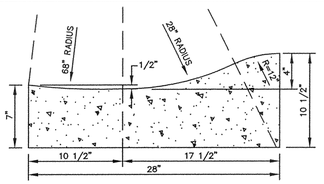
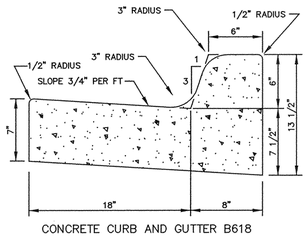


SURMOUNTABLE CONCRETE CURB AND GUTTER



CONCRETE CURB AND GUTTER B618

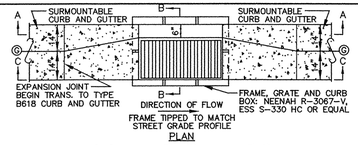
ERSTD-ST

Howard R. Green Company

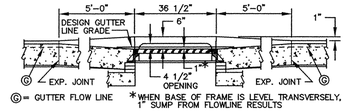
SURMOUNTABLE AND B618 CONCRETE CURB AND GUTTER

City of Elk River

STANDARD PLATE NO. 2000



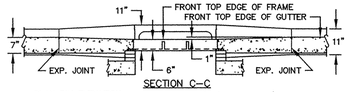
PLAN



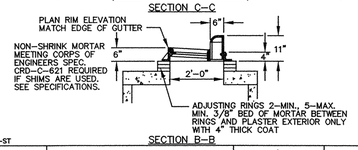
Ⓒ= GUTTER FLOW LINE

*WHEN BASE OF FRAME IS LEVEL TRANSVERSELY, 1" SUMP FROM FLOWLINE RESULTS

SECTION A–A



SECTION C–C



SECTION B–B

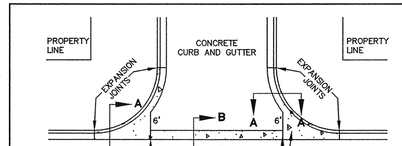
ERSTD-ST

Howard R. Green Company

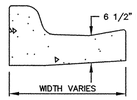
CATCH BASIN FRAME PLACEMENT SURMOUNTABLE CURB AND GUTTER

City of Elk River

STANDARD PLATE NO. 2005



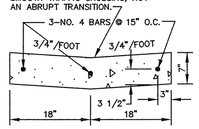
PLAN



B618

SECTION A–A

BELLY FLOW CHANNEL TO FORM SMOOTH TRAFFIC CROSSING, NOT AN ABRUPT TRANSITION.



SECTION B–B

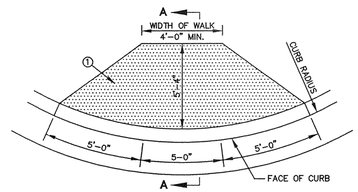
ERSTD-ST

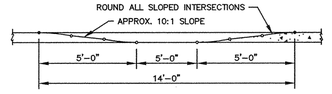
Howard R. Green Company

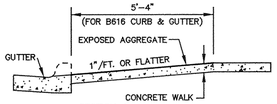
CONCRETE "V" GUTTER

City of Elk River

STANDARD PLATE NO. 2001







SECTION A–A

① SURFACE TREATMENT – AFTER NORMAL CONCRETE FINISHING, THE CONCRETE SHALL BE LIGHTLY RINSED TO EXPOSE AGGREGATE. THE EXPOSED AGGREGATE SHALL PROTRUDE AT LEAST 3/16" ABOVE THE CONCRETE SURFACE.

② PEDESTRIAN RAMPS SHALL BE 6" THICK.

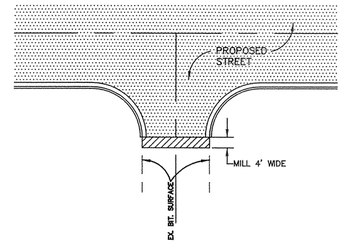
ERSTD-ST

Howard R. Green Company

PEDESTRIAN CURB RAMPS FOR SIDEWALKS

City of Elk River

STANDARD PLATE NO. 2003



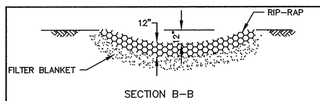
ERSTD-ST

Howard R. Green Company

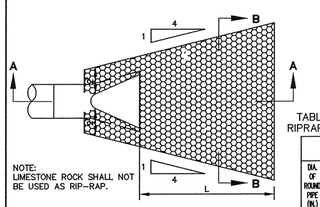
MATCH EXISTING BITUMINOUS SURFACING

City of Elk River

STANDARD PLATE NO. 2006



SECTION B–B



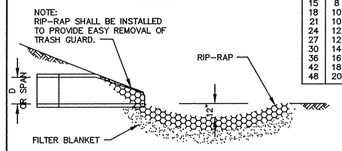
PLAN

NOTE: LIMESTONE ROCK SHALL NOT BE USED AS RIP-RAP.

TABLE OF QUANTITIES
RIPRAP AT RCP OUTLETS

DIA. OF ROUND PIPE (IN.)	L (FT.)	CLASS IV d_{50}=12" 24" DEPTH RIPRAP (CU. YDS.)	CLASS IV d_{50}=12" 12" DEPTH GRANULAR FILTER (CU. YDS.)
12	8	5.5	2.8
15	8	5.8	2.9
18	10	7.8	3.9
21	10	8.4	4.2
24	12	11.0	5.5
27	12	11.6	5.8
30	14	14.5	7.3
36	16	18.3	9.2
42	18	21.7	10.9
48	20	25.8	12.9

NOTE: RIP-RAP SHALL BE INSTALLED TO PROVIDE EASY REMOVAL OF TRASH GUARD.



