- I. NEMA CONTROLLER CABINETS: IF A POWER SERVICE DISCONNECT SWITCH IS LOCATED BEFORE THE CONTROLLER CABINET. THE NEUTRAL (AC-) AND THE GROUNDING BARS IN THE CONTROLLER CABINET SHALL NOT BE CONNECTED TOGETHER AS SHOWN IN NEMA TS-2, FIGURE 5-4.
- II. IF SECONDARY DISCONNECT SWITCHES ARE CONNECTED AFTER THE PRIMARY DISCONNECT SWITCH, THE NEUTRAL (AC-) SHALL ONLY BE GROUNDED AT THE PRIMARY SWITCH. EQUIPMENT GROUNDING CONDUCTORS SHALL BE BROUGHT TO THE PRIMARY SWITCH, BUT SHALL BE GROUNDED AT BOTH SECONDARY AND PRIMARY SWITCHES.
- 7. PAYMENT ALL MATERIALS AND WORK REQUIRED TO COMPLETE THE EFFECTIVE GROUND FAULT CURRENT PATH SYSTEM ARE INCIDENTAL TO THE CONDUCTORS INSTALLED BY CONTRACT

## ITEM 809 ATC CONTROLLER, AS PER PLAN (PROGRAM AND INSTALL ONLY) SHALL NOTIFY THE ENGINEER AND MAINTAINING AGENCY, WHO WILL

ALL REQUIREMENTS OF SS 809 SHALL BE FOLLOWED, ALONG WITH THE ADDITIONAL DESCRIPTION AS STATED BELOW. THE ATC CONTROLLER WILL BE PROVIDED BY THE DISTRICT WITHOUT PROGRAMMING. IN THE CASE OF A 332/336 CABINET TYPE, THE CONTROLLER WILL BE PROVIDED WITH THE POWER CORD.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROGRAMMING THE CONTROLLER TO THE PROPOSED CONDITIONS ACCORDING TO THE PLANS. ODOT WILL NOT BE RESPONSIBLE FOR THE PROGRAMMING.

THE CONTROLLER SHALL BE LISTED ON THE TAP AND BE AN ECONOLITE COBALT AND COMPATIBLE WITH THE CABINET TYPE BEING INSTALLED

PAYMENT SHALL BE MADE ONCE THE CONTROLLER IS PROGRAMMED, INSTALLED, TESTED, FUNCTIONING ACCORDING TO THE PLANS, AND SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS TO COMPLETE THE WORK

# ITEM 631 SCHOOL SPEED LIMIT SIGN ASSEMBLY, 30" X 60", AS PER PLAN

THIS ITEM SHALL INCLUDE A S5-H1 30"X60" SCHOOL SIGN TWO FORWARD FACING 12" AMBER LED BEACONS MOUNTED ABOVE AND BELOW THE SCHOOL SIGN, AND ONE REAR FACING 12" AMBER LED BEACON MOUNTED ON THE OPPOSITE SIDE OF THE MAST ARM BEHIND TOP FORWARD FACING BEACON. THIS ASSEMBLY SHALL BE INSTALLED ON THE MAST ARM AND BE LOCATED ABOVE THE LANE LINE. THIS ITEM SHALL INCLUDE ALL MOUNTING EQUIPMENT FOR THE ABOVE ITEMS AND REQUIRED WIRING FROM THE TIMER ENCLOSURE TO THE MAST ARM MOUNTED SCHOOL SPEED LIMIT SIGN ASSEMBLY.

## ITEM 631 TIMER WITH ENCLOSURE, AS PER PLAN (INSTALL ONLY)

THIS ITEM SHALL CONSIST OF THE INSTALLATION OF CABINET, TIMER AND SCHOOL ZONE TIMER EQUIPMENT TO BE PROVIDED BY THE DEPARTMENT. THE CABINET SHALL BE POLE MOUNTED ON THE SIGNAL SUPPORT PER TC -83.10.

### 632 SIGNAL SUPPORT FOUNDATION

PRIOR TO ORDERING THE SIGNAL SUPPORTS. THE CONTRACTOR SHALL CONTACT OUPS TO HAVE ALL THE UTILITIES LOCATED IN THE FIELD THEN MEET WITH THE PROJECT ENGINEER TO LOCATE THE PROPOSED SUPPORT LOCATIONS TO INSURE THERE ARE NO CONFLICTS WITH UTILITIES, IF THERE ARE ISSUES. THE PROJECT ENGINEER SHALL PROVIDE GUIDANCE AS TO THE RELOCATION OF THE SUPPORT POLES.

DUE TO THE FURTHER POSSIBILITY OF CONFLICT WITH EXISTING OR PROPOSED UNDERGROUND OBSTRUCTIONS (INCLUDING THE POSSIBILITY OF UNRECORDED OBSTRUCTIONS) WHICH COULD AFFECT THE LOCATION OF THE FOUNDATION FOR THIS ITEM. AND CONSEQUENTLY, THE DESIGN OF THE SUPPORT AND/OR ARMS, THE CONTRACTOR SHALL NOT PLACE FINAL ORDERS FOR THE ITEM UNTIL THE FOUNDATIONS HAVE BEEN INSTALLED, AT FINAL GRADE, AND THE CONTRACTOR HAS RECEIVED, FROM ENGINEER, WRITTEN NOTICE TO PROCEED WITH THE ORDERS FOR THE ITEM.

IF ANY FOUNDATION LOCATIONS MUST BE ADJUSTED, THE CONTRACTOR DETERMINE THE REVISED LOCATION AND IF NEEDED, THE SUPPORT DESIGN. THE CONTRACTOR WILL NOT BE RESPONSIBLE FOR DETERMINING RATE. HOWEVER, IF THE CASING GETS STUCK, THE CONTRACTOR THE REVISED DESIGN. THE ENGINEER WILL INFORM THE CONTRACTOR OF ANY CHANGES NECESSARY AND AUTHORIZE THE CONTRACTOR TO ORDER THE SUPPORT.

THE CONTRACTOR SHALL, WHEN DEVELOPING THE PROGRESS SCHEDULE, AND THOSE OF SUBCONTRACTORS, ENSURE THAT THE FOUNDATIONS ARE INSTALLED AT THE EARLIEST TIME AS IS FEASIBLE AND PRACTICAL, AND SHALL INCLUDE SUFFICIENT TIME IN THE PROGRESS SCHEDULE FOR ORDERING, MANUFACTURING, DELIVERY, AND INSTALLATION OF THE SUPPORT ITEMS AFTER THE FOUNDATIONS ARE IN PLACE

NO PAYMENTS FOR DELIVERED MATERIALS FOR THE FOUNDATION OR SUPPORT ITEMS SHALL BE MADE UNTIL THE FOUNDATIONS ARE IN PLACE, AND IF CHANGES IN THE DESIGN OF THIS ITEM ARE REQUIRED, NO PAYMENT SHALL BE MADE FOR THE ITEMS MANUFACTURED TO THE ORIGINAL DESIGN.

