<table>
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<th>TITLE</th>
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<td>DS-20A</td>
<td>CLEAR SPACE EASEMENT TYPE A</td>
</tr>
<tr>
<td>DS-20B</td>
<td>CLEAR SPACE EASEMENT TYPE B</td>
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<td>DS-20C</td>
<td>LIMITED USE AREA - TYPE A</td>
</tr>
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<td>DS-20D</td>
<td>LIMITED USE AREA- TYPE B</td>
</tr>
<tr>
<td>DS-21A</td>
<td>CURB RAMP - TYPES A (NEW CONSTRUCTION)</td>
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<td>DS-21B</td>
<td>CURB RAMP - TYPES B (NEW CONSTRUCTION)</td>
</tr>
<tr>
<td>DS-21C</td>
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<td>DS-21D</td>
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</tr>
<tr>
<td>DS-21E</td>
<td>GENERAL NOTES FOR CURB RAMPS</td>
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<tr>
<td>DS-21F</td>
<td>CURB RAMP DETAILS</td>
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<tr>
<td>DS-22</td>
<td>TRENCH RESURFACING TYPE R</td>
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<tr>
<td>DS-23A</td>
<td>CABLE RAILING FOR RETAINING WALL</td>
</tr>
<tr>
<td>DS-23B</td>
<td>CABLE RAILING DETAILS</td>
</tr>
</tbody>
</table>
NOTES:
1. REFER TO SAN DIEGO COUNTY PUBLIC ROAD STANDARDS (PRS) FOR ADDITIONAL ROADWAY REQUIREMENTS.

2. ADDITIONAL ROAD SURFACING AND R/W MAY BE REQUIRED FOR MOBILITY ELEMENT ROADS IN INDUSTRIAL/COMMERCIAL ZONES (4 FEET AND 12 FEET RESPECTIVELY).

3. ADDITIONAL 12 TO 14 FEET OF ROAD SURFACING AND R/W IS REQUIRED FOR EACH ADDITIONAL TURN LANE.

4. MOBILITY ELEMENT ROADS DESIGNATED WITH BIKE LANES WILL REQUIRE AN ADDITIONAL 10-12 FEET OF ROAD SURFACING AND R/W. THROUGH TRAFFIC LANES ADJACENT TO BIKE LINES REQUIRE 13 FEET WIDE LANES. REFER TO COUNTY OF SAN DIEGO PUBLIC ROAD STANDARDS, SECTION 7, "BIKEWAYS".

5. INTERIM ROADS SHALL HAVE A MINIMUM WIDTH OF 28 FEET OF A.C. ROAD SURFACING WITHIN 40 FEET OF GRADED ROAD BED. WIDTHS WILL BE LARGER IF TRAFFIC VOLUMES REQUIRE MORE TRAVEL LANES.

6. EARTHWORK AND ALL CUT AND FILL SLOPE INCLINATIONS SHALL CONFORM TO THE COUNTY GRADING ORDINANCE.
NOTES:

1. This standard is applicable only to Category 2 Hillside Residential Streets as defined in the County of San Diego Public Road Standards.

2. Use of Hillside Residential Street Standards are applicable only to non-mobility element streets classified as residential, residential cul-de-sac, or residential loop streets, and are not applicable to streets in areas zoned for commercial, industrial, or multiple residential use.

3. Curb and gutter (C&G) shall conform to San Diego Area Regional Standard Drawings (RSD), County of San Diego Public Road Standards, and these design standards.

4. One 600 square feet perpendicular parking bay required per lot. The County Engineer may also establish alternate standard typical sections which will provide a minimum of two parking stalls per lot.

5. Earthwork and cut and fill slopes shall conform to requirements of the County of San Diego Grading Ordinance.

SAN DIEGO COUNTY DESIGN STANDARD

HILLSIDE RESIDENTIAL STREET ALTERNATIVE NO. 1

RECOMMENDED BY: JEFF S. MOODY, P.E.
APPROVED BY COUNTY ENGINEER:

DATE: 10/15/12

DRAWING NUMBER DS-02
NOTES:

1. THIS STANDARD IS APPLICABLE ONLY TO CATEGORY 2 HILDSIDE RESIDENTIAL STREETS AS DEFINED IN THE COUNTY OF SAN DIEGO PUBLIC ROAD STANDARDS.

2. USE OF HILLSIDE RESIDENTIAL STREET STANDARDS ARE APPLICABLE ONLY TO NON-MOBILITY ELEMENT STREETS CLASSIFIED AS RESIDENTIAL, RESIDENTIAL CUL-DE-SAC, OR RESIDENTIAL LOOP STREETS, AND ARE NOT APPLICABLE TO STREETS IN AREAS ZONED FOR COMMERCIAL, INDUSTRIAL OR MULTIPLE RESIDENTIAL USE.

3. CURB AND GUTTER (C&G) SHALL CONFORM TO THE SAN DIEGO AREA REGIONAL STANDARD DRAWINGS (RSD), COUNTY OF SAN DIEGO PUBLIC ROAD STANDARDS, AND THESE DESIGN STANDARDS.

4. LAKHWIRK AND ALL CUT AND FILL SLOPES SHALL CONFORM TO REQUIREMENTS OF THE COUNTY OF SAN DIEGO GRADING ORDINANCE.

SAN DIEGO COUNTY DESIGN STANDARD

HILDSIDE RESIDENTIAL STREET
ALTERNATIVE NO. 2

DRAWING NUMBER DS-03

REVISIONS APPROVED DATE

REV JSM 10/2012
RIGHT OF WAY (R/W)

HINGE POINT (HP)

~ PARKWAY / PATHWAY ~

TOP OF CURB (TC)

~ DRIVING LANE ~

TYPE G CURB & GUTTER (C&G) (RSD G-2)

TRAVELED WAY №

STREET №

~ DRIVING LANE ~

~ SHOULDER / PARKING LANE ~

TYPE G C&G (RSD G-2)

~ PARKWAY / PATHWAY ~

HP

TC

R/W

PLAN
NO SCALE

* MAX 3% CROSSFALL OR SUPERELEVATION
** SLOPE INCLINATION SHALL CONFORM TO THE COUNTY OF SAN DIEGO GRADING ORDINANCE.

TYPICAL ROADWAY SECTION
NO SCALE

NOTES:
1. THIS STANDARD IS APPLICABLE ONLY TO CATEGORY 2 HILLSIDE RESIDENTIAL STREETS AS DEFINED IN THE COUNTY OF SAN DIEGO PUBLIC ROAD STANDARDS (PRS).
2. USE OF HILLSIDE RESIDENTIAL STREET STANDARDS ARE APPLICABLE ONLY TO NON-MOBILITY ELEMENT STREETS CLASSIFIED AS RESIDENTIAL, RESIDENTIAL CUL-DE-SAC, OR RESIDENTIAL LOOP STREETS, AND ARE NOT APPLICABLE TO STREETS IN AREAS ZONED FOR COMMERCIAL, INDUSTRIAL OR MULTIPLE RESIDENTIAL USE.
3. CURB AND GUTTER (C&G) SHALL CONFORM TO THE SAN DIEGO AREA REGIONAL STANDARD DRAWINGS (RSD), THE COUNTY OF SAN DIEGO PUBLIC ROAD STANDARDS, AND THESE DESIGN STANDARDS.
4. EARTHWORK AND ALL CUT AND FILL SLOPES SHALL CONFORM TO REQUIREMENTS OF THE COUNTY OF SAN DIEGO GRADING ORDINANCE.

