BLACK HILLS VA HEALTHCARE SYSTEM
ELECTRONIC HEALTH RECORD MODERNIZATION (EHRM)
INFRASTRUCTURE UPGRADES - FORT MEADE, SD
PROJECT NO.: 568-21-701
CONTRACT NO.: 36C77621C0078
100% CONSTRUCTION DOCUMENTS SUBMITTAL

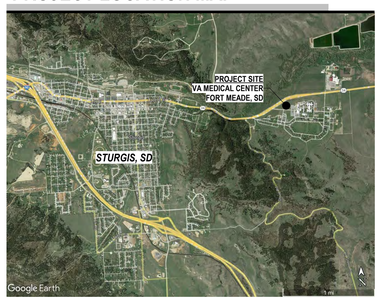
BLACK HILLS VA HEALTHCARE SYSTEM
BLACK HILLS NETWORK ##
113 COMANCHE ROAD | FORT MEADE, SD 57741

VOLUME 1

- CIVIL
- STRUCTURAL
- ARCHITECTURAL
- MECHANICAL

THE A/E HAS PARTITIONED THE DRAWINGS INTO SECTIONS. THE PRIME CONTRACTOR IS TO PROVIDE COORDINATION AMONG THE TRADES AND DRAWING SECTIONS TO ENSURE ALL MATERIALS, LABOR, EQUIPMENT, AND OTHER SERVICES ARE PROVIDED TO FULFILL THE ENTIRE CONTRACT. FOR EXAMPLE, DOOR HARDWARE REQUIRES ELECTRICAL, ARCHITECTURAL, AND FIRE PROTECTION SECTION REVIEW. PROVIDE A WORKING OUTCOME FOR ALL MULTI-DISCIPLINARY DEFINABLE FEATURES OF WORK.

PROJECT LOCATION MAP



PROJECT KEY PLAN

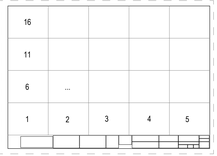
BLACK HILLS VA HEALTHCARE SYSTEM
BLACK HILLS NETWORK ##
113 COMANCHE ROAD | FORT MEADE, SD 57741

ARCHITECTURAL ABBREVIATIONS

AB	ANCHOR BOLT	E	EAST			QT	QUARRY TILE		
ABV	ABOVE	EA	EACH	ID	INSIDE DIAMETER	QTR	QUARTER	UL	UNDERWRITERS LABORATORY
A/C	AIR CONDITIONING	EC	EXISTING COLUMN	INFO	INFORMATION	QTY	QUANTITY	UNO	UNLESS NOTED OTHERWISE
ACT	ACOUSTICAL CEILING TILE	EJ	EXPANSION JOINT	ISO	ISOCYANURATE	R	RADIUS		
ADDL	ADDITIONAL	ELEC	ELECTRICAL	INSUL	INSULATE / INSULATED / INSULATION	RA	RETURN AIR	VB	VINYL BASE
ADJ	ADJUSTABLE	EL	ELEVATION	INT	INTERIOR	RB	RUBBER BASE	VCT	VINYL COMPOSITION TILE
AFF	ABOVE FINISH FLOOR	ELEV	ELEVATOR	INV	INVERT	RD	ROOF DRAIN	VERT	VERTICAL
ALT	ALTERNATE	EQ	EQUAL			RECY	RECYCLE(D)	VEST	VESTIBULE
ALUM	ALUMINUM	EQUIP	EQUIPMENT	JT	JOINT	REF	REFERENCE	VIF	VERIFY IN FIELD
ARCH	ARCHITECT(URAL)	EWC	ELECTRIC WATER COOLER	J-BOX	JUNCTION BOX	REFRIG	REFRIGERATOR	VP	VENEER PLASTER
AWN	AWNING	EXH	EXHAUST	KIT	KITCHEN	OR	REFRIGERATION	VR	VAPOR RETARDER
		EXIST	EXISTING			REINF	REINFORCE	VT	VINYL TILE
B/	BOTTOM OF	EXP	EXPANSION OR EXPOSED	L	LONG / LENGTH	REQD	REQUIRED	VWC	VINYL WALL COVERING
BD	BOARD	EXT	EXTERIOR	LAM	LAMINATE(D)	RM	ROOM		
BLDG	BUILDING			LAV	LAVATORY	RO	ROUGH OPENING	W	WIDE OR WEST
BLKG	BLOCKING	FACP	FIRE ALARM CONTROL PANEL	LF	LINEAR FEET	ROW	RIGHT OF WAY	W/	WITH
BM	BEAM OR BENCHMARK	FD	FLOOR DRAIN	LT	LIGHT	S	SOUTH	WC	WATER CLOSET
BRG	BEARING	FE	FIRE EXTINGUISHER	MAS	MASONRY	SC	SOLID CORE	WD	WOOD
BTWN	BETWEEN	FEC	FIRE EXTINGUISHER CABINET	MATL	MATERIAL	SCH	SCHEDULE	WDW	WINDOW
BUR	BUILT-UP ROOF	F.F.	FINISH FLOOR	MAX	MAXIMUM	SCHED	SCHEDULED	WG	WALL GUARD
CAB	CABINET	FIN	FINISH	MECH	MECHANIC(AL)	SECT	SECTION	WH	WATER HEATER
CJ	CONTROL JOINT	FIXT	FIXTURE	MEZZ	MEZZANINE	SF	SQUARE FEET	W/IN	WITHIN
CL	CENTERLINE	FLR	FLOOR	MFR	MANUFACTURER	SFRM	SPRAY APPLIED FIRE RESISTIVE	W/O	WITHOUT
CLG	CEILING	FND	FOUNDATION	MH	MANHOLE		MATERIAL	WP	WATERPROOF
CMU	CONCRETE MASONRY UNIT	FP	FIRE PROTECTION	MIN	MINIMUM	SGL	SINGLE	WR	WATER RESISTANT
CO	CLEAN OUT	FR	FRAME	MISC	MISCELLANEOUS	SHT	SHEET	WT	WEIGHT
COL	COLUMN	FRMG	FRAMING	MO	MASONRY OPENING	SHTG	SHEATHING	WWF	WELDED WIRE FABRIC
CONC	CONCRETE	FT	FEET/FOOT OR FIRE TREATED	MTL	METAL	SIM	SIMILAR		
CONT	CONTINUOUS	FTG	FOOTING	N	NORTH	SPECS	SPECIFICATIONS	#	NUMBER OR POUND
CONST	CONSTRUCTION	FTNG	FOOTING	NIC	NOT IN CONTRACT	SOD	SLAB ON DECK	@	AT
CG	CORNER GUARD	FRP	FIBERGLASS REINFORCED PANEL	NOM	NOMINAL	SOG	SLAB ON GRADE		
CPT	CARPET	FRT	FIRE RETARDANT TREATED	NTS	NOT TO SCALE	SOH	SAME OPPOSITE HAND		
CSMT	CASEMENT			OC	ON CENTER	SS	STAINLESS STEEL		
CT	CERAMIC TILE	GA	GAUGE	OD	OUTSIDE DIAMETER OR OVERFLOW DRAIN	ST	STONE TILE		
		GALV	GALVANIZED	OPNG	OPENING	STD	STANDARD		
D	DEEP	GB	GYPSUM BOARD	OPP	OPPOSITE	STND	STANDARD		
DF	DRINKING FOUNTAIN	GC	GENERAL CONTRACTOR	OSB	ORIENTED STRAND BOARD	STL	STEEL		
DH	DOUBLE HUNG	GL	GLASS, GLAZING	OVHD	OVERHEAD	STRUCT	STRUCTURAL		
DIM(S)	DIMENSIONS	GWB	GYPSUM WALL BOARD			TEMP	TEMPERED		
DISP	DISPENSER	GYP	GYPSUM	PL	PLATE	THK	THICK		
DN	DOWN			PLAM	PLASTIC LAMINATE	THRESH	THRESHOLD		
DR	DOOR	HC	HANDICAP	PLUMB	PLUMBING	T.O.	TOP OF		
DS	DOWNSPOUT	HDR	HEADER	PLYWD	PLYWOOD	TOBM	TOP OF BEAM		
DTL	DETAIL	HDW	HARDWARE	PNL	PANEL	T.O.BM.	TOP OF BEAM		
DWG	DRAWING	HM	HOLLOW METAL	PNT	PAINT	T.O.P	TOP OF PLATE		
		HORIZ	HORIZONTAL	POLY	POLYESTER OR POLYOLEFIN	T.O.S.	TOP OF STEEL		
		HR	HOUR	PSF	POUNDS PER SQUARE FOOT	T/	TOP OF		
		HT	HEIGHT	PSI	POUNDS PER SQUARE INCH	T&G	TONGUE AND GROOVE		
		HTD	HEATED	PT	PRESSURE TREATED OR	TEL	TELEPHONE		
		HVAC & AIR	HEATING/VENTILATION CONDITIONING	POINT		THK	THICK		
				PVMT	PAVEMENT	TRANS	TRANSOM		
						TV	TELEVISION		
						TYP	TYPICAL		

EXPLANATION OF SYMBOLS

TYPICAL SHEET VIEW NUMBERING LAYOUT



ARCH E1 (30"x42")
NUMBERING STARTS IN BOTTOM LEFT CORNER, MOVING UPWARDS, SKIPPING NONE

GENERAL PROJECT NOTES

1. THE CONTRACTOR SHALL CAREFULLY EXAMINE THE DRAWINGS AND SPECIFICATION AND RELATED CONTRACT DOCUMENTS, VISIT SITE OF WORK, AND RESEARCH ALL EXISTING CONDITIONS, FACILITIES, RESTRICTIONS AND OTHER MATTERS WHICH CAN AFFECT THE WORK, IN TIMELINE, QUALITY OR COST, THEREOF; FAILURE OR OMISSION OF ANY CONTRACTOR TO VISIT THE SITE AND ACQUAINT THEMSELVES WITH THE EXISTING CONDITIONS, SHALL IN NO WAY RELIEVE THEM FROM ANY OBLIGATION WITH RESPECT TO THEIR CONTRACT AND NO EXTRA TIME OR COMPENSATION WILL BE ALLOWED BY REASON OF ANY THING OR MATTER CONCERNING WHICH THE CONTRACTOR COULD HAVE FULLY INFORMED THEMSELVES PRIOR TO BIDDING. GENERAL CONTRACTOR SHALL COORDINATE ALL ASPECTS OF THE BUILDING CONSTRUCTION.
2. THE CONTRACTOR SHALL NOT CONSIDER CONSTRUCTION NOTES TO BE ALL-INCLUSIVE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSPECT AND ASSESS EACH AREA AND TO FULFILL THE INTENT OF THE CONTRACT DOCUMENTS. CONTRACTOR SHALL COORDINATE ARCHITECTURAL CONSTRUCTION DRAWING AND NOTES WITH CIVIL, STRUCTURAL AND MECHANICAL, ELECTRICAL & PLUMBING NOTES AND DRAWINGS.
3. THE DRAWINGS SHALL BE WORKED IN CONJUNCTION WITH THE TECHNICAL SPECIFICATIONS AND CONDITIONS OF THE PROJECT INCLUDED IN THE PROJECT MANUAL WHICH FORM A PART OF THE CONTRACT DOCUMENTS AND CONTAINS ADDITIONAL INFORMATION REQUIRED TO CONSTRUCT THE WORK OF THIS CONTRACT. IN THE EVENT OF A CONFLICT BETWEEN THE DRAWINGS AND THE SPECIFICATION NOTIFY THE COR FOR CLARIFICATION SEVEN DAYS BEFORE BEGINNING WORK ON THE AFFECTED ACTIVITIES.
4. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO THE START OF THE WORK. NOTIFY THE COR OF ANY SIGNIFICANT CHANGES IN DIMENSIONS OR CONDITIONS.
5. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS, TOOLS, EQUIPMENT AND NECESSARY FACILITIES, AND PERFORM ALL LABOR AND SERVICES OF EVERY DESCRIPTION AS REQUIRED TO COMPLETE THE SCOPE OF WORK DEFINED ON THE DRAWINGS AND SPECIFICATIONS WITHIN THE AGREED TIMELINES.
6. THE CONTRACTOR SHALL ARRANGE FOR AND OBTAIN ALL VA ISSUED PERMITS (HOTWORK, ICRA, WEEKENDS, HOLIDAYS, SHUTDOWN, ETC), CERTIFICATES, INSPECTIONS, DEPARTMENT APPROVAL, ETC. FOR WORK PERFORMED UNDER THIS CONTRACT. PROVIDE COPIES OF ALL REQUIRED PERMITS, CERTIFICATES, INSPECTIONS AND AGENCY APPROVALS TO THE COR PRIOR TO THE COMMENCEMENT OF THE SCOPE.
7. FABRICATE AND INSTALL ALL WORK IN STRICT ACCORDANCE WITH THE SPECIFICATIONS, ALL APPLICABLE STATE AND LOCAL CODES, AND THE GENERAL AND SUPPLEMENTARY CONDITIONS OF THE CONTRACT.
8. U.L. ASSEMBLIES DESCRIBED ARE FOR REFERENCE ONLY. THE GENERAL CONTRACTOR SHALL COORDINATE AND VERIFY THE INSTALLATION OF THE DESCRIBED SYSTEM(S) .
9. ALL CONTRACTORS AND SUBCONTRACTORS SHALL BE SOLELY RESPONSIBLE FOR THE PROPER PERFORMANCE OF THEIR WORK, COORDINATING WITH OTHER TRADES, MEANS AND METHODS OF CONSTRUCTION, SAFETY AND SECURITY ON SITE.
10. CUTTING AND PATCHING SHALL BE PERFORMED BY EACH TRADE AS NECESSARY FOR THE PERFORMANCE AND INSTALLATION OF THE WORK. CUTTING AND PATCHING SHALL BE PERFORMED IN A WORKMANLIKE MANNER CONSISTENT WITH INDUSTRY STANDARDS FOR FINISHES AND SUBSTRATES AFFECTED.
11. THE CONTRACTOR SHALL PROTECT THE FACILITY FROM WEATHER AND MAINTAIN SECURITY DURING ALL CONSTRUCTION WORK.
12. PROTECT EXISTING PROPERTY DURING CONSTRUCTION. REPAIR OR REPLACE AT THE DISCRETION AND TO THE SATISFACTION OF THE C.O.R., WITHOUT ADDITIONAL CHARGE TO THE OWNER, ANY EXISTING WORK DAMAGED DURING THE COURSE OF CONSTRUCTION.
13. THE WORK SHALL BE COORDINATED IN GOOD FAITH WITH THE COR AND ALL GOVERNMENT EMPLOYEES 14 DAYS IN ADVANCE OF BEGINNING EACH CONSTRUCTION ACTIVITY.
14. UNLESS ITEMS OF MATERIAL, EQUIPMENT OR WORK ARE SPECIFICALLY NOTED TO BE PROVIDED OR FURNISHED BY OTHERS, THEY SHALL BE PROVIDED UNDER THIS CONTRACT BY THE CONTRACTOR.
15. ALL WORK SHALL BE PERFORMED BY SKILLED WORKERS IN A WORKMANLIKE AND PROFESSIONAL MANNER CONSISTENT WITH INDUSTRY STANDARDS AND/OR AS DIRECTED BY THE C.O.R..
16. THE CONTRACTOR SHALL LEAVE THE SITE AND ALL BUILDINGS AND STRUCTURES IN PROPER WORKING ORDER AND SHALL, WITHOUT ADDITIONAL CHARGE, REPLACE ANY WORK, MATERIALS, OR EQUIPMENT FURNISHED AND INSTALLED UNDER THE CONTRACT WHICH DEVELOPS DEFECTS, DUE TO A POSSIBLE WORKMANSHIP ISSUE, WITHIN ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER. THIS IS NOT TO LIMIT OR EXCLUDE ANY OTHER WARRANTY OR WARRANTY PERIOD OTHERWISE DESCRIBED.
17. CONTRACTOR SHALL SCHEDULE, COORDINATE, AND FACILITATE ALL POWER, WATER, OR TELECOMMUNICATIONS OUTAGES AND SHUTDOWNS. ALL OUTAGES AND SHUTDOWNS MUST BE SCHEDULED WITH THE COR ONE (1) WEEK PRIOR TO OUTAGE.
18. FIELD VERIFY ALL EXISTING CONDITIONS INCLUDING BUT NOT LIMITED TO REGULATED MATERIALS ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, EQUIPMENT, AND ALL OTHER EXISTING SYSTEMS. MAKE NECESSARY PROVISIONS TO MAINTAIN THE INTEGRITY OF SAID SYSTEMS PRIOR TO THE COMMENCEMENT OF DEMOLITION, IF ANY. SEE MECHANICAL, ELECTRICAL, TELECOMMUNICATIONS, AND ARCHITECTURAL DRAWINGS FOR ANY SYSTEM OR PORTIONS THEREOF TO BE REMOVED, RELOCATED, REVISED OR ABANDONED.
19. ANY CONSTRUCTION INSTALLED IN CONFLICT WITH THE CONTRACT DOCUMENTS SHALL BE CORRECTED AT NO EXPENSE TO THE OWNER.
20. ALL REQUIRED EXITS FROM OCCUPIED PORTIONS OF THE BUILDING MUST BE MAINTAINED AT ALL TIMES. ESTABLISH PROCEDURES TO MINIMIZE CIRCULATION OF CONSTRUCTION PERSONNEL AND MATERIALS THROUGH OCCUPIED PORTIONS OF THE BUILDING. KEEP ALL AREAS ADJACENT TO THE WORK AREA CLEAN.
21. PRIOR TO DELIVERY OF MATERIALS TO THE CONSTRUCTION ZONE AND REMOVAL OF WASTE FROM THE SITE, VERIFY WITH THE COR FOR AN ACCEPTABLE ACCESS ROUTE AND TIME. UNDER NO CIRCUMSTANCES SHALL ANY AREA OUTSIDE THE CONSTRUCTION ZONE BE USED WITHOUT PRIOR APPROVAL FROM THE COR. ALL BUILDING INTERIOR STAGING AREAS SHALL BE PROTECTED WITH FIRE RESISTANT PLYWOOD ENCLOSURES. ALL TRASH SHALL BE REMOVED FROM THE BUILDING DAILY. CONSTRUCTION MATERIALS SHALL NOT BE STORED IN CORRIDORS OR ANY OTHER UNAUTHORIZED LOCATION AT ANY TIME.
22. FIELD VERIFY ALL EXISTING DIMENSIONS, SERVICES, AND POINTS OF CONNECTION PRIOR TO START OF WORK.
23. THE DESIGN ADEQUACY, SAFETY, AND ERECTION OF BRACING, SHORING, SCAFFOLDING, AND TEMPORARY SUPPORTS AND RESTRAINS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
24. NOTIFY THE FACILITY OF TIMES WHEN THE CONSTRUCTION NOISE WILL BE IN EXCESS OF 80 DB. RESCHEDULE SUCH WORK IF SO REQUIRED BY THE FACILITY.
25. NOTIFY THE COR OF ANY DISCREPANCIES DISCOVERED IN THE FIELD THAT REQUIRE CORRECTIVE ACTION PRIOR TO TAKING ANY ACTION.
26. FOR EXISTING FLOORS, CEILINGS, PARTITIONS, AND SERVICES TO REMAIN, PROTECT ALL FINISHES AND MATERIALS, AND REPAIR OR REPLACE ALL ITEMS THAT ARE DAMAGED OR SOILED DURING THE COURSE OF CONSTRUCTION. ALL FINISHES AND MATERIALS SHALL BE PROPERLY INTEGRATED TO INSTITUTE A UNIFORM APPEARANCE AND SEAMLESS TRANSITION.
27. ALL ITEMS TO BE REMOVED AND REPLACED SHALL BE HANDLED WITH PROPER CARE AND STORED IN SUCH A MANNER AS TO PREVENT DAMAGE; WHEN DAMAGED, REPLACE AT NO EXPENSE TO THE OWNER.
28. ALL EQUIPMENT AND PIPING SHALL BE SUPPORTED OR BRACED IN ACCORDANCE WITH PROVISIONS OF THE TECHNICAL SPECIFICATIONS.
29. ALL DRAWINGS, THOUGH NOTED TO SCALE, ARE FOR ILLUSTRATION ONLY. DO NOT SCALE THE DRAWINGS. FIELD VERIFY ALL DIMENSIONS. ITEMS WRONGLY LOCATED BY DRAWINGS SCALING SHALL BE CORRECTED.
30. SIGNAGE CONSTRUCTION, FONT AND SIZE SHALL BE CONSISTENT WITH THE FACILITY'S EXISTING SIGNAGE SYSTEMS. REFER TO SPECIFICATIONS FOR CODE REQUIRED SIGNAGE. PROVIDE ADDITIONAL SIGNAGE AS MAY BE REQUIRED BY REQUEST OF THE FIRE MARSHAL AND/OR BUILDING CODE OFFICIAL OR C.O.R..
31. EXERCISE CARE DURING CONSTRUCTION TO MINIMIZE DISRUPTION OF THE MEDICAL CENTER ROUTINE, COORDINATE SEQUENCE OF WORK AND PHASING WITH THE COR TO MINIMIZE DISRUPTION OF THE MEDICAL CENTER. MANY OF THE WORK ITEMS REQUIRE THE WORK TO BE PERFORMED ONLY AT NIGHT, WEEKENDS, OR HOLIDAYS WITH PRIOR APPROVAL OF THE C.O.R. AT NO ADDITIONAL COST TO THE GOVERNMENT.
32. PRIOR TO DRILLING OR CORING EXISTING CONCRETE, CONTRACTOR SHALL LOCATE EXISTING REINFORCEMENT TO MAINTAIN ADEQUATE CLEARANCES FROM AND AVOID DAMAGE TO EXISTING REINFORCEMENT. CONTRACTOR SHALL USE NON-DESTRUCTIVE TESTING (NDT) TO LOCATE REINFORCEMENT. WHENEVER FEASIBLE, CONTRACTOR SHALL USE GROUND PENETRATING RADAR (GPR) OR MEANS OTHER THAN X-RAY. WHERE X-RAY IS REQUIRED, CONTRACTOR SHALL PROVIDE WRITTEN REQUEST AT LEAST THREE (3) WEEKS PRIOR TO EVENT: WORK MAY BE REQUIRED TO BE PERFORMED OUTSIDE NORMAL WORK HOURS AND SHALL BE DOCUMENTED ON THE THREE (3) WEEK LOOK-AHEAD SCHEDULE.
33. PROTECT EXISTING FIRE SUPPRESSION SYSTEMS DURING CONSTRUCTION.
34. IN THE EVENT THE CONTRACTOR DISCOVERS HAZARDOUS MATERIALS WHICH ARE NOT AVOIDABLE BY REROUTING THE WORK AND HAVE NOT BEEN DESCRIBED IN THE CONTRACT, THE CONTRACTOR IS TO NOTIFY THE COR AND THE A/E FOR DIFFERING SITE CONDITION ACKNOWLEDGEMENT. REMEDIATION WOULD BE COMPENSATED BY ADDITIONAL MONEY AND ADDITIONAL TIME FOR CRITICAL PATH ACTIVITIES.
35. CONTRACTOR SHALL PROVIDE STAFF THAT WILL UNDERGO TRAINING AND CERTIFICATION TO ALLOW UN-ESCORTED ACCESS TO IT CLOSETS. THE CONTRACTOR SHALL CERTIFY SUFFICIENT NUMBER OF STAFF TO ACCOMMODATE PROPOSED SCHEDULE WITHOUT RELYING ON VA STAFF TO ACCOMPANY AS ESCORTS. THIS WILL REQUIRE PIV BADGING REQUIREMENT INCLUDING BACKGROUND INVESTIGATIONS. SEE "CONTRACTOR BACKGROUND INVESTIGATIONS REQUEST" FORM. COORDINATE WITH CO/CS REGARDING SUBMITTING THE FORM.
36. CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND COORDINATING ANY REQUIRED THIRD PART INSPECTORS.
37. CONTRACTOR TO PAINT ANY EXISTING SPRINKLER PIPING LEFT EXPOSED BY CEILING REMOVAL & PAINT ANY NEW SPRINKLER PIPING EXPOSED IN FINISHED AREAS WITHOUT CEILINGS. PAINT COLOR TO BE RED.

PROJECT DESCRIPTION

THE SCOPE OF THIS PROJECT INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING INFRASTRUCTURE IMPROVEMENTS: ELECTRICAL (ELECTRICAL PANEL UPGRADE, POWER [NORMAL, EMERGENCY]), BONDING, UPS, BUILDING MANAGEMENT SYSTEM INTERFACES, ASSESS FOR NEW AND UPGRADES TO EXISTING HVAC, RECONFIGURATION, EXPANSION AND RENOVATION OF EXISTING SPACE (DEMO, NEW CONSTRUCTION, FINISHES), COMMUNICATION INFRASTRUCTURE (NEW DATA OUTLETS, PATCH PANELS, UPGRADE TO CAT 6A CABLE) IN BUILDINGS AS NECESSARY, PHYSICAL SECURITY UPGRADES, ASSESS AND UPGRADE FIBER INFRASTRUCTURE BACKBONE CAMPUS WIDE WITHIN BUILDINGS AND BETWEEN BUILDINGS, HAZARDOUS MATERIAL ABATEMENT. PROJECT BUILDING LOCATION INCLUDE: BUILDINGS 40, 46, 48, 50, 53, 88, 89, 90, 103, 110, 113, 137, 144, 145, 146, 147, 148, T171, AND T296.

BASIC DEFINITIONS

"OWNER": THE OWNER IS UNITED STATES GOVERNMENT - DEPARTMENT OF VETERANS AFFAIRS AND IS REFERRED TO THROUGHOUT THE CONTACT DOCUMENTS AS IF SINGULAR IN NUMBER. THE TERM "OWNER" MEANS THE OWNER OR THE OWNER'S CONTRACTING OFFICER'S AUTHORIZED REPRESENTATIVE.

"CONTRACTING OFFICER" OR "C.O.": THE OWNER'S AUTHORIZED REPRESENTATIVE RESPONSIBLE FOR ADMINISTRATING THE CONTRACT BETWEEN THE GENERAL CONTRACTOR AND OWNER. THE TERM INCLUDES CERTAIN AUTHORIZED REPRESENTATIVES OF THE CONTRACTING OFFICER ACTING WITHIN THE LIMITS OF THEIR AUTHORITY AS DELEGATED BY THE CONTRACTING OFFICER.

"WORK": THE TERM "WORK" MEANS THE CONSTRUCTION AND SERVICES REQUIRED BY THE CONTRACT DOCUMENTS, WHETHER COMPLETED OR PARTIALLY COMPLETED, AND INCLUDES ALL OTHER LABOR, MATERIALS, EQUIPMENT AND SERVICES PROVIDED BY THE CONTRACTOR TO FULFILL THE CONTRACTOR'S OBLIGATIONS. THE WORK MAY CONSTITUTE THE WHOLE OR A PART OF THE PROJECT.

"PROJECT": THE TOTAL CONSTRUCTION OF WHICH THE WORK PERFORMED UNDER THE CONTRACT DOCUMENTS

"DRAWINGS", "SHOP DRAWINGS", OR "PLANS": THE GRAPHIC AND PICTORIAL PORTIONS OF CONTRACT DOCUMENTS, WHENEVER LOCATED AND WHEREVER ISSUED, SHOWING DESIGN, LOCATION AND DIMENSIONS OF THE WORK, GENERALLY INCLUDING PLANS, ELEVATIONS, SECTIONS, DETAILS, SCHEDULES AND DIAGRAMS.

"PROJECT SUPERVISOR" OR "SUPERVISOR": MEANS THE ON-SITE SUPERVISION REPRESENTATIVE OF THE PROJECT.

"ARCHITECT" OR "ENGINEER": MEANS THE VA'S ARCHITECTS, ENGINEERS AND OTHER DESIGN AND ENGINEERS PROFESSIONALS FOR THIS PROJECT, AND REFERRED THROUGHOUT THE DRAWINGS AS IF SINGULAR IN NUMBER.

"TRADE CONTRACTOR" OR "CONTRACTORS": MEANS THE ENTITY UNDER CONTRACT AGREEMENT WITH THE GENERAL CONTRACTOR TO PROVIDE THE SPECIFIED GENERAL AND OR SPECIALTY WORK IN CONNECTION WITH THIS PROJECT.

"FURNISHED" OR "FURNISHED": MEANS PROVIDING ALL MATERIALS, SHOP DRAWINGS, TRANSPORTATION INSURANCE, FIELD MEASUREMENTS,EXPEDITING, SHIPPING, HANDLING, PACKAGING, STORAGE, TOUCH-UP MATERIALS, OWNER'S MANUALS, TRAINING AND ANY OTHER ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION.

"INSTALL" OR "INSTALLED": MEANS COMPLETING ALL WORK AND COSTS ASSOCIATED WITH UNLOADING, UNPACKING, HOISTING, STORAGE, HANGERS, SUPPORTS, SLEEVES, SCAFFOLDING, COORDINATION, LAYOUT, SHOP DRAWINGS, EXCAVATION, BACKFILL, DEWATERING, INSTALLATION, CUTTING AND PATCHING, FIRESTOPPING, CLEAN-UP, INSPECTION, DOCUMENTATION, PROTECTION OF SCOPE OF WORK AND ALL ACCESSORIES, SERVICE AND FACILITIES REQUIRED FOR A COMPLETE INSTALLATION.

"PROVIDE" OR "PROVIDED": MEANS TO FURNISH AND INSTALL AND SHALL INCLUDE, WITHOUT LIMITATION, ALL LABOR, MATERIALS, EQUIPMENTS, TRANSPORTATION SERVICES, AND OTHER ITEMS REQUIRED TO COMPLETE THE REFERENCED TASK.

"BY OWNER", "BY VAMC" OR "BY VA": MEANS ITEMS WILL BE ORDERED, PAID FOR, SHIPPED TO THE JOB SITE AND INSTALLED BY THE OWNER.

"NOT IN CONTRACT" OR "N.I.C.": MEANS MATERIALS OR EQUIPMENT NOT IN THE CONTRACT, BUT MAY REQUIRE PROVISIONS IN THE CONSTRUCTION FOR FUTURE INSTALLATION AS SPECIFIC OR SHOWN.

OTHER DEFINITIONS OF WORDS AND TERMS USED IN THE DRAWINGS AND SPECIFICATIONS CAN BE FOUND IN THE LEGENDS AND SYMBOLS DRAWINGS FOR EACH DISCIPLINE AND IN DIVISIONS 0 AND 1 OF THE PROJECT MANUAL.

TEMPORARY FIRE & SMOKE PROTECTION

IF MULTIPLE CEILING TILES MUST BE REMOVED AND CANNOT BE REPLACED AT THE END OF THE WORK SHIFT, A 1-HOUR FIRE BARRIER WILL NEED TO BE CONSTRUCTED. IF CONTRACTOR IDENTIFIES UPCOMING WORK RESULTING IN A LONG-TERM CEILING REMOVAL, NOTIFY THE COR IMMEDIATELY WHETHER A RATED ENCLOSURE MUST BE CONSTRUCTION OR TEMPORARY UPRIGHT SPRINKLER HEADS INSTALLED. THIS WORK IS TO BE PART OF THE SUBMITTED SCOPE OF WORK.

IF FLOOR OR RATED WALL PENETRATIONS CANNOT BE FIRESTOPPED AT THE END OF THE WORK SHIFT DUE TO THE NEED TO PULL ADDITIONAL CABLES, TEMPORARY FIRESTOPPING COMPOSED OF MINERAL WOOL SHOULD BE INSTALLED IN THE PENETRATION TO PROVIDE PROTECTION AGAINST FIRE/SMOKE SPREAD THROUGH THE UNSEALED PENETRATION.

WHERE EXISTING CEILINGS ARE TEMPORARILY REMOVED FOR LONGER THAN ONE WORKING SHIFT, PROVIDE TEMPORARY UPRIGHT SPRINKLER HEADS.
WHERE EXISTING CEILINGS ARE PERMANENTLY REMOVED, COORDINATE INSTALLATION OF UPRIGHT HEADS WITHIN ONE WORKING SHIFT TO AVOID LOSS OF SPRINKLER PROTECTION.

PROJECT TEAM

OWNER
BLACK HILLS VA HEALTHCARE SYSTEM
FORT MEADE VAMC
113 COMANCHE ROAD
FORT MEADE, SD 57741

ARCHITECT
A&E ARCHITECTS
124 NORTH 29th STREET, SUITE 100
BILLINGS, MT 59101
406.248.2633

TELECOMMUNICATIONS
GDM - PUGET SOUND DISTRICT OFFICE
4317 6th AVE SE, SUITE 300
LACEY, WA 98503
360.318.7095

STRUCTURAL
GDM - VANCOUVER DISTRICT OFFICE
1308 NW 134TH STREET, SUITE A
VANCOUVER, WA 98685
541.436.4723

FIRE PROTECTION ENGINEER
GDM - VANCOUVER DISTRICT OFFICE
1308 NW 134TH STREET, SUITE A
VANCOUVER, WA 98685
541.436.4723

ENGINEER, PROJECT LEAD
GDM - PUGET SOUND DISTRICT OFFICE
4317 6th AVE SE, SUITE 300
LACEY, WA 98503
360.318.7095

MECHANICAL ENGINEER
GDM - PUGET SOUND DISTRICT OFFICE
4317 6th AVE SE, SUITE 300
LACEY, WA 98503
360.318.7095

ELECTRICAL ENGINEER
GDM - VANCOUVER DISTRICT OFFICE
1308 NW 134TH STREET, SUITE A
VANCOUVER, WA 98685
541.436.4723

CIVIL ENGINEER
GDM - VANCOUVER DISTRICT OFFICE
1308 NW 134TH STREET, SUITE A
VANCOUVER, WA 98685
541.436.4723

INDUSTRIAL HYGIENE
GDM - ARCTIC DISTRICT OFFICE
1401 W 34TH AVE, SUITE 200
ANCHORAGE, ALASKA 99503
907.917.2957

Revisions:	Date:

CONSULTANT
ARCHITECT
A&E DESIGN
124 NORTH 29TH STREET, #100
BILLINGS, MONTANA 59101
406.248.2633
PAUL SIDERIUS, AIA
https://www.ae.design/

ARCHITECT/ENGINEER OF RECORD
A/E:
GDM of Oregon
1308 NE 134th St., Suite A
VANCOUVER, WA 98685
P: 541.426.4723
ADAM GODDIN, PE
WWW.GDM-AE.COM

STAMP
STATE OF MONTANA · BILLINGS · ERIC ARCHIBALD HIRST · 23093 · REGISTERED ARCHITECT

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT
VA U.S. Department of Veterans Affairs

DRAWING TITLE
COVER AND PROJECT GENERAL INFORMATION - VOLUME 1

PHASE
100% CONSTRUCTION DOCUMENTS

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PROJECT TITLE
EHRM INFRASTRUCTURE UPGRADES

LOCATION
FORT MEADE, SOUTH DAKOTA

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DRAWING INDEX

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ELECTRICAL (*Continued*)

145-EJ-001	BUILDING 145 ELECTRICAL ONE-LINE DIAGRAM
145-EJ-002	BUILDING 145 ELECTRICAL ONE-LINE DIAGRAM
145-EJ-003	BUILDING 145 ELECTRICAL PANEL SCHEDULES
145-EJ-004	BUILDING 145 ELECTRICAL PANEL SCHEDULES
146-EJ-001	BUILDING 146 ELECTRICAL ONE-LINE DIAGRAM & PANEL SCHED
147-EJ-001	BUILDING 145 ELECTRICAL ONE-LINE DIAGRAM & PANEL SCHED
148-EJ-001	BUILDING 148 ELECTRICAL ONE-LINE DIAGRAM & PANEL SCHED
T171-EJ-001	BUILDING T171 ELECTRICAL ONE-LINE DIAGRAM & PANEL SCHED
T296-EJ-001	BUILDING T296 ELECTRICAL ONE-LINE DIAGRAM & PANEL SCHED

FIRE PROTECTION

SHEET NO.	SHEET NAME
00-FP-001	FIRE PROTECTION GENERAL GDM NOTES, DIAGRAM, AND LEGEND
00-FP-002	FIRE EXTINGUISHER SIGNAGE REQUIREMENTS
MCR-FP-101	MCR FIRE ALARM FLOOR PLAN
MCR-FP-102	FIRE BARRIER PLAN – MCR
MCR-FP-103	FIRE SPRINKLER HAZARD CLASSIFICATION PLAN – MCR
MCR-FP-104	CLEAN AGENT PLAN - MCR
MCR-FP-105	HYDRANT FLOW TEST INFORMATION

FLOOR PLAN NOTES

1. REFER TO STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. ALL INFORMATION REGARDING EXISTING CONDITIONS IS BASED UPON OWNER-SUPPLIED DOCUMENTS AND MAY NOT PRECISELY REFLECT FIELD CONDITIONS.
2. PROVIDE ALL BACKING FOR MILLWORK, GRAB BARS, AND ANY AND ALL WALL MOUNTED EQUIPMENT OR ACCESSORIES; COORDINATE LOCATIONS.
3. ALL DIMENSIONS ARE FROM STRUCTURAL OR UNFINISHED FACE OF STUD, UNLESS OTHERWISE NOTED.
4. PROVIDE A SMOOTH AND LEVEL FINISH FLOOR, TYP PATCH AND REPAIR ALL INCONSISTENCIES IN FLOOR ELEVATIONS.
5. PATCH AND REPAIR ANY / ALL WALL SURFACES AS REQUIRED TO PROVIDE SUITABLE SUBSTRATE FOR FINISHES.
6. REFER TO DOOR AND FRAME SCHEDULE FOR DOORS REQUIRING ADA ACCESS CONTROL.
7. PROVIDE ACOUSTICAL SEALANT AROUND WALL EDGES, TOP AND BOTTOM, AND PENETRATIONS, AND INSTALL PUTTY PADS AROUND ELECTRICAL BOXES WHERE PARTITION CONTAINS ACOUSTICAL INSULATION.
8. ALL TELECOMMUNICATION ROOMS ARE TO HAVE EXPOSED STRUCTURE UNLESS NOTED OTHERWISE, NO CEILINGS SPECIFIED.

INFECTION CONTROL NOTES

1. PRESSURE INDICATOR MUST BE AT -0.01 OR MORE NEGATIVE PRESSURE (VERIFY TWICE A DAY IN WRITING) AND SUBMIT TO C.O.R. - IF NOT, VERIFY ALL OPENINGS (SUCH AS DOORS) ARE CLOSED AND/OR CHANGE OUT NEGATIVE AIR PRE-FILTER. METER MUST READ CONTINUOUSLY.
2. CONTRACTOR SHALL DEVELOP A DAILY CHECK LIST FOR CONSTRUCTION OVERSIGHT TUNED TO THE QUALITY ASSURANCE PLAN WHICH CAPTURED MOST ERRORS. THIS MAY EVOLVE TO A LIVING DOCUMENT PENDING ISSUES ENCOUNTERED.
3. REFER TO SPEC SECTION 01 35 26 AND DEMOLITION DRAWINGS FOR ICRA REQUIREMENTS BASED ON DURATION / EXTENT OF WORK AND RISK FACTOR

HAZARDOUS MATERIALS NOTES

1

APPLICABLE CODES AND ORDINANCES

2021 NFPA 101, LIFE SAFETY CODE
2022 NFPA 13, STANDARD FOR THE INSTALL ATION OF SPRINKLER SYSTEMS
2020 NFPA 25, STANDARD FOR THE INSPECTION, TESTING, AND MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS
2020 NFPA 70, NATIONAL ELECTRICAL CODE
2022 NFPA 72, NATIONAL FIRE ALARM AND SIGNALING CODE
2020 NFPA 75, STANDARD FOR THE FIRE PROTECTION OF INFORMATION TECHNOLOGY EQUIPMENT

2021 INTERNATIONAL BUILDING CODE (IBC) WHERE NFPA 101 AND ASSOCIATED DOCUMENTS ARE SILENT
2021 INTERNATIONAL ENERGY CONSERVATION CODE
2021 INTERNATIONAL FIRE CODE (IFC), WHERE NFPA STANDARDS AND CODES ARE SILENT
2021 INTERNATIONAL MECHANICAL CODE (IMC)
2021 INTERNATIONAL FUEL GAS CODE (IFGC)
2021 UNIFORM PLUMBING CODE
2017 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES (ICC A117.1)

ENERGY CODE - BUILDING ENVELOPE

PER 2018 IECC TABLE C402.2:
MONTANA- CLIMATE ZONE XX

BUILDING ELEMENT		REQUIRED	PROVIDED
ROOFS	INSULATION ENTIRELY ABOVE DECK	R-30ci	R-30ci (MIN.)
WALLS, ABOVE GRADE	METAL FRAMED	R-13 + R-7.5ci	R-22 + R-7.5ci
WALLS, BELOW GRADE	BELOW- GRADE WALL	R-7.5ci	R-7.5ci
SLAB- ON- GRADE FLOORS	UNHEATED SLABS	R-10 FOR 24" BELOW	R-15 TO T.O. FOUNDATION
OPAQUE DOORS	SWINGING	U-0.37	U-0.37
	ROLL- UP OR SLIDING	R-4.75	R-4.75
FIXED FENESTRATION		U-0.36; SHGC-0.40	U-0.33 MIN; GLAZING SHGC 0.27 MIN
OPERABLE FENESTRATION		U-0.43; SHGC-0.40	N/A
ENTRANCE DOORS		U-0.77; SHGC-0.40	U-0.33 MIN; GLAZING SHGC 0.27 MIN

2018 INTERNATIONAL ENERGY CODE SUMMARIES AND REFERENCE SECTIONS BELOW ARE PROVIDED FOR CONVENIANCE ONLY . IT IS THE CONTRACTORS RESPONSIBILITY TO UNDERSTAND AND MEET THE REQUIREMENTS OF THE 2018 INTERNATIONAL ENERGY CODE

C402.4 AIR LEAKAGE (MANDATORY)
THE THERMAL ENVELOPE OF BUILDINGS SHALL COMPLY WITH SECTIONS C402.4.1 THROUGH C402.4.8

C402.4.1 AIR BARRIERS
A CONTINUOUS AIR BARRIER SHALL BE PROVIDED THROUGHOUT THE BUILDING THERMAL ENVELOPE.

C402.4.1.1 AIR BARRIER CONSTRUCTION
1. THE AIR BARRIER SHALL BE CONTINUOUS FOR ALL ASSEMBLIES THAT ARE THE THERMAL ENVELOP OF THE BUILDING AND ACROSS THE JOINTS AND ASSEMBLIES.
2.AIR BARRIER JOINTS AND SEAMS SHALL BE SEALED, INCLUDING SEALING TRANSITIONS IN PLACES AND CHANGES IN MATERIALS.
3. RECESSED LIGHTING FIXTURES AND OTHER SIMILAR INSTALLED OBJECTS WHICH PENETRATE THE AIR BARRIER SHALL COMPLY WITH SECTION C402.4.8
EXCEPTION: BUILDINGS THAT COMPLY WITH SECTION C402.4.1.2.3 ARE NOT REQUIRED TO COMPLY WITH ITEMS 1 AND 3

C402.4.1.2.3 BUILDING TEST
THE COMPLETED BUILDING SHALL BE TESTED AND THE AIR LEAKAGE RATE OF THE BUILDING ENVELOPE SHALL NOT EXCEED 0.40 cfm/ft² AT A PRESSURE DIFFERENTIAL OF 0.3 INCHES WATER GAUGE (2.0l/s*m² AT 75 Pa) IN ACCORDANCE WITH ASTM E779 OR AN EQUIVALENT METHOD APPROVED BY THE CODE OFFICIAL.

C402.4.2 AIR BARRIER PENETRATIONS
A CONTINUOUS AIR BARRIER SHALL BE PROVIDED THROUGHOUT THE BUILDING THERMAL ENVELOPE.

ACCESSIBILITY

SECTION 1103 SCOPING REQUIREMENTS - 1103.1 WHERE REQUIRED.
SITES, BUILDINGS, STRUCTURES, FACILITIES, ELEMENTS AND SPACES, TEMPORARY OR PERMANENT, SHALL BE ACCESSIBLE TO PERSONS WITH PHYSICAL DISABILITIES.

EXCEPTIONS:
1103.2.3 EMPLOYEE WORK AREAS. SPACES AND ELEMENTS WITHIN EMPLOYEE WORK AREAS SHALL ONLY BE REQUIRED TO COMPLY WITH SECTION 907.5.2.3.2, 1007, AND 1104.3.1 AND SHALL BE DESIGNED AND CONSTRUCTION SO THAT INDIVIDUALS WITH DISABILITIES CAN APPROACH, ENTER, AND EXIT THE WORK AREAS.

1103.2.8 LIMITED ACCESS SPACES. NONOCCUPIABLE SPACES ACCESSED ONLY BY LADDERS, CATWALKS, CRAWLSPACES, FREIGHT ELEVATORS OR VERY NARROW PASSAGEWAYS ARE NOT REQUIRED TO BE ACCESSIBLE.

1103.2.9 EQUIPMENT SPACES. SPACES FREQUENTED ONLY BY PERSONNEL FOR MAINTENANCE, REPAIR OR MONITORING OF EQUIPMENT ARE NOT REQUIRED TO BE ACCESSIBLE.

2203.2.15 WALK IN COOLERS AND FREEZERS. WALK IN COOLERS AND FREEZERS INTENDED FOR EMPLOYEE USE ONLY ARE NOT REQUIRED TO BE ACCESSIBLE.

SECTION 1104 ACCESSIBLE ROUTES - 1104.5 LOCATION.
ACCESSIBLE ROUTES SHALL COINCIDE WITH OR BE LOCATED IN THE SAME AREA AS A GENERAL CIRCULATION PATH. WHERE THE CIRCULATION PATH IS INTERIOR, THE ACCESSIBLE ROUTE SHALL ALSO BE INTERIOR. WHERE ONLY ONE ACCESSIBLE ROUTE IS PROVIDED, THE ACCESSIBLE ROUTE SHALL NOT PASS THROUGH KITCHENS, STORAGE ROOMS, RESTROOMS, CLOSETS, OR SIMILAR SPACES.

1105.1 PUBLIC ENTRANCES.
IN ADDITION TO ACCESSIBLE ENTRANCES REQUIRED BY SECTION 1105.1.1 THROUGH 1105.1.6, AT LEAST 60 PERCENT OF ALL PUBLIC ENTRANCES SHALL BE ACCESSIBLE.

EXCEPTIONS: LOADING AND SERVICE ENTRANCES THAT ARE NOT THE ONLY ENTRANCE TO A TENANT SPACE.

1105.1.6 TENANT SPACES.
AT LEAST ONE ACCESSIBLE ENTRANCE SHALL BE PROVIDED TO EACH TENANT.

SECTION 1106 PARKING AND PASSENGER LOADING FACILITIES - 1106.1 REQUIRED.
WHERE PARKING IS PROVIDED, ACCESSIBLE PARKING SPACES SHALL BE PROVIDED IN COMPLIANCE WITH TABLE 1106.1, EXCEPT AS REQUIRED BY SECTION 1106.2 THROUGH 1106.4.

