STAIR & CONCRETE REPLACEMENT

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Architecture Engineerin
Interior Design Industria

DeMers Avenue, Grand Forks ND 58201

LIST OF DRAWINGS

GENERAL

G001 COVER SHEET

STRUCTURAL

STRUCTURAL NOTES

S401 PLANS AND SECTIONS - LOUNGE DECK

OVERALL PLAN

S402 DETAILS - LOUNGE DECK
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ARCHITECTURAL

A202 LOUNGE LEVEL PLANS & DETAILS

A601 DETAILS

PROJECT LOCATION MAP



TURTLE MOUNTAIN COMMUNITY COLLEGE

PROJECT DESCRIPTION

STAIR AND CONCRETE REPLACEMENT

| CITY | BELCOURT |
|-------|--------------|
| STATE | NORTH DAKOTA |

ISSUE DATES

| CD | CONSTRUCTION DOCUMENTS | 09/08/2023 |
|------|------------------------|------------|
| MARK | DESCRIPTION | DATE |

| PROJECT NO: | 20232950 |
|-------------|----------|
| DRAWN BY: | RGH |
| CHECKED BY: | GL |
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I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Architect under the laws of the State of North Dakota.

Signature:



DRAWING TITLE

COVER SHEET

G001

DESIGN CODES - ALL CODES LATEST EDITION UON:

- AISC AMERICAN INSTITUTE OF STEEL CONSTRUCTION
- AWS AMERICAN WELDING SOCIETY STANDARDS FOR WELDING AS MODIFIED BY AISC SPEC.
- IBC INTERNATIONAL BUILDING CODE ASCE AMERICAN SOCIETY OF CIVIL ENGINEERS - MINIMUM DESIGN LOADS FOR BUILDINGS AND
- OTHER STRUCTURES
- ACI AMERICAN CONCRETE INSTITUTE CRSI CONCRETE REINFORCING STEEL INSTITUTE MANUAL OF STANDARD PRACTICE
- ANSI AMERICAN NATIONAL STANDARDS INSTITUTE
- NOTE: CODES ARE AMENDED AS REQUIRED BY THE STATE BUILDING CODE WITH JURISDICTION GOVERNING THE PROJECT LOCATION.

MATERIAL SPECIFICATIONS:

SEE SPECIFICATIONS FOR COMPLETE SPECIFICATIONS

STRUCTURAL STEEL:

W-FLANGE/W-TEE SHAPES ASTM A992 (Fy=50 KSI) HSS SQUARE/RECTANGULAR SECTIONS ASTM A500 GRADE C (Fy=50 KSI) HSS ROUND SECTIONS ASTM A500 GRADE B (Fy=42 KSI) PLATES/ANGLES/CHANNELS ASTM A36 (Fy=36 KSI) MISCELLANEOUS SHAPES ASTM A36 (Fy=36 KSI) HIGH STRENGTH BOLTS ASTM A325 TYPE N, UON WELDING ELECTRODES **ANCHOR RODS**

ASTM F1554 GR 36, (SEE COLUMN SCHEDULE) **HEADED STUDS** ASTM A108 TYPE B (Fu=65 KSI) PIPE, SCH 40 UON ASTM A53, GRADE B, FY=35 KSI

CONCRETE

REINFORCING BARS

WELDED WIRE REINFORCING (W.W.R.)

ASTM A615 GR 60, DEFORMED, FABRICATE TO CRSI STANDARDS ASTM A185

CONCRETE (28 DAY COMPRESSIVE STRENGTH):

SLABS/WALL/FOOTINGS = 4,000 PSIGROUT (NON-SHRINK/NON-METALLIC) = 5,000 PSI

LIGHT GAUGE STEEL:

SHEET STEEL ASTM A1003 STRUCTURAL GRADE, TYPE H, METALLI COATED G60 MIN SHEET STEEL FOR CLIPS ASTM A653, STRUCTURAL STEEL ZINC COATED C60 MIN, GRADE 50

GENERAL REQUIREMENTS:

- GENERAL CONTRACTOR TO PROVIDE AN AS-BUILT SET OF DRAWINGS FOR EACH SHEET TO EAPC AT THE COMPLETION OF THE PROJECT WITH ALL CHANGES MADE IN THE FIELD CLEARLY
- CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ALL STRUCTURAL SYSTEMS WITH ARCHITECTURAL FINISHES, DETAILS, ETC. CONTRACTOR SHALL COORDINATE MECHANICAL AND ELECTRICAL SYSTEMS TO AVOID CUTTING OR ALTERING STRUCTURAL MEMBERS IN ANY MANNER. DO NOT FIELD CUT ANY STRUCTURAL STEEL BEAM, COLUMN, JOIST, ETC. WITHOUT WRITTEN APPROVAL FROM ENGINEER OF RECORD.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS PRIOR TO FABRICATING ANY STRUCTURAL MEMBER. FIELD MODIFICATIONS ARE NOT ALLOWED WITHOUT WRITTEN APPROVAL FROM ENGINEER OF RECORD.
- THE DESIGN IS BASED ONLY ON THE STRUCTURE IN ITS COMPLETED STATE. CONTRACTOR SHALL TAKE WHATEVER PRECAUTIONS ARE NECESSARY TO WITHSTAND ALL HORIZONTAL AND VERTICAL LOADINGS THAT MAY BE ENCOUNTERED DURING THE CONSTRUCTION PRIOR TO COMPLETION OF THE STRUCTURE.
- THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. PROVIDE CONSTRUCTION SHORING AND BRACING AS NECESSARY TO COMPLETE THE INSTALLATION OF ALL STRUCTURAL MEMBERS/FOOTINGS/ETC.
- NO OPENINGS OR SLEEVES (EXCEPT AS DETAILED) SHALL BE CUT OR PROVIDED IN FOOTINGS, WALLS OR STRUCTURAL FLOOR CONSTRUCTION WITHOUT APPROVAL.
- REFER TO ARCHITECTURAL PLANS FOR DETAILS OF CONCRETE, REVEALS, NOTCHES, REGLETS, DRIPS, BLOCKOUTS AT DOORWAYS, AND WATERPROOFING/DRAINAGE BOARD.
- CONTRACTOR SHALL EMPLOY AND PAY FOR SERVICES OF AN INDEPENDENT TESTING AGENCY TO PERFORM SPECIFIED TESTING AND SPECIAL INSPECTION AS REQUIRED PER THE TECHNICAL SPECIFICATIONS OR AS SPECIFICALLY NOTED.
- CONTRACTOR SHALL BE RESPONSIBLE TO NOTIFY AND COORDINATE INDEPENDENT TESTING AGENCY WORK DURING CONSTRUCTION. EMPLOYMENT OF AGENCY IN NO WAY RELIEVES CONTRACTOR OF OBLIGATION TO PERFORM WORK IN ACCORDANCE WITH REQUIREMENTS OF CONTRACT DOCUMENTS.
- . TESTING AGENCIES SHALL PROMPTLY SUBMIT COPIES OF SPECIAL INSPECTION AND TESTING REPORT TO ENGINEER OF RECORD UON.

GENERAL PROJECT NOTES:

- REMOVE, SALVAGE, AND REINSTALL ALL EXISTING SIGNAGE.
- ALL EXTERIOR STOOPS AND SLABS SHALL SLOPE A MINIMUM OF 2% TO THE EAST.
- JOINTS AT VERTICAL SURFACES SHALL RECEIVE MASTERSEAL NP 2 SEALANT. JOINTS AT HORIZONTAL SURFACES SHALL RECEIVE MASTERSEAL SL 2 SEALANT.