SAN DIEGO COUNTY DESIGN STANDARD

HILLSIDE RESIDENTIAL STREET
ALTERNATIVE NO. 3

DRAWING NUMBER DS-04
SECTION A-A

LEGEND

A. PROVIDE DIKE OPENING FOR DRAINAGE WHEN REQUIRED

B. PERMANENT STREET SURFACING

C. CONCRETE GUTTER (SEE DETAIL)

D. TYPE G CURB & GUTTER (C&G) PER RSD G-2

E. TYPE B DIKE PER RSD G-5

F. SUBDIVISION LINE

G. GUARD POST BARRICADE PER RSD M-9

CONCRETE GUTTER DETAIL

NOTE: 2" MIN A.C. ON ADEQUATE BASE AS SPECIFIED BY THE ENGINEER

TEMPORARY TURNAROUND

NOTES:
1. FOR USE ON EITHER 36' OR 40' WIDE STREETS.
2. R=26' OR 1/2 R/W-2' WHICHEVER IS GREATER.
### SAN DIEGO COUNTY DESIGN STANDARD

**TURNAROUND**

**DETAIL AND CALCULATIONS**

**DRAWING NUMBER** DS-06

---

**DIMENSIONS**

<table>
<thead>
<tr>
<th>R/W</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>Δ</th>
<th>CURB</th>
<th>PROP.</th>
<th>Δ</th>
<th>CURB</th>
<th>PROP.</th>
</tr>
</thead>
<tbody>
<tr>
<td>52'</td>
<td>26'</td>
<td>16'</td>
<td>10'</td>
<td>50.95'</td>
<td>42°42'30&quot;</td>
<td>32'</td>
<td>26.09'</td>
<td>13.82'</td>
<td>22'</td>
<td>17.93'</td>
</tr>
<tr>
<td>56'</td>
<td>28'</td>
<td>18'</td>
<td>10'</td>
<td>50.99'</td>
<td>42°50'00&quot;</td>
<td>37'</td>
<td>27.66'</td>
<td>14.52'</td>
<td>27'</td>
<td>20.18'</td>
</tr>
<tr>
<td>60'</td>
<td>30'</td>
<td>20'</td>
<td>10'</td>
<td>68.15'</td>
<td>25°35'31&quot;</td>
<td>100'</td>
<td>51.55'</td>
<td>26.41'</td>
<td>90'</td>
<td>46.48'</td>
</tr>
<tr>
<td>72'</td>
<td>36'</td>
<td>26'</td>
<td>10'</td>
<td>81.36'</td>
<td>32°51'36&quot;</td>
<td>100'</td>
<td>57.35'</td>
<td>29.49'</td>
<td>90'</td>
<td>51.62'</td>
</tr>
</tbody>
</table>

**CURVE 1**

**CURVE 2**

---

**REVISIONS**

**APPROVED**

**DATE** 10/2012

---

**DRAWN BY** PBM

**CHECKED BY** JSM

**RECOMMENDED BY** JEFF S. MOODY, P.E.

**APPROVED BY COUNTY ENGINEER**

**DATE** 10/15/12

---

**TOP OF CURB (TC)**

**LIP OF GUTTER (LG)**

**RIGHT OF WAY (R/W)**

---

**TURNAROUND**

**NO SCALE**
DRIVEWAY PAVING SCHEDULE

<table>
<thead>
<tr>
<th>DEPTH OF A.C.</th>
<th>GRADE</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.17 (2&quot;)</td>
<td>0-15%</td>
</tr>
<tr>
<td>0.25 (3&quot;)</td>
<td>15-20%</td>
</tr>
<tr>
<td>0.33 (4&quot;)</td>
<td>20-25%</td>
</tr>
<tr>
<td>ALL A.C OVER 0.33 (4&quot;) MINIMUM CL II AB</td>
<td></td>
</tr>
</tbody>
</table>

COMPACT ENTIRE STRUCTURAL SECTION TO 95% RELATIVE COMPACTION

PROFILE NO SCALE

**SLOPE INCLINATIONS SHALL CONFORM TO THE COUNTY OF SAN DIEGO GRADING ORDINANCE**

TYPICAL SECTION NO SCALE

NOTES:

1. DRIVEWAY PROFILE, WIDTH (W) AND LENGTH (L) SHALL BE SHOWN ON PLANS.
2. DRIVEWAYS WITH GRADES GREATER THAN 15% SHALL BE SURFACED WITH ASPHALT CONCRETE (AC) OR PORTLAND CEMENT CONCRETE (PCC).
3. MAXIMUM GRADE BREAK 14% (5' MINIMUM VERTICAL CURVE PREFERRED).
4. SEE SAN DIEGO AREA REGIONAL STANDARD DRAWINGS G-15 & G-16 FOR DRIVEWAY LOCATION & WIDTH REQUIREMENTS AND G-14 SERIES FOR PCC DRIVEWAYS.
5. WHEN ROADWAY GRADE EXCEEDS 5% THE DOWNSLOPE PARKWAY SHALL BE SURFACED WITH 0.17 (2") THICK A.C. BETWEEN THE A.C. DIKE AND HINGE POINT FOR A DISTANCE OF 15 LF FROM THE EDGE OF DRIVEWAY. THE A.C. SURFACING SHALL MATCH THE PARKWAY GRADE.
6. ALL DRIVEWAYS SHALL SATISFY COUNTY SIGHT DISTANCE REQUIREMENTS.

SAN DIEGO COUNTY DESIGN STANDARD

ASPHALT CONCRETE DRIVEWAY

DRAWING NUMBER DS-07

RECOMMENDED BY: JEFF S. MOODY, P.E.
APPROVED BY COUNTY ENGINEER

DRAWN BY: [Signature]
CHECKED BY: [Signature]
REVISIONS APPROVED DATE
REV JSM 10/2012
TYPICAL FINISHED GRADING
NO SCALE

NOTES:
1. ELEVATION "A" IS LOCATED AT THE MOST REMOTE CORNER OF THE LOT FROM THE DRAIN
   POINT "ELEVATION B". ELEVATION "A" SHALL EQUAL ELEVATION "B" PLUS 1% TIMES
   ONE-HALF THE PERIMETER OF THE LOT.
2. DRAINAGE LOOP SWALE SHALL HAVE 1% MINIMUM GRADIENT TOWARDS STREET OR OTHER
   DISCHARGE POINT.
3. ALL SLOPE SURFACES SHALL BE PROTECTED BY APPROVED EROSION CONTROL MATERIAL

SAN DIEGO COUNTY DESIGN STANDARD
LOT GRADING

DRAWN BY: PBM  CHECKED BY: JSW
RECOMMENDED BY: JEFF S. MOODY, P.E.
APPROVED BY COUNTY ENGINEER

Mohammad Fakhreddine, P.E.
R.C.E. No. 44520, Exp. 3/31/2014

REVISIONS APPROVED DATE
REV JSM 10/2012

DRAWING NUMBER DS-08
FENCING CUT BANKS
NO SCALE

** SLOPE INCLINATION SHALL CONFORM TO THE CURRENT COUNTY OF SAN DIEGO GRADING ORDINANCE.

3' - 5'
SEE DS-10
FENCE HEIGHT (H) TO BE SHOWN ON PLAN.

DETAIL A
NO SCALE
BROW DITCH (RSD D-75)

FENCE DETAILS TO BE SHOWN ON PLANS
RETAINING WALL DETAILS TO BE SHOWN ON PLANS

FENCING RETAINING WALLS
FOR WALL HEIGHTS GREATER THAN 4 FT.
NO SCALE

NOTES:
1. CHAIN LINK FENCE OR ALTERNATE FENCE ACCEPTABLE TO THE COUNTY ENGINEER SHALL BE INSTALLED ALONG THE TOP OF SLOPES EXCEEDING 15 FEET VERTICAL HEIGHT AND 3:1 (HORIZONTAL:VERTICAL) SLOPE AND ALONG THE TOP OF ALL WALLS EXCEEDING 4 FEET VERTICAL HEIGHT.

