

DOWNTOWN GROVELAND (ELM SQUARE) PROPOSED PROJECT LOCUS MAP MassDOT Shared Streets & Spaces Program (Round 3): Groveland Application



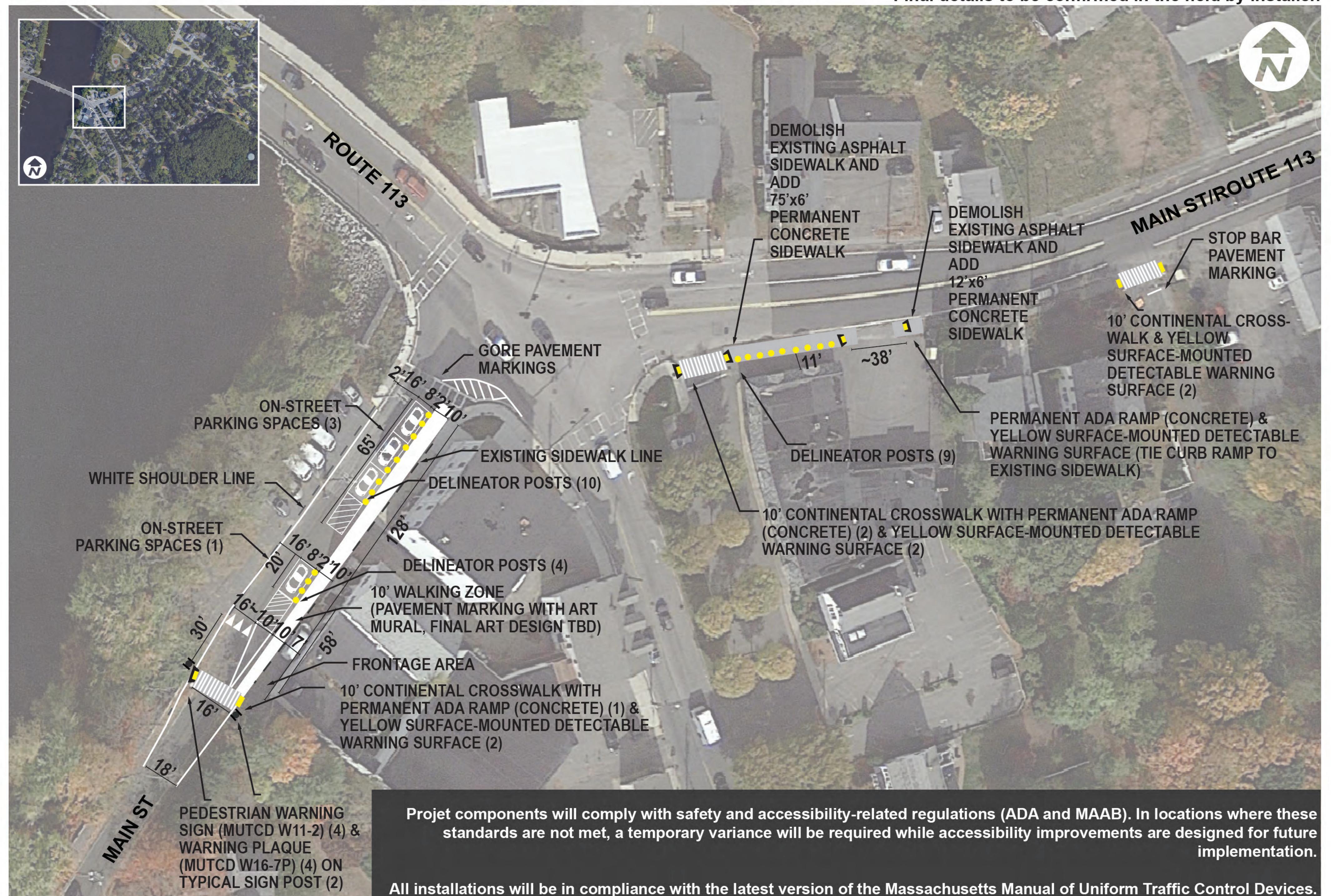
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DOWNTOWN GROVELAND (ELM SQUARE) PROPOSED PROJECT LOCUS MAP

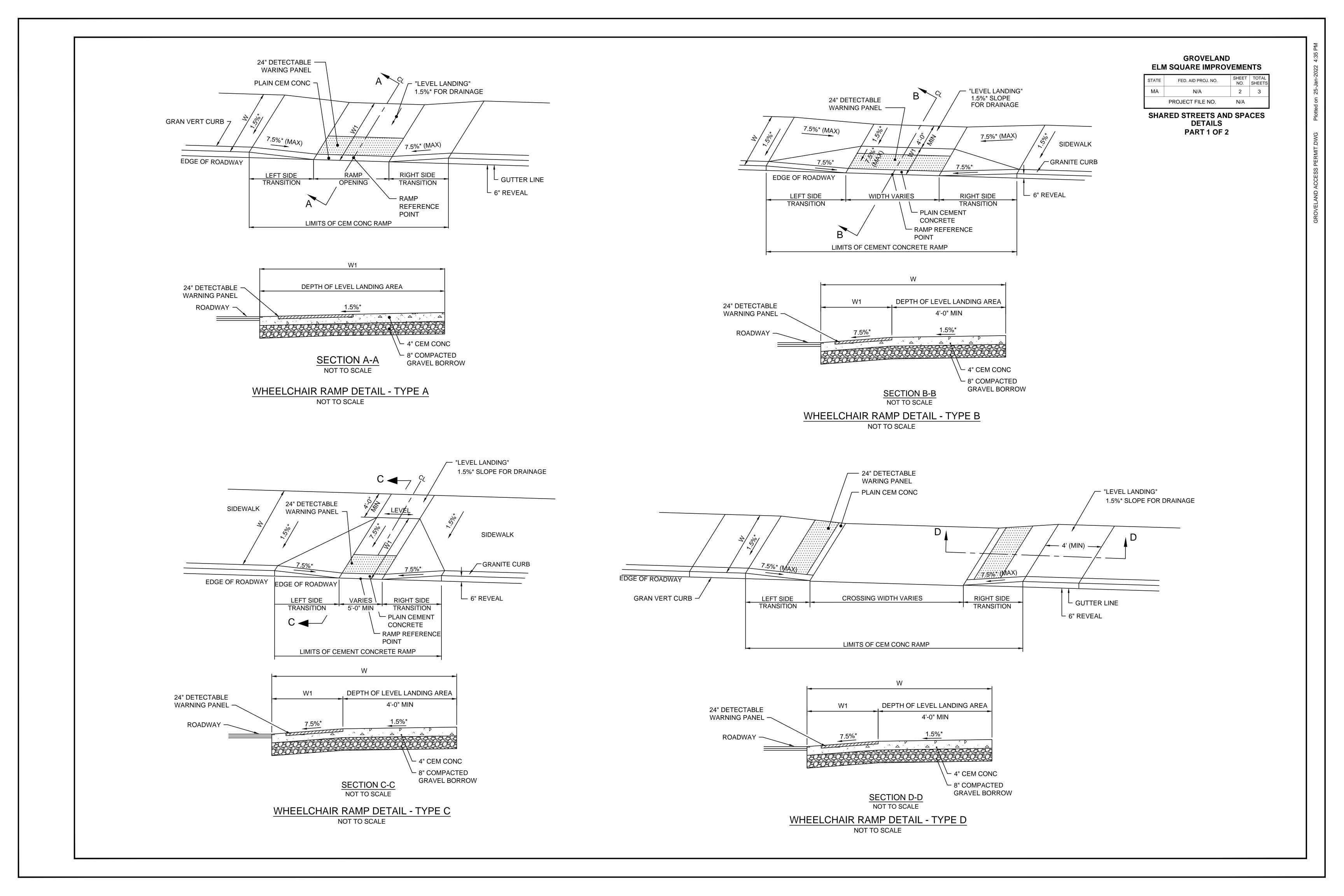
MassDOT Shared Streets & Spaces Program (Round 3): Groveland Application Drawing not to

Drawing not to scale; for informational purposes only. Final details to be confirmed in the field by installer.

