



**NOTICE OF HEARING
OPEN TO THE PUBLIC
DEVELOPMENT APPEALS BOARD**

April 1, 2025, 4:00 pm
Committee Room E, Ground Floor, City Hall

(Please contact the City Clerk's Office at 306.975.3240 for further information).

1. **CALL TO ORDER**
2. **APPEAL HEARINGS**
 - 2.1 **Appeal 9-2025 - Development Permit Denial - 1202/1204 College Drive**
 - 2.2 **Appeal 10-2025 - Development Permit Denial - 633 Guelph Crescent**
3. **ADJOURNMENT**

City of Saskatoon Development Appeal Application- page 2

THIS PAGE WILL FORM PART OF THE PUBLIC RECORD FOR THE APPEAL

Applicant Name: James Zimmer

Registered Property Owner(s):
(if different from above): Parker Siemens

Location of Subject Property

Legal Description

Lot (s) 21, 22, 23, 43 Block 35 Plan No. 5527 / 101356253

Civic Address: 1204 College Drive 1202 College Drive

Present Status of Building or Structure Under Appeal:

Construction not yet begun Under Construction Completed

Type of Construction:

Residential Commercial Industrial Other Mixed use Residential and Commercial
(specify)

Description of Development Appeal: (example: side yard deficiency, parking deficiency, etc.)

1) Side Yard Deficiency 2) Waste Space Deficiency

Reason for Development Appeal: (as per *The Planning and Development Act, 2007*, applicants have 5 days prior to the appeal hearing date to submit drawings and written materials)

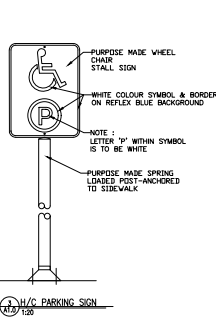
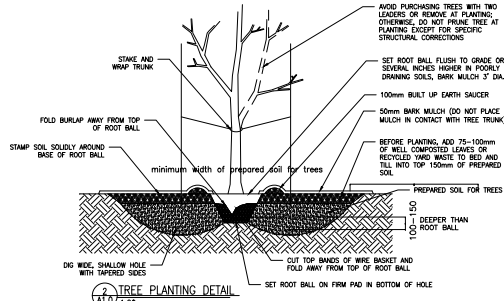
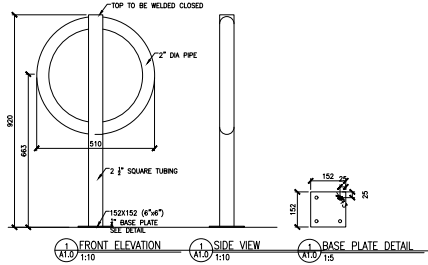
1) We are appealing the Side Yard requirement 1.5 metres, up to a height 12 metres and 3 metres or that portion of the building in excess of 12 metres in height, if any window, door or other opening is provided in the wall facing the adjacent property. A 0 metre Side Yard facing the adjacent property is permitted which we have, but we also have an inset of 3 metres at this Side Yard in our building configuration, which in turn has windows and door openings. So strictly speaking, a 3 metre Side Yard with doors, windows or other opening is permitted in the wall facing the other property, yet with our 3 metre yard above and / or beside a 0 metre yard windows and doors not permitted at 3 metres from adjacent property. With these units facing the east property quality of living will be much better with windows. 2) A waste space deficiency of 1.5 metres in length has also been included in our Appeal, however I regret that this was a misinterpretation of the Bylaw requirements with our site design. We will not be asking for relaxation of the waste space size requirement at this time, our intention is to adjust our design to accommodate a 3.0m x 7.5m waste space, possibly internally, if we are unable achieve this any other way. **BOTH SIDES OF THIS FORM MUST BE COMPLETED**





SITE DATA

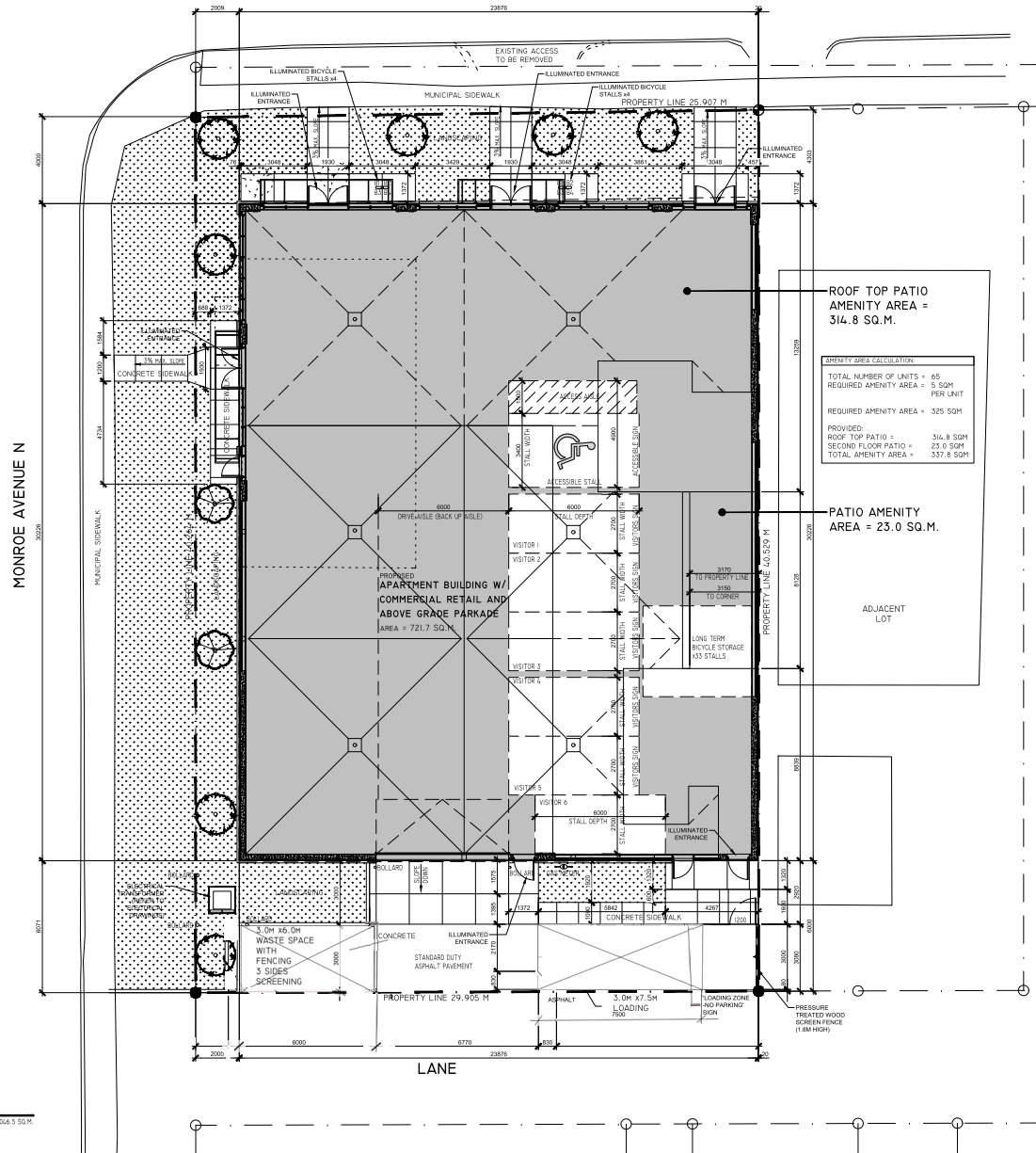
- ZONING: CSI - CORRIDOR STATION MIXED - USE I DISTRICT
- ADDRESS: 1202 AND 1204 COLLEGE DRIVE
- BUILDING FOOTPRINT: 722± M²
- PERMITTED USES: (ASSEMBLY / RETAIL / PERSONAL SERVICE / SHOPPING CENTRE) DWELLING UNITS NOT MAIN FLOOR
- ACTIVE FRONTAGE - MINIMUM 30% OF SURFACE AREA OF GROUND FLOOR OF ALL STREET FACING FACADES TO CONTAIN TRANSPARENT OPENINGS (COLLEGE DRIVE, MONROE AVENUE)
- SIDE WIDTH ISM: 25.9± M
- SITE AREA (DINA 450 HR: 1074± M²)
- FRONT YARD SETBACK: 4.0M
- SIDE YARD SETBACK: 2.0M AT FLANKING STREET / 0.0 M
- REAR YARD SETBACK: 6.0M
- BUILDING HEIGHT: MAX 27M (19.3± M BUILDING & 24.9± M ELEVATOR HEAD / STAIRWELLS / MECH MEZZ)
- ARENITY SPACE PER UNIT: 5M²
- ASSIGNED VISITOR PARKING STALLS: 6
- BARRIER FREE PARKING STALL: 1
- BIKE PARKING: 3 SHORT TERM BIKE STALLS MULTIPLE DWELLING; 2 SHORT TERM BIKE STALLS FOR MAIN FLOOR COMMERCIAL
- LOADING SPACE = 1 (7.5M X 3.0M)
- GARBAGE / RECYCLE STORAGE AND PICK UP SPACE = (7.5M X 3.0M)



ADDRESS:
LEGAL: 1-LOTS 1202 AND 1204,
BLOCK PLAN
CIVIC ADDRESS: 1202 COLLEGE DRIVE,
MUNICIPALITY: CITY OF SASKATOON,
PROVINCE: SASKATCHEWAN



COLLEGE DRIVE



ROOF TOP PATIO AMENITY AREA = 314.8 SQ.M.

| AMENITY AREA CALCULATION | |
|--------------------------|----------------|
| TOTAL NUMBER OF UNITS = | 65 |
| REQUIRED AMENITY AREA = | 5 SQM PER UNIT |
| REQUIRED AMENITY AREA = | 325 SQM |
| PROVIDED: | |
| ROOF TOP PATIO = | 314.8 SQM |
| SECOND FLOOR PATIO = | 23.0 SQM |
| TOTAL AMENITY AREA = | 337.8 SQM |

PATIO AMENITY AREA = 23.0 SQ.M.

GENERAL NOTES

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| NO. | REVISION | DATE |
|-----|------------------|------------|
| 1 | ISSUE FOR PERMIT | 18/07/2024 |
| 2 | ISSUE FOR PERMIT | 18/07/2024 |
| 3 | ISSUE FOR PERMIT | 18/07/2024 |
| 4 | ISSUE FOR PERMIT | 18/07/2024 |
| 5 | ISSUE FOR PERMIT | 18/07/2024 |

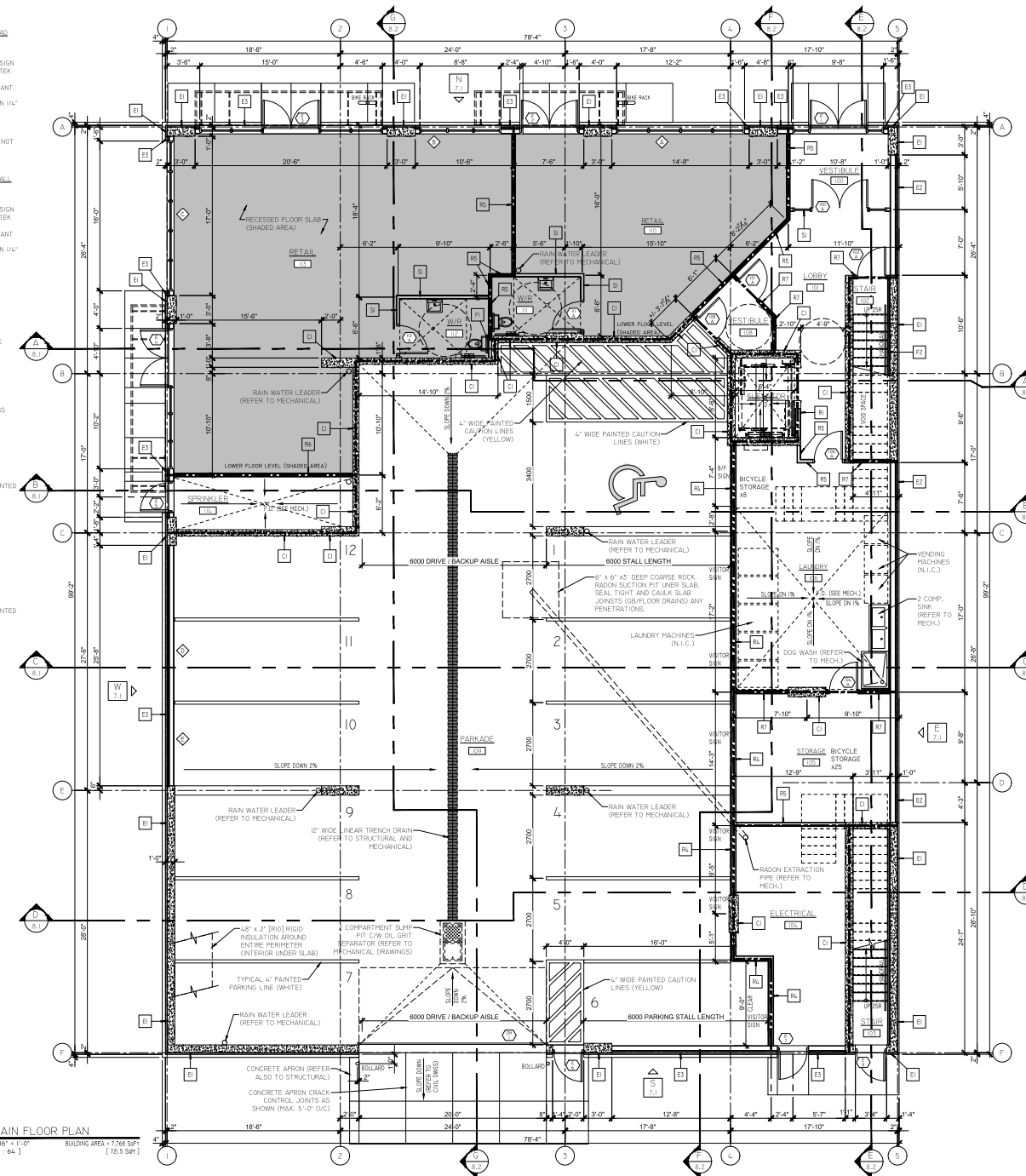
JAMES ZIMMER
ARCHITECT
410-2102 3888E AVE.
SASKATOON, SASKATCHEWAN
S4N 0K5 X3-6822

NOT FOR CONSTRUCTION

PROPOSED:
COLLEGE DRIVE APARTMENTS
1202 COLLEGE DRIVE
SASKATCHEWAN, SK
SITE PLAN

SCALE: AS NOTED
DRAWN: CCH SHEET:
CHECKED: -
DATE: AUG. 25, 2024 A 2.1
JOB NO.: 2024-17 2 of 14(15)

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- E1** E1- TYPICAL 1.0 HR. FRR. LOAD BEARING EXTERIOR NONCOMBUSTIBLE CLAD CONCRETE SHEAR WALL CONSTRUCTION
(N.B.C. 2000 TABLE 9.10.3.1 & NO. W01.1.5 HR STC 5.0) (SM TO)
- ACRYLIC STUCCO EXTERIOR EIFS SYSTEMS TO ADEX SYSTEM INC. DESIGN NO. ASHWEIFS 25-01(EFS) ADEX-RS SYSTEMS CANULC 314 (INTERTEK APPROVAL, OCTOBER 9, 2018) (DEEPEX NONCOMBUSTIBLE)
- 2" EIFS EXTERIOR NONCOMBUSTIBLE CLADDING, WOODPECKER RESISTANT ACRYLIC ADEX STUCCO FINISH AND PRIME COAT ON ADEX MESH 3" ADEX-GO OR ADEX FLAT INSULATION BOARD, INCLUDE NOT LESS THAN 1/4" DEEP DRAINAGE PATH FOR WATER THAT PENETRATES PAST THE EXTERIOR CLADDING.
- ADEX SYSTEMS WATER RESISTIVE BARRIER
- 10" CONCRETE SHEAR WALL.
- NOTE: REFER TO PLAN FOR LOCATIONS WHERE EIFS CLADDING NEED NOT BE NONCOMBUSTIBLE.
- E2** E2- TYPICAL NONCOMBUSTIBLE / NONCOMBUSTIBLE CLAD 1.0 HR FRR WALL WITH 1.0 HR LOAD BEARING EXTERIOR WALL CONSTRUCTION
(N.B.C. 2000 TABLE 9.10.3.1 & NO. W01.1.5 HR STC 5.0) (SM TO)
- ACRYLIC STUCCO EXTERIOR EIFS SYSTEMS TO ADEX SYSTEM INC. DESIGN NO. ASHWEIFS 25-01(EFS) ADEX-RS SYSTEMS CANULC 314 (INTERTEK APPROVAL, OCTOBER 9, 2018) (DEEPEX NONCOMBUSTIBLE)
- 2" EIFS EXTERIOR NONCOMBUSTIBLE CLADDING, WOODPECKER RESISTANT ACRYLIC ADEX STUCCO FINISH AND PRIME COAT ON ADEX MESH 3" ADEX-GO OR ADEX FLAT INSULATION BOARD, INCLUDE NOT LESS THAN 1/4" DEEP DRAINAGE PATH FOR WATER THAT PENETRATES PAST THE EXTERIOR CLADDING.
- ADEX SYSTEMS WATER RESISTIVE BARRIER
- 5/8" 1" TYPE X GLASS / FIBERGLASS SHEATHING, FIRE TAPED
- 2 1/2" STEEL STUDS AT 16" O.C.
- 2 1/2" ROCKWOOL
- 5/8" TYPE X GYPSUM BOARD, FIRE TAPED
- 1/2" PLYWOOD SHEATHING
- 2" X 4" WOOD STUDS, STUD SPACING REFER TO STRUCTURAL
- 5 1/2" FIBERGLASS INSULATION
- 5/8" TYPE X GYPSUM BOARD, TAPED, SANDED AND PAINTED
- FRR (MAX FLAME SPREAD RATING 150) LINER TO 4" HIGH ON PARKADE SIDE
- C1** C1- PARKADE CONCRETE DEMISING WALL CONSTRUCTION
(N.B.C. 2000 TABLE 9.10.3.1 & NO. W01.1.5 HR STC 5.0) (SM TO)
- EXPOSED CONCRETE FINISH
- CONCRETE WALL OR COLUMN (REFER TO STRUCTURAL) C/W NOT LESS THAN 1" CONCRETE COVER OVER REINFORCED STEEL
- EXPOSED CONCRETE FINISH
- R1** R1- ELEVATOR FRAMING (LOBBY / CORRIDOR)
(N.B.C. 2000 TABLE 9.10.3.1 & NO. W01.1.5 HR STC 5.0) (SM TO)
ELEVATOR SIDE
- DOUBLE LAYER 5/8" TYPE X GYPSUM BOARD, TAPED, SANDED AND PAINTED EXPOSED (SISO)
- 3/4" PLYWOOD SHEATHING 5/8" LINER (REFER TO STRUCTURAL)
- LOAD BEARING WALL 2" X 4" WOOD STUDS, STUD SPACING REFER TO STRUCTURAL (WOOD BLOCKING FIRE STOPPING MAX 10 FT D.C. HORIZONTAL)
- 5/8" TYPE X GYPSUM BOARD, TAPED, SANDED AND PAINTED EXPOSED SIDES
- R4** R4- PARKADE FRAMING
(N.B.C. 2000 TABLE 9.10.3.1 & NO. W01.1.5 HR STC 5.0) (SM TO)
PARKADE SIDE
- FRR LINER (MAX FLAME SPREAD RATING 150) TO 48" HIGH
- DOUBLE LAYER 5/8" TYPE X GYPSUM BOARD, TAPED, SANDED AND PAINTED EXPOSED (SISO)
- LOAD BEARING WALL 2" X 4" WOOD STUDS, STUD SPACING REFER TO STRUCTURAL (WOOD BLOCKING FIRE STOPPING MAX 10 FT D.C. HORIZONTAL)
- 5/8" TYPE X GYPSUM BOARD, TAPED, SANDED AND PAINTED EXPOSED SIDES
- R5** R5- TENANT / LAUNDRY FIRE SEPARATION
(N.B.C. 2000 TABLE 9.10.3.1 & NO. S10.1.0 HR STC 1.0) (SM TO)
- 5/8" TYPE X GYPSUM BOARD, TAPED, SANDED AND PAINTED EXPOSED SIDES
- 3 5/8" STEEL STUDS AT 16" O.C. C/W REQ'D BRIDGING AND BRACING
- 3 1/2" MINERAL WOOL INSULATION
- 5/8" TYPE X GYPSUM BOARD, TAPED, SANDED AND PAINTED EXPOSED SIDES
- R6** R6- SPRINKLER / RETAIL FIRE SEPARATION
(N.B.C. 2000 TABLE 9.10.3.1 & NO. S10.1.0 HR STC 1.0) (SM TO)
SPRINKLER ROOM SIDE
- 1/2" FINISH AND PAINTED PLYWOOD SHEATHING
- 5/8" TYPE X GYPSUM BOARD, TAPED, SANDED AND PAINTED EXPOSED SIDES
- 3 5/8" STEEL STUDS AT 16" O.C. C/W REQ'D BRIDGING AND BRACING
- 3 1/2" MINERAL WOOL INSULATION
- 5/8" TYPE X GYPSUM BOARD, TAPED, SANDED AND PAINTED EXPOSED SIDES
- R7** R7- STEEL STUD FRAMED FIRE SEPARATION
(GIPSUM ASSOCIATION, NO. SWP 1072-1.0 HR STC 4.5)
- 5/8" TYPE X GYPSUM BOARD, TAPED, SANDED AND PAINTED EXPOSED SIDES
- 3 5/8" STEEL STUDS AT 16" O.C. C/W REQ'D BRIDGING AND BRACING
- 5/8" TYPE X GYPSUM BOARD, TAPED, SANDED AND PAINTED EXPOSED SIDES
- F1** F1- STEEL STUD CURING WALL CONSTRUCTION
- 1/2" GYPSUM BOARD, TAPED, SANDED AND PAINTED EACH SIDE (WATER RESISTANT GYPSUM BOARD IN WASH-ROOMS)
- 3 5/8" STEEL STUDS 16" O.C.
- F2** F2- STAIR FINISH WALL CONSTRUCTION
- 5/8" GYPSUM BOARD, TAPED, SANDED AND PAINTED
- 2" STEEL STUDS 16" O.C. (ANCHOR BACK TO CONCRETE WALL AS REQ'D)
- S1** S1- INTERIOR STEEL STUD INSULATED WALL CONSTRUCTION
- 1/2" GYPSUM BOARD, TAPED, SANDED AND PAINTED EACH SIDE
- 3 5/8" STEEL STUDS 16" O.C.
- 3 1/2" ACOUSTIC INSULATION
- 1/2" GYPSUM BOARD, TAPED, SANDED AND PAINTED EACH SIDE (WATER RESISTANT GYPSUM BOARD IN WASH-ROOMS)
- S2** S2- INTERIOR STEEL STUD WALL CONSTRUCTION
- 1/2" GYPSUM BOARD, TAPED, SANDED AND PAINTED EACH SIDE
- 3 5/8" STEEL STUDS 16" O.C.
- 1/2" GYPSUM BOARD, TAPED, SANDED AND PAINTED EACH SIDE

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JAMES ZIMMER ARCHITECT
#10-202 QUEBEC AVE.
SASQUATCHAWAN, SASKATCHEWAN
S4N 3G5-562-5627 (PH) EXT 200

PROPOSED
COLLEGE DRIVE APARTMENTS
1202 COLLEGE DRIVE
SASQUATCHAWAN, SK
MAIN FLOOR PLAN

SCALE: AS NOTED
DRAWN: ECH SHEET:
CHECKED: - DATE: AUG. 23, 2024
JOB NO.: 2024-1 4 of 11 - 10/25/24

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MAIN FLOOR PLAN
210' x 1-0"
[1: 64]
BUILDING AREA = 7768 SQFT
[783 SQM]

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- E2: TYPICAL NONCOMBUSTIBLE / NONCOMBUSTIBLE CLAD 1.0 HR FR WALL WITH 1.0 HR LOAD BEARING EXTERIOR WALL CONSTRUCTION**
(REF: 2020 TABLE 9.10.5.1-A-10, WB-ND, RW-2 LO HR)

 - ACRYLIC STUCCO EXTERIOR EIFS SYSTEMS TO ADEX SYSTEM INC. DESIGN NO. ASW05EFS-20-01EFS) (ACRILIC SYSTEMS ZANULIS S&A (INTEREX APPROVAL, OCTOBER 9, 2018) (DEEMED NONCOMBUSTIBLE)
 - 2" EIFS EXTERIOR NONCOMBUSTIBLE CLADDING, WOODPECKER RESISTANT ACRYLIC ADEX STUCCO FINISH AND PRIME COAT ON ADEX MESH 3" ACRIL-CD ON ADEX FLAT INSULATION BOARD, INCLUDE NOT LESS THAN 1/4" DEEP DRAINAGE PATH FOR WATER THAT PENETRATES PAST THE EXTERIOR CLADDING.
 - ADEX SYSTEMS WATER RESISTIVE BARRIER
 - 5/8" TYPE X GLASROC / DENGLOS SHEATHING, FIRE TAPED
 - 2 1/2" STEEL STUDS AT 16" O.C.
 - 2 1/2" ROCKWOOL
 - 5/8" TYPE X GYPSUM BOARD, FIRE TAPED
 - 1/2" PLYWOOD SHEATHING
 - 2" X 6" WOOD STUDS, STUD SPACING REFER TO STRUCTURAL
 - 5 1/2" FIBROGLASS INSULATION
 - 5/8" TYPE X GYPSUM BOARD, TAPED, SANDED AND PAINTED
 - FRP (MAX FLAME SPREAD RATING 100) LINER TO G- HIGH ON PARKADE SIDE

- E3: TYPICAL 1.0 HR FR LOAD BEARING EXTERIOR WALL CONSTRUCTION**
(REF: 2020 TABLE 9.10.5.1-A-10, WB-ND, RW-2 LO HR)

 - ACRYLIC STUCCO EXTERIOR EIFS SYSTEM
 - 2" EIFS EXTERIOR NONCOMBUSTIBLE CLADDING, WOODPECKER RESISTANT ACRYLIC STUCCO FINISH AND PRIME COAT ON MESH 3" INSULATION BOARD, INCLUDE NOT LESS THAN 1/4" DEEP DRAINAGE PATH FOR WATER THAT PENETRATES PAST THE EXTERIOR CLADDING.
 - WATER RESISTIVE BARRIER
 - 1/2" PLYWOOD SHEATHING
 - 2" X 6" WOOD STUDS, STUD SPACING REFER TO STRUCTURAL
 - 5 1/2" FIBROGLASS INSULATION
 - 5/8" TYPE X GYPSUM BOARD, TAPED, SANDED AND PAINTED

- E4: TYPICAL 1.0 HR FR LOAD BEARING EXTERIOR WALL CONSTRUCTION**
(REF: 2020 TABLE 9.10.5.1-A-10, WB-ND, RW-2 LO HR)

 - ACRYLIC STUCCO EXTERIOR EIFS SYSTEM
 - 2" EIFS EXTERIOR NONCOMBUSTIBLE CLADDING, WOODPECKER RESISTANT ACRYLIC STUCCO FINISH AND PRIME COAT ON MESH 3" INSULATION BOARD, INCLUDE NOT LESS THAN 1/4" DEEP DRAINAGE PATH FOR WATER THAT PENETRATES PAST THE EXTERIOR CLADDING.
 - WATER RESISTIVE BARRIER
 - 1/2" PLYWOOD SHEATHING
 - 2" X 6" WOOD STUDS, STUD SPACING REFER TO STRUCTURAL
 - 5 1/2" FIBROGLASS INSULATION
 - 3/4" PLYWOOD SHEATHING
 - DOUBLE LAYER OF 5/8" TYPE X GYPSUM BOARD, TAPED, SANDED AND PAINTED

- R1: ELEVATOR FRAMING (LOBBY / CORRIDOR)**
(REF: C. 2020 TABLE 9.10.3.1-G-10, WB-LO HR STC 3/2 (RM TO))

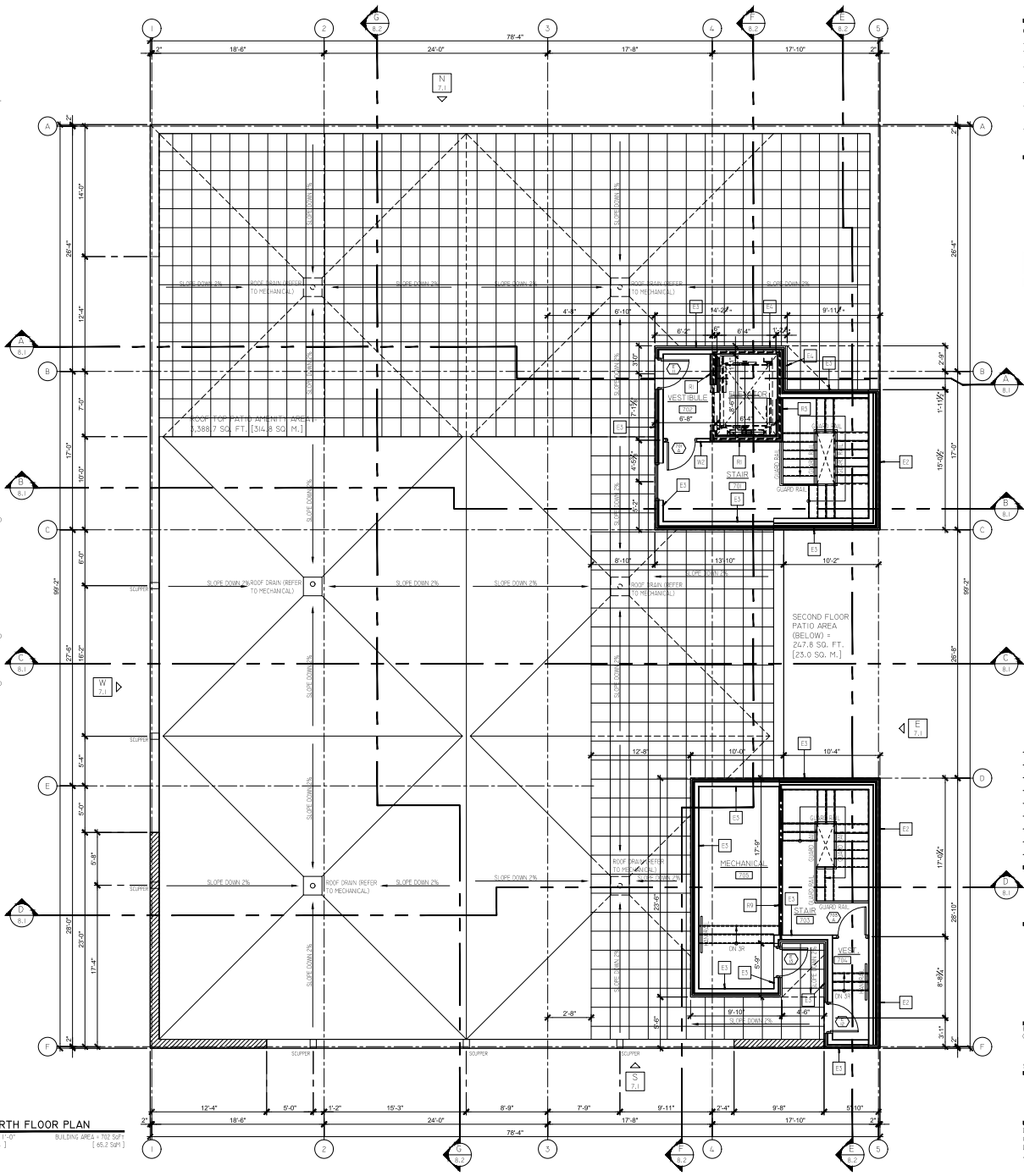
 - ELEVATOR SIDE
 - DOUBLE LAYER 5/8" TYPE X GYPSUM BOARD, TAPED, SANDED AND PAINTED EXPOSED SIDES (ELEVATOR SIDE)
 - 3/4" PLYWOOD SHEATHING SHAFT LINER (REFER TO STRUCTURAL)
 - LOAD BEARING WALL, 2" X 6" WOOD STUDS, STUD SPACING REFER TO STRUCTURAL (WOOD BLOCKING FIRE STOPPING MAX 10 FT O.C. HORIZONTAL)
 - 5/8" TYPE X GYPSUM BOARD, TAPED, SANDED AND PAINTED EXPOSED SIDES

- R2: ELEVATOR FRAMING (STAIR)**
(REF: C. 2020 TABLE 9.10.3.1-G-10, WB-LO HR STC 3/4 (SM TO))

 - ELEVATOR SIDE
 - DOUBLE LAYER 5/8" TYPE X GYPSUM BOARD, TAPED, SANDED AND PAINTED EXPOSED SIDES
 - 3/4" PLYWOOD SHEATHING SHAFT LINER (REFER TO STRUCTURAL)
 - LOAD BEARING WALL, 2" X 6" WOOD STUDS, STUD SPACING REFER TO STRUCTURAL (WOOD BLOCKING FIRE STOPPING MAX 10 FT O.C. HORIZONTAL)
 - DOUBLE LAYER 5/8" TYPE X GYPSUM BOARD, TAPED, SANDED AND PAINTED EXPOSED SIDES

- R3: SHAFT WALL CONSTRUCTION**
(REF: 2020 TABLE 9.10.3.1-A-10, WB-LO HR STC 3/2)

 - 5/8" TYPE X GYPSUM BOARD, TAPED, SANDED AND PAINTED
 - 2" X 6" WOOD STUDS, STUD SPACING REFER TO STRUCTURAL
 - DOUBLE BOTTOM PLATE AND DOUBLE TOP PLATE
 - 5/8" TYPE X GYPSUM BOARD, TAPED, SANDED AND PAINTED



| NO. | REVISION | DATE |
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| | | |

JAMES ZIMMER ARCHITECT
110-200 QUEBEC AVE.
SASKATCHEWAN, SASKATCHEWAN
S4S 0A7

PROPOSED
COLLEGE DRIVE APARTMENTS
1202 COLLEGE DRIVE
SASKATCHEWAN, SK
ROOF PLAN

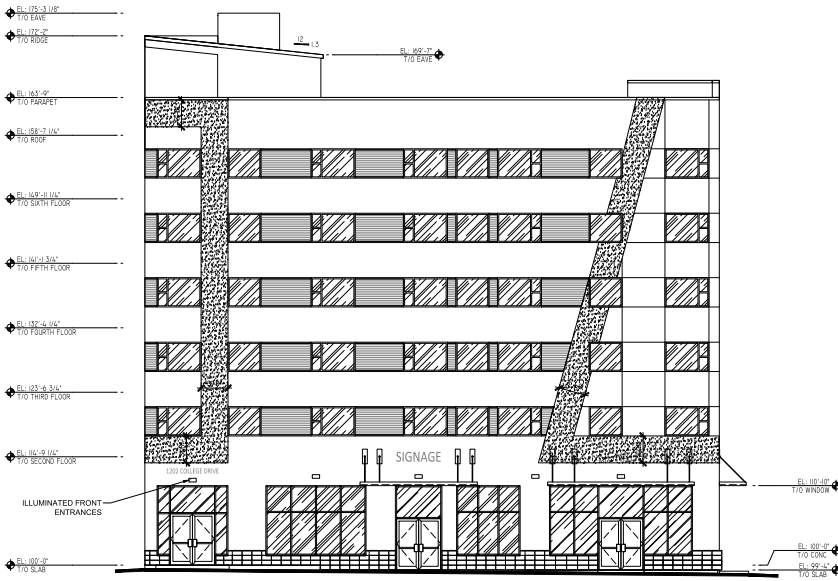
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DRAWN: ECH SHEET:
CHECKED: -
DATE: AUG. 23, 2024
JOB NO.: 2024-17 15 OF 16 PAGES

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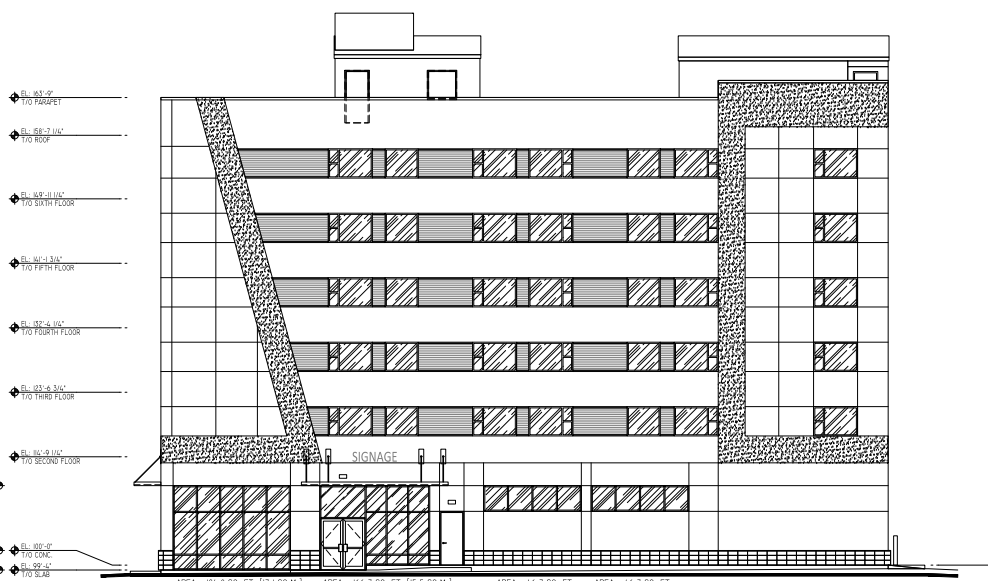
FOURTH FLOOR PLAN
3/10" = 1'-0"
[1:164] BUILDING AREA = 103 SQFT
[65.2 SQM]

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NORTH ELEVATION (COLLEGE DRIVE)

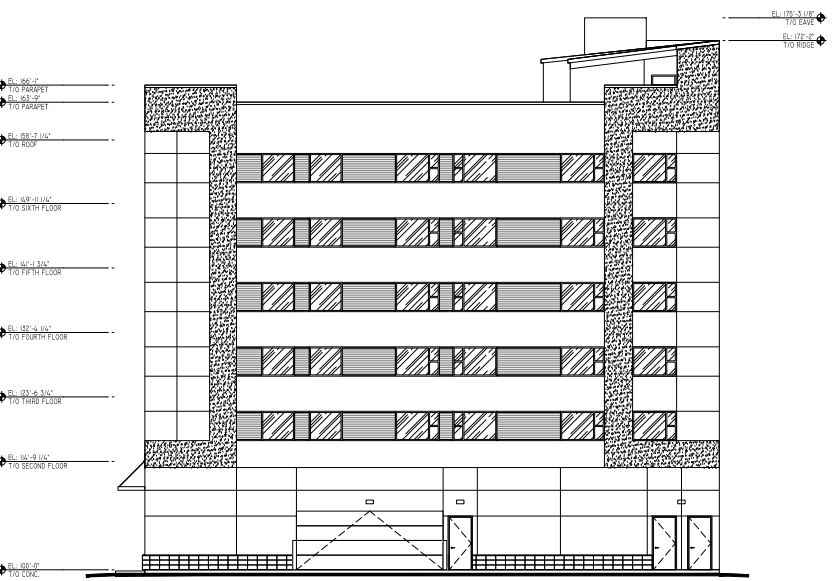
1/8" = 1'-0"
[1 : 96]



WEST ELEVATION (MUNROE AVE. N.)

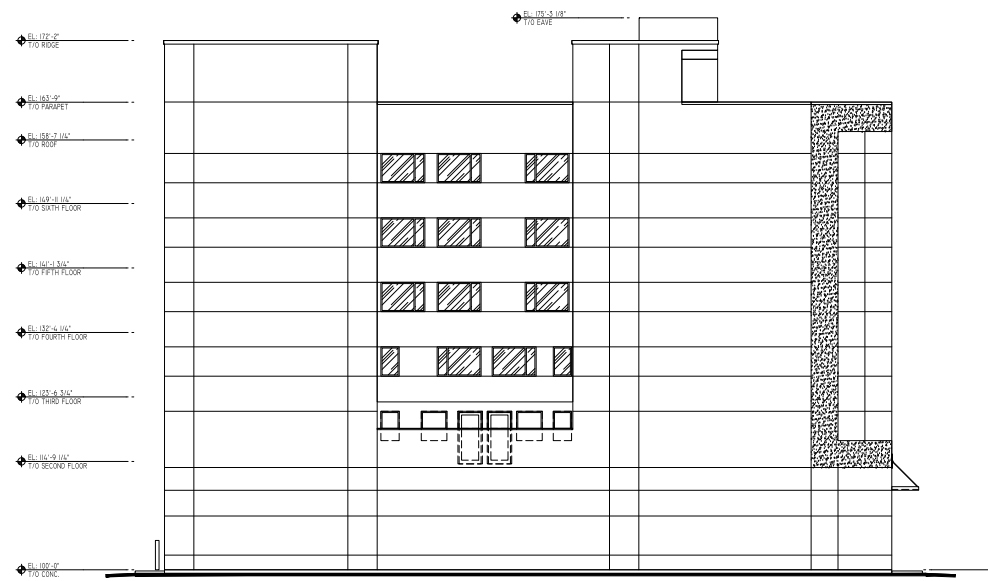
1/8" = 1'-0"
[1 : 96]

WALL AREA = 1464.9 SQ. FT. [136.1 SQ.M.]
 REQ'D TRANSPARENT AREA (30%) = 439.5 FT. [40.8 SQ.M.]
 PROPOSED GLAZING AREA = 444.1 FT. [41.2 SQ.M.]



SOUTH ELEVATION (LANE)

1/8" = 1'-0"
[1 : 96]



EAST ELEVATION

1/8" = 1'-0"
[1 : 96]

| No. | REVISION | DATE |
|-----|----------|------|
| | | |
| | | |
| | | |
| | | |

JAMES ZIMMER
 ARCHITECT
 #10-202 QUEBEC AVE.
 SASKATCHEWAN, SASKATCHEWAN
 S4S 0A6

NOT FOR
 CONSTRUCTION

PROPOSED
 COLLEGE DRIVE APARTMENTS
 1022 COLLEGE DRIVE
 SASKATCHEWAN, SK
 BUILDING ELEVATIONS

SCALE: AS NOTED
 DRAWN: ECH SHEET:
 CHECKED: - A 7.1
 DATE: AUG. 23, 2024
 JOB NO.: 2024-17

From: [Jim Zimmer](#)
To: [Web E-mail - Development Appeals Board](#)
Cc: michael.r@14northconstruction.ca; maggie@schwabplanning.ca
Subject: Appeal No. 9-2025 1202/1204 College Drive
Date: Wednesday, March 26, 2025 1:31:00 AM
Attachments: [Closed Courtyard Detail.png](#)
[Closed courtyard Detail 2.png](#)
[Open Courtyard Plan.png](#)
[Enclosed Courtyard Plan.png](#)

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Dear Development Appeals Board: kindly accept the following as part of your review:

Please find a brief explanation for our for Appeal No, 9-2025 1202/1204 College Drive: the proposed new six storey mixed use building - apartment and with ground level commercial - at College Drive and Munroe Avenue.

The project is an exciting one in that it fits well with the new Corridor Station Zoning CS1 that has been adopted. The design intention is to try to achieve the intent of the bylaw, such as increased density, street level retail, pedestrian, bicycle and commuter oriented, and limited and screened parking. This new zoning has been a significant change from previous zoning.

A review of a preliminary design of the project revealed some shortfalls, for instance insufficient ground level transparent glazing on Munroe Avenue for "retail" presentation, incorrect grade slope up to accessible "retail" entrances on College Drive, a required accessible parking stall too far from building entry location, and loading zone and waste stall size. The design is being adjusted to fully conform to all of these requirements. Please withdraw our Appeal item regarding the Loading Stall encroaching the sideyard flanking landscaping, we will comply with the Bylaw.

The zoning permits zero sideyard to adjacent property at ground level and above, however zero sideyard to adjacent property at ground level but 1.5 metres sideyard if openings are facing the adjacent property and 3.0 metres sideyard above the 12.0 metre building height level if openings are facing the adjacent property. This is what we are Appealing. Regardless, there is no requirement for sideyard at adjacent property at the ground level floor.

We are proposing both zero sideyard to adjacent property at ground level and above, and zero sideyard to adjacent property at ground level and 3.0 metres sideyard with openings (doors and windows) facing the adjacent property.

In general the building is a basic box main floor retail / visitor parking / services and has five U-shaped floors above with residential apartments - there is no sideyard requirement for main floor abutting the adjacent property. The U-shaped floors above have stairs at the side, which frees up main floor space for parking maneuverability / circulation and possible future retail expansion. Two residential units per floor are planned on the interior of the U, they face the adjacent property, three metres away. There is not enough site depth to fit these interior units facing each other.

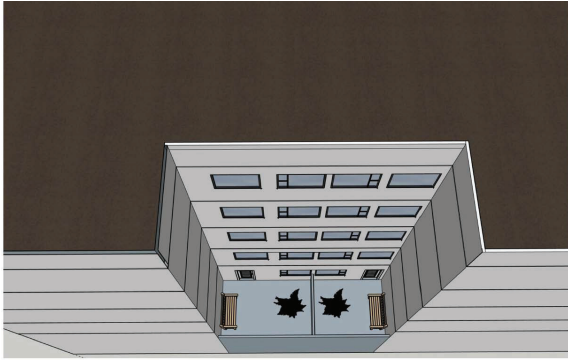
Window options for these particular interior residential units are: 1) no windows and doors, 2) windows and doors into an interior courtyard, ending with a slab wall at property line three metres away (forming a shear massive block of building at east sideyard), or by way of Appeal 3) windows and doors into a courtyard, but without a wall at property line (forming an inset stepped to break the shear massive slab of building at east sideyard)..

Option 1) is a non-starter regardless that it can still meet building code; Option 2) gives the neighbour a massive wall slab facing them; Option 3) makes the most sense - aside from the more amenable courtyard with fresh air and likely more daylight, the neighbour has a relief inset on the massive slab of building wall.

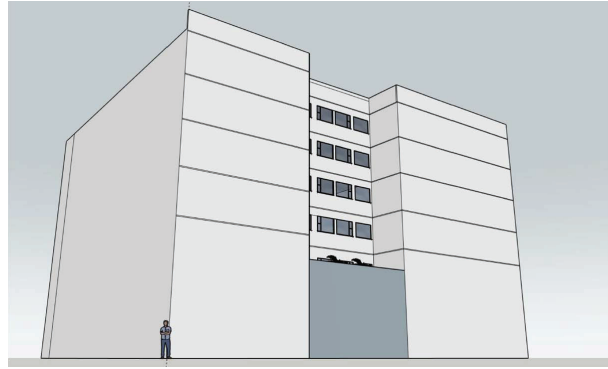
See schematic illustrations for reference:

James D. Zimmer Architect
109 - 2002 Quebec Avenue
Saskatoon SK S7K 1W4
306 - 931 - 6622

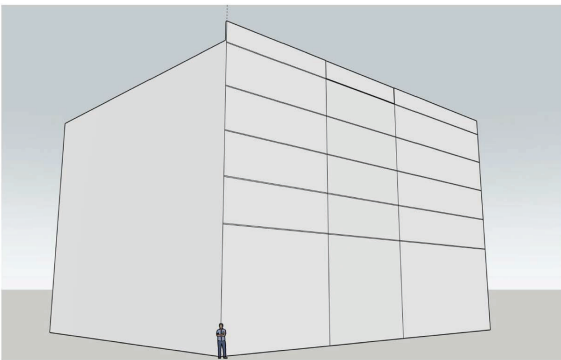
1202 College Open Courtyard



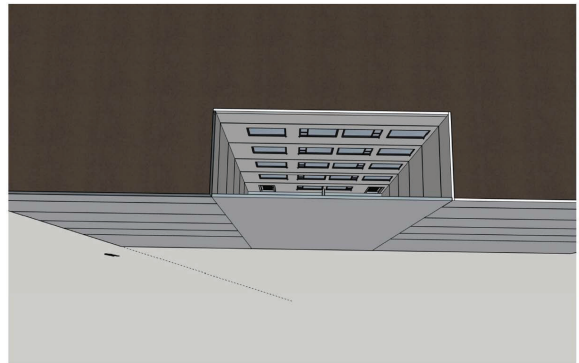
1202 open courtyard



1202 closed courtyard



1202 closed courtyard



closed courtyard details



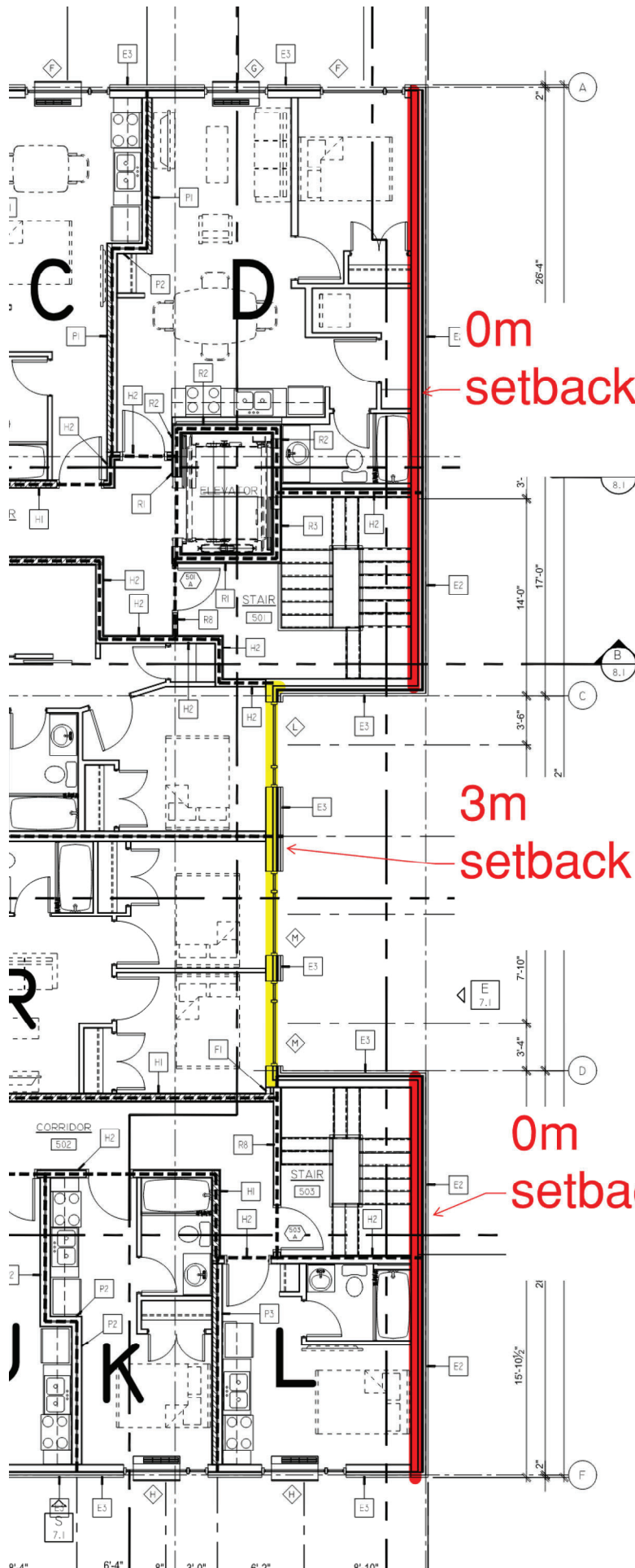
closed courtyard details



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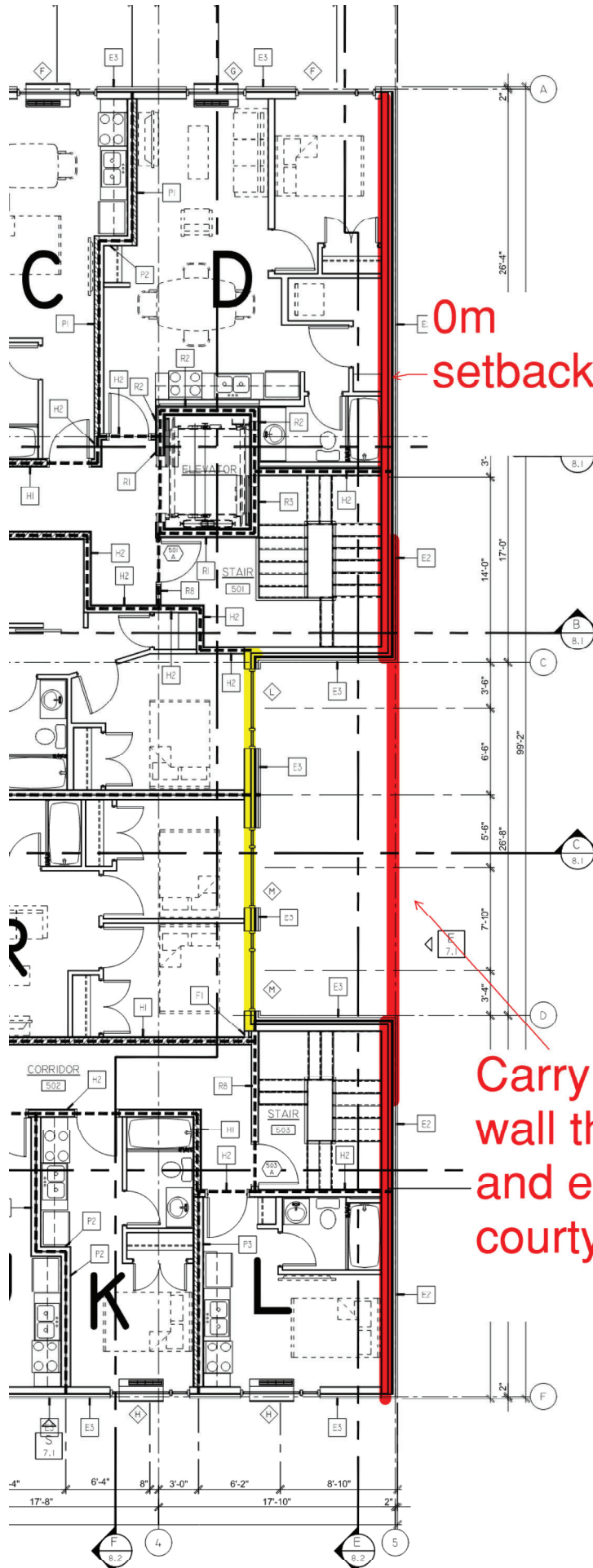
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PROPOSED
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FIFTH FLOOR I

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 CONSTRUCTION



Carry this wall through and enclose courtyard

PROPOSED
 COLLEGE DRIVE APARTMENTS
 1202 COLLEGE DRIVE
 SASKATCHEWAN, SK
 FIFTH FLOOR PLAN

SCALE: AS NOTED
 DRAWN: CDH SHEET: A
 CHECKED: -
 DATE: AUG. 23, 2024
 JOB NO.: 2024-17 8 OF 8
ARCHITECTURE & DESIGN INC.

Received
City Clerk's Office
March 26, 2025

A.3

Appeal 9-2025
Page 1

From: [Jim Zimmer](#)
To: [Web E-mail - Development Appeals Board; michael.r@14northconstruction.ca](#)
Cc: [michael.r@14northconstruction.ca; maggie@schwabplanning.ca](#)
Subject: Appeal No. 9-2025 1202 / 1204 COLLEGE DRIVE
Date: Wednesday, March 26, 2025 4:12:13 PM
Attachments: [V1.pdf](#)
[2025-03-26 College Drive A2.1 SITE EDIT.pdf](#)

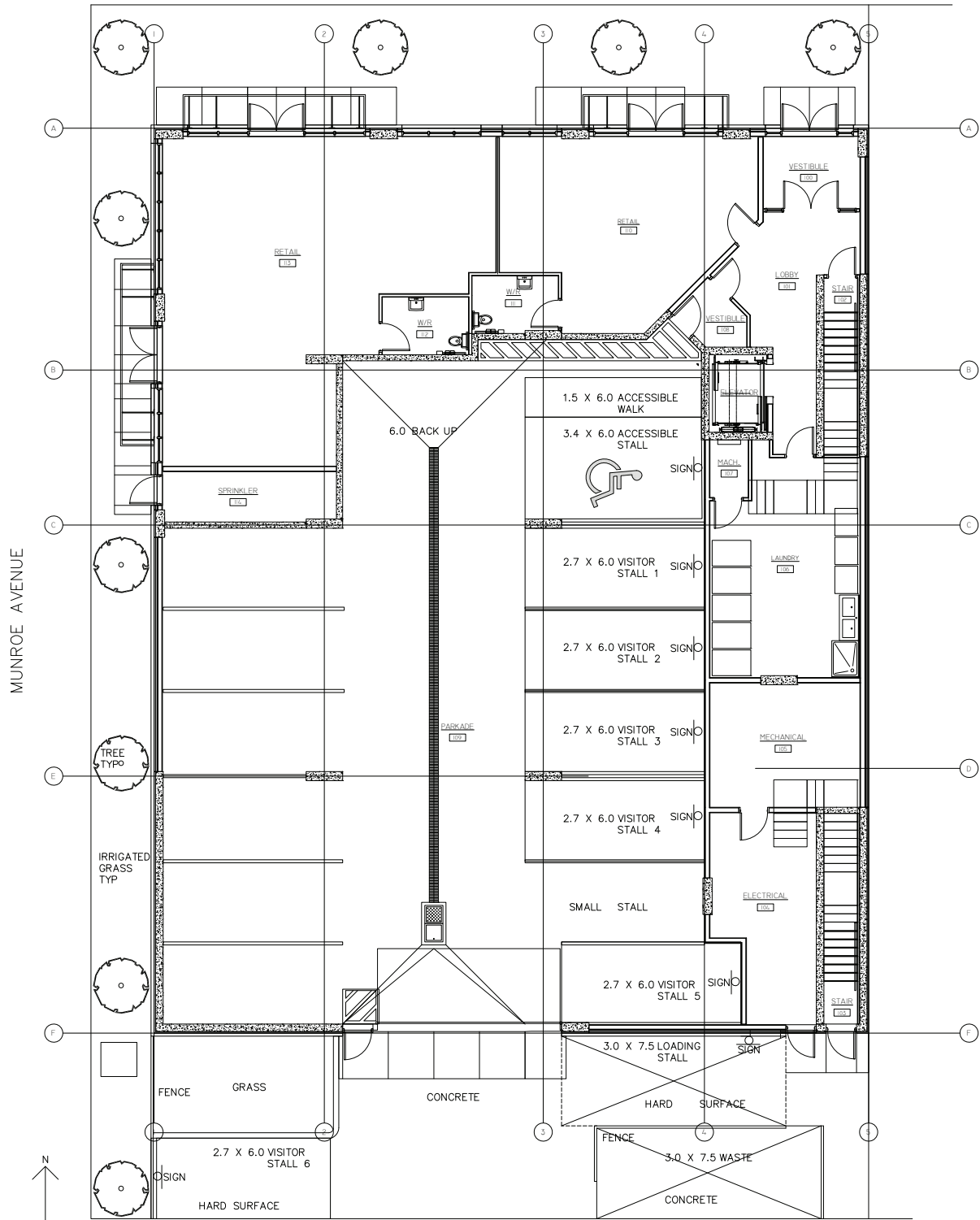
[Warning: This email originated outside our email system. Do not click links or open attachments unless you recognize the sender and know the content is safe.]

Please find attached our Site proposal for the above-referenced providing waste space and loading space, as such please withdraw this portion of our Appeal.

--

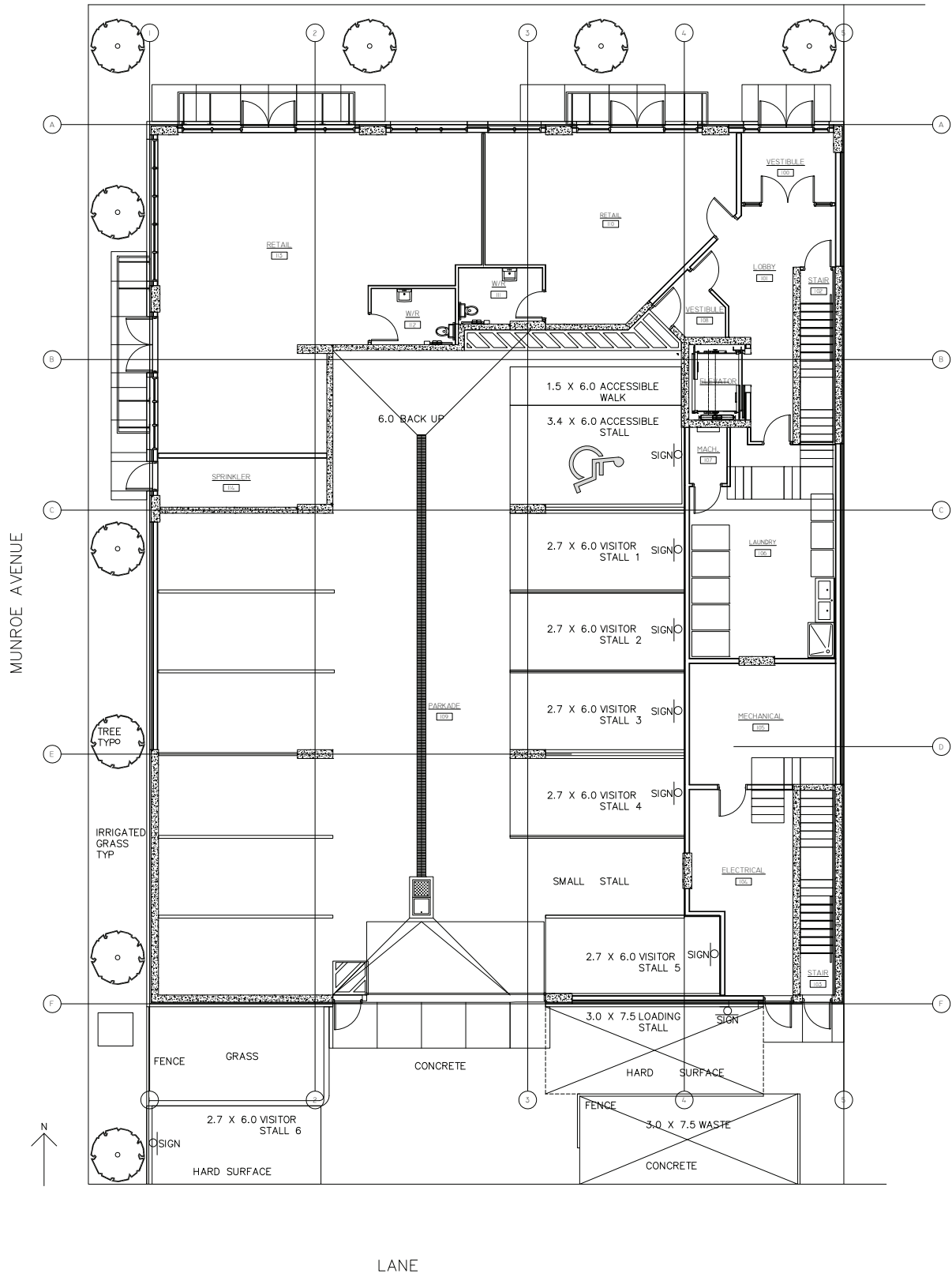
James D. Zimmer Architect
109 - 2002 Quebec Avenue
Saskatoon SK S7K 1W4
306 - 931 - 6622

COLLEGE DRIVE



LANE

COLLEGE DRIVE



R.1

February 19th, 2025

James Zimmer
James D Zimmer Architect
1249 8th St E
Saskatoon, SK S7H 0S5

SENT VIA EMAIL

Re: Development Permit Denial: APART-2025-00787
Proposal: Shopping Centre with Multiple Unit Dwelling (65 Dwelling Units)
Site Address: 1202/1204 College Drive
Zoning District: CS1 – Corridor Station Mixed-Use 1 District

The Planning and Development Division has reviewed your submitted Building and Development Permit application new shopping centre with a multiple unit dwelling. After review, the following deficiencies has been noted with the City of Saskatoon's Zoning Bylaw 9990:

1. Requirement: Section 10.4.4(2)(b) states for multiple unit dwellings or where dwelling units are erected above commercial, office or institutional, an interior side yard shall be provided for the part of the building containing such dwelling units of 1.5 metres, up to a height of 12 metres and 3 metres or that portion of the building in excess of 12 metres in height. No such side yard shall be required when no window, door or other opening is provided in the wall facing the adjacent property.

Proposed: Dwelling units are provided on the 2nd to 6th floors, with windows and doors along the East wall facing the adjacent property. A 0-metre interior side yard setback is proposed from the East portion of building containing dwellings, to the East property line.

Deficiency: This results in a East interior side yard deficiency of 1.5 metres for the first 12 metres of the building containing dwelling units, and a 3 metre East side yard for the portion of the building in excess of 12 metres in height that contain dwelling units.

2. Requirement: Section 5.2.6(2)(a) states waste spaces must be not less than 3 metres by 7.5 metres.

Proposed: The shown waste space is 3 metres by 6 metres.

Deficiency: This results in a waste space deficiency of 1.5 metres in length.

As consequence, the Planning and Development Division cannot approve your plans for a Development Permit.

I understand you wish to appeal this decision to the Development Appeal Board. To proceed with a appeal request please fill out the online Development Appeal application form available through the following link: <https://capps.saskatoon.ca/development-appeals/> within 30 days of the date of this letter. Note there is a application fee of \$50 for this process. Attached to this email is general information about the Development Appeal process, as well as a extract from the Planning and Development Act 2007.

Please note for this review, all dimension lines to the building were assumed to be from exterior finished building wall face, which may require clarification to should this proceed with a building and development permit application review.

If you have any questions about this information, please let me know.

Sincerely,



Vanessa Champagne
Planning and Development Division (306-975-2659)
vanessa.champagne@saskatoon.ca

cc: Michael Robertson, 14 North Construction Ltd
Brent McAdam, Planning and Development
Development Appeal Board Secretary, City Clerks

Received
City Clerk's Office
February 19, 2025

R.2

Appeal 9-2025

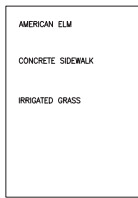
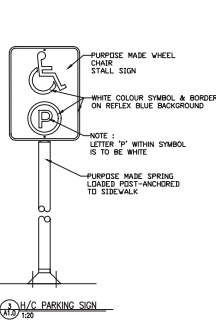
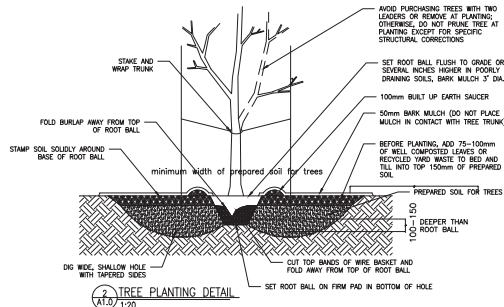
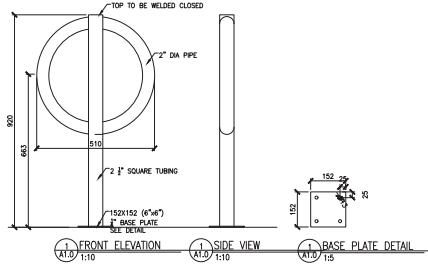


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SITE DATA

- ZONING: CSI - CORRIDOR STATION MIXED - USE I DISTRICT
- ADDRESS: 1202 AND 1204 COLLEGE DRIVE
- BUILDING FOOTPRINT: 722.8 SF
- PERMITTED USES: (ASSEMBLY / RETAIL / PERSONAL SERVICE / SHOPPING CENTRE) DWELLING UNITS NOT MAIN FLOOR
- ACTIVE FRONTAGE - MINIMUM 30% OF SURFACE AREA OF GROUND FLOOR OF ALL STREET FACING FACADES TO CONTAIN TRANSPARENT OPENINGS (COLLEGE DRIVE, MONROE AVENUE)
- SIDE WIDTH ISM: 25.91x M
- SITE AREA (DINN 420 HR: 1074.2 M²)
- FRONT YARD SETBACK: 4.0M
- SIDE YARD SETBACK: 2.0M AT FLANKING STREET / 0.0 M
- REAR YARD SETBACK: 6.0M
- BUILDING HEIGHT: MAX 27M (9.34 M BUILDING & 24.94 M ELEVATOR HEAD / STAIRWELLS / MECH MEZZ)
- ARENITY SPACE PER UNIT: 5M²
- ASSIGNED VISITOR PARKING STALLS: 6
- BARRIER FREE PARKING STALL: 1
- BIKE PARKING: 3 SHORT TERM BIKE STALLS MULTIPLE DWELLING; 2 SHORT TERM BIKE STALLS FOR MAIN FLOOR COMMERCIAL
- LOADING SPACE = 1 (7.5M X 3.0M)
- GARBAGE / RECYCLE STORAGE AND PICK UP SPACE = (7.5M X 3.0M)

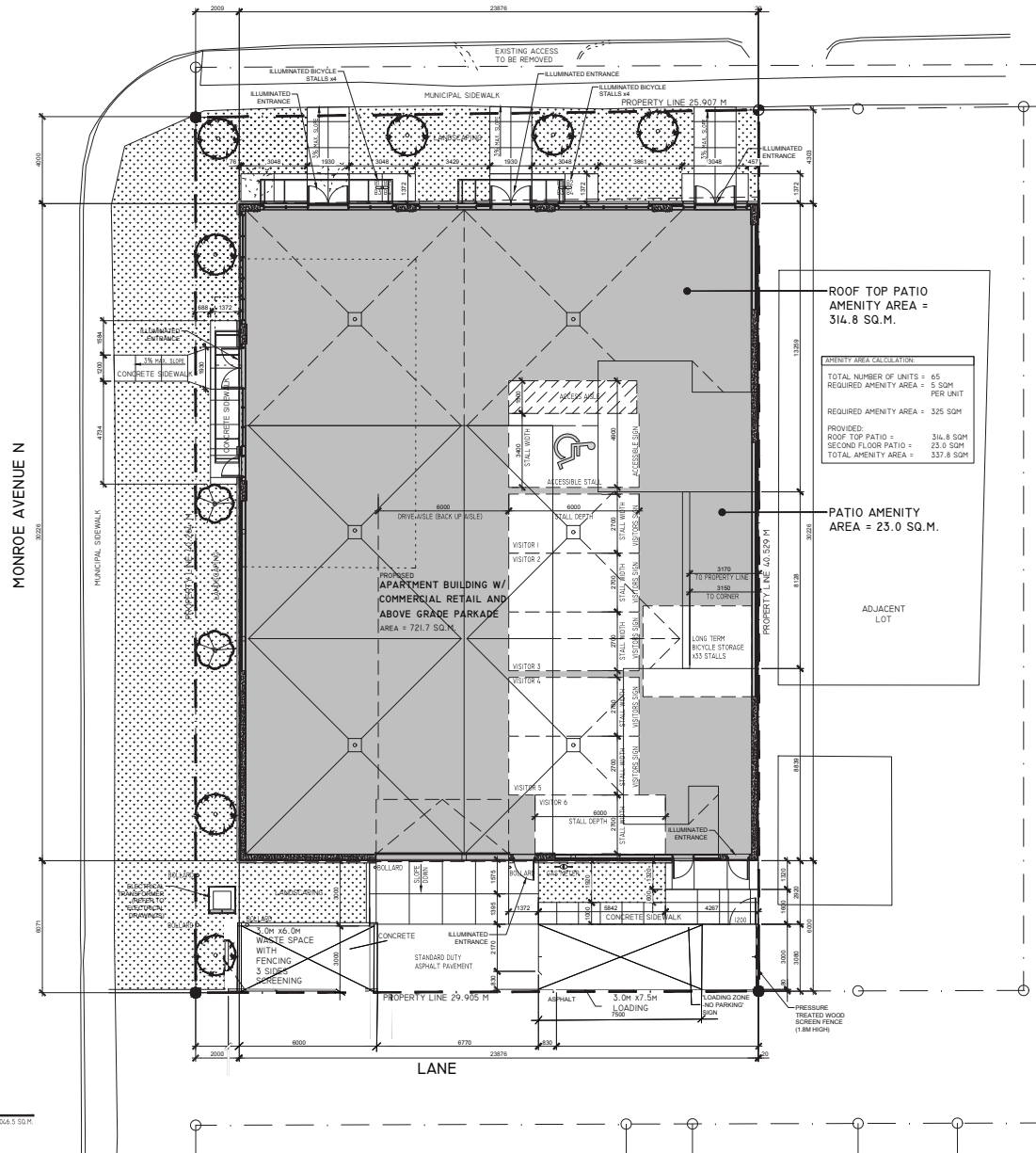


ADDRESS:
LEGAL: 1202 AND 1204,
BLOCK PLAN
CIVIC ADDRESS: 1202 COLLEGE DRIVE
MUNICIPALITY: CITY OF SASKATOON
PROVINCE: SASKATCHEWAN



R.3

COLLEGE DRIVE



ROOF TOP PATIO AMENITY AREA = 314.8 SQ.M.

| AMENITY AREA CALCULATION | |
|--------------------------|----------------|
| TOTAL NUMBER OF UNITS = | 65 |
| REQUIRED AMENITY AREA = | 5 SQM PER UNIT |
| REQUIRED AMENITY AREA = | 325 SQM |
| PROVIDED: | |
| ROOF TOP PATIO = | 314.8 SQM |
| SECOND FLOOR PATIO = | 23.0 SQM |
| TOTAL AMENITY AREA = | 337.8 SQM |

PATIO AMENITY AREA = 23.0 SQ.M.

| No. | REVISION | DATE |
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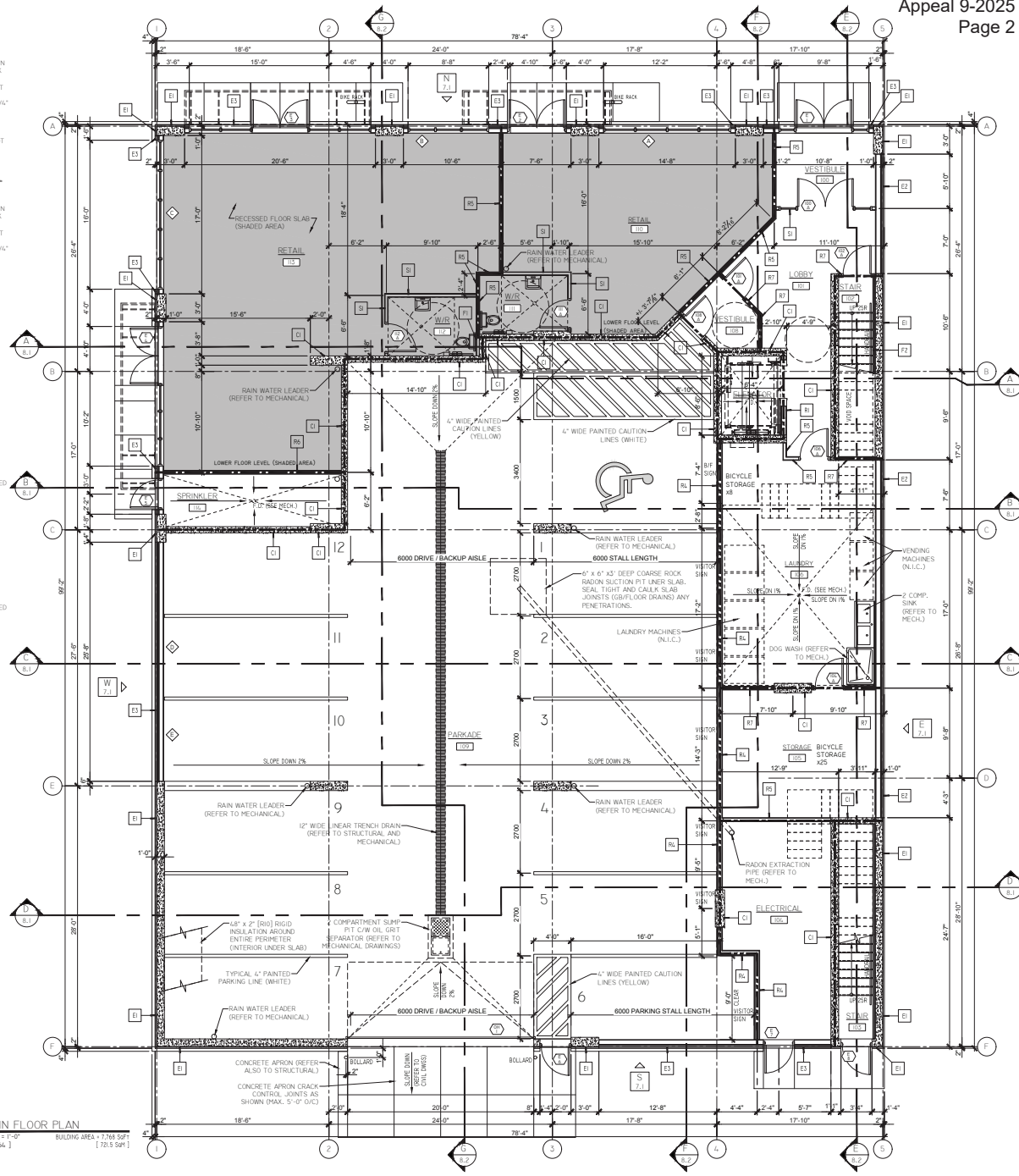
JAMES ZIMMER
ARCHITECT
810-202 8285-86 AVE.
SASKATOON, SASKATCHEWAN
S4N 1K2 CANADA

