

# Request for Bid

**Deadline for Submittal: August 15, 2023 at 10:00 a.m.**

## **Project Description:**

The Following Bid covers all associated costs included in the work as described in the attached package.

The work shall consist of the installation of route shields for the US-10/US-127 interchange on both the NB and SB directions at the north end of Clare. Traffic will be maintained as described in the Maintaining Traffic section contained in this proposal.

## **JOB LOCATION**

US-127: Work on NB begins at NB Set 1 located 1500 feet south of Overhead with NB Set 2 following at 3400 feet south of NB Overhead. SB work begins with SB Set 1 located 1500 feet from SB Overhead 1 and is followed by SB Set 2 located 800 feet from SB Overhead 2.

Contractor \_\_\_\_\_

Address \_\_\_\_\_

Contact \_\_\_\_\_

Telephone Number \_\_\_\_\_

## **Bids must be delivered to:**

Clare County Road Commission

3900 E Mannsiding Rd

Harrison, MI 48625

Or email [ccrc@clarecrc.com](mailto:ccrc@clarecrc.com) in Subject "Sealed bid MDOT JOB 23-18001"

Please fill out and include this sheet with your bid when submitted.

Clare County Road Commission reserves the right to reject any bid that appears to be unqualified.

If you have any questions please contact Jason Potts (MDOT) at 989-737-0211 or Scott Badger (MDOT) at (989) 280-4057

**Total Bid Price (Complete):**

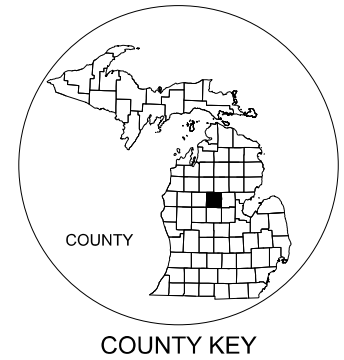
\_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

