

POWER	
	DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE ABOVE COUNTER
	GFCI RECEPTACLE ABOVE COUNTER
	GFCI RECEPTACLE
	QUADPLEX RECEPTACLE
	QUADPLEX RECEPTACLE ABOVE COUNTER
	RECEPTACLE MOUNTED IN FLUSH CEILING
	SWITCH
	ELECTRICAL PANELBOARD - SURFACE MOUNTED
	SQUARE JUNCTION BOX
	FIELD DEVICE EQUIPMENT
	EQUIPMENT LOAD
	MOTOR
	MOTOR STARTER
	LOCAL DISCONNECT SWITCH
	CONDUIT RUN DOWN
	CONDUIT RUN UP
	CONDUIT STUB END
	UNIT HEATER
	FORCE FLOW HEATER
	BASEBOARD HEATER

POWER (SINGLE LINE)	
	TRANSFORMER
	CURRENT TRANSFORMER
	POTENTIAL TRANSFORMER
	CIRCUIT BREAKER A = AMPS P = POLE(S) LSI = LONG-TIME + SHORT-TIME + INSTANTANEOUS LSIG = LONG-TIME + SHORT-TIME + INSTANTANEOUS + GROUND FAULT
	FUSED DISCONNECT
	GROUND
	UTILITY METER
	FUSED DISCONNECT IN ENCLOSURE
	A-P MAIN C.B. ELECTRICAL PANELBOARD A = AMPS P = POLE(S) KA = RATING SPD = SURGE PROTECTION DEVICE LOCATION = PANEL LOCATION
LOCATION	

EMERGENCY LIGHTING	
	EMERGENCY LIGHTING REMOTE HEAD (DOUBLE)
	EMERGENCY BATTERY BANK
	EMERGENCY BATTERY BANK C/W LIGHTING HEADS

LIGHTING	
	LIGHTING DENOTATION: A = LUMINAIRE/FIXTURE TYPE a = CONTROL SWITCH(ES) A1-1 = POWER PANEL (A1) CIRCUIT # (1)
	2'X4' RECESSED CEILING MOUNT LIGHT FIXTURE
	1'X4' SUSPENDED OR SURFACE MOUNT LIGHT FIXTURE
	STRIP LIGHT FIXTURE
	2'X2' RECESSED CEILING MOUNT LIGHT FIXTURE
	WALL MOUNT STRIP LIGHT FIXTURE
	WALL MOUNT LUMINAIRE
	CEILING MOUNT PENDANT
	DOWNLIGHT LUMINAIRE
	SINGLE LIGHT SWITCH WHERE X DENOTES: a = LIGHTS CONTROLLED (i.e. a,b,c,...) O = INTEGRATED OCCAPANCY SENSOR D = DIMMER CONTROL 3 = 3-WAY SWITCHING
	TWO SWITCHES IN GANG
	THREE SWITCHES IN GANG
	CEILING MOUNTED OCCUPANCY SENSOR

EGRESS SIGNAGE (EXIT)	
	EXIT SIGN - SINGLE FACE
	PICTOGRAM EGRESS SIGN DENOTATION WHERE X DENOTES: EA = SINGLE FACED EB = DOUBLE FACED
	PICTOGRAM EGRESS SIGN CEILING MOUNTED
	PICTOGRAM EGRESS SIGN C/W DIRECTIONAL CHEVRONS (ARROWS) AS INDICATED

COMMUNICATIONS	
	DATA/VOICE WALL OUTLET (X = CABLE QUANTITY)
	VOICE WALL OUTLET (X = CABLE QUANTITY)
	WIRELESS ACCESS POINT CEILING OUTLET (X = CABLE QUANTITY)

SYSTEMS	
	VOLUME CONTROL
	PUBLIC ADDRESS WALL MOUNTED SPEAKER

GENERAL	
	DETAIL / SECTION REFERENCE
	DRAWING REFERENCE

FIRE ALARM	
	FIRE ALARM MANUAL PULL STATION
	FIRE ALARM BELL
	FIRE ALARM STROBE
	FIRE ALARM HORN / STROBE
	HEAT DETECTOR WHERE XX DENOTES: FT = FIXED TEMPERATURE RR = RATE OF RISE
	CARBON MONOXIDE (CO) DETECTOR
	SMOKE DETECTOR
	DUCT SMOKE DETECTOR
	FIRE ALARM CONTROL PANEL
	FIRE ALARM REMOTE ANNUNCIATOR
	SPRINKLER TAMPER SWITCH
	SPRINKLER FLOW SWITCH
	SPRINKLER PRESSURE SWITCH
	ISOLATION MODULE
	ADDRESSABLE MONITORING MODULE
	RELAY ADDRESSABLE MODULE
	END OF LINE RESISTOR
	FIRE DOOR MAGNETIC HOLD OPEN DEVICE (RELEASED ON FIRE ALARM EVENT)

SECURITY AND CONTROL	
	POWERED AUTOMATIC DOOR OPERATOR
	DOOR CONTACT / DOOR POSITION SWITCH (DPS)
	AUTOMATIC DOOR OPERATOR PUSHBUTTON
	INTRUSION ALARM KEYPAD
	INTRUSION GLASS BREAK SENSOR
	INTRUSION PIR MOTION SENSOR
	SECURITY SIREN / HORN
	ACCESS CONTROL SYSTEM PANEL / CONTROLLER
	INTRUSION ALARM SYSTEM PANEL

ABBREVIATION / SYMBOL MODIFIER LIST	
ITEM	DESCRIPTION
ADO	AUTOMATIC DOOR OPERATOR
AFF	ABOVE FINISHED FLOOR
CM	CEILING MOUNTED
DF	DRINKING FOUNTAIN
DW	DISH WASHER
EC	ELECTRICAL CONTRACTOR
F	FRIDGE
IPLC	INTELLIGENT PARKING LOT CONTROLLER
LV	LOW VOLTAGE
M	MICROWAVE
MC	MECHANICAL CONTRACTOR
MW	MILLWORK MOUNTED
NL	NIGHT LIGHT
TV	MONITOR DISPLAY
USB	USB CHARGING STATION
WAP	WIRELESS ACCESS POINT
WG	WIRE GUARD
WP	WEATHERPROOF
15/20	T-SLOT (15A/20A) RECEPTACLE

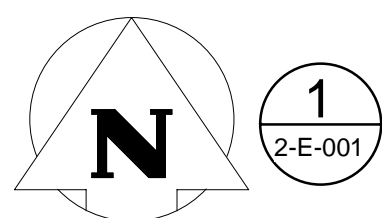
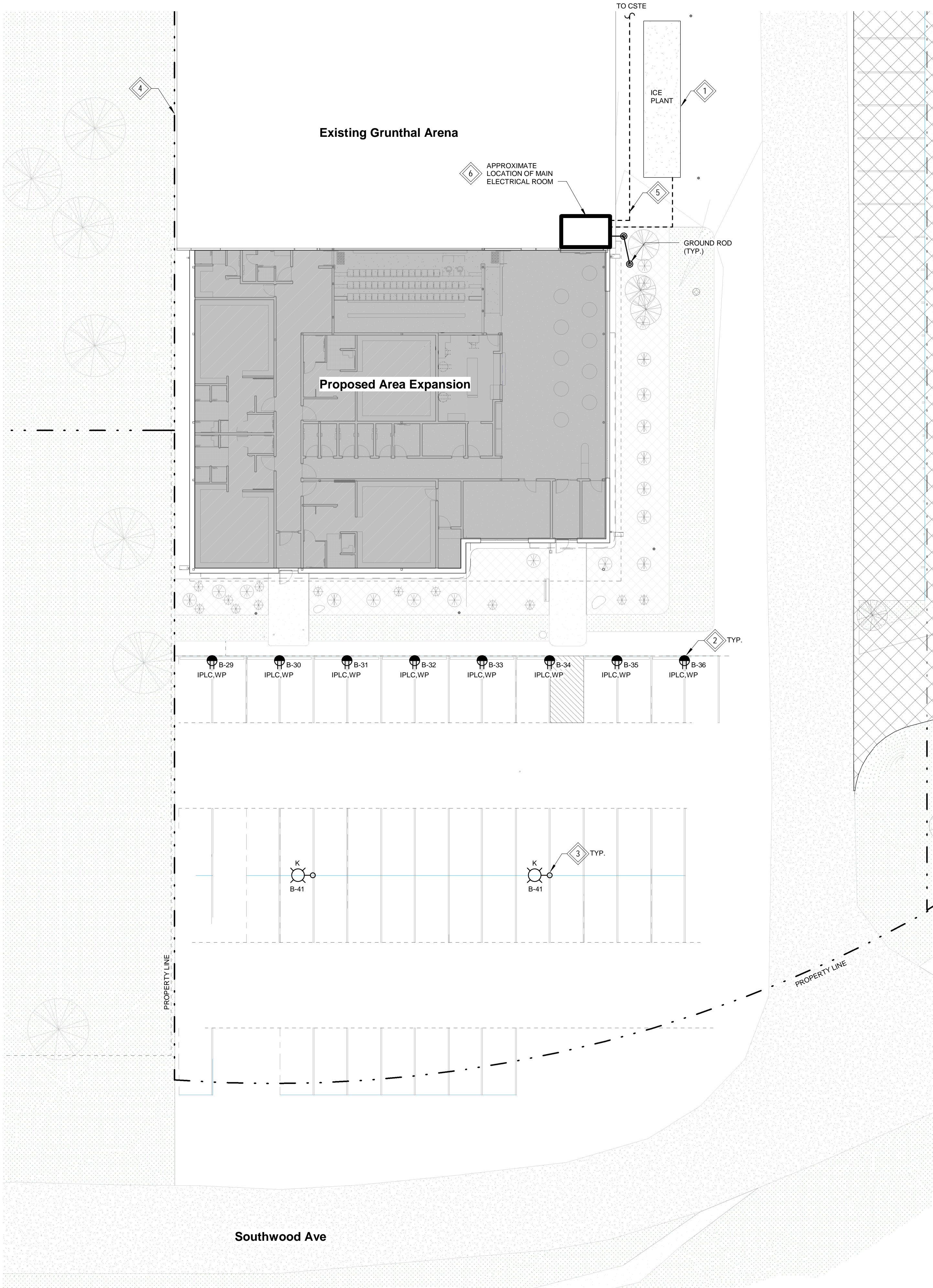
GENERAL NOTES	
1.	DEVICE SYMBOLS SHOWN ON THE DRAWINGS AS A "GREY" LINE WEIGHT DENOTES THAT THEY ARE EXISTING.
2.	WHERE THE MECHANICAL DESIGN UTILIZES A PLENUM RETURN AIR CEILING DESIGN, ALL EQUIPMENT AND MATERIALS INSTALLED WITHIN THE PLENUM RETURN CEILING MUST MEET THE FLAME SPREAD AND SMOKE DEVELOPED RATINGS OF 25/60 AND BE APPROVED FOR USE IN PLENUM RETURN CEILING. COORDINATE PLENUM CEILING LOCATIONS WITH THE MECHANICAL CONTRACTOR. LUMINAIRES THAT ARE MANUFACTURED WITH A METAL HOUSING MEET THIS REQUIREMENT AND ARE NOT REQUIRED TO BE PLENUM RATED UNLESS INDICATED OTHERWISE.
3.	COORDINATE ALL DEVICE LOCATIONS AND CIRCUIT ROUTING WITH ANY MILLWORK VENDOR PRIOR TO ROUGH-IN.
4.	COORDINATE THE CONNECTIONS OF ALL EQUIPMENT PROVIDED BY OTHERS WITH THE CONTRACTOR PROVIDING THE EQUIPMENT PRIOR TO ROUGH-IN. THIS INCLUDES, BUT IS NOT LIMITED TO MECHANICAL EQUIPMENT, KITCHEN EQUIPMENT, AUDIO/VISUAL EQUIPMENT, FIRE SUPPRESSION SYSTEM EQUIPMENT, ETC. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE THE APPROPRIATE DISCONNECTING MEANS FOR, AND TO MAKE THE FINAL CONNECTION TO, ANY HARDWIRED EQUIPMENT. THE ELECTRICAL CONTRACTOR IS ALSO RESPONSIBLE TO PROVIDE AN APPROPRIATE CORD AND PLUG FOR ANY CORD-AND-PLUG CONNECTED EQUIPMENT THAT IS NOT EQUIPPED WITH AN INTEGRAL CORD AND PLUG.
5.	THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PRESERVING THE FIRE RATING OF ANY FIRE-RATED CEILING ASSEMBLIES BY PROVIDING THE APPROPRIATE FIRE-RATED LUMINAIRE TENTS AS MANUFACTURED BY TENMAT OR NELSON FIRESTOP OR BY BUILDING FIRE-RATED ENCLOSURES AROUND EACH LUMINAIRE THAT IS RECESSED INTO THE FIRE-RATED ASSEMBLY. COORDINATE FIRE-RATED CEILING ASSEMBLY LOCATIONS WITH THE ARCHITECTURAL DRAWINGS.
6.	ALL EQUIPMENT, DEVICES, AND LUMINAIRES SHALL BE SUITABLE FOR THE ENVIRONMENT IN WHICH THEY ARE INSTALLED. EQUIPMENT MOUNTED OUTDOORS SHALL BE NEMA 3R. DEVICES MOUNTED IN DAMP OR WET LOCATIONS SHALL BE WEATHERPROOF. RECEPTACLES RATED 15- OR 20- AMPS AND 120 VOLTS WHICH ARE LOCATED IN DAMP OR WET LOCATIONS SHALL BE GFCI PROTECTED AND EQUIPPED WITH A SUITABLE WEATHERPROOF COVERPLATE (WHILE-IN-USE IN WET LOCATIONS).
7.	ALL LUGS, TERMINALS, ETC. IN ELECTRICAL DISTRIBUTION EQUIPMENT SHALL BE LISTED FOR A MINIMUM OF 75 DEGREES C CONDUCTORS. TERMINATIONS LISTED FOR ONLY 60 DEGREES C CONDUCTORS ARE NOT PERMITTED.
8.	CONDUCTORS #12 AWG AND SMALLER SHALL BE SOLID. CONDUCTORS #10 AWG AND LARGER ARE PERMITTED TO BE STRANDED.
9.	REFER TO ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS OF ELECTRICAL EQUIPMENT WITHIN MILLWORK. THIS INCLUDES BUT NOT LIMITED TO POWER RECEPTACLES, COMMUNICATION OUTLETS, ETC..
10.	CONTRACTOR TO CONFIRM EXACT SIZE AND LOCATION AND WIRING REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION OF ANY WIRING. ADJUST WIRING, BREAKERS, ETC. TO SUIT. ALL COSTS TO BE INCLUDED IN BASE TENDER QUOTE.

GENERAL LIGHTING NOTES	
1.	SEE THE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL LUMINAIRES. THE ARCHITECTURAL REFLECTED CEILING PLAN SHALL TAKE PRECEDENCE OVER THE LIGHTING PLAN IN REGARDS TO LUMINAIRE LOCATIONS.
2.	COORDINATE THE MOUNTING HEIGHT OF ALL LUMINAIRES WITH THE ARCHITECT PRIOR TO ROUGH-IN.
3.	CONFIRM ALL LUMINAIRE FINISHES WITH THE ARCHITECT PRIOR TO ORDERING.
4.	PROVIDE ALL ACCESSORIES INCLUDING TRIM RINGS, STEMS, CANOPIES, CORDS, MOUNTING HARDWARE, RESTRAINTS, HURRICANE CLIPS, ETC., NECESSARY TO MOUNT THE FIXTURE IN A COMPLETE, AND APPROVED METHOD.
5.	PROVIDE ANY SEISMIC BRACING AND/OR RESTRAINTS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
6.	PROVIDE CHAIN HANGERS FOR ALL SUSPENDED CHANNELS AND/OR STRIPLIGHTS IN UNFINISHED AREAS.
7.	PROVIDE DRYWALL FRAMES FOR ALL LUMINAIRES THAT ARE RECESSED INTO DRYWALL CEILINGS.
8.	SUPPORT ALL LUMINAIRES COMPLETELY INDEPENDENT OF ANY SUSPENDED CEILING.
9.	PROVIDE EXTENSIONS FOR RECESSED LUMINAIRES WHERE REQUIRED BY THE CEILING THICKNESS. COORDINATE WITH THE ARCHITECTURAL DETAILS.
10.	WHEN REQUIRED, PROVIDE FIRE-RATED LUMINAIRE COVERS (LUMINAIRE TENTS) FOR LUMINAIRES INSTALLED IN FIRE-RATED CEILING ASSEMBLIES OR PROVIDE FIRE-RATED BOXES AROUND EACH LUMINAIRE. COORDINATE LOCATIONS OF FIRE-RATED CEILING ASSEMBLIES WITH THE ARCHITECTURAL PLANS.
11.	PROVIDE LUMINAIRES THAT ARE INSULATED CEILING (IC) RATED WHEN RECESSED INTO INSULATED CEILINGS. IF THE FIXTURE CAN NOT BE PROVIDED WITH AN IC RATING, INSULATION SHALL NOT BE INSTALLED ABOVE OR WITHIN 3 INCHES OF THE LUMINAIRE. COORDINATE LOCATIONS OF INSULATED CEILINGS WITH THE ARCHITECTURAL PLANS.
12.	COORDINATE MOUNTING LOCATION, NUMBER OF FACES, AND DIRECTIONAL ARROWS OF EXIT SIGNS AS REQUIRED TO MARK PATHS OF EGRESS TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION.
13.	VERIFY FINAL LINEAR LED LENGTH PRIOR TO ORDERING. ORDER POWER SUPPLY PER MANUFACTURER'S RECOMMENDATIONS IN ORDER FOR FIXTURES TO BE SUPPLIED BY 120V.
14.	ALL LIGHTING FIXTURE LOCATIONS SHOWN SHALL BE COORDINATED IN CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS. REPORT ALL DISCREPANCIES TO THE ENGINEER/CONSULTANT FOR REVIEW PRIOR TO THE ORDERING AND INSTALLATION OF THE FIXTURES.
15.	CONTRACTOR SHALL PROVIDE ALL REQUIRED ZONE SENSING RELAYS EITHER INTEGRAL OR IN A SEPARATE ENCLOSURE IN COMBINATION WITH ALL EMERGENCY BATTERY UNITS. QUANTITY OF ZONE RELAYS SHALL BE A MINIMUM OF FOUR. CONTRACTOR TO ENSURE ADEQUATE ZONE SENSING RELAYS ARE PROVIDED TO MEET CEC 46-304 (4)

FIRE STOPPING NOTES	
1.	ALL ELECTRICAL WIRES, CABLES, NON-COMBUSTIBLE RACEWAYS, OUTLET BOXES AND OTHER SIMILAR SERVICES THAT PENETRATE FIRE WALLS, FIRE SEPARATIONS OR ASSEMBLIES AND THAT ARE REQUIRED TO HAVE A FIRE RESISTANCE RATING OR FIRE SEPARATION, SHALL BE SEALED BY FIRE STOP SYSTEM WHICH HAS AN "F" AND/OR "F-T" RATING NOT LESS THAN THE REQUIRED FIRE PROTECTION RATING OF FIRE SEPARATION.
2.	CONTRACTOR SHALL ONLY USE LISTED MATERIALS AND METHODS.
3.	SERVICE PENETRATION AND FIRE STOPPING OF SERVICE PENETRATION IN FIRE SEPARATION AND FIRE RATED ASSEMBLIES SHALL COMPLY WITH THE CURRENT BUILDING CODE.
4.	PROVIDE FOR FIRE STOPS IN CONCEALED SPACES AS REQUIRED BY THE CURRENT BUILDING CODE.
5.	ALL FIRE RESISTANCE RATED ASSEMBLIES (I.E. WALLS CEILINGS, ETC.) WHICH CONTAIN PANEL BOARDS, BACK BOXES, RECESSED LIGHTING FIXTURES, ETC. SHALL BE C/W FIRE RATED BACKING TO MAINTAIN THE INTEGRITY OF THE FIRE RESISTANCE.

