MINNESOTA DEPARTMENT OF TRANSPORTATION
CITY OF ROCHESTER

CONSTRUCTION PLAN FOR GRADING; AGGREGATE BASE; CONCRETE SURFACING; CURB & GUTTER; SIDEWALK; STORM SEWER; WATER MAIN; SIGNALS; LIGHTING; TRANSIT SHELTERS

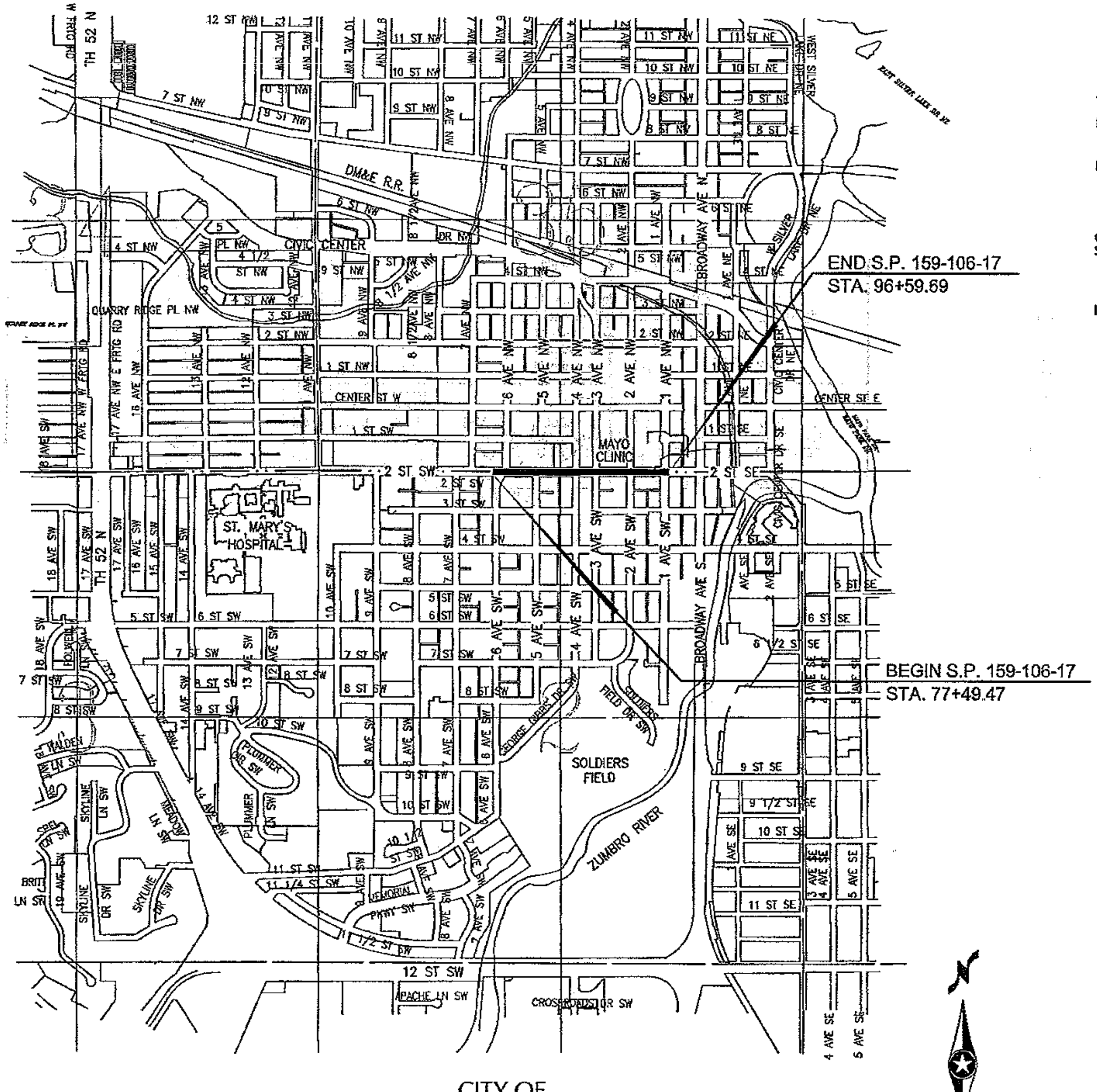
LOCATED ON 2ND STREET S.W. FROM 6TH AVENUE S.W. TO 1ST AVENUE S.W.

STATE PROJ. NO. S.P. 159-106-17

GROSS LENGTH	1910.22	FEET	0.362	MILES
BRIDGES-LENGTH		FEET		MILES
EXCEPTIONS-LENGTH		FEET		MILES
NET LENGTH	1910.22	FEET	0.362	MILES

BEGINNING AT A POINT 1829 FEET EAST OF THE S.W. CORNER OF SECTION 35, TOWNSHIP 107 N, RANGE 14 W AND PROCEEDING TO A POINT 3739 FEET EAST OF THE S.W. CORNER OF SECTION 35, TOWNSHIP 107 N, RANGE 14 W, OLMSTED COUNTY, MINNESOTA.

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-02, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."



CITY OF ROCHESTER MINNESOTA

PROJECT LOCATION

COUNTY : OLMSTED

DISTRICT : 6

SCALES

PLAN:	20 FEET	
PROFILE:	20 FEET	HORIZ.
	4 FEET	VERT.
CROSS SECTIONS:	10 FEET	HORIZ.
	5 FEET	VERT.
INDEX MAP:	800 FEET	

DESIGN DESIGNATION – 2ND ST. S.W. (URBAN)

ADT (Current Year) = 15,940 (2009)
ADT (Future Year) = 21,460 (2029)
Traffic Projection Factor 1.5%
HCADT (Heavy Commercial) = 1266 (5.9%)
20 Year ESAL 4,315,000
Functional Classification – Arterial
Ultimate 10 TON DESIGN
R = 10
Urban Design Speed 30 MPH Based on Stopping Sight Distance based on 3.5' Height of Eye and 2.0' Height of Object
Number of Traffic Lanes: 4
Number of Parking Lanes: 2 (URBAN)

MN PROJ. NO. STP 5509 (240)

GOVERNING SPECIFICATIONS

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

INDEX

THIS PLAN CONTAINS 147 SHEETS

LANDSCAPE ARCHITECT:
I HEREBY CERTIFY THAT SHEETS 63 THROUGH 75 OF THIS PLAN, SPECIFICATION, OR REPORT WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.
SIGNATURE: CRAIG M. RUHLAND
YAGGY COLBY ASSOCIATES
DATE: 4/3/09 LICENSE NUMBER 45845

ARCHITECT:
I HEREBY CERTIFY THAT SHEETS 121 THROUGH 126 OF THIS PLAN, SPECIFICATION, OR REPORT WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.
SIGNATURE: JOSE L. RIVAS
YAGGY COLBY ASSOCIATES
DATE: 4/3/09 LICENSE NUMBER 22910

STRUCTURAL ENGINEER:
I HEREBY CERTIFY THAT SHEETS 127 THROUGH 131 OF THIS PLAN, SPECIFICATION, OR REPORT WERE 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.
SIGNATURE: BENJAMIN A. WOLF
YAGGY COLBY ASSOCIATES
DATE: 4/3/09 LICENSE NUMBER 40807

ELECTRICAL ENGINEER:
I HEREBY CERTIFY THAT SHEETS 82 THROUGH 83 AND SHEETS 132 THROUGH 133 OF 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.
SIGNATURE: KENNETH GRANLE
HDR INC.
DATE: 4-3-2009 LICENSE NUMBER 13965

DESIGN ENGINEER:
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.
SIGNATURE: DILLON S. DOMBROVSKI
YAGGY COLBY ASSOCIATES
DATE: 4/3/09 LICENSE NUMBER 45503

TRAFFIC SIGNAL ENGINEER:
I HEREBY CERTIFY THAT SHEETS 76 THROUGH 81 AND SHEETS 84 THROUGH 120 OF THESE SIGNAL PLANS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT THESE PLANS CONFORM TO THE MMUTCD (EXCEPT WHERE A VARIANCE HAS BEEN GRANTED) AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
SIGNATURE: CHAD W. SCHUMAN
YAGGY COLBY ASSOCIATES
DATE: 4/3/09 LICENSE NUMBER 26865

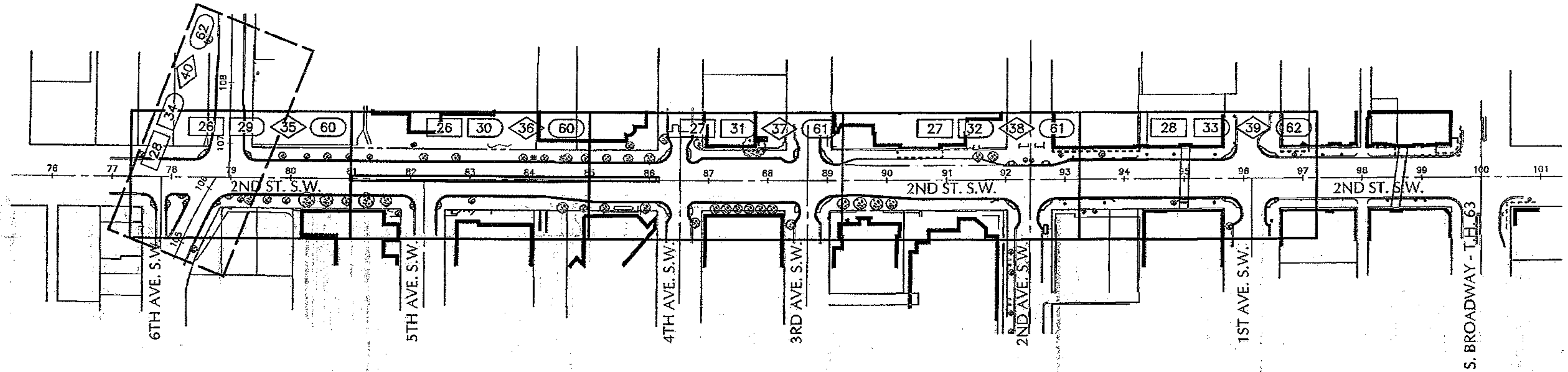
LOCAL AGENCY SIGNATURES: ROCHESTER, MINNESOTA
DATE: 4/3/09
DIRECTOR OF PUBLIC WORKS: RECOMMENDED FOR APPROVAL DATE: 4/3/09
MANAGER OF ENGINEERING: RECOMMENDED FOR APPROVAL DATE: 4/3/09
R.P.U. WATER DEPARTMENT: RECOMMENDED FOR APPROVAL

STATE AID APPROVALS: DATE: 4/15/09
DISTRICT STATE AID ENGINEER: REVIEWED FOR COMPLIANCE WITH STATE-AID RULES/POLICY DATE: 8/25/09
STATE AID ENGINEER: APPROVED FOR STATE AID AND FEDERAL AID FUNDING

PLAN REVISIONS

DATE	SHEET NO.	APPROVED BY

YAGGY COLBY ASSOCIATES
ENGINEERS ARCHITECTS SURVEYORS PLANNERS LANDSCAPE ARCHITECTS



LEGEND

XX (square)	REMOVAL PLAN SHEET NUMBER
XX (rounded rectangle)	UTILITY PLAN SHEET NUMBER
XX (diamond)	CONSTRUCTION PLAN SHEET NUMBER
XX (oval)	PAVEMENT MARKING PLAN SHEET NUMBER

NORTH

0 50 100 200
SCALE IN FEET

YAGGY COLBY ASSOCIATES
ENGINEERS ARCHITECTS SURVEYORS PLANNERS LANDSCAPE ARCHITECTS

CERTIFIED BY DILLON S. DOMBROVSKI
LIC. NO. 45503 4/3/09

TITLE: GENERAL LAYOUT

S.P. 159-106-17 City Proj. No. J-7247/J-2094 Sheet No. 3 of 147 Sheets

Steve Babcock P:\10481\Cad\Civil\Plans\F\3 GENERAL LAYOUT Monday, April 06, 2009 10:31:35 AM

STATEMENT OF ESTIMATED QUANTITIES

TABULATION LETTER	SHEET NUMBER	NOTE	ITEM NUMBER	ITEM	UNITS	S.P. 159-106-17 PARTICIPATING	S.P. 159-106-17 NON-PARTICIPATING	S.P. 159-106-17 STORM SEWER (100%)	TRANSIT PROJECT (FTA FUNDS)	TOTAL QUANTITIES ESTIMATED QUANTITIES	TOTAL QUANTITIES FINAL QUANTITIES
				STREET (350)							
			2021.501	MOBILIZATION	LUMP SUM	0.55	0.03	0.03	0.39	1	
G	12		2101.502	CLEARING	TREE	1			9	10	
G	12		2101.507	GRUBBING	TREE	1			9	10	
			2102.502	PAVEMENT MARKING REMOVAL	LIN FT	525				525	
G	12		2104.501	REMOVE CURB & GUTTER	LIN FT	3,835				3,835	
H	12	6 8	2104.505	REMOVE CONCRETE DRIVEWAY PAVEMENT	SQ YD	71				71	
G	12	6	2104.505	REMOVE CONCRETE PAVEMENT	SQ YD	9,201				9,201	
G	12	6	2104.505	REMOVE BITUMINOUS PAVEMENT	SQ YD	6,562				6,562	
			2104.513	SAWING CONCRETE PAVEMENT (FULL DEPTH)	LIN FT	600				600	
G	12		2104.513	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LIN FT	1,085				1,085	
M	13	5	2105.501	COMMON EXCAVATION (EV) (P)	CU YD	8,409				8,409	
J	12		2105.522	SELECT GRANULAR BORROW MOD (CV) (P)	CU YD	5,598				5,598	
M	13		2105.525	SELECT TOPSOIL BORROW (CV)	CU YD	785			173	958	
		12	2105.526	SELECT TOPSOIL BORROW (CV) MOD	CU YD	117				117	
O	14	2	2211.501	AGGREGATE BASE CLASS 2	TON	183				183	
J	12	4	2211.503	AGGREGATE BASE CLASS 2 (CV) (P)	CU YD	2,351				2,351	
J	12		2301.501	CONCRETE PAVEMENT	SQ YD	13,573				13,573	
J	12		2301.511	STRUCTURAL CONCRETE	CU YD	2,139				2,139	
J	12	10	2301.513	STRUCTURAL CONCRETE HE	CU YD	1,066				1,066	
L	13	17	2301.529	REINFORCEMENT BARS (EPOXY COATED)	POUND	11,783				11,783	
L	13		2301.538	DOWEL BAR	EACH	10,222				10,222	
I	12		2301.541	INTEGRANT CURB DESIGN B6	LIN FT	278				278	
L	13		2301.602	DRILL & GROUT DOWEL BAR (EPOXY COATED)	EACH	344				344	
L	13		2301.602	DRILL & GROUT REINFORCEMENT BAR (EPOXY COATED)	EACH	33				33	
J	12		2301.604	CONCRETE PAVEMENT SPECIAL	SQ YD	956				956	
J	12		2301.607	STRUCTURAL CONCRETE (SPECIAL 1)	CU YD	157				157	
J	12		2301.607	STRUCTURAL CONCRETE (SPECIAL 2)	CU YD	69				69	
O	14	3 7	2350.505	TYPE MV 3 BIT MIXTURE FOR PATCHING	TON	101				101	
			2481.618	MEMBRANE WATERPROOFING	SQ FT		5,600			5,600	
B	9		2504.602	ADJUST VALVE BOX	EACH	33				33	
A,D	8,11		2506.522	ADJUST FRAME & RING CASTING	EACH	2				2	
I	12		2531.501	CONCRETE CURB & GUTTER DESIGN B612	LIN FT	1,018				1,018	
I	12	9	2531.501	CONCRETE CURB & GUTTER DESIGN B624	LIN FT	1,726				1,726	
I	12	9	2531.501	CONCRETE CURB & GUTTER DESIGN B624 (MOD)	LIN FT	2,309				2,309	
H	12		2531.507	7" CONCRETE DRIVEWAY PAVEMENT	SQ YD	32				32	
H	12	11	2531.604	7" CONCRETE DRIVEWAY PAVEMENT SPECIAL	SQ YD	19				19	
			2540.601	IRRIGATION SYSTEM	LUMP SUM		0.70		0.30	1	
			2563.601	TRAFFIC CONTROL	LUMP SUM	1				1	
			2571.503	DECIDUOUS TREE 2.5" CAL B&B	TREE	37				37	
			2571.504	CONIFEROUS SHRUB 3' SPREAD CONT	SHRUB	44				44	
			2571.505	DECIDUOUS SHRUB NO. 5 CONT	SHRUB	242			16	258	
			2571.507	PERENNIAL 1 GAL CONT	PLANT	1,191			180	1,371	
			2573.530	STORM DRAIN INLET PROTECTION	EACH	35				35	
			2575.502	SEED MIXTURE 260	POUND	29				29	
N	13		2575.505	SODDING TYPE MINERAL	SQ YD	100				100	
			2575.513	MULCH MATERIAL TYPE 6	CU YD	82			18	100	
P	14		2582.501	PAVEMENT MESSAGE (LEFT ARROW) EPOXY - GROUND IN	EACH	5				5	
P	14		2582.501	PAVEMENT MESSAGE (RIGHT ARROW) EPOXY - GROUND IN	EACH	2				2	
P	14		2582.501	PAVEMENT MESSAGE (THRU ARROW) EPOXY - GROUND IN	EACH	1				1	
P	14		2582.501	PAVEMENT MESSAGE (RIGHT-THRU ARROW) EPOXY - GROUND IN	EACH	1				1	
P	14	14 18	2582.502	4" SOLID LINE WHITE-EPOXY (GROUND IN)	LIN FT	855				855	
P	14		2582.502	6" CROSSWALK LINE WHITE-EPOXY (GROUND IN)	LIN FT	586				586	
P	14		2582.502	24" STOP LINE WHITE-EPOXY (GROUND IN)	LIN FT	479				479	
P	14	18	2582.502	4" BROKEN LINE WHITE-EPOXY (GROUND IN)	LIN FT	990				990	
P	14	18	2582.502	4" DOUBLE SOLID LINE YELLOW-EPOXY (GROUND IN)	LIN FT	1,599				1,599	
				STORM SEWER (450)							
A	8		2104.501	REMOVE SEWER PIPE (STORM)	LIN FT	772				772	
A	8		2104.509	REMOVE MANHOLE OR CATCH BASIN	EACH	31				31	
			2502.541	4" PERF PVC DRAIN	LIN FT				310	310	
Q	15	13	2503.541	12" RC PIPE SEWER DES 3006 CL V	LIN FT			509		509	
Q	15	13	2503.541	15" RC PIPE SEWER DES 3006 CL V	LIN FT			351		351	
Q	15	13	2503.541	36" RC PIPE SEWER DES 3006 CL III	LIN FT			97		97	
Q	15		2503.602	CONSTRUCT BULKHEAD	EACH			2		2	

