

CITY OF ROCHESTER, NEW YORK
 DEPARTMENT OF ENVIRONMENTAL SERVICES



STREET IMPROVEMENT PROGRAM
**PORTLAND AVENUE
 REVITALIZATION**

FROM LUX STREET TO
 NORTON STREET

PROJECT LENGTH 2,750 FEET
 PC 14105

PORTLAND AVE
 REVITALIZATION
 PC 14105

BIDSET
 2/6/2015

TERRENCE J. RICE, P.E.
 DIRECTOR OF TRANSPORTATION
 MONROE COUNTY
 DEPARTMENT OF TRANSPORTATION

DATE

NORMAN H. JONES
 COMMISSIONER
 DEPARTMENT OF ENVIRONMENTAL SERVICES
 CITY OF ROCHESTER

DATE

JAMES R. McINTOSH, P.E.
 CITY ENGINEER
 CITY OF ROCHESTER

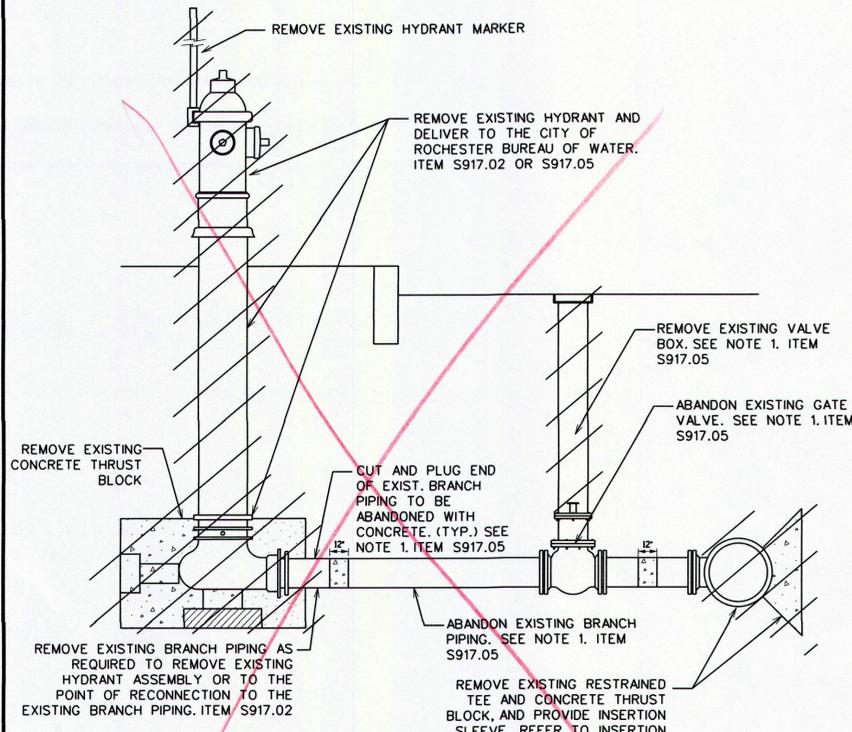
DATE

ROBERT L. MORRISON
 DIRECTOR OF WATER
 CITY OF ROCHESTER

DATE

Revised 2/26/15 G06

PLOTTED: \$DATE\$
 BY: \$USER\$
 FILE: \$FILES\$



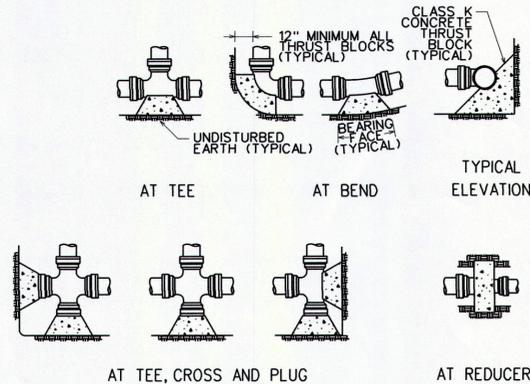
- NOTES:
1. NOT REQUIRED FOR HYDRANT AT EXISTING BRANCH.
 2. ITEM S906.0106, ITEM S906.0108, OR ITEM S906.0110

EXISTING HYDRANT ASSEMBLY REMOVAL DETAIL

NOT TO SCALE

AREA OF BEARING FACE OF THRUST BLOCK IN SQUARE FEET (AREA BASED ON INTERNAL PRESSURE OF 150 PSIG AND SOIL BEARING PRESSURE OF 2000 PSF) (SEE NOTE 1)

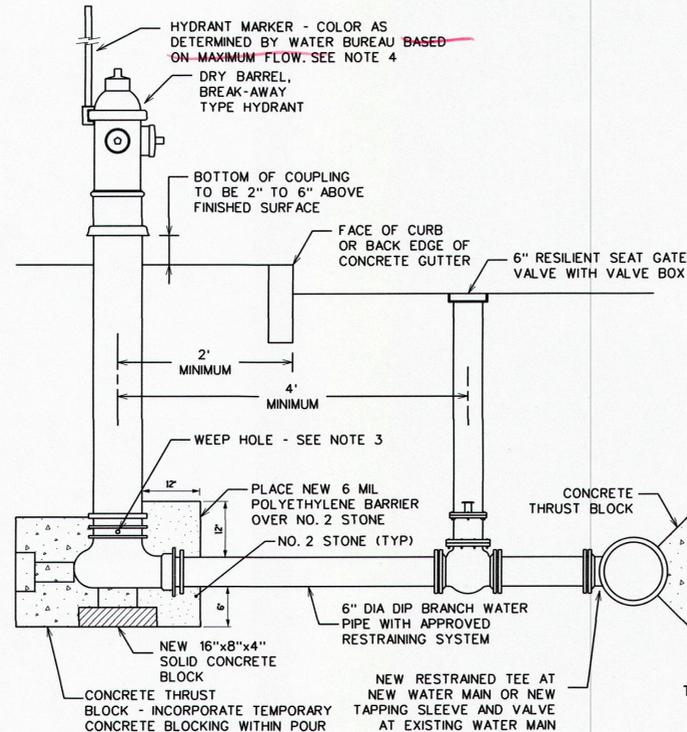
PIPE SIZE	BEND				TEE PLUG	REDUCER	
	90°	45°	22-1/2°	11-1/4°		SIZE	AREA
4" - 6"	4	2.5	1.5	1	3	6" x 4"	2
8"	7	4	2	1	5	8" x 6"	2.5
12"	14.5	8	4	2	10.5	12" x 8"	5.5



HORIZONTAL THRUST BLOCK DETAIL

NOT TO SCALE

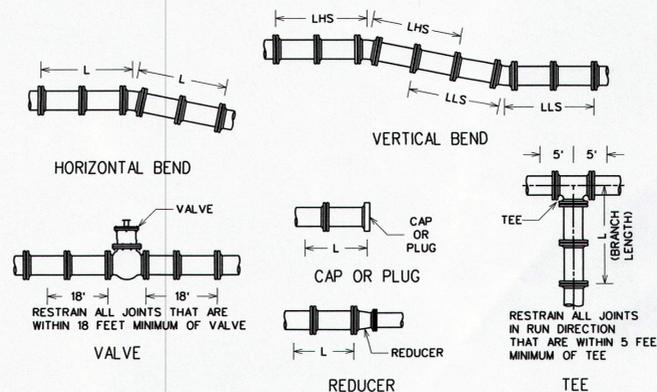
- NOTES:
1. SPECIAL DESIGN IS REQUIRED FOR FITTINGS ON DOMESTIC WATER MAIN PIPE LARGER THAN 12 INCHES.
 2. THRUST BLOCK IS TO BE POURED AGAINST UNDISTURBED EARTH. WIDTH OF THRUST BLOCK SHOULD BE APPROXIMATELY TWICE HEIGHT.
 3. THRUST BLOCK IS TO BE INSTALLED AT ALL BENDS, PLUGS, TEES, AND TAPPING SLEEVE AND VALVE CONNECTIONS.
 4. FACTORY CAST OFFSETS ARE TO BE TREATED AS TWO 45 DEGREE BENDS.
 5. FOR REDUCERS, THRUST BLOCK IS TO BE KEYED INTO WALLS AND BOTTOM OF TRENCH.
 6. MECHANICAL RESTRAINT IS REQUIRED IN ADDITION TO THRUST BLOCK. REFER TO DETAIL THIS DWG.
 7. WOOD BLOCKING IS NOT PERMITTED.
 8. BASED ON CITY OF ROCHESTER STANDARD DWG NO.S900-4



- NOTES:
1. PUMPER CONNECTION IS TO FACE PAVEMENT.
 2. MECHANICAL JOINT OFFSET OR HYDRANT EXTENSION KIT CAN BE USED TO SET HYDRANT AT PROPER ELEVATION.
 3. WHEN GROUND WATER IS ENCOUNTERED WITHIN 7 FT OF EXISTING GRADE, HYDRANT WEEP HOLES SHALL BE PLUGGED. CONTRACTOR IS TO NOTIFY THE OWNER IN WRITING WHEN WEEP HOLES HAVE BEEN PLUGGED.
 4. HYDRANT MARKERS TO BE FURNISHED BY THE OWNER AND INSTALLED BY CONTRACTOR.
 5. CONFIRM FINAL LOCATION OF HYDRANT WITH OWNER IN THE FIELD.
 6. BASED ON THE CITY OF ROCHESTER STANDARD DRAWING NO R917-1.

