

| SINGLE LINE SYMBOLS AND CONTROL DIAGRAMS |                                                                       |
|------------------------------------------|-----------------------------------------------------------------------|
| SYMBOL                                   | DESCRIPTION                                                           |
|                                          | CIRCUIT BREAKER, MOULDED CASE WITH THERMAL & MAGNETIC TRIPS           |
|                                          | MOTOR CIRCUIT PROTECTOR (MCP) STYLE BREAKER, WITH MAGNETIC TRIPS ONLY |
|                                          | NEMA SIZE 1 STARTER WITH THERMAL OVERLOAD TRIP                        |
|                                          | CURRENT TRANSFORMER                                                   |
|                                          | CAPACITOR                                                             |
|                                          | CONTROL POWER TRANSFORMER (CPT)                                       |
|                                          | FUSE                                                                  |
|                                          | FUSIBLE DISCONNECT SWITCH                                             |
|                                          | NON-FUSIBLE DISCONNECT SWITCH                                         |
|                                          | DRY-TYPE POWER TRANSFORMER (INDOOR)                                   |
|                                          | OIL-FILLED POWER TRANSFORMER (OUTDOOR)                                |
|                                          | MOTOR STARTER (MS) COIL, WITH COIL SUPPRESSOR                         |
|                                          | PILOT LIGHT, WHERE "X" INDICATES LENS COLOR: R=RED, W=WHITE, G=GREEN  |
|                                          | PUSH TO TEST STYLE PILOT LIGHT                                        |
|                                          | CONTROL RELAY (# DENOTES RELAY NUMBER)                                |
|                                          | TERMINAL BLOCK                                                        |
|                                          | SOLENOID VALVE                                                        |
|                                          | CONTACT, N.O. AND N.C.                                                |

| STANDARD ABBREVIATIONS – ELECTRICAL |                                                               |
|-------------------------------------|---------------------------------------------------------------|
| ABBREVIATION                        | DESCRIPTION                                                   |
| A                                   | AMPERES (CONTINUOUS)                                          |
| AC                                  | ALTERNATING CURRENT                                           |
| ASYM                                | ASYMMETRICAL                                                  |
| ATS                                 | AUTOMATIC TRANSFER SWITCH                                     |
| AUTO                                | AUTOMATIC                                                     |
| AWG                                 | AMERICAN WIRE GAUGE                                           |
| BU                                  | BATTERY UNIT (EMERGENCY)                                      |
| °C                                  | DEGREE CELSIUS                                                |
| C                                   | CONDUCTOR                                                     |
| CCT                                 | CIRCUIT                                                       |
| CL                                  | CENTERLINE                                                    |
| C/W                                 | COMPLETE WITH                                                 |
| CPT                                 | CONTROL POWER TRANSFORMER                                     |
| CSA                                 | CANADIAN STANDARDS ASSOCIATION                                |
| CT                                  | CURRENT TRANSFORMER                                           |
| Cu                                  | COPPER                                                        |
| DC                                  | DIRECT CURRENT                                                |
| DISC                                | DISCONNECT                                                    |
| DPDT                                | DOUBLE POLE DOUBLE THROW                                      |
| DPST                                | DOUBLE POLE SINGLE THROW                                      |
| EEMAC                               | ELECTRICAL AND ELECTRONIC MANUFACTURERS ASSOCIATION OF CANADA |
| EP                                  | EXPLOSION PROOF (SUITABLE FOR CLASS I, ZONE 1)                |
| ETM                                 | ELAPSED TIME METER                                            |
| ESA                                 | ELECTRICAL SAFETY AUTHORITY                                   |
| GFI                                 | GROUND FAULT INTERRUPTER                                      |
| GND                                 | GROUND                                                        |
| HOA                                 | HAND-OFF-AUTOMATIC                                            |
| HP                                  | HORSEPOWER                                                    |
| Hz                                  | HERTZ                                                         |
| IEEE                                | INSTITUTE OF ELECTRICAL & ELECTRONIC ENGINEERS                |
| INST                                | INSTANTANEOUS                                                 |
| I/O                                 | INPUT/OUTPUT                                                  |
| ISB                                 | INTRINSIC SAFETY BARRIER                                      |
| JB                                  | JUNCTION BOX                                                  |
| kAIC                                | KILO-AMP INTERRUPTING CAPACITY                                |
| kVA                                 | KILOVOLTAMPERE                                                |
| kW                                  | KILOWATT                                                      |
| kWh                                 | KILOWATT HOUR                                                 |
| LOR                                 | LOCAL-OFF-REMOTE                                              |
| LUC                                 | LOCAL UTILITY COMPANY (INNPOWER)                              |
| MAN                                 | MANUAL                                                        |
| MCC                                 | MOTOR CONTROL CENTRE                                          |
| MH                                  | MANHOLE                                                       |
| mm                                  | MILLIMETER                                                    |
| MOT                                 | MOTOR                                                         |
| N                                   | NEUTRAL                                                       |
| NEMA                                | NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION                 |
| N/A                                 | NON AUTOMATIC                                                 |
| N.O.                                | NORMALLY OPEN                                                 |
| N.C.                                | NORMALLY CLOSED                                               |
| NP                                  | NAMEPLATE                                                     |
| NTS                                 | NOT TO SCALE                                                  |
| OESC                                | ONTARIO ELECTRICAL SAFETY CODE                                |
| O/H                                 | OVERHEAD                                                      |
| O/L                                 | OVERLOAD                                                      |
| OO                                  | ON-OFF                                                        |
| PB                                  | PUSHBUTTON                                                    |
| PDC                                 | POWER DISTRIBUTION CENTRE                                     |
| PH. OR Ø                            | PHASE OR DIAMETER                                             |
| PLC                                 | PROGRAMMABLE LOGIC CONTROLLER                                 |
| REM                                 | REMOTE                                                        |
| RGS                                 | RIGID GALVANIZED STEEL                                        |
| SN                                  | SOLID NEUTRAL                                                 |
| SPDT                                | SINGLE POLE DOUBLE THROW                                      |
| SPMDD                               | STANDARD PROCTOR MAXIMUM DRY DENSITY                          |
| SPST                                | SINGLE POLE SINGLE THROW                                      |
| SS                                  | STAINLESS STEEL (316)                                         |
| SW                                  | SWITCH                                                        |
| SYM                                 | SYMMETRICAL                                                   |
| TDC                                 | TIME DELAY ON CLOSING                                         |
| TDDO                                | TIME DELAY ON DROP-OUT (OR OFF TIMER)                         |
| TDO                                 | TIME DELAY ON OPENING                                         |
| TDPU                                | TIME DELAY ON PICK-UP                                         |
| TYP.                                | TYPICAL                                                       |
| U/G                                 | UNDERGROUND                                                   |
| VA                                  | VOLT-AMPERE                                                   |
| VFD                                 | VARIABLE FREQUENCY DRIVE                                      |
| WH                                  | WEATHERHEAD                                                   |
| WP                                  | WEATHERPROOF                                                  |

| GENERAL SYMBOLS |                                                                                         |
|-----------------|-----------------------------------------------------------------------------------------|
|                 | DETAIL SYMBOL:<br>X = DETAIL NUMBER<br>YZ = DRAWING NUMBER                              |
|                 | EQUIPMENT SUPPLIED BY ANOTHER DIVISION, INSTALLATION, WIRING AND CONDUIT BY DIVISION 16 |
|                 | EXISTING OR RELOCATED EQUIPMENT, NEW WIRING AND CONDUIT BY DIVISION 16                  |
|                 | SYMBOL INDICATES A DEVICE LOCATION, SEE BELOW (# DENOTES LOCATION NUMBER)               |
|                 | SYMBOL INDICATES MODIFICATION OR NEW WORK NOTE (# DENOTES NOTE NUMBER)                  |

**ELECTRICAL LEGEND**  
ALL SYMBOLS/DEVICES/ABBREVIATIONS LISTED MAY NOT APPLY

| SITE PLAN LEGEND |                                                           |
|------------------|-----------------------------------------------------------|
|                  | PRIMARY DUCTBANK, UNDERGROUND CONCRETE ENCASED            |
|                  | SECONDARY DUCTBANK, UNDERGROUND CONCRETE ENCASED          |
|                  | LIGHTING DUCT, UNDERGROUND DIRECT BURIED                  |
|                  | COMMUNICATION UNDERGROUND DUCTS                           |
|                  | PROPOSED ENBRIDGE GAS HEADER                              |
|                  | PROPOSED ENBRIDGE GAS FEED                                |
|                  | 3-PHASE PAD MOUNTED TRANSFORMER C/W VAULT AND GROUND GRID |
|                  | POWER PEDESTAL                                            |
|                  | ROGERS GRADE LEVEL BOX                                    |
|                  | BELL GRADE LEVEL BOX (BULK-7 SERIES 30"Wx48"Lx36"D)       |
|                  | LIGHT AND POLE (L# DENOTES LIGHT TYPE)                    |

| DRAWING LIST – ELECTRICAL |                                           |
|---------------------------|-------------------------------------------|
| E1.0                      | ELECTRICAL LEGEND SHEET No.1              |
| E1.1                      | ELECTRICAL POWER SITE PLAN SHEET No.1     |
| E2.1                      | ELECTRICAL LIGHTING SITE PLAN SHEET No.1  |
| E2.2                      | PHOTOMETRIC LIGHTING SITE PLAN SHEET No.1 |
| E2.3                      | LIGHTING DETAILS SHEET No.1               |
| E2.4                      | LIGHTING DETAILS SHEET No.2               |
| E3.1                      | COMMUNICATION SITE PLAN SHEET No.1        |
| E3.2                      | COMMUNICATION DETAILS SHEET No.1          |
| E4.1                      | DUCT BANKS SHEET No.1                     |
| E4.2                      | DUCT BANKS SHEET No.2                     |
| E4.3                      | ELEVATION DETAILS SHEET No.1              |
| E4.4                      | ELEVATION DETAILS SHEET No.2              |
| E4.5                      | 3 PHASE TRANSFORMER SPECIFICATIONS        |
| E4.6                      | USF AND VAULT DETAILS                     |
| E5.1                      | SINGLE LINE DIAGRAM                       |
| E5.2                      | ELECTRICAL POWER PEDESTAL PP-A DETAILS    |
| E5.3                      | ELECTRICAL LIGHTING PEDESTAL LP-B DETAILS |
| E5.4                      | ELECTRICAL LIGHTING PEDESTAL LP-C DETAILS |
| E5.5                      | ELECTRICAL LIGHTING PEDESTAL LP-D DETAILS |



KEY PLAN - NTS  
BARRIE ONTARIO

**ACCEPTED FOR  
CONSTRUCTION**  
**INNPOWER CORPORATION**

per ..... TONY MENDICINO  
Date: ..... MAY 2020

**FINAL APPROVED PLAN**  
File: D11-017-2017  
Date: August 12, 2021  
No. of Pages: 1

|     |                              |            |         |
|-----|------------------------------|------------|---------|
| 7.  | ISSUED FOR ESA PLAN APPROVAL | 2020/01/08 | GGR     |
| 8.  | ISSUED FOR TENDER            | 2020/02/13 | GGR     |
| 9.  | ISSUED FOR CONSTRUCTION      | 2020/MAY   | GGR     |
| 10. | ISSUED E6.1 FOR TENDER       | 2020/NOV   | GGR     |
| 11. | UPDATED CIVIL BASE PLAN      | 2021/MAR   | DL      |
| NO. | REVISIONS                    | DATE       | INITIAL |

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BISTRO 6  
CITY OF BARRIE

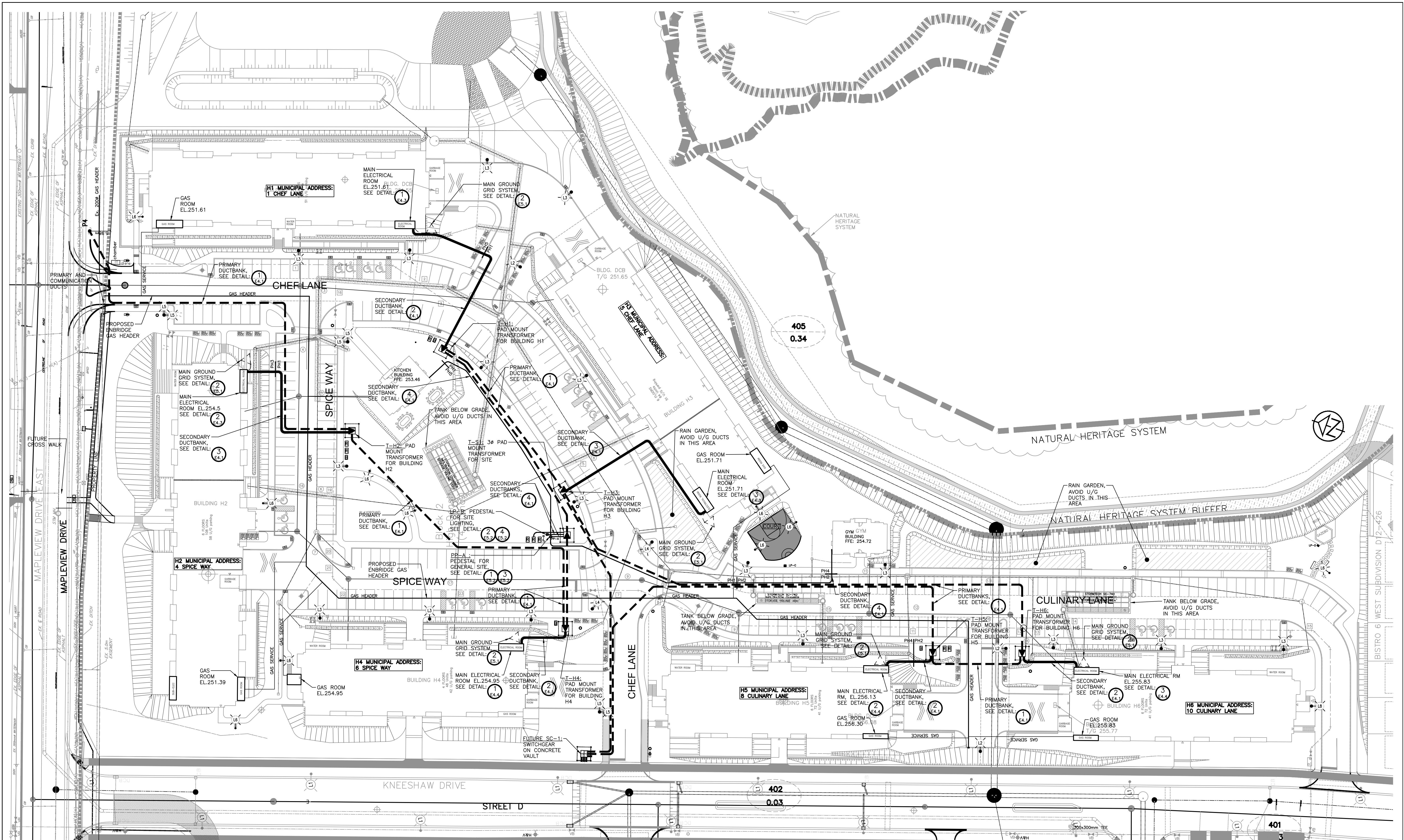
ELECTRICAL LEGEND  
SHEET No.1



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| DRAWN   | JS  | PROJECT         | DWG. NO |                 |
| CHECKED | GGR | 17026P          | E1.0    |                 |





1 ELECTRICAL SITE PLAN – POWER LAYOUT  
E1.1

SCALE 1:500  
PROVIDE LARGE UTILITY "SWEEP" FITTINGS FOR ALL DUCT BENDS

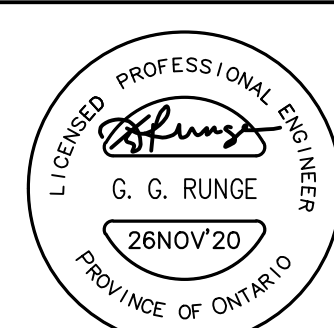
ACCEPTED FOR  
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per TONY MENDICINO  
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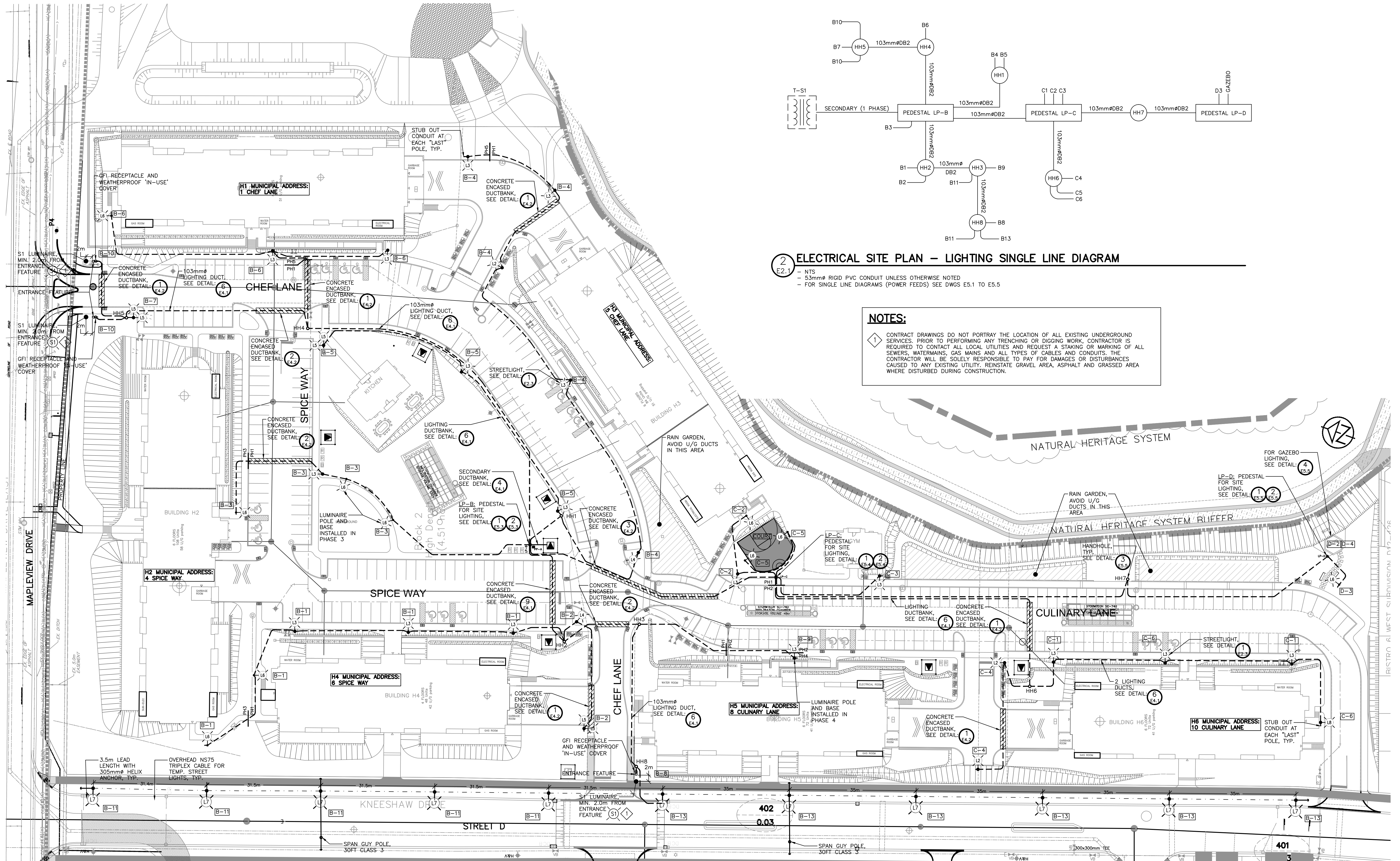
ELECTRICAL POWER  
SITE PLAN SHEET No.1



|         |     |                 |          |                 |
|---------|-----|-----------------|----------|-----------------|
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1 ELECTRICAL SITE PLAN – LIGHTING LAYOUT  
E2.1 – SCALE 1:500

2 ELECTRICAL SITE PLAN – LIGHTING SINGLE LINE DIAGRAM  
E2.1

NOTES:

- 1 CONTRACT DRAWINGS DO NOT PORTRAY THE LOCATION OF ALL EXISTING UNDERGROUND SERVICES. PRIOR TO PERFORMING ANY TRENCHING OR DIGGING WORK, CONTRACTOR IS REQUIRED TO CONTACT ALL LOCAL UTILITIES AND REQUEST A STAKING OR MARKING OF ALL SEWERS, WATERMAINS, GAS MAINS AND ALL TYPES OF CABLES AND CONDUITS. THE CONTRACTOR WILL BE SOLELY RESPONSIBLE TO PAY FOR DAMAGES OR DISTURBANCES CAUSED TO ANY EXISTING UTILITY, REINSTATE GRAVEL AREA, ASPHALT AND GRASSED AREA WHERE DISTURBED DURING CONSTRUCTION.