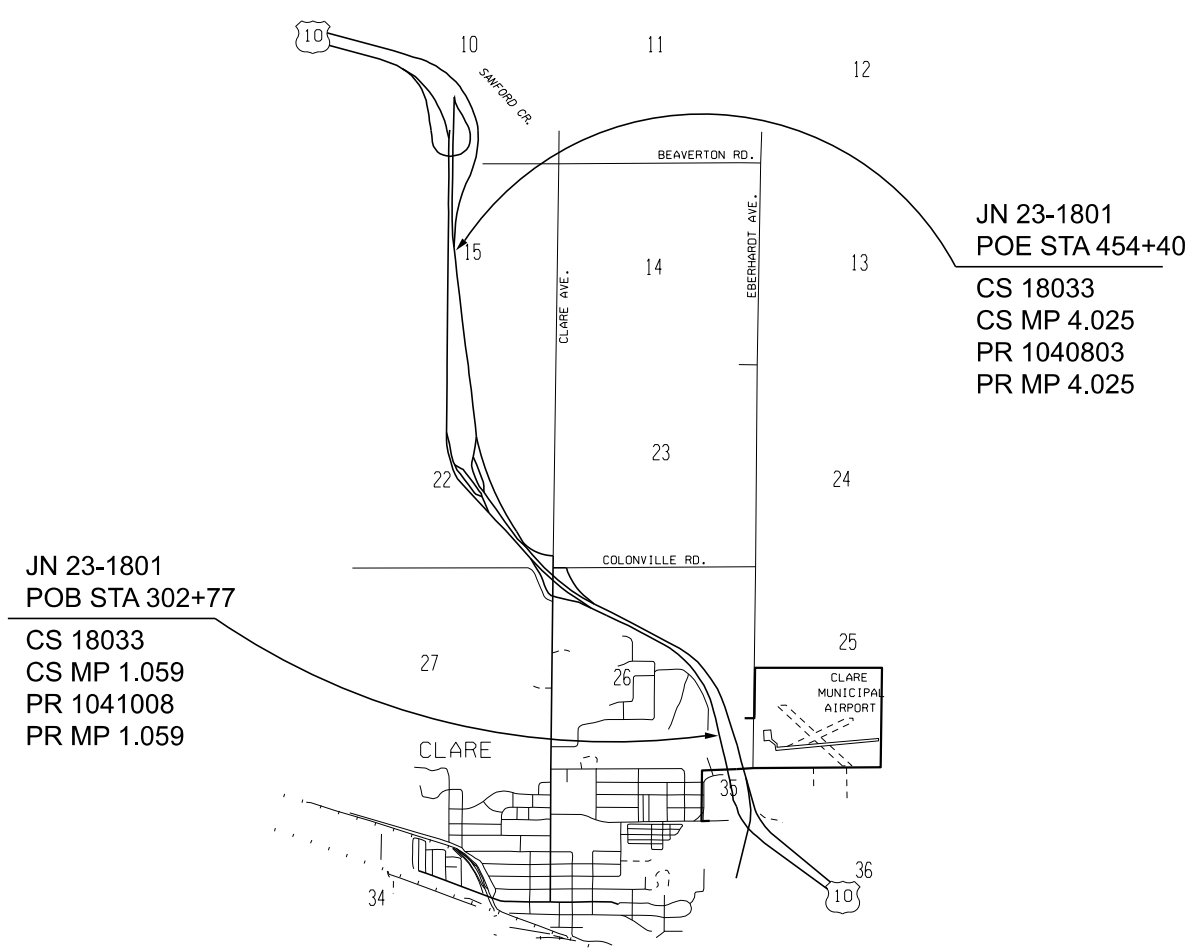
# MICHIGAN DEPARTMENT OF TRANSPORTATION

US-127  
CITY OF CLARE  
GRANT TOWNSHIP  
CLARE COUNTY



SECTION	CONTROL SEC	JOB NO.	FED AID PROJ
1	18033	23-1801	NO

ROAD	YEAR	TRAFFIC DATA			SPEED DATA		LIMITS
		ADT	DHV	COMM	DESIGNPOSTED	POB TO POE	
US-127	2022	19396	1490	12%	80	75	POB TO POE



<p>THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE DONE IN ACCORDANCE WITH THE MICHIGAN DEPARTMENT OF TRANSPORTATION 2020 STANDARD SPECIFICATIONS FOR CONSTRUCTION. PHYSICAL ROAD NUMBER (PR#) &amp; MILEPOST (MP) DATA ARE FROM MICHIGAN GEOGRAPHIC FRAMEWORK VERSION # .</p>		<p>MILES: CONTRACT FOR: ROUTE SHIELD INSTALLATION</p>	
<p>BRADLEY C. WIEFERICH, P.E. - DIRECTOR</p>			
	<p>DESIGN UNIT: KELLEY</p>	TSC: MOUNT PLEASANT	DATE: 07/19/23
	<p>CS: 18033</p>		DRAWING SHEET
<p>FILE:</p>	<p>JN: 23-1801</p>		SECT

# LOG OF PROJECT

Page 2 of 11

C.S. 18033  
J.N. 23-1801

## PROGRESS SCHEDULE

Work may begin immediately after receiving approval from MDOT and be completed by September 29<sup>th</sup>, 2023. Work must be completed within 6 consecutive workdays, weather dependent. The workdays do not include Saturday and Sunday. Notice must be provided to Jason Potts at 989-737-0211 seven (7) calendar days prior to beginning any work.

## JOB LOCATION

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CS 18033

P.O.B = C.S. Mile Point 1.059

P.O.E = C.S. Mile Point 4.025

P.O.B. Station = 302+77

P.O.E. Station = 454+40

## DESCRIPTION OF WORK

The work shall consist of the installation of route shields for the US-10/US-127 interchange on both the NB and SB directions at the north end of Clare.

Traffic will be maintained as described in the Maintaining Traffic section contained in this proposal.

## ESTIMATED QUANTITIES

**The quantities included in the summations below are approximate and for reference only. Contractor will be responsible for verifying quantities before bidding by site inspection and plan review.** If any major discrepancies are noted, contractor must contact Mike Loynes at (989) 621-0286.

**This project is a Maintenance funded project, which means that there will be absolutely no overpayment or extras. All material, labor and mobilization shall be included in the bid.**

MDOT will have the low bid reviewed and approved for funding. MDOT reserves the right to reject any bid that appears to be unqualified. Before award, MDOT may request a site and plan review meeting with the low bid contractor.

### **Items of Work (for information only)**

Preformed Thermo, US-127 Shield	8	Ea
Preformed Thermo, US-10 Shield	5	Ea

# LOG OF PROJECT

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C.S. 18033  
J.N. 23-1801

Channelizing Device, 42 inch, Fluorescent, Furn	50	Ea
Channelizing Device, 42 inch, Fluorescent, Oper	50	Ea
Lighted Arrow, Type C, Furn	2	Ea
Lighted Arrow, Type C, Oper	2	Ea
Minor Traf Devices	1	LSUM
Sign, Type B, Temp, Prismatic, Furn	468	Sft
Sign, Type B, Temp, Prismatic, Oper	468	Sft

## **MAINTAINING TRAFFIC**

Maintaining traffic will be accomplished with traffic shifts and traffic regulators utilizing the following Maintaining Traffic Typical

MD-27E  
MD-28C

Additionally, traffic shall be maintained according to Sections 104.07, 104.11, and 812 of the 2020 Standard Specifications for Construction, including any Supplemental Specifications, and as specified herein.

Sign covers shall be placed over any regulatory, warning, or construction signs that are not applicable during construction.

The Contractor shall not create any unsafe conditions within the Construction Influence Area (CIA) that form a hazard for motorists. The CIA shall extend as far as the required advanced construction signing, or any other signs pertaining to this location. Extra caution should be used when delineating the work zone overnight to protect the roadway users.

