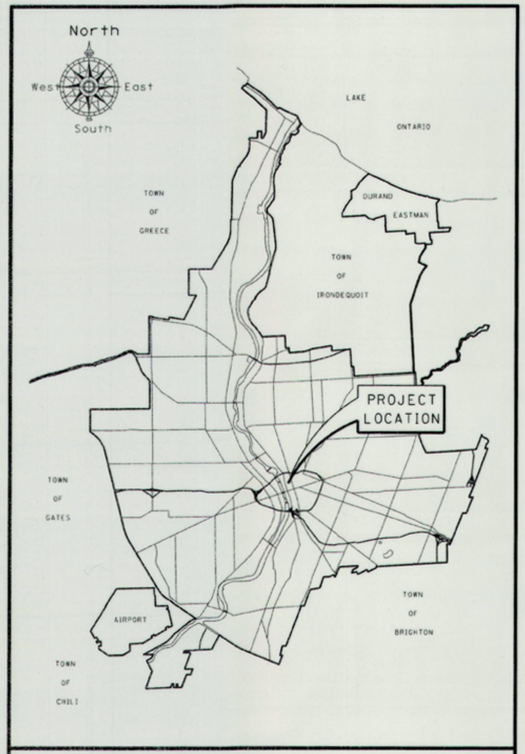
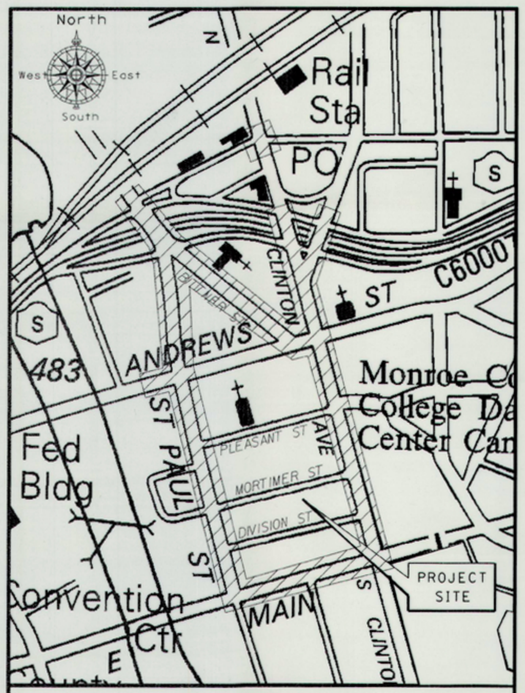


GENERAL LOCATION MAP



ENLARGED VIEW

CITY OF ROCHESTER

DEPARTMENT OF ENVIRONMENTAL SERVICES

CENTER CITY TWO-WAY CONVERSION

SAINT PAUL STREET AND NORTH CLINTON AVENUE BETWEEN EAST MAIN STREET AND CUMBERLAND STREET

PROJECT CODE 13102

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7/2/14

NORMAN JONES — DATE
COMMISSIONER DEPARTMENT
OF ENVIRONMENTAL SERVICES
CITY OF ROCHESTER

DATE

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

7/2/14

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

7/1/14

RICHARD C. BENNETT, P.E. — DATE
FISHER ASSOCIATES, P.E., L.S., L.A., P.C.
P.E. LICENSE NO. 084070

STATE OF NEW YORK
RICHARD CHARLES BENNETT
084070
LICENSED PROFESSIONAL ENGINEER
7-1-14

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SURVEYED BY:

LARSEN ENGINEERS
700 West Metro Park, Rochester, NY 14623
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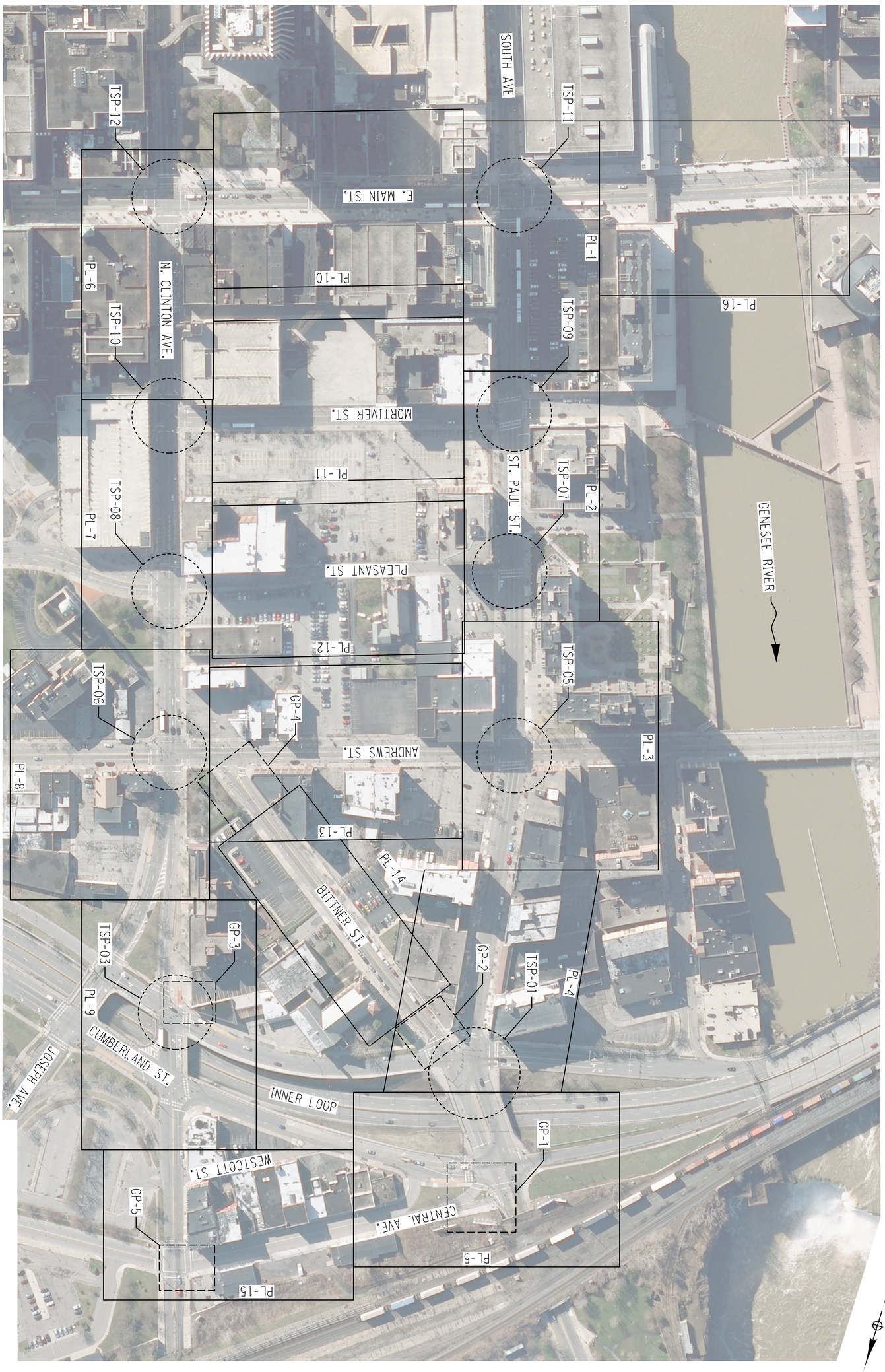

DRAWING NO. GNP-1

SHEET 2 OF 69

PROJECT
CENTER CITY TWO-WAY CONVERSION
SAINT PAUL STREET AND NORTH CLINTON AVENUE
BETWEEN EAST MAIN STREET AND CUMBERLAND STREET
PIN:13102
CITY OF ROCHESTER, MONROE COUNTY, NEW YORK

TITLE OF DRAWING
GENERAL PLAN SHEET

FISHERASSOCIATES
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135 Calkins Road, Rochester, NY 14623
Phone: 585-234-1310

RICHARD CHARLES BENNETT — STATE OF NEW YORK — LICENSED PROFESSIONAL ENGINEER

FA PROJECT NO.
121033

PROJECT MANAGER
R. BENNETT

DRAWN BY
T. DAVIS

SCALE
AS SHOWN

ISSUE DATE
JULY 2014

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If an item bearing the seal of an engineer or land surveyor is altered, the altering engineer or surveyor shall affix to the item his/her seal and the notation "altered by" followed by his/her signature and the date of such alteration, and a specific description of the alteration.

REV	DESCRIPTION	DATE	BY
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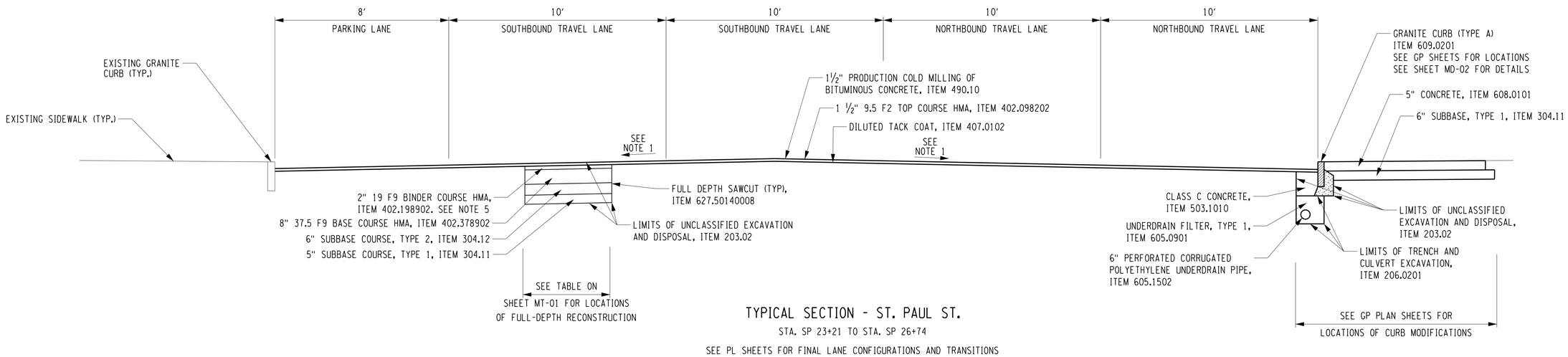
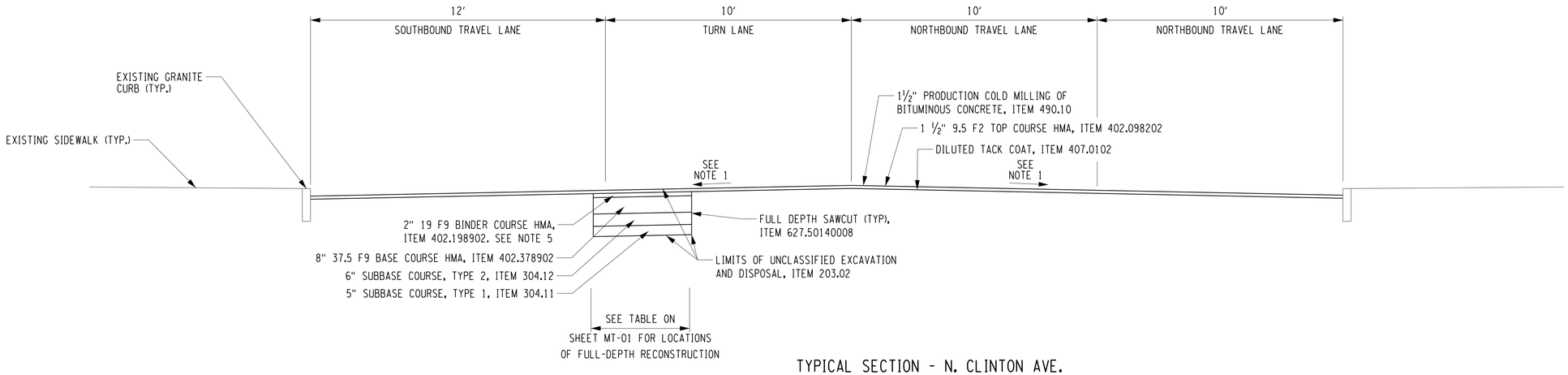


TYPICAL SECTION - ST. PAUL ST.

STA. SP 23+21 TO STA. SP 26+74

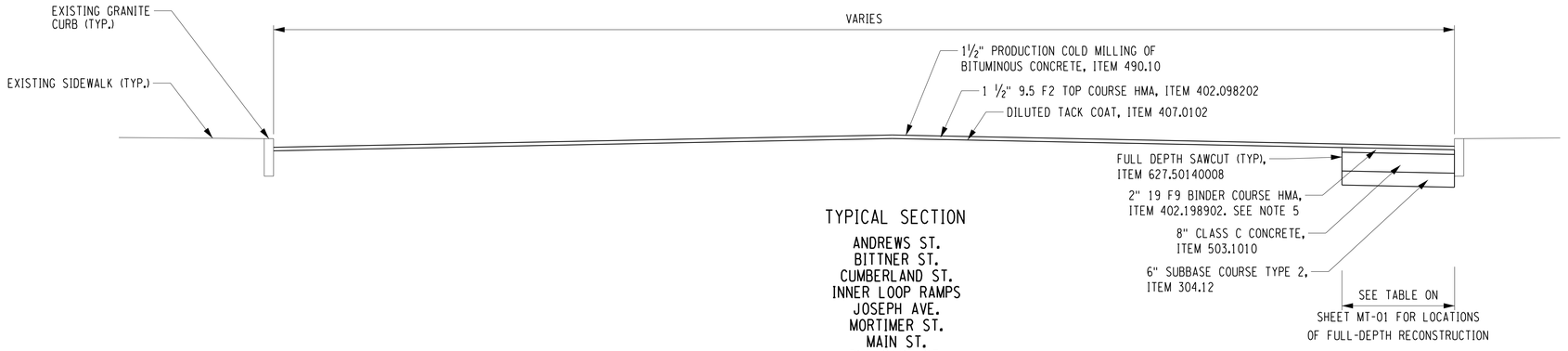
SEE PL SHEETS FOR FINAL LANE CONFIGURATIONS AND TRANSITIONS



TYPICAL SECTION - N. CLINTON AVE.

STA. CL 14+66 TO STA. CL 17+30

SEE PL SHEETS FOR FINAL LANE CONFIGURATIONS AND TRANSITIONS



TYPICAL SECTION

ANDREWS ST.
BITTNER ST.
CUMBERLAND ST.
INNER LOOP RAMPS
JOSEPH AVE.
MORTIMER ST.
MAIN ST.
PLEASANT ST.

SEE PL SHEETS FOR FINAL LANE CONFIGURATIONS AND TRANSITIONS

NOTES:

1. IT IS THE INTENT OF THIS PROJECT TO REPLACE PAVEMENT SURFACES IN-KIND AND RETAIN ALL EXISTING CROSS SLOPES TO THE EXTENT POSSIBLE. CHANGES TO CROWN, CROSS SLOPE AND CURB REVEAL SHALL BE ONLY AS DIRECTED BY THE ENGINEER.
2. SEE PL SHEETS FOR ALL FINAL LANE CONFIGURATIONS AND TRANSITIONS.
3. SEE GP SHEETS FOR CURB MODIFICATION LOCATIONS AND DETAILS.
4. SEE SHEETS MD-02 AND MD-03 FOR CURB AND FULL-DEPTH CONSTRUCTION DETAILS, RESPECTIVELY.
5. CURB MODIFICATIONS AND FULL-DEPTH CONSTRUCTION AREAS SHALL BE COMPLETED PRIOR TO THE FINAL TOP COURSE PAVEMENT PLACEMENT. CONTRACTOR TO INSTALL 3½ INCHES OF BINDER COURSE AT TIME OF CURB OR FULL-DEPTH CONSTRUCTION SO THAT WHEN MILLING IS PERFORMED LATER THE TOP COURSE IS PLACED AT 1½ INCHES.
6. TACK COAT IS TO BE APPLIED BETWEEN ALL LIFTS OF HMA PAVEMENT COURSES AND ON TOP OF CONCRETE BASE.

REV	DESCRIPTION	DATE	BY
7			
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FA PROJECT NO.
121033
PROJECT MANAGER
R. BENNETT
DRAWN BY
K. DUGAN
SCALE
AS SHOWN
ISSUE DATE
JULY 2014

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PROJECT
CENTER CITY TWO-WAY CONVERSION
SAINT PAUL STREET AND NORTH CLINTON AVENUE
BETWEEN EAST MAIN STREET AND CUMBERLAND STREET
PIN:13102
CITY OF ROCHESTER, MONROE COUNTY, NEW YORK

TITLE OF DRAWING
TYPICAL SECTIONS

DRAWING NO.
TYP-01

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ALIGNMENT

STYLE	NAME	DESCRIPTION
	AC	CONTROL (CENTERLINE)
	AD_P	DETOUR
	AT_P	TRANSITION CONTROL

BRIDGE

STYLE	NAME	DESCRIPTION
	BR	RAIL
	BSHT	SHEET PILING

CONTROL

STYLE	NAME	DESCRIPTION
B	CB	BASELINE
B	CBPR	BASELINE, PROJECTION

DRAINAGE

STYLE	NAME	DESCRIPTION
ST	DCP	CULVERT PIPE
ST	DCP_P	CULVERT PIPE (DIR)
	DDG_P	DITCH, GRASS LINED
	DDP_P	DITCH, PAVED INVERT
	DDS_P	DITCH, STONE LINED
	DFL_P	FLOW LINE
	DSSD	SLOTTED DRAIN
UD	DUD_P	UNDERDRAIN

ENVIRONMENTAL

STYLE	NAME	DESCRIPTION
S	EBLHS	BALE, STRAW
	ECT	CURTAIN, TURBIDITY
	EDMC	DAM, COFFER
	EDMEC_P	DAM, EARTHEN CHECK
	EDMGSC_P	DAM, GRAVEL BAG/SAND BAG CHECK
	EDMPC_P	DAM, PREFABRICATED CHECK
	EDMSC_P	DAM, STONE CHECK
	EFNS	FENCE, SILT
x	EFNSV	FENCE, SILT & VEGETATION
x	EFNV	FENCE, VEGETATION
AA	EWAA_P	WETLAND, ADJACENT AREA
FW	EWF	WETLAND, FEDERAL
FW SW	EWFS	WETLAND, FEDERAL AND STATE
SW	EWM	WETLAND, MITIGATION AREA
SW	EWS	WETLAND, STATE

LANDSCAPE

STYLE	NAME	DESCRIPTION
	LABL	AREA, BRUSH LINE
	LAHR	AREA, HEDGE ROW
	LAPB	AREA, PLANTING BED
	LAWA	AREA, WOODED AREA OUTLINE
	LAWE	AREA, WATERS EDGE
	LCUT_P	CUT LIMIT
	LFILL_P	FILL LIMIT
	LFNC	FENCE
	LTRC	TREE ROW, CONIFEROUS
	LTRD	TREE ROW, DECIDUOUS
	LWH	WALL, H PILE
	LWR	WALL, RETAINING
	LWS	WALL, STONE

ROW MAPPING

STYLE	NAME	DESCRIPTION
	MDL	DEED LINE
PE	MEE	EASEMENT, EXISTING
PE	MEP_P	EASEMENT, PERMANENT
APE	MEPA_P	EASEMENT, PERMANENT, APPROX.
TE	MET_P	EASEMENT, TEMPORARY
ATE	META_P	EASEMENT, TEMPORARY, APPROX.
FEE	MF_P	FEE ACQUISITION, W/ ACCESS
AFEE	MFA_P	FEE ACQUISITION, APPROXIMATE
	MFS_P	FEE ACQUISITION, SHAPE
FEE W/OA	MFWOA_P	FEE ACQUISITION, W/O ACCESS
	MHA	HISTORICAL, ACQUISITION
HB	MHB	HIGHWAY BOUNDARY
AHB	MHBA	HIGHWAY BOUNDARY, APPROX.
	MHBW	HWY BOUNDARY, FACE OF WALL
HB W/OA	MHBWOA	HIGHWAY BOUNDARY, W/O ACCESS
	MJC	JURISDICTION, CITY
	MJCY	JURISDICTION, COUNTY
	MJHD	JURISDICTION, HISTORIC DISTRICT
	MJLL	JURIS., (GREAT, MILITARY) LOT LINE
	MJN	JURISDICTION, NATION
	MJPB	JURISDICTION, PUBLIC LANDS
	MJS	JURISDICTION, STATE
	MJT	JURISDICTION, TOWN
	MJV	JURISDICTION, VILLAGE
	MPL	PROPERTY LOT LINE
	MPLA	PROPERTY LOT LINE, APPROXIMATE
	MSL	SUB LOT LINE

ROADWAY

STYLE	NAME	DESCRIPTION
CZ	RCZ_P	CLEAR ZONE
	RG	GUIDE RAIL, MISCELLANEOUS
	RGB	GUIDE RAIL, BOX BEAM
	RGBM	GUIDE RAIL, BOX BEAM, MEDIAN
	RGC	GUIDE RAIL, CABLE
	RGCB	GUIDE RAIL, CONCRETE BARRIER
	RGP_P	GUIDE POST
	RGW	GUIDE RAIL, W BEAM
	RGWM	GUIDE RAIL, W BEAM, MEDIAN
	RPB	PARKING BUMPER
	RRC	RAIL ROAD, CATENARY
3R	RRER	RAIL ROAD, 3RD RAIL
	RRPLS_P	RAIL, PHOTO, LARGE SCALE
	RRPSS	RAIL, PHOTO, SMALL SCALE
	RRS	RUMBLE STRIP
	RRSLS_P	RAIL, SURVEY, LARGE SCALE
	RRSSS	RAIL, SURVEY, SMALL SCALE

SIGNS

STYLE	NAME	DESCRIPTION
	SBLB	BILLBOARDS
	SM	MULTIPLE POST
	SSO	STRUCTURE, OVERHEAD
	SSOC	STRUCTURE, OVHD. CANTILEVER

STRIPING

STYLE	NAME	DESCRIPTION
	STB•	BROKEN LINE
	STDB•	DOUBLE BROKEN LINE
	STDL•	DOTTED LINE LONG
	STDS•	DOTTED LINE SHORT
	STFB•	FULL BARRIER LINE
	STH•	HATCH LINE
	STPB•	PARTIAL BARRIER LINE
	STRCT	ROUNDABOUT, CAT TRACKS
	STRYL	ROUNDABOUT, YIELD LINE
	STSB	STOP BAR
	STSE•	SOLID, EDGE
	STXL	X WALK, LADDER LINE
	STXLB	X WALK, LADDER BAR LINE

• = W (WHITE) OR Y (YELLOW)

TRAFFIC CONTROL

STYLE	NAME	DESCRIPTION
	TCSW	SIGNAL, SPAN WIRE

TRAFFIC WORK ZONE

STYLE	NAME	DESCRIPTION
	TWZBT_P	BARRIER, TEMPORARY
	TWZBTWL_P	BARRIER, TEMPORARY, W/ WARNING LIGHTS
	TWZCD_P	CHANNELIZING DEVICE
	TWZPMRC_P	PAVEMENT MARKING REMOVAL OR COVERING

UTILITIES

STYLE	NAME	DESCRIPTION
C	UC	CONDUIT, UNDERGROUND
]C[	UCH	CONDUIT, HANGING
OC	UCO	CONDUIT, OVERHEAD
E	UE	ELECTRIC LINE, UNDERGROUND
]E[	UEH	ELECTRIC LINE, HANGING
OE	UEO	ELECTRIC LINE, OVERHEAD
OET	UETO	ELECTRIC TRANSMISSION, OVERHEAD
	UESS	ELECTRIC, SUBSTATIONS
FO	UFO	FIBER OPTIC, UNDERGROUND
]FO[	UFOH	FIBER OPTIC, HANGING
OFO	UFOO	FIBER OPTIC, OVERHEAD
G	UG	GAS, UNDERGROUND
]G[	UGH	GAS, HANGING
OG	UGO	GAS, OVERHEAD
IC	UIC	INFORM CABLE, UNDERGROUND
]IC[	UICH	INFORM CABLE, HANGING
O	UO	OIL LINE, UNDERGROUND
]O[	UOH	OIL LINE, HANGING
	UPBP	POLE, BRACE, PUSH BRACE
	UPGW	POLE, GUY WIRE
SA	USA	SANITARY SEWER, UNDERGROUND
]SA[	USAH	SANITARY SEWER, HANGING
SAF	USAF	SANITARY SEWER, FORCE MAIN, UGND
]SAF[	USAFH	SANITARY SEWER, FORCE MAIN, HANG
T	UT	TELEPHONE, UNDERGROUND
]T[	UTH	TELEPHONE, HANGING
OT	UTO	TELEPHONE, OVERHEAD
CTV	UTV	CABLE TV, UNDERGROUND
]CTV[	UTVH	CABLE TV, HANGING
OCTV	UTVO	CABLE TV, OVERHEAD
UU	UUU	UNKNOWN, UNDERGROUND
]UU[	UUH	UNKNOWN, HANGING
OUU	UUO	UNKNOWN, OVERHEAD
W	UW	WATER LINE, UNDERGROUND
]W[	UWH	WATER LINE, HANGING
OW	UWO	WATER LINE, OVERHEAD

1. THE LEGEND ILLUSTRATES MAPPING FEATURES (EXISTING AND PROPOSED).
2. FEATURES ARE SHOWN AS EITHER LINEAR (ROADWAY GUIDERAIL, ROADWAY SIDEWALK, UTILITY LINES, ETC.) OR POINT (SIGN, UTILITY POLE, ETC.).
3. FEATURES SHOWN ON THE LEGEND AS EXISTING FEATURES ALSO HAVE CORRESPONDING PROPOSED FEATURES.
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FA PROJECT NO.
121033

PROJECT MANAGER
R. BENNETT

DRAWN BY
T. DAVIS

SCALE
AS SHOWN

ISSUE DATE
JULY 2014

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PROJECT
CENTER CITY TWO-WAY CONVERSION
SAINT PAUL STREET AND NORTH CLINTON AVENUE
BETWEEN EAST MAIN STREET AND CUMBERLAND STREET
PIN:13102
CITY OF ROCHESTER, MONROE COUNTY, NEW YORK

TITLE OF DRAWING
LEGEND - 1

DRAWING NO.
LEG-01

ALIGNMENT

CELL	NAME	DESCRIPTION
	ACC	CENTER OF CURVATURE
	ACOGO	COGO
	ACS	CURVE TO SPIRAL
	ADPI_P	DETOUR, POINT OF INTERSECT.
	ADPL_P	DETOUR, POINT ON LINE
	AEQN	EQUATION
	AEQNAHD	EQUATION AHEAD
	AEQNBK	EQUATION BACK
	AEVT	EVENT STATION
	APC	POINT OF CURVATURE
	APCC	POINT OF COMPOUND CURVATURE
	API	POINT OF INTERSECTION
	APOB	POINT OF BEGINNING
	APOC	POINT OF CURVATURE
	APOE	POINT OF END
	APOL	POINT ON LINE
	APOS	POINT ON SPIRAL
	APOT	POINT ON TANGENT
	APOVC	POINT ON VERTICAL CURVE
	APOVT	POINT ON VERTICAL TANGENT
	APORC	POINT ON REVERSE CURVE
	APT	POINT OF TANGENCY
	APVC	POINT OF VERTICAL CURVATURE
	APVCC	POINT OF VERT. CMPND CURVE
	APVI	POINT OF VERT. INTERSECTION
	APVRC	POINT OF VERT. REVERSE CURVE
	APVT	POINT OF VERTICAL TANGENCY
	ASC	SPIRAL TO CURVE
	ASPI	SPIRAL POINT OF INTERSECTION
	ASTS	SPIRAL TO SPIRAL
	AST	SPIRAL TO TANGENT
	ATS	TANGENT TO SPIRAL
	AVEVT	VERTICAL EVENT POINT
	AVHIGH	VERTICAL HIGH POINT
	AVLOW	VERTICAL LOW POINT

BRIDGE

CELL	NAME	DESCRIPTION
	BSC	BRIDGE, SCUPPER

CONTROL

CELL	NAME	DESCRIPTION
	CBP	BASELINE, POINT
	CBPOL	BASELINE, POINT ON LINE
	CBSP	BASELINE, SPUR POINT
	CBTP	BASELINE, TIE POINT
	CPBM	BENCHMARK
	CPH	POINT, HORIZ. PHOTOGRAMMETRY
	CPSM	POINT, SURVEY MARKER, PERM.
	CPSV	POINT, VERT., PHOTOGRAMMETRY

DRAINAGE

CELL	NAME	DESCRIPTION
	DINV	INVERT
	DS	STRUCTURE, RECTANGULAR
	DSI	STRUCTURE, INVERT
	DSM	STRUCTURE, MANHOLE
	DSMTXX_P	STRUCTURE, MANHOLE, TYPE "XX" "XX" = 48, 60, 72, 96
	DSR	STRUCTURE, ROUND
	DST"X"CB P	STRUCTURE, RECT., WITH CURB TYPE "X" "X" = F, G, N, O, P, R
	DST"X" P	STRUCTURE, RECT., TYPE "X" "X" = I, K, L, M, O, P, U

ENVIRONMENTAL

CELL	NAME	DESCRIPTION
CULV	EIOP_P	STR., INLET, OUTLET PROT.
GB	EIPGB_P	STR., INLET PROT., GRAVEL BAG
H/S	EIPHS_P	STR., INLET PROT., HAY/STRAW
PRFB	EIPP_P	STR., INLET PROT., PREFAB.
SF	EIPSF_P	STR., INLET PROT., SILT FENCE
	ERCB	RISER, CONCRETE BOX
	ETRS_P	TRAP, SEDIMENT
	EWFG	WETLAND FLAG

GEOTECHNICAL

CELL	NAME	DESCRIPTION
	GDH	DRILL HOLE

LANDSCAPE

CELL	NAME	DESCRIPTION
	LELS	ELEVATION, SPOT
	LFP	FLAG POLE
	LMB	MAILBOX
	LPB	PAPER BOX
	LPST	POST, SINGLE
	LRB	ROCK, BOULDER
	LSHC	SHRUB, CONIFEROUS
	LSHD	SHRUB, DECIDUOUS
	LTC	TREE, CONIFEROUS
	LTD	TREE, DECIDUOUS
	LTS	TREE, STUMP
	LTW P	TREE, WELL OR WALL
	LUKP	UNKNOWN POINT

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ITS

CELL	NAME	DESCRIPTION
	IANT P	ANTENNAS
	IASCTS	ACCOU. SPEED/COUNT SNSR.S
	ICABPAD	CABINET & PAD
	ICCTV	CCTV SITE
CDPD	ICDPD	CDPD TRANSCEIVER
	ICELLT	CELL PHONE TOWER
	ICJB	CONDUIT JACK OR BORING
	ICNTLCAB	CONTROLLER CABINET
	ICPB	COMMUNICATION PULL BOX
	ICTD	CONDUIT TURNING DOWN
	ICTU	CONDUIT TURNING UP
	ICVTRT	COMM. VEH. ROAD TRANSCEIVER
	IDEFAULT	DEFAULT
EZ	IEZR	E-ZPASS READER
EZ-T	IEZTR	TRANSMITTAL READER
XC	IFOXCAB	FIBER OPTIC X-CONNECT CABINET
	IFUSSPL	FUSION SPLICE
	IHARADV	HAR ADVISORY SIGN
	IHARST	HAR SITE
LC	ILC	LOAD CENTER
	IMECSPL	MECHANICAL SPLICE
PM	IMSCS	PORT. SPEED & COUNT SENSOR
M	IMSCTS	MICRO SPEED & COUNT SENSOR
M	IMT	MICROWAVE TRANSCEIVER
VMS	IOVHVMS	PERM. OVERHEAD VMS
PA	IPASCS	PORT. ACCOU. SPD & CNT. SENSOR
	IPEDS	PEDESTRIAN SIGNAL HEAD
	IPSS	PAVEMENT SURFACE SENSOR
PVMS	IPVMS	PERM. VMS
RM	IRM	RAMP METER
RWIS	IRWIS	RDWY WEATHER INFO. SENSOR
	ISP	SOLAR PANEL
SS	ISST	SPREAD SPECT. TRANSCEIVER
TC	ITDB	TELEPHONE DEMARCATION BLK
TP	ITP	SUBSURFACE TEMP. PROBE
	IVTRT	VEHICLE TO RDWY TRANSCEIVER
WIM	IWIMD	WEIGHT IN MOTION DETECTOR
WVR	IWVR	WIRELESS VIDEO REPEATER
V	IWVRC	WIRELESS VIDEO RECEIVER
V	IWVTT	WIRELESS VIDEO TRANSMITTER

ROW MAPPING

CELL	NAME	DESCRIPTION
	MDL1P	DEED LINE, TYPE 1
	MDL2P	DEED LINE, TYPE 2
	MDL3P	DEED LINE, TYPE 3
	MDL4P	DEED LINE, TYPE 4
	MDL5P	DEED LINE, TYPE 5
	MEEP	EASEMENT, EXISTING
	MEPAP_P	EASEMENT, PERM., APPROX.
	MEPP_P	EASEMENT, PERM., BACK LINE
	MEPSP_P	EASEMENT, PERM., SHAPE
	MFAP_P	FEE ACQUISITION, APPROX.
	MFP_P	FEE ACQUISITION, BACK LINE
	MFSP_P	FEE ACQUISITION, SHAPE
	MHBAP	HIGHWAY BNDRY., APPROX.
	MHBCP	HISTORICAL, BLDG. CORNERS
	MHBP	HIGHWAY BNDRY., PT.
	MJCP	PT., JURIS. CITY
	MPBC	PT., BUILDING CORNER
	MPCC	PT., CROSS CUT
	MPDH	PT., DRILL HOLE
	MPF	PT., FENCE LOCATION
	MPIP	PT., IRON PIPE
	MPIR	PT., IRON ROD
	MPM	PT., MONUMENT
	MPMM	PT., MONUMENT, MISC.
	MPN	PT., NAIL
	MPRS	PT., RAILROAD SPIKE
	MPSP	PT., SPIKE
	MPST	PT., STAKE
	MPTW	PT., TREE W/ WIRE
	MPWL	PT., WALL LOCATION

ROW ACQUISITION

CELL	NAME	DESCRIPTION
M1 P1 FEE	MFS_P_T	FEE ACQUISITION
M1 P1 PE	MEPS_P_T	EASEMENT, PERMANENT
M1 P1 TE	METS_P_T	EASEMENT, TEMPORARY
M1 P1 TO	METS_P_T	OCCUPANCY, TEMPORARY
M1 P1 FEE WO/A	MFS_P_T	FEE ACQUISITION W/O ACCESS

ROADWAY

CELL	NAME	DESCRIPTION
	RES P	ELEVATION, SPOT
	RGA	GUIDE RAIL, ANCHOR
	RGP	GUIDE POST, SINGLE

SIGNS

CELL	NAME	DESCRIPTION
	S	SINGLE POST
	S_P	SINGLE POST, PROPOSED
	SB_P	BACK TO BACK, PROPOSED
	SDEL	DELINEATORS
	SPM	PARKING METER
RFM	SRM	REFERENCE MARKERS
	SRSC3	SHLD, CTY, 123 DIG.
	SRSC4	SHLD, CTY, 4 DIG.
	SRSCT2	SHLD, CTY TOUR, 1-2 DIG.
	SRSCT4	SHLD, CTY TOUR, 3-4 DIG.
	SRSI	SHLD, INTERSTATE
	SRSN2	SHLD, NATIONAL, 2 DIG.
	SRSN3	SHLD, NATIONAL, 3 DIG.
	SRSS2	SHLD, STATE, 2 DIG.
	SRSS3	SHLD, STATE, 3 DIG.
	SRSS4	SHLD, STATE, 4 DIG.

TRAFFIC CONTROL

CELL	NAME	DESCRIPTION
	TCBJ	BOX, JUNCTION
	TCBP	BOX, PULL BOX
	TCBS	BOX, SPLICE
	TCMC	MICROCOMPUTER CABINET
	TCPP	PED POLE
	TCSH	SIGNAL HEADS
	TCSP	SIGNAL POLE

TRAFFIC WORK ZONE

CELL	NAME	DESCRIPTION
	TWZAP_P	ARROW PANEL
	TWZAPC_P	ARROW PANEL, CAUTION MODE
	TWZAPT_P	ARROW PANEL, TRAILER OR SUPPORT
	TWZBCD_P	BARRICADE (TYPE III)
	TWZCMS_P	CHANGEABLE MESSAGE SIGN (PVMS)
	TWZFLG_P	FLAGGER
	TWZFT_P	FLAG TREE
	TWZIA_P	IMPACT ATTENUATOR / CRASH CUSHION (TEMPORARY)
	TWZLUM_P	LUMINAIRE (TEMPORARY)
	TWZSDT_P	SYMBOL, DIRECTION OF TRAFFIC
	TWZSDTD_P	SYMBOL, DIRECTION OF TEMPORARY TRAFFIC DETOUR
	TWZSGN_P	SIGN (TEMPORARY)
	TWZSIG_P	SIGNAL, TRAFFIC OR PEDESTRIAN (TEMPORARY)
	TWZWL_P	WARNING LIGHT
	TWZWV_P	WORK VEHICLE
	TWZWVA_P	WORK VEHICLE WITH TRUCK MOUNTED ATTENUATOR

UTILITIES

CELL	NAME	DESCRIPTION
	UEB	ELECTRIC, BOX
	UEM	ELECTRIC, METER
	UEMH	ELECTRIC, MANHOLE
	UEPT	ELECTRIC, POLE, TRANS.
	UGM	GAS, METER
	UGMH	GAS, MANHOLE
	UGLM	GAS, LINE MARKER
	UGP	GAS/FUEL PUMP
	UGV	GAS, VALVE
	UGVT	GAS, VENT
	ULP	LIGHTING, POLE
	ULPM	LIGHTING, POLE, MEDIAN
	ULPP	LIGHTING, POLE, PED.
	UMFC	MISC. FILLER CAP
	UOLM	OIL, LINE MARKER
	UP	POLE, WITH UTILITY
	UPD	POLE, DEAD (NO UTILITY)
	UPL	POLE, WITH LIGHT
	USMH	SANITARY SEWER MANHOLE
	UTB	TELEPHONE, BOOTH
	UTLM	TELEPHONE, LINE MARKER
	UTMH	TELEPHONE, MANHOLE
	UTVLM	CABLE TV, LINE MARKER
	UTVPB	CABLE TV, PULL BOX
	UUB	UNKNOWN, BOX
	UUJB	UNKNOWN, JUNCTION BOX
	UUMH	UNKNOWN, MANHOLE
	UUPB	UNKNOWN, PULL BOX
	UUVL	UNKNOWN, VALVE
	UUVT	UNKNOWN, VENT
	UUW	UNKNOWN, WELL
	UWFH	WATER, FIRE HYDRANT
	UWM	WATER, METER
	UWMH	WATER, MANHOLE
	UWV	WATER, VALVE
	UWW	WATER, WELL

REV	DESCRIPTION	DATE	BY
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FA PROJECT NO. 121033
PROJECT MANAGER R. BENNETT
DRAWN BY T. DAVIS
SCALE AS SHOWN
ISSUE DATE JULY 2014

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PROJECT
CENTER CITY TWO-WAY CONVERSION
SAINT PAUL STREET AND NORTH CLINTON AVENUE
BETWEEN EAST MAIN STREET AND CUMBERLAND STREET
PIN:13102
CITY OF ROCHESTER, MONROE COUNTY, NEW YORK

TITLE OF DRAWING
LEGEND - 2

DRAWING NO.
LEG-02

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Craig

GENERAL NOTES:

1. CONTRACTOR IS TO FOLLOW ALL PROVISIONS OF NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, EXCEPT FOR THOSE AS REVISED IN SPECIFICATION SECTION OF CONTRACT DOCUMENTS. REVISED SPECIFICATIONS PROVIDED IN SPECIFICATION SECTION OF CONTRACT DOCUMENTS SUPERSEDES APPROPRIATE STANDARD SPECIFICATION.

2. CONTRACTOR IS TO USE CITY OF ROCHESTER STANDARD DETAILS, EXCEPT FOR THOSE PROVIDED IN CONTRACT DRAWINGS. DETAILS PROVIDED IN CONTRACT DRAWINGS SUPERSEDE APPROPRIATE STANDARD DETAIL.

3. LOCATIONS OF EXISTING UTILITIES BOTH ABOVE GROUND AND BELOW GROUND THAT ARE SHOWN IN CONTRACT DRAWINGS ARE APPROXIMATE ONLY, AND ARE NOT GUARANTEED TO BE ACCURATE OR COMPLETE. ALL EXISTING UTILITIES SHOWN WERE PLOTTED FROM FIELD SURFACE SURVEY DATA AND IN CONJUNCTION WITH RECORD MAPPING SUPPLIED BY RESPECTIVE UTILITY COMPANY. BEFORE COMMENCING ANY WORK, IT IS RESPONSIBILITY OF CONTRACTOR TO HAVE LOCATION OF ALL EXISTING UTILITIES LOCATED WITHIN WORK AREA VERIFIED BY RESPECTIVE UTILITY COMPANY. CONTRACTOR IS TO REQUEST A UTILITY STAKE OUT MINIMUM OF 48 HOURS IN ADVANCE OF COMMENCING ANY WORK, BY CALLING DIG SAFELY NEW YORK, UFPO AT (800) 962-7962.

4. ALL RIGHT-OF-WAY MONUMENTS AND PROPERTY CORNERS ARE TO BE PROTECTED, SAFEGUARDED AND PRESERVED. ALL RIGHT-OF-WAY MONUMENTS OR PROPERTY CORNERS THAT ARE DISTURBED BY CONTRACTOR OPERATIONS DURING CONSTRUCTION OF PROJECT ARE TO BE REPLACED BY NYS LICENSED SURVEYOR, AT CONTRACTOR EXPENSE.

5. SAW CUTS MADE IN ROADWAY ARE TO BE FULL DEPTH, WITH ALL OTHER SAW CUTS BEING MINIMUM OF 2 INCHES IN DEPTH. SAW CUTS WILL BE PAID FOR UNDER ITEM 627.50140008, OR INCLUDED IN RESPECTIVE WORK RELATED ITEM, AS INDICATED IN CONTRACT DOCUMENTS. ALL SAW CUTS ARE TO BE SEALED WITH AN ASPHALT FILLER PER NYSDOT MATERIAL DESIGNATION 702-0500 OR 702-3401, COST OF WHICH IS TO BE INCLUDED IN UNIT PRICE BID FOR RESPECTIVE WORK RELATED ITEM.

6. CONTRACTOR IS TO PROVIDE PROTECTION OF EXISTING TREES ADJACENT TO RECONSTRUCTION WORK THROUGHOUT COURSE OF PROJECT, TO MINIMIZE AS MUCH AS POSSIBLE ANY DAMAGE FROM OCCURRING TO EXISTING TREES AS RESULT OF CONTRACTOR OPERATIONS. TREE PROTECTION IS TO CONSIST OF ORANGE CONSTRUCTION SAFETY FENCING PLACED AROUND AND COMPLETELY ENCOMPASSING EACH EXISTING TREE, AND IS TO BE IN PLACE BEFORE ANY WORK IS STARTED, PER DETAIL ON SHEET MD-02 AND CONTRACT DOCUMENTS. CONTRACTOR IS TO BE AWARE OF AND FAMILIAR WITH REQUIREMENTS OF SECTIONS 89-9 TREES AND 89-12 PENALTIES OF CITY CODE AS THEY WILL BE STRICTLY ADHERED TO.

7. TEMPORARY PAVEMENT PLACEMENT DURING WINTER SEASON, NOVEMBER 1ST THRU APRIL 14TH. IF HOT MIX ASPHALT MATERIAL IS NOT AVAILABLE FOR CONSTRUCTING TEMPORARY PAVEMENT SECTION, CONTRACTOR IS TO USE CLASS F CONCRETE. IF PROJECT CALLS FOR USING ASPHALT TEMPORARY PAVEMENT SECTION, AND PROJECT EXTENDS INTO WINTER SEASON, CONTRACTOR WILL BE REQUIRED TO USE TEMPORARY PAVEMENT SECTION CONSISTING OF CONCRETE REGARDLESS OF WHICH ITEM HAS BEEN BID FOR WORK. CONCRETE SECTION IS TO BE 4 INCHES THICK FOR STREETS DESIGNATED AS ARTERIAL AND COLLECTOR STREETS, AND 3 INCHES THICK FOR STREETS DESIGNATED AS LOCAL RESIDENTIAL STREETS AND FOR ALLEYS. CONCRETE IS TO BE BROOM FINISHED.

8. SIDEWALK ACCESS RAMPS ARE TO BE OF TYPE NOTED, AND LOCATED AS SHOWN IN CONTRACT DRAWINGS. HEADER CURB FOR SIDEWALK ACCESS RAMP IS TO BE 5 FEET LONG, WITH TRANSITION CURBS BEING FROM 3 TO 7 FEET IN LENGTH.

9. EXISTING PAVED AREAS THAT ARE NO LONGER NEEDED, ARE TO BE REMOVED AS DESIGNATED IN CONTRACT DRAWINGS. EXCAVATE TO DEPTH THAT IS SUFFICIENT TO REMOVE EXISTING MATERIAL. BACKFILL EXCAVATED AREA TO WITHIN 4 INCHES OF FINISHED GRADE WITH SELECT BACKFILL MATERIAL EXCAVATED FROM PROJECT SITE. PLACE 4 INCHES TOPSOIL, FINISH GRADE AREA AND HYDROSEED. PER ITEM 610.1402, ITEM 610.1601 AND NYSDOT SECTION 203 EXCAVATION AND EMBANKMENT.

10. CONTRACTOR MUST CONTACT MCDOT DISPATCHER AT (585) 753-7750 MINIMUM OF 5 WORKING DAYS PRIOR TO REMOVING OR RESETTING ANY TRAFFIC AND PARKING REGULATION SIGNS.

11. ALL SHOP DRAWINGS FOR THIS PROJECT SHALL BE IN U.S. CUSTOMARY UNITS.

12. THE COST OF WATER USED FOR COMPACTION OF SELECT FILL ITEMS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR FILL ITEMS. NO SEPARATE PAYMENT WILL BE MADE.

13. THE COST OF ALL JOINT MATERIAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE VARIOUS ITEMS OF THE CONTRACT, UNLESS OTHERWISE SPECIFIED ON THE PLANS.

14. UNLESS OTHERWISE INDICATED ON THE PLANS, WORK TO BE PERFORMED UNDER THIS CONTRACT DOES NOT REQUIRE THE DISTURBING, DESTRUCTION OR REMOVAL OF ANY KNOWN MATERIALS CONTAINING ASBESTOS. UNLESS OTHERWISE INDICATED ON THE PLANS, IT IS THE EXPRESS INTENT OF THIS CONTRACT THAT THESE MATERIALS NOT BE DISTURBED IN ANY WAY. SHOULD THE CONTRACTOR BE FORCED TO DISTURB IN ANY WAY ANY SUCH MATERIALS, THE CONTRACTOR SHALL FIRST BE FAMILIAR WITH INDUSTRIAL CODE RULE 56 OF THE N.Y.S. DEPARTMENT OF LABOR. THE CONTRACTOR SHALL ALSO OBTAIN WRITTEN PERMISSION OF THE ENGINEER BEFORE PROCEEDING.

15. NO ADDITIONAL PAYMENT WILL BE MADE FOR WORK CALLED FOR BY NOTES ON THE PLANS OR IN THE SPECIFICATIONS UNLESS PAYMENT IS SPECIFICALLY INDICATED BY ITEM NUMBER. THE COST OF WORK FOR WHICH NO PAYMENT ITEM IS INDICATED SHALL BE INCLUDED IN THE UNIT PRICES BID FOR VARIOUS ITEMS OF THE CONTRACT.

16. CONTACT INFORMATION FOR UTILITY COORDINATION AS NEEDED:

RG&E GAS MEGHANN KENDALL 585-724-8331	RG&E ELECTRIC WILLIAM STIEWE 585-724-8679	CITY STREET LIGHTING JOSEPH BORRELLI 585-428-7979
MONROE COUNTY LIGHTING STEVEN RICHARDSON 585-753-7641	CITY FORESTRY RICK REBAR 585-428-1218	MONROE COUNTY PURE WATERS RICH BIANCHI 585-753-7614
CITY BUREAU OF WATER MIKE BUSHART 585-428-7567	FRONTIER TELEPHONE JASON OUTHOUSE 585-777-5203	MCI FIBER THOMAS PACIA 585-797-2016
MONROE COUNTY DOT TOM FRYS 585-753-7741	FIBERTECH JAMES HIGHSMITH 585-697-5145	REDFLEX TRAFFIC SYSTEMS SELECIA WALKER 623-207-2507

ROCHESTER PURE WATERS DISTRICT (RPWD) NOTES:

1. CONSTRUCT ALL SEWERS, LATERALS, CATCH BASINS, MANHOLES, AND APPURTENANCES IN CONFORMANCE WITH THE REQUIREMENTS OF THE ROCHESTER PURE WATERS DISTRICT AS PER MONROE COUNTY SPECIFICATION BOOK: "REQUIREMENTS FOR PRIVATELY CONSTRUCTED SEWERS IN THE ROCHESTER PURE WATERS DISTRICT", SECOND EDITION, 1992.

2. CONTRACTOR IS TO TAKE APPROPRIATE MEASURES TO PREVENT DIRT, DEBRIS AND CONSTRUCTION MATERIALS FROM ENTERING SEWER APPURTENANCES (SEWER MAIN, LATERAL, CATCH BASINS AND MANHOLES) DURING CONSTRUCTION OF PROJECT.

3. RPWD WILL LOCATE AND MARK EXISTING LATERALS AT THE REQUEST OF THE CONTRACTOR. THE RPWD IS ONLY ABLE TO MARK THE WYE LOCATION AT THE MAIN SEWER, AND CANNOT VERIFY THE LOCATION OF THE LATERAL BACK TO THE R.O.W. CONTRACTOR MAY REQUEST A LATERAL STAKEOUT BY CONTACTING MCPW MAPS AND RECORDS ROOM AT 1 585-753-7367.

4. RPWD IS TO BE NOTIFIED IMMEDIATELY IN THE EVENT OF ANY DAMAGE TO SEWER APPURTENANCES BY CALLING 1-585-753-7351. ALL REPAIRS ARE TO BE PERFORMED IN THE PRESENCE OF A REPRESENTATIVE OF RPWD, AND ARE TO BE MADE AS PER RPWD SPECIFICATIONS.

5. IN THE EVENT THAT EXISTING SEWER MAINS OR LATERAL PIPES ARE BROKEN DURING EXCAVATION, ANY AND ALL REPAIRS MUST BE EXTENDED LINEARLY. INTRODUCING NEW BENDS IN PIPE WILL NOT BE PERMITTED. ALL 5 INCH INSIDE DIAMETER LATERAL PIPE MUST BE REPAIRED USING 5 INCH SERVICE WEIGHT CAST IRON PIPE AND TWO FERNCOS. CONTRACTOR MAY BE PERMITTED TO USE OAKUM AND EPOXY MORTAR TO CONNECT NEW PVC PIPE TO AND EXISTING BELL THAT IS IN GOOD CONDITION.

6. STONE BEDDING MATERIAL USED FOR SEWER MAIN AND LATERAL PIPE REPAIRS IS TO BE CLASS B CONSISTING OF #1 AND #2 WASHED STONE AT A MINIMUM OF 6 INCH DEPTH.

7. CONTRACTOR WILL REPLACE ALL EXISTING SEWER MANHOLE FRAMES AND COVERS (AS PER CONTRACT) WITH NEW 9" FRAMES AND COVERS. CONTRACTOR WILL BE RESPONSIBLE FOR THE PURCHASING AND DELIVERY OF THE FRAMES AND COVERS. FRAMES AND COVERS WILL MEET RPWD SPECIFICATIONS (A.S.T.M. A48 (LATEST REVISION) CLASS 30B). CONTRACTOR IS TO ADD/REMOVE ADDITIONAL COURSES OF BRICK/BLOCK AS/IF REQUIRED TO RETROFIT NEW FRAMES ONTO EXISTING MANHOLE STRUCTURES AT THE REQUIRED FINISHED GRADE.

