

R ALL PROPOSED

ADS

PE	DES	TRIA
SIGN	IAL	HEA



-RIO-4B (L) 9" × 12"

M

DETAIL (A) T EACH REQUIRED SIGN PANEL TYPE I (NOT TO SCALE) I EACH TO BE

RELOCATED

NOTES:

DETAIL (B) 3 FACH REQUIRED SIGN PANEL TYPE (NOT TO SCALE) 3 EACH TO BE FURNISHED

9" × 12"

EXISTING SEQUENCE OF OPERATION								
PHASE	1	2	3	4	5	6	7	8
MOVEMENT		- 2-						1
CONCURRENT MOVEMENT PERMITTED	6	6	NOT USED	NOT USED	NOT USED	1 0R 2	NOT USED	NONE

PROPOSED SEQUENCE OF OPERATION									:
PHASE	1	2	3	4	5	6	7	8	
MOVEMENT	•	₩	- @-					ļ	
CONCURRENT MOVEMENT PERMITTED	6	6	NONE	NOT USED	NOT USED	1 0R 2	NOT USED	NONE	

MAST ARM SCHEDULE ARM FOUNDATION FOUNDATION QUADRANT DIAMETER 50'

*ASSUMED DEPTH. SHOULD BE VERIFIED BY ENGINEER WHEN SOIL BORINGS ARE SUBMITTED.

STANDARDS

720001	877001
805001	878001
814001	880006
814006	886001
873001	886006
720016	

DETECTOR LOOP REQUIREMENTS AND CALCULATIONS FOR ILLINOIS ROUTE 159 AND HUNTWOOD ROAD

L00P	PHASE ())	LOOP SIZE(FT)	REQUIRED * OF TURNS	CALCULATED INDUCTANCE MICROHENRIES (4H)	CALCULATED RESISTANCE OHMS (\(\Omega\)
EB LEFT TURN	8	6'X50' (Q)	3-6-3	798.5	l.88
EB RIGHT TURN	8	6'X50' (Q)	3-6-3	795.0	1.80

THE ABOVE VALUES ARE CALCULATED OF COMBINED LOOP AND LEAD-IN INDUCTANCE AND RESISTANCE, ACTUAL MEASURED VALUES SHOULD BE WITHIN +/- 20% OF THESE

LEGEND

04-00031-00-PV 9277 EXISTING PEDESTRIAN PUSH BUTTON FEDERAL AID PROJECT PROPOSED / RELOCATED PEDESTRIAN PUSH BUTTON IDOT JOB NO. C-98-309-06 EXISTING PEDESTRIAN SIGNAL HEAD IDOT CONTRACT NO. 97327

IDOT SECTION

COUNTY

ST. CLAIR

ILLINOIS

THOUVENOT,

☑ CORPORATE OFFICE

MOERCHEN, INC.

ENGINEERS ◆ SURVEYORS ◆ PLANNERS

4940 OLD COLLINSVILLE RD. SWANSEA, ILLINOIS 62226 TEL (618) 624–4488 FAX (618) 624–6688

☐ EDWARDSVILLE OFFICE

FAX (618) 656-4343 edwardsville@twm-inc.com

ST. LOUIS OFFICE

TEL (314) 236-5052 FAX (314) 872-2194

☐ WATERLOO OFFICE

TEL (618) 939-5050

PROFESSIONAL REGISTRATIONS

PROFESSIONAL STRUCTURAL ENGR. CORP.

ILLINOIS PROF. LAND SURVEYING CORP.

WISSOURI PROFESSIONAL ENGR. CORP.

MISSOURI LAND SURVEYING CORP.

ILLINOIS PROFESSIONAL DESIGN FIRM

PROFESSIONAL ENGINEERING CORP.

1015B CENTURY DRIVE EDWARDSVILLE, ILLINOIS 62025 TEL (618) 656-4040

1001 CRAIG ROAD, SUITE 260 ST. LOUIS, MISSOURI 63146

113 SOUTH MAIN STREET WATERLOO, ILLINOIS 62298

LICENSE NO.