SECTION A–A

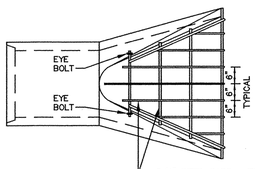
ERSTD-SM

Howard R. Green Company

RIP-RAP INSTALLATION

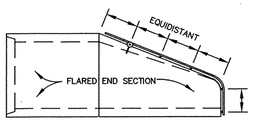
City of Elk River

STANDARD PLATE NO. 2505



3/4" STEEL BARS – TRANSVERSE AND LONGITUDINAL. WELD EACH INTERSECTION.

PLAN



ELEVATION

ERSTD-SM

Howard R. Green Company

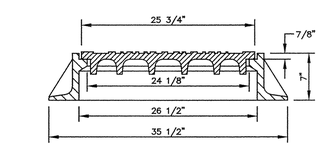
TRASH GUARD

City of Elk River

STANDARD PLATE NO. 2504

POSITIONING LUG IS NOT REQUIRED

SOLID LID WITH TWO CONCEALED PICK HOLES



CASTING SHALL BE NEENAH R-1733 OR EQUAL

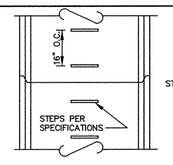
ERSTD-SM

Howard R. Green Company

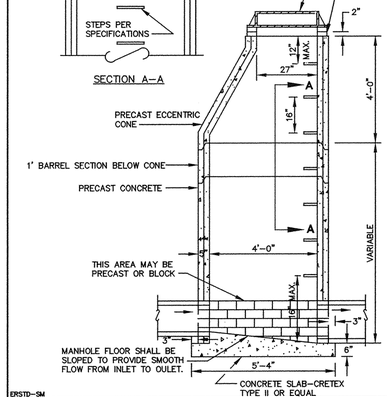
STANDARD MANHOLE CASTING

City of Elk River

STANDARD PLATE NO. 2506



SECTION A–A



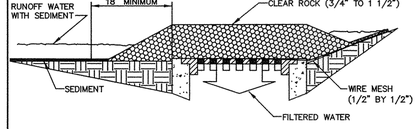
ERSTD-SM

Howard R. Green Company

STANDARD MANHOLE

City of Elk River

STANDARD PLATE NO. 2501



ERSTD-SM

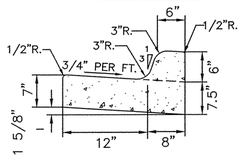
Howard R. Green Company

CATCH BASIN SEDIMENTATION BARRIER

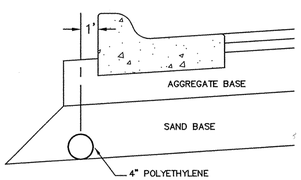
City of Elk River

STANDARD PLATE NO. 2510

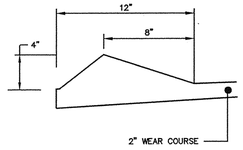
B612 CURB & GUTTER



DRAINTILE DETAIL

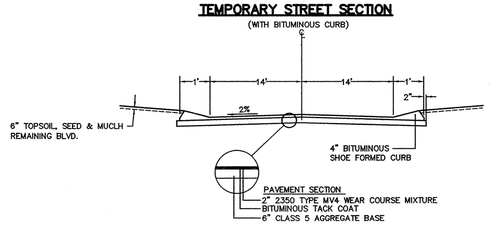


BITUMINOUS SHOE FORMED CURB

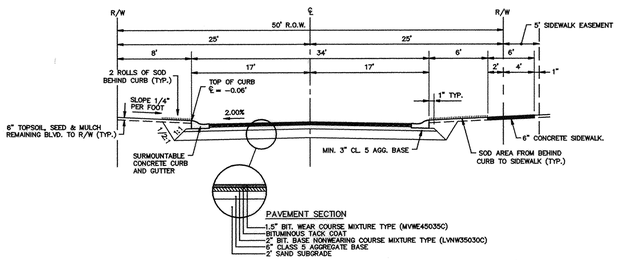


TEMPORARY STREET SECTION

(WITH BITUMINOUS CURB)



TYPICAL STREET SECTION



4. AS-BUILT
3. ADDED TEMP. STREET SECTION AND BIT CURB DETAIL.
2. REMOVED TEMPORARY CUL-DE-SAC DETAIL AND REVISED STREET SECTION.
1. ADD B612 CURB & GUTTER DETAIL.

RECORD PLAN 2005

CONTRACTOR

RYAN CONTRACTING
8700 13TH AVE.
SHAKOPEE, MN
(952) 894–3200

RECORD PLAN 2005

PIONEER engineering P.A.
LAND SURVEYORS • CIVIL ENGINEERS
LAND PLANNERS • LANDSCAPE ARCHITECTS
201 85th Avenue NW, Coon Rapids, MN 55433 (763) 785-1880 FAX: 783-1883
2422 Enterprise Drive, Mendota Heights, MN 55120 (651) 681-1914 FAX: 681-9488

I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Name Paul J. Cheme
Reg. No. 19860 Date 7/16/04

Revisions
1. 8/4/04
2. 8/27/04
3. 9/3/04
4. XX/XX/XX

Date 7/16/04
Designed BJK
Drawn

SHEET TITLE: DETAILS

OWNER: RYAN CONTRACTING CO.
8700 13TH AVENUE EAST
SHAKOPEE, MINNESOTA 55379

PROJECT: TWIN LAKES ESTATES
ELK RIVER

SHEET 21 OF 24 SHEETS

L:\Engineering\204043–TwinLakesEstates\204043DTL
Plot Date: Dec 05, 2006

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