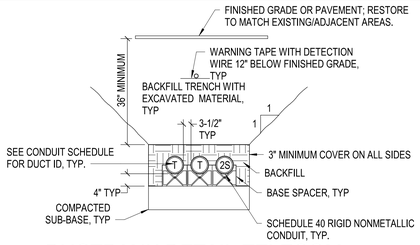
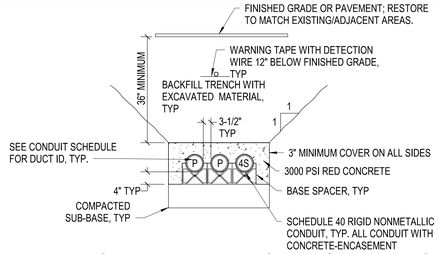


E1 DUCTBANK DETAIL-TELECOM
NO SCALE



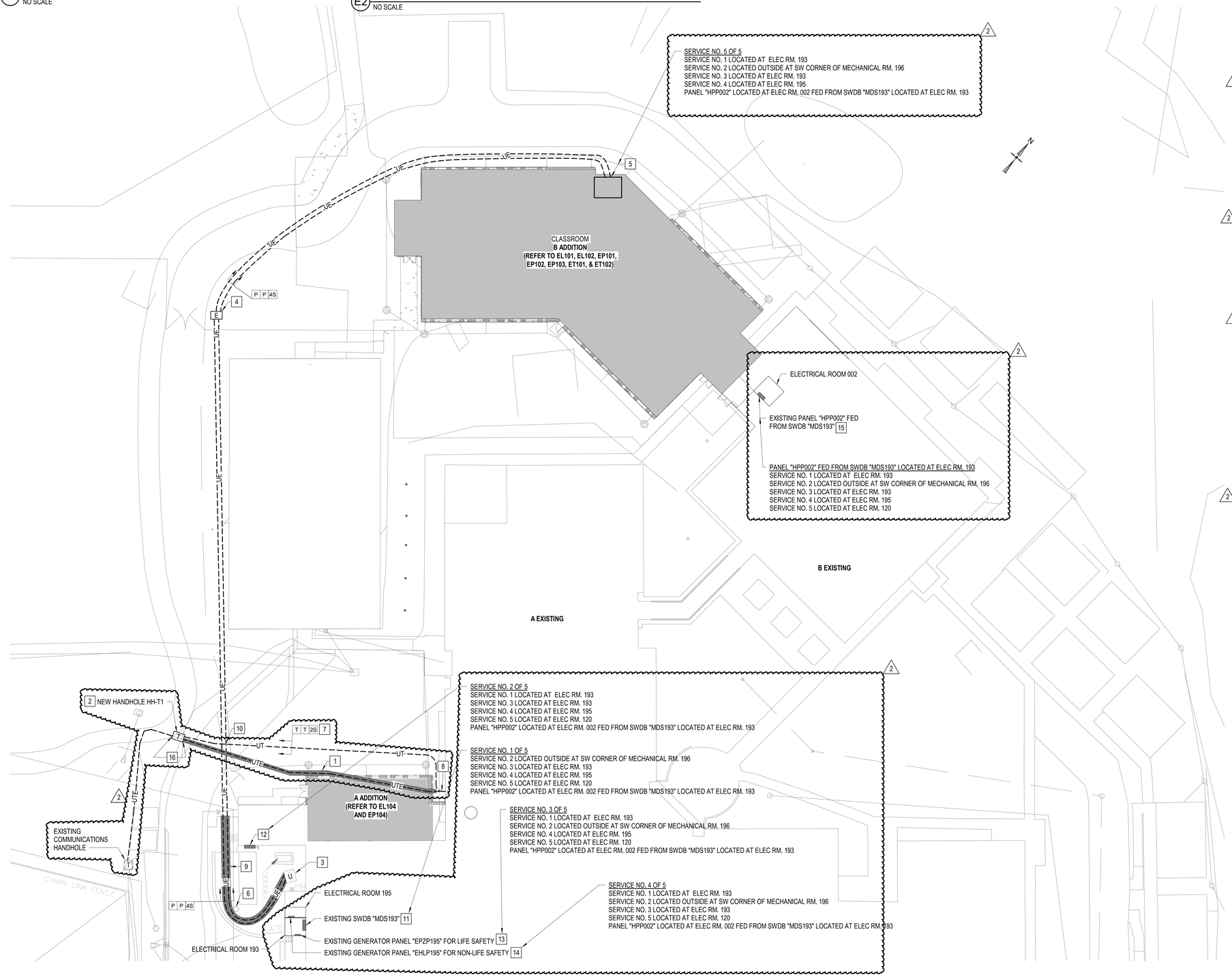
E2 DUCTBANK DETAIL-SERVICE XFMR SECONDARY
NO SCALE

CONDUIT SCHEDULE

TAG	DESCRIPTION
P	600V 4" WAY - SECONDARY POWER FROM UTILITY TRANSFORMER
4S	4" SPARE WAY FOR FUTURE USE
T	4" WAY -TELECOM CONDUITS FOR SERVICE PRVIDER CABLING
2S	2" SPARE WAY FOR FUTURE USE

SITE LEGEND

SYMBOL	DESCRIPTION
—UE—	NEW UNDERGROUND ELECTRICAL.
—UTE—	EXISTING UNDERGROUND TELECOMMUNICATONS (TO BE DEMOLISHED).
—UT—	NEW UNDERGROUND TELECOMMUNICATONS.
E	NEW ELECTRICAL HANDHOLE.
T	NEW TELECOMMUNICATIONS HANDHOLE.
PB	EXTERIOR RATED PULL BOX.
U	UTILITY TRANSFORMER.



A1 ELECTRICAL SITE PLAN
1" = 20'-0"

GENERAL NOTES

1. DUE TO THE LARGE SIZE OF THE BUILDING RESULTING IN AN EXCESSIVE VOLTAGE DROP FROM THE EXISTING SERVICE SWITCHBOARD TO ANY OF THE NEW ELECTRICAL DEVICES, A SECOND SERVICE IS REQUIRED BASED ON NEC 2017 ARTICLE 230.2(B)2. PROVIDE NEW PHENOLIC NAMEPLATE AT EACH EXISTING AND NEW SERVICE DISCONNECT STATING LOCATION OF ALL OTHER SERVICE DISCONNECTS TO COMPLY WITH NEC 230.2(E).
2. BOND NEWLY INSTALLED RACEWAYS.