1106.6 LOCATION.
ACCESSIBLE PARKING SPACES SHALL BE LOCATED ON THE SHORTEST ACCESSIBLE ROUTE OF TRAVEL FROM ADJACENT PARKING TO AN ACCESSIBLE BUILDING ENTRANCE.

SECTION 1108 SPECIAL OCCUPANCIES - 1108.2 ASSEMBLY AREA SEATING.
A BUILDING, ROOM OR SPACE USED FOR ASSEMBLY PURPOSED WITH FIXED SEATING SHALL COMPLY WITH SECTION 1108.2.1 THROUGH 1108.2.5. PER 1108.2.2.1 GENERAL SEATING. WHEELCHAIR SPACES SHALL BE PROVIDED IN ACCORDANCE WITH TABLE 1108.2.2.1.

SECTION 1110 SIGNAGE - 1110.1 SIGNS.
REQUIRED ACCESSIBLE ELEMENTS SHALL BE IDENTIFIED BY THE INTERNATIONAL SYMBOL OF ACCESSIBILITY AT THE FOLLOWING LOCATIONS: ACCESSIBLE PARKING SPACES, PASSENGER LOADING ZONES, ROOMS, ENTRANCES, CHECK-OUT AISLES, FAMILY OR ASSISTED-USE TOILET AND BATHING ROOMS, AREAS OF REFUGE, AND EXTERIOR AREAS. IN ADDITIONAL 1110.2 DIRECTIONAL SIGNAGE. DIRECTIONAL SIGNAGE INDICATING THE ROUTE TO THE NEAREST LIKE ACCESSIBLE ELEMENT SHALL BE PROVIDED AT THE FOLLOWING LOCATIONS STATED IN 1110.2 AND INCLUDE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY.

1110.4 VARIABLE MESSAGE SIGNS - TRANSPORTATION FACILITIES.
WHERE PROVIDED IN TRANSPORTATION FACILITIES, VARIABLE MESSAGE SIGNS CONVEYING TRANSPORTATION-RELATED INFORMATION SHALL COMPLY WITH SECTION 1110.4

SUSTAINABILITY NOTES

1. REPETITIVE AND/OR INTERMITTENT HIGH-LEVEL NOISE PERMITTED ONLY DURING DAYTIME. AT 50'-0" FROM THE PROJECT BOUNDARY DO NOT EXCEED 70 DB(A) FOR MORE THAN 12 MINUTES IN ANY HOUR.
2. MAXIMUM AMBIENT NOISE LEVELS (DB) FOR NOISE AREA AT PROJECT BOUNDARY: DAYLIGHT HOURS 65 DB, NON-DAYLIGHT HOURS 45 DB.
3. DEVELOP A WASTE MANAGEMENT PLAN ACCORDING TO ASTM E 1609. PLAN SHALL CONSIST OF WASTE IDENTIFICATION, WASTE REDUCTION WORK PLAN, AND COST/REVENUE ANALYSIS. DISTINGUISH BETWEEN CONSTRUCTION WASTES. INDICATE QUANTITIES BY WEIGHT OR VOLUME, BUT USE SAME UNITS OF MEASURE THROUGHOUT WASTE MANAGEMENT PLAN.
4. DEVELOP A WASTE REDUCTION WORK PLAN. IDENTIFY NON-HAZARDOUS DEMOLITION AND CONSTRUCTION WASTE GENERATED BY THE PROJECT AND WHETHER IT WILL BE SALVAGED, RECYCLED, OR DISPOSED OF IN LANDFILL. INCLUDE QUANTITY OF EACH TYPE OF WASTE, QUANTITY FOR EACH MEANS OF RECOVERY, AND HANDLING AND TRANSPORTATION PROCEDURES.
5. RECYCLED MATERIALS: DIVERT, AT A MINIMUM, 50% OF RESULTING WASTE FROM A LANDFILL THROUGH SALVAGE AND RECYCLING. SEPARATE RECYCLABLE WASTE FROM OTHER WASTE MATERIALS, TRASH, AND DEBRIS.
6. DEVELOP A CONSTRUCTION IAQ MANAGEMENT PLAN. AT A MINIMUM, SCHEDULE OF INSTALLATION OF INTERIOR FINISHES, IDENTIFY SOURCES OF ODOR AND DUST, NOTE CONSTRUCTION VENTILATION PROVIDED INCLUDING USE OF PERMANENT HVAC SYSTEMS, TYPES OF FILTRATION AND SCHEDULE FOR REPLACEMENT OF FILTERS, CLEANING AND DUST CONTROL PROCEDURES, PRODUCTS REQUIRING MOISTURE PROTECTION, AND SCHEDULE FOR INSPECTION OF STORED MATERIALS.
7. DEVELOP A TEMPORARY SEDIMENTATION CONTROL PLAN. INDICATE DEVICES, MEASURES, AND LOCATIONS FOR SEDIMENT CONTROL DEVICES, DESCRIBE CONSTRUCTION ACTIVITIES EFFECTING EROSION, DESCRIBE MONITORING AND MEASURES FOR SEDIMENT CONTROL, DESCRIBE MITIGATION AND RESPONSE TO FAILED EROSION CONTROL MEASURES.
8. LOW EMITTING MATERIALS. PAINTS, COATINGS, ADHESIVES AND SEALANTS FOR FIELD APPLICATIONS INSIDE THE WEATHER PROOFING SYSTEM SHALL COMPLY WITH VOC CONTENT LIMITS OF AUTHORITIES HAVING JURISDICTIONS OR SCAQMD RULE 1168, WHICHEVER IS STRICTER.
9. NO SMOKING. SMOKING, VAPING, AND SMOKELESS TOBACCO USE IS NOT PERMITTED WITHIN THE BUILDING, OR WITHIN 25'-0" OF ENTRANCES, OPERABLE WINDOWS, OR OUTDOOR AIR INTAKES.
10. CAST-IN-PLACE CONCRETE. PROVIDE STEEL REINFORCING MATERIALS WITH MINIMUM 25% RECYCLED CONTENT. PROVIDE AGGREGATE AND CEMENT EXTRACTED AND/OR MANUFACTURED WITHIN 500 MILES OF PROJECT SITE.
11. UNIT MASONRY. PROVIDE BRICK, BLOCK, AGGREGATE, CEMENT, MORTAR, AND LIME EXTRACTED AND/OR MANUFACTURED WITHIN 500 MILES OF PROJECT SITE.
12. STRUCTURAL STEEL, STEEL DECKING, FORMED METAL FRAMING, METAL TOILET COMPARTMENTS, AND FORMED METAL WALL AND ROOF PANELS. PROVIDE MATERIALS WITH POST-CONSUMER RECYCLED CONTENT PLUS ONE-HALF OF PRE-CONSUMER RECYCLED CONTENT NOT LESS THAN 25%.
13. ALL COMPOSITE WOOD PRODUCTS SHALL BE MANUFACTURED WITHOUT ADDED UREA FORMALDEHYDE.
14. ALUMINUM ENTRANCE AND WINDOW SYSTEMS. PROVIDE ALUMINUM MATERIALS WITH POST-CONSUMER RECYCLED CONTENT PLUS ONE-HALF OF PRE-CONSUMER RECYCLED CONTENT NOT LESS THAN 50%.
15. PROVIDE GYPSUM BOARD WALL PANELS MANUFACTURED WITHIN 500 MILES OF THE PROJECT SITE.
16. RESILIENT HARD SURFACE FLOORING MATERIALS AND THEIR ADHESIVES SHALL BE FLOORSCORE CERTIFIED.
17. PLUMBING FIXTURES SHALL BE WATERSENSE CERTIFIED.

SCHEDULE FOR FINISHES

DIVISION	MATERIAL TYPE	APPLICATION INCLUDES BUT NOT LIMITED TO	MANUFACTURER	PRODUCT STYLE / TYPE	COLOR / FINISH	DIMENSIONS	REMARKS	CONTACT	NOTE
03 CONCRETE									
3	SEALED CONCRETE	TYPICAL THROUGHOUT UNLESS OTHERWISE NOTED	SEE SPECIFICATIONS	SEE SPECIFICATIONS	SEE SPECIFICATIONS				
4	CMU		SEE SPECIFICATIONS	SEE SPECIFICATIONS	STANDARD GRAY				
4	FACE BRICK	EXTERIOR WALL INFILL & SCREEN WALLS		MATCH EXISTING TEXTRUE	MATCH EXISTING COLOR	MATCH EXISTIG DIMENSIONS	MATCH EXISTING BRICK OF RESPECTIVE BLDG		
6									
6	FIRE RETARDANT COATING	AT TR AND TE PLYWOOD WALLS, TYP	SHERWIN WILLIAMS	FIRE RETARDANT	EXTREME WHITE 500		GLOSSY SHEEN		
8	WOOD VENEER DOORS		SEE SPECIFICATIONS	SEE SPECIFICATIONS	MATCH EXISTING ADJACENT DOORS		MATCH VENEER OF EXISTING DOORS PER BLDG		
8	LOUVERS AND VENTS	AS INDICATED ON DRAWINGS	SEE SPECIFICATIONS	SEE SPECIFICATIONS	MATCH EXISTING LOUVERS & VENTS		MATCH COLOR AT EACH RESPECTIVE BUILDING		
09 FINISHES									
9	CARPET	AS INDICATED ON DRAWINGS	SHAW CONTRACT	RIDGE 5T446	RIVER ROCK 06481	9" X 36"			
9	LVT	AS INDICATED ON DRAWINGS	PATCRAFT	TREELINE 12 MIL	BARE - V2		CONFIRM COLOR MATCHES EXISTING LVT FLOORING		
9	PLASTIC PANELING (FRP)	SOILED HOLDING ROOM	MARLITE	S 100G	WHITE	ACCESSORIES TO MATCH PANEL COLOR	INSTALL PER MANUFACTURER		
9	ACOUSTICAL TILE CEILING	WHERE INDICATED	ARMSTRONG CEILINGS	CALLA PANELS WITH DYNAMAX SUSPENSION SYSTEM	2896 WHITE SQUARE LAY-IN	24" X 24";			
9	EPOXY GROUT	AT TILE-1, TYP	MAPEI	EPOXY GROUT KERAPOXY CQ	94 STRAW	MINIMIZE GROUT JOINT			
9	PLASTIC LAMINATE	AT CASEWORK CABINETS, TYP	FORMICA	PLASTIC LAMINATE	588T-58 MILLENNIUM OAK MATTE	PANEL SIZE PER APPLICATION TO MINIMIZE JOINTS	ORIENT GRAIN HORIZONTALLY		
9	PLASTIC LAMINATE	AT CASEWORK COUNTERTOPS, TYP, WITH 4" HIGH BACKSPLASH	FORMICA	PLASTIC LAMINATE	2297 TERRIL-58	PANEL SIZE PER APPLICATION TO MINIMIZE JOINTS			
9	PVC EDGEBAND	AT PLAM-1 CABINETS, TYP	DOLLKEN	PVC EDGEBAND	30900YM	1 5/16" X 3MM TH			
9	PAINT	TYPICAL THROUGHOUT	SHERWIN WILLIAMS	PROMAR 200 ZERO VOC	SW 7531 CANVAS TAN - EGGSHELL				
9	PAINT	EXPOSED SPRINKLER PIPING	SHERWIN WILLIAMS	SUPERPAINT	SW 6855 REAL RED - GLOSS				
9	PAINT	AT HM DOORS AND FRAMES,STEEL RAILING AND BOLLARDS	SHERWIN WILLIAMS	LIGHT INDUSTRIAL COATINGS	SW 7069 IRON ORE - SEMI-GLOSS				
9	DRYFALL PAINT	DRYFALL COATING AT OPEN TO STRUCTURE CEILINGS	SHERWIN WILLIAMS	PRO INDUSTRIAL WATERBORNEACRYLIC DRYFALL	SW 7531 CANVAS TAN - FLAT				
9	PAINT	AT GYP CEILINGS, TYP	SHERWIN WILLIAMS	PROMAR 200 ZERO VOC	SW 7011 NATURAL CHOICE - FLAT				
9	RUBBER BASE	TYPICAL THROUGHOUT @ NON TR SPACES	TARKETT	BASEWORKS THERMOSET RUBBER	63 BURNT UMBER	6" WITH TOE			
9	RUBBER BASE	AT TELECOMMUNICATION ROOMS (TR's) TYP	ROPPE	BASEWORKS THERMOSET RUBBER	BROWN/BLACK	6" WITH TOE	PINNACLE TYPE TS #193		
9	STATIC DISSIPATIVE TILE	AS INDICATED ON DRAWINGS	STATICWORX	AMERIWORX	GREY DOLOMITE	12" X 12"			
9	VINYL FLOORING	SOILED HOLDING ROOM	TARKETT	ARIA	LIMESTONE 0068				
SPECIALTIES									
10	SIGNAGE	TYPICAL		MATCH EXISTING ADJACENT	MATCH EXISTING ADJACENT	MATCH EXISTING ADJACENT	MATCH EXIST. SIGNAGE OF RESPECTIVE BLDG.		
10	FIRE EXTINGUISHER CABINETS	WHERE INDICATED	SEE SPECIFICATIONS	SEE SPECIFICATIONS	MATCH EXISTING CABINET COLORS		MATCH EXIST CABINET IN EA. RESPECTIVE BLDG.		

Revisions:	Date:

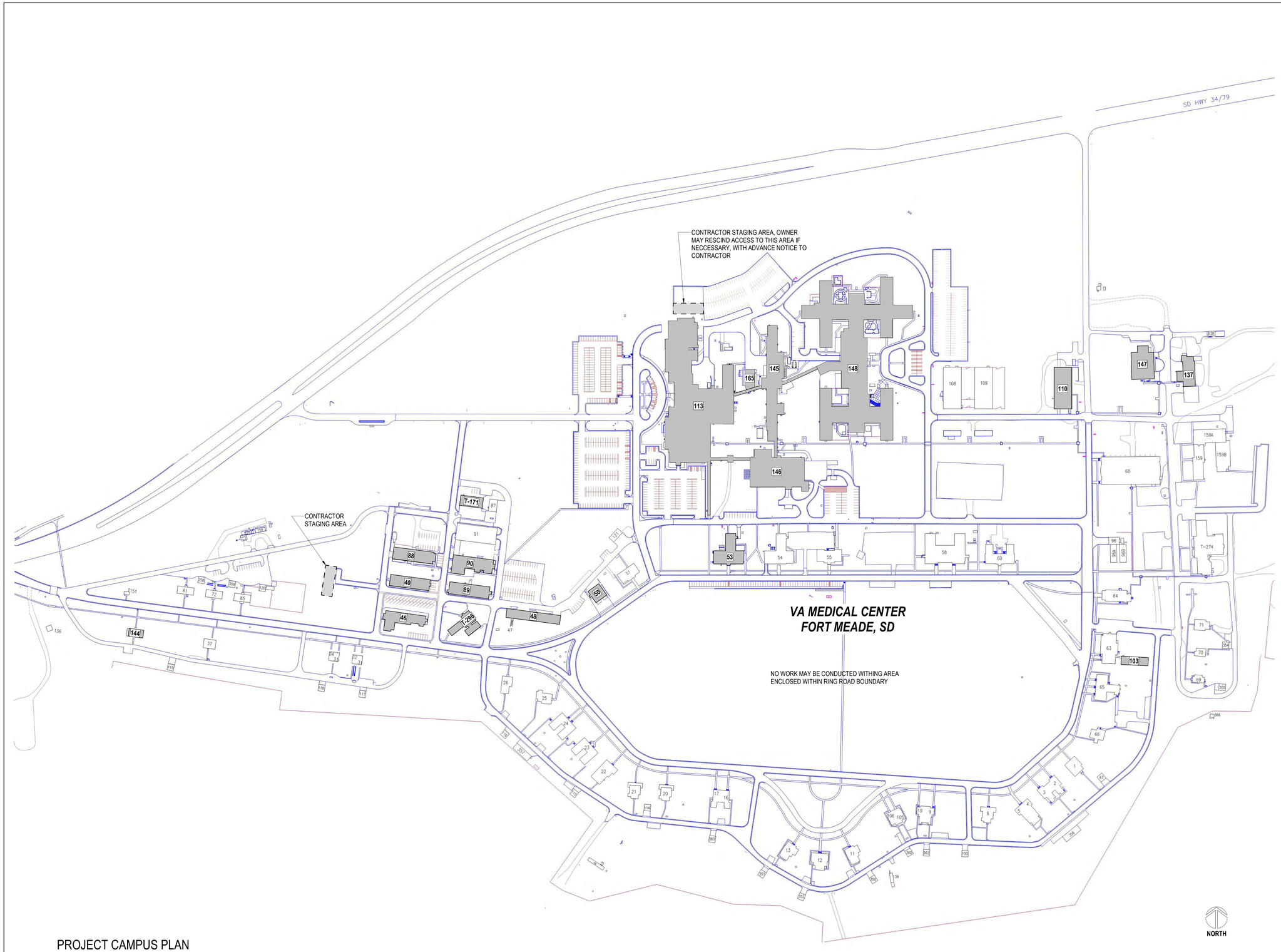
CONSULTANT
ARCHITECT
A&E DESIGN
124 NORTH 29TH STREET, #100
BILLINGS, MONTANA 59101
406.248.2633
PAUL SIDERIUS, AIA
https://www.ae.design/

ARCHITECT/ENGINEER OF RECORD
A/E:
GDM of Oregon
1308 NE 134th St., Suite A
VANCOUVER, WA 98685
P: 541.426.4723
ADAM GODDIN, PE
WWW.GDM-AE.COM

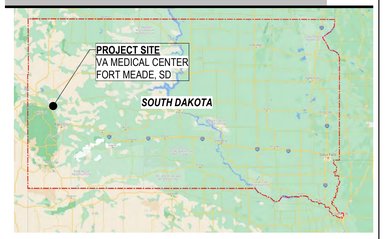
STAMP
STATE OF MONTANA · BILLINGS · ERIC RICHARD ARNDT · 22009 · MONTANA · LICENSED ARCHITECT

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT
VA U.S. Department of Veterans Affairs

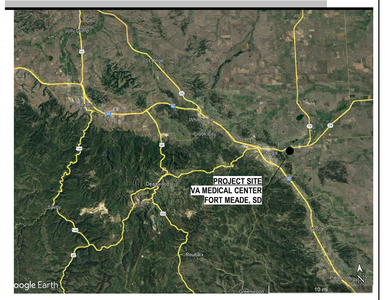
DRAWING TITLE: PROJECT CODE SUMMARY & SCHEDULE FOR FINISHES
PHASE: 100% CONSTRUCTION DOCUMENTS
APPROVED: Project Director
FOR OFFICIAL USE ONLY (FOUO)
FLS: FULLY SPRINKLERED
PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES
LOCATION: FORT MEADE, SOUTH DAKOTA
ISSUE DATE: 11/05/2024
CHECKED BY: PSS
DRAWN BY: JPR
PROJECT NUMBER: 568-21-701
BUILDING NUMBER: GEN INFO
DRAWING NUMBER: 00-GI-002



SOUTH DAKOTA STATE MAP

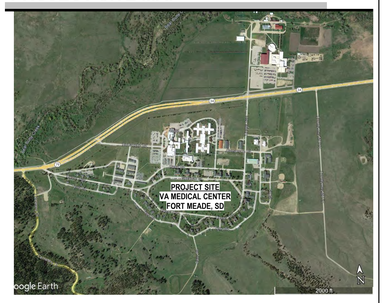


PROJECT REGION MAP



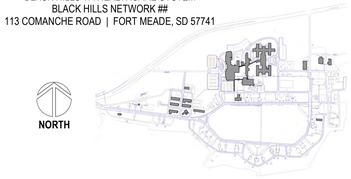
PROJECT LOCATION MAP

PROJECT SITE MAP



PROJECT KEY PLAN

BLACK HILLS VA HEALTHCARE SYSTEM
BLACK HILLS NETWORK ##
113 COMANCHE ROAD | FORT MEADE, SD 57741



PROJECT CAMPUS PLAN

N.T.S.

Revisions:	Date:

CONSULTANT

ARCHITECT
A&E DESIGN
124 NORTH 29TH STREET, #100
BILLINGS, MONTANA 59101
406.248.2633
PAUL SIDERIUS, AIA
https://www.ae.design/

ARCHITECT/ENGINEER OF RECORD

A/E:
GDM of Oregon
1308 NE 134th St., Suite A
VANCOUVER, WA 98685
P: 541.426.4723
ADAM GODDIN, PE
WWW.GDM-AE.COM

GDM ARCHITECTS - ENGINEERS

STAMP

STATE OF MONTANA · BILLINGS · ERIC ARCHIBALD WILSON · 23033 · MONTANA · LICENSED ARCHITECT

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE: PROJECT LOCATION MAPS & CAMPUS PLAN	PHASE: 100% CONSTRUCTION DOCUMENTS	PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES	PROJECT NUMBER: 568-21-701
			BUILDING NUMBER: GEN INFO
APPROVED: Project Director: FOR OFFICIAL USE ONLY (FOUO)	FLS: FULLY SPRINKLERED	LOCATION: FORT MEADE, SOUTH DAKOTA	DRAWING NUMBER: 00-GI-003
		ISSUE DATE: 11/05/2024 · CHECKED BY: PSS · DRAWN BY: JPR	

VA FORM 08 - 6231

NOTE: ALL WORK TO BE CONDUCTED IN DESIGNATED CLASS IV AND V AREAS AS INDICATED IN DRAWINGS, IS TO BE COORDINATED SEVEN (7) DAYS AHEAD OF SCHEDULE WORK WITH INFECTION PREVENTION STAFF AND C.O.R.

Infection Prevention and Control Construction/Renovation/Maintenance Permit

This page must be posted at the entrance to the project area for Level III and Level IV activities.

Unique permit number:	
Location of construction/renovation/maintenance	
Project manager	Project start date
Contact phone number	Completion date
Contractor	Permit expiration date

Activity Category (*A, B, C, or D*)	Overall Patient Risk Category (*Low, Medium, High, or Highest*)	Level of Infection Prevention and Control Precautions (*I, II, III, or IV*)

Level of Precautions	Control measures to be in place for the duration of the activity (*Check the box for the activity's Level of Precautions to indicate the Control Measures*)
Level I ☐	1. Perform work activity in a manner that does not create dust. 2. Immediately replace any ceiling tile, close access panels, etc., upon completion of work. 3. Any materials and equipment being brought into the facility must be free of contaminants and loose material.
Level II ☐	**All control measures in Level I and the following:** 1. Provide active means to control airborne dust from dispersing into occupied areas and/or water mist surface to control dust (e.g., Mobile Dust Containment Cart or some other system). 2. Ensure worker clothing is clean and free of visible dust before leaving the work area. 3. Remove or isolate air diffusers (supply and return) to protect the HVAC system from dust and reduce air turbulence. Rebalance system to address diffuser isolation. 4. When the work involves or impacts potable water systems including stagnation due to reduced usage, the pipings shall be flushed twice a week or isolated from the main system. 5. Seal doors, to prevent dust migration. 6. Contain all trash and debris in the work area. Perform daily cleaning and disposal of trash (covered) from work area using an identified exit route. 7. Any equipment, tools, or materials removed from the work area must be in sealed containers and/or cleaned of dust and debris prior to removal from the area. 8. Nonporous/smooth and cleanable containers (with a hard lid) must be used to transport trash and debris from the construction areas. These containers must be damp-wiped cleaned and free of visible dust/debris before leaving the contained work area. 9. Install a sticky (dust collection) mat at entrance of contained work area based on facility policy. Sticky mats must be changed routinely and when visibly soiled. 10. Maintain clean surroundings when area is not contained by damp mopping or HEPA vacuuming surfaces at least daily.
Level III ☐	**All control measures in Levels I and II and the following:** 1. Ensure availability of equipment for cleaning hands. 2. Construct and complete critical barriers meeting NFPA 241 requirements. Barriers must extend to the ceiling or if ceiling tile is removed, to the deck above. 3. All (plastic or hard) barrier construction activities must be completed in a manner that prevents dust release. Plastic barriers must be effectively affixed to floor and ceiling (or floor/roof deck above) and secure from movement or damage. 4. Seal all penetrations in containment barriers, including floors and ceiling, using approved materials (UL schedule firestop if applicable for barrier type). 5. Maintain .01 inches /water gauge negative pressurization of the entire workspace by use of HEPA exhaust air systems directed outdoors, or comply with the alternative method outline in Appendix A of this VHA ICRA template. These control measures must be maintained continuously 24/7 for the duration of the project. Exhausting discharged air into shared or recirculating HVAC systems, or other shared exhaust systems (e.g., bath room exhaust) is prohibited. **Check box to indicate exhaust method:** Exterior ☐ Alternative Interior Method ☐ 6. Install a differential pressure sensing device (e.g., magnehelic, manometer, or digital monitoring) on exterior of work containment to continually monitor and document negative pressurization. The "ball in the wall" or similar apparatus are not acceptable.
Level IV ☐	**All control measures in Levels I, II and III and the following:** 1. Barriers must be hard barriers unless temporary to install final barrier. 2. Containment must include an anteroom to ensure pressure control. Anteroom must be large enough for equipment staging, cart cleaning, workers' PPE and cleaning. 3. Worker clothing and/or PPE must be removed or clean and free of visible dust before leaving the work area anteroom. HEPA vacuuming of clothing or use of cover suits is acceptable. 4. Workers must wear shoe covers or have a method to clean shoes in anteroom. Shoe covers must be removed prior to exiting the anteroom to the occupied space (non-work area). Damaged shoe covers must be changed immediately.

Additional requirements:		
Project Manager signature	Date	
Infection Prevention signature	Date	

VHA Infection Control Risk Assessment for Construction, Renovation and Maintenance

Table 6 - Minimum Infection Prevention and Control Measures Required Upon Completion of the Activity

Controls defined below shall be completed upon completion of the activity and inspected prior to terminating measures defined in Table 5.

Level of Precautions	Measures
Levels I - II	**Cleaning:** 1. Clean work areas including all environmental surfaces, high horizontal surfaces and flooring materials. 2. Check all supply and return air registers for dust accumulation on upper surfaces as well as air diffuser surfaces. **HVAC Systems:** 1. Remove isolation of HVAC system in areas where work is being performed. Verify that HVAC systems are clean and operational. 2. Verify the HVAC systems meet original airflow and air exchange design specifications. **Water systems:** 1. Until the potable water system is activated and in use, flushing shall continue at least twice per week in accordance with VHA Directive 1061.
Levels III - IV	Construction areas must be inspected by an infection preventionist and engineering representative (and others as determined by the facility) for final activity/project close out and removal of infection prevention and control measures. **Work Area Cleaning:** 1. Clean work areas including all environmental surfaces, high horizontal surfaces and flooring materials. 2. Check all supply and return air registers for dust accumulation on upper surfaces as well as air diffuser surfaces. **Removal of Critical Barriers:** 1. Critical barriers must remain in place during all work involving drywall removal, creation of dust and activities beyond simple touch-up work. The barrier may NOT be removed until a work area cleaning has been performed. Additional cleaning may be needed after removal of barrier. 2. All (plastic or hard) barrier removal activities must be completed in a manner that prevents dust release. Use the following precautions when removing hard barriers: i. Carefully remove screws and painter tape. ii. If dust will be generated during screw removal, use hand-held HEPA vacuum. iii. Drywall cutting is prohibited during removal process. iv. Clean all stud tracks with HEPA vacuum before removing outer hard barrier. v. Use a plastic barrier to enclose area if dust could be generated. **Negative Air Requirements:** 1. The use of negative air must be designed to remove contaminants from the work area. 2. Negative air devices (fans, filters, monitoring and documentation equipment) must remain operational at all times and in place for a period after completion of dust creating activities to remove contaminants from the work area and before removal of critical barriers. **HVAC systems:** 1. Upon removal of critical barriers, remove isolation of HVAC system in areas where work is being performed. 2. Verify that HVAC systems are clean and operational. 3. Verify and document through a TAB the HVAC systems meets original airflow and air exchange design specifications. **Water systems:** 1. Until the potable water system is activated and in use, flushing shall continue at least twice per week in accordance with VHA Directive 1061.

VHA Infection Control Risk Assessment for Construction, Renovation and Maintenance

Table 4 - Level of Infection Prevention and Control Precautions

Match the Overall Patient Risk Category (*Low, Medium, High, Highest*) determined from Table 3 with the planned Construction/Renovation/Maintenance Activity Category (*A, B, C, D*) from Table 1 to determine the minimum Level of Infection Prevention and Control Precautions (*I, II, III, or IV*) using Table 4 below.

Level of Precautions determined from Table 4 (*I, II, III, or IV*): ☐

Patient Risk Category	Activity Category A	B	C	D
Low Risk	I	II	II	III
Medium Risk	I	II	III	IV
High Risk	I	II	IV	IV
Highest Risk	II	III	IV	IV

An infection prevention and control permit is required for Level III and Level IV. Consult with Infection Prevention and Control for Level I and Level II.

Table 5 - Required Infection Prevention and Control Measures, by Level of Precautions

Controls defined below for the Level of Precautions identified for the activity must be in place before the activity begins and maintained until work is completed and the area is activated. Control measures for each Precaution Level must also include the control measures in the preceding Level(s).

As the activity progresses, a full re-evaluation of remaining activity type and patient risk is required prior to downgrading the Level of Precautions.

Level of Precautions	Control Measures
Level I	1. Perform work activity in a manner that does not create dust. 2. Immediately replace any ceiling tile, close access panels, etc., upon completion of work. 3. Any materials and equipment being brought into the facility must be free of contaminants and loose material.
Level II	**All control measures in Level I and the following:** 1. Provide active means to control airborne dust from dispersing into occupied areas and/or water mist surface to control dust (e.g., Mobile Dust Containment Cart or some other system). 2. Ensure worker clothing is clean and free of visible dust before leaving the work area. 3. Remove or isolate air diffusers (supply and return) to protect the HVAC system from dust and reduce air turbulence. Rebalance system to address diffuser isolation.

VHA Infection Control Risk Assessment for Construction, Renovation and Maintenance

Table 2 - Affected Area Assessment

Identify the areas and associated patients that will be affected by the construction/renovation/maintenance activity (see the Figure for a visual representation of adjacent affected areas).

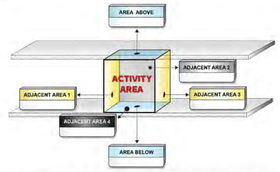


Figure: Isometric drawing of affected area assessment

Area	Service(s)/Type(s) of Area(s) (*e.g., OR, Unit/Ward, Sterile Processing, Administrative, etc.*)*	Point of Contact (POC)	POC Contact Information
Activity Area**			
Area Above			
Area Below			
Adjacent Area 1			
Adjacent Area 2			
Adjacent Area 3			
Adjacent Area 4			

* There may be more than one Service/type of area for each row. List all.
** List the area(s) in which the construction/renovation/maintenance activity will occur. ***NOTE: When the Activity Category is B, C, or D, the control measures are determined by the Patient Risk in the adjacent affected areas.***

VHA Infection Control Risk Assessment for Construction, Renovation and Maintenance

Introductory Information and Instructions

Use this template as a baseline for performing facility Infection Control Risk Assessments (ICRAs) for construction, renovation, and maintenance work (referred to as the "activity" in this document). The template provides minimum requirements for categorizing activity types and patient risk to determine the level of precautions needed to prevent infection risks. Facilities may customize this template to incorporate site-specific information and/or to add more stringent criteria.

This VHA ICRA template pertains specifically to infection prevention. It must be used if required by the VHA Pre-Construction Risk Assessment (PCRA) for the activity. *NOTE: The PCRA addresses other activity-related safety concerns (e.g., vibration, noise, hazardous materials) outside the scope of the ICRA.*

To complete the template:

1. Use **Table 1** to identify the category of the construction, renovation and/or maintenance activity.
2. Use **Table 2** to identify the areas affected by the activity.
3. Use **Table 3** to identify the overall patient risk category that will be affected by the activity.
4. Use **Table 4** to determine the level of infection prevention and control precautions needed for the activity.

Once all 4 steps above are completed: Refer to **Table 5** for the minimum required control measures for the level of infection prevention and control precautions needed for the activity. Refer to **Table 6** for the minimum infection prevention and control measures required on completion of the activity.

PERMIT: See the last page of this document for a fillable permit form to be used for posting at the activity site as needed.

Table 1 - Construction, Renovation, and/or Maintenance Activity Category

NOTE: *If any of the bulleted criteria in a higher activity category pertains to the work that will be done (even if the other criteria are in a lower category), use the higher activity category for the VHA ICRA.*

Activity Category determined from Table 1 (*A, B, C, or D*): ☐

Category A	**Inspection and/or facility upkeep generally defined as follows:** • Work can be completed in a single shift, not to exceed 10 hours. • Patients and/or employees may be in the area depending on the activity. • Work that does not create dust or debris. • Removal of ceiling tile or access to mechanical or electrical chase for visual inspection limited to 1 tile per 50 square feet with limited exposure time (not to exceed an hour for each tile) within the shift. • Minor interior updates (e.g., replacing floor or ceiling tiles, carpentry work to include hanging signage, and painting without sanding) that do not create dust or debris. • Limited building system maintenance such as basic plumbing on potable systems (e.g., faucet replacement) or basic electrical work such as replacement of light bulbs, receptacles, or switches.
Category B	**General maintenance and repair work generally defined as follows:** • Prolonged inspection and work that may take longer than a single shift but not exceeding a week. • Patients and employees are not to be in the area until activity is completed. • Work that creates minimal dust and debris.

Appendix A: Alternative To Outdoor Exhaust Requirements

This Appendix provides an equivalent ICRA control measure to requirements detailed in this VHA ICRA template (Table 5 Level III, item 5) that would allow interior construction space exhaust.

Interior Construction Space Exhaust:

If the facility is not able to exhaust to the building exterior, the Healthcare Environment and Facilities program office has identified an alternate industry-recognized standard interior exhaust procedure that is accepted as providing an equivalent level of infection prevention and control (IPC), and safety. The alternate interior exhaust procedure is implemented by completing the following:

a. If exhaust is directed indoors, then the system must be HEPA filtered. Prior to start of work, including assembly of the ICRA barriers, initial baseline air sampling measurements for particulate levels must be taken in the planned area of discharge. Once containment is erected and completed, HEPA filtration must then be verified by particulate measurement, using a particle counter with multi-channel capabilities to measure down to 0.3 microns, to confirm that the discharge of the HEPA unit does not exceed the baseline particulate count of the area to which the exhaust is directed. Verification must continue at least three times per day (once every 8 hours), 7 days per week, during the use of the negative air machine and HEPA filter. Any exceedance must trigger a work stoppage and an immediate response and resolution. All particulate measurements, including the baseline measurement, must be documented and retrievable.
b. To accommodate the sampling, the negative air pressure machine must be fitted with a 2 ft section of ridged ductwork at the discharge. The sample port for monitoring must be in the ridged ductwork section.
c. Vapor generating processes must be assessed and appropriate filtration must be installed to mitigate transmission to the facility.
d. Engineering must do a complete flow and pressure analysis and document the area to which the air is being discharged to ensure the flow and pressure relationships in that area are not being adversely impacted by the additional flow. Ideally, this is done as part of the construction package to ensure the design is implementable and no additional HVAC changes are required to accommodate the exhaust from the negative air equipment.
e. Install device on exterior of work containment to continually monitor negative pressurization. To ensure proper pressure is continuously maintained, the device(s) shall have a visual pressure indicator, data collection and alarm.
f. Exhaust must be directed to Low Risk areas as defined in Table 3 in this VHA ICRA template. Ideally this discharge must be located so as not to impinge on high traffic areas or create a nuisance with noise or excessive airflow.
NOTE: *Exhaust into shared or recirculating HVAC systems, or other shared exhaust systems (e.g., bathroom exhaust) is not acceptable.*

VHA Infection Control Risk Assessment for Construction, Renovation and Maintenance

	4. When the work involves or impacts potable water systems including stagnation due to reduced usage, the piping shall be flushed twice a week or isolated from the main system. 5. Seal doors to prevent dust migration. 6. Contain all trash and debris in the work area. Perform daily cleaning and disposal of trash (covered) from work area using an identified exit route. 7. Any equipment, tools, or materials removed from the work area must be in sealed containers and/or cleaned of dust and debris prior to removal from the area. 8. Nonporous/smooth and cleanable containers (with a hard lid) must be used to transport trash and debris from the construction areas. These containers must be damp-wiped cleaned and free of visible dust/debris before leaving the contained work area. 9. Install a sticky (dust collection) mat at entrance of contained work area based on facility policy. Sticky mats must be changed routinely and when visibly soiled. 10. Maintain clean surroundings when area is not contained by damp mopping or HEPA vacuuming surfaces at least daily.
Level III	**All control measures in Levels I and II and the following:** 1. Ensure availability of equipment for cleaning hands. 2. Construct and complete critical barriers meeting NFPA 241 requirements. Barriers must extend to the ceiling or if ceiling tile is removed, to the deck above. 3. All (plastic or hard) barrier construction activities must be completed in a manner that prevents dust release. Plastic barriers must be effectively affixed to floor and ceiling (or floor/roof deck above) and secure from movement or damage. 4. Seal all penetrations in containment barriers, including floors and ceiling, using approved materials (UL schedule firestop if applicable for barrier type). 5. Maintain .01 inches /water gauge negative pressurization of the entire workspace by use of HEPA exhaust air systems directed outdoors, or comply with the alternative method outlined in Appendix A of this document. These control measures must be maintained continuously 24/7 for the duration of the project. HEPA filtered exhaust if discharged directly to the outdoors must be at a distance of 25 feet or greater from entrances, air intakes and operable windows. Exhausting discharged air into shared or recirculating HVAC systems, or other shared exhaust systems (e.g., bathroom exhaust) is prohibited. 6. Install a differential pressure sensing device (e.g., magnehelic, manometer, or digital monitoring) on exterior of work containment to continually monitor and document negative pressurization. The "ball in the wall" or similar apparatus are not acceptable.
Level IV	**All control measures in Levels I, II and III and the following:** 1. Barriers must be hard barriers unless temporary to install final barrier. 2. Containment must include an anteroom to ensure pressure control. Anteroom must be large enough for equipment staging, cart cleaning, workers' PPE and cleaning. 3. Worker clothing and/or PPE must be removed or clean and free of visible dust before leaving the work area anteroom. HEPA vacuuming of clothing or use of cover suits is acceptable. 4. Workers must wear shoe covers or have a method to clean shoes in anteroom. Shoe covers must be removed prior to exiting the anteroom to the occupied space (non-work area). Damaged shoe covers must be changed immediately.

VHA Infection Control Risk Assessment for Construction, Renovation and Maintenance

Table 3 - Patient Risk Category

Using Table 3, identify the patient risk category for each area listed in Table 2. Of the patient risk categories identified, select the one with the greatest risk as the overall Patient Risk Category for the activity.

Overall Patient Risk Category determined from Table 3 (*Low, Medium, High, or Highest*): ☐

Low Risk	Medium Risk	High Risk	Highest Risk
Non-patient care areas such as:	Patient care support areas such as:	Patient care areas such as:	Procedural, invasive, sterile support and highly compromised patient care areas such as:
• Public hallways and gathering areas not in clinical areas • Office areas not in clinical areas • Breakrooms not in clinical areas • Bathrooms or locker rooms not in clinical areas • Mechanical/electrical rooms not in clinical areas	• Waiting areas • Clinical engineering (biomedical) • Materials management • Sterile processing department – dirty side • Kitchen, cafeteria, gift shop, coffee shop, and food kiosks	• Patient care rooms and areas, including spinal cord injury units • All acute care units, including mental health • All outpatient units and clinics • Emergency department • Community Living Centers, domiciliaries, and transitional residences • Employee health • Pharmacy – general work zone • Medication rooms and clean utility rooms • Imaging suites – diagnostic imaging • Laboratory	• All transplant units • All intensive care units • All oncology units and chemotherapy/infusion centers • OR theaters and restricted areas • Hemodialysis units • Procedural rooms* • Pharmacy compounding area • Sterile processing department – clean side • Transfusion services • Imaging suites – interventional imaging • Dedicated isolation wards/units for infectious diseases

* Procedural Rooms are designated for the performance of patient care activities that may require high-level disinfected or sterile instruments and some environmental controls but is not required to be performed with the environmental controls of an operating room (OR). The room is intended for procedures that are performed in an aseptic surgical field and penetrates the protective surfaces of a patient's body (e.g., subcutaneous tissue, mucous membranes, cornea) or entry into or opening of a sterile body cavity. Examples of these spaces include, and are not limited to, Cardiac Catheterization Suites, Electrophysiology Suites, Endovascular/GI Suites, Angio Suites and other spaces which may have high risk patient populations.

VHA Infection Control Risk Assessment for Construction, Renovation and Maintenance

	• Interior finish or surface repairs, updates, or modifications such as repair of firewalls and barriers, and new flooring that produces minimal dust and debris. Controlled sanding activities (e.g., wet or dry sanding) that produce minimal dust and debris. • Plumbing work such as installation or replacement of a single fixture or piping for a single fixture. Any work on sanitary plumbing including snaking of drains. • Electrical work such as installation of cabling/wiring/conduit for a single device, installation of new device such as a light fixture that produces minimal dust and debris. • Air Handler and/or fan shutdown/startup and HVAC work such as replacement of a single diffuser, single terminal unit or a single device that produces minimal dust and debris.
Category C	**Small-scale construction, renovation, or maintenance generally defined as follows:** • Work requiring longer than a single week to complete but not exceeding 6 months. • Patients and employees are not to be in the area until activity is completed. • Demolition/removal of preexisting floor covering, casework, lay-in ceiling, or other architectural elements. • Demolition/removal of more than 32 ft² of drywall/framing, hard ceilings, and doors/framing and minimal infrastructure such as electrical circuits and branch piping. • Installation of new walls, ceilings and doors including framing, drywall/plaster and associated work. • Plumbing work such as the installation of new sinks, showers and toilets and associated plumbing. • Shut down of sections of potable water systems. • Electrical work such as installation of conduit and wire for lighting, receptacles and switches for an area, the installation of conduit and wire for new devices such as terminal units, fans etc. • Modification of existing fire alarm and suppression systems. • Mechanical work such as the installation of ductwork, diffusers, and terminal units for an area.
Category D	**Large-scale construction, renovation, or maintenance generally defined as follows:** • Work exceeding 6 months in duration. • Patients and employees are not to be in the area until activity is completed. • Large-scale demolition of building components and infrastructure including removal of multiple services, walls, framing, ceilings, flooring, piping, electrical and HVAC. • The installation building components such as new walls, ceilings and doors including framing, drywall and associated plaster work. • Plumbing work such as the installation of: o new medical gas systems, o steam/heating hot water, condensate systems, o multiple sinks, showers and toilets including associated plumbing. • Shutdown of potable water, steam/heating hot water, condensate, and medical gas systems. • Electrical work such as installation of electrical feeders, distribution panels, conduit and wire for lighting, receptacles and switches for an area, the installation of conduit and wire for new devices such as terminal units, fans etc. • Installation of fire alarm and suppression systems. • Electrical shutdown of multiple panels. • Mechanical work such as the installation of air handling equipment, associated ductwork, diffusers, heat exchangers, terminal units and controls.