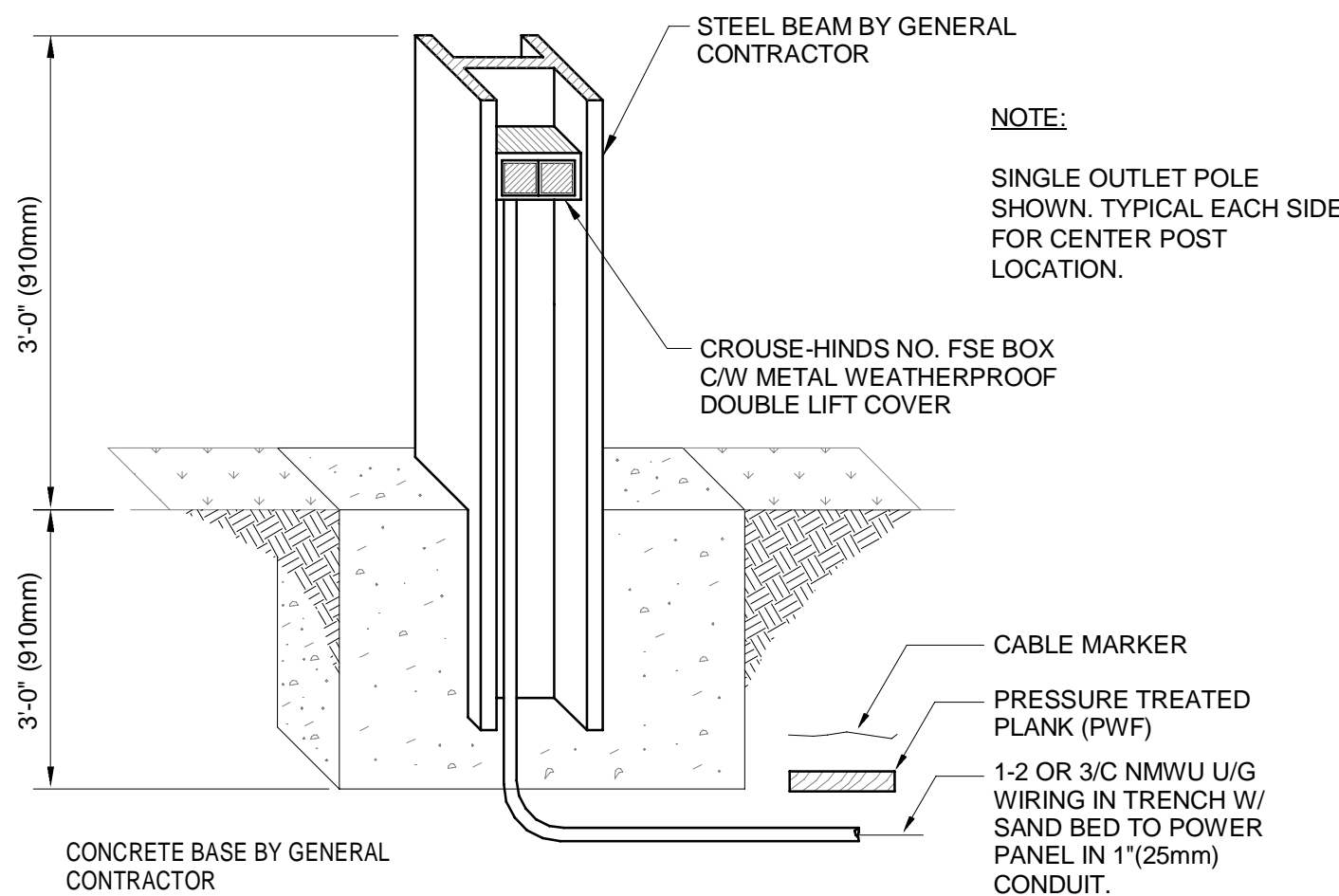
GENERAL DEMOLITION NOTES	
1.	CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES AND STANDARDS.
2.	PRIOR TO COMMENCEMENT OF ANY WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS TO COMPLETE THE DEMOLITION SCOPE OF WORK.
3.	CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING SAFE THE AREA OF DEMOLITION AND FOR ENSURING THAT SAFETY PROCEDURES, PRACTICES AND OPERATIONS ARE FOLLOWED. ALL DEMOLITION AND MATERIAL SHALL BE SAFELY REMOVED TO ALLOW FUTURE CONSTRUCTION AND ALL DEBRIS DISPOSED OF ON A DAILY BASIS.
4.	CONTRACTOR SHALL PROVIDE SAFETY AND DUST PROOF BARRIERS TO PROTECT ALL PUBLICLY OCCUPIED AREAS DURING THE DEMOLITION AND CONSTRUCTION PERIOD. ALL AREAS, FURNITURE, EQUIPMENT ETC. THAT ARE ADJACENT OR NOT A PART OF THE DEMOLITION AREA SHALL BE PROTECTED FROM DAMAGE.
5.	ALL MATERIALS REMOVED DUE TO THE DEMOLITION OF EXISTING AREAS ARE OF THE OWNER'S PROPERTY IN WHICH THE OWNER HAS THE FIRST RIGHT TO CLAIM. ALL ITEMS THAT ARE NOT CLAIMED BY THE OWNER SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE AND DISCARD FROM SITE.
6.	NON-DEMOLITION ITEMS MAY BE SHOWN ON THE DRAWINGS TO DESCRIBE THE INTENT OF THE OVERALL SCOPE OF WORK AND TO AID THE CONTRACTOR WITH THEIR COORDINATION. CONTRACTOR SHALL FIELD VERIFY ALL DEVICE LOCATIONS.
7.	WHERE CONDUITS ARE TO BE REMOVED WITHIN THE SCOPE OF WORK, ALL CONDUITS AND ASSOCIATED WIRING (I.E. FEEDER CIRCUIT WIRING) SHALL BE REMOVED BACK TO THEIR SOURCE AND NOT JUST TO THE NEAREST JUNCTION BOX.
8.	ALL OBSOLETE/ABANDONED CABLING AND CONDUIT WITHIN CEILING SPACES THAT ARE AFFECTED BY THE AREA OF DEMOLITION SHALL BE COMPLETELY REMOVED.
9.	WHERE ELECTRICAL EQUIPMENT HAS BEEN REMOVED, ALL WALLS/CEILINGS SHALL BE REPAIRED TO EXISTING CONDITIONS. SURFACES SHALL BE PATCHED AND PAINTED TO MATCH EXISTING.

DRAWING LIST - PHASE 2	
DWG. NO.	DESCRIPTION
2-E-000	SYMBOL LEGENDS, DRAWING LIST & GENERAL NOTES
2-E-001	ELECTRICAL SITE PLAN
2-E-100	ELECTRICAL DEMOLITION PLANS - POWER AND SYSTEMS
2-E-101	ELECTRICAL DEMOLITION PLANS - LIGHTING
2-E-200	ELECTRICAL NEW PLANS - POWER
2-E-300	ELECTRICAL NEW PLANS - LIGHTING
2-E-400	ELECTRICAL NEW PLANS - SYSTEMS
2-E-401	ELECTRICAL EXISTING ARENA NEW PLAN - SYSTEMS
2-E-500	ELECTRICAL SINGLE LINE DIAGRAM - DEMOLITION
2-E-501	ELECTRICAL SINGLE LINE DIAGRAM - NEW
2-E-600	ELECTRICAL LUMINAIRE SCHEDULES
2-E-601	MECHANICAL EQUIPMENT SCHEDULES
2-E-602	ELECTRICAL PANEL SCHEDULES
2-E-700	ELECTRICAL FIRE ALARM RISER AND DETAILS
2-E-701	ELECTRICAL SECURITY ROUGH-IN DETAILS
DRAWING QUANTITY: 15	

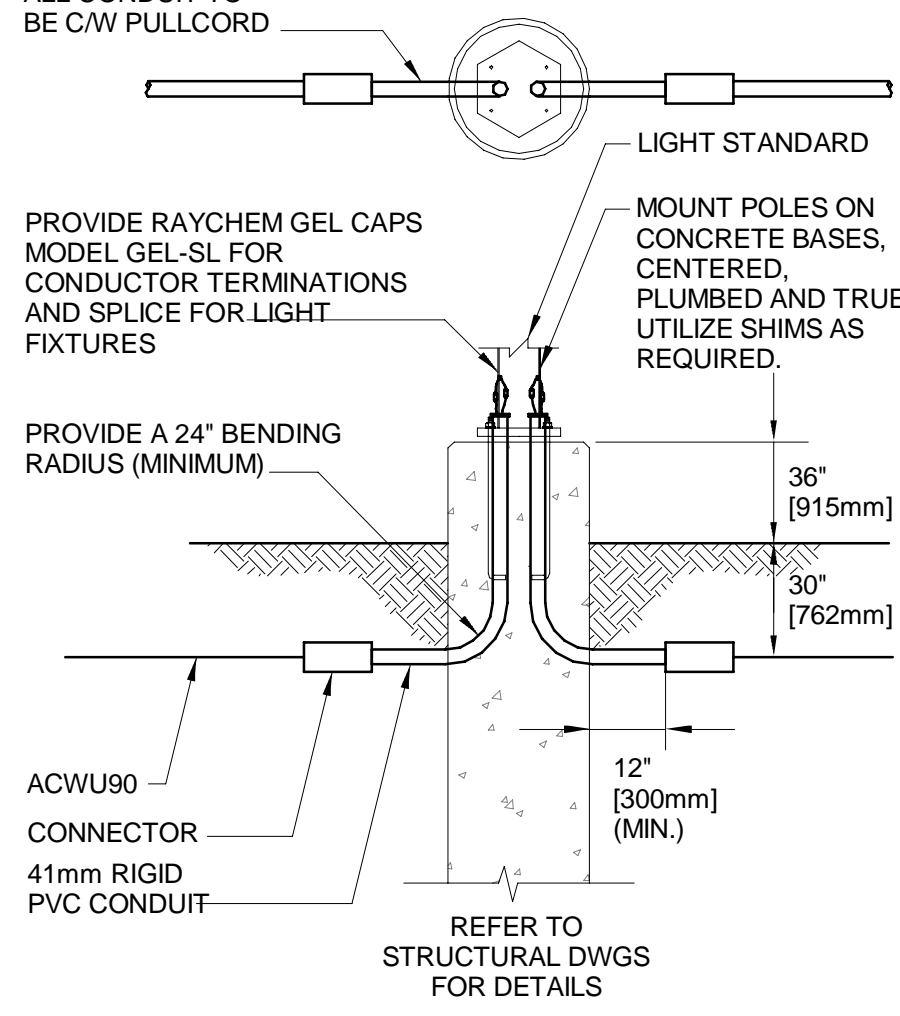


ELECTRICAL SITE PLAN

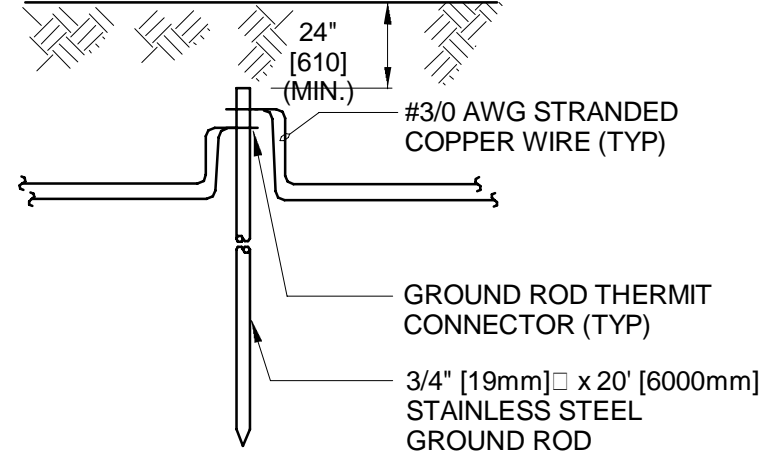
SCALE: 1 : 200



A PARKING RECEPTACLE I-BEAM PARKING DETAIL
2-E-001 SCALE: N.T.S.



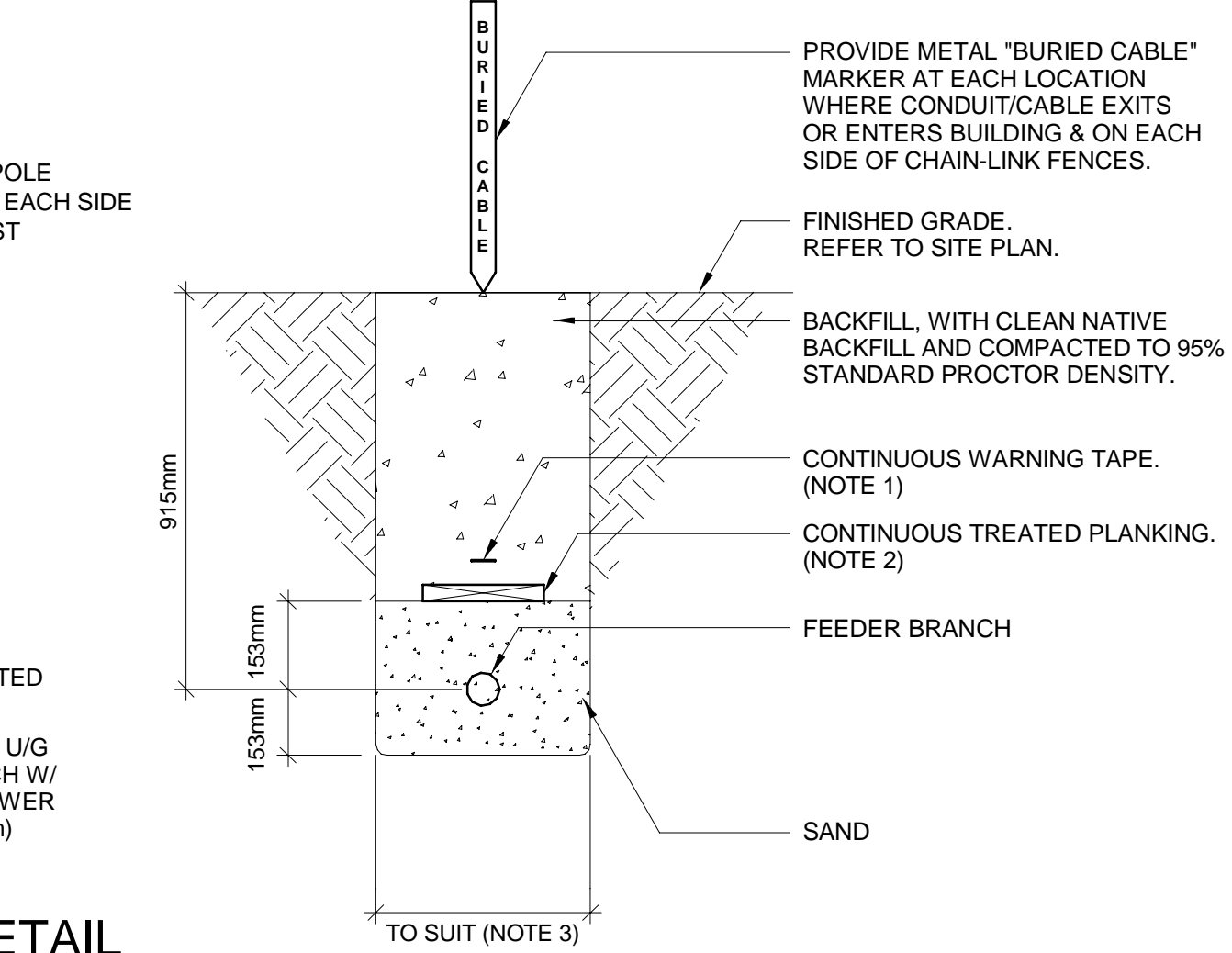
B PARKING LOT LIGHT POLE CONNECTION
2-E-001 SCALE: N.T.S.



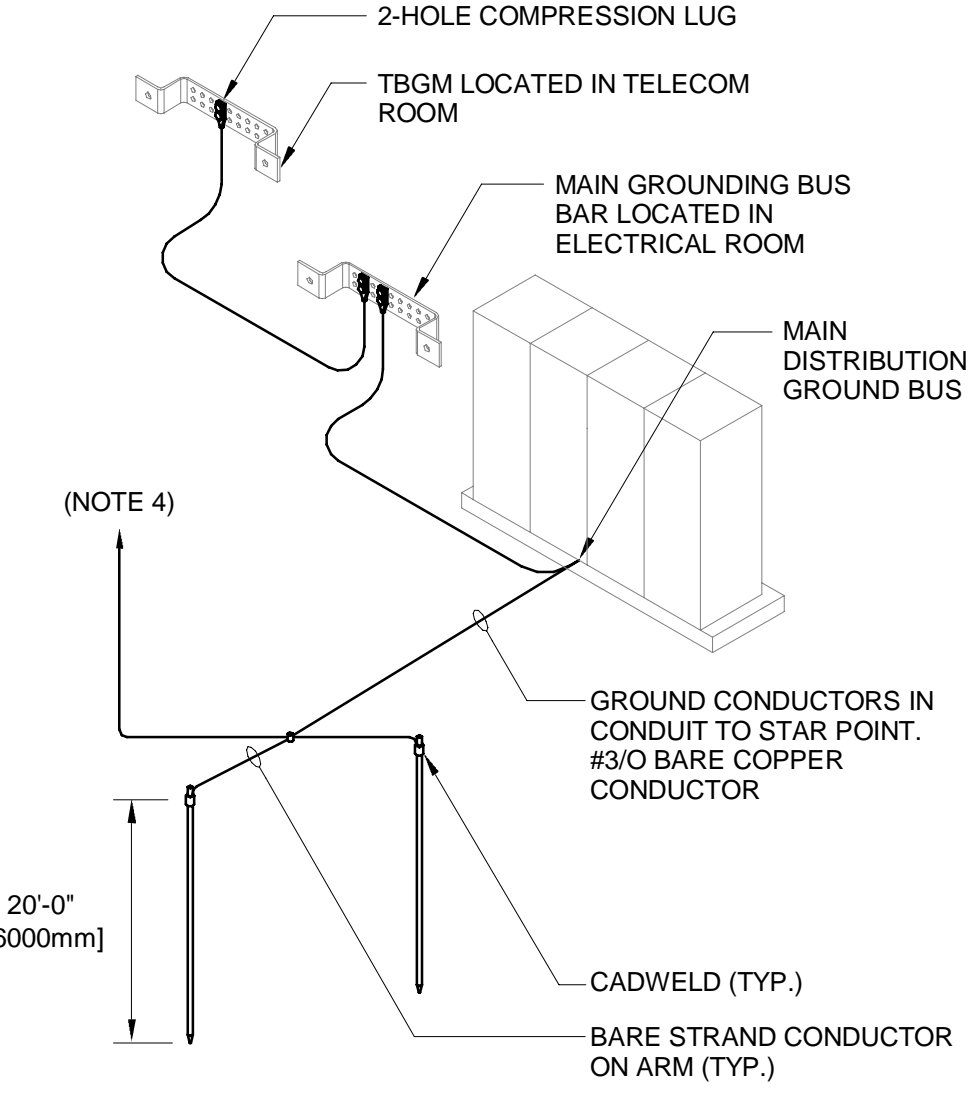
C GROUND ROD DETAIL
2-E-001 SCALE: N.T.S.

