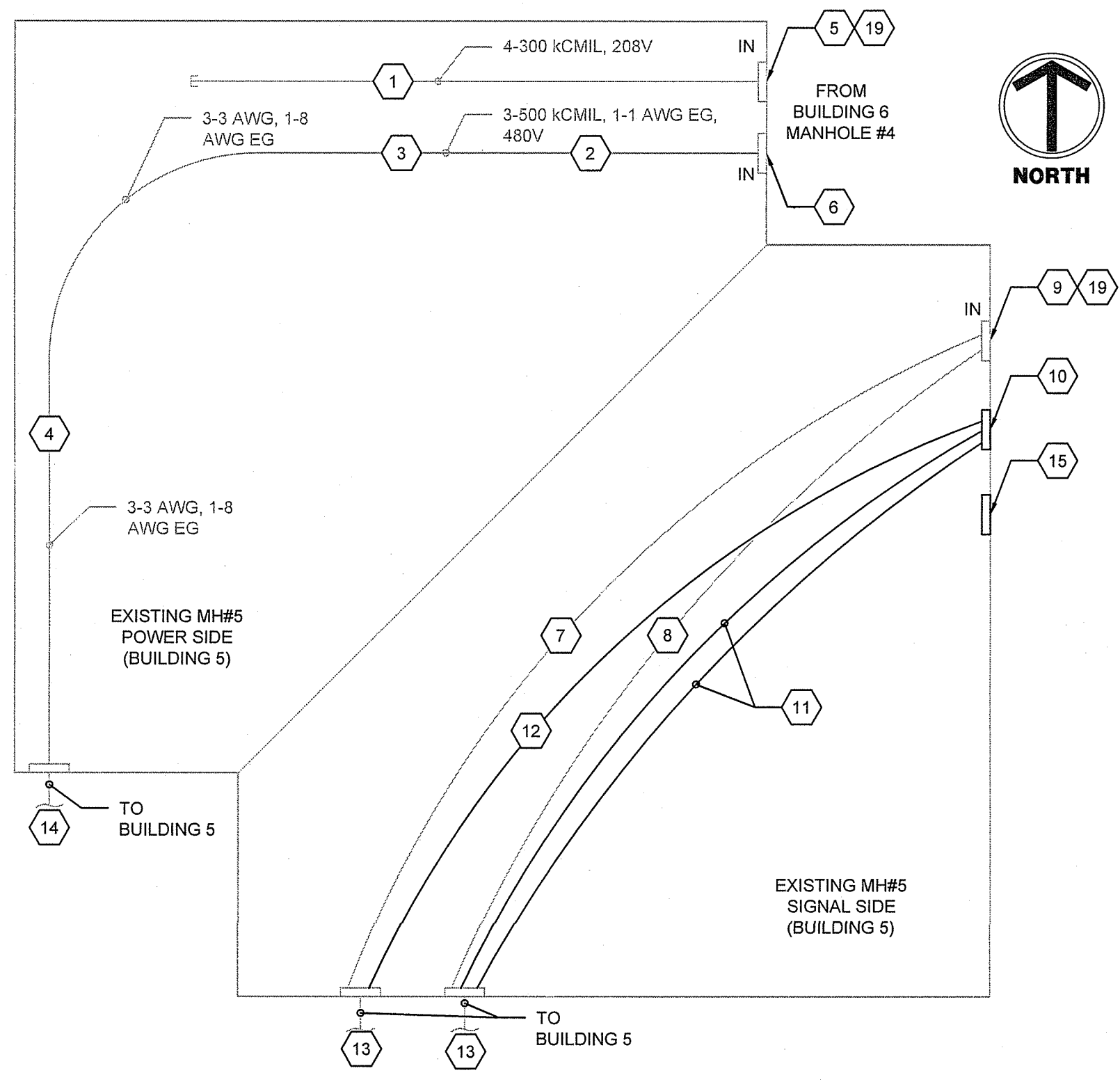
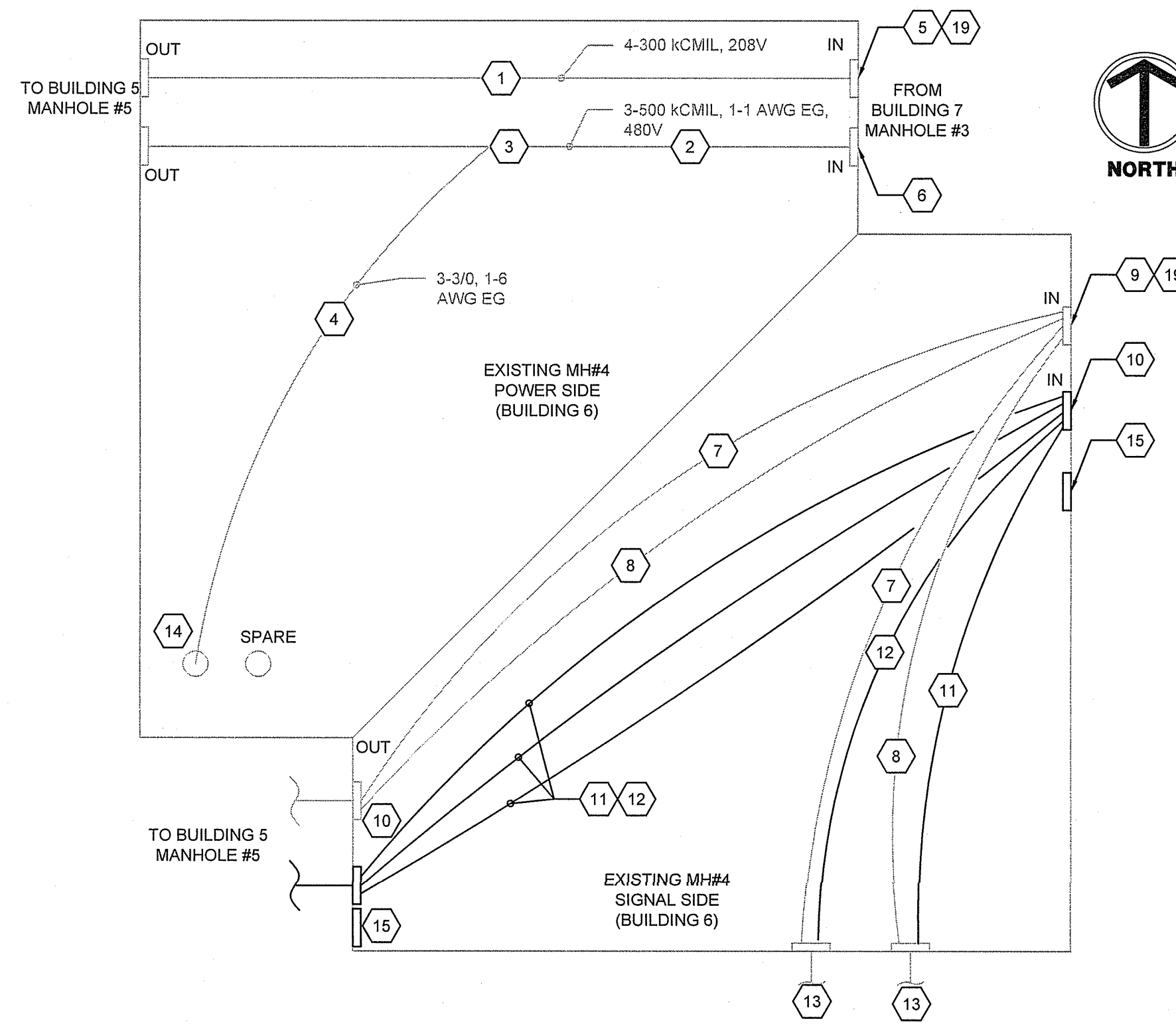


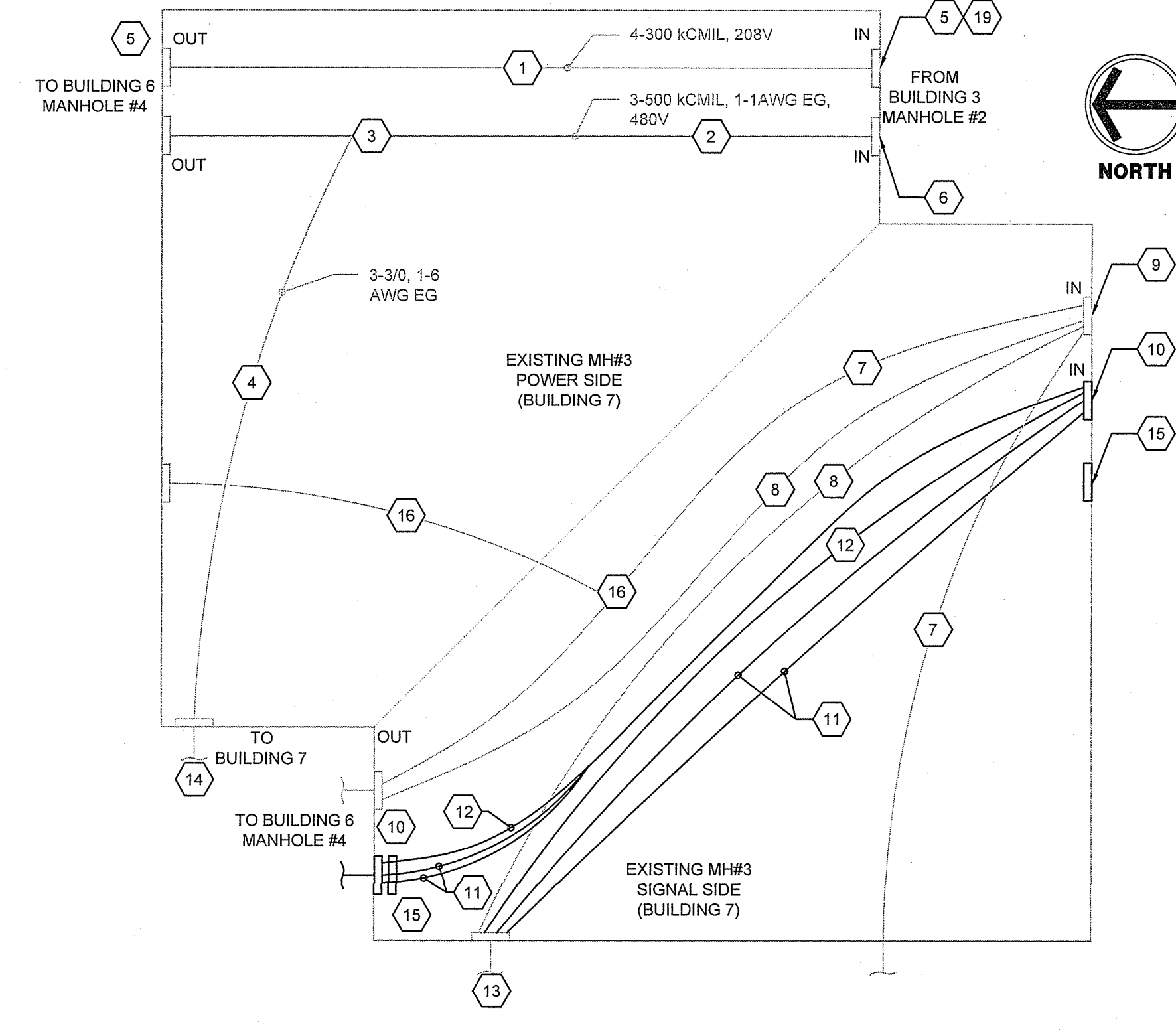
one eighth inch = one foot  
 one quarter inch = one foot  
 one half inch = one foot  
 three eighths inch = one foot  
 one inch = one foot  
 one and one half inches = one foot  
 two inches = one foot  
 three inches = one foot  
 four inches = one foot  
 five inches = one foot  
 six inches = one foot  
 seven inches = one foot  
 eight inches = one foot  
 nine inches = one foot  
 ten inches = one foot  
 eleven inches = one foot  
 twelve inches = one foot



3 BUILDING 5 EXISTING MANHOLE #5 DETAIL  
 N.T.S.