8. WHERE AND EXISTING CATCH BASIN IS TO BE REMOVED, ALL PORTIONS OF THE CATCH BASIN WALLS AND FOUNDATION ARE TO BE REMOVED AND THE EXISTING LATERAL ABANDONED AS PER RPWD SPECIFICATIONS.

9. ALL REMOVED SEWER MANHOLE FRAMES AND COVERS AND CATCH BASIN GRATES, ACCESS COVERS, AND CAPSTONES ARE THE PROPERTY OF THE ROCHESTER PURE WATERS DISTRICT. RETURN ITEMS TO THE MCPW FLEET CENTER, 145 PAUL ROAD, ROCHESTER, NEW YORK, MONDAY THROUGH FRIDAY BETWEEN 8:00 A.M. AND 3:00 PM AT NO COST TO THE OWNER.

10. CONTRACTOR IS TO NOTIFY MCPW BY CALLING (585)753-7600, OPTION 5, MINIMUM OF 48 HOURS IN ADVANCE WHEN PLANNING ON WORKING ADJACENT TO EXISTING MC FIBER OPTIC FACILITIES.

TRAFFIC SIGNAL NOTES

1. CONTRACTOR SHALL COORDINATE WITH MONROE COUNTY DEPARTMENT OF TRANSPORTATION (MCDOT) TO ACCOMMODATE ANY MODIFICATIONS TO THIS PLAN AND TO ESTABLISH THE PHASING AND TIMING OF THE TRAFFIC SIGNAL.

2. THE CONTRACTOR SHALL CONTACT MCDOT A MINIMUM OF 2 WEEKS PRIOR TO COMMENCEMENT OF WORK.

3. ALL TRAFFIC SIGNAL RELATED WORK SHALL BE ACCOMPLISHED IN ACCORDANCE WITH MONROE COUNTY DEPARTMENT OF TRANSPORTATION STANDARD DETAILS, UNLESS AMENDED IN THE CONTRACT DOCUMENTS.

4. WORK TO BE PERFORMED UNDER ITEM 619.1611 - MAINTAIN TRAFFIC SIGNAL EQUIPMENT (REQUIREMENT A) SHALL INCLUDE, BUT IS NOT LIMITED TO THE FOLLOWING:
-COVERING ADJUSTMENT, RELOCATION, REMOVAL OF TRAFFIC SIGNAL HEADS (AND PEDESTRIAN SIGNAL HEADS) AS REQUIRED FOR EACH PHASE OF TRAFFIC OPERATIONS.
- INSTALLATION AND CONNECTION OF TEMPORARY OVERHEAD SIGNAL CABLES, AS NEEDED, TO MAINTAIN CONTINUOUS TRAFFIC SIGNAL OPERATION WHILE UNDERGROUND CONDUIT LINES ARE OUT OF SERVICE.

5. CONTRACTOR SHALL REFER TO TRAFFIC SIGNAL ESTIMATE OF QUANTITIES FOR SIGNAL-RELATED ITEMS.

6. THE CONTRACTOR SHALL COORDINATE TRAFFIC SIGNAL POWER POINT LOCATIONS WITH RG&E AND MCDOT DURING THE PRECONSTRUCTION AND CONSTRUCTION PHASES.

7. MONROE COUNTY WILL SPOT LOCATE ALL SIGNAL POLES AND SIGNAL HEADS.

8. CONTRACTOR SHALL REFER TO THE MONROE COUNTY STANDARD SHEETS WHEN DOING WORK.

9. EACH AND EVERY CABLE ENTERING THE CONTROLLER CABINETS AND PULLBOXES SHALL BE IDENTIFIED BY FUNCTION AND DESTINATION STAMPED ON APPROVED TAGS. THE TAGS SHALL BE ATTACHED TO THE CABLES WITH STAINLESS STEEL WIRE, PLASTIC OR NYLON LINE.

10. MODIFY TRAFFIC SIGNAL INSTALLATION (ITEM 680.770XXX05) IS INTENDED FOR THE MODIFICATION AND RE-USE OF TRAFFIC SIGNAL EQUIPMENT. THIS EQUIPMENT SHALL INCLUDE ALL OVERHEAD SIGNS AND SIGNALS INCLUDING MOUNTING HARDWARE, CONTROLLER CABINETS AND THE RE-PROGRAMMING OF CONTROLLERS TO ACCEPT NEW WIRING. EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE SALVAGED AND MAINTAINED IN GOOD WORKING ORDER BY THE CONTRACTOR.

11. WHERE NEW CONDUIT IS TO BE SPLICED TO EXISTING CONDUIT THE COST TO JOIN THE CONDUIT SECTIONS SHALL BE INCLUDED IN THE CONDUIT ITEMS.

12. CONTRACTOR TO FIELD VERIFY SIZE AND QUANTITY OF EXISTING UNDERGROUND SIGNAL CONDUIT PRIOR TO SPLICING WITH NEW CONDUIT.

RECONSTRUCTION NOTES:

1. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT, DUE TO THE NATURE OF RECONSTRUCTION PROJECTS, THE EXACT EXTENT OF RECONSTRUCTION WORK CANNOT ALWAYS BE ACCURATELY DETERMINED PRIOR TO THE COMMENCEMENT OF WORK. THESE CONTRACT DOCUMENTS HAVE BEEN PREPARED BASED ON FIELD INSPECTION AND OTHER INFORMATION AVAILABLE AT THE TIME. ACTUAL FIELD CONDITIONS MAY REQUIRE MODIFICATIONS TO CONSTRUCTION DETAILS AND WORK QUANTITIES. THE CONTRACTOR SHALL PERFORM THE WORK IN ACCORDANCE WITH FIELD CONDITIONS.

2. THE CONTRACTOR SHALL PERFORM ALL WORK WITH CARE SO THAT ANY MATERIALS WHICH ARE TO REMAIN IN PLACE, OR WHICH ARE TO REMAIN THE PROPERTY OF THE CITY, WILL NOT BE DAMAGED. IF THE CONTRACTOR DAMAGES ANY MATERIALS WHICH ARE TO REMAIN IN PLACE OR WHICH ARE TO REMAIN THE PROPERTY OF THE CITY, THE DAMAGED MATERIALS SHALL BE REPAIRED OR REPLACED IN A MANNER SATISFACTORY TO THE ENGINEER AT THE EXPENSE OF THE CONTRACTOR.

3. WHENEVER ITEMS IN THE CONTRACT REQUIRE MATERIALS TO BE REMOVED AND DISPOSED OF, THE COST OF SUPPLYING A DISPOSAL AREA AND TRANSPORTATION TO THAT AREA SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THOSE ITEMS.

WORK ZONE TRAFFIC CONTROL NOTES:

1. GENERAL WORK ZONE TRAFFIC CONTROL WILL BE REQUIRED FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE TO FURNISH AND ERECT, MOVE AND REMOVE REFLECTORIZED CONSTRUCTION SIGNS, BARRICADES, PAVEMENT DELINEATION, AND EQUIPMENT NECESSARY TO SAFELY DIRECT MOTORISTS AND PEDESTRIANS A.O.B.E.

2. WORK ZONE TRAFFIC CONTROL MUST COMPLY WITH THE NATIONAL MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES WITH NEW YORK STATE SUPPLEMENT, SECTION 619 OF THE CURRENT NYSDOT STANDARD SPECIFICATIONS, THESE PLANS AND AS ORDERED BY THE RESIDENT ENGINEER.

3. NO NIGHT WORK SHALL BE ALLOWED UNLESS APPROVED PRIOR TO THE START OF THE PROJECT. ADDITIONAL WORK ZONE TRAFFIC CONTROL MAY BE REQUIRED INCLUDING THE ADDITION OF REFLECTIVE MATERIAL AND LIGHTING.

4. WHEN TRAFFIC IS TO BE MAINTAINED ON A MILLED SURFACE PRIOR TO TOP COURSE PLACEMENT, TEMPORARY OR INTERIM PAVEMENT MARKING STRIPES (TRAFFIC PAINT), ITEMS 619.0901 AND 619.100101 RESPECTIVELY, SHALL BE USED PER NYSDOT SECTION 619 TO ESTABLISH TRAFFIC PATTERNS.

5. WHEN TRAFFIC IS TO BE MAINTAINED ON THE FINAL TOP COURSE PAVEMENT PRIOR TO FINAL PAVEMENT MARKING PLACEMENT, TEMPORARY OR INTERIM PAVEMENT MARKING STRIPES (REMOVABLE TAPE), ITEMS 619.0903 AND 619.100103 RESPECTIVELY, SHALL BE USED PER NYSDOT SECTION 619 TO ESTABLISH TRAFFIC PATTERNS.

6. SEE SHEETS TCP-8 THRU TCP-10 FOR SPECIAL PAVEMENT MARKING SEQUENCE ON MAIN STREET.

HIGHWAY NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE TO EXISTING PAVEMENT, SIDEWALK, LAWN AREAS, TREES AND OTHER EXISTING FEATURES CAUSED BY HIS OPERATION. ALL SUCH DAMAGE TO EXISTING FEATURES WHICH ARE TO REMAIN SHALL BE REPAIRED OR REPLACED IN KIND BY THE CONTRACTOR AT HIS OWN EXPENSE.

2. AT ALL PAVEMENT LIMIT LINES A BUTT JOINT SHALL BE CONSTRUCTED. THE COST TO CONSTRUCT AND SEAL THE JOINT SHALL BE INCLUDED IN THE ASSOCIATED ASPHALT ITEMS.

3. ROAD TO BE KEPT CLEAN OF DEBRIS AT ALL TIMES.

4. ROADSIDE DRAINAGE TO BE MAINTAINED AT ALL TIMES.

5. MATERIALS, EQUIPMENT AND VEHICLES ARE NOT TO BE STORED OR PARKED WITHIN THE COUNTY RIGHT-OF-WAY UNLESS THE CONTRACTOR MAKES PRIOR ARRANGEMENTS WITH THE CITY.

6. ALL MATERIALS USED WITHIN THE RIGHT-OF-WAY MUST COMPLY WITH THE CURRENT NEW YORK STATE DEPARTMENT OF TRANSPORTATION'S SPECIFICATIONS ALONG WITH ANY APPROPRIATE CURRENT NYS DEPARTMENT OF TRANSPORTATION'S STANDARD SHEETS.

7. PRIOR TO THE REMOVAL OF ANY PRIVATE SIGNS, FENCES, ETC. WITHIN THE ROW, THE CONTRACTOR SHALL GIVE THE PROPERTY OWNER(S) THREE (3) DAYS ADVANCE NOTICE.

8. THE CONTRACTOR SHALL RE-SEED ALL NON-PAVED DISTURBED AREAS UNDER ITEM 610.1601, TURF ESTABLISHMENT - ROADSIDE AND ITEM 610.1402, TOPSOIL - ROADSIDE, UNLESS SHOWN OTHERWISE.

SURVEY CONTROL NOTES:

1. COORDINATES SHOWN HEREON ARE REFERENCED TO THE NEW YORK STATE PLANE COORDINATE SYSTEM, WESTERN ZONE, TRANSVERSE MERCATOR PROJECTION, NAD83, USING GPS PROCEDURES AND THE NEW YORK STATE DOT CORS NETWORK

2. ELEVATIONS SHOWN HEREON ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (GEOID 03) USING GPS PROCEDURES. NOTES:

UTILITY NOTES:

1. EXISTING UTILITIES (LOCATIONS, SIZES AND INVERTS) SHOWN ON THE PLANS HAVE BEEN PLOTTED FROM FIELD SURVEYS AND RECORD MAPS AND ARE NOT CERTIFIED AS TO THE ACCURACY OF THEIR LOCATION OR COMPLETENESS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATIONS AND DEPTHS OF ALL UTILITIES AND STRUCTURES IN THE PATH OF OR CLOSELY PARALLEL TO, OR UNDER THE PROPOSED CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE VARIOUS UTILITY OWNERS IN AMPLE TIME FOR THEM TO LOCATE AND MARK THEIR FACILITIES. THE CONTRACTOR SHALL CALL TO HAVE A UTILITY STAKEOUT AT LEAST 48 HOURS IN ADVANCE OF COMMENCING ANY WORK.

2. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PRESERVE THE INTEGRITY OF EXISTING UTILITIES TO REMAIN AND SHALL PROVIDE UNINTERRUPTED SERVICE TO ALL USERS OF THE EXISTING UTILITIES. EXISTING UTILITIES (TO REMAIN) ENCOUNTERED IN TRENCH OR PAVEMENT RECONSTRUCTION EXCAVATIONS SHALL BE SUPPORTED AS ORDERED BY THE RESIDENT ENGINEER. THE COST FOR SUPPORTING UTILITIES SHALL BE INCLUDED IN THE PRICE BID FOR EXCAVATION.

3. THE CONTRACTOR SHALL BE REQUIRED TO COORDINATE ALL HIS CONSTRUCTION ACTIVITIES WITH ANY AFFECTED UTILITY COMPANIES.

4. ALL EXISTING SANITARY OR STORM SEWER LATERALS ENCOUNTERED DURING CONSTRUCTION SHALL BE PROTECTED FROM DAMAGE AND RECONNECTED TO MAIN SEWER AOBE.

5. THE CONTRACTOR SHALL FIELD VERIFY THE SIZE AND ELEVATION OF ALL EXISTING DRAINAGE PIPES THAT WILL BE RETAINED, PRIOR TO ORDERING NEW DRAINAGE STRUCTURES AND PIPES.

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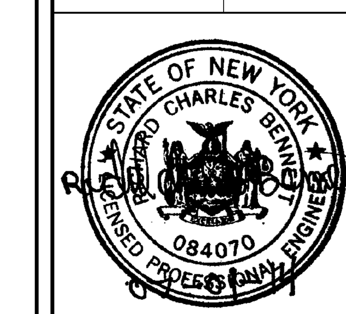
FA PROJECT NO. 121033
PROJECT MANAGER R. BENNETT
DRAWN BY T. DAVIS
SCALE AS SHOWN
ISSUE DATE JULY 2014



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PROJECT
CENTER CITY TWO-WAY CONVERSION
SAINT PAUL STREET AND NORTH CLINTON AVENUE
BETWEEN EAST MAIN STREET AND CUMBERLAND STREET
PIN:13102
CITY OF ROCHESTER, MONROE COUNTY, NEW YORK

TITLE OF DRAWING
GENERAL NOTES

DRAWING NO.
GN-01

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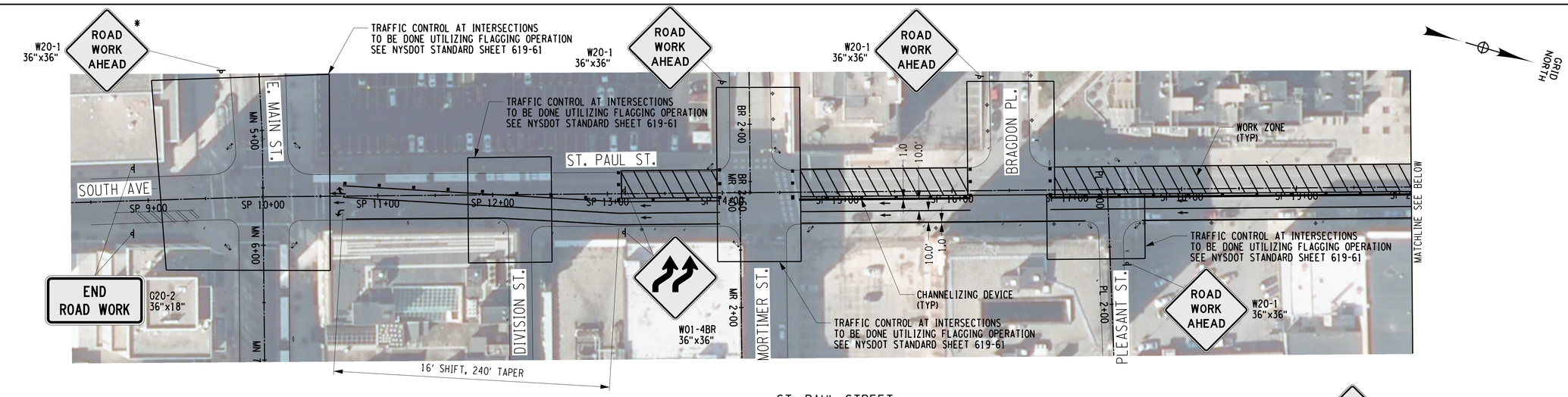
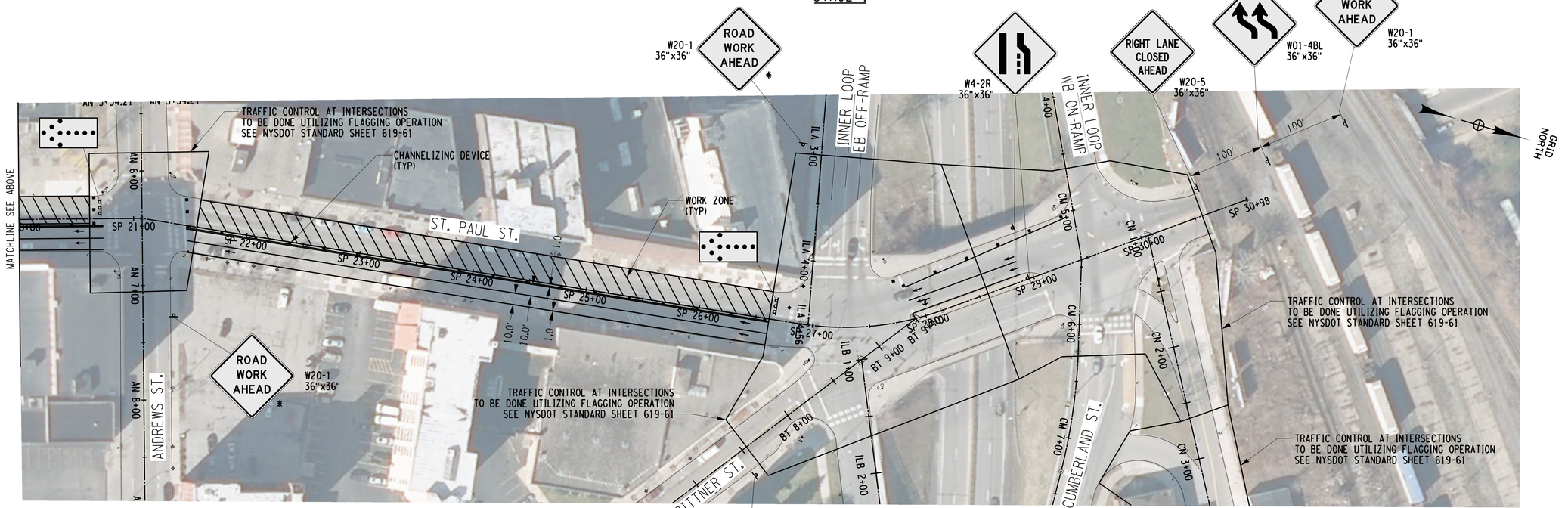


ST. PAUL STREET
STAGE 1



ST. PAUL STREET
STAGE 1

W20-1
36"x36"
ROAD
WORK
AHEAD
*

* THESE SIGNS ARE TO BE VISIBLE ONLY WHEN TRAVEL WAY IS AFFECTED BY PROPOSED WORK.

SCALE (FT)
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If an item bearing the seal of an engineer or land surveyor is altered, the altering engineer or land surveyor shall affix to the item his/her seal and the notation "altered by" followed by his/her signature and the date of such alteration, and a specific description of the alteration.

FA PROJECT NO.
121033
PROJECT MANAGER
R. BENNETT
DRAWN BY
C. CLARK
SCALE
AS SHOWN
ISSUE DATE
JULY 2014

STATE OF NEW YORK
CHARLES R. BENNETT
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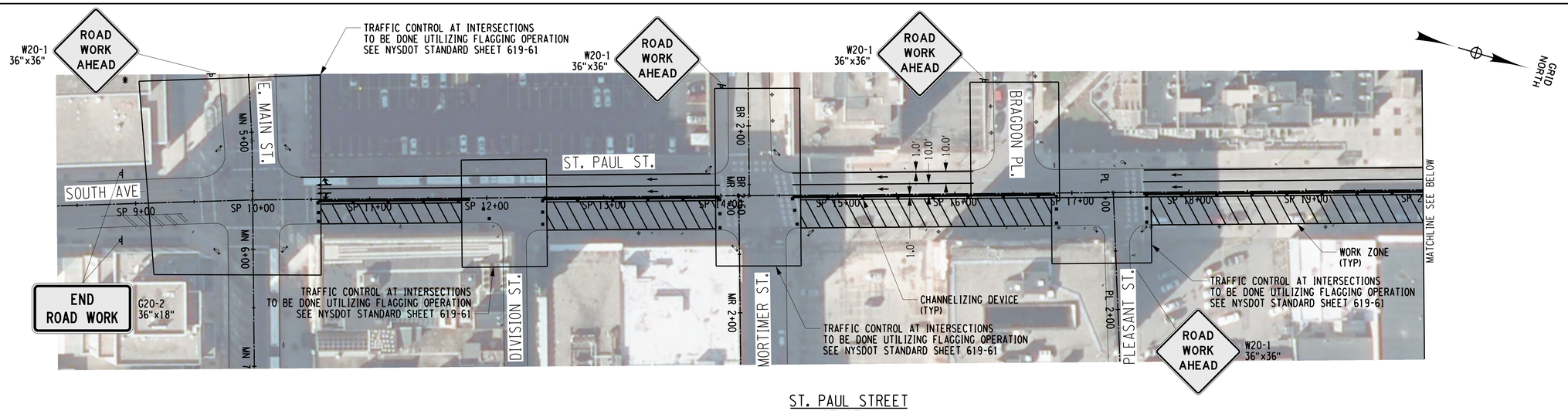
PROJECT
CENTER CITY TWO-WAY CONVERSION
SAINT PAUL STREET AND NORTH CLINTON AVENUE
BETWEEN EAST MAIN STREET AND CUMBERLAND STREET
PIN:13102
CITY OF ROCHESTER, MONROE COUNTY, NEW YORK

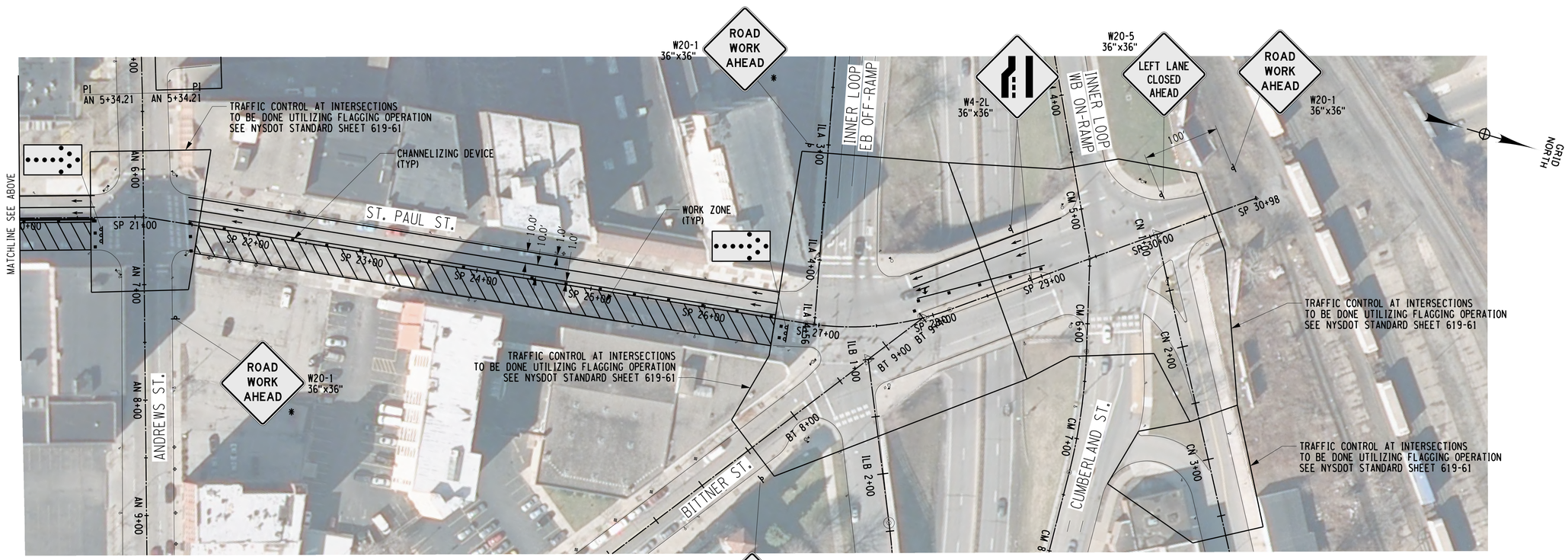
TITLE OF DRAWING
TRAFFIC CONTROL PLAN

DRAWING NO.
TCP-1

SHEET 7 OF 69



ST. PAUL STREET
STAGE 2



ST. PAUL STREET
STAGE 2

SCALE (FT)
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PROJECT MANAGER
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ISSUE DATE
JULY 2014

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PROJECT
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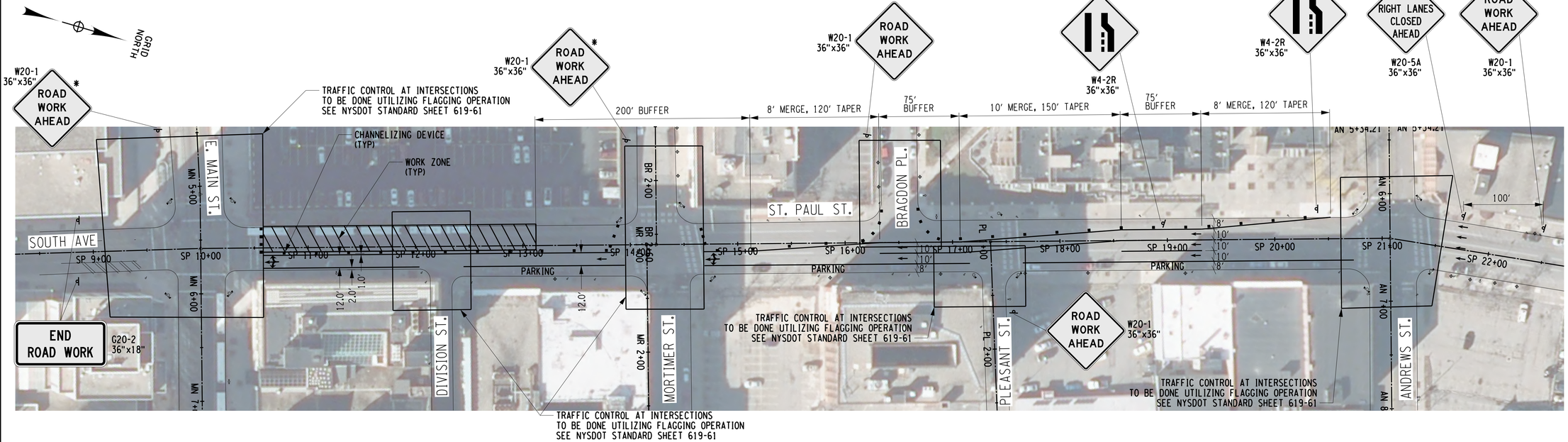
SAINT PAUL STREET AND NORTH CLINTON AVENUE
BETWEEN EAST MAIN STREET AND CUMBERLAND STREET
PIN:13102
CITY OF ROCHESTER, MONROE COUNTY, NEW YORK

TITLE OF DRAWING
TRAFFIC CONTROL PLAN

DRAWING NO.
TCP-2



ST. PAUL STREET
STAGE 3

NOTES:

1. ALL MILLING, RESURFACING AND STRIPING WORK TO BE COMPLETED USING SHORT TERM DAILY CLOSURES ONLY.
2. WORK IN THIS AREA SHALL OCCUR ON WEEKENDS ONLY OR CONCTRACTOR SHALL PROVIDE A MINIMUM OF TWO TRAVEL LANES.
3. CONTACTOR SHALL RESTORE PRECONSTRUCTION LANE CONFIGURATION DURING NON-WORK HOURS.

*** THESE SIGNS ARE TO BE VISIBLE ONLY WHEN TRAVEL WAY IS AFFECTED BY PROPOSED WORK.**

SCALE (FT)
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PROJECT
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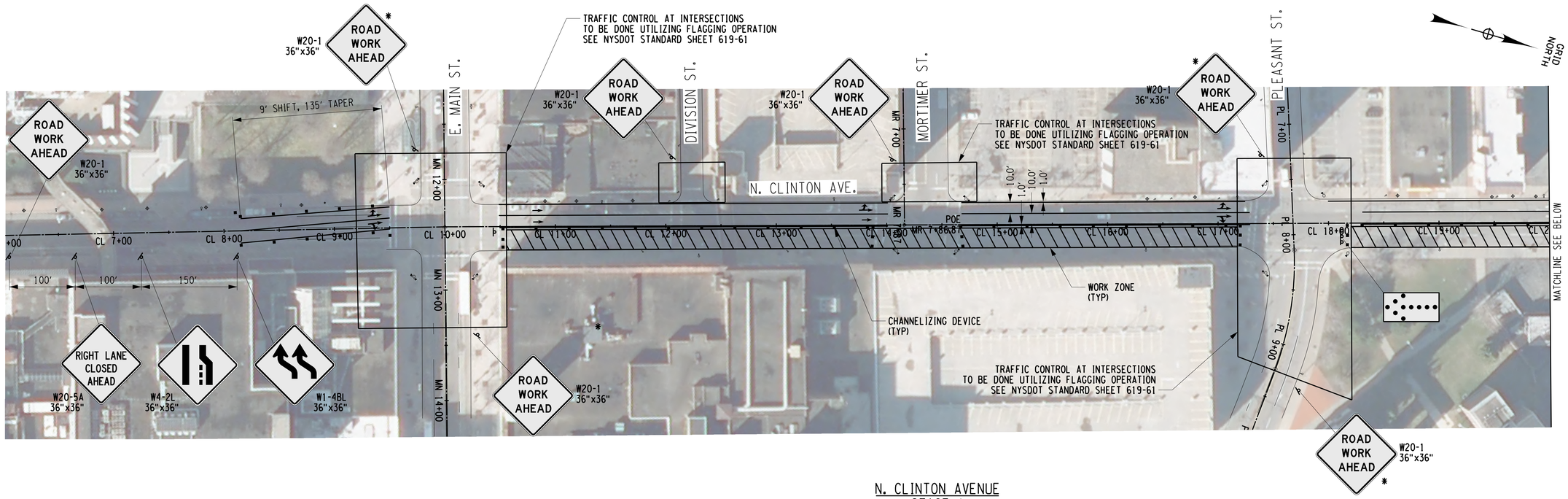
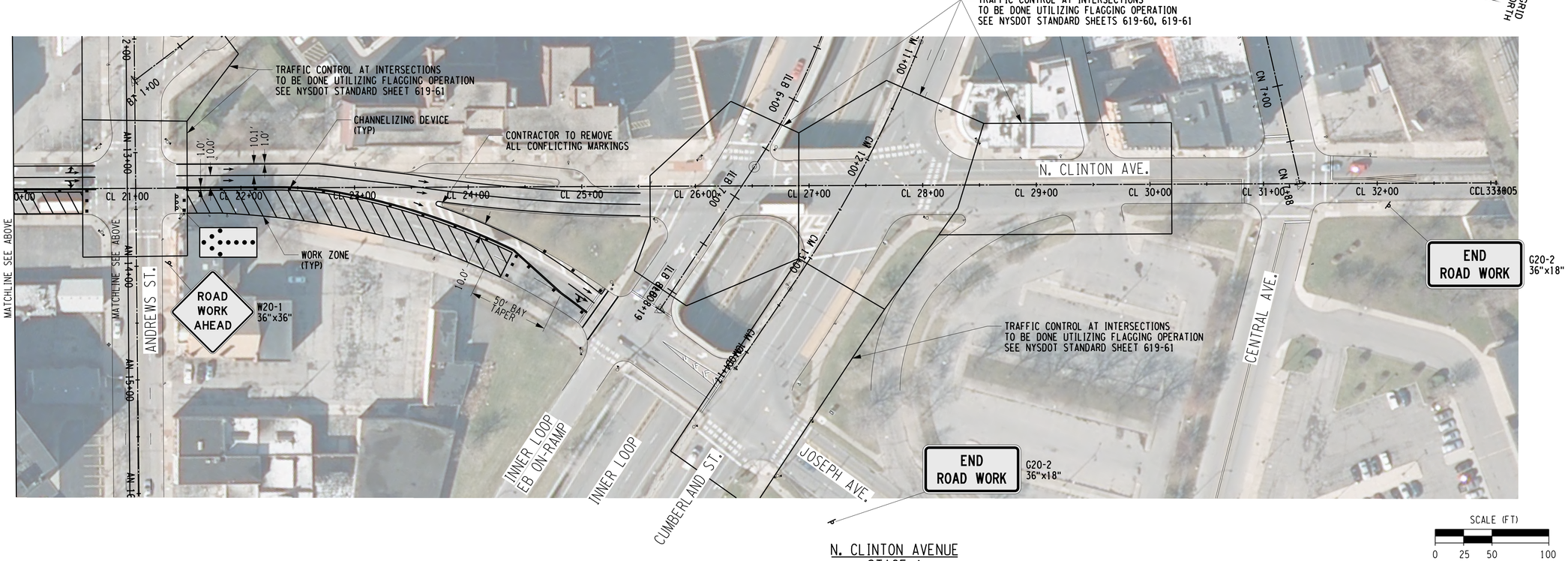
SAINT PAUL STREET AND NORTH CLINTON AVENUE
BETWEEN EAST MAIN STREET AND CUMBERLAND STREET
PIN:13102
CITY OF ROCHESTER, MONROE COUNTY, NEW YORK

TITLE OF DRAWING
TRAFFIC CONTROL PLAN

DRAWING NO.
TCP-3



N. CLINTON AVENUE
STAGE 1



N. CLINTON AVENUE
STAGE 1

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ISSUE DATE
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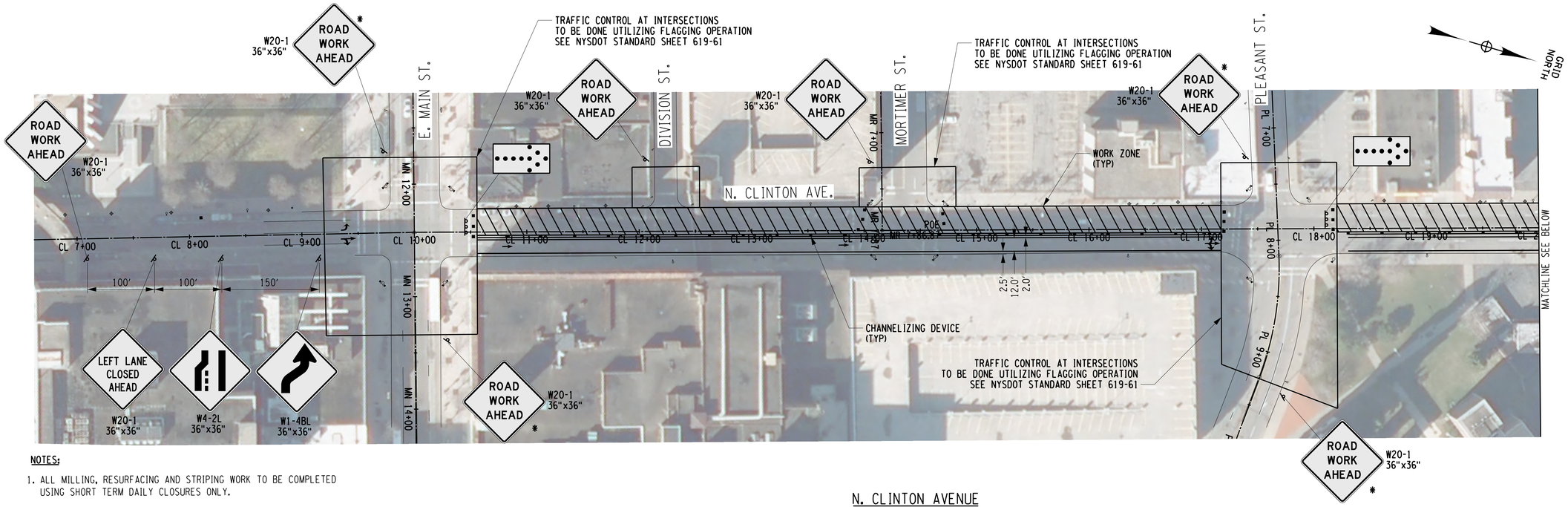
BETWEEN EAST MAIN STREET AND CUMBERLAND STREET
PIN:13102
CITY OF ROCHESTER, MONROE COUNTY, NEW YORK

TITLE OF DRAWING
TRAFFIC CONTROL PLAN

DRAWING NO.
TCP-4

SHEET 10 OF 69



NOTES:

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3. CONTACTOR SHALL RESTORE PRECONSTRUCTION LANE CONFIGURATION DURING NON-WORK HOURS.

N. CLINTON AVENUE
STAGE 2

N. CLINTON AVENUE
STAGE 2

SCALE (FT)
0 25 50 100

* THESE SIGNS ARE TO BE VISIBLE ONLY WHEN TRAVEL WAY IS AFFECTED BY PROPOSED WORK.

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121033

PROJECT MANAGER
R. BENNETT

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C. CLARK

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PATRICIO CHARLES BENNETT
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CENTER CITY TWO-WAY CONVERSION
SAINT PAUL STREET AND NORTH CLINTON AVENUE
BETWEEN EAST MAIN STREET AND CUMBERLAND STREET
PIN:13102
CITY OF ROCHESTER, MONROE COUNTY, NEW YORK

TITLE OF DRAWING
TRAFFIC CONTROL PLAN

DRAWING NO.
TCP-5

SHEET 11 OF 69

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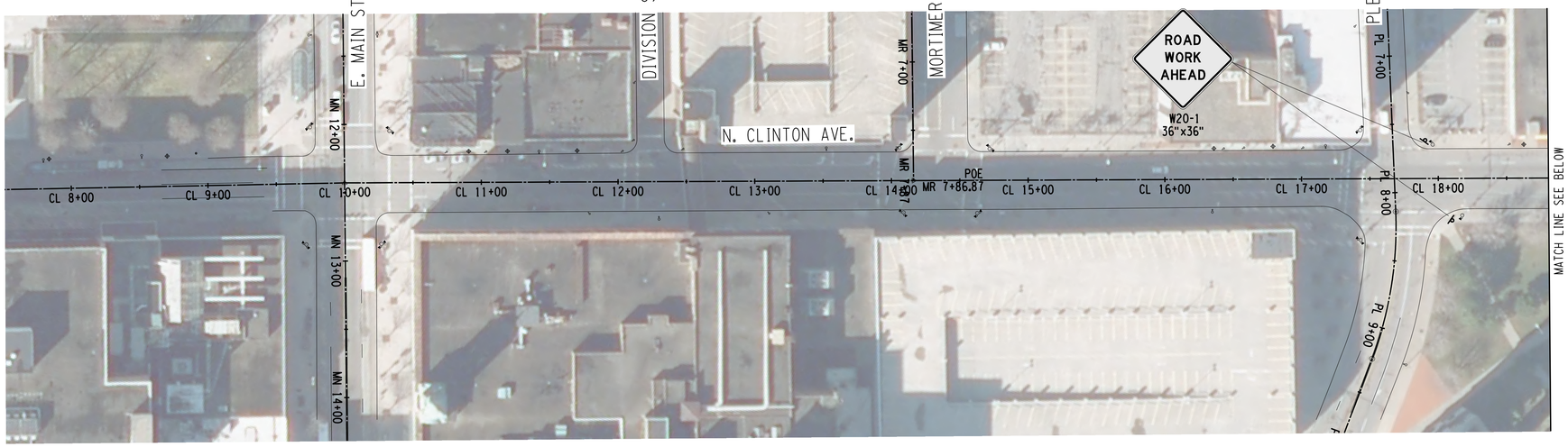

GRID NORTH

TRAFFIC CONTROL AT INTERSECTIONS TO BE DONE UTILIZING FLAGGING OPERATION SEE NYSDOT STANDARD SHEET 619-61

CHANNELIZING DEVICE (TYP)

Clinton AVE Joseph AVE

SPECIAL

CHANNELIZING DEVICE (TYP)

W12-1
36"x36"

WORK ZONE (TYP)

12' MERGE, 180' TAPER

12' MIN.

9.2'

2.8'

MATCH LINE SEE ABOVE

ANDREWS ST.

AN 1+00
AN 13+00
AN 14+00
AN 15+00
AN 17+00

CL 19+00
CL 20+00
CL 21+00
CL 22+00
CL 23+00
CL 24+00
CL 25+00
CL 26+00
CL 27+00
CL 28+00
CL 29+00
CL 30+00
CL 31+00
CL 32+00
CCL 33+05

N. CLINTON AVE.

CN 7+00
CN 7+88
CN 12+00
CN 13+00

TLB 6+00
TLB 11+00
TLB 17+00
TLB 18+00

CM 13+00
CM 13+88

INNER LOOP EB ON-RAMP

INNER LOOP

CUMBERLAND ST.

JOSEPH AVE.

CENTRAL AVE.

END ROAD WORK
G20-2
36"x18"

N. CLINTON AVENUE STAGE 3

NOTE:

1. CONTRACTOR MAY INCLUDE THIS WORK IN DETOUR ESTABLISHED FOR STAGE 4 IN LIEU OF THIS STAGE 3 PLAN.

N. CLINTON AVENUE
STAGE 3

SCALE (FT)
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PROJECT MANAGER
R. BENNETT

DRAWN BY
C. CLARK

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JULY 2014

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CHARLES R. BENNETT
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PROJECT
CENTER CITY TWO-WAY CONVERSION
SAINT PAUL STREET AND NORTH CLINTON AVENUE
BETWEEN EAST MAIN STREET AND CUMBERLAND STREET
PIN:13102
CITY OF ROCHESTER, MONROE COUNTY, NEW YORK

TITLE OF DRAWING
TRAFFIC CONTROL PLAN

DRAWING NO.
TCP-6

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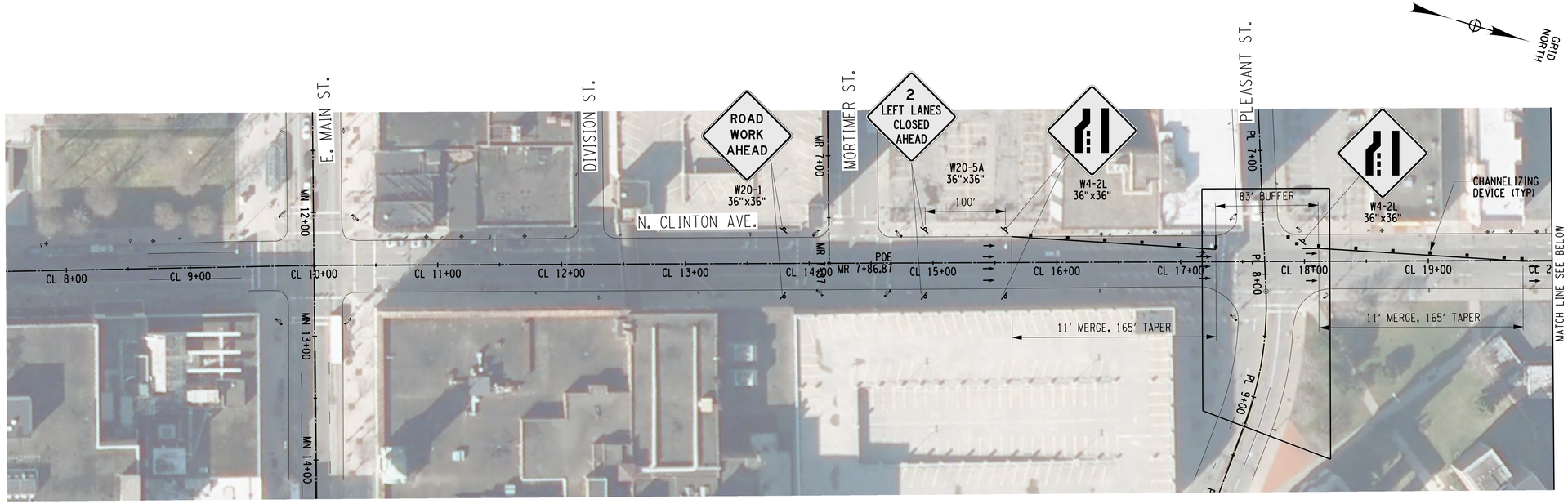
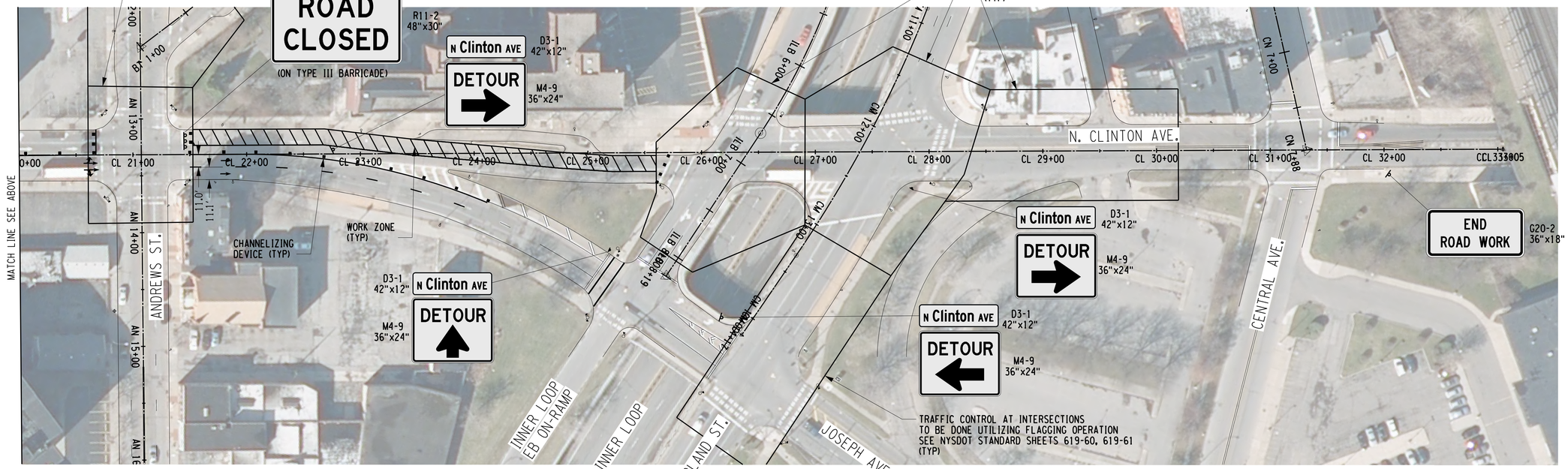


TRAFFIC CONTROL AT INTERSECTIONS
TO BE DONE UTILIZING FLAGGING OPERATION
SEE NYSDOT STANDARD SHEET 619-61 (TYP)

N. CLINTON AVENUE
STAGE 4



TRAFFIC CONTROL AT INTERSECTIONS
TO BE DONE UTILIZING FLAGGING OPERATION
SEE NYSDOT STANDARD SHEETS 619-60, 619-61
(TYP)

N. CLINTON AVENUE
STAGE 4

SCALE (FT)
0 25 50 100

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FA PROJECT NO.
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DRAWN BY
C. CLARK

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JULY 2014

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PROJECT
CENTER CITY TWO-WAY CONVERSION
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BETWEEN EAST MAIN STREET AND CUMBERLAND STREET
PIN:13102
CITY OF ROCHESTER, MONROE COUNTY, NEW YORK

TITLE OF DRAWING
TRAFFIC CONTROL PLAN

DRAWING NO.
TCP-7

SHEET 13 OF 69

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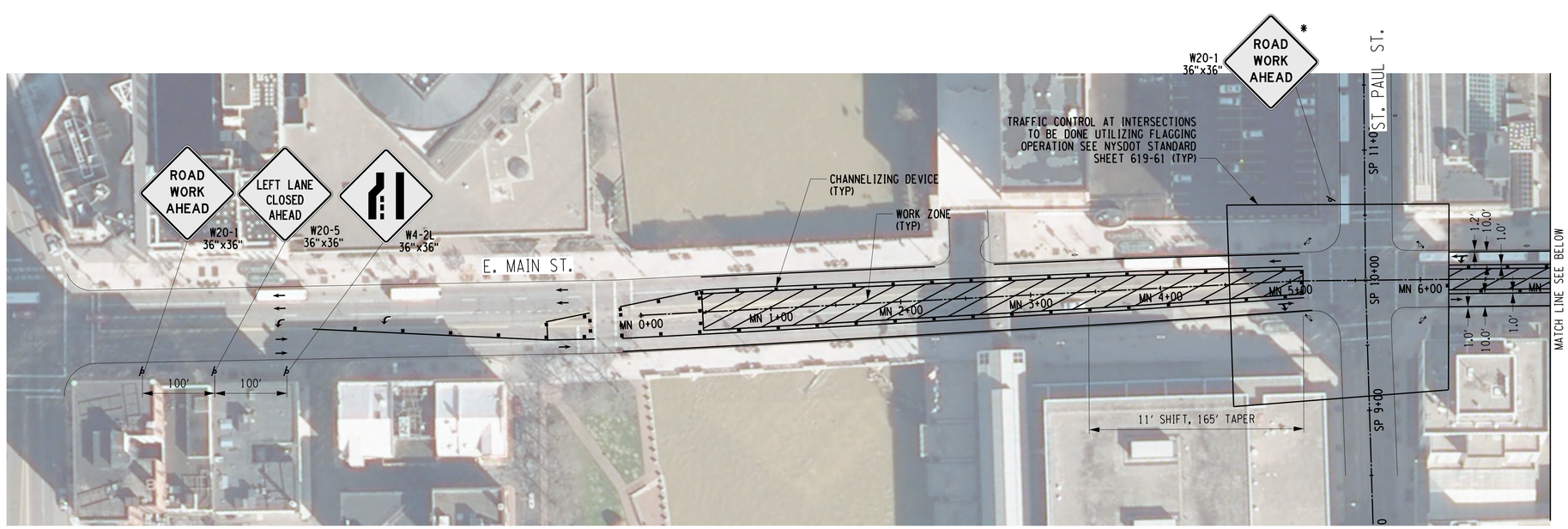
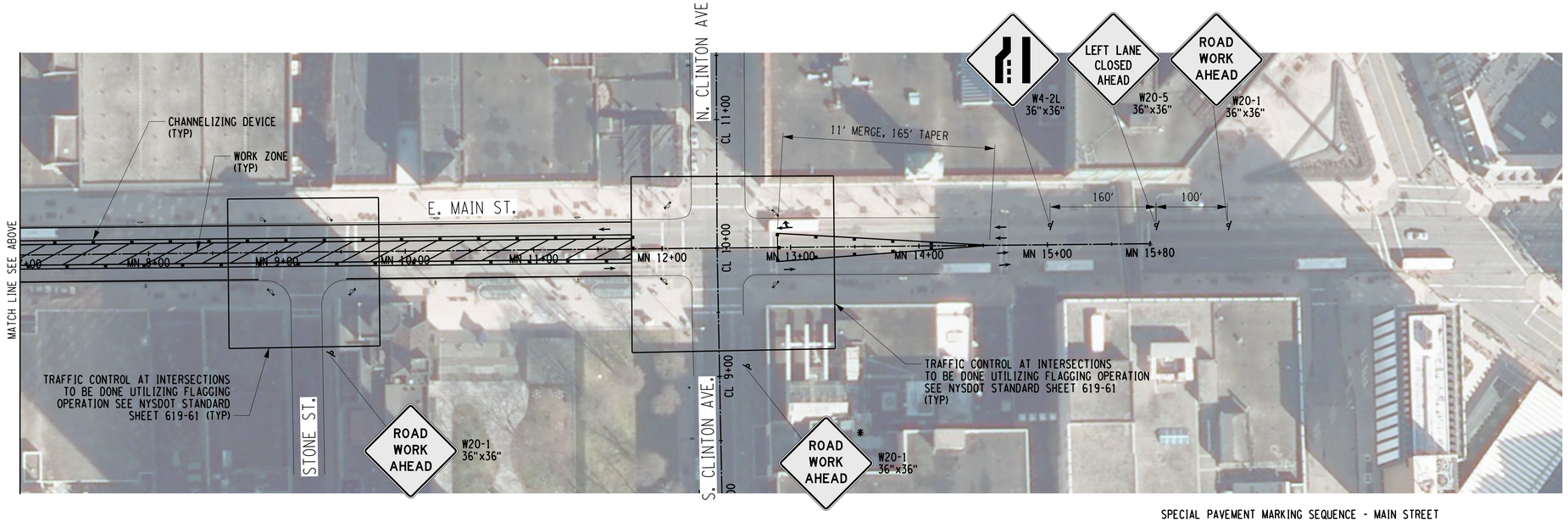


MAIN STREET
STAGE 1



MAIN STREET
STAGE 1

NOTES:

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2. CONTRACTOR SHALL MAINTAIN AT LEAST ONE TRAVEL LANE IN EACH DIRECTION AT ALL TIMES WHILE WORK IS BEING PROGRESSED.
3. WORK ON MAIN STREET SHALL OCCUR ON WEEKENDS ONLY.
4. CONTRACTOR SHALL RESTORE PRECONSTRUCTION LANE CONFIGURATIONS DURING NON-WORK HOURS.