(P) PER MN/DOT STANDARD SPECIFICATIONS FOR CONSTRUCTION 1901, PLAN QUANTITY USED FOR PAYMENT

SEE SHEET 7 FOR BID ITEM NOTES

YAGGY COLBY ASSOCIATES
ENGINEERS ARCHITECTS SURVEYORS PLANNERS LANDSCAPE ARCHITECTS

CERTIFIED BY Dillon S. Dombrovski
DILLON S. DOMBROVSKI
LIC. NO. 45503 4/3/09

TITLE: STATEMENT OF ESTIMATED QUANTITIES

STATEMENT OF ESTIMATED QUANTITIES

TABULATION LETTER	SHEET NUMBER	NOTE	ITEM NUMBER	ITEM	UNITS	S.P. 159-106-17 PARTICIPATING	S.P. 159-106-17 NON-PARTICIPATING	S.P. 159-106-17 STORM SEWER (100%)	TRANSIT PROJECT (FTA FUNDS)	TOTAL QUANTITIES ESTIMATED QUANTITIES	TOTAL QUANTITIES FINAL QUANTITIES
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			2481.618	MEMBRANE WATERPROOFING	SQ FT		5,600			5,600	
B	9		2504.602	ADJUST VALVE BOX	EACH	33				33	
A,D	8,11		2506.522	ADJUST FRAME & RING CASTING	EACH	2				2	
I	12		2531.501	CONCRETE CURB & GUTTER DESIGN B612	LIN FT	1,018				1,018	
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H	12	11	2531.604	7" CONCRETE DRIVEWAY PAVEMENT SPECIAL	SQ YD	19				19	
			2540.601	IRRIGATION SYSTEM	LUMP SUM		0.70		0.30	1	
			2563.601	TRAFFIC CONTROL	LUMP SUM	1				1	
			2571.503	DECIDUOUS TREE 2.5" CAL B&B	TREE	37				37	
			2571.504	CONIFEROUS SHRUB 3' SPREAD CONT	SHRUB	44				44	
			2571.505	DECIDUOUS SHRUB NO. 5 CONT	SHRUB	242			16	258	
			2571.507	PERENNIAL 1 GAL CONT	PLANT	1,191			180	1,371	
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			2575.513	MULCH MATERIAL TYPE 6	CU YD	82			18	100	
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P	14		2582.501	PAVEMENT MESSAGE (RIGHT ARROW) EPOXY - GROUND IN	EACH	2				2	
P	14		2582.501	PAVEMENT MESSAGE (THRU ARROW) EPOXY - GROUND IN	EACH	1				1	
P	14		2582.501	PAVEMENT MESSAGE (RIGHT-THRU ARROW) EPOXY - GROUND IN	EACH	1				1	
P	14	14 16	2582.502	4" SOLID LINE WHITE-EPOXY (GROUND IN)	LIN FT	855				855	
P	14		2582.502	6" CROSSWALK LINE WHITE-EPOXY (GROUND IN)	LIN FT	586				586	
P	14		2582.502	24" STOP LINE WHITE-EPOXY (GROUND IN)	LIN FT	479				479	
P	14	18	2582.502	4" BROKEN LINE WHITE-EPOXY (GROUND IN)	LIN FT	990				990	
P	14	18	2582.502	4" DOUBLE SOLID LINE YELLOW-EPOXY (GROUND IN)	LIN FT	1,599				1,599	
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A	8		2104.501	REMOVE SEWER PIPE (STORM)	LIN FT	772				772	
A	8		2104.509	REMOVE MANHOLE OR CATCH BASIN	EACH	31				31	
			2502.541	4" PERF PVC DRAIN	LIN FT				310	310	
Q	15	13	2503.541	12" RC PIPE SEWER DES 3006 CL V	LIN FT			509		509	
Q	15	13	2503.541	15" RC PIPE SEWER DES 3006 CL V	LIN FT			351		351	
Q	15	13	2503.541	36" RC PIPE SEWER DES 3006 CL III	LIN FT			97		97	
Q	15		2503.602	CONSTRUCT BULKHEAD	EACH			2		2	

(P) PER MN/DOT STANDARD SPECIFICATIONS FOR CONSTRUCTION 1901, PLAN QUANTITY USED FOR PAYMENT.

SEE SHEET 7 FOR BID ITEM NOTES

STATEMENT OF ESTIMATED QUANTITIES

TABULATION LETTER	SHEET NUMBER	NOTE	ITEM NUMBER	ITEM	UNITS	S.P. 159-106-17 PARTICIPATING	S.P. 159-106-17 NON-PARTICIPATING	STORM SEWER (100%)	TRANSIT PROJECT (FTA FUNDS)	TOTAL QUANTITIES ESTIMATED QUANTITIES	TOTAL QUANTITIES FINAL QUANTITIES
Q	15		2503.602	CONNECT TO EXISTING STORM SEWER	EACH			32		32	
Q	15		2503.602	CONNECT INTO EXISTING DRAINAGE STRUCTURE	EACH			2		2	
Q	15		2506.502	CONST DRAINAGE STRUCTURE CATCH BASIN TYPE 1	EACH			30		30	
Q	15		2506.502	CONST DRAINAGE STRUCTURE TYPE 4 (48")	EACH			3		3	
Q	15		2506.502	CONST DRAINAGE STRUCTURE TYPE 4 (54")	EACH			1		1	
Q	15		2506.502	CONST DRAINAGE STRUCTURE TYPE 4 (72")	EACH			3		3	
Q	15		2506.502	CONST DRAINAGE STRUCTURE TYPE 4 (84")	EACH			3		3	
		1	2506.516	CASTING ASSEMBLY	EACH	8				8	
			2506.602	RECONSTRUCT DRAINAGE STRUCTURE	EACH			3		3	
				SANITARY SEWER (250)							
			2506.603	RECONSTRUCT SANITARY MANHOLES	LIN FT		56			56	
				WATER MAIN (150)							
			2103.507	DISCONNECT WATER SERVICE	EACH		5			5	
B	9		2104.509	REMOVE GATE VALVE & BOX	EACH		9			9	
B	9		2104.523	SALVAGE HYDRANT	EACH		4			4	
B	9		2504.602	RECONNECT WATER SERVICE	EACH		5			5	
			2504.602	CONNECT TO EXISTING WATER MAIN	EACH		8			8	
			2504.602	HYDRANT	EACH		1			1	
			2504.602	INSTALL HYDRANT	EACH		3			3	
			2504.602	4" GATE VALVE AND BOX	EACH		1			1	
			2504.602	6" GATE VALVE AND BOX	EACH		2			2	
			2504.602	8" GATE VALVE AND BOX	EACH		6			6	
			2504.602	12" GATE VALVE AND BOX	EACH		2			2	
			2504.602	CURB STOP & BOX	EACH		5			5	
			2504.603	WATERMAIN INSULATION	LIN FT		59			59	
			2504.603	1" TYPE K COPPER PIPE	LIN FT		91			91	
			2504.603	2" TYPE K COPPER PIPE	LIN FT		22			22	
			2504.603	4" WATERMAIN DUCTILE IRON CL 52	LIN FT		16			16	
			2504.603	6" WATERMAIN DUCTILE IRON CL 52	LIN FT		26			26	
			2504.603	8" WATERMAIN DUCTILE IRON CL 52	LIN FT		686			686	
			2504.603	12" WATERMAIN DUCTILE IRON CL 52	LIN FT		145			145	
			2504.608	DUCTILE IRON FITTINGS	POUND		1,676			1,676	
				TRAFFIC (650)							
G	12		2104.509	REMOVE LIGHT BASE FOUNDATION	EACH	21				21	
			2104.509	REMOVE SIGNAL SYSTEM A	EACH	1				1	
			2104.509	REMOVE SIGNAL SYSTEM B	EACH	1				1	
			2104.509	REMOVE SIGNAL SYSTEM C	EACH	1				1	
			2104.509	REMOVE SIGNAL SYSTEM D	EACH	1				1	
			2104.509	REMOVE SIGNAL SYSTEM E	EACH	1				1	
			2104.509	REMOVE HANDHOLE	EACH	3				3	
			2104.521	SALVAGE INTERCONNECT CABLE	LIN FT	2,970				2,970	
			2104.523	SALVAGE LUMINAIRE	EACH	1				1	
			2104.523	SALVAGE LIGHTING UNIT	EACH	4				4	
			2545.501	ELECTRIC LIGHT SYSTEM	LUMP SUM	1				1	
			2545.509	CONDUIT SYSTEM	LUMP SUM	1				1	
S	81		2545.511	LIGHTING UNIT TYPE SPECIAL 1	EACH	9				9	
S	81		2545.511	LIGHTING UNIT TYPE SPECIAL 2	EACH	4				4	
S	81		2545.511	LIGHTING UNIT TYPE SPECIAL 3	EACH	5				5	
S	81		2545.511	LIGHTING UNIT TYPE SPECIAL 4	EACH	10				10	
S	81		2545.511	LIGHTING UNIT TYPE SPECIAL 5	EACH	4				4	
			2545.513	LUMINAIRE	EACH	1				1	
			2545.515	LIGHT BASE DESIGN A	EACH	12				12	
			2545.515	LIGHT BASE DESIGN B	EACH	5				5	
			2545.515	LIGHT BASE DESIGN C	EACH	1				1	
			2545.515	LIGHT BASE DESIGN D	EACH	14				14	
			2550.501	FIBER OPTIC SYSTEM	LUMP SUM	1				1	
		16	2564.531	SIGN PANELS TYPE SPECIAL	SQ FT		120			120	
T	14		2564.531	SIGN PANELS TYPE C	SQ FT	75				75	
			2564.531	SIGN PANELS TYPE D	SQ FT	338				338	
			2565.511	TRAFFIC CONTROL SIGNAL SYSTEM A	SIG SYS	1				1	
			2565.511	TRAFFIC CONTROL SIGNAL SYSTEM B	SIG SYS	1				1	

SEE SHEET 7 FOR BID ITEM NOTES

YAGGY COLBY ASSOCIATES
ENGINEERS ARCHITECTS SURVEYORS PLANNERS LANDSCAPE ARCHITECTS

CERTIFIED BY DILLON S. DOMBROVSKI
LIC. NO. 45503 4/3/09

TITLE: STATEMENT OF ESTIMATED QUANTITIES

STATEMENT OF ESTIMATED QUANTITIES

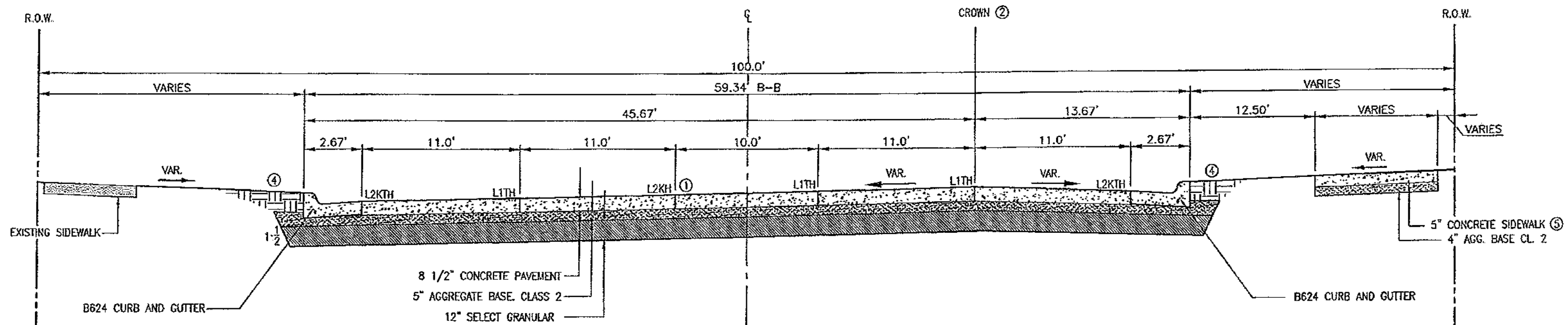
TABULATION LETTER	SHEET NUMBER	NOTE	ITEM NUMBER	ITEM	UNITS	S.P. 159-106-17 PARTICIPATING	S.P. 159-106-17 NON-PARTICIPATING	S.P. 159-106-17 STORM SEWER (100%)	TRANSIT PROJECT (FTA FUNDS)	TOTAL QUANTITIES ESTIMATED QUANTITIES	TOTAL QUANTITIES FINAL QUANTITIES
			2565.511	TRAFFIC CONTROL SIGNAL SYSTEM C	SIG SYS	1				1	
			2565.511	TRAFFIC CONTROL SIGNAL SYSTEM D	SIG SYS	1				1	
			2565.603	6 PR #19 INTERCONNECT	LIN FT	500				500	
			2565.603	INSTALL 6 PR #19 INTERCONNECT	LIN FT	1,750				1,750	
			2565.616	REVISE SIGNAL SYSTEM E	SYSTEM	1				1	
			2565.616	REVISE SIGNAL SYSTEM F	SYSTEM	1				1	
				PED FACILITIES (560)							
G	12	8	2104.505	REMOVE CONCRETE WALK	SQ YD	13,046			13,215	26,261	
K	13		2521.501	5" CONCRETE WALK	SQ FT	3,095			650	3,745	
			2521.501	5" CONCRETE WALK-EXPOSED AGGREGATE	SQ FT	100				100	
K	13		2521.501	5" CONCRETE WALK SPECIAL	SQ FT	8,475			201	8,676	
K	13		2521.501	5" CONCRETE WALK SPECIAL 1	SQ FT	25				25	
K	13		2521.501	5" CONCRETE WALK SPECIAL 2	SQ FT	650				650	
K	13		2521.501	7" CONCRETE WALK	SQ FT	132				132	
K	13	11	2521.501	7" CONCRETE WALK SPECIAL	SQ FT	78				78	
			2531.603	PRECAST CONCRETE CURB SPECIAL	LIN FT	88			32	120	
K	13		2531.618	TRUNCATED DOMES	SQ FT	652				652	
			2540.602	BOLLARD DESIGN SPECIAL A	EACH	15			4	19	
			2540.602	BOLLARD DESIGN SPECIAL B	EACH	5			35	40	
R	14		2540.602	STONE BENCH	EACH	10			6	16	
			2557.603	ORNAMENTAL FENCE DESIGN SPECIAL A	LIN FT	88				88	
			2557.603	ORNAMENTAL FENCE DESIGN SPECIAL B	LIN FT	403			97	500	
				GENERAL ENGINEERING (091)							
			2100.601	DE-ICING SYSTEM	LUMP SUM	0.10			0.90	1	
			2100.602	ARCHITECTURAL RELIEF TILES	EACH				70	70	
			2104.523	SALVAGE BUS STOP SHELTER	EACH				6	6	
K	13		2521.501	5" CONCRETE WALK SPECIAL 3	SQ FT	759			2,355	3,114	
K	13		2521.501	5" CONCRETE WALK SPECIAL 4	SQ FT	514			8,279	8,793	
K	13		2521.501	5" CONCRETE WALK SPECIAL 5	SQ FT				205	205	
K	13		2521.501	5" CONCRETE WALK SPECIAL 6	SQ FT				1,410	1,410	
			2540.601	RELOCATE BUS SHELTER	LUMP SUM				1	1	
			2540.601	GRADE BEAM RESTORATION	LUMP SUM				1	1	
			2540.602	WASTE RECEPTACLE	EACH				6	6	
			2540.602	RECYCLING UNIT	EACH				6	6	
		15	2540.602	BUS SHELTER DESIGN SPECIAL 1	EACH				1	1	
		15	2540.602	BUS SHELTER DESIGN SPECIAL 2	EACH				1	1	
		15	2540.602	BUS SHELTER DESIGN SPECIAL 3	EACH				1	1	
		15	2540.602	BUS SHELTER DESIGN SPECIAL 4	EACH				1	1	
		15	2540.602	BUS SHELTER DESIGN SPECIAL 5	EACH				1	1	
			2545.503	ELECTRIC POWER SYSTEM	LUMP SUM				1	1	
			2550.501	CCTV SYSTEM	LUMP SUM				1	1	
			2550.601	SHELTER WORK	LUMP SUM				1	1	

SEE SHEET 7 FOR BID ITEM NOTES

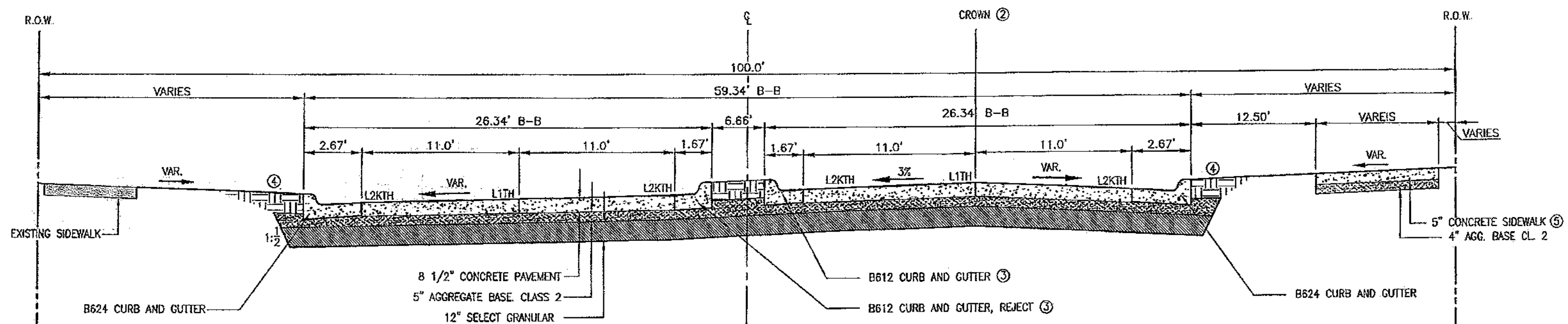
YAGGY COLBY ASSOCIATES
ENGINEERS ARCHITECTS SURVEYORS PLANNERS LANDSCAPE ARCHITECTS

CERTIFIED BY DILLON S. DOMBROVSKI
LIC. NO. 45503 4/3/09

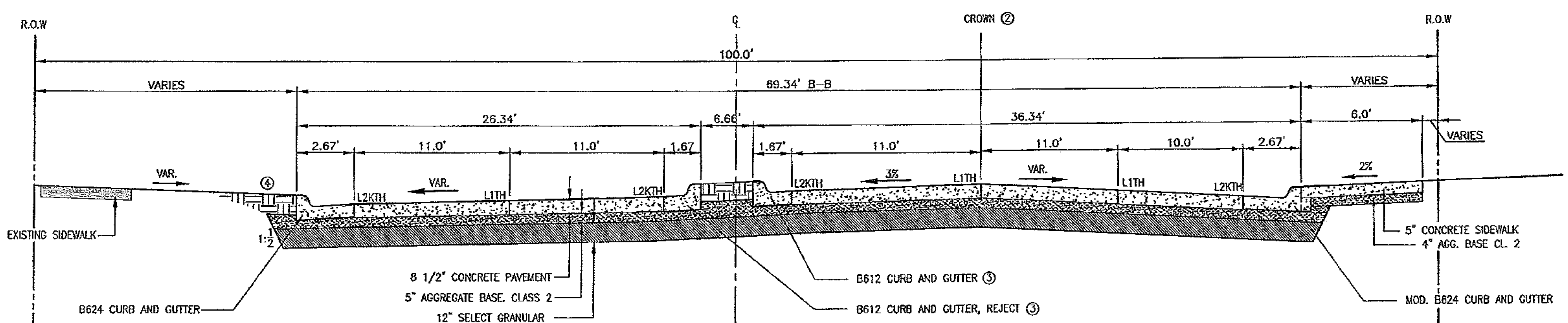
TITLE: STATEMENT OF ESTIMATED QUANTITIES



TYPICAL SECTION
2ND STREET S.W.
STA. 77+49.47 TO STA. 80+97.62
(6TH AVE. S.W TO START OF MEDIAN)



TYPICAL SECTION
2ND STREET S.W.
STA. 80+97.62 TO STA. 84+26.41
(START OF MEDIAN TO CURB TRANSITION)



TYPICAL SECTION
2ND STREET S.W.
STA. 84+26.41 TO STA. 86+15.59
(CURB TRANSITION TO 4TH AVE. S.W.)