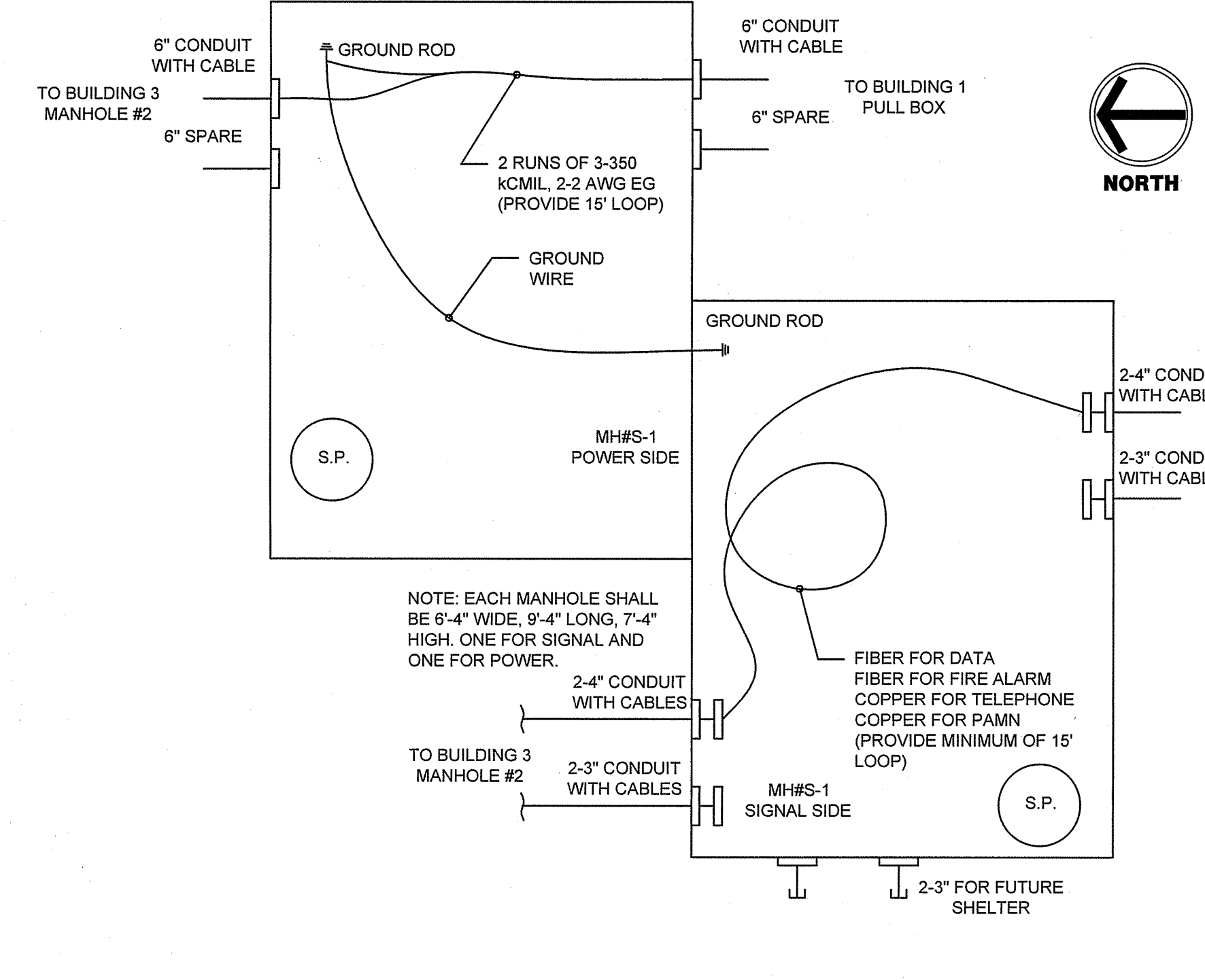
2 BUILDING 6 EXISTING MANHOLE #4 DETAIL  
 N.T.S.