2. RETAINING WALLS AND FENCES SHALL BE CONSTRUCTED IN ACCORDANCE WITH SAN DIEGO COUNTY APPROVED PLANS.

SAN DIEGO COUNTY DESIGN STANDARD

FENCING
CUT BANKS AND WALLS

DRAWING NUMBER DS-09
FOR FENCING REQUIREMENTS SEE DS-09
FOR SETBACK REQUIREMENTS SEE DS-11

ORIGINAL GROUND (OG) SURFACE

FINISH GRADE (FG) SURFACE

SEE DETAIL A

TYPICAL CUT SLOPE
NO SCALE

** SLOPE INCLINATION SHALL CONFORM TO THE CURRENT COUNTY OF SAN DIEGO GRADING ORDINANCE

SLOPE ROUNDING
SEE TABLE 2

DETAIL A
NO SCALE

P/L
L
L
OG (CUT SLOPE)
FG

SLOPE ROUNDING
SEE TABLE 2

DETAIL B
NO SCALE

SLOPE ROUNDING
SEE TABLE 2

NOTES:

1. BROW DITCH PER RSD D-75
2. TERRACE DITCH PER RSD D-75
3. REMOVE SOIL MANTLE
4. BENCHES REQUIRED FOR ORIGINAL GROUND SLOPE GREATER THAN 5:1
5. ALL FILL MUST BE COMPACTED TO A MINIMUM 90% RELATIVE COMPACTION (RC) EXCEPT FOR THE OUTER 8" OF SLOPE SURFACE WHICH MAY BE GRID ROLLED TO 85% RC

TABLE 2
SLOPE ROUNDING

<table>
<thead>
<tr>
<th>H FEET</th>
<th>L FEET</th>
</tr>
</thead>
<tbody>
<tr>
<td>0'-5'</td>
<td>2.5'</td>
</tr>
<tr>
<td>5'-20'</td>
<td>5'</td>
</tr>
<tr>
<td>20'-40'</td>
<td>10'</td>
</tr>
<tr>
<td>OVER 40'</td>
<td>10'</td>
</tr>
</tbody>
</table>

SEE DETAIL A

TYPICAL FILL SLOPE
NO SCALE

SAN DIEGO COUNTY DESIGN STANDARD

GRADING OF SLOPES

DRAWN BY: PDM
CHECKED BY: JSM
RECOMMENDED BY: JEFF S. WOODER, P.E.
APPROVED BY: COUNTY ENGINEER

DATE: 10/12/12

DRAWING NUMBER DS-10
**Slope Inclination Shall Conform With the Current County of San Diego Grading Ordinance**

### Building Setbacks

**Required Setbacks**

<table>
<thead>
<tr>
<th>H Feet</th>
<th>A</th>
<th>B</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-15</td>
<td>1'-6&quot;</td>
<td>5'</td>
<td>3'</td>
</tr>
<tr>
<td>15-30</td>
<td>3'</td>
<td>5'</td>
<td>5'</td>
</tr>
<tr>
<td>OVER 30</td>
<td>5'</td>
<td>5'</td>
<td>5'</td>
</tr>
</tbody>
</table>

**Notes:**
- A = Distance from toe of slope to property line.
- B = Distance from edge of foundation to toe or top of slope.
- D = Distance from top of slope to property line.
- H = Total slope height measured vertically.

**Drawn By:** PBL  
**Checked By:** JSW  
**Recommended By:** Jeff S. Woody, P.E.  
**Approved By:** County Engineer  
**Recommended By:** Mohamad Faqih, P.E.  
**R.C.E. No. 44520, Exp. 3/31/2014**

**San Diego County Design Standard**

**Required Setbacks**

**Drawing Number** DS-11
STREET NAME SIGN FOR UNSIGNALIZED INTERSECTIONS

SAN DIEGO COUNTY DESIGN STANDARD

DRAWN BY: GE
CHECKED BY: KJS
RECOMMENDED BY: JEFF S. MOODY, P.E.
APPROVED BY COUNTY ENGINEER

DRAWING NUMBER DS-13A

REVISIONS APPROVED DATE
NEW JSM 10/2012

SEE NOTES ON DS-13B FOR ADDITIONAL SPECIFICATIONS AND REQUIREMENTS
1. The blades of street name signs at unsignalized intersections shall be double faced with a green background and white legend. The street name sign blade blank shall be 0.125" thick aluminum alloy 6063-T6, 6061-T6, 5052-H38, or approved equal. Unless otherwise specified, the smallest possible blank which meets these specifications and maintains aesthetics shall be used for each street name sign blade. Both faces of the blank shall be completely covered with either white ASTM D4956 TYPE I SIGN SHEETING (3M DIAMOND GRADE VIP WHITE 3090 OR APPROVED EQUAL) OR PROPOSED TYPE XI SIGN SHEETING (3M DIAMOND GRADE DG3 WHITE 4090 OR APPROVED EQUAL). Then, 3M electronic cuttable transparent film green 1177 (OR APPROVED EQUAL) WITH THE DESIGNATED STREET NAME SIGN INFORMATION CUT OUT SHALL BE APPLIED TO BOTH SIGN FACES OF THE BLADE. THE YELLOW PRIVATE ROAD DESIGNATOR SHALL BE APPLIED PER NOTE 6. LASTLY, BOTH SIDES OF THE BLADE IS COVERED WITH PREMIUM CLEAR PROTECTIVE OVERLAY FILM (3M 1160 OR EQUIVALENT). ALL SIGN SHEETING AND FILMS USED ON EACH STREET NAME SIGN BLADE SHALL BE COMPATIBLE TO ENSURE MATERIAL WARRANTIES ARE EFFECTIVE.

2. The directional arrow shall be used at intersections that have street name changes. The directional arrow indicates which leg of the intersection has the respective street name. The directional arrow is displayed in white on the blade. The compass direction of the directional arrow for each street name sign blade shall be specified when ordered.

3. The street name is displayed in white on the street name sign blade. Only the official county recorded name and spelling shall be used on the street name sign. Only county-approved abbreviations per DS-13C shall be used on the street name sign blades. The street name shall be centered vertically on each street name sign blade. The street name lettering shall be 6" uppercase and 4.5" lowercase highway gothic font, with style and spacing as established in the california manual on uniform traffic control devices (CAMUTCD), current edition. Stroke width and letter width used for the whole street name may vary from series B to series E (Refer to FHWA standard signs and markings sign fonts at http://mutcd.fhwa.dot.gov/shs/exalphabets.pdf). The minimum gap distance between the directional arrow and the street name shall equal the spacing used for the blank spaces in the street name.

4. The block number is displayed in white on the street name sign blade. The block number lettering shall be 3" high highway gothic font with style and spacing as established by the CAMUTCD, current edition. The series used for the whole block number shall be of the same series that is used for the street name.

5. The block number arrow is displayed in white on the street name sign blade. The block number arrow shall be centered below the block number. The compass direction of the block number arrow for each street name sign blade shall be specified when ordered.

6. The private road designator (PVT) is only used on street name blades for roads that are not maintained by the county of san diego (private roads). The PVT is displayed in yellow on the street name blade. The PVT shall be centered above the block number. The PVT lettering shall be 1 1/4" uppercase highway gothic font series E with style and spacing as established by the CAMUTCD, current edition. The PVT shall be made of ASTM D4956 TYPE I SHEETING (3M PRISMATIC ENGINEER GRADE YELLOW 3431 OR APPROVED EQUAL) AND PLACED ON THE STREET NAME SIGN BLADE PRIOR TO THE CLEAR PROTECTIVE OVERLAY SHEETING.

7. Street name signs shall be mounted on poles per DS-13C. No other signs shall be mounted on street name sign poles unless taller poles are specified to meet CAMUTCD required ground clearances for signs.

---

SAN DIEGO COUNTY DESIGN STANDARD

STREET NAME SIGN NOTES FOR UNSIGNALIZED INTERSECTIONS

<table>
<thead>
<tr>
<th>REVISIONS</th>
<th>APPROVED</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEW</td>
<td>JSW</td>
<td>10/2012</td>
</tr>
<tr>
<td>1</td>
<td>GF</td>
<td>8/2014</td>
</tr>
</tbody>
</table>

DRAWING NUMBER: DS-13B
BORDER
SEE DS-13E NOTE 1

BACKGROUND
SEE DS-13E NOTE 1

STREET NAME
SEE DS-13E
NOTE 3

BLOCK NUMBER
SEE DS-13E
NOTE 4

DIRECTIONAL ARROW

Wynola
Sol Dr
1270 N

4" MARGIN ALL SIDES

VARIES (36" MINIMUM TO 60" MAXIMUM)

