pw:\\pw81.ad.dot.state.mn.us:cadp\Documents\Projects\DM_ROS\Non_Project\FrwOps\Detail Drawings\CAB_LOOP_MISC\cab_loop_misc_dt1.dgn PLOTTED: 6/6/2022 4:40:56 PM Reut1Anl T79CLW161FRW047 TMS

## GENERAL CONSTRUCTION NOTES:

1. BURIED FIBER OPTIC CABLE SHALL BE PLACED AT LEAST 20 FEET FROM CULVERT OUTLETS, UNLESS OTHERWISE SPECIFIED OR DIRECTED BY THE ENGINEER. FIBER OPTIC CABLE AT CULVERT LOCATIONS SHALL BE BORED UNDER CULVERTS UNLESS A MINIMUM OF 4' COVER EXISTS FROM THE GROUNDLINE TO THE TOP OF PIPE OR AS OTHERWISE SPECIFIED OR DIRECTED BY THE ENGINEER.

2. BORED FIBER OPTIC CABLE LOCATIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO PERFORMING WORK.

3. CCTV/NID POLES SHALL BE PLACED BEHIND GUARDRAIL, WHERE GUARDRAIL EXISTS, OR OUTSIDE OF THE CLEAR ZONE. CCTV POLES IN OPEN AREAS SHALL BE PLACED ON UPPER SIDE OF BACKSLOPE, WHERE POSSIBLE. POLE LOCATIONS SHALL BE AS APPROVED BY THE ENGINEER.

4. POLES SHALL BE MOUNTED WITH PROPER TIP-DOWN ORIENTATION, PARALLEL TO ROADWAY, FOR SERVICEABILITY. LIGHTNING RODS SHALL BE PLACED TO NOT INTERFERE WITH CAMERA VIEW.

5. CO-LOCATION (JOINT TRENCH) OF CONDUITS SHALL BE USED WHENEVER POSSIBLE AND NOTED ON AS-BUILT PLANS.

6. EMPTY CONDUITS, NOT PLACED IN JOINT TRENCH WITH FILLED CONDUITS FOR ENTIRE LENGTH, SHALL HAVE A NO 12 LOCATE WIRE FURNISHED AND INSTALLED WITH MINIMUM 3' COIL AT BOTH ENDS OF EMPTY CONDUITS AND LOCATE WIRE SHALL BE INCIDENTAL.
EMPTY CONDUITS SHALL BE CAPPED ON BOTH ENDS - INCIDENTAL.

7. NO OPEN TRENCHING WILL BE ALLOWED IN WETLAND AREAS.

## NOTES

(1) INCLUDES ALL MOUNTING STEEL AND HARDWARE
(2) LIST TYPE(S) 334, CCTV, ETC.
(3) LIST DELIVERY LOCATION (METRO TRUCK STATION, ETC.)
(4) LIST SIZE OF FOUNDATION(S)/SHELTER
(5) LIST TYPE 334, 340 ETC.
(6) LIST MAIN BREAKER SIZE IF NOT STANDARD 60 AMP
(7) LIST QTY & HEIGHT OF EACH SIZE POLE
(8) LIST QTY & SIZE OF SPLICE/PATCH PANEL(S)
(9) FOR ELECTRICAL GROUND AT PEDESTRIAN GATE
- ALL OTHER GROUNDING IS INCIDENTAL
(10) INCLUDE PLACING AND SHAPING
(11) BASED ON A PERIMETER EXTENDING 4' OUTSIDE AND 4' DEEP AT EACH POLE FOUNDATION, CABINET FOUNDATION, & VAULTS AS SHOWN ON THE PLANS

## GENERAL NOTES:

TURF ESTABLISHMENT & EROSION CONTROL FOR TRAFFIC MANAGEMENT SYSTEM PLACEMENT SHALL BE CONSIDERED INCIDENTAL, APPLIED TO ALL DISTURBED AREAS, IN ACCORDANCE WITH MNDOT 2575.1, 2575.2, 2575.3, AND THE FOLLOWING

1. SEED MIXTURE 25-141
2. FERTILIZER TYPE 3, ANALYSIS 22-5-10 (NPK) APPLIED AT A RATE OF 350 POUNDS/ACRE.
3. ROLLED EROSION PREVENTION CATEGORY 20 PER MNDOT 2575.3

TABULATION OF TMS ESTIMATED QUANTITIES (SPXXXX-XXX TH XXX) (A)

