SHELBYVILLE POWER SYSTEM
UNDERGROUND PRIMARY

Three Phase Underground Primary:

1. Schedule 40, 80 or rigid conduit, depending on soil conditions. **(NOTE: ALL CONDUIT TO BE ENCASED IN 12” OF CONCRETE)**

2. Minimum 38" depth.

3. **Provide 4” spare conduit.**

4. Conduit size - Minimum 4" **with 1/4" pull rope inserted**.

5. Rigid (metal) conduit on pole and metal sweep 90º elbows. (36” radius at poles, transformers.)

6. All conduit, bushings, weather head, & conduit ground clamp furnished by customer.

7. All ditches opened and closed by customer. **S.P.S. must inspect conduit before closing of ditch.**

8. Conduit straps for pole furnished and installed on pole by Shelbyville Power System (S.P.S.).

9. Wire from pole to transformer furnished by S.P.S.

10. Depending upon distance from pole to transformer, all pull boxes will be furnished by customer and spotted by S.P.S.

11. Underground tape (supplied by S.P.S.) will be placed by customer 6" below final grade.

Single Phase Underground Primary:

1. Schedule 40, 80 or rigid conduit, depending on soil conditions. **(NOTE: ALL CONDUIT TO BE ENCASED IN 12” OF CONCRETE)**

2. Minimum 38" deep.

3. **Provide 2” spare conduit.**

4. Conduit size - Minimum 2" with 1/4" pull rope inserted.

5. Rigid (metal) conduit on pole and metal sweep 90º elbows in all cases. (36” radius at poles, transformers.)

6. All conduit, bushings, weather head, and conduit ground clamp furnished by customer.

7. All ditches opened and closed by customer. **S.P.S. must inspect conduit before closing of ditch.**

8. Conduit straps for pole furnished and installed by S.P.S.

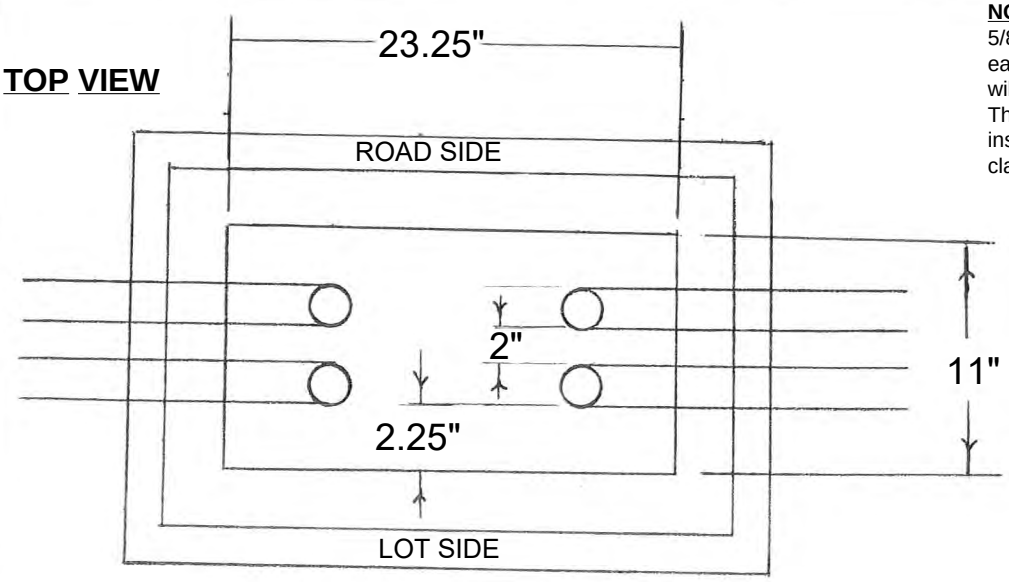
9. Wire from pole to transformer furnished by S.P.S.

