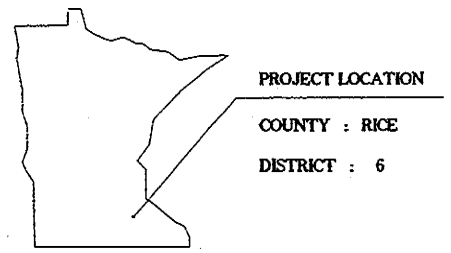
CITY OF FARIBAULT, MINNESOTA

CONSTRUCTION PLAN FOR BITUMINOUS OVERLAY, STORM SEWER, AGGREGATE BASE, CURB AND GUTTER, BITUMINOUS BASE AND CONCRETE SIDEWALK CONSTRUCTION

S.A.P. 125-123-008
SECOND AVENUE N.W.
BRIDGE, STREET, AND UTILITY RECONSTRUCTION

FROM 14TH STREET N.W. TO TRUNK HIGHWAY 3 (20TH STREET W.)

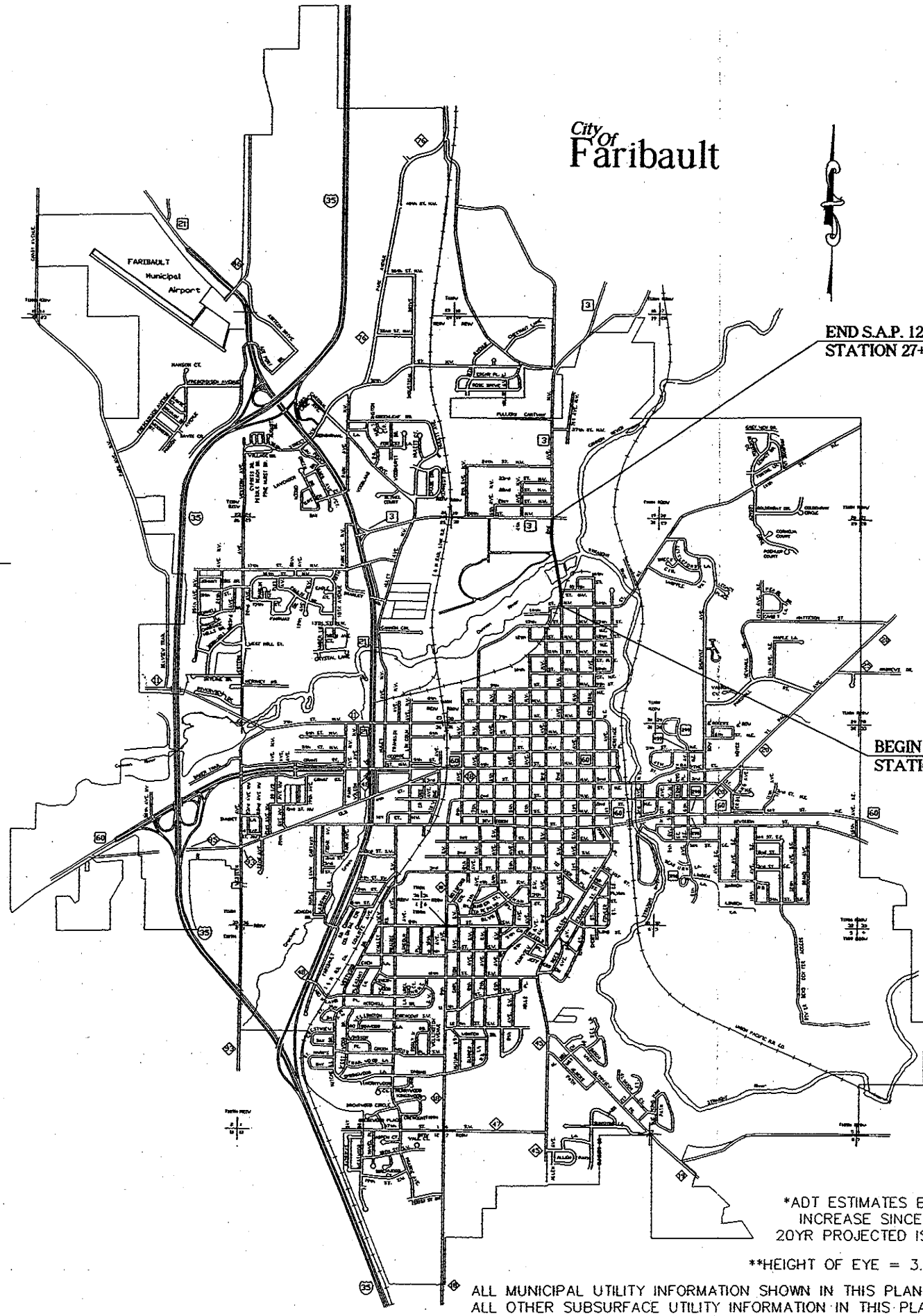
GROSS LENGTH	2344' / 0.444 mi.
BRIDGES LENGTH	350' / 0.066 mi.
EXCEPTIONS LENGTH	
NET LENGTH	1994' / 0.378 mi.



PROJECT LOCATION

COUNTY : RICE

DISTRICT : 6



PLAN & PROFILE
SCALES

5' SHEETS 7-11
2' SHEETS 12-14

30' SHEETS 7-11
10' SHEETS 12-14

INDEX OF SHEETS

SHEET NO. 1	TITLE SHEET & LOCATION
SHEET NO. 2-5	EST. QUANTITIES, DETAIL & SWPPP
SHEET NO. 6-7	TRAFFIC CONTROL / STRIPING DETAIL
SHEET NO. 8-12	PLAN PROFILE
SHEET NO. 13-15	CROSS SECTIONS

THIS PLAN CONTAINS 15 SHEETS

S.A.P. 125-123-008 SECOND AVENUE N.W.	
ADT / HCADT (2007 EST *)	11,559/682
ADT / HCADT (2027 EST *)	17,338/1023
FUNCTIONAL CLASSIFICATION	MAJOR COLLECTOR
NUMBER OF TRAFFIC LANES	4
NUMBER OF PARKING LANES	0
DESIGN STRENGTH	10 TON
DESIGN SPEED **	30 MPH
SOIL FACTOR	100%

*ADT ESTIMATES BASED ON 2.048% ANNUAL INCREASE SINCE 2005 TRAFFIC COUNTS. 20YR PROJECTED IS BASED ON A FACTOR 1.5

**HEIGHT OF EYE = 3.5', HEIGHT OF OBJECT = 2.0'

ALL MUNICIPAL UTILITY INFORMATION SHOWN IN THIS PLAN IS UTILITY QUALITY LEVEL "A". ALL OTHER SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL "D". THIS QUALITY LEVEL HAS BEEN DETERMINED ACCORDING TO THE GUIDLINES OF CI/ASCE 38-.2 ENTITLED "STANDARD GUIDLINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA".

GOVERNING SPECIFICATIONS

THE 2005 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN.

ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS WILL BE COMPLIED WITH IN THE CONSTRUCTION OF THIS PROJECT.

CITY ENGINEER

DESIGN ENGINEER: 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.

