

LEGEND SHEET

UNDERGROUND PLAN

- EXISTING DIRECT BURIAL OR PARKWAY CABLE
- ABANDON DIRECT BURIAL OR PARKWAY CABLE
- INSTALL DIRECT BURIAL OR PARKWAY CABLE (NO. & SIZE AS INDICATED)
- 1-3" --- INSTALL DIRECT BURIAL CONDUIT (1-3" SHOWN)
- EXISTING SINGLE P.L.D. DUCT RUN
- 4-3" --- EXISTING P.L.D. DUCT RUN (4-3" SHOWN)
- ABANDON EXISTING P.L.D. DUCT RUN (2-3" SHOWN)
- 1-3" --- BUILD 1-3" ENCASED CONDUIT
- OR
- 4-4" --- BUILD MULTIPLE ENCASED CONDUIT (4-4" SHOWN)
- 2-3" --- GALVANIZED STEEL CONDUIT, JACKING-BORING (2-3" SHOWN)
- EXISTING P.L.D. HANDHOLE
- M.H.1234 EXISTING P.L.D. MANHOLE
- BUILD ROUND HANDHOLE
- BUILD TYPE "D" HANDHOLE
- M.H.7890 BUILD NEW MANHOLE (2-WAY)
- △ M.H.1234 BUILD NEW MANHOLE (3-WAY)
- ◇ M.H.5678 BUILD NEW MANHOLE (CORNER)
- ◇ M.H.9012 BUILD NEW MANHOLE (4-WAY)
- BUILD TRAFFIC SIGNAL CONTROLLER FDN.
- BUILD T.S. MAST ARM STANDARD FDN.
- BUILD T.S. PEDESTAL FDN.
- BUILD STEEL SHAFT POLE FDN.
- △ EXISTING FIRE OR POLICE CALL BOX
- ▲ INSTALL NEW FIRE OR POLICE CALL BOX (EXCEPT AS OTHERWISE INDICATED)
- ▲ INSTALL SALVAGED FIRE OR POLICE CALL BOX (EXCEPT AS OTHERWISE INDICATED)
- INSTALL MULT. ST. LTG. CONTROL CABINET ON NEW FDN.
- ☼ EXISTING U.G.-FED ST. LTG. UNIT
- ☼ EXISTING U.G.-FED ST. LTG. UNIT WITH DBL. ARM
- ☼ FUTURE U.G.-FED ST. LTG. UNIT
- ☼ REMOVE U.G.-FED ST. LTG. UNIT & FOUNDATION (EXCEPT AS OTHERWISE NOTED)
- ☼ INSTALL SALVAGED U.G.-FED ST. LTG. UNIT ON NEW FDN. RPL. EX. WITH 250 W. TYPE III SODIUM VAPOR LUMINAIRE.
- ☼ INSTALL COMB. T.S. & ST. LTG. STD, 6FT. CLAMP-ON BRACKET ARM (3'-0" RISE) & 250 W. TYPE III SODIUM VAPOR LUMINAIRE ON NEW FDN.
- ☼ INSTALL CODE 009-00 ST. LTG. STD, 6FT. CLAMP-ON BRACKET ARM (3'-0" RISE) & 250 W. TYPE III SODIUM VAPOR LUMINAIRE ON NEW FDN.
- ☼ REMOVE U.G.-FED ST. LTG. UNIT. INSTALL CODE 009-00 ST. LTG. STD, 6 FT. CLAMP-ON BRACKET ARM (3'-0" RISE) & 250 W. TYPE III SODIUM VAPOR LUMINAIRE ON EXIST. MODIFIED FDN.
- ☼ REMOVE LUMINAIRE & COIL. INSTALL 250 W. TYPE III SODIUM VAPOR LUMINAIRE.
- "T" INDICATES TRAFFIC SIGNAL CONTACT ON ST. LTG. STD.

OVERHEAD PLAN

- EXISTING WOOD POLE (D.E. CO. POLE SHOWN)
- REMOVE WOOD POLE (P.L.D. POLE SHOWN)
- REPLACE WOOD POLE (HEIGHT & CLASS AS INDICATED)
- ✕ INSTALL 35FT. CLASS 4 WOOD POLE (EXCEPT WHERE OTHERWISE NOTED) (USE SALVAGED POLE WHERE INDICATED)
- EXISTING OVERHEAD ST. LTG. UNIT
- REMOVE OVERHEAD ST. LTG. UNIT
- INSTALL OVERHEAD ST. LTG. UNIT WITH 8FT. ARM (LUMINAIRE & LAMP SIZE AS INDICATED) (USE SALVAGED UNIT WHERE NOTED)
- INSTALL NEW 100W. MERCURY VAPOR LUMINAIRE FOR ALLEY LTG. WITH NEW SERIES COIL & NEW 10 FT. BRACKET ARM. (USE SALVAGED UNIT WHERE INDICATED.)
- INDICATES 2-WAY
- STA-24 (2-#6) EXISTING OVERHEAD LINE (2-#6 OF STANTON-24 SHOWN)
- 3-#2 (STA-662) REMOVE OVERHEAD LINE (3-#2 OF STANTON-662 SHOWN)
- 2-#6 (STA-24) INSTALL OVERHEAD LINE (2-#6 OF STANTON-24 SHOWN)
- 3-#6 (MULT) INSTALL & LATER REMOVE OVERHEAD LINE (3-#6 MULT. SHOWN)
- 1/2" GUY INSTALL GUY & ANCHOR (1/2" GUY SHOWN)
- 1/2" P REMOVE GUY & ANCHOR
- 3/8" A INSTALL POLE GUY (1/2" GUY SHOWN)
- P OR A INSTALL ARM GUY (3/8" GUY SHOWN)
- REMOVE GUY (TYPE AS INDICATED)
- IN MATERIAL TO BE INSTALLED.
- RM MATERIAL TO BE REMOVED
- M.S.S. MAKE WOOD POLE SELF-SUPPORTING IN CRUSHED STONE
- XYZ PHASES OF P.L.D. DISTRIBUTION WIRES OR EQUIPMENT
- E D.E. CO. DISTRIBUTION WIRE
- es D.E. CO. SECONDARY WIRE
- C.P. CABLE POLE
- INSTALL SUSPENSION INSULATOR
- EXISTING → C C P.L.D. DISTRIBUTION WIRE
- PROPOSED → CS CS P.L.D. SECONDARY WIRE
- EXISTING → A A P.L.D. SERIES ST. LTG. WIRE
- PROPOSED → M M P.L.D. MULTIPLE STREET LIGHTING WIRE

GENERAL

- PROPERTY LINE
- EXISTING FACE OF CURB WHEN NEW STREET CONST.
- PROPOSED FACE OF CURB WHEN NEW STREET CONST. OR EXISTING FACE OF CURB WHEN NO STREET CONST.
- FUTURE PAVEMENT LIMIT
- S SEWER LINE, MANHOLE, & CATCH BASIN
- E DETROIT EDISON COMPANY U.G. LINE & MANHOLE
- T MICH. BELL TEL. COMPANY U.G. LINE & MANHOLE
- W WATERMAIN & GATEWELL
- G MICH. CONSOLIDATED GAS CO. U.G. LINE & WELL
- OTHER UTILITIES SHOWN SIMILAR

DIAGRAMS & CONDUIT ALLOCATION

(U.G.-FED STD. SYMBOLS SAME AS UNDERGROUND LEGEND OF THIS SHEET.)

M.H.1234 PROPOSED MANHOLE
M.H.5678 EXISTING MANHOLE
H.H. PROPOSED HANDHOLE
H.H. EXISTING HANDHOLE

M.H.1234 PROPOSED MANHOLE IN SAME LOCATION AS EXIST. HOLE

INSTALL U.G. CABLE OR O.H. WIRE AS NOTED
EXISTING U.G. CABLE OR O.H. WIRE AS NOTED

--- U.G. CABLE TO BE ABANDONED
--- U.G. CABLE OR O.H. WIRE TO BE REMOVED AS NOTED

○ SECTION OF PROP. CONDUIT WITH PROP. CABLE
○ SECTION OF EXISTING CONDUIT WITH EXISTING CABLE
○ SECTION OF EXISTING CONDUIT WITH EXIST. & PROP. CABLE
○ 1-3" CONDUIT BROKEN OUT IN HANDHOLE
○ 3-3" CONDUIT BY-PASSING HANDHOLE

LEGEND:

- 1 T.S. FEEDER CABLE
- 2 T.S. CHRONOPLAN CABLE
- 3 T.S. CABLE
- 4 SERIES ST. LTG. CABLE
- 5 FUTURE CABLE
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DISCONNECT, INSULATE AND CAP CABLE END
SPlice STRAIGHT THRU
SPICES

1-#8 INDICATES 7500V, 1-1/C #8 L.C. ST. LTG. CABLE
2-#8 INDICATES 7500V, 2-1/C #8 L.C. ST. LTG. CABLES
2/1 INDICATES 600V, 2-1/C #2 ST. LTG. CABLES & 1-#2 NEUTRAL
2/1 INDICATES 600V, 2-1/C #2 ST. LTG. CABLES & 1-#2 NEUTRAL (ALL UNLABELED CABLE GROUPS ON WIRING DIAGRAMS ARE SUCH)

1#2 INDICATES 600V, 1-1/C #2 ST. LTG. CABLE
1/1 INDICATES 600V, 1-1/C #2 ST. LTG. CABLE & 1-#2 NEUTRAL
3/1 INDICATES 600V, 3-1/C #2 ST. LTG. CABLES & 1-#2 NEUTRAL

3 INDICATES DRWG. NO. OF AREA (APPLIES TO U.G. CABLE ITEMS ONLY)

POR 301 A1-1 INDICATES NEW ST. LTG. STANDARD NUMBER
POR 24-26 INDICATES OLD ST. LTG. STANDARD NUMBER

TRAFFIC SIGNAL PLAN

- INSTALL 3-SECTION TRAFFIC SIGNAL (1-WAY SHOWN)
- INSTALL 3-SECTION TRAFFIC SIGNAL WITH SALVAGED HEADS (2-WAY SHOWN)
- REMOVE 3-SECTION TRAFFIC SIGNAL (3-WAY SHOWN)
- EXISTING 3-SECTION TRAFFIC SIGNAL (4-WAY SHOWN)
- INSTALL 2-SECTION PEDESTRIAN (WALK-DON'T WALK) TRAFFIC SIGNAL (2-WAY SHOWN)
- INSTALL 2-SECTION PEDESTRIAN (WALK-DON'T WALK) TRAFFIC SIGNAL WITH SALVAGED HEAD (1-WAY SHOWN)
- REMOVE 2-SECTION PEDESTRIAN (WALK-DON'T WALK) TRAFFIC SIGNAL (1-WAY SHOWN)
- EXISTING 2-SECTION PEDESTRIAN (WALK-DON'T WALK) TRAFFIC SIGNAL (1-WAY SHOWN)
- INSTALL JUNCTION BOX
- INSTALL SALVAGED JUNCTION BOX
- REMOVE JUNCTION BOX
- EXISTING JUNCTION BOX
- INSTALL OVERHEAD PLASTIC JACKETED CABLE
- EXISTING OVERHEAD PLASTIC JACKETED CABLE
- REMOVE OVERHEAD PLASTIC JACKETED CABLE
- INSTALL TRAFFIC SIGNAL CONTROLLER (NEW OR SALVAGED AS INDICATED) ON NEW FDN.
- INSTALL CANTILEVER TYPE TRAFFIC SIGNAL MAST ARM STANDARD & MAST ARM ON NEW FOUNDATION. (EXCEPT AS OTHERWISE INDICATED)
- INSTALL 8 FT. TRAFFIC SIGNAL PEDESTAL ON NEW FOUNDATION (EXCEPT AS OTHERWISE INDICATED)
- INSTALL STEEL SHAFT POLE ON NEW FDN.
- EXISTING TRAFFIC SIGNAL CONTROLLER
- EXISTING MAST ARM STANDARD
- EXISTING PEDESTAL
- EXISTING STEEL SHAFT POLE
- BACK-CUT LAMPS & HOOD SIGNALS (INCIDENTAL TO INSTALLATION OF T.S. ON THIS CONTRACT).
- REMOVE HOOD & INSTALL LAMPS (INCIDENTAL TO INSTALLATION OF T.S. ON THIS CONTRACT).
- POCH POLE CONTACT HEIGHT OF T.S. SPAN WIRE
- L.C.H. LOW CONTACT HEIGHT OF SPAN WIRE T.S. TO SPAN WIRE
- 2 INDICATES TYPE OF SIDEWALK RAMP TO BE CONSTRUCTED.

FOR THIS CONTRACT USE P.L.D. STANDARD DETAIL SHEETS 1 THRU 45 (EXCEPT WHERE OTHERWISE NOTED). OBTAIN FROM CITY ENGINEERING DIVISION EPMD.

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2	GENERAL INFORMATION
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8	T.S. AT MACK & RUSSELL - T.S. AT ELIOT & RUSSELL
9-12	DETAILS
13 & 14	QUANTITY SHEETS

CONTRACTOR TO SALVAGE ALL REMOVED O.P. ST. LTG. UNITS, ALL REMOVED ST. LTG. FIXTURES, & ALL REMOVED SERIES COILS & DELIVER TO P.L.D.

DATE	DESCRIPTION	CHKD BY
10-16-81	DRWG. NO. 2, 4, 6, 7, & 13 MODIFIED TO REFLECT DELETION OF CONDUIT, M.H.'S, H.H.'S, LTG. UNITS & CABLES IN NEW WATSON EASEMENT & SERV. DR. TO OF RIVARD. INSTALL NEW CONDUIT & CABLE IN EXISTING EASEMENT W. OF RIVARD. C.E.A.	

WIDENING OF CHRYSLER E. SERV. DR., RIVARD,
PAVING OF RUSSELL & MISCELLANEOUS CONSTRUCTION
WHOLESALE DISTRIBUTION CENTER NO.2 MICH. R-165

SHEET 31 OF 44 SHEETS
CONTRACT NO.
ASSIGNMENT NO.
DATE

CITY OF DETROIT
CITY ENGINEERING DIVISION EPMD
BUREAU OF STREETS AND HIGHWAYS
FOR
COMMUNITY AND ECONOMIC
DEVELOPMENT DEPARTMENT

DRAWN CEA
CHECKED
APPROVED
DATE 3-10-80

PLAN PREPARED BY:
CONSULTING ENGINEERING ASSOCIATES INC.
ENGINEERING CONSULTANTS
16580 WYOMING DETROIT, MICH. 48221

DRAWN BY
CHECKED BY
APPROVED BY

PUBLIC LIGHTING
COMMISSION
CITY OF DETROIT

FILE NO. 51-0564
SHEET NO. 1 OF 14
DATE 3-10-80

OCT 16 1981

LEGEND

LEGEND SHEET

UNDERGROUND PLAN

- EXISTING DIRECT BURIAL OR PARKWAY CABLE
- ABANDON DIRECT BURIAL OR PARKWAY CABLE
- INSTALL DIRECT BURIAL OR PARKWAY CABLE (NO. & SIZE AS INDICATED)
- 1-3" --- INSTALL DIRECT BURIAL CONDUIT (1-3" SHOWN)
- EXISTING SINGLE P.L.D. DUCT RUN
- 4-3" --- EXISTING P.L.D. DUCT RUN (4-3" SHOWN)
- ABANDON EXISTING P.L.D. DUCT RUN (2-3" SHOWN)
- 1-3" --- BUILD 1-3" ENCASED CONDUIT
- OR
- 4-4" --- BUILD MULTIPLE ENCASED CONDUIT (4-4" SHOWN)
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- BUILD ROUND HANDHOLE
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- M.H.7890 BUILD NEW MANHOLE (2-WAY)
- △ M.H.1234 BUILD NEW MANHOLE (3-WAY)
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- BUILD TRAFFIC SIGNAL CONTROLLER FDN.
- BUILD T.S. MAST ARM STANDARD FDN.
- BUILD T.S. PEDESTAL FDN.
- BUILD STEEL SHAFT POLE FDN.
- △ EXISTING FIRE OR POLICE CALL BOX
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- ☀ INSTALL CODE 009-00 ST. LTG. STD, 6FT. CLAMP-ON BRACKET ARM (3'-0" RISE) & 250 W. TYPE III SODIUM VAPOR LUMINAIRE ON NEW FDN.
- ☀ REMOVE UG.-FED ST. LTG. UNIT. INSTALL CODE 009-00 ST. LTG. STD, 6 FT. CLAMP-ON BRACKET ARM (3'-0" RISE) & 250 W. TYPE III SODIUM VAPOR LUMINAIRE ON EXIST. MODIFIED FDN.
- ☀ REMOVE LUMINAIRE & COIL. INSTALL 250 W. TYPE III SODIUM VAPOR LUMINAIRE.
- "T" INDICATES TRAFFIC SIGNAL CONTACT ON ST. LTG. STD.

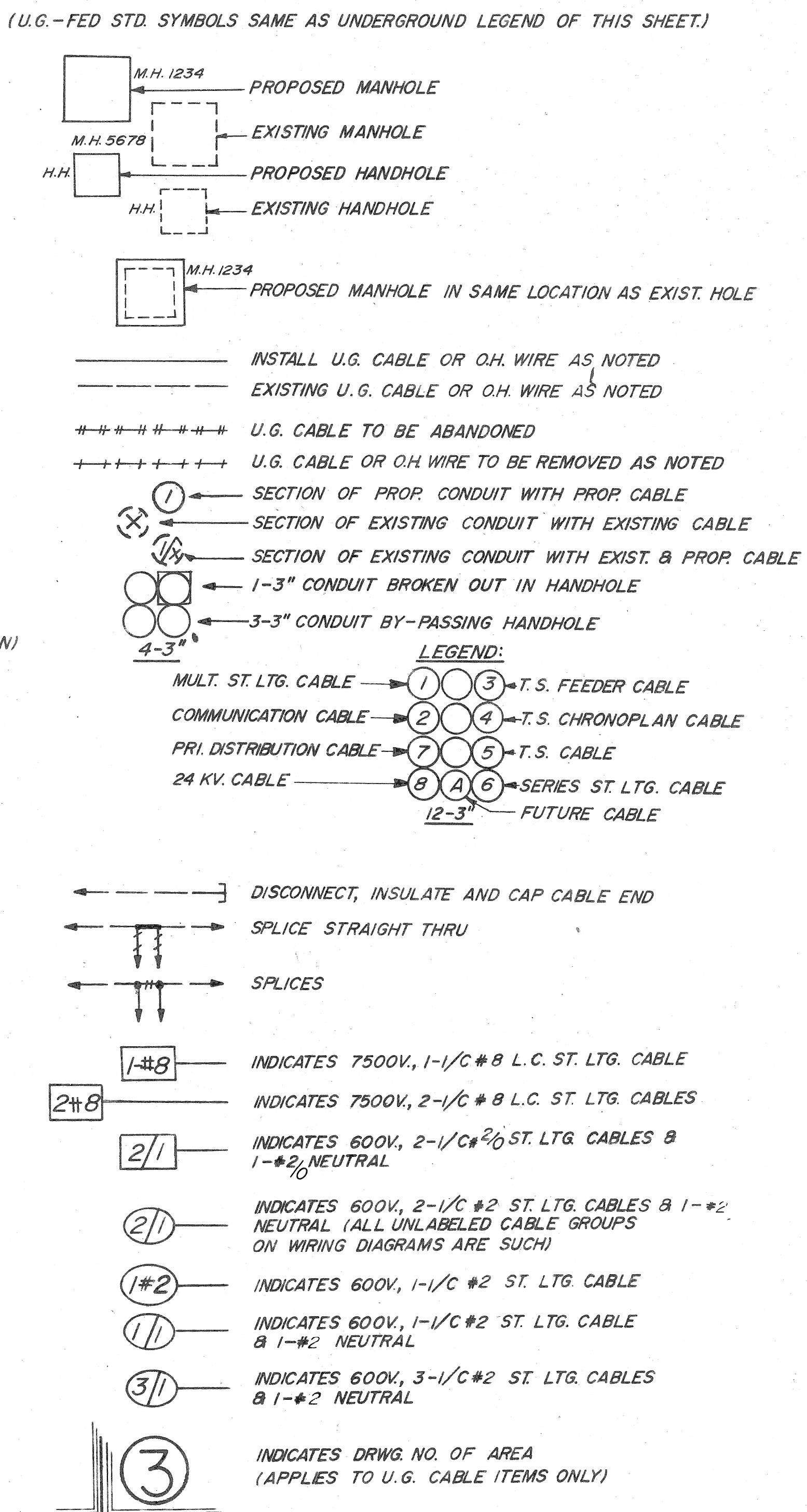
OVERHEAD PLAN

- EXISTING WOOD POLE (D.E. CO. POLE SHOWN)
- REMOVE WOOD POLE (P.L.D. POLE SHOWN)
- REPLACE WOOD POLE (HEIGHT & CLASS AS INDICATED)
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- EXISTING OVERHEAD ST. LTG. UNIT
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- INSTALL OVERHEAD ST. LTG. UNIT WITH 8 FT. ARM (LUMINAIRE & LAMP SIZE AS INDICATED) (USE SALVAGED UNIT WHERE NOTED)
- INSTALL NEW 100 W. MERCURY VAPOR LUMINAIRE FOR ALLEY LTG. WITH NEW SERIES COIL & NEW 6 FT. BRACKET ARM. (USE SALVAGED UNIT WHERE INDICATED.)
- INSTALL NEW 250 W. MERCURY VAPOR LUMINAIRE, TYPE I, (2-WAY, OR 4-WAY AS SHOWN) FOR RESIDENTIAL LTG. WITH NEW SERIES COIL & NEW 10 FT. BRACKET ARM. (USE SALVAGED UNIT WHERE INDICATED.)
- INDICATES 2-WAY
- STA-24 (2-#6) EXISTING OVERHEAD LINE (2-#6 OF STANTON-24 SHOWN)
- 3-#2 (STA-662) REMOVE OVERHEAD LINE (3-#2 OF STANTON-662 SHOWN)
- 2-#6 (STA-24) INSTALL OVERHEAD LINE (2-#6 OF STANTON-24 SHOWN)
- 3-#6 (MULT.) INSTALL & LATER REMOVE OVERHEAD LINE (3-#6 MULT. SHOWN)
- 1/2" GUY SHOWN) INSTALL GUY & ANCHOR (1/2" GUY SHOWN)
- 1/2" GUY SHOWN) REMOVE GUY & ANCHOR
- 3/8" GUY SHOWN) INSTALL ARM GUY (3/8" GUY SHOWN)
- P OR A REMOVE GUY (TYPE AS INDICATED)
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- INSTALL SUSPENSION INSULATOR
- EXISTING → C C P.L.D. DISTRIBUTION WIRE
- PROPOSED → CS CS P.L.D. SECONDARY WIRE
- EXISTING → A A P.L.D. SERIES ST. LTG. WIRE
- PROPOSED → M M P.L.D. MULTIPLE STREET LIGHTING WIRE

GENERAL

- PROPERTY LINE
- EXISTING FACE OF CURB WHEN NEW STREET CONST.
- PROPOSED FACE OF CURB WHEN NEW STREET CONST. OR EXISTING FACE OF CURB WHEN NO STREET CONST.
- FUTURE PAVEMENT LIMIT
- SEWER LINE, MANHOLE & CATCH BASIN
- DETROIT EDISON COMPANY U.G. LINE & MANHOLE
- MICH. BELL TEL. COMPANY U.G. LINE & MANHOLE
- WATERMAIN & GATEWELL
- MICH. CONSOLIDATED GAS CO. U.G. LINE & WELL (OTHER UTILITIES SHOWN SIMILAR)