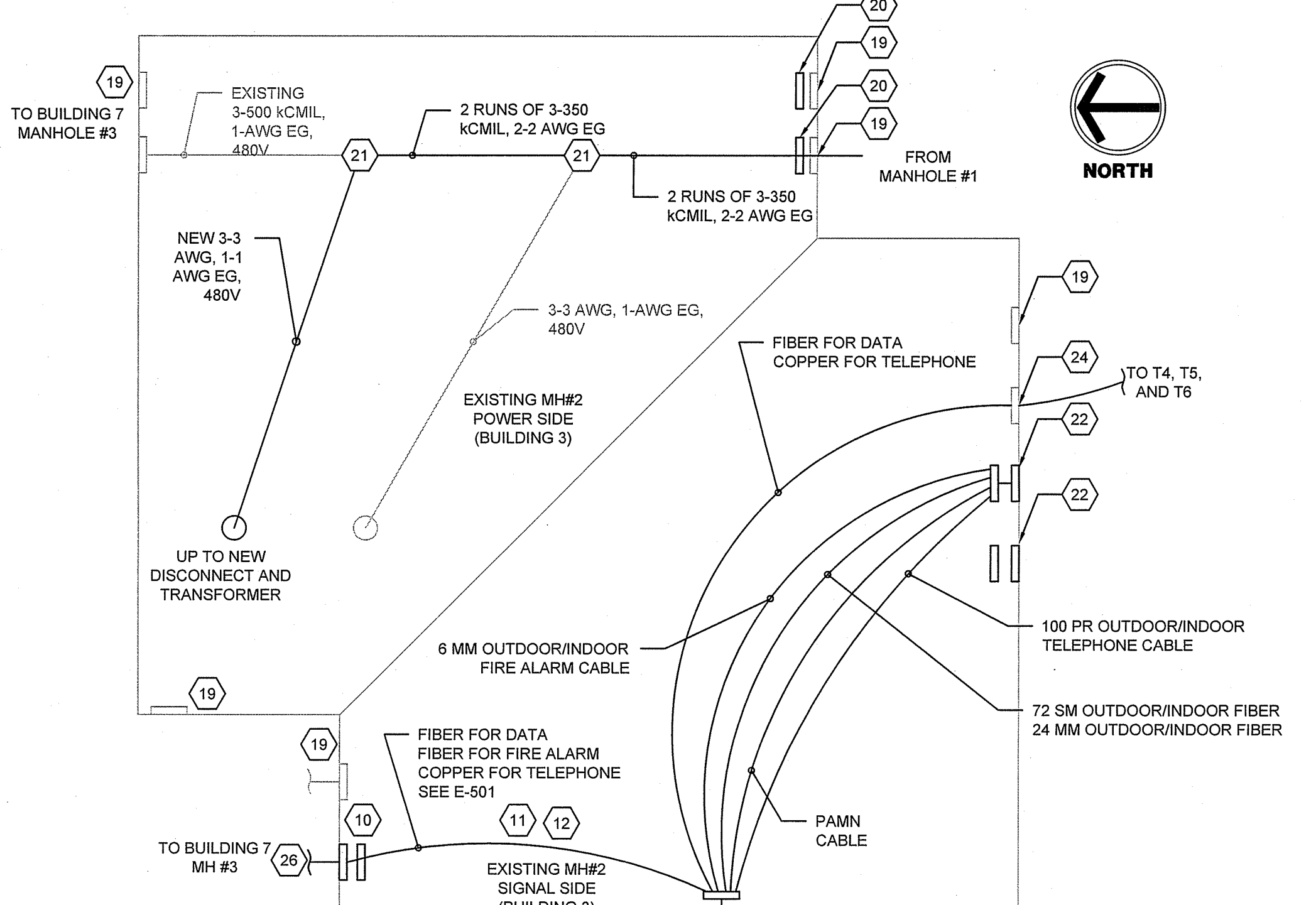
1 BUILDING 7 EXISTING MANHOLE #3 DETAIL  
 N.T.S.

- ### GENERAL NOTES
- CONTRACTOR SHALL VERIFY CONDUIT ROUTING IN THE FIELD.
  - CONTRACTOR SHALL INSPECT EACH MANHOLE AND BRING IT UP TO LATEST STANDARDS.
  - CONTRACTOR SHALL CORE DRILL EACH MANHOLE AND SEAL OPENING AROUND CONDUIT WITH WEATHER PROOF SEALANT (FOR EACH SIDE).
  - CONTRACTOR SHALL PROVIDE MANHOLE SUPPORT AT +2FEET ABOVE FINISHED MANHOLE FLOOR (3'-4" LENGTH) AND SHALL SUPPORT ALL CABLES.
  - ALL MANHOLE SUPPORTS SHALL BE CORROSION RESISTANT.
  - CONTRACTOR SHALL CLEAN ALL EXISTING CABLING WITH AN APPROVED SOLUTION.
