CTR

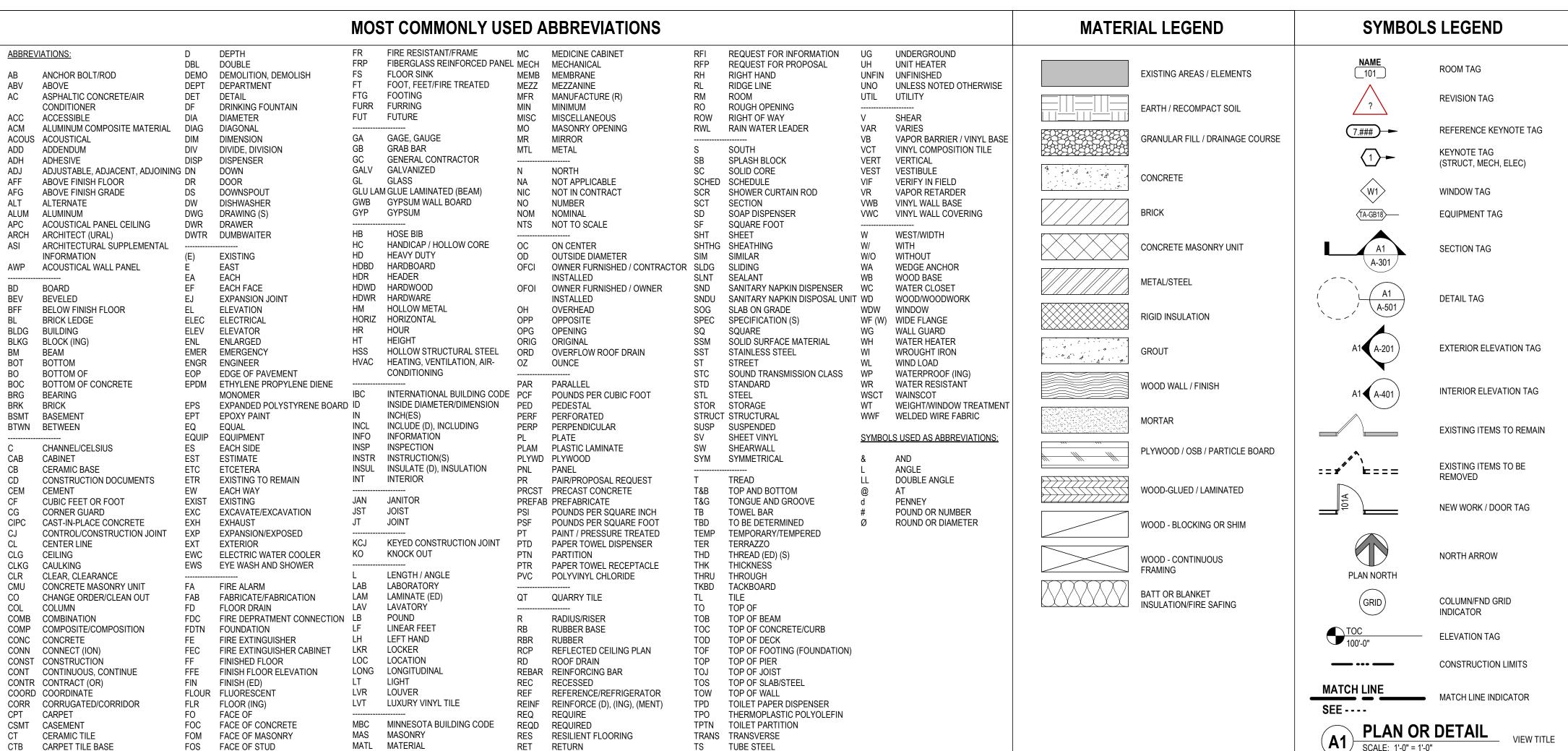
CENTER

FOF FACE OF FINISH

MAX MAXIMUM

SOUTH DAKOTA DEPARTMENT OF THE MILITARY RENOVATE GENERALS QUARTERS BUILDING 250

RC CAMP RAPID 100% CONSTRUCTION DOCUMENTS 08/31/2023



TYP TYPICAL

REVISION (S), REVISED

INDEX TO DRAWINGS

SHEET INDEX - GENERAL

SHEET INDEX - CIVIL

GRADING PLAN SITE PROFILES EROSION CONTROL PLAN

SHEET INDEX - STRUCTURAL

EXISTING FOUNDATION, FLOOR FRAMING, & ROOF FRAMING PLANS

FLOOR FRAMING PLAN

ROOF FRAMING PLAN

SHEET INDEX - ARCHITECTURAL

DEMOLITION FLOOR PLANS REFLECTED CEILING DEMOLITION PLAN FIRST LEVEL FLOOR PLAN LOWER LEVEL FLOOR PLAN FIRST LEVEL REFLECTED CEILING PLA

LOWER LEVEL REFLECTED CEILING PLAI FINISH FLOOR PLAN AND SCHEDULES

SHEET INDEX - MECHANICA

PLUMBING DEMOLITION PLANS PLUMBING PLANS - NEW CONSTRUCTION MECHANICAL DEMOLITION PLANS MECHANICAL HVAC PLANS - NEW CONSTRUCTION ENLARGED MECHANICAL PLANS MECHANICAL DETAILS

MECHANICAL SCHEDULES

SHEET INDEX - ELECTRICAL

ELECTRICAL SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES POWER AND TECHNOLOGY PLANS

ELECTRICAL RISER AND SCHEDULES

DESIGN TEAM

TITLE/DISCIPLINE NAME/CONTACT COMPANY PHONE PROJECT MANAGER CHRIS MAKS TSP, Inc. 605.343.6102 maksch@teamtsp.com BRAD MITZELFELT TSP, Inc. PROJECT ARCHITECT 605.343.6102 mitzelfeltbr@teamtsp.com CIVIL ENGINEER JASON PETTYJOHN FMG 605.342.4105 jpettyjohn@fmg engineering.com STRUCTURAL ENGINEER ALEX WEIERS 605.343.6102 weiersar@teamtsp.com INTERIOR DESIGNER 605.343.6102 phillipsmp@teamtsp.com MECHANICAL ENGINEER 605.343.6102 maksch@teamtsp.com ELECTRICAL ENGINEER JACOB FLECK TSP, Inc. 605.343.6102 fleckjj@teamtsp.com

LOCATION MAP



PROJECT LOCATION



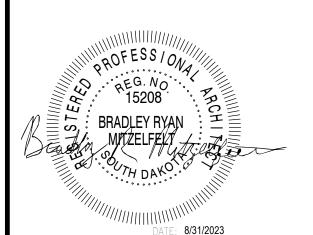


600 Kansas City St.

www.teamtsp.com

Architecture

CONSULTANTS





SOUTH DAKOTA DEPARTMENT OF THE MILITARY RENOVATE GENERALS QUARTERS BUILDING

RC CAMP RAPID

ISSUES

ISSUE	DATE	DESCRIPTION
ISSUE DATE		DRAWN BY
08/31/2023	3	BRM
PROJECT#		CHECKED BY
03221580		BRM

COVER SHEET

SHEET NUMBER

CONSTRUCTION DOC

Building/Dwelling Code International Building Code (IBC) 2021 w/ Amendments Structural Code IBC 2021 International Mechanical Code (IMC) 2021

2021 Uniform Plumbing Code Plumbing Code Electrical Code National Electrical Code (NEC) 2020 Accessibility Code ICC A117.1 per Chapter 11 of the IBC 2010 ADA Standards for Accessible Design

 Use and Occupancy:
 1.
 RESIDENTIAL GROUP (R-3)
 Boarding House (Transient, Less than 10 occupants)

 A sprinkler system is required.

b. Gross Square Footage: 1,788 sf Allowable Areas and Number of Stories: RESIDENTIAL GROUP (R-3) a. IBC Table 504.3

i. Allowable height 60 FT ii. Actual Less than 60 FT b. IBC Table 504.4 Allowable stories 4 ii. Actual 2 c. IBC Table 506.2 Allowable area Unlimited

ii. Actual 1,788 sf **Building Elements:** 1. Fire Resistive Requirements Type V-B IBC Table 601 a. Structural frame Bearing walls - Exterior Bearing walls – Interior Non-bearing walls – Exterior e. Non-bearing walls – Interior Floor

Fire Resistance Rated Construction: FIRE WALLS

IBC Sec. 706 a. Not required. FIRE BARRIERS. IBC Sec. 707 Not required. IBC Sec. 708 FIRE PARTITIONS

a. Sleeping units to be min 1/2 hour rated due to sprinkler system. Wall construction is 1 hour rated, but only 1/2 hour required. Ceilings also to be 1/2 hour rated.

G. Fire Protection Systems: IBC Ch. 9 Automatic Sprinkler System will be provided.

2. Portable Fire Extinguishers (2-A) provided per IBC 906.1 and located per 906.3.1 (within 75 ft). Manual fire alarm system will be provided per IBC 907.

 Floor Area per Occupant IBC Table 1004.5 a. Residential (R-3) 15 Persons 2. Egress Width. IBC Sec. 1005 a. Minimum Required Provided OL x .2 15 x .2 = 3" 204"

b. Minimum Stair Width 15 x .3 = 4.5" 36" OL x .3 a. Minimum Clear Width 32"

4. Common Path of Travel IBC Table 1006.2.1 a. R-3 125 ft (w/o sprinkler system) Egress from Spaces IBC Sec. 1006 a. One exit required per table 1006.2.1 as occupant load is less than 20

6. Exit Arrangement IBC Sec. 1007.1.1 a. The distance between Exits or Exit Access Doors is a minimum of 1/2 the length of the maximum overall diagonal dimension of the building. .7. Exit access travel distance IBC Table 1017 .2

a. R-3 250 FT with fire sprinkler system Corridors IBC Sec. 1020 Non-rated Width IBC Table 1020.2 36 inches minimum where serving occupant load < 50 Dead-End Not to exceed 20 feet in length.

Exterior Insulation Requirements: 1. Per ASHRAE, Rapid City is in Climate Zone 6. For Commercial projects, Building Envelope requirements are as follows: a. Entry Doors

.37U.

b. Opaque Doors Plumbing Fixture Count Requirements: Per IBC Table 2902.1:

M/F Lavs 1 Kitchen Sink and 1 W/D hookup 1 per 10/1 per 8 0 Req'd 15 Persons (3 Unisex) *Kitchen sink provided to fulfill drinking water requirements.

Per 2017 ICC A117.1 section 304.3.1.2, existing buildings only require an ADA turning radius of 60 inches.

Per 1107.1, Buildings and facilities shall be designed and constructed to be accessible in accordance with this IBC 2021 and ICC A117.1.

Per the IBC, 1 unit should be Type A, as outlined in 1003 of 2017 ICC A117.1.

THIS SHEET CONTAINS COLOR-CODED INFORMATION. THIS SHEET SHOULD BE PRINTED IN COLOR. TSP LOGO TO THE RIGHT SHOULD BE RED.

LIFE SAFETY LEGEND

NON RATED STUD WALL / / / 1 HOUR RATED FIRE PARTITION

FEC FIRE EXTINGUISHER CABINET

EGRESS WIDTH

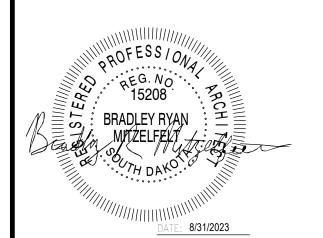


600 Kansas City St. Rapid City, SD 57701

> (605) 343-6102 www.teamtsp.com

> > Architecture Engineering

CONSULTANTS



SOUTH DAKOTA DEPARTMENT OF THE MILITARY RENOVATE GENERALS **QUARTERS BUILDING**

RC CAMP RAPID

ISSUES

ISSUE	DATE	DESCRIPTION	
ISSUE DATE 08/31/2023	1	DRAWN BY	- Z
PROJECT #	,	CHECKED BY	-
03221580		BRM	_
LIFE SA		PLAN	CONSTRUCTION DOCUMEN
SHEET NUMBER	G-1	01	00 %00

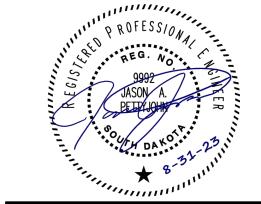




> (605) 343-6102 www.teamtsp.com

> > Architecture Engineering Planning



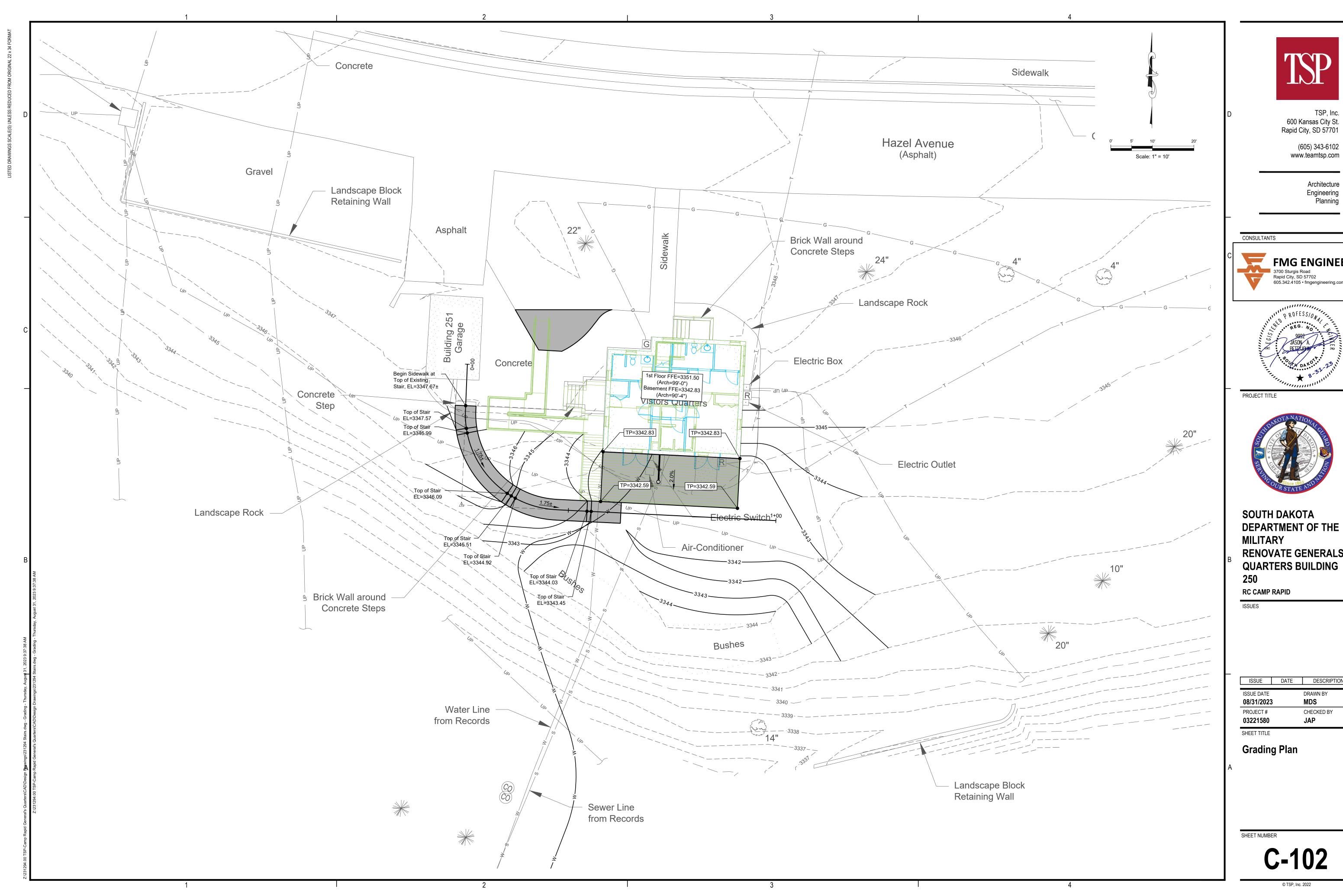




SOUTH DAKOTA **DEPARTMENT OF THE RENOVATE GENERALS QUARTERS BUILDING**

			(
ISSUE	DATE	DESCRIPTION	
ISSUE DATE		DRAWN BY	_
08/31/2023	}	MDS	Ш
PROJECT#		CHECKED BY	$ \geq$
03221580		JAP	
03221360		JAP	_ ご
SHEET TITLE			-

Site and Utility Plan





(605) 343-6102

Architecture Engineering Planning







DEPARTMENT OF THE RENOVATE GENERALS **QUARTERS BUILDING**

ISSUE	DATE	DESCRIPTION	
ISSUE DATE 08/31/2023		DRAWN BY MDS	N N
PROJECT # 03221580		CHECKED BY JAP	OCUME!
SHEET TITLE			- 0
Grading	g Plan		
			6
			E
			H
			CONSTRUCTION
SHEET NUMBE	ER		_0
)-1	02	0 %00

 Building Wall Main Level Fin. Flr.=3351.50 (Arch=99'-0") ■ Building Wall 0+10.00 Refer to Detail Sheet for Main Level Fin. Flr.=3351.50 (Arch=99'-0") 3347.67 Proposed Handrail Details Grade 0+15.48 3347.57 0+34.50 0+16.61 3346.09 Basement Fin. Flr.=3342.83 (Arch=90'-4") 3346.99 __0+35.62 Rigid Insulation -4" PVC 3345.51 0+36.74 3344.92 Proposed Sidewalk -Connect New 4" PVC Sewer Service to Existing Sewer Service with 4" Cleanout. Grade at CL 0+54.48 Basement Fin. Flr.=3342.83 (Arch=90'-4") CO#1— Existing — 3344.03 Foundation Contractor to Field Verify Location and 0+35.56 Grade Size/Type 0+55.48 Depth of Existing Sewer Service Prior to Rim=3342.70 Unknown 3343.45 Construction of New Sewer Service Stub. Inv In=3341.20 4" PVC (SW) Inv Out=3341.20 4" PVC (N) 0+56.48 Depth=1.5 3342.87 Foundation
Size/Type
Unknown 6' of 4" PVC Sewer Main @ 2.00%— Sidewalk and Stairs Profile 3335 Sewer Service Connection Detail | -0+20 0+00 ا 0+80 -0+20 1+00 ISSUES SHEET NUMBER

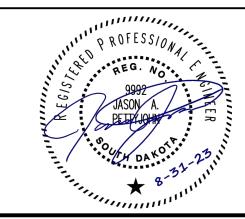


600 Kansas City St. Rapid City, SD 57701

> (605) 343-6102 www.teamtsp.com

> > Architecture Engineering Planning





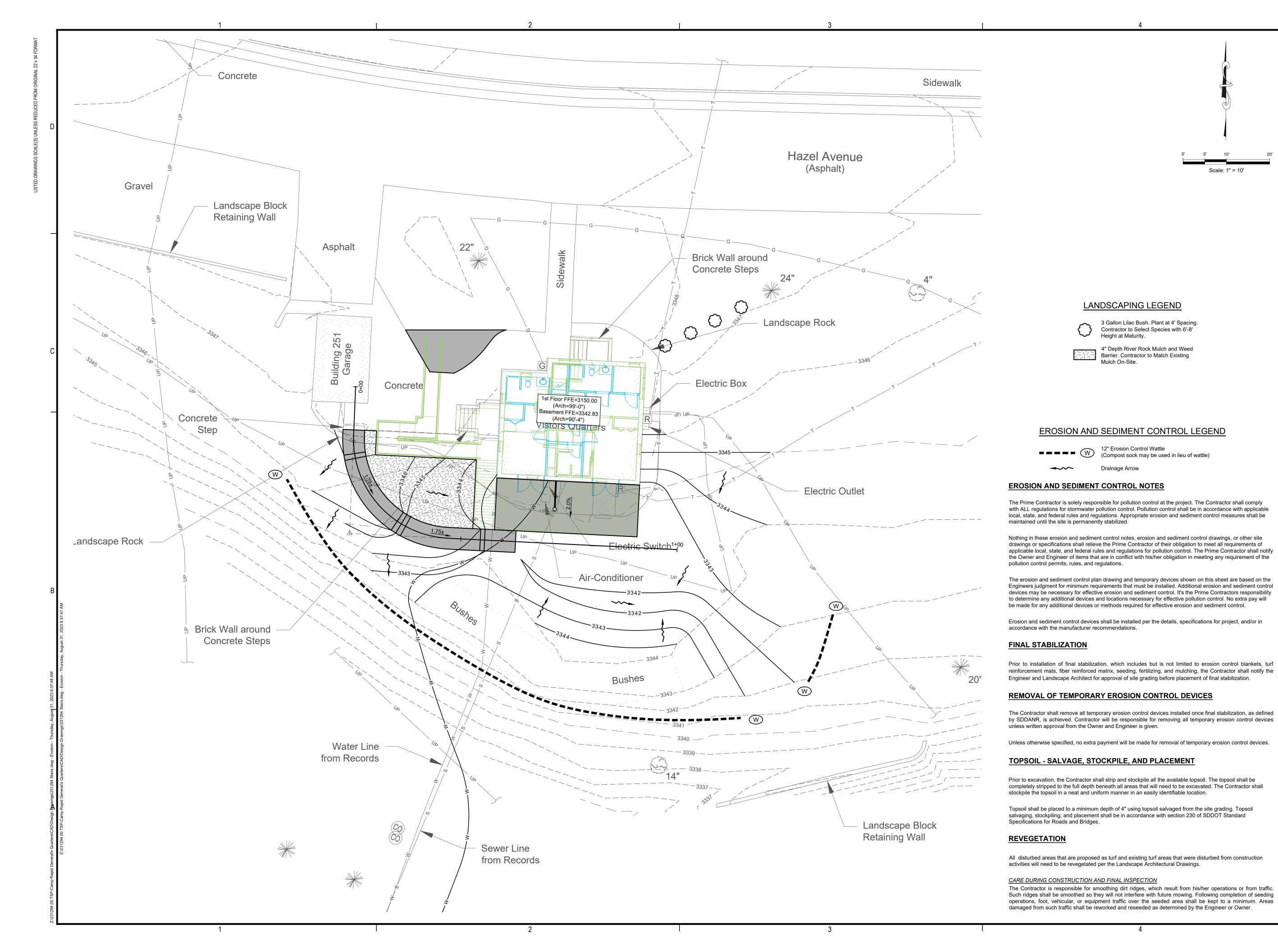
PROJECT TITLE



SOUTH DAKOTA DEPARTMENT OF THE MILITARY RENOVATE GENERALS QUARTERS BUILDING

RC CAMP RAPID

ISSUE DATE DRAWN BY 08/31/2023 MDS PROJECT # CHECKED BY 03221580 JAP SHEET TITLE Site Profiles	<u>ک</u>
Site Profiles	Z IJ
Site Profiles	∑ ∑
Ę	
	SIRUCI
	NS.
	CCC
C-103	100%





> (605) 343-6102 www.teamtsp.com

> > Architecture Engineering Planning

CONSULTANTS

3700 Sturgis Road



PROJECT TITLE



SOUTH DAKOTA **DEPARTMENT OF THE MILITARY RENOVATE GENERALS QUARTERS BUILDING**

RC CAMP RAPID

ISSUES

ISSUE DATE DESCRIPTION ISSUE DATE DRAWN BY 08/31/2023 MDS PROJECT# CHECKED BY 03221580 SHEET TITLE

Erosion Control &

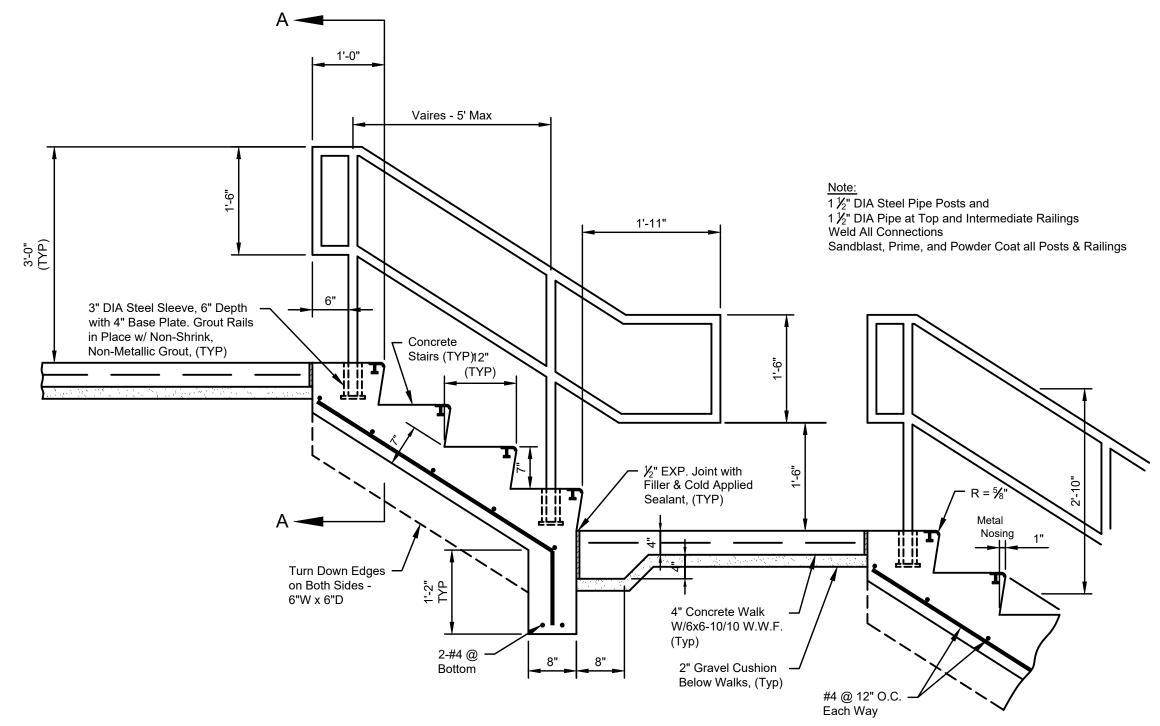
FMG ENGINEERING Rapid City, SD 57702 605.342.4105 • fmgengineering.com FMG Job # 231294.00

Landscaping Plan

CONSTRUCTION

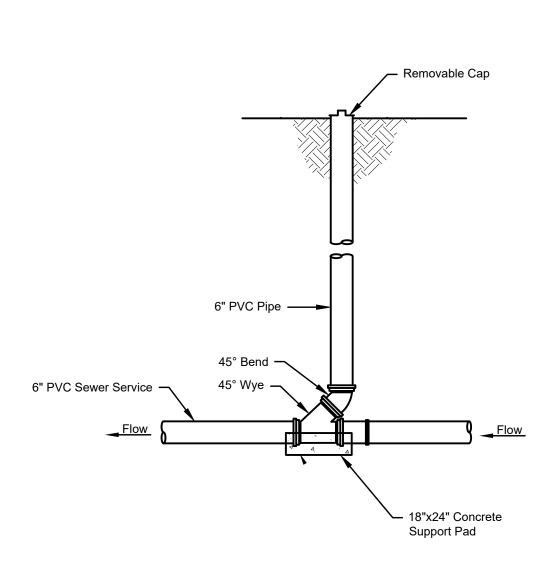
SHEET NUMBER

SIDEWALK AND STAIR PROFILE Not to Scale



CONCRETE STAIR - TYPICAL SECTION

Scale: 3/4"=1'-0"



SANITARY SEWER CLEANOUT

Not To Scale



600 Kansas City St. Rapid City, SD 57701

> (605) 343-6102 www.teamtsp.com

> > Architecture Engineering

CONSULTANTS FMG ENGINEERING 3700 Sturgis Road Rapid City, SD 57702 605.342.4105 • fmgengineering.com FMG Job # 231294.00



PROJECT TITLE



SOUTH DAKOTA DEPARTMENT OF THE MILITARY RENOVATE GENERALS **QUARTERS BUILDING**

RC CAMP RAPID

ISSUES

ISSUE	DATE	DESCRIPTION	$\Box \Sigma$
ISSUE DATE 08/31/2023		DRAWN BY MDS	EN-
PROJECT# 03221580		CHECKED BY JAP	OCUMEN
Site Det	ails		SONSTRUCTION DO
SHEET NUMBER	;-1	05	100% CO

DESIGN CODE

DESIGN LOADS

ROOF LIVE LOAD

WIND LOADS

INTERNATIONAL BUILDING CODE, 2021

RESIDENTIAL FLOOR LIVE LOAD - 40 PSF

GROUND SNOW LOAD Pg = 43 PSF

FLAT ROOF SNOW LOAD $P_f = 30 PSF$

SNOW EXPOSURE FACTOR C_e = 1.0

THERMAL FACTOR C_t = 1.0

BASIC WIND SPEED = 115 MPH

RISK CATEGORY II (ASCE 7-16)

RISK CATEGORY II (ASCE 7-16)

SPECTRAL RESPONSE COEFFICIENTS

SEISMIC IMPORTANCE FACTOR = 1.00

COMPRESSIVE STRENGTH: 4500 PSI @ 28 DAYS

FLY ASH (25% MAX BY WEIGHT) -ASTM C618, CLASS F OR C

SITE CLASS D (ASSUMED DEFAULT)

SEISMIC DESIGN CATEGORY A

WIND EXPOSURE = C

 S_S (0.2 SEC)= 0.142g

 S_1 (1.0 SEC)= 0.041g

MATERIALS GRADES AND STRENGTHS

CAST-IN-PLACE CONCRETE

SEISMIC LATERAL LOADS

SNOW LOAD IMPORTANCE FACTOR I = 1.0

BUILDING CODE FOR THE CITY OF RAPID CITY, SD

EXTERIOR BALCONY FLOOR LIVE LOAD - 60 PSF

PLUS PARTITION SUPERIMPOSED FLOOR LIVE LOAD - 15 PSF

PLUS APPLICABLE SLIDING, DRIFTING AND UNBALANCED SNOW LOAD INCREASES

CONCENTRATED LOADS AS SHOWN IN ASCE 7 TABLE 4.3-1 SHALL BE ACCOUNTED FOR AS INDICATED

NOTE: ALL CONSTRUCTION MATERIALS MUST MEET BABAA (BUILD AMERICA, BUY AMERICA ACT). CONTRACTOR

RESPONSIBLE FOR VERIFYING BABAA COMPLIANCE OF ALL CONSTRUCTION MATERIALS.

AGGREGATE: ASTM C33, CLASS 3S, 3/4" MAX COARSE-AGGREGATE SIZE

CEMENTITIOUS MATERIALS: PORTLAND CEMENT -ASTM C150, TYPE I/II OR IL

GENERAL STRUCTURAL NOTES

FOUNDATIONS FOOTINGS HAVE BEEN DESIGNED FOR A MAXIMUM SOIL BEARING PRESSURE OF 1500 PSF. THE CONTRACTOR IS TO EMPLOY A GEOTECHNICAL ENGINEER REGISTERED IN THE STATE OF SOUTH DAKOTA TO VERIFY THIS DESIGN ASSUMPTION. CONTRACTOR TO FOLLOW GEOTECHNICAL RECOMMENDATIONS TO ACHIEVE DESIGN SOIL BEARING PRESSURE. IF THE SOIL AT THE FOOTING ELEVATIONS SHOWN IS OF QUESTIONABLE BEARING VALUE, NOTIFY THE

ARCHITECT/ ENGINEER AT ONCE FOR RESOLUTION. TESTING SERVICE MUST INSPECT AND APPROVE SUBGRADES AND FILL LAYERS BEFORE FURTHER CONSTRUCTION WORK IS PERFORMED THEREON. NOTIFY TESTING SERVICE PRIOR TO PROCEEDING WITH PLACEMENT OF FOOTINGS, FILL, OR OTHER CONSTRUCTION OVER SUBGRADES AND FILL.