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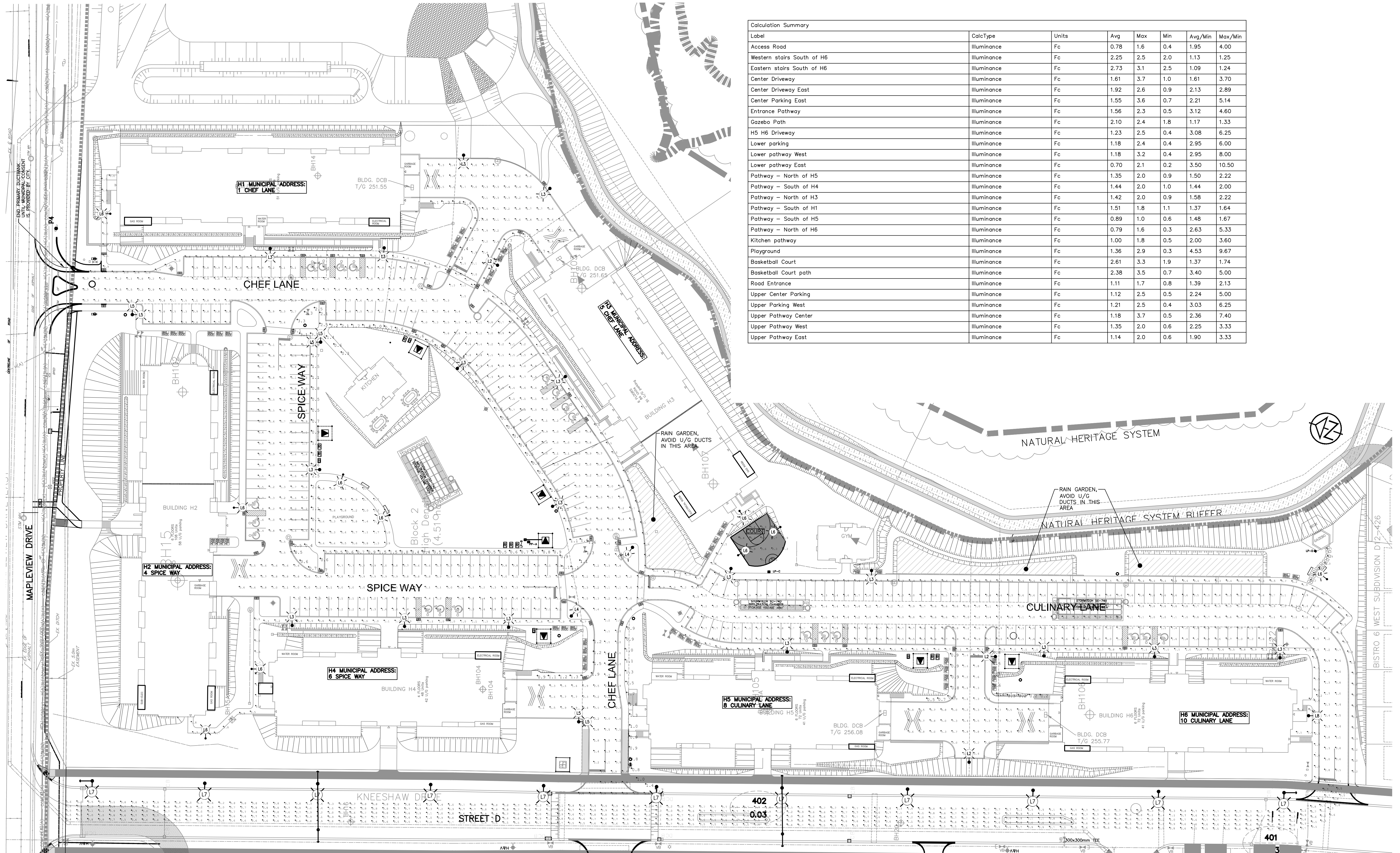
ELECTRICAL LIGHTING  
SITE PLAN SHEET No.1



|         |     |                 |          |                 |
|---------|-----|-----------------|----------|-----------------|
| DESIGN  | GGR | SCALE: AS SHOWN | DATE     | SEPTEMBER, 2018 |
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| Calculation Summary        |            |       |      |     |     |         |
|----------------------------|------------|-------|------|-----|-----|---------|
| Label                      | CalcType   | Units | Avg  | Max | Min | Avg/Min |
| Access Road                | Iluminance | Fc    | 0.78 | 1.6 | 0.4 | 1.95    |
| Western stairs South of H6 | Iluminance | Fc    | 2.25 | 2.5 | 2.0 | 1.13    |
| Eastern stairs South of H6 | Iluminance | Fc    | 2.73 | 3.1 | 2.5 | 1.09    |
| Center Driveway            | Iluminance | Fc    | 1.61 | 3.7 | 1.0 | 1.61    |
| Center Driveway East       | Iluminance | Fc    | 1.92 | 2.6 | 0.9 | 2.13    |
| Center Parking East        | Iluminance | Fc    | 1.55 | 3.6 | 0.7 | 2.21    |
| Entrance Pathway           | Iluminance | Fc    | 1.56 | 2.3 | 0.5 | 3.12    |
| Gazebo Path                | Iluminance | Fc    | 2.10 | 2.4 | 1.8 | 1.17    |
| H5 H6 Driveway             | Iluminance | Fc    | 1.23 | 2.5 | 0.4 | 3.08    |
| Lower parking              | Iluminance | Fc    | 1.18 | 2.4 | 0.4 | 2.95    |
| Lower pathway West         | Iluminance | Fc    | 1.18 | 3.2 | 0.4 | 2.95    |
| Lower pathway East         | Iluminance | Fc    | 0.70 | 2.1 | 0.2 | 3.50    |
| Pathway - North of H5      | Iluminance | Fc    | 1.35 | 2.0 | 0.9 | 1.50    |
| Pathway - South of H4      | Iluminance | Fc    | 1.44 | 2.0 | 1.0 | 1.44    |
| Pathway - North of H3      | Iluminance | Fc    | 1.42 | 2.0 | 0.9 | 1.58    |
| Pathway - South of H1      | Iluminance | Fc    | 1.51 | 1.8 | 1.1 | 1.37    |
| Pathway - South of H5      | Iluminance | Fc    | 0.89 | 1.0 | 0.6 | 1.48    |
| Pathway - North of H6      | Iluminance | Fc    | 0.79 | 1.6 | 0.3 | 2.63    |
| Kitchen pathway            | Iluminance | Fc    | 1.00 | 1.8 | 0.5 | 2.00    |
| Playground                 | Iluminance | Fc    | 1.36 | 2.9 | 0.3 | 4.53    |
| Basketball Court           | Iluminance | Fc    | 2.61 | 3.3 | 1.9 | 1.37    |
| Basketball Court path      | Iluminance | Fc    | 2.38 | 3.5 | 0.7 | 3.40    |
| Road Entrance              | Iluminance | Fc    | 1.11 | 1.7 | 0.8 | 1.39    |
| Upper Center Parking       | Iluminance | Fc    | 1.12 | 2.5 | 0.5 | 2.24    |
| Upper Parking West         | Iluminance | Fc    | 1.21 | 2.5 | 0.4 | 3.03    |
| Upper Pathway Center       | Iluminance | Fc    | 1.18 | 3.7 | 0.5 | 2.36    |
| Upper Pathway West         | Iluminance | Fc    | 1.35 | 2.0 | 0.6 | 2.25    |
| Upper Pathway East         | Iluminance | Fc    | 1.14 | 2.0 | 0.6 | 1.90    |

1 ELECTRICAL SITE PLAN – PHOTOMETRIC LAYOUT  
E2.2 – SCALE 1:500

FINAL APPROVED PLAN  
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CITY OF BARRIE

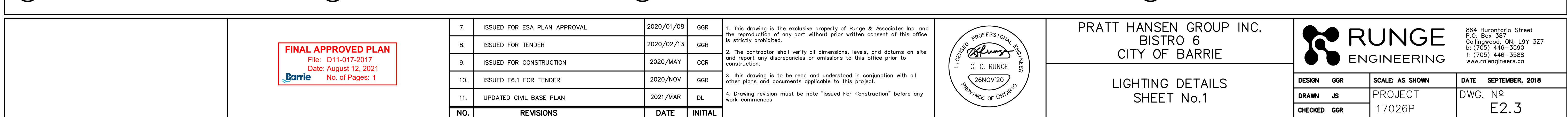
PHOTOMETRIC LIGHTING  
SITE PLAN SHEET No.1



|         |     |                 |          |                 |
|---------|-----|-----------------|----------|-----------------|
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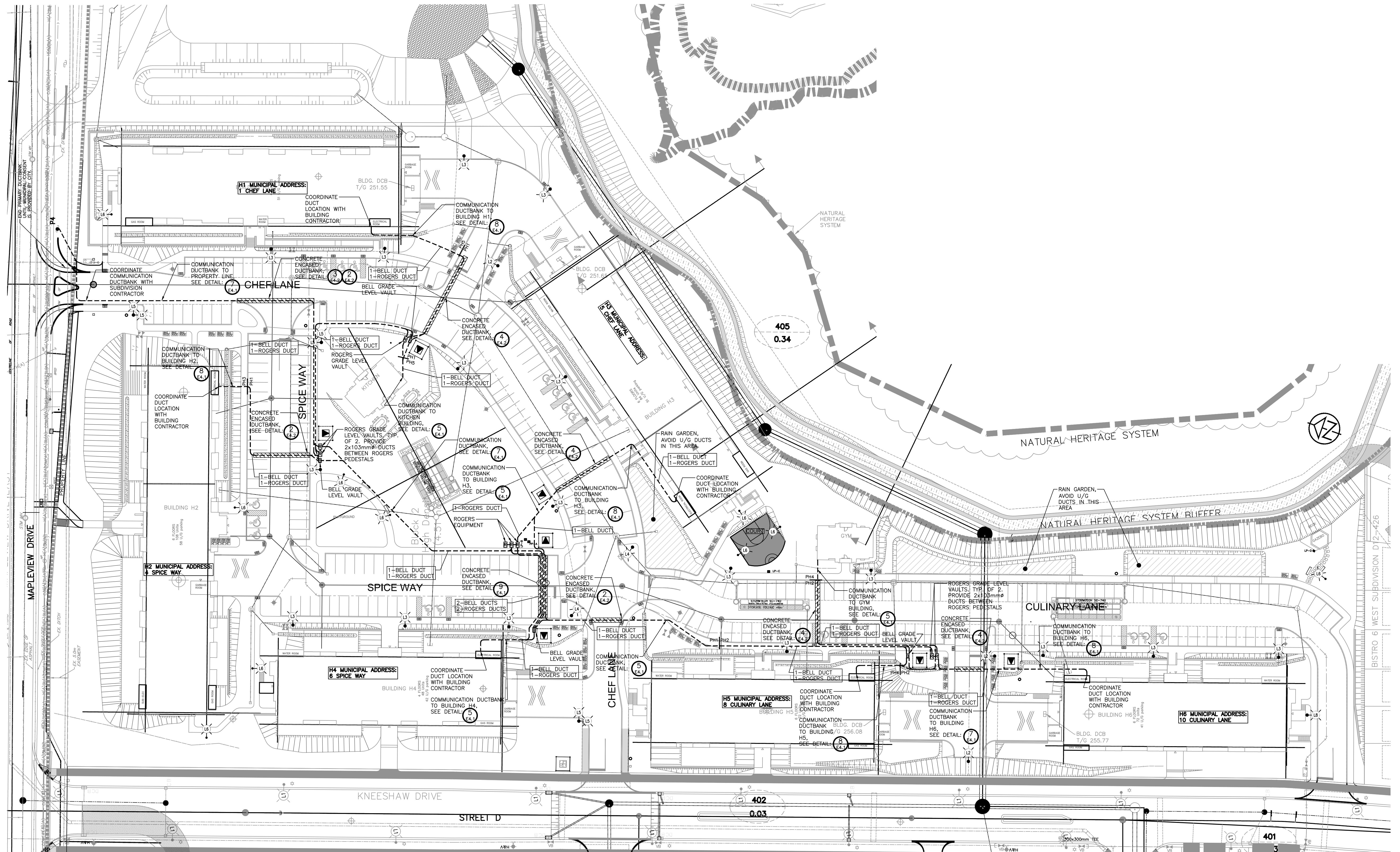






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| 11. | UPDATED CIVIL BASE PLAN      | 2021/MAR   | DL      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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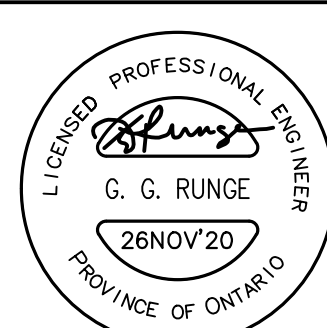


1 ELECTRICAL SITE PLAN – COMMUNICATION LAYOUT  
E3.1 – SCALE 1:500

**FINAL APPROVED PLAN**  
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BISTRO 6  
CITY OF BARRIE

COMMUNICATION  
SITE PLAN SHEET No.1



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## OLDCASTLE ENCLOSURE SOLUTIONS VAULT INSTALLATION GUIDE

### Overview

Connect offers a full line up of vaults from Oldcastle Enclosure Solutions. With a product offering ranging from HDPE plastic pedestrian rated units to concrete deliberate traffic rated units, there is a vault designed for your application. All units are produced and tested within North America, ensuring that the units meet both environmental and testing requirements.

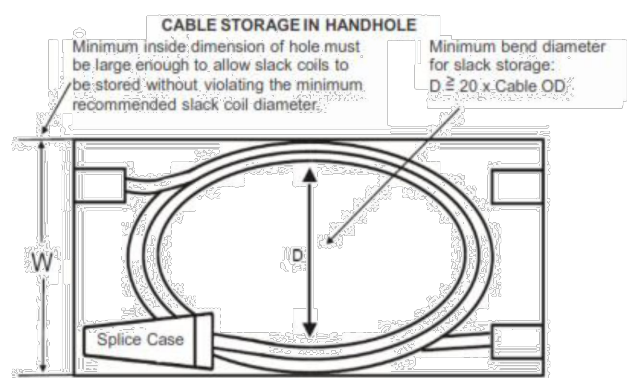
Always follow company mandated health and safety guidelines when installing vaults/handholes and working in or around vaults/handholes such as, but not limited to;

- ✓ Wear proper safety footwear as required
- ✓ Wear proper eye protection as required
- ✓ Wear protective headwear as required
- ✓ Wear leather gloves with protector cuffs whenever practical
- ✓ Use heavy lifting techniques as required

This guide cannot anticipate all situations that could develop in the field. Rather, it represents information applicable to common installation conditions.

The vaults described in this guide are designed to be used with buried cable plant - to ensure proper bending radius is allowed:

- Cable slack storage should be no greater than 40% of the Enclosure height.
- The standard storage length of OSP fiber cable is 50' to 100'.
- Cable manufacturers should be consulted for specific product limits.



**CONNECT**  
telecommunications solutions inc.

Log #DU-1131 Version:1.1 Last Updated 18/09/2014

139 Dearborn Place, Waterloo, ON N2J 4N5  
1-877-900-7996 phone: 519.748.4411 fax: 519.748.0466  
customerservice@connect-telcom.com

www.connect-telcom.com

Page 1 of 3

## OLDCASTLE ENCLOSURE SOLUTIONS VAULT INSTALLATION GUIDE

### Installation – Plastic Vaults

This guide cannot anticipate all situations that could develop in the field. Rather, it represents information applicable to common installation conditions.

#### PROCEDURE WARNING

**Buried Telecommunications Cables. Call before digging.**

#### Site preparation

- Follow local guidelines and job requirements.

#### Excavation and preparation of enclosure hole.

- Remove material to provide 1 – 2' of clearance all around the enclosure and 6" – 8" in additional depth allowing for bedding and rodent barrier, with mechanical excavator or hand dig as appropriate
- Place 3/4" crushed stone at the base of the excavated hole and confirm excavation floor is level. Do not use "river rock" or "round stone" as desired compaction and equivalent resistance to lateral loading will not be met. The rock should be free of soil and organic material.

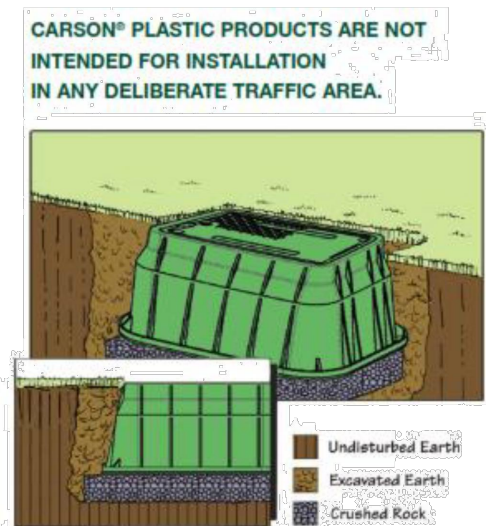
#### Removing enclosure from delivery vehicle and pallet.

- Remove shipping band from enclosure if applicable.
- Use proper hook to remove lid from the enclosure Base.
- Using proper lifting techniques secure and remove box from truck.