DATE: 4/20/07 REGISTRATION NO. 16414

~~DEPT~~ DISTRICT STATE AID ENGINEER: REVIEWED FOR COMPLIANCE WITH STATE-AID RULES/POLICY DATE: May 22, 2007

FOR STATE AID ENGINEER: APPROVED FOR STATE AID FUNDING DATE: 6/12/07

CITY CONTRACT NO. 2007-06
MUNICIPAL S.A.P. 125-123-008

CITY OF FARIBAULT	PLAN NO. D-2931	SHEET 1 OF 15

STATEMENT OF ESTIMATED QUANTITIES

ITEM NO.	ITEM	UNIT	PARTICIPATING	NON-PARTICIPATING	TOTAL
2021.501	MOBILIZATION	LUMP SUM	1		1
2101.511	CLEARING AND GRUBBING	LUMP SUM	1		1
2104.501	REMOVE CONCRETE CURB AND GUTTER	LIN. FT.	3677		3677
2104.503	REMOVE CONCRETE DRIVEWAY / SIDEWALK	SQ. YD.	275		275
2104.509	REMOVE MANHOLE / CATCH BASIN	EACH	24		24
2104.509	REMOVE HYDRANT AND VALVE	EACH	1		1
2105.501	COMMON EXCAVATION (P)	CU. YD.	2900		2900
2105.507	SUBGRADE EXCAVATION	CU. YD.	800		800
2105.522	SELECT GRANULAR BORROW (CV)	CU. YD.	800		800
2105.601	DEWATERING	LUMP SUM		1	1
2130.501	WATER	(M) GAL	8		8
2211.503	AGGREGATE BASE PLACED, CLASS 5 (P)	CU. YD.	1870		1870
2232.501	MILL BITUMINOUS SURFACE	SQ. YD.	500		500
2350.501	TYPE MV4 WEARING COURSE MIXTURE (PG58-34)	TON	1118		1118
2350.502	TYPE MV3 NON-WEAR COURSE MIXTURE (PG58-34)	TON	705		705
2350.502	TYPE MV3 NON-WEAR COURSE MIXTURE (PG58-28)	TON	705		705
2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL.	677		677
2451.609	TRENCH STABILIZATION AGGREGATE	TON		300	300
2501.515	24" RC PIPE APRON	EACH		2	2
2501.515	15" RC PIPE APRON	EACH		1	1
2501.602	TRASH GUARD FOR 24" PIPE APRON	EACH		2	2
2501.602	TRASH GUARD FOR 15" PIPE APRON	EACH		1	1
2503.511	12" PVC PIPE SEWER	LIN. FT.		192	192
2503.541	24" RC PIPE SEWER DESIGN 3006G CLASS III	LIN. FT.		500	500
2503.541	18" RC PIPE SEWER DESIGN 3006G CLASS III	LIN. FT.		114	114
2503.541	15" RC PIPE SEWER DESIGN 3006G CLASS V	LIN. FT.		70	70
2503.541	12" RC PIPE SEWER DESIGN 3006G CLASS V	LIN. FT.		319	319
2503.602	CONNECT TO EXISTING SANITARY SEWER	EACH		3	3
2503.602	8"x4" PVC WYE	EACH		2	2
2503.603	8" PVC PIPE SEWER	LIN. FT.		318	318
2503.603	8" HDPE PIPE SEWER (DIRECTIONAL BORE)	LIN. FT.		80	80
2503.603	4" PVC PIPE SEWER	LIN. FT.		106	106
2504.602	HYDRANT W/ LEAD AND VALVE	EACH		3	3
2504.602	12" GATE VALVE	EACH		4	4
2504.602	8" GATE VALVE	EACH		1	1
2504.602	6" GATE VALVE	EACH		2	2
2504.603	12" D.I.P. WATERMAIN (CL 52)	LIN. FT.		600	600
2504.603	12" HDPE IPS-12 DR 11 WATERMAIN	LIN. FT.		693	693
2504.603	8" D.I.P. WATERMAIN	LIN. FT.		101	101
2504.603	6" D.I.P. WATERMAIN	LIN. FT.		267	267
2504.603	1" COPPER SERVICE PIPE	LIN. FT.		80	80
2504.608	WATERMAIN FITTINGS	LBS		2710	2710
2506.502	CONSTRUCT DRAINAGE STRUCTURE, 72" VAULT	EACH		2	2
2506.502	CONSTRUCT DRAINAGE STRUCTURE, DESIGN 4020-96"	EACH		1	1
2506.502	CONSTRUCT DRAINAGE STRUCTURE, DESIGN 4020-72"	EACH		2	2
2506.502	CONSTRUCT DRAINAGE STRUCTURE, DESIGN 4020-60" (SUMP)	EACH		1	1
2506.502	CONSTRUCT DRAINAGE STRUCTURE, DESIGN 4020-48"	EACH		3	3
2506.502	CONSTRUCT DRAINAGE STRUCTURE, DESIGN 4020-48" (SUMP)	EACH		1	1
2506.502	CONSTRUCT DRAINAGE STRUCTURE, DESIGN A	EACH		8	8
2506.602	CONSTRUCT MANHOLE SANITARY, DESIGN F	EACH		3	3
2511.501	RANDOM RIP RAP, CLASS III	CU. YD.		24	24
2521.501	4" CONCRETE SIDEWALK	SQ. FT.	6200		6200
2531.501	CONCRETE CURB & GUTTER, DESIGN B6-24	LIN. FT.	3354		3354
2531.501	CONCRETE CURB & GUTTER, DESIGN "VALLEY GUTTER"	LIN. FT.	371		371
2531.502	CONCRETE CURB, DESIGN B6	LIN. FT.	336		336
2531.507	6" CONCRETE DRIVEWAY PAVEMENT	SQ. YD.	90		90
2531.507	8" CONCRETE DRIVEWAY PAVEMENT	SQ. YD.	1752		1752
2531.602	PEDESTRIAN CURB RAMP	EACH	10		10
2563.601	TRAFFIC CONTROL	LUMP SUM	1		1
2564.602	PAVEMENT MESSAGE (LEFT ARROW) - EPOXY	EACH	6		6
2564.602	PAVEMENT MESSAGE (RIGHT/THRU ARROW) - EPOXY	EACH	6		6
2564.618	PAVEMENT MESSAGE (PAINTED YELLOW MEDIAN) - EPOXY	SQ. FT.	1260		1260
2573.502	SILT FENCE, TYPE "MACHINE SLICED"	LIN. FT.	800		800
2573.502	SILT FENCE, TYPE "SUPER DUTY"	LIN. FT.	500		500
2573.505	FLOTATION SILT CURTAIN, TYPE MOVING WATER	LIN. FT.	500		500
2573.507	TEMPORARY PIPE DRAIN	LIN. FT.	300		300
2573.530	INLET PROTECTION DEVICE	EACH	21		21
2575.505	SODDING, TYPE "LAWN"	SQ. YD.	5600		5600
2575.505	RAPID STABILIZATION METHOD 2	ACRE	2		2
2582.501	PAVEMENT MESSAGE (RAILROAD CROSSING) - EPOXY	EACH	2		2
2582.502	4" DOUBLE SOLID LINE YELLOW - EPOXY	LIN. FT.	2002		2002
2582.502	4" SOLID LINE WHITE - EPOXY	LIN. FT.	575		575
2582.502	4" BROKEN LINE WHITE - EPOXY	LIN. FT.	4018		4018
2582.502	24" SOLID LINE - EPOXY	LIN. FT.	96		96
SPEC. PROV.	SANITARY SEWER TELEVISING	LIN. FT.		398	398

STRUCTURES

LOCATION				STRUCTURES		CASTING ASSEMBLY	DIAM.
NO.	STA.	LT.	RT.	TYPE	DESIGN	TYPE	
101	8+72.89	6.25'		MH	F	700-7-712	48"
102	6+66.82	4.00'		MH	F	700-7-712	48"
103	4+75.06	4.00'		MH	F	700-7-712	48"
1	11+47.41		53.29'	FES	NA	TRASH GUARD	24"
1	9+13.58		25.29'	CB/MH	4020	R-3067-V	72"
1A	8+49.20		25.18'	CB	A	R-3067-V	24"X36"
2	9+05.13	25.09'		CB/MH	VAULT	R-3067-V	72"
3	8+57.34	25.13'		MH	VAULT	700-7-712	72"
4	6+79.10	25.23'		CB/MH	4020	R-3067-V	72"
5	5+65.18	25.30'		CB/MH	4020	R-3067-V	48"
5A	5+65.18		25.22'	CB/MH	4020	R-3067-V	24"x36"
5B	6+51.69		25.22'	CB	A	R-3067-V	24"x36"
6	4+96.74	11.49'		MH	4020	700-7-712	96"
7	13+42.17		25.67'	CB/MH	4020	R-3067-V	48"
7	13+42.17		33.92'	FES	NA	TRASH GUARD	15"
7A	13+42.17	25.67'		CB	A	R-3067-V	24"X36"
8	17+01.09		55.60'	FES	NA	TRASH GUARD	24"
8	17+19.98		39.88'	MH	4020	700-7-712	60"
9	20+48.54		6.18'	MH	4020	700-7-712	48"
9	20+48.54		25.67'	CB	A	R-3067-V	24"X36"
9A	20+48.54	31.96'		CB	A	R-3067-V	24"X36"
10	23+55.15		10.23'	MH	4020	700-7-712	48"
10	23+55.15		25.67'	CB	A	R-3067-V	24"X36"
10A	23+55.15	25.48'		CB	A	R-3067-V	24"X36"

NOTE: CB CASTINGS ARE CITY OF FARIBAULT SPECIFICATION.

CASTING SCHEDULE

CASTING	ITEM	CASTING NO.	NO. REQUIRED
MANHOLE	RING	700-7	8
	COVER	712	8
CATCH BASIN A	NEENAH OR EQUIVALENT	R-3067-V	13
S.O.V.	COVER	N.A.	7

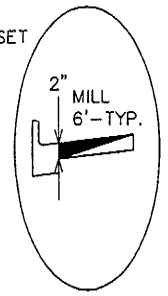
NOTE: CASTINGS ARE INCLUDED WITH STORM SEWER STRUCTURE PAY ITEMS

THE FOLLOWING STANDARD PLATES AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION SHALL APPLY ON THIS PROJECT

STANDARD PLATES

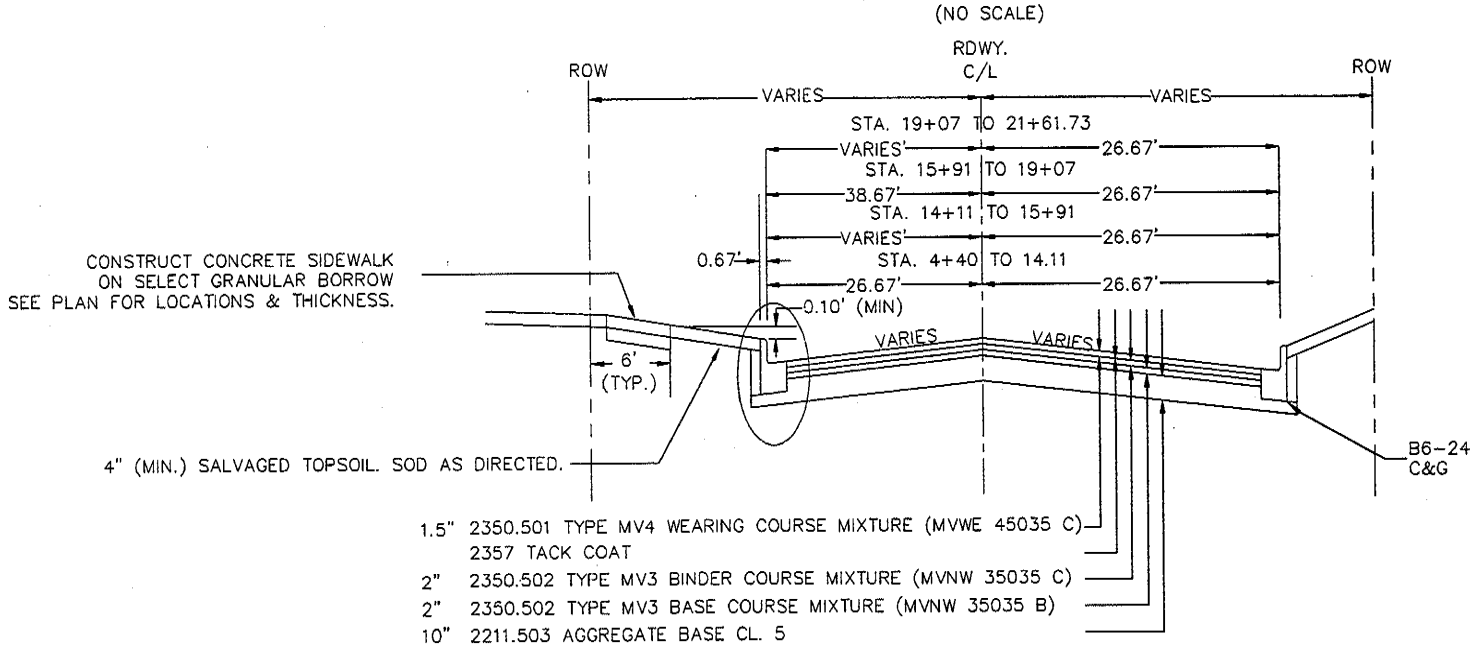
NUMERICAL INDEX OF STANDARD PLATES	
REINFORCED CONCRETE PIPE	3000L
GASKET JOINT FOR REINFORCED CONCRETE PIPE	3006G
CONCRETE APRON FOR REINFORCED CONCRETE PIPE	3100G
RIP RAP AT RCP OUTLETS	3133C
MANHOLE OR CATCH BASIN TYPE A & B CONE SECTIONS PRECAST - DESIGN F	4005L
PRECAST CONCRETE BASE	4011E
MANHOLE OR CATCH BASIN COVER	4020J
PRECAST CURB OPENING CATCH BASIN	4021F
RING CASTING FOR MANHOLE OR CATCH BASIN	4101D
COVER CASTING FOR MANHOLE	4110F
CURB BOX CASTING FOR CATCH BASIN	4160D
MANHOLE OR CATCH BASIN STEP	4180J
CONCRETE WALK AND CURB RETURNS AT ENTRANCES	7035M
PEDESTRIAN CURB RAMP FOR THE HANDICAPPED	7036F
CONCRETE CURB AND GUTTER	7100H
INSTALATION OF CATCH BASIN CASTINGS	7111J
INSTALLATION & REINFORCEMENT OF CATCH BASIN & MANHOLE CASTINGS	7112C
STANDARD BARRICADES	8000I