PAYMENT WILL BE AT THE CONTRACT UNIT PRICE AND WILL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS, TOOLS, EQUIPMENT AND OTHER INCIDENTALS NECESSARY FOR EACH SUPPORT FURNISHED. IN PLACE. COMPLETE AND ACCEPTED.

## ITEM 632 SIGNAL SUPPORT FOUNDATION, AS PER PLAN

### SAN-20-2 86.

CONSTRUCT THE SIGNAL FOUNDATION PER CMS 632.14 AND TC-21.21, EXCEPT USE THE FOLLOWING PROCEDURE. USE DESIGN NUMBER 7 SIGNAL SUPPORTS 1 & 2. CONSTRUCT THE SUPPORT TO A DEPTH AS SPECIEIED IN TC-21.21 LISE A CASING TO THE DEPTH SPECIFIED AUGERING THE EXISTING SOIL FOR THE SIGNAL SUPPORT FOUNDATION. IT IS IMPORTANT THAT THE CONTRACTOR BEGINS REMOVAL OF THETEMPORARY CASING WHILE THE CONCRETE REMAINS WORKABLE.FAILURE TO REMOVE THE CASING COULD RESULT IN A DRILLED SHAFT THAT IS NOT CAPABLE OF SUPPORTING THE DESIGN LOAD.

WHEN THE CASING IS BEING WITHDRAWN, THERE IS THE POSSIBILITY THAT FLUID THAT MIGHT BE TRAPPED BEHIND THE CASING WILL CONTAMINATE THE CONCRETE. TO PREVENT THIS, IT IS IMPORTANT TO MAINTAIN A HEAD OF CONCRETE AT LEAST 5 FOOT (1.5 METER) IN THE CASING. THIS MINIMUM HEAD MAY NEED TO BE INCREASED TO COUNTERACT ANY GROUND HEAD THAT MIGHT BE IN THE CASING AT THE TIME IT IS WITHDRAWN. CASING SHOULD BE REMOVED BY PULLING AT A SLOW UNIFORM MAY ROTATE, VIBRATE, OR TAP THE CASING TO FACILITATE EXTRACTION. ROTATING THE CASING MAY TWIST THE REINFORCING CAGE, SO ONLY ROTATE THE CASING ENOUGH TO

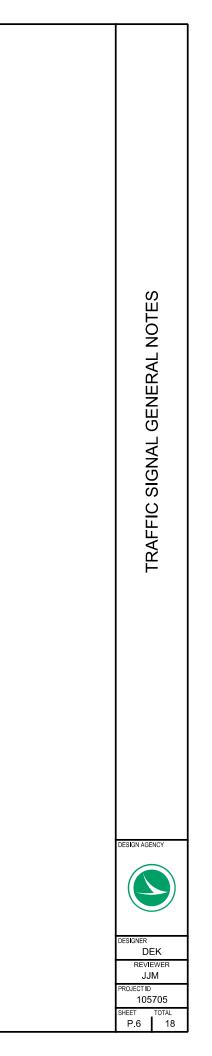
# GET II WASTACK

WOO-795-2.39 STA 126+98.41, 28.49' LT:

FOLLOW ALL REQUIREMENTS OF TC-21.21 EXCEPT THE FOLLOWING:

REVISIONS TO PLAN NOTE 8: THE LENGTH WAS ALREADY ADJUSTED FOR THE EXISTING SLOPE IN THIS NOTE. SET THE TOP OF THE FOUNDATION 2 INCHES ABOVE THE EXISTING SURFACE ON THE HIGH SIDE OF THE SLOPE. THE MINIMUM 8 INCH FORM DEPTH WILL NEED TO BE ADJUSTED IN THE FIELD BY THE CONTRACTOR TO ACCOMMODATE THE LOW SIDE OF THE SLOPE. THE BURIED DEPTH OF THE FORM SHALL BE A MINIMUM OF 8 INCHES BELOW THE GROUND SURFACE AT THE TIME OF POURING THE FOUNDATION.

D(FEET) = 16



# ITEM 614 MAINTAINING TRAFFIC

IN ADDITION TO ITEM 614 MAINTAINING TRAFFIC, IN THE CON-STRUCTION AND MATERIAL SPECIFICATIONS HANDBOOK. THE FOLLOWING SHALL APPLY:

THE CONSTRUCTION WORK NOTED HEREIN SHALL BE PERFORMED WHILE TRAFFIC IS MAINTAINED. THE MAINTENANCE OF TRAFFIC SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. NO TRAF-FIC CONTROL ASSISTANCE OTHER THAN TECHNICAL GUIDANCE WILL BE PROVIDED BY THE STATE. ALL PROPOSED WORK SHALL BE PERFORMED ON THE SHOULDER IF POSSIBLE.

THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE TRAFFIC CONTROL IN ACCORDANCE WITH THE "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" FOR STREETS AND HIGHWAYS (OMUTCD).

THE CONTRACTOR SHALL NOTIFY THE ENGINEER, THE RESPONSIBLE SAFETY ENFORCEMENT AGENCIES. AND THE OHIO DEPARTMENT OF TRANSPORTATION, DISTRICT 2 PUBLIC INFORMATION OFFICER, (419) 373-4428 NOT LESS THAN 24 HOURS PRIOR TO A SCHEDULED DISRUPTION OF TRAFFIC.

THE CONTRACTOR SHALL NOTIFY THE ODOT PERMIT OFFICE 14 DAYS PRIOR TO ANY MAINLINE TRAFFIC STOPPAGE (419-373-4414).

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C&MS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC.

## WOO-795-2.39

IT IS ANTICIPATED THAT MOST WORK WILL BE PERFORMED WITH SHOULDER CLOSURES. IF A LANE CLOSURE IS REQUIRED, THEN A MINIMUM OF 2 THROUGH LANES, ALL TURN LANES, AND ALL RAMP LANES SHALL BE OPEN TO TRAFFIC FROM 6:30AM TO 8:30AM & 3:00PM TO 6:00PM DAILY MONDAY THROUGH FRIDAY.

## HOLIDAY CLOSURES

NO WORK SHALL BE PERFORMED AND ALL EXISTING LANES SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLI-DAYS OR EVENTS:

CHRISTMAS NEW YEARS EASTER MEMORIAL DAY FOURTH OF JULY LABOR DAY THANKSGIVING

THE PERIOD OF TIME THAT THE LANES ARE TO BE OPEN DEPENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY OR EVENT FALLS. THE FOLLOWING SCHEDULE SHALL BE USED TO DETERMINE THIS PERIOD:

DAY OF TIME ALL LANES MUST BE OPEN TO TRAFFIC THE WEEK

SUNDAY 12:00 PM FRIDAY THROUGH 12:00 PM MONDAY MONDA Y 12:00 PM FRIDAY THROUGH 12:00 PM TUESDAY TUESDAY 12:00 PM MONDAY THROUGH 12:00 PM WEDNESDAY WEDNESDAY 12:00 PM TUESDAY THROUGH 12:00 PM THURSDAY THURSDAY 12:00 PM WEDNESDAY THROUGH 12:00 PM MONDAY FRIDAY 12:00 PM THURSDAY THROUGH 12:00 PM MONDAY SATURDAY 12:00 PM FRIDAY THROUGH 12:00 PM MONDAY NO EXTENSIONS OF TIME SHALL BE GRANTED FOR DELAYS IN MATERIAL DELIVERIES, UNLESS SUCH DELAYS ARE INDUSTRYWIDE, OR FOR LABOR STRIKES, UNLESS SUCH STRIKES ARE AREAWIDE.

