

# ALSASK RADIO OBSERVATORY

RENOVATIONS & ADDITION ALSASK, SK



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REVIEW SET 4  
 MONDAY  
 2016-01-02

CLIENT:

ALSASK  
 ASTRO

PROJECT:

RADIO OBSERVATORY  
 RENOVATIONS &  
 ADDITION  
 ALSASK, SK

DRAWING:

SITE PLAN  
 LIST OF DRAWINGS  
 BUILDING CODE REVIEW

PROJECT No:  
 711-15

SCALE:  
 AS NOTED

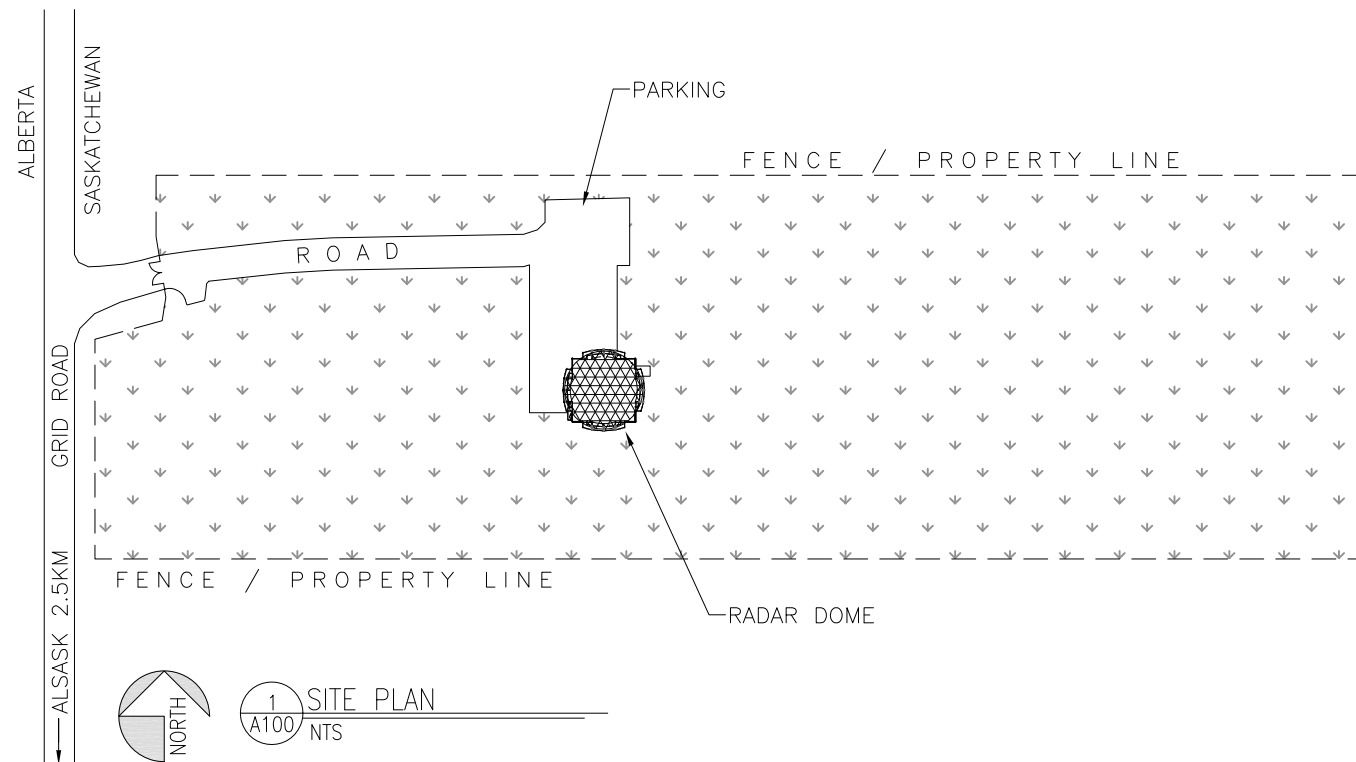
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 2016-01-02

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SHEET No:

PLOT No: 0

A100

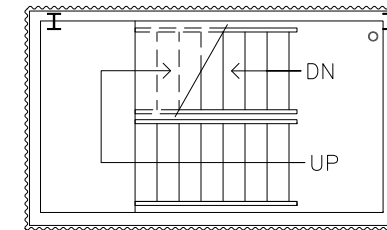
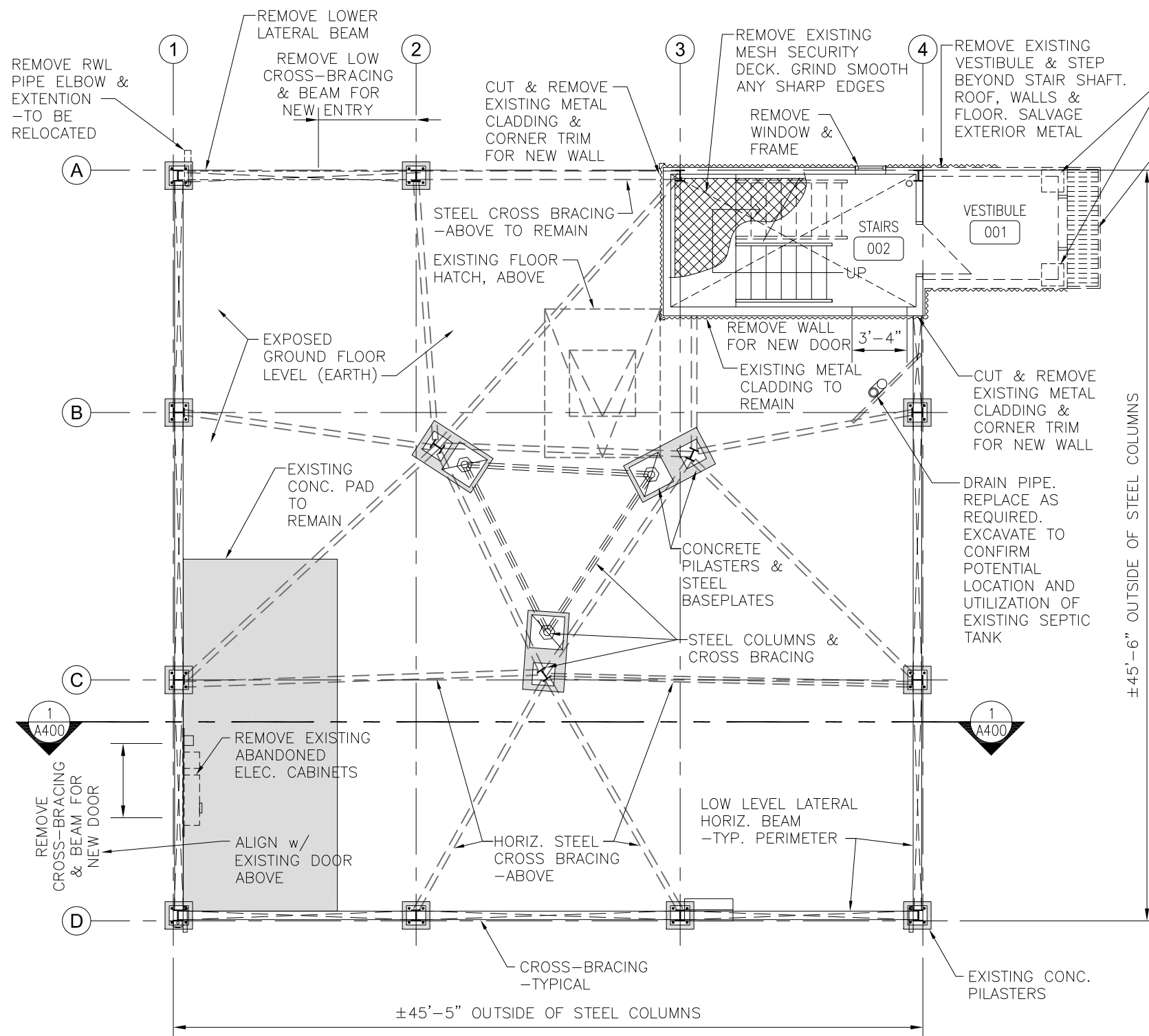