More details on art installation specifications are provided in the application.

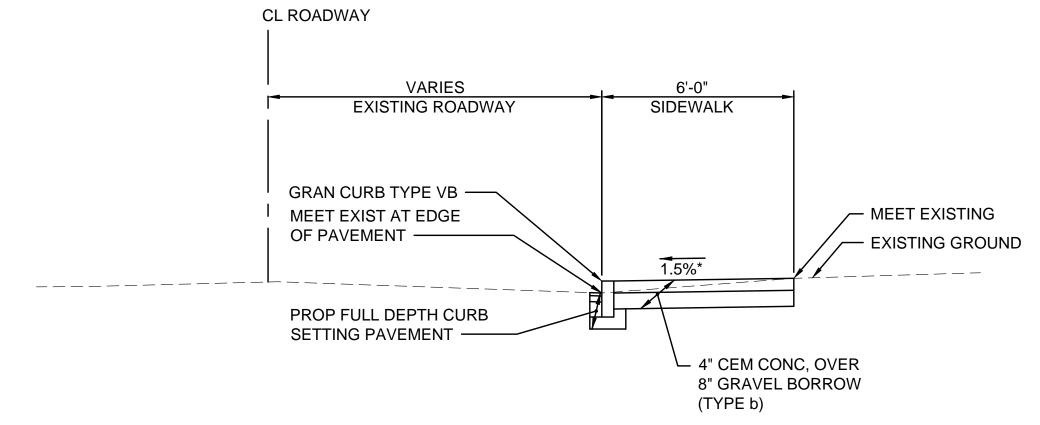


NOTES: GROVELAND ELM SQUARE IMPROVEMENTS 1. STATE HIGHWAY LAYOUT LINES ARE DEPICTED FROM REFERNCING BOTH RECORD LAYOUT PLAN FOR LAYOUT NO. 7752 (MAY 19, 2009) AND MASSGIS ASSESSORS' PARCELS. FED. AID PROJ. NO. 2. PROPERTY LINES ARE DEPICTED FROM MASSGIS ASSESSORS' PARCELS. 1 3 PROJECT FILE NO. 3. THE 1905 STATE HIGHWAY LAYOUT RECORD BASELINE HAS BEEN TRACED FROM LAYOUT PLAN NO. 930. IT IS SHOWN FOR REFERENCE ONLY AND ITS LOCATION SHALL BE SHARED STREETS AND SPACES CONCEPT PLAN CONSIDERED APPROXIMATE. - PROP CEM CONC WCR PROP GRAN R&D EXIST HMA WALK AND INSTALL 6' CEM CONC SOWK TRANSITION CURB (TYP) END OF 2009 STATE HIGHWAY ALTERATION NO. 7752 — — — - PROP CEM CONC WCR ┌ W11-2 RET EXIST CURB W16-7p PROP CEM
CONC WCR — JULY 26, 1949 SHLO NO. 365 PROP SURFACE MOUNTED
DETECTABLE WARNING
PANELS (TYP) - PROP GRAN TRANSITION +31.65 MAIN STREET CURB (TYP) (ROUTE 113) — 32.00' — 10'-CW MARCH 9, 1905 SHLO NO. 930 RETAIN EXIST R6-1 & R3-2 SIGNS PROP GRAN TRANSITION CURB (TYP) PROP CEM CONC WCR -- PROP CEM R&D EXIST HMA WALK AND INSTALL 6' CEM CONC SDWK CONC WCR SAWCUT AND MEET AT BOSW
PROP DELINEATOR
POST (TYP, 13) SCALE: 1" = 20'

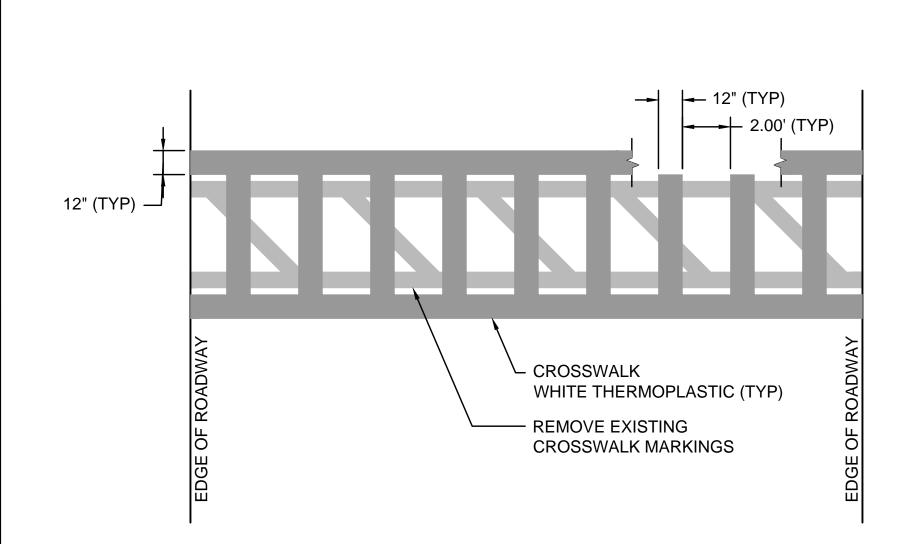


ID NUMBER	SIZE OF SIG	GN (INCHES)	UNIT AREA	TEXT	NUMBER OF SIGNS			POST SIZE AND	AREA IN	
ID NOMBER	WIDTH	HEIGHT	(SF)	IEAI	REQUIRED	BACK- GROUND	LEGEND	BORDER		SQUARE FEET
R1-5A	36"	48"	12 SF	HERE TO PEDESTRIANS	2	WHITE / RED	BLACK / RED	BLACK	P5 2	24 SF
W11-2	30"	30"	6.25 SF		4	F.Y.G.	BLACK	BLACK	P5 2 (MOUNT BACK TO BACK)	25 SF
W16-7pL	24"	12"	2 SF		2	F.Y.G.	BLACK	BLACK	MOUNT WITH W11-2	4 SF
W16-7pR	24"	12"	2 SF		2	F.Y.G.	BLACK	BLACK	MOUNT WITH W11-2	4 SF