*** THESE SIGNS ARE TO BE VISIBLE ONLY WHEN TRAVEL WAY IS AFFECTED BY PROPOSED WORK.**

SPECIAL PAVEMENT MARKING SEQUENCE - MAIN STREET

CONTRACTOR TO CLOSELY COORDINATE CONSTRUCTION AND PAVEMENT MARKING EFFORTS WITH RGRTA BUS ROUTE OPERATIONS.

FINAL PAVEMENT CONSTRUCTION ON MAIN STREET SHALL BE COMPLETED PER STAGES 1, 2 AND 3 AS SHOWN ON SHEETS TCP-8 THRU TCP-10. INTERIM PAVEMENT MARKING STRIPES AND SYMBOLS (REMOVABLE TAPE), ITEMS 619.100103 AND 619.100203 RESPECTIVELY, SHALL BE INSTALLED ON THE FINAL TOP COURSE TO RESTORE MARKINGS TO EXISTING PRECONSTRUCTION PATTERNS.

AFTER RGRTA HAS FULLY IMPLEMENTED THE NEW BUS ROUTE PATTERNS AND GIVES CONFIRMATION, THE CONTRACTOR SHALL REMOVE THE INTERIM PAVEMENT MARKINGS AND INSTALL FINAL LANE CONFIGURATIONS AND TRANSITIONS WITH THE PERMANENT PAVEMENT MARKING MATERIALS AS SHOWN ON THE PL SHEETS.

SCALE (FT)
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FA PROJECT NO.
121033

PROJECT MANAGER
R. BENNETT

DRAWN BY
C. CLARK

SCALE
AS SHOWN

ISSUE DATE
JULY 2014

STATE OF NEW YORK
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BETWEEN EAST MAIN STREET AND CUMBERLAND STREET
PIN:13102
CITY OF ROCHESTER, MONROE COUNTY, NEW YORK

TITLE OF DRAWING
TRAFFIC CONTROL PLAN

DRAWING NO.
TCP-8

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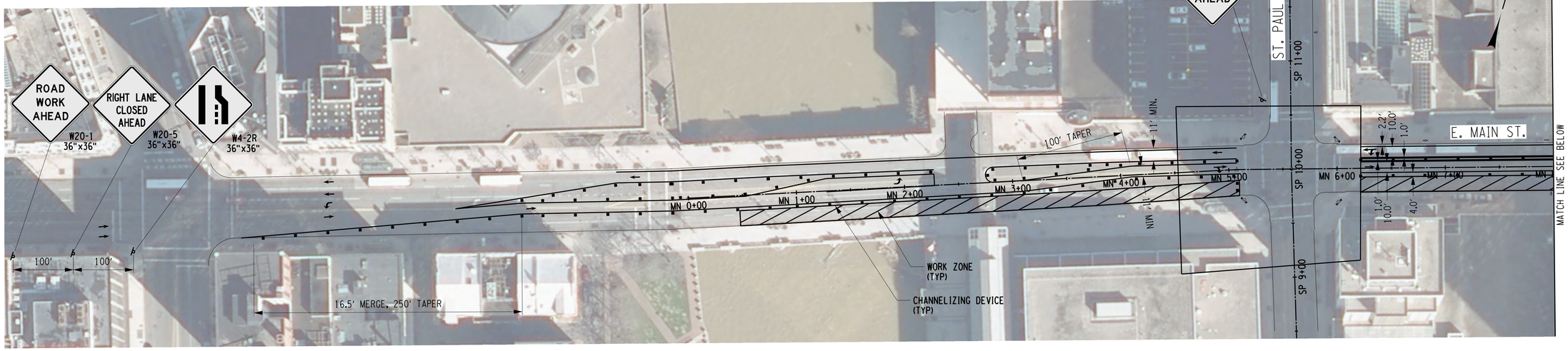
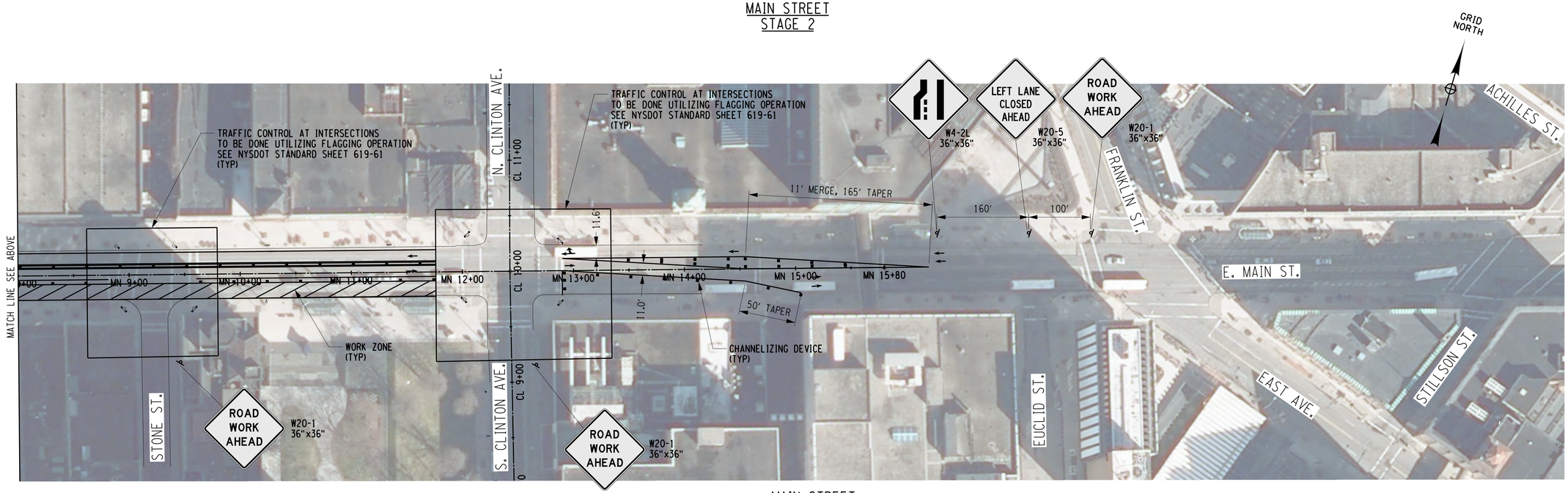


MAIN STREET
STAGE 2



MAIN STREET
STAGE 2

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SPECIAL PAVEMENT MARKING SEQUENCE - MAIN STREET

CONTRACTOR TO CLOSELY COORDINATE CONSTRUCTION AND PAVEMENT MARKING EFFORTS WITH RGRTA BUS ROUTE OPERATIONS.

FINAL PAVEMENT CONSTRUCTION ON MAIN STREET SHALL BE COMPLETED PER STAGES 1, 2 AND 3 AS SHOWN ON SHEETS TCP-8 THRU TCP-10. INTERIM PAVEMENT MARKING STRIPES AND SYMBOLS (REMOVABLE TAPE), ITEMS 619.100103 AND 619.100203 RESPECTIVELY, SHALL BE INSTALLED ON THE FINAL TOP COURSE TO RESTORE MARKINGS TO EXISTING PRECONSTRUCTION PATTERNS.

AFTER RGRTA HAS FULLY IMPLEMENTED THE NEW BUS ROUTE PATTERNS AND GIVES CONFIRMATION, THE CONTRACTOR SHALL REMOVE THE INTERIM PAVEMENT MARKINGS AND INSTALL FINAL LANE CONFIGURATIONS AND TRANSITIONS WITH THE PERMANENT PAVEMENT MARKING MATERIALS AS SHOWN ON THE PL SHEETS.

SCALE (FT)
0 25 50 100

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FA PROJECT NO.
121033
PROJECT MANAGER
R. BENNETT
DRAWN BY
C. CLARK
SCALE
AS SHOWN
ISSUE DATE
JULY 2014

STATE OF NEW YORK
ROBERT CHARLES BENNETT
084070
REGISTERED PROFESSIONAL ENGINEER

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PROJECT
CENTER CITY TWO-WAY CONVERSION
SAINT PAUL STREET AND NORTH CLINTON AVENUE
BETWEEN EAST MAIN STREET AND CUMBERLAND STREET
PIN:13102
CITY OF ROCHESTER, MONROE COUNTY, NEW YORK
TITLE OF DRAWING
TRAFFIC CONTROL PLAN

DRAWING NO.
TCP-9

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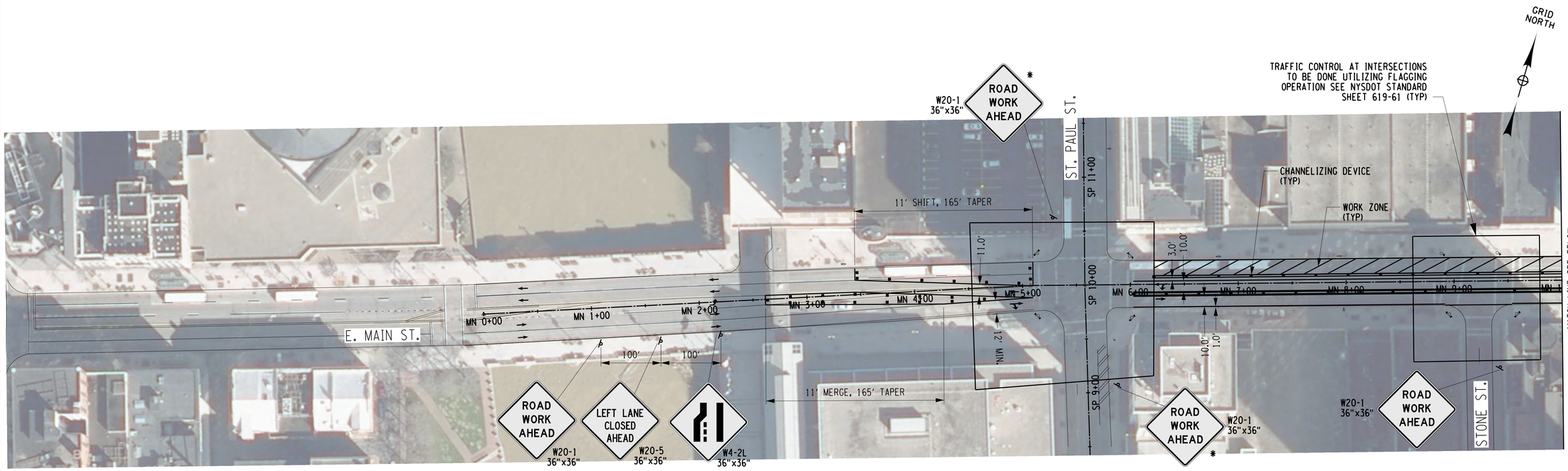
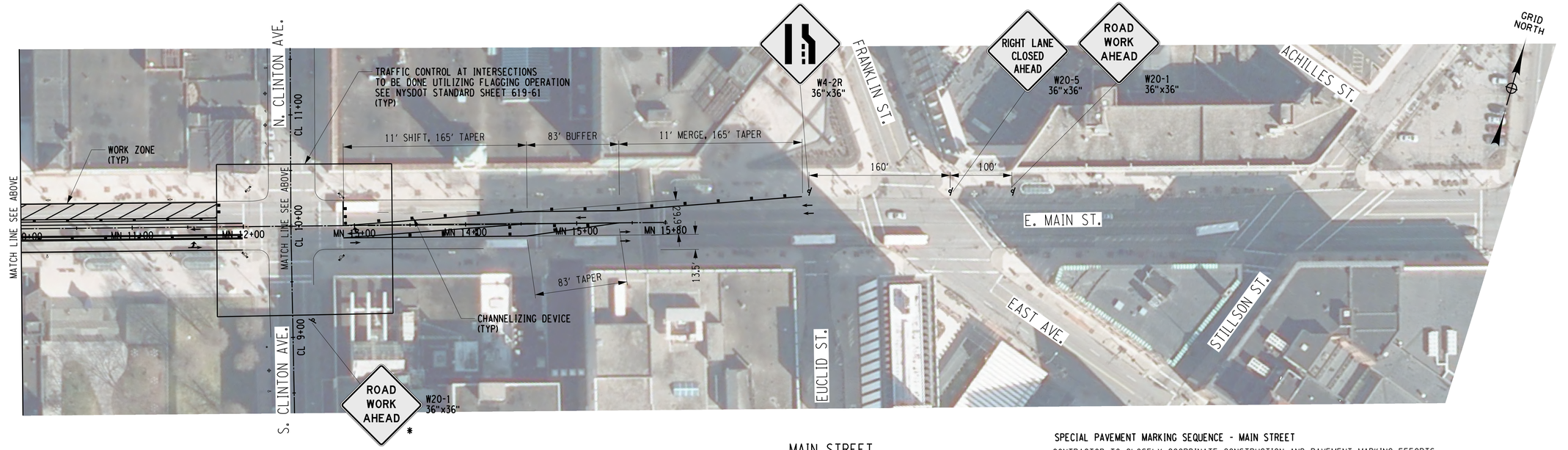


MAIN STREET
STAGE 3



MAIN STREET
STAGE 3

NOTES:

1. ALL MILLING, RESURFACING AND STRIPING WORK TO BE COMPLETED USING SHORT TERM DAILY CLOSURES ONLY.
2. CONTRACTOR SHALL MAINTAIN AT LEAST ONE TRAVEL LANE IN EACH DIRECTION AT ALL TIMES WHILE WORK IS BEING PROGRESSED.
3. WORK ON MAIN STREET SHALL OCCUR ON WEEKENDS ONLY.
4. CONTRACTOR SHALL RESTORE PRECONSTRUCTION LANE CONFIGURATIONS DURING NON-WORK HOURS.

*** THESE SIGNS ARE TO BE VISIBLE ONLY WHEN TRAVEL WAY IS AFFECTED BY PROPOSED WORK.**

SPECIAL PAVEMENT MARKING SEQUENCE - MAIN STREET

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SCALE (FT)
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PROFESSIONAL ENGINEER
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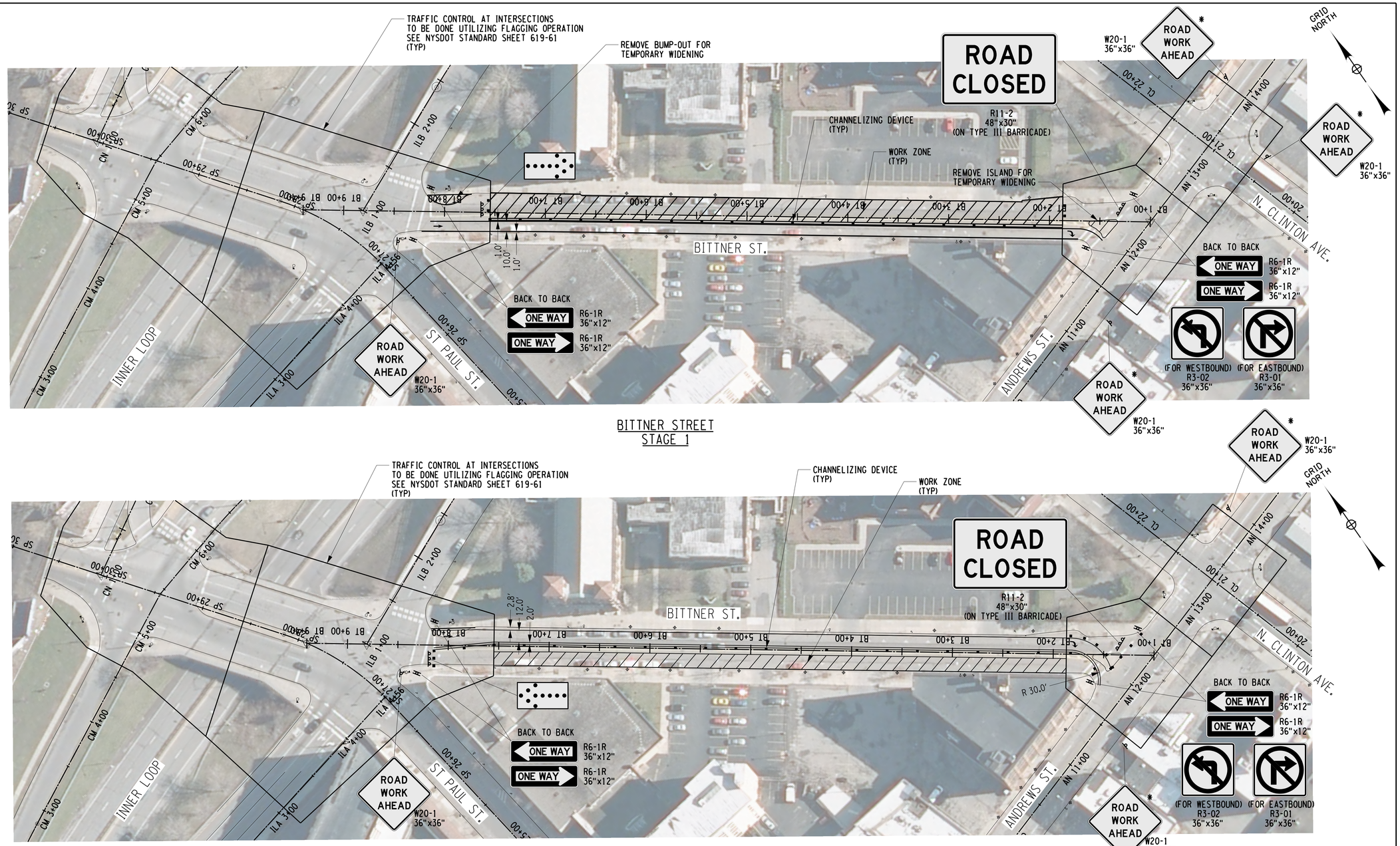
PROJECT
CENTER CITY TWO-WAY CONVERSION
SAINT PAUL STREET AND NORTH CLINTON AVENUE
BETWEEN EAST MAIN STREET AND CUMBERLAND STREET
PIN:13102
CITY OF ROCHESTER, MONROE COUNTY, NEW YORK

TITLE OF DRAWING
TRAFFIC CONTROL PLAN

DRAWING NO.
TCP-10



BITTNER STREET
STAGE 1

BITTNER STREET
STAGE 2

NOTES:

1. STAGE 3 BUILD BUMP-OUTS AND INTERSECTION WORK USING SHORT-TERM LANE CLOSURES AND FLAGGING OPERATIONS.
2. STAGE 4 PAVE FINAL AND STRIPE USING SHORT-TERM LANE CLOSURES AND FLAGGING OPERATIONS.

SCALE (FT)
0 25 50 100

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CENTER CITY TWO-WAY CONVERSION
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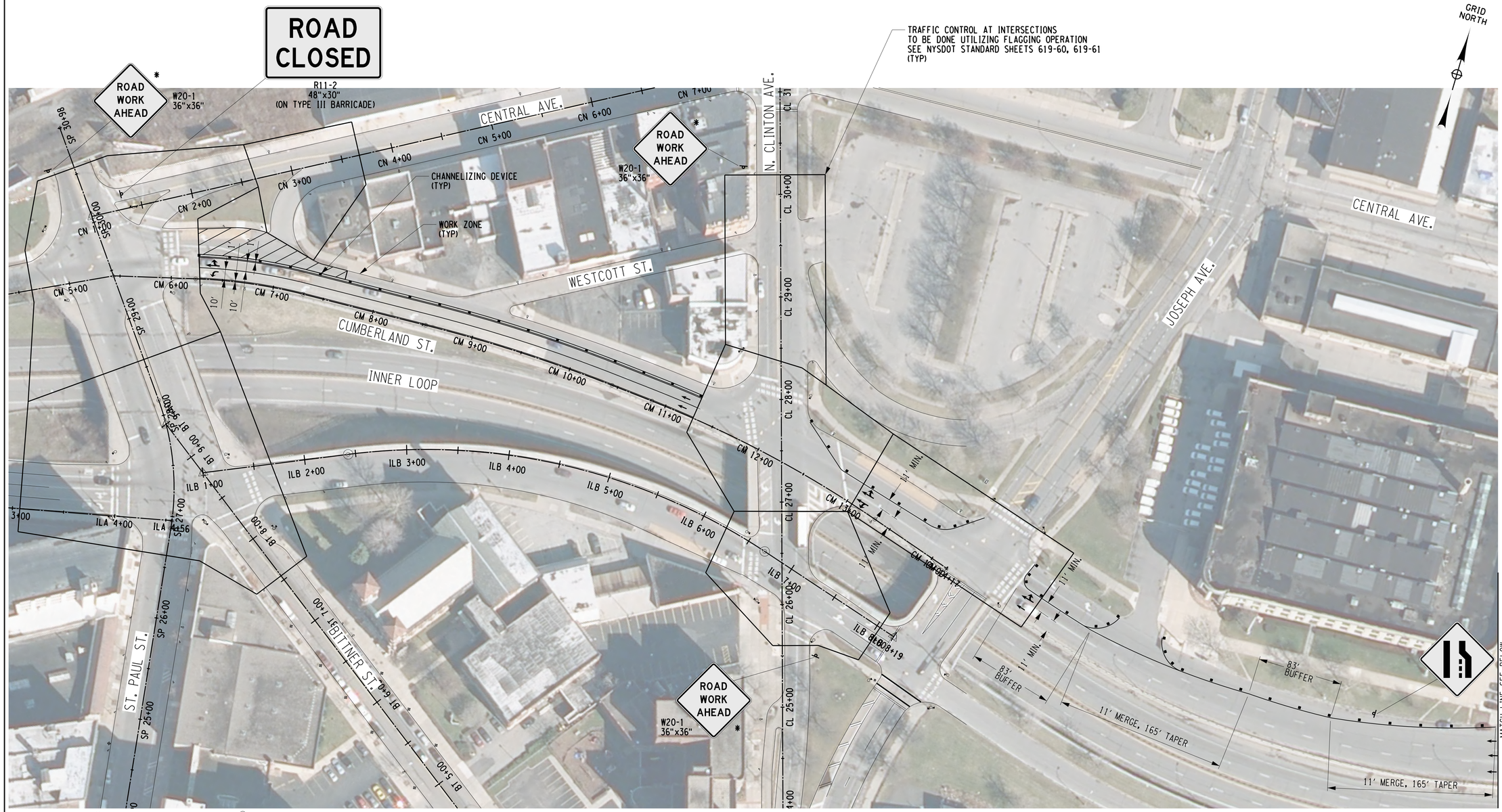
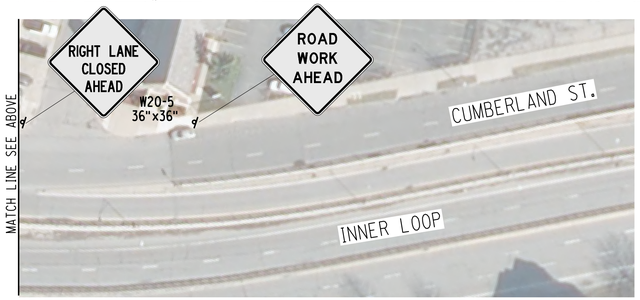
BETWEEN EAST MAIN STREET AND CUMBERLAND STREET
PIN:13102
CITY OF ROCHESTER, MONROE COUNTY, NEW YORK

TITLE OF DRAWING
TRAFFIC CONTROL PLAN

DRAWING NO.
TCP-11





CUMBERLAND STREET
STAGE 1

NOTES:

1. ALL MILLING, RESURFACING AND STRIPING WORK TO BE COMPLETED USING SHORT TERM DAILY CLOSURES ONLY.
2. CONTRACTOR SHALL MAINTAIN TWO TRAVEL LANES IN WESTBOUND DIRECTION AT ALL TIMES WHILE WORK IS BEING PROGRESSED.
3. WORK ON CUMBERLAND STREET SHALL OCCUR ON WEEKENDS ONLY.
4. CONTRACTOR SHALL RESTORE PRECONSTRUCTION LANE CONFIGURATIONS DURING NON-WORK HOURS.

SCALE (FT)
0 25 50 100

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C. CLARK

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AS SHOWN

ISSUE DATE
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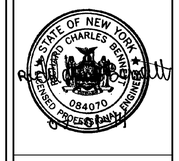

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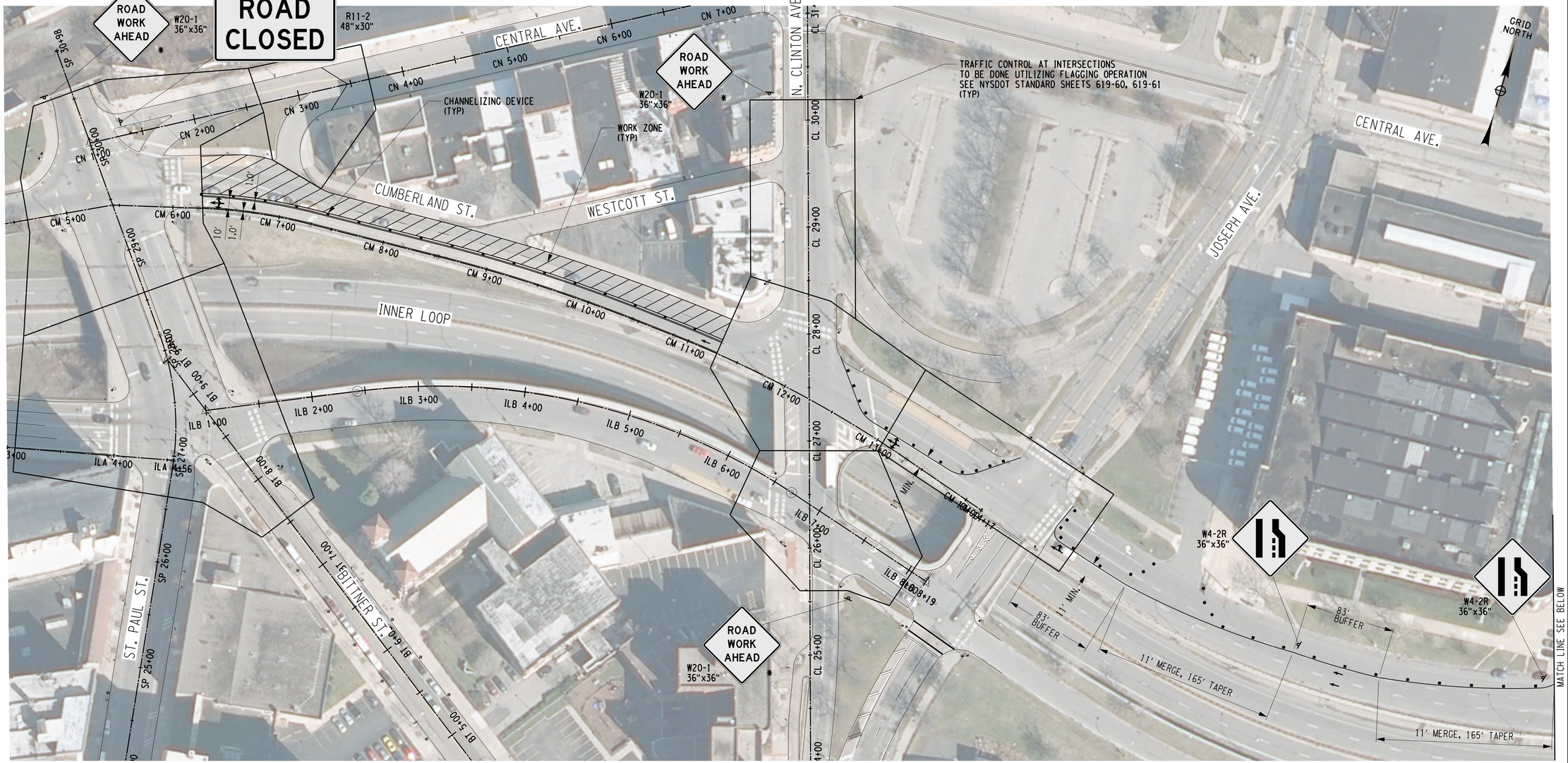
PROJECT
CENTER CITY TWO-WAY CONVERSION
SAINT PAUL STREET AND NORTH CLINTON AVENUE
BETWEEN EAST MAIN STREET AND CUMBERLAND STREET
PIN:13102
CITY OF ROCHESTER, MONROE COUNTY, NEW YORK

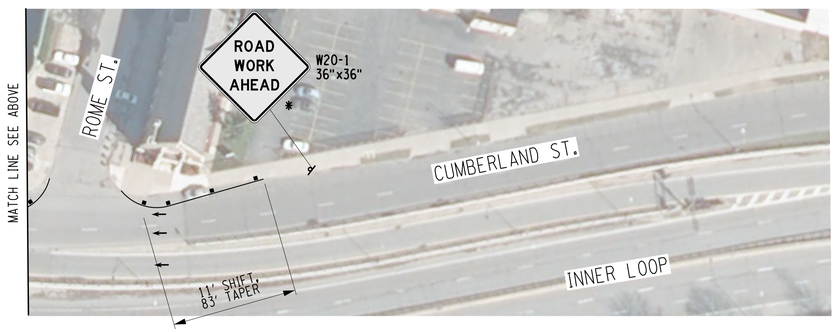
TITLE OF DRAWING
TRAFFIC CONTROL PLAN

DRAWING NO.
TCP-12

SHEET 18 OF 69



CUMBERLAND STREET
STAGE 2



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SCALE (FT)
0 25 50 100

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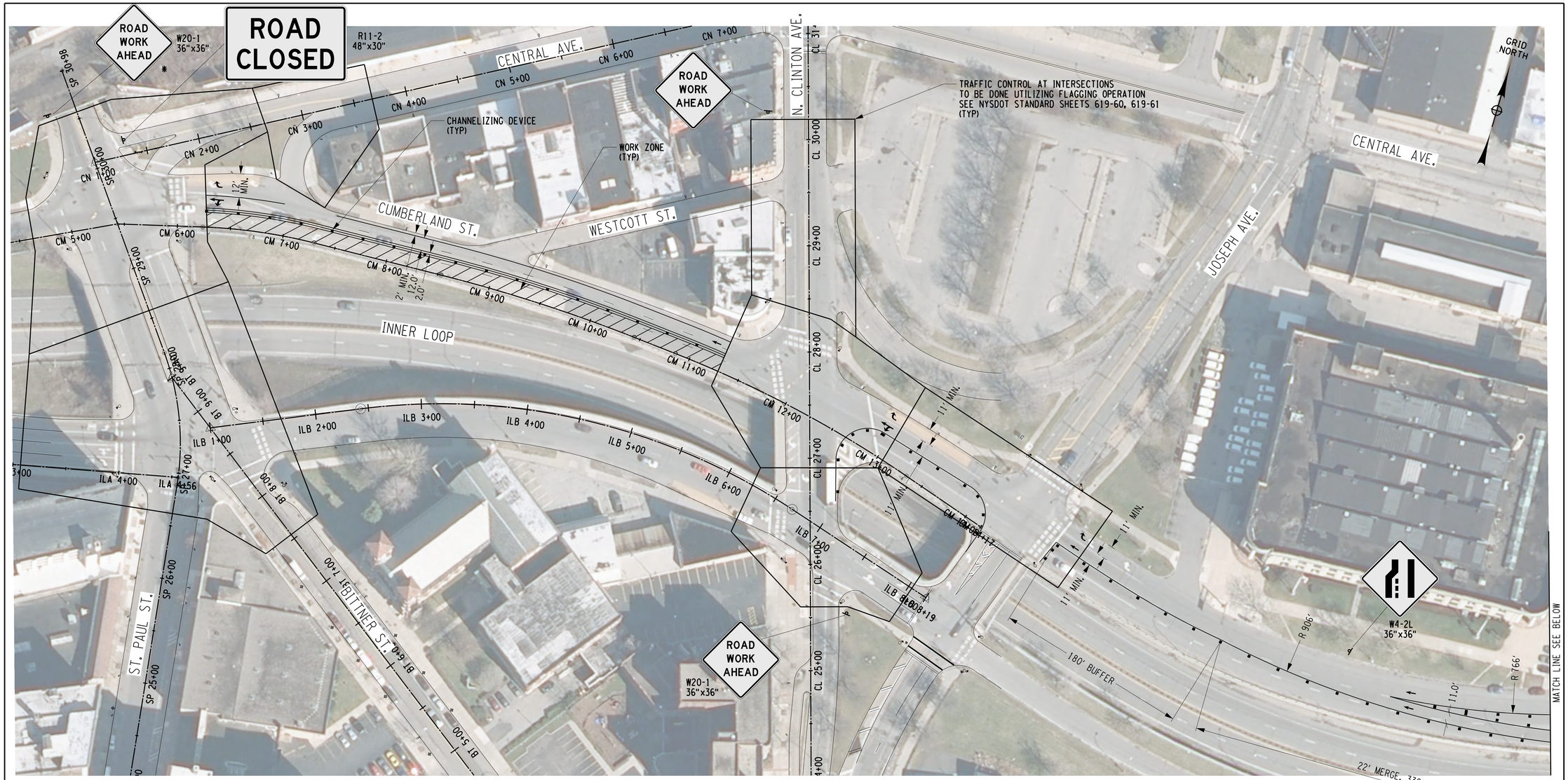
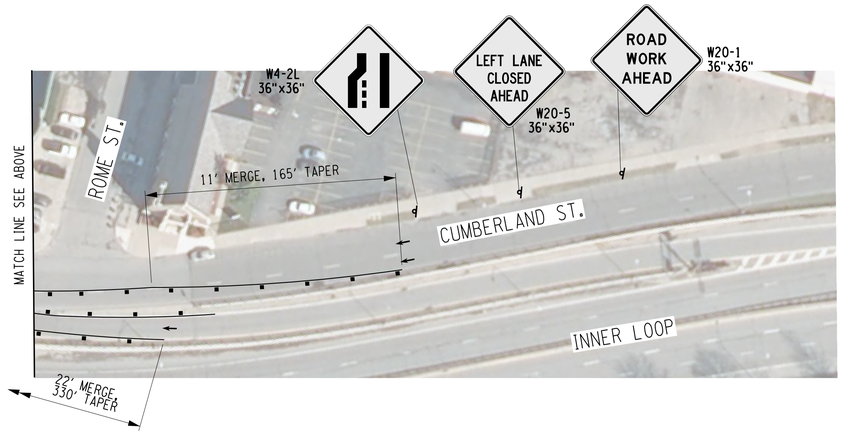
TITLE OF DRAWING
TRAFFIC CONTROL PLAN

DRAWING NO.
TCP-13

SHEET 19 OF 69





CUMBERLAND STREET
STAGE 3

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NOTES:

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SCALE (FT)
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CHARLES R. FISHER
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PIN:13102
CITY OF ROCHESTER, MONROE COUNTY, NEW YORK

TITLE OF DRAWING
TRAFFIC CONTROL PLAN

DRAWING NO.
TCP-14

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Craig

CLINTON AVENUE ALIGNMENT CURVE DATA

	STATION	NORTHING	EASTING
ELEMENT: LINEAR			
POB (1)	CL 0+00.00	1150923.29	1409272.24
EQNBK ( )	0+00.00	1150923.29	1409272.24
EQNAHD ( )	CL 0+00.00	1150923.29	1409272.24
PI (2)	CL 10+00.00	1151873.30	1408960.03
TANGENT DIRECTION:	341°48'28"		
TANGENT LENGTH:	1000.00		
ELEMENT: LINEAR			
PI (2)	CL 10+00.00	1151873.30	1408960.03
POE (3)	CL 33+04.63	1154073.66	1408274.67
TANGENT DIRECTION:	342°41'57"		
TANGENT LENGTH:	2304.62		

SAINT PAUL ST ALIGNMENT CURVE DATA

	STATION	NORTHING	EASTING
ELEMENT: LINEAR			
POB (4)	SP 3+40.00	1151041.10	1408520.40
EQNBK ( )	3+40.00	1151041.10	1408520.40
EQNAHD ( )	SP 3+40.00	1151041.10	1408520.40
PI (5)	SP 10+00.00	1151665.73	1408307.25
TANGENT DIRECTION:	341°09'29"		
TANGENT LENGTH:	660.00		
ELEMENT: LINEAR			
PI (5)	SP 10+00.00	1151665.73	1408307.25
PI (6)	SP 21+07.40	1152721.53	1407973.16
TANGENT DIRECTION:	342°26'28"		
TANGENT LENGTH:	1107.40		
ELEMENT: LINEAR			
PI (6)	SP 21+07.40	1152721.53	1407973.16
PC (7)	SP 26+88.57	1153297.10	1407892.66
TANGENT DIRECTION:	352°02'16"		
TANGENT LENGTH:	581.17		
ELEMENT: CIRCULAR			
PC (7)	SP 26+88.57	1153297.10	1407892.66
PI ( )	SP 27+53.37	1153361.28	1407883.68
CC (8)		1153262.47	1407645.07
PT (9)	SP 28+15.38	1153413.01	1407844.66
RADIUS:	250.00		
DELTA:	29°03'50" LEFT		
DEGREE OF CURVATURE(ARC):	22°55'06"		
LENGTH:	126.82		
TANGENT:	64.80		
CHORD:	125.50		
MIDDLE ORDINATE:	7.99		
EXTERNAL:	8.26		
TANGENT DIRECTION:	352°02'16"		
RADIAL DIRECTION:	82°02'16"		
CHORD DIRECTION:	337°30'21"		
RADIAL DIRECTION:	52°58'26"		
TANGENT DIRECTION:	322°58'26"		
ELEMENT: LINEAR			
PT (9)	SP 28+15.38	1153413.01	1407844.66
POE (10)	SP 30+97.88	1153638.55	1407674.54
TANGENT DIRECTION:	322°58'26"		
TANGENT LENGTH:	282.50		

MAIN ST ALIGNMENT CURVE DATA

	STATION	NORTHING	EASTING
ELEMENT: LINEAR			
POB (11)	MN 0+00.00	1151476.41	1407782.60
EQNBK ( )	0+00.00	1151476.41	1407782.60
EQNAHD ( )	MN 0+00.00	1151476.41	1407782.60
PI (12)	MN 5+07.36	1151650.44	1408259.18
TANGENT DIRECTION:	69°56'19"		
TANGENT LENGTH:	507.36		
ELEMENT: LINEAR			
PI (12)	MN 5+07.36	1151650.45	1408259.18
POE (13)	MN 15+79.93	1151975.47	1409281.32
TANGENT DIRECTION:	72°21'37"		
TANGENT LENGTH:	1072.57		

MORTIMER ST ALIGNMENT CURVE DATA

	STATION	NORTHING	EASTING
ELEMENT: LINEAR			
POB (14)	MR 1+00.00	1152061.79	1408181.92
EQNBK ( )	1+00.00	1152061.79	1408181.92
EQNAHD ( )	MR 1+00.00	1152061.79	1408181.92
POE (15)	MR 7+86.87	1152270.65	1408836.27
TANGENT DIRECTION:	72°17'53.23"		
TANGENT LENGTH:	686.87		

PLEASANT ST ALIGNMENT CURVE DATA

	STATION	NORTHING	EASTING
ELEMENT: LINEAR			
POB (16)	PL 1+00.00	1152366.89	1408085.38
EQNBK ( )	1+00.00	1152366.89	1408085.38
EQNAHD ( )	PL 1+00.00	1152366.89	1408085.38
PC (17)	PL 4+25.98	1152474.51	1408393.09
TANGENT DIRECTION:	70°43'22"		
TANGENT LENGTH:	325.98		
ELEMENT: CIRCULAR			
PC (17)	PL 4+25.98	1152474.50	1408393.09
PI ( )	PL 4+56.20	1152484.48	1408421.61
CC (18)		1152899.28	1408244.53
PT (19)	PL 4+86.33	1152498.18	1408448.55
RADIUS:	450.00		
DELTA:	7°41'02" LEFT		
DEGREE OF CURVATURE(ARC):	12°43'57"		
LENGTH:	60.35		
TANGENT:	30.22		
CHORD:	60.30		
MIDDLE ORDINATE:	1.01		
EXTERNAL:	1.01		
TANGENT DIRECTION:	70°43'22"		
RADIAL DIRECTION:	160°43'22"		
CHORD DIRECTION:	66°52'51"		
RADIAL DIRECTION:	153°02'20"		
TANGENT DIRECTION:	63°02'20"		
ELEMENT: LINEAR			
PT (19)	PL 4+86.33	1152498.18	1408448.55
PC (20)	PL 5+06.90	1152507.51	1408466.88
TANGENT DIRECTION:	63°02'20"		
TANGENT LENGTH:	20.57		
ELEMENT: CIRCULAR			
PC (20)	PL 5+06.90	1152507.51	1408466.88
PI ( )	PL 5+46.36	1152525.40	1408502.05
CC (21)		1151972.72	1408738.91
PT (22)	PL 5+85.70	1152538.53	1408539.26
RADIUS:	600.00		
DELTA:	7°31'30" RIGHT		
DEGREE OF CURVATURE(ARC):	9°32'57"		
LENGTH:	78.80		
TANGENT:	39.46		
CHORD:	78.74		
MIDDLE ORDINATE:	1.29		
EXTERNAL:	1.30		
TANGENT DIRECTION:	63°02'21"		
RADIAL DIRECTION:	153°02'21"		
CHORD DIRECTION:	66°48'05"		
RADIAL DIRECTION:	160°33'50"		
TANGENT DIRECTION:	70°33'50"		
ELEMENT: LINEAR			
PT (22)	PL 5+85.70	1152538.52	1408539.26
PC (23)	PL 8+13.84	1152614.44	1408754.40
TANGENT DIRECTION:	70°33'50"		
TANGENT LENGTH:	228.14		
ELEMENT: CIRCULAR			
PC (23)	PL 8+13.84	1152614.44	1408754.40
PI ( )	PL 8+69.52	1152632.97	1408806.91
CC (24)		1152355.11	1408845.91
PT (25)	PL 9+23.72	1152629.61	1408862.48
RADIUS:	275.00		
DELTA:	22°53'32" RIGHT		
DEGREE OF CURVATURE(ARC):	20°50'05"		
LENGTH:	109.87		
TANGENT:	55.68		
CHORD:	109.15		
MIDDLE ORDINATE:	5.47		
EXTERNAL:	5.58		
TANGENT DIRECTION:	70°33'50"		
RADIAL DIRECTION:	160°33'50"		
CHORD DIRECTION:	82°00'36"		
RADIAL DIRECTION:	183°27'22"		
TANGENT DIRECTION:	93°27'22"		
ELEMENT: LINEAR			
PT (25)	PL 9+23.72	1152629.61	1408862.49
PC (26)	PL 9+96.08	1152625.25	1408934.71
TANGENT DIRECTION:	93°27'22"		
TANGENT LENGTH:	72.36		
ELEMENT: CIRCULAR			
PC (26)	PL 9+96.08	1152625.25	1408934.71
PI ( )	PL 10+77.95	1152620.32	1409016.43
CC (27)		1152944.67	1408954.00
PT (28)	PL 11+56.38	1152655.23	1409090.48
RADIUS:	320.00		
DELTA:	28°42'06" LEFT		
DEGREE OF CURVATURE(ARC):	17°54'18"		
LENGTH:	160.30		
TANGENT:	81.87		
CHORD:	158.63		
MIDDLE ORDINATE:	9.99		
EXTERNAL:	10.31		
TANGENT DIRECTION:	93°27'22"		
RADIAL DIRECTION:	183°27'22"		
CHORD DIRECTION:	79°06'19"		
RADIAL DIRECTION:	154°45'15"		
TANGENT DIRECTION:	64°45'15"		
ELEMENT: LINEAR			
PT (28)	PL 11+56.38	1152655.23	1409090.48
POE (29)	PL 11+95.36	1152671.86	1409125.74
TANGENT DIRECTION:	64°45'15"		
TANGENT LENGTH:	38.98		

ANDREWS ST ALIGNMENT CURVE DATA

	STATION	NORTHING	EASTING
ELEMENT: LINEAR			
POB (30)	AN 0+00.00	1152518.49	1407364.69
EQNBK ( )	0+00.00	1152518.49	1407364.69
EQNAHD ( )	AN 0+00.00	1152518.49	1407364.69
PI (31)	AN 5+34.21	1152689.03	1407870.95
TANGENT DIRECTION:	71°22'58.70"		
TANGENT LENGTH:	534.21		
ELEMENT: LINEAR			
PI (31)	AN 5+34.21	1152689.03	1407870.95
POE (32)	AN 17+00.00	1153042.24	1408981.95
TANGENT DIRECTION:	72°21'49"		
TANGENT LENGTH:	1165.79		

BITTNER ST ALIGNMENT CURVE DATA

	STATION	NORTHING	EASTING
Element: LINEAR			
POB (35)	BT 1+00.00	1152901.85	1408540.34
EQNBK ( )	1+00.00	1152901.85	1408540.34
EQNAHD ( )	BT 1+00.00	1152901.85	1408540.34
POE (36)	BT 9+40.30	1153392.82	1407858.40
TANGENT DIRECTION:	305°45'09"		
TANGENT LENGTH :	840.30		

INNER LOOP A ALIGNMENT CURVE DATA

	STATION	NORTHING	EASTING
ELEMENT: LINEAR			
POB (52)	ILA 0+00.00	1153205.19	1407446.46
EQNBK ( )	0+00.00	1153205.19	1407446.46
EQNAHD ( )	ILA 0+00.00	1153205.19	1407446.46
POE (53)	ILA 4+56.01	1153304.63	1407891.49
TANGENT DIRECTION:	77°24'14"		
TANGENT LENGTH:	456.01		

INNER LOOP B ALIGNMENT CURVE DATA

	STATION	NORTHING	EASTING
ELEMENT: LINEAR			
POB (54)	ILB 1+00.00	1153358.09	1407906.63
EQNBK ( )	1+00.00	1153358.09	1407906.63
EQNAHD ( )	ILB 1+00.00	1153358.09	1407906.63
PC (55)	ILB 2+42.74	1153416.79	1408036.75
TANGENT DIRECTION:	65°43'01"		
TANGENT LENGTH:	142.74		
ELEMENT: CIRCULAR			
PC (55)	ILB 2+42.74	1153416.79	1408036.75
PI ( )	ILB 4+65.12	1153508.24	1408239.45
CC (56)		1152869.88	1408283.49
PT (57)	ILB 6+68.66	1153445.50	1408452.79
RADIUS:	600.00		
DELTA:	40°40'20" RIGHT		
DEGREE OF CURVATURE(ARC):	9°32'57"		
LENGTH:	425.92		
TANGENT:	222.38		
CHORD:	417.03		
MIDDLE ORDINATE:	37.40		
EXTERNAL:	39.88		
TANGENT DIRECTION:	65°43'01"		
RADIAL DIRECTION:	155°43'01"		
CHORD DIRECTION:	86°03'11"		
RADIAL DIRECTION:	196°23'21"		
TANGENT DIRECTION:	106°23'21"		
Element: LINEAR			
PT (57)	ILB 6+68.66	1153445.50	1408452.79
POE (58)	ILB 8+19.40	1153402.96	1408597.40
TANGENT DIRECTION:	106°23'21"		
TANGENT LENGTH :	150.74		

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If an item bearing the seal of an engineer or land surveyor is altered, the altering engineer or land surveyor shall affix to the item his/her seal and the notation "altered by" followed by his/her signature and the date of such alteration, and a specific description of the alteration.