## LIST OF DRAWINGS

- A100 SITE PLAN
- A200 EXISTING/DEMO GROUND FLOOR PLAN
- A201 EXISTING/DEMO SECOND FLOOR PLAN
- A202 EXISTING/DEMO THIRD FLOOR PLAN
- A203 EXISTING/DEMO ROOF/DOME LEVEL PLAN
- A204 PROPOSED FOUNDATION PLAN
- A205 PROPOSED GROUND FLOOR PLAN
- A206 PROPOSED SECOND FLOOR PLAN - LIVING
- A207 PROPOSED THIRD FLOOR PLAN - OFFICES
- A208 PROPOSED ROOF/DOME LEVEL PLAN
- A300 EXISTING SOUTH EXTERIOR ELEVATION
- A301 PROPOSED SOUTH EXTERIOR ELEVATION
- A400 BUILDING SECTION
- A500 WALL SECTIONS
- A600 DETAILS

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2 EXISTING LANDING PLAN  
A200 1/8" = 1'-0" BETWEEN GROUND & SECOND FLOOR

**GENERAL NOTES**

1. ALL EXISTING DIMS. ARE ESTIMATES. CONTRACTOR TO CONFIRM ON SITE.
2. STRUCTURAL PILES, GRADE BEAMS, COLUMNS AND BEAMS TO BE REVIEWED AND STAMPED BY A STRUCTURAL ENGINEER.

**DEMOLITION NOTES**

1. REMEDIATE ALL ANIMAL WASTE PRIOR TO COMMENCING WORK.
2. CONTRACTOR TO UTILIZE ALL APPROPRIATE SAFETY, RESPIRATORY, & FALL ARREST EQUIPMENT ETC.
3. HAVE DEMO MATERIALS INCLUDING, BUT NOT LIMITED TO FLOORING AND PIPE INSULATION TESTED FOR ASBESTOS. REMOVE ACCORDING TO LOCAL BYLAWS.
4. REMOVE ENTIRE WOOD FRAME ENTRY VESTIBULE, FLOOR AND ROOF, UP TO FOOTPRINT OF STEEL TOWER STRUCTURE.
5. SALVAGE ALL DEMO'D EXISTING METAL CLADDING. REUSED AS WHERE APPROPRIATE
6. REMOVE ALL EXISTING LIGHT FIXTURES, ELEC. OUTLETS, WIRING AND PANELS.
7. RETAIN EXISTING ELECTRICAL BOXES AND CONDUITS WHERE POSSIBLE
8. OWNER HAS THE FIRST RIGHT OF REFUSAL OF ALL REMOVED MATERIALS & FIXTURES.

**ABBREVIATIONS**

- O/S    OUTSIDE  
 RWL    RAIN WATER LEADER  
 T/O    TOP OF  
 UNO    UNLESS NOTED OTHERWISE

1 EXISTING/DEMO GROUND FLOOR PLAN  
A200 1/8" = 1'-0"

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DRAWING:

**EXISTING / DEMO  
GROUND FLOOR PLAN**

PROJECT No:  
711-15

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**A200**



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ADDITION  
ALSASK, SK

DRAWING:

EXISTING / DEMO  
SECOND FLOOR PLAN

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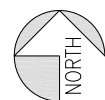
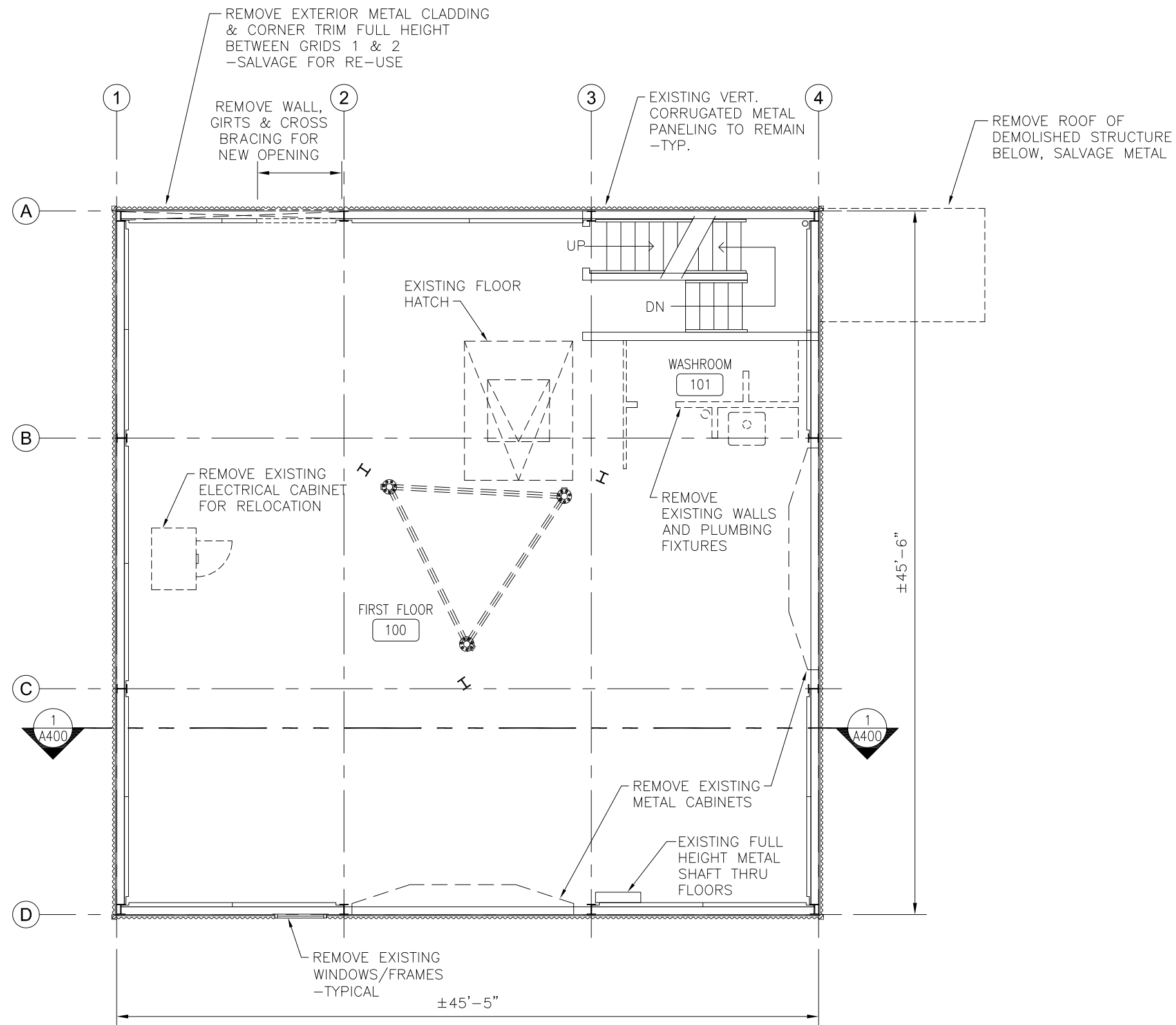
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## A201