KEY NOTES

1. DEMOLISH SHADED PORTION OF EXISTING (2) 4" AND (1) 2" UNDERGROUND TELECOM RACEWAYS. COORDINATE WITH UTILITIES (AT&T AND SPECTRUM) AND CMS PRIOR TO DEMOLITION. INSTALL NEW RACEWAY EXTENSION DESCRIBED IN KEY NOTES 7 AND 8. COORDINATE SERVICE SHUTDOWNS AND INSTALLATION OF NEW SERVICE PROVIDER CABLING WITH CMS AND UTILITIES. RELOCATION OF TELECOMMUNICATION RACEWAYS SHALL BE COMPLETED PRIOR TO CONSTRUCTION OF DINING HALL ADDITION.
2. NEW 30" x 48" x 24" TRAFFIC RATED OPEN-BOTTOM HANDHOLE.
3. EXISTING 750 KVA TRANSFORMER. COORDINATE WITH DUKE ENERGY AND CHARLOTTE MECKLENBURG SCHOOLS FOR SHUTDOWN OF SERVICE, TIE-IN OF NEW SERVICE CONDUITS, AND TERMINATION OF SECONDARY TRANSFORMER CABLING.
4. NEW 36" x 36" x 24" D TRAFFIC RATED HANDHOLE.
5. ~~TO FIRST FLOOR ELECTRICAL ROOM, PANEL MDP. REFER TO A1EC00.~~ PROVIDE PERMANENT PLAQUE FOR PANEL INDICATING SERVICE NUMBER 5 OF 5 AND LOCATIONS OF SERVICE NUMBER ONE, TWO, THREE AND FOUR DISCONNECTS AND PANEL HPP002 AS SHOWN ON THIS PLAN.
6. ~~EXISTING POLE LIGHT. COORDINATE WITH CONTRACTOR TO ENSURE THIS POLE LIGHT IS ACTIVE AND NOT DISTURBED DURING CONSTRUCTION OF NEW DUCTBANK.~~
7. (2) 4" RACEWAYS AND (1) 2" RACEWAY ROUTED TO HANDHOLE HH-T1 AT PROPERTY LINE. UNDERGROUND RACEWAYS REQUIRE WIDE, SWEEPING BENDS.
8. EXISTING (2) 4" AND (1) 2" RACEWAYS FOR INCOMING TELECOMMUNICATIONS CABLING CROSS EXISTING BUILDING FOOTPRINT AT THIS APROXIMATE LOCATION . CUT RACEWAYS AT CONVENIENT LOCATION AND COUPLE TO NEW RACEWAYS. EXTEND RACEWAYS TO NEW HANDHOLE HH-T1 AND TERMINATE AT HANDHOLE ACCORDINGLY.
9. CUT EXISTING PAVEMENT (INDICATED BY SHADED AREA) FOR INSTALLATION OF NEW DUCTBANK. PATCH PAVEMENT TO MATCH EXISTING UPON COMPLETION.
10. UNLESS THERE IS AN ADEQUATE LAYER OF SOIL, PROVIDE BOND-BREAKER AT DUCTBANK CROSSING (SEVERAL LAYERS OF TAR PAPER, BLUEBOARD INSULATION, ETC) TO ENSURE DUCTBANKS DO NOT COME INTO CONTACT AND THEY ARE ELECTRICALLY ISOLATED FROM ONE ANOTHER.