FA PROJECT NO. 121033
PROJECT MANAGER R. BENNETT
DRAWN BY T. DAVIS
ISSUE DATE JULY 2014
SCALE AS SHOWN

STATE OF NEW YORK · RICHARD CHARLES BENNETT · 084070 · LICENSED PROFESSIONAL ENGINEER

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PROJECT
CENTER CITY TWO-WAY CONVERSION
SAINT PAUL STREET AND NORTH CLINTON AVENUE
BETWEEN EAST MAIN STREET AND CUMBERLAND STREET
PIN:13102
CITY OF ROCHESTER, MONROE COUNTY, NEW YORK

TITLE OF DRAWING
SURVEY CONTROL

DRAWING NO.
SC-01

CUMBERLAND ST ALIGNMENT CURVE DATA

		STATION	NORTHING	EASTING
ELEMENT: CIRCULAR				
PC (	38)	CM 0+00.00	1153237.28	1407302.67
PI (	)	CM 1+43.57	1153334.02	1407408.74
CC (	39)		1152454.10	1408016.98
EQNBK (	)	0+00.00	1153237.28	1407302.67
EQNAHD (	)	CM 0+00.00	1153237.28	1407302.67
PT (	40)	CM 2+85.40	1153399.07	1407536.73
RADIUS:		1060.00		
DELTA:		15°25'35" RIGHT		
DEGREE OF CURVATURE(ARC):		5°24'19"		
LENGTH:		285.40		
TANGENT:		143.57		
CHORD:		284.54		
MIDDLE ORDINATE:		9.59		
EXTERNAL:		9.68		
TANGENT DIRECTION:		47°37'59"		
RADIAL DIRECTION:		137°37'59"		
CHORD DIRECTION:		55°20'46"		
RADIAL DIRECTION:		153°03'34"		
TANGENT DIRECTION:		63°03'34"		
ELEMENT: LINEAR				
PT (	40)	CM 2+85.40	1153399.07	1407536.73
PI (	41)	CM 5+43.62	1153516.06	1407766.93
TANGENT DIRECTION:		63°03'34"		
TANGENT LENGTH:		258.23		
ELEMENT: LINEAR				
PI (	41)	CM 5+43.62	1153516.06	1407766.93
PC (	42)	CM 6+23.80	1153536.81	1407844.37
TANGENT DIRECTION:		74°59'59"		
TANGENT LENGTH:		80.17		
ELEMENT: CIRCULAR				
PC (	42)	CM 6+23.80	1153536.81	1407844.37
PI (	)	CM 6+77.04	1153550.59	1407895.80
CC (	43)		1153053.85	1407973.78
PT (	44)	CM 7+29.88	1153553.23	1407948.97
RADIUS:		500.00		
DELTA:		12°09'23" RIGHT		
DEGREE OF CURVATURE(ARC):		11°27'33"		
LENGTH:		106.08		
TANGENT:		53.24		
CHORD:		105.88		
MIDDLE ORDINATE:		2.81		
EXTERNAL:		2.83		
TANGENT DIRECTION:		74°59'59"		
RADIAL DIRECTION:		164°59'59"		
CHORD DIRECTION:		81°04'40"		
RADIAL DIRECTION:		177°09'22"		
TANGENT DIRECTION:		87°09'22"		
ELEMENT: LINEAR				
PT (	44)	CM 7+29.88	1153553.23	1407948.97
PC (	45)	CM 8+53.16	1153559.35	1408072.10
TANGENT DIRECTION:		87°09'22"		
TANGENT LENGTH:		123.28		
ELEMENT: CIRCULAR				
PC (	45)	CM 8+53.16	1153559.35	1408072.10
PI (	)	CM 9+48.83	1153564.10	1408167.65
CC (	46)		1152061.20	1408146.52
PT (	47)	CM 10+44.24	1153556.67	1408263.03
RADIUS:		1500.00		
DELTA:		7°17'56" RIGHT		
DEGREE OF CURVATURE(ARC):		3°49'11"		
LENGTH:		191.08		
TANGENT:		95.67		
CHORD:		190.95		
MIDDLE ORDINATE:		3.04		
EXTERNAL:		3.05		
TANGENT DIRECTION:		87°09'22"		
RADIAL DIRECTION:		177°09'22"		
CHORD DIRECTION:		90°48'19"		
RADIAL DIRECTION:		184°27'17"		
TANGENT DIRECTION:		94°27'17"		
ELEMENT: LINEAR				
PT (	47)	CM 10+44.24	1153556.67	1408263.03
PC (	48)	CM 10+85.96	1153553.43	1408304.63
TANGENT DIRECTION:		94°27'17"		
TANGENT LENGTH:		41.72		
ELEMENT: CIRCULAR				
PC (	48)	CM 10+85.96	1153553.43	1408304.63
PI (	)	CM 12+09.78	1153543.81	1408428.07
CC (	49)		1152456.75	1408219.19
PT (	50)	CM 13+32.56	1153506.99	1408546.30
RADIUS:		1100.00		
DELTA:		12°50'42" RIGHT		
DEGREE OF CURVATURE(ARC):		5°12'31"		
LENGTH:		246.60		
TANGENT:		123.82		
CHORD:		246.09		
MIDDLE ORDINATE:		6.90		
EXTERNAL:		6.95		
TANGENT DIRECTION:		94°27'17"		
RADIAL DIRECTION:		184°27'17"		
CHORD DIRECTION:		100°52'38"		
RADIAL DIRECTION:		197°17'60"		
TANGENT DIRECTION:		107°17'60"		
ELEMENT: LINEAR				
PT (	50)	CM 13+32.56	1153506.99	1408546.30
POE (	51)	CM 14+17.38	1153481.77	1408627.28
TANGENT DIRECTION:		107°17'60"		
TANGENT LENGTH:		84.81		

BRAGDON PL ALIGNMENT CURVE DATA

		STATION	NORTHING	EASTING
ELEMENT: LINEAR				
POB (	33)	BR 1+00.00	1152021.96	1408027.17
EQNBK (	)	1+00.00	1152021.96	1408027.17
EQNAHD (	)	BR 1+00.00	1152021.96	1408027.17
POE (	34)	BR 2+59.56	1152070.32	1408179.22
TANGENT DIRECTION:		72°21'28"		
TANGENT LENGTH:		159.56		

CENTRAL AVE ALIGNMENT CURVE DATA

		STATION	NORTHING	EASTING
ELEMENT: LINEAR				
POB (	59)	CN 1+00.00	1153565.36	1407729.75
EQNBK (	)	1+00.00	1153565.36	1407729.75
EQNAHD (	)	CN 1+00.00	1153565.36	1407729.75
POE (	60)	CN 7+88.11	1153908.81	1408326.01
TANGENT DIRECTION:		60°03'26"		
TANGENT LENGTH:		688.11		

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FA PROJECT NO.
121033

PROJECT MANAGER
R. BENNETT

DRAWN BY
T. DAVIS

SCALE
AS SHOWN

ISSUE DATE
JULY 2014

STATE OF NEW YORK
RICHARD CHARLES BENNETT
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PROJECT
CENTER CITY TWO-WAY CONVERSION
SAINT PAUL STREET AND NORTH CLINTON AVENUE
BETWEEN EAST MAIN STREET AND CUMBERLAND STREET
PIN:13102
CITY OF ROCHESTER, MONROE COUNTY, NEW YORK

TITLE OF DRAWING
SURVEY CONTROL

DRAWING NO.
SC-02

SURVEY MONUMENT TABLE

DWG NO.	TYPE NUMBER	CORNER	PRIMARY STREET	CROSS STREET	NORTHING (S.P.)	EASTING (S.P.)	CITY ELEV.	DISPOSITION	ITEM NUMBER
PL-01	RCS 121230105	NW	MAIN ST E	ST PAUL ST	1,151,698.0861	1,408,266.9895		EXISTING MONUMENT TO REMAIN - PROTECT AND MAINTAIN EXISTING MONUMENT	--
PL-01	RCS 121230207	NE	MAIN ST E	ST PAUL ST	1,151,902.6138	1,408,272.6535		EXISTING MONUMENT TO REMAIN - PROTECT AND MAINTAIN EXISTING MONUMENT	--
PL-01	RCS 121230106	SW	MAIN ST E	SOUTH AVE				EXISTING MONUMENT TO REMAIN - PROTECT AND MAINTAIN EXISTING MONUMENT	--
PL-01	USC&GS 121230202	SE	MAIN ST E	SOUTH AVE	1,151,636.6173	1,408,333.2463	519.503	PROTECT AND MAINTAIN EXISTING MONUMENT. RESET EXISTING FRAME AND COVER	625.070600MO
PL-01	RCS 121230205	SE	MAIN ST E	SOUTH AVE	1,151,636.1062	1,408,347.8669		EXISTING MONUMENT TO REMAIN - PROTECT AND MAINTAIN EXISTING MONUMENT	--
PL-01	RCS 121230201	NE	ST PAUL ST	DIVISION ST	1,151,902.6138	1,408,272.6535		EXISTING MONUMENT TO REMAIN - PROTECT AND MAINTAIN EXISTING MONUMENT	--
PL-02	RCS 106790111	NW	ST PAUL ST	BRAGDON PL	1,152,100.1383	1,408,138.1193		EXISTING MONUMENT TO REMAIN - PROTECT AND MAINTAIN EXISTING MONUMENT	--
PL-02	RTS 106790112	NW	ST PAUL ST	BRAGDON PL			522.510	EXISTING MONUMENT TO REMAIN - PROTECT AND MAINTAIN EXISTING MONUMENT	--
PL-02	RCS 106790110	SE	ST PAUL ST	PLEASANT ST	1,152,572.6773	1,408,707.3142		EXISTING MONUMENT TO REMAIN - PROTECT AND MAINTAIN EXISTING MONUMENT	--
PL-03	RCS 106790102	NW	ST PAUL ST	ANDREWS ST	1,152,738.2591	1,407,935.6715		EXISTING MONUMENT TO REMAIN - PROTECT AND MAINTAIN EXISTING MONUMENT	--
PL-03	RCS 106790103	NE	ST PAUL ST	ANDREWS ST	1,152,759.7174	1,408,000.8317		EXISTING MONUMENT TO REMAIN - PROTECT AND MAINTAIN EXISTING MONUMENT	--
PL-03	RCS 106790107	SW	ST PAUL ST	ANDREWS ST	1,152,688.6330	1,407,952.7556		EXISTING MONUMENT TO REMAIN - PROTECT AND MAINTAIN EXISTING MONUMENT	--
PL-03	RCS 106790108	SE	ST PAUL ST	ANDREWS ST	1,152,710.3032	1,408,017.2325		EXISTING MONUMENT TO REMAIN - PROTECT AND MAINTAIN EXISTING MONUMENT	--
PL-04	RCS 106710106	SE	ST PAUL ST	BITTNER ST				PROTECT AND MAINTAIN EXISTING MONUMENT. RESET EXISTING FRAME AND COVER	625.070600MO
PL-06	RCS 121240101	SW	CLINTON AVE S	MAIN ST E	1,151,824.9920	1,408,946.8070		EXISTING MONUMENT TO REMAIN - PROTECT AND MAINTAIN EXISTING MONUMENT	--
PL-06	RCS 106800107	NE	MAIN ST E	CLINTON AVE N	1,152,925.1664	1,408,975.1719		EXISTING MONUMENT TO REMAIN - PROTECT AND MAINTAIN EXISTING MONUMENT	--
PL-06	RCS 106790113	NW	CLINTON AVE N	DIVISION ST	1,152,091.3039	1,408,862.0109		EXISTING MONUMENT TO REMAIN - PROTECT AND MAINTAIN EXISTING MONUMENT	--
PL-07	RCS 106790115	NE	CLINTON AVE N	PLEASANT ST	1,152,657.2069	1,408,745.0903		EXISTING MONUMENT TO REMAIN - PROTECT AND MAINTAIN EXISTING MONUMENT	--
PL-07	RCS 106790116	SW	CLINTON AVE N	PLEASANT ST	1,152,572.6773	1,408,707.3142		EXISTING MONUMENT TO REMAIN - PROTECT AND MAINTAIN EXISTING MONUMENT	--
PL-07	RCS 106790119	SW	CLINTON AVE N	MORTIMER ST				EXISTING MONUMENT TO REMAIN - PROTECT AND MAINTAIN EXISTING MONUMENT	--
PL-08	RCS 106790109	SW	CLINTON AVE N	ANDREWS ST	1,152,898.2710	1,408,611.0860		PROTECT AND MAINTAIN EXISTING MONUMENT. INSTALL NEW MONUMENT FRAME AND COVER (SUPPLIED BY CITY OF ROCHESTER)	625.070500MO
PL-08	RCS 106790120	W	CLINTON AVE N	ANDREWS ST	1,152,791.9340	1,408,644.4640		EXISTING MONUMENT TO REMAIN - PROTECT AND MAINTAIN EXISTING MONUMENT	--
PL-09	RCS 106790105	SW	CLINTON AVE N	CUMBERLAND S				PROTECT AND MAINTAIN EXISTING MONUMENT. RESET EXISTING FRAME AND COVER	625.070600MO
PL-10	RCS 121230206	SE	MAIN ST E	STONE ST	1,151,741.4560	1,408,682.2802		EXISTING MONUMENT TO REMAIN - PROTECT AND MAINTAIN EXISTING MONUMENT	--
PL-13	RCS 106790104	NW	ANDREWS ST	BITTNER ST	1,152,910.6644	1,408,478.6062		PROTECT AND MAINTAIN EXISTING MONUMENT. RESET EXISTING FRAME AND COVER	625.070600MO
PL-15	RCS 106710101	SW	CLINTON AVE N	CENTRAL AVE	1,153,864.5673	1,408,307.3364		EXISTING MONUMENT TO REMAIN - PROTECT AND MAINTAIN EXISTING MONUMENT	--
PL-15	RCS 106710105	SW	CLINTON AVE N	CUMBERLAND S				EXISTING MONUMENT TO REMAIN - PROTECT AND MAINTAIN EXISTING MONUMENT	--
PL-15	RCS 106710107	SE	CLINTON AVE N	CENTRAL AVE	1,153,881.3689	1,408,360.7447		EXISTING MONUMENT TO REMAIN - PROTECT AND MAINTAIN EXISTING MONUMENT	--

NOTES: **NOTES:**

1. THE CONTRACTOR SHALL COORDINATE THE MONUMENT INSTALLATION WITH THE CITY MAPS AND SURVEY DEPARTMENT TO RESOLVE ANY CONFLICTS WITH EXACT PLACEMENT
2. PRIOR TO THE ADJUSTMENT BEING PERFORMED THE CONTRACTOR SHALL CONTACT THE CITY MAPS AND SURVEY DEPARTMENT TO COORDINATE THE PROPOSED WORK AT THE MONUMENT.

LIMITS OF FULL-DEPTH PAVEMENT RECONSTRUCTION

FROM STATION	TO STATION	FROM OFFSET	TO OFFSET	APPROX. AREA, SF (ASPHALT BASE)	APPROX. AREA, SF (CONCRETE BASE)	NOTES
AN 5+50	AN 6+22	22.0' L	22.0 R	3370		DAMAGED PAV'T ENTIRE INTERSECTION APPROACH
AN 6+70	AN 7+10	22.0' L	22.0 R	1790		DAMAGED PAV'T ENTIRE INTERSECTION APPROACH
AN 7+10	AN 8+45	10.0' R	22.0 R	1620		DAMAGED PAV'T ENTIRE CURB LANE
AN 13+52	AN 13+70	20.0' L	22.0' L		44	DAMAGED PAV'T IN FRONT OF CURB RADIUS
AN 13+78	AN 14+12	18.0' R	22.0' R	136		DAMAGED PAV'T IN FRONT OF CURB
AN 15+28	AN 15+32	22.0' L	22.0' R	176		DAMAGED PAV'T AT TRANSVERSE TRENCH
BT 2+80	BT 6+50	9.0' L	11.0' L	740		DAMAGED PAV'T AT LANE LINE
BT 2+80	BT 6+50	9.0' R	11.0' R	740		DAMAGED PAV'T AT LANE LINE
CL 9+78	CL 10+02	30.0' L	30.0' R	1440		DAMAGED PAV'T IN INTERSECTION
CL 12+58	CL 12+66	2.0' L	21.0' R	184		DAMAGED PAV'T AROUND VALVES AND MANHOLE
CL 13+72	CL 13+98	10.0' R	21.0' R	286		DAMAGED PAV'T AROUND VALVES AND MANHOLE
CL 13+98	CL 14+72	19.0' R	21.0' R		148	DAMAGED PAV'T IN FRONT OF CURB
CL 17+24	CL 17+68	21.0' L	22.0' R	1892		DAMAGED PAV'T IN INTERSECTION
CL 18+98	CL 19+26	22.0' L	22.0' R	1232		DAMAGED PAV'T AROUND UTILITY PATCHES
CL 20+82	CL 20+86	4.0' L	8.0' L		16	DAMAGED PAV'T AROUND MANHOLE
CL 21+04	CL 21+08	3.0' L	1.0' R		16	DAMAGED PAV'T AROUND MANHOLE
CL 21+38	CL 24+00	0.0'	22.0' R	8600		JOSEPH AVE ALL LANES TO CURB; AOBE
CM 5+92	CM 7+50	0.0' L	22.0' L	3572		REMOVE CONCRETE PAV'T SECTION
CM 6+08	CM 6+72	37.5' L	44.5' L	730		REMOVE BRICK PAV'T SECTION
CM 12+86	CM 13+75	38.0' L	50.0' L	1068		REMOVE BRICK PAV'T SECTION
MN 3+70	MN 4+70	14.0' L	25.0' L	1100		REMOVE CONCRETE PAV'T SECTION
MN 3+79	MN 3+83	7.0' L	1.0' R		32	DAMAGED PAV'T AROUND MANHOLES
MN 4+10	MN 5+20	15.5' R	25.5' R	1100		REMOVE CONCRETE PAV'T SECTION
MN 6+03	MN 6+78	11.0' L	22.0' L	825		REMOVE CONCRETE PAV'T SECTION
MN 6+06	MN 7+86	20.0' R	22.0' R		360	DAMAGED PAV'T IN FRONT OF CURB
MN 8+60	MN 9+72	10.0' R	12.0' R		224	DAMAGED PAV'T AT LANE LINE
MN 9+72	MN 12+22	11.0' R	22.0' R	2750		REMOVE CONCRETE PAV'T SECTION
SP 10+44	SP 13+85	9.0' L	20.0' L	3752		REMOVE CONCRETE PAV'T SECTION
SP 12+32	SP 12+34	28.0' R	42.0'		54	DAMAGED PAV'T IN FRONT OF CURB RADIUS
SP 27+00	SP 28+05			10140		ENTIRE INTERSECTION; LIMITS AOBE
			TOTAL:	47243	894	

NOTES:

1. FULL-DEPTH PAVEMENT RECONSTRUCTION LIMITS ARE ESTIMATED AND SHALL BE VERIFIED AND ADJUSTED IN FIELD.
2. ADDITIONAL FULL-DEPTH PAVEMENT RECONSTRUCTION AREAS MAY BE ADDED AS DEFICIENT PAVEMENT AREAS ARE ENCOUNTERED IN THE FIELD; LIMITS AS DIRECTED BY THE ENGINEER.
3. PAVEMENT PROFILES SHALL BE INSTALLED PER DETAILS ON SHEET MD-03. WHEN TRENCHES ARE 2 FEET WIDE OR LESS, THE CONCRETE BASE DETAIL SHALL BE USED. WHEN TRENCHES ARE GREATER THAN 2 FEET WIDE THE ASPHALT BASE DETAIL SHALL BE USED.

DRIVEWAY APRONS

STATION (SEE NOTE 1)	SIDE	APRON PAVEMENT TYPE	SIDEWALK WIDTH	HEADER WIDTH	NOTES
CL 25+33	LEFT	CONCRETE	16'	18'	FLARED
CL 25+70	LEFT	CONCRETE	12'	14'	FLARED

NOTES

1. STATIONS ARE MEASURED PERPENDICULAR TO THE ROADWAY CENTERLINE AT THE CENTERLINE OF THE DRIVEWAY AT THE CURB OR EDGE OF SHOULDER.
2. ALL DRIVEWAYS SHALL BE SAWCUT FULL DEPTH AT THE TIE-IN POINT, ITEM 627.50140008.
3. SEE SHEET MD-01 FOR DRIVEWAY DETAILS AND MATERIAL THICKNESSES.

SIDEWALK RAMP LOCATION TABLE

			PRECAST BRICK DETECTABLE WARNING SYSTEM	
STATION	SIDE	TYPE	ITEM 608.03 (SF)	ITEM 608.03 (SF) SEE NOTE 2
SP 14+71	LEFT	B	10	
SP 26+82	RIGHT	B	10	
SP 29+94	RIGHT			10
CL 25+97	LEFT	D	10	
CL 31+50	LEFT	B	10	
CN 7+58	LEFT	D	10	
BT 1+44	LEFT	D	10	
BT 8+30	LEFT	D	10	
ILB 1+49	RIGHT			10
ILB 6+75	RIGHT			10

NOTES

1. SEE SHEET MD-01 FOR PRECAST BRICK DETECTABLE WARNING SYSTEM
2. EXISTING SIDEWALK RAMP TO REMAIN. REFER TO MD-01 FOR REMOVAL OF SIDEWALK RAMP FOR NEW DETECTABLE WARNING SYSTEM.
3. SEE SHEET MD-01 FOR RAMP TYPES AND DETAILS.

ITEM 609.0201 - GRANITE CURB

FROM STATION	TO STATION	SIDE	LENGTH	NOTES:
SP 30+09	SP 30+42	R	34	SEE SHEET GP-01
CN 1+72	CN 2+51	L	82	SEE SHEET GP-01
SP 26+60	BT 8+20	L	73	SEE SHEET GP-02
CL 25+04	CL 26+27	L	136	SEE SHEET GP-03
AN 12+58	BT 2+27	R	151	SEE SHEET GP-04
CN 7+39	CL 31+60	L	50	SEE SHEET GP-05

ITEM 605.1502 - CPP UNDERDRAIN TUBING, 6" DIAMETER

FROM STATION	TO STATION	SIDE	LENGTH
SP 30+09	SP 30+42	R	34
CN 1+72	CN 2+51	L	82
SP 26+60	BT 7+54	R/L	147
BT 7+67	ILB 1+66	R	101
CL 25+04	CL 26+27	L	136
AN 12+58	BT 2+27	R	151
CN 7+39	CL 31+60	L	50

ALTERING DRAINAGE STRUCTURES, LEACHING BASINS AND MANHOLES - TYPE 1 (MANHOLES) ITEM 604.070401

STATION	OFFSET	SIDE	DWG. NO.	QUANTITY (EA)	DESCRIPTION
SP 30+29	27.0	RT	GP-01	1	OWNER UNKNOWN
BT 7+90	13.2	LT	GP-02	-	ELECTRIC MANHOLE - ADJUSTMENT BY OTHERS
CL 25+79	16.7	LT	GP-03	-	GAS MANHOLE - ADJUSTMENT BY OTHERS
BT 1+42	11.9	RT	GP-04	-	GAS MANHOLE - ADJUSTMENT BY OTHERS
CN 7+51	23.0	LT	GP-05	1	OWNER UNKNOWN
CL 31+53	30.8	LT	GP-05	-	ELECTRIC MANHOLE - ADJUSTMENT BY OTHERS
			TOTAL	2	

NOTES

FOR ADDITIONAL MANHOLE ADJUSTMENTS SEE THE DRAINAGE TABLE ON DRAWING NO. DT-01.

REV	DESCRIPTION	DATE	BY
7			
6			
5			
4			
3			
2			
1			

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FA PROJECT NO. 121033
PROJECT MANAGER R. BENNETT
DRAWN BY T. DAVIS
SCALE AS SHOWN
ISSUE DATE JULY 2014

STATE OF NEW YORK · RICHARD CHARLES BENNETT · 084070 · LICENSED PROFESSIONAL ENGINEER

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PROJECT
CENTER CITY TWO-WAY CONVERSION
SAINT PAUL STREET AND NORTH CLINTON AVENUE
BETWEEN EAST MAIN STREET AND CUMBERLAND STREET
PIN:13102
CITY OF ROCHESTER, MONROE COUNTY, NEW YORK

TITLE OF DRAWING
MISCELLANEOUS TABLES

DRAWING NO.
MT-01

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7/2/2014 12:49:56 PM
Craig

HYDRANT DISPOSITION TABLE

CL STATION	OFFSET (FT)	SIDE	DISPOSITION	ITEM 663.4106 REMOVE AND DISPOSE OF EXISTING WATER MAIN, 6"	ITEM 663.4112 REMOVE AND DISPOSE OF EXISTING WATER MAIN, 12"	ITEM 663.45 REMOVE AND STORE EXISTING WATER VALVE & VALVE BOX (SEE NOTE 1)	ITEM 663.46 REMOVE AND STORE EXISTING HYDRANT	ITEM 663.0106 DUCTILE IRON CEMENT LINED WATER PIPE, 6"	ITEM 663.1301 HYDRANT	ITEM 663.161206 TAPPING SLEEVE, VALVE & VALVE BOX ASSEMBLY, 12" X 6"	ITEM 663.2306 POLYETHYLENE ENCASEMANT FOR WATER PIPE, 6"	ITEM 663.2002 IRON WATERMAIN FITTINGS (10-16 INCH DIAMETER)		ITEM 663.2001 IRON WATERMAIN FITTINGS (3-6 INCH DIAMETER)			
												SOLID SLEEVE 12"	TOTAL WEIGHT IN POUNDS	SOLID SLEEVE 6"	6"-45 DEGREE BENDS	6" - 90 DEGREE BENDS	TOTAL WEIGHT IN POUNDS
CN 1+47.30	6.0	LT	REMOVE EXISTING HYDRANT AND VALVE BOX AND INSTALL 12" D.I.P. WITH TWO SOLID SLEEVES	3.0	2.0	1	1				2.0	2	290				
CN 1+69.85	5.6	LT	INSTALL NEW DOMESTIC HYDRANT, 6" D.I. BRANCH PIPE, 6" GATE VALVE W/VALVE BOX AND 12"x6" D.I. TAPPING SLEEVE. USE POLY ENCASEMENT. INSTALL ANODES AND JOINT BONDS					4.0	1	1	10.0					1	85
BT 1+79.70	26.0	RT	REMOVE EXISTING HYDRANT AND VALVE BOX	21.0			1										
BT 1+79.70	18.9	RT	INSTALL NEW DOMESTIC HYDRANT, 6" D.I. BRANCH PIPE, CONNECT TO EXISTING D.I.P. WITH 6" SOLID SLEEVE					14.0	1		20.0			1			65
CL 25+56.4	4.2	LT	REMOVE EXISTING HYDRANT AND VALVE BOX	16.0			1										
CL 25+54.6	4.7	LT	INSTALL NEW DOMESTIC HYDRANT, 6" D.I. BRANCH PIPE, CONNECT TO EXISTING VALVE					14.0	1		20.0					1	85
CL 26+13.9	18.3	LT	REMOVE EXISTING HYDRANT AND VALVE BOX	8.0			1										
CL 26+25.6	36.2	LT	INSTALL NEW DOMESTIC HYDRANT, 6" D.I. BRANCH PIPE, TWO 6"x45 BENDS, CONNECT TO EXISTING HYDRANT BRANCH					14.0	1		20.0				2		150
TOTALS				**48.0**	**2**	**1**	**4**	**46.0**	**4**	**1**	**72.0**		**290.0**				**385.0**

NOTES
1) REMOVE EXISTING VALVE BOX, CLOSE VALVE AND PLUG ABANDONED PIPE WITH CONCRETE. ALL COSTS TO BE INCLUDED IN ITEM 663.45.
2) COST FOR ANODES AND JOINT BONDS SHALL BE INCLUDED IN PRICE BID FOR WATERMAIN WORK.

ADJUST EXISTING VALVE BOX ELEVATION ITEM 663.33

STATION	OFFSET (FT)	SIDE	DWG. NO.	QUANTITY (EA)	NOTES
SP 30+15	29.4	RT	GP-01	1	
BT 7+70	16.8	RT	GP-02	1	
CL 25+70	1.0	RT	GP-03	1	
CL 25+80	2.7	LT	GP-03	1	
BT 1+28	1.4	RT	GP-04	1	
NA				10	MISCELLANEOUS QUANTITY
			TOTAL	**15**	

REV	DESCRIPTION	DATE	BY
7			
6			
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3			
2			
1			

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FA PROJECT NO.
121033

PROJECT MANAGER
R. BENNETT

DRAWN BY
T. DAVIS

SCALE
AS SHOWN

ISSUE DATE
JULY 2014

STATE OF NEW YORK · GREGORY CHARLES · 084070 · LICENSED PROFESSIONAL ENGINEER

FISHER ASSOCIATES
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PROJECT
CENTER CITY TWO-WAY CONVERSION
SAINT PAUL STREET AND NORTH CLINTON AVENUE
BETWEEN EAST MAIN STREET AND CUMBERLAND STREET
PIN:13102
CITY OF ROCHESTER, MONROE COUNTY, NEW YORK

TITLE OF DRAWING
MISCELLANEOUS TABLES

DRAWING NO.
MT-02

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7/2/2014 12:58:10 PM
Craig

DRAINAGE STRUCTURE TABLE

STRUCT. NO. ID.	STATION	OFFSET (FT)	TOP	INV.	ITEM 552.17 (SF)	ITEM 604.070401 (EA)	ITEM 604.070402 (EA)	ITEM 604.13000011 (EA)	ITEM 604.500401 (FT)	ITEM 604.500402 (FT)	ITEM 621.04 (EA)	ITEM 655.0517001 (EA)	ITEM 655.1103 (EA)	ITEM 655.25010005 (EA)	DESCRIPTION
1-1	CN 1+87.06	20.49 LT	-	-	-	-	-	1	-	-	-	-	-	-	ABANDON THE EXISTING DRAINAGE STRUCTURE AND PLUG PIPE
1-2	CN 2+47.78	20.49 LT	SEE NOTE 1	SEE NOTE 1	190	-	-	-	4.0	-	-	-	1	-	INSTALL NEW DRAINAGE STRUCTURE AND CONNECT TO THE EXISTING COMBINATION SEWER WITH 20 FT OF 8" PVC, ITEM 603.98100804
2-1	BT 8+13.84	12.29 RT	-	-	-	-	1	-	-	-	1	-	-	-	ADJUST THE EXISTING CATCH BASIN TO FINISHED GRADE
2-2	SP 26+60.00	24.00 RT	-	-	-	-	1	-	-	-	1	-	-	-	ADJUST THE EXISTING CATCH BASIN TO FINISHED GRADE
2-3	BT 8+02.40	19.00 LT	-	-	-	-	1	-	-	-	1	-	-	-	ADJUST THE EXISTING CATCH BASIN TO FINISHED GRADE
3-1	CL 25+83.19	1.84 LT	-	-	-	1	-	-	-	-	-	-	-	-	ADJUST THE EXISTING MANHOLE TO FINISHED GRADE
3-2	CL 26+19.81	23.05 LT	-	-	-	-	1	-	-	-	1	-	-	-	ADJUST THE EXISTING CATCH BASIN TO FINISHED GRADE
4-1	AN 12+47.36	25.29 LT	-	-	-	-	-	-	-	-	-	-	-	-	REMOVE THE EXISTING CATCH BASIN, REMOVAL COST TO BE INCLUDED IN EXCAVATION FOR NEW DRAINAGE STRUCTURE
4-2	AN 12+45.00	23.30 LT	525.57	522.07	254	-	-	-	4.0	-	-	-	1	-	INSTALL NEW DRAINAGE STRUCTURE AND CONNECT TO THE EXISTING COMBINATION SEWER WITH 64 FT OF 8" PVC, ITEM 603.98100804
5-1	CN 7+43.79	20.45 LT	-	-	-	-	-	-	-	-	-	-	-	-	REMOVE THE EXISTING CATCH BASIN, REMOVAL COST TO BE INCLUDED IN EXCAVATION FOR NEW DRAINAGE STRUCTURE
5-2	CN 7+44.10	19.78 LT	SEE NOTE 1	SEE NOTE 1	200	-	-	-	4.0	-	-	-	1	-	INSTALL NEW DRAINAGE STRUCTURE AND CONNECT TO THE EXISTING COMBINATION SEWER WITH 23 FT OF 8" PVC, ITEM 603.98100804

NOTES:

1. CONTRACTOR SHALL DETERMINE THE TOP OF GRATE AND INVERT ELEVATIONS.
2. OFFSETS GIVEN ARE MEASURED TO THE FACE OF CURB FOR NEW CATCH BASINS.
3. CONTRACTOR SHALL DETERMINE INVERT ELEVATIONS OF THE TRUNK LINE SEWER AND VERIFY THE LATERAL CONNECTION LAYOUT PRIOR TO ORDERING NEW INLETS.

DRAINAGE ITEM SUMMARY TABLE

ITEM NUMBER	DESCRIPTION
552.17	SHIELDS AND SHORING
603.98100804	POLYVINYL CHLORIDE (PVC) SEWER PIPE AND FITTINGS, 8" DIAMETER
604.070401	ALTERING DRAINAGE STRUCTURE - TYPE 1 (MANHOLES)
604.070402	ALTERING DRAINAGE STRUCTURE - TYPE 2 (CATCH BASINS)
604.13000011	ABANDONING DRAINAGE STRUCTURES
604.500401	SPECIAL DRAINAGE STRUCTURE (TYPE A & B)
604.500402	SPECIAL DRAINAGE STRUCTURE (TYPE D)
621.04	CLEANING DRAINAGE STRUCTURES AND MANHOLES
655.0517001	REPLACEMENT OF EXISTING DRAINAGE GRATES
655.1103	WELDED FRAME AND RETICULINE GRATE 3
655.25010005	FURNISH AND INSTALL INLET ASSEMBLY, AS SPECIFIED

REV	DESCRIPTION	DATE	BY
7			
6			
5			
4			
3			
2			
1			

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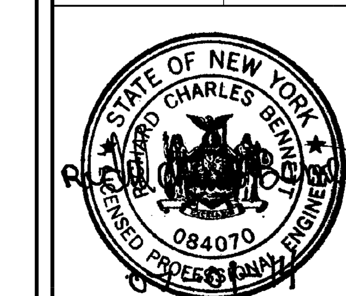
FA PROJECT NO. 121033
PROJECT MANAGER R. BENNETT
DRAWN BY C. PERKINS
SCALE NONE
ISSUE DATE JULY 2014



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CENTER CITY TWO-WAY CONVERSION
SAINT PAUL STREET AND NORTH CLINTON AVENUE
BETWEEN EAST MAIN STREET AND CUMBERLAND STREET
PIN:13102
CITY OF ROCHESTER, MONROE COUNTY, NEW YORK

TITLE OF DRAWING
DRAINAGE TABLES

DRAWING NO.
DT-01

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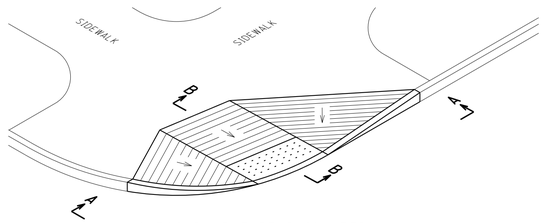
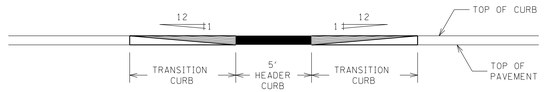
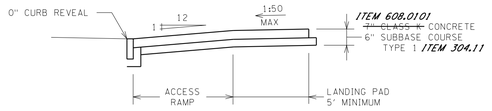
Craig



ACCESS RAMP TYPE D ISOMETRIC



VIEW A-A

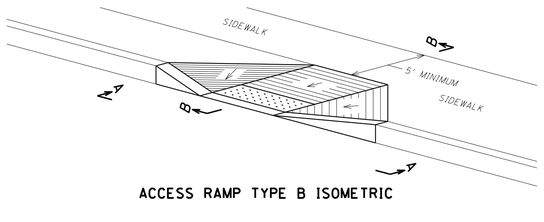


SECTION B-B

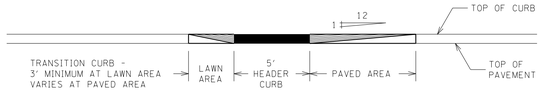
NOTES:

1. 1:12 IS MAXIMUM SLOPE OF ACCESS RAMP AND SIDE FLARES.
2. SURFACE OF ACCESS RAMP IS TO BE STABLE, FIRM AND SLIP-RESISTANT. TEXTURE SURFACE WITH COARSE BROOM RUNNING TRANSVERSE TO SLOPE OF ACCESS RAMP.
3. ENTIRE AREA OF ACCESS RAMP AND LANDING PAD IS TO BE 7 INCH THICK CONCRETE.
4. SEE DETAIL S608-28 FOR DETECTABLE WARNING SYSTEM. *ITEM 608.03*

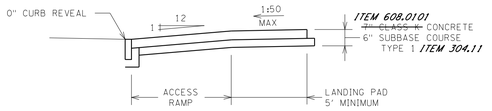
CITY OF ROCHESTER	
SIDEWALK ACCESS RAMP TYPE D	
ISSUED 9-2-91	STANDARD
REVISED 5-1-13	DWG.NO.R608-4



ACCESS RAMP TYPE B ISOMETRIC



VIEW A-A

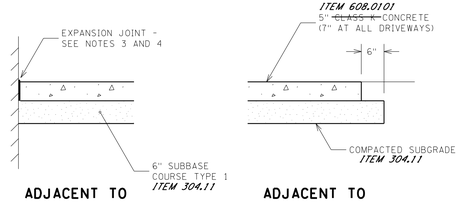


SECTION B-B

NOTES:

1. 1:12 IS MAXIMUM SLOPE OF ACCESS RAMP AND SIDE FLARE IN PAVED AREA.
2. SURFACE OF ACCESS RAMP IS TO BE STABLE, FIRM AND SLIP-RESISTANT. TEXTURE SURFACE WITH COARSE BROOM RUNNING TRANSVERSE TO SLOPE OF ACCESS RAMP.
3. ENTIRE AREA OF ACCESS RAMP AND LANDING PAD IS TO BE 7 INCH THICK CONCRETE.
4. SEE DETAIL S608-28 FOR DETECTABLE WARNING SYSTEM. *ITEM 608.03*

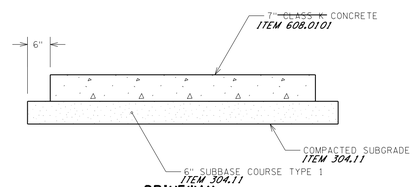
CITY OF ROCHESTER	
SIDEWALK ACCESS RAMP TYPE B	
ISSUED 9-2-91	STANDARD
REVISED 5-1-13	DWG.NO.R608-2



ADJACENT TO WALL OR BUILDING

ADJACENT TO LAWN AREA

SIDEWALK

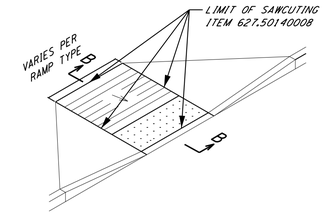


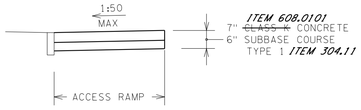
DRIVEWAY

NOTES:

1. MAXIMUM CROSS-SLOPE OF CONCRETE SIDEWALK IS 1:50.
2. ENTIRE AREA OF SIDEWALK ACCESS RAMP AND LANDING PAD IS TO BE 7 INCH THICK CONCRETE.
3. PROVIDE ½INCH WIDE EXPANSION JOINT BETWEEN NEW CONCRETE CONSTRUCTION AND BACK EDGE CURB, CONCRETE GUTTER, OTHER PAVED AREAS, BUILDINGS, WALLS, POLE BASES AND OTHER STRUCTURES/APPURTENANCES.
4. FOR EXPANSION JOINT USE ½INCH WIDE PREMOULDED EXPANSION JOINT MATERIAL, SEALED WITH ½INCH WIDE CAULKING SEALANT ⅝INCH DEEP.
5. SEE DETAILS S608-25 FOR HEAVY-DUTY COMMERCIAL DRIVEWAY PAVEMENT SECTION.

CITY OF ROCHESTER	
CONCRETE SIDEWALK AND DRIVEWAY	
ISSUED 9-2-91	STANDARD
REVISED 5-1-13	DWG.NO.R608-6



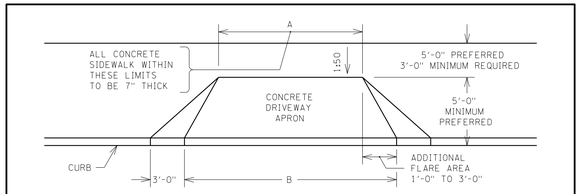


SECTION B-B

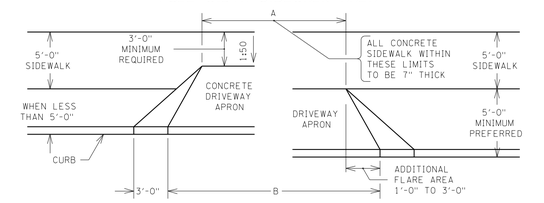
NOTES:

1. SURFACE OF ACCESS RAMP IS TO BE STABLE, FIRM AND SLIP-RESISTANT. TEXTURE SURFACE WITH COARSE BROOM RUNNING TRANSVERSE TO SLOPE OF ACCESS RAMP.
2. SEE DETAIL S608-28 FOR DETECTABLE WARNING SYSTEM. *ITEM 608.03*

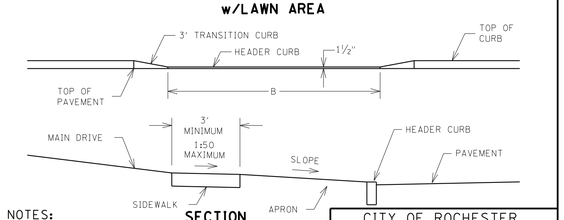
REMOVAL OF SIDEWALK RAMP FOR NEW DETECTABLE WARNING SYSTEM AT EXISTING AND TO REMAIN RAMPS



FULL WIDTH SIDEWALK AREA



w/LAWN AREA

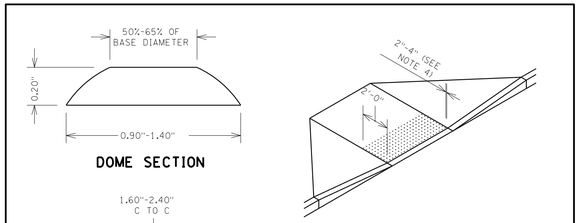


SECTION

NOTES:

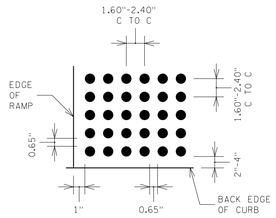
1. DIMENSIONS "A" AND "B" WILL BE AS APPROVED BY THE CITY.
2. FOR RESIDENTIAL DRIVEWAYS "A" WILL BE 10 FEET MINIMUM AND 15 FEET MAXIMUM. FOR COMMERCIAL DRIVEWAYS "A" WILL BE 24 FEET MAXIMUM.
3. DIMENSION "B" WILL BE DIMENSION "A" PLUS 1 FOOT TO 3 FEET ADDITIONAL TAPER, EACH SIDE.

CITY OF ROCHESTER	
DRIVEWAY APRON WITH FLARE	
ISSUED 2-10-00	NON-STANDARD
REVISED 7-29-11	DWG.NO.S608-23



DOME SECTION

ISOMETRIC

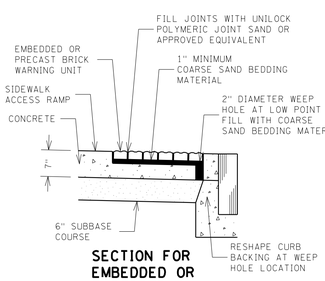


DOME SPACING

NOTES:

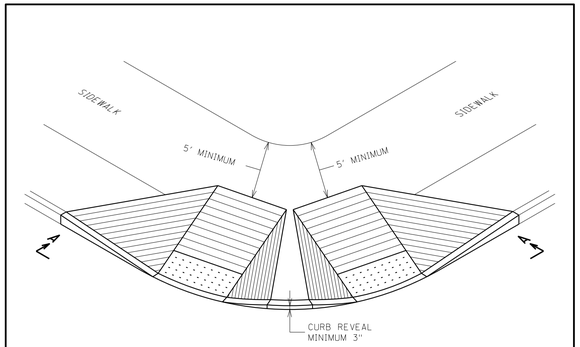
1. QUANTITY OF TRUNCATED DOMES SHOWN IS FOR ILLUSTRATIVE PURPOSES ONLY. TO DEPICT REQUIRED SQUARE GRID PATTERN.
2. TRUNCATED DOMES ARE TO BE ALIGNED IN PARALLEL SQUARE GRID PATTERN IN PREDOMINANT DIRECTION OF TRAVEL.
3. DETECTABLE WARNING SYSTEM FIELD IS TO BE 2 FEET DEEP, AND IS TO EXTEND ACROSS FULL WIDTH OF SIDEWALK ACCESS RAMP, BUT NOT UP SIDE FLARES.
4. DETECTABLE WARNING SYSTEM FIELD IS TO BE LOCATED SUCH THAT OUTER EDGE OF WARNING FIELD NEAREST TO STREET IS 2 TO 4 INCHES OFF BACK EDGE OF CURB.
5. ENTIRE DETECTABLE WARNING SYSTEM FIELD INCLUDING TRUNCATED DOMES, IS TO BE DARK GRAY IN COLOR, PER MUNSELL BOOK NOTATION 10BG 3/1, FEDERAL STANDARD 595B NUMBER 36081 OR DARKER, OR APPROVED EQUIVALENT.

TO BE PAID UNDER ITEM 608.03

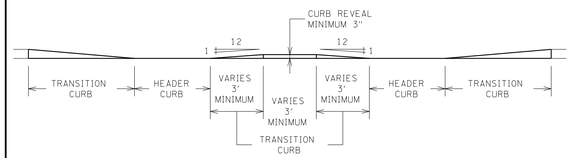


SECTION FOR EMBEDDED OR PRECAST BRICK WARNING UNIT

CITY OF ROCHESTER	
DETECTABLE WARNING SYSTEM AT CURB	
ISSUED 1-23-03	NON-STANDARD
REVISED 5-1-13	DWG.NO.S608-28



LAYOUT ISOMETRIC



VIEW A-A

NOTE:

FOR DETAIL LAYOUT OF SIDEWALK ACCESS RAMPS AND DETECTABLE WARNING FIELD REFER TO APPROPRIATE DETAILS.

CITY OF ROCHESTER	
LAYOUT OF MULTIPLE SIDEWALK ACCESS RAMPS AT RADIUS	
ISSUED 8-2-05	NON-STANDARD
REVISED 5-1-13	DWG.NO.S608-30

ALL CITY OF ROCHESTER CONSTRUCTION DETAILS APPEAR ON THESE SHEETS IN THEIR COMPLETE FORM. ANY AMENDMENTS THERE TO ARE SHOWN IN *BOLD ITALICS*.

REV	DESCRIPTION	DATE	BY
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FA PROJECT NO. 121033
PROJECT MANAGER R. BENNETT
DRAWN BY T. DAVIS
SCALE AS SHOWN
ISSUE DATE JULY 2014

FISHERASSOCIATES
WWW.FISHERASSOC.COM
135 Calkins Road, Rochester, NY 14623
Phone: 585-334-3310

PROJECT
CENTER CITY TWO-WAY CONVERSION
SAINT PAUL STREET AND NORTH CLINTON AVENUE
BETWEEN EAST MAIN STREET AND CUMBERLAND STREET
PIN:13102
CITY OF ROCHESTER, MONROE COUNTY, NEW YORK

TITLE OF DRAWING
MISCELLANEOUS DETAILS

DRAWING NO.
MD-01

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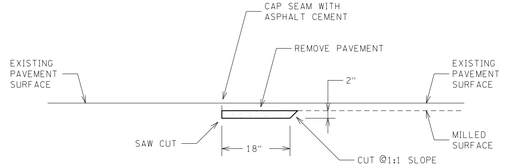
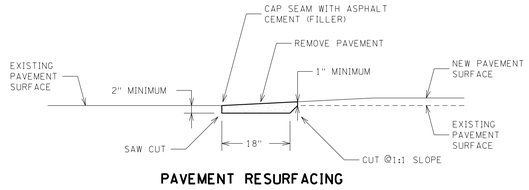
Craig



PAVEMENT MILLING



PAVEMENT RESURFACING

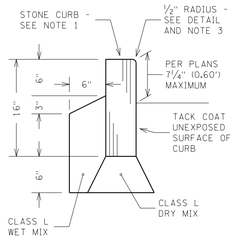
NOTES:

1. PAVEMENT KEYS ARE TO BE CONSTRUCTED SAME DAY AS NEW ASPHALT TOP COURSE IS PLACED, AND ARE NOT TO BE LEFT OPEN OVERNIGHT.
2. SEAMS BETWEEN EXISTING AND NEW PAVEMENT ARE TO BE SEALED WITH ASPHALT CEMENT 702-0700 IN ACCORDANCE WITH NYSDOT SECTION 702 BITUMINOUS MATERIALS.

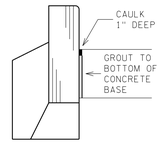
CITY OF ROCHESTER

PAVEMENT KEY

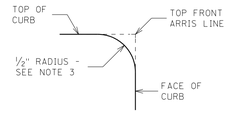
ISSUED 1-13-06	NON-STANDARD
REVISED 7-31-12	DWG.NO.S406-1



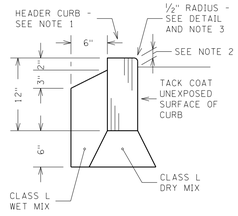
STONE CURB



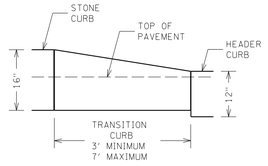
STONE CURB AT RIGID PAVEMENT



DETAIL



HEADER CURB



TRANSITION CURB

TO BE PAID UNDER ITEM 609.0201

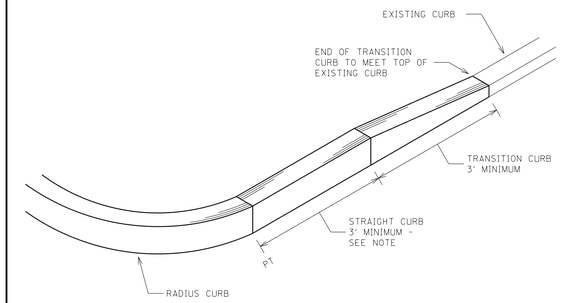
NOTES:

1. CURB THICKNESS IS TO BE 5 INCHES, OR AS REQUIRED IN CONTRACT DOCUMENTS.
2. CURB REVEAL FOR HEADER CURB AT DRIVEWAY APRONS IS 1½INCHES, AT SIDEWALK ACCESS RAMPS 0 INCHES.
3. HEADER CURB USED FOR SIDEWALK ACCESS RAMPS IS NOT TO BE ROUNDED.

CITY OF ROCHESTER

STONE CURB

ISSUED 9-2-91	STANDARD
REVISED 12-30-11	DWG.NO.R609-1



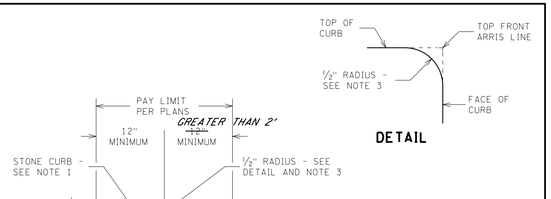
NOTE:

LENGTH OF STRAIGHT CURB WILL BE AS REQUIRED IN CONTRACT DOCUMENTS, WITH 3 FEET MINIMUM.

CITY OF ROCHESTER

NEW CURB TRANSITION TO EXISTING CURB

ISSUED 9-2-91	STANDARD
REVISED 12-30-11	DWG.NO.R609-7



FULL DEPTH PAVEMENT SAW CUT *ITEM 627.50140008*
1½" 9.5 F2 TOP COURSE HMA 80 SERIES COMPACTION *ITEM 402.098202*
2" 19 F9 BINDER COURSE HMA 80 SERIES COMPACTION *SEE NOTE 6* *ITEM 402.198902*
X" 37.5 F9 BASE COURSE HMA 80 SERIES COMPACTION - SEE TABLE *ITEM 402.378902*
6" SUBBASE COURSE TYPE 2 *ITEM 304.12*
5" SUBBASE COURSE TYPE 1 *ITEM 304.11*
6"CORRUGATED POLYETHYLENE UNDERDRAIN PIPE AND FILTER MATERIAL *ITEM 605.1502 AND ITEM 605.0901*

PAVEMENT SECTION	X" BASE COURSE	A (@ PIPE)	B (BOTTOM TRENCH)
~~LIGHT DUTY~~	~~0"~~	~~2'-6"~~	~~3'-2"~~
~~MEDIUM DUTY~~	~~3"~~	~~2'-9"~~	~~3'-5"~~
~~MODIFIED~~	~~6"~~	~~2'-11"~~	~~3'-7"~~
HEAVY-DUTY	8"	3'-1"	3'-9"

6. CURB MODIFICATIONS AND FULL-DEPTH CONSTRUCTION AREAS SHALL BE COMPLETED PRIOR TO THE FINAL MILLING AND TOP COURSE PAVEMENT PLACEMENT. CONTRACTOR SHALL INSTALL 3½ INCHES OF BINDER COURSE AT TIME OF CURB CONSTRUCTION SO THAT WHEN MILLING IS PERFORMED LATER THE TOP COURSE WILL BE PLACED AT 1½ INCHES.

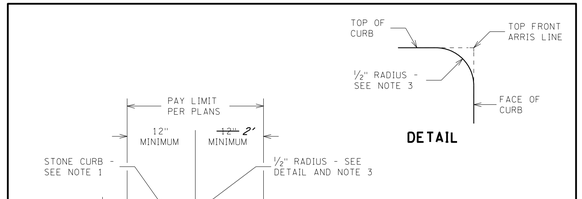
NOTES:

1. CURB THICKNESS IS TO BE 5 INCHES, OR AS REQUIRED IN CONTRACT DOCUMENTS.
2. CURB REVEAL FOR HEADER CURB AT DRIVEWAY APRONS IS 1½INCHES, AT SIDEWALK ACCESS RAMPS 0 INCHES.
3. HEADER CURB USED FOR SIDEWALK ACCESS RAMPS IS NOT TO BE ROUNDED.
4. TACK COAT TO BE APPLIED BETWEEN ALL LIFTS OF HMA COURSES. *ITEM 407.0102*
5. PAVEMENT SEAMS TO BE SEALED WITH BITUMINOUS SEALER IN ACCORDANCE WITH NYSDOT MATERIAL DESIGNATION 702-0700.