| TAB | SHEET NUMBER | ITEM NO. | ITEM | NOTES | UNIT | TOTAL TMS ESTIMATED QUANTITIES | SP XXXX-XXX QUANTITIES |
|---|---|---|---|---|---|---|---|
| SZ | | 2011.601 | ASBUILT | | LUMP SUM | | |
| SZ | | 2104.502 | REMOVE SERVICE EQUIPMENT | (1) | EACH | | |
| SZ | | 2104.502 | REMOVE FOUNDATION | (2) | EACH | | |
| SZ | | 2104.502 | SALVAGE SERVICE EQUIPMENT | | EACH | | |
| SZ | | 2104.502 | SALVAGE CCTV HARDWARE | | EACH | | |
| SZ | | 2104.502 | SALVAGE CABINET | | EACH | | |
| SZ | | 2104.601 | HAUL SALVAGED MATERIAL | (3) | LUMP SUM | | |
| SZ | | 2104.601 | REMOVE CABLES | | LUMP SUM | | |
| SZ | | 2105.507 | COMMON BORROW (CV) | | CU YD | | |
| SZ | | 2545.502 | LIGHT FOUNDATION DESIGN E MODIFIED | | EACH | | |
| SZ | | 2550.502 | SERVICE FOUNDATION | | EACH | | |
| SZ | | 2550.502 | CABINET FOUNDATION | | EACH | | |
| SZ | | 2550.502 | CCTV FOUNDATION | | EACH | | |
| SZ | | 2550.502 | TMS SHELTER CABINET FOUNDATION | (4) | EACH | | |
| SZ | | 2550.502 | FIBEROPTIC SPLICE VAULT | | EACH | | |
| SZ | | 2550.502 | OUTDOOR FIBER SPLICE ENCLOSURE | | EACH | | |
| SZ | | 2550.502 | BURIED CABLE SIGN | | EACH | | |
| SZ | | 2550.502 | LOOP DETECTOR SPLICE | | LIN FT | | |
| SZ | | 2550.502 | RAMP CONTROL SIGNAL DESIGN ONE-WAY | | EACH | | |
| SZ | | 2550.502 | FLASHER SIGNAL | | EACH | | |
| SZ | | 2550.502 | TMS SHELTER CABINET | (4) | EACH | | |
| SZ | | 2550.502 | CCTV CABINET | | EACH | | |
| SZ | | 2550.502 | INSTALL CABINET | (5) | EACH | | |
| SZ | | 2550.502 | SERVICE CABINET | (6) | EACH | | |
| SZ | | 2550.502 | SERVICE INSTALLATION TYPE A | | EACH | | |
| SZ | | 2550.503 | 1.25" NON-METALLIC CONDUIT | | LIN FT | | |
| SZ | | 2550.503 | 2" NON-METALLIC CONDUIT | | LIN FT | | |
| SZ | | 2550.503 | 3" NON-METALLIC CONDUIT | | LIN FT | | |
| SZ | | 2550.503 | 4" NON-METALLIC CONDUIT | | LIN FT | | |
| SZ | | 2550.503 | 2" RIGID STEEL CONDUIT | | LIN FT | | |
| SZ | | 2550.503 | POWER CABLE 1 CONDUCTOR NO 2 | | LIN FT | | |
| SZ | | 2550.503 | POWER CABLE 1 CONDUCTOR NO 4 | | LIN FT | | |
| SZ | | 2550.503 | POWER CABLE 1 CONDUCTOR NO 6 | | LIN FT | | |
| SZ | | 2550.503 | POWER CABLE 3 CONDUCTOR NO 14 | | LIN FT | | |
| SZ | | 2550.503 | SIGNAL CONTROL CABLE 6 CONDUCTOR NO 14 | | LIN FT | | |
| SZ | | 2550.503 | LEAD-IN CABLE 2 CONDUCTOR NO 14 | | LIN FT | | |
| SZ | | 2550.601 | FIBER OPTIC CABLE TESTING | | LUMP SUM | | |
| SZ | | 2550.602 | CCTV HARDWARE | (7) | EACH | | |
| SZ | | 2550.602 | NON-INTRUSIVE DETECTION HARDWARE | (7) | EACH | | |
| SZ | | 2550.602 | SERVICE CABINET TYPE SPECIAL | (6) | EACH | | |
| SZ | | 2550.602 | INSTALL CCTV HARDWARE | | EACH | | |
| SZ | | 2550.602 | FIBER OPTIC SPLICE/PATCH PANEL | (8) | EACH | | |
| SZ | | 2550.602 | FIBER OPTIC CABLE SPLICING | | EACH | | |
| SZ | | 2550.602 | ADJUST HANDHOLE | | EACH | | |
| SZ | | 2550.602 | FIBER OPTIC PIGTAIL TERMINATION | | EACH | | |
| SZ | | 2550.602 | FIBER DISTRIBUTION FRAME | | EACH | | |
| SZ | | 2557.502 | METAL BRACE ASSEMBLY - CHAIN LINK FENCE | | EACH | | |
| SZ | | 2557.502 | ELECTRICAL GROUND | (9) | EACH | | |
| SZ | | 2574.507 | COMMON TOPSOIL BORROW (CV) | (10) | CU YD | | |
| SZ | | 2575.507 | MULCH MATERIAL TYPE 9 | (11) | CU YD | | |
| | | | | | | | |

(A) XX% FEDERAL/XX% STATE FUNDING

TABULATIONS OF ESTIMATED QUANTITIES

REVISED 4/5/22

| REV. NO. | DATE: / / |
|---|---|
| REV. NO. | DATE: / / |

CERTIFIED BY _____ LIC.NO. 12345 DATE ___ 2021
LICENSED PROFESSIONAL ENGINEER

STATE PROJ. NO. XXXX-XXX (TH XXX) SHEET NO. XXXX? OF XXXXX SHEETS