BLOCK NUMBER ARROW DETAIL

DIRECTIONAL ARROW DETAIL

SEE NOTES ON DS-13E FOR ADDITIONAL SPECIFICATIONS AND REQUIREMENTS

SAN DIEGO COUNTY DESIGN STANDARD
STREET NAME SIGN FOR SIGNALIZED INTERSECTIONS

DRAWN BY: GE
CHECKED BY: KVS
RECOMMENDED BY: JEFF S. MOODY, P.E.
APPROVED BY COUNTY ENGINEER

DRAWING NUMBER DS-13D

REVISIONS APPROVED DATE
NEW JSM 10/2012
1. STREET NAME SIGNS AT SIGNALIZED INTERSECTIONS SHALL BE SINGLE FACED SIGNS WITH GREEN BACKGROUND, WHITE LEGEND, AND WHITE, 1" WIDE BORDER. THE STREET NAME SIGN BLANK SHALL BE 0.080" THICK ALUMINUM ALLOY 6063-T6, 6061-T6, 5052-H38, OR APPROVED EQUAL. UNLESS OTHERWISE SPECIFIED, THE SMALLEST POSSIBLE BLANK WHICH MEETS THESE SPECIFICATIONS AND MAINTAINS AESTHETICS SHALL BE USED FOR EACH STREET NAME SIGN. THE BLANK SHALL BE COMPLETELY COVERED WITH EITHER WHITE ASTM D4956 TYPE IX SIGN SHEETING (3M DIAMOND GRADE OR WHITE 5990 OR APPROVED EQUAL) OR TYPE XI SIGN SHEETING (3M DIAMOND GRADE OR WHITE 4090 OR APPROVED EQUAL). THEN, A SINGLE SHEET OF 3M ELECTRONIC CUTTABLE TRANSPARENT FILM GREEN 1177 (OR APPROVED EQUAL) WITH THE DESIGNATED STREET NAME SIGN INFORMATION CUT OUT SHALL BE APPLIED TO THE SIGN FACE. THE 1" WIDE BORDER SHALL HAVE ROUNDED CORNERS (3½ OUTSIDE RADIUS TYPICAL). LASTLY, THE SIGN FACE SHALL BE COVERED WITH PREMIUM CLEAR PROTECTIVE OVERLAY FILM (3M 1160 OR EQUIVALENT). ALL SHEETING AND FILMS USED ON EACH STREET NAME SIGN SHALL BE COMPATIBLE WITH MATERIAL WARRANTIES ARE EFFECTIVE.

2. THE DIRECTIONAL ARROW SHALL BE USED AT INTERSECTIONS THAT HAVE STREET NAME CHANGES, AND SHALL INDICATE WHICH LEG OF THE INTERSECTION HAS THE RESPECTIVE STREET NAME. THE DIRECTIONAL ARROW IS DISPLAYED IN WHITE ON THE BLADE. THE DIRECTIONAL ARROW IS CENTERED VERTICALLY WITH RESPECT TO THE ASSOCIATED LINE OF TEXT. THE COMPASS DIRECTION OF THE DIRECTIONAL ARROW FOR EACH STREET NAME SIGN BLADE SHALL BE SPECIFIED WHEN ORDERED.


4. THE BLOCK NUMBER IS DISPLAYED IN WHITE ON THE STREET NAME SIGN. THE BLOCK NUMBER LETTERING SHALL BE 4.5" HIGH HIGHWAY GOTHIC FONT, WITH STYLE AND SPACING PER CAMUTCD, CURRENT EDITION. THE SERIES USED FOR THE WHOLE BLOCK NUMBER SHALL BE THE SAME SERIES THAT IS USED FOR THE STREET NAME. THE BLOCK NUMBER SHALL BE CENTERED HORIZONTALLY ON THE STREET NAME SIGN.


6. SIGNS SHALL BE MOUNTED ON TRAFFIC SIGNAL POLES PER DS-13F.
NOTES:

1. THE NEW STREET NAME SIGN SHALL BE MOUNTED ON THE POLE APPROXIMATELY 17 FEET ABOVE THE GROUND SURFACE (ABOVE THE POLE MOUNTED SIGNAL HEAD AND IF POSSIBLE ABOVE THE MAST ARM). THE MOUNTING ASSEMBLY SHALL BE AN ASTRO SIGN-BRAC BAND MOUNT ASSEMBLY OR APPROVED EQUAL. ONE MOUNTING BRACKET ASSEMBLY SHALL BE USED PER 16 SQUARE FEET OF SIGN AREA. SIGNS SHALL BE MOUNTED WITH A 5-DEGREE TILT FROM VERTICAL TOWARD ONCOMING TRAFFIC FOR EASY READING. SIGNS SHALL BE MOUNTED SO THAT THE SIGN TEXT IS LEVEL. SITE PLANS SHALL SHOW THE APPROXIMATE ORIENTATIONS OF INDIVIDUAL SIGNS.

2. IF THE NEW STREET NAME SIGN CANNOT BE MOUNTED ON THE POLE AS DESCRIBED ABOVE, THE SIGN SHALL BE MOUNTED ON THE MAST ARM NEXT TO THE POLE. AN ASTRO SIGN-BRAC BAND MOUNT ASSEMBLY OR APPROVED EQUAL SHALL BE USED TO MOUNT THE NEW STREET NAME SIGN ONTO THE TRAFFIC SIGNAL MAST ARM. ONE MOUNTING BRACKET ASSEMBLY SHALL BE USED PER 16 SQUARE FEET OF SIGN AREA. SIGNS SHALL BE MOUNTED WITH A 5-DEGREE TILT FROM VERTICAL TOWARD ONCOMING TRAFFIC FOR EASY READING. SIGNS SHALL BE MOUNTED SO THAT THE SIGN TEXT IS LEVEL. SITE PLANS SHALL SHOW THE APPROXIMATE ORIENTATIONS OF INDIVIDUAL SIGNS.
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SAN DIEGO COUNTY DESIGN STANDARD
ABBREVIATIONS FOR STREET NAME SIGNS

NEW  JSM  10/2012
DRAWING NUMBER DS-13G
NOTES:

1. DIP SECTIONS SHALL CONFORM TO SECTION 5.11, "DRAINAGE IMPROVEMENTS" OF THE COUNTY OF SAN DIEGO PUBLIC ROAD STANDARDS.

2. THE MAXIMUM WATER DEPTH FOR A Q10 FREQUENCY STORM (Q), SHALL NOT EXCEED 10" AND THE DEPTH (D) IN FEET MULTIPLIED BY THE VELOCITY (V) IN FEET PER SECOND SHALL NOT EXCEED 6.

3. PORTLAND CEMENT CONCRETE SHALL EXTEND AT LEAST TO THE LIMITS OF THE Q100 FLOODWAY.

4. VERTICAL CURVES (V.C.) SHALL BE DESIGNED IN ACCORDANCE WITH AASHTO POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS.

5. LOW FLOW CULVERTS (18" MINIMUM DIAMETER) MAY BE OMITTED IF THE CONDITIONS OF NOTES 2 AND 3 CAN BE SATISFIED WITHOUT THEIR USE.

6. PORTLAND CEMENT CONCRETE SHALL CONFORM TO EITHER GREENBOOK 560-C-3250 OR CALTRANS MINOR CONCRETE. REINFORCING STEEL SHALL CONSIST OF A MINIMUM 6" X 6" X 10 GA WWF.
NOTES:
1. Δ = 110' MAX. AND 70' MIN.
   IF Δ IS GREATER THAN 110', THEN 200' MINIMUM CENTERLINE RADIUS REQUIRED.
2. DESIGNER TO SHOW CENTERLINE CURVE.
   DATA: R, Δ, L, T, R1, AND R2 ON PLANS.

PLAN
NO SCALE

<table>
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<tr>
<th>A (R/W)</th>
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<th>R1*</th>
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<td>28'</td>
<td>56'</td>
<td>30'</td>
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* DIMENSIONS SHOWN ARE MINIMUMS.
BRONZE MARKER
NO SCALE

NOTE A
ROTATE ARROW TO INDICATE
LOCATION OF TARGET POINT. SHOW
SIGHT DISTANCE (XX) IN FEET

SHANK 3/4" Ø X 2-1/2"
GALVANIZED STEEL PIPE
2" Ø I.D. X 24" LONG
QUICK SET CONCRETE

TYPE 2 MARKER
NO SCALE

INTERSECTION DETAIL
NO SCALE

NOTES:
TYPE 1: BRONZE MARKER TO BE SET IN PCC CURB WHERE LINE-OF-SIGHT INTERSECTS CURB.

TYPE 2: IF NO PCC CURB, SET BRONZE MARKER IN CONCRETE IN 2" Ø X 24" LONG GALVANIZED
STEEL PIPE AT THE INTERSECTION OF THE LINE-OF-SIGHT AND PROPERTY LINE.