DIAGRAMS & CONDUIT ALLOCATION



TRAFFIC SIGNAL PLAN

- INSTALL 3-SECTION TRAFFIC SIGNAL (1-WAY SHOWN)
- INSTALL 3-SECTION TRAFFIC SIGNAL WITH SALVAGED HEADS (2-WAY SHOWN)
- REMOVE 3-SECTION TRAFFIC SIGNAL (3-WAY SHOWN)
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- INSTALL 2-SECTION PEDESTRIAN (WALK-DON'T WALK) TRAFFIC SIGNAL WITH SALVAGED HEAD (1-WAY SHOWN)
- REMOVE 2-SECTION PEDESTRIAN (WALK-DON'T WALK) TRAFFIC SIGNAL (1-WAY SHOWN)
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- INSTALL SALVAGED JUNCTION BOX
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- INSTALL 8 FT. TRAFFIC SIGNAL PEDESTAL ON NEW FOUNDATION (EXCEPT AS OTHERWISE INDICATED)
- INSTALL STEEL SHAFT POLE ON NEW FDN.
- EXISTING TRAFFIC SIGNAL CONTROLLER
- EXISTING MAST ARM STANDARD
- EXISTING PEDESTAL
- EXISTING STEEL SHAFT POLE
- BACK-CUT LAMPS & HOOD SIGNALS (INCIDENTAL TO INSTALLATION OF T.S. ON THIS CONTRACT).
- REMOVE HOOD & INSTALL LAMPS (INCIDENTAL TO INSTALLATION OF T.S. ON THIS CONTRACT).
- POCH POLE CONTACT HEIGHT OF T.S. SPAN WIRE
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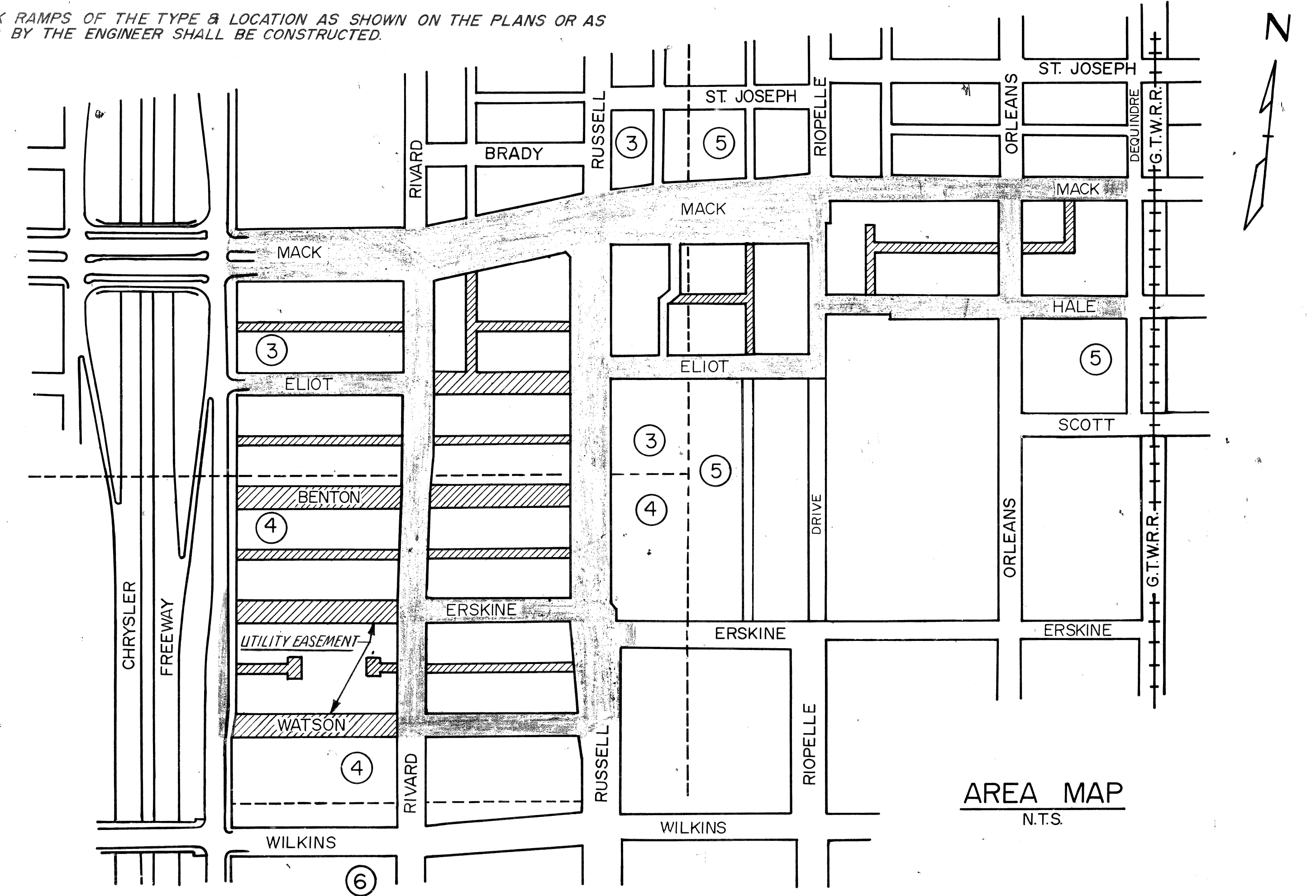
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DATE	DESCRIPTION	CHKD BY	WIDENING OF CHRYSLER E. SERV. DR., RIVARD, PAVING OF RUSSELL & MISCELLANEOUS CONSTRUCTION WHOLESALE DISTRIBUTION CENTER NO.2 MICH. R-165		SHEET 31 OF 44 SHEETS	CITY OF DETROIT CITY ENGINEERING DIVISION EPMO BUREAU OF STREETS AND HIGHWAYS FOR COMMUNITY AND ECONOMIC DEVELOPMENT DEPARTMENT	DRAWN CEA CHECKED APPROVED DATE 3-10-80	PLAN PREPARED BY: CONSULTING ENGINEERING ASSOCIATES INC. ENGINEERING CONSULTANTS 16580 WYOMING DETROIT, MICH. 48221	DRAWN BY CHECKED BY APPROVED BY	PUBLIC LIGHTING COMMISSION CITY OF DETROIT	FILE NO. 51-0564 SHEET NO. 1 OF 14 DATE 3-10-80
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GENERAL INFORMATION SHEET

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1. CALL MISS DIG (647-7344) 48 HRS. PRIOR TO ANY EXCAVATION FOR THE LOCATIONS OF UNDERGROUND UTILITIES.
2. CONTRACTOR TO NOTIFY MICH. CONS. GAS CO. AT WO-5-9000 IF PROTECTIVE COATED GAS MAIN IS EXPOSED OR DAMAGED.
3. A MINIMUM CLEARANCE OF 3'-6" HORIZONTAL & 1' VERTICAL MUST BE MAINTAINED BETWEEN PROPOSED P.L.D. FACILITIES & EXISTING WATER FACILITIES.
4. CONTRACTOR SHALL NOTIFY SYSTEM OPERATING DIVISION OF THE P.L.D. 48 HRS. IN ADVANCE OF ANY WORK ON UNDERGROUND OR OVERHEAD TRANSMISSION, DISTRIBUTION, & ST. LTG. CIRCUITS. PHONE 961-1360.
5. ALL EXISTING STREET LIGHTING, TRAFFIC SIGNAL, PRIMARY, TRANSMISSION ETC. CIRCUITS SHALL ALWAYS BE MAINTAINED IN AN OPERATIONAL CONDITION (EXCEPT WHERE OTHERWISE NOTED).
6. EXISTING O.H. & T.S. FACILITIES ARE NOT NECESSARILY SHOWN ON PLANS.
7. ALL OVERHEAD WIRES & UNDERGROUND CABLES SHALL CONSIST OF COPPER CONDUCTORS AS PER THE SPECIFICATIONS.
8. WHERE INSTALLATION OF NEW MANHOLES OVER EXISTING CONDUITS (TO ACCOMMODATE NEW & EXIST. CONDUITS) IS CALLED FOR ON PLANS, CONTRACTOR SHALL CAREFULLY & SO AS NOT TO DAMAGE EXIST. CABLES, REMOVE THE EXIST. CONDUITS & ENCASEMENT WITHIN MANHOLES. EXIST. CABLES SHALL BE EXTENDED & PROPERLY TRAINED, RACKED & SUPPORTED.
9. NEW CONDUITS BROKEN INTO EXISTING MANHOLES OR HANDHOLES SHALL NOT INTERFERE WITH RACKING AND/OR TRAINING OF CABLES. EXERCISE CAUTION INSTALLING NEW CABLES INTO EXIST. HOLES.
10. ALL CONDUITS NOT TERMINATING IN STRUCTURES SUCH AS MANHOLES, HANDHOLES OR FOUNDATIONS SHALL EXTEND 2 FT. BEYOND PAVEMENT LIMIT (EXCEPT AS OTHERWISE INDICATED). ALL UNOCCUPIED CONDUITS SHALL BE PLUGGED.
11. WHERE ABANDONING OF U.G. CABLES IS CALLED FOR ON PLANS OR DIAGRAMS, CONTRACTOR SHALL CUT & REMOVE CABLES WITHIN MANHOLES & HANDHOLES.
12. UNDERGROUND CABLE QUANTITIES ARE ITEMIZED ON GENERAL PLANS. ALL CABLES SHALL BE TAGGED IN ALL MANHOLES & HANDHOLES. THIS INCLUDES EXIST. CABLES THAT ARE CONVERTED TO MULTIPLE, RECONNECTED TO OTHER CIRCUITS OR RENDERED DEAD.
13. ALL LUMINAIRES SHALL BE PROVIDED WITH 240V. INTERNAL BALLASTS (EXCEPT AS OTHERWISE NOTED).
14. THE CANDLEPOWER DISTRIBUTION FOR ALL MERCURY VAPOR ST. LTG. LUMINAIRES SHALL BE SEMI-CUTOFF, MEDIUM DISTRIBUTION OF TYPE AS INDICATED ON THE PLANS.
15. ALL NEW, SALVAGED & CONVERTED ST. LTG. STD'S. SHALL BE PAINTED.
16. ALL NEW & SALVAGED ST. LTG. STD'S. INSTALLED ON THIS CONTRACT & EXIST. ST. LTG. STD'S. CONVERTED OR RE-CONNECTED TO OTHER CIRCUITS SHALL BE STENCILLED OR RE-STENCILLED AS SHOWN ON PLANS. (STENCILLING & RESTENCILLING OF ST. LTG. STD'S. IS INCIDENTAL TO ST. LTG. STD.)
17. ALL TREE TRIMMING REQUIRED TO CLEAR NEW OR SALVAGED ST. LTG. & TRAFFIC SIGNAL STD'S. & O.H. ST. LTG. & TRAFFIC SIGNAL UNITS SHALL BE INCIDENTAL TO THE PAY-ITEM & NO EXTRA PAYMENT SHALL BE MADE.
18. WHERE TRIMMING OF TREES ON CITY PROPERTY IS CALLED FOR ON PLANS THE CONTRACTOR SHALL OBTAIN A PERMIT FROM THE RECREATION DEPT. OF THE CITY OF DETROIT AND SHALL HAVE SUCH WORK DONE BY A LICENSED TREE SERVICE CONTRACTOR. CALL MR. CRAIG GRANT AT 931-3950.
19. WHERE U.G. UTILITIES INTERFERE WITH THE INSTALLATION OF A NEW FOUNDATION, INSTALL THE SPECIAL FOUNDATION OF PARTICULAR DIMENSIONS AS INDICATED ON THE DETAIL DRWG. TO SUIT THE FIELD CONDITION. THERE WILL BE NO EXTRA PAYMENT FOR THE SPECIAL FOUNDATION. IT WILL BE PAID FOR AS A NORMAL FOUNDATION.
20. ALL NEW U.G.-FED ST. LTG. UNITS SHALL BE INSTALLED 2'-6" BACK OF CURB UNLESS OTHERWISE INDICATED ON PLANS.
21. BAND INSULATED CLEVIS TO ST. LTG. STD. SHAFT. BRING U.G. CABLES THRU TOP OF SHAFT WITH WEATHERCAP TO FIT SHAFT OPENING. STORE SHAFT CAP IN BASE OF STANDARD. CONNECTION OF O.H. WIRES TO U.G. CABLES SHALL BE MADE OUTSIDE OF SHAFT (INCIDENTAL TO INSTALLATION OF O.H. WIRES).
22. RAND SEC. RACK TO ST. LTG. STD. SHAFT. BRING U.G. CABLES THRU TOP OF SHAFT WITH WEATHERCAP TO FIT SHAFT OPENING. STORE SHAFT CAP IN BASE OF STD. CONNECTION OF O.H. WIRES TO U.G. CABLES SHALL BE MADE OUTSIDE OF SHAFT (INCIDENTAL TO INSTALLATION OF O.H. WIRES).
23. REMOVE WEATHERCAP & INSULATED CLEVIS OR SEC. RACK FROM ST. LTG. STD. SHAFT. MOUNT SHAFT CAP ON ST. LTG. STD. (INCIDENTAL TO REMOVAL OF O.H. WIRES).
24. FOR LOCATIONS OF P.L.D. INSTALLATIONS ON STRUCTURES SUCH AS CONDUITS, HANDHOLES, CONDUIT SLEEVES, GALVANIZED STEEL CONDUITS & ST. LTG. STD. ANCHOR BOLTS SEE STRUCTURE PLANS.
25. INSTALLATION OF ARMS FOR EQUIPMENT, CUTOUTS, POTHEADS, TRANSFORMERS, ETC. ARE NOT SHOWN ON NEW CABLE AND TRANSFORMER POLES. THEY SHALL BE INSTALLED AS PER THE DETAIL DRWG. REQUIREMENT AND SHALL BE INCIDENTAL TO THE FITTING-UP OF THE CABLE AND/OR TRANSFORMER POLE.
26. ALL TRANSFORMER POLES AND CABLE POLES SHALL BE FITTED UP WITH 120" ARMS (EXCEPT WHERE OTHERWISE NOTED).
27. ALL NEW ANCHOR GUYS SHALL BE INSTALLED ON A 1:1 RATIO OR AS NEARLY AS POSSIBLE (EXCEPT WHERE OTHERWISE NOTED. STRUT GUYS ARE EXCEPTED).
28. ALL POTHEADS ON PRIMARY DISTRIBUTION CABLE POLES SHALL BE FLAT DIVERGENT DISCONNECTING TYPE.
29. INSTALL WOOD POLES SO AS NOT TO INTERFERE WITH TRAFFIC OR FUTURE CONSTRUCTION STAGES.
30. CROSSARMS SHALL BE REMOVED AFTER ALL CONTACTS ARE REMOVED (INCIDENTAL TO REMOVAL OF OVERHEAD LINES).
31. WHERE REMOVAL OF LUMINAIRES IS CALLED FOR ON PLANS THE ASSOCIATED O.H. SERIES COIL SHALL BE REMOVED BY THE CONTRACTOR (REMOVE O.H. COIL IS INCIDENTAL TO REMOVE LUMINAIRE).
32. WHERE A P.L.D. WOOD POLE WITH OTHER UTILITY CONTACTS IS TO BE REMOVED THE P.L.D. INSPECTOR WILL INDICATE IF THE POLE IS IN FACT TO BE REMOVED.
33. ALL SALVAGED WOOD POLES SHALL BE POLES PREVIOUSLY INSTALLED NEW ON THIS CONTRACT.
34. ALL TRAFFIC STREET SIGNS SUCH AS "NO PARKING", "NO STANDING" ETC. SHALL BE TRANSFERRED FROM OLD ST. LTG. STD. TO NEW ST. LTG. STD. AT SAME LOCATION OR ON NEW STD. IN CLOSE PROXIMITY BY DEPT. OF TRANSPORTATION.
35. PROPOSED T.S. SHALL BE PUT INTO OPERATION AT TIME OF REMOVAL OF EXISTING T.S. FACILITIES. CONTRACTOR SHALL NOTIFY THE P.L.D. INSPECTOR IF HE IS UNABLE TO MAINTAIN T.S. IN OPERABLE CONDITION AT ALL TIMES.
36. ALL TRAFFIC SIGNALS SHALL BE MOUNTED WITH NEW STANDARD TRAFFIC SIGNAL BRACKET & FITTINGS.
37. ALL TRAFFIC SIGNAL ITEMS AS CALLED FOR ON PLANS SHALL INCLUDE AS INCIDENTAL TO THE TRAFFIC SIGNAL ALL CABLES FROM THE CONTROLLER TO THE TRAFFIC SIGNALS & FOUNDATIONS AS INDICATED.
38. CONTRACTOR SHALL DELIVER WHERE REQUIRED TO THE PUBLIC LIGHTING DEPARTMENT THE T.S. CONTROLLER FOR TIMING. CONTRACTOR SHALL PICK-UP CONTROLLER FROM THE PUBLIC LIGHTING DEPARTMENT WHEN READY FOR INSTALLATION.
39. ALL SALVAGED TRAFFIC SIGNALS SHALL BE TRAFFIC SIGNALS PREVIOUSLY INSTALLED NEW ON THIS CONTRACT (EXCEPT AS OTHERWISE INDICATED).
40. FOR TRAFFIC SIGNAL SPAN WIRES USE 1/2" SIEMANS-MARTIN GRADE AS SPECIFICATION.
41. ALL TRAFFIC SIGNAL LAMPS MAY BE PURCHASED FROM THE PUBLIC LIGHTING DEPARTMENT.
42. SEAL-END OF CABLE WHERE COILING UP OF CABLE IS CALLED FOR (CONTRACTOR SHALL RECEIVE PAYMENT FOR COILED-UP CABLES).
43. D.S.R. STREETCAR RAILS AND FOUNDATIONS (TRACKS) ARE SHOWN ON THE PLANS IN ACCORDANCE WITH THE BEST AVAILABLE INFORMATION. EXACT LOCATIONS WITHIN THE STREETS & INTERSECTIONS ARE NOT KNOWN. SOME RAILS MAY HAVE BEEN REMOVED.
44. SIDEWALK RAMPS OF THE TYPE & LOCATION AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER SHALL BE CONSTRUCTED.
45. "CONDUIT REPAIR - UNDER PAVEMENT" AND "CONDUIT REPAIR UNDER SIDEWALK OR DIRT" SHALL INCLUDE LOCATING EXISTING P.L.D. CONDUIT BREAKDOWN OR RUPTURE AT A POINT LOCATED IN THE EXISTING CONDUIT INSTALLATION WHETHER A SINGLE CONDUIT OR MULTIPLE OF TWO OR MORE. THE WORK SHALL INCLUDE EXCAVATION AT THE POINT OF BREAKDOWN, CHIPPING & BREAKING AWAY THE CONCRETE ENCASEMENT, INSTALLING A CONDUIT SLEEVE TO REPLACE THE CUTAWAY OR REMOVED SECTION OF DEFECTIVE CONDUIT, GROUTING THE CONCRETE ENCASEMENT TO ITS ORIGINAL THICKNESS THEN BACKFILLING THE EARTH AND REPAIRING THE SIDEWALK OR PAVEMENT. EXERCISE CARE NOT TO DAMAGE EXISTING ENERGIZED CABLES. NOTE: NONE OF THIS WORK SHALL BE UNDERTAKEN UNTIL FIRST CONTACTING THE PROJECT ENGINEER.
46. INSTALL 600V, 1-6 PR. #16 I.M. SHIELDED CABLE FOR CHRONOPLAN 1'-0" BELOW D.E. CO. SECONDARY (EXCEPT WHERE OTHERWISE NOTED).

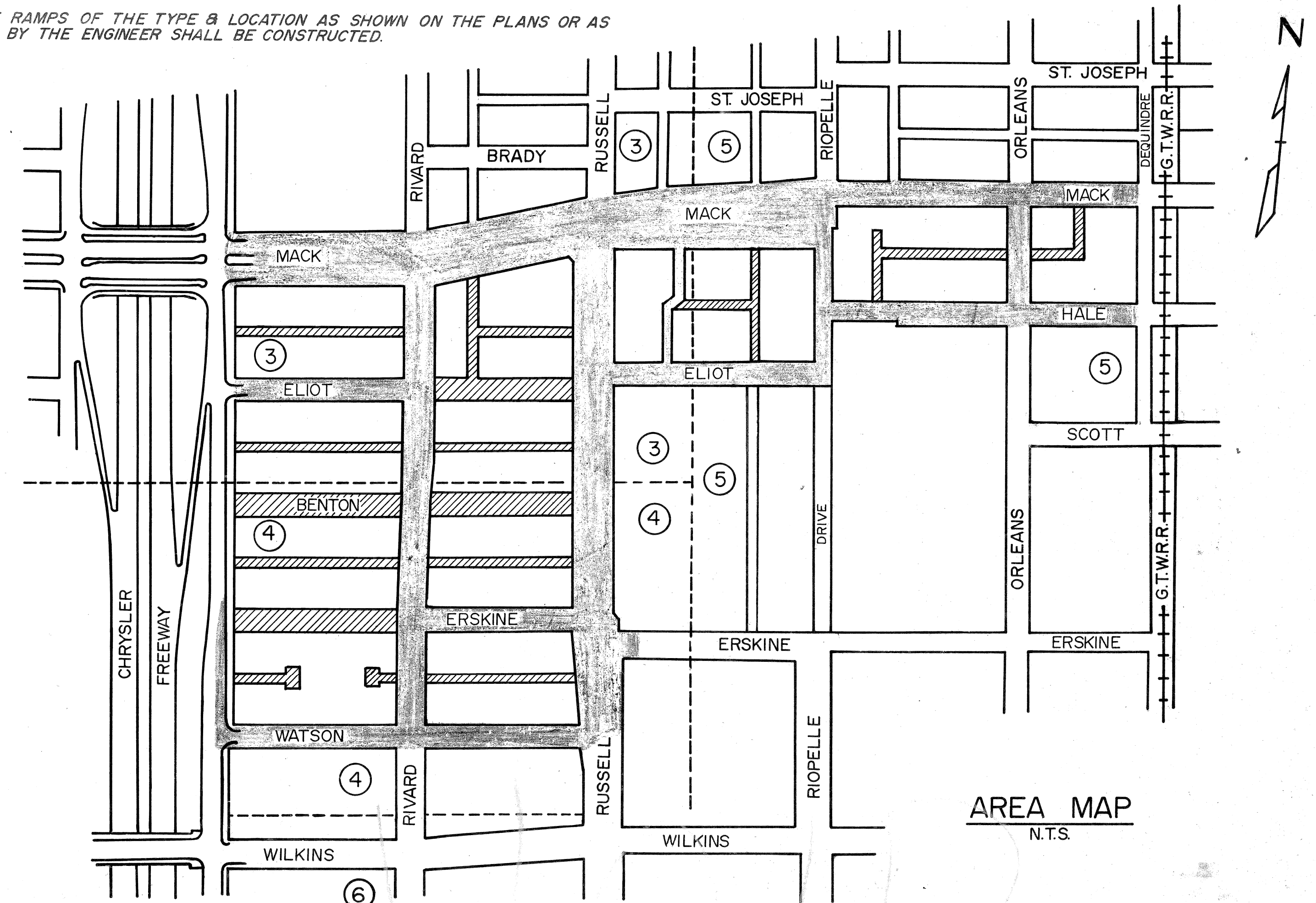


DATE: 10-16-81 REVISION: ERSKINE W. OF RIVARD BECOMES EASEMENT CHECKED BY: C.E.A.	WIDENING OF CHRYSLER E. SERV. DR., RIVARD, PAVING OF RUSSELL & MISCELLANEOUS CONSTRUCTION WHOLESALE DISTRIBUTION CENTER NO.2 MICH. R-165 GENERAL INFORMATION & AREA MAP	SHEET 32 OF 44 SHEETS CONTRACT NO. ASSIGNMENT NO. DATE	CITY OF DETROIT CITY ENGINEERING DIVISION EPMD BUREAU OF STREETS AND HIGHWAYS FOR COMMUNITY AND ECONOMIC DEVELOPMENT DEPARTMENT	DRAWN: CEA CHECKED: [Signature] APPROVED: [Signature] DATE: 3-10-80	PLAN PREPARED BY CONSULTING ENGINEERING ASSOCIATES INC. ENGINEERING CONSULTANTS 16580 WYOMING DETROIT, MICH. 48221 DRWG. NO. 2 OF 14 FILE NO. CEA 1015	PUBLIC LIGHTING COMMISSION CITY OF DETROIT	FILE NO. 51-0564 SHEET NO. 2 OF 14 DATE 3-10-80
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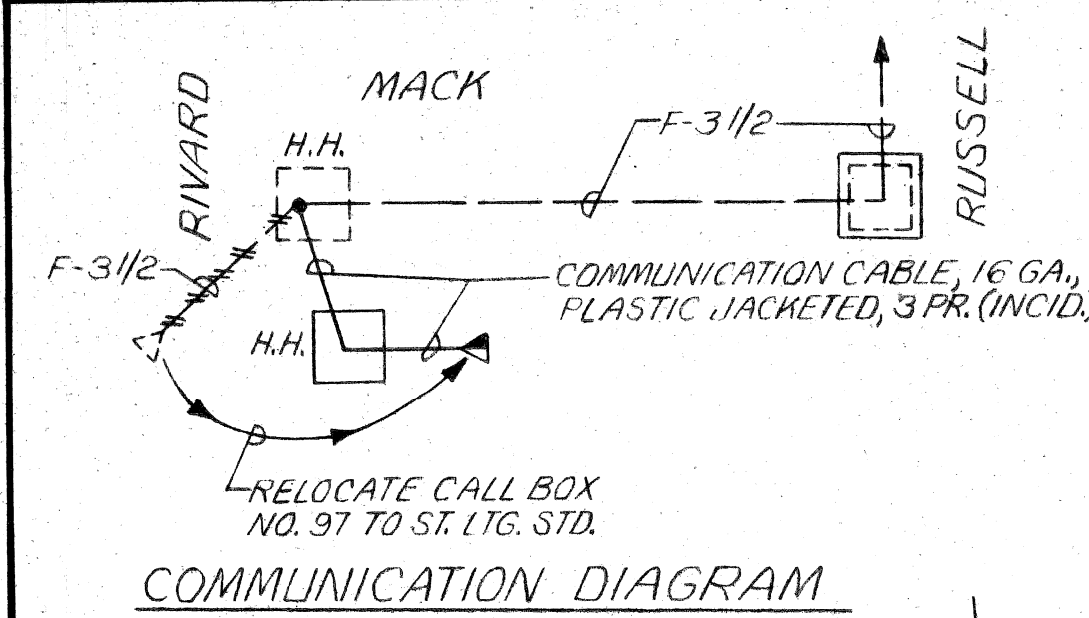
GENERAL INFORMATION SHEET