KEYNOTES

1. PROVIDE A 600V POWER CONNECTION TO THE ICE PLANT VIA UNDERGROUND FEEDER. REFER TO THE SINGLE LINE DIAGRAM ON DRAWING 2-E-501 FOR ADDITIONAL DETAILS. COORDINATE FINAL POWER REQUIREMENTS WITH ICE PLANT PROVIDER DURING TENDER.
2. PROVIDE IPLC RECEPTACLES COMPLETE WITH WEATHER PROOF COVER. COORDINATE MOUNTING DETAILS WITH ARCHITECTURAL.
3. COORDINATE THE CONCRETE BASE FOR THE POLE MOUNTED LUMINAIRE WITH STRUCTURAL.
4. CONTRACTOR SHALL ENSURE THAT THE EXISTING ARENA REMAINS OPERATIONAL DURING THE DEMOLITION AND CONSTRUCTION OF THE SOUTH ADDITION. POWER AND FIRE ALARM SYSTEMS SHALL BE MAINTAINED AND PROTECTED UNTIL THE NEW SYSTEMS ARE OPERATIONAL.
5. PROVIDE A NEW POWER FEEDER FROM THE EXISTING CSTE NEAR THE NORTH OF THE ARENA TO THE NEW MAIN DISTRIBUTION IN THE ELECTRICAL ROOM.
6. PROVIDE COMMUNICATIONS SERVICE TO THE COMMUNICATIONS DEMARCATION POINT IN THE ELECTRICAL ROOM. COORDINATE WITH THE COMMUNICATIONS UTILITY FOR ALL REQUIREMENTS.



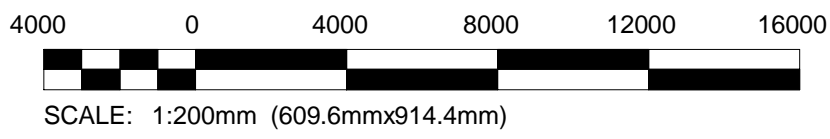
D EXTERIOR BRANCH FEEDER DETAIL
2-E-001 SCALE: N.T.S.



E MAIN BUILDING GROUNDING LAYOUT
2-E-001 SCALE: N.T.S.

GENERAL NOTES:

1. PROVIDE ALL TRENCHING AND BACK FILLING FOR UNDERGROUND POWER AND COMMUNICATIONS CABLES IN CONFLICT WITH NEW UNDERGROUND SERVICE FEEDERS TO BE EXTENDED, RE-ROUTED, RE-WIRED AND RECONNECTED AS REQUIRED TO INSTALL NEW FEEDERS.
2. PROVIDE CONDUIT SLEEVES FOR ALL WIRING ENTERING THE BUILDING. COORDINATE ALL WORK WITH GENERAL CONTRACTOR.
3. ALLOW FOR SCANNING FOR UNDERGROUND SERVICES PRIOR TO TRENCHING/PUSHING NEW FEEDERS UNDERGROUND.
4. COORDINATE EXISTING UNDERGROUND POWER AND COMMUNICATION CABLES WITH OWNER AND UTILITIES PRIOR TO TRENCHING AND SITE EXCAVATION FOR NEW FEEDER AND BRANCH CIRCUIT WIRING INSTALLATION. TRACE ALL EXISTING LINES IN AREA OF WORK. INCLUDE ALL COSTS IN CONTRACT.
5. EXISTING BRANCH CIRCUITS, UNDERGROUND POWER FEEDERS OR COMMUNICATIONS CABLES IN CONFLICT WITH NEW UNDERGROUND SERVICE FEEDERS TO BE EXTENDED, RE-ROUTED, RE-WIRED AND RECONNECTED AS REQUIRED TO INSTALL NEW FEEDERS.
6. COORDINATE WITH UTILITY, OWNER AND CONTRACTOR FOR PROPER PHASING OF ALL WORK DURING AFTER HOURS OPERATION. MINIMIZE SERVICE INTERRUPTION. CONTRACTOR TO VISIT SITE TO DETERMINE REQUIRED WORK.
7. COORDINATE ALL WORK WITH THE POWER AND COMMUNICATIONS UTILITIES. ALLOW FOR APPLYING FOR SERVICE UPGRADES WITH EACH UTILITY AS REQUIRED. INSTALL ALL INFRASTRUCTURE AS REQUIRED BY THE UTILITIES.



FOR TENDER ONLY
NOT TO BE USED FOR CONSTRUCTION

COPYRIGHT
Drawings and specifications, as instruments of service are the property of the architect, the copyright in the same being reserved to Verne Reimer Architecture Incorporated. No reproduction may be made without the permission of the architect and when made, must bear his name. All prints to be returned to the architect. The general contractor and/or project manager shall verify dimensions and data noted herein with conditions on the site and is held responsible for reporting any discrepancy to the architect for adjustment. Do not scale the drawings.

CONSULTANTS
KGS GROUP

NOTES

A	2026.06.03	ISSUED FOR TENDER/PERMIT
REV	DATE	DESCRIPTION
PROJECT NORTH		

PERMIT / STAMP

OWNER
Owner

PROJECT NAME & ADDRESS
**GRUNTHAL ARENA EXPANSION
GRUNTHAL, MB**

TITLE
ELECTRICAL SITE PLAN

SCALE
PROJECT NUMBER
DRAWN BY

As indicated
25-1962-003
RAH

2-E-001

A	2026.06.03	ISSUED FOR TENDER/PERMIT
REV	DATE	DESCRIPTION
PROJECT NORTH		

PERMIT / STAMP

OWNER
Owner

PROJECT NAME & ADDRESS
GRUNTHAL ARENA EXPANSION
GRUNTHAL, MB

TITLE
ELECTRICAL DEMOLITION
PLANS - POWER AND SYSTEMS
SCALE
PROJECT NUMBER
DRAWN BY

As indicated
25-1962-003
RAH

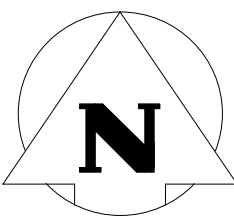
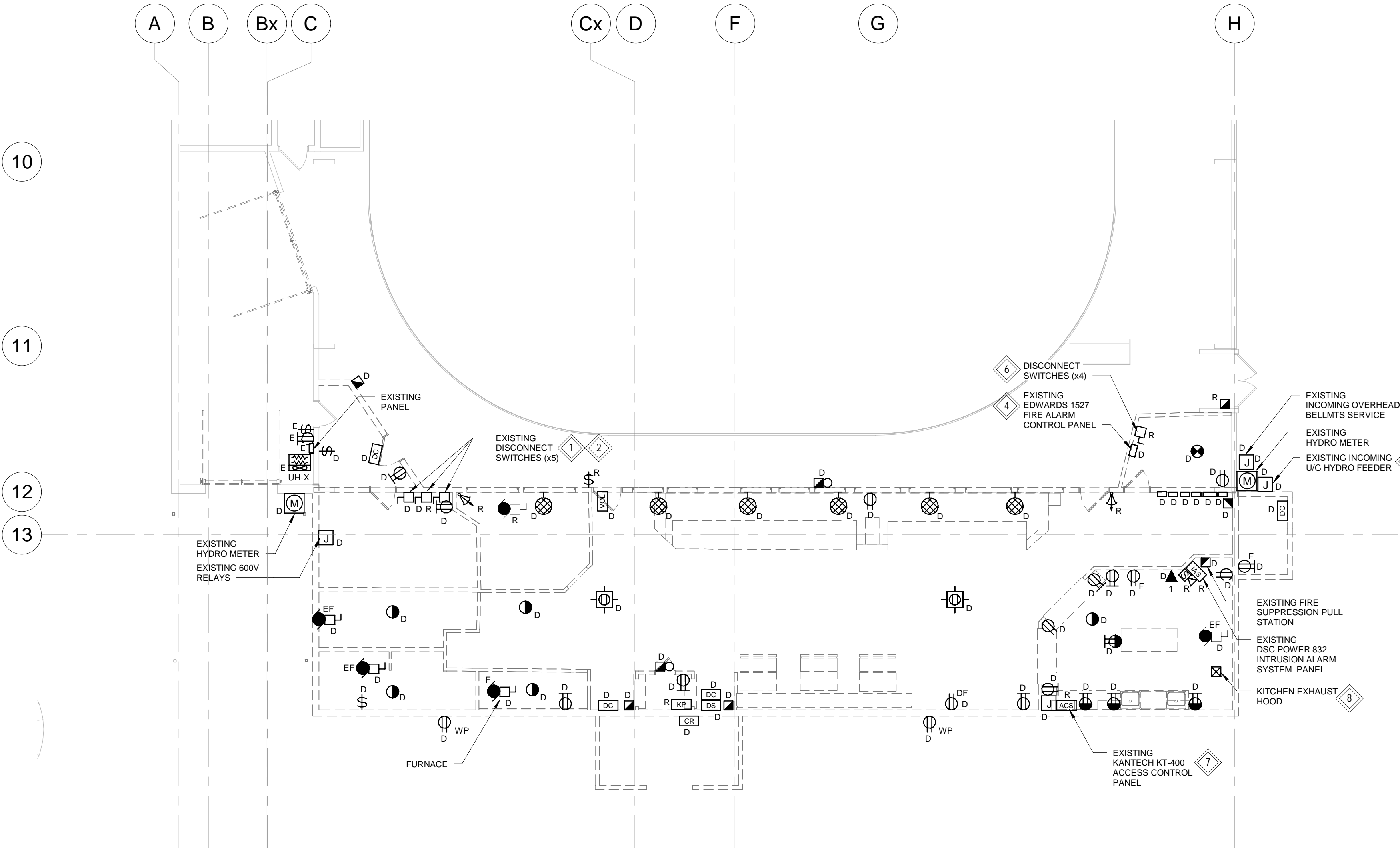
2-E-100

GENERAL NOTES:

1. ITEMS DENOTE AS:
'D' - ARE EXISTING TO BE DEMOLISHED
'E' - ARE EXISTING TO BE MAINTAINED
'R' - ARE EXISTING TO BE RELOCATED

KEYNOTES

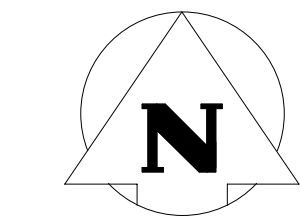
- 1 RELOCATE EXISTING ARENA LIGHTING SWITCHES, DISCONNECT SWITCHES AND CONTACTORS. EXTEND WIRING AS REQUIRED.
- 2 DISCONNECT AND REMOVE 600V SPLITTER AND CHILLER DISCONNECT SWITCHES. REMOVE ALL WIRING BACK TO SOURCE.
- 3 RE-FEED EXISTING TRANSFORMER AND PANEL FROM THE NEW 600V DISTRIBUTION.
- 4 MAINTAIN EXISTING FIRE ALARM IN THE EXISTING ARENA UNTIL THE NEW FIRE ALARM SYSTEM IS FULLY FUNCTIONAL AND TESTED.
- 5 MAINTAIN POWER TO THE EXISTING ARENA DURING CONSTRUCTION TO ALLOW FOR FULL OPERATION DURING SKATING SEASON.
- 6 ALLOW FOR TRACING CIRCUITS AND RELOCATING SWITCHES THAT ARE CONNECTED TO EQUIPMENT THAT IS TO REMAIN. DEMOLISH ANY SWITCHES AND WIRING THAT ARE CONNECTED TO EQUIPMENT THAT IS DEMOLISHED.
- 7 COORDINATE RELOCATION WITH OWNER'S SECURITY PROVIDER. EXTEND ALL WIRING AS REQUIRED.
- 8 DISCONNECT ALL WIRING ASSOCIATED WITH THE KITCHEN EXHAUST HOOD.



1
2-E-100

ENLARGED POWER & SYSTEMS PLAN - DEMOLITION

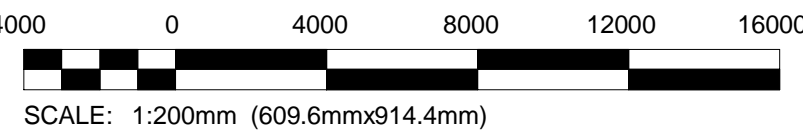
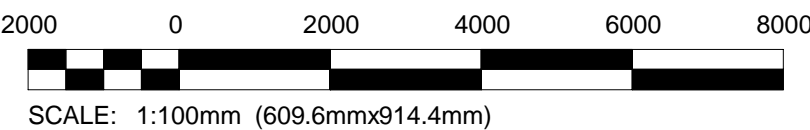
SCALE: 1 : 100



2
2-E-100

LEVEL 100 OVERALL PLAN

SCALE: 1 : 200



FOR TENDER ONLY
NOT TO BE USED FOR CONSTRUCTION

COPYRIGHT

Drawings and specifications, as instruments of service are the property of the architect, the copyright in the same being reserved to Verne Reimer Architecture Incorporated. No reproduction may be made without the permission of the architect and when made, must bear his name. All prints to be returned to the architect. The general contractor and/or project manager shall verify dimensions and data noted herein with conditions on the site and is held responsible for reporting any discrepancy to the architect for adjustment. Do not scale the drawings.

CONSULTANTS

KGS

GROUP

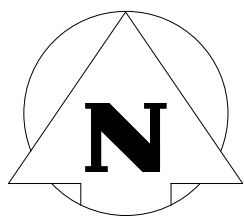
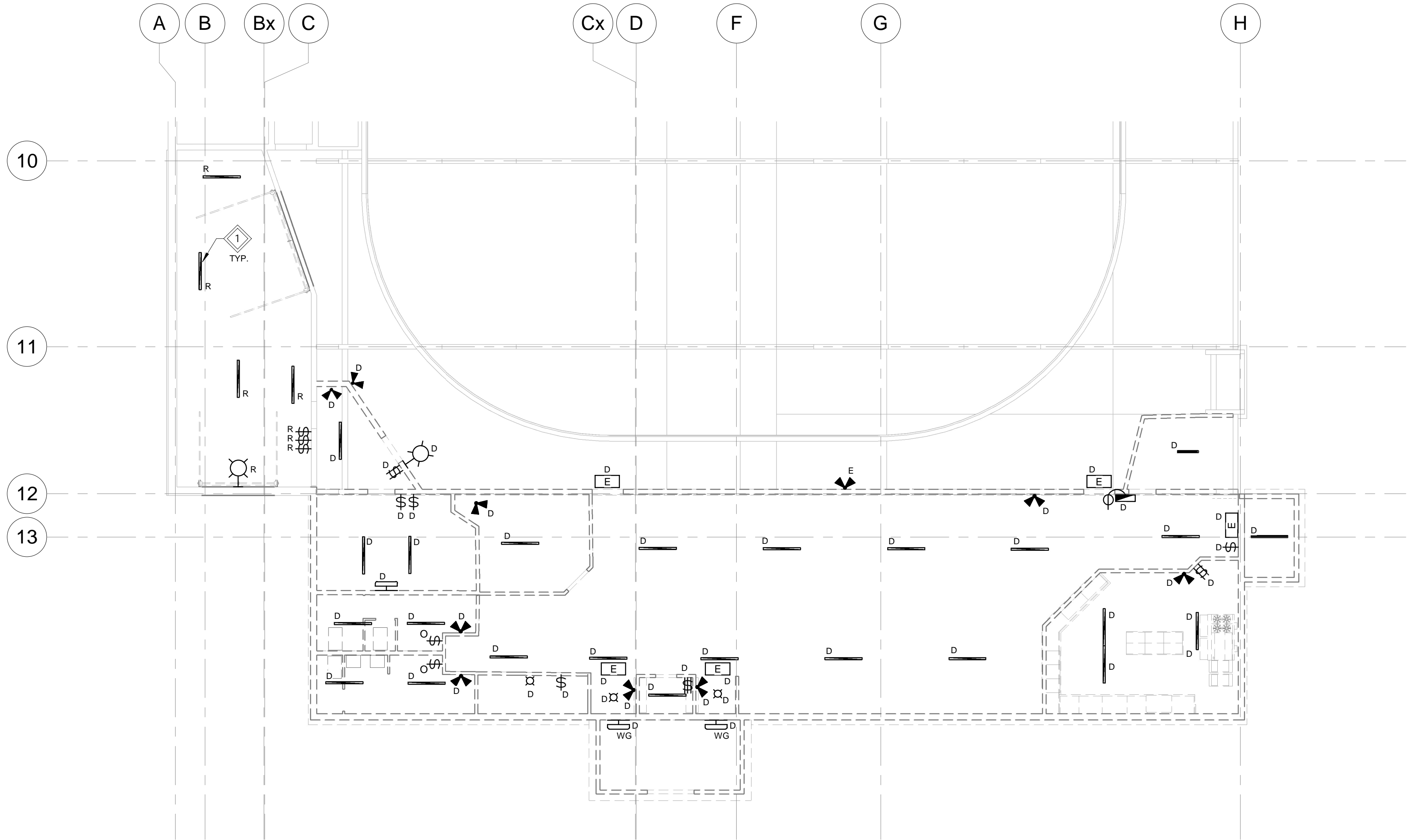
NOTES

GENERAL NOTES:

1. ITEMS DENOTE AS:
'D' - ARE EXISTING TO BE DEMOLISHED
'E' - ARE EXISTING TO BE MAINTAINED
'R' - ARE EXISTING TO BE RELOCATED

KEYNOTES

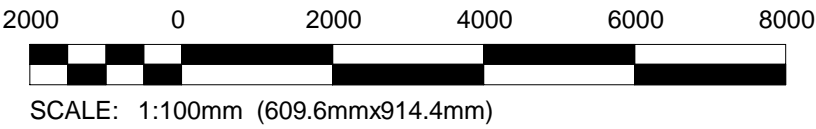
1 MAINTAIN AND RE-USE EXISTING LIGHTING CIRCUITS FOR RELOCATED LUMINAIRES.



1
2-E-101

ENLARGED LIGHTING PLAN - DEMOLITION

SCALE: 1 : 100



FOR TENDER ONLY
NOT TO BE USED FOR CONSTRUCTION

A	2026.06.03	ISSUED FOR TENDER/PERMIT
REV	DATE	DESCRIPTION

PROJECT NORTH

PERMIT / STAMP

OWNER
Owner

PROJECT NAME & ADDRESS
GRUNTHAL ARENA EXPANSION
GRUNTHAL, MB

TITLE
ELECTRICAL DEMOLITION
PLANS - LIGHTING
SCALE
PROJECT NUMBER
DRAWN BY

As indicated
25-1962-003
RAH

2-E-101

COPYRIGHT

Drawings and specifications, as instruments of service are the property of the architect, the copyright in the same being reserved to Verne Reimer Architecture Incorporated. No reproduction may be made without the permission of the architect and when made, must bear his name. All prints to be returned to the architect. The general contractor and/or project manager shall verify dimensions and data noted herein with conditions on the site and is held responsible for reporting any discrepancy to the architect for adjustment. Do not scale the drawings.

