WATFORD CITY PARK DISTRICT

PARK SHOP BUILDING - RE-BID

13 POPLAR STREET

WATFORD CITY, ND 58854

GENERAL

G001	COVER SHEET
G101	LIFE SAFETY PLAN

CIVIL

C0.0	COVER SHEET
C1.0	NOTES
C1.1	LEGEND & ABBREVIATIONS
C2.0	EXISTING CONDITIONS & REMOVALS
C3.0	SITE UTILITY PLAN
C4.0	SITE LAYOUT PLAN
C5.0	GRADING PLAN
C5.1	CUT & FILL PLAN
C6.0	DETAILS
C6.1	DETAILS

STRUCTURAL

S001	STRUCTURAL GENERAL NOTES
S002	STRUCTURAL LOADS & MATERIAL NOTE TABLES
S003	SPECIAL INSPECTION TABLES, STRUCTURAL LEGENDS, SCHEDULES, AND ABBREVIATIONS
S201	FOUNDATION/SLAB PLAN
S203	ROOF FRAMING PLAN
S301	SHEARWALL PLANS
S601	FOUNDATION DETAILS
S701	FRAMING DETAILS

ARCHITECTURAL

A001	GENERAL ARCHITECTURAL INFORMATION
A021	WALL, FLOOR AND ROOF TYPES
A201	FLOOR PLAN
A221	ROOF PLAN & DETAILS
A301	REFLECTED CEILING PLAN
A401	BUILDING ELEVATIONS
A421	BUILDING SECTIONS
A441	WALL SECTIONS
A701	INTERIOR ELEVATIONS, MILLWORK SECTIONS & DETAILS, ROOM FINISH SCHEDULE
A801	DOOR SCHEDULE, DOOR AND WINDOW ELEVATIONS

FIRE PROTECTION, PLUMBING & MECHANICAL

PM01	MECHANICAL SYMBOLS & LEGEND SHEET

PLUMBING

P200	UNDERGROUND PLUMBING PLAN
P201	FIRST FLOOR PLUMBING PLAN
P501	RISERS
P601	PLUMBING DETAILS
P801	PLUMBING SCHEDULES

MECHANICAL

M201	FIRST FLOOR HYDRONICS PLAN
M301	FIRST FLOOR VENTILATION PLAN
M601	MECHANICAL DETAILS
M801	MECHANICAL SCHEDULES

ELECTRICAL

E001	ELECTRICAL SYMBOLS & ABBREVIATIONS LEGEND
E050	SPECIFICATIONS
E100	ELECTRICAL SITE PLAN
E201	FIRST FLOOR POWER PLAN
E301	FIRST FLOOR LIGHTING PLAN
E401	FIRST FLOOR SYSTEMS PLAN
E801	ONE-LINE DIAGRAM
E802	MOTOR & EQUIPMENT SCHEDULE & RISER
E803	LIGHTING SCHEDULES & DETAILS
E901	SCHEDULES

CONTACTS

EAPC ARCHITECTS ENGINEERS

KLJ

ARCHITECT
BRETT DONAT
brett.donat@eapc.net
(701) 224-7306
313 Main St, Suite 200
Williston, ND 58801

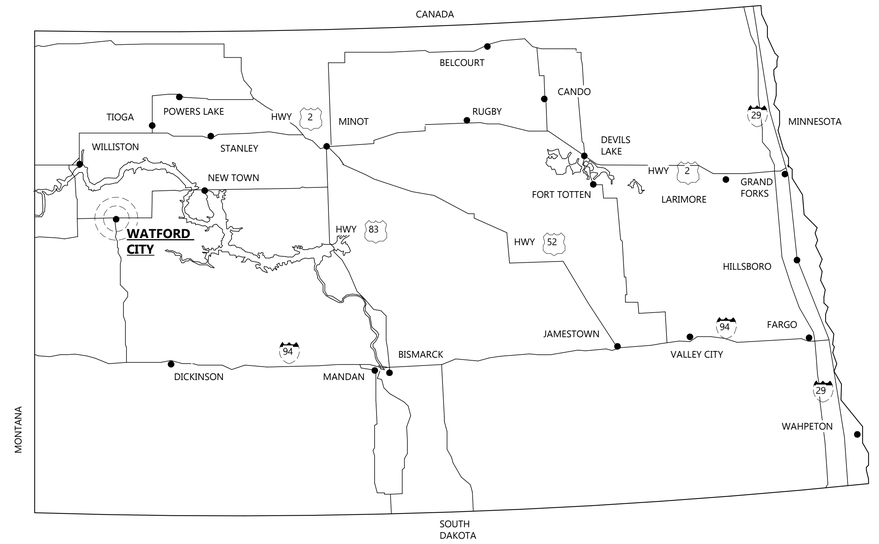
MECHANICAL ENGINEER
ALEXIS BARTON
alexis.barton@eapc.net
(701) 461-7443
112 Roberts St N
Fargo, ND 58102

STRUCTURAL ENGINEER
JEREMY DAHMEN
jeremy.dahmen@eapc.net
(612) 552-4600
539 Bielenberg Dr
St. Paul, MN 55125

ELECTRICAL ENGINEER
BRIAN WENTLAND
brian.wentland@eapc.net
(701) 461-7443
112 Roberts St N
Fargo, ND 58102

CIVIL ENGINEER
BRAD KROGSTAD
brad.krogstad@kljeng.com
(701) 355-8437
400 E. Broadway Ave.
Bismarck, ND 58501

STATE MAP



SITE LOCATION

EAPC

Architecture	Engineering
Interior Design	Industrial

TELEPHONE 701.609.5290
313 Main Street, Suite 200, Williston ND 58801
www.eapc.net

CONSULTANTS

CLIENT
WATFORD CITY PARK DISTRICT

PROJECT DESCRIPTION
PARK SHOP BUILDING

CITY WATFORD CITY
STATE ND

ISSUE DATES

MARK	DESCRIPTION	DATE
CD	RE-BID	05/20/2026

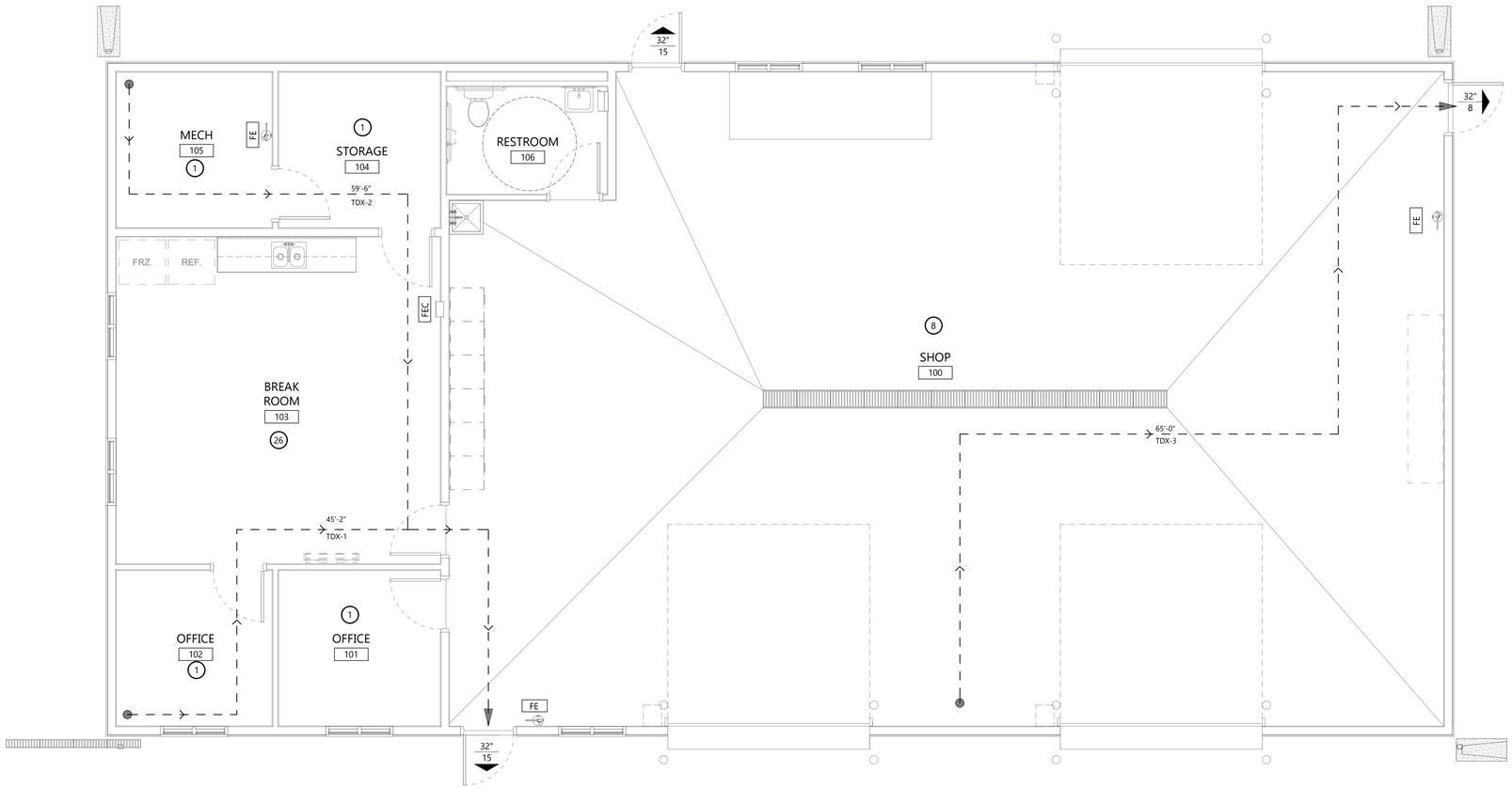
PROJECT NO: 20262250
DRAWN BY: MGB/EMC
CHECKED BY: BD

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:
Date: 05/20/2026 REG. NO. : 1718

DRAWING TITLE
COVER SHEET

G001

Revit Version: 2025
Plot Date: 5/21/2026 1:06:18 PM



1 G101 LIFE SAFETY PLAN

1/4" = 1'-0"

N

LIFE SAFETY LEGEND

- ## / ## — EXIT/EXIT DISCHARGE; CLEAR WIDTH IN INCHES; OCCUPANT CAPACITY
- COMMON PATH TRAVEL DISTANCE (CPTD); EXIT ACCESS (EXA); TRAVEL DISTANCE TO EXIT (TDX)
- (X) — OCCUPANT LOAD IN A GIVEN ROOM OR AREA
- FEC — FIRE EXTINGUISHER CABINET
- FE — FIRE EXTINGUISHER

CODE ANALYSIS

PROJECT DESCRIPTION
OFFICE/SHOP BUILDING WITH A TOTAL OF 3,200 SF

REFERENCE CODES

BUILDING CODE:	2024 (IBC)	ENERGY CODE:	2024 (IECC)
FIRE CODE:	2024 (IFC)	PLUMBING CODE:	2024 (UPC)
MECHANICAL CODE:	2024 (IMC)	ELECTRICAL CODE:	2023 (NEC) W/ 2020 WIRING STANDARDS OF NORTH DAKOTA.

ACCESSIBILITY CODE: (ICC) A 117.1 2019 STANDARDS AND COMMENTARY
ACCESSIBLE BUILDING AND FACILITIES
2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

OCCUPANCY
MODERATE-HAZARD STORAGE (S-1) — SECT. 311.2

EGRESS
OCCUPANT LOAD: 38

MEANS OF EGRESS SIZING — IBC 1005.3.2
0.2 INCH PER OCCUPANT: 38 X 0.2 = 7.6
EXITS REQUIRED: 2 — IBC 1006.3.3
EXITS PROVIDED: 3

DOOR SIZING REQUIRED — IBC 1010.1.1
32" MINIMUM CLEAR WIDTH

TRAVEL DISTANCES - SEE PLAN FOR LOCATIONS/PATHS
COMMON PATH: MAX. = 100'-0" — TABLE 1006.2.1
ACTUAL = 65'-0"
EXIT ACCESS: MAX. = 200'-0" — TABLE 1017.2
ACTUAL = 65'-0"

CONSTRUCTION TYPE
TYPE VB - NO FIRE-RESISTANCE FOR BUILDING ELEMENTS REQUIRED — TABLE 601

BUILDING AREA - SECTION 506
ALLOWABLE BUILDING HEIGHT ABOVE GRADE PLANE: 40'-0" — TABLE 504.3
ACTUAL: 18'-4 1/2"
ALLOWABLE NUMBER OF STORIES ABOVE GRADE PLANE: 1 — TABLE 504.4
ACTUAL: 1
ALLOWABLE AREA FACTOR IN SF: S1 - 9,000 — TABLE 506.2
ACTUAL: 3,200

FIRE PROTECTION SYSTEMS — SECT. 903
AUTOMATIC SPRINKLER SYSTEM: NOT REQUIRED
STANDPIPE SYSTEM: NOT REQUIRED
PORTABLE FIRE EXTINGUISHER: REQUIRED - 75' MAX SPACING

PLUMBING FIXTURE COUNT
FIRST FLOOR TOTAL NUMBER OF OCCUPANTS: 38 (MEN & WOMEN)
OCCUPANCY TYPE: S-1

FIXTURE TYPE		REQ'D	PROVIDED
WATER CLOSETS	1/100	1	1
LAVATORIES	1/100	1	1
DRINKING FOUNTAIN	1/1,000	1	1 REQ'D WATER DISPENSER IN PLACE OF DRINKING FOUNTAIN
SERVICE SINK		1	1

EAPC
Architecture | Engineering
Interior Design | Industrial
TELEPHONE 701.609.5290
313 Main Street, Suite 200, Williston ND 58801
www.eapc.net

CONSULTANTS

CLIENT
WATFORD CITY PARK DISTRICT

PROJECT DESCRIPTION
PARK SHOP BUILDING

CITY WATFORD CITY
STATE ND

ISSUE DATES

MARK	DESCRIPTION	DATE
CD	RE-BID	05/20/2026

PROJECT NO: 20262250
DRAWN BY: MGB
CHECKED BY: BD

STAMP

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Architect under the laws of the State of North Dakota.
Signature:
Date: 05/20/2026 REG. NO. : 1718

DRAWING TITLE
LIFE SAFETY PLAN

G101

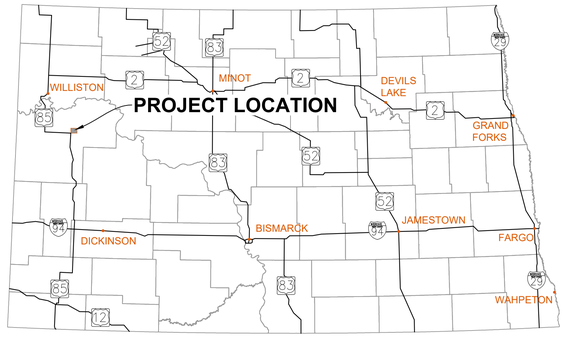
Revit Version: 2025
Plot Date: 5/21/2026 1:06:19 PM

PARK SHOP BUILDING - RE-BID

WATFORD CITY PARK DISTRICT

WATFORD CITY, NORTH DAKOTA

MARCH, 2026



STATE OF NORTH DAKOTA

SITE INFORMATION

ADDRESS: 13 POPLAR ST, WATFORD CITY, ND 58854

PORTION OF LOT 4, BLOCK 1, STEVENS ADDITION TO WATFORD CITY

ZONING: COMMUNITY FACILITIES (CF)

BUILDING HEIGHT: STRUCTURES AND ACCESSORY BUILDINGS MUST CONFORM TO FIRE AND SAFETY REGULATIONS RELATED TO HEIGHT. COORDINATION WITH CITY FIRE, BUILDING AND PLANNING STAFF IS REQUIRED. HEIGHT RESTRICTIONS ARE STILL REGULATED BY OTHER CONSTRAINTS INCLUDING, BUT NOT LIMITED TO, BUILDING CODES, MATERIALS USED, AND AIRPORT FLIGHT PATHS.

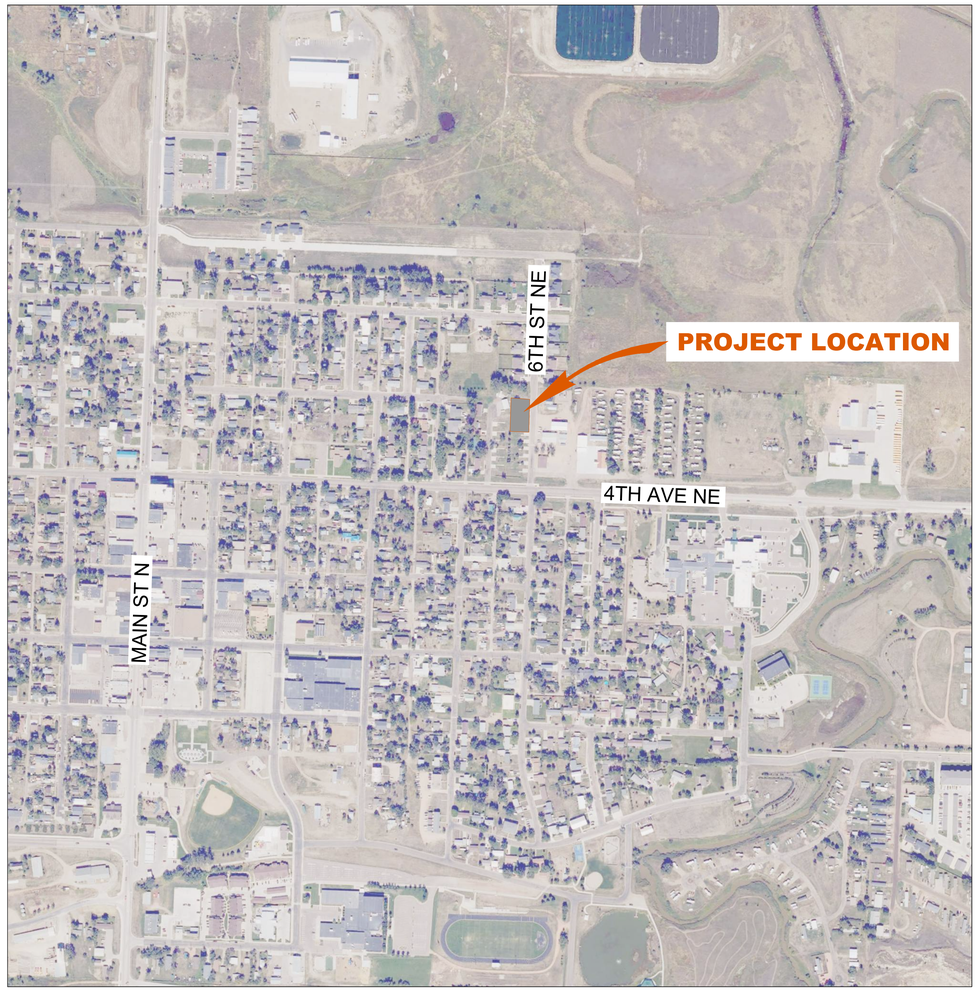
FRONT YARD SETBACK: THERE SHALL BE NO FRONT YARD REQUIREMENTS OTHER THAN TO ACCOMMODATE FIRE AND SAFETY REGULATIONS, LOADING, AND PARKING REQUIREMENTS.

SIDE YARD SETBACK: NO SIDE YARD SHALL BE REQUIRED, EXCEPT WHERE SUCH SIDE YARD IS ADJACENT TO A RESIDENTIAL DISTRICT ZONE, IN WHICH CASE THERE SHALL BE REQUIRED FIVE (5) FEET OF SIDE YARD ON THE SIDE OF THE LOT WHICH ABUTS THE RESIDENTIAL DISTRICT ZONE, OR WHEN A SIDE YARD IS REQUIRED PER FIRE REGULATIONS.

REAR YARD SETBACK: THERE ARE NO REAR YARD REQUIREMENTS OTHER THAN FIRE AND SAFETY REGULATIONS, LOADING, AND PARKING REQUIREMENTS; EXCEPT WHERE SUCH REAR YARD IS ADJACENT TO A DWELLING DISTRICT ZONE, THERE SHALL BE A MINIMUM REQUIRED FIFTEEN (15) FEET OF REAR YARD SETBACK.

N

WATFORD CITY, NORTH DAKOTA



VICINITY MAP

NO SCALE

INDEX OF SHEETS

CERTIFICATION

I HEREBY CERTIFY THAT THE ATTACHED PLANS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF NORTH DAKOTA.

Brent Noonan DATE: 5/20/2026

BRENT NOONAN, PE-29358

No.	REVISED SHEETS	DESCRIPTION	DATE
1	C0.0, C3.0, C4.0, C5.0, C5.1	REVISION 1 - RE-BID	5/20/2026

ONE CALL BEFORE DIGGING 1-800-795-0555

BASIS OF SURVEY

ALL CONTOURS, ELEVATIONS, AND COORDINATES FOR THE PROJECT ARE BASED ON NAD83 STATE PLANE COORDINATE SYSTEM (MCKENZIE COUNTY GROUND SCALE FACTOR), INTERNATIONAL FEET, NORTH DAKOTA NORTH ZONE 3301 AND NAVD-88 VERTICAL DATUM.

OWNER

WATFORD CITY PARKS AND RECREATION
PO BOX 13, 2209 WOLVES DEN PARKWAY
WATFORD CITY, ND 58854
PH: 701.842.3665
www.watfordcityparks.com

CIVIL ENGINEER

KLJ ENGINEERING, LLC
400 E BROADWAY AVE
SUITE 600
BISMARCK, ND 58501
PH: 701.355.8400
www.kljeng.com

ARCHITECT

EAPC ARCHITECTS ENGINEERS
313 MAIN STREET, SUITE 200
WILLISTON, ND 58801
PH: 701.609.5290
www.eapc.net

K:\Projects\City\ND\WatfordCity\2604-10013-WatfordParksShop\CAD\Design\Plans\2604-10013-WatfordParksShop-C0-Cover.dwg (C0.0)

EAPC

TELEPHONE 701.609.5290
313 Main Street, Suite 200, Williston ND 58801
www.eapc.net

CONSULTANTS

KLJ

KLJ PROJECT # 2604-10013

CLIENT
WATFORD CITY PARK DISTRICT

PROJECT DESCRIPTION
PARK SHOP BUILDING - RE-BID

CITY WATFORD CITY
STATE ND

ISSUE DATES

CD	RE-BID	05/20/2026
CD	CONSTRUCTION DOCUMENTS	03/25/2026
MARK	DESCRIPTION	DATE

PROJECT NO: 20262250
DRAWN BY: JP
CHECKED BY: ADW

STAMP

REGISTERED PROFESSIONAL ENGINEER
BRENT JAMES NOONAN
PE-29358
DATE 5/20/2026
NORTH DAKOTA

DRAWING TITLE
COVER SHEET

C0.0

GENERAL NOTES:

1. THESE NOTES APPLY TO THE ENTIRE PROJECT EXCEPT AS INDICATED OTHERWISE. CONTRACTOR SHOULD NOTE THAT ADDITIONAL CONSTRUCTION NOTES ARE INCLUDED ON INDIVIDUAL DRAWINGS.
2. THESE NOTES ARE FOR GENERAL REFERENCE IN CONJUNCTION WITH AND AS A SUPPLEMENT TO THE WRITTEN SPECIFICATIONS, DETAILS, ADDENDA AND CHANGE ORDERS ASSOCIATED WITH THE CONTRACT DOCUMENTS.
3. ANY ERRORS OR OMISSIONS DISCOVERED BY THE CONTRACTOR IN THE PLANS OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER WHEN DISCOVERED. THE CONTRACTOR SHALL ALLOW TIME FOR CLARIFICATION.
4. REQUESTS FOR SUBSTITUTIONS OR DEVIATIONS FROM THE PLANS OR SPECIFICATIONS BY THE CONTRACTOR OR OWNER SHALL BE APPROVED IN WRITING BY THE ENGINEER AND/OR ARCHITECT PRIOR TO IMPLEMENTATION.
5. UNLESS SPECIFICALLY STATED OTHERWISE IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL ARRANGE, EMPLOY AND PAY FOR THE SERVICES OF AN INDEPENDENT TESTING LABORATORY TO PERFORM ALL INSPECTIONS, TESTS, OR APPROVALS REQUIRED BY THE CONTRACT DOCUMENTS AND FOR COMPLETION OF ALL PHASES OF THE WORK.
6. THE CONTRACTOR SHALL PROTECT ALL SURVEY MONUMENTS. ANY MONUMENTS DISTURBED OR DESTROYED SHALL BE REPLACED BY A REGISTERED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
7. CONTRACTOR SHALL PROVIDE A ONE (1) WEEK NOTICE TO ENGINEER, OWNER, AND PROPERTY OWNERS PRIOR TO BEGINNING ANY CONSTRUCTION.
8. THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THEIR REPRESENTATIVES. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. UNDERGROUND LOCATES SHALL BE MADE BY USING THE "ONE CALL" NUMBER 1-800-795-0555 OR 811.
9. THIS PLAN SET INCLUDES A LEGEND OF GENERAL ABBREVIATIONS, SYMBOLS AND MATERIALS. SOME SYMBOLS, MATERIALS, AND ABBREVIATIONS MAY NOT BE UTILIZED ON THIS SPECIFIC PROJECT.
10. ALL WORK IN THE RIGHT OF WAY SHALL BE DONE BY A CITY LICENSED AND BONDED CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS PRIOR TO PROCEEDING WITH ANY WORK.
11. ITEMS NOT INCLUDED IN THE BID FORM (IF PROVIDED) AS A PAY ITEM BUT INDICATED ON THE PLANS SHALL BE PROVIDED BY THE CONTRACTOR AND SHALL BE CONSIDERED INCIDENTAL ITEMS.
12. PLANS AND SPECIFICATIONS MAY INCLUDE REFERENCE TO CONSTRUCTION MANAGER. IN THE EVENT THAT A CONSTRUCTION MANAGER IS NOT PART OF THE PROJECT TEAM, ALL INSTANCES OF “CONSTRUCTION MANAGER” IN THE CONTRACT DOCUMENTS SHALL BE REPLACED WITH “ARCHITECT” OR “ENGINEER” AS APPROPRIATE.
13. CONTRACTOR SHALL MAINTAIN A SET OF RED-LINE DRAWINGS TO DOCUMENT ANY DEVIATION FROM THE APPROVED UTILITY AND SITE ELECTRICAL PLANS. CONTRACTOR SHALL NOTIFY IF ANY DEVIATIONS ARE NECESSARY PRIOR TO INSTALLATION IF ANY DEVIATIONS ARE NECESSARY AND ALLOW TIME FOR ENGINEER TO PROVIDE COMMENTS. AFTER INSTALLATION, CONTRACTOR SHALL PROVIDE AS-BUILT SURVEY OF INSTALLED UNDERGROUND UTILITIES AND SITE ELECTRICAL IMPROVEMENTS AND RED-LINE DRAWINGS TO ENGINEER FOR PREPARATION OF RECORD DRAWINGS
14. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF THE EXISTING PAVEMENT AND MONITORING HOW THE EXISTING ROADWAYS RESPOND TO CONSTRUCTION TRAFFIC. THE WORK SHOULD BE PHASED IN SUCH A WAY THAT PREVENTS DAMAGE TO THE PAVEMENT.

REMOVALS & DEMOLITION:

15. EXISTING UTILITIES (SANITARY SERVICE, WATER SERVICE, GAS, ELECTRICAL, ETC.) FROM THE PREVIOUS MOBILE HOME PARK ARE STILL PRESENT ONSITE. SEVERAL OF THE ABOVE GROUND APPURTENANCES HAVE BEEN REMOVED BY THE OWNER, BUT UNDERGROUND SERVICES WERE ABANDONED OR REMAIN ACTIVE. CONTRACTOR SHALL USE CAUTION ENCOUNTERING EXISTING UTILITIES DURING EXCAVATION. IF ENCOUNTERED, UTILITIES SHALL BE REMOVED FROM BUILDING EXCAVATION AND CAPPED OR RELOCATED. CONTRACTOR SHALL NOTIFY THE ENGINEER IF UTILITIES NOT SHOWN ON PLANS ARE ENCOUNTERED AND DOCUMENT ENCOUNTERED UTILITIES AND LOCATION OF CAPPED UTILITIES ON THEIR AS-BUILT DRAWINGS .
16. CONTRACTOR SHALL FULL DEPTH SAW CUT ALL CURB AND GUTTER, SIDEWALK, AND PAVEMENT PRIOR TO REMOVAL.
17. ANY EXISTING STRUCTURES DISTURBED BY CONSTRUCTION AND NOT CALLED FOR REMOVAL ARE TO BE RESTORED TO THEIR ORIGINAL LOCATION AND CONDITION. THIS INCLUDES ALL STRUCTURES SUCH AS CURB AND GUTTER, ADJACENT PAVEMENT, SIDEWALKS, ETC.
18. MISCELLANEOUS ITEMS INCLUDING, BUT NOT LIMITED TO, MAILBOXES, STREET LIGHTS, TRAFFIC LIGHTS, SIGNS, FENCES, POLES, ETC. SHALL BE PROTECTED OR REMOVED AND REINSTALLED BY THE CONTRACTOR WITH THE OWNERS AND PROPERTY OWNERS PERMISSION, AND THIS WORK SHALL BE INCIDENTAL TO THE CONTRACT.
19. EXCESS EXCAVATED MATERIAL INCLUDING PIPE, STUMPS, ROOTS, SOIL MATERIALS OR ANY OTHER ITEMS THE OWNER DOES NOT WISH TO SALVAGE SHALL BECOME THE CONTRACTOR'S PROPERTY AND SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY, INCIDENTAL TO THE CONTRACT. ASPHALT AND ALL CONCRETE SHALL BE LEGALLY DISPOSED OF OFFSITE, INCIDENTAL TO THE CONTRACT.
20. THE CONTRACTOR SHALL COORDINATE WITH THE CONSTRUCTION MANAGER/ENGINEER/ARCHITECT AND THE APPROPRIATE UTILITY COMPANIES TO OBTAIN APPROVAL FOR AND DETERMINE THE EXTENTS OF REMOVAL, RELOCATION OR ABANDONMENT OF EXISTING ELECTRICAL, GAS AND COMMUNICATIONS LINES.

GRADING:

21. TOPSOIL SHALL BE FULLY REMOVED FROM AREAS TO BE EXCAVATED OR FILLED. THE CONTRACTOR IS RESPONSIBLE FOR RECOMMENDING TEMPORARY TOPSOIL STOCKPILE LOCATIONS FOR OWNER APPROVAL. EXCESS TOPSOIL SHALL BE SPREAD ONSITE OR SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY, INCIDENTAL TO THE CONTRACT, AS DETERMINED BY THE OWNER.
22. SILT FENCING OR OTHER APPROPRIATE EROSION CONTROL MEASURES SHALL BE INSTALLED ON DOWNSTREAM SIDES OF STOCKPILES AND DISTURBED AREAS TO PROTECT RECEIVING WATERS FROM SEDIMENTATION. TOPSOIL STOCKPILES AND OTHER DISTURBED AREAS THAT WILL REMAIN UNSTABILIZED FOR PERIODS IN EXCESS OF 14 DAYS SHOULD BE STABILIZED WITH TEMPORARY VEGETATION.
23. EXISTING CONTOURS ARE SHOWN AT EXISTING GRADE.
24. PROPOSED CONTOURS ARE SHOWN AT FINISH GRADE.
25. CONTRACTOR SHALL REMOVE ALL DEMOLISHED OR CLEARED ITEMS FROM THE SITE; INCLUDING, BUT NOT LIMITED TO, VEGETATION, TREES, ROOT MASSES, ROCKS, DEBRIS, RUBBLE, AND GARBAGE. EXCESS FILL SOIL, TOPSOIL, AND UNSUITABLE NATURAL SOIL SHALL ALSO BE REMOVED FROM THE SITE. MATERIAL THAT DOES NOT CONTAIN DELETERIOUS MATERIAL MAY BE REUSED AS A BACKFILL IF APPROVED BY THE GEOTECHNICAL ENGINEER.
26. IN THE EVENT THAT CONTAMINATED MATERIALS ARE DISCOVERED, CONTRACTOR SHALL HIRE A PROFESSIONAL TO CONDUCT AN ENVIRONMENTAL INSPECTION DURING CONSTRUCTION TO ENSURE CONTAMINATED MATERIALS ARE HANDLED APPROPRIATELY.
27. SUBGRADE SHALL BE COMPACTED TO THE REQUIREMENTS INDICATED IN THE TABLE INCLUDED IN THESE NOTES.
28. CONTRACTOR SHALL NOT EXCAVATE MATERIAL OVER EXISTING UTILITIES WITHOUT OBTAINING APPROVAL FROM THE UTILITY OWNER PRIOR TO PERFORMING THE WORK.

WATER, SANITARY, & STORM SEWER:

29. CONTRACTOR IS REQUIRED TO OBTAIN ANY EXCAVATION PERMITS REQUIRED FOR EACH SANITARY SEWER, STORM SEWER, AND WATER SERVICE CONNECTION. SEPARATE PERMITS MAY BE REQUIRED FOR EACH UTILITY AND FOR BOTH INSTALLATION AND REMOVAL.
30. PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION, ELEVATION, MATERIAL, AND SIZE OF THE EXISTING UTILITIES AT THE POINTS OF CONNECTION. CONNECTIONS BETWEEN NEW AND EXISTING PIPES SHALL USE PROPER FITTINGS TO SUIT THE ACTUAL CONDITIONS ENCOUNTERED. FITTINGS NECESSARY TO MAKE ALL CONNECTIONS SHALL BE INCIDENTAL.
31. WHERE EXISTING UTILITY WIRES (TELEPHONE, ELECTRIC AND FIBER OPTIC) ARE LOCATED ADJACENT TO OR ABOVE THE PROPOSED SANITARY SEWER, STORM SEWER, AND WATERLINE THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY AND TEMPORARILY SUPPORT THE EXISTING WIRES AND INSTALL MAIN PIPING UNDER EXISTING WIRES. ANY DECISION TO HAVE THE EXISTING UTILITY WIRES MOVED WILL BE AT THE CONTRACTOR'S EXPENSE.
32. FINAL GRADES FOR SANITARY SEWER AND WATER SERVICE LINES SHALL BE ESTABLISHED BY A SURVEYOR.
33. IF NECESSARY, CONTRACTOR SHALL PROVIDE AND MAINTAIN ADEQUATE DEWATERING EQUIPMENT TO REMOVE AND DISPOSE OF ANY SURFACE AND GROUNDWATER ENTERING THE TRENCH. ALL COSTS ASSOCIATED WITH WELLPOINT DEWATERING, AND OTHER PUMP SYSTEMS, SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. PERMITS REQUIRED FOR DEWATERING SHALL BE OBTAINED BY THE CONTRACTOR.
34. ALL PRODUCTS (TREATMENT CHEMICALS AND MATERIALS) THAT MAY COME INTO CONTACT WITH WATER INTENDED FOR USE IN A POTABLE WATER SYSTEM SHALL MEET AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)/NATIONAL SANITATION FOUNDATION (NSF) INTERNATIONAL STANDARDS 60 & 61, AS APPROPRIATE, A PRODUCT WILL BE CONSIDERED AS MEETING THESE STANDARDS IF SO CERTIFIED BY NSF, THE UNDERWRITERS LABORATORIES, OR OTHER ORGANIZATIONS ACCREDITED BY ANSI TO TEST AND CERTIFY SUCH PRODUCTS.
35. IF NECESSARY, WATER MAIN SHUT DOWN SHALL BE COORDINATED WITH THE PUBLIC WORKS DEPARTMENT. THE CONTRACTOR IS RESPONSIBLE FOR PROPERTY NOTIFICATION. CONTRACTOR SHALL NOTIFY ENGINEER AND OWNER AT LEAST 48 HOURS IN ADVANCE OF TEMPORARY DISRUPTION OF WATER SERVICE. ALL AFFECTED WATER USERS SHALL BE NOTIFIED A MINIMUM OF 24 HOURS PRIOR TO SHUTDOWN. NOTIFICATION SHALL BE IN WRITING AND SHALL INDICATE THE ESTIMATED DURATION. IF ACTUAL SHUTDOWN VARIES FROM THE STATED TIME BY MORE THAN ONE HOUR, A SECOND VERBAL NOTIFICATION IS REQUIRED. THE CONTRACTOR SHALL NOT OPERATE ANY CITY OWNED HYDRANTS OR VALVES.
36. IF THE WATER TO A PROPERTY IS TO BE OUT FOR MORE THAN 12 HOURS, THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING A TEMPORARY WATER SERVICE TO THE AFFECTED WATER USERS. THE METHOD OF PROVIDING THE TEMPORARY WATER SERVICE SHALL BE AN OPTION OF THE CONTRACTOR SUBJECT TO THE APPROVAL OF THE ENGINEER.
37. DEPTH OF COVER FOR ALL WATERLINES SHALL BE A MINIMUM OF 7 FEET 6 INCHES, MEASURED FROM THE GROUND SURFACE TO THE TOP OF THE PIPE. MAINS SHALL BE LOWERED, AS REQUIRED, TO AVOID CONFLICTS WITH EXISTING UTILITIES AND TO MAINTAIN SPECIFIED SEPARATIONS.
38. ALL PIPE DIMENSIONS ARE LISTED TO CENTER OF STRUCTURE.
39. SITE UTILITY CONTRACTOR SHALL COORDINATE WITH BUILDING MECHANICAL CONTRACTOR FOR UTILITY CONNECTIONS.
40. WATERLINE PIPE DEFLECTIONS FROM A STRAIGHT LINE OR GRADE ARE TO BE MADE WITH FITTINGS, DEFLECTED PIPE, SHORTER PIPE SECTIONS, OR A COMBINATION OF THESE METHODS TO CONFORM TO THE ALIGNMENT AND PROFILE INDICATED ON THE DRAWINGS AND SPECIFICATIONS. DEFLECTED PIPE SHALL NOT EXCEED THE PIPE MANUFACTURERS RECOMMENDATIONS.
41. TELEVISING OF SEWER LINES IS NOT REQUIRED FOR PIPES SMALLER THAN 8" DIAMETER. TELEVISING, IF REQUIRED, LOW PRESSURE AIR TESTING, AND MANDREL TESTING SHALL BE INCIDENTAL TO THE SANITARY SEWER PIPE.
42. HYDROSTATICALLY TEST ALL WATER PIPES, INCLUDING SERVICES, IN THE PRESENCE OF ENGINEER OR OWNERS DESIGNATED REPRESENTATIVE AT A MINIMUM PRESSURE OF 150 PSI FOR A PERIOD OF NO LESS THAN 2 HOURS AS REQUIRED BY AWWA C600. MAINTAIN PRESSURE WITHIN 5 PSI DURING THE TEST WITH NO LEAKAGE. IF TEST FAILS, CONTRACTOR SHALL REPAIR AND RETEST AT NO ADDITIONAL COST TO THE OWNER.
43. All WATER SERVICE LINES SHALL BE FLUSHED, BUT DO NOT REQUIRE DISINFECTION.
44. ALL UTILITY TRENCHES ARE TO BE BACKFILLED & COMPACTED TO THE PROPOSED SUBGRADE ELEVATION. UTILITY TRENCHES SHALL BE COMPACTED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT. IF NOT SPECIFICALLY STATED IN THE GEOTECHNICAL REPORT, UTILITY TRENCHES SHALL BE COMPACTED TO THE REQUIREMENTS INDICATED IN THE TABLE INCLUDED IN THESE NOTES.

CONCRETE IN PUBLIC RIGHT-OF-WAY:

45. A CONCRETE PERMIT IS REQUIRED AND MUST BE APPROVED BY THE CITY ENGINEER PRIOR TO ANY SIDEWALK, CURB, AND/OR DRIVEWAY CONSTRUCTION.
46. ALL CONCRETE WORK PERFORMED IN CITY RIGHT-OF-WAY SHALL BE CONDUCTED BY A CITY-BONDED CONTRACTOR.

TRAFFIC CONTROL AND SIGNAGE:

47. THE CONTRACTOR SHALL MAINTAIN INGRESS/EGRESS ACCESS TO THIS PROPERTY AND ADJACENT PROPERTIES AT ALL TIMES. THE CONTRACTOR SHALL COORDINATE DETOURS AND ANY TEMPORARY CLOSURES WITH THE CITY OF WATFORD CITY ENGINEERING DEPARTMENT. THE CONTRACTOR SHALL KEEP THE DURATION OF ALL CLOSURES AND DETOURS TO A MINIMUM.
48. THE CONTRACTOR SHALL MAINTAIN TEMPORARY DETOUR ROADS UNTIL DETOUR IS NO LONGER NECESSARY. MAINTENANCE COSTS SHALL BE INCIDENTAL TO THE CONTRACT.
49. THE CONTRACTOR SHALL FOLLOW THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) STANDARDS AND GUIDES FOR TRAFFIC CONTROL FOR STREET AND HIGHWAY CONSTRUCTION.
50. THE CONTRACTOR SHALL FOLLOW NDDOT STANDARD DRAWINGS WHEN SETTING UP THE TRAFFIC CONTROL DEVICES.

COMPACTION RECOMMENDATIONS		
LOCATION	% COMPACTION	% MOISTURE FROM OPTIMUM
FOUNDATION AND FLOOR SLAB	98% MIN	0% TO +2% FOR CLAY SOILS BELOW FOUNDATIONS & FLOOR SLABS
PAVEMENT AREAS & UTILITY TRENCHES	95% MIN	0% TO +3% FOR CLAY SOILS BELOW EXTERIOR SLABS & PAVEMENT
GREEN AREAS	95% MIN	0% TO +3% FOR CLAY SOILS IN GREEN AREAS
		-5% TO +5% FOR NON-FROST SUSCEPTIBLE SOILS

NOTES:
1. COMPACTION VALUES ARE BASED ON STANDARD PROCTOR (ASTM D698)
2. THE VALUES IN THIS TABLE ARE MINIMUM RECOMMENDATIONS. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING WITH A GEOTECHNICAL ENGINEER.

EAPC
TELEPHONE 701.609.5290
313 Main Street, Suite 200, Williston ND 58801
www.eapc.net
CONSULTANTS
KLJ
KLJ PROJECT # 2604-10013

CLIENT
WATFORD CITY PARK DISTRICT

PROJECT DESCRIPTION
PARK SHOP BUILDING - RE-BID

CITY WATFORD CITY
STATE ND

ISSUE DATES

MARK	DESCRIPTION	DATE
CD	RE-BID	05/20/2026
CD	CONSTRUCTION DOCUMENTS	03/25/2026

PROJECT NO: 20262250
DRAWN BY: BJN
CHECKED BY: ADW

STAMP

REGISTERED PROFESSIONAL ENGINEER
BRENT JAMES NOONAN
PE-29358
DATE 5/20/2026
NORTH DAKOTA

DRAWING TITLE
NOTES

C1.0

EROSION CONTROL AND POLLUTION PREVENTION:

51. CONTRACTOR IS RESPONSIBLE FOR MINIMIZING TRACKING OF SOIL AND DEBRIS ONTO ADJACENT PROPERTIES AND PUBLIC ROADWAYS. TRACKING MUST BE REMOVED BY THE END OF EACH DAY.

52. THE CONTRACTOR SHALL BE REQUIRED TO CLEAN STREETS AND SIDEWALKS WITHIN AND ADJACENT TO THE PROJECT SITE IMPACTED BY CONSTRUCTION THROUGHOUT THE DURATION OF THE PROJECT. UPON PROJECT COMPLETION, CONTRACTOR SHALL PERFORM A FINAL CLEANING AND SHALL REPAIR ANY DAMAGES TO ONSITE AND ADJACENT IMPROVEMENTS CAUSED BY CONSTRUCTION TO PRECONSTRUCTION CONDITIONS.

53. IF POURING CONCRETE, THE CONTRACTOR SHALL INSTALL A CENTRAL CONCRETE WASHOUT LOCATION AND PROVIDE A SIGN TO IDENTIFY THE CONCRETE WASHOUT AREA. THE CONTRACTOR SHALL CONSTRUCT A PIT TO PREVENT WASHOUT WATER FROM FLOWING TO THE STORM WATER COLLECTION SYSTEM. CONTRACTOR TO REMOVE WASHOUT AND PIT PRIOR TO COMPLETION OF PROJECT.

54. CONTRACTOR SHALL NOTIFY CITY ENGINEERING DEPARTMENT UPON INSTALLATION OF EROSION CONTROL MEASURES FOR REVIEW BY CITY STAFF.

55. ALL DISTURBED AREAS SHALL BE SEEDED WITH A SEED MIX AS INDICATED ON THE PLANS OR, IF NOT SPECIFIED, WITH A SEED TYPE TO MATCH EXISTING GRASS SPECIES.

56. CONTRACTOR SHALL RESTORE ANY STAGING AREAS VEGETATION.

57. CONTRACTOR SHALL REMOVE ALL EROSION CONTROL DEVICES WHEN 70% ESTABLISHMENT OF SEEDED TURF GRASS IS ACHIEVED.

58. IF REQUIRED, THE CONTRACTOR MUST APPLY TO THE NORTH DAKOTA DEPARTMENT OF ENVIRONMENTAL QUALITY FOR COVERAGE UNDER THE NDPDES GENERAL PERMIT, PER THE INSTRUCTIONS BELOW, AND COMPLETE A SWPPP.

    TO OBTAIN AN NDPDES GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY, COMPLETE AN APPLICATION (NOTICE OF INTENT) TO OBTAIN COVERAGE UNDER NDPDES GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY (SFN 19145) AND SUBMIT IT TO THE NDDEQ. THE APPLICATION (NOTICE OF INTENT) TO OBTAIN COVERAGE UNDER NDPDES GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY IS AVAILABLE ON THE NDDEQ'S WEBSITE AT:
    HTTPS://DEQ.ND.GOV/WQ/2_NDPDES_PERMITS/7_STORMWATER/STW.ASPX.

    REVIEW THE MEMORANDUM OF AGREEMENT (MOA) DEVELOPED BY THE NDDEQ AND THE DEPARTMENT OUTLINING PROCEDURES FOR NDPDES GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY AS THEY RELATE TO DEPARTMENT PROJECTS. DOWNLOAD A
    COPY OF THE MOA FROM THE NDDEQ'S WEBSITE.

    FULFILL ALL REQUIREMENTS AS REQUIRED BY THE NDDEQ. SUBMIT TO THE ENGINEER A COPY OF THE
    COMPLETED APPLICATION PACKAGE AND, ONCE OBTAINED, THE NOTICE OF PERMIT COVERAGE.

    SUBMIT A COMPLETED NOTICE OF TRANSFER/MODIFICATION OF COVERAGE UNDER (NDPDES) GENERAL PERMIT FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY (SFN 54242) TO THE ENGINEER. SUBMIT THIS FORM WHEN RETURNING THE SIGNED FINAL PAYMENT STATEMENT.

    FOR ADDITIONAL INFORMATION FROM THE NDDEQ, CONTACT:
    NORTH DAKOTA DEPARTMENT OF ENVIRONMENTAL QUALITY
    DIVISION OF WATER QUALITY
    4201 NORMANDY STREET
    BISMARCK, ND 58503-1324
    (701) 328-5210.

59. CONTRACTOR SHALL ABIDE BY ALL REQUIREMENTS OF THE NDPDES PERMIT AND SWPPP. MAINTENANCE, INSPECTIONS, AND REMOVAL OF THE EROSION CONTROL MEASURES AND INSTALLATION OF ADDITIONAL EROSION CONTROL MEASURES SHALL BE CONSIDERED INCIDENTAL TO THE WORK PERFORMED.

60. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS CONTROLLING POLLUTION OF THE ENVIRONMENT. NECESSARY PRECAUTIONS SHALL BE TAKEN TO PREVENT POLLUTION OF STREAMS, LAKES, PONDS, AND RESERVOIRS WITH FUELS, OILS, BITUMENS, CHEMICALS, OR OTHER HARMFUL MATERIALS AND TO PREVENT POLLUTION OF THE ATMOSPHERE FROM PARTICULATE AND GASEOUS MATTER. THIS MAY MEAN EMPLOYING ADEQUATE DUST FILTERS, SMOKE COLLECTORS, CONTROLLING BURNING, WATERING HAUL ROADS, PROVIDING EROSION PROTECTION, OR ANY OTHER MEANS NEEDED TO MEET EXISTING REQUIREMENTS. NO ADDITIONAL PAYMENT WILL BE MADE TO THE CONTRACTOR FOR ANY EXPENSES NEEDED TO COMPLY WITH APPROPRIATE AIR AND WATER POLLUTION CONTROL STANDARDS.

61. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE FAMILIAR WITH ALL APPLICABLE NORTH DAKOTA STATE DEPARTMENT OF ENVIRONMENTAL QUALITY, PARTICULARLY "WATER QUALITY STANDARDS FOR SURFACE WATER OF NORTH DAKOTA" AND "AIR POLLUTION CONTROL REGULATIONS", INCLUDING LOCAL AND FEDERAL REQUIREMENTS, PERTAINING TO CONTROL OF OR ABATEMENT OF AIR AND WATER POLLUTION.

CONSTRUCTION STAKING:

62. THE OWNER HAS HIRED KLJ ENGINEERING LLC. TO PROVIDE CONSTRUCTION STAKING SERVICES. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 72 HOURS NOTICE TO THE SURVEYOR.

63. ENGINEER SHALL STAKE THE FOLLOWING ITEMS:
    A. BENCHMARKS AND CONTROLS FOR CONTRACTOR'S GPS & STRIPPING LIMITS (1 SITE VISIT)
    B. BUILDING FOUNDATION CORNERS (1 SITE VISIT); INTERIOR GRIDLINES AND WALL STAKING NOT INCLUDED.
    C. SANITARY SEWER SERVICE: STAKE CLEANOUT AND EACH PROPOSED FITTING (1 SITE VISIT); CONTRACTOR TO VERIFY LOCATION & INVERT OF EXISTING SANITARY SERVICE.
    D. WATER SERVICE: EVERY 25 FEET AND EACH PROPOSED FITTING (1 SITE VISIT); CONTRACTOR TO VERIFY LOCATION & INVERT OF EXISTING WATER SERVICE.
    E. CONCRETE PAVEMENT & SIDEWALKS: STAKE CORNERS OF PAVEMENT AND GRADE BREAKS (1 SITE VISIT); DOES NOT INCLUDE BLUE TOPPING AGGREGATE BASE.
    F. CONTRACTOR TO REQUEST STAKING WITH THE AMOUNT OF SITE VISITS LISTED ABOVE.
    G. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITIONAL STAKING.

64. ENGINEER SHALL FURNISH TO ONE CONTRACTOR ONE SET OF ELECTRONIC FILES ONE TIME FOR USE WITH GPS GUIDED EQUIPMENT. THE FILES WILL INCLUDE AUTOCAD .DWG FILES FOR THE EXISTING AND PROPOSED LINEWORK, .XML FILES OF THE EXISTING AND PROPOSED FINISHED GRADE GROUND SURFACE, AND A .CSV FILE FOR THE CONTROL POINTS. CONTRACTOR SHALL EXECUTE AN ELECTRONIC DATA RELEASE AGREEMENT WITH ENGINEER PRIOR TO ISSUANCE OF ELECTRONIC FILES. ADDITIONAL FILES, REVISIONS, OR ELECTRONIC DATA RELEASE AGREEMENTS MAY BE AVAILABLE TO CONTRACTOR FOR A FEE.

WATFORD CITY SITE PLAN REVIEW:

65. CONTRACTOR IS ADVISED THAT THESE PLANS AND SPECIFICATIONS HAVE NOT BEEN APPROVED BY WATFORD CITY. BY SUBMITTING A BID, CONTRACTOR AGREES TO PROJECT CHANGES NECESSARY TO SATISFY SITE PLAN REVIEW COMMENTS EXPRESSED BY WATFORD CITY, IF ANY.

LEGEND

EXISTING	ITEM	PROPOSED
	FIRE HYDRANT	
	GATE VALVE	
	CURB STOP	
	YARD HYDRANT	
	BEND	
	TEE	
	CROSS	
	REDUCER	
	VERTICAL BEND	
	WATER MANHOLE	
	SPRINKLER HEAD	
	WATER METER	
	CATHODIC TEST STATION	
	TRACER WIRE ACCESS BOX	
	SANITARY MANHOLE	
	SANITARY FORCEMAIN MANHOLE	
	SANITARY MANHOLE W. VALVE	
	CLEANOUT	
	STORM SEWER MANHOLE	
	CURB INLET	
	CATCH BASIN	
	POWER POLE	
	GUY WIRE	
	LIGHT POLE	
	ELECTRICAL PEDESTAL	
	ELECTRICAL METER	
	ELECTRICAL JUNCTION (PULL BOX)	
	ELECTRICAL BOX	
	ELECTRICAL OUTLET/PLUG-IN	
	ELECTRICAL MANHOLE	
	TELEPHONE MANHOLE	
	TELEPHONE PEDESTAL	
	CABLE TV PEDESTAL	
	FIBER OPTIC PEDESTAL	
	GAS METER	
	GAS MANHOLE	
	FUEL DISPENSER	
	UTILITY MARKER	
	GAS VENT PIPE	
	TREES CONIFEROUS/ DECIDUOUS	
	BUSH/SHRUB	
	SIGN	
	CONTROL POINT	
	BENCHMARK	
	PIPE CAP	
	MAIL BOX	
	PROPERTY PIN	
	ASPHALT EDGE	
	BUILDING CANOPY	
TV TV TV	CABLE TV - UNDERGROUND	TV TV TV
	CENTERLINE	
	CONSTRUCTION LIMITS	
E(O) E(O) E(O)	ELECTRICAL - OVERHEAD	E(O) E(O) E(O)
E E E	ELECTRICAL - UNDERGROUND	E E E
X X X	FENCE - BARBED WIRE	X X X
	FENCE - CHAINLINK	
	FENCE - PLASTIC, VINYL	
	FENCE - WOOD	
	FENCE - WOVEN WIRE	
FO FO FO	FIBER - UNDERGROUND	FO FO FO
G G G	GAS - UNDERGROUND	G G G
	GRAVEL EDGE	
FM FM FM	SANITARY SEWER FORCE MAIN	FM FM FM
S S S	SANITARY SEWER SERVICE LINE	>> >> >>
S S S	SANITARY SEWER (24" OR LESS)	>> >> >>
S S S	SANITARY SEWER (24" OR MORE)	>> >> >>
	STORM SEWER EDGEDRAIN	
ST ST ST	STORM SEWER (24" OR LESS)	> > >
ST ST ST	STORM SEWER (24" OR MORE)	> > >
T(O) T(O) T(O)	TELEPHONE - OVERHEAD	T(O) T(O) T(O)
T T T	TELEPHONE - UNDERGROUND	T T T
W W W	WATER SERVICE LINE	W W W
W W W	WATER MAIN	W W W

AC	ASPHALT CEMENT
AGGR	AGGREGATE
AHD	AHEAD
APPROX	APPROXIMATE OR APPROXIMATELY
ARV	AIR RELEASE VALVE
ASPH	ASPHALT
BIT	BITUMINOUS
BK	BACK
BM	BENCH MARK
BLDG	BUILDING
C&G	CURB & GUTTER
CI	CAST IRON
CL	CENTERLINE
CMES	CORRUGATED METAL END SECTION
CMP	CORRUGATED METAL PIPE
CP	CONTROL POINT
CPP	CORRUGATED PLASTIC PIPE
CONST	CONSTRUCTION
CONC	CONCRETE
CPLG	COUPLING
CS	CURB STOP
CY	CUBIC YARD
D	DEGREE OF CURVATURE
DB	DITCH BLOCK
DEFL	DEFLECTION
DG	DITCH GRADE
EA	EACH
EL	ELEVATION
ELEC	ELECTRIC
EMB	EMBANKMENT
EQ	EQUATION
ES	END SECTION
ESMT	EASEMENT
EX	EXISTING
EXC	EXCAVATION
FES	FLARED END SECTION
FF	FINISHED FLOOR
FG	FINISHED GRADE
GR	GRAVEL
HDPE	HIGH DENSITY POLYETHYLENE PIPE
HORZ	HORIZONTAL
HP	HIGH POINT
HYD	HYDRANT
INST	INSTALL
INV	INVERT
JB	JUNCTION BOX
L	LENGTH
LF	LINEAR OR LINEAL FEET
LONG	LONGITUDINAL
LP	LOW POINT OR LIGHT POLE
LS	LUMP SUM
LT	LEFT
MAX	MAXIMUM
ME	MATCH EXISTING
MH	MANHOLE
MIN	MINIMUM
PVC	POLYVINYL CHLORIDE PIPE
P & P	PLAN & PROFILE
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVE
PI	POINT OF INTERSECTION
PIV	POST INDICATOR VALVE
POC	POINT ON CURVE
POT	POINT ON TANGENT
PP	POWER POLE
PRC	POINT OF REVERSE CURVATURE
PRV	PRESSURE REDUCING VALVE
PT	POINT OF TANGENCY
PVI	POINT OF VERTICAL INTERSECTION
R	RADIUS
RCES	REINFORCED CONCRETE END SECTION
RCP	REINFORCED CONCRETE PIPE
RDWY	ROADWAY
RR	RAILROAD
RT	RIGHT
R/W ROW	RIGHT-OF-WAY
SALV	SALVAGE
SAN	SANITARY
SE	SUPERELEVATION
SEC	SECTION
SF	SQUARE FEET
SHLDR	SHOULDER
SSD	STOPPING SIGHT DISTANCE
SEC LINE	SECTION LINE
SPEC	SPECIFICATION
STA	STATION
STD	STANDARD
STRUCT	STRUCTURE
SURV	SURVEY
SW	SIDEWALK
SY	SQUARE YARD
T	TANGENT
TA	TOP OF ASPHALT
TBC	TOP BACK OF CURB
TC	TOP OF CONCRETE
TEL	TELEPHONE
TEMP	TEMPORARY
THEOR	THEORETICAL
TP	TOP OF PAVEMENT
TR	TRAFFIC
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
VERT	VERTICAL
WM	WATER MAIN
WV	WATER VALVE
XSEC	CROSS SECTION

EAPC

TELEPHONE 701.609.5290
313 Main Street, Suite 200, Williston ND 58801
www.eapc.net

CONSULTANTS

KLJ

KLJ PROJECT # 2604-10013

CLIENT
WATFORD CITY PARK DISTRICT

PROJECT DESCRIPTION
PARK SHOP BUILDING - RE-BID

CITY WATFORD CITY
STATE ND

ISSUE DATES

MARK	DESCRIPTION	DATE
CD	RE-BID	05/20/2026
CD	CONSTRUCTION DOCUMENTS	03/25/2026

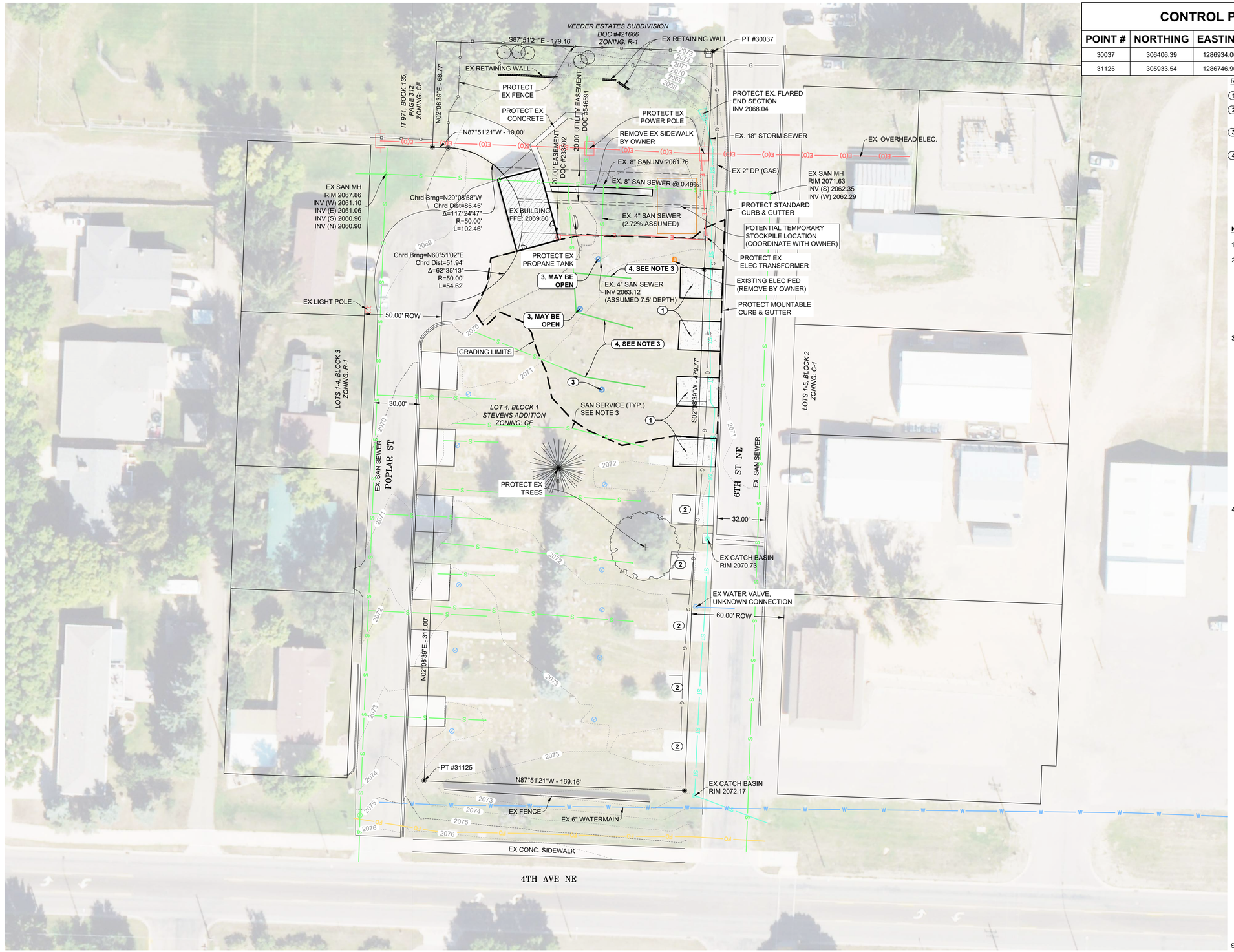
PROJECT NO: 20262250
DRAWN BY: BJN
CHECKED BY: ADW

STAMP

REGISTERED PROFESSIONAL ENGINEER
BRENT JAMES NOONAN
PE-29358
DATE 5/20/2026
NORTH DAKOTA

DRAWING TITLE
LEGEND & ABBREV.