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1. CALL MISS DIG (647-7344) 48 HRS. PRIOR TO ANY EXCAVATION FOR THE LOCATIONS OF UNDERGROUND UTILITIES.
2. CONTRACTOR TO NOTIFY MICH. CONS. GAS CO. AT WO-5-9000 IF PROTECTIVE COATED GAS MAIN IS EXPOSED OR DAMAGED.
3. A MINIMUM CLEARANCE OF 3'-6" HORIZONTAL & 1' VERTICAL MUST BE MAINTAINED BETWEEN PROPOSED P.L.D. FACILITIES & EXISTING WATER FACILITIES.
4. CONTRACTOR SHALL NOTIFY SYSTEM OPERATING DIVISION OF THE P.L.D. 48 HRS. IN ADVANCE OF ANY WORK ON UNDERGROUND OR OVERHEAD TRANSMISSION, DISTRIBUTION, & ST. LTG. CIRCUITS. PHONE 961-1360.
5. ALL EXISTING STREET LIGHTING, TRAFFIC SIGNAL, PRIMARY, TRANSMISSION ETC. CIRCUITS SHALL ALWAYS BE MAINTAINED IN AN OPERATIONAL CONDITION (EXCEPT WHERE OTHERWISE NOTED).
6. EXISTING O.H. & T.S. FACILITIES ARE NOT NECESSARILY SHOWN ON PLANS.
7. ALL OVERHEAD WIRES & UNDERGROUND CABLES SHALL CONSIST OF COPPER CONDUCTORS AS PER THE SPECIFICATIONS.
8. WHERE INSTALLATION OF NEW MANHOLES OVER EXISTING CONDUITS (TO ACCOMMODATE NEW & EXIST. CONDUITS) IS CALLED FOR ON PLANS, CONTRACTOR SHALL CAREFULLY & SO AS NOT TO DAMAGE EXIST. CABLES, REMOVE THE EXIST. CONDUITS & ENCASUREMENT WITHIN MANHOLES. EXIST. CABLES SHALL BE EXTENDED & PROPERLY TRAINED, RACKED & SUPPORTED.
9. NEW CONDUITS BROKEN INTO EXISTING MANHOLES OR HANDHOLES SHALL NOT INTERFERE WITH RACKING AND/OR TRAINING OF CABLES. EXERCISE CAUTION INSTALLING NEW CABLES INTO EXIST. HOLES.
10. ALL CONDUITS NOT TERMINATING IN STRUCTURES SUCH AS MANHOLES, HANDHOLES OR FOUNDATIONS SHALL EXTEND 2FT. BEYOND PAVEMENT LIMIT (EXCEPT AS OTHERWISE INDICATED). ALL UNOCCUPIED CONDUITS SHALL BE PLUGGED.
11. WHERE ABANDONING OF U.G. CABLES IS CALLED FOR ON PLANS OR DIAGRAMS, CONTRACTOR SHALL CUT & REMOVE CABLES WITHIN MANHOLES & HANDHOLES.
12. UNDERGROUND CABLE QUANTITIES ARE ITEMIZED ON GENERAL PLANS. ALL CABLES SHALL BE TAGGED IN ALL MANHOLES & HANDHOLES. THIS INCLUDES EXIST. CABLES THAT ARE CONVERTED TO MULTIPLE, RECONNECTED TO OTHER CIRCUITS OR RENDERED DEAD.
13. ALL LUMINAIRES SHALL BE PROVIDED WITH 240V. INTERNAL BALLASTS (EXCEPT AS OTHERWISE NOTED).
14. THE CANDLEPOWER DISTRIBUTION FOR ALL MERCURY VAPOR ST. LTG. LUMINAIRES SHALL BE SEMI-CUTOFF, MEDIUM DISTRIBUTION OF TYPE AS INDICATED ON THE PLANS.
15. ALL NEW, SALVAGED & CONVERTED ST. LTG. STD'S. SHALL BE PAINTED.
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26. ALL TRANSFORMER POLES AND CABLE POLES SHALL BE FITTED UP WITH 120" ARMS (EXCEPT WHERE OTHERWISE NOTED).
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38. CONTRACTOR SHALL DELIVER WHERE REQUIRED TO THE PUBLIC LIGHTING DEPARTMENT THE T.S. CONTROLLER FOR TIMING. CONTRACTOR SHALL PICK-UP CONTROLLER FROM THE PUBLIC LIGHTING DEPARTMENT WHEN READY FOR INSTALLATION.
39. ALL SALVAGED TRAFFIC SIGNALS SHALL BE TRAFFIC SIGNALS PREVIOUSLY INSTALLED NEW ON THIS CONTRACT (EXCEPT AS OTHERWISE INDICATED).
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41. ALL TRAFFIC SIGNAL LAMPS MAY BE PURCHASED FROM THE PUBLIC LIGHTING DEPARTMENT.
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44. SIDEWALK RAMPS OF THE TYPE & LOCATION AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER SHALL BE CONSTRUCTED.
45. "CONDUIT REPAIR - UNDER PAVEMENT" AND "CONDUIT REPAIR UNDER SIDEWALK OR DIRT" SHALL INCLUDE LOCATING EXISTING P.L.D. CONDUIT BREAKDOWN OR RUPTURE AT A POINT LOCATED IN THE EXISTING CONDUIT INSTALLATION WHETHER A SINGLE CONDUIT OR MULTIPLE OF TWO OR MORE THE WORK SHALL INCLUDE EXCAVATION AT THE POINT OF BREAKDOWN, CHIPPING & BREAKING AWAY THE CONCRETE ENCASUREMENT, INSTALLING A CONDUIT SLEEVE TO REPLACE THE CUTAWAY OR REMOVED SECTION OF DEFECTIVE CONDUIT, GROUTING THE CONCRETE ENCASUREMENT TO ITS ORIGINAL THICKNESS THEN BACKFILLING THE EARTH AND REPAIRING THE SIDEWALK OR PAVEMENT. EXERCISE CARE NOT TO DAMAGE EXISTING ENERGIZED CABLES. NOTE: NONE OF THIS WORK SHALL BE UNDERTAKEN UNTIL FIRST CONTACTING THE PROJECT ENGINEER.
46. INSTALL 600V, 1-6 PR #16 I.M. SHIELDED CABLE FOR CHRONOPLAN 1'-0" BELOW D.E. CO. SECONDARY (EXCEPT WHERE OTHERWISE NOTED).



	WIDENING OF CHRYSLER E. SERV. DR, RIVARD, PAVING OF RUSSELL & MISCELLANEOUS CONSTRUCTION WHOLESALE DISTRIBUTION CENTER NO.2 MICH. R-165 GENERAL INFORMATION & AREA MAP	SHEET 32 OF 44 SHEETS CONTRACT NO. ASSIGNMENT NO. DATE	CITY OF DETROIT CITY ENGINEERING DIVISION EPMD BUREAU OF STREETS AND HIGHWAYS FOR COMMUNITY AND ECONOMIC DEVELOPMENT DEPARTMENT	DRAWN: CEA CHECKED: [Signature] APPROVED: [Signature] DATE: 3-10-80	PLAN PREPARED BY CONSULTING ENGINEERING ASSOCIATES INC. ENGINEERING CONSULTANTS 16550 WYOMING DETROIT, MICH. 48221 DRWS. NO. 2 OF 14 FILE NO. CEA 1015	PUBLIC LIGHTING COMMISSION CITY OF DETROIT	FILE NO. SHEET NO. DATE
							51-0564 2 OF 14 3-10-80



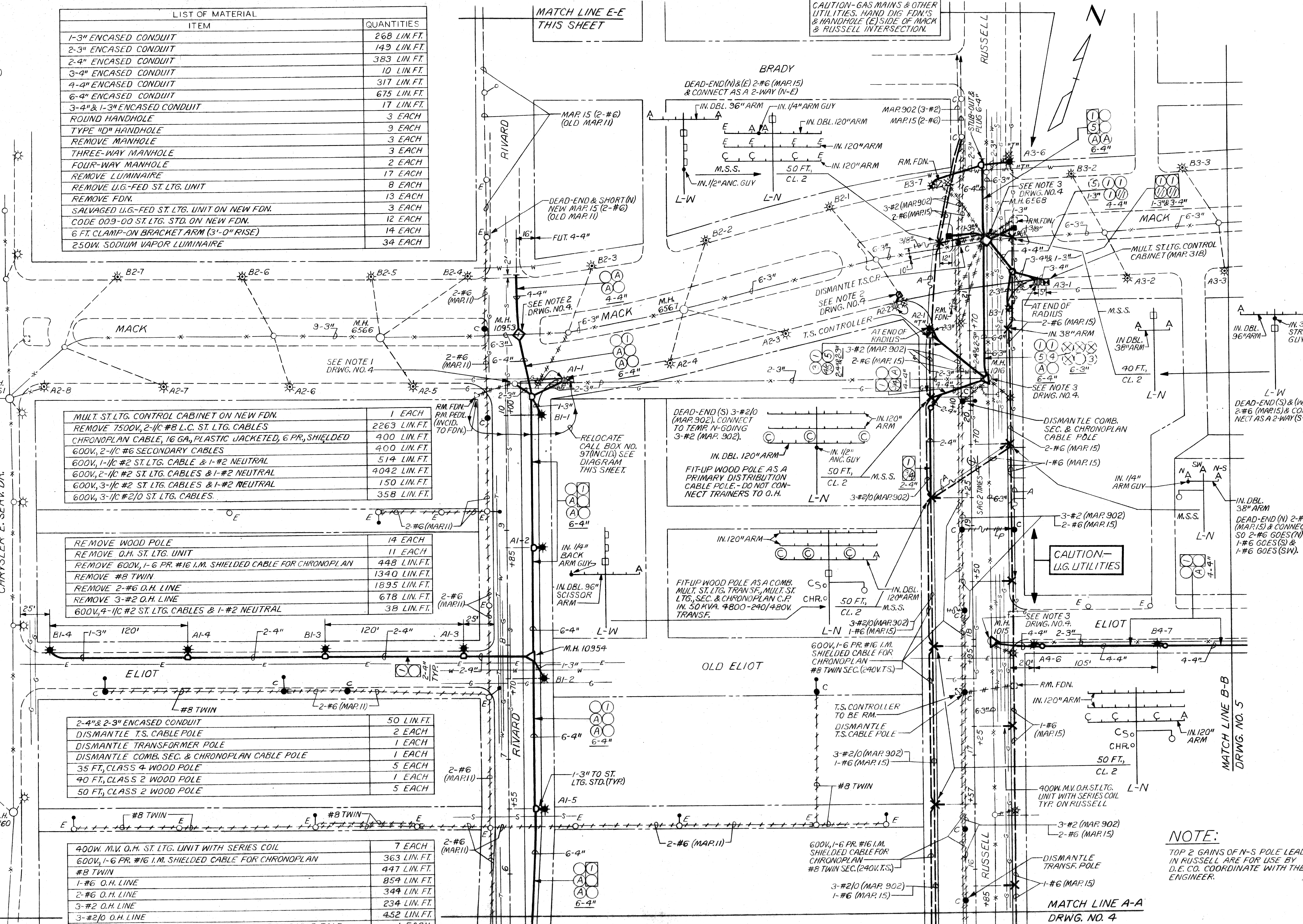
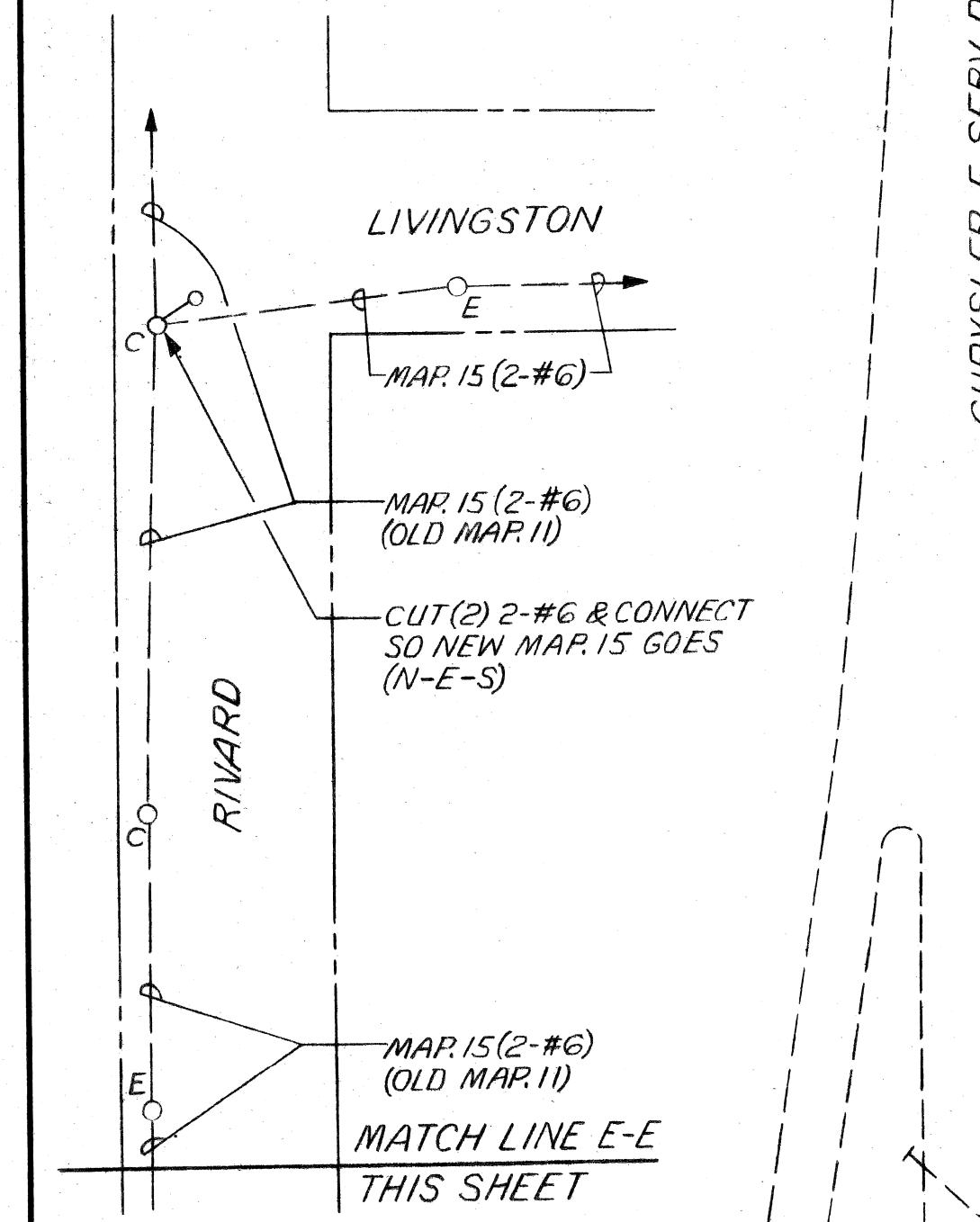
LIST OF MATERIAL	
ITEM	QUANTITIES
1-3" ENCASED CONDUIT	268 LIN. FT.
2-3" ENCASED CONDUIT	149 LIN. FT.
2-4" ENCASED CONDUIT	383 LIN. FT.
3-4" ENCASED CONDUIT	10 LIN. FT.
4-4" ENCASED CONDUIT	317 LIN. FT.
6-4" ENCASED CONDUIT	675 LIN. FT.
3-4" & 1-3" ENCASED CONDUIT	17 LIN. FT.
ROUND HANDHOLE	3 EACH
TYPE "D" HANDHOLE	9 EACH
REMOVE MANHOLE	3 EACH
THREE-WAY MANHOLE	3 EACH
FOUR-WAY MANHOLE	2 EACH
REMOVE LUMINAIRE	17 EACH
REMOVE U.G.-FED ST. LTG. UNIT	8 EACH
REMOVE FDN.	13 EACH
SALVAGED U.G.-FED ST. LTG. UNIT ON NEW FDN.	3 EACH
CODE 009-00 ST. LTG. STD. ON NEW FDN.	12 EACH
6 FT. CLAMP-ON BRACKET ARM (3'-0" RISE)	14 EACH
250W. SODIUM VAPOR LUMINAIRE	34 EACH

MULT. ST. LTG. CONTROL CABINET ON NEW FDN.	1 EACH
REMOVE 7500V, 2-1/2" #8 L.C. ST. LTG. CABLES	2263 LIN. FT.
CHRONOPLAN CABLE, 16 GA., PLASTIC JACKETED, 6 PR., SHIELDED	400 LIN. FT.
600V, 2-1/2" #6 SECONDARY CABLES	400 LIN. FT.
600V, 1-1/2" #2 ST. LTG. CABLE & 1-#2 NEUTRAL	514 LIN. FT.
600V, 2-1/2" #2 ST. LTG. CABLES & 1-#2 NEUTRAL	4042 LIN. FT.
600V, 3-1/2" #2 ST. LTG. CABLES & 1-#2 NEUTRAL	150 LIN. FT.
600V, 3-1/2" #2/0 ST. LTG. CABLES	358 LIN. FT.

REMOVE WOOD POLE	14 EACH
REMOVE O.H. ST. LTG. UNIT	11 EACH
REMOVE 600V, 1-6 PR. #16 I.M. SHIELDED CABLE FOR CHRONOPLAN	448 LIN. FT.
REMOVE #8 TWIN	1340 LIN. FT.
REMOVE 2-#6 O.H. LINE	1895 LIN. FT.
REMOVE 3-#2 O.H. LINE	678 LIN. FT.
600V, 4-1/2" #2 ST. LTG. CABLES & 1-#2 NEUTRAL	38 LIN. FT.

2-4" & 2-3" ENCASED CONDUIT	50 LIN. FT.
DISMANTLE T.S. CABLE POLE	2 EACH
DISMANTLE TRANSFORMER POLE	1 EACH
DISMANTLE COMB. SEC. & CHRONOPLAN CABLE POLE	1 EACH
35 FT. CLASS 4 WOOD POLE	5 EACH
40 FT. CLASS 2 WOOD POLE	1 EACH
50 FT. CLASS 2 WOOD POLE	5 EACH

400W. M.V. O.H. ST. LTG. UNIT WITH SERIES COIL	7 EACH
600V, 1-6 PR. #16 I.M. SHIELDED CABLE FOR CHRONOPLAN	363 LIN. FT.
#8 TWIN	447 LIN. FT.
1-#6 O.H. LINE	854 LIN. FT.
2-#6 O.H. LINE	344 LIN. FT.
3-#2 O.H. LINE	234 LIN. FT.
3-#2/0 O.H. LINE	452 LIN. FT.
FIT-UP WOOD POLE AS A PRIMARY DISTRIBUTION CABLE POLE	1 EACH
FIT-UP WOOD POLE AS A COMB. MULT. ST. LTG. TRANSF., MULT. ST. LTG., SEC. & CHRONOPLAN C.P.	1 EACH
COMB. T.S. & ST. LTG. STD. ON NEW FDN.	2 EACH



PLAN
SCALE: 1"=40'

NOTE:
TOP 2 GAINS OF N-S POLE LEAD IN RUSSELL ARE FOR USE BY D.E.CO. COORDINATE WITH THE ENGINEER.

DATE	DESCRIPTION	CHKD. BY

WIDENING OF CHRYSLER E. SERV. DR., RIVARD,
PAVING OF RUSSELL & MISCELLANEOUS CONSTRUCTION
WHOLESALE DISTRIBUTION CENTER NO.2 MICH. R-165
GENERAL PLAN

SHEET 33 OF 44 SHEETS
CONTRACT NO.
ASSIGNMENT NO.
DATE

CITY OF DETROIT
CITY ENGINEERING DIVISION EPMD
BUREAU OF STREETS AND HIGHWAYS
FOR
COMMUNITY AND ECONOMIC
DEVELOPMENT DEPARTMENT

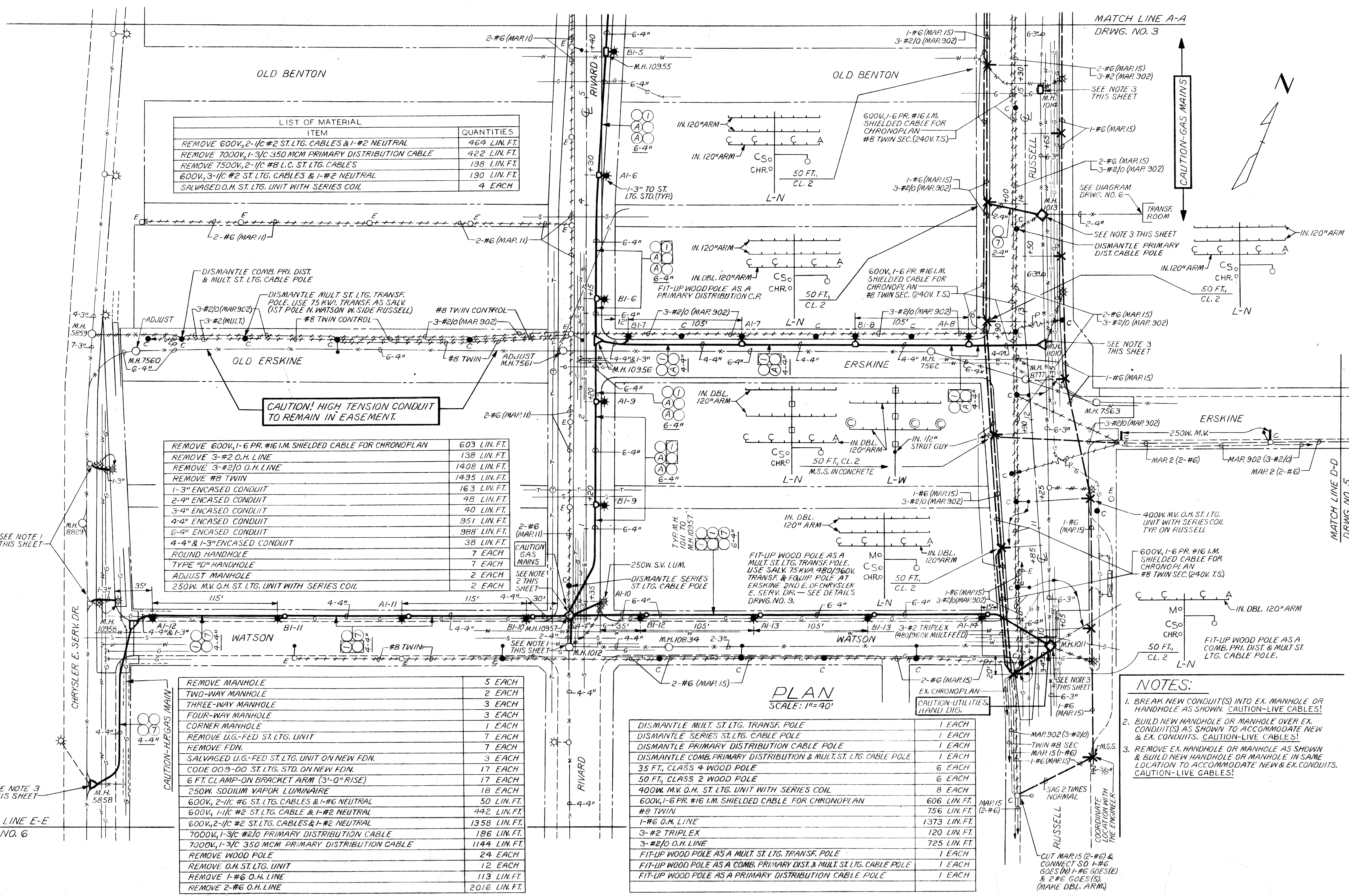
DRAWN CEA
CHECKED
APPROVED
DATE 3-10-80

PLAN PREPARED BY
CONSULTING ENGINEERING ASSOCIATES INC.
ENGINEERING CONSULTANTS
16580 WYOMING DETROIT, MICH. 48221
DRWG. NO. 3 OF 14
FILE NO. CEA 1015

DRAWN BY
CHECKED BY
APPROVED

PUBLIC LIGHTING
DEPARTMENT
CITY OF DETROIT

FILE NO. 51-0564
SHEET NO. 3 OF 14
DATE 3-10-80



LIST OF MATERIAL

ITEM	QUANTITIES
REMOVE 600V, 2-1/0 #2 ST. LG. CABLES & 1-#2 NEUTRAL	464 LIN. FT.
REMOVE 700V, 1-3/0 350 MCM PRIMARY DISTRIBUTION CABLE	422 LIN. FT.
REMOVE 7500V, 2-1/0 #8 L.C. ST. LG. CABLES	198 LIN. FT.
600V, 3-1/0 #2 ST. LG. CABLES & 1-#2 NEUTRAL	190 LIN. FT.
SALVAGED O.H. ST. LG. UNIT WITH SERIES COIL	4 EACH

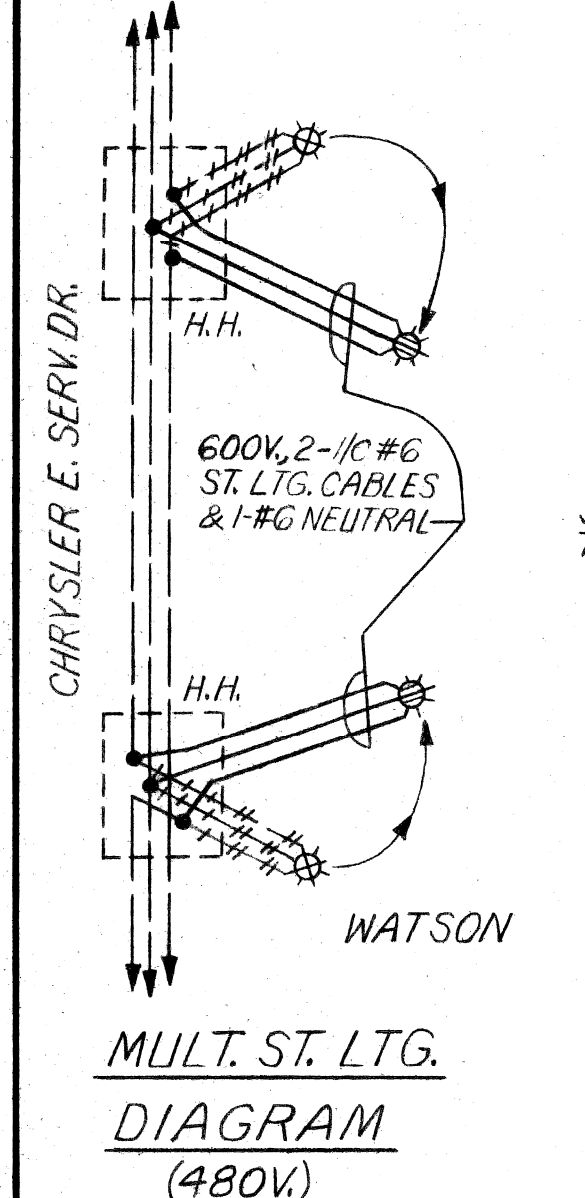
REMOVE 600V, 1-6 PR. #16 I.M. SHIELDED CABLE FOR CHRONOPLAN	603 LIN. FT.
REMOVE 3-#2 O.H. LINE	138 LIN. FT.
REMOVE 3-#2/0 O.H. LINE	1408 LIN. FT.
REMOVE #8 TWIN	1495 LIN. FT.
1-3" ENCASED CONDUIT	163 LIN. FT.
2-4" ENCASED CONDUIT	48 LIN. FT.
3-4" ENCASED CONDUIT	40 LIN. FT.
4-4" ENCASED CONDUIT	951 LIN. FT.
6-4" ENCASED CONDUIT	988 LIN. FT.
4-4" & 1-3" ENCASED CONDUIT	38 LIN. FT.
ROUND HANDHOLE	7 EACH
TYPE "D" HANDHOLE	7 EACH
ADJUST MANHOLE	2 EACH
250W. M.V. O.H. ST. LG. UNIT WITH SERIES COIL	2 EACH

REMOVE MANHOLE	5 EACH
TWO-WAY MANHOLE	2 EACH
THREE-WAY MANHOLE	3 EACH
FOUR-WAY MANHOLE	3 EACH
CORNER MANHOLE	1 EACH
REMOVE U.G.-FED ST. LG. UNIT	7 EACH
REMOVE FDN.	7 EACH
SALVAGED U.G.-FED ST. LG. UNIT ON NEW FDN.	3 EACH
CODE 009-00 ST. LG. STD. ON NEW FDN.	17 EACH
6 FT. CLAMP-ON BRACKET ARM (3'-0" RISE)	17 EACH
250W. SODIUM VAPOR LUMINAIRE	18 EACH
600V, 2-1/0 #6 ST. LG. CABLES & 1-#6 NEUTRAL	50 LIN. FT.
600V, 1-1/0 #2 ST. LG. CABLE & 1-#2 NEUTRAL	442 LIN. FT.
600V, 2-1/0 #2 ST. LG. CABLES & 1-#2 NEUTRAL	1358 LIN. FT.
700V, 1-3/0 #2/0 PRIMARY DISTRIBUTION CABLE	186 LIN. FT.
700V, 1-3/0 350 MCM PRIMARY DISTRIBUTION CABLE	1144 LIN. FT.
REMOVE WOOD POLE	24 EACH
REMOVE O.H. ST. LG. UNIT	12 EACH
REMOVE 1-#6 O.H. LINE	113 LIN. FT.
REMOVE 2-#6 O.H. LINE	2016 LIN. FT.