BITUMINOUS PAVEMENT MILLING DETAIL



ROADWAY SECTION

(NO SCALE)



CITY CONTRACT 2007-06
MUNICIPAL S.A.P. 125-123-008

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

THOMAS W. DRAKE, P.E. — DATE 4/20/07
LIC. NO. 19414

2007 SECOND AVENUE N.W. RECON
S.A.P. 125-123-008
14TH STREET N.W. TO TRUNK HIGHWAY 3

DESIGN BY: TWD | DRAWN BY: DJD
SCALE: HORIZ. N/A | VERT. N/A
DATE: MARCH 2007

City Of Faribault
ENGINEERING DEPARTMENT

PLAN: D-2931
SHEET 2 OF 15

STORM WATER POLLUTION PREVENTION PLAN

THIS SWPPP MUST REMAIN ONSITE THROUGHOUT PROJECT WITH INSPECTION LOGS AND ANY DOCUMENTED CHANGES

CONSTRUCTION ACTIVITY INFORMATION

PROJECT LOCATION: 2ND AVE NW FROM 14TH ST NW TO 20TH ST NW. BRIDGE REPLACEMENTS ON 2ND AVE AT NORTH AND SOUTH CHANNELS OVER CANNON RIVER.

PROJECT TYPE: STORM SEWER, SANITARY SEWER, WATERMAIN, STREET, CURB AND GUTTER IMPROVEMENTS AND BRIDGE REPLACEMENTS.

PROJECT AREA: TOTAL AREA = 4.5 ACRES ± RIGHT OF WAY
DISTURBED AREA = 4.0 ACRES ±
IMPERVIOUS SURFACE
EXISTING = 2.75 ACRES
PROPOSED = 3.50 ACRES
RECEIVING WATERS: WATER WILL DISCHARGE TO THE CANNON RIVER VIA NEWLY RECONSTRUCTED STORM SEWER.

CONTACT INFORMATION

OWNER: CITY OF FARIBAULT
PRIMARY SWPPP CONTACT: ADAM KORDIAK 507-333-0369
ALTERNATE CONTACT: THOMAS DRAKE, CITY ENGINEER 507-333-0365

CONTRACTOR: _____

EROSION CONTROL SUPERVISOR: _____

PHONE #: _____

CONSTRUCTION NOTES - EROSION PREVENTION/SEDIMENT CONTROL PRACTICES

1. PRIOR TO OPERATIONS, THE CONTRACTOR SHALL INSTALL SILT FENCE IN AREAS SPECIFIED IN THE PLANS.
2. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL EROSION AND SEDIMENT CONTROL MEASURES AS REQUIRED BY THE MPCA'S NPDES PERMIT FOR CONSTRUCTION. THIS INCLUDES ANY ADDITIONAL EROSION AND SEDIMENT CONTROLS BEYOND THAT SHOWN ON THE PLAN.
3. PHASED CONSTRUCTION SHALL BE USED TO MINIMIZE SEDIMENT TRANSPORT.
4. TURF ESTABLISHMENT &/OR TEMPORARY SEEDING SHALL TAKE PLACE ACCORDING TO THE CHART BELOW:

SLOPE	MAXIMUM TIME AREA CAN BE UNCOVERED
-STEEPER THAN 3:1	7 DAYS
-10:1 TO 3:1	14 DAYS
-FLATTER THAN 10:1	21 DAYS

FERTILIZER: 10-0-20 FERTILIZER DISTRIBUTED AT A RATE OF 250 LB/ACRE.

5. ENERGY DISSIPATION METHODS MUST BE INSTALLED WITHIN TWENTY FOUR HOURS AFTER CONNECTION TO STORM SEWER.
6. IF DOWN GRADIENT BMPS ARE OVERLOADED DURING A STORM EVENT, ADDITIONAL UP GRADIENT BMPS ARE REQUIRED TO ELIMINATE THE OVERLOADED. THE ADDITIONAL BMPS MUST BE RECORDED ON THIS SWPPP IN THE AMENDMENTS TO SWPPP SECTION.
7. TEMPORARY SOIL STOCKPILES MUST HAVE SILT FENCE OR OTHER EFFECTIVE SEDIMENT CONTROLS, AND CANNOT BE PLACED IN SURFACE WATERS INCLUDING STORM WATER CONVEYANCES SUCH AS CURB AND GUTTER SYSTEMS, OR CONDUITS AND DITCHES.
8. A ROCK CONSTRUCTION ENTRANCE MUST BE INSTALLED ACCORDING TO CITY SPECS AT EVERY PROJECT ENTRANCE. ROCK ENTRANCES MUST BE INSPECTED AND MAINTAINED TO ENSURE PROPER FUNCTION.
9. THE CONTRACTOR SHALL CLEAN ALL TRACKED MATERIALS ON ADJACENT ROADWAYS ON A DAILY BASIS AND AS NEEDED AT THE DISCRETION OF THE CITY ENGINEER AND/OR HIS DESIGNATED REPRESENTATIVES.
10. INLET PROTECTION CONFORMING TO THE DETAILS AND/OR SPECIAL PROVISIONS IS REQUIRED IN STORM INLET STRUCTURES AS WORK PROGRESSES.
11. THE CONTRACTOR IS RESPONSIBLE FOR ALL ERODED MATERIAL THAT LEAVES THE SITE. ALL ERODED MATERIAL SHALL BE GATHERED BY THE CONTRACTOR, REMOVED FROM DEPOSITION SITES AND RETURNED TO THE PROJECT.
12. A "RAMPING UP" METHOD OF BMP SELECTION SHALL BE USED IF CHOSEN BMPS PROVE TO BE INADEQUATE. (I.E. IF MACHINE SLICED SILT FENCE DOESN'T WORK THE NEXT BMP TO TRY MAY BE HEAVY DUTY SILT FENCE. IF THAT IS INADEQUATE THE NEXT BMP TO INSTALL MAY BE SUPER DUTY SILT FENCE OR A ROCK WEEPER.)

DEWATERING & BASIN DRAINING

1. WATER SHALL BE DISCHARGED IN A MANNER WHICH WILL NOT PRODUCE EROSION AND WILL BE TREATED BY SILT SOCK, TEMPORARY SETTLING BASIN, OR OTHER CITY APPROVED METHOD. THERE WILL BE NO DISCHARGE OF SEDIMENT LADEN WATER TO SURFACE WATERS.
2. DEWATERING AND BASIN DRAINING PRACTICES SHALL NOT PRODUCE NUISANCE CONDITIONS UPON NEIGHBORING PROPERTIES.

INSPECTIONS AND MAINTENANCE

1. THE CONTRACTOR SHALL PROVIDE AN EROSION CONTROL SUPERVISOR FOR THE PROJECT WHO SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THE PROJECT SWPPP.
2. THE CONTRACTOR IS RESPONSIBLE FOR INSPECTING THE PROJECT DURING ACTIVE CONSTRUCTION. THIS INCLUDES THE REQUIRED WEEKLY INSPECTIONS ALONG WITH INSPECTING CONSTRUCTION SITE BMPS AFTER EVERY STORM EVENT RESULTING IN 0.5 INCHES OF RAIN OR SNOWMELT IN A 24 HOUR PERIOD. REQUIREMENTS FOR INSPECTIONS CAN BE FOUND IN THE NPDES PERMIT REQUIREMENTS.
3. INSPECTION LOGS WILL BE KEPT ONSITE WITH THE PROJECT SWPPP FOR COMPLIANCE WITH THE NPDES GENERAL PERMIT.
4. THE CITY ENGINEER OR HIS DESIGNATED REPRESENTATIVES WILL ROUTINELY INSPECT THE CONSTRUCTION SITE FOR NPDES COMPLIANCE. UPON ENTERING THE SITE THE INSPECTOR SHALL REVIEW THE SITES STORMWATER POLLUTION PREVENTION PLAN (SWPPP), ALL INSPECTION LOGS, DOCUMENTATION OF BMP MAINTENENCE ACCORDING TO CONTRACTORS INSPECTION RESULTS, AND ANY CHANGES TO THE PROJECTS SWPPP.
5. THE PERMITTEE SHALL MAINTAIN ALL BMP'S ACCORDING TO MNDOT SPEC. 2573.3M.

