REFERENCE **FISCAL** SHEET HARDIMAN ROAD AT BURGREEN ROAD NOTIFICATION NO YEAR NO 22-038 2024 7 PHASING DIAGRAM REQUIRED SIGNAL HEADS REQUIRED SIGNS R OMIT No. 35102 LEFT TURN Υ PROFESSIONAL YIELD OMIT OMIT OMIT G 66" X 18" SERIES B, 11" HEIGHT, 80% SPACING ⊱G--G-⊱G-G WHITE LETTERS ON GREEN BACKGROUND ON GREEN 4R 1/6 2,6 4L SUPPORTING STRUCTURES R10-12 POLE NUMBER POLE LENGTH (FT) MAST ARM (FT) LUMINAIRE ARM (FT) 30" X 36" **FUTURE WATER MAIN** 12' REMOVE STOP BAR EXISTING MADISON 90" X 18" SERIES D. 11" HEIGHT, 100% SPACING 37' 75' UTILITY WATER WHITE LETTERS ON GREEN BACKGROUND MAIN AT APPROX. VIDEO DETECTOR SCHEDULE 1. CONTRACTOR SHALL NOT DRILL SIGN BRACKETS INTO THE STRAIN POLES OR MAST ARMS. DEPTH OF 5' AT 2. ALL OVERHEAD SIGN INSTALLATIONS SHALL INCLUDE MOUNTING BRACKETS WITH Z4 DETECTOR PHASE LOCATION OPERATION CAMERA SIZE CONDUIT CROSSING EXTENSIONS AS NEEDED. (SEE NOTE #4) Z2A 285' FROM STOP LINE **PULSE** VDC 1 140' FROM STOP LINE 2X2" CONDUIT. TYPE 1 INSTALLATION: Z2B 6'x6' **PULSE** VDC 1 **EXISTING SEWER** INSTALL AT APPROX. DEPTH OF 36" (SEE NOTE #4) Z4 6'x50' STOP LINE **PRESENCE** VDC 2 AT APPROX. DEPTH 76A 6'x6' 185' FROM STOP LINE **PULSE** VDC 3 REQ'D DUAL EVP SENSORS FOR PRE-EMPTION USING AI & OF 10' AT CONDUIT GTT GPS OPTICOM; ANTENNAS TO BE TOP-OF-CABINET MOUNTED Z6B 90' FROM STOP LINE **PULSE** VDC 3 **CROSSING** (SEE NOTE #1) (SEE NOTE #4) 71 6'x50' STOPLINE PRESENCE VDC 3 REQ'D CONTROLLER IN BASE MOUNTED CABINET WITH 18" CABINET RISER BASE AND TECHNICIAN FOOT PAD **FUTURE SEWER** REQ'D POWER SERVICE POLE W/ DISCONNECT AND METER REQ'D DAMPER ON 75' MAST ARM REQ'D DAMPER ON 55' MAST ARM VDC 1 \leq EXISTING R/W HARDIMAN ROAD (POSTED SPEED = 35 MPH) Z6B 90' FROM STOP BAR HARDIMAN ROAD (POSTED SPEED = 45 MPH) EXISTING R/W -OF - EXISTING R/W REQ'D STOP BAR (TYPICAL) ₹0-====f0===--<f0: SEE NOTE #5 EXISTING POWER SOURCE (APPROX. LOCATION) CONDUIT AND CONDUCTOR SCHEDULE CONDUIT CONDUCTOR FROM 2X2" CONDUIT IN 6" ENCASEMENT, TYPE 5 INSTALLATION: 1-1 3-1/C, No. 6 AWG DISCONNECT CONTROLLER SUGGESTED TIMINGS (ALL TIMES IN SECONDS) INSTALL AT APPROX. DEPTH OF 84" (SEE NOTE #4) 1-1" 3-1/C, No. 8 AWG DISCONNECT JUNCTION BOX A (LUMINAIRES) PHASE MOVEMENT MIN GREEN PASSAGE MAX GREEN YELLOW ALL RED RECALL 3-2" CONTROLLER JUNCTION BOX A 1. EVP SENSORS SHALL PROVIDE DUAL PRE-EMPTION USING AI AND GTT GPS OPTICOM. 2.0 3.2 2-2" JUNCTION BOX A POLE #1 3-1/C, No. 8 AWG ANTENNAS TO BE MOUNTED ON TOP OF TRAFFIC SIGNAL CABINET, CONTRACTOR TO COORDINATE WITH CITY OF MADISON PRIOR TO ORDERING MATERIALS. 2-2" 3-1/C, No. 8 AWG JUNCTION BOX A JUNCTION BOX B WBT 20 5.0 60 4.8 MIN 1.4 2. CONTRACTOR TO ENSURE STRAIN POLE HEIGHT/LENGTH IS ADEQUATE TO ACCOUNT JUNCTION BOX B JUNCTION BOX C 2-2" 3-1/C, No. 8 AWG FOR ALL SLOPES PRIOR TO ORDERING. 2-2" 3-1/C, No. 8 AWG JUNCTION BOX C POLE #2 3. CONTRACTOR SHALL INSTALL DAMPERS ON ALL MAST ARMS 50' OR LONGER AND 4 SBL 2.0 40 3.3 2.2 ALWAYS BE INSTALLED AT OUTSIDE TIP OR AS RECOMMENDED BY MANUFACTURER. 4. CONTRACTOR IS RESPONSIBLE FOR VERIFYING AND SPOTTING ALL UTILITY 1-7/C, No. 14 AWG CONTROLLER SIGNAL HEADS 2,4R 1-7/C, No. 14 AWG SIGNAL HEAD 4R SIGNAL HEAD 4L LOCATIONS PRIOR TO CONSTRUCTION. FRT 20 5.0 60 MIN 6 4.8 1.4 5. CONTRACTOR TO COORDINATE WITH CITY OF MADISON AND MANUFACTURER PRIOR TO ORDERING MOUNTING BRACKETS FOR ALL OVERHEAD SIGNS AND SIGNAL HEADS ON POLE #2. CONTROLLER SIGNAL HEAD 1/6 1-7/C. No. 14 AWG 1-7/C. No. 14 AWG SIGNAL HEAD 1/6 SIGNAL HEAD 6 ALL SIGNS AND SIGNAL HEADS SHOULD BE ANGLED AS CLOSE TO PERPENDICULAR AS POSSIBLE FOR THE ASSOCIATED APPROACHES AS SHOWN ON THE PLAN. CAT 5E CONTROLLER VDC 1,2,3 SHEET TITLE 30 ROUTE DESIGNER: LAURA BETH YATES, P.E. RESPONSIBLE PE: JENNY BROWN, P.E. SUPERVISOR: PLAN SUBMITTAL CITY OF MADISON TRAFFIC HARDIMAN HORIZ 100% PLANS SIGNAL LAYOUT ROAD DATE: DATE: 07/03/2024 DATE: 07/03/2024