PLAN SCALE: 1"=40'

DISMANTLE MULT. ST. LG. TRANSF. POLE	1 EACH
DISMANTLE SERIES ST. LG. CABLE POLE	1 EACH
DISMANTLE PRIMARY DISTRIBUTION CABLE POLE	1 EACH
DISMANTLE COMB. PRIMARY DISTRIBUTION & MULT. ST. LG. CABLE POLE	1 EACH
35 FT. CLASS 4 WOOD POLE	6 EACH
50 FT. CLASS 2 WOOD POLE	6 EACH
400W. M.V. O.H. ST. LG. UNIT WITH SERIES COIL	8 EACH
600V, 1-6 PR. #16 I.M. SHIELDED CABLE FOR CHRONOPLAN	606 LIN. FT.
#8 TWIN	756 LIN. FT.
1-#6 O.H. LINE	1373 LIN. FT.
3-#2 TRIPLEX	120 LIN. FT.
3-#2/0 O.H. LINE	725 LIN. FT.
FIT-UP WOOD POLE AS A MULT. ST. LG. TRANSF. POLE	1 EACH
FIT-UP WOOD POLE AS A COMB. PRIMARY DIST. & MULT. ST. LG. CABLE POLE	1 EACH
FIT-UP WOOD POLE AS A PRIMARY DISTRIBUTION CABLE POLE	1 EACH

- NOTES:
- BREAK NEW CONDUIT(S) INTO EX. MANHOLE OR HANDHOLE AS SHOWN. CAUTION-LIVE CABLES!
 - BUILD NEW HANDHOLE OR MANHOLE OVER EX. CONDUIT(S) AS SHOWN TO ACCOMMODATE NEW & EX. CONDUITS. CAUTION-LIVE CABLES!
 - REMOVE EX. HANDHOLE OR MANHOLE AS SHOWN & BUILD NEW HANDHOLE OR MANHOLE IN SAME LOCATION TO ACCOMMODATE NEW & EX. CONDUITS. CAUTION-LIVE CABLES!



DATE	DESCRIPTION	CHKD. BY

WIDENING OF CHRYSLER E. SERV DR., RIVARD, PAVING OF RUSSELL & MISCELLANEOUS CONSTRUCTION WHOLESALE DISTRIBUTION CENTER NO.2 MICH. R-165
GENERAL PLAN

SHEET 34 OF 44 SHEETS

CONTRACT NO.	
ASSIGNMENT NO.	
DATE	

CITY OF DETROIT
CITY ENGINEERING DIVISION EPMD
BUREAU OF STREETS AND HIGHWAYS
FOR
COMMUNITY AND ECONOMIC
DEVELOPMENT DEPARTMENT

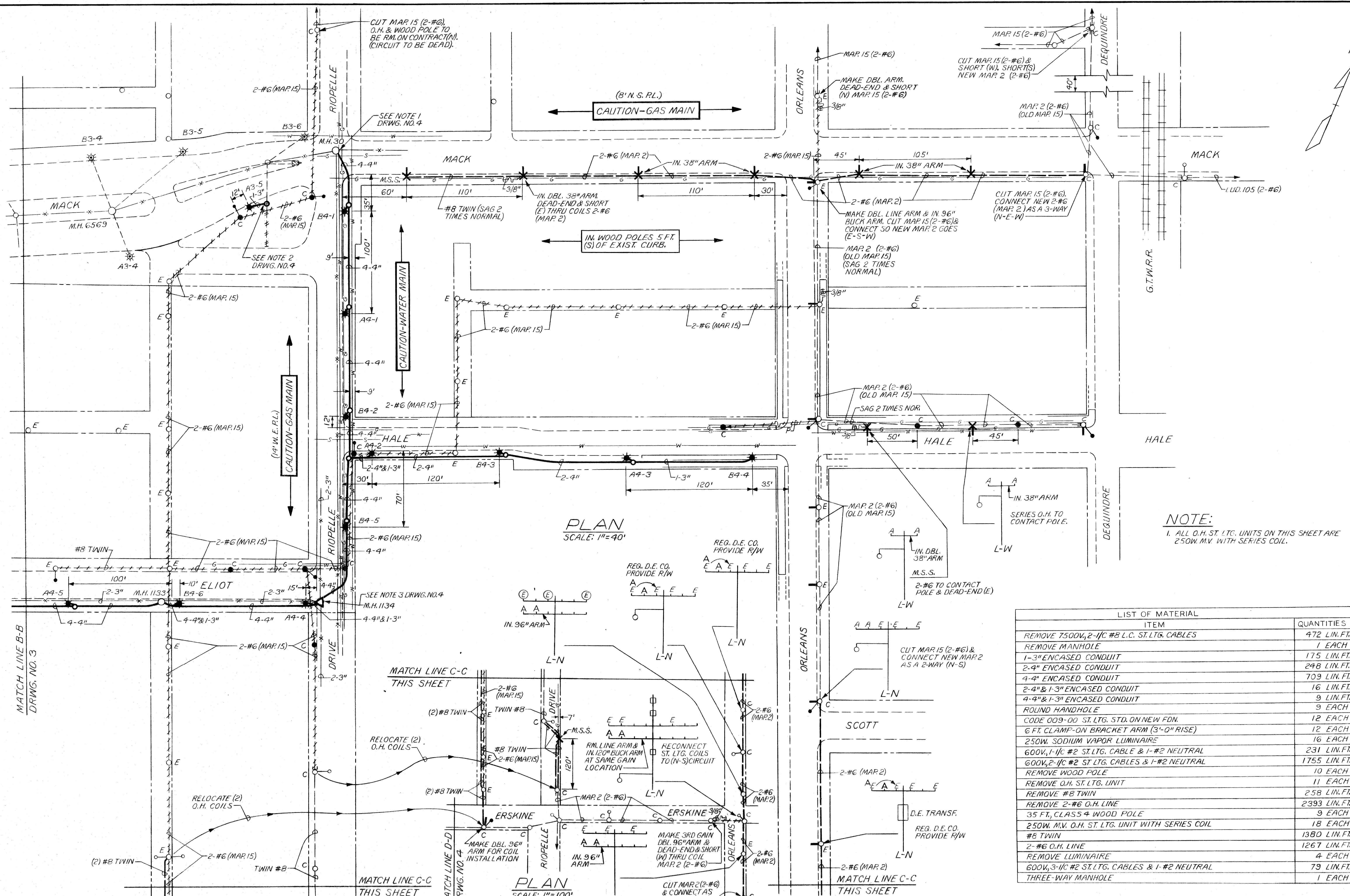
DRAWN	CEA
CHECKED	
APPROVED	
DATE	3-10-80

PLAN PREPARED BY
CONSULTING ENGINEERING ASSOCIATES INC.
ENGINEERING CONSULTANTS
16580 WYOMING DETROIT, MICH. 48221

DRAWN BY	
CHECKED BY	
APPROVED	

PUBLIC LIGHTING
DEPARTMENT
CITY OF DETROIT

FILE NO.	51-0564
SHEET NO.	4 OF 14
DATE	3-10-80



PLAN
SCALE: 1"=40'

PLAN
SCALE: 1"=100'

NOTE:
1. ALL O.H. ST. LTG. UNITS ON THIS SHEET ARE 250W. MV. WITH SERIES COIL.

ITEM	QUANTITIES
REMOVE 7500V, 2-1/2" #8 L.C. ST. LTG. CABLES	472 LIN. FT.
REMOVE MANHOLE	1 EACH
1-3" ENCASED CONDUIT	175 LIN. FT.
2-4" ENCASED CONDUIT	248 LIN. FT.
4-4" ENCASED CONDUIT	709 LIN. FT.
2-4" & 1-3" ENCASED CONDUIT	16 LIN. FT.
4-4" & 1-3" ENCASED CONDUIT	9 LIN. FT.
ROUND HANDHOLE	9 EACH
CODE 009-00 ST. LTG. STD. ON NEW FDN.	12 EACH
6 FT. CLAMP-ON BRACKET ARM (3'-0" RISE)	12 EACH
250W. SODIUM VAPOR LUMINAIRE	16 EACH
600V, 1-1/2" #2 ST. LTG. CABLE & 1-#2 NEUTRAL	231 LIN. FT.
600V, 2-1/2" #2 ST. LTG. CABLES & 1-#2 NEUTRAL	1755 LIN. FT.
REMOVE WOOD POLE	10 EACH
REMOVE O.H. ST. LTG. UNIT	11 EACH
REMOVE #8 TWIN	258 LIN. FT.
REMOVE 2-#6 O.H. LINE	2393 LIN. FT.
35 FT. CLASS 4 WOOD POLE	9 EACH
250W. MV. O.H. ST. LTG. UNIT WITH SERIES COIL	18 EACH
#8 TWIN	1380 LIN. FT.
2-#6 O.H. LINE	1267 LIN. FT.
REMOVE LUMINAIRE	4 EACH
600V, 3-1/2" #2 ST. LTG. CABLES & 1-#2 NEUTRAL	79 LIN. FT.
THREE-WAY MANHOLE	1 EACH

DATE	DESCRIPTION	CHKD. BY

WIDENING OF CHRYSLER E. SERV. DR., RIVARD,
PAVING OF RUSSELL & MISCELLANEOUS CONSTRUCTION
WHOLESALE DISTRIBUTION CENTER NO. 2 MICH. R-165
GENERAL PLAN

SHEET 35 OF 44 SHEETS
CONTRACT NO.
ASSIGNMENT NO.
DATE

CITY OF DETROIT
CITY ENGINEERING DIVISION EPMO
BUREAU OF STREETS AND HIGHWAYS
FOR
COMMUNITY AND ECONOMIC
DEVELOPMENT DEPARTMENT

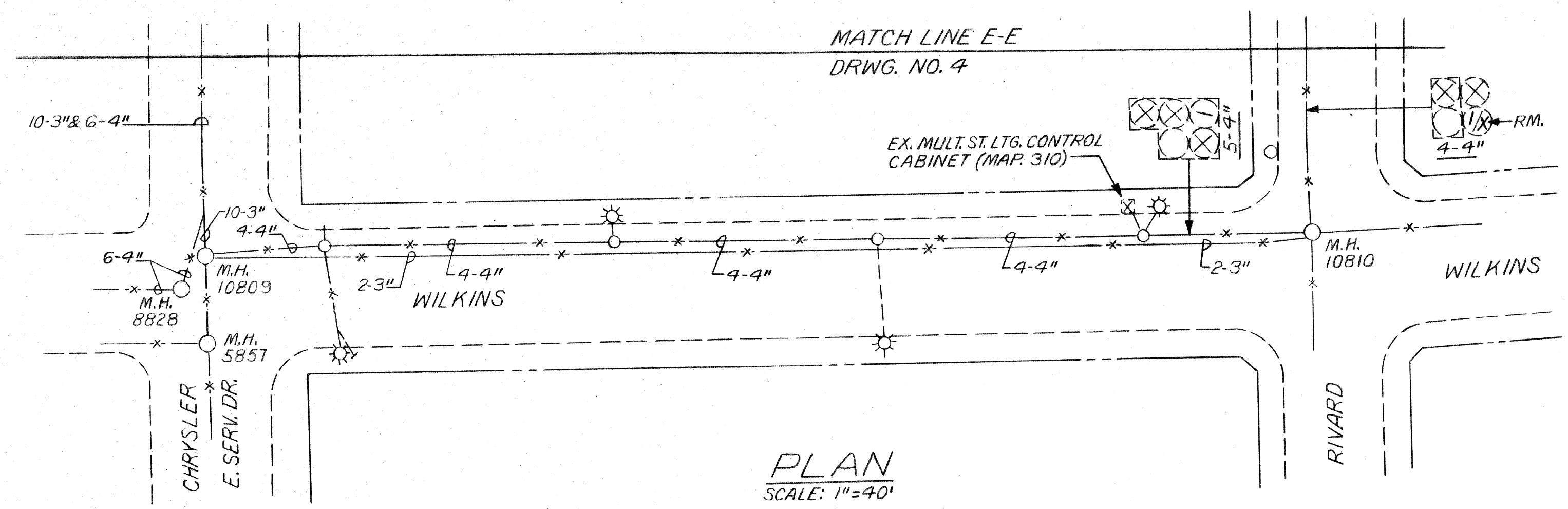
DRAWN	CEA
CHECKED	
APPROVED	
DATE	3-10-80

PLAN PREPARED BY
CONSULTING ENGINEERING ASSOCIATES INC.
ENGINEERING CONSULTANTS
16580 WYOMING DETROIT, MICH. 48221

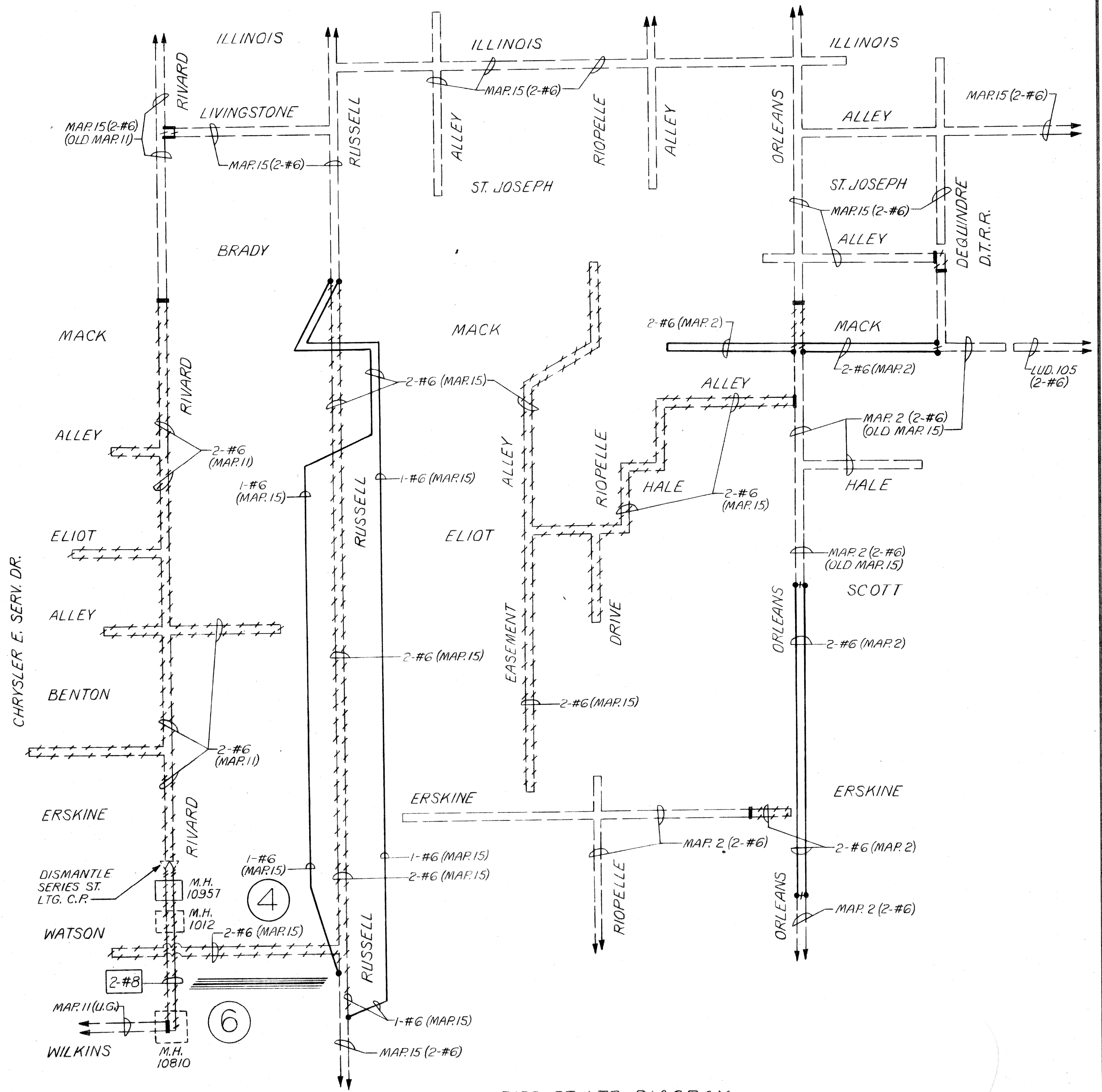
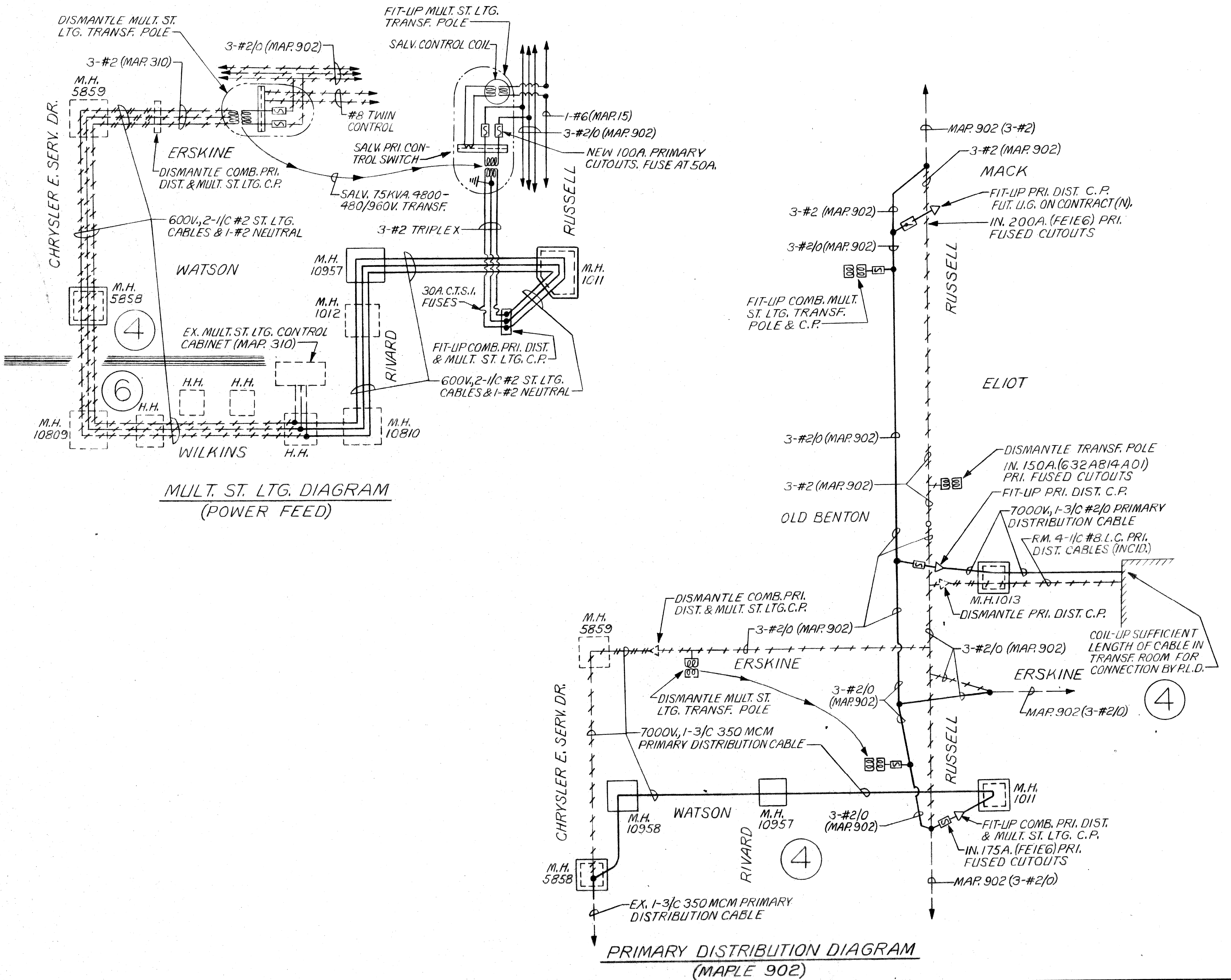
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APPROVED	

PUBLIC LIGHTING
DEPARTMENT
CITY OF DETROIT

FILE NO.	51-0564
SHEET NO.	5 OF 14
DATE	3-10-80



LIST OF MATERIAL	
ITEM	QUANTITIES
REMOVE 600V, 2-1/C #2 ST. LTG. CABLES & 1-#2 NEUTRAL	462 LIN. FT.
REMOVE 7500V, 2-1/C #8 L.C. ST. LTG. CABLES	75 LIN. FT.
600V, 2-1/C #2 ST. LTG. CABLES & 1-#2 NEUTRAL	144 LIN. FT.