62-035370

048-000029

NC 000346

WADE &

PROPOSED PEDESTRIAN SIGNAL HEAD EXISTING HANDHOLE N

 \boxtimes

REMOVE EXISTING SIGNAL POST, SIGNAL HEAD

 $-2\frac{1}{2}$ " -PVC-T-99', T&B WITH SCREENINGS/SAND

-REMOVE EXISTING HANDHOLE

-2" -PVC- T -20' T&B FOR ELECTRICAL WORK

REMOVE EXISTING SIGNAL POST, SIGNAL

HEAD AND PEDESTRIAN SIGNAL HEAD

CONSTRUCT HANDHOLE OVER EXISTING CONDUIT AND CUT CONDUIT, SEE NOTE 2 -

PEDESTRIAN SIGNAL HEAD AND PUSHBUTTON

-2 - 1" PVC -T- 8' FACH T&B WITH SCREENINGS/SAND

PROPOSED HANDHOLE \square EXISTING DOUBLE HANDHOLE

> PROPOSED DOUBLE HANDHOLE EXISTING SERVICE INSTALLATION TO BE REMOVED

 \Diamond PROPOSED SERVICE INSTALLATION \bowtie EXISTING EVPS DUAL CHANNEL DETECTOR

EVPS DUAL CHANNEL DETECTOR, RELOCATED EXISTING EVPS SINGLE CHANNEL DETECTOR

EVPS SIGNAL CHANNEL DETECTOR, RELOCATED EXISTING EVPS CONFIRMATION BEACON

EVPS CONFIRMATION BEACON, RELOCATED

EXISTING SIGNAL HEAD BRACKET MOUNTED \bigcirc PROPOSED SIGNAL HEAD BRACKET MOUNTED

EXISTING SIGNAL HEAD WITH BACKPLATE, MAST ARM MOUNTED

PROPOSED SIGNAL HEAD WITH BACKPLATE, MAST ARM MOUNTED

EXISTING DETECTOR LOOP TO REMAIN IN PLACE

PROPOSED DETECTOR LOOP EXISTING CONTROLLER

RELOCATED CONTROLLER

PROPOSED PVC CONDUIT IN TRENCH, SIZE SPECIFIED

IL RTE 159

MATCH LINE STA. 66+50.00

- PVC-T-18' T&B WITH SCREENINGS/SAND

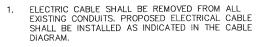
REMOVE EXISTING HANDHOLE SPLICE PROPOSED 3" CONDUIT

TO EXISTING 3" CONDUIT

-RELOCATE STREET

NAME SIGN FROM EXITING MAST ARM

-CLEAN **EXISTING** CONDUITS



PROVIDE 50' COIL OF EVPS LEAD-IN CABLE AND 50' COIL OF 3/C CABLE IN THE HANDHOLE AT THE NORTHWEST CORNER FOR FUTURE USE.

- PVC -T- 5' T&B FOR ELECTRICAL WORKE 2 - 4" PVC -T- 15' EACH T&B FOR ELECTRICAL WORK

> - PVC -T- 11' T&B FOR ELECTRICAL WORK-

REMOVE EXISTING MAST ARM ASSEMBLY AND POLE AND SIGNAL HEADS RELOCATED EVPS DETECTOR
AND CONFIRMATION BEACONS

FROM EXITING MAST ARM-

RELOCATED EVPS DETECTOR AND CONFIRMATION BEACON FROM SOUTH WEST CORNER AND RE-CONFIGURE

- PVC-T-19' T&B FOR ELECTRICAL WORK

AND CUT CONDUIT

CONSTRUCT HANDHOLF OVER EXISTING CONDUIT

ignature Date: xpiration Date:

SEAL

TATEMENT OF RESPONSIBILITY e utilized for any other part of the architectural ingineering or survey project.

HUNTWOOD ROAD RECONSTRUCTION
VILLAGE OF SWANSEA
ST. CLAIR COUNTY

TE DESCRIPTION	
_	TE DESCRIPTION

Drawn By:	BLR	SHEET
Designed By:	BLR	56
CHECKED BY:	SJK	OF 104 SHEETS
APPROVED BY:	SJK	PROJECT DESCRIPTI
PROJECT NUMBERT20-0	30356	ReConstruction
SSUED FOR RE	VIEW	SSUED FOR BIDD

SSUED FOR CONSTR. G RECORD DRAWING