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIRE-MENTS, THE CONTRACTOR SHALL BE ASSESSED LIQUIDATED DAMAGES IN ACCORDANCE WITH 108.07.

# ITEM 614. LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS

USE OF LAW ENFORCEMENT OFFICERS (LEOS) BY CONTRACTORS OTHER THAN THE USES SPECIFIED BELOW WILL NOT BE PERMITTED AT PROJECT COST. LEOS SHOULD NOT BE USED WHERE THE OMUTCD INTENDS THAT FLAGGERS BE USED.

IN ADDITION TO THE REQUIREMENTS OF C&MS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHALL BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS:

DURING THE ENTIRE ADVANCE PREPARATION AND CLOSURE SEQUENCE WHERE COMPLETE BLOCKAGE OF TRAFFIC IS REQUIRED

DURING A TRAFFIC SIGNAL INSTALLATION WHEN IMPACTING THE NORMAL FUNCTION OF THE SIGNAL OR THE FLOW OF TRAFFIC, OR WHEN TRAFFIC NEEDS TO BE DIRECTED THROUGH AN ENERGIZED TRAFFIC SIGNAL CONTRARY TO THE SIGNAL DISPLAY (E.G., DIRECTING MOTORISTS THROUGH A RED LIGHT).

IN ADDITION TO THE REQUIREMENT OF C&MS 614 AND THE OMUTCD. A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHOULD BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS AS APPROVED BY THE ENGINEER:

FOR LANE CLOSURES: DURING INITIAL SET-UP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED FOR LONG-TERM LANE CLOSURES/SHIFTS (FOR THE FIRST AND LAST DAY OF MAJOR CHANGES IN TRAFFIC CONTROL SETUP).

FOR OPERATIONS WITHOUT POSITIVE PROTECTION OCCURRING WITHIN 10 FEET OF AN OPEN TRAVELED LANE THAT MEET ALL OF THE FOLLOWING CRITERIA: ON A MULTI-LANE DIVIDED INTERSTATE. OTHER FREEWAY OR EXPRESSWAY; AND AN AUTHORIZED SPEED LIMIT OF 45 MPH OR GREATER THAT IS IN EFFECT AT THE TIME OF THE OPERATION; AND AADT OF 50,000 (OR AADT OF 30,000 WITH 25% OR

HIGHER PERCENT TRUCKS)

"WITHOUT POSITIVE PROTECTION" MEANS USE OF DRUMS, CONES, SHADOW VEHICLE, ETC, WITHOUT PROTECTION FROM PORTABLE BARRIER OR OTHER RIGID BARRIER ALONG THE WORK AREA. THIS PHRASE DOES NOT APPLY TO CASES WHERE POSITIVE PROTECTION IS REQUIRED. MOBILE OPERATIONS ARE REGARDED AS "WITHOUT POSITIVE PROTECTION". FOR WORK ZONES USING A COMBINATION OF BARRIER AND TEMPORARY TRAFFIC CONTROL DEVICES (CONES, DRUMS, ETC), THE DESIGNATION SHALL BE BASED UPON THE TYPE OF DEVICES USED IN THE AREA THAT WORKERS ARE LOCATED.

IF MULTIPLE ACTIVE LOCALIZED QUALIFYING WORK AREAS OCCUR WITHOUT POSITIVE PROTECTION, PER MAINLINE TRAFFIC DIRECTION PROVIDE A UNIFORMED LEO AND OFFICIAL PATROL CAR IN ADVANCE OF: THE FIRST ACTIVE WORK AREA THAT DRIVERS WILL ENCOUNTER: OR

THE ACTIVE WORK AREA LATERALLY CLOSEST TO THE OPEN TRAVELED LANE: OR OTHER LOCATION AS APPROVED BY THE ENGINEER. THE UNIFORMED LEO AND OFFICIAL PATROL CAR MAY RELOCATE AMONG THE LISTED LOCATIONS AS APPROPRIATE AS THE OPERATIONS PROCEED IN THE LOCALIZED QUALIFYING WORK AREAS.

IN GENERAL, LEOS SHOULD BE POSITIONED IN ADVANCE OF AND ON THE SAME SIDE AS THE LANE RESTRICTION (OR AT THE POINT OF ROAD CLOSURE), AND TO MANUALLY CONTROL TRAFFIC MOVEMENTS THROUGH SIGNALIZED INTERSECTIONS IN WORK ZONES

LEOS SHOULD NOT FORGO THEIR TRAFFIC CONTROL RESPONSIBILITIES TO APPREHEND MOTORISTS FOR ROUTINE TRAFFIC VIOLATIONS. HOWEVER, IF A MOTORIST'S ACTIONS ARE CONSIDERED TO BE RECKLESS, THEN PURSUIT OF THE MOTORIST IS APPROPRIATE.

THE LEOS WORK AT THE DIRECTION OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE SERVICES OF THE LEOS WITH THE APPROPRIATE AGENCIES AND COMMUNICATING THE INTENTIONS OF THE PLANS WITH RESPECT TO DUTIES OF THE LEOS. THE ENGINEER SHALL HAVE FINAL CONTROL OVER THE LEOS' DUTIES AND PLACEMENT, AND WILL RESOLVE ANY ISSUES THAT MAY ARISE BETWEEN THE TWO PARTIES.

ENSURE PROVIDED LEOS HAVE BEEN TRAINED APPROPRIATE TO THE JOB DECISIONS THEY ARE REQUIRED TO MAKE WHILE ON THE PROJECT, IN ACCORDANCE WITH C&MS 614.03.

THE LEO SHALL REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT. IN ORDER TO RECEIVE INSTRUCTIONS REGARDING SPECIFIC WORK ASSIGNMENTS DURING HIS/HER SHIFT. THE LEO IS EXPECTED TO STAY AT THE PROJECT SITE FOR THE ENTIRE DURATION OF HIS/HER SHIFT. THE LEO SHALL REPORT TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT. SHOULD IT BE NECESSARY TO LEAVE THE PROJECT SITE. THE LEO SHALL NOTIFY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE THE LEO WITH A TWO-WAY COMMUNICATION DEVICE THAT SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT.

LEOS (WITH PATROL CAR) REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE 40 HOURS

THE HOURS PAID SHALL INCLUDE ANY MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED.

ANY ADDITIONAL COSTS (ADMINISTRATIVE OR OTHERWISE) INCURRED BY THE CONTRACTOR TO OBTAIN THE SERVICES OF A LEO ARE INCLUDED WITH THE BID UNIT PRICE FOR ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE.

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2. NEW OR REUSED SIGNAL/FLASHER INSTALLATIONS OR DEVICES, INSTALLED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF THESE FROM THE TIME OF INSTALLATION UNTIL THE WORK IS ACCEPTED.