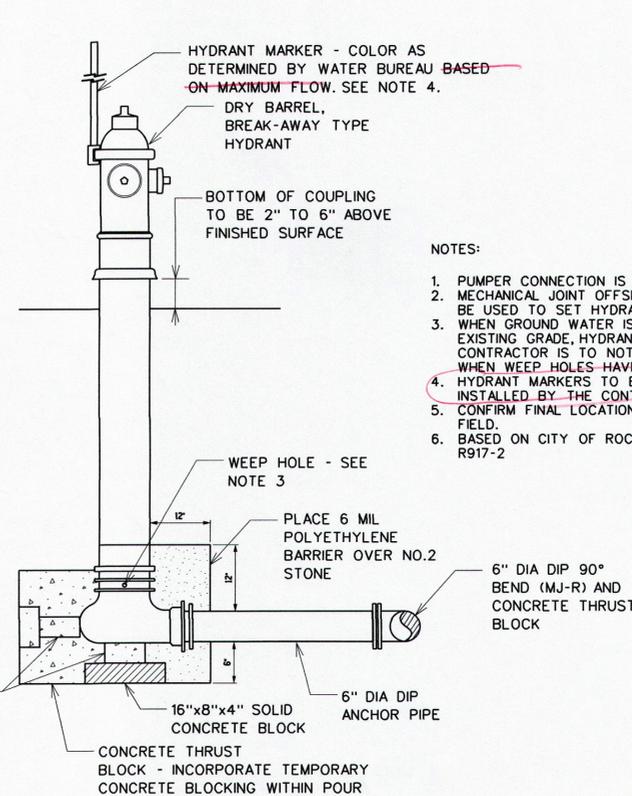
HYDRANT AND VALVE AT NEW BRANCH DETAIL

NOT TO SCALE



WATER MAIN PIPE RESTRAINT DETAIL

NOT TO SCALE



- NOTES:
1. PUMPER CONNECTION IS TO FACE PAVEMENT.
 2. MECHANICAL JOINT OFFSET OR HYDRANT EXTENSION KIT CAN BE USED TO SET HYDRANT AT PROPER ELEVATION.
 3. WHEN GROUND WATER IS ENCOUNTERED WITHIN 7 FEET OF EXISTING GRADE, HYDRANT WEEP HOLES SHALL BE PLUGGED. CONTRACTOR IS TO NOTIFY THE OWNER IN WRITING WHEN WEEP HOLES HAVE BEEN PLUGGED.
 4. HYDRANT MARKERS TO BE FURNISHED BY THE OWNER AND INSTALLED BY THE CONTRACTOR.
 5. CONFIRM FINAL LOCATION OF HYDRANT WITH OWNER IN THE FIELD.
 6. BASED ON CITY OF ROCHESTER STANDARD DRAWING NO. R917-2

HYDRANT AT EXISTING BRANCH DETAIL

NOT TO SCALE

MINIMUM RESTRAINED LENGTH FOR WATER MAIN PIPE ADJACENT TO FITTINGS (IN FEET) (BASED ON INTERNAL PRESSURE OF 150 PSI) (SEE NOTE 1)

PIPE SIZE (INCHES)	MINIMUM LENGTH *	90°	45°	22-1/2°	11-1/4°	REDUCER	TEE	CAP PLUG
4" - 6"	LHS	16	7	3	2	29	16	56
	LHS	49	24	12	6	---	---	---
	LLS	16	6	3	2	---	---	---
8"	L	20	9	4	2	31	33	74
	LHS	64	31	15	8	---	---	---
	LLS	20	8	4	2	---	---	---
12"	L	28	12	6	3	56	64	105
	LHS	91	44	21	11	---	---	---
	LLS	28	11	5	3	---	---	---

* L - HORIZONTAL LENGTH
LHS - VERTICAL HIGH SIDE LENGTH
LLS - VERTICAL LOW SIDE LENGTH

- NOTES:
1. SPECIAL DESIGN IS REQUIRED FOR FITTINGS ON DOMESTIC WATER MAIN PIPE LARGER THAN 12 INCHES AND FOR REDUCERS HAVING MORE THAN ONE PIPE SIZE DIFFERENCE.
 2. CONCRETE THRUST BLOCK IS TO BE USED IN ADDITION TO MECHANICAL RESTRAINT DEVICES, REFER TO HORIZONTAL THRUST BLOCK DETAIL THIS DWG.
 3. ALL PLASTIC AND POLYETHYLENE WRAPPED DUCTILE IRON DOMESTIC WATER MAIN PIPE AND FITTING JOINTS WITHIN L-LHS-LLS DIMENSIONS MUST BE RESTRAINED USING APPROVED MECHANICAL RESTRAINT DEVICE.
 4. ASSUMPTION: SP SOILS, 4.50 FEET COVER, AND TYPE 4 LAYING CONDITION.
 5. BASED ON CITY OF ROCHESTER STANDARD DWG NO.S900-7

DATE:	JAN. 2015
SCALE:	AS NOTED
DESIGNED BY:	PGW/CJL
DRAWN BY:	KLO/MD2
NO.	
DATE	
DESCRIPTION	

CITY OF ROCHESTER, NEW YORK
PORTLAND AVENUE REVITALIZATION



COPYRIGHT © 2014
WENDEL
NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 2706 SUBDIVISION 2 OF THE NEW YORK STATE ENGINEERING LAW. ANY ALTERATIONS SHALL BE ACCOMPANIED BY THE SIGNATURE OF THE ENGINEER AND SURVEYOR OF THE ORIGINAL ARCHITECT/ENGINEER OR LANDSCAPE ARCHITECT/ENGINEER. ANY ALTERATION SHALL BE FOLLOWED BY A DESCRIPTION OF THE ALTERATIONS MADE.



100 Chestnut Street, Suite 1110
Rochester, NY 14604
www.wendelcompanies.com
Wendel WD Architecture, Engineering, Surveying and Landscape Architecture P.C.

DRAWING NO.
CD-3
SHEET 12 OF 44
WENDEL JOB NUMBER
22134062

**CITY OF ROCHESTER
WATER SERVICE INSTALLATION DATA**

PROPERTY ADDRESS: _____

STREET SERVICE TAPPED ON (IF DIFFERENT): _____

DATE OF INSTALLATION: _____ DOMESTIC OR HOLLY SYSTEM? _____

TAP SIZE: _____ DISTANCE, MAIN TO ROW LINE: _____ SIDE OF ST. TAPPED: _____

CURB STOP/VALVE SIZE: _____ SERVICE LENGTH: _____ SERVICE MATERIAL: _____

CONTRACTOR/PLUMBER: _____

TAP INSTALLED BY: _____ INSPECTOR: _____

CURB OR OPERATING VALVE LOCATION #: _____

TAP OR GUARD VALVE LOCATION (IF DIFFERENT): _____

INSULATOR INSTALLED? _____ IF YES, WHERE: TAP _____ CURB STOP _____

ANODE INSTALLED? _____ IF YES, SIZE: _____ LBS., ATTACHED TO: TAP _____, SERVICE _____, MAIN _____

INSIDE SERVICE MATERIAL & SIZE: _____

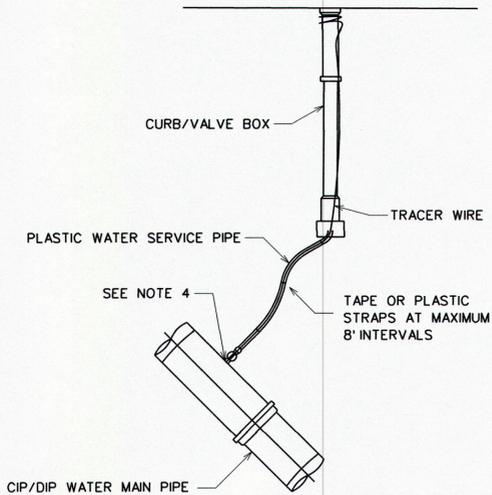
* MEASURED FROM ROW OF NEAREST INTERSECTING STREET OR HYDRANT, WHICHEVER IS CLOSER OCT. 2013