NOT FOR CONSTRUCTION

PROPOSED COLLEGE DRIVE APARTMENTS
1202 COLLEGE DRIVE
SASKATCHEWAN, SK
SITE PLAN

SCALE: AS NOTED
DRAWN: CDH SHEET:
CHECKED: -
DATE: AUG. 23, 2024
JOB NO.: 2024-17 A 2.1
2 of 4 PAGES

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- E1** E1-TYPICAL 1.0 HR. FRR LOANBEARING EXTERIOR NONCOMBUSTIBLE CLAD
 FINISH SHEAR WALL CONSTRUCTION
 (N.E.C. 2020 TABLE 9.01.3.1 & NO. W26 TO HS STC 361)
 -ACRYLIC STUCCO EXTERIOR EIFS SYSTEMS TO ADEX SYSTEM INC. DESIGN
 NO. ASI/WEIFS 25-01(EFS) ADEX-RS SYSTEMS CANULIC SIDA (INTERTEK
 APPROVAL, OCTOBER 9, 2008) (DEEMED NONCOMBUSTIBLE)
 -2" EIFS EXTERIOR NONCOMBUSTIBLE CLADDING, WOODPECKER RESISTANT
 ACRYLIC ADEX STUCCO FINISH AND PRIME COAT ON ADEX MESH 3"
 ADEX-GD OR ADEX FLAT INSULATION BOARD, INCLUDE NOT LESS THAN 1/4"
 DEEP DRAINAGE PATH FOR WATER THAT PENETRATES PAST THE
 EXTERIOR CLADDING.
 -ADEX SYSTEMS WATER RESISTIVE BARRIER
 -10" CONCRETE SHEAR WALL
 -NOTES REFER TO PLAN FOR LOCATIONS WHERE EIFS CLADDING NEED NOT
 BE NONCOMBUSTIBLE.
- E2** E2-TYPICAL NONCOMBUSTIBLE / NONCOMBUSTIBLE CLAD 1.0 HR. FRR WALL
 WITH 1.0 HR. FRR LOAN BEARING EXTERIOR WALL CONSTRUCTION
 (N.E.C. 2020 TABLE 9.01.3.1 & NO. W26 TO HS STC 361)
 -ACRYLIC STUCCO EXTERIOR EIFS SYSTEMS TO ADEX SYSTEM INC. DESIGN
 NO. ASI/WEIFS 25-01(EFS) ADEX-RS SYSTEMS CANULIC SIDA (INTERTEK
 APPROVAL, OCTOBER 9, 2008) (DEEMED NONCOMBUSTIBLE)
 -2" EIFS EXTERIOR NONCOMBUSTIBLE CLADDING, WOODPECKER RESISTANT
 ACRYLIC ADEX STUCCO FINISH AND PRIME COAT ON ADEX MESH 3"
 ADEX-GD OR ADEX FLAT INSULATION BOARD, INCLUDE NOT LESS THAN 1/4"
 DEEP DRAINAGE PATH FOR WATER THAT PENETRATES PAST THE
 EXTERIOR CLADDING.
 -ADEX SYSTEMS WATER RESISTIVE BARRIER
 -5/8" TYPE X GLASS/J. DENGLAS SHEATHING, FIRE TAPED
 -2 1/2" STEEL STUDS AT 16" O.C.
 -2 1/2" ROCKWOOL
 -5/8" TYPE X GYPSUM BOARD, FIRE TAPED
 -1/2" PLYWOOD SHEATHING
 -2" X 4" WOOD STUDS, STUD SPACING REFER TO STRUCTURAL
 -5 1/2" FIBERGLASS INSULATION
 -5/8" TYPE X GYPSUM BOARD, TAPED, SANDED AND PAINTED
 -FRR (MAX FLAME SPREAD RATING ISO LINER TO 4" HIGH ON PARKADE
 SIDE)
- C1** C1-PARKADE CONCRETE DEMISING WALL CONSTRUCTION
 (N.E.C. 2020 TABLE 9.01.3.1 & NO. W26 TO HS STC 361)
 -EXPOSED CONCRETE FINISH
 -CONCRETE WALL OR COLUMN (REFER TO STRUCTURAL) C/W NOT LESS
 THAN 1" CONCRETE COVER OVER REINFORCED STEEL
 -EXPOSED CONCRETE FINISH
- R1** R1-ELEVATOR FRAMING LOBBY / CORRIDOR
 (N.E.C. 2020 TABLE 9.01.3.1 & NO. W26 TO HS STC 361) (SM TO)
 -ELEVATOR SIDE
 -DOUBLE LAYER 5/8" TYPE X GYPSUM BOARD, TAPED, SANDED AND PAINTED
 EXPOSED SIDES (ELEVATOR SIDE)
 -3/4" PLYWOOD SHEATHING SHAFT LINER (REFER TO STRUCTURAL)
 -LOAD BEARING WALL, 2" X 4" WOOD STUDS, STUD SPACING REFER TO
 STRUCTURAL (WOOD BLOCKING FIRE STOPPING MAX 10 FT. O.C.
 HORIZONTAL)
 -5/8" TYPE X GYPSUM BOARD, TAPED, SANDED AND PAINTED EXPOSED
 SIDES)
- R4** R4-PARKADE FRAMING
 (N.E.C. 2020 TABLE 9.01.3.1 & NO. W26 TO HS STC 361) (SM TO)
 -PARKADE SIDE
 -FRR LINER (MAX FLAME SPREAD RATING ISO TO 48" HIGH
 DOUBLE LAYER 5/8" TYPE X GYPSUM BOARD, TAPED, SANDED AND PAINTED
 EXPOSED SIDES)
 -LOAD BEARING WALL, 2" X 4" WOOD STUDS, STUD SPACING REFER TO
 STRUCTURAL (WOOD BLOCKING FIRE STOPPING MAX 10 FT. O.C.
 HORIZONTAL)
 -5/8" TYPE X GYPSUM BOARD, TAPED, SANDED AND PAINTED EXPOSED
 SIDES)
- R5** R5-TENANT / JANITRY FIRE SEPARATION
 (N.E.C. 2020 TABLE 9.01.3.1 & NO. S16 TO HS STC 361)
 -5/8" TYPE X GYPSUM BOARD, TAPED, SANDED AND PAINTED EXPOSED
 SIDES)
 -3 5/8" STEEL STUDS AT 16" O.C. C/W REO'D BRIDGING AND BRACING
 -3 1/2" MINERAL WOOL INSULATION
 -5/8" TYPE X GYPSUM BOARD, TAPED, SANDED AND PAINTED EXPOSED
 SIDES)
- R6** R6-SPRINKLER / RETAIL FIRE SEPARATION
 (N.E.C. 2020 TABLE 9.01.3.1 & NO. S16 TO HS STC 361) (SM TO)
 -SPRINKLER ROOM SIDE
 -1/2" PRIMED AND PAINTED PLYWOOD SHEATHING
 -5/8" TYPE X GYPSUM BOARD, TAPED, SANDED AND PAINTED EXPOSED
 SIDES)
 -3 5/8" STEEL STUDS AT 16" O.C. C/W REO'D BRIDGING AND BRACING
 -3 1/2" MINERAL WOOL INSULATION
 -5/8" TYPE X GYPSUM BOARD, TAPED, SANDED AND PAINTED EXPOSED
 SIDES)
- R7** R7-STEEL STUD FRAMED FIRE SEPARATION
 (GYPSUM ASSOCIATION, NO. SWP 1072-1.0 HS STC 45)
 -5/8" TYPE X GYPSUM BOARD, TAPED, SANDED AND PAINTED EXPOSED
 SIDES)
 -3 5/8" STEEL STUDS AT 16" O.C. C/W REO'D BRIDGING AND BRACING
 -5/8" TYPE X GYPSUM BOARD, TAPED, SANDED AND PAINTED EXPOSED
 SIDES)
- F1** F1-STEEL STUD CURBING WALL CONSTRUCTION
 -1/2" GYPSUM BOARD, TAPED, SANDED AND PAINTED EACH SIDE
 (WATER RESISTANT GYPSUM BOARD IN WASHROOMS)
 -3 5/8" STEEL STUDS 16" O.C.
- F2** F2-STAIR FLOORING WALL CONSTRUCTION
 -5/8" GYPSUM BOARD, TAPED, SANDED AND PAINTED
 -2" STEEL STUDS 16" O.C. (ANCHOR BACK TO CONCRETE WALL AS REQ'D)
- S2** S2-INTERIOR STEEL STUD WALL CONSTRUCTION
 -1/2" GYPSUM BOARD, TAPED, SANDED AND PAINTED EACH SIDE
 -3 5/8" STEEL STUDS 16" O.C.
 -1/2" ACOUSTIC INSULATION
 -1/2" GYPSUM BOARD, TAPED, SANDED AND PAINTED EACH SIDE

| No. | REVISION | DATE |
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JAMES ZIMMER
 ARCHITECT
 #100-2002 ZIMMER AVE.
 SASKATOON, SASKATCHEWAN
 (306) 933-8827

NOT FOR CONSTRUCTION

PROPOSED
 COLLEGE DRIVE APARTMENTS
 1202 COLLEGE DRIVE
 SASKATCHEWAN, SK
 MAIN FLOOR PLAN

SCALE: AS NOTED
 DRAWN: EDH
 CHECKED: -
 DATE: AUG. 23, 2024
 JOB NO.: 2024-11
 SHEET: A 3.1
 4 of 11 PAGES

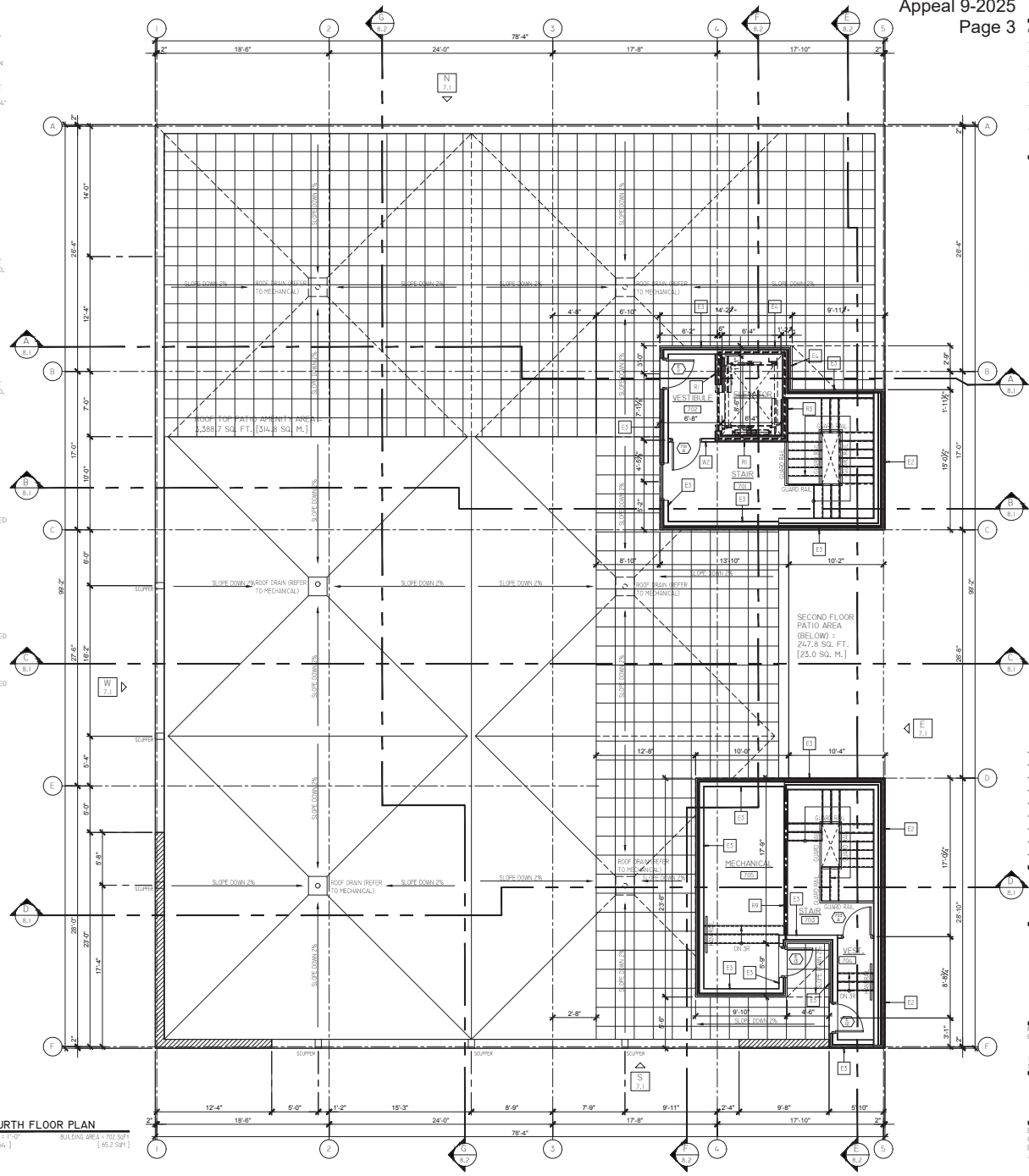


MAIN FLOOR PLAN
 2100 ± 1'-0" BUILDING AREA / 7768 SQF
 [1:1 = 64'] [70.3 SQF]

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- E2- TYPICAL NONCOMBUSTIBLE / NONCOMBUSTIBLE CLAD 1.0 HR FRR WALL WITH 1.0 HR LOAD BEARING EXTERIOR WALL CONSTRUCTION**
(NEC 2020 TABLE 9.05.3.1-A-NO. 508-509-510)
 - ACRYLIC STUCCO EXTERIOR EIFS SYSTEMS TO ADEX SYSTEM INC. DESIGN NO. ASDWEPFS-2-01EFS) ACRYLIC SYSTEMS CANVUS SGA (INTEREX APPROVAL, OCTOBER 9, 2018) (DEEMED NONCOMBUSTIBLE)
 - 2" EPS EXTERIOR NONCOMBUSTIBLE CLADDING, WOODPECKER RESISTANT ACRYLIC ADEX STUCCO FINISH AND PRIME COAT ON MESH 3" INSULATION BOARD, INCLUDE NOT LESS THAN 1/4" DEEP DRAINAGE PATH FOR WATER THAT PENETRATES PAST THE EXTERIOR CLADDING.
 - ADEX SYSTEMS WATER RESISTIVE BARRIER
 - 5/8" TYPE X GLASROC / DENSGLAS SHEATHING, FIRE RATED
 - 2 1/2" STEEL STUDS AT 16" O.C.
 - 2 1/2" ROCKWOOL
 - 5/8" TYPE X GYPSUM BOARD, FIRE TAPED
 - 1/2" PLYWOOD SHEATHING
 - 2" X 6" WOOD STUDS, STUD SPACING REFER TO STRUCTURAL
 - 3 1/2" FIBERGLASS INSULATION
 - 5/8" TYPE X GYPSUM BOARD, TAPED, SANDED AND PAINTED
 - FRR (MAX FLAME SPREAD RATING 150) LINER TO G- HIGH ON PARKADE SIDE
- E3- TYPICAL 1.0 HR FRR LOAD BEARING EXTERIOR WALL CONSTRUCTION**
(NEC 2020 TABLE 9.05.3.1-A-NO. 508-NO. 510-511)
 - ACRYLIC STUCCO EXTERIOR EIFS SYSTEM
 - 2" EPS EXTERIOR NONCOMBUSTIBLE CLADDING, WOODPECKER RESISTANT ACRYLIC STUCCO FINISH AND PRIME COAT ON MESH 3" INSULATION BOARD, INCLUDE NOT LESS THAN 1/4" DEEP DRAINAGE PATH FOR WATER THAT PENETRATES PAST THE EXTERIOR CLADDING.
 - WATER RESISTIVE BARRIER
 - 1/2" PLYWOOD SHEATHING
 - 2" X 6" WOOD STUDS, STUD SPACING REFER TO STRUCTURAL
 - 3 1/2" FIBERGLASS INSULATION
 - 5/8" TYPE X GYPSUM BOARD, TAPED, SANDED AND PAINTED
- E4- TYPICAL 1.0 HR FRR LOAD BEARING EXTERIOR WALL CONSTRUCTION**
(NEC 2020 TABLE 9.05.3.1-A-NO. 508-NO. 510-511)
 - ACRYLIC STUCCO EXTERIOR EIFS SYSTEM
 - 2" EPS EXTERIOR NONCOMBUSTIBLE CLADDING, WOODPECKER RESISTANT ACRYLIC STUCCO FINISH AND PRIME COAT ON MESH 3" INSULATION BOARD, INCLUDE NOT LESS THAN 1/4" DEEP DRAINAGE PATH FOR WATER THAT PENETRATES PAST THE EXTERIOR CLADDING.
 - WATER RESISTIVE BARRIER
 - 1/2" PLYWOOD SHEATHING
 - 2" X 6" WOOD STUDS, STUD SPACING REFER TO STRUCTURAL
 - 3 1/2" FIBERGLASS INSULATION
 - 3/4" PLYWOOD SHEATHING
 - DOUBLE LAYER OF 5/8" TYPE X GYPSUM BOARD, TAPED, SANDED AND PAINTED
- R1- ELEVATOR FRAMING (LOBBY / CORRIDOR)**
(N.B.C. 2020 TABLE 9.05.3.1-A-NO. 509-1.0 HR STC 3/2) (SM TO)
 - ELEVATOR SIDE
 - DOUBLE LAYER 5/8" TYPE X GYPSUM BOARD, TAPED, SANDED AND PAINTED EXPOSED SIDES (ELEVATOR SIDE)
 - 3/4" PLYWOOD SHEATHING SHAFT LINER (REFER TO STRUCTURAL)
 - LOAD BEARING WALL, 2" X 6" WOOD STUDS, STUD SPACING REFER TO STRUCTURAL (WOOD BLOCKING FIRE STOPPING MAX 10 FT. O.C. HORIZONTAL)
 - 5/8" TYPE X GYPSUM BOARD, TAPED, SANDED AND PAINTED EXPOSED SIDES
- R2- ELEVATOR FRAMING (STAIR)**
(N.B.C. 2020 TABLE 9.05.3.1-A-NO. 509-1.5 HR STC 3/4) (SM TO)
 - ELEVATOR SIDE
 - DOUBLE LAYER 5/8" TYPE X GYPSUM BOARD, TAPED, SANDED AND PAINTED EXPOSED SIDES
 - 3/4" PLYWOOD SHEATHING SHAFT LINER (REFER TO STRUCTURAL)
 - LOAD BEARING WALL, 2" X 6" WOOD STUDS, STUD SPACING REFER TO STRUCTURAL (WOOD BLOCKING FIRE STOPPING MAX 10 FT. O.C. HORIZONTAL)
 - DOUBLE LAYER 5/8" TYPE X GYPSUM BOARD, TAPED, SANDED AND PAINTED EXPOSED SIDES
- R3- SHAFT WALL CONSTRUCTION**
(NEC 2020 TABLE 9.05.3.1-A-NO. 509-1.0 HR STC 3/2)
 - 5/8" TYPE X GYPSUM BOARD, TAPED, SANDED AND PAINTED
 - 2" X 4" WOOD STUDS, STUD SPACING REFER TO STRUCTURAL
 - DOUBLE BOTTOM PLATE AND DOUBLE TOP PLATE
 - 5/8" TYPE X GYPSUM BOARD, TAPED, SANDED AND PAINTED



FOURTH FLOOR PLAN
21/0" = 1'-0"
[1:64] BUILDING AREA = 103 SQ' [85.2 SQ']

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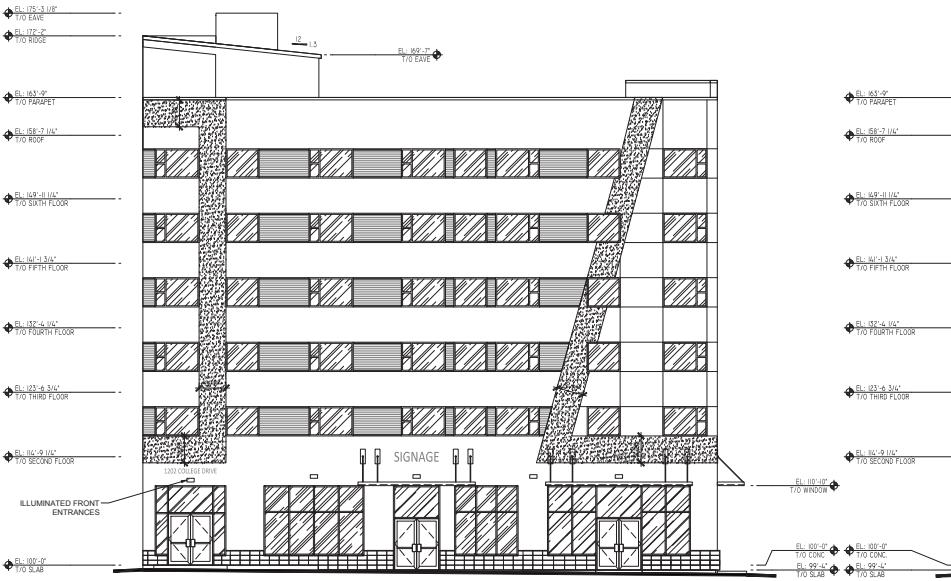
JAMES ZIMMER ARCHITECT
#10-2001 2100 E. AVE.
SASKATOON, SASKATCHEWAN
S4N 1K5-6B27

PROPOSED
COLLEGE DRIVE APARTMENTS
1202 COLLEGE DRIVE
SASKATCHEWAN, SK
ROOF PLAN

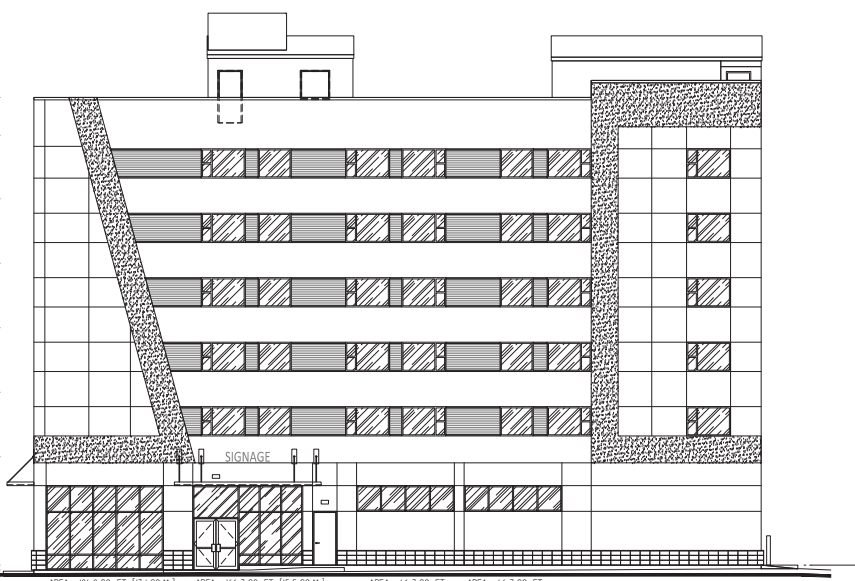
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CHECKED: -
DATE: AUG. 23, 2024 A 3.7
JOB NO.: 2024-17 10' x 14' 6"

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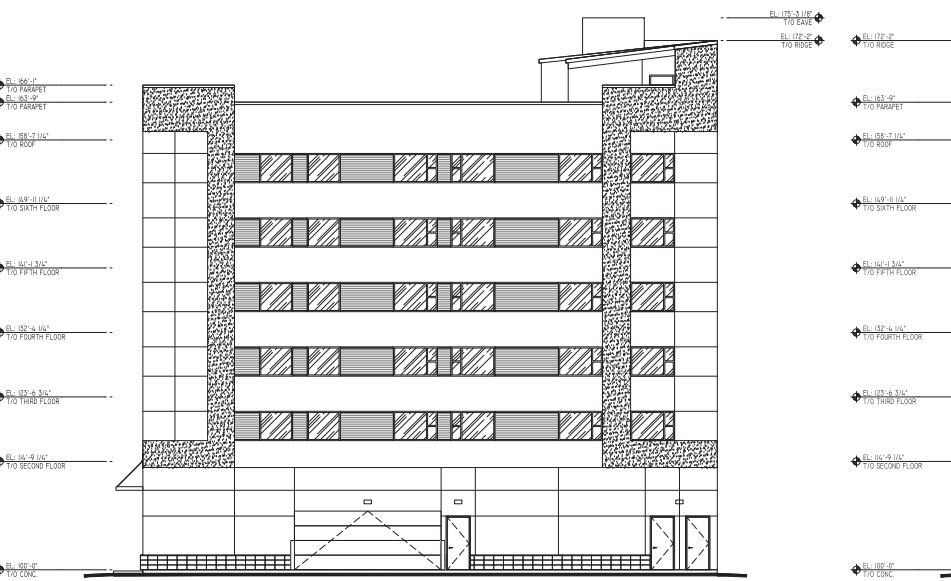


NORTH ELEVATION (COLLEGE DRIVE)
1/8" = 1'-0"
[1 : 96]

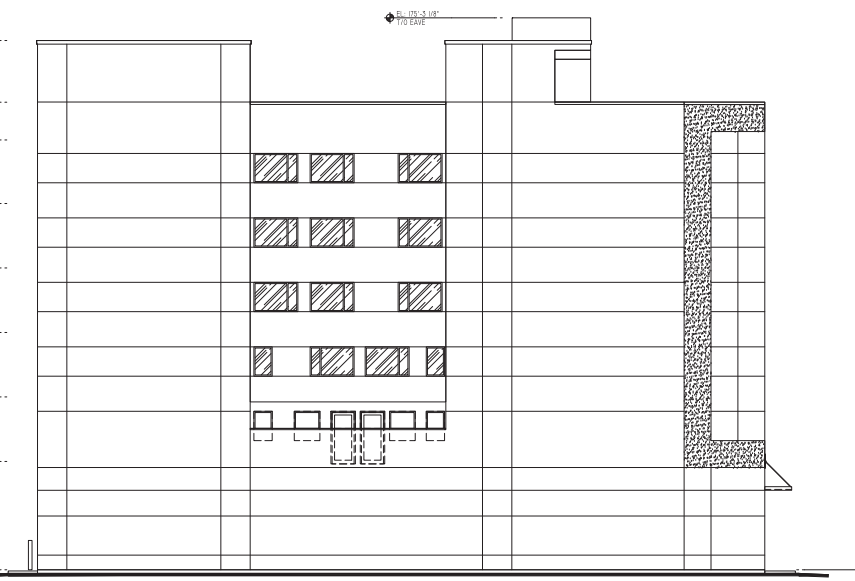


WEST ELEVATION (MUNROE AVE. N.)
1/8" = 1'-0"
[1 : 96]

AREA = 184.0 SQ. FT. [17.1 SQ.M.] AREA = 166.7 SQ. FT. [15.5 SQ.M.] AREA = 46.7 SQ. FT. [4.3 SQ.M.] AREA = 46.7 SQ. FT. [4.3 SQ.M.]
WALL AREA = 1454.9 SQ. FT. [134.1 SQ.M.]
RE/D'D TRANSPARENT AREA (30x8) = 439.5 FT. [40.8 SQ.M.]
PROPOSED GLAZING AREA = 444.1 FT. [41.2 SQ.M.]



SOUTH ELEVATION (LANE)
1/8" = 1'-0"
[1 : 96]



EAST ELEVATION
1/8" = 1'-0"
[1 : 96]

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ARCHITECT
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SASKATCHEWAN, SASKATCHEWAN
S4N 1G5-2G27

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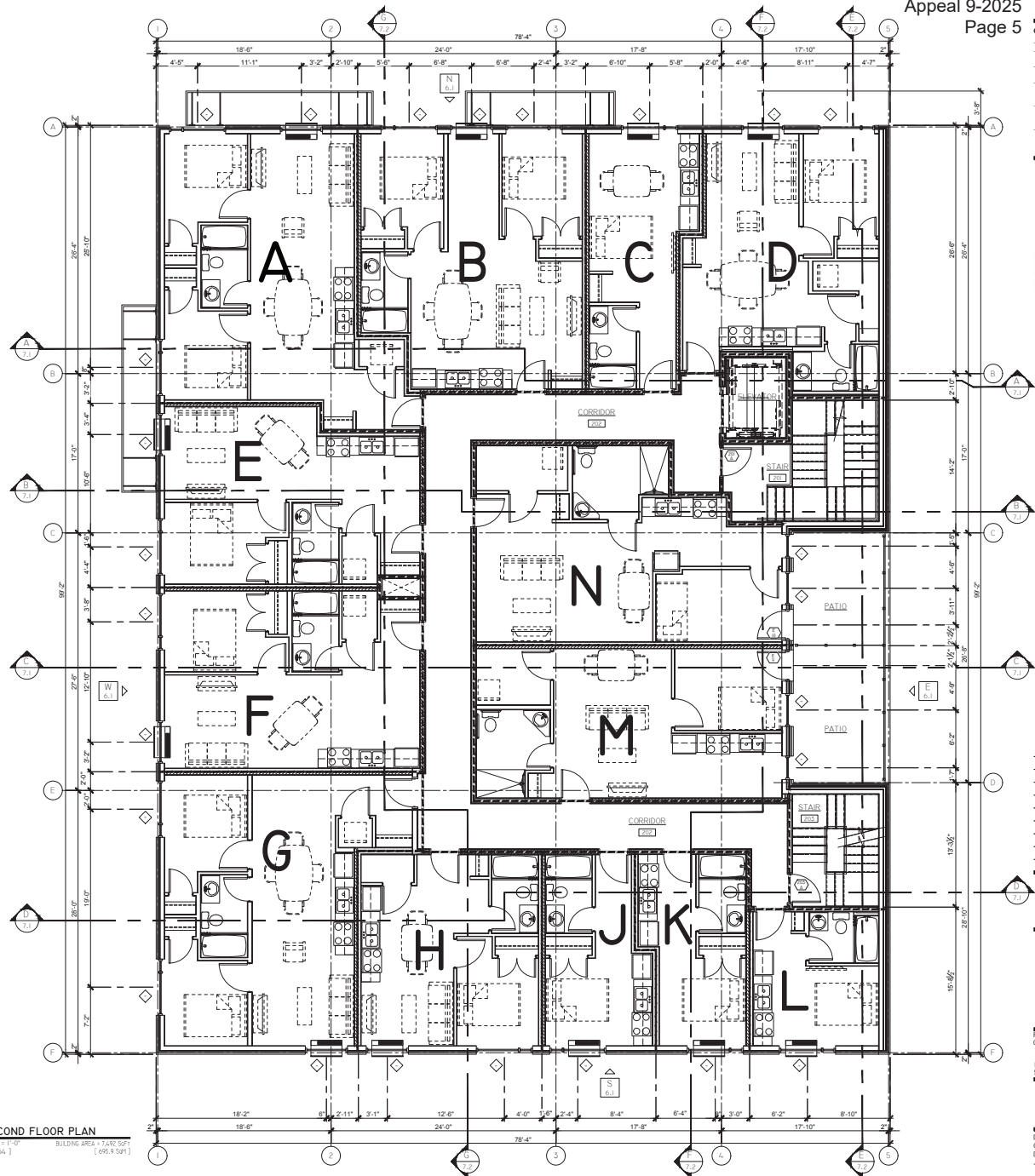
PROPOSED
COLLEGE DRIVE APARTMENTS
1202 COLLEGE DRIVE
SASKATCHEWAN, SK
BUILDING ELEVATIONS

SCALE: AS NOTED
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JOB NO.: 2024-17 08-23-2024

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ARCHITECT**
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 SASKATOON, SASKATCHEWAN
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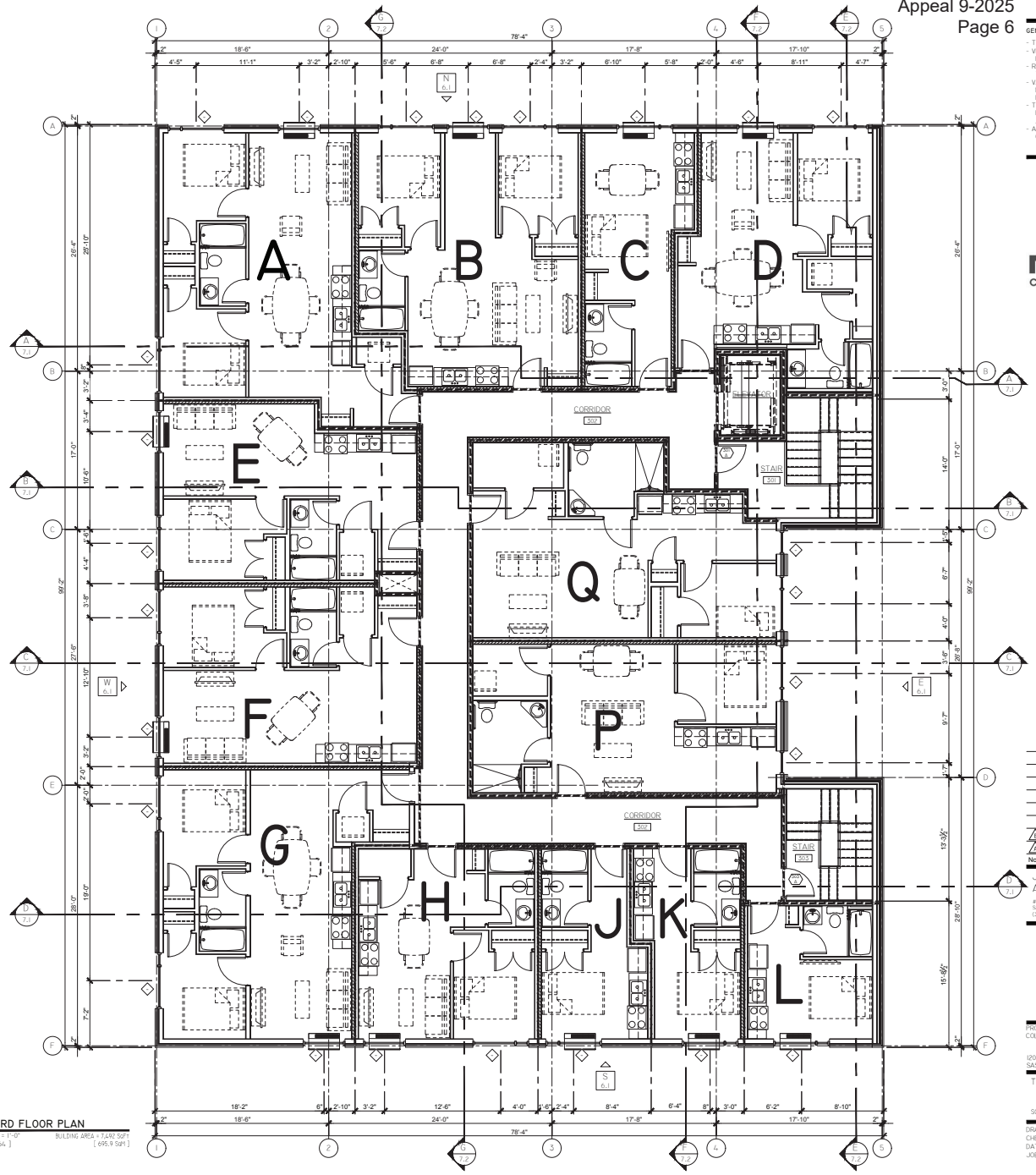
PROPOSED
 COLLEGE DRIVE APARTMENTS
 1202 COLLEGE DRIVE
 SASKATCHEWAN, SK
 SECOND FLOOR PLAN

SCALE: AS NOTED
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 DATE: AUG. 23, 2024 5 of 10 PAGES
 JOB NO.: 2024-17



SECOND FLOOR PLAN
 2/10" = 1'-0" BUILDING AREA: 7420 SQFT
 [1: 64] [695.9 SQM]

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 SASKATOON, SASKATCHEWAN
 S4S 0G7-8A27

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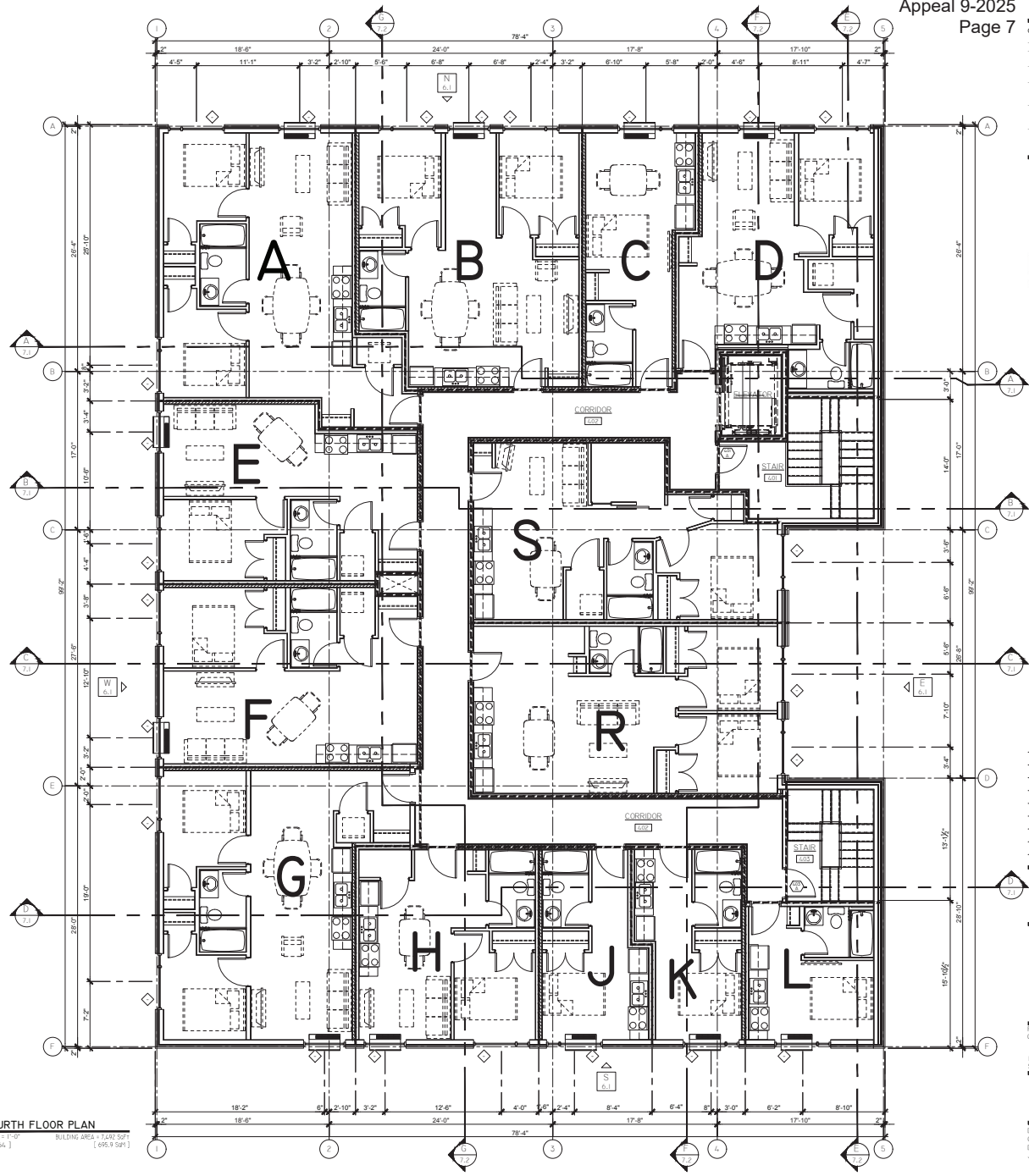
PROPOSED
 COLLEGE DRIVE APARTMENTS
 1202 COLLEGE DRIVE
 SASKATCHEWAN, SK
 THIRD FLOOR PLAN

SCALE: AS NOTED
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 CHECKED: - A 3.3
 DATE: AUG. 23, 2024 6 of 14
 JOB NO.: 2024-17



THIRD FLOOR PLAN
 2/10/24 = 1'-0"
 [1: 64'] BUILDING AREA: 7420 SQFT
 [695.9 SQM]

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JAMES ZIMMER
 ARCHITECT
 #10-2002 GREEK AVE.
 SASKATOON, SASKATCHEWAN
 S4S 1G3-6627

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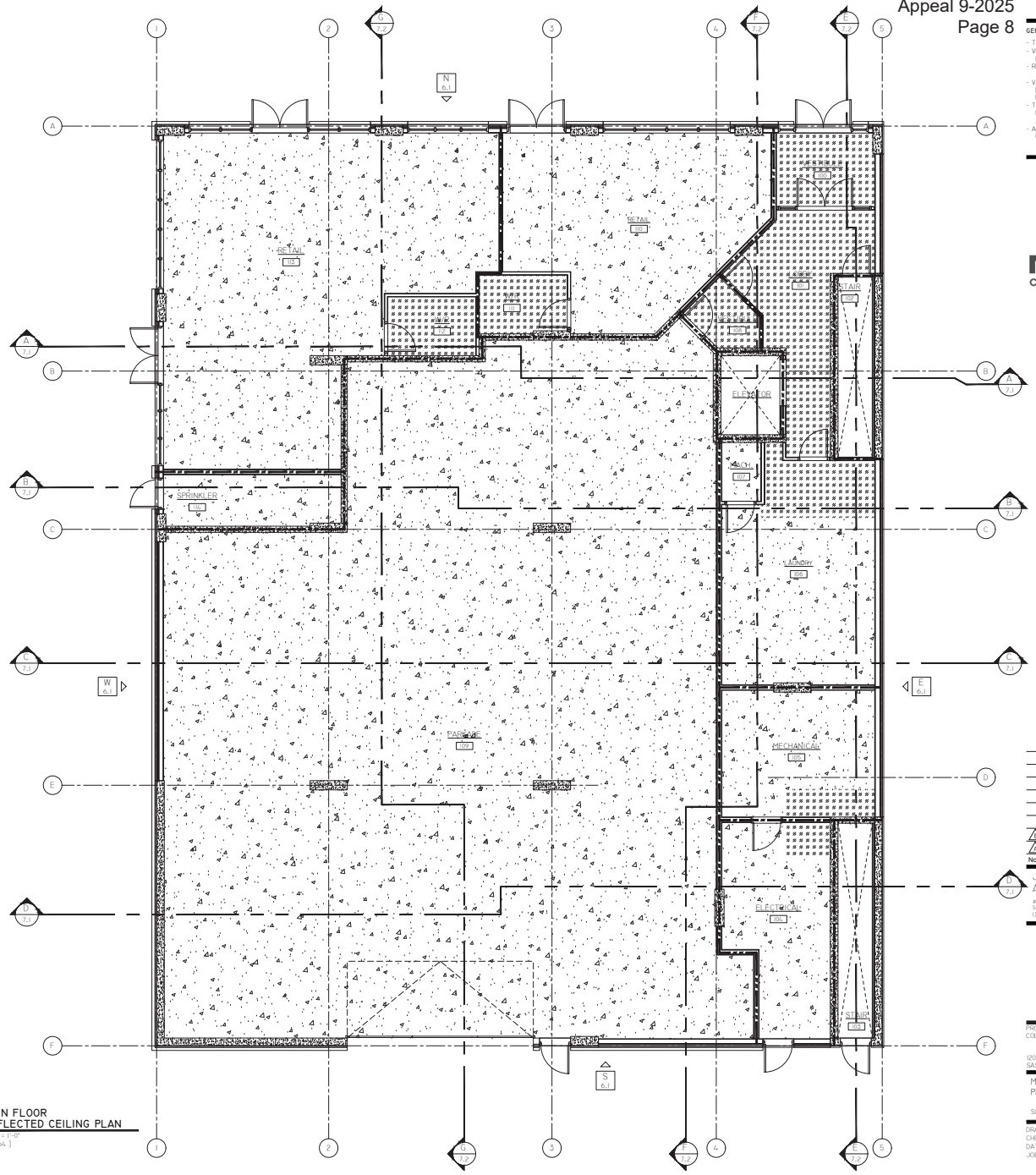
PROPOSED
 COLLEGE DRIVE APARTMENTS
 1202 COLLEGE DRIVE
 SASKATCHEWAN, SK
 FOURTH FLOOR PLAN

SCALE: AS NOTED
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 DATE: AUG. 23, 2024 7 of 7 - PAGES
 JOB NO.: 2024-17



FOURTH FLOOR PLAN
 2/10" = 1'-0" BUILDING AREA: 7420 SQFT
 [1: 64'] [695.9 SQM]

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 #10-200-2128/EC, AVE.
 255 KENTON, SASKATOON, SK
 S4N 1Y3-2627

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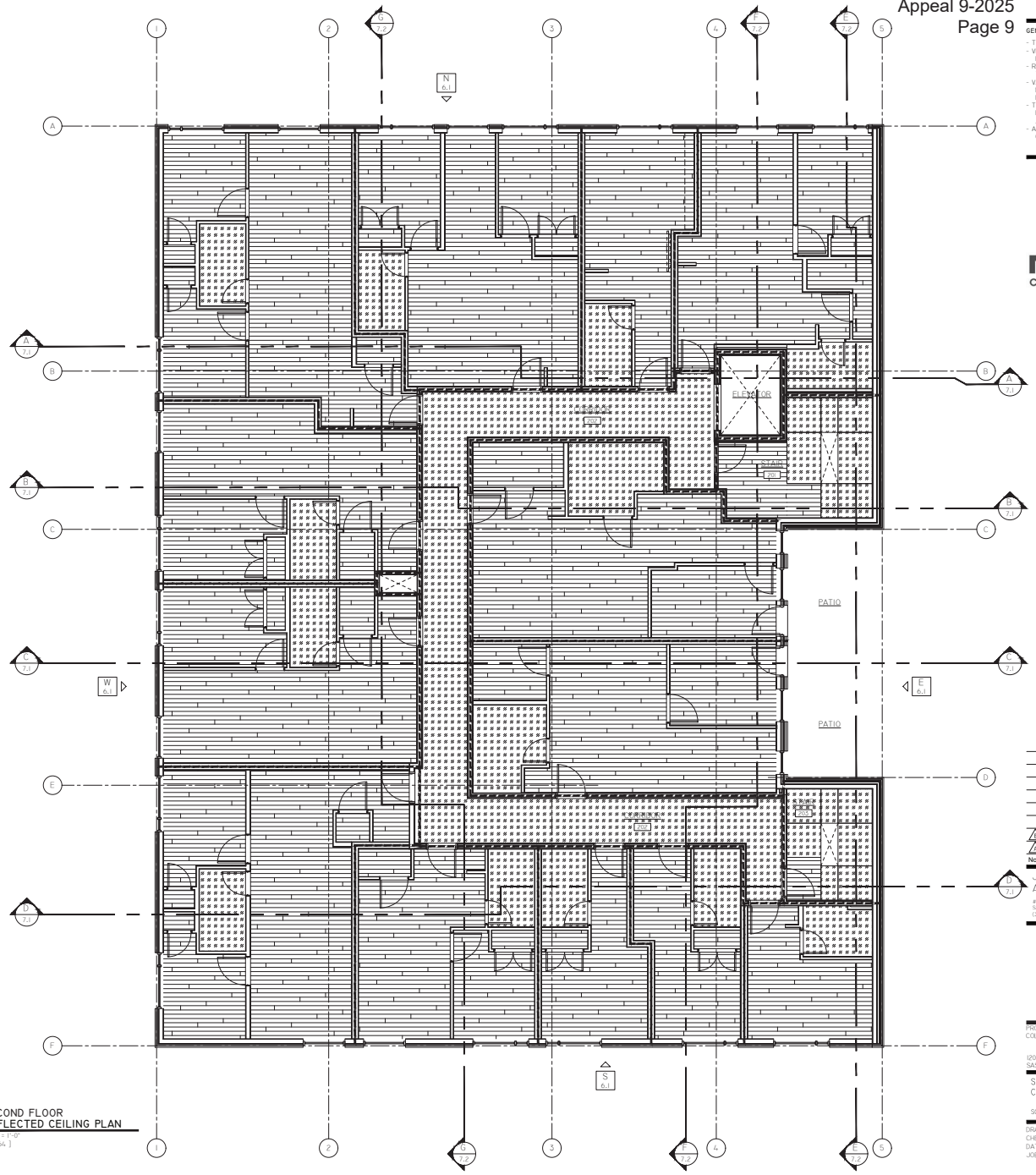
PROPOSED
 COLLEGE DRIVE APARTMENTS
 1202 COLLEGE DRIVE
 SASKATCHEWAN, SK
 MAIN FLOOR REFLECTED CEILING
 PLAN

SCALE: AS NOTED
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 DATE: AUG. 23, 2024 9 OF 11 SHEETS
 JOB NO.: 2024-17

**MAIN FLOOR
 REFLECTED CEILING PLAN**
 2/16/24 1:10"
 [1:1/64"]



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 #110-200 12TH AVE.
 SASKATOON, SASKATCHEWAN
 S4S 0G7

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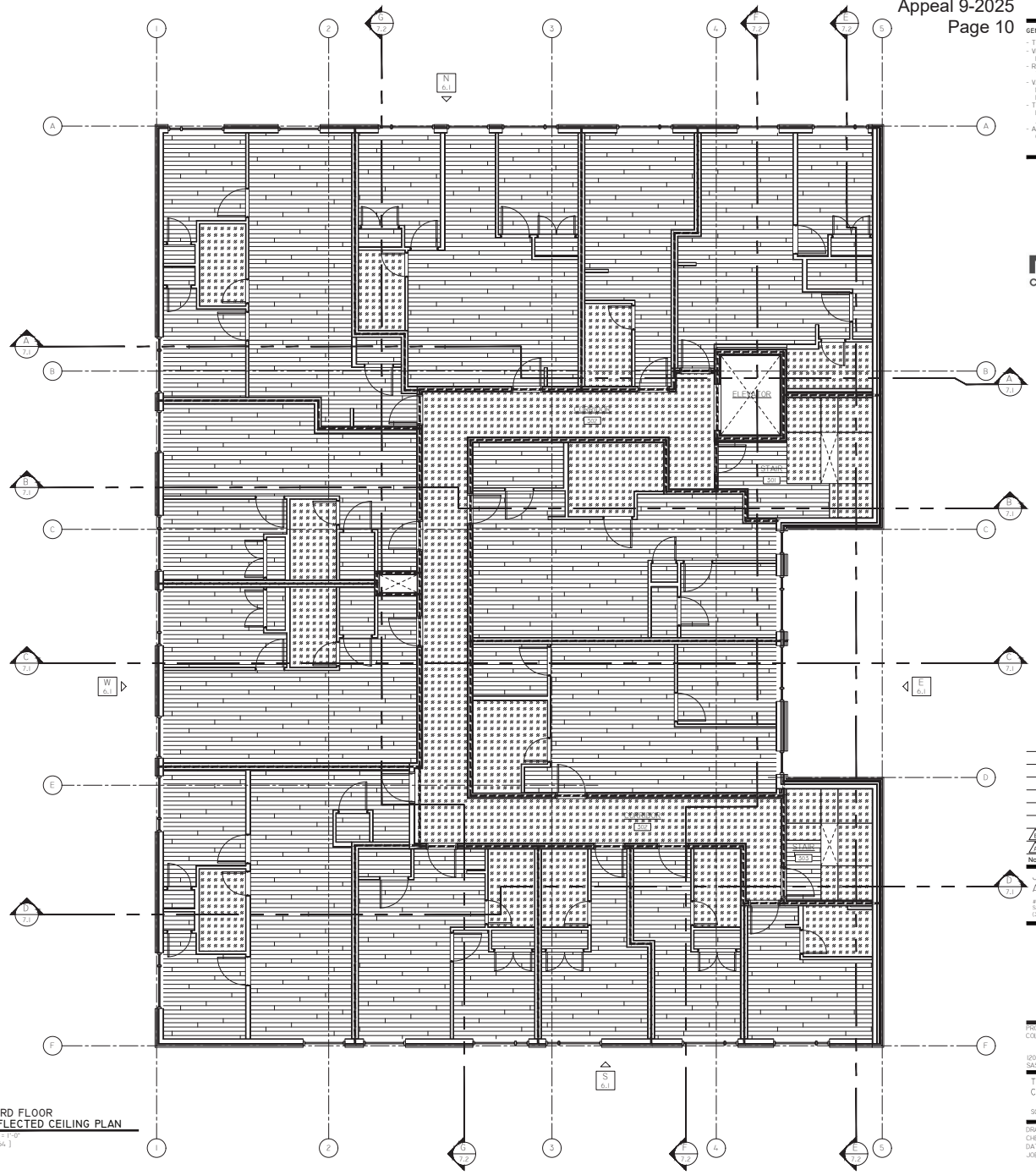
PROPOSED
 COLLEGE DRIVE APARTMENTS
 1202 COLLEGE DRIVE
 SASKATCHEWAN, SK
 SECOND FLOOR REFLECTED
 CEILING PLAN

SCALE: AS NOTED
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SECOND FLOOR REFLECTED CEILING PLAN
 2/16" = 1'-0"
 [1:16]



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 ARCHITECT
 #110-200 ZEEBIC AVE.
 SASKATOON, SASKATCHEWAN
 S4S 0G7

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PROPOSED
 COLLEGE DRIVE APARTMENTS
 1202 COLLEGE DRIVE
 SASKATCHEWAN, SK
 THIRD FLOOR REFLECTED
 CEILING PLAN

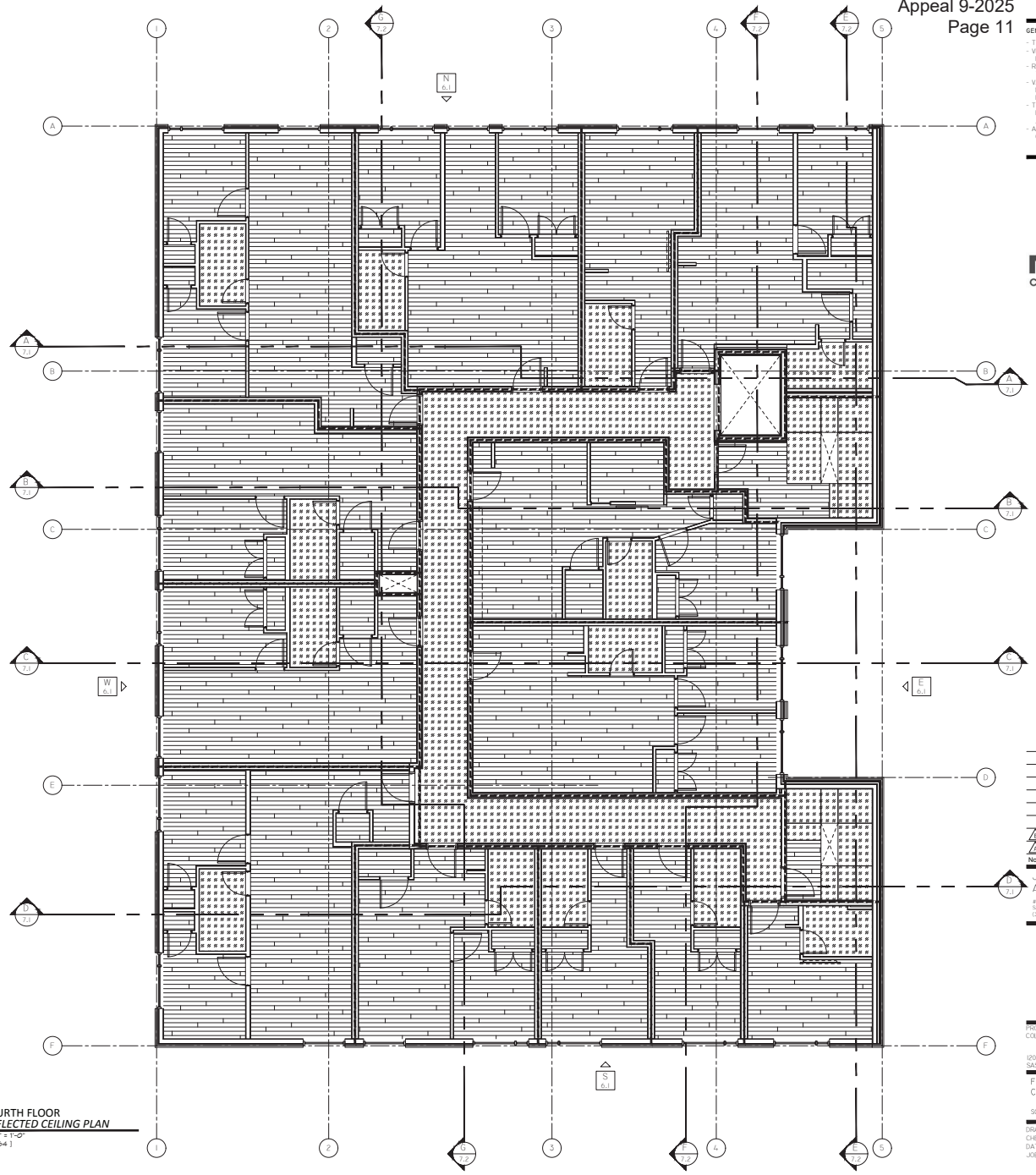
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 **THIRD FLOOR REFLECTED CEILING PLAN**
 2/16/24 1:10"
 [1:1/64"]

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 S4N 1Y3-6A27

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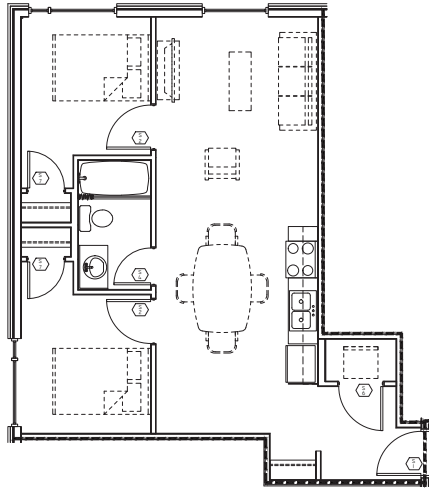
PROPOSED
COLLEGE DRIVE APARTMENTS
 1202 COLLEGE DRIVE
 SASKATCHEWAN, SK
**FOURTH FLOOR REFLECTED
CEILING PLAN**

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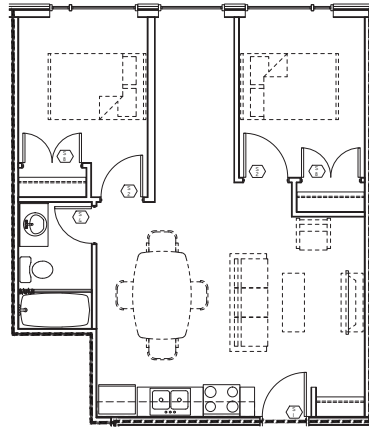
**FOURTH FLOOR
REFLECTED CEILING PLAN**
 3/16" = 1'-0"
 [1:64]



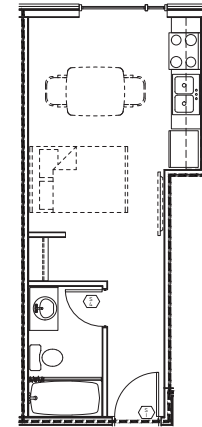
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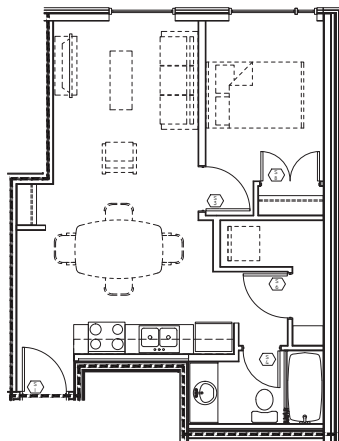
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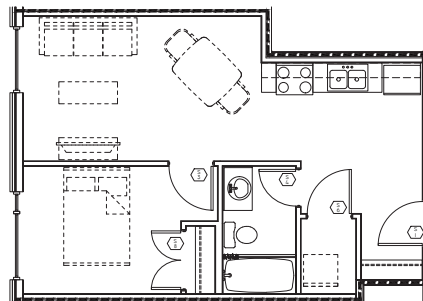
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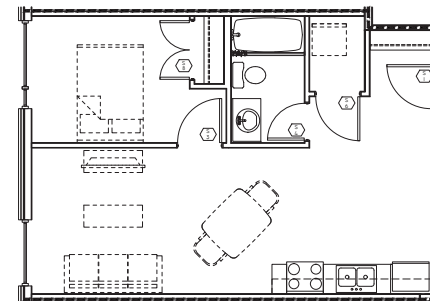
SUITE TYPE C
 1/4" = 1'-0" SUITE AREA = 510 SFT



SUITE TYPE D
 1/4" = 1'-0" SUITE AREA = 556 SFT



SUITE TYPE E
 1/4" = 1'-0" SUITE AREA = 527 SFT



SUITE TYPE F
 1/4" = 1'-0" SUITE AREA = 560 SFT

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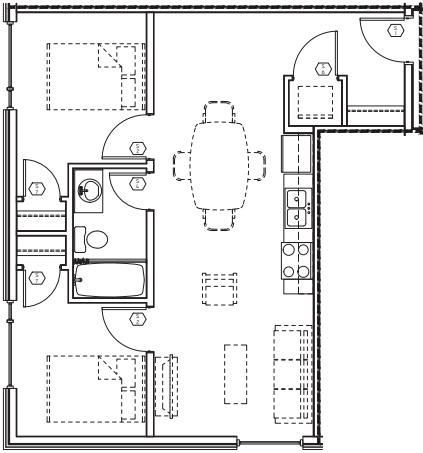
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 ARCHITECT
 #110-2002 COLLEGE AVE.
 SASKATOON, SASKATCHEWAN
 S4S 0A7
 (306) 933-8827

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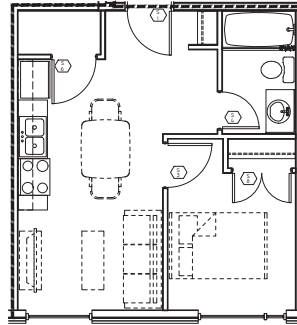
PROPOSED
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 1202 COLLEGE DRIVE
 SASKATCHEWAN, SK
 SUITE PLANS

SCALE: AS NOTED
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 DATE: AUG. 23, 2024 13 OF 17
 JOB NO.: 2024-17

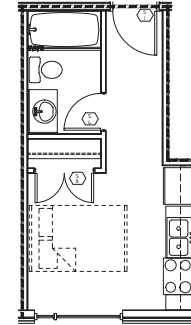
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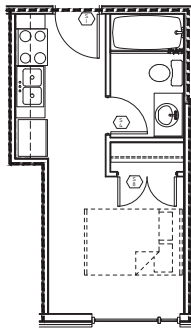
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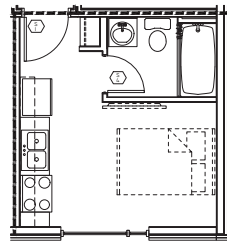
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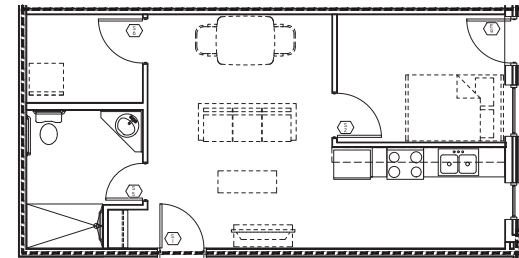
SUITE TYPE J
 1/4" = 1'-0" SUITE AREA = 240 SQFT



SUITE TYPE K
 1/4" = 1'-0" SUITE AREA = 240 SQFT



SUITE TYPE L
 1/4" = 1'-0" SUITE AREA = 236 SQFT



SUITE TYPE M
 1/4" = 1'-0" SUITE AREA = 569 SQFT

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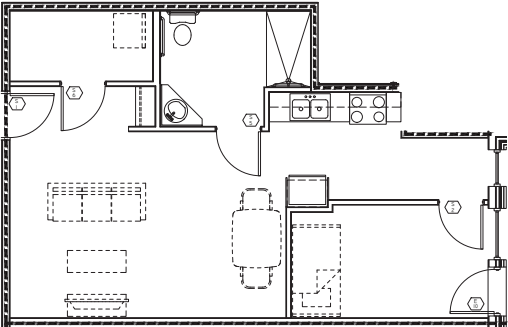
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 ARCHITECT
 #10-2002 GIBEC AVE.
 SASKATOON, SASKATCHEWAN
 (306) 333-8827

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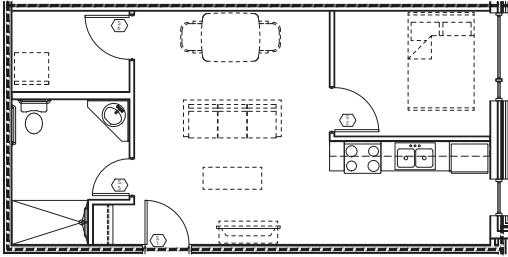
PROPOSED
 COLLEGE DRIVE APARTMENTS
 1202 COLLEGE DRIVE
 SASKATCHEWAN, SK
 SUITE PLANS

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 DATE: AUG. 23, 2024 14 OF 14
 JOB NO.: 2024-17

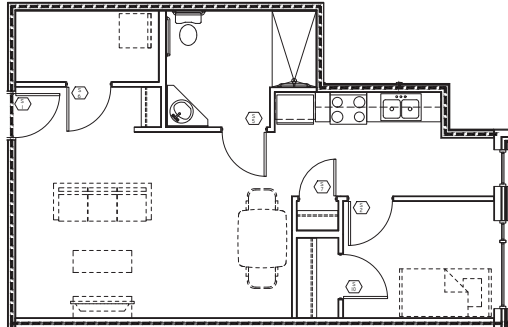
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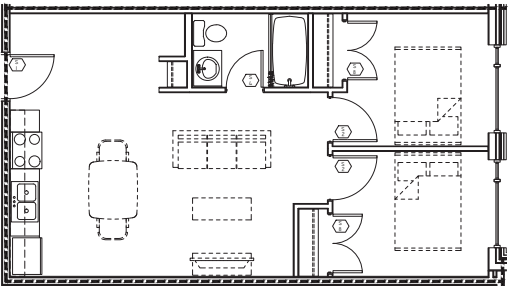
SUITE TYPE N
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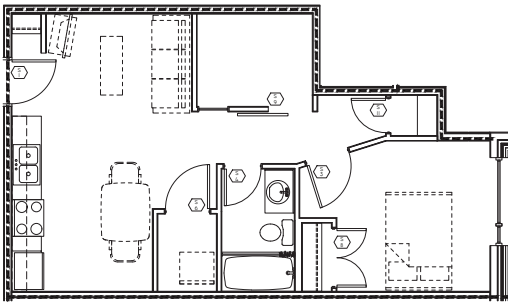
SUITE TYPE P
1/4" = 1'-0" SUITE AREA = 589 SQFT



SUITE TYPE Q
1/4" = 1'-0" SUITE AREA = 633 SQFT



SUITE TYPE R
1/4" = 1'-0" SUITE AREA = 638 SQFT



SUITE TYPE S
1/4" = 1'-0" SUITE AREA = 576 SQFT

| No. | REVISION | DATE |
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| MEASURED | 10/17/2024 |
| MEASURED | 10/17/2024 |
| No. REVISION DATE | |
| JAMES ZIMMER ARCHITECT #100-2003 COLLEGE AVE. SASKATOON, SASKATCHEWAN (306) 933-8827 | |

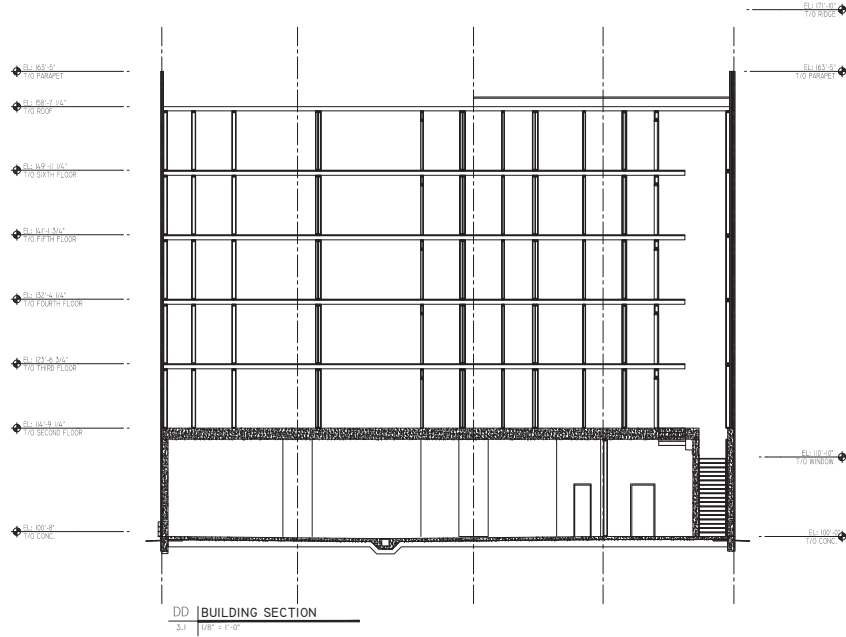
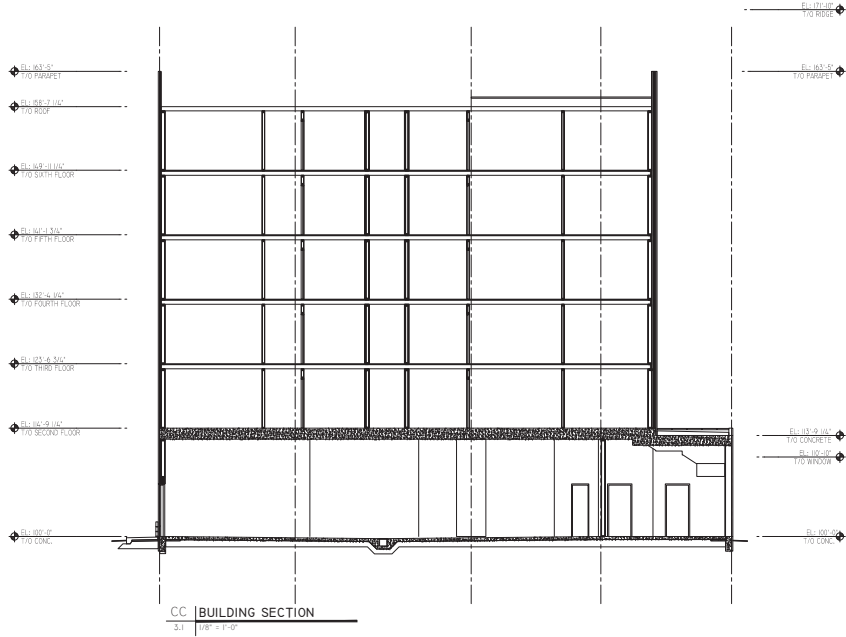
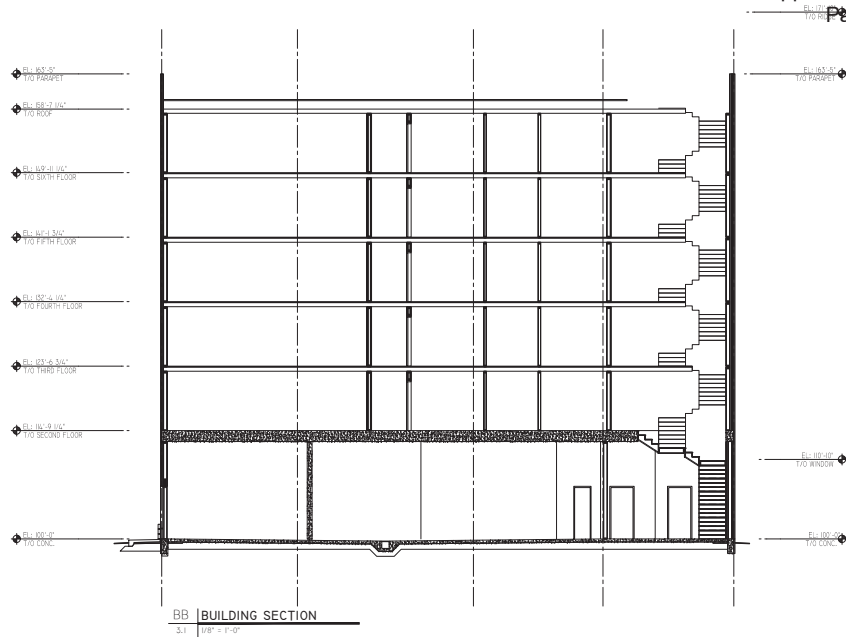
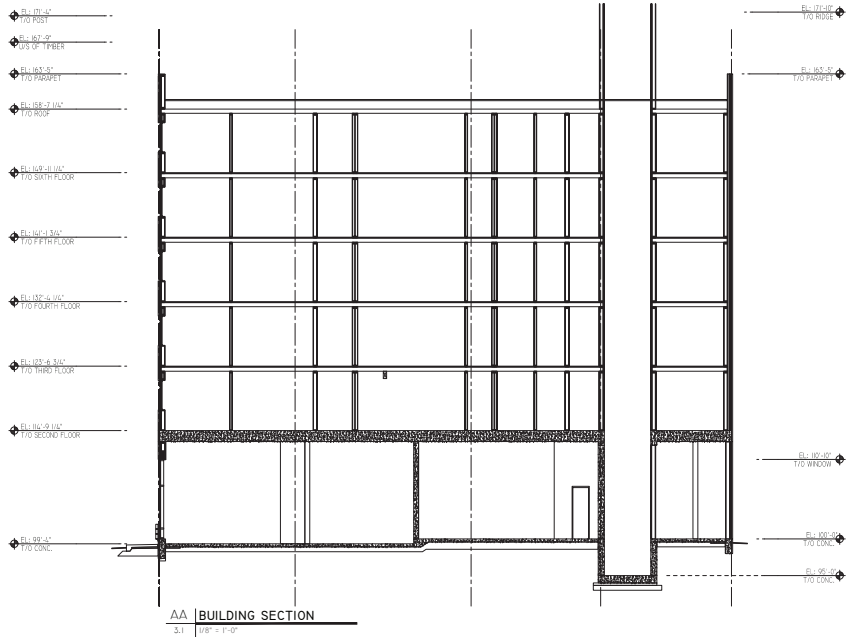
NOT FOR CONSTRUCTION

PROPOSED
COLLEGE DRIVE APARTMENTS
1202 COLLEGE DRIVE
SASKATCHEWAN, SK
SUITE PLANS
SCALE: AS NOTED
DRAWN: EDH SHEET:
CHECKED: - AUG. 23, 2024 A 5.3
JOB NO.: 2024-17 15 OF 14002

GENERAL NOTES
 - THIS DRAWING MUST NOT BE SCALED
 - VERIFY ALL DIMENSIONS AND DATUMS
 - PRIOR TO COMMENCEMENT OF WORK
 - REPORT ALL ERRORS AND OMISSIONS TO
 THE CONSULTANT IMMEDIATELY
 - VARIATIONS AND MODIFICATIONS ARE
 NOT ALLOWED WITHOUT THE WRITTEN
 PERMISSION FROM THE CONSULTANT
 - THIS DRAWING IS THE EXCLUSIVE
 PROPERTY OF JAMES G. ZIMMER
 ARCHITECT
 - ANY REPRODUCTIONS WITHOUT WRITTEN
 CONSENT IS STRICTLY PROHIBITED



NORTH
CONSTRUCTION LTD



| No. | REVISION | DATE |
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JAMES ZIMMER
 ARCHITECT
 #10-2002 GIBBY AVE.
 SASKATOON, SASKATCHEWAN
 S4S 1G5-2G27

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CONSTRUCTION

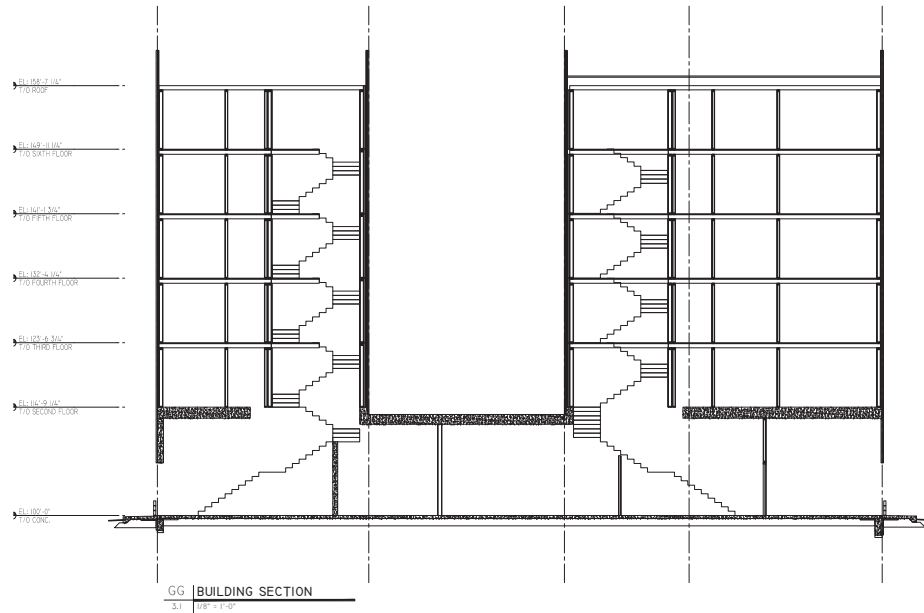
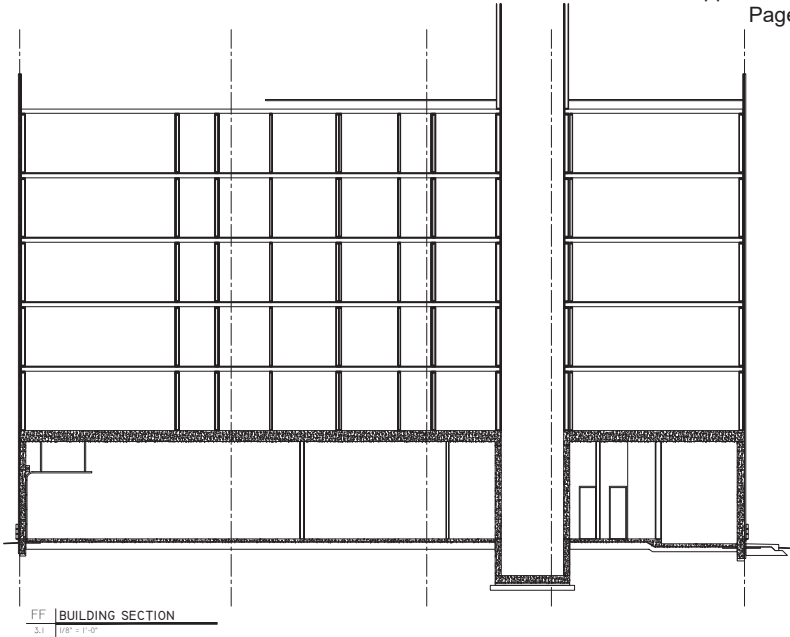
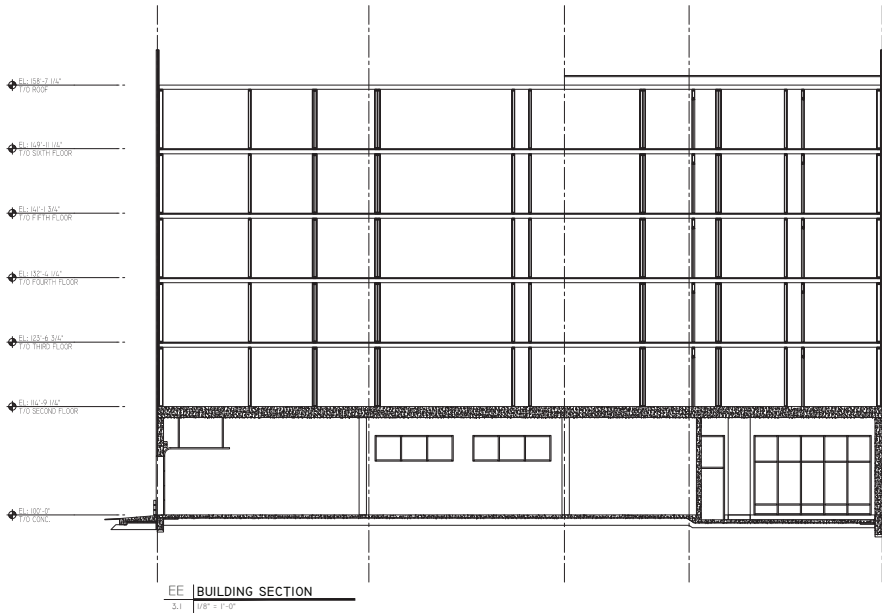
PROPOSED
 COLLEGE DRIVE APARTMENTS
 1202 COLLEGE DRIVE
 SASKATCHEWAN, SK
 BUILDING SECTIONS