THE CONTRACTOR SHALL CORRECT AS QUICKLY AS POSSIBLE ALL OUTAGES OR MALFUNCTIONS. HE SHALL PROVIDE THE MAINTAINING AGENCY AND THE ENGINEER SUCH ADDRESSES AND PHONE NUMBERS WHERE HIS MAINTENANCE FORCES CAN BE CONTACTED. THE CONTRACTOR SHALL PROVIDE ONE OR MORE PERSONS TO RECEIVE ALL CALLS AND DISPATCH THE NECESSARY MAINTENANCE FORCES TO CORRECT OUTAGES. SUCH A PERSON OR PERSONS MAY BE USED TO PERFORM OTHER DUTIES AS LONG AS PROMPT ATTENTION IS GIVEN TO THESE CALLS AND A PERSON IS READILY AVAILABLE CONTINUOUSLY 24 HOURS A DAY, 7 DAYS A WEEK. ALL LAMP OUTAGES, CABLE OUTAGES, ELECTRICAL FAILURES, EQUIPMENT MALFUNCTIONS AND MISALIGNED SIGNAL HEADS SHALL BE CORRECTED TO THE SATISFACTION OF THE ENGINEER WITH THE SIGNAL BACK TO SERVICE WITHIN FOUR HOURS AFTER THE CONTRACTOR HAS BEEN NOTIFIED OF THE OUTAGE.

THE CONTRACTOR SHALL MAKE SERVICES WITH: WOOD COUNTY	ARRANGEMENTS FOR THESE	
STATE HIGHWAY PATROL 12891 MIDDLETON PIKE BOWLING GREEN, OH 43402 419–373–6803	WOOD COUNTY SHERIFF 1960 EAST GYPSY LANE ROAD BOWLING GREEN, OH 43402 419-354-9001	
SANDUSKY COUNTY	4	
STATE HIGHWAY PATROL 511 FREMONT AVE. SANDUSKY, OH 44870 419-865-5544	SANDUSKY COUNTY SHERIFF 2323 COUNTRYSIDE DR. FREMONT, OH 43420 419-332-2613	
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# ITEM 614, MAINTAINING TRAFFIC (LANE CLOSURE/ REDUCTION REQUIRED

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

# MAINTENANCE OF TRAFFIC SIGNAL/FLASHER INSTALLATION

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRAFFIC SIGNAL/FLASHER INSTALLATIONS WITHIN THE PROJECT UNDER THE FOLLOWING CONDITIONS:

1. EXISTING SIGNAL/FLASHER INSTALLATIONS WHICH THE PLANS REQUIRE THE CONTRACTOR TO ADJUST. MODIFY. ADD ONTO OR REMOVE, OR WHICH THE CONTRACTOR ACTUALLY ADJUSTS, MODIFIES OR OTHERWISE DISTURBS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ENTIRE INSTALLATION (AT AN INTERSECTION) FROM THE TIME HIS OPERATIONS FIRST DISTURB THE INSTALLATION UNTIL THE INSTALLATION HAS BEEN SUBSEQUENTLY REMOVED OR MODIFIED AND THE WORK IS ACCEPTED.



IN THE EVENT NEW SIGNALS ARE DAMAGED PRIOR TO ACCEPTANCE, ALL DAMAGED EQUIPMENT EXCEPT POLES AND CONTROL EQUIPMENT SHALL BE REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER WITH THE SIGNAL BACK IN SERVICE WITHIN 8 HOURS AFTER THE CONTRACTOR'S NOTIFICATION OF THE OUTAGE. THE CONTRACTOR SHALL ARRANGE FOR FULL TRAFFIC CONTROL UNTIL THE SIGNAL IS BACK IN OPERATION. IF POLES AND/OR CONTROL EQUIPMENT ARE DAMAGED AND MUST BE REPLACED, THE CONTRACTOR SHALL MAKE TEMPORARY REPAIRS AS NECESSARY TO BRING THE SIGNAL BACK INTO FULL OPERATION WITHIN THE ALLOWED 8-HOUR PERIOD, AND SHALL MAKE PERMANENT REPAIRS OR REPLACEMENT AS SOON THEREAFTER AS POSSIBLE.

NONE OF THE ABOVE SHALL BE CONSTRUED AS COLLECTIVE OR CONSECUTIVE OUTAGE TIME PERIODS AT ANY ONE LOCATION. THAT IS, WHERE MORE THAN ONE OUTAGE OCCURS AT ANY ONE LOCATION THEN THE ALLOTTED TIME LIMIT SHALL BE FOR THE WORST SINGLE OUTAGE.

WHERE OUTAGES ARE THE DIRECT RESULT OF A VEHICLE ACCIDENT THE RESPONSE OF THE CONTRACTOR SHALL BE AS OUTLINED ABOVE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COLLECTION OF ANY COMPENSATION FOR THIS WORK FROM THOSE PARTIES RESPONSIBLE FOR THE DAMAGE.

WHERE THE CONTRACTOR HAS FAILED TO, OR CANNOT RESPOND TO, AN OUTAGE OR SIGNAL EQUIPMENT MALFUNCTION, AT THESE LOCATIONS WITHIN HIS RESPONSIBILITY, WITHIN PERIODS AS SPECIFIED ABOVE, THE ENGINEER MAY INVOKE THE PROVISIONS OF SECTION 105.15 AND ANY SUBSEQUENT BILLINGS TO THE STATE FOR POLICE SERVICES AND

MAINTENANCE SERVICES BY CITY FORCES SHALL BE DEDUCTED FROM MONIES DUE OR TO BECOME DUE THE CONTRACTOR IN ACCORDANCE WITH PROVISIONS OF SECTION 105.15.

THE CONTRACTOR SHALL PROVIDE THE MAINTENANCE SERVICE ENTIRELY WITH HIS FORCES OR HE MAY CHOOSE TO ENTER INTO A COOPERATIVE UNDERSTANDING WITH THE LOCAL MAINTAINING AGENCY TO PROVIDE THE MAINTENANCE. THE CONTRACTOR SHALL INFORM THE ENGINEER, IN WRITING, OF THE MAINTENANCE METHOD SELECTED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ANY TRAFFIC SIGNAL COMPONENTS REQUIRED TO BE HANDLED DURING THE RELOCATION OF POLES AND REVISIONS TO THE SIGNAL SYSTEM. WHEN A TRAFFIC SIGNAL MUST BE TAKEN OUT OF SERVICE BY THE CONTRACTOR, DUE TO CONST-RUCTION PROVEDURES, THIS OUTAGE SHALL NOT EXCEED 8 HOURS AND SHALL NOT INCLUDE THE HOURS OF 7AM TO 7PM. ANY SIGNAL REDUNTERSECTION WHERE THE SIGNAL SOUT OF SERVICE DUE TO CONSTRUCTION PROCEDURES, OR DUE TO AN OUTAGE OR MALFUNCTION OF EQUIPMENT AS DESCRIBED ABOVE.