NOTES:

1. WATER SERVICE CARD WILL BE SUPPLIED BY THE OWNER. REQUIRED INFORMATION IS TO BE TYPED OR NEATLY PRINTED ON WATER SERVICE CARD.
2. WATER SERVICE CARD FOR WATER SERVICE THAT IS ABANDONED AT TAP IS TO BE MARKED "ABANDONED AT TAP" ACROSS FACE OF WATER SERVICE CARD WITH CONTRACTOR'S NAME AND DATE ABANDONED BEING NOTED.
3. MEASUREMENT FOR LOCATION OF CURB STOP IS TO BE TAKEN FROM RIGHT-OF-WAY EXTENSION OF NEAREST INTERSECTING STREET AS MEASURED PARALLEL TO STREET ON WHICH WATER SERVICE IS INSTALLED, OR FROM NEAREST HYDRANT LOCATED OFF OF SAME WATER MAIN, WHICHEVER IS CLOSER (SEE NOTE 4 FOR EXCEPTION). WHENEVER POSSIBLE, MEASUREMENTS SHOULD BE LESS THAN 300 FEET.
4. IF NEAREST INTERSECTING STREET RIGHT-OF-WAY EXTENSION IS NOT PERPENDICULAR TO THE STREET RIGHT-OF-WAY ON WHICH THE CURB STOP IS LOCATED, THE CURB STOP MEASUREMENT SHOULD BE TAKEN FROM THE NEAREST HYDRANT ATTACHED TO THE WATER MAIN WHICH THE WATER SERVICE IS CONNECTED TO. IF SUCH HYDRANT IS NOT AVAILABLE, THEN ANOTHER PERMANENT FEATURE, PRE-APPROVED BY THE OWNER, SHALL BE USED FOR THE CURB STOP MEASUREMENT.
5. MEASUREMENTS ARE TO BE ENTERED IN TENTHS OF FEET. DO NOT USE INCHES. ROUNDING TO THE NEAREST 0.5 FEET IS ACCEPTABLE.
6. IF SERVICE IS INSTALLED WITH HORIZONTAL BEND, DRAW A SKETCH ON THE BACK OF THE CARD SHOWING THE LOCATIONS OF THE MAIN, CORPORATION, SERVICE AND CURB STOP. THE DISTANCE BETWEEN THE BEND AND CURB STOP AND OFFSET DIMENSIONS BETWEEN THE BEND AND THE CORPORATION AND THE CURB STOP MUST BE SHOWN IN THE SKETCH.
7. WATER SERVICE CARDS SHALL BE COMPLETED FOR EACH NEW SERVICE, EXISTING SERVICE THAT IS REPLACED, AND EXISTING SERVICE THAT IS ABANDONED.

WATER SERVICE CARD DETAIL

NOT TO SCALE

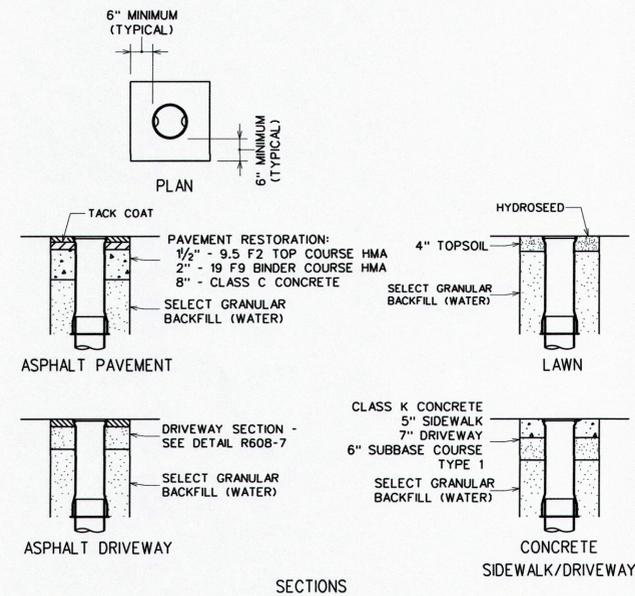


NOTES:

1. FOR OPEN CUT INSTALLATION, TRACER WIRE IS TO BE #12 AWG SOLID COPPER WITH 30 MIL BLUE HMWPE INSULATION. FOR TRENCHLESS INSTALLATION, TRACER WIRE IS TO BE #12 AWG SOLID COPPER CLAD STEEL CORE WITH 45 MIL BLUE HDPE INSULATION.
2. FOR NEW PLASTIC WATER SERVICE PIPE, WATER SERVICE TRACER WIRE IS TO BE EXTENDED UP TO TOP OF CURB/VALVE BOX. WATER SERVICE TRACER WIRE IS TO RUN ALONG TOP OF AND BE SECURED TO PLASTIC WATER SERVICE PIPE WITH PLASTIC STRAPS OR TAPE PLACED AT MAXIMUM 8 FEET INTERVALS.
3. FOR CURB/VALVE BOX IN LAWN AREA, EXTEND WATER SERVICE TRACER WIRE UP OUTSIDE OF CURB/VALVE BOX WINDING END 3 TIMES AROUND AND APPROXIMATELY 1 INCH BELOW TOP OF CURB/VALVE BOX. FOR CURB/VALVE BOX IN PAVED AREA, EXTEND WATER SERVICE TRACER WIRE UP INSIDE OF CURB/VALVE BOX LEAVING MINIMUM OF 3 FEET OF WATER SERVICE TRACER WIRE COILED UP INSIDE TOP OF CURB/VALVE BOX.
4. FOR NEW PLASTIC WATER SERVICE PIPE CONNECTED TO CAST/DUCTILE IRON WATER MAIN PIPE, WATER SERVICE TRACER WIRE IS TO BE CONNECTED TO CORPORATION STOP WITH BRASS THAW WIRE NUT COMPRESSION ASSEMBLY WITH SET SCREW.
5. BASED ON THE CITY OF ROCHESTER STANDARD DRAWING NO. 901-9

PLASTIC WATER SERVICE TRACER WIRE DETAIL

NOT TO SCALE



NOTES:

1. ADJUST EXISTING WATER VALVE BOX AND COVER, OR INSTALL NEW WATER VALVE BOX AND COVER, SET TOP TO GRADE.
2. IF ADJUSTING EXISTING WATER VALVE BOX AND COVER, EXISTING FLANGE IS TO REMAIN, DO NOT REMOVE.

WATER VALVE BOX ADJUSTMENT OR REPLACEMENT DETAIL

NOT TO SCALE

DATE:	JAN. 2015
SCALE:	
DESIGNED BY:	PGW/CJL
DRAWN BY:	KLO/MD2
NO.	
DATE	
DESCRIPTION	

**CITY OF ROCHESTER, NEW YORK
PORTLAND AVENUE REVITALIZATION
CONSTRUCTION DETAILS**



COPYRIGHT © 2014 WENDEL

NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 24-201 OF THE CITY OF ROCHESTER CHARTER OR STATE EDUCATION LAW, ANY ALTERATIONS SHALL BE ACCOMPANIED BY A PROFESSIONAL SEAL OF A LICENSED ENGINEER, LAND SURVEYOR, ARCHITECT, OR LANDSCAPE ARCHITECT. MAKING SAID ALTERATIONS WITHOUT ANY PROFESSIONAL SEAL SHALL BE FOLLOWED BY A DESCRIPTION OF THE ALTERATIONS MADE.



100 Chestnut Street, Suite 1110
Rochester, NY 14604
www.wendelcompanies.com

Wendel WD Architecture, Engineering, Surveying and Landscape Architecture P.C.

DRAWING NO.