① STAGING PLANS AS PRESENTED ASSUME THAT THIS JOINT WILL BE THE FULL DEPTH CONSTRUCTION JOINT BETWEEN THE WESTBOUND AND EASTBOUND PAVING.

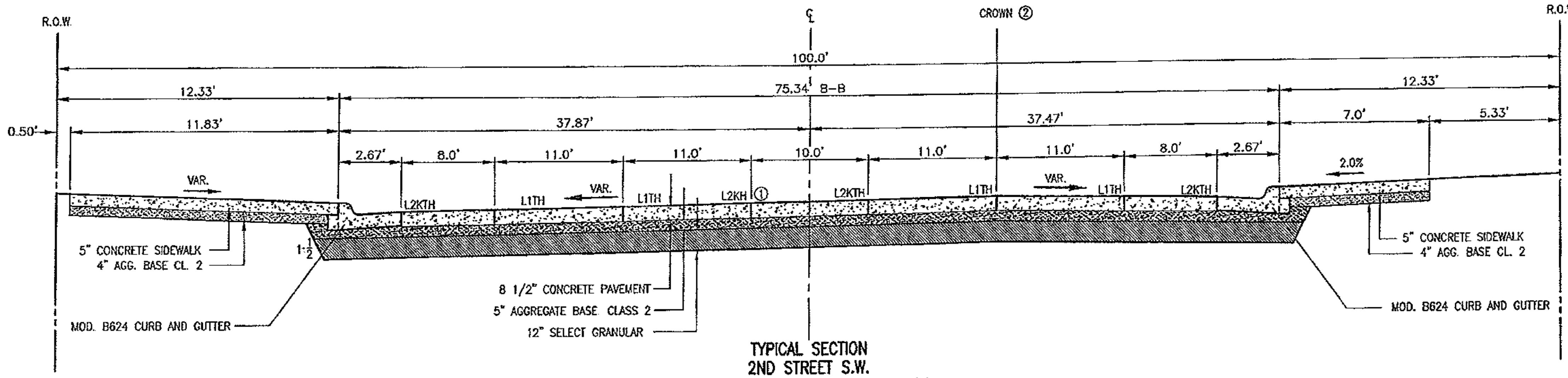
② PAVING CROWN ELEVATIONS ON CONSTRUCTION PLANS ARE TO THIS CONSTRUCTION JOINT

③ SEE PLAN VIEW OF CONSTRUCTION PLAN SHEETS FOR CURB ELEVATIONS.

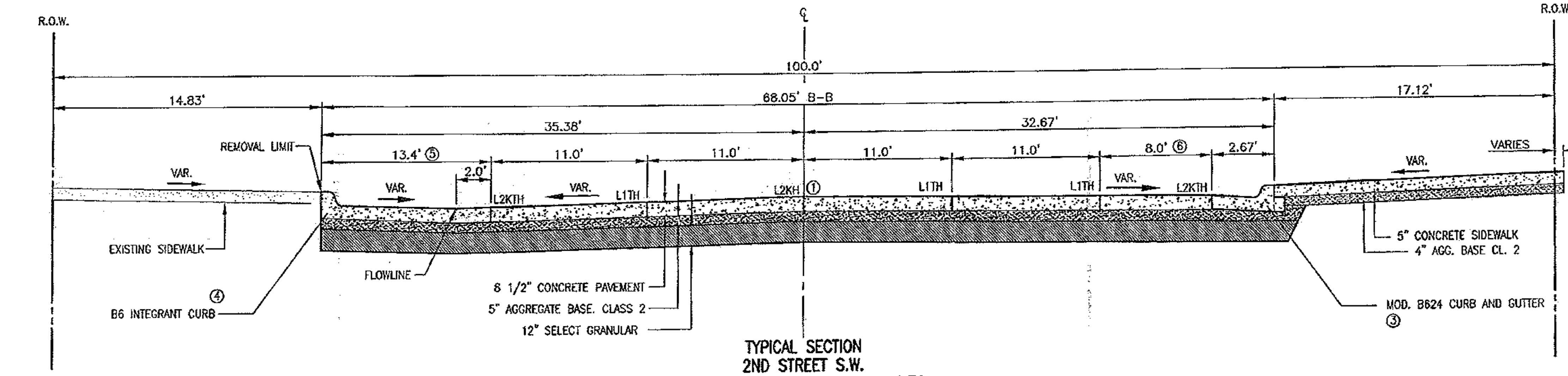
④ BACKFILL BEHIND NEW CURB, PLACE TOPSOIL, AND SOD TO RESTORE BOULEVARD. SEE SPECIAL PROVISIONS FOR SOD.

⑤ SPOT SIDEWALK REPAIR WHERE MARKED IN THE FIELD BY CITY STAFF.

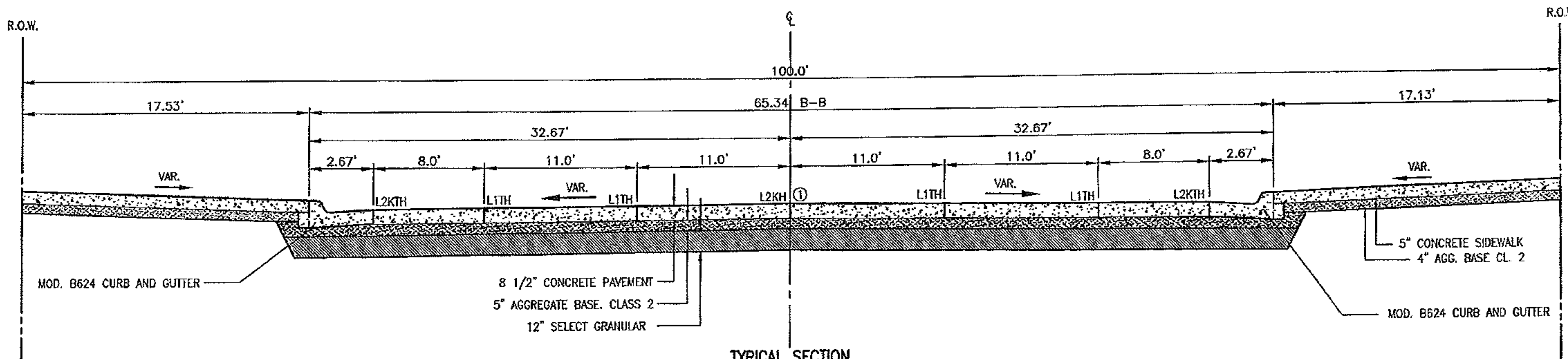
YAGGY COLBY ASSOCIATES	ENGINEERS ARCHITECTS SURVEYORS PLANNERS LANDSCAPE ARCHITECTS	CERTIFIED BY DILLON S. DOMBROVSKI LIC. NO. 45503 4/3/09	TITLE: TYPICAL SECTIONS
S.P. 159-106-17	City Proj. No. J-7247/J-2094		Sheet No. 16 of 147 Sheets



TYPICAL SECTION
2ND STREET S.W.
STA. 86+15.59 TO STA. 88+22.04
(4TH AVE. S.W TO 3RD AVE. S.W.)



TYPICAL SECTION
2ND STREET S.W.
STA. 88+22.04 TO STA. 93+11.76
(3RD AVE. S.W TO 2ND AVE. S.W.)



TYPICAL SECTION
2ND STREET S.W.
STA. 93+11.76 TO STA. 96+59.69
(2ND AVE. S.W TO 1ST AVE. S.W.)

① STAGING PLANS AS PRESENTED ASSUME THAT THIS JOINT WILL BE THE FULL DEPTH CONSTRUCTION JOINT BETWEEN THE WESTBOUND AND EASTBOUND

② PAVING CROWN ELEVATIONS ON CONSTRUCTION PLANS ARE TO THIS CONSTRUCTION JOINT.

③ C&G LOCATION VARIES ON SOUTH SIDE OF 2ND ST. FROM STA. 89+49.03 TO STA. 90+53.58. SEE CONSTRUCTION PLANS FOR MORE INFORMATION.

④ CURB HEIGHT VARIES. SEE CONSTRUCTION PLANS FOR ELEVATIONS.

⑤ TAPERS FROM 2.0' TO 13.4' BETWEEN STA. 89+20.60 AND STA. 89+49.14 AND TAPERS FROM 13.4' TO 2.0' BETWEEN STA. 91+49.90 AND STA. 91+98.28.

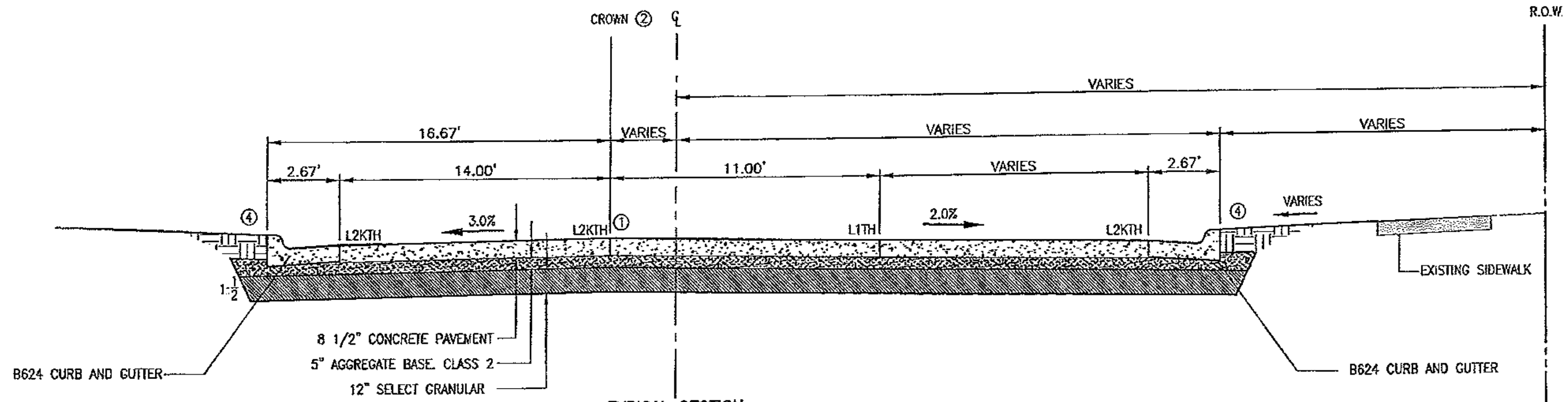
⑥ TAPERS FROM 0.0' TO 8.0' BETWEEN STA. 89+49.03 AND STA. 90+53.58.

YAGGY COLBY ASSOCIATES — ENGINEERS, ARCHITECTS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS

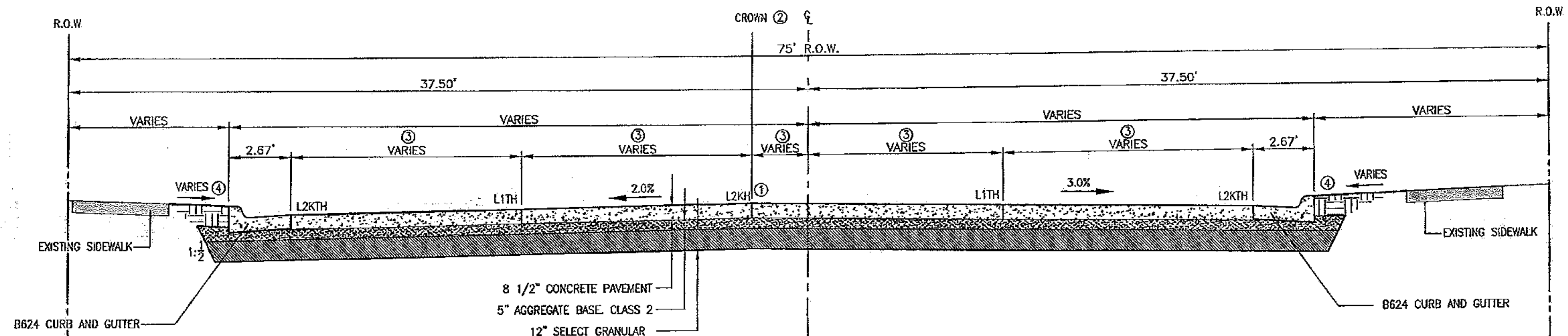
CERTIFIED BY Dillon S. Dombrovski
DILLON S. DOMBROVSKI
LIC. NO. 45503 4/3/09

TITLE: TYPICAL SECTIONS

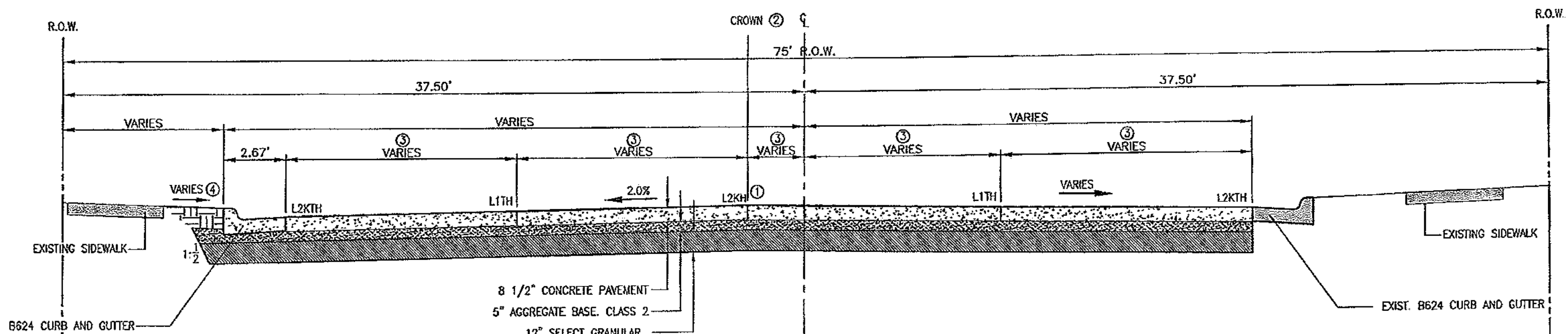
S.P. 159-106-17 City Proj. No. J-7247/J-2094 Sheet No. 17 of 147 Sheets



TYPICAL SECTION
6TH AVENUE S.W.
STA. 105+10 TO STA. 105+65.97
(EXIST. 6TH AVE. S.W TO 2ND ST. S.W.)



TYPICAL SECTION
6TH AVENUE S.W.
STA. 105+65.97 TO STA. 107+63.28
(2ND ST. S.W TO DRIVEWAY APRON)



TYPICAL SECTION
6TH AVENUE S.W.
STA. 107+63.28 TO STA. 108+45.08
(DRIVEWAY APRON TO EXIST. 6TH AVE. S.W.)

① STAGING PLANS AS PRESENTED ASSUME THAT THIS JOINT WILL BE THE FULL DEPTH CONSTRUCTION JOINT BETWEEN THE WESTBOUND AND EASTBOUND PAVING.

② PAVING CROWN ELEVATIONS ON CONSTRUCTION PLANS ARE TO THIS CONSTRUCTION JOINT

③ SEE CONCRETE PAVING PLAN FOR PANEL WIDTHS.

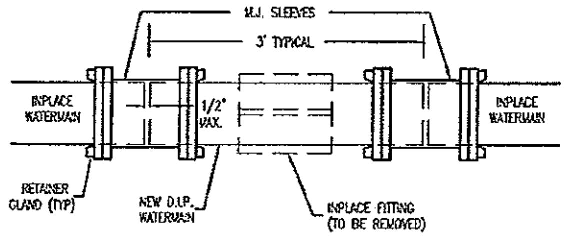
④ BACKFILL BEHIND NEW CURB, PLACE TOPSOIL, AND SOD TO RESTORE BOULEVARD. SEE SPECIAL PROVISIONS FOR SOD.

YAGGY COLBY ASSOCIATES
ENGINEERS ARCHITECTS SURVEYORS PLANNERS LANDSCAPE ARCHITECTS

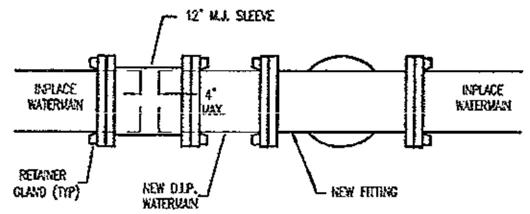
CERTIFIED BY DILLON S. DOVBROVSKI
LIC. NO. 45503 4/3/09

TITLE: TYPICAL SECTIONS

S.P. 159-106-17 City Proj. No. J-7247/J-2094 Sheet No. 18 of 147 Sheets



TYPICAL FITTING REMOVAL DETAIL

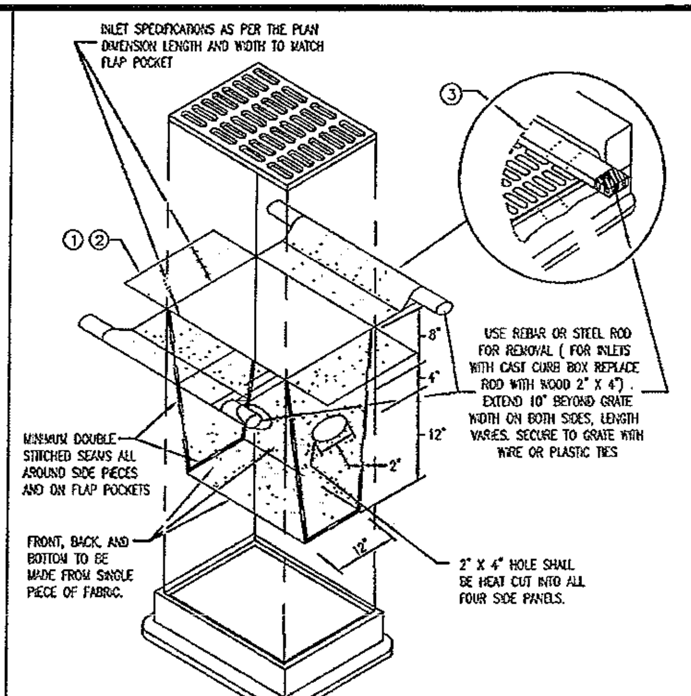


TYPICAL "CUT-IN" FITTING DETAIL

NOTE
1. USE 8" BLOCKING UNDER SLEEVES TO PREVENT SHEARING DUE TO SETTLEMENT.

DEPARTMENT OF PUBLIC WORKS
CITY OF ROCHESTER, MINNESOTA
TYPICAL FITTING CUT-IN AND REMOVAL DETAILS

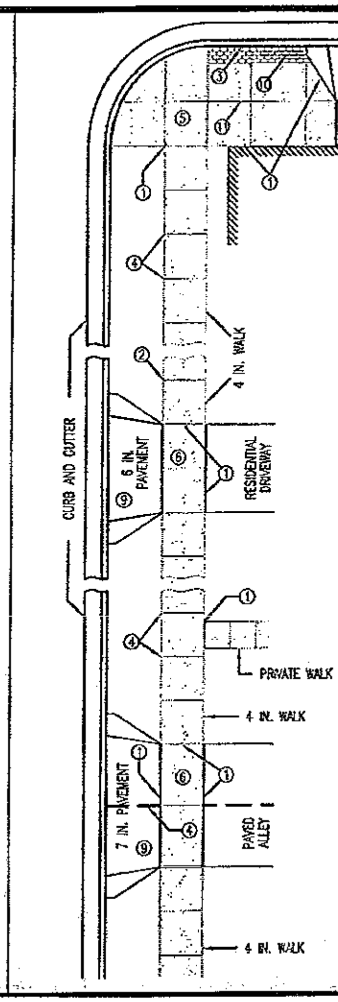
RPU-WATER UTILITY	DIRECTOR		
SHT 1 OF 1 SHTS	DATE REVISED 10/1/97	PLATE NO. 6-15	REV. A

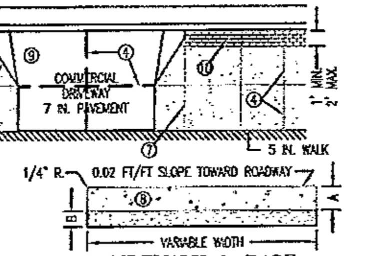


NOTES:
1. ALL GEOTEXTILE USED FOR INLET PROTECTION SHALL BE MONOFILAMENT IN BOTH DIRECTIONS, MEETING SPEC. 3886.
2. FINISHED SIZE, INCLUDING POCKETS WHERE REQUIRED SHALL EXTEND A MINIMUM OF 10 INCHES AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
3. FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2 IN. X 4 INCH OR USE A ROCK SOCK OR SAND BAGS IN PLACE OF THE ROCK SOCK AND WOOD 2 IN. x 4 INCH.
4. INSTALLATION NOTES: DO NOT INSTALL FILTER BAG INSERT IN INLETS SHALLOWER THAN 30 IN., MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE. THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE OF 3" BETWEEN THE INLET WALLS AND THE BAG MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES. WHERE NECESSARY THE CONTRACTOR SHALL CLINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" SIDE CLEARANCE.

