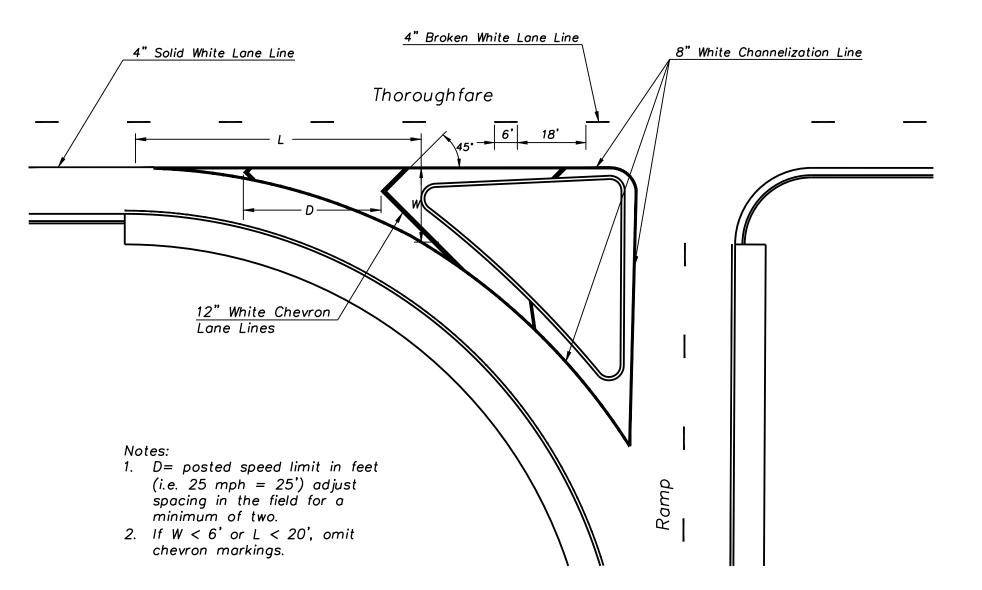


Pavement Marking General Notes

- 1. All permanent pavement markings shall be provided and installed by the contractor as indicated in the plans or as directed by the City Inspector. See the Pavement Marking Material Matrix and the Bill of Materials for the type of material required for this specific project.
- 2. Pavement markings on concrete, asphalt, chip seal or UBAS shall be per the
- specifications, unless otherwise indicated on the plans or directed by the City Inspector.

 3. Crosswalk lines shall be installed such that the minimum distance between the inside
- edges of the line is 6' for standard crosswalks or 10' for bike trail crossings.
- 4. Stop lines shall be installed such that the minimum distance between the trailing edge of the stop line and the leading edge of the first crosswalk line is 4 feet.
- 5. The proposed permanent markings shall be laid out by the contractor in advance of the marking installation. Markings shall not be applied until the layout and conditions of the surface have been approved by the City Inspector
- 6. Continental crosswalk lines, may be installed at locations that require higher visibility for pedestrians, as indicated in the plans. See details for guidelines.



Typical Interstate Ramp Entrance Markings

Pave	ement Marki	ng Material	Matrix								
Permanent Markings		Pavemei	nt Type								
r erritatietit iviatkiitgs	Asphalt	UBAS	Chip Seal	Concrete							
Words & Symbols	PTP	PTP	PCP ³	PCP ²							
Int'l Symbol of Accessibility	PTP	PTP	_	PTP ³							
Transverse Lines	TP1	TP1	PCP³	IMP¹ MMA⁵							
Longitudinal Lines	TP	TP	UA	IMP MMA⁵							
Temporary Markings	Pavement Type										
remporary markings	Asphalt	UBAS	Chip Seal	Concrete							
Words & Symbols	CP P⁴	CP P⁴	_	CP P							
Int'l Symbol of Accessibility	CP P⁴	CP P⁴	_	CP P							
Transverse Lines	CP P⁴	CP P⁴	P ⁴	CP P							
Longitudinal Lines	CP P⁴	CP P⁴	TRPM⁴ P⁴	CP P							

Pavement Marking Material Matrix Notes

- Applies only to tranverse lines that can be installed with one pass of the installation equipment, e.g. 24" stop lines, shall be pre-formed thermoplastic on asphalt or UBAS and inlaid patterned cold plastic on concrete.
- All patterned cold plastic on concrete shall be inlaid with a primer per the
- specifications.
- Markings so indicated shall be installed with a two-part primer.
- Markings so indicated are acceptable on asphalt surfaces only when installed prior to the application of the final surface material.
- 5. Markings so indicated are acceptable on concrete parking surfaces only.