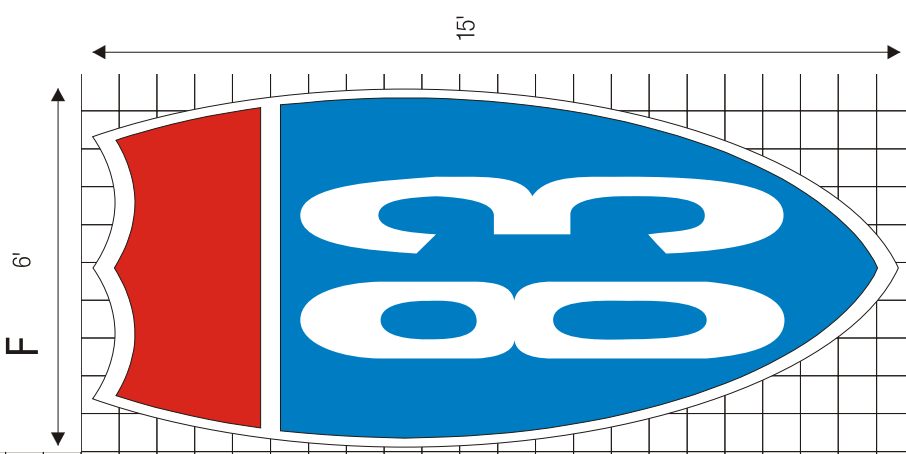
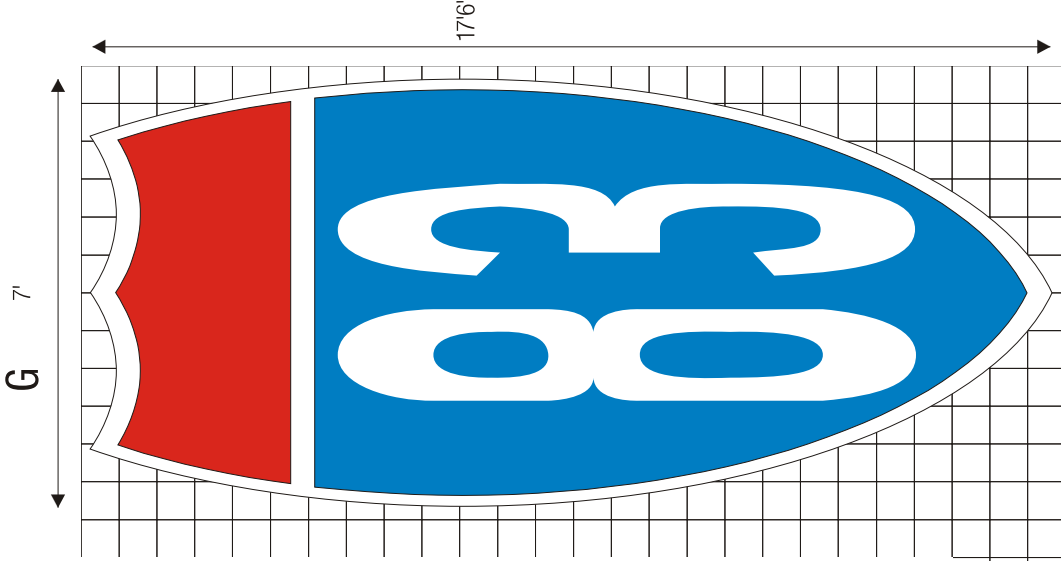
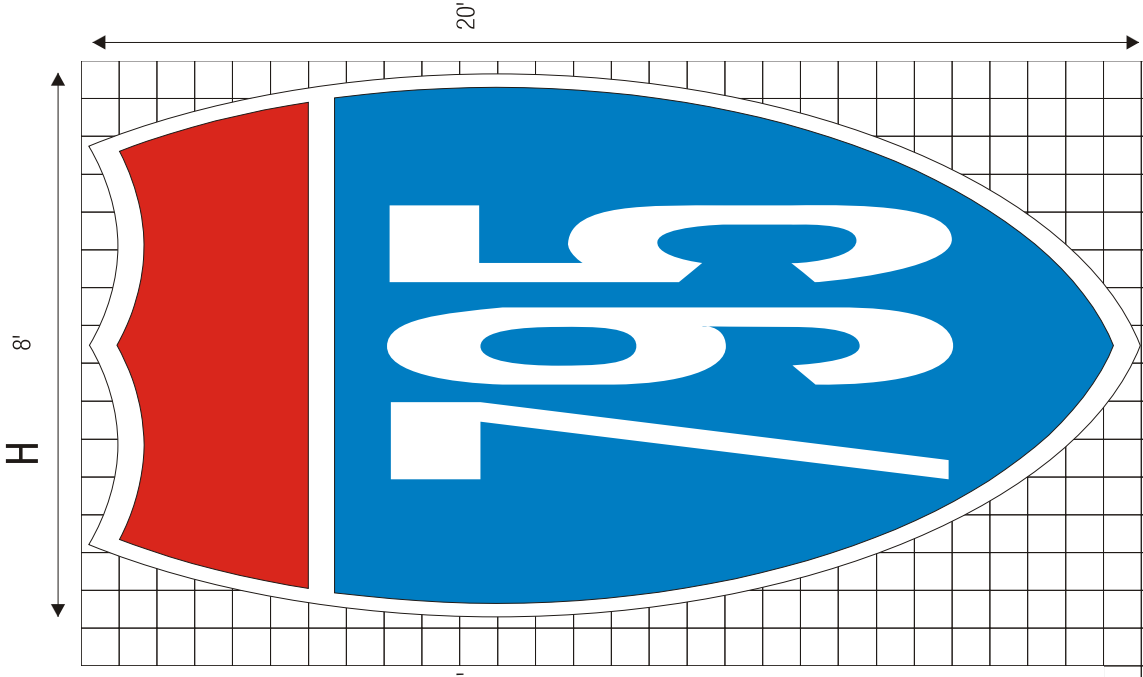
No work shall be performed, or lane closures allowed during the Labor Day holiday period. The Labor Day holiday period shall be defined as beginning on Friday, September 1<sup>st</sup> through Tuesday, September 5<sup>th</sup>.