C1.1



CONTROL POINT TABLE

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
30037	306406.39	1286934.00	2073.01	NE PROPERTY CORNER
31125	305933.54	1286746.90	2073.51	SW PROPERTY CORNER

REMOVAL KEYNOTES:

1. REMOVE CONCRETE SURFACING
2. OWNER TO REMOVE CONCRETE (FUTURE PHASE)
3. REMOVE EXISTING CURBSTOP & SHUTOFF CORP STOP AT MAIN
4. REMOVE SANITARY SERVICE, CAP BEYOND BUILDING EXCAVATION

NOTES:

1. EXISTING CONTOURS SHOWN AT 1' INTERVALS.
2. ELECTRICAL AND GAS SERVICES ARE SHOWN IN AN APPROXIMATE LOCATION BASED ON GIS EXHIBITS PROVIDED BY MDU. CONTRACTOR SHALL WORK WITH THE UTILITY COMPANY TO VERIFY THE LOCATION AND DETERMINE IF THE SERVICE IS ACTIVE. THE OWNER HAS ALSO REMOVED SEVERAL OF THE UTILITY PEDESTALS. ALL UTILITIES UNDER THE BUILDING SHALL BE REMOVED OR RELOCATED.
3. SANITARY SEWER AND WATER SERVICES ARE SHOWN IN AN APPROXIMATE LOCATION BASED ON A 2018 PLAN EXCERPT FROM THE PREVIOUS MOBILE HOME PARK AND GIS EXHIBITS PROVIDED BY THE CITY. CONTRACTOR SHALL WORK WITH THE CITY TO VERIFY THE LOCATION AND DETERMINE IF THE SERVICES ARE ACTIVE. IT IS LIKELY THAT ALL WATER AND SANITARY SEWER SERVICES ARE ACTIVE BUT THE LOCATION OF THE MAINS ARE UNKNOWN. THE OWNER HAS CUT OFF THE SANITARY SEWER SERVICE RISERS UNDER THE OLD MOBILE HOMES AND CAPPED THEM JUST UNDER THE SURFACE TO ALLOW FOR EASE OF MOWING. THE OWNER HAS ALSO REMOVED SEVERAL CURB STOP RISERS AND BOXES. THE OWNER HAS SHUT OFF ALL CURB STOPS EXCEPT TWO WHICH WERE INOPERABLE. ALL WATER AND SANITARY SEWER SERVICES UNDER THE BUILDING SHALL BE REMOVED AND CAPPED.
4. EXISTING UTILITIES (SANITARY SERVICE, WATER SERVICE, GAS, ELECTRICAL, ETC.) FROM THE PREVIOUS MOBILE HOME PARK ARE STILL PRESENT ONSITE. SEVERAL OF THE ABOVE GROUND APPURTENANCES HAVE BEEN REMOVED BY THE OWNER, BUT UNDERGROUND SERVICES WERE ABANDONED OR REMAIN ACTIVE. CONTRACTOR SHALL USE CAUTION ENCOUNTERING EXISTING UTILITIES DURING EXCAVATION. IF ENCOUNTERED, UTILITIES SHALL BE REMOVED FROM BUILDING EXCAVATION AND CAPPED OR RELOCATED. CONTRACTOR SHALL NOTIFY THE ENGINEER IF UTILITIES NOT SHOWN ON PLANS ARE ENCOUNTERED AND DOCUMENT ENCOUNTERED UTILITIES AND LOCATION OF CAPPED UTILITIES ON THEIR AS-BUILT DRAWINGS .

N

30 0 30 60
SCALE NAVD 88 FEET

EAPC
TELEPHONE 701.609.5290
313 Main Street, Suite 200, Williston ND 58801
www.eapc.net

CONSULTANTS

KLJ

KLJ PROJECT # 2604-10013

CLIENT
WATFORD CITY PARK DISTRICT

PROJECT DESCRIPTION
PARK SHOP BUILDING - RE-BID

CITY WATFORD CITY
STATE ND

ISSUE DATES

MARK	DESCRIPTION	DATE
CD	RE-BID	05/20/2026
CD	CONSTRUCTION DOCUMENTS	03/25/2026

PROJECT NO: 20262250
DRAWN BY: JP
CHECKED BY: ADW

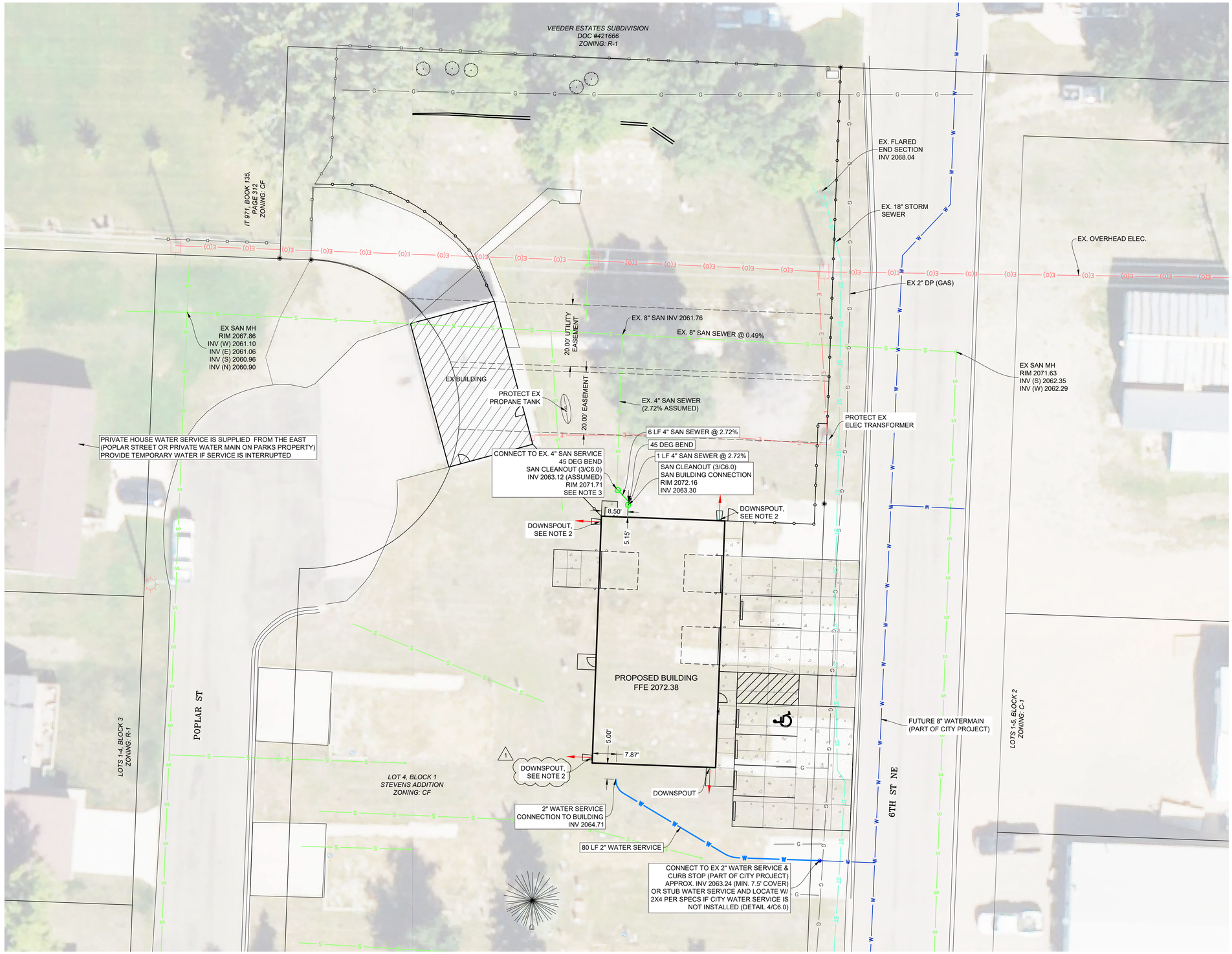
STAMP

REGISTERED PROFESSIONAL ENGINEER
BRENT JAMES NOONAN
PE-29358
DATE 5/20/2026
NORTH DAKOTA

DRAWING TITLE
EXISTING CONDITIONS & REMOVALS

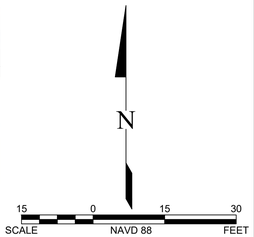
C2.0

K:\Projects\City\ND\WatfordCity\2604-10013-WatfordParksShop\CAD\Design\Plans\2604-10013-WatfordParksShop-C2-ExistingConditions&Removals.dwg (C2.0)



NOTES:

1. ALL DIMENSIONS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE, UNLESS OTHERWISE STATED.
2. INSTALL CONCRETE SPLASH PAD AT INDICATED DOWNSPOUT LOCATIONS, SEE ARCH PLANS.
3. CONTRACTOR TO VERIFY SANITARY SERVICE LOCATION AND INVERT DEPTH. CONTRACTOR SHALL NOTIFY THE ENGINEER OF LOCATION AND SERVICE INVERT.



K:\Projects\City\ND\WatfordCity\2604-10013-WatfordParksShop\CAD\Design\Plans\2604-10013-WatfordParksShop-C3-SiteUtilityPlan.dwg (C3.0)

EAPC

TELEPHONE 701.609.5290
313 Main Street, Suite 200, Williston ND 58801
www.eapc.net

CONSULTANTS

KLJ

KLJ PROJECT # 2604-10013

CLIENT
WATFORD CITY PARK DISTRICT

PROJECT DESCRIPTION
PARK SHOP BUILDING - RE-BID

CITY WATFORD CITY
STATE ND

ISSUE DATES

MARK	DESCRIPTION	DATE
CD	RE-BID	05/20/2026
CD	CONSTRUCTION DOCUMENTS	03/25/2026

PROJECT NO: 20262250
DRAWN BY: JP
CHECKED BY: ADW

STAMP

REGISTERED PROFESSIONAL ENGINEER
BRENT JAMES NOONAN
PE-29358
DATE 5/20/2026
NORTH DAKOTA

DRAWING TITLE
SITE UTILITY PLAN

C3.0

LAYOUT KEYNOTES:

1. 4" UNREINFORCED CONCRETE, SEE DETAIL 7/C6.0
2. 5.5" REINFORCED CONCRETE, SEE DETAIL 8/C6.0
3. ACCESSIBLE PARKING STALL STRIPING, SEE DETAIL 1/C6.1
4. ACCESSIBLE PARKING STALL SIGN, SEE DETAIL 2/C6.1
5. BOLLARD, SEE DETAIL 3/C6.1
6. CONCRETE WHEEL STOPS (BY OWNER)
7. CHAINLINK FENCE (BY OWNER)
8. LANDSCAPE ROCK (BY OWNER)
9. 4" YELLOW STRIPING
10. BUILDING STOOP, SEE STRUCTURAL PLANS

N

SCALE 15 0 15 30 NAVD 88 FEET

K:\Projects\City\ND\WatfordCity\2604-10013-WatfordParksShop\CAD\Design\Plans\2604-10013-WatfordParksShop-C4-SiteLayoutPlan.dwg (C4.0)

EAPC

TELEPHONE 701.609.5290
313 Main Street, Suite 200, Williston ND 58801
www.eapc.net

CONSULTANTS

KLJ

KLJ PROJECT # 2604-10013

CLIENT
WATFORD CITY PARK DISTRICT

PROJECT DESCRIPTION
PARK SHOP BUILDING - RE-BID

CITY WATFORD CITY
STATE ND

ISSUE DATES

MARK	DESCRIPTION	DATE
CD	RE-BID	05/20/2026
CD	CONSTRUCTION DOCUMENTS	03/25/2026

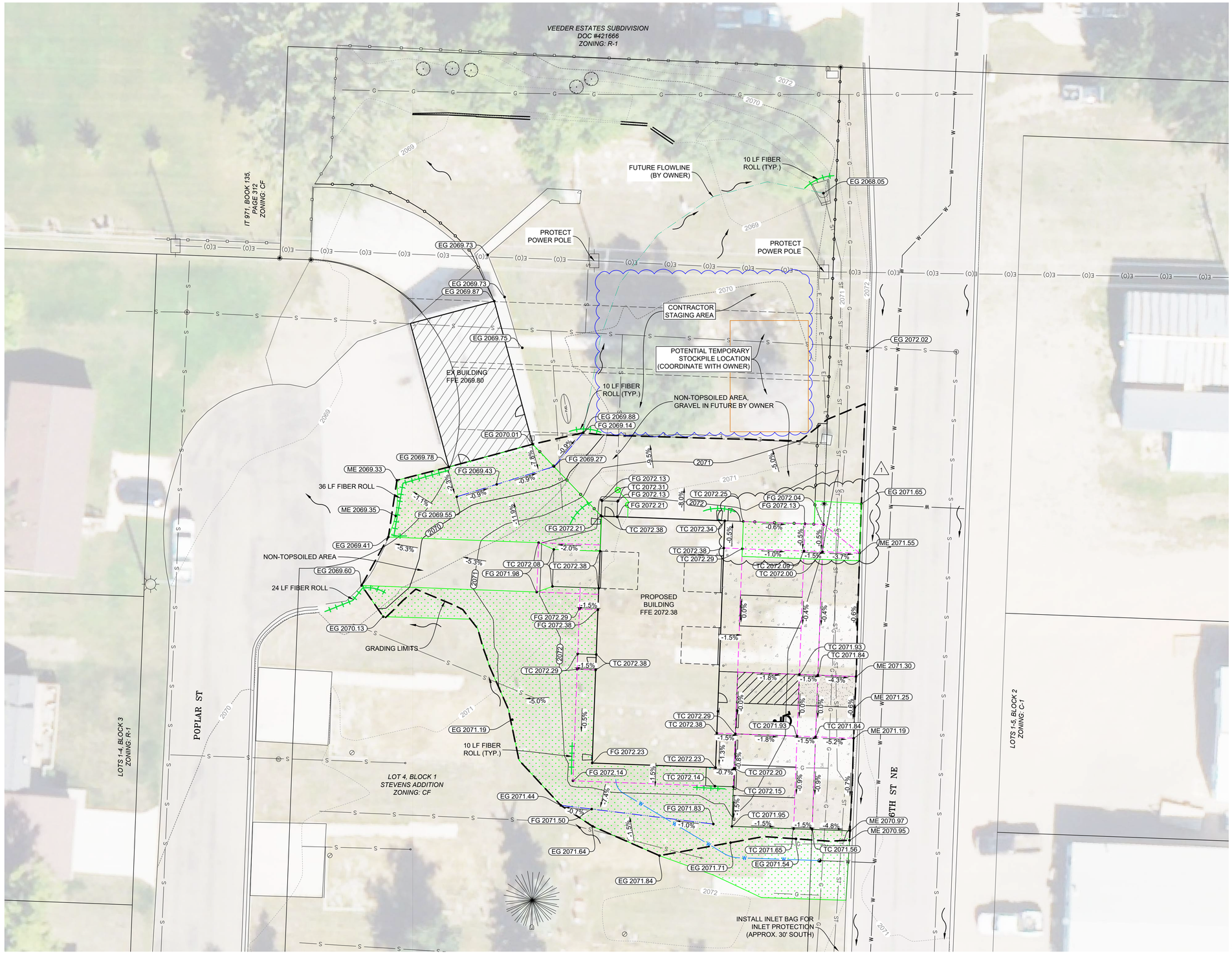
PROJECT NO: 20262250
DRAWN BY: BJN
CHECKED BY: ADW

STAMP

REGISTERED PROFESSIONAL ENGINEER
BRENT JAMES NOONAN
PE-29358
DATE 5/20/2026
NORTH DAKOTA

DRAWING TITLE
SITE LAYOUT PLAN

C4.0



LEGEND

- 1814 EXISTING CONTOURS
- (1814) PROPOSED CONTOURS
- FLOW LINE
- BREAKLINE
- GRADING LIMITS
- FIBER ROLL, SEE DETAIL 1/C6.0
- NON- IRRIGATED SEED MIX, SEE SPECS
- RUNOFF FLOW DIRECTION

BL: BREAK LINE
EG: EXISTING GRADE
FG: FINISH GRADE
FL: FLOW LINE
HP: HIGH POINT
INV: INVERT ELEVATION
LP: LOW POINT
ME: MATCH EXISTING
RIM: RIM ELEVATION
TC: TOP OF CONCRETE

NOTES:

1. EXISTING AND PROPOSED CONTOURS SHOWN AT 1' INTERVALS.
2. CONTRACTOR SHALL REMOVE ALL UNSUITABLE MATERIAL BELOW THE BUILDING AND INSTALL STRUCTURAL FILL AS RECOMMENDED BY THE STRUCTURAL ENGINEER.
3. ALL SEEDED AREAS SHALL BE HYDROMULCHED.

EAPC
TELEPHONE 701.609.5290
313 Main Street, Suite 200, Williston ND 58801
www.eapc.net

CONSULTANTS

KLJ

KLJ PROJECT # 2604-10013

CLIENT
WATFORD CITY PARK DISTRICT

PROJECT DESCRIPTION
PARK SHOP BUILDING - RE-BID

CITY WATFORD CITY
STATE ND

ISSUE DATES

CD	RE-BID	05/20/2026
CD	CONSTRUCTION DOCUMENTS	03/25/2026
MARK	DESCRIPTION	DATE

PROJECT NO: 20262250
DRAWN BY: BJN
CHECKED BY: ADW

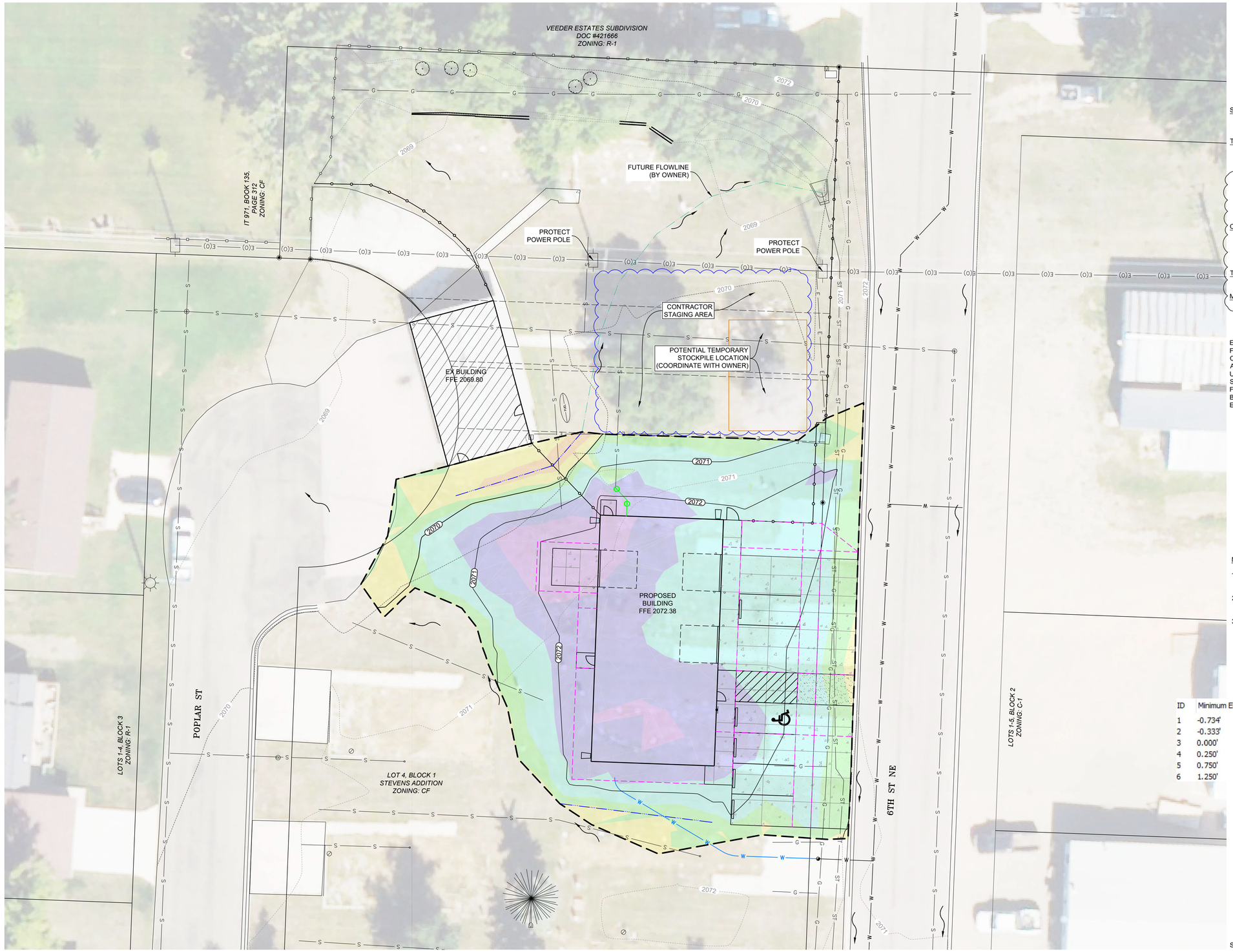
STAMP

REGISTERED PROFESSIONAL ENGINEER
BRENT JAMES NOONAN
PE-29358
DATE 5/20/2026
NORTH DAKOTA

DRAWING TITLE
GRADING PLAN

C5.0

K:\Projects\City\ND\WatfordCity\2604-10013-WatfordParksShop\CAD\Design\Plans\2604-10013-WatfordParksShop-C5-SpotElevationPlan.dwg (C5.0)



1814 EXISTING CONTOURS

(1814) PROPOSED CONTOURS

FLOW LINE

BREAKLINE

GRADING LIMITS

RUNOFF FLOW DIRECTION

SHRINKAGE FACTOR
20.0% WAS ASSUMED IN CALCULATIONS FOR SHRINKAGE FOR EMBANKMENT

TOPSOIL
TOPSOIL REMOVAL AREA = 0.34 ACRES
ASSUMED EXISTING TOPSOIL DEPTH = 4"
TOPSOIL REMOVED = 184 CY

1

TOPSOIL REPLACEMENT AREA = 0.15 ACRES
TOPSOIL REPLACEMENT DEPTH = 9"
TOPSOIL REPLACED = 182 CY

TOPSOIL BALANCE: 184 CY - 182 CY = 2 CY*

COMMON EXCAVATION
EXCAVATION TO SUBGRADE = 85 CY (EV)
BUILDING EXCAVATION (4' CUT) = 435 CY (EV)

EMBANKMENT TO SUBGRADE = 124 CY (CV)

TOTAL MATERIAL REQUIRED
124 CY * (1+0.20) = 149 CY (EV)

MATERIAL BALANCE
149 CY (EV) - (85 + 435) CY (EV) = 371 CY (EV)**

*EXCESS TOPSOIL MATERIAL
**MATERIAL TO BE REMOVED FROM SITE

ENGINEER HAS ASSUMED A COMPACTION FACTOR FOR THE PROJECT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE ADEQUACY OF THIS ASSUMPTION IN ORDER TO USE ALL OF THE MATERIAL ON-SITE WITH NO STOCKPILES REMAINING AFTER CONSTRUCTION. FIELD ADJUSTMENTS MAY BE REQUIRED TO BALANCE THE SITE WITH APPROVAL OF THE ENGINEER. (INCIDENTAL TO PROJECT)
CV = COMPACTED VOLUME
EV = EXCAVATED VOLUME

NOTES:

1. EXISTING AND PROPOSED CONTOURS SHOWN AT 1' INTERVALS.
2. CUT AND FILL SURFACE IS SHOWN FROM TOP OF EXISTING TO TOP OF FINISH GRADE.
3. CONTRACTOR SHALL REMOVE ALL UNSUITABLE MATERIAL BELOW THE BUILDING AND INSTALL STRUCTURAL FILL AS RECOMMENDED BY THE STRUCTURAL ENGINEER.

ID	Minimum Elevation	Maximum Elevation	Color Scheme
1	-0.734'	-0.333'	
2	-0.333'	0.000'	
3	0.000'	0.250'	
4	0.250'	0.750'	
5	0.750'	1.250'	
6	1.250'	1.810'	

N

15 0 15 30
SCALE NAVD 88 FEET

K:\Projects\City\ND\WatfordCity\2604-10013-WatfordParksShop\CAD\Design\Plans\2604-10013-WatfordParksShop-C5-SpotElevationPlan.dwg (C5.1)

EAPC
TELEPHONE 701.609.5290
313 Main Street, Suite 200, Williston ND 58801
www.eapc.net

CONSULTANTS

KLJ

KLJ PROJECT # 2604-10013

CLIENT
WATFORD CITY PARK DISTRICT

PROJECT DESCRIPTION
PARK SHOP BUILDING - RE-BID

CITY WATFORD CITY
STATE ND

ISSUE DATES

MARK	DESCRIPTION	DATE
CD	RE-BID	05/20/2026
CD	CONSTRUCTION DOCUMENTS	03/25/2026

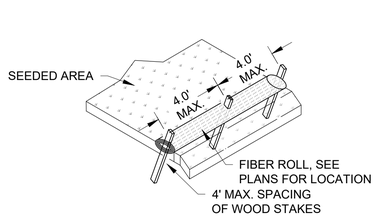
PROJECT NO: 20262250
DRAWN BY: BJN
CHECKED BY: ADW

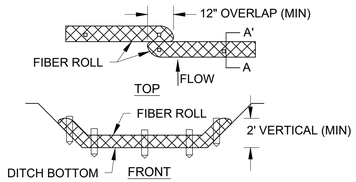
STAMP

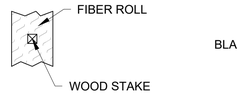
REGISTERED PROFESSIONAL ENGINEER
BRENT JAMES NOONAN
PE-29358
DATE 5/20/2026
NORTH DAKOTA

DRAWING TITLE
CUT & FILL PLAN

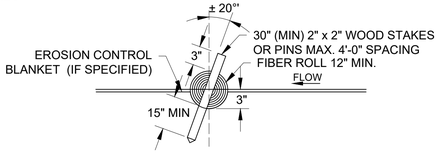
C5.1



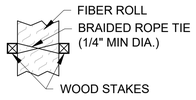




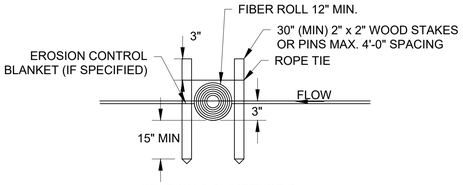
INSTALLATION METHOD A



SECTION A-A' (METHOD A)

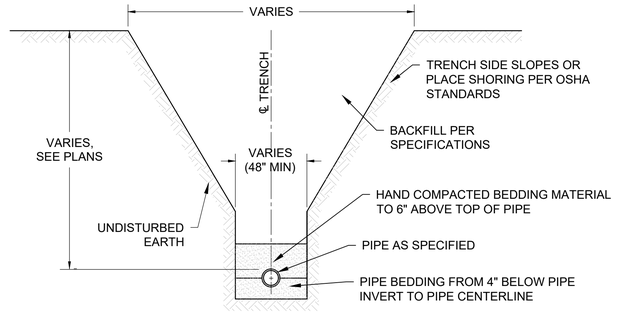


INSTALLATION METHOD B



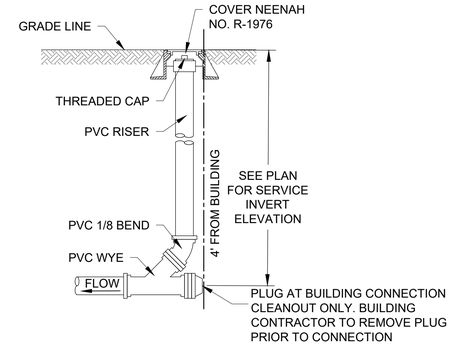
SECTION A-A' (METHOD B)

1 C6.0 FIBER ROLL INSTALLATION
NOT TO SCALE

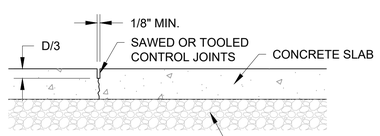


NOTES:
1. IF CONFORMING MATERIAL IS NOT AVAILABLE ONSITE, CONTRACTOR SHALL IMPORT PIPE BEDDING WITH GRADATION PER SPECIFICATION.
2. CONTRACTOR TO VERIFY BEDDING MEETS MANUFACTURER'S REQUIREMENTS.

2 C6.0 HDPE & PVC UTILITY TRENCHING & PIPE BEDDING
NOT TO SCALE

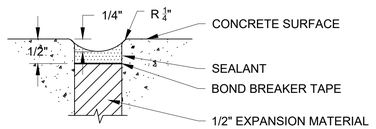


3 C6.0 SANITARY SEWER CLEANOUT
NOT TO SCALE



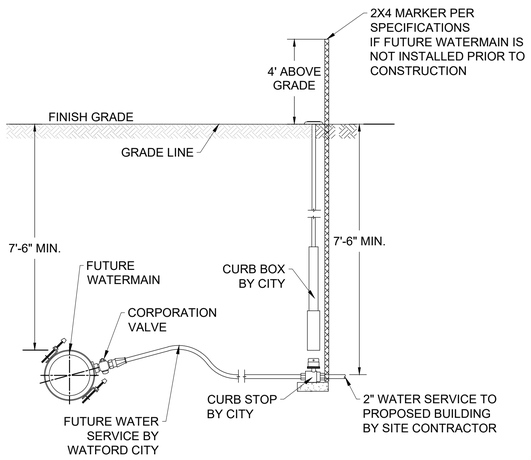
NOTES:
1. D = DEPTH OF CONCRETE
2. PROVIDE 1/4" RADIUS FOR TOOLED CONTROL JOINTS.

5 C6.0 CONTROL JOINT
NOT TO SCALE

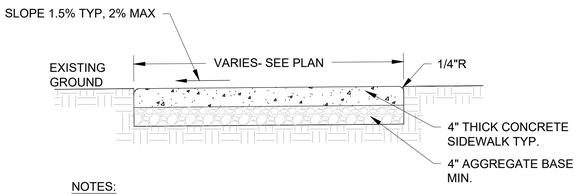


NOTES:
1. IN LIEU OF BOND BREAKER TAPE, EXPANSION MATERIAL MAY BE HELD LOW, AND BACKER ROD MAY BE INSTALLED.
2. ALL EXPANSION JOINTS SHALL BE SEALED.

6 C6.0 EXPANSION JOINT SEAL
NOT TO SCALE

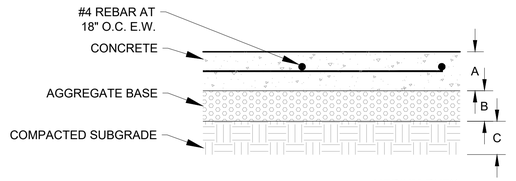


4 C6.0 WATER SERVICE CONNECTION
NOT TO SCALE



NOTES:
1. 1/2" PRE-FORMED EXPANSION JOINT FILLER SHALL BE INSTALLED FOR THE FULL THICKNESS OF THE SIDEWALK AND SHALL BE USED AT ALL JOINTS BETWEEN NEW SIDEWALK AND EXISTING SIDEWALK. EXPANSION JOINT SPACING SHALL NOT EXCEED 100'.
2. DOWELED EXPANSION JOINT SHALL BE CONSTRUCTED WITH 12" LONG #4 BARS AT 12" O.C. SPACING, CENTERED IN THE JOINT AND SLAB.
3. ALL EXPANSION JOINTS SHALL BE SEALED.
4. CONTROL JOINT SPACING SHALL NOT EXCEED THE WIDTH OF THE SIDEWALK OR 6 FEET, WHICHEVER IS LESS.

7 C6.0 4" CONCRETE SIDEWALK
NOT TO SCALE



		MEDIUM-DUTY
(A)	PORTLAND CEMENT CONCRETE	5.5"
(B)	AGGREGATE BASE COURSE	6"
(C)	COMPACTED / PREPARED SUBGRADE	12"

NOTES:
1. SUB-GRADE SHALL BE PREPARED AND COMPACTED IN ACCORDANCE WITH SPECIFICATIONS. SEE NOTES SHEET.
2. CONTROL JOINT SPACING SHALL BE NO GREATER THAN 2X THE PAVEMENT THICKNESS IN FEET.
3. CONTROL JOINTS SHALL BE SAWED OR TOOLED TO 1/3 CONCRETE DEPTH (MIN.)
4. PRE-FORMED 1/2" EXPANSION JOINT FILLER SHALL BE INSTALLED FOR THE FULL THICKNESS OF THE PAVEMENT AND SHALL BE USED AT ALL JOINTS BETWEEN NEW BUILDINGS AND EXISTING CONCRETE.
5. ALL EXPANSION JOINTS SHALL BE SEALED
6. EXPANSION JOINT SPACING SHALL NOT EXCEED 100'.
7. MIN. CLEAR COVER TO BE PROVIDED:
   TOP: 2" SIDE: 3" BOTTOM: 2"

8 C6.0 REINFORCED CONCRETE DETAIL
NOT TO SCALE

EAPC
TELEPHONE 701.609.5290
313 Main Street, Suite 200, Williston ND 58801
www.eapc.net

CONSULTANTS

KLJ

KLJ PROJECT # 2604-10013

CLIENT
WATFORD CITY PARK DISTRICT

PROJECT DESCRIPTION
PARK SHOP BUILDING - RE-BID

CITY WATFORD CITY
STATE ND

ISSUE DATES

MARK	DESCRIPTION	DATE
CD	RE-BID	05/20/2026
CD	CONSTRUCTION DOCUMENTS	03/25/2026

PROJECT NO: 20262250
DRAWN BY: JP
CHECKED BY: ADW

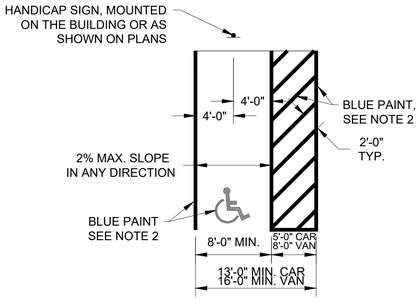
STAMP

REGISTERED PROFESSIONAL ENGINEER
BRENT JAMES NOONAN
PE-29358
DATE 5/20/2026
NORTH DAKOTA

DRAWING TITLE
DETAILS

C6.0

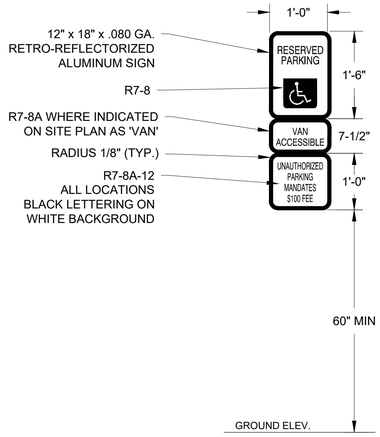
K:\Projects\City\ND\WatfordCity\2604-10013-WatfordParksShop\CAD\Design\Plans\2604-10013-WatfordParksShop-C6-Details.dwg (C6.0)



MIN. CAR & VAN LAYOUT

NOTES:
1. SYMBOL TO BE CENTERED ON WIDTH OF PARKING STALL.
2. USE BLUE (COLOR #105090 IN FEDERAL STANDARD 5952) DOUBLE COAT.
3. ALL DIMENSIONS OF SYMBOL SHALL CONFORM WITH FEDERAL STANDARDS.
4. ONE IN EVERY SIX ACCESSIBLE SPACES, BUT NOT LESS THAN ONE, SHALL BE SERVED BY AN ACCESS AISLE 96" (8') WIDE MINIMUM AND SHALL BE DESIGNATED "VAN ACCESSIBLE".

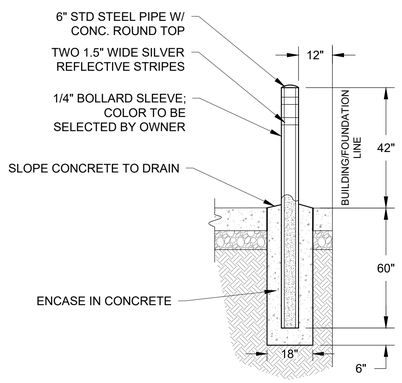
1 C6.1 ACCESSIBLE PARKING STALL STRIPING
NOT TO SCALE



BUILDING MOUNTED SIGNAGE

NOTES:
1. PROVIDE (1) SIGN PER HANDICAP SPACE. SEE SITE PLAN FOR EXACT LOCATION.
2. SIGNS SHALL BE MOUNTED ON THE BUILDING.
3. SIGNS SHALL BE 60" MIN. ABOVE GROUND SURFACE, MEASURED TO BOTTOM OF THE SIGN.

2 C6.1 ACCESSIBLE PARKING STALL SIGN
NOT TO SCALE



3 C6.1 PIPE BOLLARD
NOT TO SCALE

EAPC
TELEPHONE 701.609.5290
313 Main Street, Suite 200, Williston ND 58801
www.eapc.net

CONSULTANTS

KLJ

KLJ PROJECT # 2604-10013

CLIENT
WATFORD CITY PARK DISTRICT

PROJECT DESCRIPTION
PARK SHOP BUILDING - RE-BID

CITY WATFORD CITY
STATE ND

ISSUE DATES

MARK	DESCRIPTION	DATE
CD	RE-BID	05/20/2026
CD	CONSTRUCTION DOCUMENTS	03/25/2026

PROJECT NO: 20262250
DRAWN BY: JP
CHECKED BY: ADW

STAMP

REGISTERED PROFESSIONAL ENGINEER
BRENT JAMES NOONAN
PE-29358
DATE 5/20/2026
NORTH DAKOTA

DRAWING TITLE
DETAILS

C6.1

GENERAL REQUIREMENTS:

1. DESIGN AND CONSTRUCTION OF THIS PROJECT IS PER THE 2024 INTERNATIONAL BUILDING CODE (IBC) INCLUDING REFERENCED STANDARDS AND LOCAL/STATE AMENDMENTS OR BUILDING CODES.
2. THIS PROJECT IS SUBJECT TO SPECIAL INSPECTIONS AS DESCRIBED IN CHAPTER 17 OF THE IBC AND SHALL BE PROVIDED BY AN INDEPENDENT AGENCY.
3. GENERAL CONTRACTOR, CONTRACTOR, CONSTRUCTION MANAGER/AGENCY OR OTHER SIMILAR ENTITY OR REFERENCE ARE SYNONYMOUS AS IT RELATES TO USE OF AND RESPONSIBILITIES ASSIGNED BY THE CONTRACTOR DOCUMENTS.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF STRUCTURAL SYSTEMS WITH OTHER TRADES AND CONTRACT DOCUMENTS, NOTIFY THE EOR OF ANY DISCREPANCIES.
5. CONTRACTOR SHALL PROVIDE VERIFICATION OF QUANTITIES AND DIMENSIONS, MEANS AND METHODS OF CONSTRUCTION, SAFE AND SECURE PERFORMANCE OF THE WORK, AND TO NOT ALTER OR CUT ANY STRUCTURAL MEMBER WITHOUT APPROVAL FROM THE EOR.
6. THE STRUCTURAL DESIGN REPRESENTS THE COMPLETED STATE ANY TEMPORARY BRACING OR SHORING REQUIRED TO MAINTAIN STABILITY DURING CONSTRUCTION SHALL BE DESIGNED, FURNISHED, AND INSTALLED BY THE CONTRACTOR.
7. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSIONS, ELEVATIONS, FRAMING MEMBERS, AND SITE CONDITIONS PRIOR TO STARTING THE WORK AND NOTIFY THE EOR OF ANY DISCREPANCIES.
8. EXACT LOCATION AND SIZE OF ROOF/FLOOR/WALL OPENINGS, SLEEVES, OR MECHANICAL PENETRATIONS TO BE COORDINATED BY THE CONTRACTOR; SIMILAR FOR HOUSEKEEPING PADS, INSERTS AND EMBEDS, DEPRESSIONS, BOX-OUTS, SLOPES, DOORS AND WINDOWS, NON-BEARING WALLS, STAIRS, FINISHES, WATERPROOFING, RAILINGS, MECHANICAL EQUIPMENT LOCATIONS, LEDGES, INSULATION AND OTHER NON-STRUCTURAL ITEMS NECESSARY TO COMPLETE THE WORK.
9. CONTRACTOR SHALL PROVIDE CONTRACTOR APPROVED AND STAMPED SHOP DRAWINGS AND PRODUCT DATA FOR REVIEW WITH GENERAL CONFORMANCE TO THE CONTRACTOR DOCUMENTS.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION AND COORDINATION WITH TESTING AND INSPECTION AGENCIES DURING CONSTRUCTION OR WHOEVER REMAINS RESPONSIBLE FOR PERFORMING WORK IN COMPLIANCE WITH THE CONTRACT DOCUMENTS.
11. CONSTRUCTION OBSERVATION BY THE STRUCTURAL ENGINEER IS FOR GENERAL CONFORMANCE WITH THE CONTRACT DOCUMENTS ONLY.
12. DEFERRED SUBMITTAL ITEMS REQUIRE SHOP DRAWINGS AND CALCULATIONS STAMPED AND SIGNED BY A PROFESSIONAL ENGINEER IN THE STATE WHERE THE PROJECT IS LOCATED AS FOLLOWS:
    A. LADDERS AND CONNECTION TO STRUCTURE
    B. PRE-ENGINEERED WOOD TRUSSES

SPECIAL INSPECTION AND TESTING:

1. OWNER SHALL EMPLOY SERVICES OF AN INDEPENDENT TESTING AGENCY TO PERFORM SPECIFIED SPECIAL INSPECTION AND TESTING AS REQUIRED BY THE IBC OR AS SPECIFICALLY NOTED.
2. SPECIAL INSPECTION AND TESTING SHALL BE COMPLETED IN ACCORDANCE WITH CHAPTER 17 OF THE IBC AND AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
3. CONTRACTOR SHALL PROVIDE SPECIAL INSPECTOR WITH SUFFICIENT NOTICE AND ACCESS TO THE SITE.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF RETESTING OR ADDITIONAL INSPECTION NEEDED AS A RESULT OF UNINSPECTED WORK, FAILED TESTS, OR REJECTED WORK.
5. DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR:
    A. OBSERVE THE WORK ASSIGNED FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS.
    B. FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL AND PROJECT TEAM.
    C. IMMEDIATELY NOTIFY THE CONTRACTOR AND ARCHITECT/EOR OF ANY DISCREPANCIES, DEVIATIONS, OR FAILED TEST FOR CORRECTIVE ACTION.

EARTHWORK AND SUBGRADE PREPARATION:

1. NOTIFY EOR IMMEDIATELY IF ANY QUESTIONABLE SOIL CONDITIONS ARE ENCOUNTERED DURING EXCAVATION; FOUNDATION ELEVATIONS AND SUBGRADE PREPARATION ARE SUBJECT TO CHANGE DEPENDING ON CONDITIONS ENCOUNTERED.
2. PROJECT GEOTECHNICAL ENGINEER SHALL TEST TO VERIFY DESIGN BEARING PRESSURE AND INSPECT SUBGRADE EXCAVATION AND PREPARATION PRIOR TO PROCEEDING WITH PLACEMENT OF FOUNDATIONS AND SLABS.
3. FOUNDATION AND SLABS SHALL BEAR ON UNDISTURBED SOIL OR APPROVED FILL MATERIAL COMPACTED TO A MINIMUM OF 95% OF STANDARD PROCTOR UNLESS OTHERWISE NOTED OR SPECIFIED BY THE PROJECT GEOTECHNICAL ENGINEER.
4. PROTECT EXCAVATIONS AND FOOTINGS FROM THE ACTION OF WATER OR FREEZING AND SHALL NOT BE EARTH FORMED WITHOUT APPROVAL BY THE EOR.
5. CONTRACTOR SHALL PROVIDE TEMPORARY SHORING AS REQUIRED TO COMPLY WITH OSHA STANDARDS.
6. MATERIAL FOR BACKFILL SHALL BE CLEAN, FREE OF WOOD SCRAPS OR OTHER DELETERIOUS SUBSTANCES AND PLACED IN 12" COMPACTED LIFTS, UNLESS NOTED OR SPECIFIED BY THE PROJECT GEOTECHNICAL ENGINEER.
7. BACKFILL AGAINST FOUNDATION WALL CAREFULLY TO AVOID DAMAGE TO THE WALL AND OTHER CONSTRUCTION; NO UNBALANCED BACKFILL SHALL BE PLACED UNLESS WALLS ARE SECURELY BRACED AGAINST OVERTURNING, EITHER BY TEMPORARY CONSTRUCTION BRACING OR PERMANENT CONSTRUCTION, OR DESIGNED TO RETAIN EARTH.
8. EXISTING ON-SITE SUITABLE SOILS ARE ACCEPTABLE BACKFILL MATERIAL PROVIDED THEY CAN BE CONDITIONED AND PLACED TO THE SPECIFIED WATER CONTENT, MEET COMPACTION REQUIREMENTS, AND ARE APPROVED BY THE PROJECT GEOTECHNICAL ENGINEER.
9. GRANULAR FILL SHALL HAVE 100% PASSING THE 1", LESS THAN 50% PASSING THE #40, AND LESS THAN 12% PASSING THE #200 SIEVES UNLESS NOTED OR SPECIFIED BY THE PROJECT GEOTECHNICAL ENGINEER.
10. PROVIDE A MINIMUM 6" THICK DRAINAGE COURSE BELOW ALL INTERIOR FLOOR SLABS ON GRADE UNLESS NOTED OTHERWISE. DRAINAGE COURSE SHALL HAVE 100% PASSING THE 1", LESS THAN 50% PASSING #40, AND LESS THAN 5% PASSING THE #200 SIEVES, UNLESS NOTED OR SPECIFIED BY THE PROJECT GEOTECHNICAL ENGINEER. PROVIDE A 10 MIL VAPOR BARRIER BETWEEN THE DRAINAGE COURSE AND UNDERSIDE OF CONCRETE SLAB.

CAST-IN-PLACE CONCRETE:

1. CONTRACTOR WORK SHALL CONFORM WITH REQUIREMENTS OF ACI 301 AND ACI 318 OR ACI 350, ALONG WITH ACI 305 AND ACI 306 WHEN WEATHER CONDITIONS DICTATE HOT OR COLD WEATHER PROVISIONS.
2. CONCRETE SHALL BE A REDI-MIXED PRODUCT IN CONFORMANCE WITH APPROVED MIX DESIGN SUBMITTALS FOR EACH COMBINATION OF STRENGTH OR APPLICATION AS PREPARED BY THE SUPPLIER OR AND INDEPENDENT TESTING AGENCY.
3. CONCRETE MIX DESIGN PARAMETERS: NORMAL WEIGHT; FLY ASH LIMITED TO 25% BY MASS; MAX W/C RATIO = 0.50; SLUMP = 4" (+/-1"); MAX AGGREGATE = 1 INCH; ADMIXTURE AS PER APPROVED MIX DESIGN.
4. DO NOT USE ADMIXTURES OR CURING ACCELERATORS CONTAINING CALCIUM CHLORIDE.
5. TOLERANCES AND FORMWORK SHALL BE DESIGNED, ERECTED, SUPPORTED, BRACED, AND MAINTAINED TO CONFORM WITH REQUIREMENTS OF ACI 114 AND ACI 347.
6. CHAMFER EXPOSED EDGES OF CONCRETE 3/4" WHERE NOT SPECIFICALLY SHOWN OR NOTED ON STRUCTURAL OR ARCHITECTURAL DRAWINGS.
7. SEE CONCRETE REINFORCING NOTES SECTION, STANDARD DETAILS AND TABLES FOR ADDITIONAL REINFORCING AND LAYOUT REQUIREMENTS.
8. ALL FOOTINGS, FOUNDATIONS AND FRAMING MEMBERS SHALL BE CENTERED UNLESS NOTED OTHERWISE.
9. PROVIDE DOWEL BARS BETWEEN MEMBERS WITH STANDARD HOOKS TO SUPPORT MEMBER AND LAP SPLICED WITH PRIMARY REINFORCING; DOWELS SHALL BE SAME SIZE AND SPACED TO MATCH PRIMARY REINFORCING UNLESS NOTED OTHERWISE.
10. INSERTS, SLEEVES, OPENINGS, AND OTHER EMBEDDED ITEMS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE LOCATED AND VERIFIED BY THE CONTRACTOR; THOSE NOT SHOWN SHALL BE INSTALLED ONLY AFTER APPROVAL BY THE EOR.
11. CONTRACTOR TO LAY OUT AND SUBMIT LOCATION OF CONSTRUCTION JOINTS AND CONCRETE CONSTRUCTION FOR REVIEW AND APPROVAL. SEE STANDARD DETAILS FOR SLAB ON GRADE CONSTRUCTION, CUT JOINTS WITHIN 24 HOURS OF CONCRETE PLACEMENT, SPACED NOT MORE THAN 36 TIMES THE SLAB THICKNESS, AND AN ASPECT RATIO NOT EXCEEDING 1.5.
12. UNLESS SPECIFICALLY DETAILED OR SHOWN ON THE STRUCTURAL DRAWINGS, PENETRATIONS OR OPENINGS IN SLABS AND WALL SHALL:
    A. NOT EXCEED 12 INCHES IN ANY DIMENSION.
    B. NOT BE LOCATED WITHIN 6 INCHES FROM AN EDGE.
    C. NOT BE LOCATED WITHIN A BEAM OR COLUMN.
    D. NOT BE CLOSER THAN 10 TIMES THE SLAB THICKNESS FROM A CONCENTRATED LOAD EXCEEDING 2,000 LBS.
    E. WHEN PLACED IN GROUPS, SHALL BE PLACED WITH NO LESS THAN ONE PENETRATION OF OPENING DIAMETER CLEAR BETWEEN THEM.

CONCRETE REINFORCEMENT:

1. CONCRETE REINFORCEMENT DETAILING AND PLACEMENT SHALL CONFORM WITH REQUIREMENTS OF ACI 315 AND CRSI MANUAL.
2. SEE STANDARD DETAILS AND TABLES FOR ADDITIONAL INFORMATION RELATED TO STEEL REINFORCING COVER, LAPS, AND MISCELLANEOUS DETAILING.
3. REINFORCING STEEL SHALL BE TIED, ACCURATELY PLACED, AND SUPPORTED BY STANDARD ACCESSORIES. ACCESSORY LEGS EXPOSED TO VIEW SHALL BE STAINLESS STEEL.
4. REINFORCING STEEL AND EMBEDDED ITEMS SHALL BE LOCATED AND HELD IN PLACE PRIOR TO CONCRETE PLACEMENT; PLACEMENT OR PUSHING ("WET STICKING") INTO CONCRETE IS NOT ALLOWED.
5. REINFORCEMENT LAP SPLICES SHALL BE CLASS B PLUS 6" AT NON-CONTACT SLICES, UNLESS NOTED OTHERWISE, AND SPLICED AT LOCATIONS SHOWN OR NOTED WITHIN THE STRUCTURAL DOCUMENTS; EXCEPTION REINFORCEMENT NOTED AS "CONTINUOUS" MAY BE SPLICED AT LOCATIONS DETERMINED BY THE CONTRACTOR.
6. DO NOT WELD REINFORCING UNLESS SPECIFICALLY SHOWN ON PLANS OR WITH WRITTEN PERMISSION FROM THE EOR.