10. Underground tape (supplied by S.P.S.) will be placed by customer 6" below grade.

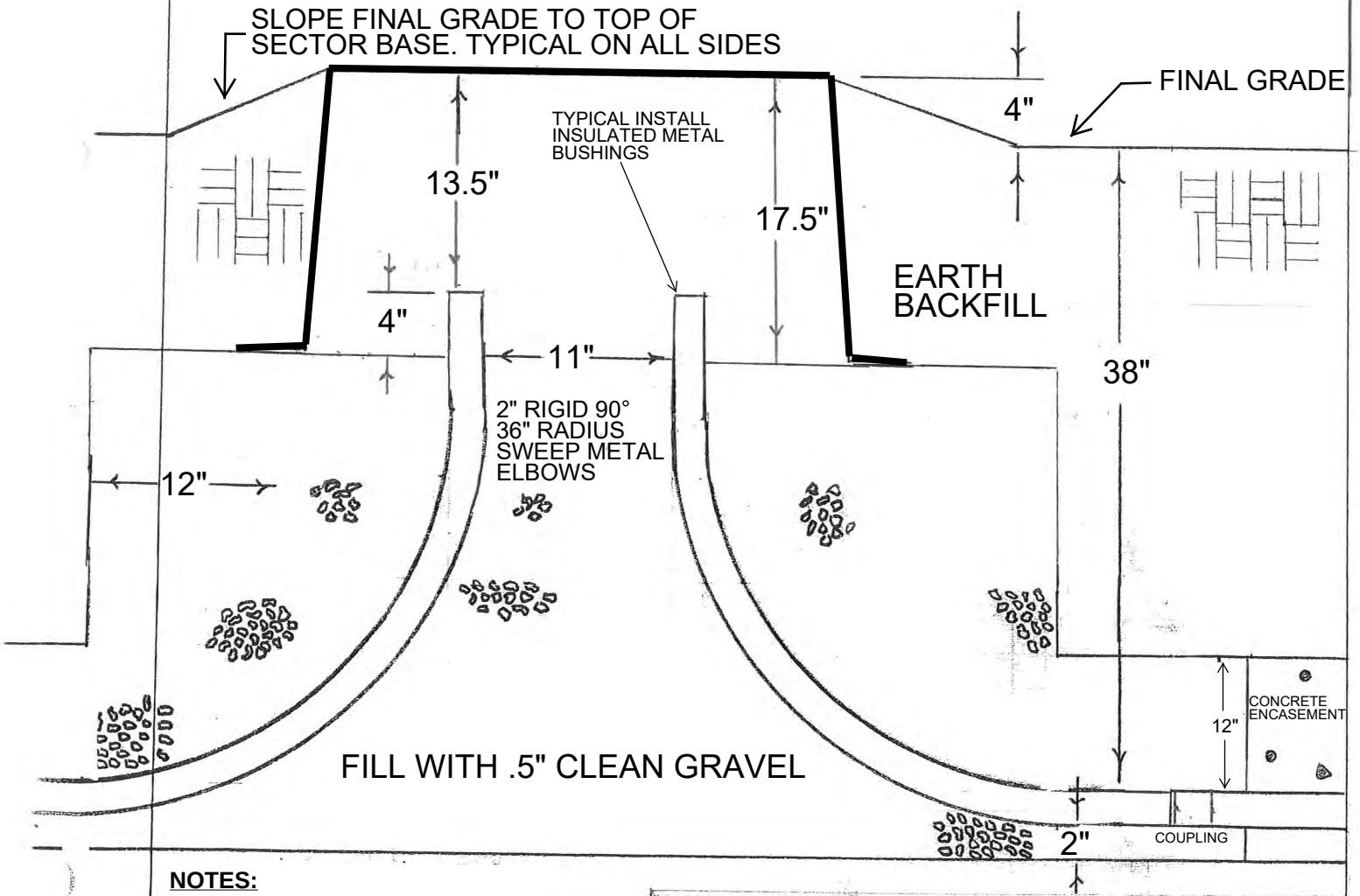
SECTOR BASE DETAIL (SINGLE PHASE) HV PEDESTAL

NOTE: Contractor will drive two(2) 5/8"x8' copper ground rods for each high voltage pedestal. SPS will furnish 1/0 bare copper wire. The contractor will furnish and install two(2) 3/4" tear drop clamps.

TOP VIEW



SIDE VIEW



NOTES:

1.) ELBOWS SHALL BE RIGID 36" RADIUS
2.) ALL CONDUITS SHALL BE CAPPED
3.) PROVIDE AND INSTALL INSULATED THREADED METAL BUSHINGS
4.) INSTALL 1/4" PULL ROPE

SHELBYVILLE POWER SYSTEM

SECTOR BASE FOR SINGLE PHASE HV PEDESTAL

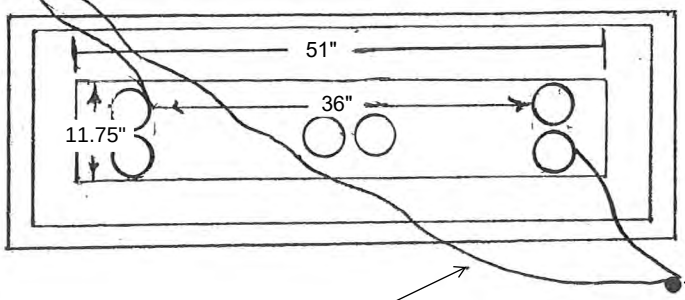
DATE: 1/16/2020

SECTOR BASE DETAIL (THREE PHASE) HV PEDESTAL

TYPICAL
3/4" TEAR DROP
GROUND CLAMP

NOTE: Contractor will drive two(2) 5/8"x8' copper ground rods for each high voltage pedestal. SPS will furnish 1/0 bare copper wire. The contractor will furnish and install two(2) 3/4" tear drop clamps.

