

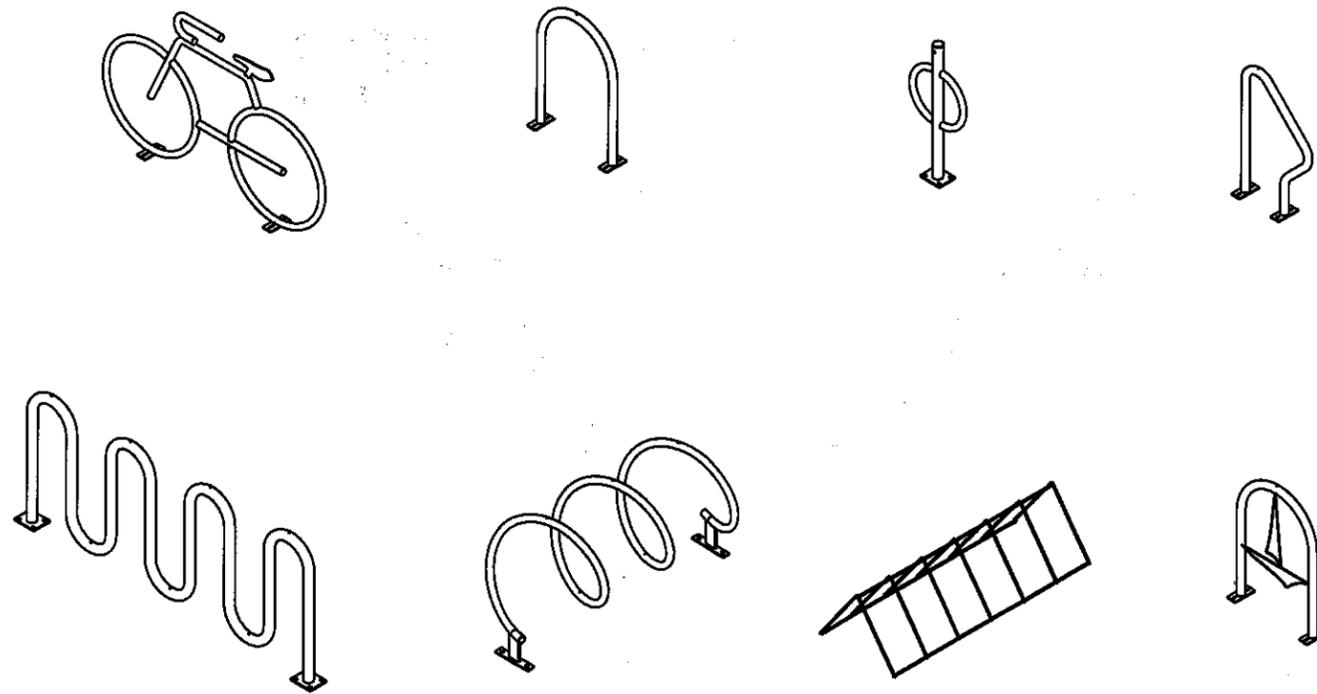
# CITY OF MINNEAPOLIS DEPARTMENT OF PUBLIC WORKS

## CONSTRUCTION PLAN FOR BIKE RACK INSTALLATIONS BIKE RACK INSTALLATION PROJECT

FEDERAL PROJECT NUMBER - NMTP2710(262)

### LEGEND

EXISTING BUSH	
EXISTING TREE	
EXISTING BUILDING	
EXISTING SURVEY CONTROL MONUMENT	
EXISTING PARKING METER	
EXISTING POWER POLE	
EXISTING STOP BOX	
EXISTING PROPERTY LINE	
EXISTING RETAINING WALL	
EXISTING FENCE	
EXISTING STORM DRAIN MANHOLE	
EXISTING CATCH BASIN	
EXISTING GRIT CHAMBER	
EXISTING LAMPHOLE	
EXISTING SANITARY MANHOLE	
EXISTING SANITARY LINE	
EXISTING STORM LINE	
EXISTING GAS GATE	
EXISTING GAS MANHOLE	
EXISTING ELECTRIC MANHOLE	
EXISTING NORTHWESTERN BELL MANHOLE	
EXISTING GAS LINE	
EXISTING EXCEL LINE	
EXISTING WATER GATE	
EXISTING FIRE HYDRANT	
EXISTING PIPE CONNECTOR (WATER)	
EXISTING WATER LINE	
EXISTING STREET LIGHT	
EXISTING WOOD LAMP POST	
EXISTING SIGN	
EXISTING HAND HOLE	
EXISTING LOOP DETECTOR	
EXISTING LIGHTING UNIT	
EXISTING LUMINAIR	
EXISTING PAD	
EXISTING PEDESTRIAN PUSH BUTTON	
EXISTING SIGNAL FACE W BGROUND	



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THIS PLAN SET CONTAINS 10 SHEETS.

	3/21/10
APPROVED: MINNEAPOLIS CITY ENGINEER OR DEPUTY CITY ENGINEER	DATE
	3/29/10
APPROVED: CITY OF MINNEAPOLIS, DIRECTOR OF WATER TREATMENT AND DISTRIBUTION SERVICES	DATE
	3/29/10
APPROVED: CITY OF MINNEAPOLIS, DIRECTOR OF TRAFFIC & PARKING SERVICES	DATE
	3/29/10
APPROVED: CITY OF MINNEAPOLIS, DIRECTOR OF FIELD SERVICES	DATE
	3/29/2010
APPROVED: CITY OF MINNEAPOLIS, DIRECTOR OF SURFACE WATER AND SEWERS	DATE
	3/29/10
APPROVED: CITY OF MINNEAPOLIS, DIRECTOR OF TRANSPORTATION PLANNING & ENGINEERING SERVICES	DATE
	5/21/10
DISTRICT STATE AID ENGINEER: REVIEWED FOR COMPLIANCE WITH FEDERAL AND STATE AID RULES / POLICY	DATE
	5/21/10
STATE AID ENGINEER: APPROVED FOR FEDERAL AID FUNDING	DATE

Date Printed =

File Name =



**SPECIFICATIONS:**  
THE 2005 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN.  
ALL TRAFFIC CONTROL DEVICES AND SIGNING SHALL CONFORM TO THE MN-MUTCD, INCLUDING FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS, MAY 2005.

**SCALES:**  
NOT TO SCALE

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT 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.

44954 Mar 23, 10

DATE: <	APPROVED BY:	SHEET NO.	REVISION:		TITLE SHEET		BIKE RACK INSTALLATION PROJECT	SHEET 1 OF 10
					DRAWN BY: GG	DATE: 01/27/10		
					CHECKED BY: DP	APPROVED: DP		SHEETS

# GENERAL NOTES

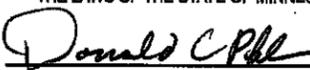
1. ALL WORK PERFORMED AND ALL MATERIALS FURNISHED SHALL BE IN CONFORMANCE WITH THE LINES, GRADES, CROSS SECTIONS, DIMENSIONS, AND MATERIAL REQUIREMENTS, INCLUDING TOLERANCE, SHOWN IN THE PLANS OR INDICATED IN THE SPECIFICATIONS.
2. THE CONTRACT INDICATES THE APPROXIMATE LOCATION OF THE KNOWN UTILITIES ON THE PROJECT.
3. IF THE CONTRACTOR DISCOVERS UTILITY PROPERTY WHOSE EXISTENCE WAS NOT KNOWN, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY OWNER AND THE ENGINEER.
4. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL UTILITY OWNERS AND TO ASCERTAIN THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES, IF ANY, BEFORE PERFORMING EXCAVATION OPERATIONS. THE CONTRACTOR SHALL CONDUCT OPERATIONS IN THE VICINITY OF EXISTING UNDERGROUND UTILITIES IN A MANNER THAT WILL PREVENT DAMAGE TO ANY OF THEM.