CONSULTANTS



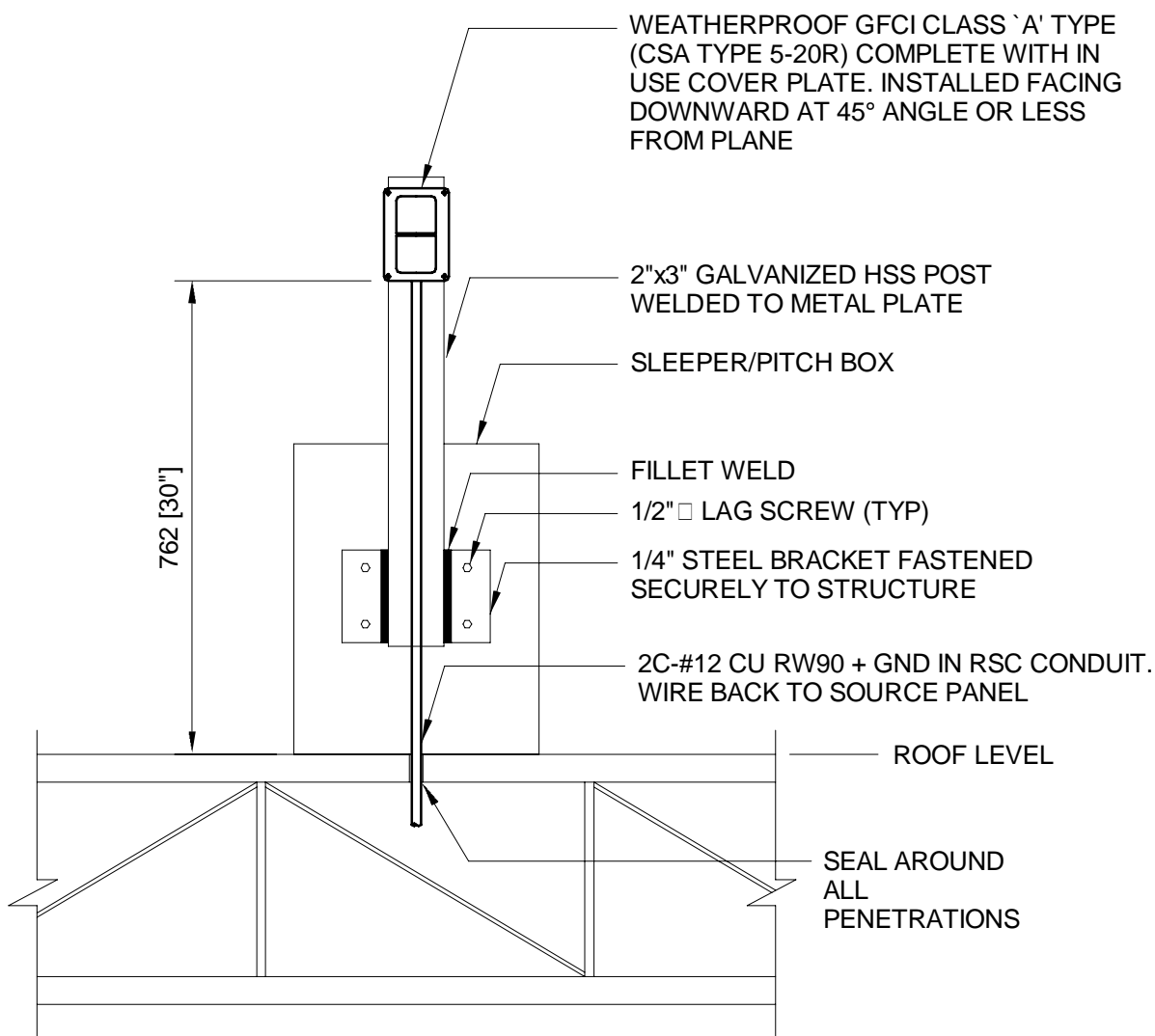
NOTES

GENERAL NOTES:

- ITEMS WITH A GREY LINEWEIGHT AND/OR DENOTED AS:
'E' - ARE EXISTING TO BE MAINTAINED
'RL' - ARE EXISTING AND RELOCATED
- REFER TO MECHANICAL EQUIPMENT SCHEDULE ON DRAWING 2-E-601 FOR MECHANICAL EQUIPMENT CIRCUITING.

KEYNOTES

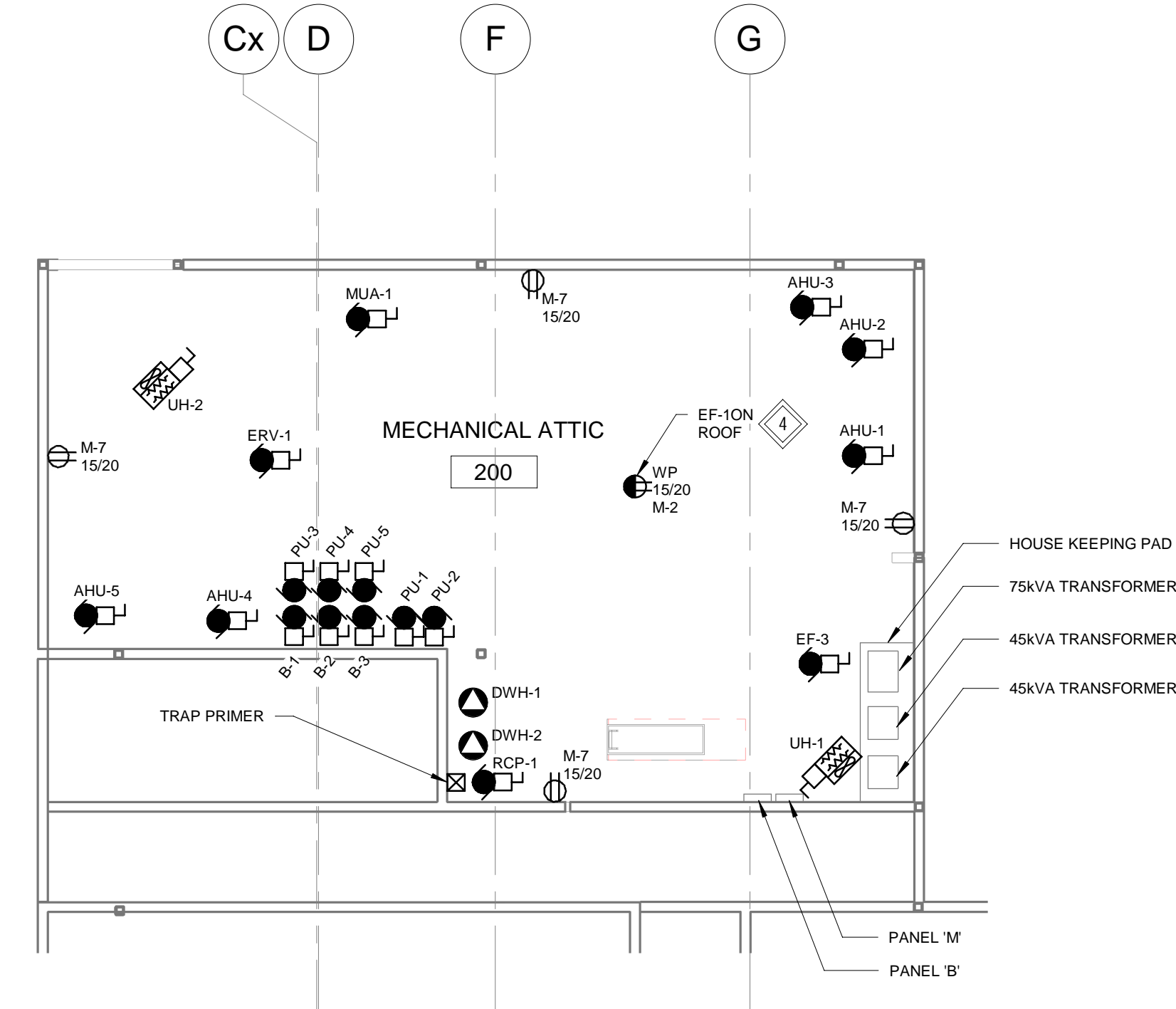
- RELOCATE EXISTING ARENA LIGHTING SWITCHES, DISCONNECT SWITCHES AND CONTACTORS. EXTEND EXISTING WIRING TO NEW LOCATION. RE-FEED FROM THE NEW 347/600V DISTRIBUTION.
- PROVIDE POWER TO POWERED PLUMBING FIXTURES. COORDINATE WITH MECHANICAL SHOP DRAWINGS FOR POWER REQUIREMENTS PRIOR TO ROUGH-IN.
- PROVIDE POWER CONNECTIONS TO TWO (2) DE-HUMIDIFIERS PROVIDED BY THE ICE PLANT MANUFACTURER. COORDINATE FINAL LOCATION AND POWER REQUIREMENTS WITH THE ICE PLANT MANUFACTURER DURING TENDER.
- EF-1 AND WEATHERPROOF RECEPTACLE ARE TO BE LOCATED ON ROOF OF BUILDING. REFER TO DETAIL 1 FOR ROOF MAINTENANCE RECEPTACLE INSTALLATION.
- PROVIDE POWER TO KITCHEN HOOD AND SUPPRESSION SYSTEM. PROVIDE ALL INTERLOCKS AS REQUIRED.
- RECONNECT EXISTING PANEL TO NEW PANEL A.



NOTE: REFER TO ARCHITECTURAL DRAWINGS FOR PTICH POCKET DETAILS.

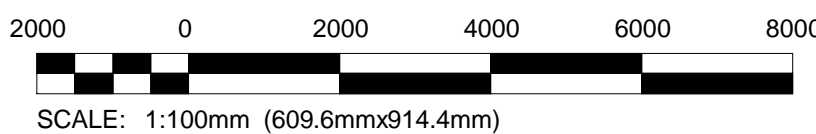
3 MECHANICAL ROOF TOP RECEPTACLE DETAIL

SCALE: N.T.S.

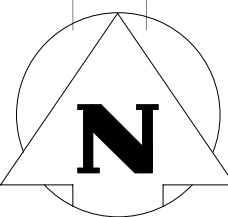
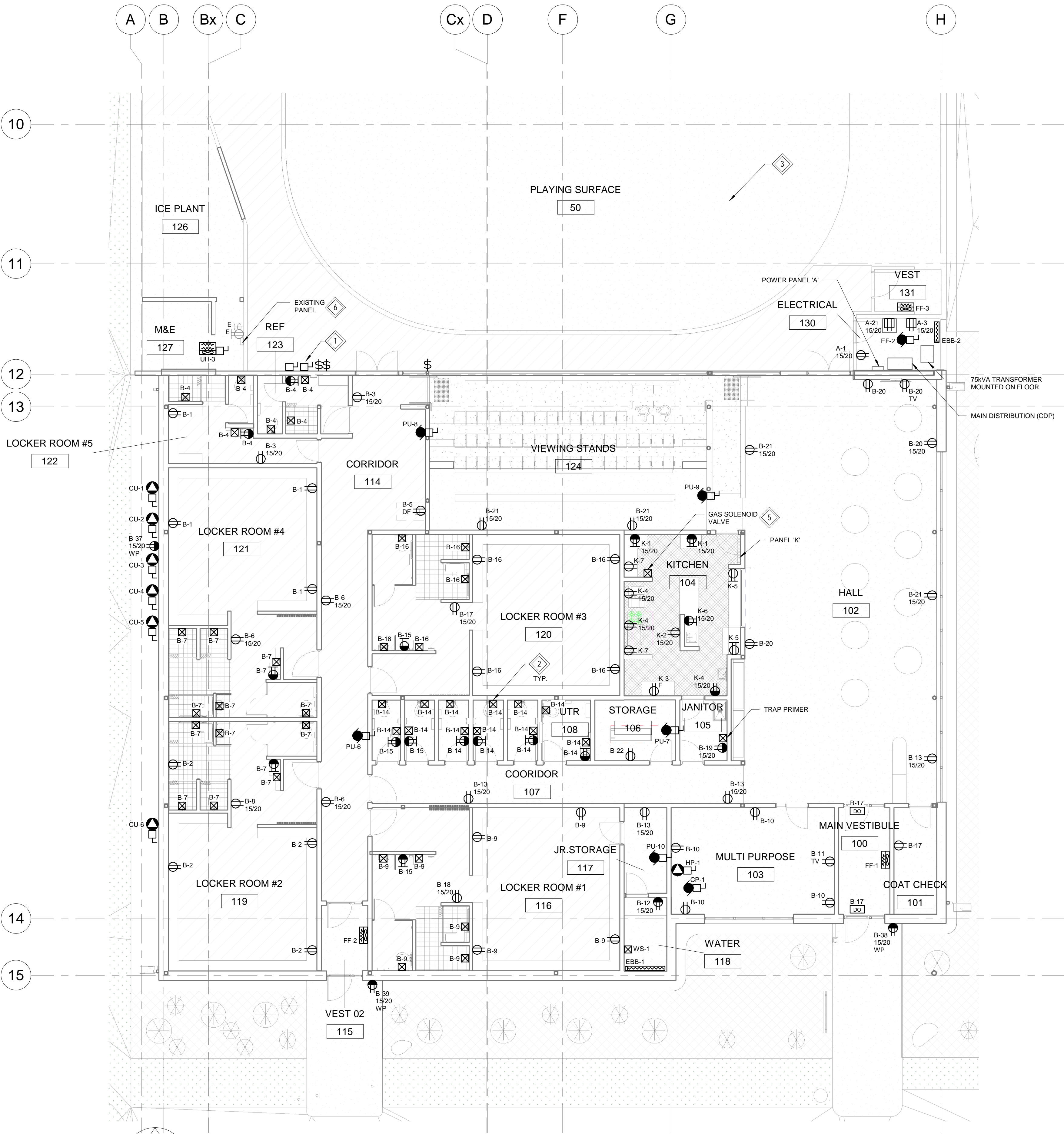


2 MEZZANINE PLAN - POWER

SCALE: 1 : 100



FOR TENDER ONLY
NOT TO BE USED FOR CONSTRUCTION



1 ENLARGED POWER PLAN - NEW

SCALE: 1 : 100

REV	DATE	DESCRIPTION
A	2026.06.03	ISSUED FOR TENDER/PERMIT
PROJECT NORTH		

PERMIT / STAMP

OWNER
Owner

PROJECT NAME & ADDRESS
GRUNTHAL ARENA EXPANSION
GRUNTHAL, MB

TITLE
ELECTRICAL NEW PLANS - POWER
SCALE
PROJECT NUMBER
DRAWN BY

As indicated
25-1962-003
RAH

2-E-200

GENERAL NOTES:

- ITEMS WITH A GREY LINEWEIGHT AND/OR DENOTED AS:
'E' - ARE EXISTING TO BE MAINTAINED
'RL' - ARE EXISTING AND RELOCATED
- COORDINATE ALL LUMINAIRE MOUNTING WITH ARCHITECTURAL, STRUCTURAL AND MECHANICAL PRIOR TO ROUGH-IN. WHERE CONFLICTS ARISE WITH OTHER SYSTEMS, COORDINATE WITH THE CONSULTANT PRIOR TO CHANGING THE LUMINAIRE LAYOUT.

KEYNOTES

- PROVIDE A LIGHTING CIRCUIT FOR BACKLIT SIGNAGE. COORDINATE POWER CONNECTION REQUIREMENTS WITH SIGNAGE MANUFACTURER.
- RECONNECT ALL EXISTING EMERGENCY REMOTE HEADS TO NEW EMERGENCY LIGHTING BATTERY BANK IN ELECTRICAL ROOM. PROVIDE ADDITIONAL ZONE SENSING RELAYS AS REQUIRED.

A	2026.06.03	ISSUED FOR TENDER/PERMIT
REV	DATE	DESCRIPTION
PROJECT NORTH		

PERMIT / STAMP

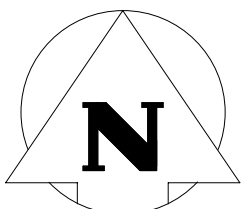
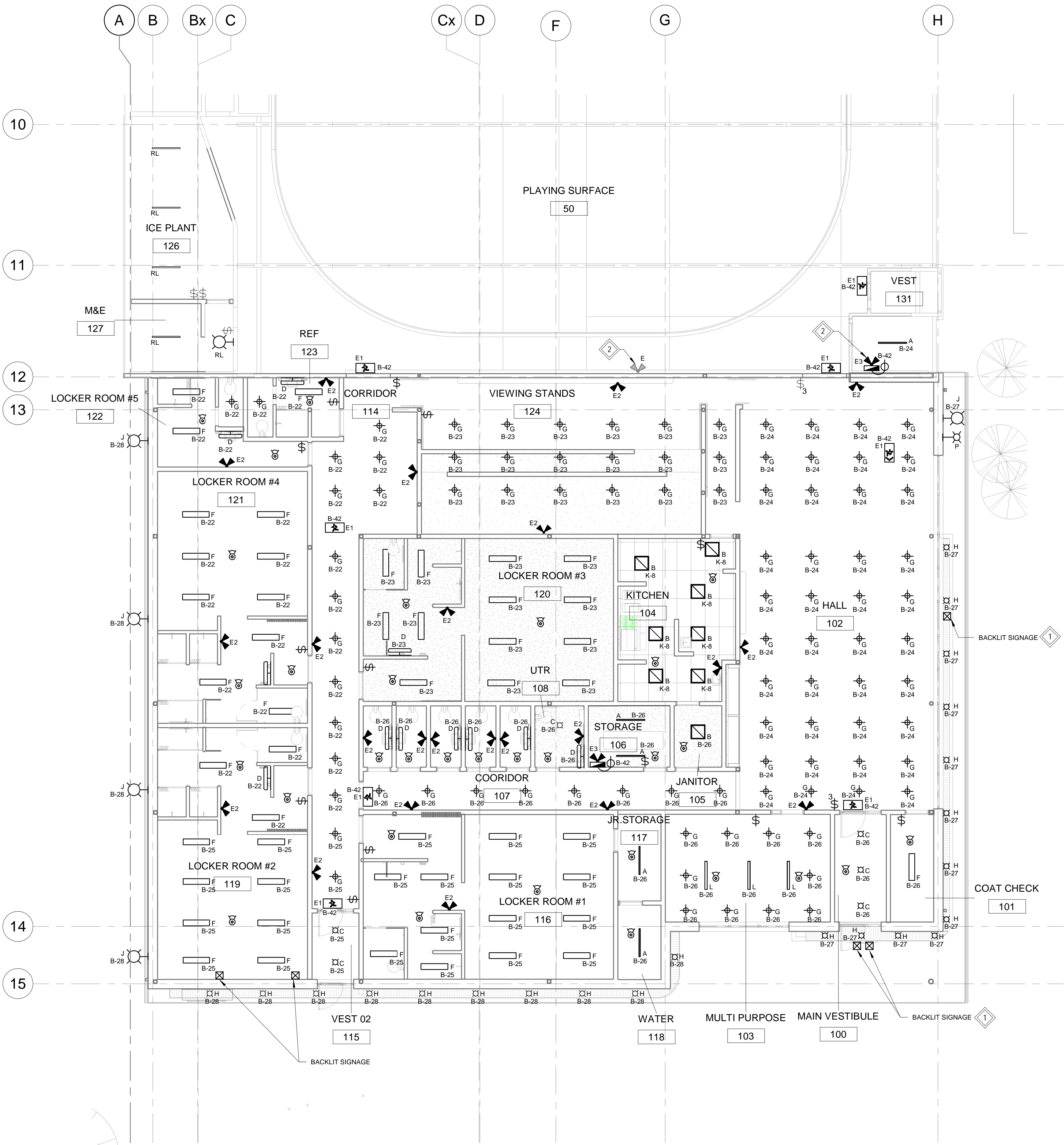
OWNER
Owner