CD-4

SHEET 13 OF 44

WENDEL JOB NUMBER

22134062

WATER SERVICES TABLE											
CENTERLINE STATION AND OFFSET	ADDRESS	EXISTING SERVICE			DIRECTION OF OFFSET FROM EXIST TAP	DISPOSITION	PROPOSED WATER SERVICE			DEPTH OF EXISTING WATER MAIN AT TAP LOCATION (APPROXIMATE)	ITEM NO.
		SIZE	MATERIAL	STATUS			SIZE	MATERIAL	LENGTH		
81 + 61 LT *	957 PORTLAND AVE	5/8"	LEAD	ACTIVE	SOUTH	REMOVE AND PLUG EXISTING SERVICE AT TAP. PROVIDE NEW SERVICE TAP, WATER SERVICE, CURB STOP, AND BOX. PROVIDE 32# ANODE ON WATER MAIN.	3/4"	COPPER	15	4.5 - 5 FT	S912.090075, S913.030075, S914.030075, S966.0332
81 + 81 RT *	964 PORTLAND AVE	1/2"	LEAD	ACTIVE	SOUTH	REMOVE AND PLUG EXISTING SERVICE AT TAP. PROVIDE NEW SERVICE TAP, WATER SERVICE, CURB STOP, AND BOX. PROVIDE 32# ANODE ON WATER MAIN.	3/4"	COPPER	35	4.5 - 5 FT	S912.090075, S913.030075, S914.030075, S966.0332
82 + 02 LT	971 PORTLAND AVE	5/8"	LEAD	RUN	N/A	ABANDON AT TAP, PROVIDE 32# ANODE	N/A			4.5 - 5 FT	S912.06, S966.0332
82 + 19 RT	968 PORTLAND AVE	5/8"	LEAD	ACTIVE	SOUTH	REMOVE AND PLUG EXISTING SERVICE AT TAP. PROVIDE NEW SERVICE TAP, WATER SERVICE, CURB STOP, AND BOX. PROVIDE 32# ANODE ON WATER MAIN.	3/4"	COPPER	34	4.5 - 5 FT	S912.090075, S913.030075, S914.030075, S966.0332
82 + 51 LT	973-975 PORTLAND AVE	5/8"	GALVANIZED	ACTIVE	NORTH	REMOVE AND PLUG EXISTING SERVICE AT TAP. PROVIDE NEW SERVICE TAP, WATER SERVICE, CURB STOP, AND BOX. PROVIDE 32# ANODE ON WATER MAIN.	3/4"	COPPER	18	4.5 - 5 FT	S912.090075, S913.030075, S914.030075, S966.0332
83 + 02 LT	983 PORTLAND AVE	1/2"	LEAD	ACTIVE	NORTH	REMOVE AND PLUG EXISTING SERVICE AT TAP. PROVIDE NEW SERVICE TAP, WATER SERVICE, CURB STOP, AND BOX. PROVIDE 32# ANODE ON WATER MAIN.	3/4"	COPPER	18	4.7 - 5 FT	S912.090075, S913.030075, S914.030075, S966.0332
83 + 47 LT	997 PORTLAND AVE	1/2"	LEAD	RUN	N/A	ABANDON AT TAP, PROVIDE 32# ANODE	N/A			4.7 - 5 FT	S912.06, S966.0332
83 + 57 RT	982-986 PORTLAND AVE	5/8"	LEAD	RUN	N/A	ABANDON AT TAP, PROVIDE 32# ANODE	N/A			4.7 - 5 FT	S912.06, S966.0332
84 + 08 RT *	996 PORTLAND AVE	1/2"	LEAD	ACTIVE	SOUTH	REMOVE AND PLUG EXISTING SERVICE AT TAP. PROVIDE NEW SERVICE TAP, WATER SERVICE, CURB STOP, AND BOX. PROVIDE 32# ANODE ON WATER MAIN.	1"	PE	34	4.7 - 5 FT	S912.090100, S913.160100, S914.030100, S966.0332
84 + 42 RT	998-1002 PORTLAND AVE	1/2"	GALVANIZED	ACTIVE	NORTH	REMOVE AND PLUG EXISTING SERVICE AT TAP. PROVIDE NEW SERVICE TAP, WATER SERVICE, CURB STOP, AND BOX. PROVIDE 32# ANODE ON WATER MAIN.	1"	PE	35	4.7 - 5 FT	S912.090100, S913.160100, S914.030100, S966.0332
84 + 81 LT	1001-1005 PORTLAND AVE	1/2"	LEAD	ACTIVE	SOUTH	REMOVE AND PLUG EXISTING SERVICE AT TAP. PROVIDE NEW SERVICE TAP, WATER SERVICE, CURB STOP, AND BOX. PROVIDE 32# ANODE ON WATER MAIN.	1"	PE	16	4.7 - 5 FT	S912.090100, S913.160100, S914.030100, S966.0332
84 + 88 RT *	1004 PORTLAND AVE	1/2"	LEAD	ACTIVE	NORTH	REMOVE AND PLUG EXISTING SERVICE AT TAP. PROVIDE NEW SERVICE TAP, WATER SERVICE, CURB STOP, AND BOX. PROVIDE 32# ANODE ON WATER MAIN.	1"	PE	35	4.7 - 5 FT	S912.090100, S913.160100, S914.030100, S966.0332
85 + 15 LT	1009 PORTLAND AVE	1/2"	LEAD	RUN	N/A	ABANDON AT TAP, PROVIDE 32# ANODE	N/A			4.7 - 5 FT	S912.06, S966.0332
85 + 22 RT	1010 PORTLAND AVE	1/2"	LEAD	ACTIVE	NORTH	REMOVE AND PLUG EXISTING SERVICE AT TAP. PROVIDE NEW SERVICE TAP, WATER SERVICE, CURB STOP, AND BOX. PROVIDE 32# ANODE ON WATER MAIN.	1"	PE	35	4.7 - 5 FT	S912.090100, S913.160100, S914.030100, S966.0332
85 + 64 RT	1014 PORTLAND AVE	1/2"	LEAD	ACTIVE	NORTH	REMOVE AND PLUG EXISTING SERVICE AT TAP. PROVIDE NEW SERVICE TAP, WATER SERVICE, CURB STOP, AND BOX. PROVIDE 32# ANODE ON WATER MAIN.	1"	PE	37	4.7 - 5 FT	S912.090100, S913.160100, S914.030100, S966.0332
85 + 66 LT	1013-1015 PORTLAND AVE	1/2"	LEAD	ACTIVE	NORTH	REMOVE AND PLUG EXISTING SERVICE AT TAP. PROVIDE NEW SERVICE TAP, WATER SERVICE, CURB STOP, AND BOX. PROVIDE 32# ANODE ON WATER MAIN.	1"	PE	22	4.7 - 5 FT	S912.090100, S913.160100, S914.030100, S966.0332
86 + 02 LT	1025-1027 PORTLAND AVE	1/2"	LEAD	ACTIVE	NORTH	REMOVE AND PLUG EXISTING SERVICE AT TAP. PROVIDE NEW SERVICE TAP, WATER SERVICE, CURB STOP, AND BOX. PROVIDE 32# ANODE ON WATER MAIN.	1"	PE	19	4.7 - 5 FT	S912.090100, S913.160100, S914.030100, S966.0332
86 + 12 RT	1020 PORTLAND AVE	5/8"	COPPER	ACTIVE	N/A	NO WORK	N/A			4.7 - 5 FT	N/A
86 + 37 LT	1027-A PORTLAND AVE	1/2"	LEAD	RUN	N/A	ABANDON AT TAP, PROVIDE 32# ANODE	N/A			4.7 - 5 FT	S912.06, S966.0332
87 + 03 LT	1029-1033 PORTLAND AVE	3/4"	LEAD	ACTIVE	SOUTH	REMOVE AND PLUG EXISTING SERVICE AT TAP. PROVIDE NEW SERVICE TAP, WATER SERVICE, CURB STOP, AND BOX. PROVIDE 32# ANODE ON WATER MAIN.	1"	PE	19	4.7 - 5 FT	S912.090100, S913.160100, S914.030100, S966.0332
87 + 06 LT	1037 PORTLAND AVE	1/2"	LEAD	RUN	N/A	ABANDON AT TAP, PROVIDE 32# ANODE	N/A			4.7 - 5 FT	S912.06, S966.0332
87 + 63 RT	1036 PORTLAND AVE	5/8"	LEAD	RUN	N/A	ABANDON AT TAP, PROVIDE 32# ANODE	N/A			4.7 - 5 FT	S912.06, S966.0332
87 + 75 RT	1040 PORTLAND AVE	5/8"	LEAD	ACTIVE	NORTH	REMOVE AND PLUG EXISTING SERVICE AT TAP. PROVIDE NEW SERVICE TAP, WATER SERVICE, CURB STOP, AND BOX. PROVIDE 32# ANODE ON WATER MAIN.	1"	PE	12	4.7 - 5 FT	S912.090100, S913.160100, S914.030100, S966.0332
88 + 05 RT	1040-A PORTLAND AVE	1/2"	LEAD	RUN	N/A	ABANDON AT TAP, PROVIDE 32# ANODE	N/A			4.7 - 5 FT	S912.06, S966.0332
88 + 05 LT	1055-1057 PORTLAND AVE	1/2"	LEAD	ACTIVE	NORTH	REMOVE AND PLUG EXISTING SERVICE AT TAP. PROVIDE NEW SERVICE TAP, WATER SERVICE, CURB STOP, AND BOX. PROVIDE 32# ANODE ON WATER MAIN.	1"	PE	37	4.7 - 5 FT	S912.090100, S913.160100, S914.030100, S966.0332
89 + 32 RT	1056 PORTLAND AVE	1/2"	LEAD	ACTIVE	SOUTH	REMOVE AND PLUG EXISTING SERVICE AT TAP. PROVIDE NEW SERVICE TAP, WATER SERVICE, CURB STOP, AND BOX. PROVIDE 32# ANODE ON WATER MAIN.	1"	PE	15	4.7 - 5 FT	S912.090100, S913.160100, S914.030100, S966.0332
88 + 47 LT *	1059 PORTLAND AVE	1/2"	LEAD	ACTIVE	NORTH	REMOVE AND PLUG EXISTING SERVICE AT TAP. PROVIDE NEW SERVICE TAP, WATER SERVICE, CURB STOP, AND BOX. PROVIDE 32# ANODE ON WATER MAIN.	1"	PE	37	4.7 - 5 FT	S912.090100, S913.160100, S914.030100, S966.0332
88 + 90 LT	1063 PORTLAND AVE	3/4"	COPPER	ACTIVE	N/A	NO WORK	N/A			4.7 - 5 FT	N/A