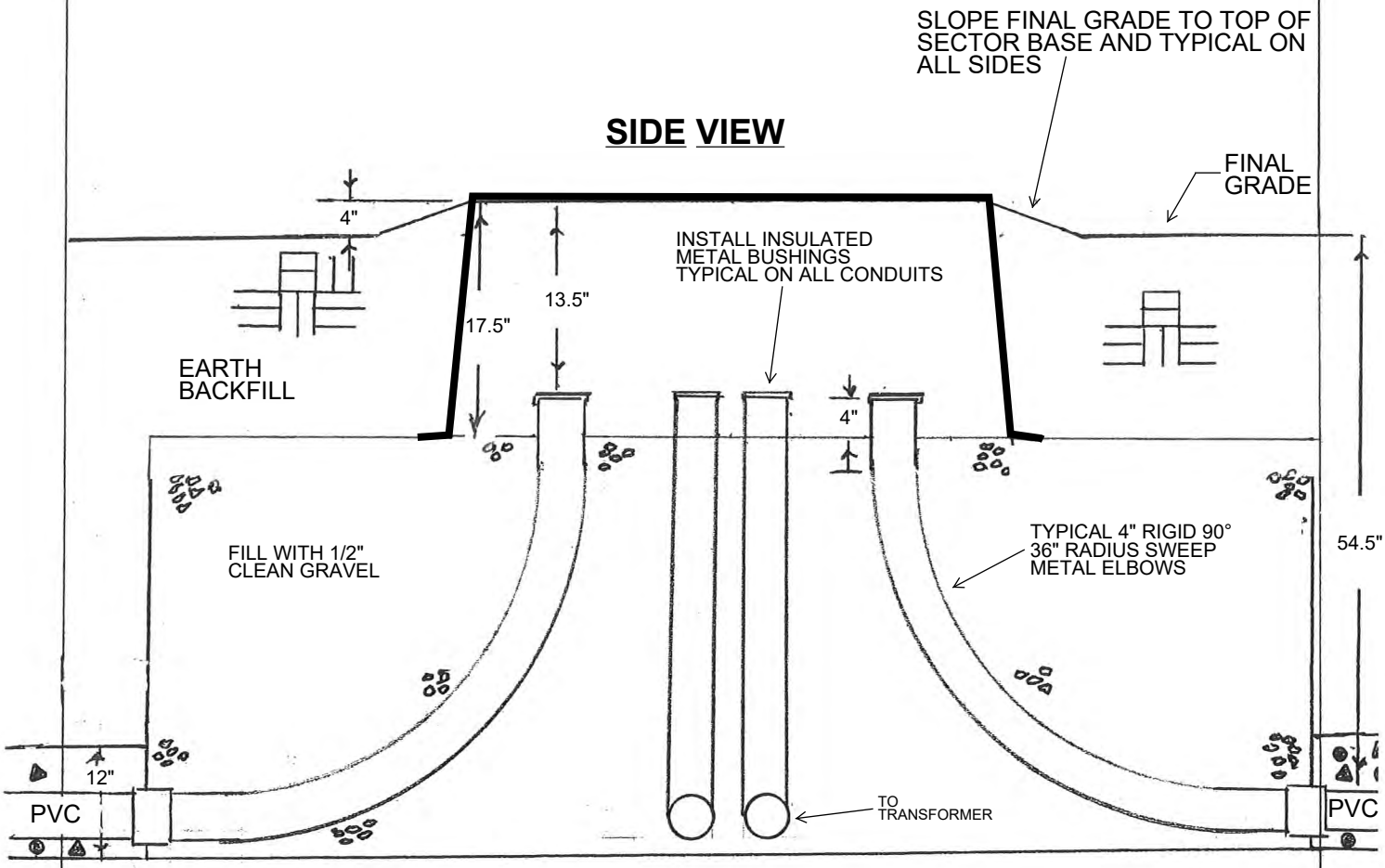
TOP VIEW



TYPICAL
3/4" TEAR DROP
GROUND CLAMP

1/0 BARE COPPER WIRE
FURNISHED BY SPS
INSTALLED BY CONTRACTOR

SIDE VIEW



NOTES:

1.) ELBOWS SHALL BE 36" RADIUS
2.) ALL CONDUITS SHALL BE CAPPED
3.) PROVIDE AND INSTALL INSULATED THREADED METAL BUSHINGS
4.) INSTALL 1/4" PULL ROPE

SHELBYVILLE POWER SYSTEM
SECTOR BASE FOR 3 PHASE
HV PEDESTAL

DATE: 1-16-2020

LOW VOLTAGE PEDESTAL

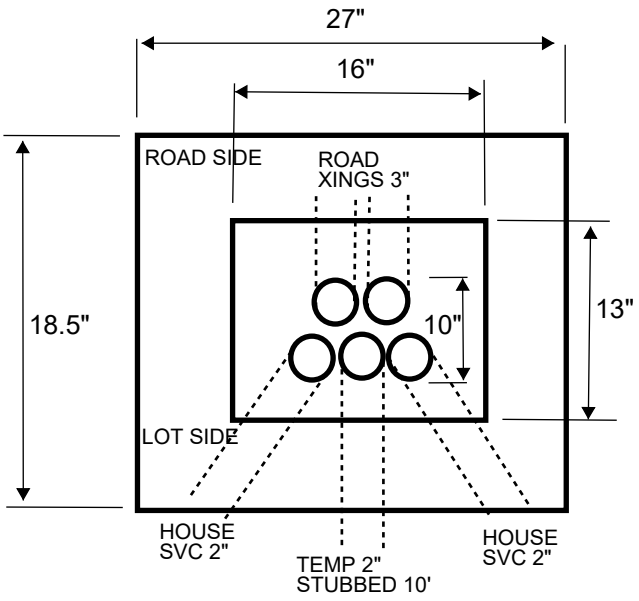
NOTES:

- ALL CONDUITS SHALL BE CAPPED

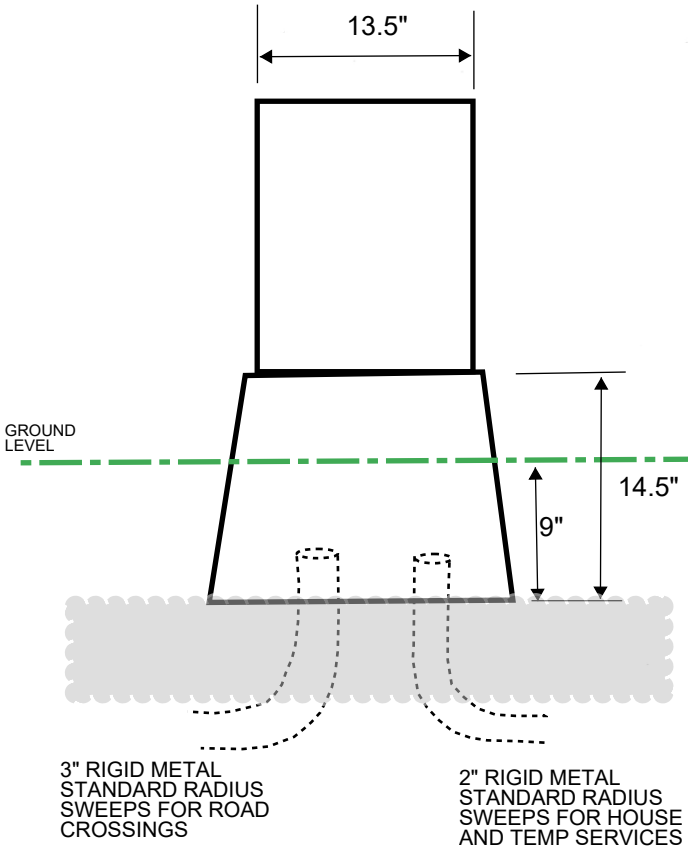
- CONTRACTOR DRIVES ONE 5/8" COPPER GROUND ROD FOR EACH LV PEDESTAL.

