Tract or Parcel	Project Name	PCN	Checked By	Date
	f Escondido Public Works [-		
Esco	cklist The following checklist is a guidendido. It is for informational purposes beering judgment should always be used	and does not represen	nt City Standards. Th	
A. GENE		1170		
	Standard scale shall be 1"=40'. Applica			clarity is required.
	Show scale and north arrow on each s Existing signing and striping is to be dr labeled.			ned line type and
	Signing and striping to be removed is t type and labeled.	o be drawn using a thin	line weight with a clo	sely spaced dot line
	New signing and striping is to be drawn	n with a thick, solid line	and labeled.	
	Bundle signing and striping plans with			
	Minimal topographic information should Show centerline stations at 100-foot in			h to north or west to
	east and should match stationing on st All streets and driveways should be sh	reet improvement plans		T to north of west to
	Names of all streets should be shown of			
	Call out dimensions from centerline to lane widths.	_	•	·
	Show jurisdictional boundaries with he number when feasible.	•		·
	Show interim and final signing/striping Show existing improvements on adjace improvements.			
B. SIGNA	·			
	All proposed and existing signage show			uction note, its CA
_	MUTCD designation and have its locat Plans should include a table (or equal)			t the CA MUTCD sign
	number, an icon of the sign, its size, ty installation height.			
	Sign number should be per the latest e shall be followed with a (CA) designation		ว manual. Sign numb	ers unique to California
	Install signs on Telespar square tubula breakaway post requirements.	. , ,	-	•
	Proposed sign installation height and la All regulatory and warning signs are to signs except parking restriction signs s	use a minimum of Dian hall use a minimum of H	nond grade reflective High-Intensity grade s	sheeting. All other
STOP:	restriction signs are to use a minimum	or Engineering grade sr	ieeting.	
	Stop signs (R1-1) to be typically locate	d as close to BCR as fe	asible.	
	Stop sign size guidelines:			
	Median nose and bike/equestrian/goLocal/local street intersections (2-w)			
	 Local street stopping at Major street 		7 X 30 .	
	Major street stops - 48" x 48".			
	R1-3 (4-way) signs at all 4-way stop lo			
	R1-4 (All-Way) at all 3-way stop location W4-4p (Cross Traffic Does Not Stop) s			
	W3-1 (Stop Ahead) signs to be placed		speeds of 35mph or a	reater. Signs can be
_	placed on slower streets as circumstar			
	MUTCD Table 2C-4 as a guideline. Flashing red beacons can be used in cunexpected rural stops, restricted sight		ns located in unusual	situations (e.g.
	anospecieu ruiai siops, resincieu signi	uisianice, Elli.)		

_	ONTAL ALIGNMENT:
	W1-8 (single chevron) signs (18" x 24") can be installed on curves as warranted (min. quantity of 3).
	W1-2 (Curve Ahead) or W1-1 (Turn Ahead) sign should be used as warranted. Advisory Speed plaque
	(W13-1) to be used if advised speed is lower than regulatory speed. Distance for placement of sign prior to
_	curve to be determined using CA MUTCD Table 2C-4 as a guideline.
	Lane drops may use Class I Type 'F' delineators in transition taper if appropriate.
	D LIMIT:
Ц	R2-1 speed limit sign (24"x 30") should be located downstream (between 100' to 300' depending on
MEDIA	speed) of major cross streets and no more than ½ mile apart.
MEDIA	
Ц	Typical median nose treatment includes: R4-7 "Keep Right" symbol (24"x 30"), OM1-1 yellow object marker (18" x 18"). Smaller R4-7 (18" x 24") and OM1-1 (12" x 12") signs can be used at locations that are
	less than 3' in width.
П	R4-7a "Keep Right" (text with arrow) can be used in non-median applications as needed.
	OM2-1H or OM2-IV can be used in place of OM1-1 due to clearance issues or on private medians.
	R6-1 "One Way" sign (36" x 12") are to be located on median noses where cross street traffic has left out
_	capability. Location and orientation should be per CA MUTCD Figure 2B-14(CA) (median nose only).
	R6-1 "One Way" sign should be placed in median facing minor street that is right turn only.
	W6-1 (divided road) and W6-3 (two way traffic) warning signs should be used for locations where medians
	begin or end at non-intersection locations.
	Signs in painted medians should be avoided. If necessary for special circumstances, utilize a 15 ft.
	Setback from the cross street flow line.
	Signs located in painted medians or shoulders must meet City requirement for breakaway post.