CLEAR SPACE EASEMENTS FOR SIGHT DISTANCE, WHERE SPECIFIED ON PLANS, SHALL
BE DESIGNATED BY A BRONZE MARKER ACCORDING TO EITHER TYPE 1 OR TYPE 2 ABOVE.
GATED DRIVEWAY ENTRANCE
NO SCALE
GATED DRIVEWAY ENTRANCE

NO SCALE
GATED DRIVEWAY ENTRANCE
NO SCALE

* CARD READER OR GUARD STATION MUST PROVIDE SUFFICIENT ROOM FOR AN EMERGENCY VEHICLE TO TURN AROUND.
OBSERVATION POINT SHALL BE 10' FROM ROAD "A" EDGE OF PAVEMENT (OR PROLONGATION OF CURB LINE) AND 2' RIGHT OF ROAD "B" CENTERLINE AT A HEIGHT OF 3.5' — CLEAR SPACE EASEMENT — NO TREES OR OTHER SIGHT OBSTRUCTIONS WITHIN CLEAR SPACE, LOW GROWING GROUND COVER ONLY. LABEL ON PLANS AS "CLEAR SPACE EASEMENT. NO SIGHT OBSTRUCTIONS WITHIN THIS SPACE". SPECIFY TYPE OF MARKER PER DS-16 AND LIST COORDINATES OF EACH MARKER. SHOW TURNING POINTS AND BEARING OF EASEMENT. RECORD EASEMENT.

CURB AND GUTTER OR EDGE OF PAVEMENT

TARGET OBJECT 4.25' HIGH LOCATED ON ROAD "A" CENTERLINE

TARGET OBJECT 4.25' HIGH LOCATED 8' FROM CURB & GUTTER OR EDGE OF PAVEMENT.

CLEAR SPACE EASEMENT AREA

INTERSECTION SIGHT DISTANCE
NO SCALE

PER COUNTY OF SAN DIEGO PUBLIC ROAD STANDARDS THE REQUIRED MINIMUM INTERSECTION SIGHT DISTANCE SHALL BE TEN TIMES THE DESIGN SPEED OF THE MAJOR ROAD (ROAD "A" DESIGN SPEED (MPH) X 10FT/MPH). INTERSECTION SIGHT DISTANCE IS MEASURED FROM AN OBSERVATION POINT 2 FEET RIGHT OF ROAD "B" CENTERLINE AND 10 FEET BACK FROM ROAD "A" EDGE OF PAVEMENT (OR PROLONOGATION OF CURB LINE) AND MEASURED FROM A HEIGHT OF 3.5 FEET TO AN OBJECT HEIGHT OF 4.25 FEET.

NOTE THE REQUIRED SIGHT DISTANCE APPLIES TO BOTH HORIZONTAL AND VERTICAL OBSTRUCTIONS.

SAN DIEGO COUNTY DESIGN STANDARD

CLEAR SPACE EASEMENT
TYPE A

DRAWING NUMBER DS-20A

REVISIONS APPROVED DATE
REV JSM 10/2012

DRAWN BY: PNL
CHECKED BY: JSM
RECOMMENDED BY: JEFF S. MOODY, P.E.
APPROVED BY COUNTY ENGINEER
MOHAMAD FAHRADDINE, P.E.
PCE NO. 46520, EXP 3/31/2014
CLEAR SPACE EASEMENTS—NO TREES OR OTHER SIGHT OBSTRUCTIONS WITHIN CLEAR SPACE, LOW GROWING GROUND COVER ONLY. LABEL ON PLANS AS "CLEAR SPACE EASEMENT. NO SIGHT OBSTRUCTIONS WITHIN THIS SPACE." SPECIFY TYPE OF MARKER PER DS-16 AND LIST COORDINATES OF EACH MARKER. SHOW TURNING POINT AND BEARING OF EASEMENT. RECORD EASEMENT.

---

INTERSECTION SIGHT DISTANCE
NO SCALE

PER COUNTY PUBLIC ROAD STANDARDS THE REQUIRED MINIMUM INTERSECTION SIGHT DISTANCE SHALL BE TEN TIMES THE DESIGN SPEED OF THE MAJOR ROAD (ROAD "A" DESIGN SPEED (MPH) X 10FT/MPH). INTERSECTION SIGHT DISTANCE IS MEASURED FROM AN OBSERVATION POINT 2 FEET RIGHT OF ROAD "B" CENTERLINE AND 10 FEET BACK FROM ROAD "A" EDGE OF PAVEMENT (OR PROLONGATION OF THE CURB LINE) AND MEASURED FROM A HEIGHT OF 3.5 FEET TO AN OBJECT HEIGHT OF 4.25 FEET.

NOTE THE REQUIRED SIGHT DISTANCE APPLIES TO BOTH HORIZONTAL AND VERTICAL OBSTRUCTIONS.
LIMITED USE AREA. NO SIGHT OBSTRUCTIONS OR VEGETATION WITHIN THIS AREA.

CLEAR SPACE EASEMENT. NO SIGHT OBSTRUCTIONS WITHIN THIS AREA.
REFER TO DS-16, DS-20A AND DS-20B OF THESE DESIGN STANDARDS.

E = OBSERVATION POINT OF MOTORIST ON MINOR ROAD. THE OBSERVATION POINT IS LOCATED 10 FEET BACK FROM THE PROLONGATION OF THE EDGE OF PAVEMENT OR CURB LINE OF THE MAJOR ROAD AND 2 FEET RIGHT OF THE MINOR ROAD CENTERLINE. SIGHT DISTANCE IS MEASURED FROM AN EYE HEIGHT OF 3.5 FEET ABOVE THE ROAD SURFACE AT THE OBSERVATION POINT.


LINE OF SIGHT = LINE ALONG WHICH SIGHT DISTANCE IS MEASURED. THE REQUIRED MINIMUM SIGHT DISTANCE IS SPECIFIED IN THE COUNTY OF SAN DIEGO PUBLIC ROAD STANDARDS. ALSO REFER TO DETAILS DS-20A AND DS-20B OF THESE DESIGN STANDARDS.

CLEAR SPACE EASEMENT = AREA OUTSIDE THE ROAD RIGHT OF WAY REQUIRING RESTRICTIONS ON SIGHT DISTANCE OBSTRUCTIONS. CLEAR SPACE EASEMENTS SHALL BE MONUMENTED AND RECORDED IN ACCORDANCE WITH DETAILS DS-16, DS-20A AND DS-20B OF THESE DESIGN STANDARDS.

LIMITED USE AREA = AREA WITHIN RAISED MEDIANS WHERE SIGHT OBSTRUCTIONS AND VEGETATION ARE PROHIBITED.

NOTE: ALL LIMITED USE AREAS SHALL BE NOTED ON THE ROAD IMPROVEMENT AND LANDSCAPING PLANS WITH CONSPICUOUS TEXT STATING NO SIGHT OBSTRUCTIONS OR VEGETATION IN THIS AREA.

SAN DIEGO COUNTY DESIGN STANDARD
LIMITED USE AREA
TYPE A

DRAWING NUMBER DS-20C
LIMITED USE AREA. NO SIGHT OBSTRUCTIONS OR VEGETATION WITHIN THIS AREA.

E = OBSERVATION POINT OF MOTORIST ON THE MAJOR ROAD TURNING LEFT. THE OBSERVATION POINT IS LOCATED 10 FEET BACK FROM THE PROLONGATION OF THE EDGE OF PAVEMENT OR CURB LINE OF THE MINOR ROAD AND 2 FEET RIGHT OF THE MAJOR ROAD MEDIAN OR STRIPED CENTERLINE. SIGHT DISTANCE IS MEASURED FROM AN EYE HEIGHT OF 3.5 FEET ABOVE THE ROAD SURFACE AT THE OBSERVATION POINT.

O = LOCATION OF THE OBJECT VEHICLE APPROACHING THE INTERSECTION ON THE MAJOR ROAD. THE APPROACHING VEHICLE OBJECT HEIGHT IS 3.5 FEET ABOVE THE ROAD SURFACE AND THE VEHICLE IS ASSUMED LOCATED AT THE MOST CRITICAL OF EITHER 2 FEET RIGHT OF THE MEDIAN OR 8 FEET FROM THE RIGHT EDGE OF TRAVELED WAY DEPENDING ON THE NUMBER OF LANES AND ROAD ALIGNMENT.