  - CONTRACTOR SHALL TAP/SPlice CABLING PER NEC. ALL TAP/SPICES SHALL BE WEATHER AND WATER PROOF AND SHALL BE SUPPORTED ABOVE 2 FEET FROM THE MANHOLE FINISH FLOOR.
  - CONTRACTOR SHALL PROVIDE NEW GROUND ROD AND GROUND CABLE PER NEC AND BICSI STANDARDS IN EACH MANHOLE.
  - CONTRACTOR SHALL PROVIDE IT TAGS FOR EACH EXISTING AND NEW CABLE/FIBER PER VA REQUIREMENTS. ALL ID TAGS SHALL BE WEATHER AND WATER RESISTANT.
  - CONTRACTOR SHALL INSPECT EACH MANHOLE AFTER COMPLETION OF PROJECT AND SHALL CLEAN AND SEAL ALL OPENINGS, WIRING AND CONDUITS.
  - CONTRACTOR SHALL PROVIDE PHOTOS FOR EACH WALL AND SHALL BE NUMBERED WITH THEIR RECORD DRAWINGS.
  - CONTRACTOR SHALL PROVIDE A MINIMUM OF 2-1/4" INNER DUCT IN EVERY NEW CONDUIT.
  - CONTRACTOR SHALL PROVIDE A MINIMUM OF 15 FEET LOOP FOR EVERY NEW CABLE PULLED.
  - ALL EXISTING CONDITIONS/DRAWINGS ARE BASED ON BEST AVAILABLE INFORMATION AT THE TIME OF SURVEY AND VISUAL INSPECTION CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS.

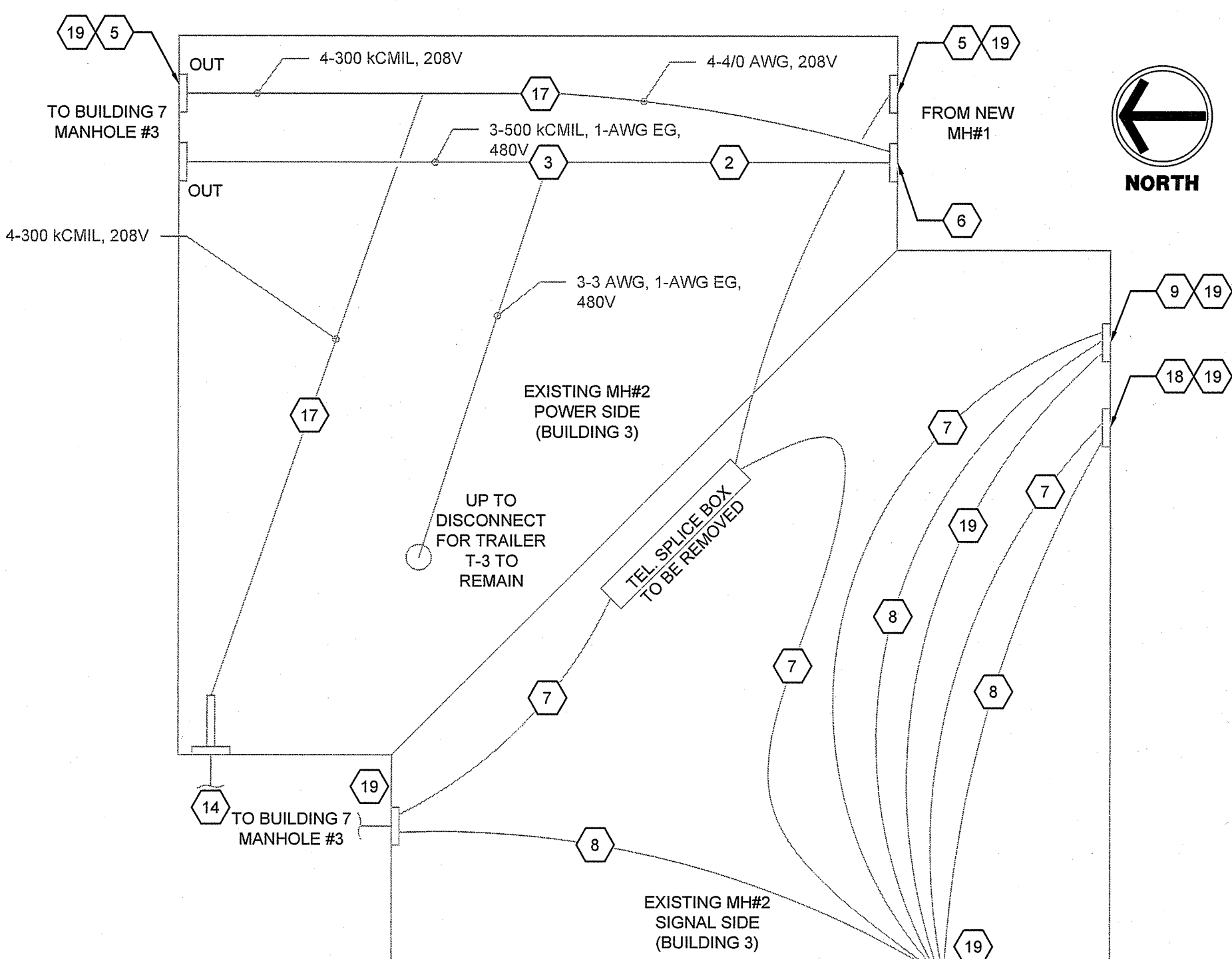
- ### KEY NOTES
- EXISTING ABANDONED 208V SERVICE CONDUCTORS TO BE REMOVED.