GUIDE	SIGNS:
	secondary roadways in curbed medians. When median placement is not feasible, shoulder/parkway
	placement can be used. Distance in advance of intersection for sign placement should be approximately
	500'. D3-1 signs shall use 6" upper case and 4 1/2" lower case white letters on a green background.
	TURN /DROP/TRAP LANES:
	Exclusive right turn pockets of 100' or longer shall have a R3-7 RIGHT LANE MUST TURN RIGHT sign
_	located at end of taper / beginning of storage area.
Ц	Lane drops to include W9-1 RIGHT (LEFT) LANE ENDS sign in advance of W4-2 LANE ENDS SYMBOL
_	sign. Refer to CA MUTCD Figure 3B-12(CA) (sheet 1 of 3) for placement details.
	Trap lanes to include R3-7 RIGHT (LEFT) LANE MUST TURN RIGHT sign at beginning of 8" white line.
	Advance warning signage should be a W73A(CA) RIGHT (LEFT) LANE TURNS RIGHT AHEAD sign which is to be proceeded by a W4-7 THRU TRAFFIC MERGE LEFT (RIGHT) sign. Refer to CA MUTCD
	Figure 3B-12(CA) (sheet 3 of 3) for placement details.
END O	FROAD:
	Dead End/Cul-de-sac streets should have a red OM4-1 object marker with a W31(CA) END sign.
	W31A(CA) "ROAD ENDS XX FEET" sign should be used where appropriate based on speed and distance
	from previous cross street.
П	W14-2 "NO OUTLET" sign can be placed between 50' to 100' past the last intersection with alternate
_	routes available. W14-2 sign should only be used when road termination is not obvious to drivers or
	special situations are present.
	WI-7 (double-headed directional arrow) & OM1-1 (yellow object marker) to be located at top of Tee
	intersections.
	W8-3 "PAVEMENT ENDS" sign can be used where paved roadway continues as an unpaved road.
	CART/ HORSE CROSSINGS:
	Golf cart (W11-11) and Horse (W11-7) Crossing signs should be located at locations where established
	trails cross a street.
PEDES	STRIANS:
	All pedestrian warning signs should have fluorescent yellow-green sheeting. Existing standard yellow
	pedestrian warning signage to remain should be replaced with new fluorescent yellow-green sheeting.
	Marked crosswalks at uncontrolled intersections should have W11-2 (30" x 30") with W16-7p (24" x 12")
_	placed at crosswalk location (one each side).
_	Distance to be per CA MUTCD Table 2C-4, Condition B-0.
	At locations where pedestrian crossings are to be restricted a combination of R9-3a and R9-3b signs

should be used. Call out for R9-3b sign should indicate direction (LT or RT).

PARKII	NG RESTRICTION:
	Use of parking restrictions is to be minimized as much as possible.
	Parking restriction signage and red curb should not be placed in areas where parking is already illegal (i.e.
	improved roadways with a curb lane of 14' or less or a bike lanes of 6' or less in width) unless parking
	pressure from nearby land use creates parking problem. R7-9a signs may be placed along Class II bike
	lanes where parking issues can be expected.
	R26(CA) "NO PARKING ANY TIME" sign is City's standard parking restriction sign. Typical spacing is to
	range from 200' for local streets with severe parking pressure to 500' on high speed arterials. R26(S) "NO
	STOPPING ANY TIME" signs and red curb can be used if required. Other parking restriction signs, such
_	as those with arrows, times of day, time limits, etc., can be used under special circumstances.
	R81A "BEGIN" and R81B "END" signs can be added beneath parking restriction sign when beginning and
	ending point for restriction needs to be clearly defined.
	DABOUTS:
Ц	The signing for roundabouts should be according to the proposed revisions to the CAMUTCD which can
SCHO	be found at http://mutcd.fhwa.dot.gov/resources/proposed_amend/
	Signage in School areas to be done per CA MUTCD Figure 7B-2(CA) and 7B-3(CA).
	All school warning signs should have fluorescent yellow-green sheeting. Existing standard yellow school
ш	warning signage to remain should be replaced with new fluorescent yellow-green sheeting.
П	R26(S) NO STOPPING ANY TIME signs should be used to accommodate storage requirements for
_	moving queue of cars where anticipated for pick-up and/or drop-off.
BIKE L	
	R81(CA) (12" x 8") "BIKE LANE" sign shall be installed at the beginning and ending point of any Class II
	bike lane and immediately after each crossing of a major roadway.
	R81A(CA) "BEGIN" sign should be installed underneath R81(CA) at the beginning point of any Class II
	bike lane.