LINE OF SIGHT = LINE ALONG WHICH SIGHT DISTANCE IS MEASURED. SIGHT DISTANCE SHALL BE CALCULATED IN ACCORDANCE WITH THE 2011 AASHTO POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS, TABLE 9.13, "TIME GAP FOR CASE F, LEFT turnoRs FROM MAJOR ROAD", BASED ON THE HIGHER OF THE DESIGN SPEED (PER ROAD CLASSIFICATION AND COUNTY OF SAN DIEGO PUBLIC ROAD STANDARDS) OR THE PREVAILING SPEED ON THE MAJOR ROAD, WHICHEVER IS GREATER, AND ADJUSTED FOR THE NUMBER OF LANES TO BE CROSSED AND GRADE APPROACHING THE INTERSECTION ON THE MAJOR ROAD. THE AASHTO SIGHT DISTANCE SHALL BE INCREASED BY 50 FEET AND THE RESULTANT SIGHT DISTANCE SHALL BE CONSPICUOUSLY NOTED ON THE PLAN.

LIMITED USE AREA = AREA WITHIN RAISED MEDIANS WHERE SIGHT OBSTRUCTIONS AND VEGETATION ARE PROHIBITED.

NOTE: ALL LIMITED USE AREAS SHALL BE NOTED ON THE ROAD IMPROVEMENT AND LANDSCAPING PLANS WITH CONSPICUOUS TEXT STATING NO SIGHT OBSTRUCTIONS OR VEGETATION IN THIS AREA.
**TABLE A**

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<thead>
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</table>

* Based on 12:1 slope relative to gutter flow line

**NOTES:**

1. See drawings DS-21E and DS-21F for additional information
2. Curb ramp side slopes shall be constructed per Table A

**SECTION A-A**

**PLANS SHALL SPECIFY A 5' LANDING WHERE TURNING SPACE IS CONstrained**

**SAN DIEGO COUNTY DESIGN STANDARD**

**CURB RAMP - TYPE A**

(NEW CONSTRUCTION)

**DRAWING NUMBER** DS-21A
MONOLITHIC CURB (H-6") IF SPECIFIED

WEAKENED PLANE JOINT PER RSD G-10 (TYP)

MATCH EXIST CURB, GUTTER & SIDEWALK (TYP)

EXPANSION JOINT PER RSD G-10 (TYP)

GUTTER FLOWLINE

PLAN
NOT TO SCALE

CURB RAMP

R/W

12" WIDE BORDER SEE DETAIL "A" ON DS-21F

EXISTING SIDEWALK

LIP OF GUTTER

A

GUTTER FLOWLINE

ELEVATION
NOT TO SCALE

CURB RAMP

R/W

TOP OF CURB

TOP OF MONOLITHIC CJRB (H-6") IF SPECIFIED

GUTTER FLOWLINE

SECTION A-A
NOT TO SCALE

R/W

4" MIN LANDING

RAMP LENGTH (Y)

4" THICK

MIN R/W

20:1 (5%) MAX GUTTER APRON SLOPE AT RAMP OPENING

SEE DETAIL "A" ON DS-21F

TRUNCATED DOMES SEE DETAILS ON DS-21F

SEE DETAIL "B" ON DS-21F

**PLANS SHALL SPECIFY A 5' LANDING WHERE TURNING SPACE IS CONSTRUED

TABLE A

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<th>Y</th>
<th>Z</th>
<th>SIDE SLOPE*</th>
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* BASED ON 12:1 SLOPE RELATIVE TO GUTTER FLOW LINE

NOTES:
1. SEE DRAWINGS DS-21E AND DS-21F FOR ADDITIONAL INFORMATION
2. CURB RAMP SIDE SLOPES SHALL BE CONSTRUCTED PER TABLE A

SAN DIEGO COUNTY DESIGN STANDARD
CURB RAMP - TYPE B (NEW CONSTRUCTION)

RECOMMENDED BY: JEFF S. MOODY, P.E.
APPROVED BY: COUNTY ENGINEER

DRAWING NUMBER DS-21B

DATE 10/11/12

REVISIONS | APPROVED | DATE
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<tbody>
<tr>
<td>ADA</td>
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RECOMMENDED BY: JEFF S. MOODY, P.E.
APPROVED BY: COUNTY ENGINEER

DRAWING NUMBER DS-21B

DATE 10/11/12

REVISIONS | APPROVED | DATE
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<tbody>
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EXPANSION JOINT PER RSD G-10 (TYP)
12" WIDE BORDER (TYP)
SEE DETAIL "A" ON DS-21F
MATCH EXISTING CURB, GUTTER & SIDEWALK (TYP)

PLAN TYPE 1
NOT TO SCALE

PLAN TYPE 2
NOT TO SCALE

TABLE A

<table>
<thead>
<tr>
<th>CURB HEIGHT</th>
<th>SIDE SLOPE</th>
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<td>3&quot;</td>
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<tr>
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<td>6' - 0&quot;</td>
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<td>7&quot;</td>
<td>7' - 0&quot;</td>
</tr>
<tr>
<td>8&quot;</td>
<td>8' - 0&quot;</td>
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</table>

* BASED ON 12:1 SLOPE RELATIVE TO GUTTER FLOW LINE

NOTES:
1. SEE DRAWINGS DS-21E AND DS-21F FOR ADDITIONAL INFORMATION
2. CURB RAMP SIDE SLOPES SHALL BE CONSTRUCTED PER TABLE A
3. TYPE C CURB RAMP SHALL BE USED ONLY TO MITIGATE EXISTING CONDITIONS WHERE R/W IS CONSTRANED
TABLE A

<table>
<thead>
<tr>
<th>CURB HEIGHT</th>
<th>Y</th>
<th>Z</th>
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<tbody>
<tr>
<td>1&quot;</td>
<td>1'-0&quot;</td>
<td>1'-0&quot;</td>
</tr>
<tr>
<td>2&quot;</td>
<td>2'-0&quot;</td>
<td>2'-C&quot;</td>
</tr>
<tr>
<td>3&quot;</td>
<td>3'-0&quot;</td>
<td>3'-C&quot;</td>
</tr>
<tr>
<td>4&quot;</td>
<td>4'-0&quot;</td>
<td>4'-C&quot;</td>
</tr>
<tr>
<td>5&quot;</td>
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<td>5'-C&quot;</td>
</tr>
<tr>
<td>6&quot;</td>
<td>6'-0&quot;</td>
<td>6'-C&quot;</td>
</tr>
<tr>
<td>7&quot;</td>
<td>7'-0&quot;</td>
<td>7'-C&quot;</td>
</tr>
<tr>
<td>8&quot;</td>
<td>8'-0&quot;</td>
<td>8'-C&quot;</td>
</tr>
</tbody>
</table>

* BASED ON 12:1 SLOPE RELATIVE TO GUTTER FLOW LINE

SEEN DETAIL "B" ON DS-21F

20:1 (5%) MAX GUTTER APRON SLOPE AT RAMP OPENING

RAMP LENGTH (Y)

12:1 (8.33%) MAX.

TRUNCATED DOMES SEE DETAILS ON DS-21F

SEE DETAIL A ON DS-21F

NOTES:

1. SEE DRAWINGS DS-21E AND DS-21F FOR ADDITIONAL INFORMATION
2. TYPE D CURB RAMPS SHALL BE USED ONLY FOR ALLEY STREETS AND DRIVEWAYS
3. CURB RAMP SIDE SLOPES SHALL BE CONSTRUCTED PER TABLE A

SAN DIEGO COUNTY DESIGN STANDARD CURB RAMP - TYPE D (ALLEY STREETS & DRIVEWAYS)

DRAWING NUMBER DS-21D
CURB RAMPS NOTES:

1. REMOVAL AND REPLACEMENT OF EXISTING CONCRETE CURB, GUTTER, SIDEWALK AND PAVEMENT FOR PEDESTRIAN RAMP INSTALLATION SHALL COMPLY WITH SAN DIEGO AREA REGIONAL STANDARD DRAWING G–11.

2. CURB RAMP CONCRETE SHALL CONSIST OF GREENBOOK CLASS 520–C–2500 OR CALTRANS MINOR CONCRETE AS SPECIFIED IN THE PROJECT SPECIAL PROVISIONS, AND SHALL BE FINISHED WITH A MEDIUM TO HEAVY BROOM TEXTURE FINISH PERPENDICULAR TO THE AXIS OF THE RAMP.