Revisions:	Date:

CONSULTANT

ARCHITECT
A&E DESIGN
124 NORTH 29TH STREET, #100
BILLINGS, MONTANA 59101
406.248.2633
PAUL SIDERIUS, AIA
https://www.ae.design/

ARCHITECT/ENGINEER OF RECORD

A/E:
GDM of Oregon
1308 NE 134th St., Suite A
VANCOUVER, WA 98685
P: 541.426.4723
ADAM GODDIN, PE
WWW.GDM-AE.COM

GDM ARCHITECTS - ENGINEERS

STAMP

STATE OF MONTANA · BILLINGS · ERIC RICHARD HELSTROM · 23795 · REGISTERED ARCHITECT

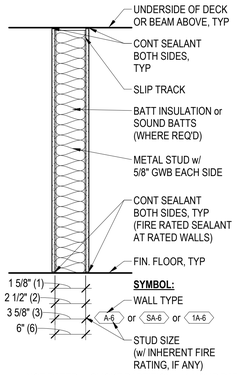
OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

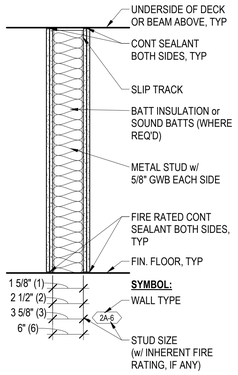
DRAWING TITLE: ICRA CLASSIFICATION PROCESS	PHASE: 100% CONSTRUCTION DOCUMENTS	PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES	PROJECT NUMBER: 568-21-701
APPROVED: Project Director: FOR OFFICIAL USE ONLY (FOUO)	FLS: FULLY SPRINKLERED	LOCATION: FORT MEADE, SOUTH DAKOTA	BUILDING NUMBER: GEN INFO
		ISSUE DATE: 11/05/2024 / CHECKED BY: PSS / DRAWN BY: JPR	DRAWING NUMBER: 00-GI-004

VA FORM 08 - 6231

VERTICAL ASSEMBLIES



NOT-RATED or SMOKE PARTITION or 1-HOUR RATING **UL DES 465**(MTL)



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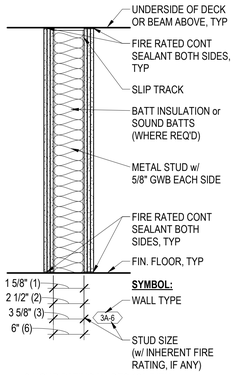
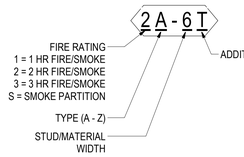


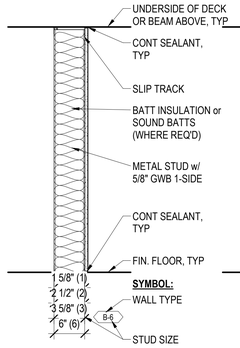
3-HOUR RATING **UL DES 465** (MTL)

WALL TYPE TAG LEGEND



EXAMPLE: 2A-6T =
2-HOUR FIRE RATING (PER U.L. DESCRIPTION)
TYPE 'A' WALL
WITH 6" STUDS
TILE BACKER BOARD (T)

A A SERIES PARTITION (GWB BOTH SIDES)



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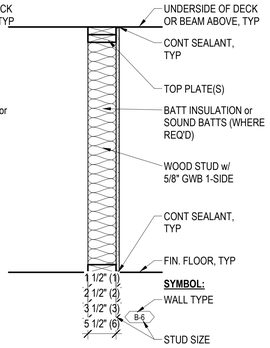

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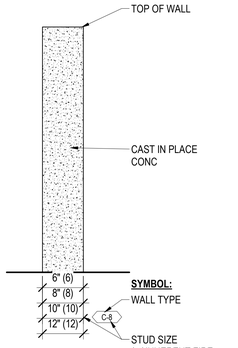

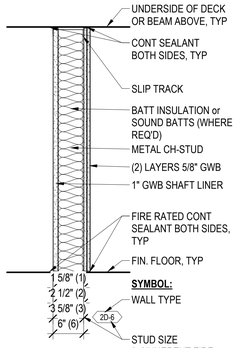

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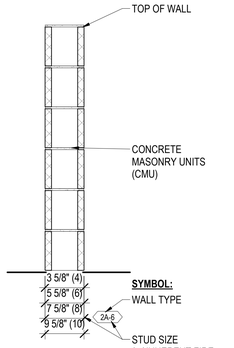


B B SERIES PARTITION (GWB 1-SIDE)

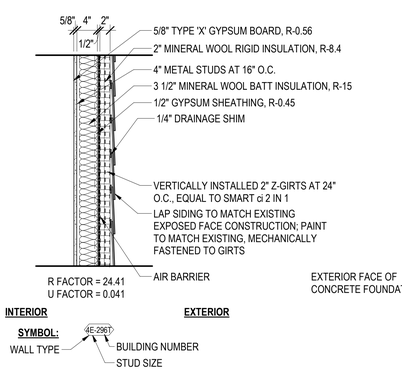
NOT-RATED (MTL) NOT-RATED (WD)

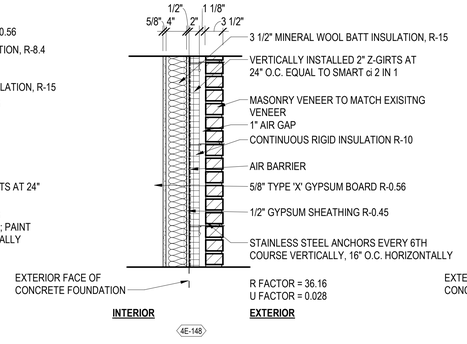
C C SERIES PARTITION (CONC)

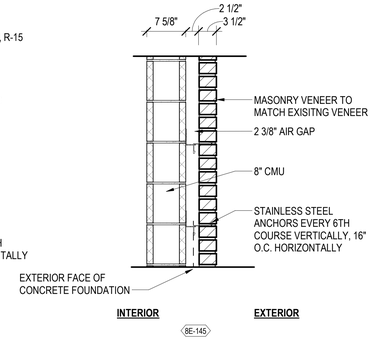
D D SERIES PARTITION (SHAFT)

2-HOUR RATING (MTL)

M M SERIES PARTITION (CMU)

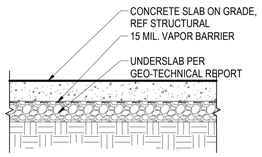




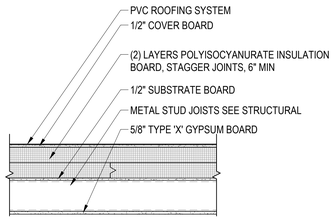


E E SERIES PARTITION

HORIZONTAL ASSEMBLIES

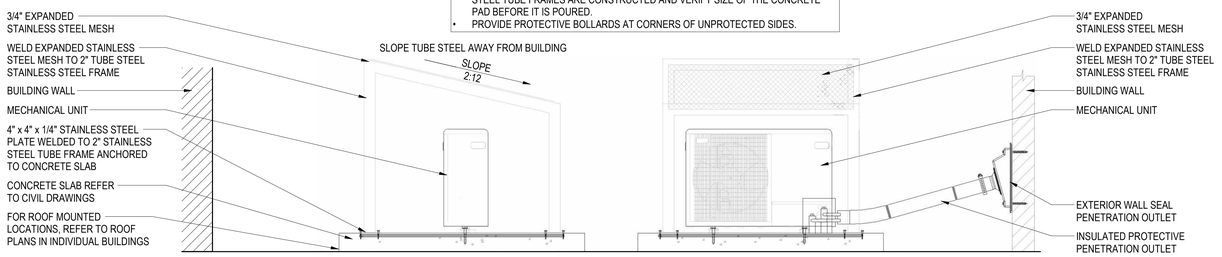


F1 FLOOR ASSEMBLY



R1 ROOF ASSEMBLY

NOTES:
- REFERENCE MECHANICAL DRAWINGS FOR UNIT AND PAD SIZE AND LOCATIONS.
- VERIFY WITH MANUFACTURE THE SIZE OF MECHANICAL UNIT BEFORE STAINLESS STEEL TUBE FRAMES ARE CONSTRUCTED AND VERIFY SIZE OF THE CONCRETE PAD BEFORE IT IS POURED.
- PROVIDE PROTECTIVE BOLLARDS AT CORNERS OF UNPROTECTED SIDES.



3 TYPICAL EXTERIOR MECHANICAL EQUIPMENT ENCLOSURE
1" = 1'-0"

Revisions:	Date:

CONSULTANT
ARCHITECT
A&E DESIGN
124 NORTH 29TH STREET, #100
BILLINGS, MONTANA 59101
406.248.2633
PAUL SIDERIUS, AIA
https://www.ae.design/

ARCHITECT/ENGINEER OF RECORD
A/E:
GDM of Oregon
1308 NE 134th St., Suite A
VANCOUVER, WA 98685
P: 541.426.4723
ADAM GODDIN, PE
WWW.GDM-AE.COM

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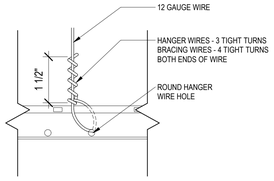
OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT
VA U.S. Department of Veterans Affairs

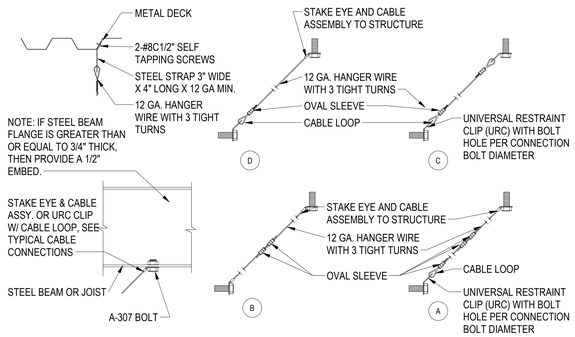
DRAWING TITLE: PROJECT ASSEMBLY TYPES
PHASE: 100% CONSTRUCTION DOCUMENTS
PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES
PROJECT NUMBER: 568-21-701
BUILDING NUMBER: GEN INFO
APPROVED: Project Director: FOR OFFICIAL USE ONLY (FOUO)
FLS: FULLY SPRINKLERED
LOCATION: FORT MEADE, SOUTH DAKOTA
ISSUE DATE: 11/05/2024
CHECKED BY: PSS
DRAWN BY: JPR
DRAWING NUMBER: 00-GI-005

VA FORM 08 - 6231



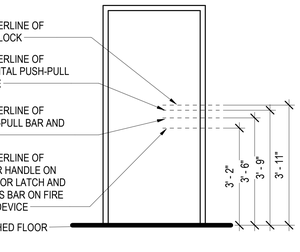
16 TYPICAL HANGER WIRE DETAIL

6" = 1'-0"



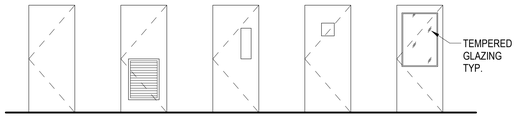
11 SEISMIC HANGER BRACING DETAIL

1 1/2" = 1'-0"

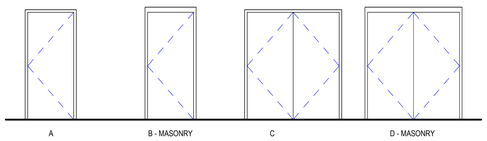


10 TYPICAL HARDWARE MOUNTING

1/2" = 1'-0"



DOOR PANEL TYPE ELEVATIONS



DOOR FRAME TYPE ELEVATIONS

DOOR SCHEDULE

BUILDING NUMBER	DOOR NUMBER	DIMENSIONS			DOOR					FRAME			HARDWARE	FIRE RATING	COMMENTS
		WIDTH	HEIGHT	THICKNESS	DOOR TYPE	DOOR PANEL TYPE	DOOR MATERIAL	DOOR FINISH	DOOR PAIR	FRAME TYPE	FRAME MATERIAL	FRAME FINISH			
Bldg 48	48-101.0	3' - 0"	7' - 0"	1 3/4"	E	HALF GLASS	HM	PAINT		A	HM	PAINT	005		
Bldg 53	53-TCB1.0	3' - 0"	7' - 0"	1 3/4"	A	FLUSH	HM	PAINT		A	HM	PAINT	001		1
Bldg 88	88-B102A.0	3' - 0"	7' - 0"	1 3/4"	A	FLUSH	HM	PAINT		A	HM	PAINT	001		1
Bldg 89	89-201.0	3' - 0"	8' - 0"	1 3/4"	A	FLUSH	HM	PAINT		A	HM	PAINT	002		1
Bldg 90	90-109A.0	3' - 0"	7' - 6"	1 3/4"	A	FLUSH	HM	PAINT		A	HM	PAINT	001		1
Bldg 113	113-103.0	3' - 0"	7' - 6"	1 3/4"	A	FLUSH	HM	PAINT		A	HM	PAINT	001		1
Bldg 113	113-169.0	3' - 0"	7' - 6"	1 3/4"	A	FLUSH	HM	PAINT		A	HM	PAINT	001		1
Bldg 113	113-187A.0	3' - 0"	7' - 6"	1 3/4"	A	FLUSH	HM	PAINT		A	HM	PAINT	001		1
Bldg 113	113-192.0	3' - 0"	7' - 6"	1 3/4"	A	FLUSH	HM	PAINT		A	HM	PAINT	005		1
Bldg 113	113-216.0	3' - 0"	7' - 6"	1 3/4"	A	FLUSH	HM	PAINT		A	HM	PAINT	001		1
Bldg 113	113-801.0	3' - 0"	7' - 6"	1 3/4"	A	FLUSH	HM	PAINT		A	HM	PAINT	001		1
Bldg 145	145-122B.0	3' - 0"	7' - 0"	1 3/4"	A	FLUSH	HM	PAINT		A	HM	PAINT	002		1
Bldg 145	145-126.1	3' - 0"	7' - 0"	1 3/4"	A	FLUSH	WD	WD		A	HM	PAINT	005		
Bldg 145	145-128.1	3' - 0"	7' - 0"	1 3/4"	A	FLUSH	WD	WD		A	HM	PAINT	005		
Bldg 145	145-128.2	3' - 0"	7' - 0"	1 3/4"	A	FLUSH	WD	WD		A	HM	PAINT	005		
Bldg 145	145-129.1	3' - 6"	7' - 0"	1 3/4"	A	FLUSH	WD	WD		A	HM	PAINT	005		
Bldg 145	145-132.0	3' - 6"	7' - 0"	1 3/4"	A	FLUSH	HM	PAINT		A	HM	PAINT	001	45	1
Bldg 145	145-132.2	6' - 0"	7' - 0"	1 3/4"	A	FLUSH	HM	PAINT	Yes	D	HM	PAINT	004		1, 2, 4
Bldg 145	145-132A.0	3' - 0"	7' - 0"	1 3/4"	A	FLUSH	HM	PAINT		A	HM	PAINT	005		3
Bldg 145	145-134.0	3' - 6"	7' - 0"	1 3/4"	A	FLUSH	WD	WD		A	HM	PAINT	006		
Bldg 145	145-136.1	3' - 8"	7' - 0"	1 3/4"	(E)	FLUSH	(E)	(E)		(E)	(E)	(E)	(E)		ROTATE & REINSTALL - REUSE EXISTING HARDWARE
Bldg 145	145-137.1	3' - 6"	7' - 0"	1 3/4"	A	FLUSH	HM	PAINT		A	HM	PAINT	002		1
Bldg 145	145-137A.0	3' - 0"	7' - 0"	1 3/4"	A	FLUSH	HM	PAINT		A	HM	PAINT	005		3
Bldg 145	145-137B.0	3' - 0"	8' - 0"	1 3/4"	A	FLUSH	HM	PAINT		A	HM	PAINT	001		1
Bldg 145	145-139A.0	6' - 0"	8' - 0"	1 3/4"	A	FLUSH	WD	STAIN	Yes	C	HM	PAINT	007		1
Bldg 145	145-229A.0	3' - 0"	7' - 0"	1 3/4"	A	FLUSH	HM	PAINT		A	HM	PAINT	002		1
Bldg 145	145-329.0	3' - 0"	7' - 0"	1 3/4"	A	FLUSH	HM	PAINT		A	HM	PAINT	002		1
Bldg 146	146-108.0	3' - 0"	7' - 6"	1 3/4"	A	FLUSH	HM	PAINT		A	HM	PAINT	001		1
Bldg 146	146-113.0	3' - 0"	7' - 0"	1 3/4"	A	FLUSH	HM	PAINT		A	HM	PAINT	005		
Bldg 148	148-A144A.0	3' - 0"	7' - 0"	1 3/4"	A	FLUSH	HM	PAINT		A	HM	PAINT	001		1
Bldg 148	148-ATC2.2-(E)	3' - 0"	7' - 0"	1 3/4"	(E)	FLUSH	(E)	(E)		(E)	(E)	(E)	006		6
Bldg 148	148-C106A.0	3' - 0"	7' - 0"	1 3/4"	A	FLUSH	WD	WD		A	HM	PAINT	001		1
Bldg 148	148-C106B.1	3' - 0"	7' - 0"	1 3/4"	E	HALF GLASS	WD	WD		A	HM	PAINT	005		
Bldg 148	148-C108.0	3' - 0"	7' - 0"	1 3/4"	E	HALF GLASS	WD	WD		A	HM	PAINT	005		
Bldg 148	148-F108.0	3' - 0"	7' - 0"	1 3/4"	A	FLUSH	WD	WD		A	HM	PAINT	001		1
Bldg T296	T296-104.0	3' - 0"	8' - 0"	1 3/4"	A	FLUSH	HM	PAINT		A	HM	PAINT	001.01		1, 2, 4

DOOR NUMBERING MARK DEFINITION

145 - 129.0

- 145 — INDICATES BUILDING NUMBER
- 129.0 — INDICATES ROOM NUMBER
- INDICATES DOOR DESIGNATION IN ROOM

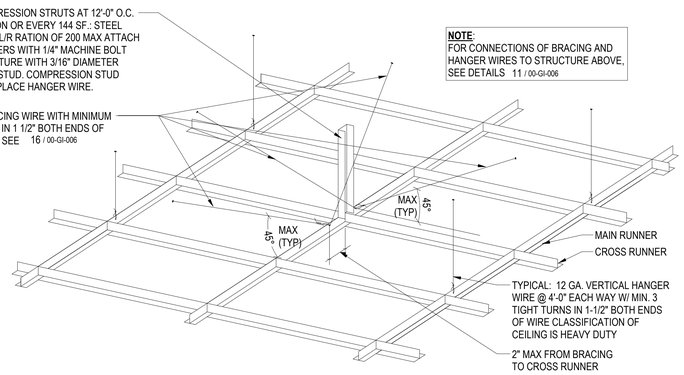
DOOR SCHEDULE COMMENT NOTES:

1. CARD READER.
2. PROVIDE THRESHOLD SET ON MASTIC FULL LENGTH OF DOOR, SEE HARDWARE GROUPS FOR TYPE.
3. 3/4" DOOR UNDERCUT
4. THERMALLY BROKEN DOOR FRAME
5. REUSE EXISTING HARDWARE IN NEW DOOR
6. NEW LOCKSET & CLOSER ON EXISTING DOOR

INSTALL COMPRESSION STRUTS AT 12'-0" O.C. EACH DIRECTION OR EVERY 144 SF.: STEEL SECTION WITH L/R RATION OF 200 MAX ATTACH TO MAIN RUNNERS WITH 1/4" MACHINE BOLT AND TO STRUCTURE WITH 3/16" DIAMETER POWER DRIVE STUD. COMPRESSION STUD SHALL NOT REPLACE HANGER WIRE.

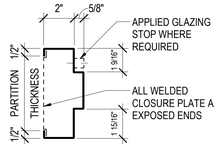
12 GAUGE BRACING WIRE WITH MINIMUM 4 TIGHT TURNS IN 1 1/2" BOTH ENDS OF WIRE, TYPICAL, SEE 16 / 00-GI-006

NOTE:
FOR CONNECTIONS OF BRACING AND HANGER WIRES TO STRUCTURE ABOVE, SEE DETAILS 11 / 00-GI-006



6 TYPICAL CEILING ATTACHMENT DETAIL

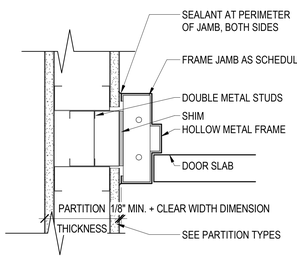
1 1/2" = 1'-0"



JAMB / HEAD DETAIL

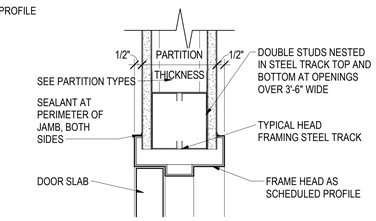
7 FRAME PROFILE - TYPICAL FRAME

3" = 1'-0"



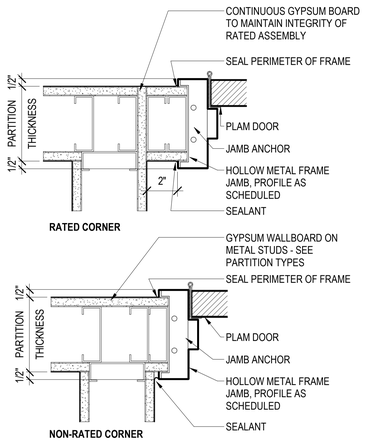
8 TYPICAL DETAIL FLUSH JAMB

3" = 1'-0"



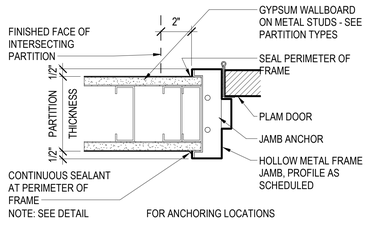
9 TYPICAL HEAD DETAIL

3" = 1'-0"



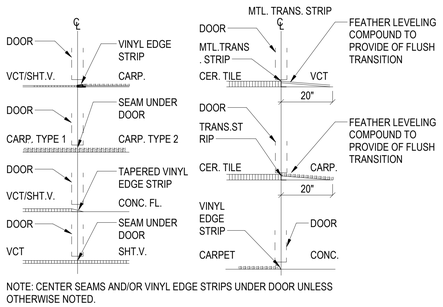
3 TYPICAL FLUSH JAMB AT CORNER

3" = 1'-0"



4 TYPICAL JAMB DETAIL AT GYPSUM BOARD

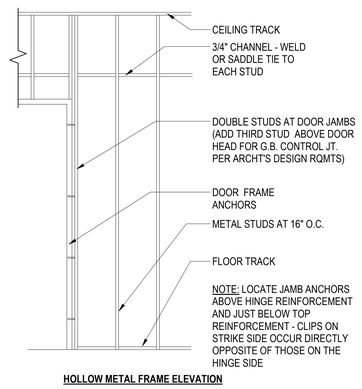
3" = 1'-0"



NOTE: CENTER SEAMS AND/OR VINYL EDGE STRIPS UNDER DOOR UNLESS OTHERWISE NOTED.

2 TRANSITION DETAILS

3/16" = 1'-0"



HOLLOW METAL FRAME ELEVATION | **METAL STUD ANCHOR SECTION**

5 DOOR ANCHORS

1/2" = 1'-0"

Revisions:	Date:

CONSULTANT

ARCHITECT
A&E DESIGN
124 NORTH 29TH STREET, #100
BILLINGS, MONTANA 59101
406.248.2633
PAUL SIDERIUS, AIA
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ARCHITECT/ENGINEER OF RECORD

A/E:
GDM of Oregon
1308 NE 134th St., Suite A
VANCOUVER, WA 98685
P: 541.426.4723
ADAM GODDIN, PE
WWW.GDM-AE.COM

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STATE OF MONTANA · BILLINGS · ERIC RICHARD HELEN · 23999 · MONTANA · LICENSED ARCHITECT

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE: DOOR SCHEDULE, TYPICAL CEILING AND DOOR DETAILS

PHASE: 100% CONSTRUCTION DOCUMENTS

PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES

PROJECT NUMBER: 568-21-701

BUILDING NUMBER: GEN INFO

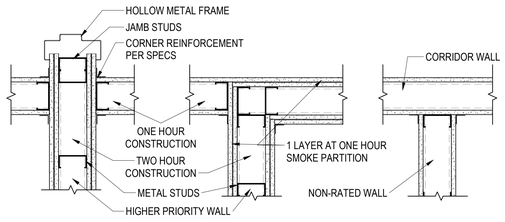
APPROVED: Project Director: FOR OFFICIAL USE ONLY (FOUO)

FLS: FULLY SPRINKLERED

LOCATION: FORT MEADE, SOUTH DAKOTA

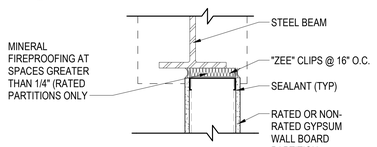
ISSUE DATE: 11/05/2024 | CHECKED BY: PSS | DRAWN BY: JPR

DRAWING NUMBER: 00-GI-006



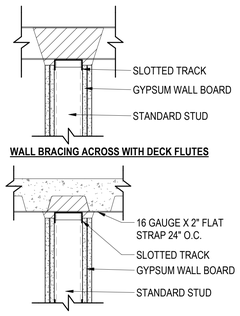
5 INTERSECTION OF RATED WALLS

1 1/2" = 1'-0"



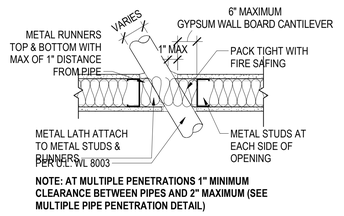
4 PARTITION HEAD DETAIL

1 1/2" = 1'-0"



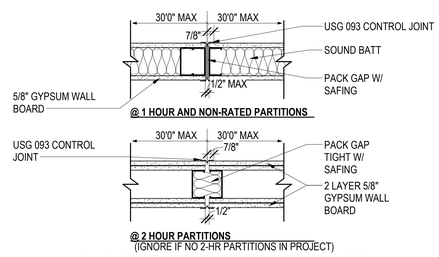
3 WALL BRACING - CROSS DECKING

1 1/2" = 1'-0"



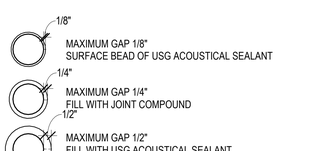
2 ANGLED PIPE PENETRATION

1 1/2" = 1'-0"



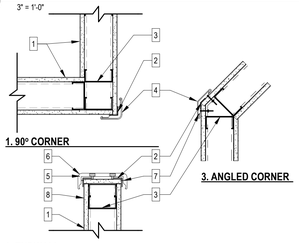
1 TYP PARTITION CONTROL JOINTS

1 1/2" = 1'-0"



9 PARTITIONS - PENETRATIONS

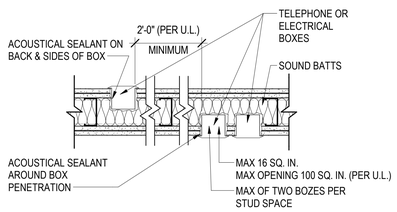
3" = 1'-0"



1. SCHEDULED PARTITION TYPE, SEE PLAN
2. PROVIDE METAL CORNER BEAD TO MAINTAIN ASSEMBLY RATING PER U.L. REQUIREMENTS (RATED ASSEMBLIES ONLY)
3. METAL STUD FRAMING.
4. SURFACE MOUNTED CORNER GUARD WITH ONE PIECE HIGH IMPACT PLASTIC COVER, CONTINUOUS FROM TOP OF BASE FINISH TO CEILING.
5. SPONGE NEOPRENE PAD
6. STOCK ENDCAP COVER.
7. CONTINUOUS ALUMINUM RETAINER MECHANICALLY FASTENED.
8. INTEGRAL CASING BEAD - FINISH WITH JOINT COMPOUND.

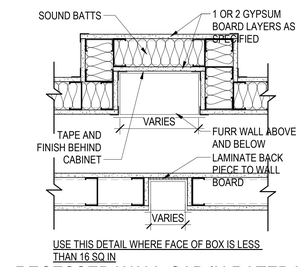
8 CORNER GUARDS

1 1/2" = 1'-0"



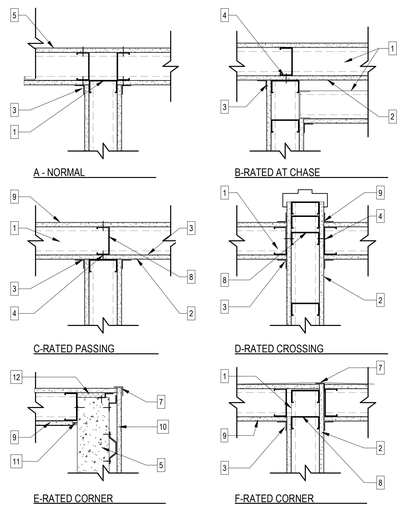
7 ELEC BOXES IN RATED & ACOUSTICAL WALLS

1 1/2" = 1'-0"



6 RECESSED WALL CAB IN RATED WALL

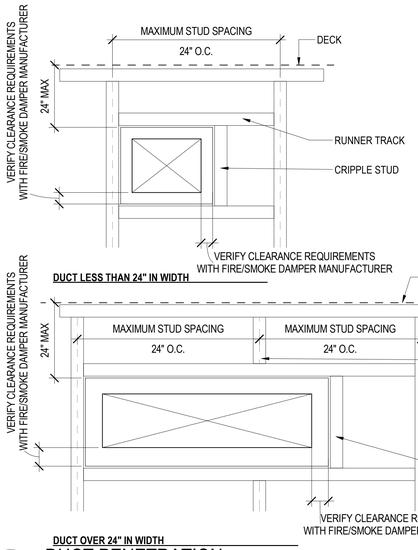
1 1/2" = 1'-0"



1. STUD AND TRACK - CONTINUOUS AT PARTITION HEAD AND BASE.
2. GYPSUM WALL BOARD - CONTINUE UNINTERUPTED THROUGH INTERSECTION TO MAINTAIN FIRE RATING.
3. CORNER REINFORCEMENT PER SPECIFICATIONS - TAPE AND FINISH.
4. AT ABUTTING INTERSECTIONS SECURE STUDS TO HEAD AND FLOOR TRACK AND TO ABUTTING PARTITION FRAMING.
5. RATED MASONRY PARTITION (NEW/EXISTING.)
6. SEE CODE TO PARTITION TYPE FOR STUD SIZE AND SPACING.
7. CORNER BEAD REQUIRED AT ALL OUTSIDE CORNERS. PROVIDE AT ALL RATED PARTITION CORNERS.
8. LOCATE A WALL STUD AT THIS LOCATION AT ALL PARTITION INTERSECTIONS REGARDLESS OF NORMAL STUD SPACING.
9. FIRE RATED PARTITION
10. GYPSUM WALL BOARD ON METAL FURRING.
11. FIRE SAFING SEALANT
12. FIRE SAFING INSULATION BOARD

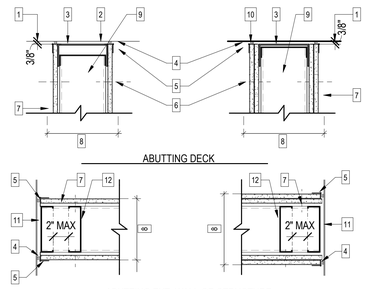
11 PARTITION INTERSECTION

1 1/2" = 1'-0"



10 DUCT PENETRATION

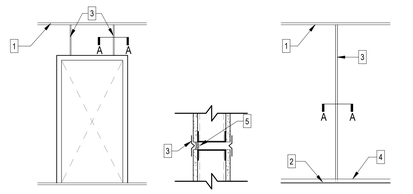
1 1/2" = 1'-0"



1. PERIMETER RELIEF JOINT. HOLD FACE LAYER GYPSUM BOARD, 3/8" MINIMUM BELOW DECK.
2. UNDERSIDE OF STRUCTURAL DECK OR MEMBER.
3. PARTITION DEFLECTION HEAD TRACK. SECURE TO ABUTTING SURFACE.
4. SOUND SEAL MASTIC TO CLOSE JOINT.
5. CASING BEAD REUIRED AT ABUTTING DISSIMILAR MATERIAL.
6. TO ALLOW FOR DECK MOVEMENT, DO NOT SECURE GYPSUM BOARD TO HEAD TRACK.
7. FACE LAYER OF PARTITION HOLD 3/8" FROM ABUTTING DISSIMILAR MATERIAL OR STRUCTURE.
8. SCHEDULED PARTITION. SEE PLANS AND CODE TO PARTITION TYPES FOR DESCRIPTION.
9. VERTICAL STUD - HOLD TOP OF STUD 3/8" BELOW TOP OF HEAD TRACK. ALLOW FOR VERTICAL MOVEMENT WITH FASTENING METHODS PER SPECIFICATION.
10. CLOSE JOINT WITH FIRE-SAFING SEALANT RATED PARTITIONS.
11. ABUTTING DISSIMILAR MATERIAL OR STRUCTURAL MEMBER. ISOLATE PARTITIONS FROM COLUMN WRAPS.
12. STUD REQUIRED REGARDLESS OF NORMAL SPACING.

14 GYP PARTITION - PERIMETER RELIEF

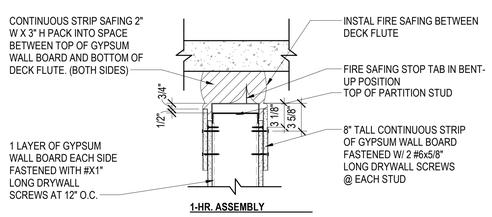
1 1/2" = 1'-0"



1. SCHEDULED CEILING FINISH AND HEIGHT.
2. SCHEDULED FLOOR FINISH.
3. DRYWALL CONTROL JOINT.
4. SCHEDULED BASE FINISH. INSTALL CONTINUOUS ACROSS CONTROL JOINTS.
5. SOUND SEAL MASTIC TO CLOSE GAP BETWEEN GYPSUM BOARD IN ONE FACE OF PARTITION BEHIND CONTROL JOINT.

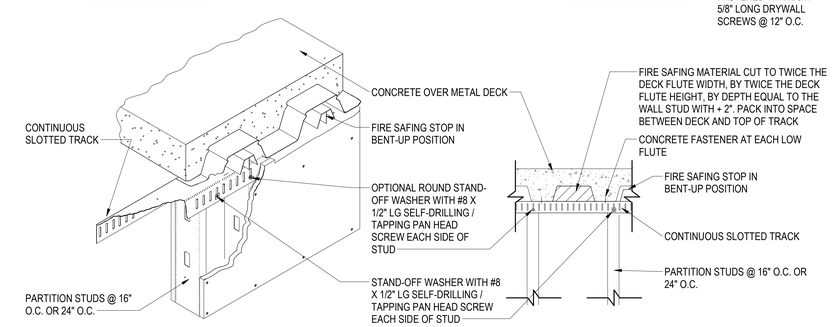
13 GYP BD PARTITION CONTROL JOINTS

1 1/2" = 1'-0"



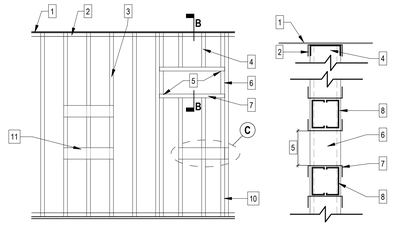
12 TYP MTL STUD PARTITION HEAD DETAIL

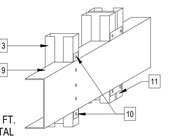
1 1/2" = 1'-0"



15 PART PENETRATION - ACOUSTIC SEALANT

1 1/2" = 1'-0"

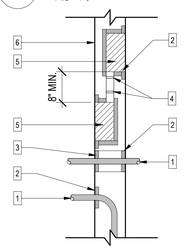




1. STRUCTURAL DECK.
2. RUNNER TRACK SECURED TO STRUCTURE
3. METAL STUD FRAMING, SEE CODE TO PARTITION TYPES.
4. STUD CRIPPLES AT 16" O.C.
5. WALL OPENING.
6. STUD CRIPPLES SECURED TO ADJACENT VERTICAL STUDS.
7. RUNNER TRACK AT SPANS TO 4' SEE ALT. FRAMING FOR ALTERNATE FRAMING (OPENINGS FROM 4 TO 8 FT. SUPPORT RUNNER TRACK ON 2 HORIZONTAL 6" METAL STUDS (SHOWN WITH BROKEN LINES).
8. BACKING PLATE - 6" RUNNER TRACK. NOTCH AND OPENING FLANGES AS SHOWN AT VERTICAL FRAMING MEMBERS.
9. SCREW ATTACH AT EACH STUD.
10. DOUBLE STUDS AT ALL FRAMING OPENINGS MORE THAN 24" WIDE TO EXTEND FROM FLOOR LINE TO BOTTOM OF METAL DECK AT INTERIOR PARTITIONS AND FLOOR LINE TO FLOOR LINE MINIMUM AT EXTERIOR WALLS
11. PROVIDE 20 GA. BACKING PLATE WHERE SPECIFIED.

16 WALL FRAMING AT OPENINGS

1 1/2" = 1'-0"



1. PENETRATING PIPE, CONDUIT, ECT.
2. CLOSER PERIMETER JOINT AROUND PENETRATING WORK. USE SOUND SEAL MASTIC AT NON-RATED PARTITIONS. FOR FIRE-SAFING REQUIREMENTS, SEE SPECIFICATIONS.
3. PIPE SLEEVE. CLOSE PERIMETER JOINT WITH DRYWALL OPENING COMPOUND AT DRYWALL PARTITION, MORTAR AT MASONRY PARTITIONS.
4. OFFSET BACK-TO-BACK BOXES. CONNECT WITH CONDUIT. PLUG CONDUIT AFTER WIRING IS PULLED THROUGH. USE SOUND SEAL MASTIC.
5. WALL BOX FOR MECHANICAL OR ELECTRICAL EQUIPMENT. COAT OUTSIDE SURFACES TO CLOSE JOINTS AND GAPS AND SEAL HOLDS. USE SOUND SEAL MASTIC.
6. PARTITION FACE FOR MATERIAL AND THICKNESS. SEE PARTITION TYPE REFERENCES.

Revisions:	Date:

CONSULTANT

ARCHITECT
A&E DESIGN
124 NORTH 29TH STREET, #100
BILLINGS, MONTANA 59101
406.248.2633
PAUL SIDERIUS, AIA
https://www.ae.design/

ARCHITECT/ENGINEER OF RECORD

A/E:
GDM of Oregon
1308 NE 134th St., Suite A
VANCOUVER, WA 98685
P: 541.426.4723
ADAM GODDIN, PE
WWW.GDM-AE.COM

GDM ARCHITECTS · ENGINEERS

STAMP

STATE OF MONTANA · BILLINGS · ERIC RICHARD HELSEY · 22393 · REGISTERED ARCHITECT

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE: PARTITION DETAILS	PHASE: 100% CONSTRUCTION DOCUMENTS	PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES	PROJECT NUMBER: 568-21-701
APPROVED: Project Director: FOR OFFICIAL USE ONLY (FOUO)	FLS: FULLY SPRINKLERED	LOCATION: FORT MEADE, SOUTH DAKOTA	BUILDING NUMBER: GEN INFO
		ISSUE DATE: 11/05/2024 / CHECKED BY: PSS / DRAWN BY: JPR	DRAWING NUMBER: 00-GI-007

VA FORM 08 - 6231

ICRA DESIGNATION LEGEND

- ICRA CLASS 1
- ICRA CLASS 2
- ICRA CLASS 3
- ICRA CLASS 4

SEE KEY NOTE FOR ADDITIONAL NOTES

ROOM ALLOCATION LEGEND

- PROPOSED NEW TR LOCATION
- PROPOSED EXPANSION TO TR
- EXISTING TR TO BE UPDATED
- ABANDONED ROOM
- ROOM TO REMAIN, NO WORK
- REMODEL REQUIRED DUE TO EHRM IMPACT

FIRE PROTECTION LEGEND

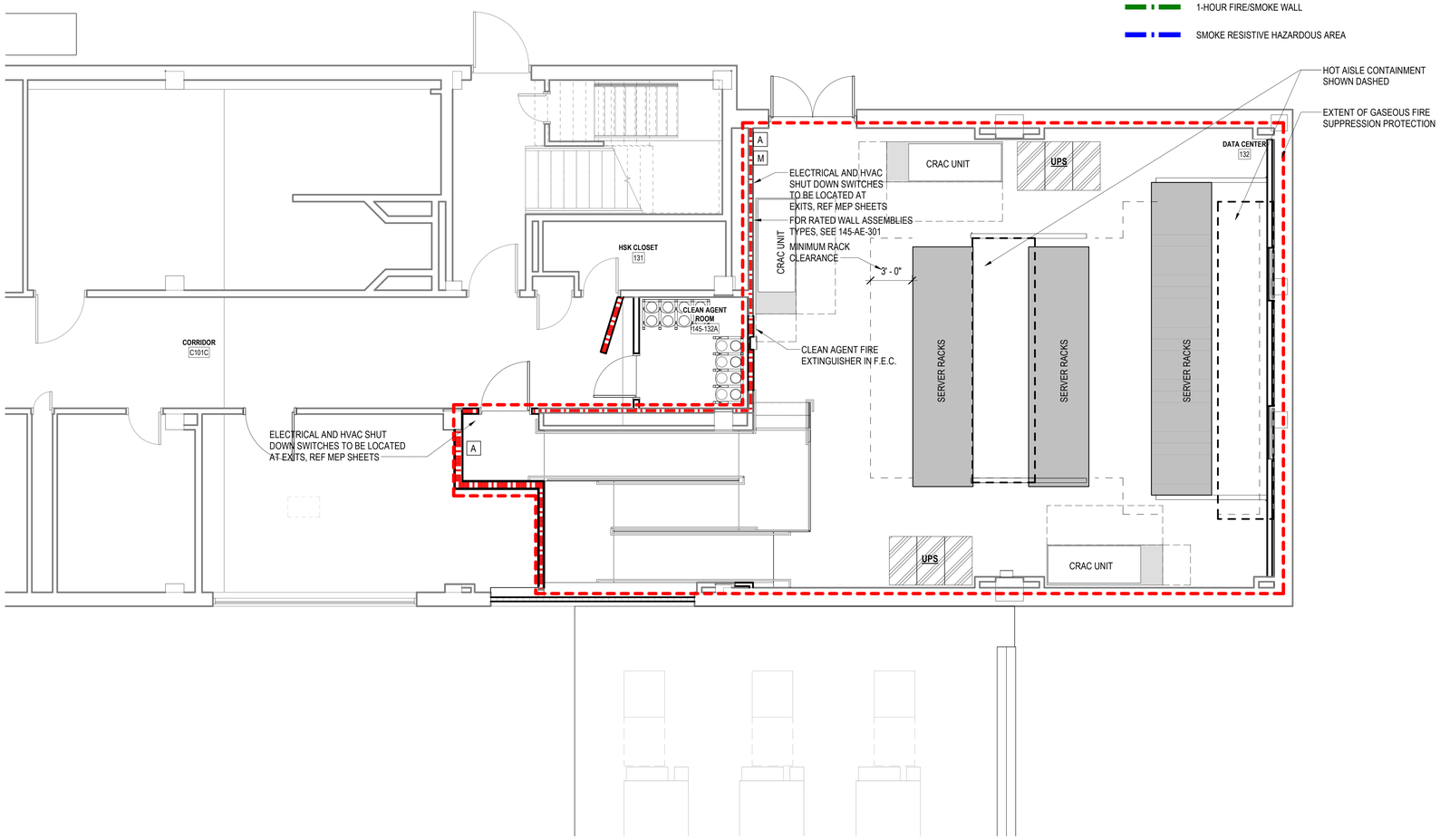
- CLEAN AGENT CYLINDERS
- M — CLEAN AGENT MANUAL PULL STATION
- A — CLEAN AGENT ABORT SWITCH
- F.E.C. — CLEAN AGENT FIRE EXTINGUISHER MINIMUM 2A:10BC IN CABINET MOUNTED AT 48" AFF TO TOP OF CABINET

TELECOMMUNICATION ROOM NOTES

1. PER VA FIRE PROTECTION DESIGN MANUAL 9th EDITION, NOVEMBER 2023 TELECOMMUNICATION ROOMS (TR) PROVIDED WITH WET PIPE SPRINKLERS PROTECTION AS PART OF THE EXISTING BUILDING SPRINKLER SYSTEM.
2. IN BUILDINGS WITHOUT SPINKLER PROTECTION, TELECOMMUNICATION ROOMS WILL NOT BE PROVIDED WITH ANY ADDITIONAL FIRE PROTECTION SUCH AS FIRE RATED WALLS, SMOKE DETECTION, OR A GASEOUS SUPPRESSION SYSTEM.
3. IN AREAS WITH A CEILING HEIGHT CHANGES, SPRINKLERS WILL BE RELOCATED TO THE NEW CEILING HEIGHT IN ACCORDANCE WITH NFPA 13.
4. ALL TELECOMMUNICATION ROOMS WILL BE PROVIDED A CARBON DIOXIDE OR CLEAN AGENT FIRE EXTINGUISHER OUTSIDE OF THE TR AND WITHIN 75 FEET.
5. ALL TELECOMMUNICATION ROOMS TO BE PROTECTED AS LIGHT HAZARD AS DEFINED BY NFPA 13.
6. ALL SPRINKLERS FOR TELECOMMUNCATION ROOMS TO BE QUICK OR STANDARD RESPONSE HEADS AS PERMITTED BY THE VA DESIGN MANUAL. IT IS NOT PERMISSIBLE TO MIX STANDARD AND QUICK RESPONSE HEADS WITHIN THE SAME COMPARTMENT.

LIFE SAFETY LEGEND

- 1-HOUR FIRE WALL
- 2-HOUR FIRE WALL
- 1-HOUR FIRE/SMOKE WALL
- SMOKE RESISTIVE HAZARDOUS AREA



1 145 MCR FIRE PROTECTION PLAN
1/4" = 1'-0"

SCALE: 1/4" = 1'-0"

NORTH

FIRE PROTECTION NOTES

1. THE PLENUM SPACE WITHIN THE MCR IS TO BE FREE OF ALL COMBUSTIBLE MATERIAL OUTSIDE OF:
   - A. CABLES LISTED FOR PLENUM USE
   - B. LISTED PLENUM COMMUNICATIONS RACEWAYS
   - C. LISTED EQUIPMENT POWER CORDS UP TO 4.6 M (15 FT) EACH
   - D. CABLES INSTALLED IN METALLIC RACEWAYS
   - E. INSTALLATIONS IN COMPLIANCE WITH SECTION 300.22(C) OF NFPA 70
   - F. LISTED COOLING HOSES
2. TELECOMMUNICATION SPACES (TS) WILL BE PROVIDED WITH WET PIPE SPRINKLER PROTECTION AND A CLEAN AGENT GASEOUS SUPPRESSION SYSTEM.
3. ALL FIRE EXTINGUISHERS INSIDE DATA CENTER TO BE CLEAN AGENT EXTINGUISHER LOCATED IN A FIRE EXTINGUISHER CABINET.
4. SEE SHEETS 00-GI-000.1, 00-GI-000.2, AND 00-GI-000.3 FOR TEMPORARY FIRE & SMOKE PROTECTION NOTES

FIRE SPRINKLER NOTES

FIRE SPRINKLER NOTES

1. FIRE SPRINKLER SYSTEM SHALL COMPLY WITH THE FOLLOWING:
   - NFPA 13 – 2022
   - NFPA 101 – 2021
   - VA FIRE PROTECTION DESIGN MANUAL 9th EDITION, NOVEMBER 2023
2. SPRINKLER HEADS IN TELECOMMUNICATION SPACE TO MEET THE FOLLOWING CHARACTERISTICS:
   - INTERMEDIATE TEMPERATURE
   - STANDARD RESPONSE
   - FUSIBLE LINK
   - FM APPROVED
3. THE FIRE SPRINKLER SYSTEM PROTECTING THE TELECOMMUNICATION SPACE WILL BE VALVED SEPARATELY FROM OTHER SRINKELR SYSTEMS IN ACCORDANCE WITH NFPA 75.
4. SPRINKLER HEADS LOCATED INSIDE THE COLD AISLE CONTAINMENT AREA TO BE LOCATED SO THE COLD AISLE CONTAINMENT CURTAINS WILL NOT IMPACT THE SPRINKLER SPACING OF THE SPRINKLER SYSTEM.
5. THE TELECOMMUNICATION SPACE TO BE PROTECTED AS ORDINARY HAZARD AS DEFINED BY NFPA 13.
6. SPRINKLERS FOR THE TELECOMMUNICATION SPACE (ROOM 132) TO BE ZONED SEPARATELY FROM REMAINDER OF THE BUILDING. ZONE CONTROL VALVE TO BE LOCATED OUTSIDE OF THE SPACE AND ACCESSIBLE.
7. TR SPRINKLERS TO BE UPRIGHT SPRINKLERS WITH MECHANICAL GUARDS (PER VA HEFP AHJ)

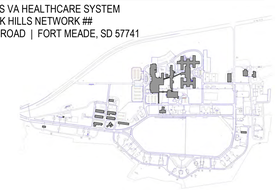
CLEANING AGENT SYSTEM NOTES

1. CLEAN AGENT SUPPRESSSION SYSTEM SHALL COMPLY WITH THE FOLLOWING:
   - NFPA 2001 – 2022
   - NFPA 101 - 2021
   - VA FIRE PROTECTION DESIGN MANUAL 9th EDITION, NOVEMBER 2023
2. THE CLEAN AGENT FIRE EXTINGUISHING SYSTEM WILL BE A FIXED TOTAL FLOODING TYPE UTILIZING CLEAN AGENT DESIGNED TO PROVIDE A UNIFORM CONCENTRATION THROUGHOUT THE PROTECTED SPACES IN ACCORDANCE
3. THE DESIGN CONCENTRATION WITHIN ANY PROTECTED SPACE SHALL NOT EXCEED BY VOLUME THE NO OBSERVABLE ADVERSE EFFECTS LEVEL (NOAEL).
4. THE CLEAN AGENT SHALL HAVE A GLOBAL WARMING POTENTIAL (GWP) OF LESS THAN 4000.
5. NUMBER AND LOCATION OF CLEAN AGENT SYSTEM DISCHARGE NOZZLES TO BE DETERMINED BY CLEAN AGENT SYSTEM CONTRACTOR IN LINE WITH CLEAN AGENT MANUFACTURER LISTING REQUIREMENTS.
6. THE CLEAN AGENT SYSTEM WILL BE PROVIDED TO PROTECT ABOVE AND BELOW THE RAISED FLOOR.
7. THE COLD AISLE CONTAINMENT WILL UTILIZE A LISTED DROP OUT CEILING THAT DOES NOT COMPLY WITH NFPA 75 SECTION 6.7.10.1. THEREFORE, CLEAN AGENT NOZZLES AND SMOKE DETECTION ARE REQUIRED WITHIN THE COLD AISLE CONTAINMENT.