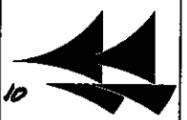
**5. STATE LAW REQUIRES ANYONE EXCAVATING OR DRILLING IN THE GROUND IN THE STATE OF MINNESOTA WITH POWER EQUIPMENT TO CALL GOPHER STATE "ONE CALL" AT 651-454-0002 FOR UTILITY LOCATIONS AT LEAST 48 HOURS BEFORE STARTING WORK.**

## UTILITIES CONTACTS

CITY OF MINNEAPOLIS			POWER/GAS	COMMUNICATION	
<b>CITY OF MINNEAPOLIS</b> TRANSPORTATION PLANNING & ENGINEERING PROJECT MANAGER 309 2ND AVE. S., ROOM 300 MINNEAPOLIS, MN 55401-2288 CONTACT: DONALD PFLAUM TEL: 612-673-2129 FAX: 612-673-2048 E-MAIL: donald.pflaum@ci.minneapolis.mn.us WEB PAGE: www.ci.minneapolis.mn.us	<b>CITY OF MINNEAPOLIS</b> SEWER DESIGN SURFACE WATER & SEWER 309 2ND AVE S, ROOM 300 MINNEAPOLIS, MN 55407-1285 CONTACT: BO SPURRIER TEL: 612-673-2455 MOBILE: 612-490-2870 E-MAIL: bo.spurrier@ci.minneapolis.mn.us WEB PAGE: www.ci.minneapolis.mn.us	<b>CITY OF MINNEAPOLIS</b> WATER DESIGN/CONSTRUCTION WATER TREATMENT & DISTRIBUTION 935 5TH AVE. SE MINNEAPOLIS, MN 55414-1205 CONTACT: BOB ERVIN TEL: 612-673-5509 E-MAIL: robert.ervin@ci.minneapolis.mn.us WEB PAGE: www.ci.minneapolis.mn.us	<b>CENTERPOINT ENERGY</b>  700 LINDEN AVE. W. MINNEAPOLIS, MN 55440-1165 CONTACT: ANDREW BALGOBIN TEL: 612-321-5425 E-MAIL: andrew.balgobin@centerpointenergy.com SUPERVISOR CONST. SVC.: STEVE SETTERBERG TEL: 612-321-5480 E-MAIL: steve.setterberg@centerpointenergy.com WEB PAGE: www.centerpointenergy.com	<b>AMERICAN FIBER SYSTEMS</b>  13746 214TH CT. NW ELK RIVER, MN 55330-4874 CONTACT: SHAWN OLSON TEL: 763-441-7952 MOBILE: 612-810-0261 FAX: 763-441-7956 E-MAIL: solson@americanfibersystems.com WEB PAGE: www.americanfibersystems.com	<b>QWEST COMMUNICATIONS</b>  2700 WAYZATA BLVD., ROOM 300 MINNEAPOLIS, MN 55405 CONTACT: SHAWN SANDBERG TEL: 612-381-5882 MOBILE: 651-207-3028 E-MAIL: shawn.sandberg@qwest.com CONSTRUCTION MANAGER: PAT PALME TEL: 612-378-0153 MOBILE: 612-250-7985 E-MAIL: ppalme@qwest.com WEB PAGE: www.qwest.com
<b>CITY OF MINNEAPOLIS</b> TRANSPORTATION PLANNING & ENGINEERING 309 2ND AVE. S., ROOM 300 MINNEAPOLIS, MN 55401-2288 CONTACT: DON ELWOOD TEL: 612-673-3822 FAX: 612-673-2048 E-MAIL: don.elwood@ci.minneapolis.mn.us WEB PAGE: www.ci.minneapolis.mn.us	<b>CITY OF MINNEAPOLIS</b> SEWER CONSTRUCTION SURFACE WATER & SEWER 1901 26TH ST. E. MINNEAPOLIS, MN 55407-1285 CONTACT: KEVIN DANEN TEL: 612-673-5827 E-MAIL: kevin.danen@ci.minneapolis.mn.us WEB PAGE: www.ci.minneapolis.mn.us		<b>XCEL ENERGY</b>  1518 CHESTNUT AVE. N., ROOM 108 MINNEAPOLIS, MN 55403-1232 CONTACT: TIM MOKE TEL: 612-630-4292 FAX: 612-630-4229 E-MAIL: timothy.g.moke@xcelenergy.com WEB PAGE: www.xcelenergy.com	<b>MCLEOD USA</b>  2896 CENTRE POINTE DR. ROSEVILLE, MN 55113-1182 CONTACT: CLARK LUNDY TEL: 952-238-4582 MOBILE: 612-885-5878 E-MAIL: clark.lundy@mcleodusa.com WEB PAGE: www.mcleodusa.com	<b>SPRINT</b>  849 EARL ST. ST. PAUL, MN 55108-3974 CONTACT: DAN HILLARD E-MAIL: dan.j.hillard@mail.sprint.com WEB PAGE: www.sprint.com
<b>CITY OF MINNEAPOLIS</b> STREET CONSTRUCTION TRANSPORTATION MAINTENANCE & REPAIR 1858 27TH ST. E. MINNEAPOLIS, MN 55407-1285 CONTACT: LARRY MATSUMOTO TEL: 612-673-6830 MOBILE: 612-919-1148 E-MAIL: larry.matsumoto@ci.minneapolis.mn.us WEB PAGE: www.ci.minneapolis.mn.us	<b>CITY OF MINNEAPOLIS</b> STREET DESIGN TRAFFIC & PARKING SERVICES 300 BORDER AVE. N. MINNEAPOLIS, MN 55405-1528 CONTACT: Steve Mosing TEL: 612-673-5748 E-MAIL: steve.mosing@ci.minneapolis.mn.us CONTACT: Doug Maday TEL: 612-673-5755 MOBILE: 612-221-5274 E-MAIL: doug.maday@ci.minneapolis.mn.us WEB PAGE: www.ci.minneapolis.mn.us		<b>STEAM</b> NRG ENERGY CENTER 2800 IDS CENTER MINNEAPOLIS, MN 55402-1232 CONTACT: TIM JOHNSTON TEL: 612-436-4104 MOBILE: 612-325-1539 FAX: 612-349-6067 24HR. EMERGENCY PHONE: 612-349-6118 E-MAIL: tim.johnston@nrgenergy.com	<b>MCI</b>  7383 COUNTY RD. 140 COLOGNE, MN 55322-9181 CONTACT: SCOTT MCWILLIAMS MOBILE: 612-919-1845 E-MAIL: michael.s.mcwilliams@mci.com WEB PAGE: www.mci.com	<b>TIME WARNER CABLE</b>  10210 CROSSTOWN CIR. EDEN PRAIRIE, MN 55344-3377 CONTACT: JEFFERY SIMMONS TEL: 612-287-3607 MOBILE: 612-328-4843 E-MAIL: jeffery.simmons@twcable.com WEB PAGE: www.timewarnercable.com

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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.  
  