CITY OF ROCHESTER

STONE CURB REPLACEMENT - ASPHALT BASE

ISSUED 12-30-11	NON-STANDARD
REVISED	DWG.NO.S609-16



FULL DEPTH PAVEMENT SAW CUT *ITEM 627.50140008*
1½" 9.5 F2 TOP COURSE HMA 80 SERIES COMPACTION *ITEM 402.098202*
2" MINIMUM 19 F9 BINDER COURSE HMA 80 SERIES COMPACTION *SEE NOTE 6* *ITEM 402.198902*
13" MINIMUM CLASS C CONCRETE BASE - TOP OF BASE TO BE EVEN WITH OR LOWER THAN TOP OF EXISTING BASE TO PROVIDE FOR MINIMUM THICKNESS OF 3½" OF ASPHALT TOP AND BINDER COURSES *ITEM 503.1010*
6"CORRUGATED POLYETHYLENE UNDERDRAIN PIPE AND FILTER MATERIAL *ITEM 605.1502 AND ITEM 605.0901*

6. CURB MODIFICATIONS AND FULL-DEPTH CONSTRUCTION AREAS SHALL BE COMPLETED PRIOR TO THE FINAL MILLING AND TOP COURSE PAVEMENT PLACEMENT. CONTRACTOR SHALL INSTALL 3½ INCHES OF BINDER COURSE AT TIME OF CURB CONSTRUCTION SO THAT WHEN MILLING IS PERFORMED LATER THE TOP COURSE WILL BE PLACED AT 1½ INCHES.

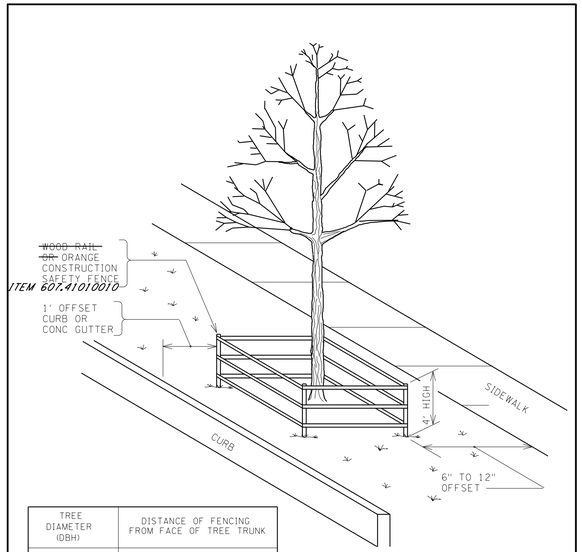
NOTES:

1. CURB THICKNESS IS TO BE 5 INCHES, OR AS REQUIRED IN CONTRACT DOCUMENTS.
2. CURB REVEAL FOR HEADER CURB AT DRIVEWAY APRONS IS 1½INCHES, AT SIDEWALK ACCESS RAMPS 0 INCHES.
3. HEADER CURB USED FOR SIDEWALK ACCESS RAMPS IS NOT TO BE ROUNDED.
4. TACK COAT TO BE APPLIED BETWEEN ALL LIFTS OF HMA COURSES AND ON TOP OF CONCRETE BASE. *ITEM 407.0102*
5. PAVEMENT SEAMS TO BE SEALED WITH BITUMINOUS SEALER IN ACCORDANCE WITH NYSDOT MATERIAL DESIGNATION 702-0700.

CITY OF ROCHESTER

STONE CURB REPLACEMENT - CONCRETE BASE

ISSUED 12-30-11	NON-STANDARD
REVISED	DWG.NO.S609-17



TREE DIAMETER (DBH)	DISTANCE OF FENCING FROM FACE OF TREE TRUNK
LESS THAN 10"	6'
10" - 14"	10'
15" - 19"	12'
20" OR MORE	15'

NOTE:

1. ~~ALL TREES WITHIN THE PROJECT LIMITS THAT ARE TO REMAIN, ARE TO RECEIVE THIS TREATMENT.~~
2. DO NOT LEAVE CONSTRUCTION EQUIPMENT RUNNING (IDLING) UNDER TREE CANOPY.

CITY OF ROCHESTER

TREE PROTECTION

ISSUED 11-20-92	NON-STANDARD
REVISED 7-1-93	DWG.NO.S617-1

ALL CITY OF ROCHESTER CONSTRUCTION DETAILS APPEAR ON THESE SHEETS IN THEIR COMPLETE FORM. ANY AMENDMENTS THERE TO ARE SHOWN IN *BOLD ITALICS.*

REV	DESCRIPTION	DATE	BY
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FA PROJECT NO. 121033
PROJECT MANAGER R. BENNETT
DRAWN BY T. DAVIS
SCALE AS SHOWN
ISSUE DATE JULY 2014

STATE OF NEW YORK — JOHN CHARLES BENNETT — 084070 — LICENSED PROFESSIONAL ENGINEER

FISHER ASSOCIATES
WWW.FISHERASSOC.COM
135 Calkins Road, Rochester, NY 14623
Phone 3856334100

PROJECT
CENTER CITY TWO-WAY CONVERSION
SAINT PAUL STREET AND NORTH CLINTON AVENUE
BETWEEN EAST MAIN STREET AND CUMBERLAND STREET
PIN:13102
CITY OF ROCHESTER, MONROE COUNTY, NEW YORK

TITLE OF DRAWING
MISCELLANEOUS DETAILS

DRAWING NO.
MD-02

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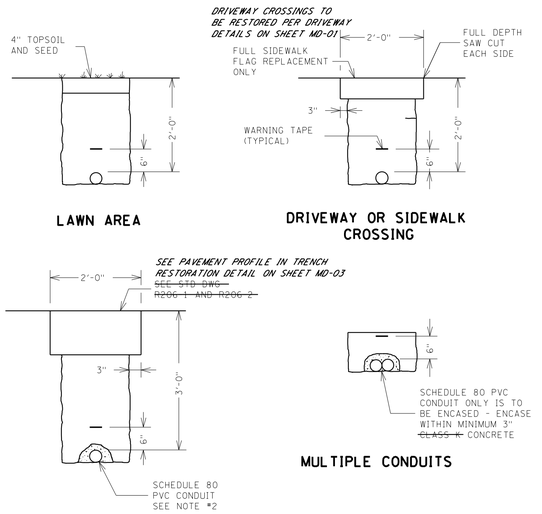
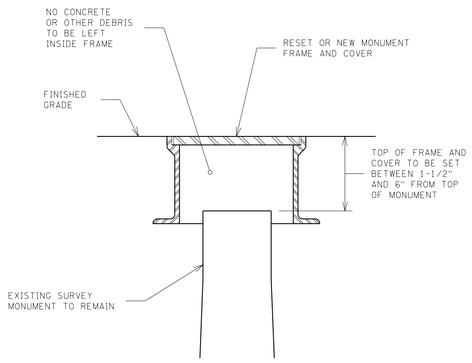


CONDUIT EXCAVATION AND BACKFILL INCLUDING SURFACE RESTORATION TO BE PAID UNDER ITEM 206.03

NOTES:

1. ALL CONDUIT RUNS ARE TO DRAIN INTO THE PULLBOX.
2. IF REQUIRED BY PROJECT MANAGER, CONDUIT FOR ROADWAY CROSSINGS IS TO BE ENCASED WITHIN ~~CLASS A~~ CONCRETE - FROM PULLBOX TO PULLBOX, OR FROM PULLBOX TO LIGHT POLE.

CITY OF ROCHESTER	
CONDUIT TRENCH	
ISSUED 9-2-91	STD. DWG.
REVISED	NO. R671-1

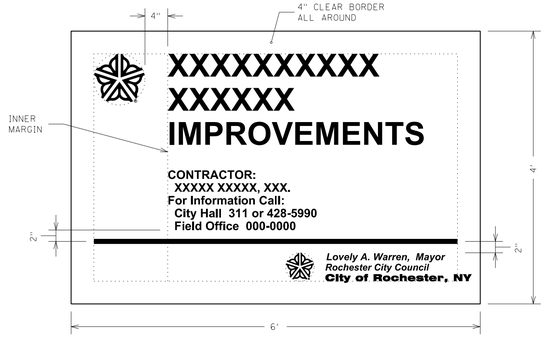


NOTES:

1. MONUMENT FRAME AND COVER TO BE SET CENTERED OVER EXISTING SURVEY MONUMENT.
2. MONUMENT FRAME AND COVER IS TO HAVE FULL AND EVEN BEARING ON UNDERLYING SURFACE AND IS TO BE NON-ROCKING WHEN IN PLACE.
3. MONUMENT FRAME AND COVER IS TO BE SET FLUSH WITH FINISHED GRADE.

TO BE PAID FOR UNDER ITEM 625.0706OOMO

CITY OF ROCHESTER	
RESET/REPLACE MONUMENT FRAME AND COVER	
ISSUED 1-13-06	NON-STANDARD
REVISED	DWG.NO.S626-6



LAYOUT:

- CLEAR BORDER 4" ALL AROUND
- INNER MARGIN 4" BETWEEN UPPER CITY MARK AND TEXT
- UPPER CITY MARK TO BE 9" DIAMETER AND FLUSH WITH CLEAR BORDER
- "CONTRACTOR" AND "FOR INFORMATION CALL" TEXT TO BE FLUSH WITH INNER MARGIN
- LOWER CITY MARK TO BE 5" DIAMETER AND BOTTOM TO BE FLUSH WITH CLEAR BORDER
- RIGHT SIDE MAYOR'S SIGNATURE TO BE FLUSH WITH CLEAR BORDER AND TOP TO LINE UP WITH TOP OF LOWER CITY MARK

LETTERS:

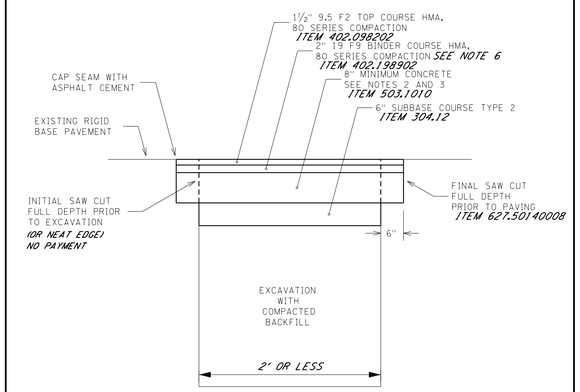
- PROJECT TITLE: SWISS 721 CONDENSED BOLD 4" LETTERS INITIAL CAP 2" LINE SPACING
- CONTRACTOR AND FOR INFORMATION CALL: SWISS 721 CONDENSED BOLD 1.50" LETTERS INITIAL CAP 0.75" LINE SPACING
- MAYOR'S SIGNATURE: SWISS 721 CONDENSED BOLD ITALIC 1.25" LETTERS INITIAL CAP 0.625" LINE SPACING
- ROCHESTER CITY COUNCIL: SWISS 721 CONDENSED BOLD ITALIC 1.1875" LETTERS INITIAL CAP 0.625" LINE SPACING
- CITY OF ROCHESTER: SWISS 721 CONDENSED BOLD 1.25" LETTERS INITIAL CAP

NOTES:

1. PRIOR TO SIGN FABRICATION, CONTRACTOR MUST OBTAIN WRITTEN APPROVAL FROM CITY OF SIGN LAYOUT.
2. BOARD TO BE 6 FOOT x 4 FOOT x ¾INCH PLYWOOD PAINTED WITH 2 COATS WHITE EXTERIOR ENAMEL PAINT.
3. BOTTOM OF SIGN BOARD IS TO BE POSTED MINIMUM OF 5 FEET ABOVE GROUND.
4. CITY MARK AND ALL TEXT TO BE COLORED TO MATCH PMS COLOR 287C BLUE.
5. LINE TO BE 30 POINT RULE.
6. SIGN CAN BE REDUCED PROPORTIONALLY TO 3 FOOT x 2 FOOT AS REQUIRED IN CONTRACT DOCUMENTS.

TO BE PAID FOR UNDER ITEM 619.01

CITY OF ROCHESTER	
PROJECT SIGN	
ISSUED 5-7-01	NON-STANDARD
REVISED	DWG.NO.S999-2



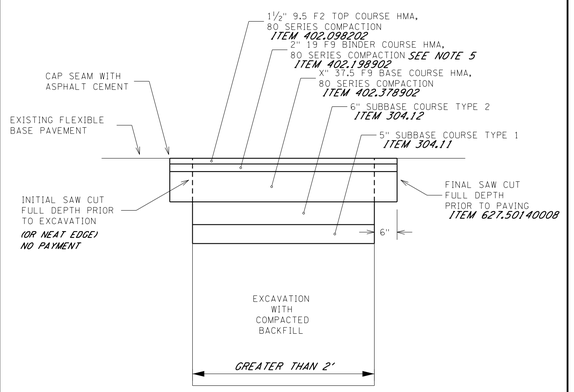
6. CURB MODIFICATIONS AND FULL-DEPTH CONSTRUCTION AREAS SHALL BE COMPLETED PRIOR TO THE FINAL MILLING AND TOP COURSE PAVEMENT PLACEMENT. CONTRACTOR SHALL INSTALL 3½ INCHES OF BINDER COURSE AT TIME OF CURB CONSTRUCTION SO THAT WHEN MILLING IS PERFORMED LATER THE TOP COURSE WILL BE PLACED AT 1½ INCHES.

NOTES:

1. FINAL SAW CUT IS TO BE FULL DEPTH TO OBTAIN STRAIGHT AND NEAT EDGE FOR PAVING. SAW CUT IS TO BE MADE AFTER TRENCH HAS BEEN BACKFILLED AND BEFORE CONSTRUCTING PAVEMENT SECTION.
2. CONCRETE IS TO BE CLASS C ~~OR F~~ IN ACCORDANCE WITH NYSDOT SECTION 503 PORTLAND CEMENT CONCRETE FOUNDATION FOR PAVEMENT.
3. TOP OF NEW CONCRETE BASE IS TO BE AT OR BELOW TOP OF EXISTING CONCRETE BASE TO PROVIDE FOR MINIMUM 8 INCHES OF CONCRETE AND MINIMUM THICKNESSES OF ASPHALT TOP AND BINDER COURSES.
4. TACK COAT IS TO BE APPLIED BETWEEN ALL LIFTS OF HMA PAVEMENT COURSES AND ON TOP OF CONCRETE BASE. *ITEM 407.0102*
5. SEAMS BETWEEN EXISTING AND NEW PAVEMENT ARE TO BE SEALED WITH AN ASPHALT CEMENT (FILLER) THAT IS IN ACCORDANCE WITH NYSDOT MATERIAL DESIGNATION 702-0700.

THIS DETAIL SHALL BE USED IN RECONSTRUCTION AREAS WHERE TRENCH IS 2 FEET WIDE OR LESS

CITY OF ROCHESTER	
TRENCH RESTORATION CONCRETE BASE	
ISSUED 9-2-91	STANDARD
REVISED 2-8-13	DWG.NO.R206-2



5. CURB MODIFICATIONS AND FULL-DEPTH CONSTRUCTION AREAS SHALL BE COMPLETED PRIOR TO THE FINAL MILLING AND TOP COURSE PAVEMENT PLACEMENT. CONTRACTOR SHALL INSTALL 3½ INCHES OF BINDER COURSE AT TIME OF CURB CONSTRUCTION SO THAT WHEN MILLING IS PERFORMED LATER THE TOP COURSE WILL BE PLACED AT 1½ INCHES.

NOTES:

1. FINAL SAW CUT IS TO BE FULL DEPTH TO OBTAIN STRAIGHT AND NEAT EDGE FOR PAVING. SAW CUT IS TO BE MADE AFTER TRENCH IS BACKFILLED.
2. BOTTOM OF ASPHALT BASE COURSE IS TO BE AT OR BELOW BOTTOM OF EXISTING ASPHALT PAVEMENT SECTION TO PROVIDE FOR REQUIRED MINIMUM THICKNESSES OF ASPHALT COURSES. MINIMUM THICKNESS OF ASPHALT BASE COURSE IS:
   - HEAVY-DUTY PAVEMENT - 8 INCHES
   - ~~MEDIUM DUTY PAVEMENT - 3 INCHES~~
   - ~~LIGHT DUTY PAVEMENT - 6 INCHES~~
3. TACK COAT IS TO BE APPLIED BETWEEN ALL LIFTS OF HMA PAVEMENT COURSES. *ITEM 407.0102*
4. SEAMS BETWEEN EXISTING AND NEW PAVEMENT ARE TO BE SEALED WITH ASPHALT CEMENT 702-0700 IN ACCORDANCE WITH NYSDOT SECTION 702 BITUMINOUS MATERIALS.

THIS DETAIL SHALL BE USED IN RECONSTRUCTION AREAS WHERE TRENCH IS GREATER THAN 2 FEET WIDE

CITY OF ROCHESTER	
TRENCH RESTORATION ASPHALT BASE	
ISSUED 9-2-91	STANDARD
REVISED 7-31-12	DWG.NO.R206-1

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FA PROJECT NO. 121033
PROJECT MANAGER R. BENNETT
DRAWN BY T. DAVIS
SCALE AS SHOWN
ISSUE DATE JULY 2014

STATE OF NEW YORK · ERIC CHARLES · 084070 · PROFESSIONAL ENGINEER

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PROJECT
CENTER CITY TWO-WAY CONVERSION
SAINT PAUL STREET AND NORTH CLINTON AVENUE
BETWEEN EAST MAIN STREET AND CUMBERLAND STREET
PIN:13102
CITY OF ROCHESTER, MONROE COUNTY, NEW YORK

TITLE OF DRAWING
MISCELLANEOUS DETAILS

DRAWING NO.
MD-03

SHEET 28 OF 69

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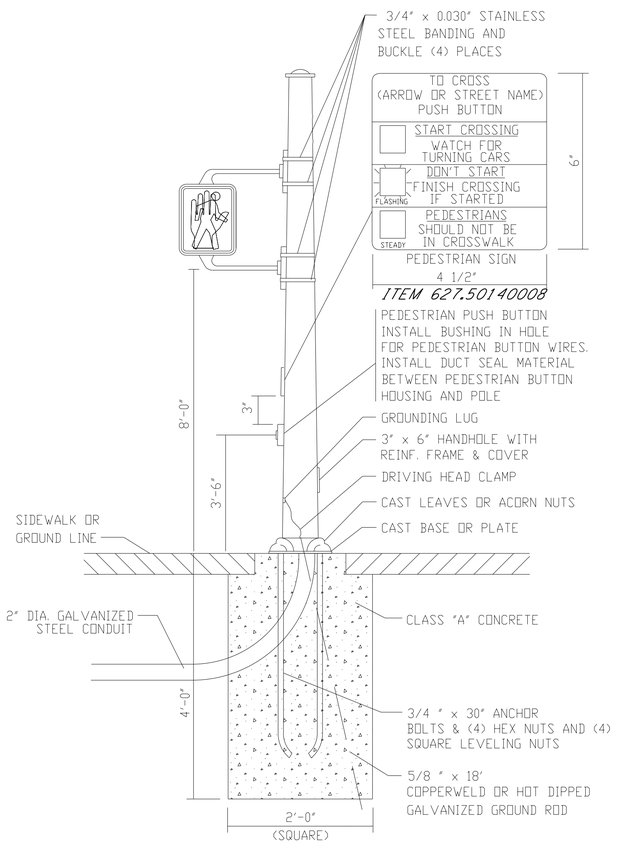
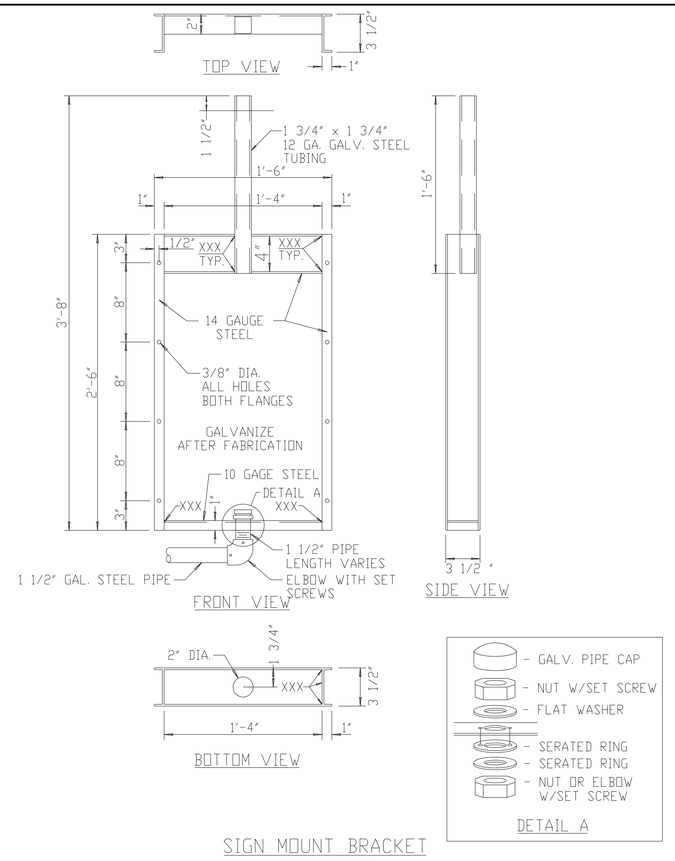
Craig



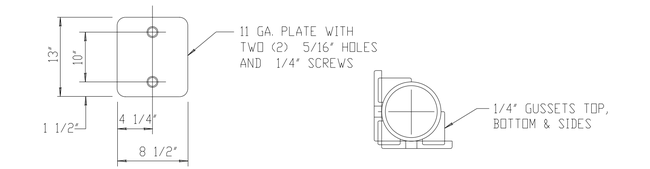
PEDESTRIAN SIGNAL POLE WITH STANDARD PEDESTRIAN SIGNAL

NOT TO SCALE



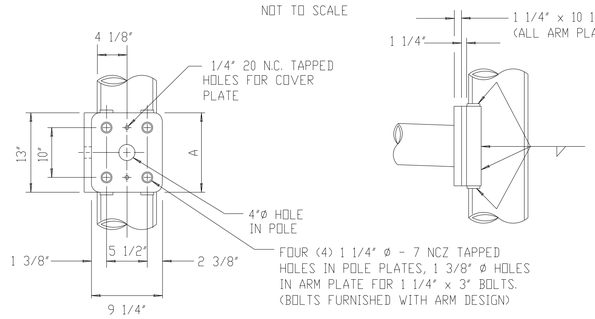
SIGN MOUNT BRACKET

NOT TO SCALE



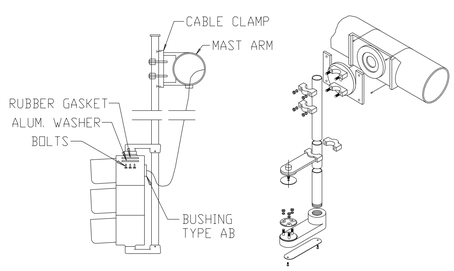
TWO SCREWS & ONE COVER PLATE WITH EACH POLE

NOT TO SCALE



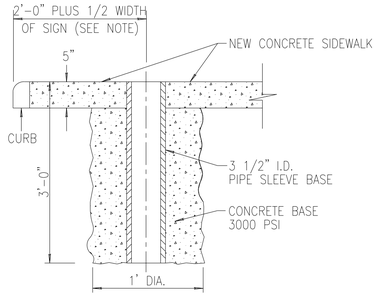
MAST ARM ATTACHMENT

NOT TO SCALE



RIGID SIGNAL HEAD MOUNTING

NOT TO SCALE



NOTE:

IF THERE IS ANY QUESTIONS REGUARDING THE FINAL, ACCEPTABLE LOCATION FOR A SIGN SLEEVE, PLEASE CALL MONROE COUNTY DOT AT 753-7750 AND REQUEST ASSISTANCE.

SIGN POST SLEEVE BASE INSTALLATION

NOT TO SCALE

ITEM 645.050000MO

1.	DETAILS SHOWN ARE TYPICAL ONLY AND NOT INTENDED TO INDICATE THE PRODUCTS OF ANY SPECIFIC MANUFACTURER.
2.	SIGNAL HEAD ARRANGEMENTS ARE SHOWN FOR EXAMPLE ONLY. NUMBER OF DIRECTIONS THE HEAD FACES, NUMBER OF SECTIONS, SIZE OF FACES, SIGNAL INDICATIONS AND ARRANGEMENT OF FACES WILL BE SPECIFIED ON THE PLANS.
3.	SIGNAL HEADS ARE TO BE NORMALLY FURNISHED WITH A CONVENTIONAL WIRE OUTLET BODY DISCONNECT HANGERS, IF REQUIRED WILL BE SPECIFIED ON THE PLANS.
4.	ELBOWS, PIPE CROSSES, WIRE OUTLET AND OTHER FITTINGS SHALL BE EQUIPPED WITH SET SCREWS.
5.	UNUSED HOLES SHALL BE CAPPED.
6.	SIGNAL HEADS SHALL BE ASSEMBLED TO BALANCE AND HANG VERTICALLY.
7.	THREADS ON FITTINGS ARE NATIONAL PIPE STRAIGHT THREADS.
8.	STANDARD OPEN VISORS SHALL BE INSTALLED UNLESS SPECIFIED OTHERWISE ON THE PLANS.
9.	THE CONTRACTOR IS CAUTIONED THAT THE LOCATIONS OF UTILITIES SHOWN ON THE CONTRACT PLANS ARE NOT GUARANTEED, NOR IS THERE ANY GUARANTEE THAT ALL SUCH LINES WITHIN THE CONTRACT LIMITS HAVE BEEN SHOWN ON THE PLANS. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO SATISFY HIMSELF AS TO THE EXACT CONDITIONS, AND AT THEIR OWN EXPENSE, TO PROTECT AND SUPPORT ALL UTILITES ENCOUNTERED IN HIS EXCAVATING AND TRENCHING OPERATIONS.
10.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THESE LINES CAUSED BY HIS OPERATIONS AND IF NATURE OF THE DAMAGE IS SUCH AS TO ENDANGER THE SATISFACTORY OPERATIONS OF THESE UTILITIES AND NECESSARY REPAIRS ARE NOT IMMEDIATELY MADE BY THE CONTRACTOR, THE WORK MAY BE PERFORMED BY THE RESPECTIVE OWNING COMPANIES AND THE COST THEREOF CHARGED TO THE CONTRACTOR.

ALL CITY OF ROCHESTER CONSTRUCTION DETAILS APPEAR ON THESE SHEETS IN THEIR COMPLETE FORM. ANY AMENDMENTS THERE TO ARE SHOWN IN *BOLD ITALICS.*

REV	DESCRIPTION	DATE	BY
7			
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New York State Education Law Section 7209 states that it is a violation of this law, for any person, unless he is acting under the direction of a licensed professional engineer or land surveyor, to alter an item in any way.

If an item bearing the seal of an engineer or land surveyor is altered, the altering engineer or land surveyor shall affix to the item his/her seal and the notation "altered by" followed by his/her signature and the date of such alteration, and a specific description of the alteration.

FA PROJECT NO. 121033
PROJECT MANAGER R. BENNETT
DRAWN BY T. DAVIS
SCALE AS SHOWN
ISSUE DATE JULY 2014

FISHER ASSOCIATES
WWW.FISHERASSOC.COM
135 Calkins Road, Rochester, NY 14623
Phone: (585)334-1310

PROJECT
CENTER CITY TWO-WAY CONVERSION
SAINT PAUL STREET AND NORTH CLINTON AVENUE
BETWEEN EAST MAIN STREET AND CUMBERLAND STREET
PIN:13102
CITY OF ROCHESTER, MONROE COUNTY, NEW YORK

TITLE OF DRAWING
MISCELLANEOUS DETAILS

DRAWING NO.
MD-04

SHEET 29 OF 69

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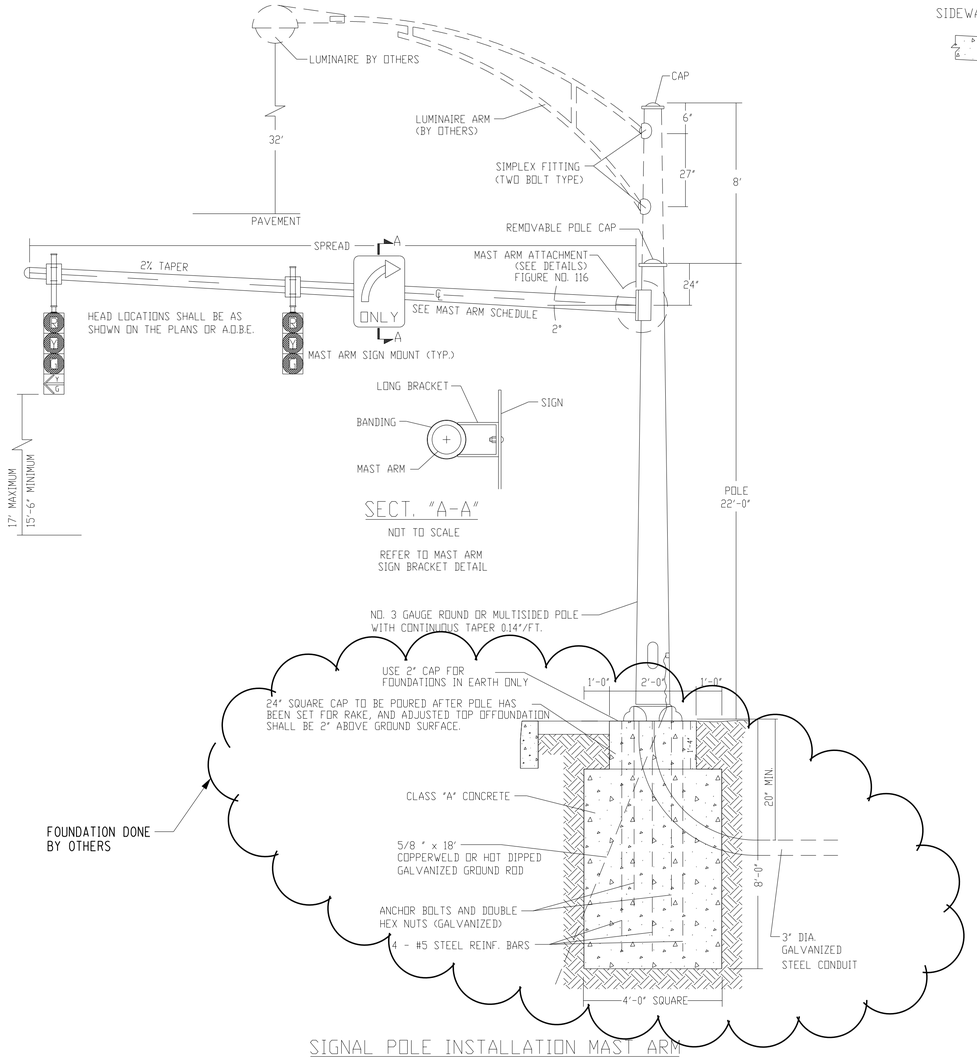


SECT. "A-A"

NOT TO SCALE

REFER TO MAST ARM SIGN BRACKET DETAIL

SIGNAL POLE INSTALLATION MAST ARM

NOT TO SCALE

MAST ARM SCHEDULE			
L	ARM	RESISTING MOMENT	FLANGE
10'	11E 6.0" x 4.60" x 10'-0"	12700 LB-FT	"Y" & "C"
12'	11E 6.0" x 4.32" x 12'-0"	12700 LB-FT	"Y" & "C"
14'	11E 6.0" x 4.04" x 14'-0"	12700 LB-FT	"Y" & "C"
16'	11E 6.0" x 3.76" x 16'-0"	12700 LB-FT	"Y" & "C"
18'	11E 6.0" x 4.48" x 18'-0"	12700 LB-FT	"Y" & "C"
20'	11E 6.0" x 3.20" x 20'-0"	12700 LB-FT	"Y" & "C"
22'	11E 7.0" x 3.92" x 22'-0"	17400 LB-FT	"Y" & "C"
24'	11E 7.0" x 3.64" x 24'-0"	17400 LB-FT	"Y" & "C"
26'	11E 7.0" x 3.36" x 26'-0"	17400 LB-FT	"Y" & "C"
28'	7E 8.0" x 4.06" x 28'-0"	33700 LB-FT	"C"
30'	7E 8.0" x 3.80" x 30'-0"	33700 LB-FT	"C"
32'	7E 8.0" x 3.52" x 32'-0"	33700 LB-FT	"C"
34'	7E 8.0" x 3.24" x 34'-0"	33700 LB-FT	"C"
36'	7E 8.25" x 3.24" x 36'-0"	33700 LB-FT	"C"
38'	7E 8.25" x 3.24" x 36'-0" + 11EB - 3.09" x 2.53" x 2'-0"	33700 LB-FT	"C"
40'	7E 8.25" x 3.24" x 36'-0" + 11EB - 3.09" x 2.53" x 4'-0"	33700 LB-FT	"C"
42'	7E 8.25" x 3.24" x 36'-0" + 11EB - 3.09" x 2.53" x 6'-0"	33700 LB-FT	"C"

PAVEMENT

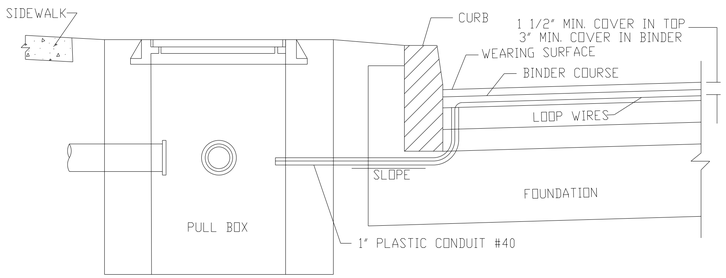
SIGNAL POLE NOTES

A. POLES SHALL BE ADJUSTED BY USE OF THE NUTS ON THE ANCHOR BOLTS SO THAT THEY ARE VERTICAL WHEN ALL SIGNAL HEADS AND SIGNS ARE INSTALLED.

B. POLES SHALL BE LOCATED NO CLOSER TO THE ROADWAY OR CURB THAN THE LINE OF FIXED OBJECTS IN THE IMMEDIATE AREA AND IN NO CASE LESS THAN 2' FROM THE ROADWAY OR CURB.

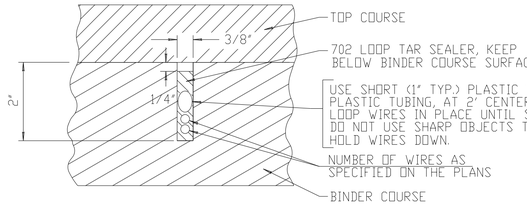
C. BEARING SURFACE OF HOLE SHALL BE UNDISTURBED GROUND OR COMPACTED SOIL. IF A FORM IS REQUIRED OR PRECAST BASE IS USED, IT SHALL BE AS A.D.B.E..

D. POLE FOUNDATION MAY BE REQUIRED TO BE NARROWED AND DEEPENED TO AVOID EXISTING UTILITIES IN SPECIFIC LOCATIONS. ALLOWANCE FOR ANY ADJUSTMENT NECESSARY TO BE INCLUDED IN PRICE BID FOR POLE FOUNDATION.



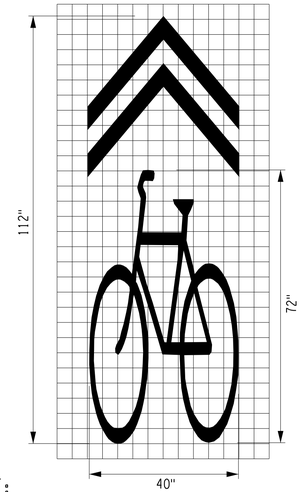
LOOP DETECTOR INSTALLATION TO PULL BOX

NOT TO SCALE



INDUCTANCE LOOP SAW CUT IN ASPHALT BINDER

NOT TO SCALE

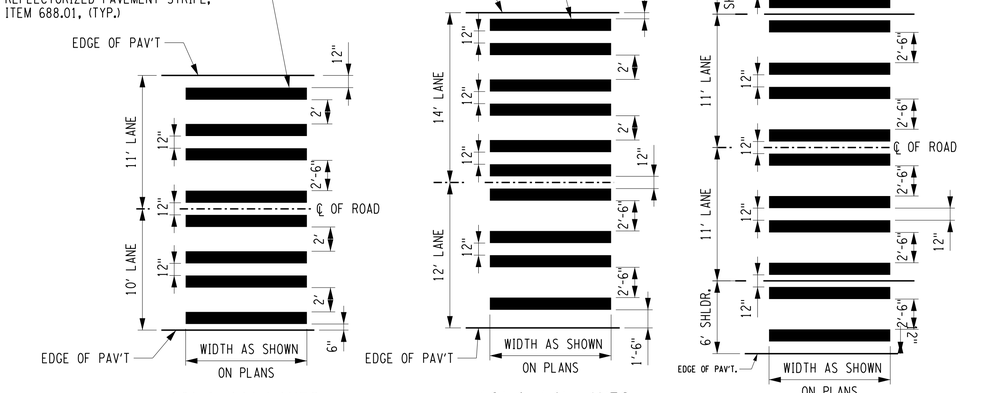


NOTE:

1. ENTIRE SYMBOL SHOWN TO BE PAID FOR AS ONE SYMBOL (BIKE AND ARROWS).
2. CENTERLINE OF SYMBOL TO BE 4' FROM FACE OF CURB.

SHARED LANE MARKING SYMBOL ITEM 688.04

NOT TO SCALE



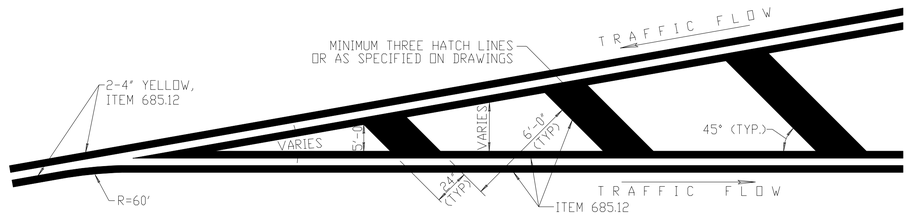
10' & 11' LANES

12' & 14' LANES

11' LANES WITH 4' & 6' SHOULDERS

NOTE: LINES SHALL BE PLACED TO AVOID WHEEL PATHS.

CONTINENTAL CROSSWALK MARKING DETAILS TWO WAY ROADWAYS



BEGINNING OF MEDIANS-STRIPING TREATMENT

NOT TO SCALE

ALL CITY OF ROCHESTER CONSTRUCTION DETAILS APPEAR ON THESE SHEETS IN THEIR COMPLETE FORM. ANY AMENDMENTS THERE TO ARE SHOWN IN *BOLD ITALICS.*

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Craig

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FA PROJECT NO. 121033
PROJECT MANAGER R. BENNETT
DRAWN BY T. DAVIS
SCALE AS SHOWN
ISSUE DATE JULY 2014

STATE OF NEW YORK · JEREMY CHARLES · 084070 · REGISTERED PROFESSIONAL ENGINEER

FISHERASSOCIATES
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135 Calkins Road, Rochester, NY 14623
Phone: 585-334-3170

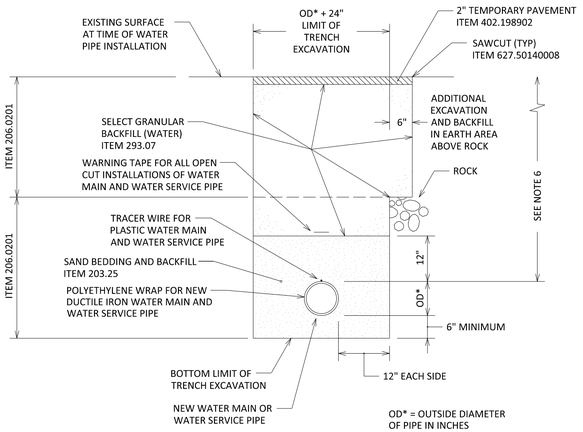
PROJECT
CENTER CITY TWO-WAY CONVERSION
SAINT PAUL STREET AND NORTH CLINTON AVENUE
BETWEEN EAST MAIN STREET AND CUMBERLAND STREET
PIN:13102
CITY OF ROCHESTER, MONROE COUNTY, NEW YORK

TITLE OF DRAWING

DRAWING NO.

MD-05

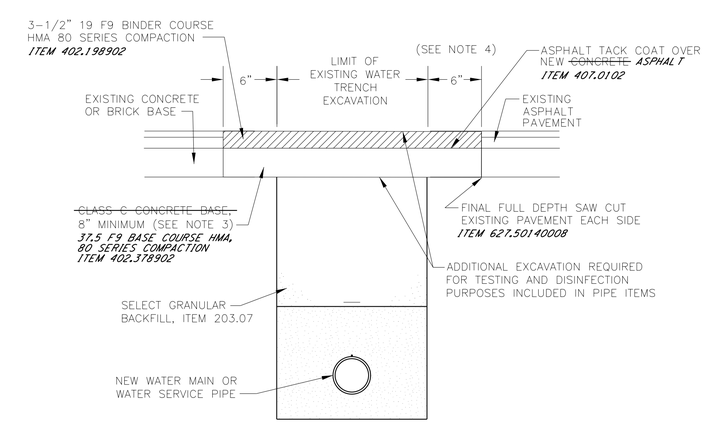
SHEET 30 OF 69



NOTES:

1. LIMITS SHOWN ARE MAXIMUM ALLOWED AND MINIMUM REQUIRED FOR EXCAVATION AND BACKFILL.
2. UPPER LIMIT FOR TRENCH EXCAVATION IS TOP OF EXISTING SURFACE AT TIME OF TRENCH EXCAVATION.
3. UPPER LIMIT FOR ROCK EXCAVATION IS TOP SURFACE OF ROCK.
4. UPPER LIMIT FOR SELECT GRANULAR BACKFILL (WATER) IS BOTTOM OF TEMPORARY PAVEMENT, IF USED, OTHERWISE TOP OF SURFACE.
5. TEMPORARY OR PERMANENT BLOCKS OR ANY OTHER TYPE OF PIPE SUPPORT IS NOT TO BE USED DURING PIPE INSTALLATION.
6. MINIMUM DEPTH OF COVER FOR WATER PIPE FROM TOP OF PROPOSED GRADE IS 4.50 FEET FOR DOMESTIC WATER PIPE, AND 5 FEET FOR HOLLY WATER PIPE, UNLESS OTHERWISE NOTED ON PLANS OR AS DIRECTED BY PROJECT MANAGER.

WATER TRENCH PAVEMENT RECONSTRUCTION STAGE 1

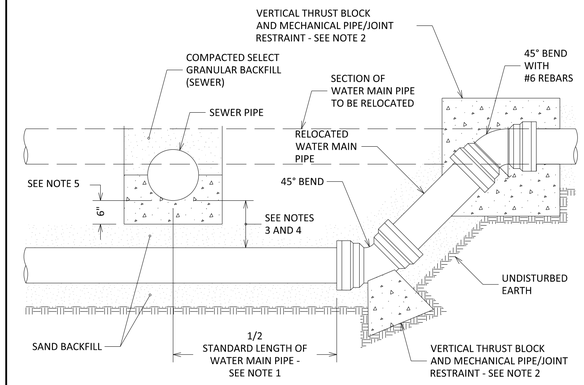


NOTES

1. EXISTING PAVEMENT IS TO BE SAW CUT FULL DEPTH TO OBTAIN A STRAIGHT AND NEAT EDGE FOR PAVING.
2. ALL SEAMS BETWEEN EXISTING AND NEW SURFACES ARE TO BE SEALED WITH AN ASPHALT FILLER CORRESPONDING TO THE MATERIAL REQUIREMENTS OF NYSDOT MATERIAL DESIGNATION 702-0700.
3. ~~CONCRETE~~ FOR NEW BASE IS ~~TO CORRESPOND TO THE REQUIREMENTS OF NYSDOT SECTION 501, CLASS C OR F.~~ TOP OF NEW ~~CONCRETE~~ BASE IS TO BE EVEN WITH OR LOWER THAN TOP OF EXISTING ~~CONCRETE~~ BASE TO PROVIDE FULL THICKNESS OF ASPHALT BINDER, AND MINIMUM 8 INCH ~~CONCRETE~~ BASE.
4. 6 INCH MINIMUM TO BE FROM EDGE OF UNDISTURBED EARTH, EACH SIDE OF TRENCH.

WATER TRENCH PAVEMENT RECONSTRUCTION STAGE 2 WITHIN MILLING AREAS

TO BE COMPLETED AFTER THE TESTING AND APPROVAL OF THE NEW WATER MAIN AND THE TRANSFERRING OF WATER SERVICES



NOTES:

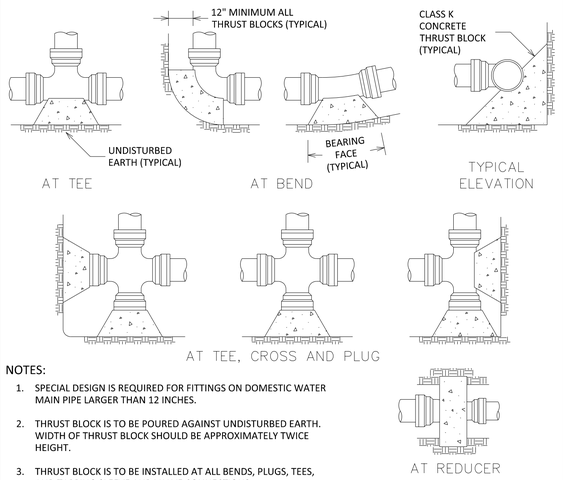
1. ONE STANDARD FULL LENGTH OF WATER MAIN PIPE IS TO BE CENTERED ON SEWER PIPE SO THAT BOTH JOINTS OF WATER MAIN PIPE WILL BE AS FAR FROM SEWER PIPE AS POSSIBLE.
2. THRUST BLOCKS AND PIPE/JOINT RESTRAINTS ARE TO BE PROVIDED AT ALL BENDS, SEE DETAILS S900-5, S900-7, S900-8 AND S900-10.
3. WHERE WATER MAIN PIPE PASSES UNDER SEWER PIPE THERE IS TO BE MINIMUM 18 INCHES OF VERTICAL SEPARATION BETWEEN WATER MAIN PIPE AND SEWER PIPE.
4. WHERE VERTICAL SEPARATION IS LESS THAN 18 INCHES, WATER MAIN PIPE JOINTS LOCATED WITHIN 18 FEET OF BOTH SIDES OF SEWER PIPE MUST BE ENCASED WITHIN CONTROLLED DENSITY FILL MATERIAL, OR SEWER PIPE CONSTRUCTED WITH WATER MAIN STANDARD PIPE AND TESTED TO 150 PSI.
5. WHERE WATER MAIN PIPE PASSES UNDER SEWER PIPE THERE IS TO BE MINIMUM OF 6 INCHES OF CLASS K CONCRETE OR CRUSHED STONE BEDDING MATERIAL FOR SEWER PIPE.

CITY OF ROCHESTER

WATER MAIN CROSSING BELOW SEWER PIPE

ISSUED	1-13-06	NON-STANDARD
REVISED	11-22-10	DWG.NO.S900-3

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



NOTES:

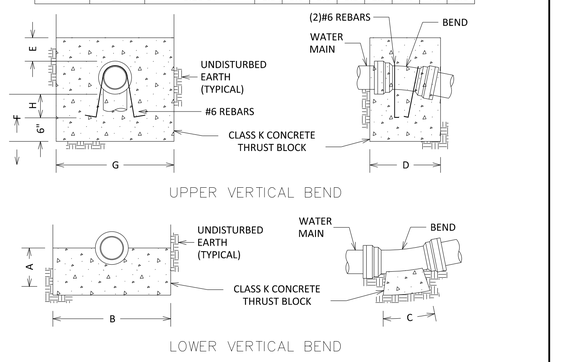
1. SPECIAL DESIGN IS REQUIRED FOR FITTINGS ON DOMESTIC WATER MAIN PIPE LARGER THAN 12 INCHES.
2. THRUST BLOCK IS TO BE POURED AGAINST UNDISTURBED EARTH. WIDTH OF THRUST BLOCK SHOULD BE APPROXIMATELY TWICE HEIGHT.
3. THRUST BLOCK IS TO BE INSTALLED AT ALL BENDS, PLUGS, TEES, AND TAPPING SLEEVE AND VALVE CONNECTIONS.
4. FACTORY CAST OFFSETS ARE TO BE TREATED AS (2) 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, SEE DETAIL S900-7.
7. WOOD BLOCKING IS NOT PERMITTED.

CITY OF ROCHESTER

HORIZONTAL THRUST BLOCK DOMESTIC SYSTEM

ISSUED	1-13-06	NON-STANDARD
REVISED	8-7-13	DWG.NO.S900-4

PIPE SIZE (INCHES)	BEND	TOP SECTION MINIMUM VOLUME CONCRETE	MINIMUM DIMENSIONS (IN FEET)							
			A	B	C	D	E	F	G	H
6"	11-1/4°	0.25 CY	1.0	2.5	1.0	1.5	0.5	1.0	2.5	0.5
	22-1/2°	0.50 CY	1.0	2.5	1.0	1.5	1.0	2.0	2.5	1.5
	45°	0.95 CY	1.0	2.5	1.0	3.0	1.5	2.0	2.5	1.5
	90°	1.30 CY	1.0	2.5	2.0	3.5	1.5	2.0	2.5	1.5
8"	11-1/4°	0.45 CY	1.0	2.7	1.0	1.5	1.0	1.5	2.7	1.0
	22-1/2°	0.90 CY	1.0	2.7	1.0	2.5	1.0	2.0	2.7	1.5
	45°	1.65 CY	1.0	2.7	1.5	3.5	1.5	2.0	3.0	1.5
	90°	2.35 CY	1.5	2.7	3.0	4.0	2.0	3.0	3.0	2.5
12"	11-1/4°	1.05 CY	1.0	3.0	1.5	2.5	1.5	2.0	3.0	1.5
	22-1/2°	2.00 CY	1.0	3.0	1.5	4.0	2.0	2.0	3.0	1.5
	45°	3.70 CY	1.5	3.0	3.0	5.0	2.0	3.0	3.5	2.5
	90°	5.20 CY	1.5	3.0	5.0	5.5	2.5	3.5	4.0	3.0



NOTES:

1. SPECIAL DESIGN IS REQUIRED FOR FITTINGS ON DOMESTIC WATER MAIN PIPE LARGER THAN 12 INCHES.
2. MECHANICAL RESTRAINT IS REQUIRED IN ADDITION TO THRUST BLOCK, SEE DETAIL S900-7.

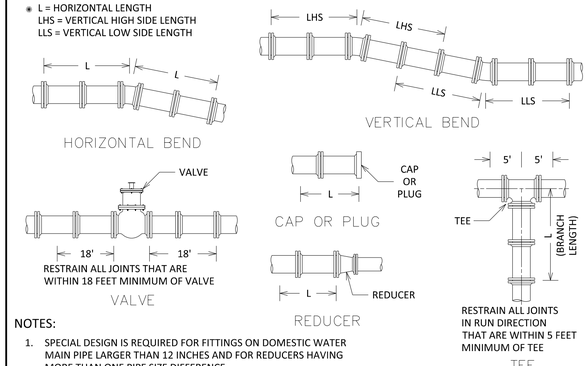
CITY OF ROCHESTER

VERTICAL THRUST BLOCK DOMESTIC SYSTEM

ISSUED	1-13-06	NON-STANDARD
REVISED	6-1-09	DWG.NO.S900-5

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"	L	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, SEE DETAILS S900-4 AND S900-5.
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.