DEPARTMENT OF PUBLIC WORKS
CITY OF ROCHESTER, MINNESOTA
INLET PROTECTION-FILTER BAG INSERT

ASST. CITY ENGINEER	DIRECTOR		
SHT 5 OF 5 SHTS	DATE REVISED 6/15/07	PLATE NO. 7-05	REV. C





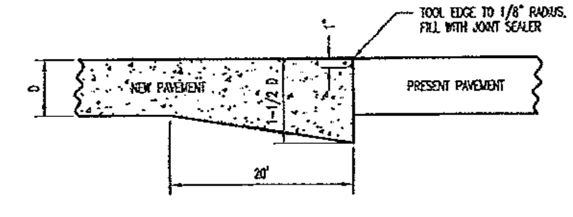
SIDEWALK & BASE

TYPE OF SIDEWALK	A	B CL 2	B CL 7C
RESIDENTIAL	4"	1"	3"
RESIDENTIAL THRU DRIVE	6"	4"	6"
COMM., IND., R-4	5"	1"	3"
COMM., IND., ALLEY, R-4 THRU DRIVE	7"	4"	6"

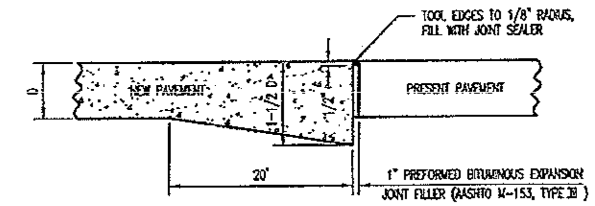
NOTES
1. 1/2 IN. PREFORMED JOINT FILLER MATERIAL MN/DOT SPEC. 3702.
2. 1/2 IN. EXPANSION JOINTS AT PROPERTY LINE AND 100 FT. (APPROX.) MAXIMUM INTERVALS.
3. SEE S.D.P. 2-02 FOR CONCRETE SILL DETAIL.
4. CONTRACTION JOINT (FORMED OR SAWED 1/3 DEPTH) SEE S.D.P. 2-07 TO 2-11 FOR PLACEMENT
5. SEE S.D.P. 2-13 AND PLANS FOR PLACEMENT OF PEDESTRIAN CURB RAMP.
6. SIDEWALK THICKNESS THRU DRIVE APPROACH IS TO BE SAME THICKNESS AS APPROACH.
7. PROVIDE INTERMEDIATE JOINT AT SQUARED END IN SIDEWALK, WHEN SIDEWALK IS ADJACENT TO CURB AND GUTTER.
8. CONCRETE-MN/DOT SPEC. MIX 3A32 BASE-CLASS II AGGREGATE (INCIDENTAL)
9. SEE S.D.P. 2-07 TO 2-11 FOR DRIVE APPROACH.
10. WALKS PLACED ABUTTING THE STREET CURB SHALL HAVE A SPECIAL DECORATIVE PATTERN AS SPECIFICALLY APPROVED BY THE CITY ENGINEER.
11. LONGITUDINAL JOINTS REQUIRED IF SIDEWALK WIDTH EXCEEDS 8 FEET.
12. 18" CLEAR ZONE ON BOTH SIDES OF SIDEWALK ARE TO BE FREE FROM ALL OBSTRUCTIONS.

DEPARTMENT OF PUBLIC WORKS
CITY OF ROCHESTER, MINNESOTA
SIDEWALK DETAILS

ASST. CITY ENGINEER	DIRECTOR		
SHT 1 OF 1 SHTS	DATE REVISED 6/15/07	PLATE NO. 2-14	REV. D

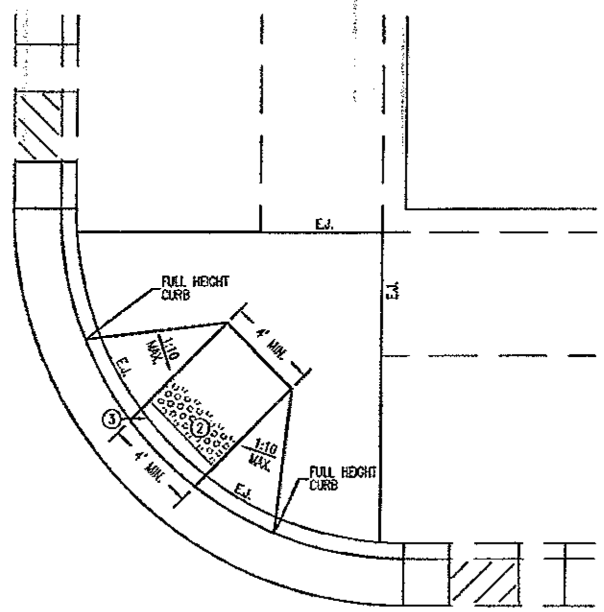


THICKENED EDGE
TE



THICKENED EDGE EXPANSION JOINT
TE

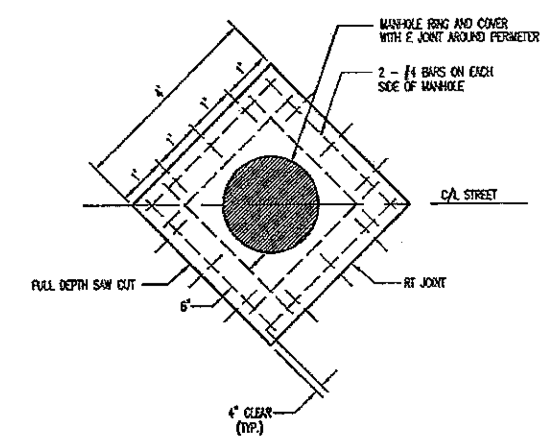
APPROVED BY / DATE July 8, 1994	TITLE: TE JOINT DETAIL	STANDARD PLATE NO. CJ - 1605	YAGGY COLBY ASSOCIATES



NOTES
1. SEE MN/DOT PLATE NO. 7036 FOR A.D.A. REQUIREMENTS FOR SIZE, SLOPE, LOCATION AND TRUNCATED DOME AREA GUIDELINES.
2. IF RAMP IS PAID BY SQ. FT. THEN TRUNCATED DOME AREA IS PAID IN ADDITION TO RAMP AREA.
3. E.J. = 1/2" PREFORMED JOINT FILLER PER MN/DOT SPEC. 3702.
4. RAMP THICKNESS IS TO BE MIN. 6" CONCRETE-MN/DOT SPEC. MIX 3A32 WITH A MIN. OF 4" AGGREGATE BASE CLASS 2 (INCIDENTAL).
5. PRECAST TRUNCATED DOME MATERIAL SHALL BE APPROVED BY THE ENGINEER.

DEPARTMENT OF PUBLIC WORKS
CITY OF ROCHESTER, MINNESOTA
PEDESTRIAN CURB RAMP

ASST. CITY ENGINEER	DIRECTOR		
SHT 1 OF 2 SHTS	DATE REVISED 3/22/06	PLATE NO. 2-13	REV. H



NOTE: 1. DEPTH OF NEW P.C.C. TO MATCH EXISTING P.C.C. DEPTH.
2. P.C.C. PAVEMENT REPLACEMENT TO BE STANDARD P.C. CONCRETE, CLASS C.

APPROVED BY / DATE July 8, 1994	TITLE: MANHOLE BOXOUT	STANDARD PLATE NO. CJ - 1660	YAGGY COLBY ASSOCIATES

YAGGY COLBY ASSOCIATES — ENGINEERS, ARCHITECTS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS

CERTIFIED BY DILLON S. DOMBROVSKI
LIC. NO. 45503 4/3/09

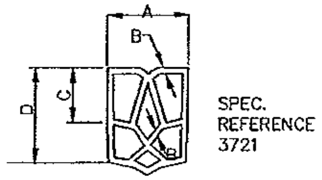
TITLE: MISCELLANEOUS DETAILS

S.P. 159-106-17 City Proj. No. J-7247/J-2094 Sheet No. 21 of 147 Sheets

Steve Babcock I:\10481\Cad\Civil\Plans\21 MISCELLANEOUS DETAILS Wednesday, April 01, 2009 9:24:16 AM

REQUIRED DIMENSIONS

JOINT TYPE	TRANSVERSE
NOMINAL SEALER SIZE	11/16" USE IN ALL 3/8" JOINTS
A	0.69" + 0.13" – 0.05"
B	0.08" ± 0.02"
C	0.25" MIN.
D	0.63" MIN.

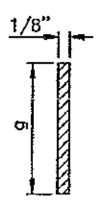


TYPICAL SHAPE FOR SATISFACTORY INSTALLATION IN JOINT (5 CELL MIN.)

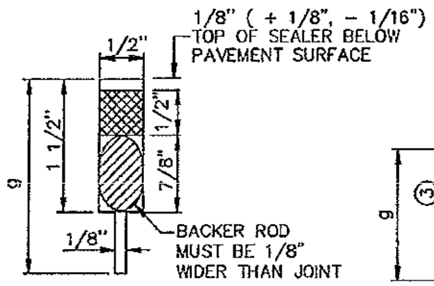
NOTES:
"A" DIMENSION SHALL APPLY AT ANY POINT THROUGHOUT "C" DEPTH. IN ITS FINAL POSITION, THE TOP CORNERS OF THE PREFORMED JOINT SEALER SHALL BE PLACED NOT LESS THAN 1/8 IN., NOR MORE THAN 5/16 IN. BELOW THE PAVEMENT SURFACE.

SHARP INTERNAL CORNERS WILL NOT BE PERMITTED. ALL CORNERS SHALL BE PROVIDED WITH SUITABLE FILLET. CURRENTLY APPROVED CONFIGURATIONS ARE ON FILE IN THE MATERIALS ENGINEERING SECTION, MINNESOTA DEPARTMENT OF TRANSPORTATION.

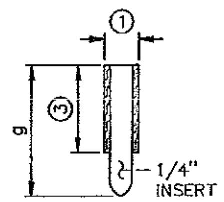
CONTRACTION JOINT SEALER
PREFORMED ELASTIC TYPE



DETAIL A
FORMED & SAWED



DETAIL B ②
SAWED



DETAIL C
FORMED
(INSERT TO BE REMOVED)

CONTRACTION JOINT CLASS DESIGNATION, DETAIL & SEALER SPEC. TABLE

CLASS DESIGNATION WITHOUT DOWELS	CLASS DESIGNATION WITH DOWELS	JOINT DETAIL	JOINT SEALER SPEC.
C1A	C1A–D	A	UNSEALED
C2A	C2A–D	A	3725
C2B	C2B–D	B	3725
C2X	C2X–D	B OR C	3725
C3D	C3D–D	D	3721
C3X	C3X–D	C OR D	3721
C4E	C4E–D	E	3722

DOWEL BAR DIAMETER TABLE

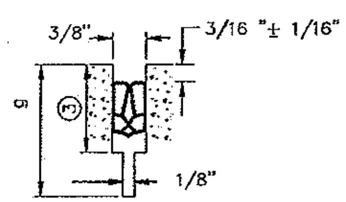
PAVEMENT THICKNESS T	DOWEL BAR DIAMETER
6" – 6 1/2"	1"
7" – 10"	1 1/4"
10 1/2" – 14"	1 1/2"

LEGEND

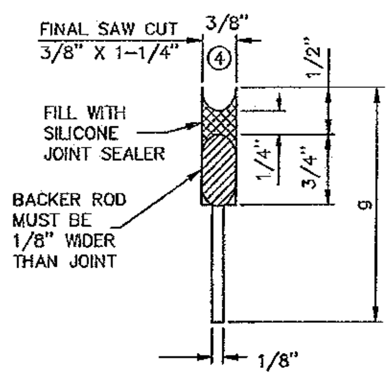
EXAMPLE C2B–D

C = CONTRACTION JOINT
NO. = SEALANT TYPE
1 = UNSEALED
2 = 3725
3 = 3721
4 = 3722

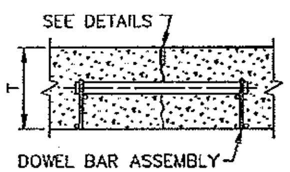
LETTER = DETAIL
X = MORE THAN 1 DETAIL
–D = DOWEL BARS



DETAIL D
SAWED



DETAIL E
SAWED



SECTION AT JOINT

NOTES:

① DESIGN C3X OR C3X–D –PRIOR TO INSTALLING PREFORMED JOINT SEALER IN THE FORMED JOINT (DETAIL C), THE JOINT SHALL BE WIDENED TO A NOMINAL WIDTH OF 3/8" BY SAWING ALONG THE FULL LENGTH OF THE FORMED JOINT.

DESIGN C2X OR C2X–D –PRIOR TO SEALING FORMED JOINT (DETAIL C) WITH HOT POUR SEALER THE JOINT SHALL BE WIDENED TO A NOMINAL WIDTH OF 1/2". SAW ALONG THE FULL LENGTH OF THE FORMED JOINT TO DEPTH OF 3/4" (+ 1/8", – 1/16"). THE SEALER SHALL BE FILLED TO THE SAME DEPTH AS SHOWN IN DETAIL B.

② DESIGN C2B OR C2B–D –PRIOR TO SEALING JOINT (DETAIL B) WITH HOT POUR JOINT SEALER, A 5/8" DIA. CLOSED CELL BACKER ROD SHALL BE PLACED SUCH THAT THE TOP OF THE BACKER ROD IS 5/8" BELOW THE SURFACE OF THE PAVEMENT.

③ WHEN USING PREFORMED JOINT SEALER, THE DEPTH SHALL BE 1/4" MORE THAN THE PREFORMED SEALER, WHEN COMPRESSED, TO FIT THE JOINT DESIGN WIDTH.

④ THE JOINT FACES SHALL BE CLEANED AND DRIED BY SANDBLASTING AND AIR BLASTING. PRIOR TO SEALING THE JOINT, A 1/2" DIA. CLOSED CELL BACKER ROD SHALL BE PLACED SUCH THAT THE TOP OF THE BACKER ROD IS 1/2" BELOW THE SURFACE OF THE PAVEMENT. NON SELF–LEVELING SILICONE SHALL BE TOOLED INTO THE JOINT MAINTAINING A SEALANT BEAD THICKNESS OF 1/4".

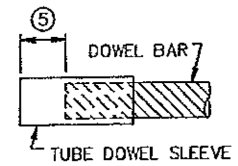
GENERAL NOTES:

SEE STANDARD PLATE 1103, DOWEL BAR ASSEMBLY. SEE STANDARD PLATE 1150, CONSTRUCTION OF HEADER JOINTS. SEE STANDARD PLANS 5–297.217 AND 5–297.219, CONCRETE MAINLINE/RAMP PAVEMENT.

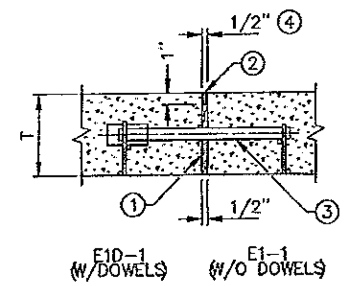
SEE PAVING LAYOUTS IN THE PLANS FOR JOINT CLASS DESIGNATION TO BE USED AND SPECIAL REINFORCEMENT REQUIRED.

FOR UNBONDED OVERLAYS, THE JOINT DEPTH "g" SHALL BE T/3.
FOR CONCRETE PAVEMENT, THE JOINT DEPTH "g" SHALL BE T/4.

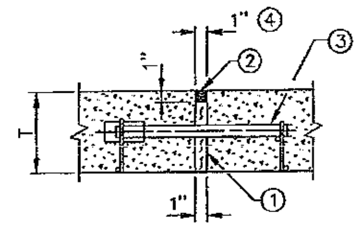
CONTRACTION JOINTS
DESIGN C



DOWEL BAR SLEEVE DETAIL

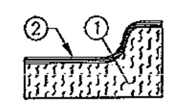


DETAIL A



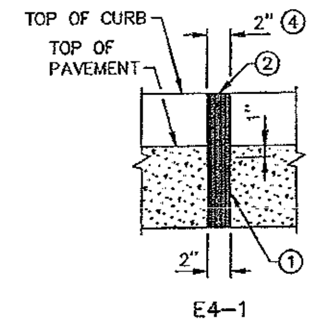
E2D–1 (W/DOWELS) E2–1 (W/O DOWELS)

DETAIL C



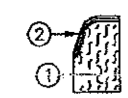
SECTION THRU CURB

E2–1



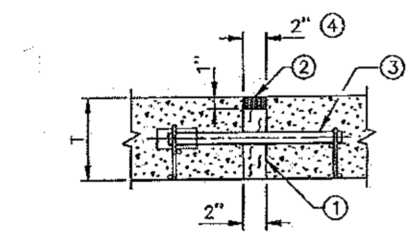
E4–1
(W/O DOWELS)

DETAIL D



SECTION THRU CURB

E4–1



E4D–1
(W/DOWELS)

DETAIL E

EXPANSION JOINTS

CLASS DESIGNATION WITH DOWELS	CLASS DESIGNATION WITHOUT DOWELS	JOINT DETAIL	JOINT SEALER SPEC.
E1D–1	E1–1	A	3723
E2D–1	E2–1	C	3723
	E4–1	D	3723
E4D–1		E	3723
	E8S–1	⑥	3725

LEGEND

E = EXPANSION JOINT
NO. = JOINT REFERENCE ④
D = DOWEL BARS
S = CONCRETE SILL
–1 = HOT POURED SEAL

EXAMPLE

E1D–1
HOT POURED SEAL
DOWEL BARS
JOINT REFERENCE
EXPANSION JOINT

NOTES:

① PREFORMED JOINT FILLER MATERIAL, SPEC. 3702.

② JOINT SEALER SPEC. 3723. TOP OF SEALER, FLUSH TO 1/8" BELOW TOP OF PAVEMENT SURFACE. MAKE TOP OF SEALER FOR CURB SECTION E JOINTS FLUSH WITH SURFACE ± 1/8".

③ DOWEL BAR ASSEMBLY, SEE STANDARD PLATE 1103.

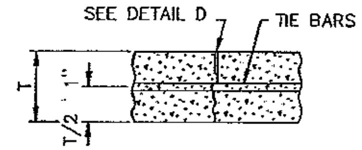
④ THE FIRST NUMBER IN THE JOINT DESIGNATION IS EQUAL TO HALF OF THE JOINT NUMBER IN 1/2" INTERVALS (I.E. E1 = 1/2", E2 = 1", E4 = 2", AND E8 = 4").