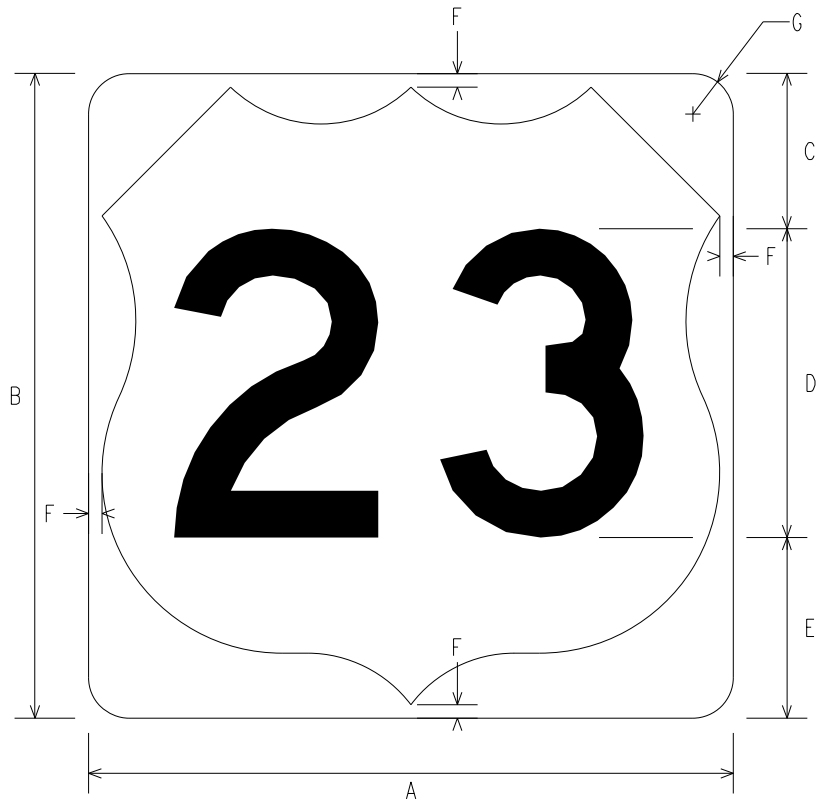
All lanes shall be flush with each other at the end of each workday.

Once work is initiated that includes any lane restrictions, that work shall be continuous until completed.

The storage restrictions in section 812.03.G.5 of the 2020 Standard Specifications for Construction will be strictly adhered to. The Contractor shall not park any vehicle or store any material on public recreational property.

Daily maintenance of traffic control items will not be paid for separately but will be included in the lump sum price for the project.





M1-4  
U.S. ROUTE MARKER (FOR INDEPENDENT USE)

**Note: Scale Up dimensions below to create overall route marker size.**

FOR RADII DIMENSIONS OF THE SHIELD: REFER TO 6-63.20 OF THE APPENDIX

SIGN	DIMENSIONS (INCHES)						
	A	B	C	D	E	F	G
* 1-2 DIGITS	18	18	4.25	9 D	4.75	.375	1.125
1-2 DIGITS	24	24	5.5	12 D	6.5	.5	1.5
1-2 DIGITS	36	36	8.25	18 D	9.75	.75	2.25
1-2 DIGITS	48	48	11	24 D	13	1	3
* 3 DIGITS	22.5	18	4.25	9 D	4.75	.375	1.125
3 DIGITS	30	24	5.5	12 D	6.5	.5	1.5
3 DIGITS	45	36	8.25	18 D	9.75	.75	2.25
3 DIGITS	60	48	11	24 D	13	1	3