F.Y.G. = FLUORESCENT YELLOW GREEN



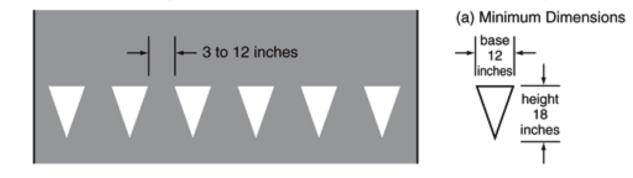
TYPICAL SIDEWALK SECTION NOT TO SCALE

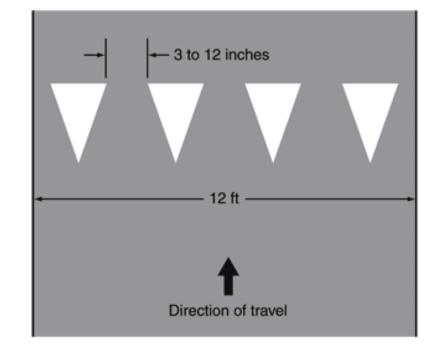


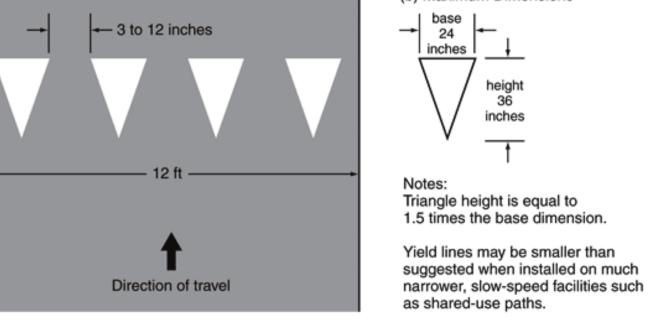
PROPOSED CROSSWALK DETAIL NOT TO SCALE

Figure 3B-16. Recommended Yield Line Layouts

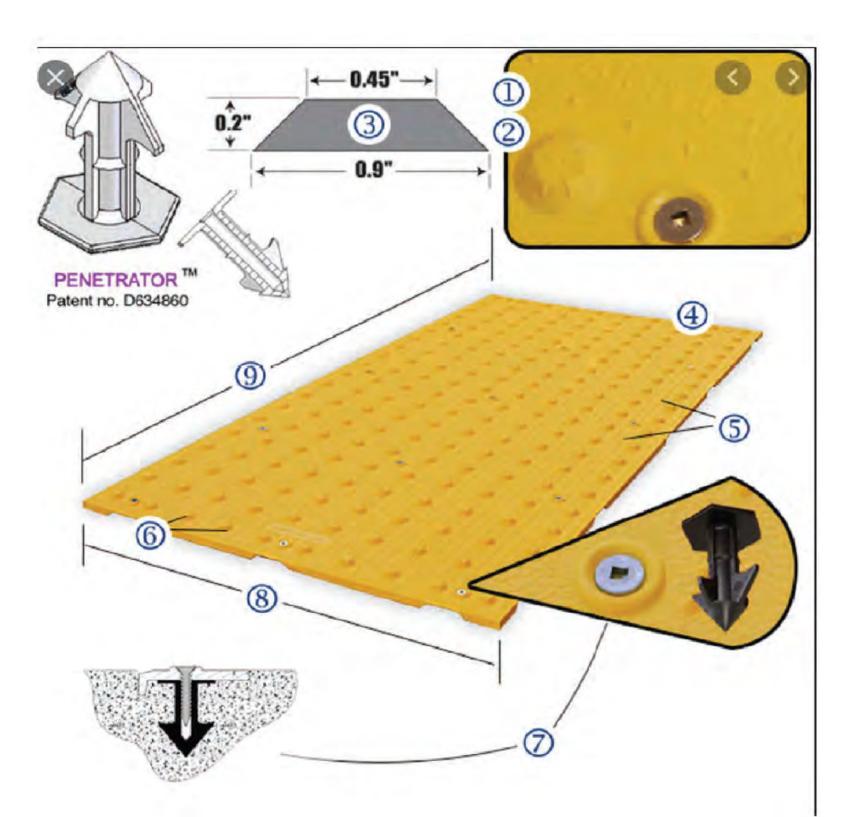
(b) Maximum Dimensions



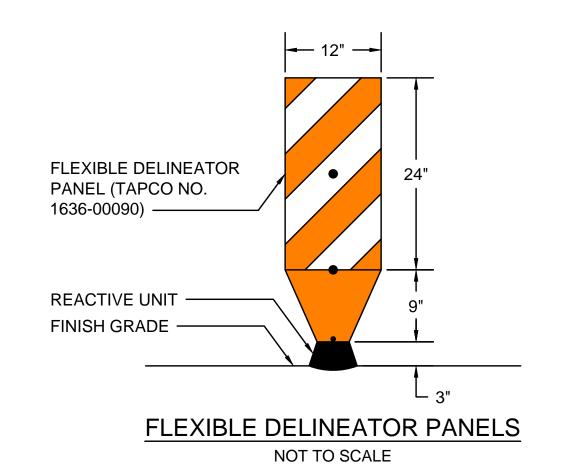




SHARKS TEETH ADVANCED YIELD MARKINGS NOT TO SCALE



2' x 5' YELLOW SURFACE-MOUNTED DETECTABLE WARNING SURFACE # NEEDED - 10



GROVELAND **ELM SQUARE IMPROVEMENTS**

STATE	FED. AID PROJ. NO.	NO.	SHEETS	
MA	N/A	3	3	
	PROJECT FILE NO.	N/A		

SHARED STREETS AND SPACES DETAILS PART 2 OF 2

NOTES:

- 1. ALL TEMPORARY TRAFFIC CONTROL WORK SHALL CONFORM TO THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) AND ALL REVISIONS, UNLESS SUPERCEDED BY THESE PLANS.
- 2. ALL SIGN LEGENDS, BORDERS, AND MOUNTING SHALL BE IN ACCORDANCE WITH THE MUTCD.
- 3. TEMPORARY CONSTRUCTION SIGNING AND ALL OTHER TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF ANY WORK.
- 4. TEMPORARY CONSTRUCTION SIGNING, BARRICADES, AND ALL OTHER NECESSARY WORK ZONE TRAFFIC CONTROL DEVICES SHALL BE REMOVED FROM THE HIGHWAY OR COVERED WHEN THEY ARE NOT REQUIRED FOR CONTROL OF TRAFFIC.
- 5. SIGNS AND SIGN SUPPORTS LOCATED ON OR NEAR THE TRAVELED WAY, CHANNELIZING DEVICES, BARRIERS, AND CRASH ATTENUATORS MUST PASS THE CRITERIA SET FORTH IN NCHRP REPORT 350, "RECOMMENDED PROCEDURES FOR THE SAFETY PERFORMANCE EVALUATION OF HIGHWAY FEATURES" AND/OR "MANUAL FOR ASSESSING SAFETY HARDWARE" (MASH).
- 6. CONTRACTORS SHALL NOTIFY EACH ABUTTER AT LEAST 24 HOURS IN ADVANCE OF THE START OF ANY WORK THAT WILL REQUIRE THE TEMPORARY CLOSURE OF ACCESS, SUCH AS CONDUIT INSTALLATION, EXISTING PAVEMENT EXCAVATION, TEMPORARY DRIVEWAY PAVEMENT PLACEMENT, AND SIMILAR OPERATIONS.
- 7. THE FIRST TEN (10) PLASTIC DRUMS OF A TAPER SHALL BE MOUNTED WITH TYPE-A SEQUENTIAL FLASHING LIGHTS
- 8. THE ADVISORY SPEED LIMIT, IF REQUIRED, SHALL BE DETERMINED BY THE ENGINEER.
- 9. DISTANCES ARE A GUIDE AND MAY BE ADJUSTED IN THE FIELD BY THE ENGINEER.
- 10. MAXIMUM SPACING OF TRAFFIC DEVICES IN A TAPER (DRUMS OR CONES) IS EQUAL IN FEET TO THE SPEED LIMIT IN MPH.
- 11. MINIMUM LANE WIDTH IS TO BE 11 FEET (3.3m) UNLESS OTHERWISE SHOWN. MINIMUM LANE WIDTH TO BE MEASURED FROM THE EDGE OF DRUMS OR MEDIAN BARRIER.
- 12. ALL SIGNS SHALL BE MOUNTED ON THEIR OWN STANDARD SIGN SUPPORTS.