SCALE: AS NOTED
 DRAWN: LGH SHEET:
 CHECKED: - A 7.1
 DATE: AUG. 23, 2024
 JOB NO.: 2024-17

GENERAL NOTES
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 - PRIOR TO COMMENCEMENT OF WORK
 - REPORT ALL ERRORS AND OMISSIONS TO
 - THE CONSULTANT IMMEDIATELY
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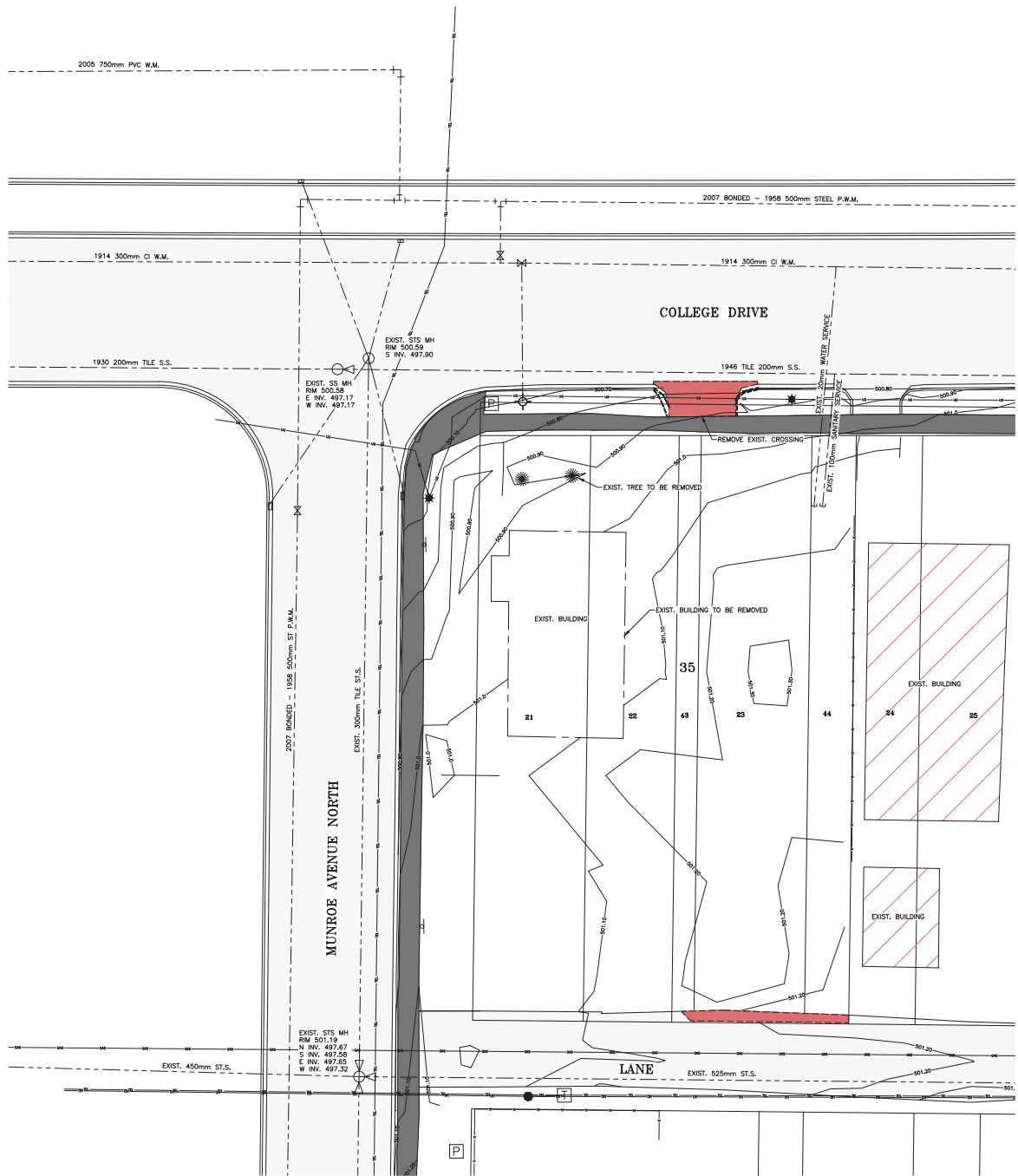
| No. | REVISION | DATE |
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JAMES ZIMMER
ARCHITECT
 #10-2001 GIBEC AVE.
SASKATOON, SASKATCHEWAN
S4S 1G5-6B27

NOT FOR
CONSTRUCTION

PROPOSED
COLLEGE DRIVE APARTMENTS
 1202 COLLEGE DRIVE
SASKATCHEWAN, SK
 BUILDING SECTIONS

SCALE: AS NOTED
 DRAWN: EDH SHEET:
 CHECKED: - A 7.2
 DATE: AUG. 23, 2024
 JOB NO.: 2024-17
 10-2001-2024-17-16-11-18-18



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-NOT ALL UTILITIES MAY BE SHOWN. ALL UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR TO CONFIRM LOCATIONS & ELEVATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION
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CONSULTING ENGINEERS
1231 - 8th STREET EAST
SASKATOON, SK S7H 0S5
TEL: (306) 343-7280 | www.cwce.ca

PRELIMINARY
NOT FOR CONSTRUCTION

- LEGEND:**
- EXIST. MANHOLE
 - EXIST. CATCH BASIN IN CURB
 - EXIST. FLOW DIRECTION
 - ◇ EXIST. HYDRANT
 - ⊕ EXIST. VALVE
 - ⊥ EXIST. TEE
 - ⌒ EXIST. BEND
 - EXIST. POWER POLE
 - ⊙ EXIST. LIGHT STANDARD
 - ⊞ EXIST. POWER PEDESTAL
 - ⊞ EXIST. PHONE PEDESTAL
 - ⊞ EXIST. SIGN
 - ⊙ EXIST. TREE
 - EXIST. VERTICAL CURB & GUTTER
 - EXIST. FENCE
 - EXIST. GAS LINE
 - EXIST. PHONE LINE
 - EXIST. OVERHEAD POWER LINE
 - EXIST. UNDERGROUND POWER LINE
 - EXIST. GROUND CONTOUR
 - VERTICAL CURB & GUTTER REMOVAL
 - EXIST. CONCRETE
 - DESIGN CONCRETE
 - EXIST. ASPHALT
 - ASPHALT REMOVAL
 - EXIST. BUILDING

SCALE VERIFICATION
WHEN DRAWING IS PLOTTED FULL SIZE THIS LINE IS 60mm IN LENGTH.

| DATE | REVISION |
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25/01/07 ISSUED FOR REVIEW
OWNER/CLIENT
14 NORTH CONSTRUCTION

LOCATION
SASKATOON, SK
PROJECT
1202 COLLEGE DRIVE

SHEET TITLE
EXIST. CONDITIONS & REMOVALS PLAN

| SCALE | DESIGNED |
|-----------------------------|-----------------|
| 1:150 | RJR |
| DRAWN DFA | CHECKED |
| DATE 24/12/04 | SHEET 1 of 3 |
| DRAWING NUMBER 799-00901 | |



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1231 - 8th STREET EAST
SASKATOON, SK S7H 0S5
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PRELIMINARY
NOT FOR CONSTRUCTION

LEGEND:

- DRAINAGE DIRECTION & GRADE
- CATCH BASIN RIM ELEVATION
- PERIMETER GRADE ELEVATION
- EXIST. ELEVATION
- CATCH BASIN / CATCH BASIN MAN-HOLE
- EXIST. CATCH BASIN IN CURB
- EXIST. POWER POLE
- EXIST. LIGHT STANDARD
- EXIST. POWER PEDESTAL
- EXIST. PHONE PEDESTAL
- EXIST. SIGN
- EXIST. TREE
- EXIST. VERTICAL CURB & GUTTER
- DESIGN VERTICAL CURB & GUTTER
- BARRIER CURB
- EXIST. FENCE
- EXIST. GAS LINE
- EXIST. PHONE LINE
- EXIST. OVERHEAD POWER LINE
- EXIST. UNDERGROUND POWER LINE
- EXIST. GROUND CONTOUR
- EXIST. ASPHALT
- DESIGN CONCRETE
- EXIST. CONCRETE
- EXIST. BUILDING
- PONDING AREA

SCALE VERIFICATION

WHEN DRAWING IS PLOTTED FULL
SIZE THIS LINE IS 60mm IN LENGTH.

| DATE | REVISION |
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25/01/07 ISSUED FOR REVIEW

OWNER/CLIENT

**14 NORTH
CONSTRUCTION**

LOCATION

SASKATOON, SK

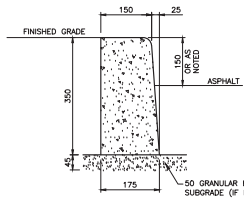
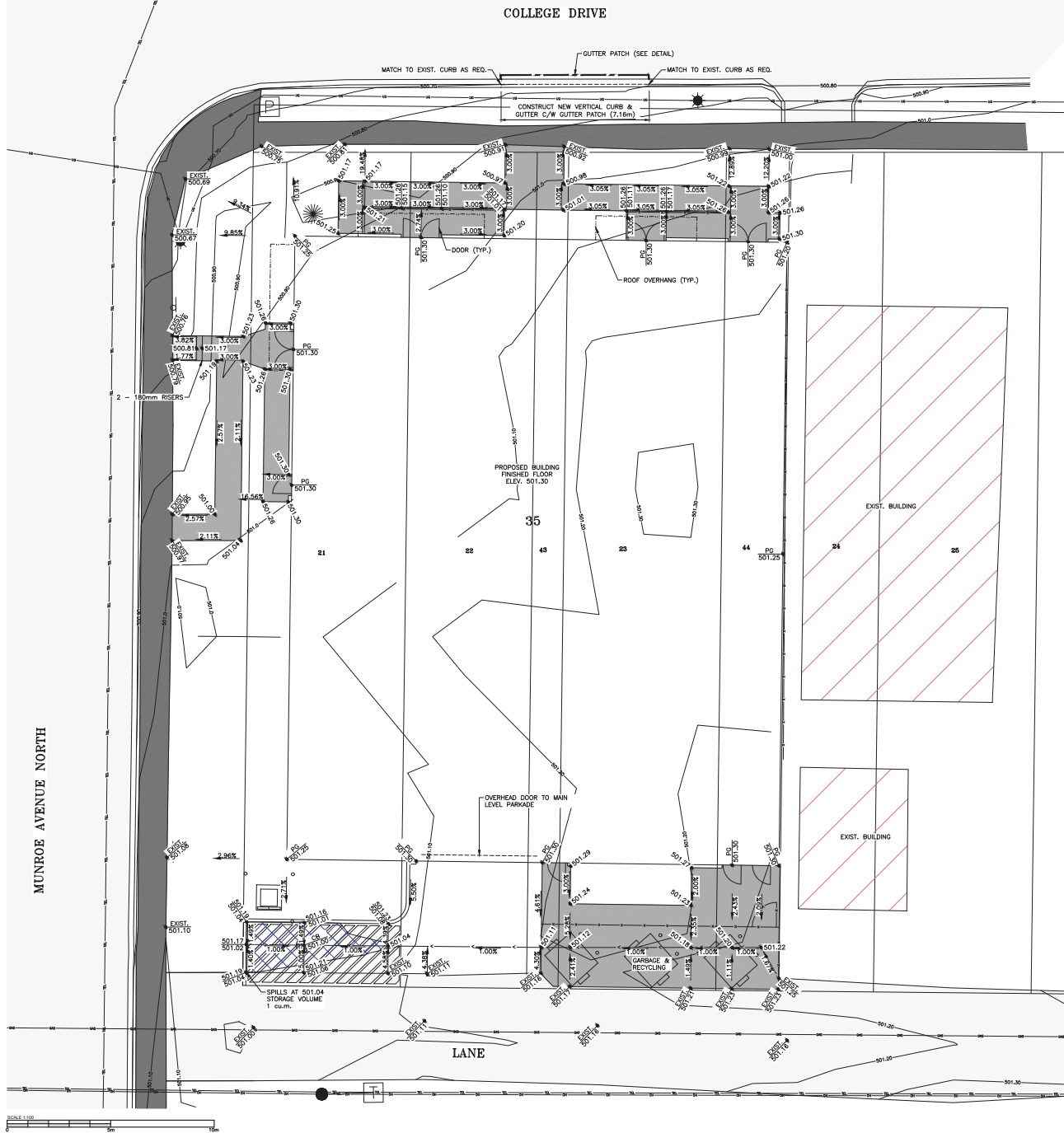
PROJECT

1202 COLLEGE DRIVE

SHEET TITLE

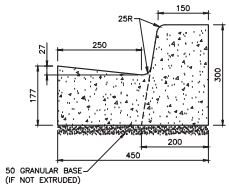
GRADING PLAN

| SCALE | AS SHOWN | DESIGNED | RJR |
|----------------|-----------|----------|--------|
| DRAWN | DFA | CHECKED | |
| DATE | 24/12/04 | SHEET | 2 of 3 |
| DRAWING NUMBER | 799-00902 | | |



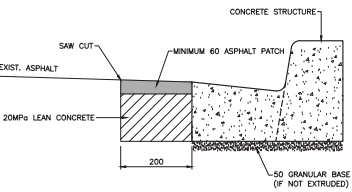
BARRIER CURB DETAIL

SCALE: NTS



VERTICAL CURB & GUTTER DETAIL

SCALE: NTS



GUTTER PATCH DETAIL

SCALE: NTS

| SITE DESIGN C FACTOR | | |
|----------------------|-------------|--------|
| TYPE | AREA (sq.m) | 2 YR C |
| ASPHALT | 65 | 0.95 |
| CONCRETE | 122 | 0.95 |
| LANDSCAPING | 143 | 0.10 |
| BUILDING | 716 | 0.95 |
| TOTAL | 1046 | 0.83 |

STORM WATER RUNOFF STORAGE CALCULATIONS

NOTE:
STORAGE CALCULATIONS BASED ON OCS DQSM ON-SITE STORAGE REQUIREMENT.

Cd = 0.30 CITY OF SASKATOON DESIGN C FACTOR
Cm = 0.83 SITE DESIGN C FACTOR
A = 869-(200Cd)
Rn = 13-(1000Cd)

REQUIRED STORAGE

VOLUME (cu.m/ha) = A*(Cp-Cd)+B*(Cp-Cd)^2

VOLUME (cu.m) = 37

SURFACE STORAGE: 1 cu.m

PIPE STORAGE: 1 cu.m

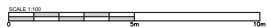
MANHOLE STORAGE: 3 cu.m

ROOF STORAGE: 716m² x 45mm = 32 cu.m

TOTAL STORAGE PROVIDED: 37 cu.m

NOTES:

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1231 - 8th STREET EAST
SASKATOON, SK S7H 0S5
TEL: (306) 343-7280 | www.cwce.ca

PRELIMINARY
NOT FOR CONSTRUCTION

LEGEND:

- MANHOLE
- CATCH BASIN / CATCH BASIN MANHOLE
- EXIST. CATCH BASIN IN CURB
- FLOW DIRECTION
- EXIST. HYDRANT
- EXIST. VALVE
- DESIGN VALVE
- BEND
- TEE
- EXIST. POWER POLE
- EXIST. LIGHT STANDARD
- EXIST. POWER PEDESTAL
- EXIST. PHONE PEDESTAL
- EXIST. SIGN
- EXIST. TREE
- EXIST. VERTICAL CURB & GUTTER
- DESIGN VERTICAL CURB & GUTTER
- BARRIER CURB
- FENCE
- EXIST. GAS LINE
- EXIST. PHONE LINE
- EXIST. OVERHEAD POWER LINE
- EXIST. UNDERGROUND POWER LINE
- EXIST. CONCRETE
- DESIGN CONCRETE
- EXIST. BUILDING

SCALE VERIFICATION

WHEN DRAWING IS PLOTTED FULL SIZE THIS LINE IS 60mm IN LENGTH.

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25/01/07 ISSUED FOR REVIEW

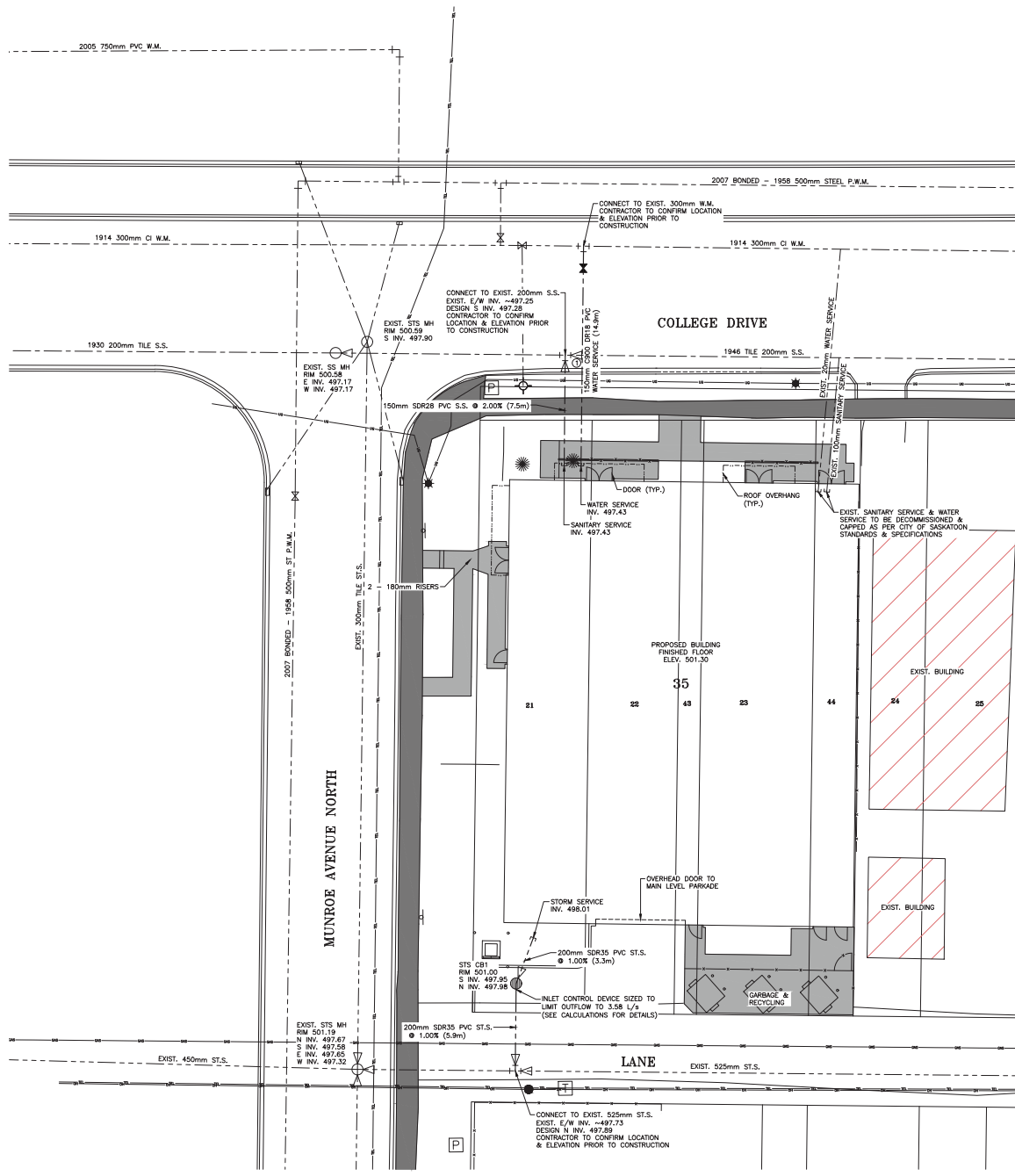
OWNER/CLIENT
14 NORTH CONSTRUCTION

LOCATION
SASKATOON, SK

PROJECT
1202 COLLEGE DRIVE

SHEET TITLE
SERVICING PLAN

| SCALE | DESIGNED |
|----------------|-----------|
| 1:150 | |
| DRAWN | CHECKED |
| DFA | |
| DATE | SHEET |
| 24/12/04 | 3 of 3 |
| DRAWING NUMBER | 799-00903 |



PIPE CROSSING DATA:
 ① EXIST. 200mm S.S. INV. -497.26
 150mm W.M. INV. 497.43

| STORM SEWER ID | BARREL DIAMETER |
|----------------|-----------------|
| STS CB1 | 1200mm |

ALLOWABLE DISCHARGE
 NOTE:
 STORAGE CALCULATIONS BASED ON CDS D05M
 MAXIMUM ALLOWABLE DISCHARGE RATE:
 $Cd = 0.3$ CITY OF SASKATOON DESIGN C FACTOR
 $FLOW(L/s/m^2) = 114 \cdot Cd$
 $FLOW(L/s) = 3.58$
 ORIFICE SIZE CALCULATION
 $Q = 0.00358$ ALLOWABLE RELEASE RATE (L/s/m²)
 $K = 0.61$ CONSTANT
 $A = 0.0008$ AREA OF ORIFICE (sq.m)
 $g = 9.81$ ACCELERATION OF GRAVITY (m/s²)
 $h = 3.09$ HEAD (m)
 $Q = KA(2gh)^{0.5}$
 $A = 0.0008$ sq.m
 DIAMETER = 0.031m

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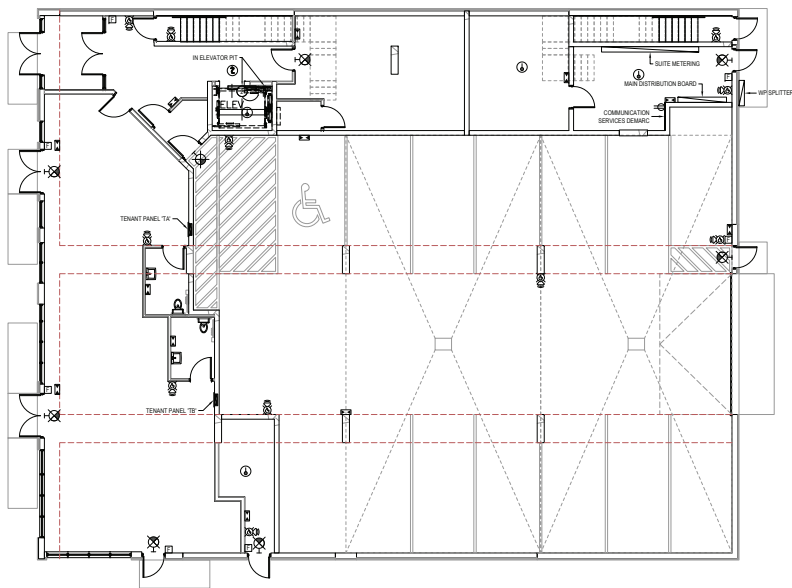
PALEY AND ASSOCIATES



CONSULTING ELECTRICAL ENGINEERS
3 - 2217 HANDELMAN COURT SASKATOON, SK S7L 6A8 OFFICE PALE.858-9444

ELECTRICAL SYMBOLS LEGEND

- | SYMBOL | DESCRIPTION | ABBREVIATIONS |
|--------|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| | LINEAR SOURCE LIGHT FIXTURE - CEILING MOUNT | ABF - ABOVE FINISHED FLOOR |
| | NO-SHORTED-TO-MOST LIGHT | AFS - ABOVE FINISHED GRADE |
| | LINEAR SOURCE LIGHT FIXTURE - WALL MOUNT | ATS - AUTOMATIC TRANSFER SWITCH |
| | POINT SOURCE LIGHT FIXTURE - SURFACE/WALL MOUNT | BND - BOND |
| | SWITCH 3-KV/3W D-CIRCUIT 4-POLE/2-TIMELOCK | CLD - CEILING MOUNTED |
| | PILOT LIGHT SWITCH | CLW - COMPLETE WITH CHIMNER |
| | LIGHTING CONTROL WALL SWITCH OCCUPANCY SENSOR 0-DIMMER | DMS - DIGITAL METERING SYSTEM (CUSTOMER OWNED) |
| | LIGHTING CONTROL CEILING OCCUPANCY SENSOR 0-DIMMER | DS - DISCONNECT SWITCH |
| | LIGHTING CONTROL INFRARED TECHNOLOGY | E - EXITING TO REMAIN |
| | LIGHTING CONTROL INFRARED TECHNOLOGY WITH DUAL TECHNOLOGY | EC - EMPTY CIRCUIT ON FULL STRING |
| | LIGHTING CONTROL INFRARED TECHNOLOGY WITH PHOTOCELL | EM - EMERGENCY |
| | LIGHTING CONTROL INFRARED TECHNOLOGY WITH PHOTOCELL AND INFRARED TECHNOLOGY | EL - EXITING AT RELOCATED POSITION |
| | LIGHTING CONTROL INFRARED TECHNOLOGY WITH PHOTOCELL AND INFRARED TECHNOLOGY WITH DUAL TECHNOLOGY | FF - FIRE FIGHT |
| | LIGHTING CONTROL INFRARED TECHNOLOGY WITH PHOTOCELL AND INFRARED TECHNOLOGY WITH DUAL TECHNOLOGY AND INFRARED TECHNOLOGY | FACP - FIRE ALARM CONTROL PANEL |
| | PHOTO ELECTRIC CELL | FR - FIRE RAMP |
| | DUPLEXER RECEPTACLE | GRD - GROUND |
| | PUL - INTELLIGENT PARKING LOT CONTROL | LD - LIFE SAFETY |
| | MICROWAVE RECEPTACLE | LD - LIFE SAFETY |
| | GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE | LD - LIFE SAFETY |
| | SPLIT WIRE RECEPTACLE | LD - LIFE SAFETY |
| | RECEPTACLE MODIFIERS (REFERS TO ALL RECEPTACLE TYPES WHERE SHOWN) | LD - LIFE SAFETY |
| | 200V RECEPTACLE | LD - LIFE SAFETY |
| | JUNCTION BOX / DIRECT CONNECTION | LD - LIFE SAFETY |
| | 208 VOLT JUNCTION BOX / DIRECT CONNECTION | LD - LIFE SAFETY |
| | NORMAL POWER PANEL AS INDICATED | LD - LIFE SAFETY |
| | MOTOR | LD - LIFE SAFETY |
| | THREE PHASE MOTOR | LD - LIFE SAFETY |
| | DISCONNECT SWITCH | LD - LIFE SAFETY |
| | THERMAL SWITCH | LD - LIFE SAFETY |
| | MOTOR CONTROL PUSH BUTTON STATION | LD - LIFE SAFETY |
| | HEATER B-BASIS BOARD F-FORCE FLOW | LD - LIFE SAFETY |
| | THERMOSTAT | LD - LIFE SAFETY |
| | SOLENOID VALVE | LD - LIFE SAFETY |
| | SMOKE DETECTOR | LD - LIFE SAFETY |
| | DUCT TYPE SMOKE DETECTOR | LD - LIFE SAFETY |
| | SMOKE ALARM | LD - LIFE SAFETY |
| | HEAT DETECTOR | LD - LIFE SAFETY |
| | COMBINATION SMOKE/CARBON MONOXIDE ALARM | LD - LIFE SAFETY |
| | ELECTRIC WATER GONG | LD - LIFE SAFETY |
| | FIRE ALARM PULL STATION | LD - LIFE SAFETY |
| | FIRE ALARM HORN/STROBE | LD - LIFE SAFETY |
| | FIRE ALARM HORN CW SILENCE BUTTON | LD - LIFE SAFETY |
| | FIRE ALARM MONITOR (DRY CONTACT) MODULE | LD - LIFE SAFETY |
| | FIRE ALARM ISOLATION MODULE | LD - LIFE SAFETY |
| | COMBINATION SMOKE / FIRE DAMPER CONNECTION | LD - LIFE SAFETY |
| | EMERGENCY BATTERY UNIT WITH NO LIGHTING HEADS OR 2 HEADS | LD - LIFE SAFETY |
| | REMOTE EMERGENCY LIGHTS, SINGLE & DOUBLE | LD - LIFE SAFETY |
| | COMBINATION EXIT SIGN EMERGENCY BATTERY UNIT WITH HEADS | LD - LIFE SAFETY |
| | EXIT LIGHT - SURFACE/WALL MOUNT (SHADING INDICATES LIT FACE) | LD - LIFE SAFETY |
| | SPRINKLER TAMPER SWITCH | LD - LIFE SAFETY |
| | SPRINKLER FLOW SWITCH | LD - LIFE SAFETY |
| | COMBINATION CAT5 COAX OUTLET | LD - LIFE SAFETY |
| | BARRIER FREE DOOR PUSHBUTTON | LD - LIFE SAFETY |
| | DOOR ACCESS CARD READER | LD - LIFE SAFETY |
| | DOOR ACCESS DEVICE - ELECTRIC STRIKE | LD - LIFE SAFETY |
| | DOOR ACCESS DEVICE - DOOR CONTACT | LD - LIFE SAFETY |



PARKADE / SITE PLAN
12/17/18

| REVISIONS | | |
|-----------|-------------|------|
| REV. | DESCRIPTION | DATE |
| | | |
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PROJECT:
**PROPOSED SIX STOREY
APARTMENT WITH RETAIL**

1908 COLLEGE DRIVE
SASKATOON, SASKATCHEWAN

CONTENTS:
**PARKADE / SITE PLAN
ELECTRICAL LAYOUT**

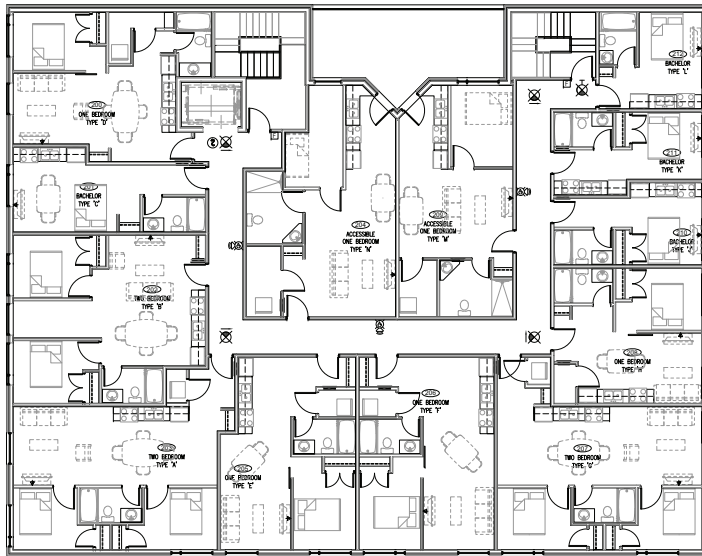
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CHECKED: LMP
DATE: DEC 09/24
FILE: 24-016

SHEET NO:
E.11

PALEY AND ASSOCIATES

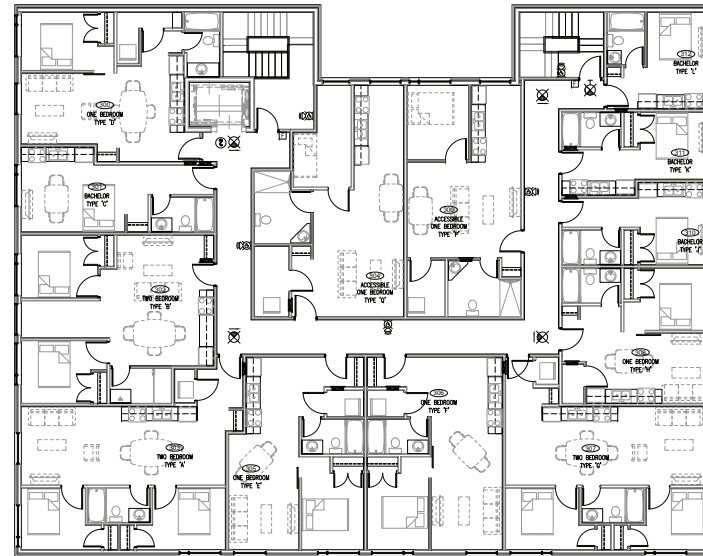


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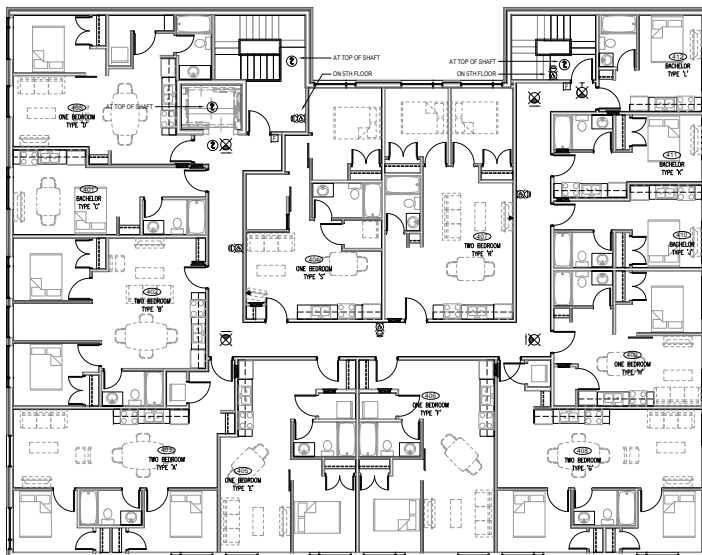


SECOND FLOOR PLAN
E2.1/1100

COMBO COLOURED ALARMS THIS FLOOR ONLY OTHER FLOORS
SMOKE ALARM ONLY AT THESE LOCATIONS.



THIRD FLOOR PLAN
E2.1/1100



TYPICAL PLAN (4TH, 5TH, 6TH)
E2.1/1100

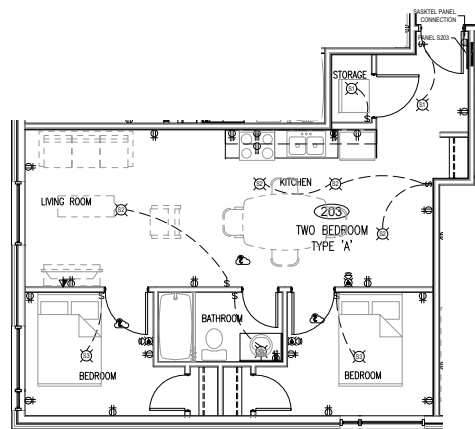
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| REV# | DESCRIPTION | DATE |
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PROJECT:
**PROPOSED SIX STOREY
APARTMENT WITH RETAIL**
1202 COLLEGE DRIVE
SASKATOON, SASKATCHEWAN
CONTENTS:
**OVERALL FLOOR PLANS
ELECTRICAL LAYOUT**

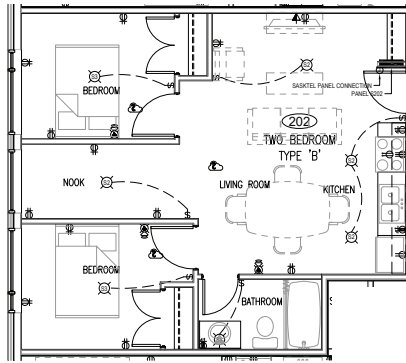
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FILE: 94-016

SHEET NO:
E2.1

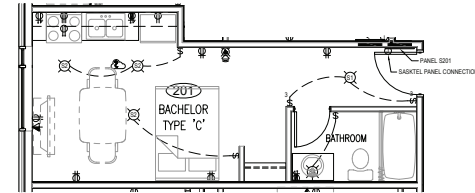
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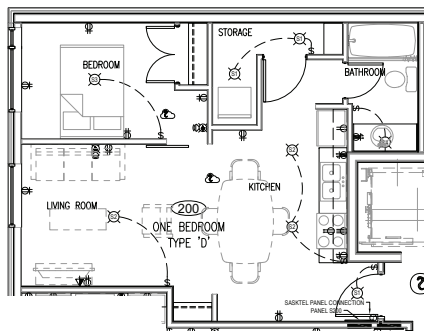
SUITE A PLAN
E3.1 150



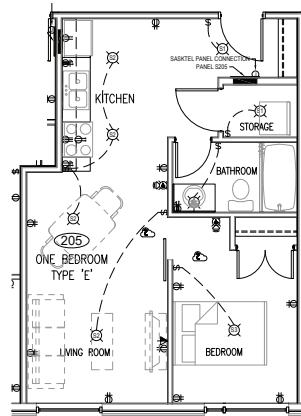
SUITE B PLAN
E3.1 150



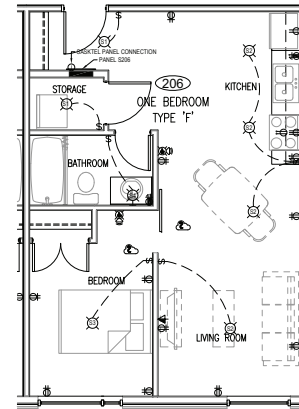
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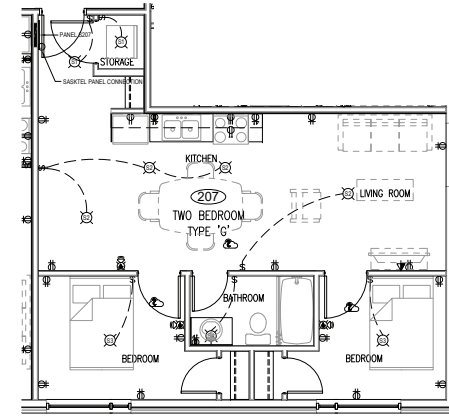
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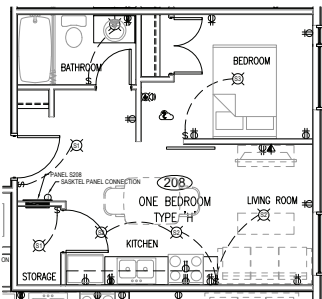
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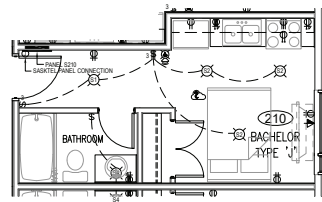
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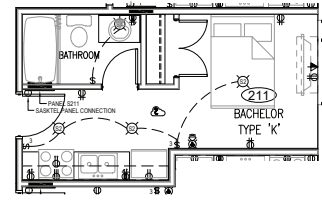
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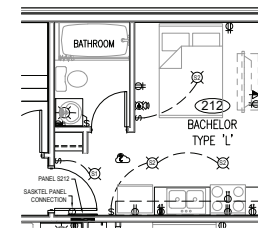
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E3.1 150



SUITE I PLAN
E3.1 150



SUITE K PLAN
E3.1 150



SUITE L PLAN
E3.1 150

| REVISIONS | | |
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| REV# | DESCRIPTION | DATE |
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PROJECT: PROPOSED SIX STOREY APARTMENT WITH RETAIL
1902 COLLEGE DRIVE SASKATOON, SASKATCHEWAN
CONTENTS: SUITE FLOOR PLANS ELECTRICAL LAYOUT

DRAWN: ARZ
CHECKED: LMP
DATE: 05C 03/24
FILE: 94-016

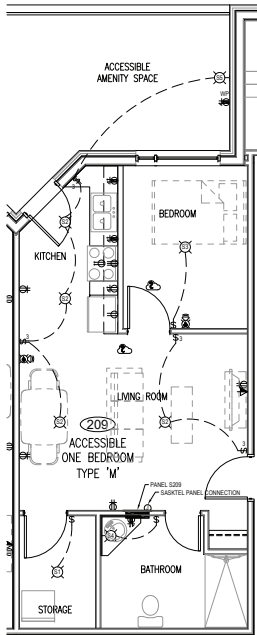
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ASPI 15 000.00011.4 (24-03)

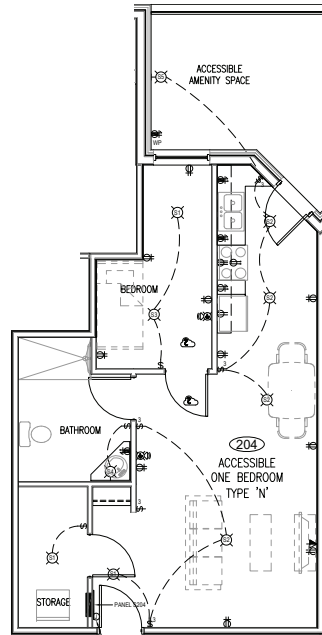
PALEY AND ASSOCIATES



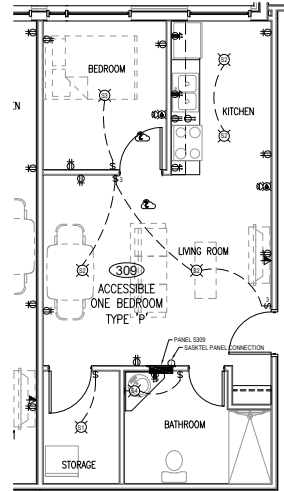
CONSULTING ELECTRICAL ENGINEERS
3 - 2217 HANBELMAN COURT 306.964.9544
SASKATOON, SK S7N 6A8 OFFICE PALE@PA.AS CA



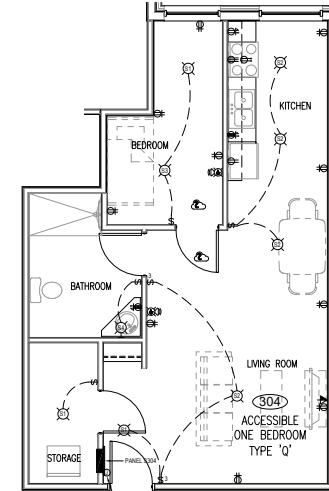
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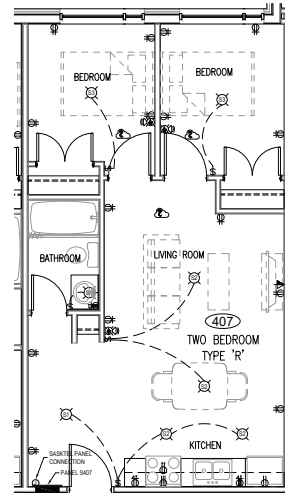
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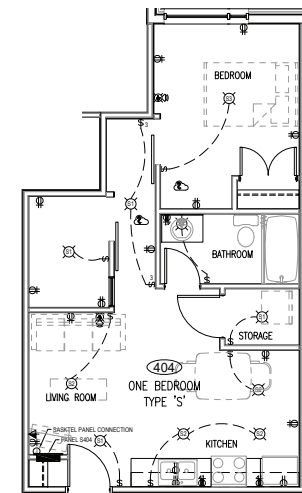
150 SUITE P PLAN



150 SUITE Q PLAN



150 SUITE R PLAN



150 SUITE S PLAN

| REVISIONS | | |
|-----------|-------------|------|
| REV# | DESCRIPTION | DATE |
| | | |
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PROJECT:
**PROPOSED SIX STOREY
APARTMENT WITH RETAIL**

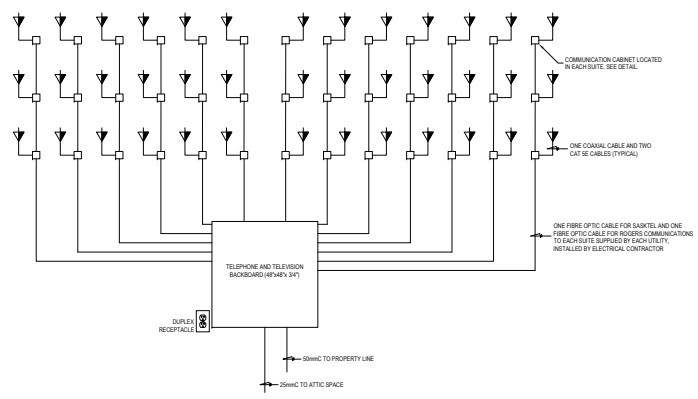
1202 COLLEGE DRIVE
SASKATOON, SASKATCHEWAN

CONTENTS:
**SUITE FLOOR PLANS
ELECTRICAL LAYOUT**

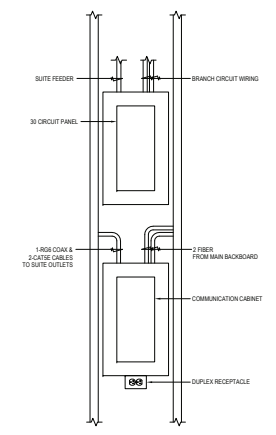
DRAWN: ARZ
CHECKED: LNP
DATE: DEC 03/24
FILE: 24-016

SHEET NO:
E3.2

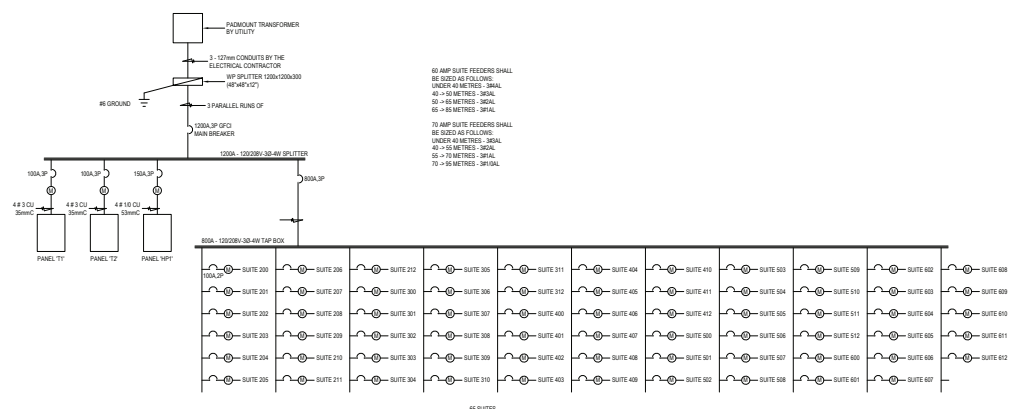
ASHT 15 000.00114.4 (24-03)



17 CABLE TELEVISION CONDUIT SYSTEM SCHEMATIC
1/4" = 1' NO SCALE



18 ELECTRICAL & COMMUNICATION CABINET DETAIL
1/4" = 1' NO SCALE



19 POWER DISTRIBUTION SINGLE LINE DIAGRAM
1/4" = 1' NO SCALE

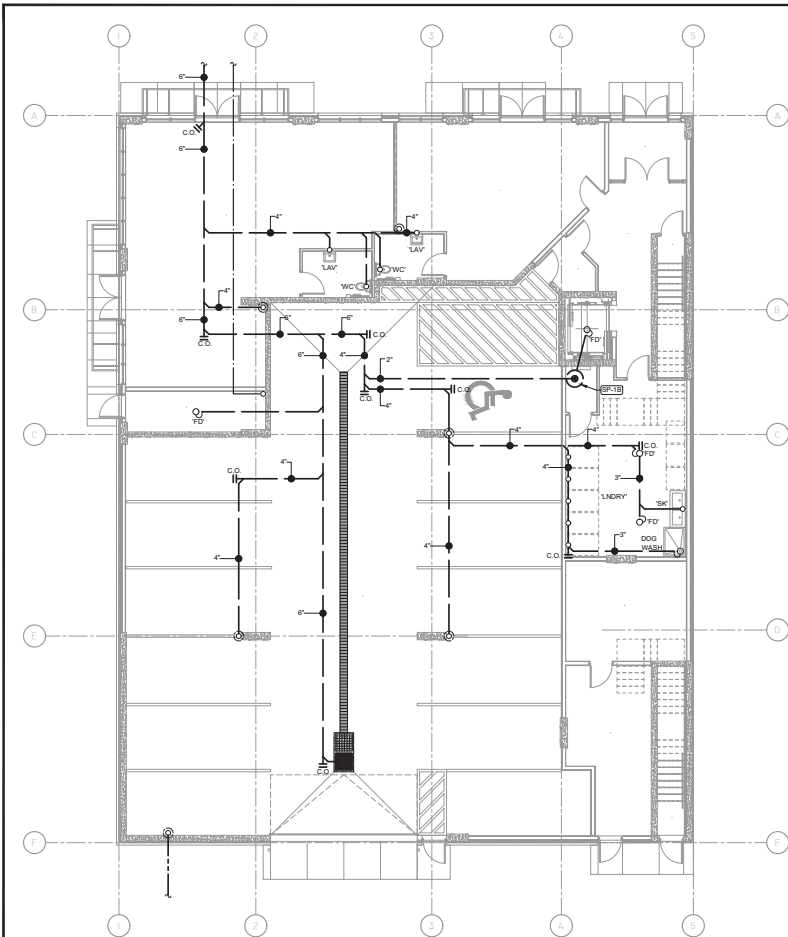
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|-----------|-------------|------|
| REV# | DESCRIPTION | DATE |
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PROJECT:
PROPOSED SIX STOREY APARTMENT WITH RETAIL
1202 COLLEGE DRIVE
SASKATOON, SASKATCHEWAN
CONTENTS:
ELECTRICAL SCHEMATICS

DRAWN: ARZ
CHECKED: LMP
DATE: DEC 03/24
FILE: 24-016

SHEET NO:
E4.1

ARCH: E. 00A.05.14.4 (24-03)



FOUNDATION PLAN PLUMBING
M1.1
SCALE: 1/8" = 1'-0"

LEGAL ADDRESS

1202 COLLEGE DRIVE, SASKATOON SK

BUILDING WATER LOAD SUMMARY

DOMESTIC WATER 200 GPM
SITE TOTAL WATER LOAD 200 GPM

SANITARY LOAD SUMMARY

8 STORY RESIDENTIAL BUILDING LOAD = 750 FLD
SITE TOTAL LOAD = 750 FLD - FPD @ 1% CONNECTION

| ITEM | DESCRIPTION | LOAD (MBH) |
|---------------------|------------------|------------|
| B-1A | BOILER | 2000 |
| B-1B | BOILER | 2000 |
| WH-1A | WATER HEATER | 300 |
| WH-1B | WATER HEATER | 300 |
| MUA-1 | MAKE UP AIR UNIT | 400 |
| DRYER | DRYER STACKED X2 | 380 |
| | FUTURE | 600 |
| TOTAL METER (S PSI) | | 6900 |

MECHANICAL CONTRACTOR INFORMATION
MINIMUM DISTANCE BETWEEN NATURAL GAS LINE & UNDERGROUND SERVICES = 6 FT. MECHANICAL CONTRACTOR SHALL, BEFORE BEGINNING INSTALLATION INSIDE THE BUILDING, CHECK THE LOCATION AND INVERT ELEVATIONS OF ALL SERVICE LINES INCLUDING SANITARY, STORM, WATER AND NATURAL GAS MAINS WITH LOCAL AUTHORITIES TO ENSURE THAT THESE SERVICES CAN BE INSTALLED AS SHOWN.

DRAWING LIST

| | |
|------|------------------------------------------------------|
| M1.1 | FOUNDATION PLAN PLUMBING |
| M1.2 | PARKADE PLAN PLUMBING (SANITARY/STORM) |
| M1.3 | SECOND & THIRD FLOOR PLAN PLUMBING (SANITARY/STORM) |
| M1.4 | FOURTH FLOOR PLAN PLUMBING (SANITARY/STORM) |
| M1.5 | FIFTH & SIXTH FLOOR PLAN PLUMBING (SANITARY/STORM) |
| M1.6 | ROOF PLAN PLUMBING (SANITARY/STORM) |
| M2.1 | PARKADE PLAN PLUMBING (DOMESTIC) |
| M2.2 | SECOND FLOOR PLAN PLUMBING (DOMESTIC) |
| M2.3 | THIRD FLOOR PLAN PLUMBING (DOMESTIC) |
| M2.4 | FOURTH, FIFTH & SIXTH FLOOR PLAN PLUMBING (DOMESTIC) |
| M2.5 | ROOF PLAN PLUMBING (DOMESTIC) |
| M3.1 | PARKADE PLAN HEATING |
| M3.2 | SECOND FLOOR PLAN HEATING |
| M3.3 | THIRD FLOOR PLAN HEATING |
| M3.4 | FOURTH & FIFTH FLOOR PLAN HEATING |
| M3.5 | SIXTH FLOOR PLAN HEATING |
| M3.6 | ROOF PLAN HEATING |
| M4.1 | PARKADE PLAN HVAC |
| M4.2 | SECOND FLOOR PLAN HVAC |
| M4.3 | THIRD FLOOR PLAN HVAC |
| M4.4 | FOURTH FLOOR PLAN HVAC |
| M4.5 | FIFTH FLOOR PLAN HVAC |
| M4.6 | SIXTH FLOOR PLAN HVAC |
| M5.1 | PARKADE PLAN FIRE PROTECTION |
| M5.2 | SECOND & THIRD FLOOR PLAN FIRE PROTECTION |
| M5.3 | FOURTH, FIFTH, & SIXTH FLOOR PLAN FIRE PROTECTION |
| M6.1 | MECHANICAL LEGENDS & DETAILS |
| M6.2 | MECHANICAL DETAILS COINTO |
| M6.3 | SANITARY & DOMESTIC WATER RISER SCHEMATICS |
| M6.4 | HEATING RISER SCHEMATICS |
| M6.5 | MECHANICAL SCHEDULE |
| M6.6 | MECHANICAL SPECIFICATIONS |

PLUMBING GENERAL NOTES

- 1 ALL LINES SHOWN SCHEMATICALLY AND ARE A GENERAL GUIDELINE. ANY MAJOR DEVIATION FROM WHAT IS SHOWN IS TO BE APPROVED BY PE ENGINEERING.
- 2 ALL SEWER LINES TO RUN BELOW FLOOR OR WITHIN WALL/CeILING SPACE UNLESS OTHERWISE NOTED.
- 3 ALL EQUIPMENT TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
- 4 ALL PIPING TO FIXTURES AND EQUIPMENT TO RUN CONCEALED WHERE POSSIBLE.
- 5 MECHANICAL CONTRACTOR TO RUN A BEAD OF SILICONE AROUND THE BASE OF NEW WATER CLOSETS AND TUBS.
- 6 CONTRACTOR TO SUPPLY AND INSTALL PLUMBING VENTS, TRAP SEAL PRIMERS, CLEANOUTS, AND ISOLATION VALVES AS PER CODE.
- 7 SOLDER AND FLUXES HAVING A LEAD CONTENT IN EXCESS OF 0.2% SHALL NOT BE USED.
- 8 PROVIDE FIRE STOPS AT ALL PIPING THAT PASSES THRU FIRE SEPARATIONS.
- 9 PVC AND PLASTIC PIPING MAY BE USED WHERE PERMITTED BY CODE. ALL PVC PIPING TO RETURN AIR PLUMBING TO BE RFR.
- 10 ALL PLUMBING TO BE INSTALLED IN ACCORDANCE WITH THE LATEST VERSIONS OF THE NATIONAL BUILDING CODE, NATIONAL PLUMBING CODE, LOCAL AUTHORITY CONSTRUCTION DESIGN STANDARDS, MUNICIPALITY BYLAWS, AND ALL OTHER APPLICABLE CODES AND REGULATIONS.
- 11 PROVIDE A COPY OF PLUMBING AND GAS PERMITS TO OWNER.
- 12 PROVIDE ISOLATION VALVES ON ALL FIXTURES AS REQUIRED. ALL ISOLATION VALVES ARE TO BE ACCESSIBLE.
- 13 COORDINATE ALL WORK WITH GENERAL CONTRACTOR AND OTHER TRADES.
- 14 CONFIRM DETAILS OF ALL SUPPORTS WITH STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION.
- 15 CONFIRM ALL SLOPES OF SANITARY AND/OR STORM SEWER PIPING BEFORE COMMENCING WORK.
- 16 ENSURE ALL MECHANICAL IS INSTALLED WITH A HEAD HEIGHT CLEARANCE FROM FLOOR EQUAL TO OR GREATER THAN THE CLEARANCE OF THE PARKADE OVERHEAD DOORS.

PLUMBING KEYNOTES

1

PLUMBING FIXTURE CONNECTION TABLE

| PLUMBING FIXTURE / DEVICES | DCW | DHW | SAN | VACUUM BREAKER |
|----------------------------------|-------|-------|--------|----------------|
| | (in.) | (in.) | (in.) | |
| LAV-1 - LAVATORY - COUNTER MOUNT | 1/2" | 1/2" | 1-1/2" | - |
| WC-1 - WATER CLOSET - FLUSH TANK | 1/2" | - | 3" | - |
| SK-1 - TWO-COMPARTMENT SINK | 1/2" | 1/2" | 2" | - |
| BATH-1 - BATH TUB | 1/2" | 1/2" | 2" | - |
| SHWR-1 - SHOWER | 1/2" | 1/2" | 2" | - |
| FD-1 - FLOOR DRAIN | - | - | 2" | - |
| AD-1 - AREA DRAIN | - | - | 3" | - |
| LNDRY-1 - SUITE LAUNDRY MACHINE | 1/2" | 1/2" | 2" | - |

ALL FIXTURE PIPE SIZES AND REQUIREMENTS FOR FOR VACUUM BREAKERS ARE GENERAL ONLY, AND ARE TO BE USED IF NOT SPECIFICALLY NOTED OTHERWISE. IN ADDITION, PROVIDE VACUUM BREAKERS AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.

DWG REVISIONS: NO. 9 DATE: 01/20/2025 ENGINEER: O.O. DESCRIPTION:

MECHANICAL CONSULTANT:
PS. Engineering Inc
Mechanical Consulting Engineers
306 Sauer Rise, Saskatoon, SK, S7W 0J9
Contact: Odner
Phone : (306) 715-6788
Email : odner@pseng.ca
PROJECT NO. 245-039

PROFESSIONAL SEAL:

PRELIMINARY

THESE DRAWINGS ARE THE PROPERTY OF P.S. ENGINEERING AND AS SUCH MAY NOT BE USED OR REPRODUCED IN ANY MANNER WITHOUT WRITTEN PERMISSION.

CLIENT:
JAMES ZIMMER ARCHITECT

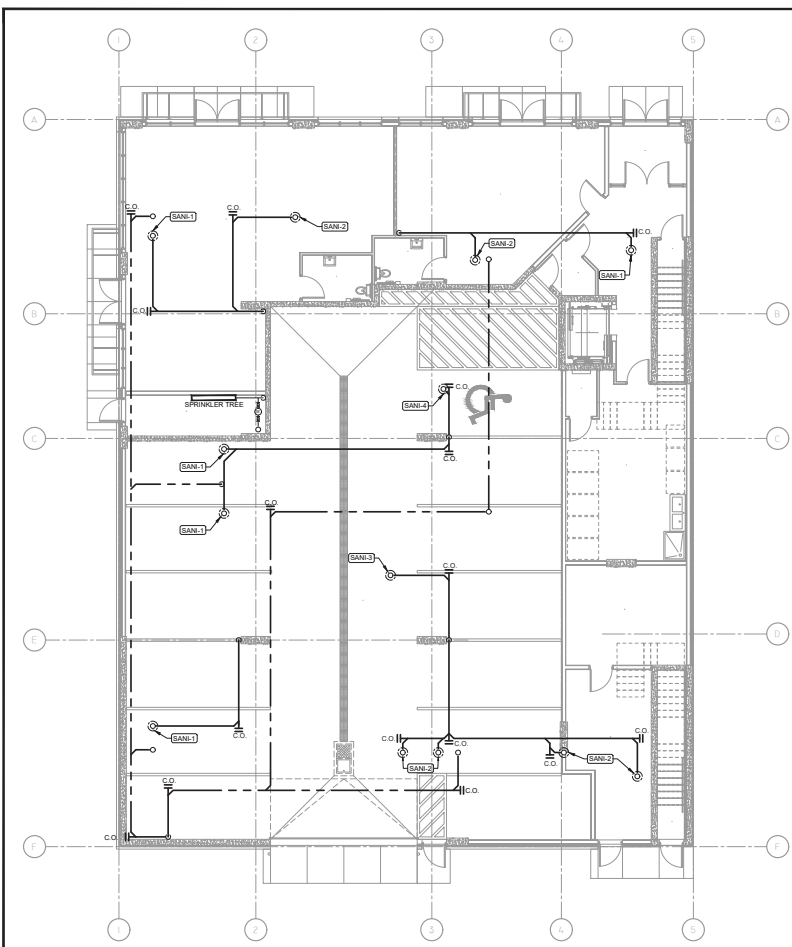
PROJECT:
PROPOSED SIX STORY APARTMENT WITH RETAIL

1202 COLLEGE DRIVE, SASKATOON, SASKATCHEWAN

DRAWING TITLE:
FOUNDATION PLAN PLUMBING

PROJECT: 245-039
DATE: 01/20/2025
SCALE: AS NOTED
DRAWN: LR
CHECKED: O.O.
DRAWING NUMBER:
M1.1
REV#

THIS DRAWING IS NOT TO BE SCALED. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND OTHER DATA FROM THE PROJECT AND REPORT ANY DISCREPANCIES TO P.S. ENGINEERING BEFORE PROCEEDING WITH ANY WORK. ALL WORK TO COMPLY WITH ALL APPLICABLE CODES, STANDARDS AND REGULATIONS.



1 PARKADE PLAN PLUMBING (SANITARY/STORM)
SCALE: 1/8" = 1'-0"

- PLUMBING GENERAL NOTES**
- 1 ALL LINES SHOWN SCHEMATICALLY AND ARE A GENERAL GUIDELINE. ANY MAJOR DEVIATION FROM WHAT IS SHOWN IS TO BE APPROVED BY PE ENGINEERING.
 - 2 ALL SEWER LINES TO RUN BELOW FLOOR OR WITHIN WALL/CEILING SPACE UNLESS OTHERWISE NOTED.
 - 3 ALL EQUIPMENT TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
 - 4 ALL PIPING TO FIXTURES AND EQUIPMENT TO RUN CONCEALED WHERE POSSIBLE.
 - 5 MECHANICAL CONTRACTOR TO RUN A BEAD OF SILICONE AROUND THE BASE OF NEW WATER CLOSETS AND TUBS.
 - 6 CONTRACTOR TO SUPPLY AND INSTALL PLUMBING VENTS, TRAP SEAL PRIMERS, CLEANOUTS, AND ISOLATION VALVES AS PER CODE.
 - 7 SOLDERED AND FLUXES HAVING A LEAD CONTENT IN EXCESS OF 0.2% SHALL NOT BE USED.
 - 8 PROVIDE FIRE STOPS AT ALL PIPING THAT PASSES THRU FIRE SEPARATIONS.
 - 9 PVC AND PLASTIC PIPING MAY BE USED WHERE PERMITTED BY CODE. ALL PVC PIPING IN RETURN AIR FLENUMS TO BE XFR.
 - 10 ALL PLUMBING TO BE INSTALLED IN ACCORDANCE WITH THE LATEST VERSIONS OF THE NATIONAL BUILDING CODE, NATIONAL PLUMBING CODE, LOCAL AUTHORITY CONSTRUCTION DESIGN STANDARDS, MUNICIPALITY BYLAWS, AND ALL OTHER APPLICABLE CODES AND REGULATIONS.
 - 11 PROVIDE A COPY OF PLUMBING AND GAS PERMITS TO OWNER.
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 - 15 CONFIRM ALL SLOPES OF SANITARY AND/OR STORM SEWER PIPING BEFORE COMMENCING WORK.
 - 16 ENSURE ALL MECHANICAL IS INSTALLED WITH A HEAD HEIGHT CLEARANCE FROM FLOOR EQUAL TO OR GREATER THAN THE CLEARANCE OF THE PARKADE OVERHEAD DOORS.

PLUMBING KEYNOTES

1

MECHANICAL CONSULTANT:
PS. Engineering Inc
Mechanical Consulting Engineers
306 Sauer Rise, Saskatoon, SK, S7W 0J9
Contact: Odner
Phone : (306) 715-6788
Email : odner@pseng.ca
PROJECT NO. 245-039

PROFESSIONAL SEAL:
PRELIMINARY

THESE DRAWINGS ARE THE PROPERTY OF P.S. ENGINEERING AND AS SUCH MAY NOT BE USED OR REPRODUCED IN ANY MANNER WITHOUT WRITTEN PERMISSION.

CLIENT:
JAMES ZIMMER ARCHITECT

PROJECT:
PROPOSED SIX STORY APARTMENT WITH RETAIL
1202 COLLEGE DRIVE, SASKATOON, SASKATCHEWAN

DRAWING TITLE:
PARKADE PLAN PLUMBING (SANITARY/STORM)

PLUMBING FIXTURE CONNECTION TABLE

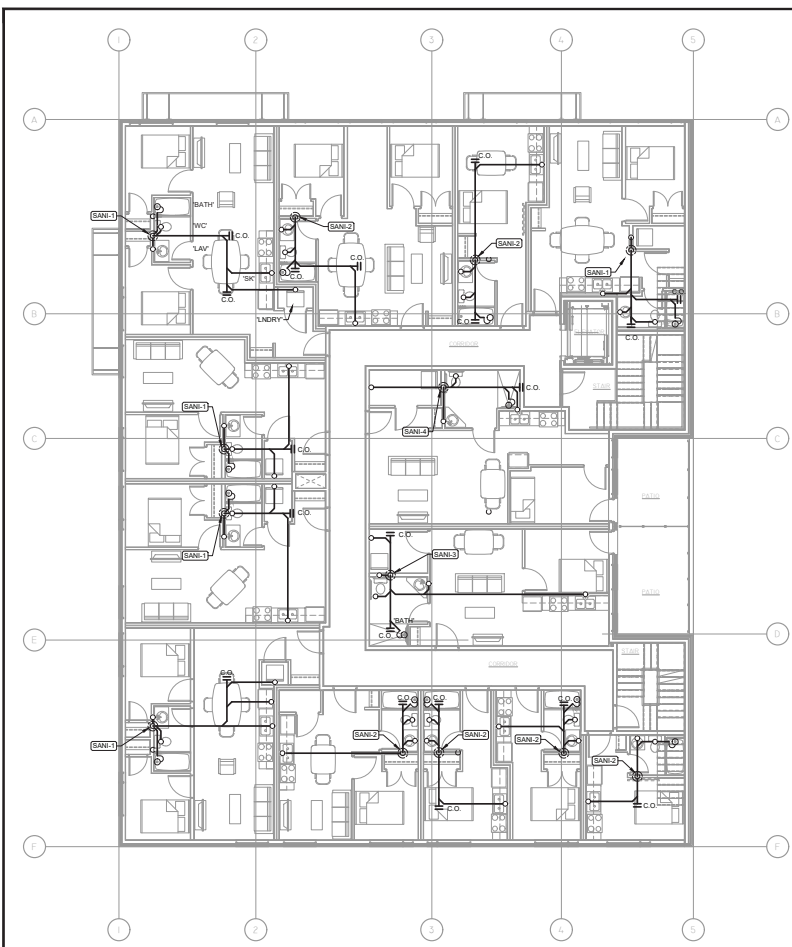
| PLUMBING FIXTURE / DEVICES | DCW | DHW | SAN | VACUUM BREAKER |
|----------------------------------|-------|-------|--------|----------------|
| | (in.) | (in.) | (in.) | |
| LAV-1 - LAVATORY - COUNTER MOUNT | 1/2" | 1/2" | 1-1/2" | - |
| WC-1 - WATER CLOSET - FLUSH TANK | 1/2" | - | 3" | - |
| SK-1 - TWO-COMPARTMENT SINK | 1/2" | 1/2" | 2" | - |
| BATH-1 - BATH/TUB | 1/2" | 1/2" | 2" | - |
| SHWR-1 - SHOWER | 1/2" | 1/2" | 2" | - |
| FD-1 - FLOOR DRAIN | - | - | 2" | - |
| AD-1 - AREA DRAIN | - | - | 3" | - |
| LNDRY-1 - SUITE LAUNDRY MACHINE | 1/2" | 1/2" | 2" | - |

ALL FIXTURE PIPE SIZES AND REQUIREMENTS FOR VACUUM BREAKERS ARE GENERAL ONLY, AND ARE TO BE USED IF NOT SPECIFICALLY NOTED OTHERWISE. IN ADDITION, PROVIDE VACUUM BREAKERS AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.

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| DWG REVISIONS: | NO. 9 | DATE: 01/20/2025 | ENGINEER: O.O. | DESCRIPTION: |
|----------------|-------|------------------|----------------|--------------|

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|------------------|-----------------------------|
| PROJECT: 245-039 | DRAWING NUMBER: M1.2 |
| DATE: 01/20/2025 | |
| SCALE: AS NOTED | |
| DRAWN: L.R. | |
| CHECKED: O.O. | REV# |



1 SECOND & THIRD FLOOR PLAN PLUMBING (SANITARY)
SCALE: 1/8" = 1'-0"

- PLUMBING GENERAL NOTES**
- 1 ALL LINES SHOWN SCHEMATICALLY AND ARE A GENERAL GUIDELINE. ANY MAJOR DEVIATION FROM WHAT IS SHOWN IS TO BE APPROVED BY PE ENGINEERING.
 - 2 ALL SEWER LINES TO RUN BELOW FLOOR OR WITHIN WALL/CEILING SPACE UNLESS OTHERWISE NOTED.
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 - 6 CONTRACTOR TO SUPPLY AND INSTALL PLUMBING VENTS, TRAP SEAL PRIMERS, CLEANOUTS, AND ISOLATION VALVES AS PER CODE.
 - 7 SOLDERED JOINTS SHALL HAVE A LEAD CONTENT IN EXCESS OF 0.2% SHALL NOT BE USED.
 - 8 PROVIDE FIRE STOPS AT ALL PIPING THAT PASSES THRU FIRE SEPARATIONS.
 - 9 PVC AND PLASTIC PIPING MAY BE USED WHERE PERMITTED BY CODE. ALL PVC PIPING IN RETURN AIR FLENUMS TO BE XFR.
 - 10 ALL PLUMBING TO BE INSTALLED IN ACCORDANCE WITH THE LATEST VERSIONS OF THE NATIONAL BUILDING CODE, NATIONAL PLUMBING CODE, LOCAL AUTHORITY CONSTRUCTION DESIGN STANDARDS, MUNICIPALITY BYLAWS, AND ALL OTHER APPLICABLE CODES AND REGULATIONS.
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 - 14 CONFIRM DETAILS OF ALL SUPPORTS WITH STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION.
 - 15 CONFIRM ALL SLOPES OF SANITARY AND/OR STORM SEWER PIPING BEFORE COMMENCING WORK.
 - 16 ENSURE ALL MECHANICAL IS INSTALLED WITH A HEAD HEIGHT CLEARANCE FROM FLOOR EQUAL TO OR GREATER THAN THE CLEARANCE OF THE PARKAGE OVERHEAD DOORS.
 - 17 CONFIRM ALL ROUTING AND SIZING OF EXISTING PIPING ON SITE PRIOR TO CONSTRUCTION (CCTV FOR UNDERSLAB PIPING).

PLUMBING KEYNOTES

1

MECHANICAL CONSULTANT:
PS. Engineering Inc
Mechanical Consulting Engineers
306 Sauer Rise, Saskatoon, SK. S7W 0J9
Contact: Odner
Phone : (306) 715-6788
Email : odner@pseng.ca
PROJECT NO. 245-039

PROFESSIONAL SEAL:
PRELIMINARY

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CLIENT:
JAMES ZIMMER ARCHITECT

PROJECT:
PROPOSED SIX STORY APARTMENT WITH RETAIL
1202 COLLEGE DRIVE, SASKATOON, SASKATCHEWAN

DRAWING TITLE:
SECOND & THIRD FLOOR PLAN PLUMBING (SANITARY)

PLUMBING FIXTURE CONNECTION TABLE

| PLUMBING FIXTURE / DEVICES | DCW | DHW | SAN | VACUUM BREAKER |
|----------------------------------|-------|-------|--------|----------------|
| | (in.) | (in.) | (in.) | |
| LAV-1 - LAVATORY - COUNTER MOUNT | 1/2" | 1/2" | 1-1/2" | - |
| WC-1 - WATER CLOSET - FLUSH TANK | 1/2" | - | 3" | - |
| SK-1 - TWO-COMPARTMENT SINK | 1/2" | 1/2" | 2" | - |
| BATH-1 - BATH TUB | 1/2" | 1/2" | 2" | - |
| SHWR-1 - SHOWER | 1/2" | 1/2" | 2" | - |
| FD-1 - FLOOR DRAIN | - | - | 2" | - |
| AD-1 - AREA DRAIN | - | - | 3" | - |
| LNDRY-1 - SUITE LAUNDRY MACHINE | 1/2" | 1/2" | 2" | - |

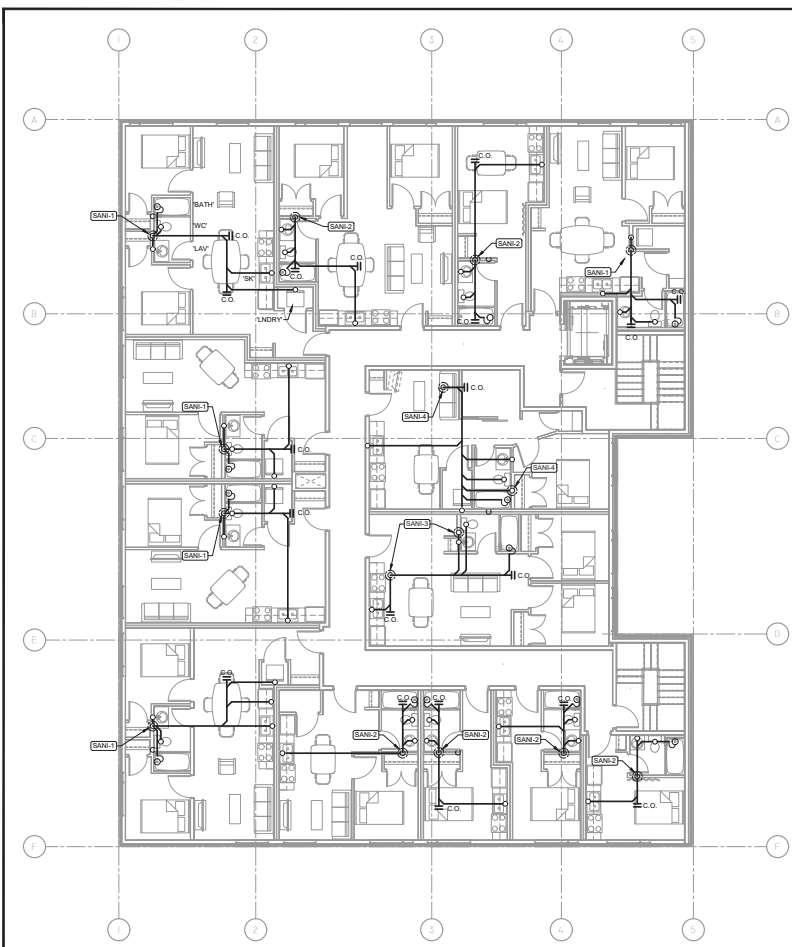
ALL FIXTURE PIPE SIZES AND REQUIREMENTS FOR FOR VACUUM BREAKERS ARE GENERAL ONLY, AND ARE TO BE USED IF NOT SPECIFICALLY NOTED OTHERWISE. IN ADDITION, PROVIDE VACUUM BREAKERS AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.

PROJECT: 245-039
DATE: 01/20/2025
SCALE: AS NOTED
DRAWN: LR
CHECKED: D.G.

DRAWING NUMBER:
M1.3
REV#

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|----------------|-------|------------------|----------------|--------------|
| DWG REVISIONS: | NO. 9 | DATE: 01/20/2025 | ENGINEER: O.O. | DESCRIPTION: |
|----------------|-------|------------------|----------------|--------------|



1
M1.4
SCALE: 1/8" = 1'-0"

PLUMBING GENERAL NOTES

- 1 ALL LINES SHOWN SCHEMATICALLY AND ARE A GENERAL GUIDELINE. ANY MAJOR DEVIATION FROM WHAT IS SHOWN IS TO BE APPROVED BY PE ENGINEERING.
- 2 ALL SEWER LINES TO RUN BELOW FLOOR OR WITHIN WALL/CEILING SPACE UNLESS OTHERWISE NOTED.
- 3 ALL EQUIPMENT TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
- 4 ALL PIPING TO FIXTURES AND EQUIPMENT TO RUN CONCEALED WHERE POSSIBLE.
- 5 MECHANICAL CONTRACTOR TO RUN A BEAD OF SILICONE AROUND THE BASE OF NEW WATER CLOSETS AND TUBS.
- 6 CONTRACTOR TO SUPPLY AND INSTALL PLUMBING VENTS, TRAP SEAL PRIMERS, CLEANOUTS, AND ISOLATION VALVES AS PER CODE.
- 7 SOLDER AND FLUXES HAVING A LEAD CONTENT IN EXCESS OF 0.2% SHALL NOT BE USED.
- 8 PROVIDE FIRE STOPS AT ALL PIPING THAT PASSES THRU FIRE SEPARATIONS.
- 9 PVC AND PLASTIC PIPING MAY BE USED WHERE PERMITTED BY CODE. ALL PVC PIPING IN RETURN AIR PLENUMS TO BE XFR.
- 10 ALL PLUMBING TO BE INSTALLED IN ACCORDANCE WITH THE LATEST VERSIONS OF THE NATIONAL BUILDING CODE, NATIONAL PLUMBING CODE, LOCAL AUTHORITY CONSTRUCTION DESIGN STANDARDS, MUNICIPALITY BYLAWS, AND ALL OTHER APPLICABLE CODES AND REGULATIONS.
- 11 PROVIDE A COPY OF PLUMBING AND GAS PERMITS TO OWNER.
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- 13 COORDINATE ALL WORK WITH GENERAL CONTRACTOR AND OTHER TRADES.
- 14 CONFIRM DETAILS OF ALL SUPPORTS WITH STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION.
- 15 CONFIRM ALL SLOPES OF SANITARY AND/OR STORM SEWER PIPING BEFORE COMMENCING WORK.
- 16 ENSURE ALL MECHANICAL IS INSTALLED WITH A HEAD HEIGHT CLEARANCE FROM FLOOR EQUAL TO OR GREATER THAN THE CLEARANCE OF THE PARKADE OVERHEAD DOORS.

PLUMBING KEYNOTES

1

MECHANICAL CONSULTANT:

P.S. Engineering Inc.
Mechanical Consulting Engineers
306 Sauer Rise, Saskatoon, SK, S7W 0J9
Contact: Odner
Phone : (306) 715-6788
Email : odner@pseng.ca
PROJECT NO. 245-039

PROFESSIONAL SEAL:

PRELIMINARY

THESE DRAWINGS ARE THE PROPERTY OF P.S. ENGINEERING AND AS SUCH MAY NOT BE USED OR REPRODUCED IN ANY MANNER WITHOUT WRITTEN PERMISSION.