11. PROVIDE PERMANENT PLAQUE FOR PANEL INDICATING SERVICE NUMBER 1 OF 5 AND LOCATIONS OF SERVICE NUMBER TWO, THREE, FOUR AND FIVE DISCONNECTS AND PANEL HPP002 AS SHOWN ON THIS PLAN.
12. PROVIDE PERMANENT PLAQUE FOR THE EXISTING CHILLER DISCONNECT INDICATING SERVICE NUMBER 2 OF 5 AND LOCATIONS OF SERVICE NUMBER ONE, THREE, FOUR AND FIVE DISCONNECTS AND PANEL HPP002 AS SHOWN ON THIS PLAN.
13. PROVIDE PERMANENT PLAQUE FOR EXISTING GENERATOR PANEL "EPZP195" INDICATING SERVICE NUMBER 3 OF 5 AND LOCATIONS OF SERVICE NUMBER ONE, TWO, FOUR AND FIVE DISCONNECTS AND PANEL HPP002 AS SHOWN ON THIS PLAN.
14. PROVIDE PERMANENT PLAQUE FOR EXISTING GENERATOR PANEL "EHLP195" INDICATING SERVICE NUMBER 4 OF 5 AND LOCATIONS OF SERVICE NUMBER ONE, TWO, THREE, AND FIVE DISCONNECTS AND PANEL HPP002 AS SHOWN ON THIS PLAN.
15. ROVIDE PERMANENT PLAQUE FOR EXISTING PANEL "HPP002" INDICATING THIS PANEL FED FROM SWDB "MDS193" AND LOCATIONS OF SERVICE NUMBER ONE, TWO, THREE, FOUR AND FIVE DISCONNECTS AS SHOWN ON THIS PLAN.
16. CUT EXISTING TELECOMMUNICATIONS DUCTBANK AT THIS APPROXIMATE LOCATION FOR INSTALLATION OF NEW HANDHOLE HH-T1. TERMINATE EXISTING RACEWAYS AND NEW RACEWAYS EXTENSIONS TO OPPOSITE SIDES OF HANDHOLE ACCORDINGLY.

GRAPHIC SCALE

1" = 20' 0 10' 20' 40' 80'

SHARON ELEMENTARY SCHOOL ADDITION

4330 Foxcroft Rd.
Charlotte, NC 28211

cms Charlotte-Mecklenburg Schools

DESIGNER

CLARKNEXSEN
1111 METROPOLITAN AVE, SUITE 333
CHARLOTTE, NORTH CAROLINA 28204
704-377-8800 LICENCE#C-1028

TIMMONS GROUP
YOUR VISION ACHIEVED THROUGH OURS.
2030 TRYON STREET, STE 3C
CHARLOTTE, NC 28203
T: 704.376.1073

PROFESSIONAL SEAL

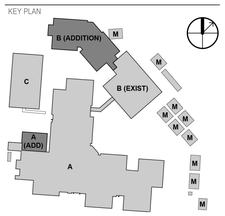
NORTH CAROLINA SEAL 021538 ENGINEER PATRICK J. ROSE
2020.03.30 15:57:06-04'00'

SUBMITTAL
FEBRUARY 19, 2020
FOR CONSTRUCTION ONLY

REVISIONS

1	03/13/20	REVIEW CYCLE 1
2	03/30/20	REVIEW CYCLE 2 /ADDENDUM #2

KEY PLAN



SHEET
ELECTRICAL SITE PLAN

E200

DESIGN: MDP
DRAWN: AJM
REVIEW: Checker

CN 8418

3/30/2020 3:48:30 PM
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