 REG. NO. 44954 DATE MAR 23, 10



**MINNEAPOLIS  
DEPARTMENT OF  
PUBLIC WORKS**

UTILITY CONTACTS	
DRAWN: GG	DATE: 01/27/10
CHECKED: DP	DATE: 01/29/10
APPROVED: DP	DATE: 01/29/10

**BIKE RACK INSTALLATION PROJECT**  
  
 ENG. - SP 141-091-027  
 CONST. - SP 141-091-001  
 NMTP 2709

**SHEET**  
 2 OF 10  
**SHEETS**

LOCATION*	NOTES	RACK STYLE	QTY	BIKES
1420 Hennepin Location 1420 Hennepin Ave.	Below skyway, against building, north side	4e	20	40
1420 Parking Ramp 1420 Hennepin Ave.	- GV-FS	4e	10	20
224 Building 224 University Ave. NE	Parallel to street at curbside GV-SM	3	2	4
3800 Bryant Operations Ctr. 3800 Bryant Ave.	Rail Mounted, 3 (B-3) in front, 5 (B-5) in back - GV-FS	4c 4e	3 5	6 10
Alexanders Import Auto Repair 2904 E. 35th St.	Owner to install new concrete pad to right of main entrance - GV-SM	4	1	2
Alt Bikes 3013 Lyndale Ave. So.	Parallel to street at curbside P-(Red_3003)-SM	3	3	6
Anderson Elem. School 2727 10th Ave. So.	8-Rail Mounted, galvanized, verify location GV-FS 12-Surface Mounted Vertical racks - P-SM	2d 9	8 12	16 12
Anwatin Middle School 256 Upton Ave. So.	Rail Mounted, Stainless Steel Remove old racks (ST4-GV-4e) - FS	4e	10	20
Augsburg - Anderson West 2016 S. 8th St.	(plus area for moped/motorcycle parking) RM - GV-FS	4d	4	16
Augsburg Community Garden/Lot G 610 21st Ave. So.	Rail mounted - GV-FS	4e	5	10
Augsburg - Lindell Library 630 22nd Ave. So.	Rail Mounted, next to sidewalk at entrance - GV-FS	4f	6	12
Augsburg - Mortensen North 801 21st Ave. So.	Rail mounted, 2 sets of 5 - GV-FS	4e	10	20
Augsburg - Mortensen South 801 21st Ave. S.	Rail mounted - GV-FS (plus area for moped/motorcycle parking)	4e	5	10
Augsburg - Oren Gateway 610 22nd Ave. So.	Rail mounted - GV-FS	4d	4	8
Augsburg - Science West 707 21st Ave. So.	Rail mounted - GV-FS	4e	5	10
Augsburg - Urness North 800 22nd Ave. So.	Rail mounted, 2 sets of 5 - GV-FS	4e	10	20
Bancroft School 1315 East 38th St.	Replace old racks in alcove in back. Asphalt anchor - GV-FS	4f	24	48
Barton Open School 4237 Colfax Ave. So.	Rail mounted, galvanized - GV-FS	2e	20	40
Bibelot University Ave. SE at Hennepin Ave.	Parallel to street at curbside - GV-SM	3	2	4
BLO Liquor Store 2201 W. Broadway Ave.	- P-SM	1	1	4
Bobby Beads 2831 Hennepin Ave. So.	O.K. to install after grant - GV-SM	3	2	6
Bottineau Park Loc. 1 2000 2nd St. NE	PVC by skatepark - RM-PVC-FS	2f	6	12
Bottineau Park Loc. 2 2000 2nd St. NE	Blue, replace existing - P-SM	3	5	10
Brueggers 228 E. Hennepin Ave.	Parallel to street at curbside - GV-SM	3	2	4

\*Exact Location to be Determined by Engineer.

LOCATION*	NOTES	RACK STYLE	QTY	BIKES
Buffalo Exchange 2727 Lyndale Ave. So.	Special Free Standing - 30" Galvanized feet - GV-FS	5	1	6
Bulldog NE 4014 E. Hennepin Ave.	Parallel to street at curbside - GV-SM	2	2	4
Chiro Mairins Table 4th St. NE and 1st Ave. NE	Parallel to street at curbside - GV-SM	3	3	6
Choice Properties Plus 3500 Nicollet Ave. So.	At end of walk in front of 3rd business from left. Parallel to Street - P-SM	3	3	6
Cinema Revolution/Little Tijuana 23 E. 26th Street	2 in front of Cinema Rev., 45° angle - GV-SM 2 in front of Little Tijuana, 45° angle - GV-SM	2	4	8
Clean Water Action 308 E. Hennepin Ave.	Parallel to street at curbside - GV-SM	3	2	4
Cleveland Park (1) 33rd and Queen Ave. No.	Blue, stainless anchors, placement to be determined. - P-SM	3	5	10
Cleveland Park (2) 33rd and Queen Ave. So.	Blue, stainless anchors, place by main entrance - P-SM	3	5	10
Corcoran Park 3334 20th Ave. So.	Rail Mounted, on grass near tree at entrance - GV-FS	2d	4	8
Corner Table 4257 Nicollet Ave.	Curved Rack - P-SM Surface Mounted	8j	3	6
Creekview Park 5001 Humboldt Ave. No.	Rail Mounted, Place by grass in front and one next to skate park - GV-FS	2e	10	20
Curran 4201 Nicollet Ave.	Curved Rack - P-SM	8j	3	6
CVS Pharmacy 2426 W. Broadway	- P-SM	1	1	4
Dabble 28th, Johnson Bus. Grp. 2854 Johnson NE	Perpendicular to street, centered between exist. racks, (run opposite exist. racks) - GV-SM	5	1	8
Denny Kemp Salon 6th St. NE and Central Ave.	Parallel to street at curbside - GV-SM	3	3	6
East Phillips Park 2307 17th Ave. So.	Under Construction - P-SM	4e	5	10
Fairview Park 29th and Lyndale Ave. No.	- GV-SM	1	1	4
Fat Lorenzo's 5600 Cedar Ave.	Rail Mounted - GV-FS	2	3	6
Folwell Park 1615 Dowling Ave. N.	Stainless anchors, replace existing racks - GV-SM	3	10	20
Freewheel Bike 1812 6th St.	Black Epoxy, Rail mounted - 4 units - P-FS	4	4	8

\*Exact Location to be Determined by Engineer.