CLIENT:
JAMES ZIMMER ARCHITECT

PROJECT:
PROPOSED SIX STORY APARTMENT WITH RETAIL
1202 COLLEGE DRIVE,
SASKATOON, SASKATCHEWAN

DRAWING TITLE:
FOURTH FLOOR PLAN PLUMBING (SANITARY)

| PLUMBING FIXTURE CONNECTION TABLE | | | | |
|-----------------------------------|-------|-------|--------|----------------|
| PLUMBING FIXTURE / DEVICES | DCW | DHW | SAN | VACUUM BREAKER |
| | (in.) | (in.) | (in.) | |
| LAV-1 - LAVATORY - COUNTER MOUNT | 1/2" | 1/2" | 1-1/2" | - |
| WC-1 - WATER CLOSET - FLUSH TANK | 1/2" | - | 3" | - |
| SK-1 - TWO-COMPARTMENT SINK | 1/2" | 1/2" | 2" | - |
| BATH-1 - BATH/TUB | 1/2" | 1/2" | 2" | - |
| SHWR-1 - SHOWER | 1/2" | 1/2" | 2" | - |
| FD-1 - FLOOR DRAIN | - | - | 2" | - |
| AD-1 - AREA DRAIN | - | - | 3" | - |
| LNDRY-1 - SUITE LAUNDRY MACHINE | 1/2" | 1/2" | 2" | - |

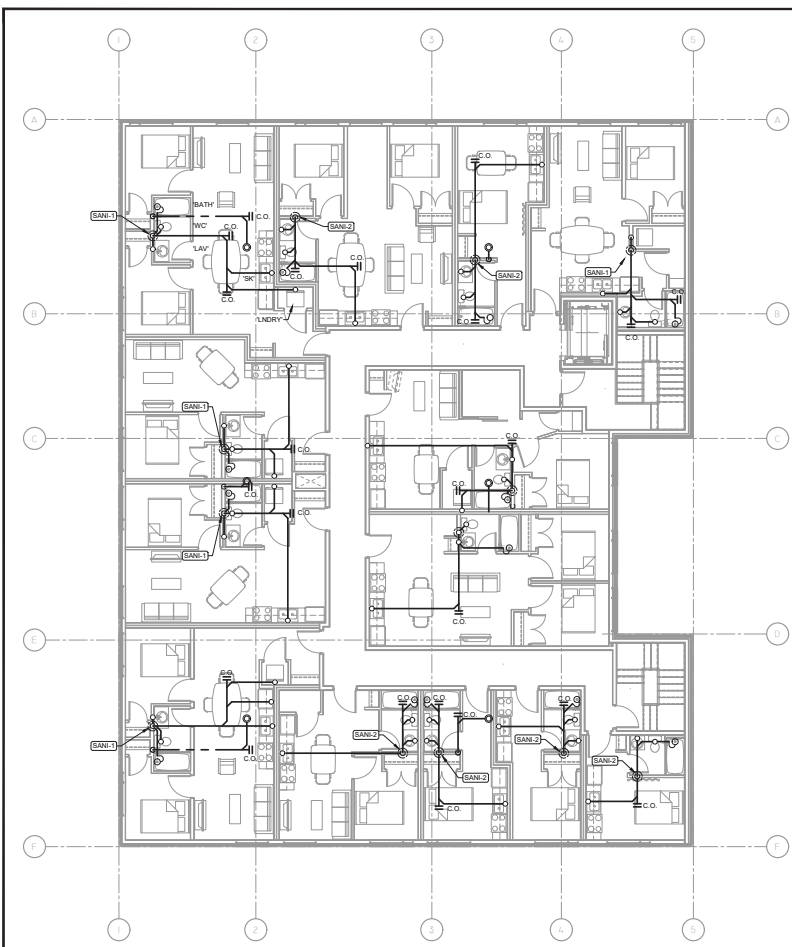
ALL FIXTURE PIPE SIZES AND REQUIREMENTS FOR FOR VACUUM BREAKERS ARE GENERAL ONLY, AND ARE TO BE USED IF NOT SPECIFICALLY NOTED OTHERWISE. IN ADDITION, PROVIDE VACUUM BREAKERS AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.

PROJECT: 245-039
DATE: 01/20/2025
SCALE: AS NOTED
DRAWN: LR
CHECKED: D.O.

DRAWING NUMBER:
M1.4
REV#

THIS DRAWING IS NOT TO BE SCALED. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND OTHER DATA FROM THE PROJECT AND REPORT ANY DISCREPANCIES TO P.S. ENGINEERING BEFORE PROCEEDING WITH ANY WORK. ALL WORK TO COMPLY WITH ALL APPLICABLE CODES, STANDARDS AND REGULATIONS.

DWG REVISIONS: NO. 9 DATE: 01/20/2025 ENGINEER: D.O. DESCRIPTION:



FIFTH & SIXTH FLOOR PLAN PLUMBING (SANITARY)
SCALE: 1/8" = 1'-0"

PLUMBING GENERAL NOTES

- 1 ALL LINES SHOWN SCHEMATICALLY AND ARE A GENERAL GUIDELINE. ANY MAJOR DEVIATION FROM WHAT IS SHOWN IS TO BE APPROVED BY P.S. ENGINEERING.
- 2 ALL SEWER LINES TO RUN BELOW FLOOR OR WITHIN WALLS/CIELING SPACE UNLESS OTHERWISE NOTED.
- 3 ALL EQUIPMENT TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
- 4 ALL PIPING TO FIXTURES AND EQUIPMENT TO RUN CONCEALED WHERE POSSIBLE.
- 5 MECHANICAL CONTRACTOR TO RUN A BEAD OF SILICONE AROUND THE BASE OF NEW WATER CLOSETS AND TUBS.
- 6 CONTRACTOR TO SUPPLY AND INSTALL PLUMBING VENTS, TRAP SEAL PRIMERS, CLEANOUTS, AND ISOLATION VALVES AS PER CODE.
- 7 SOLDERERS AND FLUXES HAVING A LEAD CONTENT IN EXCESS OF 0.2% SHALL NOT BE USED.
- 8 PROVIDE FIRE STOPS AT ALL PIPING THAT PASSES THRU FIRE SEPARATIONS.
- 9 PVC AND PLASTIC PIPING MAY BE USED WHERE PERMITTED BY CODE. ALL PVC PIPING IN RETURN AIR PLENUMS TO BE XFR.
- 10 ALL PLUMBING TO BE INSTALLED IN ACCORDANCE WITH THE LATEST VERSIONS OF THE NATIONAL PLUMBING CODE, NATIONAL PLUMBING CODE, LOCAL AUTHORITY CONSTRUCTION DESIGN STANDARDS, MUNICIPALITY BY-LAWS, AND ALL OTHER APPLICABLE CODES AND REGULATIONS.
- 11 PROVIDE A COPY OF PLUMBING AND GAS PERMITS TO OWNER.
- 12 PROVIDE ISOLATION VALVES ON ALL FIXTURES AS REQUIRED. ALL ISOLATION VALVES ARE TO BE ACCESSIBLE.
- 13 COORDINATE ALL WORK WITH GENERAL CONTRACTOR AND OTHER TRADES.
- 14 CONFIRM DETAILS OF ALL SUPPORTS WITH STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION.
- 15 CONFIRM ALL SLOPES OF SANITARY AND/OR STORM SEWER PIPING BEFORE COMMENCING WORK.
- 16 ENSURE ALL MECHANICAL IS INSTALLED WITH A HEAD HEIGHT CLEARANCE FROM FLOOR EQUAL TO OR GREATER THAN THE CLEARANCE OF THE PARADE OVERHEAD DOORS.

PLUMBING KEYNOTES

1

MECHANICAL CONSULTANT:
PS. Engineering Inc
Mechanical Consulting Engineers
306 Sauer Rise, Saskatoon, SK. S7W 0J9
Contact: Odner
Phone : (306) 715-6788
Email : odner@pseng.ca
PROJECT NO. 245-039

PROFESSIONAL SEAL:
PRELIMINARY

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CLIENT:
JAMES ZIMMER ARCHITECT

PROJECT:
PROPOSED SIX STORY APARTMENT WITH RETAIL
1202 COLLEGE DRIVE, SASKATOON, SASKATCHEWAN

DRAWING TITLE:
FIFTH & SIXTH FLOOR PLAN PLUMBING (SANITARY)

PLUMBING FIXTURE CONNECTION TABLE

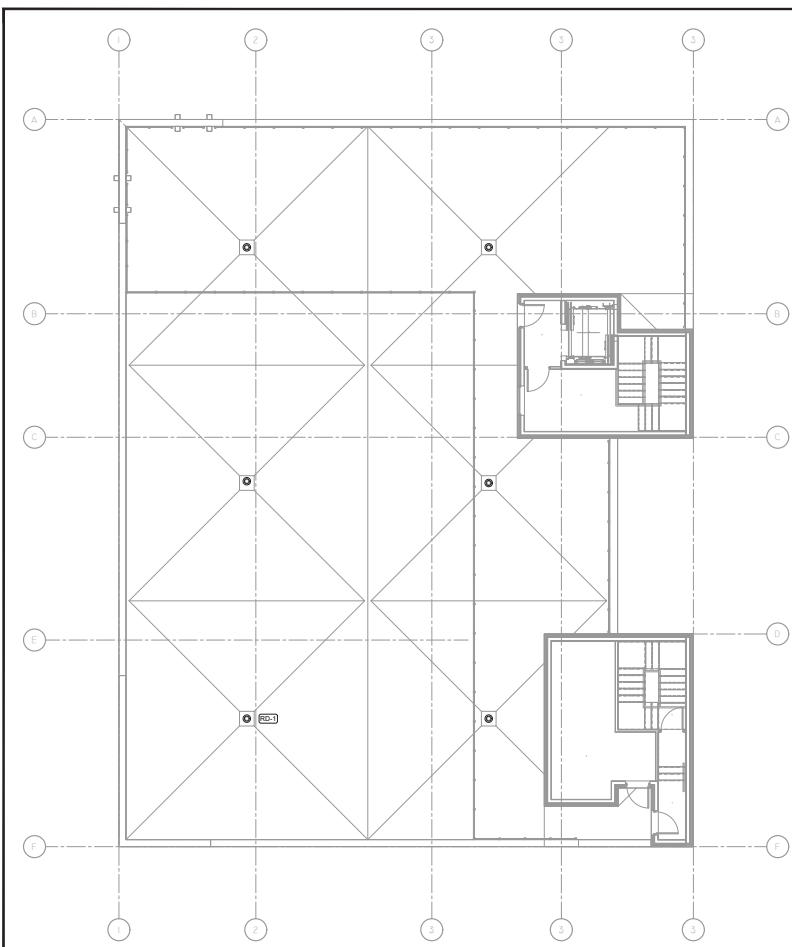
| PLUMBING FIXTURE / DEVICES | DCW | DHW | SAN | VACUUM BREAKER |
|----------------------------------|-------|-------|--------|----------------|
| | (in.) | (in.) | (in.) | |
| LAV-1 - LAVATORY - COUNTER MOUNT | 1/2" | 1/2" | 1-1/2" | - |
| WC-1 - WATER CLOSET - FLUSH TANK | 1/2" | - | 3" | - |
| SK-1 - TWO-COMPARTMENT SINK | 1/2" | 1/2" | 2" | - |
| BATH-1 - BATH/TUB | 1/2" | 1/2" | 2" | - |
| SHWR-1 - SHOWER | 1/2" | 1/2" | 2" | - |
| FD-1 - FLOOR DRAIN | - | - | 2" | - |
| AD-1 - AREA DRAIN | - | - | 3" | - |
| LNDRY-1 - SUITE LAUNDRY MACHINE | 1/2" | 1/2" | 2" | - |

ALL FIXTURE PIPE SIZES AND REQUIREMENTS FOR FOR VACUUM BREAKERS ARE GENERAL ONLY, AND ARE TO BE USED IF NOT SPECIFICALLY NOTED OTHERWISE. IN ADDITION, PROVIDE VACUUM BREAKERS AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.

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| | | | | |
|----------------|-------|------------------|----------------|--------------|
| DWG REVISIONS: | NO. 9 | DATE: 01/02/2025 | ENGINEER: O.O. | DESCRIPTION: |
|----------------|-------|------------------|----------------|--------------|

| | |
|------------------|--------------------------------|
| PROJECT: 245-039 | DRAWING NUMBER: M1.5 |
| DATE: 01/02/2025 | |
| SCALE: AS NOTED | |
| DRAWN: L.R. | |
| CHECKED: O.O. | REV#: |



1
ME 6
ROOF PLAN PLUMBING
SCALE: 1/8" = 1'-0"

- PLUMBING GENERAL NOTES**
- 1 ALL LINES SHOWN SCHEMATICALLY AND ARE A GENERAL GUIDELINE. ANY MAJOR DEVIATION FROM WHAT IS SHOWN IS TO BE APPROVED BY P.S. ENGINEERING.
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PLUMBING KEYNOTES
1

MECHANICAL CONSULTANT:

P.S. Engineering Inc
Mechanical Consulting Engineers
306 Sauer Rise, Saskatoon, SK. S7W 0J9
Contact: Odner
Phone : (306) 715-6788
Email : odner@pseng.ca
PROJECT NO. 245-039

PROFESSIONAL SEAL:

PRELIMINARY

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CLIENT:
JAMES ZIMMER ARCHITECT

PROJECT:
PROPOSED SIX STORY APARTMENT WITH RETAIL
1202 COLLEGE DRIVE, SASKATOON, SASKATCHEWAN

DRAWING TITLE:
ROOF PLAN PLUMBING

PROJECT: 245-039
DATE: 01/09/2025
SCALE: AS NOTED
DRAWN: LR
CHECKED: O.G.
DRAWING NUMBER:
M1.6
REV#

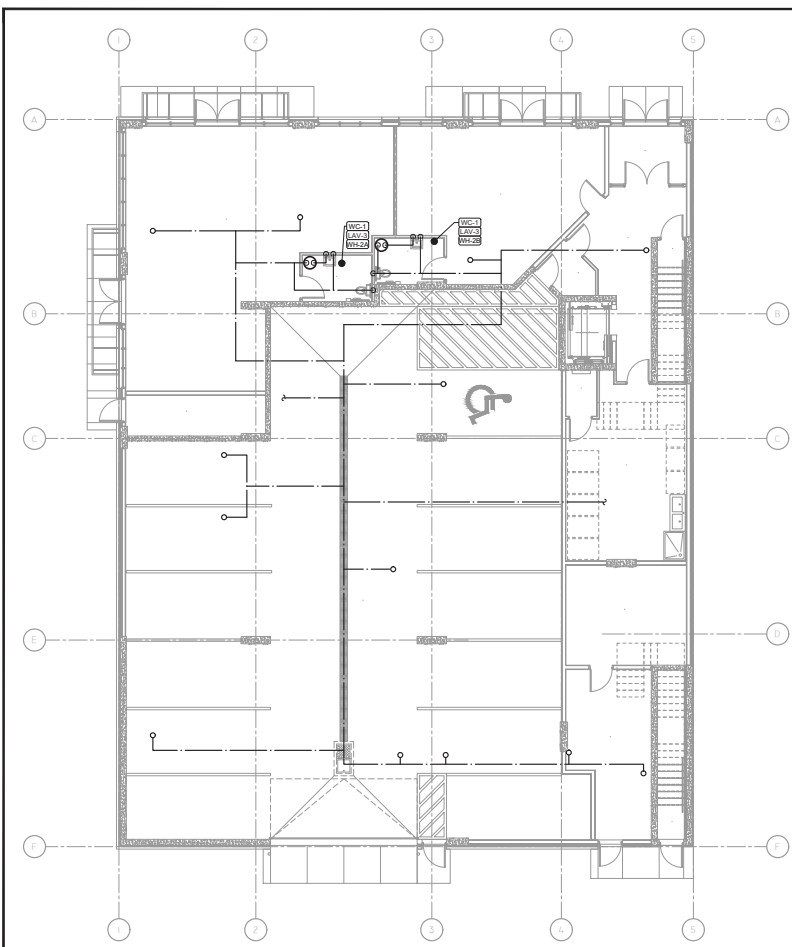
PLUMBING FIXTURE CONNECTION TABLE

| PLUMBING FIXTURE / DEVICES | DCW | DHW | SAN | VACUUM BREAKER |
|----------------------------------|-------|-------|--------|----------------|
| | (in.) | (in.) | (in.) | |
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| WC-1 - WATER CLOSET - FLUSH TANK | 1/2" | - | 3" | - |
| SK-1 - TWO-COMPARTMENT SINK | 1/2" | 1/2" | 2" | - |
| BATH-1 - BATH/TUB | 1/2" | 1/2" | 2" | - |
| SHWR-1 - SHOWER | 1/2" | 1/2" | 2" | - |
| FD-1 - FLOOR DRAIN | - | - | 2" | - |
| AD-1 - AREA DRAIN | - | - | 3" | - |
| LNDRV-1 - SUITE LAUNDRY MACHINE | 1/2" | 1/2" | 2" | - |

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DWG REVISIONS: NO. 9 DATE: 01/09/2025 ENGINEER: O.G. DESCRIPTION:



1 PARKADE PLAN PLUMBING (DOMESTIC)
SCALE: 1/8" = 1'-0"

PLUMBING GENERAL NOTES

- 1 ALL LINES SHOWN SCHEMATICALLY AND ARE A GENERAL GUIDELINE. ANY MAJOR DEVIATION FROM WHAT IS SHOWN IS TO BE APPROVED BY P.S. ENGINEERING.
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PLUMBING KEYNOTES

1

MECHANICAL CONSULTANT:
PS. Engineering Inc
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306 Sauer Rise, Saskatoon, SK. S7W 0J9
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Phone : (306) 715-6788
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PROJECT NO. 245/03

PROFESSIONAL SEAL:
PRELIMINARY

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CLIENT:
JAMES ZIMMER ARCHITECT

PROJECT:
PROPOSED SIX STORY APARTMENT WITH RETAIL
1202 COLLEGE DRIVE, SASKATOON, SASKATCHEWAN

DRAWING TITLE:
PARKADE PLAN PLUMBING (DOMESTIC)

PROJECT 245/03
DATE: 01/20/2025
SCALE: AS NOTED
DRAWN: LR
CHECKED: O.O.
DRAWING NUMBER:
M2.1
REV#

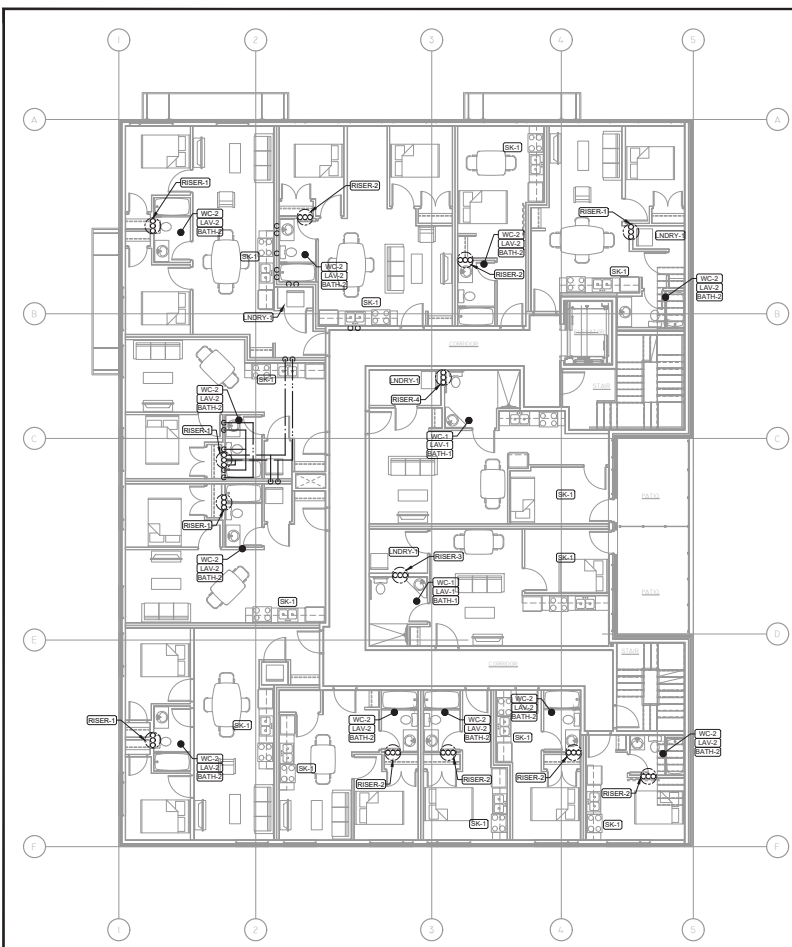
PLUMBING FIXTURE CONNECTION TABLE

| PLUMBING FIXTURE / DEVICES | DCW | DHW | SAN | VACUUM BREAKER |
|----------------------------------|-------|-------|--------|----------------|
| | (in.) | (in.) | (in.) | |
| LAV-1 - LAVATORY - COUNTER MOUNT | 1/2" | 1/2" | 1-1/2" | - |
| WC-1 - WATER CLOSET - FLUSH TANK | 1/2" | - | 3" | - |
| SK-1 - TWO-COMPARTMENT SINK | 1/2" | 1/2" | 2" | - |
| BATH-1 - BATH TUB | 1/2" | 1/2" | 2" | - |
| SW-1 - SHOWER | 1/2" | 1/2" | 2" | - |
| FD-1 - FLOOR DRAIN | - | - | 3" | - |
| AD-1 - AREA DRAIN | - | - | 3" | - |
| LNDV-1 - SUITE LAUNDRY MACHINE | 1/2" | 1/2" | 2" | - |

ALL FIXTURE PIPE SIZES AND REQUIREMENTS FOR FOR VACUUM BREAKERS ARE GENERAL ONLY, AND ARE TO BE USED IF NOT SPECIFICALLY NOTED OTHERWISE. IN ADDITION, PROVIDE VACUUM BREAKERS AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.

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| | | | | |
|----------------|-------|------------------|----------------|--------------|
| DWG REVISIONS: | NO. 9 | DATE: 01/20/2025 | ENGINEER: O.O. | DESCRIPTION: |
|----------------|-------|------------------|----------------|--------------|



1 SECOND FLOOR PLAN PLUMBING (DOMESTIC)
SCALE: 1/8" = 1'-0"

PLUMBING GENERAL NOTES

- 1 ALL LINES SHOWN SCHEMATICALLY AND ARE A GENERAL GUIDELINE. ANY MAJOR DEVIATION FROM WHAT IS SHOWN IS TO BE APPROVED BY PE ENGINEERING.
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PLUMBING KEYNOTES

1

MECHANICAL CONSULTANT:
PS. Engineering Inc
Mechanical Consulting Engineers
306 Sauer Rise, Saskatoon, SK. S7W 0J9
Contact: Odner
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Email : odner@pseng.ca
PROJECT NO. 245-039

PROFESSIONAL SEAL:
PRELIMINARY

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CLIENT:
JAMES ZIMMER ARCHITECT

PROJECT:
PROPOSED SIX STORY APARTMENT WITH RETAIL
1202 COLLEGE DRIVE, SASKATOON, SASKATCHEWAN

DRAWING TITLE:
SECOND FLOOR PLAN PLUMBING (DOMESTIC)

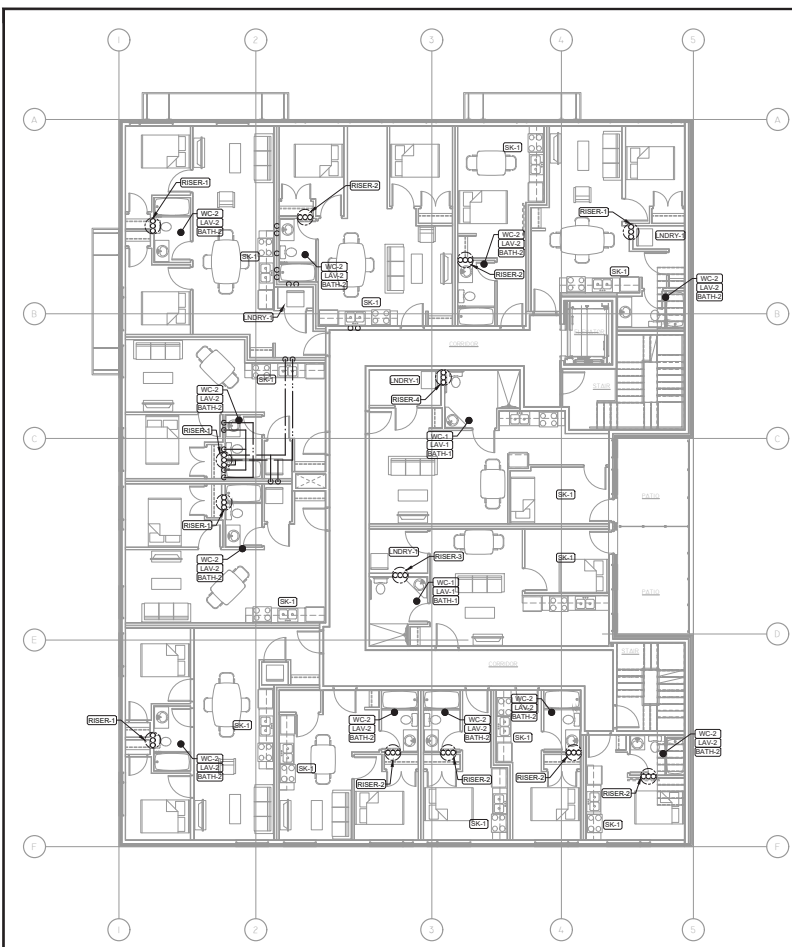
PROJECT 245-039
DATE: 01/20/2025
SCALE: AS NOTED
DRAWN: LR
CHECKED: D.O.
DRAWING NUMBER:
M2.2
REV#

| PLUMBING FIXTURE CONNECTION TABLE | | | | |
|-----------------------------------|-------|-------|--------|----------------|
| PLUMBING FIXTURE / DEVICES | DCW | DHW | SAN | VACUUM BREAKER |
| | (in.) | (in.) | (in.) | |
| LAV-1 - LAVATORY - COUNTER MOUNT | 1/2" | 1/2" | 1-1/2" | - |
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| SHWR-1 - SHOWER | 1/2" | 1/2" | 2" | - |
| FD-1 - FLOOR DRAIN | - | - | 2" | - |
| AD-1 - AREA DRAIN | - | - | 3" | - |
| LNDRY-1 - SUITE LAUNDRY MACHINE | 1/2" | 1/2" | 2" | - |

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| | | | | |
|----------------|-------|------------------|----------------|--------------|
| DWG REVISIONS: | NO. 9 | DATE: 01/20/2025 | ENGINEER: D.O. | DESCRIPTION: |
|----------------|-------|------------------|----------------|--------------|



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 - 8 PROVIDE FIRE STOPS AT ALL PIPING THAT PASSES THRU FIRE SEPARATIONS.
 - 9 PVC AND PLASTIC PIPING MAY BE USED WHERE PERMITTED BY CODE. ALL PVC PIPING IN RETURN AIR FLENUMS TO BE XFR.
 - 10 ALL PLUMBING TO BE INSTALLED IN ACCORDANCE WITH THE LATEST VERSIONS OF THE NATIONAL BUILDING CODE, NATIONAL PLUMBING CODE, LOCAL AUTHORITY CONSTRUCTION DESIGN STANDARDS, MUNICIPALITY BYLAWS, AND ALL OTHER APPLICABLE CODES AND REGULATIONS.
 - 11 PROVIDE A COPY OF PLUMBING AND GAS PERMITS TO OWNER.
 - 12 PROVIDE ISOLATION VALVES ON ALL FIXTURES AS REQUIRED. ALL ISOLATION VALVES ARE TO BE ACCESSIBLE.
 - 13 COORDINATE ALL WORK WITH GENERAL CONTRACTOR AND OTHER TRADES.
 - 14 CONFIRM DETAILS OF ALL SUPPORTS WITH STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION.
 - 15 CONFIRM ALL SLOPES OF SANITARY AND/OR STORM SEWER PIPING BEFORE COMMENCING WORK.
 - 16 ENSURE ALL MECHANICAL IS INSTALLED WITH A HEAD HEIGHT CLEARANCE FROM FLOOR EQUAL TO OR GREATER THAN THE CLEARANCE OF THE PARADE OVERHEAD DOORS.
- ### PLUMBING KEYNOTES
- 1

MECHANICAL CONSULTANT:
PS. Engineering Inc
Mechanical Consulting Engineers
306 Sauer Rise, Saskatoon, SK. S7W 0J9
Contact: Odner
Phone : (306) 715-6788
Email : odner@pseng.ca
PROJECT NO. 245-039

PROFESSIONAL SEAL:
PRELIMINARY

THESE DRAWINGS ARE THE PROPERTY OF P.S. ENGINEERING AND AS SUCH MAY NOT BE USED OR REPRODUCED IN ANY MANNER WITHOUT WRITTEN PERMISSION.

CLIENT:
JAMES ZIMMER ARCHITECT

PROJECT:
PROPOSED SIX STORY APARTMENT WITH RETAIL
1202 COLLEGE DRIVE, SASKATOON, SASKATCHEWAN

DRAWING TITLE:
THIRD FLOOR PLAN PLUMBING (DOMESTIC)

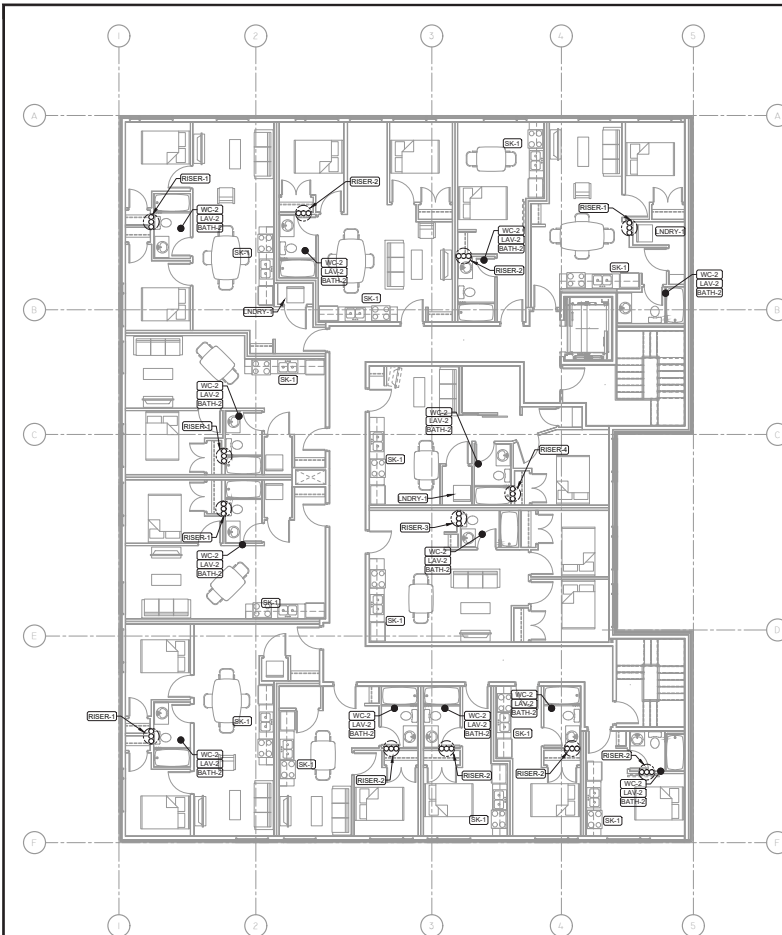
| PLUMBING FIXTURE / DEVICES | DCW | DHW | SAN | VACUUM BREAKER |
|----------------------------------|-------|-------|--------|----------------|
| | (in.) | (in.) | (in.) | |
| LAV-1 - LAVATORY - COUNTER MOUNT | 1/2" | 1/2" | 1-1/2" | - |
| WC-1 - WATER CLOSET - FLUSH TANK | 1/2" | - | 3" | - |
| SK-1 - TWO-COMPARTMENT SINK | 1/2" | 1/2" | 2" | - |
| BATH-1 - BATH TUB | 1/2" | 1/2" | 2" | - |
| SHWR-1 - SHOWER | 1/2" | 1/2" | 2" | - |
| FD-1 - FLOOR DRAIN | - | - | 2" | - |
| AD-1 - AREA DRAIN | - | - | 3" | - |
| LNDRY-1 - SUITE LAUNDRY MACHINE | 1/2" | 1/2" | 2" | - |

ALL FIXTURE PIPE SIZES AND REQUIREMENTS FOR FOR VACUUM BREAKERS ARE GENERAL ONLY, AND ARE TO BE USED IF NOT SPECIFICALLY NOTED OTHERWISE. IN ADDITION, PROVIDE VACUUM BREAKERS AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.

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| | | | | |
|----------------|-------|------------------|----------------|--------------|
| DWG REVISIONS: | NO. 9 | DATE: 01/02/2025 | ENGINEER: O.O. | DESCRIPTION: |
|----------------|-------|------------------|----------------|--------------|

| | |
|------------------|-----------------------------|
| PROJECT: 245-039 | DRAWING NUMBER: M2.3 |
| DATE: 01/02/2025 | |
| SCALE: AS NOTED | |
| DRAWN: LR | |
| CHECKED: O.O. | REV# |



1
M2.4 SCALE: 1/32" = 1'-0"

- PLUMBING GENERAL NOTES**
- 1 ALL LINES SHOWN SCHEMATICALLY AND ARE A GENERAL GUIDELINE. ANY MAJOR DEVIATION FROM WHAT IS SHOWN IS TO BE APPROVED BY PE ENGINEERING.
 - 2 ALL SEWER LINES TO RUN BELOW FLOOR OR WITHIN WALL/CEILING SPACE UNLESS OTHERWISE NOTED.
 - 3 ALL EQUIPMENT TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
 - 4 ALL PIPING TO FIXTURES AND EQUIPMENT TO RUN CONCEALED WHERE POSSIBLE.
 - 5 MECHANICAL CONTRACTOR TO RUN A BEAD OF SILICONE AROUND THE BASE OF NEW WATER CLOSETS AND TUBS.
 - 6 CONTRACTOR TO SUPPLY AND INSTALL PLUMBING VENTS, TRAP SEAL PRIMERS, CLEANOUTS, AND ISOLATION VALVES AS PER CODE.
 - 7 SOLDERED AND FLUXES HAVING A LEAD CONTENT IN EXCESS OF 0.2% SHALL NOT BE USED.
 - 8 PROVIDE FIRE STOPS AT ALL PIPING THAT PASSES THRU FIRE SEPARATIONS.
 - 9 PVC AND PLASTIC PIPING MAY BE USED WHERE PERMITTED BY CODE. ALL PVC PIPING IN RETURN AIR PLenums TO BE XFR.
 - 10 ALL PLUMBING TO BE INSTALLED IN ACCORDANCE WITH THE LATEST VERSIONS OF THE NATIONAL BUILDING CODE, NATIONAL PLUMBING CODE, LOCAL AUTHORITY CONSTRUCTION DESIGN STANDARDS, MUNICIPALITY BYLAWS, AND ALL OTHER APPLICABLE CODES AND REGULATIONS.
 - 11 PROVIDE A COPY OF PLUMBING AND GAS PERMITS TO OWNER.
 - 12 PROVIDE ISOLATION VALVES ON ALL FIXTURES AS REQUIRED. ALL ISOLATION VALVES ARE TO BE ACCESSIBLE.
 - 13 COORDINATE ALL WORK WITH GENERAL CONTRACTOR AND OTHER TRADES.
 - 14 CONFIRM DETAILS OF ALL SUPPORTS WITH STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION.
 - 15 CONFIRM ALL SLOPES OF SANITARY AND/OR STORM SEWER PIPING BEFORE COMMENCING WORK.
 - 16 ENSURE ALL MECHANICAL IS INSTALLED WITH A HEAD HEIGHT CLEARANCE FROM FLOOR EQUAL TO OR GREATER THAN THE CLEARANCE OF THE PARKAGE OVERHEAD DOORS.
- PLUMBING KEYNOTES**
- 1

MECHANICAL CONSULTANT:

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Mechanical Consulting Engineers
306 Sauer Rise, Saskatoon, SK, S7W 0J9
Contact: Odner
Phone : (306) 715-6788
Email : odner@pseng.ca
PROJECT NO. 245-039

PROFESSIONAL SEAL:

PRELIMINARY

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CLIENT:
JAMES ZIMMER ARCHITECT

PROJECT:
PROPOSED SIX STORY APARTMENT WITH RETAIL

1202 COLLEGE DRIVE, SASKATOON, SASKATCHEWAN

DRAWING TITLE:
FOURTH, FIFTH, AND SIXTH FLOOR PLAN PLUMBING (DOMESTIC)

| | |
|------------------|-----------------|
| PROJECT 245-039 | DRAWING NUMBER: |
| DATE: 01/01/2025 | M2.4 |
| SCALE: AS NOTED | |
| DRAWN: LR | |
| CHECKED: D.G. | REV# |

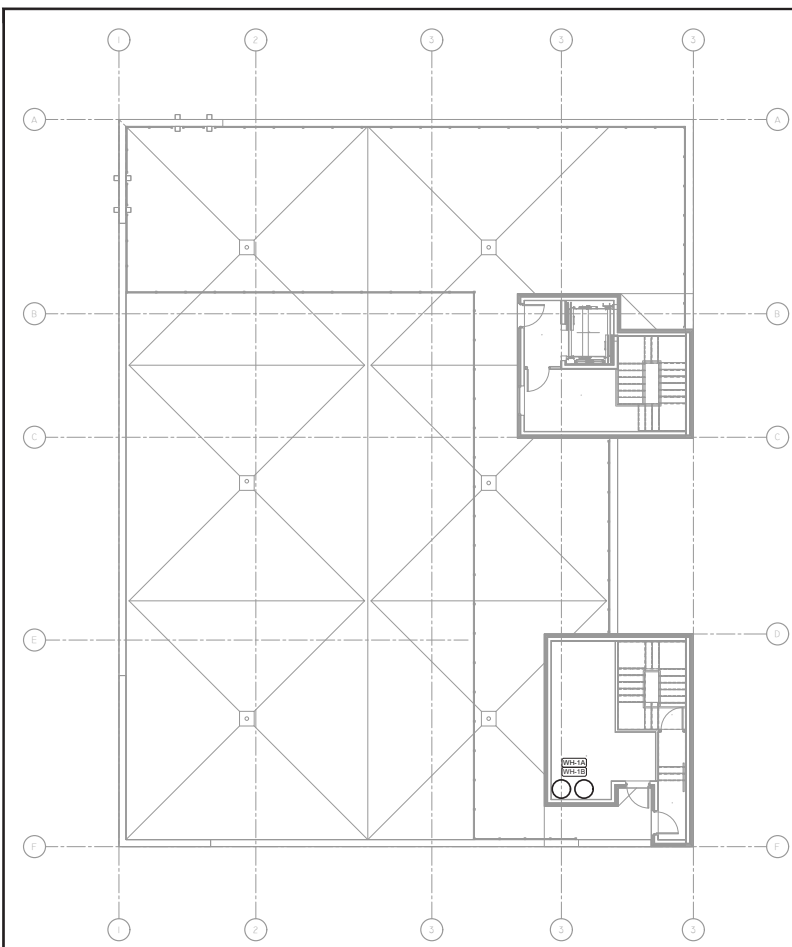
PLUMBING FIXTURE CONNECTION TABLE

| PLUMBING FIXTURE / DEVICES | DCW | DHW | SAN | VACUUM BREAKER |
|----------------------------------|-------|-------|--------|----------------|
| | (in.) | (in.) | (in.) | |
| LAV-1 - LAVATORY - COUNTER MOUNT | 1/2" | 1/2" | 1-1/2" | - |
| WC-1 - WATER CLOSET - FLUSH TANK | 1/2" | - | 3" | - |
| SK-1 - TWO-COMPARTMENT SINK | 1/2" | 1/2" | 2" | - |
| BATH-1 - BATHTUB | 1/2" | 1/2" | 2" | - |
| SHWR-1 - SHOWER | 1/2" | 1/2" | 2" | - |
| FD-1 - FLOOR DRAIN | - | - | 2" | - |
| AD-1 - AREA DRAIN | - | - | 3" | - |
| LNDRY-1 - SUITE LAUNDRY MACHINE | 1/2" | 1/2" | 2" | - |

ALL FIXTURE PIPE SIZES AND REQUIREMENTS FOR FOR VACUUM BREAKERS ARE GENERAL ONLY, AND ARE TO BE USED IF NOT SPECIFICALLY NOTED OTHERWISE. IN ADDITION, PROVIDE VACUUM BREAKERS AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.

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| | | | | |
|----------------|-------|------------------|----------------|--------------|
| DWG REVISIONS: | NO. 9 | DATE: 01/02/2025 | ENGINEER: O.O. | DESCRIPTION: |
|----------------|-------|------------------|----------------|--------------|



1 ROOF PLAN PLUMBING (DOMESTIC)
SCALE: 1/8" = 1'-0"

- PLUMBING GENERAL NOTES**
- 1 ALL LINES SHOWN SCHEMATICALLY AND ARE A GENERAL GUIDE. NO MAJOR DEVIATION FROM WHAT IS SHOWN IS TO BE APPROVED BY PE ENGINEERING.
 - 2 ALL SEWER LINES TO RUN BELOW FLOOR OR WITHIN WALLS/CIELING SPACE UNLESS OTHERWISE NOTED.
 - 3 ALL EQUIPMENT TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
 - 4 ALL PIPING TO FIXTURES AND EQUIPMENT TO RUN CONCEALED WHERE POSSIBLE.
 - 5 MECHANICAL CONTRACTOR TO RUN A BEAD OF SILICONE AROUND THE BASE OF NEW WATER CLOSETS AND TUBS.
 - 6 CONTRACTOR TO SUPPLY AND INSTALL PLUMBING VENTS, TRAP SEAL PRIMERS, CLEANOUTS, AND ISOLATION VALVES AS PER CODE.
 - 7 SOLDERED AND FLUXES HAVING A LEAD CONTENT IN EXCESS OF 0.2% SHALL NOT BE USED.
 - 8 PROVIDE FIRE STOPS AT ALL PIPING THAT PASSES THRU FIRE SEPARATIONS.
 - 9 PVC AND PLASTIC PIPING MAY BE USED WHERE PERMITTED BY CODE. ALL PVC PIPING IN RETURN AIR PLENUMS TO BE XFR.
 - 10 ALL PLUMBING TO BE INSTALLED IN ACCORDANCE WITH THE LATEST VERSIONS OF THE NATIONAL BUILDING CODE, NATIONAL PLUMBING CODE, LOCAL AUTHORITY CONSTRUCTION DESIGN STANDARDS, MUNICIPALITY BYLAWS, AND ALL OTHER APPLICABLE CODES AND REGULATIONS.
 - 11 PROVIDE A COPY OF PLUMBING AND GAS PERMITS TO OWNER.
 - 12 PROVIDE ISOLATION VALVES ON ALL FIXTURES AS REQUIRED. ALL ISOLATION VALVES ARE TO BE ACCESSIBLE.
 - 13 COORDINATE ALL WORK WITH GENERAL CONTRACTOR AND OTHER TRADES.
 - 14 CONFIRM DETAILS OF ALL SUPPORTS WITH STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION.
 - 15 CONFIRM ALL SLOPES OF SANITARY AND/OR STORM SEWER PIPING BEFORE COMMENCING WORK.
 - 16 ENSURE ALL MECHANICAL IS INSTALLED WITH A HEAD HEIGHT CLEARANCE FROM FLOOR EQUAL TO OR GREATER THAN THE CLEARANCE OF THE PARKAGE OVERHEAD DOORS.

PLUMBING KEYNOTES

1

MECHANICAL CONSULTANT:
PS. Engineering Inc
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306 Sauer Rise, Saskatoon, SK. S7W 0J9
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PROJECT NO. 245-030

PROFESSIONAL SEAL:
PRELIMINARY

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CLIENT:
JAMES ZIMMER ARCHITECT

PROJECT:
PROPOSED SIX STORY APARTMENT WITH RETAIL
1202 COLLEGE DRIVE, SASKATOON, SASKATCHEWAN

DRAWING TITLE:
ROOF PLAN PLUMBING (DOMESTIC)

PROJECT 245-030
DATE: 01/20/2025
SCALE: AS NOTED
DRAWN: LR
CHECKED: D.O.

DRAWING NUMBER:
M2.5
REV#

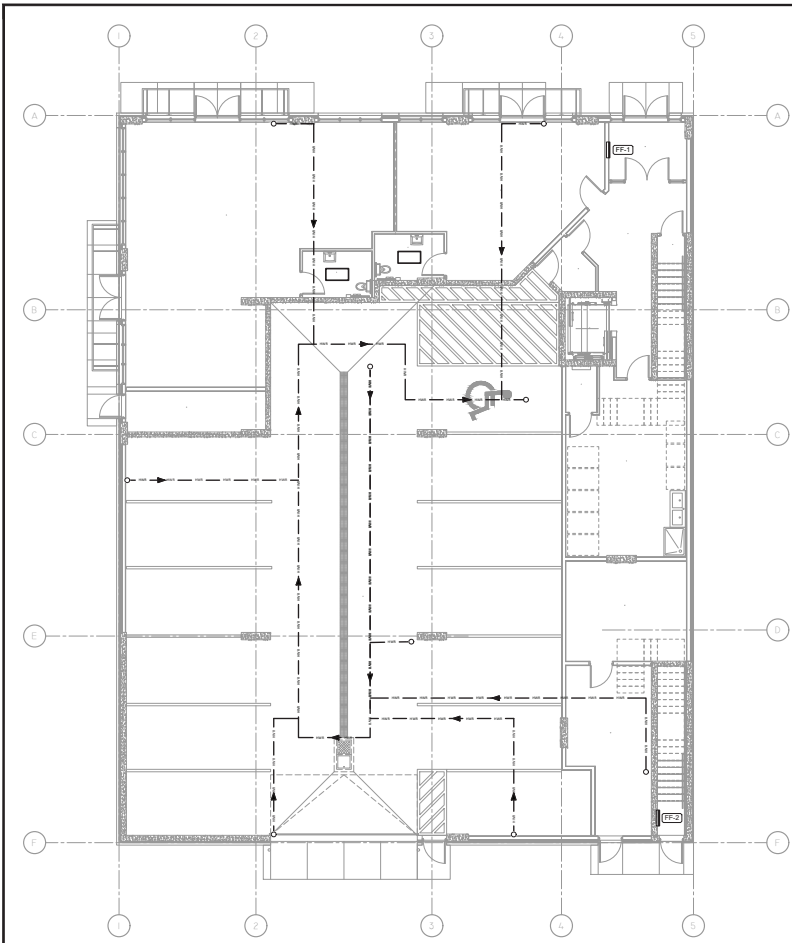
PLUMBING FIXTURE CONNECTION TABLE

| PLUMBING FIXTURE / DEVICES | DCW | DHW | SAN | VACUUM BREAKER |
|----------------------------------|-------|-------|--------|----------------|
| | (in.) | (in.) | (in.) | |
| LAV-1 - LAVATORY - COUNTER MOUNT | 1/2" | 1/2" | 1-1/2" | - |
| WC-1 - WATER CLOSET - FLUSH TANK | 1/2" | - | 3" | - |
| SK-1 - TWO-COMPARTMENT SINK | 1/2" | 1/2" | 2" | - |
| BATH-1 - BATH TUB | 1/2" | 1/2" | 2" | - |
| SHWR-1 - SHOWER | 1/2" | 1/2" | 2" | - |
| FD-1 - FLOOR DRAIN | - | - | 2" | - |
| AD-1 - AREA DRAIN | - | - | 3" | - |
| LNDRY-1 - SUITE LAUNDRY MACHINE | 1/2" | 1/2" | 2" | - |

ALL FIXTURE PIPE SIZES AND REQUIREMENTS FOR FOR VACUUM BREAKERS ARE GENERAL ONLY, AND ARE TO BE USED IF NOT SPECIFICALLY NOTED OTHERWISE. IN ADDITION, PROVIDE VACUUM BREAKERS AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.

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DWG REVISIONS: NO. 9 DATE: 01/20/2025 ENGINEER: D.O. DESCRIPTION:



1 PARKADE PLAN HEATING
SCALE: 1/8" = 1'-0"

HEATING GENERAL NOTES

- 1 ALL EQUIPMENT TO BE INSTALLED AS PER THE MANUFACTURERS SPECIFICATIONS AND RECOMMENDATIONS.
- 2 ALL MECHANICAL ITEMS ARE TO BE INSTALLED IN ACCORDANCE WITH THE LATEST VERSIONS OF THE NATIONAL BUILDING CODE, NATIONAL ENERGY CODE, SMACNA STANDARDS, LOCAL AUTHORITY CONSTRUCTION DESIGN STANDARDS, MUNICIPALITY BYLAWS, AND ALL OTHER APPLICABLE CODES AND STANDARDS.
- 3 COORDINATE ALL WORK WITH GENERAL CONTRACTOR AND OTHER TRADES (IN PARTICULAR ELECTRICAL).
- 4 ANY MODIFICATIONS REQUIRED AS A RESULT OF THE INSTALLATION OF AN HVAC UNIT THAT DIFFERS FROM THE EQUIPMENT SCHEDULES IN THE CONTRACT DOCUMENTS IS TO BE COORDINATED ON SITE BETWEEN THE MECHANICAL CONTRACTOR AND OTHER TRADES. FAILURE TO DO SO WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RESOLVE AT NO COST TO THE OWNER.
- 5 ALL TIMER SWITCHES, SPEED SWITCHES, STARTERS, ETC. TO BE BY ELECTRICAL. INTERLOCKS TO BE BY MECHANICAL. COORDINATE ALL CONTROLS WORK BETWEEN MECHANICAL AND ELECTRICAL.
- 6 CONFIRM DETAILS OF ALL SUPPORTS WITH STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION.
- 7 ALL HOT WATER SUPPLY AND RETURN PIPING TO MANIFOLDS TO BE RUN UP HIGH WITHIN CRAWLSPACE ALONG LINES OF MAIN FLOOR STRUCTURE. PIPING TO BE A REVERSE RETURN SYSTEM AS SHOWN.
- 8 ALL HEATING SYSTEM LOW POINT TO BE COMPLETE WITH VALVED 1/2" DRAINS.
- 9 ALL HEATING SYSTEM HIGH POINTS TO BE VENTED.
- 10 COMPLETE SYSTEM TO BE CLEANED, DEGREASED, AND TREATED AS PER SPEC.
- 11 SEAL AROUND ALL PIPING PASSING THROUGH FIRE RATED ASSEMBLIES WITH FIRE RATED CASING.
- 12 CONTRACTOR MUST CONTACT THE LOCAL INSPECTOR WITH THE BOILER AND PRESSURE VESSEL SAFETY DEPARTMENT AND SUBMIT A BOILER INSTALLATION PERMIT AS REQUIRED. CONTRACTOR TO BE RESPONSIBLE FOR ALL REGISTRATION AND INSPECTION FEES AS REQUIRED BY THE BOILER AND PRESSURE VESSEL SAFETY DEPARTMENT.
- 13 PROVIDE ISOLATION VALVES ON HOT WATER HEATING SUPPLY AND RETURN LINES TO ALL RADIATION CABINETS, HEATING COILS, EQUIPMENT, AND OTHER LOCATIONS NOTED ON DRAWINGS AND SCHEMATICS.

HEATING KEYNOTES

1

MECHANICAL CONSULTANT:

PS. Engineering Inc
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306 Sauer Rise, Saskatoon, SK. S7W 0J9
Contact: Odner
Phone : (306) 715-6788
Email : odner@pseng.ca
PROJECT NO: 245-039

PROFESSIONAL SEAL:

PRELIMINARY

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CLIENT:
JAMES ZIMMER ARCHITECT

PROJECT:
PROPOSED SIX STORY APARTMENT WITH RETAIL

1202 COLLEGE DRIVE,
SASKATOON, SASKATCHEWAN

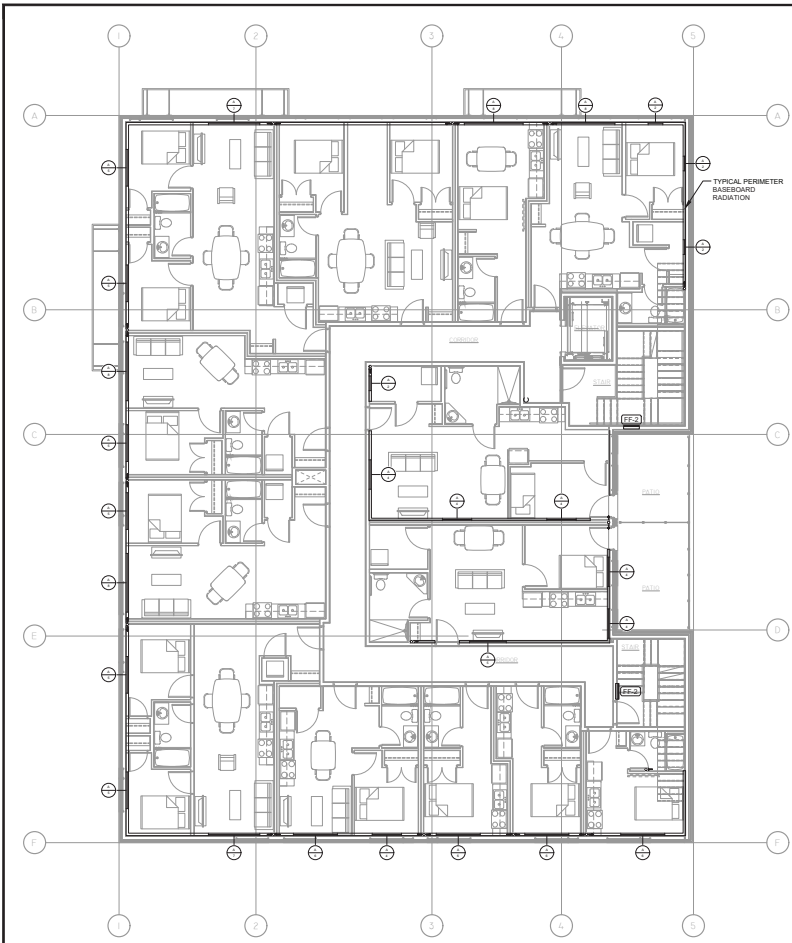
DRAWING TITLE:
PARKADE PLAN HEATING

PROJECT: 245-039
DATE: 01/09/2025
SCALE: AS NOTED
DRAWN: LR
CHECKED: D.O.

DRAWING NUMBER:
M3.1
REV: 0

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DWG REVISIONS: NO. 9 DATE: 01/09/2025 ENGINEER: D.O. DESCRIPTION:



1 SECOND FLOOR PLAN HEATING
SCALE: 1/8" = 1'-0"

HEATING GENERAL NOTES

- 1 ALL EQUIPMENT TO BE INSTALLED AS PER THE MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
- 2 ALL MECHANICAL ITEMS ARE TO BE INSTALLED IN ACCORDANCE WITH THE LATEST VERSIONS OF THE NATIONAL BUILDING CODE, NATIONAL ENERGY CODE, SMACNA STANDARDS, LOCAL AUTHORITY CONSTRUCTION DESIGN STANDARDS, MUNICIPALITY BYLAWS, AND ALL OTHER APPLICABLE CODES AND STANDARDS.
- 3 COORDINATE ALL WORK WITH GENERAL CONTRACTOR AND OTHER TRADES (IN PARTICULAR ELECTRICAL).
- 4 ANY MODIFICATIONS REQUIRED AS A RESULT OF THE INSTALLATION OF AN HVAC UNIT THAT DIFFERS FROM THE EQUIPMENT SCHEDULES IN THE CONTRACT DOCUMENTS IS TO BE COORDINATED ON SITE BETWEEN THE MECHANICAL CONTRACTOR AND OTHER TRADES. FAILURE TO DO SO WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RESOLVE AT NO COST TO THE OWNER.
- 5 ALL TIMER SWITCHES, SPEED SWITCHES, STARTERS, ETC. TO BE BY ELECTRICAL INTERLOCKS TO BE BY MECHANICAL CONTROLS SUBCONTRACTOR. COORDINATE ALL CONTROLS WORK BETWEEN MECHANICAL AND ELECTRICAL.
- 6 CONFIRM DETAILS OF ALL SUPPORTS WITH STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION.
- 7 ALL HOT WATER SUPPLY AND RETURN PIPING TO MANIFOLDS TO BE RUN UP HIGH WITHIN CRAWLSPACE ALONG USE OF MAIN FLOOR STRUCTURE. PIPING TO BE A REVERSE RETURN SYSTEM AS SHOWN.
- 8 ALL HEATING SYSTEM LOW POINT TO BE COMPLETE WITH VALVED 1/2" DRAINS.
- 9 ALL HEATING SYSTEM HIGH POINTS TO BE VENTED.
- 10 COMPLETE SYSTEM TO BE CLEANED, DEGREASED, AND TREATED AS PER SPEC.
- 11 SEAL AROUND ALL PIPING PASSING THROUGH FIRE RATED ASSEMBLIES WITH FIRE RATED CALGONG.
- 12 CONTRACTOR MUST CONTACT THE LOCAL INSPECTOR WITH THE BOILER AND PRESSURE VESSEL SAFETY DEPARTMENT AND SUBMIT A BOILER INSTALLATION PERMIT AS REQUIRED. CONTRACTOR TO BE RESPONSIBLE FOR ALL REGISTRATION AND INSPECTION FEES AS REQUIRED BY THE BOILER AND PRESSURE VESSEL SAFETY DEPARTMENT.
- 13 PROVIDE ISOLATION VALVES ON HOT WATER HEATING SUPPLY AND RETURN LINES TO ALL RADIATION CABINETS, HEATING COILS, EQUIPMENT AND OTHER LOCATIONS NOTED ON DRAWINGS AND SCHEMATICS.

HEATING KEYNOTES

1

MECHANICAL CONSULTANT:

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Mechanical Consulting Engineers
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Contact: Odner
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PROJECT NO. 245-039

PROFESSIONAL SEAL:

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CLIENT:
JAMES ZIMMER ARCHITECT

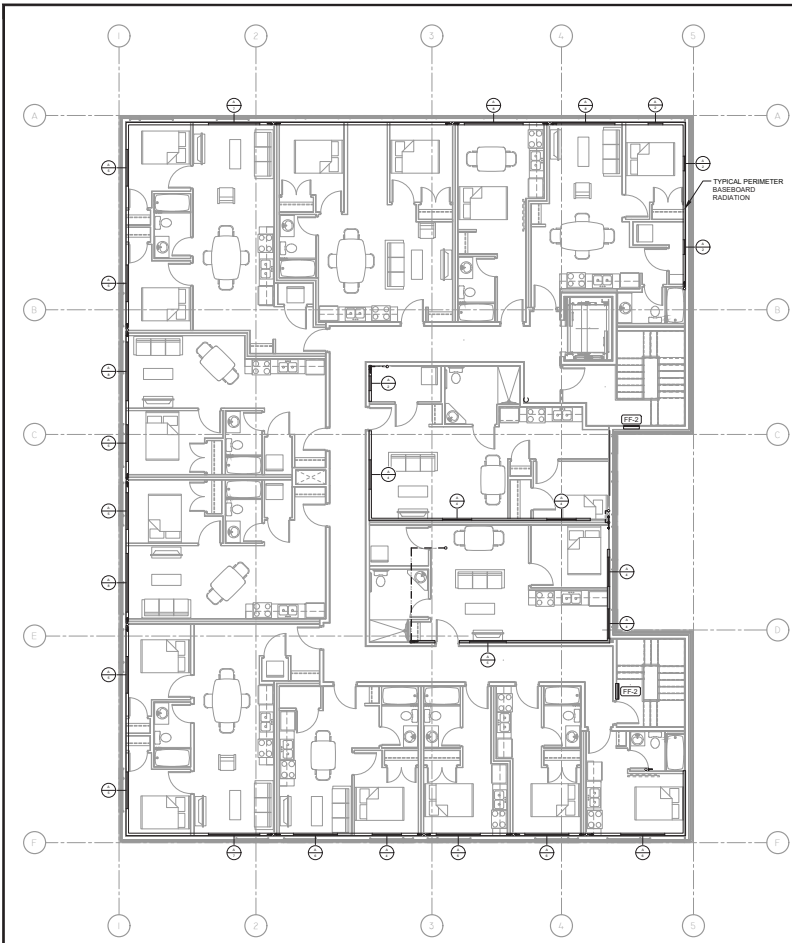
PROJECT:
PROPOSED SIX STORY APARTMENT WITH RETAIL
1202 COLLEGE DRIVE, SASKATOON, SASKATCHEWAN

DRAWING TITLE:
SECOND FLOOR PLAN HEATING

| | |
|------------------|-----------------|
| PROJECT: 245-039 | DRAWING NUMBER: |
| DATE: 01/09/2025 | M3.2 |
| SCALE: AS NOTED | |
| DRAWN: I.R. | |
| CHECKED: O.G. | REV# |

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| | | | | |
|----------------|-------|------------------|----------------|--------------|
| DWG REVISIONS: | NO. 9 | DATE: 01/09/2025 | ENGINEER: O.G. | DESCRIPTION: |
|----------------|-------|------------------|----------------|--------------|



1 THIRD FLOOR PLAN HEATING
SCALE: 1/8" = 1'-0"

HEATING GENERAL NOTES

- 1 ALL EQUIPMENT TO BE INSTALLED AS PER THE MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
- 2 ALL MECHANICAL ITEMS ARE TO BE INSTALLED IN ACCORDANCE WITH THE LATEST VERSIONS OF THE NATIONAL BUILDING CODE, NATIONAL ENERGY CODE, SMACNA STANDARDS, LOCAL AUTHORITY CONSTRUCTION DESIGN STANDARDS, MUNICIPALITY BYLAWS, AND ALL OTHER APPLICABLE CODES AND STANDARDS.
- 3 COORDINATE ALL WORK WITH GENERAL CONTRACTOR AND OTHER TRADES (IN PARTICULAR ELECTRICAL).
- 4 ANY MODIFICATIONS REQUIRED AS A RESULT OF THE INSTALLATION OF AN HVAC UNIT THAT DIFFERS FROM THE EQUIPMENT SCHEDULES IN THE CONTRACT DOCUMENTS IS TO BE COORDINATED ON SITE BETWEEN THE MECHANICAL CONTRACTOR AND OTHER TRADES. FAILURE TO DO SO WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RESOLVE AT NO COST TO THE OWNER.
- 5 ALL TIMER SWITCHES, SPEED SWITCHES, STARTERS, ETC. TO BE BY ELECTRICAL. INTERLOCKS TO BE BY MECHANICAL CONTROLS SUBCONTRACTOR. COORDINATE ALL CONTROLS WORK BETWEEN MECHANICAL AND ELECTRICAL.
- 6 CONFIRM DETAILS OF ALL SUPPORTS WITH STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION.
- 7 ALL HOT WATER SUPPLY AND RETURN PIPING TO MANIFOLDS TO BE RUN UP HIGH WITHIN CLOUSESPACE ALONG US OF MAIN FLOOR STRUCTURE. PIPING TO BE A REVERSE RETURN SYSTEM AS SHOWN.
- 8 ALL HEATING SYSTEM LOW POINT TO BE COMPLETE WITH VALVED 1/2" DRINS.
- 9 ALL HEATING SYSTEM HIGH POINTS TO BE VENTED.
- 10 COMPLETE SYSTEM TO BE CLEANED, DEGREASED, AND TREATED AS PER SPEC.
- 11 SEAL AROUND ALL PIPING PASSING THROUGH FIRE RATED ASSEMBLIES WITH FIRE RATED CAULKING.
- 12 CONTRACTOR MUST CONTACT THE LOCAL INSPECTOR WITH THE BOILER AND PRESSURE VESSEL SAFETY DEPARTMENT AND SUBMIT A BOILER INSTALLATION PERMIT AS REQUIRED. CONTRACTOR TO BE RESPONSIBLE FOR ALL REGISTRATION AND INSPECTION FEES AS REQUIRED BY THE BOILER AND PRESSURE VESSEL SAFETY DEPARTMENT.
- 13 PROVIDE ISOLATION VALVES ON HOT WATER HEATING SUPPLY AND RETURN LINES TO ALL RADIATION CABINETS, HEATING COILS, EQUIPMENT, AND OTHER LOCATIONS NOTED ON DRAWINGS AND SCHEMATICS.

HEATING KEYNOTES

1

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Mechanical Consulting Engineers
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PROJECT NO. 245-039

PROFESSIONAL SEAL:

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CLIENT:
JAMES ZIMMER ARCHITECT

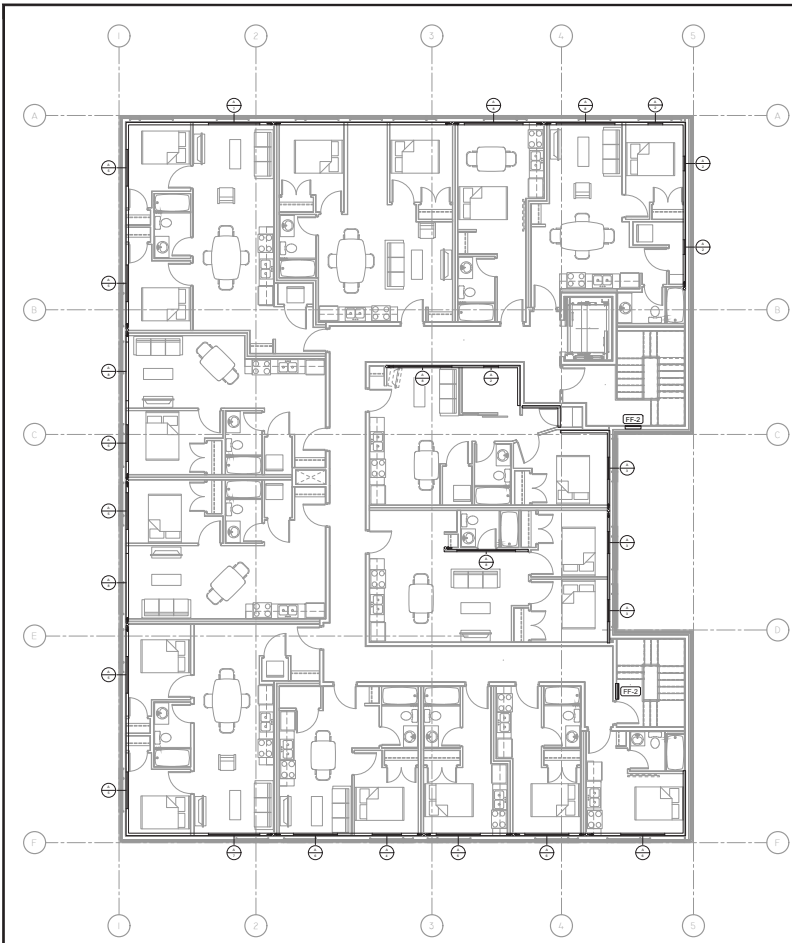
PROJECT:
PROPOSED SIX STORY APARTMENT WITH RETAIL
1202 COLLEGE DRIVE, SASKATOON, SASKATCHEWAN

DRAWING TITLE:
THIRD FLOOR PLAN HEATING

| | |
|------------------|-----------------|
| PROJECT: 245-039 | DRAWING NUMBER: |
| DATE: 01/09/2025 | M3.3 |
| SCALE: AS NOTED | |
| DRAWN: LR | |
| CHECKED: D.O. | REV# |

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| DWG REVISIONS: | NO. 9 | DATE: 01/09/2025 | ENGINEER: D.O. | DESCRIPTION: |
|----------------|-------|------------------|----------------|--------------|



1 FOURTH AND FIFTH FLOOR PLAN HEATING
M3.4 SCALE: 1/8" = 1'-0"

HEATING GENERAL NOTES

- 1 ALL EQUIPMENT TO BE INSTALLED AS PER THE MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
- 2 ALL MECHANICAL ITEMS ARE TO BE INSTALLED IN ACCORDANCE WITH THE LATEST VERSIONS OF THE NATIONAL BUILDING CODE, NATIONAL ENERGY CODE, SMACNA STANDARDS, LOCAL AUTHORITY CONSTRUCTION DESIGN STANDARDS, MUNICIPALITY BYLAWS, AND ALL OTHER APPLICABLE CODES AND STANDARDS.
- 3 COORDINATE ALL WORK WITH GENERAL CONTRACTOR AND OTHER TRADES (IN PARTICULAR ELECTRICAL).
- 4 ANY MODIFICATIONS REQUIRED AS A RESULT OF THE INSTALLATION OF AN HVAC UNIT THAT DIFFERS FROM THE EQUIPMENT SCHEDULES IN THE CONTRACT DOCUMENTS IS TO BE COORDINATED ON SITE BETWEEN THE MECHANICAL CONTRACTOR AND OTHER TRADES. FAILURE TO DO SO WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RESOLVE AT NO COST TO THE OWNER.
- 5 ALL TIMER SWITCHES, SPEED SWITCHES, STARTERS, ETC. TO BE BY ELECTRICAL. INTERLOCKS TO BE BY MECHANICAL CONTROLS SUBCONTRACTOR. COORDINATE ALL CONTROLS WORK BETWEEN MECHANICAL AND ELECTRICAL.
- 6 CONFIRM DETAILS OF ALL SUPPORTS WITH STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION.
- 7 ALL HOT WATER SUPPLY AND RETURN PIPING TO MANIFOLDS TO BE RUN UP HIGH WITHIN CROSSLAND ALONG US OF MAIN FLOOR STRUCTURE. PIPING TO BE A REVERSE RETURN SYSTEM AS SHOWN.
- 8 ALL HEATING SYSTEM LOW POINT TO BE COMPLETE WITH VALVED 1/2" DRAINS.
- 9 ALL HEATING SYSTEM HIGH POINTS TO BE VENTED.
- 10 COMPLETE SYSTEM TO BE CLEANED, DEGASED, AND TREATED AS PER SPEC.
- 11 SEAL AROUND ALL PIPING PASSING THROUGH FIRE RATED ASSEMBLIES WITH FIRE RATED CAULKING.
- 12 CONTRACTOR MUST CONTACT THE LOCAL INSPECTOR WITH THE BOILER AND PRESSURE VESSEL SAFETY DEPARTMENT AND SUBMIT A BOILER INSTALLATION PERMIT AS REQUIRED. CONTRACTOR TO BE RESPONSIBLE FOR ALL REGISTRATION AND INSPECTION FEES AS REQUIRED BY THE BOILER AND PRESSURE VESSEL SAFETY DEPARTMENT.
- 13 PROVIDE ISOLATION VALVES ON HOT WATER HEATING SUPPLY AND RETURN LINES TO ALL RADIATION CABINETS, HEATING COILS, EQUIPMENT, AND OTHER LOCATIONS NOTED ON DRAWINGS AND SCHEMATICS.

HEATING KEYNOTES

1

MECHANICAL CONSULTANT:

PS Engineering Inc
Mechanical Consulting Engineers
306 Sauer Rise, Saskatoon, SK, S7W 0J9
Contact: Odner
Phone : (306) 715-6788
Email : odner@pseng.ca
PROJECT NO. 245-039

PROFESSIONAL SEAL:

PRELIMINARY

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CLIENT:
JAMES ZIMMER ARCHITECT

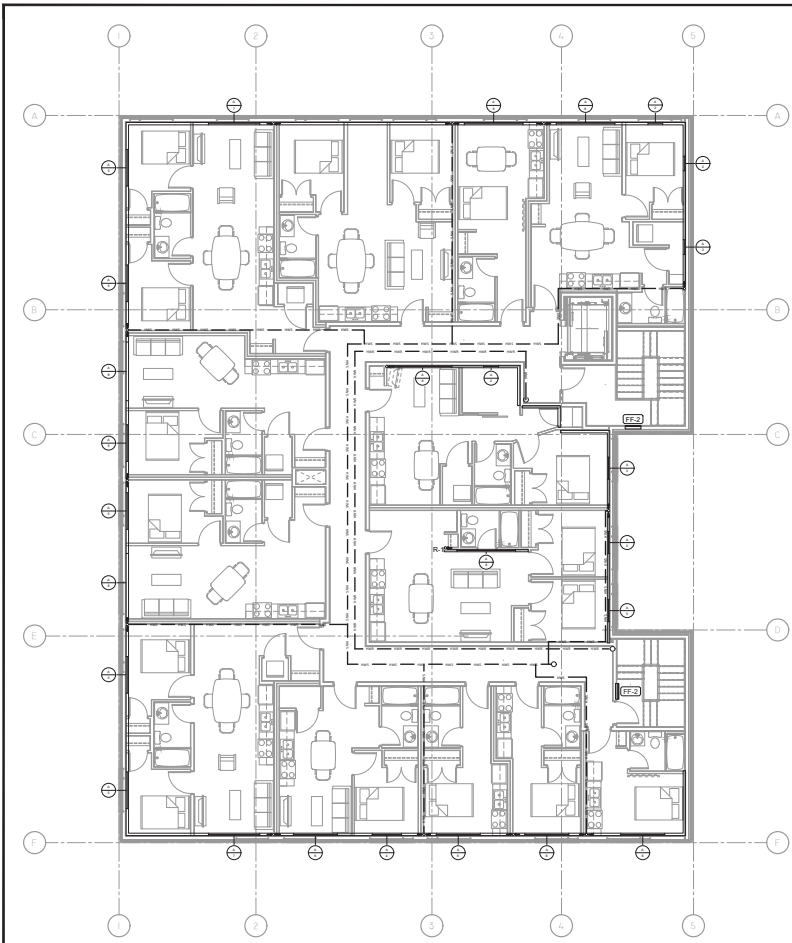
PROJECT:
PROPOSED SIX STORY APARTMENT WITH RETAIL
1202 COLLEGE DRIVE, SASKATOON, SASKATCHEWAN

DRAWING TITLE:
FOURTH & FIFTH FLOOR PLAN HEATING

| | |
|------------------|-----------------|
| PROJECT: 245-039 | DRAWING NUMBER: |
| DATE: 01/09/2025 | M3.4 |
| SCALE: AS NOTED | |
| DRAWN: LR | |
| CHECKED: D.G. | REV# |

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| DWG REVISIONS: | NO. 9 | DATE: 01/09/2025 | ENGINEER: D.G. | DESCRIPTION: |
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SIXTH FLOOR PLAN HEATING
SCALE: 1/8" = 1'-0"

HEATING GENERAL NOTES

- 1 ALL EQUIPMENT TO BE INSTALLED AS PER THE MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
- 2 ALL MECHANICAL ITEMS ARE TO BE INSTALLED IN ACCORDANCE WITH THE LATEST VERSIONS OF THE NATIONAL BUILDING CODE, NATIONAL ENERGY CODE, SMACNA STANDARDS, LOCAL AUTHORITY CONSTRUCTION DESIGN STANDARDS, MUNICIPALITY BYLAWS, AND ALL OTHER APPLICABLE CODES AND STANDARDS.
- 3 COORDINATE ALL WORK WITH GENERAL CONTRACTOR AND OTHER TRADES (IN PARTICULAR ELECTRICAL).
- 4 ANY MODIFICATIONS REQUIRED AS A RESULT OF THE INSTALLATION OF AN HVAC UNIT THAT DIFFERS FROM THE EQUIPMENT SCHEDULES IN THE CONTRACT DOCUMENTS IS TO BE COORDINATED ON SITE BETWEEN THE MECHANICAL CONTRACTOR AND OTHER TRADES. FAILURE TO DO SO WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RESOLVE AT NO COST TO THE OWNER.
- 5 ALL TIMER SWITCHES, SPEED SWITCHES, STARTERS, ETC. TO BE BY ELECTRICAL. INTERLOCKS TO BE BY MECHANICAL CONTROLS SUBCONTRACTOR. COORDINATE ALL CONTROLS WORK BETWEEN MECHANICAL AND ELECTRICAL.
- 6 CONFIRM DETAILS OF ALL SUPPORTS WITH STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION.
- 7 ALL HOT WATER SUPPLY AND RETURN PIPING TO MANIFOLDS TO BE RUN UP HIGH WITHIN CLOSER SPACE ALONG US OF MAIN FLOOR STRUCTURE. PIPING TO BE A REVERSE RETURN SYSTEM AS SHOWN.
- 8 ALL HEATING SYSTEM LOW POINT TO BE COMPLETE WITH VALVED 1/2" DRAINS.
- 9 ALL HEATING SYSTEM HIGH POINTS TO BE VENTED.
- 10 COMPLETE SYSTEM TO BE CLEANED, DEGASED, AND TREATED AS PER SPEC.
- 11 SEAL AROUND ALL PIPING PASSING THROUGH FIRE RATED ASSEMBLIES WITH FIRE RATED CAULKING.
- 12 CONTRACTOR MUST CONTACT THE LOCAL INSPECTOR WITH THE BOILER AND PRESSURE VESSEL SAFETY DEPARTMENT AND SUBMIT A BOILER INSTALLATION PERMIT AS REQUIRED. CONTRACTOR TO BE RESPONSIBLE FOR ALL REGISTRATION AND INSPECTION FEES AS REQUIRED BY THE BOILER AND PRESSURE VESSEL SAFETY DEPARTMENT.
- 13 PROVIDE ISOLATION VALVES ON HOT WATER HEATING SUPPLY AND RETURN LINES TO ALL BATHROOM CABINETS, HEATING COLLS, EQUIPMENT, AND OTHER LOCATIONS NOTED ON DRAWINGS AND SCHEMATICS.