POLLUTION PREVENTION

1. ALL SOLID OR HAZARDOUS WASTE COLLECTED OR GENERATED FROM THE PROJECT SITE SHALL BE DISPOSED OF ACCORDING TO APPLICABLE REGULATIONS.
2. ALL HAZARDOUS MATERIALS ONSITE SHALL BE STORED TO PREVENT LEAKS AND/OR SPILLS ACCORDING TO STATE AND FEDERAL STANDARDS.
3. ANY RUNOFF CONTAINING A HAZARDOUS MATERIAL SHALL BE COLLECTED AND PROPERLY DISPOSED OF.
4. IF A SPILL OCCURS OBSERVE THE SAFETY PRECAUTIONS ASSOCIATED WITH THE SPILLED MATERIAL. STOP THE SOURCE OF THE SPILL, IF POSSIBLE. CALL THE LOCAL FIRE AND/OR POLICE DEPARTMENTS IF FIRE OR PUBLIC SAFETY HAZARDS ARE CREATED. CONTAIN THE SPILLED MATERIAL. DIRT, SAND, OR ANY SEMI IMPERMEABLE MATERIAL MAY BE USED TO CREATE A CONTAINMENT STRUCTURE TO PREVENT THE MATERIAL FROM FLOWING. REPORT THE SPILL TO THE MINNESOTA POLLUTION CONTROL AGENCY (MPCA) THROUGH THE STATE DUTY OFFICER. 24 HOUR TELEPHONE NUMBERS ARE: 651/649-5451 OR 800/422-0798. CLEANUP THE SPILLED MATERIAL AND DISPOSE OF THE WASTES PROPERLY. WITH THE EXCEPTION OF USED OIL, WASTES GENERATED FROM PETROLEUM SPILLS THAT HAVE BEEN REPORTED AND CLEANED UP IMMEDIATELY ARE EXEMPT FROM MINNESOTA'S HAZARDOUS WASTE RULES. WASTE GENERATED FROM USED OIL SPILLS MUST BE SENT TO A FACILITY FOR ENERGY RECOVERY.
5. IF CONTAMINATED SOILS ARE DISCOVERED DURING THE COURSE OF THE PROJECT THE STATE DUTY OFFICER SHALL IMMEDIATELY BE CALLED AT THE NUMBER(S) STATED ABOVE AND EMERGENCY CONTAINMENT ACTIONS TAKEN. THE CITY SHALL ALSO BE NOTIFIED IMMEDIATELY.
6. TRASH AND CONSTRUCTION DEBRIS SHALL BE DESPOSED OF PROPERLY. PROPER MEASURES SHALL BE TAKEN BY THE CONTRACTOR TO KEEP DEBRIS FROM SURFACE WATERS DURING BRIDGE DECONSTRUCTION.

BRIDGE WORK EROSION AND SEDIMENTATION CONTROL

1. SLOPES WITHIN 200 FEET OF A SURFACE WATER REQUIRE RAPID STABILIZATION FOR CRITICAL AREAS AS PER MNDOT SPEC 2575.3N. THESE AREAS INCLUDE THE DISTURBED BANKS ALONG THE NORTH AND SOUTH CHANNELS OF THE CANNON RIVER.
2. LOCATIONS MARKED ON PLAN SHEETS REQUIRE SILT FENCE INSTALLATION BEFORE GRADING AND SITE WORK BEGINS.
3. TEMPORARY DOWNDRAINS MAY BE NEEDED AT RIVER CHANNELS DURING STREET RECONSTRUCT PHASE OF PROJECT. DOWNDRAINS SHALL TREAT RUNOFF FOR WATER QUALITY SUCH AS FILTERING THROUGH 1 - 2 INCH ROCK BEFORE DISCHARGE AND SHALL BE BUILT ACCORDING TO CITY REQUIRMENTS.
4. USE OF FLOATING SILT CURTAINS ARE REQUIRED DOWNSTEAM OF BRIDGE WORK IF FLOW CONDITIONS ALLOW TO MINIMIZE SEDIMENT TRANSPORT WITHIN WATERS OF THE STATE. MUST BE INSTALLED PRIOR TO ANY BRIDGE WORK AND BUILT ACCORDING TO FLOATATION SILT CURTAIN-TYPE: MOVING WATER DETAIL PLAN VIEW.
5. TEMPORARY ROCK BERMS SHALL BE USED TO SEPARATE WORK AREAS FROM FLOWING WATER TO MINIMIZE FILL FROM WASHING DOWNSTREAM.
6. CONCRETE WASH AREAS WILL NOT BE ALLOWED WITHIN 200 FT OF THE CANNON RIVER.

FINAL STABILIZATION

1. FINAL STABILIZATION SHALL BE ACHIEVED BY SODDING ALL DISTURBED AREAS. SOD SHALL BE STAKED IN AREAS WITH SLOPES GREATER THAN 4:1.
2. PERMITTEES MUST ENSURE STABILIZATION OF THE SITE ACCORDING TO THE SEEDING CHART.
3. THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ALL EROSION AND SEDIMENTATION CONTROL BMPS AS PART OF FINAL STABILIZATION.
4. OTHER FINAL STABILIZATION REQUIRMENTS CAN BE FOUND IN THE NPDES GENERAL PERMIT.

AMENDMENTS TO SWPPP — DATE

1.
2.
3.
4.
5.
6.
7.
8.
9.
10.
11.
12.
13.
14.
15.
16.
17.
18.

CITY CONTRACT 2007-06

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.
THOMAS W. DRAKE, P.E.
LIC. NO. 19414
DATE 4/20/07

DESIGN BY: TWD | DRAWN BY: DJD
SCALE: HORIZ. N/A | VERT. N/A
DATE: MARCH 2007

2ND AVE NW RECONSTRUCTION
SAP 125-123-008
14TH STREET NW TO TRUNK HIGHWAY 3

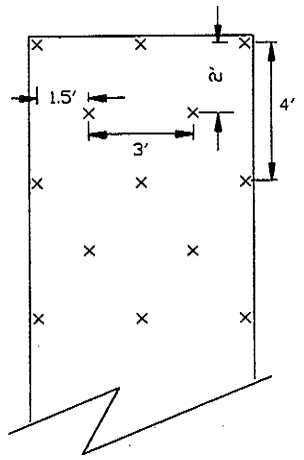
City of Faribault
ENGINEERING DEPARTMENT

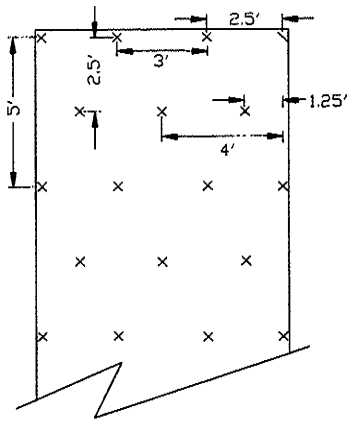
PLAN: D-2931

SHEET 3 OF 15

STANDARD 6.5 FT BLANKET STAPLING PATTERN

SLOPES 1:2 TO 1:1
(1.7 STAPLES PER SQ YD)





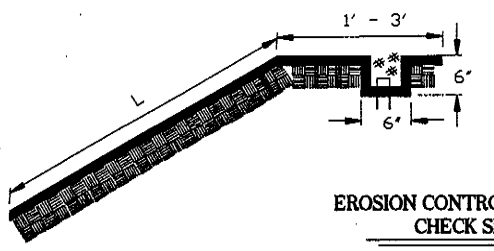
STANDARD 8FT BLANKET STAPLING PATTERN

SLOPES 1:2 TO 1:1
(1.7 STAPLES PER SQ YD)

GENERAL BLANKET INSTALLATION REQUIREMENTS

1. BLANKETS SHOULD BE LAID PARALLEL TO THE DIRECITON OF WATER FLOW.
2. OVERLAP ADJACENT STRIP EDGES A MINIMUM OF 4 INCHES.
3. OVERLAP STRIP ENDS A MINIMUM OF 7 INCHES WITH THE UPGRADE END ON TOP OF THE DOWNGRADE END. STAPLE ALONG OVERLAP EVERY 1.5 FEET.
4. THE UPPERMOST BLANKET OF ALL SLOPE APPLICATIONS MUST START IN A CHECK SLOT. IF SLOPE LENGTH (L) IS 100 FT OR GREATER, INSERT BLANKET INTO A CHECK SLOT 1/3 FROM THE BOTTOM OF THE SLOPE.
5. THE BEGINNING OF EACH BLANKET IN ALL DITCH APPLICATIONS MUST START IN A CHECK SLOT.

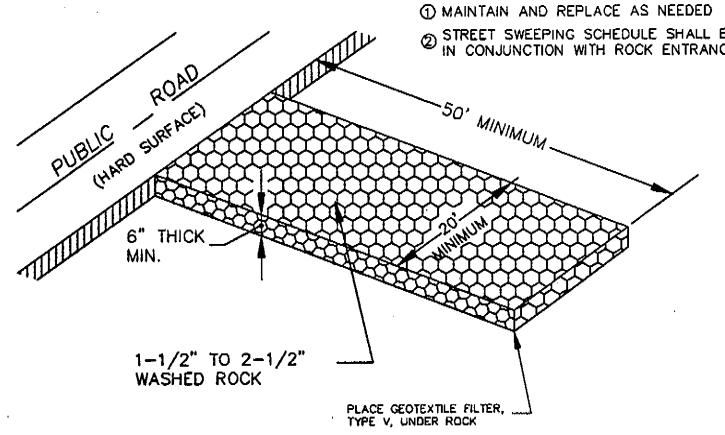
EROSION CONTROL BLANKET



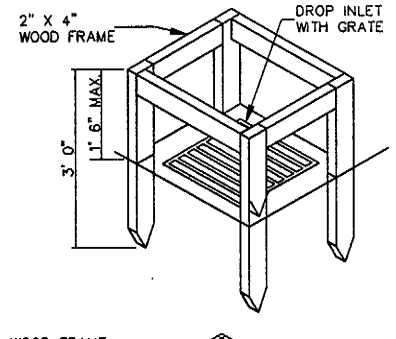
EROSION CONTROL BLANKET CHECK SLOT

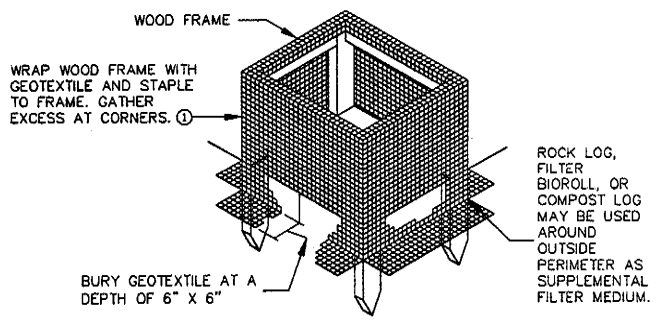
CHECK SLOT REQUIREMENTS

1. DIG 6 INCH BY 6 INCH TRENCH
2. INSERT BLANKET INTO ENTIRE TRENCH PERIMETER.
3. STAPLE BLANKET EVERY 1 FOOT ALONG THE BOTTOM OF THE TRENCH
4. BACKFILL TRENCH WITH SOIL AND COMPACT.



