NOTES:
1. SLOPE PAVEMENT AT 2% FROM CROWN TO LIP OF GUTTER.
2. TYPICAL SECTIONS SHOW MINIMUM REQUIREMENTS. ADDITIONAL ROADWAY WIDTHS & RIGHT OF WAY MAY BE REQUIRED TO ACCOMMODATE TRAFFIC OR OTHER DEVELOPMENT NEEDS SUCH AS TURN LINES, ACCEL / DECEL LANES, PEDESTRIAN OR BYCYCLE FACILITIES, LANDSCAPING, UTILITIES OR CONSTRUCTION REQUIREMENTS.
3. WHEN FLOW LINE ELEVATIONS ARE NOT EQUAL PAVEMENT SHALL BE SLOPED 2% FROM THE HIGHER LIP. MAXIMUM STREET CROSS GRADE SHALL NOT EXCEED 4%.
4. COLLECTOR AND ARTERIAL STREETS HAVE DETACHED WALK.
5. BECAUSE OF THE WIDE RANGE OF VOLUMES AND USES THAT CAN BE EXPERIENCED WITH ARTERIAL AND COLLECTOR STREETS, THEY WILL BE REVIEWED MORE EXTENSIVELY ON A CASE BY CASE BASIS TO DETERMINE THE ACTUAL RIGHT-OF-WAY AND STREET WIDTH NEEDS.

COMMERCIAL / INDUSTRIAL COLLECTOR (PARKING 2 SIDES)

RESIDENTIAL COLLECTOR (PARKING 2 SIDES)

RESIDENTIAL COLLECTOR (PARKING 1 SIDE)
NOTES:

1. SLOPE PAVEMENT AT 2% FROM CROWN TO LIP OF GUTTER.
2. TYPICAL SECTIONS SHOW MINIMUM REQUIREMENTS. ADDITIONAL ROADWAY WIDTHS & RIGHT OF WAY MAY BE REQUIRED TO ACCOMMODATE TRAFFIC OR OTHER DEVELOPMENT NEEDS SUCH AS TURN LINES, ACCEL / DECEL LINES, EXTRA LINES, PEDESTRIAN OR BYCYCLE FACILITIES, LANDSCAPING, UTILITIES OR CONSTRUCTION REQUIREMENTS.
3. WHEN FLOW LINE ELEVATIONS ARE NOT EQUAL PAVEMENT SHALL BE SLOPED 2% FROM THE HIGHER LIP. MAXIMUM STREET CROSS GRADE SHALL NOT EXCEED 4%.
4. COLLECTOR AND ARTERIAL STREETS HAVE DETACHED WALK.
5. BECAUSE OF THE WIDE RANGE OF VOLUMES AND USES THAT CAN BE EXPERIENCED WITH ARTERIAL AND COLLECTOR STREETS, THEY WILL BE REVIEWED MORE EXTENSIVELY ON A CASE-BY-CASE BASIS TO DETERMINE THE ACTUAL RIGHT-OF-WAY AND STREET WIDTH NEEDS.
DESIGN ENGINEER

PROVIDE SPOT ELEVATIONS AT THESE POINTS.

CURB & GUTTER AND SIDEWALK

NOTES:
1. ALL NEW STREETS SHALL BE DESIGNED WITH A 2% SLOPE FROM THE CROWN TO THE LIP OF GUTTER.

2. VARIENCES FROM THE TYPICAL CROSS SLOPE (2%) WILL BE REVIEWED BY THE CITY ENGINEER ON A CASE BY CASE BASIS.

- DESIGN ENGINEER PROVIDE SPOT ELEVATIONS AT THESE POINTS.

STREET INTERSECTION CROSSSPAN

APPROACH DETAIL

DETAIL 200-01B

DATE: JANUARY 2, 1997

SCALE: NOT TO SCALE
NOTES:

1. ALL NEW STREETS SHALL BE DESIGNED WITH A 2% SLOPE FROM THE CROWN TO THE LIP OF GUTTER.

2. VARIANCES FROM THE TYPICAL CROSS SLOPE (2%) WILL BE REVIEWED BY THE CITY ENGINEER ON A CASE BY CASE BASIS.

O • DESIGN ENGINEER PROVIDE SPOT ELEVATIONS AT THESE POINTS.
NOTE:
TRUNCATE RIGHT OF WAY, MINIMUM 1 FOOT
BEHIND BACK OF ALL STANDARD CURB RAMPS.
ADDITIONAL RIGHT OF WAY MAY BE NECESSARY
IN SOME SITUATIONS.
COMMERCIAL DRIVE OR STREET WIDTH

CENTER BARS
ONLY WHEN POURED
1/2 AT A TIME

No.5 SMOOTH DOWEL BARS 18'
1'-6' O.C.(MIN)

B.O.W.