ANY VEHICULAR TRAFFIC SIGNAL HEAD, EITHER NEW OR EXISTING WHICH WILL BE OUT OF OPERATION SHALL BE COVERED IN THE MANNER DESCRIBED IN 632.25. THE CONTRACTOR SHALL MAINTAIN COMPLETE RECORDS OF MALFUNCTIONS INCLUDING:

1. TIME OF NOTIFICATION OF MALFUNCTION;

2. TIME OF WORK CREWS ARRIVAL TO CORRECT THE MALFUNCTION;

3. ACTIONS TAKEN TO CORRECT THE MALFUNCTION, INCLUDING A LIST OF PARTS REPAIRED OR REPLACED;

4. A DIAGNOSIS OF REASON FOR THE MALFUNCTION AND PROBABILITY OF REOCCURRENCE;

5. TIME OF COMPLETION OF THE REPAIR AND SYSTEM RESTORED TO FULL SERVICE.

A COPY OF THESE RECORDS SHALL BE PROVIDED TO THE ENGINEER WITHIN THREE (3) WORKING DAYS FOLLOWING COMPLETION OF EACH REPAIR.

ALL COSTS RESULTING FROM THE ABOVE REQUIREMENTS SHALL BE CONSIDERED TO BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 614, MAINTAINING TRAFFIC.

## NOTIFICATION OF TRAFFIC RESTRICTIONS

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM THE SPECIAL HAULING PERMITS SECTION (HAULING.PERMITS@DOT.OHIO.GOV) AND THE DISTRICT PUBLIC INFORMATION OFFICE (PIO). THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE, BUT IS NOT LIMITED TO, ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMUM WIDTH OF DRIVABLE PAVEMENT, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

NOTIFICATION OF TRAFFIC RESTRICTIONS TIME TABLE ITEM DURATION OF NOTICE DUE TO CLOSURE PERMITS & PIO

RAMP & >= 2 WEEKS 21 CALENDAR DAYS ROAD CLOSURES PRIOR TO CLOSURE

> 12 HOURS 14 CALENDAR DAYS & < 2 WEEKS PRIOR TO CLOSURE

<= 12 HOURS 4 CALENDAR DAYS PRIOR TO CLOSURE

LANE >= 2 WEEKS 14 CALENDAR DAYS CLOSURES & PRIOR TO CLOSURE RESTRICTIONS < 2 WEEKS 5 BUSINESS DAYS PRIOR TO CLOSURE

START OF N/A 14 CALENDAR DAYS CONSTRUCTION & PRIOR TO TRAFFIC PATTERN IMPLEMENTATION CHANGES ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTIFICATION TIME TABLE.

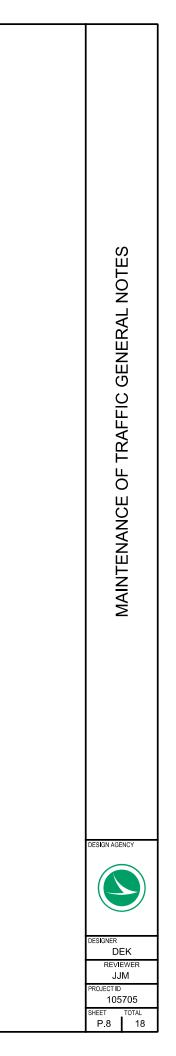
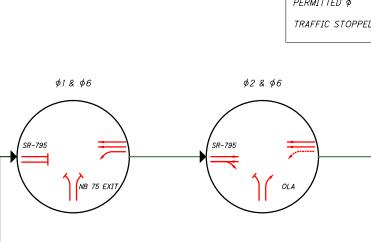


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New year	20		
New York     Image: Construction of the second sec	057(	2 1 1 632 90101 2 EACH REMOVAL OF TRAFFIC SIGNAL IN	ISTALLATION, AS P
Number of the second	ets/1		
Image: Construction of the construction of	\$\She		
Image: Construction of the construction of	Buals		
University     Image: Construction of the construc	jg/Sig		R PLAN
University     Univers	-ue		
New year     Image: Construction of the second sec	ugi	Z Z 333 /1000 Z EACH FLASHER CONTROLLER	
New year     Image: Construction of the second sec	100-E		
New off of the second	705V		
Main of the second s	kase		
NO PUBLICITY     NO PUBLICITY<	D02		
Image: Normal base in the image: Normal base inderic to the image: Normal base in the image: Normal	t 02/		A A A A A A A A A A A A A A A A A A A
Image: state of the state	0 AM		MAINTEN
Image: Normal sector of the	ts o	40 40 24 16 614 1111 40 HOUR LAW ENFORCEMENT OFFICER W	TH PATBOL GAR F
Verticity			
LS   LS   614   11000   LS   MAINTAINING TRAFF     Image: Strategy of the strate	tive		IN
APERSIZE: 1/X1 (in) anticipation of the construction of the constr	023 .		
A-D-D-C-Location     A-D-C-Location     A-D-C	11/2(		3 AND SURVEYING
A-D-D-C-Location     A-D-C-Location     A-D-C	E: 4/	LS LS 624 10000 LS MOBILIZATION	
APERSIZE: 1/X1 (in) anticipation of the construction of the constr			
Normalize Norma			
Image: Strate 1 and the strategy of the strat	- 17.		
	SIZE		
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	SEE	
DESCRIPTION	SHEET	
	NO.	
ROSION CONTROL		
RAFFIC SIGNALS		
		GENERAL SUMMARY
		AP 1
0" X 60", AS PER PLAN	6	5
2" LENS, 1-WAY, POLYCARBONATE, BLACK	6	S N
2" LENS, 1-WAY, POLYCARBONATE, BLACK		
		2
		Ш Ц
		Z
	6	
LE, WITH MAST ARMS TC-81.22 DESIGN 12 AND DESIGN 4		
S PER PLAN	4	
	4	
	9 9	
	9	
WATT, AS PER PLAN	4	
)	5	
7	5	
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	6	
R FOR ASSISTANCE, AS PER PLAN	7	
INCIDENTALS		
		DESIGN AGENCY
ING		
		DESIGNER
		DEK
		REVIEWER JJM 12-08-22
		PROJECT ID
		105705
		SHEET TOTAL P.10 18
		1.10 10