COLORS

- LEGEND - BLACK (NON-REFL.)  
 SHIELD - WHITE (REFL.)  
 BACKGROUND - BLACK (NON-REFL.)  
 CENTRALLY LOCATE ALL LEGENDS  
 \*FOR WORK ZONE USE



OVERHEAD

NB SET 1:  
2 (US-127) left two lanes & 2  
(US-10) right two lanes  
Shield Marking  
1,500 Feet from OVERHEAD

NB SET 2:  
2 (US-127) left/median and  
center lanes & 1 (US-10)  
right/outside lane  
Shield Markings  
3,400 feet from OVERHEAD

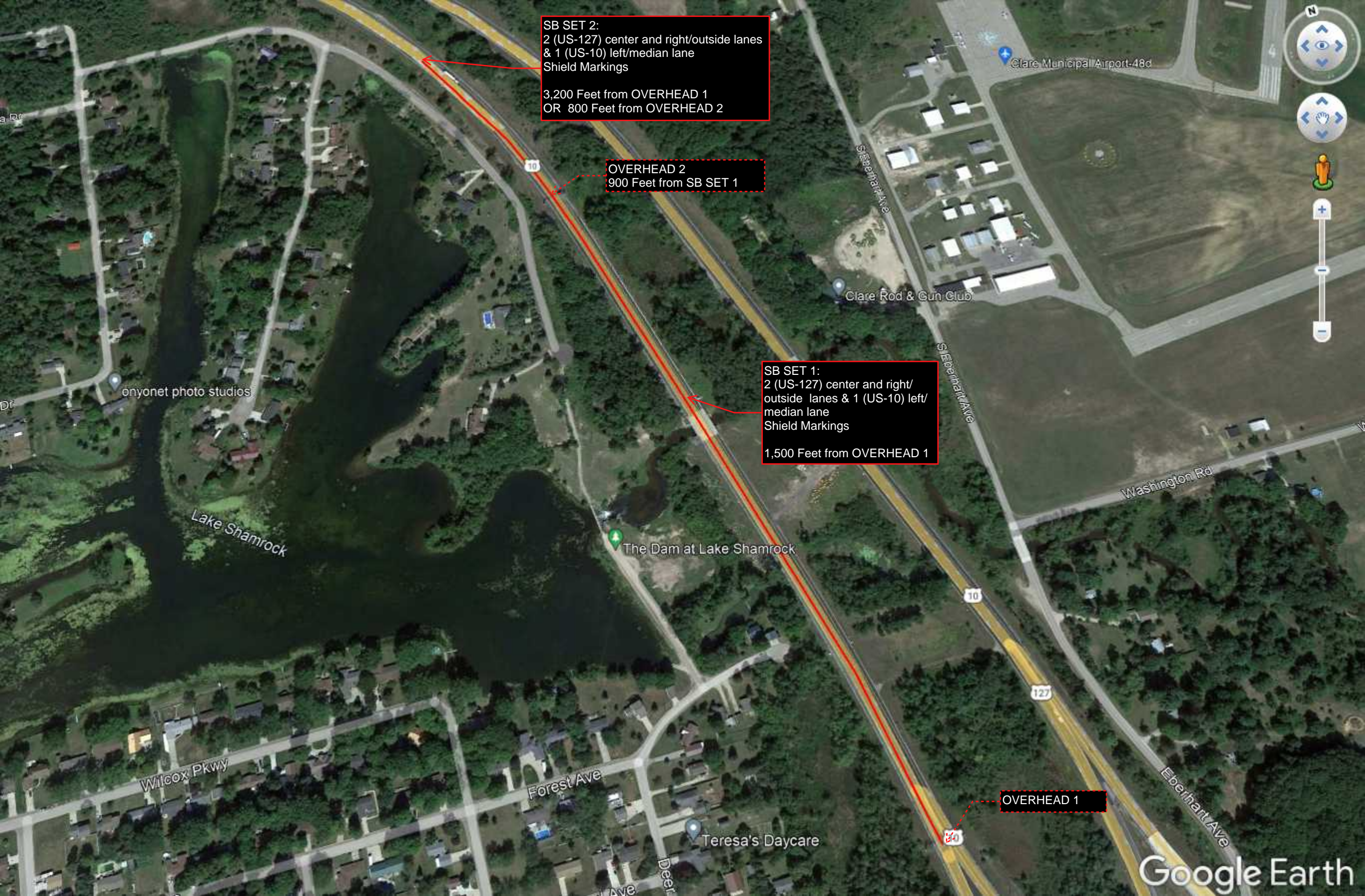


SB SET 2:  
2 (US-127) center and right/outside lanes  
& 1 (US-10) left/median lane  
Shield Markings  
  