CAST-IN-PLACE CONCRETE FIELD QUALITY CONTROL:

1. TESTING AND INSPECTING:
    - CONTRACTOR SHALL ENGAGE A QUALIFIED TESTING AND INSPECTING AGENCY TO PERFORM FIELD TESTS AND INSPECTIONS AND PREPARE TEST REPORTS.
2. CONCRETE TESTS:
    - TESTING OF COMPOSITE SAMPLES OF FRESH CONCRETE OBTAINED ACCORDING TO ASTM C172 SHALL BE PERFORMED ACCORDING TO THE FOLLOWING REQUIREMENTS:
        A. TESTING FREQUENCY: OBTAIN ONE COMPOSITE SAMPLE FOR EACH DAY'S POUR OF EACH CONCRETE MIXTURE EXCEEDING 5 CU. YD. (4 CU. M), BUT LESS THAN 25 CU. YD. (19 CU. M), PLUS ONE SET FOR EACH ADDITIONAL 50 CU.YD. (38 CU. M) OR FRACTION THERE OF.
            a. WHEN FREQUENCY OF TESTING WILL PROVIDE FEWER THAN THREE COMPRESSIVE-STRENGTH TEST FOR EACH CONCRETE MIXTURE, TESTING SHALL BE CONDUCTED FROM AT LEAST THREE RANDOMLY SELECTED BATCHES OR FROM EACH BATCH IF FEWER THAN FIVE ARE USED.
        B. SLUMP: ASTM C143/C 143M; ONE TEST AT POINT OF PLACEMENT FOR EACH COMPOSITE SAMPLE, BUT NOT LESS THAN ONE TEST FOR EACH DAY'S POUR OF EACH CONCRETE MIXTURE. PERFORM ADDITIONAL TESTS WHEN CONCRETE CONSISTENCY APPEARS TO CHANGE.
        C. AIR CONTENT: ASTM C231, PRESSURE METHOD, FOR NORMAL-WEIGHT CONCRETE; ONE TEST FOR EACH COMPOSITE SAMPLE, BUT NOT LESS THAN ONE TEST FOR EACH DAY'S POUR OF EACH CONCRETE MIXTURE.
        D. CONCRETE TEMPERATURE: ASTM C1064/C 1064M; ONE TEST HOURLY WHEN AIR TEMPERATURE IS 40 DEG F (4.4 DEG C) AND BELOW AND WHEN 80 DEG F (27 DEG C) AND ABOVE, AND ONE TEST FOR EACH COMPOSITE SAMPLE.
        E. COMPRESSION TEST SPECIMENS: ASTM C31/C31M.
            a. CAST AND LABORATORY CURE TWO SETS (4 TOTAL) OF TWO STANDARD CYLINDER SPECIMENS FOR EACH COMPOSITE SAMPLE.
        F. COMPRESSIVE-STRENGTH TESTS: ASTM C39/C39M; TEST ONE SET OF TWO LABORATORY-CURED SPECIMENS AT 7 DAYS AND ONE SET OF TWO SPECIMENS AT 28 DAYS.
            a. A COMPRESSIVE-STRENGTH TEST SHALL BE THE AVERAGE COMPRESSIVE STRENGTH FROM A SET OF TWO SPECIMENS OBTAINED FORM SAME COMPOSITE SAMPLE AND TESTED AT AGE INDICATED.
        G. WHEN STRENGTH OF FIELD-CURED CYLINDERS IS LESS THAN 85 PERCENT OF COMPANION LABORATORY-CURED CYLINDERS, CONTRACTOR SHALL VALUATE OPERATIONS AND PROVIDE CORRECTIVE PROCEDURES FOR PROTECTING AND CURING IN-PLACE CONCRETE
        H. STRENGTH OF EACH CONCRETE MIXTURE WILL BE SATISFACTORY IF EVERY AVERAGE OF ANY THREE CONSECUTIVE COMPRESSIVE-STRENGTH TEST EQUALS OR EXCEEDS SPECIFIED COMPRESSIVE STRENGTH AND NO COMPRESSIVE-STRENGTH TEST VALUE FALLS BELOW SPECIFIED COMPRESSIVE STRENGTH BY MORE THAN 500 PSI (3.4 MPa).
3. TEST RESULTS SHALL BE REPORTED IN WRITING TO ENGINEER, CONCRETE MANUFACTURER, AND CONTRACTOR WITHIN 48 HOURS OF TESTING. REPORTS OF COMPRESSIVE-STRENGTH TESTS SHALL CONTAIN PROJECT IDENTIFICATION NAME AND NUMBER, DATE OF CONCRETE PLACEMENT, NAME OF CONCRETE TESTING AND INSPECTING AGENCY, LOCATION OF CONCRETE BATCH IN WORK. DESIGN COMPRESSIVE STRENGTH, AND TYPE OF BREAK FOR BOTH 7 AND 28 DAY TESTS.
4. NON DESTRUCTIVE TESTING:
    - IMPACT HAMMER, SONOSCOPE, OR OTHER NON DESTRUCTIVE DEVICE MAY BE PERMITTED BY ENGINEER BUT WILL NOT BE USED AS SOLE BASIS FOR AN APPROVAL OR REJECTION OF CONCRETE.
5. ADDITIONAL TESTS:
    - TESTING AND INSPECTING AGENCY SHALL MAKE ADDITIONAL TEST OF CONCRETE WHEN TEST RESULTS INDICATE THAT SLUMP, AIR ENTRAINMENT, COMPRESSIVE STRENGTH, OR OTHER REQUIREMENTS HAVE NOT BEEN MET, AS DIRECTED BY ENGINEER. TESTING AND INSPECTING AGENCY MAY CONDUCT TEST TO DETERMINE ADEQUACY OF CONCRETE BY CORED CYLINDERS COMPLYING WITH ASTM C42/C42M OR BY OTHER METHODS AS DIRECTED BY ENGINEER.
6. ADDITIONAL TESTING AND INSPECTING, AT CONTRACTOR'S EXPENSE, WILL BE PERFORMED TO DETERMINE COMPLIANCE OF REPLACED OR ADDITIONAL WORK WITH SPECIFIED REQUIREMENTS.
7. CORRECT DEFICIENCIES IN THE WORK THAT TEST REPORTS AND INSPECTIONS INDICATE DOES NOT COMPLY WITH THE CONTRACT DOCUMENTS.

POST INSTALLED ANCHORS:

1. POST INSTALLED ANCHORS SHALL ONLY BE USED WHERE OR WHEN SPECIFIED IN THE CONTRACT DOCUMENTS.
2. PRIOR APPROVAL FROM THE EOR IS REQUIRED BEFORE USING POST INSTALLED ANCHORS FOR MISSING OR MISPLACED CAST-IN ANCHORS, BOLTS, OR RODS.
3. NO STEEL REINFORCEMENT SHALL BE CUT TO INSTALL ANCHORS, LOCATE PRIOR TO DRILLING HOLES.
4. POST INSTALLED ANCHORS SHALL BE INSTALLED PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND MAINTAIN NECESSARY EMBEDMENT, HOLE PREPARATION, EDGE DISTANCE, AND SPACING.
5. INSPECTION AND TESTING SHALL BE PER THE GENERAL NOTES AND CHAPTER 17 OF THE IBC.
6. SUBSTITUTION FOR A DIFFERENT TYPE OF ANCHOR OR VENDOR IS NOT PERMITTED WITHOUT A PRIOR SUBSTITUTION REQUEST SUBMITTAL WITH JUSTIFICATION AND COMPARATIVE CAPACITY ANALYSIS FOR APPROVAL BY THE EOR.

WOOD FRAMING:

1. WOOD FRAMING AND CONSTRUCTION SHALL COMPLY WITH CONSTRUCTION DOCUMENTS, APA, AND/OR TPI STANDARD. GLULAM FABRICATOR SHALL BE AITC OR APA MEMBER AND FOLLOW APPEARANCE AND GRADE SPECIFICATIONS NOTED.
2. PROVIDE WOOD FRAMING FASTENING PER THE IBC FASTENING SCHEDULE, COMMON NAILS, UNLESS NOTED OTHERWISE OR RECOMMENDED BY ENGINEERED WOOD SUPPLIER. MULTI PLY MEMBERS SHALL BE FASTENED WITH (2) ROWS OF 16d NAILS AT 12" O/C; FOR MEMBERS DEEPER THAN 12", PROVIDE (3) ROWS.
3. FASTENERS TO BE STAGGERED TO PREVENT SPLITTING OF WOOD FRAMING. DRILLED BOLT HOLES SHALL BE A MINIMUM OF 1/32" TO A MAXIMUM OF 1/16" LARGER THAN THE BOLT DIAMETER. CUT WASHERS SHALL BE USED WHERE BOLT HEADS, NUTS, AND LAG SCREW HEADS BEAR ON WOOD. DO NOT NOTCH OR DRILL STRUCTURAL WOOD FRAMING EXCEPT AS ALLOWED BY THE IBC.
4. WOOD NAILERS SHALL BE BOLTED TO STEEL FRAMING WITH (2) ROWS OF 1/2" DIAMETER A307 BOLTS SPACED 32" O/C, STAGGERED ROWS BY ONE HALF SPACING.
5. TOP PLATES SHALL BE STAGGERED 48 INCHES MINIMUM AND FASTENED PLIES WITH (16) 16d COMMON NAILS EACH SIDE OF SPLICE
6. SILL PLATES SHALL BE ANCHORED TO FOUNDATIONS WITH 1/2" DIAMETER BY 6" EMBEDMENT GALVANIZED ANCHOR RODS. PROVIDE A MINIMUM 3"x3"x 0.229" PLATE WASHER ON ALL SILL PLATE ANCHOR BOLTS. THERE SHALL BE AT LEAST (2) ANCHOR BOLTS PER PIECE SPACED NOT MORE THAN 4 FEET APART , WITH (1) BOLT LOCATED NOT MORE THAN 12" OR LESS THAN 4" FROM EACH END OF EACH PIECE. (REVIEW EMBED & WASHER SIZES)
7. WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED AND PROTECTED, OR NATURALLY RESISTANT TO DECAY
8. BRACE INTERIOR NON-BEARING WALLS TO BLOCKING OR FRAMING ABOVE PROVIDING CLIPS ALLOWING FOR VERTICAL MOVEMENT OF THE STRUCTURE.
9. PROVIDE 2x FULL HEIGHT JAMB AND KING STUDS EACH SIDE OF WALL OPENINGS EQUAL TO THE NUMBER OF HEADER PLIES UNLESS OTHERWISE NOTED.
10. PROVIDE 2x FULL HEIGHT JAMB STUDS DIRECTLY BELOW GIRDER TRUSS BEARING IN ADDITION TO SOLID BLOCKING AT JOIST/TRUSS CAVITIES. NUMBER OF STUDS SHALL EQUAL THE NUMBER OF GIRDER PLIES, UNLESS OTHERWISE NOTED
11. PROVIDE SOLID BLOCKING EQUAL IN SIZE/NUMBER/WIDTH OF JAMBS AT JOIST/TRUSS CAVITIES BELOW BEAM/HEADER/GIRDER BEARING LOCATIONS.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF PANELIZED WALL CONSTRICTION. EOR TO REVIEW SUBMITTED FRAMING FOR GENERAL CONFORMANCE AND DESIGN INTENT, NOT FOR ACTUAL ENGINEERING OF PANEL OR COMPONENTS.
13. LAMINATED WOOD SUPPLIER SHALL PROVIDE ALL HANGERS, HARDWARE, AND ACCESSORIES NECESSARY FOR CONNECTIONS ASSOCIATED WITH LAMINATED WOOD MEMBERS.
14. CONTRACTOR SHALL PROVIDE COORDINATION BETWEEN LAMINATED WOOD AND STRUCTURAL STEEL SUPPLIER FOR ALL CONNECTION DETAILS PRIOR TO FABRICATION.
15. WOOD TO STEEL CONNECTION, HANGERS, AND HARDWARE REQUIRED TO COMPLETE THE INSTALLATION OF LAMINATED WOOD SHALL BE FURNISHED BY THE STRUCTURAL STEEL SUPPLIER.
16. SHEATHING AND/OR BRACING SHALL BE INSTALLED PRIOR TO CONSTRUCTION OF THE FLOOR OR ROOF ABOVE.
17. SEE SHEAR WALL SCHEDULE AND DETAILS FOR ADDITIONAL ANCHOR ROD, HOLDOWN, AND OTHER ANCHORAGE/FASTENING REQUIREMENTS.
18. SHEATHING SHEET SIZES SHALL BE 4'-0"x8'-0" (MIN) EXCEPT AT BOUNDARIES. INSTALL SHEETS WITH THE LONG DIMENSION OR STRENGTH AXIS OF THE PANEL PERPENDICULAR TO SUPPORTS AND CONTINUOUS OVER TWO OR MORE SPANS. STAGGER END JOINTS OF ADJACENT SHEETS.
19. ROOF DIAPHRAGM (UNBLOCKED) USE 15/32" SHEATHING WITH A 32/16 SPAN RATING.
20. FASTEN SHEATHING TO SUPPORTING MEMBERS AS FOLLOWS:
    - ROOF SHEATHING (UNBLOCKED): 8d COMMON NAILS AT 6" O/C AT SUPPORTED PANEL EDGES AND AT DIAPHRAGM BOUNDARIES AND 12" O/C AT INTERMEDIATE SUPPORTS.
    - EXTERIOR WALL SHEATHING (UNBLOCKED): 8d COMMON NAILS AT 6" O/C AT PANEL EDGES AND 12" O/C AT INTERMEDIATE SUPPORTS.
    - SHEARWALL SHEATHING: SEE SHEARWALL SCHEDULE

FABRICATED WOOD TRUSSES:

1. WOOD TRUSSES SHALL BE DESIGNED FOR THE LOADS INDICATED ON THE PLAN BY THE TRUSS FABRICATOR AND IN ACCORDANCE WITH THE TPI AND NFPA FOR METAL PLATE CONNECTED WOOD TRUSSES.
2. WOOD TRUSSES ARE SHOWN AS A GENERAL LAYOUT ONLY, EXCEPT GIRDER TRUSSES, WITH FINAL LAYOUT AS DETERMINED BY THE TRUSS FABRICATOR.
3. GIRDER TRUSS LOCATIONS SHOWN SHALL REMAIN UNLESS A CHANGE REQUEST IS REVIEWED AND APPROVED BY THE EOR.
4. WOOD TRUSSES AND GIRDERS SHALL BE FASTENED TO SUPPORTING MEMBERS W/ (2) 16d COMMON NAILS (MIN) AND WITH METAL CLIPS AS NECESSARY. ROOF TRUSSES SHALL ALSO BE FASTENED WITH SIMPSON H2.5T HURRICANE TIES UNLESS OTHERWISE NOTED.
5. WOOD TRUSS TO GIRDER AND TRUSS TO TRUSS CONNECTIONS SHALL BE BY THE WOOD TRUSS FABRICATOR.
6. WOOD TRUSS DESIGNER SHALL PROVIDE CONTINUOUS RIBBONS, SOLID BLOCKING, OR BLOCKING PANELS BETWEEN TRUSSES AT BEARING, HIP, AND RIDGE LINES FOR FASTENING OF DECK/SHEATHING AS REQUIRED BY TRUSS DESIGN UNLESS NOTED OTHERWISE.
7. CONTRACTOR SHALL FOLLOW GUIDELINES OF THE BCSI AND TPI FOR SETTING, ERECTION, AND BRACING (TEMPORARY AND PERMANENT) OF WOOD TRUSSES. BRIDGING OR BRACING SHOWN ON THESE DRAWINGS IS SCHEMATIC.
8. CONTRACTOR TO COORDINATE LOCATION OF MECHANICAL DUCTWORK AND OPENINGS WITH WOOD TRUSS FABRICATOR.
9. WOOD TRUSS DEFLECTION SHALL MEET THE MINIMUM REQUIREMENTS AS FOLLOWS: ROOF L/360 LIVE LOAD AND L/240 TOTAL LOAD.
10. WOOD TRUSS DESIGNER SHALL DESIGN TOP AND BOTTOM CHORDS FOR 10 PSF DEAD LOAD AT ROOF TRUSSES. UNLESS A GREATER LOAD IS SHOWN WITHIN THE CONTRACT DOCUMENTS.

EAPC
Architecture | Engineering
Interior Design | Industrial
TELEPHONE 701.609.5290
313 Main Street, Suite 200, Williston ND 58801
www.eapc.net

CONSULTANTS

CLIENT
WATFORD CITY PARK DISTRICT

PROJECT DESCRIPTION
PARK SHOP BUILDING

CITY WATFORD CITY
STATE ND

ISSUE DATES

MARK	DESCRIPTION	DATE
CD	RE-BID	05/20/2026

PROJECT NO: 20262250
DRAWN BY: JEB
CHECKED BY: CRM

STAMP

REGISTERED PROFESSIONAL ENGINEER
JEREMY DAHMEN PE-40215
DATE 05/20/2026
NORTH DAKOTA

DRAWING TITLE
STRUCTURAL GENERAL NOTES

S001

Revit Version: 2025
Plot Date: 5/21/2026 10:09:52 AM

DESIGN CRITERIA AND LOADS
(IN ADDITION TO THOSE INDICATED ON PLANS & DETAILS)

OCCUPANCY	BUILDING RISK CATEGORY		II
DEAD LOADS	(SUPERIMPOSED)		
	ROOF		20 PSF (10 TC/10 BC)
LIVE LOADS			
	ROOF (CONSTRUCTION)		20 PSF
SNOW LOAD			
	GROUND SNOW LOAD	Pg	61 PSF
	SNOW EXPOSURE FACTOR	Ce	1.0
	THERMAL FACTOR (VENTILATED)	Ct	1.18
	FLAT ROOF SNOW LOAD (VENTILATED)	Pf	51 PSF
	SLOPE FACTOR	Cs	1.00
	SLOPED ROOF SNOW LOAD	Ps	51 PSF
	UNBALANCED SNOW		SEE PLAN
WIND DESIGN	(STRENGTH LEVEL UON)		
MAIN WIND FORCE RESISTING SYSTEM	BASIC WIND SPEED	V	115 MPH
	EXPOSURE CATEGORY		C
	BUILDING TYPE		PARTIALLY ENCLOSED
	INTERNAL PRESSURE COEFFICIENT	GCpi	+/-0.55
	NET UPLIFT		17 PSF

COMPONENTS AND CLADDING DESIGN PRESSURE

		Ae≤ 10 SQFT	Ae≥ 500 SQFT
	ZONE 1	27/-60 PSF	20/-24 PSF
	ZONE 2	27/-76 PSF	20/-36 PSF
	ZONE 3	27/-97 PSF	20/-55 PSF
	ZONE 4	36/-38 PSF	29/-31 PSF
	ZONE 5	36/-45 PSF	29/-31 PSF
	ZONE 1 OH	16/-70 PSF	16/-28 PSF
	ZONE 2 OH	16/-86 PSF	16/-40 PSF
	ZONE 3 OH	16/-107 PSF	16/-58 PSF
	a = 4'-0"		
	Ae = AFFECTIVE AREA FOR COMPONENTS AND CLADDING		

SEISMIC DESIGN			
	SEISMIC DESIGN CATEGORY		A
	SEISMIC FORCE RESISTING SYSTEM		II
	IMPORTANCE FACTOR	Ie	1.0
	SITE CLASS		D
	SPECTRAL RESPONSE ACCELERATION	Ss	0.074g
		S1	0.019g
	SPECTRAL DESIGN RESPONSE COEFFICIENT	Sds	0.065g
		Sd1	0.027g
	SEISMIC RESPONSE COEFFICIENT	Cs	0.01
	RESPONSE MODIFICATION FACTOR	R	6.5
	ANALYSIS PROCEDURE USED		EQUIVALENT LATERAL/FORCE
	DESIGN BASE SHEAR(S)	V	0.05k

GEOTECHNICAL		
	ALLOWABLE SOIL BEARING PRESSURE (ASSUMED)	1500 PSF

MATERIAL STRENGTHS

CONCRETE		
	28 DAY COMPRESSIVE STRENGTH	f'c
	FOUNDATION WALLS/ COLUMNS/ SLABS	4,000 PSI
	PROVIDE 6% (+/- 1.5%) ENTRAINED AIR IF EXTERIOR CONCRETE	
REINFORCING STEEL		
	REINFORCING BARS	ASTM A615 GR 60, DEFORMED
STRUCTURAL STEEL		
FASTENERS	HIGH STRENGTH BOLTS	ASTM A325-N
	ANCHOR RODS	ASTM F-1554, GRADE 36
	THREADED RODS	ASTM A36
	COMMON BOLTS	ASTM A307
WELDS	WELD ELECTRODES	E70XX
WOOD		
SAWN LUMBER	BEAMS AND STRINGERS	SPF No.1/No.2 GRADE
	STUD WALLS (BEARING)	SPF No. 2 GRADE
	TOP AND BOTTOM PLATE (BEARING)	SPF SSPF No. 2 GRADE, TREATED (WHERE IN CONTACT W/ CONCRETE OR STEEL)
	MISCELLANEOUS FRAMING AND BLOCKING	SPF STUD GRADE
	POSTS	SPF No.1/No.2 GRADE
GANG-LAM LVL	BEAMS AND STRINGERS	LEVEL TRUSS JOIST, MICROLAM LVL 1.9E
SHEATHING	ROOF	15/32" APA RATED, EXPOSURE 1, 32/16 SPAN RATING
	WALL (SEE SHEAR WALL SCHEDULE FOR ADDITIONAL REQUIREMENTS)	GRADE: STRUCTURAL I
SILL PLATE	ANCHORS	1/2"Ø SIMPSON TITEN HD SCREW ANCHORS (GALV)

POST INSTALLED ANCHORS**		
ADHESIVE ANCHORS	SIMPSON AT-3G SIMPSON TITEN HD	ANCHORAGE TO CONCRETE
CONCRETE ANCHORS	SIMPSON AT-3G SIMPSON TITEN HD	ANCHORAGE TO CONCRETE & MASONRY
	**OR APPROVED EQUALS	

CAST IN PLACE CONCRETE (NON-PRESTRESSED) COVER

ACI 318 - STRUCTURAL CONCRETE

UNLESS NOTED OTHERWISE ON DRAWINGS		COVER (INCHES)
CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH		3
EXPOSED TO EARTH OR WEATHER		
	#6 THROUGH #18 BARS	2
	#5 AND SMALLER	1 1/2
NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND		
SLABS, WALLS, JOISTS	#14 & #18 BARS	1 1/2
	#11 BARS AND SMALLER	3/4
BEAMS, COLUMNS	PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS	1 1/2
	SLAB ON GRADE / SLAB ON METAL DECK	CENTERED

CONCRETE REINFORCING STEEL SPLICE LENGTHS STANDARD NON-COATED BARS

CONCRETE STRENGTH	TYPE #1 SPLICE CLASS A		TYPE #2 SPLICE CLASS B		TYPE #3 SPLICE CLASS B		TYPE #4 SPLICE COMPRESSION
F'c	#6 AND SMALLER	#7 AND LARGER	#6 AND SMALLER	#7 AND LARGER	#6 AND SMALLER	#7 AND LARGER	#4 AND LARGER
3000 PSI	44 Db	55 Db	57 Db	71 Db	85 Db	107 Db	30 Db
3500 PSI	41 Db	51 Db	53 Db	66 Db	79 Db	99 Db	30 Db
4000 PSI	38 Db	47 Db	49 Db	62 Db	74 Db	92 Db	30 Db
5000 PSI	34 Db	42 Db	44 Db	55 Db	66 Db	83 Db	30 Db
6000 PSI	31 Db	38 Db	40 Db	50 Db	60 Db	76 Db	30 Db

Db = BAR DIAMETER

NOTES:

1. MINIMUM LAP: 18" FOR TYPE #1 THRU TYPE #3, 12" FOR TYPE #4 SPLICES
2. REQUIRED SPLICE LENGTH = LISTED SPLICE LENGTH X ADJUSTMENT FACTORS
   ADJUSTMENT FACTORS = 1.0 IF NONE BELOW APPLY
   A. FOR HORIZONTAL REINFORCING W/ MORE THAN 12" OF FRESH CONCRETE PLACED
   B. FOR Fy OTHER THAN 60 KSI - ADJUSTMENT FACTOR = Fy (USED) / 60
   C. FOR LIGHT WEIGHT CONCRETE - ADJUSTMENT FACTOR = 1.3
   D. TYPICAL EPOXY COATED REINFORCING - ADJUSTMENT FACTOR = 1.2
   E. EPOXY COATED REINFORCING W/ COVER LESS THAN Db OR CLEAR SPACING LESS THAN 6 Db - ADJUSTMENT FACTOR = 1.5
3. ALL ADJUSTMENT FACTORS THAT APPLY SHALL BE USED TO CALCULATE REQUIRED SPLICE LENGTH

CAST IN PLACE CONCRETE (NON-PRESTRESSED) COVER

ACI 350 - ENVIRONMENTAL STRUCTURES

UNLESS NOTED OTHERWISE ON DRAWINGS		COVER...
CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH		3
EXPOSED TO EARTH, LIQUID, WEATHER, OR BEARING ON WORK MAT OR SLABS SUPPORTING EARTH COVER		
SLABS, JOISTS		2
BEAMS, COLUMNS	STIRRUPS, SPIRALS, AND TIES	2
	PRIMARY REINFORCEMENT	2 1/2
WALLS		2
FOOTINGS, BASE SLABS	FORMED SURFACES	2
	TOP OF FOOTINGS AND BASE SLABS	2
CONDITIONS NOT COVERED ABOVE		
SLABS, JOISTS	#14 & #18 BARS	3/4
	#11 BARS AND SMALLER	1 1/2
BEAMS, COLUMNS	STIRRUPS, SPIRALS, AND TIES	1 1/2
	PRIMARY REINFORCEMENT	2
WALLS	#14 & #18 BARS	1 1/2
	#11 BARS AND SMALLER	3/4
	SLAB ON GRADE\ SLAB ON METAL DECK	CENTERED

EAPC
Architecture | Engineering
Interior Design | Industrial
TELEPHONE 701.609.5290
313 Main Street, Suite 200, Williston ND 58801
www.eapc.net

CONSULTANTS

CLIENT
WATFORD CITY PARK DISTRICT

PROJECT DESCRIPTION
PARK SHOP BUILDING

CITY WATFORD CITY
STATE ND

ISSUE DATES

MARK	DESCRIPTION	DATE
CD	RE-BID	05/20/2026

PROJECT NO: 20262250
DRAWN BY: JEB
CHECKED BY: CRM

STAMP

REGISTERED PROFESSIONAL ENGINEER
JEREMY DAHMEN
PE-40215
DATE 05/20/2026
NORTH DAKOTA

DRAWING TITLE
STRUCTURAL LOADS & MATERIAL NOTE TABLES

S002

Revit Version: 2025
Plot Date: 5/21/2026 10:00:52 AM

REQUIRED SPECIAL INSPECTION OF CONCRETE CONSTRUCTION [1]

VERIFICATION & INSPECTION	CONTINUOUS	PERIODIC
1. INSPECTION OF REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT	--	X
2. REINFORCING BAR WELDING:	--	--
A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706	--	X
B. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"; AND	--	X
C. INSPECT ALL OTHER WELDS	X	--
3. INSPECTION OF ANCHORS CAST INTO CONCRETE	--	X
4. INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS	--	X
A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARD INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS	X	--
B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED ABOVE	--	X
5. VERIFY USE OF REQUIRED DESIGN MIX	--	X
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	X	--
7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	X	--
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	--	X
9. INSPECTION OF PRESTRESSED CONCRETE FOR:	--	--
A. APPLICATION OF PRESTRESSING FORCED, AND	N/A	--
B. GROUTING OF BONDED PRESTRESSING	N/A	--
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS	--	N/A
11. VERIFICATION IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS	--	N/A
12. INSPECTION OF FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS PRIOR TO CONCRETE POUR	--	X
NOTE 1: ALL SPECIAL INSPECTIONS IN ACCORDANCE WITH CURRENT IBC AND ACI STANDARDS		

REQUIRED SPECIAL INSPECTION OF SOIL [1]

VERIFICATION & INSPECTION	CONTINUOUS	PERIODIC
1. VERIFY MATERIAL BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE DESIGN BEARING CAPACITY	--	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL	--	X
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS	--	X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL	X	--
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY	--	X
NOTE 1: ALL SPECIAL INSPECTIONS IN ACCORDANCE WITH CURRENT IBC		

REQUIRED SPECIAL INSPECTION AND TESTS FOR WIND RESISTANCE ON WIND-RESISTING COMPONENTS [1]

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1. FASTENING OF ROOF COVERING, ROOF DECK, ROOF FRAMING CONNECTIONS, EXTERIOR WALL COVERING AND WALL CONNECTIONS TO ROOF AND FLOOR DIAPHRAGM AND FRAMING	--	X
NOTE 1: ALL SPECIAL INSPECTIONS IN ACCORDANCE WITH CURRENT IBC AND ACI STANDARDS		

REQUIRED SPECIAL INSPECTION AND TESTS OF WOOD CONSTRUCTION [1]

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1. SPECIAL INSPECTION OF PREFABRICATED WOOD STRUCTURAL ELEMENTS AND ASSEMBLIES SHALL BE IN ACCORDANCE WITH SECTION 1704.2.5 OF THE IBC 2018	--	X
2. OWNER WILL ENGAGE A QUALIFIED SPECIAL INSPECTOR TO VERIFY TEMPORARY INSTALLATION RESTRAINT/BRACING AND THE PERMANENT INDIVIDUAL TRUSS MEMBER RESTRAINT/BRACING INSTALLED IN ACCORDANCE WITH THE APPROVED TRUSS SUBMITTAL PACKAGE	--	X
NOTE 1: ALL SPECIAL INSPECTIONS IN ACCORDANCE WITH CURRENT IBC AND ACI STANDARDS		

REQUIRED SPECIAL INSPECTION AND TESTS FOR WIND RESISTANCE ON STRUCTURAL WOOD [1]

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1. DURING FIELD GLUING OPERATIONS OF THE MAIN WIND FORCE-RESISTING SYSTEM	X	--
2. FOR NAILING, BOLTING, ANCHORING AND OTHER FASTENING OF ELEMENTS OF THE MAIN WIND FORCE-RESISTING SYSTEM. INCLUDING SHEAR WALLS, WOOD DIAPHRAGMS, DRAG STRUTS, BRACES AND HOLDDOWNS.	--	X
NOTE 1: ALL SPECIAL INSPECTIONS IN ACCORDANCE WITH CURRENT IBC AND ACI STANDARDS		

A	
AB	ANCHOR BOLT
ADH	ADHESIVE
ADJC	ADJACENT
AFF	ABOVE FINISHED FLOOR
AL	ALUMINUM
ALT	ALTERNATE
APPROX	APPROXIMATE
B	
B/F	BOTH FACES
BBE	BEAM BEARING ELEVATION
BFE	BOTTOM OF FOOTING
BLDG	BUILDING
BLK(G)	BLOCK(ING)
BM	BEAM
BP	BASE PLATE
BRDG	BRIDG(E) (ING)
BRG	BEARING
BRK	BRICK
BTM	BOTTOM
BTOB	BACK-TO-BACK
C	
C	AMERICAN STANDARD CHANNEL
C/C	CENTER TO CENTER
CAP	CAPACITY
CF	CUBIC (FOOT) (FEET)
CHAM	CHAMFER
CIP	CAST-IN-PLACE
CJ	CONTROL/CONSTRUCTION JOINT
CJP	COMPLETE JOINT PENETRATION
CL	CENTERLINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COMP	COMPOSITE
CONC	CONCRETE
CONN	CONNECT(ION)
CONST	CONSTRUCTION
CONT	CONTINU(E) (OUS) (ATION)
CONTR	CONTRACTOR
COORD	COORDINATE
D	
DBE	DECK BEARING ELEVATION
DBL	DOUBLE
DE	DECK EDGE
DETL	DETAIL
DHP	DRILLED HELICAL PILE
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DL	DEAD LOAD
DR	DOOR
DT	DOUBLE TEE/DRAIN TILE
DWG(S)	DRAWING(S)
DWL	DOWEL (REBAR)
E	
EA	EACH
EF	EACH FACE
EJ	EXPANSION JOINT
EL	ELEVATION
EOR	ENGINEER OF RECORD
EQ	EQUAL
EQP	EQUIPMENT
EW	EACH WAY
EX	EXISTING
EXP	EXPOSED/EXPANSION
EXT	EXTERIOR
F	
FB	FACE BRICK
FD	FLOOR DRAIN
FFE	FINISHED FLOOR ELEVATION
FIN	FINISH(ED)
FNDN/ FDN	FOUNDATION
FS	FAR SIDE
FTG	FOOTING

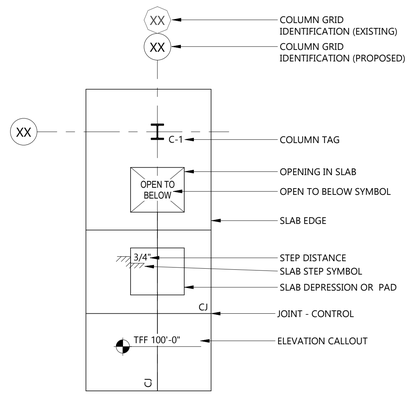
G	
GA	GAUGE
GALV	GALVANIZED
GLB	GLUE-LAMINATED BEAM
GR	GRADE
H	
HC	HOLLOW CORE
HEX	HEXAGONAL
HORIZ	HORIZONTAL
HSS	HOLLOW STRUCTURAL SECTION
HWS	HEADED WELDED STUD
I	
I/D	INSIDE DIAMETER
I/F	INSIDE FACE
INFO	INFORMATION
INS	INSULATION
J	
JBE	JOIST BEARING ELEVATION
JST	JOIST
JT	JOINT
K	
k	KIP
KCJ	KEYED CONTROL JOINT
KLF	KIP PER LINEAR FOOT
KO	KNOCK OUT
KSF	KIP PER SQUARE FOOT
L	
L	ANGLE
LB	POUND
LIN	LINEAR
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONG	LONGITUDINAL(LY)
LTL	LINTEL
LW	LIGHT WEIGHT
M	
MAX	MAXIMUM
MC	MISCELLANEOUS CHANNEL
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MTL	METAL
N	
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NS	NEAR SIDE
NSG	NON-SHRINK GROUT
NTS	NOT TO SCALE
NW	NORMAL WEIGHT
O	
O/C	ON CENTER
O/D	OUTSIDE DIAMETER
O/F	OUTSIDE FACE
OH	OVERHEAD
OPG	OPENING
OPP	OPPOSITE
P	
PC	PRECAST
PJP	PARTIAL JOINT PENETRATION
PL	PLATE
PLF	POUNDS PER LINEAL FOOT
PLWD	PLYWOOD
PNL	PANEL
PROJ	PROJECT(ION) (OR)
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POST TENSION(ED) (ING)

Q	
QTY	QUANTITY
R	
R/RAD	RADIUS
RD	ROOF DRAIN
REBAR	REINFORCING BAR
REF	REFER(ENCE)
REINF	REINFORC(E) (ED) (ING) (EMENT)
REM	REMOVABLE
REQD	REQUIRED
RO	ROUGH OPENING
S	
S	SHAPE
SC	SOLID CORE
SCHED	SCHEDULE
SF	SQUARE FOOT
SIM	SIMILAR
SL	SNOW LOAD
SLV	SLEEVE
SOG	SLAB-ON-GRADE
SPEC(S)	SPECIFICATION(S)
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STIF	STIFFENER
STL	STEEL
STRUCT	STRUCTUR(E) (AL)
SYM	SYMMETR(Y) (ICAL)
T	
T&B	TOP AND BOTTOM
TBE	TOP OF BEAM ELEVATION
TCE	TOP OF COLUMN ELEVATION
TDE	TOP OF DECK ELEVATION
TEMP	TEMPERATURE/TEMPORARY
TFE	TOP OF FOOTING ELEVATION
TFF	TOP OF FINISHED FLOOR
TGE	TOP OF GRATING ELEVATION
TJE	TOP OF JOIST ELEVATION
TLE	TOP OF LEDGE ELEVATION
TME	TOP OF MASONRY ELEVATION
TO	TOP OF
TPE	TOP OF PIER ELEVATION
TRANS	TRANSVERSE
TSE	TOP OF SLAB ELEVATION
TWE	TOP OF WALL ELEVATION
TYP	TYPICAL
U	
UNO	UNLESS NOTED OTHERWISE
UON	UNLESS OTHERWISE NOTED
V	
VAR	VARIES
VB	VAPOR BARRIER
VERT	VERTICAL
VIF	VERIFY IN FIELD
W	
W	WIDE FLANGE SHAPE
W/	WITH
W/O	WITHOUT
WD	WOOD
WL	WIND LOAD
WP	WORK(ING) POINT
WT	WEIGHT/STRUCTURAL TEE
WWF	WELDED WIRE FABRIC
WWM	WELDED WIRE MESH

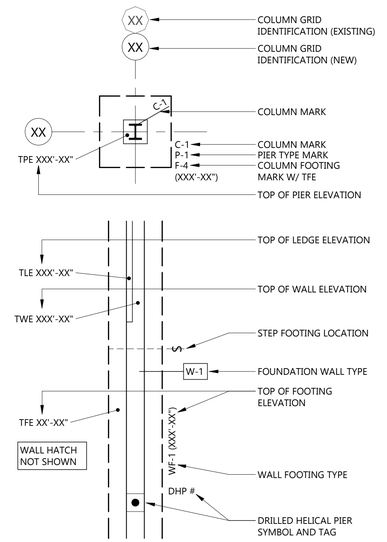
SPECIAL SYMBOLS

#	POUND
/	PER
@	AT
∟	ANGLE
°	DEGREE
Ø	DIAMETER
℄	CENTERLINE

STRUCTURAL SLAB LEGEND



FOUNDATION LEGEND



EAPC
Architecture | Engineering
Interior Design | Industrial
TELEPHONE 701.609.5290
313 Main Street, Suite 200, Williston ND 58801
www.eapc.net

CONSULTANTS

CLIENT
WATFORD CITY PARK DISTRICT

PROJECT DESCRIPTION
PARK SHOP BUILDING

CITY WATFORD CITY
STATE ND

ISSUE DATES

MARK	DESCRIPTION	DATE
CD	RE-BID	05/20/2026

PROJECT NO: 20262250
DRAWN BY: JEB
CHECKED BY: CRM

STAMP

REGISTERED PROFESSIONAL ENGINEER
JEREMY DAHMEN PE-40215
DATE 05/20/2026
NORTH DAKOTA

DRAWING TITLE
SPECIAL INSPECTION TABLES, STRUCTURAL LEGENDS, SCHEDULES, AND ABBREVIATIONS

S003

Revit Version: 2025
Print Date: 05/20/2026 10:00:53 AM

CONTINUOUS FOOTING SCHEDULE

MARK	FOOTING SIZE		REINFORCING		REMARKS
	WIDTH	THICKNESS	LONGITUDINAL	TRANSVERSE	
WF-1	1'-4"	12"	(2) #5 CONT	NA	
WF-2	2'-6"	12"	(3) #5 CONT	NA	

FOUNDATION WALL SCHEDULE

MARK	WIDTH	MATERIAL	REINFORCING		REMARKS
			VERTICAL	HORIZONTAL	
W-1	6"	CONC	#5 @ 18" O/C CENTERED	#5 @ 12" O/C CENTERED	
W-2	8"	CONC	#5 @ 18" O/C CENTERED	#5 @ 12" O/C CENTERED	

KEYNOTE LEGEND:

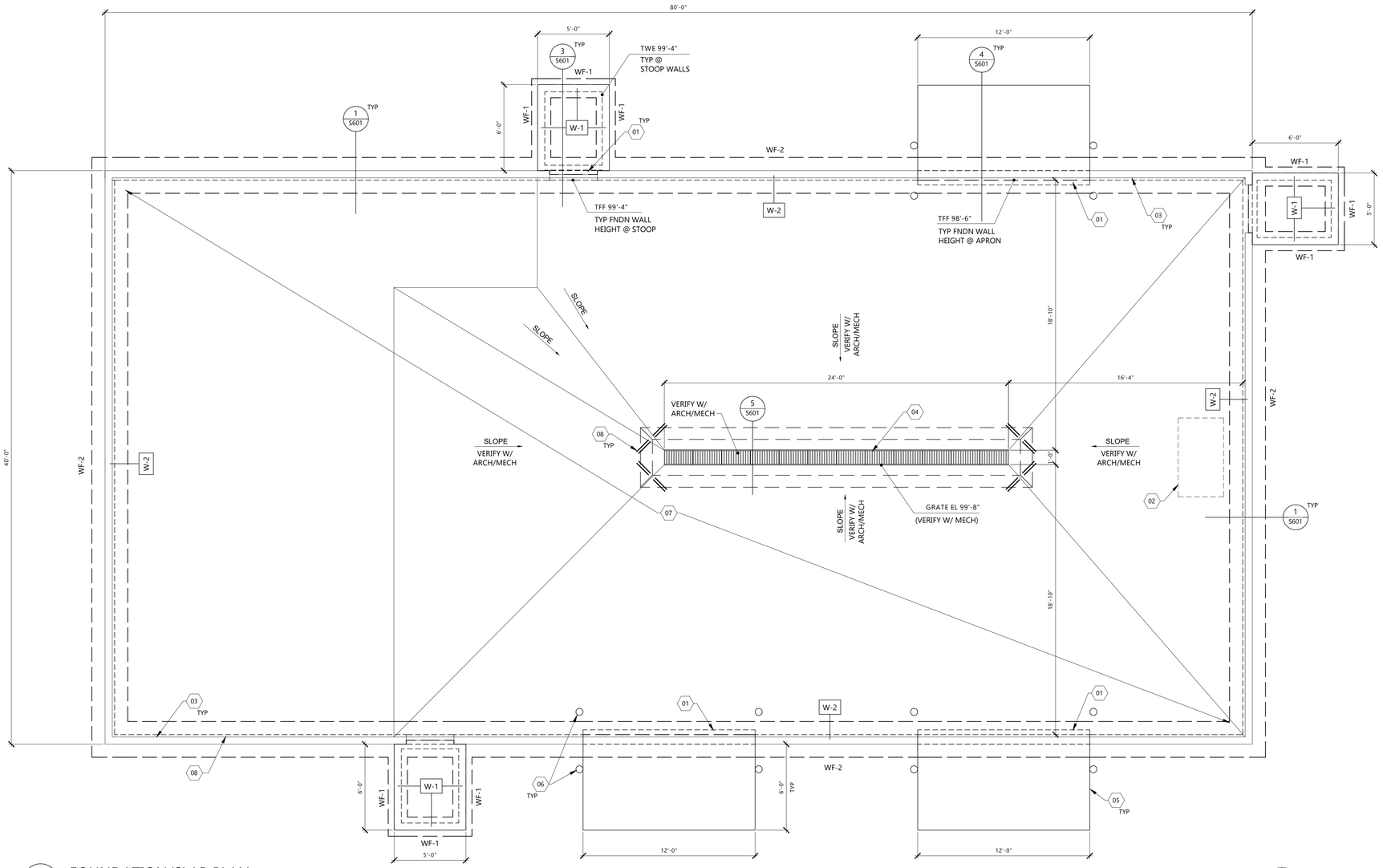
< < < INDICATES KEYNOTE ON PLAN

01	THICKENED FOUNDATION WALL 4" WITHIN STOOP FOR SLAB BEARING, TYP
02	SAND/OIL INTERCEPTOR -SEE MECH
03	INSIDE LEDGE FLUSH WITH STUD FACE, TYP -SEE 1/S601
04	TRENCH DRAIN, COORDINATE SLOPE OF SLAB AND LOCATION OF GRATE ELEVATION W/ ARCH & MECH
05	CONCRETE APRON @ OVERHEAD DOORS. THICKEN FOUNDATION WALL 4", TYP -SEE 4/S601
06	BOLLARD -SEE 7/S601 (INSIDE BUILDING) CIVIL - OUTSIDE BUILDING
07	6" THICK CONCRETE SLAB ON GRADE OVER 6" COMPACTED DRAINAGE COURSE OVER 10 MIL VAPOR BARRIER, REINFORCE SLAB W/ #4 @ 12" O/C EACH WAY, CENTERED IN SLAB
08	(2) #3 x 3'-0" BARS CENTERED IN SLAB @ EACH CORNER OF TRENCH DRAIN.

GENERAL NOTES

1. COORDINATE FINAL DOOR AND STOOP LOCATIONS W/ ARCH
2. AT FLOOR/TRENCH DRAIN, CONTRACTOR SHALL SLOPE FLOOR TOWARDS DRAIN. COORDINATE W/ MECH AND ARCH DRAWINGS FOR LOCATIONS

TFF = 100'-0" (UON)
TWE = 100'-4" (UON)
TFE = 96'-0" (UON)
TLE = 99'-6" (UON)



1 S201 FOUNDATION/SLAB PLAN
1/4" = 1'-0"

N

EAPC

Architecture	Engineering
Interior Design	Industrial

TELEPHONE 701.609.5290
313 Main Street, Suite 200, Williston ND 58801
www.eapc.net

CONSULTANTS

CLIENT
WATFORD CITY PARK DISTRICT

PROJECT DESCRIPTION
PARK SHOP BUILDING

CITY WATFORD CITY
STATE ND

ISSUE DATES

MARK	DESCRIPTION	DATE
CD	RE-BID	05/20/2026

PROJECT NO: 20262250
DRAWN BY: JEB
CHECKED BY: CRM

STAMP

REGISTERED PROFESSIONAL ENGINEER
JEREMY DAHMEN
PE-40215
DATE 05/20/2026
NORTH DAKOTA

DRAWING TITLE
FOUNDATION/SLAB PLAN

S201

Revit Version: 2025
Plot Date: 5/21/2026 10:09:53 AM

WOOD HEADER SCHEDULE

MARK	SIZE	MATERIAL	JAMB STUDS AT BEARING	JAMB STUDS FULL HEIGHT	REMARKS
H-1	(2) 2 x 10	SPF No. 1/No. 2	2	2	SEE 2/S701
H-2	(3) 1 3/4" x 11 7/8"	LVL	3	3	SEE 5/S701

NOTES:
1. FASTEN JAMB STUDS TOGETHER WITH (2) ROWS OF 10d NAILS @ 8" O/C.
2. PROVIDE SIMPSON ECCQ OR EQ. AT BEARING ENDS OF H-2 TO BEARING STUDS AND SIMPSON HDU5 W/ 5/8" THREADED ROD SET 6" INTO FOUNDATION WALL W/ SIMPSON AT-3G AT BEARING STUDS TO FOUNDATION.

KEYNOTE LEGEND:

< < < INDICATES KEYNOTE ON PLAN

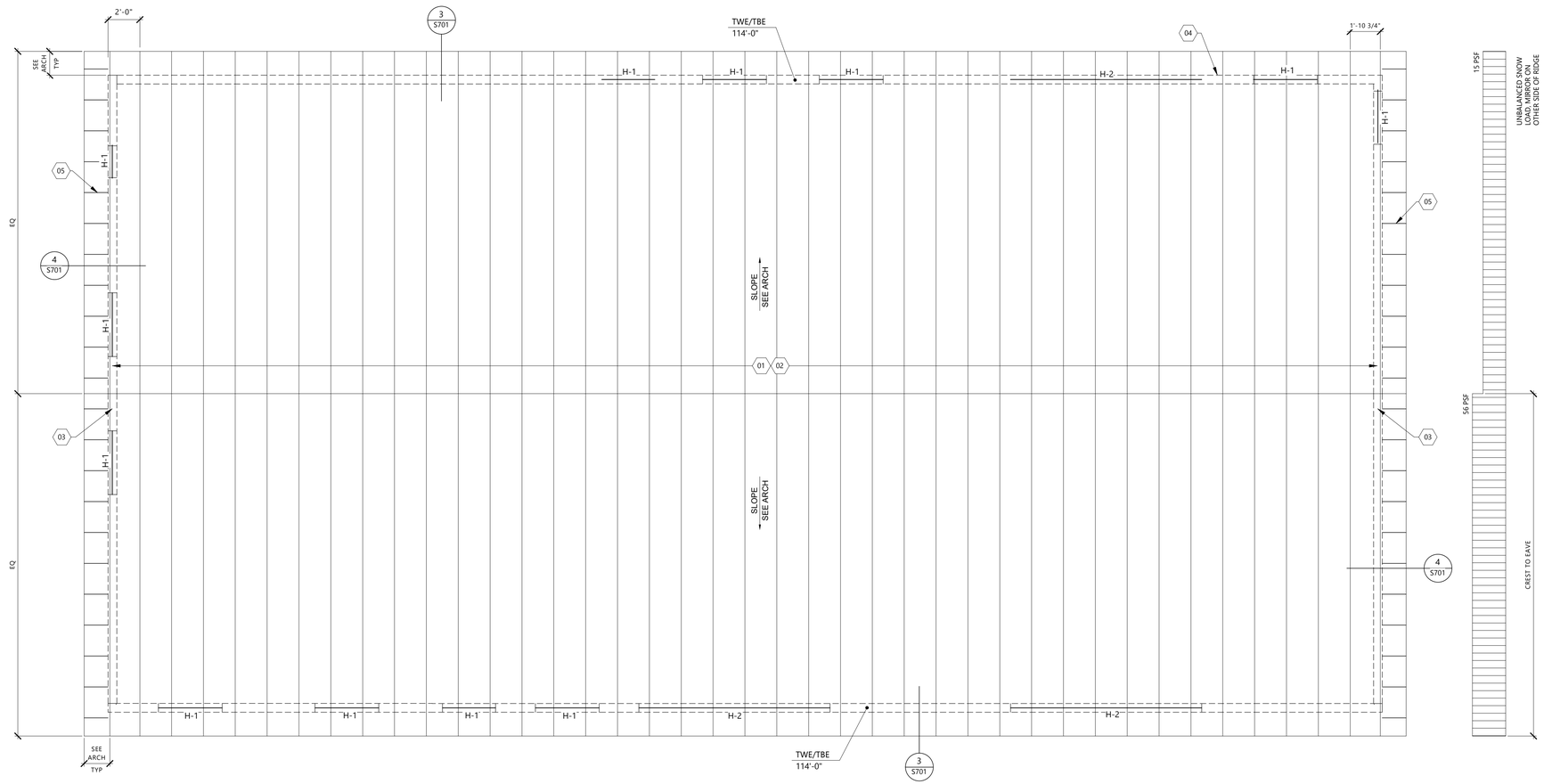
01 PRE-ENGINEERED WOODEN ROOF TRUSSES @ 2'-0" O/C BY TRUSS SUPPLIER -SEE SHEET S002

02 ROOF SHEATHING (UNBLOCKED). APPLY PANEL W/ STRONG AXIS PERPENDICULAR TO ROOF FRAMING. SEE SHEET S001 FOR NAIL SIZE AND PATTERN

03 WOOD GABLE END WALL TRUSS W/ VERT WEBS @ 16" O/C & DROPPED TOP CHORD FOR OUTRIGGERS -SEE 4/S701

04 PROVIDE FULL DEPTH BLOCKING TRUSS BETWEEN TRUSSES. FASTEN SHEATHING TO BLOCKING W/ 8d NAILS @ 6" O/C. TOE-NAIL BLOCKING TO DOUBLE TOP PLATE W/ 16d NAILS @ 6" O/C. NAIL TO TRUSS VERTICALS W/ (3) -16d NAILS @ EA END OF BLOCKING.