PROJECT NAME & ADDRESS
GRUNTHAL ARENA EXPANSION
GRUNTHAL, MB

TITLE
ELECTRICAL NEW PLANS -
LIGHTING
SCALE
PROJECT NUMBER
DRAWN BY

As indicated
25-1962-003
RAH

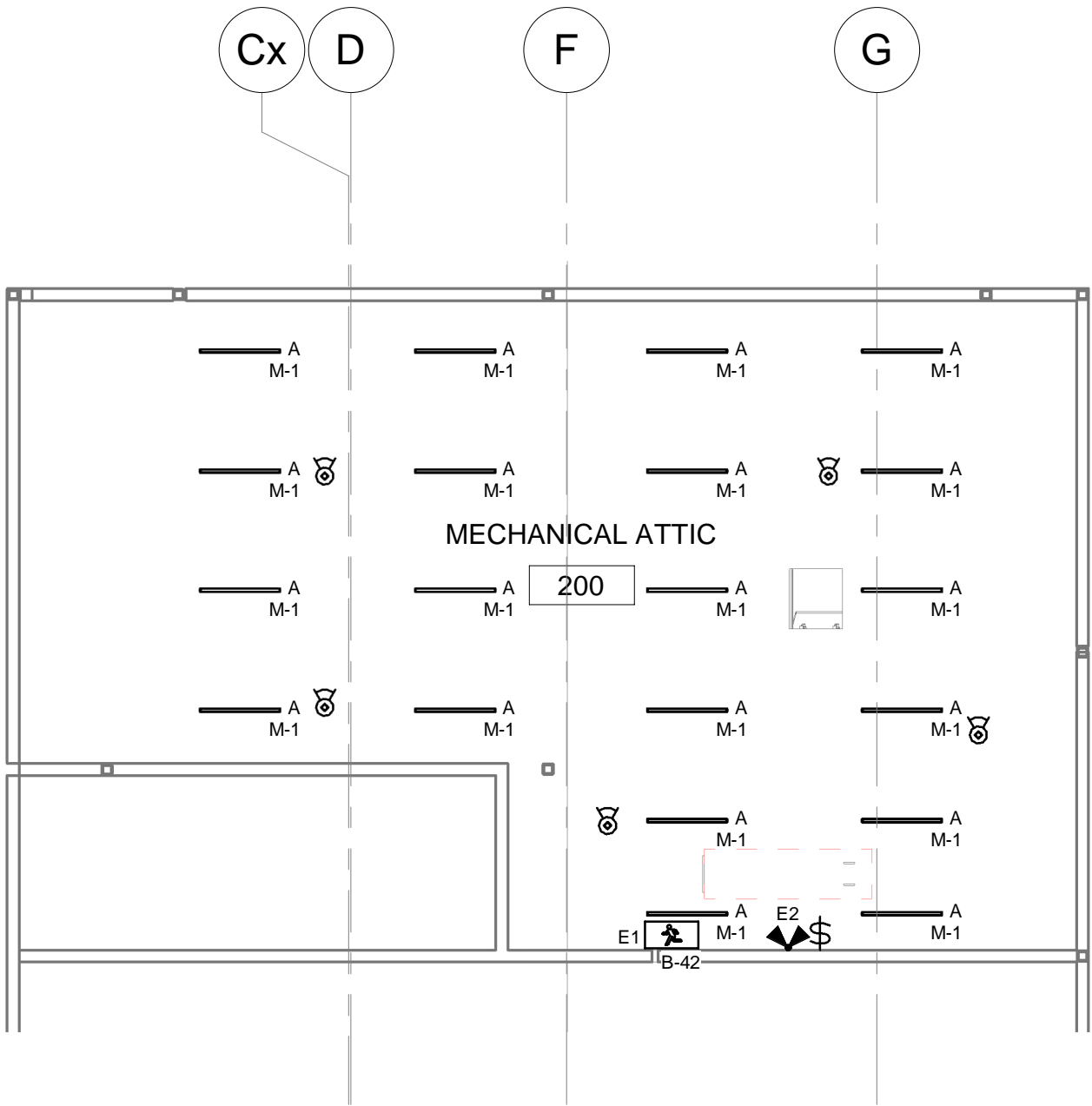
2-E-300



1
2-E-300

ENLARGED LIGHTING PLAN - NEW

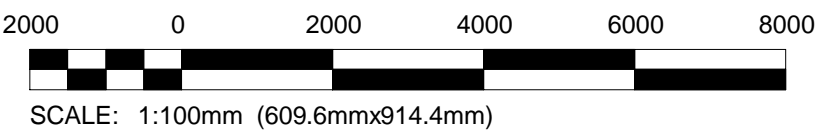
SCALE: 1 : 100



2
2-E-300

MEZZANINE PLAN - LIGHTING

SCALE: 1 : 100



FOR TENDER ONLY
NOT TO BE USED FOR CONSTRUCTION

COPYRIGHT

Drawings and specifications, as instruments of service are the property of the architect, the copyright in the same being reserved to Verne Reimer Architecture Incorporated. No reproduction may be made without the permission of the architect and when made, must bear his name. All prints to be returned to the architect. The general contractor and/or project manager shall verify dimensions and data noted herein with conditions on the site and is held responsible for reporting any discrepancy to the architect for adjustment. Do not scale the drawings.

CONSULTANTS



NOTES

GENERAL NOTES:

- ITEMS WITH A GREY LINEWEIGHT AND/OR DENOTED AS:
'E' - ARE EXISTING TO BE MAINTAINED
'RL' - ARE EXISTING AND RELOCATED
- ROUTE ALL CABLING FOR VOICE AND DATA BACK TO WALL MOUNTED I.T. RACK IN ELECTRICAL ROOM 130 C/W TERMINATIONS.

KEYNOTES

- PROVIDE A SMOKE DETECTOR OR DUCT SMOKE DETECTOR AND AN ADDRESSABLE RELAY MODULE FOR EACH FIRE/SMOKE DAMPER. ADDRESSABLE RELAY TO RELEASE THE FIRE/SMOKE DAMPER WHEN THE SMOKE OR DUCT SMOKE DETECTORS DETECT SMOKE. ALL SMOKE DAMPERS TO SHUT WHEN A FIRE IS DETECTED ON THE FLOOR. REFER TO MECHANICAL SEQUENCE OF OPERATION FOR ADDITIONAL DETAILS. PROVIDE 120V POWER TO THE DAMPER AS REQUIRED. INSTALL AS PER CANULC SS24. COORDINATE FINAL LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- COORDINATE FINAL QUANTITY AND LOCATION OF ALL SPRINKLER MONITORING DEVICES WITH SPRINKLER CONTRACTOR DURING TENDER.
- THE ELECTRICAL CONTRACTOR SHALL CONNECT THE KITCHEN EXHAUST HOOD AND ASSOCIATED FIRE SUPPRESSION SYSTEM AS REQUIRED TO MEET ALL CODES. PROVIDE APPROVED SHUT-OFFS FOR ALL NEW GAS AND ELECTRICAL EQUIPMENT LOCATED BENEATH THE HOOD. LOCATE EMERGENCY STOP PUSH BUTTON AS CLOSE AS POSSIBLE TO THE HOOD IN AN ALWAYS ACCESSIBLE LOCATION AS PER CODE.
- PROVIDE A COMBINATION CARBON MONOXIDE / HEAT DETECTOR.

A	2026.06.03	ISSUED FOR TENDER/PERMIT
REV	DATE	DESCRIPTION

PROJECT NORTH



PERMIT / STAMP

OWNER

Owner

PROJECT NAME & ADDRESS

GRUNTHAL ARENA EXPANSION
GRUNTHAL, MB

TITLE

ELECTRICAL NEW PLANS -
SYSTEMS

SCALE

PROJECT NUMBER

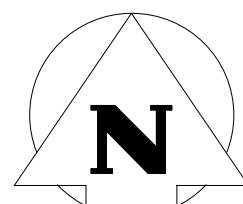
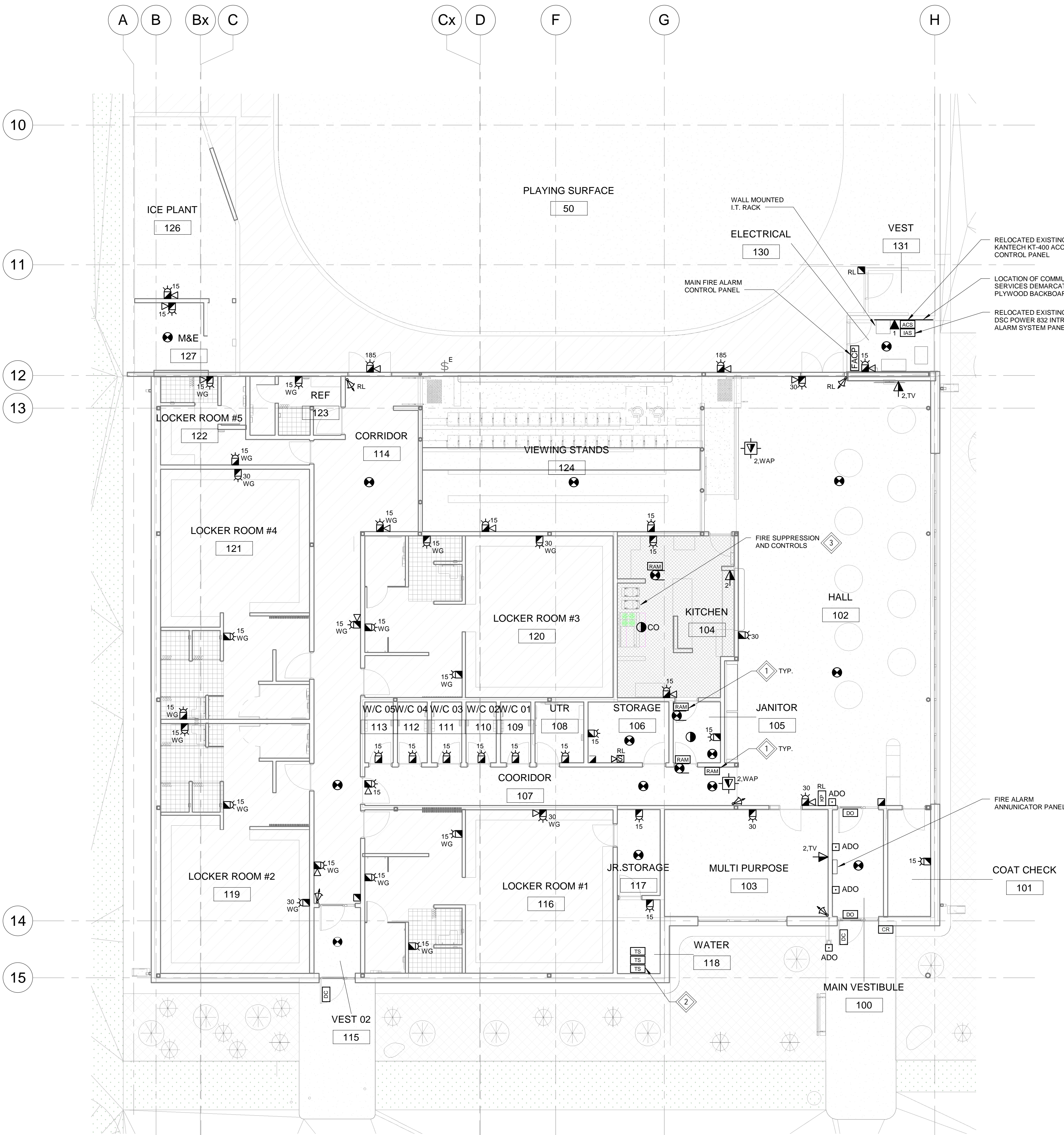
DRAWN BY

As indicated

25-1962-003

RAH

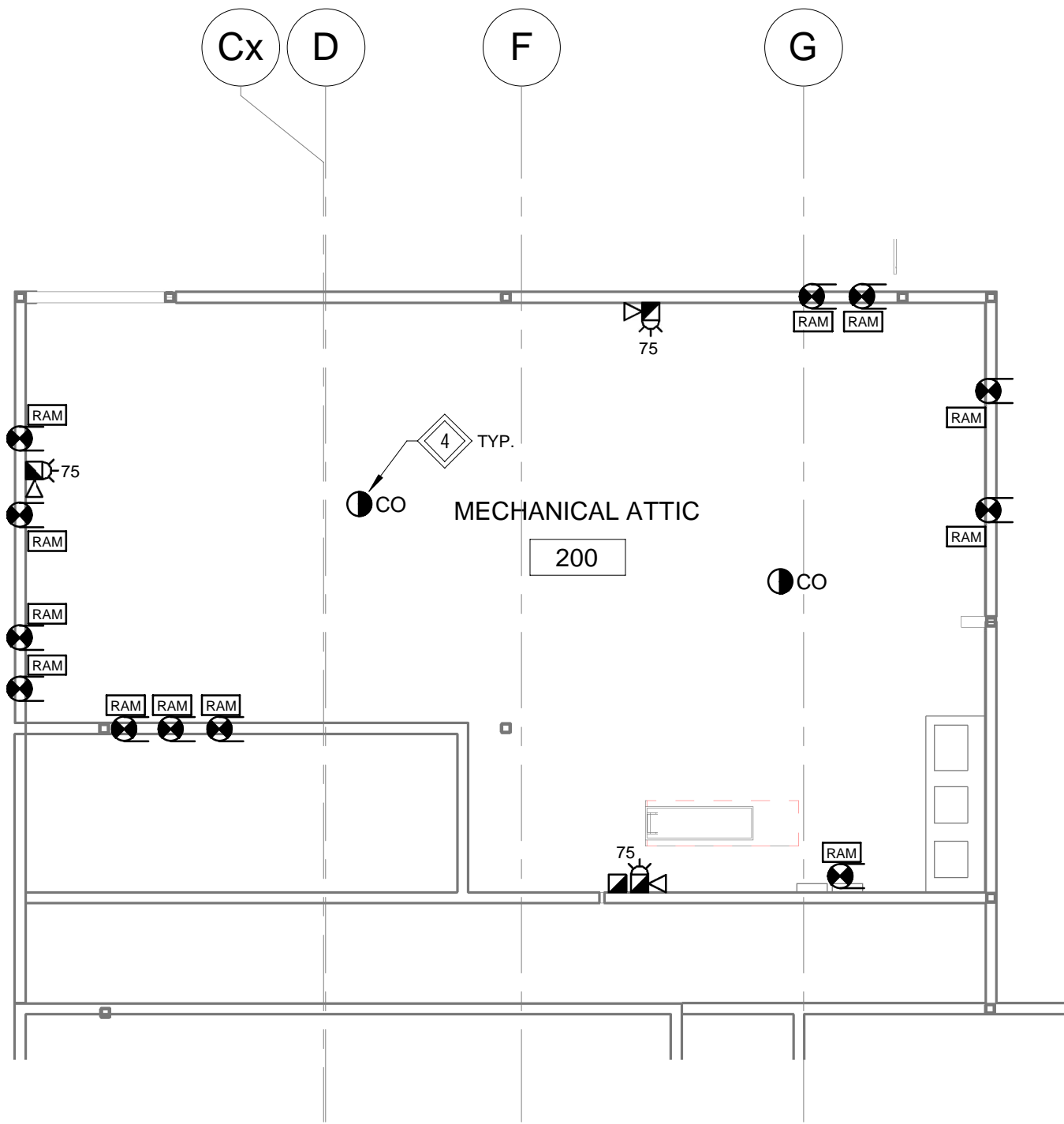
2-E-400



2
2-E-400

ENLARGED SYSTEMS PLAN - NEW

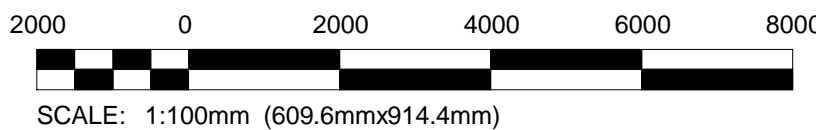
SCALE: 1 : 100



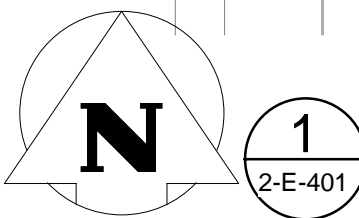
1
2-E-400

MEZZANINE PLAN - SYSTEMS

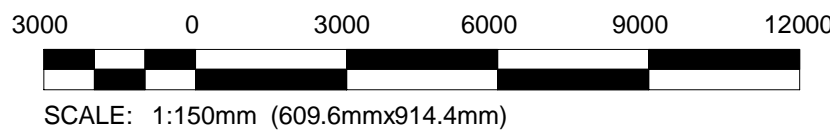
SCALE: 1 : 100



FOR TENDER ONLY
NOT TO BE USED FOR CONSTRUCTION




SCALE:1 : 150



1. ITEMS WITH A GREY LINEWEIGHT AND/OR DENOTED AS:
'D' - ARE TO BE DEMOLISHED
'E' - ARE EXISTING TO BE MAINTAINED
'R' - ARE EXISTING TO BE RELOCATED
'RL' - RELOCATED

- 1 REPLACE ALL EXISTING RED EXIT SIGNS WITH NEW GREEN PICTOGRAM EXIT SIGNS. RECONNECT NEW EXIT SIGNS TO EXISTING WIRING. COORDINATE VOLTAGE WITH EQUIPMENT ON SITE PRIOR TO ORDERING.
- 2 PROVIDE NEW NOTIFICATION DEVICES THROUGHOUT THE EXISTING AREA AND CONNECT TO THE NEW FIRE ALARM PANEL. DEMOLISH ALL EXISTING BELLS AND REMOVE WIRING BACK TO SOURCE.
- 3 RELOCATE EXISTING MANUAL STATION TO NEW VESTIBULE DOOR. EXTEND WIRING AND CONDUIT AS REQUIRED.
- 4 RECONNECT EXISTING MANUAL STATIONS AND SMOKE/HEAT DETECTORS TO THE NEW FIRE ALARM SYSTEM. EXTEND WIRING AND CONDUIT AS REQUIRED. PROVIDE CONVENTIONAL LOOP MODULES AS REQUIRED TO CONNECT EXISTING DEVICES TO THE NEW FIRE ALARM SYSTEM.
- 5 CONNECT FIRE ALARM SHUTDOWN SIGNAL TO THE EXISTING SOUND SYSTEM. SOUND SYSTEM IS TO BE SHUT DOWN ON FIRE ALARM.

PROJECT NORTH 

PERMIT / STAMP

Owner

PROJECT NAME & ADDRESS
GRUNTHAL ARENA EXPANSION
GRUNTHAL, MB

TITLE	
ELECTRICAL EXISTING ARENA NEW PLAN - SYSTEMS	
SCALE	As indicated
PROJECT NUMBER	25-1962-003
DRAWN BY	RAH

FOR TENDER ONLY
NOT TO BE USED FOR CONSTRUCTION

2-E-401

A	2026.06.03	ISSUED FOR TENDER/PERMIT
REV	DATE	DESCRIPTION

PROJECT NORTH

PERMIT / STAMP

OWNER

Owner

PROJECT NAME & ADDRESS

GRUNTHAL ARENA EXPANSION
GRUNTHAL, MB

TITLE

ELECTRICAL SINGLE LINE
DIAGRAM - DEMOLITION

SCALE
PROJECT NUMBER
DRAWN BY

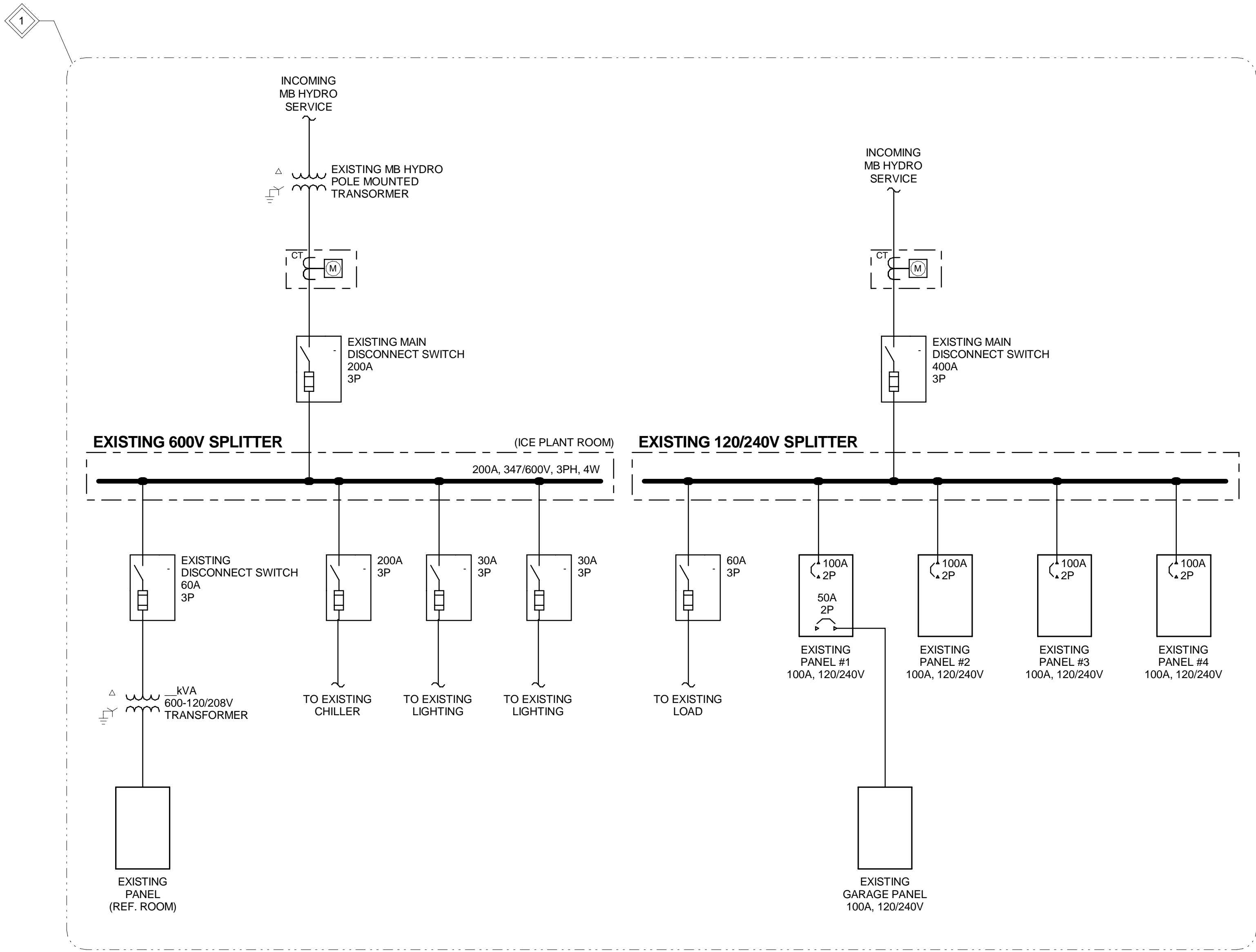
N.T.S.
25-1962-003
RAH

FOR TENDER ONLY
NOT TO BE USED FOR CONSTRUCTION

2-E-500

KEYNOTES:

1 EXISTING ELECTRICAL DISTRIBUTION TO BE
DEMOLISHED. MAINTAIN EXISTING ARENA CIRCUITS
DURING CONSTRUCTION.



1 PH2 - SINGLE LINE DIAGRAM - DEMOLITION
SCALE: N.T.S.

COPYRIGHT

Drawings and specifications, as instruments of service are the property of the architect, the copyright in the same being reserved to Verne Reimer Architecture Incorporated. No reproduction may be made without the permission of the architect and when made, must bear his name. All prints to be returned to the architect. The general contractor and/or project manager shall verify dimensions and data noted herein with conditions on the site and is held responsible for reporting any discrepancy to the architect for adjustment. Do not scale the drawings.