  - EXISTING 480V SERVICE CONDUCTORS TO REMAIN. CONTRACTOR SHALL CLEAN CABLE AND PROVIDE ID TAG PER VA REQUIREMENTS.
  - EXISTING CABLE TAP/SPICE TO BE REPLACED WITH NEW WEATHER PROOF TAP/SPICE. CONTRACTOR SHALL COORDINATE WITH COR.
  - EXISTING 480V SERVICE TO REMAIN. CONTRACTOR SHALL CLEAN CABLE AND PROVIDE ID TAG PER VA REQUIREMENTS.
  - EXISTING 3-1/2" CONDUIT TO REMAIN. CONTRACTOR SHALL REMOVE THE EXISTING 4-300 KCMIL ALL THE WAY TO MH#5, 4, AND 3. CAP CONDUIT AND SEAL AROUND CONDUIT WITH AN APPROVED WEATHER PROOF SEAL.
  - EXISTING 3-1/2" CONDUIT TO REMAIN. SEAL AROUND CONDUIT WITH AN APPROVED WEATHER PROOF SEAL.
  - EXISTING PHONE CABLE TO BE REMOVED AFTER NEW TELEPHONE CABLE IS INSTALLED.
  - EXISTING FIBER CABLE TO BE REMOVED AFTER NEW FIBER CABLE IS INSTALLED.
  - EXISTING 3" CONDUIT TO REMAIN. CONTRACTOR SHALL REMOVE EXISTING PHONE CABLE AND FIBER ALL THE WAY TO MH#5. CAP CONDUIT AND SEAL AROUND CONDUIT WITH AN APPROVED WEATHER PROOF SEAL.
  - NEW 3" CONDUIT FROM MH#5 TO MH#4, MH#4 TO MH#3, AND MH#3 TO MH#2 WITH NEW FIBER FOR DATA, COPPER FOR TELEPHONE AND FIBER FOR FIRE ALARM. SEE DRAWING E-501 FOR MORE INFO. SEE DETAIL ES1027 "B" FOR MORE INFO.
  - NEW FIBER FOR DATA AND FIRE ALARM. CONTRACTOR SHALL PROVIDE ID TAG PER VA REQUIREMENT. SEE DRAWING E-501 FOR MORE INFO.
  - NEW COPPER FOR TELEPHONE. CONTRACTOR SHALL PROVIDE ID TAG PER VA REQUIREMENT. SEE DRAWINGS E-501 FOR MORE INFO.
  - TO EXISTING BUILDING OIT ROOM.
  - TO EXISTING BUILDING ELECTRICAL PANEL.
  - NEW 3" CONDUIT FROM MH#5 TO MH#4, MH#4 TO MH#3, FROM MH#3 TO MH#2 AS A SPARE.
  - EXISTING 4-10 AWG TO BE REMOVED, CAP AND SEAL OPENING.
  - EXISTING 208V SERVICE CONDUCTORS FEEDING BUILDING 3 TO BE REMOVED COMPLETE AFTER NEW EMERGENCY 480V SERVICE IS INSTALLED.