ROCK CONSTRUCTION ENTRANCE



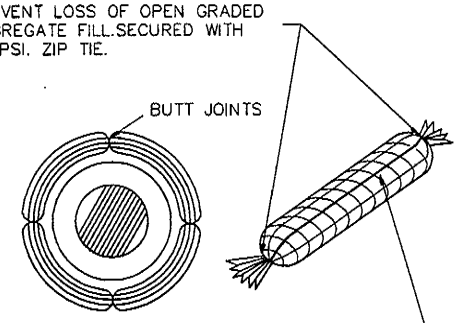


① ALL GEOTEXTILE USED FOR INLET PROTECTION SHALL BE MONO/MONO, MEETING SPEC. 3886 FOR MACHINE SLICED. USE WHERE INLET DRAINS AN AREA WITH SLOPES AT 1:3 OR LESS

TYPE D SPEC 3891D

TYPE D INLET PROTECTION

ENDS SECURELY CLOSED TO PREVENT LOSS OF OPEN GRADED AGGREGATE FILL.SECURED WITH 50 PSI. ZIP TIE.

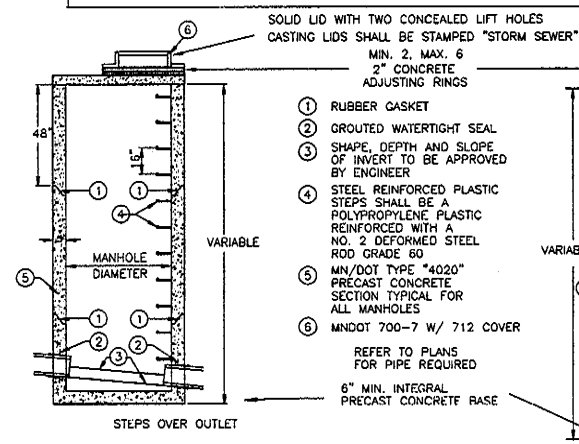


4' LONG AND 5" DIAMETER GEOTEXTILE SOCK. SEAM JOINED BY TWO ROWS OF STITCHING WITH A PLASTIC MESH BACKING OR HEATBONDED. (OR APPROVED EQUIVALENT)

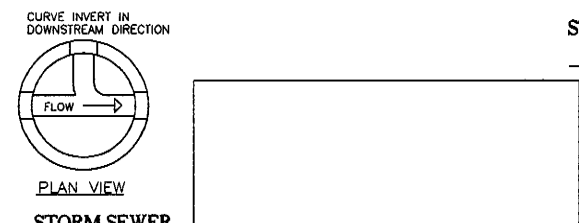
FILL ROCK LOG WITH OPEN GRADED AGGREGATE CONSISTING OF SOUND, DURABLE PARTICLES OF CRUSHED QUARRY ROCK OR GRAVEL CONFORMING TO 3137, CA-3 GRADATION (OR EQUIVALENT).

TYPE A SPEC. 3891A

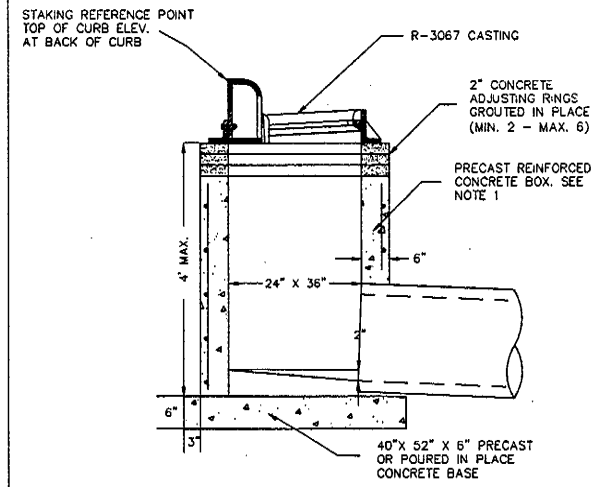
TYPE A INLET PROTECTION WITH ROCK LOG



STORM SEWER SUMP MANHOLE



STORM SEWER MANHOLE

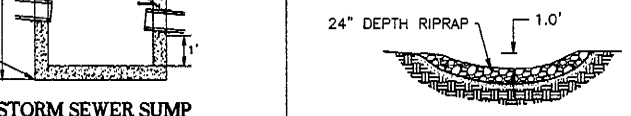


NOTES:

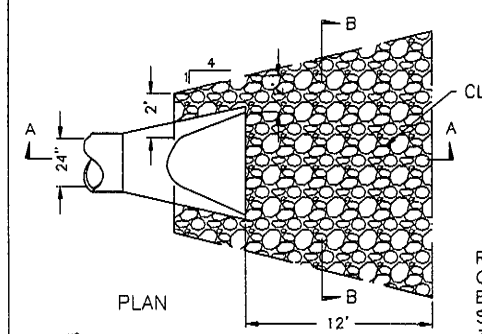
1. REINFORCING SHALL CONSIST OF A SINGLE LINE OF STEEL WIRE FABRIC HAVING AN AREA OF NOT LESS THAN 0.17 SQ. IN. PER FOOT OF HEIGHT.

2. CONCRETE BLOCK CONSTRUCTION IS ACCEPTABLE IF BLOCK IS PLASTERED ON THE EXTERIOR AND GROUTED ON THE INTERIOR.

DESIGN "A" CATCH BASIN



SECTION B-B



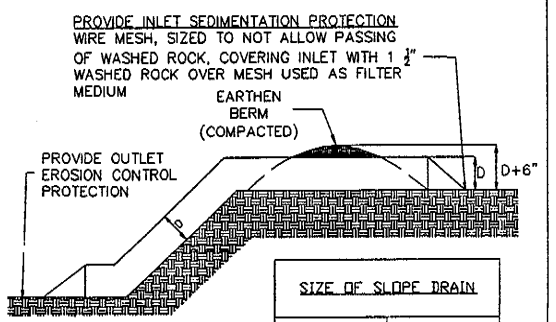
RIP RAP CONSTRUCTION WILL BE CONSTRUCTED PER STANDARD PLATE 3133C

GEOTEXTILE FABRIC, PER SPEC. 3601. THE FABRIC SHOULD COVER THE AREA OF THE RIPRAP AND EXTEND UNDER THE CULVERT APRON THREE FEET.

SECTION A-A

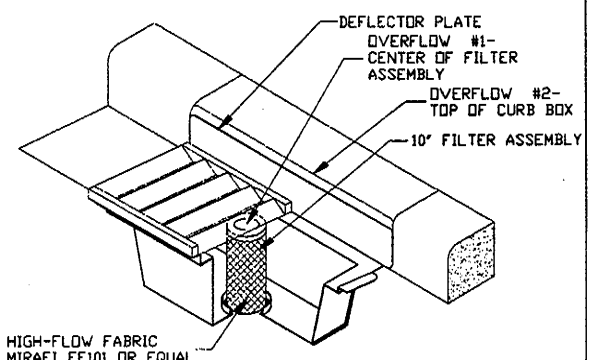
FES RIP RAP DETAIL

PROVIDE INLET SEDIMENTATION PROTECTION
WIRE MESH, SIZED TO NOT ALLOW PASSING OF WASHED ROCK, COVERING INLET WITH 1 ½" WASHED ROCK OVER MESH USED AS FILTER MEDIUM

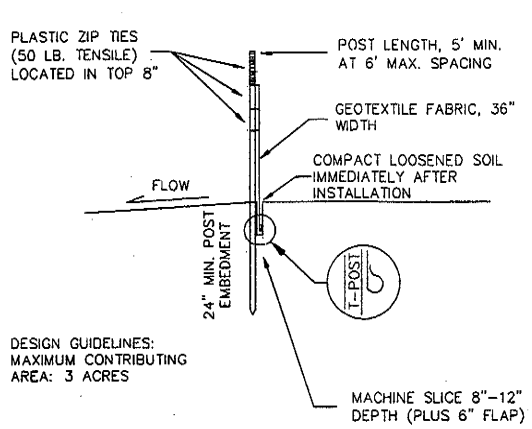


SIZE OF SLOPE DRAIN	
DRAINAGE AREA (ACRES)	PIPE SIZE-D (INCHES)
< 1.5	12"
1.5 to 5.0	18"
5.0 to 10.0	24"

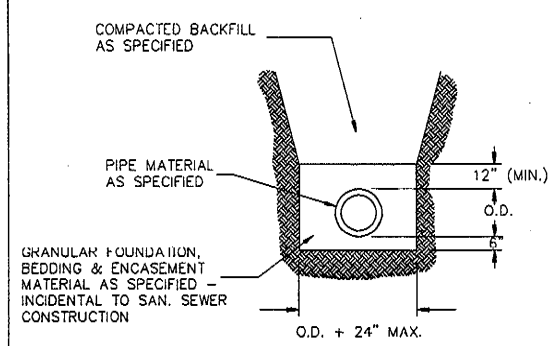
TEMPORARY DOWN DRAIN



INLET PROTECTION - CB INSERT



STANDARD MACHINE SLICED SILT FENCE



TRENCH DETAIL RC PIPE SEWER

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.