1  
A201  
EXISTING SECOND FLOOR PLAN  
1/8" = 1'-0"



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RADIO OBSERVATORY  
RENOVATIONS &  
ADDITION  
ALSASK, SK

DRAWING:

EXISTING / DEMO  
THIRD FLOOR PLAN

PROJECT No:  
711-15

SCALE:  
AS NOTED

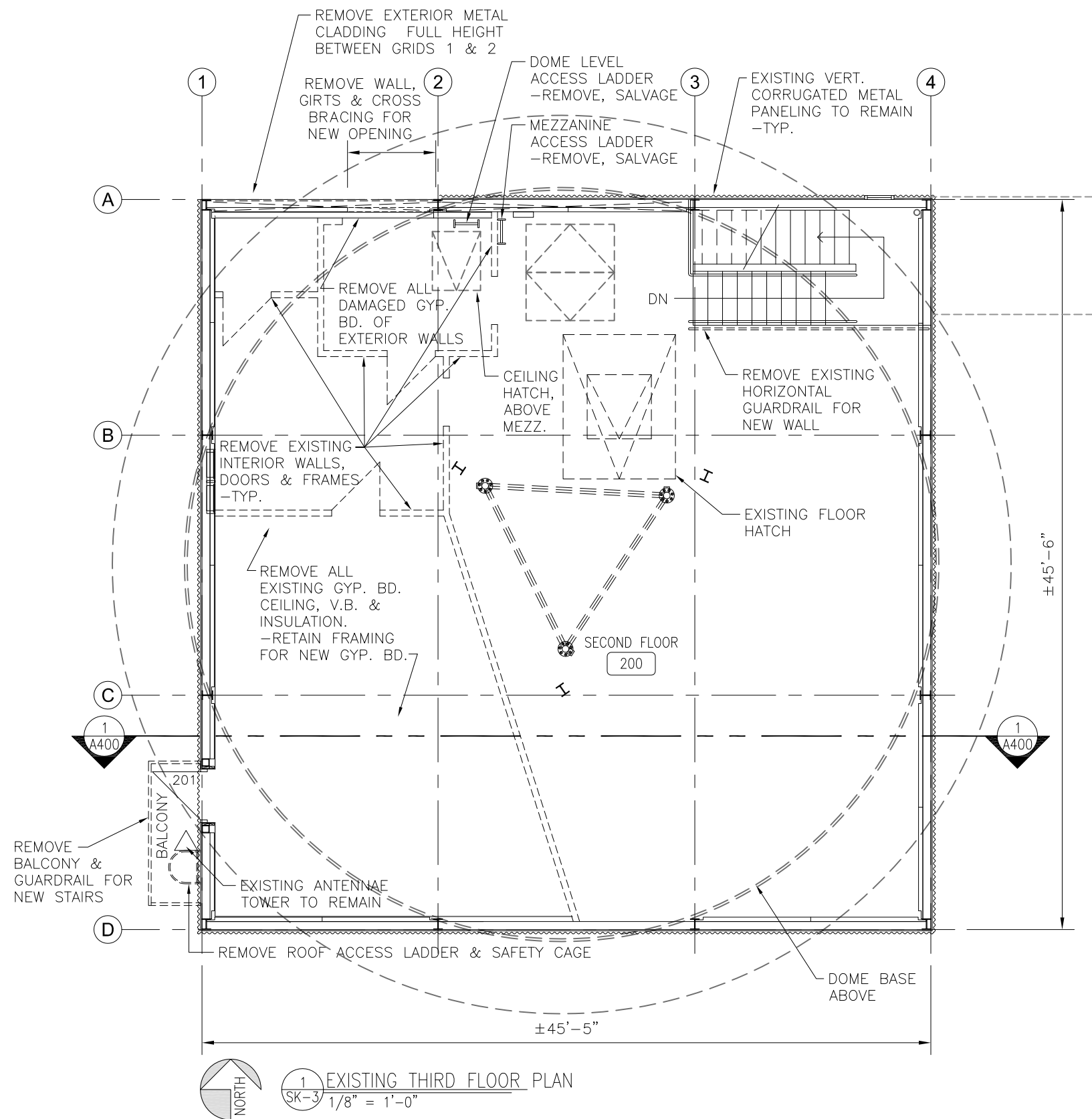
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A202



1 EXISTING THIRD FLOOR PLAN  
SK-3  
1/8" = 1'-0"



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RENOVATIONS &  
ADDITION  
ALSASK, SK

DRAWING:

EXISTING / DEMO  
ROOF / DOME LEVEL PLAN

PROJECT No:  
711-15

SCALE:  
AS NOTED

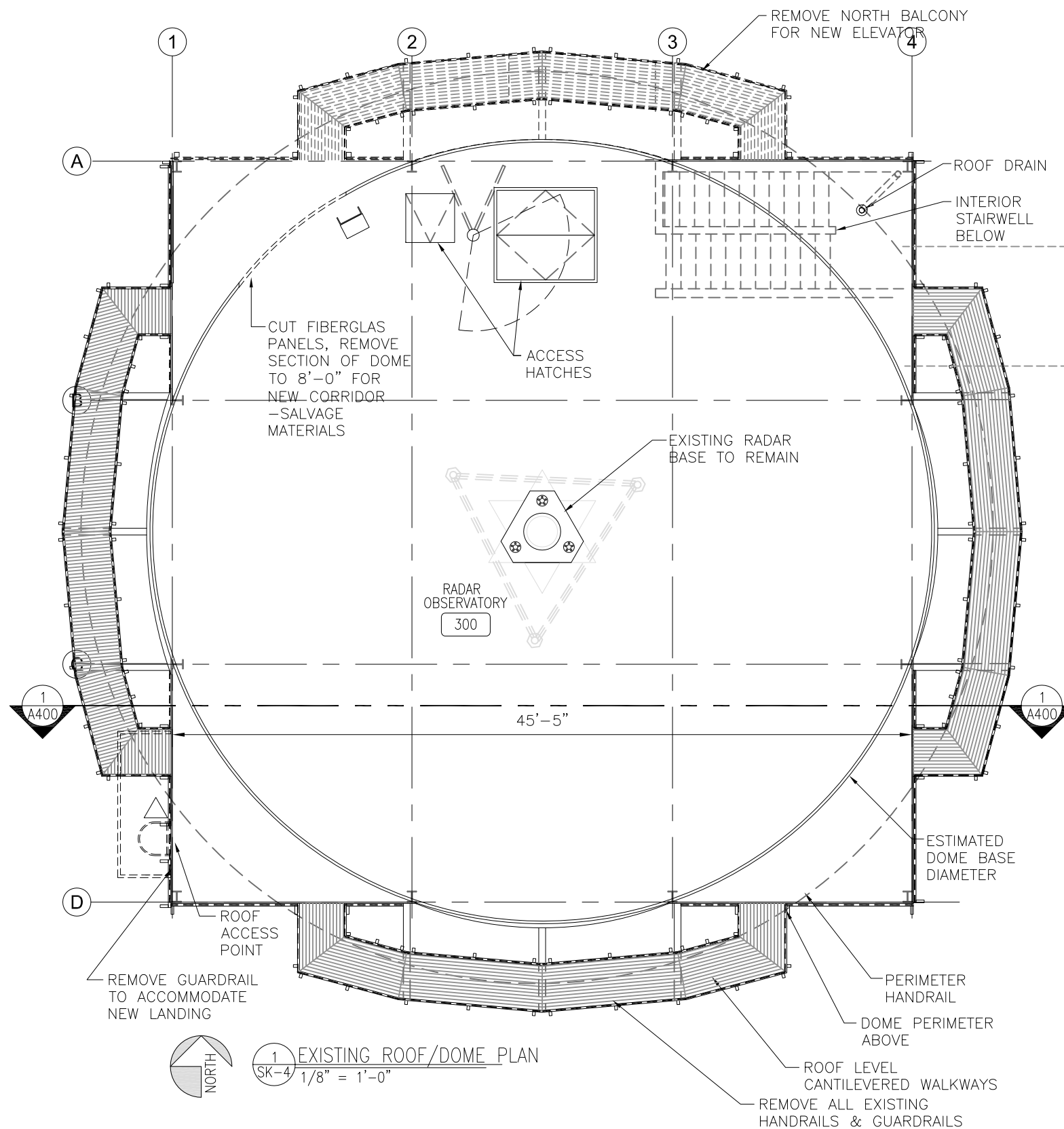
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PROJECT:  
**RADIO OBSERVATORY  
RENOVATIONS &  
ADDITION  
ALSASK, SK**

DRAWING:  
**FOUNDATION PLAN  
- PROPOSED**

PROJECT No: 711-15	SCALE: AS NOTED
DATE: 2016-01-02	DRAWN BY: WH

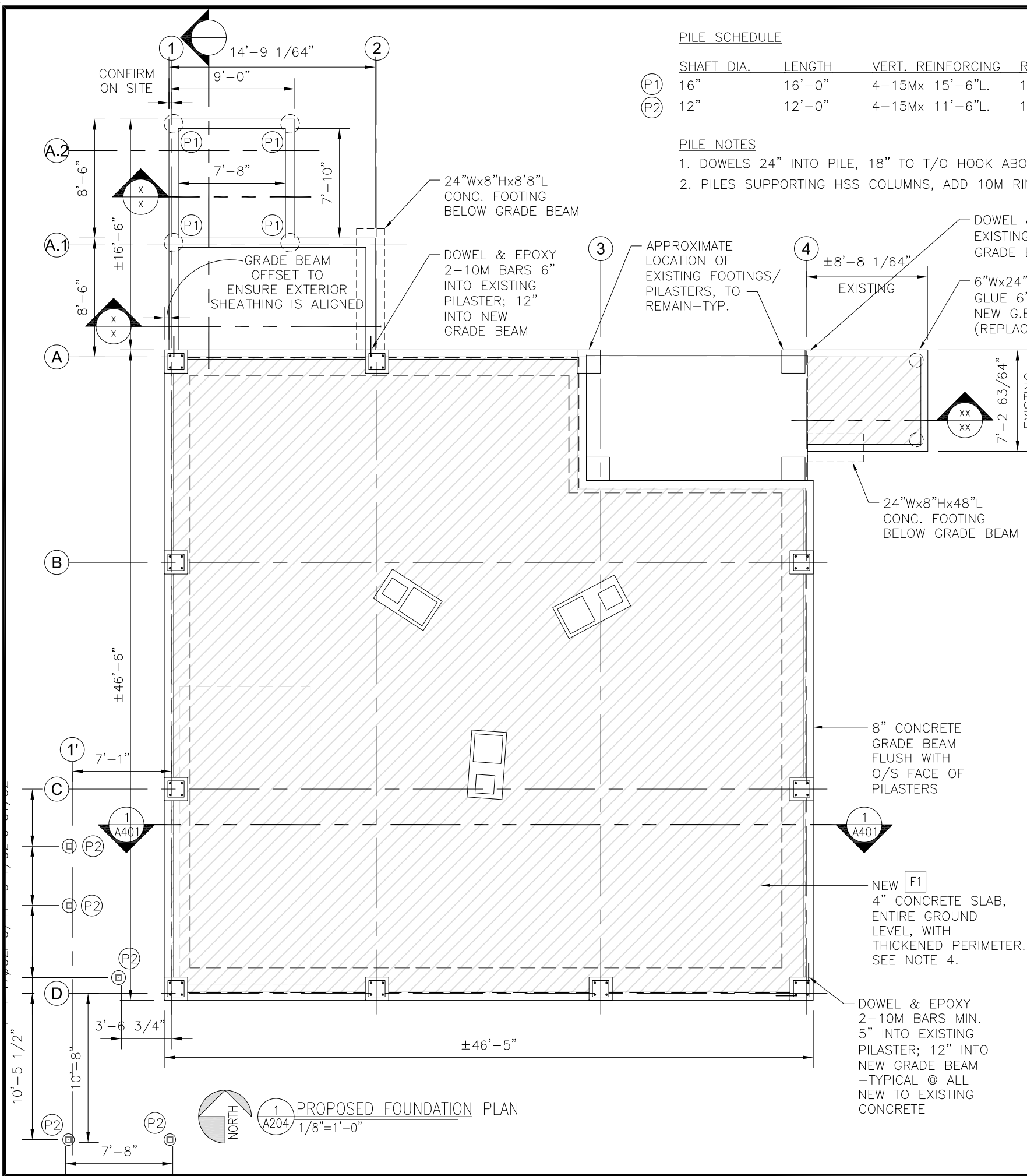
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**A204**