- SPS WILL FURNISH 1/0 COPPER WIRE

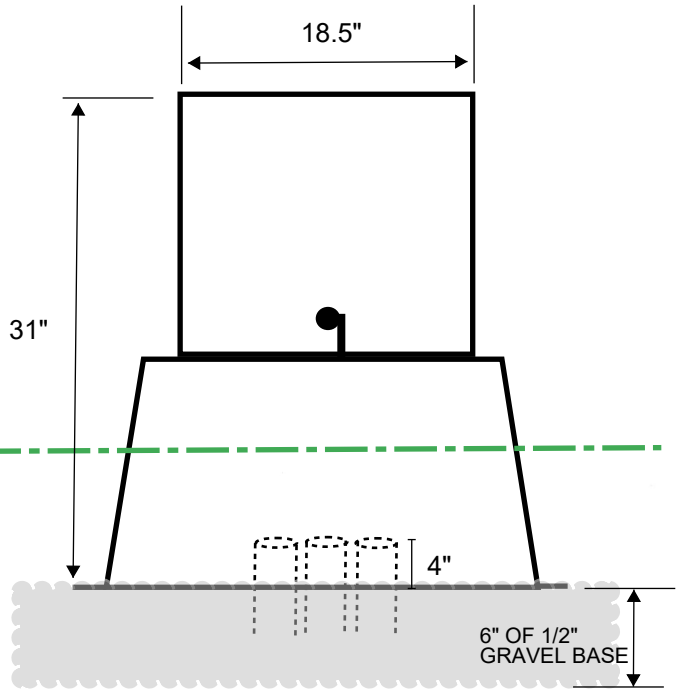
TOP VIEW



SIDE VIEW



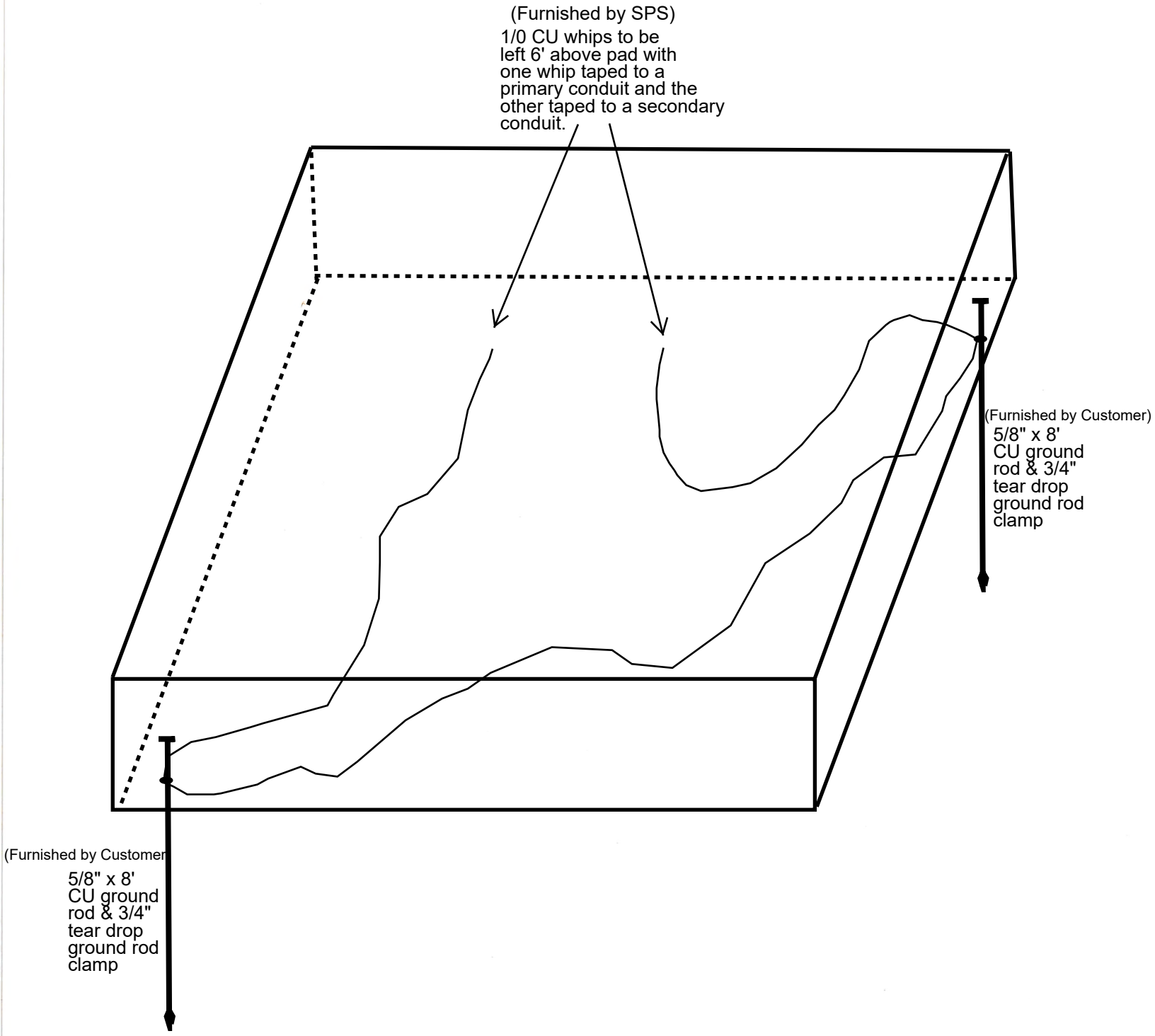
FRONT VIEW (LOT SIDE)