# SIGNAL TIMING CHART (TEM FORM 496-3)

	INTE	RSECTION:	WOO-79	5 & I-75 E	(NB Ram	ps)					
	MAINTAINING	GAGENCY:			•						
0.7			DUA	LENTRY:	YES	PHA	SES: 2 & 6				
<u>31</u>	<u>ART UP</u>		RES	IN RED:		RING 1	- RING 2 -				
START IN:	ALL-RED F	LASH	OVERLA	P				в	с	D	
TIME FOR: FLASH , ALI	_ RED (SEC.):	9, 6	OVERLA	P			A	Б			
FIRST PHASE(S):	2&6						NBR 1				
COLOR DISPLAYED:	GREEI	PHASES	i			& 8	-	-	-		
INTERVAL OR FEATURI	E				CONT	ROLLER	MOVEMEN	IT NO.			
INTERSECTION MOVEN	IENT (PHASE)		1	2	3	4	5	6	7	8	
DIRECTION			7	20	-	-	-	20	-	10	
MINIMUM GREEN (INITI	AL)	(SEC.)	-	-	-	-	-	-	-	-	
ADDED INITIAL	*(SEC./A	CTUATION)	-	-	-	-	-	-	-	-	
MAXIMUM INITIAL		*(SEC.)	-	-	-	-	-	-	-	-	
PASSAGE TIME (PRESE	ET GAP)	(SEC.)	3	3	-	-	-	3	-	3	
TIME BEFORE REDUCT	ION	*(SEC.)	-	-	-	-	-	-	-	-	
MINIMUM GAP		*(SEC.)	-	-	-	-	-	-	-	-	
TIME TO REDUCE		*(SEC.)	-	-	-	-	-	-	-	-	
MAXIMUM GREEN I		(SEC.)	20	60	-	-	-	60	-	30	
MAXIMUM GREEN II		(SEC.)	20	60	-	-	-	60	-	30	
YELLOW CHANGE		(SEC.)	5	6	-	-	-	6	-	√ 3.8 √	
ALL RED CLEARANCE		(SEC.)	1.4	1	-	-	-	1	-		
DELAYED GREEN (LPI)		(SEC.)	-	-	-	-	-	-	-	-	
FLASHING YELLOW AR	ROW DELAY^	(SEC.)	-	-	-	-	-	-	-	-	
WALK		(SEC.)	-	-	-	-	-	-	-	-	
PEDESTRIAN CLEARAI	NCE	(SEC.)	-	-	-	-	-	-	-	-	
	MAXIMUM	(ON/OFF)	NO	NO	-	-	-	NO	-	NO	
RECALL	MINIMUM	(ON/OFF)	NO	YES	-	-	-	YES	-	NO	
	PEDESTRIAN	(ON/OFF)	-	-	-	-	-	-	-	-	
MEMORY		(ON/OFF)	NO	NO	-	-	-	NO	-	NO	

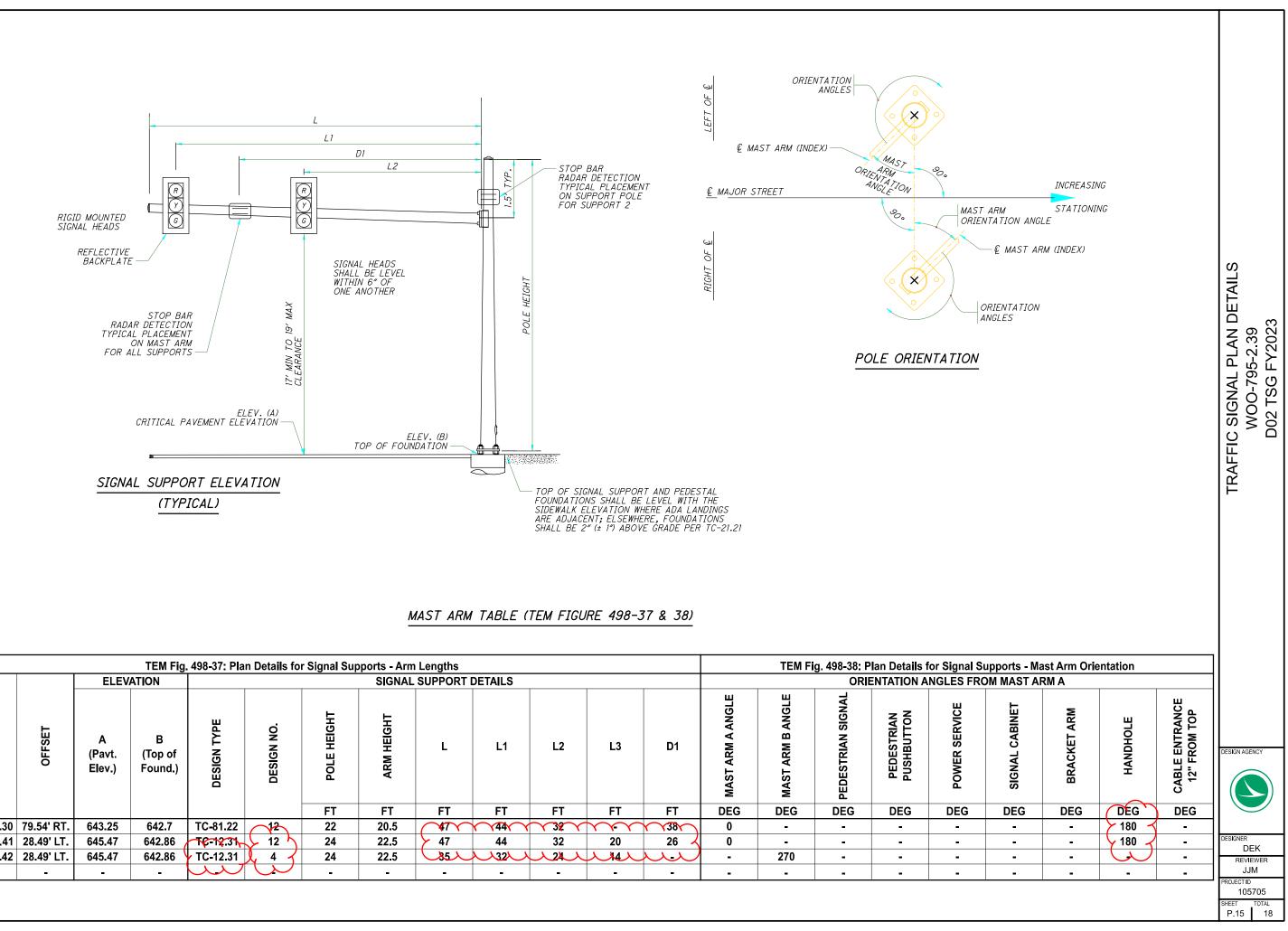


# NOTES:

- ALL MOVEMENTS SHALL BE ACTUATED. THE PRIMARY THRU MOVEMENT SHOULD HAVE MIN RECALL ACTIVE TO REST IN GREEN.
- RADAR DETECTION UNITS FOR DILEMMA ZONE DETECTION SHALL PLACE A CONSTANT CALL TO THE CONTROLLER WHEN VEHICLES TRAVEL TIMES TO THE STOP BAR ARE BETWEEN 2.5 AND 6 SECONDS. SPEED TRIGGER SHALL BE SET FOR VEHICLES TRAVELING 35 MPH AND GREATER.
- RADAR SHALL HAVE QUEUE DETECTION CONFIGURED AND A ZONE PLACED AT 100-200 FEET FROM STOP BAR FOR SLOW MOVING VEHICLE EXTENSIONS. SPEED TRIGGER SHALL BE SET AT 1-35 MPH.
- ALL DETECTOR DELAYS SHALL BE PLACED IN THE CONTROLLER.