WATER SHALL NOT BE PERMITTED TO POND IN FOOTING EXCAVATION. KEEP EXCAVATION DRY. FAILURE TO DO SO WILL BE CAUSE FOR REQUIRING CONTRACTOR TO REMOVE WATER DAMAGED SOILS AND REPLACE WITH

SHOULD ANY QUESTIONABLE CONDITIONS BE ENCOUNTERED DURING EXCAVATION, NOTIFY A/E IMMEDIATELY FOOTING ELEVATIONS ARE SUBJECT TO CHANGE DEPENDING ON SOIL CONDITIONS ENCOUNTERED.

REMOVE ANY ABANDONED SEWER OR SERVICE LINE ENCOUNTERED DURING EXCAVATION WITHIN THE BUILDING LINES. SHOULD SUCH LINES BE FOUND BELOW OR ADJACENT TO FOOTING LOCATIONS, NOTIFY THE A/E.

ALL FOOTINGS SHALL BE CENTERED UNDER WALLS. NO OFFSETS SHALL BE PERMITTED

WHERE FILL MATERIAL IS PLACED ON BOTH SIDES OF GRADE BEAMS OR WALLS, IT SHALL BE PLACED IN LAYERS ALTERNATELY ON OPPOSITE SIDES TO MAINTAIN LEVELS THAT WILL AVOID DISPLACEMENT OF, OR DAMAGE TO, THE WALLS OR BEAMS.

WHERE FILL MATERIAL IS PLACED ON ONE SIDE OF A WALL, THE WALL SHALL BE ADEQUATELY SHORED AND BRACED OR THE MATERIAL SHALL NOT BE PLACED UNTIL SUPPORTING FLOOR SLABS HAVE BEEN POURED AND

NO FILL OR BACKFILL SHALL BE "SETTLED" BY THE USE OF WATER.

PROVIDE DRAINAGE COURSE BELOW ALL INTERIOR, EARTH SUPPORTED, CONCRETE SLABS UNLESS NOTED OTHERWISE:

<u>DRAINAGE COURSE:</u> SHALL BE NARROWLY GRADED MIXTURE OF WASHED CRUSHED STONE, OR CRUSHED OR UNCRUSHED GRAVEL; ASTM D 448; COARSE-AGGREGATE GRADING SIZE 57; WITH 100 PERCENT PASSING A 1-1/2" SIEVE AND ZERO TO 5 PERCENT PASSING A NO. 8 SIEVE, OR AS RECOMMENDED BY GEOTECH/TESTING SERVICE.

PROTECT IN-PLACE FOUNDATIONS AND SLABS ON GRADE FROM FROST PENETRATION UNTIL PROJECT

SLOPE BETWEEN ADJACENT FOOTINGS OR EXCAVATIONS SHALL NOT EXCEED ONE VERTICAL TO TWO HORIZONTAL. STEP FOOTINGS DOWN AS NECESSARY TO MAINTAIN THIS SLOPE.

COLD WEATHER CONCRETE PLACEMENT SHALL FOLLOW ACI 306 PROCEDURES. HOT WEATHER CONCRETE

ARRANGEMENT AND BENDING OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH CRSI'S MANUAL OF

IN ADDITION TO OTHER REINFORCING NOTED, PROVIDE 2 - #5 ON EVERY SIDE OF EACH OPENING IN CONCRETE

AT ALL PENETRATIONS THROUGH SLABS ON GRADE, PROVIDE #4 BARS ON EVERY SIDE OF EACH OPENING IN CONCRETE SLAB. EXTEND #4 BARS 18" BEYOND EACH EDGE OF OPENING.

PROVIDE FLOOR DRAINS AS SHOWN ON ARCHITECTURAL AND/OR MECHANICAL DRAWINGS. REFERENCE ARCHITECTURAL AND/OR MECHANICAL FOR DRAIN TYPES, QUANTITIES, LOCATIONS, AND FLOOR SLOPES.

ALL REINFORCING BARS. WHERE AT LEAST 2 BAR DIAMETERS OF SPACING OR 1 BAR DIAMETER OF CLEAR COVER IS PROVIDED AROUND THE BARS, SHALL BE LAP SPLICED 50 BAR DIAMETERS (FOR #6 BARS & SMALLER) OR 62 BAR DIAMETERS (FOR #7 & GREATER). IF 2 BAR DIAMETERS OF SPACING OR 1 BAR DIAMETER OF CLEAR COVER IS NOT PROVIDED THEN REINFORCING BARS SHALL BE LAP SPLICED 74 BAR DIAMETERS (FOR #6 BARS & SMALLER) OR 93 BAR DIAMETERS (FOR #7 & GREATER). STAGGER LAPS IN SLABS AND WALLS. SPLICE BARS IN GRADE BEAMS, STRUCTURAL SLABS, JOISTS, BEAMS, PILASTERS OR COLUMNS ONLY WHERE SHOWN ON DRAWINGS OR

MINIMUM CONCRETE COVER TO REINFORCING STEEL, UNO, SHALL BE AS FOLLOWS:

FORMED SURFACES NOT IN CONTACT WITH EARTH OR EXPOSED TO WEATHER:

DETAIL AND PROVIDE SUITABLE WIRE SPACERS, CHAIRS, TIES, ETC., FOR SUPPORTING REINFORCING STEEL IN THE PROPER POSITION WHILE PLACING CONCRETE. ALL CHAIRS SUPPORTED BY GRADE SHALL INCLUDE SAND PLATES. BAR SUPPORTS, WHICH COME IN CONTACT WITH EXPOSED SURFACES, SHALL HAVE PLASTIC OR RUBBER TIPS OR

WHERE CONSTRUCTION & CONTROL JOINTS ARE NOT SHOWN, OR WHEN ALTERNATE LOCATIONS ARE PROPOSED, DRAWINGS SHOWING LOCATION OF CONSTRUCTION AND CONTROL JOINTS AND PLACING SEQUENCE SHALL BE SUBMITTED FOR APPROVAL PRIOR TO PLACEMENT OF THE CONCRETE SLAB ON GRADE.

HORIZONTAL CONSTRUCTION JOINTS ARE NOT PERMITTED IN CONCRETE MEMBERS UNLESS SHOWN ON THE DRAWINGS OR APPROVED IN ADVANCE. VERTICAL CONSTRUCTION JOINTS OR BULKHEADS SHALL BE MADE AT

SIZE OF CONCRETE POURS BETWEEN CONSTRUCTION JOINTS SHALL BE LIMITED TO:

VERIFY LOCATION OF OPENINGS SHOWN THROUGH CONCRETE SLABS OR WALLS AND COORDINATE ANY ADDITIONAL REQUIRED OPENINGS WITH OTHER TRADES AND THE ARCHITECT/ENGINEER.

CONCRETE EXPOSED TO FREEZING AND THAWING SHALL CONTAIN 6%(+/-1.5%) ENTRAINED AIR.

SUBMIT MIX DESIGN TO ENGINEER/ARCHITECT FOR APPROVAL PRIOR TO PLACING ANY CONCRETE

CURE CONCRETE ACCORDING TO ACI 308.1 UTILIZING A COMBINATION OF MOISTURE CURING, COVER CURING, OR

LATEST AISC STEEL CONSTRUCTION MANUAL, AISC 303 CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES, AND AISC 360 SPECIFICATIONS APPLY.

WELDING ELECTRODES SHALL BE 70XX, UNO

ALL WELDING SHALL BE BY WELDERS HOLDING VALID CERTIFICATES IN THE TYPE OF WELD REQUIRED.

TO AVOID UNDESIRABLE STRESSES IN PLATES OR THEIR ANCHORS, ALL WELDS SHALL BE MADE IN SINGLE PASSES IF APPLICABLE. SYMMETRICALLY AROUND THE PLATE. WHEN MULTIPLE PASSES ARE REQUIRED SUFFICIENT TIME SHALL BE ALLOWED BETWEEN PASSES FOR THE HEAT TO DISSIPATE

ALL HIGH STRENGTH BOLTED CONNECTIONS (NOT WITHIN THE SLIP-CRITICAL CATEGORY NOR SUBJECT TO TENSION LOADS NOR REQUIRED TO BE FULLY TENSIONED BEARING-TYPE CONNECTIONS) SHALL BE TIGHTENED TO THE SNUG TIGHT CONDITION SPECIFIED IN THE SECTION 8.1 OF THE AISC SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS, ARTICLE 8(c)...

NOT ALL CONNECTIONS ARE DETAILED; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE INDICATED. CONTACT THE ENGINEER OR ARCHITECT PROMPTLY TO VERIFY THE DETAILS OF MEMBERS OR CONNECTIONS IN ANY SITUATION WHERE REQUIREMENTS ARE UNCLEAR. CONTRACTOR SHALL PROVIDE THE NECESSARY BRACING DURING ERECTION AND UNTIL ALL STEEL IS PLUMB AND SECURED.

ALL WELDING AND TESTING OF WELDS SHALL BE IN ACCORDANCE WITH AMERICAN WELDING SOCIETY CODES

FIELD CUTTING OR OTHER FIELD MODIFICATIONS TO STRUCTURAL STEEL SHALL NOT BE MADE WITHOUT SPECIFIC PRIOR WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER.

STRUCTURAL STEEL FRAMING SHALL BE TRUE AND PLUMB BEFORE CONNECTIONS ARE FINAL BOLTED OR WELDED.

PLACE 5/8" DIAMETER HEADED ANCHOR BOLTS (7" MIN EMBED) AT 48" OC IN TOP OF THICKENED SLAB FOUNDATION FOR ANCHORAGE OF WOOD PLATE.

NO OPENINGS OR SLEEVES SHALL BE CUT OR PROVIDED IN WALLS OR FLOOR CONSTRUCTION WITHOUT APPROVAL BY THE A/E

PROVIDE WOOD FRAMING MEMBERS OF SIZE AND SPACING INDICATED; DO NOT SPLICE STRUCTURAL MEMBERS BETWEEN SUPPORTS

FASTEN 2-PLY AND 3-PLY DIMENSION LUMBER BEAMS TOGETHER USING 2 ROWS OF 10D NAILS STAGGERED AT 6" OC. UNO.

FLOOR AND ROOF SHEATHING PANELS SHALL BE ORIENTED WITH FACE GRAIN PERPENDICULAR TO TRUSS SUPPORTS AND PANEL JOINTS SHALL BE STAGGERED.

ALL CONSTRUCTION SHALL COMPLY WITH THE "CONVENTIONAL LIGHT-FRAME CONSTRUCTION PROVISIONS" OF THE INTERNATIONAL BUILDING CODE (SECTION 2308), UNO.

ALL SAWN LUMBER SHALL BE STAMPED WITH THE GRADE MARK OF AN APPROVED LUMBER GRADING AGENCY.

GLUE LAMINATED MEMBERS TO BEAR THE AITC STAMP AND CERTIFICATE AND GRADE STAMP

ALL METAL CONNECTORS SHALL BE IBC APPROVED.

ALL NAILS SHALL BE COMMON NAILS, UNO. REFER TO THE NAILING SCHEDULE IN THE INTERNATIONAL BUILDING CODE TABLE NO. 2304.10.1 FOR CONNECTIONS NOT DETAILED.

11. GLUE AND NAIL SUBFLOOR SHEATHING TO JOISTS.

ALL BOLTED SILL PLATES, TOP PLATES, LEDGERS, ETC., SHALL HAVE BOLTS WITHIN 6" OF END OF ALL SPLICES 12. AND SHALL HAVE A MINIMUM OF TWO BOLTS PER SECTION OR AS INDICATED ON DRAWINGS.

PROVIDE 1 X 4 BRIDGING OR SOLID BLOCKING AT 8'-0" MAXIMUM CENTERS FOR JOISTS AND RAFTERS DO NOT NOTCH OR DRILL JOISTS OR LOAD BEARING STUDS WITHOUT PRIOR APPROVAL OF THE STRUCTURAL

15. PROVIDE DOUBLE JOISTS UNDER ALL STUD PARTITIONS RUNNING PARALLEL TO FLOOR JOISTS.

PROVIDE (2) SIMPSON ST6224 STRAPS AT ALL LOCATIONS WHERE BOTH TOP PLATES ARE THROUGH CUT

JOISTS SHALL BE ANCHORED TO TOP PLATES WITH ONE SIMPSON H3 HANGER AT EACH BEARING POINT.

ALL INTERIOR BEARING WALLS SHALL HAVE SHEATHING ON EACH FACE FASTENED @ 6" OC ALONG ALL PANEL EDGES (FULLY BLOCKED). AT GYPSUM WALL BOARD USE 6d COOLER NAILS AND AT WOOD SHEATHING USED 8d

IBC SPECIAL INSPECTION REQUIREMENTS

THE FOLLOWING WORK ITEMS REQUIRE SPECIAL INSPECTION PER IBC CHAPTER 17:

CONTINUOUS FORMED KCJ W/ SEALANT

@ EXPOSED TO VIEW AREAS AND JOINT

FILLER @ COVERED AREAS PER FLOOR

SAWED CJ W/ SEALANT @ EXPOSED TO

COVERED AREAS PER FLOOR COVER MFR -

VIEW AREAS AND JOINT FILLER @

COVER MFR -

VAPOR RETARDER -

DRAINAGE COURSE

VAPOR RETARDER

DRAINAGE COURSE -

 $_{\wedge}$ TYP CONTROL/CONSTRUCTION JOINT

A. 1705.2 STEEL CONSTRUCTION - REF AISC 360 FOR REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION.

B. 1705.3 CONCRETE CONSTRUCTION - REF TABLE 1705.3 FOR REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION. C. 1705.5 WOOD CONSTRUCTION - REF SECTION 1704.2.5 FOR PREFABRICATED WOOD ELEMENTS AND

ASSEMBLIES. REF SECTION 1705.5 FOR SITE-BUILT ASSEMBLIES. D. 1705.6 SOILS - REF SECTION 1705.6 AND TABLE 1705.6 FOR REQUIRED VERIFICATION AND INSPECTION OF

ABBREVIATIONS: POUNDS PER SQUARE INCH **GENERAL CONTRACTOR** POUNDS PER SQUARE FOO GLU-LAM GLU LAMINATED (BEAM) PSF ARCHITECTURAL AND GR BM GRADE BEAM PRESSURE TREAT(ED) ENGINEERING GYP GYPSUM POINT ANCHOR BOLT/ROD PVC POLYVINYL CHLORIDE ABOVE HEADED ANCHOR BOLT ADDENDUM ADD RADIUS/RISER ADJUSTABLE, ADJACENT, HAS HEADED ANCHOR STUD HOLLOW CORE REFERENCE ADJOINING ABOVE FINISH FLOOR HEADER REINFORCE (D), (ING), (MENT HDR REINF HORIZ HORIZONTAL AGGR AGGREGATE REQUIRE HOLLOW STRUCTURAL SHAPE HSS REQD REQUIRED ALTERNATE APPROX APPROXIMATE HEIGHT REVISION (S), REVISED ARCH ROUGH OPENING ARCHITECT (URAL) INSUL INSULATE (D), INSULATION ______ SECT SECTION BFF BELOW FINISH FLOOR INT INTERIOR SHEET INV EL INVERT ELEVATION BRICK I FDGF SHEATHING SHTHG BLKG BLOCK (ING) SIMII AR BEAM JOIST BOT SLAB-ON-GRADE BOTTOM JOINT SPEC SPECIFICATION (S) **BOTTOM OF** SQ SQUARE **BEARING** THOUSAND POUND (KIP) STAINLESS STEEL BTWN BETWEEN SST KCJ KEYED CONSTRUCTION JOINT STANDARD KIP THOUSAND POUND STEFI CHANNEL THOUSAND POUND PER LINEAR STRUCT STRUCTURAL **CUBIC FEET OR FOOT** CHFR CHAMFER KSF THOUSAND POUND PER SQUARE T&R TOP AND BOTTOM CAST-IN-PLACE CONCRETE CIPC TONGUE AND GROOVE T&G CONTROL JOINT THOUSAND POUND PER SQUARE TO BE DETERMINED **CENTER LINE** CLEAR, CLEARANCE THREAD (ED) (S) ______ THICKNESS CMU CONCRETE MASONRY UNIT LENGTH THROUGH COL COLUMN POUND CONC TOTAL LOAD CONCRETE LINEAR FEET TOP OF CONN CONNECT (ION) LIVE LOAD TOP OF BEAM CONST TOB CONSTRUCTION LONG LEG HORIZONTAL CONT TOC TOP OF CONCRETE CONTINUOUS, CONTINUE LLV LONG LEG VERTICAL TOF TOP OF FOOTING CONTR CONTRACT (OR LOCATION LOC TOP TOP OF PIER COORD COORDINATE LONG LONGITUDINA TOS TOP OF SLAB CENTER LT WT LIGHTWEIGHT TOS TOP OF STEEL CUBIC YARD TOW TOP OF WALL MAX MAXIMUM DOUBLE **TRANS TRANSVERSE** MISCELLANEOUS CHANNEL DEMO DEMOLITION, DEMOLISH TUBE STEEL MECH MECHANICAL DET TYP TYPICAL DETAIL MANUFACTURE (R) MFR DIAMETER MINIMUM DIAG DIAGONAL UNLESS NOTED OTHERWISE MISC MISCELLANEOUS DIMENSION METAL MTL VERT DEAD LOAD VFRTICAL DWG DRAWING (S) VAPOR RETARDER NOT APPLICABLE NIC NOT IN CONTRACT EACH WIDTH NUMBER EACH FACE WITH NEAR SIDE **ELEVATION** WITHOUT NON-SHRINK, NON-METALLIC NSNM WOOD EMB EMBED (ED) NOT TO SCALE NTS EOR WIDE FLANGE **FNGINFFR OF RECORD FQUAI** WIND LOAD OC ON CENTER **EQUIP** EQUIPMEN1 WORKING POINT OUTSIDE DIAMETER OD WFIGHT **FACH WAY** OVERHEAD **EXISTING** WELDED WIRE FABRIC OPPOSITE OPP **EXPANSION** EXP BT EXPANSION BOLT EXTERIOR SYMBOLS LEGEND

MOST COMMONLY USED STRUCTURAL ABBREVIATIONS

FINISH (FD)

FLOOR (ING)

FOUNDATION

FOOT, FEET

GAGE, GAUGE

FOOTING

FAR SIDE

FUTURE

FLANGE

FDTN

FTG

FUT

FINISH FLOOR ELEVATION

POUNDS PER CUBIC FOOT

PRE-ENGINEERED METAL

POUNDS PER LINEAR FOOT

BUILDING

PRFCAST

PLYWOOD

PLATE

PANEL

PERPENDICULAR

PREFABRICATE

PEMB

PREFAB

PLYWD

SYMBOLS USED AS ABBREVIATIONS:

DOUBLE ANGLE

POUND OR NUMBER

ROUND OR DIAMETER

ANGLE

PENNEY

— ⋖ STP FTG	——⊲ STP WALL	CONT	(C1)	1	1	XX" Ø X XX'-X" / XX'-X"
FOOTING STEP	FOUNDATION WALL STEP	CONTINUOUS BEAM INDICATOR	CORNER REINF INDICATOR	REVISION SYMBOL	KEYNOTE IDENTIFIER	PIER TAG INDICATOR
(P1)	R1)	A	GRID	SPAN	4	•
MASONRY PIER INDICATOR	WALL REINFORCING INDICATOR	DETAIL SECTION INDICATOR	COLUMN/FND GRID INDICATOR	PC SPAN IDENTIFIER	ROOF SLOPE INDICATOR	ELEVATION TAG
A1 A-101	A1 A-101				EE	

PLAN NORTH NORTH ORIENTED 90° TO THE SHEET **DETAIL BUBBLE** PLAN NORTH INDICATORS **INDICATOR** INDICATOR

MATCH LINE INDICATOR **PLAN OR DETAIL** VIEW TITLE

SHEET INDEX - STRUCTURAL			
SHEET#	SHEET NAME		
S-001	STRUCTURAL GENERAL NOTES & TITLE SHEET		
S-101	EXISTING FOUNDATION, FLOOR FRAMING, & ROOF FRAMING PLANS		
S-102	FOUNDATION PLAN		
S-103	FLOOR FRAMING PLAN		
S-104	ROOF FRAMING PLAN		
S-501	STRUCTURAL DETAILS		

600 Kansas City St Rapid City, SD 57701

(605) 343-6102 www.teamtsp.com

> Architecture Engineering Planning

CONSULTANTS



SOUTH DAKOTA DEPARTMENT OF THE MILITARY RENOVATE GENERALS **QUARTERS BUILDING**

RC CAMP RAPID

ISSUES

_				
	ISSUE	DATE	DESCRIPTION	\sqsupset
	ISSUE DATE 08/31/2023	3	DRAWN BY KRC/ARW	- <u>:</u> i
	PROJECT # 03221580		CHECKED BY ARW	
	SHEET TITLE			- (

STRUCTURAL GENERAL **NOTES & TITLE SHEET**

© TSP, Inc. 2022

SCALE: 3/4" = 1'-0"

10'-5" (+/-) EXISTING FLOOR BEAM (FIELD VERIFY) -EXISTING ASSUMED HEADER (FIELD VERIFY) - EXISTING ASSUMED HEADER (FIELD VERIFY) ➤ EXISTING BEARING WALLS (FIELD VERIFY) EXISTING BEARING WALLS (FIELD VERIFY) - EXISTING ASSUMED HEADER (FIELD VERIFY)

THE EXISTING FLOOR FRAMING

CONFIGURATION SHOWN IS BASED ON

LIMITED TIME & ACCESS TO ABOVE CEILING

CONFIGURATION MAY VARY. FIELD VERIFY &

SPACE. THE ACTUAL EXISTING FRAMING

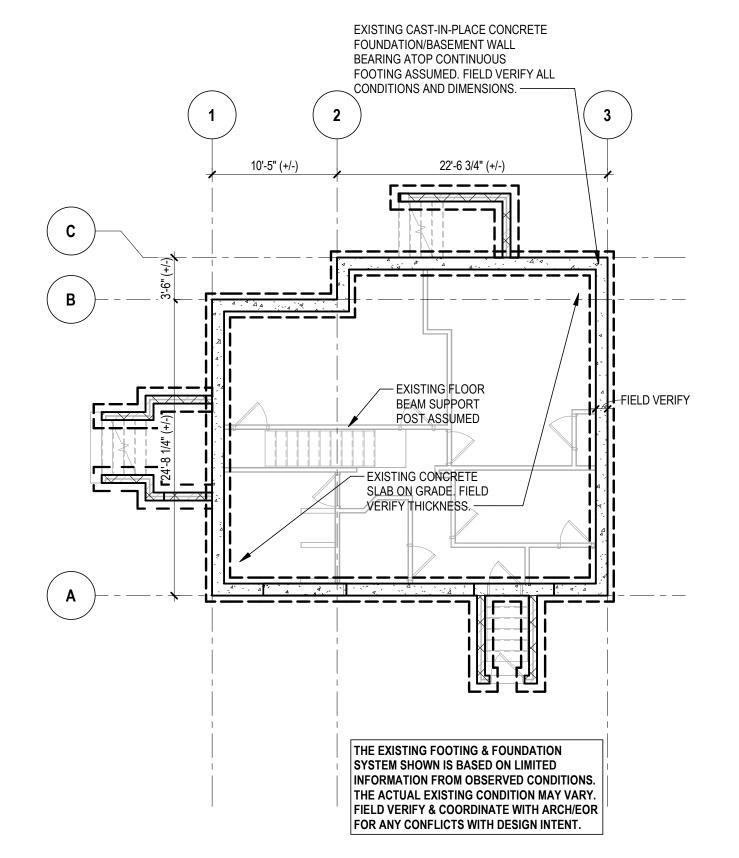
COORDINATE WITH ARCH/EOR FOR ANY CONFLICTS WITH DESIGN INTENT.

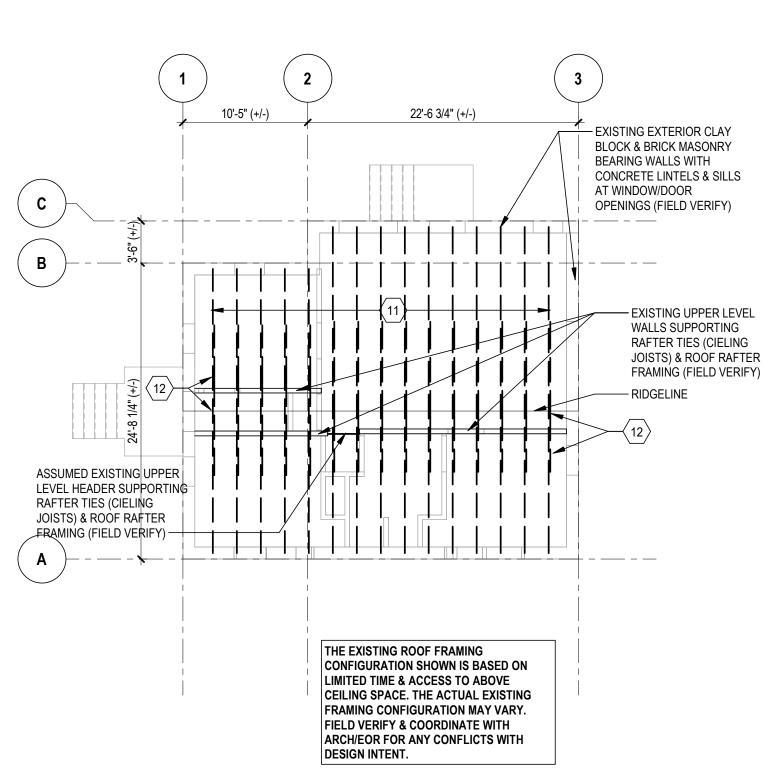
2

PLAN NORTH

C1 FLOOR FRAMING - EXISTING
SCALE: 1/8" = 1'-0"

FOUNDATION - EXISTING







ROOF LEVEL - EXISTING
SCALE: 1/8" = 1'-0"



SHEET GENERAL NOTES:

- TOP OF BASEMENT CONCRETE SLAB ON GRADE = 90'-4" (+/-) (FIELD VERIFY)
- AT ALL INTERIOR LOCATIONS, UNO, PROVIDE A 4" CONCRETE SLAB ON GRADE ATOP VAPOR RETARDER ATOP GEOTECH/TESTING AGENCY APPROVED COMPACTED EXISTING SUBGRADE UNO. COORDINATE SLAB ELEVATIONS AND SLOPES W/ ARCH.
- COMPACTION REQUIREMENTS (UNO BY GEOTECH ENGINEER/TESTING SERVICE RECOMMENDATIONS):
 - LIFTS SHALL BE MADE 8" OR LESS FOR HEAVY SELF-PROPELLED COMPACTION EQUIPMENT OR 4" TO 6" LIFTS FOR HAND-GUIDED COMPACTION EQUIPMENT. - MINIMUM OF 95% COMPACTION OF MATERIAL'S STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D698) & +/-3% OPTIMUM MOISTURE CONTENT.
- PROVIDE FLOOR DRAINS AS SHOWN ON ARCH AND/OR MECH DRAWINGS. REFERENCE ARCH AND/OR MECH FOR DRAIN TYPES, QUANTITIES, LOCATIONS AND FLOOR SLOPES.
- MAXIMUM SPACING FOR CONTROL JOINTS IN THE CONCRETE SLAB ON GRADE SHALL BE 12'-0". THE MAXIMUM RATIO OF UNJOINTED SLAB PANELS BETWEEN JOINTS SHALL NOT EXCEED 1: 1.5 (i.e. 8'-0": 12'-0"). NO REENTRANT CORNERS ALLOWED WITHIN A PANEL. REFERENCE DETAIL A3/S-001 FOR JOINT INFORMATION.
- HOUSEKEEPING PADS REQUIRED FOR MECHANICAL OR ELECTRICAL EQUIPMENT ARE NOT SHOWN ON THIS PLAN. COORDINATE QUANTITY, SIZE AND LOCATION WITH MECH AND ELEC.
- EXISTING FLOOR FRAMING BEARING ELEVATION = 98'-1" (+/-) (FIELD VERIFY).
- TOP OF NEW LVL BEAM ELEVATION = 98'-10-1/2" (+/-), UNO (MATCH EXIST FIELD VERIFY).
- NEW FLOOR JOIST INFILL BEARING ELEVATION = 98'-1" (+/-), UNO (MATCH EXIST FIELD VERIFY).
- CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS. IF ANY NEW CONSTRUCTION CONFLICTS WITH EXISTING CONDITIONS CONTRACTOR SHALL NOTIFY ENGINEER FOR RESOLUTION BEFORE PROCEEDING WITH CONSTRUCTION.
- REPLACE ANY EXISTING JOISTS THAT HAVE BEEN CUT THROUGH (REF D4/S-501).