05 2x4 OUTRIGGERS @ 24" O/C



1 S203 ROOF FRAMING PLAN

1/4" = 1'-0"

N

EAPC

Architecture | Engineering
Interior Design | Industrial

TELEPHONE 701.609.5290
313 Main Street, Suite 200, Williston ND 58801
www.eapc.net

CONSULTANTS

CLIENT
WATFORD CITY PARK DISTRICT

PROJECT DESCRIPTION
PARK SHOP BUILDING

CITY WATFORD CITY
STATE ND

ISSUE DATES

MARK	DESCRIPTION	DATE
CD	RE-BID	05/20/2026

PROJECT NO: 20262250
DRAWN BY: JEB
CHECKED BY: CRM

STAMP

REGISTERED PROFESSIONAL ENGINEER
JEREMY DAHMEN
PE-40215
DATE 05/20/2026
NORTH DAKOTA

DRAWING TITLE
ROOF FRAMING PLAN

S203

Revit Version: 2025
Print Date: 05/21/2026 10:00:54 AM

SHEARWALL SCHEDULE

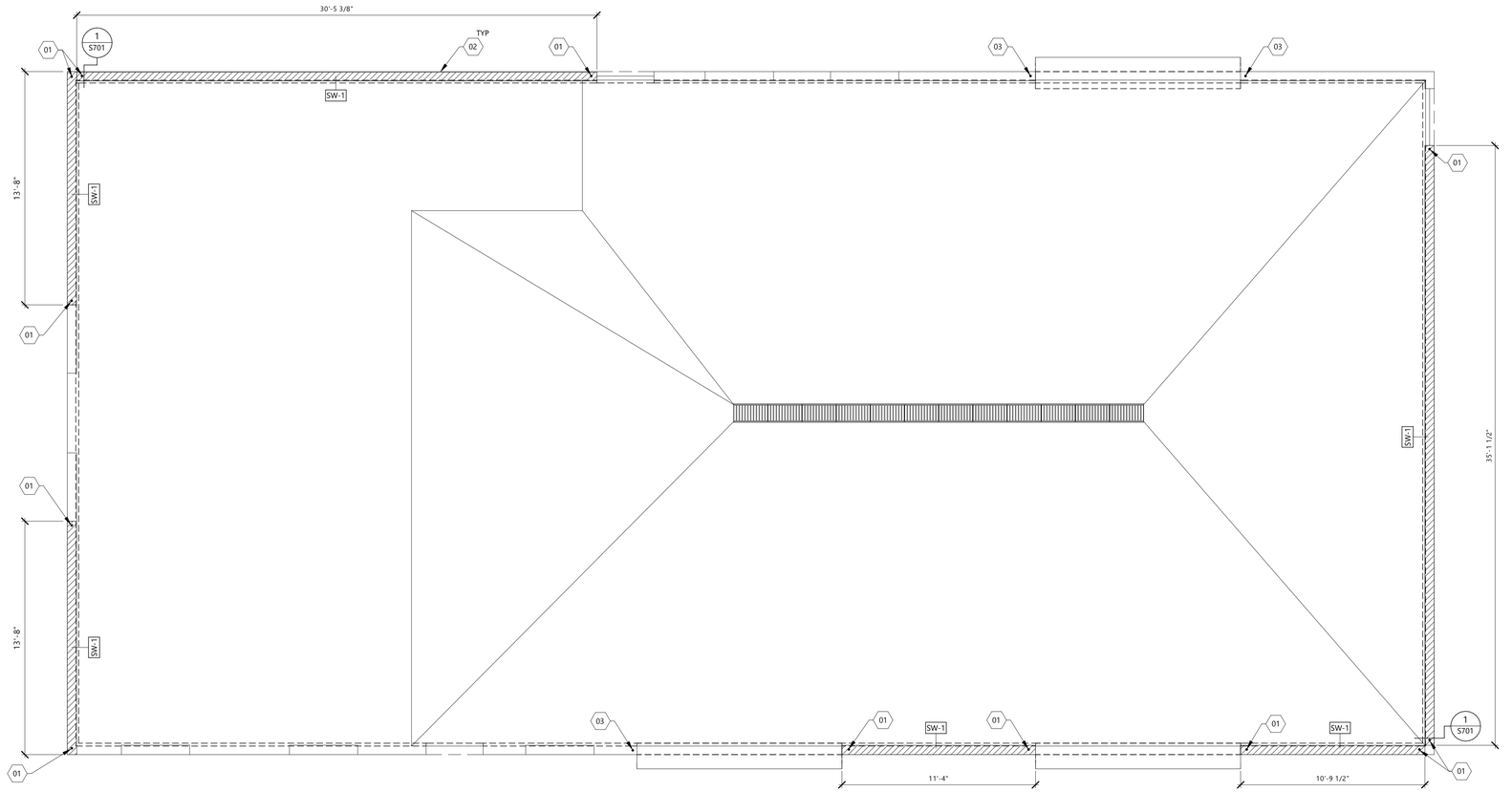
MARK	SHEATHING	NAILING (SIZING & SPACING) EDGE	NAILING (SIZING & SPACING) INTERMEDIATE	CHORD MEMBER REQUIREMENTS AT END OF SHEARWALLS	HOLD-DOWN & ANCHOR ROD AT EACH END	SILL ANCHORAGE
SW-1	7/16" MIN. STRUCTURAL SHEATHING W/ (2) SIMPSON CS16 EA SIDE OF FRAME FRONT & BACK	8d @ 6" O/C	8d @ 12" O/C	(3) 2x6 SPF POST	AT-3G ADHESIVE ANCHOR W/ 5/8"Ø F1154 GR. 36 ANCHOR ROD, SIMPSON HDUS HOLDDOWN, 9" EFFECTIVE EMBEDMENT	1/2"Øx6" SIMPSON TITEN HD (GALV) ANCHORS @ 24" O/C W/ 1/2" CUT WASHER

NOTES:
1. SHEATHING TO BE FASTENED TO END MEMBERS WITH EDGE NAILING PATTERN.
2. FASTEN DOUBLE 2x MEMBERS W/ (2) ROWS 10d NAILS @ 8" O/C.
3. AT OPENING IN SHEARWALLS, FASTEN SHEATHING AROUND OPENING WITH EDGE NAILING NOTED IN SHEARWALL SCHEDULE.
4. FOR FRAMED OPENING IN WOOD STUD WALL, SEE 2/S701

KEYNOTE LEGEND:

< < < INDICATES KEYNOTE ON PLAN

01	APPROXIMATE LOCATION OF SHEARWALL HOLD-DOWN, SEE DETAIL 1/S701
02	2x6 STUD BEARING WALL W/ STUDS @ 16" O/C, TYP
03	APPROXIMATE LOCATION OF BEARING STUD HOLD-DOWN, SEE DETAIL 2/S701



1 S301 FIRST FLOOR SHEARWALL PLAN
1/4" = 1'-0"

N

EAPC
Architecture | Engineering
Interior Design | Industrial
TELEPHONE 701.609.5290
313 Main Street, Suite 200, Williston ND 58801
www.eapc.net

CONSULTANTS

CLIENT
WATFORD CITY PARK DISTRICT

PROJECT DESCRIPTION
PARK SHOP BUILDING

CITY WATFORD CITY
STATE ND

ISSUE DATES

MARK	DESCRIPTION	DATE
CD	RE-BID	05/20/2026

PROJECT NO: 20262250
DRAWN BY: JEB
CHECKED BY: CRM

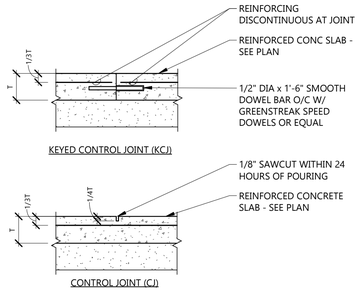
STAMP

REGISTERED PROFESSIONAL ENGINEER
JEREMY DAHMEN
PE-40215
DATE 05/20/2026
NORTH DAKOTA

DRAWING TITLE
SHEARWALL PLANS

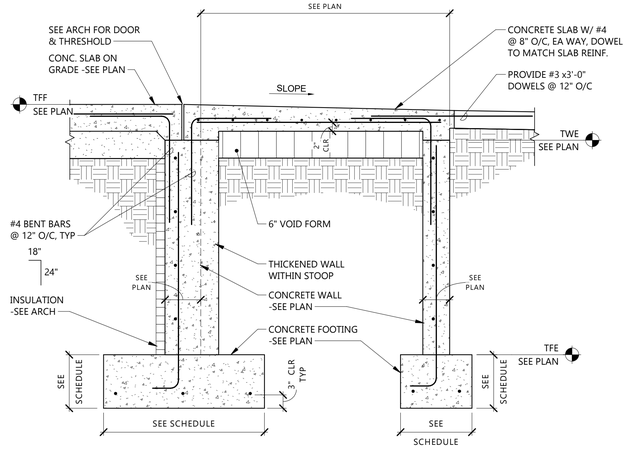
S301

Revit Version: 2025
Plot Date: 5/21/2026 10:00:54 AM



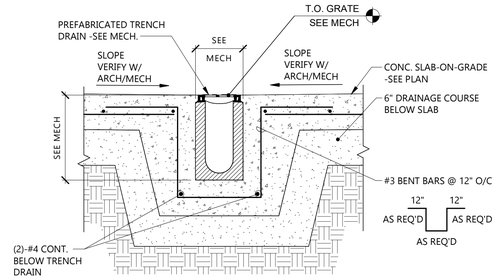
6 S601 SLAB CONTROL JOINTS

3/4" = 1'-0"



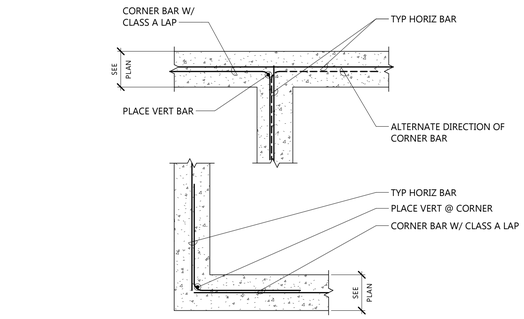
3 S601 TYPICAL STOOP DETAIL

3/4" = 1'-0"



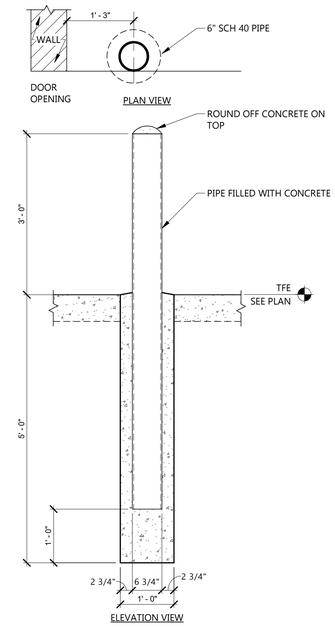
5 S601 TRENCH DRAIN DETAIL

1" = 1'-0"



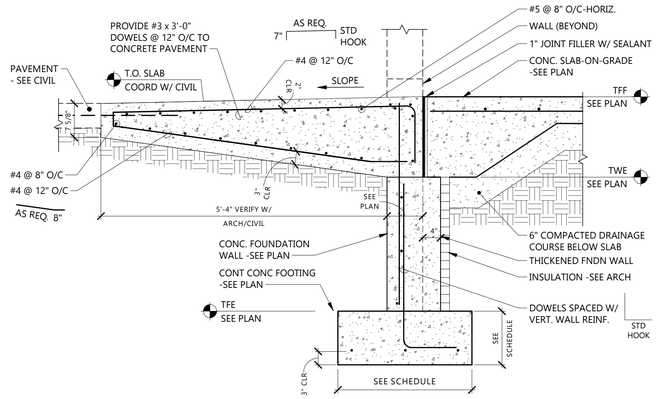
2 S601 TYPICAL FDN CORNERS (SINGLE REBAR)

3/4" = 1'-0"



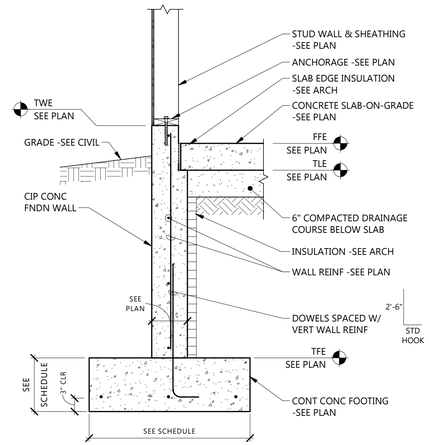
7 S601 INSIDE BOLLARD DETAIL

3/4" = 1'-0"



4 S601 SECTION @ OVERHEAD DOORS

3/4" = 1'-0"



1 S601 TYP EXTERIOR FOUNDATION WALL

3/4" = 1'-0"

Revit Version: 2025
Plot Date: 5/21/2026 10:00:54 AM

EAPC
Architecture | Engineering
Interior Design | Industrial
TELEPHONE 701.609.5290
313 Main Street, Suite 200, Williston ND 58801
www.eapc.net

CONSULTANTS

CLIENT
WATFORD CITY PARK DISTRICT

PROJECT DESCRIPTION
PARK SHOP BUILDING

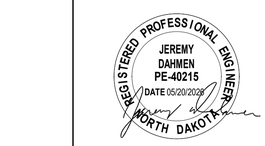
CITY WATFORD CITY
STATE ND

ISSUE DATES

MARK	DESCRIPTION	DATE
CD	RE-BID	05/20/2026

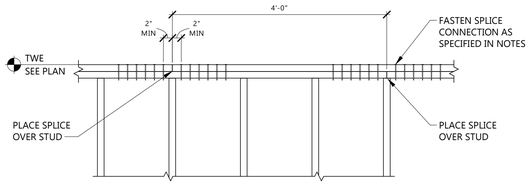
PROJECT NO: 20262250
DRAWN BY: JEB
CHECKED BY: CRM

STAMP



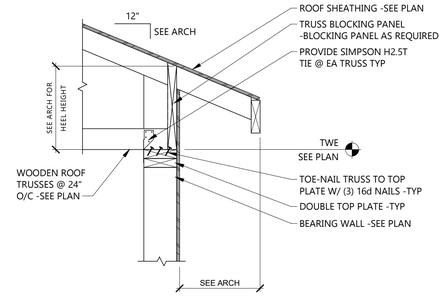
DRAWING TITLE
FOUNDATION DETAILS

S601



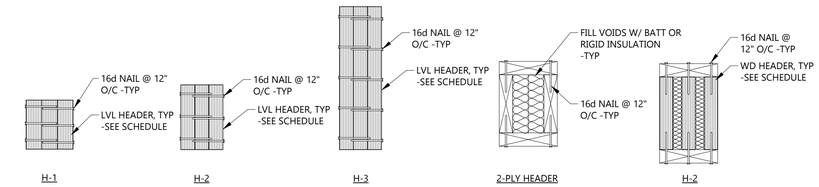
6 S701 WOOD STUD WALL SPLICE DETAIL

3/4" = 1'-0"



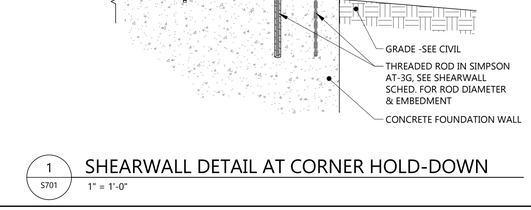
3 S701 TYPICAL TRUSS BEARING DETAIL

1" = 1'-0"



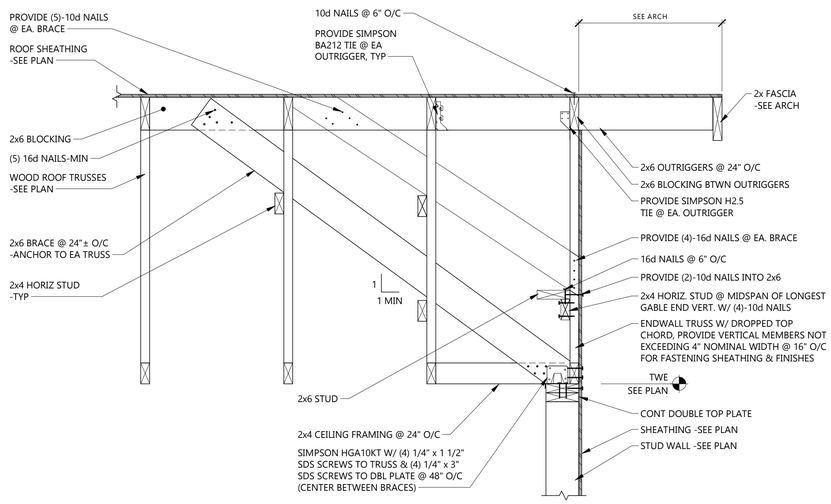
5 S701 TYP WOOD HEADER DETAIL

1 1/2" = 1'-0"



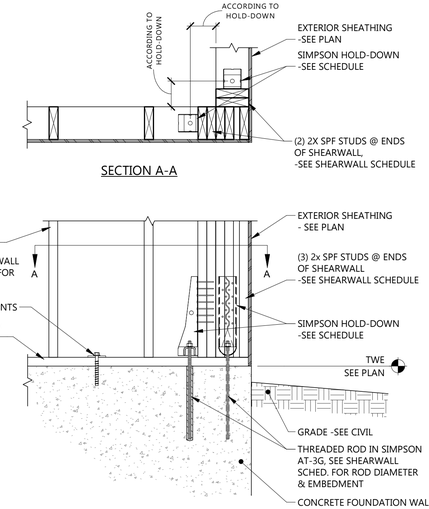
2 S701 FRAMED OPENING IN WOOD STUD WALL

3/8" = 1'-0"



4 S701 END WALL TRUSS BRACING

1" = 1'-0"



1 S701 SHEARWALL DETAIL AT CORNER HOLD-DOWN

1" = 1'-0"

EAPC
Architecture | Engineering
Interior Design | Industrial
TELEPHONE 701.609.5290
313 Main Street, Suite 200, Williston ND 58801
www.eapc.net

CONSULTANTS

CLIENT
WATFORD CITY PARK DISTRICT

PROJECT DESCRIPTION
PARK SHOP BUILDING

CITY WATFORD CITY
STATE ND

ISSUE DATES

MARK	DESCRIPTION	DATE
CD	RE-BID	05/20/2026

PROJECT NO: 20262250
DRAWN BY: JEB
CHECKED BY: CRM

STAMP

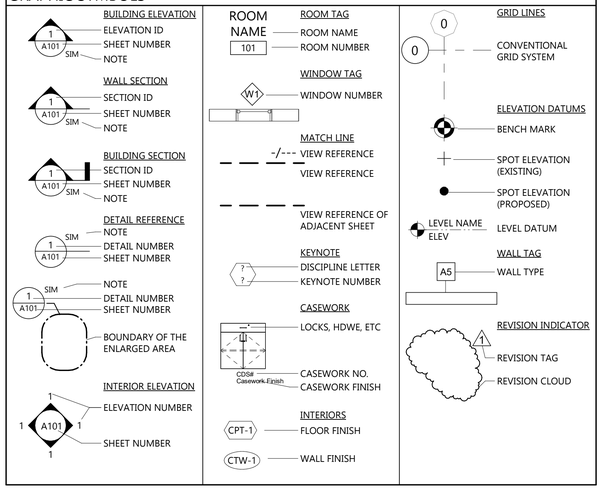
REGISTERED PROFESSIONAL ENGINEER
JEREMY DAHMEN
PE-40215
DATE 05/20/2026
NORTH DAKOTA

DRAWING TITLE
FRAMING DETAILS

S701

Revit Version: 2025
Print Date: 5/21/2026 10:00:54 AM

GRAPHIC SYMBOLS



A	
A/C	AIR CONDITIONING
AB	ANCHOR BOLT
ACC	ACCESSIBLE
ACT	ACOUSTICAL CEILING TILE
ADA	AMERICAN WITH DISABILITIES ACT
ADD	ADDENDUM
ADJ	ADJACENT / ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
AL	ALUMINUM
ALT	ALTERNATE
AP	ACCESS PANEL
APL	ACRYLIC PANEL
APPROX	APPROXIMATE
APT	APARTMENT
ARCH	ARCHITECT / ARCHITECTURAL
AVE	AVENUE
AVG	AVERAGE
AWP	ACOUSTIC WALL PANEL

B	
BB	BOND BEAM
BD	BOARD
BFD	BI-FOLD DOOR
BITUM	BITUMINOUS
BLDG	BUILDING
BLKG	BLOCKING
BLVD	BOULEVARD
BM	BEAM
BO	BOTTOM OF / BY OTHERS
BOT	BOTTOM
BR	BEDROOM
BRG	BEARING
BSMT	BASEMENT
BTWN	BETWEEN

C	
CAB	CABINET
CC	CUBICAL CURTAINS
CD	CONSTRUCTION DOCUMENTS
CF	CUBIC FOOT
CFCI	CONTRACTOR FURNISHED AND CONTRACTOR INSTALLED
CFS	COLORED/SEALED/STAINED CONCRETE
CFS	CORK FLOOR SHEET
CFT	CORK FLOOR TILE
CG	CORNER GUARD
CG	CORNER GUARDS
CHRL	CHAIR RAIL
CIP	CAST-IN-PLACE
CJ	CONTROL JOINT
CL	CENTERLINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CO	CLEANOUT
COIL	COILING DOOR
COL	COLUMN
COMP	COMPOSITE / COMPOSITION

C CONT	
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
COORD	COORDINATE
CORR	CORRIDOR
CPT	CARPET
CPTD	COMMON PATH TRAVEL DISTANCE
CR	CURTAIN ROD
CTB	CERAMIC TILE BASE
CTF	CERAMIC TILE FLOOR
CTOP	COUNTER TOP
CTR	CENTER
CTW	CERAMIC TILE WALL
CU	CUBIC
CY	CUBIC YARD

D	
D	DEPTH / CLOTHES DRYER
d	PENNY (NAILS)
dB	DECIBLE
DBL	DOUBLE
DEMO	DEMOLISH / DEMOLITION
DEPT	DEPARTMENT
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DIV	DIVISION
DN	DOWN
DR	DOOR
DS	DOWNSPOUT
DTL	DETAIL
DW	DISHWASHER
DWG	DRAWING
DWR	DRAWER

E	
E	EAST
EA	EACH
EB	EXPANSION BOLT
EC	ELECTRICAL CONTRACTOR
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EM	EMERGENCY
EP	ELECTRICAL PANEL / END PANEL
EPS	EXPANDED POLYSTYRENE
EQ	EQUAL
EQUIP	EQUIPMENT
ESD	ELECTRO STATIC DISCHARGE VINYL TILE
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
EX	EXISTING
EXA	EXIT ACCESS
EXD	EXIT DISCHARGE
EXT	EXTERIOR

F	
F	FAHRENHEIT
F/R	FIRE RATED
FB	FIRE BARRIER
FBD	FIBER BOARD
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISHED FLOOR
FG	FLOAT GLASS
FIN	FINISH
FLASH	FLASHING
FLR	FLOOR
FOF	FACE OF FINISH
FOS	FACE OF STUDS
FOW	FACE OF WALL
FP	FIRE PROTECTION / FIRE PARTITION
FR	FIRE RESISTANT
FRMG	FRAMING
FRP	FIBERGLASS REINFORCED PANEL
FRZ	FREEZER
FT	FEET / FIRE TREATED
FTG	FOOTING
FURN	FURNISH / FURNISHINGS
FURR	FURRING
FUT	FUTURE
FW	FIRE WALL
FWP	FABRIC WRAP PANEL

G	
G	GENERAL
GA	GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GDC	GYMNASIUM DIVIDER CURTAINS
GL	GLASS / GLAZING / GLAZED
GLAM	GLUE-LAMINATED WOOD
GWB	GYPSUM WALL BOARD
GYP	GYPSUM

H	
H	HIGH
HC	HOLLOW CORE
HDBD	HARDBOARD
HDR	HEADER
HDWD	HARDWOOD
HDWE	HARDWARE
HEX	HORIZONTAL EXIT
HM	HOLLOW METAL
HNR	HANDRAILS
HOLD	HOLD TO INDICATED DIMENSION
HORIZ	HORIZONTAL
HP	HIGH POINT
HR	HOUR
HSKP	HOUSEKEEPING
HT	HEIGHT

I	
ID	INSIDE DIAMETER / INSIDE DIMENSION
IG	INSULATING GLASS
IJ	ISOLATION JOINT
IN	INCHES
INFO	INFORMATION
INSP	INSPECTION / INSPECTOR
INST	INSTALLATION
INSUL	INSULATION
INT	INTERIOR
INT STN	INTERIOR STONEWORK
IR	IMPACT RESISTANT
IRD	IMPACT RESISTANT DOORS
ISO	ISOLATION / INTERNATIONAL STANDARDS ORGANIZATION

J	
JAN	JANITOR
JBE	JOIST BEARING ELEVATION
JST	JOIST
JT	JOINT

K	
KIT	KITCHEN
KO	KNOCK OUT
KP	KICK PLATE

L	
L	LEFT / LENGTH
LAB	LABORATORY
LAM	LAMINATED
LAV	LAVATORY
LB	POUND
LGSF	LIGHT GAUGE STEEL FRAMING
LH	LEFT-HAND
LHR	LEFT-HAND REVERSED
LKR	LOCKER
LP	LOW POINT
LR	LIVING ROOM
LSC	NFPA 101 LIFE SAFETY CODE
LSG	LAMINATED SAFETY GLASS
LT	LIGHT
LTWT	LIGHTWEIGHT
LVT	LUXURY VINYL TILE

M	
MA	MEDICAL AIR
MACH	MACHINE
MAINT	MAINTENANCE / MAINTAIN
MAS	MASONRY
MAX	MAXIMUM
MBR	MASTER BEDROOM
MC	MECHANICAL CONTRACTOR
MCW	MINERAL CORE WOOD
MDF	MEDIUM-DENSITY FIBERBOARD
MECH	MECHANICAL
MED	MEDICAL / MEDICINE
MEMB	MEMBRANE
MEZZ	MEZZANINE
MFR	MANUFACTURER / MANUFACTURING
MIN	MINIMUM / MINUTE
MIRR	MIRROR

M CONT	
MISC	MISCELLANEOUS
MKBD	MARKER BOARD
MO	MASONRY OPENING
MOD	MODIFY / MODULE
MP	METAL PANEL
MTC	METAL TOILET COMPARTMENT
MTD	MOUNTED
MTL	METAL
MTRL	MATERIAL
MULL	MULLION
MULT	MULTIPLE
MWP	MODULAR/FOLDING PARTITION

N	
N	NORTH / NITROGEN
N2O	NITROUS OXIDE
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NR	NOT RATED
NTS	NOT-TO-SCALE

O	
O2	OXYGEN
O/C	ON-CENTER
OA	OVERALL
OD	OUTSIDE DIAMETER / OUTSIDE DIMENSION
OFCI	OWNER FURNISHED AND CONTRACTOR INSTALLED
OFD	OVERFLOW DRAIN
OFF	OFFICE
OFOI	OWNER FURNISHED AND OWNER INSTALLED
OH	OVERHEAD
OL	OCCUPANT LOAD
OLF	OCCUPANT LOAD FACTOR
OPNG	OPENING
OPP	OPPOSITE
OSB	ORIENTED STRAND BOARD
OZ	OUNCE

P	
P	POWER
PA	PUBLIC ADDRESS
PB	PARTICLE BOARD
PC	PRECAST
PERF	PERFORATED
PERP	PERPENDICULAR
PG	PLATE GLASS
PH	PHASE
PIR	POLYISOCYANURATE RIGID INSULATION
PL	PLATE / PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLYWD	PLYWOOD
PNL	PANEL
PNT	PAINT
POL	POLISH
PP	PUSH PLATE
PR	PAIR
PREFAB	PREFABRICATE
PROV(D)	PROVIDE(D)
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PRESERVATIVE TREATED / POINT / POST-TENSIONED
PTC	PLASTIC TOILET COMPARTMENT
PTD	PAPER TOWEL DISPENSER
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
PWC	PROTECTIVE WALL COVERING

Q	
QT	QUARRY TILE
QTR	QUARTER

R	
R	RISER / RADIUS
R&S	ROD & SHELF
RAD	RADIUS
RB	RESILIENT BASE
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN / ROAD
REBAR	REINFORCING BAR
REC	RECESSED
RECEP	RECEPTION
RECEPT	RECEPTACLE
REF	REFERENCE
REFR	REFRIGERATOR
REG	REGISTRATION / REGISTER
REINF	REINFORCED
REM	REMOVE / REMOTE
REQ(D)	REQUIRE(D)
RES	RESILIENT
RES	RESINOUS FLOORING
RET	RETAINING / RETURN
REV	REVERSE / REVISION
RH	RIGHT HAND
RL	RAINLEADER
RM	ROOM
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RSF	RESILIENT SHEET FLOOR
RTF	RESILIENT TILE FLOOR

S	
S	SOUTH / SHELF
SAFB	SOUND ATTENUATION FIRE BLANKET
SB	SMOKE BARRIER
SC	SOLID CORE / SHOWER CURTAINS / SMOKE COMPARTMENT
SCD	SEAT COVER DISPENSER
SCHED	SCHEDULE
SCR	SHOWER CURTAIN ROD
SCS	SPECIALTY CEILING SYSTEM (WOOD/METAL)
SCWD	SOLID CORE WOOD DOOR
SCX	SMOKE COMPARTMENT EXIT
SD	SOAP DISPENSER / SEE DETAIL
SEC	SECOND
SECT	SECTION
SF	SQUARE FEET
SGC	STAGE CURTAINS
SHT	SHEET
SHTG	SHEATHING
SHWR	SHOWER
SIM	SIMILAR
SL	SLOPE
SLNT	SEALANT
SND	SANITARY NAPKIN DISPENSER
SNW	SANITARY NAPKIN WASTE RECEPTICAL
SP	SPANDREL PANEL / SMOKE PARTITION
SPEC	SPECIFICATION
SQ	SQUARE
SSF	SOLID SURFACE
SSTL	STAINLESS STEEL
ST	STONE
STA	STATION
STC	SOUND-TRANSMISSION CLASS
STD	STANDARD
STE	SUITE
STL	STEEL
STN	WOOD STAINING
STOR	STORAGE
STR	STAIR TREADS/RISERS
STRUCT	STRUCTURE / STRUCTURAL
STX	SUITE EXIT
SURF	SURFACE
SUSP	SUSPENDED
SWP	SOUND WALL PANEL
SYM	SYMMETRICAL

T	
T	TOP / TREAD / TILE
T&B	TOP & BOTTOM
T&G	TONGUE & GROOVE
TA	TOILET ACCESSORIES
TB	TOWEL BAR
TBD	TO BE DETERMINED
TDX	TRAVEL DISTANCE TO EXIT
TEL	TELEPHONE
TEMP	TEMPERED / TEMPORARY / TEMPERATE
TER	TERRAZZO
TFE	TOP OF FOOTING ELEVATION
TFF	TOP OF FINISH FLOOR
TG	TEMPERED GLASS
THK	THICK
THS	THRESHOLD
TJE	TOP OF JOIST ELEVATION
TKBD	TACK BOARD
TLT	TOILET
TO	TOP OF
TOL	TOLERANCE
TOPO	TOPOGRAPHICAL
TPD	TOILET PAPER DISPENSER
TRS	TRANSITION STRIPS
TSE	TOP OF SLAB ELEVATION
TWE	TOP OF WALL ELEVATOIN
TYP	TYPICAL

U	
UC	UNDER COUNTER
UG	UNDERGROUND
UNFIN	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
UPH	FABRIC/VINYL
UTIL	UTILITY

V	
V	VINYL
VAC	VACUUM
VAR	VARIABLE / VARNISH / VARIES
VCT	VINYL-COMPOSITION TILE
VER	VERIFY
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VOL	VOLUME
VWC	VINYL WALL COVERING

W	
W	WEST / WIDE / CLOTHES WASHER
W/	WITH / WHERE
W/O	WITHOUT
WAIN	WAINSCOT
WC	WATER CLOSET
WD	WOOD
WDT	WINDOW TREATMENTS
WDW	WINDOW
WG	WALL GUARD
WH	WATER HEATER / WALL HYDRANT
WP	WATER PROOF
WR	WASTE RECEPTICALE
WRL	WALL RAIL
WS	WEATHER STRIPPING
WT	WEIGHT

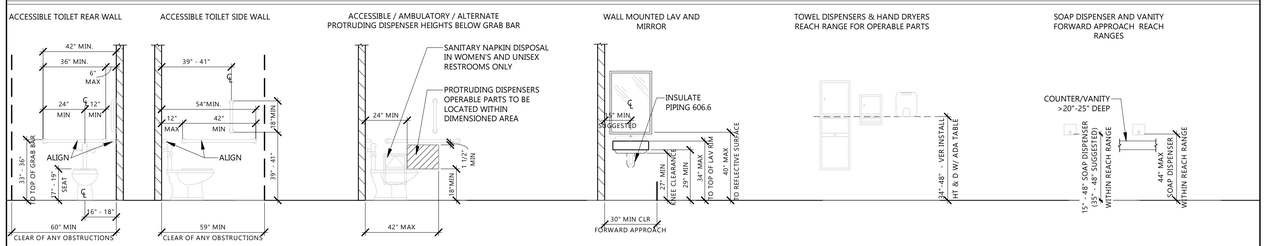
X	
XFMR	POWER TRANSFORMER
XPS	EXTRUDED POLYSTYRENE

Y	
YD	YARD

SPECIAL SYMBOLS	
#	POUND / NUMBER
/	PER
@	AT
°	DEGREE
Ø	DIAMETER
℄	CENTERLINE
∠	ANGLE
⊥	PERPINDICULAR

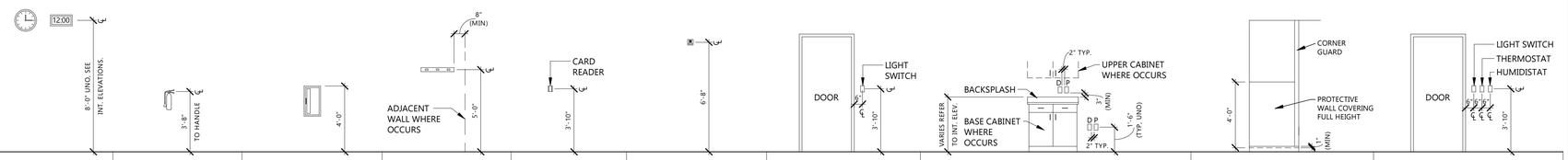
TYPICAL FIXTURE MOUNTING HEIGHTS & LOCATIONS

NOTE: DIMENSIONS SHOWN ARE TO FINISHED SURFACE (I.E. FACE OF TILE)
NOTE: ALL DIMENSION RANGES REPRESENT THE MINIMUM & MAXIMUM UNLESS SPECIFIED OTHERWISE (I.E. 36" - 48")



TYPICAL EQUIPMENT MOUNTING HEIGHTS & LOCATIONS

NOTE: DIMENSIONS SHOWN ARE TO FINISHED SURFACE (I.E. FACE OF TILE)
NOTE: ALL DIMENSION RANGES REPRESENT THE MINIMUM & MAXIMUM UNLESS SPECIFIED OTHERWISE (I.E. 36" - 48"), VERIFY VENDOR EQUIPMENT REQUIREMENTS AS REQUIRED



FLOOR LINE										
TYPICAL MOUNTING HEIGHTS										
DESCRIPTION	WALL CLOCK	FIRE EXTINGUISHER (FE)	FIRE EXTINGUISHER CABINET (FEC)	MOP HOLDER	CARD READER	FIRE ALARM	LIGHT SWITCH	RECEPTACLES (POWER & DATA)	PROTECTIVE WALL COVERING	THERMOSTAT & HUMIDISTAT
NOTES	ANALOG AND DIGITAL SHOWN				REFER TO ELECTRICAL	WALL MOUNTED SHOWN, REFER TO ELECTRICAL	AT DOOR LOCATION, REFER TO ELECTRICAL	REFER TO ELECTRICAL RECEPTACLES ABOVE COUNTERTOP TO BE 3" MINIMUM FROM TOP OF BACKSPLASH TO BOTTOM OF RECEPTACLE FINISH COVER PLATE, REFER TO INTERIOR ELEVATIONS P = POWER RECEPTACLE; D = DATA RECEPTACLE	INSTALL PROTECTIVE WALL COVERING 1" MINIMUM BELOW TOP OF WALL BASE AS SCHEDULED	AT DOOR LOCATION, REFER TO MECHANICAL

EAPC
Architecture | Engineering
Interior Design | Industrial
TELEPHONE 701.609.5290
313 Main Street, Suite 200, Williston ND 58801
www.eapc.net

CONSULTANTS

CLIENT
WATFORD CITY PARK DISTRICT

PROJECT DESCRIPTION
PARK SHOP BUILDING

CITY WATFORD CITY
STATE ND

ISSUE DATES

MARK	DESCRIPTION	DATE
CD	RE-BID	05/20/2026

PROJECT NO: 20262250
DRAWN BY: MGB
CHECKED BY: BD

STAMP

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Architect under the laws of the State of North Dakota.
Signature:
Date: 05/20/2026 REG. NO. : 1718

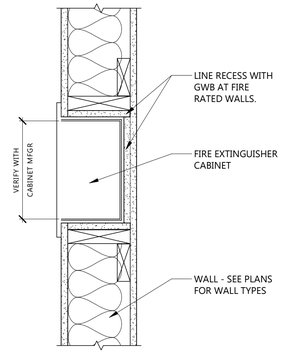
DRAWING TITLE
GENERAL ARCHITECTURAL INFORMATION

A001

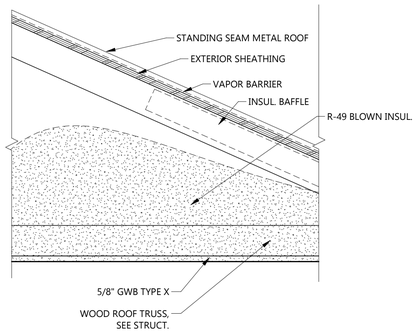
Revit Version: 2025
Plot Date: 05/20/26 1:06:20 PM

GENERAL INTERIOR PARTITION NOTES

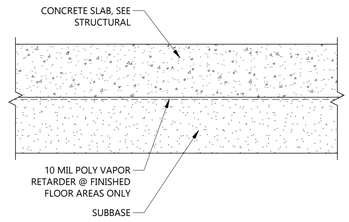
1. SEE FLOOR PLANS FOR EXTENT OF EACH WALL
2. ON ALL RESTROOM WALLS AND OTHER AREAS SCHEDULED TO RECEIVE FRP OR TILE FINISH, PROVIDE A MINIMUM OF MOISTURE-RESISTANT GYPSUM BOARD.
3. ALL PARTITIONS CONTAINING PLUMBING OR HAVING AN EXTERIOR FACE SHALL BE INSULATED.
4. WHERE GYPSUM BOARD EXTENDS TO UNDERSIDE OF STRUCTURE ABOVE, STOP GYPSUM BOARD 1/2" BELOW LINE OF STRUCTURE AND SEAL AS REQUIRED.
5. REFERENCE FINISH SCHEDULE FOR ADDITIONAL FINISHES NOT INDICATED ON PARTITION TYPES.
6. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS OF WALL PENETRATIONS. SEAL ALL OPENINGS WITH ACOUSTICAL SEALANT.
7. PROVIDE FIRE-TREATED WOOD FOR ALL WALL-MOUNTED FINISH CARPENTRY, ARCHITECTURAL WOODWORK, TOILET PARTITIONS, ACCESSORIES AND OTHER SIMILAR ITEMS.



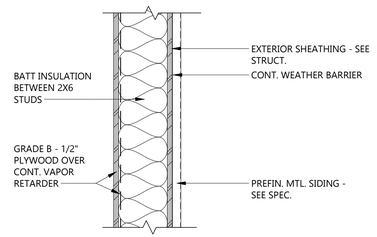
1 / A021 RECESSED FEC
1/4" = 1'-0"



A ROOF TYPE

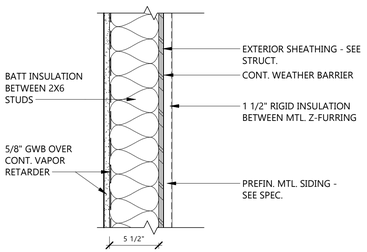


1 FLOOR ASSEMBLY
(TYPICAL AT BASEMENT AND SLAB-ON-GRADE AREA)



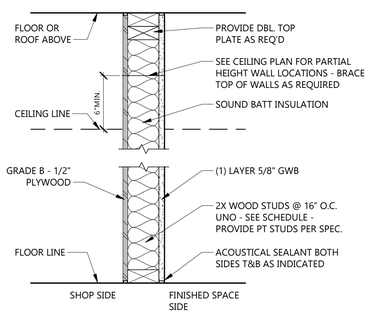
SEE ELEVATIONS FOR PANEL TYPE LOCATIONS

E2 EXTERIOR MTL. PANEL ON WOOD STUD



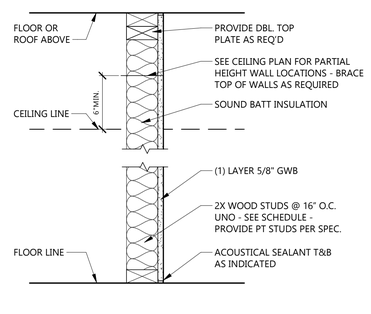
SEE ELEVATIONS FOR PANEL TYPE LOCATIONS

E1 EXTERIOR MTL. PANEL ON WOOD STUD



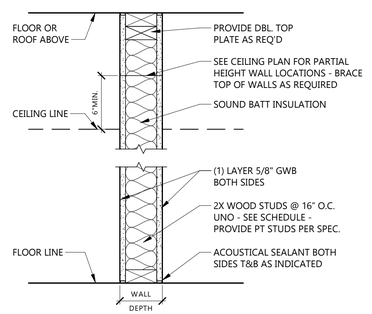
TYPE MARK	STUD SIZE	WALL DEPTH	FIRE RATING	FIRE TEST	SOUND ATTENUATION SAB	STC	TEST	NOTES
L5	2X4	4 5/8"	NR	-	3 1/2"	-	-	2x4
L7	2X4	6 5/8"	NR	-	3 1/2"	-	-	2x4

L NON-RATED GWB ON WOOD STUDS W/ LINER



TYPE MARK	STUD SIZE	WALL DEPTH	FIRE RATING	FIRE TEST	SOUND ATTENUATION SAB	STC	TEST	NOTES
K4	2X4	4 1/8"	NR	-	-	-	-	

K NON-RATED GWB (ONE SIDE) ON WOOD STUDS



TYPE MARK	STUD SIZE	WALL DEPTH	FIRE RATING	FIRE TEST	SOUND ATTENUATION SAB	STC	TEST	NOTES
B5	2X4	4 3/4"	NR	-	3 1/2"	-	-	2x4
B7	2X4	6 3/4"	NR	-	5 1/2"	-	-	2x6

B NON-RATED GWB ON WOOD STUDS

EAPC
Architecture | Engineering
Interior Design | Industrial
TELEPHONE 701.609.5290
313 Main Street, Suite 200, Williston ND 58801
www.eapc.net

CONSULTANTS

CLIENT
WATFORD CITY PARK DISTRICT

PROJECT DESCRIPTION
PARK SHOP BUILDING

CITY WATFORD CITY
STATE ND

ISSUE DATES

MARK	DESCRIPTION	DATE
CD	RE-BID	05/20/2026

PROJECT NO: 20262250
DRAWN BY: MGB
CHECKED BY: BD

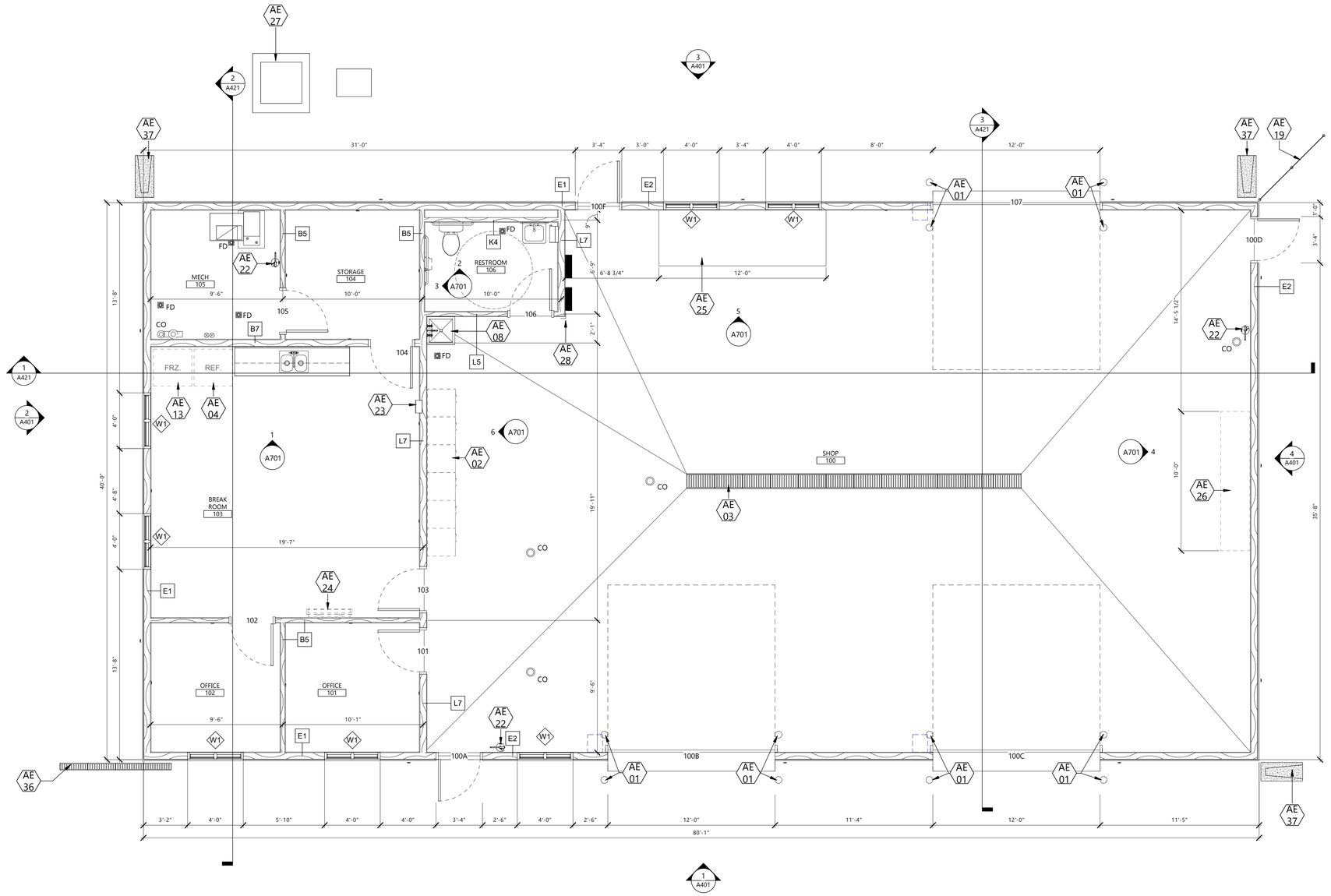
STAMP

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Architect under the laws of the State of North Dakota.
Signature:
Date: 05/20/2026 REG. NO. : 1718

DRAWING TITLE
WALL, FLOOR AND ROOF TYPES

A021

Revit Version: 2025
Plot Date: 5/21/2026 1:06:20 PM



1 A201 FLOOR PLAN

1/4" = 1'-0"

N

Revit Version: 2025
Plot Date: 05/21/2026 1:06:21 PM

GENERAL NOTES

1. GENERAL NOTES APPLY TO ALL DRAWING SETS
2. SUBCONTRACTORS FOR EACH TRADE ARE ADVISED THAT INFORMATION PERTINENT TO THEIR WORK MAY OCCUR IN OTHER PORTIONS OF THE CONTRACT DOCUMENTS. ALL NOTES ARE TO BE REVIEWED AND APPLIED TO RELATED BUILDINGS DOCUMENTS.
3. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS. NOTIFY ARCHITECT IMMEDIATELY IF ANY CONFLICTS OR DISCREPANCIES OCCUR BEFORE AND / OR DURING CONSTRUCTION.
4. CROSS REFERENCES SHOWN ON DRAWINGS DO NOT NECESSARILY INDICATE ALL LIKE CONDITIONS AND DO NOT LIMIT APPLICATION OF ANY DRAWING OF DETAIL WHERE SPECIFIC DIMENSIONS, DETAILS, OR DESIGN INTENT CANNOT BE DETERMINED, CONSULT THE ARCHITECT PRIOR TO PROCEEDING WITH WORK.
5. REVIEW SPECIFICATIONS FOR INSTRUCTIONS NOT SHOWN ON DRAWINGS. INFORMATION COMMON TO SEVERAL DRAWINGS MAY BE NOTED ON ONLY ONE. CONTRACTOR IS RESPONSIBLE FOR ENTIRE SET OF DOCUMENTS.
6. DIMENSIONS AT INTERIOR PARTITIONS ARE TO THE CENTER OF THE WALL UNLESS NOTED OTHERWISE.
7. PROVIDE FIRE RETARDANT WOOD BACKING IN WALLS AS REQUIRED AT ALL WALL MOUNTED ITEMS.
8. DRAWINGS ARE NOT TO BE SCALED. CONTRACTOR TO VERIFY ALL DIMENSIONS & FIELD CONDITIONS PRIOR TO COMMENCING THE WORK.
9. CAULK ALL COUNTERTOPS, BACKSPLASHES & CABINETS AT LOCATIONS WHERE THEY MEET WALL. SEAL ALL CUT-OUTS IN COUNTERTOPS.
10. ALL PIPING, CONDUITS, &RELATED MECHANICAL & ELECTRICAL ITEMS SHALL BE CONCEALED WITHIN DRYWALL AND/OR PLASTER FURRING AS REQUIRED IN FINISHED AREAS WHETHER SHOWN ON DRAWINGS OR NOT UNLESS OTHERWISE NOTED.
11. SEAL AROUND ALL MECHANICAL & ELECTRICAL EQUIPMENT PENETRATIONS AT RATED WALLS, ABOVE & BELOW CEILINGS, WITH A UL APPROVED FIRE-STOPPING MATERIAL - SEE SPECIFICATIONS.
12. WHEN WALL PARTITIONS OF DIFFERENT RATING INTERSECT, THE HIGHEST RATED PARTITIONS TAKE PRECEDENT.
13. ALL FURNITURE FOR REFERENCE ONLY (SHOWN DASHED) WILL BE OWNER FURNISHED & OWNER INSTALLED.
14. RADIUS EXPOSED COUNTERTOP CORNERS 2" RADIUS TYPICALLY. (2" WHERE 3MM EDGE BANDING, 1" RADIUS AT SSF EDGES.) U.N.O.
15. ALL NEW WALLS ARE TYPE 'B5' WALL PARTITIONS UNLESS NOTED OTHERWISE. SEE WALL TYPES SHEET A021.
16. REFER TO ELEVATIONS FOR WALL MOUNTED EQUIPMENT. PROVIDE IN-WALL BLOCKING AS REQUIRED
17. FLOOR ELEVATION 100'-0" = 2072.38 ON CIVIL DRAWINGS.

KEYNOTE LEGEND:

< < < INDICATES KEYNOTE ON PLAN

AE 01	BOLLARD - SEE CIVIL & STRUCT. FOR DETAILS
AE 02	LOCKERS - B.O.
AE 03	TRENCH DRAIN - SEE MECH. & STRUCT.
AE 04	REFRIGERATOR - B.O.
AE 08	MOP SINK - SEE PLUMB.
AE 13	FREEZER - B.O.
AE 19	FENCE - SEE CIVIL
AE 22	FIRE EXTINGUISHER - SEE SPEC.
AE 23	FIRE EXTINGUISHER CABINET - SEE SPEC.
AE 24	TV - B.O.
AE 25	H-9279T - PACKING TABLE WITH COMPOSITE WOOD TOP, MFG. ULINE 144"x48"
AE 26	WORK STATION - B.O.
AE 27	MECH. EQUIPMENT - SEE MECH.
AE 28	CORNER GUARD - SEE SPEC.
AE 36	TRENCH DRAIN - SEE CIVIL & STRUCT.
AE 37	36"x20" CONC. SPLASH BLOCK

EAPC
Architecture | Engineering
Interior Design | Industrial
TELEPHONE 701.609.5290
313 Main Street, Suite 200, Williston ND 58801
www.eapc.net

CONSULTANTS

CLIENT
WATFORD CITY PARK DISTRICT

PROJECT DESCRIPTION
PARK SHOP BUILDING

CITY WATFORD CITY
STATE ND

ISSUE DATES

MARK	DESCRIPTION	DATE
CD	RE-BID	05/20/2026

PROJECT NO: 20262250
DRAWN BY: MGB/EMC
CHECKED BY: BD

STAMP

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

Signature:

Date: 05/20/2026 REG. NO. : 1718

DRAWING TITLE
FLOOR PLAN

A201

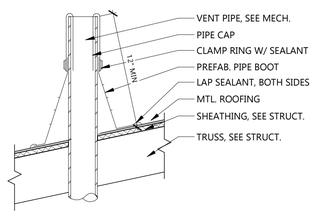
KEYNOTE LEGEND

< < < INDICATES KEYNOTE ON PLAN

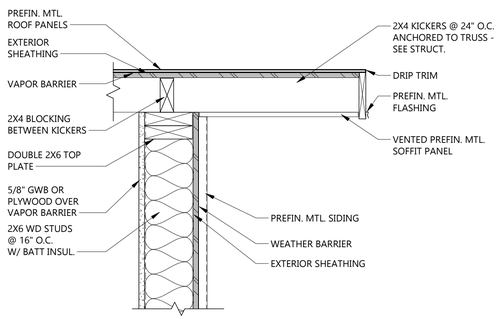
AE 09	PREFIN. MTL. GUTTER - 6" W X 4" D - SEE SPEC.
AE 10	SNOW GUARDS
AE 11	PREFIN. MTL. ROOF PANELS - SEE SPEC.
AE 21	VTR - SEE DETAIL 5/A221 & MECH.
AE 31	CONTINUOUS ICE & WATER SHIELD - SEE SPEC.
AE 35	RIDGE VENT - SEE DETAIL 2/A221

ROOF PLAN LEGEND

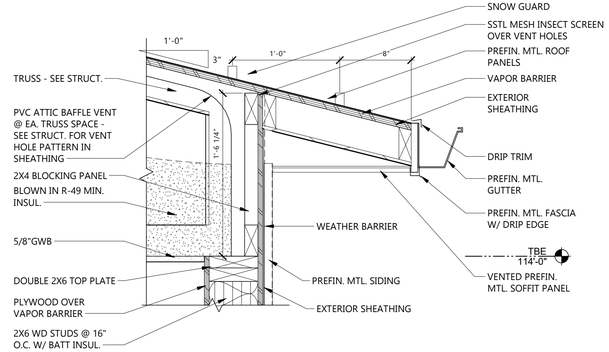
	ICE & WATER SHIELD
	WALL BELOW



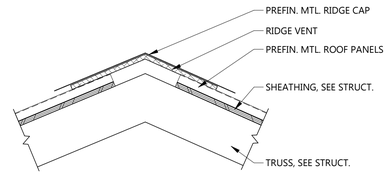
5 A221 **VTR DETAIL**
1 1/2" = 1'-0"



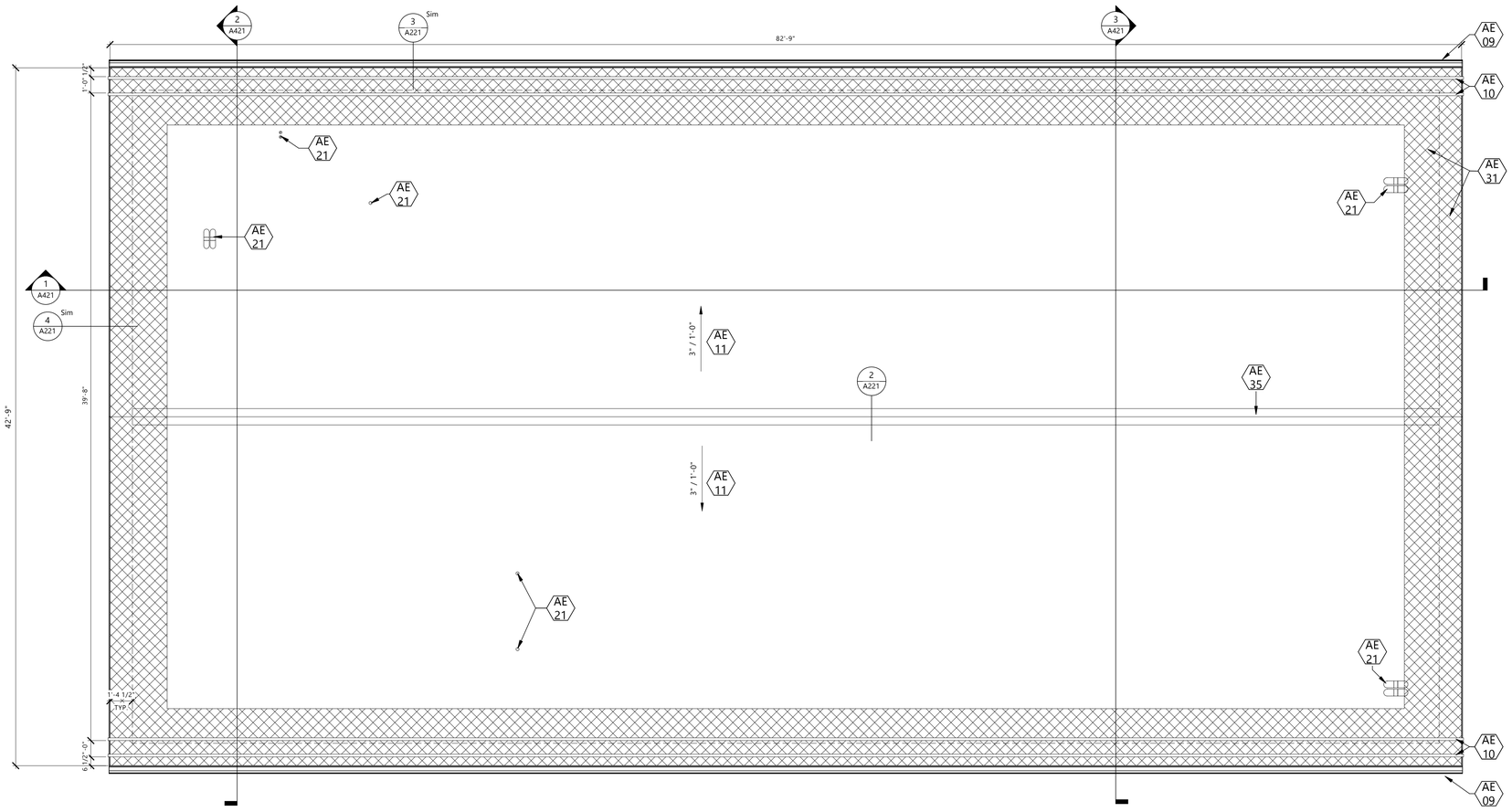
4 A221 **ROOF DETAIL**
1 1/2" = 1'-0"



3 A221 **EAVE DETAIL**
1 1/2" = 1'-0"



2 A221 **RIDGE VENT DETAIL**
1 1/2" = 1'-0"



1 A221 **ROOF PLAN**
1/4" = 1'-0"

N

Revit Version: 2025
Plot Date: 5/21/2026 1:06:21 PM

EAPC

Architecture	Engineering
Interior Design	Industrial

TELEPHONE 701.609.5290
313 Main Street, Suite 200, Williston ND 58801
www.eapc.net

CONSULTANTS

CLIENT
WATFORD CITY PARK DISTRICT

PROJECT DESCRIPTION
PARK SHOP BUILDING

CITY WATFORD CITY
STATE ND

ISSUE DATES

MARK	DESCRIPTION	DATE
CD	RE-BID	05/20/2026

PROJECT NO: 20262250
DRAWN BY: MGB
CHECKED BY: BD

STAMP

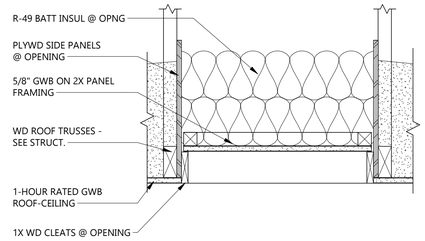
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Architect under the laws of the State of North Dakota.