CAST-IN-PLACE CONCRETE:

FOUNDATION PLAN.

- 1. CONCRETE SHALL BE A REDI-MIXED PRODUCT (PLANT MIXED) ACCORDING TO APPROVED CONCRETE MIX DESIGN SUBMITTALS. CONTRACTOR SHALL PROVIDE CONCRETE MIX DESIGN SUBMITTAL TO ENGINEER OF RECORD. CONCRETE PLACEMENT SHALL NOT COMMENCE WITHOUT APPROVED CONCRETE MIX DESIGN SUBMITTALS. CONCRETE SHALL NOT BE MIXED ON SITE EXCEPT FOR SMALL PATCHING. DO NOT ADD WATER TO REDI-MIXED CONCRETE AT THE SITE EXCEPT TO REPLACE WATER LOST DURING TRANSPORTATION OF THE CONCRETE
- FROM THE REDI-MIX PLANT TO THE SITE. 2. CONCRETE MIX DESIGN SHALL BE PREPARED WITH ONE OF THE FOLLOWING TWO OPTIONS: A. CONCRETE REDI-MIX PLANT SHALL PROVIDE A HISTORY FOR EACH MIX DESIGN. THE HISTORY SHALL SHOW TESTED CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS FOR A MINIMUM OF 30 CONSECUTIVE TESTS OR TWO GROUPS OF CONSECUTIVE TESTS
- TOTALING AT LEAST 30 TESTS. B. AN INDEPENDENT LABORATORY SHALL PREPARE EACH MIX DESIGN. THE MIX DESIGN
- SUBMITTAL SHALL BE SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER. THE COST TO PREPARE THE MIX DESIGN SUBMITTAL AND ANY ASSOCIATED COSTS FOR TESTING TO PROVIDE A HISTORY SHALL BE PAID BY THE CONTRACTOR.
- 4. CONCRETE CURING ACCELERATORS SUCH AS CALCIUM CHLORIDE ARE NOT ALLOWED
- WITHOUT WRITTEN APPROVAL FROM THE ENGINEER OF RECORD. FOOTING STEPS SHALL BE GENERALLY LOCATED WHERE INDICATED ON THE FOOTING AND
- 6. ALL CONTINUOUS FOOTINGS SHALL BE CENTERED BELOW WALLS UNLESS OTHERWISE NOTED ON THE PLANS.
- 7. ALL SPREAD FOOTINGS SHALL BE CENTERED BELOW WALLS/PIERS/COLUMNS UNLESS OTHERWISE NOTED ON THE PLANS.
- 8. PROVIDE A ROUGH FINISH SURFACE AT THE TOP OF ALL FOOTINGS, ROUGHENED AT JOINTS TO PIERS OR WALLS.
- 9. DOWEL VERTICAL WALL REINFORCING TO FOOTING OR THICKENED SLAB WITH BARS OF THE SAME SIZE AND SPACING AS THE VERTICAL WALL REINFORCING UNLESS OTHERWISE NOTED. PROVIDE A STANDARD HOOK AT THE BOTTOM OF THE DOWEL AND EMBED INTO THE
- FOOTING. PROVIDE A CLASS "B" LAP WITH THE WALL VERTICAL REINFORCING. 10. PERIMETER FOUNDATION WALL CONSTRUCTION JOINTS SHALL BE SPACED AT NOT MORE
- THAN 50 FEET ON CENTER. 11. VERIFY WITH ARCHITECT ALL FLOOR SLAB DEPRESSIONS AND DETAILS RELATED TO ARCHITECTURAL FINISHES. VERIFY WITH MECHANICAL DRAWINGS ALL HOUSEKEEPING PAD LOCATIONS AND SIZES. FLOOR SLAB DEPRESSIONS AND MECHANICAL HOUSEKEEPING PADS ARE NOT TYPICALLY SHOWN ON THE STRUCTURAL DRAWINGS.
- 12. PROVIDE KEYED CONSTRUCTION JOINTS (KCJ) AT CONCRETE SLAB ON GRADE FLOORS AT LOCATIONS SHOWN ON ALL PLANS. JOINTS SHALL BE DOWELED TOGETHER USING SMOOTH STEEL DOWEL BARS INSERTED INTO PLASTIC SLEEVES (GREENSTREAK SPEED DOWELS OR EQUAL) AS SHOWN ON THE KCJ DETAIL.
- 13. PROVIDE SAW CUT CONTROL JOINTS (CJ) AT CONCRETE SLAB ON GRADE FLOORS AT LOCATIONS SHOWN ON PLANS WITHIN 18 HOURS OF CONCRETE PLACEMENT.
- 14. AT DROPPED SLABS ON COMPACTED SAND BASE, MAINTAIN CONCRETE THICKNESS AND WWF REINFORCING. LIMITS OF DROPPED AND DEPRESSED FLOOR AREAS TO BE LOCATED FROM ARCHITECTURAL PLANS.
- 15. CONCRETE MIX DESIGN PARAMETERS: NORMAL WEIGHT; FLY ASH LIMITED TO 25%. BY MASS; MAXIMUM W/C RATIO = 0.50; SLUMP OF 4" (+/- 1"); MAXIMUM AGGREGATE = 1 INCH; ADMIXTURES AS PER APPROVED MIX DESIGN

CONCRETE:

- CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT EXISTING SOILS FROM FREEZING OR REMOVE THEM PRIOR TO CONSTRUCTION.
- CONCRETE SHALL NOT BE CAST AGAINST FROZEN SOILS. FROZEN SOILS SHALL BE REMOVED
- PRIOR TO CASTING FOOTINGS. REPLACE FROZEN SOILS WITH COMPACTED ENGINEER FILL. INSULATED PROTECTIVE BLANKETS OR OTHER SUPPLEMENTAL HEAT SHALL BE USED TO PROVIDE SUFFICIENT PROTECTION TO MAINTAIN DESIGNED CURING TEMPERATURES. CONCRETE THAT FREEZES OR CRACKS DUE TO FREEZING SHALL BE REPLACED BY THE
- CONTRACTOR WITH NO EXPENSE TO THE OWNER. PROVIDE A MINIMUM 6" THICK DRAINAGE COURSE BELOW ALL INTERIOR FLOOR SLABS ON GRADE UNLESS NOTED OTHERWISE ON PLANS OR SPECIFICATIONS (DRAINAGE COURSE SHALL BE ASTM C33 FINE AGGREGATE OR SIZE #8 COARSE AGGREGATE BETWEEN DRAINAGE COURSE
- CONCRETE FOOTINGS, WALLS, AND OTHER CONCRETE COMPONENTS SHALL BE PROTECTED FROM FREEZING FOR A MINIMUM OF 7 DAYS CURING TIME AS FOLLOWS:

| REQUIRED CONCRETE TEMPERATURES | | |
|---|---------------------------------|---------|
| AIR TEMPERATURE | SECTION SIZE, MINIMUM DIMENSION | |
| | < 12" | 12"-36" |
| MINIMUM CONCRETE TEMPERATURE AS PLACED AND MAINTAINED | | |
| | 55° F | 50° F |
| MINIMUM CONCRETE TEMPERATURE AS MIXE | D FOR INDICATED | WEATHER |
| ABOVE 30° F | 60° F | 55° F |
| 0° F TO 30° F | 65° F | 60° F |
| BELOW 0° F | 70° F | 65° F |

CONCRETE REINFORCING:

1. ALL REINFORCING BAR LAPS SHALL BE CLASS "B", UNLESS NOTED OTHERWISE, PLUS 6" AT NON-CONTACT SPLICES. SEE MASONRY/CONCRETE NOTES FOR BAR LAP SPLICE LENGTHS.