CONSULTANTS



NOTES

KEYNOTES:

- 1 RECONNECT EXISTING TRANSFORMER TO THE NEW DISTRIBUTION. CONFIRM EXACT TRANSFORMER SIZE PRIOR TO ORDERING EQUIPMENT.
- 2 RECONNECT EXISTING PANEL TO THE NEW PANEL A.

BURIED CABLE LAMACOID LABEL

UNDERGROUND CONDUCTORS

CIRCUIT I.D. MAIN

YEAR INSTALLED 2026

DIAGRAM D10 DETAIL 2 TABLE 2

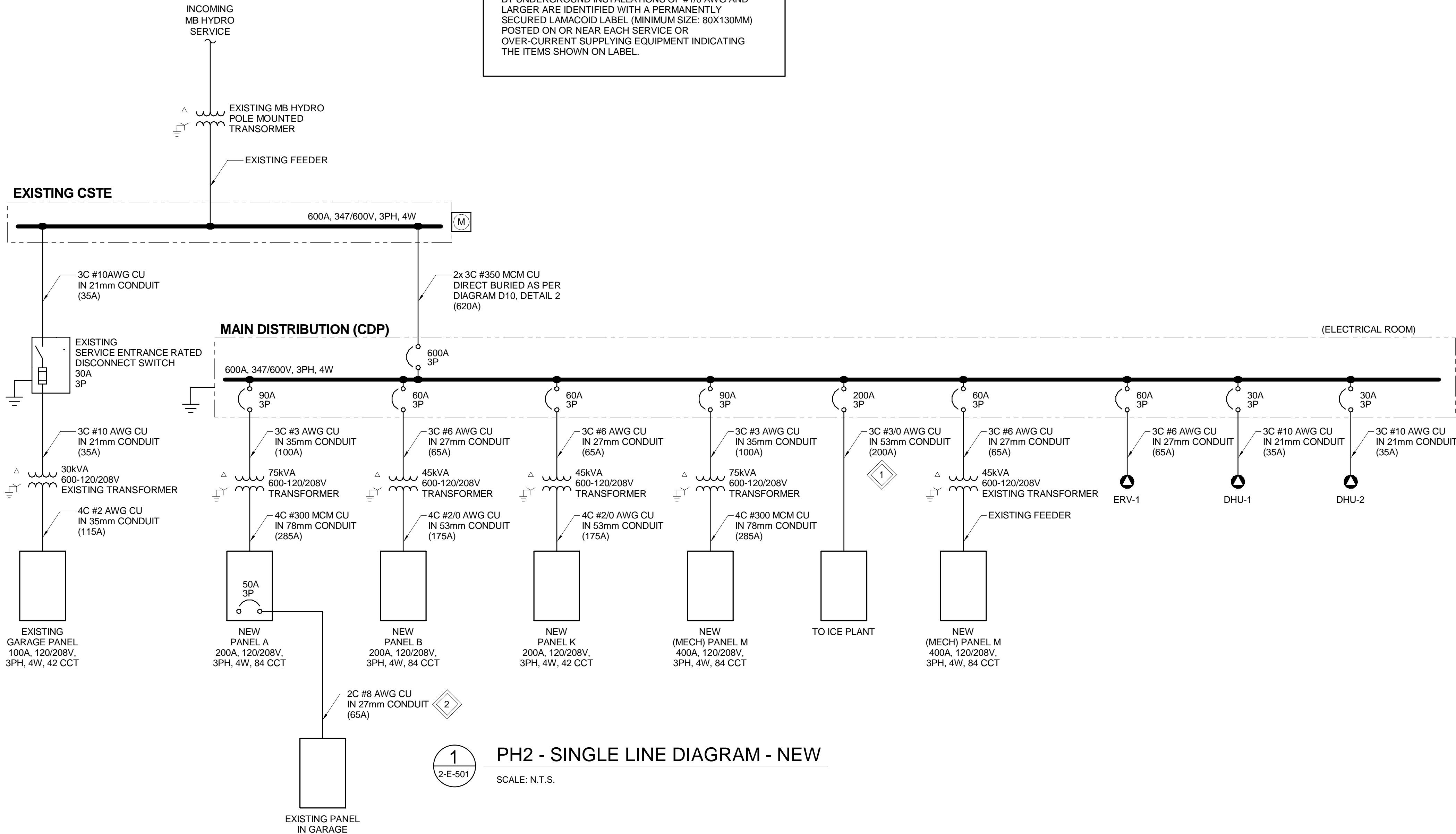
SIZE/TYPE OF CONDUCTOR 2x 3C #350 MCM CU

AMPACITY 620A MAX. OVERCURRENT 600A

ALL UNDERGROUND CONDUCTOR INSTALLATIONS IDENTIFIED WITH A LABEL INDICATING THE CODE YEAR TO WHICH THE INSTALLATION WAS DESIGNED, INCLUDING THE UNDERGROUND DETAIL AND TABLE UTILIZED TO ACHIEVE THE RATED AMPACITY OF THE IEEE CALCULATION. MARKING OF EQUIPMENT SERVICED BY UNDERGROUND INSTALLATIONS OF #1/0 AWG AND LARGER ARE IDENTIFIED WITH A PERMANENTLY SECURED LAMACOID LABEL (MINIMUM SIZE: 80X130MM) POSTED ON OR NEAR EACH SERVICE OR OVER-CURRENT SUPPLYING EQUIPMENT INDICATING THE ITEMS SHOWN ON LABEL.

LOAD CALCULATION

LIGHTING LOAD	= 1kW
MISC. RECEPTACLE LOAD	= 1kW
ELECTRIC BUILDING HEAT	= 2kW
HOT WATER TANKS	= 1kW
MECHANICAL LOADS	= 2kW
EXISTING BUILDING LOADS	= 30kW
FUTURE ADDITION LOADS	= 307kW
TOTAL	= 344kW



PH2 - SINGLE LINE DIAGRAM - NEW

SCALE: N.T.S.

A	2026.06.03	ISSUED FOR TENDER/PERMIT
REV	DATE	DESCRIPTION

PROJECT NORTH



PERMIT / STAMP

OWNER

Owner

PROJECT NAME & ADDRESS

GRUNTHAL ARENA EXPANSION
GRUNTHAL, MB

TITLE

ELECTRICAL SINGLE LINE
DIAGRAM - NEW

SCALE

PROJECT NUMBER

DRAWN BY

N.T.S.

25-1962-003

RAH

FOR TENDER ONLY
NOT TO BE USED FOR CONSTRUCTION

2-E-501

POWER PACK SCHEDULE		
TAG	DESCRIPTION	MANUFACTURER
PP1	nLIGHT ENABLED 16A POWER PACK C/W 0-10V DIMMING	nLIGHT: nPP16-D-EFP

LIGHTING CONTROLS SCHEDULE		
TAG	DESCRIPTION	MANUFACTURER
LV1	ON/OFF AND DIMMING CONTROL SWITCH	nLIGHT: nPODM-DX-WH
OC1	CEILING MOUNTED, nLIGHT CAPABILITY, DUAL TECHNOLOGY OCCUPANCY SENSOR	nLIGHT: nRM-PDT-9

LUMINAIRE SCHEDULE															
TYPE	DESCRIPTION	MANUFACT.	PART/MODEL #	MOUNTING				QTY PER FIXTURE	LAMPS			POWER		NOTES	
				CEILING	WALL	RECESSED	SURFACE		TYPE	COLOR TEMP (°K)	LUMENS (LM)	VOLT. (V)	WATTS PER FIXTURE (W)		
A	4' LED STRIP LIGHT	LITHONIA	ZL1N-L48-5000LM-FST-120-40K-80CRI-WH	X	.	.	.	X	1	LED	4000	4584	120	34	.
B	2' X 2' LED RECESSED FLAT PANEL LUMINAIRE C/W DIMMING TO 1%	LITHONIA	CPX-2X4-6000LM-80CRI-40K-SWL-MIN1-ZT-MVOLT	X	.	x	.	.	1	LED	4000	6699	120	54	.
C	6" LED DOWNLIGHT	LITHONIA	LDN6 40/20 L06 AR LSS MVOLT GZ1	X	.	x	.	.	1	LED	4000	2006	120	23	.
D	4' WALL MOUNTED VANITY LED LUMINAIRE C/W SWITCHABLE COLOR TEMPERATURE AND nLIGHT ENABLED.	LITHONIA	FMVCSLS-48IN-MVOLT-30K35K40K-90CRI	.	x	.	x	.	1	LED	4000	3200	120	35	.
F	4' LED WRAPAROUND LUMINAIRE	LITHONIA	FMLWL-48-8-40-MVOLT	X	.	.	X	.	1	LED	4000	4500	120	42	.
G	6" LED CYLINDER	LITHONIA	LDN6CYL-40/-30-L06-AR-LSS-MVOLT-GZ1-ACC	X	.	X	.	.	1	LED	4000	3021	120	35	.
H	4" LED WET LOCATION RATED DOWNLIGHT	JUNO	WF4-SWW5-90CRI-MW	X	.	.	.	X	1	LED	4000	742	120	9	.
J	EXTERIOR WALL SCONCE	LITHONIA	WPX1-LED-P2-40K-MVOLT	.	X	.	X	.	1	LED	4000	2912	120	24	.
K	EXTERIOR "SLEEK" LED POLE-MOUNTED LUMINAIRE RATED FOR -40°C AMBIENT TEMP., TYPE 3 MED. DIST. C/W ROUND POLE MOUNT, DIE-CAST ALUMINUM HOUSING, ACRYLIC LENS AND BLACK FINISH.	LITHONIA	DSX2-LED-P2-40K-80CRI-T5W-MVOLT-RPA-PER-DBBXD DLL127F1.5JU	X	.	.	.	X	1	LED	4000	26448	120	179	3, 4
L	4' SUSPENDED DIRECT LED LINEAR LUMINAIRE, ALUMINUM HOUSING, WHITE FINISH	MARK LIGHTING	S4PD-LLP-4FT-MSL8-80CRI-40K-1000LMF-SCT-DARK- FLL-120-F2/144A-RDCY	X	.	.	X	.	1	LED	4000	.	120	35	.
NOTES: 1. COORDINATE FINAL LUMINAIRE FINISHES WITH ARCHITECT PRIOR TO ORDERING. 2. COORDINATE FINAL LINEAR LED LENGTH OF LUMINAIRE WITH ARCHITECTURAL DRAWINGS PRIOR TO ORDERING. 3. POST MOUNTED LUMINAIRES "N" TO BE C/W 7260mm, 5" ROUND STEEL POLE AS MANUFACTURED BY "PRAIRIE POLE CAT. #5RS-24-SW-0". 4. LIGHT STANDARD TO BE C/W PHOTOCELL.															

EMERGENCY LIGHTING SCHEDULE															
TYPE	DESCRIPTION	MANUFACT.	PART/MODEL #	MOUNTING					LAMPS			POWER		NOTES	
				CEILING	WALL	RECESSED	SURFACE	SUSPENDED	QTY PER FIXTURE	TYPE	COLOR TEMP (°K)	LUMENS (LM)	VOLTAGE (V)		WATTS PER FIXTURE (W)
E1	STEEL WHITE LED EXIT SIGN, UNIVERSAL MOUNT, OPTIONAL SINGLE/DOUBLE/UNIVERSAL FACE, UNIVERSAL DC BACKUP VOLTAGE C/W ALL REQUIRED INSTALLATION AND MOUNTING HARDWARE.	AIMLITE	GREEN RUNNING MAN: RPST-U-M-WHT-UNVDC	X	X	.	X	.	1	LED	N/A	N/A	120	1.9	.
E2	DECORATIVE WHITE DIE CAST METAL REMOTE HEAD, SURFACE MOUNT WITH TILT AND SWIVEL CAPABILITIES, 6VDC-12VDC OPERATIONAL, LED MR16 LAMP, DOUBLE HEAD CONFIGURATION	AIMLITE	RMMB-2-12-24-7W-LA-WHT	X	X	.	X	.	1	LED	N/A	N/A	120	5	.
E3	STEEL WHITE BATTERY UNIT, OPTIONAL CEILING/SIDE MOUNT, 12VDC OUTPUT, 360W BATTERY, DIE CAST METAL LED MR16 LAMP, DOUBLE HEAD CONFIGURATION, AC TERMINAL BLOCK, DC TERMINAL BLOCK, MOUNTING SHELF (ORDERED SEPARATELY), TWIST LOCK PLUG, AND EXTERNAL PUSH BUTTON TEST SWITCH	AIMLITE	EBST24-360-2MB7WLA-WHT-ACT-DCT-TLP357V	X	X	.	X	.	1	LED	N/A	N/A	120	360	.
EZ1	EXTERNAL ZONE SENSING CONTROL PANEL, WITH 6-ZONE SENSING, ZONE TEST SWITCH AND ZONE PILOT LIGHT	AIMLITE	ZNSC2-6Z-30ACGY04	.	X	.	X	.	N/A	N/A	N/A	N/A	120	N/A	.
NOTES:															
1. PROVIDE ALL REQUIRED ZONE SENSING RELAYS AS REQUIRED TO TURN ON EMERGENCY LIGHTING WHEN THE LOCAL LIGHTING CIRCUITS LOOSE POWER.															

COPYRIGHT

Drawings and specifications, as instruments of service are the property of the architect, the copyright in the same being reserved to Verne Reimer Architecture Incorporated. No reproduction may be made without the permission of the architect and when made, must bear his name. All prints to be returned to the architect. The general contractor and/or project manager shall verify dimensions and data noted herein with conditions on the site and is held responsible for reporting any discrepancy to the architect for adjustment. Do not scale the drawings.

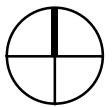
CONSULTANTS



NOTES

A	2026.06.03	ISSUED FOR TENDER/PERMIT
REV	DATE	DESCRIPTION

PROJECT NORTH



PERMIT / STAMP

OWNER
Owner

PROJECT NAME & ADDRESS
GRUNTHAL ARENA EXPANSION
GRUNTHAL, MB

TITLE
ELECTRICAL LUMINAIRE
SCHEDULES
SCALE
PROJECT NUMBER
DRAWN BY


N.T.S.
25-1962-003
RAH

FOR TENDER ONLY
NOT TO BE USED FOR CONSTRUCTION

2-E-600

A	2026.06.03	ISSUED FOR TENDER/PERMIT
REV	DATE	DESCRIPTION

PROJECT NORTH



COPYRIGHT

Drawings and specifications, as instruments of service are the property of the architect, the copyright in the same being reserved to Verne Reimer Architecture Incorporated. No reproduction may be made without the permission of the architect and when made, must bear his name. All prints to be returned to the architect. The general contractor and/or project manager shall verify dimensions and data noted herein with conditions on the site and is held responsible for reporting any discrepancy to the architect for adjustment. Do not scale the drawings.