⑤ SPACE FROM END OF DOWEL BAR TO END OF SLEEVE TO BE EQUAL TO EXPANSION JOINT WIDTH.

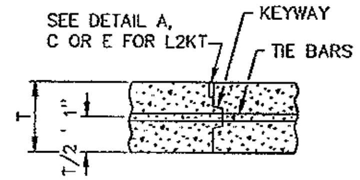
⑥ SEE STANDARD PLAN 5–297.223 FOR E8S JOINT DETAIL.

EXPANSION JOINTS
DESIGN E

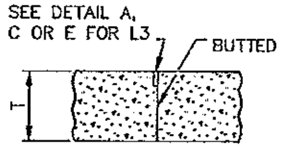
STANDARD SHEET NO.	TITLE:
5–297.221 (1 OF 2)	PAVEMENT JOINTS CONTRACTION (DESIGN C) AND EXPANSION (DESIGN E)
STANDARD APPROVED: JUNE 6, 2005	



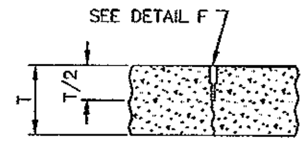
L1 & L1T



L2KT



L3



L4

LONGITUDINAL JOINT CLASS DESIGNATION, DETAIL & SEALER SPECIFICATION TABLE

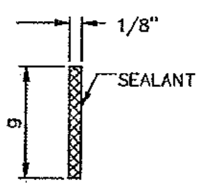
CLASS DESIGNATION				JOINT DETAIL	JOINT SEALER SPECIFICATION
WITHOUT TIE BARS	WITH TIE BARS	WITH KEYWAY & TIE BARS	BUTTED		
L1H	L1TH			B	3723
		L2KTH		D OR E	3723
		L2KTS		C	3722
			L3H	D OR E	3723
			L3S	C	3722
L4S				F	3722

LEGEND

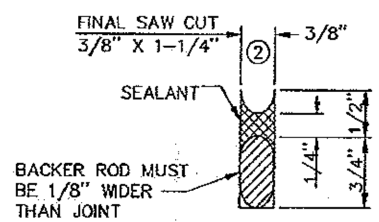
L = LONGITUDINAL JOINT
NO. = JOINT REFERENCE
K = KEYWAY
T = TIE BARS
U = UNSEALED
H = HOT POUR (SEALANT)
S = SILICONE (SEALANT)

JOINT REFERENCE NUMBERS

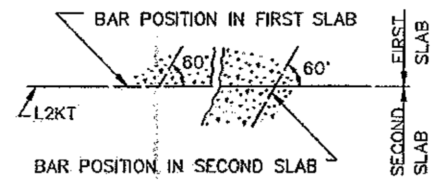
1 = SAWED TO A DEPTH OF T/3
2 = KEYED CONSTRUCTION JOINT
3 = BUTTED CONSTRUCTION JOINT
4 = SAWED TO A DEPTH OF T/2



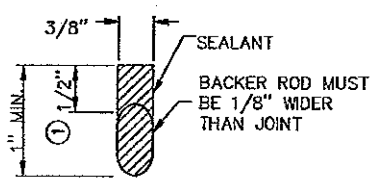
DETAIL B
(SAWED & SEALED WITH SPEC. 3723)



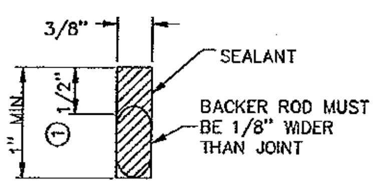
DETAIL C
(SAWED AND SEALED WITH SPEC. 3722)



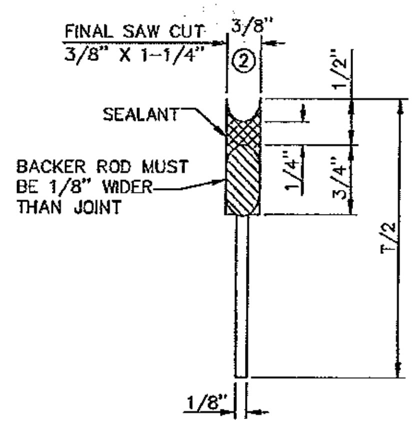
TIE BAR BENDING DETAIL



DETAIL D
(FORMED & SEALED WITH SPEC. 3723)



DETAIL E
(SAWED & SEALED WITH SPEC. 3723)



DETAIL F
(SAWED AND SEALED WITH SPEC. 3722)

LONGITUDINAL JOINT NOTES:

ALL REBARS ARE IN METRIC DESIGNATIONS

THE TIE BAR SPACING FOR ALL L2KT JOINTS SHALL BE 2' - 6" CENTER TO CENTER AND BENT 60° AS SHOWN, EXCEPT WHEN NOTED OTHERWISE IN THE PLANS.

TIE BARS IN THE L2KT JOINTS SHALL BE THE SAME SIZE AND LENGTH AS USED FOR THE L1T JOINTS, WHEN TYING PAVEMENT TO PAVEMENT. TIE BARS IN THE L2KT JOINTS SHALL BE NO. 13 X 2' - 6", WHEN TYING CURB & GUTTER TO PAVEMENT.

ALL TIE BARS SHALL MEET THE REQUIREMENTS OF GRADE 60 FOR AASHTO M-31 OR M-53.

NORMALLY, TIED PAVEMENT WIDTHS SHALL NOT EXCEED FOUR LANES, EXCEPT BRIDGE APPROACH PANELS AND PAVEMENT TAPERS.

JOINT WIDTH TOLERANCE IS + 1/16 IN. TO - 1/32 IN.

FOR CONCRETE PAVEMENT THE JOINT DEPTH " g " SHALL BE T/3 INCHES.

SPEC. 3723 SEALER - TOP OF SEALER FLUSH TO - 3/16 IN. BELOW TOP OF PAVEMENT SURFACE.

1 THE JOINT FACES SHALL BE CLEANED AND DRIED BY SANDBLASTING AND AIR BLASTING. PRIOR TO SEALING THE JOINT, A CLOSED CELL BACKER ROD CAPABLE OF WITHSTANDING SEALANT TEMPERATURES OF 400 DEGREES F, WITH A DIAMETER 1/8 IN. LARGER THAN THE JOINT OPENING, MAY BE PLACED 1/2 IN. BELOW THE TOP OF THE PAVEMENT.

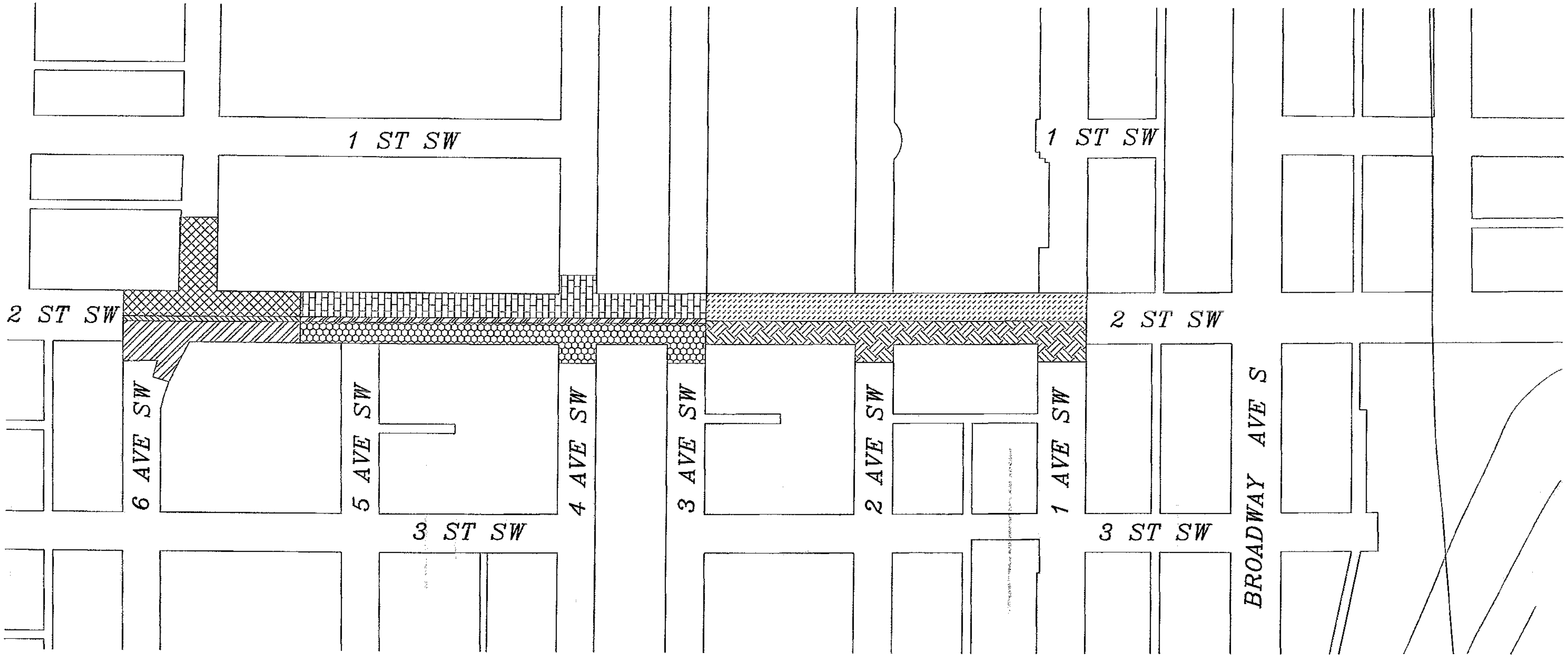
2 THE JOINT FACES SHALL BE CLEANED AND DRIED BY SANDBLASTING AND AIR BLASTING. PRIOR TO SEALING THE JOINT. A 1/2 IN. DIAMETER CLOSED CELL BACKER ROD SHALL BE PLACED SUCH THAT THE TOP OF THE BACKER ROD IS 1/2 IN. BELOW THE SURFACE OF THE PAVEMENT. NON-SELF-LEVELING SILICONE SHALL BE TOOLED INTO THE JOINT MAINTAINING A SEALANT BEAD THICKNESS OF 1/4 IN.

GENERAL NOTES:

SEE STANDARD PLATE 1103, DOWEL BAR ASSEMBLY. SEE STANDARD PLATE 1141, PAVEMENT KEYWAY. SEE STANDARD PLANS 5-297.217 AND 5-297.219 FOR CONCRETE MAINLINE AND RAMP PAVEMENT.

SEE PAVING LAYOUTS IN THE PLANS FOR JOINT CLASS DESIGNATIONS TO BE USED & SPECIAL REINFORCEMENT REQUIRED.

STANDARD SHEET NO. 5-297.221 (2 OF 2)	TITLE: PAVEMENT JOINTS LONGITUDINAL (DESIGN L)
STANDARD APPROVED: JUNE 6, 2005	



STAGE 1A CONSTRUCTION

STAGE 1B CONSTRUCTION

STAGE 1C CONSTRUCTION

STAGE 2A CONSTRUCTION

STAGE 2B CONSTRUCTION

STAGE 2C CONSTRUCTION

STAGE 3A CONSTRUCTION

STAGE 3B CONSTRUCTION

NOTES: SEE TRAFFIC CONTROL PLAN SHEETS AND SPECIAL PROVISIONS FOR ADDITIONAL STAGING DETAILS AS WELL AS CONSTRUCTION SIGNAGE AND TRAFFIC CONTROL.

SEE TRAFFIC CONTROL PLAN SHEETS FOR STAGING OF INTERSECTION CONSTRUCTION.

SEE TRAFFIC CONTROL PLAN SHEETS FOR CONVERSION OF 3RD AVENUE S.W. TO TWO-WAY BUS TRAFFIC ONLY DURING STAGE 3 CONSTRUCTION.

SEE SIGNAL PLANS FOR MODIFICATION TO SIGNAL SYSTEM AT 3RD AVE./4TH STREET S.W. INTERSECTION DURING STAGE 3 CONSTRUCTION.

MAINTAIN TWO-WAY TRAFFIC ON 2ND STREET S.W. AT ALL TIMES FOR ALL STAGES.

MAINTAIN AT LEAST ONE EAST - WEST AND ONE NORTH - SOUTH PEDESTRIAN CROSSING AT ALL INTERSECTIONS DURING WEEKDAYS FOR STAGE 1 & 2 WORK.

NORTH

0 50 100 200

SCALE IN FEET

YAGGY COLBY ASSOCIATES

ENGINEERS ARCHITECTS SURVEYORS PLANNERS LANDSCAPE ARCHITECTS

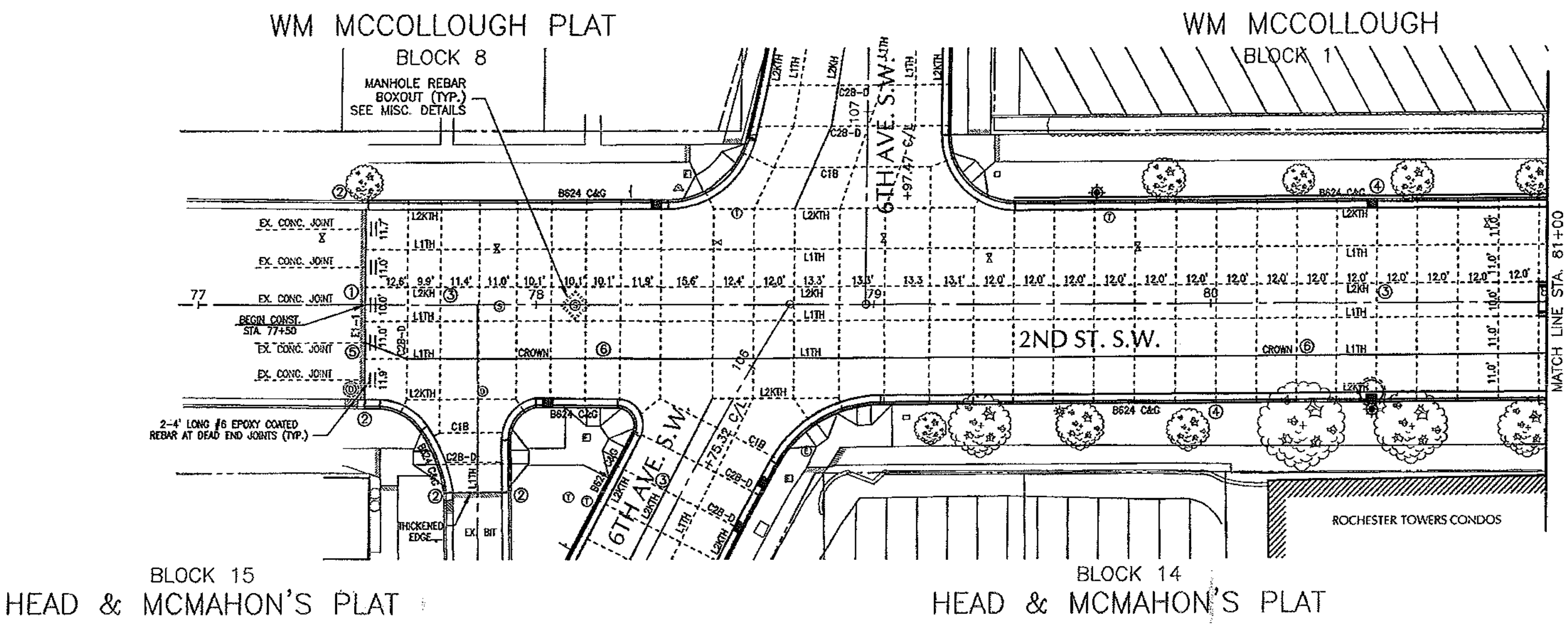
CERTIFIED BY DILLON S. DOMBROVSKI

LIC. NO. 45503 4/3/09

TITLE: CONSTRUCTION STAGING PLAN

S.P. 159-106-17 City Proj. No. J-7247/J-2094 Sheet No. 25 of 147 Sheets

Steve Babcock f:\10481\Cad\Civil\PlansF\25 CONSTRUCTION STAGING PLAN Wednesday, April 01, 2009 9:48:37 AM



NOTES:

① DRILL & GROUT 1" EPOXY COATED DOWEL BARS INTO EXISTING CONCRETE.

② DRILL & GROUT 2-1" EPOXY COATED DOWEL BARS AT C&G CONNECTIONS.

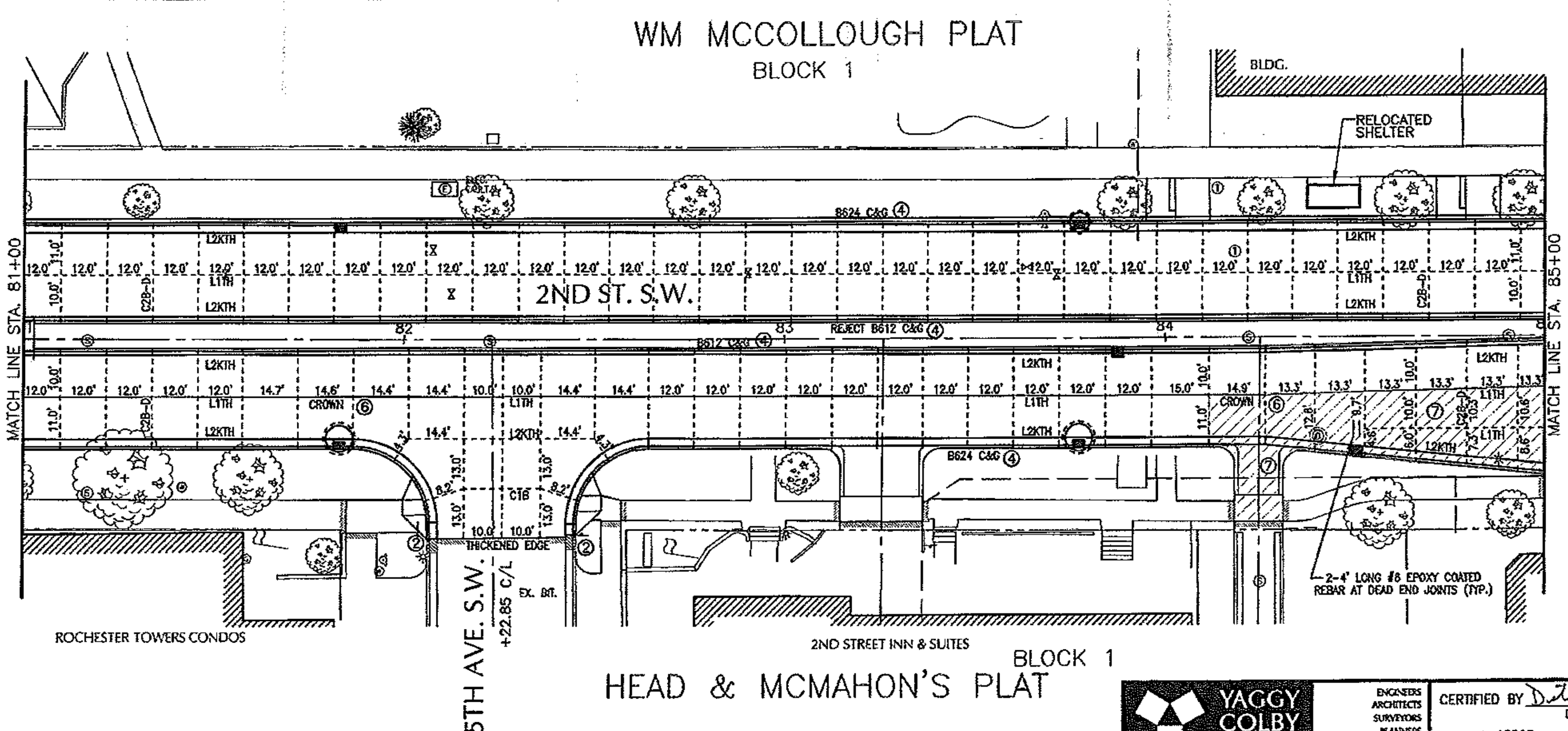
③ PAVEMENT KEYWAYS SHALL BE CONSTRUCTED ACCORDING TO THE DETAIL ON THIS SHEET. MN/DOT STANDARD PLATE NO. 1141 SHALL NOT APPLY.