2. PROVIDE CONCRETE COVER AT REINFORCING PER THE FOLLOWING:

| CONCRETE COVER AT STEEL REINFORCING | |
|---|---------------|
| REINFORCING LOCATION | MINIMUM COVER |
| CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH | 3" |
| CONCRETE EXPOSED TO EARTH OR WEATHER (#6 THROUGH #18 BAR) | 2" |
| CONCRETE EXPOSED TO EARTH OR WEATHER (#5 BAR OR SMALLER) | 0'-1 1/2" |
| CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND: SLABS, WALLS OR JOISTS | |
| #14 AND #18 BARS | 1 1/2" |
| #11 BARS AND SMALLER | 3/4" |
| BEAMS, COLUMNS | |
| PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS | 1 1/2" |

- 3. REINFORCE FOOTINGS BELOW ALL FOUNDATION WALLS WITH A MINIMUM OF TWO #5 BARS CONTINUOUS LONGITUDINAL UNLESS NOTED OTHERWISE.
- 4. REINFORCING IN WALLS AND FOOTINGS TO BEND 2'-6" AROUND ALL CORNERS OR USE 5'-0" CORNER BARS.
- 5. CONTRACTOR SHALL SUBMIT STEEL REINFORCEMENT SHOP DRAWINGS (INCLUDING BAR SCHEDULES, SHAPES OF BENT BARS, SPACING OF BARS AND LOCATION OF SPLICES) TO ENGINEER OF RECORD. 6. PLACEMENT OF STEEL REINFORCING SHALL BE IN ACCORDANCE WITH CRSI MANUAL OF
- STANDARD PRACTICE. POSITION, SUPPORT AND SECURE REINFORCEMENT AGAINST DISPLACEMENT. DO NOT DEVIATE FROM REQUIRED POSITION REINFORCEMENT SHALL BE INSPECTED BY THE SPECIAL INSPECTION AGENCY ACCORDING TO
- INSPECTION AGENCY 24 HOURS PRIOR TO REQUESTED INSPECTION. 8. DO NOT WELD REINFORCING UNLESS SPECIFICALLY SHOWN ON PLANS OR WITH WRITTEN PERMISSION FROM ENGINEER OF RECORD.

THE SPECIAL INSPECTIONS AND TESTING SCHEDULE. CONTRACTOR SHALL NOTIFY SPECIAL

STRUCTURAL STEEL:

- 1. TOP OF STEEL FRAMING IS INDICATED ON PLAN BY () WHICH INDICATIES THE ELEVATION OF
- THE TOP OF THE MEMBER. 2. USE 3/4" Ø A325-N HIGH STRENGTH BOLTS AT ALL CONNECTIONS UNLESS LARGER DIA. OR HIGHER STRENGTH BOLTS ARE REQUIRED BY DESIGN. INDEPENDENT AGENCY TO VISUALLY
- INSPECT INSTALLED BOLTS. 3. COLUMN AND BEAM LEVELING PLATES SHALL NOT BE USED.
- 4. COLUMN CAP PLATES ARE 1/2" THICK UNLESS NOTED. SLOPE TO MATCH BEAM SLOPE. . BEAM TO BEAM AND BEAM TO COLUMN SHEAR CONNECTIONS SHALL BE DESIGNED BY STEEL FABRICATOR FOR LOADS SHOWN ON PLANS AND DETAILS. WHERE NO LOADS ARE SHOWN,

DESIGN CONNECTIONS FOR 50% OF TOTAL ALLOWABLE UNIFORM LOAD PER AISC BEAM

- TABLES BASED ON SIZE AND SPAN OF CONNECTED BEAM (TYP.) 6. STEEL FABRICATOR SHALL PROVIDE STRUCTURAL STEEL SHOP DRAWINGS INDICATING MEMBER SIZE, LAYOUT PLAN, WELDED CONNECTIONS, MATERIAL STRENGTHS, WELD SIZES,
- BOLTED CONNECTIONS, ANCHOR BOLT SIZES/LOCATIONS, AND FINISH. 7. DO NOT FIELD CUT, WELD OR MODIFY STRUCTURAL STEEL MEMBERS UNLESS SPECIFICALLY INDICATED ON APPROVED SHOP DRAWING WITHOUT WRITTEN APPROVAL FROM ENGINEER
- 8. ALL STEEL FABRICATION SHALL COMPLY W/ OSHA ERECTION STANDARDS SUBPART R, 29 CFR SUBPART R 1926.750 THROUGH 761.

COLD-FORMED METAL FRAMING:

- 1. ALL FRAMING COMPONENTS SHALL BE CUT SQUARELY FOR ATTACHMENT TO PERPENDICULAR
- MEMBERS, OR AS REQUIRED FOR AN ANGULAR FIT AGAINST ABUTTING MEMBERS. 2. PROVIDE INSULATION EQUAL TO THAT SPECIFIED ELSEWHERE IN ALL MULTIPLY-MEMBER JAMB STUDS AND MULTIPLY-MEMBER HEADERS WHICH WILL NOT BE ACCESSIBLE TO THE
- INSULATION CONTRACTOR. 3. CLEAN ALL SURFACES THAT WILL BE IN CONTACT WITH LIGHT GAUGE FRAMING PRIOR TO
- 4. POSITION ALL MEMBERS PLUMB OR LEVEL AND SQUARE WITH PERPENDICULAR ADJOINING
- MEMBERS
- 5. ALL FRAMING TO BE HELD FIRMLY IN POSITION UNTIL PERMANENTLY FASTENED.
- 6. FULLY SEAT STUDS IN TRACK THE FULL DEPTH OF THE TRACK UNLESS NOTED OTHERWISE ON PLANS.
- DO NOT SPLICE STUDS.
- 8. TRACK SHALL BE SECURELY ANCHORED TO THE SUPPORTING STRUCTURE. SPLICES IN TRACKS SHALL BE SECURELY ANCHORED TO A COMMON STRUCTURAL ELEMENT OR SHALL BE BUTT-WELDED TOGETHER.
- 9. JACK STUDS OR CRIPPLES SHALL BE INSTALLED BELOW WINDOW SILLS, ABOVE WINDOW AND DOOR HEADS AND SHALL BE SECURELY FASTENED TO SUPPORTING MEMBERS
- 10. WALL STUD BRIDGING SHALL BE ATTACHED TO PREVENT STUD ROTATION. BRIDGING ROWS SHALL BE SPACED VERTICALLY AT 48 INCHES ON CENTER.
- 11. FRAMED WALL OPENINGS SHALL INCLUDE HEADERS AND SUPPORTING STUDS. 12. CONSTRUCT CORNERS USING A MINIMUM OF THREE STUDS. DOUBLE OR TRIPLE STUDS AT
- DOOR AND WINDOW OPENINGS AS SHOWN ON THE DRAWINGS. SECURELY FASTEN MULTIPLE STUDS TOGETHER AS SHOWN ON THE DRAWINGS.
- 13. LATERAL DEFLECTION OF STUDS SHALL BE LIMITED TO:
- EXTERIOR STUDS @ BRICK: L/600
- EXTERIOR STUDS @ METAL PANEL: L/240
- 14. UON LIGHT GAUGE CONTRACTOR SHALL DESIGN AND PROVIDE BOXED HEADERS CONSISTING OF (2) TRACK SECTIONS AND (2) STUD SECTIONS AT ALL FRAMED OPENINGS. SEE
- ARCHITECTURAL PLANS FOR OPENING SIZES AND LOCATIONS.
- 15. PROVIDE A MIN. OF (2) FULL HEIGHT STUDS AT JAMBS OF FRAMED OPENINGS. 16. ALL EXTERIOR STUDS SHALL BE A MINIMUM OF 33 MIL THICKNESS. FINAL DESIGN BY LIGHT
- GAUGE SUPPLIER. 17. CONTRACTOR SHALL PROVIDE DELEGATED DESIGN SERVICES AS STATED IN PART 1 OF
- SPECIFICATIONS 05 4000. 18. ANY STUD, JOIST OR OTHER INDICATED WITH INCOMPLETE DESIGNATION (E.G. "6" MTL STUDS)

AND NOT A COMPLETE DESIGNATION (E.G. 600S162-43) SHALL BE INTERPRETED AS A

COMPONENT FOR WHICH DELEGATED DESIGN OF THE MISSING INFORMATION IS REQUIRED.