<u>Legend:</u>

TP - Thermoplastic

PTP — Pre formed Thermoplastic

PCP — Patterned Cold Plastic IMP — Integrated Multi polymer

- UA Urethane Acrylate
- CP Cold Plastic
- P Paint MMA - Methyl Methacrylate
- TRPM Temporary Raised Pavement Marker

27 53

PAVEMENT MARKING NERAL NOTES & DETAILS

CITY OF OVERLAND PARK DEPARTMENT OF PUBLIC WOF

Station to Station	Location	4" Solid White Lane Line (L.F.)	4" Broken White Lane Line (L.F.)	4" Double White Channelization Line (L.F.)	4" Solid White Edge Line (L.F.)	4" White Lane Extension Line (L.F.)	8" Solid White Lane Line (L.F.)	8" White Dotted Line (L.F.)	4" Broken Yellow Centerline (L.F.)	4" Solid Yellow Edge Line (L.F.)	4" Solid & Broken Yellow Line (L.F.)	4" Double Yellow Line (L.F.)	6" White Lane Extension Line (L.F.)	8" White Channelization Line (L.F.)	6" White Crosswalk Lines (LF)	12" Yellow Diagonal Line (LF)	12" White Lane Extension Line (LF)	12" White Chevron Line (LF)	12" Whit Stop Lin (LF)
			· ·	, ,	, ,	, ,	· · ·	, ,	, ,	· · ·	, ,	, , ,	· ·	, , ,			(-)		
																			1
Start to I	nd Length																		-
	plier	1.00	0.25	2.00	1.00	0.33	1.00	0.25	0.25	1.00	1.25	2.00	1.00	1.00	1.00	1.00	0.50	1.00	1.00

Note:

Delete tables that are not applicable to specific project

Delete reference to materials not being used.

				W	nite		White	1			24"x36"	ermop 12"x18"	Blue &	White			White	T
Station to Station	Location	24" White Stop Line (LF)	24" White Crosswalk Line (LF)	Ar.	rn row (A) LT.	White THRU Arrow (EA)	White MERGE Arrow (EA)		RU & LT. Turn rrow (EA) THRU/LT	White "ONLY" Marking (EA)	White Yield Line (EA)	White Yield Line (EA)	White ISA* Symbol (EA)	Railroad Crossing Symbol (EA)	White Bike Symbol (EA)	White Bike Sharrow (EA)	Bike Lane Arrow (EA)	Speed Hum & Approac Markings (EA)
Start to E	nd Length			/////	/////	///////////////////////////////////////	X/////////	X/////	X//////	(////////	(//////////////////////////////////////	7///////	7///////	///////////////////////////////////////	V////////	///////////////////////////////////////	/////////	7,7777777
Multi		1.00	1.00															/////////////////////////////////////

Pavement Mo	arking Summa	ry – (Methyl	Methacrylate)
Station to Station	Location	4" Solid White Line (LF)	Blue & White ISA Symbol (EA)
Start to I	 End Length		
Mult	iplier	1.00	
Total Mat	erial Quantity		

					Pave	ment	Markir	ig Sum	nmary	- (P	aint) (or (Ur	ethane	Acrylo	ite)							_						
Station t	o Station	Location	4" Solid White Lane Line (LF)	4" Broken White Lane Line (LF)	4" Double White Channelization Line (LF)		4" White Land Extension Line (LF)			4" Solid & Broken Yellow Line (LF)	4" Double Yellow Line (LF)	6" White Crosswalk Line (LF)	8" White Dotted Line (LF)		12" Yellow Diagonal Lines (LF)	2" White Lane Extension Line (LF)	12" White Chevron Line (LF)	12" White Stop Line (LF)	24" White Stop Line (LF)	24"×36" White Yield Line (EA)	Whit Turr Arro (EA	n	White THRU Traffic Arrow (EA)	White THRU Traffic & RT./LT. Turn Arrow (EA) THRU/RT THRU/LT	White "ONLY" Marking (EA)	White Bike Symbol (EA)	White Bishe Loc Sharrow Aris (EA) (E	ite ke ne ow A)
	Start to E	nd Length																		//////////	//////	7777	///////////////////////////////////////	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<i>''''</i>	///////////////////////////////////////	7777777	////
		iplier	1.00	0.25	2.00	1.00	0.33	0.25	1.00	1.25	2.00	1.00	0.25	1.00	1.00	0.50	1.00	1.00	1.00									
	Total Mater																											