KEY NOTES:

- HATCHED AREA REPRESENTS APPROXIMATE EXTENTS OF DEMOLITION OF EXISTING CONCRETE SLAB. REFERENCE ARCH FOR ADDITIONAL INFORMATION. INFILL AREA WITH NEW THICKENED EDGE CONCRETE SLAB (REF SHEET GENERAL NOTES AND A1/S-501)
- PROVIDE THICKENED SLAB FOOTING (REF PLAN FOR LENGTH AND WIDTH, 8" THICK) AT WOOD POST LOCATIONS. REINFORCE THICKENED SLAB WITH #5 @ 12" OC EACH WAY (#5 @ 12" OC EA WAY T&B @ SIM). ATTACH WOOD POST TO THICKENED SLAB WITH SIMPSON ABU44Z POST BASE (BABAA COMPLIANT - INSTALL PER MAUNFACTURER'S RECOMMENDATIONS) @ (2) 2X4 POSTS & SIMPSON ABU66Z (BABAA COMPLIANT - INSTALL PER MANUFACTURER'S RECOMMENDATIONS) @ (3) 2X6 POSTS W/ (1) 5/8"Ø X 5" EMBED DEWALT PURE110+ (OR EQUAL) DRILL AND EPOXY SET
- HATCHED AREA REPRESENTS MINIMUM EXTENTS OF RIGID INSULATION FOR FROST PROTECTED SHALLOW FOUNDATION DOOR STOOP AND PATIO (REF A4/S-501).
- PROVIDE SIMPSON ABU66Z (BABAA COMPLIANT) POST BASE (GALV) W/ (1) 5/8"Ø X 5" EMBED (GALV) DEWALT PURE110+ DRILL AND EPOXY SET ANCHOR AT POST LOCATIONS.
- AT NEW OPENING LINTEL PROVIDE L3X3X3/16 X 1'-0" LONG CLIP WELDED TO FACE OF JAMB COLUMN WITH A 3/16" X 12" LONG FIELD FILLET WELD. ATTACH CLIP TO EXIST CONCRETE W/ (2) 1/2"Ø X 5" EMBED DEWALT PURE110+ DRILL AND EPOXY SET ANCHORS. FIELD VERIFY EXISTING CONDITIONS AND DEMO SLAB AT JAMB AS REQUIRED TO INSTALL BOTTOM OF JAMB COLUMN/CLIP APPROXIMATELY 4" BELOW SLAB TO CONCEAL JAMB CONNECTION. INFILL CONCRETE AS REQUIRED.
- EXIST FLOOR JOISTS @ 16" OC (FIELD VERIFY). APPROXIMATE JOIST SIZE IS 1 3/4" X 9 1/2".
- NEW WOOD 2X10 INFILL FLOOR JOISTS @16" OC MAX.
- PRESSURE TREATED WOOD 2X10 DECK JOISTS @ 16" OC MAX. ATTACH DECK JOISTS TO GIRDERS WITH SIMPSON LUS28 (BABAA COMPLIANT) FACE MOUNT HANGER (OR EQUAL). TOP OF DECK JOIST ELEVATION = 98'-10 1/2".
- PROVIDE SIMPSON COLUMN CAP CONNECTOR AT ALL COLUMN TO BEAM/GIRDER CONNECTION LOCATIONS AS FOLLOWS (NOTE: SPLICE BEAMS/GIRDERS ONLY AT COLUMN LOCATIONS AS
 - (2) 1 3/4 X 9 1/4 LVL TO (2) 2X4 COLUMN SIMPSON CCQ44SDS2.5 (BABAA COMPLIANT) - (2) 1 3/4 X 9 1/4 LVL TO (3) 2X6 COLUMN - SIMPSON CCQ46SDS2.5 (BABAA COMPLIANT)
- (3) 1 3/4 X 9 1/4 LVL TO (3) 2X6 COLUMN SIMSPON CCQ66SDS2.5 (BABAA COMPLIANT) - (2) 1 3/4 X 11 7/8 PSL TO 6X6 COLUMN - GALV SIMSPON CCQ46SDS2.5 (BABAA COMPLIANT)
- ATTACH (3) 1 3/4 X 9 1/4 LVL BEAM TO (2) 1 3/4 X 9 1/4 LVL GIRDER WITH SIMPSON HHUS5.50/10 (BABAA COMPLIANT) FACE MOUNT HANGER (OR EQUAL) (@ SIM: ATTACH (2) 1 3/4 X 9 1/4 LVL BEAM TO (2) 1 3/4 X 9 1/4 LVL GIRDER WITH SIMPSON HUS412 (BABAA COMPLIANT) FACE MOUNT HANGER (OR EQUAL).
- 11. EXISTING ROOF RAFTERS @ APPROXIMATELY 24" OC (FIELD VERIFY).
- EXISTING BRACING FROM ROOF RAFTERS TO TOP OF WALL (FIELD VERIFY), TYP @ EA RAFTER.
- PROVIDE NEW 2X BRACING FROM ROOF RAFTERS TO TOP OF NEW WALL ON EA SIDE OF NEW WALL (FIELD VERIFY - MATCH EXIST) - LEAVE EXIST BRACING IN PLACE.
- PROVIDE THICKENED SLAB AT STAIR STRINGER (REF A1/S-001)
- DEMOLISH EXISTING CHIMNEY. INFILL EXISTING OPENINGS IN FLOOR FRAMING WITH BLOCKING AND DECKING (MATCH EXISTING) AS REQUIRED. PROVIDE 2X6 FRAMING AT ROOF OPENING BETWEEN RAFTERS AS SHOWN ON PLAN TO SUPPORT NEW FALSE CHIMNEY (NO MASONRY). REFERENCE ARCHITECTURE FOR MORE INFORMATION.
- PROVIDE BUILT-UP (2) 2X6 COLUMN TO SUPPORT LVL BEAM. ATTACH BUILT-UP COLUMN TO BEAM BELOW WITH SIMPSON CCQ44SDS2.5 (BABAA COMPLIANT) OR EQUAL.
- 1 3/4 X 11 7/8 LVL STAIR STRINGERS @ 16" OC. ATTACH SIDE STRINGERS TO WALL FRAMING.
- 2X8 STAIR LANDING JOISTS @ 16" OC. ATTACH JOISTS TO LVL BEAMS W/ SIMPSON LUS28 (BABAA COMPLIANT) FACE MOUNT HANGERS (OR EQUAL
- PROVIDE ADDITIONAL 2X (MATCH EXISTING) SISTERED TO RAFTER TIE/CEILING JOIST BETWEEN NEW LVL BEAMS.
- ATTACH (2) 1 3/4 X 11 7/8 PSL BEAM TO (2) 1 3/4 X 11 7/8 PSL GIRDER WITH SIMPSON HU412 (BABAA COMPLIANT) OR EQUAL FACE MOUNT HANGERS.
- ATTACH (2) 1 3/4 X 11 7/8 PSL BEAM TO (2)2X12 PT LEDGER WITH SIMPSON HU412 (BABAA COMPLIANT) OR EQUAL FACE MOUNT HANGER.
- ATTACH 2X10 PT JOISTS TO (2)2X12 PT LEDGER WITH SIMPSON LUS210 (BABAA COMPLIANT) OR EQUAL FACE MOUNT HANGERS.
- PROVIDE PRESSURE TREATED (2)2X12 LEDGER. ATTACH LEDGER TO EXISTING CONCRETE WALL WITH (2) ROWS 1/4" CONCRETE SCREWS (BABAA COMPLIANT) STAGGERED @ 12" OC. ATTACH DECK BEAMS TO LEDGER W/ (2) ROWS #10 WOOD SCREWS STAGGERED @ 12" OC.
- PROVIDE PRESSURE TREATED (2)2X6 KNEE BRACES BETWEEN POST AND GIRDER.

NOTE: NOT ALL KEYNOTES MAY BE USED FOR EACH PLAN.

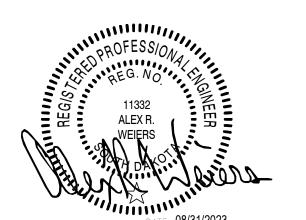


600 Kansas City St. Rapid City, SD 57701

> (605) 343-6102 www.teamtsp.com

> > Architecture Engineering Planning

CONSULTANTS



SOUTH DAKOTA DEPARTMENT OF THE MILITARY RENOVATE GENERALS QUARTERS BUILDING

RC CAMP RAPID

ISSUES

ISSUE	DATE	DESCRIPTION
ISSUE DATE		DRAWN BY
08/31/2023		KRC/ARW
PROJECT#		CHECKED BY
03221580		ARW
CHEET TITLE		

EXISTING FOUNDATION

FLOOR FRAMING, & **ROOF FRAMING PLANS**

SHEET NUMBER

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

SHEET GENERAL NOTES:

- TOP OF BASEMENT CONCRETE SLAB ON GRADE = 90'-4" (+/-) (FIELD VERIFY)
- AT ALL INTERIOR LOCATIONS, UNO, PROVIDE A 4" CONCRETE SLAB ON GRADE ATOP VAPOR RETARDER ATOP GEOTECH/TESTING AGENCY APPROVED COMPACTED EXISTING SUBGRADE UNO. COORDINATE SLAB ELEVATIONS AND SLOPES W/ ARCH.
- COMPACTION REQUIREMENTS (UNO BY GEOTECH ENGINEER/TESTING SERVICE RECOMMENDATIONS):
 - LIFTS SHALL BE MADE 8" OR LESS FOR HEAVY SELF-PROPELLED COMPACTION EQUIPMENT OR 4" TO 6" LIFTS FOR HAND-GUIDED COMPACTION EQUIPMENT. - MINIMUM OF 95% COMPACTION OF MATERIAL'S STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D698) & +/-3% OPTIMUM MOISTURE CONTENT.
- PROVIDE FLOOR DRAINS AS SHOWN ON ARCH AND/OR MECH DRAWINGS. REFERENCE ARCH AND/OR MECH FOR DRAIN TYPES, QUANTITIES, LOCATIONS AND FLOOR SLOPES.
- MAXIMUM SPACING FOR CONTROL JOINTS IN THE CONCRETE SLAB ON GRADE SHALL BE 12'-0". THE MAXIMUM RATIO OF UNJOINTED SLAB PANELS BETWEEN JOINTS SHALL NOT EXCEED 1: 1.5 (i.e. 8'-0": 12'-0"). NO REENTRANT CORNERS ALLOWED WITHIN A PANEL. REFERENCE DETAIL A3/S-001 FOR JOINT INFORMATION.
- HOUSEKEEPING PADS REQUIRED FOR MECHANICAL OR ELECTRICAL EQUIPMENT ARE NOT SHOWN ON THIS PLAN. COORDINATE QUANTITY, SIZE AND LOCATION WITH MECH AND ELEC.
- EXISTING FLOOR FRAMING BEARING ELEVATION = 98'-1" (+/-) (FIELD VERIFY).
- TOP OF NEW LVL BEAM ELEVATION = 98'-10-1/2" (+/-), UNO (MATCH EXIST FIELD VERIFY).
- NEW FLOOR JOIST INFILL BEARING ELEVATION = 98'-1" (+/-), UNO (MATCH EXIST FIELD VERIFY).
- CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS. IF ANY NEW CONSTRUCTION CONFLICTS WITH EXISTING CONDITIONS CONTRACTOR SHALL NOTIFY ENGINEER FOR RESOLUTION BEFORE PROCEEDING WITH CONSTRUCTION.
- REPLACE ANY EXISTING JOISTS THAT HAVE BEEN CUT THROUGH (REF D4/S-501).

KEY NOTES:

- HATCHED AREA REPRESENTS APPROXIMATE EXTENTS OF DEMOLITION OF EXISTING CONCRETE SLAB. REFERENCE ARCH FOR ADDITIONAL INFORMATION. INFILL AREA WITH NEW THICKENED EDGE CONCRETE SLAB (REF SHEET GENERAL NOTES AND A1/S-501)
- PROVIDE THICKENED SLAB FOOTING (REF PLAN FOR LENGTH AND WIDTH, 8" THICK) AT WOOD POST LOCATIONS. REINFORCE THICKENED SLAB WITH #5 @ 12" OC EACH WAY (#5 @ 12" OC EA WAY T&B @ SIM). ATTACH WOOD POST TO THICKENED SLAB WITH SIMPSON ABU44Z POST BASE (BABAA COMPLIANT - INSTALL PER MAUNFACTURER'S RECOMMENDATIONS) @ (2) 2X4 POSTS & SIMPSON ABU66Z (BABAA COMPLIANT - INSTALL PER MANUFACTURER'S RECOMMENDATIONS) @ (3) 2X6 POSTS W/ (1) 5/8"Ø X 5" EMBED DEWALT PURE110+ (OR EQUAL) DRILL AND EPOXY SET
- HATCHED AREA REPRESENTS MINIMUM EXTENTS OF RIGID INSULATION FOR FROST PROTECTED SHALLOW FOUNDATION DOOR STOOP AND PATIO (REF A4/S-501).
- PROVIDE SIMPSON ABU66Z (BABAA COMPLIANT) POST BASE (GALV) W/ (1) 5/8"Ø X 5" EMBED (GALV) DEWALT PURE110+ DRILL AND EPOXY SET ANCHOR AT POST LOCATIONS.
- AT NEW OPENING LINTEL PROVIDE L3X3X3/16 X 1'-0" LONG CLIP WELDED TO FACE OF JAMB COLUMN WITH A 3/16" X 12" LONG FIELD FILLET WELD. ATTACH CLIP TO EXIST CONCRETE W/ (2) 1/2"Ø X 5" EMBED DEWALT PURE110+ DRILL AND EPOXY SET ANCHORS. FIELD VERIFY EXISTING CONDITIONS AND DEMO SLAB AT JAMB AS REQUIRED TO INSTALL BOTTOM OF JAMB COLUMN/CLIP APPROXIMATELY 4" BELOW SLAB TO CONCEAL JAMB CONNECTION. INFILL CONCRETE AS REQUIRED.
- EXIST FLOOR JOISTS @ 16" OC (FIELD VERIFY). APPROXIMATE JOIST SIZE IS 1 3/4" X 9 1/2".
- NEW WOOD 2X10 INFILL FLOOR JOISTS @16" OC MAX.
- PRESSURE TREATED WOOD 2X10 DECK JOISTS @ 16" OC MAX. ATTACH DECK JOISTS TO GIRDERS WITH SIMPSON LUS28 (BABAA COMPLIANT) FACE MOUNT HANGER (OR EQUAL). TOP OF DECK JOIST ELEVATION = 98'-10 1/2".
- PROVIDE SIMPSON COLUMN CAP CONNECTOR AT ALL COLUMN TO BEAM/GIRDER CONNECTION LOCATIONS AS FOLLOWS (NOTE: SPLICE BEAMS/GIRDERS ONLY AT COLUMN LOCATIONS AS
 - (2) 1 3/4 X 9 1/4 LVL TO (2) 2X4 COLUMN SIMPSON CCQ44SDS2.5 (BABAA COMPLIANT) - (2) 1 3/4 X 9 1/4 LVL TO (3) 2X6 COLUMN - SIMPSON CCQ46SDS2.5 (BABAA COMPLIANT) - (3) 1 3/4 X 9 1/4 LVL TO (3) 2X6 COLUMN - SIMSPON CCQ66SDS2.5 (BABAA COMPLIANT)
- (2) 1 3/4 X 11 7/8 PSL TO 6X6 COLUMN GALV SIMSPON CCQ46SDS2.5 (BABAA COMPLIANT) ATTACH (3) 1 3/4 X 9 1/4 LVL BEAM TO (2) 1 3/4 X 9 1/4 LVL GIRDER WITH SIMPSON HHUS5.50/10 (BABAA COMPLIANT) FACE MOUNT HANGER (OR EQUAL) (@ SIM: ATTACH (2) 1 3/4 X 9 1/4 LVL BEAM TO (2) 1 3/4 X 9 1/4 LVL GIRDER WITH SIMPSON HUS412 (BABAA COMPLIANT) FACE MOUNT
- 11. EXISTING ROOF RAFTERS @ APPROXIMATELY 24" OC (FIELD VERIFY).
- EXISTING BRACING FROM ROOF RAFTERS TO TOP OF WALL (FIELD VERIFY), TYP @ EA RAFTER.
- PROVIDE NEW 2X BRACING FROM ROOF RAFTERS TO TOP OF NEW WALL ON EA SIDE OF NEW WALL (FIELD VERIFY - MATCH EXIST) - LEAVE EXIST BRACING IN PLACE.
- PROVIDE THICKENED SLAB AT STAIR STRINGER (REF A1/S-001)
- DEMOLISH EXISTING CHIMNEY. INFILL EXISTING OPENINGS IN FLOOR FRAMING WITH BLOCKING AND DECKING (MATCH EXISTING) AS REQUIRED. PROVIDE 2X6 FRAMING AT ROOF OPENING BETWEEN RAFTERS AS SHOWN ON PLAN TO SUPPORT NEW FALSE CHIMNEY (NO MASONRY). REFERENCE ARCHITECTURE FOR MORE INFORMATION.
- PROVIDE BUILT-UP (2) 2X6 COLUMN TO SUPPORT LVL BEAM. ATTACH BUILT-UP COLUMN TO BEAM BELOW WITH SIMPSON CCQ44SDS2.5 (BABAA COMPLIANT) OR EQUAL.
- 17. 1 3/4 X 11 7/8 LVL STAIR STRINGERS @ 16" OC. ATTACH SIDE STRINGERS TO WALL FRAMING.
- 2X8 STAIR LANDING JOISTS @ 16" OC. ATTACH JOISTS TO LVL BEAMS W/ SIMPSON LUS28 (BABAA COMPLIANT) FACE MOUNT HANGERS (OR EQUAL
- PROVIDE ADDITIONAL 2X (MATCH EXISTING) SISTERED TO RAFTER TIE/CEILING JOIST BETWEEN
- ATTACH (2) 1 3/4 X 11 7/8 PSL BEAM TO (2) 1 3/4 X 11 7/8 PSL GIRDER WITH SIMPSON HU412 (BABAA COMPLIANT) OR EQUAL FACE MOUNT HANGERS.
- ATTACH (2) 1 3/4 X 11 7/8 PSL BEAM TO (2)2X12 PT LEDGER WITH SIMPSON HU412 (BABAA COMPLIANT) OR EQUAL FACE MOUNT HANGER.
- ATTACH 2X10 PT JOISTS TO (2)2X12 PT LEDGER WITH SIMPSON LUS210 (BABAA COMPLIANT) OR EQUAL FACE MOUNT HANGERS.
- PROVIDE PRESSURE TREATED (2)2X12 LEDGER. ATTACH LEDGER TO EXISTING CONCRETE WALL WITH (2) ROWS 1/4" CONCRETE SCREWS (BABAA COMPLIANT) STAGGERED @ 12" OC. ATTACH
- PROVIDE PRESSURE TREATED (2)2X6 KNEE BRACES BETWEEN POST AND GIRDER.

NOTE: NOT ALL KEYNOTES MAY BE USED FOR EACH PLAN.



600 Kansas City St. Rapid City, SD 57701

> (605) 343-6102 www.teamtsp.com

> > Architecture Engineering Planning

CONSULTANTS



SOUTH DAKOTA DEPARTMENT OF THE MILITARY RENOVATE GENERALS QUARTERS BUILDING

RC CAMP RAPID

ISSUES

ISSUE	DATE	DESCRIPTION	
IOOUE DATE		DD AMAL DV	
ISSUE DATE		DRAWN BY	
08/31/2023		KRC/ARW	
PROJECT#		CHECKED BY	
03221580		ARW	

FOUNDATION PLAN

SHEET NUMBER

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

SHEET GENERAL NOTES:

- TOP OF BASEMENT CONCRETE SLAB ON GRADE = 90'-4" (+/-) (FIELD VERIFY)
- AT ALL INTERIOR LOCATIONS, UNO, PROVIDE A 4" CONCRETE SLAB ON GRADE ATOP VAPOR RETARDER ATOP GEOTECH/TESTING AGENCY APPROVED COMPACTED EXISTING SUBGRADE UNO. COORDINATE SLAB ELEVATIONS AND SLOPES W/ ARCH.
- COMPACTION REQUIREMENTS (UNO BY GEOTECH ENGINEER/TESTING SERVICE RECOMMENDATIONS):
 - LIFTS SHALL BE MADE 8" OR LESS FOR HEAVY SELF-PROPELLED COMPACTION EQUIPMENT OR 4" TO 6" LIFTS FOR HAND-GUIDED COMPACTION EQUIPMENT. - MINIMUM OF 95% COMPACTION OF MATERIAL'S STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D698) & +/-3% OPTIMUM MOISTURE CONTENT.
- PROVIDE FLOOR DRAINS AS SHOWN ON ARCH AND/OR MECH DRAWINGS. REFERENCE ARCH AND/OR MECH FOR DRAIN TYPES, QUANTITIES, LOCATIONS AND FLOOR SLOPES.
- MAXIMUM SPACING FOR CONTROL JOINTS IN THE CONCRETE SLAB ON GRADE SHALL BE 12'-0". THE MAXIMUM RATIO OF UNJOINTED SLAB PANELS BETWEEN JOINTS SHALL NOT EXCEED 1: 1.5 (i.e. 8'-0": 12'-0"). NO REENTRANT CORNERS ALLOWED WITHIN A PANEL. REFERENCE DETAIL A3/S-001 FOR JOINT INFORMATION.
- HOUSEKEEPING PADS REQUIRED FOR MECHANICAL OR ELECTRICAL EQUIPMENT ARE NOT SHOWN ON THIS PLAN. COORDINATE QUANTITY, SIZE AND LOCATION WITH MECH AND ELEC.
- EXISTING FLOOR FRAMING BEARING ELEVATION = 98'-1" (+/-) (FIELD VERIFY).
- TOP OF NEW LVL BEAM ELEVATION = 98'-10-1/2" (+/-), UNO (MATCH EXIST FIELD VERIFY).
- NEW FLOOR JOIST INFILL BEARING ELEVATION = 98'-1" (+/-), UNO (MATCH EXIST FIELD VERIFY).
- CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS. IF ANY NEW CONSTRUCTION CONFLICTS WITH EXISTING CONDITIONS CONTRACTOR SHALL NOTIFY ENGINEER FOR RESOLUTION BEFORE PROCEEDING WITH CONSTRUCTION.
- REPLACE ANY EXISTING JOISTS THAT HAVE BEEN CUT THROUGH (REF D4/S-501).

KEY NOTES:

- HATCHED AREA REPRESENTS APPROXIMATE EXTENTS OF DEMOLITION OF EXISTING CONCRETE SLAB. REFERENCE ARCH FOR ADDITIONAL INFORMATION. INFILL AREA WITH NEW THICKENED EDGE CONCRETE SLAB (REF SHEET GENERAL NOTES AND A1/S-501)
 - PROVIDE THICKENED SLAB FOOTING (REF PLAN FOR LENGTH AND WIDTH, 8" THICK) AT WOOD POST LOCATIONS. REINFORCE THICKENED SLAB WITH #5 @ 12" OC EACH WAY (#5 @ 12" OC EA WAY T&B @ SIM). ATTACH WOOD POST TO THICKENED SLAB WITH SIMPSON ABU44Z POST BASE (BABAA COMPLIANT - INSTALL PER MAUNFACTURER'S RECOMMENDATIONS) @ (2) 2X4 POSTS & SIMPSON ABU66Z (BABAA COMPLIANT - INSTALL PER MANUFACTURER'S RECOMMENDATIONS) @ (3) 2X6 POSTS W/ (1) 5/8"Ø X 5" EMBED DEWALT PURE110+ (OR EQUAL) DRILL AND EPOXY SET
- HATCHED AREA REPRESENTS MINIMUM EXTENTS OF RIGID INSULATION FOR FROST PROTECTED SHALLOW FOUNDATION DOOR STOOP AND PATIO (REF A4/S-501).
- PROVIDE SIMPSON ABU66Z (BABAA COMPLIANT) POST BASE (GALV) W/ (1) 5/8"Ø X 5" EMBED (GALV) DEWALT PURE110+ DRILL AND EPOXY SET ANCHOR AT POST LOCATIONS.
- AT NEW OPENING LINTEL PROVIDE L3X3X3/16 X 1'-0" LONG CLIP WELDED TO FACE OF JAMB COLUMN WITH A 3/16" X 12" LONG FIELD FILLET WELD. ATTACH CLIP TO EXIST CONCRETE W/ (2) 1/2"ØX5" EMBED DEWALT PURE110+ DRILL AND EPOXY SET ANCHORS. FIELD VERIFY EXISTING CONDITIONS AND DEMO SLAB AT JAMB AS REQUIRED TO INSTALL BOTTOM OF JAMB COLUMN/CLIP APPROXIMATELY 4" BELOW SLAB TO CONCEAL JAMB CONNECTION. INFILL CONCRETE AS REQUIRED.
- EXIST FLOOR JOISTS @ 16" OC (FIELD VERIFY). APPROXIMATE JOIST SIZE IS 1 3/4" X 9 1/2".
- NEW WOOD 2X10 INFILL FLOOR JOISTS @16" OC MAX.
- PRESSURE TREATED WOOD 2X10 DECK JOISTS @ 16" OC MAX. ATTACH DECK JOISTS TO GIRDERS WITH SIMPSON LUS28 (BABAA COMPLIANT) FACE MOUNT HANGER (OR EQUAL). TOP OF DECK JOIST ELEVATION = 98'-10 1/2".
- PROVIDE SIMPSON COLUMN CAP CONNECTOR AT ALL COLUMN TO BEAM/GIRDER CONNECTION LOCATIONS AS FOLLOWS (NOTE: SPLICE BEAMS/GIRDERS ONLY AT COLUMN LOCATIONS AS
- (2) 1 3/4 X 9 1/4 LVL TO (2) 2X4 COLUMN SIMPSON CCQ44SDS2.5 (BABAA COMPLIANT) - (2) 1 3/4 X 9 1/4 LVL TO (3) 2X6 COLUMN - SIMPSON CCQ46SDS2.5 (BABAA COMPLIANT)
- (3) 1 3/4 X 9 1/4 LVL TO (3) 2X6 COLUMN SIMSPON CCQ66SDS2.5 (BABAA COMPLIANT) - (2) 1 3/4 X 11 7/8 PSL TO 6X6 COLUMN - GALV SIMSPON CCQ46SDS2.5 (BABAA COMPLIANT)
- ATTACH (3) 1 3/4 X 9 1/4 LVL BEAM TO (2) 1 3/4 X 9 1/4 LVL GIRDER WITH SIMPSON HHUS5.50/10 (BABAA COMPLIANT) FACE MOUNT HANGER (OR EQUAL) (@ SIM: ATTACH (2) 1 3/4 X 9 1/4 LVL BEAM TO (2) 1 3/4 X 9 1/4 LVL GIRDER WITH SIMPSON HUS412 (BABAA COMPLIANT) FACE MOUNT HANGER (OR EQUAL).
- EXISTING ROOF RAFTERS @ APPROXIMATELY 24" OC (FIELD VERIFY).
- EXISTING BRACING FROM ROOF RAFTERS TO TOP OF WALL (FIELD VERIFY), TYP @ EA RAFTER.
- PROVIDE NEW 2X BRACING FROM ROOF RAFTERS TO TOP OF NEW WALL ON EA SIDE OF NEW WALL (FIELD VERIFY - MATCH EXIST) - LEAVE EXIST BRACING IN PLACE.
- PROVIDE THICKENED SLAB AT STAIR STRINGER (REF A1/S-001)
- DEMOLISH EXISTING CHIMNEY. INFILL EXISTING OPENINGS IN FLOOR FRAMING WITH BLOCKING AND DECKING (MATCH EXISTING) AS REQUIRED. PROVIDE 2X6 FRAMING AT ROOF OPENING BETWEEN RAFTERS AS SHOWN ON PLAN TO SUPPORT NEW FALSE CHIMNEY (NO MASONRY). REFERENCE ARCHITECTURE FOR MORE INFORMATION.
- PROVIDE BUILT-UP (2) 2X6 COLUMN TO SUPPORT LVL BEAM. ATTACH BUILT-UP COLUMN TO BEAM BELOW WITH SIMPSON CCQ44SDS2.5 (BABAA COMPLIANT) OR EQUAL.
- 17. 1 3/4 X 11 7/8 LVL STAIR STRINGERS @ 16" OC. ATTACH SIDE STRINGERS TO WALL FRAMING.
- 2X8 STAIR LANDING JOISTS @ 16" OC. ATTACH JOISTS TO LVL BEAMS W/ SIMPSON LUS28 (BABAA COMPLIANT) FACE MOUNT HANGERS (OR EQUAL
- PROVIDE ADDITIONAL 2X (MATCH EXISTING) SISTERED TO RAFTER TIE/CEILING JOIST BETWEEN
- ATTACH (2) 1 3/4 X 11 7/8 PSL BEAM TO (2) 1 3/4 X 11 7/8 PSL GIRDER WITH SIMPSON HU412 (BABAA COMPLIANT) OR EQUAL FACE MOUNT HANGERS.
- ATTACH (2) 1 3/4 X 11 7/8 PSL BEAM TO (2)2X12 PT LEDGER WITH SIMPSON HU412 (BABAA COMPLIANT) OR EQUAL FACE MOUNT HANGER.
- ATTACH 2X10 PT JOISTS TO (2)2X12 PT LEDGER WITH SIMPSON LUS210 (BABAA COMPLIANT) OR EQUAL FACE MOUNT HANGERS.
- PROVIDE PRESSURE TREATED (2)2X12 LEDGER. ATTACH LEDGER TO EXISTING CONCRETE WALL WITH (2) ROWS 1/4" CONCRETE SCREWS (BABAA COMPLIANT) STAGGERED @ 12" OC. ATTACH DECK BEAMS TO LEDGER W/ (2) ROWS #10 WOOD SCREWS STAGGERED @ 12" OC.
- PROVIDE PRESSURE TREATED (2)2X6 KNEE BRACES BETWEEN POST AND GIRDER.

NOTE: NOT ALL KEYNOTES MAY BE USED FOR EACH PLAN.



600 Kansas City St. Rapid City, SD 57701

> (605) 343-6102 www.teamtsp.com

> > Architecture Engineering

CONSULTANTS





SOUTH DAKOTA DEPARTMENT OF THE MILITARY RENOVATE GENERALS QUARTERS BUILDING

RC CAMP RAPID

ISSUES

ISSUE	DATE	DESCRIPTION
ISSUE DATE		DRAWN BY
08/31/2023		KRC/ARW
PROJECT#		CHECKED BY
03221580		ARW

FLOOR FRAMING PLAN

STRUCTION

SHEET NUMBER

SHEET GENERAL NOTES:

- A. TOP OF BASEMENT CONCRETE SLAB ON GRADE = 90'-4" (+/-) (FIELD VERIFY)
- B. AT ALL INTERIOR LOCATIONS, UNO, PROVIDE A 4" CONCRETE SLAB ON GRADE ATOP VAPOR RETARDER ATOP GEOTECH/TESTING AGENCY APPROVED COMPACTED EXISTING SUBGRADE UNO. COORDINATE SLAB ELEVATIONS AND SLOPES W/ ARCH.
- C. COMPACTION REQUIREMENTS (UNO BY GEOTECH ENGINEER/TESTING SERVICE RECOMMENDATIONS):
 - LIFTS SHALL BE MADE 8" OR LESS FOR HEAVY SELF-PROPELLED COMPACTION EQUIPMENT OR 4" TO 6" LIFTS FOR HAND-GUIDED COMPACTION EQUIPMENT.
 MINIMUM OF 95% COMPACTION OF MATERIAL'S STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D698) & +/-3% OPTIMUM MOISTURE CONTENT.
- D. PROVIDE FLOOR DRAINS AS SHOWN ON ARCH AND/OR MECH DRAWINGS. REFERENCE ARCH AND/OR MECH FOR DRAIN TYPES, QUANTITIES, LOCATIONS AND FLOOR SLOPES.
- MAXIMUM SPACING FOR CONTROL JOINTS IN THE CONCRETE SLAB ON GRADE SHALL BE 12'-0". THE MAXIMUM RATIO OF UNJOINTED SLAB PANELS BETWEEN JOINTS SHALL NOT EXCEED 1: 1.5 (i.e. 8'-0": 12'-0"). NO REENTRANT CORNERS ALLOWED WITHIN A PANEL. REFERENCE DETAIL A3/S-001 FOR JOINT INFORMATION.
- HOUSEKEEPING PADS REQUIRED FOR MECHANICAL OR ELECTRICAL EQUIPMENT ARE NOT SHOWN ON THIS PLAN. COORDINATE QUANTITY, SIZE AND LOCATION WITH MECH AND ELEC.
- EXISTING FLOOR FRAMING BEARING ELEVATION = 98'-1" (+/-) (FIELD VERIFY).
- TOP OF NEW LVL BEAM ELEVATION = 98'-10-1/2" (+/-), UNO (MATCH EXIST FIELD VERIFY).
- NEW FLOOR JOIST INFILL BEARING ELEVATION = 98'-1" (+/-), UNO (MATCH EXIST FIELD VERIFY).
- CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS. IF ANY NEW CONSTRUCTION CONFLICTS WITH EXISTING CONDITIONS CONTRACTOR SHALL NOTIFY ENGINEER FOR RESOLUTION BEFORE PROCEEDING WITH CONSTRUCTION.
- K. REPLACE ANY EXISTING JOISTS THAT HAVE BEEN CUT THROUGH (REF D4/S-501).