PILE SCHEDULE

	SHAFT DIA.	LENGTH	VERT. REINFORCING	REINFORCING RINGS	DOWELS	COUNT
(P1)	16"	16'-0"	4-15Mx 15'-6"L.	10M @12" O.C. UPPER 10'; 16" O.C. REMAINDER	2-15M	4
(P2)	12"	12'-0"	4-15Mx 11'-6"L.	10M @12" O.C. UPPER 10'; 16" O.C. REMAINDER	NONE	5

PILE NOTES

1. DOWELS 24" INTO PILE, 18" TO T/O HOOK ABOVE PILE; 90 DEGREE HOOK ON EACH DOWEL
2. PILES SUPPORTING HSS COLUMNS, ADD 10M RING 3" BELOW TOP RING



FOUNDATION NOTES

1. GRIDLINES ARE TO FACE OR CENTER OF STEEL ON EXISTING CONSTR. & TO FACE OF GRADE BEAM ON NEW CONSTR.
2. BACKFILL AREA OF FLOOR SLAB WITH GRAVEL TO ACHIEVE APPROPRIATE SLAB DEPTH
3. CONC. GRADE BEAMS TO BE FLUSH WITH EXISTING PILASTERS.
4. POUR FLOOR SLAB TO ELEVATION OF HIGHEST EXISTING CONCRETE PILASTER.

CONSTRUCTION NOTES

1. DIMENSIONS ARE TO FACING OF FRAMING U.N.O.
2. TORQUE ALL EXISTING EXPOSED STRUCTURAL STEEL NUTS.
3. PAINT ALL EXISTING RUSTED METAL WITH RUST PAINT.
4. INSTALL INSULATION & SEALED VAPOUR BARRIER TO ALL EXTERIOR WALLS.
5. REPLACE, INSULATE & SEAL ALL EXISTING WINDOWS.
6. REMOVE AND REPLACE ALL MECHANICAL, PLUMBING AND ELECTRICAL.
7. INSTALL FOAM GASKET AT U/S OF WALL FRAMING ON CONCRETE.
8. INSTALL OUTSIDE FACE OF EXTERIOR 2x6 WALL STUDS TO BE FLUSH WITH OUTSIDE FACE/EDGE OF STRUCTURE.
9. INSTALL INSIDE FACE OF EXTERIOR 2x6 WALL STUDS TO BE 1/4" INSIDE ALL OTHER STRUCTURE OF 2nd & 3rd FLOOR.
10. ELECTRICAL: INSTALL ALL NEW PANELS, WIRING, OUTLETS, LED LIGHT FIXTURES TO MEET LOCAL ELECTRICAL CODES.

FLOORS

- F1 SLAB ON GRADE
- 4" MINIMUM CONC. SLAB r/w: 10M BARS @ 12"
  - o/c EACH WAY AT SLAB MID DEPTH
  - 6mil MIN. POLY VAPOR BARRIER
  - 6" COMPACTED GRAVEL FILL
  - COMPACTED SOIL
  - EXISTING COMPACTED SOIL/EXISTING CONCRETE

1 PROPOSED FOUNDATION PLAN  
A204 1/8"=1'-0"

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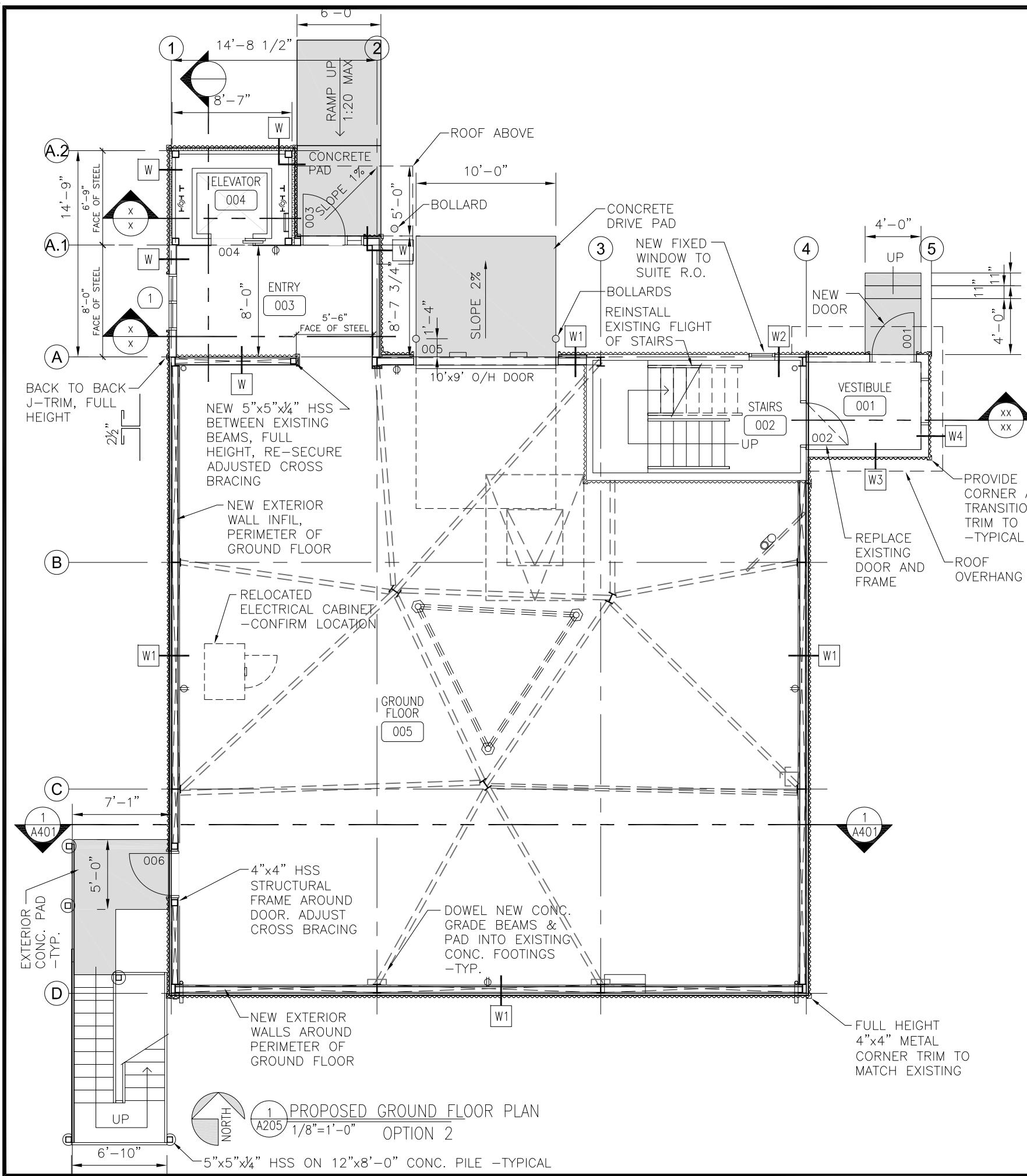
PROJECT:  
  