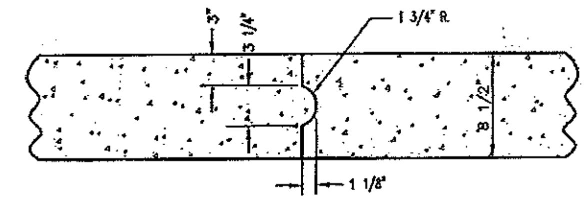
④ CURB AND GUTTER JOINTS SHALL BE CONSTRUCTED TO MATCH TRANSVERSE PAVEMENT JOINTS.

⑤ THICKENED EDGE EXPANSION JOINT. SEE MISCELLANEOUS DETAILS.

⑥ SEE CONSTRUCTION PLANS FOR PAVING CROWN ELEVATIONS.

⑦ PROVIDED FOR MAINTAINING ACCESS TO BALDWIN PARKING RAMP EXIT DRIVE, MONDAY – FRIDAY. SEE TRAFFIC CONTROL PLAN AND SPECIAL PROVISIONS.

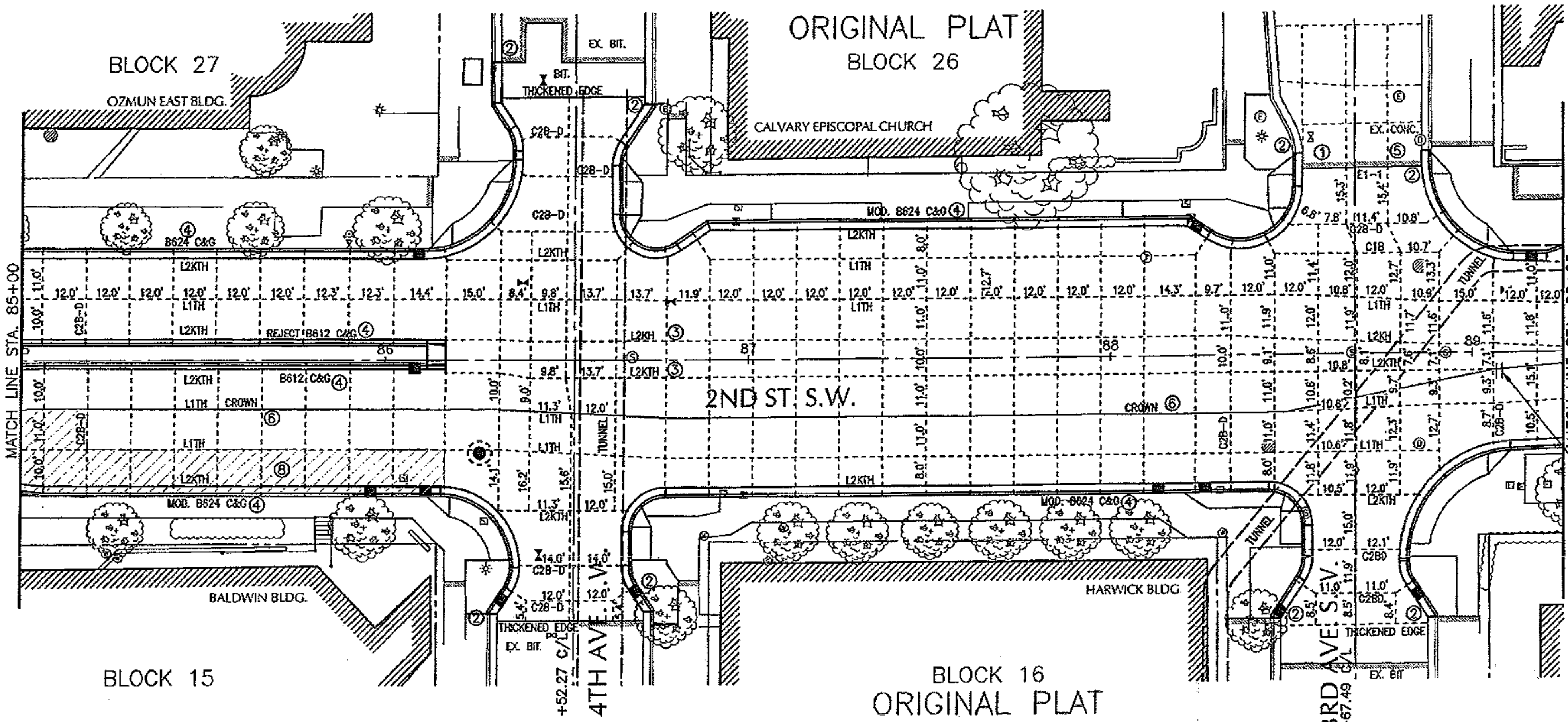




PAVEMENT KEYWAY
FOR KEYED JOINT CONSTRUCTION

HIGH EARLY CONCRETE ⑦

YAGGY COLBY ASSOCIATES — ENGINEERS, ARCHITECTS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS	CERTIFIED BY DILLON S. DOMBROVSKI LIC. NO. 45503 4/3/09	TITLE: CONCRETE PAVING PLAN 2ND STREET S.W. STA. 77+50 TO 85+00	
S.P. 159-106-17	City Proj. No. J-7247/J-2094	Sheet No. 41 of 147 Sheets	

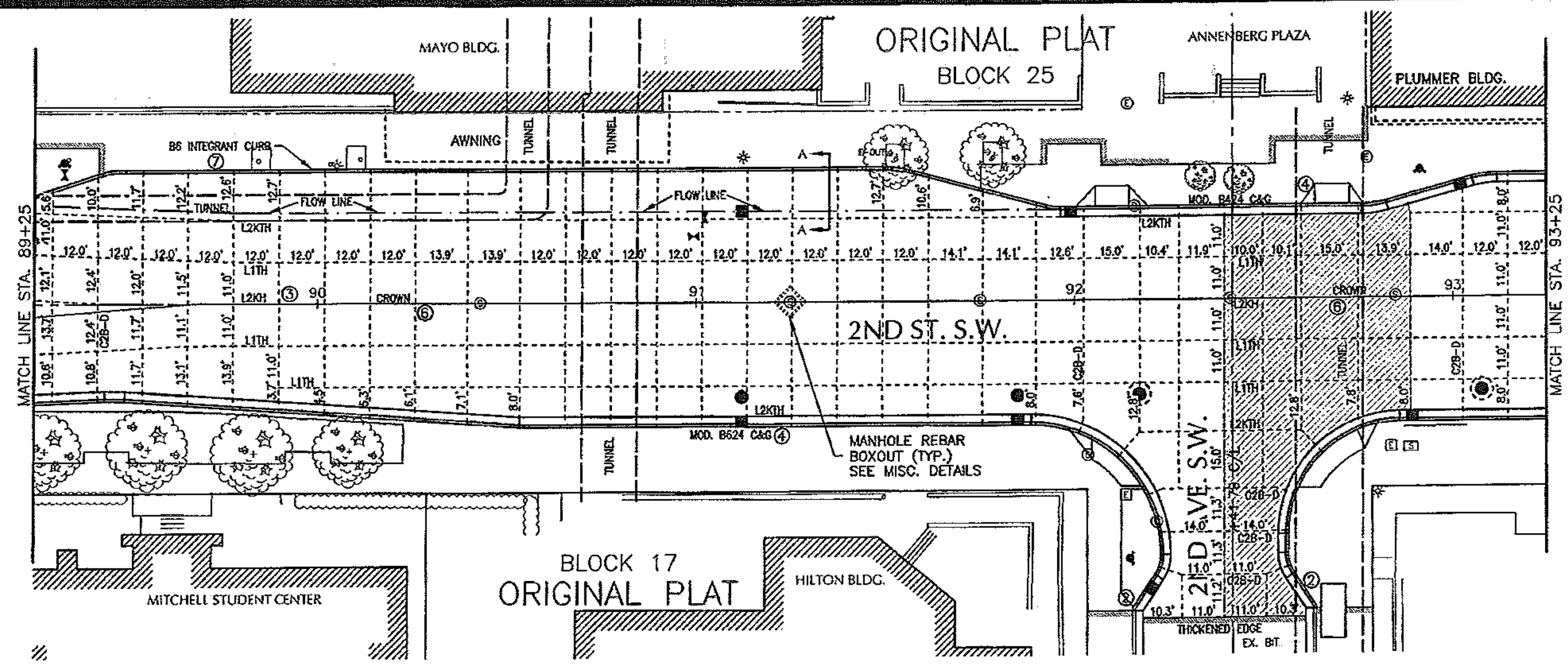


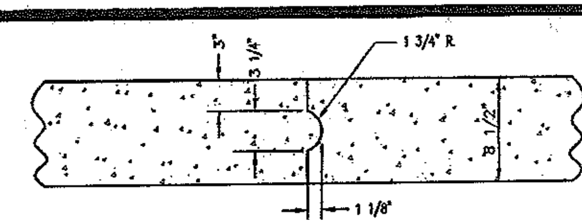
NOTES:

1. DRILL & GROUT 1" EPOXY COATED DOWEL BARS INTO EXISTING CONCRETE.
2. DRILL & GROUT 2-1" EPOXY COATED DOWEL BARS AT C&G CONNECTIONS.
3. PAVEMENT KEYWAYS SHALL BE CONSTRUCTED ACCORDING TO THE DETAIL ON THIS SHEET. MN/DOT STANDARD PLATE NO. 1141 SHALL NOT APPLY.
4. CURB AND GUTTER JOINTS SHALL BE CONSTRUCTED TO MATCH TRANSVERSE PAVEMENT JOINTS.
5. THICKENED EDGE EXPANSION JOINT. SEE MISCELLANEOUS DETAILS.
6. SEE CONSTRUCTION PLAN FOR PAVING CROWN ELEVATIONS.
7. SEE CONSTRUCTION PLANS FOR CURB ELEVATIONS.
8. PROVIDED FOR MAINTAINING ACCESS TO BALDWIN PARKING RAMP EXIT DRIVE, MONDAY – FRIDAY. SEE TRAFFIC CONTROL PLAN AND SPECIAL PROVISIONS.

NORTH

0 10 20 40 SCALE IN FEET

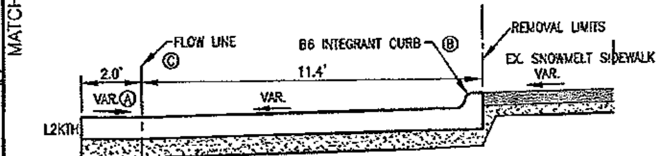




PAVEMENT KEYWAY FOR KEYED JOINT CONSTRUCTION

SUPPLEMENTAL PANEL REINFORCING OVER TUNNEL PER MN/DOT STD. DETAIL PLATE 1070L.

HIGH EARLY CONCRETE (8)



SECTION A-A

NOT TO SCALE

(A) MAINTAIN STREET SLOPE TO FLOW LINE.

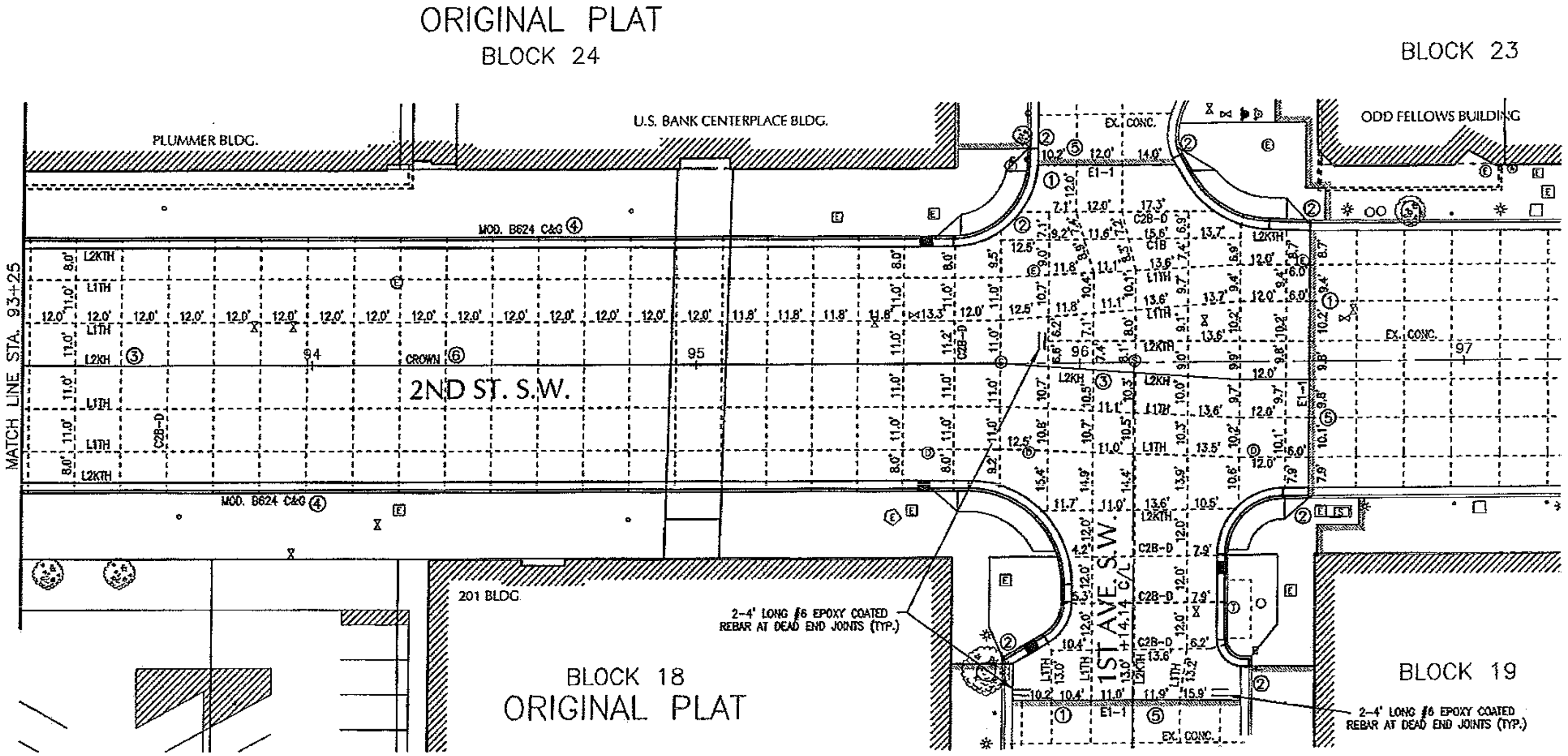
(B) CURB HEIGHT VARIES. SEE CONSTRUCTION PLANS FOR ELEVATIONS.

(C) SEE CONSTRUCTION PLANS FOR FLOWLINE ELEVATIONS.

NORTH

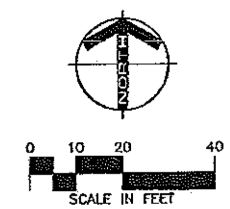
0 10 20 40 SCALE IN FEET

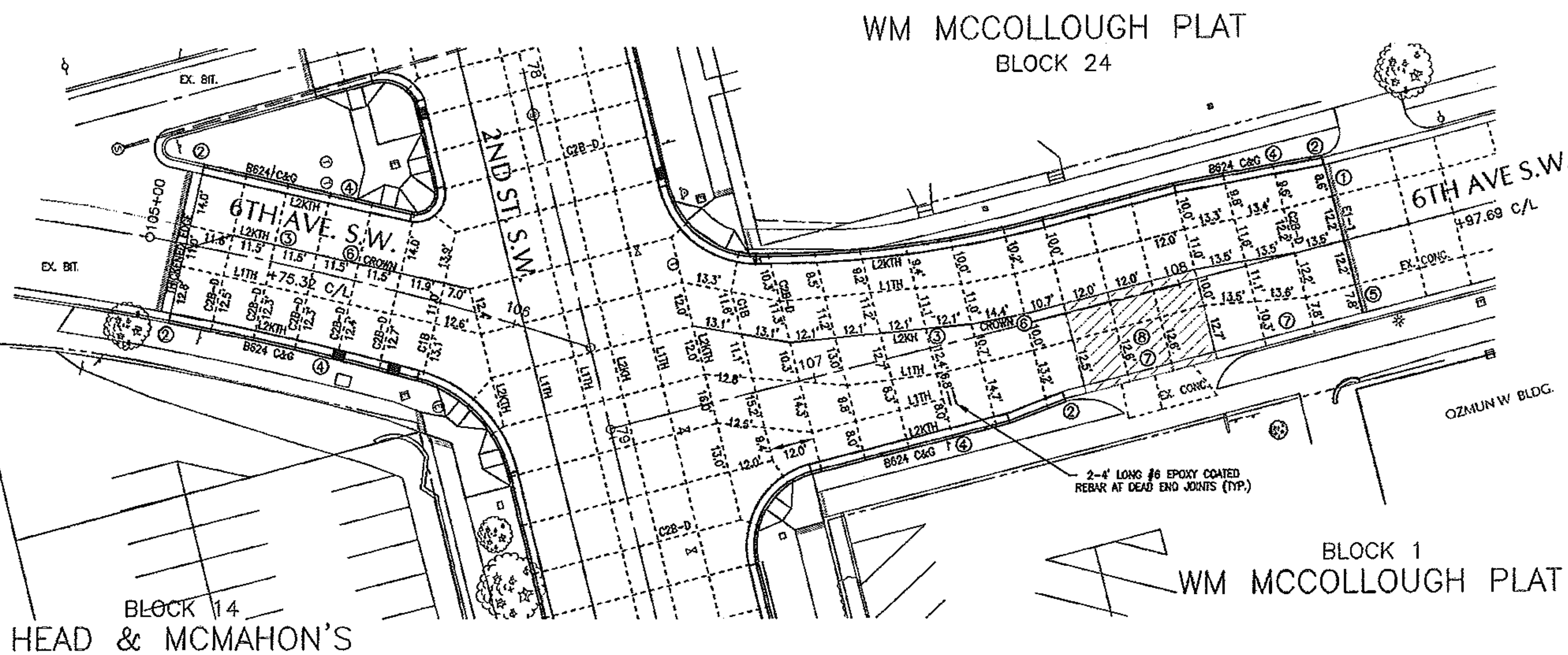
YAGGY COLBY ASSOCIATES	ENGINEERS ARCHITECTS SURVEYORS PLANNERS LANDSCAPE ARCHITECTS	CERTIFIED BY DILLON S. DOMBROVSKI LIC. NO. 45503 4/3/09	TITLE: CONCRETE PAVING PLAN 2ND STREET S.W. STA. 85+00 TO 93+25
S.P. 159-106-17	City Proj. No. J-7247/J-2094		Sheet No. 42 of 147 Sheets

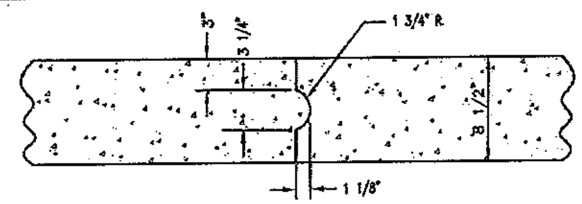


NOTES:

1. DRILL & GROUT 1" EPOXY COATED DOWEL BARS INTO EXISTING CONCRETE.
2. DRILL & GROUT 2-1" EPOXY COATED DOWEL BARS AT C&G CONNECTIONS.
3. PAVEMENT KEYWAYS SHALL BE CONSTRUCTED ACCORDING TO THE DETAIL ON THIS SHEET. MN/DOT STANDARD PLATE NO. 1141 SHALL NOT APPLY.
4. CURB AND GUTTER JOINTS SHALL BE CONSTRUCTED TO MATCH TRANSVERSE PAVEMENT JOINTS.
5. THICKENED EDGE EXPANSION JOINT. SEE MISCELLANEOUS DETAILS.
6. SEE CONSTRUCTION PLANS FOR PAVING CROWN ELEVATIONS.
7. DRILL AND GROUT 18" LONG – #4 EPOXY COATED REBARS AT 2'-6" O.C. TO TIE CONCRETE PAVEMENT TO EXISTING CURB AND GUTTER.
8. PROVIDED FOR MAINTAINING ACCESS TO OZMUN PARKING LOT, MONDAY – FRIDAY. SEE TRAFFIC CONTROL PLAN AND SPECIAL PROVISIONS.