PROJECT KEY PLAN

BLACK HILLS VA HEALTHCARE SYSTEM
BLACK HILLS NETWORK ##
113 COMANCHE ROAD | FORT MEADE, SD 57741

NORTH



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CONSULTANT
ARCHITECT
A&E DESIGN
124 NORTH 29TH STREET, #100
BILLINGS, MONTANA 59101
406.248.2633
PAUL SIDERIUS, AIA
https://www.ae.design/

ARCHITECT/ENGINEER OF RECORD
A/E:
GDM of Oregon
1308 NE 134th St., Suite A
VANCOUVER, WA 98685
P: 541.426.4723
ADAM GODDIN, PE
WWW.GDM-AE.COM

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OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT
U.S. Department of Veterans Affairs

DRAWING TITLE: FIRE PROTECTION NOTES
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LOCATION: FORT MEADE, SOUTH DAKOTA
ISSUE DATE: 11/05/2024
CHECKED BY: PSS
DRAWN BY: JPR
DRAWING NUMBER: 00-GI-008

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VA FORM 08 - 6231

I. GENERAL NOTES:

A. THE FOLLOWING PROVISIONS ARE TO BE USED IN CONJUNCTION WITH VA SPECIAL PROVISIONS, VA SPECIFICATIONS, MAINE DEPARTMENT OF TRANSPORTATION (MDOT) STANDARD SPECFICIATIONS AND ALL OTHER APPLICABLE JURISDICTIONS.
B. ANY REVISIONS TO THESE PLANS MUST BE REVIEWED AND APPROVED BY THE CONTRACTING OFFICER'S REPRESENTATIVE (COR).
C. CONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH THE PROJECT SITE AND BRING ANY DISCREPANCIES TO THE ATTENTION OF THE COR PRIOR TO UNDERTAKING OF THE AFFECTED WORK.
D. ANY DISCREPANCIES IN THESE DRAWINGS, SPECIFICATIONS, NOTES, AND THE SITE CONDITIONS SHALL BE REPORTED TO THE COR, WHO SHALL CORRECT SUCH DISCREPANCIES IN WRITING AFTER THOROUGHLY REVIEWING ANY CHANGES. ANY WORK DONE BY THE CONTRACTOR AFTER THE DISCOVERY OF SUCH DISCREPANCIES SHALL BE DONE AT THE CONTRACTOR'S RISK. THE CONTRACTOR SHALL VERIFY AND COORDINATE THE DIMENSIONS AMONG ALL DRAWINGS PRIOR TO PROCEEDING WITH ANY WORK. IN CASE OF DIFFERENCE BETWEEN DRAWINGS AND SPECIFICATIONS, THE SPECIFICATIONS SHALL GOVERN. PER FAR 52.236-21
E. A PRE-CONSTRUCTION MEETING SHALL BE HELD AT THE SITE WITH THE CONTRACTOR, COR, AND ALL APPLICABLE INSPECTORS PRIOR TO BEGINNING WORK.
F. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL GIVE TIMELY NOTIFICATION TO ALL UTILITY COMPANIES WITH FACILITIES IN THE AREA.
G. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO SAFEGUARD ALL EXISTING STRUCTURES, UTILITIES, LANDSCAPING, AND SURVEY MARKERS. PROVIDE FALSEWORK, SHORING, UNDERPINNING, AND INCLONOMETERS AS IS REQUIRED TO PERFORM THE WORK.
H. ALL CONSTRUCTION SHALL BE DONE IN A SAFE MANNER AND IN STRICT COMPLIANCE WITH ALL REQUIREMENTS OF FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970, AND ALL STATE AND LOCAL SAFETY CODES WHERE APPLICABLE.
I. THE CONTRACTOR IS TO PROVIDE LOCATES AS IS NEEDED TO PERFORM THE WORK.
J. THE CONTRACTOR SHALL NOTIFY THE CONTRACTING OFFICER'S REPRESENTATIVE (COR) AT LEAST 24 HOURS PRIOR TO CONSTRUCTION OF ITEMS REQUIRING INSPECTIONS.
K. PRIOR TO CONSTRUCTION OR INSTALLATION, SHOP DRAWINGS SHALL BE SUBMITTED TO AND APPROVED BY THE COR. FOR ANY MATERIALS OR STRUCTURES PROPOSED.
L. THE EXISTING UNDERGROUND UTILITIES SHOWN HEREON ARE BASED UPON EXISTING RECORD DRAWINGS AND ARE NOT GUARANTEED TO BE ACCURATE, NOR ALL INCLUSIVE.
M. ALL UTILITIES MUST BE VERIFIED PRIOR TO CONSTRUCTION.
N. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT, IN PLACE, ALL UTILITIES AND/OR STRUCTURES WHETHER SHOWN OR NOT SHOWN ON THIS PLAN. PROVIDE FALSEWORK AS IS REQUIRED TO TEMPORARILY SUPPORT ALL MATERIAL. DAMAGE DUE TO THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
O. DO NOT CUT OR DAMAGE EXISTING UTILITIES, STRUCTURAL MEMBERS, OR BUILDING FOUNDATIONS. HAND EXCAVATE IN LOCATIONS WHERE EXISTING UTILITIES ARE SUBJECT TO DAMAGE.
P. CONTRACTOR SHALL USE DYED CONCRETE FOR CONCRETE ENCASED CONDUITS. DYE COLOR WAYS SHALL FOLLOW APWA UNIFORM COLOR CODE FOR MARKING UNDERGROUND FACILITIES.
Q. CONTRACTOR SHALL NOTIFY THE COR AND THE ENGINEER OF RECORD PRIOR TO EXPOSING ANY WET UTILITIES (I.E. WATER, SEWER, DRAINAGE, GAS, ETC.) FROM NOVEMBER 1ST TO APRIL 30TH. THE COR SHALL DETERMINE IF THE EXPOSURE OF THE UTILITY IS AT RISK OF FREEZING IF UNCOVERED. THE COR WILL HAVE ULTIMATE DETERMINATION IF THE CONTRACTOR CAN PROCEED TO EXPOSE THE WET UTILITY.

II. ADDITIONAL PERMITS

A. VA SPECIFIC PERMITS MAY BE REQUIRED FOR ON-SITE WORK INCLUDING ALL RETAINING WALLS, GRADING, AND EROSION CONTROL. ADHERENCE TO ALL CONDITIONS OF THESE PERMITS IS REQUIRED AS A PART OF THIS PLAN. COORDINATE WITH COR.
B. VA SPECIFIC PERMITS MAY BE REQUIRED FOR SIDEWALK INSTALLATION AS WELL AS CURB AND GUTTER REMOVAL AND DRIVEWAY CONSTRUCTION WHEN CONSTRUCTED AT BUILDING PERMIT STAGE. COORDINATE WITH C.O.R.
C. CONTRACTOR IS RESPONSIBLE FOR OBTAINING APPROVAL FOR ANY CONSTRUCTION PERMIT, VA SPECIFIC PERMITS, ETC. REQUIRED FOR THE SCOPE OF WORK TO BE COMPLETED.

III. EROSION CONTROL NOTES

A. WHEN CONSTRUCTION OPERATIONS ARE SUCH THAT DEBRIS FROM THE WORK IS DEPOSITED ON THE STREETS, THE CONTRACTOR SHALL IMMEDIATELY REMOVE ANY DEPOSITS OR DEBRIS WHICH MAY ACCUMULATE ON THE ROADWAY SURFACE. IF THE CONTRACTOR FAILS TO KEEP THE STREETS FREE FROM DEPOSITS AND DEBRIS RESULTING FROM THE WORK, THE CONTRACTOR SHALL, UPON ORDER OF THE COR, PROVIDE FACILITIES FOR, AND REMOVE ALL CLAY, DIRT, OR OTHER DEPOSITS FROM THE TIRES OR BETWEEN WHEELS BEFORE TRUCKS OR OTHER EQUIPMENT WILL BE ALLOWED TO TRAVEL OVER PAVED STREETS. SHOULD THE CONTRACTOR FAIL OR REFUSE TO CLEAN THE STREETS IN QUESTION, OR THE TRUCKS OR EQUIPMENT IN QUESTION, COR MAY ORDER THE WORK SUSPENDED AT THE CONTRACTORS RISK UNTIL COMPLIANCE WITH THE CONTRACTOR'S OBLIGATIONS IS ASSURED, OR THE COR MAY ORDER THE STREETS IN QUESTION CLEANED BY OTHERS AND SUCH COSTS INCURRED IN ACHIEVING COMPLIANCE WITH THESE REQUIREMENTS, INCLUDING CLEANING OF THE STREETS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
B. THE CONTRACTOR SHALL PROTECT EXISTING DRAINAGE STRUCTURES USING ACCEPTABLE METHODS AND MATERIALS AS SHOWN IN THE CONSTRUCTION DOCUMENTS. IF THE METHODS AND MATERIALS AS SHOWN ON THE PLAN ARE NOT ADEQUATE, THE COR MAY REQUIRE ADDITIONAL/ALTERNATIVE METHODS FOR EROSION CONTROL AND/OR PROTECTION OF EXISTING DRAINAGE STRUCTURES. ANY DAMAGE CAUSED TO THE STORMWATER SYSTEM AS A RESULT OF THE WORK OUTLINED ON THIS PLAN SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. RESOLVING SAID DAMAGE MAY INCLUDE, BUT NOT BE LIMITED TO, THE CLEANING OF THE DRAINAGE SYSTEM IN QUESTION BY THE CONTRACTOR.
C. WATERING PROVISIONS WHEN APPLICABLE MUST BE IN PLACE TO PREVENT DUST FROM BECOMING AIR BORNE. VIOLATION OF THIS CONDITION WILL RESULT IN A STOP WORK ORDER UNTIL CORRECTED.
D. FILL THAT WILL SUPPORT A STREET SECTION OR OTHER STRUCTURES SHALL BE PLACED UNDER THE INSPECTION OF A STATE LICENSED GEOTECHNICAL ENGINEER HIRED BY THE GENERAL CONTRACTOR. SOIL TO BE PLACED SHALL BE TESTED AND COMPACTED TO 95% OF ITS MAXIMUM DENSITY. ENGINEER SHALL DOCUMENT EXISTING SITE CONDITIONS, SOIL AND ITS PLACEMENT AND ALLOWABLE BEARING CAPACITY SUBMITTED.
E. A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IS NOT REQUIRED FOR THIS PROJECT.

IV. EROSION CONTROL MEASURES

A. MINIMUM EROSION CONTROL MEASURES SHALL INCLUDE:
1. CONSTRUCTION ENTRANCE (WHEN APPLICABLE)
2. PERIMETER EROSION/SEDIMENTATION CONTROL
3. PROTECTION OF CATCH BASINS
4. STABILIZATION OF EXPOSED SOILS
B. ALL EROSION CONTROL SHALL BE IN PLACE PRIOR TO CLEARING. THE CONTRACTOR SHALL CALL THE COR FOR INITIAL EROSION CONTROL INSPECTION PRIOR TO START OF WORK, AS DESCRIBED BELOW.
C. EROSION CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES TO THE APPROVAL OF THE COR.
D. CALL FOR INSPECTION UPON COMPLETION OF:
1. STAKING OF CLEARING LIMITS
2. INSTALLATION OF EROSION CONTROL AND PRIOR TO SITE GRADING
3. PRIOR TO REMOVAL OF EROSION CONTROL DEVICES
E. ALL MATERIAL REMOVED FROM SITE SHALL BE PLACED ONLY AT A PERMITTED SITE. VERIFY LOCATION OF DESTINATION OF MATERIAL PRIOR TO EXPORTATION.
F. OFFSITE TRAFFIC CONTROL PROVISIONS AS APPROVED BY THE CITY TRAFFIC ENGINEER SHALL BE ADHERED TO AT ALL TIMES.
G. TREES TO BE REMOVED SHALL BE CLEARLY MARKED FOR REMOVAL. TREES TO BE SAVED SHALL BE FENCED WITH BARRICADE FENCE AT THE DRIP LINE (OUTER EDGE OF TREE BRANCHES) TO KEEP CONSTRUCTION VEHICLES FROM COMPACTING ROOT ZONE AND KILLING TREES. THIS FENCING SHALL BE MAINTAINED UNTIL CONSTRUCTION ENDS.
H. SOME VEGETATION, TREES, AND PLANTS MAY BE HISTORICAL IN NATURE AND WILL REQUIRE SPECIAL PERMITS AND SPECIAL PROTECTION WITH TEMPORARY WATERING AT THE RESPONSIBILITY OF THE CONTRACTOR.

V. EARTHWORK AND COMPACTION

A. ALL ORGANIC AND OTHER UNSUITABLE MATERIAL SHALL BE REMOVED UNDER AREAS TO BE PAVED AND FOR THE FULL WIDTH OF THE RIGHT-OF-WAY.

B. SUITABLE UTILITY TRENCH BACKFILL SHALL BE USED AND COMPACTED AS DIRECTED BY THE COR. BACKFILL IN ACCORDANCE WITH THE SOUTH DAKOTA DEPARTMENT OF TRANSPORTATION (SDDOT) STANDARD SPECIFICATIONS BOOK AND VA EARTHWORK SPECIFICATIONS.
1. BEDDING MATERIAL ACCORDING TO SDDOT AND VA SPECIFICATIONS SHALL BE PLACED AT THE BOTTOM OF THE TRENCH.
2. WHERE BACKFILLING A UTILITY TRENCH, PLACE BACKFILL EQUALLY ON OPPOSITE SIDES OF THE PIPE AT THE SAME TIME AND IN LAYERS, THE FIRST LAYER SHALL COME UP TO THE HALF THE DIAMETER OF THE PIPE AND THEN NO GREATER THAN 8 INCHES DEEP FROM THE TOP OF PIPE ONWARD.
3. ALL TRENCHES SHALL BE BACKFILLED AND COMPACTED TO 98% STANDARD PROCTOR ON THIS PROJECT PER ASTM T-180. TESTING SHALL BE VERIFIED BY GEOTECHNICAL ENGINEER.
4. MAINTAIN AT LEAST 5 FEET OF COVER UNLESS TRIMMING FOR FINAL GRADE OR OTHERWISE NOTED ON PLANS OR DETAILS.
5. MAINTAIN THE LINE AND GRADE OF THE PIPE DURING THE BACKFILLING OPERATION.
C. EXISTING TREE REMOVAL, RELOCATION, MITIGATION SHALL BE COORDINATED WITH THE LANDSCAPE ARCHITECT AND/OR ARBORIST.
D. IF WORKERS ENTER ANY TRENCH OR OTHER EXCAVATION FOUR FEET OR MORE IN DEPTH THAT DOES NOT MEET THE OPEN PIT REQUIREMENTS OF 29 CFR 1926 SUBPART P, IT SHALL BE SHORED AND CRIBBED. ALL TRENCH SAFETY SYSTEMS SHALL MEET THE REQUIREMENTS OF OSHA AND VA SAFETY REQUIREMENTS SECTION 01-35-26. THE CONTRACTOR ALONE SHALL BE RESPONSIBLE FOR ALL WORKER SAFETY. THE DESIGNER AND/OR ENGINEER OF RECORD, NOR THE VA ASSUMES ANY RESPONSIBILITY.
E. VERTICAL STANDPIPES SHALL BE INSTALLED AT JOINTS AND FITTINGS TO ALLOW SURVEYOR TO COLLECT ASBUILT DATA WHEN TRENCH MUST BE BACKFILLED PRIOR TO SURVEYOR VISIT.
F. CONTRACTOR SHALL RECEIVE VERBAL OR WRITTEN APPROVAL TO BACKFILL TRENCH FROM COR PRIOR TO DOING SO. IF TRENCH MUST BE BACKFILLED PRIOR TO APPROVAL BY COR, CONTRACTOR IS AT RISK TO EXCAVATE ANY PORTION OF THE TRENCH FOR VISUAL INSPECTION.

VI. PAVING

A. GENERAL:
1. ALL UNDERGROUND UTILITIES SHALL BE COMPLETED PRIOR TO CONSTRUCTION OF AGGREGATE BASE COARSE.
2. ALL EXISTING PAVEMENT, CUT OR DAMAGED BY CONSTRUCTION SHALL BE PROPERLY RESTORED AT THE CONTRACTOR'S EXPENSE.
3. FOR ANY PROPOSED CONNECTIONS OR RESTORATIONS, THE EXISTING EDGE OF PAVEMENT SHALL BE SAW CUT.
4. ADDITIONAL REMOVAL AND REPLACEMENT OF PAVEMENT MAY BE REQUIRED TO PROVIDE PROPER TRANSITION/CROWN AS DIRECTED BY COR.
5. PAVEMENT RESTORATION SHALL BE CONSTRUCTED IN ACCORDANCE WITH VA TECHNICAL SPECIFICATIONS AND REQUIREMENTS.
6. FINAL RESTORATION LIMITS SHALL BE DETERMINED IN THE FIELD BY COR.
B. MATERIAL:
1. SUBBASE COURSE SHALL BE 12" AND MEET SDDOT STANDARD SPECIFICATIONS.

2. BASE COURSE SHALL BE 6" MIN THE SDDOT STANDARD SPECIFICATIONS.
3. ASPHALT SURFACES SHALL MEET SUPERPAVE MIX CRITERIA PER AASHTO M 323 AND SDDOT STANDARD SPECIFICATIONS, UNLESS OTHERWISE SPECIFIED ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COLLECTING ALL TACK, PRIME, ASPHALT, AND CONCRETE TICKETS AND SUBMITTING THEM TO THE ENGINEER OF RECORD PRIOR TO PROJECT CLOSEOUT.
C. INSTALLATION:
1. SPREAD THE SUBBASE MATERIAL EVENLY AND COMPACT TO AT LEAST 95% OF THE MAXIMUM UNIT WEIGHT, AT A LESS-THAN-OPTIMUM MOISTURE CONTENT, FOR ITS ENTIRE THICKNESS. PLACE THE SUBBASE IN LAYERS NO GREATER THAN 18 INCHES. WHERE THE REQUIRED DEPTH IS MORE THAN 18 INCHES, PLACE THE MATERIAL IN LAYERS OF EQUAL THICKNESS. CONSTRUCT THE SUBBASE TO PLAN GRADE WITHIN A TOLERANCE OF PLUS 1 INCH. DO NOT PLACE SUBBASE ON FROZEN, SOFT, UNSTABLE, OR RUTTED SUBGRADE. IF SUBBASE MATERIAL BECOMES MIXED WITH SUBGRADE MATERIAL, REMOVE, DISPOSE OF, AND REPLACE THE SUBBASE MATERIAL AT NO ADDITIONAL COST TO THE CLIENT.
2. COMPACT THE AGGREGATE LAYERS TO A UNIFORM THICKNESS, NO LESS THAN 3 INCHES AND NO GREATER THAN 8 INCHES. IF PLACING AGGREGATE BASE IN A LAYER LESS THAN 3 INCHES, BLEND THE NEW AGGREGATE BASE MATERIAL WITH THE LAYER BELOW TO ENSURE A TOTAL OF 6 INCHES. BLENDING MUST BE PERFORMED TO ENSURE THAT THE NEW AGGREGATE BASE MATERIAL IS UNIFORMLY MIXED WITH THE LAYER BELOW. COMPACT EACH LAYER OF AGGREGATE BASE TO AT LEAST 98% OF THE MAXIMUM UNIT WEIGHT AT A MOISTURE CONTENT NO GREATER THAN OPTIMUM FOR AGGREGATE BASE UNDER HOT MIX ASPHALT (HMA) PAVEMENT. COMPACT EACH LAYER OF AGGREGATE BASE TO AT LEAST 95% OF THE MAXIMUM UNIT WEIGHT AT A MOISTURE CONTENT NO GREATER THAN OPTIMUM FOR AGGREGATE BASE UNDER CONCRETE PAVEMENT.
3. INSTALLATION OF THE WEARING SURFACE SHALL CONFORM WITH THE REQUIREMENTS OF THE V.A. AND THE SDDOT STANDARD SPECIFICATIONS.
D. HMA WEATHER LIMITATIONS.
1. PLACE HMA IN ACCORDANCE WITH THE FOLLOWING RESTRICTIONS:
a) DO NOT PLACE HMA OR APPLY BOND COAT WHEN MOISTURE ON THE EXISTING SURFACE PREVENTS CURING.
b) DO NOT PLACE HMA UNLESS THE TEMPERATURE OF THE SURFACE BEING PAVED IS AT LEAST 50°F FOR WEARING COURSES AND 40°F FOR BASE AND BONDING COURSES. THERE SHALL BE NO FROST ON OR IN THE GROUND OR ON THE SURFACE BEING PAVED, UNLESS OTHERWISE APPROVED BY THE ENGINEER IN WRITING.

E. TESTING:
1. THE FINISHED SURFACE OF THE BASE COURSE AND THAT OF THE WEARING SURFACE SHALL NOT VARY MORE THAN 1/4" FROM THE TEMPLATE. ANY IRREGULARITIES EXCEEDING THIS LIMIT SHALL BE CORRECTED.
2. DENSITY TESTS SHALL BE TAKEN BY AN INDEPENDENT TESTING LABORATORY, CERTIFIED BY THE STATE OF SOUTH DAKOTA, WHERE DIRECTED BY THE COR.
3. ALL TESTING COSTS (PAVING) SHALL BE PAID FOR BY THE CONTRACTOR.

F. PAVEMENT MARKINGS AND SIGNAGE SHALL BE IN ACCORDANCE WITH THE SDDOT STANDARD SPECIFICATIONS AND THE VA STANDARD SPECIFICATIONS.

VII. CONCRETE AND FLAT WORK

A. CONCRETE SHALL BE IN ACCORDANCE WITH THE SDDOT AND THE VA STANDARD SPECIFICATIONS.
B. ALL CONCRETE SHALL BE A MINIMUM OF 3,000 PSI WITHIN 28 DAYS UNLESS OTHERWISE SPECIFIED ON THE PLANS OR DETAILS.
C. THE REMOVAL OF EXISTING CONCRETE SHALL BE SAWCUT AND RUBBLE DISPOSED OF.
D. ALL SIDEWALKS AND CURB RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FEDERAL ARCHITECTURAL BARRIERS ACT ACCESSIBILITY STANDARDS (ABAAS) AND THE VA BARRIER FREE DESIGN STANDARDS PG-18-13 REV 11-1-2018.CONCRETE TICKETS SHALL BE COLLECTED AND COMPILED BY THE CONTRACTOR AND PRESENT TO THE COR AND ENGINEER PRIOR TO COMPLETION OF THE PROJECT.
E. FORMWORK SHALL BE INSPECTED PRIOR TO POURING.
F. TESTING SHALL CONFORM TO THE SDDOT AND VA STANDARD SPECIFICATIONS.
G. FLOWABLE FILL IS NOT PERMITTED FOR CONDUIT ENCASEMENT. ALL CONDUIT ENCASEMENT IS TO ACHIEVE 3000 PSI WITHIN 28 DAYS.
H. COLD WEATHER CONCRETE WORK. THE FOLLOWING REQUIREMENTS FOR PLACING CONCRETE SHALL BE IN EFFECT FROM NOVEMBER 1 TO APRIL 1:
1. THE COR SHALL BE NOTIFIED AT LEAST 24 HOURS PRIOR TO ANY CONCRETE PLACEMENT.
2. WEATHER PERMITTING, ALL CONCRETE PLACEMENT SHALL BE COMPLETED NO LATER THAN 2:00 PM EACH DAY.
3. WHERE FORMS HAVE BEEN PLACED AND THE SUBGRADE HAS BEEN SUBJECTED TO SEVERE FROST, NO CONCRETE SHALL BE PLACED UNTIL THE GROUND IS COMPLETELY THAWED. AT THAT TIME, THE FORMS SHALL BE ADJUSTED AND SUBGRADE REPAIRED AS DETERMINED BY THE ENGINEER.
I. THE SLUMP FOR STANDARD CONCRETE USED FOR SIDEWALKS SHALL NOT EXCEED FOUR INCHES +/- ONE INCH.

VIII. MAINTENANCE OF TRAFFIC

A. MAINTENANCE OF TRAFFIC PLAN, PROVIDED BY THE CONTRACTOR, SHALL INCLUDE PROVISIONS FOR PEDESTRIAN AND VEHICULAR TRAFFIC. THE FOLLOWING ARE MINIMUM REQUIREMENTS.
1. THE SAFE WALK ROUTE FOR PEDESTRIANS WITHIN THE VICINITY OF THE CONSTRUCTION ZONE SHALL BE MAINTAINED. IF THE CURRENT WALKING SURFACE CANNOT BE MAINTAINED, THEN A TEMPORARY ROAD-ROCK COLD PATCH 4' WALKWAY SHALL BE CREATED.
2. THE SAFE WALK ROUTE SHALL BE SEPARATED FROM THE CONSTRUCTION ACTIVITY BY THE 4' HIGH ORANGE CONSTRUCTION FENCE FOR THE ENTIRE LENGTH OF THE PROJECT OR THE LENGTH OF THE WALK ROUTE, WHICHEVER IS LESS.
3. HOURS OF OPERATION SHALL BE DESIGNATED PRIOR TO START OF CONSTRUCTION AND ALL CONSTRUCTION EQUIPMENT AROUND ANY DESIGNATED CROSSWALK SHALL CEASE TO OPERATE AFTER HOURS OR DURING TIMES BLOCKS THAT ARE DESIGNATED PRIOR.
4. ALL CONSTRUCTION EQUIPMENT ADJACENT TO A DESIGNATED WALK ROUTE SHALL CEASE OPERATING UNLESS SATISFACTORILY BARRICADED FROM THE WALK ROUTE. IN THE CASE THAT A DESIGNATED CROSSING OR ANY PORTION OF THE DESIGNATED WALK ROUTE CANNOT BE MAINTAINED, THEN THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE PARTIES, A MINIMUM OF TEN (10) WORKING DAYS PRIOR TO CLOSING THAT ROUTE IN ORDER THAT AN ALTERNATE CROSSING/ROUTE CAN BE ESTABLISHED.
5. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL ANY NECESSARY TEMPORARY PAVEMENT, ROAD ROCK, PAVEMENT MARKING AND SIGNAGE AND/OR ANY PEDESTRIAN SIGNALIZATION AND/OR SIGNAL MODIFICATION TO ACCOMMODATE AN EXISTING OR ALTERNATE WALK ROUTE.
6. THE CONTRACTOR SHALL IS RESPONSIBLE FOR OBTAINING AN APPROVED MAINTENANCE OF TRAFFIC PLAN (MOT).
7. THE CONTRACTOR SHALL PROVIDE AN EMERGENCY VEHICLE ACCESS PLAN IF ANY ROADS OR ACCESS POINTS ARE PROPOSED TO BE CLOSED.
8. THE CONTRACTOR SHALL NOT LEAVE ANY TRENCHES OPEN UNATTENDED OR AFTER HOURS. ALL OPENINGS SHALL BE BACKFILLED OR COVERED BY APPROPRIATE PLATES AND BARRICADES.
9. PROVIDE TEMPORARY STAIRS, TEMPORARY RAMPS, TEMPORARY HANDRAILS, OR OTHER PEDESTRIAN AIDS AS IS REQUIRED TO MAINTAIN EMERGENCY EGRESS ROUTES AND ADA CONDITIONS AT ALL LOCATION AT ALL TIMES.

IX. PROJECT CLOSEOUT

A. CLEANING UP:
1. DURING CONSTRUCTION, THE PROJECT SITE AND ALL ADJACENT AREAS SHALL BE MAINTAINED IN A NEAT AND CLEAN MANNER, AND UPON FINAL CLEAN-UP, THE PROJECT SITE SHALL BE LEFT CLEAR OF ALL SURPLUS MATERIAL OR TRASH. THE PAVED AREAS SHALL BE SWEPT BROOM CLEAN.
2. THE CONTRACTOR SHALL RESTORE OR REPLACE, WHEN AND AS DIRECTED, ANY PUBLIC OR PRIVATE PROPERTY DAMAGED BY HIS WORK, EQUIPMENT, OR EMPLOYEES, TO A CONDITION AT LEAST EQUAL TO THAT EXISTING IMMEDIATELY PRIOR TO THE BEGINNING OF OPERATIONS. TO THE END, THE CONTRACTOR SHALL DO AS REQUIRED, ALL NECESSARY HIGHWAY, DRIVEWAY, WALK AND LANDSCAPING WORK. SUITABLE MATERIALS AND METHODS SHALL BE USED FOR SUCH RESTORATION.
3. WHERE MATERIAL OR DEBRIS HAS WASHED OR FLOWED INTO OR HAVE BEEN PLACED IN WATER COURSES, DITCHES, DRAINS, CATCH BASINS, OR ELSEWHERE AS A RESULT OF THE CONTRACTOR'S OPERATIONS, SUCH MATERIAL OR DEBRIS SHALL BE REMOVED AND SATISFACTORILY DISPOSED OF DURING THE PROGRESS OF THE WORK, AND THE AREA KEPT IN CLEAN AND NEAT CONDITION.
B. ALL PROPERTY MONUMENTS OR PERMANENT REFERENCES, REMOVED OR DESTROYED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE RESTORED BY A LICENSED AND REGISTERED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE. REFER TO SDDOT STANDARD SPECIFICATIONS.
C. ALL UNPAVED SURFACES SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THAT WHICH EXISTED PRIOR TO CONSTRUCTION.
D. PROJECT RECORD DOCUMENTS
1. DURING THE DAILY PROGRESS OF THE JOB, THE CONTRACTOR SHALL RECORD ON HIS SET OF CONSTRUCTION DRAWINGS THE EXACT LOCATION, LENGTH AND ELEVATION OF ALL FITTINGS, VALVES, AND ANY FACILITY NOT BUILT EXACTLY ACCORDING TO PLANS.
2. THE CONTRACTOR SHALL COLLECT ALL TACK, PRIME, AND ASPHALT TICKETS (ALONG WITH VOLUMES USED) UPON DELIVERY OF MATERIAL AND MAINTAIN A RECORD OF THE TICKETS AND PRESENT THEM TO THE COR AND ENGINEER. THE CONTRACTOR SHALL ALSO MAINTAIN A RECORD OF ALL MATERIAL PROCTOR TEST REPORTS, DENSITY TEST REPORTS, CONCRETE TEST REPORTS, AND ANY OTHER OBLIGATORY TESTS THAT ARE PREFORMED AND SHALL PRESENT THEM TO THE COR AND ENGINEER PRIOR TO CONSTRUCTION COMPLETION.
3. UPON COMPLETION OF CONSTRUCTION, AND PRIOR TO FINAL PAYMENT, THE CONTRACTOR SHALL SUBMIT TO THE COR AND ENGINEER OF RECORD ONE COMPLETE SET OF ALL "AS-BUILT" CONTRACT DRAWINGS. THESE DRAWINGS SHALL BE MARKED TO SHOW "AS-BUILT" CONSTRUCTION CHANGES AND DIMENSIONS, LOCATIONS AND ELEVATIONS OF ALL IMPROVEMENTS.
4. "AS-BUILT" INFORMATION ON GRAVITY SEWERS MUST CONTAIN LOCATION OF SERVICE LATERALS. STATIONING OF BOTH THE WYE AND THE SERVICE END MUST ALSO BE INCLUDED.
5. A SECTION THROUGH ANY DUCT BANKS SHALL BE PROVIDED ON THE ASBUILTS WITH EACH CONDUIT SIZE AND MATERIAL LABELED ALONG WITH THE CONTENT OF THE CONDUIT.
6. ALL "AS-BUILT" INFORMATION ON PLANS SHALL BE CERTIFIED BY A PROFESSIONAL SURVEYOR AND MAPPER.
7. CONTRACTOR SHALL SUBMIT TO THE COR AND ENGINEER A RECORD OF SITE INSPECTIONS LOGBOOK INCLUDING CRITICAL TASKS PERFORMED, WEATHER CONDITIONS, CONFLICTS FOUND, MEANS AND METHODS USED, AND STAFF AND EQUIPMENT PRESENT.

Revisions:	Date:
65% REV 1 - CONSTRUCTION DOCUMENTS	07/01/2024
95% REV 1 - CONSTRUCTION DOCUMENTS	08/26/2024

CONSULTANT
CIVIL ENGINEER:
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
CELYN DEZMAIN, PE

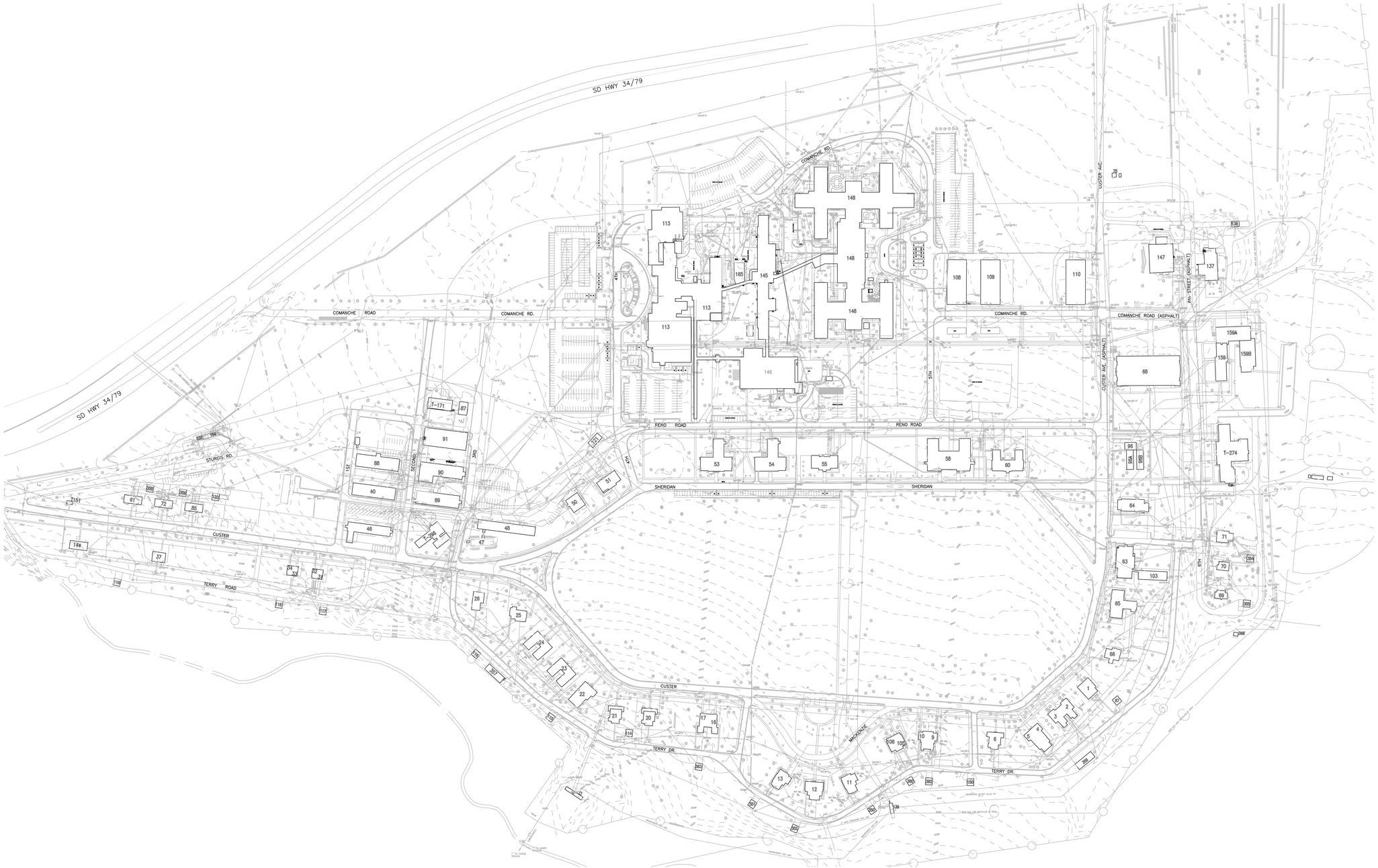
ARCHITECT/ENGINEER OF RECORD
A/E:
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE
GDM ARCHITECTS • ENGINEERS

STAMP
CELYN J. DEZMAIN LICENSE No. 84232 STATE OF FLORIDA PROFESSIONAL ENGINEER

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT
VA U.S. Department of Veterans Affairs

DRAWING TITLE: CIVIL - GENERAL NOTES
PHASE: 100% - CONSTRUCTION DOCUMENTS
PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADE
PROJECT NO.: 568-21-701
BUILDING NO.:
APPROVED: VA PROJECT DIRECTOR: FOR OFFICIAL USE ONLY (FOUO)
FLS: FULLY SPRINKLERED
LOCATION: FORT MEADE, SOUTH DAKOTA
ISSUE DATE: 11/05/2024
CHECKED: CD
DRAWN: DT
DRAWING NO.: CI0001

VA FORM 08 - 6231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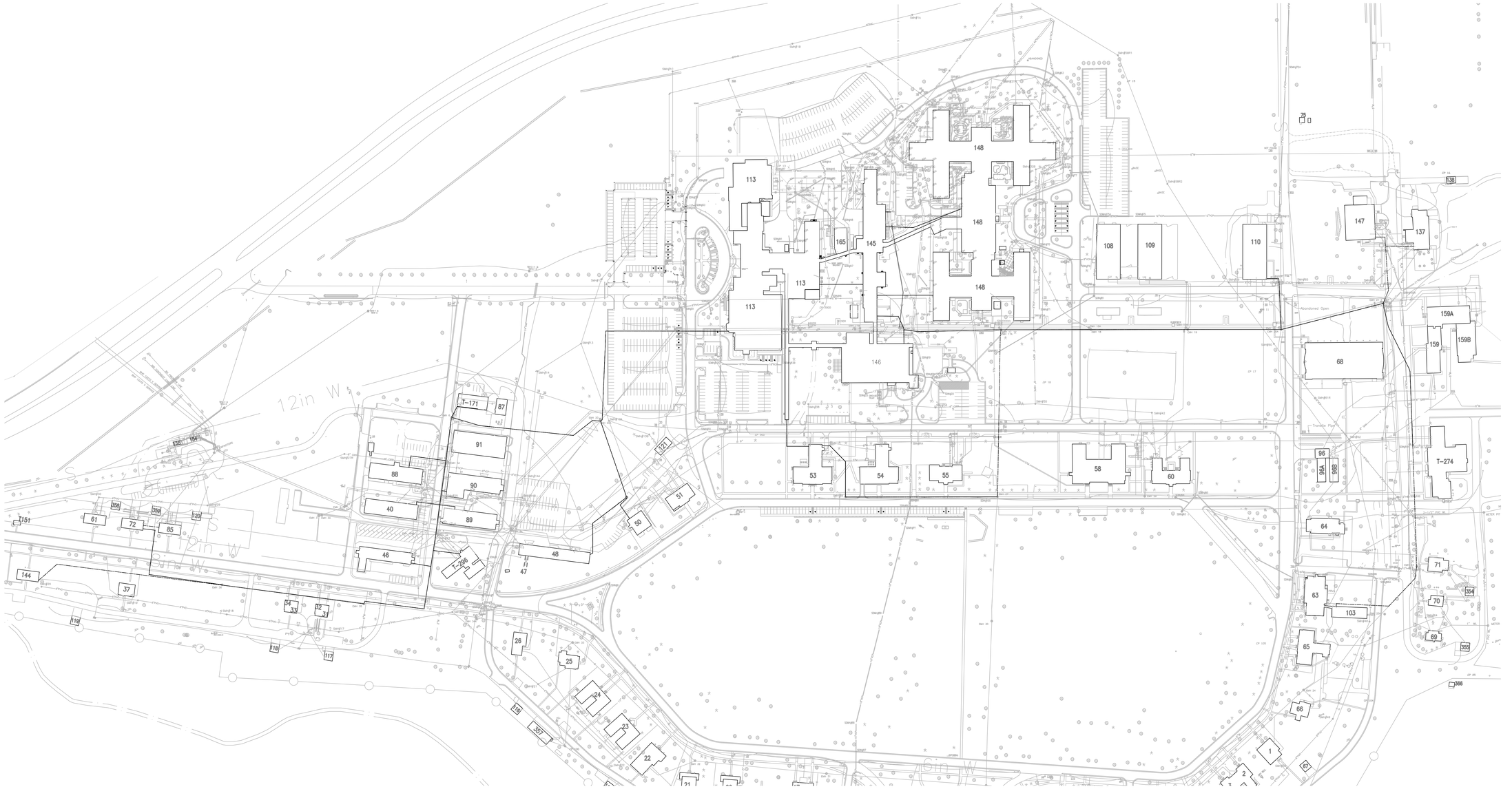

1 OVERALL FIBER OPTICS SITE PLAN

SCALE: 1"=120'-0"

0 60 120 240'

NORTH

	65% REV 1 - CONSTRUCTION DOCUMENTS	07/01/2024
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	Revisions:	Date:

CONSULTANT

CIVIL ENGINEER:
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
CELYN DEZMAIN, PE

ARCHITECT/ENGINEER OF RECORD

A/E:
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP

CELYN J. DEZMAIN LICENSE No. 84232 STATE OF FLORIDA PROFESSIONAL ENGINEER

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE: CIVIL - OVERALL FIBER OPTICS SITE PLAN

PHASE: 100% - CONSTRUCTION DOCUMENTS

PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADE

PROJECT NO.: 568-21-701

BUILDING NO.:

APPROVED: VA PROJECT DIRECTOR: FOR OFFICIAL USE ONLY (FOUO)

FLS: FULLY SPRINKLERED

LOCATION: FORT MEADE, SOUTH DAKOTA

ISSUE DATE: 11/05/2024 | CHECKED: CD | DRAWN: DT

DRAWING NO.: CU0100

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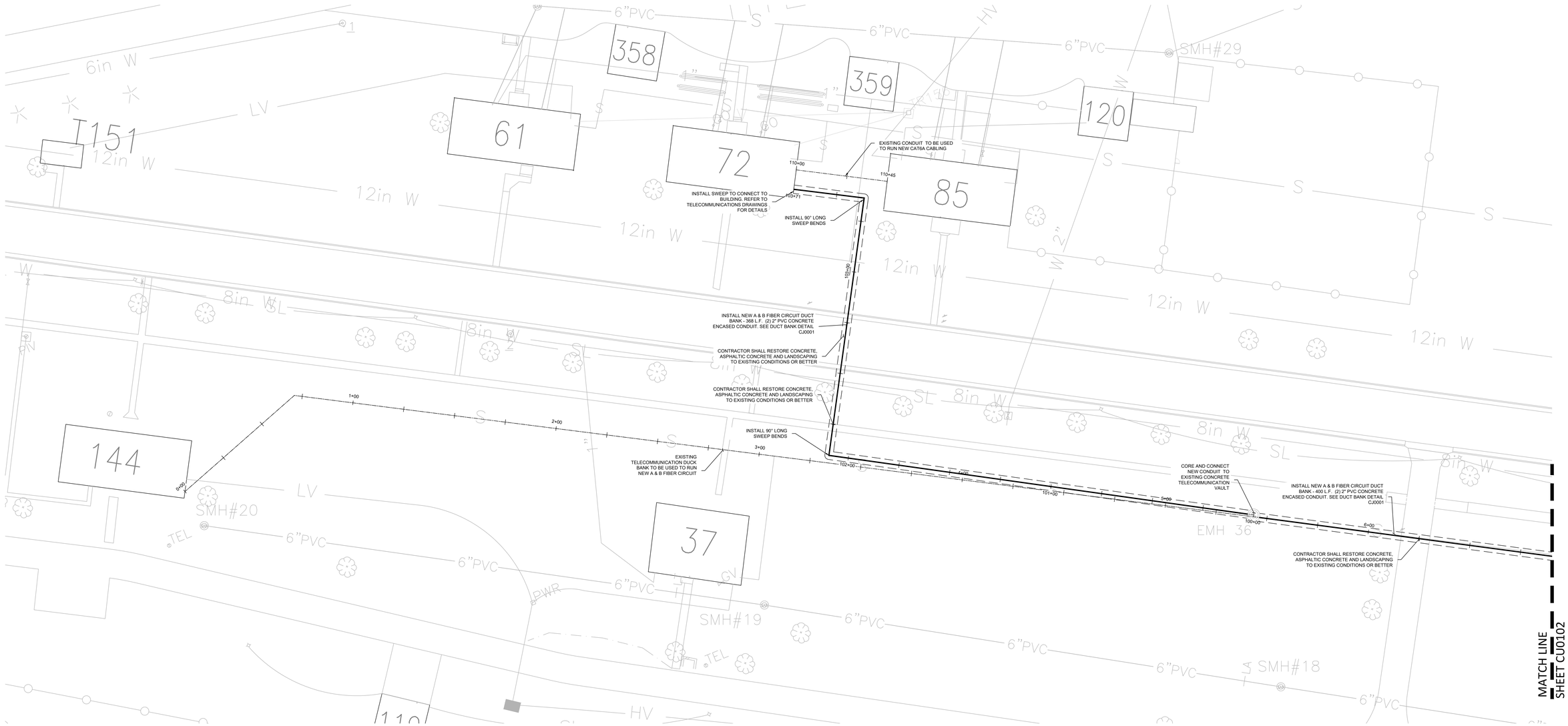

1 FIBER OPTICS PLAN
BLDG 144,72,85

SCALE: 1"=20'-0"

NORTH

GENERAL NOTES:

1. ALL PVC CONDUITS TO BE SCHEDULE 40 PVC. REFER TO PLAN SHEET FOR SIZE AND QUANTITY.
2. REFER TO SPECIFICATIONS FOR TRENCHING BACKFILLING AND COMPACTION REQUIREMENTS
3. REFER TO ELECTRICAL PLANS FOR INSTALLATION OF ALL CONDUIT WITHIN 5.0-FT OF BUILDINGS AND IN OTHER LOCATIONS NOTED ON CIVIL PLANS.
4. TOPS OF CONCRETE ENCASED DUCTS SHALL BE 54" MIN BELOW FINISHED GRADE, AND NOT LESS THAN DEPTHS SHOWN ON CIVIL PLANS.
5. ALL CONCRETE-ENCASED CONDUIT IS EXPECTED TO BE INSTALLED BY OPEN TRENCH. DIRECTIONAL BORING OR JACKING OF CONDUIT IS NOT ANTICIPATED FOR THIS PROJECT. IF CONTRACTOR WISHES TO INSTALL BY BORING OR JACKING, PLANS TO DO SO MUST BE APPROVED BY THE COR PRIOR TO CONSTRUCTION.
6. BEFORE PERFORMING TRENCHING WORK, CONTRACTOR SHALL PERFORM A GROUND PENETRATING RADAR SURVEY TO REVEAL ALL EXISTING UNDERGROUND DUCTS, CONDUITS, CABLES AND OTHER UTILITY SYSTEMS.
7. ALL MULTIPLE CONDUIT RUNS SHALL HAVE CONDUIT SPACERS SECURELY SUPPORTING AND MAINTAINING UNIFORM SPACING OF THE DUCT ASSEMBLY AND SHALL BE INSTALLED IN ACCORDANCE SPECIFICATIONS AND DUCT BANK DETAILS.
8. PITCH CONDUIT TRENCHES TOWARD MANHOLES/PULLBOXES, OR BOTH WAYS FROM HIGH POINTS BETWEEN STRUCTURES WITH A MINIMUM SLOPE OF 0.40% TO ACHIEVE REQUIRED DUCT LINE DRAINAGE.
9. AVOID SLOPING CONDUIT DUCTS TOWARD BUILDINGS.
10. AFTER CONCRETE-ENCASED DUCTS HAVE SUFFICIENTLY CURED, CONTRACTOR SHALL BACKFILL TRENCH IN GRADE WITH EARTH, AND INSTALL THE APPROPRIATE WARNING TAPE APPROXIMATELY 12" ABOVE THE DUCTS.
11. MAINTAIN 12" MINIMUM VERTICAL SEPARATION BETWEEN EXTERIOR OF CONCRETE ENCASEMENT OF DUCT LINES AND OTHER UTILITY SYSTEMS INCLUDING SANITARY SEWER, WATER MAIN, STORM SEWER, AND CHILLED WATER AT ALL CROSSINGS.
12. CONDUITS SHALL BE DEFLECTED UNDER EXISTING UTILITIES AS REQUIRED TO ACHIEVE MIN. ALLOWABLE VERTICAL AND HORIZONTAL SEPARATION UNLESS OTHERWISE NOTED ON PLANS.
13. CONTRACTOR IS RESPONSIBLE FOR SUPPORTING EXISTING EQUIPMENT AND UTILITIES ADJACENT TO FIBER CONDUITS TO AVOID DAMAGE OR FAILURE.
14. KEEP DUCTS CLEAN OF EARTH, SAND, OR GRAVEL AND SEAL WITH TAPERED PLUGS UPON COMPLETION OF EACH PORTION OF WORK.
15. CONTRACTOR SHALL PROTECT ANY ADJACENT EXISTING CONCRETE SIDEWALKS WITHIN THE AREA TO AVOID DAMAGE.