						Pavem	ent M	arking	Sumi	mary	(Patte	rned C	old Pic	istic) c	or (Co	ild Pla	stic)			-					
Station to Station Location	4" Solid White Lane Line (LF)	4" Broken White Lane Line (LF)	4" Double White Channelization Line (LF)	4" Solid White Edge Line (LF)	4" White Lane Extension Line (LF)	4" Broken Yellow Centerline (LF)	4" Solid Yellow Edge Line (LF)	4" Solid & Broken Yellow Line (LF)	4" Double Yellow Centerline (LF)	6" White Crosswalk Line (LF)	8" White Dotted Line (LF)	8" White Channelization Line (LF)	12" Yellow Diagonal Lines (LF)	12" White Lane Extension Line (LF)	12" White Chevron Line (LF)	12" White Stop Line (LF)	24" White Stop Line (LF)	24"x36" White Yield Line (EA)	White Turn Arrow (EA) RT. LT.	White THRU Traffic Arrow (EA)	White THRU Troffic & RT./LT. Turn Arrow (EA) THRU/RT THRU/	White Merge Arrow LT (EA)	White "ONLY" Marking (EA)	Bike B	White Bike Bike Lane arrow Arrow EA) (EA)
				1																1					
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				1																+					
				<u> </u>																					
																				+					
Start to End Length																		////////	X///X///				///////		///////////////////////////////////////
Multiplier	1.00	0.25	2.00	1.00	0.33	0.25	1.00	1.25	2.00	1.00	0.25	1.00	1.00	0.50	1.00	1.00	1.00								
Total Material Quantity																									

Description	Unit	Quantity
4" White (TP)	L.F.	X
4" Yellow (TP)	L.F.	X
6" White (TP)	L.F.	X
8" White (TP)	L.F.	Х
12" White (TP)	L.F.	X
12" Yellow (TP)	L.F.	X
4" White (IMP)	L.F.	X
4" Yellow (IMP)	L.F.	X
6" White (IMP)	L.F.	X
8" White (IMP)	L.F.	X
12" White (IMP)	L.F.	X
12" Yellow (IMP)	L.F.	X
24" White (PTP)	L.F.	X
White Turn Arrow (PTP)	Each	X
White Thru Arrow (PTP)	Each	X
White Thru/Turn Arrow (PTP)	Each	X
White Merge Arrow (PTP)	Each	X
White "ONLY" Marking (PTP)	Each	X
White "Railroad Crossing" Symbol (PTP)	Each	X
24" x 36" White Yield Line (PTP)	Each	X
12" x 18" White Yield Line (PTP)	Each	X
White Bike Symbol (PTP)	Each	X
White Bike Symbol (FTP) White Bike Sharrows (PTP)	Each	X
• •	Each	X
White Bike Lane Arrow (PTP)	Each	X
12" White Speed Hump (PTP)		X
Blue & White ISA* Symbol (PTP)	Each	
4" White (PCP) / (CP)	L.F.	X
4" Yellow (PCP) / (CP)	L.F.	X
6" White (PCP) / (CP)	L.F.	X
8" White (PCP) / (CP)	L.F.	X
12" White (PCP) / (CP)	L.F.	X
12" Yellow (PCP) / (CP)	L.F.	X
24" White (PCP) / (CP)	L.F.	X
White Turn Arrow (PCP) / (CP)	Each	X
White Thru Arrow (PCP) / (CP)	Each	X
White Thru/Turn Arrow (PCP) / (CP)	Each	X
White Merge Arrow (PCP) / (CP)	Each	X
White "ONLY" Marking (PCP) / (CP)	Each	X
White "Railroad Crossing" Symbol (PCP) / (CP)	Each	X
24" x 36" White Yield Line (PCP) / (CP)	Each	X
12" x 18" White Yield Line (PCP) / (CP)	Each	X
White Bike Symbol (PCP) (CP)	Each	X
White Bike Sharrows (PCP) / (CP)	Each	X
White Bike Lane Arrow (PCP) / (CP)	Each	X
4" White (P) / (UA)	L.F.	X
4" Yellow (P) / (UA)	L.F.	X
6" White (P) / (UA)	L.F.	X
8" White (P) / (UA)	L.F.	X
12" White (P) / (UA)	L.F.	X
12" Yellow (P) / (UA)	L.F.	X
24" White (P) / (UA)	L.F.	X
White Turn Arrow (P) / (UA)	Each	X
White Thru Arrow (P) / (UA)	Each	X
White Thru/Turn Arrow (P) / (UA)	Each	Х
White Merge Arrow (P) / (UA)	Each	Х
White "ONLY" Marking (P) / (UA)	Each	Х
White "Railroad Crossing Symbol (P) / (UA)	Each	Х
4" White (MMA)	L.F.	Х
Blue & White ISA* Symbol (MMA)	Each	X