	R81B(CA) "END" sign should be installed underneath R81(CA) at the ending point of any Class II bike
	lane.
	R7-9a "NO PARKING BIKE LANE" sign should be placed along Class II bike lanes when parking needs to
	be restricted. Sign spacing should be approximately 500 ft on urban arterials and 1000 ft for rural arterials.
	R4-4 "BEGIN RIGHT TURN YIELD TO BIKES" sign should be used where a Class II bike lane continues
	on the left side of a dedicated right turn lane. Locate at beginning of bike land/right turn lane weaving area.
SIGNA	
	W3-3 "SIGNAL AHEAD" signs should be used on roadways with a posted speed limit in excess of 40mph
	and without a controlled intersection within ½ mile prior. W3-3 should also be used when sight distance
DICLIT	approaching a signal is a concern.
	OUT ONLY: P3.5 "MANDATORY DICHT TURN" sign can be used where a single lane of treffic is switing and must turn
ш	R3-5 "MANDATORY RIGHT TURN" sign can be used where a single lane of traffic is exiting and must turn right. If used, it should be placed undergoath the step sign (R1.1) and supplemented with a R6.1 "ONE
	right. If used, it should be placed underneath the stop sign (R1-1) and supplemented with a R6-1 "ONE WAY" sign on median of through street.
	T ENTER:
	R51-1 "DO NOT ENTER" sign should be placed on entryways and internal drive isles where wrong way
_	drivers would create an undue hazard. R5-1a "WRONG WAY" sign can supplement R5-1 sign when
	additional warning is desired.
STRIPI	NG/LEGENDS
	All striping and legends to be in paint. No thermoplastic allowed.
	Striping and legend detail callouts shall be per the latest edition of the CA MUTCD manual.
LANE	LINES:
	For roadways with posted speeds of 40 mph or less, use a 4" white dashed lane line per Detail 9 striping.
	For roadways with posted speeds of 45 mph or greater, use a 4" white dashed lane line per Detail 12
	striping.
	Lane widths should be per the City of Escondido General Plan, Roadway Cross-Sections. Variations from
_	standard cross-sections should be pre-approved by the City's Public Works Department.
	Maximum lane width on outside lane (without parking) should be 16'.
	Lane lines should break at intersections. Breaks should extend from ½ delta to ½ delta of intersecting
	street. Breaks are to occur only on side of street with intersecting roadway.
	A 4" solid white lead line with Type 'G' RPMs at 25' spacing should be used for each lane line where it breaks across an intersection. 100' of lead line on the approach side and 50' on the departure side. As
	broaks across an intersection. Too or lead line on the approach side and so on the departure side. As

there is no detail for lead lines in the CA MUTCD, they should be called out in construction notes.

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	When lane lines are offset over an intersection, Detail 40 (cat track) striping should be considered as lane
_	line extension through the intersection.
CENT	Minimize gore areas as much as possible through utilization of edge striping, bike lanes, etc. ERLINES:
	Double yellow centerline shall be Detail 22 striping.
	Skip yellow centerline shall be Detail 2 striping.
MEDIA	
	Raised median islands shall have yellow RPMs placed along their length per Detail 26.
	Raised median noses should be painted yellow with yellow RPMs on top of curb to improve visibility.
	Raised medians using AC berm should have berm painted solid yellow.
	Painted median islands shall use Detail 29 striping.
	Painted median islands should not extend past limit line/back of crosswalk.
	When appropriate to accommodate cross street left turns, painted median noses shall have a flare using a
_	5:1 parabolic curve.
	Minor side streets with medians should have Detail 29 flared nose that extends from flowline to full width
	median.
Ш	Raised medians at gated entrances should be extended with Detail 22 or 29 striping to limit line as appropriate.
	Striped "Pork Chop" islands should consist of 8" white solid stripe (with RPMs @ 1' to 4' O.C. if needed).
	Yellow diagonals (for opposing traffic) and white chevrons (for same direction traffic) in islands should be
_	8" stripe. Normal spacing to be 20' O.C.
ROUN	IDABOUTS:
	The striping for roundabouts should be according to the proposed revisions to the CAMUTCD which can
	be found at http://mutcd.fhwa.dot.gov/resources/proposed_amend/
	WAY LEFT TURN LANES:
	Two-way left turn lanes shall use Detail 32 striping.
	Type IV turn arrows are <u>not</u> normally used in two way left turn lanes.
_	LINES: 4" white addeline per Detail 27h should be used along adde of payament with no congrete ourb and along
ш	4" white edgeline per Detail 27b should be used along edge of pavement with no concrete curb and along AC dike on right side of roadway.