◯ KEY NOTES:

- 1. HATCHED AREA REPRESENTS APPROXIMATE EXTENTS OF DEMOLITION OF EXISTING CONCRETE SLAB. REFERENCE ARCH FOR ADDITIONAL INFORMATION. INFILL AREA WITH NEW THICKENED EDGE CONCRETE SLAB (REF SHEET GENERAL NOTES AND A1/S-501)
- 2. PROVIDE THICKENED SLAB FOOTING (REF PLAN FOR LENGTH AND WIDTH, 8" THICK) AT WOOD POST LOCATIONS. REINFORCE THICKENED SLAB WITH #5 @ 12" OC EACH WAY (#5 @ 12" OC EA WAY T&B @ SIM). ATTACH WOOD POST TO THICKENED SLAB WITH SIMPSON ABU44Z POST BASE (BABAA COMPLIANT INSTALL PER MAUNFACTURER'S RECOMMENDATIONS) @ (2) 2X4 POSTS & SIMPSON ABU66Z (BABAA COMPLIANT INSTALL PER MANUFACTURER'S RECOMMENDATIONS) @ (3) 2X6 POSTS W/ (1) 5/8"Ø X 5" EMBED DEWALT PURE110+ (OR EQUAL) DRILL AND EPOXY SET ANCHOR.
- 3. HATCHED AREA REPRESENTS MINIMUM EXTENTS OF RIGID INSULATION FOR FROST PROTECTED SHALLOW FOUNDATION DOOR STOOP AND PATIO (REF A4/S-501).
- 4. PROVIDE SIMPSON ABU66Z (BABAA COMPLIANT) POST BASE (GALV) W/ (1) 5/8"Ø X 5" EMBED (GALV) DEWALT PURE110+ DRILL AND EPOXY SET ANCHOR AT POST LOCATIONS.
- 5. AT NEW OPENING LINTEL PROVIDE L3X3X3/16 X 1'-0" LONG CLIP WELDED TO FACE OF JAMB COLUMN WITH A 3/16" X 12" LONG FIELD FILLET WELD. ATTACH CLIP TO EXIST CONCRETE W/ (2) 1/2"Ø X 5" EMBED DEWALT PURE110+ DRILL AND EPOXY SET ANCHORS. FIELD VERIFY EXISTING CONDITIONS AND DEMO SLAB AT JAMB AS REQUIRED TO INSTALL BOTTOM OF JAMB COLUMN/CLIP APPROXIMATELY 4" BELOW SLAB TO CONCEAL JAMB CONNECTION. INFILL CONCRETE AS REQUIRED.
- 6. EXIST FLOOR JOISTS @ 16" OC (FIELD VERIFY). APPROXIMATE JOIST SIZE IS 1 3/4" X 9 1/2".
- 7. NEW WOOD 2X10 INFILL FLOOR JOISTS @16" OC MAX.
- PRESSURE TREATED WOOD 2X10 DECK JOISTS @ 16" OC MAX. ATTACH DECK JOISTS TO GIRDERS WITH SIMPSON LUS28 (BABAA COMPLIANT) FACE MOUNT HANGER (OR EQUAL). TOP OF DECK JOIST ELEVATION = 98'-10 1/2".
- PROVIDE SIMPSON COLUMN CAP CONNECTOR AT ALL COLUMN TO BEAM/GIRDER CONNECTION LOCATIONS AS FOLLOWS (NOTE: SPLICE BEAMS/GIRDERS ONLY AT COLUMN LOCATIONS AS REQUIRED):
 - (2) 1 3/4 X 9 1/4 LVL TO (2) 2X4 COLUMN SIMPSON CCQ44SDS2.5 (BABAA COMPLIANT) (2) 1 3/4 X 9 1/4 LVL TO (3) 2X6 COLUMN SIMPSON CCQ46SDS2.5 (BABAA COMPLIANT)
- (2) 1 3/4 X 9 1/4 LVL TO (3) 2X6 COLUMN SIMPSON CCQ46SDS2.5 (BABAA COMPLIANT)
 (3) 1 3/4 X 9 1/4 LVL TO (3) 2X6 COLUMN SIMSPON CCQ66SDS2.5 (BABAA COMPLIANT)
- (2) 1 3/4 X 11 7/8 PSL TO 6X6 COLUMN GALV SIMSPON CCQ46SDS2.5 (BABAA COMPLIANT)

 ATTACH (3) 1 3/4 X 9 1/4 LVL BEAM TO (2) 1 3/4 X 9 1/4 LVL GIRDER WITH SIMPSON HHUS5.50/10
- (BABAA COMPLIANT) FACE MOUNT HANGER (OR EQUAL) (<u>@ SIM:</u> ATTACH (2) 1 3/4 X 9 1/4 LVL BEAM TO (2) 1 3/4 X 9 1/4 LVL GIRDER WITH SIMPSON HUS412 (BABAA COMPLIANT) FACE MOUNT HANGER (OR EQUAL).
- 11. EXISTING ROOF RAFTERS @ APPROXIMATELY 24" OC (FIELD VERIFY).
- 12. EXISTING BRACING FROM ROOF RAFTERS TO TOP OF WALL (FIELD VERIFY), TYP @ EA RAFTER.
- 13. PROVIDE NEW 2X BRACING FROM ROOF RAFTERS TO TOP OF NEW WALL ON EA SIDE OF NEW WALL (FIELD VERIFY MATCH EXIST) LEAVE EXIST BRACING IN PLACE.
- 14. PROVIDE THICKENED SLAB AT STAIR STRINGER (REF A1/S-001)
- 15. DEMOLISH EXISTING CHIMNEY. INFILL EXISTING OPENINGS IN FLOOR FRAMING WITH BLOCKING AND DECKING (MATCH EXISTING) AS REQUIRED. PROVIDE 2X6 FRAMING AT ROOF OPENING BETWEEN RAFTERS AS SHOWN ON PLAN TO SUPPORT NEW FALSE CHIMNEY (NO MASONRY). REFERENCE ARCHITECTURE FOR MORE INFORMATION.
- 6. PROVIDE BUILT-UP (2) 2X6 COLUMN TO SUPPORT LVL BEAM. ATTACH BUILT-UP COLUMN TO BEAM BELOW WITH SIMPSON CCQ44SDS2.5 (BABAA COMPLIANT) OR EQUAL.
- 17. 1 3/4 X 11 7/8 LVL STAIR STRINGERS @ 16" OC. ATTACH SIDE STRINGERS TO WALL FRAMING.
- 18. 2X8 STAIR LANDING JOISTS @ 16" OC. ATTACH JOISTS TO LVL BEAMS W/ SIMPSON LUS28 (BABAA COMPLIANT) FACE MOUNT HANGERS (OR EQUAL
- PROVIDE ADDITIONAL 2X (MATCH EXISTING) SISTERED TO RAFTER TIE/CEILING JOIST BETWEEN NEW LVL BEAMS.
- O. ATTACH (2) 1 3/4 X 11 7/8 PSL BEAM TO (2) 1 3/4 X 11 7/8 PSL GIRDER WITH SIMPSON HU412 (BABAA COMPLIANT) OR EQUAL FACE MOUNT HANGERS.
- 21. ATTACH (2) 1 3/4 X 11 7/8 PSL BEAM TO (2)2X12 PT LEDGER WITH SIMPSON HU412 (BABAA COMPLIANT) OR EQUAL FACE MOUNT HANGER.
- 22. ATTACH 2X10 PT JOISTS TO (2)2X12 PT LEDGER WITH SIMPSON LUS210 (BABAA COMPLIANT) OR EQUAL FACE MOUNT HANGERS.
 23. PROVIDE PRESSURE TREATED (2)2X12 LEDGER. ATTACH LEDGER TO EXISTING CONCRETE WALL
- WITH (2) ROWS 1/4" CONCRETE SCREWS (BABAA COMPLIANT) STAGGERED @ 12" OC. ATTACH DECK BEAMS TO LEDGER W/ (2) ROWS #10 WOOD SCREWS STAGGERED @ 12" OC.
- 24. PROVIDE PRESSURE TREATED (2)2X6 KNEE BRACES BETWEEN POST AND GIRDER.

NOTE: NOT ALL KEYNOTES MAY BE USED FOR EACH PLAN.

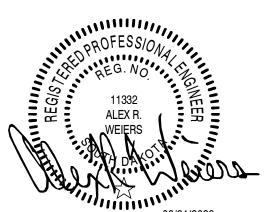
TSP

TSP, Inc. 600 Kansas City St. Rapid City, SD 57701

> (605) 343-6102 www.teamtsp.com

> > Architecture Engineering Planning

CONSULTANTS



DATE: 08/31/2023



SOUTH DAKOTA
DEPARTMENT OF THE
MILITARY
RENOVATE GENERALS
QUARTERS BUILDING
250

RC CAMP RAPID

ISSUES

DATE	DESCRIPTION	_ ୯
_	DRAWN BY KRC/ARW	- <u> </u> L
	CHECKED BY ARW	_ <u>_</u> _
	23	DRAWN BY KRC/ARW CHECKED BY

ROOF FRAMING PLAN

SHEET NUMBER

S-104

© TSP, Inc. 2022

ROOF FRAMING PLAN

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

10'-5" (+/-)

SIM C4

(2) 1 3/4 X 9 1/4

(2) 1 3/4 X 9 1/4 _{[1}

\S-501 /

VIS-501/

PROVIDE NEW CUT/CAST STONE LINTEL (MATCH EXISTING) FOR WIDENED DOOR OPENING (REF ARCH).

JAMB. HEADER TO BE DESIGNED FOR MAX

DEMO, SALVAGE, & REPLACE EXISTING BRICK

UNFACTORED LOADS OF:

AROUND OPENING AS REQUIRED.

SNOW/LIVE = 60 PLF

DEAD = 390 PLF

BEAR ON 6" OF SOLID GROUTED MASONRY AT EACH

(2) 1 3/4 X 9 1/4

C4

∖S-501 ⁄

22'-6 3/4" (+/-)

2

PLAN NORTH

TSP, Inc. 600 Kansas City St. Rapid City, SD 57701

> (605) 343-6102 www.teamtsp.com

> > Architecture Engineering Planning

CONSULTANTS



PROJECT TITLE

SOUTH DAKOTA DEPARTMENT OF THE MILITARY RENOVATE GENERALS QUARTERS BUILDING 250

RC CAMP RAPID

ISSUES

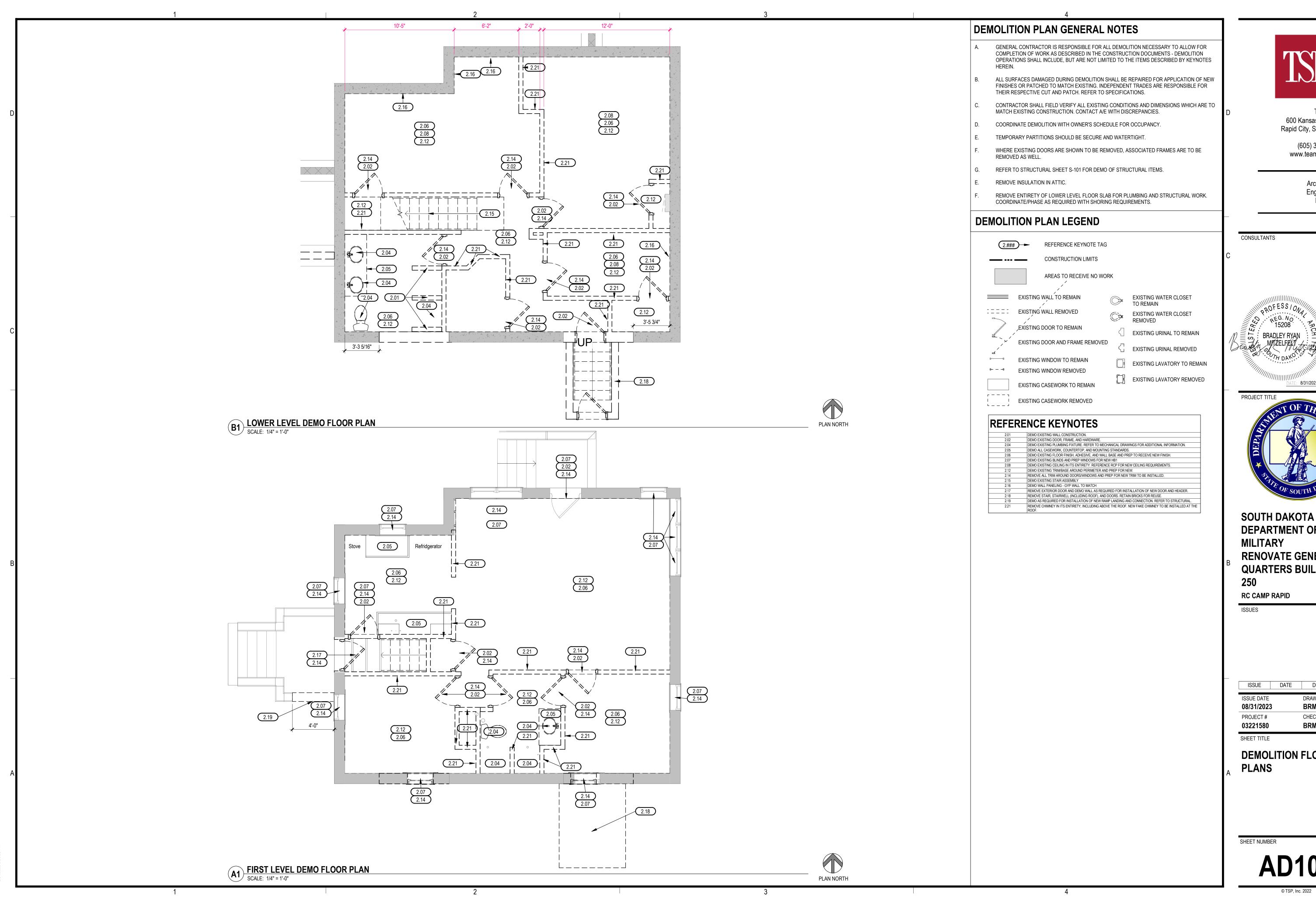
			(0
ISSUE	DATE	DESCRIPTION	
ISSUE DATE		DRAWN BY	-
08/31/2023	3	KRC/ARW	Ш
PROJECT#		CHECKED BY	-
03221580		ARW	\supset
SHEET TITLE			$- \odot$

STRUCTURAL DETAILS

SHEET NUMBER

© TSP, Inc. 2022

00% CONSTRUCTION

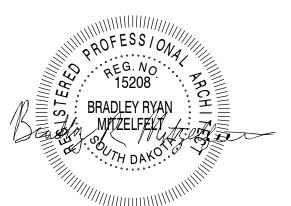




> (605) 343-6102 www.teamtsp.com

> > Architecture Engineering

> > > Planning

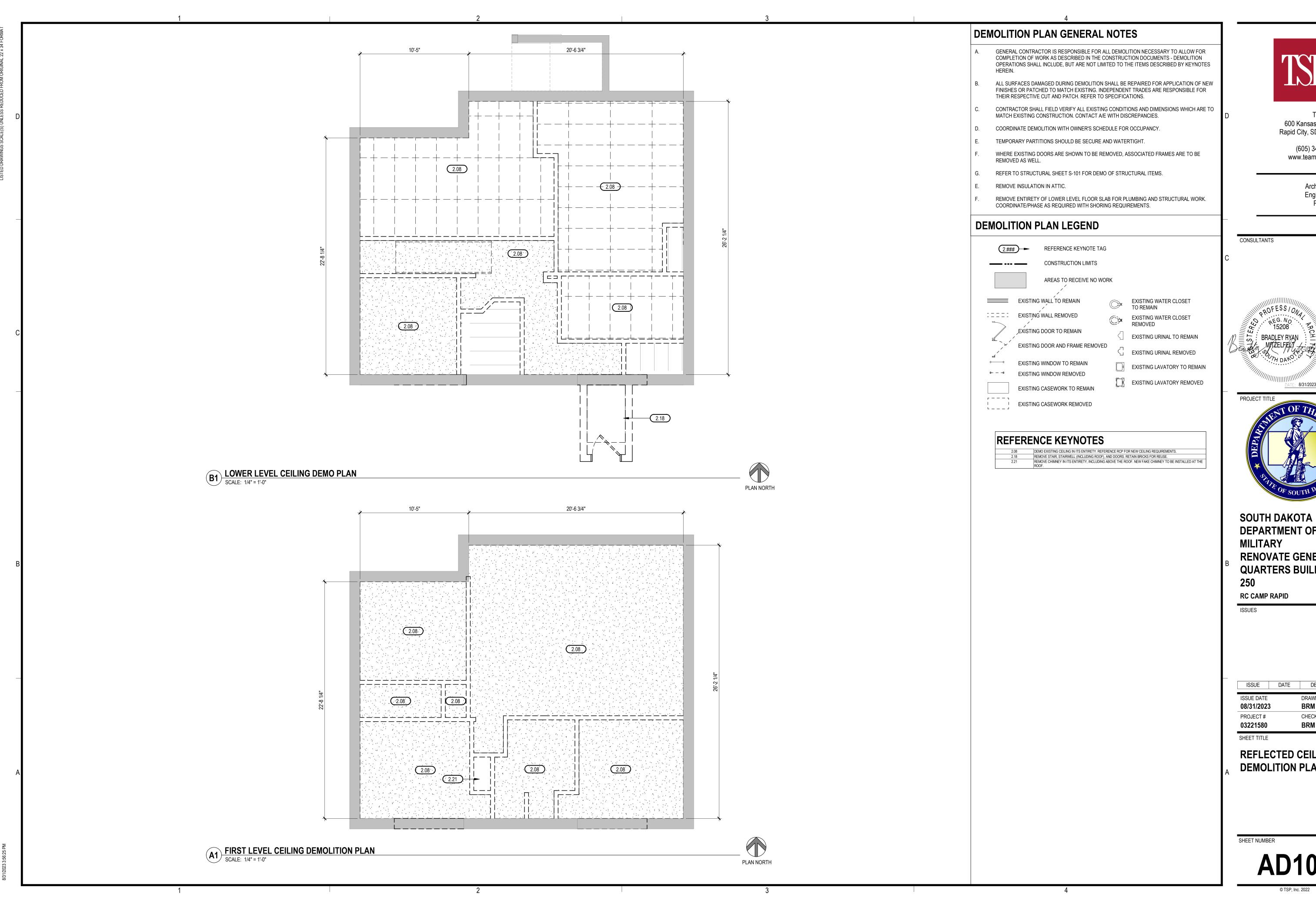


8/31/2023

DEPARTMENT OF THE MILITARY RENOVATE GENERALS QUARTERS BUILDING

				_ (
	ISSUE	DATE	DESCRIPTION	_ ۲
1				
	ISSUE DATE		DRAWN BY	_
08/31/2023		3	BRM	
PROJECT#			CHECKED BY	_
	03221580		BRM	=
	SHEET TITLE			- >

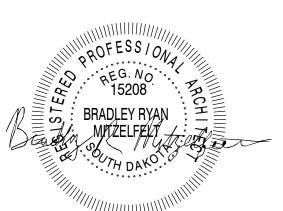
DEMOLITION FLOOR





> (605) 343-6102 www.teamtsp.com

> > Architecture Engineering



8/31/2023

DEPARTMENT OF THE MILITARY RENOVATE GENERALS **QUARTERS BUILDING**

ISSUE	DATE	DESCRIPTION	
ISSUE DATE 08/31/2023		DRAWN BY BRM	
PROJECT # 03221580		CHECKED BY BRM	_ N
		CEILING PLANS	NSTRUCTION DOC
SHEET NUMBER		102	OO %001

- PROVIDE BLOCKING AT PARTITIONS AS REQUIRED FOR MOUNTING OF FURNISHED AND NON-
- ALIGN FINISHED FACE OF CONTINUOUS PARTITIONS THAT CHANGE PARTITION TYPES ALONG A
- EDGE OF INTERIOR DOOR FRAMES TO BE 4" FROM ADJACENT WALL (6" FROM DOOR PANEL TO

= TOILET ACCESSORIES. SEE SCHEDULE FE = WALL MOUNTED FIRE EXTINGUISHER FEC = FIRE EXTINGUISHER CABINET

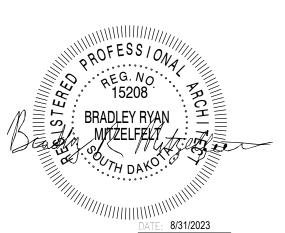
	CONCRETE RAMP W/TREX GUARDRAIL AND HANDRAIL SYSTEM. CONFIRM EXACT LENGTH REQUIRED IN FIE SLOPE 1:12 WITH MAX 30'-0" RUN
99.06	TREX TRANSCEND LINEAGE COMPOSITE DECKING.
99.05	TREX TRANSCEND RAILING SYSTEM.

600 Kansas City St. Rapid City, SD 57701

> (605) 343-6102 www.teamtsp.com

> > Architecture Engineering Planning

CONSULTANTS





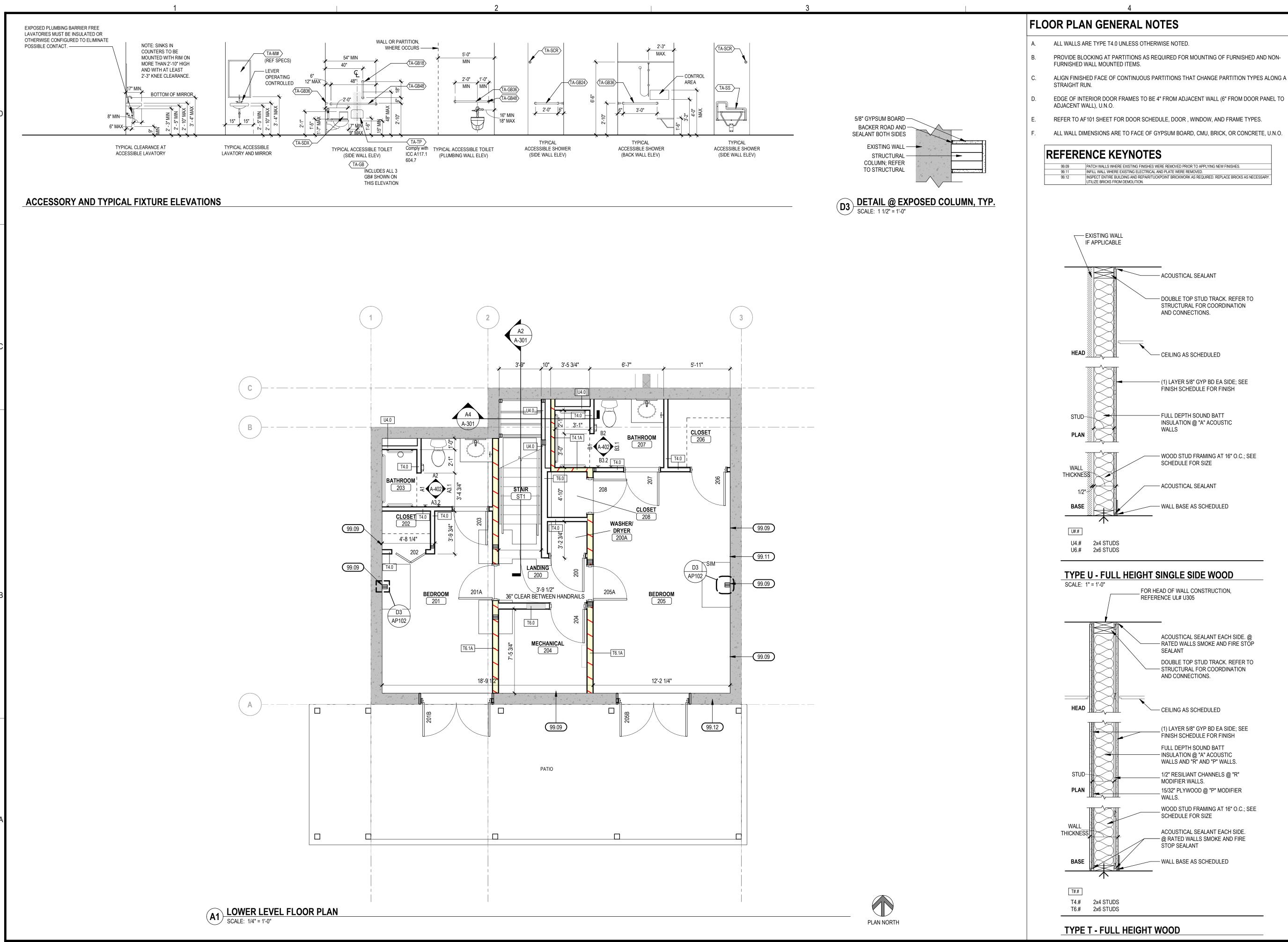
SOUTH DAKOTA **DEPARTMENT OF THE MILITARY RENOVATE GENERALS QUARTERS BUILDING**

RC CAMP RAPID

ISSUES

ISSUE	DATE	DESCRIPTION	_ ບ
ISSUE DATE		DRAWN BY	_
08/31/2023	3	BRM	
PROJECT#		CHECKED BY	_
03221580		BRM	_ =
SHEET TITLE			- >

FIRST LEVEL FLOOR **PLAN**



ALL WALLS ARE TYPE T4.0 UNLESS OTHERWISE NOTED. PROVIDE BLOCKING AT PARTITIONS AS REQUIRED FOR MOUNTING OF FURNISHED AND NON-ALIGN FINISHED FACE OF CONTINUOUS PARTITIONS THAT CHANGE PARTITION TYPES ALONG A

- ACOUSTICAL SEALANT

AND CONNECTIONS.

- CEILING AS SCHEDULED

- FULL DEPTH SOUND BATT

SCHEDULE FOR SIZE

- ACOUSTICAL SEALANT

— WALL BASE AS SCHEDULED

WALLS

INSULATION @ "A" ACOUSTIC

- DOUBLE TOP STUD TRACK. REFER TO STRUCTURAL FOR COORDINATION

- (1) LAYER 5/8" GYP BD EA SIDE; SEE FINISH SCHEDULE FOR FINISH

- WOOD STUD FRAMING AT 16" O.C.; SEE

ACOUSTICAL SEALANT EACH SIDE. @
— RATED WALLS SMOKE AND FIRE STOP

DOUBLE TOP STUD TRACK. REFER TO — STRUCTURAL FOR COORDINATION

(1) LAYER 5/8" GYP BD EA SIDE; SEE FINISH SCHEDULE FOR FINISH

SEALANT

AND CONNECTIONS.

- CEILING AS SCHEDULED

FULL DEPTH SOUND BATT

MODIFIER WALLS.

STOP SEALANT

- INSULATION @ "A" ACOUSTIC

WALLS AND "R" AND "P" WALLS.

1/2" RESILIANT CHANNELS @ "R"

15/32" PLYWOOD @ "P" MODIFIER

ACOUSTICAL SEALANT EACH SIDE.

- @ RATED WALLS SMOKE AND FIRE

WALL BASE AS SCHEDULED

_ WOOD STUD FRAMING AT 16" O.C.; SEE SCHEDULE FOR SIZE

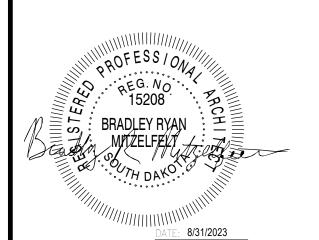
600 Kansas City St.

(605) 343-6102 www.teamtsp.com

Rapid City, SD 57701

Architecture Engineering Planning

CONSULTANTS



SOUTH DAKOTA DEPARTMENT OF THE MILITARY RENOVATE GENERALS QUARTERS BUILDING

RC CAMP RAPID

ISSUES

ISSUE DATE DESCRIPTION ISSUE DATE DRAWN BY BRM 08/31/2023 PROJECT# CHECKED BY 03221580

LOWER LEVEL FLOOR PLAN

SHEET NUMBER

SHEET TITLE

© TSP, Inc. 2022

00% CONSTRUCTION

> (605) 343-6102 www.teamtsp.com

> > Architecture Engineering

CONSULTANTS

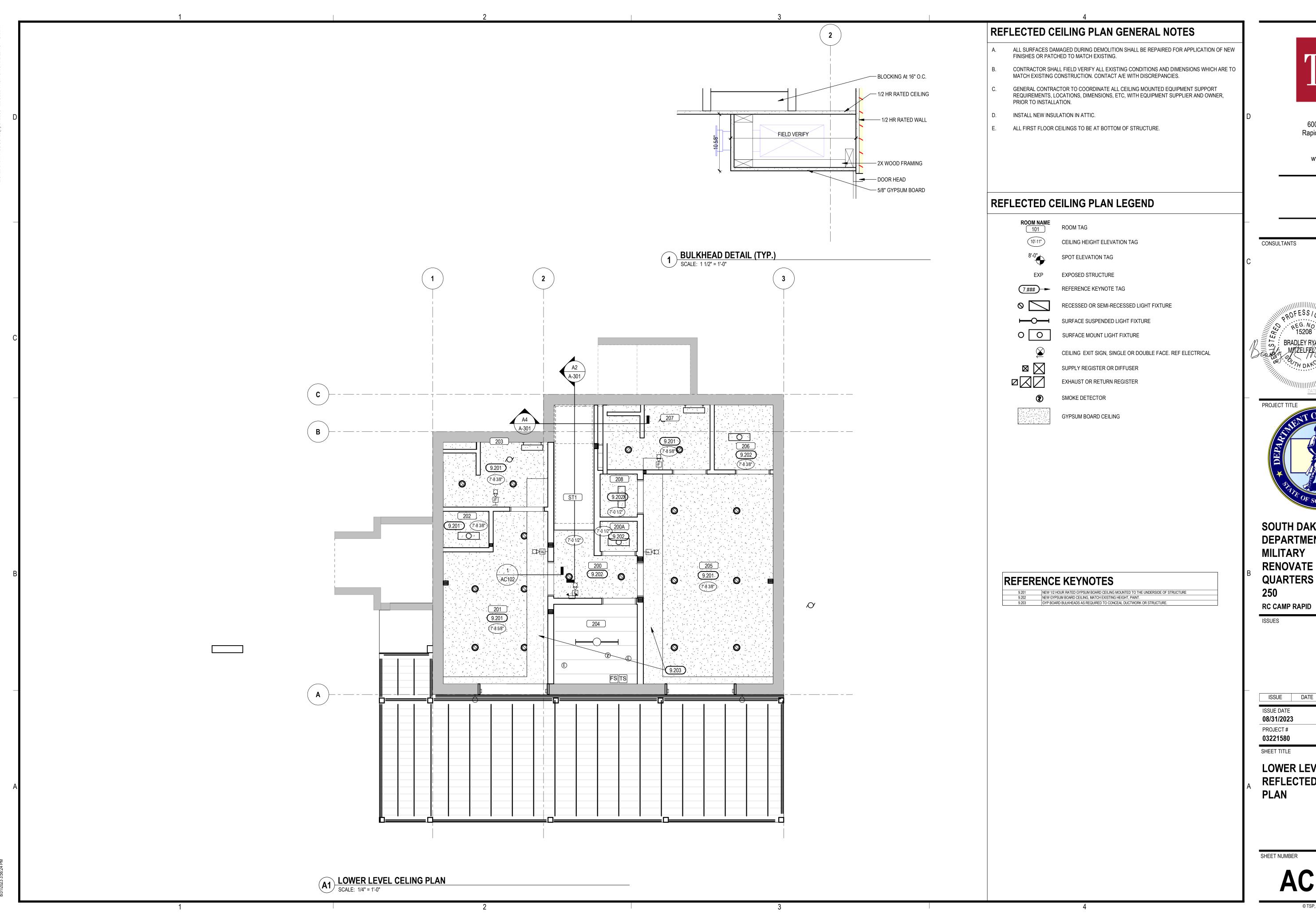


SOUTH DAKOTA **DEPARTMENT OF THE MILITARY** RENOVATE GENERALS **QUARTERS BUILDING**

RC CAMP RAPID

ISSUES

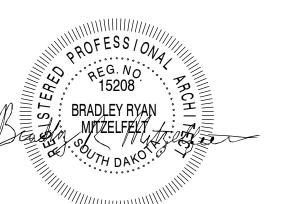
ISSUE	DATE	DESCRIPTION	$\neg S$
ISSUE DATE		DRAWN BY	
08/31/2023		BRM	_₩
PROJECT # 03221580		CHECKED BY BRM	
		DIVIAI	
SHEET TITLE			O
FIRST L REFLEC PLAN		CEILING	I NSTRUCTION [
SHEET NUMBE		101	100% CO