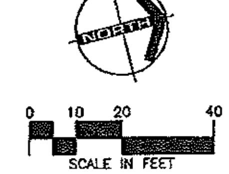




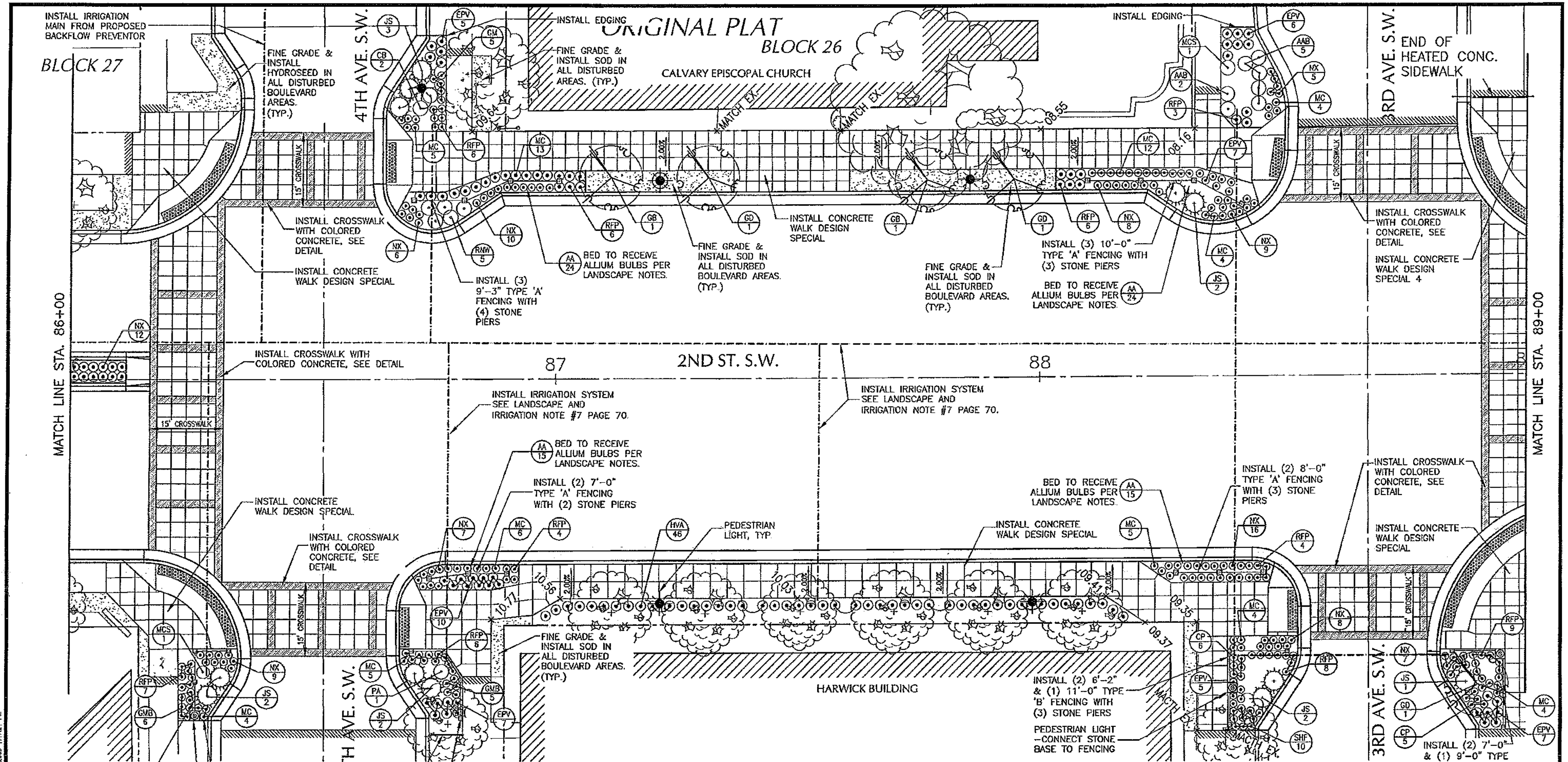


PAVEMENT KEYWAY
FOR KEYED JOINT CONSTRUCTION

HIGH EARLY CONCRETE ⑧



YAGGY COLBY ASSOCIATES	ENGINEERS ARCHITECTS SURVEYORS PLANNERS LANDSCAPE ARCHITECTS	CERTIFIED BY DILLON S. DOMBROVSKI LIC. NO. 45503 4/3/09	TITLE: CONCRETE PAVING PLAN 2ND ST. & 6TH AVE. S.W. STA. 93+25 TO 97+25 - STA. 105+07 TO 108+45
S.P. 159-106-17	City Proj. No. J-7247/J-2094		Sheet No. 43 of 147 Sheets



CONCRETE WALK TYPES

CONCRETE WALK DESIGN SPECIAL	COOL GRAY WITH SLATE TEXTURE
CONCRETE WALK DESIGN SPECIAL 1 (BANDS)	CHARCOAL GRAY WITH LIGHT BROOM FINISH
CONCRETE WALK DESIGN SPECIAL 2	FRENCH GRAY WITH VERMONT SLATE TEXTURE
CONCRETE WALK DESIGN SPECIAL 3	COOL GRAY WITH LIGHT BROOM FINISH (SNOWMELT)
CONCRETE WALK DESIGN SPECIAL 4	COOL GRAY WITH SLATE TEXTURE (SNOWMELT)
CONCRETE WALK DESIGN SPECIAL 5 (BANDS)	CHARCOAL GRAY WITH LIGHT BROOM FINISH (SNOWMELT)
CONCRETE WALK DESIGN SPECIAL 6	FRENCH GRAY WITH VERMONT SLATE TEXTURE (SNOWMELT)

GENERAL NOTES

1. SEE STREETSCAPE NOTES AND SCHEDULES FOR PLANTING AND IRRIGATION NOTES, PLANTING AND FURNISHINGS SCHEDULES AND CONCRETE FINISHING INFORMATION.
2. ALL CONCRETE WALK SPECIAL, SPECIAL 1 AND SPECIAL 2 IS NON-HEATED. CONCRETE WALK SPECIALS 3, 4, 5 AND 6 ARE HEATED WITH HYDRONIC SNOW MELT SYSTEM. SEE SPECIFICATIONS FOR FURTHER DETAILS.
3. SEE SPECIAL PROVISIONS FOR INTEGRAL COLOR INFORMATION AND FINISHING INFORMATION FOR ALL TYPES OF CONCRETE WALK DESIGN SPECIAL.
4. SEE LIGHTING/RECEPTACLE PLAN FOR LIGHTING DETAILS AND INFORMATION.

SYMBOLS LEGEND

EXISTING TREES TO REMAIN
PROPOSED DECIDUOUS TREE
PROPOSED EVERGREEN SHRUB
PROPOSED SHRUBS
FURNISH & INSTALL HYDROSEED
GT / 1 — PLANT SYMBOL (SEE SCHEDULE) — QUANTITY, THIS LOCATION

NORTH

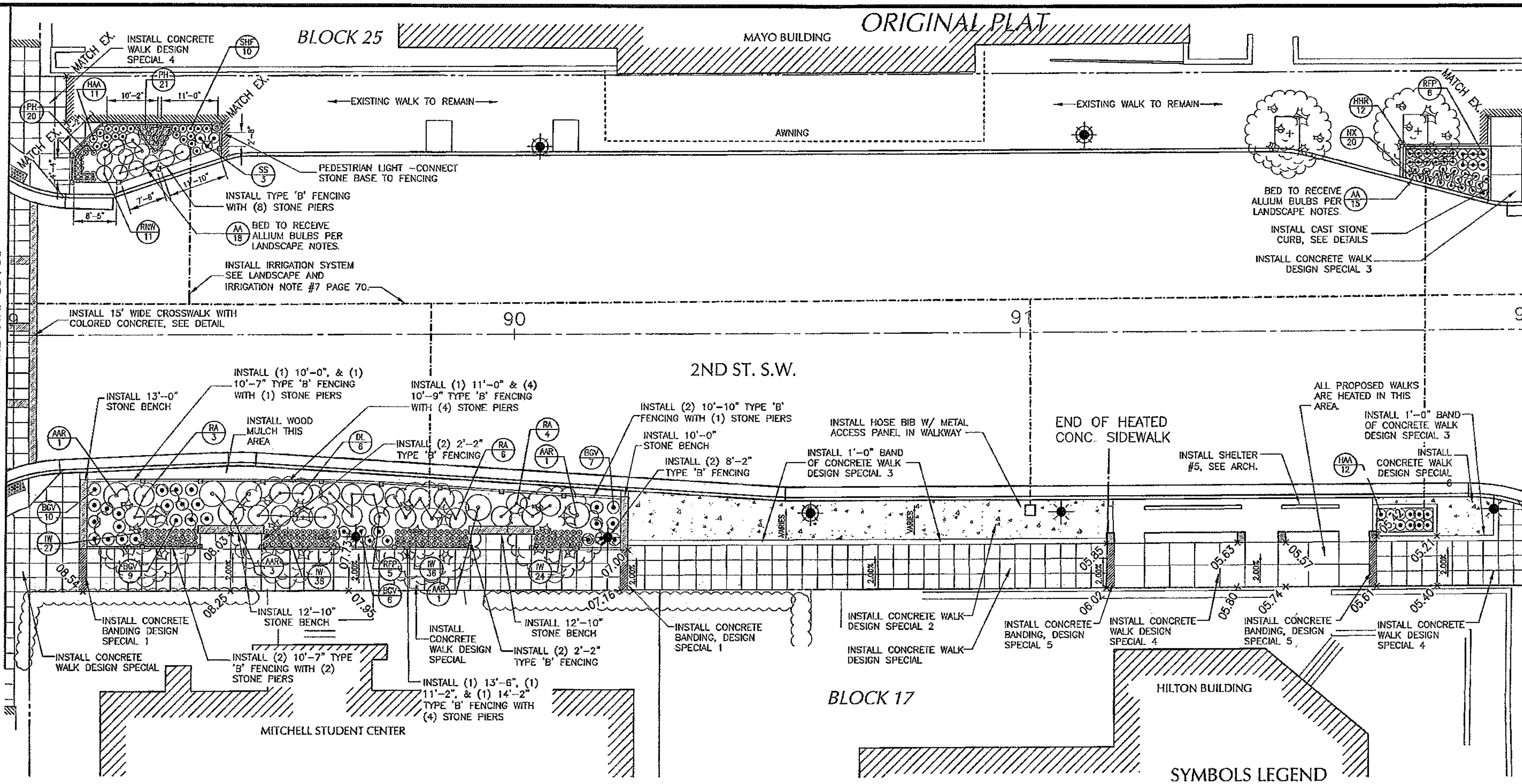
0 5 10 20
SCALE IN FEET

YAGGY COLBY ASSOCIATES
ENGINEERS ARCHITECTS SURVEYORS PLANNERS LANDSCAPE ARCHITECTS

CERTIFIED BY CRAIG M. RUHLAND
LIC. NO. 45845 4/3/09

TITLE: STREETSCAPING PLAN 2ND STREET S.W.
STA. 86+00 TO 89+00

S.P. 159-106-17 City Proj. No. J-7247/J-2094 Sheet No. 66 of 147 Sheets



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CONCRETE WALK TYPES

CONCRETE WALK DESIGN SPECIAL	COOL GRAY WITH SLATE TEXTURE
CONCRETE WALK DESIGN SPECIAL 1 (BANDS)	CHARCOAL GRAY WITH LIGHT BROOM FINISH
CONCRETE WALK DESIGN SPECIAL 2	FRENCH GRAY WITH VERMONT SLATE TEXTURE
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CONCRETE WALK DESIGN SPECIAL 4	COOL GRAY WITH SLATE TEXTURE (SNOWMELT)
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CONCRETE WALK DESIGN SPECIAL 6	FRENCH GRAY WITH VERMONT SLATE TEXTURE (SNOWMELT)

SYMBOLS LEGEND

- EXISTING TREES TO REMAIN
- PROPOSED DECIDUOUS TREE
- PROPOSED EVERGREEN SHRUB
- PROPOSED SHRUBS
- FURNISH & INSTALL HYDROSEED
- PLANT SYMBOL (SEE SCHEDULE) / QUANTITY, THIS LOCATION

NORTH

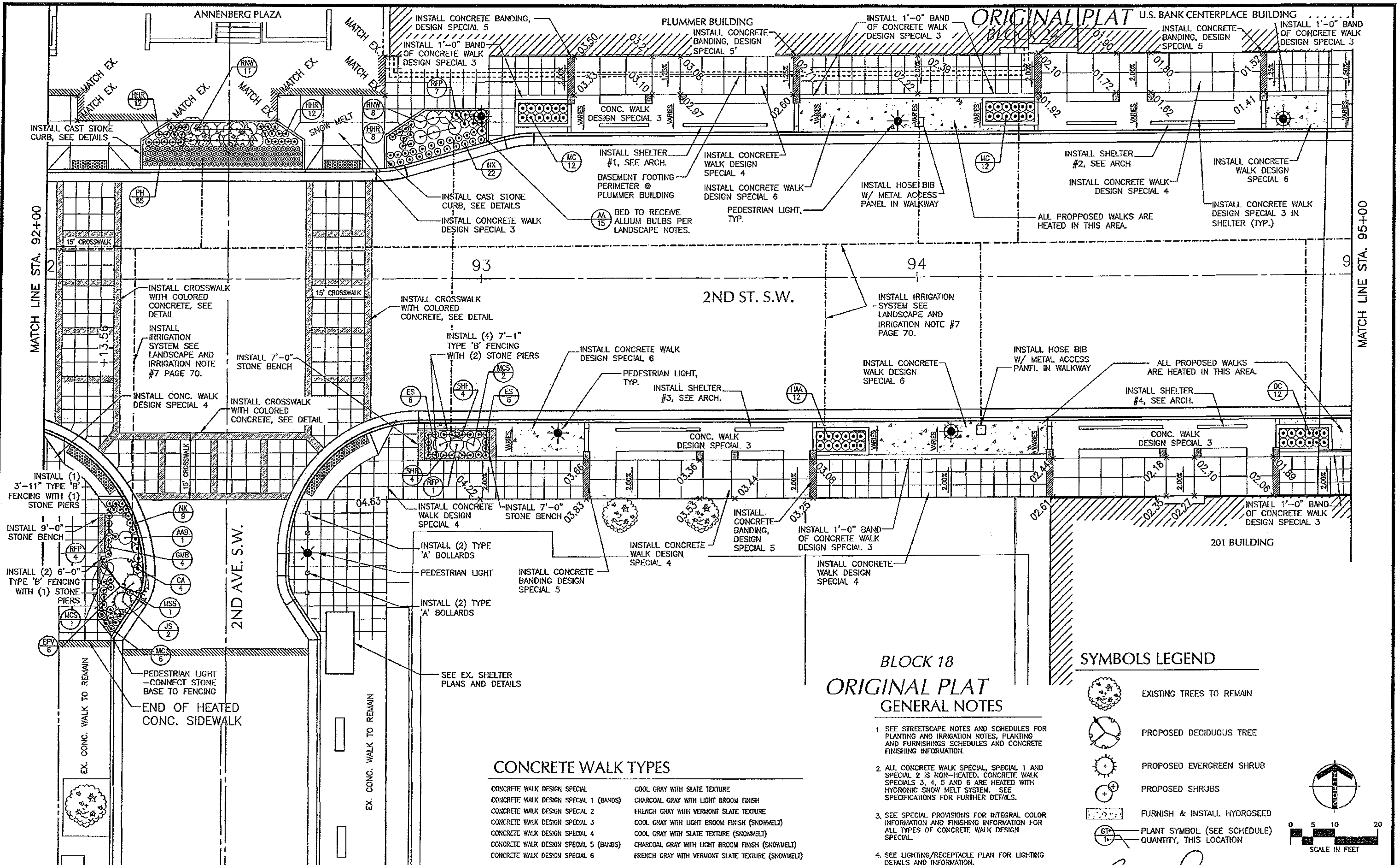
0 5 10 20
SCALE IN FEET

YAGGY COLBY ASSOCIATES — ENGINEERS, ARCHITECTS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS

CERTIFIED BY Craig M. Ruhland
LIC. NO. 45845 4/3/09

TITLE: STREETSCAPING PLAN
2ND STREET S.W.
STA. 89+00 TO 92+00

S.P. 159-106-17 | City Proj. No. J-7247/J-2094 | Sheet No. 67 of 147 Sheets



CONCRETE WALK TYPES

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SYMBOLS LEGEND

- EXISTING TREES TO REMAIN
- PROPOSED DECIDUOUS TREE
- PROPOSED EVERGREEN SHRUB
- PROPOSED SHRUBS
- FURNISH & INSTALL HYDROSEED
- PLANT SYMBOL (SEE SCHEDULE) / QUANTITY, THIS LOCATION