DATE	DESCRIPTION	CHKD. BY

WIDENING OF CHRYSLER E. SERV. DR., RIVARD, PAVING OF RUSSELL & MISCELLANEOUS CONSTRUCTION WHOLESALE DISTRIBUTION CENTER NO.2 MICH. R-165 GENERAL PLAN & WIRING DIAGRAMS

SHEET 36 OF 44 SHEETS
 CONTRACT NO. _____
 ASSIGNMENT NO. _____
 DATE _____

CITY OF DETROIT
 CITY ENGINEERING DIVISION EPMD
 BUREAU OF STREETS AND HIGHWAYS
 FOR
 COMMUNITY AND ECONOMIC DEVELOPMENT DEPARTMENT

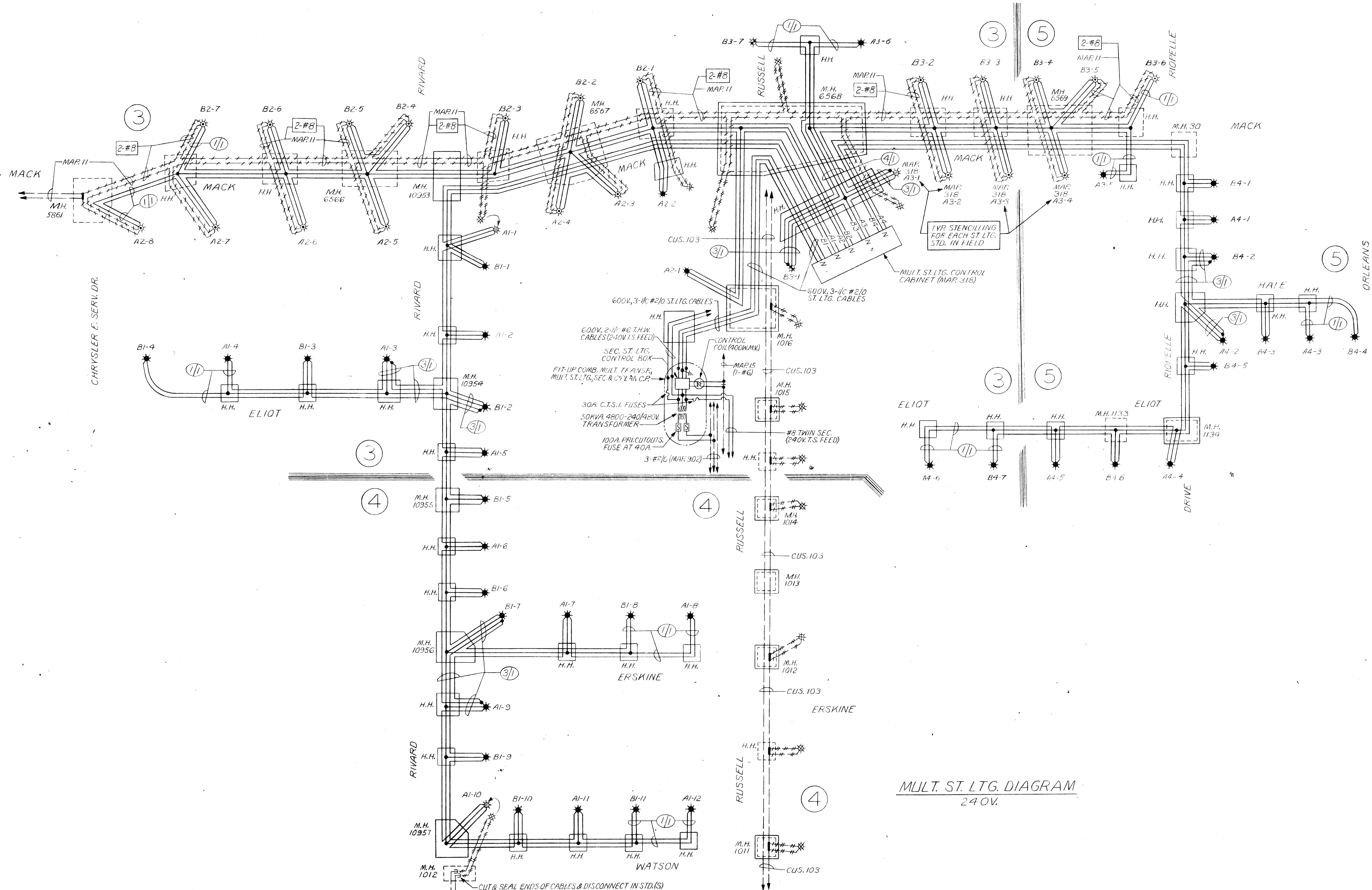
DRAWN CEA
 CHECKED [initials]
 APPROVED [initials]
 DATE 3-10-80

PLAN PREPARED BY
 CONSULTING ENGINEERING ASSOCIATES INC.
 ENGINEERING CONSULTANTS
 16580 WYOMING DETROIT, MICH., 48221
 DRWG. NO. 6 OF 14
 FILE NO. CEA 1015

DRAWN BY
 CHECKED BY
 APPROVED BY

PUBLIC LIGHTING COMMISSION
 CITY OF DETROIT

FILE NO. 51-0564
 SHEET NO. 6 OF 14
 DATE 3-10-80



MULT. ST. LTG. DIAGRAM
240V.

DATE	DESCRIPTION	CHKD. BY
10-16-81	DIAGRAM ADJUSTED FOR DELETION OF 116 UNITS IN WATSON W. OF RIVARD.	C.E.A.

WIDENING OF CHRYSLER E. SERV. DR., RIVARD,
PAVING OF RUSSELL & MISCELLANEOUS CONSTRUCTION
WHOLESALE DISTRIBUTION CENTER NO.2 MICH. R-165
WIRING DIAGRAMS

SHEET 37 OF 44 SHEETS
CONTRACT NO.
ASSIGNMENT NO.
DATE

CITY OF DETROIT
CITY ENGINEERING DIVISION EPMD
BUREAU OF STREETS AND HIGHWAYS
FOR
COMMUNITY AND ECONOMIC
DEVELOPMENT DEPARTMENT

DRAWN CEA
CHECKED ELD
APPROVED [Signature]
DATE 3-10-80

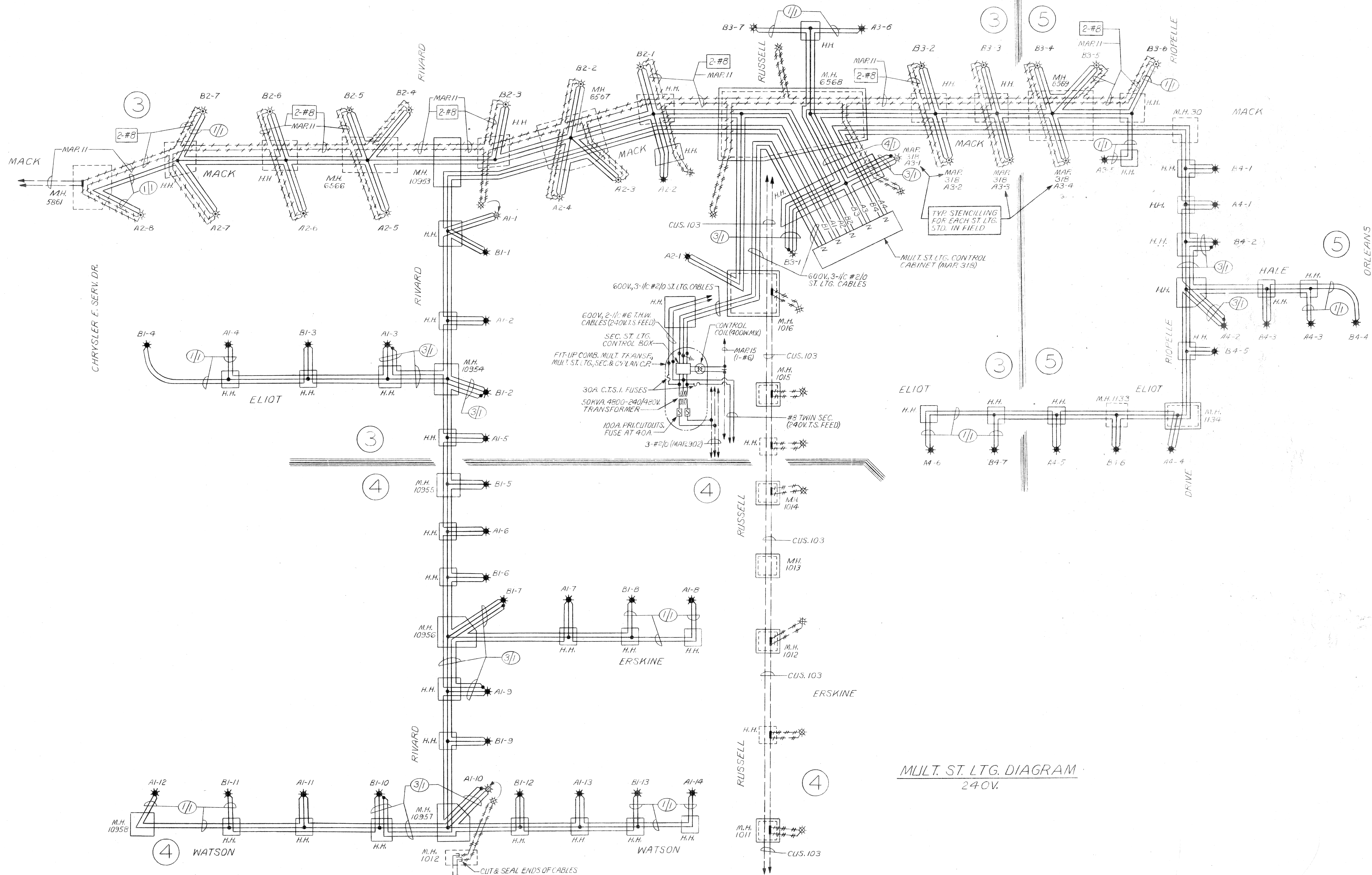
PLAN PREPARED BY
CONSULTING ENGINEERING ASSOCIATES INC.
ENGINEERING CONSULTANTS
16580 WYOMING DETROIT, MICH. 48221

DRWG. NO. 7 OF 14
FILE NO. CEA 1015

DRAWN BY
CHECKED BY
APPROVED

PUBLIC LIGHTING
DEPARTMENT
CITY OF DETROIT

FILE NO. 51-0564
SHEET NO. 7 OF 14
DATE 3-10-80



MULT. ST. LTG. DIAGRAM
240V.

DATE	DESCRIPTION	CHKD. BY

WIDENING OF CHRYSLER E. SERV. DR., RIVARD,
PAVING OF RUSSELL & MISCELLANEOUS CONSTRUCTION
WHOLESALE DISTRIBUTION CENTER NO.2 MICH. R-165
WIRING DIAGRAMS

SHEET 37 OF 44 SHEETS
CONTRACT NO.
ASSIGNMENT NO.
DATE

CITY OF DETROIT
CITY ENGINEERING DIVISION EPMD
BUREAU OF STREETS AND HIGHWAYS
FOR
COMMUNITY AND ECONOMIC
DEVELOPMENT DEPARTMENT

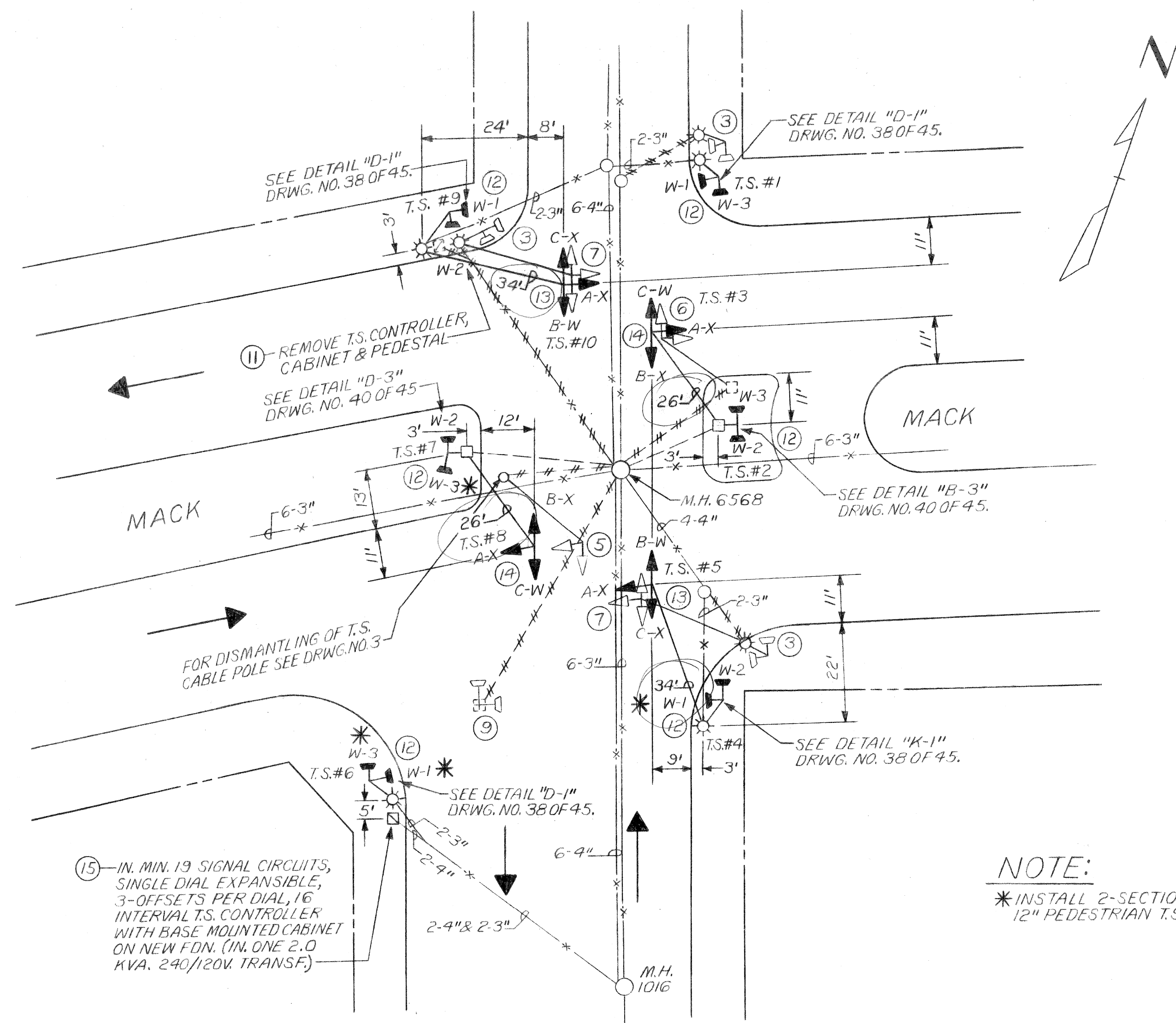
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APPROVED [Signature]
DATE 3-10-80

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ENGINEERING CONSULTANTS
16580 WYOMING DETROIT, MICH. 48221

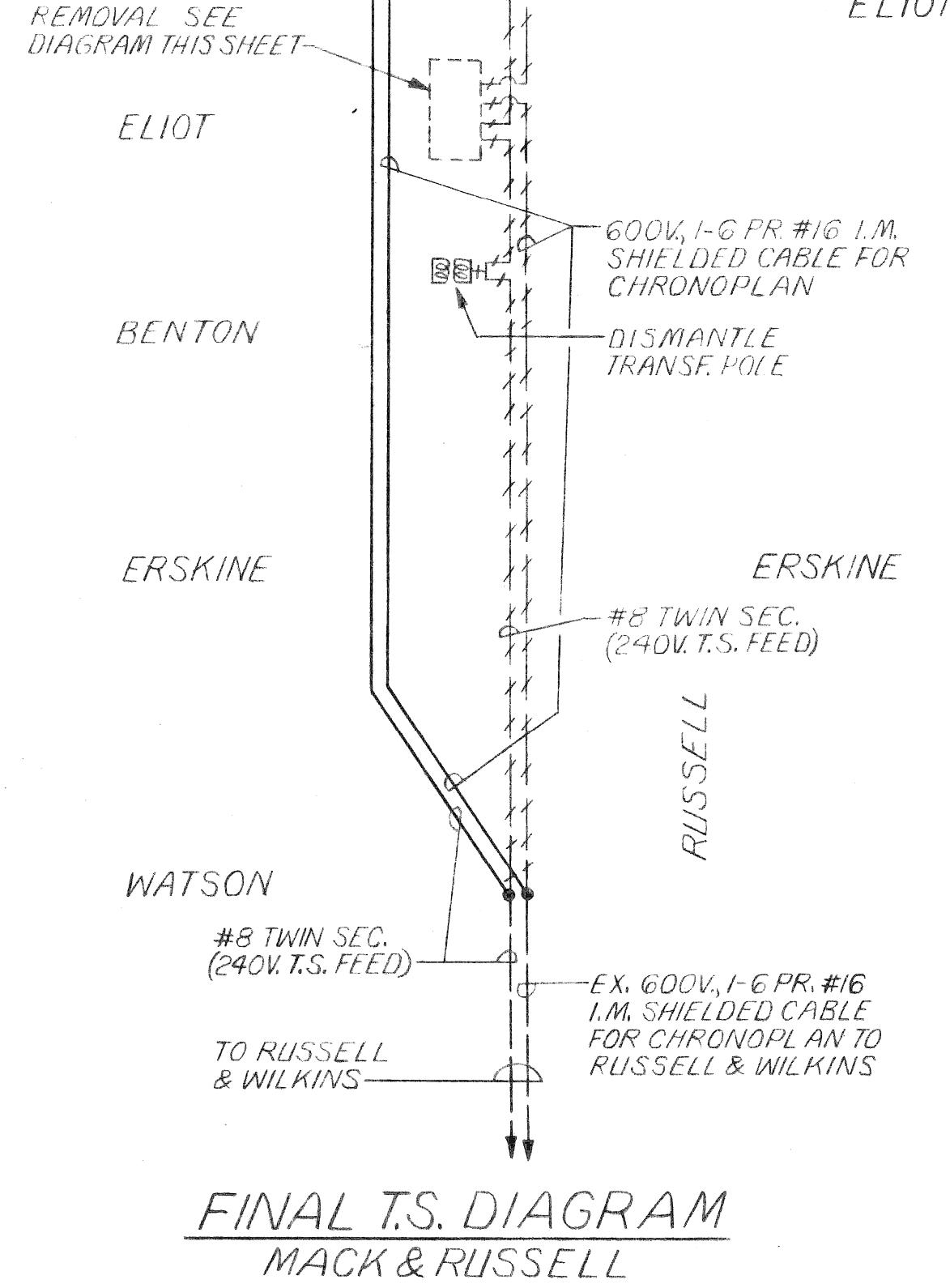
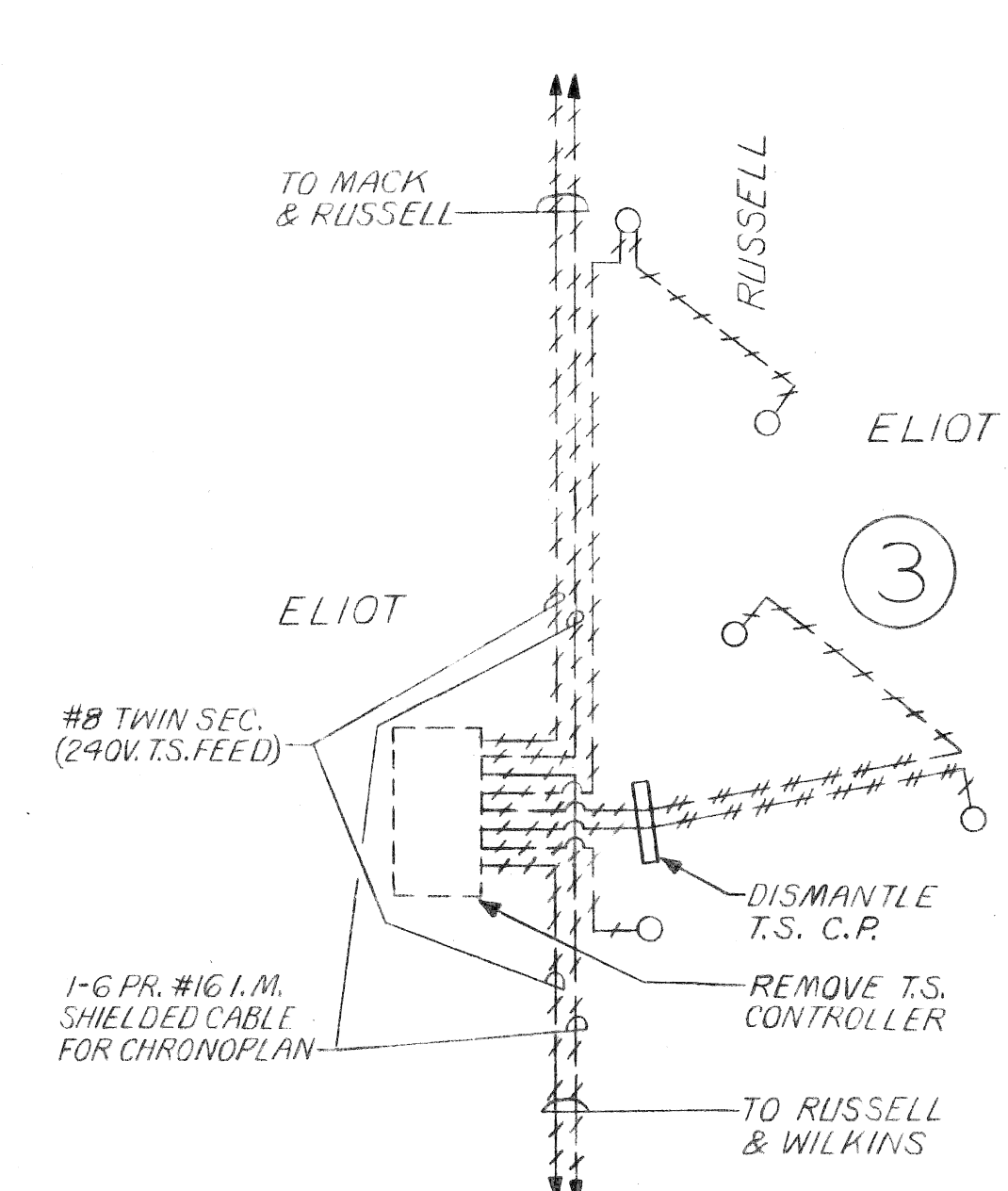
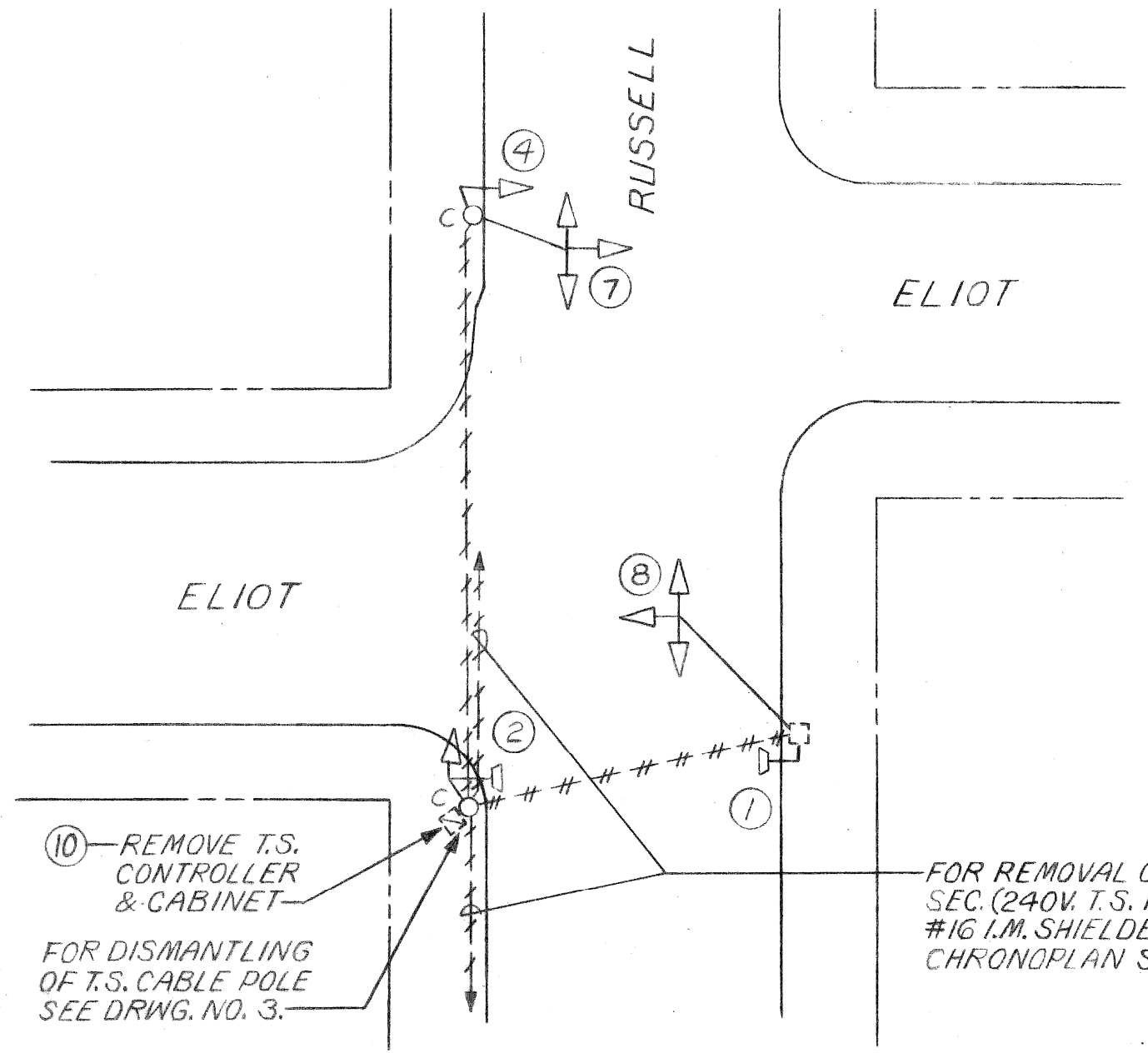
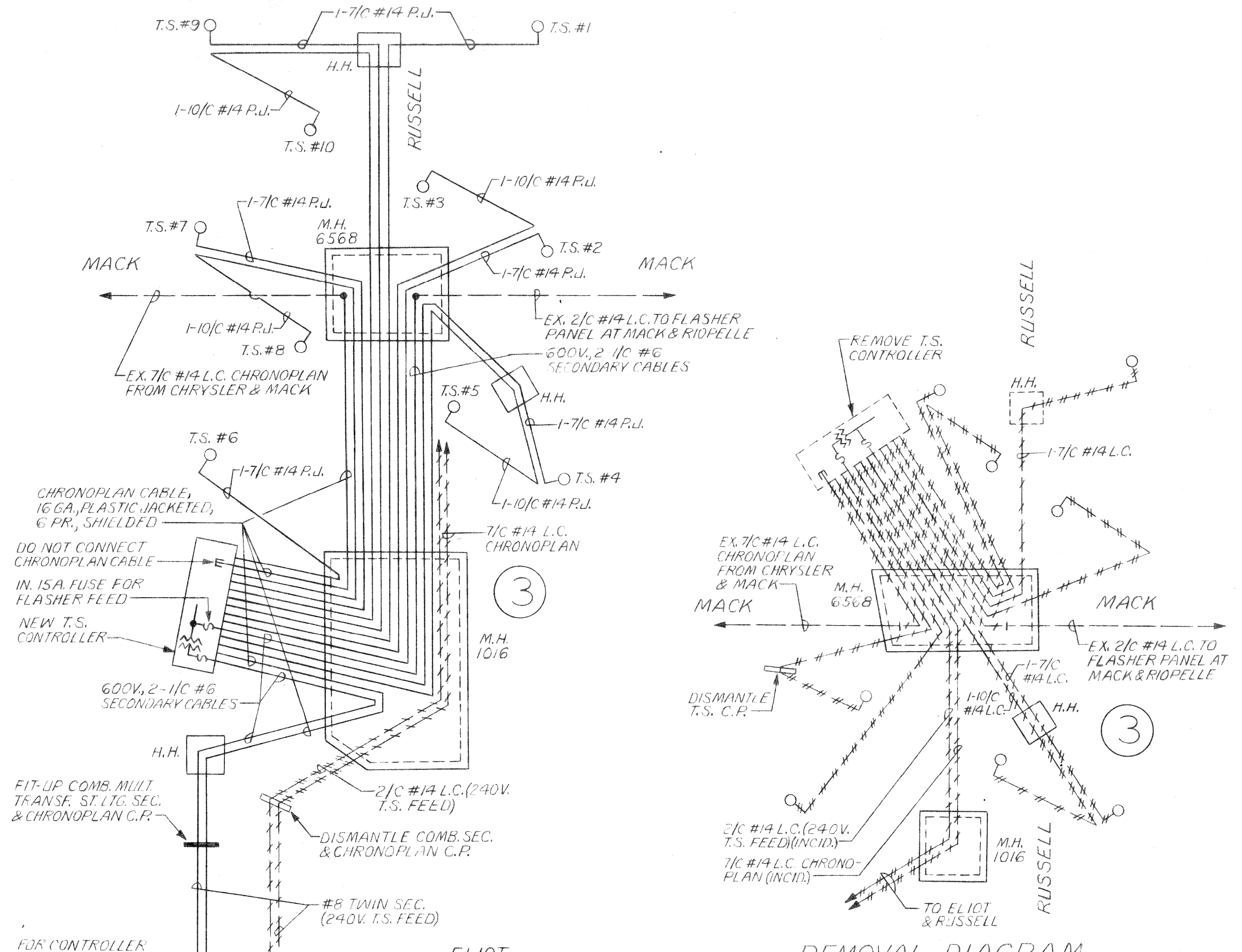
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DEPARTMENT
CITY OF DETROIT