THOMAS W. DRAKE, P.E. DATE 4/20/07
LIC. NO. 18414

DESIGN BY: TWD DRAWN BY: DJD
SCALE: HORIZ. N/A VERT. N/A
DATE: MARCH 2007

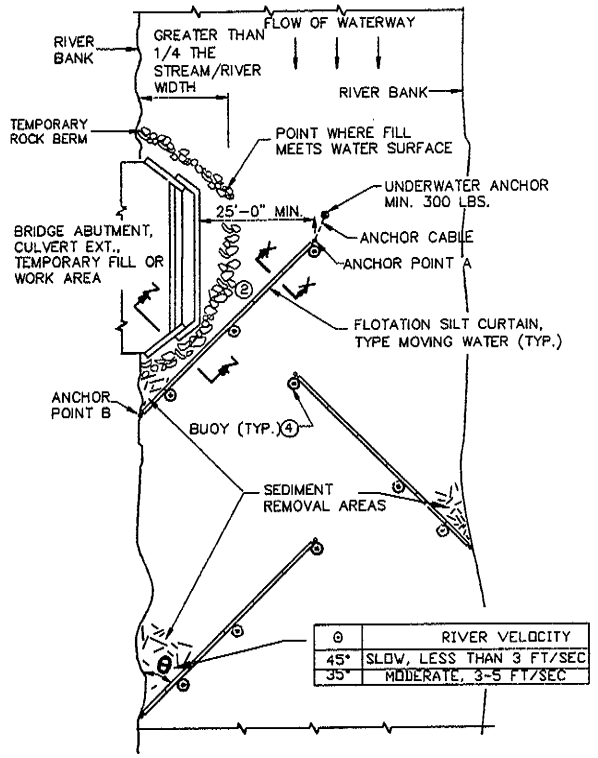
2ND AVE NW RECONSTRUCTION
SAP 125-123-008
14TH STREET NW TO TRUNK HIGHWAY 3

City of Faribault
ENGINEERING DEPARTMENT

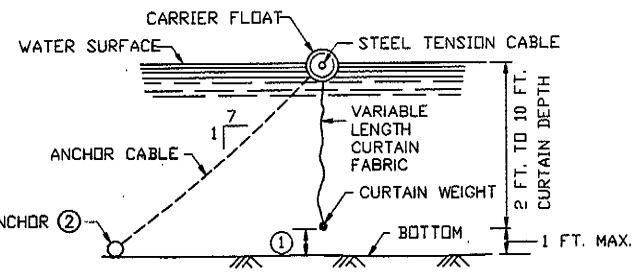
PLAN: D-2931

SHEET 4 OF 15

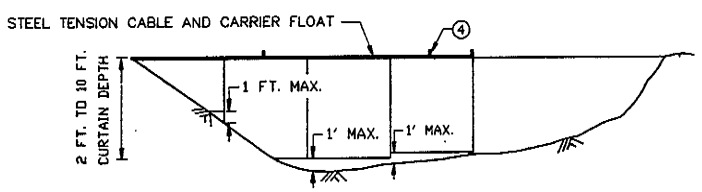
CITY CONTRACT 2007-06



PLAN VIEW (TYPE: MOVING WATER)

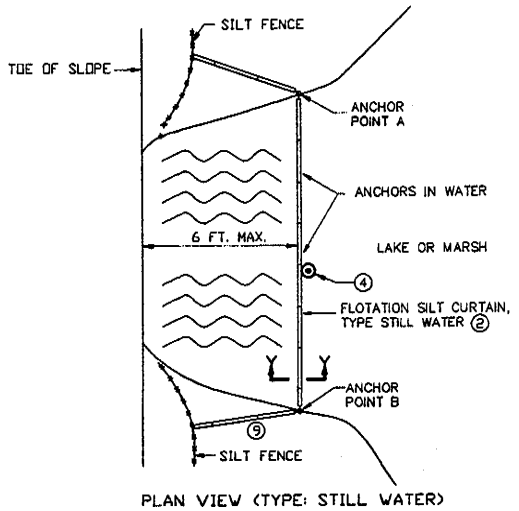


SECTION X-X

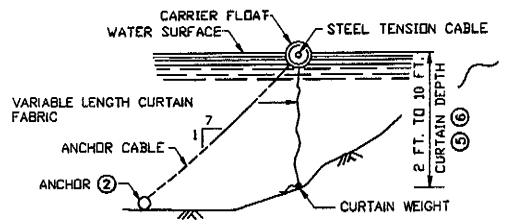


FLOTATION SILT CURTAIN - TYPE: MOVING WATER ⑤

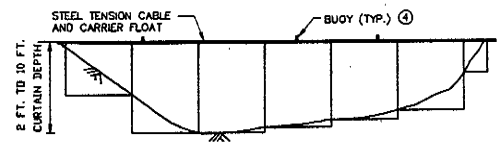
USE FOR SMALLER RIVERS WITH SLOW AND MODERATE VELOCITIES



PLAN VIEW (TYPE: STILL WATER)

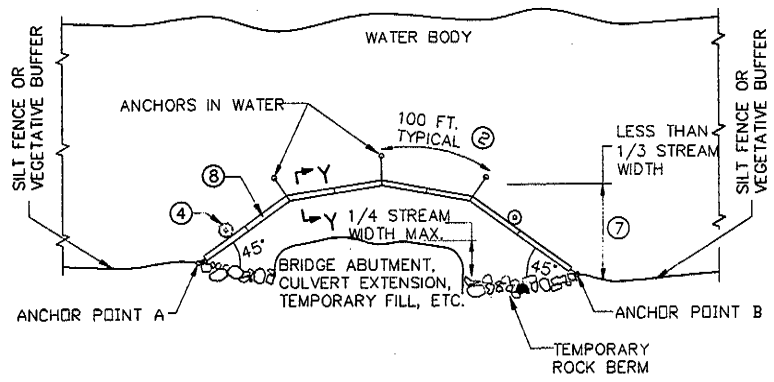


SECTION Y-Y



FLOTATION SILT CURTAIN - TYPE: WORK AREA AND STILL WATER ⑤

FOR CONTAINING OVERFLOWS FROM WEIRS, STANDPIPES, SETTLING PONDS



PLAN VIEW (TYPE: WORK AREA)

NOTES:

SEE SPECS. 2573 & 3887.

① CURTAIN EXTENDS TO 1 FT. MAXIMUM FROM BOTTOM OF WATER BODY.

② FOR ANCHOR AND WEIGHT REQUIREMENTS, SEE SPEC. 2573.

③ IN AREAS WHERE THE PLAN CALLS FOR RIPRAP AT THE BRIDGE, A TEMPORARY ROCK BERM WILL BE USED TO PROVIDE ADDITIONAL PROTECTION. THE TEMPORARY ROCK BERM IS INCIDENTAL FOR WHICH NO DIRECT PAYMENT WILL BE MADE.

④ ON U.S. COAST GUARD OR OTHER MOTORIZED WATERWAYS, BUOYS ARE REQUIRED TO MARK THE ENDS AND SPECIAL AREAS FOR VISIBILITY. PLACE BUOYS AS REQUIRED FOR NAVIGATIONAL PURPOSES.

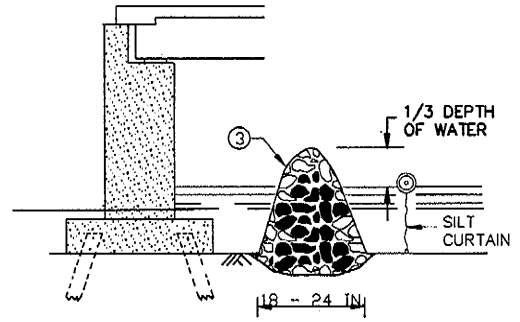
⑤ WATER DEPTH CAN BE 0 TO 10 FEET, 0 TO 11 FEET FOR TYPE MOVING WATER.

⑥ SILT CURTAIN HEIGHT INCLUDES MAXIMUM WAVE HEIGHT FOR WATER BODY.

⑦ KEEP AS CLOSE TO WORK AREA AS POSSIBLE.

⑧ SILT CURTAIN, ROCK BERM OR SHEET PILE AS REQUIRED TO CONTROL THE INFILTRATION OF SILT.

⑨ IF 6 INCHES OR LESS OF WATER, USE BALE BARRIERS, SEE SHEET 2.



SECTION Z-Z TEMPORARY ROCK BERM
FOR SEDIMENT CONTROL

DESIGN GUIDELINES: MOVING WATER

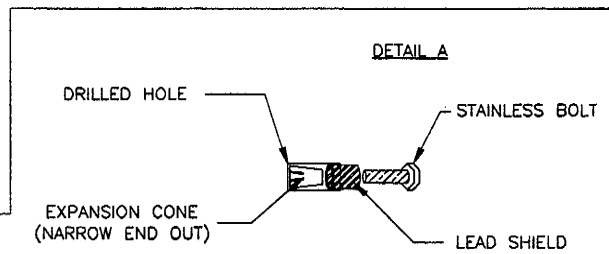
WHEN TEMPORARY FILL ENCROACHES MORE THAN 1/4 BUT LESS THAN 1/3 WIDTH OF THE STREAM.
MINIMUM WATER DEPTH: 3 FT.
MAXIMUM WATER DEPTH: 11 FT.
MAXIMUM WATER VELOCITY: 5 FT./SEC. ① ⑥
ROCK BERM SHALL BE 3' HIGH AND 6' WIDE AT BASE WITH TAPERED SIDES.

DESIGN GUIDELINES: WORK AREA

WHEN TEMPORARY FILL ENCROACHES LESS THAN 1/4 OF THE WIDTH OF STREAM.
MAXIMUM WATER DEPTH: 10 FT.
MAXIMUM WATER VELOCITY: 5 FT./SEC.

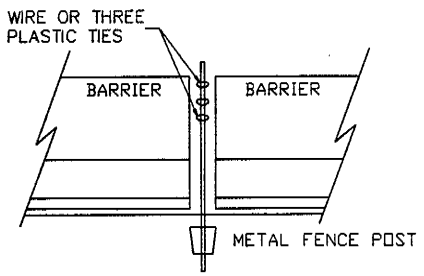
DESIGN GUIDELINES: ⑥
STILL WATER

MINIMUM WATER DEPTH: 0 FT.
MAXIMUM WATER DEPTH: 10 FT.

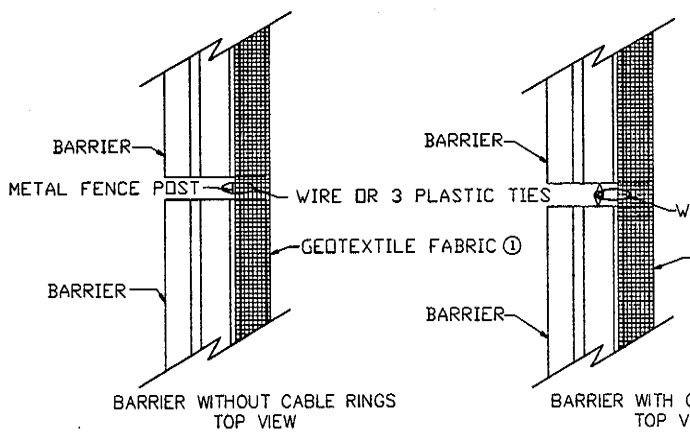


SUPER DUTY SILT FENCE

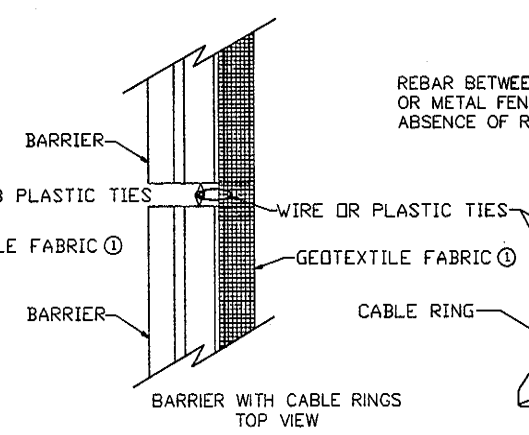
① GEOTEXTILE FABRIC, TYPE WOVEN MONOFILAMENT CONFORMING TO SPEC. 3886, TABLE 3886-1.