#### Enclosure placement into prepared hole.

- Set Vault into the center of the excavated hole on top of the bedding material and adjust height to grade. If applicable, ensure that the vault is parallel with sidewalk or curb.
- Place 3/4" crushed stone around the sides.
- Install the lid on the vault and position the enclosure to the proper grade level as specified per the job requirement. If necessary: Remove lid, make the necessary elevation adjustments and recheck the elevation.
- Remove the lid and mark the vault for duct entry locations. A standard hole saw and/or drill motor may be used. Provide adequate clearance for ovality in ducts. Small clearance between duct and vault may be sealed with expanding polyurethane foam as required.
- Reinstall the lid to vault prior to uniformly backfilling on all four sides. Nut, bolt threads, and cover seat should always be free of dirt and debris before tightening down the bolt.
- Remove stones larger than 3" and larger and compact backfill per engineering specifications. Proper tamping tools such as a mechanical tamping device or hand operated device should be used. (fig 9) A hand shovel or backhoe should never be used for tamping as damage may occur. Remove excess backfill material from the site as applicable

**NOTE: Backfill material can vary based on product and installation location. It is customary in landscape installations where vehicles are prevented from traffic in or around a vault to use the spoils removed from excavation for backfill.**



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Page 2 of 3

## OLDCASTLE ENCLOSURE SOLUTIONS VAULT INSTALLATION GUIDE

### Installation – Polymer Concrete Vaults

#### PROCEDURE WARNING

**Buried Telecommunications Cables. Call before digging.**

#### Site preparation

- Follow local guidelines and job requirements.

#### Excavation and preparation of enclosure hole.

- Remove material to provide 1 – 2' of clearance all around the enclosure and 6" – 8" in additional depth allowing for bedding and rodent barrier, with mechanical excavator or hand dig as appropriate

- Place 3/4" crushed stone at the base of the excavated hole and confirm excavation floor is level. Do not use "river rock" or "round stone" as desired compaction and equivalent resistance to lateral loading will not be met. The rock should be free of soil and organic material.

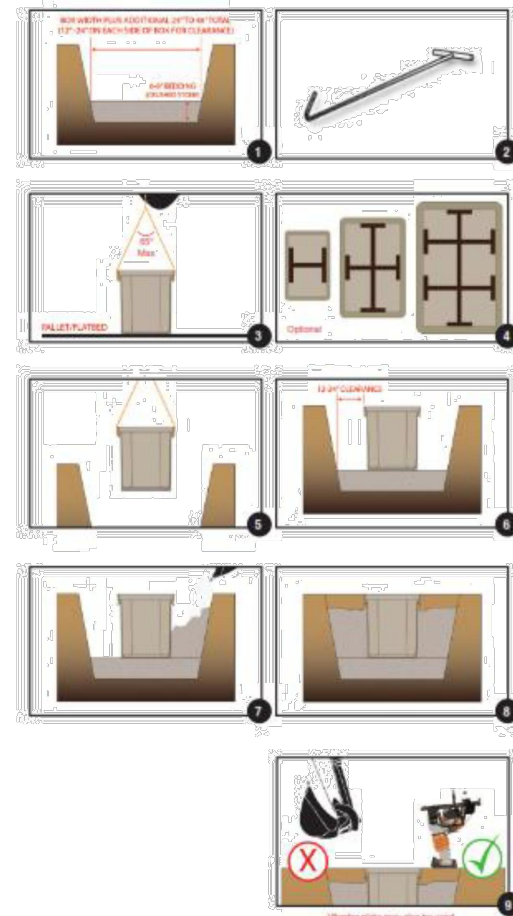
#### Removing enclosure from delivery vehicle and pallet.

- Remove shipping band from enclosure if applicable.
- Use proper lifting eye tool (T-Handle J-Hook) to remove lid from the enclosure base (fig 2).
- Using proper lifting techniques secure and remove box from truck.
- Optional: Install temporary brace supports in the interior of the enclosure to provide additional lateral rigidity and if 95% compaction is required (fig 4)

#### Enclosure placement into prepared hole.

- Set Vault into the center of the excavated hole on top of the bedding material and adjust height to grade. If applicable, ensure that the vault is parallel with sidewalk or curb. Place 3/4" crushed stone around the sides.
- Install the lid on the vault and position the enclosure to the proper grade level as specified per the job requirement. If necessary: Remove lid, make the necessary elevation adjustments and recheck the elevation.
- Remove the lid and mark the vault for duct entry locations. A standard hole saw and/or drill motor may be used. Provide adequate clearance for ovality in ducts. Small clearance between duct and vault may be sealed with expanding polyurethane foam as required.
- Reinstall the lid to vault prior to uniformly backfilling on all four sides. Nut, bolt threads, and cover seat should always be free of dirt and debris before tightening down the bolt.
- Remove stones larger than 3" and larger and compact backfill per engineering specifications. Proper tamping tools such as a mechanical tamping device or hand operated device should be used. (fig 9) A hand shovel or backhoe should never be used for tamping as damage may occur. Remove excess backfill material from the site as applicable.

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Page 3 of 3

## 1 ROGERS EQUIPMENT E3.2 –NTS



## Shutter Box Series Grade Level Box SGLB 3048, 36" Depth Unsurpassed "I-Beam" Strength

The SGLB 3048 is the latest addition to Channell's Shutter Box Series family of grade level boxes. Leading the way with the SGLB 1730 and SGLB 2436, Channell has proven and set new high performance standards in the industry for subsurface thermoplastic enclosures.

The SGLB 3048 features a straight sidewall "I Beam" construction combined with a high rib design that will greatly enhance the cover's load bearing qualities. Unlike tapered box designs, Channell's strength is accomplished with a straight sidewall design that supports the cover's load across the entire vertical sidewall. Sidewall deflection is neutralized

with the addition of a strength member molded into the sidewall. These features allow the SGLB 3048 to be used in various applications, including greenbelt.

Channell's factory installed stud system allows a full range of options including the installation of a galvanized rack system, horizontal brackets and a two-position swing arm bracket. All of these options can be pre-installed at our factory or installed in the field after vault installation. The SGLB 3048 can easily store 650 Ft. (200 meters) of 0.5" diameter fiber cable, in addition to the industry's largest fiber splice cases.

Meets and is qualified to Telcordia GR-902-CORE specifications. Complies with the applicable elements of ANSI /SCTE 77 2002, for greenbelt placement.

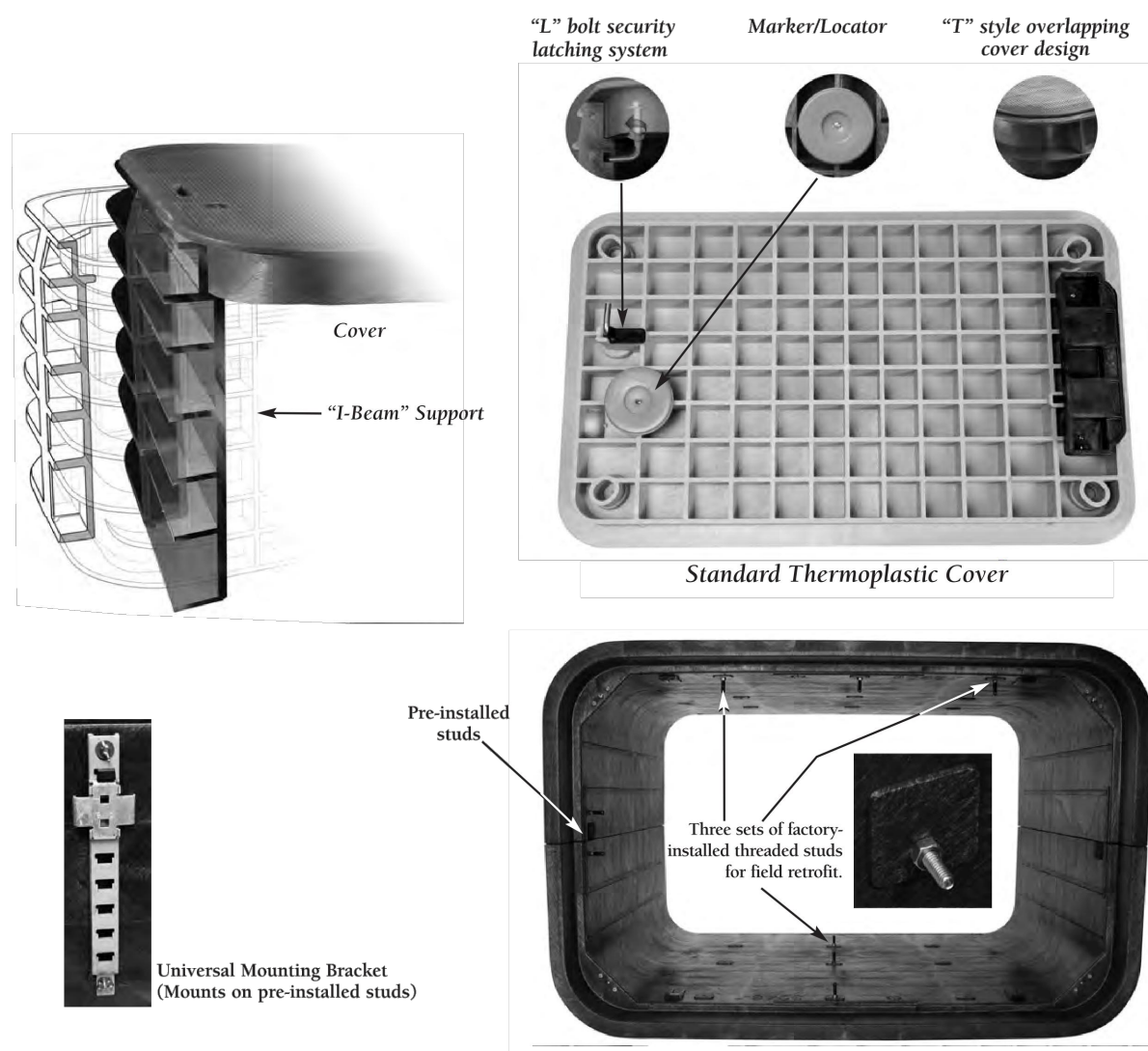


SGLB 3048 shown with bolt-down thermoplastic cover

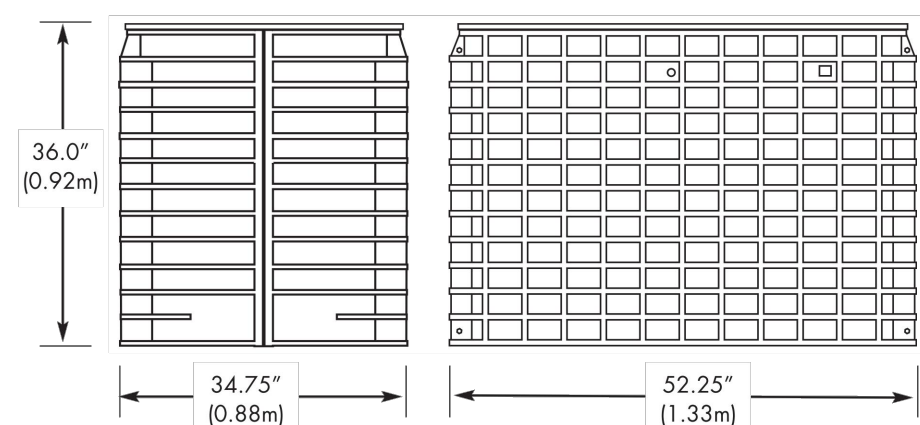
### Features

- Straight sidewall "I-beam" design permits higher vertical load-bearing capacity
- Tall cross-ribbed sidewall design eliminates sidewall deflection in extreme soil conditions securing box placement during final grade
- High quality HDPE body with cross-ribbed design and additional molded-in strength member carries load evenly across sidewall
- Solid, single piece thermoplastic covers with a variety of logo markings
- Universal "L" bolt security system (available only on thermoplastic covers) eliminates the worry of the loss of cover bolts
- Unique "T" style overlapping cover design improves appearance and reduces soil migration into box
- Four winterized drop access points are standard with all SGLB 3048 units
- Cable locator/marker device can be added in a protected recessed area on the underside of the cover

The straight sidewall design of the "Shutter Box" Series grade level boxes allows the load-bearing surface to be fully supported by the "I-Beam" strength of the full sidewall. HDPE waffle-design of the box body distributes the cover load over the strongest section of the box wall. Additionally, the sidewall high rib design greatly reduces or totally eliminates sidewall deflection.



### Specifications



SGLB 3048 36 with storage for 650 ft. (200 meters) of 0.5" diameter fiber optic cable

### Ordering Information

|                                                          |      |                                                                             |    |   |     |   |     |
|----------------------------------------------------------|------|-----------------------------------------------------------------------------|----|---|-----|---|-----|
|                                                          | SGLB | 3048                                                                        | 36 | 1 | XXX | X | AXX |
| Description                                              |      |                                                                             |    |   |     |   |     |
| Cover Size                                               | 3048 | – 30" x 48"                                                                 |    |   |     |   |     |
| Body Depth                                               | 36   | – 36"                                                                       |    |   |     |   |     |
| Cover Color                                              | 1    | – Green                                                                     |    |   |     |   |     |
| NOTE: Additional colors available                        |      |                                                                             |    |   |     |   |     |
| Cover Identification*                                    | B    | – Broadband                                                                 |    |   |     |   |     |
|                                                          | N    | – Blank                                                                     |    |   |     |   |     |
|                                                          | T    | – Telecommunications                                                        |    |   |     |   |     |
| *NOTE: Customized cover identification marking available |      |                                                                             |    |   |     |   |     |
| Cover Type                                               | 1    | – Solid Thermoplastic                                                       |    |   |     |   |     |
| Cover Security                                           | 1    | – "L" bolt (Available only on thermoplastic covers)                         |    |   |     |   |     |
|                                                          | 2    | – Bolt-Down                                                                 |    |   |     |   |     |
|                                                          | 3    | – Penta Bolt                                                                |    |   |     |   |     |
| Racking                                                  | 0    | – None (Equipped with right mounting studs for mounting brackets and racks) |    |   |     |   |     |
|                                                          | 1    | – Step Racks (Three 15" racks)                                              |    |   |     |   |     |
|                                                          | 2    | – Swing-arm with Butterfly Mounting Plate                                   |    |   |     |   |     |
|                                                          | 3    | – Step Racks and Swing-arm                                                  |    |   |     |   |     |
|                                                          | 4    | – Sidewall Mounting Plate                                                   |    |   |     |   |     |
|                                                          | 6    | – Step Racks (3) with Universal Mounting Bracket                            |    |   |     |   |     |
| Accessory Options                                        | A04  | – Marker/Locator                                                            |    |   |     |   |     |

Example: SGLB3048361T111A04  
Shutter Box Series GLB 3048, 36" depth, green cover, Telecommunications cover identification, "L" bolt security, step racks installed in body, marker/locator disk (installed on cover)



USA: Channell Commercial Corporation, Temecula, CA • Tel. 952.423.1863 • Fax. 951.296.2322

CANADA: Channell Canada, Inc. • Tel. 905.565.1700 • Fax. 905.565.8080

EUROPE, MIDDLE EAST, AFRICA: Channell Ltd., London, UK • Tel. 44.1689.871522 • Fax. 44.1689.833428

AUSTRALIA, ASIA, PACIFIC RIMS: Channell Pty. Ltd., Sydney, Australia • Tel. 61.2.8884.4111 • Fax. 61.2.8814.8841

WORLDWIDE HEADQUARTERS: Channell Commercial Corporation • Tel. 951.719.2600 • 25040 Yucca Road • P.O. Box 9022 • Temecula, CA 92591-9022 USA

All specifications subject to change without notice.

SGLB is a trademark of Channell Commercial Corporation.

www.channell.com

Printed in U.S.A. CH08-103 01085MTA

## 2 BELL EQUIPMENT E3.2 –NTS

**FINAL APPROVED PLAN**  
File: D11-017-2017  
Date: August 12, 2021  
Barrie No. of Pages: 1

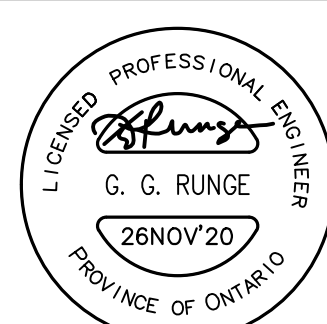
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| 9.  | ISSUED FOR CONSTRUCTION      | 2020/MAY   | GGR     |
| 10. | ISSUED E6.1 FOR TENDER       | 2020/NOV   | GGR     |
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COMMUNICATION  
DETAILS SHEET No.1



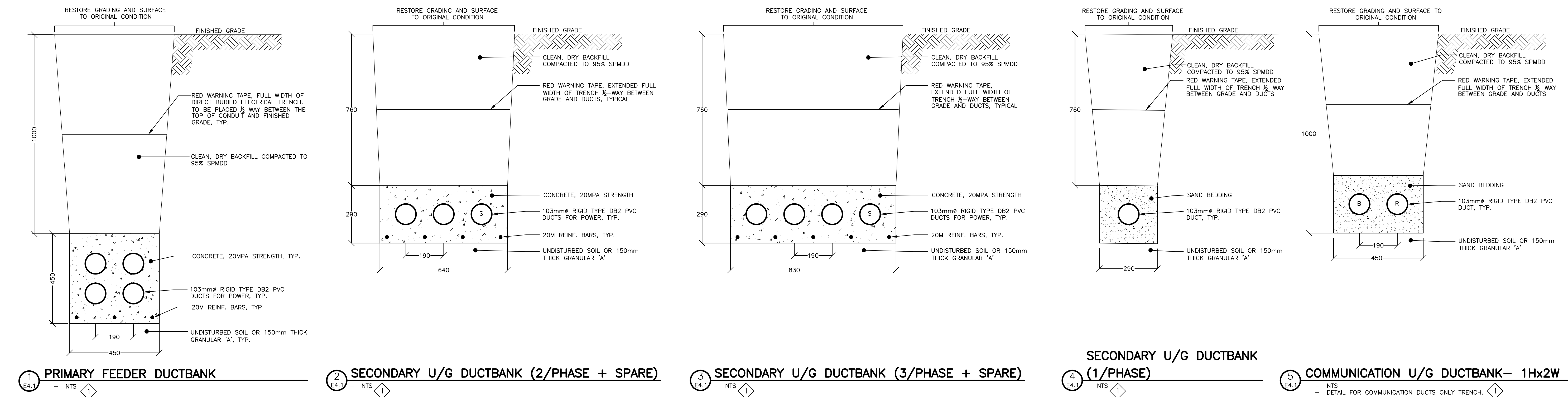
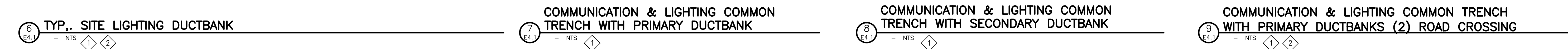
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| CHECKED | GGR | 17026P          | E3.2    |                 |