LEGEND:

REFLECTORIZED PLASTIC DRUM WORK ZONE WORK VEHICLE OR 36" CONE DIRECTION OF TRAFFIC TRUCK MOUNTED ATTENUATOR P/F POLICE/FLAGGER DETAIL IMPACT ATTENUATOR TRAFFIC OR PEDESTRIAN SIGNAL TYPE III BARRICADE MEDIAN BARRIER SIGN CHANGEABLE MESSAGE SIGN MEDIAN BARRIER WITH -ARROW BOARD WARNING LIGHTS

THE IDEAL CAPACITY OF A MAJOR HIGHWAY IS GENERALLY CONSIDERED TO BE 1900 PASSENGER CARS PER HOUR PER LANE (PCPHPL). IN WORK ZONES ON A MULTI-LANE DIVIDED HIGHWAY, THE FOLLOWING VOLUME GUIDELINES HAVE BEEN SUGGESTED:

MEASURED AVERAGE WORK ZONE CAPACITIES

NUMBER OF LANES		NUMBER	AVERAGE CAPACITY		
NORMAL (EXISTING)	OPEN (TO TRAFFIC)	OF STUDIES	VPH	VPHPL	
3 2 5 4 3 4	1 1 2 2 2 2 3	7 8 8 4 9 4	1,170 1,340 2,740 2,960 2,980 4,560	1,170 1,340 1,370 1,480 1,490 1,520	

Source: Dudek, C., <u>Notes on Work Zone Capacity and Level of Service</u>. Texas Transportation Institute, Texas A&M University, College Station, Texas (1984)

BY OBTAINING HOURLY TRAFFIC COUNTS FOR A PARTICULAR ROADWAY (WITH A MINIMUM OF A 48-HOUR AUTOMATIC TRAFFIC RECORDER (ATR) COUNT), THIS WILL HELP TO DETERMINE AT WHAT TIMES OF THE DAY OR NIGHT A CERTAIN NUMBER OF LANES MAY BE CLOSED.



Notes for Traffic Management FIGURE GEN-1
GENERAL GUIDELINES

SUGGESTED WORK ZONE WARNING SIGN SPACING

ROAD TYPE	DISTANCE BETWEEN SIGNS **			
KOAD TIFE	Α	В	С	
LOCAL OR LOW VOLUME ROADWAYS*	350 (100)	350 (100)	350 (100)	
MOST OTHER ROADWAYS*	500 (150)	500 (150)	500 (150)	
FREEWAYS AND EXPRESSWAYS*	1,000 (300)	1,500 (450)	2,640 (800)	

- * ROAD TYPE TO BE DETERMINED BY MASSDOT OFFICE OF TRANSPORTATION PLANNING.
- ** DISTANCES ARE SHOWN IN FEET (METERS). THE COLUMN HEADINGS A, B, AND C ARE THE DIMENSIONS SHOWN IN THE DETAIL/ TYPICAL SETUP FIGURES. THE A DIMENSION IS THE DISTANCE FROM THE TRANSITION OR POINT OF RESTRICTION TO THE FIRST SIGN. THE B DIMENSION IS THE DISTANCE BETWEEN THE FIRST AND SECOND SIGNS. THE C DIMENSION IS THE DISTANCE BETWEEN THE SECOND AND THIRD SIGNS. (THE "THIRD" SIGN IS THE FIRST ONE TYPICALLY ENCOUNTERED BY A DRIVER APPROACHING A TEMPORARY TRAFFIC CONTROL (TTC) ZONE.)

THE "THIRD" SIGN ABOVE IS TYPICALLY REFERRED TO AS AN "ADVANCE WARNING" SIGN ON THE TTCP SETUPS. THESE ADVANCE WARNING SIGNS ARE LOCATED PRIOR TO THE PROJECT LIMITS ON ALL APPROACHES (i.e. THE W20-1 SERIES (ROAD WORK XX FT) SIGNS), AND USUALLY REMAIN FOR THE DURATION OF THE PROJECT. ADDITIONAL SIGNS (i.e. "RIGHT LANE CLOSED 1 MILE" AND "LEFT LANE CLOSED 1 MILE") HAVE BEEN SHOWN IN SOME FIGURES AS EXAMPLES OF REINFORCEMENT SIGN PLACEMENT BUT ARE USED IN RARE OCCASIONS.

THE FIRST AND SECOND WARNING SIGNS ABOVE ARE REFERRED TO AS THE OPERATIONAL (DAY-TO-DAY) WORK ZONE SIGNS AND MAY BE MOVED DEPENDING ON WHERE THE SPECIFIC ROADWAY WORK FOR THAT DAY IS LOCATED.

R2-10a SIGNS SHALL BE PLACED BETWEEN THE SECOND AND THIRD SIGNS AS DESCRIBED ABOVE.

R2-10a, R2-10e, AND W20-1 SERIES SIGNS ARE TO BE INCLUDED ON ALL DETAILS/TYPICAL SETUPS.

Based on: Table 6C-1 MUTCD LATEST EDITION

STOPPING SIGHT DISTANCE AS A FUNCTION OF SPEED

SPEED*	DISTANCE
(km/h)	(m)
30 40 50 60 70 80 90 100 110	35 50 65 85 105 130 160 185 220 250

SPEED*	DISTANCE
(mph)	(ft)
20	115
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645
70	730
75	820

*POSTED SPEED, OFF-PEAK 85TH-PERCENTILE SPEED PRIOR TO WORK STARTING, OR THE ANTICIPATED OPERATING SPEED

THESE VALUES MAY BE USED TO DETERMINE THE LENGTH OF LONGITUDINAL BUFFER SPACES.

THE DISTANCES IN THE ABOVE CHART REPRESENT THE MINIMAL VALUES FOR BUFFER SPACING.

Source: Table 6C-2 MUTCD LATEST EDITION



Notes for Traffic Management **FIGURE GEN-2**

NOTES ON WORK ZONE DISTANCES

CONVENTIONAL ROADWAY— A STREET OR HIGHWAY OTHER THAN A LOW—VOLUME ROAD, EXPRESSWAY, OR FREEWAY.

EXPRESSWAY - A DIVIDED HIGHWAY WITH PARTIAL CONTROL OF ACCESS.

FREEWAY- A DIVIDED HIGHWAY WITH FULL CONTROL OF ACCESS.

<u>LOW-VOLUME ROAD</u>— A FACILITY LYING OUTSIDE OF BUILT-UP AREAS OF CITIES, TOWNS, AND COMMUNITIES, AND IT SHALL HAVE A TRAFFIC VOLUME OF LESS THAN 400 AADT. IT SHALL NOT BE A FREEWAY, EXPRESSWAY, INTERCHANGE RAMP, FREEWAY SERVICE ROAD OR A ROAD ON A DESIGNATED STATE HIGHWAY SYSTEM.

