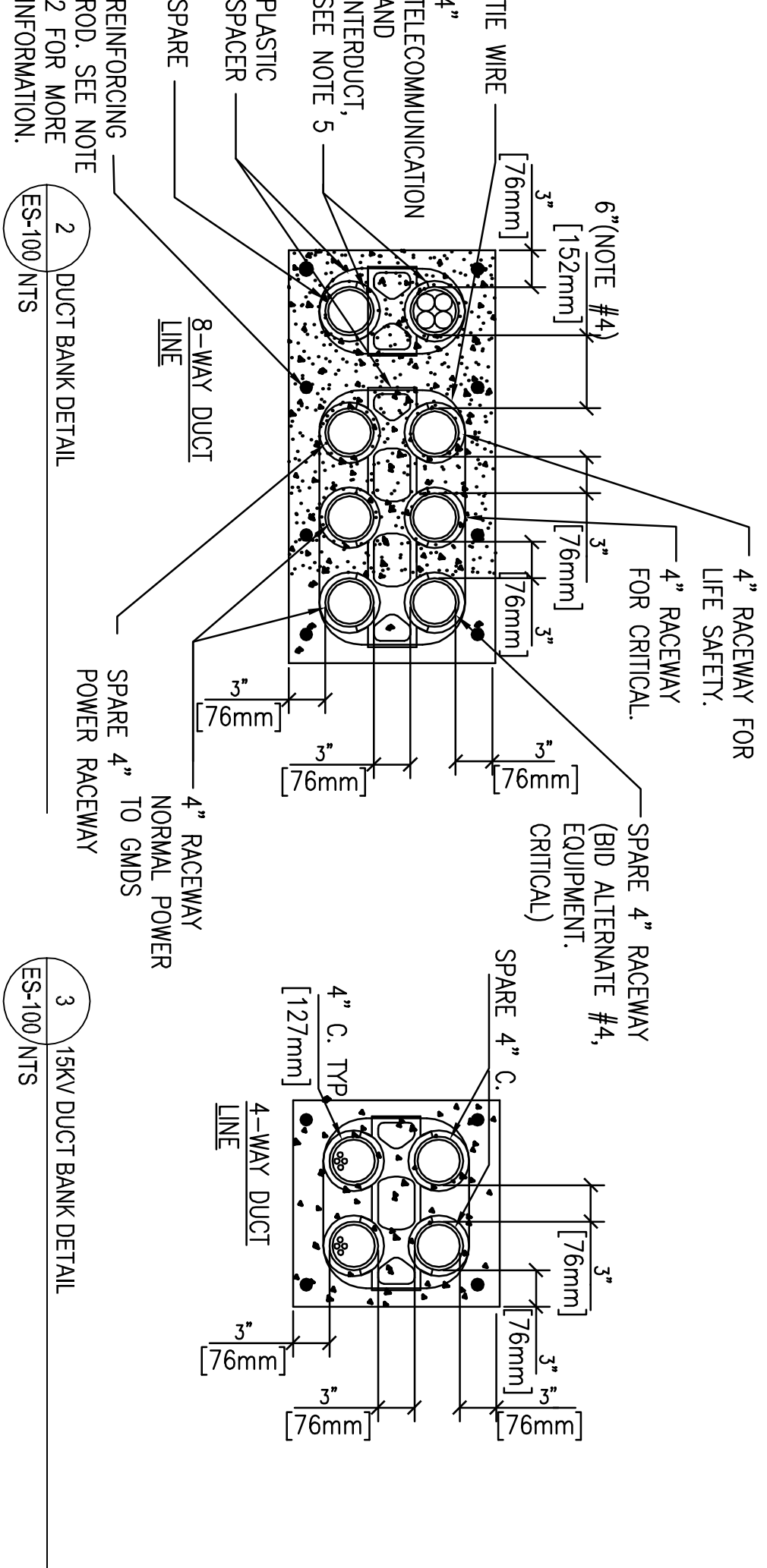
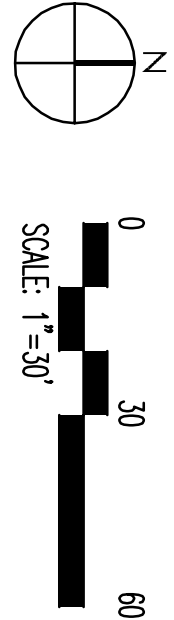