SHELBYVILLE POWER SYSTEM

DATE: 1/15/2021

GROUNDING OF TRANSFORMER PAD

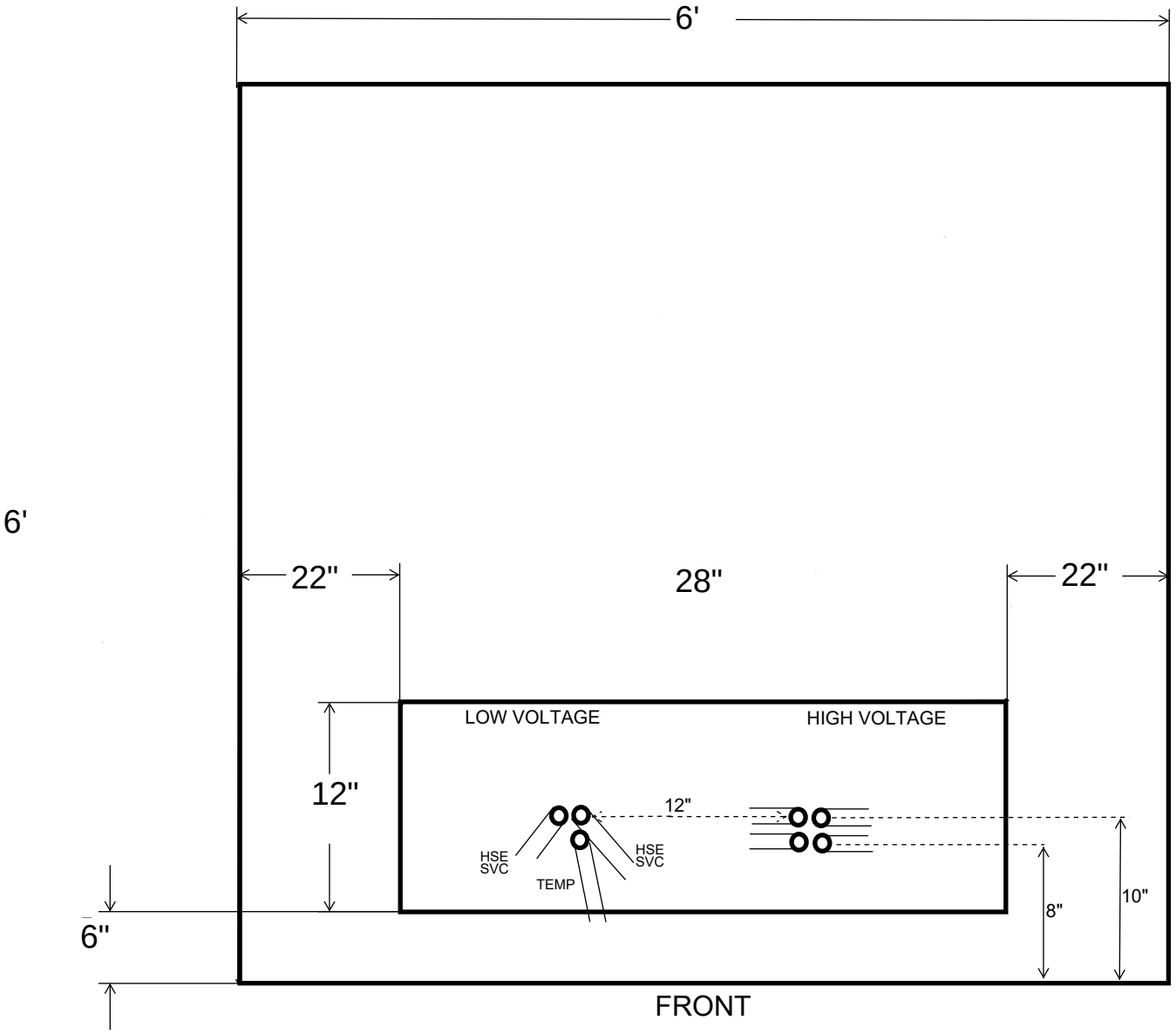


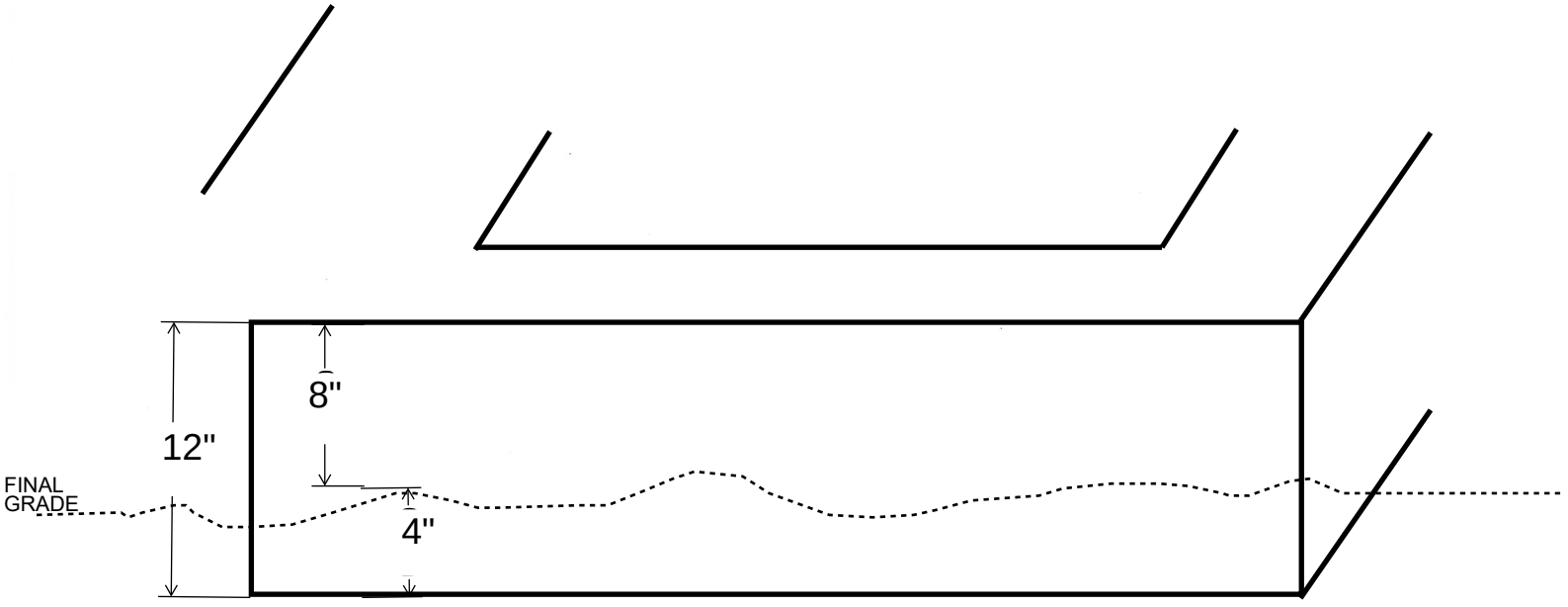
CONCRETE PAD TO BE A MINIMUM OF 4,000 lb/in² CONCRETE