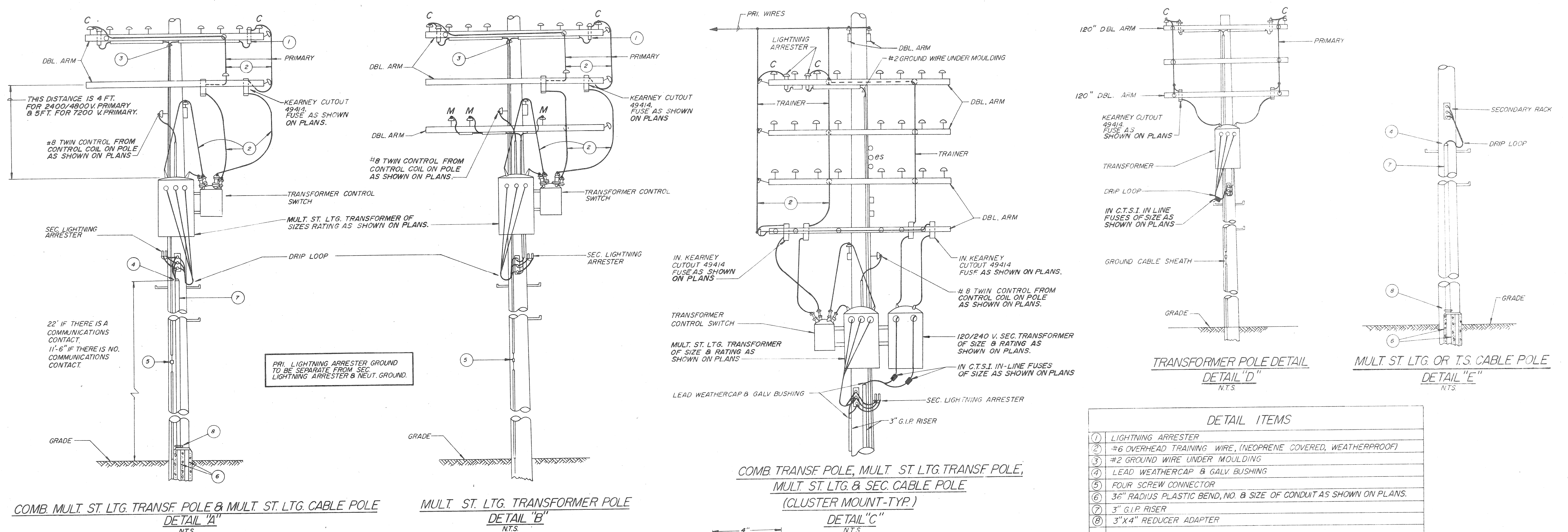
FILE NO. 51-0564
SHEET NO. 7 OF 14
DATE 3-10-80



NOTE:
 *INSTALL 2-SECTION, 12" PEDESTRIAN T.S.



LIST OF MATERIAL		
NO.	ITEM	QUANTITIES
1	REMOVE 1-WAY PEDESTRIAN BRACKET ARM T.S.	1 EACH
2	REMOVE 1-WAY PEDESTRIAN BRACKET ARM T.S. & 1-WAY T.S.	1 EACH
3	REMOVE 2-WAY PEDESTRIAN BRACKET ARM T.S.	3 EACH
4	REMOVE 1-WAY BRACKET ARM T.S.	1 EACH
5	REMOVE 2-WAY MAST ARM T.S. & MAST ARM	1 EACH
6	REMOVE 2-WAY MAST ARM T.S., MAST ARM & STD.	1 EACH
7	REMOVE 3-WAY MAST ARM T.S. & MAST ARM	3 EACH
8	REMOVE 3-WAY MAST ARM T.S., MAST ARM & STD.	1 EACH
9	REMOVE 2-WAY PEDESTRIAN T.S. & PEDESTAL	1 EACH
10	REMOVE T.S. CONTROLLER & CABINET	1 EACH
11	REMOVE T.S. CONTROLLER, CABINET & PEDESTAL	1 EACH
12	2-WAY PEDESTRIAN BRACKET ARM T.S.	6 EACH
13	3-WAY MAST ARM T.S. & MAST ARM	2 EACH
14	3-WAY MAST ARM T.S., MAST ARM & STD. ON NEW FDN.	2 EACH
15	T.S. CONTROLLER WITH BASE MOUNTED CABINET ON NEW FDN.	1 EACH



DETAIL ITEMS	
①	LIGHTNING ARRESTER
②	#6 OVERHEAD TRAINING WIRE, (NEOPRENE COVERED, WEATHERPROOF)
③	#2 GROUND WIRE UNDER MOULDING
④	LEAD WEATHERCAP & GALV BUSHING
⑤	FOUR SCREW CONNECTOR
⑥	3/8" RADIUS PLASTIC BEND, NO. 8 SIZE OF CONDUIT AS SHOWN ON PLANS.
⑦	3" G.I.P. RISER
⑧	3"x4" REDUCER ADAPTER

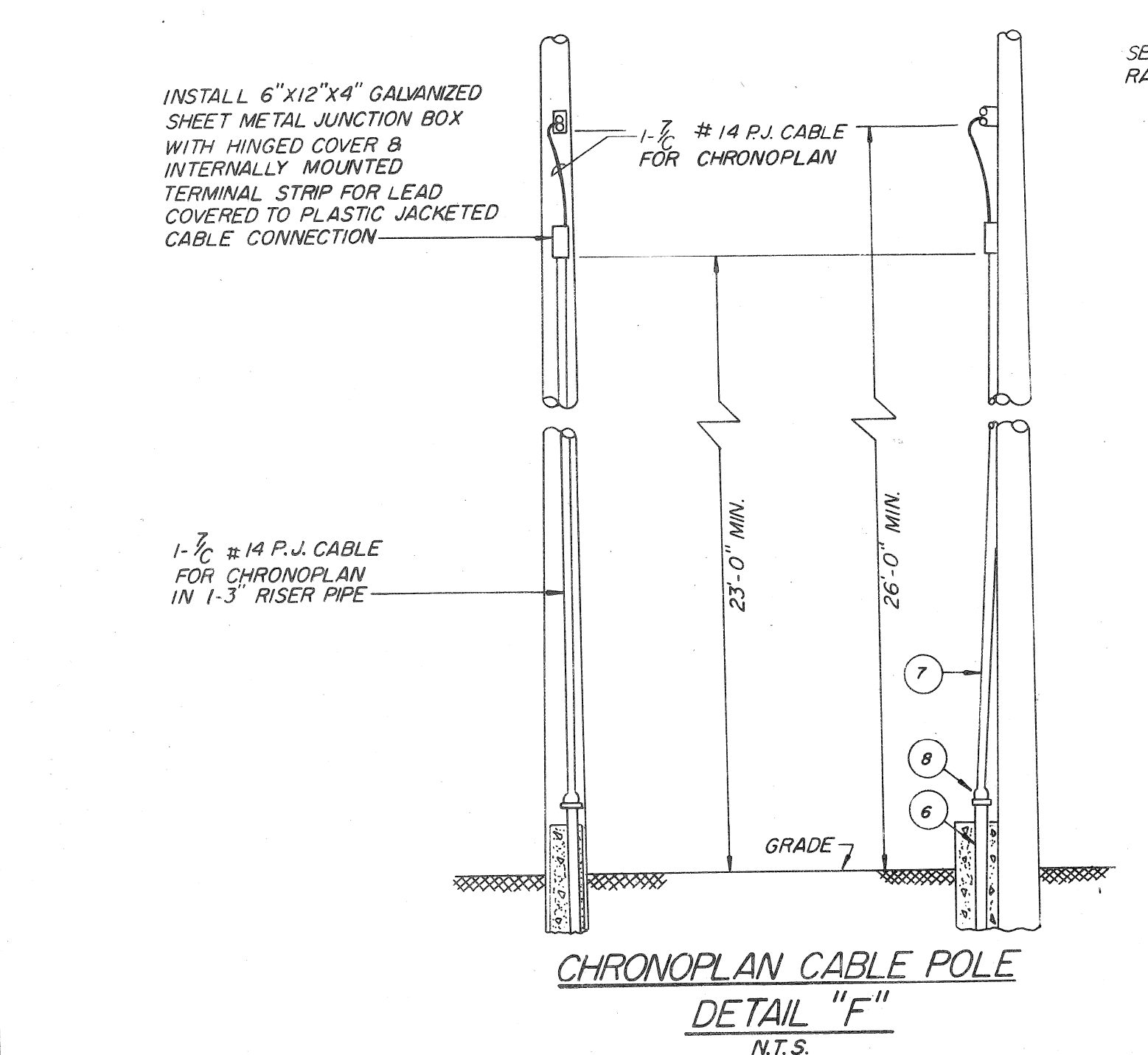
COMB. MULT. ST. LTG. TRANSF. POLE & MULT. ST. LTG. CABLE POLE
DETAIL "A"
N.T.S.

MULT. ST. LTG. TRANSFORMER POLE
DETAIL "B"
N.T.S.

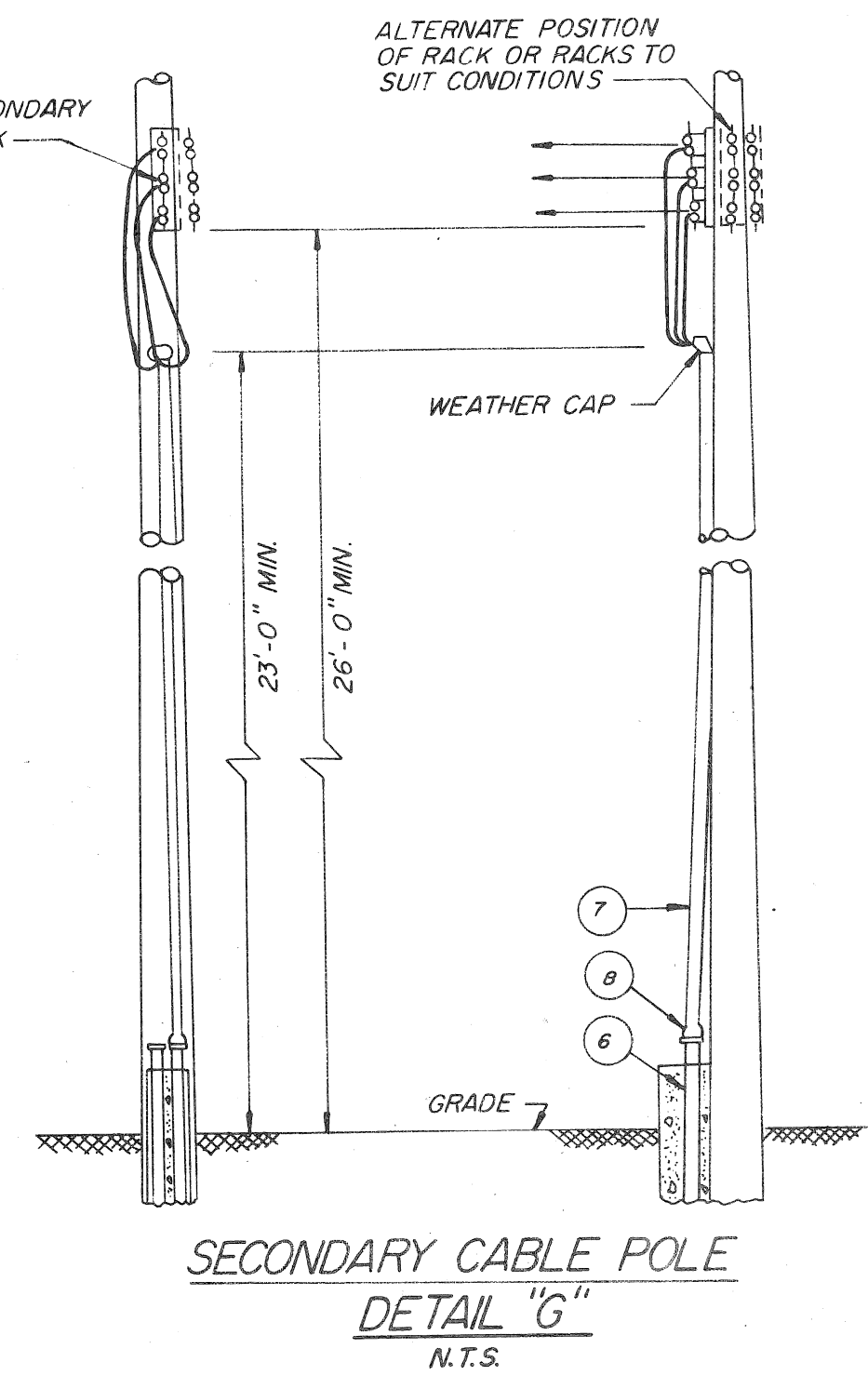
COMB. TRANSF. POLE, MULT. ST. LTG. TRANSF. POLE,
MULT. ST. LTG. & SEC. CABLE POLE
(CLUSTER MOUNT-TYP.)
DETAIL "C"
N.T.S.

TRANSFORMER POLE DETAIL
DETAIL "D"
N.T.S.

MULT. ST. LTG. OR T.S. CABLE POLE
DETAIL "E"
N.T.S.



CHRONOPLAN CABLE POLE
DETAIL "F"
N.T.S.



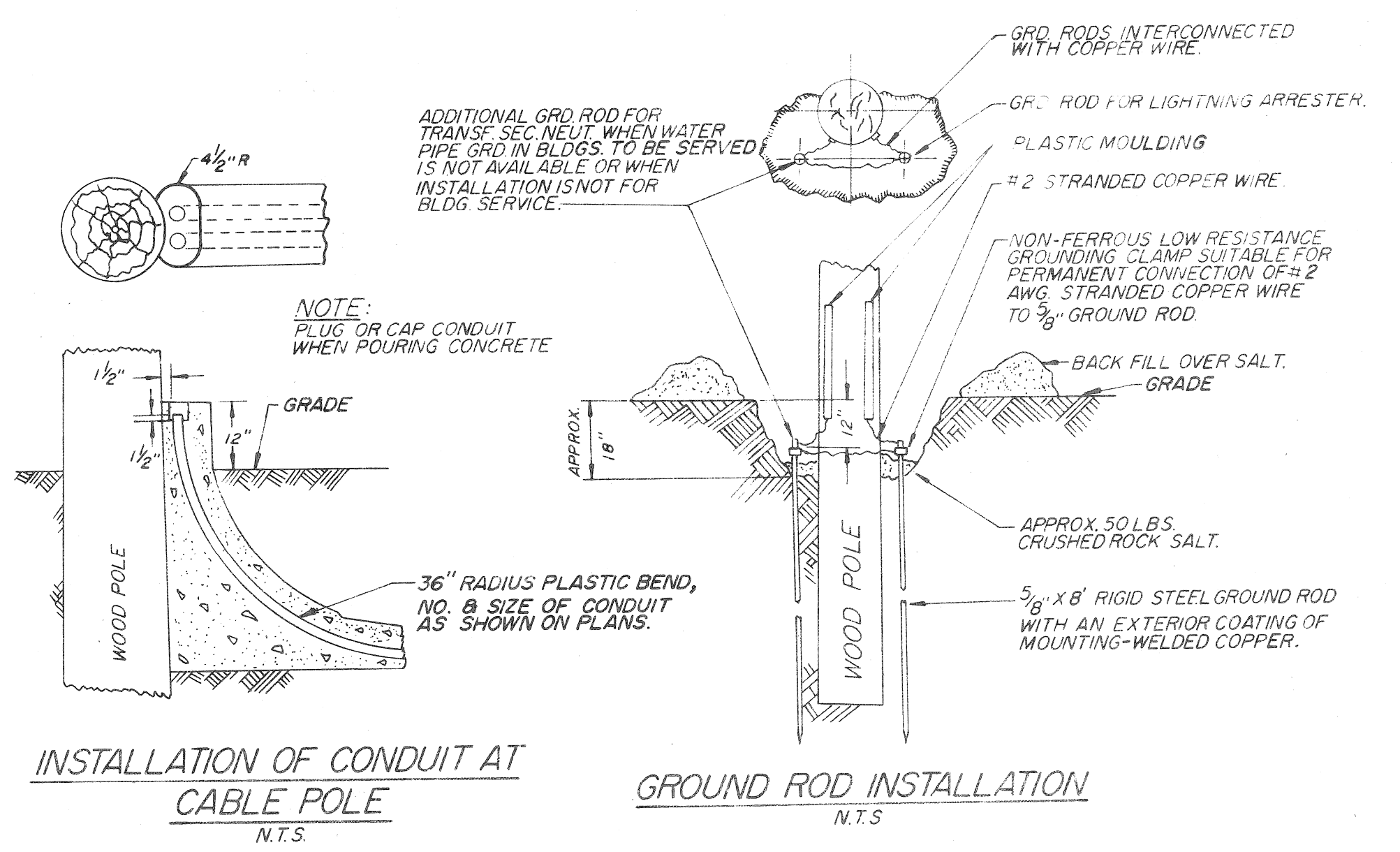
SECONDARY CABLE POLE
DETAIL "G"
N.T.S.

USE "SHARPIE"
PEN ONLY
ON ROUGH SIDE

COLOR
 YELLOW - MULTIPLE STREET LIGHTING, EITHER PLASTIC OR LEAD CABLE
 GREEN - COMMUNICATIONS, PILOT WIRE AND SUPERVISORY CABLES
 WHITE - TRAFFIC SIGNALS
 ORANGE - CONVENIENCE OUTLETS, COMFORT STATION FEEDS, MARINA POWER, ECT.

WRITTEN INFORMATION SHOULD INCLUDE CIRCUIT NUMBER, PHASE (A1, B3, ECT.), VOLTAGE PRESENT (480/277, 120, 480/277, 6.6 SERIES, ECT.). ADDITIONAL INFORMATION AS REQUIRED.

CABLE MARKING TAG
(PLASTIC)
N.T.S.



INSTALLATION OF CONDUIT AT CABLE POLE
N.T.S.

GROUND ROD INSTALLATION
N.T.S.

SUBSTATION NAMES ON IDENTIFICATION TAGS SHALL BE SPELLED AS FOLLOWS

ATW TR.	MCRDY
BI	MTRSE
BUTZL.	PAL PK.
CNFLD.	PHLP
CONNR	PORTER
CUSTER	STNTN.
GRNFD.	STONE
HUDSN.	TRNTY.
J. CAMP	TRBLY.
JOY RD.	TURNR.
L.A. BEL.	VERNR.
LTHRP.	WALTN.
LUDDN.	WARRN.
MAPLE.	WD. TER.

DATE	DESCRIPTION	CHKD. BY
		42

WIDENING OF CHRYSLER E. SERV. DR., RIVARD,
PAVING OF RUSSELL & MISCELLANEOUS CONSTRUCTION
WHOLESALE DISTRIBUTION CENTER NO.2 MICH. R-165
TRANSFORMER POLES & MISC. CABLE POLE DETAILS

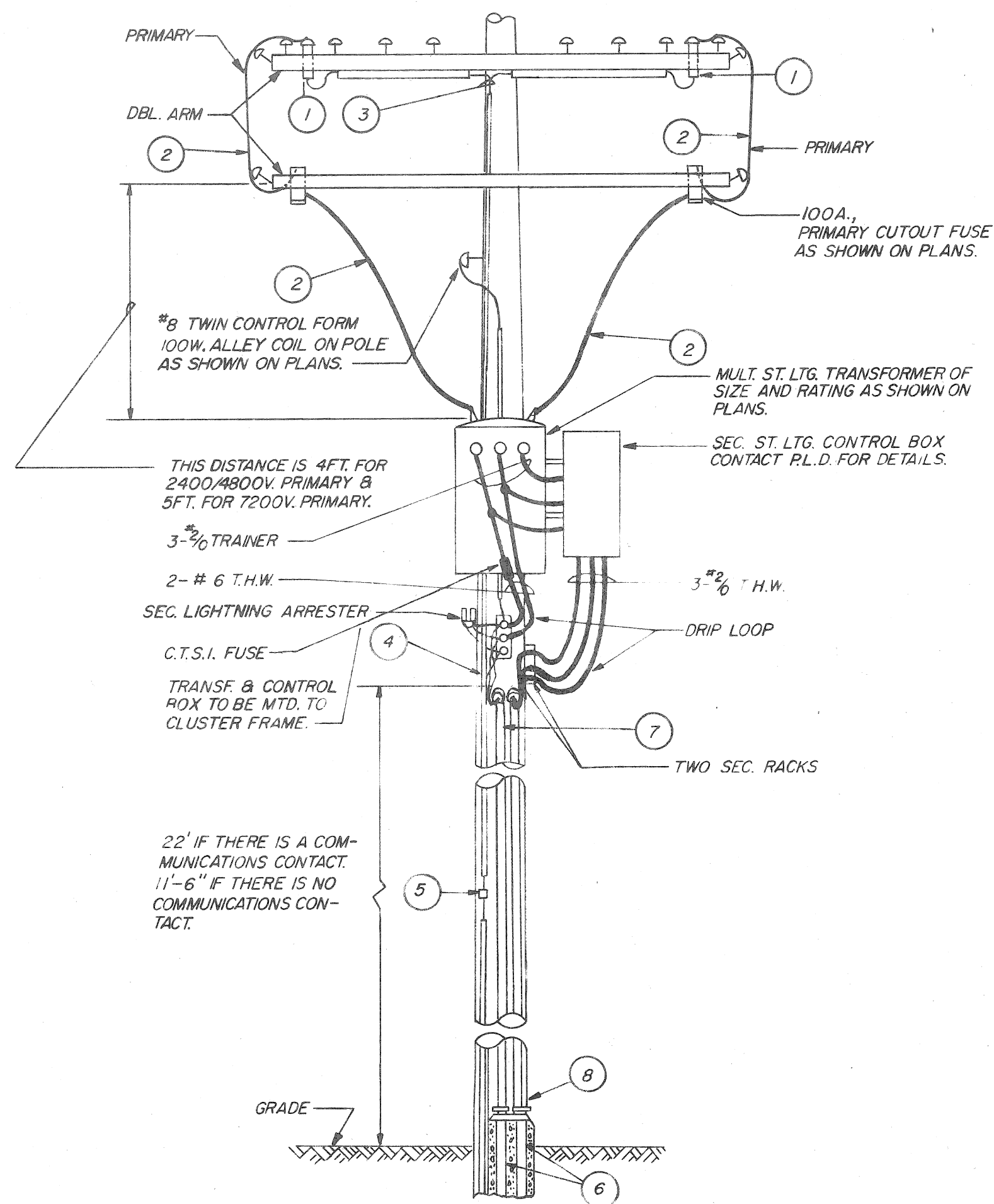
SHEET 39 OF 44 SHEETS
CONTRACT NO.
ASSIGNMENT NO.
DATE

CITY OF DETROIT
CITY ENGINEERING DIVISION EPMD
BUREAU OF STREETS AND HIGHWAYS
FOR
COMMUNITY AND ECONOMIC
DEVELOPMENT DEPARTMENT