KEY
FS = Free Standing (rail mounted, generally)
GV = Galvanized
P = Painted
PVC = Rubber Dipped
RM = Rail Mounted
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ST = Stainless Steel

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SIGNED: *Donald P. [Signature]* LIC. NO. 44954 DATE: April 16, 2010



**MINNEAPOLIS**  
DEPARTMENT OF  
**PUBLIC WORKS**

LOCATIONS AND NOTES

DRAWN BY: GG

DATE: 01/27/10

CHECKED BY: DP

APPROVED: DP

BIKE RACK INSTALLATION PROJECT

ENG. - SP 141-091-027  
CONST. - SP 141-091-001  
NMTP 2709

SHEET

3 OF 10

SHEETS

LOCATION*	NOTES	RACK STYLE	QTY	BIKES
Fun Sisters 4253 Nicollet Ave.	Curved Rack - P-SM surface mounted	8j	3	6
Gee Teez 4505 Nicollet Ave	Curved rack - P-SM surface mounted	8j	2	4
Green Central School 3416 4th Ave. So.	Rail mounted, galvanized - GV-FS	2e	15	30
Hall Park 18th and Aldrich Ave. No.	Blue, stainless anchors, place where they would look best - P-SM	3	5	10
Heavenly Soles/Hair Police 615 W. Lake St.	Parallel to street at curbside - GV-SM	3	4	8
Herkimer 2922 Lyndale Ave. So.	Parallel to street at curbside GV-SM	3	3	6
Hiawatha Cyclery 4301 E. 54th Street	One orange, two GV-SM	1	3	12
Hiawatha Park 4305 E 42nd St.	Between School and Park, Must cut out exist. rack, see paint dots - GV-SM	1	5	20
Hub Bike Co-op 301 Cedar Ave. So.	In plaza north of bike shop Style 5 - GV-SM	5	2	9
Keewaydin Campus, Lk. Nokomis School 5209 30th Ave. So.	9-Rail mounted, galvanized, verify location - GV-FS	4	9	18
Kent Confield DDS 3152 Minnehaha Ave. So.	Rail Mounted, 3 units, side of building, near rear entrance - GV-FS	4c	3	6
Kenwood Elem. School 2013 Penn Ave. So.	Rail Mounted, 3 sets of 6, In fenced area on south side of building - GV-FS	4f	18	36
Key North 515 1st Ave. NE	Parallel to street at curbside - GV-SM	3	2	4
Kingfield Farmers Market 4310 Nicollet Ave	Custom Fruit racks, Rail Mounted - 8 units - P-FS	8b	8	16
Kramarczyks 215 E. Hennepin Ave.	Parallel to street at curbside GV-SM	3	2	4
Lake Harriet Comm. Upper School 4912 Vincent Ave. So.	Bike Shelter	10	1	6
Lake Harriet Yacht Club W. 42nd St. & Lake Harriet P'way	Custom, Sail boats - P-SM	8g	5	10
Longfellow Park 3435 36th Ave. So.	Verify location w/Nickey - GV-FS	2e	5	10
Look and See Hennepin Ave. and 5th St. NE	Parallel to street at curbside - GV-SM	3	2	4
Lunds on University 25 University Ave. SE	Parallel to Street at curbside - GV-SM	3	6	12
Luxton Park 112 Williams Ave. SE	Custom, fish design Alternate Style 3, 5 in Red - P-SM	8L	4	16
Lyndale Elem. School 312 W. 34th St.	Rail mounted, asphalt anchor - GV-FS	2e	10	20
Lyndale School 34th St. and Grand Ave.	On side of fence, align with end of fence - GV-FS	4	4	8
MacPhail Center 501 2nd Ave. So.	Custom-bag, note, guitar, biker, biker, note, guitar. (8i, 8d, 8e, 8k, 8k, 8d, 8e) render & approval prior to inst.	8	7	18

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LOCATION*	NOTES	RACK STYLE	QTY	BIKES
Macs Industrial Bar 312 Central Ave. SE	Parallel to street at curbside - GV-SM	3	3	6
McRae Park E. 47th St., off Chicago	Sports, baseball, basketball, football, soccer, by pool (locate water pipe) - P-SM	8c	4	8
Metro Transit (1) 560 6th Ave. No.	Blue - RAL_5005 - P-FS	1	1	4
Metro Transit (2) 560 6th Ave. No.	GV-SM	5	1	8
Metro Transit (3) 560 6th Ave. No.	GV-SM	4	1	8
Minnesota Kali Group 4532 Chicago Ave. So.	In rear of building, on elevated slab Rail Mounted, 3 units - GV-FS	4d	4	8
Minuteman Press Central 527 Second Ave. SE	Rail Mounted - 3 unit, free standing on pavers - GV-FS	4c	3	6
Morris Park 5531 39th Ave. So.	Rail Mounted, Place next to sidewalk near main entrance - PVC-FS	4e	5	10
Minneapolis Community & Tech. College Wheelok under Skyway	Wheelock under skyway by inclined area - GV-FS	4e	10	20
Minneapolis Community & Tech. College Kopp Hall Courtyard	Kopp Hall Courtyard by trees - GV-FS	4e	5	10
Minneapolis Community & Tech. College Harmon Place Ped Plaza	Along north side of ped plaza 3 sets of 5 - GV-FS	4e	15	30
Minneapolis Community & Tech. College 1415 Harmon	Technical building along Harmon by motorcycle parking, 2 sets of 5 - GV-FS	4e	10	20
Minneapolis Community & Tech. College 1424 Yale Place	Whitney Fine Arts, south of entrance, 3 sets of 5 - GV-FS	4e	15	30
Minneapolis Community & Tech. College 1423 Harmon Place	Helland Center by ped plaza - GV-FS	4d	4	8
Minneapolis Community & Tech. College 1403 Harmon Place	North side of Wells Family College - GV-FS	4e	5	10
Minneapolis Community & Tech. College 1300 Harmon Place	New Health Sciences Building 5 sets of 5 - GV-FS	4e	25	50
Minneapolis Community & Tech. College 1415 Technical	Courtyard by outcrop, replace existing - GV-FS	4e	5	10
MPRB HQ 2117 West River Road	Custom racks. concerned about theft of racks by scrappers, location TBD - P-SM	8	4	16
NE Middle School 2955 NE Hayes St.	Replaces existing rack along Hayes St. - GV-FS	4e, 4f	11	22
North Commons Water Park 1701 Golden Valley Road	Blue, stainless anchors, place by main entrance - P-SM	3	5	10

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SIGNED: *[Signature]* LIC. NO. 44954 DATE: April 16, 2010



**MINNEAPOLIS**  
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**PUBLIC WORKS**

LOCATIONS AND NOTES		BIKE RACK INSTALLATION PROJECT	SHEET
DRAWN BY: GG	DATE: 01/27/10	ENG. - SP 141-091-027 CONST. - SP 141-091-001 NMTP 2709	4 OF 10
CHECKED BY: DP	APPROVED: DP		SHEETS