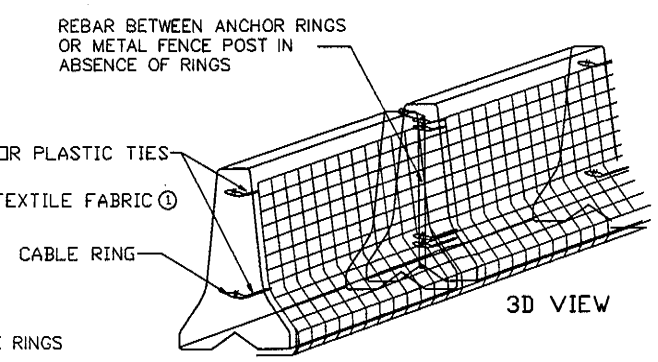
BARRIER WITHOUT CABLE RINGS
SIDE VIEW



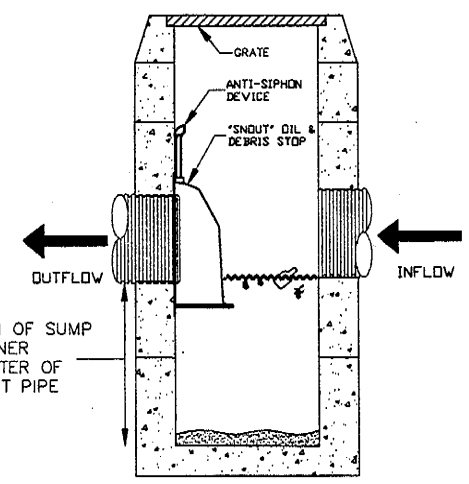
BARRIER WITHOUT CABLE RINGS
TOP VIEW



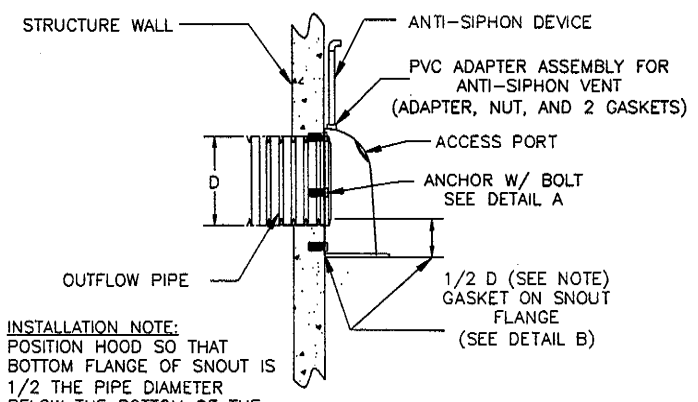
BARRIER WITH CABLE RINGS
TOP VIEW



3D VIEW

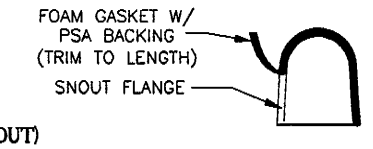


BEST MANAGEMENT PRODUCTS, INC.
SNOUT OIL & DEBRIS STOP OR EQUAL
INSTALLATION DIAGRAM (TYPICAL)



INSTALLATION NOTE:
POSITION HOOD SO THAT BOTTOM FLANGE OF SNOUT IS 1/2 THE PIPE DIAMETER BELOW THE BOTTOM OF THE PIPE FOR PIPES >12" ID. FOR PIPES < 10" ID PLACE SNOUT 6" (MIN.) BELOW BOTTOM OF PIPE.

DETAIL B



OIL & DEBRIS SEPERATOR BAFFLE (SNOUT)

CITY CONTRACT 2007-06

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.
THOMAS W. DRAKE, P.E.
DATE 9/29/7

DESIGN BY: TWD | DRAWN BY: DJD
SCALE: HORIZ. N/A | VERT. N/A
DATE: MARCH 2007

2ND AVE NW RECONSTRUCTION
SAP 125-123-008
14TH STREET NW TO TRUNK HIGHWAY 3

City Of Faribault
ENGINEERING DEPARTMENT

PLAN: D-2931
SHEET 5 OF 15

INSTALL 12" 22 1/2" BEND
STA. 9+94.5, 26.5' LT.

INSTALL 12"x6" TEE
STA. 14+00.0, 51.5' LT.

INSTALL 12" S.O.V.
STA. 14+05.5, 51.5' LT.

INSTALL 12" 11 1/4" BEND
STA. 10+81.5, 48' LT.

INSTALL HYDRANT
STA. 14+00.0, 40' LT.

BENCH MARK
TOP NUT HYDRANT (EXIST.)
2ND AVENUE & 14TH ST. N.W.
ELEVATION 973.83

BEGIN 15:1 CURB TAPER
STA. 14+11.00, 26.67' LT.

END 15:1 CURB TAPER
STA. 15+91.00, 38.67' LT.

CONSTRUCT 3.0'
CONC. VALLEY GUTTER
THRU DRIVEWAY (TYP.)

REMOVE EXIST. CONC. SDWK.
CONSTRUCT 5' WIDE, 4" THICK
CONCRETE SDWK. (TYP.)

MATCH LINE
STA. 16+00.00
SEE SHEET 11

MATCHLINE
STA. 9+75.00
SEE SHEET 8 & 9

ALL EXISTING PIPES NOT REMOVED DUE TO ROADWAY, UTILITY, OR BRIDGE CONSTRUCTION SHALL BE BULKHEADED AS DIRECTED BY ENGINEER – (TYP.)

BITUMINOUS PARKING LOT
EXIST. C&G
P.T. STA. 10+00.00
C/L ELEV. 970.59
EXIST. SDWK
RET. WALL
SIGN
EDGE CANNON RIVER SOUTH CHANNEL
519 L.F. 12" HDPE WATERMAIN
105 L.F. 12" RCP
24" STORM
EXIST. FES
EXCEL MH
179.5 L.F. 24" RCP
EXIST. 24" SAN.
BITUMINOUS DRIVE
INSTALL SILT FENCE AS DIRECTED (TYP.)
FES-1
REFER TO SAP 125-123-005
DEMOLITION OF BRIDGE NO. 3579
& CONST. OF BRIDGE NO. 66547
CB-7A
CB/MH-7
FES-7
52.00' F-F
100.00' R.O.W.
CONSTRUCT B6-24
CURB & GUTTER (TYP.)
PRIVATE UTILITIES TO BE
MOVED BY OTHERS (TYP.)
REMOVE EXIST. B6-24
CURB & GUTTER (TYP.)
12" CMP
DENOTES REMOVAL
0 30 60
SCALE IN FEET

SECOND AVENUE N.W.

T. CURB ELEV. LT.
C/L ELEVATION
T. CURB ELEV. RT.

970.87 970.59 970.63 970.61 970.53 970.41 970.16 969.91 969.67 969.42 969.32 969.30 969.37 969.52 969.95 970.36 970.46 970.47 970.39 970.22

*NOTE: C/L ELEV. -0.10' EQUALS T. CURB UNLESS OTHERWISE DENOTED

MATCHLINE
STA. 9+75.00
SEE SHEET 8 & 9

100.00' V.C.
m=-0.11' k=111.42
H.P. STA. 10+28.78
C/L ELEV. 970.63

100.00' V.C.
m=+0.17' k=74.06
L.P. STA. 13+42.17
C/L ELEV. 969.30

100.00' V.C.
m=-0.19' k=65.25
H.P. STA. 15+40.05
C/L ELEV. 970.48

VPC STA. 9+84.21
C/L ELEV. 970.54
10' RAD. PT. STA. 9+81.22
36.67' LT. T. CURB EL. 970.55
VPI STA. 10+34.21
ELEV. 970.74
14.5' RAD. PT. STA. 10+60.90
41.17' T. CURB EL. 970.58
BEG. APPROACH PANEL
VPT STA. 10+84.21
C/L ELEV. 970.49
END APPROACH PANEL
VPC STA. 13+05.32
C/L ELEV. 969.39
CB/MH-7 STA. 13+42.17
T. CAST ELEV. 969.20
VPI STA. 13+55.32
ELEV. 969.14
VPT STA. 14+05.32
C/L ELEV. 969.57
9.4' RAD PT. STA. 14+33.24
37.5' LT. T. CURB EL. 969.80
7.75' RAD. PT. STA. 14+77.31
38.9' LT. T. CURB EL. 970.18
VPC STA. 14+84.42
C/L ELEV. 970.24
VPI STA. 15+34.42
ELEV. 970.67
BEGIN APPROACH PANEL
VPT STA. 15+84.42
C/L ELEV. 970.33

MATCH LINE
STA. 16+00.00
SEE SHEET 11

985 980 975 970 965 960 955 950 945

+0.40% -0.50% +0.85% -0.68%

PROPOSED C/L PROFILE
EXISTING C/L PROFILE
EXISTING PROFILE OVER PROPOSED WATERMAIN
APPROXIMATE CHANNEL BOTTOM
179.5 L.F. 24" RCP @ -0.20%
F.E.S.-1
I.E. 955.31
5.0' (MIN.)
I.E. 964.40 E-15"
I.E. 964.65 W-12"
7.5 (MIN.)
DIRECTIONAL BORE 519 L.F. 12" HDPE WATERMAIN AS DIRECTED

FES 1, DESIGN FES W/ TRASHGAURD
RDWY STA. 11+53.34, 54.8' RT.
I.E. 955.31
240.5 L.F. 24" RCP @ 0.20% TO CB/MH 1
INSTALL 12 CU. YDS CL. IV RIP RAP
GRADE TO DRAIN