- GENERAL NOTES**
- A. EXISTING 15KV SERVICE TO REMAIN IN PLACE. OPERATIONAL UNTIL NEW DISTRIBUTION DUCTS AND CABELING ARE IN PLACE.
- B. HOSPITAL FLOOR PLAN SHOWN, IS BASEMENT INTERSTITIAL AREA.
- C. PROVIDE A MINIMUM OF 30 DAYS NOTICE OF ANY UTILITY SHUT DOWN.
- D. FOR POLE BASE AND HANDHOLE DETAILS SEE DRAWING ES-090.
- E. POLE BASES TO BE LOCATED A MINIMUM OF 18" FROM CENTERLINE OF POLE BASE TO EDGE OF SIDEWALK.
- F. PROVIDE 15KV XP 4/D MW90 CABLE AND MATCH THE EXISTING 15KV CABLE.
- KEY NOTES:**
- ① CORE PULL EXISTING TUNNEL WALL FOR CONDUITS, SEAL PENETRATIONS BOTH SIDES.
- ② EXISTING 15KV DUCT BANK.
- ③ PROVIDE MANHOLE FOR 15KV SERVICE REROUTE, SEE DETAILS SHEET ES-501.
- ④ EXISTING LIGHT FIXTURE TO REMAIN.
- ⑤ PROVIDE DUCT BANK, SEE DETAIL 3/ES-100, WITH ONE SET OF 3 - 1"/C #4/0 15KV + 1 #1/0 GROUND PER INDICATED CONDUITS.
- ⑥ PROVIDE 8-WAY POWER AND COMMUNICATION DUCT BANK FROM TUNNEL TO ELECTROMCK AND TELCOM ROOMS. SEE DETAIL 2/ES-100.
- ⑦ EXISTING MANHOLE 12A. SEE DETAIL 5/ES-501.
- ⑧ PROVIDE HAND HOLE FOR EXISTING PARKING LOT LIGHTING CIRCUIT, EXTEND EXISTING CIRCUIT AS SHOWN.
- ⑨ PROVIDE FIVE (5)PULL BOXES AT DUCT BANK ENTRANCE TO TUNNEL. PULL BOXES SHALL BE RESERVED FOR COMMUNICATIONS, NORMAL POWER, LIFE SAFETY POWER, CRITICAL POWER, ELEVATOR POWER(BD OPTION), AND SPARE DUCTS. LOCATE PULL BOXES BELOW THE PIPING IN THE PIPE RACKS.
- ⑩ PROVIDE A BUILDING ENTRANCE PROTECTOR IN THE COMMUNICATIONS PULL BOX AND TERMINATE THE 25 PAIR OUTSIDE PLANT AND 25 PAIR INDOOR CATEGORY 3 CABLES ON THE PROTECTOR. PROVIDE A #6 AWG COPPER GROUNDING CONDUCTOR AND SHIELD THE PROTECTOR. PROVIDE A #6 AWG COPPER GROUNDING CONDUCTOR TO THE GROUNDING CONDUCTOR TO THE CONDUIT AT BOTH ENDS. PROVIDE A 1 1/2" EMT CONDUIT FROM THE PULL BOX AND ROUTE THE 25 PAIR INDOOR CATEGORY 3 AND THE OPTICAL FIBER CABLES TO ROOM BH-111. SEE DRAWING EX-125 FOR CONTINUATION.
- ⑪ PROVIDE POLE BASE, RENESTALL 15' EXISTING POLE, LIGHT FIXTURES AND RECONNECT.
- ⑫ PROVIDE POLE BASE, RENESTALL 30' EXISTING POLE, LIGHT FIXTURES AND RECONNECT.
- ⑬ PARTIAL FIRST FLOOR PLAN, STUB CONDUIT UP INTO ELECTRICAL ROOM.
- ⑭ PARTIAL BASEMENT PLAN, STUB CONDUIT DOWN INTO ELECTRICAL ROOM.
- ⑮ EXTEND EXISTING SITE LIGHTING CIRCUIT FROM HANDHOLE. PROVIDE CONDUCTORS AND CONDUIT TO MATCH EXISTING.
- ⑯ EXISTING AIS.
- ⑰ PROVIDE AIS, PER DRAWING ES-601, PROVIDE CONCRETE HOUSE KEEPING PAD TO MATCH EXISTING.
- ⑱ EXISTING LIGHT POLE, LUMINAIRE AND CIRCUITING TO REMAIN.
- ⑲ EXTEND EXISTING SITE LIGHTING CIRCUIT FROM HANDHOLE. PROVIDE CONDUCTORS AND CONDUIT TO MATCH EXISTING. CIRCUIT 28 TO BE ABANDONED IN PLACE.
- ⑳ DUCTBANK HIGHPPOINT. SEE SPECIFICATION FOR DUCT PITCH.
- ㉑ PROVIDE NEW 20A 3 POLE CIRCUIT BREAKER FOR EXIST MULTI WIRE BRANCH CIRCUIT.



- DUCT BANK DETAIL NOTES:**
1. CONCRETE SHALL BE 2000 P.S.I., @ 28 DAYS, OR AS SPECIFIED.
2. PROVIDE REINFORCING RODS ON TOP AND BOTTOM OF DUCTS WHEN CROSSING OR PLACED IN ROADWAYS AND AS SPECIFIED IN 260541.
3. MINIMUM COVER TO TOP OF ENVELOPE SHALL BE 24" [610mm].
4. PROVIDE MINIMUM 6" [152mm] SPACE BETWEEN POWER AND TELECOMMUNICATION DUCTS.
5. TELECOM DUCT AND INNERDUCT QUANTITY AND SIZE AS INDICATED ON DRAWING EX-121.
6. PROVIDE PVC COATED RIGID GALVANIZED STEEL ELBOWS AT ALL DIRECTION CHANGES, EITHER VERTICAL OR HORIZONTAL. [610mm].

1 SITE PLAN
ES-100 SCALE: 1" = 30'



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Project #023-1013-000

ELECTRICAL SITE PLAN

Drawing Title:
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am duly Licensed Professional Engineer under the laws of the State of Minnesota
Signature: *Randall A. Jacobs*
Printed Name: Randall A. Jacobs
Date: 02-24-2012
License: 25414

Project Title:
CONSTRUCT PARKING RAMP DESIGN

Location: 1 VETERANS DRIVE
MINNEAPOLIS, MN 55417

Date: 02-24-2012

Checked: RAJ

Drawn: PFV

Project Number: 618-820
Building Number: 78
Drawing Number: ES-100
Drawing 98' of 116

Office of Construction and Facilities Management
Department of Veterans Affairs