3,200 Feet from OVERHEAD 1  
OR 800 Feet from OVERHEAD 2

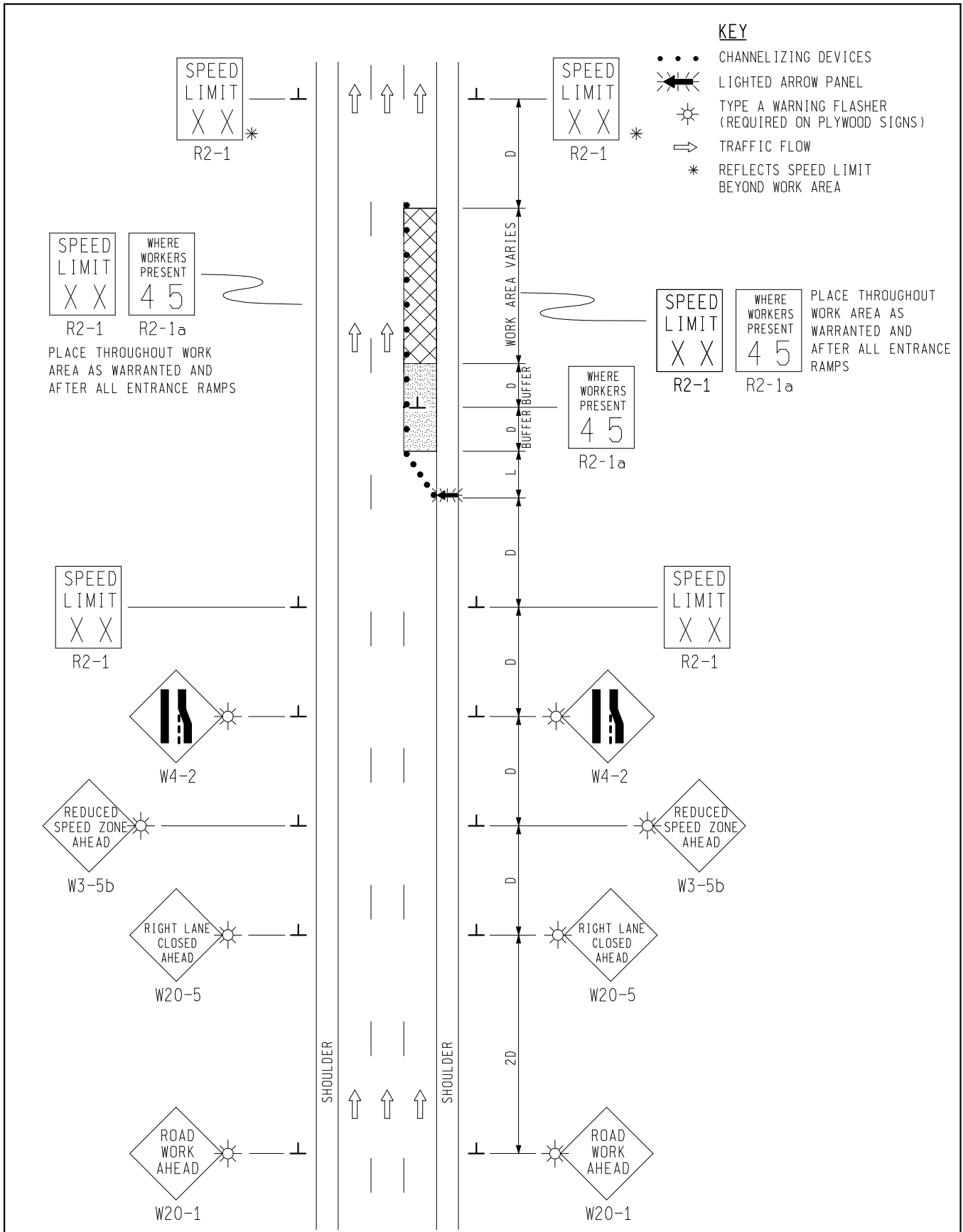
OVERHEAD 2  
900 Feet from SB SET 1

SB SET 1:  
2 (US-127) center and right/  
outside lanes & 1 (US-10) left/  
median lane  
Shield Markings  
  