* CONTRACTOR IS DIRECTED TO INSTALL NEW WATER SERVICE VIA TUNNELING METHOD TO AVOID DAMAGE TO EXISTING TREES.

ITEM NO.	DESCRIPTION	UNIT
S901.050306	6" DUCTILE IRON PIPE CLASS 52 FOR HYDRANT BRANCH	LF
S906.0110	10" INSERTION SLEEVE	EA
S909.06	REMOVE EXISTING WATER VALVE BOX (INCLUDING EXCAVATION, BACKFILL, AND SURFACE RESTORATION)	EA
S912.06	ABANDON EXISTING WATER SERVICE AT TAP (INCLUDING EXCAVATION, BACKFILL, AND SURFACE RESTORATION)	EA
S912.090075	NEW 3/4" WATER SERVICE TAP AT WATER MAIN, CORPORATION STOP AND CONNECTION (INCLUDING ABANDONMENT OF EXISTING TAP) (INCLUDING EXCAVATION, BACKFILL, AND SURFACE RESTORATION)	EA
S912.090100	NEW 1" WATER SERVICE TAP AT WATER MAIN, CORPORATION STOP AND CONNECTION (INCLUDING ABANDONMENT OF EXISTING TAP) (INCLUDING EXCAVATION, BACKFILL, AND SURFACE RESTORATION)	EA
S913.030075	NEW 3/4" COPPER WATER SERVICE (INCLUDING EXCAVATION, BACKFILL, AND SURFACE RESTORATION)	LF
S913.130100	NEW 1" POLYETHYLENE WATER SERVICE (INCLUDING EXCAVATION, BACKFILL, AND SURFACE RESTORATION)	LF
S914.030075	FURNISH AND INSTALL NEW 3/4" CURB STOP AND BOX AT NEW WATER SERVICE (INCLUDING EXCAVATION, BACKFILL, AND SURFACE RESTORATION)	EA
S914.030100	FURNISH AND INSTALL NEW 1" CURB STOP AND BOX AT NEW WATER SERVICE (INCLUDING EXCAVATION, BACKFILL, AND SURFACE RESTORATION)	EA
S914.15	ADJUST EXISTING CURB BOX (INCLUDING EXCAVATION, BACKFILL, AND RESTORATION)	EA
S917.01	NEW HYDRANT	EA
S917.02	NEW HYDRANT (INCLUDING REMOVAL OF EXISTING HYDRANT)	EA
S917.05	REMOVE EXISTING HYDRANT	EA
S923.0112	BELL JOINT LEAK CLAMP	EA
S962.01	JOINT BOND	EA
S966.0332	32 POUND MAGNESIUM ANODE	EA

NOTES:

- PRIOR TO COMMENCING WORK, CONTRACTOR IS TO VERIFY LOCATION AND DISPOSITION OF ALL WATER SERVICE WORK.
- TRACER WIRE IS REQUIRED ON ALL BURIED NON-METALLIC WATER SERVICES.
- ALL NEW WATER SERVICE TAPS MUST BE A MINIMUM OF 18" FROM EXISTING TAP.
- CONTRACTOR TO PROVIDE WATER SERVICE LOCATION CARD FOR ALL NEW WATER SERVICES. SEE DETAIL 2 ON DWG CD-2.
- INSTALL 32 POUND ANODE AT WATERMAIN WITH ALL NEW SERVICE TAPS. *AND ABANDONMENTS*

DATE:	JAN. 2015
SCALE:	NTS
DESIGNED BY:	PGW/CIL
DRAWN BY:	KLO/MD2

REVISIONS

NO.	DATE	DESCRIPTION

CITY OF ROCHESTER, NEW YORK
PORTLAND AVENUE REVITALIZATION



CONSTRUCTION TABLES

COPYRIGHT © 2014
WENDEL

NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 1707 OF THE GENERAL BUILDING LAW OF THE STATE OF NEW YORK. ANY ALTERATIONS SHALL BE ACCOMPANIED BY A PERMIT FROM THE CITY ENGINEER, LAND SURVEYOR, ARCHITECT, OR LICENSED ARCHITECT MAKING SAID ALTERATIONS. ANY PERMIT MUST BE ALTERED BY FOLLOWING BY A WAIVER OF THE ALTERATIONS MADE.



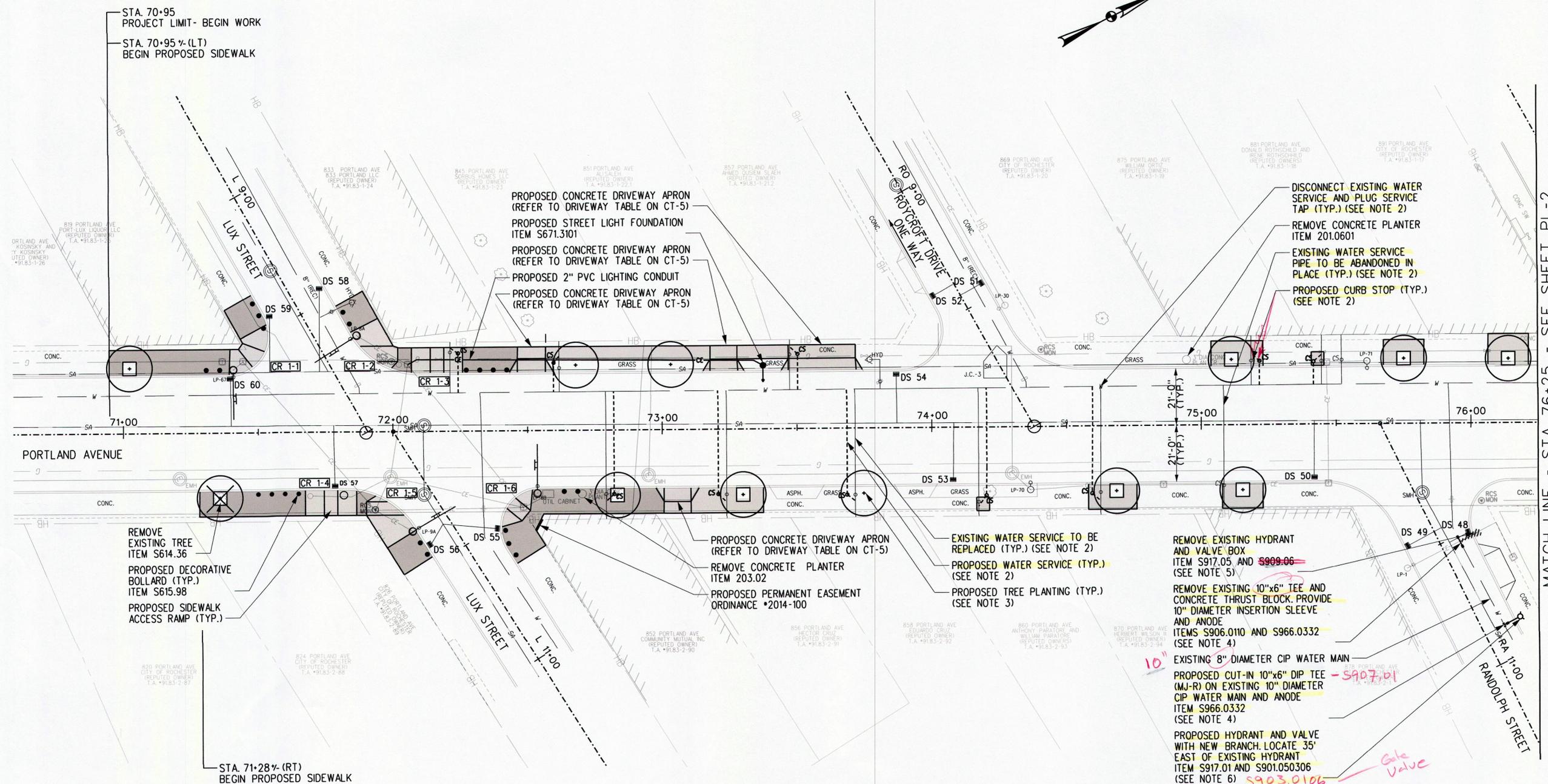
100 Chestnut Street, Suite 1110
Rochester, NY 14604
www.wendelcompanies.com