CONSULTANTS

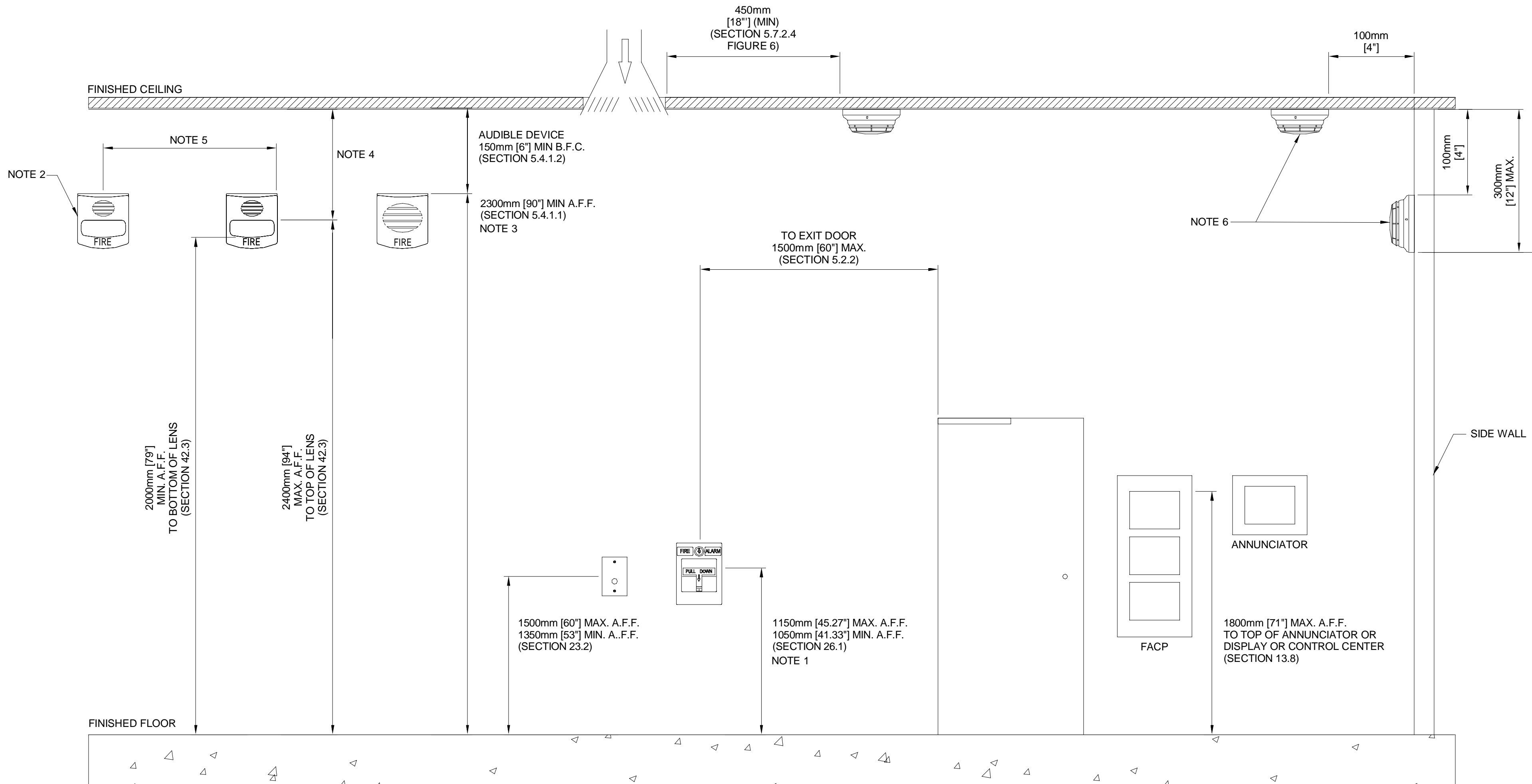
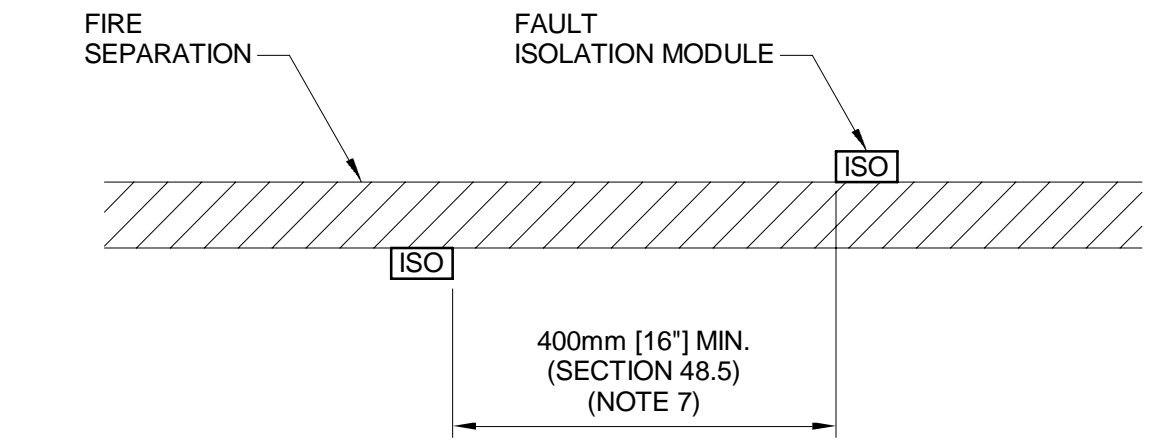
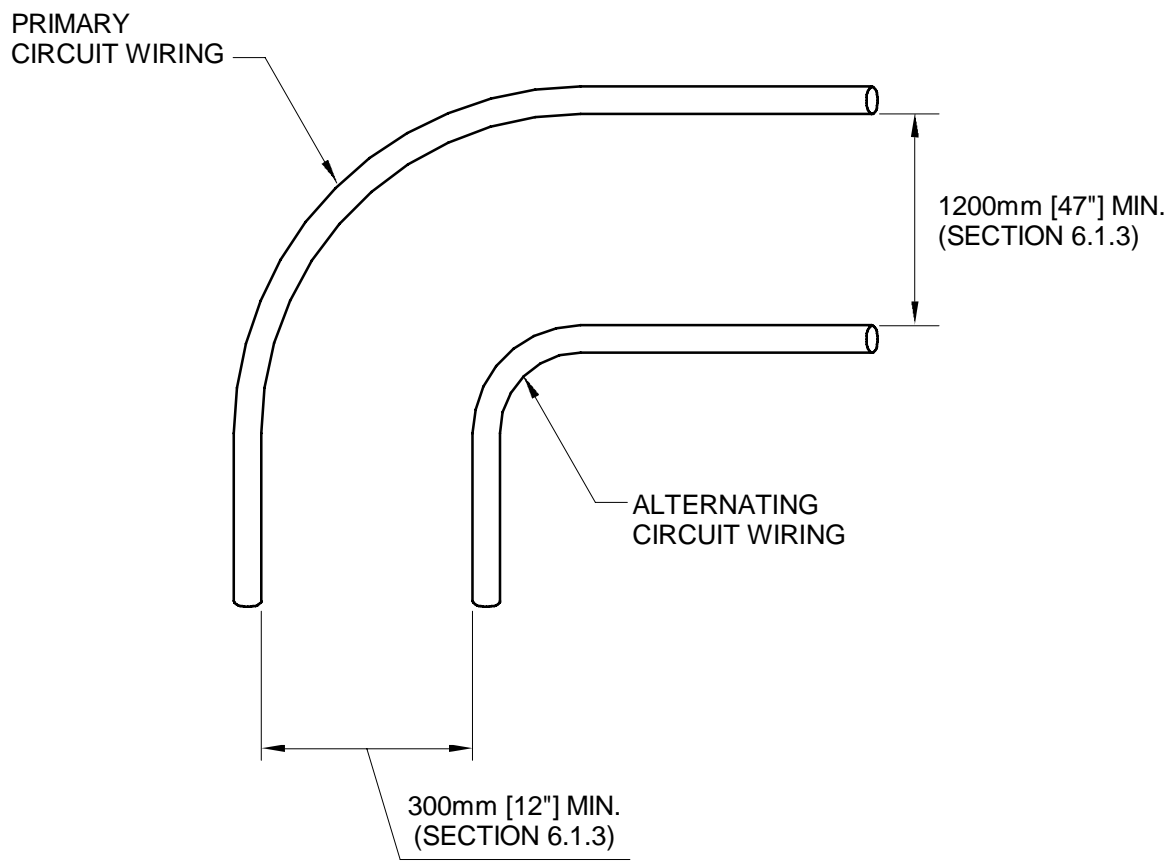
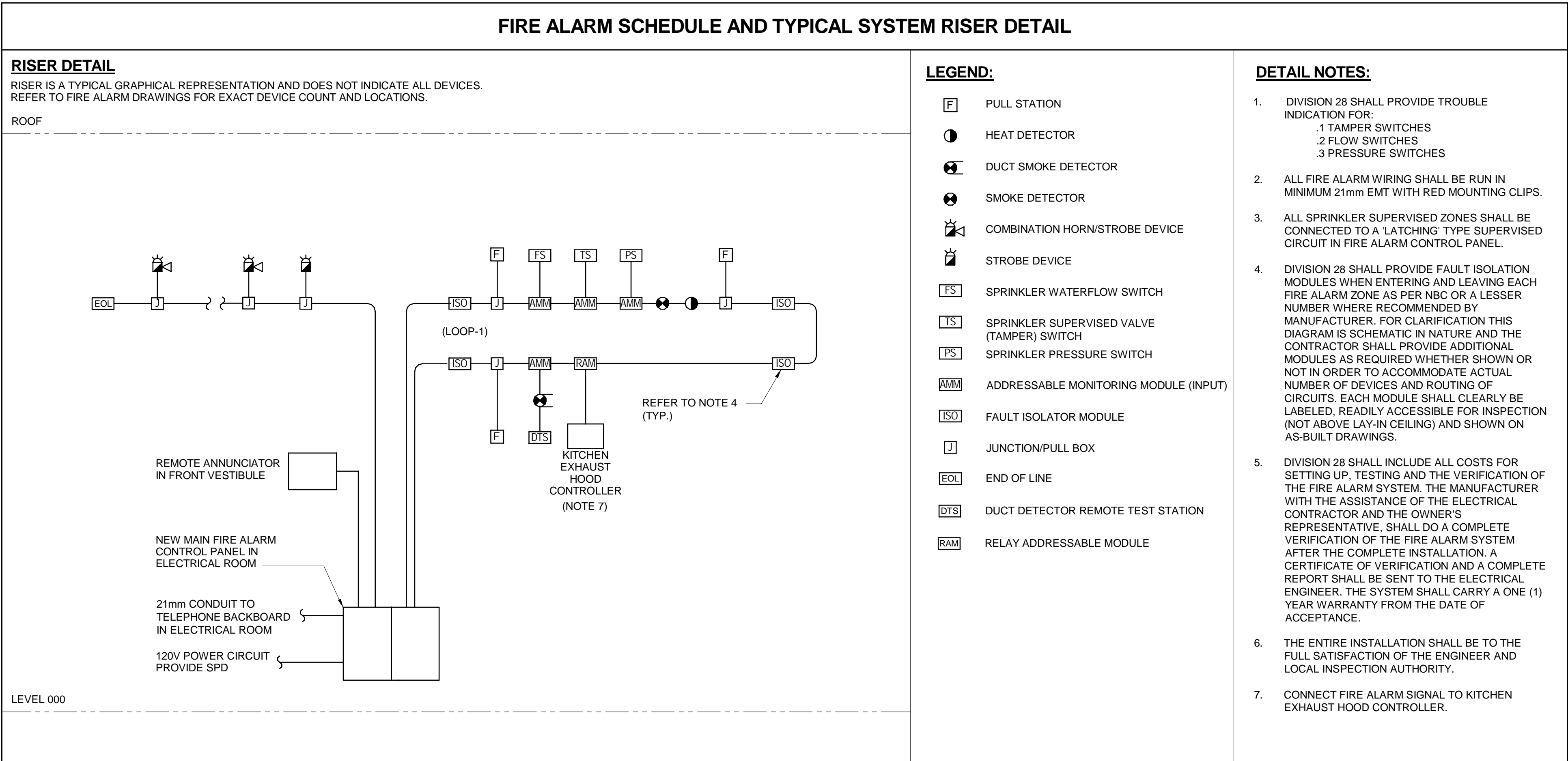


NOTES

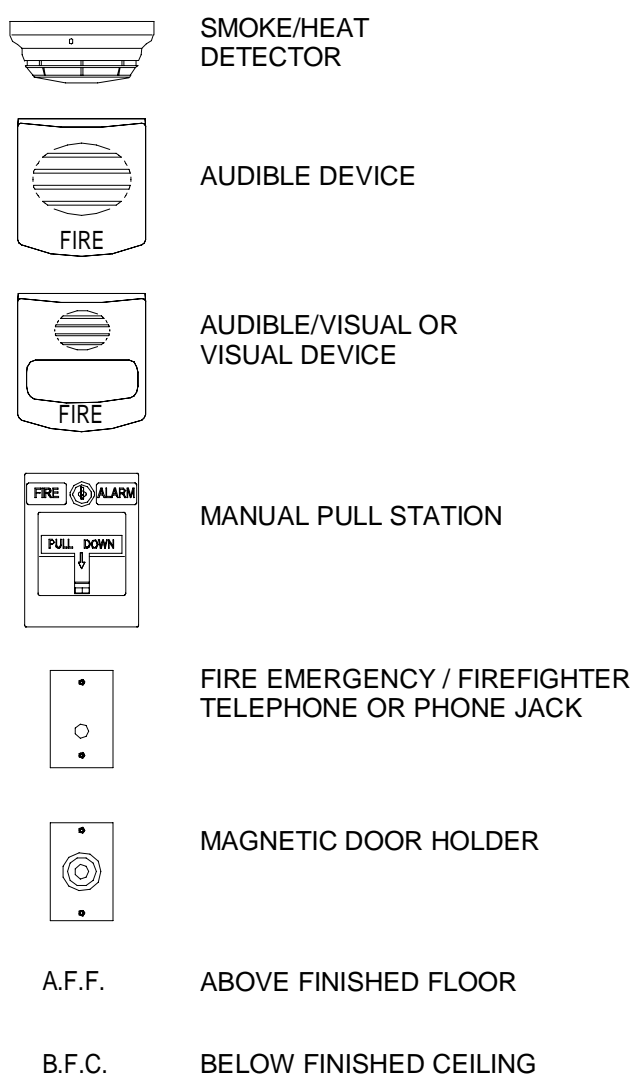
SUPPLY: 208V 3Ø 4W MAINS AMPACITY: 200 INCOMING: <input type="checkbox"/> BREAKER <input checked="" type="checkbox"/> LUGS MAIN BREAKER REQUIRED: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO MAIN BREAKER AMPS: BUS MATERIAL: <input checked="" type="checkbox"/> COPPER <input type="checkbox"/> ALUMINUM BUS AND BREAKER RATING: 14kA			NAME PLATE: NEW PANEL 'A'										LOCATION: ELECTRICAL ROOM MOUNTING: <input checked="" type="checkbox"/> SURFACE <input type="checkbox"/> FLUSH MANUFACTURER: MODEL NO: BREAKER: <input type="checkbox"/> PLUG-IN <input checked="" type="checkbox"/> BOLT-ON SPD: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO SERVICE ENTRANCE RATED: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
REV	CCT	DESCRIPTION	VA	P	BKR	A	B	C	BKR	P	VA	DESCRIPTION	CCT	REV		
1		RM 130 DUPLEX RECEPTACLE	400	1	20	+			20	1	-	EXISTING CIRCUIT	43			
2		RM 130 QUAD RECEPTACLE 1	800	1	20		+		20	1	-	EXISTING CIRCUIT	44			
3		RM 130 QUAD RECEPTACLE 2	800	1	20			+	20	1	-	EXISTING CIRCUIT	45			
4		EXISTING CIRCUIT	-	1	15	+			20	1	-	EXISTING CIRCUIT	46			
5		EXISTING CIRCUIT	-	1	15		+		20	1	-	EXISTING CIRCUIT	47			
6		EXISTING CIRCUIT	-	1	15			+	20	1	-	EXISTING CIRCUIT	48			
7		EXISTING CIRCUIT	-	1	15	+			20	1	-	EXISTING CIRCUIT	49			
8		EXISTING CIRCUIT	-	1	15			+	20	1	-	EXISTING CIRCUIT	50			
9		EXISTING CIRCUIT	-	1	15		+		20	1	-	EXISTING CIRCUIT	51			
10		EXISTING CIRCUIT	-	1	15	+			20	1	-	EXISTING CIRCUIT	52			
11		EXISTING CIRCUIT	-	1	15			+	20	1	-	EXISTING CIRCUIT	53			
12		EXISTING CIRCUIT	-	1	15		+		20	1	-	EXISTING CIRCUIT	54			
13		EXISTING CIRCUIT	-	1	15	+			20	1	-	EXISTING CIRCUIT	55			
14		EXISTING CIRCUIT	-	1	15		+		20	1	-	EXISTING CIRCUIT	56			
15		EXISTING CIRCUIT	-	1	15			+	20	1	-	EXISTING CIRCUIT	57			
16		EXISTING CIRCUIT	-	1	15	+			20	1	-	EXISTING CIRCUIT	58			
17		EXISTING CIRCUIT	-	1	15		+		20	1	-	EXISTING CIRCUIT	59			
18		EXISTING CIRCUIT	-	1	15	+			20	1	-	EXISTING CIRCUIT	60			
19		EXISTING CIRCUIT	-	1	15	+			20	1	-	EXISTING CIRCUIT	61			
20		EXISTING CIRCUIT	-	1	15		+		20	1	-	EXISTING CIRCUIT	62			
21		EXISTING CIRCUIT	-	1	15			+	20	1	-	EXISTING CIRCUIT	63			
22		EXISTING CIRCUIT	-	1	15	+			20	1	-	EXISTING CIRCUIT	64			
23		EXISTING CIRCUIT	-	1	15		+		20	1	-	EXISTING CIRCUIT	65			
24		EXISTING CIRCUIT	-	1	15			+	20	1	-	EXISTING CIRCUIT	66			
25		EXISTING CIRCUIT	-	1	15	+			20	1	-	EXISTING CIRCUIT	67			
26		EXISTING CIRCUIT	-	1	15		+		20	1	-	EXISTING CIRCUIT	68			
27		EXISTING CIRCUIT	-	1	15			+	20	1	-	EXISTING CIRCUIT	69			
28		EXISTING CIRCUIT	-	1	15	+			20	1	-	EXISTING CIRCUIT	70			
29		EXISTING CIRCUIT	-	1	15		+		20	1	-	EXISTING CIRCUIT	71			
30		EXISTING CIRCUIT	-	1	15			+	20	1	-	EXISTING CIRCUIT	72			
31		EXISTING CIRCUIT	-	1	15	+			20	1	-	EXISTING CIRCUIT	73			
32		EXISTING CIRCUIT	-	1	15		+		20	1	-	EXISTING CIRCUIT	74			
33		EXISTING CIRCUIT	-	1	15			+	20	1	-	EXISTING CIRCUIT	75			
34		EXISTING CIRCUIT	-	1	15	+			20	1	-	EXISTING CIRCUIT	76			
35		EXISTING CIRCUIT	-	1	15		+		20	1	-	EXISTING CIRCUIT	77			
36		EXISTING CIRCUIT	-	1	15			+	20	1	-	EXISTING CIRCUIT	78			
37		EXISTING CIRCUIT	-	1	15	+			20	1	-	EXISTING CIRCUIT	79			
38		EXISTING CIRCUIT	-	1	15		+		20	1	-	EXISTING CIRCUIT	80			
39		EXISTING CIRCUIT	-	1	15		+		-	-	-		81			
40		EXISTING CIRCUIT	-	1	15	+			50	2	-	EXISTING GARAGE PANEL	82			
41		EXISTING CIRCUIT	-	1	20								83			
42		EXISTING CIRCUIT	-	1	20			+					84			
LOAD 'A'			LOAD 'B'			LOAD 'C'										
400			800			800										

SUPPLY: 208V 3Ø 4W MAINS AMPACITY: 400 INCOMING: <input type="checkbox"/> BREAKER <input checked="" type="checkbox"/> LUGS MAIN BREAKER REQUIRED: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO MAIN BREAKER AMPS: BUS MATERIAL: <input checked="" type="checkbox"/> COPPER <input type="checkbox"/> ALUMINUM BUS AND BREAKER RATING: 14kA			NAME PLATE: NEW PANEL ' M '									LOCATION: MECHANICAL MEZZANINE MOUNTING: <input checked="" type="checkbox"/> SURFACE <input type="checkbox"/> FLUSH MANUFACTURER: MODEL NO: BREAKER: <input type="checkbox"/> PLUG-IN <input checked="" type="checkbox"/> BOLT-ON SPD: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO SERVICE ENTRANCE RATED: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO				
REV	CCT	DESCRIPTION	VA	P	BKR	A	B	C	BKR	P	VA	DESCRIPTION	CCT	REV		
	1	LIGHTING	600	1	15	+							43			
	2	ROOF RECEPTACLE	400	1	20		+						44			
	3												45			
	4	EF-1	4600	2	45		+						46			
	5												47			
	6	HP-1	4785	2	35			+					48			
	7	MEZZANINE RECEPTACLES	1600	1	20	+				15	1	100	PU-3	49		
	8	SPARE	-	1	15		+			15	1	100	PU-4	50		
	9	SPARE	-	1	15			+		15	1	100	PU-5	51		
	10	SPARE	-	1	15		+			15	1	100	PU-6	52		
	11	SPARE	-	1	15			+		15	1	100	PU-7	53		
	12	SPARE	-	1	20			+		15	1	100	PU-8	54		
	13	SPARE	-	1	20		+			15	1	100	PU-9	55		
	14	SPARE	-	1	20		+			15	1	100	PU-10	56		
	15	SPARE	-	1	20			+					57			
	16	RCP-1	100	1	15	+				20	3	3000	FF-1	58		
	17	B-1	1680	1	20		+						59			
	18	B-2	1680	1	20			+					60			
	19	B-3	1680	1	20	+				20	3	3000	FF-2	61		
	20	CP-1	25	1	15		+						62			
	21	UH-1	160	1	15			+		15	1	500	EBB-1	63		
	22	UH-2	160	1	15	+				15	1	1000	EBB-2	64		
	23	UH-3	400	1	15		+			-	-	-	65			
	24		-	-	-			+					66			
	25	DWH-1	280	1	15		+			50	2	6250	CU-1	67		
	26	DWH-2	280	1	15			+					68			
	27	RH-1	500	1	15			+		50	2	6250	CU-2	69		
	28	WS-1	100	1	15	+							70			
	29		-	-	-			+		40	2	4995	CU-3	71		
	30							+					72			
	31	MUA-1	2000	2	20		+			40	2	4995	CU-4	73		
	32							+					74			
	33	AHU-1	1665	2	15			+		40	2	4995	CU-5	75		
	34						+						76			
	35	AHU-2	1665	2	15				+	35	2	4785	CU-6	77		
	36							+					78			
	37	AHU-3	1665	2	15		+			20	3	3000	FF-3	79		
	38							+					80			
	39	AHU-4	1665	2	15				+	15	1	500	EF-2	81		
	40						+			15	1	500	EF-3	82		
	41	AHU-5	1665	2	15					-	-	-	83			
	42		-	-	-			+		-	-	-	84			
			LOAD 'A'		LOAD 'B'		LOAD 'C'									
			27,553		24,243		27,898									