Source: MUTCD LATEST EDITION

TAPER LENGTH CRITERIA FOR TEMPORARY TRAFFIC CONTROL ZONES

TYPE OF TAPER	TAPER LENGTH (L)*
MERGING TAPER	AT LEAST L
SHIFTING TAPER	AT LEAST 0.5L
SHOULDER TAPER	AT LEAST 0.33L
ONE-LANE, TWO-WAY TRAFFIC TAPER	50 FT MIN.(15 m) 100 FT(30 m) MAX.
DOWNSTREAM TAPER	50 FT MIN.(15 m) 100 FT MAX.(30 m) PER LANE

Source: Table 6C-3 MUTCD LATEST EDITION

FORMULAS FOR DETERMINING TAPER LENGTHS

SPEED LIMIT (S)	TAPER LENGTH (L) FEET
40 MPH OR LESS	$L = \frac{WS^2}{60}$
45 MPH OR MORE	L= WS

SPEED LIMIT (S)	TAPER LENGTH (L) Meters
60 KM/H OR LESS	$L = \frac{WS^2}{155}$
70 KM/H OR MORE	$L = \frac{WS}{1.6}$

WHERE: L = TAPER LENGTH IN FEET (METERS)

W = WIDTH OF OFFSET IN FEET (METERS)

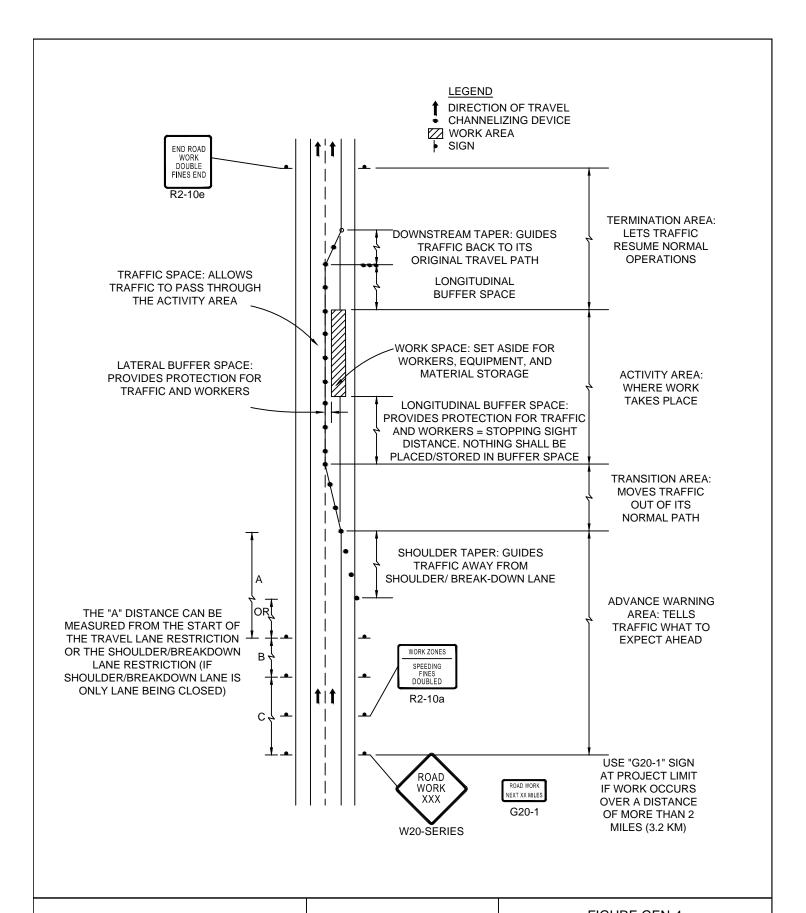
S = POSTED SPEED LIMIT, OR OFF-PEAK 85TH-PERCENTILE SPEED PRIOR TO WORK STARTING, OR THE ANTICAPATED OPERATING SPEED IN MPH (KM/H)

Source: Table 6C-4 MUTCD LATEST EDITION



Notes for Traffic Management FIGURE GEN-3

NOTES ON WORK ZONE DISTANCES





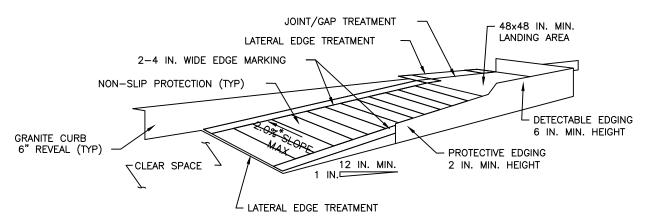
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FIGURE GEN-4 COMPONENT PARTS OF A TEMPORARY TRAFFIC CONTROL (TTC) ZONE

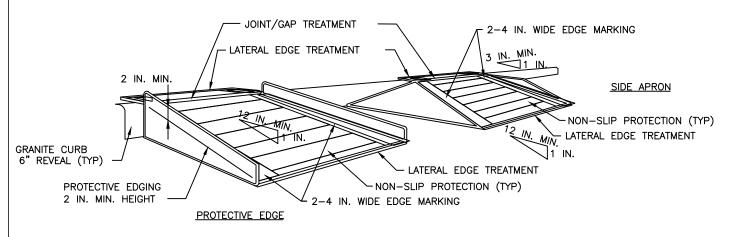
NOTES:

- CURB RAMPS SHALL BE 60 IN. MINIMUM WIDTH WITH A FIRM, STABLE AND NON-SLIP SURFACE.
- 2. PROTECTIVE EDGING WITH A 2 IN. MINIMUM HEIGHT SHALL BE INSTALLED WHEN THE CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6 IN. OR GREATER OR HAS A SIDE APRON SLOP STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN THE CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3 IN. OR MORE.
- DETECTABLE EDGING WITH 6 IN. MINIMUM HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
- CURB RAMPS AND LANDINGS SHOULD HAVE A 1:50 (2%) MAX CROSS-SLOPE.

- 5. CLEAR SPACE OF 48x48 IN. MINIMUM SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.
- THE CURB RAMP WALKWAY EDGE SHALL BE MARKED WITH A CONTRASTING COLOR 2 TO 4 IN. WIDE MARKING. THE MARKING IS OPTIONAL WHERE COLOR CONTRASTING EDGING IS USED.
- WATER FLOW IN THE GUTTER SYSTEM SHALL HAVE MINIMAL RESTRICTION.
- 8. LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN 0.5 IN. WIDTH.
- CHANGES BETWEEN SURFACE HEIGHTS SHOULD NOT EXCEED 0.5 IN. LATERAL EDGES SHOULD BE VERTICAL UP TO 0.25 IN. HIGH, AND BEVELED AT 1:2 BETWEEN 0.25 IN. AND 0.5 IN HEIGHT