EARTHWORK:

- 1. NOTIFY ENGINEER OF RECORD IMMEDIATELY IF ANY QUESTIONABLE SOIL CONDITIONS ARE ENCOUNTERED DURING EXCAVATION. FOOTING ELEVATIONS AND SUBGRADE PREPARATION ARE SUBJECT TO CHANGE DEPENDING ON CONDITIONS ENCOUNTERED DURING EXCAVATION.
- GEOTECHNICAL ENGINEER SHALL TEST AND/OR INSPECT SUBGRADE BELOW ALL FOOTING EXCAVATIONS PRIOR TO PROCEEDING WITH PLACEMENT OF FOOTINGS. NO FILL SHALL BE PLACED UNTIL EXCAVATION BOTTOM HAS BEEN INSPECTED AND TESTING IS COMPLETE.

CONTRACTOR SHALL NOTIFY TESTING AGENCY 24 HOURS MINIMUM PRIOR TO INSPECTION.

ENGINEERED FILL BELOW FOOTINGS AND SLAB WHERE REQUIRED SHALL BE COMPACTED TO A

- MINIMUM OF 95% OF STANDARD PROCTOR UNLESS NOTED OTHERWISE ON PLANS OR 4. ALL FOOTINGS SHALL BEAR ON UNDISTURBED NATURAL SOIL OR ENGINEERED FILL CAPABLE
- OF SAFELY SUPPORTING A UNIFORM LOAD EQUAL TO THE ALLOWABLE SOIL BEARING PRESSURE STATED IN THE DESIGN NOTES. MATERIAL FOR BACKFILL SHALL BE CLEAN, FREE OF WOOD SCRAPS OR OTHER DELETERIOUS
- SUBSTANCES, PLACED IN 8" COMPACTED LIFTS. BACKFILLING AGAINST THE FOUNDATION WALLS SHALL BE DONE CAREFULLY TO AVOID DAMAGE TO THE FOUNDATION WALLS, FOOTINGS, PIPES, CONDUITS, ETC. IN LAYERS NOT EXCEEDING 12" THICK AND PROPERLY COMPACTED. EXTEND BACKFILL UP EVENLY ON EACH SIDE OF THE WALL. BASEMENT FOUNDATION WALLS OR OTHER WALLS WITH DIFFERENTIAL
- SOIL ELEVATIONS DESIGNED TO RETAIN EARTH NEED NOT BE BRACED PRIOR TO BACKFILLING. 7. THE EXISTING ON-SITE SOIL IS SUITABLE MATERIAL. PROVIDED THAT IT CAN BE CONDITIONED AND PLACED DURING THE PREVAILING WEATHER CONDITIONS EXPECTED DURING THE
- BACKFILL OPERATIONS. CONTRACTOR MAY ASSUME THE USE OF THE ON-SITE MATERIALS EXCEPT WHERE
- SPECIFICALLY NOTED OTHERWISE, AND THEN ONLY IF IT CAN BE PLACED TO THE SPECIFIED WATER CONTENT AND RELATIVE COMPACTION REQUIREMENTS.
- WHERE THE EXISTING ON-SITE SOIL CANNOT BE ADEQUATELY PLACED DUE TO WEATHER OR OTHER SITE CONDITIONS, THE CONTRACTOR SHALL USE GRANULAR ENGINEERED FILL.



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3100 DeMers Avenue, Grand Forks ND 58201

TURTLE MOUNTAIN

COMMUNITY COLLEGE

PROJECT DESCRIPTION

STAIR AND CONCRETE REPLACEMEN

BELCOURT NORTH DAKOTA

ISSUE DATES

CD CONSTRUCTION DOCUMENTS 09/08/2023

| PROJECT NO: | 202329 |
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| DRAWN BY: | R |
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STRUCTURAL NOTES

OVERALL PLAN

KEYNOTE LEGEND:

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01 REMOVE AND REPLACE EXISTING CONCRETE SIDEWALK W/ 4" (MIN) THICK CONC OVER 6" DRAINAGE COURSE W/ REINFORCED W/ #4 @ 18" O/C EA WAY. MATCH CURRENT COLOR AND FINISH. SHOWN BY

O2 REMOVE AND REPLACE EXISTING CONCRETE RAMP SURFACE W/ 4" (MIN) THICK CONC OVER 6" DRAINAGE COURSE REINFORCED W/ #4 @ 18" O/C EA WAY. MATCH EXISTING SLOPE AND ELEVATIONS. SHOWN BY WHERE RAMP SLAB SITS ON TOP OF EXISTING FOUNDATION WALL, SAWCUT TOP OF FOUNDATION WALL FOR CLEAN TOOLED JOINT LINE AT FACE OF WALL. SEE 3/S402 CONTINUE AS NEEDED WHERE WALL IS SPALLED AT RAILING ANCHORAGE. PROTECT ALL AREAS NOT INCLUDED IN REPLACEMENT DURING DEMO

REMOVE AND REPLACE EXISTING STAIRS AS NEEDED. MATCH EXISTING STAIR RISE AND RUN. SHOWN BY

04 INSTALL NEW STRUCTURAL FOOTING AND FOUNDATION WALL FOR STOOP

05 EX COLUMN TO REMAIN, TYP -PROTECT DURING CONSTRUCTION

06 REMOVE AND INSTALL NEW HAND AND GUARD RAILS PAINT FINISH, COLOR TO MATCH EXISTING -SEE ARCH. SEE BID ALTERNATE #1 FOR ALL STAINLESS STEEL RAILS

PROVIDE UNIT COST TO REMOVE AND REPLACE EXISTING CONCRETE SIDEWALK WITH 4" (MIN) THICK CONC REINFORCED OVER 6" DRAINAGE COURSE W/ #4 @ 18". EACH WAY AT PARKING LOT LEVEL (TO BE DETERMINED ONSITE DURING CONSTRUCTION) BY OWNER. MAINTAIN SLOPE TOWARD DRAIN IN ALL AREAS

UNIT COST No. 2: STEM WALLS

1. DESCRIPTION: AT THE EXTERIOR FACE OF THE STEM WALLS, PROVIDE UNIT COST TO ROUTE AND SEAL CRACKS. ROUTE A WIDENED GROOVE AT CRACK SURFACE WITH SAW OR GRINDER, AND FILL GROOVE WITH MASTERSEAL NP 2 SEALANT

2. UNIT OF MEASUREMENT: LINEAR FOOT

F EAPC

tecture Engineering

Design Industrial

 Interior Design
 Industrial

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TURTLE MOUNTAIN COMMUNITY COLLEGE