> (605) 343-6102 www.teamtsp.com

> > Architecture Engineering Planning

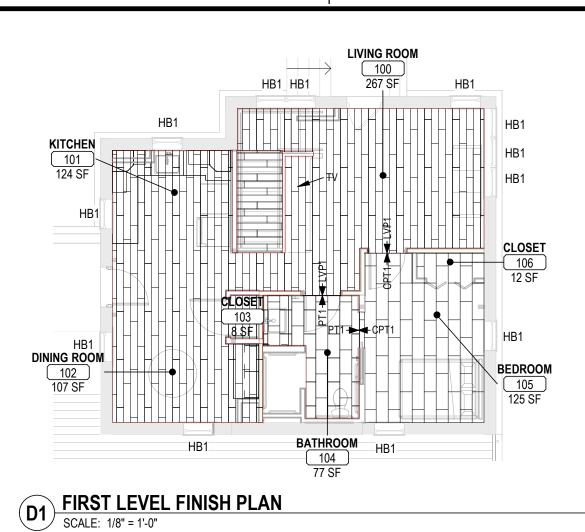
CONSULTANTS

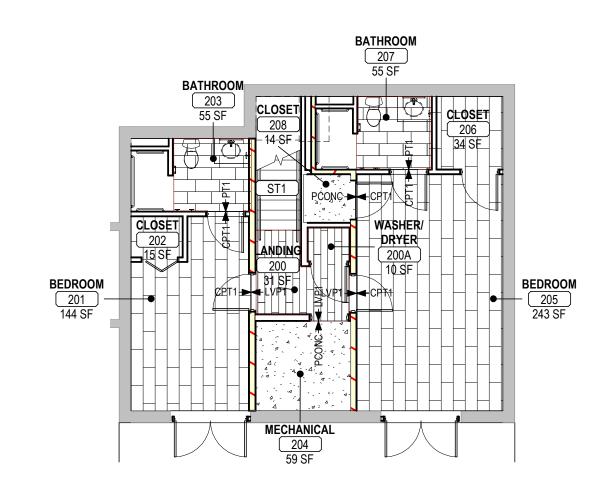


8/31/2023

SOUTH DAKOTA **DEPARTMENT OF THE MILITARY** RENOVATE GENERALS **QUARTERS BUILDING**

ISSUE	DATE	DESCRIPTION	
ISSUE DATE 08/31/2023	}	DRAWN BY BRM	EN-
PROJECT # 03221580		CHECKED BY BRM	
LOWER REFLE PLAN		EL	NSTRUCTION DOCU
SHEET NUMBE	ER		





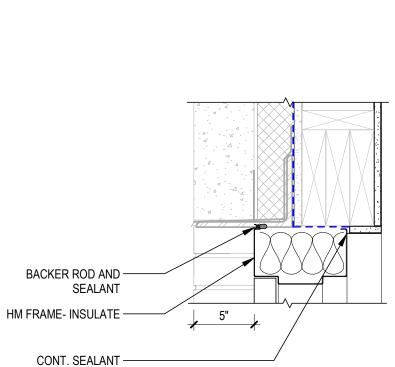
C1 LOWER LEVEL FINISH PLAN
SCALE: 1/8" = 1'-0"

GENERAL FRAME NOTES: 1. SEE DOOR SCHEDULE FOR DOOR FRAME FINISH 2. SEE DOOR SCHEDULE FOR GLAZING TYPE, U.N.O. 3. ANY/ALL DOORS ARE TO BE INSTALLED AS PER MANUFACTURER'S STANDARDS, DETAILS & INSTRUCTIONS	
4. SEE SPECIFICATIONS FOR ANY/ALL ADDITIONAL DOOR & FRAME INFORMATION 2" SEE 2" 4" SEE 4" SCHED.	
HEDULE	BACKER ROD AND SEALANT HM FRAME- INSULATE 5"

_	SEE 8	SEE (CONT. SEALANT	
					1 DOOR - EXT HM HEAD - MTL STUD/BR SCALE: 1 1/2" = 1'-0"	ICK
	<u>+</u> □ F1	□ \ F3			DOOR AS SCHEDULED	
					BACKER ROD AND SEALANT	
		F9 F9	AL BLIND —		WRAP BRICK @ JAMBS	\
Α						1
			MATCH EXISTING		HM FRAME W/ (3) ANCHORS PER JAMB MIN. INSULATE	
	F	FG	G	В	CONT. SEALANT	
	FLUSH	FULL GLASS LITE	HALF GLASS LITE	BI-FOLD		017

MATCH EXISTING

DESIGN



SCALE: 1 1/2" = 1'-0"	
DOOR AS SCHEDULED -	
BACKER ROD AND - SEALANT	
WRAP BRICK @ - JAMBS	

CONT. SEALANT -DOOR - EXT HM JAMB - WD STUD/BRICK SCALE: 1 1/2" = 1'-0"

	FINISH KEY						
SPEC SECTION	CODE	DESCRIPTION	MANUFACTURER	PATTERN	COLOR	NUMBERS	COMMENTS
06 20 23	WB	WOOD BASE INTERIOR TRIM	MASTERCRAFT	PINE	UNFINISHED	4172845	TO BE STAINED BY MIXWAX MULBERRY, SIZE 5 1/4" WIDE
06 41 13	WCC1	CABINETRY	WOODLAND	DOOR STYLE: TAYLOR WOOD SPECIES: MDF	PAINT: WHITE		KITCHEN & DINING
06 41 13	WCC2	CABINETRY	WOODLAND	DOOR STYLE: TAYLOR WOOD SPECIES: RUSTIC HICKORY	STAIN: SPICE		BATHROOM VANITIES
09 30 13	PT1	TILE	RAGNOUSA	PORCELIAN FLOOR TILE	ALPINE WHITE	AL45	12" X 24"
09 30 13	CT2	TILE	MILESTONE	CERAMIC TILE GLAZED	BALANCE	1102528	3 " X 12" GLOSSY SHOWER WALL TILE & BATHROOM VANITY BACK WALL TILE
09 65 13	RSTA	RUBBER STAIR TREAD NOSING	MANNINGTON COMMERCIAL	575 OVERLAP STAIR NOSING	LIGHT BEIGE	206	
09 65 19	LVP1	LVP FLOORING	MANNINGTON COMMERCIAL	SPACIA WOOD	WINDSOR OAK GOLDEN	SS5W12386	6" X 36"
09 68 13	CPT1	CARPET	MOHAWK GROUP	DIGITAL TERRAIN	SULPHER	GT341	INSTALLATION METHOD: BRICK ASHLAR 12" X 36" TUFTED
09 91 23	P1	PAINT - OVERALL	DIAMOND VOGEL		SANDSTONE PALETTE	0273	EGGSHELL SHEEN
09 91 23	P2	PAINT - CEILINGS	DIAMOND VOGEL		DOVE WHITE	0018	FLAT SHEEN
09 91 23	P3	PAINT - ACCENT	DIAMOND VOGEL		ATLANTIC WAVES	0473	EGGSHELL SHEEN
09 93 00	ST	STAIN	MINWAX		MULBERRY	MW 473	STAIN WILL BE APPLIED TO ALL WINDOW TRIM, DOOR TRIM, HANDRAILS AND BASE THROUGHOUT ENTIRE BUILDING.
12 21 13	HB1	BLINDS	HUNTER DOUGLAS	APPLAUSE CELLULAR SHADES	GELATO	E26-772	CORDLESS BLINDS TO BE INSTALLED IN ALL WINDOWS. DIMENSIONS TO BE VERIFED IN FIELD.
12 36 61.16	SSM1	SOLID SURFACE COUNTERTOP	CORIAN SOLID SURFACE		SANDALWOOD		KITCHEN COUNTERTOP & KITCHEN FULL HEIGHT BACKSPLASH
12 36 61.16	SSM2	SOLID SURFACE COUNTERTOP	CORIAN SOLID SURFACE		VENARO WHITE		COUNTERTOP FOR ALL BATHROOM - NO BACKSPLASH

	ROOM FINISH SCHEDULE										
						1	WALLS		CAS	EWORK	
ROOM#	ROOM NAME	FLOOR	BASE	CEILING	NORTH	EAST	SOUTH	WEST	CABINET	COUNTER	REMARKS
100	LIVING ROOM	LVP1	WB	P2	P1	P1	P3	P1			
101	KITCHEN	LVP1	WB	P2	P1	P3		P1	WCC1	SSM1	FULL HEIGHT BACKSPLASH
102	DINING ROOM	LVP1	WB	P2		P3	P1	P1	WCC1	SSM1	FULL HEIGHT BACKSPLASH
103	CLOSET	LVP1	WB	P2	P1	P1	P1	P1			
104	BATHROOM	PT1	WB	P2	P3	P1	P1/P3	CT2	WCC2	SSM2	NO BACKSPLASH OR SIDESPLASH FROM COUNTERTOP
105	BEDROOM	CPT1	WB	P2	P1	P3	P1	P1			
106	CLOSET	CPT1	WB	P2	P1	P1	P1	P1			
200	LANDING	LVP1	WB	P2	P1	P1	P1	P1			
200A	WASHER/ DRYER	LVP1	WB	P2	P1	P1	P1	P1			
201	BEDROOM	CPT1	WB	P2	P1	P1	P1	P3			
202	CLOSET	CPT1	WB	P2	P1	P1	P1	P1			
203	BATHROOM	PT1	WB	P2	CT2/P1	P3	P1	CT2/P3	WCC2	SSM2	NO BACKSPLASH OR SIDESPLASH FROM COUNTERTOP
204	MECHANICAL	PCONC	WB	P2	P1	P1	P1	P1			
205	BEDROOM	CPT1	WB	P2	P1	P3	P1	P1			
206	CLOSET	CPT1	WB	P2	P1	P1	P1	P1			
207	BATHROOM	PT1	WB	P2	CT2/P1	P3	P1	CT2/P3	WCC2	SSM2	NO BACKSPLASH OR SIDESPLASH FROM COUNTERTOP
208	CLOSET	PCONC	WB	P2	P1	P1	P1	P1			
ST1	STAIR	LVP1/ RSTA	WB	P2	P1	P1	P1	P1			

DOOR SCHEDULE										
		DOC	R			FRAME				
DOOR NO.	WIDTH X HEIGHT	TYPE	MATERIAL	GLAZING	TYPE	MATERIAL	GLAZING	RATING	HDWR	COMMENTS
101	3'-0" x 6'-8"	G	HM	GL3.1 FT	F3	HM	-	-		INTEGRAL BLIND
103	3'-0" x 6'-8"	F	WD	-	F1	WD	-	-		
104	3'-0" x 6'-8"	F	WD	-	F1	WD	-	45MIN		
105A	3'-0" x 6'-8"	F	WD	-	F1	WD	-	45MIN		
105B	3'-0" x 6'-8"	F	WD	-	F1	WD	-	-		POCKET DOOR
106	4'-0" x 6'-8"	В	WD	-	F1	WD	-	-		4 PANELS
200	3'-0" x 6'-8"	F	WD	-	F1	WD	-	-		
201A	3'-0" x 6'-8"	F	WD	-	F1	WD	-	45MIN		
201B	6'-0" x 6'-8"	FG	HM	GL3.1 FT	F3	HM	-		1	INTEGRAL BLIND
202	3'-0" x 6'-8"	В	WD	-	F1	WD	-	-		2 PANELS
203	3'-0" x 6'-8"	F	WD	-	F1	WD	-	-		
204	3'-0" x 6'-8"	F	WD	-	F1	WD	-	-		
205A	3'-0" x 6'-8"	F	WD	-	F1	WD	-	45MIN		
205B	6'-0" x 6'-8"	FG	HM	GL3.1 FT	F3	HM	-	-	1	INTEGRAL BLIND
206	3'-0" x 6'-8"	F	WD	-	F1	WD	-	-		
207	3'-0" x 6'-8"	F	WD	-	F1	WD	-	-		
208	3'-0" x 6'-8"	F	WD	-	F1	WD	-	45MIN		

L GLASS TO BE HEAT STRENGTHENED UNLESS DESIGNATED AS "FT" SUFFIX
ULLY TEMPERED)

FINISH PLAN GENERAL NOTES

- A. CLEAN ALL EXPOSED SURFACES PRIOR TO PRIMING AND PAINTING. PAINT ALL EXPOSED DUCTWORK, STRUCTURE, CONDUIT, ELECTRICAL BOXES, AND SIMILAR,
- C. PAINT ALL EXPOSED CMU AND GYP BD, U.N.O.
- SEE REFLECTED CEILING PLANS FOR SOFFIT LOCATIONS AND HEIGHTS
- PROVIDE APPROPRIATE FLOORING TRANSITION TYPE. (CENTER UNDER DOOR AT DOOR LOCATIONS)

FINISH PLAN LEGEND

ROOM NAME ROOM TAG CPT1-► CPT2 FINISH TRANSITION CPT1 → 7.### REFERENCE KEYNOTE TAG LVP1 HORIZONTAL LAY PATTERN LVP1 VERTICAL LAY PATTERN CPT1

PCONC

DOOR SCHEDULE ABBREVIATIONS

ALUMINUM **EXISTING** HOLLOW METAL INSULATED HOLLOW METAL WOOD STAINLESS STEEL

ROOM FINISH SCHEDULE GENERAL NOTES

A. PAINT ALL EXPOSED STRUCTURE. U.N.O.

ROOM FINISH SCHEDULE REMARKS

- PROVIDE FLOORING TRANSITIONS AT EVERY CHANGE OF MATERIAL. TRANSITIONS SHOULD OCCUR UNDER THE CENTER OF THE DOOR. FLOORING TRANSITIONS:
- SHEET VINYL / LUXURY VINYL PLANK OR TILE: BUTT JOINT RESILIENT FLOORING / CARPET TILE: SCHLUTER SCHIENE STAINLESS STEEL RESILIENT FLOORING / CONCRETE: SCHLUTER RENO RAMP STAINLESS STEEL RESILIENT FLOORING / PORCELAIN TILE: SCHLUTER SCHIENE STAINLESS STEEL PORCELAIN WALL TILE OUTSIDE CORNERS: SCHLUTER QUADEC STAINLESS STEEL
- EXPOSED EDGE OF WALL TILE: SCHLUTER JOLLY STAINLESS STEEL PORCELAIN TILE / WALL TILE: SCHLUTER DILEX STAINLESS STEEL WALL TILE, INSIDE OR OUTSIDE CORNER WHERE CHANGING FROM ONE TILE SIZE TO ANOTHER AND THE HORIZONTAL GROUT JOINTS WILL NOT LINE UP:
- INSIDE CORNERS: SCHLUTER DILEX STAINLESS STEEL OUTSIDE CORNERS: SCHLUTER QUADEC STAINLESS STEEL FLOAT UP VINYL TO BE FLUSH WITH TRANSITION STRIP
- INTEGRAL COVE SHEET VINYL: HEAT WELD TO MATCH SPECKLE, 6" HIGH INTEGRAL BASE WITH BONDED STAINLESS STEEL CAP, PUNCTURE PROOF ALUMINUM COVE REINFORCEMENT. 1. CG: CORNER GUARD, PROVIDE ON ALL OUTSIDE CORNERS
- WP: VINYL WALL PROTECTION COUNTERTOPS: COUNTERTOPS WITHOUT SINKS: 1-1/8" THICK PLASTIC LAMINATE WITH 3MM
- EDGES AND INTEGRAL BACKSPLASH.
 COUNTERTOPS WITH SINKS: 1-1/2" THICK PLASTIC LAMINATE WITH DOUBLE BULLNOSE (R-1/4" TOP AND BOTTOM) RETURN LAMINATE 1" UNDER COUNTERTOP, INTEGRAL BACKSPLASH.
- ALL COUNTERTOPS TO HAVE 1-1/2" RADIUS ON ALL OUTSIDE CORNERS. SOLID SURFACE COUNTERTOPS TO BE 1-1/2" THICK WITH EASED EDGES.

STANDARD INTERIOR ABBREVIATIONS

APC AWP ACOUSTICAL PANEL CEILING ACOUSTICAL WALL PANEL **BCMU** BURNISHED CONCRETE MASONRY UNIT CG CMU CORNER GUARD CONCRETE MASONRY UNIT CONC CONCRETE

CARPET CERAMIC TILE DECORATIVE CONCRETE MASONRY UNITS DCMU **EPOXY PAINT**

EPOXY FLOORING FIBERGLASS REINFORCED PANEL GLT **GLASS TILE** GROUT

GYPSUM WALL BOARD LUXURY VINYL TILE METAL BASE METAL PANEL CEILING POLISHED CONCRETE PLASTIC LAMINATE **PCONC** PLAM

PORCELAIN TILE PTB PORCELAIN TILE BASE QUARRY TILE QTB QUARRY TILE BASE RESILIANT ATHLETIC FLOORING RUBBER FLOORING RBRT RUBBER TILE FLOORING

RBRS RUBBER SHEET FLOORING RSTA RUBBER STAIR TREAD / NOSING RESINOUS PANEL SCONC SEALED CONCRETE

SCMU SSM SPLITFACED CONCRETE MASORY UNIT SOLID SURFACE MATERIAL STAIN STCONC SVF STAINED CONCRETE SHEET VINYL FLOORING TER TERRAZZO

RESILIANT BASE VINYL COMPOSITION TILE VINYL WALL COVERING WOOD BASE WALK-OFF CARPET TILE WCPT WALL PROTECTION

600 Kansas City St. Rapid City, SD 57701

(605) 343-6102 www.teamtsp.com

> Architecture Engineering

CONSULTANTS





SOUTH DAKOTA DEPARTMENT OF THE MILITARY RENOVATE GENERALS QUARTERS BUILDING

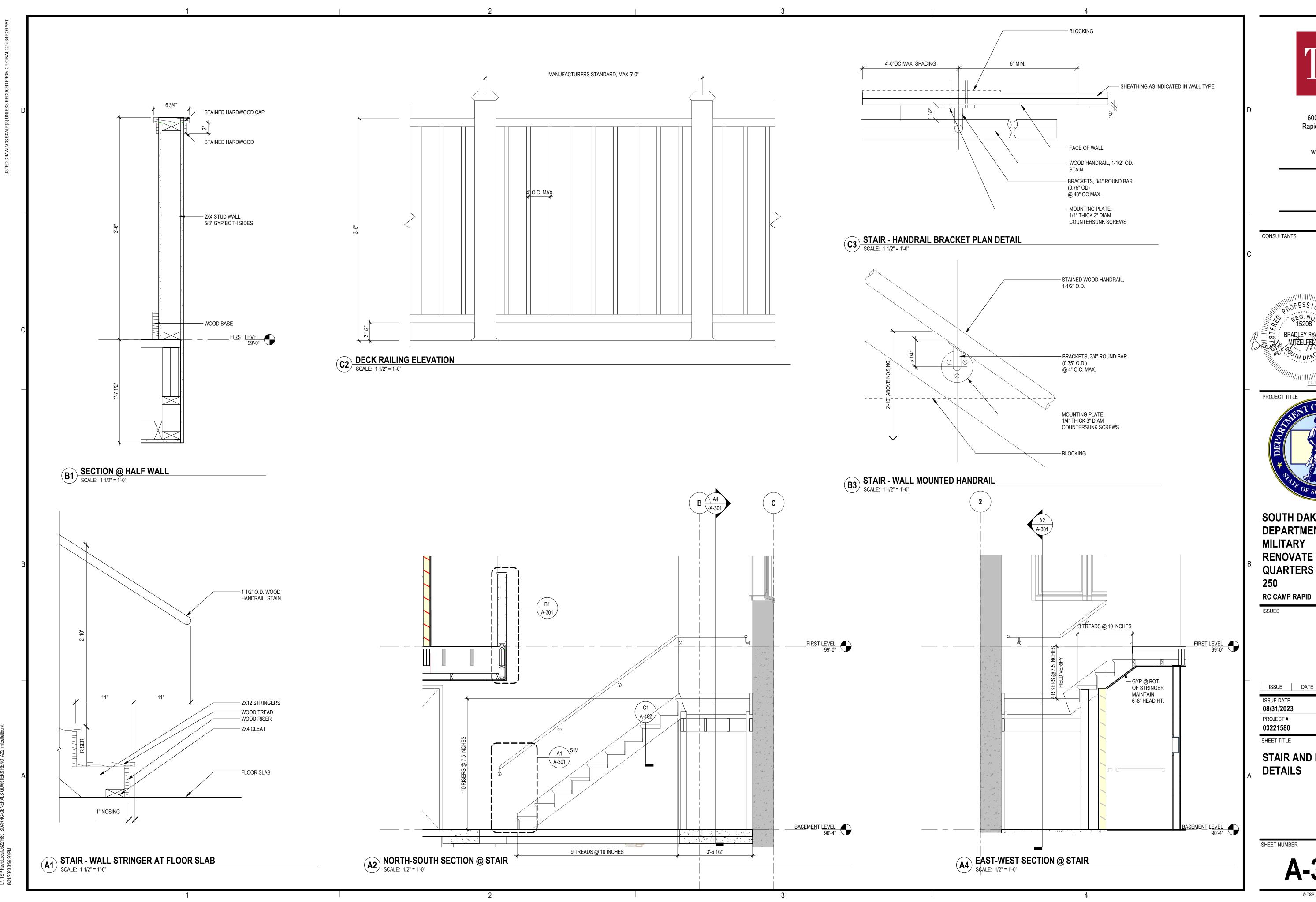
RC CAMP RAPID

ISSUES

ISSUE	DATE	DESCRIPTION	S
ISSUE DATE 08/31/202 3	3	DRAWN BY MPP	
PROJECT # 03221580		CHECKED BY BRM	 COM
SHEET TITLE			
	FLOOI CHEDU	R PLAN ILES	I NSTRUCTION [
SHEET NUMB	ER		-00

© TSP, Inc. 2022

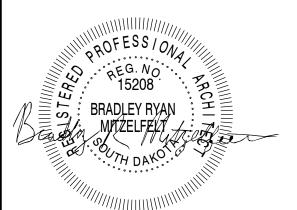
WOOD PANEL CEILING WALL GUARD





> (605) 343-6102 www.teamtsp.com

> > Architecture Engineering Planning



8/31/2023

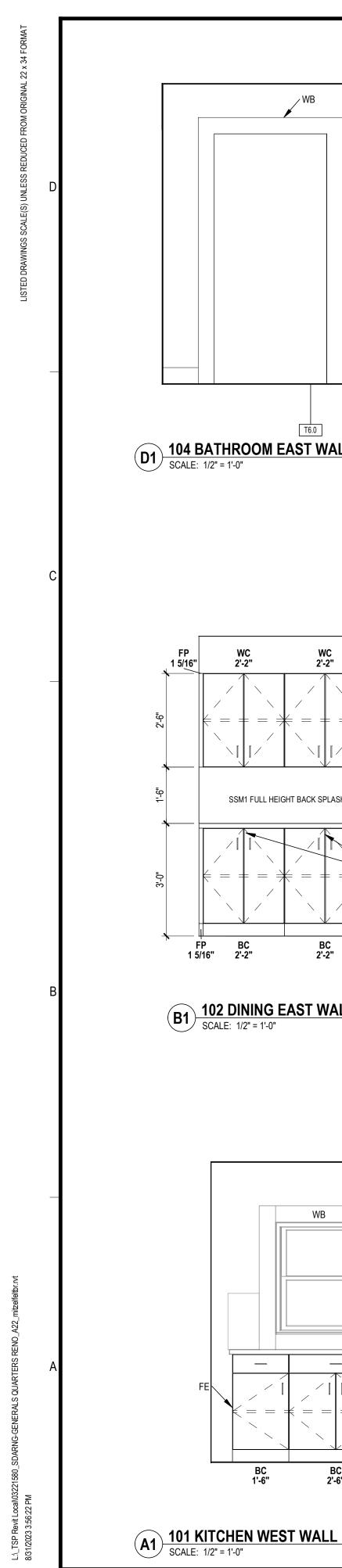
SOUTH DAKOTA **DEPARTMENT OF THE MILITARY** RENOVATE GENERALS **QUARTERS BUILDING**

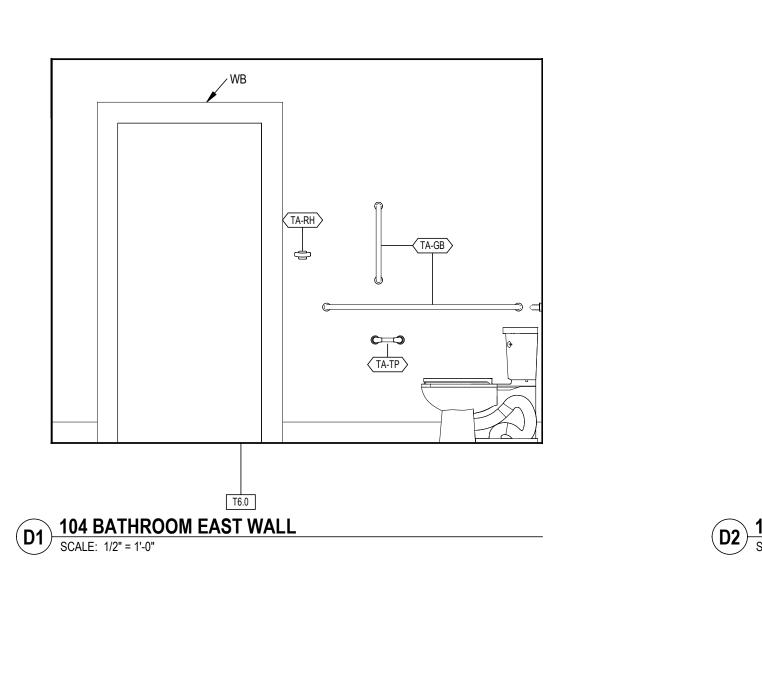
ISSUE	DATE	DESCRIPTION	_ <u>Υ</u>
ISSUE DATE 08/31/2023	}	DRAWN BY BRM	
PROJECT # 03221580		CHECKED BY BRM	_ ⊃
SHEET TITLE		Ditiii	<u>–</u> ට

STAIR AND DECK

© TSP, Inc. 2022

100% CONSTRUCTION D

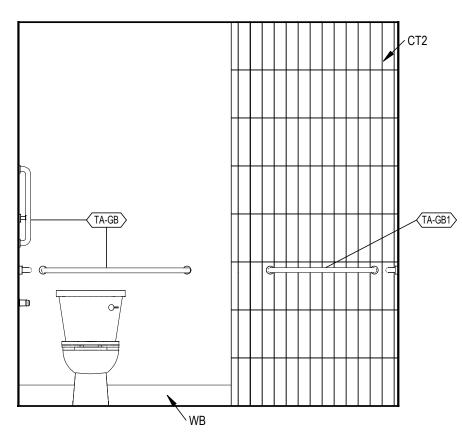




SSM1

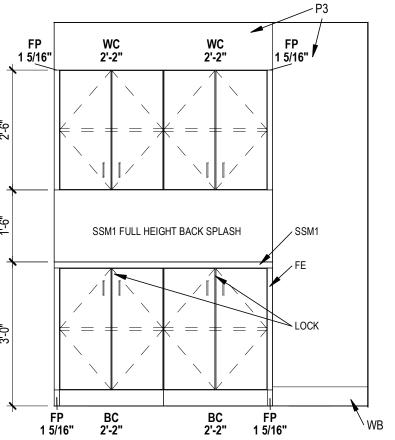
FILLER

BC 2'-6"

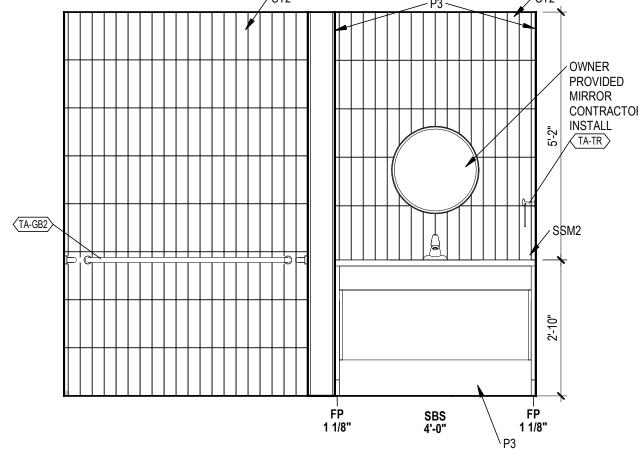


D2 104 BATHROOM SOUTH WALL

SCALE: 1/2" = 1'-0"

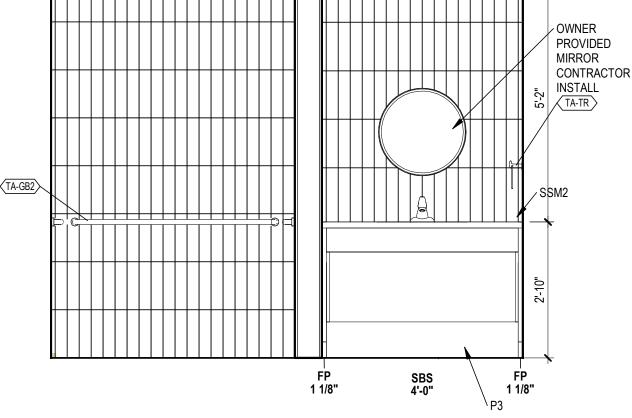


B1 102 DINING EAST WALL
SCALE: 1/2" = 1'-0"



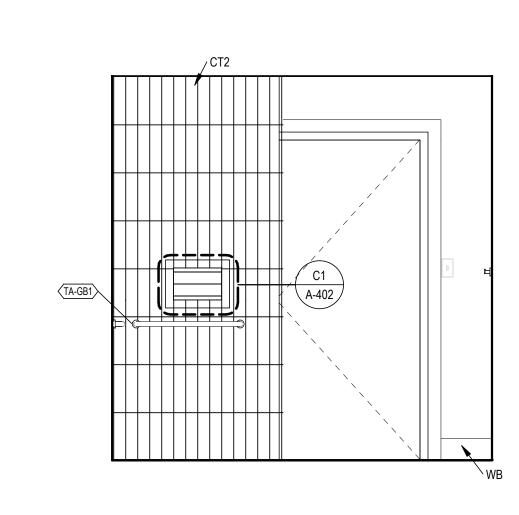
B2 104 BATHROOM WEST WALL

SCALE: 1/2" = 1'-0"



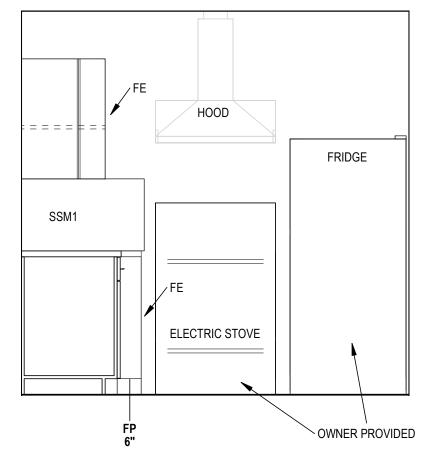
CWC 1'-9" WC 1'-9" CWC 1'-9" WC 1'-0" WB SSM1 FP BC 2 1/4" 1'-0" FE P1 SBS FE / 2'-9"

A2 SCALE: 1/2" = 1'-0"



B3 104 BATHROOM NORTH WALL

SCALE: 1/2" = 1'-0"



A3 SCALE: 1/2" = 1'-0"

ENLARGED PLAN AND INT ELEV GENERAL NOTES

- ALIGN FINISHED FACE OF CONTINUOUS PARTITIONS THAT CHANGE PARTITION TYPES ALONG A STRAIGHT RUN.
- B. EDGE OF INTERIOR DOOR FRAMES TO BE 4" FROM ADJACENT WALL, U.N.O.
- ALL WALL DIMENSIONS ARE TO FACE OF GYPSUM BOARD, CMU, BRICK, OR CONCRETE; U.N.O.
- SEE BUILDING ACCESSORY AND INTERIOR ELEVATION LEGENDS ON SHEET A-400 FOR ADDITIONAL INFORMATION.
- ASSUME PLASTIC LAMINATE FILLER AT END OF ALL CASEWORK ADJACENT TO A WALL.
- G. ALL WALL CABINETS AND TALL CABINETS WILL HAVE SLOPED TOPS U.N.O.
- H. COORDINATE GROMMET LOCATION WITH OWNER.