TEMPORARY CURB RAMP-PARALLEL TO CURB



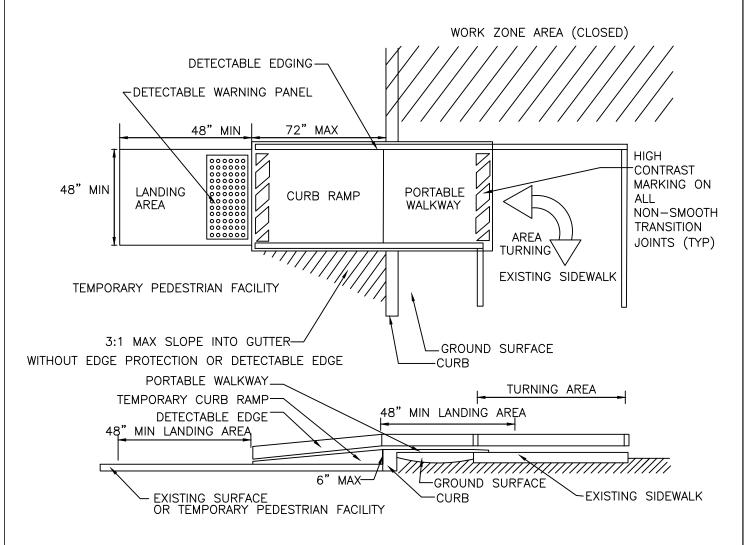
TEMPORARY CURB RAMP-PERPENDICULAR TO CURB



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FIGURE PED-1

PEDESTRIAN DETAILS



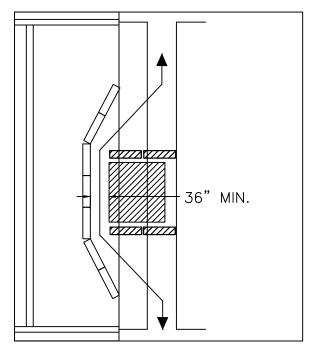
TEMPORARY CURB RAMP-TYPE 2

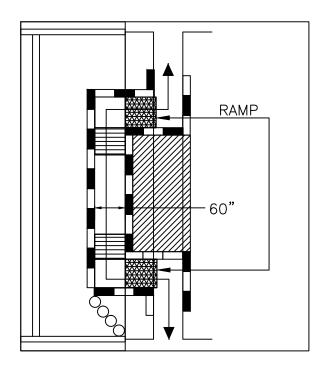


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FIGURE PED-2

PEDESTRIAN DETAILS





- When existing pedestrian facilities are disrupted, closed, or relocated in a TTC zone, temporary facilities shall be provided and they shall be detectable and include accessibility features consistent with the features present in the existing pedestrian facility.
- A pedestrian channelizing device that is detectable by a person with a visual disability traveling with the aid of a long cane shall be placed across the full width of the closed sidewalk.
- When used, temporary ramps shall comply with Americans with Disabilities Act (see Figures Ped-1 & Ped-2).
- The alternate pathway should have a smooth continuous hard surface for the entire length of the temporary pedestrian facility.
- The protective requirements of a TTC situation have priority in determining the need for temporary traffic barriers and their use in this situation should be based on engineering judgment.
- Audible information devices should be considered where midblock closings and changed crosswalk areas cause inadequate communication to be provided to pedestrians who have visual disabilities.

AUDIBLE DEVICES

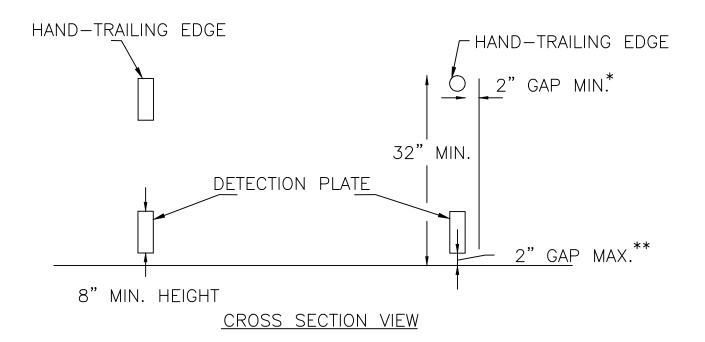
For long term sidewalk closures (at a minimum overnight) a form of speech messaging for pedestrians with visual disabilities shall be provided. Audible information devices such as detectable barriers or barricades and other passive pedestrian activation (motion activated) devices should be considered for these cases. These audible devices can be mountable or stand alone.



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FIGURE PED-3

PEDESTRIAN DETAILS



PEDESTRIAN CHANNELIZING DEVICE

NOTES:

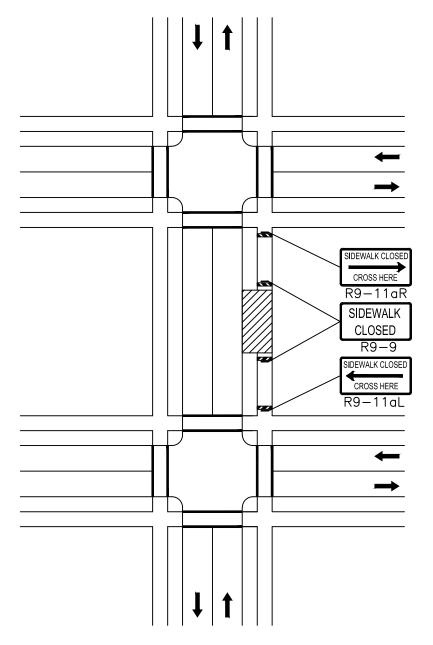
- * THERE SHALL BE A 2 INCH GAP BETWEEN THE HAND-TRAILING EDGE AND ITS SUPPORT.
- ** A MAXIMUM 2 INCH GAP BETWEEN THE BOTTOM OF THE BOTTOM RAIL AND THE SURFACE MAY BE USED TO PROVIDE DRAINAGE.



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FIGURE PED-4

PEDESTRIAN DETAILS



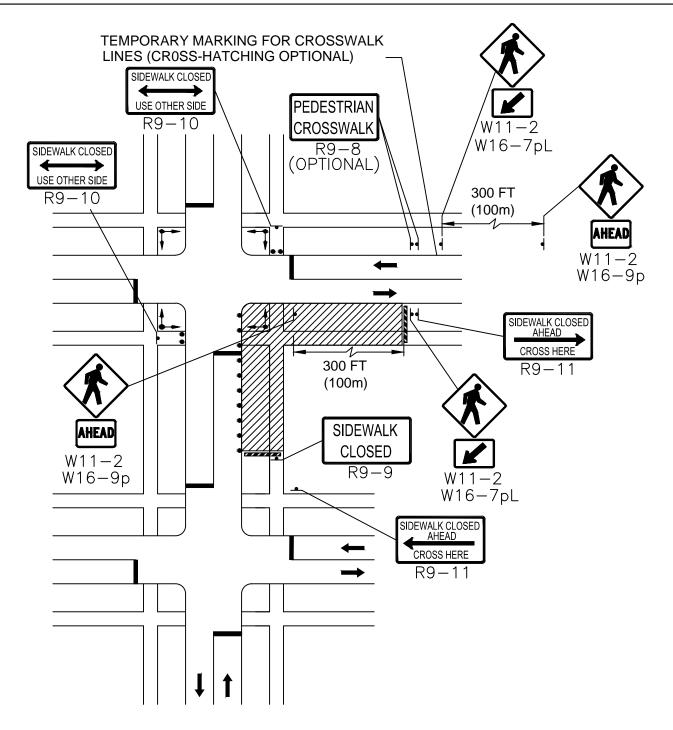
NOTE: IF A MINIMUM WIDTH OF 48" OF SOLID SMOOTH UNOBSTRUCTED SURFACE REMAINS ALONG THE WORK AREA THEN THE DETAIL CAN BE DISREGARDED. DELINEATION OF THE WORK AREA WILL STILL BE REQUIRED. AII PEDESTRIAN DETOUR ROUTES SHALL BE ADA/MAAB COMPLIANT IN THEIR ENTIRETY.



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FIGURE PED-5

SIDEWALK CLOSED WITHOUT DETOUR



NOTE:

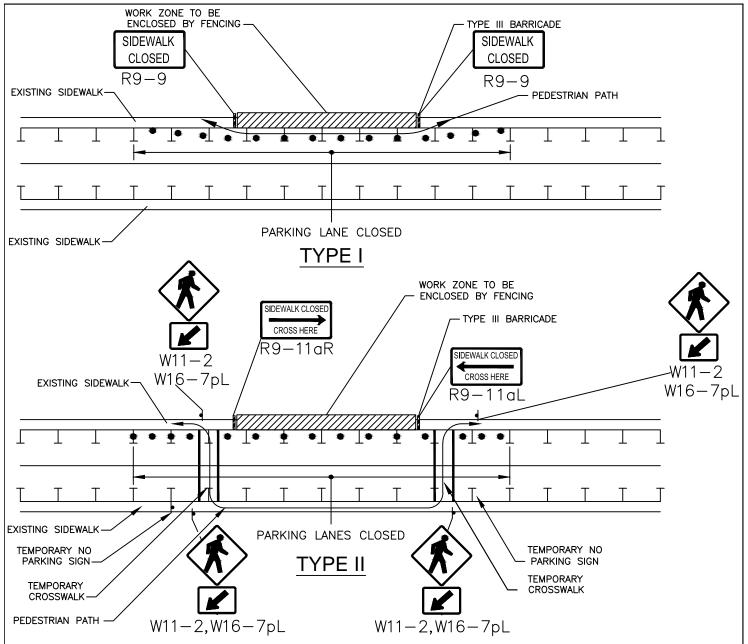
FOR LONG-TERM STATIONARY WORK, THE DOUBLE YELLOW CENTERLINE AND/OR LANE LINES SHOULD BE REMOVED BETWEEN THE CROSSWALK LINES.