LOCATION*	NOTES	RACK STYLE	QTY	BIKES
Olsen Advertising 1625 Hennepin Ave.	Red - P-SM	3	7	14
Open Book Location 1 1011 Washington Ave. So.	Custom book style racks, possibly with laser cut medallions - P-SM	8	2	4
Open Book Location 2 1011 Washington Ave. So.	Custom book style racks, possibly with laser cut medallions - P-SM	8	2	4
Pacifier/Bone Adventure 310 E. Hennepin Ave.	Parallel to street at curbside - GV-SM	3	2	4
Painter Park Location 1 34th St. & Lyndale Ave. So.	2 Running with direction of sidewalk, 1 of 2 locations (ST3-P-SM)	3	2	4
Painter Park Minneapolis Loc 2 34th St. & Lyndale Ave. So.	In corner on concrete pad, bikes facing into sand playground area - P-SM	4	3	6
Panera 1 233 E. Hennepin Ave.	Parallel to street at curbside GV-SM	3	2	4
Panera 2 233 E. Hennepin Ave.	Parallel to street at curbside GV-SM	3	2	4
Papa Johns 333 E Hennepin Ave.	Parallel to street at curbside - GV-SM	3	2	4
Pedal Studio 21 5th Street NE	Parallel to street at curbside - GV-SM	3	2	4
Penn Cycle 710 W. Lake St.		1	4	12
Popular Front 6th St. NE and 1st Ave. NE	Parallel to street at curbside - GV-SM	3	2	4
Powderhorn Park 3400 15th Ave. So.	Custom, Fish design, blue, spaced within windows under overhang (ST3-FS-blue Alt.)	8	4	8
Prairie Stone Pharmacy 55 University Ave. SE	Parallel to street at curbside - GV-SM	3	3	6
Pratt School 66 Malcolm Ave. SE	Rail mounted, galvanized - GV-FS	2d 2e	4 5	8 10
Punch Pizza 1 210 E. Hennepin Ave.	Parallel to street at curbside - GV-SM	3	2	4
Red Stag Supper Club 509 1st Ave. NE	Parallel to street at curbside - GV-SM	3	3	6
Resnick DDS 2503 Lowry Ave. N.	- P-SM	1	1	4
Roosevelt High School 4029 28th Ave. So.	(School might be closed) - GV-FS	4e	30	60
Sample Room Loc. 1 2124 Marshall St.	Black powder-coated, surface mount - P-SM	3	3	6
Seward Elem. School (1) 2309 28th Ave. So.	Rail Mounted, mixed racks - two ST1-P with 4 ST4-GV-FS	1	2	4
Seward Elem. School (2) 2309 28th Ave. So.	Rail Mounted, mixed racks - two ST1-P with 4 ST4-GV-FS	4	4	8
Sheraton Mpls Midtown 2901 Chicago Ave. So.	Upper deck from Greenway near railing bikes parallel with Greenway & railing - GV-SM	3	2	4
Smitten Kitten 3010 Lyndale Ave. So.	Parallel to Street at curbside - GV-SM	3	2	4
Splice Here 119 N 2nd St.	Close to window on left side of main entrance -P(Blue)-SM	3	3	6

\*Exact Location to be Determined by Engineer.

LOCATION*	NOTES	RACK STYLE	QTY	BIKES
Spot 4th St. NE and Hennepin Ave.	Parallel to street at curbside - GV-SM	3	4	8
St. Annes Senior Apts 2323 26th Ave. No.	- P-SM	1	1	4
St Joan of Arc Church 46th St. & 35W	Galvanized, surface mount - GV-SM	6	2	12
Stonewood Properties Loc. 1 Lake & Nicollet Aves.	Rack to go in corner parking stall - styles 1 & 4 No anchors - 5 on channels - GV-FS	4	5	10
Stonewood Properties Loc. 2 Lake & Nicollet Aves.	opposite end of mall from Office Max, around corner on sidewalk, parallel to curb - GV-SM	1	2	8
Super America 3453 Nicollet Ave. So.	Rail Mounted, in rock - GV-FS, 5 units area at street corner of lot	4e	5	10
Surdyks (1) 303 E Hennepin Ave.	Parallel to street at curbside GV-SM	3	4	8
Surdyks (2) 303 E Hennepin Ave.	Parallel to street at curbside - GV-SM	3	2	4
Taraccino Coffee 224 E. Hennepin Ave.	Parallel to street at curbside - GV-SM	3	1	2
Textile Center 3000 University Ave. SE	P-SM (Orange RAL_6018)	1	3	12
Times 201 E. Hennepin Ave.	Parallel to street at curbside GV-SM	3	2	4
Tonal Balance Health Center 3940 Minnehaha Ave.	Galvanized - GV-SM	5	1	2
Tooties 2706 Lowry Ave. N.	Surface mount, powdercoat	1	1	4
Town Hall Brewery 1430 Washington Ave. So.	Galvanized, surface mount between planters w/City and Holiday Inn approval - GV-SM	3	6	12
U of M Elmer Anderson Library 222 21st Ave.	Replace existing rack, Forest Service - GV-FS	4	5	10
U of M Gopher Stadium Huron Ave.	- GV-FS	7	46	644
U of M Lot C66 Como Ave.	Rail Mounted, 2 sets of 6 on concrete pad by bus stop island - GV-FS	4f	12	24
U of M Rarig Center 330 19th Street	On NE side, next to existing rack - GV-FS	4g	7	14
U of M Wilson Library - South 309 19th Ave. So.	- GV-FS	4g	14	28
U of M Wilson Library Plaza East 309 19th Ave. So.	Replace ST2 Wilson Courtyard East side, lines of 17 st4 - GV-FS	4g	49	98

\*Exact Location to be Determined by Engineer.

KEY
FS = Free Standing (rail mounted, generally)
GV = Galvanized
P = Painted
PVC = Rubber Dipped
RM = Rail Mounted
SM = Surface Mount (foot)
ST = Stainless Steel

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 SIGNED: *Donald P. [Signature]* LIC. NO. 44854 DATE: April 16, 2010



**MINNEAPOLIS**  
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LOCATIONS AND NOTES		BIKE RACK INSTALLATION PROJECT	SHEET
DRAWN BY: GG	DATE: 01/27/10	ENG. - SP 141-091-027 CONST. - SP 141-091-001 NMTF 2709	5 OF 10
CHECKED BY: DP	APPROVED: DP		SHEETS



**SUMMARY OF ESTIMATED QUANTITIES**

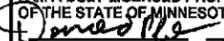
LINE NO.	ITEM NO.	ITEM DESCRIPTION	STYLE NUMBER	UNIT	QUANTITY
1	2540.602	BICYCLE RACK	1	EACH	28
2	2540.602	BICYCLE RACK	2	EACH	96
3	2540.602	BICYCLE RACK	3	EACH	149
4	2540.602	BICYCLE RACK	4	EACH	682
5	2540.602	BICYCLE RACK	5	EACH	8
6	2540.602	BICYCLE RACK	6	EACH	3
7	2540.602	BICYCLE RACK	7	EACH	46
8	2540.602	BICYCLE RACK	8**	EACH	51
9	2540.602	BICYCLE RACK	9	EACH	12
10	2540.602	BICYCLE SHELTER	10	EACH	1
11	2104.509	BIKE RACK REMOVAL	-	EACH	9

\*\*LOGOS AND/OR CUSTOM RACKS TO BE DETERMINED BY LOCATION, PER NOTES ON THE LOCATION SHEETS.

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SIGNED:  LIC. NO. 44954 DATE: April 16, 2010