Signature:

Date: 05/20/2026 REG. NO. : 1718

DRAWING TITLE
ROOF PLAN & DETAILS

A221



2 A301 — ATTIC ACCESS PANEL

1 1/2" = 1'-0"

KEYNOTE LEGEND:

< < < INDICATES KEYNOTE ON PLAN

AE 27	MECH. EQUIPMENT - SEE MECH.
AE 32	60" DIAMETER CEILING FAN - SEE ELEC.
AE 33	SIDE MOUNT OVERHEAD DOOR OPENER
AE 34	22" X 30" INSULATED ATTIC ACCESS HATCH

CEILING PLAN SYMBOLS

AIR DISTRIBUTION SYMBOLS
- DIFFUSER SUPPLY
- DIFFUSER RETURN
- ACCESS PANEL
- SLOT OR LINEAR DIFFUSER OR RETURN
- CEILING FAN

MISCELLANEOUS
- PUBLIC ADDRESS OR AS SHOWN
- SMOKE DETECTOR
- VENT
- JUNCTION BOX
- WIRELESS ACCESS POINT

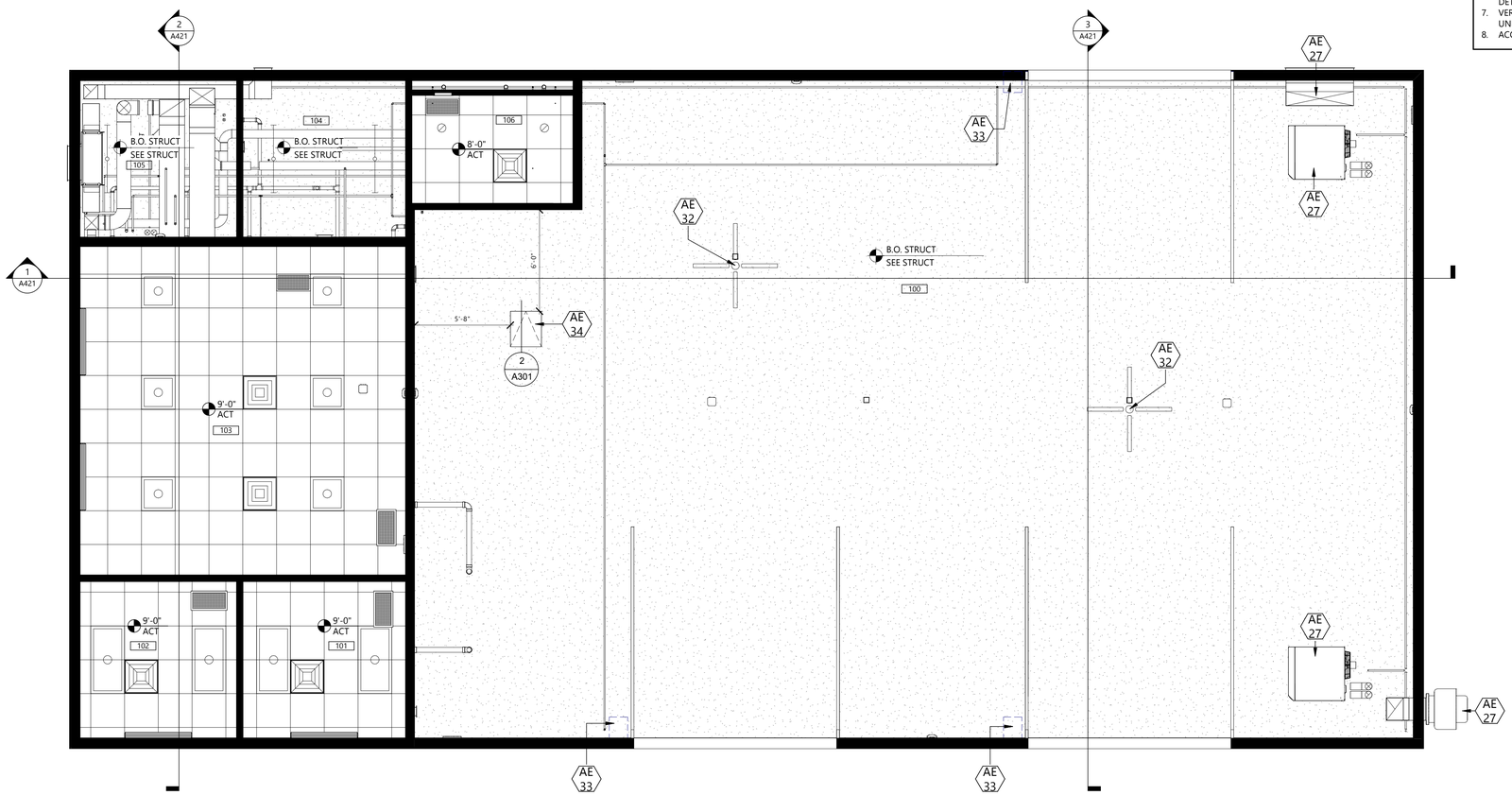
TYPICAL SUSPENDED CEILING GRID
- 24" x 24" GRID SHOWN
- GYPSUM WALL BOARD OR PLASTER

LIGHT FIXTURES
- 2x4 LAY-IN
- 2x2 LAY-IN
- EXIT LIGHT
- TRACK LIGHT

WALL HEIGHT
- WALL TO EXTEND FULL HEIGHT TO STRUCTURE ABOVE

GENERAL CEILING NOTES

1. REFER TO MECHANICAL DRAWINGS FOR QUANTITY AND TYPE OF DIFFUSERS, RETURN GRILLES AND EXHAUST GRILLES, ETC. SCRIBE CEILING MATERIALS FOR A TIGHT FIT.
2. REFER TO ELECTRICAL DRAWINGS FOR QUANTITY AND TYPE OF LIGHTS, SPEAKERS, DETECTORS, POWER OUTLETS, ETC. SCRIBE CEILING MATERIALS FOR A TIGHT FIT. WHERE DEVICES ARE NOT SHOWN ON PLAN, FIELD VERIFY LOCATION AND QUANTITY PRIOR TO REMOVAL. THESE DEVICES WILL BE RELOCATED INTO NEW PLAN.
3. PAINT ALL UNFINISHED MATERIALS OVERHEAD. INCLUDING, BUT NOT LIMITED TO; DUCTS, PIPING, CONDUIT, ETC, SEE FINISHES SHEET FOR PAINT
4. GENERAL CONTRACTOR TO COORDINATE CEILING MOUNTED EQUIPMENT SUPPORT REQUIREMENTS, LOCATIONS, DIMENSIONS, ETC, WITH EQUIPMENT SUPPLER AND OWNER PRIOR TO INSTALLATION.
5. CEILING MOUNTED ITEMS SUCH AS LIGHT FIXTURES, GRILLES, DIFFUSERS, SPEAKERS, EXIT LIGHTS, ETC. SHALL BE LOCATED IN THE CENTER OF CEILING PANELS, GYPSUM BOARD SOFFITS, AND/OR PLASTER SOFFIT BAYS UNLESS NOTED OTHERWISE. COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS.
6. FINISHED GYPSUM BOARD SOFFITS SHALL EXTEND 1" BEYOND FACE AND EXPOSED ENDS OF WALL CABINETS, FULL-HEIGHT CABINETS, ETC. UNLESS NOTED OTHERWISE. COORDINATE CABINET DIMENSIONS WITH SUPPLIER GYPSUM BOARD FASCIA/SOFFIT DETAILS ARE REFERENCED FROM THE REFLECTED CEILING PLAN.
7. VERTICAL FACE OF SOFFITS THAT ALIGN WITH WALL TO RECEIVE ADJACENT WALL FINISH UNLESS NOTED OTHERWISE.
8. ACCESS PANELS SIZE, LOCATION AND QUANTITY COORDINATE WITH MECHANICAL



1 A301 — REFLECTED CEILING PLAN

1/4" = 1'-0"

N

Revit Version: 2025
Plot Date: 5/21/2026 1:06:22 PM

EAPC

Architecture | Engineering
Interior Design | Industrial

TELEPHONE 701.609.5290
313 Main Street, Suite 200, Williston ND 58801
www.eapc.net

CONSULTANTS

CLIENT
WATFORD CITY PARK DISTRICT

PROJECT DESCRIPTION
PARK SHOP BUILDING

CITY WATFORD CITY
STATE ND

ISSUE DATES

MARK	DESCRIPTION	DATE
CD	RE-BID	05/20/2026

PROJECT NO: 20262250
DRAWN BY: MGB
CHECKED BY: BD

STAMP

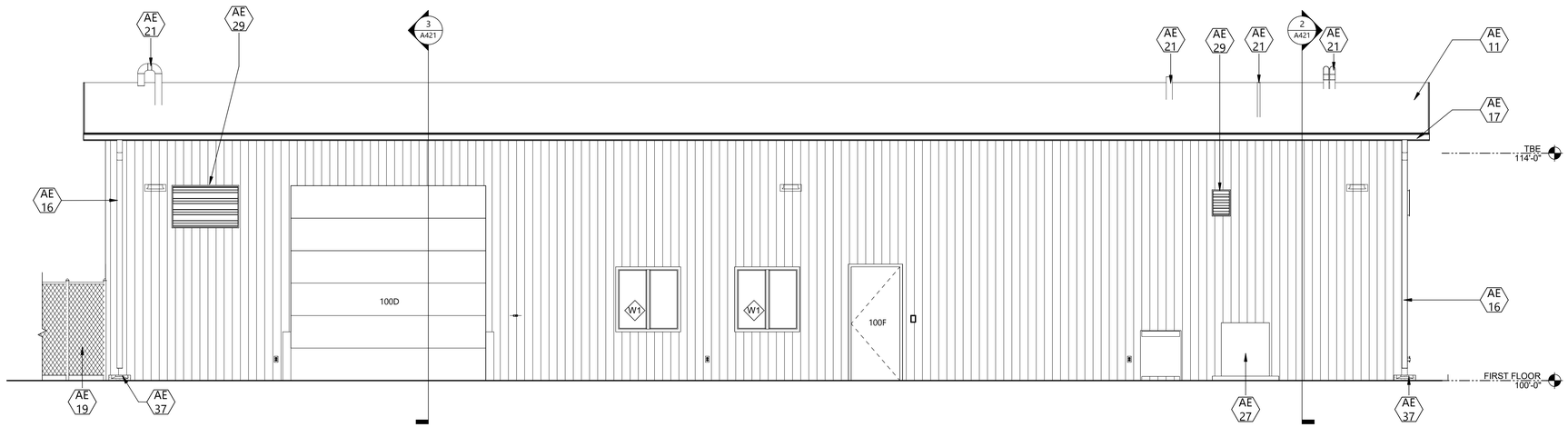
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Architect under the laws of the State of North Dakota.

Signature:

Date: 05/20/2026 REG. NO. : 1718

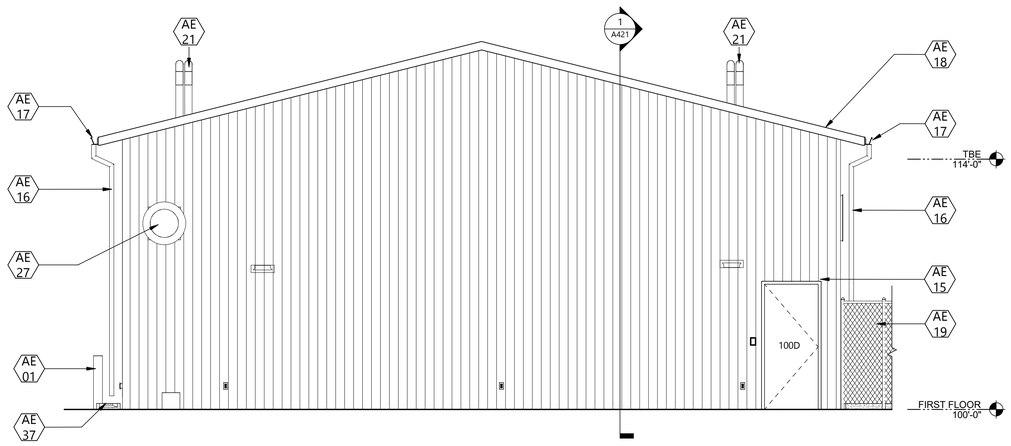
DRAWING TITLE
REFLECTED CEILING PLAN

A301



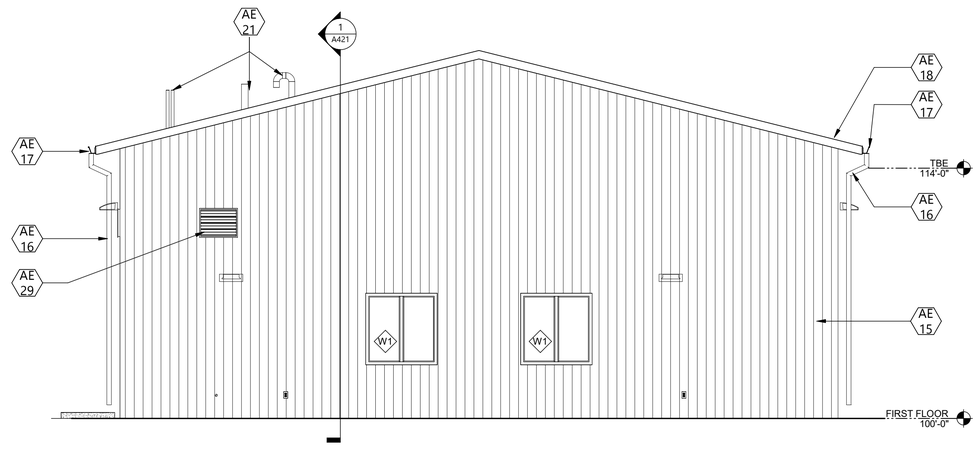
3 A401 WEST EXT ELEVATION

1/4" = 1'-0"



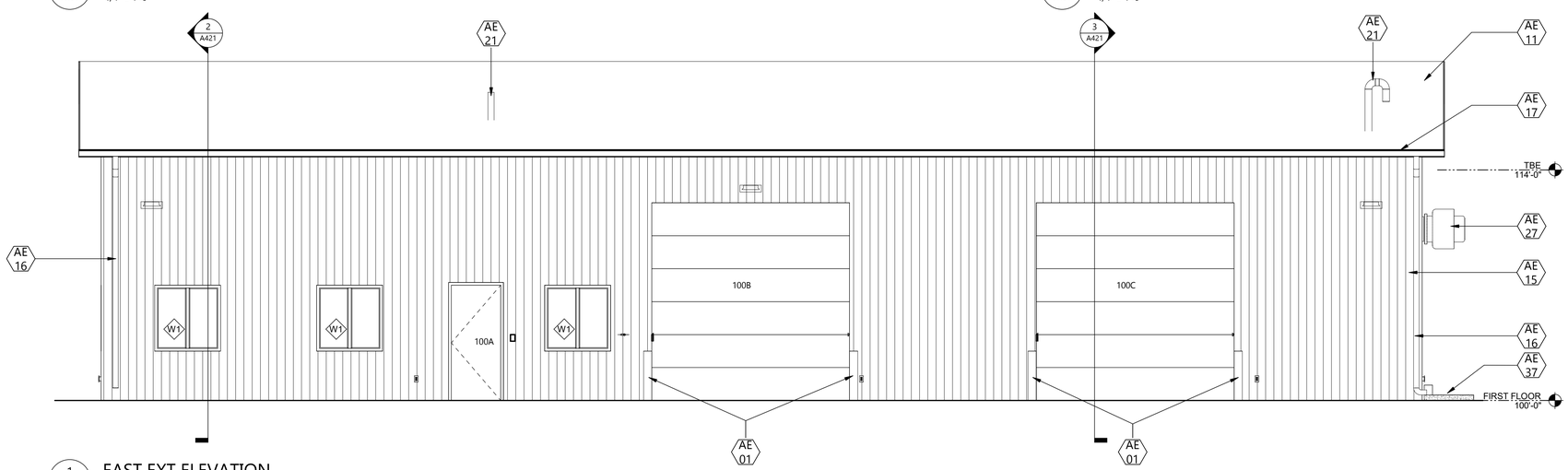
4 A401 NORTH EXT ELEVATION

1/4" = 1'-0"



2 A401 SOUTH EXT ELEVATION

1/4" = 1'-0"



1 A401 EAST EXT ELEVATION

1/4" = 1'-0"

KEYNOTE LEGEND:

< < < INDICATES KEYNOTE ON PLAN

AE 01 BOLLARD - SEE CIVIL & STRUCT. FOR DETAILS

AE 11 PREFIN. MTL. ROOF PANELS - SEE SPEC.

AE 15 PREFIN. MTL. SIDING - SEE SPEC.

AE 16 PREFIN. MTL. DOWNSPOUT, EXTEND TO TRENCH DRAIN OR SPLASH BLOCK

AE 17 PREFIN MTL GUTTER.

AE 18 PREFIN MTL. FASCIA

AE 19 FENCE - SEE CIVIL

AE 21 VTR - SEE DETAIL 5/A221 & MECH.

AE 27 MECH. EQUIPMENT - SEE MECH.

AE 29 PREFIN. MTL. LOUVER - SEE MECH.

AE 37 36"x20" CONC. SPLASH BLOCK

EAPC

Architecture | Engineering
Interior Design | Industrial

TELEPHONE 701.609.5290
313 Main Street, Suite 200, Williston ND 58801
www.eapc.net

CONSULTANTS

CLIENT
WATFORD CITY PARK DISTRICT

PROJECT DESCRIPTION
PARK SHOP BUILDING

CITY WATFORD CITY
STATE ND

ISSUE DATES

MARK	DESCRIPTION	DATE
CD	RE-BID	05/20/2026

PROJECT NO: 20262250
DRAWN BY: MGB
CHECKED BY: BD

STAMP

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

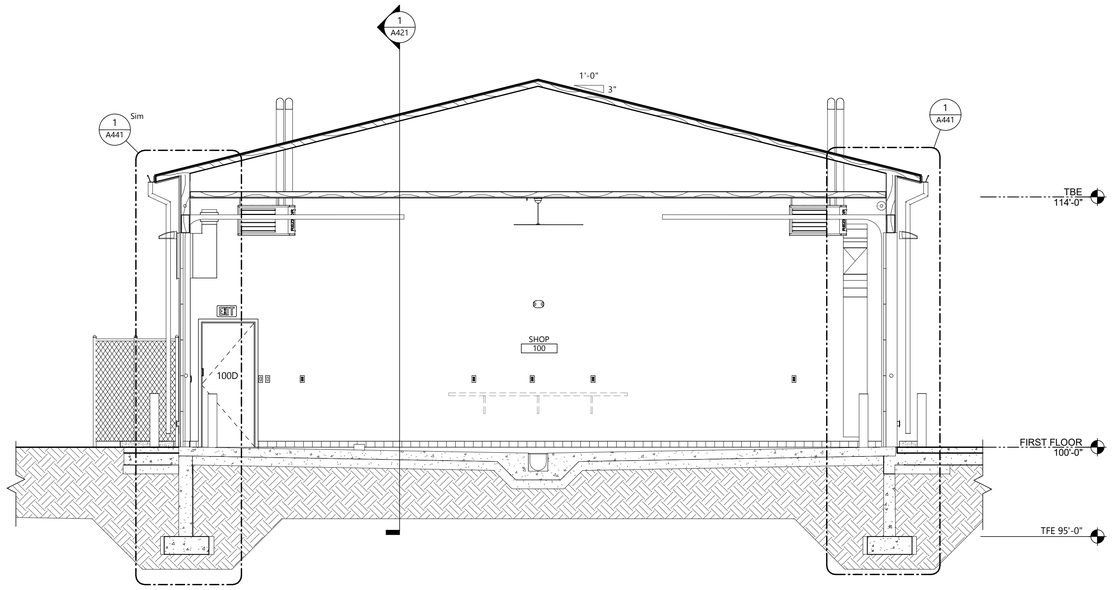
Signature:

Date: 05/20/2026 REG. NO. : 1718

DRAWING TITLE
BUILDING ELEVATIONS

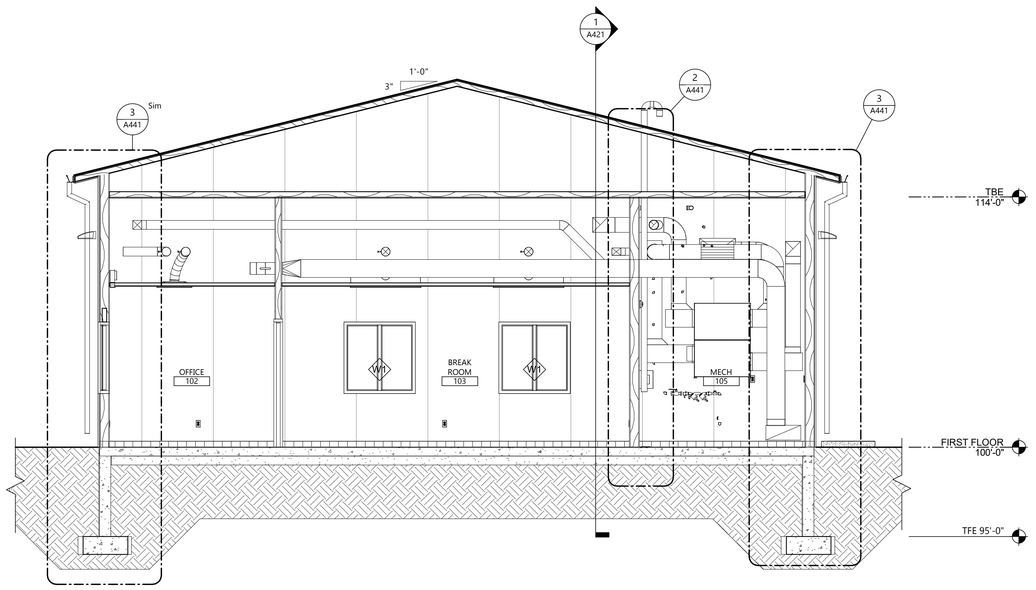
A401

Revit Version: 2025
Print Date: 5/21/2026, 1:06:23 PM



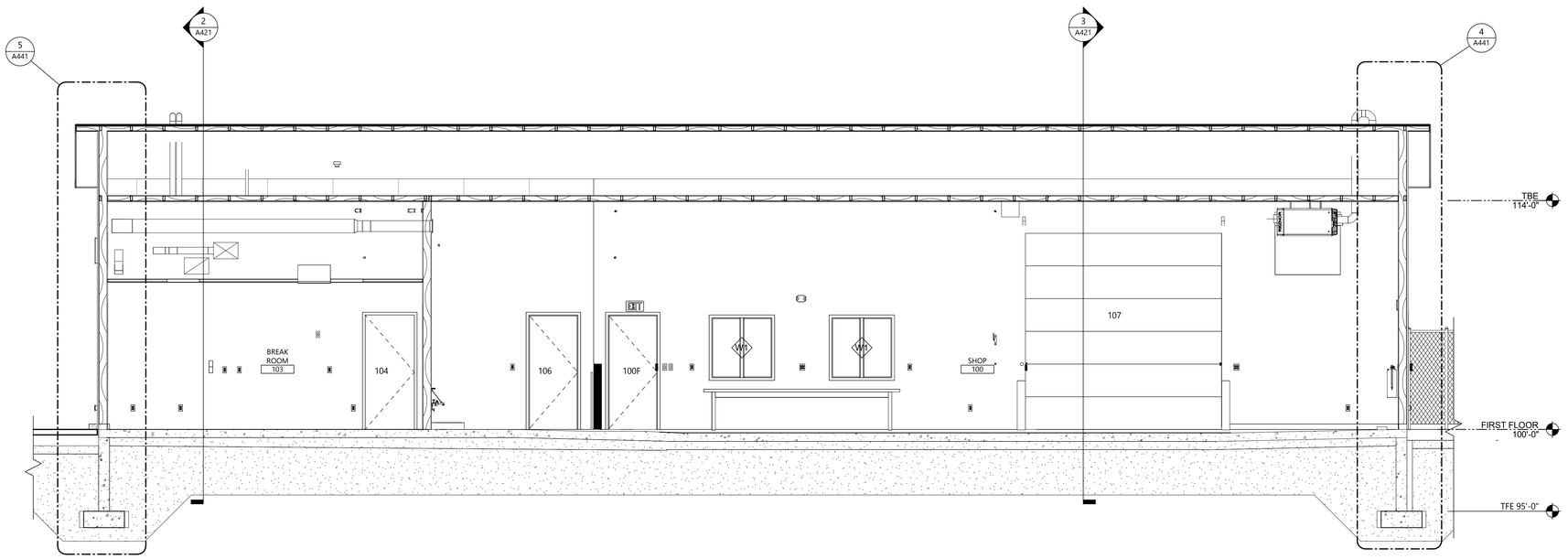
3 A421 BUILDING SECTION

1/4" = 1'-0"



2 A421 BUILDING SECTION

1/4" = 1'-0"



1 A421 BUILDING SECTION

1/4" = 1'-0"

Revit Version: 2025
Plot Date: 12/1/2026, 1:06:24 PM

EAPC

Architecture | Engineering
Interior Design | Industrial

TELEPHONE 701.609.5290
313 Main Street, Suite 200, Williston ND 58801
www.eapc.net

CONSULTANTS

CLIENT
WATFORD CITY PARK DISTRICT

PROJECT DESCRIPTION
PARK SHOP BUILDING

CITY WATFORD CITY
STATE ND

ISSUE DATES

MARK	DESCRIPTION	DATE
CD	RE-BID	05/20/2026

PROJECT NO: 20262250
DRAWN BY: EK
CHECKED BY: BD

STAMP

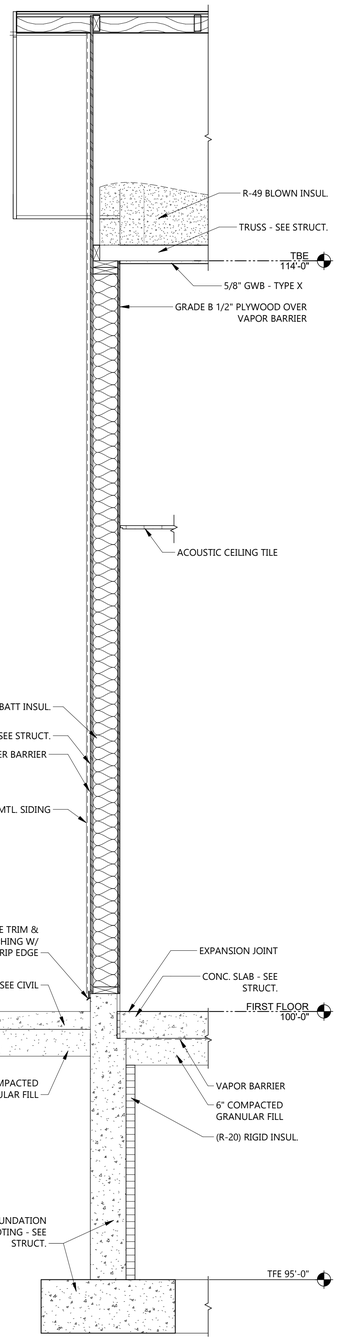
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Architect under the laws of the State of North Dakota.

Signature:

Date: 05/20/2026 REG. NO. : 1718

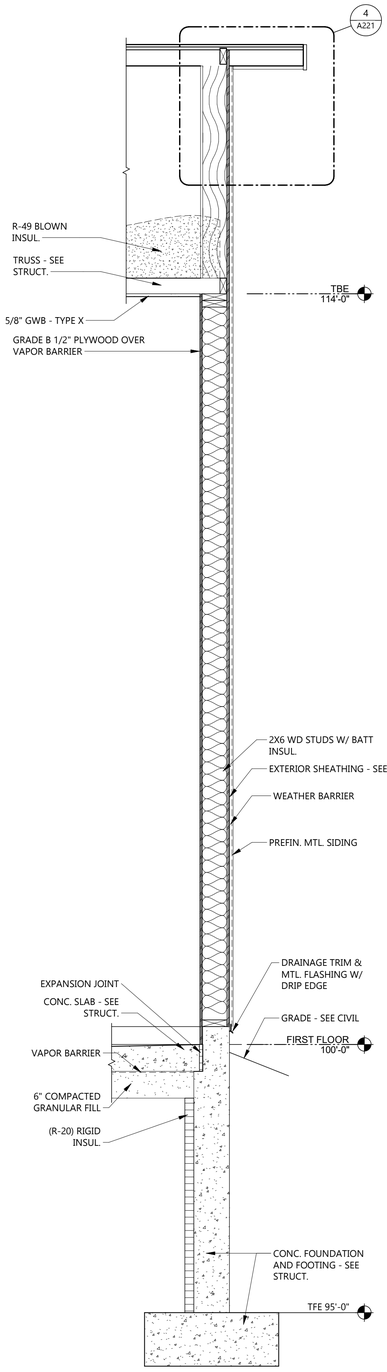
DRAWING TITLE
BUILDING SECTIONS

A421



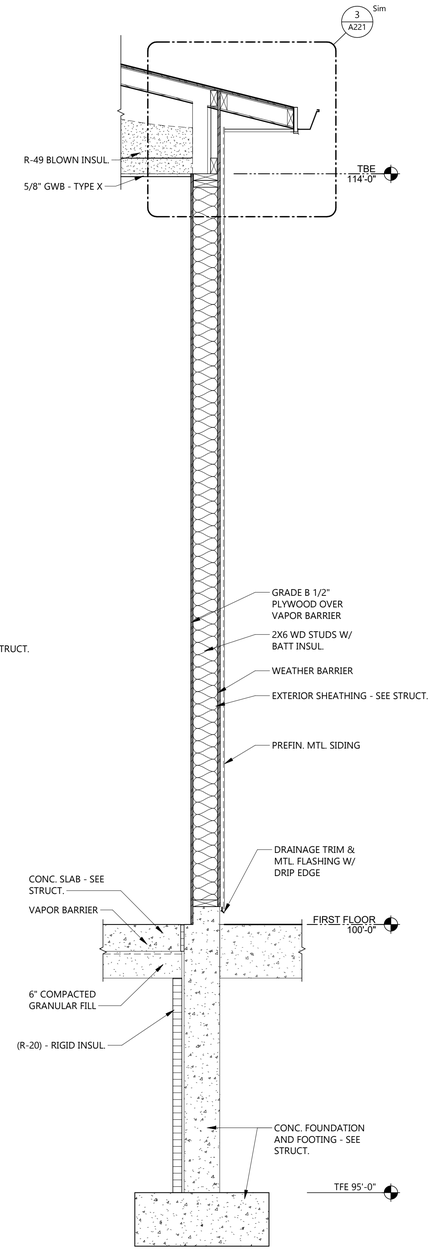
5 A441 WALL SECTION - SOUTH

3/4" = 1'-0"



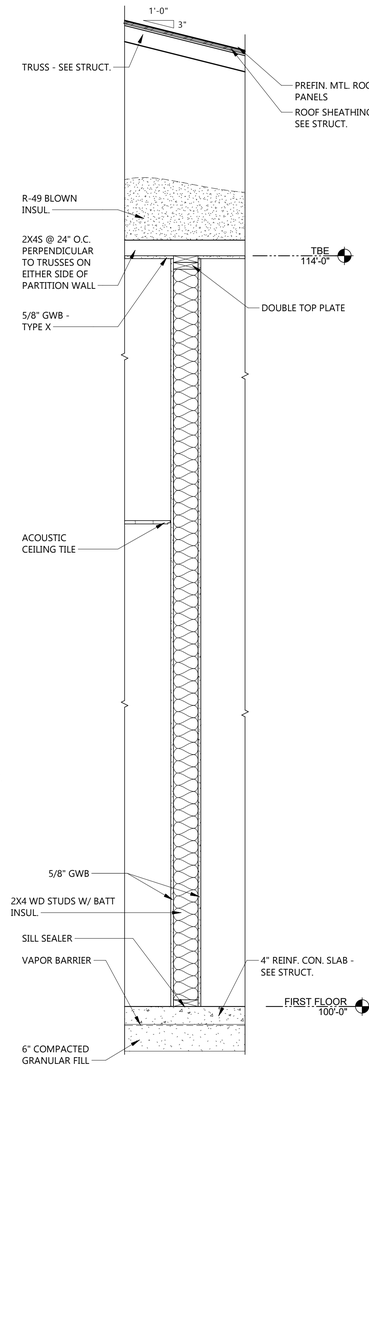
4 A441 WALL SECTION - NORTH

3/4" = 1'-0"



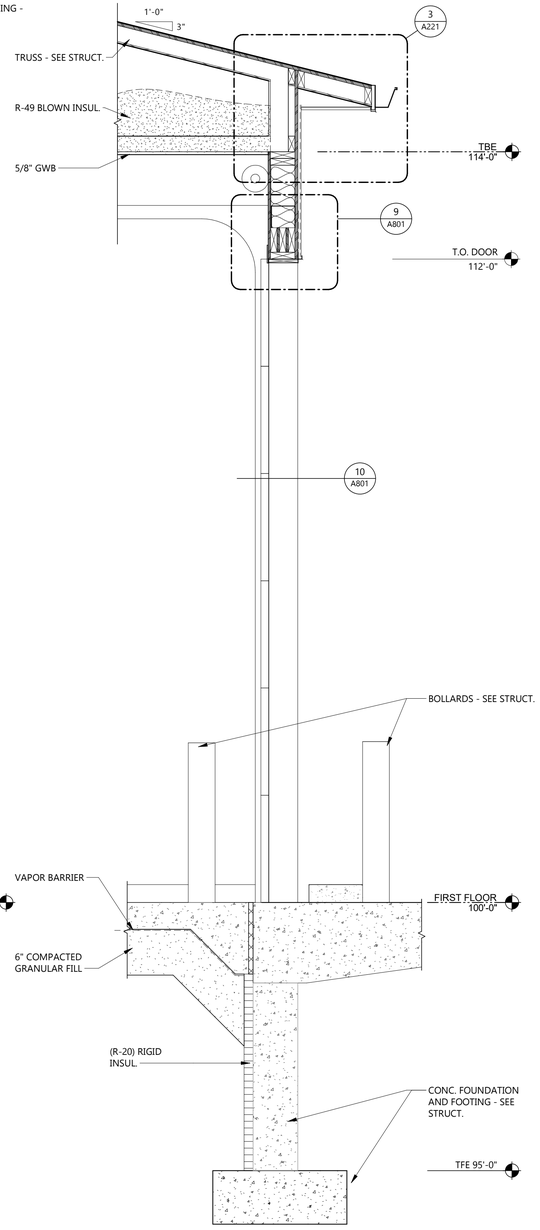
3 A441 WALL SECTION

3/4" = 1'-0"



2 A441 WALL SECTION

3/4" = 1'-0"



1 A441 WALL SECTION

3/4" = 1'-0"

Revit Version: 2025
Plot Date: 12/17/2025, 1:06:24 PM

EAPC
Architecture | Engineering
Interior Design | Industrial
TELEPHONE 701.609.5290
313 Main Street, Suite 200, Williston ND 58801
www.eapc.net

CONSULTANTS

CLIENT
WATFORD CITY PARK DISTRICT

PROJECT DESCRIPTION
PARK SHOP BUILDING

CITY WATFORD CITY
STATE ND

ISSUE DATES

MARK	DESCRIPTION	DATE
CD	RE-BID	05/20/2026

PROJECT NO: 20262250
DRAWN BY: MGB
CHECKED BY: BD

STAMP

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Architect under the laws of the State of North Dakota.
Signature:
Date: 05/20/2026 REG. NO. : 1718

DRAWING TITLE
WALL SECTIONS

A441

ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR	BASE	WALLS NORTH	WALLS EAST	WALLS SOUTH	WALLS WEST	CEILING FINISH	CEILING HEIGHT	NOTES
100	SHOP	CONC.	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	PNT-1	14'-0"	
101	OFFICE	CONC.	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	9'-0"	
102	OFFICE	CONC.	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	9'-0"	
103	BREAK ROOM	CONC.	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	9'-0"	
104	STORAGE	CONC.	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	PNT-1	14'-0"	
105	MECH	CONC.	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	PNT-1	14'-0"	
106	RESTROOM	CONC.	RB-1	FRP-1	FRP-1	FRP-1	FRP-1	ACT-1	8'-0"	

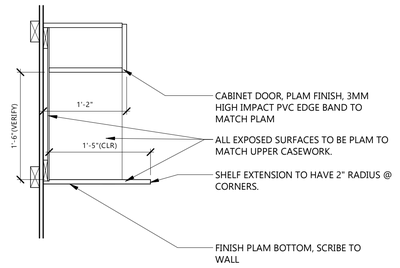
MATERIAL IDENTIFICATION CODES

06 4100	PLAM PLAM-1	ARCHITECTURAL WOOD CASEWORK FORMICA, CASCARA TEAKWOOD 8909-NG
06 6400	FRP FRP-1	PLASTIC PANELING MARLITE ARTIZAN MAX, TBD
08 8000	GL GL-1	GLAZING
09 5100	ACT ACT-1	ACOUSTICAL CEILINGS ARMSTRONG, DUNE 1774, 15/16" ANGLED TEGULAR SUSPENSION SYSTEM: ARMSTRONG, 15/16" PRELUDE
09 6513	RB RB-1	RESILIENT BASE AND ACCESSORIES JOHNSONITE, 4" COVED BASE, BURNT UMBER
09 9123	PNT PNT-1 PNT-2	INTERIOR PAINTING SHERWIN WILLIAMS, FIELD PAINT SHERWIN WILLIAMS, METAL PAINT
10 2600	VARIES CG-1	WALL AND DOOR PROTECTION INPRO, STAINLESS STEEL, 4' WITH 1.5" WING
12 2413	WT WT-1	ROLLER WINDOW SHADES MECHOSHADE, MECHO/5 SINGLE ROLLER, ECOVEIL SHEER 3%, COLOR TBD
12 3661.16	SSF SSF-1	SOLID SURFACE FABRICATION CORIAN, NEUTRAL AGGREGATE (WINDOW SILLS)
12 3623.13	PLAM PLAM-2	PLASTIC-LAMINATE-CLAD COUNTERTOPS

KEYNOTE LEGEND:

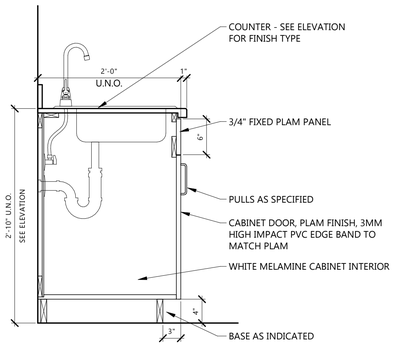
< < < INDICATES KEYNOTE ON PLAN

AE 02	LOCKERS - B.O.
AE 04	REFRIGERATOR - B.O.
AE 05	24X36 MIRROR
AE 06	GRAB BARS
AE 07	TOILET PAPER HOLDER
AE 08	MOP SINK - SEE PLUMB.
AE 12	PAPER TOWEL DISPENSER
AE 13	FREEZER - B.O.
AE 14	MICROWAVE - B.O.
AE 25	H-9279T - PACKING TABLE WITH COMPOSITE WOOD TOP, MFG. ULINE 144"x48"
AE 26	WORK STATION - B.O.
AE 30	WALL HUNG SINK - SEE PLUMB.
AI 01	FRP-1, FULL HT.
AI 02	FRP-1, 4'-0"
AI 03	4" RESILIENT BASE



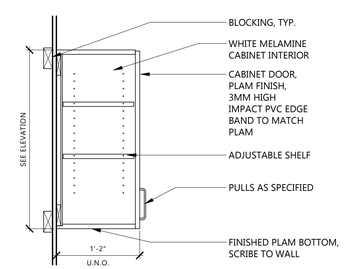
11 A701 — WC - 326 - DOORS W/ MICRO. & VALANCE

1" = 1'-0"



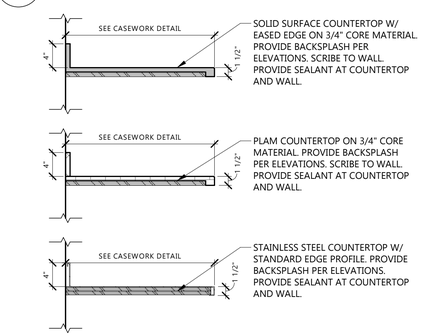
8 A701 — BC - 151/152 - SINK

1" = 1'-0"



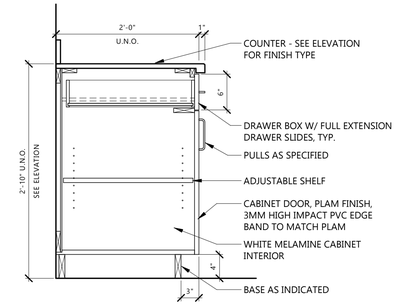
10 A701 — WC - 301/302 - DOOR(S)

1" = 1'-0"



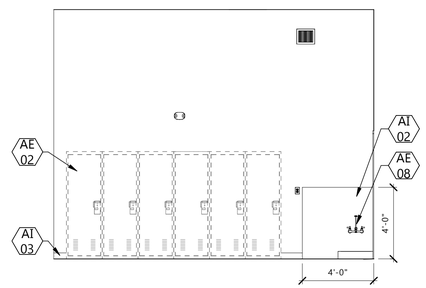
7 A701 — BC - COUNTERTOP SECTIONS

1" = 1'-0"



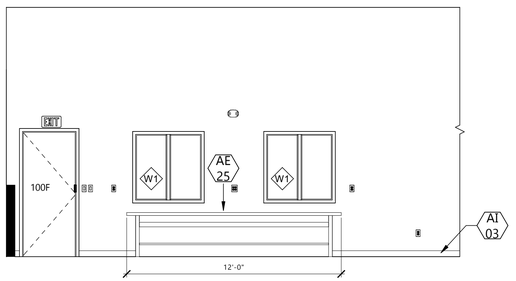
9 A701 — BC - 211/212/222 - DOOR(S) & DRAWER(S)

1" = 1'-0"



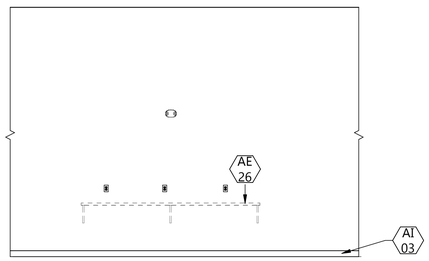
6 A701 — LOCKER ELEVATION

1/4" = 1'-0"



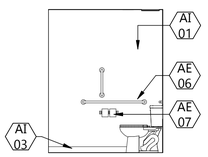
5 A701 — WORKSTATION ELEVATION

1/4" = 1'-0"



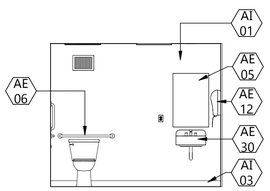
4 A701 — WORKSTATION B.O.

1/4" = 1'-0"



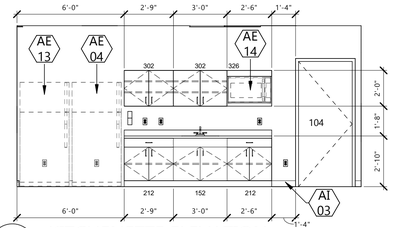
3 A701 — RESTROOM S ELEV

1/4" = 1'-0"



2 A701 — RESTROOM E ELEVATION

1/4" = 1'-0"



1 A701 — KITCHENETTE ELEVATION

1/4" = 1'-0"

EAPC
Architecture | Engineering
Interior Design | Industrial
TELEPHONE 701.609.5290
313 Main Street, Suite 200, Williston ND 58801
www.eapc.net

CONSULTANTS

CLIENT
WATFORD CITY PARK DISTRICT

PROJECT DESCRIPTION
PARK SHOP BUILDING

CITY WATFORD CITY
STATE ND

ISSUE DATES

MARK	DESCRIPTION	DATE
CD	RE-BID	05/20/2026

PROJECT NO: 20262250
DRAWN BY: MGB
CHECKED BY: BD

STAMP

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

Signature:

Date: 05/20/2026 REG. NO. : 1718

DRAWING TITLE
INTERIOR ELEVATIONS, MILLWORK SECTIONS & DETAILS, ROOM FINISH SCHEDULE

A701

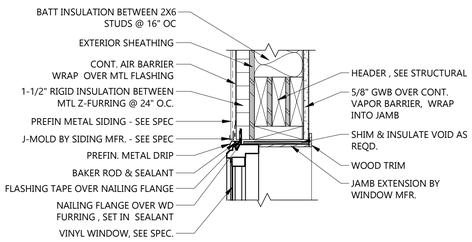
Revit Version: 2025
Plot Date: 5/12/2026, 1:06:36 PM

DOOR SCHEDULE

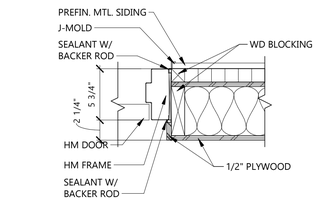
DR #	ROOM NAME	DOOR PANEL(S) OPENING SIZE	MTRL	TYPE	DOOR FRAME MTRL	TYPE	DETAILS - SEE SHEET A801 HEAD	JAMB	SILL	FIRE RATING	HDWE GROUP	NOTES
100A	SHOP	3'-0" x 7'-0"	HM	F	HM	HM-00	7	8	--	--	5	CR, DPS
100B	SHOP	12'-0" x 12'-0"	STL	OHC-S	STL	OHS	9	10	--	--	--	DPS
100C	SHOP	12'-0" x 12'-0"	STL	OHC-S	STL	OHS	9	10	--	--	--	DPS
100D	SHOP	3'-0" x 7'-0"	HM	F	HM	HM-00	7	8	--	--	5	CR, DPS
100F	SHOP	3'-0" x 7'-0"	HM	F	HM	HM-00	7	8	--	--	5	CR, DPS
101	OFFICE	3'-0" x 7'-0"	HM	F	HM	HM-00	5	6	--	--	2	--
102	OFFICE	3'-0" x 7'-0"	HM	F	HM	HM-00	5	6	--	--	2	--
103	BREAK ROOM	3'-0" x 7'-0"	HM	F	HM	HM-00	5	6	--	--	3	--
104	STORAGE	3'-0" x 7'-0"	HM	F	HM	HM-00	5	6	--	--	3	--
105	MECH	3'-0" x 7'-0"	HM	F	HM	HM-00	5	6	--	--	4	--
106	RESTROOM	3'-0" x 7'-0"	HM	F	HM	HM-00	5	6	--	--	1	--
107	SHOP	12'-0" x 12'-0"	STL	OHC-S	STL	OHS	9	10	--	--	--	DPS

DOOR SCHEDULE NOTES

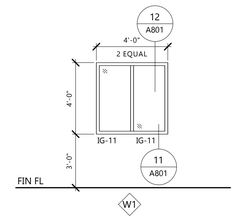
1. CR - CARD ACCESS
2. DPS - DOOR POSITION SWITCH



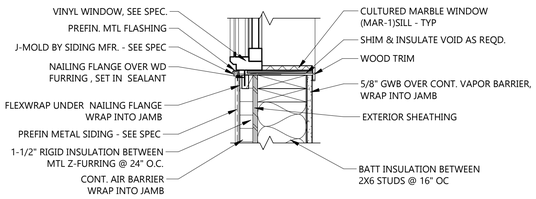
12 A801 VINYL WINDOW HEAD DETAIL
1 1/2" = 1'-0"



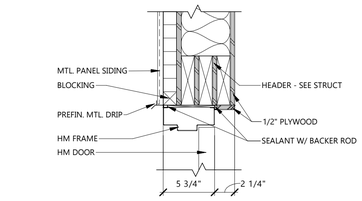
8 A801 HM DOOR JAMB- EXTERIOR
1 1/2" = 1'-0"



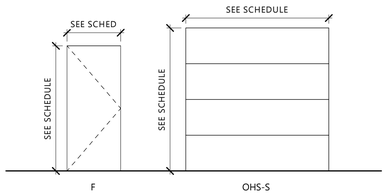
4 A801 WINDOW TYPES
1/4" = 1'-0"



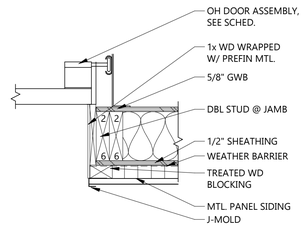
11 A801 VINYL WINDOW SILL DETAIL
1 1/2" = 1'-0"



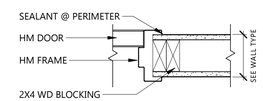
7 A801 HM DOOR HEAD - EXTERIOR
1 1/2" = 1'-0"



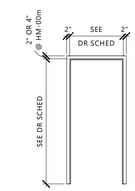
3 A801 DOOR PANEL TYPES
1/4" = 1'-0"



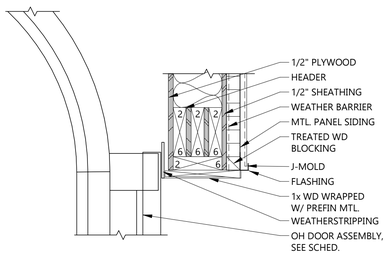
10 A801 OH DOOR JAMB
1 1/2" = 1'-0"



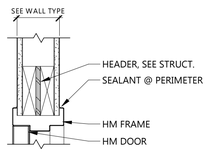
6 A801 HM DOOR JAMB - INTERIOR
1 1/2" = 1'-0"



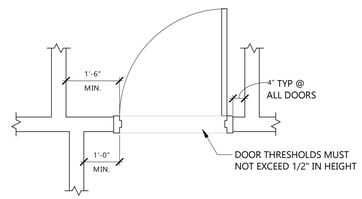
2 A801 DOOR FRAME TYPE
1/4" = 1'-0"



9 A801 OH DOOR HEAD
1 1/2" = 1'-0"



5 A801 HM DOOR HEAD - INTERIOR
1 1/2" = 1'-0"



1 A801 ADA DOOR CLEARANCES
1/2" = 1'-0"

EAPC
Architecture | Engineering
Interior Design | Industrial
TELEPHONE 701.609.5290
313 Main Street, Suite 200, Williston ND 58801
www.eapc.net

CONSULTANTS

CLIENT
WATFORD CITY PARK DISTRICT

PROJECT DESCRIPTION
PARK SHOP BUILDING

CITY WATFORD CITY
STATE ND

ISSUE DATES

MARK	DESCRIPTION	DATE
CD	RE-BID	05/20/2026

PROJECT NO: 20262250
DRAWN BY: MGB
CHECKED BY: BD

STAMP

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Architect under the laws of the State of North Dakota.
Signature:
Date: 05/20/2026 REG. NO. : 1718

DRAWING TITLE
DOOR SCHEDULE, DOOR AND WINDOW ELEVATIONS

A801

Revit Version: 2025
Plot Date: 5/21/2026 1:06:36 PM

ABBREVIATIONS

A	
A/C	AIR CONDITIONING UNIT
AHU	AIR HANDLING UNIT
AFF	ABOVE FINISHED FLOOR
ACCU	AIR COOLED CONDENSING UNIT
B	
BV	BALANCING VALVE
BTU	BRITISH THERMAL UNIT
BOP	BOTTOM OF PIPE
BHP	BRAKE HORSEPOWER
BDD	BACK DRAFT DAMPER
C	
CFM	CUBIC FEET PER MINUTE
CD	CEILING DIFFUSER OR CONDENSATE DRAIN
CC	COOLING COIL
CW	COLD WATER
CT	COOLING TOWER
CP	CONDENSATE PUMP OR CIRCULATING PUMP
CONV	CONVECTOR
CONT	CONTINUATION
CO	CLEANOUT
CLG	COOLING
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
CUH	CABINET HEATER
CO2	CARBON DIOXIDE
D	
DX	DIRECT EXPANSION
DWG	DRAWING
DR	DRAIN
DN	DOWN
DIA Ø	DIAMETER
DB	DRY BULB
DI	DEIONIZED WATER
DS	DOWNSPOUT NOZZLE
DA	DENTAL AIR
DVAC	DENTAL VACUUM
DVEX	DENTAL VACUUM EXHAUST
E	
EA	EXHAUST AIR
EX	EXISTING
EWT	ENTERING WATER TEMPERATURE
EWB	ENTERING WET BULB
EUH	ELECTRIC UNIT HEATER
ET	EXPANSION TANK
EHC	ELECTRIC HEATING COIL
EFF	EFFICIENCY
EF	EXHAUST FAN
EWC	ELECTRIC WATER COOLER
EDB	ENTERING DRY BULB
ECH	ELECTRIC CABINET HEATER
EAT	ENTERING AIR TEMPERATURE
EEW	EMERGENCY EYE WASH
ESH	EMERGENCY SHOWER
ESEW	EMERGENCY SHOWER/EYE WASH
F	
FDC	FIRE DEPARTMENT CONNECTION
FD	FLOOR DRAIN OR FIRE DAMPER
FC	FLEXIBLE CONNECTION
°F	DEGREES FAHRENHEIT
FU	FIXTURE UNIT
FTR	FIN TUBE RADIATION
FT	FEET
F/S	COMBINATION FIRE AND SMOKE DAMPER
FS	FLOW SWITCH OR FLOOR SINK
FP	FUEL OIL PUMP OR FIRE PUMP
FOV	FUEL OIL VENT PIPING
FOS	FUEL OIL SUPPLY PIPING
FOR	FUEL OIL RETURN PIPING
FLR	FLOOR
FLA	FULL LOAD AMPERES
G	
GAL	GALLONS
G	NATURAL GAS OR PROPANE GAS
GV	GATE VALVE
GPM	GALLONS PER MINUTE
H	
HB	HOSE BIBB
HW	HOT WATER
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HC	HEATING COIL
HP	HORSEPOWER
HX	HEAT EXCHANGER
I	
IN	INCHES
ID	INSIDE DIMENSION
IA	INSTRUMENT AIR

ABBREVIATIONS

J	
JP	JOCKEY PUMP
L	
LWT	LEAVING WATER TEMPERATURE
LVR	LOUVER
LBS	POUNDS
LAT	LEAVING AIR TEMPERATURE
L	LAVATORY
LA	LAB AIR
M	
MAU	MAKE UP AIR UNIT
MS	MOP SINK
MOD	MOTOR OPERATED DAMPER
MIN	MINIMUM
MCC	MOTOR CONTROL CENTER
MBH	THOUSAND BTU PER HOUR
MAT	MIXED AIR TEMPERATURE
MAX	MAXIMUM
MA	MEDICAL AIR
MA IN	MEDICAL AIR INTAKE
MB	MOP BASIN
MCA	MINIMUM CIRCUIT AMPACITY
MOP	MAXIMUM OVERCURRENT PROTECTION
N	
NTS	NOT TO SCALE
NO	NORMALLY OPEN
NIC	NOT IN CONTRACT
NC	NORMALLY CLOSED
N2O	NITROUS OXIDE
N	NITROGEN
O	
OS&Y	OUTSIDE SCREW & YOKE GATE VALVE
ORL	OVERFLOW RAIN LEADER PIPING
OD	OUTSIDE DIMENSION
OBD	OPPOSED BLADE DAMPER
OA	OUTSIDE AIR
OX	OXYGEN
ORD	OVERFLOW ROOF DRAIN
P	
PSIG	POUNDS PER SQUARE INCH (GAUGE)
PSI	POUNDS PER SQUARE INCH
PRV	PRESSURE REDUCING VALVE OR POWER ROOF VENT
PHC	PREHEAT COIL
PG	PRESSURE GAUGE
PD	PRESSURE DROP OR PUMP DISCHARGE
P	PUMP
POT	POTABLE WATER
R	
RHW	RECIRCULATING HOT WATER
RTU	ROOF TOP UNIT
RPM	REVOLUTIONS PER MINUTE
RAF	RETURN AIR FAN OR RELIEF AIR FAN
RD	ROOF DRAIN
RA	RETURN AIR
RO	REVERSE OSMOSIS WATER
RL	RAIN LEADER
S	
SPKR	SPRINKLER
SP	STATIC PRESSURE OR SUMP PUMP
SF	SUPPLY FAN OR SQUARE FEET
SENS	SENSIBLE
SEP	SEWAGE EJECTOR PUMP
SD	SMOKE DAMPER OR SMOKE DETECTOR
SA	SUPPLY AIR
S	SINK
SS	SERVICE SINK
T	
TYP	TYPICAL
TOP	TOP OF PIPE
TC	TERMINAL COIL
U	
U	URINAL
UH	UNIT HEATER
V	
VTR	VENT THRU ROOF
VD	VOLUME DAMPER
VAV	VARIABLE AIR VOLUME TERMINAL UNIT
VFD	VARIABLE FREQUENCY DRIVE
V	VENT
VAC	MEDICAL VACUUM
V EX	VACUUM EXHAUST
W	
WHY	WALL HYDRANT
WC	WATER CLOSET
WB	WET BULB
W	SANITARY WASTE
WAGD	WASTE ANESTHESIA GAS DISPOSAL
WH	WATER HEATER

LEGEND

18"x12"	DUCT SIZE (CLEAR INSIDE DIMENSION) FIRST FIGURE INDICATES PLAN SIZE
18"Ø	ROUND DUCT DIAMETER SIZE
18"x12"Ø	OVAL DUCT SIZE (CLEAR INSIDE DIMENSION) FIRST FIGURE INDICATES PLAN SIZE
	FLEXIBLE DUCT
	BALANCING DAMPER (VD) VOLUME DAMPER IN DUCT (BDD) BACK DRAFT DAMPER
F/S RD FD SD	(F/S) COMBINATION FIRE SMOKE DAMPER (RD) RADIATION DAMPER, (FD) FIRE DAMPER (SD) SMOKE DAMPER
	ELBOW WITH TURNING VANES
	BRANCH TAKEOFF WITH VOLUME DAMPER
	RADIUS ELBOW
	SLOT DIFFUSER
ACCESS AREA	TERMINAL UNIT WITH HEATING COIL
	SUPPLY CEILING DIFFUSER
	RETURN REGISTER OR GRILLE
	EXHAUST REGISTER OR GRILLE

RECTANGULAR SUPPLY DUCT UP	SUPPLY AIR DUCT	RECTANGULAR SUPPLY DUCT DOWN
ROUND SUPPLY DUCT UP		ROUND SUPPLY DUCT DOWN
RECTANGULAR RETURN DUCT UP	RETURN AIR DUCT	RECTANGULAR RETURN DUCT DOWN
ROUND RETURN DUCT UP		ROUND RETURN DUCT DOWN
RECTANGULAR EXHAUST DUCT UP	EXHAUST AIR DUCT	RECTANGULAR EXHAUST DUCT DOWN
ROUND EXHAUST DUCT UP		ROUND EXHAUST DUCT DOWN
RECTANGULAR OUTSIDE AIR DUCT UP	OUTSIDE AIR DUCT	RECTANGULAR OUTSIDE AIR DUCT DOWN
ROUND OUTSIDE AIR DUCT UP		ROUND OUTSIDE AIR DUCT DOWN

T_2	THERMOSTAT WITH ZONE OR EQUIPMENT DESIGNATION
H	HUMIDISTAT

LEGEND

	RELIEF VALVE
	ARROW INDICATES DIRECTION OF FLOW
	AIR VENT
	AUTOMATIC 2-WAY CONTROL VALVE
	AUTOMATIC 3-WAY CONTROL VALVE
	AUTOMATIC FLOW CONTROL VALVE
	BACK FLOW PREVENTER-RPZ
	BALANCING VALVE
	BALL VALVE
	BOTTOM PIPE CONNECTION
	BUTTERFLY VALVE
	CAPPED PIPE WITH SHUT-OFF VALVE
	CHECK VALVE, FLOW DIRECTION
	CONCENTRIC REDUCER
	DIRT POCKET
	EXTERIOR WALL HYDRANT, FROST FREE
	FLOOR CLEANOUT/GRADE CLEANOUT
	FLOW MEASURING STATION
	GAS PRESSURE REGULATOR
	GATE VALVE
	GLOBE VALVE
	HOSE BIBB
	OS&Y (OUTSIDE SCREW & YOKE) VALVE
	PIPE ANCHOR
	PIPE DOWN
	PIPE EXPANSION JOINT
	PIPE GUIDE
	PIPE UP
	PIPING FLEXIBLE CONNECTION
P	PRESSURE GAUGE AND GAUGE COCK
	PRESSURE REDUCING VALVE (PRV)
	PUMP
	SHOCK ABSORBER/WATER HAMMER ARRESTOR
	SLEEVE
	SOLENOID VALVE
	STEAM TRAP
T	TEMPERATURE SENSOR
	THERMOMETER
	TOP PIPE CONNECTION
	UNION
	VACUUM BREAKER
	WALL CLEANOUT
	"Y" TYPE STRAINER
	"Y" TYPE STRAINER WITH HOSE END BLOW OFF VALVE
	ZONE VALVE

LEGEND

A	COMPRESSED AIR LINE
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	DOMESTIC HOT WATER CIRCULATION
ORL	OVERFLOW RAIN LEADER PIPING
ORL	OVERFLOW RAIN LEADER PIPING (BELOW GRADE)
RL	RAIN LEADER PIPING
RL	RAIN LEADER PIPING (BELOW GRADE)
RO	REVERSE OSMOSIS WATER
DI	DEIONIZED WATER
	SANITARY WASTE, UNDERGROUND (AW - ACID WASTE UNDERGROUND)
	SANITARY WASTE, ABOVE GRADE (AW - ACID WASTE ABOVE GRADE)
	VENT PIPING (AV-ACID VENT)
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
COND	CONDENSATE DRAIN OR RETURN
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
CTR	COOLING TOWER RETURN
CTS	COOLING TOWER SUPPLY
FOR	FUEL OIL RETURN PIPING
FOS	FUEL OIL SUPPLY PIPING
FOV	FUEL OIL VENT PIPING
HPR	HEAT PUMP RETURN
HPS	HEAT PUMP SUPPLY
HWR	HEATING WATER RETURN
HWS	HEATING WATER SUPPLY
HPC	HIGH PRESSURE CONDENSATE RETURN
G	NATURAL GAS PIPING
PC	PUMPED CONDENSATE RETURN
STM-HPR	STEAM HIGH PRESSURE RETURN
STM-HPS	STEAM HIGH PRESSURE SUPPLY
STM-MPS	MEDIUM PRESSURE STEAM
STM-LPS	STEAM LOW PRESSURE SUPPLY
WLR	WELLFIELD LOOP RETURN
WLS	WELLFIELD LOOP SUPPLY
L	REFRIGERANT PIPING LIQUID
S	REFRIGERANT PIPING SUCTION
BF	BOILER FEED

MEDICAL GAS

CO2	CARBON DIOXIDE
IA	INSTRUMENT AIR
MA	MEDICAL AIR
VAC	MEDICAL VACUUM
N	NITROGEN
N2O	NITROUS OXIDE
OX	OXYGEN
WAGD	WASTE ANESTHESIA GAS DISPOSAL
LA	LAB AIR
MA-IN	MEDICAL AIR INTAKE
V-EX	VACUUM EXHAUST
DA	DENTAL AIR
DVAC	DENTAL VACUUM

FIRE PROTECTION

	SPRINKLER HEAD - DRY PENDANT SPRINKLER
	SPRINKLER HEAD - CONCEALED PENDANT SPRINKLER
	SPRINKLER HEAD - PENDANT WITH GUARD
	SPRINKLER HEAD - UPRIGHT
	SPRINKLER HEAD - PENDANT SPRINKLER

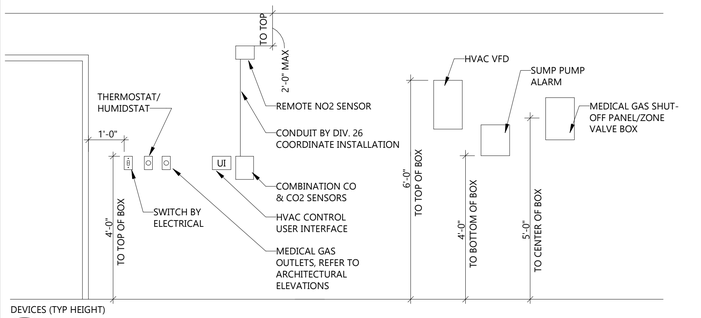
SYMBOLS

EWC	ELECTRIC WATER COOLER
MB	MOP BASIN
L	LAVATORY
S	SINK
U	URINAL
WC	WATER CLOSET
FS FD	FLOOR SINK FLOOR DRAIN
	HATCH INDICATES ITEM(S) TO BE REMOVED
	POINT OF CONNECTION (NEW TO EXISTING) POINT OF DEMOLITION
1 / M2.1	DETAIL DESIGNATION — DETAIL NUMBER / DRAWING NUMBER
2 / M3.1	SECTION DESIGNATION — SECTION NUMBER / DRAWING NUMBER
XX / XX	SHEET / CONSTRUCTION NOTE NUMBER
1	REVISION NUMBER
NO. S-1 / 100 / 2	S-SUPPLY, R-RETURN, E-EXHAUST, T-TRANSFER CFM QUANTITY IN ROOM OR HEIGHT AFF

GENERAL NOTES

1. MECHANICAL CONTRACTOR SHALL REFER TO THE PROJECT SPECIFICATION MANUAL ALONG WITH ANY APPLICABLE CODES AND STANDARDS. ALL REQUIREMENTS WITHIN THOSE MANUALS SHALL BE MAINTAINED IN ADDITION TO ALL NOTES AND DESCRIPTIONS INDICATED WITHIN THESE DRAWINGS. ANY CONFLICT BETWEEN THESE DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR INTERPRETATION, OTHERWISE MECHANICAL CONTRACTOR SHALL ASSUME WORST CASE FOR COST OR DISRUPTION.
2. PLANS ARE FURNISHED IN COLOR, PLANS MAY NOT PRINT CORRECTLY IF PRINTED IN BLACK AND WHITE. CONTRACTOR TO REQUEST A BLACK AND WHITE PLAN SET IF THEY INTEND TO PRINT DRAWINGS IN BLACK AND WHITE.