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www.raiengineers.ca



1 DUCTBANK NOTES:  
DIMENSIONS SHOWN IN mm.  
ALL DUCTS ARE 103mm<sup>2</sup> TYPE PVC DB2, UNLESS OTHERWISE NOTED  
PROVIDE 915mm LONG SWEEP BENDS FOR ALL BENDS: 90°, 45°, AND  
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PROVIDE FISH ROPE IN EACH SPARE DUCT  
INSTALL SPACERS EVERY 1524mm TO ASSEMBLE DUCTBANK. OFFSET OR  
STAGGER SPACERS  
GLUE ALL PVC JOINTS  
PROVIDE END-BELLS WHEN FINISHING DUCTS IN CHAMBER OR WALLS  
B = BELL DUCTS, S = ROGERS DUCTS  
L = LIGHTING, S = SPARE

2 PROVIDE 103mm<sup>2</sup> STREET LIGHTING DUCT WITH HANDHOLES AND POWER  
PEDESTALS AS INDICATED ON DETAIL 2/E/2.1

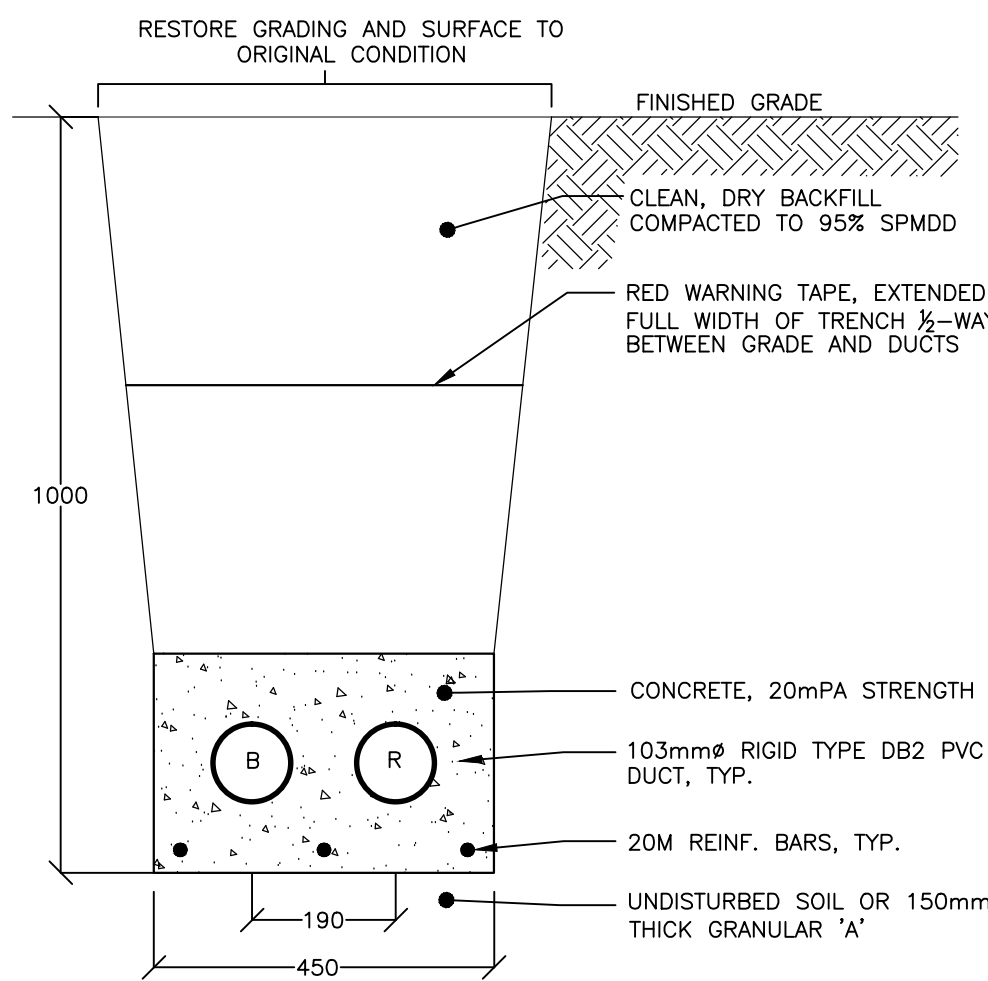
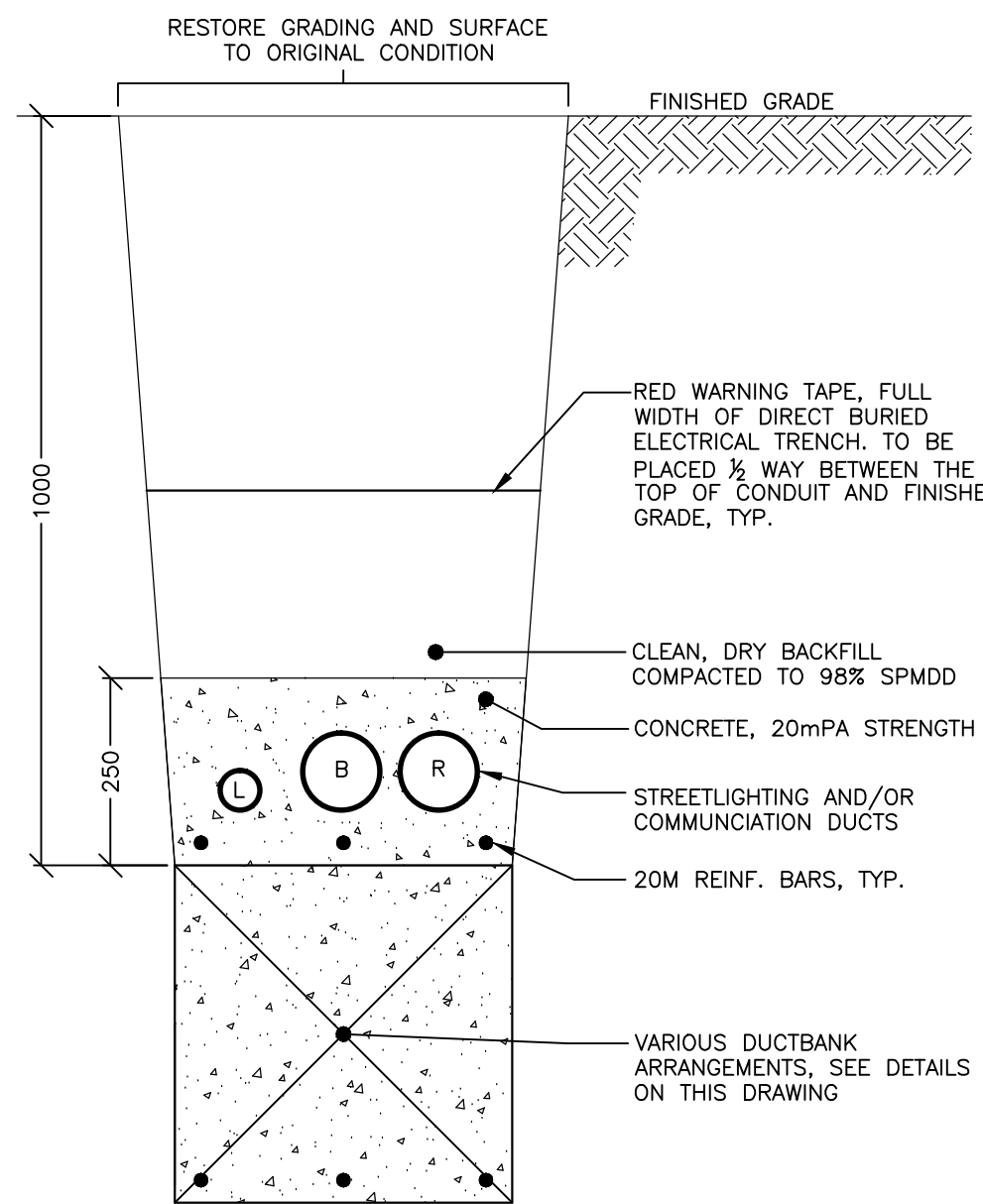
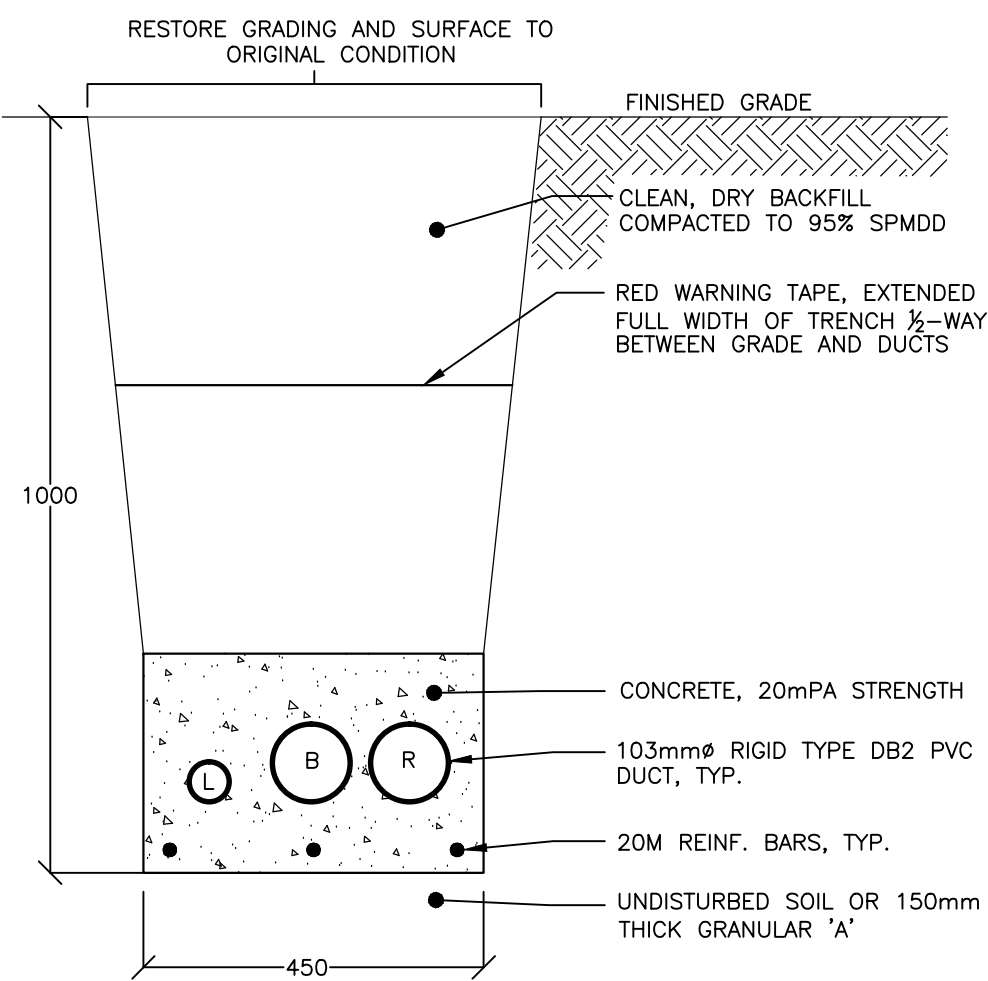
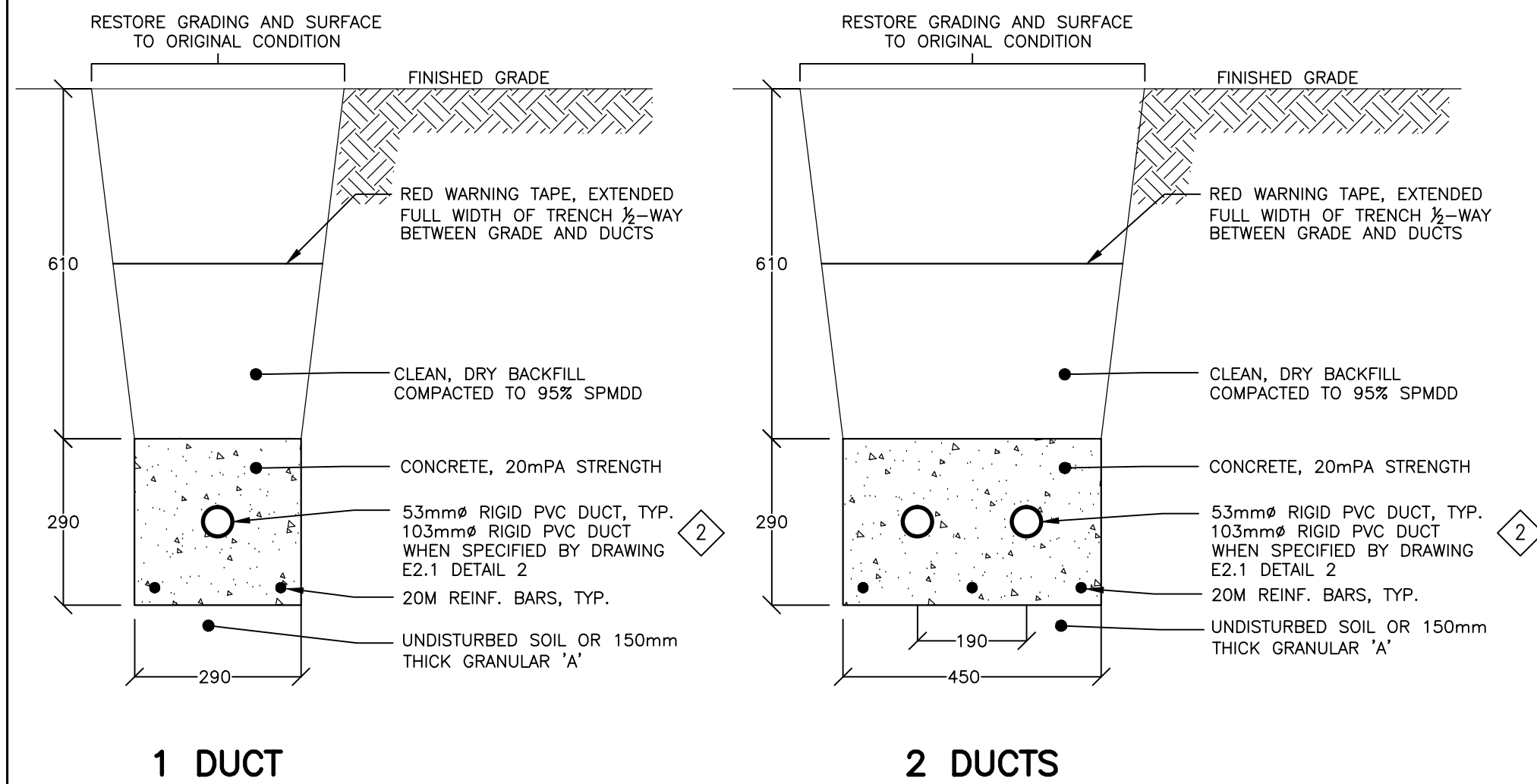


| <p><b>ACCEPTED FOR CONSTRUCTION</b></p> <p><b>INNPOWER CORPORATION</b></p> <p>per ..... TONY MENDICINO</p> <p>Date: ..... MAY 2020</p> | <p><b>FINAL APPROVED PLAN</b></p> <p>File: D11-017-2017</p> <p>Date: August 12, 2021</p> <p> No. of Pages: 1</p> | 7.      | ISSUED FOR ESA PLAN APPROVAL | 2020/01/08 | GGR | <p>1. This drawing is the exclusive property of Runge &amp; Associates Inc. and the reproduction of any part without prior written consent of this office is strictly prohibited.</p> <p>2. The contractor shall verify all dimensions, levels, and datums on site and report any discrepancies or omissions to this office prior to construction.</p> <p>3. This drawing is to be read and understood in conjunction with all other plans and documents applicable to this project.</p> <p>4. Drawing revision must be note "Issued For Construction" before any work commences</p> |  | <p><b>PRATT HANSEN GROUP INC.</b></p> <p><b>BISTRO 6</b></p> <p><b>CITY OF BARRIE</b></p> |  <p><b>RUNGE</b></p> <p>ENGINEERING</p> <p>864 Hurontario Street<br/>P.O. Box 38<br/>Collingwood, ON, L9Y 3Z7<br/>b: (705) 446-3590<br/>f: (705) 446-3588<br/>www.ralengineers.ca</p> | DESIGN                                                                                                                                                                                         | GGR | SCALE: AS SHOWN | DATE | SEPTEMBER, 2018 |  |  |  |  |                                                                                                                                                                                        |       |    |
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| NO.                                                                                                                                    | REVISIONS                                                                                                                                                                                           | DATE    | INITIAL                      |            |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                       |                                                                                           |                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                |     |                 |      |                 |  |  |  |  |                                                                                                                                                                                        |       |    |
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| DRAWN                                                                                                                                  | JS                                                                                                                                                                                                  | PROJECT | DWG. N <sup>o</sup>          |            |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                       |                                                                                           |                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                |     |                 |      |                 |  |  |  |  |                                                                                                                                                                                        |       |    |
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NOTES

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1 TYP., SITE LIGHTING ROAD CROSSING DUCTBANK