				PR PE	IG DIAGR. LEGEN ROTECTED Ø ERMITTED Ø RAFFIC STOPP.		PICAL)		
	¢1 & ¢6	7	SR-795	¢2 & ¢6		SR	¢8		TRAFFIC SIGNAL PLAN DETAILS WOO-795-2.39
									AFFIC SIGN
				DETECTIO		<u>_</u>			TRAFFIC SIGN
DETECTION ZONE	MOVEMENT	PULSE OR PRESENCE		DETECTIC DETECTIC IN CONTROLLER (SEC.)		DETECTOR NO.	PURPOSE	DETECTION ZONE LENGTH (FT)	TRAFFIC SIGN
1A	WBLEFT	BULLE OR PRESENCE	ASSOCIATED PHASE 1	DELAY PROGRAMMED IN CONTROLLER (SEC.) 0	extension Programmed IN CONTROLLER (SEC.)	O DETECTOR NO.	CALL/EXTEND PHASE 1	50	TRAFFIC SIGN WOO
	WB LEFT EB THRU	BALLESENCE PRESENCE PRESENCE	ASSOCIATED PHASE	DELAY PROGRAMMED IN CONTROLLER (SEC.)	EXTENSION PROGRAMMED IN CONTROLLER (SEC.)	0 DETECTOR NO.	CALL/EXTEND PHASE 1 EXTEND PHASE 2		TRAFFIC SIGN
1A 2A 6A	WBLEFT	BULLE OR PRESENCE	Ra BHASE 1 2	DELAY PROGRAMMED DELAY PROGRAMMED IN CONTROLLER (SEC.) 0 0	ion Chart EXTENSION PROGRAMMED IN CONTROLLER (SEC.) 0 0	O DETECTOR NO.	CALL/EXTEND PHASE 1	50 700	TRAFFIC SIGN
1A 2A	WB LEFT EB THRU WB THRU	PRESENCE PRESENCE PRESENCE PRESENCE	Ra Associated PHASE	DELAY PROGRAMMED DELAY PROGRAMMED IN CONTROLLER (SEC.) 0 0 0	ion Chart EXTENSION PROGRAMMED IN CONTROLLER (SEC.) 0 0 0	0 DETECTOR NO.	CALL/EXTEND PHASE 1 EXTEND PHASE 2 EXTEND PHASE 6	50 700 700	TRAFFIC SIGN WOO

105705 SHEET TOTAL P.13 18

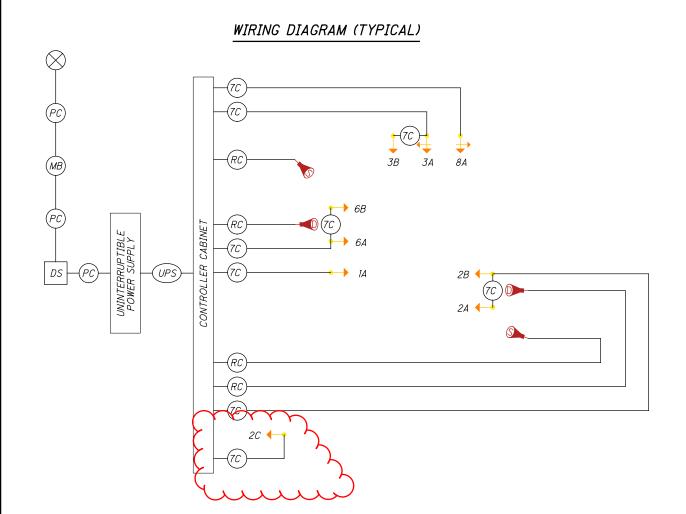


t 0																				
roje					TEM Fig	. 498-37: Pla	n Details fo	r Signal Sup	oports - Arm	Lengths						TEM Fi	g. 498-38: P	lan Details f		
ve Ve		ELEVATION					SIGNAL SUPPORT DETAILS										ORIENTATION A			
10dot-pw-02/Documents/01Act	SUPPORT NO.	STATION	OFFSET	A (Pavt. Elev.)	B (Top of Found.)	DESIGN TYPE	DESIGN NO.	POLE HEIGHT	ARM HEIGHT	L	L1	L2	L3	D1	MAST ARM A ANGLE	MAST ARM B ANGLE	PEDESTRIAN SIGNAL	<b>PEDESTRIAN</b> PUSHBUTTON		
n:of								FT	FT	FT	FT	FT	FT	FT	DEG	DEG	DEG	DEG		
y.cc	SP-1	127+74.30	79.54' RT.	643.25	642.7	TC-81.22	12	22	20.5		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~34~~	$\sim \sim \sim$	~38~	0	-	-	=		
en tle	SP-2 A	126+98.41	28.49' LT.	645.47	642.86	TC-12.31	5 12	24	22.5	<b>4</b> 7	44	32	20	26 🗸	0	-	-	-		
ow.b∈	SP-2 B	126+98.42	28.49' LT.	645.47	642.86	TC-12.31	4 4	24	22.5	35	<u> 32</u>	124	14r	$\mathcal{L}$	-	270		-		
lot-f	-	-	-	-	-	$\mu$	$\mathbf{U}$	-	-	-	-	-	-	-	-	-	-	-		
X						-														

USER: dkasem TIME: 8:49:07 AM DATE: 4/II/2023 D02-TSG-FY2023 PAPERSIZE: 17xII (In.) EL: Sheet