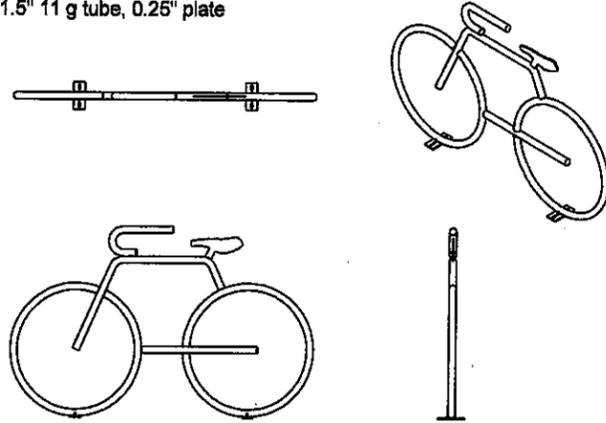
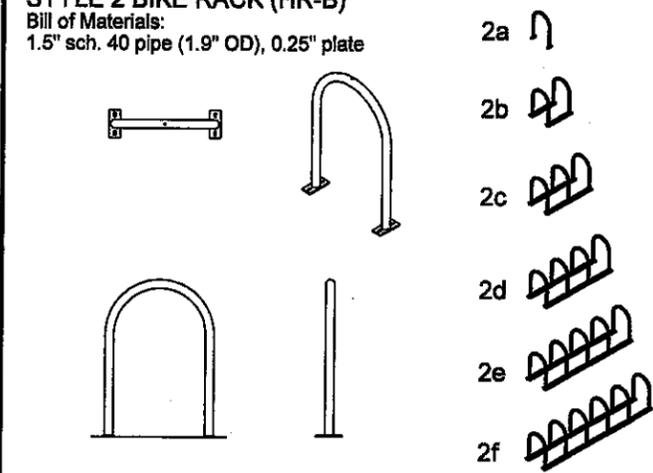
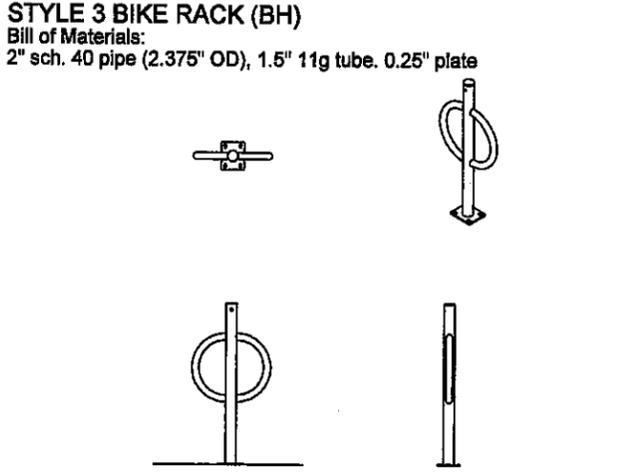
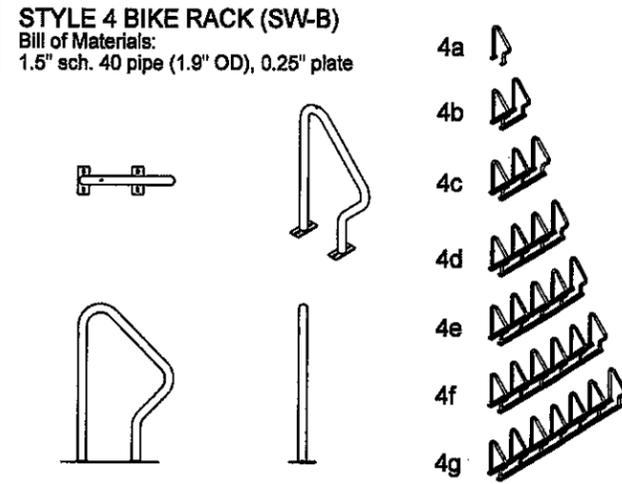
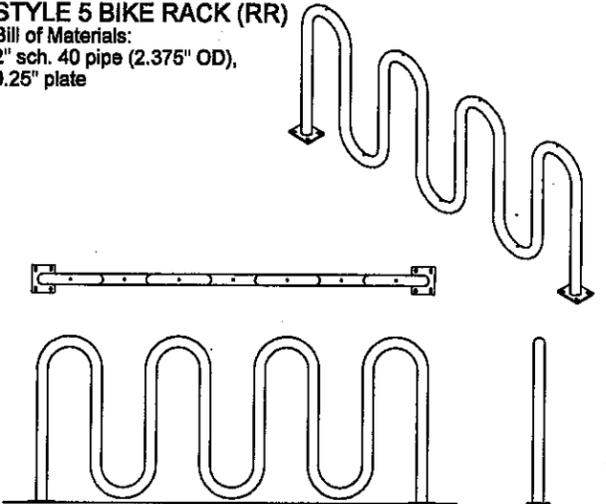
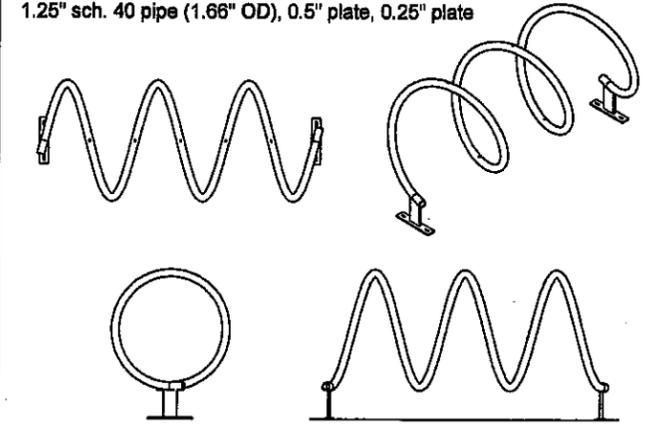
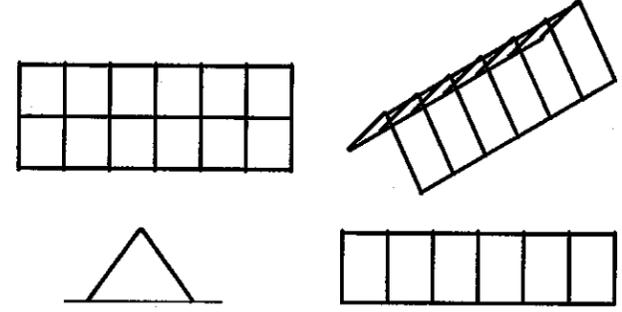
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ESTIMATED QUANTITIES	
DRAWN BY: GG	DATE: 01/27/10
CHECKED BY: DP	APPROVED: DP

BIKE RACK INSTALLATION PROJECT
ENG. - SP 141-091-027 CONST. - SP 141-091-001 NMTP 2709

SHEET  
7 OF 10  
SHEETS

# BIKE RACK DETAILS

<p><b>STYLE 1 BIKE RACK (BB)</b> Bill of Materials: 1.5" 11 g tube, 0.25" plate</p> 	<p><b>STYLE 2 BIKE RACK (HR-B)</b> Bill of Materials: 1.5" sch. 40 pipe (1.9" OD), 0.25" plate</p> 	<p><b>STYLE 3 BIKE RACK (BH)</b> Bill of Materials: 2" sch. 40 pipe (2.375" OD), 1.5" 11g tube, 0.25" plate</p> 	<p><b>STYLE 4 BIKE RACK (SW-B)</b> Bill of Materials: 1.5" sch. 40 pipe (1.9" OD), 0.25" plate</p> 
<p><b>STYLE 5 BIKE RACK (RR)</b> Bill of Materials: 2" sch. 40 pipe (2.375" OD), 0.25" plate</p> 	<p><b>STYLE 6 BIKE RACK (HX)</b> Bill of Materials: 1.25" sch. 40 pipe (1.66" OD), 0.5" plate, 0.25" plate</p> 	<p><b>STYLE 7 BIKE RACK (EVENT)</b> Bill of Materials: 0.75" 12g tube</p> 	

**NOTES:**

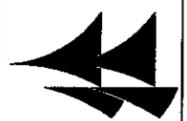
① Exact locations to be determined by engineer.