PROJECT DESCRIPTION

STAIR AND CONCRETE REPLACEMENT

CITYBELCOURTSTATENORTH DAKOTA

ISSUE DATES

CD CONSTRUCTION DOCUMENTS 09/08/2023

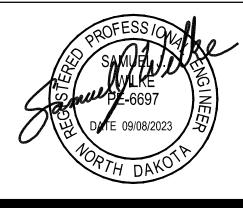
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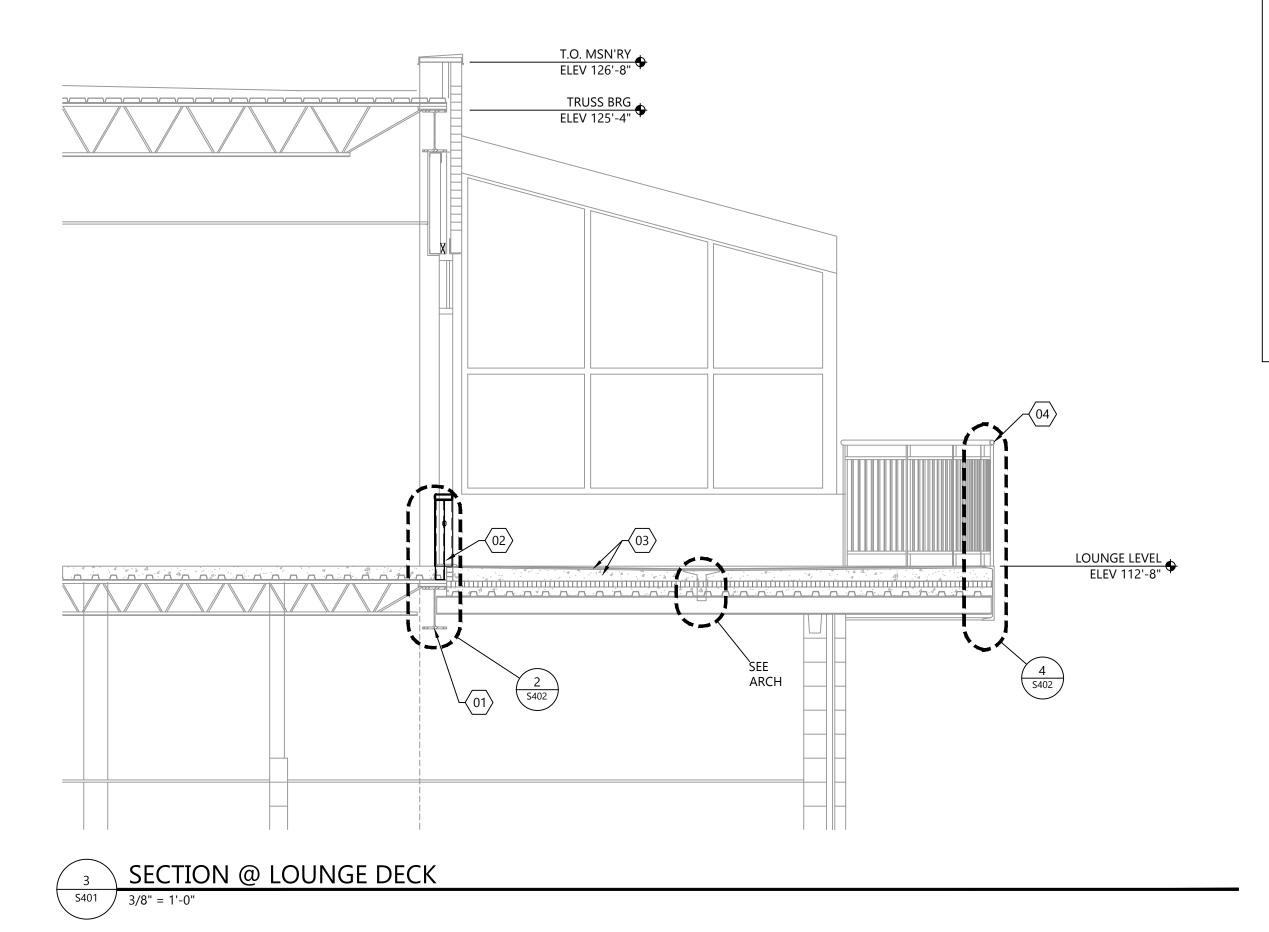
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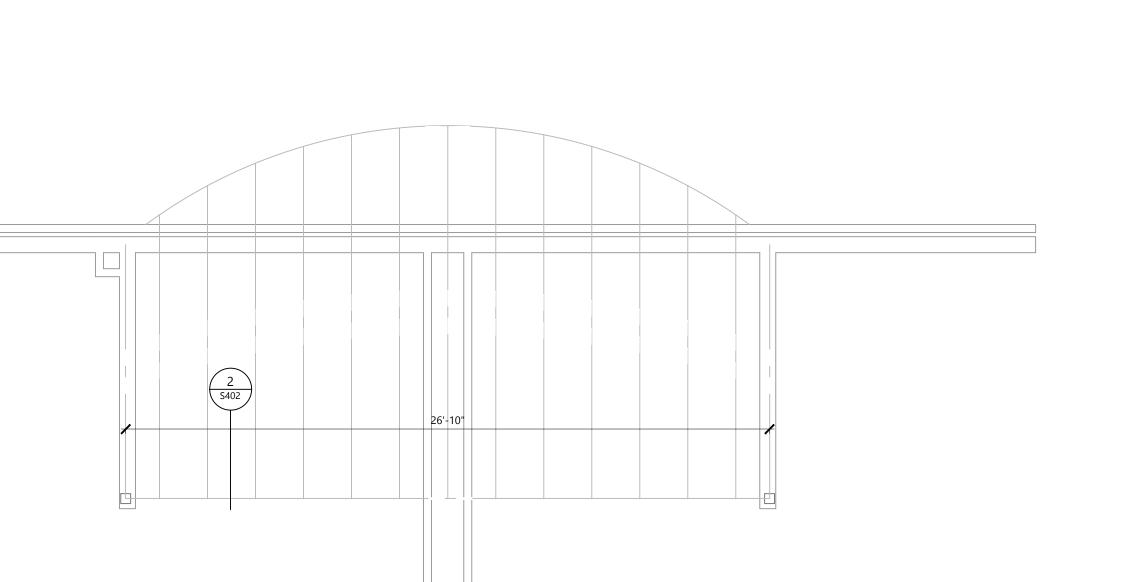
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OVERALL PLAN

5201





KEYNOTE LEGEND:

 $\langle \#\# \rangle$ < < INDICATES KEYNOTE ON PLAN

01 REMOVE CORROSION AT EXISTING BEAM AND CONNECTIONS OF FRAMING AT DECK OVERHEAD WITH WIRE WHEEL OR SANDBLASTING AND REPORT SECTION LOSS TO ENGINEER

02 INSTALL NEW KNEE WALL AND STOREFRONT, SEE ARCH

03 REMOVE PORCELAIN TILE, REMOVE NON-STRUCTURAL CONCRETE TOPPING AND WATER PROOFING LAYER, NEW WATERPROOFING AND TOPPING SLAB REINFORCED WITH 6x6-W1.4xW1.4 WWM OVER WP MEMBRANE AND INSULATION. SLOPE TO DRAIN. COORDINATE WITH ARCH

04 REMOVE EXISTING GUARD RAIL AND FABRICATE AND INSTALL NEW GUARD RAIL ONTO EXISTING CURVED STEEL PLATE WITH 3/16" FILLET WELD AROUND SQUARE TUBE POSTS. FINISH WITH PAINT, COLOR TO MATCH EXISTING -SEE ARCH. SEE BID ALTERNATIVE #1 FOR STAINLESS RAIL ASSEMBLY