HEATING KEYNOTES

1

MECHANICAL CONSULTANT:
PS. Engineering Inc
Mechanical Consulting Engineers
306 Sauer Rise, Saskatoon, SK. S7W 0J9
Contact: Odner
Phone : (306) 715-6788
Email : odner@pseng.ca
PROJECT NO. 245.039

PROFESSIONAL SEAL:

PRELIMINARY

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CLIENT:
JAMES ZIMMER ARCHITECT

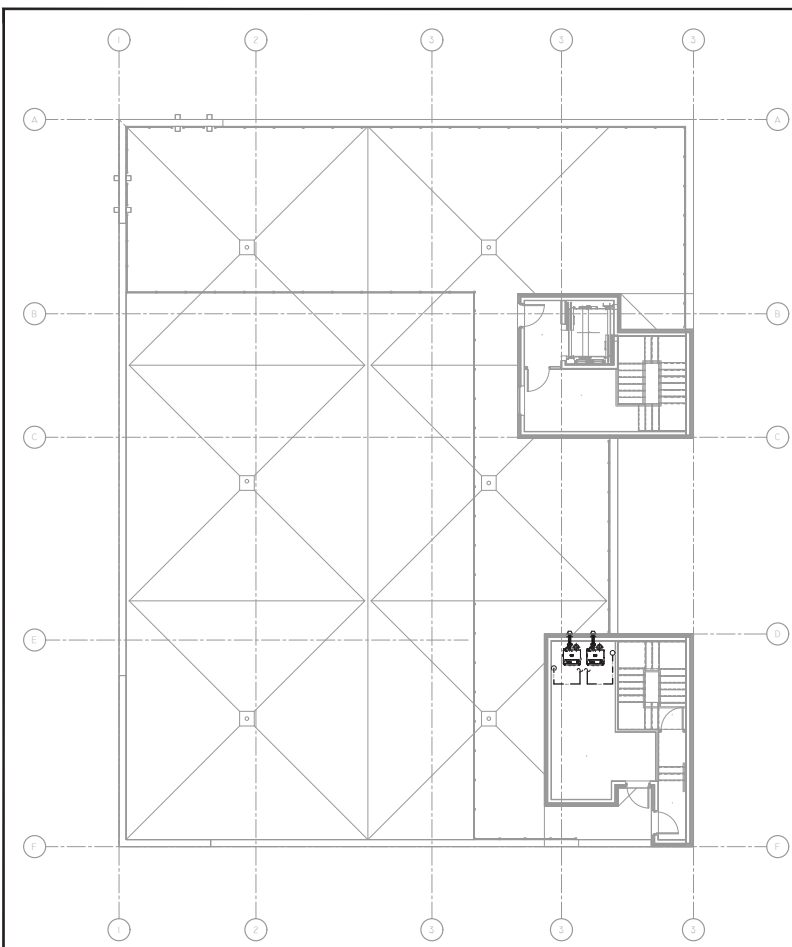
PROJECT:
PROPOSED SIX STORY APARTMENT WITH RETAIL
1202 COLLEGE DRIVE, SASKATOON, SASKATCHEWAN

DRAWING TITLE:
SIXTH FLOOR PLAN HEATING

| | |
|------------------|-----------------|
| PROJECT: 245.039 | DRAWING NUMBER: |
| DATE: 01/09/2025 | M3.5 |
| SCALE: AS NOTED | |
| DRAWN: LR | |
| CHECKED: D.G. | REV# |

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| DWG REVISIONS: | NO. 9 | DATE: 01/09/2025 | ENGINEER: D.G. | DESCRIPTION: |
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1 ROOF PLAN HEATING
SCALE: 1/8" = 1'-0"

HEATING GENERAL NOTES

- 1 ALL EQUIPMENT TO BE INSTALLED AS PER THE MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
- 2 ALL MECHANICAL ITEMS ARE TO BE INSTALLED IN ACCORDANCE WITH THE LATEST VERSIONS OF THE NATIONAL BUILDING CODE, NATIONAL ENERGY CODE, SMACNA STANDARDS, LOCAL AUTHORITY CONSTRUCTION DESIGN STANDARDS, MUNICIPALITY BYLAWS, AND ALL OTHER APPLICABLE CODES AND STANDARDS.
- 3 COORDINATE ALL WORK WITH GENERAL CONTRACTOR AND OTHER TRADES (IN PARTICULAR ELECTRICAL).
- 4 ANY MODIFICATIONS REQUIRED AS A RESULT OF THE INSTALLATION OF AN HVAC UNIT THAT DIFFERS FROM THE EQUIPMENT SCHEDULES IN THE CONTRACT DOCUMENTS IS TO BE COORDINATED ON SITE BETWEEN THE MECHANICAL CONTRACTOR AND OTHER TRADES. FAILURE TO DO SO WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RESOLVE AT NO COST TO THE OWNER.
- 5 ALL TIMER SWITCHES, SPEED SWITCHES, STARTERS, ETC. TO BE BY ELECTRICAL. INTERLOCKS TO BE BY MECHANICAL CONTROLS SUBCONTRACTOR. COORDINATE ALL CONTROLS WORK BETWEEN MECHANICAL AND ELECTRICAL.
- 6 CONFIRM DETAILS OF ALL SUPPORTS WITH STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION.
- 7 ALL HOT WATER SUPPLY AND RETURN PIPING TO MANIFOLDS TO BE RUN UP HIGH WITHIN CRAWLSPACE ALONG US OF MAIN FLOOR STRUCTURE. PIPING TO BE A REVERSE RETURN SYSTEM AS SHOWN.
- 8 ALL HEATING SYSTEM LOW POINT TO BE COMPLETE WITH VALVED 1/2" DRINS.
- 9 ALL HEATING SYSTEM HIGH POINTS TO BE VENTED.
- 10 COMPLETE SYSTEM TO BE CLEANED, DEGREASED, AND TREATED AS PER SPEC.
- 11 SEAL AROUND ALL PIPING PASSING THROUGH FIRE RATED ASSEMBLIES WITH FIRE RATED CAULKING.
- 12 CONTRACTOR MUST CONTACT THE LOCAL INSPECTOR WITH THE BOILER AND PRESSURE VESSEL SAFETY DEPARTMENT AND SUBMIT A BOILER INSTALLATION PERMIT AS REQUIRED. CONTRACTOR TO BE RESPONSIBLE FOR ALL REGISTRATION AND INSPECTION FEES AS REQUIRED BY THE BOILER AND PRESSURE VESSEL SAFETY DEPARTMENT.
- 13 PROVIDE ISOLATION VALVES ON HOT WATER HEATING SUPPLY AND RETURN LINES TO ALL RADIATION CABINETS, HEATING COILS, EQUIPMENT, AND OTHER LOCATIONS NOTED ON DRAWINGS AND SCHEMATICS.

HEATING KEYNOTES

1

MECHANICAL CONSULTANT:

PS Engineering Inc
Mechanical Consulting Engineers
306 Sauer Rise, Saskatoon, SK. S7W 0J9
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Phone : (306) 715-6788
Email : odner@pseng.ca
PROJECT NO. 245-039

PROFESSIONAL SEAL:

PRELIMINARY

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CLIENT:
JAMES ZIMMER ARCHITECT

PROJECT:
PROPOSED SIX STORY APARTMENT WITH RETAIL

1202 COLLEGE DRIVE,
SASKATOON, SASKATCHEWAN

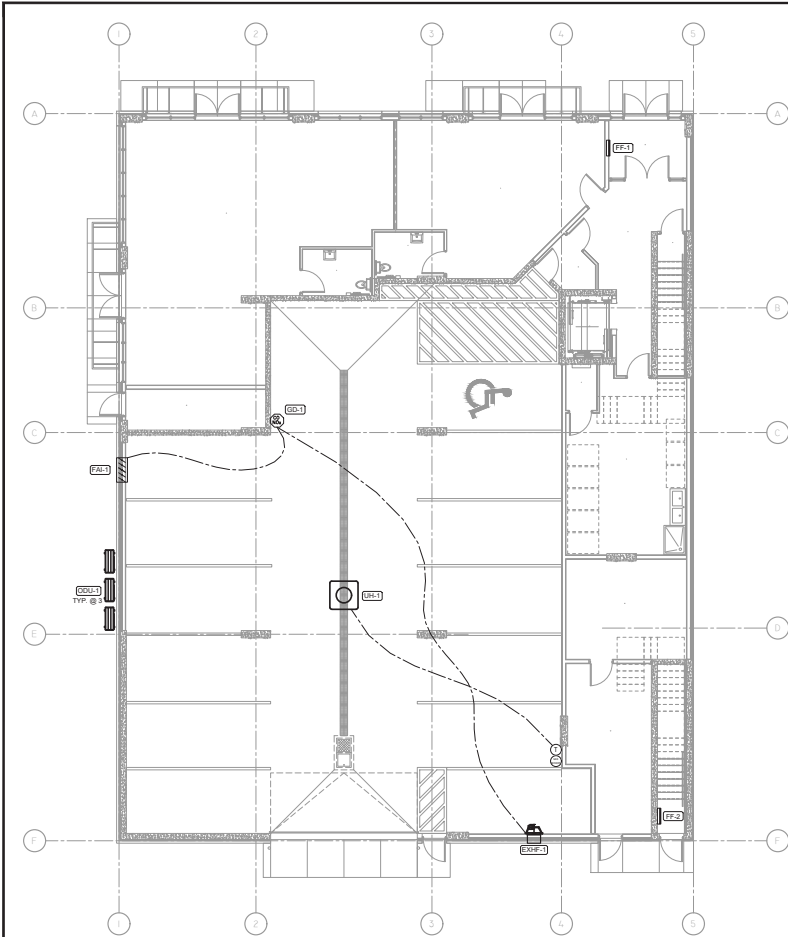
DRAWING TITLE:
ROOF PLAN HEATING

PROJECT: 245-039
DATE: 01/09/2025
SCALE: AS NOTED
DRAWN: LR
CHECKED: O.G.

DRAWING NUMBER:
M3.6

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| DWG REVISIONS | NO. 9 | DATE: 01/09/2025 | ENGINEER: O.G. | DESCRIPTION: |
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1 PARKADE PLAN HVAC
SCALE: 1/8" = 1'-0"

HVAC GENERAL NOTES

- 1 ALL DUCTWORK SHOWN SCHEMATICALLY AND IS A GENERAL GUIDELINE. ANY MAJOR DEVIATIONS FROM WHAT IS SHOWN IS TO BE APPROVED BY PE ENGINEERING.
- 2 ALL DUCT SIZES ARE NET SIZES. INCREASE DUCT SIZE WITH INTERNAL INSULATION AS REQUIRED TO MAINTAIN INDICATED DIMENSIONS.
- 3 ALL DUCT TAKE-OFFS TO BE 45° CONICAL WITH BALANCING DAMPERS.
- 4 DUCTING TO BE CONNECTED TO ALL HVAC AND FAN UNITS WITH CANVAS CONNECTIONS.
- 5 ALL MAIN SUPPLY/RETURN ELBOWS TO BE ENTERED WITH TURNING VANES. DUCT ELBOW RADII TO BE MINIMUM 1.5 TIMES THE TURNING DIMENSION UNLESS OTHERWISE NOTED.
- 6 COORDINATE ROUTING OF DUCTWORK IN CEILING WITH ELECTRICAL TO ENSURE ADEQUATE ACCESS TO ELECTRICAL SYSTEMS IS MAINTAINED AT THE HIGHEST POSSIBLE LEVEL.
- 7 INSULATE ALL DUCTWORK AS PER SPEC. INSULATION TO BE CANVAS WRAPPED IN FINISHED AREAS ONLY.
- 8 ENSURE ALL FLUE GAS AND EXHAUST OUTLETS ARE AT LEAST 3m (10ft) AWAY FROM THE NEAREST FRESH AIR INTAKE AND AT LEAST 1m (3ft) FROM BUILDING OPENINGS.
- 9 ALL EQUIPMENT TO BE INSTALLED AS PER THE MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
- 10 ALL MECHANICAL ITEMS ARE TO BE INSTALLED IN ACCORDANCE WITH THE LATEST VERSIONS OF THE NATIONAL BUILDING CODE, NATIONAL ENERGY CODE, SBACON STANDARDS, LOCAL AUTHORITY CONSTRUCTION DESIGN STANDARDS, MUNICIPALITY BYLAWS, AND ALL OTHER APPLICABLE CODES AND STANDARDS.
- 11 DUCTWORK WITHIN NEW HVAC UNIT SUPPLY AND RETURN PLENUMS SHALL BE LINED WITH 25mm (1") OF ACUSTIC INSULATION. INCREASE DUCT SIZE TO MAINTAIN INDICATED DIMENSIONS.
- 12 ALL DUCTING TO BE FIRE DAMPERED AT ALL FIRE SEPARATIONS COMPLETE WITH QUICK CLOSE HINGED ACCESS DOORS FOR MAINTENANCE OF FUIBLE LINK.
- 13 CONTRACTOR TO CHANGE ALL UNIT FILTERS ON BUILDING HANDOVER/COMPLETION AND PROVIDE 1 SET OF SPARE FILTERS FOR EACH PIECE OF EQUIPMENT TO OWNERS TO BE STORED ON SITE.
- 14 COORDINATE ALL WORK WITH GENERAL CONTRACTOR AND OTHER TRADES (IN PARTICULAR ELECTRICAL).
- 15 MECHANICAL CONTRACTOR SHALL COORDINATE EXACT DUCT ROUTING ON SITE WITH FINAL GIST LAYOUT AND ADVISE PE ENGINEERING OF ANY ISSUES PRIOR TO HANGING DUCTWORK. ANY DUCTWORK REMOVAL/MODIFICATION REQUIRED WITHOUT PRIOR NOTIFICATION WILL BE COMPLETED AT NO COST TO THE OWNER.
- 16 ANY MODIFICATIONS REQUIRED AS A RESULT OF THE INSTALLATION OF AN HVAC UNIT THAT DIFFERS FROM THE EQUIPMENT SCHEDULES IN THE CONTRACT DOCUMENTS IS TO BE COORDINATED ON SITE BETWEEN THE MECHANICAL CONTRACTOR AND OTHER TRADES. FAILURE TO DO SO WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RESOLVE AT NO COST TO THE OWNER.
- 17 PIPE ALL CONDENSATE DRAINS INDIRECTLY TO NEAREST FLOORPIPE DRAIN UNLESS OTHERWISE NOTED.
- 18 ALL DUCTING IN AREAS WITH FINISHED CEILINGS TO BE INSTALLED CONCEALED WITHIN CEILING SPACE IN A GOOD WORKMANSHIP LIKE MANNER AS PER SBACNA STANDARDS. ALL DUCTWORK IN AREAS WITH NO CEILINGS TO BE SPIRAL ROUND EXPOSED UNLESS OTHERWISE NOTED.
- 19 ALL INTERLOCKS, TIMER SWITCHES, SPEED SWITCHES, ETC. TO BE BY ELECTRICAL.
- 20 CONFIRM DETAILS OF ALL SUPPORTS WITH STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION.
- 21 ALL EXTERIOR WALL / ROOF PENETRATIONS TO BE SEALED WEATHER / AIR TIGHT.

HVAC KEYNOTES

1

BRANCH DUCT SIZING

| AIRFLOW (CFM) | BRANCH SIZE (INCH) |
|---------------|--------------------|
| 0-20 | 6 (125) |
| 80-120 | 6 (150) |
| 121-230 | 8 (200) |
| 231-400 | 10 (250) |

MECHANICAL CONSULTANT:

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PROJECT NO: 245-038

PROFESSIONAL SEAL:

PRELIMINARY

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CLIENT:
JAMES ZIMMER ARCHITECT

PROJECT:
PROPOSED SIX STORY APARTMENT WITH RETAIL

1202 COLLEGE DRIVE
SASKATOON, SASKATCHEWAN

DRAWING TITLE:
PARKADE PLAN HVAC

| | |
|------------------|-----------------|
| PROJECT: 245-038 | DRAWING NUMBER: |
| DATE: 01/09/2025 | M4.1 |
| SCALE: AS NOTED | |
| DRAWN: LR | |
| CHECKED: O.G. | REV#: |

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| DWG REVISIONS | NO. | DATE | ENGINEER | DESCRIPTION |
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1 SECOND FLOOR PLAN HVAC
SCALE: 1/8" = 1'-0"

HVAC GENERAL NOTES

- 1 ALL DUCTING SHOWN SCHEMATICALLY AND IS A GENERAL GUIDELINE. ANY MAJOR DEVIATIONS FROM WHAT IS SHOWN IS TO BE APPROVED BY P.S. ENGINEERING.
- 2 ALL DUCT SIZES ARE NET SIZES. INCREASE DUCT SIZE WITH INTERNAL INSULATION AS REQUIRED TO MAINTAIN INDICATED DIMENSIONS.
- 3 ALL DUCT TAKE-OFFS TO BE 45° CONICAL WITH BALANCING DAMPERS.
- 4 DUCTING TO BE CONNECTED TO ALL HVAC AND FAN UNITS WITH CANVAS CONNECTIONS.
- 5 ALL MAIN SUPPLY RETURN ELBOWS TO BE MITERED WITH TURNING VANES. DUCT ELBOW RADI TO BE MINIMUM 1.5 TIMES THE TURNING DIMENSION UNLESS OTHERWISE NOTED.
- 6 COORDINATE ROUTING OF DUCTWORK IN CEILING WITH ELECTRICAL TO ENSURE ADEQUATE ACCESS TO ELECTRICAL SYSTEMS IS MAINTAINED AT THE HIGHEST POSSIBLE LEVEL.
- 7 INSULATE ALL DUCTWORK AS PER SPEC. INSULATION TO BE CANVAS WRAPPED IN FINISHED AREAS ONLY.
- 8 ENSURE ALL FLUE GAS AND EXHAUST OUTLETS ARE AT LEAST 3m (10ft) AWAY FROM THE NEAREST FRESH AIR INTAKE AND AT LEAST 1m (3ft) FROM BUILDING OPENINGS.
- 9 ALL EQUIPMENT TO BE INSTALLED AS PER THE MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
- 10 ALL MECHANICAL ITEMS ARE TO BE INSTALLED IN ACCORDANCE WITH THE LATEST VERSIONS OF THE NATIONAL BUILDING CODE, NATIONAL ENERGY CODE, SMACNA STANDARDS, LOCAL AUTHORITY CONSTRUCTION DESIGN STANDARDS, MUNICIPALITY BYLAWS, AND ALL OTHER APPLICABLE CODES AND STANDARDS.
- 11 DUCTWORK WITHIN NEW HVAC UNIT SUPPLY AND RETURN PLENUMS SHALL BE LINED WITH 25mm (1") OF ACOUSTIC INSULATION. INCREASE DUCT SIZE TO MAINTAIN INDICATED DIMENSIONS.
- 12 ALL DUCTING TO BE FIRE DAMPERED AT ALL FIRE SEPARATIONS COMPLETE WITH QUICK-CLOSE HINGED ACCESS DOORS FOR MAINTENANCE OF FUSIBLE LINK.
- 13 CONTRACTOR TO CHANGE ALL UNIT FILTERS ON BUILDING HANDOVER/COMPLETION AND PROVIDE 1 SET OF SPARE FILTERS FOR EACH PIECE OF EQUIPMENT TO OWNERS TO BE STORED ON SITE.
- 14 COORDINATE ALL WORK WITH GENERAL CONTRACTOR AND OTHER TRADES (IN PARTICULAR ELECTRICAL).
- 15 MECHANICAL CONTRACTOR SHALL COORDINATE EXACT DUCT ROUTING ON SITE WITH FINAL JOIST LAYOUT AND ADVISE P.S. ENGINEERING OF ANY ISSUES PRIOR TO HANGING DUCTWORK. ANY DUCTWORK REMOVAL/ADJUSTMENT REQUIRED WITHOUT PRIOR NOTIFICATION WILL BE COMPLETED AT NO COST TO THE OWNER.
- 16 ANY MODIFICATIONS REQUIRED AS A RESULT OF THE INSTALLATION OF AN HVAC UNIT THAT DIFFERS FROM THE EQUIPMENT SCHEDULES IN THE CONTRACT DOCUMENTS IS TO BE COORDINATED ON SITE BETWEEN THE MECHANICAL CONTRACTOR AND OTHER TRADES. FAILURE TO DO SO WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RESOLVE AT NO COST TO THE OWNER.
- 17 PIPE ALL CONDENSATE DRAINS INDIRECTLY TO NEAREST FLOORPIPE DRAIN UNLESS OTHERWISE NOTED.
- 18 ALL DUCTING IN AREAS WITH FINISHED CEILINGS TO BE INSTALLED CONCEALED WITHIN CEILING SPACE IN A GOOD WORKMANSHIP LINE MANNER AS PER SMACNA STANDARDS. ALL DUCTWORK IN AREAS WITH NO CEILINGS TO BE SPIRAL ROUND EXPOSED UNLESS OTHERWISE NOTED.
- 19 ALL INTERLOCKS, TIMER SWITCHES, SPEED SWITCHES, ETC. TO BE BY ELECTRICAL.
- 20 CONFIRM DETAILS OF ALL SUPPORTS WITH STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION.
- 21 ALL EXTERIOR WALL / ROOF PENETRATIONS TO BE SEALED WEATHER / AIR TIGHT.

| BRANCH DUCT SIZING | |
|--------------------|--------------------|
| AIR FLOW (CFM) | BRANCH SIZE (INCH) |
| 5-40 | 6 (1/2) |
| 60-120 | 8 (2/0) |
| 121-230 | 8 (2/0) |
| 231-400 | 10 (2/50) |

HVAC KEYNOTES

1

MECHANICAL CONSULTANT:

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306 Sauer Rise, Saskatoon, SK, S7W 0J9
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Email : odhner@pseng.ca
PROJECT NO. 245-039

PROFESSIONAL SEAL:

PRELIMINARY

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CLIENT:
JAMES ZIMMER ARCHITECT

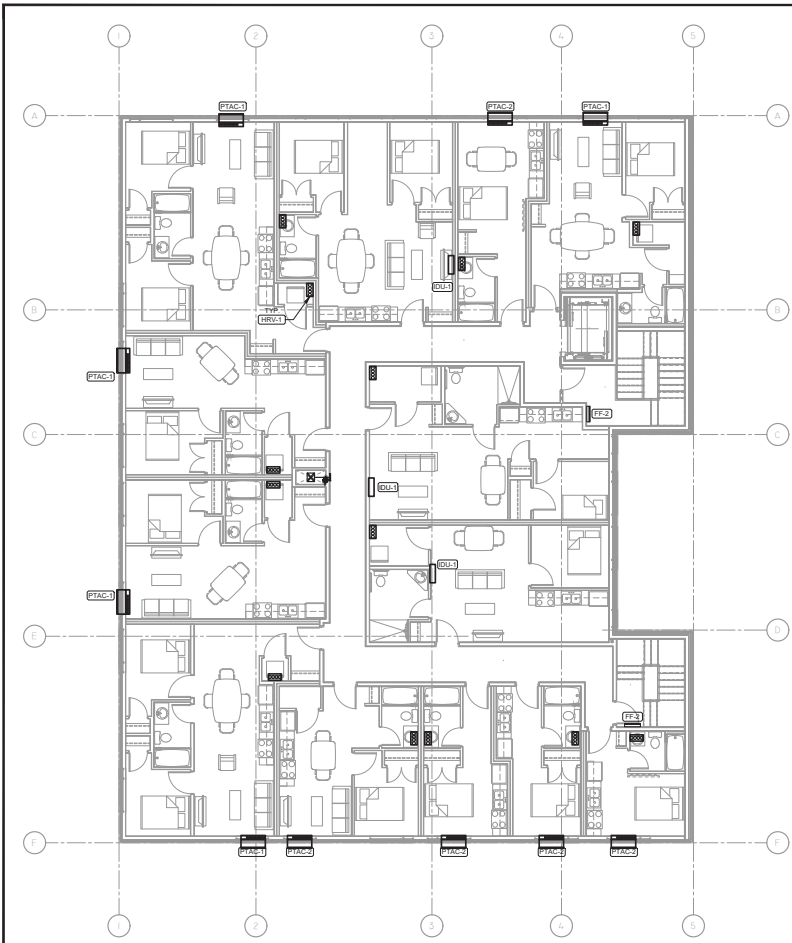
PROJECT:
PROPOSED SIX STORY APARTMENT WITH RETAIL
1202 COLLEGE DRIVE, SASKATOON, SASKATCHEWAN

DRAWING TITLE:
SECOND FLOOR PLAN HVAC

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| PROJECT: 245-039 | DRAWING NUMBER: |
| DATE: 01/09/2025 | M4.2 |
| SCALE: AS NOTED | |
| DRAWN: I.R. | |
| CHECKED: D.O. | REV# |

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| DWG REVISIONS: | NO. 9 | DATE: 01/09/2025 | ENGINEER: D.O. | DESCRIPTION: |
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1 THIRD FLOOR PLAN HVAC
SCALE: 1/8" = 1'-0"

HVAC GENERAL NOTES

- 1 ALL DUCTING SHOWN SCHEMATICALLY AND IS A GENERAL GUIDELINE. ANY MAJOR DEVIATIONS FROM WHAT IS SHOWN IS TO BE APPROVED BY P.S. ENGINEERING.
- 2 ALL DUCT SIZES ARE NET SIZES. INCREASE DUCT SIZE WITH INTERNAL INSULATION AS REQUIRED TO MAINTAIN INDICATED DIMENSIONS.
- 3 ALL DUCT TAKE-OFFS TO BE 90° CORNERS WITH BALANCING DAMPERS.
- 4 DUCTING TO BE CONNECTED TO ALL HVAC AND FAN UNITS WITH CANVAS CONNECTIONS.
- 5 ALL MAIN SUPPLY RETURN ELBOWS TO BE MITERED WITH TURNING VANES. DUCT ELBOW RADI TO BE MINIMUM 1.5 TIMES THE TURNING DIMENSION UNLESS OTHERWISE NOTED.
- 6 COORDINATE ROUTING OF DUCTWORK IN CEILING WITH ELECTRICAL TO ENSURE ADEQUATE ACCESS TO ELECTRICAL SYSTEMS IS MAINTAINED AT THE HIGHEST POSSIBLE LEVEL.
- 7 INSULATE ALL DUCTWORK AS PER SPEC. INSULATION TO BE CANVAS WRAPPED IN FINISHED AREAS ONLY.
- 8 ENSURE ALL FLUE GAS AND EXHAUST OUTLETS ARE AT LEAST 3m (10ft) AWAY FROM THE NEAREST FRESH AIR INTAKE AND AT LEAST 1m (3ft) FROM BUILDING OPENINGS.
- 9 ALL EQUIPMENT TO BE INSTALLED AS PER THE MANUFACTURERS SPECIFICATIONS AND RECOMMENDATIONS.
- 10 ALL MECHANICAL ITEMS ARE TO BE INSTALLED IN ACCORDANCE WITH THE LATEST VERSIONS OF THE NATIONAL BUILDING CODE, NATIONAL ENERGY CODE, SMACNA STANDARDS, LOCAL AUTHORITY CONSTRUCTION DESIGN STANDARDS, MUNICIPALITY BYLAWS, AND ALL OTHER APPLICABLE CODES AND STANDARDS.
- 11 DUCTWORK WITHIN NEW HVAC UNIT SUPPLY AND RETURN PLENUMS SHALL BE LINED WITH 25mm (1") OF ACUSTIC INSULATION. INCREASE DUCT SIZE TO MAINTAIN INDICATED DIMENSIONS.
- 12 ALL DUCTING TO BE FIRE DAMPERED AT ALL FIRE SEPARATIONS COMPLETE WITH QUICK CLOSE HINGED ACCESS DOORS FOR MAINTENANCE OF FUSIBLE LINK.
- 13 CONTRACTOR TO CHANGE ALL LINT FILTERS ON BUILDING HANDOVER/COMPLETION AND PROVIDE 1 SET OF SPARE FILTERS FOR EACH PIECE OF EQUIPMENT TO OWNERS TO BE STORED ON SITE.
- 14 COORDINATE ALL WORK WITH GENERAL CONTRACTOR AND OTHER TRADES (IN PARTICULAR ELECTRICAL).
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- 20 CONFIRM DETAILS OF ALL SUPPORTS WITH STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION.
- 21 ALL EXTERIOR WALL / ROOF PENETRATIONS TO BE SEALED WEATHER / AIR TIGHT.

| BRANCH DUCT SIZING | |
|--------------------|--------------------|
| AIR FLOW (CFM) | BRANCH SIZE (INCH) |
| 0-40 | 6 (1/2) |
| 60-120 | 8 (2/0) |
| 121-230 | 10 (2/0) |
| 231-400 | 12 (2/0) |

HVAC KEYNOTES

1

MECHANICAL CONSULTANT:
PS. Engineering Inc
Mechanical Consulting Engineers
306 Sauer Rise, Saskatoon, SK. S7W 0J9
Contact: Odhner
Phone : (306) 715-6788
Email : odhner@pseng.ca
PROJECT NO. 245-039

PROFESSIONAL SEAL:
PRELIMINARY

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CLIENT:
JAMES ZIMMER ARCHITECT

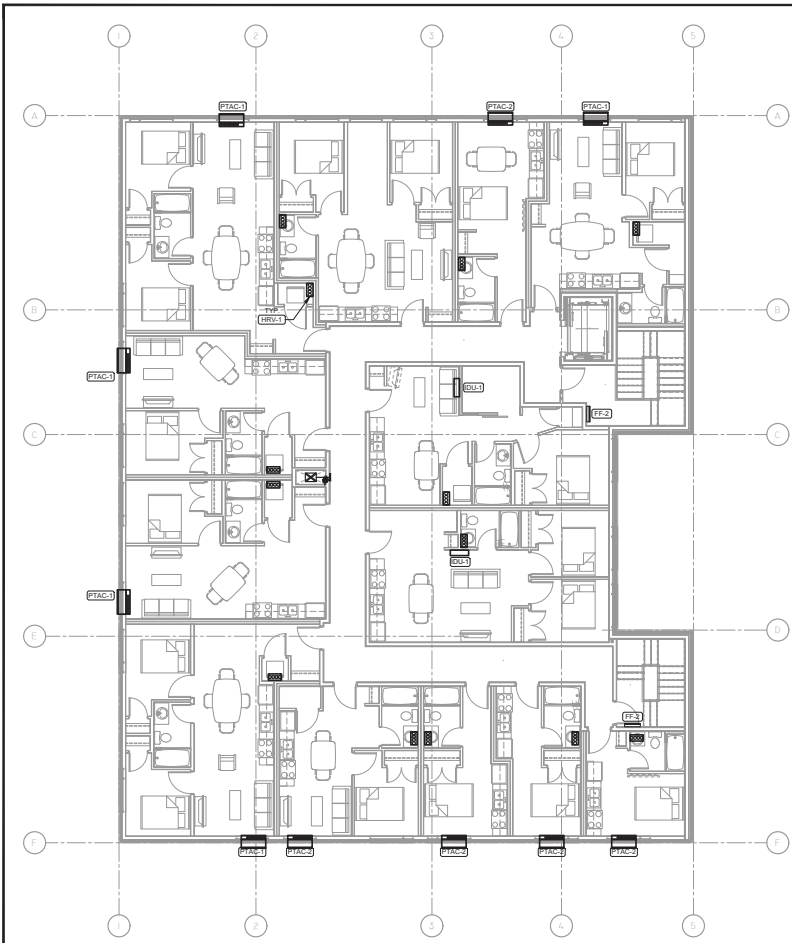
PROJECT:
PROPOSED SIX STORY APARTMENT WITH RETAIL
1202 COLLEGE DRIVE, SASKATOON, SASKATCHEWAN

DRAWING TITLE:
THIRD FLOOR PLAN HVAC

| | |
|------------------|-----------------|
| PROJECT: 245-039 | DRAWING NUMBER: |
| DATE: 01/01/2025 | M4.3 |
| SCALE: AS NOTED | |
| DRAWN: LR | |
| CHECKED: O.G. | REV#: |

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| | | | | |
|----------------|-------|------------------|----------------|--------------|
| DWG REVISIONS: | NO. 9 | DATE: 01/02/2025 | ENGINEER: O.G. | DESCRIPTION: |
|----------------|-------|------------------|----------------|--------------|



1 FOURTH FLOOR PLAN HVAC
SCALE: 1/8" = 1'-0"

HVAC GENERAL NOTES

- 1 ALL DUCTING SHOWN SCHEMATICALLY AND IS A GENERAL GUIDELINE. ANY MAJOR DEVIATIONS FROM WHAT IS SHOWN IS TO BE APPROVED BY P.S. ENGINEERING.
- 2 ALL DUCT SIZES ARE NET SIZES. INCREASE DUCT SIZE WITH INTERNAL INSULATION AS REQUIRED TO MAINTAIN INDICATED DIMENSIONS.
- 3 ALL DUCT TAKE-OFFS TO BE 45° CONICAL WITH BALANCING DAMPERS.
- 4 DUCTING TO BE CONNECTED TO ALL HVAC AND FAN UNITS WITH CANVAS CONNECTIONS.
- 5 ALL MAIN SUPPLY RETURN ELBOWS TO BE MITERED WITH TURNING VANES. DUCT ELBOW RADI TO BE MINIMUM 1.5 TIMES THE TURNING DIMENSION UNLESS OTHERWISE NOTED.
- 6 COORDINATE ROUTING OF DUCTWORK IN CEILING WITH ELECTRICAL TO ENSURE ADEQUATE ACCESS TO ELECTRICAL SYSTEMS IS MAINTAINED AT THE HIGHEST POSSIBLE LEVEL.
- 7 INSULATE ALL DUCTWORK AS PER SPEC. INSULATION TO BE CANVAS WRAPPED IN FINISHED AREAS ONLY.
- 8 ENSURE ALL FLUE GAS AND EXHAUST OUTLETS ARE AT LEAST 3m (10ft) AWAY FROM THE NEAREST FRESH AIR INTAKE AND AT LEAST 1m (3ft) FROM BUILDING OPENINGS.
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BRANCH DUCT SIZING

| AIR FLOW (CFM) | BRANCH SIZE (INCH) |
|----------------|--------------------|
| 0-40 | 6 (1/2) |
| 60-100 | 8 (200) |
| 121-200 | 10 (250) |
| 231-400 | |

HVAC KEYNOTES

1

MECHANICAL CONSULTANT:
PS. Engineering Inc
Mechanical Consulting Engineers
306 Sauer Rise, Saskatoon, SK. S7W 0J9
Contact: Odner
Phone : (306) 715-6788
Email : odner@pseng.ca
PROJECT NO. 245-039

PROFESSIONAL SEAL:
PRELIMINARY

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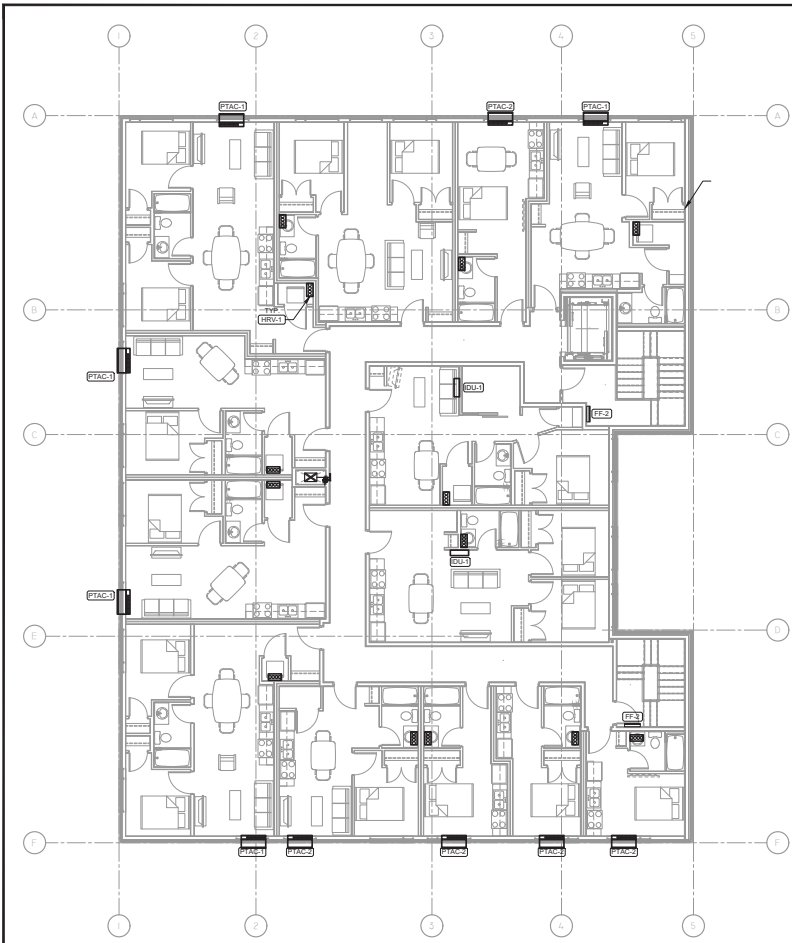
PROJECT:
PROPOSED SIX STORY APARTMENT WITH RETAIL
1202 COLLEGE DRIVE, SASKATOON, SASKATCHEWAN

DRAWING TITLE:
FOURTH FLOOR PLAN HVAC

| | |
|------------------|-----------------|
| PROJECT: 245-039 | DRAWING NUMBER: |
| DATE: 01/09/2025 | M4.4 |
| SCALE: AS NOTED | |
| DRAWN: LR | |
| CHECKED: O.G. | REV# |

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|----------------|-------|------------------|----------------|--------------|
| DWG REVISIONS: | NO. 9 | DATE: 01/09/2025 | ENGINEER: O.G. | DESCRIPTION: |
|----------------|-------|------------------|----------------|--------------|



FIFTH FLOOR PLAN HVAC
SCALE: 1/8" = 1'-0"

HVAC GENERAL NOTES

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HVAC KEYNOTES

1

| BRANCH DUCT SIZING | |
|--------------------|--------------------|
| AIR FLOW (CFM) | BRANCH SIZE (INCH) |
| 0-40 | 6 (1/2) |
| 60-120 | 8 (1/2) |
| 121-230 | 8 (2/0) |
| 231-400 | 10 (2/0) |

MECHANICAL CONSULTANT:
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Mechanical Consulting Engineers
306 Sauer Rise, Saskatoon, SK, S7W 0J9
Contact: Odner
Phone : (306) 715-6788
Email : odner@pseng.ca
PROJECT NO: 245-039

PROFESSIONAL SEAL:
PRELIMINARY

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CLIENT:
JAMES ZIMMER ARCHITECT

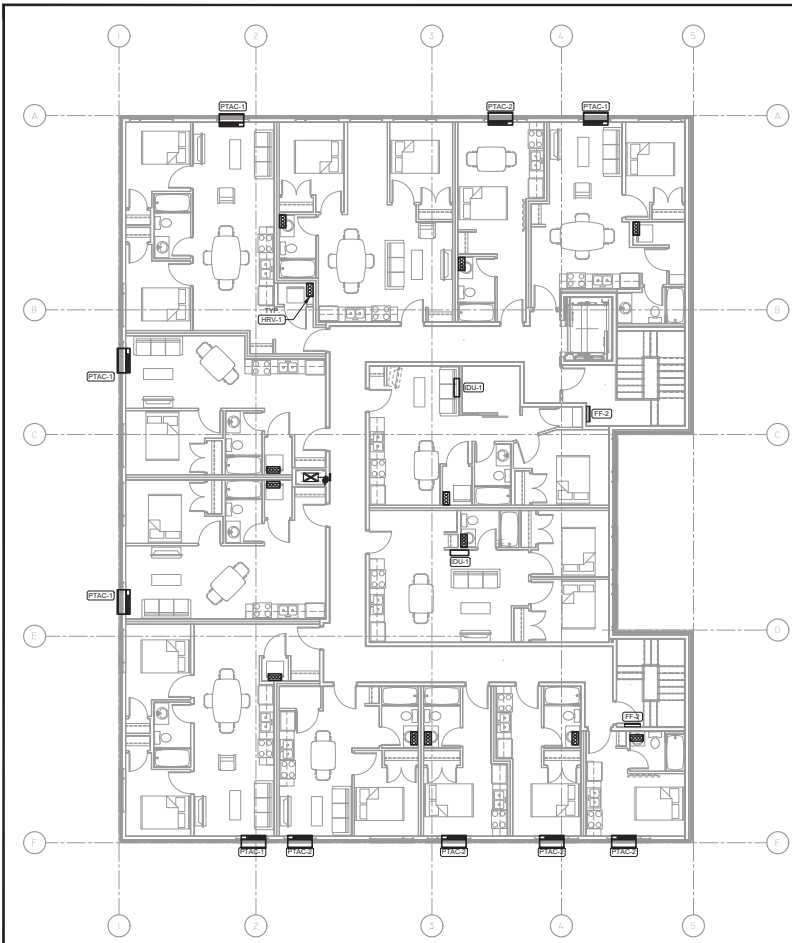
PROJECT:
PROPOSED SIX STORY APARTMENT WITH RETAIL
1202 COLLEGE DRIVE, SASKATOON, SASKATCHEWAN

DRAWING TITLE:
FIFTH FLOOR PLAN HVAC

| | |
|------------------|-----------------------------|
| PROJECT: 245-039 | DRAWING NUMBER: M4.5 |
| DATE: 01/09/2025 | CHECKED: O.G. |
| SCALE: AS NOTED | REVIS: |
| DRAWN: I.R. | |

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| | | | | |
|----------------|-------|------------------|----------------|--------------|
| DWG REVISIONS: | NO. 9 | DATE: 01/09/2025 | ENGINEER: O.G. | DESCRIPTION: |
|----------------|-------|------------------|----------------|--------------|



1 SIXTH FLOOR PLAN HVAC
SCALE: 1/8" = 1'-0"

HVAC GENERAL NOTES

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HVAC KEYNOTES

1

| BRANCH DUCT SIZING | |
|--------------------|--------------------|
| AIR FLOW (CFM) | BRANCH SIZE (INCH) |
| 0-40 | 6 (1/2) |
| 60-100 | 8 (200) |
| 121-200 | 10 (250) |
| 231-400 | 12 (300) |

MECHANICAL CONSULTANT:
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Mechanical Consulting Engineers
306 Sauer Rise, Saskatoon, SK. S7W 0J9
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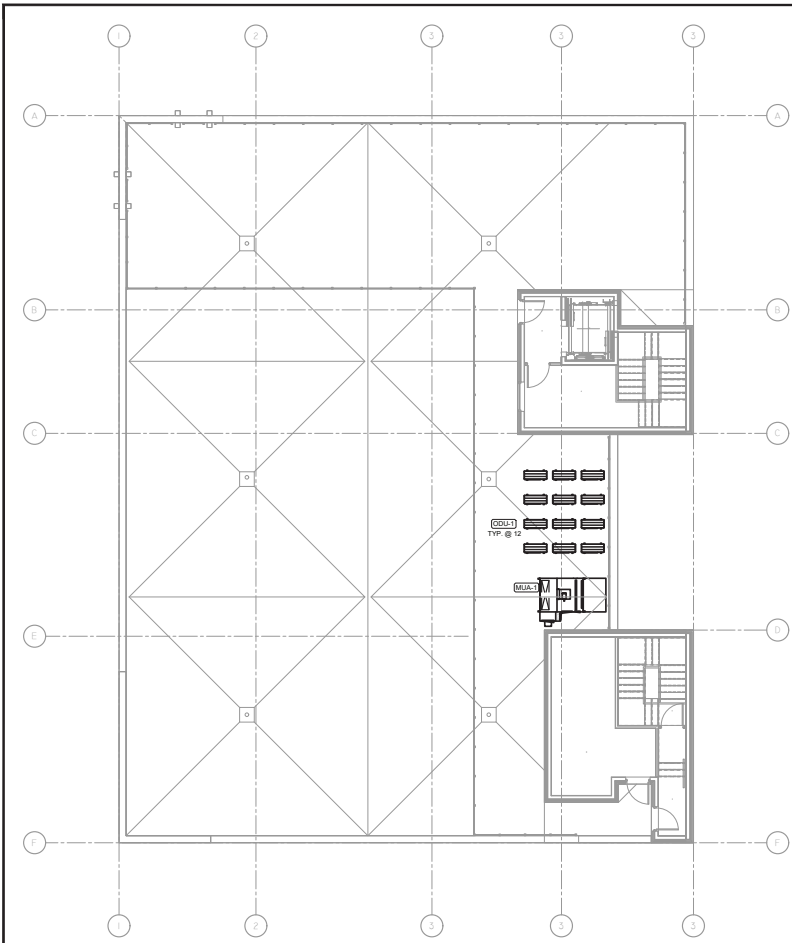
PROJECT:
PROPOSED SIX STORY APARTMENT WITH RETAIL
1202 COLLEGE DRIVE, SASKATOON, SASKATCHEWAN

DRAWING TITLE:
SIXTH FLOOR PLAN HVAC

| | |
|------------------|-----------------|
| PROJECT: 245-039 | DRAWING NUMBER: |
| DATE: 01/09/2025 | M4.6 |
| SCALE: AS NOTED | |
| DRAWN: LR | |
| CHECKED: D.G. | REV# |

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| | | | | |
|----------------|-------|------------------|----------------|--------------|
| DWG REVISIONS: | NO. 9 | DATE: 01/09/2025 | ENGINEER: D.G. | DESCRIPTION: |
|----------------|-------|------------------|----------------|--------------|



SIXTH FLOOR PLAN HVAC
SCALE: 1/8" = 1'-0"

HVAC GENERAL NOTES

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| BRANCH DUCT SIZING | |
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| AIR FLOW (CFM) | BRANCH SIZE (INCH) |
| 5-40 | 6 (1/2) |
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HVAC KEYNOTES

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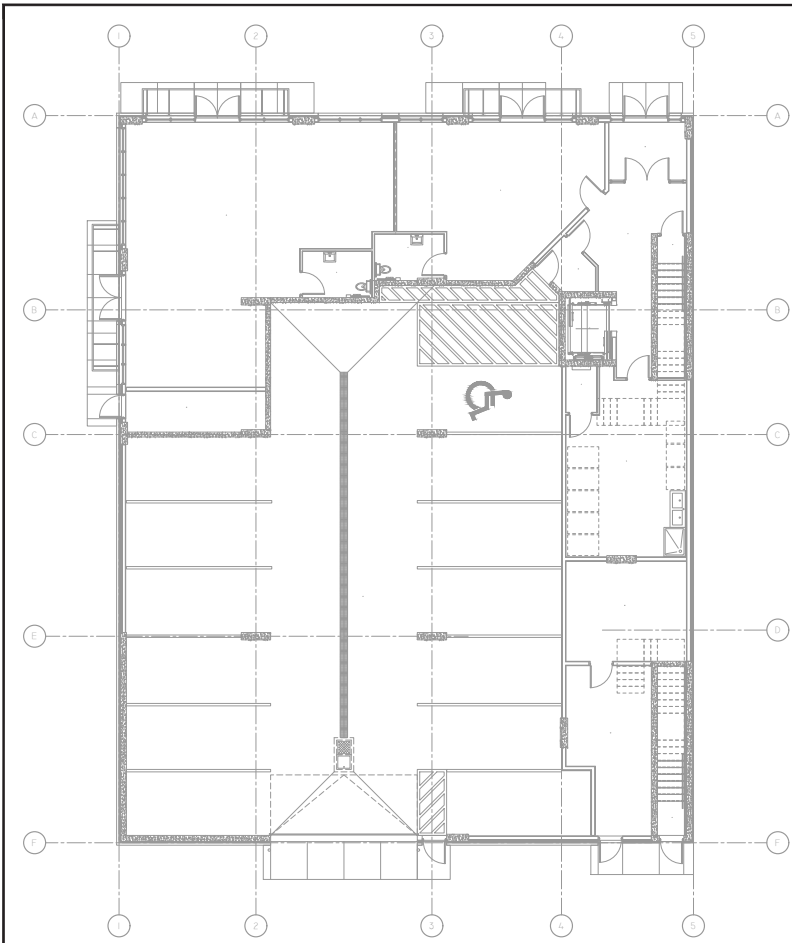
PROJECT:
PROPOSED SIX STORY APARTMENT WITH RETAIL
1202 COLLEGE DRIVE, SASKATOON, SASKATCHEWAN

DRAWING TITLE:
ROOF PLAN HVAC

| | |
|------------------|-----------------|
| PROJECT: 245-039 | DRAWING NUMBER: |
| DATE: 01/09/2025 | M4.7 |
| SCALE: AS NOTED | |
| DRAWN: LR | |
| CHECKED: D.G. | REV# |

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| DWG REVISIONS | NO. | DATE | ENGINEER | DESCRIPTION |
|---------------|-----|------------|----------|-------------|
| | 0 | 01/09/2025 | | |



1 PARKADE PLAN FIRE PROTECTION
SCALE: 1/8" = 1'-0"

FIRE PROTECTION GENERAL NOTES

- 1 SPRINKLER SYSTEM TO BE BASED ON NFPA13R OCCUPANCY.
- 2 SPRINKLER CONTRACTOR IS RESPONSIBLE FOR A COMPLETE SYSTEM WITHIN THE BUILDING AND SHALL ADD ADDITIONAL HEADS WHERE PATTERN INTERFERES WITH LIGHTING, STRUCTURAL, AND MECHANICAL SYSTEM ARRANGEMENTS.
- 3 ALL EQUIPMENT TO BE UL LISTED AND SUPPLIED AND INSTALLED AS PER NFPA13 & NFPA13R.
- 4 CONTRACTOR SHALL QUOTE THE SUPPLY AND INSTALLATION OF A COMPLETE SYSTEM WHETHER OR NOT ALL OF THE HARDWARE IS DETAILED HEREON AND IN THE SPECIFICATIONS.
- 5 ALL PIPING AND SPRINKLER HEADS ARE SHOWN SCHEMATICALLY.
- 6 SPRINKLER CONTRACTOR TO PROVIDE AND SUBMIT HYDRAULIC CALCULATIONS AND SHOP DRAWINGS STAMPED BY A PROFESSIONAL ENGINEER TO THE LOCAL AUTHORITY HAVING JURISDICTION AND OWNER'S INSURANCE UNDERWRITERS FOR REVIEW AND APPROVAL.
- 7 PIPING TO BE CPVC PLASTIC FOR 1" CONFORMING TO ASTM F441, LL AND UL LISTED, 3/4" TO 1-1/4" SCHEDULE 40 FITTINGS, 1-1/2" TO 3" SCHEDULE 80 FITTINGS. INSTALL AS PER NFPA13, NFPA13R, MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
- 8 PROVIDE FIRE STOPS AROUND ALL PIPING WHICH PASS THROUGH FIRE SEPARATIONS.
- 9 ALL HEADS SUBJECT TO DAMAGE TO HAVE WIRE GUARDS.
- 10 ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ELECTRICAL WIRING AND CONNECTIONS. SPRINKLER CONTRACTOR TO COORDINATE THE CORRECT ELECTRICAL OPERATION OF ALL SPRINKLER FLOW SWITCHES, TAMPER SWITCHES, AND PRESSURE SWITCHES SHALL BE CONFIRMED PRIOR TO THE FORMAL FIRE ALARM VERIFICATION.
- 11 CONTRACTOR IS RESPONSIBLE FOR ELECTRICAL WIRING AND CONNECTIONS.
- 12 ALL PIPING TO BE EXPOSED AND PAINTED WITH LATEX BASED PAINT AS PER NFPA13R AND AUTHORITY HAVING JURISDICTION.
- 13 EXISTING SPRINKLER HEAD LOCATIONS WERE OBTAINED FROM EXISTING SPRINKLER SHOP DRAWING. CONTRACTOR TO DETERMINE EXACT NUMBER AND LOCATION ON SITE.
- 14 PROVIDE SPRINKLER TEST CERTIFICATE ON COMPLETION.
- 15 THE SPRINKLER CONTRACTOR SHALL BE PRESENT AT THE FIRE ALARM VERIFICATION TO DEMONSTRATE THE OPERATION OF THESE DEVICES.
- 16 SPRINKLER CONTRACTOR TO SUPPLY FIRE EXTINGUISHER CABINETS AND FIRE EXTINGUISHERS AS INDICATED. UNITS TO BE LABELED AND INSTALLED AS PER NFPA13. ALL INSTRUCTION FOR THE OPERATION AND MAINTENANCE OF FIRE EXTINGUISHERS TO BE PERMANENTLY AFFIXED TO EACH UNIT.
- 17 SPRINKLER HEADS NEAR HEAT PRODUCING EQUIPMENT SUCH AS UNIT HEATERS, ETC. TO BE HIGH TEMPERATURE RATED.

4 FIRE PROTECTION KEYNOTES

1

MECHANICAL CONSULTANT:
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Mechanical Consulting Engineers
306 Sauer Rise, Saskatoon, SK. S7W 0J9
Contact: Odner
Phone : (306) 715-6788
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PROJECT NO. 245-039

PROFESSIONAL SEAL:
PRELIMINARY

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CLIENT:
JAMES ZIMMER ARCHITECT

PROJECT:
PROPOSED SIX STORY APARTMENT WITH RETAIL
1202 COLLEGE DRIVE, SASKATOON, SASKATCHEWAN

DRAWING TITLE:
PARKADE PLAN FIRE PROTECTION

| | |
|------------------|-----------------------------|
| PROJECT: 245-039 | DRAWING NUMBER: M5.1 |
| DATE: 01/20/2025 | SCALE: AS NOTED |
| DRAWN: LR | CHECKED: D.O. |
| NO. 9 | DATE: 01/20/2025 |
| ENGINEER: O.O. | DESCRIPTION: |

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MECHANICAL SPECIFICATIONS

1. GENERAL

- 1.1. GENERAL PROVISIONS
 - 1.1.1. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE TO COMPLETE A FULLY OPERATIONAL MECHANICAL SYSTEM.
 - 1.1.2. DRAWINGS AND SPECIFICATIONS ARE COMPLIMENTARY TO EACH OTHER AND WHAT IS CALLED FOR IN ONE BRINGS AS TO THE OTHER.
 - 1.1.3. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS REQUIRED FOR PROPER INSTALLATION OF THE SYSTEMS AND TO BE INCLUDED IN THE WORK.

- 1.2. CONTRACT DOCUMENTS ARE SUPPLEMENTARY ONLY. THEY ARE TO ESTABLISH SCOPE, MATERIAL QUALITY, AND THEY ARE NOT TO BE USED TO CHANGE THE SCOPE OF THE WORK OR TO ADD MATERIALS AND METHODS NOT SPECIFICALLY IDENTIFIED IN THE CONTRACT DOCUMENTS.
- 1.3. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS REQUIRED FOR PROPER INSTALLATION OF THE SYSTEMS AND TO BE INCLUDED IN THE WORK.
- 1.4. EACH CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS REQUIRED FOR PROPER INSTALLATION OF THE SYSTEMS AND TO BE INCLUDED IN THE WORK.

- 1.5. DRAWINGS AND SPECIFICATIONS ARE BASED ON AS-BUILT INFORMATION PROVIDED. THIS WORK OR MAY BE SUBJECT TO CHANGE WITHOUT NOTICE AND WITHOUT OBLIGATION TO THE CONTRACTOR.
- 1.6. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS REQUIRED FOR PROPER INSTALLATION OF THE SYSTEMS AND TO BE INCLUDED IN THE WORK.
- 1.7. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS REQUIRED FOR PROPER INSTALLATION OF THE SYSTEMS AND TO BE INCLUDED IN THE WORK.

- 1.8. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS REQUIRED FOR PROPER INSTALLATION OF THE SYSTEMS AND TO BE INCLUDED IN THE WORK.
- 1.9. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS REQUIRED FOR PROPER INSTALLATION OF THE SYSTEMS AND TO BE INCLUDED IN THE WORK.
- 1.10. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS REQUIRED FOR PROPER INSTALLATION OF THE SYSTEMS AND TO BE INCLUDED IN THE WORK.

- 1.11. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS REQUIRED FOR PROPER INSTALLATION OF THE SYSTEMS AND TO BE INCLUDED IN THE WORK.
- 1.12. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS REQUIRED FOR PROPER INSTALLATION OF THE SYSTEMS AND TO BE INCLUDED IN THE WORK.
- 1.13. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS REQUIRED FOR PROPER INSTALLATION OF THE SYSTEMS AND TO BE INCLUDED IN THE WORK.

- 1.14. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS REQUIRED FOR PROPER INSTALLATION OF THE SYSTEMS AND TO BE INCLUDED IN THE WORK.
- 1.15. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS REQUIRED FOR PROPER INSTALLATION OF THE SYSTEMS AND TO BE INCLUDED IN THE WORK.
- 1.16. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS REQUIRED FOR PROPER INSTALLATION OF THE SYSTEMS AND TO BE INCLUDED IN THE WORK.

- 1.17. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS REQUIRED FOR PROPER INSTALLATION OF THE SYSTEMS AND TO BE INCLUDED IN THE WORK.
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- 1.19. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS REQUIRED FOR PROPER INSTALLATION OF THE SYSTEMS AND TO BE INCLUDED IN THE WORK.

- 1.20. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS REQUIRED FOR PROPER INSTALLATION OF THE SYSTEMS AND TO BE INCLUDED IN THE WORK.
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- 1.25. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS REQUIRED FOR PROPER INSTALLATION OF THE SYSTEMS AND TO BE INCLUDED IN THE WORK.

2. PLUMBING

- 2.1. GENERAL
 - 2.1.1. THE PLUMBING SYSTEMS AS SHOWN ON THE DRAWINGS WITH THE HIGHEST QUALITY OF MATERIALS AND WORKMANSHIP SHALL BE INSTALLED.
 - 2.1.2. THE PLUMBING SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL PLUMBING CODE AND LOCAL ORDINANCES.

- 2.2. PIPING
 - 2.2.1. ALL PIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL PLUMBING CODE AND LOCAL ORDINANCES.
 - 2.2.2. ALL PIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL PLUMBING CODE AND LOCAL ORDINANCES.

- 2.3. WATER
 - 2.3.1. WATER PIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL PLUMBING CODE AND LOCAL ORDINANCES.
 - 2.3.2. WATER PIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL PLUMBING CODE AND LOCAL ORDINANCES.

- 2.4. WASTE
 - 2.4.1. WASTE PIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL PLUMBING CODE AND LOCAL ORDINANCES.
 - 2.4.2. WASTE PIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL PLUMBING CODE AND LOCAL ORDINANCES.

- 2.5. VENT
 - 2.5.1. VENT PIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL PLUMBING CODE AND LOCAL ORDINANCES.
 - 2.5.2. VENT PIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL PLUMBING CODE AND LOCAL ORDINANCES.

- 2.6. VALVES
 - 2.6.1. VALVES SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL PLUMBING CODE AND LOCAL ORDINANCES.
 - 2.6.2. VALVES SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL PLUMBING CODE AND LOCAL ORDINANCES.

- 2.7. HYDRONIC HEATING
 - 2.7.1. HYDRONIC HEATING SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL PLUMBING CODE AND LOCAL ORDINANCES.
 - 2.7.2. HYDRONIC HEATING SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL PLUMBING CODE AND LOCAL ORDINANCES.

- 2.8. REGULATORY REQUIREMENTS
 - 2.8.1. REGULATORY REQUIREMENTS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL PLUMBING CODE AND LOCAL ORDINANCES.
 - 2.8.2. REGULATORY REQUIREMENTS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL PLUMBING CODE AND LOCAL ORDINANCES.

- 2.9. SUBMITTALS
 - 2.9.1. SUBMITTALS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL PLUMBING CODE AND LOCAL ORDINANCES.
 - 2.9.2. SUBMITTALS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL PLUMBING CODE AND LOCAL ORDINANCES.

3. ELECTRICAL

- 3.1. GENERAL
 - 3.1.1. THE ELECTRICAL SYSTEMS AS SHOWN ON THE DRAWINGS WITH THE HIGHEST QUALITY OF MATERIALS AND WORKMANSHIP SHALL BE INSTALLED.
 - 3.1.2. THE ELECTRICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE AND LOCAL ORDINANCES.

- 3.2. WIRING
 - 3.2.1. ALL WIRING SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE AND LOCAL ORDINANCES.
 - 3.2.2. ALL WIRING SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE AND LOCAL ORDINANCES.

- 3.3. PANELS
 - 3.3.1. ELECTRICAL PANELS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE AND LOCAL ORDINANCES.
 - 3.3.2. ELECTRICAL PANELS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE AND LOCAL ORDINANCES.

- 3.4. CONDUIT
 - 3.4.1. CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE AND LOCAL ORDINANCES.
 - 3.4.2. CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE AND LOCAL ORDINANCES.

- 3.5. DEVICES
 - 3.5.1. ELECTRICAL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE AND LOCAL ORDINANCES.
 - 3.5.2. ELECTRICAL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE AND LOCAL ORDINANCES.

- 3.6. LABELING
 - 3.6.1. LABELING SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE AND LOCAL ORDINANCES.
 - 3.6.2. LABELING SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE AND LOCAL ORDINANCES.

- 3.7. TESTING
 - 3.7.1. TESTING SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE AND LOCAL ORDINANCES.
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- 3.8. SUBMITTALS
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 - 3.8.2. SUBMITTALS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE AND LOCAL ORDINANCES.

- 3.9. RECORD DRAWINGS
 - 3.9.1. RECORD DRAWINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE AND LOCAL ORDINANCES.
 - 3.9.2. RECORD DRAWINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE AND LOCAL ORDINANCES.

4. MECHANICAL EQUIPMENT

- 4.1. GENERAL
 - 4.1.1. MECHANICAL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL MECHANICAL CODE AND LOCAL ORDINANCES.
 - 4.1.2. MECHANICAL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL MECHANICAL CODE AND LOCAL ORDINANCES.

- 4.2. PIPING
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- 4.3. VALVES
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- 4.5. DEVICES
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- 4.7. TESTING
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- 4.8. SUBMITTALS
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- 4.9. RECORD DRAWINGS
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 - 4.9.2. RECORD DRAWINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL MECHANICAL CODE AND LOCAL ORDINANCES.

5. HEATING, VENTILATION AND AIR CONDITIONING

- 5.1. GENERAL
 - 5.1.1. HEATING, VENTILATION AND AIR CONDITIONING SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL MECHANICAL CODE AND LOCAL ORDINANCES.
 - 5.1.2. HEATING, VENTILATION AND AIR CONDITIONING SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL MECHANICAL CODE AND LOCAL ORDINANCES.

- 5.2. PIPING
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MECHANICAL CONSULTANT:

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PROJECT NO: 245108

PROFESSIONAL SEAL:

NOTE: ALL MAY NOT BE USED IN THESE DRAWINGS

PRELIMINARY

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CLIENT:
JAMES ZIMMER ARCHITECT

PROJECT:
PROPOSED SIX STORY APARTMENT WITH RETAIL

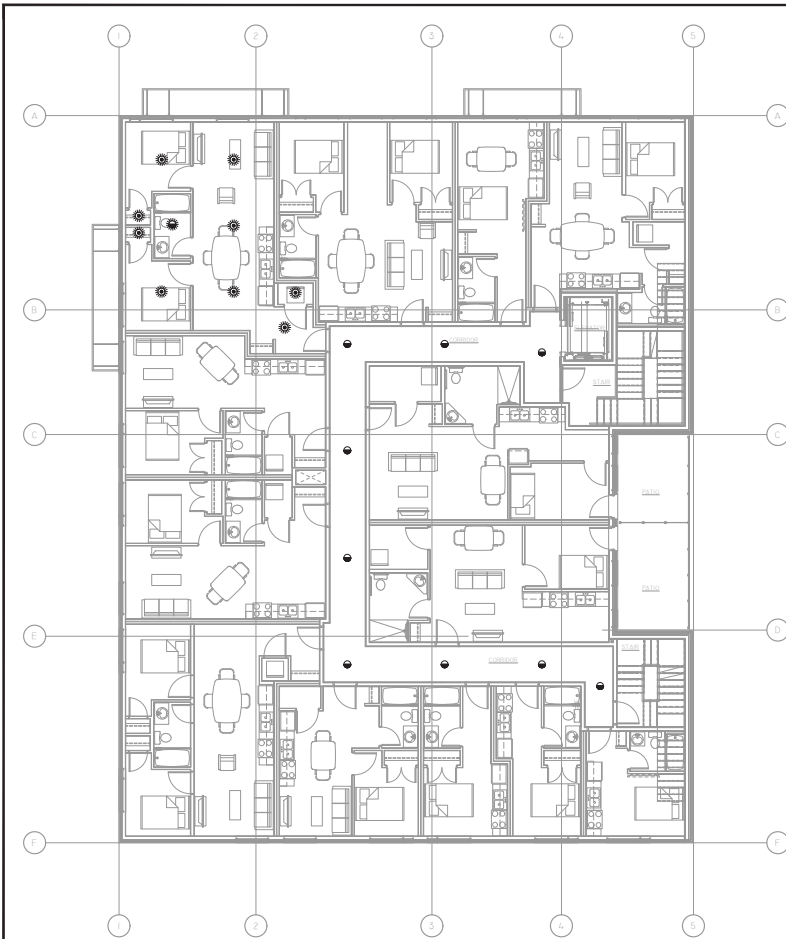
1202 COLLEGE DRIVE, SASKATOON, SASKATCHEWAN

DRAWING TITLE:
MECHANICAL SPECIFICATIONS

PROJECT 245108
DATE: 01/09/2025
SCALE: AS NOTED
DRAWN: LR
CHECKED: O.D.

DWG REVISIONS: NO. 9 DATE: 01/09/2025 ENGINEER: O.O. DESCRIPTION:

DWG NO.: **M6.6**



1 SECOND & THIRD FLOOR PLAN FIRE PROTECTION
SCALE: 1/8" = 1'-0"

FIRE PROTECTION GENERAL NOTES

- 1 SPRINKLER SYSTEM TO BE BASED ON NFPA13R OCCUPANCY.
- 2 SPRINKLER CONTRACTOR IS RESPONSIBLE FOR A COMPLETE SYSTEM WITHIN THE BUILDING AND SHALL ADD ADDITIONAL HEADS WHERE PATTERN INTERFERES WITH LIGHTING, STRUCTURAL, AND MECHANICAL SYSTEM ARRANGEMENTS.
- 3 ALL EQUIPMENT TO BE UL LISTED AND SUPPLIED AND INSTALLED AS PER NFPA13 & NFPA13R.
- 4 CONTRACTOR SHALL QUOTE THE SUPPLY AND INSTALLATION OF A COMPLETE SYSTEM WHETHER OR NOT ALL OF THE HARDWARE IS DETAILED HEREON AND IN THE SPECIFICATIONS.
- 5 ALL PIPING AND SPRINKLER HEADS ARE SHOWN SCHEMATICALLY.
- 6 SPRINKLER CONTRACTOR TO PROVIDE AND SUBMIT HYDRAULIC CALCULATIONS AND SHOP DRAWINGS STAMPED BY A PROFESSIONAL ENGINEER TO THE LOCAL AUTHORITY HAVING JURISDICTION AND OWNER'S INSURANCE UNDERWRITERS FOR REVIEW AND APPROVAL.
- 7 PIPING TO BE CPVC PLASTIC FOR 13 CONFORMING TO ASTM F441, LL AND UL LISTED, 3/4" TO 1-1/4" SCHEDULE 40 FITTINGS, 1-1/2" TO 3" SCHEDULE 80 FITTINGS. INSTALL AS PER NFPA13, NFPA13R, MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
- 8 PROVIDE FIRE STOPS AROUND ALL PIPING WHICH PASS THROUGH FIRE SEPARATIONS.
- 9 ALL HEADS SUBJECT TO DAMAGE TO HAVE WIRE GUARDS.
- 10 ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ELECTRICAL WIRING AND CONNECTIONS. SPRINKLER CONTRACTOR TO COORDINATE THE CORRECT ELECTRICAL OPERATION OF ALL SPRINKLER FLOW SWITCHES, TAMPER SWITCHES, AND PRESSURE SWITCHES SHALL BE CONFIRMED PRIOR TO THE FORMAL FIRE ALARM VERIFICATION.
- 11 CONTRACTOR IS RESPONSIBLE FOR ELECTRICAL WIRING AND CONNECTIONS.
- 12 ALL PIPING TO BE EXPOSED AND PAINTED WITH LATEX BASED PAINT AS PER NFPA13R AND AUTHORITY HAVING JURISDICTION.
- 13 EXISTING SPRINKLER HEAD LOCATIONS WERE OBTAINED FROM EXISTING SPRINKLER SHOP DRAWING. CONTRACTOR TO DETERMINE EXACT NUMBER AND LOCATION ON SITE.
- 14 PROVIDE SPRINKLER TEST CERTIFICATE ON COMPLETION.
- 15 THE SPRINKLER CONTRACTOR SHALL BE PRESENT AT THE FIRE ALARM VERIFICATION TO DEMONSTRATE THE OPERATION OF THESE DEVICES.
- 16 SPRINKLER CONTRACTOR TO SUPPLY FIRE EXTINGUISHER CABINETS AND FIRE EXTINGUISHERS AS INDICATED. UNITS TO BE LABELED AND INSTALLED AS PER NFPA13. ALL INSTRUCTION FOR THE OPERATION AND MAINTENANCE OF FIRE EXTINGUISHERS TO BE PERMANENTLY AFFIXED TO EACH UNIT.
- 17 SPRINKLER HEADS NEAR HEAT PRODUCING EQUIPMENT SUCH AS UNIT HEATERS, ETC. TO BE HIGH TEMPERATURE RATED.

4 FIRE PROTECTION KEYNOTES

1

MECHANICAL CONSULTANT:

PS. Engineering Inc
Mechanical Consulting Engineers
306 Sauer Rise, Saskatoon, SK, S7W 0J9
Contact: Odner
Phone : (306) 715-6788
Email : odner@pseng.ca

PROJECT NO. 245-039

PROFESSIONAL SEAL:

PRELIMINARY

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CLIENT:
JAMES ZIMMER ARCHITECT

PROJECT:
PROPOSED SIX STORY APARTMENT WITH RETAIL

1202 COLLEGE DRIVE,
SASKATOON, SASKATCHEWAN

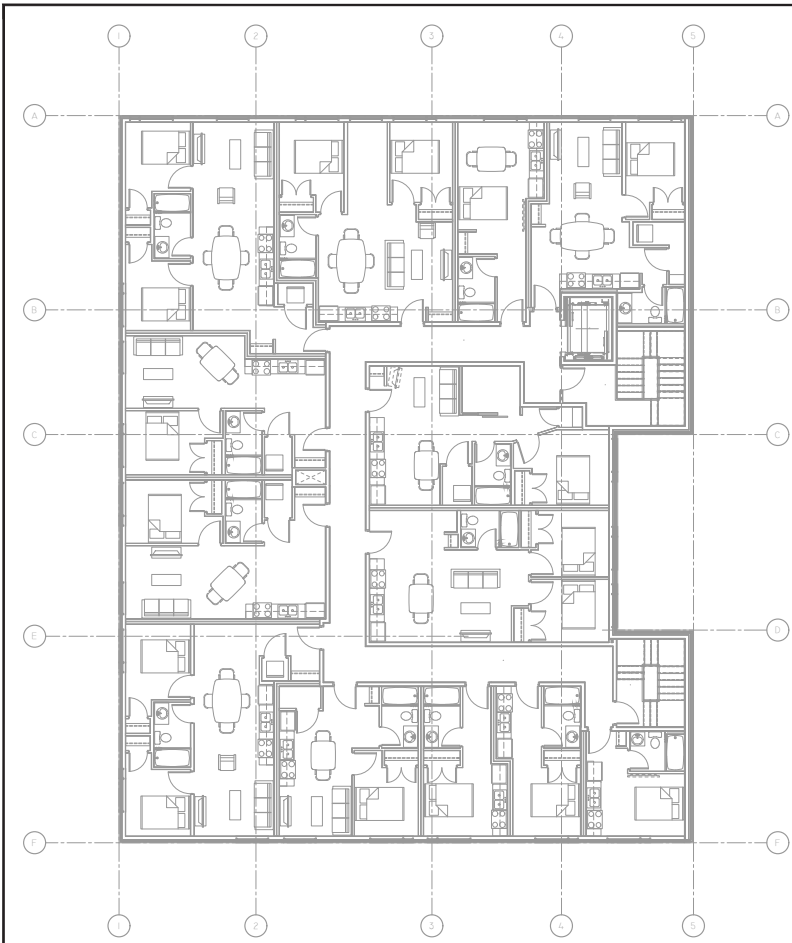
DRAWING TITLE:
SECOND & THIRD FLOOR PLAN FIRE PROTECTION

PROJECT: 245-039
DATE: 01/09/2025
SCALE: AS NOTED
DRAWN: LR
CHECKED: D.O.

DRAWING NUMBER:
M5.2
REV#

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DWG REVISIONS: NO. 9 DATE: 01/09/2025 ENGINEER: D.O. DESCRIPTION:



1 FOURTH, FIFTH, AND SIXTH FLOOR PLAN FIRE PROTECTION
M5.3 SCALE: 1/8" = 1'-0"

FIRE PROTECTION GENERAL NOTES

- 1 SPRINKLER SYSTEM TO BE BASED ON NFPA13R OCCUPANCY.
- 2 SPRINKLER CONTRACTOR IS RESPONSIBLE FOR A COMPLETE SYSTEM WITHIN THE BUILDING AND SHALL ADD ADDITIONAL HEADS WHERE PATTERN INTERFERES WITH LIGHTING, STRUCTURAL, AND MECHANICAL SYSTEM ARRANGEMENTS.
- 3 ALL EQUIPMENT TO BE LIST LISTED AND SUPPLIED AND INSTALLED AS PER NFPA13 & NFPA13R.
- 4 CONTRACTOR SHALL QUOTE THE SUPPLY AND INSTALLATION OF A COMPLETE SYSTEM WHETHER OR NOT ALL OF THE HARDWARE IS DETAILED HEREON AND IN THE SPECIFICATIONS.
- 5 ALL PIPING AND SPRINKLER HEADS ARE SHOWN SCHEMATICALLY.
- 6 SPRINKLER CONTRACTOR TO PROVIDE AND SUBMIT HYDRAULIC CALCULATIONS AND SHOP DRAWINGS STAMPED BY A PROFESSIONAL ENGINEER TO THE LOCAL AUTHORITY HAVING JURISDICTION AND OWNER'S INSURANCE UNDERWRITERS FOR REVIEW AND APPROVAL.
- 7 PIPING TO BE CPVC PLASTIC FOR 13 CONFORMING TO ASTM F441, LL AND LIL LISTED, 3/4" TO 1-1/4" SCHEDULE 40 FITTINGS, 1-1/2" TO 3" SCHEDULE 80 FITTINGS. INSTALL AS PER NFPA13, NFPA13R, MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
- 8 PROVIDE FIRE STOPS AROUND ALL PIPING WHICH PASS THROUGH FIRE SEPARATIONS.
- 9 ALL HEADS SUBJECT TO DAMAGE TO HAVE WIRE GUARDS.
- 10 ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ELECTRICAL WIRING AND CONNECTIONS. SPRINKLER CONTRACTOR TO COORDINATE THE CORRECT ELECTRICAL OPERATION OF ALL SPRINKLER FLOW SWITCHES, TAMPER SWITCHES, AND PRESSURE SWITCHES SHALL BE CONFIRMED PRIOR TO THE FORMAL FIRE ALARM VERIFICATION.
- 11 CONTRACTOR IS RESPONSIBLE FOR ELECTRICAL WIRING AND CONNECTIONS.
- 12 ALL PIPING TO BE EXPOSED AND PAINTED WITH LATEX BASED PAINT AS PER NFPA13R AND AUTHORITY HAVING JURISDICTION.
- 13 EXISTING SPRINKLER HEAD LOCATIONS WERE OBTAINED FROM EXISTING SPRINKLER SHOP DRAWING. CONTRACTOR TO DETERMINE EXACT NUMBER AND LOCATION ON SITE.
- 14 PROVIDE SPRINKLER TEST CERTIFICATE ON COMPLETION.
- 15 THE SPRINKLER CONTRACTOR SHALL BE PRESENT AT THE FIRE ALARM VERIFICATION TO DEMONSTRATE THE OPERATION OF THESE DEVICES.
- 16 SPRINKLER CONTRACTOR TO SUPPLY FIRE EXTINGUISHER CABINETS AND FIRE EXTINGUISHERS AS INDICATED. UNITS TO BE LABELED AND INSTALLED AS PER NFPA13. ALL INSTRUCTION FOR THE OPERATION AND MAINTENANCE OF FIRE EXTINGUISHERS TO BE PERMANENTLY AFFIXED TO EACH UNIT.
- 17 SPRINKLER HEADS NEAR HEAT PRODUCING EQUIPMENT SUCH AS UNIT HEATERS, ETC. TO BE HIGH TEMPERATURE RATED.

4 FIRE PROTECTION KEYNOTES

1

MECHANICAL CONSULTANT:
PS. Engineering Inc
Mechanical Consulting Engineers
306 Sauer Rise, Saskatoon, SK. S7W 0J9
Contact: Odner
Phone : (306) 715-6788
Email : odner@pseng.ca
PROJECT NO. 245-039

PROFESSIONAL SEAL:
PRELIMINARY

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CLIENT:
JAMES ZIMMER ARCHITECT

PROJECT:
PROPOSED SIX STORY APARTMENT WITH RETAIL
1202 COLLEGE DRIVE, SASKATOON, SASKATCHEWAN

DRAWING TITLE:
FOURTH, FIFTH, & SIXTH FLOOR PLAN FIRE PROTECTION

| | |
|------------------|-----------------|
| PROJECT: 245-039 | DRAWING NUMBER: |
| DATE: 01/09/2025 | M5.3 |
| SCALE: AS NOTED | |
| DRAWN: I.R. | |
| CHECKED: D.O. | REV# |

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| DWG REVISIONS: | NO. 9 | DATE: 01/09/2025 | ENGINEER: D.O. | DESCRIPTION: |
|----------------|-------|------------------|----------------|--------------|

| PIPING SYMBOL LEGEND | |
|----------------------|--------------------------------------------------------------------------|
| ITEM | DESCRIPTION |
| | GATE VALVE |
| | BALL VALVE |
| | BUTTERFLY VALVE |
| | CHECK VALVE |
| | REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTOR |
| | DOUBLE CHECK VALVE |
| | GLOBE VALVE |
| | LOCKSHIELD BALANCING VALVE |
| | CONTROL VALVES |
| | PRESSURE REDUCING VALVE |
| | PRESSURE RELIEF VALVE |
| | CIRCUIT BALANCING VALVE |
| | AUTOMATIC FLOW CONTROL DEVICE |
| | AUTOMATIC FLOW CONTROL DEVICE WITH INTEGRAL VALVE AND STRAINER |
| | PRESSURE INDEPENDENT AUTOMATIC FLOW CONTROL VALVE WITH OCC CONTROL MOTOR |
| | O & Y VALVE |
| | GAS COCK |
| | FLEXIBLE PIPE CONNECTION |
| | STRAINER |
| | UNION |
| | PIPE ANCHOR AND GUIDES |
| | EXPANSION JOINT |
| | DIRECTION OF FLOW |
| | PIPE CAP |
| | TRIPLE DUTY VALVE - SUCTION DIFFUSER |
| | AIR VENTS - MANUAL AND AUTOMATIC |
| | STEAM TRAP - FLOAT AND THERMOSTATIC |
| | STEAM TRAP - BUCKET |
| | STEAM TRAP - THERMOSTATIC |
| | HOSE BIBB |
| | NON FREEZE HOSE BIBB |
| | TRAP |
| | FLOOR DRAIN & FUNNEL FLOOR DRAIN |
| | CONNECT NEW PIPE TO EXISTING |
| | CLEAN-OUT |
| | PIPE DROP |
| | PIPE RISE |
| | PIPE TEE |
| | PIPE ELBOW |
| | PIPE CONTINUATION |
| | CONNECT TO DRAIN - INDIRECT |
| | PIPE SLOPE |
| | TEMPERATURE GAUGE |
| | PRESSURE GAUGE |
| | P & T PLUG |

NOTE: ALL MAY NOT BE USED IN THESE DRAWINGS.

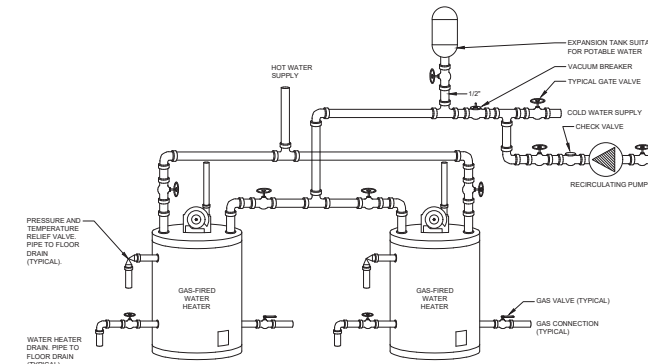
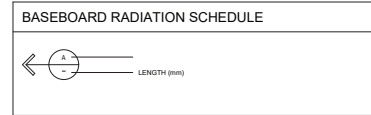
| DUCT LEGEND | |
|-------------|-------------------------------------------|
| ITEM | DESCRIPTION |
| | DIRECTION OF FLOW |
| | FIRE DAMPER |
| | FIRE/SMOKE DAMPER |
| | FIRE STOP FLAP |
| | METAL WALL CAP |
| | DUCT CONTINUATION - RECTANGULAR |
| | DUCT CONTINUATION - ROUND |
| | EXISTING DUCT-WORK TO REMAIN |
| | EXISTING DUCT-WORK TO BE REMOVED |
| | NEW DUCT-WORK |
| | DUCTWORK WITH INTERNAL INSULATION |
| | BALANCING DAMPER / VOLUME EXTRACTOR |
| | SUPPLY DUCTWORK - UP & DOWN |
| | OUTDOOR DUCTWORK - UP & DOWN |
| | RETURN AIR DUCTWORK - UP & DOWN |
| | EXHAUST DUCTWORK - UP & DOWN |
| | ROUND DUCTWORK - UP & DOWN |
| | FLEXIBLE DUCTWORK (1200mm MAXIMUM LENGTH) |
| | DUCTWORK CONICAL T'S |
| | DUCTWORK ELBOW WITH TURNING VANES |
| | MOTORIZED DAMPER |

NOTE: ALL MAY NOT BE USED IN THESE DRAWINGS.