Pavement Marking Bid Items

Notes:
These approximate quantities were prepared solely for the contractors convenience as a means of setting forth major items and is not guaranteed to be a complete nor accurate list of all items necessary to complete this work. Other items required for a complete installation, as shown or described shall be included in the prices as bid.

* ISA = International Symbol of Accessibility

<u>Legend</u>

TP - Thermoplastic

PTP - Pre-formed Thermoplastic

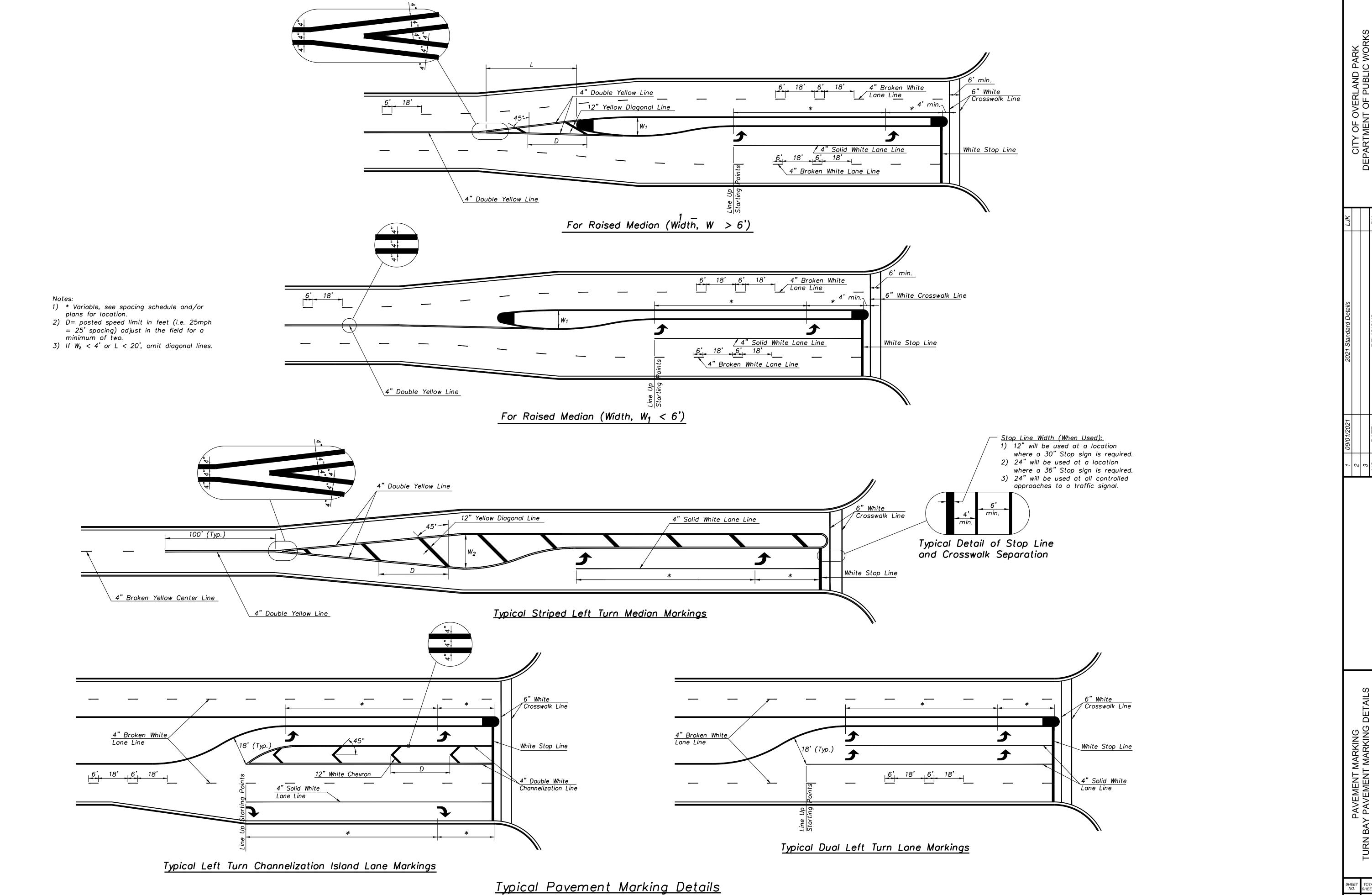
PCP - Patterned Cold Plastic

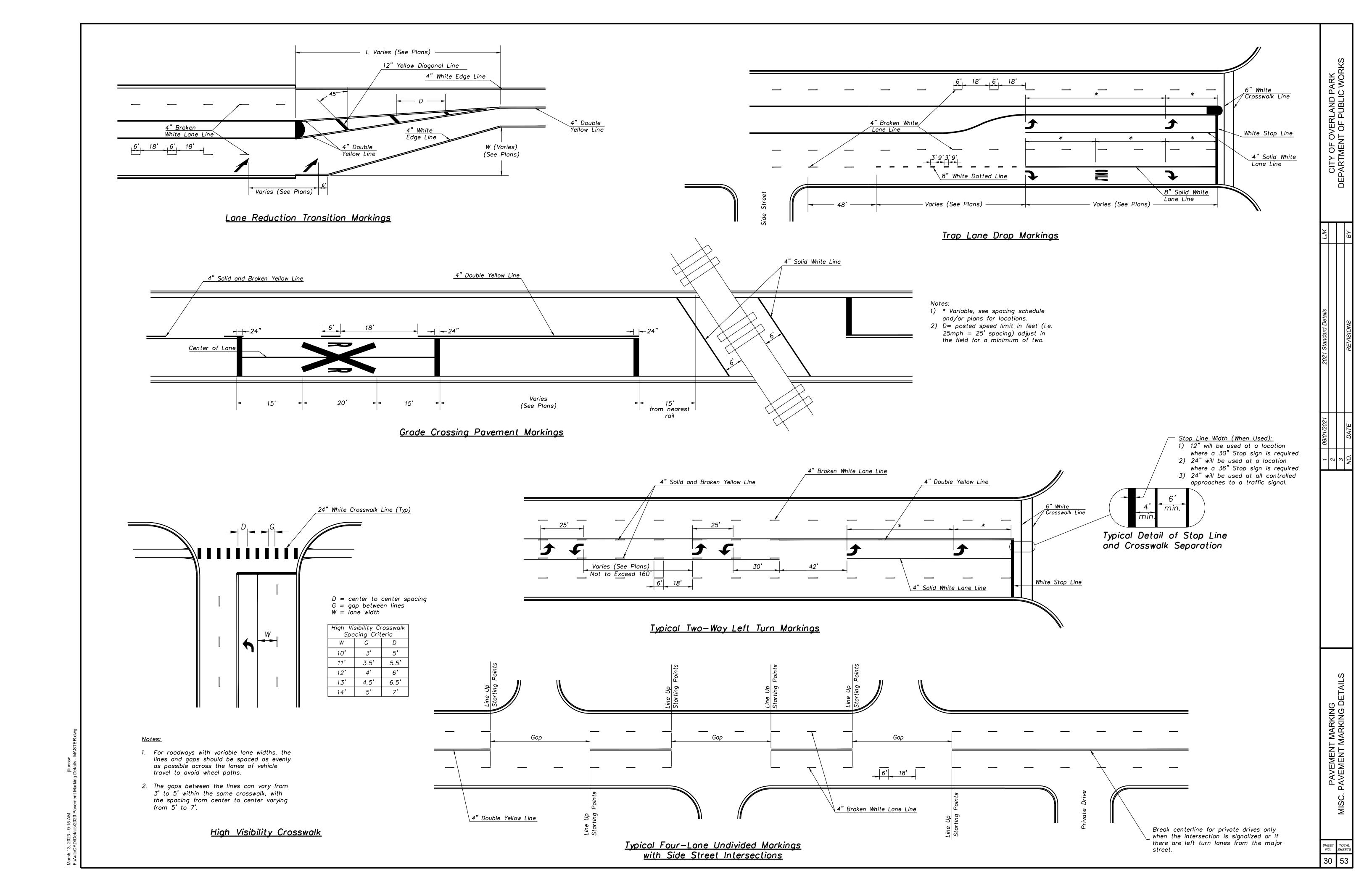