1,500 Feet from OVERHEAD 1

OVERHEAD 1







PLACE THROUGHOUT WORK AREA AS WARRANTED AND AFTER ALL ENTRANCE RAMP

PLACE THROUGHOUT WORK AREA AS WARRANTED AND AFTER ALL ENTRANCE RAMP

NOT TO SCALE



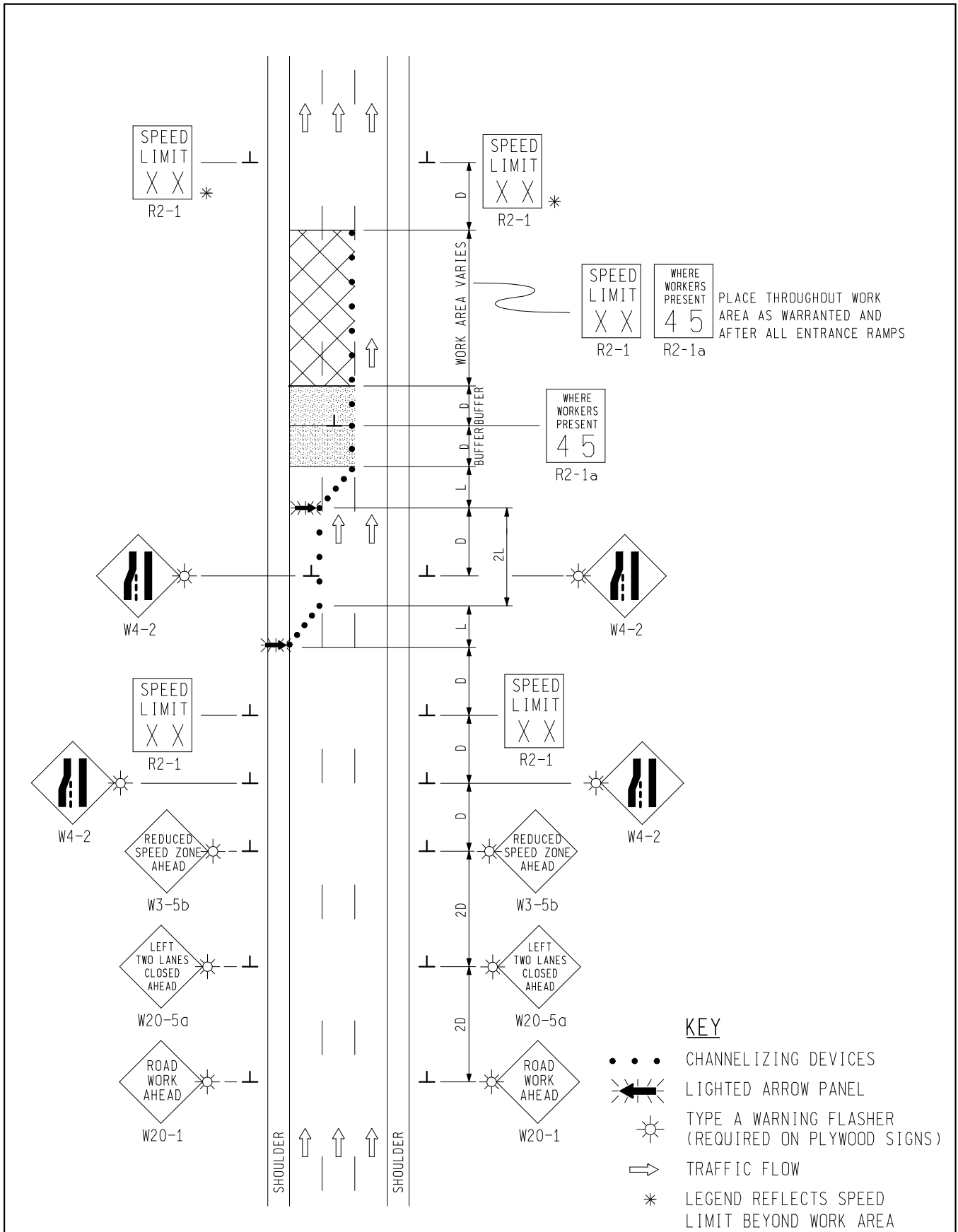
ONE-LANE CLOSURE ON A FREEWAY USING "WHERE WORKERS PRESENT" AND A SINGLE STEP DOWN IN SPEED LIMIT WHEN EXISTING SPEED LIMIT IS 70 MPH OR LESS

DURATION: SHORT-TERM STATIONARY

01/01/07  
REV. DATE:

MD - 27e

PAGE A32



NOT TO SCALE



TWO-LANE CLOSURE ON A FREEWAY USING  
 "WHERE WORKERS PRESENT" AND A SINGLE  
 STEP DOWN IN SPEED LIMIT WHEN  
 EXISTING SPEED LIMIT IS 70 MPH OR LESS

DURATION: SHORT-TERM STATIONARY

01/01/07  
 REV. DATE:

MD - 28c

PAGE  
 A35

## Warning Signs

- The minimum size of all diamond shaped warning signs is 48" x 48".
- Reflectorized signing is required.
- All warning signs may be equipped with an orange or day-glo flag mounted above the sign.
- Type A warning lights will not be required with the use of roll-up signs.
- The “**advance signing sequence**” consists of three signs; ROAD WORK AHEAD (W20-1), INJURE/KILL WORKER (R5-18b) and TRAFFIC FINES DOUBLED (R5-18). Refer to pages A48 & A49 for proper signing sequence.

## Sign Spacing – “D” Distances

The spacing between signs is based upon the permanently posted roadway speed. The sign spacing distances are minimums and may be adjusted to meet changing roadway and traffic conditions.