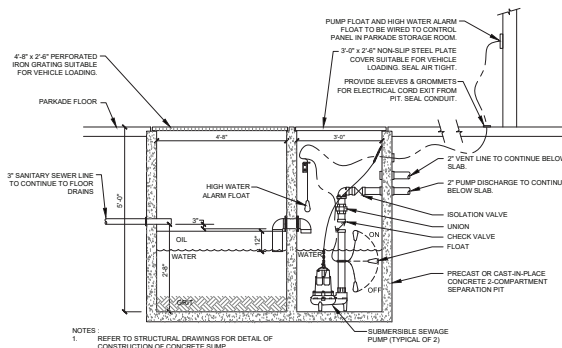
| FIRE PROTECTION | |
|-----------------|-----------------------------------------------------------|
| ITEM | DESCRIPTION |
| | SPRINKLER HEAD - PENDANT |
| | SPRINKLER HEAD - UPRIGHT |
| | SPRINKLER HEAD - PENDANT SEMI-RECESSED |
| | SPRINKLER HEAD - PENDANT - CONCEALED |
| | SPRINKLER HEAD - SIDEWALL |
| | SPRINKLER HEAD - INSTITUTIONAL (QUICK RESPONSE) |
| | REMOVE EXISTING SPRINKLER HEAD |
| | SPRINKLER HEADS - EXTENDED COVERAGE |
| | SPRINKLER HEADS - QUICK RESPONSE |
| | SPRINKLER HEADS - DRY TYPE |
| | SPRINKLER HEADS - HIGH TEMPERATURE |
| | FIRE PROTECTION VALVE - WITH SWITCH FOR FIRE ALARM SYSTEM |
| | CHECK VALVE WITH BALL DROP |
| | FIRE HOSE CABINET |
| | FIRE EXTINGUISHER |
| | FIRE EXTINGUISHER C/W SEMI-RECESSED CABINET |
| | FIRE EXTINGUISHER C/W FULL RECESSED CABINET |
| | FIRE DEPARTMENT CONNECTION |
| | FIRE HYDRANT |
| | FIRE PROTECTION SYSTEM GONG |

NOTE: ALL MAY NOT BE USED IN THESE DRAWINGS.

| CONTROLS LEGEND | |
|-----------------|-------------------------|
| ITEM | DESCRIPTION |
| | THERMOSTAT / HUMIDISTAT |
| | THERMOSTAT w/ GUARD |
| | FAN SPEED CONTROL |
| | CO2 SENSOR |
| | CONTROL CONNECTIONS |
| | TEMPERATURE SENSOR |
| | TEMPERATURE SENSOR |
| | FLOW SENSOR |
| | TEMPERATURE GAUGE |
| | PRESSURE GAUGE |

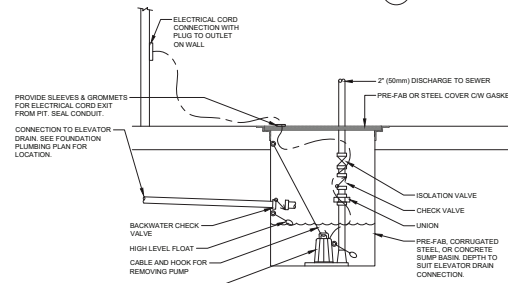


4 WATER HEATER PIPING SCHEMATIC
ME1 SCALE: N.T.S.



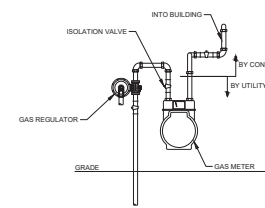
NOTES:
1. REFER TO STRUCTURAL DRAWINGS FOR DETAIL OF CONSTRUCTION OF CONCRETE SUMP.
2. MINIMUM WIDTH OF SUMP 30" (INSIDE DIMENSION)

1 SEPARATION PIT PIPING DETAIL
ME1 SCALE: N.T.S.



2 ELEVATOR SUMP PUMP/PIT DETAIL
ME1 SCALE: N.T.S.

GAS PIPING SIZED OFF 200FT OF PIPING @ 5 LBS GAS PRESSURE FROM METER. MECH CONTRACTOR TO CONFIRM ALL DISTANCES ON SITE AND VERIFY GAS PIPING SCHEMATIC & ST-200-10 P & E ENGINEERING FOR REVIEW PRIOR TO INSTALL.



3 GAS METER DETAIL
ME1 SCALE: N.T.S.

MECHANICAL CONSULTANT:

P.S. Engineering Inc
Mechanical Consulting Engineers
306 Sauer Rise, Saskatoon, SK, S7W 0J9
Contact: Odner
Phone : (306) 715-6788
Email : odner@pseng.ca
PROJECT NO. 245-039

PROFESSIONAL SEAL:

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CLIENT:
JAMES ZIMMER ARCHITECT

PROJECT:
PROPOSED SIX STORY APARTMENT WITH RETAIL

1202 COLLEGE DRIVE, SASKATOON, SASKATCHEWAN

DRAWING TITLE:
MECHANICAL LEGENDS & DETAILS

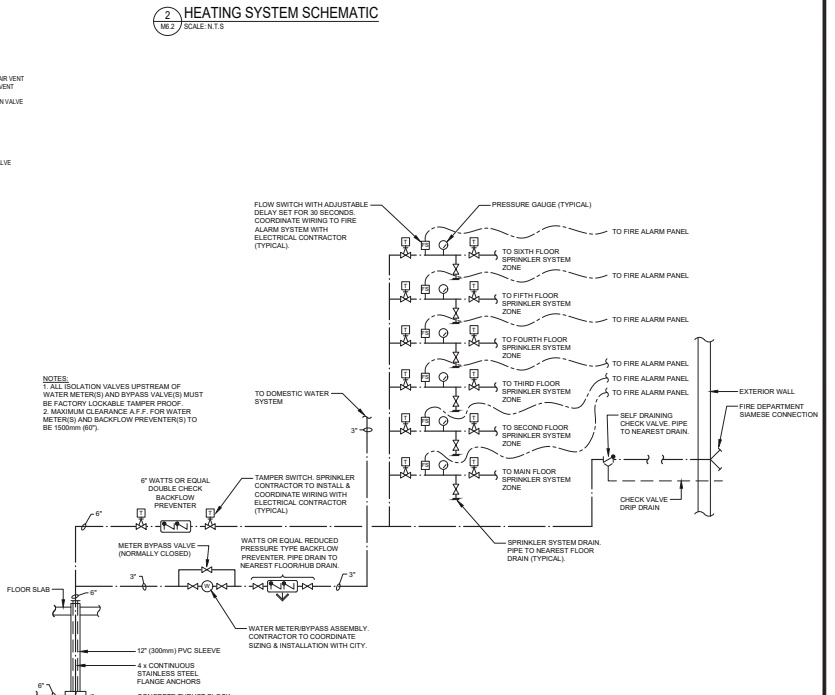
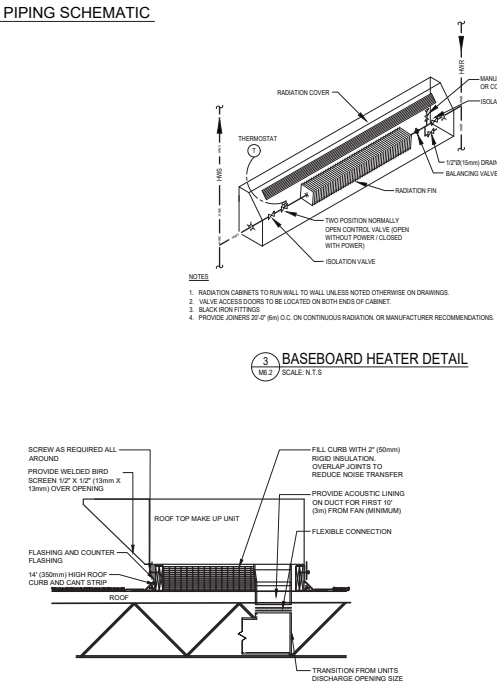
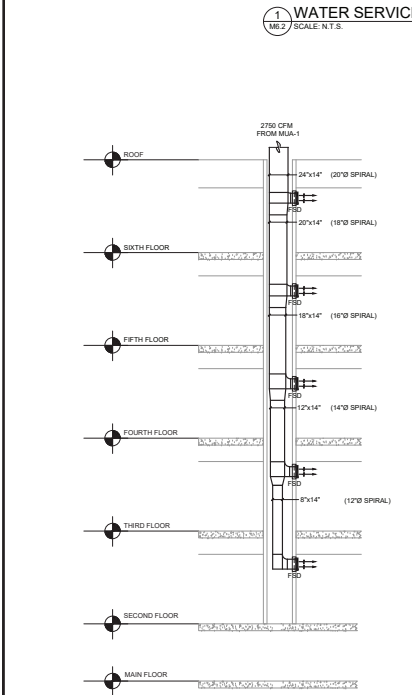
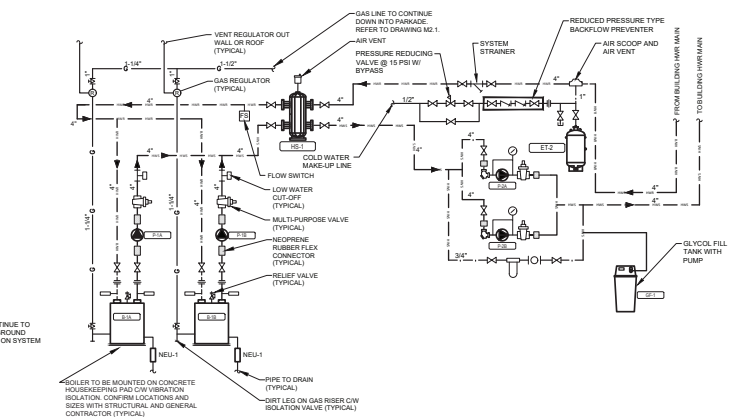
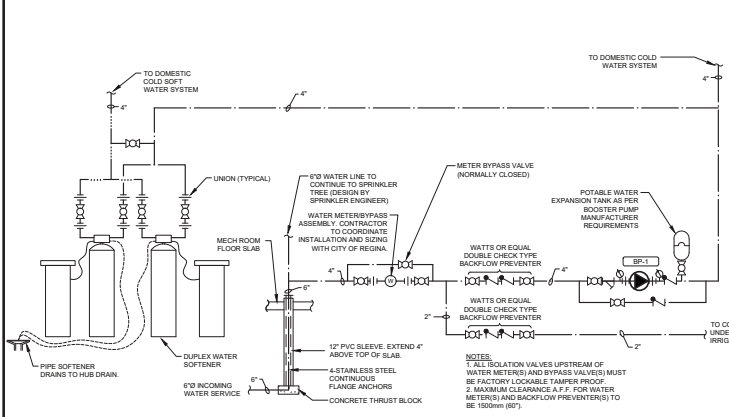
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| PROJECT: 245-039 | DRAWING NUMBER: |
| DATE: 01/20/2025 | M6.1 |
| SCALE: AS NOTED | |
| DRAWN: LR | |
| CHECKED: O.G. | REV# |

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| | | | | |
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| DWG REVISIONS: | NO. 9 | DATE: 01/20/2025 | ENGINEER: O.G. | DESCRIPTION: |
|----------------|-------|------------------|----------------|--------------|

MECHANICAL CONSULTANT:
P.S. Engineering Inc
Mechanical Consulting Engineers
306 Sauer Rise, Saskatoon, SK, S7W 0J9
Contact: Odner
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PROJECT NO. 245-039

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CLIENT:
JAMES ZIMMER ARCHITECT

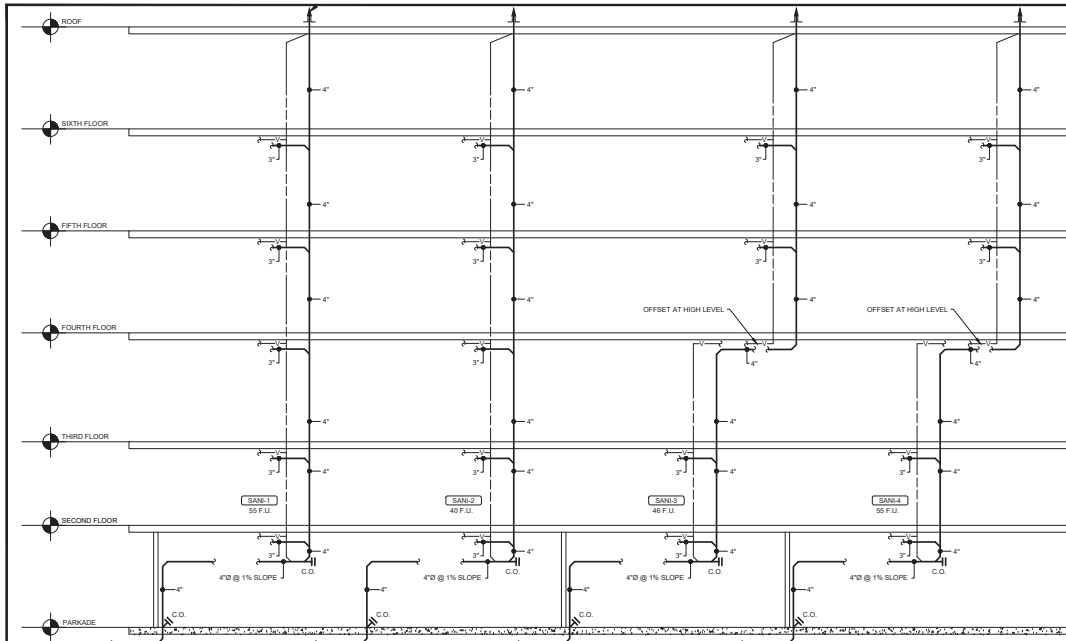
PROJECT:
PROPOSED SIX STORY APARTMENT WITH RETAIL

1202 COLLEGE DRIVE, SASKATOON, SASKATCHEWAN

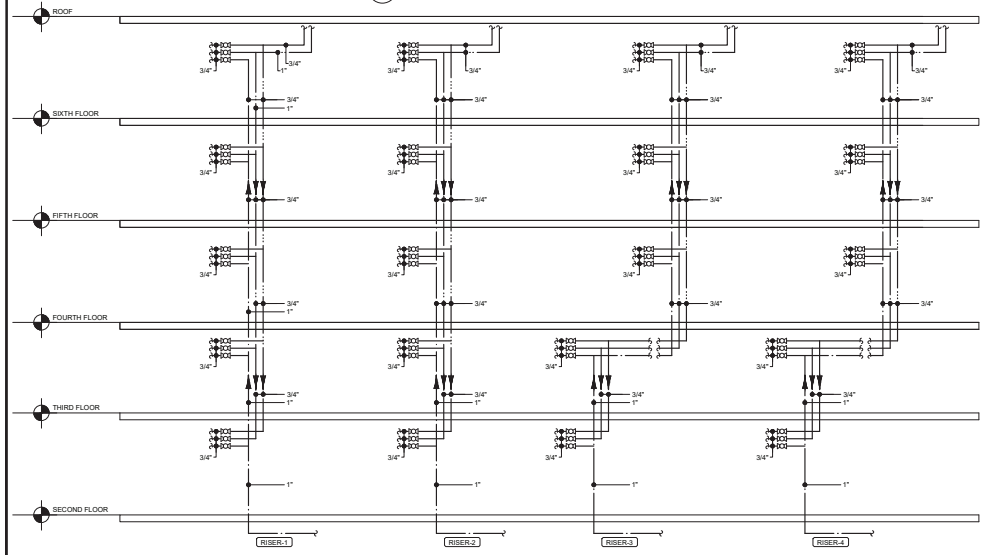
DRAWING TITLE:
MECHANICAL DETAILS CONT'D

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| PROJECT: 245-039 | DRAWING NUMBER: |
| DATE: 01/01/2025 | M6.2 |
| SCALE: AS NOTED | |
| DRAWN: LR | |
| CHECKED: O.D. | REV#: |

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| DWG REVISIONS: | NO. 9 | DATE: 01/02/2025 | ENGINEER: O.D. | DESCRIPTION: |
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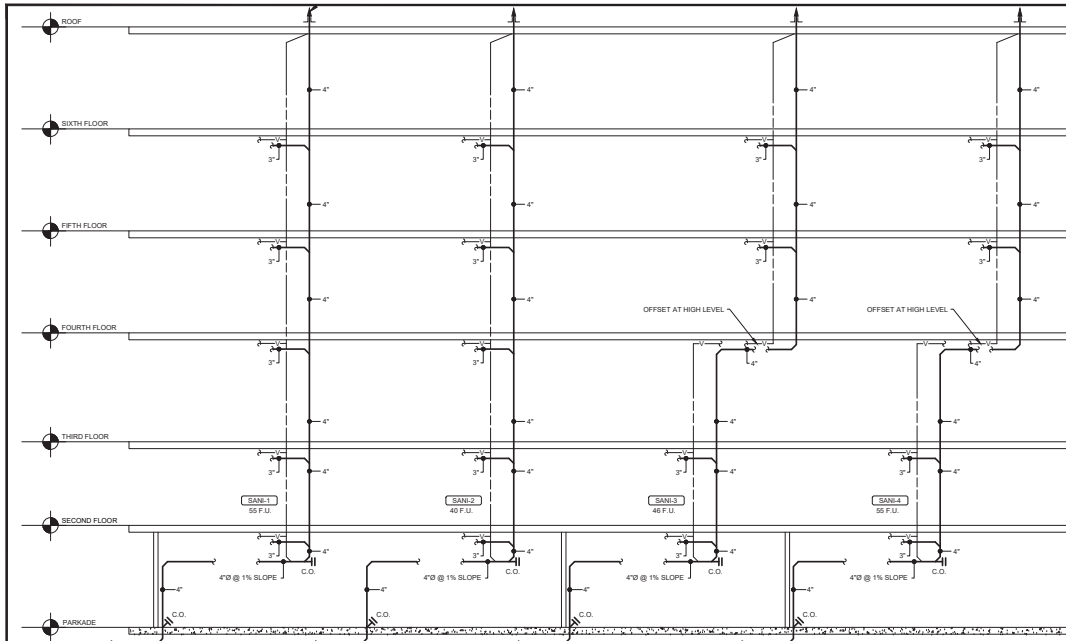
1 SANITARY DRAINAGE AND VENT RISER SCHEMATIC
ME.3 SCALE: N.T.S.



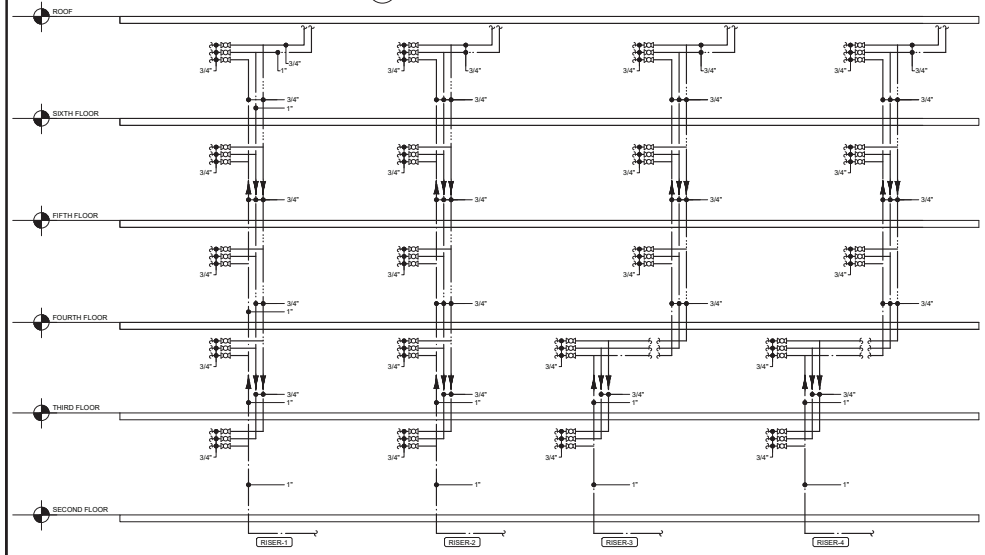
2 DOMESTIC WATER RISER SCHEMATIC
ME.3 SCALE: N.T.S.

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| MECHANICAL CONSULTANT: P.S. Engineering Inc Mechanical Consulting Engineers 306 Sauer Rise, Saskatoon, SK. S7W 0J9 Contact: Odner Phone : (306) 715-6788 Email : odner@pseng.ca PROJECT NO. 245.039 | | | | | | | | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|------------------|------------------|----------------|---------------|-------|-----------------------------------------------------------------------------------------------------------------------------|--|--|--|
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| CLIENT: JAMES ZIMMER ARCHITECT | | | | | | | | | | | |
| PROJECT: PROPOSED SIX STORY APARTMENT WITH RETAIL 1202 COLLEGE DRIVE, SASKATOON, SASKATCHEWAN | | | | | | | | | | | |
| DRAWING TITLE: SANITARY & DOMESTIC WATER RISER SCHEMATICS | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="font-size: 8px;">PROJECT 245.039</td> <td rowspan="4" style="text-align: center; vertical-align: middle;"> <div style="border: 1px solid black; padding: 2px; display: inline-block; font-weight: bold;">M6.3</div> </td> </tr> <tr> <td style="font-size: 8px;">DATE: 01/01/2025</td> </tr> <tr> <td style="font-size: 8px;">SCALE: AS NOTED</td> </tr> <tr> <td style="font-size: 8px;">DRAWN: LR</td> </tr> <tr> <td style="font-size: 8px;">CHECKED: D.O.</td> <td style="font-size: 8px;">REVS:</td> </tr> </table> | PROJECT 245.039 | <div style="border: 1px solid black; padding: 2px; display: inline-block; font-weight: bold;">M6.3</div> | DATE: 01/01/2025 | SCALE: AS NOTED | DRAWN: LR | CHECKED: D.O. | REVS: | DRAWING NUMBER: <div style="border: 1px solid black; padding: 2px; display: inline-block; font-weight: bold;">M6.3</div> | | | |
| PROJECT 245.039 | <div style="border: 1px solid black; padding: 2px; display: inline-block; font-weight: bold;">M6.3</div> | | | | | | | | | | |
| DATE: 01/01/2025 | | | | | | | | | | | |
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| DRAWN: LR | | | | | | | | | | | |
| CHECKED: D.O. | REVS: | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="font-size: 8px;">DWG REVISIONS</th> <th style="font-size: 8px;">NO. 9</th> <th style="font-size: 8px;">DATE: 01/01/2025</th> <th style="font-size: 8px;">ENGINEER: D.O.</th> <th style="font-size: 8px;">DESCRIPTION:</th> </tr> </thead> <tbody> <tr> <td style="height: 20px;"> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> | | DWG REVISIONS | NO. 9 | DATE: 01/01/2025 | ENGINEER: D.O. | DESCRIPTION: | | | | | |
| DWG REVISIONS | NO. 9 | DATE: 01/01/2025 | ENGINEER: D.O. | DESCRIPTION: | | | | | | | |
| | | | | | | | | | | | |



1 SANITARY DRAINAGE AND VENT RISER SCHEMATIC
SCALE: N.T.S.




2 DOMESTIC WATER RISER SCHEMATIC
SCALE: N.T.S.

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MECHANICAL CONSULTANT:

 P.S. Engineering Inc
 Mechanical Consulting Engineers
 306 Sauer Rise, Saskatoon, SK. S7W 0J9
 Contact: Odner
 Phone : (306) 715-6788
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 PROJECT NO. 245-039

PROFESSIONAL SEAL:


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CLIENT:
 JAMES ZIMMER ARCHITECT

PROJECT:
 PROPOSED SIX STORY APARTMENT WITH RETAIL
 1202 COLLEGE DRIVE, SASKATOON, SASKATCHEWAN

DRAWING TITLE:
 HEATING RISER SCHEMATICS

| | |
|------------------|-----------------|
| PROJECT: 245-039 | DRAWING NUMBER: |
| DATE: 01/20/2025 | M6.4 |
| SCALE: AS NOTED | |
| DRAWN: LR | |
| CHECKED: O.O | REV: 0 |

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| DWG REVISIONS: | NO. 9 | DATE: 01/20/2025 | ENGINEER: O.O | DESCRIPTION: |
|----------------|-------|------------------|---------------|--------------|



Read Jones Christoffersen Ltd. Engineers

220 20th Street West, Suite 112 Saskatoon, SK S7M 0V9 Canada tel: 306-908-2500

Table with 4 columns: SHOP DRAWINGS, ABBREVIATIONS, GENERAL, LIST OF STRUCTURAL DRAWINGS. Includes sections for DELEGATED DESIGN OF PRIMARY STRUCTURE COMPONENTS, DESIGN LOADS, DRAWINGS, and DRAWING SET COORDINATION.

Revision table with columns: No., Issued For, Revision, Date, By.

Drawings Notes: 1. All drawings, plans, models, designs, specifications and other documents prepared by Read Jones Christoffersen Ltd. (RJC) and used in connection with this project are the intellectual property of RJC...

2. These drawings are "design drawings" only. They may not be suitable for use as shop drawings. Use of these drawings as shop drawings for "shop drawings" is not permitted unless written permission containing specific conditions and limitations is obtained from RJC...

3. Use of these drawings is limited to that identified in the Issued/Revision column. Do not construct from these drawings unless marked "Issued for Construction" by RJC in the Issued/Revision column, and then only for the parts noted. The drawings shall not be used for "winning", "losing" or "padding" unless so indicated in the Issued/Revision column. "Padding" drawings are not complete and any prices based on such drawings must allow for this.

NOT FOR CONSTRUCTION

Project Name: PROPOSED COLLEGE DRIVE APARTMENTS

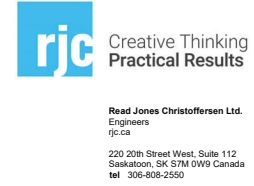
1202 COLLEGE DRIVE SASKATOON, SK

Sheet Title: GENERAL NOTES

Drawn By: PWW Scale: As Indicated
Designed By: PWW Date: 2024.12.20
RJC Project Number: SAS.138936.0001

Sheet Number: 1

2024-12-20 18:50:20



CONCRETE - STRENGTH AND EXPOSURE

| GENERAL (AREAS NOT INCLUDING PARKING) | | | |
|-----------------------------------------|------------------------------------------|----------------|---------------------------|
| ELEMENT | COMPRESSIVE STRENGTH (MPa) 28 DAY U.N.O. | EXPOSURE CLASS | COMMENTS |
| SLAB ON GRADE (INTERIOR) | 25 MPa | N | |
| SLAB ON GRADE (EXTERIOR) | 32 MPa | C-2 | |
| RETAINING WALLS / FOUNDATION WALLS | 25 MPa | F-2 | 10mm AGGREGATE |
| SHEAR WALLS | SEE SCHEDULE (56 DAY) | NF-2 | |
| OTHER WALLS | 25 MPa | NF-2 | |
| COLUMNS | SEE SCHEDULE (56 DAY) | NF-2 | |
| MECHANICAL HOUSEKEEPING PADS | 20 MPa | N | |
| SLABS AND BEAMS | 25 MPa (28 DAY) | N | |
| EXTERIOR EXPOSED BALCONIES AND EYEBROWS | 35 MPa | F-1 | SEE PLANS AND ARCH. DWGS. |

- NOTES:**
- WHERE EXPOSURE CLASS LISTED AS NF-1F-2:
 - USE N EXPOSURE FOR INTERIOR CONCRETE LOCATED WITHIN AN INSULATED BUILDING ENVELOPE (E.G. DRY AND NOT SUBJECT TO FREEZING AND THAWING).
 - USE F-1 EXPOSURE FOR HORIZONTAL AND SLOPED CONCRETE MEMBERS EXTERIOR TO THE BUILDING INSULATION AND NOT PROTECTED BY A MEMBRANE AND DRIP EDGE (E.G. WET AND SUBJECT TO FREEZING AND THAWING).
 - USE F-2 EXPOSURE FOR HORIZONTAL AND SLOPED CONCRETE MEMBERS EXTERIOR TO THE BUILDING INSULATION AND PROTECTED BY A MEMBRANE AND DRIP EDGE (E.G. DRY AND SUBJECT TO FREEZING AND THAWING).
 - USE F-2 FOR VERTICAL CONCRETE MEMBERS EXTERIOR TO THE BUILDING INSULATION.
 - CONCRETE STRENGTH AND EXPOSURE CLASS OF STAIRS AND RAMPS SHALL MEET THE MOST STRINGENT CRITERIA OF THE ADJOINING SLABS AND BEAMS UNLESS NOTED OTHERWISE.

| PARKING AREAS | | | |
|------------------------------------------------------------------------|------------------------------------------|----------------|----------|
| ELEMENT | COMPRESSIVE STRENGTH (MPa) 28 DAY U.N.O. | EXPOSURE CLASS | COMMENTS |
| REINFORCED SLAB ON GRADE | 35 MPa | C-1 | |
| ALL OTHER INTERIOR CONCRETE (SLABS, BEAMS, WALLS, COLUMNS, AND STAIRS) | SEE SCHEDULES (35 MPa MIN.) | C-1 | |

CONCRETE - SUPPLY, TESTING AND SUBMITTALS

- CONCRETE IS SPECIFIED AS PER THE "PERFORMANCE" ALTERNATE AS OUTLINED IN CSA A23.1.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR WORKING WITH THE CONCRETE SUPPLIER TO ENSURE THAT THE PLASTIC AND HARDENED MIX PROPERTIES MEET SITE REQUIREMENTS FOR PLACING, FINISHING, AND THE OWNERS' SPECIFIED PERFORMANCE REQUIREMENTS. THE GENERAL CONTRACTOR SHALL MEET THE DOCUMENTATION AND QUALITY CONTROL REQUIREMENTS OUTLINED UNDER THE "PERFORMANCE" ALTERNATE OF CSA A23.1.
- THE SUPPLIER SHALL MEET ALL CERTIFICATION AND DOCUMENTATION REQUIREMENTS AS OUTLINED UNDER THE "PERFORMANCE" ALTERNATIVE OF CSA A23.1.
- SUBMIT A MIX DESIGN REVIEW LETTER SIGNED AND SEALED BY A PROFESSIONAL ENGINEER CONCERNING THAT THE PROPOSED MIX DESIGN WILL ACHIEVE THE REQUIRED STRENGTH, DURABILITY, AND PERFORMANCE REQUIREMENTS INDICATED UNDER SUPPLIER RESPONSIBILITY - ITEM (g) OF TABLE 5 (ALTERNATIVE 1) OF CSA A23.1.
- AT THE REQUEST OF THE OWNER, THE SUPPLIER WILL FURNISH TEST DATA RESULTS (LESS THAN 3 MONTHS OLD) FOR EACH PROPOSED MIX DESIGN DEMONSTRATING THAT THEY MEET THE STRENGTH, DURABILITY, AND SHRINKAGE REQUIREMENTS SPECIFIED.
- THE CONCRETE SUPPLIER SHALL BE CERTIFIED BY THE READY MIXED CONCRETE ASSOCIATION OF SASKATCHEWAN.

GRADE BEAM REINFORCEMENT

- UNLESS OTHERWISE NOTED ALL GRADE BEAM REINFORCEMENT SHALL CONFORM TO THE FOLLOWING:
 - UP TO 16" WIDE:
 - OVER 16" WIDE:
- HOOK HORIZONTAL BEAM REINFORCING OR PROVIDE CORNER BARS AT ALL BEAM INTERSECTIONS AND CORNERS PER DETAILS CF130 & CF131.
- UNLESS NOTED OTHERWISE BEAM REINFORCEMENT SHALL BE CONTINUOUS:
 - TOP REINFORCEMENT SHALL BE SPLICED AT MIDSPAN AND SHALL HAVE LAPS OF 36" HOOK TOP REINFORCEMENT AT END SUPPORTS AND PROVIDE ADDITIONAL TOP BARS WHERE REINFORCEMENT IS INTERRUPTED BY RECESSED COLUMN OR BASEPLATE DETAILS.
 - BOTTOM REINFORCEMENT SHALL BE SPLICED AT PILE OR FOUNDATION LOCATIONS AND SHALL HAVE LAPS OF 30".
 - ALL REINFORCEMENT TO BE CONTINUOUS THROUGH PILE CAPS, FOUNDATIONS, OR INTERSECTING GRADE BEAMS.
- UNLESS OTHERWISE NOTED MAXIMUM LENGTH OF POUR SHALL NOT EXCEED 100'-0" LOCATIONS AND DETAILS OF CONSTRUCTION JOINTS SHALL BE SUBMITTED TO THE CONSULTANT FOR REVIEW PRIOR TO CONSTRUCTION.
- REFER TO STRUCTURAL DRAWINGS FOR DETAILS OF GRADE BEAM CONSTRUCTION JOINTS AND CONTROL JOINTS PER DETAIL CF132.
- TOP OF GRADE BEAM TO BE FLUSH WITH TOP OF END SUPPORT U.N.O.

CONCRETE - GENERAL

- UNLESS NOTED OTHERWISE, ALL CONCRETE IS TO BE CAST-IN-PLACE.
- THE USE OF SHOTCRETE REQUIRES APPROVAL BY THE STRUCTURAL ENGINEER. ANY COSTS ASSOCIATED WITH REDISIGN, CHANGES TO THE CONTRACT DOCUMENTS AND ANY ADDITIONAL TESTING AND CONTRACT ADMINISTRATION COSTS TO ACCOMMODATE SHOTCRETE IS TO BE PAID FOR BY THE CONTRACTOR.
- PORTLAND CEMENT SHALL BE TYPE GU OR GUL UNLESS NOTED OTHERWISE. ALL CONCRETE MIX SUBMITTALS MUST CLEARLY INDICATE THE SPECIFIC CEMENT TYPE TO BE UTILIZED, OR THE PROPORTIONS WHEN MULTIPLE CEMENT TYPES ARE UTILIZED IN THE SAME MIX.
- CEMENT TYPE AND SUPPLEMENTARY CEMENTING MATERIALS FOR EXPOSURE CLASSES S-1, S-2, AND S-3 SHALL BE AS OUTLINED IN CSA A23.1.
- CONCRETE SHALL HAVE A UNIT WEIGHT OF 2341 kN/m³ (14545 PCF) UNLESS NOTED OTHERWISE.
- THE CONCRETE PROPERTIES USED IN DESIGN ARE BASED ON A NOMINAL COARSE AGGREGATE SIZE OF 20 mm (3/4") ACCORDING TO TABLE 11 OF CSA A23.1. UNLESS NOTED OTHERWISE, ALL LOCATIONS PROPOSED BY THE CONTRACTOR FOR USE OF CONCRETE MIX DESIGNS WITH A NOMINAL COARSE AGGREGATE SIZE DIFFERENT THAN 20 mm (3/4") SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL. ANY INCREASE IN REQUIRED CONCRETE STRENGTH OR INCREASE IN QUANTITY OF REINFORCEMENT DUE TO PROPOSED USE OF CONCRETE MIX WITH DIFFERENT NOMINAL COARSE AGGREGATE SIZE TO BE PAID FOR BY THE CONTRACTOR.
- RECYCLED AGGREGATE IS NOT TO BE USED WITHOUT WRITTEN APPROVAL BY THE STRUCTURAL ENGINEER.
- SUMP AND AGGREGATE SIZE TO BE DETERMINED BY THE GENERAL CONTRACTOR AND SUPPLIER TO MEET PLACEMENT, AND FINISHING REQUIREMENTS WITHOUT SEGREGATION WHILE MEETING ALL OWNER SPECIFICATIONS.
- MAXIMUM WATER/CEMENT RATIO AND AIR CONTENT TO MEET THE REQUIREMENTS FOR THE EXPOSURE CLASS AS OUTLINED IN CSA A23.1. REQUIRED AIR CONTENT FOR EXPOSURE CLASSES F-1, F-2, C-1, C-2, AND C-XL SHALL BE BASED ON CONCRETE EXPOSED TO FREEZE-THAW CYCLES UNLESS NOTED OTHERWISE.
- CHLORIDE ION PENETRABILITY FOR EXPOSURE CLASS C-1 AND C-XL SHALL MEET THE REQUIREMENTS OF CSA A23.1.

HELICAL SCREW PILE FOUNDATIONS

- PILING SHALL BE PERFORMED BY FIRMS SPECIALIZING IN THE DESIGN AND INSTALLATION OF HELICAL SCREW PILE FOUNDATIONS. PROVIDE CERTIFICATION DOCUMENTS TO THE OWNER OR THEIR REPRESENTATIVE.
- PILING AND PILE DESIGN SHALL CONFORM TO THE NATIONAL BUILDING CODE OF CANADA 2020 AND TO COMMENTARY K OF THE "USERS GUIDE- NRC 2020 STRUCTURAL COMMENTARIES PART 4 - DIVISION BY. REFER TO PLANS FOR FACTORED PILE DESIGN LOADING REQUIREMENTS.
- UNDESPECIFIED LOADS, HELICAL SCREW PILES SHALL NOT SETTLE MORE THAN 5 mm. THIS REQUIREMENT SHALL BE CONFIRMED BY PILE TESTING AS OUTLINED BELOW:
 - LOAD TESTS SHALL BE PERFORMED TO VERIFY THE SUITABILITY AND CAPACITY OF THE PROPOSED SCREW PILE AND THE PROPOSED INSTALLATION PROCEDURES PRIOR TO INSTALLATION OF PRODUCTION PILES. TESTING SHALL CONFORM TO ASTA STANDARD D1143.
 - A MINIMUM OF ONE SACRIFICIAL TEST PILE WITH REACTION ANCHORS SHALL BE CONSTRUCTED PRIOR TO THE START OF WORK AT LOCATION AS DIRECTED BY THE OWNER.
 - TESTING SHALL BE USED TO VERIFY THE SCREW PILE DESIGN AND CONFIRM THAT PILE SETTLEMENT UNDER SPECIFIED LOADS DOES NOT EXCEED 5 mm.
 - PROVIDE THE OWNER COPIES OF FIELD TESTING REPORTS WITHIN 24 HOURS AFTER THE COMPLETION OF THE LOAD TEST. THIS WRITTEN DOCUMENT WILL EITHER CONFIRM THE LOAD CAPACITY AS REQUIRED ON THE DRAWINGS OR PROPOSE CHANGES BASED UPON THE RESULTS OF THE LOAD TEST.
 - ALL MATERIALS FORMING PART OF THE SCREW PILE ASSEMBLY SHALL STRICTLY ADHERE TO MANUFACTURERS REQUIREMENTS.
 - HELICAL BEARING PLATE, CENTRAL SHAFT (HEAD AND EXTENSION SECTIONS) AND ALL OTHER COMPONENTS IN CONTACT WITH THE SOIL SHALL BE HOT-DIPPED GALVANIZED.
 - SCREW PILES SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURERS INST. PLAN PROCEDURES.
 - SCREW PILES SHALL BE DRIVEN VERTICALLY WITH A VARIATION OF NOT MORE THAN 10 mm PER METRE. ALL HEADS SHALL BE WITHIN 75 mm OF THEIR SHOWN LOCATIONS. MINIMUM INSTALLATION TORQUE AND MINIMUM OVERALL LENGTH CRITERIA AS SHOWN ON THE WORKING DRAWINGS SHALL BE SATISFIED PRIOR TO TERMINATING THE SCREW PILE. IF THE SCREW PILE IS REFUSED OR DEFLECTED BY A SUBSURFACE OBSTRUCTION, THE INSTALLATION SHALL BE TERMINATED AND THE PILE REMOVED. THE OBSTRUCTION SHALL BE REMOVED AND THE SCREW PILE RE-INSTALLED. IF THE OBSTRUCTION CANNOT BE REMOVED, THE SCREW PILE SHALL BE INSTALLED AT AN ADJACENT LOCATION SUBJECT TO REVIEW AND ACCEPTANCE BY THE OWNER.
 - SCREW PILE CUT-OFF SHALL BE TRUE AND LEVEL WITHIN 25 mm OF THE SPECIFIED CUT-OFF ELEVATIONS.
 - SUBMIT SHOP DRAWINGS FOR ALL SCREW PILE COMPONENTS, INCLUDING CASING COMPONENTS AND PILE TOP ATTACHMENT. THIS INCLUDES SCREW PILE LEAD AND EXTENSION SECTION IDENTIFICATION. ALL SUBMITTALS SHALL BE SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE PROVINCE OF ALBERTA.
 - THE CONTRACTOR SHALL SUBMIT RECORD DRAWINGS SHOWING THE ACCURATE LOCATIONS AND DETAILS OF AS-BUILT PILES AND PROVIDE WRITTEN CONFIRMATION THAT AS-BUILT PILES HAVE BEEN INSTALLED IN CONFORMANCE WITH ENGINEERED SHOP DRAWINGS.

CONCRETE - FINISHING AND ADMIXTURES

- CURING OF CONCRETE TO MEET THE REQUIREMENTS FOR THE EXPOSURE CLASS AS OUTLINED IN CSA A23.1. CURING COMPOUNDS ARE NOT PERMITTED FOR SUSPENDED PARKING SLABS OR EXPOSURE CLASS C-XL CONCRETE. PARKING SLABS AND REINFORCED SLAB ON GRADES IN PARKING AREAS ARE TO BE CURED FOR MINIMUM 7 DAYS.
- CORROSION INHIBITORS ARE TO BE USED IN CONCRETE IN AREAS NOTED ON THE STRUCTURAL DRAWINGS, AS WELL AS IN STAIRS AND STAIR LANDINGS WITHIN PARKADES. USE 1.0 Litre of "DCI S" BY GRADE CONSTRUCTION PRODUCTS OR "MASTER-LE 3" BY BASF CONSTRUCTION CHEMICALS. ALTERNATIVELY, USE C-XL CONCRETE WITH CURING TYPE 3 (EXTENDED) PER CSA A23.1.
- ALL BOTTOM EDGES OF EXPOSED SLABS AND BEAMS, AS WELL AS EDGES OF WALLS AND COLUMNS, TO BE CHAMFERED 3/4" X 3/4". ALL TOP EDGES OF EXPOSED SLABS, BEAMS, UPSTANDS AND STAIRS TO BE TOOLED UNLESS NOTED OTHERWISE. SEE ALSO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR OTHER FINISH REQUIREMENTS.
- NO CALCIUM CHLORIDE IS PERMITTED, IN ANY FORM, IN ANY CONCRETE MIX WITHOUT THE EXPRESS WRITTEN CONSENT OF READ JONES CHRISTOFFERSEN LTD.
- CURING AND PROTECTION OF CONCRETE FOR HOT, COLD OR DRY WEATHER IS TO BE AS PER CSA A23.1 AS A MINIMUM. SEE ALSO "CONCRETE COLD WEATHER REQUIREMENTS" IN THE STRUCTURAL DRAWINGS.

NON-STRUCTURAL ELEMENTS

- "NON-STRUCTURAL" OR "SECONDARY STRUCTURAL" ELEMENTS ARE NOT PART OF THE STRUCTURAL DESIGN SHOWN ON THESE DRAWINGS. SUCH ELEMENTS ARE DESIGNED, DETAILED AND REVIEWED IN THE FIELD BY OTHERS. THEY APPEAR ON DRAWINGS OTHER THAN THESE DRAWINGS OF READ JONES CHRISTOFFERSEN LTD. WHERE STRUCTURAL ENGINEERING RESPONSIBILITY IS REQUIRED FOR THESE ELEMENTS. THIS SHALL BE PROVIDED BY QUALIFIED STRUCTURAL ENGINEERS, WHO SHALL PREPARE ALL SUBMITTALS UNDER THEIR SEAL AND SIGNATURE AND ALSO PROVIDE ANY LETTERS REQUIRED BY BUILDING PERMIT AUTHORITIES.
- EXAMPLES OF NON-STRUCTURAL ELEMENTS INCLUDE, BUT ARE NOT LIMITED TO:
 - ARCHITECTURAL COMPONENTS SUCH AS GUARDRAILS, HANDRAILS, FLAG POLES, CANOPIES, CEILING, MILLWORK, ETC.
 - LANDSCAPE ELEMENTS SUCH AS BENCHES, LIGHT POSTS, PLANTERS, PAVERS, SUPPORT PEDESTALS, ETC.
 - CLADDING, GLAZING, WINDOW MULLIONS, INTERIOR STUD WALLS AND EXTERIOR STUD WALLS.
 - ARCHITECTURAL PRECAST, PRECAST CLADDING.
 - SIGNLIGHTS.
 - MECHANICAL AND ELECTRICAL EQUIPMENT, COMPONENTS, AND THEIR ATTACHMENT DETAILS.
 - WINDOW WASHING EQUIPMENT AND ITS ATTACHMENTS.
 - FALL PROTECTION AND FALL ARREST SYSTEMS AND THEIR ATTACHMENTS.
 - ESCALATORS, ELEVATORS AND CONVEYING SYSTEMS.
 - GLASS BLOCK AND ITS ATTACHMENTS.
 - BRICK OR BLOCK VENEERS AND THEIR ATTACHMENTS.
 - DESIGN AND FIELD REVIEW OF SEISMIC RESTRAINT FOR SECONDARY STRUCTURAL ELEMENTS AND OPERATIONAL AND FUNCTIONAL COMPONENTS INCLUDING MECHANICAL AND ELECTRICAL EQUIPMENT.
 - NON-STRUCTURAL CONCRETE TOPPING.
 - DESIGN AND FIELD REVIEW OF NON-LOAD BEARING MASONRY.
- DESIGNS PRODUCED BY THE SPECIALTY ENGINEER SHALL CONSIDER STRENGTH, STABILITY, SERVICEABILITY AND INTEGRITY REQUIREMENTS UNDER DESIGN AND SEISMIC LOADING IN ACCORDANCE WITH THE CURRENT EDITION OF APPLICABLE DESIGN CODES AND ALL OTHER DESIGN REQUIREMENTS INDICATED IN THE DRAWINGS AND SPECIFICATIONS.
- CONTRACTOR SHALL COORDINATE THE DESIGN OF ALL NON-STRUCTURAL ELEMENTS DESIGNED BY ONE OR MORE SPECIALTY ENGINEERS AND CONNECTING TO ELEMENTS DESIGNED BY OTHER SPECIALTY ENGINEERS TO ENSURE THE STRENGTH, STABILITY, SERVICEABILITY AND INTEGRITY OF THE FINAL CONSTRUCTION.
- SHOP DRAWINGS FOR NON-STRUCTURAL ELEMENTS WHICH MAY AFFECT THE PRIMARY STRUCTURAL SYSTEM SHALL BE SUBMITTED TO READ JONES CHRISTOFFERSEN LTD. INDICATE CLEARLY THE METHOD OF ATTACHMENT AND MAGNITUDE OF ALL FORCES (SPECIFIED AND FACTORED) THAT THE STRUCTURE MUST WITHSTAND. THESE DRAWINGS WILL BE REVIEWED ONLY FOR THE EFFECT OF THE ELEMENT ON THE PRIMARY STRUCTURAL SYSTEM.

STRUCTURAL MOVEMENTS

- THIS STRUCTURE WILL UNDERGO NORMAL TYPES OF MOVEMENT AND DEFLECTION, AND THE FOLLOWING ARE ESTIMATES FOR THIS STRUCTURE. NON-STRUCTURAL COMPONENTS MUST BE DETAILED TO ACCOMMODATE THIS DESIGN, DETAILING AND FIELD REVIEW OF THESE NON-STRUCTURAL ELEMENTS IS BY OTHERS, AND NOT READ JONES CHRISTOFFERSEN LTD.
- DIFFERENTIAL VERTICAL MOVEMENTS BETWEEN ADJACENT COLUMNS AND BETWEEN ADJACENT COLUMNS AND WALLS = APPROXIMATELY 3/4".
 - VERTICAL DEFLECTION OF COLUMNS AND WALLS DUE TO SHRINKAGE AND CREEP = APPROXIMATELY 0.10" PER 12'-0" OF HEIGHT.
 - VERTICAL DEFLECTIONS OF EDGE BEAMS AND EDGES OF SLABS = APPROXIMATELY 1". DIFFERENTIAL DEFLECTIONS OF EDGE BEAMS AND EDGES OF SLABS = ± 5/8".
 - VERTICAL DEFLECTIONS AT INTERIOR OF FLOORS = APPROXIMATELY 1". DIFFERENTIAL DEFLECTIONS AT INTERIOR OF FLOORS = ± 5/8".
 - HORIZONTAL DRIFT DURING WIND AND EARTHQUAKE BETWEEN FLOORS:
 - ± 1/2" DRIFT WITHOUT DAMAGE TO NON-STRUCTURAL COMPONENTS.
 - ± 2" DRIFT WITHOUT COLLAPSE OF NON-STRUCTURAL COMPONENTS.
- ALL STRUCTURES ARE ALSO SUBJECT TO CONSTRUCTION TOLERANCES. THIS SHOULD BE ALLOWED FOR IN DETAILING NON-STRUCTURAL COMPONENTS IN ADDITION TO THE ABOVE MOVEMENTS.

EXCAVATIONS & SHORING

- DESIGN AND FIELD REVIEW OF EXCAVATION, SHORING, AND BACKFILL IS NOT WITHIN THE SCOPE OF READ JONES CHRISTOFFERSEN'S WORK.

SUB-GRADE NOTES

- REFER TO GEOTECHNICAL REPORT FOR OTHER SPECIFIC DESIGN REQUIREMENTS FOR FOUNDATIONS, SOIL SLOPES, FROST PROTECTION, MINIMUM COVER, ETC.
- FOR GROUND ELEVATIONS AND DRAINAGE SLOPES, SEE ARCHITECTURAL & CIVIL DRAWINGS.
- REMOVE ALL ORGANIC MATERIAL FROM THE BUILDING AREA AS OUTLINED IN THE GEOTECHNICAL REPORT.
- REMOVE ALL LOOSE OR SATURATED MATERIAL AND GROUNDWATER FROM THE BASE OF FOOTING EXCAVATION BY APPROVED METHODS PRIOR TO PLACING FOUNDATIONS.
- BEARING SURFACES MUST BE APPROVED BY THE GEOTECHNICAL ENGINEER IMMEDIATELY BEFORE CASTING OF CONCRETE FOR FOUNDATIONS OR SLAB ON GRADE. RJC IS NOT RESPONSIBLE FOR CONFIRMING BEARING CAPACITIES OF SOILS.
- PROTECT EXCAVATIONS FOR FOOTINGS FROM RAIN, SNOW, FREEZING TEMPERATURES, STANDING WATER, LOSS OF MOISTURE AND DEGRADATION BY APPROVED METHODS.
- SHOULD WATER OR FROST, ENTER A FOOTING EXCAVATION AFTER SUB-GRADE APPROVAL, THE SUB-GRADE SHALL BE RE-INSPECTED BY THE GEOTECHNICAL ENGINEER AFTER REMOVAL OF THE WATER OR FROST.

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|-----|-----------------------|------------|-----|
| | Revision | Date | By |

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Seal

NOT FOR CONSTRUCTION

Project Name
PROPOSED COLLEGE DRIVE APARTMENTS

1202 COLLEGE DRIVE SASKATOON, SK

Sheet Title
GENERAL NOTES

| Drawn By | KML | Scale | As Issued |
|--------------------|------------------------|-------|------------|
| Designed By | PWM | Date | 2024.12.20 |
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CONCRETE FORMWORK STRIPPING AND SHORING

- THE DESIGN AND FIELD REVIEW OF FORMWORK, SHORING AND RESHORING IS THE RESPONSIBILITY OF THE CONTRACTOR. RESHORING DRAWINGS SHALL BE SUBMITTED TO RJC FOR THE EFFECT ON THE BASE BUILDING STRUCTURE ONLY.
- NO COLUMN OR WALL FORMS SHALL BE REMOVED BEFORE CONCRETE HAS REACHED 10 MPa FOR ARCHITECTURAL CONCRETE OR 8 MPa FOR OTHER COLUMNS OR WALLS.
- NO SLABFORMS OR BEAMFORMS SHALL BE REMOVED BEFORE CONCRETE HAS REACHED 75% OF THE 28 DAY STRENGTH BEFORE STRIPPING AND RESHORING.
- STRENGTH OF CONCRETE FOR STRIPPING TO BE DETERMINED USING CYLINDERS STORED ON SITE IN A PROTECTED ENCLOSURE THAT MAINTAINS A SIMILAR TEMPERATURE AND HUMIDITY AS THE STRUCTURAL ELEMENTS REPRESENTED. ALTERNATE METHODS, IF ACCEPTABLE TO RJC, MAY BE USED.
- ALL SLABS, BEAMS, GRIDDERS ETC. TO BE SHORED OR RESHORED UNTIL CONCRETE REACHES DESIGN STRENGTH BUT NOT LESS THAN 21 DAYS.
- NO CONCRETE MAY BE REMOVED WITH PERCUSSIVE METHODS SUCH AS CHIPPING OR JACK-HAMMERING WITHOUT PRIOR APPROVAL BY RJC.
- THE DESIGN OF THE SLABS / FLOORS TO SATISFY THE 'STRUCTURAL MOVEMENT' NOTE ASSUMES THE FOLLOWING TYPICAL PRACTICE FOR SHORING AND RESHORING (U.O.):
 - COMMON / TYPICAL CONSTRUCTION PRACTICE TO SHORE THE FRESH WEIGHT OF FLOORS HAS BEEN ASSUMED.
 - LOADING APPLIED TO COMPONENTS OF THE BASE BUILDING STRUCTURE (SLABS, COLUMNS, ETC.) BY THE FORMWORK, SHORES, OR RESHORES SHALL NOT EXCEED THE DESIGN LOAD FOR THOSE BASE BUILDING COMPONENTS. WHEN THIS LOADING IS APPLIED BEFORE THE CONCRETE STRENGTH IN THE BASE BUILDING COMPONENTS HAS REACHED THE SPECIFIED COMPRESSIVE STRENGTH, PRIORITIZE THE COMPONENT CAPACITY BY THE RATIO OF ACTUAL CONCRETE STRENGTH TO SPECIFIED CONCRETE STRENGTH.
 - AT NO TIME SHALL THE FACTORED CONSTRUCTION LOAD EXCEED THE FACTORED DESIGN LOAD ON FLOORS.
 - VERIFICATION OF ALL SUBGRADE MATERIALS WHICH PROVIDE SUPPORT TO TEMPORARY WORKS, INCLUDING SHORING, AND DESIGN OF ANY ASSOCIATED GROUND IMPROVEMENTS ARE THE RESPONSIBILITY OF THE CONTRACTOR'S SPECIALTY GEOTECHNICAL ENGINEER.
- USE OF ALTERNATE SHORING AND RESHORING METHODS FOR SLABS / FLOORS PROPOSED BY THE CONTRACTOR'S SPECIALTY ENGINEER TO BE SUBMITTED TO RJC FOR REVIEW AGAINST THE BASE BUILDING DESIGN ASSUMPTIONS. SUCH REVIEW BY RJC DOES NOT RELIEVE THE CONTRACTOR OR THE CONTRACTOR'S SPECIALTY ENGINEER OF THEIR RESPONSIBILITY TO ESTABLISH THE MEANS AND METHODS OF CONSTRUCTION THAT SATISFIES ALL REQUIREMENTS OF STRENGTH, STABILITY, SERVICEABILITY AND CONSTRUCTION SAFETY.

CONDUITS, PIPES, AND SLEEVES EMBEDDED IN CONCRETE - SLABS

REFER TO CONDUITS, PIPES, AND SLEEVES EMBEDDED IN CONCRETE - GENERAL FOR ADDITIONAL REQUIREMENTS

- SUSPENDED SLABS:
 - GUIDELINES FOR CONDUIT SPACING REQUIREMENTS PARALLEL TO THE PLANE OF THE SLAB:
 - LOCATE CONDUIT BETWEEN TOP AND BOTTOM REINFORCING. CONDUIT DIAMETER IN ONE LAYER SHALL NOT EXCEED 1/4 CONCRETE SLAB THICKNESS.
 - THREE LAYERS OR MORE CROSSING SHALL NOT BE PERMITTED.
 - CENTRAL SPACING OF CONDUITS AND PIPES TO BE NOT LESS THAN 3 DIAMETERS (4" CLEAR MINIMUM), UNLESS NOTED OTHERWISE.
 - GUIDELINES FOR IN-SLAB CONDUIT SPACING IN RELATION TO COLUMNS, WALLS, BEAMS, ETC.:
 - NO IN-SLAB CONDUIT OR PIPES WITHIN 2'-0" OR 3 X SLAB THICKNESS OF HEADED STUD ASSEMBLY, UNLESS APPROVED IN WRITING BY RJC. WHERE SUCH APPROVAL IS GIVEN, IN-SLAB CONDUIT OR PIPES SHALL NOT BE ADJACENT TO STUD SHAFT AND SHALL NOT BE WITHIN 2 DIAMETERS CLEAR (1" MINIMUM) OF ANY STUD HEAD.
 - NO IN-SLAB CONDUIT OR PIPES CLOSER THAN 3 X SLAB THICKNESS (2'-0" MINIMUM) FROM ANY FACE OF SHEAR WALLS AND END FACE OR TIED ZONES IN NON-SHEAR WALLS.
 - NO IN-SLAB CONDUIT OR PIPES CLOSER THAN BEAM DEPTH (2'-8" MINIMUM) FROM COLUMN FACE AT BEAMS.
- GUIDELINES FOR EMBEDDED BOXES AND SLEEVES PERPENDICULAR TO THE PLANE OF THE SLAB:
 - SPACING OF SLEEVES AND EMBEDDED BOXES TO BE NOT LESS THAN THE FOLLOWING:
 - WHERE TOP SLAB BARS GO BETWEEN SLEEVES, ADD 1-15M TOP EACH SIDE OF SLEEVES IN PERPENDICULAR DIRECTION. EXTEND 1'-8" MINIMUM SPOT SLEEVES.
 - SLEEVES AND EMBEDDED BOXES IN FLAT SLABS AND FLAT PLATES NOT TO BE LOCATED NEXT TO COLUMNS UNLESS APPROVED BY RJC IN WRITING.
 - CLEAR DIMENSION FOR SLEEVES AND EMBEDDED BOXES TO COLUMNS TO BE 4" MINIMUM UNLESS NOTED OTHERWISE ON STRUCTURAL DRAWINGS.
 - CLEAR DIMENSION OF ALL SLEEVES AND EMBEDDED BOXES TO ANY HEADED STUD ASSEMBLY SHALL NOT BE LESS THAN 2 X SLAB THICKNESS (12" MINIMUM) UNLESS NOTED OTHERWISE.

CONCRETE COLD WEATHER REQUIREMENTS (CAST-IN-PLACE AND SHOTCRETE)

(SEE ALSO CSA A23.1, EXCEPT THE FOLLOWING MINIMUM REQUIREMENTS MUST ALSO BE MET)

- FORECASTED AIR TEMPERATURE AT OR BELOW 5°C:
 - THE AGGREGATE OR MIXING WATER SHALL BE HEATED TO MAINTAIN A MINIMUM CONCRETE TEMPERATURE OF 10°C AT POINT OF POUR.
 - CONCRETE SHALL NOT BE PLACED ON OR AGAINST ANY SURFACE WHICH IS AT A TEMPERATURE LESS THAN 5°C.
 - CONTRACTOR SHALL BE PREPARED TO COVER SLABS IF UNEXPECTED DROP IN AIR TEMPERATURE SHOULD OCCUR.
 - CONCRETE EXPOSURE CLASSES REQUIRING CURING TYPE 1 (BASIC) IN ACCORDANCE WITH CSA A23.1 SHALL HAVE THE CONCRETE TEMPERATURE MAINTAINED ABOVE 10°C FOR AT LEAST 7 DAYS OR UNTIL THE CONCRETE REACHES 70% OF SPECIFIED STRENGTH.
 - CONCRETE EXPOSURE CLASSES REQUIRING CURING TYPE 2 (ADDITIONAL CURING) OR CURING TYPE 3 (EXTENDED WET CURING) IN ACCORDANCE WITH CSA A23.1 SHALL HAVE THE CONCRETE TEMPERATURE MAINTAINED ABOVE 10°C FOR AT LEAST THE DURATION INDICATED IN THE STANDARD.
- FORECASTED AIR TEMPERATURE BELOW 2°C BUT NOT BELOW -4°C:

(NOTE: FOR THESE CONDITIONS STRUCTURAL CONCRETE TOPPING ON METAL DECK SHALL SATISFY THE REQUIREMENTS OF NOTE 3.)

FOLLOW REQUIREMENTS OF NOTES 1A, 1B, 1D, 1E, AND:

 - FORMS AND STEEL SHALL BE FREE FROM ICE AND SNOW.
 - SLABS SHALL BE COVERED WITH CANVAS OR SIMILAR, KEPT A FEW INCHES CLEAR OF SURFACE.
 - IN WINDY WEATHER, STOREY BELOW SLAB SHALL BE ENCLOSED.
 - PROTECTION SHALL BE MAINTAINED FOR AT LEAST THE SPECIFIED CURING PERIOD.
- FORECASTED AIR TEMPERATURE BELOW -4°C:

FOLLOW REQUIREMENTS OF NOTES 1A, 1B, 2A, 2B, AND:

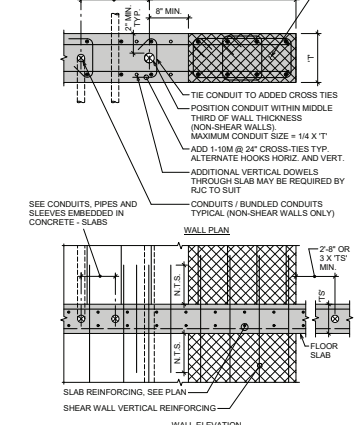
 - STOREY BELOW SHALL BE ENCLOSED AND ARTIFICIAL HEAT PROVIDED. HEATING TO BE STARTED AT LEAST ONE HOUR AHEAD OF POURING AND MAINTAINED FOR A MINIMUM OF THE SPECIFIED CURING PERIOD.
 - TEMPERATURE OF THE CONCRETE AT ALL SURFACES SHALL BE KEPT AT A MINIMUM OF 20°C FOR 3 DAYS, OR 10°C FOR 7 DAYS. CONCRETE SHALL BE KEPT ABOVE FREEZING TEMPERATURES UNTIL IT REACHES 70% OF ITS SPECIFIED STRENGTH.
 - ENCLOSURE MUST BE CONSTRUCTED SO THAT AIR CAN CIRCULATE OUTSIDE THE OUTER EDGES AND MEMBERS.
 - REINFORCING TO BE COVERED AND WARMED TO MAINTAIN ITS TEMPERATURE AT 0°C OR HIGHER AT THE TIME OF CONCRETE PLACEMENT.

CONDUITS, PIPES, AND SLEEVES EMBEDDED IN CONCRETE - WALLS

REFER TO CONDUITS, PIPES, AND SLEEVES EMBEDDED IN CONCRETE - GENERAL FOR ADDITIONAL REQUIREMENTS

- WALLS AND SHEAR WALLS:
 - BOXES, CONDUIT, SLEEVES OR EMBEDDED PIPES ARE NOT ALLOWED WITHOUT THE WRITTEN APPROVAL OF RJC.
 - CONTRACTOR MUST SUBMIT SHOP DRAWINGS SHOWING PROPOSED DETAILS OF ALL EMBEDMENTS (CONDUIT, BOXES, ETC.) AND OPENINGS IN SHEAR WALLS AND NON-SHEAR WALLS FOR REVIEW A MINIMUM OF 21 DAYS BEFORE START OF WALL CONSTRUCTION AT ANY LEVEL. SHOP DRAWINGS TO INCLUDE PROPOSED CONDUIT O.D., QUANTITY, LOCATION AND REQUIRED BOX-TYPES, STRAIN RELIEF LOOPS, ETC. FOR PRICING AND TENDER PURPOSES. THE CONTRACTOR SHALL NOT ASSUME THAT VERTICAL WALL RUNS WILL BE PERMITTED OR THAT ANY STRUCTURAL PROVISIONS TO ACCOMMODATE VERTICAL WALL RUNS HAVE BEEN MADE.
 - GUIDELINES FOR CONDUIT, SLEEVES, OR EMBEDDED PIPES IN NON-SHEAR WALLS:
 - MAXIMUM DIAMETER = 1/4 WALL THICKNESS.
 - NO HORIZONTAL RUNS PERMITTED UNLESS NOTED OTHERWISE ON WALL ELEVATIONS OR DETAILS.
 - VERTICAL RUNS TO HAVE MINIMUM 2" CONCRETE COVER.
 - VERTICAL RUNS SHALL HAVE MINIMUM SPACING IN PLANE OF WALL OR PERPENDICULAR TO PLANE OF WALL OF 4 DIAMETERS (12" MINIMUM).

NO CONDUITS, SLEEVES, OR PIPES THROUGH ZONE AREAS OF SHEAR WALLS AND NON-SHEAR WALLS WITHOUT PRIOR WRITTEN APPROVAL OF RJC (AREA HATCHED).



CONCRETE REINFORCEMENT

- REINFORCEMENT SHALL CONFORM TO THE FOLLOWING STANDARDS:
 - 10M AND LARGER (U.N.D.) - CSA G30.18 GRADE 400R
 - WELDED WIRE REINFORCEMENT - ASTM A1064
 - ALL REINFORCING THAT WILL BE WELDED - CSA G30.18 GRADE 400W
- DO NOT SUBSTITUTE DEFORMED WIRE FOR REINFORCING BARS WITHOUT PRIOR APPROVAL OF THE RJC.
- SUPPORT REINFORCING WITH CHAIRS, ACCESSORIES, OR REINFORCING BARS AS REQUIRED. BARS USED AS SUPPORT BARS SHALL BE CONSIDERED AS ACCESSORIES.
- PROVIDE SUFFICIENT SUPPORTS TO MAINTAIN CONCRETE COVER AS SPECIFIED. ALL SUPPORTS AND BARS MUST BE TIED TOGETHER TO MAINTAIN REINFORCING STEEL SECURELY IN PLACE DURING CONCRETE PLACEMENT.
- SEE STRUCTURAL DRAWINGS FOR EXTENT OF EPOXY COATED REBAR.
- TESTING OF REINFORCING STEEL SHALL CONFORM TO THE SPECIFICATIONS.

CONDUITS, PIPES, AND SLEEVES EMBEDDED IN CONCRETE - GENERAL

EXCEPT WHEN APPROVED BY RJC, PIPES, CONDUITS, AND SLEEVES EMBEDDED IN CONCRETE SHALL BE INSTALLED IN ACCORDANCE WITH CSA A23.1 CLAUSE 6.7.5 AND THE FOLLOWING GUIDELINES:

- GENERAL:
 - SLEEVING DRAWINGS FOR THE FOLLOWING ELEMENTS AND THOSE NOTED ON PLANS AND SECTIONS SHALL BE SUBMITTED TO RJC FOR REVIEW PRIOR TO CONSTRUCTION:
 - ALL ELEMENTS
 - SLABS AND SLAB BEAMS
 - BEAMS AND GRADE BEAMS
 - WALLS AND SHEAR WALLS
 - NOT WITHSTANDING THE SATISFYING OF THESE GUIDELINES, THE CONDUITS, SLEEVES, PIPES, ETC. SHALL MEET THE RJC SPACING REQUIREMENTS NOTED AND SHALL NOT REDUCE THE STRUCTURAL CAPACITY.
 - CONTRACTOR SHALL MINIMIZE QUANTITY AND SIZE OF IN-SLAB CONDUITS AND EMBEDDED BOXES TO LEAST AMOUNT POSSIBLE, INCLUDING COMBINING DATA AND TELECOM CABLES COMMON CONDUITS WHERE PERMITTED BY CODES AND APPROVED BY THE ELECTRICAL ENGINEER.
 - THE CONSULTANT RESERVES THE RIGHT, AT NO EXTRA COST TO THE OWNER TO:
 - HIGHLIGHT ITEMS NOT MEETING THE SPACING REQUIREMENTS WHICH MUST BE CORRECTED PRIOR TO PROCEEDING WITH PLACEMENT OF CONCRETE.
 - ADD REINFORCING AT POINTS OF CONGESTION
 - LOCALLY INCREASE THE THICKNESS OF THE SLAB OR INCREASE THE SPECIFIED CONCRETE STRENGTH AS REQUIRED.
 - REQUEST THE USE OF 10mm AGGREGATE (PEA GRAVEL) TO ACHIEVE PROPER CONSOLIDATION.

CONDUITS, PIPES, AND SLEEVES EMBEDDED IN CONCRETE - COLUMNS AND BEAMS

REFER TO CONDUITS, PIPES, AND SLEEVES EMBEDDED IN CONCRETE - GENERAL FOR ADDITIONAL REQUIREMENTS

- COLUMNS:
 - BOXES, CONDUIT, SLEEVES OR EMBEDDED PIPES ARE NOT ALLOWED WITHOUT THE WRITTEN APPROVAL OF RJC.
 - WHERE ACCEPTED BY RJC, THE TOTAL AREA OF EMBEDDED CONDUITS OR FITTINGS SHALL NOT EXCEED 1% OF GROSS COLUMN AREA. SECURE CONDUITS TO COLUMNS. LOCATE AS CLOSE TO CENTER OF SECTION AS POSSIBLE. DO NOT THE ALONG VERTICAL BAR.
- BEAMS:
 - THE TOTAL MAXIMUM SIZE OF HORIZONTAL CONDUIT OR PIPES PARALLEL TO THE BEAM NOT TO EXCEED 4% OF THE AREA.
 - NO SLEEVES OR EMBEDDED BOXES ALLOWED IN ANY BEAMS OR SLAB BEAMS UNLESS APPROVED IN WRITING BY RJC.

CONCRETE CONSTRUCTION TOLERANCES

(TOLERANCES AS PER CSA A23.1, EXCEPT AS NOTED BELOW)

CLOSER TOLERANCES SHALL BE MAINTAINED WHERE ARCHITECTURAL DETAILS OR OTHERS REQUIRE.

WHERE ANY DEVIATION OCCURS, AND IT IS ACCEPTABLE TO THE ENGINEER AND ARCHITECT, THE CONTRACTOR IS RESPONSIBLE FOR ADJUSTMENT OF OTHER BUILDING ELEMENTS TO ACCOMMODATE SUCH DEVIATION. COSTS FOR REMEDIAL WORK FOR DEVIATIONS NOT ACCEPTED SHALL BE BORNE BY THE CONTRACTOR.

- VARIATION FROM THE PLUMB:
 - IN THE LINES AND SURFACES OF COLUMNS, PIERS, WALLS AND IN ARRISES: 0.25% OF HEIGHT (1 IN 400), MAXIMUM 1/2" OVER THE ENTIRE HEIGHT OF THE STRUCTURE.
 - ONLY ONE CURVATURE ALLOWED PER 10'-0".
 - THE TOLERANCE GIVEN IS THE MAXIMUM VARIATION FROM A PLUMB LINE.
 - ALL MEASUREMENTS SHALL BE TO THE SAME SIDE OF THE PLUMB LINE.
 - UNLESS SPECIFIED ELSEWHERE IN THE CONSTRUCTION DOCUMENTS - THE TOLERANCES FOR EXPOSED CORNER COLUMNS, CONTROL JOINT GROOVES, AND OTHER CONSPICUOUS LINES SHALL BE: (SEE ALSO ELEVATOR SHOP DRAWINGS, ETC.)
 - 0.125% OF HEIGHT (1 IN 800), MAXIMUM 3/4".
 - ONLY ONE CURVATURE ALLOWED PER 20'-0".
 - MAXIMUM VARIATION IN WINDOW BAYS 0.2% OF OPENING.
- UNLESS SPECIFIED ELSEWHERE, FLOOR FINISHES SHALL BE CLASS A "CONVENTIONAL SLAB ON GRADE AND ELEVATED FLOORS" WITH AN OVERALL FINISH NUMBER OF F-20 & F-15.
 - CLOSER TOLERANCES MAY BE REQUIRED TO GIVE THE QUALITY OF FINISH FLOOR SURFACES CALLED FOR ELSEWHERE IN THE CONTRACT DOCUMENTS.
- VARIATIONS OF STRUCTURAL CONCRETE ELEMENTS RELATED TO EACH OTHER AND RELATIVE TO A REFERENCED GRID SYSTEM FOR PLAN DIMENSIONS TO MEET CSA A23.1.
 - ONLY ONE CURVATURE ALLOWED PER 10'-0".
- THE ABOVE REQUIREMENTS DO NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY OF MEETING MORE RIGID REQUIREMENTS SPECIFIED ELSEWHERE IN THE CONSTRUCTION DOCUMENTS OR AS REQUIRED BY EQUIPMENT SHOP DRAWINGS OR SPECIFICATIONS SUCH AS THOSE FOR ELEVATORS, ETC.

| No. | ISSUED FOR 50% REVIEW | 2024.12.20 | KML |
|-----|-----------------------|------------|-----|
| | Revision | Date | By |

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NOT FOR CONSTRUCTION

Project Name
PROPOSED COLLEGE DRIVE APARTMENTS

1202 COLLEGE DRIVE SASKATOON, SK

Sheet Title
GENERAL NOTES

| Drawn By | PWM | Scale | As Indicated |
|--------------------|------------------------|-------|--------------|
| Designed by | KML | Date | 2024.12.20 |
| RJC Project Number | SAS.138936.0001 | | |
| Sheet Number | Revision | | |

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TYPICAL ADDITIONAL REINFORCEMENT FOR WALL OPENINGS UP TO 2'-6" X 2'-6" MAXIMUM SIZE

NOTE: FOR LARGER OPENINGS SEE REINFORCEMENT ON WALL ELEVATIONS.

- ### COLUMNS
- UNLESS NOTED OTHERWISE, CONCRETE STRENGTH IN COLUMNS IS INDICATED IN COLUMN SCHEDULE.
 - THE COLUMN CAGES TO FORMS AND SQUARE BEFORE PLACING CONCRETE.
 - CONDUITS, BOXES OR OTHER INSERTS MAY NOT BE PLACED IN COLUMNS UNLESS APPROVED IN WRITING BY RJC.
 - UNLESS OTHERWISE NOTED ON COLUMN SCHEDULE, ALL COLUMN SPLICES SHALL BE AS PER TYPICAL DETAILS SHOWN ON THE STRUCTURAL DRAWINGS.
 - ALL EXPOSED CORNERS OF COLUMNS SHALL BE CHAMFERED 3/4" X 3/4" UNLESS NOTED OTHERWISE BY ARCHITECT.
 - UNLESS NOTED OTHERWISE, ALL COLUMN SPLICES SHALL BE COMPRESSION SPLICES.
 - UNLESS NOTED OTHERWISE, COLUMNS SHOULD BE CENTERED ON COLUMNS BELOW.
 - UNLESS NOTED OTHERWISE, COLUMNS SHALL BE CENTERED ON GRID LINES.
 - UNLESS NOTED OTHERWISE, PLACE TOP OF COLUMNS 0" TO 1/2" BELOW SOFFIT OF SUPPORTED CONCRETE STRUCTURE. IF TOP OF COLUMN PLACED ABOVE SOFFIT, CAREFULLY CHIP DOWN MINIMUM 3 DAYS AFTER ELEMENT POURED AND AS REQUIRED BY RJC.
 - WHERE COLUMN VERTICALS DO NOT EXTEND OVER, REFER TO "COLUMN SPLICE AND DOWEL DETAILS" NOTE.

COLUMN SPLICE AND DOWEL DETAILS

NOTE:

- ADD ADDITIONAL SETS OF TIES AT 1/2 THE SPACING MAXIMUM IF THIS DISTANCE IS MORE THAN 1/2 THE SPACE.
- WHERE COLUMN VERTICALS DO NOT EXTEND INTO A COLUMN ABOVE, EXTEND VERTICAL REINFORCING 24" MINIMUM INTO UNDERSIDE OF BEAMS OR TO WITHIN 1" OF TOP OF SLAB UNLESS CLEAR COVER REQUIREMENTS ARE GREATER.
- WHERE COLUMN VERTICALS WITH NO HOOK OR WITH STANDARD HOOK DO NOT HAVE FULL TENSION EMBEDMENT INTO MEMBER ABOVE, PROVIDE HOOKED DOWELS SAME SIZE AND NUMBER AS VERTICAL COLUMN REINFORCEMENT UNLESS NOTED OTHERWISE IN COLUMN SCHEDULE.

- WHERE BARS WITH NO HOOK PERMITTED, EXTEND BAR TO TOP OF SLAB LESS TOP COVER REQUIREMENT.
- ALL HOOKS AT EACH COLUMN FACE ORIENTED TO CROSS OVER FAR COLUMN FACE EXCEPT FOR HOOKS FROM INTERIOR FACE PARALLEL TO SLAB EDGE.
- HOOKS TO EXTEND TO TOP OF SLAB AND PLACED IN THE SAME LAYER AS AND PARALLEL TO SLAB REINFORCING IN TOP UPPER LAYER U.N.D.