2 COMMUNICATION & LIGHTING ROAD CROSSING DUCTBANK

3 COMMUNICATION & LIGHTING ROAD CROSSING WITH PRIMARY DUCTBANK

4 COMMUNICATION ROAD CROSSING DUCTBANK

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per TONY MENDICINO  
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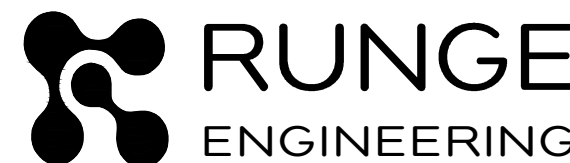
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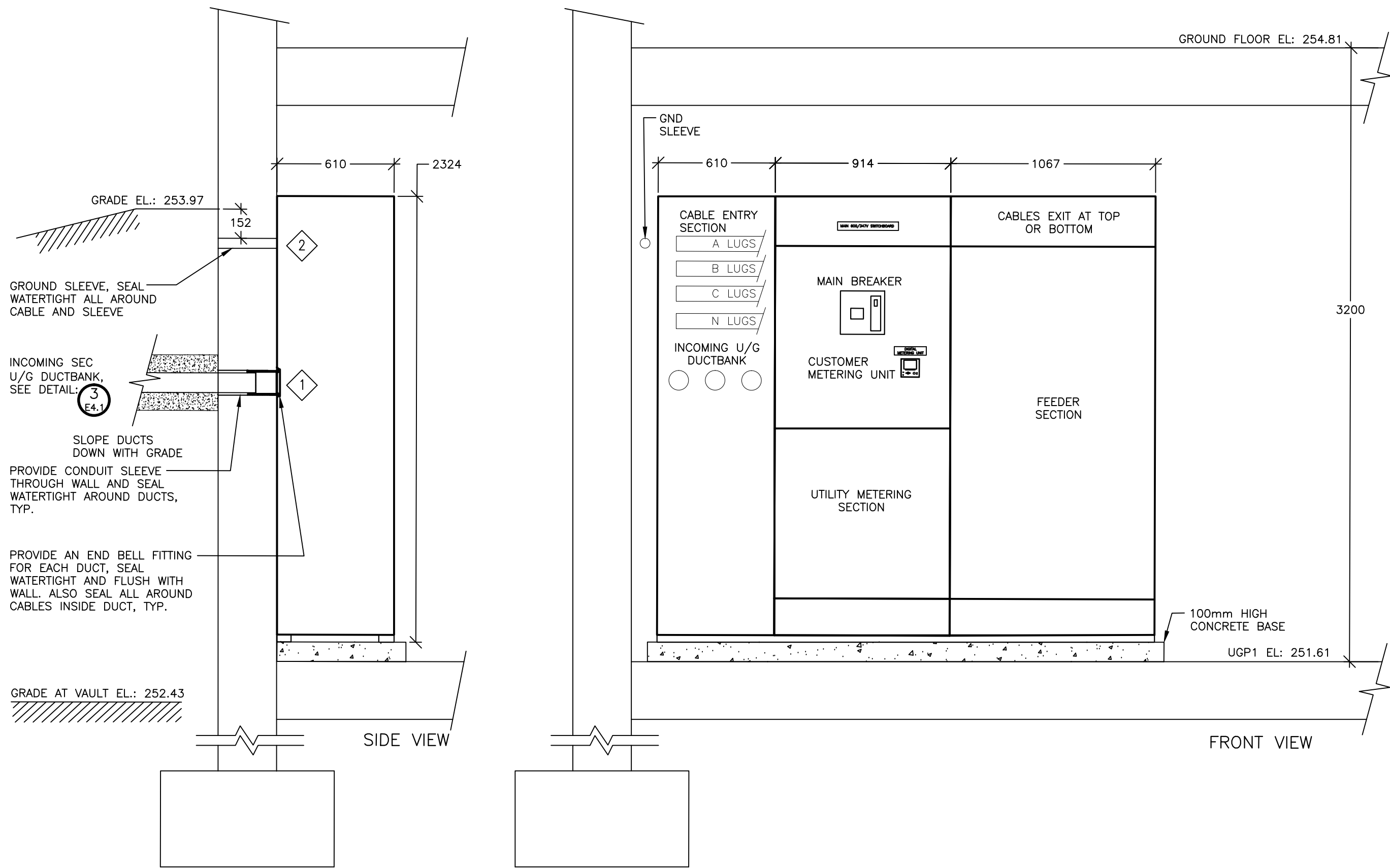
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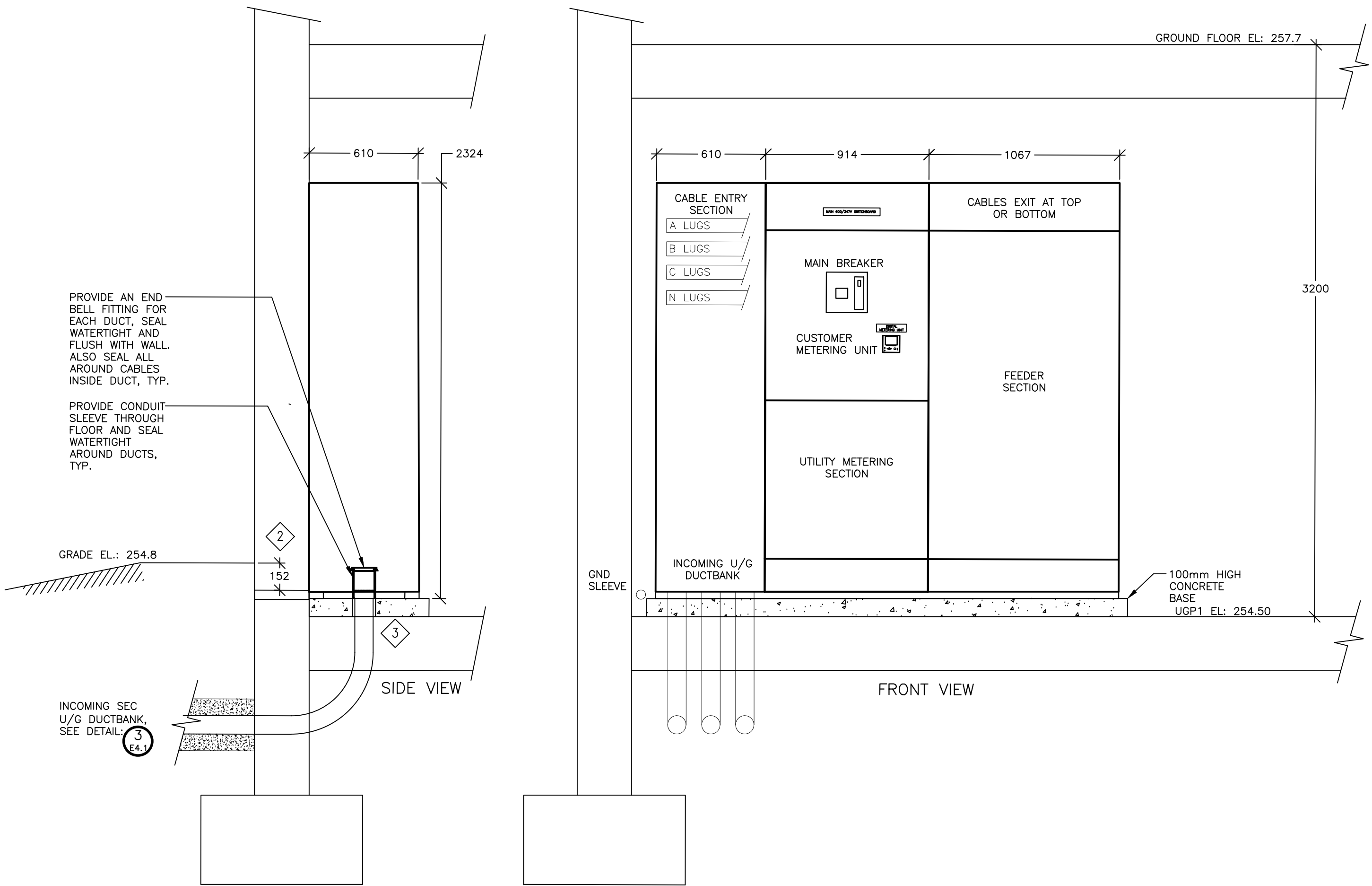
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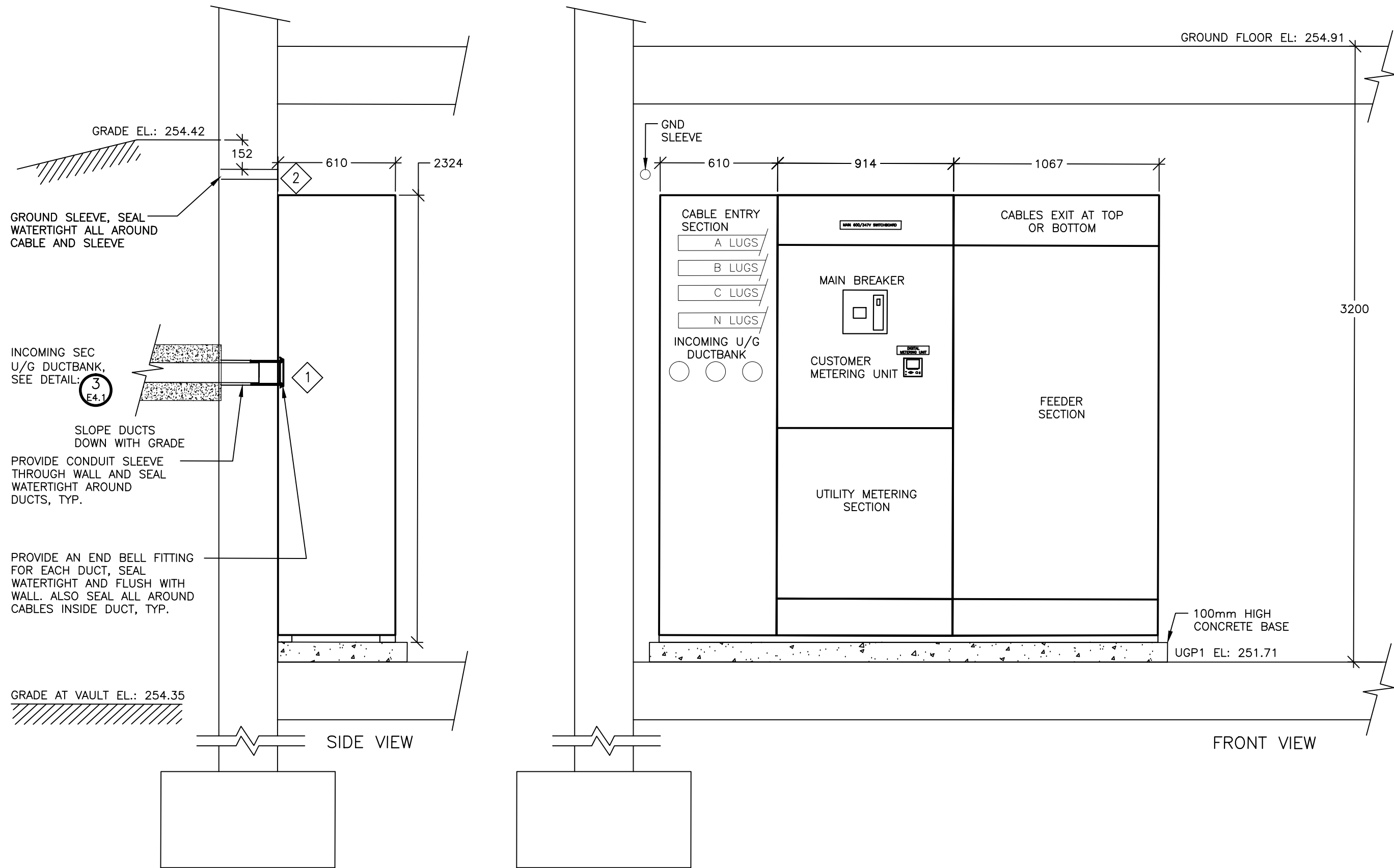
1 MAIN 600V SWITCHBOARD IN BUILDING H1 (SERVICE ENTRANCE RATED) – FUTURE BUILDING

- NTS
- BULK METERING SECTION NOT REQUIRED IN MAIN SWITCHBOARD



2 MAIN 600V SWITCHBOARD IN BUILDING H2 (SERVICE ENTRANCE RATED)

- NTS
- BULK METERING SECTION NOT REQUIRED IN MAIN SWITCHBOARD



3 MAIN 600V SWITCHBOARD IN BUILDING H3 (SERVICE ENTRANCE RATED)

- NTS
- BULK METERING SECTION NOT REQUIRED IN MAIN SWITCHBOARD

| NOTES |                                                                                        |
|-------|----------------------------------------------------------------------------------------|
| 1     | CORE DRILL HOLES THRU CONCRETE WALL, COORDINATE DUCT OPENINGS WITH BUILDING CONTRACTOR |
| 2     | GROUND SLEEVE, SEAL WATERTIGHT ALL AROUND CABLE AND SLEEVE                             |
| 3     | COORDINATE UNDERGROUND DUCTS TO SWITCHBOARD WITH BUILDING CONTRACTOR.                  |

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Date: MAY 2020

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File: D11-017-2017  
Date: August 12, 2021  
Barrie No. of Pages: 21

| 7.  | ISSUED FOR ESA PLAN APPROVAL | 2020/01/08 | GGR     |
|-----|------------------------------|------------|---------|
| 8.  | ISSUED FOR TENDER            | 2020/02/13 | GGR     |
| 9.  | ISSUED FOR CONSTRUCTION      | 2020/MAY   | GGR     |
| 10. | ISSUED E6.1 FOR TENDER       | 2020/NOV   | GGR     |
| 11. | UPDATED CIVIL BASE PLAN      | 2021/MAR   | DL      |
| NO. | REVISIONS                    | DATE       | INITIAL |

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PRATT HANSEN GROUP INC.  
BISTRO 6  
CITY OF BARRIE

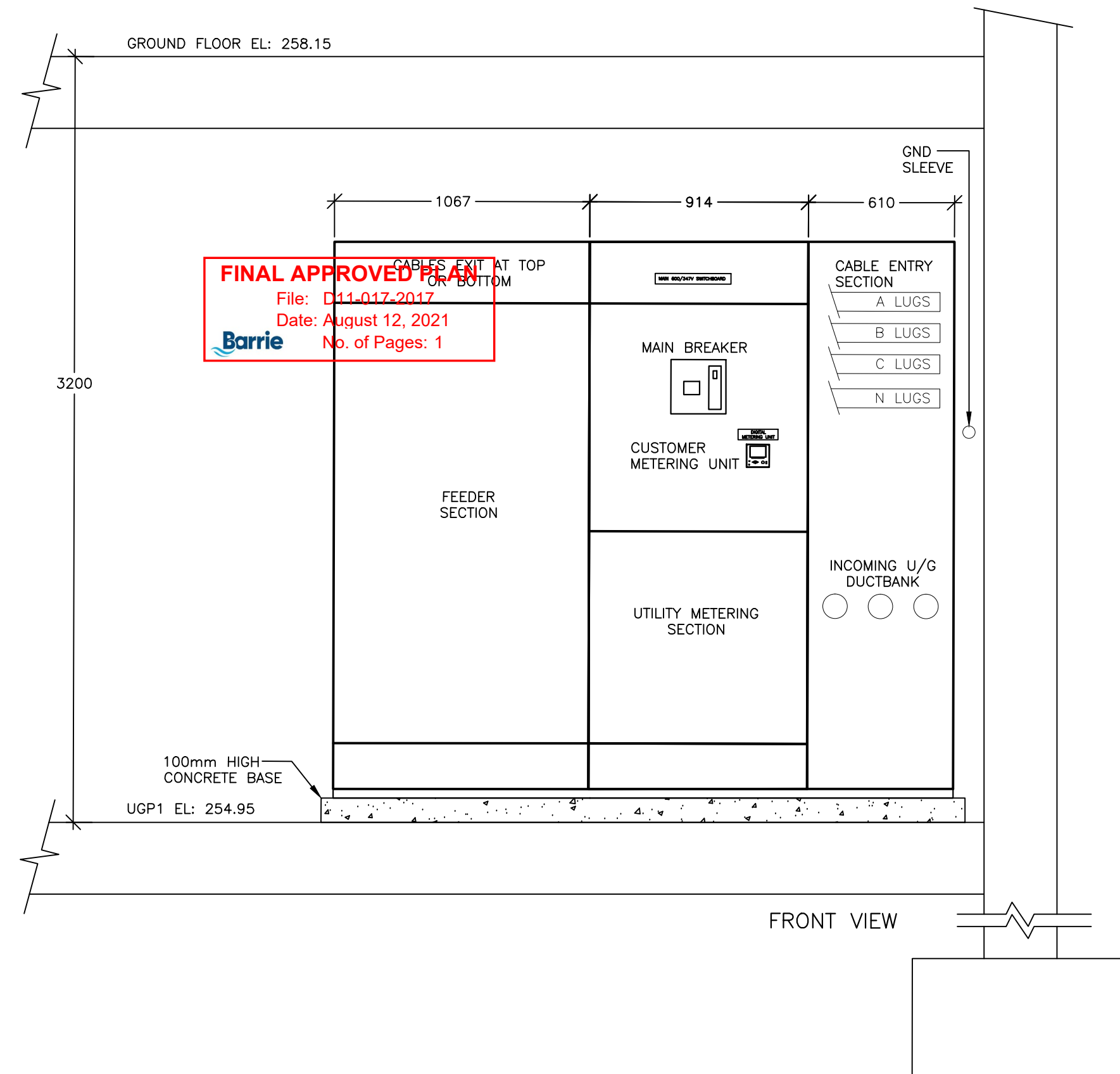
ELEVATION DETAILS  
SHEET No.1



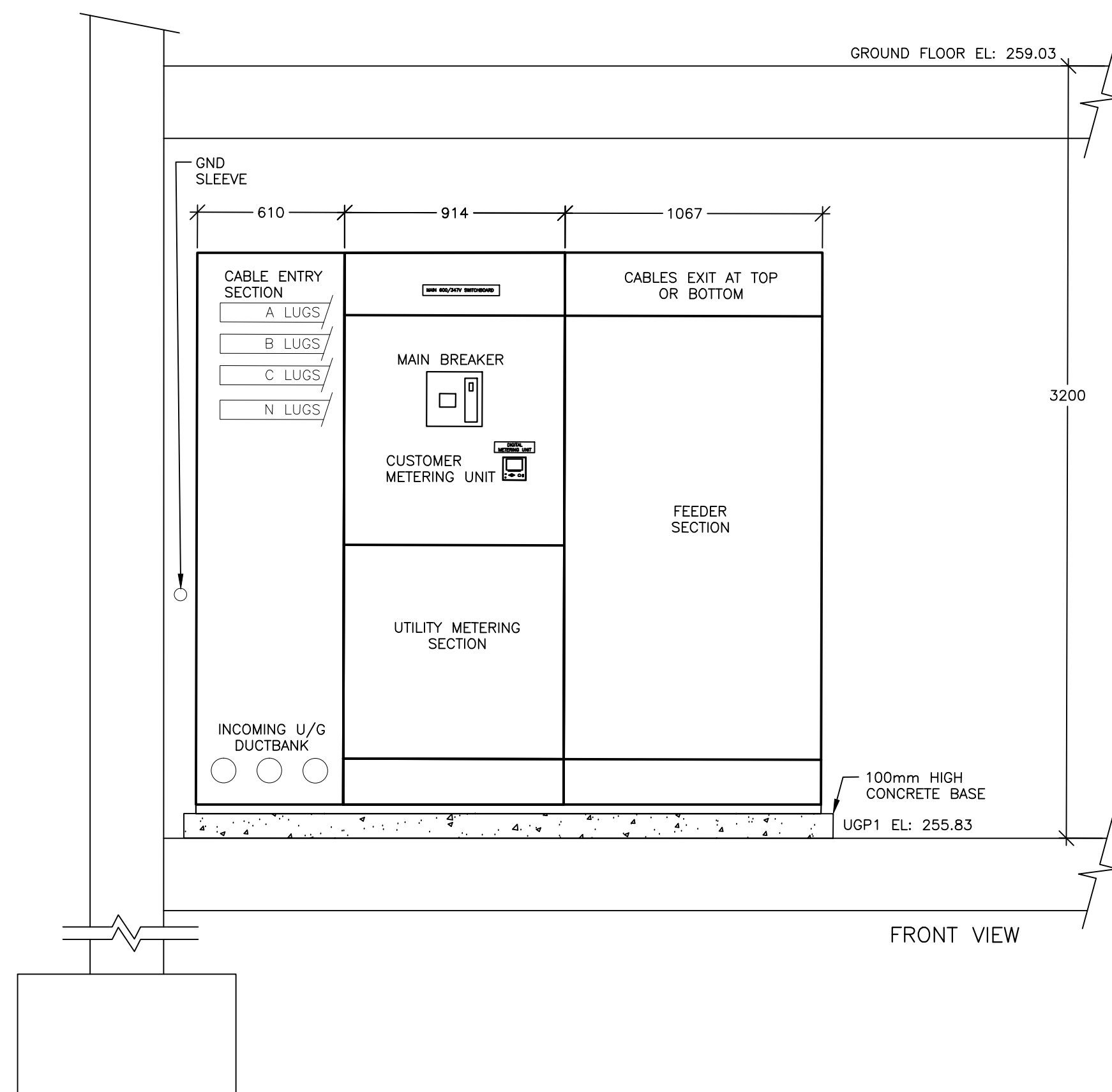
| DESIGN  | GGR | SCALE: AS SHOWN   | DATE             | SEPTEMBER, 2018 |
|---------|-----|-------------------|------------------|-----------------|
| DRAWN   | JS  | PROJECT<br>17026P | DWG. No.<br>E4.3 |                 |
| CHECKED | GGR |                   |                  |                 |