File Name = 6727-Headon Detail.dgn

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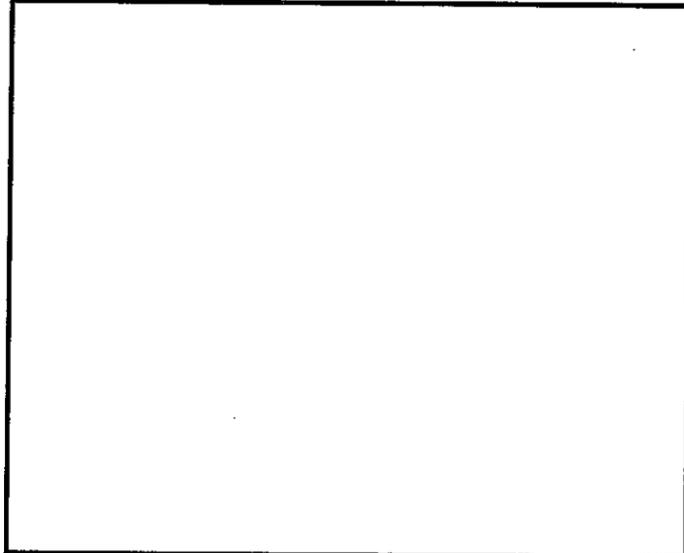


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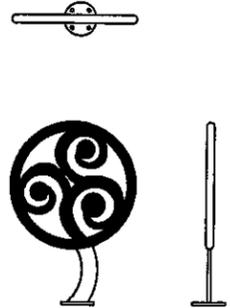
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DRAWN BY: GG	DATE: 01/27/10
CHECKED BY: DP	APPROVED: DP

BIKE RACK INSTALLATION PROJECT	
ENG. - SP 141-091-027 CONST. - SP 141-091-001 NMTP 2709	

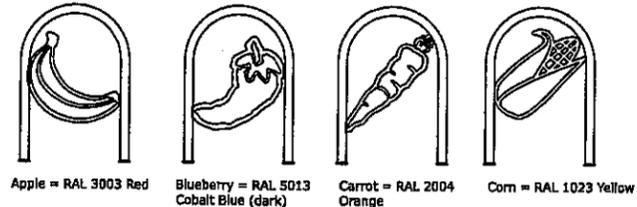
SHEET  
8 OF 10  
SHEETS



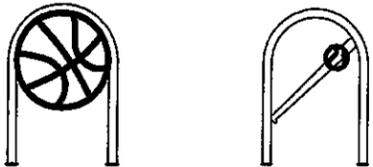
**STYLE 8a SEWARD RACK**  
 Bill of Materials:  
 1.5" 11 g tube, 0.5" plate, 0.25" plate



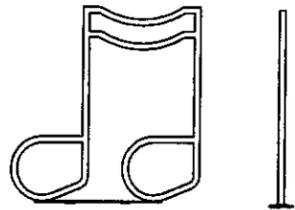
**STYLE 8b FRUIT RACKS**  
 Bill of Materials:  
 1.5" sch. 40 pipe (1.9" OD), 0.25" plate



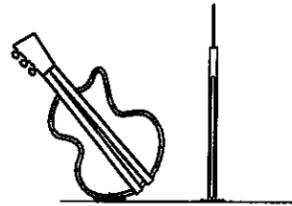
**STYLE 8c SPORT HOOPS**  
 Bill of Materials:  
 1.5" sch. 40 pipe (1.9" OD), 0.25" plate



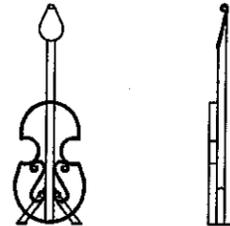
**STYLE 8d MUSICAL NOTES**  
 Bill of Materials:  
 1.5" 11g tube, 0.5" plate, 0.25" plate



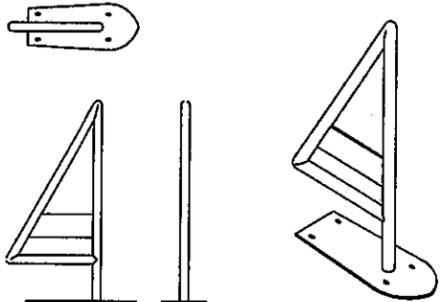
**STYLE 8e GUITAR RACK**  
 Bill of Materials:  
 1.5" sch. 40 pipe (1.9" OD), 0.75" round bar, 0.25" plate



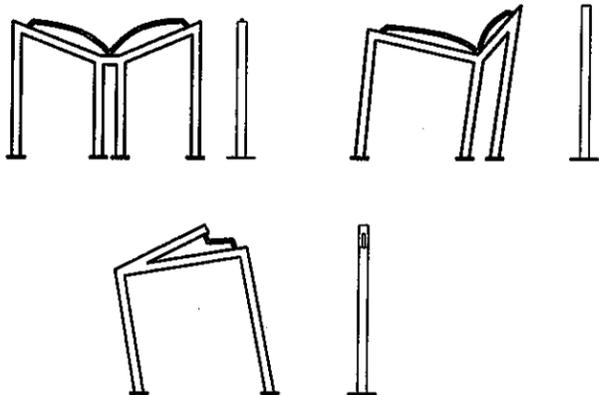
**STYLE 8f CELLO RACK**  
 Bill of Materials:  
 2" 11g tube, 0.1875 x 2" flat bar, 0.25" plate



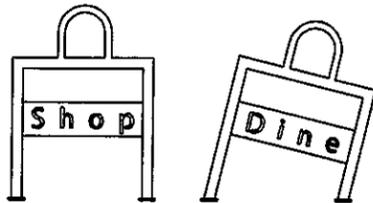
**STYLE 8g SAILBOAT RACK**  
 Bill of Materials:  
 1.5" sch. 40 pipe (1.9" OD), 0.25" plate



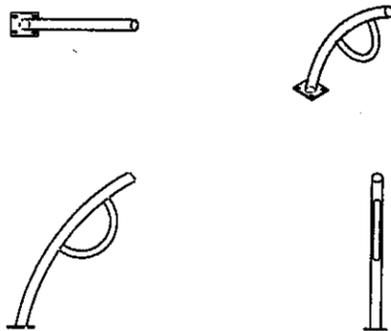
**STYLE 8h BOOK RACKS**  
 Bill of Materials:  
 1.5" sch. 40 pipe (1.9" OD), 0.625" round bar, 0.25" plate



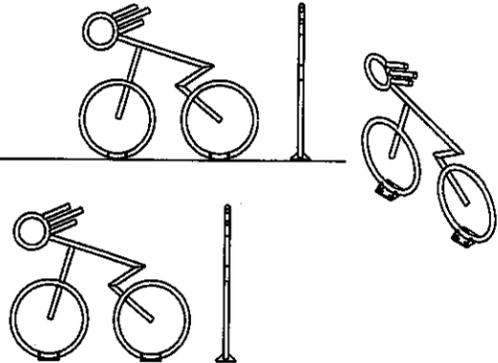
**STYLE 8i SHOPPING BAG RACKS**  
 Bill of Materials:  
 1.5" 11g tube, 1" 11g tube, 0.25" plate



**STYLE 8j CURVED RACK**  
 Bill of Materials:  
 2" sch. 40 pipe (2.375 OD), 1.5" 11g tube, 0.25" plate



**STYLE 8k BIKE RIDER RACKS**  
 Bill of Materials:  
 1.5" 11g tube, 0.25" plate



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 DATE: Mar 23, 10



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**CUSTOM BIKE RACK DETAILS**