D. 25 1/2" DEEP PLASTIC LAMINATE COUNTERTOP U.N.O.

- CABINET DEPTH (NOT INCLUDING DOORS) U.N.O. WALL CABINET BASE CABINET

Architecture Engineering INTERIOR TRIM AROUND ALL DOORS AND WINDOWS. DIMENSIONS = 5 1/4" WIDE OVERALL.

CABINET KEY

GUIDE TO INTERIOR ELEVATION CASEWORK TAG DESCRIPTIONS INDICATES UNIT TYPE ----WC
3'-0" INDICATES UNIT WIDTH INDICATES UNIT DEPTH ----—**→** 1'-6"D (OTHER THAN STANDARD)

WALL CABINETS

WC 2'-2"	CWC 1'-9"	WC 1'-9"
ALL CABINET / HINGED OORS AND DJUSTABLE HELF	CORNER WALL CABINET W/ HINGED DOORS AND ADJUSTABLE SHELF	SINGLE WAL CABINET W/ HINGED DOO AND ADJUSTABLE SHELF

BASE CA	BINET	S			MISC.
BASE CABINET W/ HINGED DOORS AND ADJUSTABLE SHELF		SINK CABINET W/ HINGED DOORS AND ADJUSTABLE SHELF _ _	BASE CABINET W/ HINGED DOORS	ADA SHROUD SINK BASE	FILLER PANEL
(====)					
BC 2'-6"	BC 2'-6"	SB 2'-6"	BC 2'-6"	SBS 2'-6"	FP 1/2"

TOILET ACCESSORY SCHEDULE

MARK	DECSRIPTION	FURNISH/ INSTALL	COMMENTS
WAKK	DECSRIPTION	INSTALL	COMMENTS
TA-GB	GRAB BAR SET OF THREE	CFCI	MAIN LEVEL BATHROOM ONLY
TA-GB1	26 INCH ADA COMPLIANT GRAB BAR	CFCI	ALL BATHROOMS
TA-GB2	50 INCH ADA COMPLIANT GRAB BAR	CFCI	ALL BATHROOMS
TA-RH	ROBE HOOK	CFCI	ALL BATHROOMS
TA-TP	Pivoting Paper Holder	CFCI	ALL BATHROOMS
TA-TR	Towel ring	CFCI	ALL BATHROOMS

CONSULTANTS

600 Kansas City St. Rapid City, SD 57701

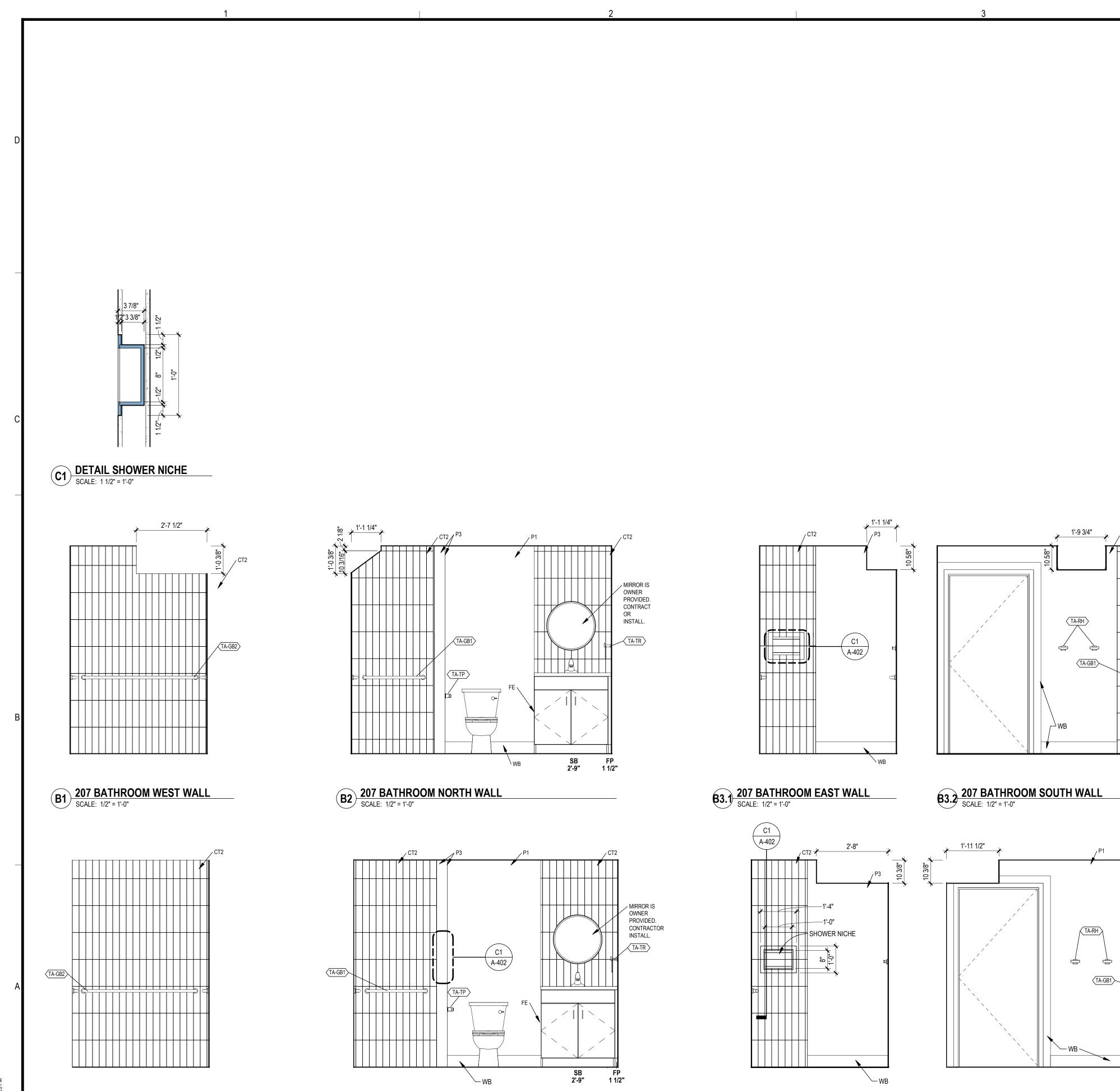
> (605) 343-6102 www.teamtsp.com

8/31/2023

SOUTH DAKOTA **DEPARTMENT OF THE MILITARY** RENOVATE GENERALS **QUARTERS BUILDING** RC CAMP RAPID

ISSUES

ISSUE DATE	DATE	DESCRI DRAWN BY	PHON	
08/31/2023		MPP		ĺ
PROJECT#		CHECKED B	Υ	_ :
03221580		BRM		- : - (
SHEET TITLE				_ (
INTERIO	R FI	FVΔTIC	NS	1
				. (
SHEET NUMBER		.01		



ENLARGED PLAN AND INT ELEV GENERAL NOTES

- A. ALIGN FINISHED FACE OF CONTINUOUS PARTITIONS THAT CHANGE PARTITION TYPES ALONG A STRAIGHT RUN.
- B. EDGE OF INTERIOR DOOR FRAMES TO BE 4" FROM ADJACENT WALL, U.N.O.
- ALL WALL DIMENSIONS ARE TO FACE OF GYPSUM BOARD, CMU, BRICK, OR CONCRETE; U.N.O.
- D. 25 1/2" DEEP PLASTIC LAMINATE COUNTERTOP U.N.O.
- SEE BUILDING ACCESSORY AND INTERIOR ELEVATION LEGENDS ON SHEET A-400 FOR ADDITIONAL INFORMATION.
- ASSUME PLASTIC LAMINATE FILLER AT END OF ALL CASEWORK ADJACENT TO A WALL.
- G. ALL WALL CABINETS AND TALL CABINETS WILL HAVE SLOPED TOPS U.N.O.
- COORDINATE GROMMET LOCATION WITH OWNER.
- CABINET DEPTH (NOT INCLUDING DOORS) U.N.O. WALL CABINET = 14" BASE CABINET = 24"
- K. INTERIOR TRIM AROUND ALL DOORS AND WINDOWS. DIMENSIONS = 5 1/4" WIDE OVERALL.

CABINE	T KEY	GUIDE TO INTERIOR ELEVATION CASEWORK TAG DESCRIPTIONS

INDICATES UNIT TYPE		INDICATES UNIT WIDTH
INDICATES UNIT DEPTH ——— (OTHER THAN STANDARD)	───── 1'-6"D	

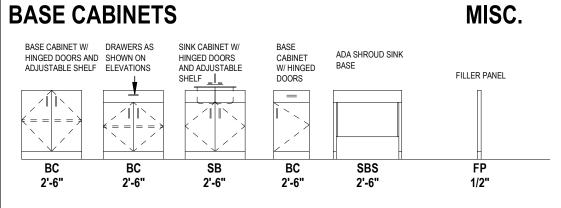
WALL CABINETS

WC 2'-2"

WALL CABINET W/ HINGED DOORS AND ADJUSTABLE SHELF

1011110		
CWC 1'-9"	WC 1'-9"	
	€ = =	
CORNER WALL	SINGLE WALL	
CABINET W/	CABINET W/	
HINGED DOORS	HINGED DOOR	
AND ADJUSTABLE	AND	
CHELE	AD ILISTARI E	

BASE CABINETS



TOILET ACCESSORY SCHEDULE

		FURNISH/	
MARK	DECSRIPTION	INSTALL	COMMENTS
TA-GB	GRAB BAR SET OF THREE	CFCI	MAIN LEVEL BATHROOM ONLY
TA-GB1	26 INCH ADA COMPLIANT GRAB BAR	CFCI	ALL BATHROOMS
TA-GB2	50 INCH ADA COMPLIANT GRAB BAR	CFCI	ALL BATHROOMS
TA-RH	ROBE HOOK	CFCI	ALL BATHROOMS
TA-TP	Pivoting Paper Holder	CFCI	ALL BATHROOMS
TA-TR	Towel ring	CFCI	ALL BATHROOMS
	,		

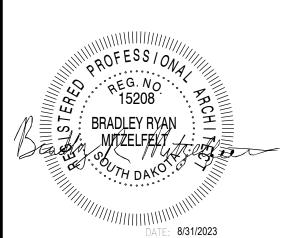


600 Kansas City St. Rapid City, SD 57701

(605) 343-6102 www.teamtsp.com

> Architecture Engineering Planning

CONSULTANTS





SOUTH DAKOTA DEPARTMENT OF THE MILITARY RENOVATE GENERALS QUARTERS BUILDING

RC CAMP RAPID

ISSUES

ISSUE	DATE	DESCRIPTION	_S
ISSUE DATE 08/31/2023		DRAWN BY MPP	_
PROJECT # 03221580		CHECKED BY BRM	_ OCUM
SHEET TITLE	OR ELI	EVATIONS	
			STRUCTION

© TSP, Inc. 2022

203 BATHROOM WEST WALL
SCALE: 1/2" = 1'-0"

203 BATHROOM NORTH WALL
SCALE: 1/2" = 1'-0"

A3.1 203 BATHROOM EAST SHOWER WALL
SCALE: 1/2" = 1'-0"

A3.2 SCALE: 1/2" = 1'-0"



> (605) 343-6102 www.teamtsp.com

> > Architecture Engineering Planning

CONSULTANTS



SOUTH DAKOTA DEPARTMENT OF THE MILITARY RENOVATE GENERALS **QUARTERS BUILDING**

RC CAMP RAPID

ISSUES

ISSUE	DATE	DESCRIPTION]
ISSUE DATE		DRAWN BY	- :
08/31/2023	}	CHM	_
PROJECT#		CHECKED BY	!
03221580		CHM	_ ;
SHEET TITLE			-

MECHANICAL TITLE SHEET

SHEET NUMBER

TRUCTION

BEDROOM 201

FIRE PROTECTION PLAN - LOWER FLOOR

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

FIRE SPRINKLER TYPE LEGEND:

STANDARD RESPONSE, STANDARD TEMPERATURE PENDANT QUICK RESPONSE, INTERMEDIATE TEMPERATURE PENDANT DRY STYLE, EXTEND BARREL SIDEWALL

FIRE SUPPRESSION SYSTEM ASSUMED DESIGN CRITERIA:

*BELOW ARE THE ASSUMED PARAMETERS FOR THE NFPA-13R SYSTEM. PARAMETERS AND SYSTEM COMPONENTS WERE ASSUMED IN ORDER TO PLAN BUILDING ELEMENTS AROUND THE EVENTUAL INSTALLATION OF THE FIRE SUPPRESSION SYSTEM. IT IS THE RESPONSIBILITY OF THE DELEGATED DESIGN CONTRACTOR AND QUALIFIED SPRINKLER SYSTEM DESIGNER TO VERIFY REQUIREMENTS AND PERFORM THEIR OWN INTERPRETATION OF NFPA-13R WHEN DESIGNING FIRE SUPPRESSION SYSTEM.

SPACE:	OCCUPANCY:	SYSTEM TYPE:	HAZARD:	AREA (LARGEST):
ZONE #1 - LIVING QUA	.RTERS.			
BEDROOM	R3 OCCUPANCY	WFT PIPF	LIGHT HAZARD	APPROX. 240 SF
BATHROOM	R3 OCCUPANCY	WET PIPE	LIGHT HAZARD	APPROX. 75 SF
LIVING ROOM	R3 OCCUPANCY	WET PIPE	LIGHT HAZARD	APPROX. 75 SF
KITCHEN	R3 OCCUPANCY	WET PIPE	LIGHT HAZARD	APPROX. 128 SF
DINING ROOM	R3 OCCUPANCY	WET PIPE	LIGHT HAZARD	APPROX. 109 SF
CLOSET	R3 OCCUPANCY	WET PIPE	LIGHT HAZARD	APPROX. 34 SF
*CLOSETS BELOW 24	SF ARE NOT REQUIRED TO	BE SPRINKLERED PER NFPA	N-13R.	
MECHANICAL ROOM	R3 OCCUPANCY	WET PIPE	ORDINARY HAZARD	APPROX. 59 SF

SHEET GENERAL NOTES

- A INSTALL NEW FIRE SPRINKLER SYSTEM THAT SHALL PROVIDE FULL COVERAGE TO THE ENTIRE BUILDING AREA. ALL WORK SHALL COMPLY WITH NFPA-13R, LOCAL FIRE MARSHALL, AND OWNERS INSURANCE CARRIER REQUIREMENTS. CONTRACTOR SHALL BE REPONSIBLE FOR DESIGN AND OBTAINING ALL NECESSARY PERMITS AND APPROVALS.
- B REFERENCE ARCHITECTURAL REFLECTED CEILING PLANS FOR AREAS WITH CEILINGS OR AREAS THAT ARE EXPOSED.
- C ATTIC NOT REQUIRED TO BE PROTECTED PER NFPA-13R. REFERENCE FIRE SPRINKLER PIPING INSTALLATION AND FREEZE PROTECTION DETAILS SHEET M-501 FOR PIPING ROUTED IN ATTIC.

- 1 BASEMENT TO BE PROTECTED OFF WET PIPE ZONE #1, APPROXIMATE SQUARE FOOTAGE OF 707 SF. 2 FIRST LEVEL TO BE PROTECTED OFF WET PIPE ZONE #1, APPROXIMATE SQUARE FOOTAGE OF 755
- 3 PROVIDE QUICK-RESPONSE INTERMEDIATE TEMPERATURE SPRINKLER TO PROTECT MECHANICAL ROOM PER NFPA-13R.
- 4 PROVIDE DRY SIDWALL SPRINKLERS WITH EXTENDED BARREL TO PROTECT BELOW DECK AREA. BARREL MUST BE MINIMUM 8" IN LENGTH FROM INTERIOR OF FOUNDATION WALL PER NFPA-13R.
- 5 DIAGONAL HASHED LINES INDICATED APPROXIMATE EXTENTS OF DECK ABOVE. CONTRACTOR TO FIELD VERIFY.
- 6 PROVIDE DRAIN AND INSPECTOR'S TEST THROUGH FOUNDATION WALL. 7 ROUTE RETURN BEND PIPING UP THROUGH JOISTS. REFERENCE STRUCTURAL PLANS, DETAIL D4, SHEET S-501 FOR JOIST NOTCHING REQUIREMENTS. MEET IBC 2021 SECTION 2308.4.2.4 NOTCHING
- AND BORING REQUIREMENTS AS INDICATED BY STRUCTURAL PLANS\. 8 SEE PL101 FOR CONTINUATION OF PIPING FROM COMBINED WATER AND FIRE SERVICE ENTRANCE.
- 9 MAINTAIN 18" SEPARATION FROM RANGE HOOD PER NFPA-13R. 10 PROVIDE DOUBLE CHECK BACKFLOW PREVENTER FOR COMBINATION FIRE SUPPRESSION AND DOMESTIC WATER SERVICE. DOUBLE CHECK SHALL BE LISTED FOR FIRE SERVICE.

600 Kansas City St. Rapid City, SD 57701

> (605) 343-6102 www.teamtsp.com

> > Architecture Engineering Planning

CONSULTANTS





SOUTH DAKOTA DEPARTMENT OF THE MILITARY RENOVATE GENERALS **QUARTERS BUILDING**

RC CAMP RAPID

ISSUES

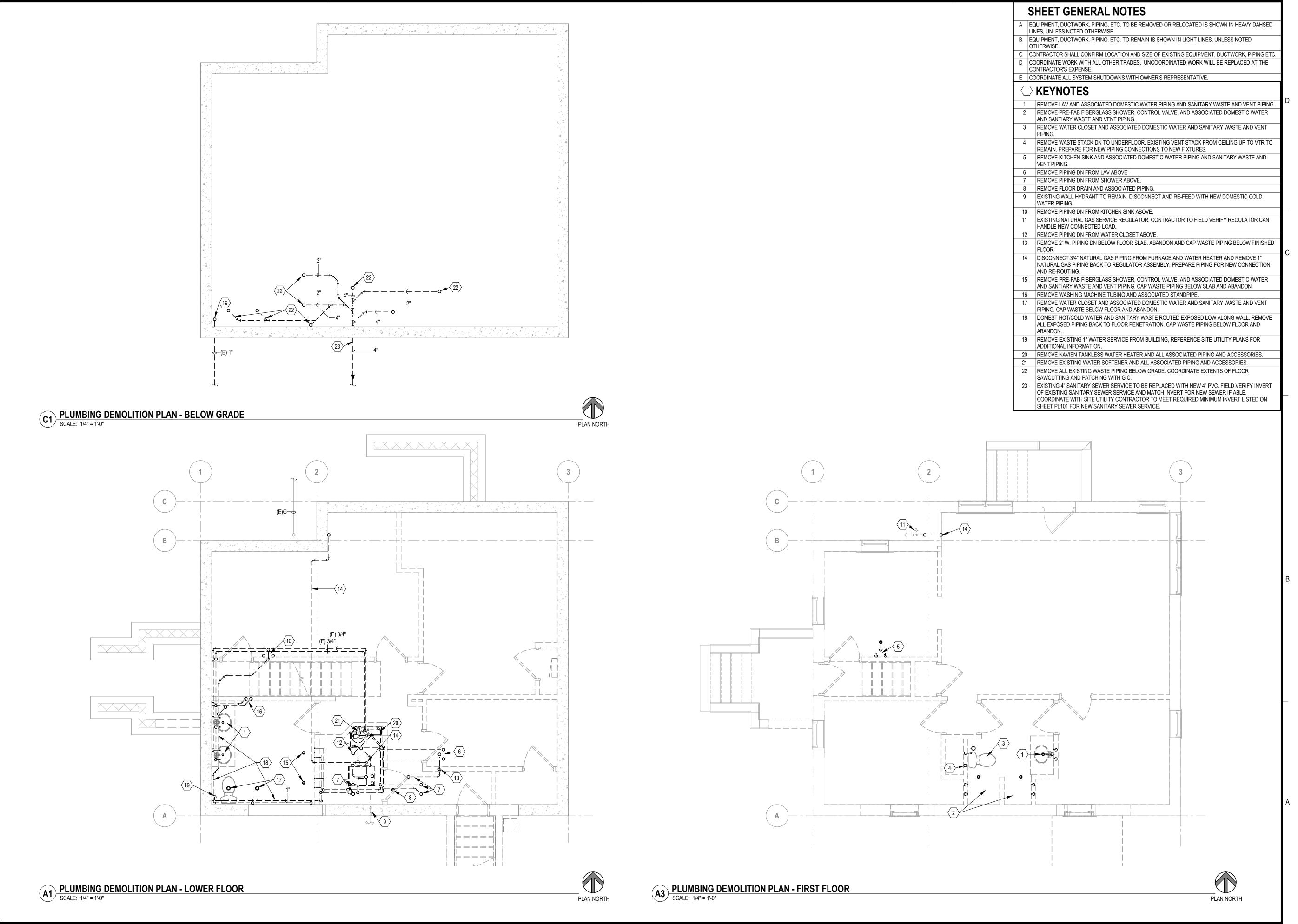
ISSUE	DATE	DESCRIPTION	ျှင
ISSUE DATE 08/31/2023		DRAWN BY	- 四
PROJECT#		CHECKED BY	-\
03221580 SHEET TITLE		СНМ	OCUMEN
FIRE PI PLANS	ROTEC	CTION	STRUCTION D
			RU
SHEET NUMBE	R		CONST

PLAN NORTH

FIRE PROTECTION PLAN - FIRST FLOOR

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

PLAN NORTH





> (605) 343-6102 www.teamtsp.com

> > Architecture Engineering

> > > Planning

CONSULTANTS





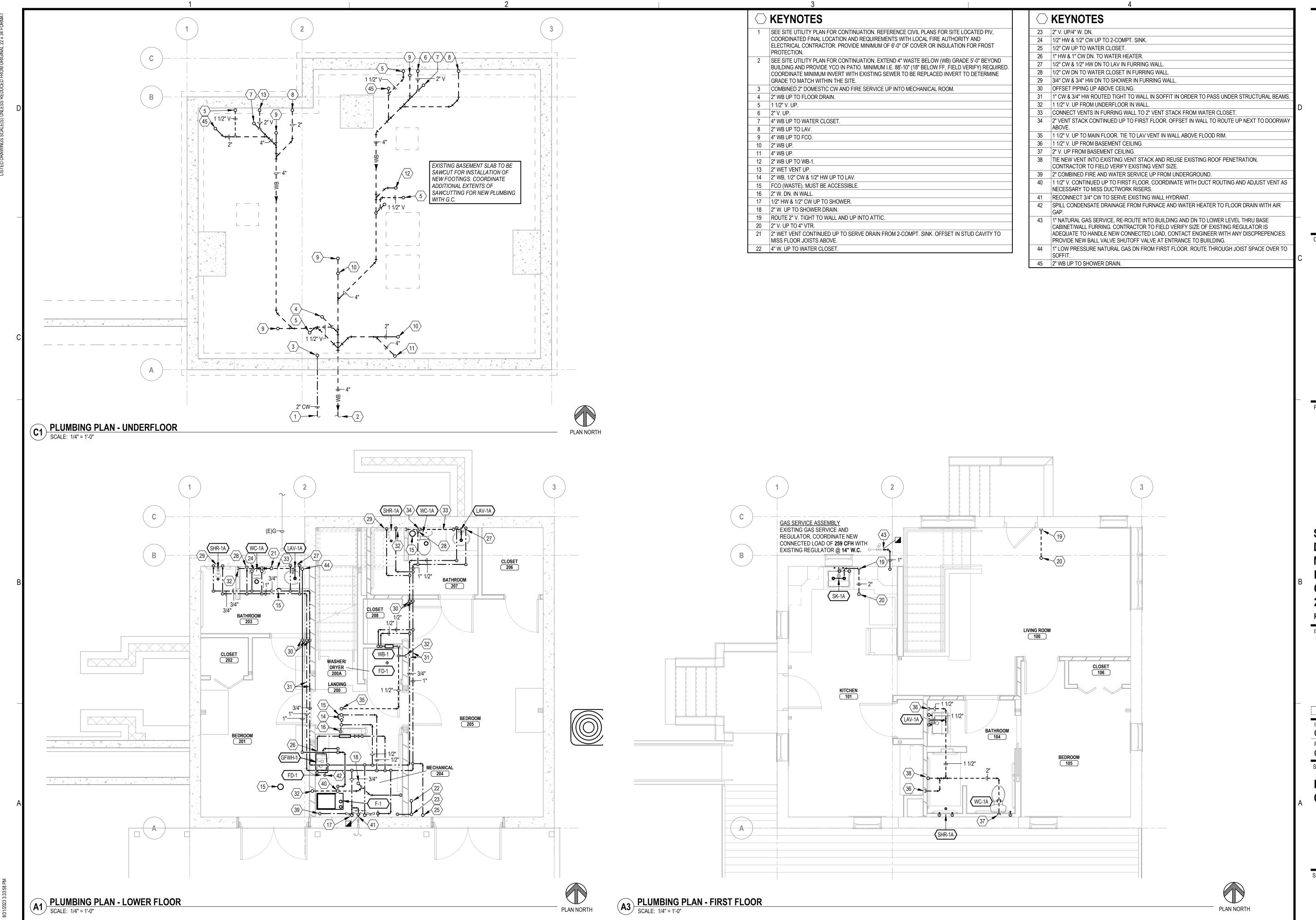
SOUTH DAKOTA DEPARTMENT OF THE MILITARY RENOVATE GENERALS QUARTERS BUILDING

RC CAMP RAPID

ISSUES

-				(
	ISSUE	DATE	DESCRIPTION	``
				<u> </u>
	ISSUE DATE		DRAWN BY	-
	08/31/2023	3	CHM	_ !
	PROJECT#		CHECKED BY	_
	03221580		CHM	-
	SHEET TITLE			— (

PLUMBING DEMOLITION **PLANS**





> (605) 343-6102 www.teamtsp.com

> > Architecture Engineering Planning

CONSULTANTS





SOUTH DAKOTA DEPARTMENT OF THE MILITARY RENOVATE GENERALS QUARTERS BUILDING

RC CAMP RAPID

ISSUES

ISSUE	DATE	DESCRIPTION	_ ଫ
ISSUE DATE 08/31/202 3	3	DRAWN BY	-
PROJECT # 03221580		CHECKED BY	_
SHEET TITLE			- ک

PLUMBING PLANS - NEW CONSTRUCTION



> (605) 343-6102 www.teamtsp.com

> > Architecture Engineering Planning

CONSULTANTS



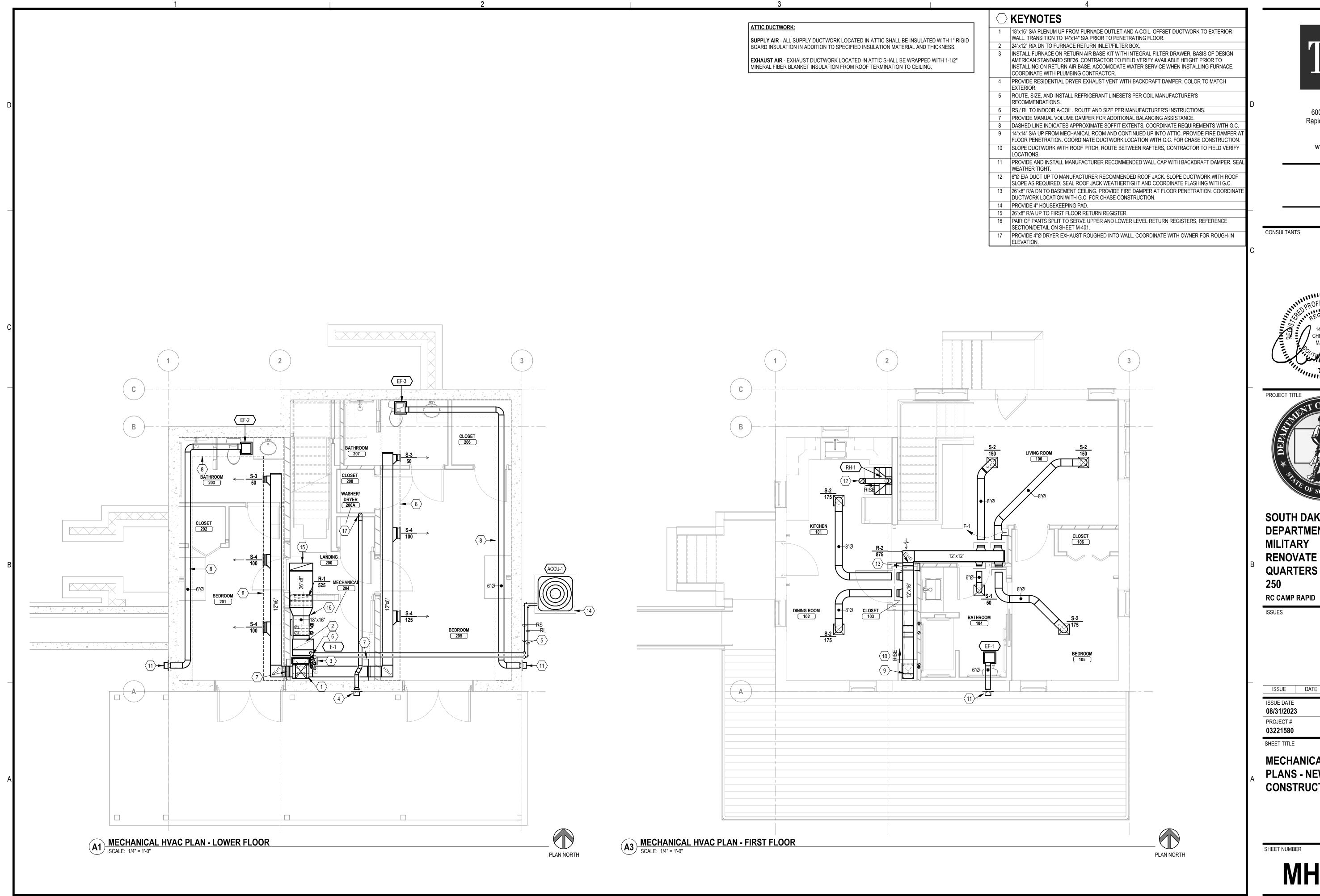


SOUTH DAKOTA **DEPARTMENT OF THE MILITARY** RENOVATE GENERALS **QUARTERS BUILDING**

RC CAMP RAPID

ISSUES

-	ISSUE	DATE	DESCRIPTION	
	ISSUE DATE 08/31/2023		DRAWN BY	
	PROJECT # 03221580		CHECKED BY	OCUMEN
	SHEET TITLE			- 0
Α	MECHA DEMOL		_	STRUCTION [
	SHEET NUMBER		101	00% CON