3. AREAS DELINEATED BY [ ] REPRESENTS THE MINIMUM REQUIRED FOR A COMPLETE RAMP INSTALLATION.

4. IF OBSTRUCTIONS SUCH AS INLETS, UTILITY POLES, FIRE HYDRANTS, ETC. ARE ENCOUNTERED THE RAMP LOCATIONS MAY BE ADJUSTED UPON APPROVAL BY THE ENGINEER.

5. CURB RAMP SIDE SLOPES ARE TO BE MEASURED RELATIVE TO THE GUTTER FLOWLINE GRADE.

6. LANDING SLOPE SHALL BE 2% MAX MEASURED PARALLEL TO THE CURB RAMP CENTERLINE.

7. THE EDGE OF THE TRUNCATED DOME PANEL SHALL BE LOCATED 6" MINIMUM AND 8" MAXIMUM FROM THE GUTTER FLOW LINE. SEE DETAIL "B" ON DRAWING DS–21F. ANY CUTTING OF PANELS REQUIRED FOR COMPLIANCE SHALL CONFORM TO THE MANUFACTURER'S RECOMMENDATIONS.

8. WEAKENED PLANE JOINTS AND EXPANSION JOINTS SHALL CONFORM TO SAN DIEGO AREA REGIONAL STANDARD (RSD) DRAWING G–10.

DETECTABLE WARNING SURFACE (TRUNCATED DOME) NOTES:

9. TRUNCATED DOMES ARE A DETECTABLE WARNING SURFACE CONSISTING OF A CAST IN PLACE PREFABRICATED PANEL COMPOSED OF VITRIFIED POLYMER INCLUDING ALUMINUM OXIDE, SOUND AMPLIFYING, MATERIAL SUCH AS "ARMOR–TILE CAST–IN–PLACE TACTILE PANELS" OR APPROVED EQUAL.

10. THE CONTRACTOR SHALL SUBMIT PRODUCT INFORMATION, INSTALLATION INSTRUCTIONS AND TWO (2) PANEL SAMPLES (MINIMUM SIZE 6"X 8" EACH) TO THE ENGINEER FOR APPROVAL PRIOR TO ORDERING OR INSTALLING MATERIALS.

11. DETECTABLE WARNING SURFACE SHALL BE APPROVED IN WRITING BY THE ENGINEER PRIOR TO ORDERING.

12. THE DETECTABLE WARNING SURFACE SHALL BE COLORED DARK GREY CONTRASTING IN COLOR FROM CURB RAMP CONCRETE. THE CONTRAST SHOULD BE AT LEAST 70%. THE CONTRAST IN PERCENT IS DETERMINED BY:

\[
\text{CONTRAST}=\left(\frac{B_1-B_2}{B_1}\right) \times 100, \text{ WHERE}
\]

\[
B_1=\text{LIGHT REFLECTANCE VALUE (LRV) OF THE LIGHTER AREA}
\]

\[
B_2=\text{LIGHT REFLECTANCE VALUE (LRV) OF THE LIGHTER AREA}
\]

NOTE THAT IN ANY APPLICATION BOTH WHITE AND BLACK ARE NEVER ABSOLUTE; THUS, B1 NEVER EQUALS 100 AND B2 IS ALWAYS GREATER THAN ZERO.

13. A CERTIFICATE OF COMPLIANCE SHALL BE FURNISHED TO CERTIFY THAT THE DETECTABLE WARNING SURFACES CONFORM TO THE AMERICANS WITH DISABILITY ACT ACCESSIBILITY GUIDELINES (ADAAG) AND REQUIREMENTS. THE CERTIFICATE OF COMPLIANCE SHALL INCLUDE A FIVE (5) YEAR WRITTEN MANUFACTURER'S WARRANTY.

14. DURING PANEL INSTALLATION AND CONCRETE CURING THERE SHALL BE NO WALKING, LEANING OR EXTERNAL FORCES PLACED ON THE PANEL TO ROCK THE PANEL SO AS TO CAUSE A VOID BETWEEN THE PANEL AND THE CONCRETE. THE CONTRACTOR SHALL BLOCK OFF THE AREA TO PREVENT PEDESTRIAN ACCESS DURING CURING.

15. THE TOP DIAMETER OF EACH TRUNCATED DOME SHALL BE BETWEEN 50% MINIMUM AND 65% MAXIMUM OF THE BASE DIAMETER.

SAN DIEGO COUNTY DESIGN STANDARD

GENERAL NOTES
FOR CURB RAMPS

DRAWN BY: PDM
CHECKED BY: JSM
RECOMMENDED BY: JEFF S. MOODY, P.E.
APPROVED BY COUNTY ENGINEER:

DATE: 10/12/12
M. FAHID, FA, PE
P.E. NO. 44950, EXP 3/31/14

REVISIONS
APPROVED
DATE
ADA
JSM
10/2012

DRAWING NUMBER
DS-21E
PLANS SHALL SPECIFY A
5' LANDING WHERE TURNING
SPACE IS CONstrained
TRUNCATED DOME PANEL
SEE DETAILS BELOW

2% MAX
12:1 (8.33%) MAX
3' MIN
SEE DETAIL B

0.75''
0.25''
0.25''

DETAIL A
NOT TO SCALE
CURB RAMp
3' MIN LENGTH
4' WIDTH
TRUNCATED DOME PANEL
NOT TO SCALE

SEE NOTES 13 AND 14 ON DS-21E

SEE DETAIL C

0.2''

0.9'' TO 1.4''

BASE

1.6'' TO 2.4''

DETAIL D
NOT TO SCALE

PATTERN, SIZE AND ORIENTATION OF DOMES SHALL
BE PER MANUFACTURER'S RECOMMENDATION.
SEE NOTE 13 ON DS-21E

NOTE:
1. ALL SLOPE RATIOS LISTED AS HORIZONTAL:VERTICAL

SAN DIEGO COUNTY DESIGN STANDARD
CURB RAMP DETAILS

DRAWING NUMBER DS-21F

REVISIONS APPROVED DATE
ADA JSM 10/2012
NEW ASPHALT CONCRETE PAVEMENT WITH 3/4" AGGREGATE COMPACTED TO 95% OF MAXIMUM RELATIVE COMPACTON (MRM)

EXISTING ASPHALT CONCRETE PAVEMENT

6" MIN. CLASS II AGGREGATE BASE COMPACTED TO 95% OF MRM

12" MIN. BACKFILL COMPACTED TO 95% OF MRM

BACKFILL COMPACTED TO 90% OF MRM (UNLESS SPECIFIED OTHERWISE)

PIPE ZONE / BEDDING PER SPECIFICATIONS (SEE NOTE 5)

PHASE 1 - BASE PAVING
NOT TO SCALE

W

PHASE 2 - FINISH PAVING
SEE NOTE 6
NOT TO SCALE

COLD PLANE 1-1/2" AND PAVE WITH
ASPHALT CONCRETE, 1/2" AGGREGATE

6" TYP.