UA - Urethane Acrylate

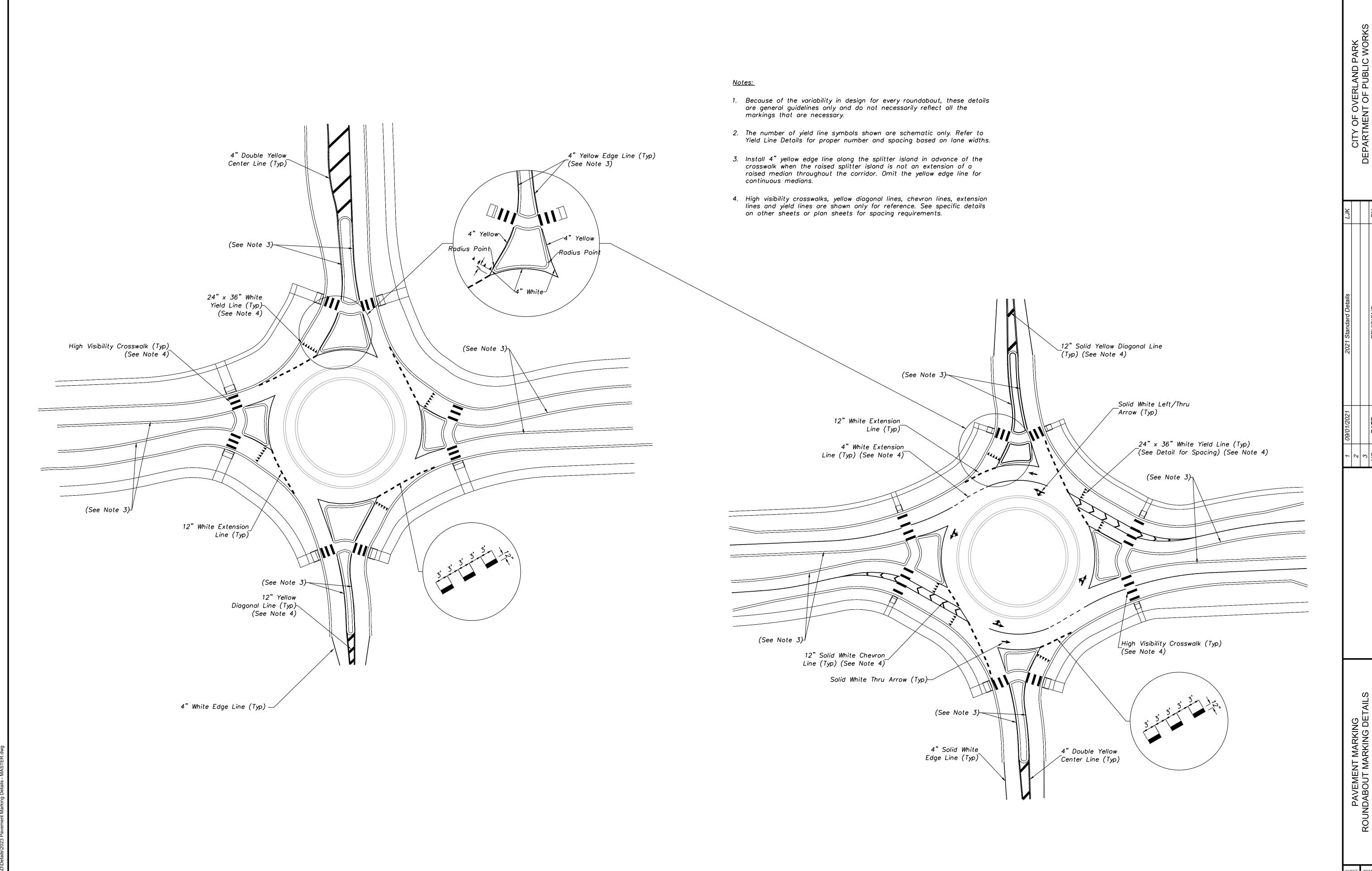
P - Paint CP – Cold Plastic IMP – Integrated Multi-polymer MMA – Methyl Methacrylate

PAVEMENT MARKING BILL OF MATERIALS

CITY OF OVERLAND PARK DEPARTMENT OF PUBLIC WORKS







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31 53