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FIGURE PED-6

PEDESTRIAN DETOUR



NOTES

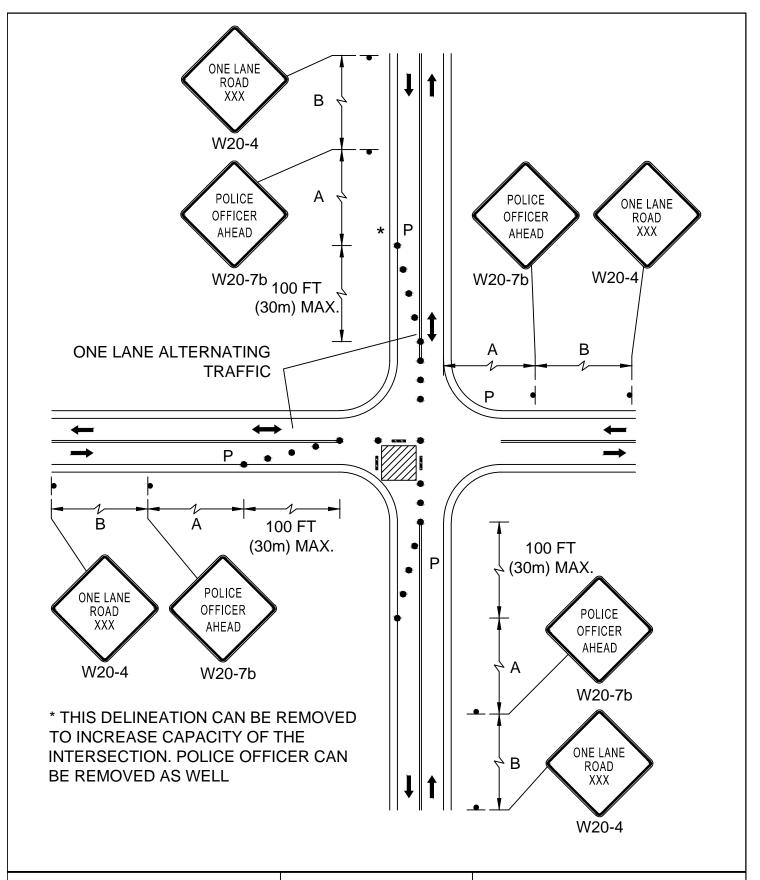
- 1. ADDITIONAL ADVANCE WARNING MAY BE NECESSARY.
- 2. CONTROLS ONLY FOR PEDESTRIAN TRAFFIC ARE SHOWN. VEHICULAR TRAFFIC SHOULD BE HANDLED AS SHOWN ELSEWHERE.
- 3. STREET LIGHTING SHOULD BE CONSIDERED WHEN LOCATING CONTROL DEVICES.
- 4. IF THE WORK ZONE DOES NOT PERMIT PEDESTRIANS TO TRAVEL ADJACENT TO IT AS SHOWN IN PEDESTRIAN BYPASS TYPE I, TEMPORARY CROSSWALKS WITH APPROPRIATE SIGNS SHOULD BE INSTALLED TO CROSS PEDESTRIANS TO THE OPPOSITE SIDE OF THE STREET AS SHOWN IN PEDESTRIAN BYPASS TYPE II, AND AS DIRECTED BY THE ENGINEER. TEMPORARY CURB RAMPS WILL BE REQUIRED AT ALL TEMPORARY CROSSWALK LOCATIONS.
- 5. BYPASS IS TO BE USED IN CONJUCTION WITH THE PROPOSED LANE CLOSURE DETAILS AND DURING CONSTRUCTION STAGING, AS DIRECTED BY THE ENGINEER.
- 6. THE TEMPORARY SIDEWALK SHOULD BE A MINIMUM OF 4 FEET WIDE. IF THIS WALKWAY EXCEEDS 200 FEET THEN A 5 FOOT X 5 FOOT PASSING ZONE. (FOR SHORT TERM SETUPS < 10 HOURS, THIS CONDITION MAY BE WAIVED. A NOTE WOULD NEED TO BE INCLUDED IN THE TTCP THAT STATES HOW THE CONTRACTOR SHOULD ADDRESS THIS ISSUE.)