0 5 10 20
SCALE IN FEET

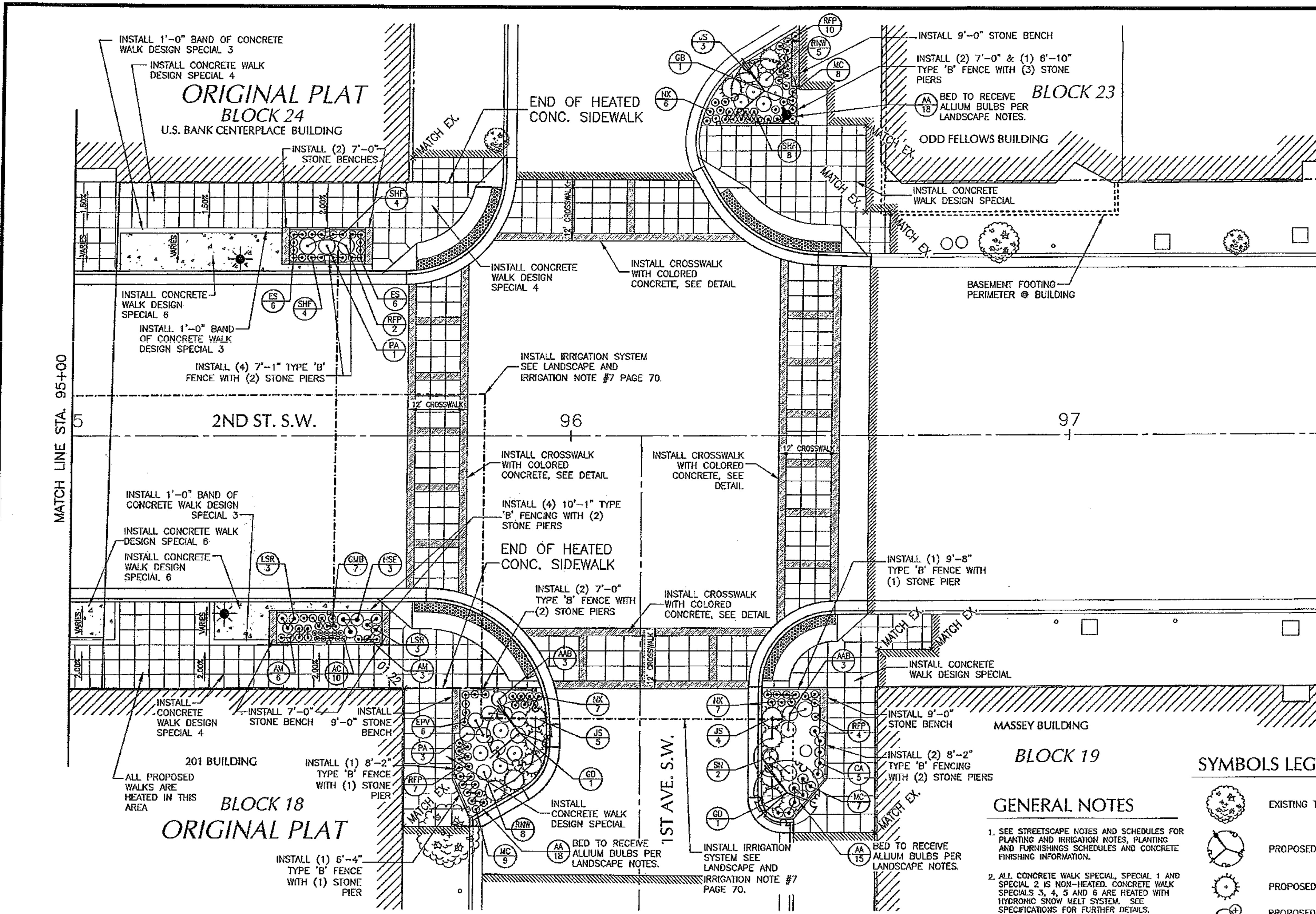
YAGGY COLBY ASSOCIATES — ENGINEERS, ARCHITECTS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS

CERTIFIED BY CRAIG M. RUHLAND
LIC. NO. 45845 4/3/09

TITLE: STREETSCAPING PLAN
2ND STREET S.W.
STA. 92+00 TO 95+00

S.P. 159-106-17 City Proj. No. J-7247/J-2094 Sheet No. 68 of 147 Sheets

Craig Ruhland I:\10481\Cad\Civil\Plans\68 STREETSCAPING PLAN Thursday, September 10, 2009 1:40:35 PM



SYMBOLS LEGEND

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- PROPOSED DECIDUOUS TREE
- PROPOSED EVERGREEN SHRUB
- PROPOSED SHRUBS
- FURNISH & INSTALL HYDROSEED
- GT / 1 — PLANT SYMBOL (SEE SCHEDULE) / QUANTITY, THIS LOCATION

NORTH

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SCALE IN FEET

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CONCRETE WALK TYPES

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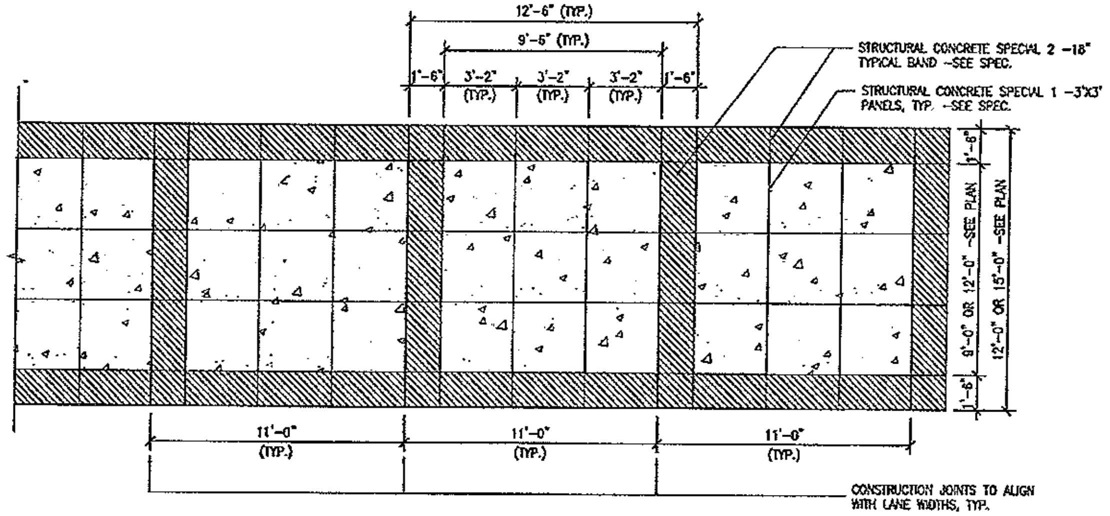
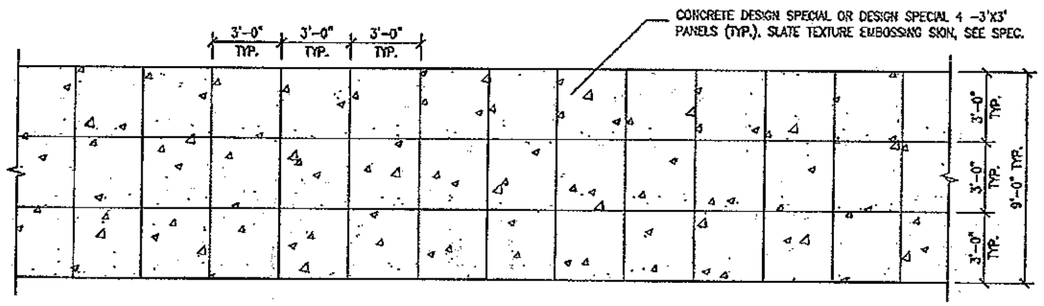
YAGGY COLBY ASSOCIATES
ENGINEERS ARCHITECTS SURVEYORS PLANNERS LANDSCAPE ARCHITECTS

CERTIFIED BY CRAIG M. RUHLAND
LIC. NO. 45845 4/3/09

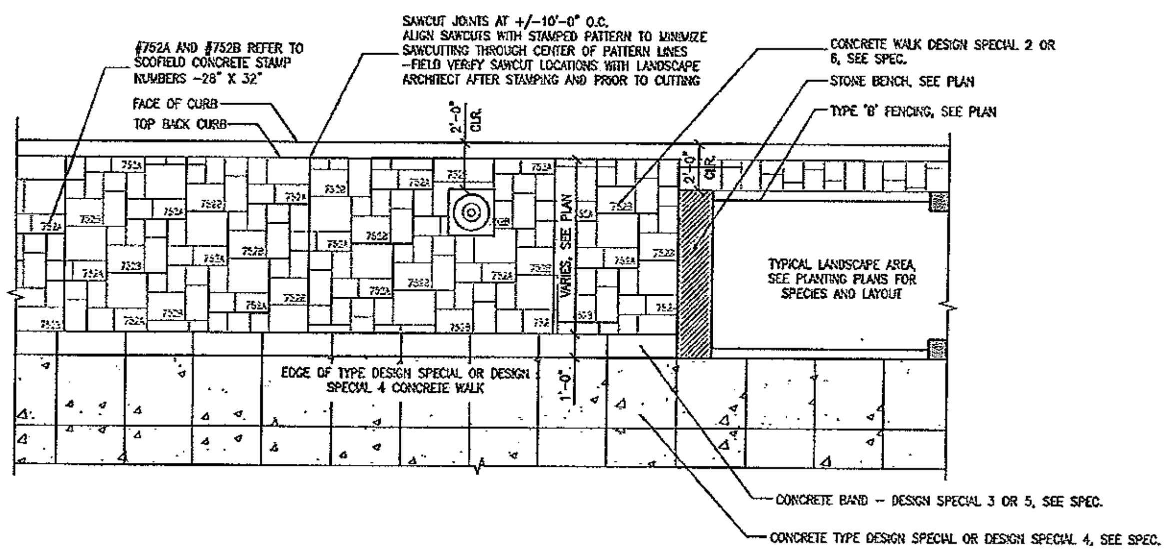
TITLE: STREETSCAPING PLAN 2ND STREET S.W.
STA. 95+00 TO E.O.P.



(1) TYPICAL CROSSWALK PLAN DETAIL
ORIGINAL SCALE: 1/4"=1'-0" 0' 1' 2' 4' 6' 8'



(2) TYPICAL SLATE TEXTURED SIDEWALK PLAN DETAIL
ORIGINAL SCALE: 1/4"=1'-0" 0' 1' 2' 4' 6' 8'



(3) TYPICAL SIDEWALK PLAN DETAIL
ORIGINAL SCALE: 1/4"=1'-0" 0' 1' 2' 4' 6' 8'

CAST STONE FINISH SCHEDULE

	SHEET NUMBER	TYPE 'A' FINISH*	TYPE 'B' FINISH*
STONE BENCHES			
BENCH CAP	74	●	
BENCH BASE	74		●
FENCE BOLLARDS TYPE 'A & B'			
BOLLARD	73		●
BOLLARD CAP	73	●	
PRECAST STONE CURB			
ALL PIECES	75	●	
PEDESTRIAN LIGHT BASES			
STONE CAP	71	●	
VENEER PIECES	71	●	

*NOTE -FOR FURTHER INFORMATION CONCERNING CAST STONE FINISHES, COLORS AND SURFACE TEXTURES SEE SPECIFICATION.

LANDSCAPE AND IRRIGATION NOTES

1. ALL LANDSCAPING MATERIAL SHALL COMPLY WITH STATE AND LOCAL CONSTRUCTION STANDARDS.
2. CONTRACTOR SHALL BE REQUIRED TO MAINTAIN PLANTINGS PER SPECIFICATIONS AND SHALL WARRANTY MATERIAL FOR A PERIOD NO LESS THAN ONE YEAR.
3. TURF AREA SHALL BE INSTALLED PER TURFGRASS SPECIFICATION. ALL TURFGRASS AREA SHALL RECEIVE 4" SELECT TOPSOIL BORROW PRIOR TO SODDING. CONTRACTOR TO SALVAGE EXISTING TOPSOIL ONSITE TO MAXIMUM EXTENT POSSIBLE.
4. SHRUB BEDS TO RECEIVE 2'-0" OF SELECT TOPSOIL BORROW AS PER SPECIFICATIONS
5. ALL PLANTING SOIL BELOW ROOT BALL SHALL BE COMPACTED AND THOROUGHLY WATERED PRIOR TO PLANTING.
6. INSTALLATION OF PLANT MATERIAL SHALL BE PERFORMED PER SPECIFICATIONS.
7. ALL PLANTED AREAS, INCLUDING SHRUB BEDS, RAISED PLANTERS SHALL RECEIVE 100% DRIP IRRIGATION COVERAGE. TURF AREAS SHALL NOT BE IRRIGATED. WATER SUPPLY, IRRIGATION CONTROLLER AND BACKFLOW PREVENTER SHALL BE LOCATED IN THE BOULEVARD ON THE NORTHWEST CORNER OF FOURTH AVE. AND SECOND STREET. IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO DESIGN, LAYOUT, COORDINATE, PROVIDE SHOP DRAWINGS AND FIELD VERIFY THE IRRIGATION SYSTEM TO MEET THE GENERAL DESIGN INTENT OF THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL SEE PLANS FOR EXACT LOCATION OF WATER SUPPLY AND REFER TO SPECIFICATIONS FOR FURTHER DETAILS ON IRRIGATION PERFORMANCE STANDARDS. THE IRRIGATION SUPPLY LINES SHOWN ON THE CONSTRUCTION DOCUMENTS ARE DIAGRAMATIC ONLY (FOR VISUAL CLARITY) AND ARE ACTUALLY TO BE LOCATED, WHERE POSSIBLE, <u>WITHIN THE BOULEVARD</u> AREA (NOT UNDER THE ROAD SURFACE) OF THE PROJECT.
8. LANDSCAPED AREAS ADJACENT TO THE BUS SHELTERS (RAISED PLANTER WALLS) SHALL BE UNDERDRAINED (SEE ARCH DRAWINGS) WITH A PERFORATED DRAIN TILE WITH SOCK AND BE TIED INTO NEAREST CATCH BASIN. THE CONTRACTOR SHALL COORDINATE THE PLACEMENT AND CONNECTION OF DRAIN TILE WITH UTILITY PLANS.
9. CONTRACTOR SHALL INSTALL STRUCTURAL SOILS AS SHOWN IN STREETSCAPING DETAILS FOR ALL SHADE TREES PLANTED IN THE LANDSCAPE MEDIAN. TREES PLANTED IN THE BOULEVARD, OR IN AREAS WHERE THERE IS A LANDSCAPE BED DO <u>NOT</u> NEED THE STRUCTURAL SOILS VOLUME AS INDICATED. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION AND PLACEMENT OF STRUCTURAL SOILS SO IT DOES NOT CONFLICT WITH EXISTING OR PROPOSED UTILITY WORK.
10. THE CONTRACTOR SHALL INSTALL METAL (ALUMINUM) EDGING AS INDICATED IN PLAN LOCATIONS. SEE SPECIFICATIONS FOR FURTHER INFORMATION IN REGARD TO APPROVED SIZE, COLOR, AND STAKING.
11. CLUSTER GROUPS OF 3 ALLIUM BULBS (8"-10" O.C.) IN SPECIFIED BEDS IN PLANS. WITHIN DESIGNATED BEDS, RANDOMLY PLACE GROUPS (OF 3) EVERY 5'-0" O.C. MAX. ONLY IN AREAS WHERE OTHER PERIENNIALS ARE PLANNTED. DO NOT PLACE ALLIUM CLUSTERS WITHIN AREAS WHERE WOODY PLANTS ARE DESIGNATED. PLANT BULBS 6" DEEP.

PLANT SCHEDULE*

KEY	COMMON NAME	BOTANICAL NAME	QTY.	SIZE	REMARKS
		DECIDUOUS TREES			
GB	AUTUMN GOLD	Ginkgo biloba	7	2-1/2" B&B	SPECIMEN QUALITY
UA	NEW HORIZON	Ulmus americana 'New Horizon'	17	2-1/2" B&B	SPECIMEN QUALITY
GD	KENTUCKY COFFEETREE	Gymnocladus dioica	5	2-1/2" B&B	SPECIMEN QUALITY
QM	BUR OAK	Quercus macrocarpa	7	2-1/2" B&B	SPECIMEN QUALITY
MSS	SPRING SNOW CRABAPPLE	Malus x 'Spring Snow'	1	2" B&B	SPECIMEN QUALITY
		DECIDUOUS & EVERGREEN SHRUBS			
AAB	BRILLIANT RED CHOKEBERRY	Aronia arbutifolia 'Brilliantissima'	21	5 GAL.	-
AAR	REGENT SASKATOON SERVICEBERRY	Amelanchier alnifolia 'Regent'	6	5 GAL.	-
RNW	NEARLY WILD	Rosa 'Nearly Wild'	46	5 GAL.	-
DL	DWARF BUSH HONEYSUCKLE	Diervilla lonicera	59	5 GAL.	-
RAG	GRO-LOW FRAGRANT SUMAC	Rhus aromatica 'Gro-Low'	10	5 GAL.	-
JS	CALGARY CARPET JUNIPER	Juniperus sabina 'Monna'	44	5 GAL.	-
RA	ALPINE CURRANT	Ribes alpinum	49	5 GAL.	-
BGV	GREEN VELVET BOXWOOD	Buxus 'Green Velvet'	32	5 GAL.	-
RFP	FOXY PAVEMENT ROSE	Rosa 'Foxy Pavement'	35	5 GAL.	-
		GRASSES			
SN	INDIAN GRASS	Sorghastrum nutans	2	1 GAL.	-
CB	FEATHER REED GRASS	Calamagrostis brachytricha	48	1 GAL.	-
MC	PURPLE MOOR GRASS	Molinia caerulea 'Moorhexe'	123	1 GAL.	-
MCS	SKYRACER MOOR GRASS	Molinia caerulea 'Skyracer'	13	1 GAL.	-
CA	FEATHER REED GRASS 'KARL FOERSTER'	Calamagrostis x acutiflora 'Karl Foerster'	9	1 GAL.	-
SS	LITTLE BLUESTEM 'THE BLUES'	Schizachyrium scoparium 'The Blues'	3	1 GAL.	-
		PERENNIALS			
NX	WALKERS LOW CATMINT	Nepeta x faassenii 'Walker's Low'	255	1 GAL.	-
HC	STELLA d' ORO DAYLILY	Hemerocallis 'Stella d' Oro'	29	1 GAL.	-
HHR	HAPPY RETURNS DAYLILY	Hemerocallis 'Happy Returns'	44	1 GAL.	-
HAA	ALWAYS AFTERNOON DAYLILY	Hemerocallis 'Always Afternoon'	35	1 GAL.	-
EPV	PURPLE CONEFLOWER 'VINTAGE WINE'	Echinacea purpurea 'Vintage Wine'	66	1 GAL.	-
CP	PRAIRIE COREOPSIS	Coreopsis palmata	11	1 GAL.	-
PA	RUSSIAN SAGE	Perovskia atriplicifolia	7	1 GAL.	-
RFP	BLACK-EYED SUSAN	Rudbeckia fulgida 'Pot of Gold'	63	1 GAL.	-
AM	LADY'S MANTLE	Alchemilla mollis	9	1 GAL.	-
HSE	ELEGANS HOSTA	Hosta sieboldiana 'Elegans'	49	1 GAL.	-
HVA	AUREOMARGINATA HOSTA	Hosta ventricosa 'Aureomarginata'	45	1 GAL.	-
SHF	AUTUMN JOY SEDUM	Sedum 'Herbstfreude'	7	1 GAL.	-
LSR	ROCKET LIGULARIA	Ligularia stenocephala 'The Rocket'	6	1 GAL.	-
AC	WILD GINGER	Asarum canadense	10	1 GAL.	-
OC	CINNAMON FERN	Osmunda cinnamomea	12	1 GAL.	-
GM	BIGROOT GERANIUM	Geranium macrorrhizum 'Bevan's Variety'	35	1 GAL.	-
ES	BIG SKY SUNRISE CONEFLOWER	Echinacea 'Sunrise'	24	1 GAL.	-
AA	PURPLE SENSATION ALLIUM	Allium aflatunense 'Purple sensation'	219	1 GAL.	PLANT IN CLUSTERS OF THREE
		ANNUALS			
PH	EASY WAVE BLUE PETUNIA	Petunia x hybrid	96	1 GAL.	-
IW	SUPER-ELFIN XP MIX FORMULA IMPATIENTS	Impatiens walleriana	123	1 GAL.	-

FURNISHINGS SCHEDULE

KEY	ELEMENT NAME	MANUFACTURER & MODEL NUMBER	MATERIAL/FINISH COLOR	QUANTITY	SIZE
		TRASH RECEPTACLE			
THC	TRASH CANS	SEE SPEC.	PAINTED METAL, SEE SPEC.	6	SEE SPEC.
RTC	RECYCLING TRASH CAN	SEE SPEC.	PAINTED METAL, SEE SPEC.	5	SEE SPEC.

CONCRETE WALK TYPES

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