PLUMBING & MECHANICAL SHEET INDEX



1 / PM01 TYPICAL HVAC DEVICE MOUNTING HEIGHT

NOT TO SCALE

EAPC
Architecture | Engineering
Interior Design | Industrial
TELEPHONE 701.609.5290
313 Main Street, Suite 200, Williston ND 58801
www.eapc.net

CONSULTANTS

CLIENT
WATFORD CITY PARK DISTRICT

PROJECT DESCRIPTION
WATFORD CITY PARK SHOP

CITY WATFORD CITY
STATE ND

ISSUE DATES

CD	RE-BID	05/20/2026
MARK	DESCRIPTION	DATE

PROJECT NO: 20262250
DRAWN BY: SR
CHECKED BY: BF

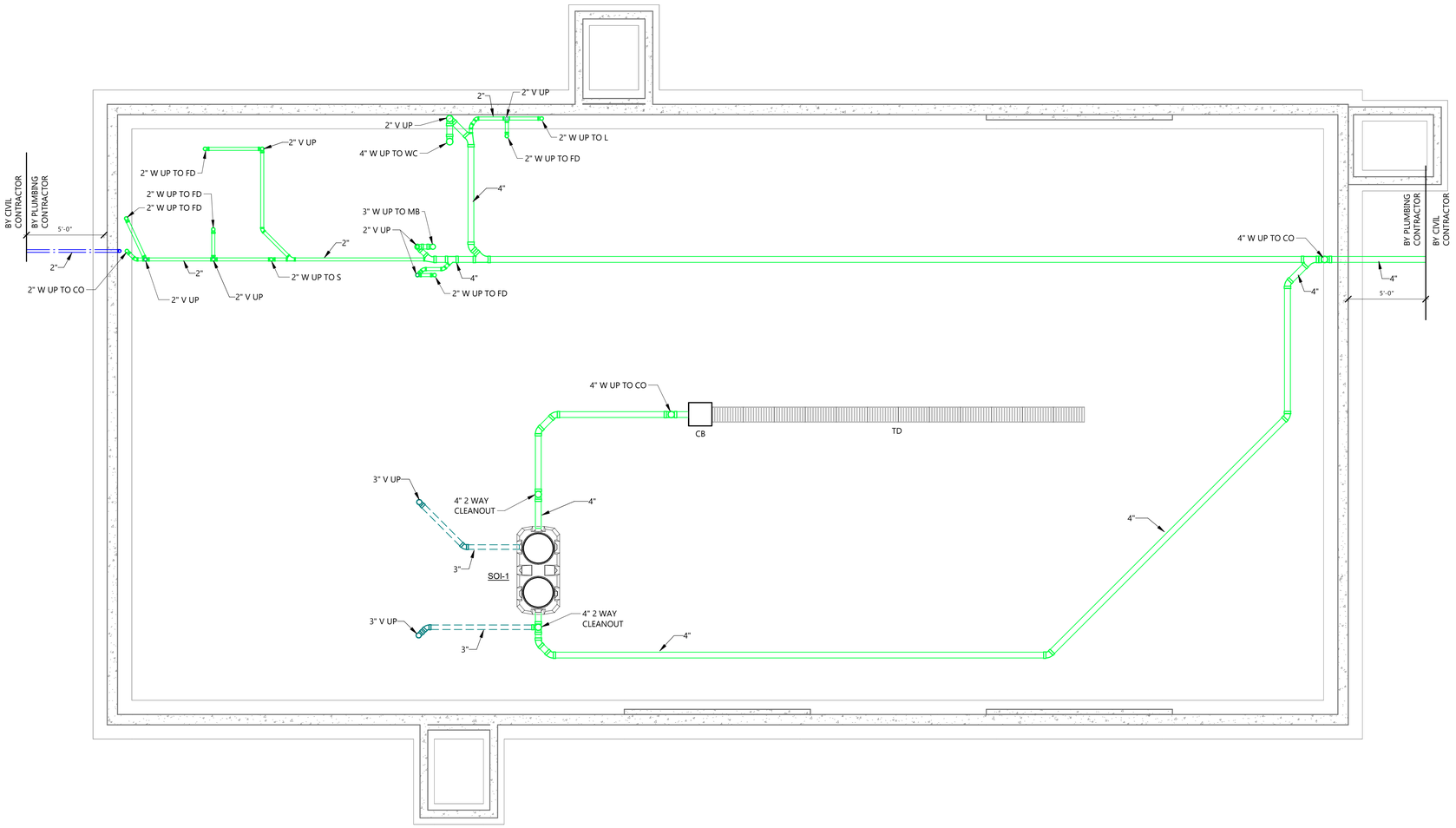
STAMP

REGISTERED PROFESSIONAL ENGINEER
TYLER COULOMBE
PE-7492
DATE 05/20/2026
NORTH DAKOTA

DRAWING TITLE
MECHANICAL SYMBOLS & LEGEND SHEET

PM01

Revit Version: 2026
Print Date: 5/20/2026, 12:45:42 PM



1 P200 UNDERGROUND PLUMBING PLAN

1/4" = 1'-0"

N

Revit Version: 2025
Print Date: 5/19/2026 12:43:48 PM

EAPC
Architecture | Engineering
Interior Design | Industrial
TELEPHONE 701.609.5290
313 Main Street, Suite 200, Williston ND 58801
www.eapc.net

CONSULTANTS

CLIENT
WATFORD CITY PARK DISTRICT

PROJECT DESCRIPTION
WATFORD CITY PARK SHOP

CITY WATFORD CITY
STATE ND

ISSUE DATES

MARK	DESCRIPTION	DATE
CD	RE-BID	05/20/2026

PROJECT NO: 20262250
DRAWN BY: SR
CHECKED BY: JL

STAMP

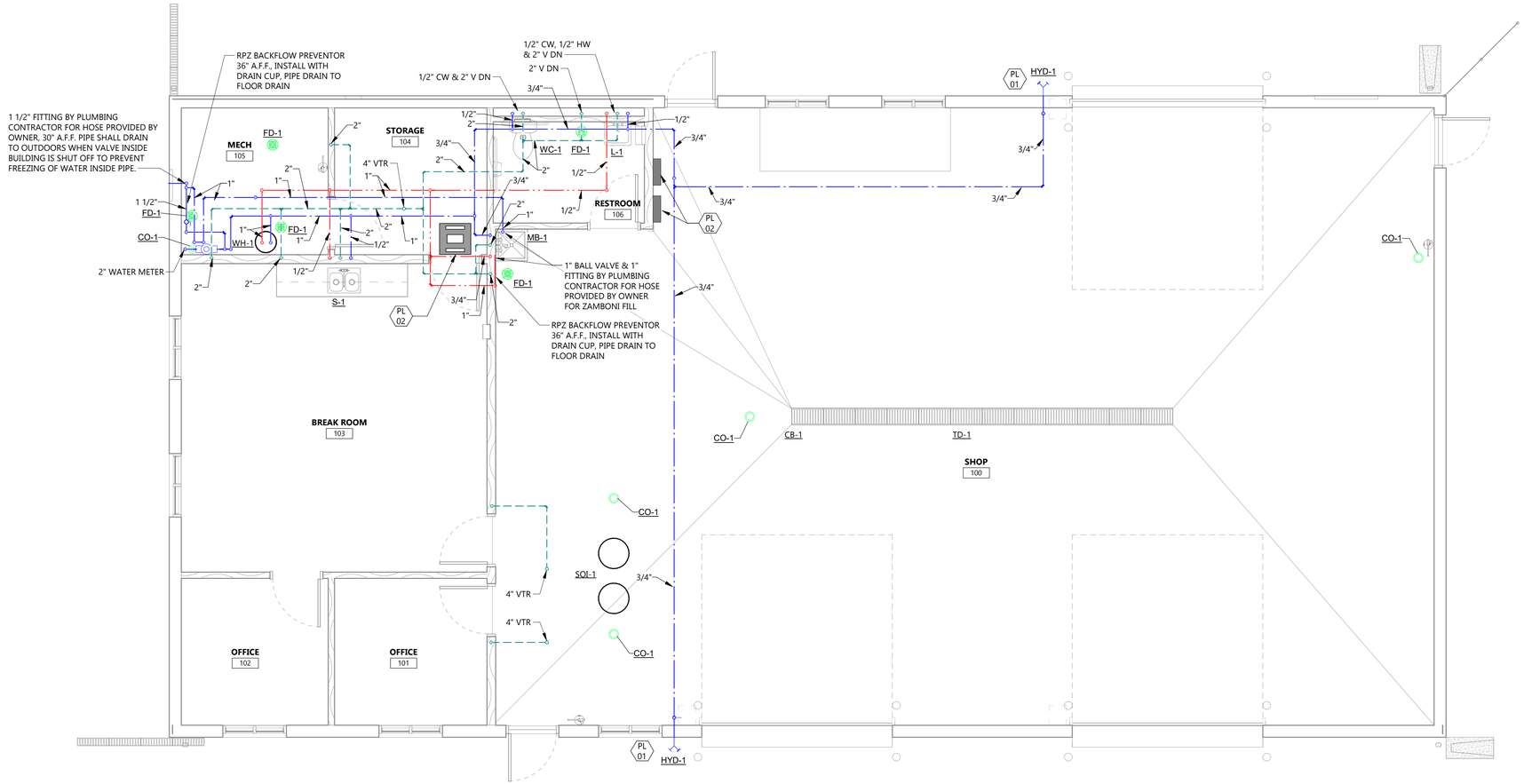
REGISTERED PROFESSIONAL ENGINEER
TYLER COULOMBE
PE-7492
DATE 05/20/2026
NORTH DAKOTA

DRAWING TITLE
UNDERGROUND PLUMBING PLAN

P200

KEYNOTE LEGEND:

< < <	INDICATES KEYNOTE ON PLAN
PL 01	INSTALL WITH ACCESSIBLE BALL VALVE 48" A.F.F.
PL 02	ALL PLUMBING SHALL AVOID RUNNING ABOVE ELECTRICAL EQUIPMENT.



1 / P201 — FIRST FLOOR PLUMBING PLAN

1/4" = 1'-0"

N

Revit Version: 2025
Plot Date: 5/18/2026 12:43:49 PM

EAPC

Architecture	Engineering
Interior Design	Industrial

TELEPHONE 701.609.5290
313 Main Street, Suite 200, Williston ND 58801
www.eapc.net

CONSULTANTS

CLIENT
WATFORD CITY PARK DISTRICT

PROJECT DESCRIPTION
WATFORD CITY PARK SHOP

CITY WATFORD CITY
STATE ND

ISSUE DATES

MARK	DESCRIPTION	DATE
CD	RE-BID	05/20/2026

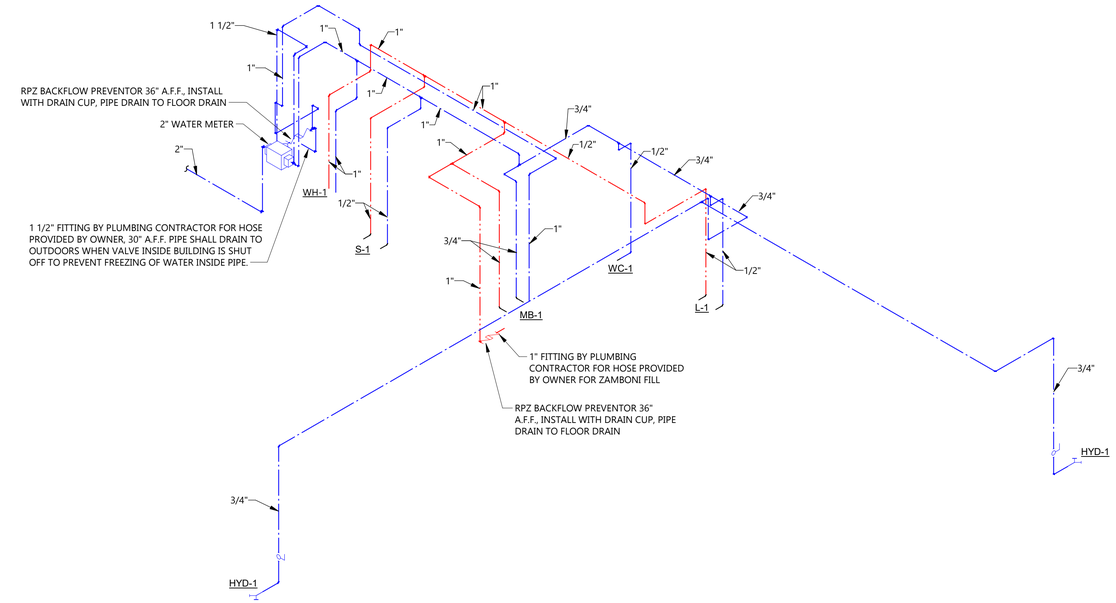
PROJECT NO: 20262250
DRAWN BY: SR
CHECKED BY: JL

STAMP

REGISTERED PROFESSIONAL ENGINEER
TYLER COULOMBE
PE-7492
DATE 05/20/2026
NORTH DAKOTA

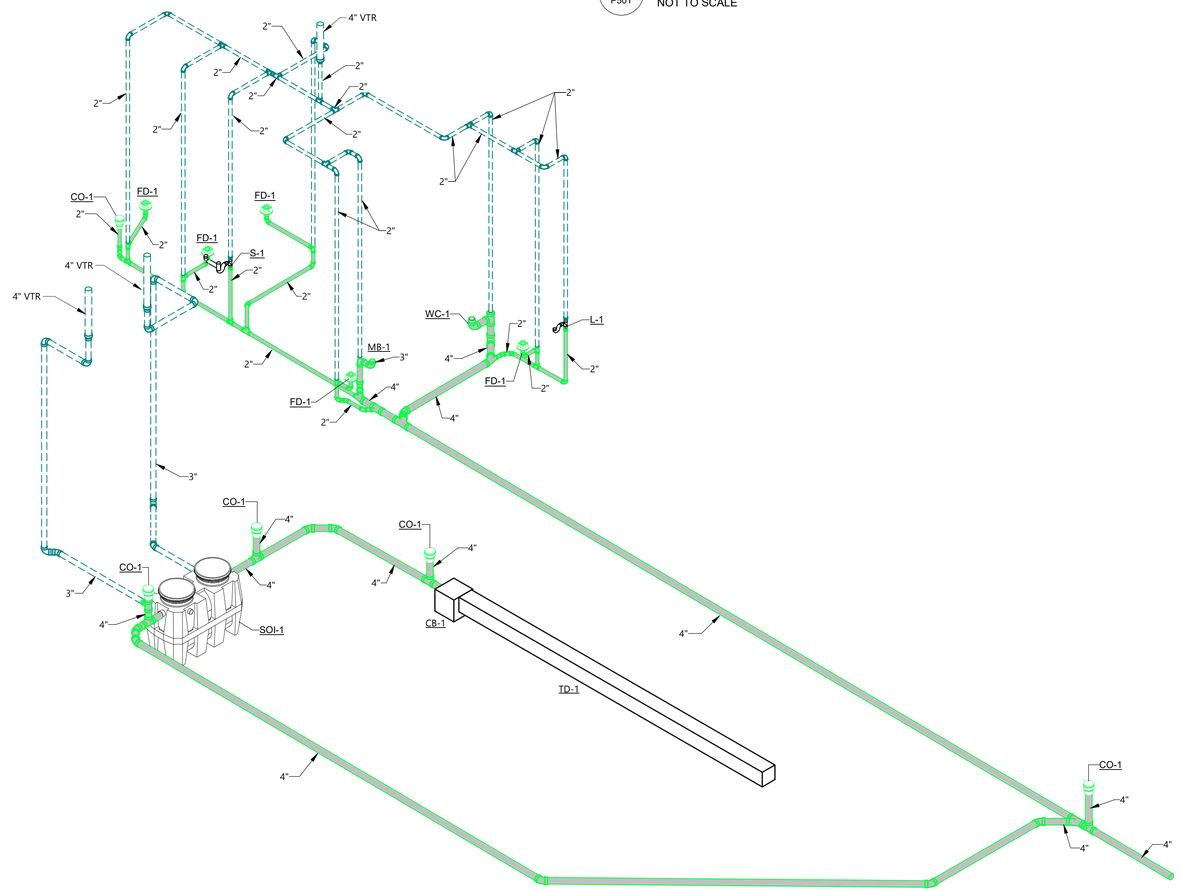
DRAWING TITLE
FIRST FLOOR PLUMBING PLAN

P201



2 P501 **DOMESTIC WATER RISER**

NOT TO SCALE



1 P501 **WASTE & VENT RISER**

NOT TO SCALE

Revit Version: 2025
Plot Date: 5/18/2026 12:43:51 PM

EAPC

Architecture	Engineering
Interior Design	Industrial

TELEPHONE 701.609.5290
313 Main Street, Suite 200, Williston ND 58801
www.eapc.net

CONSULTANTS

CLIENT
WATFORD CITY PARK DISTRICT

PROJECT DESCRIPTION
WATFORD CITY PARK SHOP

CITY WATFORD CITY
STATE ND

ISSUE DATES

MARK	DESCRIPTION	DATE
CD	RE-BID	05/20/2026

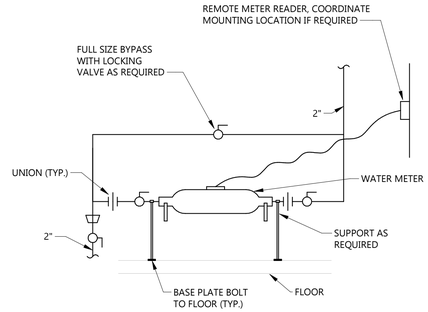
PROJECT NO: 20262250
DRAWN BY: SR
CHECKED BY: JL

STAMP

REGISTERED PROFESSIONAL ENGINEER
TYLER COULOMBE
PE-7492
DATE05/20/2026
NORTH DAKOTA

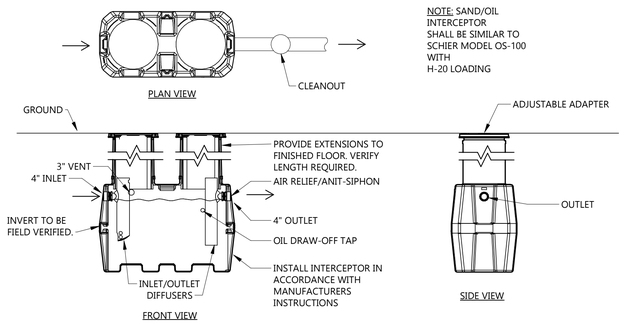
DRAWING TITLE
RISERS

P501

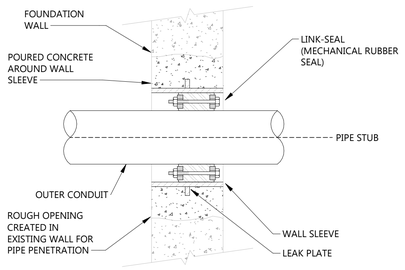


NOTES:
1. PLUMBING CONTRACTOR SHALL PROVIDE 3/4" THICK CLOSED CELL INSULATION AROUND WATER METER. INSULATION SHALL BE SIMILAR TO ARMAFLEX AP.
2. PIPE DRAINS TO COVER FLOOR DRAINS.

5 P601 WATER METER DETAIL
NOT TO SCALE

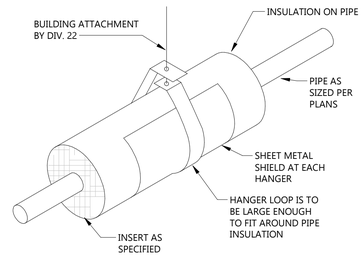


4 P601 SAND/OIL INTERCEPTOR DETAIL
NOT TO SCALE

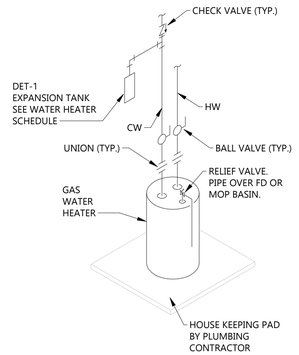


1. CORE DRILL ROUGH OPENING IN FOUNDATION WALL FOR PIPE PENETRATION. OPENING SHOULD BE ROUGHLY TWICE THE OUTSIDE DIAMETER OF THE LINK SEAL WALL SLEEVE.
2. INSERT WALL SLEEVE IN PLACE, POUR CONCRETE AROUND THE SLEEVE TO SECURE INTO WALL.
3. MECHANICAL CONTRACTOR SHALL FIELD VERIFY LINK SEAL SIZES FOR STEAM AND CONDENSATE PIPING.
4. LEAK PLATE IS APPROXIMATELY 2" IN LENGTH. FOR LEAK PLATE O.D. ADD 4" TO STEEL WALL SLEEVE O.D. DIMENSION.

3 P601 LINK SEAL DETAIL
NOT TO SCALE



2 P601 TYPICAL PIPE HANGER DETAIL
NOT TO SCALE



1 P601 WATER HEATER
NOT TO SCALE

EAPC
Architecture | Engineering
Interior Design | Industrial
TELEPHONE 701.609.5290
313 Main Street, Suite 200, Williston ND 58801
www.eapc.net

CONSULTANTS

CLIENT
WATFORD CITY PARK DISTRICT

PROJECT DESCRIPTION
WATFORD CITY PARK SHOP

CITY WATFORD CITY
STATE ND

ISSUE DATES

MARK	DESCRIPTION	DATE
CD	RE-BID	05/20/2026

PROJECT NO: 20262250
DRAWN BY: CBL
CHECKED BY: JL

STAMP

REGISTERED PROFESSIONAL ENGINEER
TYLER COULOMBE
PE-7492
DATE05/20/2026
NORTH DAKOTA

DRAWING TITLE
PLUMBING DETAILS

P601

Revit Version: 2025
Print Date: 05/20/26 12:43:52 PM

PLUMBING FIXTURE SCHEDULE

ITEM NO.	MANUFACTURER	MODEL NO.	DESCRIPTION	FLOW RATE	CONNECTIONS - INCHES				REMARKS
					WASTE	VENT	CW	HW	
CB-1	ZURN	Z887-12	12"X24" CATCH BASIN, MADE OF 0% WATER ABSORBENT HDPE, CLASS E HEEL PROOF GRATE SHALL MECHANICALLY LOCK INTO CONCRETE SURROUND EVERY 10"		4"				
CO-1	ZURN	Z1400	CAST IRON BODY, ADJUSTABLE COLLAR, NICKEL BRONZE TOP, ABS TAPERED PLUG		VARIES				SEE PLANS FOR PIPE SIZES
FD-1	ZURN	Z415B	CAST IRON BODY, ADJUSTABLE COLLAR, NICKEL BRONZE ROUND STRAINER		VARIES	VARIES			PROVIDE DEEP SEAL P-TRAP 'SEE PLANS FOR PIPE SIZES
HYD-1	WOODFORD	19	FREEZELESS, ANTI-SIPHON, WALL FAUCET, 3/4" MALE HOSE THREAD NOZZLE ASSE 1019 DEVICE, SHALL NOT BE SUBJECTED TO MORE THAN 12 HOURS CONTINUOUS USE				3/4"		
L-1	AMERICAN STANDARD	355.012	WALL-HUNG, VITREOUS CHINA, FRONT OVERFLOW D-SHAPED BOWL SELF-DRAINING DECK AREA WITH CONTOURED BACK & SIDE SHIELDS		2"	2"			
	CHICAGO FAUCETS	420-T41ABCP	DECK MOUNTED 4" FIXED CENTERS, CERAMIC MIXING CARTRIDGE ASSE 1070 THERMOSTATIC MIXING SINK FAUCET	1.5 GPM			1/2"	1/2"	INSTALL WITH CARRIER
MB-1	MUSTEE	63M	ONE PIECE MOLDED FROM HIGH IMPACT RESISTANT STRUCURAL FIBERGLASS INTEGRAL, MOLDED IN DRAIN, MARBLEIZED WHITE FINISH		3"	2"			
	CHICAGO FAUCETS	897-RCF	WALL-MOUNTED MANUAL FAUCET W/ 8" CENTERS, INTEGRAL SUPPLY STOPS VANDAL PROOF 2 3/8" LEVER HANDLE, CERAMIC 1/4-TURN CARTRIDGE				3/4"	3/4"	
S-1	ELKAY	LR3321PD	DOUBLE BOWL 304 STAINLESS STEEL 33" X 21 1/4" X 7 7/8" DROP IN SINK LUSTROUS HIGHLIGHTED SATIN, CENTER DRAIN		2"	2"			
	CHICAGO FAUCETS	431-ABCP	DECK- MOUNTED MANUALFAUCET W/ 8" CENTERS SWING SPOUT, VANDAL PROOF LEVER HANDLE	1.5 GPM			1/2"	1/2"	
	WATTS	LFUSG-B	LEAD FREE BRASS BODY, ASSE 1070 THERMOSTATIC MIXING VALVE						OUTLET TEMPERATURE NOT TO EXCEED 120 DEGREES FAHRENHEIT
SOI-1	STRIEM	OS-100	4" PLAIN END INLET/OUTLET, 3" PLAIN END VENTS, CERTIFIED MAX FLOW 100 GPM LIQUID CAPACITY 250 GALLONS, OIL CAPACITY 62.5 GALLONS SOLIDS CAPACITY, 95 GALLONS		4"	3"			
TD-1	ZURN	Z882	CHANNELS SHALL BE 96" LONG 12" WIDE REVEAL & HAVE A 9 1/4" THROAT MADE OF 0% WATER ABSORBENT HDPE, CLASS E HEEL PROOF GRATE		4"				
WC-1	AMERICAN STANDARD	215AA.004	VITREOUS CHINA, POWERWASH RIM SCRUBS BOWL W/ EACH FLUSH 16 1/2" ACCESSIBLE HEIGHT, FULLY-GLAZED 2 1/8" TRAPWAY	1.6 GPM	4"	2"	1/2"		
	BEMIS	1955SSCT	ELONGATED, PLASTIC, OPEN FRONT LESS COVER, SULF SUSTAINING HINGES						

NOTES:

1. PROVIDE COLD WATER AND HOT WATER SCREWDRIVER STOPS AT ALL SINKS, LAVATORIES, ELECTRIC WATER COOLERS, ETC.
2. ALL WATER SUPPLIES AND STOPS SHALL BE INSTALLED SECURE TO BACKING IN WALL OR SUPPLY STRAPS AS REQUIRED FOR A SECURE, RIGID INSTALLATION.
3. PROVIDE ESCUTCHEONS AT ALL WASTE AND WATER SUPPLIES AT EACH FIXTURE. ESCUTCHEONS SHALL COMPLETELY COVER WALL OPENING.
4. ALL WALL HUNG WATER CLOSETS, URINALS AND LAVATORIES SHALL BE CAULKED/SEALED ALL AROUND INCLUDING THE UNDERSIDE. FLOOR MOUNTED. WATER CLOSETS SHALL NOT BE CAULKED/SEALED TO FLOOR.
5. ALL COUNTER MOUNTED FIXTURES SHALL BE CAULKED/SEALED AS PER THE MANUFACTURERS INSTRUCTIONS.
6. COORDINATE ALL SELF RIMMING LAVATORIES AND SINKS WITH GENERAL CONTRACTOR AND CASEWORK SUPPLIER FOR FIT.
7. ALL A.D.A. COMPLIANT WATER CLOSETS SHALL HAVE FLUSHING MECHANISM TO OPEN SIDE OF ROOM OR STALL.
8. ALL EXPOSED P-TRAPS AND WATER SUPPLIES AT A.D.A. ACCESSIBLE LOCATIONS SHALL BE PROVIDED WITH PROTECTIVE SHIELD OR COVERS AS SPECIFIED.

LEGEND

WC = WATER CLOSET	
U = URINAL	EWS = EYEWASH STATION
L = LAVATORY	HYD = HYDRANT
S = SINK	HB = HOSE BIB
B = BATHTUB	TD = TRENCH DRAIN
SH = SHOWER	FS = FLOOR SINK
MB = MOP BASIN	FD = FLOOR DRAIN
LT = LAUNDRY TUB	CO = CLEANOUT
EWC = ELEC. WATER COOLER	WCO = WALL CLEANOUT
WT = WASHER TRIM	RD = ROOF DRAIN
DB = DRAIN BOX	ORD = OVERFLOW ROOF DRAIN
WB = WATER OUTLET BOX	DT = DRAIN TROUGH
CB = CONDENSATE BOX	SOI = SAND OIL INTERCEPTOR
MV = MIXING VALVE	GI = GREASE INTERCEPTOR

WATER HEATER SCHEDULE

TAG	MANUFACTURER	SERIES	MODEL #	LOCATION	FUEL	INPUT BTU	RECOVERY @ 90°F RISE	STORAGE CAPACITY	WATER TEMP	V / PH	NOTES:
WH-1	AO SMITH	310	GPVX-75L	MECHANICAL ROOM	NATURAL GAS	76,000	80	72	140	120 / 1	1,2,3

1. ASME RATED
2. PIPE RELIEF VALVES OVER FLOOR DRAIN
3. ALL VENTING SHALL BY POLYPROPYLENE MATERIAL OR APPROVED EQUAL.

NOTE: PROVIDE A BELL & GOSSETT MODEL PTA-5 EXPANSION TANK WITH 3.5 GALLON TANK VOLUME AND 2.3 GALLON ACCEPTANCE VOLUME FOR DOMESTIC WATER HEATING SYSTEM DET-1.

EAPC

Architecture | Engineering
Interior Design | Industrial

TELEPHONE 701.609.5290
313 Main Street, Suite 200, Williston ND 58801
www.eapc.net

CONSULTANTS

CLIENT
WATFORD CITY PARK DISTRICT

PROJECT DESCRIPTION
WATFORD CITY PARK SHOP

CITY WATFORD CITY
STATE ND

ISSUE DATES

MARK	DESCRIPTION	DATE
CD	RE-BID	05/20/2026

PROJECT NO: 20262250
DRAWN BY: CBL
CHECKED BY: JL

STAMP

REGISTERED PROFESSIONAL ENGINEER
TYLER COULOMBE
PE-7492
DATE 05/20/2026
NORTH DAKOTA

DRAWING TITLE
PLUMBING SCHEDULES

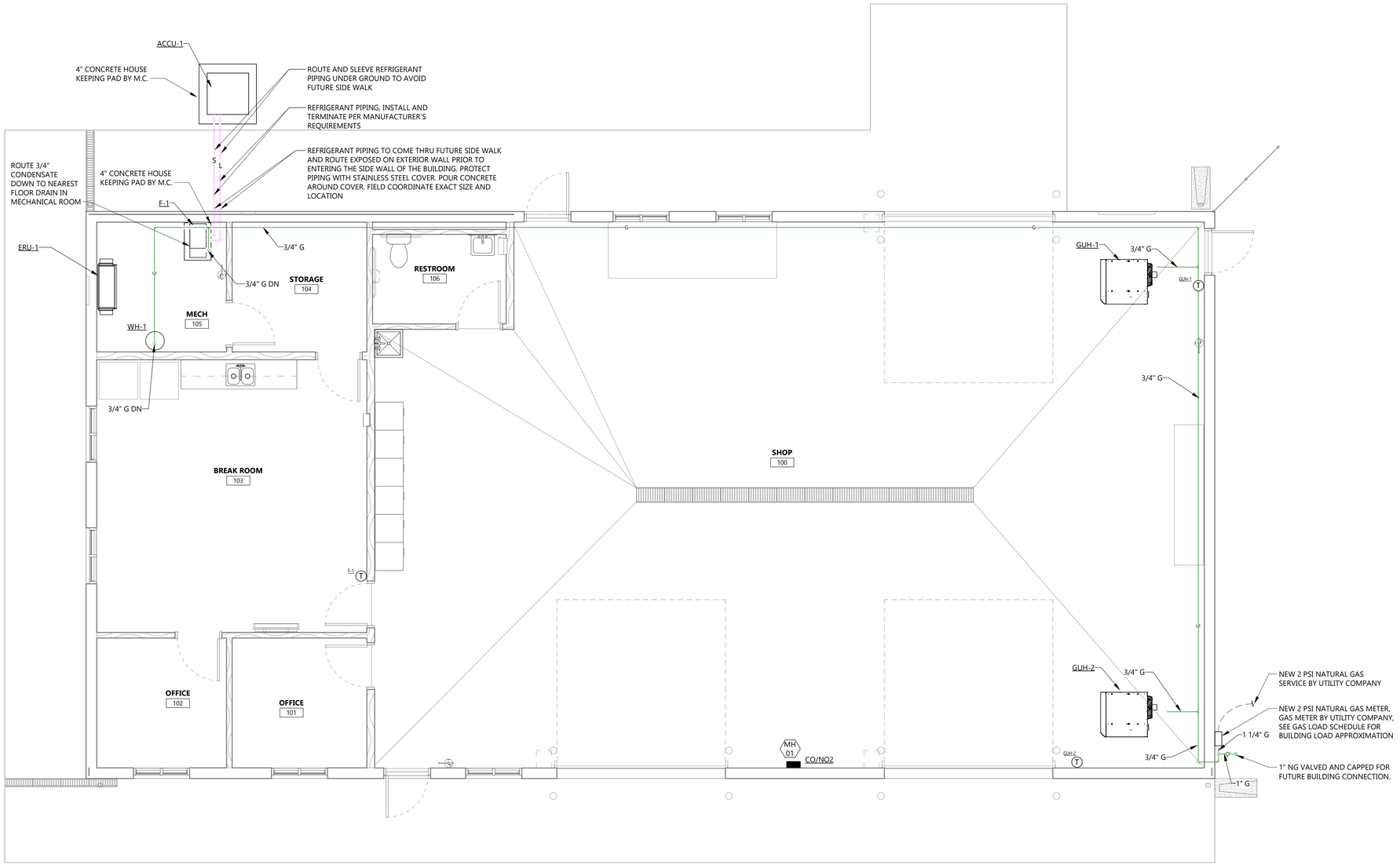
P801

Revit Version: 2025
Plot Date: 5/19/2026 12:43:52 PM

KEYNOTE LEGEND:

< < < INDICATES KEYNOTE ON PLAN

MH 01 CO SENSOR AND CONTROL PANEL MOUNTED 5'-0" A.F.F. NO2 SENSOR MOUNTED JUST BELOW STRUCTURE. CONTROL PANELS AND SENSORS PROVIDED AND INSTALLED BY M.C. WIRING BY DIV 26. LOW VOLTAGE WIRING BY M.C.



1 M201 FIRST FLOOR HYDRONICS PLAN

1/4" = 1'-0"

N

Revit Version: 2026
Plot Date: 5/19/2026 12:39:39 PM

EAPC

Architecture	Engineering
Interior Design	Industrial

TELEPHONE 701.609.5290
313 Main Street, Suite 200, Williston ND 58801
www.eapc.net

CONSULTANTS

CLIENT
WATFORD CITY PARK DISTRICT

PROJECT DESCRIPTION
WATFORD CITY PARK SHOP

CITY WATFORD CITY
STATE ND

ISSUE DATES

MARK	DESCRIPTION	DATE
CD	RE-BID	05/20/2026

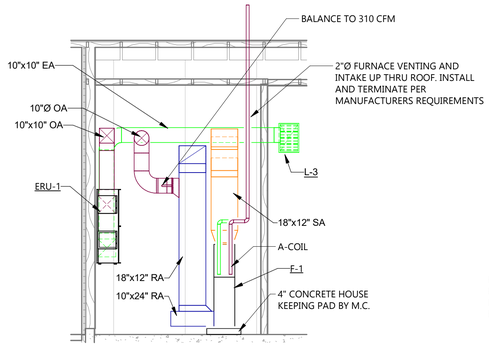
PROJECT NO: 20262250
DRAWN BY: BF
CHECKED BY: TC

STAMP

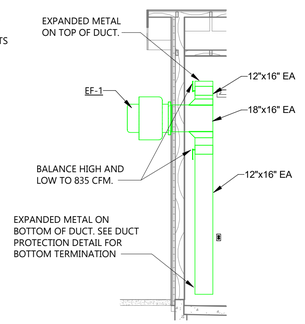
REGISTERED PROFESSIONAL ENGINEER
TYLER COULOMBE
PE-7492
DATE 05/20/2026
NORTH DAKOTA

DRAWING TITLE
FIRST FLOOR HYDRONICS PLAN

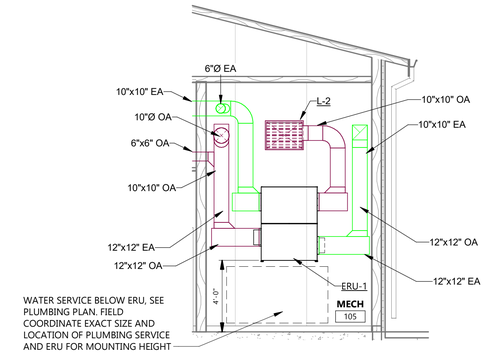
M201



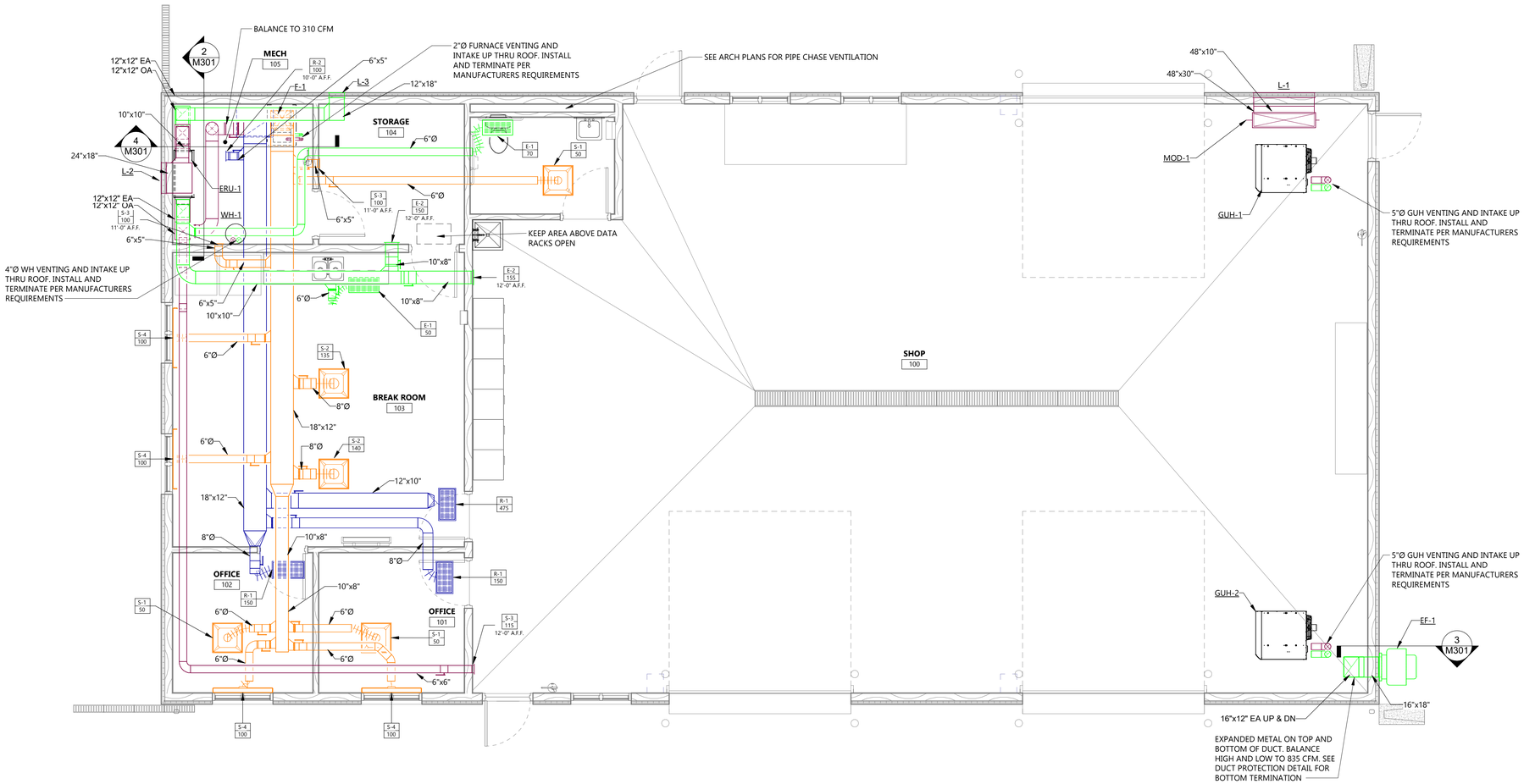
4 M301 **FURNACE-1 SECTION**
1/4" = 1'-0"



3 M301 **EF-1 SECTION**
1/4" = 1'-0"



2 M301 **ERU-1 SECTION**
1/4" = 1'-0"



1 M301 **FIRST FLOOR VENTILATION PLAN**
1/4" = 1'-0"

N

EAPC
Architecture | Engineering
Interior Design | Industrial
TELEPHONE 701.609.5290
313 Main Street, Suite 200, Williston ND 58801
www.eapc.net

CONSULTANTS

CLIENT
WATFORD CITY PARK DISTRICT

PROJECT DESCRIPTION
WATFORD CITY PARK SHOP

CITY WATFORD CITY
STATE ND

ISSUE DATES

MARK	DESCRIPTION	DATE
CD	RE-BID	05/20/2026

PROJECT NO: 20262250
DRAWN BY: BF
CHECKED BY: TC

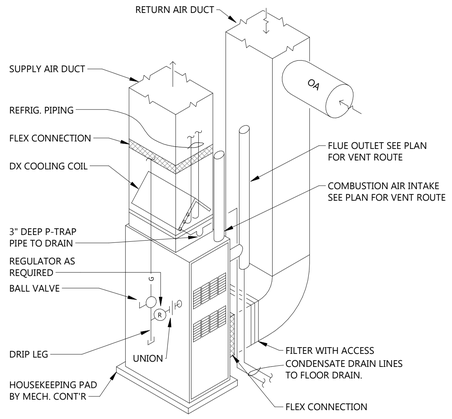
STAMP

REGISTERED PROFESSIONAL ENGINEER
TYLER COULOMBE
PE-7492
DATE 05/20/2026
NORTH DAKOTA

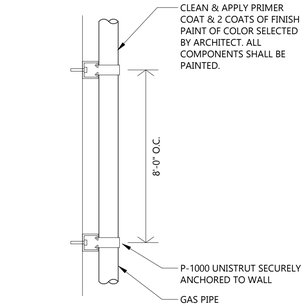
DRAWING TITLE
FIRST FLOOR VENTILATION PLAN

M301

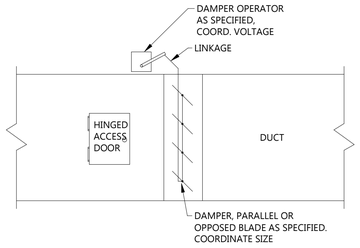
Revit Version: 2026
Plot Date: 5/18/2026 12:39:33 PM



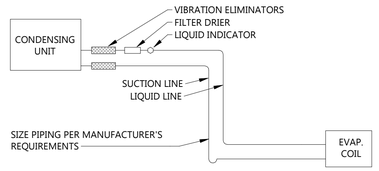
11 M601 **UPFLOW FURNACE DETAIL**
NOT TO SCALE



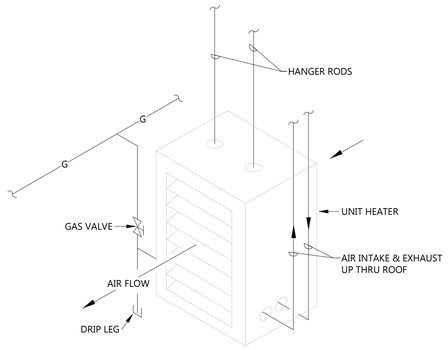
14 M601 **GAS PIPE MOUNTING DETAIL**
NOT TO SCALE



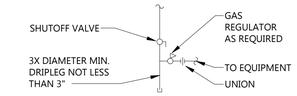
10 M601 **MOTOR OPERATED DAMPER DETAIL**
NOT TO SCALE



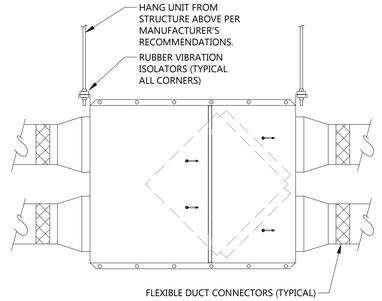
13 M601 **CONDENSING UNIT DETAIL**
NOT TO SCALE



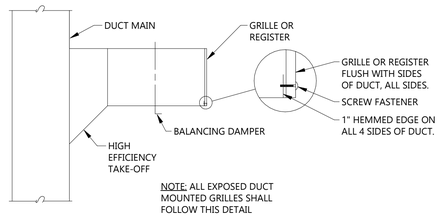
9 M601 **TYP. GAS FIRED UNIT HTR. CONNECTIONS**
NOT TO SCALE



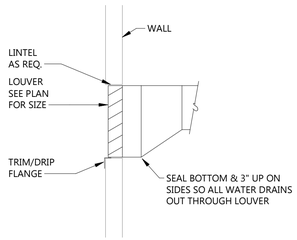
12 M601 **GAS DROP DETAIL**
NOT TO SCALE



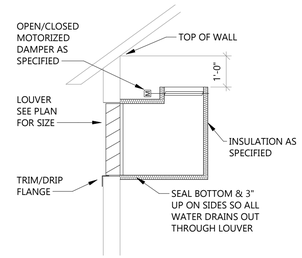
8 M601 **TYPICAL ERU DETAIL**
NOT TO SCALE



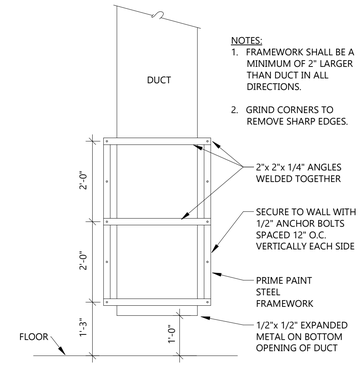
7 M601 **FLUSH GRILLE/REGISTER INSTALLATION**
NOT TO SCALE



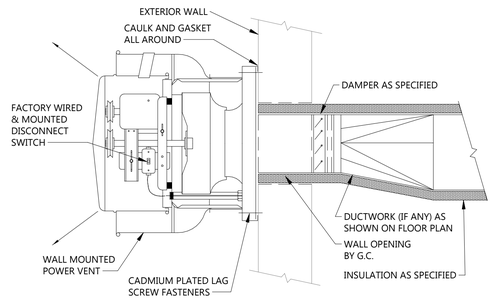
6 M601 **TYPICAL LOUVER DETAIL**
NOT TO SCALE



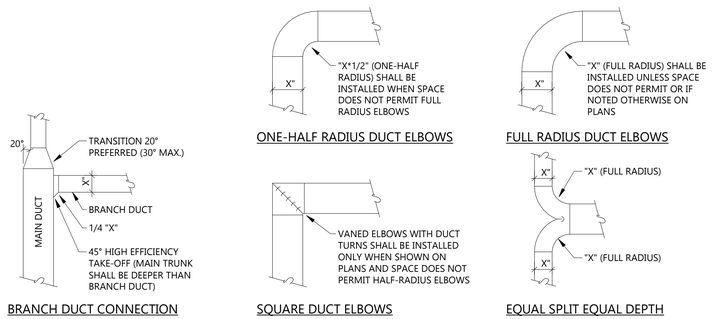
5 M601 **TYP MAKEUP AIR LOUVER DETAIL**
NOT TO SCALE



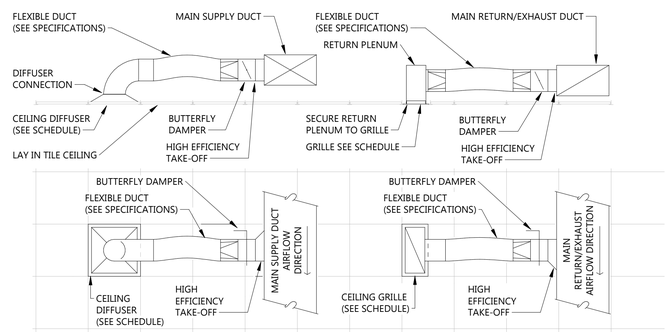
4 M601 **DUCT PROTECTION DETAIL**
NOT TO SCALE



3 M601 **SIDEWALL EXHAUST FAN DETAIL**
NOT TO SCALE



2 M601 **DUCT DETAILS**
NOT TO SCALE



1 M601 **TYPICAL DIFFUSER AND GRILLE CONNECTION DETAIL**
NOT TO SCALE

EAPC
Architecture | Engineering
Interior Design | Industrial
TELEPHONE 701.609.5290
313 Main Street, Suite 200, Williston ND 58801
www.eapc.net

CONSULTANTS

CLIENT
WATFORD CITY PARK DISTRICT

PROJECT DESCRIPTION
WATFORD CITY PARK SHOP

CITY WATFORD CITY
STATE ND

ISSUE DATES

MARK	DESCRIPTION	DATE
CD	RE-BID	05/20/2026

PROJECT NO: 20262250
DRAWN BY: BF
CHECKED BY: TC

STAMP

REGISTERED PROFESSIONAL ENGINEER
TYLER COULOMBE
PE-7492
DATE 05/20/2026
NORTH DAKOTA

DRAWING TITLE
MECHANICAL DETAILS

M601

Revit Version: 2026
Print Date: 5/19/2026 12:39:34 PM

ENERGY RECOVERY SCHEDULE

TAG	MANUFACTURER MODEL	AREA SERVED	SA CFM	EA CFM	SA E.S.P. " W.G.	EA E.S.P. " W.G.	SA FAN WATTS	EA FAN WATTS	ENERGY RECOVERY								ELECTRICAL				NOTES:
									EFFECTIVENESS %			WINTER		SUMMER			V / PH	MCA (A)	MOP (A)	FLA (A) (PER MOTOR)	
									SENSIBLE	WINTER	SUMMER	EAT	LAT	EAT	LAT	ROOM CONDITIONS WINTER	ROOM CONDITIONS SUMMER				
ERU-1	RENEWAIRE HE07-JINV	BUILDING	425	425	0.5"	0.5"	197	196	72%	72%	66%	-30	34.9	80.4 / 63.2	75 / 62.3	60 / 44	75 / 62.3	120 / 1	12.2	15.0	5.4	1, 2, 3, 4

1. PROVIDE FLEXIBLE CONNECTIONS ON ALL DUCTWORK CONNECTIONS TO UNIT.
2. PROVIDE SINGLE POINT POWER CONNECTION WITH FUSED DISCONNECT.
3. UNIT SHALL HAVE EC MOTORS.
4. PROVIDE UNIT WITH MOD ISOLATION DAMPERS ON BOTH AIRSTREAMS.