SUPPLY: 208V 3Ø 4W MAINS AMPACITY: 200 INCOMING: <input type="checkbox"/> BREAKER <input checked="" type="checkbox"/> LUGS MAIN BREAKER REQUIRED: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO MAIN BREAKER AMPS: BUS MATERIAL: <input checked="" type="checkbox"/> COPPER <input type="checkbox"/> ALUMINUM BUS AND BREAKER RATING: 14KA			NAME PLATE: NEW PANEL ' B '										LOCATION: ELECTRICAL ROOM MOUNTING: <input checked="" type="checkbox"/> SURFACE <input type="checkbox"/> FLUSH MANUFACTURER: MODEL NO: BREAKER: <input type="checkbox"/> PLUG-IN <input checked="" type="checkbox"/> BOLT-ON SPD: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO SERVICE ENTRANCE RATED: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
REV	CCT	DESCRIPTION	VA	P	BKR	A	B	C	BKR	P	VA	DESCRIPTION	CCT	REV		
	1	RM 121 RECEPTACLES	800	1	15	+			15	1	-		43			
	2	RM 119 RECEPTACLES	800	1	15		+		15	1	-		44			
	3	COR 114 NORTH RECEPTACLES	800	1	20			+	15	1	-		45			
	4	RM 122/123 RECEPTACLES	400	1	15				15	1	-		46			
	5	NW DRINKING FOUNTAIN	200	1	15		+		20	1	-		47			
	6	COR 114 RECEPTACLES	400	1	15			+	20	1	-		48			
	7	LOCKER SINKS RECEPTACLES	800	1	15		+		20	1	-		49			
	8		-	1	-			+	20	1	-		50			
	9	RM 116 RECEPTACLES	800	1	15				20	1	-		51			
	10	RM 103 RECEPTACLES	800	1	15		+		20	1	-		52			
	11	RM 103 TV RECEPTACLE	200	1	15				20	1	-		53			
	12	RM 117 RECEPTACLES	400	1	20			+	20	1	-		54			
	13	COR 107 RECEPTACLES	1600	1	20		+		20	1	-		55			
	14	UTR / WC 1/2/3 RECEPTACLES	800	1	15			+	20	1	-		56			
	15	WC 4/5 / LOCKER SINKS	800	1	15			+	20	1	-		57			
	16	RM 120 RECEPTACLES	800	1	15		+		20	1	-		58			
	17	RM 101 RECEPTACLES AND DOOR OPERATORS	700	1	15			+	15	1	-	SPARE	59			
	18	RM 116 SHOWER RECEPTACLE	400	1	20			+	15	1	-	SPARE	60			
	19	RM 105 RECEPTACLE	400	1	20		+		15	1	-	SPARE	61			
	20	RM 102 RECEPTACLES	800	1	15			+	15	1	-	SPARE	62			
	21	RM 102 RECEPTACLES 2	800	1	20			+	15	1	-	SPARE	63			
	22	NW LIGHTING	990	1	15		+		15	1	-	SPARE	64			
	23	VIEWING AND LOCKER ROOM 3 LIGHTING	960	1	15			+	15	1	-	SPARE	65			
	24	HALL LIGHTING	1080	1	15			+	15	1	-	SPARE	66			
	25	LOCKER ROOM 1&2 LIGHTING	780	1	15		+		15	1	-	SPARE	67			
	26	SE LIGHTING	1050	1	15			+	15	1	-	SPARE	68			
	27	EAST EXTERIOR LIGHTING	200	1	15				15	1	-	SPARE	69			
	28	SOUTH/WEST EXTERIOR LIGHTING	500	1	15		+		15	1	-	SPARE	70			
	29	PARKING LOT RECEPTACLE WEST 1	1200	1	15			+	15	1	-	SPARE	71			
	30	PARKING LOT RECEPTACLE WEST 2	1200	1	15			+	20	1	-	SPARE	72			
	31	PARKING LOT RECEPTACLE WEST 3	1200	1	15		+		20	1	-	SPARE	73			
	32	PARKING LOT RECEPTACLE WEST 4	1200	1	15			+	20	1	-	SPARE	74			
	33	PARKING LOT RECEPTACLE EAST 4	1200	1	15			+	20	1	-	SPARE	75			
	34	PARKING LOT RECEPTACLE EAST 3	1200	1	15		+		20	1	-	SPARE	76			
	35	PARKING LOT RECEPTACLE EAST 2	1200	1	15			+	20	1	-	SPARE	77			
	36	PARKING LOT RECEPTACLE EAST 1	1200	1	15			+	20	1	-	SPARE	78			
	37	EXTERIOR RECEPTACLE WEST	400	1	20		+		20	1	-	SPARE	79			
	38	EXTERIOR RECEPTACLE SE	200	1	15			+	20	1	-	SPARE	80			
	39	EXTERIOR RECEPTACLE SW	200	1	15			+	-	-	-		81			
	40	RM 106 RECEPTACLES	200	1	15		+		-	-	-		82			
	41	PARKING LIGHTING	200	1	15			+	-	-	-		83			
	42	EMERGENCY SIGNAGE	750	1	15			+	-	-	-		84			
			LOAD 'A'		LOAD 'B'		LOAD 'C'									
			10.870		9.510		10.530									



LEGEND:



NOTES:

- ALL CODE SECTION REFERENCES SHOWN WITHIN THIS DETAIL ARE FOR THE INSTALLATION OF FIRE ALARM SYSTEMS CAN/ULC-S524.
- REFER TO THE PROPER DEVICE INSTALLATION INSTRUCTIONS FOR BACKBOX MOUNTING HEIGHT. TYPICAL FOR ALL FIRE ALARM DEVICES.
- OTHER MOUNTING HEIGHTS FOR AUDIBLE APPLIANCES SHALL BE PERMITTED BY THE AHJ PROVIDING IT MEETS THE SOUND LEVEL OUTPUT REQUIRED.
- FOR CEILING HEIGHTS LESS THAN 2180MM [86"], THE VISUAL LENS MOUNTING HEIGHT SHALL BE WITHIN 150MM [6"] OF THE CEILING.
- SYNCHRONIZE TWO OR MORE APPLIANCES IN ANY FIELD OF VIEW. (SECTION 42.2)
- MEASUREMENTS SHOWN ARE TO THE CLOSEST EDGE OF THE DETECTOR. (SECTION 27.3.2 FIGURE 27.1)
- FAULT ISOLATION MODULES LOCATED ON OPPOSITE SIDES OF THE SAME FIRE SEPARATION SHALL NOT BE LOCATED IN THE SAME STUD SPACE AND SHALL BE OFFSET HORIZONTALLY A MINIMUM OF 400mm.

A	2026.06.03	ISSUED FOR TENDER/PERMIT
REV	DATE	DESCRIPTION

PROJECT NORTH

PERMIT / STAMP

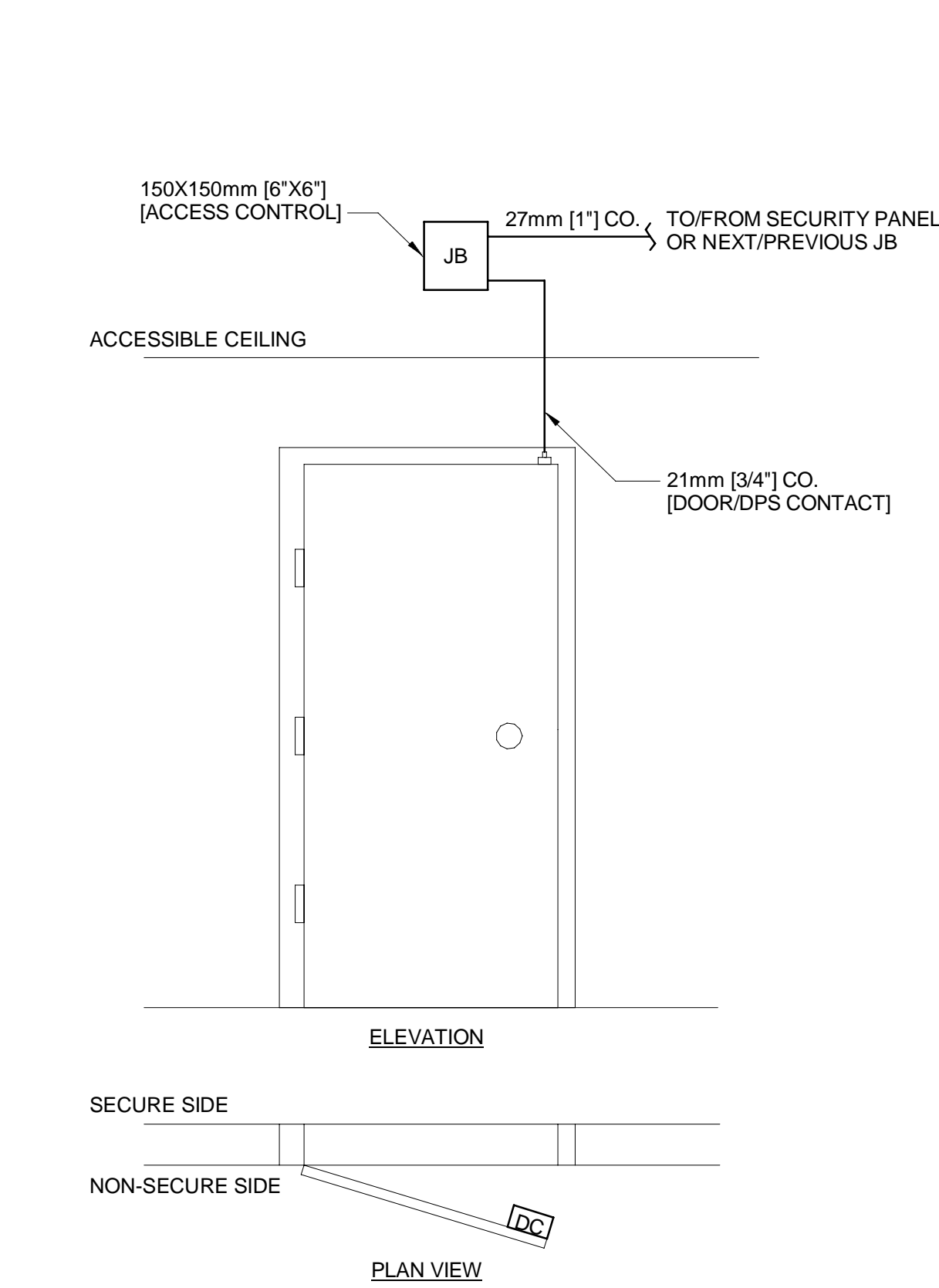
OWNER
Owner

PROJECT NAME & ADDRESS
GRUNTHAL ARENA EXPANSION
GRUNTHAL, MB

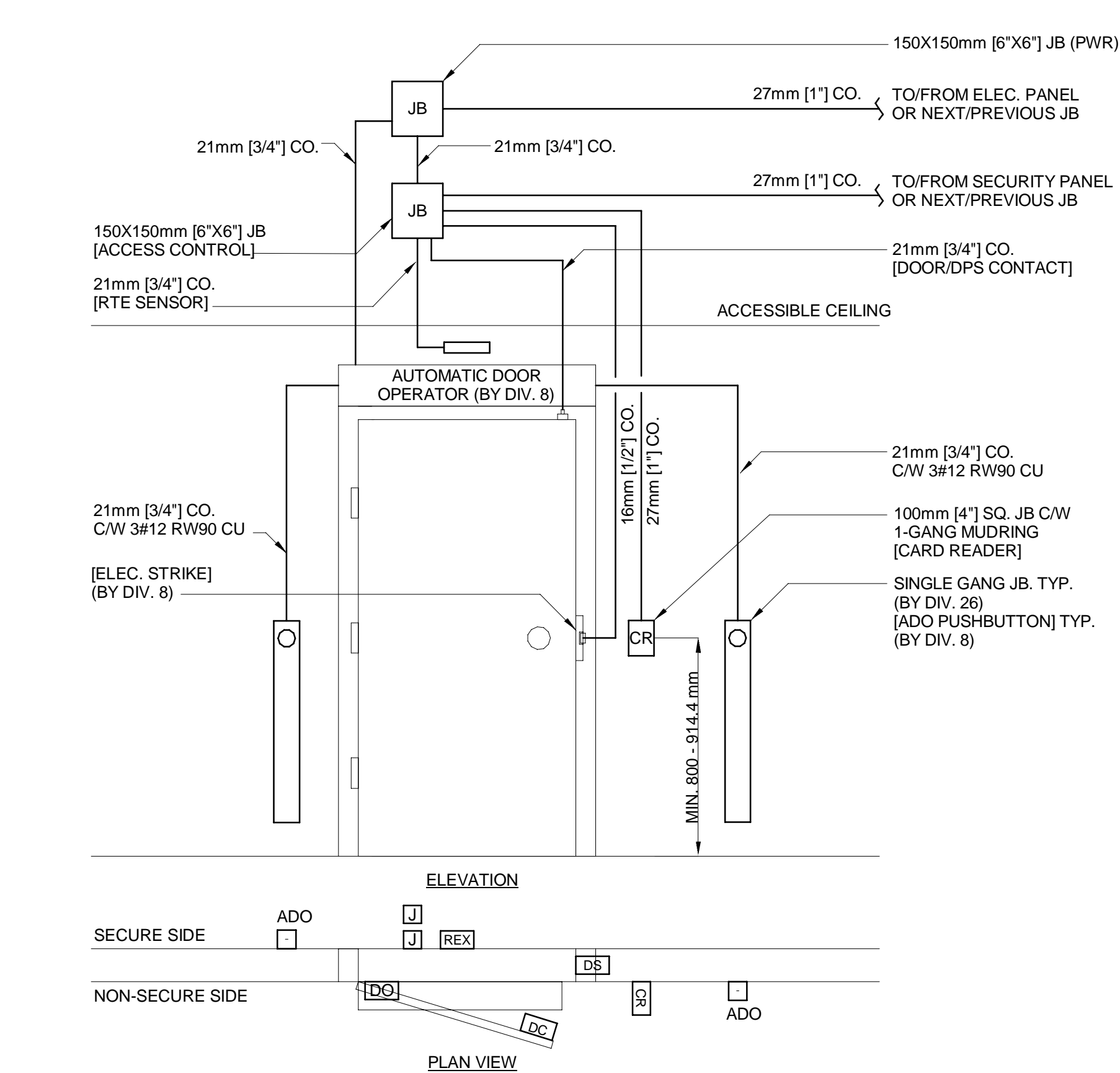
TITLE
ELECTRICAL FIRE ALARM
RISER AND DETAILS
SCALE N.T.S.
PROJECT NUMBER 25-1962-003
DRAWN BY RAH

FOR TENDER ONLY
NOT TO BE USED FOR CONSTRUCTION

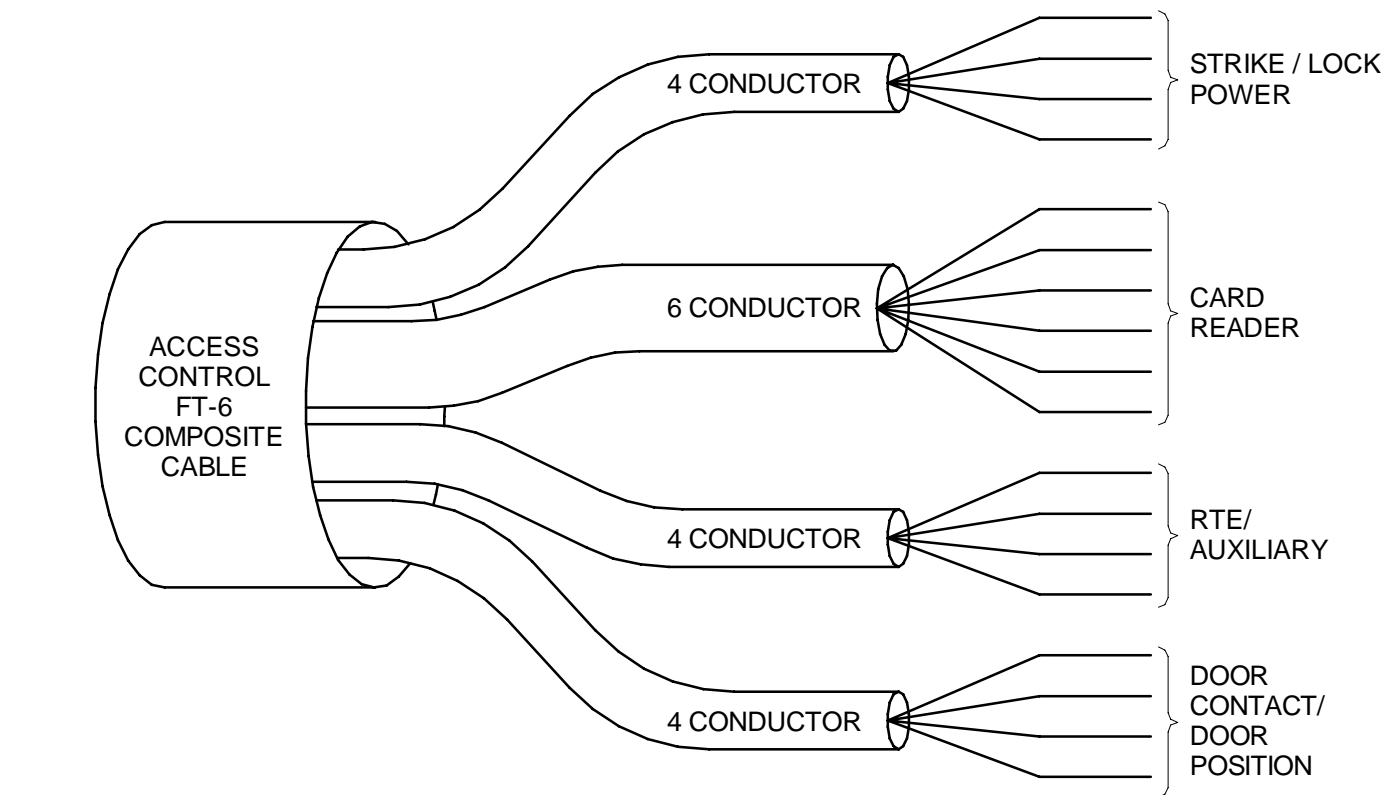
2-E-700



A SINGLE DOOR W/ DPS MONITORING
SCALE: N.T.S.

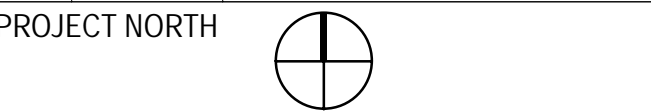


B AUTOMATIC DOOR OPERATOR W/ CARD ACCESS DETAIL
SCALE: N.T.S.



C ACCESS CONTROL COMPOSITE CABLE DETAIL
N.T.S.

A	2026.06.03	ISSUED FOR TENDER/PERMIT
REV	DATE	DESCRIPTION



PERMIT / STAMP

OWNER
Owner

PROJECT NAME & ADDRESS
**GRUNTHAL ARENA EXPANSION
GRUNTHAL, MB**

TITLE
**ELECTRICAL SECURITY
ROUGH-IN DETAILS**
SCALE N.T.S.
PROJECT NUMBER 25-1962-003
DRAWN BY RAH

FOR TENDER ONLY
NOT TO BE USED FOR CONSTRUCTION

2-E-701