GUTTER

SEC.A-A

8' WIDTH -- CROSS STREET GRADE 0.5% TO 2.0%
10' WIDTH -- CROSS STREET GRADE 2.0% TO 4.0%

COMPACTED SUBGRADE

VARIIES

CONCRETE CROSS PAN

DETAIL 200-03
DETAIL 200-04

CONCRETE SIDEWALK (MIN. 5')

SLOPE 1/4' PER FT. TO STREET

COMPACTED SUBGRADE

DETACHED SIDEWALK DETAIL

REVISED
3/4/1997
3/12/2001
1/3/2005

PUBLIC WORKS DIVISION

DATE: MARCH 1993

SCALE: NOT TO SCALE
NOTES:
1. SAWCUT OR 1½ ZIPSTRIP JOINTS AT 8' O.C.
2. EXPANSION JOINTS REQUIRED AT CURB RAMPS AND AT 400' SPACING.
3. 4,000 psi, CONCRETE WITH FIBER MESH.
4. 6" THICK CONCRETE WALK WITH FIBER MESH, PER SPECS.
5. FINISH TO BE LIGHT BROOM. NO TOOLED JOINTS - PATH EDGE ONLY.
NOTES:
1. GUTTER SLOPE: 1/2" IN 1'-0"
2. WALK SLOPE: 1/4" IN 1'-0"
3. AT DRIVES REFER TO DETAIL 200-08
VERTICAL CURB & GUTTER
TYPE B
DETAIL 200-07

(CATCH SECTION)

(Spill Section)
1. Driveway widths to be in accordance with municipal code 15.05.050.
2. For alley and commercial drives, increase thickness to 10".
3. Apply broom finish to surface and evenly space joints (10' max.).
NOTES:
1. DRIVEWAY WIDTHS TO BE IN ACCORDANCE WITH MUNICIPAL CODE 15.05.050.
2. FOR ALLEY AND COMMERCIAL DRIVES, INCREASE THICKNESS TO 10".
3. APPLY BROOM FINISH TO SURFACE AND EVENLY SPACE JOINTS (10' MAX.).
NOTE:

1. 10' max, evenly spaced joints. Apply broom finish to surface. Driveway widths in accordance with municipal code 15.05.050.D streets, as follows.

2. Curb cuts in residential districts shall not be less than 12', nor more than 24'. Curb cuts in commercial/industrial districts shall not be less than 12' nor more than 30' when serving one property or 40' when serving more than one property.

3. Alley and commercial drives shall be 10' thick. Alley curb cuts shall be 20' in length.

PUBLIC WORKS DIVISION
DATE: MAY, 1993
SCALE: NOT TO SCALE

CONCRETE DRIVEWAY
OFFSET WALK (MONOLITHIC POUR)
DETAIL 200-09
NOTE:
1. GUTTER SLOPE 1 1/2" IN 1'-6"
2. WALK SLOPE 1/4" IN 1'-0"
3. RESIDENTIAL ONLY.
4. ALLEY DRIVE CUTS SHALL BE 10" THICK
CURB RAMP DETAIL
RADIAL CURB Walk
DETAIL 200-11

SEC. C-C

SEE DETAIL 200-15
FOR TRUNCATED DOME AND
CONSTRUCTION JOINT NOTES
AND DETAILS.

REVISED
3/9/2001
12/29/2004

CURB WALK SECTION

SEC. A-A
SEC. A-B
(WHEN APRON IS REQUIRED)

SEC. C-C

PUBLIC WORKS DIVISION
DATE: MARCH, 1993
SCALE: NOT TO SCALE
MID-BLOCK, SINGLE CURB RAMP DETAIL

DETAIL 200-12

NOT TO SCALE

6'-0" (MIN) 5'-0" 6'-0" (MIN)

HEIGHT VARIES 0-6"

6" WIDE CURBHEAD

TRUNCATED DOMES

SEC. A-A

NOT TO SCALE

6'-0" (MIN) 5'-0" 6'-0" (MIN)

SEE DETAIL 200-15 FOR TRUNCATED DOME AND CONSTRUCTION JOINT NOTES AND DETAILS.