MODE

# FIELD WIRING HOOK-UP CHART (TEM FORM 496-16)



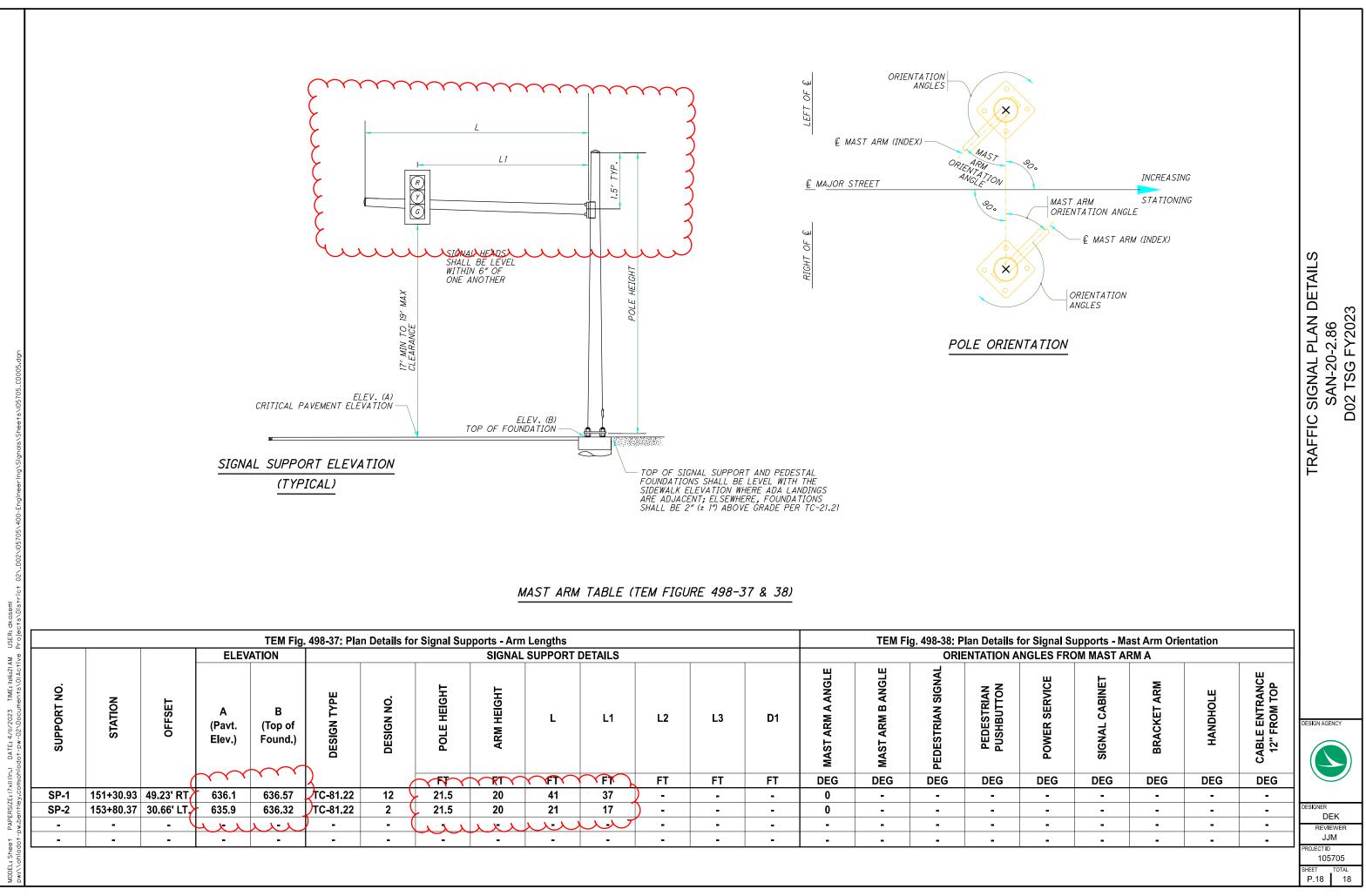
SIGNAL HEAD	INDICATION	FIELD TERMINAL	FLASH	SIGNAL HEAD	INDICATION	FIELD TERMINAL	FLASH			
	R	6R			-	-				
1A	Y	6Y		-	-	-				
	G	6G	R		-	-	-			
(WB LT)	<y< td=""><td>1Y</td><td></td><td>-</td><td>-</td><td></td><td></td></y<>	1Y		-	-					
	<g< td=""><td>1G</td><td></td><td></td><td>-</td><td>-</td><td></td></g<>	1G			-	-				
	R	2R			-	-				
2A, B	Y	2Y	R	-	-	-	-			
	G	2G		-	-	-				
(EB)	-	-			-	-				
	-	-		-	-	-				
	R	8R		-	-	-	-			
3A	Y	8Y	R		-	-				
	G	8G			-	-				
(NB LT)	<y< td=""><td>3Y</td><td colspan="8">PEDESTRIAN MOVEMENTS</td></y<>	3Y		PEDESTRIAN MOVEMENTS						
	<g< td=""><td>3G</td><td></td><td>-</td><td>-</td><td>-</td><td></td></g<>	3G		-	-	-				
3B	<r< td=""><td>3R</td><td></td><td>-</td><td>-</td><td>-</td><td>-</td></r<>	3R		-	-	-	-			
30	<y< td=""><td>3Y</td><td>R</td><td>-</td><td>-</td><td>-</td><td></td></y<>	3Y	R	-	-	-				
(NB LT)	<g< td=""><td>3G</td><td></td><td>-</td><td>-</td><td>-</td><td>-</td></g<>	3G		-	-	-	-			
	R	8R		-	-	-				
8A	Y	8Y		-	-	-	-			
	G	8G	R	-	-	-				
(NB RT)	Y>	3Y		-	-	-	-			
	G>	3G			0\	/ERLAPS				
6A	R	6R		OLA	Y>	8Y	ОЛТ			
0A	Y	6Y	R		G>	8G	001			
WB	G	6G			-	-				
	LS = L(	DAD SWITCH		1 -	-	-	-			

•‡•	5 SECTION VEHICULAR SIGNAL HEAD, I-WAY	•••	LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN
↔	3 section vehicular signal head, i-way		2/C NO. 16 AWG (LEAD-IN CABLE)
•‡	3 SECTION VEHICULAR SIGNAL HEAD, TURN ARROWS I-WAY	L	VEHICLE LOOP DETECTOR
L,	PEDESTRIAN SIGNAL HEAD		STGNAL CABLE, 5 CONDUCTOR, NO. 14 ANG
<b></b>	PEDESTRIAN PUSH BUTTON		SIGNAL CABLE, 7 CONDUCTOR, NO. M AWG
	DILEMMA ZONE RADAR DETECTION UNIT		RADAR DETECTION CABLE
	STOP BAR RADAR DETECTION UNIT	vc	VIDEO CAMERA CABLE
-	VIDEO DETECTION CAMERA		INTERCONNECT CABLE
	PTZ CAMERA		PHOTOELECTRIC CELL
-#*	ETHERNET RADIO	$-\otimes$ -	POWER SOURCE

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 4/11/2023 TIME: 8:49:15 AM USER: dkosem1 xw:\\\ohidadt-t-xy.bentley.com:onidadt-t-pw-02\Documents\01 Active Projects\Distri D02-TSG-FY2023

PC	POWER CABLE, 3 CONDUCTOR, NO. 6 AWG
SP 1	SIGNAL SUPPORT POLE NO
	METER BASE
	NO. X AWG DISTRIBUTION CABLE
	NO. XX AWG POLE & BRACKET CABLE
DS	DUAL LIGHTING/SIGNAL DISCONNECT SWITCH
FC	FLASHER CABINET
UPS	UNINTERRUPTIBLE POWER SUPPLY CABLE

TRAFFIC SIGNAL PLAN DETAILS WOO-795-2.39 D02 TSG FY2023 ESIGN AGENCY ESIGNER DEK JJM ROJECT ID 105705 SHEET TOTAL P.16 18



				TEM Fig.	498-37: Pla	n Details fo	or Signal Sup	oports - Arm	Lengths						TEM F	g 498-38 F	lan Details
			ELEV	ATION	SIGNAL SUPPORT DETAILS									ORIENTAT			
SUPPORT NO.	STATION	OFFSET	A (Pavt. Elev.)	B (Top of Found.)	DESIGN TYPE	DESIGN NO.	POLE HEIGHT	ARM HEIGHT	L	L1	L2	L3	D1	MAST ARM A ANGLE	MAST ARM B ANGLE	PEDESTRIAN SIGNAL	PEDESTRIAN PUSHBUTTON
		(		N N 1	λ					(FT)	FT	FT	FT	DEG	DEG	DEG	DEG
SP-1	151+30.93	49.23' RT	636.1	636.57	TC-81.22	12	21.5	20	41	37	) -	-	-	0	-	-	-
SP-2	153+80.37	30.66' LT	635.9	636.32	TC-81.22	2	21.5	20	21	17	) -	-	-	0	-	-	-
-	-	- (	ノノノ	بب	-	-	د د د ا	171	بربر	JJ	-	-	-	-	-	-	-
-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-

D02-TSG-FY2023