Table 1. Sign Spacing ("D" Distances)

Speed* (mph)	“D” Distance (ft.)	Speed* (mph)	“D” Distance (ft.)
25	250	50	500
30	300	55	550
35	350	60	600
40	400	65	650
45	450	70	700

\*Posted speed prior to work zone

## Tapers – “L” Lengths

Whenever tapers are to be used near interchange ramps, crossroads, curves, or other influencing factors, it may be necessary to adjust the length of tapers, or extend the tangent section of the lane closure so the taper can be established in advance of these factors. Recommended minimum values for taper lengths, “L”, are shown in Table 2.

Table 2. Taper Lengths

Taper Length, L (ft)	Posted Speed Limit, mph (Prior to Work Zone)										
	25	30	35	40	45	50	55	60	65	70	
Offset / Lane Width (ft)	8	83	120	163	213	360	400	440	480	520	560
	9	94	135	184	240	405	450	495	540	585	630
	10	104	150	204	267	450	500	550	600	650	700
	11	115	165	225	293	495	550	605	660	715	770
	12	125	180	245	320	540	600	660	720	780	840
	13	135	195	266	347	585	650	715	780	845	910
	14	146	210	286	374	630	700	770	840	910	980
	15	157	225	307	400	675	750	825	900	975	1050



## Cone and Drum Spacing for Channelization

Spacing of channelizing devices, in feet, along the taper should not exceed the posted speed in miles per hour and twice the posted speed in the parallel area (e.g., a 45 mph posted speed road should normally have devices spaced no greater than 45 ft apart along the taper and 90 ft in the parallel section). Cones or drums on a tangent, to keep traffic out of the closed lane, should be spaced in accordance with the extent and type of activity, the speed limit of the roadway, and the vertical and horizontal alignment of the roadway.

## Buffer Space

Buffer Space is a feature that separates traffic flow from the work activity. No equipment, materials or vehicles shall be stored in the buffer space. The shadow vehicle, if used, must be placed beyond the longitudinal buffer space.

**Table 3. Buffer Space Length for Posted Speeds**

Speed* (mph)	Buffer Length (ft)	Speed* (mph)	Buffer Length (ft)
20	33	50	279
25	50	55	329
30	83	60	411
35	132	65	476
40	181	70	542
45	230		

\*Posted speed prior to work zone

## Shadow Vehicle

A shadow vehicle should be used for lane closures on all roadways which have 45 mph or greater posted speeds and two or more lanes in each direction.

A shadow vehicle may be used in other work zones as deemed necessary. Factors to be considered in determining need include the following:

- Time of day of the closure
- Seasonal variations in traffic volume
- Length of lane closure and anticipated duration
- Traffic speeds
- Frequency of traffic stopping/turning movements

The shadow vehicle should be a loaded truck having 23,000 GVWR or greater with the brakes set, front wheels turned away from traffic and parked at the beginning of the roll-ahead space.

The roll-ahead space is the space between the shadow vehicle and the work area. This additional space is needed only when a shadow vehicle is used.



**MAIN OFFICE**  
 1965 Barrett Drive  
 Troy, MI 48064-5372  
 PHONE 248-362-2130  
 FAX 248-362-4969

<b>To:</b> _ESTIMATING DEPARTMENT_	<b>Contact:</b> ESTIMATING DEPT.
<b>Address:</b> -	<b>Phone:</b> (248) 362-2130
	<b>Fax:</b> (248) 362-4969
<b>Project Name:</b> CLARE COUNTY PREFORMED SHIELDS	<b>Bid Number:</b> 22-8889
<b>Project Location:</b> CLARE COUNTY	<b>Bid Date:</b> 8/15/2023

Line #	Item #	Item Description	Estimated Quantity	Unit	Unit Price	Total Price
1		Pavement Markings	1.00	LS	\$82,985.000	\$82,985.00

**Total Bid Price: \$82,985.00**

**Notes:**

- QUOTE IS BASED ON ONE MOVE IN FOR FINAL MARKINGS AT COMPLETION OF PROJECT. ADDITIONAL MOVE INS AT \$1,500.00 PER DAY.
- QUOTE IS BASED ON INSTALLING 8 US-127 AND 5 US-10 PREFORMED THERMOPLASTIC SHIELDS PER THE PROJECT LOG.

<p><b>ACCEPTED:</b>          The above prices, specifications and conditions are satisfactory and are hereby accepted.</p> <p><b>Buyer:</b> _____</p> <p><b>Signature:</b> _____</p> <p><b>Date of Acceptance:</b> _____</p>	<p><b>CONFIRMED:</b>  <b>PK CONTRACTING, INC.</b></p> <p><b>Authorized Signature:</b> _____</p> <p><b>Estimator:</b> Greg Moody          (248) 362-2130 greg@pkcontracting.com</p>
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Contractor P.K CONTRACTING

Address 1965 BARRETT DRIVE, TROY, MI 48084

Contact NICK SHEA

Telephone Number 248-362-2130

## **Bids must be delivered to:**

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Harrison, MI 48625


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Signature:  Date: 08/14/2023