PUBLIC WORKS DIVISION

DATE: MARCH, 1993

SCALE: NOT TO SCALE
CURB RAMP DETAIL
DETACHED SIDEWALK
DETAIL 200-13

6' (MIN.)

6' (MIN.)

6" CONC. CURB

MATCH EXISTING SIDEWALK ELEVATION

6" WIDE CURBHEAD

MATCH EXISTING SIDEWALK ELEVATION

T R

T R

VARIES

VARIES

SEE DETAIL 200-15 FOR TRUNCATED DOME AND CONSTRUCTION JOINT NOTES AND DETAILS.

REVISED
3/9/2001
12/30/2004

PUBLIC WORKS DIVISION
DATE: MARCH, 1993
SCALE: NOT TO SCALE
OPTIONAL ALIGNMENT FOR
LOCAL / LOCAL
LOCAL / COLLECTOR
COLLECTOR / COLLECTOR

SEE DETAIL 200-15
FOR TRUNCATED DOME AND
CONSTRUCTION JOINT NOTES
AND DETAILS.

SEC. A-A
(VARIABLE)
SEC. A-B
(WHEN APRON IS REQUIRED)
SEC. C-C

CURB RAMP TRANSITION DETAIL
FOR DETACHED WALK AND OR BIKEPATH
DETAIL 200-14 Alt. B

PUBLIC WORKS DIVISION
DATE: OCTOBER, 2006
SCALE: NOT TO SCALE
CONSTRUCTION NOTES:
The ramp area shall receive a coarser brush treatment than the sidewalk.

THE TOP DIAMETER OF THE TRUNCATED DOMES SHALL BE 50% TO 65% OF THE BASE DIAMETER

GENERAL NOTES:
1. TRUNCATED DOMES SHALL BE INSTALLED AT SIDEWALK/STREET INTERSECTIONS. THE DOMES SHALL BE PLACED IN A SQUARE GRID.
2. TRUNCATED DOMES SHALL BE INSTALLED A MINIMUM OF 6 INCHES FROM THE FLOW LINE OF THE CURB AND NOT BE MORE THAN A MAXIMUM OF 8 INCHES FROM THE FLOW LINE. ALL TRUNCATED DOMES SHALL BE 24 INCHES IN LENGTH AND COVER THE COMPLETE WIDTH OF THE RAMP AREA.
3. RAMP SLOPES SHALL NOT BE STEEPER THAN 1 PER FOOT (12:1). THE TRUNCATED DOMES SLOPE SHALL NOT BE STEEPER THAN 0.6 PER FOOT (20:1).
4. REFER TO THE MATERIALS LIST FOR APPROVED TRUNCATED DOMES MANUFACTURERS / PRODUCTS.

* SHALL BE EQUAL IN BOTH DIRECTIONS

CONTRACTION JOINT

JOINT SHALL BE TOOLED IN LIEU OF SAWCUTTING AT TIME OF RAMP INSTALLATION BEFORE CONCRETE HAS HARDENED.

CURB RAMP DETECTABLE WARNING AND CONTRACTION JOINT DETAIL

DETAIL 200-15

DATE: JANUARY, 2005
SCALE: NOT TO SCALE
Mid-Block Neckdown with Detached Walk

Detail 200-16A

Saw cut and match exist.

15' F/L R (MIN.)
(TYPICAL)

10' Driving Lane

4' Bike Lane

7' Parking Lane

10' Driving Lane

4' Bike Lane

7' Parking Lane

15' F/L R (MIN.)
(TYPICAL)

Detached Walk (Exist.)

Detached Walk (Exist.)

Saw cut and match exist.

Saw cut and match exist.

Low Landscaping as directed by the engineer.

Low Landscaping as directed by the engineer.

Remove C&G

Remove C&G

Match exist.

Match exist.

See Detail 200-15

See Detail 200-15

For truncated dome and construction joint detail

Speed table at the pedestrian crossing may be option directed by the engineer.

Public Works Division

October, 2006

Scale: Not to Scale

Detail 200-16A
CHASE DRAIN DETAIL
DETAIL 200-17

NOTE: SLOPE CHANNEL 1/4" PER FT. IN THE DIRECTION OF FLOW. (FLOW TO STREET)

CHASE DRAINS SHALL NOT BE CONSTRUCTED WITH AN OPENING WIDTH OF GREATER THAN 2 FEET. MULTIPLE CHASES MAY BE CONSTRUCTED WITH A MINIMUM 1 FOOT SEPARATION BETWEEN CHASE THROAT OPENINGS.