Wendel W.D. Architecture, Engineering, Surveying and
Landscape Architecture P.C.

DRAWING NO.
CT-2

SHEET 26 OF 44

WENDEL JOB NUMBER
22134062



STA. 70+95
PROJECT LIMIT- BEGIN WORK
STA. 70+95 1/2 (LT)
BEGIN PROPOSED SIDEWALK

STA. 71+28 1/2 (RT)
BEGIN PROPOSED SIDEWALK

MATCH LINE - STA. 76+25 - SEE SHEET PL-2

LEGEND

	CONCRETE
	EXPOSED AGGREGATE CONCRETE
	GRASS

SIDEWALK ACCESS RAMPS

NUMBER	RAMP TYPE
CR 1-1	F
CR 1-2	G
CR 1-3	F
CR 1-4	F
CR 1-5	G
CR 1-6	F

REFER TO SIDEWALK ACCESS RAMP DETAILS ON CD-11

- NOTES:**
- EXISTING BASEMAPPING FEATURES SHOWN ON DRAWING PL-1 ARE FROM RECORD DRAWINGS ONLY AND HAVE NOT BEEN FIELD SURVEYED.
 - REFER TO WATER SERVICE PIPE 2" DIAMETER AND SMALLER DETAIL ON CD-1 AND WATER SERVICE TABLE ON CT-1 THROUGH CT-3 FOR ADDITIONAL INFORMATION.
 - FOR LOCATIONS AND SPECIES OF PROPOSED TREE PLANTINGS, REFER TO TREE PLANTING TABLE ON CT-5.
 - REFER TO INSERTION SLEEVE AND CUT-IN TEE ON EXISTING IRON PIPE DETAIL ON CD-2.
 - REFER TO EXISTING HYDRANT ASSEMBLY REMOVAL DETAIL ON CD-3.
 - REFER TO HYDRANT AND VALVE WITH NEW BRANCH DETAIL ON CD-3.
 - WIDTH OF NEW SIDEWALK TO MATCH WIDTH OF EXISTING SIDEWALK.

SCALE: 1"=20'

NO.	DATE	REVISIONS	DESCRIPTION

CITY OF ROCHESTER, NEW YORK
PORTLAND AVENUE REVITALIZATION
ROADWAY PLAN

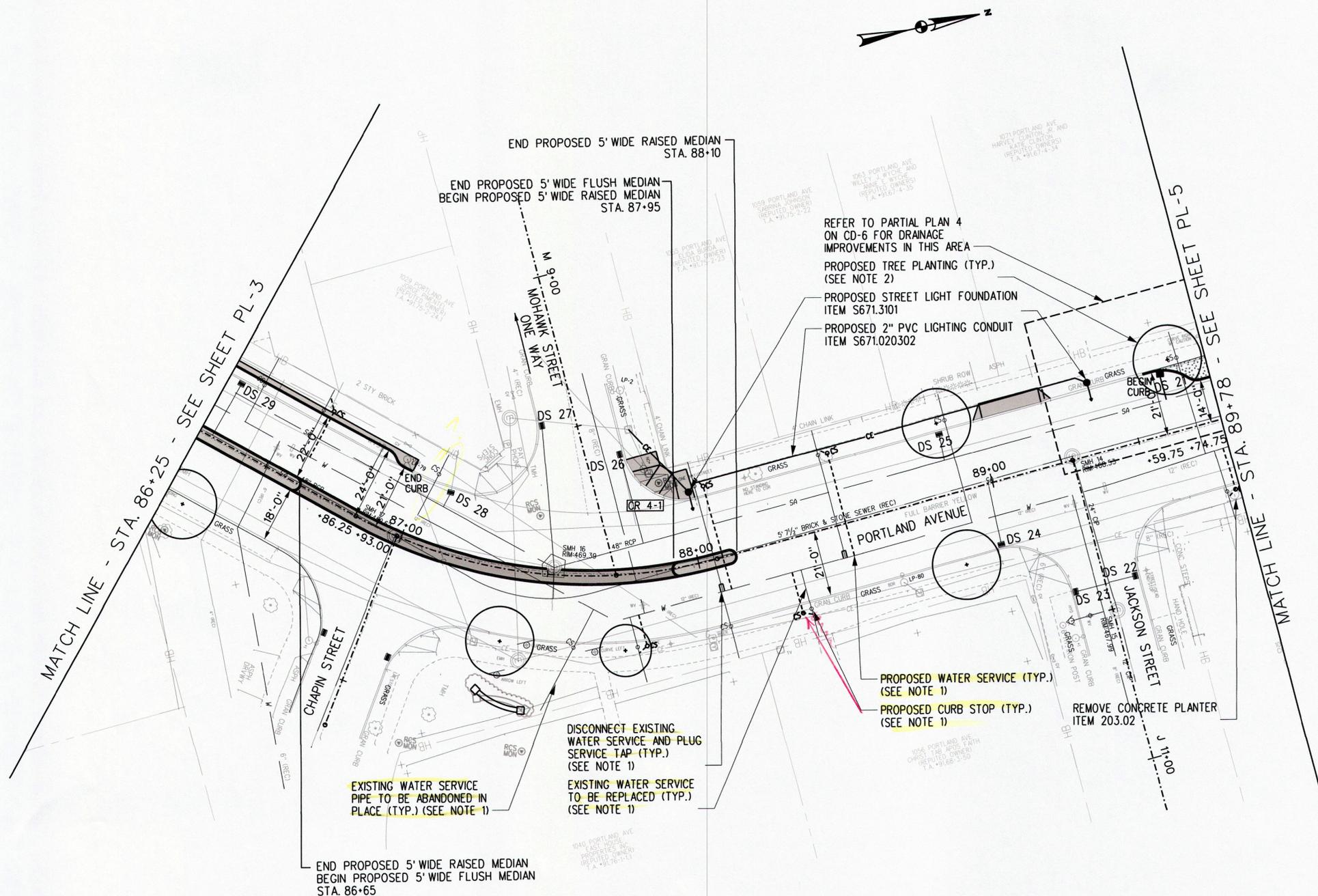
NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 170.1 OF THE STATE EDUCATION LAW AND NEW YORK STATE EDUCATION REGS. ANY ALTERATIONS SHALL BE ACCOMPANIED BY A LETTER FROM THE ARCHITECT, ENGINEER, LAND SURVEYOR, ARCHITECT, OR LANDSCAPE ARCHITECT MAKING SAID ALTERATION. ANY ALTERATION SHALL BE FOLLOWED BY A DESCRIPTION OF THE ALTERATIONS MADE.

COPYRIGHT © 2014
WENDEL

wendel
100 Chestnut Street, Suite 1110
Rochester, NY 14604
www.wendelcompanies.com
Wendel W0 Architecture, Engineering, Surveying and
Landscape Architecture P.C.