CITY OF ROCHESTER

WATER MAIN PIPE RESTRAINT DOMESTIC SYSTEM

ISSUED	5-8-08	NON-STANDARD
REVISED	9-1-09	DWG.NO.S900-7

REV	DESCRIPTION	DATE	BY
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FA PROJECT NO. 121033
PROJECT MANAGER R. BENNETT
DRAWN BY T. DAVIS
SCALE AS SHOWN
ISSUE DATE JULY 2014

FISHERASSOCIATES
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PROJECT
CENTER CITY TWO-WAY CONVERSION
SAINT PAUL STREET AND NORTH CLINTON AVENUE
BETWEEN EAST MAIN STREET AND CUMBERLAND STREET
PIN:13102
CITY OF ROCHESTER, MONROE COUNTY, NEW YORK

TITLE OF DRAWING

DRAWING NO.

MD-06

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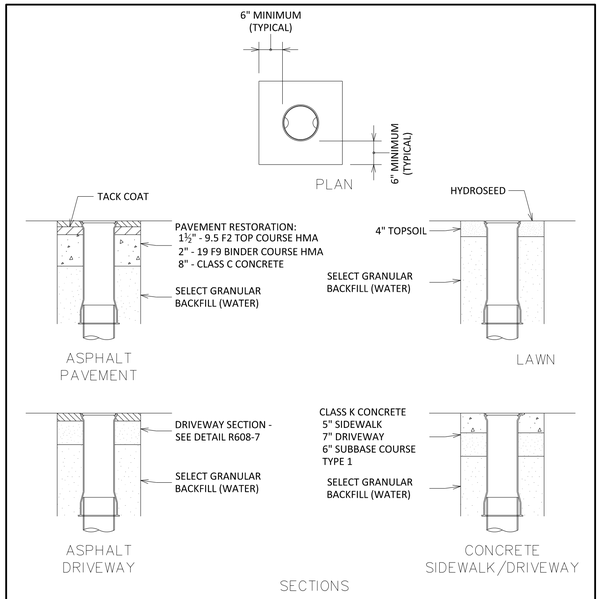
7/2/2014 12:58:36 PM
Craig



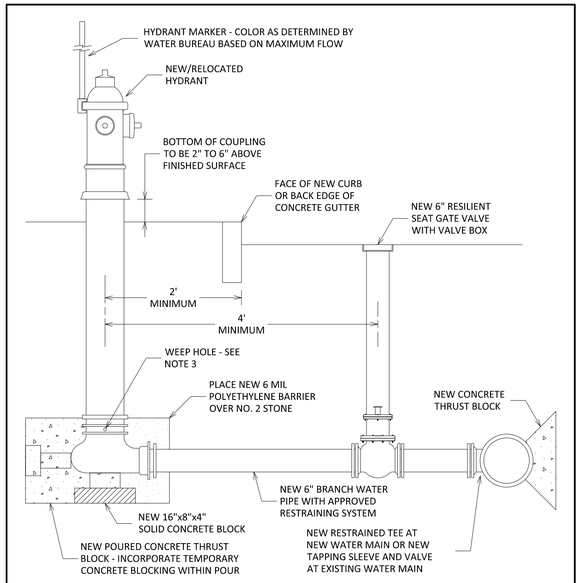
NOTES:

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.

CITY OF ROCHESTER

WATER VALVE BOX ADJUSTMENT OR REPLACEMENT

ISSUED	2-10-00	NON-STANDARD
REVISED	6-1-09	DWG.NO.S909-1



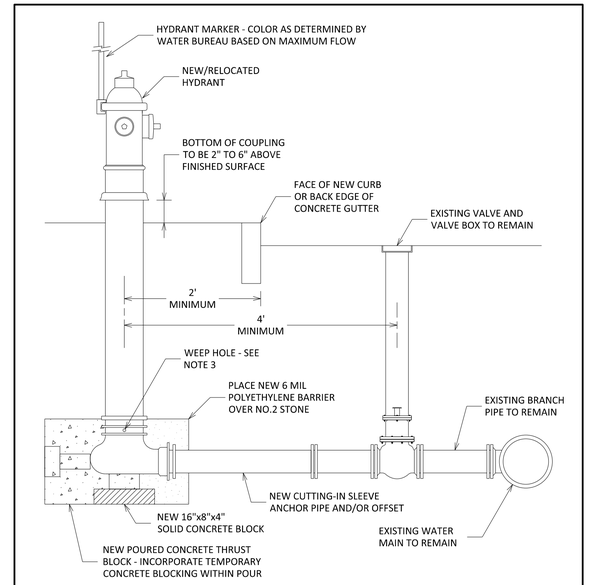
NOTES:

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 IN TRENCH, IF APPROVED OF BY CITY, HYDRANT WEEP HOLES MAY BE PLUGGED AND STONE DRAIN OMITTED. CONTRACTOR IS TO NOTIFY WATER BUREAU IN WRITING WHEN WEEP HOLES HAVE BEEN PLUGGED.
4. HYDRANT MARKERS TO BE FURNISHED BY WATER BUREAU AND INSTALLED BY CONTRACTOR.

CITY OF ROCHESTER

HYDRANT AND VALVE WITH NEW BRANCH

ISSUED	9-2-91	STD. DWG.
REVISED	12-20-13	NO. R917-1



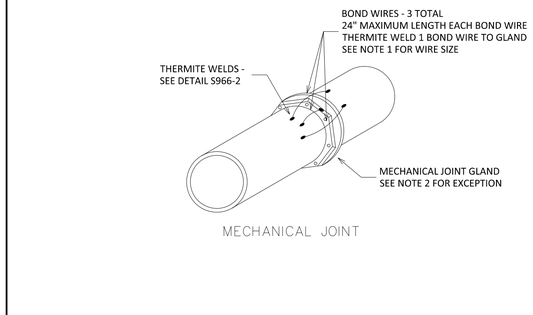
NOTES:

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 IN TRENCH, IF APPROVED OF BY CITY, HYDRANT WEEP HOLES MAY BE PLUGGED AND STONE DRAIN OMITTED. CONTRACTOR IS TO NOTIFY WATER BUREAU IN WRITING WHEN WEEP HOLES HAVE BEEN PLUGGED
4. HYDRANT MARKERS TO BE FURNISHED BY WATER BUREAU AND INSTALLED BY CONTRACTOR.

CITY OF ROCHESTER

HYDRANT AT EXISTING BRANCH

ISSUED	9-2-91	STD. DWG.
REVISED	12-20-13	NO. R917-2



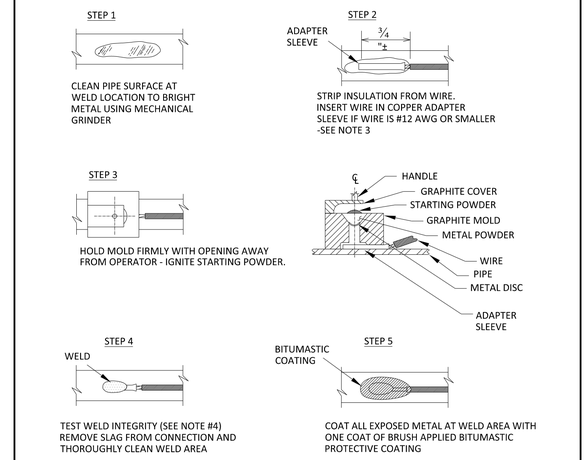
NOTES:

1. USE #8 AWG STRANDED COPPER WIRE WITH HMWPE INSULATION FOR JOINT BONDS ON PIPE SIZES 12 INCHES IN DIAMETER AND SMALLER AND USE #4 AWG STRANDED COPPER WIRE WITH HMWPE INSULATION FOR JOINT BONDS ON PIPE SIZES LARGER THAN 12 INCHES IN DIAMETER.
2. JOINT BONDS ARE NOT REQUIRED AT MECHANICAL JOINTS WHERE MECHANICAL JOINT RESTRAINT GLANDS HAVE BEEN INSTALLED
3. PIPE AND FITTING GASKETS ARE TO BE COVERED AND PROTECTED FROM DAMAGE WHEN INSTALLING JOINT BONDS

CITY OF ROCHESTER

JOINT BOND FOR METALLIC WATER MAIN PIPE/FITTING

ISSUED	1-13-06	NON-STANDARD
REVISED	9-16-13	DWG.NO.S962-1



NOTES:

1. FOLLOW MANUFACTURER'S PROCEDURES AND RECOMMENDATIONS WHEN THERMITE WELDING.
2. USE APPROPRIATE WELD MOLDS AND WELD METALS FOR SPECIFIC SIZE AND MATERIAL OF PIPE THAT WIRE IS BEING ATTACHED TO.
3. WHEN THERMITE WELDING #12 AWG WIRES OR SMALLER, INSERT END OF WIRE INTO AN APPROVED COPPER SLEEVE PRIOR TO THERMITE WELDING AND CRIMP SLEEVE ON WIRE.
4. TEST WELD INTEGRITY BY STRIKING WELD WITH A HAMMER AFTER WELD HAS COOLED. AVOID STRIKING WIRE.

CITY OF ROCHESTER

THERMITE WELD DETAILS

ISSUED	10-17-08	NON-STANDARD
REVISED	12-28-10	DWG.NO.S966-2

REV	DESCRIPTION	DATE	BY
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FA PROJECT NO.
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R. BENNETT
DRAWN BY
T. DAVIS
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PROJECT
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PIN:13102
CITY OF ROCHESTER, MONROE COUNTY, NEW YORK

TITLE OF DRAWING

DRAWING NO.
MD-07

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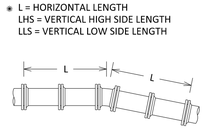
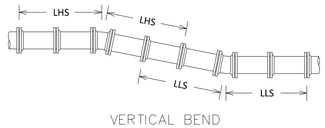
Craig

MINIMUM RESTRAINED LENGTH FOR WATER MAIN PIPE ADJACENT TO FITTINGS (IN FEET) (BASED ON INTERNAL PRESSURE OF 250 PSI) (SEE NOTE 1)								
PIPE SIZE (INCHES)	MINIMUM LENGTH *	90°	45°	22-1/2°	11-1/4°	REDUCER	TEE	CAP PLUG
4" - 6"	L	23	10	5	3	44	44	85
	LHS	74	35	17	9	---	---	---
	LLS	23	9	5	3	---	---	---
8"	L	30	13	6	3	47	70	111
	LHS	96	46	23	11	---	---	---
	LLS	30	12	6	3	---	---	---
12"	L	43	18	9	5	84	117	159
	LHS	138	66	32	16	---	---	---
	LLS	43	16	8	4	---	---	---

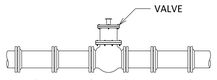
* L = HORIZONTAL LENGTH
LHS = VERTICAL HIGH SIDE LENGTH
LLS = VERTICAL LOW SIDE LENGTH



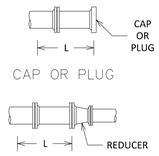
HORIZONTAL BEND



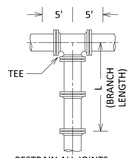
VERTICAL BEND



RESTRAIN ALL JOINTS THAT ARE WITHIN 18 FEET MINIMUM OF VALVE
VALVE



CAP OR PLUG
REDUCER



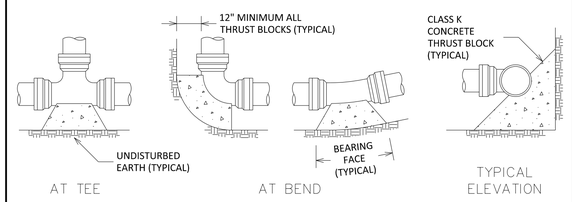
RESTRAIN ALL JOINTS IN RUN DIRECTION THAT ARE WITHIN 5 FEET MINIMUM OF TEE
TEE

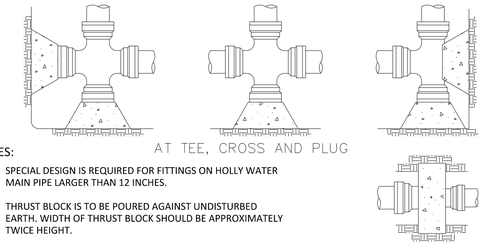
NOTES:

1. SPECIAL DESIGN IS REQUIRED FOR FITTINGS ON HOLLY 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, SEE DETAILS S900-9 AND S900-10.
3. ALL POLYETHYLENE WRAPPED DUCTILE IRON HOLLY WATER MAIN PIPE AND FITTING JOINTS WITHIN L-LHS-LLS DIMENSIONS MUST BE RESTRAINED USING APPROVED MECHANICAL RESTRAINT DEVICE.
4. ASSUMPTION: SP SOILS, 5 FEET COVER, AND TYPE 4 LAYING CONDITION.

CITY OF ROCHESTER		
WATER MAIN PIPE RESTRAINT HOLLY SYSTEM		
ISSUED	5-8-08	NON-STANDARD
REVISED	9-1-09	DWG.NO.S900-8

AREA OF BEARING FACE OF THRUST BLOCK IN SQUARE FEET (AREA BASED ON INTERNAL PRESSURE OF 250 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"	7	4	2	1	5	6" x 4" / 3
8"	12	7	4	2	8	8" x 6" / 3.5
12"	25	14	7	4	18	12" x 8" / 9.5



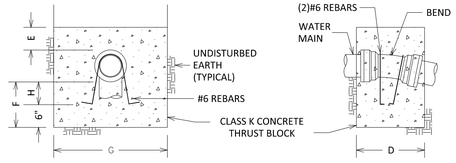


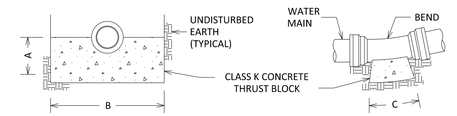
NOTES:

1. SPECIAL DESIGN IS REQUIRED FOR FITTINGS ON HOLLY 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, TEES, AND TAPPING SLEEVE AND VALVE CONNECTIONS.
4. FACTORY CAST OFFSETS ARE TO BE TREATED AS (2) 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, SEE DETAIL S900-8.
7. WOOD BLOCKING IS NOT PERMITTED.

CITY OF ROCHESTER		
HORIZONTAL THRUST BLOCK HOLLY SYSTEM		
ISSUED	6-1-09	NON-STANDARD
REVISED	8-7-13	DWG.NO.S900-9

PIPE SIZE	BEND	TOP SECTION MINIMUM VOLUME CONCRETE	MINIMUM DIMENSIONS (IN FEET)							
			A	B	C	D	E	F	G	H
6"	11-1/4"	0.45 CY	1.0	2.5	1.0	2.0	1.0	1.0	2.5	0.5
	22-1/2"	0.85 CY	1.0	2.5	1.0	2.5	1.5	2.0	2.5	1.5
	45°	1.55 CY	1.0	2.5	1.5	4.0	1.5	2.0	2.5	1.5
	90°	2.20 CY	1.0	2.5	3.0	5.0	2.0	2.5	2.5	2.0
8"	11-1/4"	0.75 CY	1.0	2.7	1.0	2.0	1.0	2.0	3.0	1.5
	22-1/2"	1.50 CY	1.0	2.7	1.5	3.5	1.0	2.5	3.0	2.0
	45°	2.75 CY	1.0	2.7	2.5	5.0	1.5	2.5	3.5	2.0
	90°	3.85 CY	1.5	2.7	4.5	5.0	2.0	3.5	3.5	3.0
12"	11-1/4"	1.70 CY	1.0	3.0	1.5	3.5	1.5	2.0	3.0	1.5
	22-1/2"	3.35 CY	1.0	3.0	2.5	5.0	2.0	2.5	3.0	2.0
	45°	6.15 CY	1.5	3.0	4.5	6.5	2.5	4.0	3.5	3.5
	90°	8.70 CY	2.0	3.0	8.5	8.0	2.5	4.0	4.0	3.5





NOTES:

1. SPECIAL DESIGN IS REQUIRED FOR FITTINGS ON HOLLY WATER MAIN PIPE LARGER THAN 12 INCHES.
2. MECHANICAL RESTRAINT IS REQUIRED IN ADDITION TO THRUST BLOCK, SEE DETAIL S900-8.

CITY OF ROCHESTER		
VERTICAL THRUST BLOCK HOLLY SYSTEM		
ISSUED	6-1-09	NON-STANDARD
REVISED		DWG.NO.S900-10

REV	DESCRIPTION	DATE	BY
7			
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PROJECT MANAGER R. BENNETT
DRAWN BY T. DAVIS
SCALE AS SHOWN
ISSUE DATE JULY 2014

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PROJECT
CENTER CITY TWO-WAY CONVERSION
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BETWEEN EAST MAIN STREET AND CUMBERLAND STREET
PIN:13102
CITY OF ROCHESTER, MONROE COUNTY, NEW YORK

TITLE OF DRAWING
MISCELLANEOUS DETAILS

DRAWING NO.
MD-08

SHEET 33 OF 69

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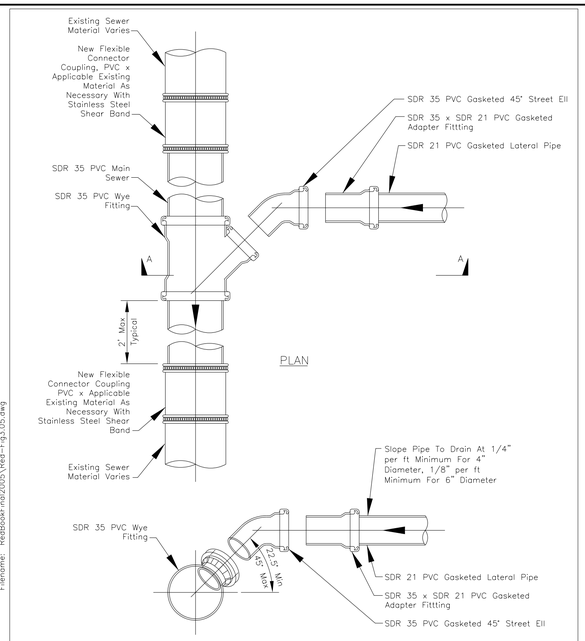
Craig



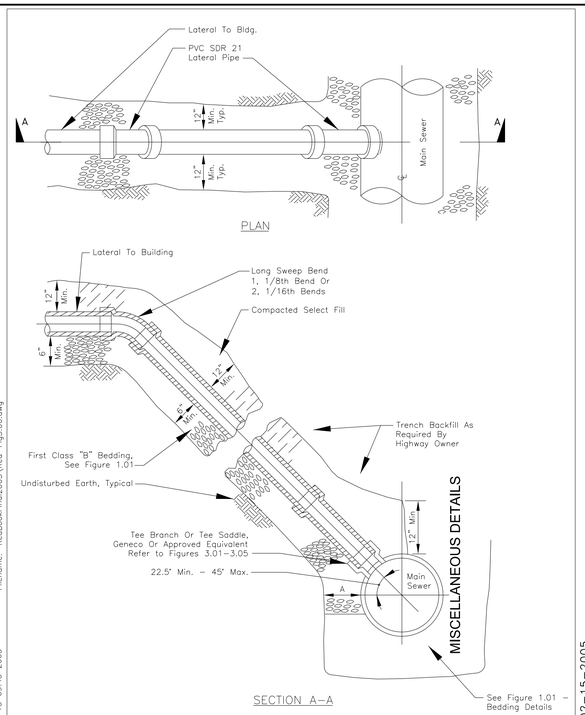
NOTES:

1. Main sewer pipe, lateral pipe, wye and other fittings shall be gasketed type fittings. Solvent weld joints are not allowed, except at cleanouts, see Figures 4.01–4.07.
2. See Figure 1.01 for pipe bedding and backfill.
3. This detail does not apply to existing PVC sewers. See Figure 3.04 for connection to existing PVC Sewer.
4. *ALL FITTINGS AND CONNECTIONS TO BE INCLUDED IN THEIR RESPECTIVE PIPE ITEMS 603.9810XX04*

MONROE COUNTY PURE WATERS

Feb 2005	NEW LATERAL WYE CONNECTION TO EXISTING NON–PVC SEWER	FIGURE 3.05

Filename: RedBookFinal2005\Red-Fig3.05.dwg
Time Printed: Tues Feb 15 09:45 2005
Final 02-15-2005

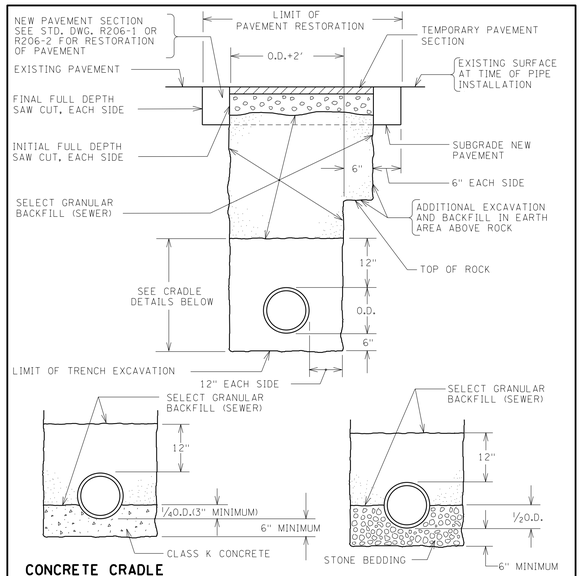


1. *ALL FITTINGS AND CONNECTIONS TO BE INCLUDED IN THEIR RESPECTIVE PIPE ITEMS 603.9810XX04*

MONROE COUNTY PURE WATERS

Feb 2005	LATERAL RISER CONNECTION	FIGURE 3.06

Filename: RedBookFinal2005\Red-Fig3.06.dwg
Time Printed: Tues Feb 15 09:45 2005
Final 02-15-2005



CONCRETE CRADLE

NOTES:

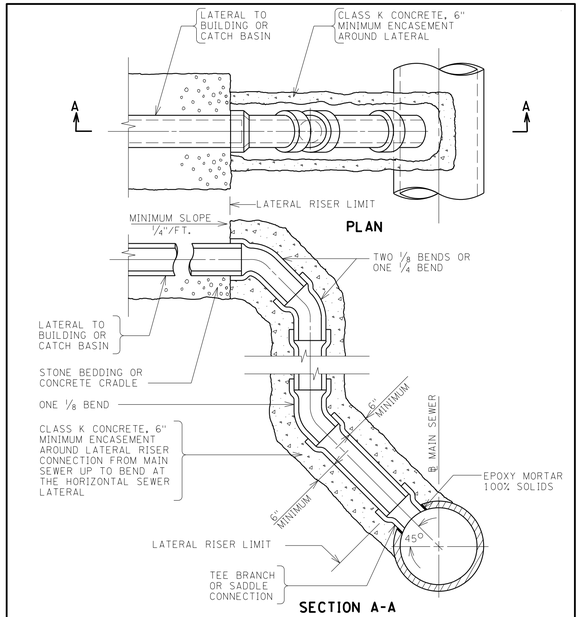
1. LIMITS SHOWN ARE MAXIMUM ALLOWED AND MINIMUM REQUIRED FOR EXCAVATION AND BACKFILL.
2. UPPER PAY LIMITS FOR TRENCH EXCAVATION IS TOP OF EXISTING SURFACE, AT TIME OF TRENCH EXCAVATION.
3. UPPER PAY LIMITS FOR ROCK EXCAVATION IS TOP SURFACE OF ROCK.
4. UPPER PAY LIMIT FOR SELECT GRANULAR BACKFILL (SEWER) IS BOTTOM OF TEMPORARY PAVEMENT (IF USED), OR FINISHED SURFACE IF SELECT GRANULAR BACKFILL (SEWER) IS PLACED UP TO FINISHED SURFACE AS NOTED ON THE DRAWINGS.
5. TEMPORARY OR PERMANENT BLOCKS OR ANY OTHER TYPE OF PIPE SUPPORT IS NOT TO BE USED DURING PIPE INSTALLATION.

STONE CRADLE

CITY OF ROCHESTER

SEWER LATERAL TRENCH REHABILITATION AREA

ISSUED	9-2-91	STD. DWG.
REVISED	10-21-03	NO. R601-2



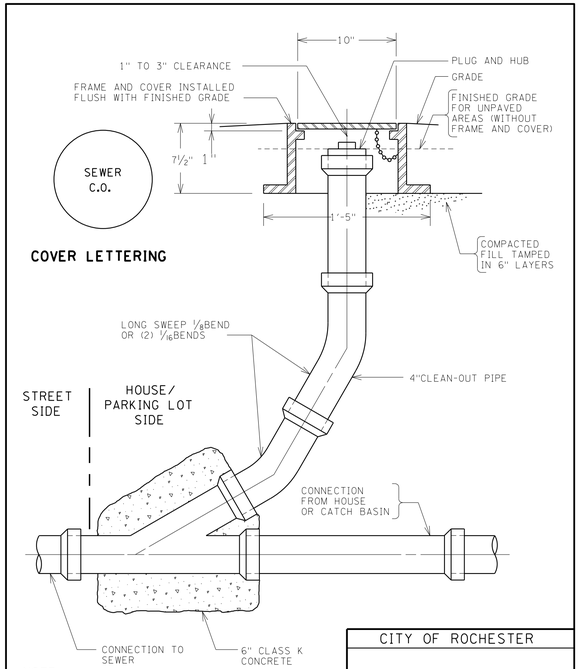
NOTE:

LIMITS FOR EXCAVATION AND BACKFILL ARE AS SHOWN ON STANDARD DRAWING R601-1 OR R601-2, OR ON THE CONTRACT DRAWINGS.

CITY OF ROCHESTER

LATERAL RISER PIPE CONNECTION

ISSUED	9-2-91	STD. DWG.
REVISED		NO. R601-5



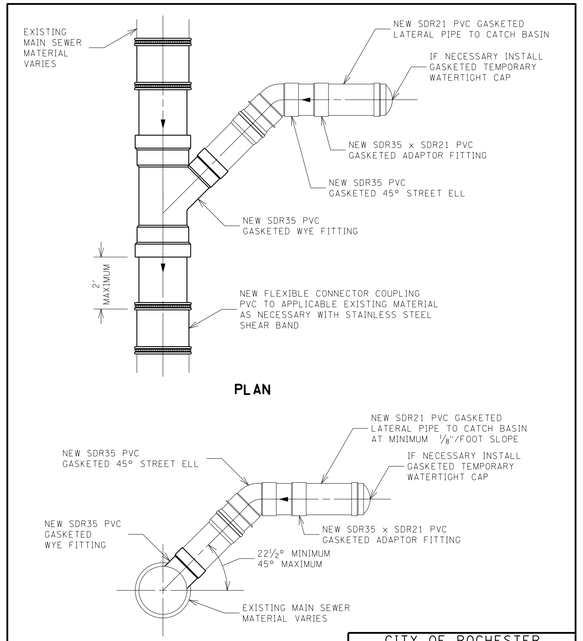
NOTE:

1. CLEAN-OUT SHALL BE INSTALLED EVERY 75' MAXIMUM AND AT RIGHT-OF-WAY LINE.
2. FRAME AND COVER TO BE USED IN PAVEMENT AREAS ONLY

CITY OF ROCHESTER

CLEAN-OUT

ISSUED	9-2-91	STD. DWG.
REVISED	1-4-96	NO. R601-6



NOTE:

ALL SEWER AND LATERAL PIPE AND FITTINGS ARE TO BE GASKETED TYPE. SOLVENT WELD JOINTS ARE NOT ALLOWED.

CITY OF ROCHESTER

PVC WYE CONNECTION TO EXISTING SEWER

ISSUED	10-18-02	NON-STANDARD
REVISED	7-31-12	DWG.NO.S601-7

ALL CITY OF ROCHESTER CONSTRUCTION DETAILS APPEAR ON THESE SHEETS IN THEIR COMPLETE FORM. ANY AMENDMENTS THERE TO ARE SHOWN IN *BOLD ITALICS.*

REV	DESCRIPTION	DATE	BY
7			
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CITY OF ROCHESTER, MONROE COUNTY, NEW YORK

TITLE OF DRAWING
DRAINAGE DETAILS

DRAWING NO.
DD-01

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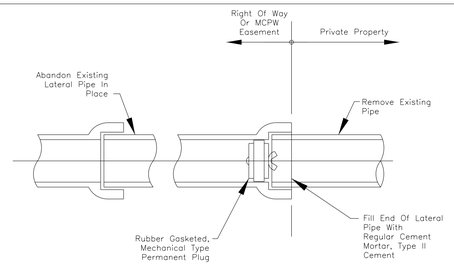
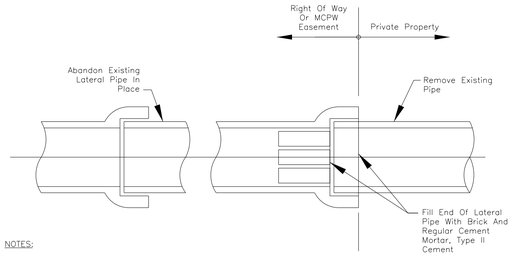


LATERAL ABANDONMENT FOR PIPE
DIAMETER OF 6" OR LESS



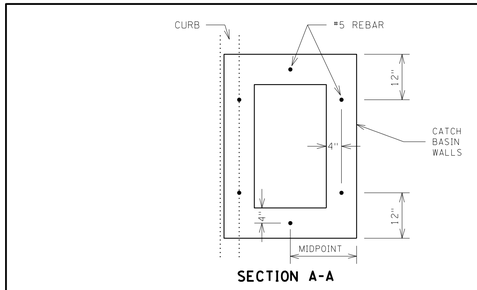
NOTES:

1. Lateral Abandonment must be witnessed by a representative of the District. Notify Pure Waters a minimum of 48 hours in advance of construction for inspection of the lateral abandonment. Telephone (585) 760-7600, Option 5.
2. Brick for plug: ASTM C-32, Grade SS.

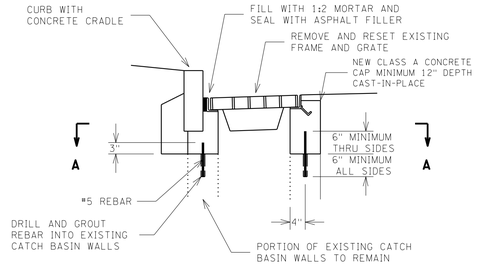
LATERAL ABANDONMENT FOR PIPE
DIAMETER GREATER THAN 6"

TO BE INCLUDED IN ITEM 604.13000011

MONROE COUNTY PURE WATERS		
Feb 2005	LATERAL ABANDONMENT DETAIL	FIGURE 5.01



SECTION A-A

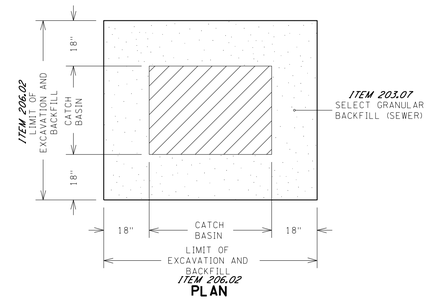


PLAN

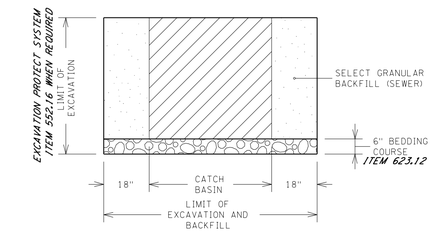
NOTES:

1. SCARIFY AND/OR REMOVE TOP PORTION OF EXISTING WALLS TO SUFFICIENT DEPTH TO ACCOMMODATE NEW CAP.
2. USE CONCRETE OR BRICK AND MORTAR TO ADJUST TOP OF WALLS TO SET FRAME AND GRATE TO FINISHED GRADE AND ON SOUND BEARING.
3. COAT INTERIOR AREA OF CATCH BASIN WITH 2 COATS OF ~~TAMMS BITUMINOTE 500, OR APPROVED EQUIVALENT~~ *EPOXY BASED MAINTENANCE COATING SYSTEM APPROVED FOR THIS APPLICATION*
4. COAT EXPOSED EXTERIOR AREA OF NEW CONCRETE CONSTRUCTION WITH 2 COATS OF ~~#1 BUILD BITUMINOUS COATING 35 I 10, KOPPERS BITMASTIC SUPER SERVICE BLACK, OR APPROVED EQUIVALENT.~~ *TAR BASE PITCH*
5. *ADJUSTING EXISTING CATCH BASIN TO FINISHED GRADE TO BE PAID UNDER ITEM 604.070402*

CITY OF ROCHESTER		
CATCH BASIN FRAME AND GRATE ADJUSTMENT		
ISSUED 10-18-02	NON-STANDARD	
REVISED 12-31-07	DWG.NO.S604-7	



PLAN

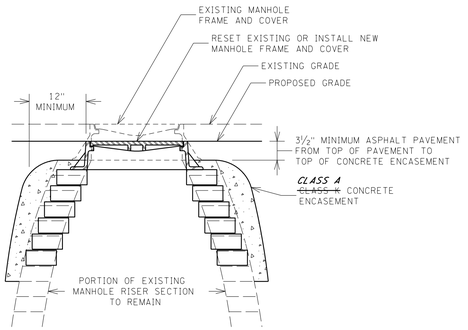


ELEVATION

NOTES:

1. LIMITS SHOWN ARE MAXIMUM ALLOWED AND MINIMUM REQUIRED FOR EXCAVATION AND BACKFILL.
2. UPPER PAY LIMIT FOR TRENCH EXCAVATION IS TOP OF EXISTING SURFACE AT TIME OF EXCAVATION. *ITEM 206.02*
3. UPPER PAY LIMIT FOR SELECT GRANULAR BACKFILL (SEWER) IS BOTTOM OF TEMPORARY PAVEMENT (IF USED) OR TOP OF SURFACE - AS REQUIRED IN CONTRACT DOCUMENTS. *ITEM 203.07*

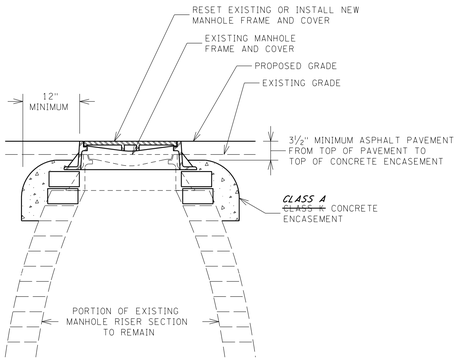
CITY OF ROCHESTER		
TRENCH AND BACKFILL LIMIT LINES FOR CATCH BASINS		
ISSUED 10-18-02	NON-STANDARD	
REVISED 7-31-12	DWG.NO.S604-10	



NOTES:

1. APPROPRIATE MEASURES ARE TO BE TAKEN TO PREVENT SURFACE WATER, GROUND WATER, MUD AND FOREIGN MATERIAL FROM ENTERING SEWER SYSTEM DURING CONSTRUCTION.
2. REMOVE PORTION OF EXISTING SEWER MANHOLE RISER AS NECESSARY TO RETROFIT FRAME AND COVER TO REQUIRED FINISHED ELEVATION AND ON SOUND BEARING. FOR ADJUSTMENT USE NEW CONCRETE ADJUSTMENT RING SET ON ½INCH MORTAR BED, OR BRICK/BLOCK AND MORTAR.
3. ALL COURSES ARE TO BE COATED WITH 1 COAT OF ~~TAMMS DURALKOTE 500, OR APPROVED EQUIVALENT.~~ *EPOXY LINER DESIGNED FOR PROTECTION AGAINST CHEMICAL ATTACK TO MANHOLES*
4. LOWER LIMIT OF ~~CLASS K~~ CONCRETE ENCASEMENT IS TO BE BELOW LOWEST PORTION OF LEVELING COURSE.
5. ALL NEW BRICK IS TO BE 8000 PSI RED SEWER BRICK.
6. *ADJUSTING EXISTING MANHOLE TO FINISHED GRADE TO BE PAID UNDER ITEM 604.070401*

CITY OF ROCHESTER		
SEWER MANHOLE FRAME AND COVER LOWERING GRADE		
ISSUED 10-18-02	NON-STANDARD	
REVISED 7-31-12	DWG.NO.S604-11	

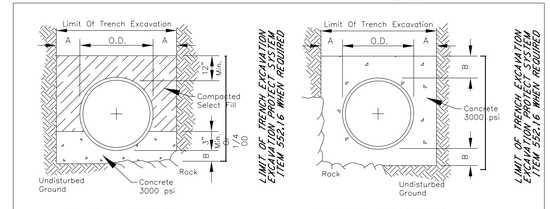


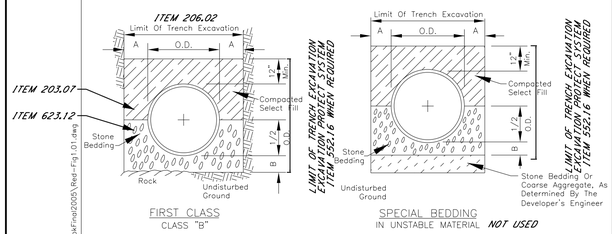
NOTES:

1. APPROPRIATE MEASURES ARE TO BE TAKEN TO PREVENT SURFACE WATER, GROUND WATER, MUD AND FOREIGN MATERIAL FROM ENTERING SEWER SYSTEM DURING CONSTRUCTION.
2. REMOVE PORTION OF EXISTING SEWER MANHOLE RISER AS NECESSARY TO RETROFIT FRAME AND COVER TO REQUIRED FINISHED ELEVATION AND ON SOUND BEARING. FOR ADJUSTMENT USE NEW CONCRETE ADJUSTMENT RING SET ON ½INCH MORTAR BED, OR BRICK/BLOCK AND MORTAR.
3. ALL COURSES ARE TO BE COATED WITH 1 COAT OF ~~TAMMS DURALKOTE 500, OR APPROVED EQUIVALENT.~~ *EPOXY LINER DESIGNED FOR PROTECTION AGAINST CHEMICAL ATTACK TO MANHOLES*
4. LOWER LIMIT OF ~~CLASS K~~ CONCRETE ENCASEMENT IS TO BE BELOW LOWEST PORTION OF LEVELING COURSE.
5. ALL NEW BRICK IS TO BE 8000 PSI RED SEWER BRICK.
6. *ADJUSTING EXISTING MANHOLE TO FINISHED GRADE TO BE PAID UNDER ITEM 604.070401*

CITY OF ROCHESTER		
SEWER MANHOLE FRAME AND COVER RAISING GRADE		
ISSUED 10-18-02	NON-STANDARD	
REVISED 7-31-12	DWG.NO.S604-12	

3-28-11





PIPE DIA.	DIM. A	DIM. B
UP TO 18"	1.0'	6"
21" TO 36"	1.5'	9"
OVER 36"	1.5'	12"

NOTES:

1. Trench backfill shall be as required by the highway owner.
2. Select fill shall be sand, gravel, and similar material which shall be free from clay, loam, organic material, debris, frozen material and shall contain only small amounts of stone, pebbles, or lumps over one inch in greatest dimension, but none over two inches in greatest dimension.
3. Stone bedding shall mean approved imported aggregate meeting the requirements of the New York State Department of Transportation, Standard Specification, "Crushed Stone", primary size 1 or a mixture of primary size 1 and 2, washed.
4. Coarse aggregate shall mean approved imported aggregate meeting the requirements of the New York State Department of Transportation, Standard Specification, "Crushed Stone", primary size 3 or a mixture of primary size 3 and 4.
5. This Figure 1.01 applies to Pure Waters sanitary, storm, and combined mainline sewers and lateral pipe installations, as well as forcemains.

MONROE COUNTY PURE WATERS		
Feb 2005	BEDDING DETAILS	FIGURE 1.01

ALL CITY OF ROCHESTER CONSTRUCTION DETAILS APPEAR ON THESE SHEETS IN THEIR COMPLETE FORM. ANY AMENDMENTS THERE TO ARE SHOWN IN *BOLD ITALICS.*

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FA PROJECT NO. 121033
PROJECT MANAGER R. BENNETT
DRAWN BY T. DAVIS
SCALE AS SHOWN
ISSUE DATE JULY 2014

STATE OF NEW YORK · CHARLES · FISHER · 084070 · LICENSED PROFESSIONAL ENGINEER

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135 Calkins Road, Rochester, NY 14623
Phone 585/334-3310

PROJECT
CENTER CITY TWO-WAY CONVERSION
SAINT PAUL STREET AND NORTH CLINTON AVENUE
BETWEEN EAST MAIN STREET AND CUMBERLAND STREET
PIN:13102
CITY OF ROCHESTER, MONROE COUNTY, NEW YORK

TITLE OF DRAWING
DRAINAGE DETAILS

DRAWING NO.
DD-02

SHEET 35 OF 69

Final 02-15-2005

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Time Printed: Tues Feb 15 08:45 2005 Filename: RedBookFinal2005\Red-Fig1.01.dwg

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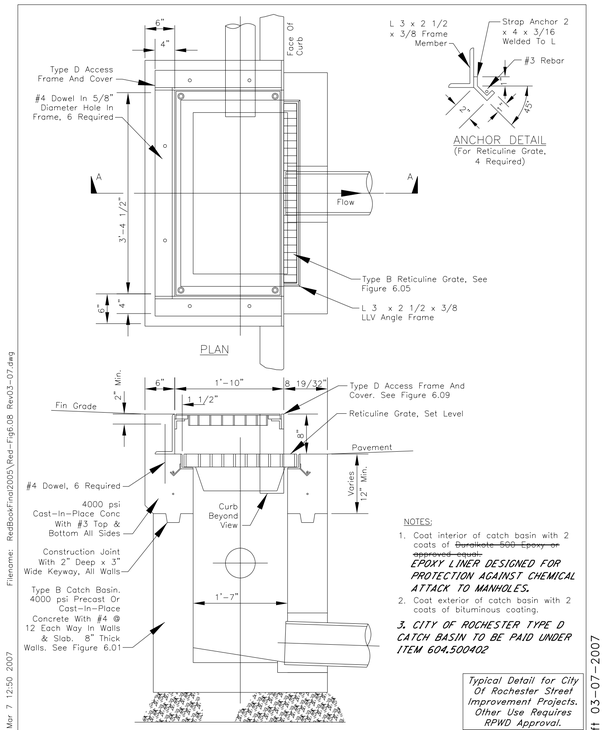


NOTES:

1. Coat interior of catch basin with 2 coats of ~~Duralkote 500 Epoxy or approved equal.~~ *EPOXY LINER DESIGNED FOR PROTECTION AGAINST CHEMICAL ATTACK TO MANHOLES.*
2. Coat exterior of catch basin with 2 coats of bituminous coating.

3. CITY OF ROCHESTER TYPE D CATCH BASIN TO BE PAID UNDER ITEM 604.500402

Typical Detail for City Of Rochester Street Improvement Projects. Other Use Requires RPWO Approval.

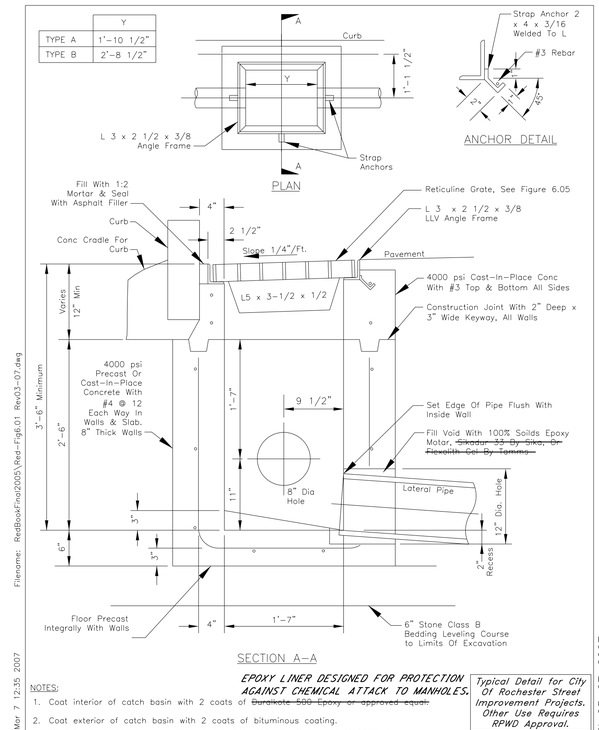
Former City of Rochester Std. Dwg. No. R604-6

Filename: RedBookFinal2005\Red-Fig6.08 Rev03-07.dwg
Time Printed: Wed Mar 7 12:50 2007

Draft 03-07-2007

MONROE COUNTY PURE WATERS

MARCH 2007	TYPE D CATCH BASIN	FIGURE 6.08



EPOXY LINER DESIGNED FOR PROTECTION AGAINST CHEMICAL ATTACK TO MANHOLES.

NOTES:

1. Coat interior of catch basin with 2 coats of ~~Duralkote 500 Epoxy or approved equal.~~
2. Coat exterior of catch basin with 2 coats of bituminous coating.

3. CITY OF ROCHESTER TYPE B CATCH BASIN TO BE PAID UNDER ITEM 604.500401

Typical Detail for City Of Rochester Street Improvement Projects. Other Use Requires RPWO Approval.

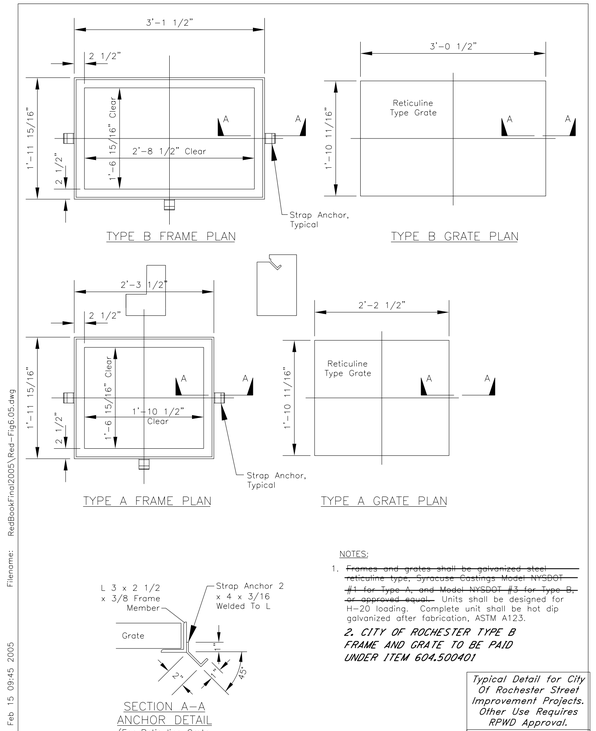
Former City of Rochester Std. Dwg. No. R604-2

Filename: RedBookFinal2005\Red-Fig6.01 Rev03-07.dwg
Time Printed: Wed Mar 7 12:35 2007

Draft 03-07-2007

MONROE COUNTY PURE WATERS

MARCH 2007	TYPE A & B CATCH BASIN	FIGURE 6.01



NOTES:

1. ~~Frames and grates shall be galvanized steel reticuline type, Syracuse Castings Model NYSDOT #1 for Type A, and Model NYSDOT #3 for Type B, or approved equal.~~ Units shall be designed for H-20 loading. Complete unit shall be hot dip galvanized after fabrication, ASTM A123.

2. CITY OF ROCHESTER TYPE B FRAME AND GRATE TO BE PAID UNDER ITEM 604.500401

Typical Detail for City Of Rochester Street Improvement Projects. Other Use Requires RPWO Approval.

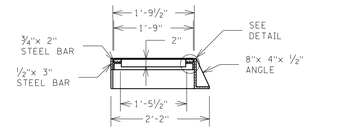
Former City of Rochester Std. Dwg. No. R655-1

Filename: RedBookFinal2005\Red-Fig6.05.dwg
Time Printed: Tues Feb 15 09:45 2005

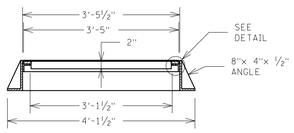
Final 02-15-205

MONROE COUNTY PURE WATERS

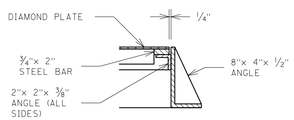
Feb 2005	TYPE A & B CATCH BASIN FRAME AND GRATE	FIGURE 6.05



SECTION A-A



SECTION B-B

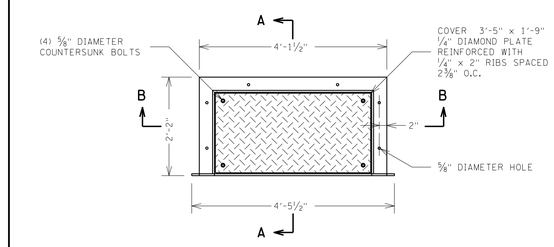


DETAIL

NOTE:

SEE NON-STANDARD DWG S655-4 FOR PLAN AND FRONT VIEWS

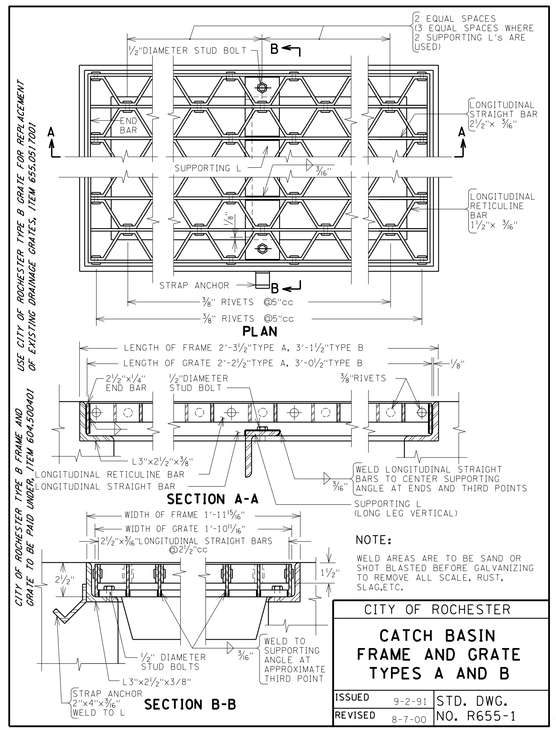
CITY OF ROCHESTER	
CATCH BASIN TYPE D FRAME AND COVER SECTIONS	
ISSUED 12-4-97	NON-STANDARD DWG.NO.S655-5
REVISED 8-2-05	



NOTES:

1. MATERIAL IS TO BE HOT ROLLED STEEL PER ASTM A-36.
2. AFTER FABRICATION, COMPLETE UNIT IS TO BE HOT DIP GALVANIZED PER ASTM 123.
3. DIAMOND PLATE IS TO BE BOLTED TO FRAME WITH (4) ⅝INCH DIAMETER COUNTERSUNK BOLTS.
4. SEE NON-STANDARD DWG S655-5 FOR SECTIONS A-A AND B-B.