<table>
<thead>
<tr>
<th>PLATE THICKNESS</th>
<th>CHASE DRAIN WIDTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>5/16&quot;</td>
<td>0' - 12'</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>13' - 24'</td>
</tr>
</tbody>
</table>

NOTE: CHASE DRAINS SHALL NOT BE CONSTRUCTED WITH AN OPENING WIDTH OF GREATER THAN 2 FEET. MULTIPLE CHASES MAY BE CONSTRUCTED WITH A MINIMUM 1 FOOT SEPARATION BETWEEN CHASE THROAT OPENINGS.

REVISED
3/4/1997
3/12/2001
1/3/2005

PUBLIC WORKS DIVISION
DATE: MARCH, 1993
SCALE: NOT TO SCALE
NOTES:
1. TYPICAL MONUMENT BOX TO BE USED FOR ALL SURVEY MONUMENTS LOCATED IN OR UNDER PAVED STREETS, BIKE PATHS & SIDEWALKS WITHIN THE CITY OF LONGMONT RIGHT OF WAY, INCLUDING BUT NOT LIMITED TO, PROPERTY CORNERS, SUBDIVISION CORNERS, REFERENCE MARKS, STREET INTERSECTIONS, AND WITNESS CORNERS.
2. ALTERNATE MONUMENT BOXES MAY BE USED IF APPROVED BY THE CITY ENGINEER OR THEIR DESIGNEE.
3. ALL MONUMENTS SHALL BE SET IN ACCORDANCE WITH COLORADO STATE LAW.
1. BASE SHALL BE CLASS B CONCRETE.
2. TOP OF HANDRAIL TO MATCH SIDEWALK GRADE.
3. TYPE AND COLOR OF FINISH SHALL BE APPROVED BY THE CITY OF LONGMONT.
CONDUIT TRENCH
DETAIL 200-22

LIMITS OF PATCH BACK
SEE PATCH BACK DETAIL

TRENCH WIDTH

MIN. 1'

MIN. 30"

6" MIN.

LIMITS OF PATCH BACK
SEE PATCH BACK DETAIL

MIN. 1'

BEDDING SHALL MEET THE REQUIREMENTS OF SECTION 11202.

3" MIN.

MIN. 1'

3/4"-1 1/2" WASHED AGGREGATE (USE ONLY IF NEEDED TO OBTAIN STABLE SUBGRADE.)

12"

BACKFILL TO BE COMPACTED TO 95% OF A.S.T.M.D698 DENSITY IN 8' LIFTS.

REVISIONS
3/12/2001
9/10/2002
1/3/2005
ELEVATION OF BOTTOM OF SAND OR ROCK TO CONFORM TO BOTTOM OF BASE COURSE

SEE DETAIL

FILTER FABRIC
1' MIN. OVERLAP
DRAIN OUTFALL MUST BE APPROVED BY THE CITY OF LONGMONT
4.6' OR 8' RIGID PERFORATED PVC PIPE IN MEDIAN, SOLID PVC ELSEWHERE IN R.O.W.

ELEVATION OF BOTTOM OF SAND OR ROCK TO CONFORM TO BOTTOM OF CURB ELEVATION

FILTER FABRIC
1' MIN. OVERLAP
DRAIN OUTFALL MUST BE APPROVED BY THE CITY OF LONGMONT
4.6' OR 8' RIGID PERFORATED PVC PIPE IN MEDIAN, SOLID PVC ELSEWHERE IN R.O.W.

FILTER FABRIC
1' MIN. OVERLAP
DRAIN OUTFALL MUST BE APPROVED BY THE CITY OF LONGMONT
4.6' OR 8' RIGID PERFORATED PVC PIPE IN MEDIAN, SOLID PVC ELSEWHERE IN R.O.W.

FILTER FABRIC
CLASS "A" FILTER MATERIAL

FILTER FABRIC
CLASS "A" FILTER MATERIAL

FILTER FABRIC

FILTER FABRIC

ELEVATION OF BOTTOM OF SAND OR ROCK TO CONFORM TO BOTTOM OF CURB ELEVATION

STANDARD PIPE UNDERDRAIN (RAISED IRRIGATED MEDIANS)
DETAIL 200-23

DATE: JAN., 1996
SCALE: NOT TO SCALE
CORE DRILLED POTHOLE PATCHING DETAIL
DETAIL 200-25

NOTE:
POTHOLE PATCHING MATERIALS SHALL BE PER THE APPROVED MATERIALS LIST.