DRAWING NO.
PL-1
SHEET 32 OF 44
WENDEL JOB NUMBER
22134062

DATE: FEB. 2015
SCALE: 1" = 20'
DESIGNED BY: PGW/CJL
DRAWN BY: KLO/MD2



LEGEND

	CONCRETE
	EXPOSED AGGREGATE CONCRETE
	GRASS

CURB TABLE

BEGIN			END		
STA.	SIDE	OFFSET	STA.	SIDE	OFFSET
85+62	LT	21.0'	86+96	LT	21.0'
89+57	LT	21.0'	90+05	LT	40.8'

SIDEWALK ACCESS RAMP

NUMBER	RAMP TYPE
CR 4-1	F

REFER TO SIDEWALK ACCESS RAMP DETAILS ON CD-11

- NOTES:**
- REFER TO WATER SERVICE PIPE 2" DIAMETER AND SMALLER DETAIL ON CD-1 AND WATER SERVICES TABLE ON CT-1 THROUGH CT-3 FOR ADDITIONAL INFORMATION.
 - FOR LOCATIONS AND SPECIES OF TREE PLANTINGS, REFER TO TREE PLANTING TABLE ON CT-5.
 - REFER TO INTERSECTION BUMP-OUT DETAIL ON CD-13.
 - WIDTH OF NEW SIDEWALK TO MATCH WIDTH OF EXISTING SIDEWALK



REVISIONS	
NO.	DATE

CITY OF ROCHESTER, NEW YORK
PORTLAND AVENUE REVITALIZATION
 ROADWAY PLAN



COPYRIGHT © 2014
 WENDEL
 NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 1705 OF THE ENGINEERING AND SURVEYING LAW OF THE STATE OF NEW YORK. ANY ALTERATIONS SHALL BE ACCOMPANIED BY A LANDSCAPE ARCHITECT MARKING SAID ALTERATIONS BY FOLLOWING BY A DESCRIPTION OF THE ALTERATIONS MADE.



100 Chestnut Street, Suite 1110
 Rochester, NY 14604
 www.wendelcompanies.com

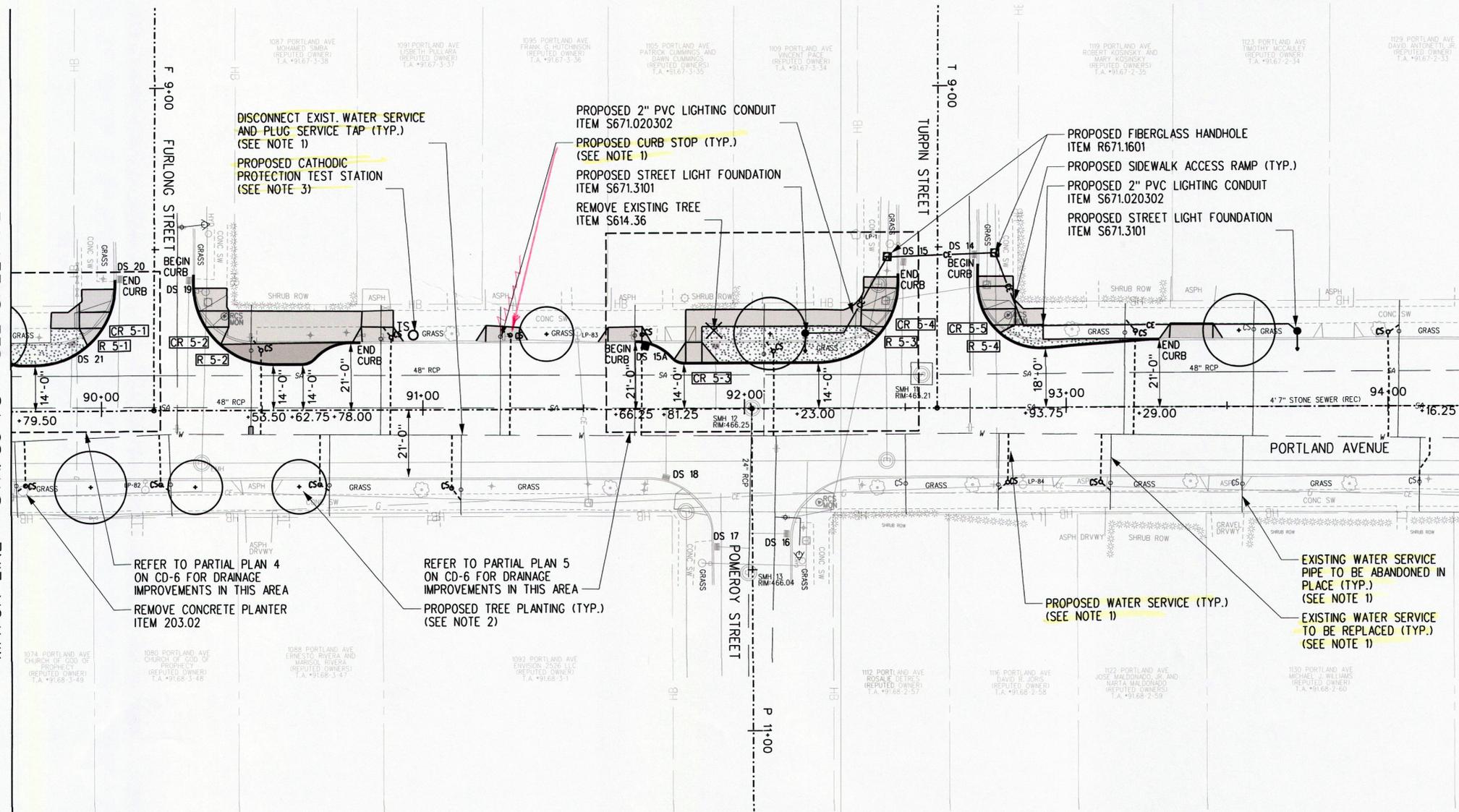
Wendel WD Architecture, Engineering, Surveying and Landscape Architecture P.C.

DRAWING NO.
PL-4
 SHEET 35 OF 44
 WENDEL JOB NUMBER
 22134062

DATE: FEB, 2015
 BY: [Signature]
 SCALE: 1" = 20'
 DESIGNED BY: PGW / CUL
 DRAWN BY: KLO / MD2

MATCH LINE - STA. 89+78 - SEE SHEET PL-4

MATCH LINE - STA. 94+25 - SEE SHEET PL-6



LEGEND

	CONCRETE
	EXPOSED AGGREGATE CONCRETE
	GRASS

CURB RADIUS DATA

NUMBER	RADIUS	DELTA	TANGENT	LENGTH	PC/PT STATION OFFSET
R 5-1	25'	89° 58' 23"	24.97'	38.37'	89+79.50 14.0' / 90+04.53 37.9' LT
R 5-2	25'	90° 17' 30"	25.13'	39.40'	90+28.55 39.1' / 90+53.50 14.0' LT
R 5-3	25'	90° 30' 37"	24.87'	39.14'	92+23.00 14.0' / 92+48.12 38.9' LT
R 5-4	20'	94° 11' 40"	21.52'	32.88'	92+72.30 38.4' / 92+93.75 18.0' LT

CURB TABLE

BEGIN			END		
STA.	SIDE	OFFSET	STA.	SIDE	OFFSET
89+57	LT	21.0'	90+05	LT	40.8'
90+29	LT	40.8'	90+81	LT	21.0'
91+66	LT	21.0'	92+48	LT	41.4'
92+72	LT	45.0'	93+32	LT	21.0'

SIDEWALK ACCESS RAMP

NUMBER	RAMP TYPE
CR 5-1	E
CR 5-2	E
CR 5-3	B
CR 5-4	E
CR 5-5	E

REFER TO SIDEWALK ACCESS RAMP DETAILS ON CD-11

NOTES:

- REFER TO WATER SERVICE PIPE 2" DIAMETER AND SMALLER DETAIL ON CD-1 AND WATER SERVICES TABLE ON CT-1 THROUGH CT-3 FOR ADDITIONAL INFORMATION.
- FOR LOCATIONS AND SPECIES OF TREE PLANTINGS, REFER TO TREE PLANTING TABLE ON CT-5.
- REFER TO CATHODIC PROTECTION TEST STATION FOR METALLIC WATER PIPE OR FITTING DETAIL ON CD-2. UTILITY ANODE TO BE PROVIDED FOR WATER SERVICE CONNECTION REPLACEMENT TO 1091 PORTLAND AVE. COORDINATE LOCATION WITH THE OWNER IN THE FIELD.
- REFER TO INTERSECTION BUMP-OUT DETAIL ON CD-13.
- WIDTH OF NEW SIDEWALK TO MATCH WIDTH OF EXISTING SIDEWALK

SCALE: 1"=20'

REVISIONS

NO.	DATE	DESCRIPTION

CITY OF ROCHESTER, NEW YORK
PORTLAND AVENUE REVITALIZATION
 ROADWAY PLAN

COPYRIGHT © 2014
 WENDEL

NO ALTERATION PERMITTED HEREON WITHOUT THE WRITTEN CONSENT OF THE CITY OF ROCHESTER, NEW YORK. THIS DOCUMENT IS THE PROPERTY OF THE CITY OF ROCHESTER, NEW YORK. IT IS TO BE KEPT IN THE OFFICE OF THE ENGINEER, LAND SURVEYOR, ARCHITECT, OR PROFESSIONAL ENGINEER, AND RETURNED TO THE CITY OF ROCHESTER, NEW YORK, UPON THE COMPLETION OF THE PROJECT. ANY ALTERATION TO THIS DOCUMENT WITHOUT THE WRITTEN CONSENT OF THE CITY OF ROCHESTER, NEW YORK, IS PROHIBITED.