Revisions:	Date:
65% REV 1 - CONSTRUCTION DOCUMENTS	07/01/2024
95% REV 1 - CONSTRUCTION DOCUMENTS	08/26/2024

CONSULTANT

CIVIL ENGINEER:
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
CELYN DEZMAIN, PE

ARCHITECT/ENGINEER OF RECORD

A/E:
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP

CELYN J. DEZMAIN LICENSE No. 84232 STATE OF FLORIDA PROFESSIONAL ENGINEER

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

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PHASE	100% - CONSTRUCTION DOCUMENTS
PROJECT TITLE	EHRM INFRASTRUCTURE UPGRADE
PROJECT NO.	568-21-701
BUILDING NO.	
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LOCATION	FORT MEADE, SOUTH DAKOTA
ISSUE DATE	11/05/2024
CHECKED	CD
DRAWN	DT
DRAWING NO.	CU0101

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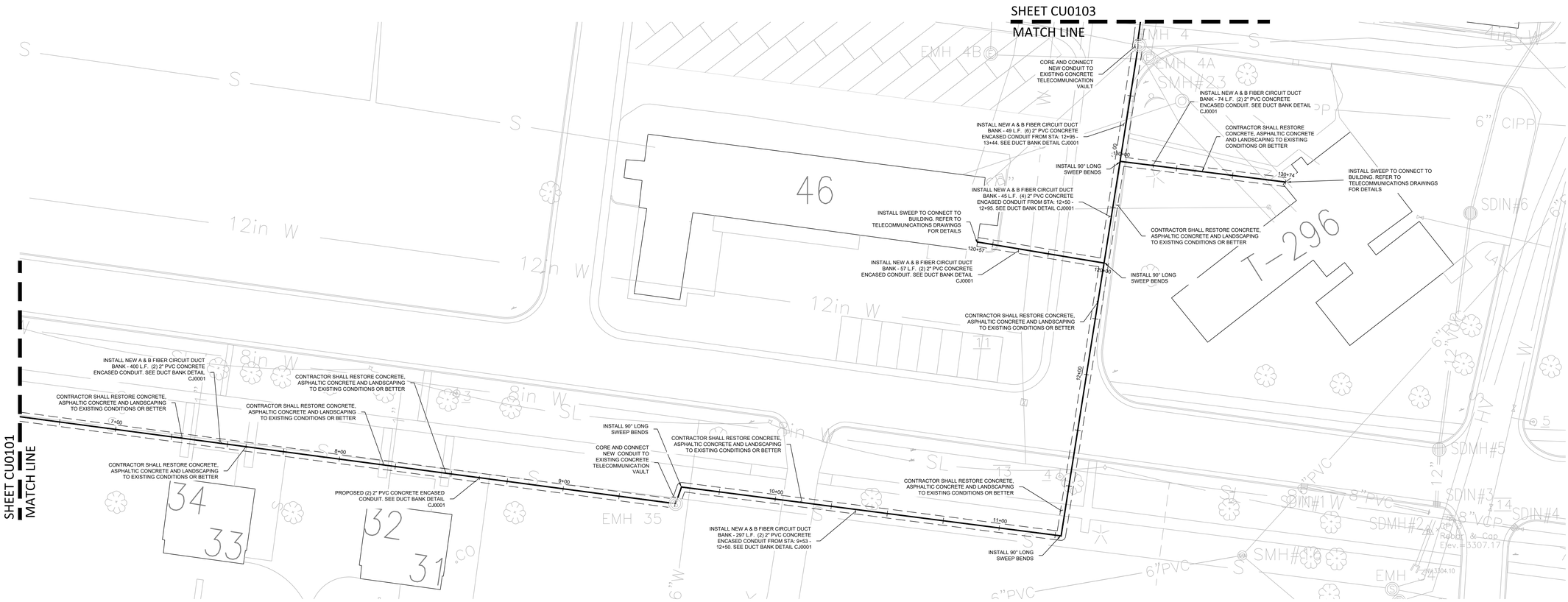

1 FIBER OPTICS PLAN
BLDG 46, T-296, 40, 89

SCALE: 1"=20'-0"

NORTH

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8. PITCH CONDUIT TRENCHES TOWARD MANHOLES/PULLBOXES, OR BOTH WAYS FROM HIGH POINTS BETWEEN STRUCTURES WITH A MINIMUM SLOPE OF 0.40% TO ACHIEVE REQUIRED DUCT LINE DRAINAGE.
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CONSULTANT

CIVIL ENGINEER:
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
CELYN DEZMAIN, PE

ARCHITECT/ENGINEER OF RECORD

A/E:
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP

CELYN J. DEZMAIN LICENSE No. 84232 STATE OF FLORIDA PROFESSIONAL ENGINEER

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

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PHASE: 100% - CONSTRUCTION DOCUMENTS
PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADE
PROJECT NO.: 568-21-701
BUILDING NO.:
APPROVED: VA PROJECT DIRECTOR: FOR OFFICIAL USE ONLY (FOUO)
FLS: FULLY SPRINKLERED
LOCATION: FORT MEADE, SOUTH DAKOTA
ISSUE DATE: 11/05/2024
CHECKED: CD
DRAWN: DT
DRAWING NO.: CU0102

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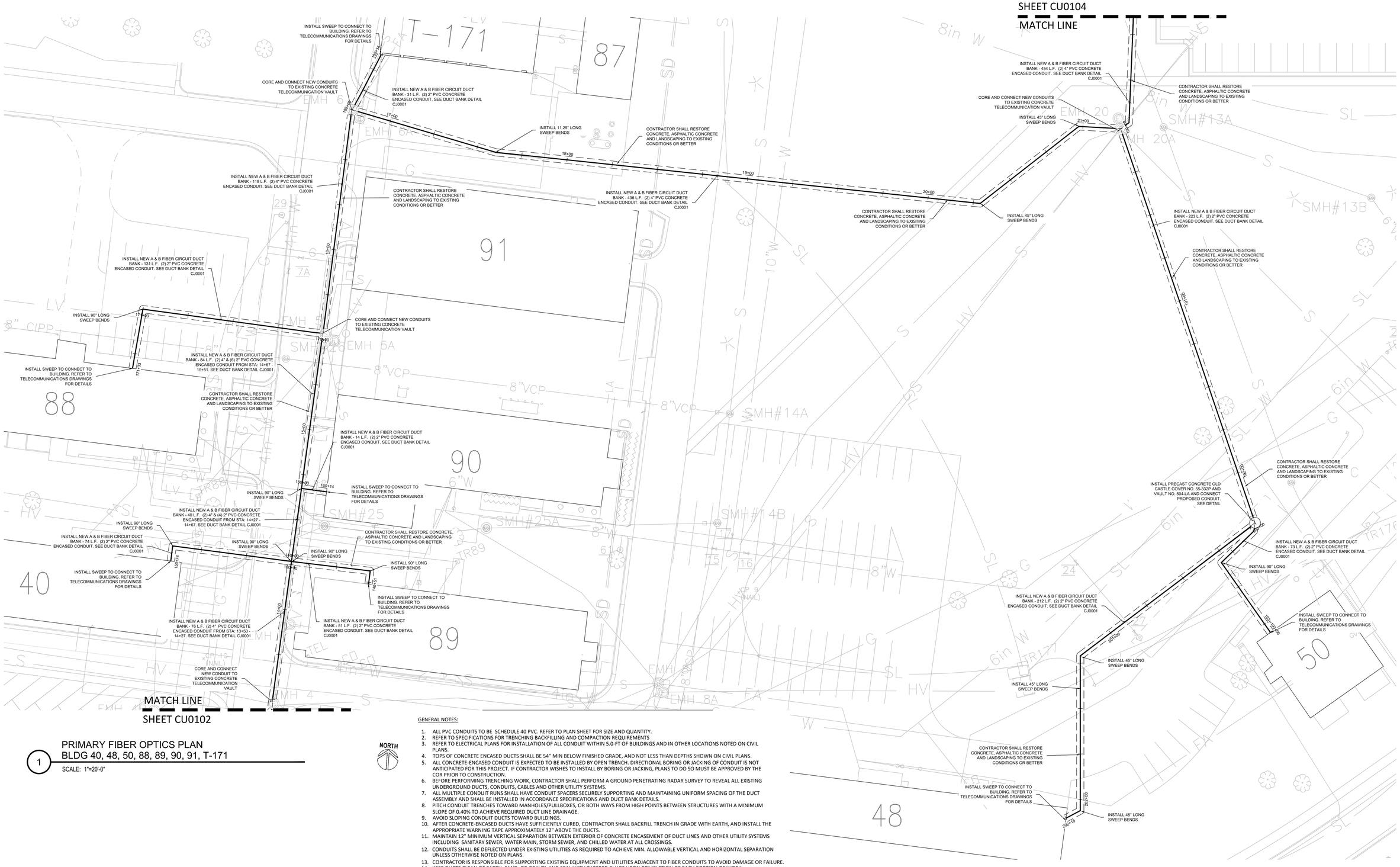
SHEET CU0104
MATCH LINE
INSTALL SWEEP TO CONNECT TO BUILDING. REFER TO TELECOMMUNICATIONS DRAWINGS FOR DETAILS
CORE AND CONNECT NEW CONDUITS TO EXISTING CONCRETE TELECOMMUNICATION VAULT
INSTALL NEW A & B FIBER CIRCUIT DUCT BANK - 31 L.F. (2) 2" PVC CONCRETE ENCASED CONDUIT. SEE DUCT BANK DETAIL CJ0001
INSTALL 11.25° LONG SWEEP BENDS
CONTRACTOR SHALL RESTORE CONCRETE, ASPHALTIC CONCRETE AND LANDSCAPING TO EXISTING CONDITIONS OR BETTER
INSTALL NEW A & B FIBER CIRCUIT DUCT BANK - 118 L.F. (2) 4" PVC CONCRETE ENCASED CONDUIT. SEE DUCT BANK DETAIL CJ0001
INSTALL NEW A & B FIBER CIRCUIT DUCT BANK - 436 L.F. (2) 4" PVC CONCRETE ENCASED CONDUIT. SEE DUCT BANK DETAIL CJ0001
INSTALL NEW A & B FIBER CIRCUIT DUCT BANK - 131 L.F. (2) 2" PVC CONCRETE ENCASED CONDUIT. SEE DUCT BANK DETAIL CJ0001
INSTALL 90° LONG SWEEP BENDS
CORE AND CONNECT NEW CONDUITS TO EXISTING CONCRETE TELECOMMUNICATION VAULT
INSTALL NEW A & B FIBER CIRCUIT DUCT BANK - 84 L.F. (2) 4" & (6) 2" PVC CONCRETE ENCASED CONDUIT FROM STA: 14+67 - 15+51. SEE DUCT BANK DETAIL CJ0001
INSTALL SWEEP TO CONNECT TO BUILDING. REFER TO TELECOMMUNICATIONS DRAWINGS FOR DETAILS
CONTRACTOR SHALL RESTORE CONCRETE, ASPHALTIC CONCRETE AND LANDSCAPING TO EXISTING CONDITIONS OR BETTER
INSTALL NEW A & B FIBER CIRCUIT DUCT BANK - 14 L.F. (2) 2" PVC CONCRETE ENCASED CONDUIT. SEE DUCT BANK DETAIL CJ0001
INSTALL 90° LONG SWEEP BENDS
INSTALL SWEEP TO CONNECT TO BUILDING. REFER TO TELECOMMUNICATIONS DRAWINGS FOR DETAILS
INSTALL NEW A & B FIBER CIRCUIT DUCT BANK - 454 L.F. (2) 4" PVC CONCRETE ENCASED CONDUIT. SEE DUCT BANK DETAIL CJ0001
CORE AND CONNECT NEW CONDUITS TO EXISTING CONCRETE TELECOMMUNICATION VAULT
INSTALL 45° LONG SWEEP BENDS
CONTRACTOR SHALL RESTORE CONCRETE, ASPHALTIC CONCRETE AND LANDSCAPING TO EXISTING CONDITIONS OR BETTER
INSTALL NEW A & B FIBER CIRCUIT DUCT BANK - 223 L.F. (2) 2" PVC CONCRETE ENCASED CONDUIT. SEE DUCT BANK DETAIL CJ0001
INSTALL PRECAST CONCRETE OLD CASTLE COVER NO. 55-332P AND VAULT NO. 504-LA AND CONNECT PROPOSED CONDUIT. SEE DETAIL
INSTALL NEW A & B FIBER CIRCUIT DUCT BANK - 73 L.F. (2) 2" PVC CONCRETE ENCASED CONDUIT. SEE DUCT BANK DETAIL CJ0001
INSTALL NEW A & B FIBER CIRCUIT DUCT BANK - 212 L.F. (2) 2" PVC CONCRETE ENCASED CONDUIT. SEE DUCT BANK DETAIL CJ0001
INSTALL NEW A & B FIBER CIRCUIT DUCT BANK - 74 L.F. (2) 2" PVC CONCRETE ENCASED CONDUIT. SEE DUCT BANK DETAIL CJ0001
INSTALL NEW A & B FIBER CIRCUIT DUCT BANK - 76 L.F. (2) 4" PVC CONCRETE ENCASED CONDUIT FROM STA: 13+50 - 14+27. SEE DUCT BANK DETAIL CJ0001
INSTALL NEW A & B FIBER CIRCUIT DUCT BANK - 51 L.F. (2) 2" PVC CONCRETE ENCASED CONDUIT. SEE DUCT BANK DETAIL CJ0001
CONTRACTOR SHALL RESTORE CONCRETE, ASPHALTIC CONCRETE AND LANDSCAPING TO EXISTING CONDITIONS OR BETTER
INSTALL 45° LONG SWEEP BENDS
INSTALL SWEEP TO CONNECT TO BUILDING. REFER TO TELECOMMUNICATIONS DRAWINGS FOR DETAILS
CORE AND CONNECT NEW CONDUIT TO EXISTING CONCRETE TELECOMMUNICATION VAULT
MATCH LINE
SHEET CU0102
T-171
87
88
89
90
91
40
48
50
EMH 6
EMH 6A
EMH 5
EMH 5A
EMH 4
EMH 8A
EMH 20
SMH#13A
SMH#13B
SMH#14A
SMH#14B
SMH#25
SMH#25A
SMH 20A
8" CIPP
8"VCP
6"W
8"W
8in W
6in W
10"W
SSMH
SDMH
SDCB
SDMH 10
SDMH 9
SDMH 11
SDMH 12
SDMH 13
SDMH 14
SDMH 15
SDMH 16
SDMH 17
SDMH 18
SDMH 19
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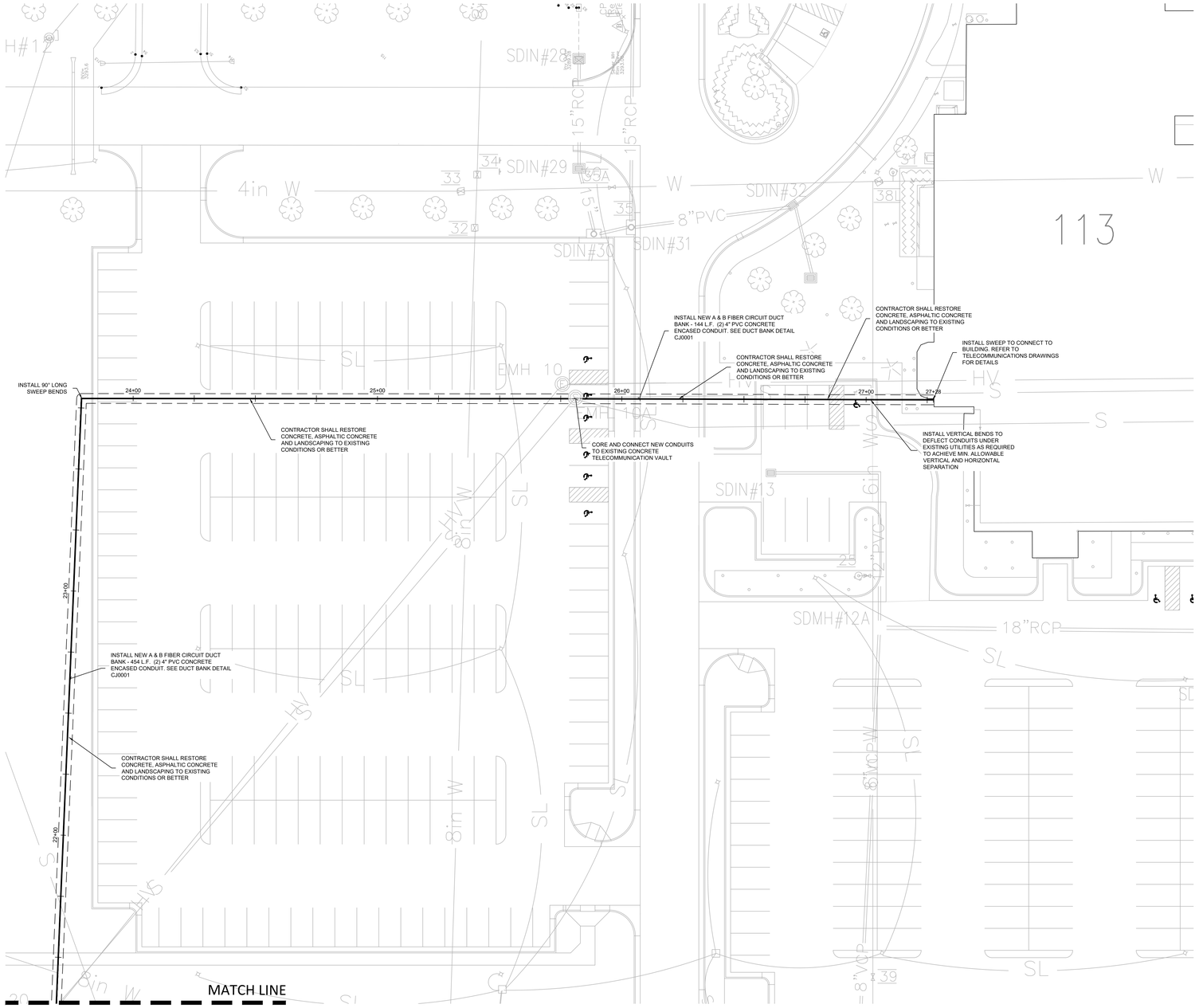
SDMH



PRIMARY FIBER OPTICS PLAN
BLDG 113

1

SCALE: 1"=20'-0"

NORTH

GENERAL NOTES:

1. ALL PVC CONDUITS TO BE SCHEDULE 40 PVC. REFER TO PLAN SHEET FOR SIZE AND QUANTITY.
2. REFER TO SPECIFICATIONS FOR TRENCHING BACKFILLING AND COMPACTION REQUIREMENTS
3. REFER TO ELECTRICAL PLANS FOR INSTALLATION OF ALL CONDUIT WITHIN 5.0-FT OF BUILDINGS AND IN OTHER LOCATIONS NOTED ON CIVIL PLANS.
4. TOPS OF CONCRETE ENCASED DUCTS SHALL BE 54" MIN BELOW FINISHED GRADE, AND NOT LESS THAN DEPTHS SHOWN ON CIVIL PLANS.
5. ALL CONCRETE-ENCASED CONDUIT IS EXPECTED TO BE INSTALLED BY OPEN TRENCH. DIRECTIONAL BORING OR JACKING OF CONDUIT IS NOT ANTICIPATED FOR THIS PROJECT. IF CONTRACTOR WISHES TO INSTALL BY BORING OR JACKING, PLANS TO DO SO MUST BE APPROVED BY THE COR PRIOR TO CONSTRUCTION.
6. BEFORE PERFORMING TRENCHING WORK, CONTRACTOR SHALL PERFORM A GROUND PENETRATING RADAR SURVEY TO REVEAL ALL EXISTING UNDERGROUND DUCTS, CONDUITS, CABLES AND OTHER UTILITY SYSTEMS.
7. ALL MULTIPLE CONDUIT RUNS SHALL HAVE CONDUIT SPACERS SECURELY SUPPORTING AND MAINTAINING UNIFORM SPACING OF THE DUCT ASSEMBLY AND SHALL BE INSTALLED IN ACCORDANCE SPECIFICATIONS AND DUCT BANK DETAILS.
8. PITCH CONDUIT TRENCHES TOWARD MANHOLES/PULLBOXES, OR BOTH WAYS FROM HIGH POINTS BETWEEN STRUCTURES WITH A MINIMUM SLOPE OF 0.40% TO ACHIEVE REQUIRED DUCT LINE DRAINAGE.
9. AVOID SLOPING CONDUIT DUCTS TOWARD BUILDINGS.
10. AFTER CONCRETE-ENCASED DUCTS HAVE SUFFICIENTLY CURED, CONTRACTOR SHALL BACKFILL TRENCH IN GRADE WITH EARTH, AND INSTALL THE APPROPRIATE WARNING TAPE APPROXIMATELY 12" ABOVE THE DUCTS.
11. MAINTAIN 12" MINIMUM VERTICAL SEPARATION BETWEEN EXTERIOR OF CONCRETE ENCASEMENT OF DUCT LINES AND OTHER UTILITY SYSTEMS INCLUDING SANITARY SEWER, WATER MAIN, STORM SEWER, AND CHILLED WATER AT ALL CROSSINGS.
12. CONDUITS SHALL BE DEFLECTED UNDER EXISTING UTILITIES AS REQUIRED TO ACHIEVE MIN. ALLOWABLE VERTICAL AND HORIZONTAL SEPARATION UNLESS OTHERWISE NOTED ON PLANS.
13. CONTRACTOR IS RESPONSIBLE FOR SUPPORTING EXISTING EQUIPMENT AND UTILITIES ADJACENT TO FIBER CONDUITS TO AVOID DAMAGE OR FAILURE.
14. KEEP DUCTS CLEAN OF EARTH, SAND, OR GRAVEL AND SEAL WITH TAPERED PLUGS UPON COMPLETION OF EACH PORTION OF WORK.
15. CONTRACTOR SHALL PROTECT ANY ADJACENT EXISTING CONCRETE SIDEWALKS WITHIN THE AREA TO AVOID DAMAGE.

Revisions:	Date:
65% REV 1 - CONSTRUCTION DOCUMENTS	07/01/2024
95% REV 1 - CONSTRUCTION DOCUMENTS	08/26/2024

CONSULTANT

CIVIL ENGINEER:
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
CELYN DEZMAIN, PE

ARCHITECT/ENGINEER OF RECORD

A/E:
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP

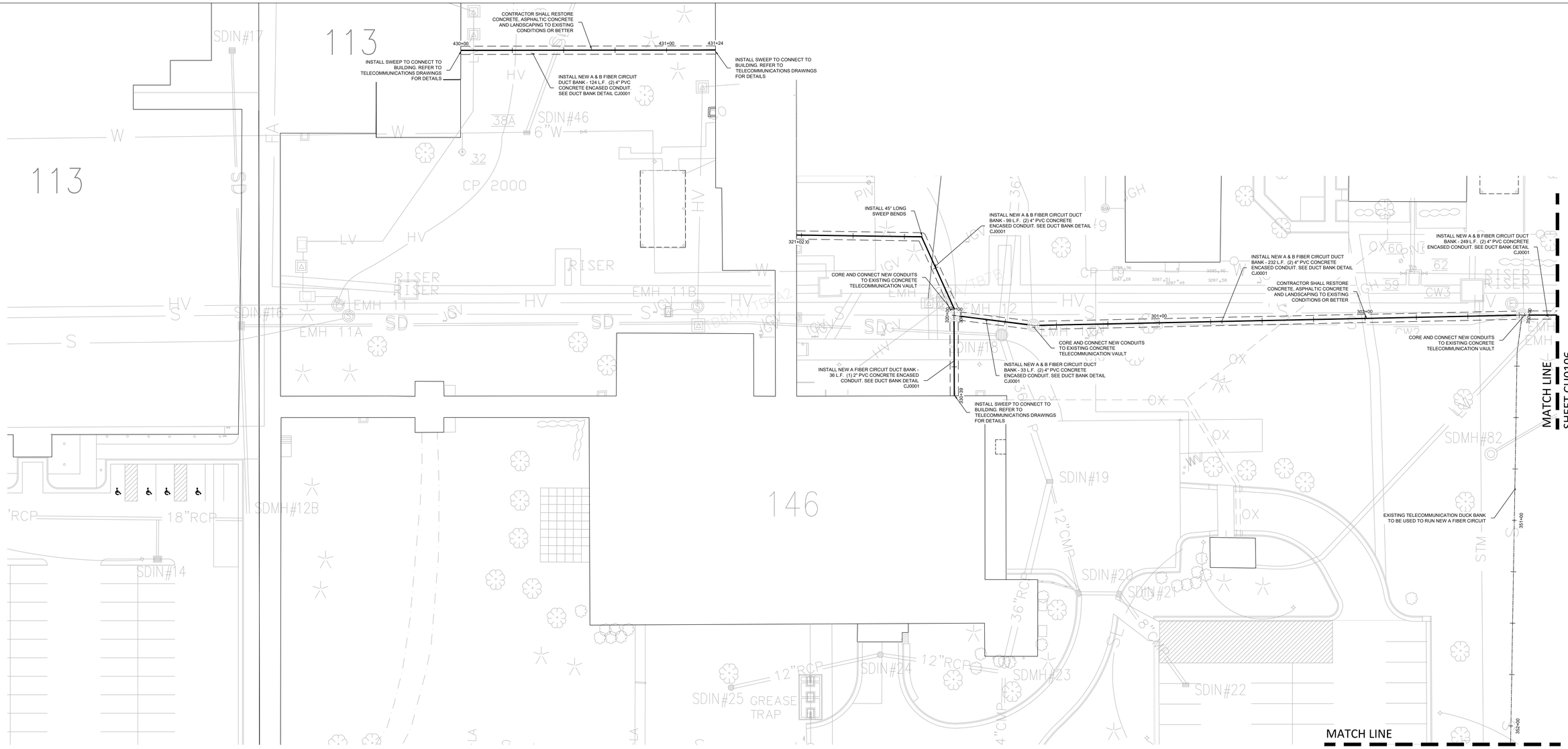
CELYN J. DEZMAIN LICENSE No. 84232 STATE OF FLORIDA PROFESSIONAL ENGINEER

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE	CIVIL - FIBER OPTICS PLAN
PHASE	100% - CONSTRUCTION DOCUMENTS
PROJECT TITLE	EHRM INFRASTRUCTURE UPGRADE
PROJECT NO.	568-21-701
BUILDING NO.	
APPROVED: VA PROJECT DIRECTOR	FOR OFFICIAL USE ONLY (FOUO)
FLS	FULLY SPRINKLERED
LOCATION	FORT MEADE, SOUTH DAKOTA
ISSUE DATE	11/05/2024
CHECKED	CD
DRAWN	DT
DRAWING NO.	CU0104

VA FORM 08 - 6231



1 PRIMARY FIBER OPTICS PLAN
BLDG 113, 146, STA 300+00 - 302+00

SCALE: 1"=20'-0"

NORTH

GENERAL NOTES:

1. ALL PVC CONDUITS TO BE SCHEDULE 40 PVC. REFER TO PLAN SHEET FOR SIZE AND QUANTITY.
2. REFER TO SPECIFICATIONS FOR TRENCHING BACKFILLING AND COMPACTION REQUIREMENTS
3. REFER TO ELECTRICAL PLANS FOR INSTALLATION OF ALL CONDUIT WITHIN 5.0-FT OF BUILDINGS AND IN OTHER LOCATIONS NOTED ON CIVIL PLANS.
4. TOPS OF CONCRETE ENCASED DUCTS SHALL BE 54" MIN BELOW FINISHED GRADE, AND NOT LESS THAN DEPTHS SHOWN ON CIVIL PLANS.
5. ALL CONCRETE-ENCASED CONDUIT IS EXPECTED TO BE INSTALLED BY OPEN TRENCH. DIRECTIONAL BORING OR JACKING OF CONDUIT IS NOT ANTICIPATED FOR THIS PROJECT. IF CONTRACTOR WISHES TO INSTALL BY BORING OR JACKING, PLANS TO DO SO MUST BE APPROVED BY THE COR PRIOR TO CONSTRUCTION.
6. BEFORE PERFORMING TRENCHING WORK, CONTRACTOR SHALL PERFORM A GROUND PENETRATING RADAR SURVEY TO REVEAL ALL EXISTING UNDERGROUND DUCTS, CONDUITS, CABLES AND OTHER UTILITY SYSTEMS.
7. ALL MULTIPLE CONDUIT RUNS SHALL HAVE CONDUIT SPACERS SECURELY SUPPORTING AND MAINTAINING UNIFORM SPACING OF THE DUCT ASSEMBLY AND SHALL BE INSTALLED IN ACCORDANCE SPECIFICATIONS AND DUCT BANK DETAILS.
8. PITCH CONDUIT TRENCHES TOWARD MANHOLES/PULLBOXES, OR BOTH WAYS FROM HIGH POINTS BETWEEN STRUCTURES WITH A MINIMUM SLOPE OF 0.40% TO ACHIEVE REQUIRED DUCT LINE DRAINAGE.
9. AVOID SLOPING CONDUIT DUCTS TOWARD BUILDINGS.
10. AFTER CONCRETE-ENCASED DUCTS HAVE SUFFICIENTLY CURED, CONTRACTOR SHALL BACKFILL TRENCH IN GRADE WITH EARTH, AND INSTALL THE APPROPRIATE WARNING TAPE APPROXIMATELY 12" ABOVE THE DUCTS.
11. MAINTAIN 12" MINIMUM VERTICAL SEPARATION BETWEEN EXTERIOR OF CONCRETE ENCASEMENT OF DUCT LINES AND OTHER UTILITY SYSTEMS INCLUDING SANITARY SEWER, WATER MAIN, STORM SEWER, AND CHILLED WATER AT ALL CROSSINGS.
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14. KEEP DUCTS CLEAN OF EARTH, SAND, OR GRAVEL AND SEAL WITH TAPERED PLUGS UPON COMPLETION OF EACH PORTION OF WORK.
15. CONTRACTOR SHALL PROTECT ANY ADJACENT EXISTING CONCRETE SIDEWALKS WITHIN THE AREA TO AVOID DAMAGE.

Revisions:	Date:
65% REV 1 - CONSTRUCTION DOCUMENTS	07/01/2024
95% REV 1 - CONSTRUCTION DOCUMENTS	08/26/2024

CONSULTANT
CIVIL ENGINEER:
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
CELYN DEZMAIN, PE

ARCHITECT/ENGINEER OF RECORD
A/E:
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE
GDM ARCHITECTS • ENGINEERS

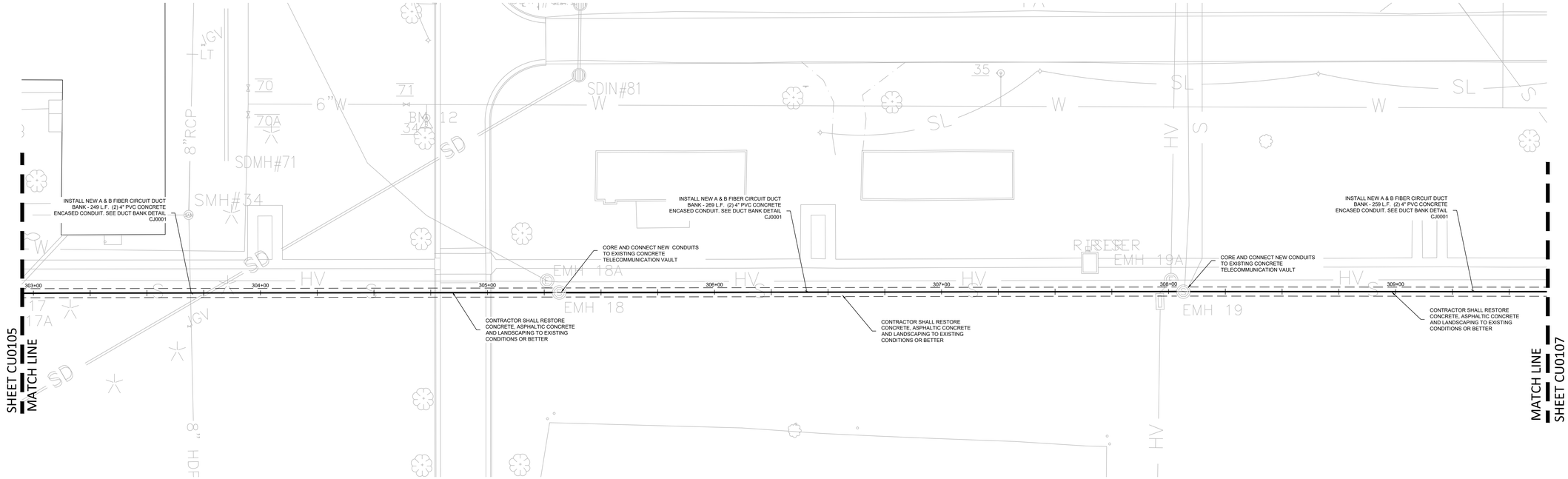
STAMP
CELYN J. DEZMAIN LICENSE No. 84232 STATE OF FLORIDA PROFESSIONAL ENGINEER

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE	CIVIL - FIBER OPTICS PLAN
PHASE	100% - CONSTRUCTION DOCUMENTS
PROJECT TITLE	EHRM INFRASTRUCTURE UPGRADE
PROJECT NO.	568-21-701
BUILDING NO.	
APPROVED: VA PROJECT DIRECTOR	FOR OFFICIAL USE ONLY (FOUO)
FLS	FULLY SPRINKLERED
LOCATION	FORT MEADE, SOUTH DAKOTA
ISSUE DATE	11/05/2024
CHECKED	CD
DRAWN	DT
DRAWING NO.	CU0105

VA FORM 08 - 6231



1 PRIMARY FIBER OPTICS PLAN
BLDG 113 TA 6+00 - STA 13+25

SCALE: 1"=20'-0"

NORTH

GENERAL NOTES:

1. ALL PVC CONDUITS TO BE SCHEDULE 40 PVC. REFER TO PLAN SHEET FOR SIZE AND QUANTITY.
2. REFER TO SPECIFICATIONS FOR TRENCHING BACKFILLING AND COMPACTION REQUIREMENTS
3. REFER TO ELECTRICAL PLANS FOR INSTALLATION OF ALL CONDUIT WITHIN 5.0-FT OF BUILDINGS AND IN OTHER LOCATIONS NOTED ON CIVIL PLANS.
4. TOPS OF CONCRETE ENCASED DUCTS SHALL BE 54" MIN BELOW FINISHED GRADE, AND NOT LESS THAN DEPTHS SHOWN ON CIVIL PLANS.
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8. PITCH CONDUIT TRENCHES TOWARD MANHOLES/PULLBOXES, OR BOTH WAYS FROM HIGH POINTS BETWEEN STRUCTURES WITH A MINIMUM SLOPE OF 0.40% TO ACHIEVE REQUIRED DUCT LINE DRAINAGE.
9. AVOID SLOPING CONDUIT DUCTS TOWARD BUILDINGS.
10. AFTER CONCRETE-ENCASED DUCTS HAVE SUFFICIENTLY CURED, CONTRACTOR SHALL BACKFILL TRENCH IN GRADE WITH EARTH, AND INSTALL THE APPROPRIATE WARNING TAPE APPROXIMATELY 12" ABOVE THE DUCTS.
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14. KEEP DUCTS CLEAN OF EARTH, SAND, OR GRAVEL AND SEAL WITH TAPERED PLUGS UPON COMPLETION OF EACH PORTION OF WORK.
15. CONTRACTOR SHALL PROTECT ANY ADJACENT EXISTING CONCRETE SIDEWALKS WITHIN THE AREA TO AVOID DAMAGE.

Revisions:	Date:
65% REV 1 - CONSTRUCTION DOCUMENTS	07/01/2024
95% REV 1 - CONSTRUCTION DOCUMENTS	08/26/2024

CONSULTANT

CIVIL ENGINEER:
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
CELYN DEZMAIN, PE

ARCHITECT/ENGINEER OF RECORD

A/E:
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP

CELYN J. DEZMAIN LICENSE No. 84232 STATE OF FLORIDA PROFESSIONAL ENGINEER

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE	CIVIL - FIBER OPTICS PLAN
PHASE	100% - CONSTRUCTION DOCUMENTS
PROJECT TITLE	EHRM INFRASTRUCTURE UPGRADE
PROJECT NO.	568-21-701
BUILDING NO.	
APPROVED: VA PROJECT DIRECTOR	FOR OFFICIAL USE ONLY (FOUO)
FLS	FULLY SPRINKLERED
LOCATION	FORT MEADE, SOUTH DAKOTA
ISSUE DATE	11/05/2024
CHECKED	CD
DRAWN	DT
DRAWING NO.	CU0106

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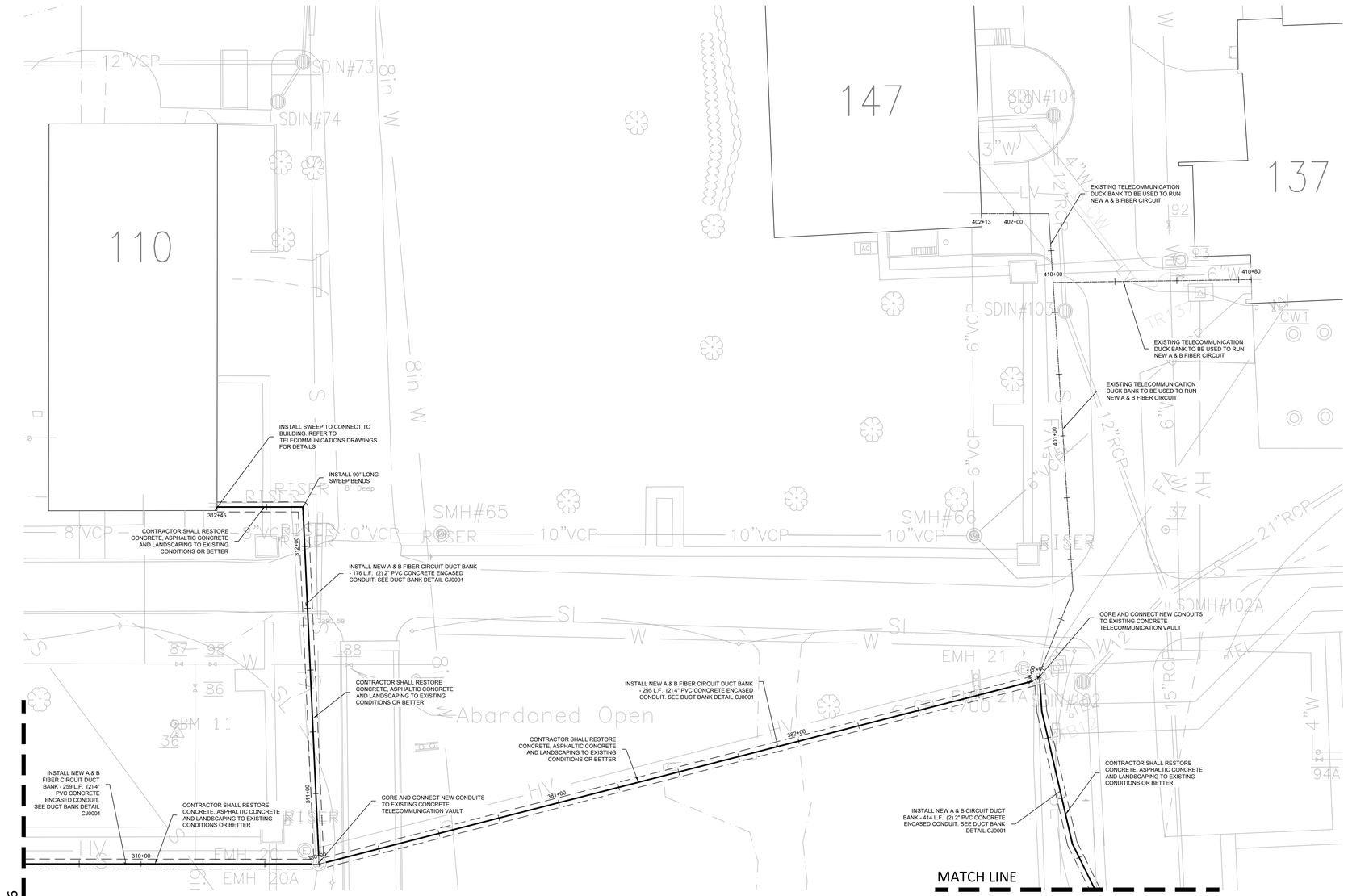

1 PRIMARY FIBER OPTICS PLAN
BLDG 113 STA 13+25 - STA 15+83 (BLDG 110), BLDG 1137, 147
SCALE: 1"=20'-0"

GENERAL NOTES:

1. ALL PVC CONDUITS TO BE SCHEDULE 40 PVC. REFER TO PLAN SHEET FOR SIZE AND QUANTITY.
2. REFER TO SPECIFICATIONS FOR TRENCHING BACKFILLING AND COMPACTION REQUIREMENTS
3. REFER TO ELECTRICAL PLANS FOR INSTALLATION OF ALL CONDUIT WITHIN 5.0-FT OF BUILDINGS AND IN OTHER LOCATIONS NOTED ON CIVIL PLANS.
4. TOPS OF CONCRETE ENCASED DUCTS SHALL BE 54" MIN BELOW FINISHED GRADE, AND NOT LESS THAN DEPTHS SHOWN ON CIVIL PLANS.
5. ALL CONCRETE-ENCASED CONDUIT IS EXPECTED TO BE INSTALLED BY OPEN TRENCH. DIRECTIONAL BORING OR JACKING OF CONDUIT IS NOT ANTICIPATED FOR THIS PROJECT. IF CONTRACTOR WISHES TO INSTALL BY BORING OR JACKING, PLANS TO DO SO MUST BE APPROVED BY THE COR PRIOR TO CONSTRUCTION.
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7. ALL MULTIPLE CONDUIT RUNS SHALL HAVE CONDUIT SPACERS SECURELY SUPPORTING AND MAINTAINING UNIFORM SPACING OF THE DUCT ASSEMBLY AND SHALL BE INSTALLED IN ACCORDANCE SPECIFICATIONS AND DUCT BANK DETAILS.
8. PITCH CONDUIT TRENCHES TOWARD MANHOLES/PULLBOXES, OR BOTH WAYS FROM HIGH POINTS BETWEEN STRUCTURES WITH A MINIMUM SLOPE OF 0.40% TO ACHIEVE REQUIRED DUCT LINE DRAINAGE.
9. AVOID SLOPING CONDUIT DUCTS TOWARD BUILDINGS.
10. AFTER CONCRETE-ENCASED DUCTS HAVE SUFFICIENTLY CURED, CONTRACTOR SHALL BACKFILL TRENCH IN GRADE WITH EARTH, AND INSTALL THE APPROPRIATE WARNING TAPE APPROXIMATELY 12" ABOVE THE DUCTS.
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14. KEEP DUCTS CLEAN OF EARTH, SAND, OR GRAVEL AND SEAL WITH TAPERED PLUGS UPON COMPLETION OF EACH PORTION OF WORK.
15. CONTRACTOR SHALL PROTECT ANY ADJACENT EXISTING CONCRETE SIDEWALKS WITHIN THE AREA TO AVOID DAMAGE.