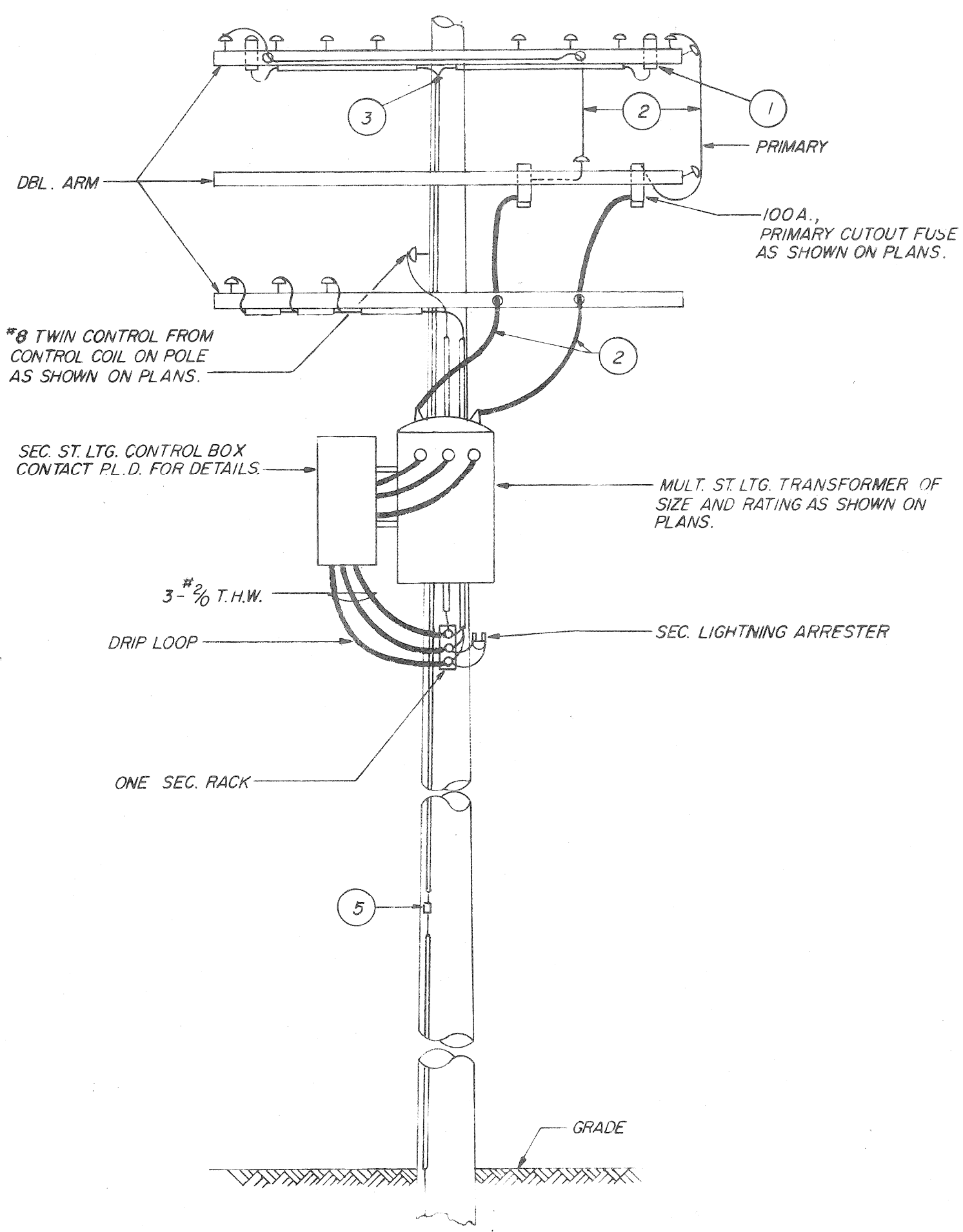
DRAWN BY CEA
CHECKED BY
APPROVED BY
DATE 3-10-80
DRWG NO. 9 OF 14
FILE NO. CEA 1015

PUBLIC LIGHTING
COMMISSION
CITY OF DETROIT

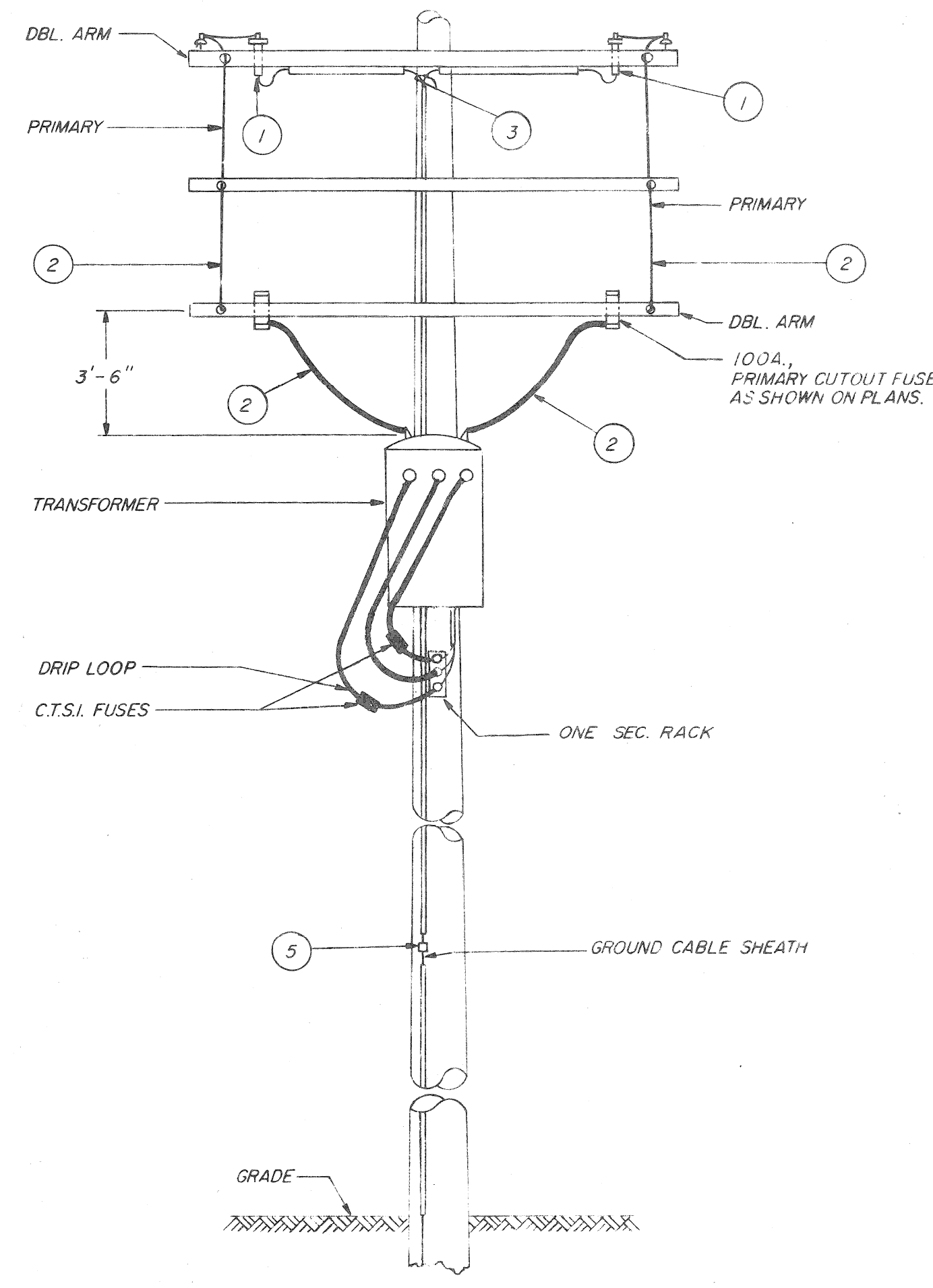
FILE NO. 51-0564
SHEET NO. 9 OF 14
DATE 3-10-80



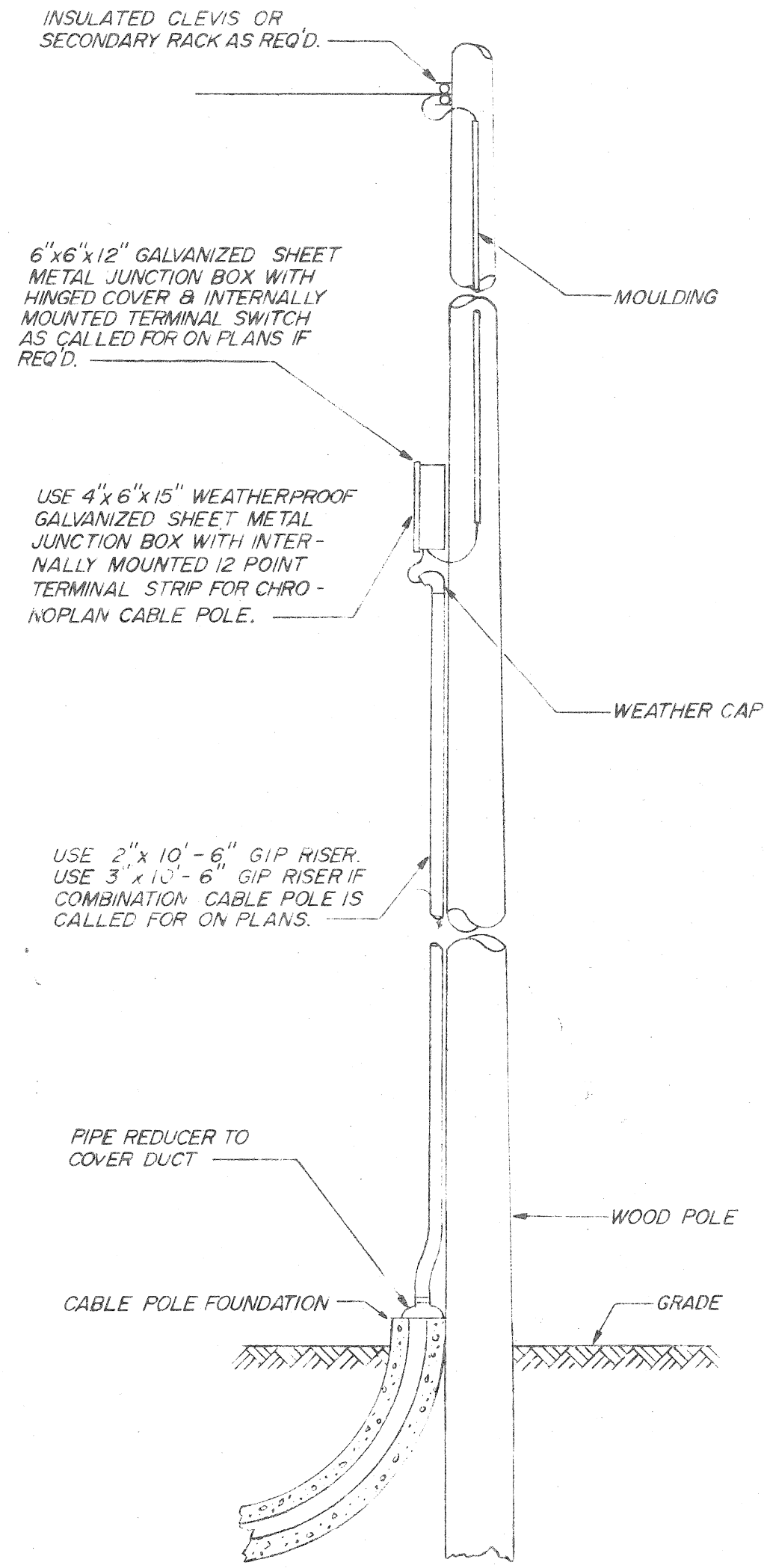
COMB TRANSF. POLE & ST. LTG. & SEC. CABLE POLE
DETAIL "A"
N. T. S.



MULT. ST. LTG. TRANSFORMER POLE
DETAIL "B"
N. T. S.



TRANSFORMER POLE DETAIL
DETAIL "C"
N. T. S.



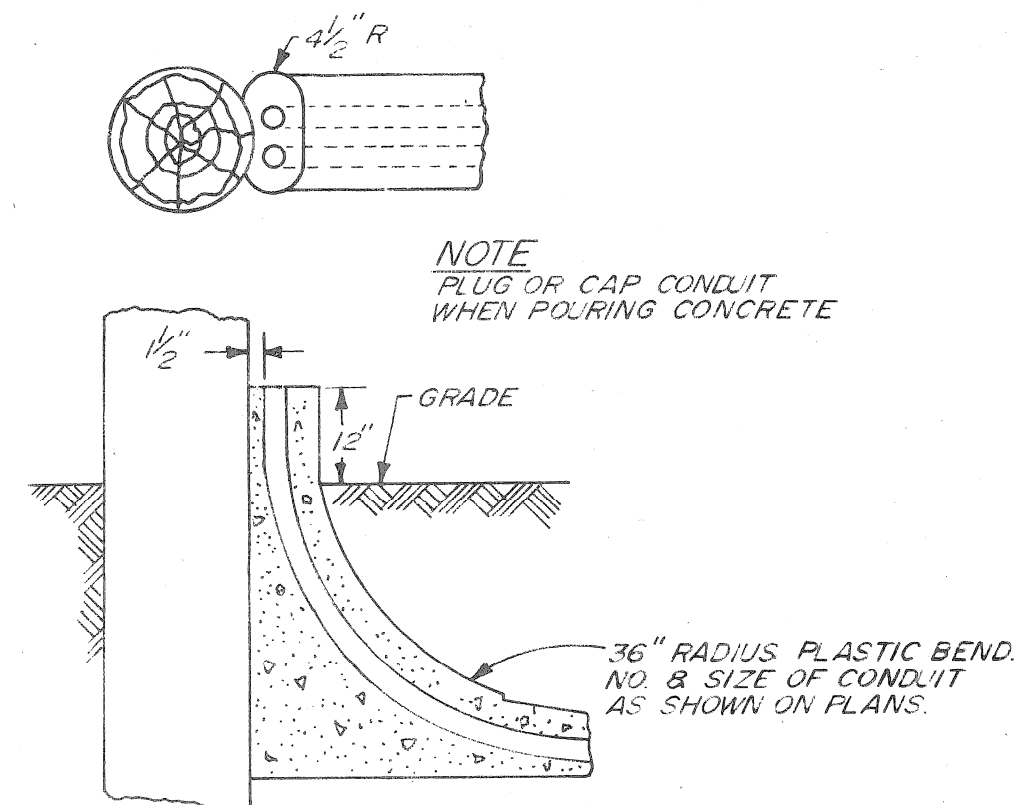
TYPICAL CHRONOPLAN, SECONDARY, MULT. ST. LTG. & TRAFFIC SIGNAL CABLE DETAIL
DETAIL "D"
N. T. S.

NOTE:
FOR ALL CABLE POLES INSTALL 2-5/8" x 9'-0" GROUND RODS AS SHOWN ON GROUND ROD INSTALLATION AND CONNECT GROUND RODS WITH #2 COPPER WIRE TO IRON PIPE RISER WITH SUITABLE GROUND CLAMP.

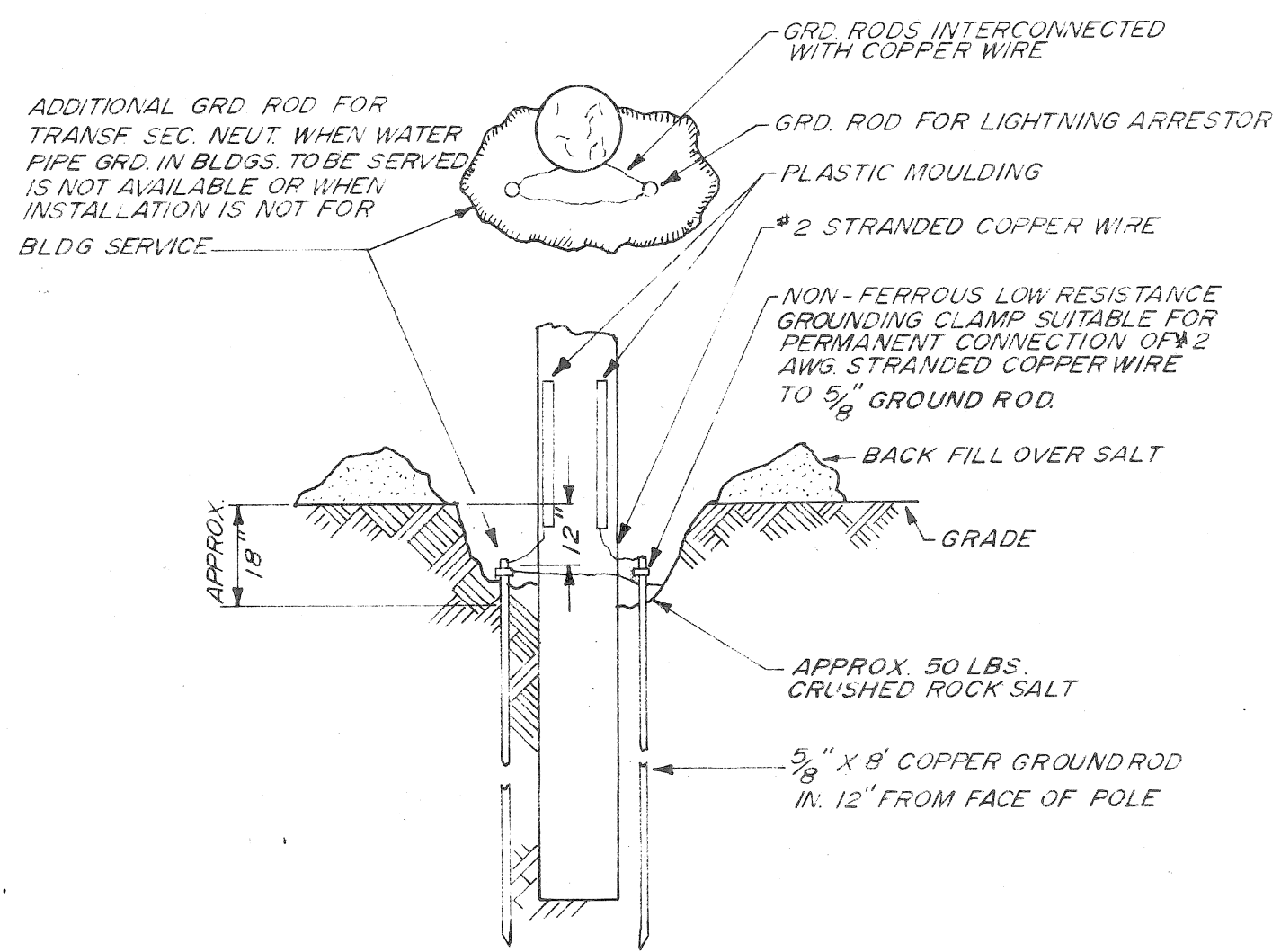
DETAIL ITEMS	
1	LIGHTNING ARRESTER-SIZE AND TYPE AS REQUIRED
2	#6 OVERHEAD TRAINING WIRE, (NEOPRENE COVERED, WEATHERPROOF)
3	#2 GROUND WIRE UNDER MOULDING
4	WEATHERHEAD
5	FOUR SCREW CONNECTOR
6	36" RADIUS PLASTIC BEND, NO. & SIZE OF CONDUIT AS SHOWN ON PLANS.
7	3" GIP RISER
8	3"x4" REDUCER ADAPTER

2" SQUARE
PUNCH 1/8" HOLE FOR NAIL
USE 1/4" STEEL STAMP FOR LETTERING
PIN SET MARK 7'-0" ABOVE GRADE
C 45 - PLD 45' POLE
60 - SET IN 1960 (TYP.)
STOCK: 0.032" ALUMINUM MILL FINISH

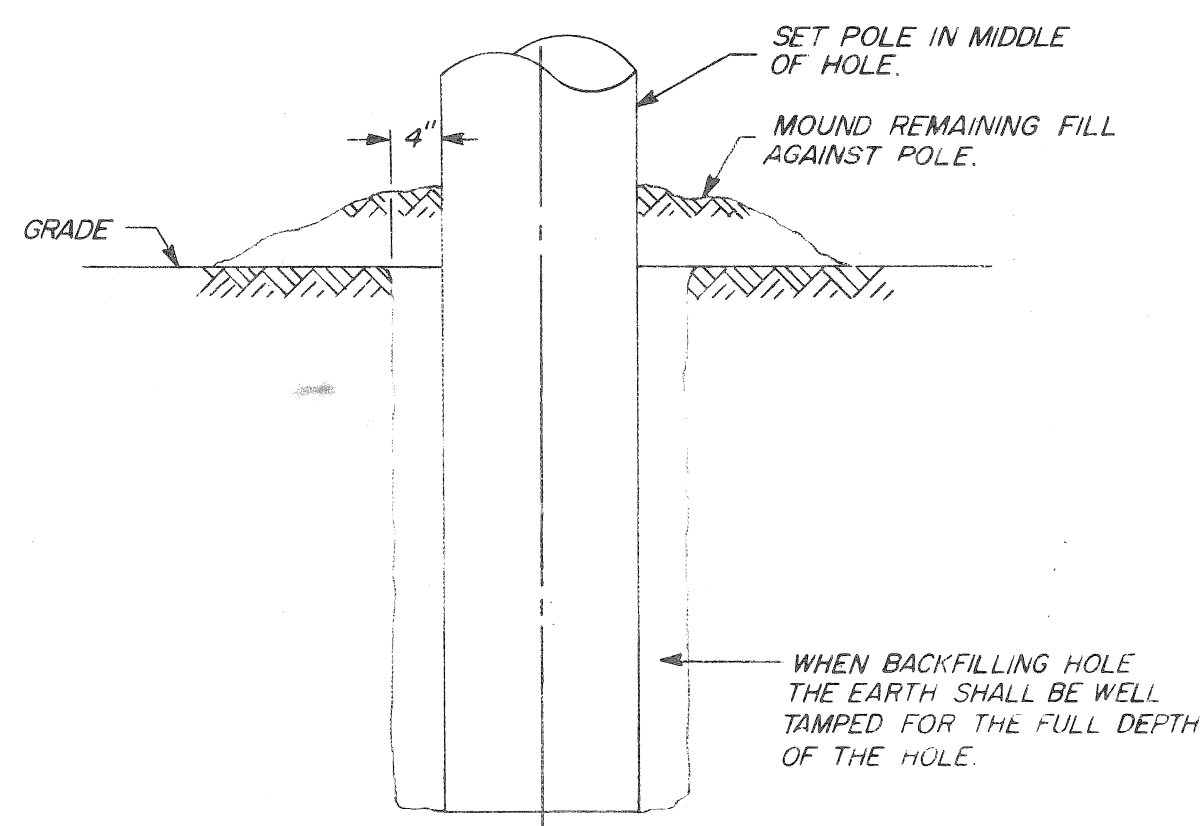
TYPICAL MARKING WOOD POLE TAGS



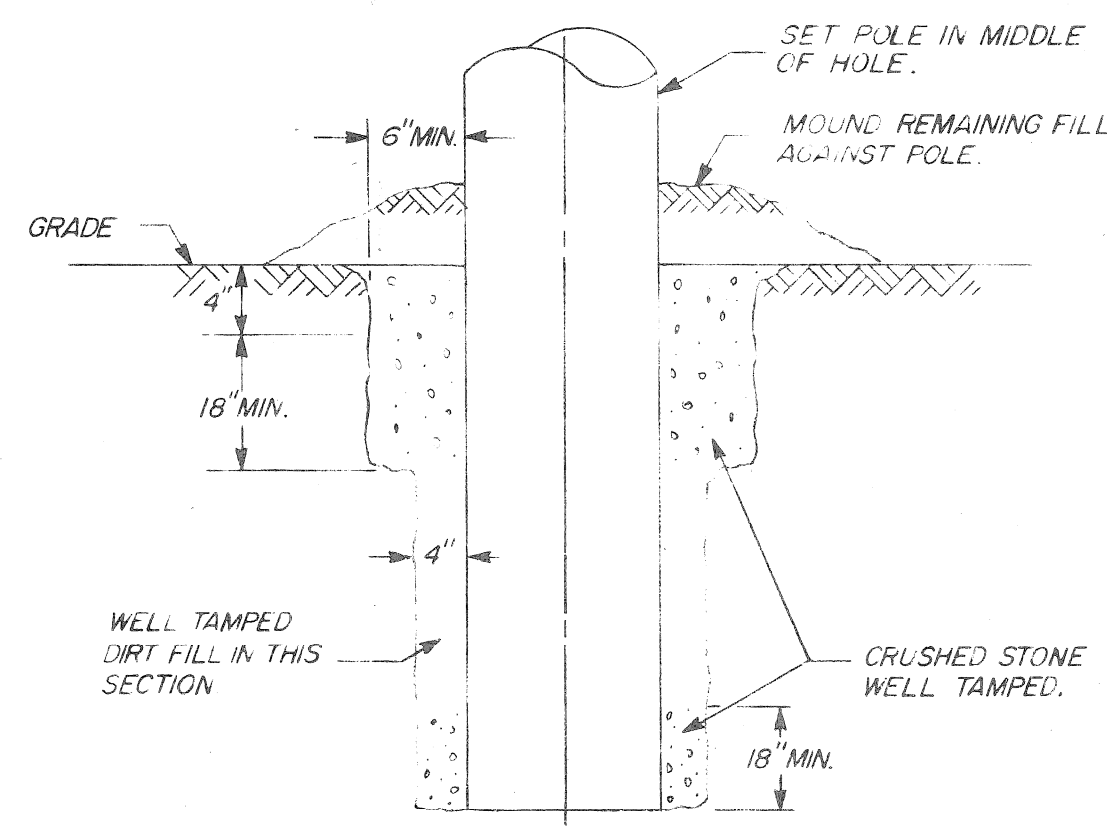
INSTALLATION OF CONDUIT AT CABLE POLE



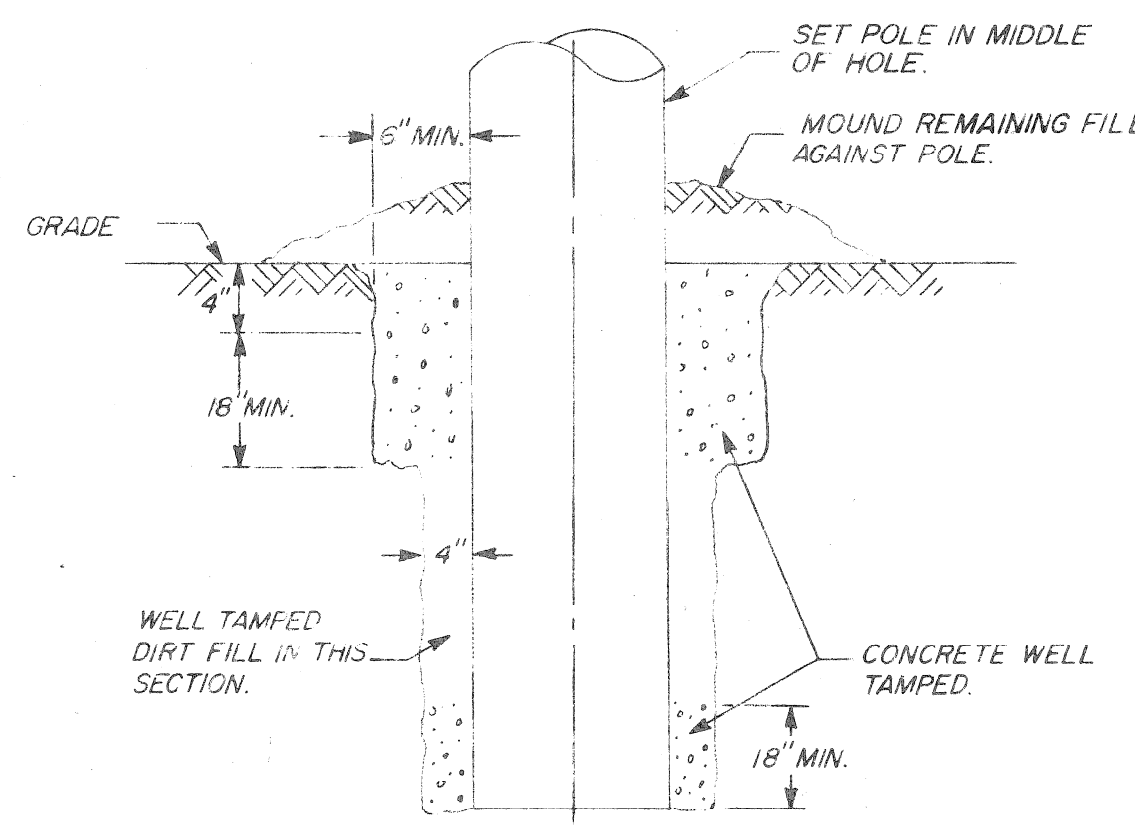
GROUND ROD INSTALLATION



WOOD POLE INSTALLATION
N. T. S.