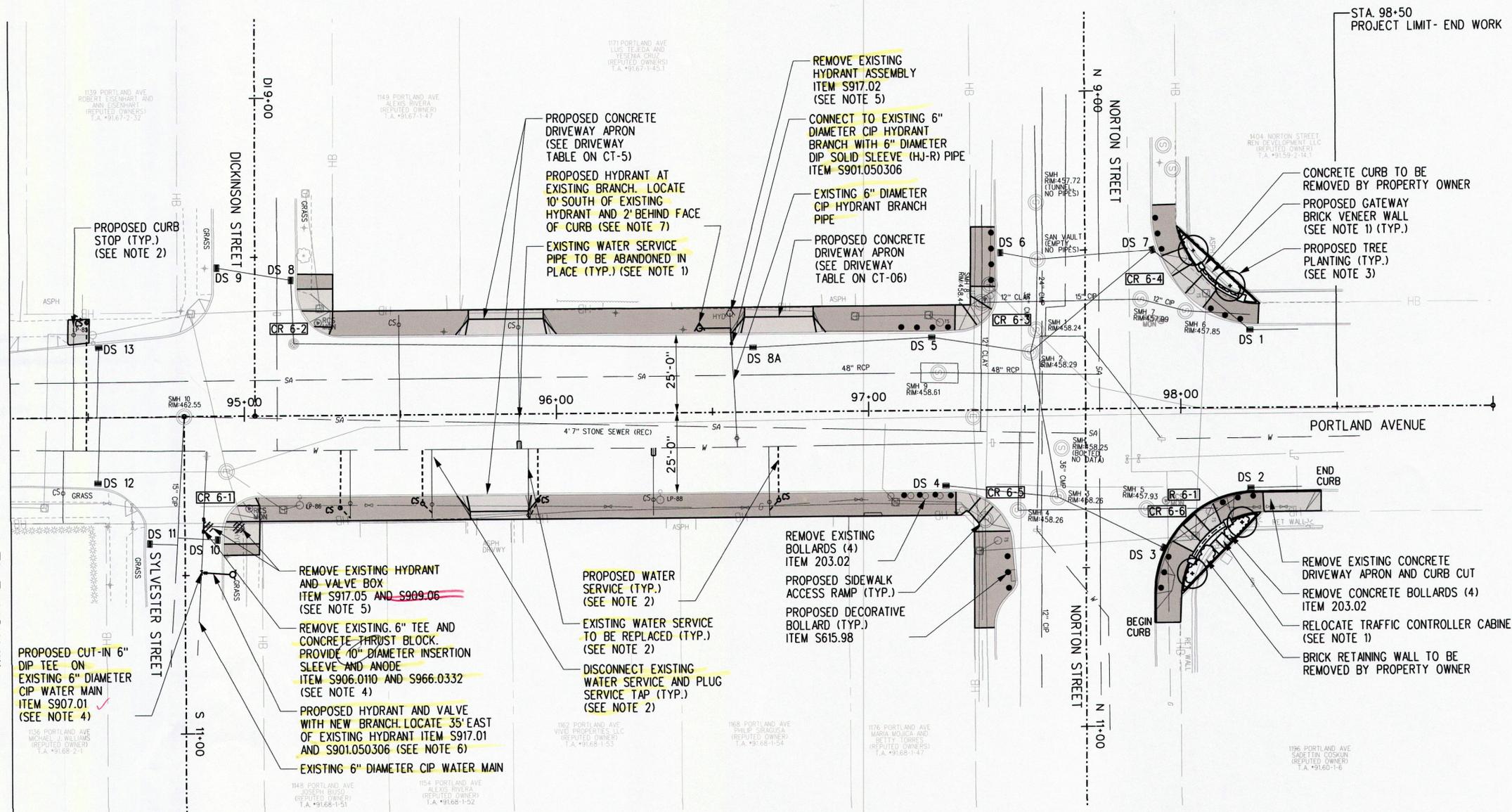
100 Chestnut Street, Suite 1110
 Rochester, NY 14604
 www.wendel.com

Wendel WJ Architecture, Engineering, Surveying and Landscape Architecture P.C.

DRAWING NO.
PL-5
 SHEET 36 OF 44
 WENDEL JOB NUMBER
 22134062

DATE: FEB. 2015
 SCALE: 1" = 20'
 DESIGNED BY: PGW/CJL
 DRAWN BY: KLO/MDZ

MATCH LINE - STA. 94+25 - SEE SHEET PL-5



STA. 98+50
PROJECT LIMIT- END WORK

LEGEND

	CONCRETE
	EXPOSED AGGREGATE CONCRETE
	GRASS

CURB RADIUS DATA

NUMBER	RADIUS	DELTA	TANGENT	LENGTH	PC/PT STATION OFFSET
R 6-1	32'	89° 28' 45"	31.71'	49.97'	97+91.39 58.3' / 98+23.18 26.4' RT

CURB TABLE

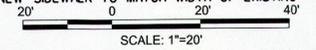
BEGIN			END		
STA.	SIDE	OFFSET	STA.	SIDE	OFFSET
97+91	RT	67.3'	98+45	RT	26.6'

SIDEWALK ACCESS RAMPS

NUMBER	RAMP TYPE
CR 6-1	G
CR 6-2	G
CR 6-3	F
CR 6-4	F
CR 6-5	F
CR 6-6	F

REFER TO SIDEWALK ACCESS RAMP DETAILS ON CD-11

- NOTES:**
- REFER TO CONTROLLER LOCATION DIAGRAM ON PM-6 FOR PROPOSED LOCATION OF TRAFFIC CONTROLLER CABINET AND GATEWAY BRICK VENEER WALL.
 - REFER TO WATER SERVICE PIPE 2" DIAMETER AND SMALLER DETAIL ON CD-1 AND WATER SERVICES TABLE ON CT-1 THROUGH CT-3 FOR ADDITIONAL INFORMATION.
 - FOR LOCATIONS AND SPECIES OF TREE PLANTINGS, REFER TO TREE PLANTING TABLE ON CT-5.
 - REFER TO INSERTION SLEEVE AND CUT-IN TEE ON EXISTING IRON PIPE DETAIL ON CD-2.
 - REFER TO EXISTING HYDRANT ASSEMBLY REMOVAL DETAIL ON CD-3.
 - REFER TO HYDRANT AND VALVE WITH NEW BRANCH DETAIL ON CD-3.
 - REFER TO HYDRANT AT EXISTING BRANCH DETAIL ON CD-3.
 - WIDTH OF NEW SIDEWALK TO MATCH WIDTH OF EXISTING SIDEWALK



REVISIONS

NO.	DATE	DESCRIPTION

CITY OF ROCHESTER, NEW YORK
PORTLAND AVENUE REVITALIZATION

ROADWAY PLAN

COPYRIGHT © 2014 WENDEL
 NO ALTERATION PERMITTED HEREON WITHOUT THE WRITTEN CONSENT OF WENDEL. THIS DOCUMENT IS THE PROPERTY OF WENDEL AND IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED BY THE SEAL AND SIGNATURE OF THE ENGINEER. LAND SURVEYOR ARCHITECT, ETC. ANY ALTERATION WITHOUT THE WRITTEN CONSENT OF WENDEL IS PROHIBITED. THIS STATEMENT SHALL BE FOLLOWED BY ALL SUBSEQUENT ALTERATIONS MADE.

100 Chestnut Street, Suite 1110
 Rochester, NY 14604
 www.wendelcompanies.com

Wendel W.D. Architecture, Engineering, Surveying and Landscape Architecture P.C.

DRAWING NO.
PL-6

SHEET 37 OF 44
 WENDEL JOB NUMBER
 22134062

DATE: FEB. 2015
 SCALE: 1"=20'
 DESIGNED BY: PGW/CIL
 DRAWN BY: KLO/MD2