Revisions:	Date:
65% REV 1 - CONSTRUCTION DOCUMENTS	07/01/2024
95% REV 1 - CONSTRUCTION DOCUMENTS	08/26/2024

CONSULTANT
CIVIL ENGINEER:
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
CELYN DEZMAIN, PE

ARCHITECT/ENGINEER OF RECORD
A/E:
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE
GDM ARCHITECTS • ENGINEERS

STAMP
CELYN J. DEZMAIN LICENSE No. 84232 STATE OF FLORIDA PROFESSIONAL ENGINEER

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT
VA U.S. Department of Veterans Affairs

DRAWING TITLE	CIVIL - FIBER OPTICS PLAN
PHASE	100% - CONSTRUCTION DOCUMENTS
PROJECT TITLE	EHRM INFRASTRUCTURE UPGRADE
PROJECT NO.	568-21-701
BUILDING NO.	
APPROVED: VA PROJECT DIRECTOR	FOR OFFICIAL USE ONLY (FOUO)
FLS	FULLY SPRINKLERED
LOCATION	FORT MEADE, SOUTH DAKOTA
ISSUE DATE	11/05/2024
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DRAWN	DT
DRAWING NO.	CU0107

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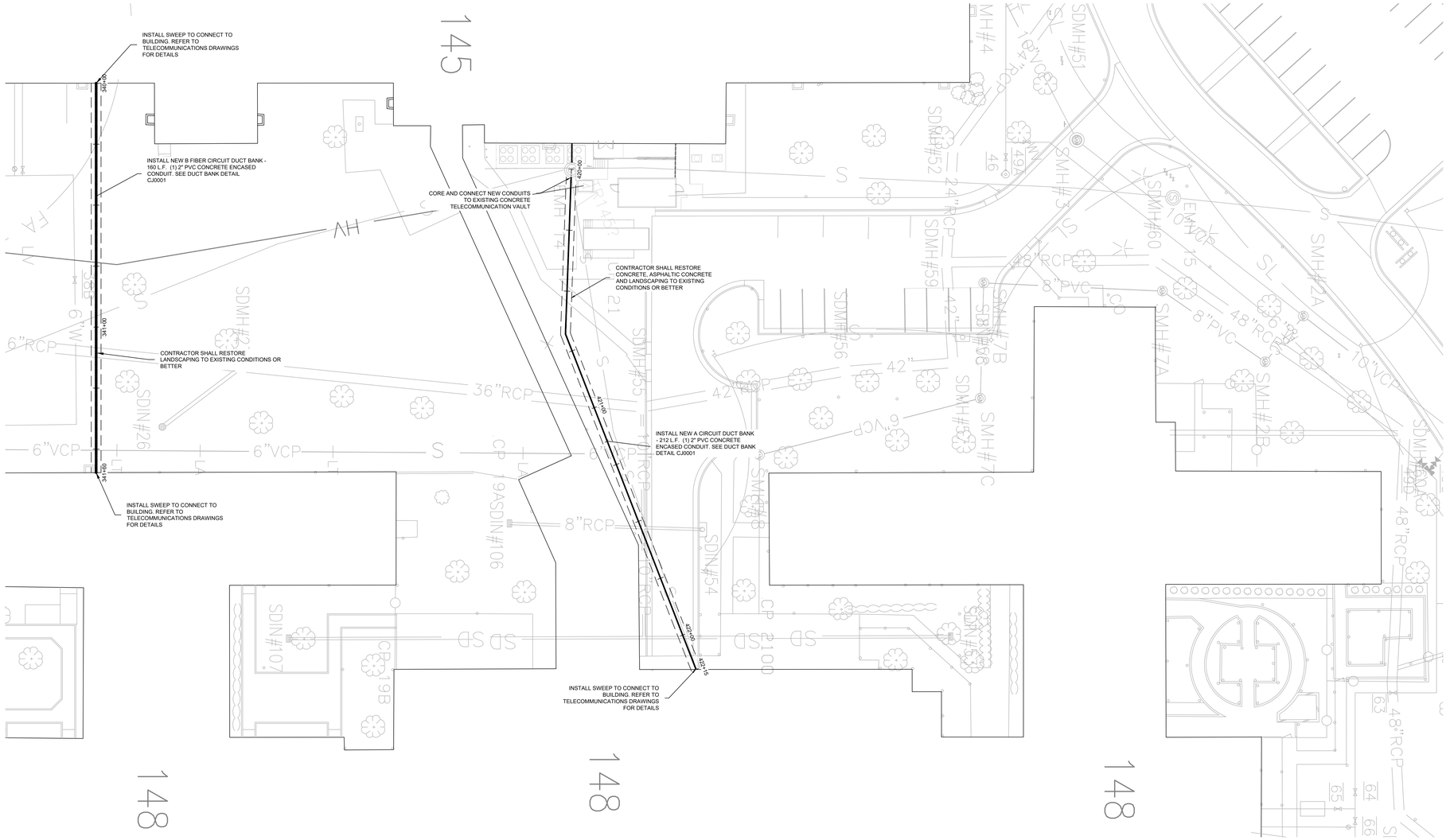
INSTALL SWEEP TO CONNECT TO BUILDING. REFER TO TELECOMMUNICATIONS DRAWINGS FOR DETAILS
340+00
INSTALL NEW B FIBER CIRCUIT DUCT BANK - 160 L.F. (1) 2" PVC CONCRETE ENCASED CONDUIT. SEE DUCT BANK DETAIL CJ0001
CORE AND CONNECT NEW CONDUITS TO EXISTING CONCRETE TELECOMMUNICATION VAULT
420+00
CONTRACTOR SHALL RESTORE CONCRETE, ASPHALTIC CONCRETE AND LANDSCAPING TO EXISTING CONDITIONS OR BETTER
341+00
CONTRACTOR SHALL RESTORE LANDSCAPING TO EXISTING CONDITIONS OR BETTER
411+00
INSTALL NEW A CIRCUIT DUCT BANK - 212 L.F. (1) 2" PVC CONCRETE ENCASED CONDUIT. SEE DUCT BANK DETAIL CJ0001
341+00
INSTALL SWEEP TO CONNECT TO BUILDING. REFER TO TELECOMMUNICATIONS DRAWINGS FOR DETAILS
423+00
422+16
INSTALL SWEEP TO CONNECT TO BUILDING. REFER TO TELECOMMUNICATIONS DRAWINGS FOR DETAILS
145
148
148
148
SDMH#42
SDMH#55
SDMH#56
SDMH#52
SDMH#59
SDMH#51
SDMH#60
SDMH#7A
SDMH#7B
SDMH#7C
SDMH#2A
SDMH#2B
SDMH#4
SDMH#5
SDMH#6
SDMH#8
SDMH#9
SDMH#10
SDMH#11
SDMH#12
SDMH#13
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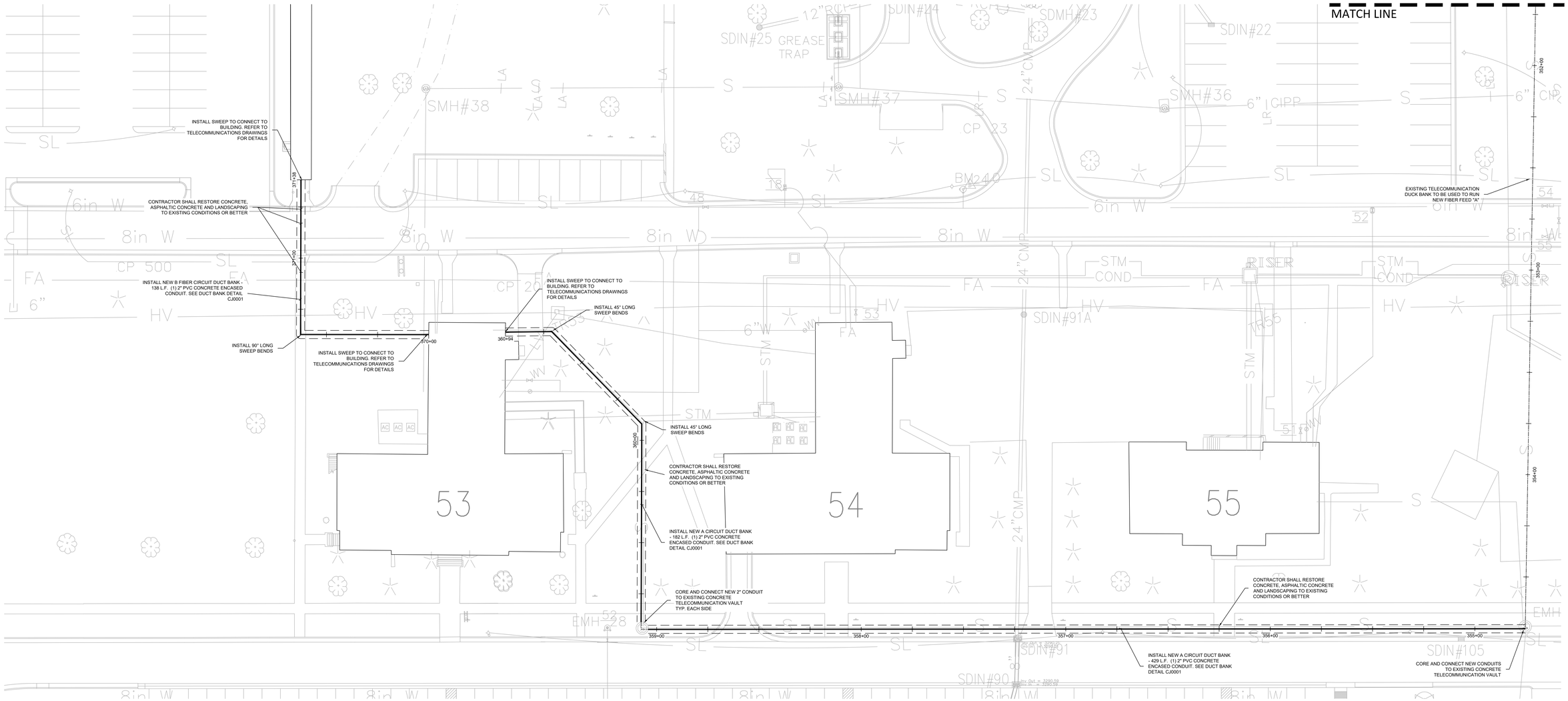


1 PRIMARY FIBER OPTICS PLAN
BLDG 302+00 - STA 310+94 (BLDG 53)
SCALE: 1"=20'-0"

NORTH

GENERAL NOTES:

1. ALL PVC CONDUITS TO BE SCHEDULE 40 PVC. REFER TO PLAN SHEET FOR SIZE AND QUANTITY.
2. REFER TO SPECIFICATIONS FOR TRENCHING BACKFILLING AND COMPACTION REQUIREMENTS
3. REFER TO ELECTRICAL PLANS FOR INSTALLATION OF ALL CONDUIT WITHIN 5.0-FT OF BUILDINGS AND IN OTHER LOCATIONS NOTED ON CIVIL PLANS.
4. TOPS OF CONCRETE ENCASED DUCTS SHALL BE 54" MIN BELOW FINISHED GRADE, AND NOT LESS THAN DEPTHS SHOWN ON CIVIL PLANS.
5. ALL CONCRETE-ENCASED CONDUIT IS EXPECTED TO BE INSTALLED BY OPEN TRENCH. DIRECTIONAL BORING OR JACKING OF CONDUIT IS NOT ANTICIPATED FOR THIS PROJECT. IF CONTRACTOR WISHES TO INSTALL BY BORING OR JACKING, PLANS TO DO SO MUST BE APPROVED BY THE COR PRIOR TO CONSTRUCTION.
6. BEFORE PERFORMING TRENCHING WORK, CONTRACTOR SHALL PERFORM A GROUND PENETRATING RADAR SURVEY TO REVEAL ALL EXISTING UNDERGROUND DUCTS, CONDUITS, CABLES AND OTHER UTILITY SYSTEMS.
7. ALL MULTIPLE CONDUIT RUNS SHALL HAVE CONDUIT SPACERS SECURELY SUPPORTING AND MAINTAINING UNIFORM SPACING OF THE DUCT ASSEMBLY AND SHALL BE INSTALLED IN ACCORDANCE SPECIFICATIONS AND DUCT BANK DETAILS.
8. PITCH CONDUIT TRENCHES TOWARD MANHOLES/PULLBOXES, OR BOTH WAYS FROM HIGH POINTS BETWEEN STRUCTURES WITH A MINIMUM SLOPE OF 0.40% TO ACHIEVE REQUIRED DUCT LINE DRAINAGE.
9. AVOID SLOPING CONDUIT DUCTS TOWARD BUILDINGS.
10. AFTER CONCRETE-ENCASED DUCTS HAVE SUFFICIENTLY CURED, CONTRACTOR SHALL BACKFILL TRENCH IN GRADE WITH EARTH, AND INSTALL THE APPROPRIATE WARNING TAPE APPROXIMATELY 12" ABOVE THE DUCTS.
11. MAINTAIN 12" MINIMUM VERTICAL SEPARATION BETWEEN EXTERIOR OF CONCRETE ENCASEMENT OF DUCT LINES AND OTHER UTILITY SYSTEMS INCLUDING SANITARY SEWER, WATER MAIN, STORM SEWER, AND CHILLED WATER AT ALL CROSSINGS.
12. CONDUITS SHALL BE DEFLECTED UNDER EXISTING UTILITIES AS REQUIRED TO ACHIEVE MIN. ALLOWABLE VERTICAL AND HORIZONTAL SEPARATION UNLESS OTHERWISE NOTED ON PLANS.
13. CONTRACTOR IS RESPONSIBLE FOR SUPPORTING EXISTING EQUIPMENT AND UTILITIES ADJACENT TO FIBER CONDUITS TO AVOID DAMAGE OR FAILURE.
14. KEEP DUCTS CLEAN OF EARTH, SAND, OR GRAVEL AND SEAL WITH TAPERED PLUGS UPON COMPLETION OF EACH PORTION OF WORK.
15. CONTRACTOR SHALL PROTECT ANY ADJACENT EXISTING CONCRETE SIDEWALKS WITHIN THE AREA TO AVOID DAMAGE.

65% REV 1 - CONSTRUCTION DOCUMENTS	07/01/2024
95% REV 1 - CONSTRUCTION DOCUMENTS	08/26/2024
Revisions:	Date:

CONSULTANT

CIVIL ENGINEER:
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
CELYN DEZMAIN, PE

ARCHITECT/ENGINEER OF RECORD

A/E:
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP

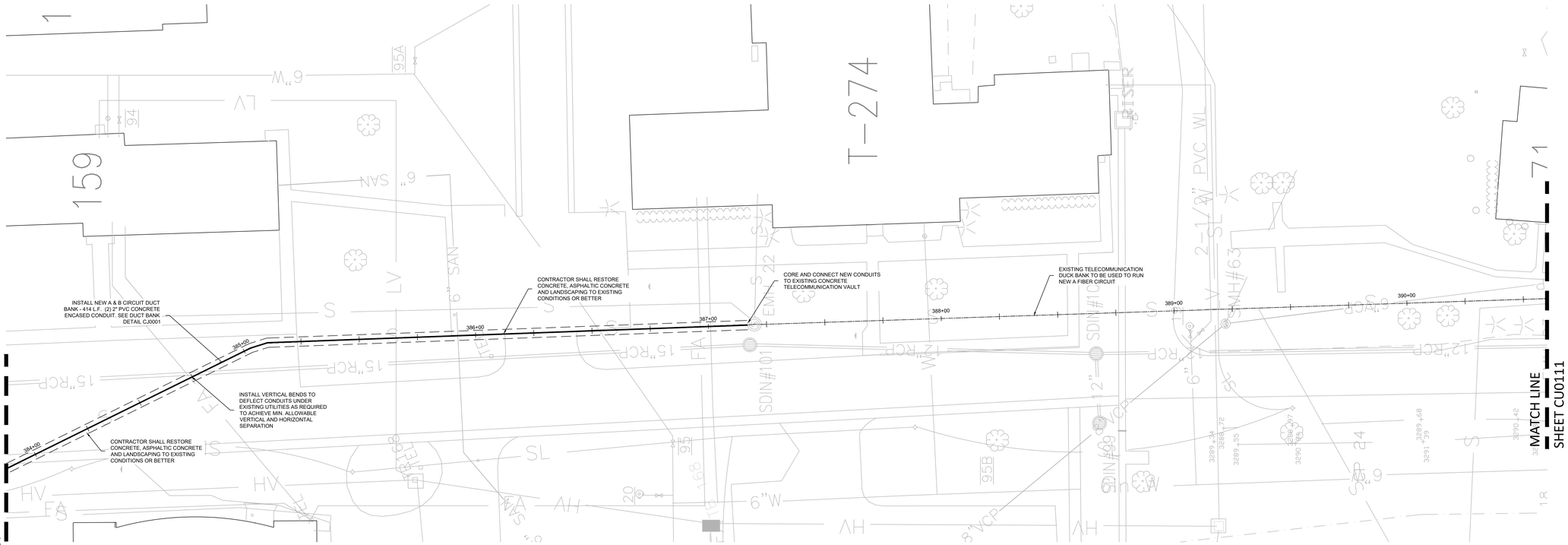
CELYN J. DEZMAIN LICENSE No. 84232 STATE OF FLORIDA PROFESSIONAL ENGINEER

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE: CIVIL - FIBER OPTICS PLAN
PHASE: 100% - CONSTRUCTION DOCUMENTS
PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADE
PROJECT NO.: 568-21-701
BUILDING NO.:
APPROVED: VA PROJECT DIRECTOR: FOR OFFICIAL USE ONLY (FOUO)
FLS: FULLY SPRINKLERED
LOCATION: FORT MEADE, SOUTH DAKOTA
ISSUE DATE: 11/05/2024
CHECKED: CD
DRAWN: DT
DRAWING NO.: CU0109

VA FORM 08 - 6231



1 PRIMARY FIBER OPTICS PLAN
STA 0+00 - 10+50

SCALE: 1"=20'-0"

NORTH

GENERAL NOTES:

1. ALL PVC CONDUITS TO BE SCHEDULE 40 PVC. REFER TO PLAN SHEET FOR SIZE AND QUANTITY.
2. REFER TO SPECIFICATIONS FOR TRENCHING BACKFILLING AND COMPACTION REQUIREMENTS
3. REFER TO ELECTRICAL PLANS FOR INSTALLATION OF ALL CONDUIT WITHIN 5.0-FT OF BUILDINGS AND IN OTHER LOCATIONS NOTED ON CIVIL PLANS.
4. TOPS OF CONCRETE ENCASED DUCTS SHALL BE 54" MIN BELOW FINISHED GRADE, AND NOT LESS THAN DEPTHS SHOWN ON CIVIL PLANS.
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8. PITCH CONDUIT TRENCHES TOWARD MANHOLES/PULLBOXES, OR BOTH WAYS FROM HIGH POINTS BETWEEN STRUCTURES WITH A MINIMUM SLOPE OF 0.40% TO ACHIEVE REQUIRED DUCT LINE DRAINAGE.
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10. AFTER CONCRETE-ENCASED DUCTS HAVE SUFFICIENTLY CURED, CONTRACTOR SHALL BACKFILL TRENCH IN GRADE WITH EARTH, AND INSTALL THE APPROPRIATE WARNING TAPE APPROXIMATELY 12" ABOVE THE DUCTS.
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14. KEEP DUCTS CLEAN OF EARTH, SAND, OR GRAVEL AND SEAL WITH TAPERED PLUGS UPON COMPLETION OF EACH PORTION OF WORK.
15. CONTRACTOR SHALL PROTECT ANY ADJACENT EXISTING CONCRETE SIDEWALKS WITHIN THE AREA TO AVOID DAMAGE.

Revisions:	Date:
65% REV 1 - CONSTRUCTION DOCUMENTS	07/01/2024
95% REV 1 - CONSTRUCTION DOCUMENTS	08/26/2024

CONSULTANT

CIVIL ENGINEER:
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
CELYN DEZMAIN, PE

ARCHITECT/ENGINEER OF RECORD

A/E:
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP

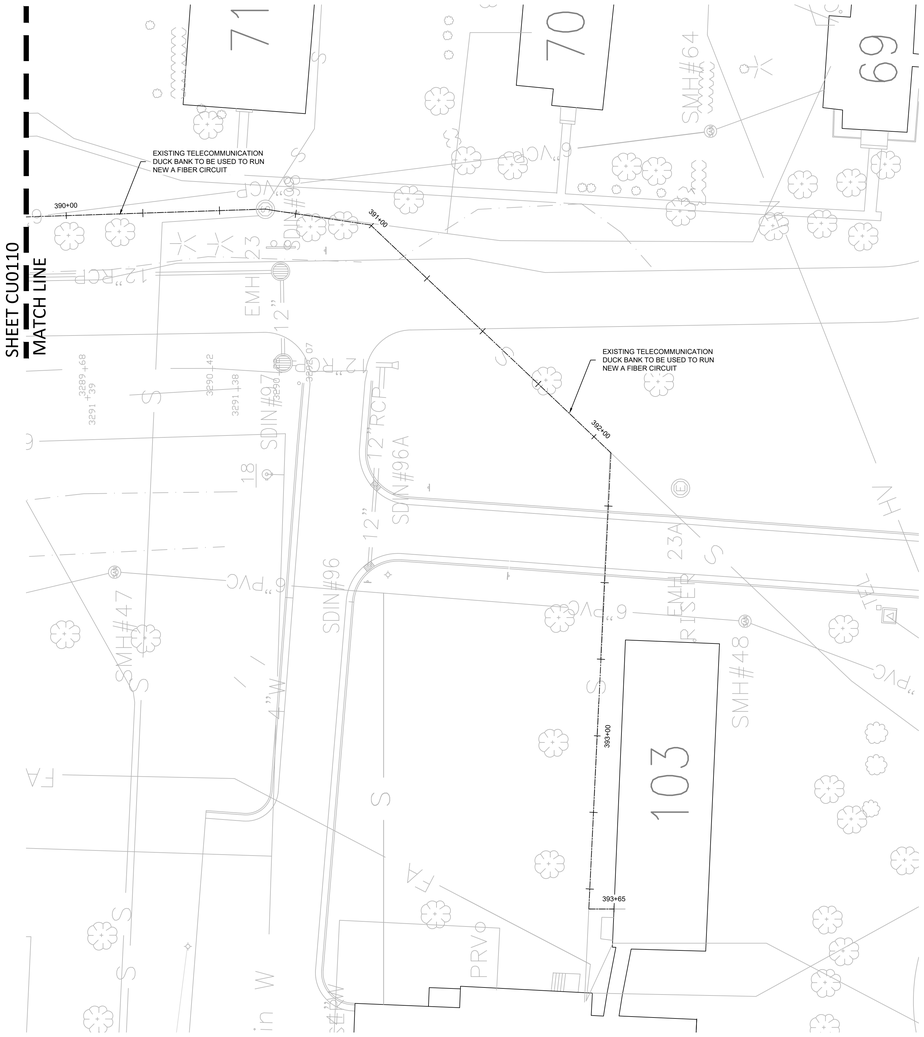
CELYN J. DEZMAIN
LICENSE
No. 84232
STATE OF FLORIDA
PROFESSIONAL ENGINEER

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE	CIVIL - FIBER OPTICS PLAN
PHASE	100% - CONSTRUCTION DOCUMENTS
PROJECT TITLE	EHRM INFRASTRUCTURE UPGRADE
PROJECT NO.	568-21-701
BUILDING NO.	
APPROVED: VA PROJECT DIRECTOR	FOR OFFICIAL USE ONLY (FOUO)
FLS	FULLY SPRINKLERED
LOCATION	FORT MEADE, SOUTH DAKOTA
ISSUE DATE	11/05/2024
CHECKED	CD
DRAWN	DT
DRAWING NO.	CU0110

VA FORM 08 - 6231



1 PRIMARY FIBER OPTICS PLAN
STA 10+50 - 13+65 (BLDG 103)
SCALE: 1"=20'-0"

NORTH

GENERAL NOTES:

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Revisions:	Date:
65% REV 1 - CONSTRUCTION DOCUMENTS	07/01/2024
95% REV 1 - CONSTRUCTION DOCUMENTS	08/26/2024

CONSULTANT

CIVIL ENGINEER:
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
CELYN DEZMAIN, PE

ARCHITECT/ENGINEER OF RECORD

A/E:
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP

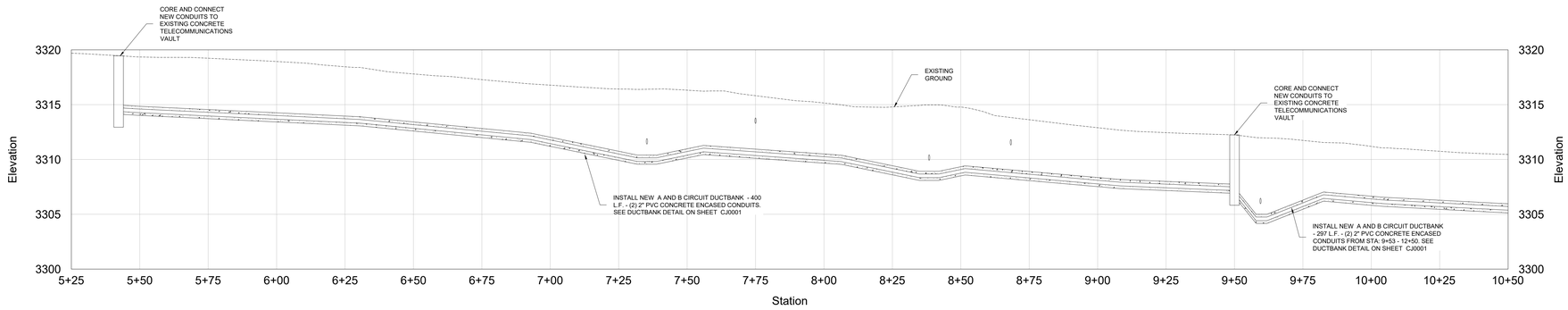
CELYN J. DEZMAIN LICENSE No. 84232 STATE OF FLORIDA PROFESSIONAL ENGINEER

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

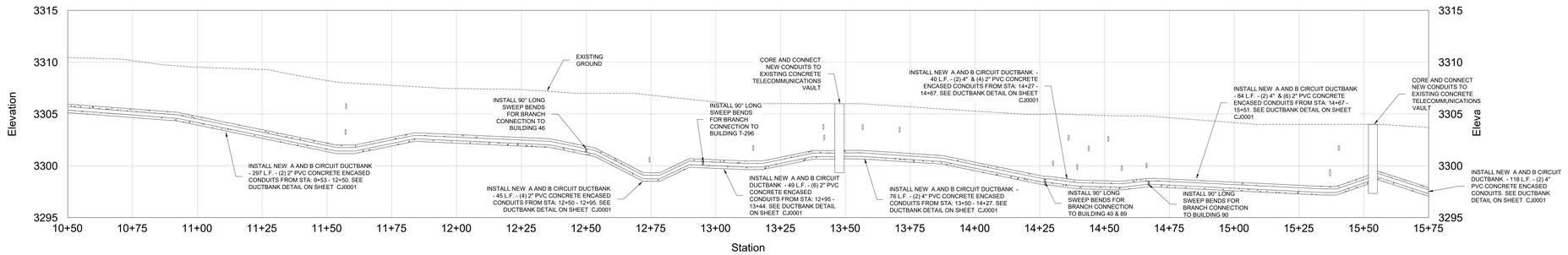
DRAWING TITLE	CIVIL - FIBER OPTICS PLAN
PHASE	100% - CONSTRUCTION DOCUMENTS
PROJECT TITLE	EHRM INFRASTRUCTURE UPGRADE
PROJECT NO.	568-21-701
BUILDING NO.	
APPROVED: VA PROJECT DIRECTOR	FOR OFFICIAL USE ONLY (FOUO)
FLS	FULLY SPRINKLERED
LOCATION	FORT MEADE, SOUTH DAKOTA
ISSUE DATE	11/05/2024
CHECKED	CD
DRAWN	DT
DRAWING NO.	CU0111

VA FORM 08 - 6231



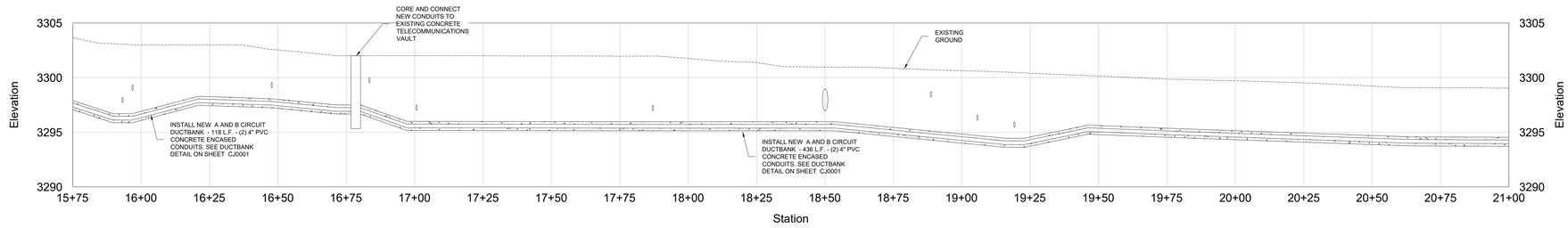
1 A & B CIRCUIT FIBER OPTICS PROFILE
STA: 5+25 - 10+50

SCALE: H: 1"=20'-0" V:1"=5'-0"



2 A & B CIRCUIT OPTICS PROFILE
STA. 10+50 - 15+75

SCALE: H: 1"=20'-0" V:1"=5'-0"



3 A & B CIRCUIT FIBER OPTICS PROFILE
STA. 15+75 - 21+00

SCALE: H: 1"=20'-0" V:1"=5'-0"

	65% REV 1 - CONSTRUCTION DOCUMENTS	07/01/2024
	95% REV 1 - CONSTRUCTION DOCUMENTS	08/26/2024
	Revisions:	Date:

CONSULTANT

CIVIL ENGINEER:
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
CELYN DEZMAIN, PE

ARCHITECT/ENGINEER OF RECORD

A/E:
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP

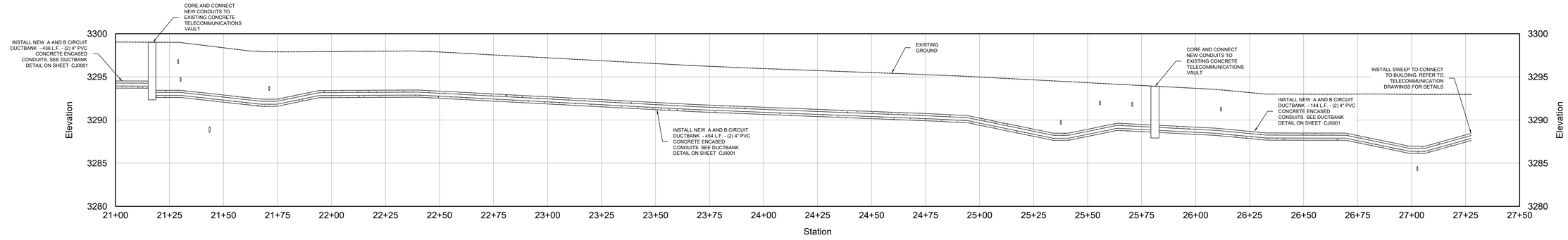
CELYN J. DEZMAIN LICENSE No. 84232 STATE OF FLORIDA PROFESSIONAL ENGINEER

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

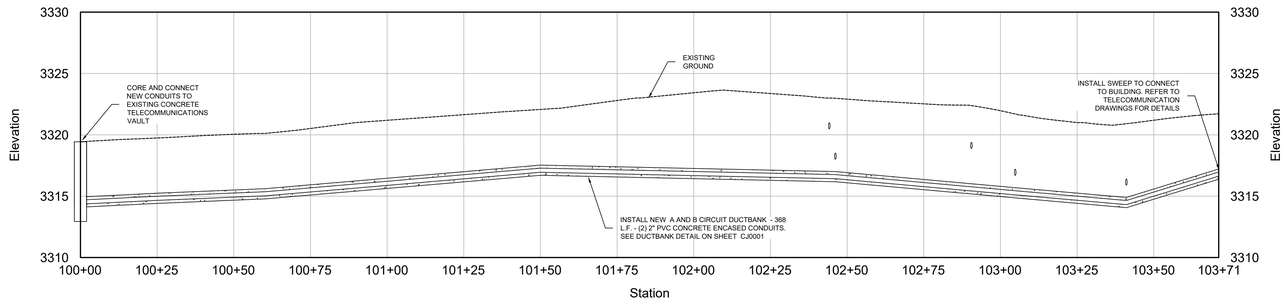
DRAWING TITLE	CIVIL - FIBER OPTICS PROFILES
PHASE	100% - CONSTRUCTION DOCUMENTS
PROJECT TITLE	EHRM INFRASTRUCTURE UPGRADE
PROJECT NO.	568-21-701
BUILDING NO.	
APPROVED: VA PROJECT DIRECTOR	FOR OFFICIAL USE ONLY (FOUO)
FLS	FULLY SPRINKLERED
LOCATION	FORT MEADE, SOUTH DAKOTA
ISSUE DATE	11/05/2024
CHECKED	CD
DRAWN	DT
DRAWING NO.	CU0200

VA FORM 08 - 6231



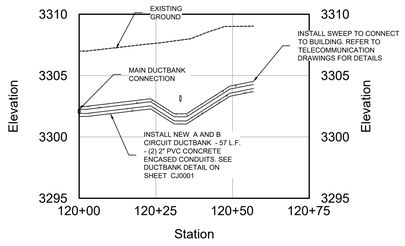
1 A & B CIRCUIT FIBER OPTICS PROFILE
STA. 21+00 - 21+27+28

SCALE: H: 1"=20'-0" V:1"=5'-0"



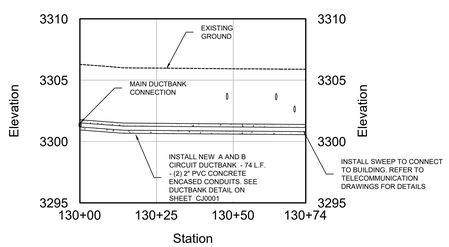
2 A & B CIRCUIT FIBER OPTICS PROFILE
STA:. 100+00 - 103+71

SCALE: H: 1"=20'-0" V:1"=5'-0"



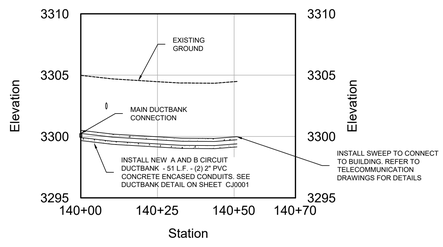
3 A & B CIRCUIT FIBER OPTICS PROFILE
STA:. 120+00 - 120+57

SCALE: H: 1"=20'-0" V:1"=5'-0"



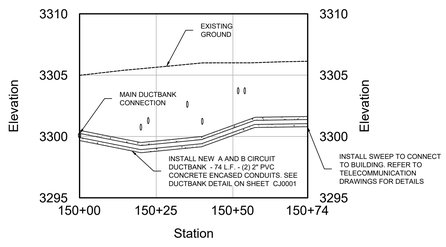
4 A & B CIRCUIT FIBER OPTICS PROFILE
STA:. 130+00 - 130+74

SCALE: H: 1"=20'-0" V:1"=5'-0"



5 A & B CIRCUIT FIBER OPTICS PROFILE
STA:. 140+00 - 140+51

SCALE: H: 1"=20'-0" V:1"=5'-0"



6 A & B CIRCUIT FIBER OPTICS PROFILE
STA:. 150+00 - 150+74

SCALE: H: 1"=20'-0" V:1"=5'-0"

Revisions:	Date:
65% REV 1 - CONSTRUCTION DOCUMENTS	07/01/2024
95% REV 1 - CONSTRUCTION DOCUMENTS	08/26/2024

CONSULTANT

CIVIL ENGINEER:
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
CELYN DEZMAIN, PE

ARCHITECT/ENGINEER OF RECORD

A/E:
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP

CELYN J. DEZMAIN LICENSE No. 84232 STATE OF FLORIDA PROFESSIONAL ENGINEER

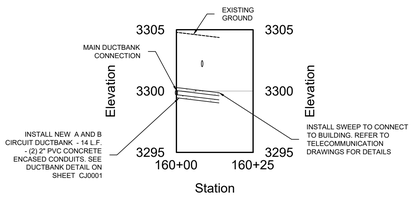
OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE: CIVIL - FIBER OPTICS PROFILES	PHASE: 100% - CONSTRUCTION DOCUMENTS
APPROVED: VA PROJECT DIRECTOR: FOR OFFICIAL USE ONLY (FOUO)	FLS: FULLY SPRINKLERED

PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADE			PROJECT NO.: 568-21-701
			BUILDING NO.:
LOCATION: FORT MEADE, SOUTH DAKOTA			DRAWING NO.: CU0201
ISSUE DATE: 11/05/2024	CHECKED: CD	DRAWN: DT	

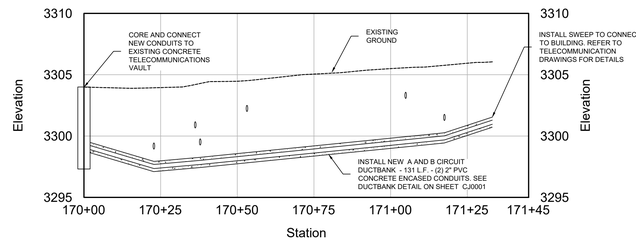
VA FORM 08 - 6231



A & B CIRCUIT FIBER OPTICS PROFILE
STA: 160+00 - 160+14

1

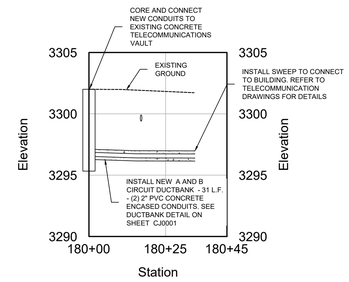
SCALE: H: 1"=20'-0" V:1"=5'-0"



A & B CIRCUIT FIBER OPTICS PROFILE
STA: 170+00 - 171+33

2

SCALE: H: 1"=20'-0" V:1"=5'-0"



A & B CIRCUIT FIBER OPTICS PROFILE
STA: 180+00 - 180+34

3

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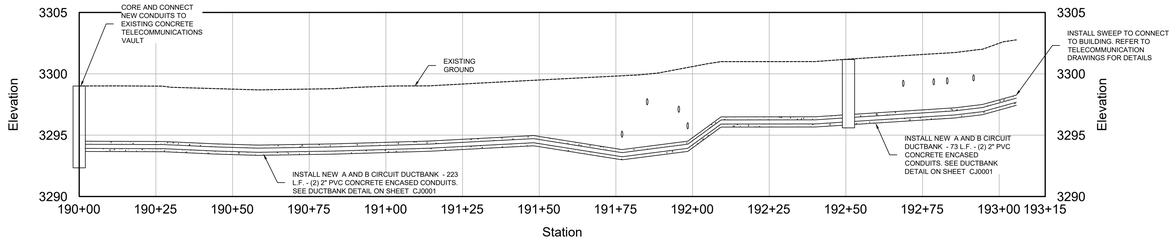

A & B CIRCUIT FIBER OPTICS PROFILE
STA: 190+00 - 193+06

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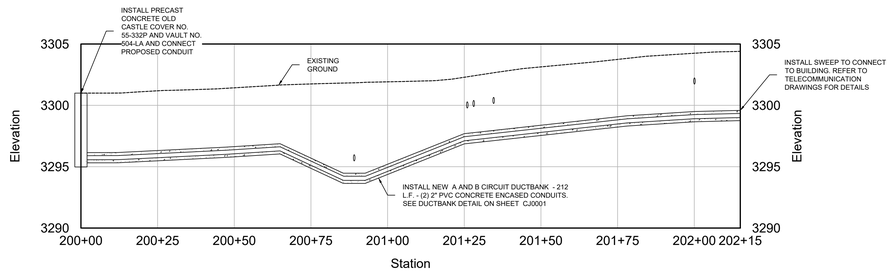
SCALE: H: 1"=20'-0" V:1"=5'-0"



A & B CIRCUIT FIBER OPTICS PROFILE
STA: 200+00 - 202+15

5

SCALE: H: 1"=20'-0" V:1"=5'-0"

65% REV 1 - CONSTRUCTION DOCUMENTS	07/01/2024
95% REV 1 - CONSTRUCTION DOCUMENTS	08/26/2024
Revisions:	Date:

CONSULTANT

CIVIL ENGINEER:
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
CELYN DEZMAIN, PE

ARCHITECT/ENGINEER OF RECORD

A/E:
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
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GDM ARCHITECTS • ENGINEERS

STAMP

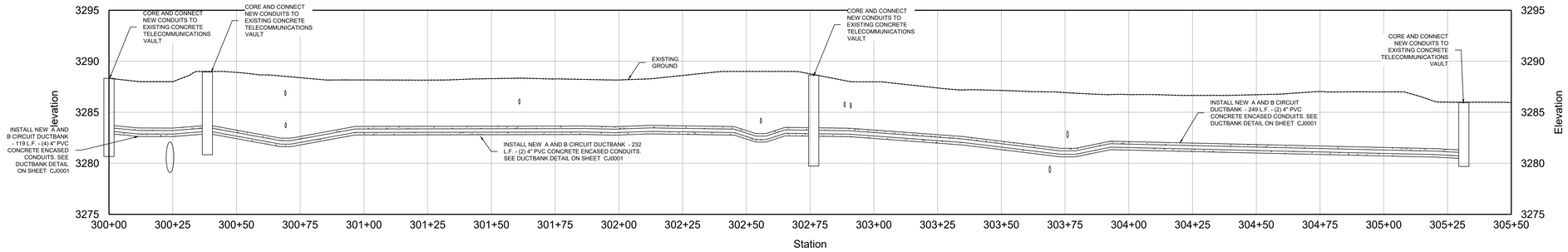
CELYN J. DEZMAIN LICENSE No. 84232 STATE OF FLORIDA PROFESSIONAL ENGINEER

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

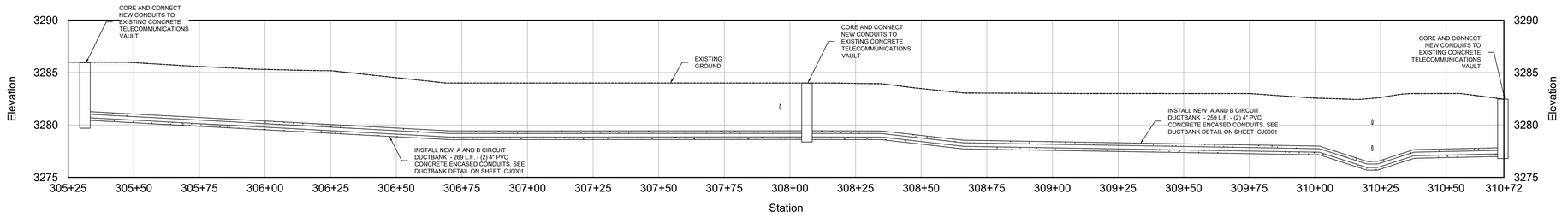
DRAWING TITLE: CIVIL - FIBER OPTICS PROFILES	PHASE: 100% - CONSTRUCTION DOCUMENTS	PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADE	PROJECT NO.: 568-21-701
			BUILDING NO.:
APPROVED: VA PROJECT DIRECTOR: FOR OFFICIAL USE ONLY (FOUO)	FLS: FULLY SPRINKLERED	LOCATION: FORT MEADE, SOUTH DAKOTA	DRAWING NO.: CU0202
		ISSUE DATE: 11/05/2024 / CHECKED: CD / DRAWN: DT	

VA FORM 08 - 6231



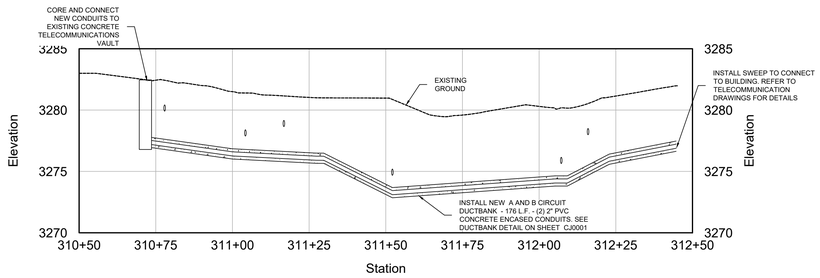
1 A & B CIRCUIT FIBER OPTICS PROFILE
STA: 300+00 - 305+31

SCALE: H: 1"=20'-0" V:1"=5'-0"



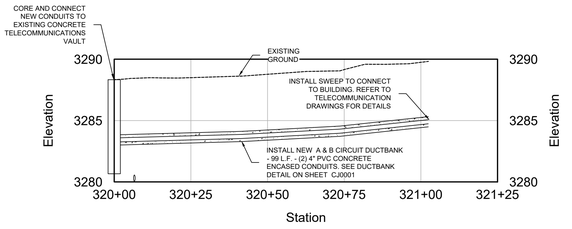
2 A & B CIRCUIT FIBER OPTICS PROFILE
STA: 305+31 - 310+72

SCALE: H: 1"=20'-0" V:1"=5'-0"



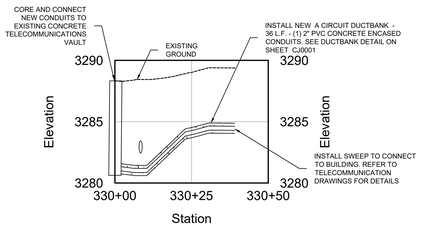
3 A & B CIRCUIT FIBER OPTICS PROFILE
STA: 310+72 - 312+45

SCALE: H: 1"=20'-0" V:1"=5'-0"



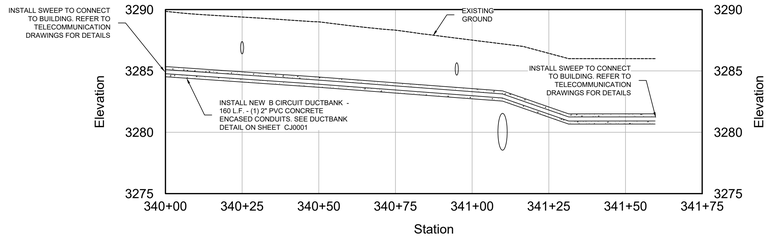
4 A & B CIRCUIT FIBER OPTICS PROFILE
STA: 320+00 - 321+02

SCALE: H: 1"=20'-0" V:1"=5'-0"



5 A CIRCUIT FIBER OPTICS PROFILE
STA: 330+00 - 330+39

SCALE: H: 1"=20'-0" V:1"=5'-0"



6 B CIRCUIT FIBER OPTICS PROFILE
STA: 340+00 - 341+60

SCALE: H: 1"=20'-0" V:1"=5'-0"

Revisions:	Date:
65% REV 1 - CONSTRUCTION DOCUMENTS	07/01/2024
95% REV 1 - CONSTRUCTION DOCUMENTS	08/26/2024

CONSULTANT

CIVIL ENGINEER:
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
CELYN DEZMAIN, PE

ARCHITECT/ENGINEER OF RECORD

A/E:
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP

CELYN J. DEZMAIN LICENSE No. 84232 STATE OF FLORIDA PROFESSIONAL ENGINEER

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

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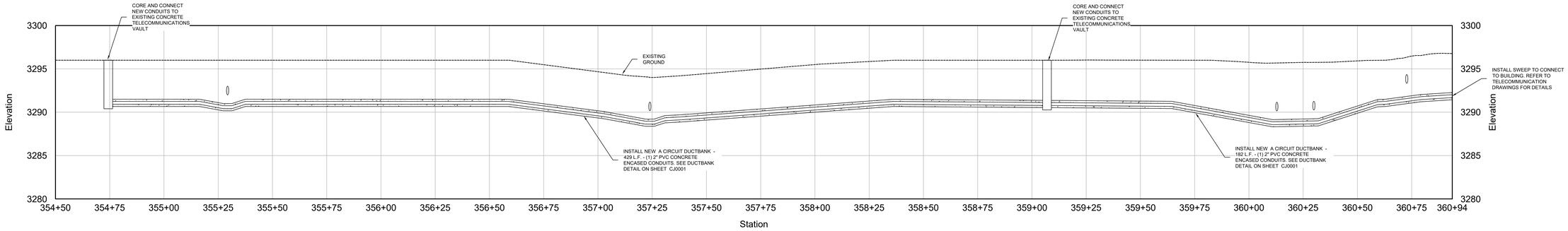
DRAWING TITLE: CIVIL - FIBER OPTICS PROFILES	PHASE: 100% - CONSTRUCTION DOCUMENTS
APPROVED: VA PROJECT DIRECTOR: FOR OFFICIAL USE ONLY (FOUO)	FLS: FULLY SPRINKLERED