**RADIO OBSERVATORY  
RENOVATIONS &  
ADDITION  
ALSASK, SK**

DRAWING:  
  
**GROUND FLOOR PLAN  
-PROPOSED  
SERVICE & UTILITY NOTES  
WALL ASSEMBLIES**

PROJECT No: 711-15	SCALE: AS NOTED
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# A205



**SERVICES & UTILITIES**

**POWER**

- PROVIDE APPROPRIATE SPLITTER AND BREAKERS TO SERVICE FACILITY
- PROVIDE APPROPRIATE POWER FOR RADIO/RADAR EQUIPMENT. CONFIRM WITH OWNER.
- 220V SERVICE REQUIRED FOR STOVE AND DRYER

**WATER**

- CONFIRM PREVIOUS SOURCE OF WATER AND POTENTIAL FOR RECONNECTION.
- ALTERNATE: DRILL APPROPRIATE WATER WELL
- HAVE WATER WELL WATER TESTED BY SASK WATER

**NATURAL GAS / PROPANE**

- GAS FURNACE AND HOT WATER TANK FUEL

**SEWER**

- CONFIRM LOCATION AND INTEGRITY OF ANY EXISTING UNDERGROUND SEPTIC TANK, AND LOCATION OF PUMP OUT.
- REPLACE WITH TANK, SIZED TO SUIT, AS REQUIRED COMPLETE WITH ONSITE EFFLUENT PUMPOUT/DISPOSAL SYSTEM/DRAINFIELD

**WALL ASSEMBLIES**

- W1 WALL TYPE 1 - EXTERIOR WALL**
- VERTICAL CORRUGATED METAL PANEL TO MATCH EXISTING
  - AIR BARRIER/SHEATHING WRAP
  - 1/2" OSB/PLYWOOD SHEATHING w/ H-CLIPS @ 24" O.C.
  - HORIZ. METAL Z-GIRTS @ 24" O.C.
  - 2x6 WOOD STUDS SECURED TO BEAMS & X-BRACING
- INTERIOR**
- 2x6 WOOD STUDS @ 16" O.C.
  - MIN. R20 BATT INSULATION
  - 6mil POLY VAPOUR BARRIER
  - 1/2" PLYWOOD SHEATHING (PAINTED) TO 8'-0" AFF (1/2" GYPSUM BOARD ABOVE)
- W2 WALL TYPE 2 - EXTERIOR WALL**
- VERTICAL CORRUGATED METAL PANEL TO MATCH EXISTING
  - AIR BARRIER/SHEATHING WRAP
  - 1/2" OSB/PLYWOOD SHEATHING
  - 2x6 WOOD STUDS @ 16" O.C.
  - MIN. R20 BATT INSULATION
  - 6mil POLY VAPOUR BARRIER
  - 3/8" PLYWOOD SHEATHING (PAINTED)
- W3 WALL TYPE 3 - EXTERIOR WALL**
- EXISTING EXTERIOR WALL
  - 2x6 WOOD STUDS @ 16" O.C.
  - MIN. R20 BATT INSULATION
  - 6mil POLY VAPOUR BARRIER
  - 5/8" GYPSUM BOARD
- W4 WALL TYPE 4 - ACOUSTIC PLUMBING WALL**
- 5/8" GYPSUM BOARD
  - 2x6 WOOD STUDS @ 16" O.C.
  - 5.5" BATT INSULATION
  - 5/8" GYPSUM BOARD
- W5 WALL TYPE 5 - INTERIOR ACOUSTIC WALL**
- 5/8" GYPSUM BOARD
  - 2x4 WOOD STUDS @ 16" O.C.
  - 3.5" BATT INSULATION
  - 5/8" GYPSUM BOARD
- W6 WALL TYPE 6 - INTERIOR WALL**
- 5/8" GYPSUM BOARD
  - 2x4 WOOD STUDS @ 16" O.C.
  - 5/8" GYPSUM BOARD





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DRAWING:

**THIRD FLOOR PLAN  
 - PROPOSED**

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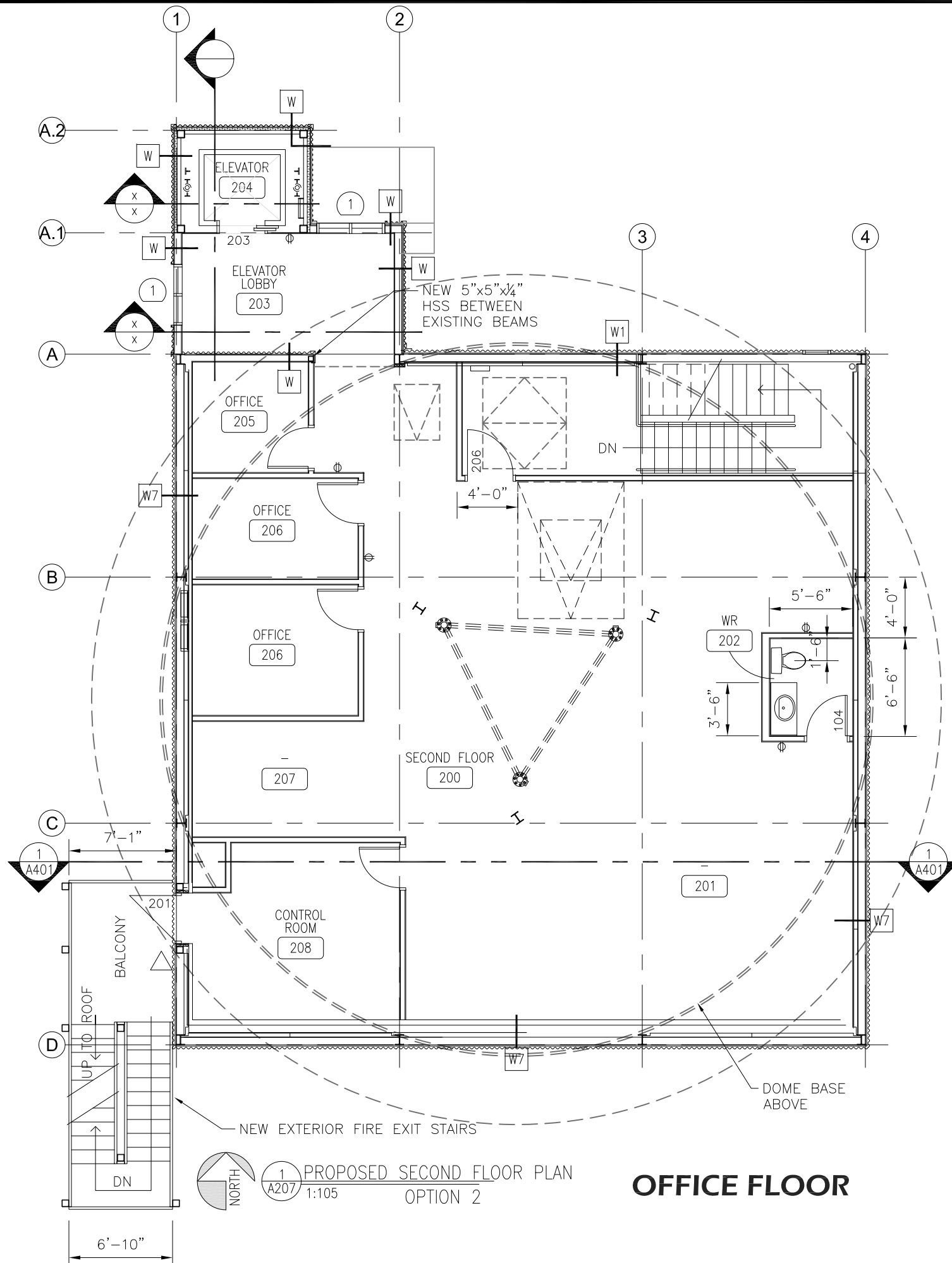
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**A207**