1-1/2"

NOTES:
1. PAVEMENT MATERIAL AND SURFACING SHALL MATCH EXISTING.
2. ALL REMOVED SURFACE IMPROVEMENTS (CURBS, DIKES, SIDEWALKS, ETC.) SHALL BE REPLACED IN KIND.
3. ALL AREAS OF EXISTING AC LESS THAN 48" WIDE REMAINING AFTER TRENCHING SHALL BE COLD PLANED AND PAVED PER PHASE II FINISH PAVING.
4. PHASE I PAVEMENT THICKNESS SHALL EQUAL EXISTING PAVEMENT THICKNESS PLUS 1" (4" MINIMUM / 7" MAXIMUM).
5. WHEN GRAVEL OR ROCK IS USED WITHIN THE PIPE ZONE, THAT MATERIAL SHALL BE ENCAPSULATED IN A FILTER FABRIC ENVELOPE WITH W/2 > 12" MINIMUM OVERLAP. THIS REQUIREMENT APPLIES ONLY TO TRENCHES UNDER OR WITHIN 10' OF SURFACING.
6. PHASE II PAVING SHALL BE COMPLETED NOT EARLIER THAN 14 CALENDAR DAYS AND NOT LATER THAN 75 CALENDAR DAYS AFTER PHASE I PAVING.
7. FOR PCC PAVEMENT REFER TO RSD G25.
NOTES:
1. 200 FEET MAXIMUM DISTANCE BETWEEN TURNBUCKLES
2. STAGGER INTERMEDIATE TURNBUCKLES IN ADJACENT SPANS
3. NO CABLE SPlicing BETWEEN INTERMEDIATE TURNBUCKLE AND END POST
4. CABLE ALIGNMENT MAY VARY TO MATCH SLOPE IN TOP SURFACE OF RETAINING WALL
5. CONTRACTOR SHALL VERIFY ALL FIELD DIMENSIONS PRIOR TO ORDERING MATERIALS OR FABRICATING ASSEMBLIES
6. LINE POSTS SHALL BE BRACED HORIZONTALLY AND TRUSSED DIAGONALLY IN BOTH LINE DIRECTIONS AT INTERVALS NOT TO EXCEED 1000 FEET
7. ALL CABLE ENDS SHALL BE CAPPED WITH MECHANICALLY LOCKING, STAINLESS STEEL CAP COVERS (QuickConnect-SS OR EQUAL)
8. WHERE HORIZONTAL FENCE ALIGNMENT DEFLECTS 15 DEGREES OR MORE, POSTS AT ANGLE POINTS SHALL BE BRACED IN BOTH IN LINE DIRECTIONS WITH DIAGONAL BRACING PER TYPICAL DEAD END ELEVATION DETAIL
9. THIMBLES SHALL BE INSTALLED ON ALL CABLE LOOPS
10. SEE DS-23B FOR ADDITIONAL DETAILS
11. CENTERLINE OF POST MUST BE AT LEAST 9 INCHES FROM NIFARES® EXPANSION JOINT
FENCE POSTS
GALVANIZED STEEL PIPE
NPS 2-1/2" STD TYP

2-1/2" SCHEDULE 40 PIPE SLEEVE
SEAL AROUND SLEEVE WITH GRAY
EXTERIOR SILICONE SEALANT TYP

SECURE FENCE POST IN SLEEVE
WITH 3/8" BOLT THROUGH 1/2" DRILLED HOLE.
NUT & PECN END
OF BOLT TYP

HIGH STRENGTH NON
SHRINK GROUT TYP

CONCRETE WALL
MASONRY BLOCK WALL

4" X 4" X 1/4" ANCHOR
PLATE WELDED TO END OF
PIPE SLEEVE TYP

OMIT PLATE FOR MASONRY
WALLS LESS THAN 8" WIDE.

DETAIL A
CONCRETE RETAINING WALL
NOT TO SCALE
EXISTING REINFORCING NOT SHOWN FOR CLARITY

DETAIL B
MASONRY RETAINING WALL
NOT TO SCALE
EXISTING REINFORCING NOT SHOWN FOR CLARITY

ALTERNATIVE CABLE CONNECTION
NOT TO SCALE

ALTERNATIVE DEAD END
ANCHORAGE
NOT TO SCALE

NOTES:
1. POST SHALL BE CENTERED IN WALL AND PLUMB
2. ALL METAL COMPONENTS AND HARDWARE SHALL BE HOT DIP GALVANIZED AFTER FABRICATION
3. ONLY ONE OF THE TWO ALTERNATIVE CONNECTIONS IS ALLOWED FOR THE SAME CABLE END
## Revisions to San Diego County Design Standards

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<thead>
<tr>
<th>DS-#</th>
<th>Name</th>
<th>Revision Number</th>
<th>Revision Date</th>
<th>Revision Description</th>
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<tr>
<td>DS-13C</td>
<td>Street Name Sign Details for Unsignalized Intersections</td>
<td>R2</td>
<td>1/30/2015</td>
<td>A) Added thickness of Blade in Typical Street Name Bade Detail; B) Added Slot width dimension to Post Cap Detail; 3) Revised dimensions on Post Cap Half-Section Detail; 4) Revised note 1 to clarify; 5) Revised Post Setback detail and Table</td>
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<td>DS-13C</td>
<td>Street Name Sign Details for Unsignalized Intersections</td>
<td>R1</td>
<td>10/15/2012</td>
<td>A) Increased Post height to 12&quot; and bottom clearance to 3&quot;; B) Revised setback table; C) Added dimension to blade channel in Post Cap Detail; D) Revised dimensions in Post Cap Half Section Detail; E) Revised Notes; F) Drafting corrections.</td>
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<td>DS-13B</td>
<td>Street Name Sign Notes for Unsignalized Intersections</td>
<td>R1</td>
<td>8/25/2014</td>
<td>Revised Note 1, 4th sentence to remove White ASTM D4956 Type IX Sign Sheeting.</td>
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<tr>
<td>DS-13E</td>
<td>Street Name Sign Notes for Signalized Intersections</td>
<td>R1</td>
<td>8/25/2014</td>
<td>Revised Note 1, 4th sentence to remove White ASTM D4956 Type IX Sign Sheeting.</td>
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<td>DS23-A</td>
<td>Cable Railing For Retaining Wall</td>
<td>R2</td>
<td>3/3/2014</td>
<td>Added Note 7 to require SS mechanically locking caps on all cable ends. Added Detail for cable end connections.</td>
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<td>DS-23B</td>
<td>Cable Railing Details</td>
<td>R1</td>
<td>9/17/2013</td>
<td>Correction - Changed fence post diameter from 2.5&quot;Ø to 2&quot;Ø</td>
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<td>DS-23A</td>
<td>Cable Railing For Retaining Wall</td>
<td>R1</td>
<td>9/16/2013</td>
<td>Correction - Changed callout from 2-1/4&quot; Cable Clamps to 1/4&quot; Cable Clamps 3 Per End Typ</td>
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<td>DS-13</td>
<td>Street Name Sign</td>
<td>R1</td>
<td>10/24/2012</td>
<td>Detail expanded to a series of 7 details designated DS-13A thru DS-13G. Original Detail DS-13 renamed to DS-13C. See Document titled Changes to 2009 SDC Design Standards for a complete list of changes. Only major change was an increase in post length from 10’ to 12’</td>
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<td>DS-22</td>
<td>Trench Resurfacing Type- R</td>
<td>New</td>
<td>11/4/2009</td>
<td>NEW DETAIL- Addresses trenching and resurfacing of trenches within the R/W</td>
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<td>DS-21B</td>
<td>Curb Ramp - Type A1 &amp; B1 (For Existing Sidewalk)</td>
<td>New</td>
<td>9/27/2007</td>
<td>NEW DETAIL- Addresses 3 ft minimum depth for truncated dome panel</td>
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<td>DS-21C</td>
<td>Curb Ramp - Type C (For Existing sidewalk)</td>
<td>New</td>
<td>9/27/2007</td>
<td>NEW DETAIL- Addresses 3 ft minimum depth for truncated dome panel</td>
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<td>DS-21D</td>
<td>Curb Ramp - Type D</td>
<td>New</td>
<td>9/27/2007</td>
<td>NEW DETAIL- Addresses 3 ft minimum depth for truncated dome panel</td>
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<td>DS-21E</td>
<td>General Notes for Curb Ramps</td>
<td>New</td>
<td>9/27/2007</td>
<td>NEW DETAIL- Addresses 3 ft minimum depth for truncated dome panel</td>
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<td>DS-21F</td>
<td>Curb Ramp Details</td>
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<td>9/27/2007</td>
<td>NEW DETAIL- Addresses 3 ft minimum depth for truncated dome panel</td>
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<td>DS-07</td>
<td>Asphalt Concrete Driveway</td>
<td>R1</td>
<td>9/14/2006</td>
<td>Replaced Aggregate Base info omitted from previous plan. Changed gutter lip back to 0.1&quot;</td>
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### 2012 San Diego County Design Standards Revision History

- **2012 Oct** SDCDS Uploaded to DPW Website
- **2012 9/7/2013** SDCDS-R1 Uploaded to DPW Website
- **2014 3/24/14** SDCDS-R2 Uploaded to DPW Website
- **2014 8/25/14** SDCDS-R3 Uploaded to DPW Website
- **2015 2/5/14** SDCDS-R4 Uploaded to DPW Website