FES 7, DESIGN FES
RDWY STA. 13+42.17, 40.0' RT.
I.E. 964.00
8.0 L.F. 15" RCP @ 5.00% TO CB/MH 7

CB/MH-7, DESIGN 4020-48" (SUMP)
W/ OIL & DEBRIS SEPERATOR BAFFEL
RDWY STA. 13+42.17, 26.67' RT.
T. CAST ELEV. 969.20
T. BARREL ELEV. 967.70
I.E. 964.40 E-15", I.E. 964.65 W-12"
I.E. 960.40 SUMP
50 LF 12" RCP @ 1.20% TO CB 7A

CB-7A, DESIGN A
RDWY STA. 13+42.17, 26.67' LT.
T. CAST ELEV. 969.20
T. BARREL ELEV. 967.70
I.E. 965.25 E-12"

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.
THOMAS W. DRAKE, P.E.
LIC. NO. 19414
DATE 4/2/07

DESIGN BY: TWD DRAWN BY: DJD
SCALE: HORZ. 1"=30' VERT. 1"=5'
DATE: MARCH 2007

2ND AVENUE N.W. RECONSTRUCTION
S.A.P. 125-123-008
14TH STREET N.W. TO TRUNK HIGHWAY 3

City Of Faribault
ENGINEERING DEPARTMENT

PLAN: D-2931
SHEET 10 OF 15

42 of 2

** NORTH ALEXANDER PARK WATERMAIN LOOP
INSTALL 215 LF 6" D.I.P. WATERMAIN AS DIRECTED

CONNECT TO EXIST. 6" D.I.P.
STA 19+54, 407' LT.
STA. 20+43, 285.5' LT.

INSTALL 6" GATE VALVE
STA. 19+33.5, 310' LT.
STA. 20+43, 285.5' LT.

INSTALL 90° BEND
STA 19+32, 308' LT.

INSTALL HYD. W/LEAD & VALVE
STA 20+36, 285.5' LT.

INSTALL 22½° BEND
STA 17+50, 53' LT.
STA. 17+95, 24.5' LT.

INSTALL 12"x6" TEE
STA 18+30, 24.5' LT.

INSTALL HYD. W/ LEAD & VALVE
STA. 18+30, 41.5' LT.

INSTALL 12" S.O.V.
STA 18+37, 24.5' LT.

INSTALL 12" 11¼° BEND
STA 21+56, 29.5' LT.

INSTALL 12"x6" TEE
STA 21+59, 29' LT.

INSTALL 12" S.O.V.
STA 21+64, 28.5' LT.

INSTALL 12"X8" REDUCER &
CONNECT TO EXIST. 8" MAIN
STA. 21+66, 28.5' LT.

MATCH LINE
STA. 16+00.00
SEE SHEET 10

ALL EXISTING PIPES NOT REMOVED DUE TO ROADWAY, UTILITY, OR BRIDGE CONSTRUCTION SHALL BE BULKHEADED AS DIRECTED BY ENGINEER – (TYP.)

REFER TO SAP 125-123-006 DEMOLITION OF BRIDGE NO. 3578 & CONST. OF BRIDGE NO. 66546

INSTALL SILT FENCE AS DIRECTED (TYP.)

NORTH ALEXANDER PARK

1 STORM OUTLET

CONSTRUCT 5' WIDE, 4" THICK CONCRETE SDWK. (TYP.)

REMOVE EXIST. CONC. SIDEWALK (TYP.)

174 L.F. 12" HDPE WATERMAIN

TEL. PED.

64.50' F-F

BEGIN CURB TAPER
STA. 19+07.76
38.67' LT

VAR. R.O.W.

374 L.F. 12" D.I.P. WATERMAIN

MH-8

FES-8

SIGN TO BE MOVED BY OTHERS

CONSTRUCT B6-24 CURB & GUTTER (TYP.)

CONSTRUCT 3.0' CONC. VALLEY GUTTER THRU DRIVEWAY (TYP.)

EASEMENT

BITUMINOUS PARKING LOT

BITUMINOUS PARKING LOT

HISTORICAL MUSEUM

P.C. STA. 20+71.41
C/L ELEV. 967.39

PHONE PEDESTAL TO BE MOVED BY OTHERS

SIGN TO BE MOVED BY OTHERS

SAN MH

SATELITE DISH

HOUSE

END CURB/ TAPER
STA. 20+93.36
31.36' LT

END FULL WIDTH ROADWAY RECONSTRUCTION
STA. 21+76.00

MH-9

CB-9A

CB-9B

PRIVATE UTILITIES TO BE MOVED BY OTHERS (TYP.)

FARIBAULT WOOLEN MILL OUTLET STORE

FULL DEPTH ROADWAY REMOVAL

C/L CURVE DATA
DELTA = 12°26'53"
R = 1047
T = 62.03'
L = 227.47'
D = 5.47
P.I. = 21+33.44

MATCH LINE
STA. 22+50.00
SEE SHEET 12

BENCH MARK
TOP NUT HYDRANT (EXIST.)
2ND AVENUE & T.H.3
ELEVATION 976.29

DENOTES REMOVAL

SCALE IN FEET 0 30 60

SECOND AVENUE N.W.

	16+00	+25	+50	+75	17+00	+25	+50	+75	18+00	+25	+50	+75	19+00	+25	+50	+75	20+00	+25	+50	+75	21+00	+25	+50	+75	22+00	+25	+50
T. CURB ELEV. LT.																											
C/L ELEVATION	970.21	970.05	969.88	969.71	969.52	969.37	969.20	969.03	968.86	968.69	968.52	968.35	968.18	968.01	967.84	967.67	967.51	967.39	967.36	967.40	967.52	967.67	967.81	967.96	968.10	968.23	968.36
T. CURB ELEV. RT.																											

*NOTE: C/L ELEV. -0.10' EQUALS T. CURB UNLESS OTHERWISE DENOTED

985 980 975 970 965 960 955 950 945 940

MATCH LINE
STA. 16+00.00
SEE SHEET 10

PROPOSED C/L PROFILE

EXISTING C/L PROFILE

APPROXIMATE CHANNEL BOTTOM

5.0' (MIN.)

DIRECTIONAL BORE 174 L.F. 12" HDPE WATERMAIN AS DIRECTED

END APPROACH PANEL STA.17+13.58, C/L ELEV. 969.42
MH-8, STA. 17+19.98, 38.01' RT., T.CAST 969.29

14.5' RAD. PT. STA. 17+68.23
41.2' RT. CURB EL. 968.86

14.5' RAD. PT. STA. 18+32.52
41.2' RT. CURB EL. 968.42

14.5' RAD. PT. STA. 18+34.13
53.2' LT. T. CURB EL. 968.41

-0.68%

20' RAD. PT., STA. 19+27.05
57.9' LT. T. CURB EL. 967.78

20' RAD. PT. STA. 19+29.01
52.3' LT T. CURB EL 967.76

14.5' RAD. PT., STA. 19+85.01
50' LT. T. CURB EL. 967.39
VPC STA. 19+94.53
C/L ELEV. 967.54'

14.5' RAD. PT. STA. 20+11.97
41.2' RT. T. CURB EL 967.2

100.00' V.C.
m = +16' k = 79.42
L.P. STA. 20+48.54
C/L ELEV. 967.36

VPI STA. 20+44.53 ELEV. 967.20
MH-9, STA. 20+48.54
6.21' RT., T.CAST 967.32
14.5' RAD. PT. 20+64.88
41.2' RT. T. CURB EL 967.37

10' RAD. PT. STA. 20+93.15
41.4' RT. T. CURB EL 967.36
VPT STA. 20+94.53
C/L ELEV. 967.49

11.2' RAD. PT., STA. 21+44.78
42.8' LT. T. CURB EL. 967.78

+0.58%

VPI STA. 22+00.00
ELEV. 968.10

374 L.F. 12" D.I.P. WATERMAIN

EXIST. 18" RCP

EXIST. 18" RCP

I.E. 962.38 E&W-12"
I.E. 959.76 N&S-18"

CONNECT TO EXIST. 8" WATERMAIN STA. 21+66, 28.5' LT.

EXIST. 24" RCP
I.E. 953.88 N-24"
I.E. 953.78 SE-24"
I.E. 948.78 SUMP

FES-8, DESIGN F.E.S. W/TRASHGAURD
RDWY STA. 17+01, 55.6' RT
I.E. 953.48
INSTALL 12 CU. YDS. CL. IV RIP RAP
26 LF 24" @ 1.14% TO MH-8

MH-8, DESIGN 4020 – 60" (SUMP)
W/ OIL & DERIS SEPERATOR BAFFEL
RDWY STA. 17+19.98, 38.0' RT.
T. CAST ELEV. 969.29
T. SLAB ELEV. 968.29
I.E. 953.88 N-24"
I.E. 953.78 SE-24"
I.E. 948.78 SUMP
CONNECT TO EXISTING 24" RCP

MH-9, DESIGN 4020 – 48"
RDWY STA. 20+48.54, 6.21' RT
T. CAST ELEV. 967.32
T. SLAB ELEV. 966.32
I.E. 962.38 E&W-12"
I.E. 959.76 N&S-18"
CONNECT TO EXISTING 18" RCP
19.5 LF 12" RCP @ 1.94% TO CB-9A
38 LF 12" RCP @ 1.00% TO CB-9B

CB-9A, DESIGN A
RDWY STA. 20+48.54, 25.67' RT
T. CAST ELEV. 967.26
T. SLAB ELEV. 965.76
I.E 962.76

CB-9B, DESIGN A
RDWY STA. 20+48.54, 31.96' LT
T. CAST ELEV. 967.26
T. SLAB ELEV. 965.76
I.E 962.76

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.
THOMAS W. DRAKE, P.E.
DATE 4/20/07
LIC. NO. 15414

DESIGN BY: TWD
DRAWN BY: DJD
SCALE: HORIZ. 1"=30' VERT. 1"=5'
DATE: MARCH 2007

2ND AVENUE N.W. RECONSTRUCTION
S.A.P. 125-123-008
14TH STREET N.W. TO TRUNK HIGHWAY 3

City of Faribault
ENGINEERING DEPARTMENT

PLAN: D-2931
SHEET 11 OF 15