П	4" yellow edgeline per Detail 25 can be used along temporary AC medians (constructed as a temporary
_	condition) prior to concrete curbed median.
TURN	LANES;
	Use 8" white stripe for turn pocket lanes per Detail 38.
	Type IV arrows shall be installed in each turn pocket at 8' back of limit line/front of pocket. For turn pockets
	that are longer than 60' in length, a Type IV arrow shall be placed at the back of pocket. For pockets 150'
	or longer an additional arrow should be placed at the midpoint of the pocket.
	Bay tapers for pockets should measure 60' for approach speeds of 30mph or less; 90' for 35 to 40mph and
	120' for speeds of 45mph and over.
	Deceleration lanes are to be installed at locations that are projected to have 50 or more right turns per hou during a peak hour or along certain high speed/high volume roadways as determined by the City's Traffic
	Engineer. See Engineering Bulletin #06-13 for more information on design lengths.
	Dual left or right turns shall be cat tracked through an intersection using Detail 40a, non-reflective white
_	markers.
TAPE	
	Taper lengths are to be calculated using the following formulas:
	 For speeds of 45mph or more – Taper length = offset X posted speed
	 For speeds of 40mph or less – Taper length = [offset X (posted speed)²] / 60
	8" white stripe may be used for tapers if additional emphasis is needed.
	Tapers should start a minimum of 100' from intersections.
	DROPS:
	Lane drop markings and signage should be modeled after CA MUTCD Figure 3B-12(CA) (sheet 1 of 3). Type VI lane drop arrows are normally used for all speeds.
	Type "F" markers can be used in transition taper if appropriate. Minimum of 3 markers spaced no more
	than 200' apart. Actual quantity and spacing dependent on speed and taper length.
TRAP	LANES:
	Use 8" white stripe per Detail 38 at intersection. Length proceeded by an 8" dashed white stripe per Detail
	37B (elephant tracks). Detail 37B striping can range from 150' to 300' in length dependent on approach
	speed and geometric considerations.

	· / F · · · · · · · · · · · · · · · · ·
	longer than 60' in length shall have a Type IV arrow placed 8' back of limit line/front of pocket. For lanes
	with a Detail 38 stripe longer than 150' in length an additional arrow should be placed at the midpoint of
	the pocket.
	LANES:
	Use 6" white solid stripe per Detail 39.
	Use 6" white dashed stripe per Detail 39A for approach to intersections. Length of Detail 39A should be from 100' to 200' depending on approach speed of vehicular traffic.
	For non-standard cross-sections or low speed roadways, 6' bike lane should be used. Minimum width is 5'
_	with curb and gutter; 4' with edge of pavement.
	right turn lanes. For situations where there is a major right turn traffic movement that though bicyclists must negotiate, a R4-4 "BEGIN RIGHT TURN LANE – YIELD TO BIKES" (36"x30") with "cat tracking" should be
	considered.
	immediately following a major cross street adjacent to R81 sign and at least every ½ mile.
_	P BARS/CROSSWALKS:
	the cross street curb. See City Standard Plans and Figure 2A-2(CA) of the CAMUTCD for proper placement.
	Standard crosswalk consists of two 12" white painted stripes generally separated by 10' inside (i.e. 11' center to center).
	and the second of the second o
	Installing crosswalks across intersection legs should be provided only where there is a need to channelize
	pedestrians to optimize safety. Standard offset is 6' between median and crosswalk.
	- 1 · 1 · 1 · 1 · 1 · 1 · 1 · 1 · 1 · 1
	"STOP AHEAD" legends should be used in conjunction with W3-1 "STOP AHEAD" signs. Signs and
	legends normally used on streets with posted speeds of 35 mph or higher or at locations with sight
	distance issue.
	that require special emphasis or have sight distance issues.
MISC	ELLANEOUS:
	Type VII (straight & turn) arrow marking should be placed in curb lane of multilane roadways with speed
_	limits of 50mph or higher prior to major intersections if no dedicated turn lane is provided. Arrows should
	be placed at 8' and 250' behind limit line/BCR.
	Type I (straight thru) arrows are to be used only when possibility of wrong way drivers is significantly high.
	Pavement less than 500 ft in length is normally not considered a through traffic lane and should have an
	alternate treatment provided.
	Type "g" one-way clear reflectorized RPMs should be used at splitter, isolation and pork chop islands with1' to 3' spacing)
	Placement should be offset 6" from centerline on side closest to hydrant.