SHELBYVILLE POWER SYSTEM

DATE: 1/23/2020

25 - 167 kVA 1Ø CONCRETE PAD

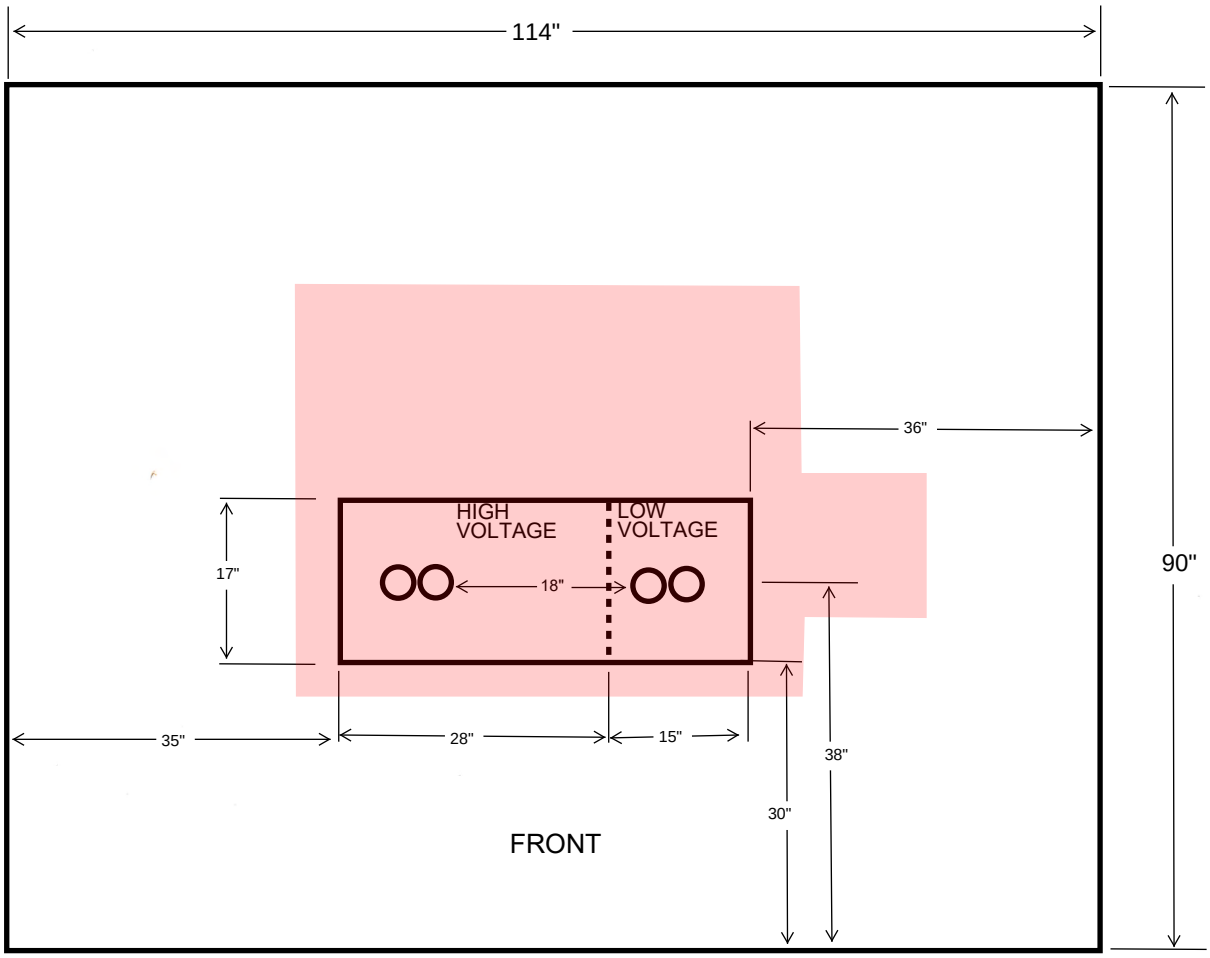


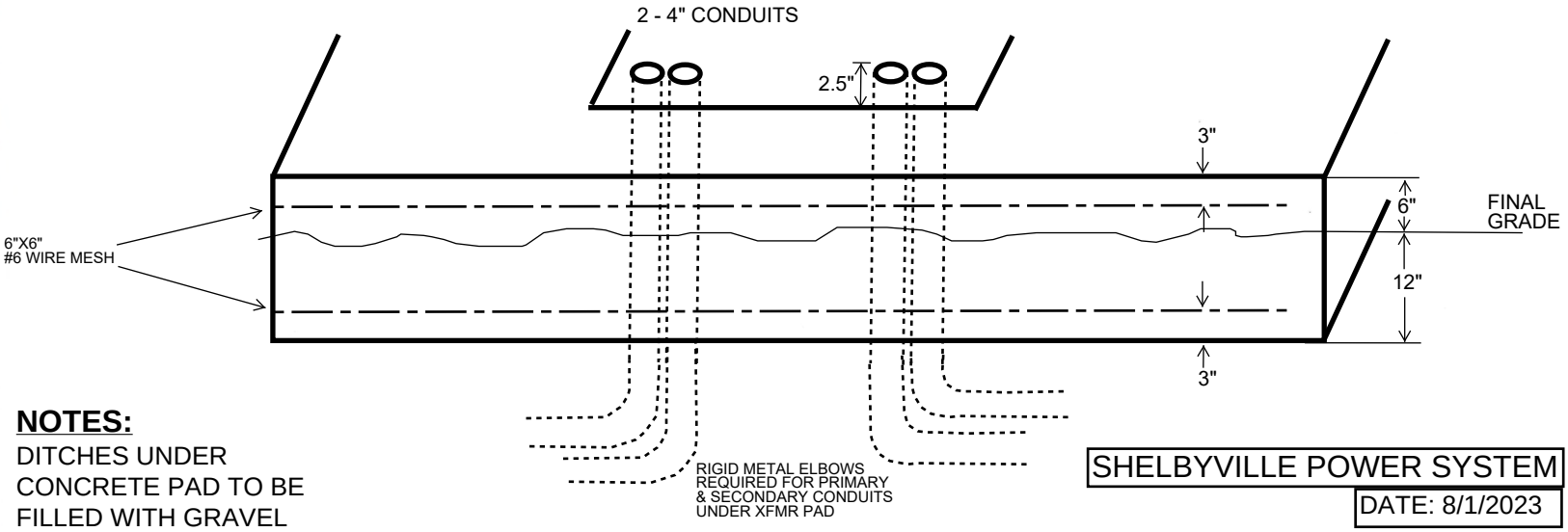


NOTE:
-CONDUITS SHALL NOT EXTEND OUT OF CONCRETE MORE THAN 2"