  - EXISTING 4" CONDUIT TO REMAIN (FEEDING T4, T5 AND T6) CONTRACTOR SHALL REMOVE COPPER AND FIBER CABLE AFTER NEW CABLES ARE INSTALLED.
  - SEAL AND CAP EXISTING CONDUIT AFTER ALL CABLING IS REMOVED.
  - CONTRACTOR SHALL PULL NEW 3-6SM FIBER, 3-6MM FIBER AND 3-12 PR OUTDOOR/INDOOR CABLE TO T4, T5, AND T6 IN EXISTING 4" CONDUIT. CONTRACTOR SHALL VERIFY LOCATION AND ROUTING WITH COR. AFTER NEW CABLES ARE PULLED AND ACTIVATED, ALL EXISTING CABLES SHALL BE REMOVED. SEE E-501 FOR MORE INFO.
  - SEE DETAIL ES1027 "A" FOR MORE INFO.
  - SEE DETAIL ES1027 "B" FOR MORE INFO.



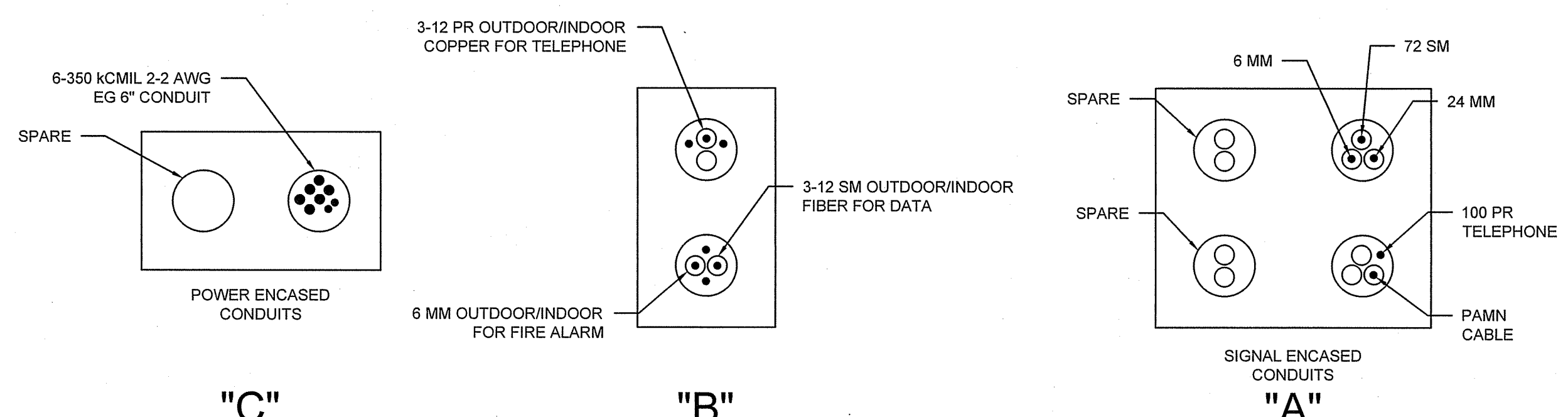
6 BUILDING 1 NEW MANHOLE #1 DETAIL  
 N.T.S.



5 BUILDING 3 REVISED EXISTING MANHOLE #2 DETAIL  
 N.T.S.



4 BUILDING 3 EXISTING MANHOLE #2 DETAIL  
 N.T.S.



7 CONDUIT ENCASED DETAILS  
 N.T.S.

100% CONSTRUCTION DOCUMENTS

CONSULTANTS:  	ARCHITECT/ENGINEERS:  Raleigh, NC Indianapolis, IN Philadelphia, PA Pittsburgh, PA Virginia Beach, VA Fort Collins, CO (919) 855-7420 www.apogee.com Apogee Project # 2014 121	Drawing Title <b>MANHOLE DETAILS</b>	Project Title <b>REPLACE MAIN ELECTRICAL TO OUT-BUILDINGS</b>	Project Number 610A4-12-188	Office of <b>Construction and Facilities Management</b> 
		Approved: Project Director	Location FORT WAYNE, IN	Building Numbers 1,3,5,6,7,10,14,T5,T6	
Revisions:  			Date 9/18/2015	Checked JKM	Drawn JWB