MOTORIZED DAMPER SCHEDULE

TAG	SIZE WIDTH	SIZE HEIGHT	DAMPER ACTUATOR	NOTES:
MOD-1	48"	10"	24V	1

1. LOW VOLTAGE WIRING BY MECHANICAL CONTRACTOR

FAN SCHEDULE

TAG	CFM	E.S.P.	MOTOR SIZE BHP	MOTOR SIZE HP	V / PH	FLA AMPS	RPM	FRPM	DRIVE	MANUFACTURER	MODEL	SOUND DATA (INLET) 62.5	125	250	500	dBA	SONES	SCCR	NOTES:
EF-1	1,670	0.50	0.30	0.50	115 / 1	6.4	1,174	1,174	DIRECT	GREENHECK	CUE-140-VG	70	79	76	69	61	21.0	5KA	1, 2, 3, 4, 5

1. FAN SHALL BE UL LISTED
2. UNIT SHALL BE SIDE WALL MOUNTED
3. PROVIDE WITH FACTORY SUPPLIED DISCONNECT
4. PROVIDE WITH BACKDRAFT DAMPER
5. FAN SHALL BE EC MOTOR TYPE WITH INTEGRAL SPEED CONTROL

UNIT HEATER SCHEDULE - GAS

TAG	TYPE	LOCATION	MANUFACTURER & MODEL #	INPUT MBH	OUTPUT MBH	CFM	FLUE OUTLET	GAS TYPE	FLA	FAN MOTOR HP	FAN MOTOR V / PH	NOTES:
GUH-1	SUSPENDED HORIZONTAL	SHOP 100	REZNOR UDXC 150	150	124.5	1,921	5	NATURAL	3.8	1 / 4	115 / 1	1, 2, 3, 4, 5, 6
GUH-2	SUSPENDED HORIZONTAL	SHOP 100	REZNOR UDXC 150	150	124.5	1,921	5	NATURAL	3.8	1 / 4	115 / 1	1, 2, 3, 4, 5, 6

1. PROVIDE DISCONNECT SWITCH, GAS REGULATOR AT UNIT.
2. PROVIDE REMOTE MOUNTED THERMOSTAT.
3. SUPPORT UNIT AS PER MANUFACTURER'S RECOMMENDATIONS.
4. LOW VOLTAGE WIRING BY MECHANICAL CONTRACTOR.
5. PROVIDE WITH 2-STAGE GAS VALVE
6. INSTALL UNITS WITH SEPARATED COMBUSTION PIPING

LOUVER SCHEDULE

TAG	MANUFACTURER & MODEL #	CFM	FREE AREA (FT2)	VELOCITY (FT/MIN)	PRESSURE DROP (IN W.C.)	LOUVER SIZE WIDTH	LOUVER SIZE HEIGHT	LOUVER SIZE DEPTH	FINISH	MATERIAL	NOTES:
L-1	GREENHECK ESD-435	1,670	5.1	329	0.02	48"	30"	4"	COLOR SELECTION BY ARCHITECT	ALUMINUM	1, 2, 3
L-2	GREENHECK ESD-435	425	1.2	345	0.02	24"	18"	4"	COLOR SELECTION BY ARCHITECT	ALUMINUM	1, 2, 3
L-3	GREENHECK ESD-435	425	0.5	792	0.09	12"	18"	4"	COLOR SELECTION BY ARCHITECT	ALUMINUM	1, 2, 3

1. MANUFACTURER TO PROVIDE LOUVER WITH 1/2"x 1/2" BIRDSCREEN
2. COLOR SELECTION BY ARCHITECT.
3. INSTALLED BY M.C.

FURNACE SCHEDULE

TAG	CFM	O.A.	ESP.	INPUT MBH	OUTPUT MBH	BLOWER DRIVE	MANUFACTURER MODEL	AFUE	ELECTRICAL V / PH	ELECTRICAL MOP (A)	ELECTRICAL MCA (A)	NOTES:
F-1	1,025	310 CFM FROM ERU-1	0.7	40.0	38.8	ECM 1/2 HP	DAIKIN DR96TN0403AN	90.0%	115 / 1	15.0	7.8	1, 2, 3, 4, 5, 6

1. FUEL IS NATURAL GAS, UNIT SHALL HAVE TWO STAGE HEAT.
2. PROVIDE WITH AUTOMATIC SWITCHOVER, AUX DAMPER CONTROL, 7-DAY PROGRAMMABLE OCCUPIED/UNOCCUPIED THERMOSTAT
3. LOW VOLTAGE WIRING BY MECHANICAL CONTRACTOR
4. DX COIL SHALL BE MATCHED WITH CORRESPONDING CONDENSING UNIT. PROVIDE UNIT WITH DX CASED A-COIL.
5. UNIT SHALL BE UPFLOW ORIENTATION.
6. PROVIDE WITH REFRIGERANT DETECTION

REGISTER-GRILLE-DIFFUSER SCHEDULE

TAG	TYPE	FACE	NECK SIZE	FRAME	CFM	1 = STEEL 2 = ALUM. 3= S. STEEL MATERIAL	1 = OFFWHITE 2 = CLEAR-ALUM 3 = #84 BLACK FINISH	MANUF. UNLESS NOTED OTHERWISE PRICE MODEL	NOTES:
S-1	S	SQUARE CONE / LAY-IN	6"Ø	24"x 24"	0-125	1	1	SCD	1, 2
S-2	S	SQUARE CONE / LAY-IN	8"Ø	24"x 24"	126-250	1	1	SCD	1, 2
S-3	S	FIXED GRILLE	6"x 5"	7-3/4"x 6-3/4"	SEE PLAN	1	1	510	3
S-4	S	SLOT DIFFUSER (2) 1 1/2" SLOTS	6"Ø	3"x48"	SEE PLAN	1	1	SDS150	1, 2, 5
R-1	R	EGG CRATE / LAY-IN	-	12"x 24"	0-1000	2	1	80	1, 2
R-2	R	FIXED GRILLE	6"x 5"	7-3/4"x 6-3/4"	SEE PLAN	1	1	530	4
E-1	E	EGG CRATE / LAY-IN	-	12"x 24"	0-1000	2	1	80	1, 2
E-2	E	FIXED GRILLE	10"x 8"	11-3/4"x 9-3/4"	SEE PLAN	1	1	530	3

1. LAY-IN CEILING, VERIFY TYPE WITH ARCHITECTURAL PLANS.
2. FLEXIBLE DUCT SIZE SHALL MATCH DIFFUSER NECK SIZE.
3. CAULK DIFFUSERS AND GRILLE TO WALLS AND CEILINGS FOR AIR TIGHT SEAL.
4. GRILLE TO BE DUCT MOUNTED
5. PROVIDE WITH INSULATED SDB PLENUM

AIR COOLED CONDENSING UNIT

TAG	CONTROLLED BY	COOLING BTUH (NOMINAL)	SEER2	ELECTRICAL V / PH	ELECTRICAL MCA (A)	ELECTRICAL MOP (A)	DAIKIN MODEL #	NOTES:
ACCU-1	F-1	24,000	15.2	230 / 1	15.0	20.0	DC7TCA2410	1, 2

MCA - MINIMUM CIRCUIT AMPACITY
1. 4" CONCRETE HOUSEKEEPING PAD FOR AIR COOLED CONDENSING UNITS BY MECHANICAL CONTRACTOR
2. DISCONNECT BY DIV. 26
3. UNIT SHALL HAVE TWO STAGE COOLING WITH REFRIGERANT R-32

GAS LOAD SCHEDULE

ROOM	TAG	CFH
SHOP 100	GUH-1	150
SHOP 100	GUH-2	150
MECH 105	WH-1	76
MECH 105	F-1	40
	TOTAL CFH =	376

EAPC
Architecture | Engineering
Interior Design | Industrial
TELEPHONE 701.609.5290
313 Main Street, Suite 200, Williston ND 58801
www.eapc.net

CONSULTANTS

CLIENT
WATFORD CITY PARK DISTRICT

PROJECT DESCRIPTION
WATFORD CITY PARK SHOP

CITY WATFORD CITY
STATE ND

ISSUE DATES

MARK	DESCRIPTION	DATE
CD	RE-BID	05/20/2026

PROJECT NO: 20262250
DRAWN BY: BF
CHECKED BY: TC

STAMP

REGISTERED PROFESSIONAL ENGINEER
TYLER COULOMBE
PE-7492
DATE 05/20/2026
NORTH DAKOTA

DRAWING TITLE
MECHANICAL SCHEDULES

M801

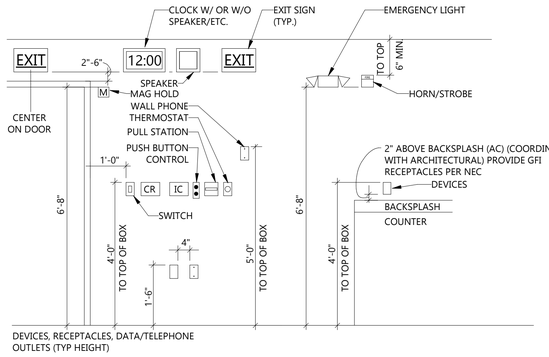
Revit Version: 2026
Revit Date: 5/19/2026 12:39:34 PM

ELECTRICAL LEGEND

ABBREVIATIONS

NOTE: NOT ALL ABBREVIATIONS MAY BE USED ON THIS PROJECT

A	– AMPERES	FO	– FIBER OPTICS	NTS	– NOT TO SCALE
AC	– ABOVE COUNTER	FT	– FEET	OC	– ON CENTER
ACCU	– AIR COOLED CONDENSING UNIT	FUT	– FUTURE	OCPD	– OVERCURRENT PROTECTION DEVICE
AF	– AMP-FUSE	FURN	– FURNISHED	OD	– OUTSIDE DIMENSION, OUTSIDE DIAMETER
AFF	– ABOVE FINISHED FLOOR	FUS	– FUSE, FUSED, FUSIBLE	OH	– OVERHEAD
AFG	– ABOVE FINISHED GRADE	GND	– GROUND	OL	– OUTLET, OVERLOAD
AHJ	– AUTHORITY HAVING JURISDICTION	GARB	– GARBAGE DISPOSAL	OP	– OPERATOR
AHU	– AIR HANDLING UNIT	GC	– GENERAL CONTRACTOR	PC	– PHOTO CONTROL
ALT	– ALTERNATE	GEN	– GENERATOR	Ø, PH	– PHASE
AL	– ALUMINUM	G/GFI	– GROUND FAULT CIRCUIT INTERUPTOR	P.H.	– PENTHOUSE
AMP	– AMPLIFIER	GFP	– GROUND FAULT PROTECTION	PNL	– PANEL, PANELBOARD
ANN	– ANNUNCIATOR	HD	– HEAVY DUTY	PR	– PAIR
ARCH	– ARCHITECT(URAL)	HID	– HIGH INTENSITY DISCHARGE	PRI	– PRIMARY
ATS	– AUTOMATIC TRANSFER SWITCH	HP	– HORSE POWER	PROJ	– PROJECTOR
AV	– AUDIO VISUAL	HPS	– HIGH PRESSURE SODIUM	PRV	– POWER ROOF VENT
AUX	– AUXILIARY	HOA	– HAND-OFF-AUTO	PS	– POWER SUPPLY
BFG	– BELOW FINISHED GRADE	HT	– HEIGHT	QTY	– QUANTITY
BK	– BLACK	HTR	– HEATER	REC	– RECESSED
BKR	– BREAKER	HVU	– HEATING & VENTILATING UNIT	RCVR	– RECEIVER
BR	– BRANCH	HW	– HOT WATER	RECEPT	– RECEPTACLE
BTU	– BRITISH THERMAL UNIT	HWH	– HOT WATER HEATER	REF	– REFERENCE, REFER TO
CAB	– CABINET	ID	– INSIDE DIMENSION	REQ	– REQUIRE OR RQD REQUIRED
CALC	– CALCULATION	IDF	– INTERMEDIATE DISTRIBUTION FRAME	REV	– REVISION
CAT	– CATALOG	IN	– INCHES	REX	– REQUEST TO EXIT
CB	– CIRCUIT BREAKER	IN8/OUT	– INBOARD/OUTBARD	RLA	– RUNNING LOAD AMPS
CCT	– CIRCUIT	INCAND	– INBOARD/OUTBARD	RM	– ROOM
CFL	– COMPACT FLUORESCENT LIGHT	INFO	– INFORMATION	RTU	– ROOF TOP UNIT
CKT	– CIRCUIT	INST	– INSTALLATION	SC	– SHORT CIRCUIT
CLG/C	– CEILING	INSUL	– INSULATION	SF	– SQUARE FEET
COMM	– COMMUNICATIONS	INV	– INVERTER	SHT	– SHEET
COMP	– COMPRESSOR	JB	– JUNCTION BOX	SD	– SMOKE DAMPER
CONN	– CONDUCTOR	KA	– THOUSAND AMPS	SP	– SUMP PUMP
CONN	– CONNECTOR	KS	– KNEE SPACE	SPEC	– SPECIFICATION
CR	– CARD READER	L	– LAMP	SS	– STAINLESS STEEL
CT	– CURRENT TRANSFORMER	LCP	– LIGHTING CONTROL PANEL	STD	– STANDARD
CTR	– CENTER	LRA	– LOCKED ROTOR AMPS	SURF	– SURFACE MOUNT
CU	– COPPER	LTG	– LIGHTING	SW	– SWITCH
CUH	– CABINET UNIT HEATER	LTS	– LIGHTS	SWBD	– SWITCHBOARD
dB	– DECIBEL	LV	– LOW VOLTAGE	SYS	– SYSTEM
DED	– DEDICATED CIRCUIT	M.MAINT	– MAINTENANCE	TCC	– TEMPERATURE CONTROL CONTRACTOR
DEV	– DEVICE	MAU	– MAKE UP AIR UNIT	TCP	– TEMPERATURE CONTROL PANEL
DIA	– DIAMETER	MAX	– MAXIMUM	TD	– TIME DELAY
DISC	– DISCONNECT	MC	– MECHANICAL CONTACTOR	TEL	– TELEPHONE
DISP	– DISPOSAL	MCA	– MINIMUM CIRCUIT AMPS	TEMP	– TEMPORARY, TEMPERATURE
DISTR	– DISTRIBUTION	MCB	– MAIN CIRCUIT BREAKER	TP	– TAMPERPROOF
DN	– DOWN	MCC	– MOTOR CONTROL CENTER	TS	– TIME SWITCH
DTL	– DETAIL	MDF	– MAIN DISTRIBUTION FRAME	TSTAT	– THERMOSTAT
DWG	– DRAWING	MDP	– MAIN DISTRIBUTION PANEL	TV	– TELEVISION
EC	– ELECTRICAL CONTRACTOR	MIC	– MICROWAVE	TVSS	– TRANSIENT VOLTAGE SURGE SUPPRESSOR
EF	– EXHAUST FAN	MRF	– MANUFACTURER	TYP	– TYPICAL
EL	– ELECTRICAL, ELECTRIC	MFS	– MAXIMUM FUSE SIZE	UG	– UNDERGROUND
ELEV	– ELEVATOR OR ELEVATION	MH	– METAL HALIDE, MOUNTING HEIGHT, MANHOLE	UH	– UNIT HEATER
EM	– EMERGENCY	MIN	– MINIMUM	UNO	– UNLESS NOTED OTHERWISE
EQ	– EQUAL, EQUIPMENT	MLO	– MAIN LUGS ONLY	UNV	– UNIVERSAL
ERU	– ENERGY RECOVERY UNIT	MOP	– MAXIMUM OVERCURRENT PROTECTION	UTIL	– UTILITY
EUH	– ELECTRIC UNIT HEATER	MSB	– MAIN SWITCHBOARD	UTP	– UNSHIELDED TWISTED PAIR
EWC	– ELECTRIC WATER COOLER	MATL	– MATERIAL	V	– VOLT
EWH	– ELECTRIC WATER HEATER	MTR	– MOTOR OR METER	VA	– VOLT--AMPS
EX	– EXITING	N	– NEUTRAL	VAV	– VAV BOX
EXH	– EXHAUST	NA	– NOT APPLICABLE	VERT	– VERITCAL
EXPL	– EXPLOSION PROOF	NC	– NORMALLY CLOSED	VFD	– VARIABLE FREQUENCY DRIVE
F	– FUSE OR FRONT	NEC	– NATIONAL ELECTRICAL CODE	WG	– WIRE GUARD
°F	– DEGREES FARENHEIT	NF	– NON FUSED	WC	– WATER CLOSET
FD	– FIRE DAMPER	NIC	– NOT IN CONTRACT	WH	– WATER HEATER
FIXT	– FIXTRUE, LUMINAIRE	NL	– NIGHT LIGHT	WP	– WEATHER PROOF, NEMA 3R IF ENCLOSED
FLA	– FULL LOAD AMPERES	N.O.	– NORMALLY OPEN	W/	– WITH
FL	– FLOOR	NORM	– NORMAL(LY)	W/O	– WITHOUT
				XFMR	– TRANSFORMER



1 E001 ELECTRICAL DEVICE MOUNTING HEIGHTS

NOT TO SCALE

ELECTRICAL MOUNTING HEIGHT NOTES:

A. HEIGHTS SHOWN ARE TYPICAL TO BOTTOM OF DEVICE UNLESS NOTED OTHERWISE.

B. MOUNTING HEIGHTS SHOWN ON ARCHITECTURAL ELEVATIONS SHALL GOVERN OVER ALL ELEVATIONS SHOWN OR INDICATED ON ELECTRICAL DRAWINGS.

C. INSTALL FIRE ALARM NOTIFICATION APPLIANCES AT 80" AFF, OTHERWISE INSTALL AT 6" BELOW CEILING, WHICH EVER IS LOWER.

D. VERIFY EXIT LIGHT HEIGHTS WITH ARCHITECT.

E. TYPICAL HEIGHTS SHOWN, HEIGHTS ON PLANS SHALL GOVERN OVER THESE. DEVICES WITH KNOW OBSTRUCTIONS SUCH AS, BUT NOT LIMITED TO COUNTERTOPS & SHELVING MAY REQUIRE A LOWER HEIGHT, VERIFY WITH ARCHITECT/ENGINEER.

F. SYMBOLS NOT SHOWN SHALL BE VERIFIED WITH ARCHITECT/ENGINEER.

POWER

RECEPTACLES

- DUPLEX RECEPTACLE - 20A, 125V
- ISOLATED GROUND
- SINGLE RECEPTACLE
- DOUBLE DUPLEX RECEPTACLE-20A, 125V
- HALF-SWITCHED RECEPTACLE-20A, 120V
- SPECIAL RECEPTACLE
- BOX SURROUNDING DEVICE DEPICTS FLOOR MOUNTED
- EMERGENCY DUPLEX - 20A, 120V
- EMERGENCY DOUBLE DUPLEX -20A, 120V
- DEAD FRONT GFCI DEVICE
- SUB= SUBSCRIPT AS FOLLOWS:
  AC-ABOVE COUNTER
  CLG-CEILING OUTLET
  EM-EMERGENCY
  EWC-ELECTRIC WATER COOLER
  F-FLOOR
  G-GROUND FAULT INTERRUPTER
  H-HORIZONTALLY MOUNTED
  P-PLUG MOLD
  S-SURFACE MOUNTED
  SS-SURGE SUPPRESSION RECEPTACLE
  TP-TAMPER PROOF
  U-RECEPTACLE WITH USB TYP A & C CONNECTOR
  W-WELDING RECEPTACLE
  WP-WEATHERPROOF
  XP-EXPLOSION PROOF
  10-NUMBER INDICATES CIRCUIT NUMBER
  -WALL MOUNTED HEIGHTS UNLESS NOTED OTHERWISE

JUNCTION BOXES

- JUNCTION BOX
- FLOOR MOUNTED JUNCTION BOX
- LARGE JUNCTION BOX
- HAND DRYER

MOTORS & HVAC EQUIPMENT & CONTROLS

- MOTOR-# INDICATES MOTOR NUMBER
- SMALL MOTOR-XX LETTERS INDICATE SERVICE SUB AS FOLLOWS:
  EF-BATHROOM EXHAUST FAN
  GD-GARBAGE DISPOSAL HD-HAND DRYER
- MANUAL MOTOR STARTER
- MANUAL MOTOR DISCONNECT W/THERMAL PROTECTION
- MAGNETIC MOTOR STARTER
- STARTER/DISCONNECT COMBINATION UNIT
- DISCONNECT SWITCH
- TEMPERATURE CONTROL PANEL
- THERMOSTAT
- RELAY
- MAGNETIC CONTACTOR
- EMERGENCY SHUNT TRIP

PANELS/EQUIPMENT

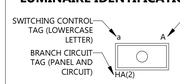
- MDP – MAIN DISTRIBUTION PANEL
- FLUSH MOUNTED PANELBOARD
- SURFACE MOUNTED PANELBOARD
- T – DRY TRANSFORMER
- MCC – MOTOR CONTROL CENTER
- M M – METER
- H – ELECTRIC HEATER/REHEATER
- BB – BACK BOX FOR FUTURE WIRING DEVICE

RACEWAY

- A-1,3,5 – HOMERUN-TEXT DESIGNATES PANEL AND CIRCUIT BREAKER NUMBER. HASH MARKS INDICATE NUMBER OF #12 AWG CONDUCTORS IN A 3/4" CONDUIT. NO HASH MARKS INDICATE 2 #12 AWG IN A 3/4" CONDUIT UNLESS NOTED OTHERWISE. PROVIDE A CODE SIZED GROUND IN EACH CONDUIT.
- SURFACE RACEWAY - RECEPTACLES
- SURFACE RACEWAY - DATA/TELEPHONE
- CONDUIT STUB
- CONDUIT UP
- CONDUIT DOWN
- EXPLOSION PROOF SEAL OFF
- FLEX CONDUIT
- CONDUIT/BRANCH CIRCUIT
- CABLE TRAY

LIGHTING

LUMINAIRE IDENTIFICATION LEGEND



INTERIOR LIGHTING

ALL LIGHTING FIXTURES ARE IDENTIFIED BY A LETTER(S) COORDINATE WITH LUMINAIRE SCHEDULE AS TO THE FIXTURES: IDENTIFICATION, MANUFACTURER, CATALOG NUMBER, LAMPS, MOUNTING, LOCATION AND COMMENTS.

- RECESSED TROFFER
- RECESSED TROFFER EMERGENCY
- SURFACE MOUNTED LIGHT FIXTURE
- SURFACE MOUNTED LIGHT FIXT EMERGENCY
- RECESSED LED STRIP LIGHT
- RECESSED LED STRIP LIGHT EMERGENCY
- PENDANT MOUNTED
- PENDANT MOUNTED EMERGENCY
- HIGHBAY
- UNDER CABINET
- WALL MOUNTED FIXTURE
- STRIP LIGHT OR INDUSTRIAL FIXTURE
- RECESSED DOWN LIGHT EMERGENCY
- RECESSED DOWN LIGHT
- RECESSED DOWN LIGHT WALL WASH
- WALL MOUNTED FIXTURE
- WALL MOUNTED FIXTURE EMERGENCY
- RECESSED WALL
- RECESSED WALL EMERGENCY
- SURFACE MOUNTED LIGHT FIXTURE
- PENDANT MOUNT FIXTURE

EXIT - EMERGENCY

- WALL MOUNTED EXIT LIGHT
- CEILING MOUNTED EXIT LIGHT
- SURFACE MOUNTED EMERGENCY LIGHT
- RECESSED EMERGENCY LIGHT
- REMOTE HEAD FOR EMERGENCY FIXTURE
- COMBINATION EXIT/EMERGENCY

SPECIAL LIGHTING

- TRACK LIGHTING
- COMBINATION FAN/LIGHT

EXTERIOR/SITE

- POLE WITH LIGHT FIXTURE(S) FIXTURE SHOWN DEFINE QUANTITY AND ORIENTATION ORIENTATION.
- POST TOP FIXTURE
- BOLLARD
- SPOT LIGHT
- FLOOD LIGHT

LIGHTING CONTROL

- SUB $ – SINGLE POLE SWITCH, 120V, 20A
  SUB= SUBSCRIPT AS FOLLOWS:
  NONE-SINGLE-POLE, 120V, 20A
  2-TWO-POLE, 120V, 20A
  3-THREE-WAY, 120V, 20A
  4-FOUR-WAY, 120V,20A
  F-FUSED
  K-KEYED TYPE
  L-LIGHTED TOGGLE
  LV-LOW VOLTAGE
  P-SWITCH W/PILOT LIGHT
  T-TIMER
  WP-WEATHERPROOF
  WF-WEATHERPROOF FUSED SWITCH
- D – LINE VOLTAGE DIMMER
- OS – CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR
- DH – DAYLIGHT SENSOR
- OS – CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR
- OS – WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR WITH INTEGRAL DIMMING
- OS – WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR WITH ON/OFF SWITCH
- S – DIGITAL SWITCH (CAT6)
- D – DIGITAL DIMMER (CAT6)
- WALL MOUNTED MULTI-BUTTON SWITCH, # TO INDICATE QUANTITY OF BUTTONS (CAT6)
- TS – TOUCH SCREEN (CAT6)
- OS – DIGITAL CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR (CAT6)
- NB – DIGITAL NETWORK BRIDGE TIE TO DIGITAL LIGHTING CONTROL SYSTEM (CAT6)
- PT – PARTITION SENSOR EMITTER AND RECEIVER
- IOS – DIGITAL UL 924 DEVICE (CAT6)
- DH – DIGITAL DAYLIGHT SENSOR
- RC# – DIGITAL DIMMING ROOM CONTROLLER, # INDICATES QUANTITY OF RELAYS (CAT6)
- PDL – PLUG LOAD CONTROLLER (CAT6)
- PP – POWER PACK
- RG – RGB DMX TOUCHSCREEN CONTROLLER
- PC – OUTDOOR PHOTO SENSOR

SYSTEMS

TELEPHONE/DATA

- SUB – DATA
  SUB= SUBSCRIPT AS FOLLOWS:
  #-INDICATES NUMBER OF OUTLETS
- SUB – DATA/VOICE OUTLET
  SUB= SUBSCRIPT AS FOLLOWS:
  #D/#V-INDICATES # & TYPE OF OUTLETS
- DATA/VOICE/QUADPLEX FLOOR BOX
- DATA/VOICE/DUPLEX FLOOR BOX
- CLG – DATA OUTLET CEILING
- DATA OUTLET FLOOR BOX
- DATA/VOICE OUTLET FLOOR BOX
- SUB – VOICE OUTLET
  SUB= SUBSCRIPT AS FOLLOWS:
  M-VOICE OUTLET/MULTI
  P-VOICE OUTLET/PUBLIC
  W-VOICE OUTLET/WALL
- WAP – WIRELESS ACCESS POINT
- TCC – TERMINAL CABINET
- CPP – DIGITAL COMMUNICATIONS PATCH PANEL VOICE/DATA/VIDEO
- TYB/D – TELEPHONE TERMINAL BLOCK UTILITY DEMARK
- 3/4" PLYWOOD BACKBOARD W/ 2 COATS RETARDANT
- EQUIPMENT RACK - FREE STANDING
- EQUIPMENT RACK - WALL MOUNTED

PAGING/SOUND/DATA/SURVEILLANCE

- S SUB / SUB – SPEAKER - CEILING MOUNTED
  SPEAKER - WALL MOUNTED
  SUB= SUBSCRIPT AS FOLLOWS:
  H-HORN SPEAKER
  N-NURSE CALL
  P-SPEAKER WITH PUSHBUTTON
  WG-WIREGUARD
  WP-WEATHERPROOF
- E – SOUND MASKING SYSTEM EMITTER
- MI – MASTER INTERCOM AND DIRECTORY UNIT
- M – MICROPHONE OUTLET
- VC – VOLUME CONTROL
- IC SUB – INTERCOM HANDSET
  SUB= SUBSCRIPT AS FOLLOWS:
  DM-DESK MOUNTED
  M-MASTER
  MD-MASTER DESK MOUNT
  W-WALL MOUNTED
- A SUB – AUXILIARY INPUT
  SUB= SUBSCRIPT AS FOLLOWS:
  I-INPUT
  O-OUTPUT
- VB – VIDEO OUTLET
- SPP – SOUND SYS. PATCH PNL
- TV – TELEVISION OUTLET

DOOR SECURITY/SECURITY EXIT

- PUSHBUTTON
- HAND STATION (NORMALLY PUSH BUTTONS)
- BELL
  SUB= SUBSCRIPT AS FOLLOWS:
  B-BUZZER
  D-DOOR CHIME/BELL
  E-ELEVATOR CHIME
  P-PROGRAM BELL
- DO – DOOR OPENER
- K – DOOR KEYPAD
- FP – FINGER PRINT SCANNER
- ES – ELECTRIC STRIKE DOOR LATCH
- MD – MOTION DETECTOR
- BG – BREAK GLASS DETECTOR
- SECURITY CAMERA
  SUB= SUBSCRIPT AS FOLLOWS:
  HS-HIGH SECURITY C-CEILING
  PTZ-PAN TILT ZOOM W-WALL
  WP-WEATHERPROOF
- SECURITY CAMERA - WALL MOUNTED
- SMON – SECURITY MONITOR
- IC – INTERCOM
- DC – SECURITY DOOR CONTACTS
- CR SUB – CARD READER
  SUB= SUBSCRIPT AS FOLLOWS:
  I-INTERCOM
  WP-WEATHERPROOF
- REX – REQUEST TO EXIT SENSOR
- P – PANIC BAR
- ML – MAGNETIC LOCK
- CCTV – CCTV CABLE OUTLET
- W – WANDER GUARD

CLOCK/PROGRAM

- C SUB – WALL MOUNTED CLOCK
  SUB= SUBSCRIPT AS FOLLOWS:
  B-WITH BUZZER
  R-RECESSED
  WG-WITH WIREGUARD
- MC – MASTER CLOCK
- TC – TIME CLOCK
- CS – CLOCK WITH SPEAKER

SYSTEMS

FIRE ALARM

- FACP – FIRE ALARM CONTROL PANEL
- FAA – FIRE ALARM ANNUNCIATOR PANEL
- F SUB – FIRE ALARM AUDIO DEVICE
  SUB= SUBSCRIPT AS FOLLOWS:
  WG-WIREGUARD WP-WEATHERPROOF
  S-SPEAKER
- F SUB – FIRE ALARM AUDIO/VISUAL
  SUB= SUBSCRIPT AS FOLLOWS:
  WG-WIREGUARD MH-MINI-HORN
  H-HORN WP-WEATHERPROOF
  S-SPEAKER
- F – MANUAL PULL STATION
- F SUB – FIRE ALARM VISUAL
  SUB= SUBSCRIPT AS FOLLOWS:
  NO SUB-75 CANDELA
- S SUB – AUTOMATIC SMOKE DETECTOR
  SUB= SUBSCRIPT AS FOLLOWS:
  ID-IONIZATION E-ELEVATOR RECALL
  L-LOCAL SC-SELF CONTAINED
  LSR-LASER WG-WIRE GUARD
  D-DUCT SMOKE DETECTOR W/2 AUX CONTACTS
  CO-COMBINATION CO DETECTOR
  SB-SOUNDER BASE
- S – AUTOMATIC SMOKE DETECTOR-WALL MOUNT
- SUB – AUTOMATIC HEAT DETECTOR-CEILING MOUNT
  SUB= SUBSCRIPT AS FOLLOWS:
  NONE-FIXED TEMP & 135°F RATE OF RISE
  F-FIXED TEMP 190°F
- IAM – INDIVIDUAL ADDRESSABLE MODULE
- LED – REMOTE INDICATOR
- M – FIRE ALARM MAGNETIC DOOR HOLDER
- TS – MAIN SPRINKLER VALVE SUPERVISION TAMPER SWITCH
- FS – SPRINKLER OR HOSE FLOW ALARM SWITCH
- FAR – FIRE ALARM RELAY
- FR – FIRE ALARM SHUTDOWN RELAY
- NAC – NOTIFICATION APPLIANCE CIRCUIT PANEL
- ZAM – ZONE ADAPTER MODULE
- FIRE ALARM BELL
- TRP – TRANSPONDER
- FAJB – FIRE ALARM JUNCTION BOX
- B SUB – BEAM DETECTOR
  SUB= SUBSCRIPT AS FOLLOWS:
  S-SENDING UNIT
  R-RECEIVER
- PS – LOW PRESSURE SWITCH

NURSE CALL

- NMC – NURSE CALL MASTER CONSOLE
- NCT – NURSES CALL TERMINAL CABINET
- SP – SINGLE PATIENT BED STATION
- DP – DOUBLE PATIENT BED STATION
- D – FOUR LAMP CORRIDOR LIGHT
- BI – BED INTERFACE KIT
- DC – DOMELESS CONTROLLER
- DS – DUTY STATION
- BM – FIVE BED STATION
- CP – I-DOME STAFF ALERT
- PC – PULL CORD
- PB – PUSH BUTTON
- SA – STAFF ASSIST STATION
- CB – CODE BLUE STATION
- SR – STAFF REGISTRATION
- SB – STAFF ASSIST / CODE BLUE
- S N – SPEAKER
- ST – STAFF TERMINAL

MISCELLANEOUS

- GROUND/ROD CONNECTION POINT
- CO – CARBON MONOXIDE DETECTORS
  SUB=SUBSCRIPT AS FOLLOWS:
  A-AUDIBLE ALARM
  L-LOCAL
  V-VISUAL
- OE – OVERHEAD ELECTRICAL
- UE – UNDERGROUND ELECTRICAL
- GUY WIRE
- POST
- FAN
- PP – EXTERIOR UTILITY POWER POLE
- PP T – EXTERIOR UTILITY POWER POLE W/XFMR
- SCP – SOUND CONTROL PANEL
- LCP – LIGHTING CONTROL PANEL

REFERENCE SYMBOLS

N/E	POINT OF CONNECTION (NEW TO EXISTING)
1 E100	SECTION NUMBER / DRAWING NUMBER
	ENCLOSE THE ENLARGED AREA
AREA A / AREA B	MATCH LINE
	-/--VIEW REFERENCE
	-/--VIEW REFERENCE
AREA B	-/--VIEW REFERENCE OF ADJACENT SHEET
XX XXX XX	ROOM NAME / ROOM NUMBER
1 E200	DETAIL DESIGNATION / DETAIL NUMBER / DRAWING NUMBER
2 E200	SECTION DESIGNATION / SECTION NUMBER / DRAWING NUMBER
1	REFERENCE NOTE
1	REVISION NUMBER
	REVISION INDICATOR
2 1 3	INTERIOR ELEVATION / DRAWING NUMBER / ELEVATION NUMBER

NOTE:
NOT ALL SYMBOLS AND ABBREVIATIONS MAY BE USED ON THIS PROJECT

PROJECT NOTES:

A. ALL RUNS CONCEALED UNLESS NOTED OTHERWISE.

B. VERIFY ALL LOCATIONS WITH ARCH.

C. VERIFY ALL COLORS WITH ARCH.

D. PROVIDE SLEEVES FOR ALL CABLING & CONDUITS INCLUDING THOSE FOR USE OF OWNER & HIS OTHER CONTRACTORS. COORDINATE WITH OTHER TRADES & OTHER CONTRACTORS. OBTAIN LOCATIONS FROM THEM.

E. PROVIDE ALL SLEEVES THROUGH WALLS, FLOORS, CEILINGS & ACROSS SOLID CEILING AREAS. COORDINATE INSTALLATION OF SLEEVES TO ACCOMMODATE MULTIPLE SYSTEMS, I.E.; VOICE, DATA, SECURITY, CCTV, SPEAKER, MICROPHONE, LINE LEVEL AUDIO, VIDEO & CONTROL WIRING.

F. ALL SYSTEMS IN CONDUIT UNO. CONDUITS SIZED TO CODE OR LARGER

G. COMPLY WITH APPLICABLE STANDARDS & CODES.

H. NOT EVERY PART OF EVERY SYSTEM IS SHOWN. PROVIDE COMPLETE SYSTEMS PROPERLY OPERATING TO OWNER SATISFACTION.

I. ALL FINAL COLORS, FINISHES, MATERIAL SELECTIONS, TRIMS, HARDWARE AND ACCESSORIES, SHALL BE DETERMINED BY ARCHITECT. SUBMIT SHOP DRAWINGS AND SAMPLES.

J. EC SHALL PROVIDE ALL FIRE STOPPING PER SPECIFICATIONS IN OTHER DIVISIONS. ALSO SEAL ALL ELECTRICAL PENETRATIONS THROUGH SMOKE AND OR FIRE PENETRATIONS AS SHOWN ON THE ARCHITECTURAL PLANS.

K. TEST ALL SYSTEMS TO OWNER'S SATISFACTION IN THE PRESENCE OF OWNER'S FIELD REPRESENTATIVE.

L. SATISFY APPLICABLE CODES.

M. LABEL EVERYTHING.

N. PROVIDE PULL CORDS IN EMPTY CONDUITS.

O. SUBMIT SHOP DWGS FOR ALL ITEMS.

EAPC
Architecture | Engineering
Interior Design | Industrial
TELEPHONE 701.461.7222
112 No.Roberts Street, Suite 300, Fargo ND 58102
www.eapc.net

CLIENT
WATFORD CITY PARK DISTRICT

PROJECT DESCRIPTION
WATFORD CITY PARK SHOP

CITY WATFORD CITY
STATE ND

ISSUE DATES

CD	RE-BID	05/20/2026
MARK	DESCRIPTION	DATE

PROJECT NO: 20262250
DRAWN BY: TA
CHECKED BY: BW

STAMP

REGISTERED PROFESSIONAL ENGINEER
BRIAN WENTLAND
PE-27191
DATE05/20/2026
NORTH DAKOTA

DRAWING TITLE
ELECTRICAL SYMBOLS & ABBREVIATIONS LEGEND

E001

Revit Version: 2026
Plot Date: 5/20/2026 2:55:51 PM

SECTION DIVISIONS 26, 27, AND 28

ELECTRICAL SPECIFICATIONS

26 0000 SCOPE OF WORK:

1.1 THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL MATERIALS, LABOR, AND EQUIPMENT NECESSARY TO COMPLETE THE PROJECT IN CONFORMITY WITH THE DRAWINGS, SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS.

a. MATERIALS FURNISHED SHALL INCLUDE, BUT NOT BE LIMITED TO RACEWAYS, CONDUCTORS, SWITCHES, RECEPTACLES, LIGHT FIXTURES, NECESSARY HANGERS AND SUPPORTS, SERVICE ENTRANCE, PANELS, ELECTRIC HEAT, ETC.
b. LABOR SHALL INCLUDE THE INSTALLING AND CONNECTING OF MATERIALS NOTED IN PARAGRAPH (1.) AND AS SHOWN ON THE DRAWINGS.

1.2 THE INSTALLATION SHALL COMPLY WITH LOCAL, STATE AND NATIONAL ELECTRICAL CODES. THE ELECTRICAL CONTRACTOR SHALL SECURE AND PAY FOR FEES, PERMITS AND INSPECTIONS.

1.3 BEFORE SUBMITTING A PROPOSAL ON THE WORK CONTEMPLATED, EACH BIDDER SHALL VISIT THE SITE(S) AND FAMILIARIZE THEMSELF WITH ALL EXISTING CONDITIONS AND LIMITATIONS, NO EXTRA COMPENSATION WILL BE ALLOWED BECAUSE OF THE CONTRACTOR'S KNOWLEDGE OF ANY EXISTING CONDITIONS.

1.4 THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH ALL OTHER TRADES. CONTRACTOR TO COORDINATE SCHEDULING OF THE WORK AND TENANT'S SECURITY VENDOR.

1.5 SCOPE OF WORK IS COMPRISED OF THE FOLLOWING:
ELECTRICAL FOR SHOP BUILDING.

26 0010 SUPPLEMENTAL REQUIREMENTS FOR ELECTRICAL:

1.1 SEQUENCING - CONDUCT AND SUBMIT RESULTS OF POWER SYSTEM STUDIES PRIOR TO SUBMITTING PRODUCT DATA AND SHOP DRAWINGS FOR ELECTRICAL EQUIPMENT.

1.2 CLOSE OUT SUBMITTALS — CONTRACTOR TO PROVIDE OPERATION AND EQUIPMENT MANUALS TO OWNER ON USB MEDIA WHICH IS CLEARLY AND PERMANENTLY LABELED.

26 0050 BASIC ELECTRICAL REQUIREMENTS

1.1 TEMPORARY POWER — THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY POWER AND LIGHTING AS MAY BE REQUIRED FOR CONSTRUCTION OR AS REQUIRED TO MAINTAIN CRITICAL OPERATIONS DURING CHANGEOVER OF FEEDERS OR SERVICES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL EQUIPMENT, MAKING ALL ARRANGEMENTS, AND MAKING ALL CONNECTIONS REQUIRED FOR TEMPORARY POWER AND LIGHTING OF ALL TRADES.

1.2 ALL MATERIALS AND EQUIPMENT SHALL CONFORM TO UL OR NRTL STANDARDS AND BE CLEARLY IDENTIFIED WITH NRTL LABEL.

1.3 THE CONTRACTOR SHALL CONFIRM THE LOCATIONS OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING UTILITIES AND TO THE BUILDING.

1.4 CONTRACTOR SHALL BE RESPONSIBLE FOR ELECTRICAL INSPECTION BY AN INDEPENDENTLY APPROVED INSPECTION AGENCY. UPON COMPLETION OF THE WORK THE CONTRACTOR SHALL ADJUST ALL EQUIPMENT AND TEST ALL SYSTEMS AT THE DIRECTION OF OWNER/ENGINEER.

1.5 ALL WORK SHALL BE PERFORMED BY EXPERIENCED AND QUALIFIED PERSONNEL IN A NEAT AND WORKMANLIKE MANNER.

1.6 ALL CIRCUITING SHOWN IS DIAGRAMMATICAL. THE CONTRACTOR SHALL PROVIDE JUNCTION AND PULL BOXES AS REQUIRED BY NFPA 70, NATIONAL ELECTRICAL CODE CURRENT EDITION. ALL SYMBOLS AND ABBREVIATIONS SHOWN ON DRAWINGS ARE NOT NECESSARILY USED HEREIN.

1.7 THE CONTRACTOR SHALL REFER TO DIVISION 23 HVAC MECHANICAL DRAWINGS FOR EXACT LOCATIONS AND MOUNTING OF HVAC MECHANICAL EQUIPMENT.

1.8 PROVIDE ALL MATERIALS, LABOR, EQUIPMENT AND TOOLS NECESSARY FOR A COMPLETE AND WORKABLE ELECTRICAL SYSTEM AS INDICATED ON THE DRAWINGS. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC), LOCAL AND STATE CODES HAVING JURISDICTION AND APPLICABLE MANUFACTURER'S RECOMMENDATIONS.

1.9 IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO VERIFY THE ELECTRICAL CHARACTERISTICS OF ALL EQUIPMENT PROVIDED BY THE ELECTRICAL CONTRACTOR OR FURNISHED BY OTHERS, INCLUDING THE OWNER / TENANT. COORDINATE ANY INCOMPATIBLE ELECTRICAL CHARACTERISTICS WITH ENGINEER PRIOR TO INSTALLATION.

1.10 WHERE CONDUITS PASS THROUGH FIRE RESISTING PORTIONS OF THE STRUCTURE, THE ANNULAR SPACE BETWEEN THE STRUCTURE AND THE CONDUITS SHALL BE FILLED WITH AN APPROVED FIREPROOF MATERIAL.

1.11 THE ELECTRICAL CONTRACTOR SHALL FURNISH THE OWNER WITH A WRITTEN GUARANTEE FOR THE PERIOD OF ONE YEAR AGAINST THE FAILURE OF THE ELECTRICAL SYSTEM DUE TO FAULTY MATERIALS OR WORKMANSHIP. GUARANTEE PERIOD SHALL START AT THE DATE OF THE FINAL ACCEPTANCE BY THE ARCHITECT/ENGINEER. ALL SUCH DEFECTS MUST BE REPAIRED OR DEFECTIVE MATERIALS REPLACED BY THE ELECTRICAL CONTRACTOR AT HIS EXPENSE.

26 0519 LOW VOLTAGE — ELECTRICAL POWER CONDUCTORS AND CABLES

2.1 ALL CONDUCTORS AND CABLE SHALL BE DRAWN COPPER CURRENT — CARRYING CONDUCTOR WITH AN OVERALL INSULATION LAYER OR JACKET, OR BOTH RATED 600V OR LESS.

a. LISTED AND LABELED AS DEFINED IN NFFA 70, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR INTENDED LOCATION AND USE.

b. CONDUCTOR AND CABLE MARKING: COMPLY WITH WIRE AND CABLE MARKING ACCORDING TO UL'S "WIRE AND CABLE MARKING AND APPLICATION GUIDE."

c. THE MINIMUM WIRE SIZE SHALL NOT BE SMALLER THAN #12 AWG GAUGE CONDUCTOR, UNLESS OTHERWISE NOTED ON DRAWINGS. LARGER SIZES SHALL BE USED AS INDICATED ON THE DRAWINGS, BUT IN NO CASE SHALL THE CONDUCTOR BE SMALLER THAN THAT IS REQUIRED BY THE N.E.C.

2.2 CONDUCTOR INSULATION ON SIZE 4 AWG AND SMALLER SHALL BE TYPE THW, THHN, OR THWN-2. COMPLY WITH UL 83.

2.3 CONDUCTOR INSULATION ON SIZE 2 AWG AND LARGER SHALL BE XHHW-2. COMPLY WITH UL 44.

2.4 CONDUCTOR INSULATION FOR VFD BRANCH CIRCUITS SHALL BE XHHW-2.

2.5 CONDUCTORS INSTALLED IN DAMP AND WET LOCATIONS SHALL BE THW AND THW-2.

2.6 MANUFACTURERS — COPPER BUILDING WIRE:

a. ALPHA WIRE COMPANY.

b. BELDEN INC.

c. GENERAL CABLE.

d. OKONITE COMPANY.

e. SOUTHWIRE COMPANY.

3.1 CONDUCTOR MATERIAL APPLICATIONS

a. FEEDERS AND BRANCH CIRCUITS SHALL BE SOLID COPPER FOR 12 AWG AND SMALLER; STRANDED FOR 10 AWG OR LARGER.

3.2 CONDUCTOR INSULATION APPLICATIONS AND WIRING METHODS

a. SERVICE ENTRANCE: TYPE XHHW-2, SINGLE CONDUCTORS IN RACEWAY

b. EXPOSED FEEDERS: TYPE THHN/THWN-2, SINGLE CONDUCTORS IN RACEWAY

c. FEEDERS CONCEALED IN CEILINGS, WALLS, PARTITIONS, AND CRAWLSPACES: TYPE THHN/THWN-2, SINGLE CONDUCTORS IN RACEWAY

d. FIRE ALARM: TYPE THHN/THWN-2, SINGLE CONDUCTORS IN RED RACEWAY.

26 0526 GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS

1.1 THE MATERIALS OF EACH WIRING SYSTEM, METAL RACEWAY SYSTEM, METAL BOXES AND CABINETS, LOAD CENTERS, MOTOR FRAMES AND OTHER PERMANENTLY INSTALLED ELECTRICAL EQUIPMENT SHALL BE SOLIDLY GROUNDED AND BONDED TOGETHER IN ACCORDANCE WITH THE N.E.C.

1.2 ALL RACEWAY, EXCEPT RIGID STEEL CONDUIT, MUST CONTAIN AN INSULATED, CODE SIZED GROUNDING CONDUCTOR. CONDUCTORS SHALL BE INSULATED COPPER WITH THE SAME INSULATION TYPE AS THE OTHER CONDUCTORS CONTAINED WITHIN THE RACEWAY.

26 0533 RACEWAY AND BOXES FOR ELECTRICAL SYSTEMS

1.1 CONDUIT FOR BRANCH CIRCUITS SHALL BE EMT WITH STEEL CONNECTORS AND FITTINGS, PROVIDE BUSHINGS AT BOXES AND CABINETS.

1.2 PROVIDE A GROUNDING CONDUCTOR IN EACH CONDUIT.

1.3 ALL WIRING CONCEALED UNLESS NOTED OTHERWISE.

1.4 MC CABLING SHALL BE ACCEPTABLE FOR SINGLE 20A CIRCUITS IN CONCEALED WALLS. HOME RUNS BACK TO THE PANEL SHALL BE IN CONDUIT.

26 0553 IDENTIFICATION FOR ELECTRICAL SYSTEMS

1.1 IDENTIFICATION OF PANELBOARD, DISCONNECTS, VFD, AND OTHER ELECTRICAL CONTRACTOR EQUIPMENT SHALL CONFORM TO EXISTING BUILDING STANDARDS.

1.2 FOR NEW CONSTRUCTION PANELBOARD, SWITCHBOARDS, DISCONNECTS, AND OTHER ELECTRICAL EQUIPMENT SHALL CONTAIN THE FOLLOWING INFORMATION:
a. FIRST LINE SHALL CONTAIN PANEL NAME AS INDICATED ON DRAWINGS. EXAMPLE: MDP
b. SECOND LINE SHALL CONTAIN PANEL/EQUIPMENT VOLTAGE AND PANEL/EQUIPMENT AMPACITY. EXAMPLE: 480/277V 3PH 4W 400A
c. THIRD LINE SHALL CONTAIN PANEL AND CIRCUIT INFORMATION THAT PANEL/EQUIPMENT IS FED FROM. EXAMPLE: FED FROM MAIN PANEL WITH 400A BREAKER
d. FOURTH LINE SHALL BE CALCULATED FAULT CURRENT AT DEVICE LOCATION. EXAMPLE: CALCULATED FAULT CURRENT 54,324A.

1.3 LABEL SHALL BE ENGRAVED 1/6" PLASTIC DUAL LAYER IMPACT ACRYLIC WITH MATTE SUFACE RATED FOR INDOOR AND OUTDOOR INSTALLATIONS. LABEL SHALL BE SIZED AT 1-1/2" X 3" TO ACCOMMODATE 4 LINES OF TEXT.

1.4 LABEL COLOR FOR NORMAL POWER SHALL BE BLACK WITH WHITE LETTERING. EMERGENCY PANELS SHALL BE RED WITH WHITE LETTERING.

26 0923 LIGHTING CONTROL DEVICES

2.1 PROVIDE LIGHTING CONTROL DEVICES AS NOTED ON DRAWINGS.

2.2 MANUFACTURERS:
a. ACUITY BRANDS INC.
b. WATTSTOPPER
c. CRESTRON
d. OR APPROVED EQUAL

2.3 TIME SWITCHES
a. ELECTRONIC TIME SWTICH SHALL BY INTERMATIC INC OR APPROVED EQUAL.
b. SWITCHES SHALL BE LOCATED IN UL LISTED INCLOSURE AS INDICATED ON DRAWINGS.

2.4 LIGHTING CONTACTORS SHALL BE MECHANICALLY OR ELECTRONICALLY HELD COMBINATION TYPE. SEE DRAWINGS FOR CONTACTOR RATING AND QUANTITY OF POLES.

3.1 INSTALLATION
a. INSTALL AND AIM SENSORS IN LOCATIONS TO ACHIEVE NOT LESS THAN 90 PERCENT COVERAGE OF AREAS INDICATED. DO NOT EXCEED COVERAGE LIMITS SPECIFIED IN MANUFACTUER'S WRITTEN INSTRUCTIONS.

b. OCCUPANCY ADJUSTMENTS: WHEN REQUESTED WITHIN 12-MONTHS FROM DATE OF SUSTANTIAL COMPLETION PROVIDE ON-SITE ASSISTANCE IN ADJUSTING SENSOR TO SUIT ACTUAL OCCUPIED CONDITIONS. PROVIDE UP TO TWO VISITS TO PROJECT DURING OTHER-THAN-NORMAL OCCUPANCY HOURS FOR THIS PURPOSE.

3.2 FIELD QUALITY CONTROL
A. PERFORM THE FOLLOWING TESTS AND INSPECTIONS.
1. OPERATIONAL TEST: AFTER INSTALLING TIME SWITCHES AND SENSORS, AND AFTER ELECTRICAL CIRCUITRY HAS BEEN ENERGIZED, START UNITS TO CONFIRM PROPER UNIT OPERATION.
2. TEST AND ADJUST CONTROLS AND SAFETIES. REPLACE DAMAGED AND MALFUNCTIONING CONTROLS AND EQUIPMENT.

26 2416 PANELBOARDS:

1.1 PANELBOARD SHALL BE DEAD FRONT SAFETY TYPE EQUAL TO SQUARE 'D' NQOD SERIES.

1.2 PANEL SHALL BE EQUIPPED WITH NEUTRAL/GROUND BAR.

1.3 PANEL SHALL BE EQUIPPED WITH FLUSH MOUNT LATCH AND LOCK COMPLETE WITH SIX KEYS. ALL LOCKS SHALL BE KEYED ALIKE.

1.4 MOLDED CASE CIRCUIT BREAKERS SHALL HAVE OVER CENTER TOGGLE-TYPE MECHANISMS, PROVIDING QUICK-MAKE, QUICK-BREAK ACTION. BREAKERS SHALL BE CALIBRATED FOR OPERATION IN AN AMBIENT TEMPERATURE OF 40 DEGREES C. EACH CIRCUIT BREAKER SHALL HAVE TRIP INDICATION BY HANDLE POSITION AND SHALL BE TRIP-FREE. TWO AND THREE POLE BREAKERS SHALL BE COMMON TRIP. EACH CIRCUIT BREAKER SHALL HAVE A PERMANENT TRIP UNIT CONTAINING INDIVIDUAL THERMAL AND MAGNETIC TRIP ELEMENT. CIRCUIT BREAKERS SHALL BE SUITABLE FOR MOUNTING AND OPERATION IN ANY POSITION.

1.5 CONNECTIONS TO THE BUSS SHALL BE BOLT-ON.

26 2726 WIRING DEVICES

1.3 ALL LIGHT SWITCHES SHALL BE QUIET TYPE, 120/277 VOLT, 20 AMPERE SPECIFICATION GRADE, LEVITON OR EQUAL. RECEPTACLES SHALL BE 125 VOLT, 20 AMPERE, DUPLEX GROUNDING TYPE SPECIFICATION GRADE, LEVITON OR EQUAL. COLOR SHALL BE IVORY. PLATES SHALL BE .035" THICK STAINLESS STEEL.

1.4 GROUND FAULT INTERUPTER CIRCUIT (GFIC) RECEPTACLE SHALL BE SPECIFICATION GRADE RATED 125 VOLTS, 20 AMPERES, NEMA 5-R20 CONFIGURATION.

1.5 EXTERIOR RECEPTACLES SHALL BE GFCI RATED WITH EXTRA DUTY DIE-CAST IN-USE ALUMINUM WEATHERPROOF COVER. INTERMATIC WP1250MVXD OR EQUAL.

1.6 BOILER E-STOP DEVICE SHALL BE STOPPER STATION WITH STOPPER STATION SHIELD SS2229ZA-EN OR APPROVED EQUAL.

26 2813 FUSES

1.1 FUSES 600 AMPERES AND BELOW, SHALL BE U.L. CLASS 'RK1' WITH SEPARATE OVERLOAD AND SHORT-CIRCUIT ELEMENTS. SHORT-CIRCUIT ELEMENT SHALL BE PURE SILVER FOR RATINGS ABOVE 60 AMPERES. THE FUSE MUST HOLD 500% OF RATED CURRENT FOR A MINIMUM OF 10 SECONDS AND HAVE AN INTERRUPTING RATING OF 200,000 AMPERES 'RMS' SYMMETRICAL. FUSES SHALL BE EQUAL TO BUSSMAN LOW-PEAK TYPE.

1.2 UNUSUAL MOTOR OR EQUIPMENT STARTING CONDITIONS NECESSITATING FUSE OVER SIZING SHALL BE REFERRED TO THE ELECTRICAL ENGINEER.

26 2816 ENCLOSED SWITCHES AND CIRCUIT BREAKERS

1.1 DISCONNECT SWITCHES SHALL MEET ALL REQUIREMENTS OF NEMA TYPE 'HD' WITH QUICK-MAKE MECHANISM AND FULL COVER INTERLOCK, RATED 600 OR 250 VOLTS AS REQUIRED. FUSIBLE SWITCHES SHALL BE EQUIPPED WITH A U.L. LISTED REJECTION FEATURE TO REFLECT ALL BUT CLASS 'R' FUSES.

26 2913 MOTOR STARTERS:

1.1 MANUAL STARTERS SHALL CONSIST OF A MANUALLY OPERATED TOGGLE SWITCH EQUIPPED WITH MELTING TYPE THERMAL OVERLOAD RELAY. ONE OR TWO POLE STARTERS SHALL BE FURNISHED AS REQUIRED TO DISCONNECT EACH UNGROUNDED CONDUCTOR. STARTERS SHALL BE INSTALLED IN GENERAL PURPOSE ENCLOSURES AND SHALL BE EQUIPPED WITH PILOT LIGHT. STARTERS SHALL BE EQUAL TO SQUARE 'D' CLASS #2510 UNLESS OTHERWISE DESIGNATED.

1.2 HEATERS SHALL BE FURNISHED BY THIS CONTRACTOR AND SIZED IN ACCORDANCE WITH EQUIPMENT OR MOTOR MANUFACTURER'S RECOMMENDATIONS. THREE POLE STARTERS SHALL BE PROVIDED WITH OVERLOAD PROTECTION ON EACH POLE.

26 5619 LED LIGHTING FIXTURES

1.1 THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL LIGHT FIXTURES AS INDICATED ON THE DRAWINGS.

1.2 LIGHT FIXTURES SHALL BE SECURELY FASTENED TO WALL OR CEILING.

27 1513 COMMUNICATIONS COPPER HORIZONTAL CABLING

1.1 CONTRACTOR SHALL PROVIDE TELEPHONE AND/OR DATA OUTLET BOXES, BLANK COVERS, AND CAT 6 PLENUM RATED WIRING FOR EACH JACK BACK TO THE TELEPHONE BACKBOARD.

1.2 TELEPHONE AND/OR DATA SYSTEM WIRING SHALL BE INSTALLED IN ¾ INCH EMT, UNLESS NOTED OTHERWISE. CONTRACTOR SHALL STUB ALL CONDUITS ABOVE SUSPENDED CEILING FOR WIRING TO TELEPHONE AND/OR DATA EQUIPMENT AREA. THE WIRING SHALL BE LOW VOLTAGE WIRING, NEC TYPE: CL3P. CAT 6 PLENUM RATED WIRING SHALL BE USED FOR ALL DATA OUTLETS AND ALL VOICE OUTLETS.

1.3 CONTRACTOR SHALL REFER TO DIVISION 0 FOR ADDITIONAL PHONE/DATA AND FIRE/SECURITY ALARM REQUIREMENTS.

1.4 THE CONTRACTOR SHALL LOCATE TELEPHONE AND/OR DATA OUTLETS AS INDICATED ON THE DRAWINGS AND IN ACCORDANCE WITH TENANT'S REQUIREMENTS.