HSS6x2x1/4" CONT FILLET WELD ALL AROUND TO TOP OF HSS3x3x1/4 POST

HSS3x3x1/4" POST CORE DRILL THROUGH EXISTING SLAB FILLET WELD ALL AROUND

06 TO TOP FLANGE OF EXISTING BEAM

CLIENT

TURTLE MOUNTAIN COMMUNITY COLLEGE

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PROJECT DESCRIPTION

STAIR AND CONCRETE REPLACEMENT

BELCOURT NORTH DAKOTA STATE

ISSUE DATES

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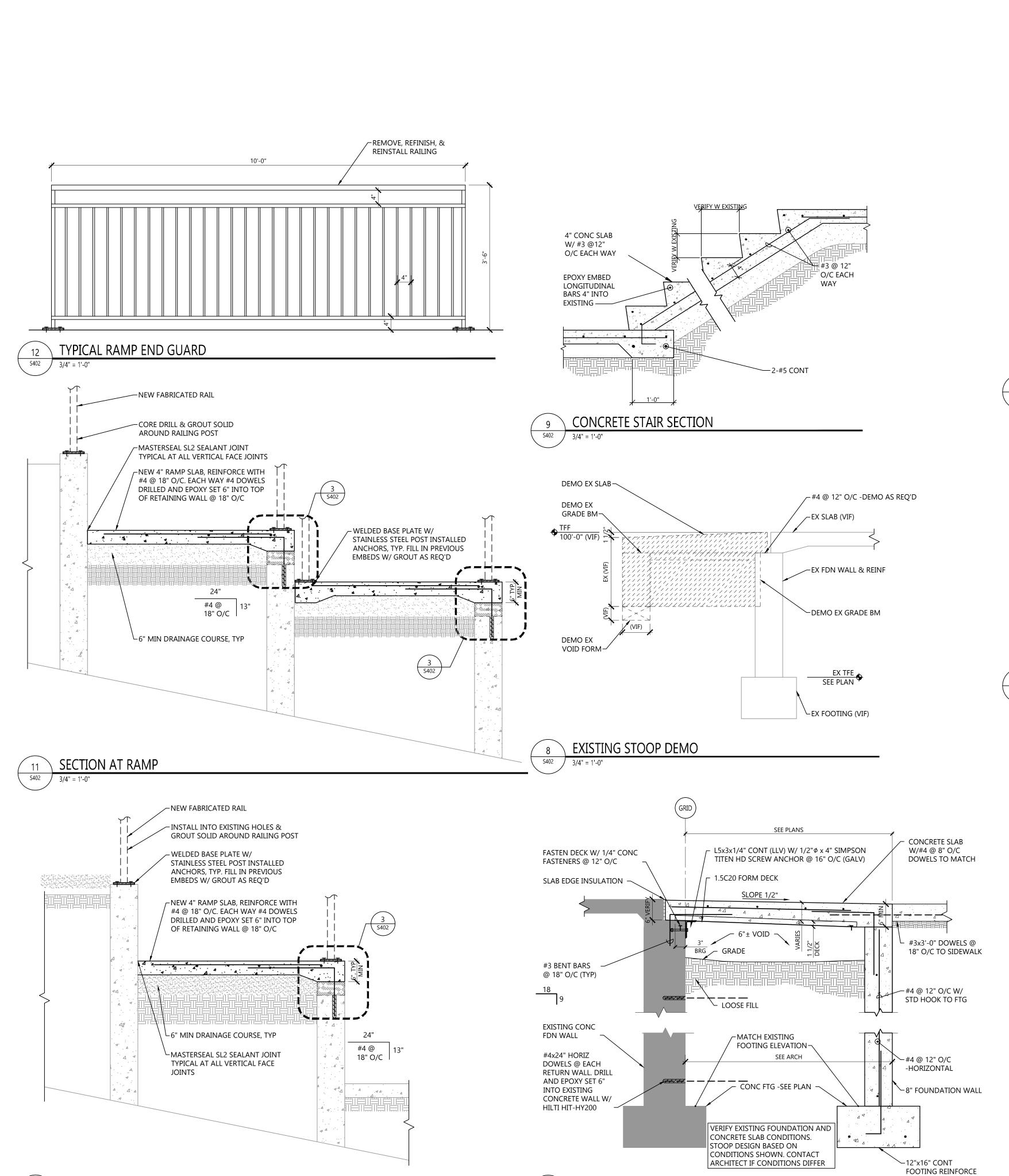


DRAWING TITLE

PLANS AND SECTIONS - LOUNGE DECK

FRAMING PLAN - LOUNGE DECK

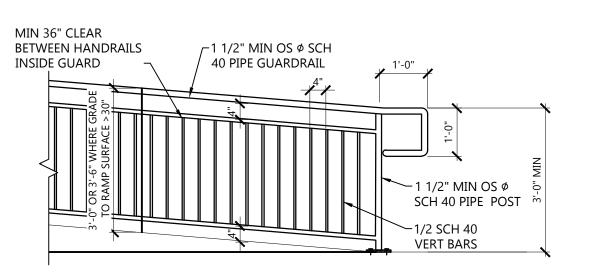
CONTRACTOR RESPONSIBLE FOR SHORING OF BRICK PRIOR TO DEMO



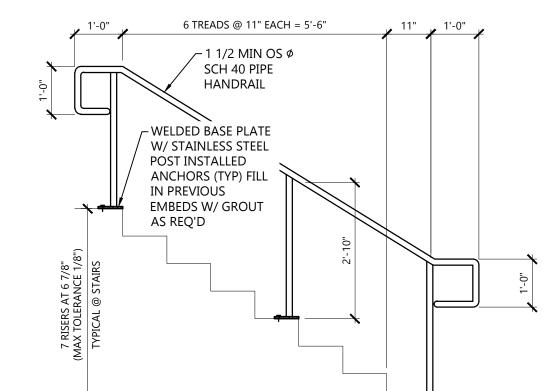
TYPICAL STOOP DETAIL

S402 / 3/4" = 1'-0"

SECTION @ RAMP



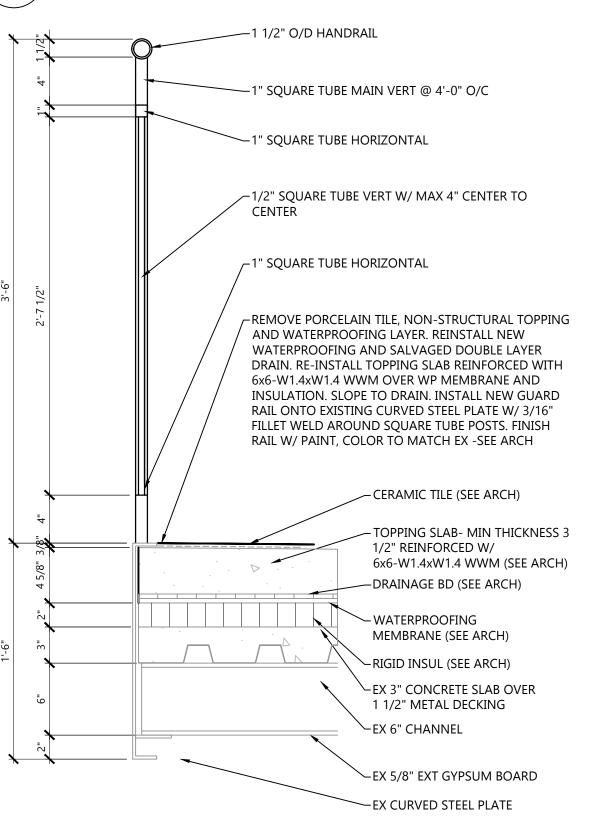
TYP GUARDRAIL AT RAMP



TYP HANDRAIL

WITH (2) #4 CONT

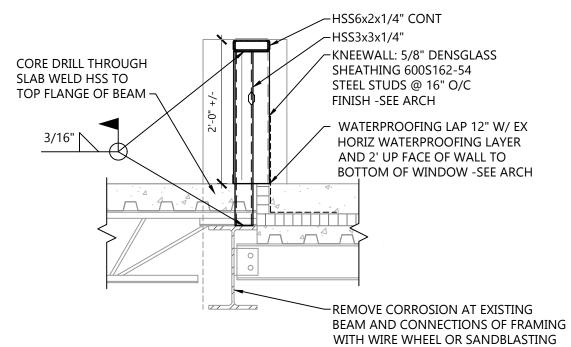
S402 / 1 1/2" = 1'-0"