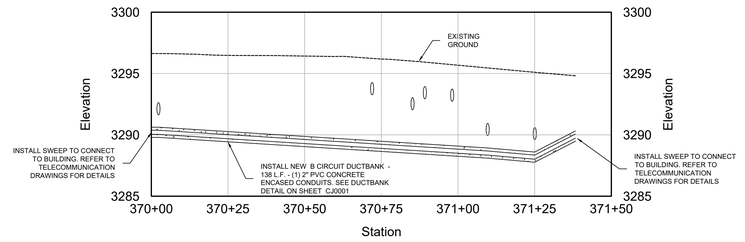
PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADE			PROJECT NO.: 568-21-701
			BUILDING NO.:
LOCATION: FORT MEADE, SOUTH DAKOTA			DRAWING NO.: CU0203
ISSUE DATE: 11/05/2024	CHECKED: CD	DRAWN: DT	

VA FORM 08 - 6231



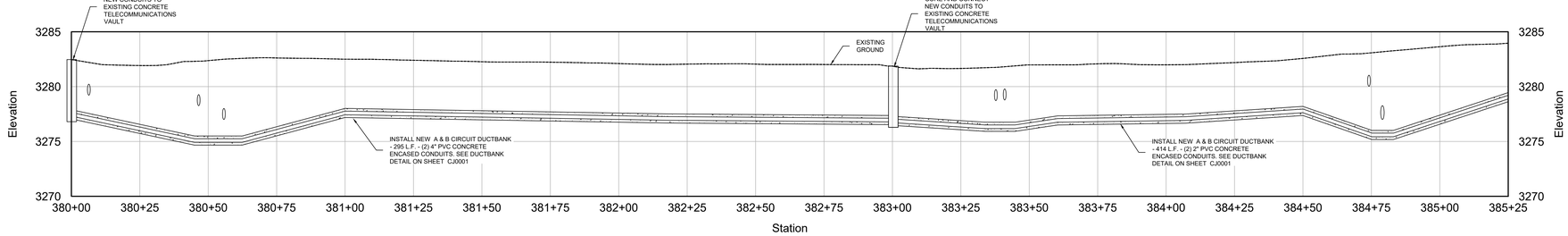
1 A CIRCUIT FIBER OPTICS PROFILE
STA: 354+74 - 360+94

SCALE: H: 1"=20'-0" V:1"=5'-0"



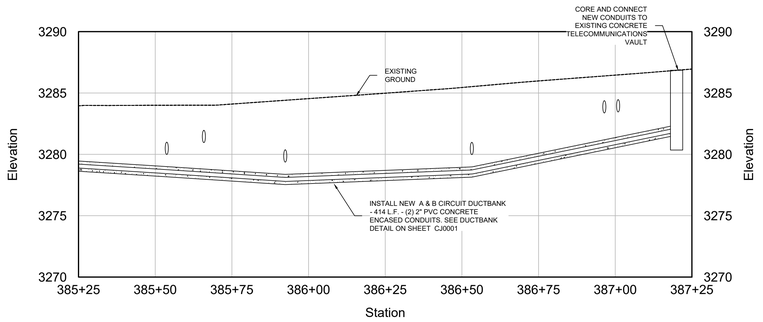
2 B CIRCUIT FIBER OPTICS PROFILE
STA: 370+00 - 371+38

SCALE: H: 1"=20'-0" V:1"=5'-0"



3 A& B CIRCUIT FIBER OPTICS PROFILE
STA: 380+00 - 385+25

SCALE: H: 1"=20'-0" V:1"=5'-0"



4 A& B CIRCUIT FIBER OPTICS PROFILE
STA: 385+25 - 385+20

SCALE: H: 1"=20'-0" V:1"=5'-0"

Revisions:	Date:
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CONSULTANT

CIVIL ENGINEER:
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
CELYN DEZMAIN, PE

ARCHITECT/ENGINEER OF RECORD

A/E:
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP

CELYN J. DEZMAIN LICENSE No. 84232 STATE OF FLORIDA PROFESSIONAL ENGINEER

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

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PHASE	100% - CONSTRUCTION DOCUMENTS
PROJECT TITLE	EHRM INFRASTRUCTURE UPGRADE
PROJECT NO.	568-21-701
BUILDING NO.	
APPROVED: VA PROJECT DIRECTOR	FOR OFFICIAL USE ONLY (FOUO)
FLS	FULLY SPRINKLERED
LOCATION	FORT MEADE, SOUTH DAKOTA
DRAWING NO.	CU0204
ISSUE DATE	11/05/2024
CHECKED	CD
DRAWN	DT

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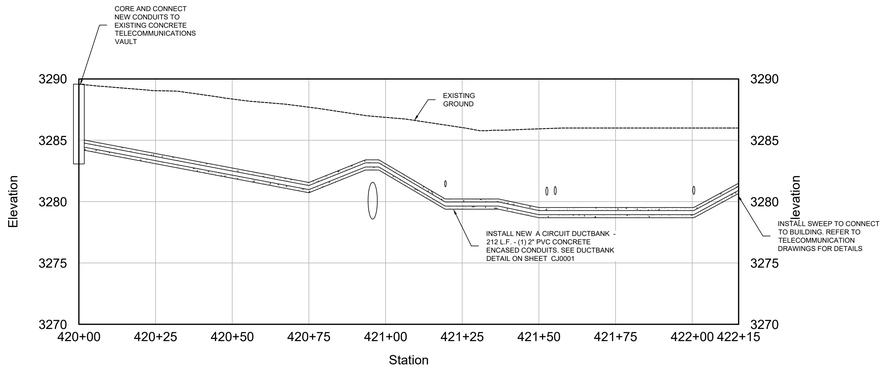
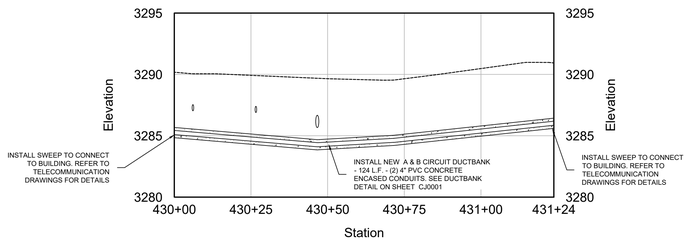


1

A CIRCUIT FIBER OPTICS PROFILE
STA: 430+00 - 431+24

SCALE: H: 1"=20'-0" V:1"=5'-0"



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A & B CIRCUIT FIBER OPTICS PROFILE
STA: 430+00 - 431+24

SCALE: H: 1"=20'-0" V:1"=5'-0"

Revisions:	Date:
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95% REV 1 - CONSTRUCTION DOCUMENTS	08/26/2024

CONSULTANT

CIVIL ENGINEER:
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
CELYN DEZMAIN, PE

ARCHITECT/ENGINEER OF RECORD

A/E:
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP

CELYN J. DEZMAIN LICENSE No. 84232 STATE OF FLORIDA PROFESSIONAL ENGINEER

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APPROVED: VA PROJECT DIRECTOR: FOR OFFICIAL USE ONLY (FOUO)	FLS: FULLY SPRINKLERED
PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADE	PROJECT NO.: 568-21-701
BUILDING NO.	
LOCATION: FORT MEADE, SOUTH DAKOTA	DRAWING NO.: CU0205
ISSUE DATE: 11/05/2024 / CHECKED: CD / DRAWN: DT	

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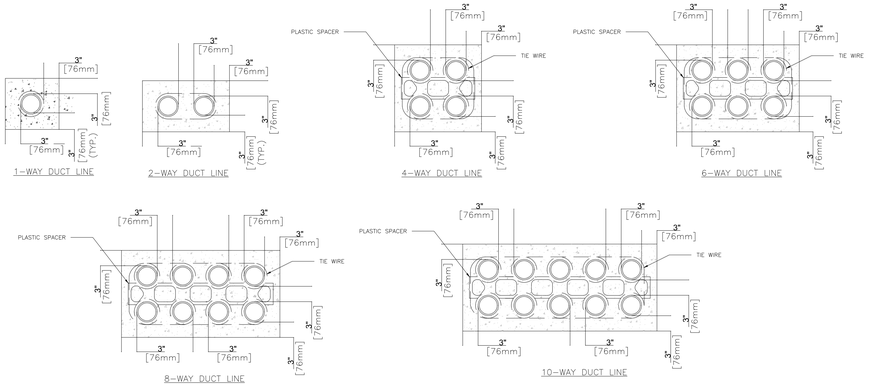
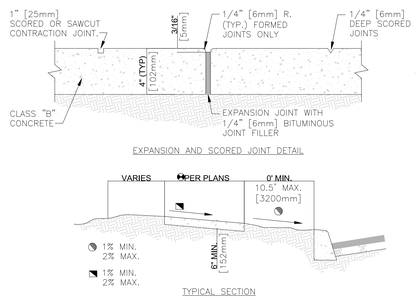
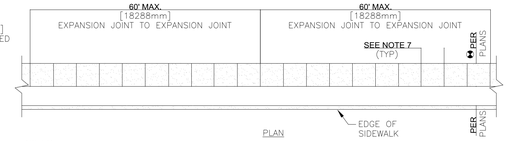


DUCT BANK NOTES:

1. CONCRETE SHALL BE 3000 P.S.I. @ 28 DAYS, OR AS SPECIFIED.
2. PROVIDE REINFORCING RODS ON TOP OF DUCTS WHEN CROSSING OR PLACED IN ROADWAYS.
3. MINIMUM COVER TO TOP OF ENVELOPE SHALL BE 54" [610mm].
4. NON-FERROUS TIE WIRES TO BE IMBEDDED IN DUCT BED CONCRETE.
5. PROVIDE MINIMUM 6" [152mm] SPACE BETWEEN POWER AND TELECOMMUNICATION DUCTS. INCREASE SIZE AS REQUIRED.
6. INNERDUCT QUANTITY AND SIZE AS INDICATED ON PLANS.

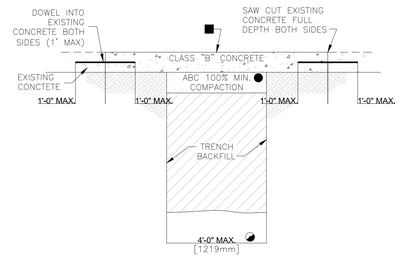
1 DUCT BANK DETAILS
SCALE: NTS





NOTES:
1. EXPANSION JOINTS SHALL BE LOCATED WHERE SIDEWALK ABUTS CONCRETE DRIVEWAYS, CURB OR OTHER ADJACENT STRUCTURES.
2. ONE-HALF INCH BITUMINOUS JOINT FILLER SHALL BE INSTALLED AT EXPANSION JOINT LOCATIONS AND SHALL EXTEND THE FULL DEPTH OF THE CONCRETE.
3. 1" DEEP CONTRACTION JOINTS SHALL BE PLACED AT INTERVALS OF APPROXIMATELY 15' [4572mm] OR AT A SPACING THAT MATCHES THE ADJACENT CURB.
4. FORMED CONTRACTION JOINTS SHALL BE FINISHED WITH A TOOL HAVING A 1/4" [6mm] RADIUS.
5. SCORED JOINTS SHALL BE 1/4" [6mm] DEEP AND PLACED AT THE SPACING INDICATED FOR THE WIDTH OF SIDEWALK OR MATCH SCORED JOINTS OF ADJACENT CURB.
6. CONCRETE SHALL BE FINISHED BY MEANS OF A FLOAT, STEEL TROWELLED AND BROOMED WITH A FINE BRUSH IN A TRANSVERSE DIRECTION.
7. 1/4" DEEP SCORED JOINTS (TYP) SPACED AT 6' [1829mm] OR EQUAL TO SIDEWALK WIDTH.

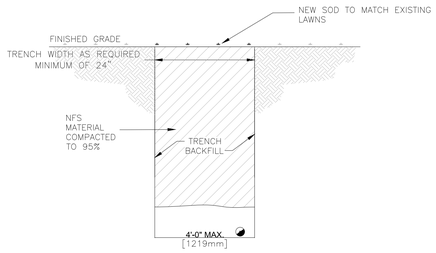
2 CONCRETE SIDEWALK
SCALE: NTS



- ◕ FOR TRENCH WIDTHS EXCEEDING 4' [1219mm] REFER TO VA STANDARD DETAIL 32 12 16-02 "TYPE 2 UTILITY TRENCH PATCH". FOR TRENCH WHERE PORTLAND CEMENT CONCRETE (PCC) PAVEMENT EXISTS, REFER TO 32 12 16-03 "TYPE 3 UTILITY TRENCH PATCH".
- ■ REFER TO CONCRETE SIDEWALK DETAIL.
- ● 4" [100mm] MINIMUM ABC OR THICKNESS OF EXISTING GRANULAR BASE COURSE MATERIALS (E.G. ABC & SELECT MATERIAL) WHICHEVER IS GREATER.

REFER TO VA STANDARD DETAIL 32 12 16-04 "UTILITY TRENCH PAVEMENT PATCH NOTES" FOR ADDITIONAL INFORMATION.

3 SIDEWALK UTILITY TRENCH PATCH
SCALE: NTS



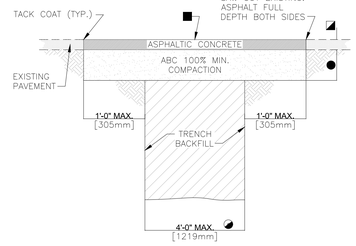
- ◕ FOR TRENCH WIDTHS EXCEEDING 4' [1219mm] REFER TO VA STANDARD DETAIL 32 12 16-02 "TYPE 2 UTILITY TRENCH PATCH". FOR TRENCH WHERE PORTLAND CEMENT CONCRETE (PCC) PAVEMENT EXISTS, REFER TO 32 12 16-03 "TYPE 3 UTILITY TRENCH PATCH".

REFER TO VA STANDARD DETAIL 32 12 16-04 "UTILITY TRENCH PAVEMENT PATCH NOTES" FOR ADDITIONAL INFORMATION.

4 LANDSCAPING UTILITY TRENCH PATCH
SCALE: NTS

UTILITY TRENCH PATCH NOTES:

1. MATERIAL AND COMPACTION REQUIREMENTS FOR PIPE BEDDING/SHADING SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS FOR THE APPLICABLE UTILITY PIPE.
2. TRENCH BACKFILL SHALL COMMENCE 1 FOOT [305mm] ABOVE THE TOP OF PIPE AND SHALL BE PER SECTION 31 20 11-EARTHWORK.
3. BACKFILL COMPACTION REQUIREMENTS SHALL BE PER SECTION 31 20 11-EARTHWORK.
4. THE 1 FOOT [305mm] TRENCH "SHOULDER" AREAS SHALL BE DELETED FOR TYPE 2 TRENCHES.
5. ABC SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 32 05 23-CEMENT AND CONCRETE FOR EXTERIOR IMPROVEMENTS.
6. PORTLAND CEMENT CONCRETE SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 32 05 23-CEMENT AND CONCRETE FOR EXTERIOR IMPROVEMENTS.
7. IF THE CONCRETE SLAB REMAINING NEXT TO A LONGITUDINAL OR TRANSVERSE JOINT IS LESS THAN 6 FEET [1829mm] AT ITS NARROWEST WIDTH, REMOVE AND REPLACE THE EXISTING CONCRETE TO THE JOINT.
8. WHERE CONCRETE RESTORATION IS REQUIRED FOR EXISTING SIDEWALKS, CONTRACTOR SHALL REMOVE AND REPLACE ENTIRE PORTION OF SIDEWALK FLAG AS DELINEATED BY EXISTING EXPANSION AND ISOLATION JOINTS. WHERE EXCAVATION OCCURS OVER MULTIPLE FLAGS, CONTRACTOR SHALL REMOVE AND REPLACE TO THE LIMITS OF EACH FLAG ON EITHER SIDE OF THE TRENCH



- ◕ FOR TRENCH WIDTHS EXCEEDING 4' [1219mm] REFER TO VA STANDARD DETAIL 32 12 16-02 "TYPE 2 UTILITY TRENCH PATCH". FOR TRENCH WHERE PORTLAND CEMENT CONCRETE (PCC) PAVEMENT EXISTS, REFER TO 32 12 16-03 "TYPE 3 UTILITY TRENCH PATCH".
- ◪ 2" [50mm] MINIMUM OR THICKNESS OF EXISTING PAVEMENT WHICHEVER IS GREATER.
- ■ BITUMINOUS SURFACE TREATMENT (CHIPSEAL) REQUIRED ONLY FOR LONGITUDINAL TRENCHES WITH WIDTHS GREATER THAN 6' [1829mm].
- ● 4" [100mm] MINIMUM ABC OR THICKNESS OF EXISTING GRANULAR BASE COURSE MATERIALS (E.G. ABC & SELECT MATERIAL) WHICHEVER IS GREATER.

REFER TO VA STANDARD DETAIL 32 12 16-04 "UTILITY TRENCH PAVEMENT PATCH NOTES" FOR ADDITIONAL INFORMATION.

5 ASPHALTIC CONCRETE TRENCH PATCH
SCALE: NTS

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CONSULTANT
CIVIL ENGINEER:
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
CELYN DEZMAIN, PE

ARCHITECT/ENGINEER OF RECORD
A/E:
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE
GDM ARCHITECTS • ENGINEERS

STAMP
CELYN J. DEZMAIN LICENSE No. 84232 STATE OF FLORIDA PROFESSIONAL ENGINEER

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT
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DRAWING TITLE	CIVIL - DETAILS
PHASE	100% - CONSTRUCTION DOCUMENTS
PROJECT TITLE	EHRM INFRASTRUCTURE UPGRADE
PROJECT NO.	568-21-701
BUILDING NO.	
APPROVED: VA PROJECT DIRECTOR	FOR OFFICIAL USE ONLY (FOUO)
FLS	FULLY SPRINKLERED
LOCATION	FORT MEADE, SOUTH DAKOTA
ISSUE DATE	11/05/2024
CHECKED	CD
DRAWN	DT
DRAWING NO.	CJ0001

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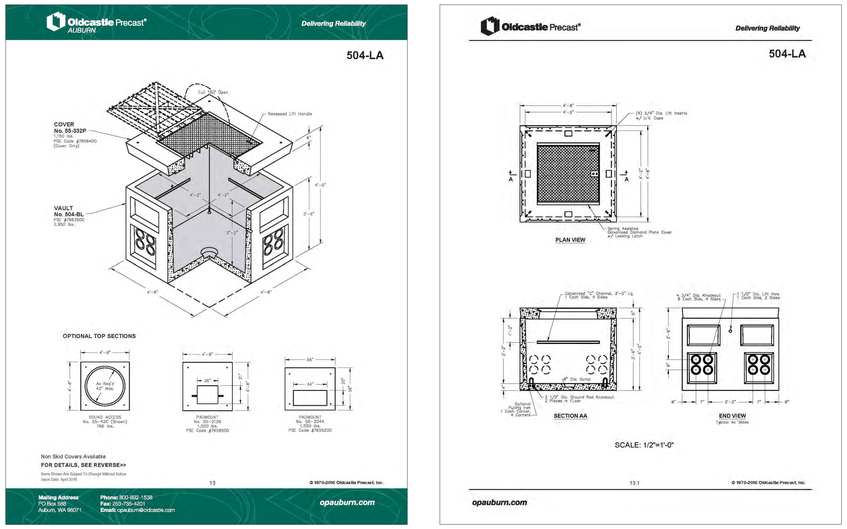
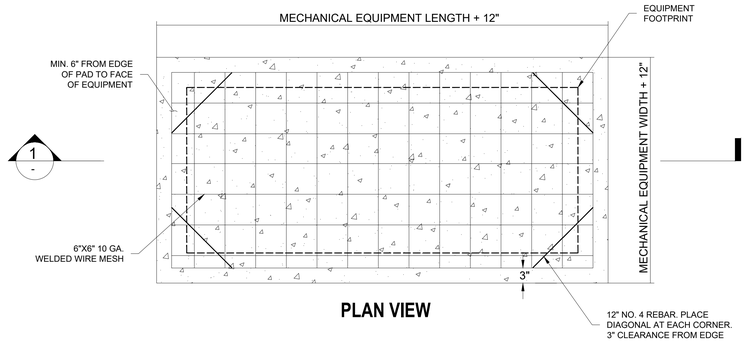
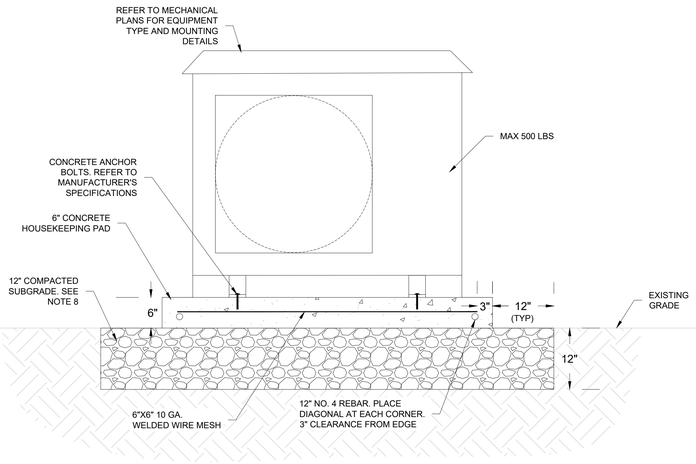


1 PRE CAST CONCRETE TELECOMMUNICATION VAULT

SCALE: NTS



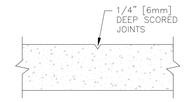


2 OUTDOOR MECHANICAL EQUIPMENT FOUNDATION DETAIL

SCALE: NTS

NOTES:

1. PROVIDE FALSE WORK AND SHORING AS REQUIRED FOR NEW AND EXISTING MATERIALS.
2. EQUALLY SPACED CONTROL JOINTS REQUIRED IF SURFACE IS GREATER THAN 100 SQUARE FEET.
3. 500 POUNDS MAXIMUM ALLOWABLE EQUIPMENT WEIGHT.
4. MINIMUM CONCRETE STRENGTH: 3000 PSI @ 28 DAYS.
5. MINIMUM CONCRETE COVER OF 3".
6. REFER TO MECHANICAL PLANS FOR HORIZONTAL CLEARANCE AND ORIENTATION REQUIRED FOR EQUIPMENT.
7. REFER TO MECHANICAL PLANS FOR EQUIPMENT SIZING.
8. SUBGRADE SHALL BE CLEAN NATIVE FILL COMPACTED TO 95% MAXIMUM DRY DENSITY. NO ORGANIC MATERIAL SHALL BE ALLOWED.



CONTROL JOINT

Revisions:	Date:
65% REV 1 - CONSTRUCTION DOCUMENTS	07/01/2024
95% REV 1 - CONSTRUCTION DOCUMENTS	08/26/2024

CONSULTANT

CIVIL ENGINEER:
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
CELYN DEZMAIN, PE

ARCHITECT/ENGINEER OF RECORD

A/E:
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP

CELYN J. DEZMAIN LICENSE No. 84232 STATE OF FLORIDA PROFESSIONAL ENGINEER

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

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APPROVED: VA PROJECT DIRECTOR: FOR OFFICIAL USE ONLY (FOUO)	FLS: FULLY SPRINKLERED
PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADE	PROJECT NO.: 568-21-701
BUILDING NO.	
LOCATION: FORT MEADE, SOUTH DAKOTA	DRAWING NO.: CJ0002
ISSUE DATE: 11/05/2024	CHECKED: CD
DRAWN: DT	

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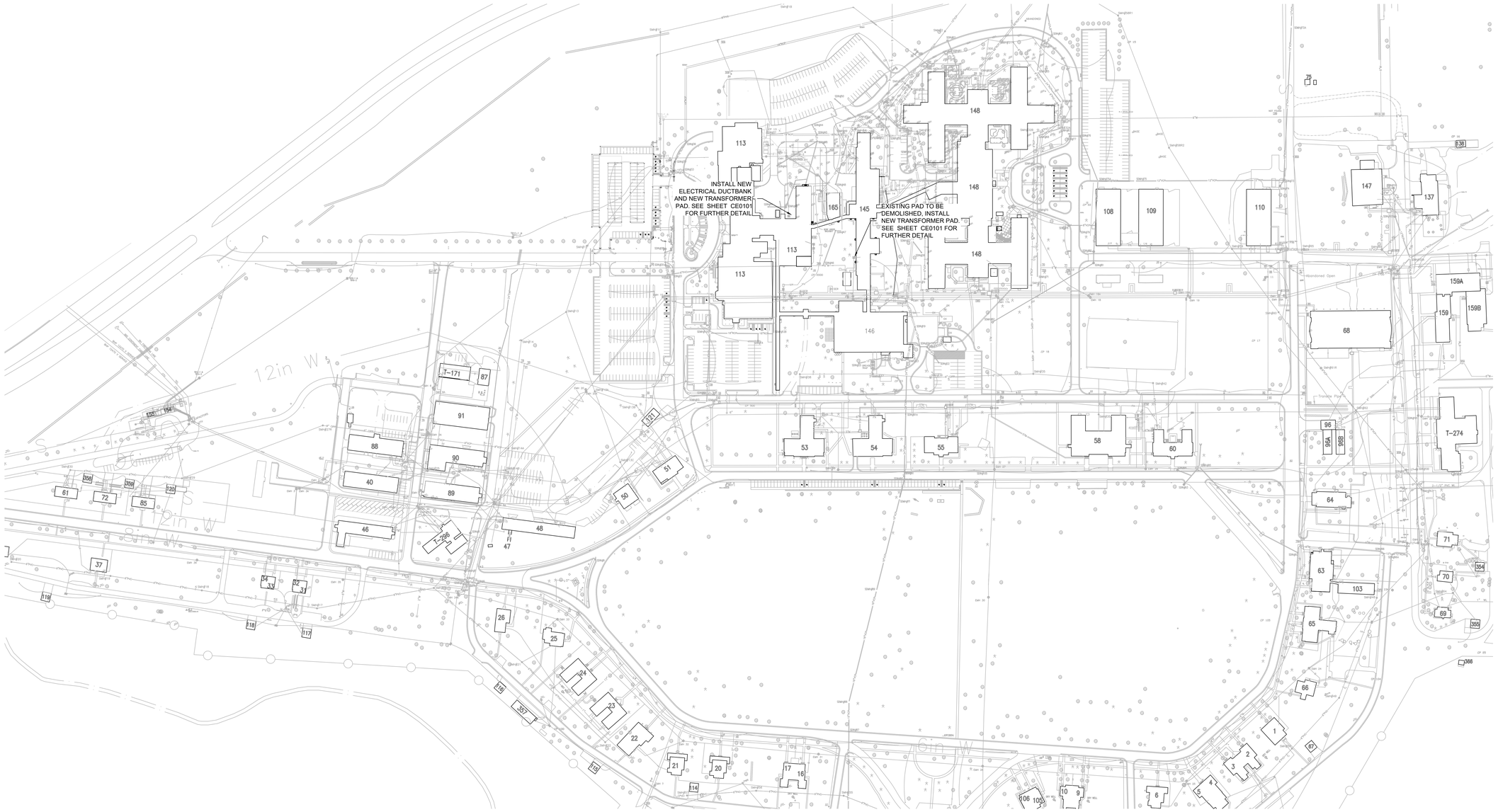

1 OVERALL ELECTRICAL SITE PLAN

SCALE: 1"=120'-0"

0 60 120 240'

NORTH

	65% REV 1 - CONSTRUCTION DOCUMENTS	07/01/2024
	95% REV 1 - CONSTRUCTION DOCUMENTS	08/26/2024
	Revisions:	Date:

CONSULTANT

CIVIL ENGINEER:
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
CELYN DEZMAIN, PE

ARCHITECT/ENGINEER OF RECORD

A/E:
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP

CELYN J. DEZMAIN LICENSE No. 84232 STATE OF FLORIDA PROFESSIONAL ENGINEER

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

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DRAWING TITLE: CIVIL - OVERALL ELECTRICAL SITE PLAN	PHASE: 100% - CONSTRUCTION DOCUMENTS	PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADE	PROJECT NO.: 568-21-701
			BUILDING NO.:
APPROVED: VA PROJECT DIRECTOR: FOR OFFICIAL USE ONLY (FOUO)	FLS: FULLY SPRINKLERED	LOCATION: FORT MEADE, SOUTH DAKOTA	DRAWING NO.: CE0100
		ISSUE DATE: 11/05/2024 / CHECKED: CD / DRAWN: DT	

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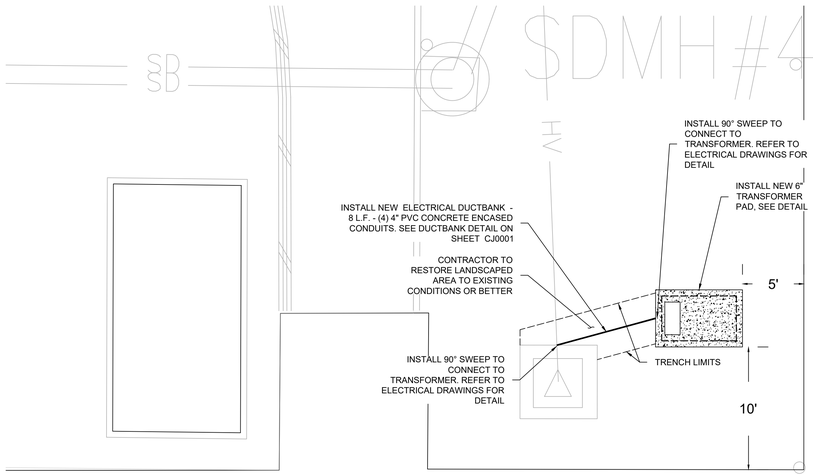


113

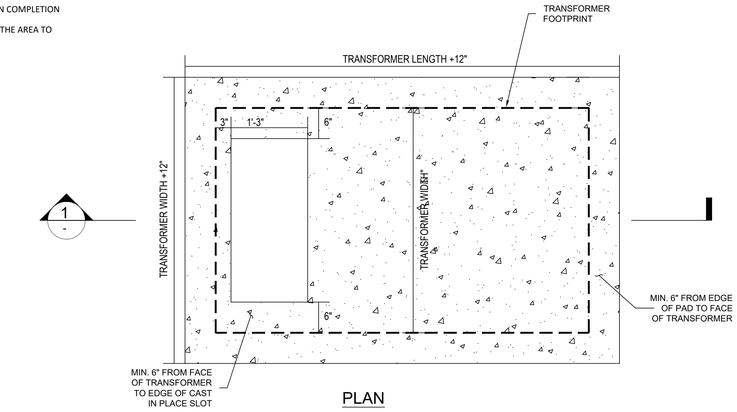
1 CIVIL - ELECTRICAL PLAN - BLDG 113

SCALE: 1"=5-0"

NORTH

GENERAL NOTES:

1. ALL PVC CONDUITS TO BE 4-INCH DIAMETER, SCHEDULE 40 PVC.
2. REFER TO SPECIFICATIONS FOR TRENCHING BACKFILLING AND COMPACTION REQUIREMENTS
3. REFER TO ELECTRICAL PLANS FOR INSTALLATION OF ALL CONDUIT WITHIN 5.0-FT OF BUILDINGS AND IN OTHER LOCATIONS NOTED ON CIVIL PLANS.
4. TOPS OF CONCRETE ENCASED DUCTS SHALL BE 24" MIN. UNDER TURF AREAS OF 30" MIN. BELOW PAVED SURFACES, AND NOT LESS THAN DEPTHS SHOWN ON CIVIL PLANS.
5. ALL CONCRETE-ENCASED CONDUIT IS EXPECTED TO BE INSTALLED BY OPEN TRENCH. DIRECTIONAL BORING OR JACKING OF CONDUIT IS NOT ANTICIPATED FOR THIS PROJECT. IF CONTRACTOR WISHES TO INSTALL BY BORING OR JACKING, PLANS TO DO SO MUST BE APPROVED BY THE COR PRIOR TO CONSTRUCTION.
6. BEFORE PERFORMING TRENCHING WORK, CONTRACTOR SHALL PERFORM A GROUND PENETRATING RADAR SURVEY TO REVEAL ALL EXISTING UNDERGROUND DUCTS, CONDUITS, CABLES AND OTHER UTILITY SYSTEMS.
7. ALL MULTIPLE CONDUIT RUNS SHALL HAVE CONDUIT SPACERS SECURELY SUPPORTING AND MAINTAINING UNIFORM SPACING OF THE DUCT ASSEMBLY AND SHALL BE INSTALLED IN ACCORDANCE SPECIFICATIONS AND DUCT BANK DETAILS.
8. PITCH CONDUIT TRENCHES TOWARD MANHOLES/PULLBOXES, OR BOTH WAYS FROM HIGH POINTS BETWEEN STRUCTURES WITH A MINIMUM SLOPE OF 0.40% TO ACHIEVE REQUIRED DUCT LINE DRAINAGE.
9. AVOID SLOPING CONDUIT DUCTS TOWARD BUILDINGS.
10. AFTER CONCRETE-ENCASED DUCTS HAVE SUFFICIENTLY CURED, CONTRACTOR SHALL BACKFILL TRENCH IN GRADE WITH EARTH, AND INSTALL THE APPROPRIATE WARNING TAPE APPROXIMATELY 12" ABOVE THE DUCTS.
11. MAINTAIN 12" MINIMUM VERTICAL SEPARATION BETWEEN EXTERIOR OF CONCRETE ENCASEMENT OF DUCT LINES AND OTHER UTILITY SYSTEMS INCLUDING SANITARY SEWER, WATER MAIN, STORM SEWER, AND CHILLED WATER AT ALL CROSSINGS.
12. KEEP DUCTS CLEAN OF EARTH, SAND, OR GRAVEL AND SEAL WITH TAPERED PLUGS UPON COMPLETION OF EACH PORTION OF WORK.
13. CONTRACTOR SHALL PROTECT ANY ADJACENT EXISTING CONCRETE SIDEWALKS WITHIN THE AREA TO AVOID DAMAGE.



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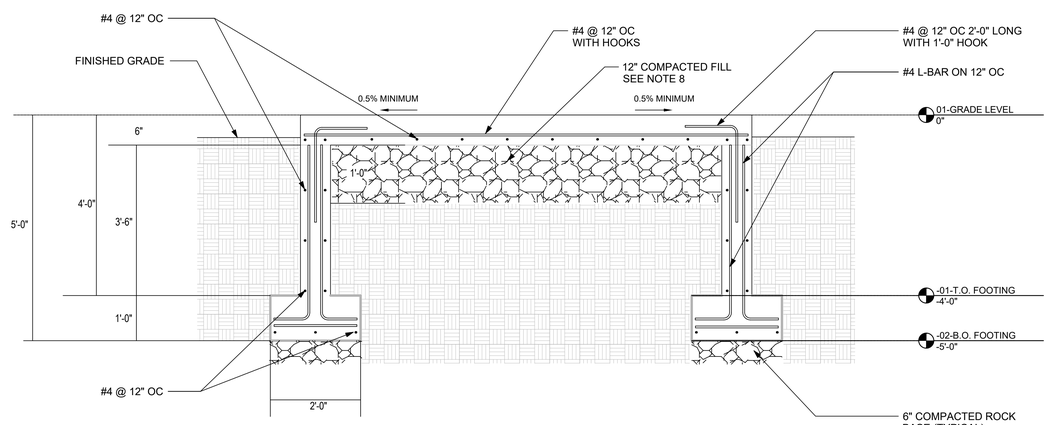
PLAN



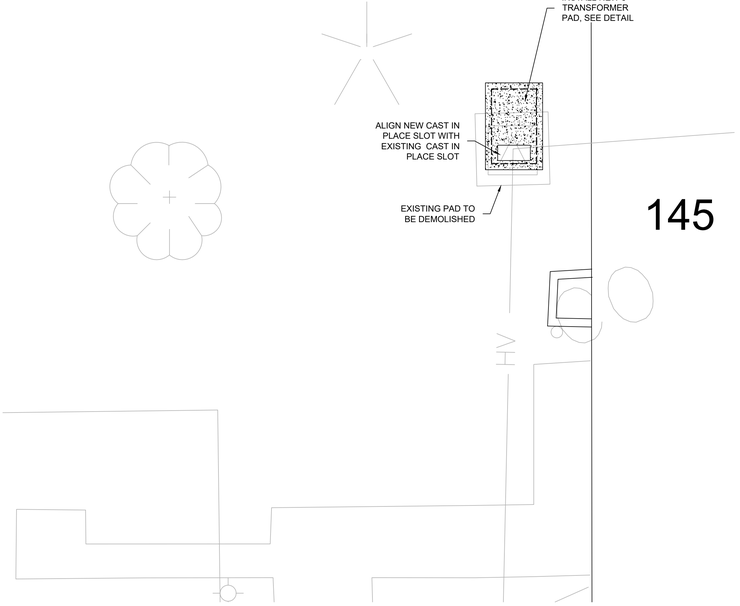
SECTION 1

TRANSFORMER PAD NOTES:

1. PROVIDE FALSE WORK AND SHORING AS REQUIRED FOR NEW AND EXISTING MATERIALS.
2. CONTROL JOINTS REQUIRED IF SURFACE IS GREATER THAN 100 SQUARE FEET.
3. 5,000 POUNDS MAXIMUM ALLOWABLE EQUIPMENT WEIGHT.
4. MINIMUM CONCRETE STRENGTH: 3500 PSI @ 28 DAYS.
5. MINIMUM CONCRETE COVER OF 3".
6. REFER TO ELECTRUCAL PLANS FOR HORIZONTAL CLEARANCE AND ORIENTATION REQUIRED FOR EQUIPMENT.
7. REFER TO ELECTRICAL PLANS FOR EQUIPMENT SIZING.
8. SUBGRADE SHALL BE CLEAN NATIVE FILL COMPACTED TO 95% MAXIMUM DRY DENSITY. NO ORGANIC MATERIAL SHALL BE ALLOWED.

3 TRANSFORMER PAD DETAIL

SCALE: NTS



145

NORTH

2 CIVIL - ELECTRICAL PLAN - BLDG 145

SCALE: 1"=10-0"

Revisions:	Date:
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95% REV 1 - CONSTRUCTION DOCUMENTS	08/26/2024

CONSULTANT

CIVIL ENGINEER:
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
CELYN DEZMAIN, PE

ARCHITECT/ENGINEER OF RECORD

A/E:
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP

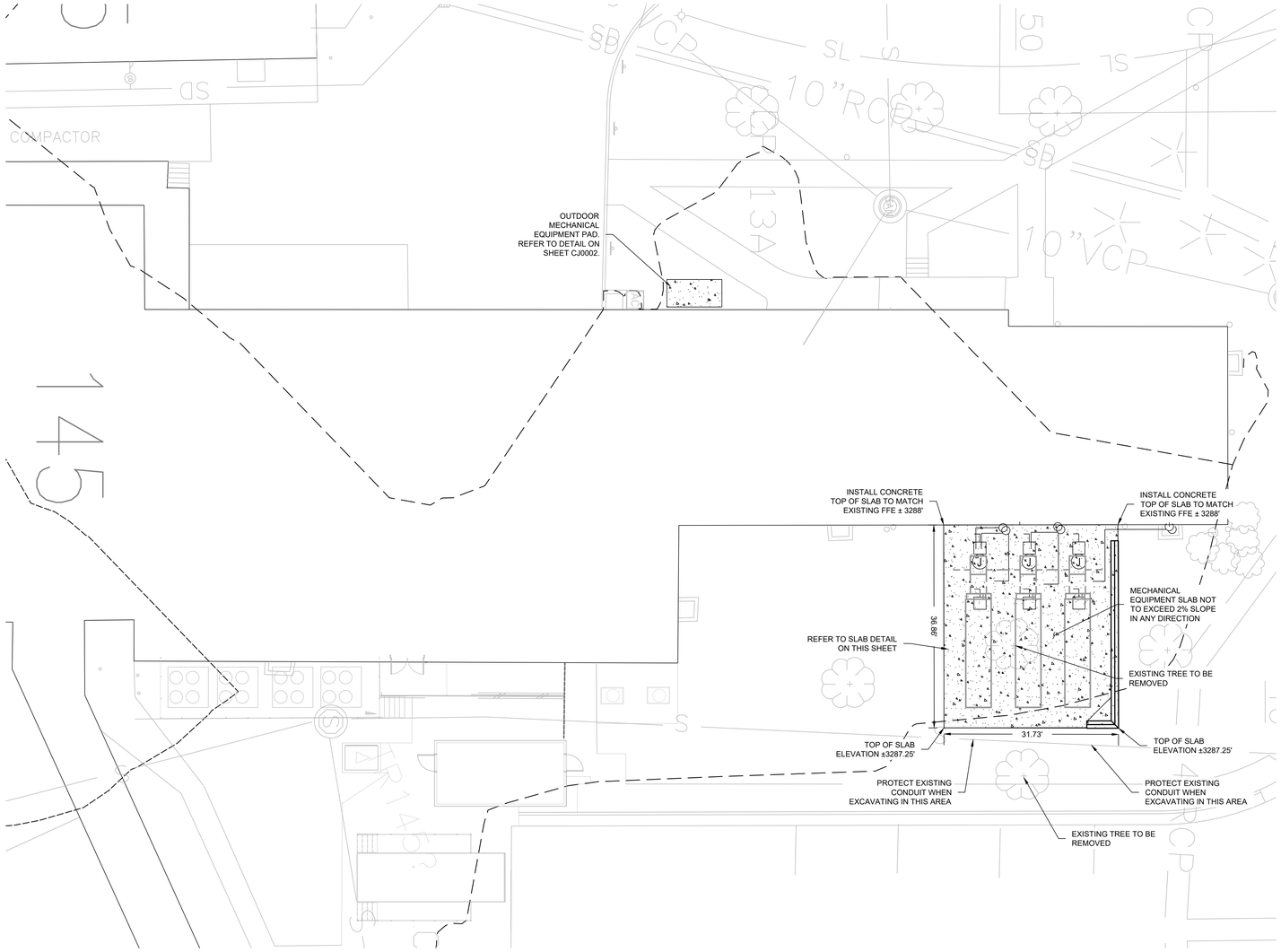
CELYN J. DEZMAIN LICENSE No. 84232 STATE OF FLORIDA PROFESSIONAL ENGINEER

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE	CIVIL - ELECTRICAL PLAN
PHASE	100% - CONSTRUCTION DOCUMENTS
PROJECT TITLE	EHRM INFRASTRUCTURE UPGRADE
PROJECT NO.	568-21-701
BUILDING NO.	
APPROVED: VA PROJECT DIRECTOR	FOR OFFICIAL USE ONLY (FOUO)
FLS	FULLY SPRINKLERED
LOCATION	FORT MEADE, SOUTH DAKOTA
ISSUE DATE	11/05/2024
CHECKED	CD
DRAWN	DT
DRAWING NO.	CE0101

VA FORM 08 - 6231

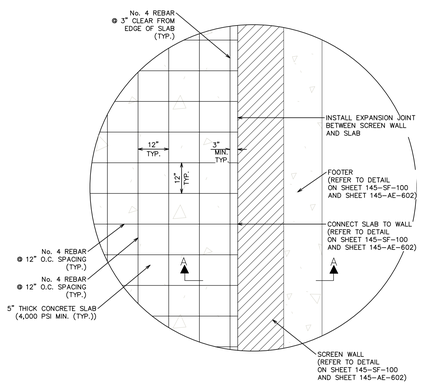


1 BLDG.145 GRADING PLAN

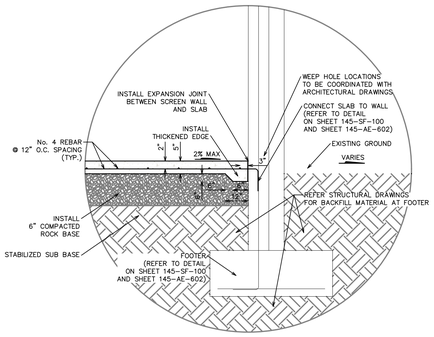
SCALE: 1"=10'-0"

0 5' 10' 20'

NORTH



PLAN VIEW



SECTION A–A

CONCRETE SLAB DETAIL

NOTE: 4,000 PSI CONCRETE AFTER 28 DAYS.