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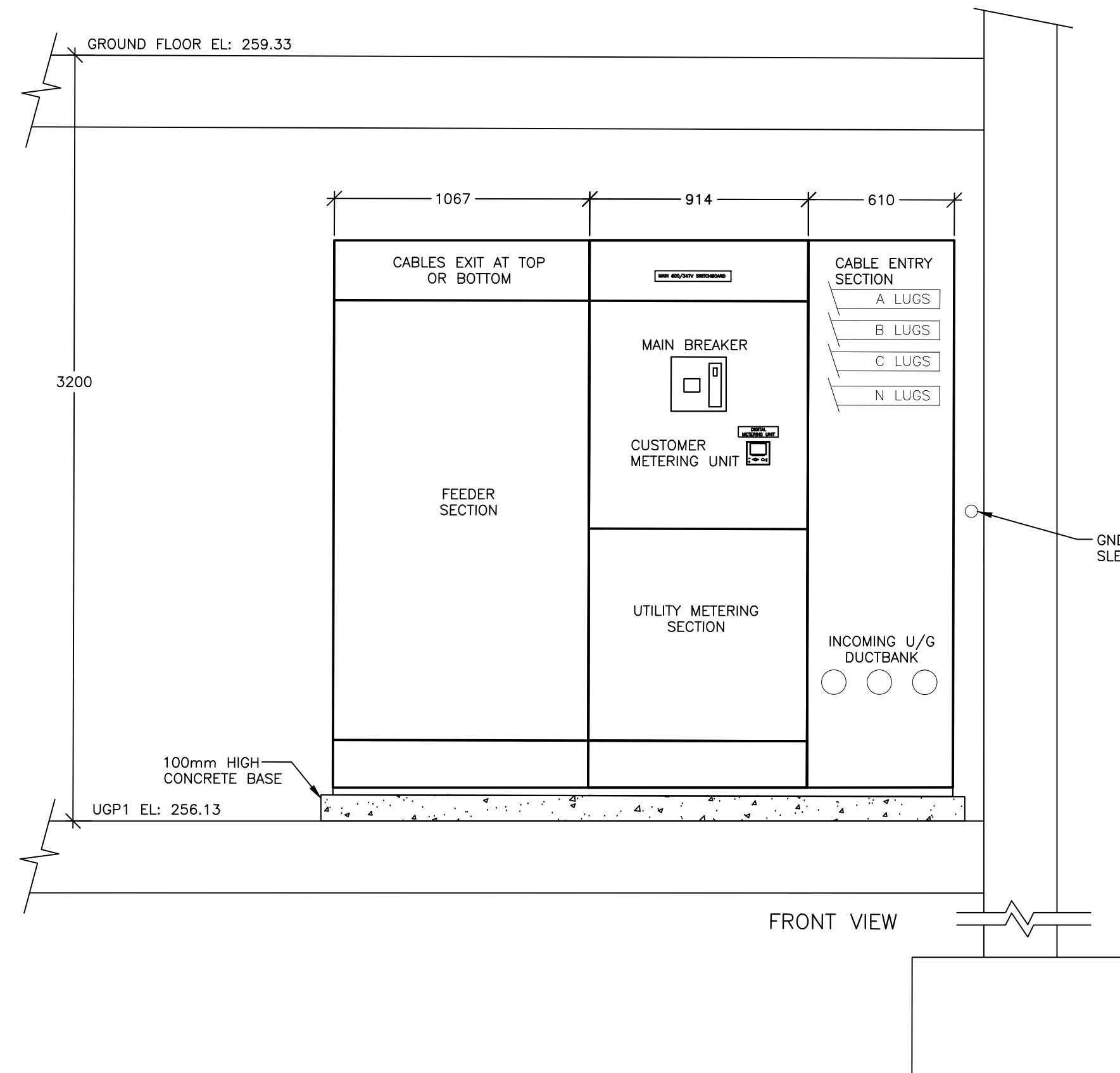




E4.4 - NTS  
- BULK METERING SECTION NOT REQUIRED IN MAIN SWITCHBOARD



E4.4 - NTS  
- BULK METERING SECTION NOT REQUIRED IN MAIN SWITCHBOARD



E4.4 - NTS  
- BULK METERING SECTION NOT REQUIRED IN MAIN SWITCHBOARD

- 1 CORE DRILL HOLES THRU CONCRETE WALL, COORDINATE DUCT OPENINGS WITH BUILDING CONTRACTOR
- 2 GROUND SLEEVE, SEAL WATERTIGHT ALL AROUND CABLE AND SLEEVE

|            |                              |             |                |
|------------|------------------------------|-------------|----------------|
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|         |     |                   |         |                 |
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per ..... TONY MENDICINO  
Date: ..... MAY 2020

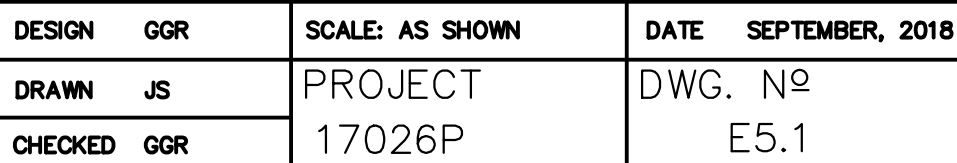
No. of Pages: 1

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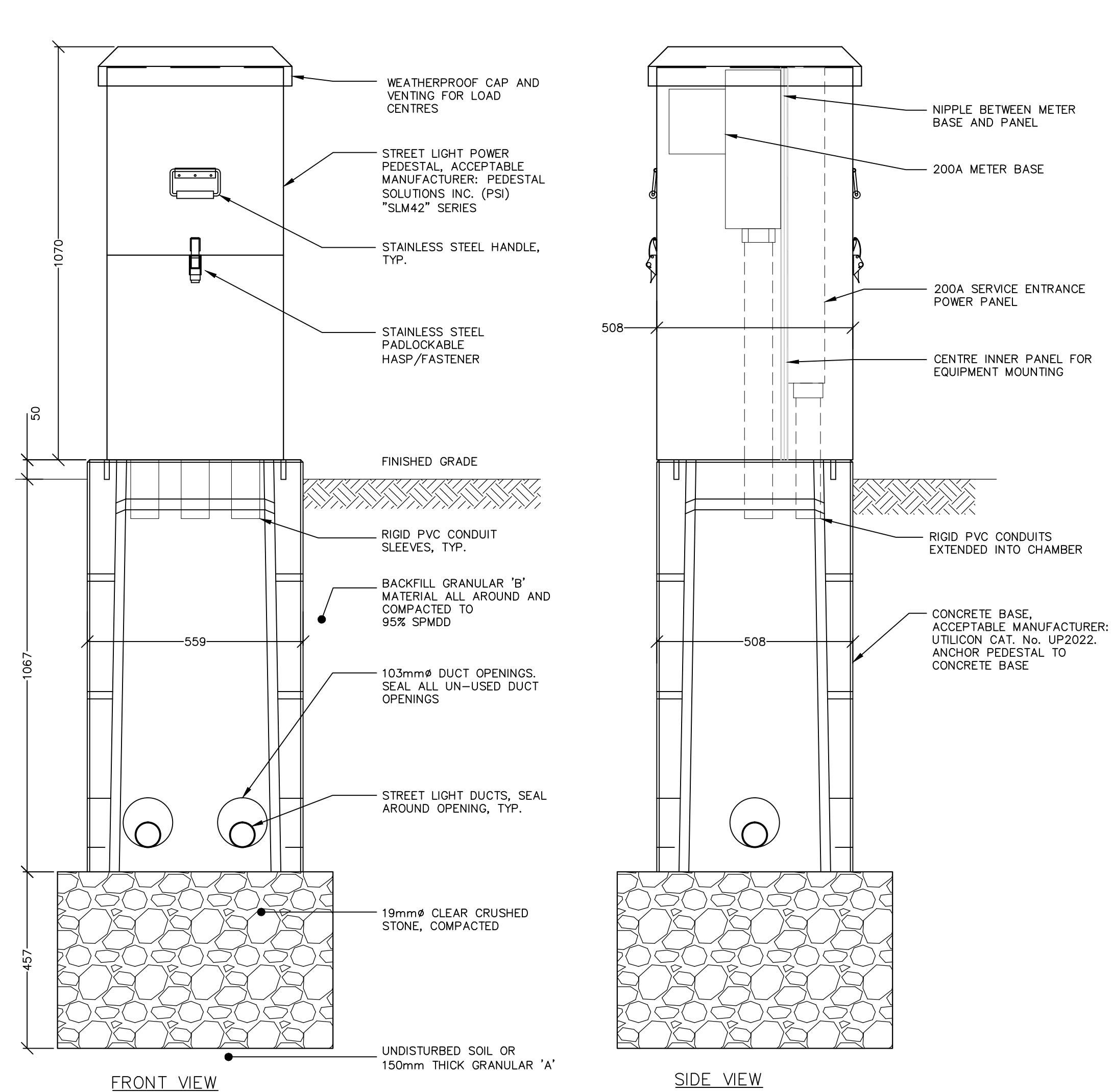


## SINGLE LINE DIAGRAM

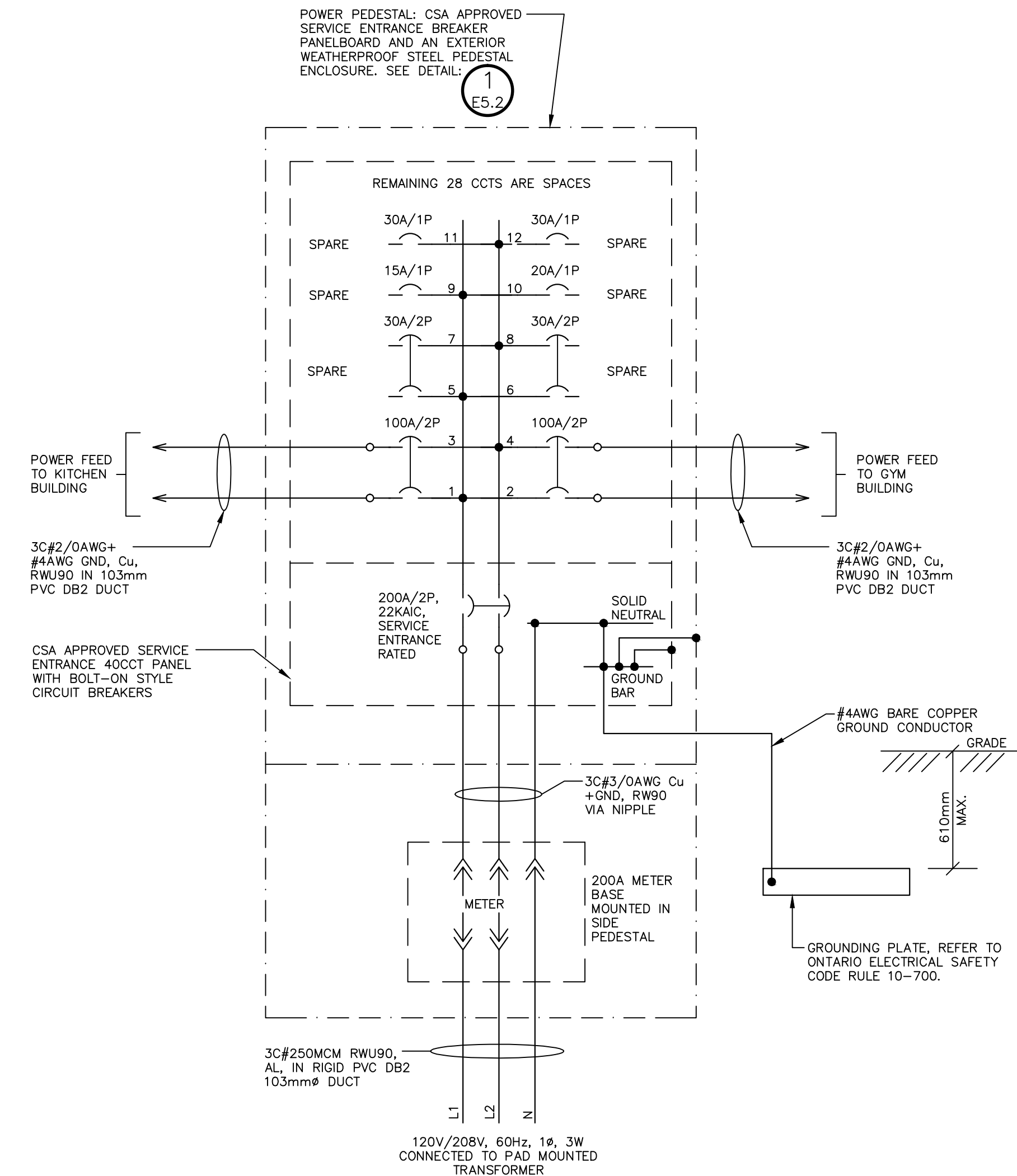


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**1 PP-A: METERED POWER PEDESTAL DETAIL**  
 -NTS, DIMENSIONS SHOWN IN MILLIMETRES (mm)



**2 "PP-A" SERVICE ENTRANCE METERED POWER PEDESTAL WIRING DIAGRAM**  
 - NTS, DIMENSIONS SHOWN IN MILLIMETRES (mm)

**ACCEPTED FOR CONSTRUCTION**  
**INNPOWER CORPORATION**

per TONY MENDICINO  
 Date: MAY 2020

**FINAL APPROVED PLAN**  
 File: D11-017-2017  
 Date: August 12, 2021  
 No. of Pages: 1

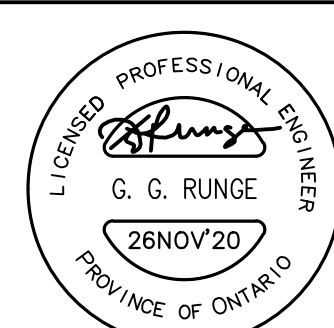
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**PRATT HANSEN GROUP INC.**  
**BISTRO 6**  
**CITY OF BARRIE**

**ELECTRICAL POWER PEDESTAL**  
**PP-A DETAILS**



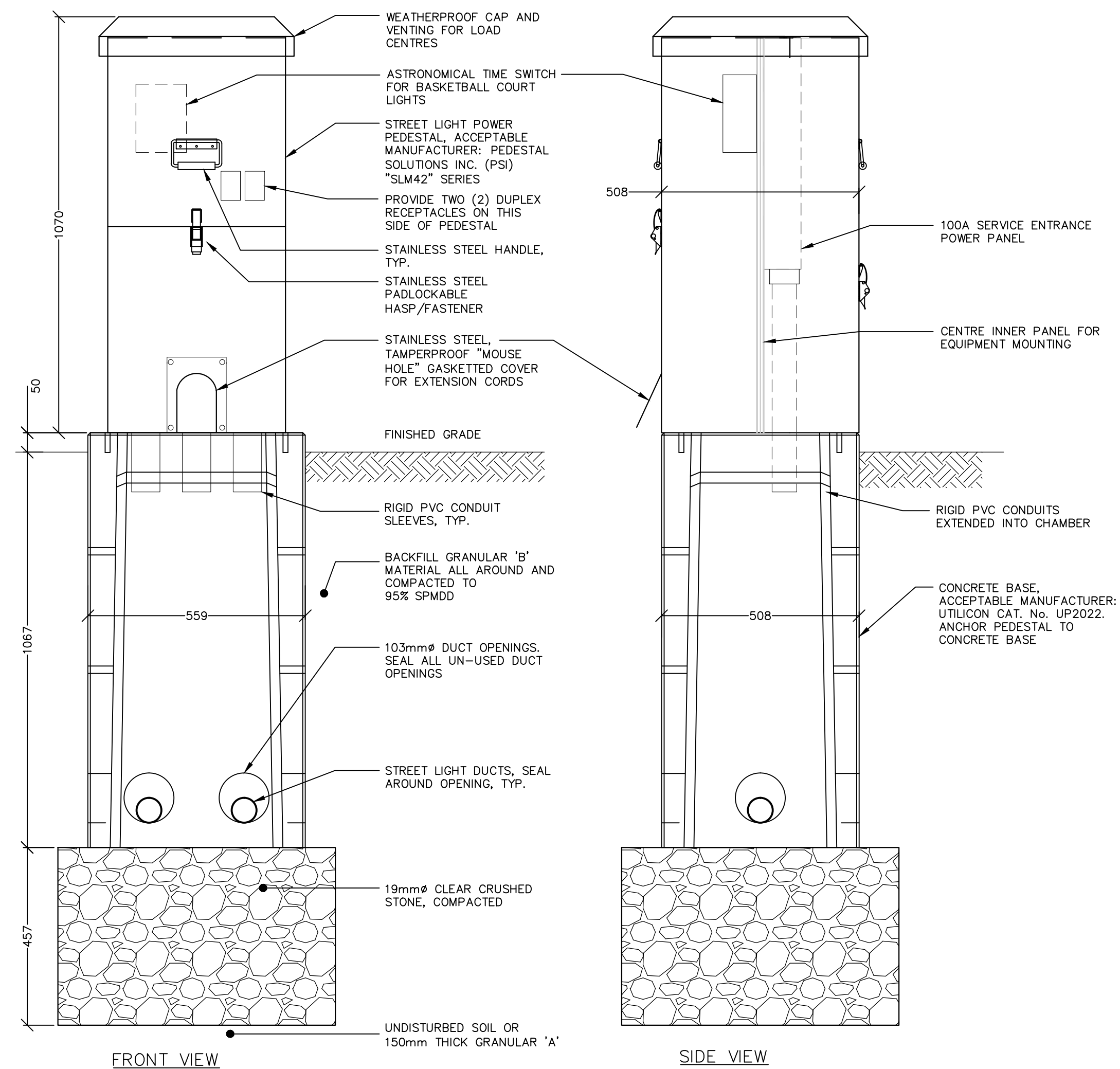
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| DRAWN   | JS  | PROJECT         | DWG. NO. | E5.2            |
| CHECKED | GGR | 17026P          |          |                 |