EX SLAB EDGE DECK W/ NEW GUARDRAIL

REMOVE PORTION OF **RETAINING WALL &** RE-POUR W/ SLAB SAWCUT CLEAN LINE AT TOP OF EXISTING FOUNDATION WALL. ADD TOOLED JOINT AFTER POUR INSTALL MASTERSEAL NP2 SEALANT @ JOINT ∽#4 EPOXY EMBED 6" INTO EXISTING FOUNDATION

RAMP SLAB AT WALL DETAIL



AND REPORT CONDITION TO ENGINEER. REPAIR AT DIRECTION OF ENGINEER BEAM/KNEEWALL SECTION

NOT USED

CLIENT TURTLE MOUNTAIN **COMMUNITY COLLEGE**

TELE **701.775.3000** FAX **701.772.3605** 3100 DeMers Avenue, Grand Forks ND 58201

– www.**eapc.net**

PROJECT DESCRIPTION STAIR AND CONCRETE **REPLACEMENT**

BELCOURT NORTH DAKOTA STATE

ISSUE DATES

WALL @ 18" O/C

CD | CONSTRUCTION DOCUMENTS | 09/08/2023

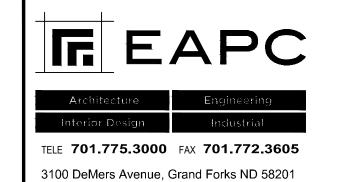
MARK DESCRIPTION

20232950 PROJECT NO: DRAWN BY: JWD CHECKED BY:

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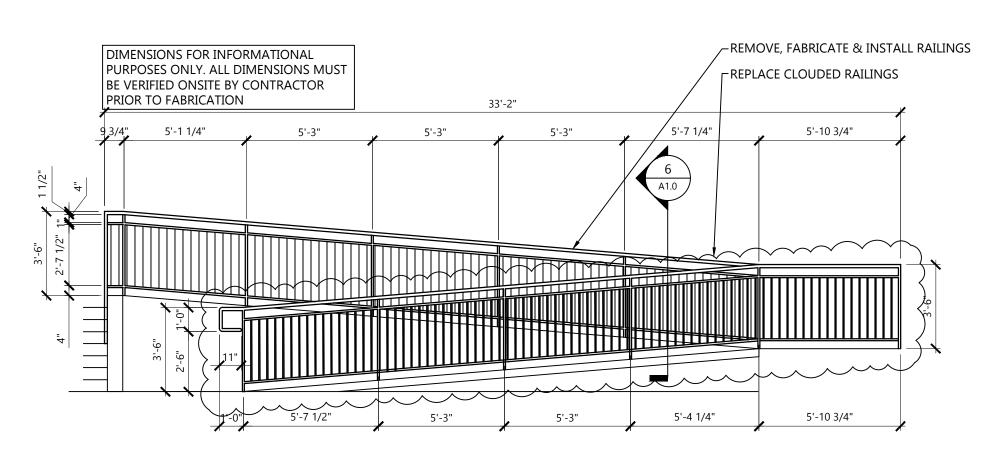
DRAWING TITLE **DETAILS - LOUNGE** DECK



8'-0" –1-1/2" OD HANDRAIL HANDRAIL INSIDE GUARD (TYP) 1" SQ TUBE VERTICALS — 1/2" BAR VERTICALS DIMENSIONS FOR INFORMATIONAL PURPOSES ONLY. ALL DIMENSIONS MUST BE VERIFIED ONSITE BY CONTRACTOR PRIOR TO FABRICATION EXTERIOR STAIR

DIMENSIONS FOR INFORMATIONAL PURPOSES ONLY. ALL DIMENSIONS MUST BE VERIFIED ONSITE BY CONTRACTOR PRIOR TO FABRICATION _REMOVE, FABRICATE & INSTALL RAILINGS 33'-2" 5'-10 3/4" 5'-7 1/2" 5'-10 3/4" 5'-4 1/4" 5'-3"

EAST (NORTH SET)



EAST (SOUTH SET)