CITY OF ROCHESTER	
CATCH BASIN TYPE D FRAME AND COVER	
ISSUED 12-4-97	NON-STANDARD DWG.NO.S655-4
REVISED 8-2-05	



CITY OF ROCHESTER	
CATCH BASIN FRAME AND GRATE TYPES A AND B	
ISSUED 9-2-91	STD. DWG. NO. R655-1
REVISED 8-7-00	

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PROJECT MANAGER R. BENNETT
DRAWN BY T. DAVIS
SCALE AS SHOWN
ISSUE DATE JULY 2014

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SAINT PAUL STREET AND NORTH CLINTON AVENUE
BETWEEN EAST MAIN STREET AND CUMBERLAND STREET
PIN:13102
CITY OF ROCHESTER, MONROE COUNTY, NEW YORK

TITLE OF DRAWING
DRAINAGE DETAILS

DRAWING NO.
DD-03

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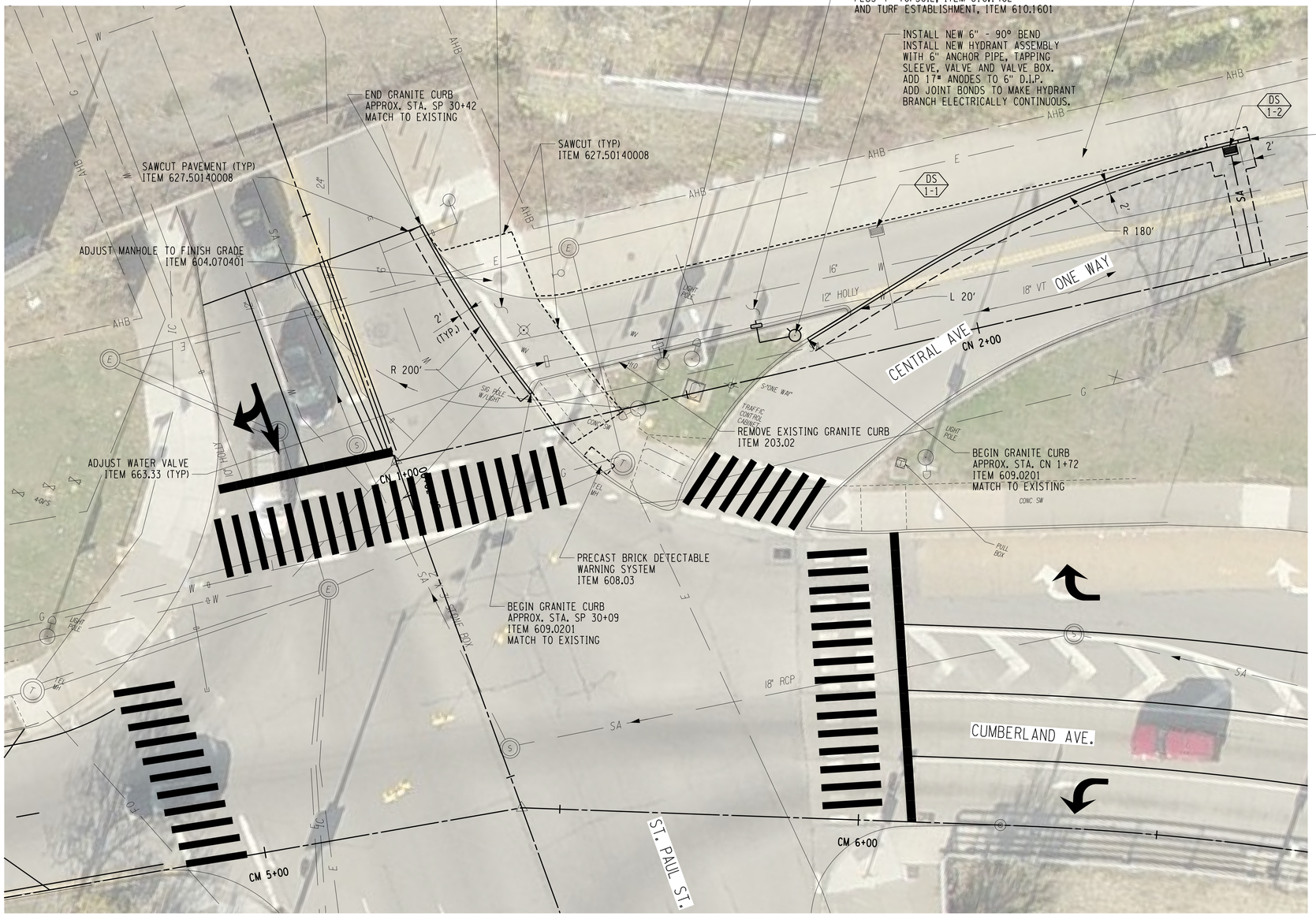

SEE PL-5 FOR ADDITIONAL INFORMATION

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FA PROJECT NO.
121033
PROJECT MANAGER
R. BENNETT
DRAWN BY
T. DAVIS
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STATE OF NEW YORK
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CENTER CITY TWO-WAY CONVERSION
SAINT PAUL STREET AND NORTH CLINTON AVENUE
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PIN:13102
CITY OF ROCHESTER, MONROE COUNTY, NEW YORK

TITLE OF DRAWING
GRADING PLAN

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GP-01

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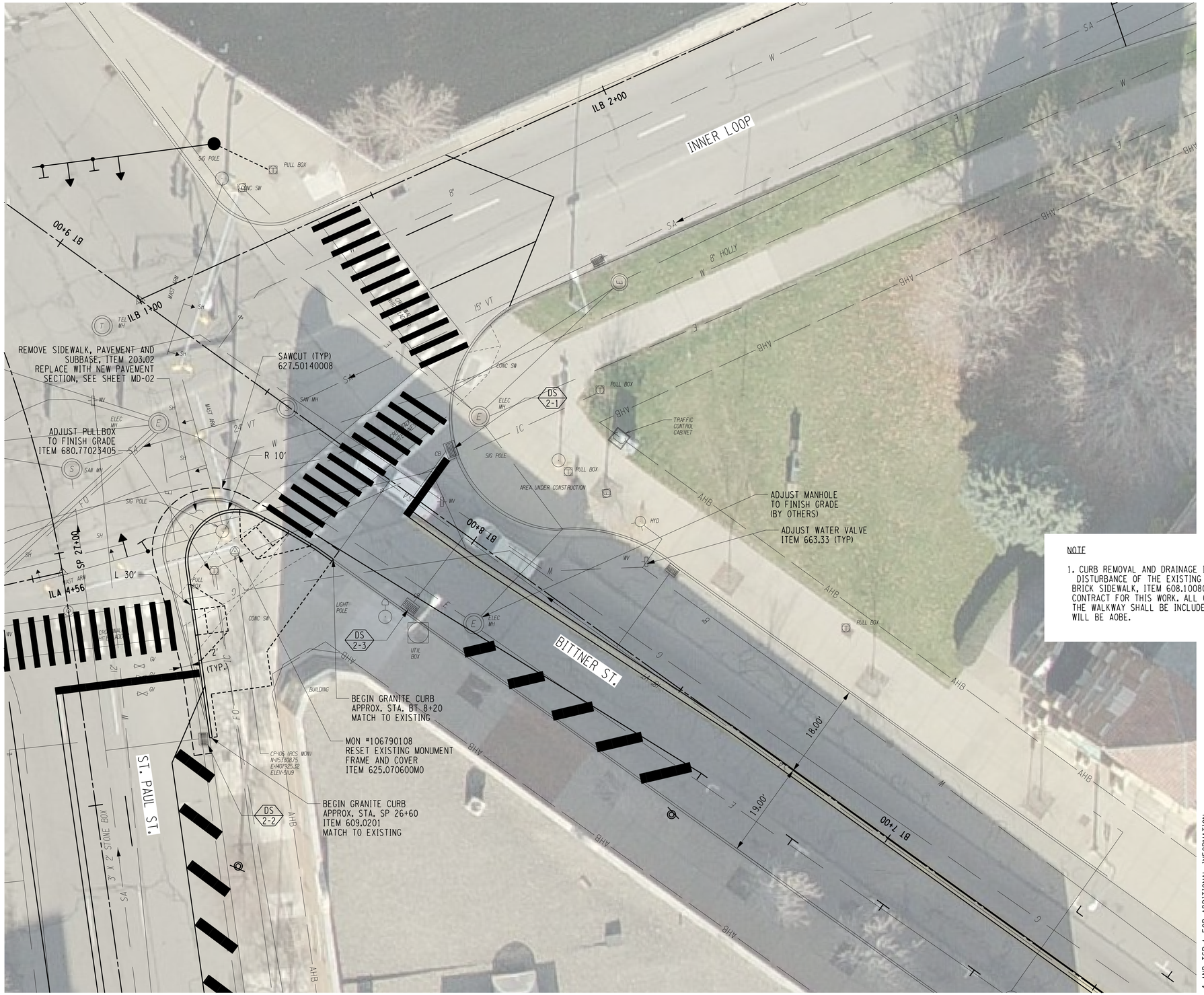

NOTE

1. CURB REMOVAL AND DRAINAGE INSTALLATION WILL REQUIRE PARTIAL DISTURBANCE OF THE EXISTING BRICK WALK. 40 SF OF RESETTING BRICK SIDEWALK, ITEM 608.10080008, HAS BEEN INCLUDED IN THE CONTRACT FOR THIS WORK. ALL COSTS ASSOCIATED WITH RESETTING THE WALKWAY SHALL BE INCLUDED IN THIS COST AND THE WORK LIMITS WILL BE AOBE.

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T. DAVIS

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JULY 2014

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PROJECT
CENTER CITY TWO-WAY CONVERSION
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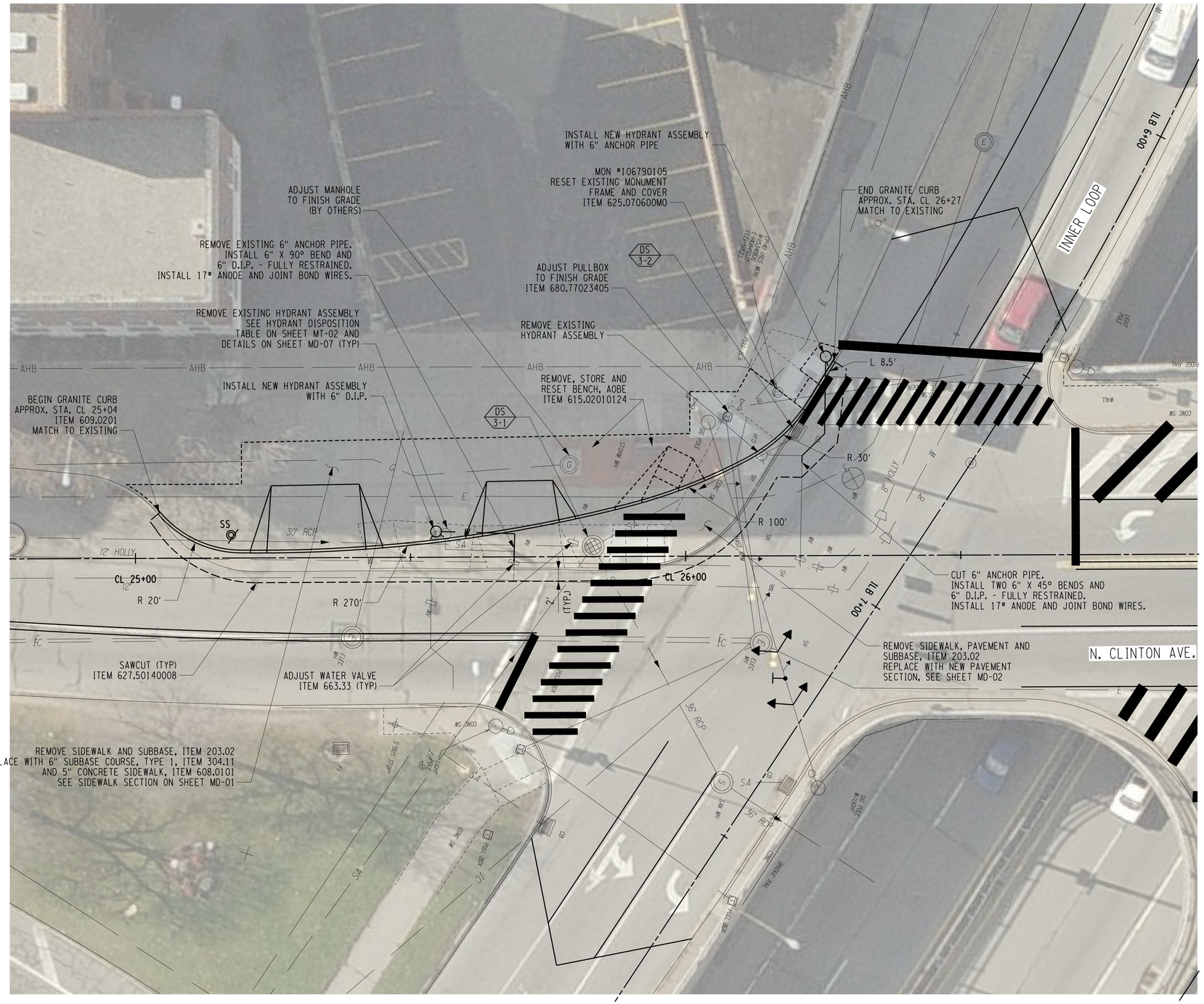

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FA PROJECT NO. 121033
PROJECT MANAGER R. BENNETT
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SCALE AS SHOWN
ISSUE DATE JULY 2014

STEPHEN CHARLES BENNETT 084070 LICENSED PROFESSIONAL ENGINEER STATE OF NEW YORK

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135 Calkins Road, Rochester, NY 14623
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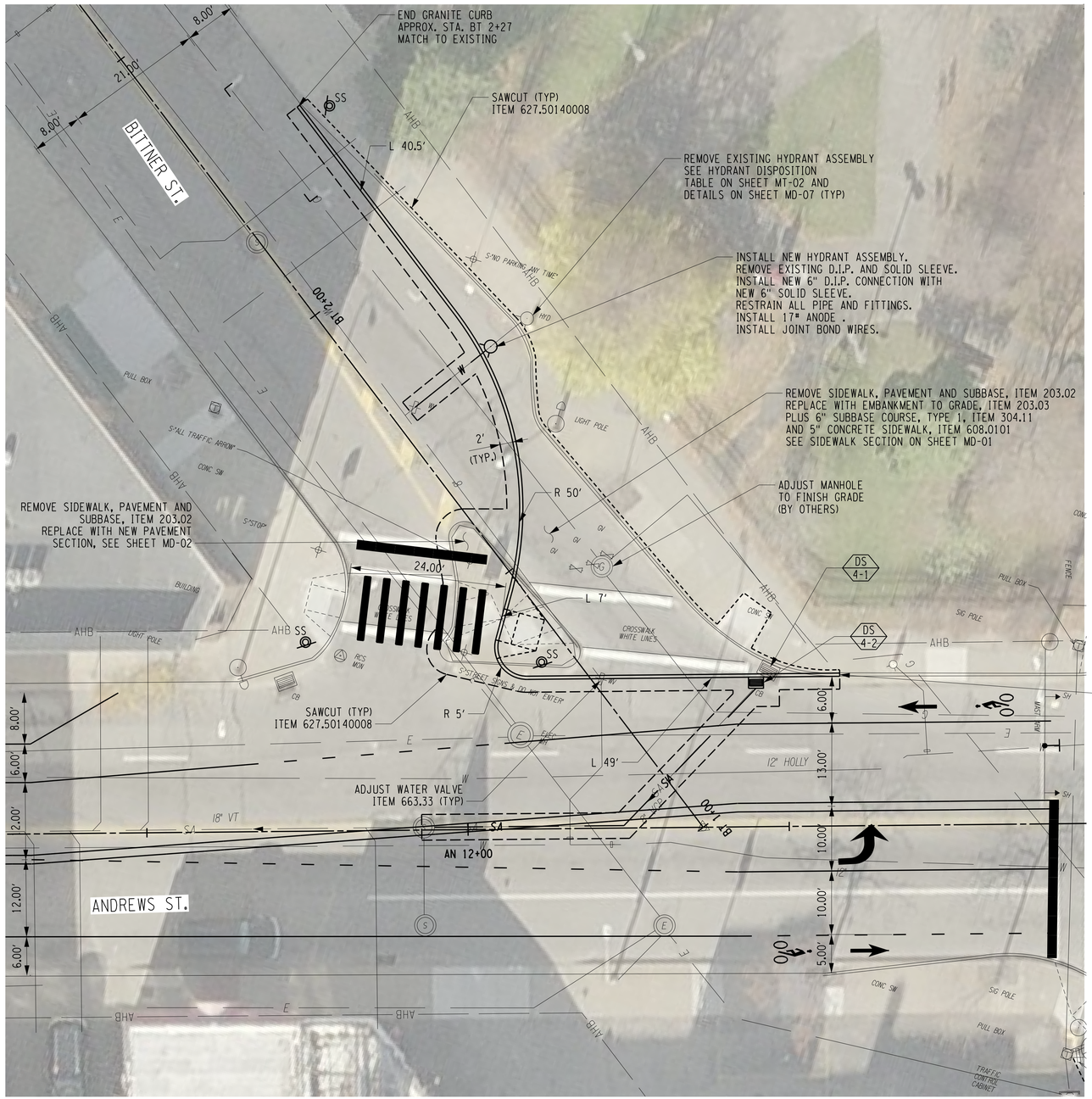
PROJECT
CENTER CITY TWO-WAY CONVERSION
SAINT PAUL STREET AND NORTH CLINTON AVENUE
BETWEEN EAST MAIN STREET AND CUMBERLAND STREET
PIN:13102
CITY OF ROCHESTER, MONROE COUNTY, NEW YORK

TITLE OF DRAWING
GRADING PLAN

DRAWING NO.
GP-03



SEE PL-13 FOR ADDITIONAL INFORMATION

GRID NORTH

SCALE (FT)
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If an item bearing the seal of an engineer or land surveyor is altered, the altering engineer or land surveyor shall affix to the item his/her seal and the notation "altered by" followed by his/her signature and the date of such alteration, and a specific description of the alteration.

FA PROJECT NO.
121033

PROJECT MANAGER
R. BENNETT

DRAWN BY
T. DAVIS

SCALE
AS SHOWN

ISSUE DATE
JULY 2014

STATE OF NEW YORK
REGISTERED
CHARLES BENNETT
084070
PROFESSIONAL ENGINEER

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PROJECT
CENTER CITY TWO-WAY CONVERSION
SAINT PAUL STREET AND NORTH CLINTON AVENUE
BETWEEN EAST MAIN STREET AND CUMBERLAND STREET
PIN:13102
CITY OF ROCHESTER, MONROE COUNTY, NEW YORK

TITLE OF DRAWING
GRADING PLAN

DRAWING NO.
GP-04

SHEET 40 OF 69

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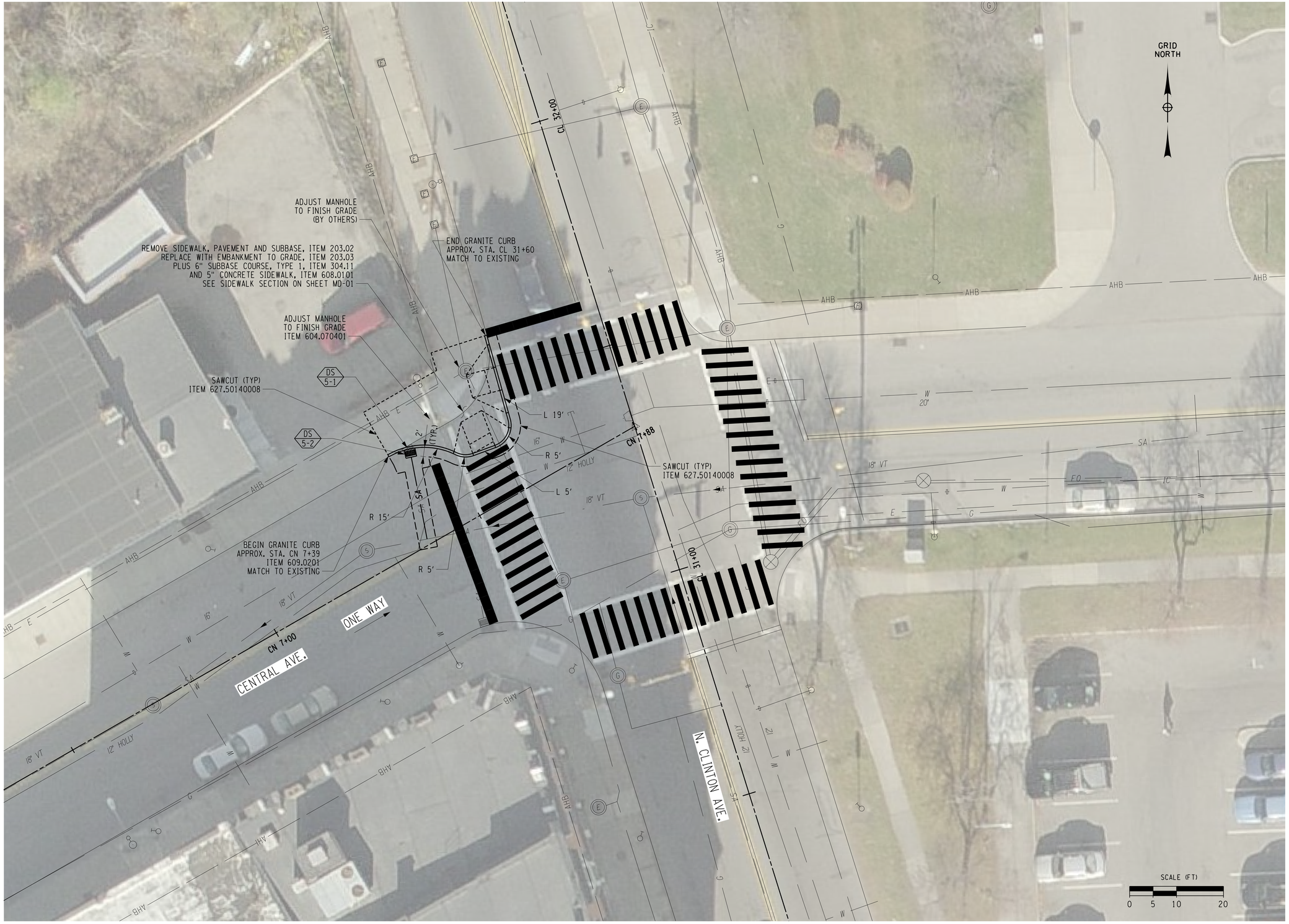

SEE PL-15 FOR ADDITIONAL INFORMATION

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121033

PROJECT MANAGER
R. BENNETT

DRAWN BY
T. DAVIS

SCALE
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ISSUE DATE
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SAINT PAUL STREET AND NORTH CLINTON AVENUE
BETWEEN EAST MAIN STREET AND CUMBERLAND STREET
PIN:13102
CITY OF ROCHESTER, MONROE COUNTY, NEW YORK

TITLE OF DRAWING
GRADING PLAN

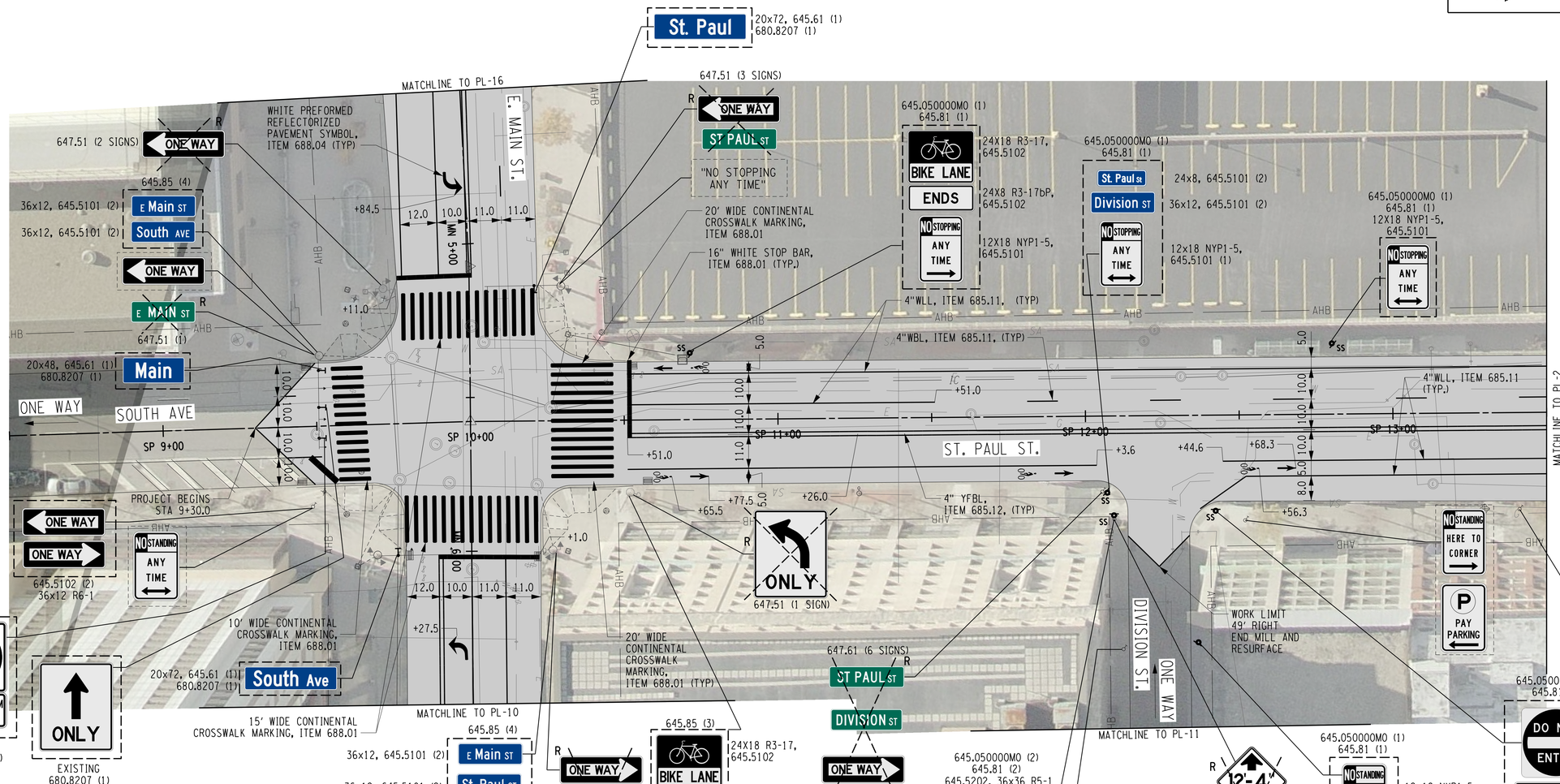
DRAWING NO.
GP-05

GRID NORTH

STRIPE TYPES
W=WHITE
Y=YELLOW
LL=LANE LINE
EL=EDGE LINE
DL=DOTTED LINE
BL=BROKEN LINE
FBL=FULL BARRIER LINE
HL=HATCH LINE

LEGEND

- NO STOPPING ANY TIME ↔ — TO REMAIN
- NO STOPPING ANY TIME ↔ — RGRTA SIGN SEE NOTE 2
- NO STOPPING ANY TIME ↔ — NEW SIGN
- NO STOPPING ANY TIME ↔ R — ELIMINATE SIGN
- SS — NEW SIGN POST SLEEVE



NOTES:

1. ALL PAVEMENT MARKINGS SHALL BE INSTALLED PER THE LATEST NYSDOT STANDARD SHEETS. SEE DWG. MD-05 FOR CONTINENTAL CROSSWALK MARKING DETAILS.
2. BUS STOP SIGNS ARE THE PROPERTY OF RGRTA AND SHALL ONLY BE REMOVED OR RELOCATED BY THEM. CONTRACTOR TO COORDINATE WORK AFFECTING BUS SIGNS WITH RGRTA.
3. FOR SIGNAL MODIFICATION WORK ITEMS AT E. MAIN ST./ST. PAUL ST SEE DWG. TSP-11.
4. DIVISION STREET IS TO BE MODIFIED TO ONE WAY WESTBOUND.
5. ALL GROUND MOUNTED SIGNS SHALL USE 3M HIP SHEETING, ASTM TYPE III. ALL OVERHEAD SIGNS SHALL BE ASTM TYPE IX.
6. ALL STREET NAME SIGNS SHALL BE BLUE WITH WHITE LETTERING.

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FA PROJECT NO. 121033
PROJECT MANAGER R. BENNETT
DRAWN BY
ISSUE DATE AS SHOWN JULY 2014

STATE OF NEW YORK — REGORY CHARLES BENNETT — 084070 — REGISTERED PROFESSIONAL ENGINEER

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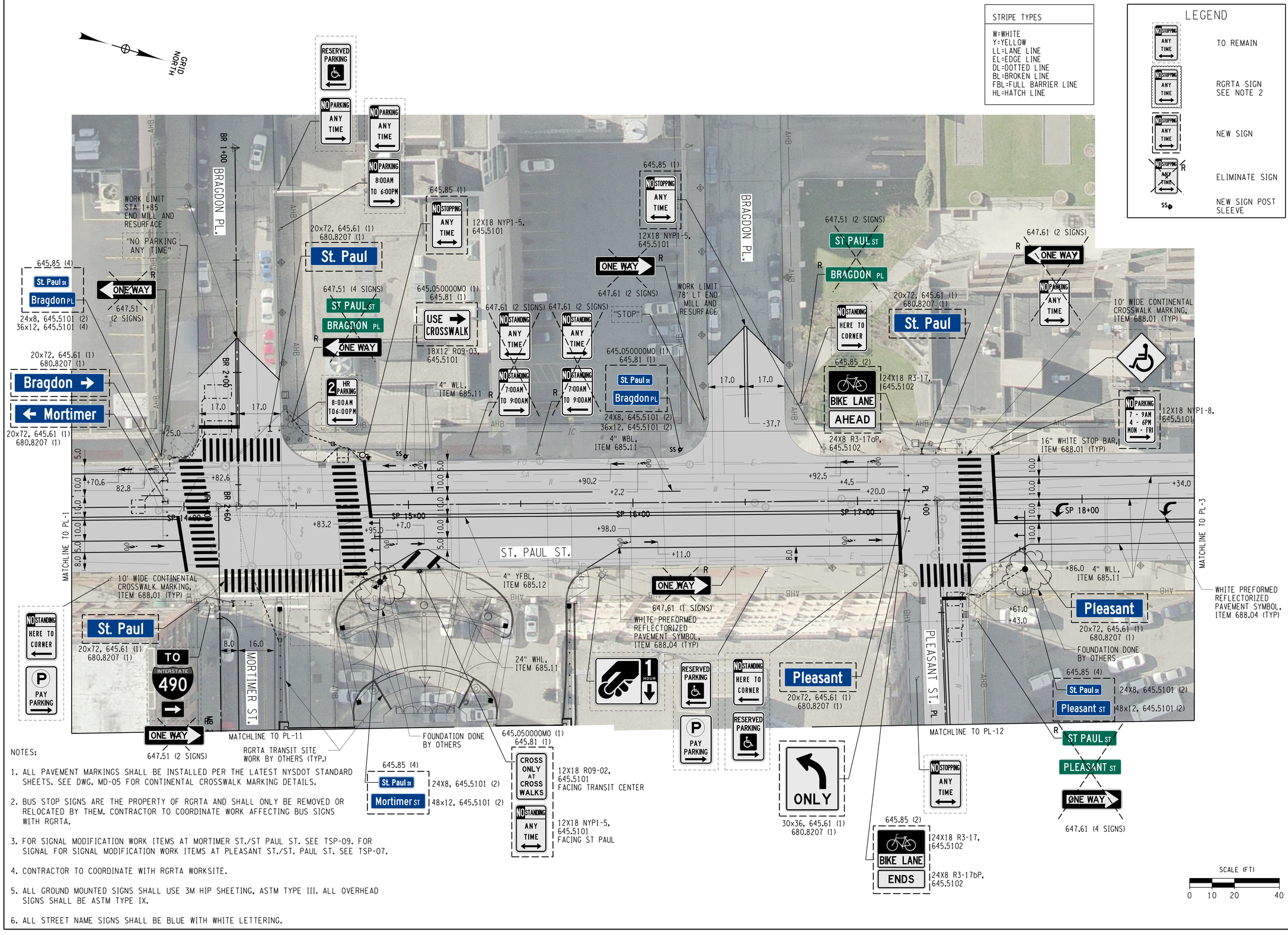
PROJECT
CENTER CITY TWO-WAY CONVERSION
SAINT PAUL STREET AND NORTH CLINTON AVENUE
BETWEEN EAST MAIN STREET AND CUMBERLAND STREET
PIN:13102
CITY OF ROCHESTER, MONROE COUNTY, NEW YORK

TITLE OF DRAWING
HIGHWAY PLAN

DRAWING NO.
PL-01



NOTES:

1. ALL PAVEMENT MARKINGS SHALL BE INSTALLED PER THE LATEST NYSDOT STANDARD SHEETS. SEE DWG. MD-05 FOR CONTINENTAL CROSSWALK MARKING DETAILS.
2. BUS STOP SIGNS ARE THE PROPERTY OF RGRTA AND SHALL ONLY BE REMOVED OR RELOCATED BY THEM. CONTRACTOR TO COORDINATE WORK AFFECTING BUS SIGNS WITH RGRTA.
3. FOR SIGNAL MODIFICATION WORK ITEMS AT MORTIMER ST./ST PAUL ST. SEE TSP-09. FOR SIGNAL FOR SIGNAL MODIFICATION WORK ITEMS AT PLEASANT ST./ST. PAUL ST. SEE TSP-07.
4. CONTRACTOR TO COORDINATE WITH RGRTA WORKSITE.
5. ALL GROUND MOUNTED SIGNS SHALL USE 3M HIP SHEETING, ASTM TYPE III. ALL OVERHEAD SIGNS SHALL BE ASTM TYPE IX.
6. ALL STREET NAME SIGNS SHALL BE BLUE WITH WHITE LETTERING.

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FA PROJECT NO.
121033
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R. BENNETT
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CENTER CITY TWO-WAY CONVERSION
SAINT PAUL STREET AND NORTH CLINTON AVENUE
BETWEEN EAST MAIN STREET AND CUMBERLAND STREET
PIN:13102
CITY OF ROCHESTER, MONROE COUNTY, NEW YORK

TITLE OF DRAWING
HIGHWAY PLAN

DRAWING NO.
PL-02

SHEET 43 OF 69

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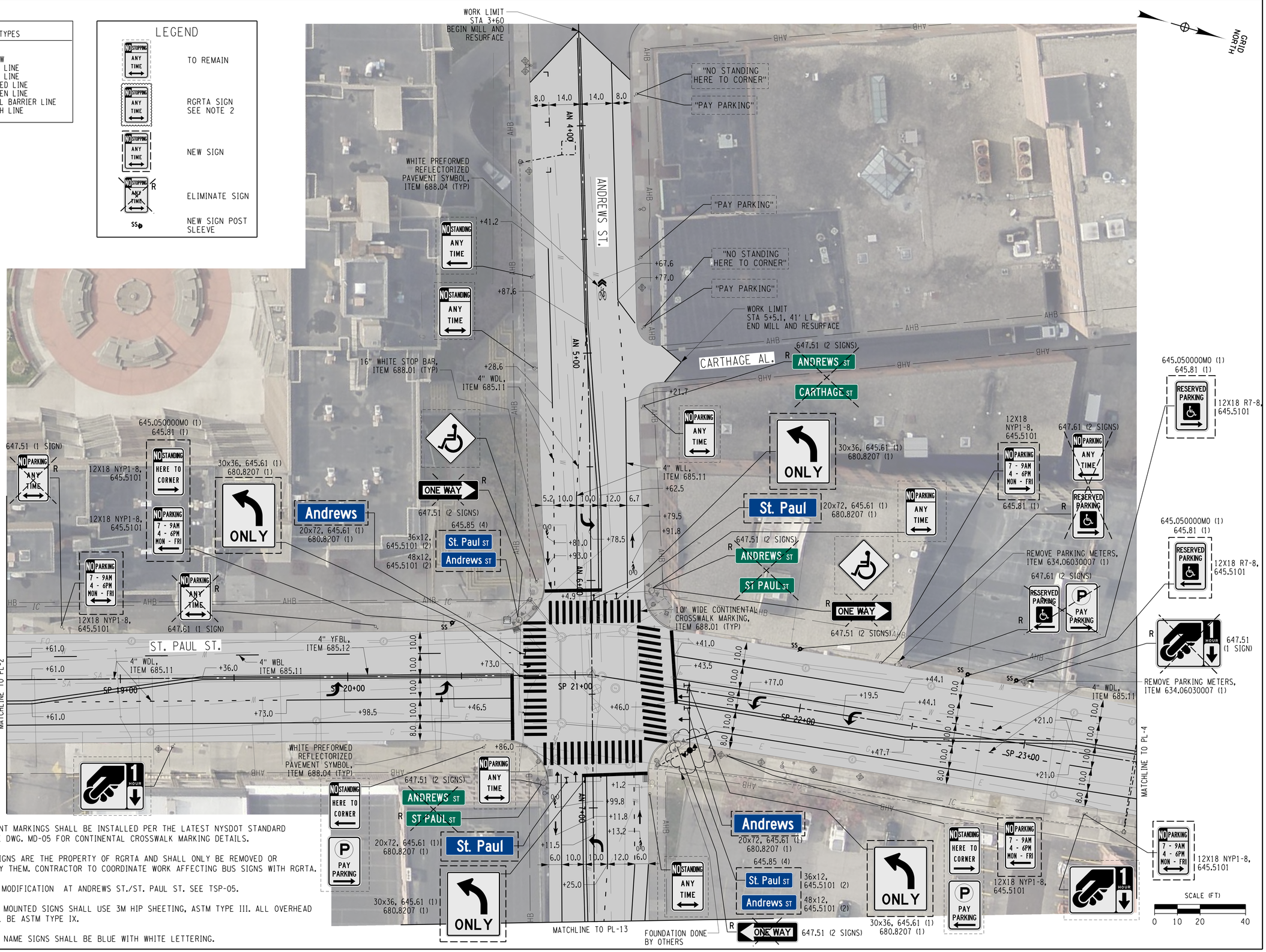
STRIPE TYPES
W=WHITE
Y=YELLOW
LL=LANE LINE
EL=EDGE LINE
DL=DOTTED LINE
BL=BROKEN LINE
FBL=FULL BARRIER LINE
HL=HATCH LINE

LEGEND

- TO REMAIN
- RGRTA SIGN SEE NOTE 2
- NEW SIGN
- ELIMINATE SIGN
- NEW SIGN POST SLEEVE



NOTES:

1. ALL PAVEMENT MARKINGS SHALL BE INSTALLED PER THE LATEST NYSDOT STANDARD SHEETS. SEE DWG. MD-05 FOR CONTINENTAL CROSSWALK MARKING DETAILS.
2. BUS STOP SIGNS ARE THE PROPERTY OF RGRTA AND SHALL ONLY BE REMOVED OR RELOCATEDBY THEM. CONTRACTOR TO COORDINATE WORK AFFECTING BUS SIGNS WITH RGRTA.
3. FOR SIGNAL MODIFICATION AT ANDREWS ST./ST. PAUL ST. SEE TSP-05.
4. ALL GROUND MOUNTED SIGNS SHALL USE 3M HIP SHEETING, ASTM TYPE III. ALL OVERHEAD SIGNS SHALL BE ASTM TYPE IX.
5. ALL STREET NAME SIGNS SHALL BE BLUE WITH WHITE LETTERING.

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FA PROJECT NO. 121033
PROJECT MANAGER R. BENNETT
DRAWN BY
SCALE AS SHOWN
ISSUE DATE JULY 2014

REGISTERED PROFESSIONAL ENGINEER CHARLES RENNETT STATE OF NEW YORK 084070 CHARLES RENNETT

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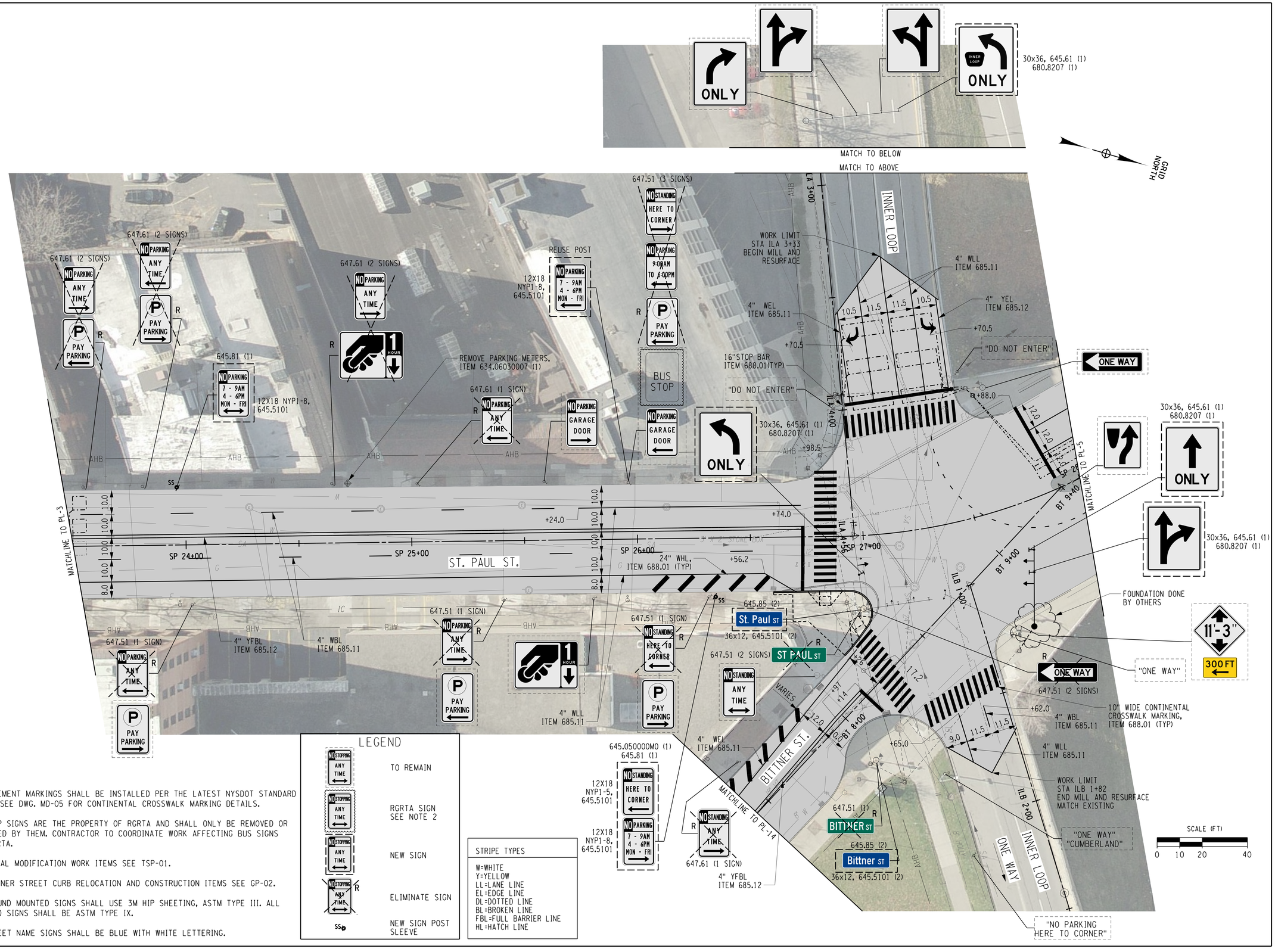
PROJECT
CENTER CITY TWO-WAY CONVERSION
SAINT PAUL STREET AND NORTH CLINTON AVENUE
BETWEEN EAST MAIN STREET AND CUMBERLAND STREET
PIN:13102
CITY OF ROCHESTER, MONROE COUNTY, NEW YORK

TITLE OF DRAWING
HIGHWAY PLAN

DRAWING NO.
PL-03



LEGEND

NO STOPPING ANY TIME	TO REMAIN
NO STOPPING ANY TIME	RGRTA SIGN SEE NOTE 2
NO STOPPING ANY TIME	NEW SIGN
NO STOPPING ANY TIME R	ELIMINATE SIGN
SS	NEW SIGN POST SLEEVE

STRIPE TYPES

W=WHITE
Y=YELLOW
LL=LANE LINE
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NOTES:

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2. BUS STOP SIGNS ARE THE PROPERTY OF RGRTA AND SHALL ONLY BE REMOVED OR RELOCATED BY THEM. CONTRACTOR TO COORDINATE WORK AFFECTING BUS SIGNS WITH RGRTA.
3. FOR SIGNAL MODIFICATION WORK ITEMS SEE TSP-01.
4. FOR BITTNER STREET CURB RELOCATION AND CONSTRUCTION ITEMS SEE GP-02.
5. ALL GROUND MOUNTED SIGNS SHALL USE 3M HIP SHEETING, ASTM TYPE III. ALL OVERHEAD SIGNS SHALL BE ASTM TYPE IX.
6. ALL STREET NAME SIGNS SHALL BE BLUE WITH WHITE LETTERING.

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FA PROJECT NO.
121033

PROJECT MANAGER
R. BENNETT

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SCALE
AS SHOWN

ISSUE DATE
JULY 2014

STATE OF NEW YORK
CHARLES RENNIE
084070
REGISTERED PROFESSIONAL ENGINEER

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PROJECT
CENTER CITY TWO-WAY CONVERSION
SAINT PAUL STREET AND NORTH CLINTON AVENUE
BETWEEN EAST MAIN STREET AND CUMBERLAND STREET
PIN:13102
CITY OF ROCHESTER, MONROE COUNTY, NEW YORK

TITLE OF DRAWING
HIGHWAY PLAN

DRAWING NO.
PL-04

SHEET 45 OF 69

LEGEND

- TO REMAIN
- RGRTA SIGN SEE NOTE 2
- NEW SIGN
- ELIMINATE SIGN
- NEW SIGN POST SLEEVE

STRIPE TYPES
W=WHITE
Y=YELLOW
LL=LANE LINE
EL=EDGE LINE
DL=DOTTED LINE
BL=BROKEN LINE
FBL=FULL BARRIER LINE
HL=HATCH LINE

GRID NORTH

"SCHOOL BUS STOP AHEAD"

SP 30+38

DO NOT ENTER R
647.61 (1 SIGN)

11'-3"
CENTRAL AV
647.51 (1)

"ONE WAY"

"NO PARKING HERE TO CORNER"

"ONE WAY"

WORK LIMIT
STA CN 3+47
END MILL AND RESURFACE
MATCH EXISTING

CENTRAL AVE

CN 4+00

ONE WAY

CN 3+00

PROJECT ENDS
STA 30+41.7
END MILL AND RESURFACE

16" WHITE STOP BAR, ITEM 688.01 (TYP)

10' WIDE CONTINENTAL CROSSWALK MARKING, ITEM 688.01 (TYP)

"ONE WAY"

645.85 (2)

Cumberland ST | 48x12, 645.5101 (2)

CUMBERLAND ST R
647.51 (1)

"BIKE LANE"

"NO PARKING HERE TO CORNER"

"NO PARKING HERE TO CORNER"

"RIGHT LANE MUST TURN RIGHT"

ONE WAY

"YIELD"

4" WDL, ITEM 685.11

4" WBL ITEM 685.11

WORK LIMIT
STA 7+66.5
END MILL AND RESURFACE
MATCH EXISTING

PROJECT ENDS
STA CM 4+50.0
END MILL AND RESURFACE

4"WEL, ITEM 685.11

4"YEL, ITEM 685.12

ONE WAY

CM 5+00

CM 4+00

CM 3+00

STA. CM 3+00
END PAVEMENT
MARKINGS MATCH
EXISTING

16" WHITE STOP BAR, ITEM 688.01 (TYP)

CM 6+00

CM 7+00

CM 8+00

"LEFT LANE MUST TURN LEFT"

R ST PAUL ST
CUMBERLAND ST
647.51 (2 SIGNS)

"DO NOT ENTER"
"LEFT LANE MUST TURN LEFT"

CUMBERLAND ST.

RETAIN CONCRETE MEDIAN

"ONE WAY"

645.85 (4)

St. Paul ST | 36x12, 645.5101 (2)

Cumberland ST | 48x12, 645.5101 (2)

DO NOT ENTER

ST. PAUL ST.

INNER LOOP

RIGHT LANE MUST TURN RIGHT | 30x30 R3-7, 645.5202 (1)

Central AVE | 36x12, 645.5201 (1)

645.85 (2)

11'-3" R
647.51 (1)

WHITE PREFORMED REFLECTORIZED PAVEMENT SYMBOL, ITEM 688.04 (TYP)

4"WLL, ITEM 685.11, (TYP)

4"WLL, ITEM 685.11, (TYP)

4"WLL, ITEM 685.11, (TYP)

MATCHLINE TO PL-15

MATCHLINE TO PL-4

SCALE (FT)
0 10 20 40

NOTES:

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2. BUS STOP SIGNS ARE THE PROPERTY OF RGRTA AND SHALL ONLY BE REMOVED OR RELOCATED BY THEM. CONTRACTOR TO COORDINATE WORK AFFECTING BUS SIGNS WITH RGRTA.
3. FOR CENTRAL AVE CONSTRUCTION ITEMS SEE GP-01.
4. ALL GROUND MOUNTED SIGNS SHALL USE 3M HIP SHEETING, ASTM TYPE III. ALL OVERHEAD SIGNS SHALL BE ASTM TYPE IX.
5. ALL STREET NAME SIGNS SHALL BE BLUE WITH WHITE LETTERING.

REV	DESCRIPTION	DATE	BY
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FA PROJECT NO.
121033

PROJECT MANAGER
R. BENNETT

DRAWN BY

SCALE
AS SHOWN

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PROJECT
CENTER CITY TWO-WAY CONVERSION
SAINT PAUL STREET AND NORTH CLINTON AVENUE
BETWEEN EAST MAIN STREET AND CUMBERLAND STREET
PIN:13102
CITY OF ROCHESTER, MONROE COUNTY, NEW YORK

TITLE OF DRAWING
HIGHWAY PLAN

DRAWING NO.
PL-05

SHEET 46 OF 69

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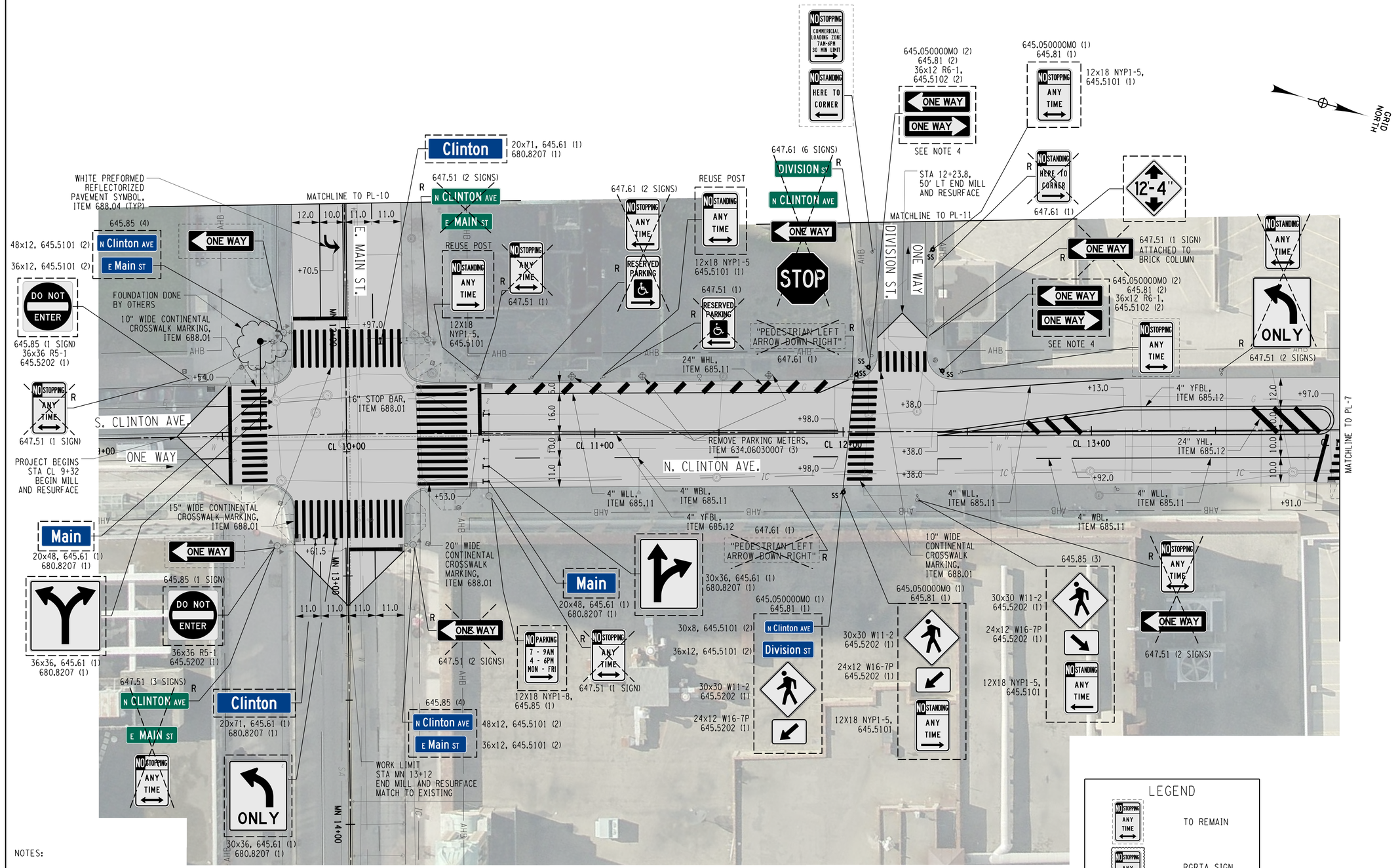

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2. BUS STOP SIGNS ARE THE PROPERTY OF RGRTA AND SHALL ONLY BE REMOVED OR RELOCATED BY THEM. CONTRACTOR TO COORDINATE WORK AFFECTING BUS SIGNS WITH RGRTA.
3. FOR SIGNAL MODIFICATION WORK AT E. MAIN ST./CLINTON AVE. ITEMS SEE DWG. TSP-12.
4. DIVISION STREET IS TO BE MODIFIED TO ONE WAY WESTBOUND.
5. ALL GROUND MOUNTED SIGNS SHALL USE 3M HIP SHEETING, ASTM TYPE III. ALL OVERHEAD SIGNS SHALL BE ASTM TYPE IX.
6. ALL STREET NAME SIGNS SHALL BE BLUE WITH WHITE LETTERING.