NOTES:

1. CONTRACTOR SHALL VERIFY EXISTING ELEVATIONS PRIOR TO CONSTRUCTION AND ENSURE THAT ADA SLOPES WILL BE MET.
2. SLAB SHALL NOT EXCEED 2% CROSS SLOPE AND 5% LONGITUDINAL SLOPE.
3. ALL WALK WAY LANDINGS SHALL BE 2% MAX SLOPE IN ALL DIRECTIONS.
4. REFER TO STRUCTURAL DETAIL FOR CONNECTION TO FOOTER AND WALL.
5. ALL CONCRETE SHALL BE 4,000 PSI AFTER 28 DAYS.
6. ROOT BARRIERS MAY BE REQUIRED DUE TO CLOSE PROXIMITY TO EXISTING TREES AND WILL BE INSTALLED AT THE DISCRETION OF THE COR.
7. CONCRETE TRUCKS SHALL NOT DUMP EXCESS CONCRETE OR WASH OUT THE TRUCK IN THIS AREA.
8. CONTRACTOR SHALL COORDINATE WITH THE ARCHITECTURAL DRAWINGS TO CONNECT THE PROPOSED SLAB TO THE EXISTING BUILDING.
9. ALL CONCRETE SHALL RECEIVE A TROWELED EDGE AND BROOMED FINISH.
10. CONTRACTOR SHALL ENSURE THE CONCRETE RECEIVES CURING AGENT AND THAT THE MANUFACTURER RECOMMENDATIONS ARE FOLLOWED.
11. CONTRACTOR SHALL REPAIR OR REPLACE TO EXISTING CONDITION OR BETTER ANY IRRIGATION, LANDSCAPING, EXISTING SITE IMPROVEMENTS ETC. THAT ARE DAMAGED DURING CONSTRUCTION.
12. CONTRACTOR SHALL NOT STOCK PILE ANY MATERIAL.
13. CONTRACTOR SHALL HAUL ANY SURPLUS MATERIAL OFFSITE.
14. SLAB SHALL RECEIVE REINFORCEMENT AT DISCRETION OF COR.
15. IF THE EXISTING GROUND ELEVATIONS EXCEED THE EXISTING FINISHED FLOOR ELEVATION, THE CONTRACTOR SHALL EXCAVATE THE PROPOSED LOCATION TO ENSURE THAT THE GROUND ELEVATION IS MIN. 2" BELOW TOP OF SLAB AND SHEDS AWAY FROM PROPOSED AND EXISTING BUILDING.
16. THE CONTRACTOR IS TO PROVIDE LOCATES, TEMPORARY SHORING, FALSEWORK, DEWATERING, AND OTHER SERVICES, TOOLS , AND SUPPLIES AS IS NECESSARY TO PERFORM THE CIVIL RELATED PORTIONS OF THE WORK.
17. CONTRACTOR SHALL PROVIDE MOT FOR ANY WORK WITHIN OR ADJACENT TO THE ROADWAY OR SIDEWALK.
18. ALL ELEVATIONS SHOWN HERE ON THE PLAN SHEETS ARE IN THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD-88)

Revisions:	Date:
65% REV 1 - CONSTRUCTION DOCUMENTS	07/01/2024
95% REV 1 - CONSTRUCTION DOCUMENTS	08/26/2024

CONSULTANT

CIVIL ENGINEER:
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
CELYN DEZMAIN, PE

ARCHITECT/ENGINEER OF RECORD

A/E:
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP

CELYN J. DEZMAIN LICENSE No. 84232 STATE OF FLORIDA PROFESSIONAL ENGINEER

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

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PHASE	100% - CONSTRUCTION DOCUMENTS
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PROJECT NO.	568-21-701
BUILDING NO.	
APPROVED: VA PROJECT DIRECTOR	FOR OFFICIAL USE ONLY (FOUO)
FLS	FULLY SPRINKLERED
LOCATION	FORT MEADE, SOUTH DAKOTA
ISSUE DATE	11/05/2024
CHECKED	CD
DRAWN	DT
DRAWING NO.	CG0100

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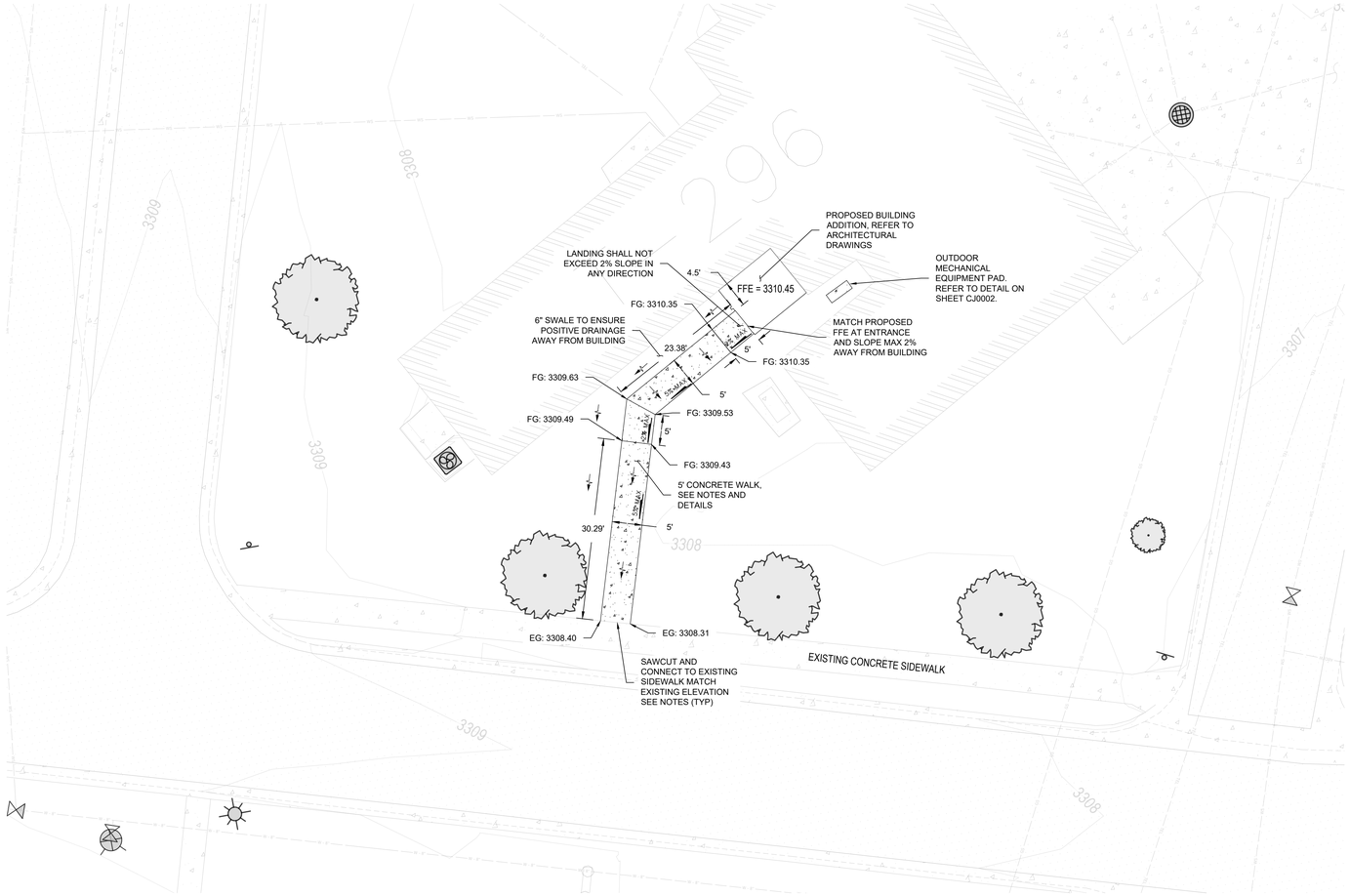

1 BLDG.T-296 GRADING PLAN

SCALE: 1"=10'-0"

0 5' 10' 20'

NORTH

NOTES:

1. CONTRACTOR SHALL VERIFY EXISTING ELEVATIONS PRIOR TO CONSTRUCTION AND ENSURE THAT ADA SLOPES WILL BE MET.
2. SIDEWALK SHALL NOT EXCEED 2% CROSS SLOPE AND 5% LONGITUDINAL SLOPE.
3. CONNECTION TO EXISTING SIDEWALK SHALL RECEIVE A CLEAN SAWCUT EDGE WHERE CONCRETE REMOVAL IS NECESSARY.
4. ALL WALK WAY LANDINGS SHALL BE 2% MAX SLOPE IN ALL DIRECTIONS.
5. REFER TO SIDEWALK DETAIL FOR JOINTS, WIDTH AND THICKNESS DIMENSIONS.
6. SIDEWALK SHALL RECEIVE DOWELS AT ALL COLD JOINTS. $\frac{1}{2}$" DIAMETER SMOOTH DOWELS LUBRICATED AT NEW PAVEMENT AND CORED AND EPOXIED AT EXISTING PAVEMENT. MIN 12" LONG EQUALLY SPACED.
7. ALL CONCRETE SHALL BE 4,000 PSI AFTER 28 DAYS.
8. ROOT BARRIERS MAY BE REQUIRED DUE TO CLOSE PROXIMITY TO EXISTING TREES AND WILL BE INSTALLED AT THE DISCRETION OF THE COR.
9. CONCRETE TRUCKS SHALL NOT DUMP EXCESS CONCRETE OR WASH OUT THE TRUCK IN THIS AREA.
10. CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT TO CONNECT THE SIDEWALK TO THE PROPOSED BUILDING ENTRANCE.
11. ALL CONCRETE SHALL RECEIVE A TROWELED EDGE AND BROOMED FINISH.
12. CONTRACTOR SHALL ENSURE THE CONCRETE RECEIVES CURING AGENT AND THAT THE MANUFACTURER RECOMMENDATIONS ARE FOLLOWED.
13. CONTRACTOR SHALL REPAIR OR REPLACE TO EXISTING CONDITION OR BETTER ANY IRRIGATION, LANDSCAPING, EXISTING SITE IMPROVEMENTS ETC. THAT ARE DAMAGED DURING CONSTRUCTION.
14. CONTRACTOR SHALL NOT STOCK PILE ANY MATERIAL.
15. CONTRACTOR SHALL HAUL ANY SURPLUS MATERIAL OFFSITE.
16. SIDEWALK SHALL RECEIVE REINFORCEMENT AT DISCRETION OF COR.
17. IF THE EXISTING SIDEWALK EXCEEDS 2% SLOPE AT THE PROPOSED CONNECTION LOCATION, THE CONTRACTOR SHALL REMOVE SIDEWALK (IN COMPLETE PANEL SECTIONS) TO ACHIEVE ADA SLOPE REQUIREMENTS. COORDINATE WITH COR AND EOR PRIOR TO REMOVAL.
18. THE CONTRACTOR IS TO PROVIDE LOCATES, TEMPORARY SHORING, FALSEWORK, DEWATERING, AND OTHER SERVICES, TOOLS , AND SUPPLIES AS IS NECESSARY TO PERFORM THE CIVIL RELATED PORTIONS OF THE WORK.
19. CONTRACTOR SHALL PROVIDE MOT FOR ANY WORK WITHIN OR ADJACENT TO THE ROADWAY OR SIDEWALK.
20. ALL ELEVATIONS SHOWN HERE ON THE PLAN SHEETS ARE IN THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD-88)

	65% REV 1 - CONSTRUCTION DOCUMENTS	07/01/2024
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	Revisions:	Date:

CONSULTANT

CIVIL ENGINEER:
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
CELYN DEZMAIN, PE

ARCHITECT/ENGINEER OF RECORD

A/E:
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP

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OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

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			BUILDING NO.:
APPROVED: VA PROJECT DIRECTOR: FOR OFFICIAL USE ONLY (FOUO)	FLS: FULLY SPRINKLERED	LOCATION: FORT MEADE, SOUTH DAKOTA	DRAWING NO.: CG0200
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VA FORM 08 - 6231

ABBREVIATIONS LIST:

BM	BEAM
CLR	CLEAR
COL	COLUMN
CONC	CONCRETE
COMP	COMPACTED
(E)	EXISTING
EA	EACH
EMBED	EMBEDMENT
EQ	EQUAL
HDG	HOT-DIPPED GALVANIZED
HORIZ	HORIZONTAL
HSS	HOLLOW STRUCTURAL STEEL
LLV	LONG LEG VERTICAL
MAX	MAXIMUM
MB	MACHINE BOLT
MFR	MANUFACTURER
MIN	MINIMUM
(N)	NEW
OPP	OPPOSITE
PL	PLATE
PT	POST TENSIONED OR PRESSURE TREATED
REQD	REQUIRED
RTU	ROOFTOP UNIT
SOG	SLAB-ON-GRADE
SS	STAINLESS STEEL
TYP	TYPICAL
VERT	VERTICAL
V.I.F.	VERIFY IN FIELD
WF	WIDE FLANGE
WHS	WELDED HEADED STUDS

DESIGN CRITERIA

1. GOVERNING BUILDING CODE: 2021 INTERNATIONAL BUILDING CODE WITH UFC 3-301-01
2. LIVE LOADS
   A. FLOOR LIVE LOADS:
      a. PUBLIC AND EXIT FLOORS 100 PSF
      b. MECHANICAL EQUIPMENT ROOM 100 PSF
3. SNOW
   A. GROUND SNOW LOAD: P_g = 25 PSF
   B. FLAT-ROOF SNOW LOAD: P_f = 25 PSF
   C. SNOW EXPOSURE FACTOR: C_e = 1.0
   D. SNOW LOAD IMPORTANCE FACTOR: I_s = 1.0
   E. THERMAL FACTOR: C_t = 1.0
   F. SNOW BUILD-UP: ASCE 7
4. WIND
   A. ULTIMATE DESIGN WIND SPEED: V_{ult} = 124 MPH
   B. NOMINAL DESIGN WIND SPEED: V_{asd} = 96 MPH
   C. RISK CATEGORY: IV
   D. WIND EXPOSURE: C
   E. INTERNAL PRESSURE COEFFICIENT: GC_{pi} = +/- 0.18
   F. EXTERIOR COMPONENT AND CLADDING DESIGN WIND PRESSURES:

COMPONENT AND CLADDING NET DESIGN PRESSURES	
WINDWARD WALLS	18.8 PSF (ULT), 11.3 PSF (ASD)
LEEWARD WALLS	-25.1 PSF (ULT), -15.0 PSF (ASD) WITHIN 10% OF BUILDING CORNER -20.3 PSF (ULT), -12.2 PSF (ASD) EVERYWHERE ELSE

NOTES:
a. POSITIVE SIGNS SIGNIFY PRESSURE ACTING TOWARD THE EXTERIOR SURFACE
b. NEGATIVE SIGNS SIGNIFY PRESSURES ACTING FROM THE EXTERIOR SURFACE
c. PRESSURES SHOWN ARE CALCULATED FOR A 10 SF EFFECTIVE AREA. PRESSURES MAY BE REDUCED FOR ELEMENTS WITH LARGER EFFECTIVE AREAS, PER ASCE 7.

5. SEISMIC
A. SEISMIC IMPORTANCE FACTOR I_e = 1.0
B. RISK CATEGORY: IV
C. MAPPED SPECTRAL RESPONSE ACCELERATIONS: S_S = 0.122 g S_1 = 0.039 g
D. SITE CLASS: D
E. DESIGN SPECTRAL RESPONSE COEFFICIENTS: S_{DS} = 0.131 g S_{D1} = 0.063 g
F. SEISMIC DESIGN CATEGORY: A

GENERAL

1. THESE STRUCTURAL NOTES ARE A SUPPLEMENT TO THE SPECIFICATIONS.
2. SPECIFICATIONS AND CODES REFERENCED IN THESE NOTES ARE THE VERSIONS MOST RECENTLY ADOPTED BY THE PERMITTING AUTHORITY.
3. VERIFY DIMENSIONS AND CONDITIONS WITH THE ARCHITECTURAL DRAWINGS. FIELD VERIFY DIMENSIONS AND ELEVATIONS RELATIVE TO THE EXISTING STRUCTURE PRIOR TO FABRICATION OF MATERIALS.
4. FOR FEATURES OF CONSTRUCTION NOT FULLY SHOWN, PROVIDE THE SAME TYPE AND CHARACTER AS SHOWN FOR SIMILAR CONDITIONS, SUBJECT TO REVIEW BY THE ARCHITECT AND ENGINEER OF RECORD.
5. APPLY, PLACE, ERECT OR INSTALL ALL PRODUCTS AND MATERIALS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
6. ADEQUATELY BRACE STRUCTURE AND ALL STRUCTURAL COMPONENTS AGAINST WIND, LATERAL EARTH AND SEISMIC FORCES UNTIL THE PERMANENT LATERAL-FORCE RESISTING SYSTEMS HAVE BEEN INSTALLED.
7. SUBMITTALS:
   A. SUBMIT SHOP DRAWINGS FOR:
      a. STRUCTURAL STEEL
      b. REINFORCING STEEL
   B. SUBMIT SHOP DRAWINGS AT LEAST 3 WEEKS PRIOR TO BEGINNING FABRICATION.
   C. GENERAL CONTRACTOR TO REVIEW SUBMITTALS BEFORE TRANSMITTING TO EOR, AND PLACE THEIR REVIEW STAMP, DATE, AND MARKS ON ALL COPIES.

SITE PREPARATION

1. REMOVE VEGETATION, RUBBISH AND EXISTING FILL WITHIN BUILDING FOOTPRINT AND 5'-0" (MINIMUM) BEYOND THE FOOTPRINT. STRIP TOP SOIL 6", MINIMUM.
2. PRE-ROLL AREA WITHIN BUILDING FOOTPRINT AND 5'-0" (MINIMUM) BEYOND THE FOOTPRINT WITH A HEAVY VIBRATORY ROLLER OR LOADED DUMP TRUCK. MAKE 3 PASSES (MINIMUM) OVER THE ENTIRE AREA.
3. REMOVE AREAS OF SOIL, AS REQUIRED, THAT EXHIBIT EXCESSIVE WEAVING OR DEFLECTION UNDER THE WEIGHT OF THE ROLLER OR DUMP TRUCK.
4. BACK-FILL EXCAVATED AREAS WITH STRUCTURAL FILL AS DESCRIBED BELOW.

STRUCTURAL FILL OR BACK-FILL

1. STRUCTURAL FILL MATERIAL:
   A. SAND AND GRAVEL MIXTURE OR CRUSHED ROCK.
   B. WELL GRADED FROM COARSE-TO-FINE WITH LESS THAN 10% BY WEIGHT OF THE MINUS 3/4" FRACTION PASSING THE NO. 200 SIEVE.
   C. FREE OF ORGANICS, RUBBISH, CLAY BALLS AND ROCKS LARGER THAN 4".
2. PLACE STRUCTURAL FILL IN LOOSE LIFTS, MAXIMUM OF 8" IN THICKNESS.
3. COMPACT STRUCTURAL FILL TO A MINIMUM DENSITY OF 95% OF MAXIMUM DRY DENSITY, AS DETERMINED BY ASTM D 1557.
4. VERIFY ADEQUACY OF STRUCTURAL FILL COMPACTION WITH RANDOM FIELD DENSITY TESTS IN ACCORDANCE WITH REQUIREMENTS OF "STRUCTURAL TESTS AND SPECIAL INSPECTIONS", IBC CHAPTER 17.
5. COMPACT STRUCTURAL FILL WITHIN 5'-0" OF RETAINING OR BASEMENT WALLS WITH LIGHT-WEIGHT, HAND-HELD EQUIPMENT. EXERCISE CARE TO AVOID DAMAGE TO WALLS.

FOUNDATIONS

1. FOUNDATION SIZES BASED ON AN ALLOWABLE SOIL BEARING PRESSURE OF 1,500 PSF DEAD AND LIVE/SNOW LOADS.
2. PLACE FOOTINGS ON FIRM, UNDISTURBED ORIGINAL SOIL, OR ON STRUCTURAL FILL. SEE "STRUCTURAL FILL OR BACK-FILL" NOTES FOR STRUCTURAL FILL INFORMATION.
3. PRIOR TO PLACEMENT OF CONCRETE, REMOVE ALL DISTURBED SOIL FROM FOOTING EXCAVATION TO NEAT LINES.
4. STEP BOTTOM OF FOOTINGS FROM ELEVATION TO ELEVATION AT A RATIO OF 1 VERTICAL TO 2 HORIZONTAL, WITH A MAXIMUM VERTICAL STEP OF 2'-0".

POST-INSTALLED ANCHORS

1. THE FOLLOWING PRODUCTS SHALL BE INSTALLED PER THE REQUIREMENTS OF THE REFERENCED PRODUCT APPROVALS SHOWN BELOW, UNLESS NOTED OTHERWISE.
2. NO SUBSTITUTIONS SHALL BE PERMITTED FOR POST-INSTALLED ANCHORS SHOWN ON THE CONSTRUCTION DOCUMENTS WITHOUT PRIOR APPROVAL BY THE ENGINEER OF RECORD. SUBSTITUTION REQUESTS SHALL BE ACCOMPANIED BY CALCULATIONS PREPARED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT OCCURS DEMONSTRATING THAT THE PROPOSED ANCHORS HAVE PERFORMANCE VALUES WHICH MEET OR EXCEED THOSE SHOWN ON THE DRAWINGS.
3. SCREW ANCHOR: DEWALT SCREW-BOLT + INSTALLED IN ACCORDANCE WITH ICC-ES ESR-3889
4. ADHESIVE ANCHOR: HILTI HIT-HY 200 V3 INSTALLED IN ACCORDANCE WITH ICC-ES ESR-4868

STRUCTURAL STEEL

1. ALL STRUCTURAL STEEL TO BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AISC STANDARDS.
2. MATERIAL:
   A. M, MT, S, ST, HP, C, MC AND L SHAPES: ASTM A36; F/Y = 36 KSI.
   B. STEEL PLATES: ASTM A36; F/Y = 36 KSI.
3. ANCHOR RODS TO BE ASTM 1554, GRADE 36 UNLESS NOTED OTHERWISE.
   A. PROVIDE WITH STANDARD WASHERS AND NUTS.
   B. GALVANIZE RODS (WHERE NOTED ON DRAWINGS) ACCORDING TO ASTM A153, CLASS C. OVER-TAP NUTS TO CLASS 2A FIT BEFORE GALVANIZING, ACCORDING TO ASTM A563.
4. PROVIDE BEVELED WASHERS AT BOLT HEADS OR NUTS BEARING ON SLOPING SURFACES.
5. CONTRACTOR TO DESIGN AND PROVIDE ERECTION AIDS (BOLTS, CLIPS, SHIMS, SEATS, ETC.) REQUIRED TO FACILITATE CONSTRUCTION.
6. INSTALL AND INSPECT HEADED STUDS AND SHEAR CONNECTORS ACCORDING TO CHAPTER 7 OF AWS D1.1 "STRUCTURAL WELDING CODE-STEEL".

CONCRETE REINFORCING STEEL

1. REINFORCING STEEL SHALL BE ASTM A 615, GRADE 60.
2. DETAIL, FABRICATE AND PLACE REINFORCING ACCORDING TO ACI 315, DETAILS AND DETAILING OF CONCRETE REINFORCEMENT.
3. TYPICAL REINFORCING (MINIMUM, UNLESS NOTED OTHERWISE ON DRAWINGS):
   A. CORNERS AND INTERSECTIONS OF WALLS AND FOUNDATIONS, PRE-CAST PANEL CORNERS: CORNER BARS EQUAL IN SIZE AND NUMBER TO HORIZONTAL REINFORCING. LEG LENGTH: 48 BAR DIAMETER (2'-0" MINIMUM).
4. DO NOT FIELD BEND, DISPLACE, WELD, HEAT OR CUT REINFORCING UNLESS INDICATED ON THE DRAWINGS, OR APPROVED BY STRUCTURAL ENGINEER OF RECORD.
5. MINIMUM COVER FROM CONCRETE SURFACES TO REINFORCING:
   3" TO BOTTOM OF FOOTING
   2" ± 1/4" TO EARTH FACE OF WALL
   1" ± 1/4" TO INSIDE FACE OF WALL
   3/4" ± SLAB TO TOP AND BOTTOM SURFACES
   CENTER OF SLABS-ON-GRADE
6. REINFORCING LAP SPLICES (INCHES): CONFORM WITH ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", AS SHOWN BELOW, UNLESS NOTED OTHERWISE ON DRAWINGS:

	3000 PSI		4000 PSI	
BAR SIZE	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS
#3	28	22	24	19
#4	37	29	32	25
#5	47	36	40	31
#6	56	43	48	37

LAP SPLICE NOTES:
A. TOP BARS ARE DEFINED AS HORIZONTAL BARS PLACED SUCH THAT MORE THAN 12" OF CONCRETE IS PLACED BELOW THE BARS.
B. SPLICE LENGTH BASIS: CLASS B, CASE 1 SPLICE, WITH CENTER-TO-CENTER BAR SPACING OF GREATER THAN 3 BAR DIAMETERS.

CAST-IN-PLACE CONCRETE

1. ALL CONCRETE MATERIALS, FORM WORK, MIXING, PLACING AND CURING SHALL BE IN ACCORDANCE WITH:
   A. ACI 301 "STANDARD SPECIFICATION FOR STRUCTURAL CONCRETE".
   B. ACI 305 "RECOMMENDED PRACTICE FOR HOT WEATHER CONCRETING" AND
   C. ACI 306 "RECOMMENDED PRACTICE FOR COLD WEATHER CONCRETING."
2. CONCRETE MIX DESIGN:
   UNLESS NOTED OTHERWISE, ALL CONCRETE STRENGTH SHALL BE:
   3,000 PSI FOR: FOOTINGS
   3,000 PSI FOR: EXTERIOR SLABS-ON-GRADE
   4,000 PSI FOR: INTERIOR SLABS-ON-GRADE (MAXIMUM WATER/CEMENT RATIO = 0.40; MINIMUM COARSE AGGREGATE SIZE = 1")
   3,000 PSI FOR: OTHER CONCRETE
   NOTES:
   A. UNLESS NOTED OTHERWISE, CONCRETE STRENGTH SHALL BE OBTAINED AT A MINIMUM OF 28 DAYS AFTER PLACING AS DETERMINED BY LABORATORY-CURED CONCRETE CYLINDER TESTS.
   B. NO WATER SHALL BE ADDED TO THE CONCRETE OTHER THAN THAT REQUIRED BY THE MIX DESIGN APPROVED BY THE ENGINEER OF RECORD. WATER ADDED AFTER INITIAL CONCRETE BATCHING SHALL BE SPECIAL INSPECTED.
   C. PREPARE MIX DESIGNS FOR EACH TYPE OF CONCRETE BY EITHER LABORATORY TRIAL BATCH OR FIELD EXPERIENCE METHODS AS SPECIFIED IN ACI 301.
   D. USE PORTLAND CEMENT TYPE I OR II; CONFORM WITH ASTM C 150; SUPPLY FROM 1 SOURCE.
   E. AGGREGATES SHALL CONFORM WITH ASTM C 33 AND BE THOROUGHLY CLEANED AND WASHED PRIOR TO USE.
   F. REPLACE UP TO 20% OF CEMENT WITH FLY ASH. FLY ASH SHALL CONFORM WITH ASTM C 618, CLASS C OR F. CONCRETE MIX STRENGTH TEST DATA SHALL BE PROVIDED.
   G. CONCRETE EXPOSED TO WEATHER SHALL HAVE 5% ± 1% ENTRAINED AIR, BY VOLUME, AND SHALL CONFORM WITH ASTM C 260.
   H. SLABS-ON-GRADE SHALL UTILIZE SUPER PLASTICIZERS.
3. CONCRETE MIX PROPORTIONS:
   A. PROPORTION ACCORDING TO ACI 318, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE".
   B. SUBMIT MIX DESIGNS, WITH COMPLETE STATISTICAL BACKUP, FOR REVIEW.
4. SAMPLING AND TESTING OF CONCRETE:
   A. CONCRETE COMPRESSIVE STRENGTH OF LABORATORY CURED CYLINDERS SHALL BE TESTED AFTER THE SPECIFIED PERIOD AT 28 DAYS OR 56 DAYS AS NOTED.
   B. SAMPLE, CURE AND TEST CONCRETE CYLINDERS ACCORDING TO APPLICABLE ASTM SPECIFICATIONS.
   C. ACCEPTANCE OF COMPRESSIVE STRENGTH TEST RESULTS SHALL BE GOVERNED BY ACI 318, CHAPTER 5.
   D. TEST A MINIMUM OF 3 CONCRETE TEST CYLINDERS FOR EACH 150 CU. YARDS OF CONCRETE, NOT LESS THAN ONE FOR EACH 5,000 SQUARE FEET OF SURFACE AREA FOR SLABS AND WALLS, OR EACH DAY OF POUR, FOR EACH CONCRETE STRENGTH. TEST 1 CYLINDER AT 7 DAYS AND 2 CYLINDERS AT 28 DAYS.
   E. CAST 1 ADDITIONAL CYLINDER FOR STRENGTH VERIFICATION, IF PROBLEMS HAVE DEVELOPED FROM PREVIOUS 28 DAY BREAKS.
5. JOINTS:
   A. CONSTRUCTION JOINTS BETWEEN FOOTINGS AND WALLS, COLUMNS OR PILASTERS AND THE SLABS THEY SUPPORT AND WALL CONSTRUCTION JOINTS: ROUGHEN CONTACT AREA TO AN APPROXIMATE 1/4" AMPLITUDE, LEAVING THE CONTACT SURFACE CLEAN AND FREE OF LAITANCE.
   B. CONSTRUCTION JOINTS KEYWAYS: PROVIDE WHERE SHOWN ON DRAWINGS.
   C. SUBMIT LOCATIONS AND DETAILS OF PROPOSED CONSTRUCTION JOINTS NOT DETAILED ON THE DRAWINGS FOR REVIEW.
6. CHAMFER EXPOSED CORNERS 3/4", UNLESS NOTED OTHERWISE.

FRAMING LUMBER

1. LUMBER SPECIES: DOUGLAS FIR-LARCH OR HEMLOCK-FIR, GRADE LUMBER ACCORDING TO RULES OF WEST COAST LUMBER INSPECTION BUREAU (WCLIB).
2. LUMBER GRADES:

SIZE CLASSIFICATION	GRADE
A. EXTERIOR WALL STUDS	NO. 2
B. INTERIOR NON-BEARING WALL STUDS	STANDARD OR BETTER OR STUD GRADE
C. JOISTS	NO. 2
D. BEAMS	NO. 1
E. BLOCKING, PLATES, BRIDGING	STANDARD OR BETTER OR STUD GRADE

3. MAXIMUM MOISTURE CONTENT: 19% AT 3x OR LESS (LEAST DIMENSIONS) MEMBERS.
4. PROVIDE SOLID BLOCKING (SAME DEPTH OF MEMBER) AT ALL POINTS OF BEARING (MAXIMUM SPACING OF 8'-0" O.C.) AT JOISTS WITH A 5:1 OR GREATER DEPTH-TO-THICKNESS RATIO OR WHERE 1 EDGE OF JOIST IS NOT ATTACHED TO SHEATHING, WALLBOARD, BRACING, ETC.
5. PLATES AND LEDGERS
A. PLATES AND LEDGERS USED IN INTERIOR CONDITIONS (LUMBER AND FASTENERS ARE INSIDE OR CONCEALED BY MOISTURE BARRIER, ROOFING, ETC.) AND IN CONTACT WITH CONCRETE OR MASONRY ARE TO BE ZINC BORATE OR SBX/DOT PRESERVATIVE TREATED WOOD. FASTENERS, PLATES AND NUTS IN CONTACT WITH TREATED WOOD TO BE PLAIN CARBON.
B. PLATES AND LEDGERS USED FOR EXTERIOR CONDITIONS (EXPOSED TO EXTERIOR ENVIRONMENT IN ANY CIRCUMSTANCE) TO BE PRESSURE TREATED. FASTENERS, PLATES, NUTS, HANGER CLIPS, ETC. ARE TO BE HOT DIPPED GALVANIZED WITH A MINIMUM COATING WEIGHT OF 2.0 OZ PER SQUARE FOOT. NAILS ARE TO BE DOUBLE HOT DIPPED GALVANIZED.
6. SEE SCHEDULE AND DRAWINGS FOR NAILING.

WOOD STRUCTURAL PANELS

1. PLYWOOD MATERIAL:
   A. GRADE: C-D, UNLESS NOTED OTHERWISE.
   B. SHALL BE MANUFACTURED WITH EXTERIOR GLUE ACCORDING TO UNITED STATES PRODUCT STANDARD PS1-09.
   C. SHALL BEAR THE AMERICAN PLYWOOD ASSOCIATION (APA) TRADEMARK.
2. ORIENTED STRAND BOARD (OSB) MATERIAL:
   A. SHALL CONFORM WITH APA PERFORMANCE STANDARDS FOR WOOD BASED STRUCTURAL USE PANELS PRP-108 AND UNITED STATES PRODUCT STANDARD PS2-10.
   B. SHALL BE MANUFACTURED WITH EXTERIOR GLUE.
   C. SHALL BEAR THE APA TRADEMARK.
3. NAILS IN CONTACT WITH PRESSURE-TREATED PANELS SHALL BE DOUBLE HOT DIPPED GALVANIZED, EXCEPT WHEN IN CONTACT WITH ZINC BORATE OR SBX/DOT TREATMENT.
4. PROVIDE PRESSURE-TREATED PANELS WHERE INDICATED ON DRAWINGS. CONFORM WITH AWPA STANDARD C-9. MARK SHEETS WITH AWPB.
5. SHEATHING TYPES:
   A. ROOF SHEATHING 5/8" INDEX 40/20
   B. WALLS 1/2" INDEX 24/0
6. PANEL LAYOUT AND INSTALLATION:
   A. LAY OUT PANELS WITH END JOINTS STAGGERED, UNLESS NOTED OTHERWISE.
   B. LAY OUT PANELS TO ELIMINATE WIDTHS LESS THAN 1'-0" AT ROOFS, OR LESS THAN 2'-0" AT FLOORS, UNLESS ALL EDGES OF UNDERSIZED PIECES ARE SUPPORTED BY BLOCKING.
   C. PROVIDE PANEL SPACING ACCORDING TO APA RECOMMENDATIONS.
   D. BLOCK SHEAR WALL PANELS WITH 2 x 4 FLAT BLOCKING (MINIMUM) AT ALL EDGES NOT SUPPORTED BY FRAMING MEMBERS.
   E. NAIL ACCORDING TO SCHEDULE AND DRAWINGS.
7. PROTECT ROOF PANELS FROM EXTREME WET CONDITIONS.

Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP

COLLIN N. BOYD — STATE OF WASHINGTON — 19110836 — REGISTERED PROFESSIONAL ENGINEER
11/05/2024
Exp. 08/02/2026

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE: STRUCTURAL NOTES

PHASE: 100% CONSTRUCTION DOCUMENTS

PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES

PROJECT NUMBER: 568-21-701

BUILDING NUMBER:

APPROVED:

FOR OFFICIAL USE ONLY (FOUO)

FLS: FULLY SPRINKLERED

LOCATION: FORT MEADE, SOUTH DAKOTA

ISSUE DATE: 11/05/2024 | CHECKED BY: CNB | DRAWN BY: LCG

DRAWING NUMBER: SN001

VA FORM 08 - 6231

NAILING AND CONNECTION SCHEDULE

1. MINIMUM NUMBER OF NAILS FOR WOOD MEMBERS, UNLESS NOTED OTHERWISE ON DRAWINGS.
2. NAILS IN CONTACT WITH PRESSURE-TREATED LUMBER SHALL BE DOUBLE HOT DIPPED GALVANIZED EXCEPT WHEN IN CONTACT WITH ZINC BORATE OR SBX/DOT PRESERVATIVE TREATMENT.
3. NAIL TYPE: BOX OR SINKER, UNLESS NOTED OTHERWISE ON DRAWINGS.

CONNECTION	NAILS
STUDS TO PLATES - END NAIL	(2) 16d COMMON OR (3) 10d
OR STUDS TO PLATES - TOE NAIL	(4) 10d
TOP PLATES & BOTTOM PLATES	
- SPIKE TOGETHER	10d AT 8" OC
- LAP AND INTERSECTIONS	(4) 10d EACH SIDE JOINT
FLOOR, ROOF, CEILING JOISTS	
- TO PLATES OR BEAMS - TOE NAIL	(2) 10d
BLOCKING TO PLATE - TOE NAIL	(2) 10d
BLOCKING TO JOISTS - EACH END	(2) 10d
CORNER STUDS	10d AT 12" OC
2x LAMINATED BEAMS	10d AT 12" 2 ROWS STAGGERED

PLYWOOD SHEATHING CONNECTIONS

1. ALL NAILS SHALL BE COMMON, UNLESS NOTED OTHERWISE
2. NAILS IN CONTACT WITH PRESSURE-TREATED PLYWOOD SHALL BE DOUBLE HOT DIPPED GALVANIZED, EXCEPT WHEN IN CONTACT WITH ZINC BORATE OR SBX/DOT PRESERVATIVE TREATMENT.
3. ROOF SHEATHING
   A. NAILING:
      AT EDGES OF EACH SHEET, BLOCKING & WALLS — 10d AT 6" OC
      AT INTERIOR OF SHEETS — 10d AT 10" OC
      AT BOUNDARIES OF ROOF — 10d AT 6" OC
4. WALL SHEATHING
   A. BLOCK ALL EDGES NOT SUPPORTED BY FRAMING MEMBERS WITH 2 x 4 FLATS, MIN. (LARGER BLOCKING MAY BE REQUIRED AT SOME LOCATIONS; SEE SHEAR WALL SCHEDULE AND NOTES.)
   B. NAILING:
      AT EDGES OF EACH SHEET TO STUDS, BLOCKING & PLATES — 10d AT 6" OC
      AT INTERIOR OF EACH SHEET — 10d AT 12" OC
      AT BOUNDARIES OF WALL — 10d AT 6" OC

OTHER WOOD CONNECTIONS

1. FRAMING CONNECTORS: SIMPSON STRONG-TIE OR APPROVED.
   A. FILL ALL NAIL HOLES WITH NAILS AS SPECIFIED BY THE CONNECTOR MANUFACTURER, UNLESS NOTED OTHERWISE.
   B. CONNECTORS IN CONTACT WITH PRESSURE-TREATED LUMBER SHALL BE HOT DIPPED GALVANIZED (2.0 OZ / SQUARE FOOT COATING), EXCEPT WHEN IN CONTACT WITH ZINC BORATE OF SBX/DOT PRESERVATIVE TREATMENT.
   C. HANGERS TO DEVELOP BENDING STRENGTH OF MEMBERS, UNLESS NOTED OTHERWISE ON DRAWINGS.
2. ANCHOR BOLTS: ASTM A307 OR ASTM A36.
3. ANCHOR BOLTS, LAG BOLTS, EXPANSION ANCHORS, PLATE WASHERS AND THREADED RODS IN CONTACT WITH PRESSURE- TREATED LUMBER SHALL BE HOT DIPPED GALVANIZED (2.0 OZ / SQUARE FOOT COATING), EXCEPT WHEN IN CONTACT WITH ZINC BORATE OR SBX/DOT PRESERVATIVE TREATMENT.
4. PROVIDE STANDARD PLATE WASHERS UNDER HEADS OR NUTS OF BOLTS BEARING ON WOOD.
5. ANCHOR ALL PLATES AND LEDGERS WITH A MINIMUM OF 3 ANCHORS PER PIECE.

SPECIAL INSPECTION PROGRAM

INSPECTION TASK / TYPE OF WORK	DURATION	COMMENTS
OTHER		
POST-INSTALLED ANCHORS IN CONCRETE AND MASONRY		PER ICC/ICBO EVALUATION REPORTS

SPECIAL INSPECTION PROGRAM NOTES:

1. THE DURATION COLUMNS REPRESENTS THE TIME AND FREQUENCY OF INSPECTION FOR THE PORTIONS OF WORK INDICATED.
   P = PERIODIC INSPECTION IN WHICH THE SPECIAL INSPECTOR IS ON SITE AT THE TIME INTERVALS NECESSARY TO CONFIRM THAT THE WORK REQUIRING SPECIAL INSPECTION IS IN CONFORMANCE WITH THE APPROVED PERMIT DRAWINGS AND SPECIFICATIONS.
   C = CONTINUOUS INSPECTION IN WHICH THE SPECIAL INSPECTOR IS ON SITE AT ALL TIMES, OBSERVING THE WORK REQUIRING SPECIAL INSPECTION TO CONFIRM THAT THE WORK IN IN CONFORMANCE WITH THE APPROVED PERMIT DRAWINGS AND SPECIFICATIONS.
2. PROVIDE SPECIAL INSPECTION, SPECIAL TESTING, REPORTING AND COMPLIANCE PROCEDURES ACCORDING TO CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE.
3. SPECIAL INSPECTOR QUALIFICATIONS: DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION IN QUESTION.
4. PRIOR TO THE BEGINNING OF CONSTRUCTION, REVIEW THE SPECIAL INSPECTION REQUIREMENTS WITH THE ARCHITECT, ENGINEER, BUILDING OFFICIAL, GENERAL CONTRACTOR AND SPECIAL INSPECTORS.
5. DUTIES OF THE SPECIAL INSPECTOR INCLUIDE, BUT ARE NOT LIMITED TO:
   A. OBSERVE THE WORK FOR CONFORMANCE WITH THE APPROVED PERMIT DRAWINGS AND SPECIFICATIONS. BRING DISCREPANCIES TO THE IMMEDIATE ATTENTION OF THE GENERAL CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED, TO THE ENGINEER AND TO THE BUILDING OFFICIAL.
   B. FURNISH INSPECTION REPORTS FOR EACH INSPECTION TO THE BUILDING OFFICIAL, ARCHITECT, ENGINEER, AND GENERAL CONTRACTOR IN A TIMELY MANNER.
   C. SUBMIT A FINAL REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS INSPECTED, AND WHETHER THE WORK IS IN GENERAL CONFORMANCE WITH THE APPROVED PERMIT DRAWINGS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE INTERNATIONAL BUILDING CODE.
6. DUTIES OF THE CONTRACTOR INCLUDE, BUT ARE NOT LIMITED TO:
   A. NOTIFY THE SPECIAL INSPECTOR THAT WORK IS READY FOR INSPECTION AT LEAST 24 HOURS BEFORE SUCH INSPECTION.
   B. MAINTAIN ACCESS TO WORK REQUIRING SPECIAL INSPECTION UNTIL IT HAS BEEN OBSERVED AND INDICATED TO BE IN CONFORMANCE BY THE SPECIAL INSPECTOR AND APPROVED BY THE BUILDING OFFICIAL.
   C. PROVIDE THE SPECIAL INSPECTOR WITH ACCESS TO APPROVED PERMIT DRAWINGS AND SPECIFICATIONS AT THE JOB SITE.
   D. MAINTAIN AT THE JOB SITE, COPIES OF ALL REPORTS SUBMITTED BY THE SPECIAL INSPECTOR.

Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS · ENGINEERS

STAMP

11/05/2024

COLLIN N. BUNAT — STATE OF WASHINGTON — 24010630 — REGISTERED PROFESSIONAL ENGINEER

Exp. 08/02/2026

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE: STRUCTURAL NOTES
PHASE: 100% CONSTRUCTION DOCUMENTS
PROJECT TITLE: EHRM INFRASTRUCTURE UPGRADES
PROJECT NUMBER: 568-21-701
BUILDING NUMBER:
APPROVED:
FLS: FULLY SPRINKLERED
LOCATION: FORT MEADE, SOUTH DAKOTA
ISSUE DATE: 11/05/2024
CHECKED BY: CNB
DRAWN BY: LCG
DRAWING NUMBER: SN002

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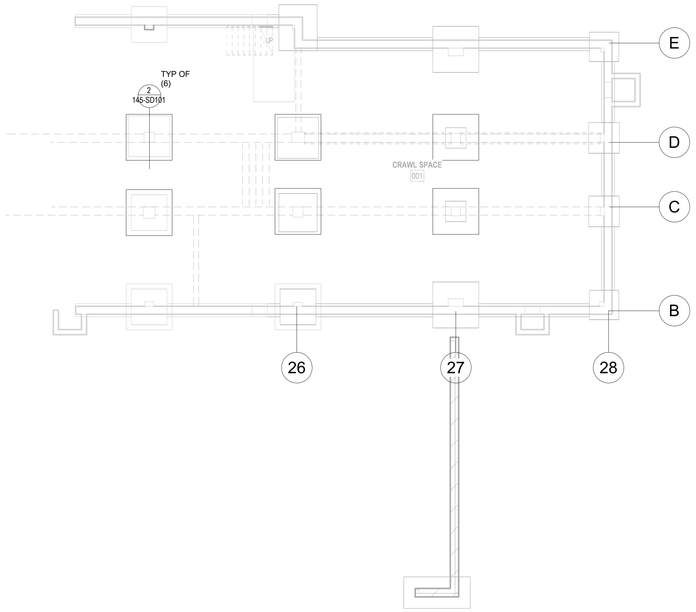
VA FORM 08 - 6231

STRUCTURAL NOTES:

1. REFER TO SHEET SN001 FOR STRUCTURAL NOTES.
2. CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO FABRICATION OF MATERIALS.



A 145-SF101 FOUNDATION PLAN
1/8"=1'-0"

Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP

COLLIN N. BURNETT — STATE OF WASHINGTON — 19110836 — REGISTERED PROFESSIONAL ENGINEER
11/05/2024
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VA U.S. Department of Veterans Affairs

DRAWING TITLE: FOUNDATION PLAN
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PROJECT NUMBER: 568-21-701
BUILDING NUMBER: 145
APPROVED:
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FLS: FULLY SPRINKLERED
LOCATION: FORT MEADE, SOUTH DAKOTA
ISSUE DATE: 11/05/2024
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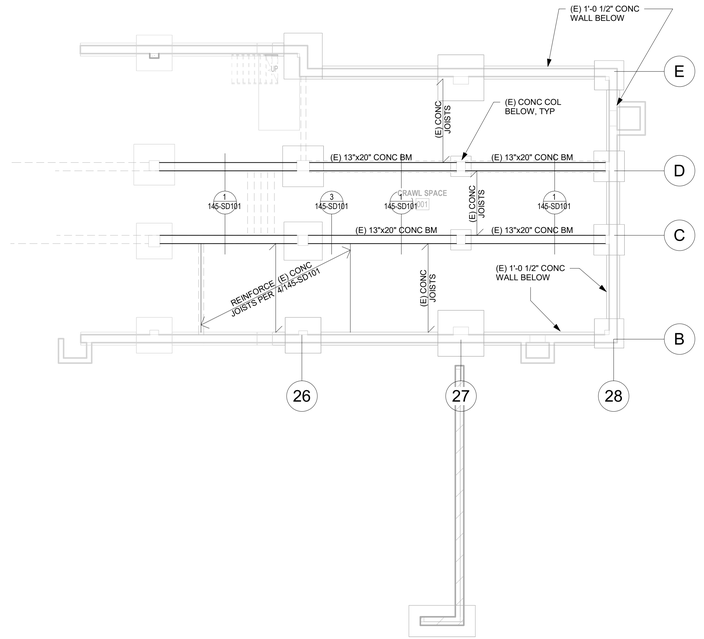
DRAWN BY: LCG
DRAWING NUMBER: 145-SF101

VA FORM 08 - 6231

STRUCTURAL NOTES:

1. REFER TO SHEET SN001 FOR STRUCTURAL NOTES.
2. CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO FABRICATION OF MATERIALS.



A 145-SF102 FIRST FLOOR FRAMING PLAN 1/8"=1'-0"

Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP

COLLIN N. BUNDY — STATE OF WASHINGTON — 19110836 — REGISTERED PROFESSIONAL ENGINEER
11/05/2024
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VA U.S. Department of Veterans Affairs

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			BUILDING NUMBER: 145
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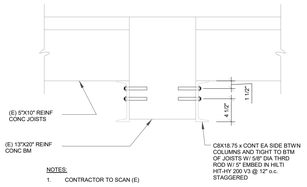
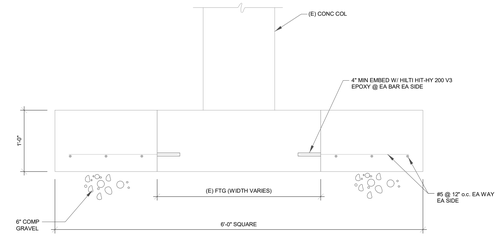
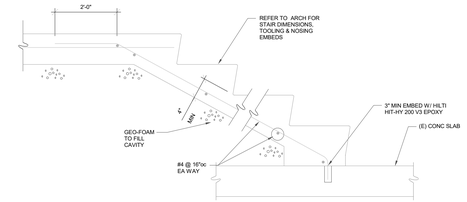


NOTES:
1. CONTRACTOR TO SCAN (E) CONC BM AS NEEDED TO VERIFY (E) REINFORCING IS NOT CUT DURING DRILLING.
2. CHANNELS MAY TERMINATE AT FACE OF COLUMNS.

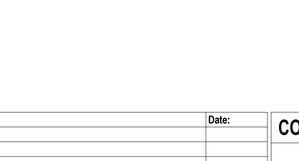
1 M5-SD101 SECTION 1"=1'-0"



2 M5-SD101 SECTION 1"=1'-0"



3 M5-SD101 SECTION 1"=1'-0"



NOTES:
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2. CHANNELS MAY TERMINATE AT FACE OF BEAMS.

4 M5-SD101 SECTION 1"=1'-0"

Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

A/E
GDM
1308 NE 134TH ST SUITE A
VANCOUVER, WA 98685
541.436.4723
ADAM GODDIN, PE

GDM ARCHITECTS • ENGINEERS

STAMP

11/05/2024
COLLIN N. BERRY
STATE OF WASHINGTON
19110836
REGISTERED PROFESSIONAL ENGINEER
Exp. 08/02/2026

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

VA U.S. Department of Veterans Affairs

DRAWING TITLE: STRUCTURAL DETAILS
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FLS: FULLY SPRINKLERED
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