CLIENT TURTLE MOUNTAIN COMMUNITY COLLEGE

PROJECT DESCRIPTION

STAIR AND CONCRETE REPLACEMENT

BELCOURT NORTH DAKOTA STATE

ISSUE DATES

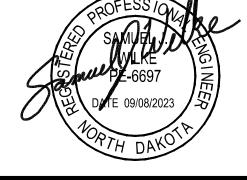
CD CONSTRUCTION DOCUMENTS 09/08/2023 MARK DESCRIPTION

20232950 PROJECT NO: WLM DRAWN BY: JWD CHECKED BY:

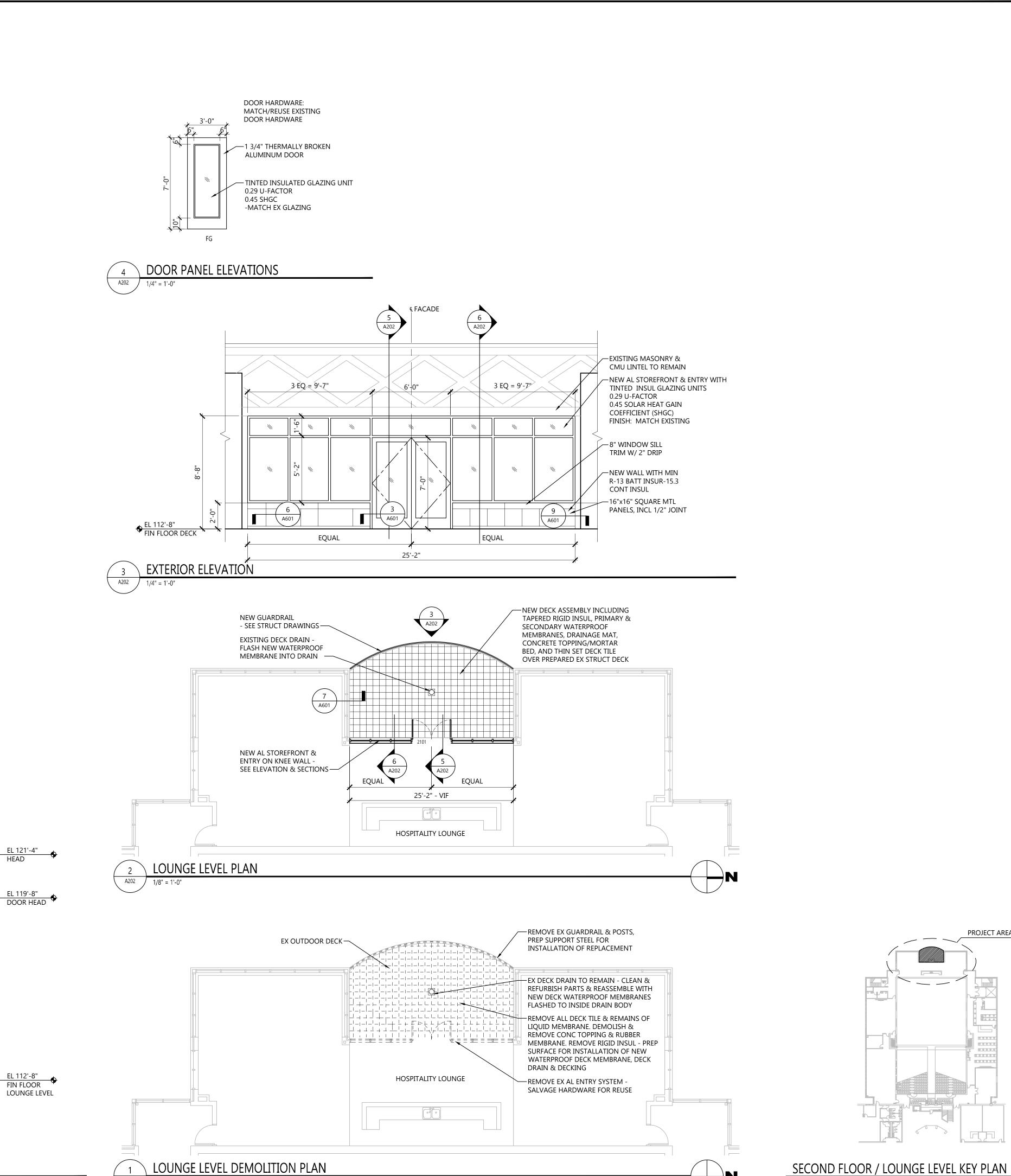
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DRAWING TITLE DETAILS - LOUNGE DECK



∕—BACKER ROD & SEALANT

— AL STIFFENER FOR CUT PANELS

— WINDOW SILL TRIM

—METAL PANEL

EL 114'-8"
WINDOW SILL

—1 1/2" RIGID INSUL

EL 112'-8"
FIN FLOOR

LOUNGE LEVEL

←EX DECK & FLOOR CONST

WALL SECTION @ DOOR

—1/2" OSB SHTG

3 5/8" MTL STUD W/ BATT

WALL SECTION @ KNEE WALL

5/8" GWB, PAINT

WILLIAMS PROMAR)-

(BOD: SHERWIN

(BOD: TARKETT,

JOHNSONITE)



TELE **701.775.3000** FAX **701.772.3605** 3100 DeMers Avenue, Grand Forks ND 58201

CLIENT

TURTLE MOUNTAIN **COMMUNITY COLLEGE**

PROJECT DESCRIPTION

STAIR AND CONCRETE REPLACEMENT

BELCOURT CITY NORTH DAKOTA STATE

ISSUE DATES

CD CONSTRUCTION DOCUMENTS 09/08/2023 MARK DESCRIPTION

20232950 PROJECT NO: RGH DRAWN BY: GL CHECKED BY:

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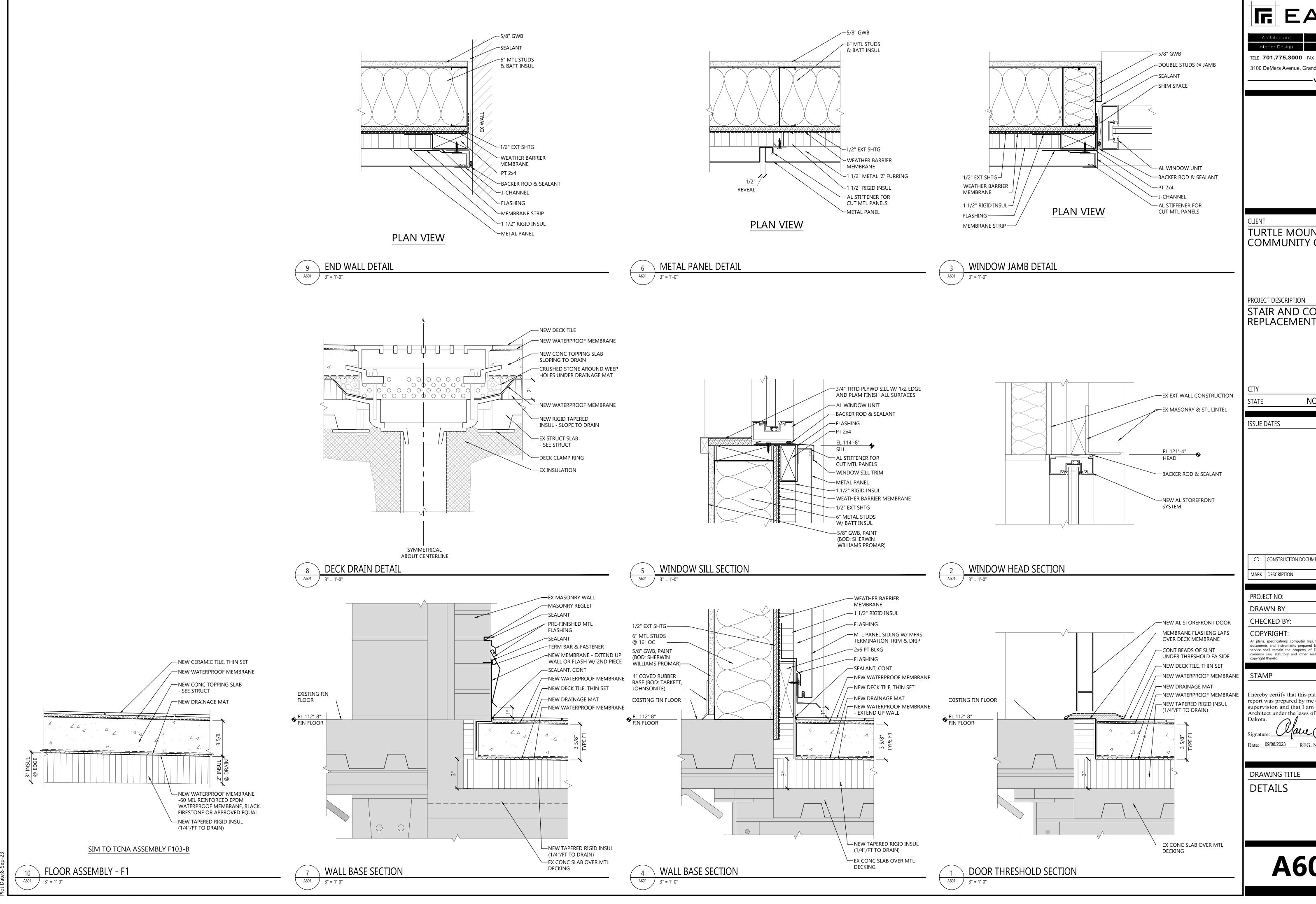
PROJECT AREA

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Architect under the laws of the State of North

DRAWING TITLE

LOUNGE LEVEL PLANS & DETAILS

A202



F EAPC

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TURTLE MOUNTAIN **COMMUNITY COLLEGE**

PROJECT DESCRIPTION STAIR AND CONCRETE

BELCOURT

NORTH DAKOTA

CD | CONSTRUCTION DOCUMENTS | 09/08/2023

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I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Architect under the laws of the State of North

DRAWING TITLE