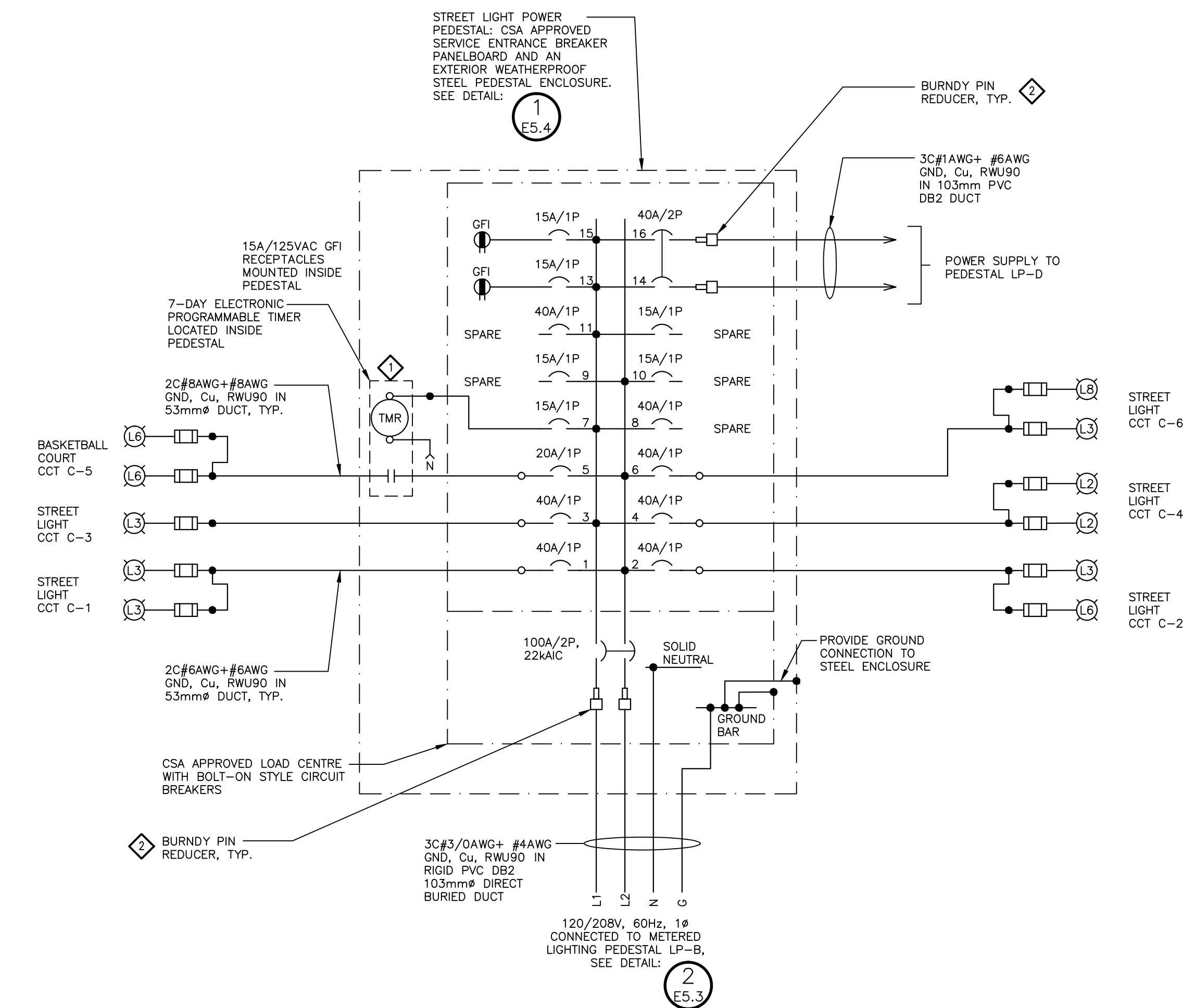


|         |     |                   |         |                 |
|---------|-----|-------------------|---------|-----------------|
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| DRAWN   | JS  | PROJECT<br>17026P | DWG. NO |                 |
| CHECKED | GGR |                   | E5.3    |                 |





**1**  
E5.4  
**LP-C: UNMETERED LIGHTING PEDESTAL DETAIL**  
-NTS, DIMENSIONS SHOWN IN MILLIMETRES (mm)



- 1 OPERATE TIMER: 6pm - 11pm
- 2 IN LIEU OF PIN REDUCERS, PROVIDE A JUNCTION BOX WITH POWER DISTRIBUTION BLOCKS TO TRANSITION CONDUCTORS TO FEEDER BREAKER. LOCATE JUNCTION BOX INSIDE PEDESTAL.

**FINAL APPROVED PLAN**  
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BISTRO 6  
CITY OF BARRIE

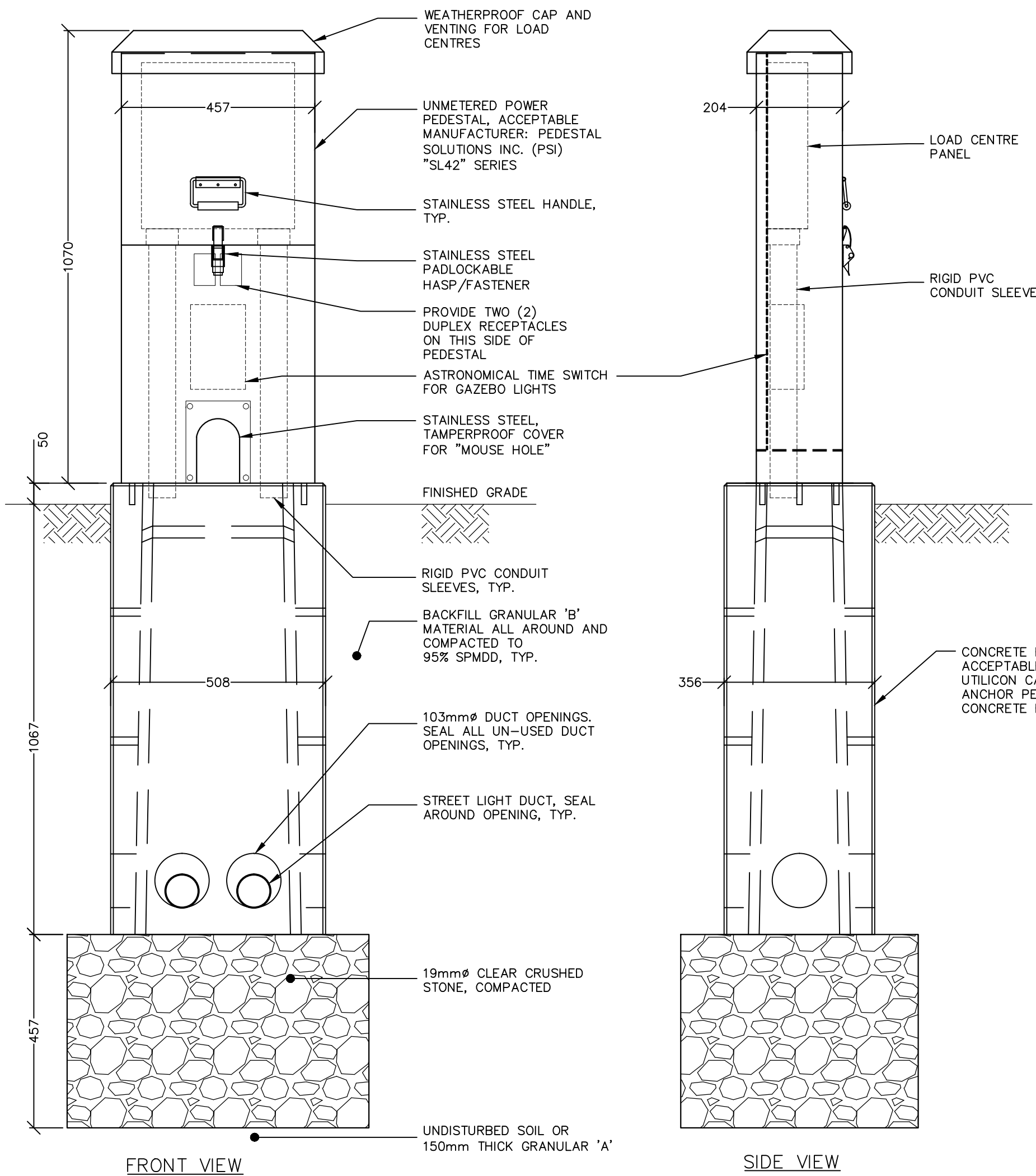
ELECTRICAL LIGHTING PEDESTAL  
LP-C DETAILS



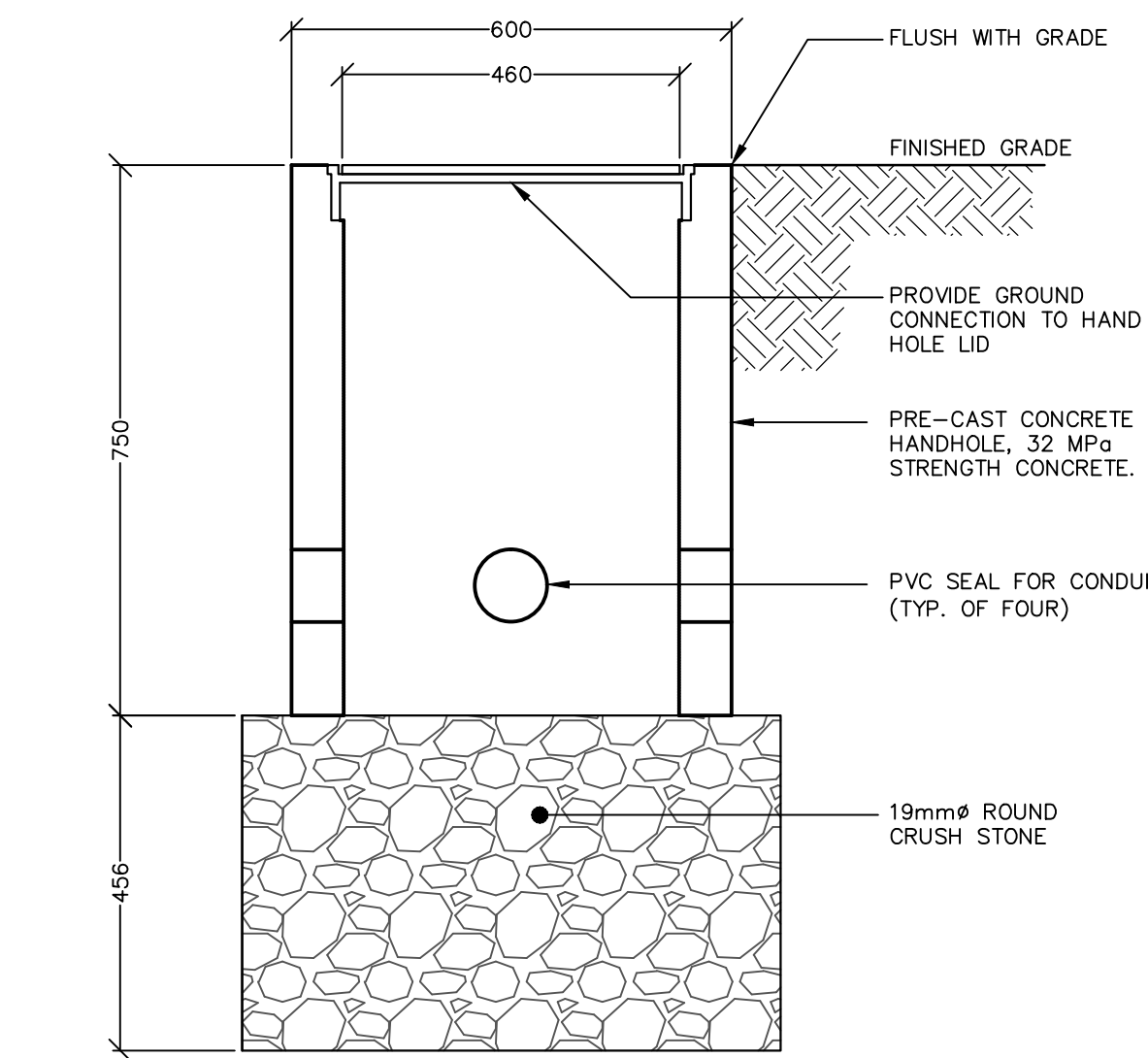
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| CHECKED | GGR | 17026P          | E5.4     |                 |

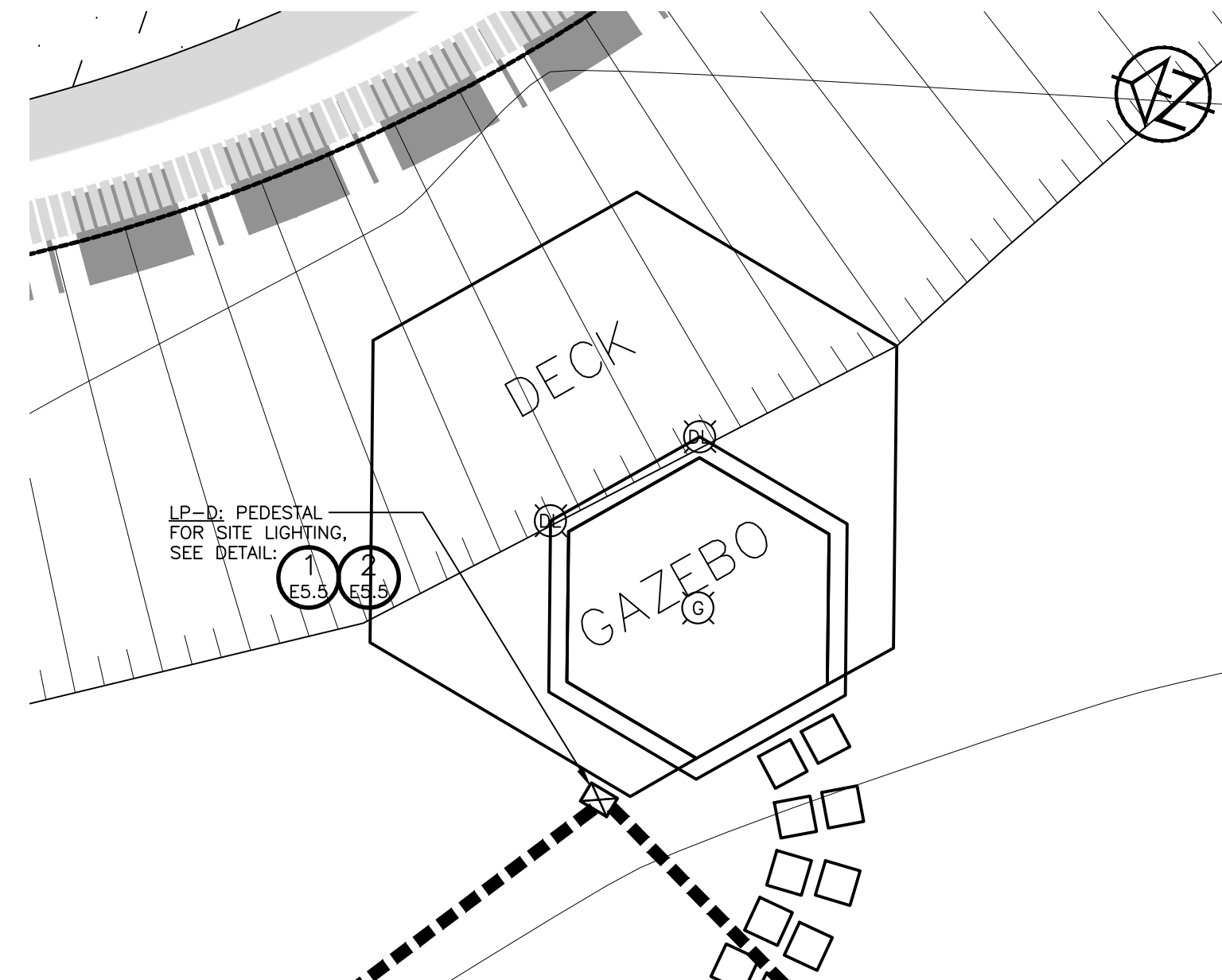




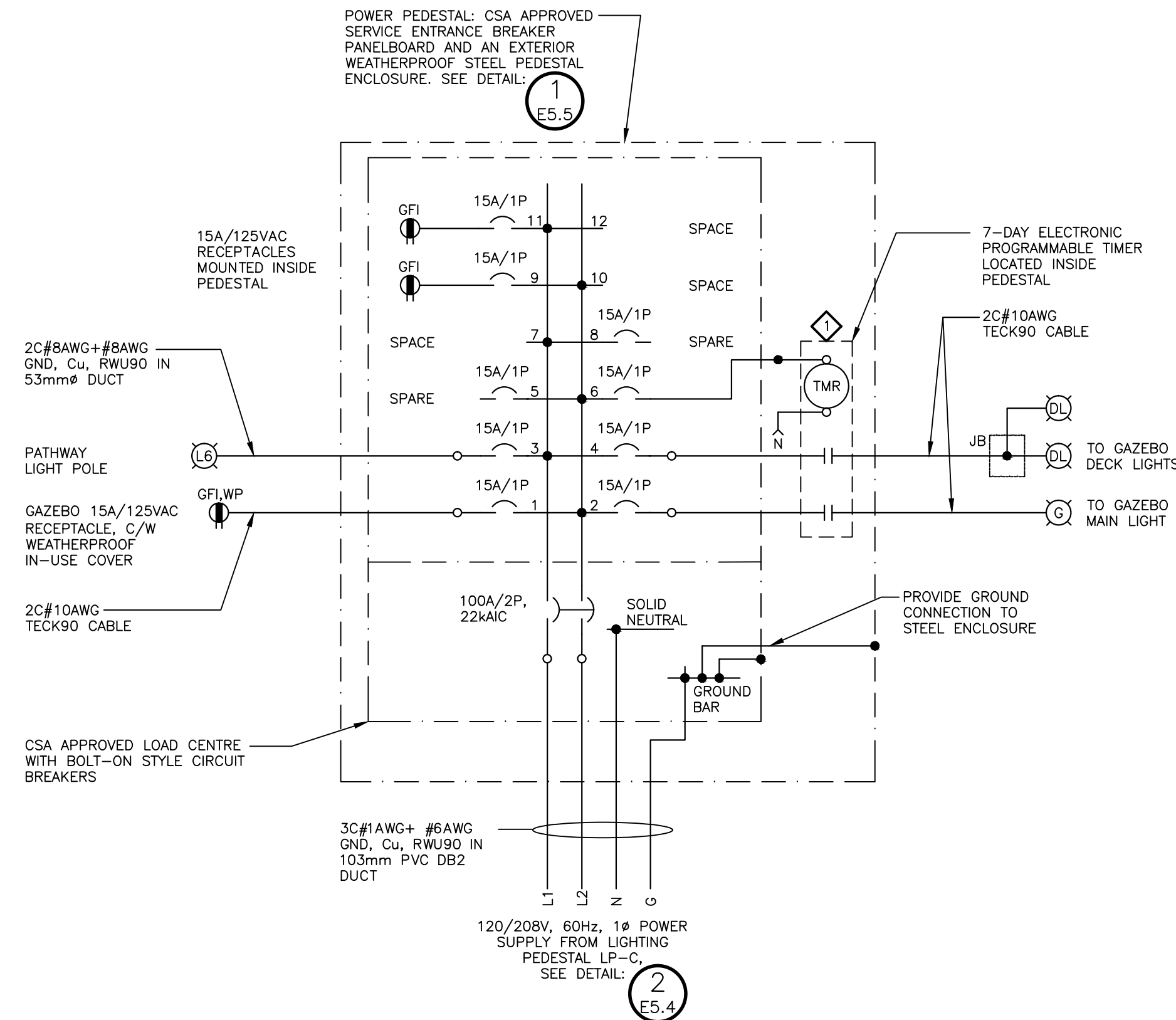
1 LP-D: UNMETERED GAZEBO POWER PEDESTAL DETAIL  
E5.5 - NTS, DIMENSIONS SHOWN IN MILLIMETRES (mm)