Revit Version: 2026
Plot Date: 2/20/2026 2:58:51 PM

EAPC
Architecture | Engineering
Interior Design | Industrial
TELEPHONE 701.461.7222
112 No.Roberts Street, Suite 300, Fargo ND 58102
www.eapc.net

CLIENT
WATFORD CITY PARK DISTRICT

PROJECT DESCRIPTION
WATFORD CITY PARK SHOP

CITY WATFORD CITY
STATE ND

ISSUE DATES

MARK	DESCRIPTION	DATE
CD	RE-BID	05/20/2026

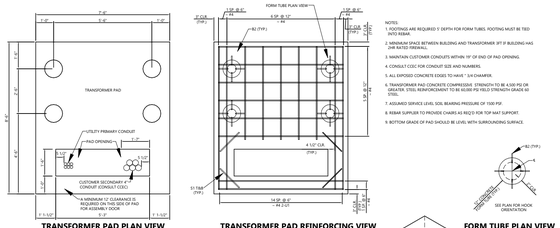
PROJECT NO: 20262250
DRAWN BY: TA
CHECKED BY: BW

STAMP

REGISTERED PROFESSIONAL ENGINEER
BRIAN WENTLAND
PE-27191
DATE 05/20/2026
NORTH DAKOTA

DRAWING TITLE
SPECIFICATIONS

E050



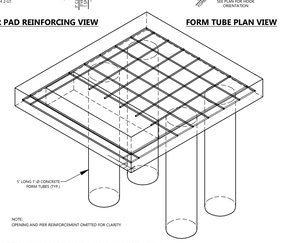
TRANSFORMER PAD PLAN VIEW

TRANSFORMER PAD REINFORCING VIEW

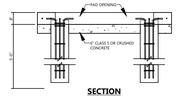
NOTES:
1. FOOTINGS ARE REQUIRED 5' DEPTH FOR FORM TUBES. FOOTING MUST BE TIED INTO REBAR.
2. MINIMUM SPACE BETWEEN BUILDING AND TRANSFORMER 3FT IF BUILDING HAS 1HR RATED FIREWALL.
3. MAINTAIN CUSTOMER CONDUITS WITHIN 19' OF END OF PAD OPENING.
4. CONSULT CEC FOR CONDUIT SIZE AND NUMBERS.
5. ALL EXPOSED CONCRETE EDGES TO HAVE 1 3/4 CHAMFER.
6. TRANSFORMER PAD CONCRETE COMPRESSIVE STRENGTH TO BE 4,500 PSI OR GREATER. STEEL REINFORCEMENT TO BE 60,000 PSI YIELD STRENGTH GRADE 60 STEEL.
7. ASSUMED SERVICE LEVEL SOIL BEARING PRESSURE OF 1500 PSF.
8. REBAR SUPPLIER TO PROVIDE CHAIRS AS REQ'D FOR TOP MAT SUPPORT.
9. BOTTOM GRADE OF PAD SHOULD BE LEVEL WITH SURROUNDING SURFACE.

B2 BAR DETAIL

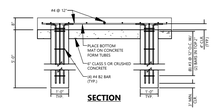
S1 BAR DETAIL



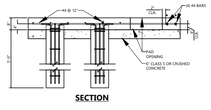
TRANSFORMER PAD REINFORCING VIEW



SECTION



SECTION



SECTION

2 E100 TRANSFORMER PAD DETAIL

NOT TO SCALE

GENERAL NOTES

UTILITY COORDINATION NOTES:

COORDINATE WITH MONTANA-DAKOTA UTILITIES AND REC TELECOMMUNICATIONS UTILITY ON SERVICE REQUIREMENTS. EC SHALL COVER ALL INSTALLATION COSTS FROM UTILITY IN BASE BID.

- MONTANA-DAKOTA UTILITIES:
  1. LACEY LEE - (406) 989-1327
- RTC NETWORKS:
  1. PAT FITZGERALD (701) 898-1911
  2. JUSTINE BENTZ (701) 580-6028

KEYNOTE LEGEND:

< < < INDICATES KEYNOTE ON PLAN

1. UTILITY TRANSFORMER AND CT CABINET LOCATION. SEE DETAIL 2/E100. COORDINATE WITH MONTANA-DAKOTA UTILITIES.
2. PROVIDE 2" C TO FUTURE WARMING HOUSE. COORDINATE LOCATION WITH OWNER.

ELECTRICAL SITE COORDINATION:

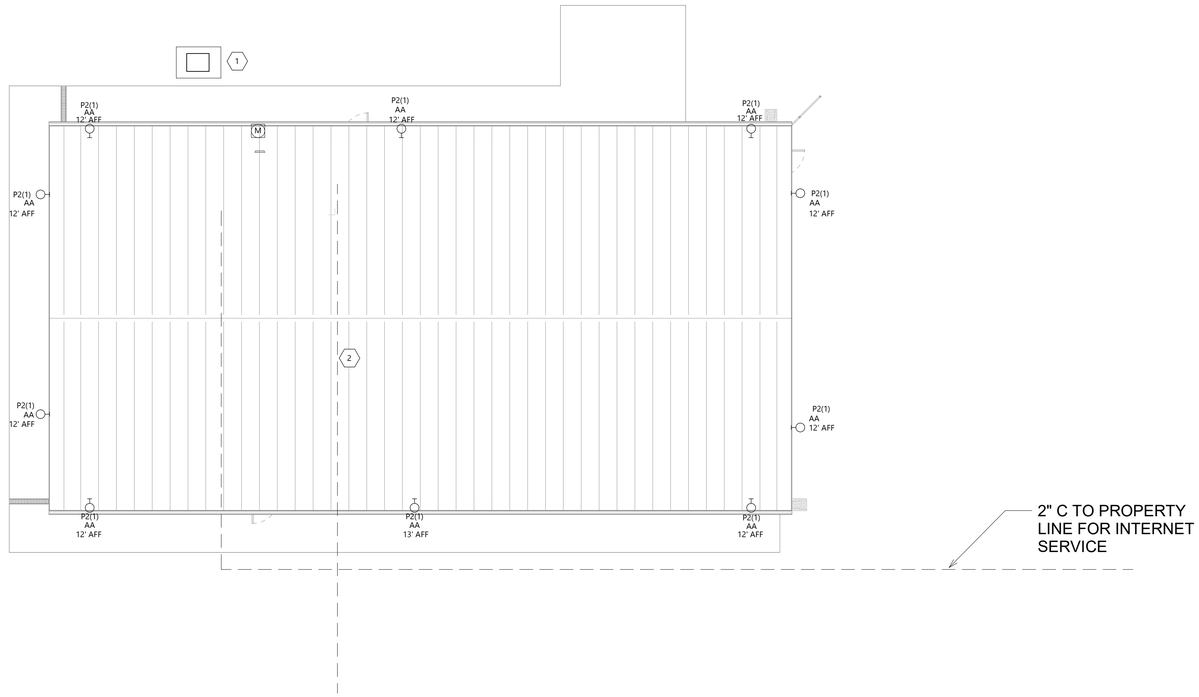
THE LOCATION, CAPACITY, AND VOLTAGE OF THE LINES ARE ALL IN ACCORDANCE WITH DATA GIVEN THIS OFFICE BY THE UTILITY COMPANY. COORDINATE WITH THE LOCAL UTILITY COMPANY THE INSTALLATION OF THE ELECTRICAL SERVICE. COMPLY WITH UTILITY REGULATIONS. REPORT DISCREPANCIES TO THE ENGINEER.

ELECTRIC UTILITY

MONTANA-DAKOTA UTILITIES CO:
LACEY LEE
107 10TH ST SW, WATFORD CITY, ND 58854
(406) 989-1327

COMMUNICATIONS UTILITY:

RTC NETWORKS
PAT FITZGERALD
(701) 898-1911
JUSTINE BENTZ
(701) 580-6028



1 E100 ELECTRICAL SITE PLAN

1/8" = 1'-0"

N

EAPC
Architecture | Engineering
Interior Design | Industrial
TELEPHONE 701.461.7222
112 No.Roberts Street, Suite 300, Fargo ND 58102
www.eapc.net

CLIENT
WATFORD CITY PARK DISTRICT

PROJECT DESCRIPTION
WATFORD CITY PARK SHOP

CITY WATFORD CITY
STATE ND

ISSUE DATES

MARK	DESCRIPTION	DATE
CD	RE-BID	05/20/2026

PROJECT NO: 20262250
DRAWN BY: TA
CHECKED BY: BW

STAMP

PROFESSIONAL ENGINEER
BRIAN MENTLIK
PE-27191
DATE 05/20/2026
REGISTERED NORTH DAKOTA

DRAWING TITLE
ELECTRICAL SITE PLAN

E100

Revit Version: 2026
Plot Date: 1/20/2026 2:58:51 PM

GENERAL NOTES

A. LABEL ALL JUNCTION BOXES ABOVE ACCESSIBLE CEILING WITH INDELIBLE INK TO INDICATE PANEL AND CIRCUIT.

B. LABEL ALL HOMERUNS WITH INDELIBLE INK TO INDICATE PANEL AND CIRCUIT.

C. PROVIDE APPROVED FIRE PROOFING MATERIALS / METHODS FOR CABLE PASSING THROUGH FIRE WALLS AND FLOORS.

D. LABEL ALL DEVICES, INCLUDING SWITCHES, TO INDICATE PANEL AND CIRCUIT. USE ADHESIVE MYLAR TAPE.

E. PROVIDE #10 CONDUCTORS THROUGHOUT ALL 120V, 20A BRANCH CIRCUIT OF 100'-0" OR GREATER IN LENGTH.

F. PROVIDE ALL DEVICES AND ASSOCIATED WIRING AS SHOWN.

G. ALL CONDUIT, WIRE, AND BOXES SHALL BE CONCEALED UNLESS NOTED OTHERWISE.

H. GFCI RECEPTACLES SHALL ONLY PROTECT THE INDIVIDUAL DEVICE.

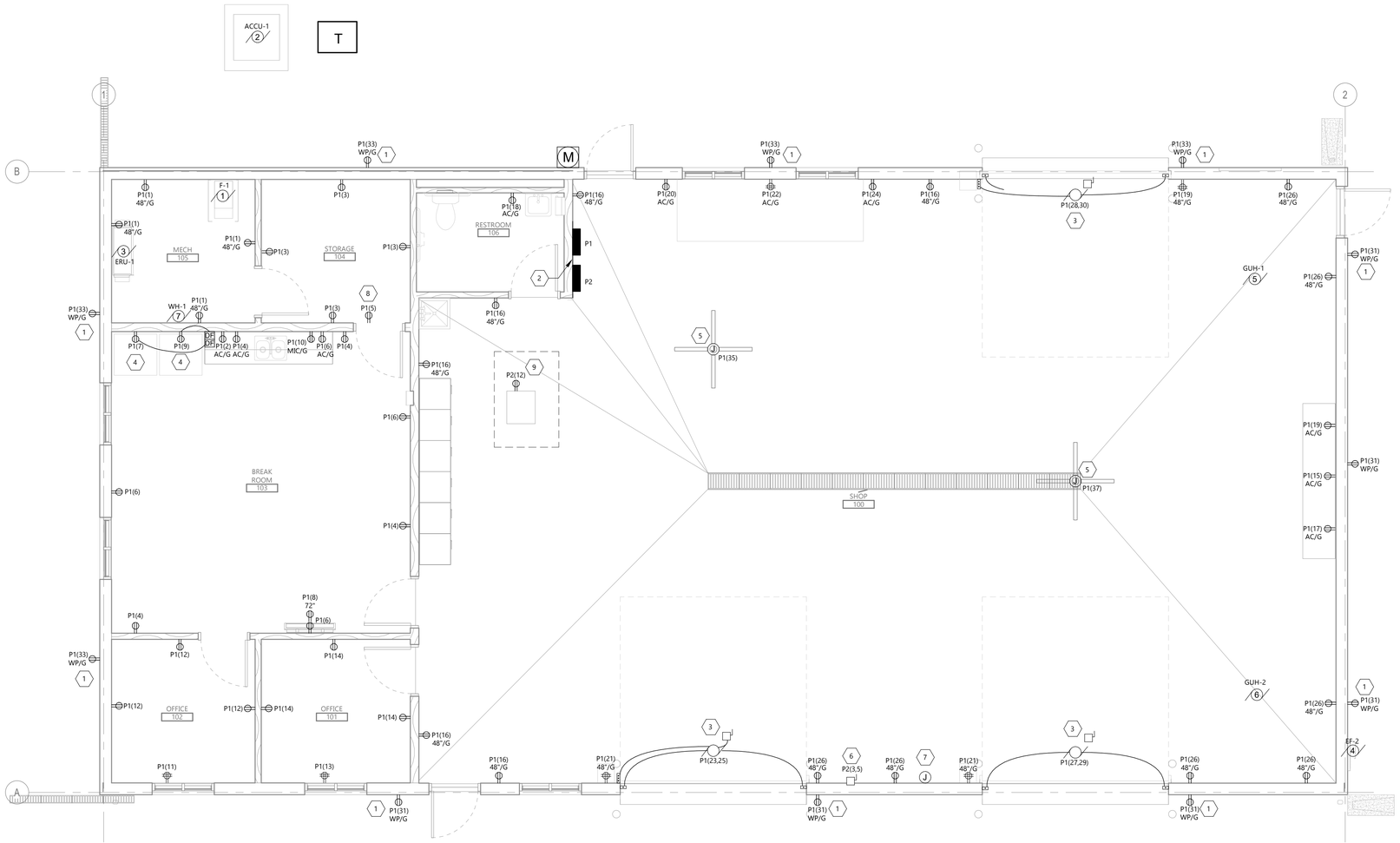
I. MULTI-BRANCH CIRCUITING SHALL NOT BE ALLOWED UNLESS NOTED OTHERWISE. PROVIDE A SEPARATE NEUTRAL FOR EACH CIRCUIT.

J. SEE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS AND LOCATIONS.

KEYNOTE LEGEND:

⬡ < < < INDICATES KEYNOTE ON PLAN

1. PROVIDE A GFCI/WP IN-USE RECEPTACLE OUTLET WITH DIECAST COVER AS MANUFACTURED BY INTERMATIC MODEL WP1250MVXD OR EQUAL.
2. PROVIDE 3/4" GRAY PAINTED, FIRE RETARDANT PLYWOOD FROM FLOOR TO 8' ON WALLS OF ROOM FOR MOUNTING OF EQUIPMENT.
3. PROVIDE CONNECTION TO OVERHEAD DOOR OPERATOR PROVIDED BY GC. EC SHALL PROVIDE 3/4" CONDUIT FROM THE MOTOR TO THE JUNCTION BOXES FOR SAFETY SENSORS. PROVIDE A 3/4" CONDUIT TO EACH OF THE DOOR CONTROL SWITCHES FROM MOTOR. COORDINATE WIRING WITH MANUFACTURER INSTRUCTIONS.
4. PROVIDE A DUPLEX RECEPTACLE MOUNTED 36" BEHIND REFRIDGERATOR AND ONE DEAD FRONT GFCI DEVICE ABOVE COUNTER. WIRE REFRIDGERATOR RECEPTACLE OUTLET TO LOAD SIDE OF DEAD FRONT GFCI DEVICE.
5. PROVIDE HUNTER MODEL 52-718 (OR EQUAL) CEILING FAN WITH HAND HELD REMOTE. COORDINATE LOCATION AND SUSPENSION HEIGHT WITH ARCHITECT. PROVIDE TOGGLE DISCONNECT AT UNIT.
6. PROVIDE 2#6 + #10G IN 1"C AND A 60A/2P NON-FUSED DISCONNECT FOR WELDER CONNECTION.
7. CONNECT CO/NO2 CONTROL PANEL AND PROVIDE SWITCH. PROVIDE WIRE TO ALL SENSORS USE 1/2" C AND WIRING HEIGHTS AS REQUIRED BY MC. WIRE TO TURN ON EF-2 (M#4) UPON ALARM. PROVIDE RELAYS AS REQUIRED.
8. MOUNT RECEPTACLE ABOVE DOOR NEAR DATA RACK.
9. PROVIDE FIXTURE AND SWITCH AND RECEPTACLE IN ATTIC SPACE. COORDINATE FINAL LOCATION PRIOR TO ROUGH-IN.



1 E201 FIRST FLOOR POWER PLAN

1/4" = 1'-0"

N

Revit Version: 2026
Plot Date: 5/20/2026 2:58:51 PM

EAPC

Architecture | Engineering
Interior Design | Industrial

TELEPHONE 701.461.7222

112 No.Roberts Street, Suite 300, Fargo ND 58102

www.eapc.net

CLIENT

WATFORD CITY PARK DISTRICT

PROJECT DESCRIPTION

WATFORD CITY PARK SHOP

CITY WATFORD CITY

STATE ND

ISSUE DATES

MARK	DESCRIPTION	DATE
CD	RE-BID	05/20/2026

PROJECT NO: 20262250

DRAWN BY: TA

CHECKED BY: BW

STAMP

REGISTERED PROFESSIONAL ENGINEER
BRIAN WENTLAND
PE-27191
DATE 05/20/2026
NORTH DAKOTA

DRAWING TITLE

FIRST FLOOR POWER PLAN

E201

GENERAL NOTES

A. LIGHTING ALL JUNCTION BOXES ABOVE ACCESSIBLE CEILING WITH INDELIBLE INK TO INICATE PANEL AND CIRCUIT.

B. LABEL ALL HOME RUNS WITH INDELIBLE INK TO INDICATE PANEL AND CIRCUIT.

C. PROVIDE APPROVED FIRE PROOFING MATERIALS / METHODS FOR CABLE PASSING THROUGH FIRE WALLS AND FLOORS.

D. LABEL ALL DEVICES INCLUDING SWITCHES, TO INDICATE PANEL AND CIRCUIT. USE ADHESIVE MYLAR TYPE.

E. PROVIDE #10 CONDUCTORS THROUGHOUT ALL 120V, 20A BRANCH CIRCUIT OF 100'-0" OR GREATER IN LENGTH.

F. PROVIDE ALL DEVICES AND ASSOCIATED WIRING AS SHOWN.

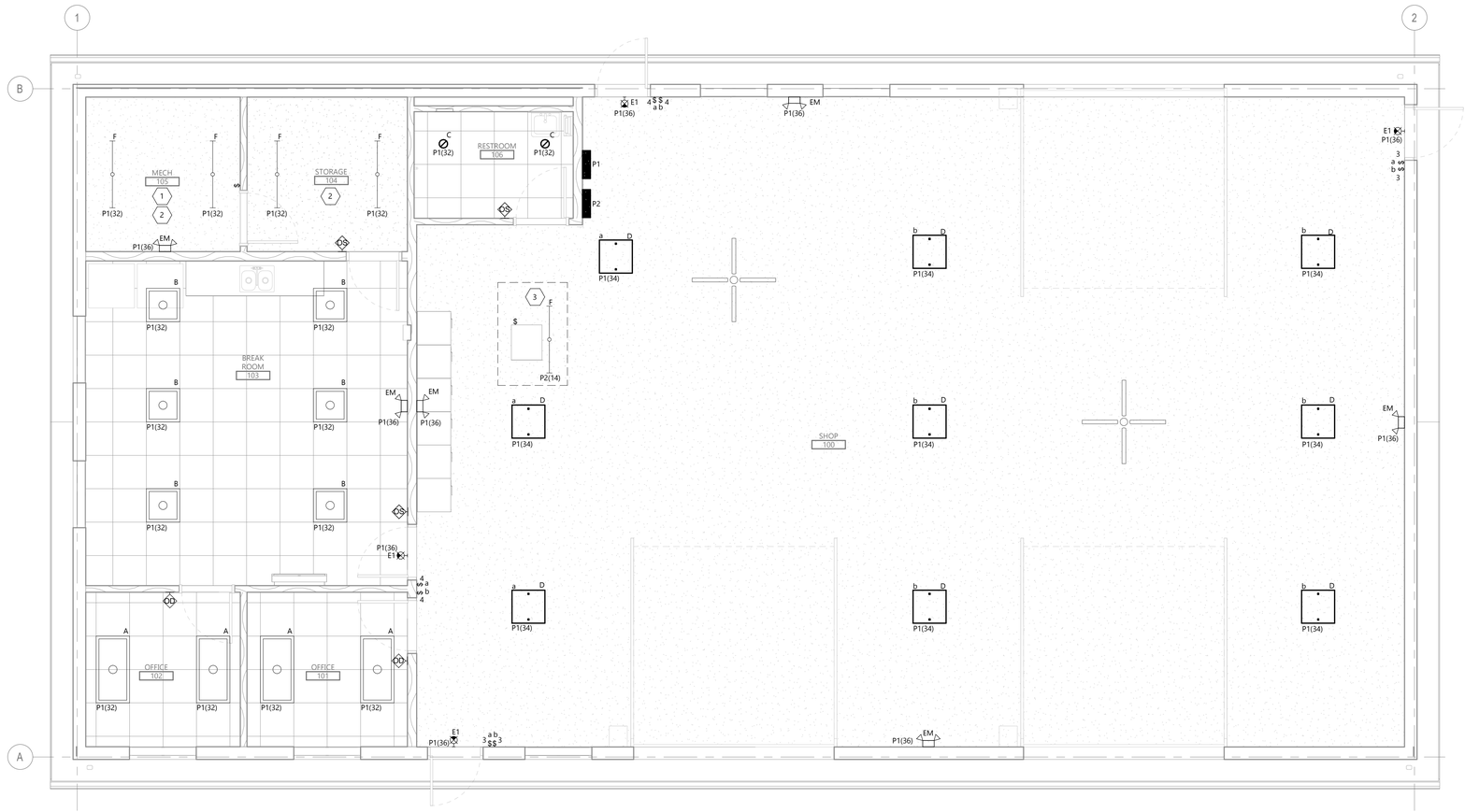
G. MC CABLE SHALL BE USED IN WALLS FOR SINGLE CIRCUIT RUNS AND SWITCH LEGS. SWITCH LEGS SHALL CONTAIN ONE EXTRA CONDUCTOR. MC CABLE MAY NOT BE USED ABOVE CEILING IN ANY INSTANCE, AND MAY NOT BE USED IN WALLS OF ROOMS THAT DO NOT HAVE ACCESSIBLE CEILING. DO NOT USE THROUGH SMOKE / FIRE WALLS. DO NOT USE IN EXPOSED AREAS.

H. OCCUPANCY SENSORS ARE SHOWN FOR INTENT PURPOSES ONLY. LOCATION, SPACING, AND QUANTITY WILL DEPEND ON SELECTED MANUFACTURER.

KEYNOTE LEGEND:

< < < INDICATES KEYNOTE ON PLAN

1. COORDINATE EXACT LUMINAIRE LOCATION WITH MECHANICAL EQUIPMENT THIS ROOM PRIOR TO ROUGH-IN.
2. FIXTURES IN ROOM SHALL BE MOUNTED AT 9' ABOVE FINISHED FLOOR.
3. PROVIDE FIXTURE AND SWITCH AND RECEPTACLE IN ATTIC SPACE. COORDINATE FINAL LOCATION PRIOR TO ROUGH-IN.



1 E301 FIRST FLOOR LIGHTING PLAN

1/4" = 1'-0"

N

Revit Version: 2026
Plot Date: 5/20/2026 2:28:51 PM

EAPC

Architecture	Engineering
Interior Design	Industrial

TELEPHONE 701.461.7222

112 No.Roberts Street, Suite 300, Fargo ND 58102

www.eapc.net

CLIENT

WATFORD CITY PARK DISTRICT

PROJECT DESCRIPTION

WATFORD CITY PARK SHOP

CITY WATFORD CITY

STATE ND

ISSUE DATES

MARK	DESCRIPTION	DATE
CD	RE-BID	05/20/2026

PROJECT NO: 20262250

DRAWN BY: TA

CHECKED BY: BW

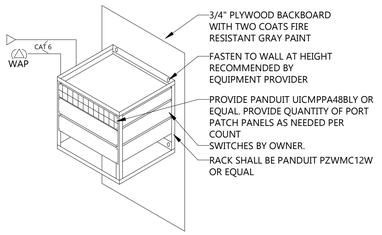
STAMP

REGISTERED PROFESSIONAL ENGINEER
BRIAN WENTLAND
PE-27191
DATE 05/20/2026
NORTH DAKOTA

DRAWING TITLE

FIRST FLOOR LIGHTING PLAN

E301



2 E401 WALL MOUNTED DATA RACK

NOT TO SCALE

GENERAL NOTES

A. PROVIDE APPROVED FIRE PROOFING MATERIALS / METHODS FOR CABLE PASSING THROUGH FIRE WALLS AND FLOORS.

B. DATA CABLE SHALL BE CAT6 PLENUM RATED UNLESS NOTED OTHERWISE. CABLE COLOR SHALL BE BLUE UNLESS NOTED OTHERWISE OR COLOR AS REQUIRED BY OWNER STANDARDS.

C. ALL DATA AND PAGING SYSTEMS CABLING SHALL TERMINATE IN RACK LOCATED IN ROOM STORAGE 104.

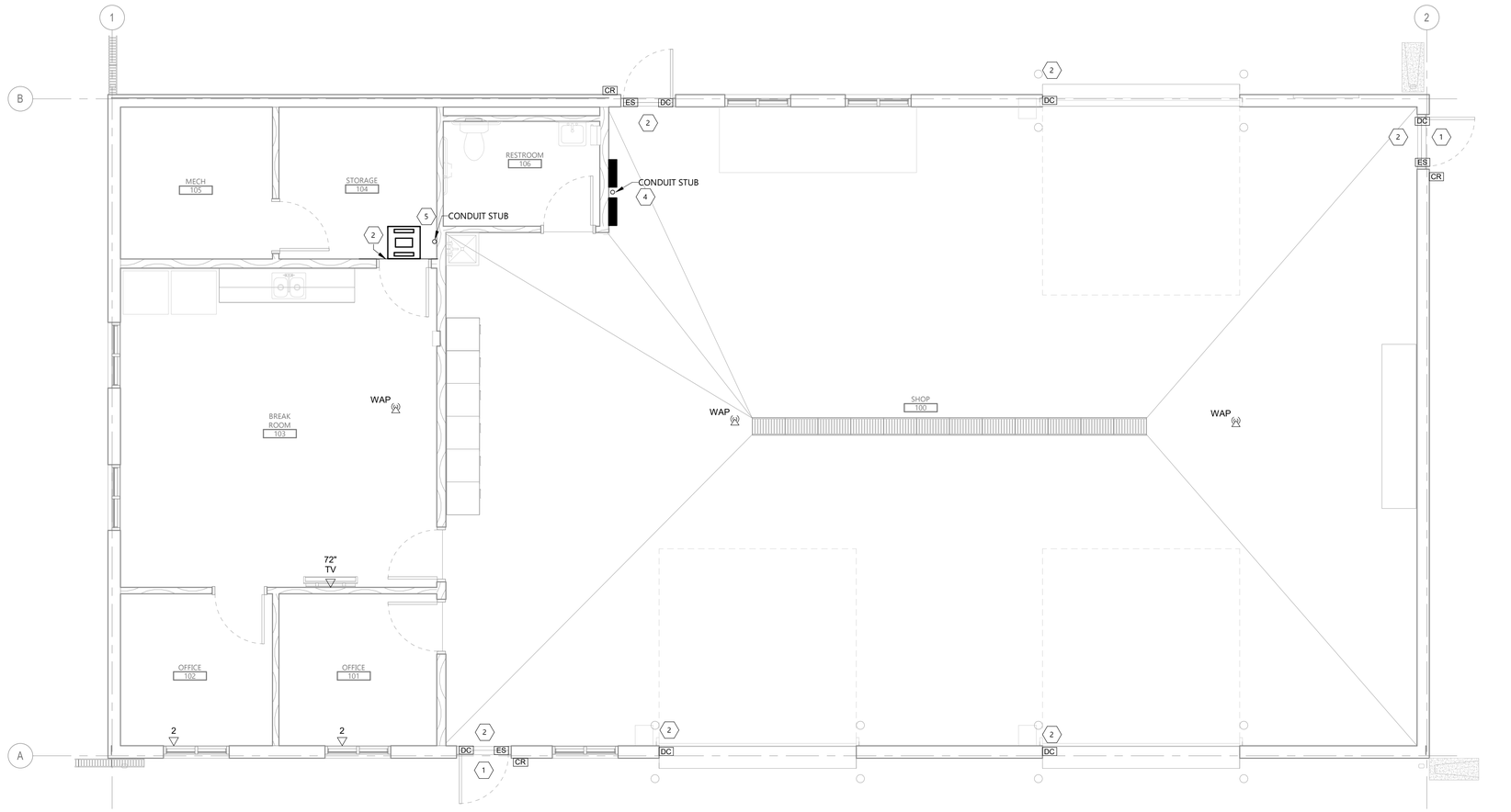
D. PROVIDE 4" HILTI-PASS THRU FOR CABLE PASSING THROUGH FIRE WALLS AND FLOORS. SEE FIRE PROTECTION PLANS FOR LOCATION OF RATED WALLS. PENETRATIONS THROUGH FIRE RATED WALLS, PARTITIONS, FLOORS OR CEILING SHALL BE FIRE STOPPED USING APPROVED METHODS TO MAINTAIN THE FIRE-RESISTANCE RATING.

E. COORDINATE MOUNTING HEIGHTS AND LOCATIONS FOR ALL WALL MOUNTED ELECTRICAL DEVICES WITH ARCHITECTURAL ELEVATIONS. COORDINATE ALL CEILING MOUNTED ELECTRICAL DEVICES WITH ARCHITECTURAL REFLECTED CEILING PLAN.

KEYNOTE LEGEND:

< < < INDICATES KEYNOTE ON PLAN

1. ELECTRICAL CONTRACTOR TO COORDINATE INSTALLATION OF POWER SUPPLIES FOR CARD READERS WITH DOOR HARDWARE SUPPLIER. PROVIDE 120VAC WHERE POWER SUPPLIES ARE REQUIRED. PROVIDE PRIMUS ACCESS CONTROL COMPOSITE CABLE PLENUM CMP/CL2P #18/4, #22/4, #22/2, 22/3 SHIELDED BANANA CABLING OR APPROVED EQUAL. SEE 1/E804.
2. PROVIDE 3/4" GRAY PAINTED, FIRE RETARDANT PLYWOOD ABOVE ROOM DOOR FOR MOUNTING OF DATA RACK.
3. PROVIDE 2" CONDUIT STUB FOR FUTURE WARMING HOUSE CONNECTION. SEE 1/E100.
4. PROVIDE 2" CONDUIT STUB FOR INTERNET SERVICE CONNECTION. SEE 1/E100.



1 E401 FIRST FLOOR SYSTEMS PLAN

1/4" = 1'-0"

Revit Version: 2026
Plot Date: 5/20/2026 2:58:51 PM

EAPC
Architecture | Engineering
Interior Design | Industrial
TELEPHONE 701.461.7222
112 No.Roberts Street, Suite 300, Fargo ND 58102
www.eapc.net

CLIENT
WATFORD CITY PARK DISTRICT

PROJECT DESCRIPTION
WATFORD CITY PARK SHOP

CITY WATFORD CITY
STATE ND

ISSUE DATES

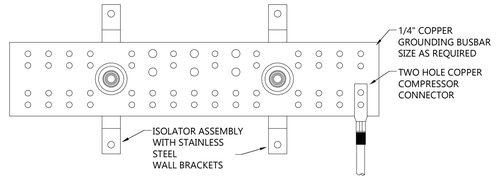
MARK	DESCRIPTION	DATE
CD	RE-BID	05/20/2026

PROJECT NO: 20262250
DRAWN BY: TA
CHECKED BY: BW

STAMP

DRAWING TITLE
FIRST FLOOR SYSTEMS PLAN

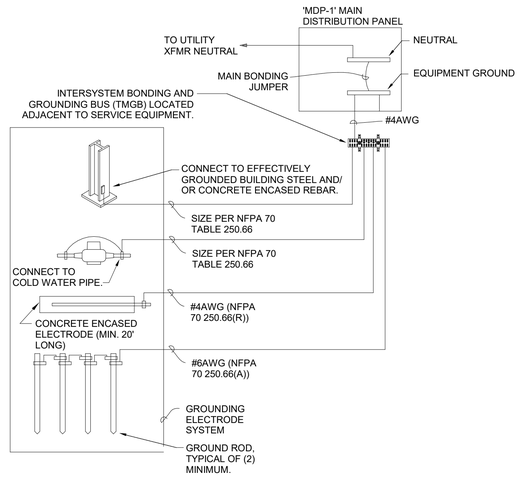
E401



3 E801

GROUND BAR DETAIL

1/8" = 1'-0"



2 E801

POWER SYSTEM GROUND DETAIL

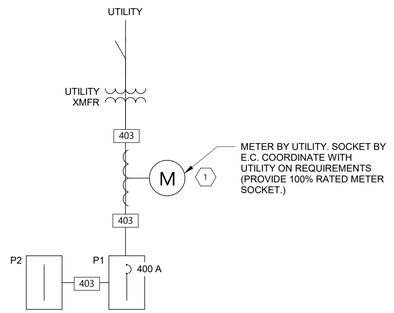
1/8" = 1'-0"

FEEDER SCHEDULE ALUMINUM		
AMPACITY	FEEDER TAG	CONDUIT & THHN WIRE 75°C
40	43A	1" C - 3 #6 & 1 #8 GND
200	204A	3" C - 4 #250KCMIL & 1 #4 GND

FEEDER SCHEDULE COPPER		
AMPACITY	FEEDER TAG	CONDUIT & THHN WIRE 75°C
20	22	3/4" C - 2 #12 & 1 #12 GND
400	403	(2) 2 1/2" C – 3 #3/0 & 1 #3 GND

SHEET NOTES

1. METER SOCKET SHALL BE EQUIPPED WITH LEVER BYPASS AND SHALL BE SELECTED FROM MDU APPROVED METER SOCKETS.



1 E801

FEEDER RISER DIAGRAM

NOT TO SCALE

EAPC
Architecture | Engineering
Interior Design | Industrial
TELEPHONE 701.461.7222
112 No.Roberts Street, Suite 300, Fargo ND 58102
www.eapc.net

CLIENT
WATFORD CITY PARK DISTRICT

PROJECT DESCRIPTION
WATFORD CITY PARK SHOP

CITY WATFORD CITY
STATE ND

ISSUE DATES

MARK	DESCRIPTION	DATE
CD	RE-BID	05/20/2026

PROJECT NO: 20262250
DRAWN BY: TA
CHECKED BY: BW

STAMP

REGISTERED PROFESSIONAL ENGINEER
BRIAN WENTLAND
PE-27191
DATE 05/20/2026
NORTH DAKOTA

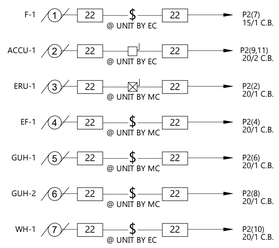
DRAWING TITLE
ONE-LINE DIAGRAM

E801

Revit Version: 2026
Plot Date: 12/2/2026 2:58:53 PM

FEEDER SCHEDULE COPPER		
AMPACITY	FEEDER TAG	CONDUIT & THHN WIRE 75°C
20	22	3/4" C - 2 #12 & 1 #12 GND
400	403	(2) 2 1/2" C – 3 #3/0 & 1 #3 GND

FEEDER SCHEDULE ALUMINUM		
AMPACITY	FEEDER TAG	CONDUIT & THHN WIRE 75°C
40	43A	1" C - 3 #6 & 1 #8 GND
200	204A	3" C - 4 #250KCMIL & 1 #4 GND



1 / E802 MOTOR RISER

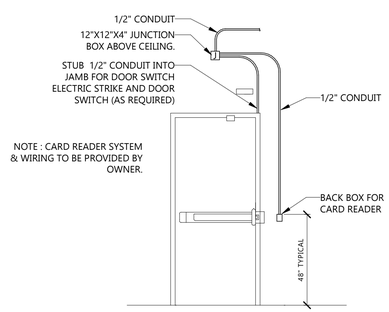
NOT TO SCALE

MOTOR AND EQUIPMENT SCHEDULE

LEGEND:
CM - COMBINATION
CB - CIRCUIT BREAKER
EC - ELECTRICAL CONTRACTOR
EX - EXISTING
F - FUSED
M2 - MAGNETIC TWO SPEED
M - MAGNETIC
MC - MECHANICAL CONTRACTOR
MM - MANUAL
NA - NOT APPLICABLE
NF - NON FUSED
OW - OWNER
TC - TEMPERATURE CONTRACTOR
RF - ROOF
RM - ROOM
RPB - REMOTE PUSHBUTTON
SC - SELF CONTAINED
VC - VENTILATION CONTRACTOR
WP - WEATHERPROOFED

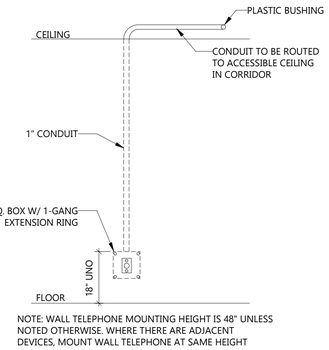
DESCRIPTION	MOTOR #	FURN BY	LOCATION ROOM #	HP	KW	MCA	FLA	MOP	VOLTAGE	PH (Ø)	STARTER			CONTROL		POWER WIRING	INTERLOCKS		DISCONNECT			NOTES
											TYPE	SIZE	BY	BY	WIRING		BY	TO	BY	SIZE/TYPE	NEMA	
F-1	1	MC				7.8		15	120 V	1				MC	MC	EC			EC	TOGGLE		
ACCU-1	2	MC				15		20	240 V	1				TC	TC	EC			EC	30/2/NF	3R	
ERU-1	3	MC				12.2	5.4	15	120 V	1				TC	TC	EC			MC			
EF-1	4	MC		.5			9.8		120 V	1				MC	MC	EC			MC			
GUH-1	5	MC		.25			5.8		120 V	1				MC	MC	EC			MC			
GUH-2	6	MC		.25			5.8		120 V	1				MC	MC	EC			MC			
WH-1	7	MC					5		120 V	1				MC	MC	EC			EC	TOGGLE		

NOTES:
1. NOTE
2. NOTE
3. NOTE



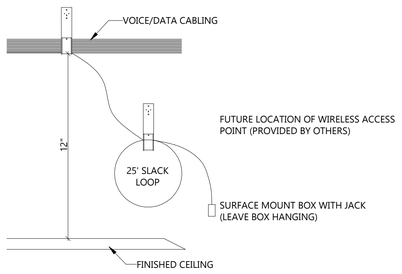
6 / E802 SINGLE DOOR CARD READER ROUGH-IN DETAIL

1/8" = 1'-0"



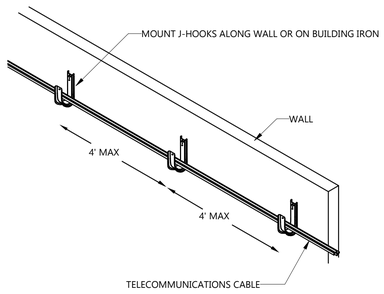
5 / E802 DATA/TELEPHONE ROUGH-IN DETAIL

1/8" = 1'-0"



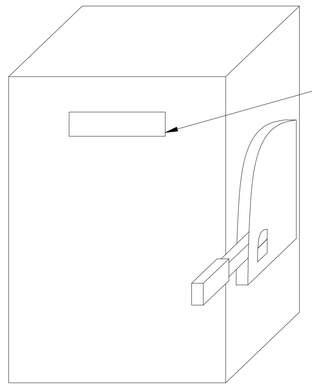
4 / E802 TYPICAL WIRELESS ACCESS POINT DETAIL

1/8" = 1'-0"



3 / E802 J-HOOK ROUTING DETAIL

1/2" = 1'-0"



PROVIDE PLASTIC ENGRAVED NAMEPLATE WITH WHITE LETTERING AND BLACK BACKGROUND. EQUIPMENT FED FROM EMERGENCY POWER SHALL HAVE RED BACKGROUND WITH WHITE LETTERING. NAMEPLATE SHALL BE MOUNTED WITH STAINLESS STEEL HARDWARE. LABEL SHALL CONTAIN THE FOLLOWING. PROVIDE LABELS FOR ALL MCC, SWITCHBOARDS, SWITCHGEAR, PANEL BOARDS, TRANSFORMERS, DISCONNECT, VFD'S AND ELECTRICAL ENCLOSURES HOUSING PROTECTIVE BREAKERS.

"EQUIPMENT NAME"
"EQUIPMENT VOLTAGE"
"EQUIPMENT AMPERAGE/POLES"
"EQUIPMENT FED FROM"
"FAULT CURRENT"

EXAMPLE

DISCONNECT P-1
480V
100A/3P
FED FROM HP-1
FAULT CURRENT - 6,541 A

2 / E802 EQUIPMENT NAMEPLATE DETAIL

1/8" = 1'-0"

EAPC
Architecture | Engineering
Interior Design | Industrial
TELEPHONE 701.461.7222
112 No.Roberts Street, Suite 300, Fargo ND 58102
www.eapc.net

CLIENT
WATFORD CITY PARK DISTRICT

PROJECT DESCRIPTION
WATFORD CITY PARK SHOP

CITY WATFORD CITY
STATE ND

ISSUE DATES

MARK	DESCRIPTION	DATE
CD	RE-BID	05/20/2026

PROJECT NO: 20262250
DRAWN BY: TA
CHECKED BY: BW

STAMP

REGISTERED PROFESSIONAL ENGINEER
BRIAN WENTLAND
PE-27191
DATE 05/20/2026
NORTH DAKOTA

DRAWING TITLE
MOTOR & EQUIPMENT SCHEDULE & RISER

E802

Revit Version: 2026
Plot Date: 5/20/2026 2:58:52 PM

LIGHTING CONTROL SCHEDULE

SYMBOL	MANUFACTURER	CATALOG NAME	MOUNTING			VOLTAGE		TYPE			NOTES	DESCRIPTION
			WALL	CLING	ABV. CLG	LINE	LOW	OCCUPANCY	VACANCY	OTHER		
OS	SENSOR SWITCH	CM PDT 9/10 R D		X			X	X			5	CEILING MOUNTED SENSOR, DUAL TECHNOLOGY, SMALL OR LARGE MOTION TO BE DETERMINED BY MANUFACTURER, LOW VOLTAGE RELAY, DIMMING OPTION
OD	SENSOR SWITCH	WSX PDT D	X			X		X				WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR WITH INTEGRAL 0-10V DIMMING WITH ON/OFF BUTTON
OS	SENSOR SWITCH	WSX PDT	X			X		X				WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR WITH ON/OFF SWITCH
$	NLIGHT	NPODMA	X				X					SWITCH SHALL BE MINIMUM TWO BUTTON FOR ON AND OFF UNLESS NOTED OTHERWISE ON THE DRAWINGS. CAT6 CONNECTION BETWEEN DEVICE AND POWER PACK.
$	NLIGHT	NPODMA DX	X				X					DIMMER SWITCH SHALL BE MINIMUM ON/OFF BUTTON WITH SEPERATE BUTTONS FOR DIMMING UP AND DIMMING DOWN UNLESS NOTED OTHERWISE ON DRAWINGS. CAT 6 CONNECTION BETWEEN DEVICE AND POWER PACK
ϕ	LUTRON OR EQUAL	DIVA	X								4	120/277V 20A ROCKER SWITCH WITH 0-10V DIMMING. MULTI-WAY SWITCHING TO BE DETERMINED BY THE ELECTRICAL CONTRACTOR FOR SPACE REQUIREMENTS.
$	LUTRON OR EQUAL	20A TOGGLE SWITCH	X								3	120/277V 20A TOGGLE SWITCH. MULTI-WAY SWITCHING TO BE DETERMINED BY THE ELECTRICAL CONTRACTOR FOR SPACE REQUIREMENTS.

GENERAL NOTES:

A. ALL SENSORS ARE SHOWN FOR CONTROL PURPOSE ONLY; ADDITIONAL DEVICE/POWER MAY BE REQUIRED FOR A COMPLEX SYSTEM. VERIFY REQUIRED DEVICES WITH SYSTEM PROVIDER AND INSTALL COMPLETE SYSTEM.
B. WIRE LIGHTING CONTROL COMPONENTS PER MANUFACTURERS INSTRUCTIONS.
C. APPROVED MANUFACTURERS: WATTSTOPPER, CRESTRON, ACUITY BRANDS.
D. SEE SPECICICATION SECTION 262726 OR ON DRAWINGS SPECIFICATIONS FOR FACEPLATE AND DEVICE COLOR.

NOTES:

1. NUMBER REPRESENTS QUANTITY OF RELAYS PER DEVICE. SEE LIGHTING SHEETS FOR NUMBER OF RELAYS AND CONTROL ZONES. MULTI-RELAY ROOM CONTROLLERS MAY BE USED IN LIEU OF SINGLE RELAY ROOM CONTROLLERS.
2. SEE SWITCH DETAILS FOR MORE INFORMATION ON SPECIFIC TIMECLOCK SWITCHES/DIMMERS BUTTON LAYOUT AND ENGRAVING.
3. FOR USE AT BACK OF HOUSE, UNFINISHED SPACES, AND 120V 20A MOTOR DISCONNECTS SHALL BE STANDARD TOGGLE SWITCHES. SEE SPECIFICATION SECTION 262726 OR ON DRAWINGS SPECICICATION FOR ADDITIONAL INFORMATION.
4. A LINE VOLTAGE DIMMER SHALL ONLY BE USED IN RESIDENTAL INSTALLATIONS OR WHERE THE LUMINAIRE SUPPORTS ONLY LINE VOLTAGE DIMMING.
5. MANUFACTURER SHALL DETERMINE IF SENSOR SHALL COME WITH INTEGRAL PHOTOCELL IN LIEU OF STAND ALONG DEVICE AS NEEDED FOR DEVICE.

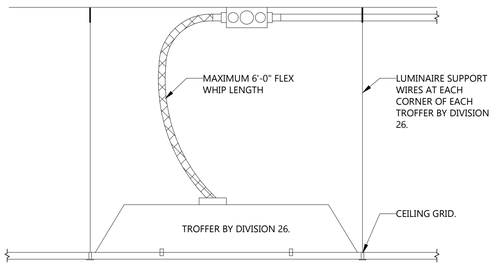
LUMINAIRE SCHEDULE

TYPE	MANUFACTURER	CATALOG NAME	MOUNTING	LOCATION	VOLTAGE	CCT	LUMENS	WATTS	NOTES	DESCRIPTION
A	METALUX	24ARS-L3C3-UNV-3500K-LOW	CEILING	ACT	UNV	3500	3400	25 W		2X4 LED TROFFER
B	METALUX	22ARS-L3C3-UNV-3500K-LOW	CEILING	ACT	UNV	3500	2700	21 W		2X2 LED TROFFER
C	LITON	CH60BUE-D10/CR6L22CW-T40	CEILING	ACT	UNV	3500	1000	11 W		6" LED CAN LIGHT
D	METALUX	SPHB-15SE-W-UNV-L840-U	SUSPENDED	CEILING	UNV	4000	12000	76 W		LED HIGH BAY LIGHT
E1	SURE LITES	LPX75D	SURFACE	WALL	UNV			1 W		WALL MOUNTED EXIT SIGN
EM	SURE LITES	SP2SQLED30	SURFACE	WALL	UNV		--	1 W		EMERGENCY BUG-EYE LIGHT
F	METALUX	4SLSTP4040DD-UNV	SUSPENDED	CEILING	UNV	4000	5200	39 W		4' LED STRIP LIGHT

NOTES:
1. NOTE
2. NOTE
3. NOTE

LUMINAIRE SCHEDULE - EXTERIOR

TYPE	MANUFACTURER	CATALOG NAME	MOUNTING	LOCATION	VOLTAGE	CCT	LUMENS	WATTS	NOTES	DESCRIPTION
AA	SLG	WFV LS70 G2 FSK-3000LM-40K MS-DCE-06-W-BT5.0	SURFACE	SITE	120V	4000	3000	18 W		EXTERIOR WEDGE LIGHT WITH INTEGRAL PHOTOCELL AND PIR SENSOR

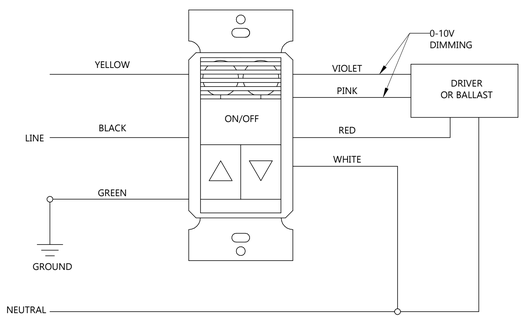


NOTE:

1. DO NOT LOOP FLEX WHIPS FIXTURE-TO- FIXTURE. PROVIDE JUNCTION BOX AS SHOWN.
2. FLEX WHIP SHALL NOT REST ON CEILING GRID. PROVIDE ADDITIONAL SUPPORTS AS NEEDED.

2 / E803 TROFFER INSTALLATION DETAIL

NOT TO SCALE



NOTE: REQUIRES CLASS 1 WIRING FOR 0-10V DIMMING

1 / E803 DUAL TECH SENSOR SWITCH OD WIRING DETAIL

NOT TO SCALE

Revit Version: 2026
Plot Date: 2/20/2026 2:58:52 PM

EAPC
Architecture | Engineering
Interior Design | Industrial
TELEPHONE 701.461.7222
112 No.Roberts Street, Suite 300, Fargo ND 58102
www.eapc.net

CLIENT
WATFORD CITY PARK DISTRICT

PROJECT DESCRIPTION
WATFORD CITY PARK SHOP

CITY WATFORD CITY
STATE ND

ISSUE DATES

MARK	DESCRIPTION	DATE
CD	RE-BID	05/20/2026

PROJECT NO: 20262250
DRAWN BY: TA
CHECKED BY: BW

STAMP

DRAWING TITLE
LIGHTING SCHEDULES & DETAILS

E803

NEW PANEL: P2

LOCATION: SHOP 100
SUPPLY FROM: P1
MOUNTING: Surface
ENCLOSURE: NEMA 1

VOLTS: 120/240 Single
PHASING: 1
WIRES: 3

A.I.C. RATING: 22kA
CALULATED A.I.C.: 19006 A
MAINS TYPE: MLO
MAINS RATING: 400 A
BUS RATING: 400 A

CKT	CIRCUIT DESCRIPTION	CODES	TRIP	POLES	A		B		POLES	TRIP	CODES	CIRCUIT DESCRIPTION	CKT
1	EXTERIOR LIGHTING		20 A	1	100 VA	648 VA			1	20 A		ERU-1 (M#5)	2
3	WELDER DISC CONNECTION		50 A	2			0 VA	1176 VA	1	20 A		EF-1 (M#6)	4
5					0 VA	696 VA			1	20 A		GUH-1 (M#7)	6
7	F-1 (M#1)		15 A	1			936 VA	696 VA	1	20 A		GUH-2 (M#8)	8
9	ACCU-1 (M#2)		20 A	2	1800 VA	600 VA			1	20 A		WH-1 (M#9)	10
11							1800 VA	180 VA	1	20 A		RECEPT ATTIC SPACE	12
13	CO/NO2 CONTROL PANEL		20 A	1	500 VA	23 VA			1	20 A		LIGHTING ATTIC SPACE	14
15	SPARE		20 A	1			0 VA	0 VA	1	20 A		SPARE	16
17	SPARE		20 A	1	0 VA	0 VA			1	20 A		SPARE	18
19	SPARE		20 A	1			0 VA	0 VA	1	20 A		SPARE	20
21	SPARE		20 A	1	0 VA	0 VA			1	20 A		SPARE	22
23	SPARE		20 A	1			0 VA	0 VA	1	20 A		SPARE	24
25	SPACE		--	1	--	--			1	--		SPACE	26
27	SPACE		--	1			--	--	1	--		SPACE	28
29	SPACE		--	1	--	--			1	--		SPACE	30
31	SPACE		--	1			--	--	1	--		SPACE	32
33	SPACE		--	1	--	--			1	--		SPACE	34
35	SPACE		--	1			--	--	1	--		SPACE	36
37	SPACE		--	1	--	--			1	--		SPACE	38
39	SPACE		--	1			--	--	1	--		SPACE	40
41	SPACE		--	1	--	--			1	--		SPACE	42

	A	B	HIGH PHASE
CONNECTED LOAD:	4367 VA	4788 VA	
EXISTING LOAD:	0 VA	0 VA	
TOTAL LOAD:	4367 VA	4788 VA	4788 VA
FEED THRU AMPS:	0 A	0 A	
TOTAL AMPS:	36 A	40 A	

CODES:

1	SEE DRAWINGS FOR CONDUIT & CONDUCTORS	6	EXISTING BREAKER ON, VERIFY SPARE	11	LSI TRIP UNIT
2	EXISTING BREAKER AND LOAD TO REMAIN	7	NEW BREAKER AND LOAD	12	PROVIDE LOCK ON DEVICE
3	EXISTING BREAKER AND NEW LOAD	8	GFCI BREAKER	13	AFCI BREAKER
4	EXISTING BREAKER TO BECOME SPARE	9	DEDICATED BREAKER		
5	EXISTING BREAKER OFF, VERIFY SPARE	10	HANDLE TIED BREAKER		

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
Lighting	23 VA	125.00%	29 VA		
Motor	8352 VA	100.00%	8352 VA	**TOTAL CONN. LOAD:**	9155 VA
Other	100 VA	100.00%	100 VA	**TOTAL EST. DEMAND:**	9161 VA
Power	500 VA	100.00%	500 VA	**TOTAL CONN.:**	38 A
Receptacle	180 VA	100.00%	180 VA	**TOTAL EST. DEMAND:**	38 A

NOTES:
1. CAN BE PROVIDED AS (1) 84-CIRCUIT PANEL.

NEW PANEL: P1

LOCATION: SHOP 100
SUPPLY FROM:
MOUNTING: Surface
ENCLOSURE: NEMA 1

VOLTS: 120/240 Single
PHASING: 1
WIRES: 3

A.I.C. RATING: 22kA
CALULATED A.I.C.: 20848 A
MAINS TYPE: MCB
MAINS RATING: 400 A
BUS RATING: 400 A

CKT	CIRCUIT DESCRIPTION	CODES	TRIP	POLES	A		B		POLES	TRIP	CODES	CIRCUIT DESCRIPTION	CKT
1	RECEPT MECH. RM 105		20 A	1	720 VA	180 VA			1	20 A		RECEPT RM 103	2
3	RECEPT RM 104		20 A	1			720 VA	720 VA	1	20 A		RECEPT RM 103	4
5	RECEPT RM 104		20 A	1	180 VA	720 VA			1	20 A		RECEPT RM 103	6
7	FREEZER RECEPT		20 A	1			1000 VA	180 VA	1	20 A		RECEPT RM 103 TV	8
9	RECEPT RM 103 FRIDGE		20 A	1	1000 VA	180 VA			1	20 A		RECEPT RM 103 MICROWAVE	10
11	RECEPT RM 102		20 A	1			360 VA	540 VA	1	20 A		RECEPT RM 102	12
13	RECEPT RM 101		20 A	1	360 VA	540 VA			1	20 A		RECEPT RM 101	14
15	RECEPT RM 100		20 A	1			180 VA	1080 VA	1	20 A		RECEPT RM 100	16
17	RECEPT RM 100		20 A	1	180 VA	180 VA			1	20 A		RECEPT RM 106	18
19	RECEPT RM 100		20 A	1			540 VA	180 VA	1	20 A		RECEPT RM 100	20
21	RECEPT RM 100		20 A	1	720 VA	360 VA			1	20 A		RECEPT RM 100	22
23	OH DOOR		20 A	2			588 VA	180 VA	1	20 A		RECEPT RM 100	24
25					588 VA	1260 VA			1	20 A		RECEPT RM 100	26
27	OH DOOR		20 A	2			588 VA	588 VA	2	20 A		OH DOOR	28
29					588 VA	588 VA							30
31	RECEPT EXTERIOR		20 A	1			1080 VA	340 VA	1	20 A		LIGHTING 101-106	32
33	RECEPT EXTERIOR		20 A	1	900 VA	687 VA			1	20 A		LIGHTING 100	34
35	CEILING FAN RM 100		20 A	1			500 VA	80 VA	1	20 A		EMERGENCY LIGHTING	36
37	CEILING FAN RM 100		20 A	1	500 VA	0 VA			1	20 A		SPARE	38
39	SPARE		20 A	1			0 VA	0 VA	1	20 A		SPARE	40
41	SPARE		20 A	1	0 VA	0 VA			1	20 A		SPARE	42

	A	B	HIGH PHASE
CONNECTED LOAD:	14798 VA	14232 VA	
EXISTING LOAD:	0 VA	0 VA	
TOTAL LOAD:	14798 VA	14232 VA	14798 VA
FEED THRU AMPS:	36 A	40 A	
TOTAL AMPS:	123 A	119 A	

CODES:

1	SEE DRAWINGS FOR CONDUIT & CONDUCTORS	6	EXISTING BREAKER ON, VERIFY SPARE	11	LSI TRIP UNIT
2	EXISTING BREAKER AND LOAD TO REMAIN	7	NEW BREAKER AND LOAD	12	PROVIDE LOCK ON DEVICE
3	EXISTING BREAKER AND NEW LOAD	8	GFCI BREAKER	13	AFCI BREAKER
4	EXISTING BREAKER TO BECOME SPARE	9	DEDICATED BREAKER		
5	EXISTING BREAKER OFF, VERIFY SPARE	10	HANDLE TIED BREAKER		

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
Lighting	1130 VA	125.00%	1412 VA		
Motor	11880 VA	100.00%	11880 VA	**TOTAL CONN. LOAD:**	29030 VA
Other	100 VA	100.00%	100 VA	**TOTAL EST. DEMAND:**	27102 VA
Power	1500 VA	100.00%	1500 VA	**TOTAL CONN.:**	121 A
Receptacle	14420 VA	84.67%	12210 VA	**TOTAL EST. DEMAND:**	113 A

NOTES:
1. PROVIDE WITH SUBFEED LUGS.
2. CAN BE PROVIDED AS (1) 84-CIRCUIT PANEL.

PANEL INDEX E901

P2	P1

EAPC
Architecture | Engineering
Interior Design | Industrial
TELEPHONE 701.461.7222
112 No.Roberts Street, Suite 300, Fargo ND 58102
www.eapc.net

CLIENT
WATFORD CITY PARK DISTRICT

PROJECT DESCRIPTION
WATFORD CITY PARK SHOP

CITY WATFORD CITY
STATE ND

ISSUE DATES

MARK	DESCRIPTION	DATE
CD	RE-BID	05/20/2026

PROJECT NO: 20262250
DRAWN BY: TA
CHECKED BY: BW

STAMP

DRAWING TITLE
SCHEDULES

E901

Revit Version: 2026
Plot Date: 5/20/2026 2:58:53 PM