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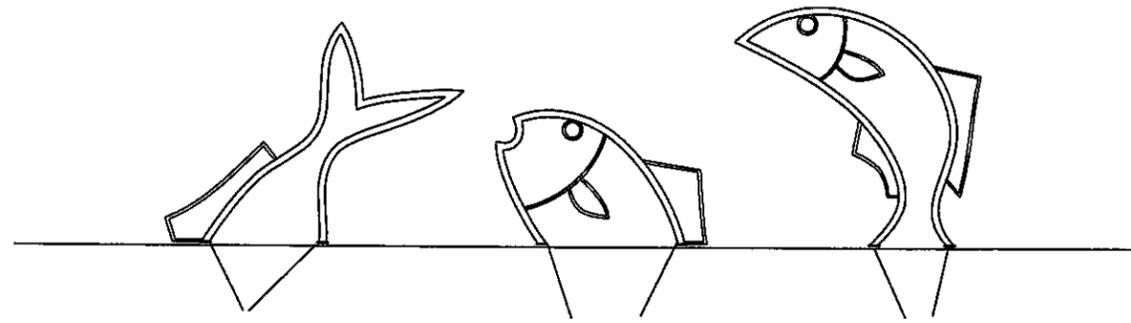
**BIKE RACK INSTALLATION PROJECT**

ENG. - SP 141-091-027  
 CONST. - SP 141-091-001  
 NMTP 2709

SHEET  
 9 OF 10  
 SHEETS

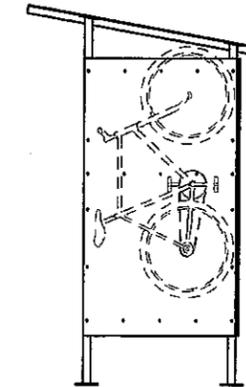
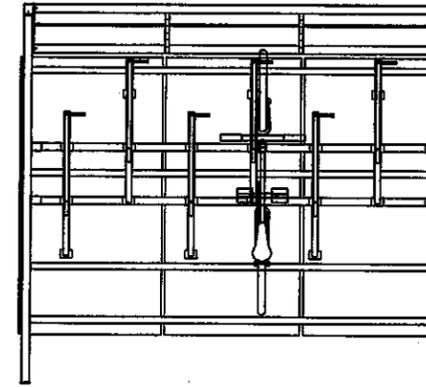
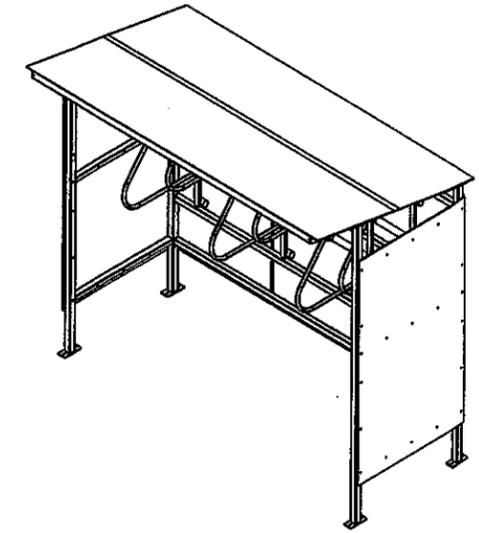
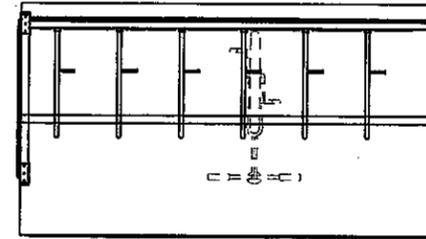
**STYLE 8L JUMPING FISH RACKS**

Bill of Materials:  
1.5" 11g tube, 0.75" bar, 0.25" plate



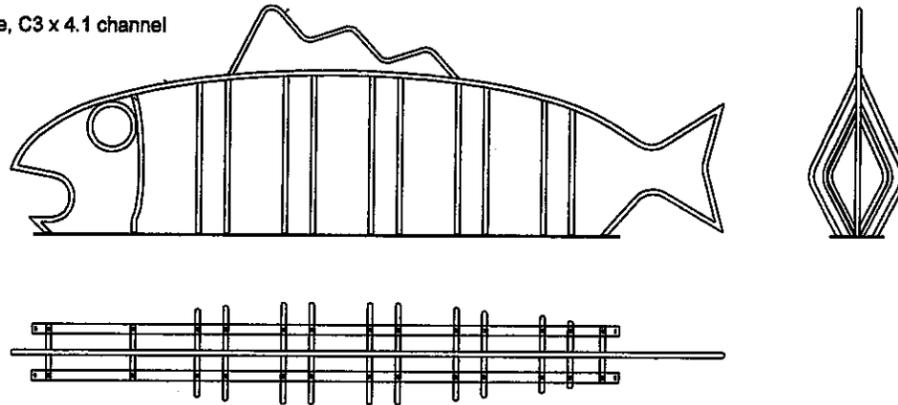
**STYLE 10  
VERTICAL, SPACE SAVING,  
METAL AND POLYCARBONATE  
BIKE SHELTER**

Bill of Materials:  
Uprights: 2" x 3/16" square tube  
Feet: 1/4" plate  
Horizontal Members: 12g formed sheet  
Roof Panels: 16g galvanized sheet  
Roof Frame: 2" x 1" 12g tube  
Side Panels: 1/4" polycarbonate  
Space Saver Locking Bar: 1" 10g tube



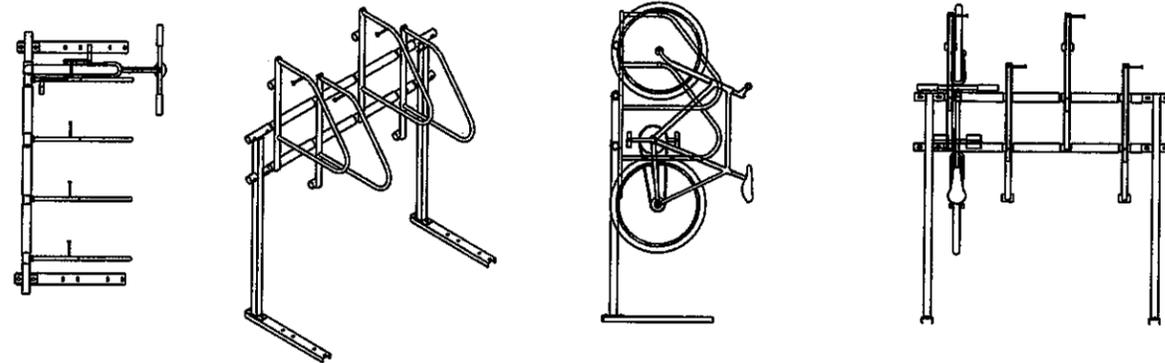
**STYLE 8m BIG FISH RACK**

Bill of Materials:  
1.5" 11g tube, 0.25" plate, C3 x 4.1 channel



**STYLE 9 VERTICAL RACK**

Bill of Materials:  
Uprights: 2" 11g sq. tube, 2" 11g tube, 0.25" plate, C3 x 4.1 channel  
Cross Bars: 1.25" sch. 40 pipe  
Arms: 1.5" x 0.75" 14g tube, 1" 10g tube, 0.5" bar, 2" 11g tube



\$Times

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**CUSTOM BIKE RACK DETAILS**

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