M. S. S.
SELF-SUPPORTING WOOD POLE IN CRUSHED STONE
N. T. S.



WOOD POLE IN CONCRETE
N. T. S.

DATE	DESCRIPTION	BY

WIDENING OF CHRYSLER E. SERV. DR., RIVARD,
PAVING OF RUSSELL & MISCELLANEOUS CONSTRUCTION
WHOLESALE DISTRIBUTION CENTER NO.2 MICH. R-165
TRANSFORMER POLES & MISC. CABLE POLE DETAILS

SHEET 40 OF 44 SHEETS
CONTRACT NO.
ASSIGNMENT NO.
DATE

CITY OF DETROIT
CITY ENGINEERING DIVISION EPMD
BUREAU OF STREETS AND HIGHWAYS
FOR
COMMUNITY AND ECONOMIC
DEVELOPMENT DEPARTMENT

DRAWN C.E.A.
CHECKED
APPROVED
DATE 3-10-80

PLAN PREPARED BY
CONSULTING ENGINEERING ASSOCIATES INC.
ENGINEERING CONSULTANTS
16580 WYOMING DETROIT, MICH. 48221
DRWG. NO. 10 OF 14
FILE NO. CEA 1015

PUBLIC LIGHTING
COMMISSION
CITY OF DETROIT

51-0564
10 OF 14
3-10-80

USE	VOLT RATING NO.	ITEM NO.	CONDUCTOR	ISYNTHETIC RUBBER	IMPREG-NATED PAPER	POLYETH-YLENE	POLYVINYL-CHLORIDE	SHIELD OVER INSULATED CONDUCTOR	TAPE OVER INSULATED CONDUCTOR(S)	IMPREG-NATED PAPER BELT	JACKET	LEAD SHEATH	COVERING OVER LEAD	STEEL TAPE ARMOR	COVERING OVER STEEL CONDUCTOR			
OVERHEAD LINE WIRE	---	---	1#12 AWG PLUMBOATED SOLD COPPER													0.047 INCH BLACK NEOPRENE		
			ASTM B1														0.063 INCH BLACK NEOPRENE	
			1#10 AWG PLUMBOATED TANK COPPER															0.032 INCH BLACK POLYETHYLENE
			ASTM B2, B8															0.047 INCH BLACK POLYETHYLENE
			1#8 AWG PLUMBOATED TANK COPPER															0.063 INCH BLACK POLYETHYLENE
SPECIAL EVENT FEEDER	600V	6	1#2 AWG UNCOATED SOLD COPPER															
			ASTM B1															
			1#1 AWG UNCOATED TANK COPPER															
			ASTM B2, B8															
			1#1/2 AWG UNCOATED TANK COPPER															
MULT. ST. LTG.	600V	7	1#2 AWG UNCOATED TANK COPPER															
			ASTM B2, B8															
			1#1 AWG UNCOATED TANK COPPER															
			ASTM B2, B8															
			1#1/2 AWG UNCOATED TANK COPPER															
TRAFFIC SIG. SECONDARY	600V	8	1#2 AWG UNCOATED TANK COPPER															
			ASTM B2, B8															
			1#1 AWG UNCOATED TANK COPPER															
			ASTM B2, B8															
			1#1/2 AWG UNCOATED TANK COPPER															
RECEPTACLE, BRACKET & LAMP POST WIRE	600V	9	1#2 AWG UNCOATED TANK COPPER															
			ASTM B2, B8															
			1#1 AWG UNCOATED TANK COPPER															
			ASTM B2, B8															
			1#1/2 AWG UNCOATED TANK COPPER															
AERIAL SERVICE	600V	10	1#2 AWG UNCOATED TANK COPPER															
			ASTM B2, B8															
			1#1 AWG UNCOATED TANK COPPER															
			ASTM B2, B8															
			1#1/2 AWG UNCOATED TANK COPPER															
DISTRIBUTION CABLES	7000V BELTED	11	1#2 AWG UNCOATED TANK COPPER															
			ASTM B2, B8															
			1#1 AWG UNCOATED TANK COPPER															
			ASTM B2, B8															
			1#1/2 AWG UNCOATED TANK COPPER															
SERIES ST. LTG. CABLE, IN DUCT	7500V BELTED	12	1#2 AWG UNCOATED TANK COPPER															
			ASTM B2, B8															
			1#1 AWG UNCOATED TANK COPPER															
			ASTM B2, B8															
			1#1/2 AWG UNCOATED TANK COPPER															
SERIES ST. LTG. CABLE, DIRECT BURIAL	7500V BELTED	13	1#2 AWG UNCOATED TANK COPPER															
			ASTM B2, B8															
			1#1 AWG UNCOATED TANK COPPER															
			ASTM B2, B8															
			1#1/2 AWG UNCOATED TANK COPPER															
MULTI-CONDUCTOR SIGNAL CABLE, IN DUCT	7500V BELTED	14	1#2 AWG UNCOATED TANK COPPER															
			ASTM B2, B8															
			1#1 AWG UNCOATED TANK COPPER															
			ASTM B2, B8															
			1#1/2 AWG UNCOATED TANK COPPER															
MULTI-CONDUCTOR SIGNAL CABLE, AERIAL	7500V BELTED	15	1#2 AWG UNCOATED TANK COPPER															
			ASTM B2, B8															
			1#1 AWG UNCOATED TANK COPPER															
			ASTM B2, B8															
			1#1/2 AWG UNCOATED TANK COPPER															
MULTI-CONDUCTOR SIGNAL CABLE, IN DUCT	7500V BELTED	16	1#2 AWG UNCOATED TANK COPPER															
			ASTM B2, B8															
			1#1 AWG UNCOATED TANK COPPER															
			ASTM B2, B8															
			1#1/2 AWG UNCOATED TANK COPPER															
MULTI-CONDUCTOR SIGNAL CABLE, IN DUCT	7500V BELTED	17	1#2 AWG UNCOATED TANK COPPER															
			ASTM B2, B8															
			1#1 AWG UNCOATED TANK COPPER															
			ASTM B2, B8															
			1#1/2 AWG UNCOATED TANK COPPER															
MULTI-CONDUCTOR SIGNAL CABLE, IN DUCT	7500V BELTED	18	1#2 AWG UNCOATED TANK COPPER															
			ASTM B2, B8															
			1#1 AWG UNCOATED TANK COPPER															
			ASTM B2, B8															
			1#1/2 AWG UNCOATED TANK COPPER															
MULTI-CONDUCTOR SIGNAL CABLE, IN DUCT	7500V BELTED	19	1#2 AWG UNCOATED TANK COPPER															
			ASTM B2, B8															
			1#1 AWG UNCOATED TANK COPPER															
			ASTM B2, B8															
			1#1/2 AWG UNCOATED TANK COPPER															
MULTI-CONDUCTOR SIGNAL CABLE, IN DUCT	7500V BELTED	20	1#2 AWG UNCOATED TANK COPPER															
			ASTM B2, B8															
			1#1 AWG UNCOATED TANK COPPER															
			ASTM B2, B8															
			1#1/2 AWG UNCOATED TANK COPPER															
MULTI-CONDUCTOR SIGNAL CABLE, IN DUCT	7500V BELTED	21	1#2 AWG UNCOATED TANK COPPER															
			ASTM B2, B8															
			1#1 AWG UNCOATED TANK COPPER															
			ASTM B2, B8															
			1#1/2 AWG UNCOATED TANK COPPER															
MULTI-CONDUCTOR SIGNAL CABLE, IN DUCT	7500V BELTED	22	1#2 AWG UNCOATED TANK COPPER															
			ASTM B2, B8															
			1#1 AWG UNCOATED TANK COPPER															
			ASTM B2, B8															
			1#1/2 AWG UNCOATED TANK COPPER															
MULTI-CONDUCTOR SIGNAL CABLE, IN DUCT	7500V BELTED	23	1#2 AWG UNCOATED TANK COPPER															
			ASTM B2, B8															
			1#1 AWG UNCOATED TANK COPPER															
			ASTM B2, B8															
			1#1/2 AWG UNCOATED TANK COPPER															
MULTI-CONDUCTOR SIGNAL CABLE, IN DUCT	7500V BELTED	24	1#2 AWG UNCOATED TANK COPPER															
			ASTM B2, B8															
			1#1 AWG UNCOATED TANK COPPER															
			ASTM B2, B8															
			1#1/2 AWG UNCOATED TANK COPPER															
MULTI-CONDUCTOR SIGNAL CABLE, IN DUCT	7500V BELTED	25	1#2 AWG UNCOATED TANK COPPER															
			ASTM B2, B8															
			1#1 AWG UNCOATED TANK COPPER															
			ASTM B2, B8															
			1#1/2 AWG UNCOATED TANK COPPER															

ALL MULTIPLE STREET LIGHTING, TRAFFIC SIGNAL SECONDARY AND SPECIAL EVENT CABLES INSTALLED IN CONDUIT SHALL BE AS PER THE FOLLOWING: CONDUCTORS COATED STRANDED COPPER CONDUCTOR PER ASTM B-8 AND B-189 INSULATION MEETS OR EXCEEDS ALL REQUIREMENTS OF INTERIM STANDARD #1 TO IPCEA S-68-56 (MARCH 1971) FOR ETHYLENE PROPYLENE RUBBER INSULATION AND ASTM D 2802-70 AND UL STANDARD 44 JACKET, EXCEEDS ALL REQUIREMENTS OF IPCEA S-19-81 (5TH EDITION) SECTION 413.80 FOR HEAVY DUTY CHLOROSULFONATED-POLYETHYLENE LISTED BY UNDERWRITERS LABORATORIES, INC. AS TYPE RHH OR RHW, USE FR-1.

PRIOR TO PLACING ORDER FOR PURCHASE OF THIS CABLE, A SAMPLE LENGTH OF CABLE MUST FIRST BE SUBMITTED TO BLD FOR THEIR APPROVAL OF INSULATION AND JACKET CHARACTERISTICS

COLOR CODED AS FOLLOWS:
RED - A CIRCUIT
BLACK - B CIRCUIT
WHITE - NEUTRAL

ACCORDING TO SPECIFICATIONS

SPECIAL CONSTRUCTION

CONDUCTORS AND RILLERS TO BE COPPER

OR BRONZE TAPE INTERCALATED WITH PAPER TAPE OR (B) METALLIZED PAPER TAPE

OR BRONZE TAPE INTERCALATED WITH PAPER TAPE OR (B) METALLIZED PAPER TAPE

OR BRONZE TAPE INTERCALATED WITH PAPER TAPE OR (B) METALLIZED PAPER TAPE

OR BRONZE TAPE INTERCALATED WITH PAPER TAPE OR (B) METALLIZED PAPER TAPE

OR BRONZE TAPE INTERCALATED WITH PAPER TAPE OR (B) METALLIZED PAPER TAPE

OR BRONZE TAPE INTERCALATED WITH PAPER TAPE OR (B) METALLIZED PAPER TAPE

OR BRONZE TAPE INTERCALATED WITH PAPER TAPE OR (B) METALLIZED PAPER TAPE

OR BRONZE TAPE INTERCALATED WITH PAPER TAPE OR (B) METALLIZED PAPER TAPE

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AS PER PLANS

AS CONSTRUCTED

BID-ITEM	UNIT	DRWG. NO.						TOTAL	DRWG. NO.						TOTAL
		3	4	5	6	8	3		4	5	6	8			
1-3" ENCASED CONDUIT	LIN. FT.	268	163	175	--	--	606								
2-3" ENCASED CONDUIT	LIN. FT.	149	--	--	--	--	149								
2-4" ENCASED CONDUIT	LIN. FT.	383	48	248	--	--	679								
3-4" ENCASED CONDUIT	LIN. FT.	10	40	--	--	--	50								
4-4" ENCASED CONDUIT	LIN. FT.	317	951	709	--	--	1977								
6-4" ENCASED CONDUIT	LIN. FT.	675	988	--	--	--	1663								
2-4" & 1-3" ENCASED CONDUIT	LIN. FT.	--	--	16	--	--	16								
2-4" & 2-3" ENCASED CONDUIT	LIN. FT.	50	--	--	--	--	50								
3-4" & 1-3" ENCASED CONDUIT	LIN. FT.	17	--	--	--	--	17								
4-4" & 1-3" ENCASED CONDUIT	LIN. FT.	--	38	9	--	--	47								
ROUND HANDHOLE	EACH	3	7	9	--	--	19								
TYPE "D" HANDHOLE	EACH	9	7	--	--	--	16								
ADJUST MANHOLE	EACH	--	2	--	--	--	2								
REMOVE MANHOLE	EACH	3	5	1	--	--	9								
TWO-WAY MANHOLE	EACH	--	2	--	--	--	2								
THREE-WAY MANHOLE	EACH	3	3	1	--	--	7								
FOUR-WAY MANHOLE	EACH	2	3	--	--	--	5								
CORNER MANHOLE	EACH	--	1	--	--	--	1								
REMOVE LUMINAIRE	EACH	17	--	4	--	--	21								
REMOVE U.G.-FED ST. LTG. UNIT	EACH	8	7	--	--	--	15								
REMOVE FDN.	EACH	13	7	1	--	--	21								
COMB. T.S. & ST. LTG. STD. ON NEW FDN.	EACH	2	--	--	--	--	2								
SALVAGED U.G.-FED ST. LTG. UNIT ON NEW FDN.	EACH	3	3	--	--	--	6								
CODE 009-00 ST. LTG. STD. ON NEW FDN.	EACH	12	17	12	--	--	41								
6 FT. CLAMP-ON BRACKET ARM (3'-0" RISE)	EACH	14	17	12	--	--	43								
250 W. SODIUM VAPOR LUMINAIRE	EACH	34	18	16	--	--	68								
MULT. ST. LTG. CONTROL CABINET ON NEW FDN.	EACH	1	--	--	--	--	1								
REMOVE 600V., 2-1/C #2 ST. LTG. CABLES & 1-#2 NEUTRAL	LIN. FT.	--	464	--	462	--	926								
REMOVE 7000V., 1-3/C 350 MCM PRIMARY DISTRIBUTION CABLE	LIN. FT.	--	422	--	--	--	422								
REMOVE 7500V., 2-1/C #8 L.C. ST. LTG. CABLES	LIN. FT.	2263	198	472	75	--	3008								
CHRONOPLAN CABLE, 16 GA., PLASTIC JACKETED, 6 PR., SHIELDED	LIN. FT.	400	--	--	--	--	400								
600V., 2-1/C #6 SECONDARY CABLES	LIN. FT.	400	--	--	--	--	400								
600V., 2-1/C #6 ST. LTG. CABLES & 1-#6 NEUTRAL	LIN. FT.	--	50	--	--	--	50								
600V., 1-1/C #2 ST. LTG. CABLE & 1-#2 NEUTRAL	LIN. FT.	514	442	231	--	--	1187								
600V., 2-1/C #2 ST. LTG. CABLES & 1-#2 NEUTRAL	LIN. FT.	4042	1358	1755	144	--	7299								
600V., 3-1/C #2 ST. LTG. CABLES & 1-#2 NEUTRAL	LIN. FT.	150	190	79	--	--	419								
600V., 4-1/C #2 ST. LTG. CABLES & 1-#2 NEUTRAL	LIN. FT.	38	--	--	--	--	38								
600V., 3-1/C #2/0 ST. LTG. CABLES	LIN. FT.	358	--	--	--	--	358								
7000V., 1-3/C #2/0 PRIMARY DISTRIBUTION CABLE	LIN. FT.	--	186	--	--	--	186								
7000V., 1-3/C 350 MCM PRIMARY DISTRIBUTION CABLE	LIN. FT.	--	1144	--	--	--	1144								
REMOVE WOOD POLE	EACH	14	24	10	--	--	48								
REMOVE O.H. ST. LTG. UNIT	EACH	11	12	11	--	--	34								
REMOVE 600V., 1-6 PR. #16 I.M. SHIELDED CABLE FOR CHRONOPLAN	LIN. FT.	448	603	--	--	--	1051								
REMOVE #2 TWIN	LIN. FT.	1340	1495	259	--	--	3093								
REMOVE 1-#6 O.H. LINE	LIN. FT.	--	113	--	--	--	113								
REMOVE 2-#6 O.H. LINE	LIN. FT.	1895	2016	2393	--	--	6304								
REMOVE 3-#2 O.H. LINE	LIN. FT.	678	138	--	--	--	816								
REMOVE 3-#2/0 O.H. LINE	LIN. FT.	--	1408	--	--	--	1408								
DISMANTLE T.S. CABLE POLE	EACH	2	--	--	--	--	2								
DISMANTLE TRANSFORMER POLE	EACH	1	--	--	--	--	1								
DISMANTLE MULT. ST. LTG. TRANSFORMER POLE	EACH	--	1	--	--	--	1								
DISMANTLE SERIES ST. LTG. CABLE POLE	EACH	--	1	--	--	--	1								
DISMANTLE PRIMARY DISTRIBUTION CABLE POLE	EACH	--	1	--	--	--	1								
DISMANTLE COMB. SEC. & CHRONOPLAN CABLE POLE	EACH	1	--	--	--	--	1								
DISMANTLE COMB. PRIMARY DISTRIBUTION & MULT. ST. LTG. CABLE POLE	EACH	--	1	--	--	--	1								

DATE	DESCRIPTION	CHKD. BY

WIDENING OF CHRYSLER E. SERV. DR., RIVARD,
PAVING OF RUSSELL & MISCELLANEOUS CONSTRUCTION
WHOLESALE DISTRIBUTION CENTER NO.2 MICH. R-165
QUANTITY SHEET

SHEET 43 OF 44 SHEETS
 CONTRACT NO. _____
 ASSIGNMENT NO. _____
 DATE _____

CITY OF DETROIT
 CITY ENGINEERING DIVISION EPMD
 BUREAU OF STREETS AND HIGHWAYS
 FOR
 COMMUNITY AND ECONOMIC
 DEVELOPMENT DEPARTMENT

DRAWN CEA
 CHECKED *END*
 APPROVED *[Signature]*
 DATE 3-10-80

PLAN PREPARED BY:
 CONSULTING ENGINEERING ASSOCIATES INC.
 ENGINEERING CONSULTANTS
 16580 WYOMING DETROIT, MICH. 48221

DRWG. NO. 13 OF 14
 FILE NO. CEA 1015

CHECKED BY _____
 APPROVED BY _____

PUBLIC LIGHTING
COMMISSION
 CITY OF DETROIT

FILE NO. 51-0564
 SHEET NO. 13 OF 14
 DATE 3-10-80

BID-ITEM

UNIT 3 4 5 6 8 TOTAL

3 4 5 6 8 TOTAL

35 FT., CLASS 4 WOOD POLE	EACH	5	6	9	--	--	20
40 FT., CLASS 2 WOOD POLE	EACH	1	--	--	--	--	1
50 FT., CLASS 2 WOOD POLE	EACH	5	6	--	--	--	11
SALVAGED O.H. ST. LTG. UNIT WITH SERIES COIL	EACH	--	4	--	--	--	4
250 W. M.V.O.H. ST. LTG. UNIT WITH SERIES COIL	EACH	--	2	18	--	--	20
400 W. M.V.O.H. ST. LTG. UNIT WITH SERIES COIL	EACH	7	8	--	--	--	15
600V., 1-6 PR. #16 I.M. SHIELDED CABLE FOR CHRONOPLAN	LIN. FT.	363	606	--	--	--	969
#8 TWIN	LIN. FT.	447	756	1380	--	--	2583
1-#6 O.H. LINE	LIN. FT.	854	1373	--	--	--	2227
2-#6 O.H. LINE	LIN. FT.	344	--	1267	--	--	1611
3-#2 O.H. LINE	LIN. FT.	234	--	--	--	--	234
3-#2 0 O.H. LINE	LIN. FT.	452	725	--	--	--	1177
3-#2 TRIPLEX	LIN. FT.	--	120	--	--	--	120
FIT-UP WOOD POLE AS A MULT. ST. LTG. TRANSF. POLE	EACH	--	1	--	--	--	1
FIT-UP WOOD POLE AS A PRIMARY DISTRIBUTION CABLE POLE	EACH	1	1	--	--	--	2
FIT-UP WOOD POLE AS A COMB. PRIMARY DIST. & MULT. ST. LTG. CABLE POLE	EACH	--	1	--	--	--	1
FIT-UP WOOD POLE AS A COMB. MULT. ST. LTG. TRANSF., MULT. ST. LTG., SEC. & CHRONOPLAN C.P.	EACH	1	--	--	--	--	1
REMOVE T.S. CONTROLLER & CABINET	EACH	--	--	--	--	1	1
REMOVE T.S. CONTROLLER, CABINET & PEDESTAL	EACH	--	--	--	--	1	1
REMOVE 1-WAY PEDESTRIAN BRACKET ARM T.S.	EACH	--	--	--	--	1	1
REMOVE 1-WAY PEDESTRIAN BRACKET ARM T.S. & 1-WAY T.S.	EACH	--	--	--	--	1	1
REMOVE 2-WAY PEDESTRIAN BRACKET ARM T.S.	EACH	--	--	--	--	3	3
REMOVE 1-WAY BRACKET ARM T.S.	EACH	--	--	--	--	1	1
REMOVE 2-WAY MAST ARM T.S. & MAST ARM	EACH	--	--	--	--	1	1
REMOVE 2-WAY MAST ARM T.S., MAST ARM & STD.	EACH	--	--	--	--	3	3
REMOVE 3-WAY MAST ARM T.S. & MAST ARM	EACH	--	--	--	--	1	1
REMOVE 3-WAY MAST ARM T.S., MAST ARM & STD.	EACH	--	--	--	--	1	1
REMOVE 2-WAY PEDESTRIAN T.S. & PEDESTAL	EACH	--	--	--	--	6	6
2-WAY PEDESTRIAN BRACKET ARM T.S.	EACH	--	--	--	--	6	6
3-WAY MAST ARM T.S. & MAST ARM	EACH	--	--	--	--	2	2
3-WAY MAST ARM T.S., MAST ARM & STD. ON NEW FDN.	EACH	--	--	--	--	2	2
T.S. CONTROLLER WITH BASE MOUNTED CABINET ON NEW FDN.	EACH	--	--	--	--	1	1

DATE	DESCRIPTION

WYSLER E. SERV. DR., RIVARD, MISCELLANEOUS CONSTRUCTION CENTER NO.2 MICH. R-165

SHEET 44 OF 44 SHEETS CONTRACT NO. ASSIGNMENT NO. DATE

CITY C CITY ENGINE BUREAU OF S COMMUN DEVELOP