**PROPOSED SECOND FLOOR PLAN**  
 OPTION 2  
 1:105

**OFFICE FLOOR**

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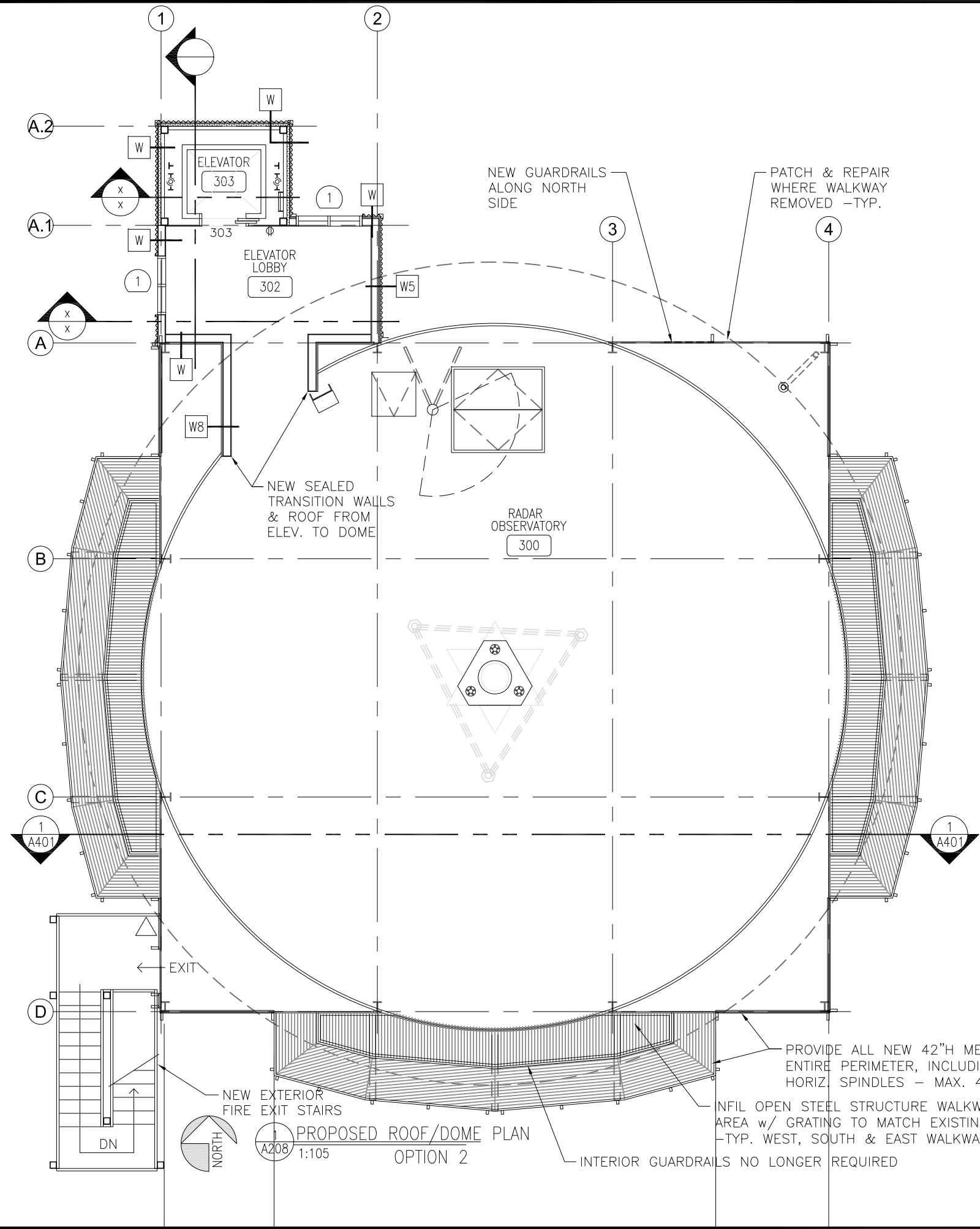
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**RENOVATIONS &**  
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**ALSASK, SK**

DRAWING:  
**ROOF / DOME LEVEL PLAN**  
**- PROPOSED**

PROJECT No: 711-15	SCALE: AS NOTED
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ADDITION  
ALSASK, SK

DRAWING:

EXISTING / DEMO EXTERIOR  
SOUTH ELEVATION

PROJECT No:  
711-15

SCALE:  
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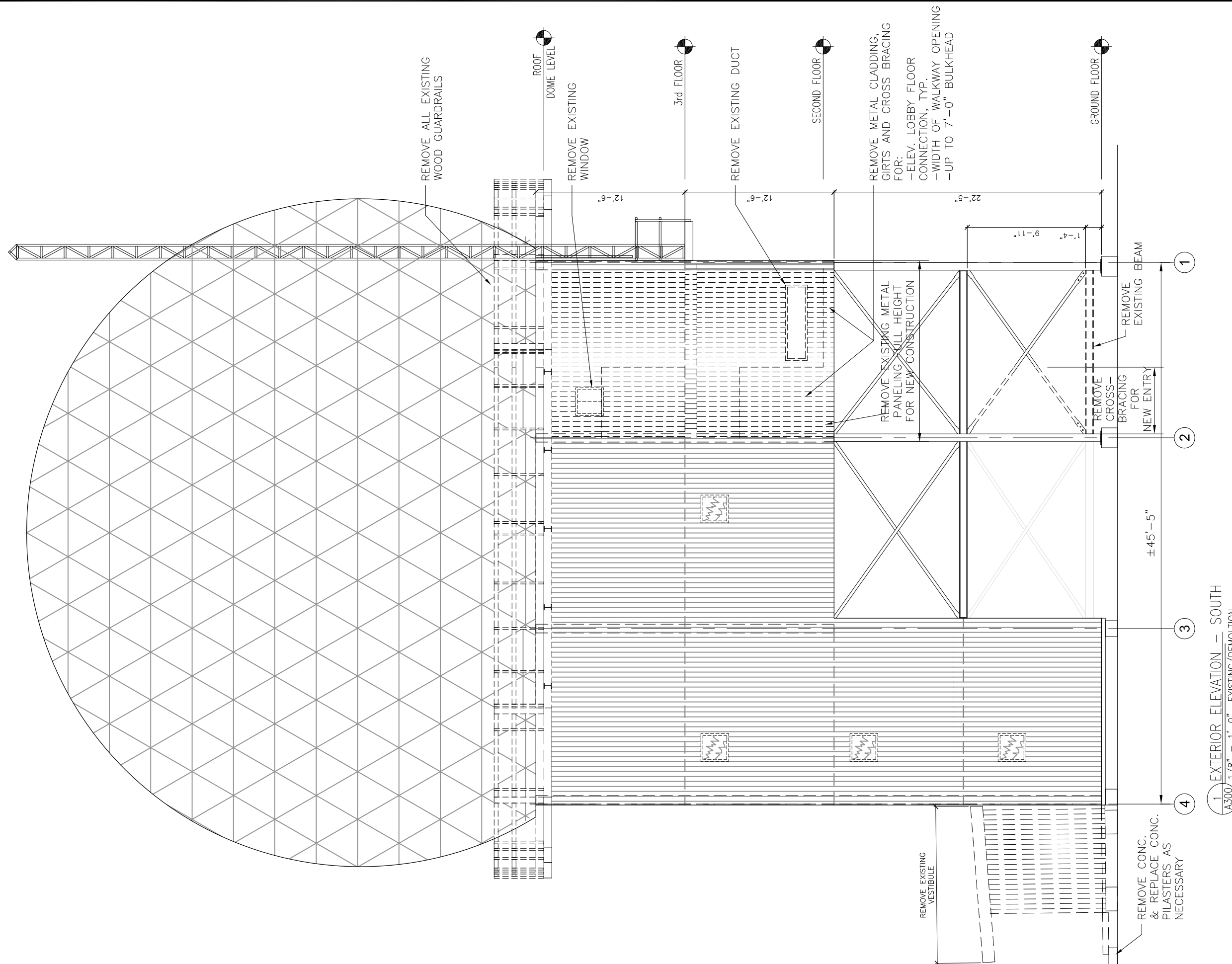
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A300



1 EXTERIOR ELEVATION - SOUTH  
A300 1/8" = 1'-0" EXISTING/DEMOLITION



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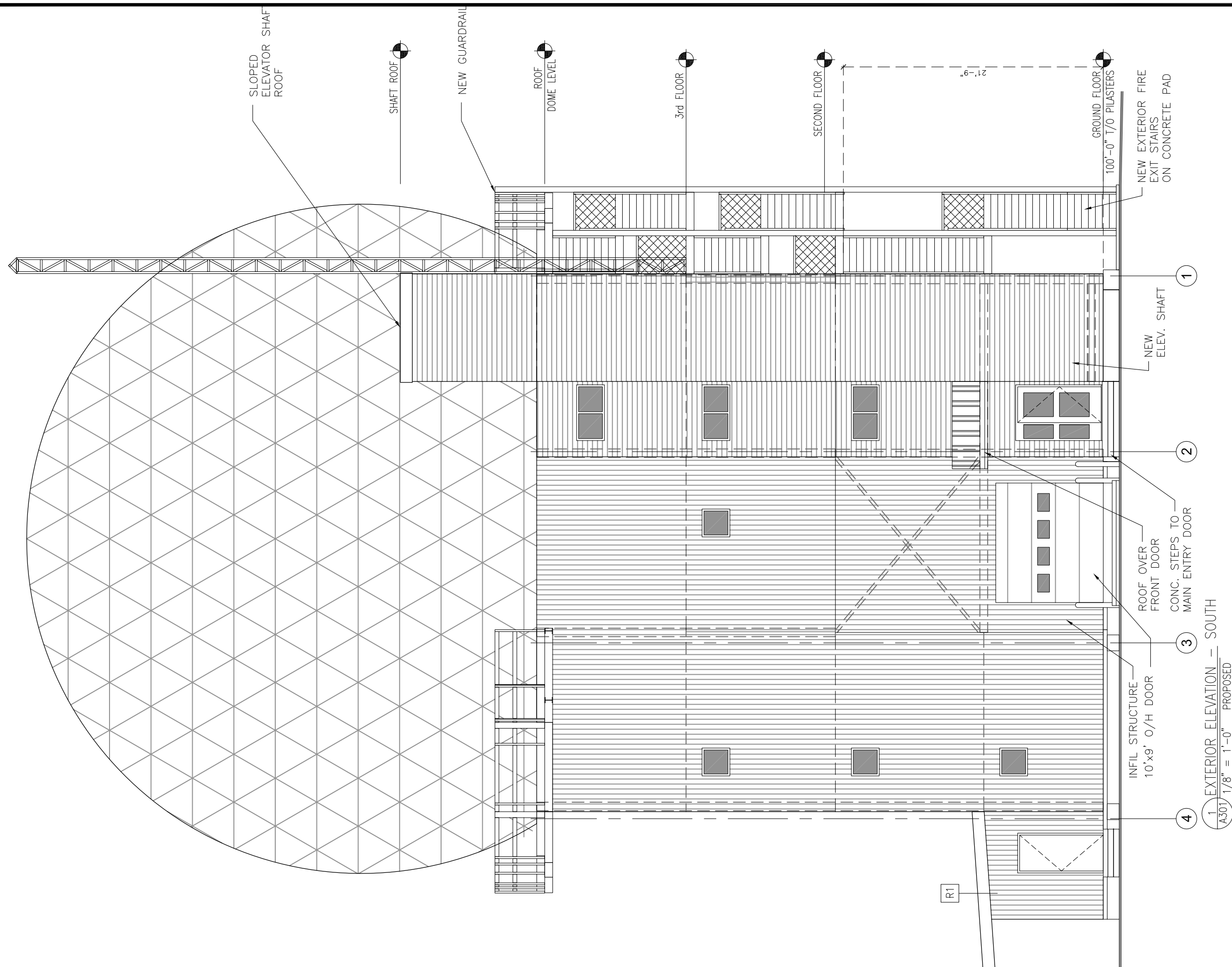
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A301



1 EXTERIOR ELEVATION - SOUTH  
A301 1/8" = 1'-0" PROPOSED



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## A400