3 HAND HOLE DETAIL  
E5.5 - NTS, DIMENSIONS SHOWN IN MILLIMETRES (mm)  
- REFERENCE OPSD 2112.02 AND 2117.02 STANDARDS  
- TYPICAL DETAIL FOR HANDHOLES HH-1 TO HH-7



4 GAZEBO SITE PLAN LAYOUT  
E5.5 - SCALE 1:10

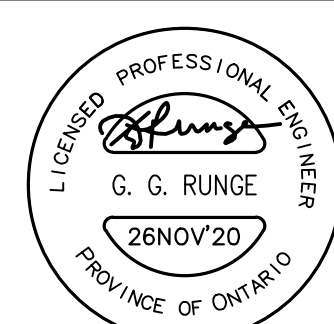


2 "LP-D" UNMETERED LIGHTING PEDESTAL WIRING DIAGRAM  
E5.5 - NTS, DIMENSIONS SHOWN IN MILLIMETRES (mm)  
- LOCATION OF ALL LIGHTS AND RECEPTACLE ON GAZEBO TO BE CONFIRMED DURING CONSTRUCTION  
◇ OPERATE TIMER: 6pm - 11pm

FINAL APPROVED PLAN  
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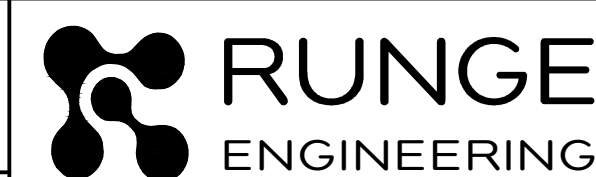
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BISTRO 6  
CITY OF BARRIE

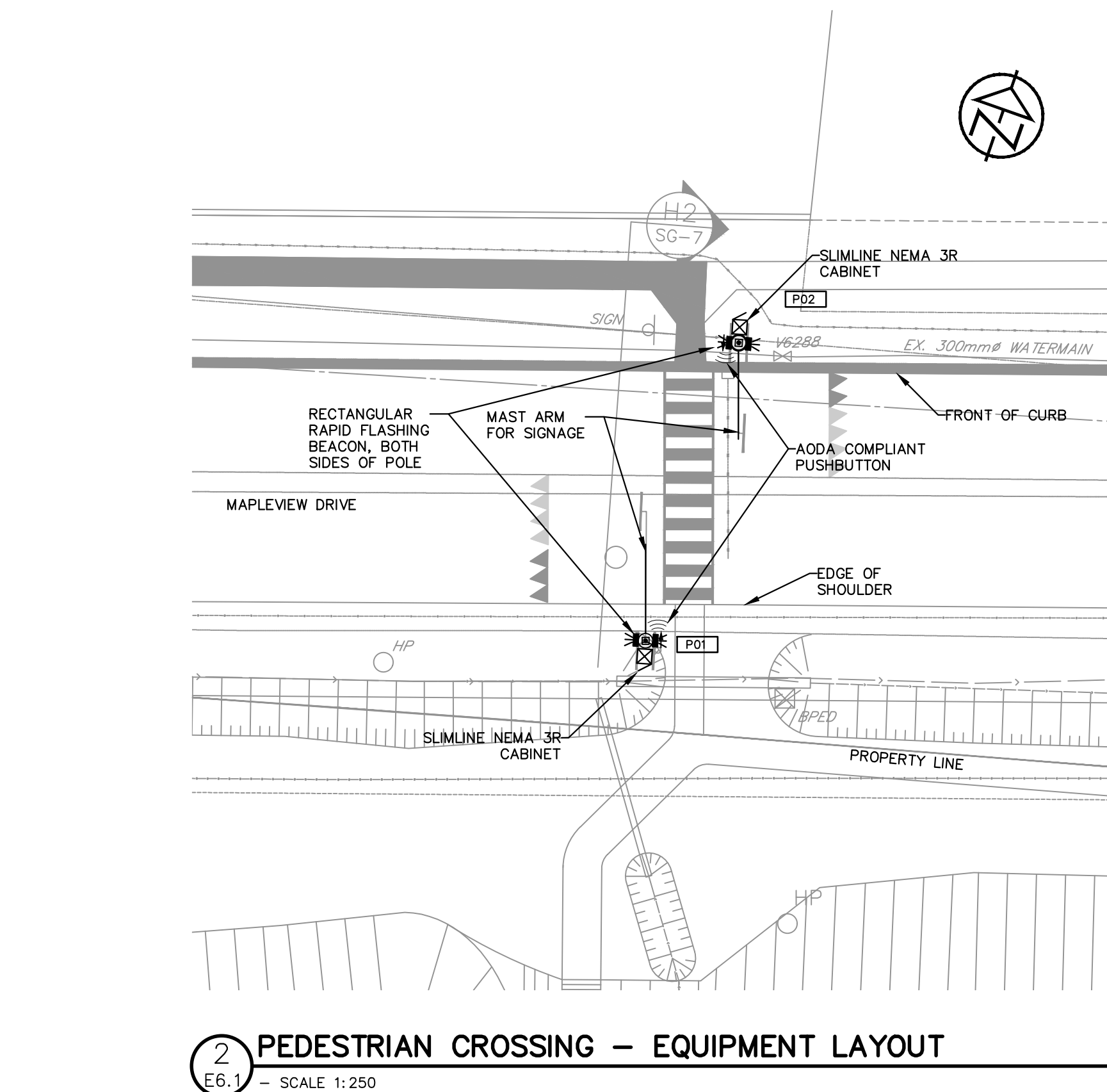
ELECTRICAL LIGHTING PEDESTAL  
LP-D DETAILS



|         |     |                 |         |                 |
|---------|-----|-----------------|---------|-----------------|
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| CHECKED | GGR | 17026P          | E5.5    |                 |

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## PX0 GENERAL SPECIFICATIONS

## 1) DEFINITIONS

- ENGINEER: RUNGE AND ASSOCIATES INC.
- CONTRACTOR: THE CONTRACTOR PERFORMING THE WORK DESCRIBED BELOW.
- LOCAL UTILITY: ALECTRA UTILITIES

## 2) SCOPE OF WORK

THE SCOPE OF WORK OF THIS PROJECT INCLUDES THE FOLLOWING:

- SUPPLY, INSTALL AND TEST TYPE B PXO , PER OTD BOOK 15, INCLUDING:
  - WOOD PILES, MAST ARMS, SIGNAGE, RAPID FLASHING BEACONS, DC CABINET, WIRELESS COMMUNICATION SYSTEM, SOLAR PANEL, SOLAR CHARGING CONTROLLER, BATTERY, DC FLASHER, COUNTDOWN TIMER, PUSH BUTTON, CONDUIT, CABLE AND WIRING (INCLUDING TERMINATION MATERIALS).
- CONTRACTOR TO TEST OPERATION OF PXO IN THE PRESENCE OF THE ENGINEER.
- CONTRACTOR TO COORDINATE AND ARRANGE FOR COMPACTION TESTING AND PROVIDE TEST RESULTS TO ENGINEER AS INDICATED ON CONTRACT DRAWINGS.
- ALL WORK MUST BE COMPLETED IN ACCORDANCE WITH THE ONTARIO ELECTRICAL SAFETY CODE (LATEST EDITION).
- UNDERGROUND WORK SHALL BE COMPLETED IN ACCORDANCE WITH CURRENT ONTARIO PROVINCIAL STANDARD SPECIFICATIONS AND DRAWINGS AVAILABLE AT THE ONTARIO PROVINCIAL GOVERNMENT WEBSITE.

### 3) CONTRACTOR APPROVAL

- \*THE OWNER OR ENGINEER SHALL HAVE THE RIGHT TO REQUIRE THE CONTRACTOR TO SUBMIT PROOF OF PREVIOUS EXPERIENCE AND EMPLOYEE QUALIFICATIONS. THE OWNER SHALL HAVE THE RIGHT TO INVESTIGATE SUCH PROOF PRIOR TO AWARDED THE CONTRACT TO THE CONTRACTOR.

#### 4) INSPECTION REQUIREMENTS

- THE CONTRACTOR SHALL ACQUIRE ALL PERMITS REQUIRED BY LOCAL AUTHORITIES INCLUDING ELECTRICAL SAFETY AUTHORITY. INCLUDE ALL ASSOCIATED COSTS IN TENDER AMOUNT.
- THE CONTRACTOR SHALL BE FULLY RESPONSIBLE TO ARRANGE AND PAY FOR ALL REQUIRED INSPECTIONS.
- UPON COMPLETION OF WORK, SUBMIT CONNECTION AUTHORIZATION FROM THE INSPECTION AUTHORITY TO THE ENGINEER.

## 5) TRENCHING AND BACKFILLING

- CONTRACTOR TO REINSTATE ALL DISTURBED AREAS TO ORIGINAL OR BETTER CONDITION.
- GRASSED AREAS TO BE REINSTATED WITH 100mm TOPSOIL AND NURSERY SOD.
- BACKFILL MUST BE COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR MAXIMUM DRY DENSITY.

## 6) MATERIAL SPECIFICATIONS

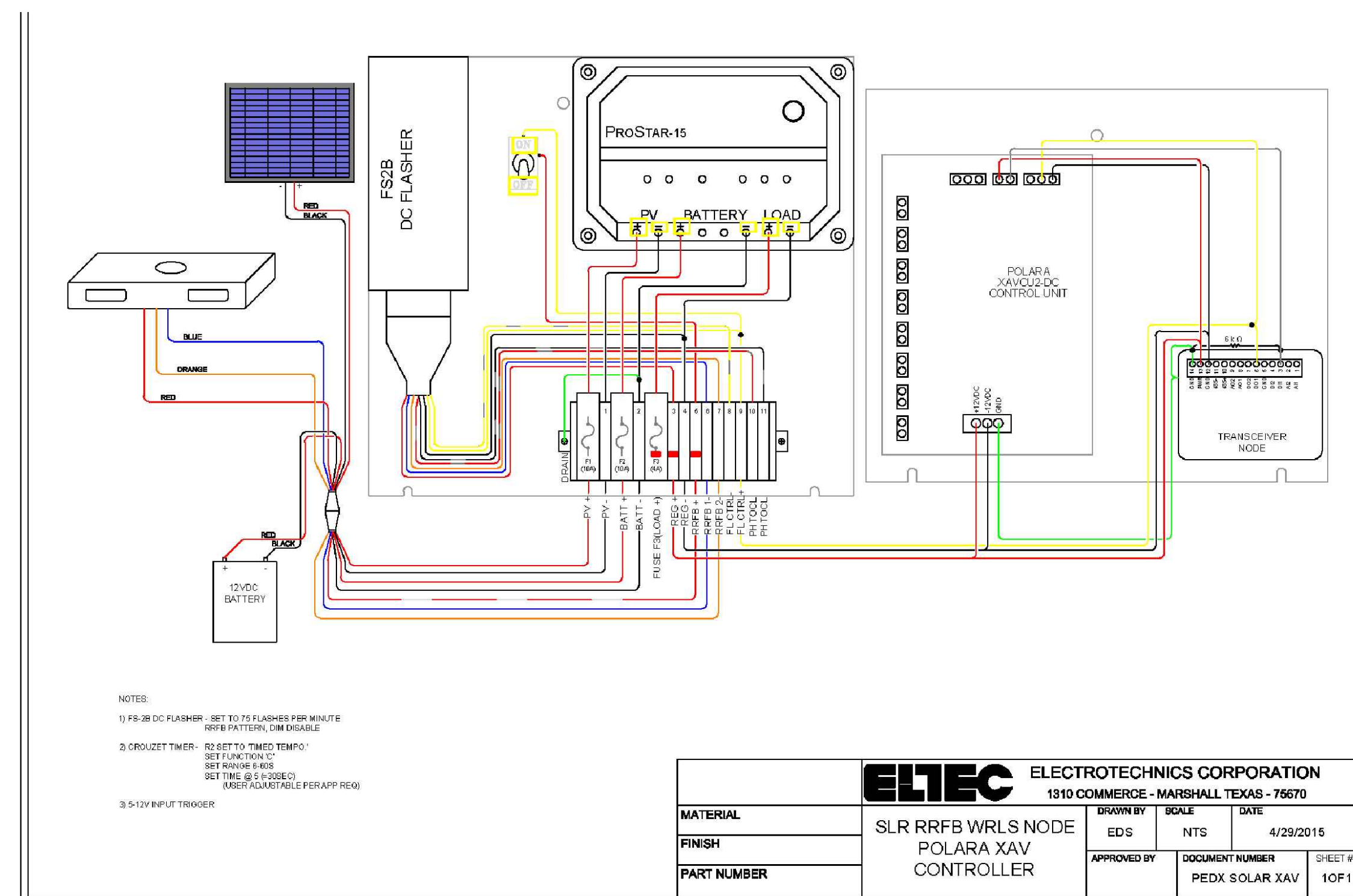
- ALL MATERIALS SHALL BE CSA CERTIFIED AND CONFORM TO EEMAC STANDARDS.
- REFER TO CONTRACT DRAWINGS FOR COMPONENT SPECIFICATIONS
- CONDUIT: PVC TYPE DB2 (UNLESS OTHERWISE NOTED), SIZED AS INDICATED ON DRAWINGS.

### 8) SHOP DRAWINGS

- SUBMIT FOR THE ENGINEER'S REVIEW, SHOP DRAWINGS OF ALL ELECTRICAL EQUIPMENT INCLUDING ALL ITEMS LISTED IN THE SOLAR PXO SPECIFICATIONS OF THE CONTRACT DRAWINGS.
- NO MATERIALS MAY BE INSTALLED UNTIL SHOP DRAWINGS HAVE BEEN REVIEWED BY THE ENGINEER.

## 9) AS-BUILT DRAWINGS

- AS THE WORK PROGRESSES, THE CONTRACTOR SHALL MAINTAIN A FIELD SET OF CONSTRUCTION DRAWINGS. ALL DEVIATIONS FROM THE ORIGINAL DESIGN SHALL BE RECORDED IN A NEAT, LEGIBLE FASHION. THE FIELD SET SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO SUBSTANTIAL PERFORMANCE OF THE PROJECT.



## SOLAR TYPE B PX0 SPECIFICATIONS

## POLE SPECIFICATIONS

POLE: 30' CLASS 3 DIRECT BURIED WOOD POLE  
POLE HEIGHT ABOVE GRADE: 7722mm (25')

## MAST ARM SPECIFICATIONS

MAST ARM MANUFACTURER: POLELITE  
MODEL: TRAFFIC SIGNALIZATION STYLE (TSA)  
SPECIFICATION: ITEM 8 (15' 4600mm)

## PX0 SPECIFICATION – TYPE B

PROVIDE ALL WIRING, CABLE AND CONDUIT TO INTERCONNECT PXO SYSTEM

SINGLE-SIDED RECTANGULAR RAPID FLASHING BEACONS (RRFB):  
UNIVERSAL BANDING MOUNT  
1 PED LED (VERIFICATION LED/TELL TALE)  
YELLOW  
3X7 AODA COMPLIANT CANADIAN STANDARD

CABINET:  
SINGLE COMPARTMENT DC CABINET  
22" X 12" X 8"  
WEATHER RESISTANT  
LOCKABLE DOOR  
UNIVERSAL BANDING MOUNT

WIRELESS COMMUNICATIONS:  
MODEL: ELTEC 870420-870424 OR APPROVED EQUAL  
DC TRANSCEIVER  
FREQUENCY HOPPING SPREAD SPECTRUM (FHSS)  
UNLICENSED INDUSTRIAL, SCIENTIFIC AND MEDICAL (ISM) BAND

SOLAR CHARGE CONTROLLER:  
 MODEL: MORNINGSTAR CORP. PROSTAR 15M (GEN3) OR APPROVED EQUAL  
 FULLY AUTOMATIC CHARGER USING 4 STAGES OF CHARGING  
 LOW VOLTAGE LOAD DISCONNECT  
 LCD DISPLAY  
 LED STATUS LIGHTS  
 MANUAL DISCONNECT PUSH BUTTON

SOLID STATE DC FLASHER:  
MODEL: ELECTEC FS-3 OR APPROVED EQUAL  
SOLID STATE FLASHER  
2 CIRCUIT  
11-30VDC, 50W

COUNTDOWN TIMER:  
MODEL: CROUZET SYR—LINE PC2R10MV1 OR APPROVED EQUAL  
MONO—FUNCTION, MULTI—RANGE, MULTI—VOLTAGE  
DPDT RELAY OUTPUT  
LED STATUS INDICATOR  
12—240V AC/DC, 0.5W

SOLAR PANEL:  
HIGH EFFICIENCY, MULTI-CRYSTAL SILICON SOLAR CELL  
LAMINATED WITH POTTANT OF ETHYLENE VINYL ACETATE (EVA)  
ENCAPSULATED BETWEEN TEMPERED GLASS COVER PLATE AND BACK SHEET  
TYPICAL SIZE: 40-140W  
SIZE TO BE VERIFIED BASED ON LOCATION AND SYSTEM SPECIFIC CONFIGURATION

BATTERY:  
REGULATED, RECOMBINANT, STARVED ELECTROLYTE  
SEALED LEAD ACID (SLA)  
ABSORBED GLASS MAT (AGM)  
12VDC, 55Ah  
SIZE TO BE VERIFIED BASED ON SYSTEM SIZING REPORT

PEDESTRIAN PUSH BUTTONS:  
MODEL: POLARA EN2  
AODA COMPLIANT  
INCLUDE SIGNAGE

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**FINAL APPROVED PLAN**  
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No. of Pages: 1

NOT FOR  
CONSTRUCTION

|            |                                     |             |                |
|------------|-------------------------------------|-------------|----------------|
| 1.         | ISSUED FOR PRELIMINARY REVIEW       | 2018/09/06  | GGR            |
| 2.         | ISSUED FOR 2ND SUBMISSION           | 2018/12/21  | GGR            |
| 3.         | SECOND SUBMISSION TO CITY OF BARRIE | 2019/05/14  | GGR            |
| 4.         | FOURTH SUBMISSION TO CITY OF BARRIE | 2019/09/05  | GGR            |
| 5.         | FIFTH SUBMISSION TO CITY OF BARRIE  | 2019/11/13  | GGR            |
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BISTRO 6  
CITY OF BARRIE

PEDESTRIAN ROAD  
CROSSING SITE PLAN  
AND DETAILS

**RUNGE**  
ENGINEERING