SHELBYVILLE POWER SYSTEM
DATE: 1/17/2020

3Ø 150 kVA CONRETE PAD





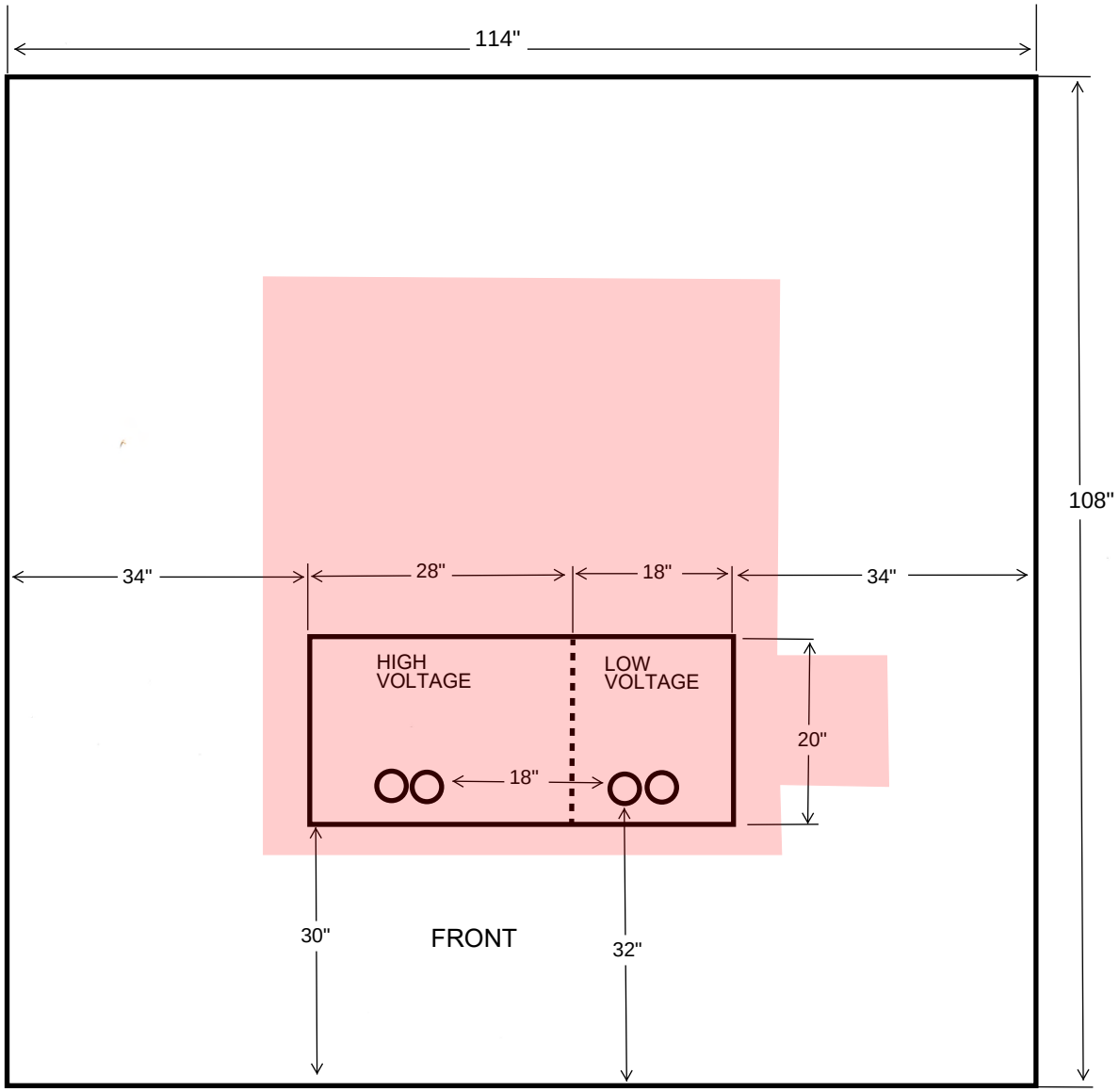
NOTES:

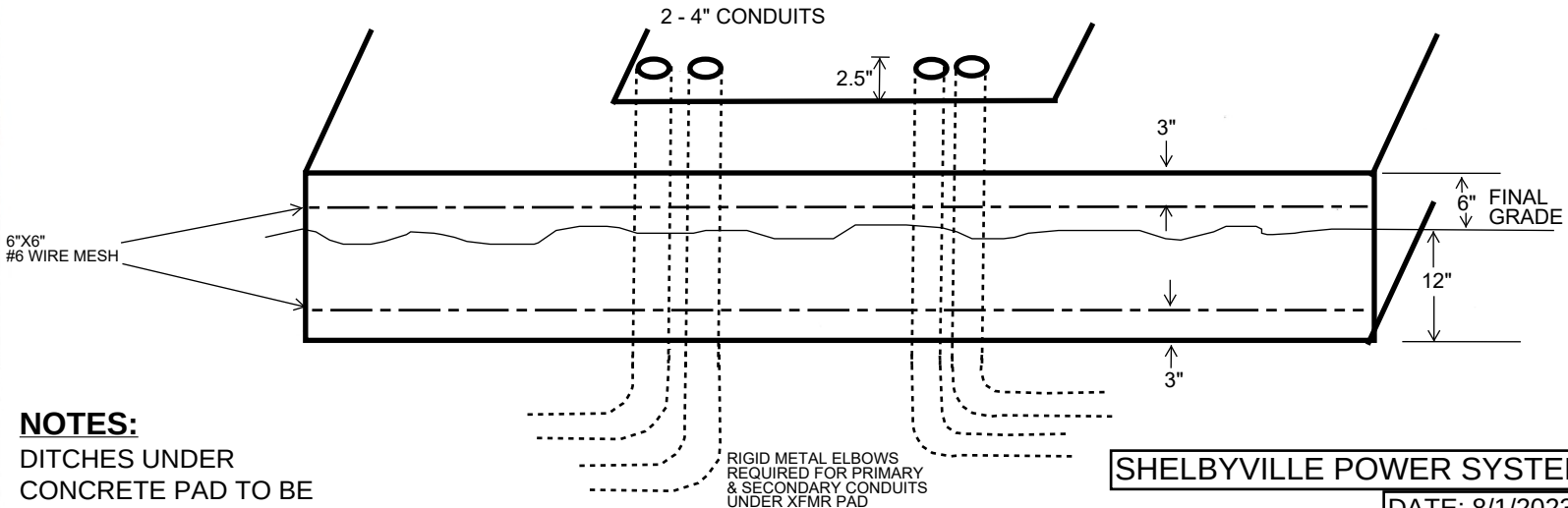
DITCHES UNDER CONCRETE PAD TO BE FILLED WITH GRAVEL

SHELBYVILLE POWER SYSTEM

DATE: 8/1/2023

3Ø 300 & 500 kVA CONRETE PAD





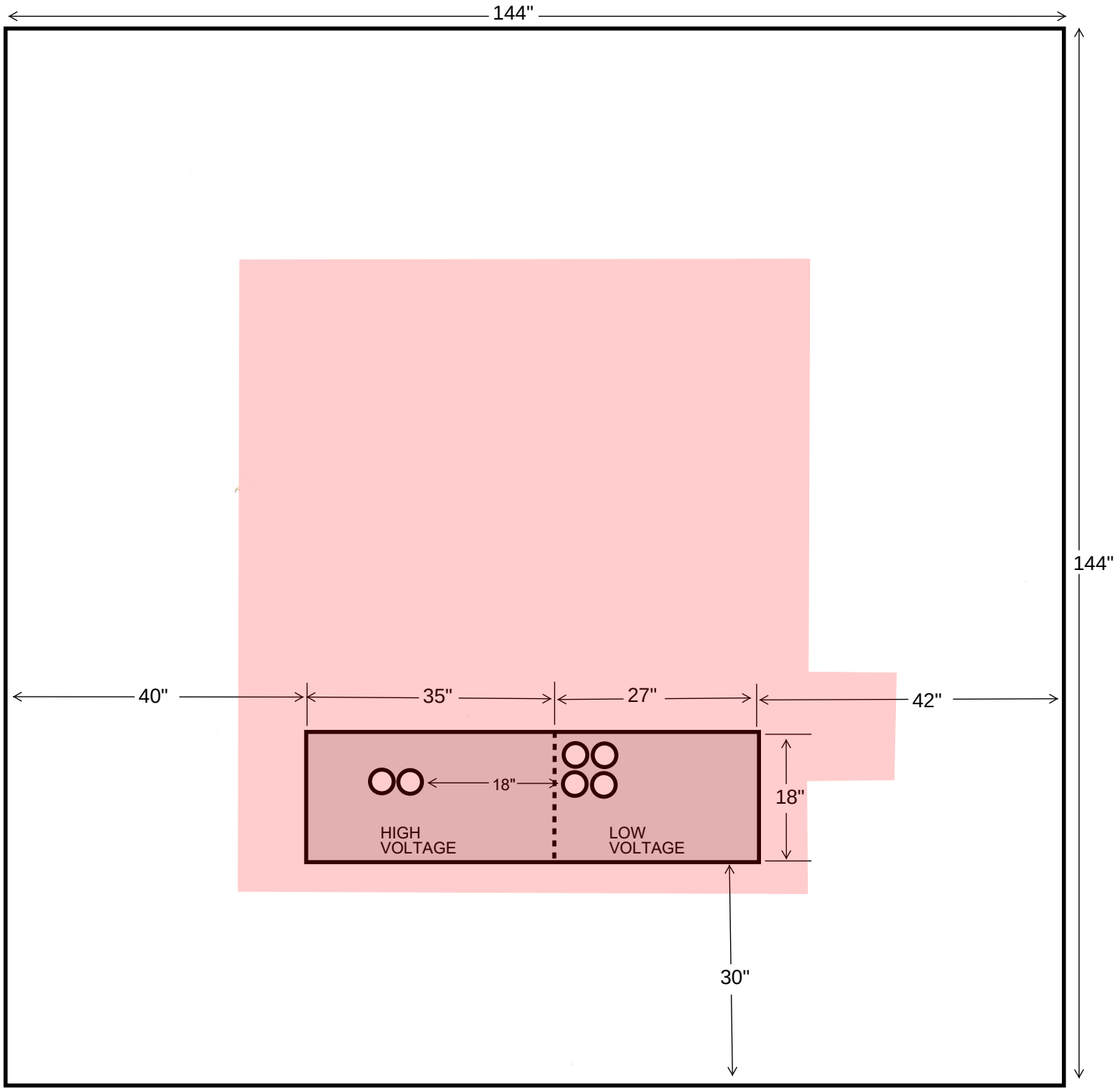
NOTES:

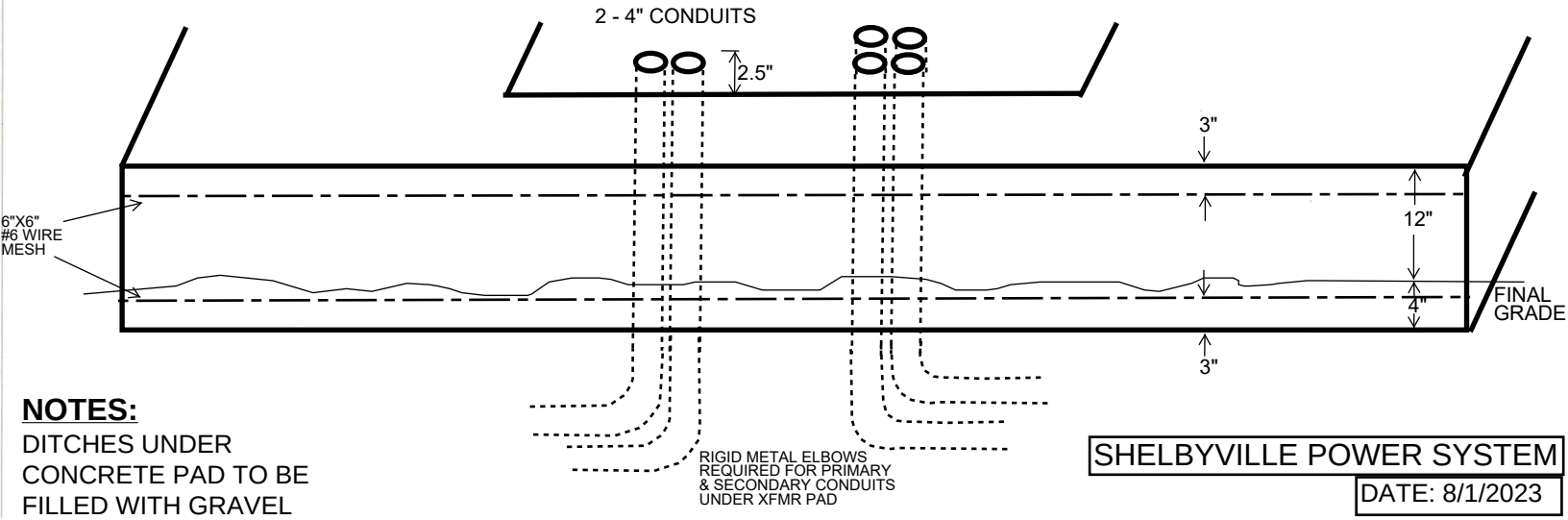
DITCHES UNDER CONCRETE PAD TO BE FILLED WITH GRAVEL

SHELBYVILLE POWER SYSTEM

DATE: 8/1/2023

1500 or 2500 kVA PAD





NOTES:

DITCHES UNDER CONCRETE PAD TO BE FILLED WITH GRAVEL

SHELBYVILLE POWER SYSTEM

DATE: 8/1/2023