SHEAR WALL SPLICE LENGTHS

SHEAR WALL HORIZONTAL SPLICE LENGTHS - ϕ_s

| CONCRETE STRENGTH | 10M | 15M | 20M | 25M | 30M | 35M |
|-------------------|-----|-----|-----|-----|-----|-----|
| 25 MPa | 20" | 29" | 39" | 60" | 72" | 84" |
| 30 MPa | 19" | 27" | 35" | 55" | 66" | 77" |
| 35 MPa | 17" | 25" | 33" | 51" | 61" | 71" |
| 40 MPa | 16" | 23" | 31" | 48" | 57" | 67" |
| 50 MPa | 16" | 21" | 28" | 43" | 51" | 60" |
| 60 MPa | 16" | 19" | 25" | 39" | 47" | 55" |

TYPICAL END OF WALL ZONE DETAILS

TYPICAL SHEAR WALL ZONE AT CORNER

SEISMIC TIES (HOOPS), SEISMIC CROSS TIES, AND BUCKLING PREVENTION TIES

- SEISMIC TIES (HOOPS) AND SEISMIC CROSS TIES ARE REQUIRED FOR THE FOLLOWING ELEMENTS:
 - COLUMN TIES WHERE NOTED ON DRAWINGS AND COLUMN TIES WHERE THE SPACING IS 4" OC OR LESS.
 - ZONE TIES FOR ALL SHEAR WALLS, U.N.D. PLUS WALL TIES WHERE NOTED ON DRAWINGS AND SCHEDULE.
 - OTHER TIES AND STRIPPUS WHERE NOTED ON DRAWINGS.
- BUCKLING PREVENTION TIES ARE REQUIRED FOR THE FOLLOWING ELEMENTS:
 - WALL ZONE TIES IN PLASTIC HINGE REGION.
 - TIES FOR DIAGONAL REINFORCEMENT IN COUPLING BEAM BETWEEN WALLS.
 - OTHER TIES AND STRIPPUS WHERE NOTED ON DRAWINGS.
- TYPICAL "HOOP" TIE DIMENSIONS AS FOLLOWS:

| SEISMIC TIE / HOOP BAR, db | 10M | 15M | 20M |
|----------------------------|-----|-----|-----|
| 'A' (MIN.) | 4" | 4" | 5" |
- SEISMIC CROSS-TIE / HOOP HOOK STRAIGHT EXTENSION LENGTH 'A' TABLE:

| SEISMIC TIE / HOOP BAR, db | 10M | 15M | 20M |
|----------------------------|-----|-----|-----|
| 'A' (MIN.) | 4" | 4" | 5" |

ZONE TIES

- ALL ZONE TIES 10M BARS UNLESS NOTED OTHERWISE.
- THE SPACINGS ARE ON CENTER UNLESS NOTED OTHERWISE.
- SEE "SEISMIC TIES (HOOPS) AND SEISMIC CROSS TIES" FOR ADDITIONAL REQUIREMENTS.
- FOR ZONE TIE SPACING SEE ZONE SCHEDULE AND "ZONE TIE SPACING" TABLES. FIRST TIE TO BE POSITIONED AT 1/2 TIE SPACING ABOVE FOUNDATION.
- ZONE TIES AT ZONE SPLICES TO BE AS FOLLOWS:

OPTION A:

OPTION B:

ZONE BARS MAY BE SPLICED WITH BENT BAR OFFSETS. IF THIS OPTION IS SELECTED SPLICE DETAILS ARE TO FOLLOW THOSE FOR "COLUMN SPLICE DETAILS" WITH CLASS 'B' TENSION LAP SPLICES THROUGHOUT, AND INCLUDING ADDITIONAL SETS OF TIES AT BAR CRANK LOCATION.
- AT WALL THICKNESS TRANSITIONS, ZONE BAR OFFSETS DETAILS ARE TO FOLLOW THOSE FOR "COLUMN SPLICE DETAILS", WITH CLASS 'B' TENSION LAP SPLICES THROUGHOUT, AND INCLUDING ADDITIONAL SETS OF TIES AT BAR CRANK LOCATION, IF APPLICABLE.
- TYPICAL ZONE TIE ARRANGEMENTS:

- ### CONCRETE SHEAR WALLS
- THESE NOTES APPLY TO WALLS SHOWN ON THE SHEAR WALL SCHEDULE OR OTHERWISE INDICATED AS SHEAR WALLS ON THE DRAWINGS. PROVIDE REINFORCING AS DEFINED ON WALL ELEVATIONS OR SHEAR WALL SCHEDULES, SHEAR WALL DETAILS, MINIMUM SHEAR WALL DISTRIBUTED REINFORCING TABLE AND "ZONE TIE SPACING" TABLES.
 - SHEAR WALL ELEVATIONS SERVE THE PURPOSE OF DEFINING THE ZONES, WALL DISTRIBUTED AND COUPLING BEAM REINFORCING, SIZE OF SHEAR WALLS, COUPLING BEAMS (THICKNESS, DEPTH, ETC.) AND CONCRETE STRENGTH. SHEAR WALL ELEVATIONS SHOULD BE READ IN CONJUNCTION WITH SCHEDULES AND TYPICAL SHEAR WALL DETAILS, THE GRAVITY ELEMENTS (SLAB, BEAMS, FOUNDATION SYSTEMS, ETC.) ARE SHOWN CONCEPTUALLY FOR CLARIFICATION ONLY. FOR SIZE, GEOMETRY, STEPS, ETC. OF THE GRAVITY ELEMENTS REFER TO PLANS, DETAILS AND SCHEDULES.
 - UNLESS OTHERWISE NOTED ON THESE DRAWINGS, ALL HORIZONTAL AND VERTICAL LAP SPLICE LENGTHS SHALL BE CLASS 'B' TENSION LAP SPLICES. SPLICE LENGTH AND DEVELOPMENT (EMBEDMENT) LENGTHS SHALL BE AS PER TABLE FOR "CASE 1 CONDITION".
 - UNLESS NOTED OTHERWISE, REFER TO ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR EXACT DIMENSIONS AND LOCATIONS OF WALL OPENINGS.
 - ANY OPENINGS NOT SHOWN ON THE STRUCTURAL SHEAR WALL ELEVATIONS CAN NOT BE ADDED WITHOUT WRITTEN APPROVAL BY RJC.
 - SEE ALSO WALL NOTES.

- ### CONCRETE SHEAR WALLS - DISTRIBUTED REINFORCEMENT
- WHERE NO DISTRIBUTED WALL REINFORCING IS INDICATED ON WALL ELEVATIONS OR SCHEDULE, PROVIDE MINIMUM WALL REINFORCING AS PER MINIMUM SHEAR WALL DISTRIBUTED REINFORCING TABLE.
 - PLACE HORIZONTAL REINFORCEMENT IN OUTER LAYERS OF THE CURTAINS AND VERTICAL REINFORCEMENT IN INNER LAYERS (BEHIND HORIZONTALS), UNLESS NOTED OTHERWISE.
 - VERTICAL SPLICES SHALL TYPICALLY OCCUR AT FLOOR LEVELS. OTHER SPLICES OF HORIZONTAL AND VERTICAL REINFORCEMENT ARE NOT ALLOWED EXCEPT WHERE NECESSARY. THESE CASES MUST BE REVIEWED AND APPROVED BY RJC BEFORE USE AND, IF APPROVED, THE SPLICES MUST BE STAGGERED WITHIN EACH CURTAIN. DO NOT CRANK WALL BARS ANYWHERE.
 - FOOTING DOWELS ARE TO MATCH VERTICAL WALL REINFORCEMENT EMBEDMENT SHALL BE AS PER TABLE "CASE 1 CONDITION". IF FOUNDATION THICKNESS IS LESS THAN EMBEDMENT LENGTH, EXTEND DOWELS TO BOTTOM OF FOOTING AND PROVIDE STANDARD 90° HOOK. SEE ALSO OTHER NOTES AND DETAILS ON THESE DRAWINGS.
 - WHERE VERTICAL REINFORCEMENT IS INTERRUPTED BY AN OPENING, PROVIDE U-BARS TO MATCH SPACING OF THE VERTICAL REINFORCEMENT. LAP U-BARS WITH VERTICAL REINFORCEMENT WITH TENSION SPLICE PER TABLE "CASE 1 CONDITION".

- ### CONCRETE SHEAR WALLS - ZONE REINFORCEMENT
- ZONE REINFORCING IS CALLED UP IN ZONE REINFORCING SCHEDULE OR ON SHEAR WALL ELEVATIONS.
 - ZONE DOWELS TO MATCH SIZE AND NUMBER OF VERTICAL BARS IN ZONE. UNLESS NOTED OTHERWISE, EXTEND DOWELS TO BOTTOM OF FOUNDATION AND PROVIDE STANDARD 90° HOOK.
- ### TIES FOR ZONE REINFORCEMENT
- PROVIDE TIES FOR WALL ZONE REINFORCING AS PER "ZONE TIE SPACING" TABLES UNLESS NOTED OTHERWISE ON WALL ELEVATIONS OR SHEAR WALL SCHEDULE.

WALL CONSTRUCTION JOINT

(CONSTRUCTION JOINT CAN REPLACE CONTROL JOINT) IF ARCHITECTURAL DRAWINGS AND SPECIFICATIONS DO NOT REQUIRE A WATERSTOP. FOR WALLS BELOW GRADE, PROVIDE A 3/4" WIDE X 1" DEEP NOTCH AND FILL NOTCH WITH CAULKING OR DAMP PROOFING TO ARCHITECT'S REQUIREMENTS.

WATERSTOP IF REQUIRED - SEE ARCHITECTURAL SPECIFICATIONS

ALL HORIZONTAL BARS TO BE CONTINUOUS THROUGH JOINT OR TENSION SPLICED.

- ### CONCRETE SHEAR WALLS - CONSTRUCTION JOINTS
- #### HORIZONTAL CONSTRUCTION JOINTS
- THE TOP OF THE WALL SHALL BE LEFT ROUGH (OR SHALL BE ROUGHENED) AND SHALL BE CLEANED OF LATANCE AND LOOSE MATERIAL BY SUITABLE METHODS BEFORE THE SLAB OR WALL OVER IS PLACED.
 - SLABS WHERE WALLS ARE TO BE PLACED SHALL BE LEFT ROUGH AND CLEAN AND FREE OF LATANCE. WHERE THIS IS NOT THE CASE, THE SLAB SURFACE SHALL BE CLEANED TO SOUND, ROUGH CONCRETE BY SUITABLE METHODS.
- #### VERTICAL CONSTRUCTION JOINTS
- LOCATION OF VERTICAL CONSTRUCTION JOINTS MUST BE APPROVED BY THE STRUCTURAL ENGINEER. USE THE FOLLOWING DETAIL UNLESS NOTED OTHERWISE.

| No. | Revision | Date | By |
|-----|-----------------------|------------|-----|
| 1 | ISSUED FOR 50% REVIEW | 2024.12.20 | KML |

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Project Name
PROPOSED COLLEGE DRIVE APARTMENTS

1202 COLLEGE DRIVE
SASKATOON, SK

Sheet Title
GENERAL NOTES

| Drawn By | KML | Scale | As Indicated |
|--------------------|------------------------|-------|--------------|
| Designed By | PWM | Date | 2024.12.20 |
| RJC Project Number | SAS.138936.0001 | | |
| Sheet Number | Revision | | |
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HEADED STUD ASSEMBLY CONFIGURATIONS

ALSO SEE "HEADED STUD ASSEMBLIES" NOTES.

TYPE 2A - ROUND COLUMN
SLAB EDGE
EQUAL NUMBER OF RAILS PER SIDE

TYPE 2B
SLAB EDGE
2 RAILS ON SHORT SIDE, REMAINDER OF RAILS ON LONG SIDE

TYPE 2C
SLAB EDGE
2 RAILS ON SHORT SIDE, REMAINDER OF RAILS ON LONG SIDE

TYPE 2E
SLAB EDGE
2 RAILS ON SHORT SIDE, REMAINDER OF RAILS ON LONG SIDE
4 X OVERALL SLAB THICKNESS

TYPE 3A - ROUND COLUMN
SLAB EDGE
EQUAL NUMBER OF RAILS PER SIDE

TYPE 3B
SLAB EDGE
2 RAILS PER SHORT SIDE, REMAINDER OF RAILS ON LONG SIDES

TYPE 3C
SLAB EDGE
EQUAL NUMBER OF RAILS PER SIDE

TYPE 3E
SLAB EDGE
4 X OVERALL SLAB THICKNESS
2 RAILS ON SHORT SIDE, REMAINDER OF RAILS ON LONG SIDES

TYPE 4A - ROUND COLUMN
SLAB EDGE
EQUAL NUMBER OF RAILS PER SIDE

TYPE 4B
SLAB EDGE
2 RAILS PER SHORT SIDE, REMAINDER OF RAILS ON LONG SIDES

TYPE 4C
SLAB EDGE
3 RAILS PER SHORT SIDE, REMAINDER OF RAILS ON LONG SIDES

TYPICAL CORNER MAT LAYOUT FLAT SLAB

NOTES:

- MAX ONE CARRY BAR AND ONE CONCENTRATED BAR IN T.U.L. DIRECTION MAY BE DROPPED TO T.L.L.

TYPICAL SLAB EDGE HOOK BARS

CASE 1
AT SUPPORTS (WALL, COLUMN, ETC)

CASE 2
AT FREE EDGE INCLUDING OPENINGS GREATER THAN 24"

HEADED STUD ASSEMBLIES

1. TYPICAL HEADED STUD ASSEMBLY DETAIL

S = STUD SPACING, SEE HEADED STUD ASSEMBLY SCHEDULE
END STUD SPACING, TYPICALLY HALF OF STUD SPACING UNLESS NOTED OTHERWISE IN HEADED STUD ASSEMBLY SCHEDULE
OAH = OVERALL HEIGHT OF HEADED STUD ASSEMBLY, SEE HEADED STUD ASSEMBLY SCHEDULE.

| D | CROSS-SECTION AREA OF STUD | Dh | th | br | tr |
|------|----------------------------|-------|-------|--------|-------|
| 3/8" | 0.110 SQ. INCHES | 1.19" | 0.21" | 1" | 3/16" |
| 1/2" | 0.196 SQ. INCHES | 1.58" | 0.28" | 1 1/4" | 1/4" |
| 5/8" | 0.307 SQ. INCHES | 1.98" | 0.35" | 1 3/4" | 5/16" |
| 3/4" | 0.442 SQ. INCHES | 2.37" | 0.42" | 2" | 3/8" |

- MATERIALS AND MANUFACTURING SHALL BE IN ACCORDANCE WITH THE LATEST UPDATE OF ASTM A1044.
- HEADED STUDS SHALL CONFORM TO ASTM A29 GRADES 1010 THROUGH 1020 AND THE FOLLOWING TENSILE PROPERTIES:
TENSILE STRENGTH = 450 MPa (65000 PSI) MINIMUM
YIELD STRENGTH = 345 MPa (50000 PSI) MINIMUM
ELONGATION IN 2" = 20% MINIMUM
REDUCTION OF AREA = 50% MINIMUM
- BASE RAILS SHALL CONFORM TO ASTM A36 AND THE FOLLOWING TENSILE PROPERTIES:
TENSILE STRENGTH = 450 MPa (65000 PSI) MINIMUM
YIELD STRENGTH = 300 MPa (44000 PSI) MINIMUM
ELONGATION IN 2" = 20% MINIMUM
- STUD WELDING SHALL CONFORM TO CSA W59, INCLUDING THE PROVISIONS FOR PRODUCTION CONTROL, FABRICATION, AND VERIFICATION REQUIREMENTS.
- TESTING AND INSPECTION OF HEADED STUD ASSEMBLIES SHALL BE IN ACCORDANCE WITH THE STRUCTURAL SPECIFICATIONS.
- COVER OF THE HEADED STUD ASSEMBLY TO THE TOP AND BOTTOM SLAB SURFACES ARE AS PER THE CONCRETE REINFORCEMENT NOTES.
- ALL HEADED STUD ASSEMBLIES TO BE INSTALLED WITH THE RAIL LOCATED BELOW THE LOWEST LAYER OF REINFORCEMENT UNLESS NOTED OTHERWISE ON DRAWINGS OR APPROVED IN WRITING BY RJC.
- ALLOW MINIMUM 2" CLEAR COVER FROM THE HEADED STUD ASSEMBLY TO SLAB EDGES UNLESS NOTED OTHERWISE ON DRAWINGS.
- THE ALL HEADED STUD ASSEMBLIES TO REINFORCING BARS AND USE ADEQUATE CHAIRS TO PREVENT MOVEMENT OF THE HEADED STUD ASSEMBLIES DURING CASTING.
- NO IN-SLAB DUCTS PERMITTED IN THE REGION CONTAINING HEADED STUD ASSEMBLIES UNLESS APPROVED IN WRITING BY RJC.
- NO SLEEVES OR CONDUIT PERMITTED WITHIN THE REGION CONTAINING HEADED STUD ASSEMBLIES UNLESS APPROVED IN WRITING BY RJC.

SLAB TEMPERATURE REINFORCING

1. MINIMUM BOTTOM (UNLESS NOTED OTHERWISE):

| SLAB THICKNESS | TEMPERATURE REINFORCING | SLAB THICKNESS | TEMPERATURE REINFORCING |
|----------------|-------------------------|----------------|-------------------------|
| 5" | 10M @ 16" | 8" | 15M @ 16" |
| 5 1/2" | 10M @ 14" | 8 1/2" | 15M @ 16" |
| 6" | 10M @ 13" | 9" | 15M @ 17" |
| 6 1/2" | 10M @ 12" | 10" | 15M @ 16" |
| 7" | 10M @ 11" | 11" | 15M @ 14" |
| 7 1/2" | 10M @ 20" | 12" | 15M @ 13" |

2. FOR OTHER THICKNESSES REINFORCEMENT TO BE PROPORTIONAL TO ABOVE.

3. BASED ON CAN/CSA-A23.3: 0.002 X AREA.

4. 15M BOTTOM BARS MUST BE REPLACED WITH 10M BARS AT CLOSER SPACING SATISFYING 0.002 X AREA. (EG. REPLACE 15M @ 20" WITH 10M @ 10"). DO NOT INCREASE BAR SPACING UNLESS APPROVED BY RJC.

INTEGRITY REINFORCEMENT

- PROVIDE INTEGRITY REINFORCEMENT IN ALL FLAT PLATES, FLAT SLABS WITH DROPS, AND SLABS WITH SLAB BANDS AS PER THE (NOTE) SCHEDULE SHOWN ON THE PLAN SHEETS UNLESS NOTED OTHERWISE ON PLAN.
- SEE S 3.1 FOR TYPICAL DETAILS OF INTEGRITY REINFORCEMENT PLACEMENT.
- ALL INTEGRITY REINFORCEMENT TO BE CONTINUOUS BARS WITHOUT SPLICES AND ALL BARS MUST PASS THROUGH THE COLUMN CORE. ADJUST SLEEVE LOCATIONS TO SUIT INTEGRITY REINFORCEMENT LAYOUT.
- CENTER ALL INTEGRITY BARS ABOUT COLUMN CENTERLINE, WHERE SLAB EDGE OR EDGE OF OPENING IS LOCATED LESS THAN ONE-HALF OF THE INTEGRITY BAR LENGTH FROM COLUMN CENTERLINE OR LESS THAN 1" WHERE APPLICABLE, EXTEND THE INTEGRITY REINFORCEMENT TO SLAB EDGE LESS COVER AND PROVIDE STANDARD HOOK OR BAR TERMINATOR (5 x 4 HEAD).

TYPICAL MAT LAYOUT WITHOUT DROP PANEL

NOTES:

- CONCENTRATE EXTRA TOP BARS IN MIDDLE 1/3 OF MAT
- MAX TWO CARRY BARS + ONE CONCENTRATED BAR IN T.U.L. DIRECTION MAY BE DROPPED TO T.L.L.

TYPICAL EDGE MAT LAYOUT FLAT SLAB

NOTES:

- WHERE T.U.L. PARALLEL TO SLAB EDGE, MAX ONE CARRY BAR AND ONE CONCENTRATED BAR IN T.U.L. DIRECTION MAY BE DROPPED TO T.L.L.
- WHERE T.U.L. PERPENDICULAR TO SLAB EDGE, MAX ONE T.U.L. BAR EACH SIDE OF COLUMN MAY BE DROPPED TO T.L.L. DO NOT DROP BASIC BARS PERPENDICULAR TO SLAB EDGE U.O.

COLUMN TIE ARRANGEMENTS

| TYPE | 4 BAR COL. | 6 BAR COL. | 8 BAR COL. | 10 BAR COL. | 12 BAR COL. |
|--------|------------|------------|------------|-------------|-------------|
| TYPE 1 | | | | | |
| TYPE 2 | | | | | |
| TYPE 3 | | | | | |
| TYPE 4 | | | | | |

TYPICAL ROUND OR OCTAGONAL COLUMN TIES

6" MINIMUM BETWEEN HOOPS

NOTES:

- MAXIMUM CLEAR DISTANCE BETWEEN VERTICAL BARS ENCLOSED BY THE CORNER OF A TIE, AND WITHOUT AN INTERMEDIATE BAR, IS 20".
- MAXIMUM ONE BAR MAY BE PLACED BETWEEN TIED BARS. MAXIMUM CLEAR DISTANCE BETWEEN TIED VERTICAL BARS FOR THIS CASE IS 12".
- ALL TIES TO HAVE 135° HOOKS AND BE BUCKLING PREVENTION TIES DETAILED AS HOOPS WITH SEISMIC HOOPS UNLESS NOTED OTHERWISE.
- CLOSED TIES MAY ALWAYS BE SUBSTITUTED FOR CROSS-TIES.
- ROUND OR OCTAGONAL COLUMNS TO HAVE 6 VERTICAL BARS MINIMUM OFFSET LOCATION OF THE HOOKS OVER HEIGHT OF COLUMN.

SLABS

- UNLESS NOTED OTHERWISE, THE MINIMUM BOTTOM REINFORCING IN BOTH DIRECTIONS IN SLABS SHALL BE AS SHOWN ON SLAB TEMPERATURE REINFORCING NOTES.
- UNLESS NOTED OTHERWISE, EDGES OF ALL SLABS SHALL HAVE 1-15M TOP + 1-15M BOTTOM CONTINUOUS LAPPED 25". AT RE-ENTRANT CORNER EXTEND 2'-1" BEYOND THE CORNER, STAGGER TOP AND BOTTOM BAR LAPS MINIMUM 4'-0".
- CAMBERS: FOR SLABS, BEAMS, GIRDERS
A. CIRCLED NUMBERS, E.G. (6) INDICATES POSITION AND MAGNITUDE OF POINTS WHERE SLABS SHALL BE CAMBERED 5/8".
B. FOR SPANS OVER 23'-0" WHEN CAMBERS ARE NOT INDICATED ON DRAWINGS, SPANS SHALL BE CAMBERED 0.02 OF SPAN.
C. UNLESS NOTED OTHERWISE, POST-TENSIONED SLABS AND BEAMS NEED NOT BE CAMBERED.
- LOCATIONS AND DETAILS OF CONSTRUCTION JOINTS TO BE SUBMITTED TO RJC FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
- UNLESS NOTED OTHERWISE, SLAB TEMPERATURE REINFORCING SHALL BE TENSION SPLICED, SEE "EMBEDMENT / DEVELOPMENT LENGTHS AND SPLICE LENGTHS" NOTE.
- WHERE NOTED ON PLAN SLAB RECESSES TO HAVE SLAB THICKNESS LOCALLY REDUCED.
- OPENINGS IN SLABS:
A. UNLESS NOTED OTHERWISE, SLAB REINFORCING SHALL NOT BE CUT AT OPENINGS INCLUDING SLEEVES, PLUMBING BLOCK OUTS AND EMBEDDED ELECTRICAL BOXES.
B. AT OPENINGS UP TO 12' X 12', SPREAD REINFORCING AROUND THE OPENING.
C. AT OPENINGS UP TO 2'-6" X 2'-6", DISPLACE SLAB REINFORCEMENT AROUND OPENING AND PROVIDE EXTRA REINFORCEMENT AS SHOWN UNLESS NOTED OTHERWISE ON PLANS AND DETAILS.

NOT FOR CONSTRUCTION

NOTES:

- ALL DRAWINGS, PLANS, MODELS, DESIGNS, SPECIFICATIONS AND OTHER DOCUMENTS prepared by Read Jones Christoffersen Ltd. (RJC) and used in connection with this project are instruments of service for the client named in them (the "Work") and as such are and remain the property of RJC whether the Work is executed or not, and RJC reserves the right to use them and in the Work executed from them, and they shall not be used for any other work or project.
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Project Name
PROPOSED COLLEGE DRIVE APARTMENTS

1202 COLLEGE DRIVE
SASKATOON, SK

Sheet Title
GENERAL NOTES

Drawn By **PWL** Scale **As Indicated**
Designed By **KML** Date **2024.12.20**
RJC Project Number **SAS.138936.0001**
Sheet Number
Revision



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MASONRY NOTES

READ IN CONJUNCTION WITH THE MASONRY SPECIFICATIONS AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

- ALL MASONRY WORK SHALL CONFORM TO CANCSA 3304.1 AND ITS REFERENCED DOCUMENTS, INCLUDING BUT NOT LIMITED TO:
 - CONCRETE BLOCK TO CANCSA-A165.1 TYPE H15M UNLESS NOTED OTHERWISE (BASED ON NET AREA).
 - MASONRY WIRE REINFORCING TO CSA-A371 AND ASTM 1064-GRADE 405.
 - REINFORCING BARS TO CSA-A371 AND CSA G30.18 - GRADE 400W.
 - GROUT PREPARED ON OR OFF SITE SHALL BE IN ACCORDANCE WITH CANCSA-A179 AND SUPPLIER RECOMMENDATIONS.
 - MINIMUM 28 DAY COMPRESSIVE STRENGTH = 12.5 MPa
 - SUMP #1 (MIN) TO 10' (MAX)
 - FINE AGGREGATE SHALL BE USED WHERE SPACES TO BE GROUTED HAVE DIMENSIONS LESS THAN 2"
- CONNECTORS FOR MASONRY TO CANCSA-A370
- MORTAR SHALL BE TYPE S PREPARED IN ACCORDANCE WITH CANCSA-A371
- CONNECTIONS TO CANCSA-A370
- PRACTICE TO CANCSA-A371.

2. THE MASONRY CONTRACTOR SHALL BE A MEMBER OF THE CANADIAN MASONRY CONTRACTORS ASSOCIATION

3. NO MASONRY CONSTRUCTION SHALL BE PERMITTED WITHOUT THE CONTRACTOR ENSURING ALL NECESSARY PROTECTION AND CONSTRUCTION METHODS CAN BE READILY IMPLEMENTED IN ACCORDANCE WITH CANCSA-A371 PRIOR TO TEMPERATURES AND WEATHER CONDITIONS REACHING THE FOLLOWING:

- HOT WEATHER - TEMPERATURE ABOVE +30°C
- COLD WEATHER - TEMPERATURE BELOW +10°C
- WET WEATHER OR SNOW PROTECTION (STORAGE AND CONSTRUCTION)
- HIGH WIND CONSTRUCTION

4. ALL WALLS SHALL BE BUILT USING RUNNING BOND. STACK BOND SHALL NOT BE USED WITHOUT THE PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.

5. MORTAR MAY NOT BE SUBSTITUTED FOR GROUT.

6. ALL MORTAR JOINTS IN CONCRETE BLOCK WORK SHALL BE TOOLED CONCAVE UNLESS NOTED OTHERWISE IN THE ARCHITECTURAL DRAWINGS.

7. FILL BOND BEAMS AND CELLS CONTAINING VERTICAL REINFORCEMENT OR BOLTS WITH GROUT, VIBRATE OR Puddle TO COMPLETELY FILL CELLS.

8. UNLESS MASONRY WALLS ARE NOTED AS 'FULLY GROUTED' OR 'GROUT SOLID' GROUT ONLY CELLS CONTAINING VERTICAL OR HORIZONTAL REINFORCEMENT, ANCHOR RODS, BOLTS OR OTHER SPECIFICALLY NOTED AREAS. VIBRATE OR Puddle TO ENSURE CELLS ARE FILLED COMPLETELY AND PROPERLY CONSOLIDATED.

9. GROUTING OF WALLS SHALL BE CARRIED OUT FOLLOWING ONE OF THE TWO METHODS BELOW. THE METHOD OF GROUTING SHALL BE INDICATED IN THE SHOP DRAWINGS.

- LOW LIFT GROUTING
 - LIFTS SHALL NOT EXCEED 4'-0" IN HEIGHT
 - TERMINATE EACH LIFT 1/2" BELOW THE TOP OF EACH MASONRY UNIT.
- HIGH LIFT GROUTING
 - LIFTS SHALL NOT EXCEED 8'-0" IN HEIGHT.
 - THE MASONRY MUST BE ALLOWED TO CURE FOR AT LEAST 4 HOURS PRIOR TO PLACING GROUT.
 - GROUT SLUMS MUST BE MAINTAINED AT 10'.
 - THE WALL SHALL NOT INCLUDE ANY INTERMEDIATE BOND BEAMS BETWEEN THE TOP AND BOTTOM OF THE LIFT.
 - CLEANOUTS SHALL BE PROVIDED FOR ALL CELLS TO BE REINFORCED AND FILLED WITH GROUT. REPEAT CLEANOUTS ABOVE BOND BEAMS. THESE CELLS ARE TO BE KEPT CLEAR AND CLEAN OF MORTAR.

10. GROUT NOT PLACED WITHIN 1.5 HOURS AFTER WATER IS FIRST ADDED TO THE BATCH SHALL BE DISCARDED.

11. REINFORCEMENT SHALL HAVE SPICES IN ACCORDANCE WITH THE EMBEDMENT / DEVELOPMENT LENGTHS AND SPICE LENGTHS NOTE.

12. COVER FOR VERTICAL REINFORCEMENT EXPOSED TO WEATHER OR EARTH SHALL BE INCREASED TO 2".

13. REINFORCING BAR POSITIONERS SHALL BE PROVIDED AS PER THE TYPICAL DETAIL MW10 TO ENSURE BARS REMAIN WITH TOLERANCE DURING PLACEMENT OF GROUT OR MORTAR.

14. HORIZONTAL JOINT REINFORCEMENT AND CONNECTIONS TO BASE BUILDING STRUCTURE SHALL HAVE THE FOLLOWING FINISH BASED ON LOCATION:

- EXTERIOR WALLS EXPOSED TO EARTH OR WEATHER OR INTERIOR WALLS EXPOSED TO HUMIDITY > 75% MUST BE HOT-DIP GALVANIZED, EPOXY COATED (REQUIRING INCREASED EMBED & SPICE LENGTHS), OR STAINLESS STEEL.
- INTERIOR WALLS IN DRY CONDITIONS SHALL BE MILL OR HOT-DIP GALVANIZED.

15. PROVIDE LADDER STYLE HORIZONTAL REINFORCEMENT FOR ALL REINFORCED WALLS AND TRUSS STYLE REINFORCEMENT FOR UNREINFORCED WALLS UNLESS NOTED OTHERWISE.

16. PROVIDE PRE-FABRICATED CORNER AND TEE SECTIONS FOR JOINT REINFORCEMENT.

17. PROVIDE DOWELS INTO FOUNDATION WALLS, CONCRETE FOOTINGS SUSPENDED SLABS, OR SLAB-ON-GRADE.

- TO MATCH VERTICAL REINFORCEMENT DETAILED FOR WALLS.
- AT MINIMUM PROVIDE 15M8@4" STARTER DOWELS WITH STANDARD HOOK DEVELOPMENT AND 4'-0" PROJECTION INTO MASONRY ABOVE.

18. FOR DOWELS IN CONCRETE ON DECK PROVIDE DROP IN ANCHORS.

19. PROVIDE LINTELS OVER ALL OPENINGS IN WALLS. SEE LINTEL SCHEDULE, UNLESS NOTED OTHERWISE ON PLAN.

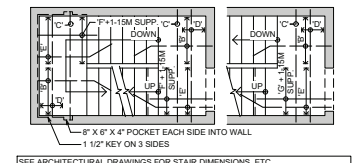
20. CONTROL JOINTS SHALL BE PROVIDED IN ACCORDANCE WITH TYPICAL DETAIL MW102 UNLESS NOTED OTHERWISE.

- REFER TO CONTROL JOINT DETAIL FOR REINFORCEMENT THAT SHALL BE CARRIED THROUGH AT BOND BEAMS UNLESS NOTED OTHERWISE.
- LOCATIONS OF CONTROL JOINTS SHALL BE LAID OUT TO ENSURE NO FREE STANDING WIDTHS OF WALL LESS THAN 12" ARE CREATED.
- CONTRACTOR TO SUBMIT A SHOP DRAWING SHOWING COORDINATED CONTROL JOINTS WITH STRUCTURAL NOTES, OPENINGS AND ARCHITECTURAL DRAWINGS.

21. PROVIDE CONTROL JOINTS (WITH VERTICAL MOVEMENT ALLOWANCE) BETWEEN ALL LOAD BEARING AND NON-LOAD-BEARING WALLS.

22. OUTSIDE FACES OF EXTERIOR WALLS SHALL BE WATERPROOFED AS PER ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.

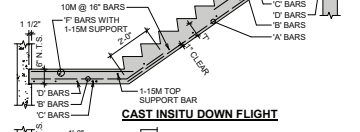
TYPICAL CAST INSITU STAIRS HALF FLIGHT AND LANDING



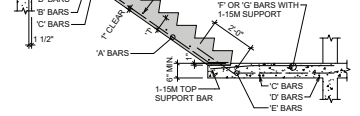
SEE ARCHITECTURAL DRAWINGS FOR STAIR DIMENSIONS, ETC. FOR PRECAST STAIRS MODIFY 'B' AND 'E' BARS AS SHOWN ON PRECAST DETAILS.

| TYPICAL PLAN (EVEN RISERS) | | PART PLAN (STAGGERED RISERS) | |
|----------------------------|--------------------------------------------------|------------------------------|--------------------------------------------------|
| RISERS | 'T' 'A' 'B' 'C' 'D' 'E' 'F' 'G' | RISERS | 'T' 'A' 'B' 'C' 'D' 'E' 'F' 'G' |
| 7 TO 8 | 5' 4-15M 5-10M 2-20M 10M @ 12" 5-10M 3-15M 4-15M | 7 TO 8 | 5' 4-15M 5-10M 2-20M 10M @ 12" 5-10M 3-15M 4-15M |
| 9 TO 11 | 6' 5-15M 5-10M 3-20M 10M @ 12" 5-10M 4-15M 5-15M | 9 TO 11 | 6' 5-15M 5-10M 3-20M 10M @ 12" 5-10M 4-15M 5-15M |
| 12 TO 13 | 6' 6-15M 5-10M 3-20M 10M @ 12" 5-10M 4-15M 5-15M | 12 TO 13 | 6' 6-15M 5-10M 3-20M 10M @ 12" 5-10M 4-15M 5-15M |

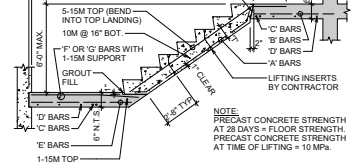
NOTES:
ASSUMED FLIGHT WIDTH TO BE 3'-6"
DESIGN LIVE LOAD TO BE 100 PSF
SEE ARCH. DRAWINGS FOR LAYOUT AND EXACT NUMBER OF RISERS.



CAST INSITU DOWN FLIGHT



CAST INSITU UP FLIGHT

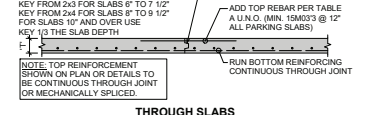


TYPICAL PRECAST STAIR

NOTE: PRECAST CONCRETE STRENGTH AT 28 DAYS = FLOOR STRENGTH. PRECAST CONCRETE STRENGTH AT TIME OF LIFTING = 10 MPa.

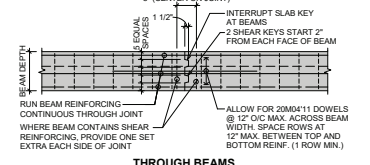
CONSTRUCTION JOINTS THROUGH SLABS, SLAB BANDS, AND BEAMS

LOCATIONS TO BE APPROVED BY RJC



THROUGH SLABS

| SLAB / SLAB BAND THICKNESS | CONCRETE DESIGN STRENGTH, F _c | |
|----------------------------|------------------------------------------|---------------------|
| | 38 MPa OR LESS | GREATER THAN 38 MPa |
| T' ≤ 12" | 15M03 @ 12" | 20M03 @ 12" |
| 12" < T' ≤ 24" | 20M03 @ 12" | 25M04 @ 12" |
| SLAB BAND | 20M03 @ 12" | 25M04 @ 12" |

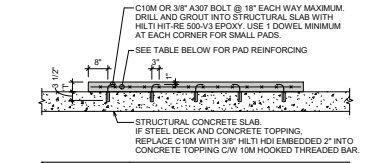


THROUGH BEAMS

- NOTES:
- THESE DETAILS ARE TO ASSIST THE CONTRACTOR IN LOCATING POTENTIAL CONSTRUCTION JOINTS. FINAL CONSTRUCTION JOINT LOCATIONS ARE TO BE APPROVED BY RJC.
 - CONTRACTOR TO SUBMIT ALL PROPOSED CONSTRUCTION JOINT LOCATIONS TO RJC FOR REVIEW MINIMUM 14 DAYS BEFORE START OF FORMWORK AND REINFORCEMENT FOR LEVEL CONTAINING PROPOSED JOINT.
 - REQUIREMENTS FOR KEYS, ROUGHENED SURFACES AND DOWELS AT CONSTRUCTION JOINTS PROVIDED IN THESE DETAILS ARE FOR TYPICAL CONDITIONS AND ARE FOR PRICING AND PLANNING PURPOSES ONLY. A FINAL DESIGN OF THE CONSTRUCTION JOINT DETAILS IS TO BE COMPLETED BY RJC AT CONTRACTOR'S COST AFTER THE CONSTRUCTION JOINT LOCATIONS ARE APPROVED.
 - NO STAYDOWN PERMITTED IN CONSTRUCTION JOINTS IN PARKING AREAS UNLESS APPROVED IN WRITING BY RJC.

TYPICAL MECHANICAL / ELECTRICAL HOUSEKEEPING PAD DETAIL

- SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATION, EXTENT, AND THICKNESS OF HOUSEKEEPING PADS.
- THIS DETAIL PROVIDES RESISTANCE TO HORIZONTAL (SLIDING) FORCES ONLY FROM EARTHQUAKE LOADING ON PAD AND EQUIPMENT. ADDITIONAL CONNECTIONS FOR UPLIFT FORCES FROM EQUIPMENT TO BE DESIGNED AND DETAILED BY SPECIALTY ENGINEER AND WILL REQUIRE ANCHORING THROUGH THE PAD AND INTO OR THROUGH THE STRUCTURAL SLAB. POST-TENSIONED FLOORS, LOCATE TENDONS BEFORE DRILLING HOLES.



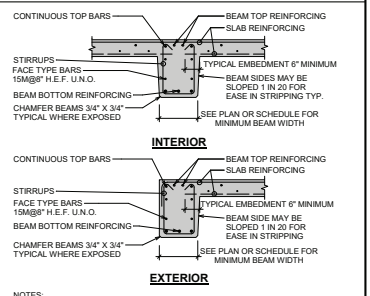
| T' (PAD THICKNESS) | REINFORCING |
|--------------------|---------------------------------------------------------|
| UP TO 4" | 1 SHEET OF WWR 6 X 6 - W2.9 X W2.9 LAP 12" AT MID-DEPTH |
| 4 1/2" TO 6" | 10M @ 18" EACH WAY AT MID-DEPTH |
| 6 1/2" TO 8" | 10M @ 12" EACH WAY AT MID-DEPTH |

SLAB ON GRADE REINFORCING AND CONTROL JOINTS

- SLAB ON GRADE SHALL BE PLACED ON SOIL CAPABLE OF SUSTAINING 500 PSF MINIMUM WITHOUT SETTLEMENT RELATIVE TO THE BUILDING FOUNDATIONS. IN AREAS WHERE S.O.G. IS USED TO SUPPORT TEMPORARY SHORING LOADS, LARGER SUBGRADE CAPACITIES MAY BE REQUIRED PER LOADS SUPPLIED BY TEMPORARY WORKS ENGINEERS.
- REFER TO THE SUB-BASE NOTE AND GEOTECHNICAL REPORT FOR ALL SUB-BASE DESIGN AND COMPACTATION REQUIREMENTS.
- THE CONTRACTOR IS RESPONSIBLE FOR DESIGNING THE SLAB ON GRADE AND ANY SPECIAL SUBBASE PREPARATIONS REQUIRED TO SUPPORT TEMPORARY SHORING OR ANY OTHER TEMPORARY CONTINUOUS LOADS.
- FOR UNREINFORCED SLABS PROVIDE A 1/2" DEEP CONTINUOUS SHEAR KEY IN THE SLAB ON GRADE FACE.
- UNLESS NOTED OTHERWISE ON PLAN PROVIDE SLAB ON GRADE REINFORCEMENT AS SHOWN IN THE TABLE BELOW. MID-DEPTH IN THE SLAB WITH PROPER CHAIRS.

| SLAB ON GRADE THICKNESS | MINIMUM REINFORCING UNLESS NOTED OTHERWISE ON PLAN |
|-------------------------|----------------------------------------------------|
| LESS THAN 4 1/2" | WWR 6 X 6 - W2.9 X W2.9 (LAP 12") |
| 4 1/2" TO 7" | 10M @ 18" EACH WAY |
| GREATER THAN 7" | 15M @ 18" EACH WAY |
- COORDINATE REBAR PLACEMENT TO AVOID DAMAGING OR SHIFTING BARS DURING SAWCUTTING AND TO ACCOUNT FOR CONCRETE EXPOSURE CLASS.
- CONSTRUCTION JOINTS SHOULD BE LOCATED TO PROVIDE SQUARE POURS AND MEET THE POUR SIZE LIMITATIONS PER THE SPECIFICATIONS.
- CONTROL JOINTS / SAWCUTS SHALL BE LOCATED AT A MAXIMUM SPACING OF 18' SHALL NOT EXCEED 14'-0" OR AS NOTED IN THE SLAB THICKNESS AND SAWCUT DETAIL. PROVIDE ONE SET OF 2" SHEAR KEYS START 2" FROM EACH FACE OF BEAM.
- SAWCUT JOINTS SHALL BE 6"± WIDE WITH A DEPTH OF 1/3 THE SLAB DEPTH BUT NOT LESS THAN 1 1/2".
- COORDINATE THE SAWCUT PATTERN TO SUIT ARCHITECTURAL FLOOR FINISHES. CHANGES IN SLAB THICKNESS AND POINTS OF SUPPORT. THE CONSULTANT MAY REQUEST A COORDINATION MEETING TO REVIEW THE SLAB LAYOUT AND METHODOLOGY PRIOR TO COMMENCING CONSTRUCTION.
- REFER TO THE SPECIFICATIONS FOR ADDITIONAL SLAB ON GRADE CONSTRUCTION, FINISHING, AND TOLERANCE REQUIREMENTS.
- UNLESS NOTED OTHERWISE, PROVIDE CONTROL JOINTS AROUND ALL COLUMNS PER THE TYPICAL DETAILS.
- PROVIDE ADDITIONAL REINFORCEMENT AT ALL DISCONTINUOUS SAW CUTS, RE-ENTRANT CORNERS AND STEPS IN SLAB PER TYPICAL DETAILS.
- APPROVAL OF ARCHITECT IS REQUIRED TO SUBSTITUTE "2B-STRIPS" FOR SAWCUTS.

CONCRETE BEAMS



- NOTES:
- CAMBERS AS PER SLAB NOTES.
 - ADDITIONAL STRIPPUS MAY BE REQUIRED SHOULD HORIZONTAL POUR BREAK BE INTRODUCED. ALL POUR BREAKS PROPOSED BY CONTRACTOR TO BE REVIEWED BY RJC PRIOR TO CONSTRUCTION.

MASONRY - INSPECTION & TESTING

- AN INDEPENDENT TESTING AGENCY SHALL BE RETAINED TO PROVIDE AN ON-SITE QUALITY CONTROL REVIEWS FOR THE MASONRY WORKS.
- A TESTING AND INSPECTION PROGRAM SHALL BE DEVELOPED IN ACCORDANCE WITH THE STANDARDS IN THE MASONRY NOTES. THE DRAWINGS, SPECIFICATIONS AND THIS 40286-18 BUILDING CODE REQUIREMENTS AND SPECIFICATIONS FOR MASONRY STRUCTURES LEVEL A QUALITY ASSURANCE.
- THE CONTRACTOR SHALL CONTACT THE STRUCTURAL CONSULTANT FOR SITE VISITS 24 HOURS PRIOR TO POURING GROUT.

| No. | Revision | Date | By |
|-----|-----------------------|------------|-----|
| 1 | ISSUED FOR 50% REVIEW | 2024.12.20 | KML |

Drawings Notes

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NOT FOR CONSTRUCTION

Project Name
PROPOSED COLLEGE DROVE APARTMENTS

1202 COLLEGE DRIVE
SASKATOON, SK

Sheet Title
GENERAL NOTES

Drawn By **KML** Scale **As Indicated**

Designed By **PWM** Date **2024.12.20**

RJC Project Number **SAS.138936.0001**

Sheet Number
S 1.7

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WOOD FRAMING - WALL ANCHORAGE

9. FASTEN LOAD BEARING WALLS AT BASE BY BOLTING THE BOTTOM PLATE (SILL PLATE) TO THE CONCRETE WITH 1/2" Ø ANCHORS AT 4'0" O/C UNLESS NOTED OTHERWISE. ANCHORING OPTIONS ARE AS FOLLOWS:

A. ANCHOR RODS CAST IN PLACE OR EPOXYED INTO PRE-DRILLED HOLES WITH THE HILTI HIT-400 (HIT-RE-500-V3) ADHESIVE ANCHORING SYSTEM. ANCHOR RODS SHALL HAVE A MINIMUM 5" EMBEDMENT, MINIMUM 3" PROJECTION ABOVE THE CONCRETE, AND 2 1/2" OR GREATER EDGE DISTANCE.

NOTE: ANCHOR RODS MUST BE HOOKED 1 1/2" AT THE BOTTOM IF THEY ARE NOT DEFORMED OR THREADED ALONG THEIR ENTIRE LENGTH.

B. HILTI KWIK BOLT (KWIK BOLT T2Z) MECHANICAL ANCHORS WITH A MINIMUM 3" EMBEDMENT, MINIMUM 3" PROJECTION ABOVE THE CONCRETE, AND 3" OR GREATER EDGE DISTANCE.

C. SEE SHEAR WALL SCHEDULE AND TYPICAL DETAILS FOR ALL ANCHORING REQUIREMENTS OF SHEAR WALLS.

10. NON-LOAD BEARING WALLS MAY BE FASTENED WITH 1/8" Ø POWER DRIVEN FASTENERS AT 16" O/C (MINIMUM 3/4" PENETRATION INTO CONCRETE).

11. SILL PLATES SHALL BEAR ON A LEVEL SURFACE. PROVIDE A LEVELLING BED OF MORTAR IF REQUIRED. PROVIDE A SILL GASKET UNDER SILL PLATES BEARING ON CONCRETE. SEE NOTES ON "MOISTURE BARRIERS" FOR SILL GASKET REQUIREMENTS.

WOOD FRAMING - WALLS

1. **LOAD BEARING WALLS** DENOTED ON PLAN THUS:

2. ALL EXTERIOR WALLS ARE LOAD BEARING.

3. SEE TYPICAL DETAILS FOR LOAD BEARING WALL CONNECTIONS BETWEEN FLOORS UNLESS NOTED OTHERWISE.

4. UNLESS NOTED OTHERWISE, PROVIDE A BUILT-UP STUD POST AT THE ENDS OF ALL BEAMS AND GIRDER TRUSSES FRAMING INTO A WALL. THE BUILT-UP STUD POST SHALL MATCH THE WIDTH OF THE BEAM, AND THE STUD SIZE SHALL MATCH THOSE IN THE WALL U.N.C. ON PLAN.

4. NAILING OF BUILT-UP STUD POSTS SHALL CONFORM TO THE FOLLOWING SCHEDULE. EACH STUD OF BUILT-UP POST SHALL BE NAILED.

| STUD | NAILING |
|-------|-----------------------------|
| 2 X 4 | 3" NAILS @ 8" O/C STAGGERED |
| 2 X 6 | 2 ROWS OF 3" NAILS @ 8" O/C |
| 2 X 8 | 2 ROWS OF 3" NAILS @ 8" O/C |

BUILT-UP STUD POST NAILING PATTERNS (BY STUD SIZE):

1 1/4" (1 1/2" FOR 4-PLY) 1 1/2" 1 1/2" 2"

BUILT-UP STUD POST NAILING PATTERNS (BY NUMBER OF PLYS):

2 PLY 3 PLY 4 PLY GREATER THAN 4 PLY

1/4" (6 mm) Ø ENGINEERED WOOD SCREWS (COUNTER-SUNK HEAD AT 16" O/C, ALTERNATE SCREW DIRECTIONS)

5. ALL POSTS AND BUILT-UP STUD POSTS SHOWN ON ANY LEVEL SHALL BE CARRIED DOWN TO THE CONCRETE UNLESS NOTED OTHERWISE. PROVIDE SOLID BLOCKING BETWEEN JOISTS UNDER ALL POSTS AND BUILT-UP POSTS.

6. ALL LOAD BEARING WALLS SHALL HAVE 2 CONTINUOUS TOP PLATES AND 1 CONTINUOUS BOTTOM PLATE. BEAMS OR HEADERS OVER OPENINGS IN WALLS SHALL BE DROPPED TO ALLOW THE TOP PLATES TO BE CONTINUOUS. WHERE 1 1/2" CYRRETE OR CONCRETE TOPPING IS USED ON THE FLOORS, PROVIDE 2 CONTINUOUS BOTTOM PLATES. DOUBLE PLATES SHALL BE SPLICED WITH A MINIMUM 2'-0" STAGGER AND LAPPED AT CORNERS. TOP AND BOTTOM PLATES WHICH HAVE BEEN CORED OR WHICH ARE DISCONTINUOUS SHALL BE REINFORCED AS FOLLOWS:

MAXIMUM 4" Ø HOLE IN 2 X 6 PLATE
MAXIMUM 2" Ø HOLE IN 2 X 4 PLATE
HOLE TO BE ON CENTERLINE OF PLATE.

1 1/4" X 1'-6" X 16 GAUGE STEEL STRAP EACH SIDE OF EACH PLATE. NAIL WITH 8-2 1/2" LONG NAILS AS SHOWN.

1 1/4" X 1'-6" X 16 GAUGE STEEL STRAP ON ONE SIDE OF EACH PLATE. NAIL WITH 8-2 1/2" LONG NAILS AS SHOWN.

7. WHERE PERMANENT SHEATHING IS NOT APPLIED TO STUDS PROVIDE BLOCKING AT 3'-4" O/C FOR 2 X 4 WALLS AND 2'-0" O/C FOR 2 X 6 WALLS.

8. ALL BEARING WALLS WITHOUT PLYWOOD SHEATHING BUT CLAD IN GYPSUM WALL BOARD TO HAVE STUD BLOCKING PER THE FOLLOWING TABLE. BLOCKING TO BE INSTALLED PRIOR TO PLACEMENT OF GYPSUM OR CONCRETE TOPPING.

| STUD HEIGHT | BLOCKING REQUIREMENT |
|-------------------|-----------------------|
| LESS THAN 4'-0" | NONE |
| 4'-0" TO 8'-10" | 1-ROW (MID HEIGHT) |
| 8'-10" TO 11'-10" | 2-ROWS (THIRD POINTS) |

9. EXTERIOR WALL OPENINGS LESS THAN 1200 mm WIDE TO HAVE AT LEAST ONE SILL PLATE, AT TOP OF DOOR OPENINGS, AND AT TOP AND BOTTOM OF WINDOW OPENINGS. EXTERIOR WALL OPENINGS GREATER THAN 1200 mm WIDE TO HAVE AT LEAST TWO SILL PLATES, AT TOP OF DOOR OPENINGS, AND AT TOP AND BOTTOM OF WINDOW OPENINGS.

10. NON-LOAD BEARING WALLS SHALL BE DETAILED TO ALLOW FOR DEFLECTION OF THE STRUCTURE TO PREVENT LOAD TRANSFER TO UNINTENDED ELEMENTS.

11. WHERE A RIM BOARD IS NOT BRACED BY A FLOOR SYSTEM, SUCH AS AT A STAIR SHAFT, EITHER THE RIM BOARD SHALL BE FULL WIDTH OF THE WALL OR ALL WALL STUDS SHALL BE FULLY BLOCKED BEHIND THE RIM BOARD.

ENGINEERED WOOD SCREWS

1. ENGINEERED WOOD SCREWS SPECIFIED IN THE DRAWINGS ARE ASSY SCREWS AS MANUFACTURED BY SWG AND PROVIDED BY MTO SOLUTIONS.

2. ALTERNATIVES WITH CANADIAN CONSTRUCTION MATERIALS CENTRE REPORTS (CCMC) APPROVAL ARE TO BE PRE-APPROVED BY RJC.

3. SCREW DESIGNATIONS: $S \times XX-XXX$

TYPE LENGTH (mm) DIAMETER (mm)

4. SCREW TYPES ARE AS FOLLOWS:

S1: SWG ASSY ECOFAST
S2: SWG ASSY VG CSK
S3: SWG ASSY SK
S4: SWG ASSY VG CYL
S5: SWG ASSY KAMB
SDD: SELF-DRILLING DOWEL

5. PROVIDE TAPERED HOLES IN STEEL SECTIONS TO SUIT FLUSH SCREW HEAD INSTALLATION.

6. PREDRILL HOLES AS RECOMMENDED BY SCREW MANUFACTURER.

7. SOME SAMPLE DETAILS ALSO REFERENCE USE OF SIMPSON STRONG TIE (SST) SDS SCREWS. ALTERNATIVES TO ALSO BE PRE-APPROVED BY RJC.

ENGINEERED WOOD PRODUCTS (E.W.P.) GENERAL

1. ENGINEERED WOOD PRODUCTS INCLUDE ALL PRE-MANUFACTURED BEAMS, COLUMNS, AND I-JOISTS BY WEYERHAEUSER TRUS JOIST AS SHOWN ON PLAN.

2. BEAMS EXPOSED TO VIEW IN FINISHED BUILDING SHALL BE SANDED APPEARANCE GRADE WITH STAMPS IN COVERED LOCATIONS.

3. ALL MANUFACTURED BEAMS, COLUMNS, AND I-JOISTS SHALL HAVE A MOISTURE CONTENT OF LESS THAN 12%. ALL WOOD SHALL BE WRAPPED AND PROTECTED FROM MOISTURE UNTIL IT IS INSTALLED.

4. SIZES OF BEAMS AND POSTS SHALL BE AS SPECIFIED ON PLAN.

5. BEAMS: MINIMUM STRENGTHS OF BEAMS AS SPECIFIED ON PLAN.

| TRUS JOIST DESIGNATION | MODULUS OF ELASTICITY (E) | SHEAR RESISTANCE (k) | BENDING RESISTANCE (fb) | BEARING RESISTANCE (fc) |
|------------------------|---------------------------|----------------------|-------------------------|-------------------------|
| LSL | 1.55E (1550 KSI) | 675 PSI | 4295 PSI | 1635 PSI |
| LVL | 2.0E (2000 KSI) | 530 PSI | 4805 PSI | 1365 PSI |
| PSL | 2.2E (2200 KSI) | 540 PSI | 5360 PSI | 1135 PSI |

BEAM DEFLECTIONS SHALL BE LIMITED TO SPAN/360 FOR LIVE LOAD AND SPAN/240 FOR TOTAL LOAD.

LSL - LAMINATED STRAND LUMBER (TRUS JOIST TIMBERSTRAND)
LVL - LAMINATED VENEER LUMBER (TRUS JOIST MICROLLAM)
PSL - PARALLEL STRAND LUMBER (TRUS JOIST PARALLAM)

6. COLUMNS: COLUMNS SHALL BE PSL 1.8E BY WEYERHAEUSER TRUS JOIST OR PRE-APPROVED EQUIVALENT.

7. UNLESS NOTED OTHERWISE ON PLAN STEEL CONNECTING HARDWARE FOR LSL, LVL, AND PSL BEAMS SHALL BE CAPABLE OF DEVELOPING 100% OF THE BEAM SHEAR CAPACITY.

8. PRODUCT SUBSTITUTIONS MUST BE PRE-APPROVED.

9. DO NOT SUBSTITUTE BUILT-UP MEMBERS OF SAWN TIMBER FOR ENGINEERED WOOD PRODUCTS.

10. PSL USED IN EXTERIOR APPLICATION SHALL MEET THE EXPOSURE REQUIREMENTS SPECIFIED BY THE MANUFACTURER. DO NOT USE LSL OR LVL FOR EXTERIOR APPLICATIONS.

11. ALL ENGINEERED WOOD PRODUCTS SHALL BE KEPT DRY AND PROTECTED FROM THE ENVIRONMENT DURING STORAGE ON OR OFF THE PROJECT SITE, AS PER THE MANUFACTURER'S REQUIREMENTS. STORE MATERIAL ELEVATED FROM GROUND AND WRAPPED TO SHED MOISTURE.

WOOD FRAMING - NAILING

1. NAILING SHALL CONFORM TO THE BUILDING CODE PART 9, AND "WOOD BUILDING TECHNOLOGY" PUBLISHED BY THE CANADIAN WOOD COUNCIL. NAILING CALLED UP ON THESE DRAWINGS (E.G. FOR SHEATHING) IS BASED ON COMMON NAILS.

2. UNLESS NOTED OTHERWISE NAIL ALL WALL, FLOOR, AND ROOF SHEATHING TO FRAMING MEMBERS WITH 2 1/2" NAILS. SPACE NAILS AT 6" O/C AT ALL SUPPORTED EDGES OF SHEATHING SHEETS AND AT 12" O/C AT ALL INTERMEDIATE SUPPORTS. FLOOR SHEATHING SHALL BE GUALED TO THE JOISTS IN ADDITION TO NAILING. SEE SHEAR WALL SCHEDULE OR DIAPHRAGM NAILING SCHEDULE FOR ADDITIONAL REQUIREMENTS.

3. DO NOT OVERDRIVE NAILS. NAILS OVERDRIVEN BY MORE THAN 10% OF PANEL THICKNESS MAY BE REJECTED.

4. ALL PNEUMATICALLY DRIVEN NAILS ARE TO HAVE FULL ROUND HEADS. PNEUMATIC NAILS THAT HAVE CLIPPED OR MOON SHAPED HEADS ARE NOT PERMITTED. MOST STRIP STYLE NAILERS USE CLIPPED OR MOON SHAPED HEADS. THEREFORE, ONLY COIL STYLE NAILERS THAT USE NAILS WITH FULL ROUND HEADS SHALL BE USED.

5. NAILS FOR JOIST HANGERS AND CONNECTION HARDWARE SHOULD BE AS SPECIFIED OR SUPPLIED BY THE MANUFACTURER.

6. NAILS SHALL BE COMMON ROUND STEEL WIRE NAILS OR PNEUMATIC NAILS (P NAILS) WITH MINIMUM DIAMETERS PER THE FOLLOWING TABLE. NAILS ARE CALLED UP BY LENGTH AND SHALL CONFORM TO THE FOLLOWING TABLE.

| LENGTH | PENNY WEIGHT | NAIL DIAMETER |
|--------|--------------|---------------|
| 2" | 6d | 0.131" |
| 2 1/2" | 8d | 0.131" |
| 3" | 10d | 0.148" |
| 3 1/4" | 12d | 0.148" |
| 3 1/2" | 16d | 0.162" |
| 4" | 20d | 0.192" |
| 4 1/2" | 30d | 0.207" |
| 5" | 40d | 0.228" |

NOTE: 3" X 0.131" NAILS MAY BE SUBSTITUTED FOR 3" X 0.148" NAILS PROVIDED ADDITIONAL NAILS ARE USED OR THE SPECIFIED NAIL SPACING IS REDUCED PER THE FOLLOWING TABLE.

| 3" X 0.148" NAIL SPACING SPECIFIED ON DRAWINGS | 3" X 0.131" NAIL SPACING (20% MORE NAILS REQUIRED) |
|------------------------------------------------|----------------------------------------------------|
| 12" | 10" |
| 10" | 8" |
| 8" | 6" |
| 6" | 5" |
| 4" | 3" |
| 3" | 2 1/2" |
| 2" | NOT APPLICABLE |

| ISSUED FOR 50% REVIEW | 2024.12.20 | KML |
|-----------------------|------------|---------|
| No. | Revision | Date By |

Drawing Notes

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3. Use of these drawings is limited to that identified in the Issued/Revision column. Do not construct from these drawings unless marked "Issued for Construction" by RJC in the Issued/Revision column, and then only for the parts noted. The drawings shall not be used for "tracing", "copying" or "re-use" unless as indicated in the Issued/Revision column. "Tracing" or "copying" drawings are not complete and any price based on such drawings must allow for this.

Scale

NOT FOR CONSTRUCTION

Project Name
PROPOSED COLLEGE DRIVE APARTMENTS

1202 COLLEGE DRIVE
SASKATOON, SK

Sheet Title
GENERAL NOTES

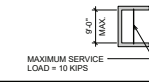
Drawn By **KML** Scale **As Indicated**
Designed By **PWM** Date **2024.12.20**
RJC Project Number **SAS.138936.0001**
Sheet Number **Revision**

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CROSS-LAMINATED TIMBER (CLT)

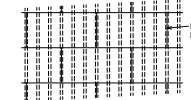
- ALL DESIGN, DETAILS, MATERIALS AND CONSTRUCTION PROCEDURES SHALL CONFORM TO CURRENT EDITIONS OF:
 - CANCSA-095 AND REFERENCED DOCUMENTS
 - CSA B111 - WIRE NAILS, SPIKES AND STAPLES
 - CLT HANDBOOK 2011 EDITION - FP INNOVATIONS PRG 320
 - ANNEX B OF CSA-C086
 IF EUROPEAN PANELS ARE PROPOSED, THE SUPPLIER MUST SUPPLY AN EQUIVALENCY REPORT FROM AN ENGINEER STATING THAT THE PANELS MEET ALL THE REQUIREMENTS OF CSA AND PRG IN COMPARISON TO THE CANADIAN SPECIFICATION AND THAT TESTING MEETS THE REQUIREMENTS OF PRG 320.
- CLT MEMBERS SHALL BE MANUFACTURED BY CSA APPROVED PLANT MEETING THE REQUIREMENTS OF ANSIVAPA PRG 320.
- CLT PANELS CONSIST OF DIMENSIONAL LUMBER, CROSSWISE STACKED AND GLUED TOGETHER, MINIMUM OF 3 LAYERS, MINIMUM THICKNESS TO BE 4 1/8" (102 mm).
- WHERE CLT PANELS UTILIZED AT STAIR AND ELEVATOR CORES THEY ARE CONSIDERED BALLOON FRAMED TO MINIMIZE SHRINKAGE WITH LOADS, REACTIONS, AND PROPOSED CONNECTIONS INDICATED ON WALL ELEVATIONS, PLANS, AND SECTIONS TO FACILITATE PERFORMANCE BASED DESIGN BY SUPPLIER'S ENGINEER.
- ANY CHANGES TO THE CLT FRAMING SHOWN ON THIS SET OF DRAWINGS SHALL HAVE PRIOR WRITTEN APPROVAL OF RJC. CHANGES WHICH HAVE NOT BEEN SO APPROVED WILL BE REJECTED.
- CLT SIZES ON STRUCTURAL DRAWINGS MAY BE REVISED BY SUPPLIER IF SPECIALTY ENGINEER DESIGNS VARIANCES TO MEET ALL STRUCTURAL, ARCHITECTURAL, ACOUSTIC, AND FIRE REQUIREMENTS TO THE SATISFACTION OF RJC AND THE ARCHITECT.
- CONFIRM ALL CLT DIMENSIONS AND OUTLINES WITH THE ARCHITECTURAL DRAWINGS. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL DIMENSIONS, ELEVATIONS AND DETAILS.
- THE SUPPLIER SHALL SUBMIT ADEQUATE PRODUCT CERTIFICATES TO RJC PRIOR TO COMMENCEMENT OF FABRICATION.
- COORDINATE PENETRATIONS THROUGH CLT PANELS WITH ARCHITECTURAL, ELECTRICAL AND MECHANICAL DRAWINGS. ALL PENETRATIONS AND OPENINGS TO BE SHOWN ON SHOP DRAWINGS AND TO BE APPROVED BY RJC PRIOR TO FABRICATION.
- AT JOINT LOCATIONS BETWEEN WALL TO FLOOR / ROOF PANELS AS WELL AS FLOOR / ROOF TO FLOOR PANELS USE JOINT SEALANT FOR IMPROVED ACOUSTIC PERFORMANCE. SEE ARCHITECTURAL DRAWINGS FOR DETAILS.
- ALL EXPOSED CLT CONNECTIONS SUPPORTING OR WITHIN FIRE RATED ASSEMBLIES TO MEET FIRE RESISTANCE RATING REQUIREMENTS. SEE ARCHITECTURAL DRAWINGS FOR DETAILS.
- ALL EXPOSED SURFACES TO BE VISUAL GRADE S-P-F L3. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL FINISH REQUIREMENTS.
- ERECTOR / CONTRACTOR TO TAKE MEASURES TO ENSURE ALL CLT PANELS ARE KEPT DRY AND PROTECTED FROM THE ENVIRONMENT DURING STORAGE, TRANSPORTATION, AND HANDLING ON OR OFF THE PROJECT SITE TO MAINTAIN SPECIFIED MOISTURE CONTENT. STORE MATERIAL ELEVATED FROM GROUND AND WRAPPED TO SHED MOISTURE. PROVIDE PRE-APPLIED MEMBRANE TO TOP AND SIDE SURFACES IN PLANT. WAX SEAL TO BE APPLIED TO CLT END GRAINS.
- CLT MEMBERS SHALL BE KEPT DRY AND PROTECTED FROM WEATHER. A SHOP APPLIED WATERPROOFING ADHESIVE MEMBRANE OR OTHER APPROVED EQUIPMENT SHALL BE USED AS A MINIMUM.
- CLT MOISTURE CONTENT 12% AVERAGE, WITH NO PIECE EXCEEDING 15%.
- FLOOR VIBRATION TO ACHIEVE PEAK ACCELERATION THRESHOLD FOR RESIDENTIAL, AND OFFICE SPACE OF 0.2%g DUE TO WALKING EXCITATION AS DEFINED IN AISC GUIDE 11.
- ALTERNATE PRICE FOR NLT FLOOR + PLYWOOD SHEATHING SUBSTITUTION (OR OTHER ONE WAY SYSTEM) HAS NOT BEEN STUDIED BY RJC AS PART OF THESE CURRENT DOCUMENTS AND IF PROVIDED AS PART OF THE BID AT THE SOLE DISCRETION OF THE SUPPLIER. PERFORMANCE OF THE ALTERNATE MUST BE EQUIVALENT OR BETTER THAN THE SPECIFIED SYSTEM.
- SEE ARCHITECTURAL FOR FINISHING REQUIREMENTS.
- SEE "FIRE PROTECTION OF EXPOSED WOOD MEMBERS" NOTE.
- SEE "MASS TIMBER CONNECTIONS" NOTE.
- REFER TO CLT SPECIFICATION FOR OTHER REQUIREMENTS.

ELEVATORS - WOOD

- SEE ELEVATOR SHOP DRAWINGS FOR ELEVATOR REQUIREMENTS, IN PARTICULAR:
 - CONFIRM SHAFT DIMENSIONS
 - CONFIRM PIT DEPTH
 - CONFIRM LOCATION OF DIVIDER BEAMS
 - CONFIRM ROUGH OPENING SIZE FOR DOORS
- STEEL BEAMS PROVIDING PERMANENT SUPPORT FOR ELEVATOR MACHINERY AND EQUIPMENT ARE NOT SHOWN ON THESE DRAWINGS. THEY SHALL BE DESIGNED AND DETAIL BY THE ELEVATOR SUB-CONTRACTOR. SHOP DRAWINGS SHOWING THESE BEAMS SHALL BE REVIEWED BY RJC FOR THEIR EFFECT ON THE BASE BUILDING STRUCTURE. THE CONCRETE INFILL SLAB AT THE TOP OF THE ELEVATOR SHAFT IS NOT DESIGNED TO SUPPORT THE ELEVATOR MACHINERY AND EQUIPMENT, UNLESS NOTED OTHERWISE. IF THE ELEVATOR MANUFACTURER NEEDS THE SLAB TO SUPPORT THE ELEVATOR MACHINERY AND EQUIPMENT, THEN THE ELEVATOR MANUFACTURER SHALL ADVISE RJC AND SHALL PROVIDE LOAD INFORMATION AS REFERENCED IN NOTE 3.
- THE ELEVATOR MANUFACTURER SHALL PROVIDE RJC WITH LOADING DATA IN ACCORDANCE WITH NATIONAL BUILDING CODE OF CANADA. REQUIREMENTS FOR ALL FORCES BEING IMPOSED ON THE STRUCTURE. ALL FORCES SHALL BE CLEARLY INDICATED IN THE REQUIRED LOCATIONS WITH APPLICABLE DIRECTIONS. ULTIMATE STRENGTH DESIGN FORCES SHALL BE PROVIDED. DEFLECTION DESIGN FORCES SHALL BE PROVIDED WITH ASSOCIATED DEFLECTION LIMITS, WHERE DEFLECTIONS ARE CRITICAL.
- PROVIDE A W10x19 HOIST BEAM IN THE CEILING OF THE ELEVATOR MACHINE ROOM SPANNING OVER THE ELEVATOR SHAFT. THE HOIST BEAM SHALL BE SUPPORTED ON EACH END AS PER WOOD ELEVATOR DETAILS ON S ____
 

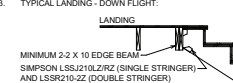
MAXIMUM SERVICE LOAD = 10 KIPLS


WOOD FRAMING - SHEATHING

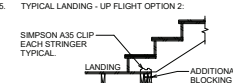
- ROOF SHEATHING: FLAT ROOF (SLOPE 15% MAXIMUM) S/P TONGUE AND GROOVE PLYWOOD
 - EXTERIOR WALL SHEATHING: 3/8" OSB ON EXTERIOR SIDE TYPICAL. SEE ALSO ARCHITECTURAL FOR ADDITIONAL SHEATHING REQUIREMENTS.
 - SHEAR WALL SHEATHING: SEE SHEAR WALL SCHEDULE FOR SHEATHING REQUIREMENTS AT SHEAR WALL LOCATIONS.
- LAY FLOOR AND ROOF SHEATHING WITH THE SURFACE GRAIN AT RIGHT ANGLES TO THE JOISTS. STAGGER THE JOINTS PARALLEL TO THE JOISTS.
 

END JOINTS OF PANELS MUST BE SUPPORTED
- DRYWALL OR SHEATHING ON LOAD BEARING WALLS OR SHEAR WALLS SHALL BE FASTENED DIRECTLY TO THE STUDS, WITHOUT THE USE OF RESILIENT METAL CHANNELS.

STAIR CONSTRUCTION

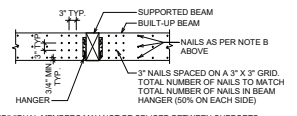
- TREADS: STAIR TREADS SHALL CONFORM TO BUILDING CODE SECTION 9.8.5 AND SHALL BE CLOSED RISERS.
- STRINGERS: STAIR STRINGERS SHALL BE SELECT STRUCTURAL D FIR U.O.
 - EXIT STAIRS WITH HALF HEIGHT LANDINGS:
 - MAXIMUM 10'-0" FLOOR TO FLOOR, MAXIMUM 3'-6" WIDE.
 - STAIR STRINGERS SHALL BE SPACED AT MAXIMUM 2'-0" APART.
 - INTERIOR STRINGERS SHALL BE MINIMUM 2 X 12 NOTCHED.
 - EDGE STRINGERS SHALL BE MINIMUM 1 X 12 NOTCHED.
 - NO OVER CUTTING OF STRINGERS ALLOWED.
 - MINIMUM 1/2" THROAT REQUIRED.
 - EXIT STAIRS WITHOUT HALF HEIGHT LANDINGS:
 - MAXIMUM 10'-0" FLOOR TO FLOOR, MAXIMUM 3'-6" WIDE.
 - STAIR STRINGERS SHALL HAVE MIN. 2 X 12 EACH SIDE OF STAIRS. NO CENTER STRINGER.
 - NO NOTCHING OF STRINGERS ALLOWED.
 - TREADS SHALL BE MINIMUM 1 1/2" THICK AND SUPPORTED AT TOE AND HEEL OF TREAD BETWEEN STRINGERS.
- TYPICAL LANDING - DOWN FLIGHT:
 

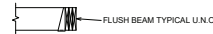
MINIMUM 2 X 10 EDGE BEAM
SIMPSON LSS210-ZZ (DOUBLE STRINGER) AND LSS210-ZZ (DOUBLE STRINGER) SLOPED HANGERS TYPICAL.
- TYPICAL LANDING - UP FLIGHT OPTION 1:
 

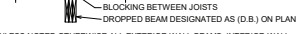
SIMPSON SSJ210-ZZ (SINGLE STRINGER) AND LSS210-ZZ (DOUBLE STRINGER) SLOPED HANGERS TYPICAL.
- TYPICAL LANDING - UP FLIGHT OPTION 2:
 

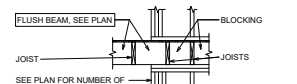
SIMPSON A35 CLIP EACH STRINGER
MINIMUM 2 X 10 EDGE BEAM
ADDITIONAL 2 X 6 CONTINUOUS BLOCKING REQUIRED IF STRINGER OVERHANGS EDGE BEAM CW 2 ROWS OF 3" NAILS @ 6" O.C.

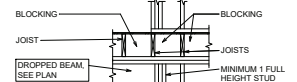
WOOD FRAMING - BEAMS

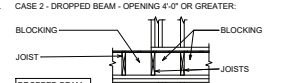
- BUILT-UP SAWN LUMBER BEAMS (E.G. 3-2 X 10) SHALL HAVE EACH PLY NAILED TOGETHER WITH COMMON NAILS AS FOLLOWS:
 - FOR TOP LOADED BEAMS: 2 ROWS OF 3" NAILS AT 12" O.C.
 - FOR BEAMS SIDE LOADED WITH UNIFORM JOISTS:
 - BEAM DEPTH < 9 1/4": 2 ROWS OF 3" NAILS AT 6" O.C.
 - BEAM DEPTH ≥ 9 1/4": 3 ROWS OF 3" NAILS AT 6" O.C.
 - FOR BEAMS SIDE LOADED WITH A BEAM (POINT LOAD):
 

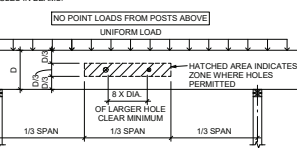
3" NAILS SPACED ON A 3" X 3" GRID
TOTAL NUMBER OF NAILS TO MATCH HANGER (50% ON EACH SIDE)
 INDIVIDUAL MEMBERS MAY NOT BE SPLICED BETWEEN SUPPORTS.
- FOR ENGINEERED PRODUCTS, NAILING REQUIREMENTS OF LAMINATES SHALL BE SPECIFIED ON ENGINEERED SHOP DRAWINGS PROVIDED BY BEAM SUPPLIER.
- FLUSH BEAMS:
 

FLUSH BEAM TYPICAL U.O.
- DROPPED BEAMS:
 

BLOCKING BETWEEN JOISTS
DROPPED BEAM DESIGNATED AS (D.B.) ON PLAN
- UNLESS NOTED OTHERWISE ALL EXTERIOR WALL BEAMS, INTERIOR WALL BEAMS, AND DOOR HEADER BEAMS ARE DROPPED. UNLESS NOTED OTHERWISE ALL OTHER INTERIOR BEAMS ARE FLUSH.
 - CASE 1 - FLUSH BEAM:
 

FLUSH BEAM, SEE PLAN
BLOCKING
JOIST
SEE PLAN FOR NUMBER OF STUDS, MINIMUM 2 STUDS TOTAL
 - CASE 2 - DROPPED BEAM - OPENING LESS THAN 4'-0":
 

BLOCKING
BLOCKING
JOISTS
DROPPED BEAM, SEE PLAN
MINIMUM 1 FULL HEIGHT STUD
SPAN LESS THAN 4'-0"
SEE PLAN FOR NUMBER OF STUDS
 - CASE 2 - DROPPED BEAM - OPENING 4'-0" OR GREATER:
 

BLOCKING
BLOCKING
JOIST
DROPPED BEAM, SEE PLAN
MINIMUM 1 FULL HEIGHT STUD
SPAN 4'-0" OR GREATER
SEE PLAN FOR NUMBER OF STUDS
2 JACK STUDS UNDER BEAM
- HOLES IN BEAMS:
 

NO POINT LOADS FROM POSTS ABOVE
UNIFORM LOAD
HATCHED AREA INDICATES ZONE WHERE HOLES PERMITTED
8 X DIA. OF LARGER HOLE CLEAR MINIMUM
1/3 SPAN

| NOTES: | BEAM DEPTH | MAXIMUM HOLE DIAMETER |
|--------------------------------------|------------|-----------------------|
| 1. MAXIMUM 3 HOLES PER SPAN. | 3 1/2" | 3/4" |
| 2. CONTACT RJC FOR OTHER CONDITIONS. | 5 1/2" | 1 1/8" |
| | 7 1/4" | 1 1/2" |
| | > 7 1/4" | 2" |

| 1 ISSUED FOR 50% REVIEW | | | | 2024.12.20 | KML |
|-------------------------|----------|------|----|------------|-----|
| No. | Revision | Date | By | | |
| | | | | | |

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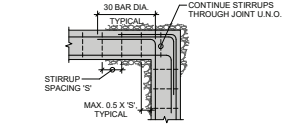
Project Name
PROPOSED COLLEGE DRIVE APARTMENTS

1202 COLLEGE DRIVE
SASKATOON, SK

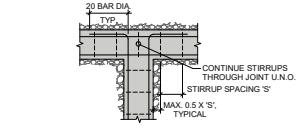
Sheet Title
GENERAL NOTES

Drawn By **PWM** Scale **As Indicated**
Designed By **PWM** Date **2024.12.20**
RJC Project Number **SAS.138936.0001**
Sheet Number **Revision**

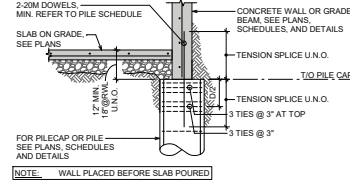
S 1.10 **1**
2024-12-20 18:56:23



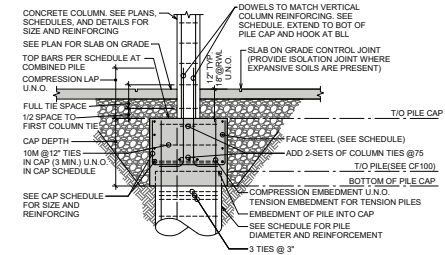
CF133
S 2.1
GRADE BEAM CORNER INTERSECTION (PLAN VIEW)
1/2" = 1'-0"



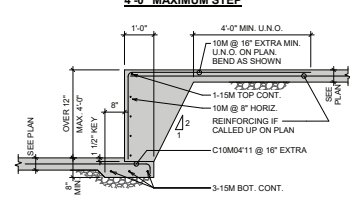
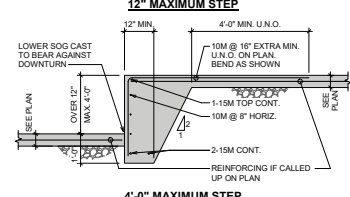
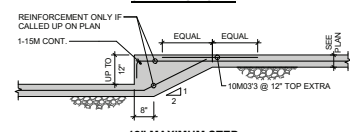
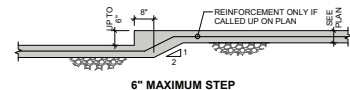
CF130
S 2.1
GRADE BEAM TEE INTERSECTION (PLAN VIEW)
1/2" = 1'-0"



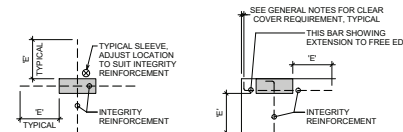
CF108
S 2.1
CONCRETE WALL / BEAM ON CONCRETE PILE
1/2" = 1'-0"



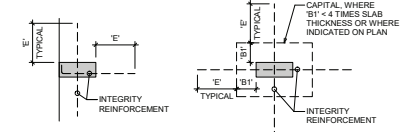
CF102
S 2.1
INTERIOR CONCRETE COLUMN ON PILE CAP
1/2" = 1'-0"



CG001
S 2.1
SLAB ON GRADE STEP DETAILS
1/2" = 1'-0"



CASE A: INTERIOR COLUMN **CASE B: CORNER COLUMN**

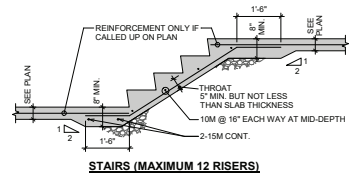


CASE C: EDGE COLUMN **CASE D: INTERIOR COLUMN WITH CAPITAL (CORNER AND EDGE COLUMNS SIMILAR)**

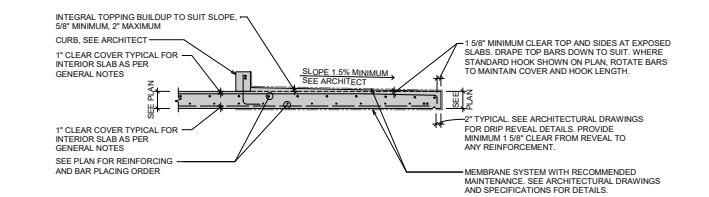
NOTE: DISTANCE 'E' SHALL BE OVERLAP WITH BOTTOM REINFORCEMENT OF TWO TIMES THE CASE 1 EMBEDMENT LENGTH OF THE INTEGRITY REINFORCEMENT BAR.