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FIGURE PED-7

PEDESTRIAN BYPASS

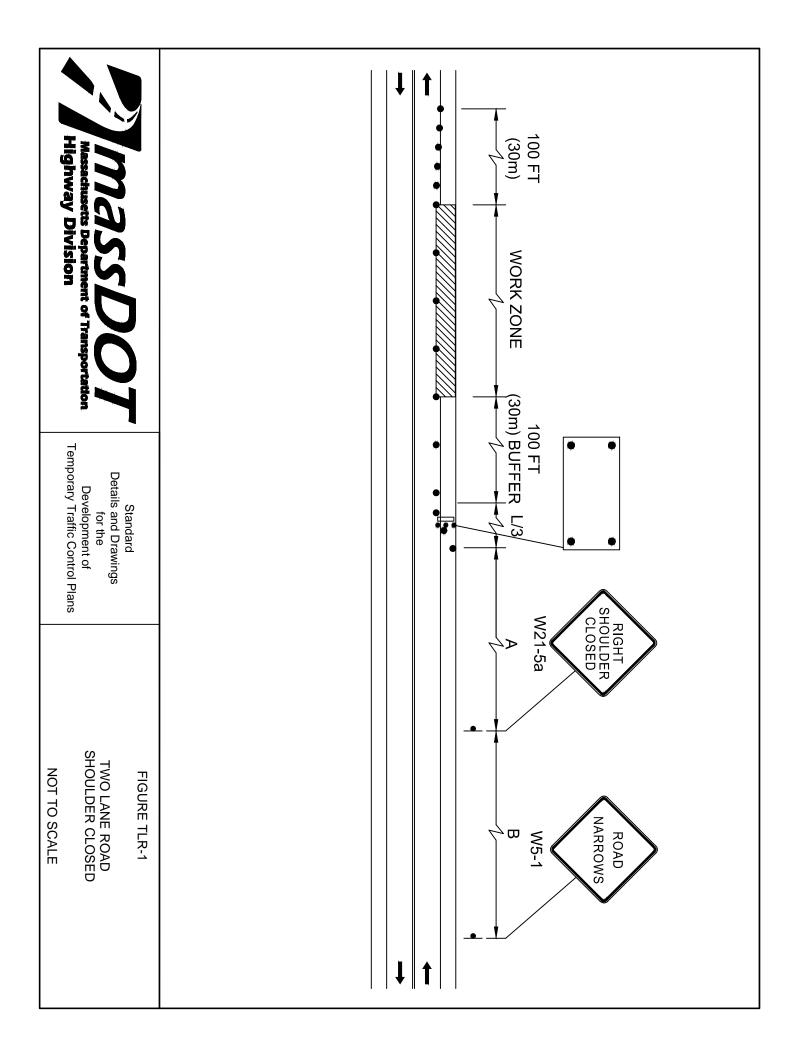


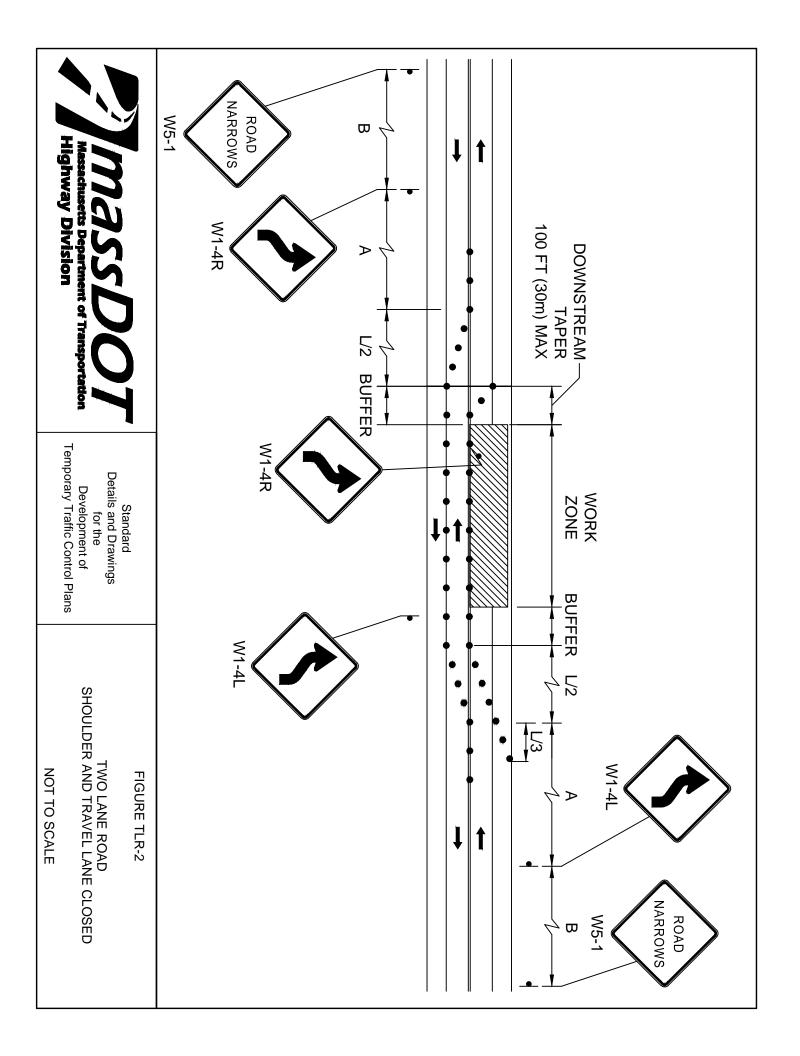


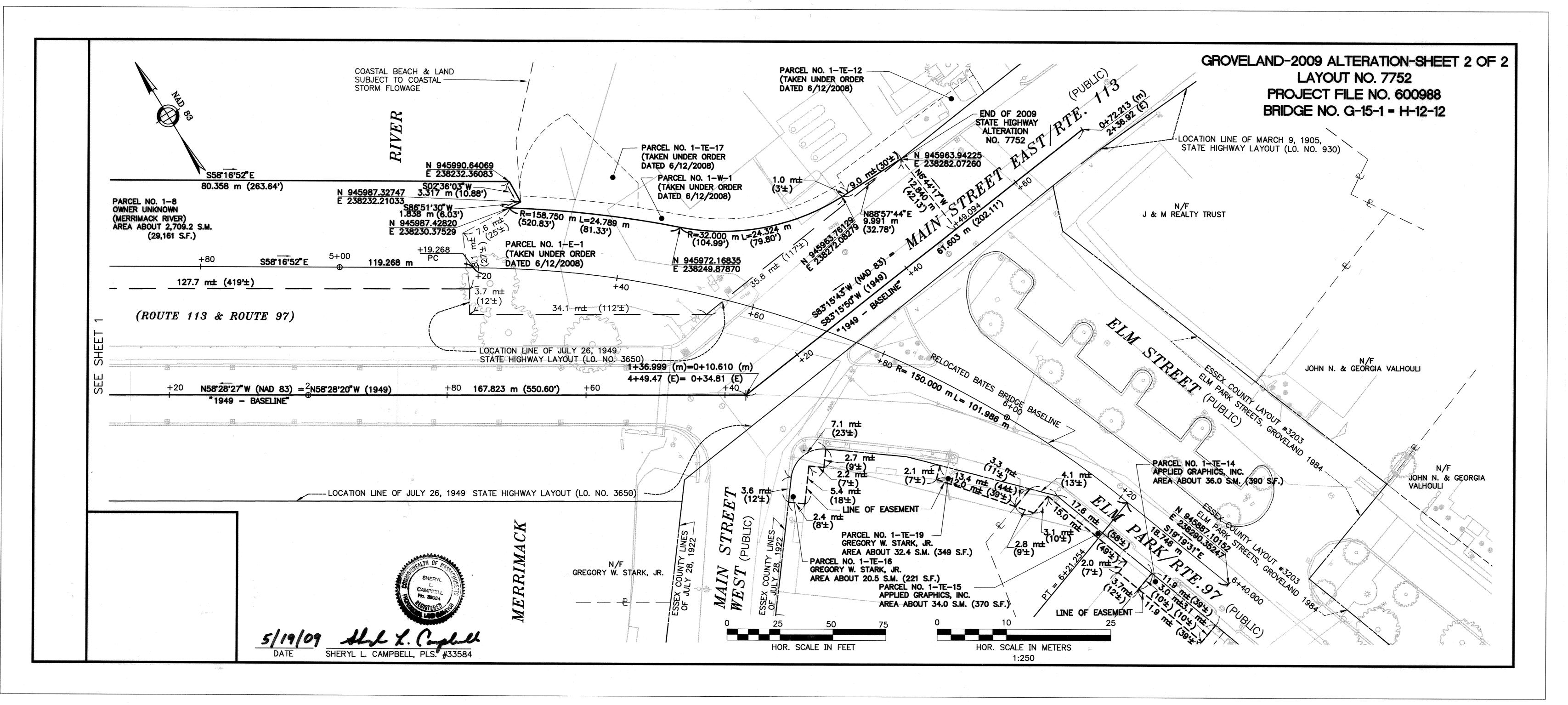
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FIGURE INT-2

SINGLE LANE APPROACH ONE QUADRANT CLOSURE







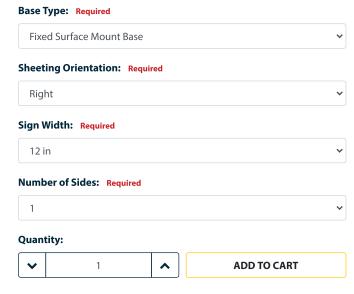


Impact Recovery Systems

12" Vertical Panels

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DESCRIPTION SHIPPING & RETURNS

Vertical Panels may be used to channelize traffic, divide opposing lanes of traffic, separate traffic lanes, help with lane closures or use in place of barricades where space is limited. They are ideal for use in work zones where changes in road alignment or lane shifts can create motorist confusion.

Vertical Panels are available in single- or double-sided configurations. They also come standard with our patented anti-twist, reactive spring assembly that ensures the panel returns to its original position after impact, reducing replacement costs.

- Post and panel are constructed of flexible plastic resistant to: ultraviolet light, ozone and hydrocarbons
- Exact position of diagonal striping may vary
- 2-sided sign consists of 2 left panels for center median placement (left/right panels are also available upon request)
- Federal acceptance: WZ-2
- Provides uninterrupted work zone channelization
- Provides high-target value and stays in place when impacted

Does not include base or installation hardware.

Additional Product Specifications:

Overall Height Sheeting Color Sheeting Type Sign Heig	ht

Additional Resources:

RELATED PRODUCTS



Rubber Base for Gemstone™ Vertical Panels

Starting at \$30.95 Plasticade



8" Vertical Panels

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