> (605) 343-6102 www.teamtsp.com

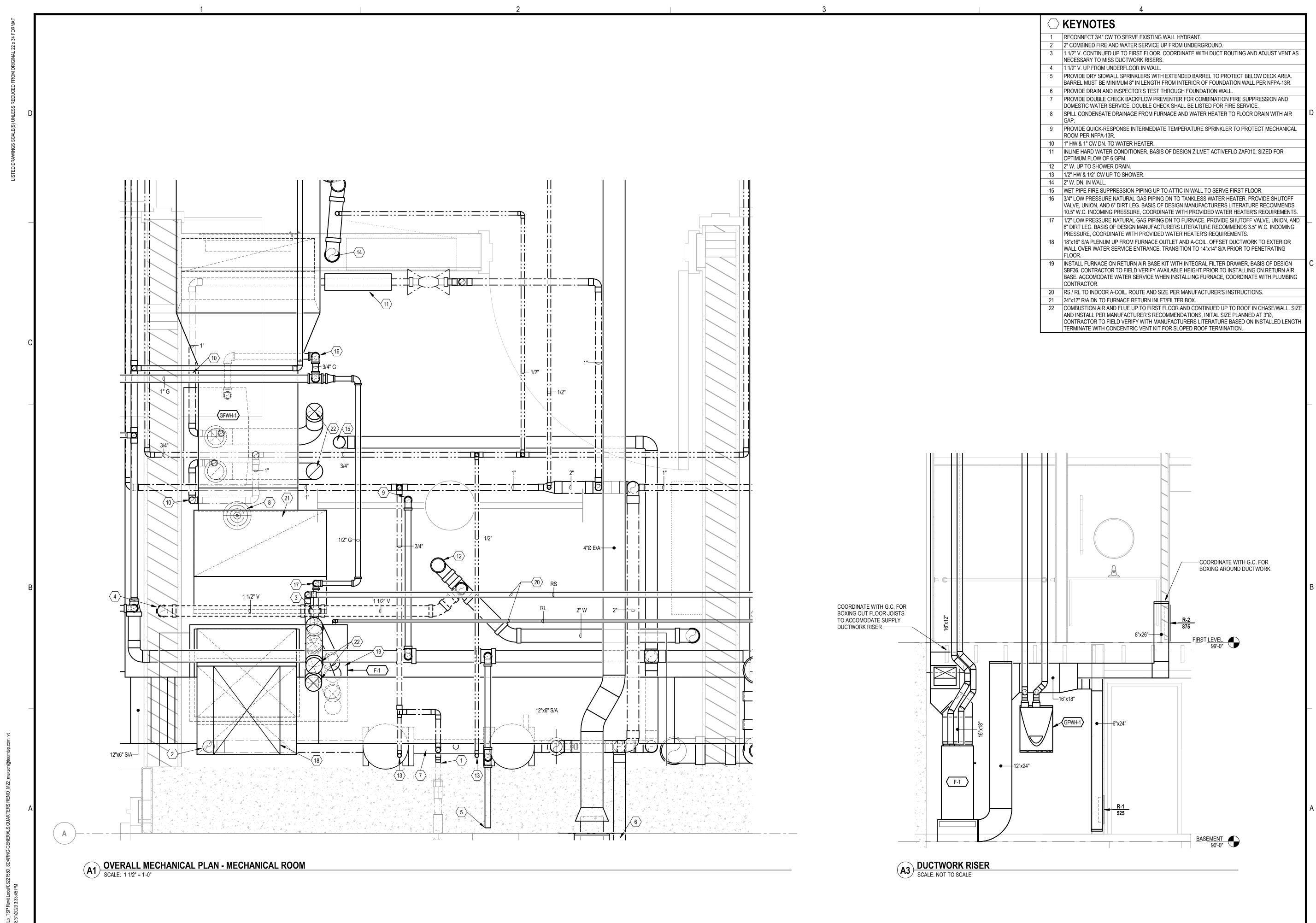
> > Architecture Engineering Planning





SOUTH DAKOTA DEPARTMENT OF THE MILITARY RENOVATE GENERALS **QUARTERS BUILDING**

ISSUE	DATE	DESCRIPTION	$\neg \Sigma$
ISSUE DATE 08/31/2023		DRAWN BY	
PROJECT # 03221580		CHECKED BY	\overline{S}
MECHAPLANS CONST	- NEW	1	SONSTRUCTION DOCUM
SHEET NUMBE		101	00 %00I





> (605) 343-6102 www.teamtsp.com

> > Architecture Engineering Planning

CONSULTANTS





SOUTH DAKOTA DEPARTMENT OF THE MILITARY RENOVATE GENERALS QUARTERS BUILDING

RC CAMP RAPID

ISSUES

ISSUE	DATE	DESCRIPTION	ျှ
ISSUE DATE 08/31/2023	3	DRAWN BY	¯ N E
PROJECT # 03221580		CHECKED BY	
SHEET TITLE			- 00
HNI AR	RGFD		

ENLARGED **MECHANICAL PLANS**

24" x 24" x 6" CONCRETE ---

DRIVE SURFACE OR GRADE

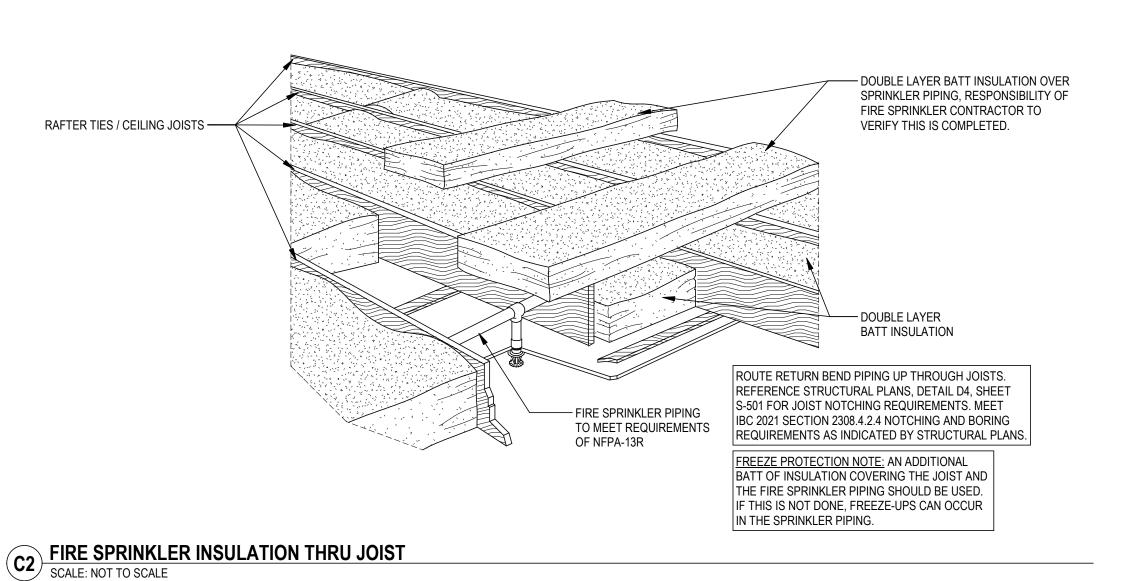
6" COMPACTED GRAVEL -

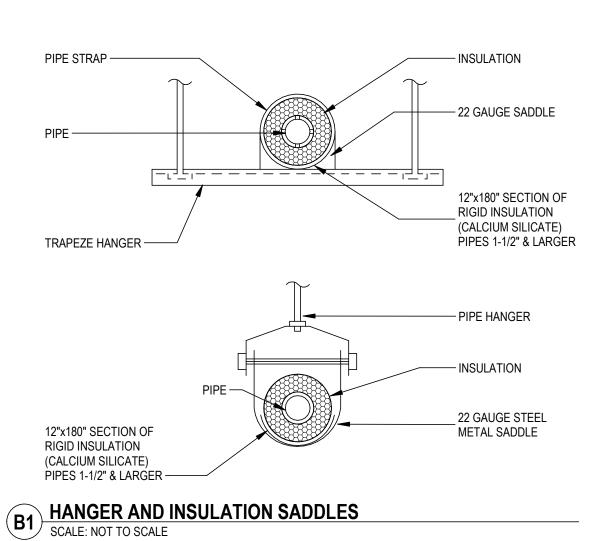
CAST IRON EXTENSION SAME

A1 EXTERIOR CLEANOUT SCALE: NOT TO SCALE

SIZE AS SEWER UP TO 4"

DIAMETER -





- CAST IRON CLEAN OUT SIMILAR

- CAST IRON LONG SWEEP 1/4"

COMBINATION "Y" AND 1/8"

BEND. (USE REDUCING TYPE

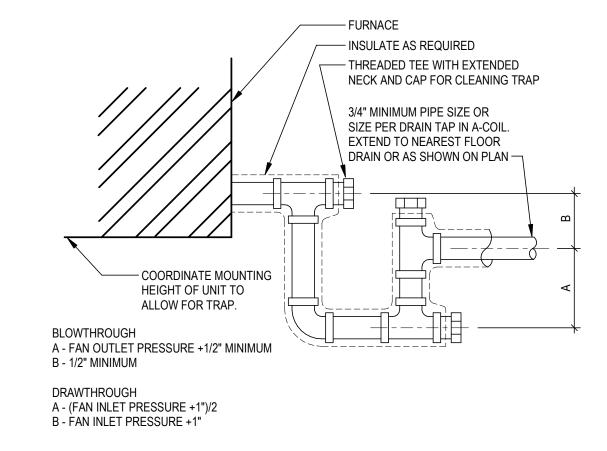
SEWER MATERIAL AND SIZE AS

BEND OR CAST IRON

WHERE REQUIRED)

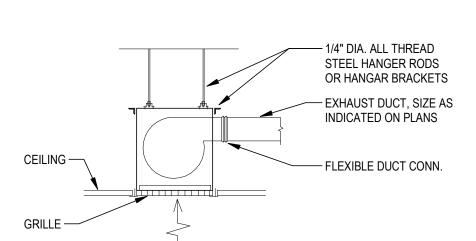
SPECIFIED

TO JOSAM #58864

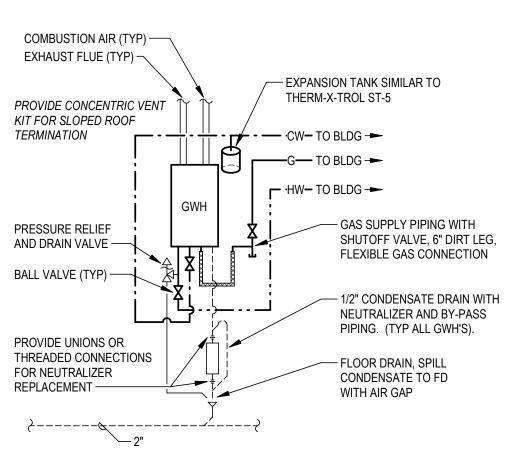


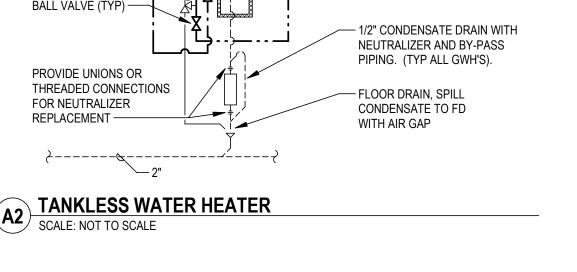
B2 CONDENSATE DRAIN TRAP

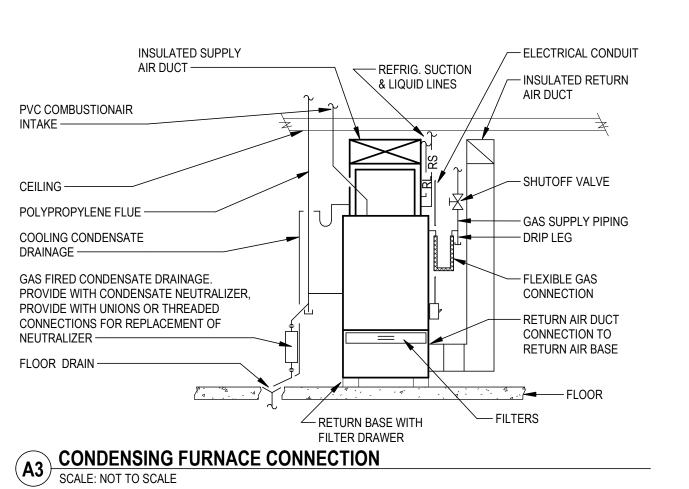
SCALE: NOT TO SCALE

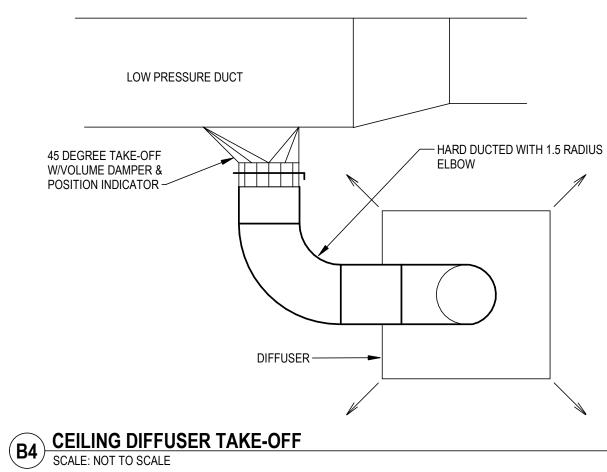




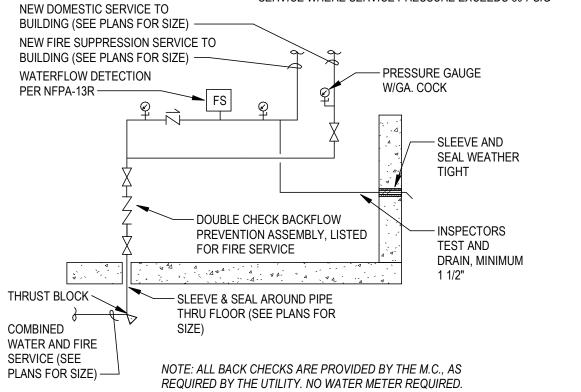








NOTE: PROVIDE WATER PRESSURE REGULATOR DOWNSTREAM OF BACKFLOW PREVENTER AND UPSTREAM OF DOMESTIC WATER SERVICE AND FIRE SUPPRESSION SERVICE WHERE SERVICE PRESSURE EXCEEDS 80 PSIG



APPROXIMATE BUILDING DOMESTIC DEMAND OF 20 GPM PEAK LOAD

WATER METER ENTRANCE PIPING SCALE: NOT TO SCALE

600 Kansas City St. Rapid City, SD 57701

> (605) 343-6102 www.teamtsp.com

> > Architecture Engineering Planning

CONSULTANTS





SOUTH DAKOTA DEPARTMENT OF THE MILITARY RENOVATE GENERALS **QUARTERS BUILDING**

RC CAMP RAPID

ISSUES

			<i>(1</i>
ISSUE	DATE	DESCRIPTION	\Box
SUE DATE		DRAWN BY	— <u>-</u>
8/31/2023	3	CHM	<u> </u>
ROJECT#		CHECKED BY	_≥
3221580		CHM	_

MECHANICAL DETAILS

SHEET NUMBER

© TSP, Inc. 2022

00% CONSTRUCTION

GAS FURNACE SCHEDULE

ELECTRICAL REQUIREMENTS **EQUIPMENT REQUIREMENTS** SUPPLY FAN **EVAPORATOR COOLING COIL** GAS FIRED HEAT EXCHANGER CONTROLLER DISCONNECT MOTOR TOTAL CLG. ENTERING AIR ENTERING AIR LEAVING AIR LEAVING AIR PRESSURE INPUT @ OUTPUT @ NO. OF FUEL UNIT EQUIPMENT ELECTRICAL MIN CKT UNIT NO. LOCATION MANUFACTURER MODEL NO. ARRANGEMENT AIRFLOW ESP TYPE POWER CAP. TEMP. DB TEMP. WB TEMP. DB TEMP. WB DROP 2ND STAGE 2ND STAGE STAGES TYPE AFUE WEIGHT NOTES VOLT/PH AMP MOCP WIRE SIZE / CONDUIT TYPE SIZE LOCATION DEVICE AUX BY BY BY NOTES F-1 MECH ROOM AMERICAN STANDARD S9V2B060U4PSBB UPFLOW 1400 CFM 0.90 in-wg DIRECT 0.75 hp 33985 Btu/h 77.1 °F 52.9 °F 0.40 in-wg 60000 Btu/h 58300 Btu/h 2 NG 95 122 lb ALL 120/1 13.5 15 SEE CIRCUIT SCHEDULE INTEGRAL - - - - DIV. 22/23 MOTOR RATED TOGGLE SWITCH DIV. 26

1. VARIABLE SPEED DIRECT DRIVE BLOWER WITH DIRECT DRIVE COMBUSTION FAN.

2. 2-STAGE HEATING, 2-STAGE COOLING. 3. PROVIDE WITH MATCHING CASED COIL, BASIS OF DESIGN 4TXCB004DS3.

4. PROVIDE WITH 409 STAINLESS STEEL PRIMARY HEAT EXCHANGER, 29-4C SECONDARY HEAT EXCHANGER.

5. PROVIDE WITH MERV 8, HIGH VELOCITY FILTER, APPROXIMATE SIZE 16"x25"x1". PROVIDE REPLACEMENT FILTER AT THE COMPLETION OF PROJECT. 6. PROVIDE WITH RETURN AIR BASE WITH FILTER DRAWER, BASIS OF DESIGN SBF36.

7. PROVIDE WITH 7-DAY PROGRAMMABLE THERMOSTAT COMPATIBLE FOR 2-STAGE HEATING AND COOLING, BASIS OF DESIGN AMERICAN STD ACONT824.

8. PROVIDE MANUFACTURER RECOMMENDED CONDENSATE NEUTRALIZER KIT.

9. PROVIDE WITH MANUFACTURER RECOMMENDED CONCENTRIC VENT KIT, DESIGNED FOR TERMINATION THROUGH SLOPED ROOF.

MODEL NO.

ACCU-1 EXTERIOR AMERICAN STANDARD 4A7A7036A 1 0.13 hp 33985 Btu/h

AIR COOLED CONDENSING UNIT SCHEDULE								
SHMM	:D	COOLING						

NOTES VOLT/PH

240/1

ALL

MIN AIC

2600

AMP MOCP WIRE SIZE / CONDUIT

E1. PROVIDE 30A, HEAVY-DUTY, NON-FUSED DISCONNECT IN A NEMA 3R ENCLOSURE.

ELECTRICAL REQUIREMENTS

TYPE SIZE LOCATION DEVICE AUX BY BY TYPE BY

ELECTRICAL

NOTES

CONTROLLER

18.4 30 SEE CIRCUIT SCHEDULE INTEGRAL - - - - DIV. 22/23 E1 DIV. 26

CTL

EQUIP NOTES:

UNIT NO. LOCATION

1. UNIT SHALL ALLOW FOR COOLING OPERATION DOWN TO 32°F.

MANUFACTURER

2. 2-STAGE COOLING. 3. PROVIDE WITH FOLLOWING OPTIONS: COMPRESSOR CRANKCASE HEATER, COMPRESSOR HARD START KIT, LOW PRESSURE CUTOUT SWITCH, AND OUTDOOR THERMOSTAT.

4. RESISTANCE HEAT SWITCH.

5. FREEZESTAT, TUBING SIZED PER MANUFACTURER'S RECOMMENDATIONS.

THERMAL EXPANSION VALVE.

		(GRILLES	, REGISTERS AND DIFFUSERS SCHEDULE
			MOUNTING	

TOTAL CLG.

QUANTITY POWER CAP. QUANTITY

						MOUNTING		MAX NC	MAX PD	INTEGRAL			
TYPE	SYSTEM	MANUFACTURER	MODEL NO.	FACE SIZE	NECK SIZE	TYPE	SPECIFICATION	(dB)	("WG)	DAMPER	FINISH COLOR	MATERIAL	REMARKS
S-1	SUPPLY	PRICE	SPD	12x12	6"Ø	SURFACE	SQUARE PLAQUE DIFFUSER, ONE PIECE BACKPAN, 360° THROW	20	0.05	-	BY ARCH	STEEL	-
S-2	SUPPLY	PRICE	SPD	12x12	8"Ø	SURFACE	SQUARE PLAQUE DIFFUSER, ONE PIECE BACKPAN, 360° THROW	20	0.05	-	BY ARCH	STEEL	-
S-3	SUPPLY	PRICE	520	9"x6"	7"x4"	SURFACE	DOUBLE DEFLECTION GRILLE WITH FRONT BLADES PARALLEL TO LONG DIMENSION, 3/4" SPACING	20	0.05	OBD	BY ARCH	STEEL	-
S-4	SUPPLY	PRICE	520	14"x6"	12"x4"	SURFACE	DOUBLE DEFLECTION GRILLE WITH FRONT BLADES PARALLEL TO LONG DIMENSION, 3/4" SPACING	20	0.05	OBD	BY ARCH	STEEL	-
R-1	RETURN	PRICE	530	18"x16"	16"x14"	SURFACE	FIXED 45° DEFLECTION RETURN GRILLE, 3/4" BLADE SPACING	20	0.05	OBD	BY ARCH	STEEL	-
R-2	RETURN	PRICE	530	26"X20""	24"x18"	SURFACE	FIXED 45° DEFLECTION RETURN GRILLE, 3/4" BLADE SPACING	20	0.05	OBD	BY ARCH	STEEL	-
				•									

TYPE

EQUIPMENT REQUIREMENTS

POWER

COMPRESSOR

STAGES

RANGE HOOD SCHEDULE

OUTDOOR SUBCOOLIN EFFICIENCY EQUIPMENT

AIR TEMP. G(DEG F) (SEER)

95.0 °F 9.0 °F

	EQUIPMENT REQUIREMENTS										ELECTRICAL REQUIREMENTS												
						EXHAUST AIR																	
				EXHAU	JST FAN	CONNECTOR		D	IMENSIONS							CONTR	ROLLER				DISCONNECT		
					EXT. STATIC		SONES @																ELECTRICAL
UNIT NO.	LOCATION	MANUFACTURER	MODEL NO.	AIRFLOW	PRESS.	DUCT DIA.	HIGH SPEED	LENGTH	WIDTH HEIGHT	EQUIPMENT NOTES	VOLT/PH	MIN CKT AMP	WIRE SIZE / CONDUIT	TYPE	SIZE	LOCATION	CTL DEVICE	AUX	BY	CONTROL BY	TYPE	BY	NOTES
RH-1	KITCHEN 101	Broan-NuTone	EW4330SS	350 CFM	0.30 in-wg	0'-6"	7.5	2'-6"	1'-7 1/2" 0'-3"	ALL	120/1	2	SEE CIRCUIT SCHEDULE	INTEGRAL	-	-	-	-	DIV. 22/23	DIV. 22/23	LOCKABLE CIRCUIT BREAKER	DIV. 26	

EQUIP NOTES:

1. FACTORY PROVIDED BACKDRAFT DAMPER AND ROUND EXHAUST DUCT CONNECTION.

2. MAX BLOWER CFM OF 460 CFM WITH 3-SPEED TOUCH CONTROL. 3. PROVIDE WITH INTEGRAL LED LIGHTING.

4. PROVIDE WITH MANUFACTURER RECOMMENDED ROOF JACK FOR SLOPED ROOF TERMINATION. 5. COLOR SELECTED BY ARCHITECT, BASIS OF DESIGN MODEL SELECTED WITH STAINLESS STEEL COLOR.

6. PROVIDE WITH S99010476 ALUMINUM GREASE FILTERS.

	EXHAUST FAN & POWER ROOF VENT SCHEDULE																									
	EQUIPMENT REQUIREMENTS ELECTRICAL REQUIREMENTS																									
														ELECTRICAL												
UNIT NO.	LOCATION	SERVES	MANUFACTURER	MODEL NO.	TYPE	AIRFLOW	ESP	RPM	POWER	POWER	SONES	WEIGHT	NOTES	VOLT/PH	AMP	WIRE SIZE / CONDUIT	TYPE	SIZE	LOCATION	CTL DEVICE	AUX	BY	BY	TYPE	BY	NOTES
EF-1	BATHROOM 104	BATHROOM 104	PENNBARRY	ZJ1-SC	CENTRIFUGAL CEILING CABINET BLOWER	75 CFM	0.50 in-wg	940	0.03 hp	0.17 hp	1.57	15 lb	ALL	120/1	2.13	SEE CIRCUIT SCHEDULE	SWITCH	-	BATHROOM 104	-	- D	IV. 26	DIV. 26	INTEGRAL	DIV. 22/23	
EF-2	BATHROOM 203	BATHROOM 203	PENNBARRY	ZJ1-SC	CENTRIFUGAL CEILING CABINET BLOWER	75 CFM	0.50 in-wg	940	0.03 hp	0.17 hp	1.57	15 lb	ALL	120/1	2.13	SEE CIRCUIT SCHEDULE	SWITCH	-	BATHROOM 203	-	- D	IV. 26	DIV. 26	INTEGRAL	DIV. 22/23	
EF-3	BATHROOM 207	BATHROOM 207	PENNBARRY	ZJ1-SC	CENTRIFUGAL CEILING CABINET BLOWER	75 CFM	0.50 in-wg	940	0.03 hp	0.17 hp	1.57	15 lb	ALL	120/1	2.13	SEE CIRCUIT SCHEDULE	SWITCH	-	BATHROOM 207	-	- D	IV. 26	DIV. 26	INTEGRAL	DIV. 22/23	

1. PROVIDE WITH WHITE ALUMINUM GRILLE AT FAN INLET, INTEGRAL SPEED CONTROLLER, BACKDRAFT DAMPER, AND THERMAL OVERLOAD PROTECTION.

2. PROVIDE WITH VIBRATION ISOLATION HANGAR BRACKETS FOR JOIST MOUNTING. COORDINATE ANY ADDITIONAL FRAMING MEMBERS NECESSARY FOR HANGING WITH G.C.

	WATER HEATER SCHEDULE																						
	EQUIPMENT REQUIREMENTS ELECTRICAL REQUIREMENTS																						
					INPUT @	FUEL	TEMP	COMBUSTION AIR	EXHUAST AIR	EQUIPMENT		MIN CKT				CONTR	ROLLER			CONTROL	DISCONNE	СТ	ELECTRICAL
UNIT NO.	LOCATION	MANUFACTURER	MODEL NO.	INPUT	MIN. FIRE	TYPE	RISE	DUCT DIAMETER	DUCT DIAMETER	NOTES	VOLT/PH	AMP	MOCP	WIRE SIZE / CONDUIT T	TYPE SIZ	LOCATION	CTL DEVICE	AUX	BY	BY	TYPE	BY	NOTES
GFWH-1	MECH. ROOM	A.O. Smith	ACT-199I-N	199000 Btu/h	15000 Btu/h	NG	80 °F	3"	3"	ALL	120/1	5	20	SEE CIRCUIT SCHEDULE INTE	TEGRAL -	-	-	-	-	DIV. 22/23	CORD AND PLUG	DIV. 22/23	

1. PROVIDE ISOLATION AND PRESSURE RELIEF VALVES PER MANUFACTURER'S INSTRUCTIONS.

2. PROVIDE PVC CONCENTRIC VENT KIT FOR VERTICAL TERMINATION THROUGH SLOPED ROOF, 3" EXHAUST AND 3" COMBUSTION.

3. PROVIDE WITH MANUFACTURER RECOMMENDED CONDENSATE NEUTRALIZER KIT.

	PLUMBING FIXTURE SCHEDULE												
								CONNECTI	IONS				
UNIT NO.	DESCRIPTIION	MANUFACTURER	MODEL	SPECIFICATIONS	FLUSH VALVE OR FAUCET	ACCESSORY	CW	HW W	VASTE VE	NT MOUNTING HEIGHT			
FD-1	FLOOR DRAIN - ROUND	SIOUX CHIEF	833	CAST IRON, NICKEL BRONZE ADJUSTABLE STRAINER, FLASHING COLLAR CLAMP AND P-TRAP.			-	-	2" 11	72"			
LAV-1A	LAVATORY - COUNTER - ADA COMPLIANT	KOHLER	BRYANT	20"x16 1/2" OVAL DROP-IN BASIN, VITREOUS CHINA, SELF-RIMMING, FAUCET LEDGE, FRONT OVERFLOW	KOHLER TAUT 4" CENTERSET FAUCET, QUARTER-TURN CERAMIC DESC VALVING, (1.2 GPM), BRUSHED NICKEL FINISH. PROVIDE WITH MATCHING POP-UP DRAIN.	1 1/4" P-TRAP, CHROME ANGLE SUPPLIES & STOPS, ASSE 1070 POINT-OF-USE MIXING VALVE.	1/2"	1/2"	2" 11	2" DROP-IN WITH CASEWORK AT ADA HEIGHT.			
SHR-1A	SHOWER - ADA COMPLIANT	BEST BATH	P6036E	WALLS BUILT UNDER GENERAL CONSTRUCTION. PROVIDE WITH 36"x60" ADA ACCESSIBLE FIBERGLASS SHOWER PAN WITH ASSOCIATED BRASS DRAIN	KOHLER PURIST 1.75 GPM MULTI-FUNCTION SHOWER HEAD, HAND HELD SHOWER WITH 5'-0" FLEX HOSE, 30" SLIDE BAR, VACUUM BREAKER, MATCHING SHOWER CONTROL VALVE, INTEGRAL STOPS, BRUSHED NICKEL FINISH.	PROVIDE WITH ASSE 1016 MIXING VALVE. PROVIDE WITH 12"x20" SCHLUTER KERDI-BOARD SHOWER NICHE.	1/2"	1/2"	2" 11	72" TO HEAD, 42" TO HAND HELD SHOWER AND VALVE			
SK-1A	FARMHOUSE SINK, SINGLE COMPARTMENT - ADA COMPLIANT	ELKAY	ELGUAD2519PDWH0	SINGLE COMPARTMENT UNDERMOUNT SINK, 25" X 18-1/2" X 5-1/2" D, MOLDED QUARTZ-RESIN REAR-CENTER DRAIN.	KOHLER PURIST SEMI-PROFESSIONAL HIGH-ARC WITH 3-FUNCTION SPRAYHEAD, SINGLE LEVER HANDLE, FLEXIBLE SUPPLY LINES, CERAMIC DISC VALVING, AERATOR, BRUSHED NICKEL FINISH. PROVIDE WITH ASSOCIATED 3-1/2" SINK STRAINER BASKET, STRAINER, AND TAILPIECE. COORDINATE SINGLE CUTOUT HOLE WITH G.C. FOR FAUCET INSTALL.	1 1/2" P-TRAP, CHROME ANGLE SUPPLIES AND STOPS.	1/2"	1/2"	2" 11	72"			
WB-1	WASHING SUPPLY BOX	SIOUX CHIEF	696-23	WASHING MACHINE OUTLET BOX, FIRE RATED, WHITE FINISH, 2" DRAIN, DOMESTIC HOT AND COLD WATER VALVES		2" P-TRAP WITH 24" STANDPIPE IN WALL.	1/2"	1/2"	2" 11	2" COORDINATE ROUGH-IN ELEVATION WITH OWNER.			
WC-1A	WATER CLOSET - FLOOR MOUNT - ADA COMPLIANT	KOHLER	CIMARRON	VITREOUS CHINA, ELONGATED BOWL, 1.28 GPF	3/8" ANGLE SUPPLY LOOSE KEY STOP, CONTROLS TO OPEN SIDE OF BATHROOM PER ADA.	CACHET ELONGATED SEAT, WHITE, WITH SELF-SUSTAINING CHECK HINGE, FLAT BOLT CAPS, INSULATED TANK.	1/2"	-	4" 2	' 17" TO RIM			