CS001
S 2.1
TYPICAL INTEGRITY REINFORCEMENT CONFIGURATION, FLAT PLATES WITH CONTINUOUS BOTTOM REINFORCEMENT
1/4" = 1'-0"

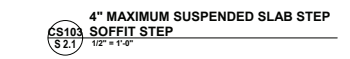
- NOTES:
1. COLUMN PLACED BEFORE SLAB POURED. IF SLAB ON GRADE IS POURED WITH INTEGRAL PEDESTAL TO TOP OF PILE CAP, LAP OF DOWELS TO COLUMN VERTICAL BARS TO BE MEASURED FROM TOP OF SLAB ON GRADE.
 2. DETAIL ONLY FOR CAPS CONCENTRICALLY LOCATED ON SINGLE PILES.
 3. FOR UNREINFORCED DRILLED PILES ADD DOWELS FROM PILE INTO CAP EQUIVALENT TO 1% OF PILE CROSS-SECTIONAL AREA (6-20M BARS MIN) WITH COMPRESSION DEVELOPMENT LENGTHS EACH END MIN.



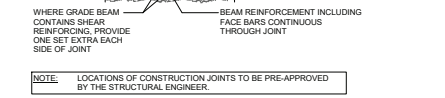
CG002
S 2.1
SLAB ON GRADE STAIRS
1/2" = 1'-0"



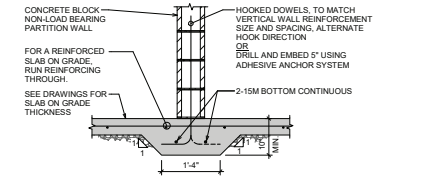
CS130
S 2.1
TYPICAL BALCONY OR EYEBROW WITH CURB SECTION
1/2" = 1'-0"



CS103
S 2.1
4" MAXIMUM SUSPENDED SLAB STEP SOFFIT STEP
1/2" = 1'-0"



CF132
S 2.1
GRADE BEAM CONSTRUCTION JOINT (ELEV VIEW)
1/2" = 1'-0"



CG003
S 2.1
TYPICAL SLAB ON GRADE THICKENING UNDER NON-LOAD BEARING BLOCK PARTITION
3/4" = 1'-0"

| No. | Revision | Date | By |
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| 1 | ISSUED FOR 50% REVIEW | 2024.12.20 | KML |

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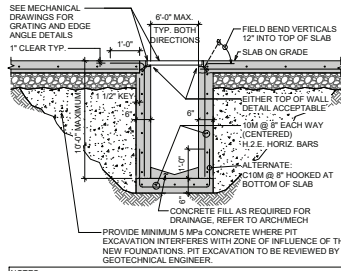
NOT FOR CONSTRUCTION

Project Name
PROPOSED COLLEGE DRIVE APARTMENTS

1202 COLLEGE DRIVE
SASKATOON, SK

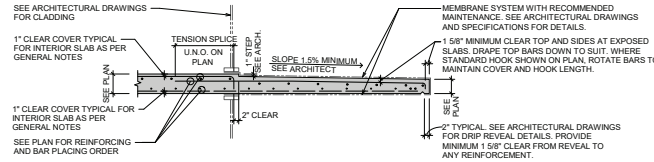
Sheet Title
TYPICAL DETAILS

Drawn By **KML** Scale **As Indicated**
Designed By **PWM** Date **2024.12.20**
RJC Project Number **SAS.138936.0001**
Sheet Number
S 2.1 1

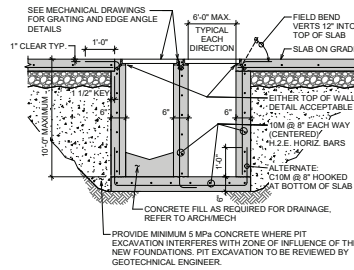


- NOTES:**
- SEE MECHANICAL AND ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR SIZE, LOCATION AND WATERPROOFING REQUIREMENTS.
 - PRECAST ALTERNATIVE MAY BE PROPOSED BY CONTRACTOR IF ACCEPTABLE TO ARCHITECT AND MECHANICAL CONSULTANT. STRUCTURAL DESIGN OF PRECAST ALTERNATIVE NOT BY RJC. SUBMIT SHOP DRAWINGS AND RELATED SCHEDULES FOR PRECAST ALTERNATIVE SIGNED AND SEALED BY LICENSED SPECIALTY ENGINEER FOR REVIEW.

CF901 SUMP / ACCESS PIT
§ 2.2 1/2" = 1'-0"

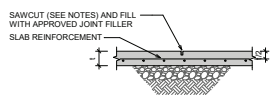


CS131 TYPICAL BALCONY OR EYEBROW WITH STEP DOWN SECTION
§ 2.2 1/2" = 1'-0"

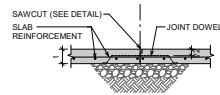


- NOTES:**
- SEE MECHANICAL AND ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR SIZE, LOCATION AND WATERPROOFING REQUIREMENTS.
 - PRECAST ALTERNATIVE MAY BE PROPOSED BY CONTRACTOR IF ACCEPTABLE TO ARCHITECT AND MECHANICAL CONSULTANT. STRUCTURAL DESIGN OF PRECAST ALTERNATIVE NOT BY RJC. SUBMIT SHOP DRAWINGS AND RELATED SCHEDULES FOR PRECAST ALTERNATIVE SIGNED AND SEALED BY LICENSED SPECIALTY ENGINEER FOR REVIEW.

CF902 DOUBLE SUMP / ACCESS PIT
§ 2.2 1/2" = 1'-0"



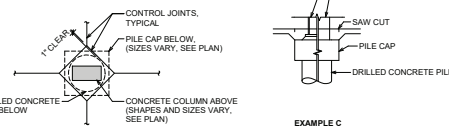
CG104 SINGLE LAYER OF REINFORCEMENT
§ 2.2 1/2" = 1'-0"



CG133 C-MEDIUM DUTY
§ 2.2 1/2" = 1'-0"

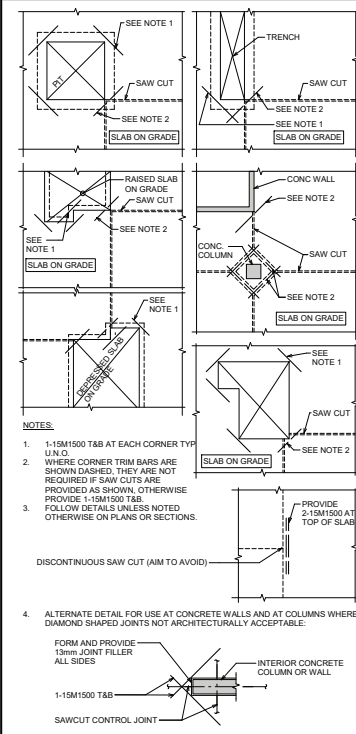
| SAWCUT TABLE | |
|--------------------------|----------------------------|
| SLAB THICKNESS T (in) | REQUIRED SAWCUT DEPTH |
| 1 < 5" | 1/3 BUT NOT LESS THAN 1.5" |
| 5" ≤ T ≤ 6" | |
| 6" ≤ T ≤ 7" | |
| 7" ≤ T ≤ 8" | 1/3 BUT NOT LESS THAN 2" |
| 8" ≤ T ≤ 10" | |
| 10" ≤ T ≤ 12" | |

CG106 SAWCUT TABLE
§ 2.2 1:20



CG109 INTERIOR COLUMN ON CONCRETE PILES (WITH PILE CAP)
§ 2.2 1/4" = 1'-0"

ADDITIONAL SLAB BARS AT RE-ENTRANT CORNERS



- NOTES:**
- 1-15M1500 T&B AT EACH CORNER TYP U.N.O.
 - WHERE CORNER TRIM BARS ARE SHOWN DASHED, THEY ARE NOT REQUIRED IF SAW CUTS ARE PROVIDED AS SHOWN, OTHERWISE PROVIDE 1-15M1500 T&B.
 - FOLLOW DETAILS UNLESS NOTED OTHERWISE ON PLANS OR SECTIONS.
 - ALTERNATE DETAIL FOR USE AT CONCRETE WALLS AND AT COLUMNS WHERE DIAMOND SHAPED JOINTS NOT ARCHITECTURALLY ACCEPTABLE.

| No. | Revision | Date | By |
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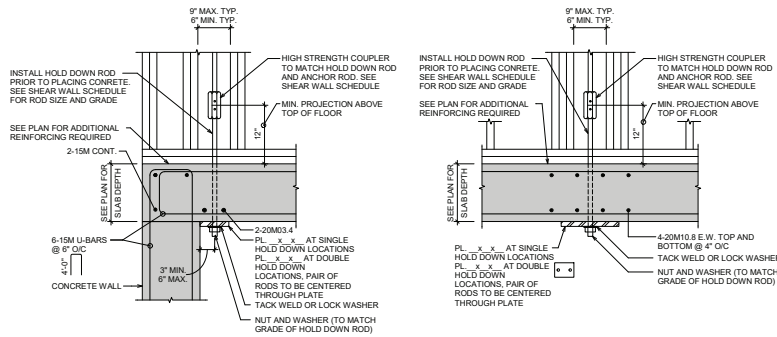
Project Name
PROPOSED COLLEGE DRIVE APARTMENTS

1202 COLLEGE DRIVE
SASKATOON, SK

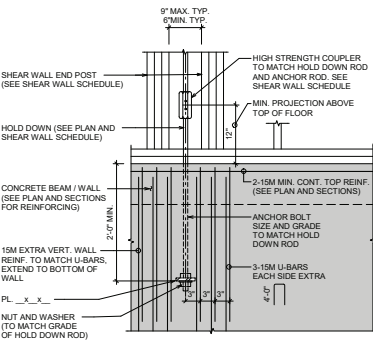
Sheet Title
TYPICAL DETAILS

Drawn By **KML** Scale **As Indicated**
Designed By **PWM** Date **2024.12.20**
RJC Project Number **SAS.138936.0001**
Sheet Number **S 2.2** Revision **1**

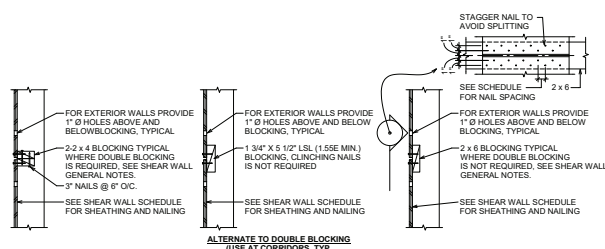
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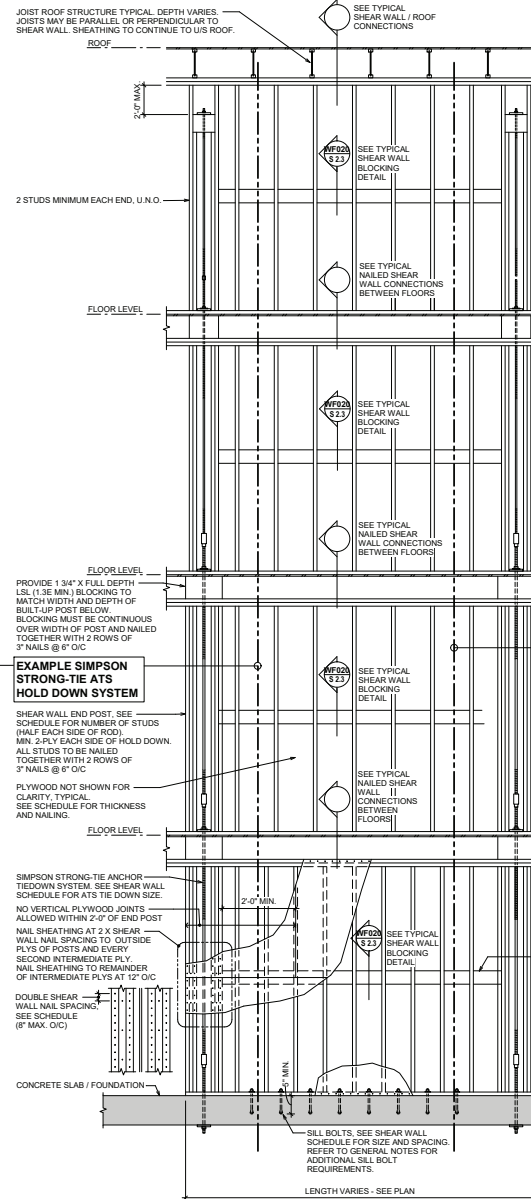
WF004 HOLD DOWN CONNECTION TO CONCRETE SLAB
S 2.3 1" = 1'-0"



WF006 TYPICAL HOLD DOWN CONNECTION TO CONCRETE WALL
S 2.3 1" = 1'-0"



WF020 TYPICAL SHEAR WALL BLOCKING DETAIL
S 2.3 1" = 1'-0"



WF001 EXAMPLE 4 STOREY WOOD FRAME SHEAR WALL ELEVATION
S 2.3 1/2" = 1'-0"

| No. | Revision | Date | By |
|-----|-----------------------|------------|-----|
| 1 | ISSUED FOR 50% REVIEW | 2024.12.20 | KML |

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Project Name
PROPOSED COLLEGE DRIVE APARTMENTS

1202 COLLEGE DRIVE
SASKATOON, SK

Sheet Title
TYPICAL DETAILS

| Drawn By | KML | Scale | As Indicated |
|--------------------|-----------------|----------|--------------|
| Designed By | PWM | Date | 2024.12.20 |
| RJC Project Number | SAS.138936.0001 | Revision | |
| Sheet Number | | | |

S 2.3 **1**

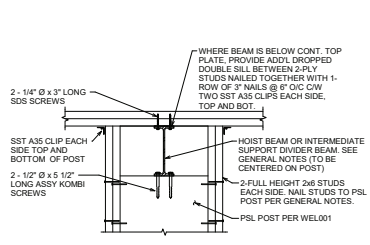
| NOTES | | SW4 | SW3 | SW2 | SW1 | LEGEND | LEVEL |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|--------------|
| 1. SHEAR WALLS SHOWN ON PLAN AS THIS: SW TAG SHOWN ON PREFERRED SIDE OF WALL TO ATTACH SHEATHING SHEAR WALL END POST (3 STUDS ON OUTSIDE, ROD, THEN REMAINDER OF STUDS ON THE INSIDE) 2. NAILS SHALL BE COMMON WIRE NAILS OR PNEUMATIC NAILS THAT ARE EQUIVALENT TO THE COMMON NAIL SIZES BELOW: | | 1 ROW @ 4" O/C 18" O/C 7/16" OSB 1 SIDE 2 1/2" @ 4" O/C 4-2x4 MDCS-1 1/2 1 ROW @ 4" O/C 1 ROW @ 3" O/C | 1 ROW @ 4" O/C 18" O/C 7/16" OSB 1 SIDE 2 1/2" @ 4" O/C 4-2x4 MDCS-1 1/2 1 ROW @ 4" O/C 1 ROW @ 3" O/C | 1 ROW @ 6" O/C 24" O/C 7/16" OSB 1 SIDE 2 1/2" @ 6" O/C 4-2x4 MDCS-1 1/4 1 ROW @ 6" O/C 1 ROW @ 3" O/C | 1 ROW @ 6" O/C 24" O/C 7/16" OSB 1 SIDE 2 1/2" @ 6" O/C 4-2x4 MDCS-1 1/4 1 ROW @ 6" O/C 1 ROW @ 3" O/C | NAILING TO BLOCKING / TRUSS | ROOF |
| 3. ABBREVIATIONS USED IN THE SCHEDULE: B.S. ----- BOTH SIDES OF STUD S.S.T. ----- SIMPSON STRONG-TIE E.F.S. ----- EACH FACE STAGGERED T.O.W. ----- TOP OF WALL | | 18" O/C 7/16" OSB 1 SIDE 2 1/2" @ 4" O/C 4-2x4 MDCS-1 1/2 1 ROW @ 4" O/C 1 ROW @ 3" O/C | 18" O/C 7/16" OSB 1 SIDE 2 1/2" @ 4" O/C 4-2x4 MDCS-1 1/2 1 ROW @ 4" O/C 1 ROW @ 3" O/C | 24" O/C 7/16" OSB 1 SIDE 2 1/2" @ 6" O/C 4-2x4 MDCS-1 1/4 1 ROW @ 6" O/C 1 ROW @ 3" O/C | 24" O/C 7/16" OSB 1 SIDE 2 1/2" @ 6" O/C 4-2x4 MDCS-1 1/4 1 ROW @ 6" O/C 1 ROW @ 3" O/C | SHEAR CLIPS T.O.W. SHEATHING NAILING END POSTS HOLD DOWN (EACH END) SILL NAILS TYPE 'A' SILL NAILS TYPE 'B' | SIXTH FLOOR |
| 4. NAILING SHOWN ON SCHEDULE APPLIES TO ALL FREE EDGES OF SHEATHING PANELS. PROVIDE NAILS AT 12" O/C ALONG INTERMEDIATE SUPPORTS. | | 18" O/C 7/16" OSB 1 SIDE 2 1/2" @ 4" O/C 4-2x4 MDCS-1 1/2 1 ROW @ 4" O/C 1 ROW @ 3" O/C | 18" O/C 7/16" OSB 1 SIDE 2 1/2" @ 4" O/C 4-2x4 MDCS-1 1/2 1 ROW @ 4" O/C 1 ROW @ 3" O/C | 24" O/C 7/16" OSB 1 SIDE 2 1/2" @ 6" O/C 4-2x4 MDCS-1 1/4 1 ROW @ 6" O/C 1 ROW @ 3" O/C | 24" O/C 7/16" OSB 1 SIDE 2 1/2" @ 6" O/C 4-2x4 MDCS-1 1/4 1 ROW @ 6" O/C 1 ROW @ 3" O/C | SHEAR CLIPS T.O.W. SHEATHING NAILING END POSTS HOLD DOWN (EACH END) SILL NAILS TYPE 'A' SILL NAILS TYPE 'B' | FIFTH FLOOR |
| 5. BLOCK ALL UNSUPPORTED EDGES WITH 2x BLOCKING. SEE GENERAL NOTES. TYPICAL SHEAR WALL BLOCKING DETAIL. DOUBLE STUDS AND DOUBLE BLOCKING ARE REQUIRED AT PANEL EDGES WHERE SHEAR WALL NAIL SPACING IS LESS THAN 3" O/C OR NAIL LENGTH IS GREATER THAN 2 1/2" NAIL. DOUBLE STUDS / BLOCKING TOGETHER WITH TWO ROWS OF 3" NAILS AT 4" O/C. | | 18" O/C 7/16" OSB 1 SIDE 2 1/2" @ 4" O/C 4-2x4 MDCS-1 1/2 1 ROW @ 4" O/C 1 ROW @ 3" O/C | 18" O/C 7/16" OSB 1 SIDE 2 1/2" @ 4" O/C 4-2x4 MDCS-1 1/2 1 ROW @ 4" O/C 1 ROW @ 3" O/C | 24" O/C 7/16" OSB 1 SIDE 2 1/2" @ 6" O/C 4-2x4 MDCS-1 1/4 1 ROW @ 6" O/C 1 ROW @ 3" O/C | 24" O/C 7/16" OSB 1 SIDE 2 1/2" @ 6" O/C 4-2x4 MDCS-1 1/4 1 ROW @ 6" O/C 1 ROW @ 3" O/C | SHEAR CLIPS T.O.W. SHEATHING NAILING END POSTS HOLD DOWN (EACH END) SILL NAILS TYPE 'A' SILL NAILS TYPE 'B' | FOURTH FLOOR |
| 6. DOUBLE RIM BOARD OR DOUBLE BLOCKING IS REQUIRED WHERE TWO ROWS OF SILL NAILS 'B' ARE NOTED IN THE SHEAR WALL SCHEDULE. REFER TO TYPICAL DETAILS FOR ADDITIONAL REQUIREMENTS. | | 18" O/C 7/16" OSB 1 SIDE 2 1/2" @ 4" O/C 4-2x4 MDCS-1 1/2 1 ROW @ 4" O/C 1 ROW @ 3" O/C | 18" O/C 7/16" OSB 1 SIDE 2 1/2" @ 4" O/C 4-2x4 MDCS-1 1/2 1 ROW @ 4" O/C 1 ROW @ 3" O/C | 24" O/C 7/16" OSB 1 SIDE 2 1/2" @ 6" O/C 4-2x4 MDCS-1 1/4 1 ROW @ 6" O/C 1 ROW @ 3" O/C | 24" O/C 7/16" OSB 1 SIDE 2 1/2" @ 6" O/C 4-2x4 MDCS-1 1/4 1 ROW @ 6" O/C 1 ROW @ 3" O/C | SHEAR CLIPS T.O.W. SHEATHING NAILING END POSTS HOLD DOWN (EACH END) SILL NAILS TYPE 'A' SILL NAILS TYPE 'B' | THIRD FLOOR |
| 7. PROVIDE DOUBLE BOTTOM SILL PLATES FOR SHEAR WALLS SHEATHED BOTH SIDES OR FOR FLOORS WITH CONCRETE TOPPING. ALL STUDS IN SHEAR WALLS SHALL BE KLN DRIED D/F R NO.1NO.2 GRADE OR BETTER. | | 18" O/C 7/16" OSB 1 SIDE 2 1/2" @ 4" O/C 4-2x4 MDCS-1 1/2 1 ROW @ 4" O/C 1 ROW @ 3" O/C | 18" O/C 7/16" OSB 1 SIDE 2 1/2" @ 4" O/C 4-2x4 MDCS-1 1/2 1 ROW @ 4" O/C 1 ROW @ 3" O/C | 24" O/C 7/16" OSB 1 SIDE 2 1/2" @ 6" O/C 4-2x4 MDCS-1 1/4 1 ROW @ 6" O/C 1 ROW @ 3" O/C | 24" O/C 7/16" OSB 1 SIDE 2 1/2" @ 6" O/C 4-2x4 MDCS-1 1/4 1 ROW @ 6" O/C 1 ROW @ 3" O/C | SHEAR CLIPS T.O.W. SHEATHING NAILING END POSTS HOLD DOWN (EACH END) SILL BOLTS | SECOND FLOOR |

SYMBOL LEGEND:
 † DOUBLE STUDS/DOUBLE BLOCKING (SEE NOTE 5)
 # DOUBLE RIM BOARD/DOUBLE BLOCKING (SEE NOTE 6)
 ◊ SHEAR WALL CLIPS ON BOTH SIDES OF WALL AT STATED SPACING

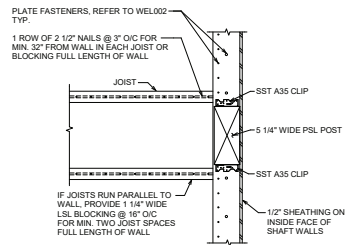
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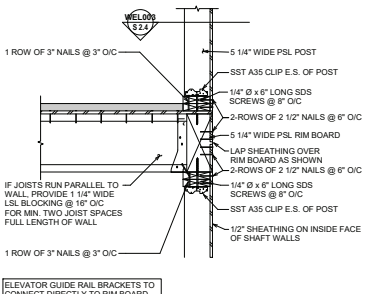
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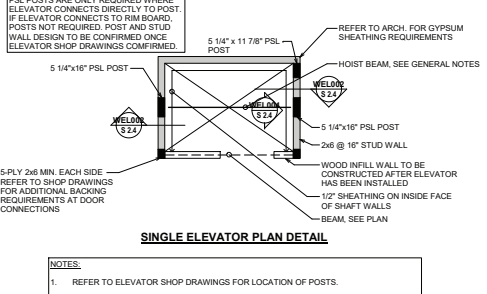
WEL004 HOIST BEAM AND INTERMEDIATE SUPPORT DIVIDER BEAM TO PSL POST
S 24 1" = 1'-0"



WEL003 ELEVATOR WALL PLAN DETAIL
S 24 1" = 1'-0"



WEL002 JOISTS TO ELEVATOR WALL CONNECTION
S 24 1" = 1'-0"



WEL001 ELEVATOR PARTIAL PLAN
S 24 1/4\"/>

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Project Name
PROPOSED COLLEGE DRIVE APARTMENTS

1202 COLLEGE DRIVE
SASKATOON, SK

Sheet Title
TYPICAL DETAILS

Drawn By **KML** Scale **As Indicated**
 Designed By **PWM** Date **2024.12.20**
 RJC Project Number **SAS.138936.0001**

Sheet Number
S 2.4

Revision
1

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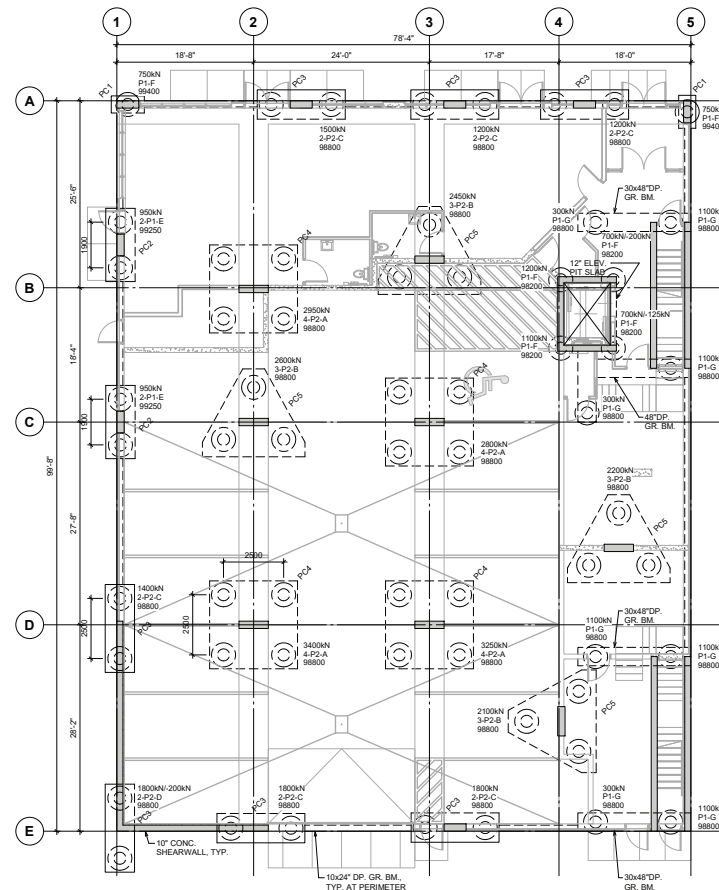
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COLUMN AND PILECAP LEGEND

INDICATES PILE OR PILECAP
 COLUMN MARK SEE COLUMN SCHEDULE
 FACTORED LOAD/ UPLIFT LOAD/ FACTORED BENDING MOMENT ON PILE
 PILE TYPE, SEE SCHEDULE
 PILECAP DETAIL, SEE DETAILS
 ELEVATION (mm) TOP OF PILE W/ REFERENCE TO MAIN FLOOR ELEVATION = 100000 mm

PILE CAP SCHEDULE

| MARK | SIZE |
|------|-----------------------------|
| PC1 | 4'-6" X 2'-3" X 2'-0" DP. |
| PC2 | 10'-0" X 4'-0" X 2'-6" DP. |
| PC3 | 12'-0" X 4'-0" X 4'-0" DP. |
| PC4 | 12'-0" X 12'-0" X 4'-0" DP. |
| PC5 | 14'-0" X 12'-0" X 4'-0" DP. |



FOUNDATION PLAN
1/8" = 1'-0"

| No. | Revision | Date | By |
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Project Name
PROPOSED COLLEGE DRIVE APARTMENTS

1202 COLLEGE DRIVE
SASKATOON, SK

Sheet Title
FOUNDATION PLAN

| Drawn By | Author | Scale | As Indicated |
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| Sheet Number | Revision | | |

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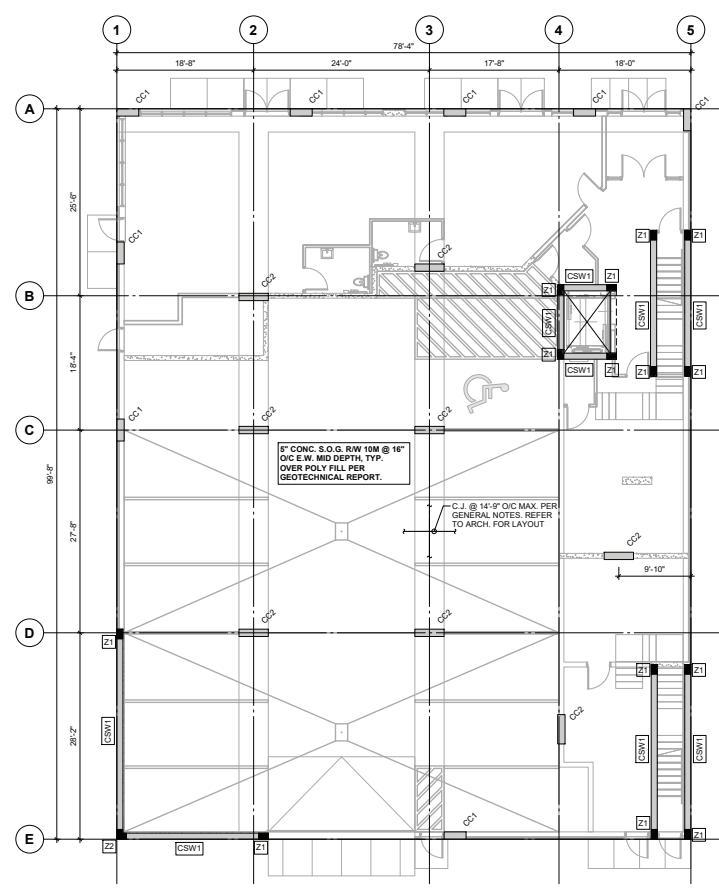


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| CONCRETE COLUMN SCHEDULE | | |
|--------------------------|-----------|----------------------------------|
| MARK | SIZE | REINFORCING |
| CC1 | 12" X 36" | 10-20M VERTS, 10M TIES @ 12" O/C |
| CC2 | 12" X 48" | 10-25M VERTS, 10M TIES @ 12" O/C |

| ZONE SCHEDULE | | |
|--------------------------------|--------------------------------|---------------|
| Z2 | Z1 | ELEMENT LEVEL |
| 8-15M VERT, 10M TIES @ 10" O/C | 4-15M VERT, 10M TIES @ 10" O/C | LEVEL 1 |

| CONC. SHEAR WALL SCHEDULE | | |
|---------------------------------|-------------------|---------------|
| CSW1 | CONCRETE STRENGTH | ELEMENT LEVEL |
| 10" WALL RW 10M @ 10" E.W. E.F. | 25MPa UNCC | LEVEL 1 |



MAIN FLOOR PLAN
1/8" = 1'-0"

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Project Name
PROPOSED COLLEGE DRIVE APARTMENTS

1202 COLLEGE DRIVE
SASKATOON, SK

Sheet Title
MAIN FLOOR PLAN

| Drawn By | Author | Scale | As Indicated |
|--------------------|------------------------|-------|--------------|
| Designed By | Designer | Date | 2024.12.20 |
| RJC Project Number | SAS.138936.0001 | | |
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SLAB STRUCTURE

1. **BASIC BOTTOM REINFORCING MAT**
18" DEEP SLAB RW 20M @ 6" EACH WAY BOTTOM
PLUS EXTRA BOTTOM BARS AS SHOWN ON THE PLAN.
CENTER EXTRA BOTTOM BARS ALONG COLUMN CENTER LINES AND SPACE AT 4" O/C UNLESS NOTED OTHERWISE ON THE PLAN. ALL BOTTOM REINFORCING TO BE TENSION SPICED

2. **BAR PLACING ORDER**
4. ↓ TOP UPPER LAYER (T.U.L.)
3. ← TOP LOWER LAYER (T.L.L.)
2. → BOTTOM UPPER LAYER (B.U.L.)
1. ↓ BOTTOM LOWER LAYER (B.L.L.)

CONCRETE OUTLINE LEGEND

— SLOPE SLAB OR SLAB BAND SOFFIT DOWN
 CONCRETE BUILD-UP USED TO FORM SLOPE. REFER TO ARCH. SLAB DEPTHS NOTED ON PLAN DO NOT INCLUDE CONCRETE BUILD-UP.
 DENOTES MECHANICAL PENETRATION THROUGH SLAB. SEE MECHANICAL DRAWINGS.

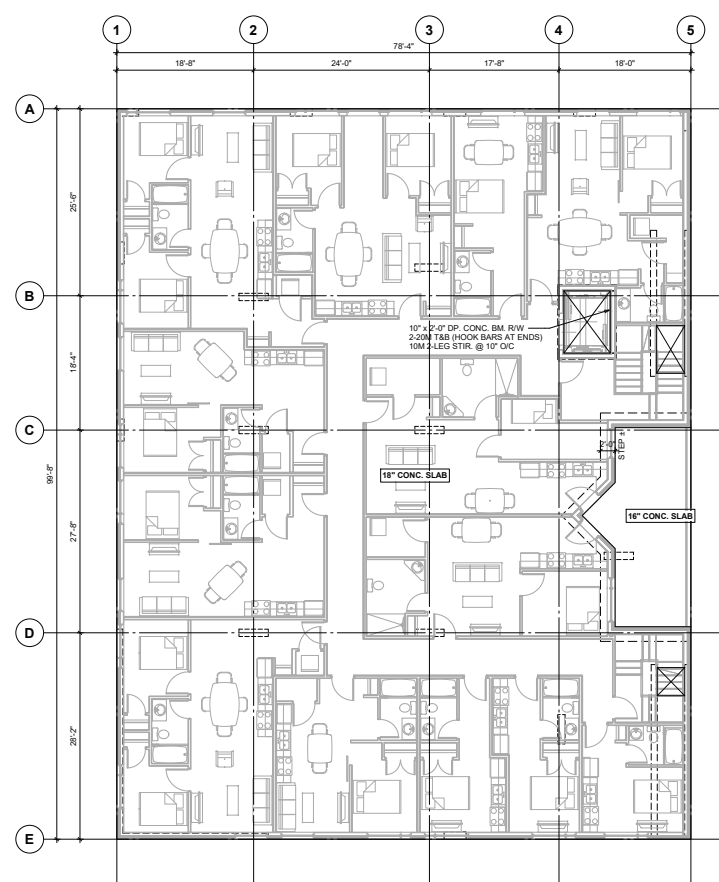
SHEARWALL HOLD-DOWN REINFORCING

⊠ DENOTES SHEAR WALL HOLD-DOWN LOCATION
 U.N.O. CENTER EXTRA REINFORCING AROUND HOLD-DOWN LOCATIONS, SPACE @ 4" O/C U.N.O.
 REFER TO TYPICAL SHEAR WALL HOLD-DOWN DETAILS FOR ADDITIONAL REQUIREMENTS
 CONTRACTOR TO LOCATE EXACT POSITION OF HOLD-DOWNS PRIOR TO PLACEMENT OF REINFORCING IN WALLS AND SLABS. SEE DETAILS / SECTIONS ON IF DRILLING HOLES THROUGH CURED SLAB. ENSURE REINFORCING WILL NOT BE INTERFERING WITH THE HOLD-DOWN BOLT LOCATION.

INTEGRITY REINFORCING

1. UNLESS NOTED OTHERWISE ON PLAN, ALL FLAT PLATE SLABS TO HAVE THE FOLLOWING INTEGRITY REINFORCEMENT:

| MARK | SLAB THICKNESS | REINFORCING |
|------|----------------|-------------------------|
| IR1 | 14" | 3-25M E.W. |
| IR2 | 16" | 4-25M S.W. + 3-25M L.W. |



SECOND FLOOR PLAN
1/8" = 1'-0"

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PROPOSED COLLEGE DRIVE APARTMENTS

1202 COLLEGE DRIVE
SASKATOON, SK

Sheet Title
SECOND FLOOR PLAN

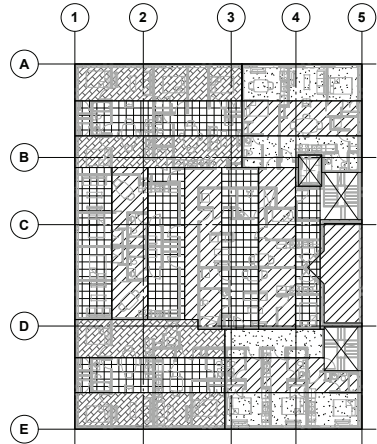
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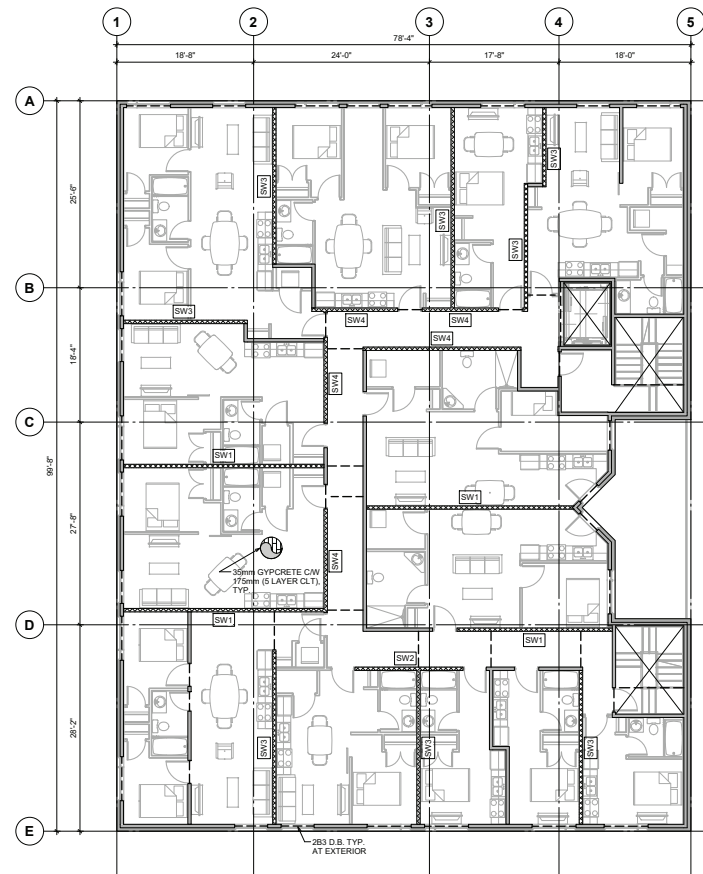


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| WOOD WALL LEGEND | | | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------------|------------------------|---------------------------|-------------------------------|
| DENOTES SHEAR WALL. DENOTES LOAD BEARING WALL. | | | | | |
| WOOD WALL SCHEDULE | | | | | |
| FLOOR | EXTERIOR WALLS (2 x 6) | INTERIOR WALLS (2 x 4) | INTERIOR WALLS (2 x 6) | DOUBLE PARTY WALLS | STAGGERED STUD CORRIDOR WALLS |
| SIXTH TO ROOF | 2 x 6 @ 16" | 2 x 4 @ 16" | 2 x 6 @ 16" | 2 x 4 @ 16" (TWO WALLS) | 2 x 4 @ 8" |
| FIFTH TO SIXTH | 2 x 6 @ 16" | 2 x 4 @ 12" | 2 x 6 @ 16" | 2 x 4 @ 16" (TWO WALLS) | 2 x 4 @ 8" |
| FOURTH TO FIFTH | 2 x 6 @ 16" | 2 x 4 @ 16" | 2 x 6 @ 12" | 2 x 4 @ 10" (TWO WALLS) | 2 x 4 @ 8" |
| THIRD TO FOURTH | 2 x 6 @ 16" | 2 x 4 @ 12" | 2 x 6 @ 10" | 2 x 4 @ 8" (TWO WALLS) | 2 x 4 @ 8" |
| SECOND TO THIRD | 2 x 6 @ 12" | 2 x 4 @ 10" | 2 x 6 @ 16" | 2 x 4 @ 12" (TWO WALLS) * | 2 x 4 @ 8" |
| NOTES: 1. * DENOTES DOUBLE RIM BOARD OR DOUBLE BLOCKING IS REQUIRED IN FLOOR LEVEL ABOVE WALL (I.E. MIN 2" 1 1/4" WIDE LSL RIM BOARD) (BLOCKING). REFER TO GENERAL NOTES AND TYPICAL DETAILS FOR ADDITIONAL REQUIREMENTS. 2. REFER TO "WOOD FRAMING" GENERAL NOTES AND WOOD SHEAR WALL SCHEDULE FOR ADDITIONAL REQUIREMENTS. 3. ALL STUDS TO BE S-P-F NO. 1/NO. 2 GRADE OR BETTER. 4. FOR STAGGERED STUD CORRIDOR WALLS: | | | | | |
| WOOD FRAME SCHEDULE | | | | | |
| WOOD JOIST SCHEDULE | | | | | |
| DIMENSIONAL LUMBER JOISTS | | | | | |
| MARK | SIZE | TYPE | SPACING | | |
| J1 | 2 x 6 | SL | SEE PLAN | | |
| J2 | 2 x 8 | SL | SEE PLAN | | |
| J3 | 2 x 10 | SL | SEE PLAN | | |
| J4 | 2 x 12 | SL | SEE PLAN | | |
| WOOD BEAM SCHEDULE | | | | | |
| MARK | SIZE | TYPE | MARK | SIZE | TYPE |
| B1 | 2 x 6 | SL | B6 | 1 3/4" x XX XX" | LSL 1.55E |
| B2 | 2 x 8 | SL | B7 | 1 3/4" x XX XX" | LVL 2.0E |
| B3 | 2 x 10 | SL | B8 | 3 1/2" x XX XX" | PSL 2.2E |
| B4 | 2 x 12 | SL | B9 | 5 1/4" x XX XX" | PSL 2.2E |
| B5 | 1 3/4" x 9 1/4" | LVL 2.0E | B10 | 7" x XX XX" | PSL 2.2E |
| WOOD POST SCHEDULE | | | | | |
| MARK | SIZE | TYPE | MARK | SIZE | TYPE |
| P1 | 2 x 4 | SL | P5 | | |
| P2 | 2 x 6 | SL | | | |
| P3 | 4 x 4 | SL | | | |
| P4 | 6 x 6 | SL | | | |
| NOTES: 1. FLOOR AND ROOF FRAMING SHOWN ON THIS PLAN IS FOR THE LEVEL ABOVE. DOOR AND WINDOW HEADERS SHOWN ARE OVER THE DOOR AND WINDOW AT THIS LEVEL. 2. SEE PLAN FOR NUMBER OF LAMINATIONS REQUIRED. EXAMPLE: 3B1 = 3 - 2B1 MEMBERS. 3. PROVIDE NUMBER OF JACK STUDS PER GENERAL NOTES UNLESS NOTED OTHERWISE ON PLAN. WHERE ADDITIONAL JACK STUDS ARE REQUIRED THE FOLLOWING CONVENTION WILL BE USED. 4P1.3A DENOTES 4 STUDS TOTAL, 3 OF WHICH ARE JACK STUDS. 4. ABBREVIATIONS: SL ----- SAWN LUMBER LSL ----- LAMINATED STRAND LUMBER PSL ----- PARALLEL STRAND LUMBER LVL ----- LAMINATED VENEER LUMBER 5. I-JOIST HANGERS TO HAVE A MINIMUM CAPACITY OF V1 = 7.5 kN U.N.O. ON PLAN. 6. UNLESS NOTED OTHERWISE, BEAM HANGERS TO BE AS FOLLOWS. ALTERNATE HANGERS TO BE PRE-APPROVED BY RJC AND MUST PROVIDE EQUIVALENT OR GREATER CAPACITY. 1 3/4" WIDE MEMBER - SIMPSON STRONG TIE HU9 V1 = 25 kN (5,685 LBS) 3 1/2" WIDE MEMBER - SIMPSON STRONG TIE HGUS410 V1 = 62 kN (14,015 LBS) 5 1/4" WIDE MEMBER - SIMPSON STRONG TIE HGUS5910 V1 = 65 kN (14,545 LBS) 7" WIDE MEMBER - SIMPSON STRONG TIE HGUS72510 V1 = 70 kN (15,760 LBS) | | | | | |



CLT PANEL LAYOUT
1/16" = 1'-0"



SECOND FLOOR PLAN SHOWING THIRD FLOOR FRAMING OVER
1/16" = 1'-0"

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1202 COLLEGE DRIVE
SASKATOON, SK

Sheet Title
SECOND FLOOR PLAN SHOWING THIRD FLOOR FRAMING OVER

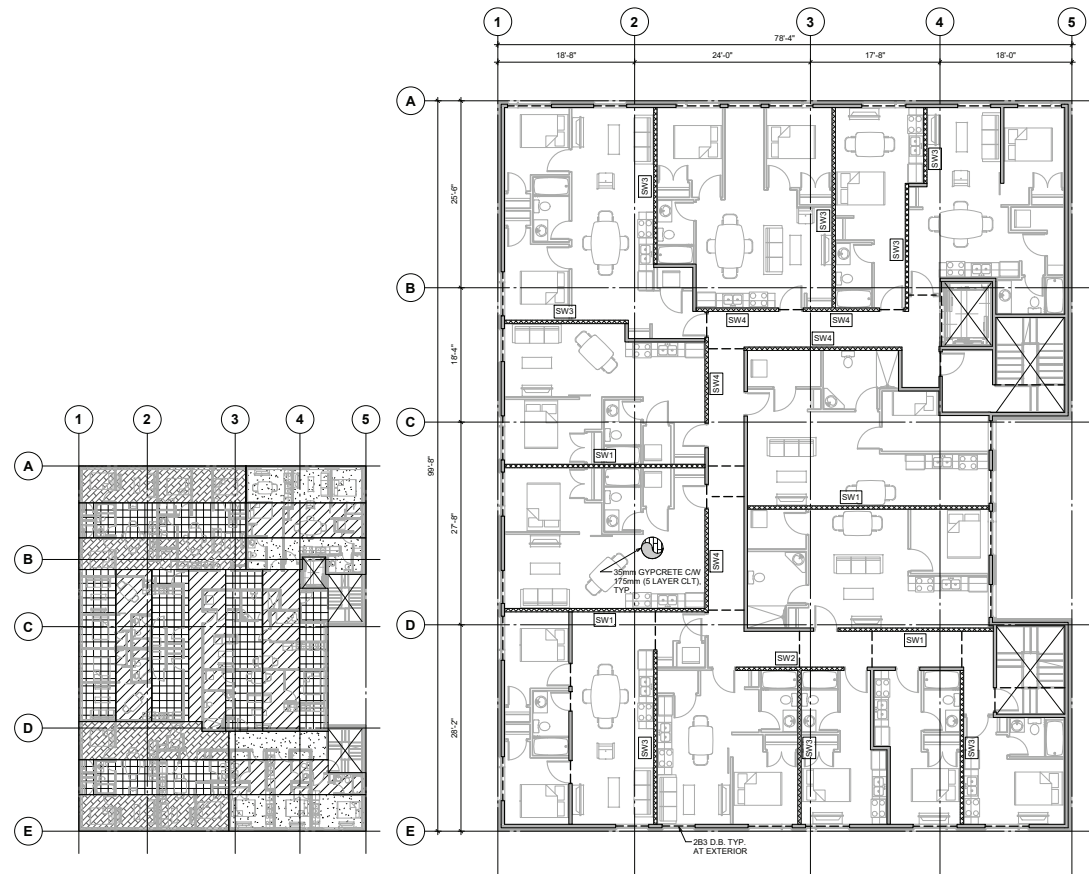
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| WOOD WALL LEGEND | |
|------------------|---------------------------|
| | DENOTES SHEAR WALL |
| | DENOTES LOAD BEARING WALL |



CLT PANEL LAYOUT
1/16" = 1'-0"

THIRD FLOOR PLAN SHOWING FOURTH FLOOR FRAMING OVER
1/16" = 1'-0"

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1202 COLLEGE DRIVE
SASKATOON, SK

Sheet Title
THIRD FLOOR PLAN SHOWING FOURTH FLOOR FRAMING OVER

| Drawn By | Author | Scale | As Indicated |
|--------------------|------------------------|-------|--------------|
| Designed By | Designer | Date | 2024.12.20 |
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| Sheet Number | Revision | | |

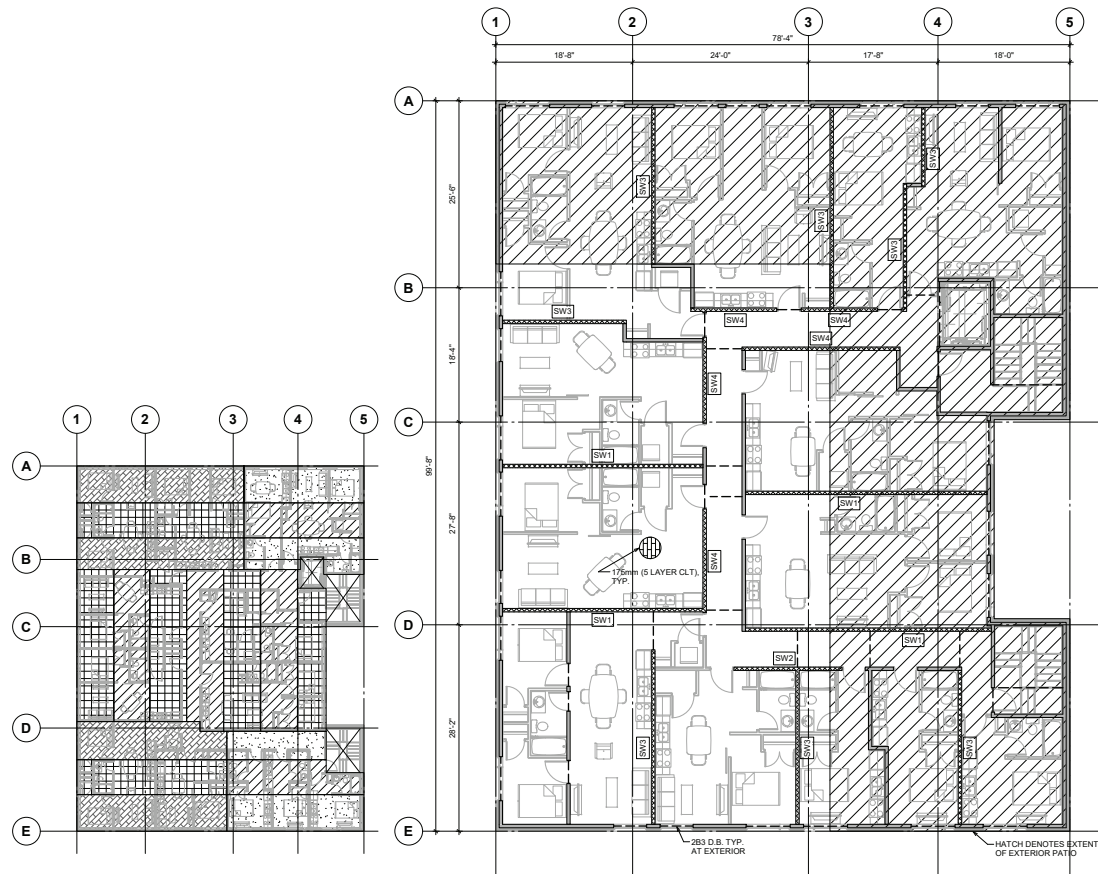
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| WOOD WALL LEGEND | |
|------------------|---------------------------|
| | DENOTES SHEAR WALL |
| | DENOTES LOAD BEARING WALL |



CLT PANEL LAYOUT
1/16" = 1'-0"

FOURTH FLOOR PLAN SHOWING ROOF FRAMING OVER
1/8" = 1'-0"

| No. | Revision | Date | By |
|-----|-----------------------|------------|-----|
| 1 | ISSUED FOR 50% REVIEW | 2024.12.20 | KML |

- Drawing Notes**
- All drawings, plans, models, designs, specifications and other documents prepared by Read Jones Christoffersen Ltd. ("RJC") and used in connection with this project are instruments of service for the sole use of the client and shall remain the property of RJC. No part of this Work is to be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without the prior written permission of RJC. The work "as constructed" may vary from what is shown on these drawings.
 - These drawings are "design drawings" only. They may not be suitable for use as shop drawings. Use of these drawings as base drawings for "shop drawings" is not permitted unless written permission containing specific conditions and limitations is obtained from RJC. The work "as constructed" may vary from what is shown on these drawings.
 - Use of these drawings is limited to that identified in the Issued/Revision column. Do not construct from these drawings unless marked "Issued for Construction" by RJC in the Issued/Revision column, and then only for the parts noted. The drawings shall not be used for "working", "working" or "order" drawings as indicated in the Issued/Revision column. "Working" or "order" drawings are not complete and any prices based on such drawings must allow for this.

NOT FOR CONSTRUCTION

Project Name
PROPOSED COLLEGE DRIVE APARTMENTS

1202 COLLEGE DRIVE
SASKATOON, SK

Sheet Title
FOURTH FLOOR PLAN SHOWING ROOF FRAMING OVER

| Drawn By | Author | Scale | As Indicated |
|--------------------|------------------------|-------|--------------|
| Designed By | Designer | Date | 2024.12.20 |
| RJC Project Number | SAS.138936.0001 | | |
| Sheet Number | Revision | | |
| S 3.6 | | | 1 |

2024-12-20 18:56:26



DEVELOPMENT APPEAL - LOCATION PLAN

ADDRESS: 1202/1204 College Drive

R.8

LOT: 21, 22, 23, 35, 43, & 44

BLOCK: 35

Received
City Clerk's Office
March 24, 2025

PLAN: F5527 & 101356253



Requirement: Section 10.4.4(2)(b) states for multiple unit dwellings or where dwelling units are erected above commercial, office or institutional, an interior side yard shall be provided for the part of the building containing such dwelling units of 1.5 metres, up to a height of 12 metres and 3 metres or that portion of the building in excess of 12 metres in height. No such side yard shall be required when no window, door or other opening is provided in the wall facing the adjacent property.

Proposed: Based on the information submitted dwelling units are provided on the 2nd to 6th floors, with windows and doors along the East wall facing the adjacent property. A 0-metre interior side yard setback is proposed from the East portion of the building containing dwellings, to the East property line.

Deficiency: This results in an East interior side yard deficiency of 1.5 metres for the first 12 metres of the building containing dwelling units, and a 3 metre East side yard for the portion of the building in excess of 12 metres in height. No such side yard shall be required when no window, door or other opening is provided in the wall facing the adjacent property.

Requirement: Section 5.2.6(2)(a) states waste spaces must be not less than 3 metres by 7.5 metres.

Proposed: Based on the information provided the waste space is 3 metres by 6 metres.

Deficiency: This results in a waste space deficiency of 1.5 metres in length.

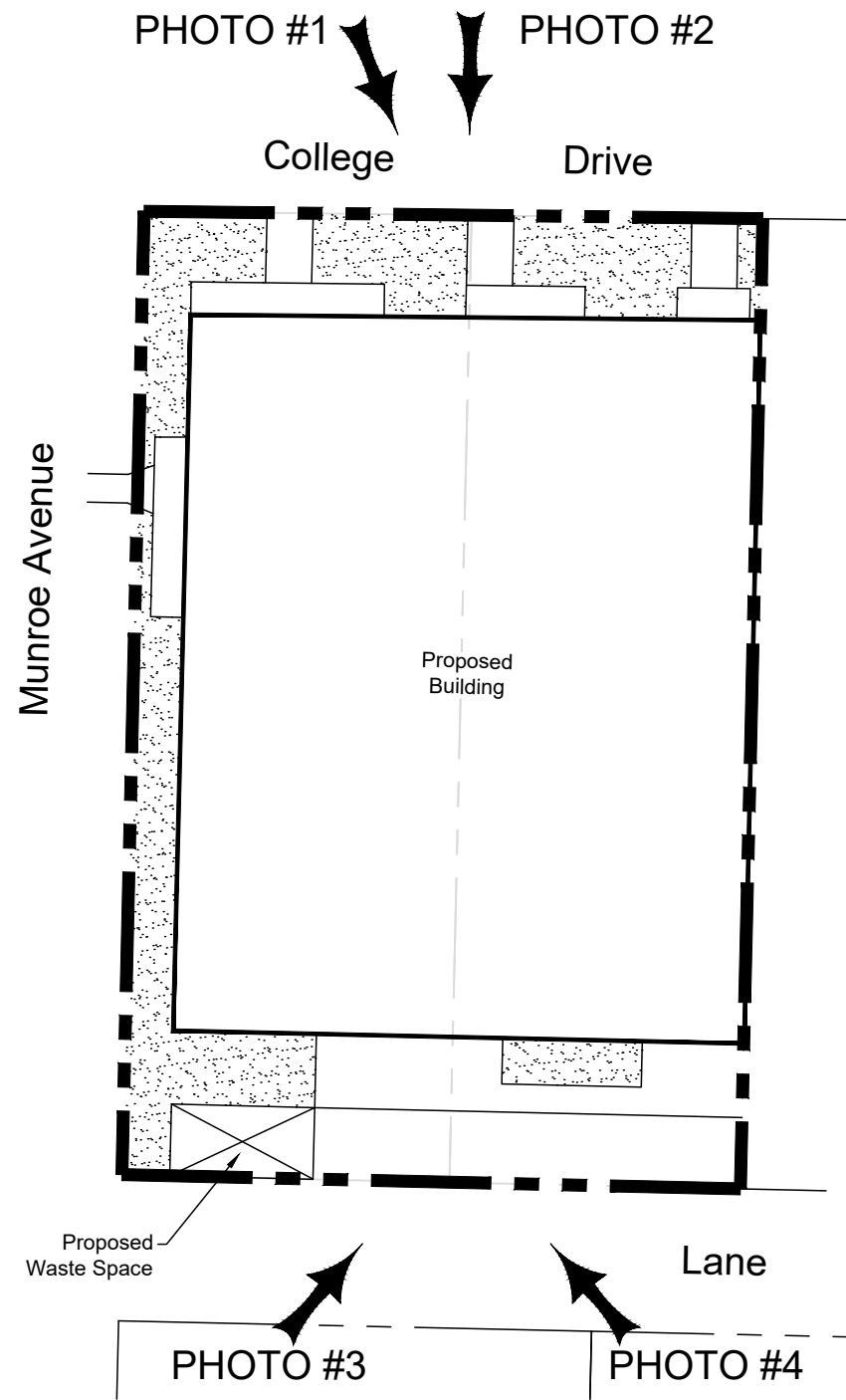


PHOTO 1



PHOTO 2



PHOTO 3



PHOTO 4



2023 AERIAL PHOTOGRAPHY

DEVELOPMENT APPEAL - SITE PLAN

ADDRESS: 1202/1204 College Drive

LOT: 21, 22, 23, 35, 43, & 44

BLOCK: 35

PLAN: F5527 & 101356253



B.1



Development Appeals Board
c/o Office of the City Clerk
222 – 3rd Avenue North
Saskatoon SK S7K 0J5

www.saskatoon.ca
tel (306) 975-3240

March 5, 2025

«RGSTR_OWNER»
«MAILING_ADDR_DELIV_ADDR1»
«MAILING_ADDR_CITY»
«MAILING_ADDR_PROV_CODE»
«MAILING_ADDR_POSTAL_CODE»

NEIGHBOUR NOTIFICATION

Reference: Development Permit Denial – Appeal No. 9-2025
Site: 1202/1204 College Drive
Proposal: Shopping Centre with Multiple Unit Dwelling (65 dwelling units)

The above-noted appeal has been filed by **James Zimmer, James D Zimmer Architect on behalf of 101088347 Saskatchewan Ltd.** under Subsection 219(1)(b) of *The Planning and Development Act, 2007*. This letter has been sent to you as the registered owner or property manager of a property that has been deemed as neighbouring the subject site. The Board is required by law to send a notice in order to give the neighbouring property owners opportunity to submit comments in writing regarding the appeal.

The property is zoned **CS1** under *Zoning Bylaw No. 9900*, and the development permit was denied due to the following deficiencies:

- Requirement:** Section 10.4.4(2)(b) states for multiple unit dwellings or where dwelling units are erected above commercial, office or institutional, an interior side yard shall be provided for the part of the building containing such dwelling units of 1.5 metres, up to a height of 12 metres and 3 metres or that portion of the building in excess of 12 metres in height. No such side yard shall be required when no window, door or other opening is provided in the wall facing the adjacent property.

Proposed: Based on the information submitted dwelling units are provided on the 2nd to 6th floors, with windows and doors along the East wall facing the adjacent property. A 0-metre interior side yard setback is proposed from the East portion of the building containing dwellings, to the East property line.

Deficiency: This results in an East interior side yard deficiency of 1.5 metres for the first 12 metres of the building containing dwelling units, and a 3 metre East side yard for the portion of the building in excess of 12 metres in height that contain dwelling units.
- Requirement:** Section 5.2.6(2)(a) states waste spaces must be not less than 3 metres by 7.5 metres.

Proposed: Based on the information provided the waste space is 3 metres by 6 metres.

Deficiency: This results in a waste space deficiency of 1.5 metres in length.

Development Appeals Board
Appeal 2025 - 9

The Development Appeals Board will hear the appeal: Tuesday, April 1, 2025, at 4:00 p.m. in Committee Room E. Appeal hearings are open to the public.

For additional information please refer to the website at www.saskatoon.ca (select City Hall, City Council, Boards & Committees, Agendas, Minutes & Video, Development Appeals Board) or contact the Secretary at (306) 975-3240.

If you wish to provide written comments regarding this matter you are required to submit a letter including your name and full address to the Secretary, Development Appeals Board, City Clerk's Office, City Hall, Saskatoon, Saskatchewan, S7K 0J5 or email development.appeals.board@saskatoon.ca.

Submissions providing comments and/or requests to speak must be received in the City Clerk's Office by noon the day of the hearing. Please note that your letter and written comments are a public document and will be provided to the parties of the appeal in advance of the hearing.

Debby Sackmann, Secretary
Development Appeals Board

March 6, 2025

City of Saskatoon Development Appeal Application- page 2

THIS PAGE WILL FORM PART OF THE PUBLIC RECORD FOR THE APPEAL

Applicant Name: Terry Deneiko _____

Registered Property Owner(s):
(if different from above): _____

Location of Subject Property _____

Legal Description

Lot (s) _____ Block _____ Plan No. _____

Civic Address: 633 Guelph Cres. _____

Present Status of Building or Structure Under Appeal:

- Construction not yet begun
- Under Construction
- Completed

Type of Construction:

- Residential
- Commercial
- Industrial
- Other (specify) Residential _____

Description of Development Appeal: (example: side yard deficiency, parking deficiency, etc.)

I would like to build a new detached garage and the size I want to build exceeds the max that the bylaw states. I will meet all the other requirements needed to build it.

Reason for Development Appeal: (as per *The Planning and Development Act, 2007*, applicants have 5 days prior to the appeal hearing date to submit drawings and written materials)

I can't see the little amount that I am asking for should make any difference.

BOTH SIDES OF THIS FORM MUST BE COMPLETED

March 6, 2025

R.1**Appeal 10-2025**

Terry Deneiko

Saskatoon, SK

SENT VIA EMAIL

Re: Development Permit Denial: ACC-2025-01224
Proposal: Accessory Building (Detached Garage)
Site Address: 633 Gueff Cres
Zoning District: R2 – Low Density Residential District 2

The Planning and Development Division has reviewed your Building and Development Permit application for an Accessory Building. After review, the following deficiency has been noted with the City of Saskatoon's Zoning Bylaw 9990:

1. Requirement: Section 5.1.2(4)(c) states:
“(4) In calculating the total floor area of detached accessory buildings, the following shall be considered:

(c) it shall not have a total floor area greater than the floor area of the principal building exclusive of an attached garage or carport or 54 square metres, whichever is greater. In no circumstance shall a detached building accessory to a OUD have a total floor area greater than 87 square metres.”

Proposed: The proposed garage has an area of 93.6 square meters.

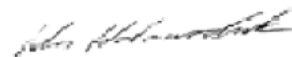
Deficiency: This proposed garage exceeds the maximum allowable floor area of 87 square meters, by 6.6 square meters (or 71 square feet).

As consequence, the Planning and Development Division cannot approve your plans for a Development Permit.

I understand you wish to appeal this decision to the Development Appeal Board. To proceed with an appeal request please fill out the online Development Appeal application form available through the following link: <https://capps.saskatoon.ca/development-appeals/> within 30 days of the date of this letter. Note there is an application fee of \$50 for this process. Attached to this email is general information about the Development Appeal process, as well as an extract from the Planning and Development Act 2007.

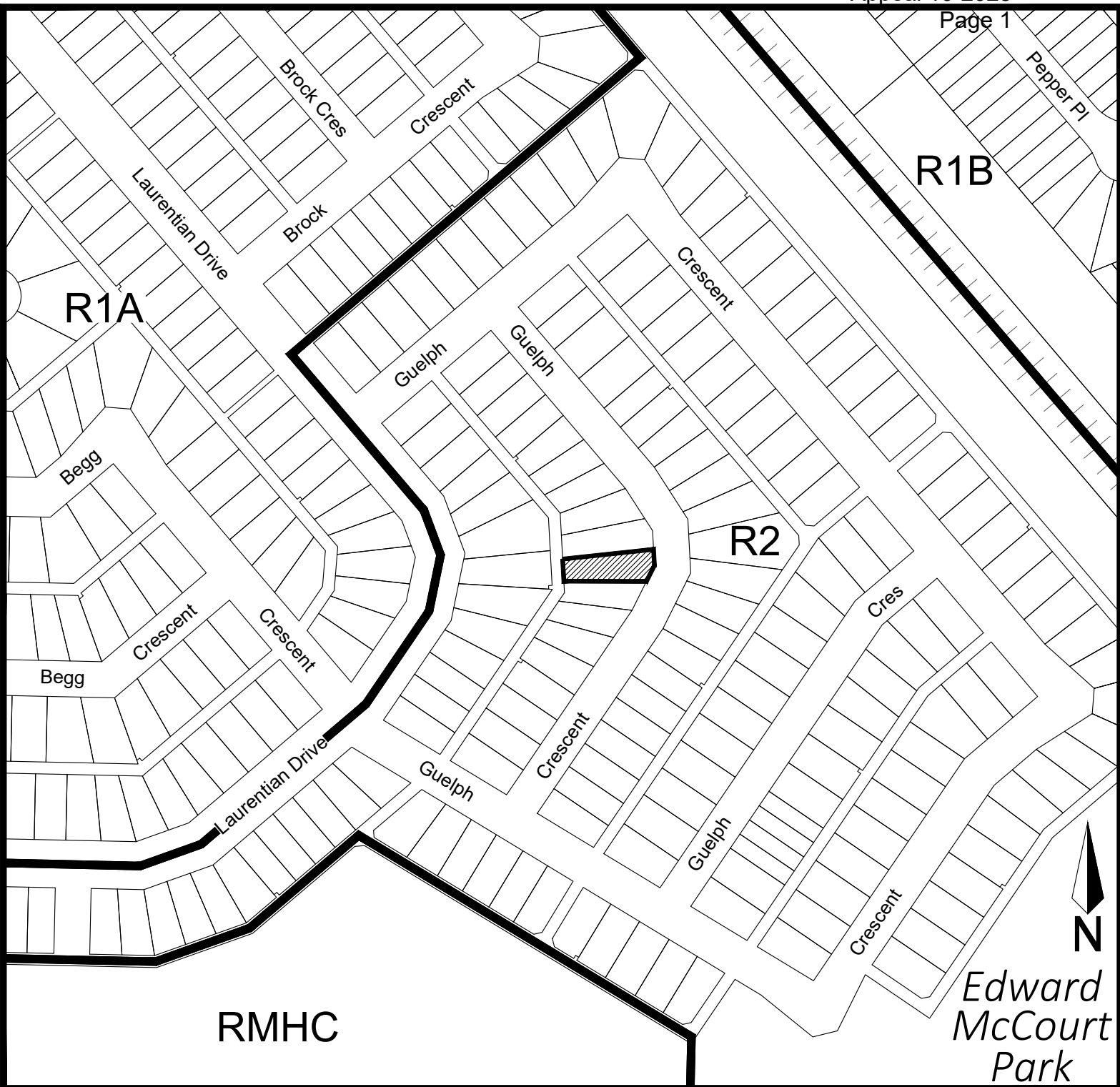
If you have any questions about this information, please let me know.

Sincerely,



Wes Holowachuk
Planning and Development Division (306-975-2659)
vanessa.champagne@saskatoon.ca

cc: Brent McAdam, Planning and Development
Development Appeal Board Secretary, City Clerks



DEVELOPMENT APPEAL - LOCATION PLAN

ADDRESS: 633 Guelph Crescent

R.2

LOT: 22

BLOCK: 760

PLAN: 74S15354

Received
City Clerk's Office
March 24, 2025

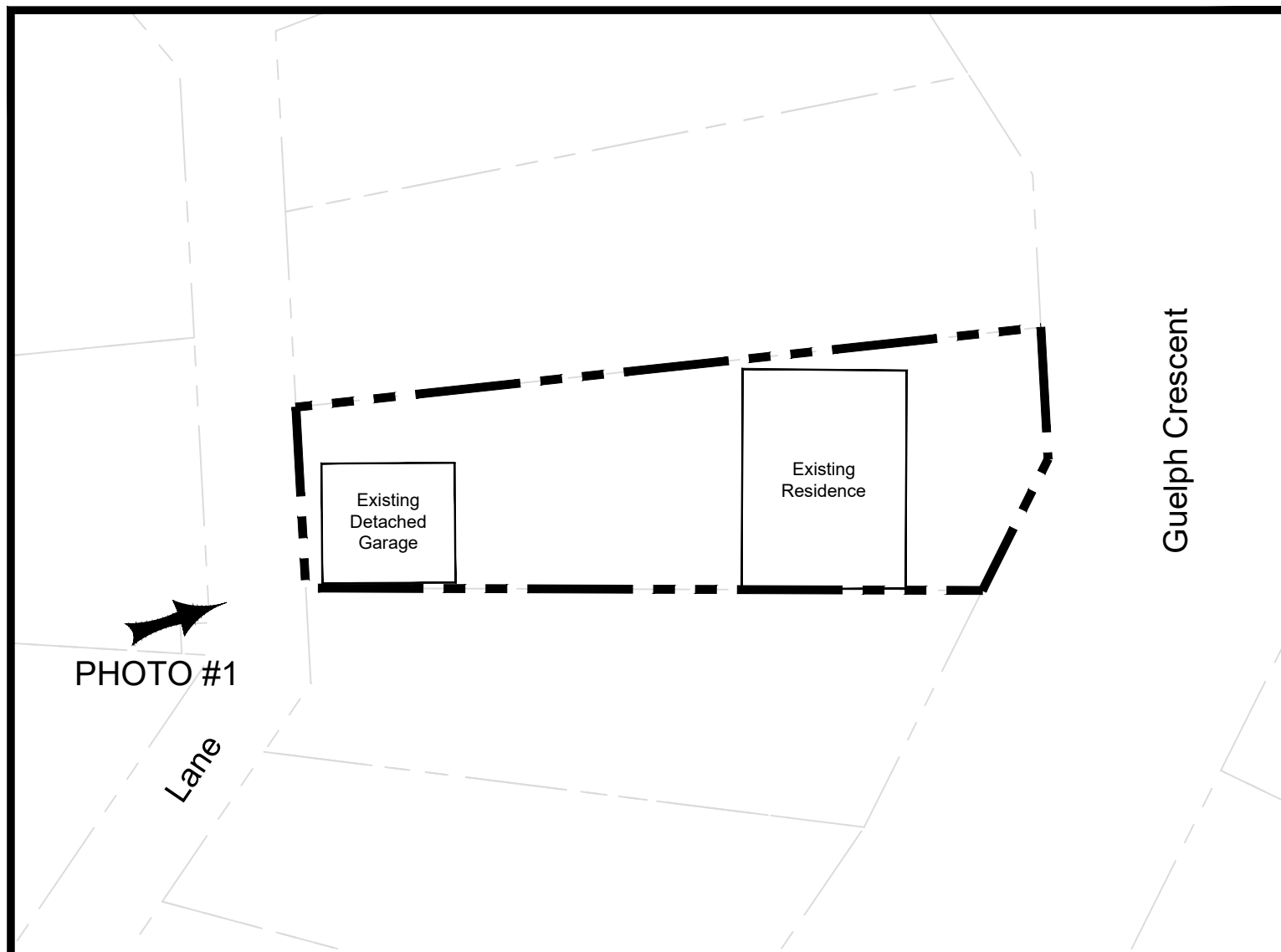


PHOTO 1

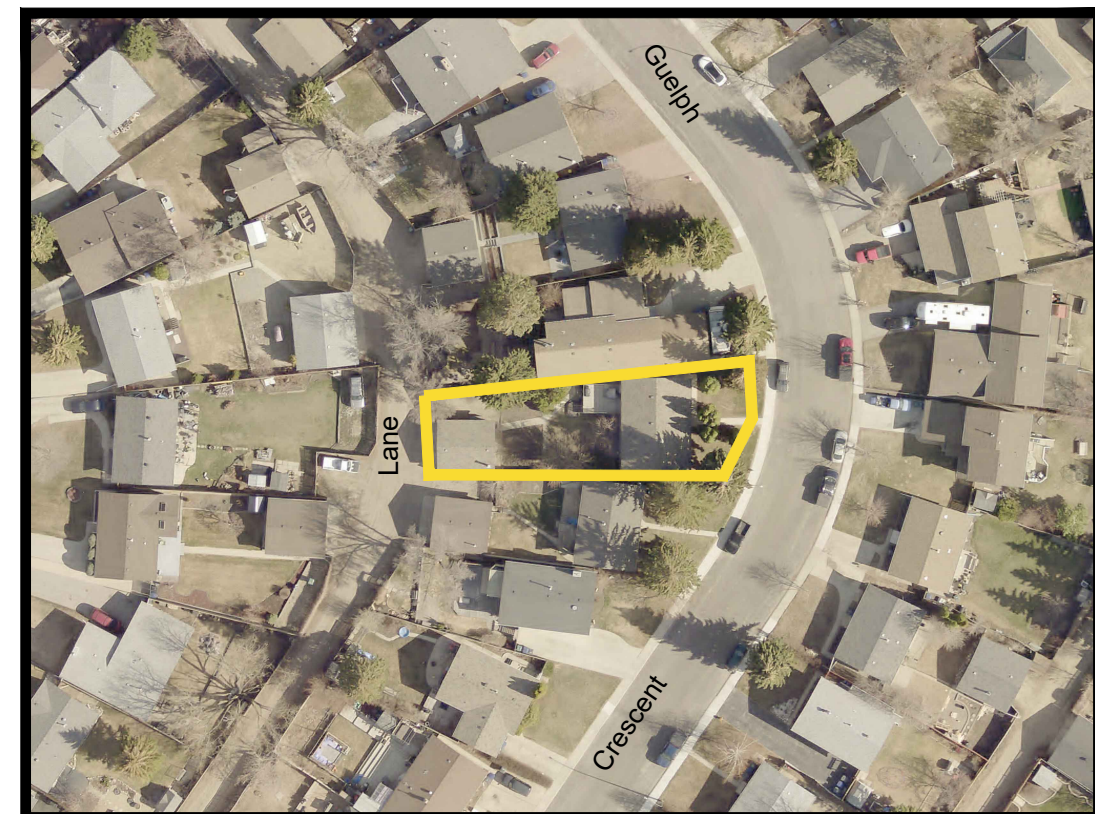
Requirement: Section 5.1.2(4)(c) states:

"(4) In calculating the total floor area of detached accessory buildings, the following shall be considered:

(c) it shall not have a total floor area greater than the floor area of the principal building exclusive of an attached garage or carport or 54 square metres, whichever is greater. In no circumstance shall a detached building accessory to a OUD have a total floor area greater than 87 square metres."

Proposed: The proposed garage has an area of 93.6 square metres.

Deficiency: The proposed garage exceeds the maximum allowable floor area of 87 square metres, by 6.6 square metres (or 71 square feet).



2023 AERIAL PHOTOGRAPHY

DEVELOPMENT APPEAL - SITE PLAN

ADDRESS: 633 Guelph Crescent

LOT: 22

BLOCK: 760

PLAN: 74S15354



B.1



Development Appeals Board
c/o Office of the City Clerk
222 – 3rd Avenue North
Saskatoon SK S7K 0J5

www.saskatoon.ca
tel (306) 975-3240

March 12, 2025

«RGSTR_OWNER»
«MAILING_ADDR_DELIV_ADDR1»
«MAILING_ADDR_CITY»
«MAILING_ADDR_PROV_CODE»
«MAILING_ADDR_POSTAL_CODE»

NEIGHBOUR NOTIFICATION

Reference: Development Permit Denial – Appeal No. 10-2025
Site: 633 Guelph Crescent
Proposal: Accessory Building (Detached Garage)

The above-noted appeal has been filed by **Terry Deneiko** under Subsection 219(1)(b) of *The Planning and Development Act, 2007*. This letter has been sent to you as the registered owner or property manager of a property that has been deemed as neighbouring the subject site. The Board is required by law to send a Notice in order to give the neighbouring property owners opportunity to submit comments in writing regarding the appeal.

The property is zoned **R2** under *Zoning Bylaw No. 9900*, and the development permit was denied due to the following deficiency:

Requirement: Requirement: Section 5.1.2(4)(c) states:
“(4) In calculating the total floor area of detached accessory buildings, the following shall be considered:

(c) it shall not have a total floor area greater than the floor area of the principal building exclusive of an attached garage or carport or 54 square metres, whichever is greater. In no circumstance shall a detached building accessory to an OUD (one-unit dwelling) have a total floor area greater than 87 square metres.

Proposed: Based on the information provided the proposed garage has an area of 93.6 square meters.

Deficiency: This results in the proposed garage exceeding the maximum allowable floor area of 87 square meters, by 6.6 square meters (or 71 square feet).

The Development Appeals Board will hear the appeal: Tuesday, April 1, 2025, at 4:00 p.m. in Committee Room E. Appeal hearings are open to the public.

For additional information please refer to the website at www.saskatoon.ca (select City Hall, City Council, Boards & Committees, Agendas, Minutes & Video, Development Appeals Board) or contact the Secretary at (306) 975-3240.

If you wish to provide written comments regarding this matter you are required to submit a letter including your name and full address to the Secretary, Development Appeals Board, City Clerk's Office, City Hall, Saskatoon, Saskatchewan, S7K 0J5 or email development.appeals.board@saskatoon.ca. **Submissions providing comments and/or requests to speak must be received in the City Clerk's Office by noon the day of the hearing.** Please note that your letter and written comments are a public document and will be provided to the parties of the appeal in advance of the hearing.

Debby Sackmann, Secretary
Development Appeals Board

Received
City Clerk's Office
March 13, 2025

B.2

Appeal 10-2025

From: [Dave & Irene Blum](#)
To: [Web E-mail - Development Appeals Board](#)
Subject: Appeal No. 10-2025
Date: Thursday, March 13, 2025 4:24:31 PM

[You don't often get email [REDACTED]. Learn why this is important at <https://aka.ms/LearnAboutSenderIdentification>]

[Warning: This email originated outside our email system. Do not click links or open attachments unless you recognize the sender and know the content is safe.]

I am sending this email in regards to the above appeal. I live at [REDACTED] Guelph Crescent and I just wanted to let you know that I don't have any issues with the permit to allow a larger floor plan for the garage for Terry Deneiko. If you require anything further, please don't hesitate to contact me.
Irene Blum