600 Kansas City St. Rapid City, SD 57701

(605) 343-6102 www.teamtsp.com

> Architecture Engineering

CONSULTANTS



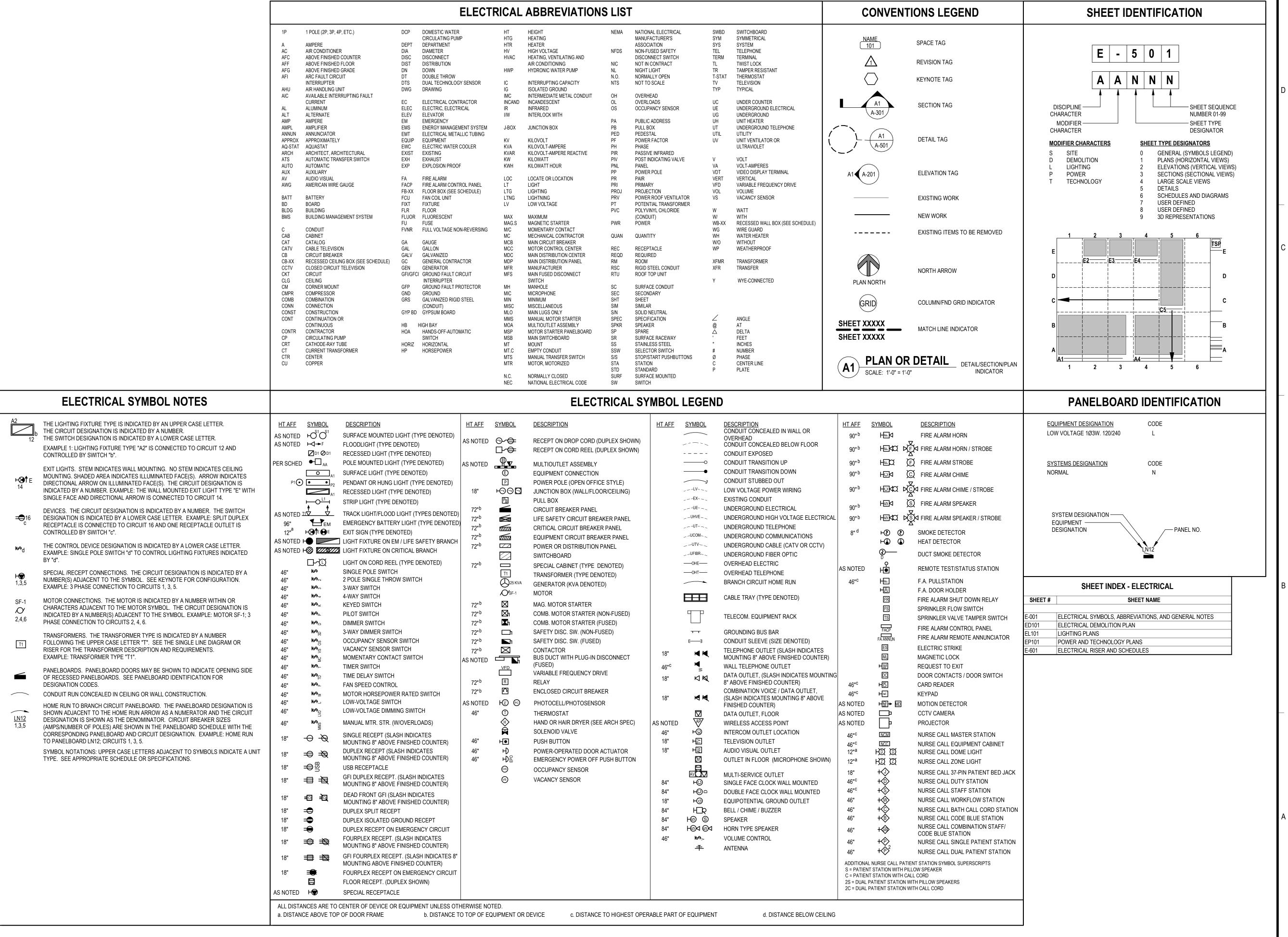
SOUTH DAKOTA DEPARTMENT OF THE MILITARY RENOVATE GENERALS QUARTERS BUILDING

RC CAMP RAPID

ISSUES

ISSUE	DATE	DESCRIPTION	= F
ISSUE DATE 08/31/2023		DRAWN BY CHM	— <u>-</u> L
PROJECT # 03221580		CHECKED BY	
SHEET TITLE			_
MECHA	NICAL		L
MECHA SCHEDU		-	
	JLES	-	- - -





TSP, Inc 600 Kansas City St. Rapid City, SD 57701

(605) 343-6102 www.teamtsp.com

> Architecture Engineering Planning

CONSULTANTS



SOUTH DAKOTA DEPARTMENT OF THE MILITARY RENOVATE GENERALS **QUARTERS BUILDING**

RC CAMP RAPID

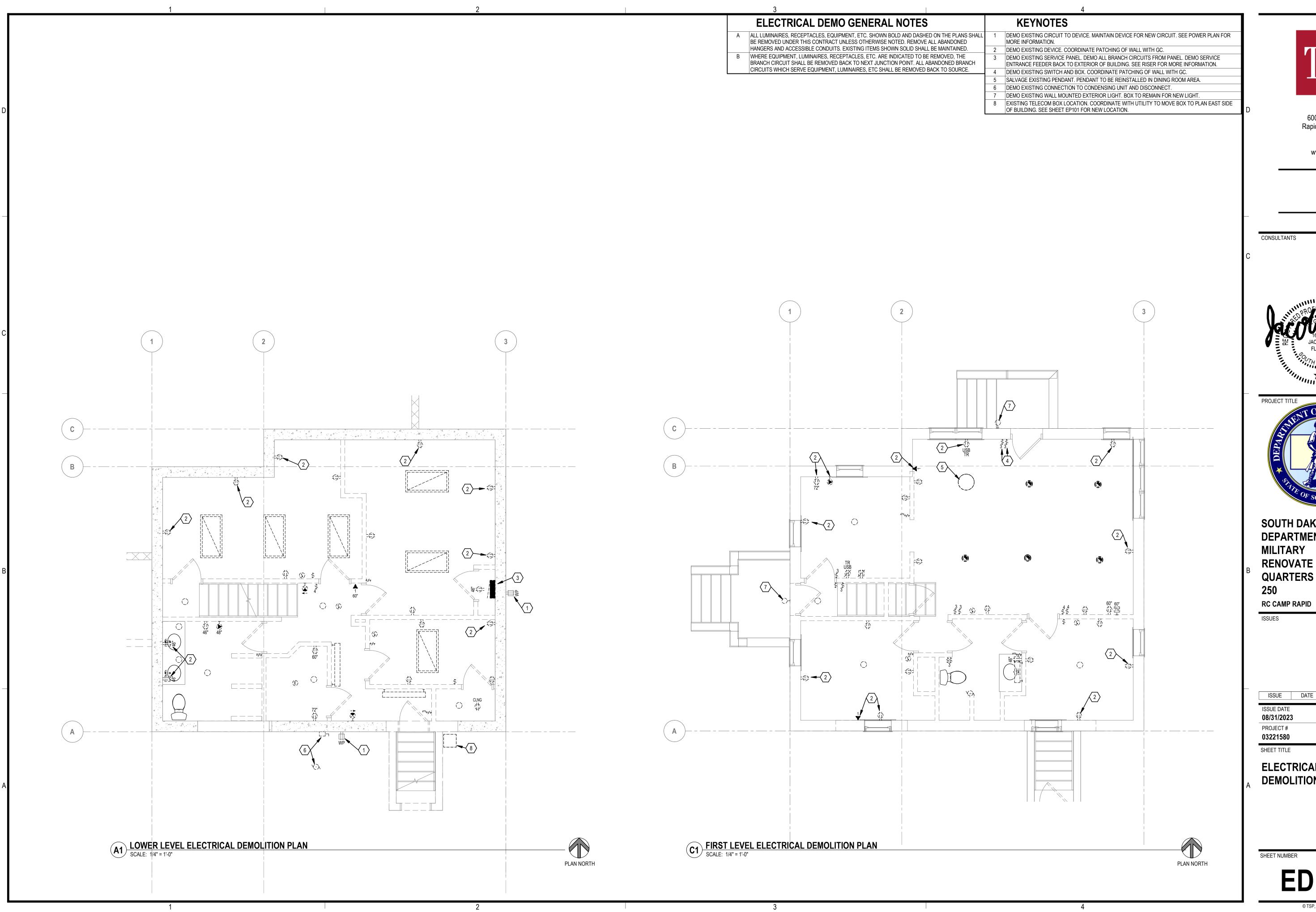
ISSUES

			_
ISSUE	DATE	DESCRIPTION	_ լ
ISSUE DATE 08/31/2023	3	DRAWN BY JJF	-
PROJECT#		CHECKED BY	
03221580		KAO	_ =
SHEET TITLE			->

ELECTRICAL SYMBOLS ABBREVIATIONS, AND **GENERAL NOTES**

CTION

SHEET NUMBER





> (605) 343-6102 www.teamtsp.com

> > Architecture Engineering

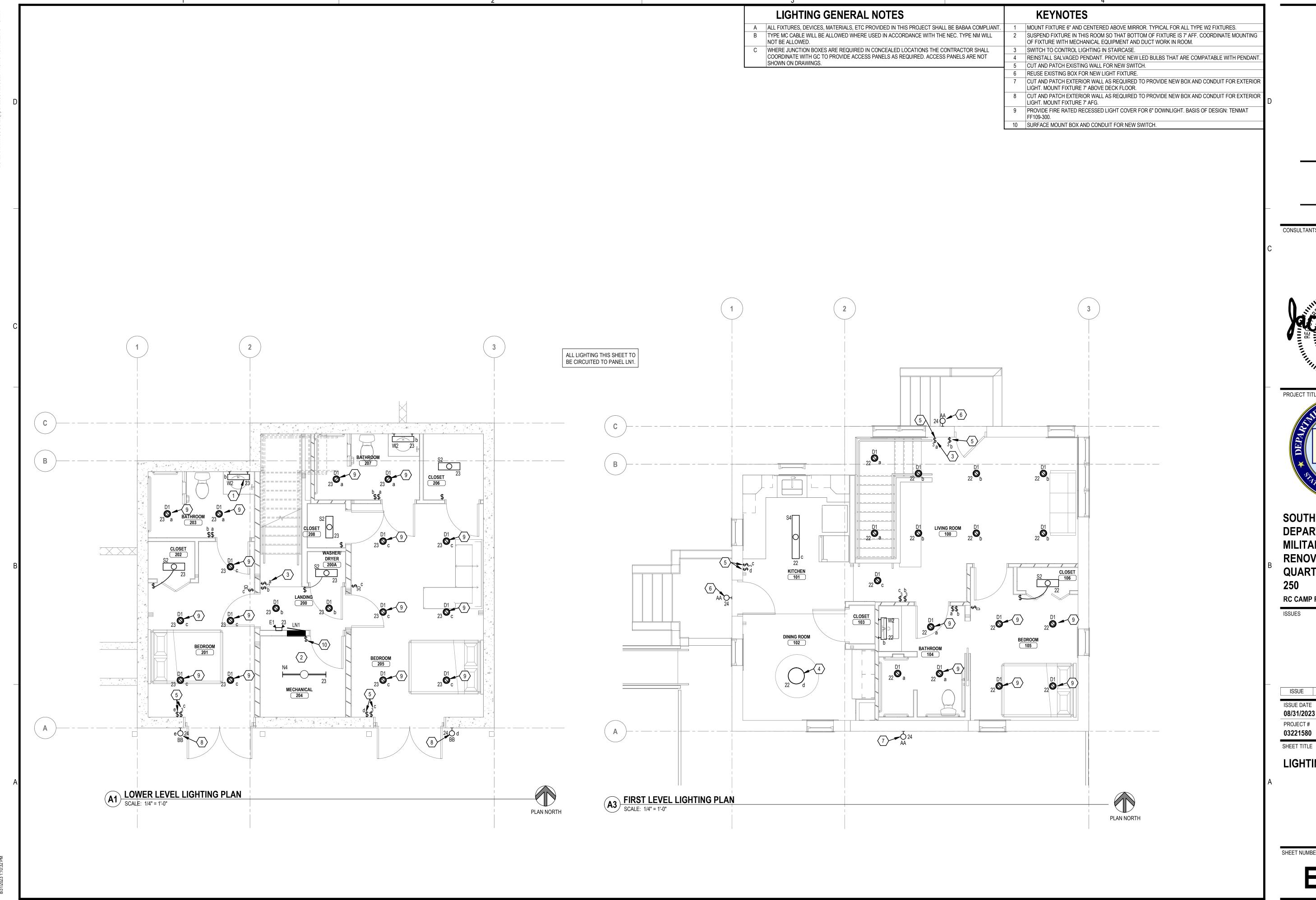
CONSULTANTS





SOUTH DAKOTA DEPARTMENT OF THE MILITARY RENOVATE GENERALS QUARTERS BUILDING

ISSUE	DATE	DESCRIPTION	
ISSUE DATE 08/31/2023	}	DRAWN BY JJF	
PROJECT#	<u>, </u>	CHECKED BY	
03221580 SHEET TITLE		KAO	_
ELECT	RICAL	PLAN	ISTRUCTION D
SHEET NUMB		01	100% CON





> (605) 343-6102 www.teamtsp.com

> > Architecture Engineering

CONSULTANTS

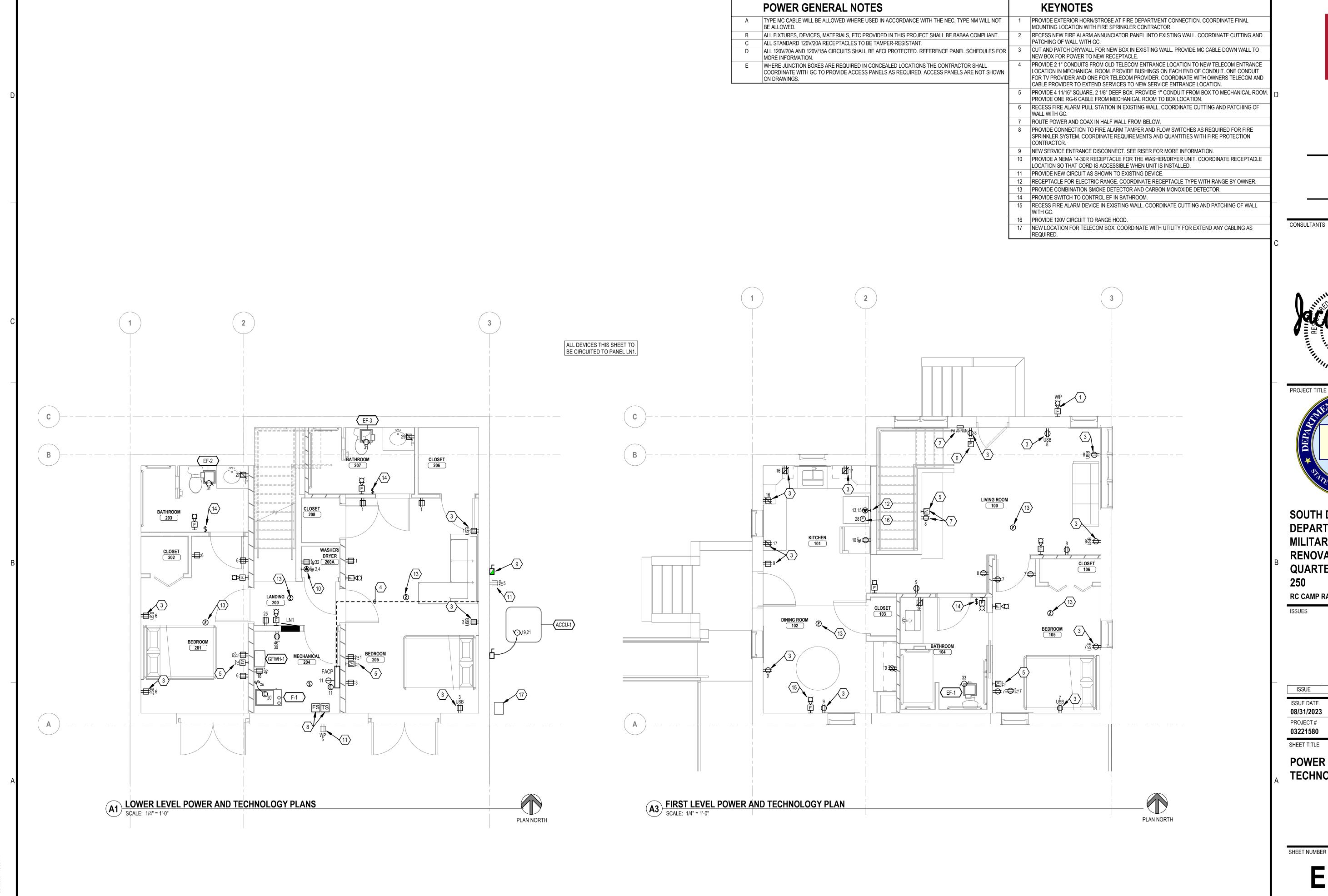




SOUTH DAKOTA DEPARTMENT OF THE MILITARY RENOVATE GENERALS QUARTERS BUILDING

RC CAMP RAPID

ISSUE	DATE	DESCRIPTION	
ISSUE DATE 08/31/2023		DRAWN BY JJF	- 四
PROJECT # 03221580		CHECKED BY KAO	
LIGHTII	NG PL	ANS	STRUCTION [
SHEET NUMBE		01	00N %





> (605) 343-6102 www.teamtsp.com

> > Architecture Engineering Planning





SOUTH DAKOTA DEPARTMENT OF THE MILITARY RENOVATE GENERALS QUARTERS BUILDING

RC CAMP RAPID

100115	D. T. T.	DECODIDATION	– (
ISSUE	DATE	DESCRIPTION	<u> </u>
ISSUE DATE		DRAWN BY	_ <u>-</u>
08/31/2023	3	JJF	_ F
PROJECT#		CHECKED BY	_
03221580		KAO	_
SHEET TITLE			_ >

POWER AND

TECHNOLOGY PLANS

THE SIZES SHOWN IN NEC TABLE 250.66. WHERE THE SUPPLY CONDUCTORS ARE LARGER THAN 1100KCMIL IS NOT LESS THAN 12 1/2 PERCENT OF THE AREA OF THE LARGEST PHASE CONDUCTOR.

F. BOND METAL WATER PIPING AND OTHER METAL PIPING SYSTEMS WITH BONDING JUMPER SIZED PER NEC.

G. GROUND ELECTRODE CONDUCTOR TO GROUNDING ELECTRODE, AS SHOWN. #4 AWG COPPER CONDUCTOR.

KEYNOTES

NEMA 3R ENCLOSURE.

DEMO EXISTING SERVICE ENTRANCE FEEDERS BACK TO EXTERIOR OF BUILDING AND RE-ROUTE TO NEW DISCONNECT. CONTRACTOR TO CONFIRM LOCATION WHERE FEEDERS ENTER BUILDING BELOW

DEMO EXISTING PANEL. DEMO ALL BRANCH CIRCUITS ASSOCIATED WITH PANEL. EXTEND CIRCUITS

DISCONNECT PANEL FROM EXISTING BUILDING GROUNDING SYSTEM. GROUNDING SYSTEM TO RECONNECT TO NEW SERVICE ENTRANCE DISCONNECT. SEE NEW RISER DIAGRAM FOR MORE

4 PROVIDE A NEW 100A, SERVICE ENTRANCE RATED, FUSED DISCONNECT SWITCH, FUSED AT 100A IN A

5 CONNECT NEW SERVICE ENTRANCE DISCONNECT TO EXISTING BUILDING GROUNDING SYSTEM.

VERIFY GROUNDING REQUIREMENTS MEET DETAIL C1 THIS SHEET AND NEC.

THAT REMAIN FROM THE GARAGE TO THE NEW PANEL LOCATION.

	LIGHTING FIXTURE SCHEDULE										
TYPE	MANUFACTURER	CATALOG SERIES	DESCRIPTION	VOLTAGE	MOUNTING	BALLAST/DRIVER	LAMP	WATTAGE	EQUIVALENTS		
D1	JUNO	65SEMW HL SWW5 90CRI; QC6 W G J6	6" LED DOWNLIGHT AND HOUSING, 1200LM, 35K, RATED FOR USE IN SHOWERS, BABAA COMPLIANT	120 V	RECESSED/CEILING	0-10V DIMMING	LED	10 W	SUBMIT FOR PRIOR APPROVAL		
E1	LITHONIA	ELM4L UVOLT LTP	LED BUG-EYE, 700LM, EMERGENCY BATTERY BACK-UP, BABAA COMPLIANT	120 V	WALL	LED STANDARD	LED	1 W	SUBMIT FOR PRIOR APPROVAL		
N4	LITHONIA	ZL1D L48 SMR 3000 FST MVOLT 35K 80 CRI WH	4' LED STRIP LIGHT, 3000LM, BABAA COMPLIANT	120 V	SUSPENDED	LED STANDARD	LED	30 W	SUBMIT FOR PRIOR APPROVAL		
S2	LITHONIA	LBL2 2000LM 80CRI 35K NODIM MVOLT	2' LED WRAP, 2000LM, 35K, BABAA COMPLIANT	120 V	SURFACE/CEILING	0-10V DIMMING	LED	17 W	SUBMIT FOR PRIOR APPROVAL		
S4	LITHONIA	LBL4 3000LM 80CRI 35K NODIM MVOLT	4' LED WRAP, 3000LM, 35K, BABAA COMPLIANT	120 V	SURFACE/CEILING	0-10V DIMMING	LED	17 W	SUBMIT FOR PRIOR APPROVAL		
W2	LUMINII	EXPV-24"-72SO-35K-F-SA	2' LED VANITY, 3500LM, 35K, BABAA COMPLIANT	120 V	WALL	LED STANDARD	LED	22 W	SUBMIT FOR PRIOR APPROVAL		
AA	LITHONIA	WDGE2 P2 35K 80CRI VW MVOLT SRM PE DDBXD	LED EXTERIOR WALL PACK, 2000LM, INTEGRAL PHOTOCELL, BABAA COMPLIANT	120 V	WALL	LED STANDARD	LED	20 W	SUBMIT FOR PRIOR APPROVAL		
BB	LITHONIA	WDGE2 P2 35K 80CRI VW MVOLT SRM DDBXD	LED EXTERIOR WALL PACK, 2000LM, BABAA COMPLIANT	120 V	WALL	LED STANDARD	LED	20 W	SUBMIT FOR PRIOR APPROVAL		

N	LOAD DESCRIPTION	RATING	Р	СКТ	Α		В		CKT P	P	RATING	LOAD DESC	RIPTION	
1	REC BEDROOM 205	20 A	1	1	0.9	2.2			2		00.4	DEC MAGNED/S	>D\/ED 000 A	
1	REC - 203, 207, 206, 200	20 A	1	3			0.5	2.2	4	2	30 A	REC - WASHER/ [JRYER 200A	
1	REC - EXTERIOR	20 A	1	5	0.4	1.1			6	1	20 A	REC - BEDROOM	201	
1	REC - BEDROOM 105	20 A	1	7			1.1	1.3	8	1	20 A	REC - LIVING ROO	OM 100	
1	REC ROOM 102, 100, 104	20 A	1	9	0.9	1.0			10	1	20 A	REC - FRIDGE	REC - FRIDGE	
3	FACP	20 A	1	11			0.2	0.0	12	1	20 A	EXISTING GARAG	SE OUTLETS	
	DANIOE		2	13	4.2	0.0			14	1	20 A	EXISTING GARAG	SE OUTLETS	
4	RANGE	50 A		15			4.2	0.4	16	1	20 A	REC - KITCHEN 1	01	
1	REC - KITCHEN 101	20 A	1	17	0.4	0.2			18	1	20 A	GFWH-1		
	100114	00.4		19			2.2	0.6	20	1	15 A	F-1		
	ACCU-1	30 A	2	21	2.2	0.2			22	1	20 A	LTG - FIRST FLOO	DR .	
1	LTG - LOWER LEVEL	20 A	1	23			0.3	0.1	24	1	20 A	LTG - EXTERIOR		
1	REC - LANDING 200	20 A	1	25	0.2	0.2			26	1	20 A	REC - BATHROOM 104		
1	REC - BATHROOM 203	20 A	1	27			0.2	0.1	28	1	15 A	KITCHEN HOOD		
1	REC - BATHROOM 207	20 A	1	29	0.2	0.2			30	1	20 A	WATER SOFTENER		
1	EF-2, EF-3	15 A	1	31			0.2	0.2	32	1	20 A	REC - WASHER/ DRYER 200A		
1	EF-1	15 A	1	33	0.1	0.0			34	1	20 A	SPARE		
	SPARE	20 A	1	35			0.0	0.0	36	1	20 A	SPARE		
	SPARE	20 A	1	37	0.0				38	1		SPACE		
	SPARE	20 A	1	39			0.0		40	1		SPACE		
	SPARE	20 A	1	41	0.0				42	1		SPACE		
			TOTAL LOAD				14 kVA							
LOAD CLASSIFICATION			TOTAL AMPS				113 A ESTIMATED					PANEL TOTALS		
REC	CLASSIFICATION	21960 VA			DEMAND 72.77%		15980 VA					PANEL TOTALS	.	
LTG		637 VA			125.00%		796 VA			CONNECTED LOAD: 27839 VA				
SPEC		678 VA			100.00%		678 VA			ESTIMATED DEMAND: 23079 VA				
MTR		4680 V	Ά		123.08%		5760 VA					ECTED CURRENT:		
										EST. DEMAND CURRENT: 96 A				
NOT	ES (N):													

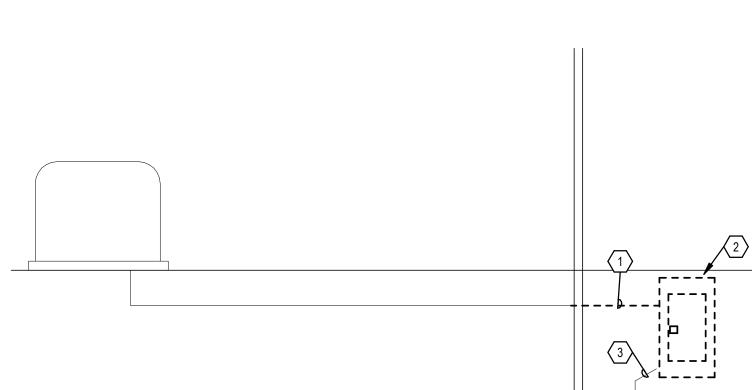
PANELBOARD: LN1

	CIRCUIT SCHEDULE						
MARK	SERVICE	4-WIRE	3-WIRE				
(AMPACITY)	CONDUCTORS	(W/NEUTRAL)	(NO NEUTRAL)				
	PH/N-C	PH/N-GND-C	PH-GND-C				
15	12-3/4"	12-12-3/4"	12-12-3/4"				
20	12-3/4"	12-12-3/4"	12-12-3/4"				
25	10-3/4"	10-10-3/4"	10-10-3/4"				
30	10-3/4"	10-10-3/4"	10-10-3/4"				
35	8-1"	8-10-1"	8-10-3/4"				
40	8-1"	8-10-1"	8-10-3/4"				
45	6-1 1/4"	6-10-1 1/4"	6-10-1"				
50	6-1 1/4"	6-10-1 1/4"	6-10-1"				
60	6-1 1/4"	6-10-1 1/4"	6-10-1"				
70	4-1 1/2"	4-8-1 1/2"	4-8-1 1/4"				
80	3-1 1/2"	3-8-1 1/2"	3-8-1 1/2"				
90	3-1 1/2"	3-8-1 1/2"	3-8-1 1/2"				
100	2-1 1/2"	2-8-1 1/2"	2-8-1 1/2"				

MISCELLANEOUS NOTES:

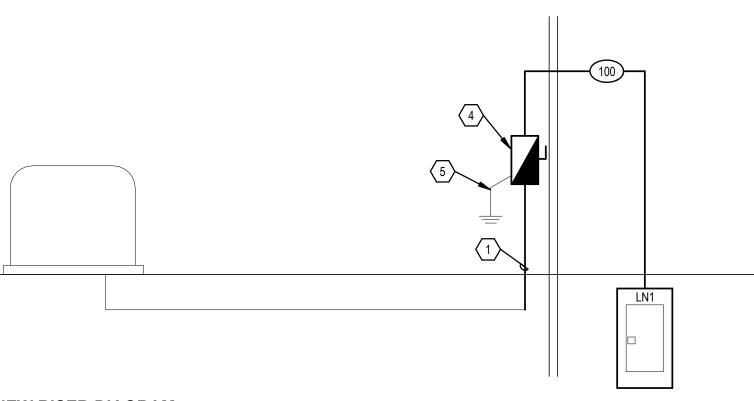
- 1. ALL CIRCUITS (BRANCH, FEEDERS, AND SERVICE) SHALL BE SIZED PER THE OVERCURRENT DEVICE AND THIS CIRCUIT SCHEDULE UNLESS OTHERWISE NOTED. THE ABOVE CHART IS THE MINIMUM CONDUCTOR AND CONDUIT SIZE FOR THE OVERCURRENT DEVICE. CHART DOES NOT INCLUDE REQUIRED VOLTAGE DROP.
- 2. CIRCUITS SHALL BE 4 WIRE (4W) UNLESS DENOTED WITH "3W" (3 WIRE) OR "K" (K RATED), OR IS THE SERVICE ENTRANCE FROM THE UTILITY.
- 3. ALL BRANCH CIRCUITS AND FEEDERS SHALL HAVE AN EQUIPMENT GROUNDING CONDUCTOR.
- 4. ALL CONDUCTORS SHALL BE COPPER.
- 5. THE NEUTRAL SHALL BE THE SAME SIZE AS THE PHASE CONDUCTORS UNLESS 3-WIRE, OR NOTED OTHERWISE.
- 6. THE NUMBER OF PARALLEL SETS IS INDICATED IN PARENTHESIS.
- 7. SINGLE PHASE CIRCUITS SHALL BE SIZED PER THE OVERCURRENT DEVICE UNLESS OTHERWISE NOTED. SIZE THE CONDUCTORS AND CONDUIT PER THE 4-WIRE COLUMN OF THIS CHART BUT REDUCE THE AMOUNT OF PHASE CONDUCTORS AS REQUIRED.







B1 DEMO RISER DIAGRAM
SCALE: NOT TO SCALE



NEW RISER DIAGRAM
SCALE: NOT TO SCALE

600 Kansas City St. Rapid City, SD 57701

(605) 343-6102 www.teamtsp.com

> Architecture Engineering Planning

CONSULTANTS



SOUTH DAKOTA DEPARTMENT OF THE MILITARY RENOVATE GENERALS **QUARTERS BUILDING**

RC CAMP RAPID

ISSUES

ISSUE	DATE	DESCRIPTION	_ (
ISSUE DATE 08/31/2023		DRAWN BY JJF	- <u>:</u>
PROJECT # 03221580		CHECKED BY KAO	_

ELECTRICAL RISER AND SCHEDULES

E-601