STRIPE TYPES
W=WHITE
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LEGEND

- TO REMAIN
- RGRTA SIGN SEE NOTE 2
- NEW SIGN
- ELIMINATE SIGN
- NEW SIGN POST SLEEVE

SCALE (FT)
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FA PROJECT NO. 121033
PROJECT MANAGER R. BENNETT
DRAWN BY
ISSUE DATE SCALE AS SHOWN JULY 2014

STATE OF NEW YORK
JEFFREY CHARLES BENNETT
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PROJECT
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PIN:13102
CITY OF ROCHESTER, MONROE COUNTY, NEW YORK

TITLE OF DRAWING
HIGHWAY PLAN

DRAWING NO.
PL-06

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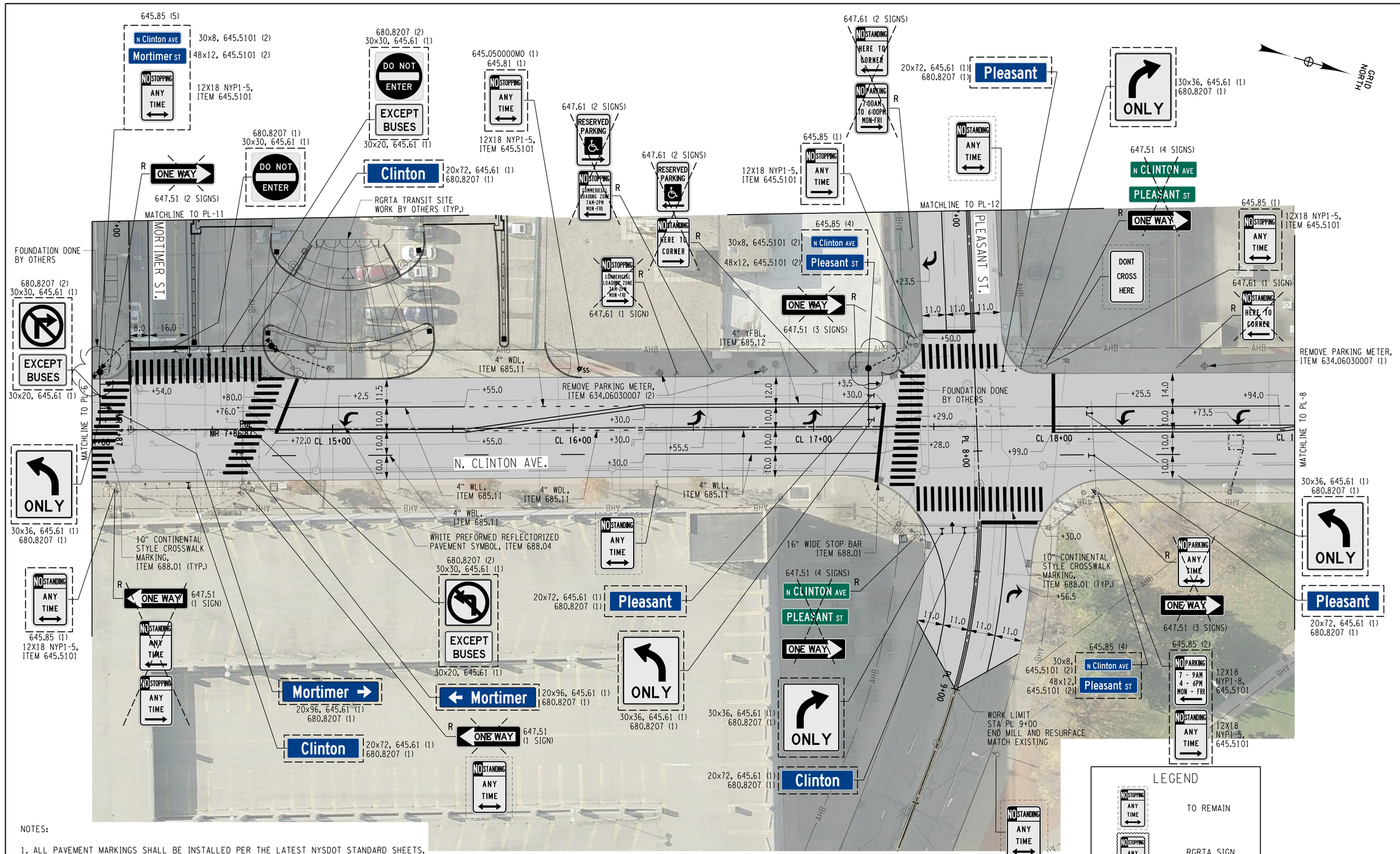

NOTES:

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3. FOR SIGNAL MODIFICATION WORK ITEMS AT MORTIMER ST./CLINTON AVE. SEE DWG. TSP-10. FOR SIGNAL MODIFICATION WORK ITEMS AT PLEASANT ST./CLINTON AVE. SEE DWG. TSP-08.
4. CONTRACTOR TO COORDINATE CONSTRUCTION ACTIVITIES WITH RGRTA WORK SITE.
5. ALL GROUND MOUNTED SIGNS SHALL USE 3M HIP SHEETING, ASTM TYPE III. ALL OVERHEAD SIGNS SHALL BE ASTM TYPE IX.
6. ALL STREET NAME SIGNS SHALL BE BLUE WITH WHITE LETTERING.

STRIPE TYPES
W=WHITE
Y=YELLOW
LL=LANE LINE
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DL=DOTTED LINE
BL=BROKEN LINE
FBL=FULL BARRIER LINE
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LEGEND

- NO STOPPING ANY TIME — TO REMAIN
- NO STOPPING ANY TIME — RGRTA SIGN SEE NOTE 2
- NO STOPPING ANY TIME — NEW SIGN
- NO STOPPING ANY TIME R — ELIMINATE SIGN
- SS — NEW SIGN POST SLEEVE

SCALE (FT)
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FA PROJECT NO. 121033
PROJECT MANAGER R. BENNETT
DRAWN BY
ISSUE DATE JULY 2014
SCALE AS SHOWN

STATE OF NEW YORK — GREGORY CHARLES CRAIG — 084070 — LICENSED PROFESSIONAL ENGINEER

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Phone: 585-334-3170

PROJECT
CENTER CITY TWO-WAY CONVERSION
SAINT PAUL STREET AND NORTH CLINTON AVENUE
BETWEEN EAST MAIN STREET AND CUMBERLAND STREET
PIN:13102
CITY OF ROCHESTER, MONROE COUNTY, NEW YORK

TITLE OF DRAWING
HIGHWAY PLAN

DRAWING NO.
PL-07

SHEET 48 OF 69

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Craig

NOTES:

1. ALL PAVEMENT MARKINGS SHALL BE INSTALLED PER THE LATEST NYSDOT STANDARD SHEETS. SEE DWG. MD-05 FOR CONTINENTAL CROSSWALK MARKING DETAILS.
2. BUS STOP SIGNS ARE THE PROPERTY OF RGRTA AND SHALL ONLY BE REMOVED OR RELOCATED BY THEM. CONTRACTOR TO COORDINATE WORK AFFECTING BUS SIGNS WITH RGRTA.
3. FOR SIGNAL MODIFICATION WORK AT ANDREWS ST./CLINTON AVE. ITEMS SEE DWG. TSP-06.
4. ALL GROUND MOUNTED SIGNS SHALL USE 3M HIP SHEETING, ASTM TYPE III. ALL OVERHEAD SIGNS SHALL BE ASTM TYPE IX.
5. ALL STREET NAME SIGNS SHALL BE BLUE WITH WHITE LETTERING.

STRIPE TYPES

W=WHITE
Y=YELLOW
LL=LANE LINE
EL=EDGE LINE
DL=DOTTED LINE
BL=BROKEN LINE
FBL=FULL BARRIER LINE
HL=HATCH LINE

LEGEND

- TO REMAIN
- RGRTA SIGN SEE NOTE 2
- NEW SIGN
- ELIMINATE SIGN
- NEW SIGN POST SLEEVE

SCALE (FT) 0 10 20 40

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FA PROJECT NO. 121033
PROJECT MANAGER R. BENNETT
DRAWN BY
SCALE AS SHOWN
ISSUE DATE JULY 2014

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PROJECT
CENTER CITY TWO-WAY CONVERSION
SAINT PAUL STREET AND NORTH CLINTON AVENUE
BETWEEN EAST MAIN STREET AND CUMBERLAND STREET
PIN:13102
CITY OF ROCHESTER, MONROE COUNTY, NEW YORK

TITLE OF DRAWING
HIGHWAY PLAN

DRAWING NO.
PL-08

SHEET 49 OF 69

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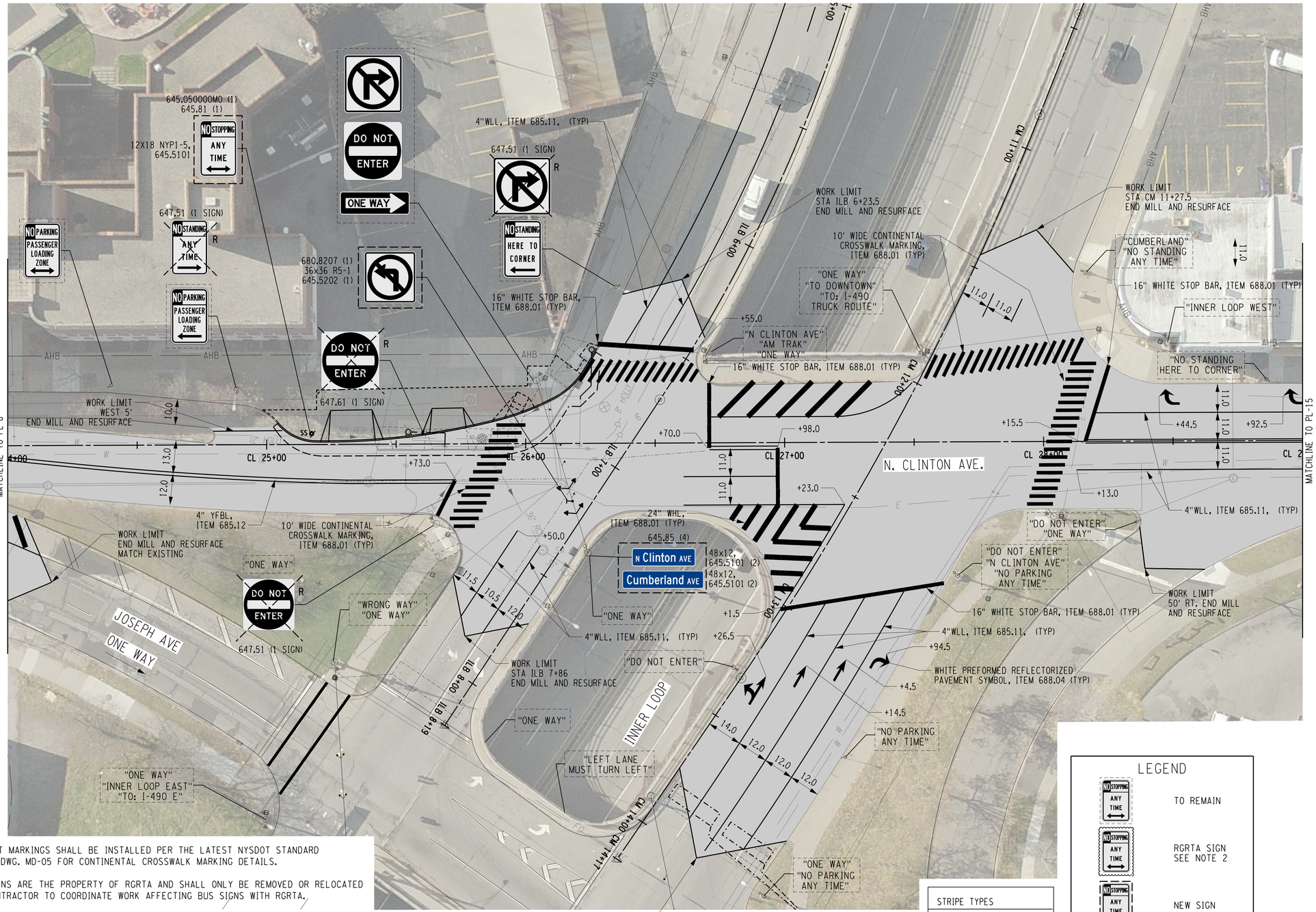
Craig



NOTES:

1. ALL PAVEMENT MARKINGS SHALL BE INSTALLED PER THE LATEST NYSDOT STANDARD SHEETS. SEE DWG. MD-05 FOR CONTINENTAL CROSSWALK MARKING DETAILS.
2. BUS STOP SIGNS ARE THE PROPERTY OF RGRTA AND SHALL ONLY BE REMOVED OR RELOCATED BY THEM. CONTRACTOR TO COORDINATE WORK AFFECTING BUS SIGNS WITH RGRTA.
3. FOR SIGNAL MODIFICATION WORK ITEMS SEE DWG. TSP-03.
4. FOR CLINTON AVE CURB MODIFICATION SEE DWG. GP-03.
5. ALL GROUND MOUNTED SIGNS SHALL USE 3M HIP SHEETING, ASTM TYPE III. ALL OVERHEAD SIGNS SHALL BE ASTM TYPE IX.
6. ALL STREET NAME SIGNS SHALL BE BLUE WITH WHITE LETTERING.

STRIPE TYPES

W=WHITE
Y=YELLOW
LL=LANE LINE
EL=EDGE LINE
DL=DOTTED LINE
BL=BROKEN LINE
FBL=FULL BARRIER LINE
HL=HATCH LINE

LEGEND

- TO REMAIN
- RGRTA SIGN SEE NOTE 2
- NEW SIGN
- ELIMINATE SIGN
- NEW SIGN POST SLEEVE

SCALE (FT) 0 10 20 40

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FA PROJECT NO. 121033
PROJECT MANAGER R. BENNETT
DRAWN BY
SCALE AS SHOWN
ISSUE DATE JULY 2014

STATE OF NEW YORK — JEFFREY CHARLES FAHEY — 084070 — LICENSED PROFESSIONAL ENGINEER

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PROJECT
CENTER CITY TWO-WAY CONVERSION
SAINT PAUL STREET AND NORTH CLINTON AVENUE
BETWEEN EAST MAIN STREET AND CUMBERLAND STREET
PIN:13102
CITY OF ROCHESTER, MONROE COUNTY, NEW YORK

TITLE OF DRAWING
HIGHWAY PLAN

DRAWING NO.
PL-09

SHEET 50 OF 69

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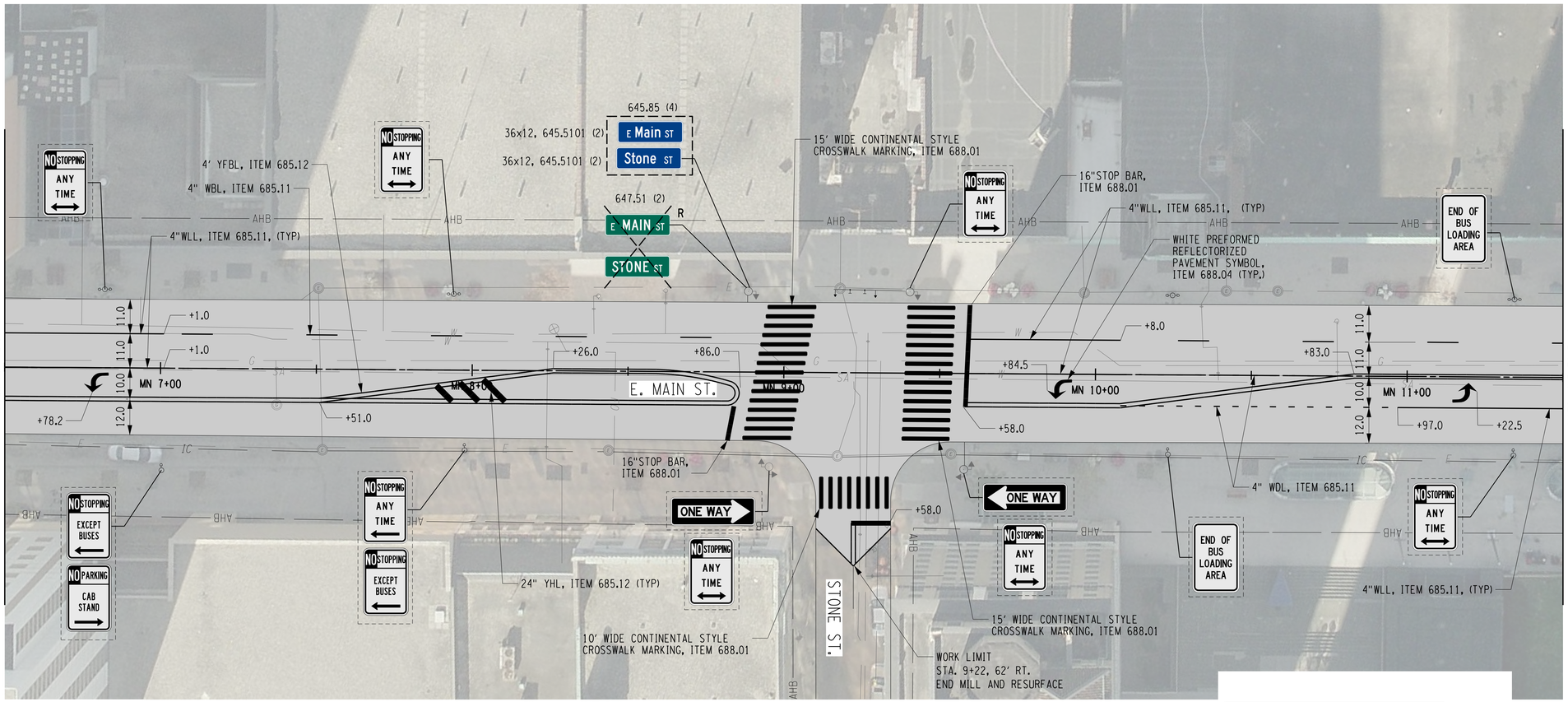
Craig



NOTES:

1. ALL PAVEMENT MARKINGS SHALL BE INSTALLED PER THE LATEST NYSDOT STANDARD SHEETS. SEE DWG. MD-05 FOR CONTINENTAL CROSSWALK MARKING DETAILS.
2. BUS STOP SIGNS ARE THE PROPERTY OF RGRTA AND SHALL ONLY BE REMOVED OR RELOCATED BY THEM. CONTRACTOR TO COORDINATE WORK AFFECTING BUS SIGNS WITH RGRTA.
3. ALL GROUND MOUNTED SIGNS SHALL USE 3M HIP SHEETING, ASTM TYPE III. ALL OVERHEAD SIGNS SHALL BE ASTM TYPE IX.
4. ALL STREET NAME SIGNS SHALL BE BLUE WITH WHITE LETTERING.

STRIPE TYPES
W=WHITE
Y=YELLOW
LL=LANE LINE
EL=EDGE LINE
DL=DOTTED LINE
BL=BROKEN LINE
FBL=FULL BARRIER LINE
HL=HATCH LINE

LEGEND

- NO STOPPING ANY TIME — TO REMAIN
- NO STOPPING ANY TIME — RGRTA SIGN SEE NOTE 2
- NO STOPPING ANY TIME — NEW SIGN
- NO STOPPING ANY TIME R — ELIMINATE SIGN
- SSP — NEW SIGN POST SLEEVE

SCALE (FT)
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If an item bearing the seal of an engineer or land surveyor is altered, the altering engineer or land surveyor shall affix to the item his/her seal and his/her signature and the date of such alteration, and a specific description of the alteration.

FA PROJECT NO.
121033

PROJECT MANAGER
R. BENNETT

DRAWN BY

ISSUE DATE
SCALE AS SHOWN JULY 2014

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PROJECT
CENTER CITY TWO-WAY CONVERSION
SAINT PAUL STREET AND NORTH CLINTON AVENUE
BETWEEN EAST MAIN STREET AND CUMBERLAND STREET
PIN:13102
CITY OF ROCHESTER, MONROE COUNTY, NEW YORK

TITLE OF DRAWING
HIGHWAY PLAN

DRAWING NO.
PL-10

SHEET 51 OF 69

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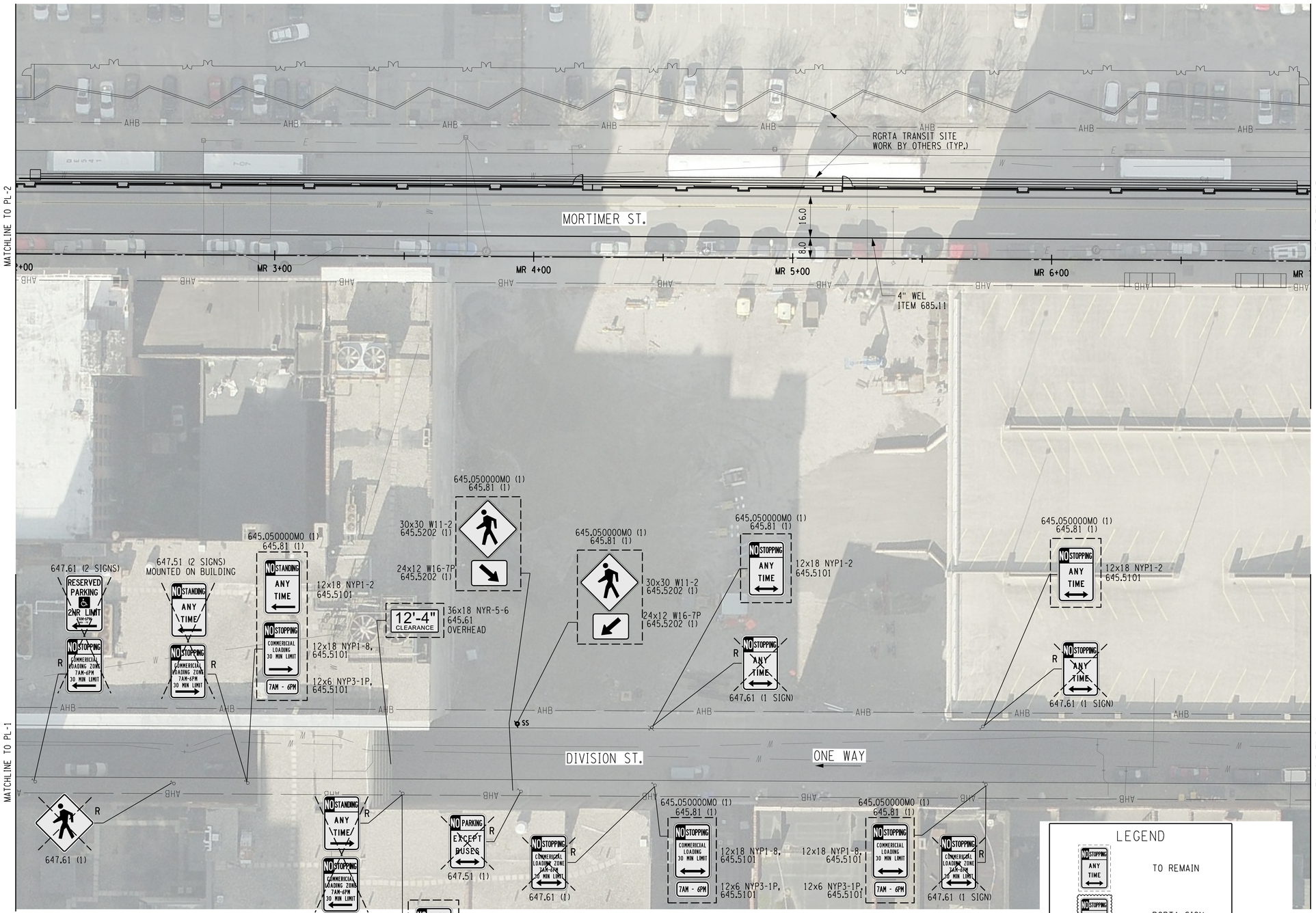
Craig



NOTES:

1. ALL PAVEMENT MARKINGS SHALL BE INSTALLED PER THE LATEST NYSDOT STANDARD SHEETS. SEE DWG. MD-05 FOR CONTINENTAL CROSSWALK MARKING DETAILS.
2. BUS STOP SIGNS ARE THE PROPERTY OF RGRTA AND SHALL ONLY BE REMOVED OR RELOCATED BY THEM. CONTRACTOR TO COORDINATE WORK AFFECTING BUS SIGNS WITH RGRTA.
3. DIVISION STREET IS TO BE MODIFIED TO ONE WAY WESTBOUND.
4. ALL GROUND MOUNTED SIGNS SHALL USE 3M HIP SHEETING, ASTM TYPE III. ALL OVERHEAD SIGNS SHALL BE ASTM TYPE IX.
5. ALL STREET NAME SIGNS SHALL BE BLUE WITH WHITE LETTERING.

STRIPE TYPES
W=WHITE
Y=YELLOW
LL=LANE LINE
EL=EDGE LINE
DL=DOTTED LINE
BL=BROKEN LINE
FBL=FULL BARRIER LINE
HL=HATCH LINE

LEGEND

- TO REMAIN
- RGRTA SIGN SEE NOTE 2
- NEW SIGN
- ELIMINATE SIGN
- NEW SIGN POST SLEEVE

SCALE (FT)
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If an item bearing the seal of an engineer, architect, landscape architect or land surveyor is altered, the altering engineer, architect, landscape architect or land surveyor shall affix to the item his/her seal and his/her signature and the date of such alteration, and a specific description of the alteration.

FA PROJECT NO.
121033

PROJECT MANAGER
R. BENNETT

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AS SHOWN

ISSUE DATE
JULY 2014

RICHARD CHARLES BENNETT
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PROJECT
CENTER CITY TWO-WAY CONVERSION
SAINT PAUL STREET AND NORTH CLINTON AVENUE
BETWEEN EAST MAIN STREET AND CUMBERLAND STREET
PIN:13102
CITY OF ROCHESTER, MONROE COUNTY, NEW YORK

TITLE OF DRAWING
HIGHWAY PLAN

DRAWING NO.
PL-11

SHEET 52 OF 69

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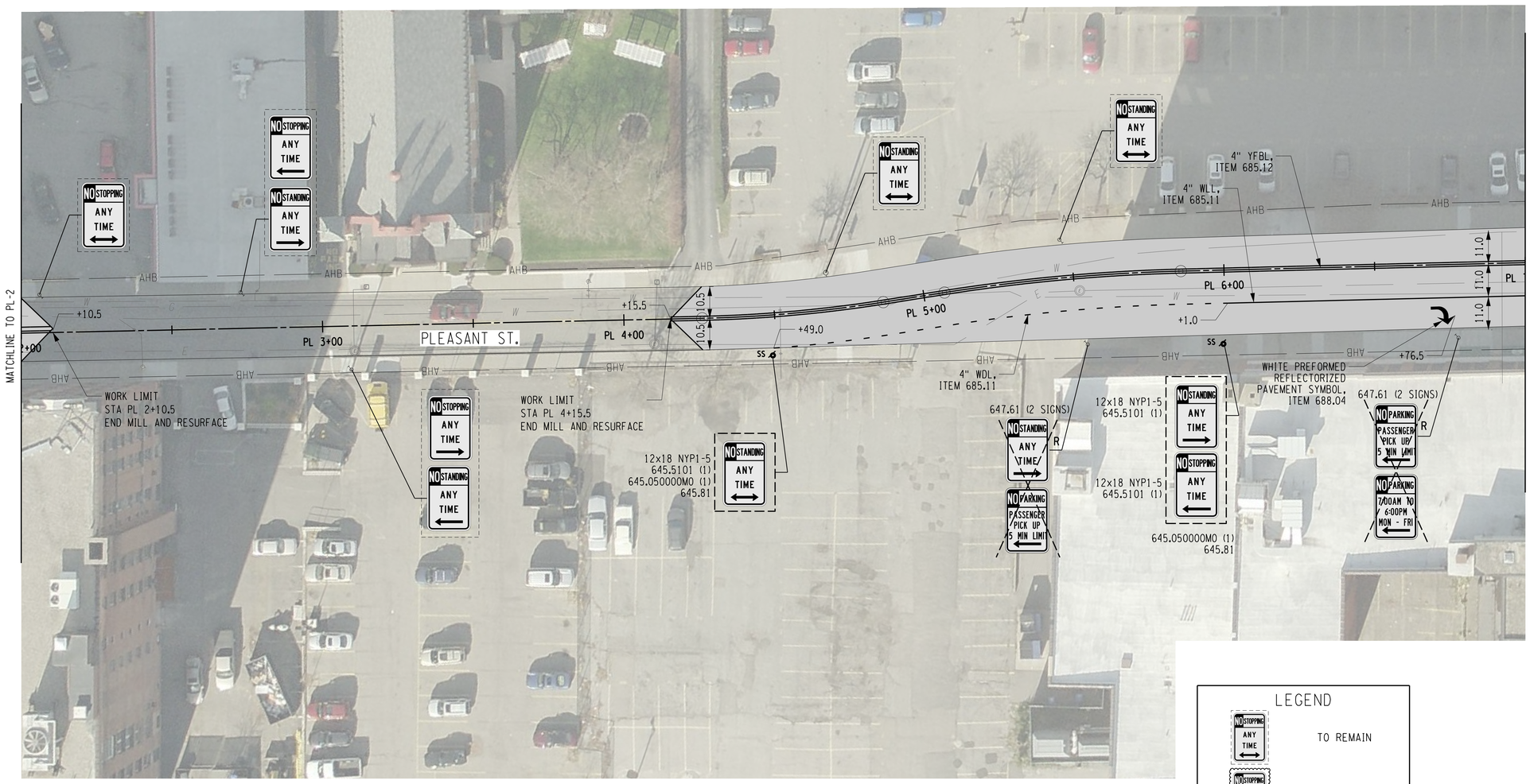

NOTES:

1. ALL PAVEMENT MARKINGS SHALL BE INSTALLED PER THE LATEST NYSDOT STANDARD SHEETS. SEE DWG. MD-05 FOR CONTINENTAL CROSSWALK MARKING DETAILS.
2. BUS STOP SIGNS ARE THE PROPERTY OF RGRTA AND SHALL ONLY BE REMOVED OR RELOCATED BY THEM. CONTRACTOR TO COORDINATE WORK AFFECTING BUS SIGNS WITH RGRTA.
3. ALL GROUND MOUNTED SIGNS SHALL USE 3M HIP SHEETING, ASTM TYPE III. ALL OVERHEAD SIGNS SHALL BE ASTM TYPE IX.
4. ALL STREET NAME SIGNS SHALL BE BLUE WITH WHITE LETTERING.

STRIPE TYPES
W=WHITE
Y=YELLOW
LL=LANE LINE
EL=EDGE LINE
DL=DOTTED LINE
BL=BROKEN LINE
FBL=FULL BARRIER LINE
HL=HATCH LINE

LEGEND

- NO STOPPING ANY TIME — TO REMAIN
- NO STOPPING ANY TIME — RGRTA SIGN SEE NOTE 2
- NO STOPPING ANY TIME — NEW SIGN
- NO STOPPING ANY TIME R — ELIMINATE SIGN
- SS — NEW SIGN POST SLEEVE

SCALE (FT)
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If an item bearing the seal of an engineer, architect, landscape architect or land surveyor is altered, the altering engineer, architect, landscape architect or land surveyor shall affix to the item his/her seal and his/her signature and the date of such alteration, and a specific description of the alteration.

FA PROJECT NO.
121033
PROJECT MANAGER
R. BENNETT
DRAWN BY
ISSUE DATE
SCALE
AS SHOWN
JULY 2014

STATE OF NEW YORK
REGINA CHARLES BENNETT
084070
LICENSED PROFESSIONAL ENGINEER

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PROJECT
CENTER CITY TWO-WAY CONVERSION
SAINT PAUL STREET AND NORTH CLINTON AVENUE
BETWEEN EAST MAIN STREET AND CUMBERLAND STREET
PIN:13102
CITY OF ROCHESTER, MONROE COUNTY, NEW YORK

TITLE OF DRAWING
HIGHWAY PLAN

DRAWING NO.
PL-12

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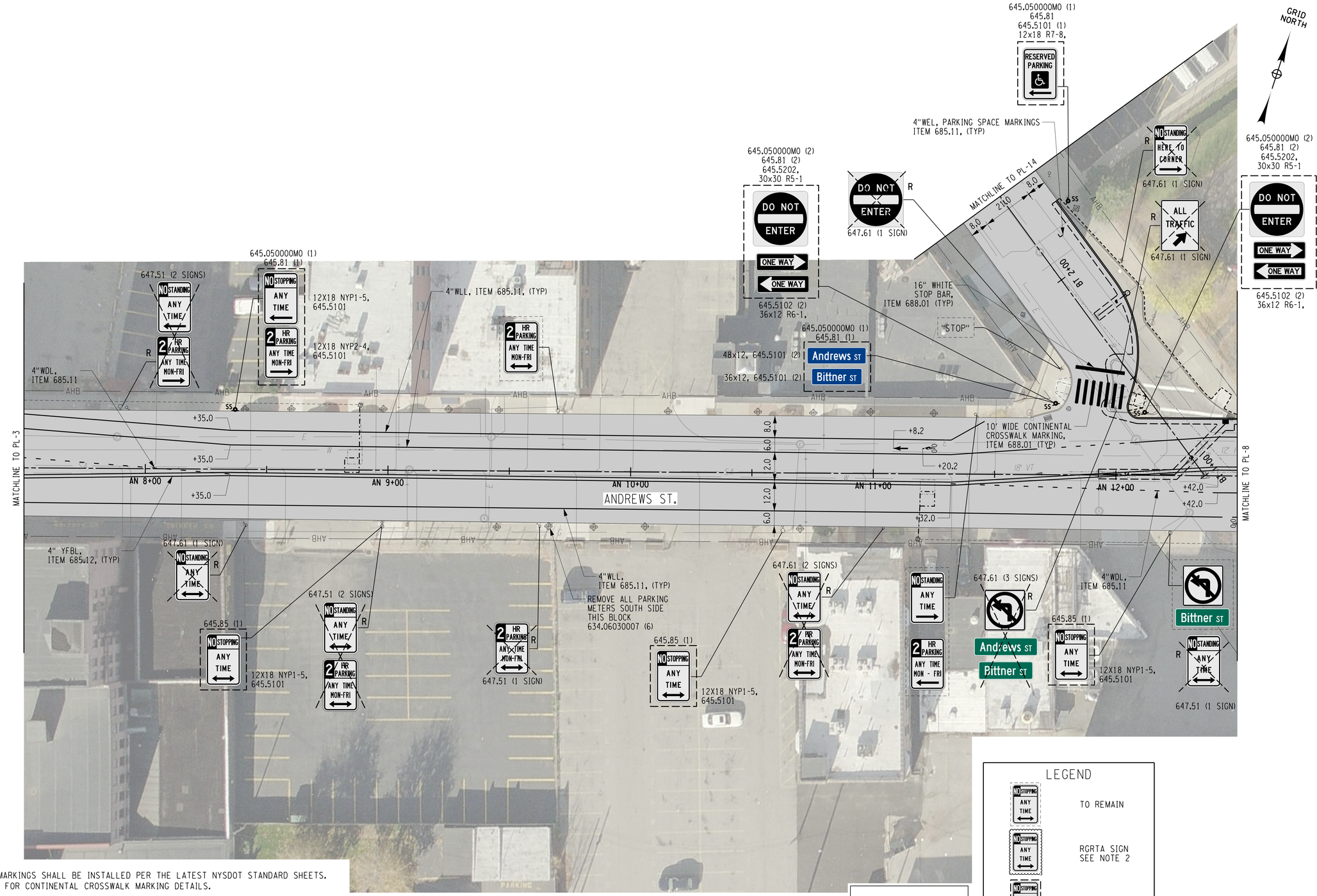

NOTES:

1. ALL PAVEMENT MARKINGS SHALL BE INSTALLED PER THE LATEST NYSDOT STANDARD SHEETS. SEE DWG. MD-05 FOR CONTINENTAL CROSSWALK MARKING DETAILS.
2. BUS STOP SIGNS ARE THE PROPERTY OF RGRTA AND SHALL ONLY BE REMOVED OR RELOCATED BY THEM. CONTRACTOR TO COORDINATE WORK AFFECTING BUS SIGNS WITH RGRTA.
3. FOR BITTNER STREET CURB MODIFICATIONS SEE DWG. GP-04.
4. ALL GROUND MOUNTED SIGNS SHALL USE 3M HIP SHEETING, ASTM TYPE III. ALL OVERHEAD SIGNS SHALL BE ASTM TYPE IX.
5. ALL STREET NAME SIGNS SHALL BE BLUE WITH WHITE LETTERING.

STRIPE TYPES
W=WHITE
Y=YELLOW
LL=LANE LINE
EL=EDGE LINE
DL=DOTTED LINE
BL=BROKEN LINE
FBL=FULL BARRIER LINE
HL=HATCH LINE

LEGEND

- NO STOPPING ANY TIME — TO REMAIN
- NO STOPPING ANY TIME — RGRTA SIGN SEE NOTE 2
- NO STOPPING ANY TIME — NEW SIGN
- NO STOPPING ANY TIME R — ELIMINATE SIGN
- SS — NEW SIGN POST SLEEVE

SCALE (FT)
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If an item bearing the seal of an engineer, architect, landscape architect or land surveyor is altered, the altering engineer, architect, landscape architect or land surveyor shall affix to the item his/her seal and his/her signature and the date of such alteration, and a specific description of the alteration.

FA PROJECT NO.
121033
PROJECT MANAGER
R. BENNETT
DRAWN BY
ISSUE DATE
JULY 2014
SCALE
AS SHOWN

STATE OF NEW YORK
JEFFREY CHARLES BENNETT
084070
LICENSED PROFESSIONAL ENGINEER

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135 Dallas Road, Rochester NY 14623
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PROJECT
CENTER CITY TWO-WAY CONVERSION
SAINT PAUL STREET AND NORTH CLINTON AVENUE
BETWEEN EAST MAIN STREET AND CUMBERLAND STREET
PIN:13102
CITY OF ROCHESTER, MONROE COUNTY, NEW YORK

TITLE OF DRAWING
HIGHWAY PLAN

DRAWING NO.
PL-13

SHEET 54 OF 69

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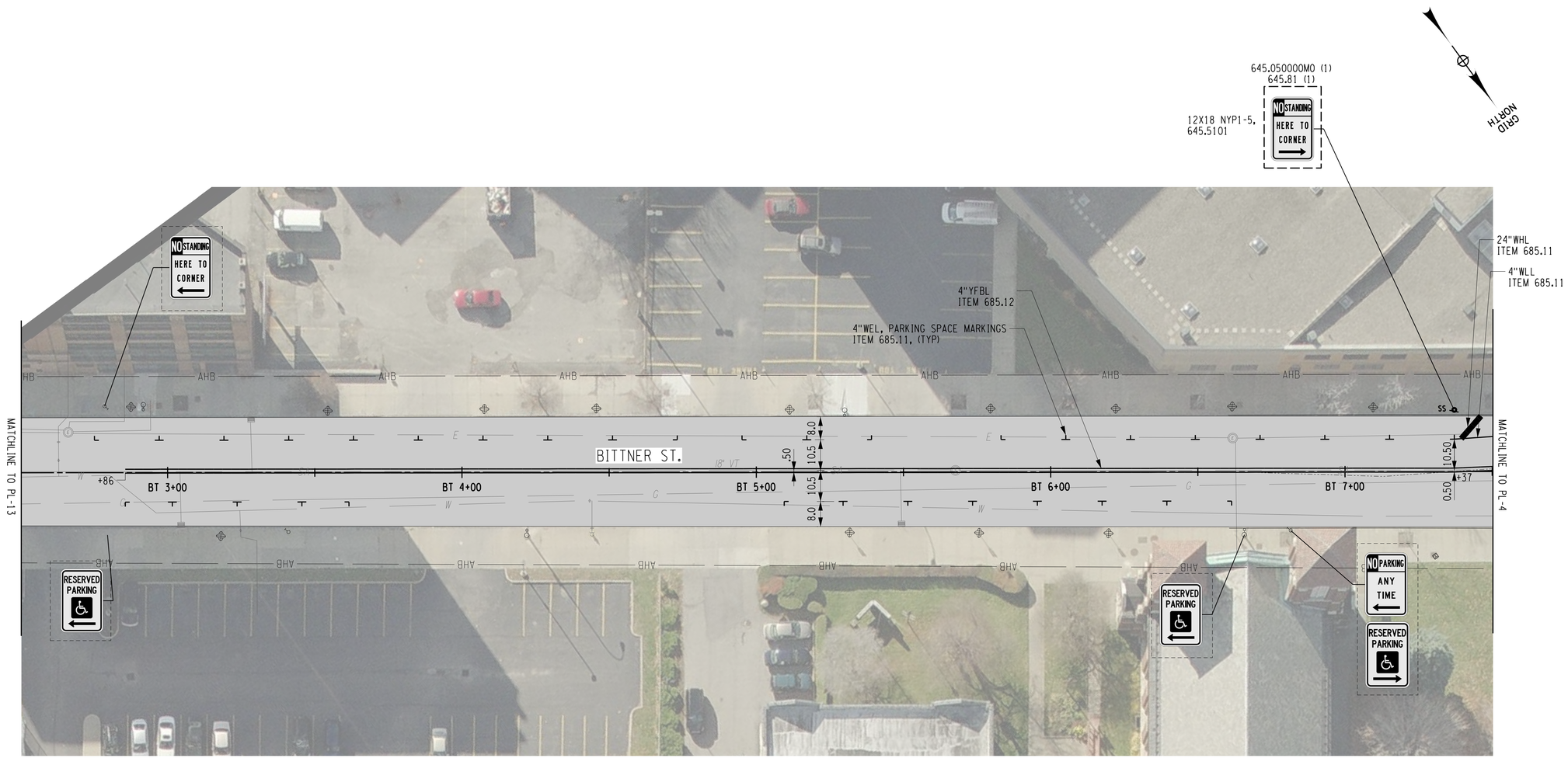

NOTES:

1. ALL PAVEMENT MARKINGS SHALL BE INSTALLED PER THE LATEST NYSDOT STANDARD SHEETS. SEE DWG. MD-05 FOR CONTINENTAL CROSSWALK MARKING DETAILS.
2. BUS STOP SIGNS ARE THE PROPERTY OF RGRTA AND SHALL ONLY BE REMOVED OR RELOCATED BY THEM. CONTRACTOR TO COORDINATE WORK AFFECTING BUS SIGNS WITH RGRTA.
3. FOR CURB MODIFICATIONS SEE DWG. GP-02.
4. BITTNER STREET IS BEING CONVERTED FROM TWO-WAY TO ONE-WAY SOUTHBOUND.
5. PARKING SPACE STRIPING SHALL BE ADJUSTED IN FIELD TO ALIGN WITH EXISTING PARKING METERS.
6. ALL GROUND MOUNTED SIGNS SHALL USE 3M HIP SHEETING, ASTM TYPE III. ALL OVERHEAD SIGNS SHALL BE ASTM TYPE IX.
7. ALL STREET NAME SIGNS SHALL BE BLUE WITH WHITE LETTERING.

STRIPE TYPES
W=WHITE
Y=YELLOW
LL=LANE LINE
EL=EDGE LINE
DL=DOTTED LINE
BL=BROKEN LINE
FBL=FULL BARRIER LINE
HL=HATCH LINE

LEGEND

- NO STOPPING ANY TIME — TO REMAIN
- NO STOPPING ANY TIME — RGRTA SIGN SEE NOTE 2
- NO STOPPING ANY TIME — NEW SIGN
- NO STOPPING ANY TIME (R) — ELIMINATE SIGN
- SS — NEW SIGN POST SLEEVE

SCALE (FT)
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If an item bearing the seal of an engineer or land surveyor is altered, the altering engineer or land surveyor shall affix to the item his/her seal and the notation "altered by" followed by his/her signature and the date of such alteration, and a specific description of the alteration.

FA PROJECT NO. 121033
PROJECT MANAGER R. BENNETT
DRAWN BY
ISSUE DATE JULY 2014
SCALE AS SHOWN

STATE OF NEW YORK — REGINA CHARLES BENNETT — 084070 — LICENSED PROFESSIONAL ENGINEER

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PROJECT
CENTER CITY TWO-WAY CONVERSION
SAINT PAUL STREET AND NORTH CLINTON AVENUE
BETWEEN EAST MAIN STREET AND CUMBERLAND STREET
PIN:13102
CITY OF ROCHESTER, MONROE COUNTY, NEW YORK

TITLE OF DRAWING
HIGHWAY PLAN

DRAWING NO.
PL-14

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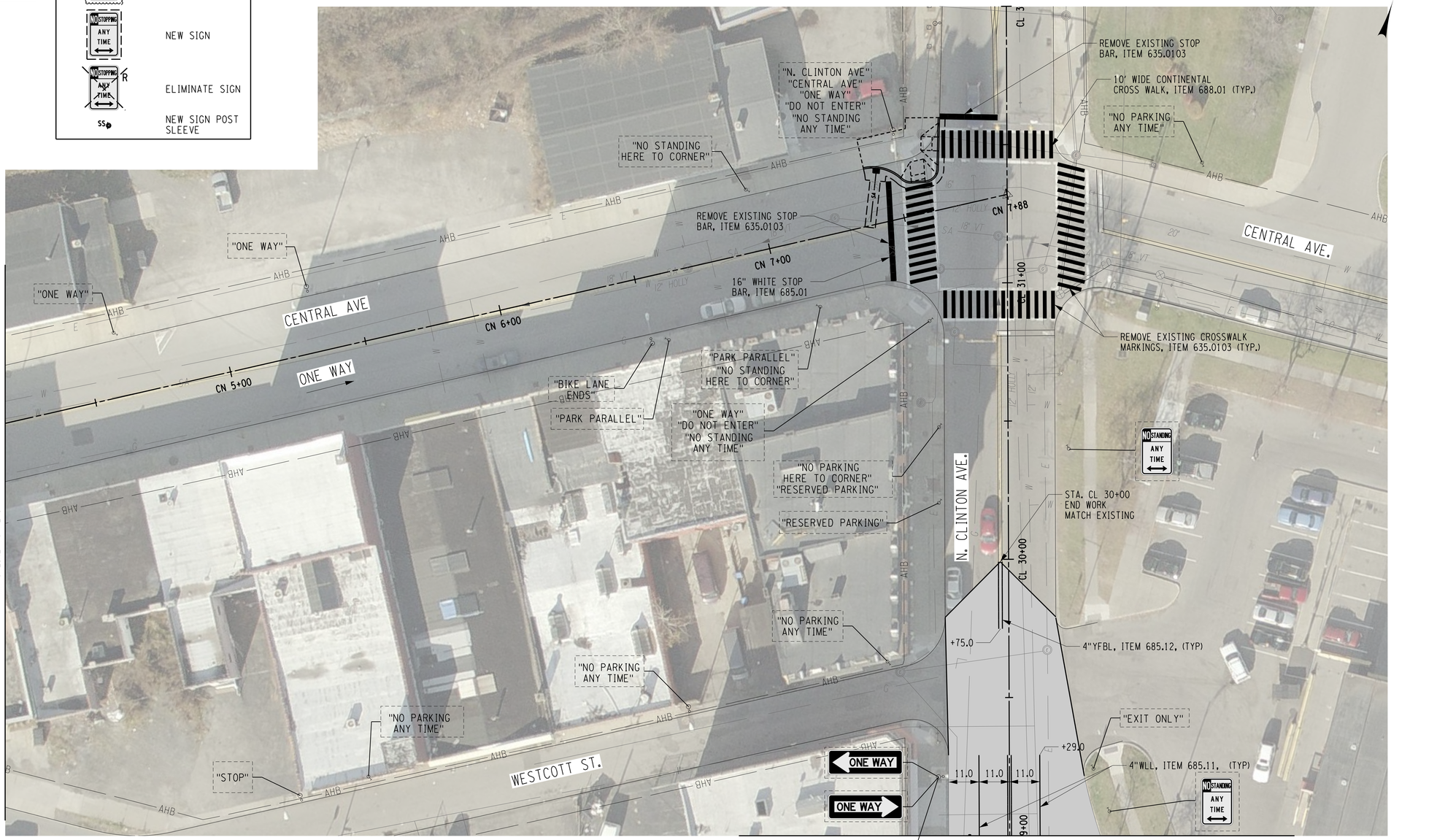
Craig

STRIPE TYPES
W=WHITE
Y=YELLOW
LL=LANE LINE
EL=EDGE LINE
DL=DOTTED LINE
BL=BROKEN LINE
FBL=FULL BARRIER LINE
HL=HATCH LINE

LEGEND

- TO REMAIN
- RGRTA SIGN SEE NOTE 2
- NEW SIGN
- ELIMINATE SIGN
- NEW SIGN POST SLEEVE



SCALE (FT)
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NOTES:

1. ALL PAVEMENT MARKINGS SHALL BE INSTALLED PER THE LATEST NYSDOT STANDARD SHEETS. SEE DWG. MD-05 FOR CONTINENTAL CROSSWALK MARKING DETAILS.
2. BUS STOP SIGNS ARE THE PROPERTY OF RGRTA AND SHALL ONLY BE REMOVED OR RELOCATED BY THEM. CONTRACTOR TO COORDINATE WORK AFFECTING BUS SIGNS WITH RGRTA.
3. FOR CENTRAL AVE CURB MODIFICATION DWG. SEE GP-05.
4. ALL GROUND MOUNTED SIGNS SHALL USE 3M HIP SHEETING, ASTM TYPE III. ALL OVERHEAD SIGNS SHALL BE ASTM TYPE IX.
5. ALL STREET NAME SIGNS SHALL BE BLUE WITH WHITE LETTERING.

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FA PROJECT NO. 121033
PROJECT MANAGER R. BENNETT
DRAWN BY
SCALE AS SHOWN
ISSUE DATE JULY 2014

STATE OF NEW YORK · CHARLES R. BENNETT · 084070 · REGISTERED PROFESSIONAL ENGINEER

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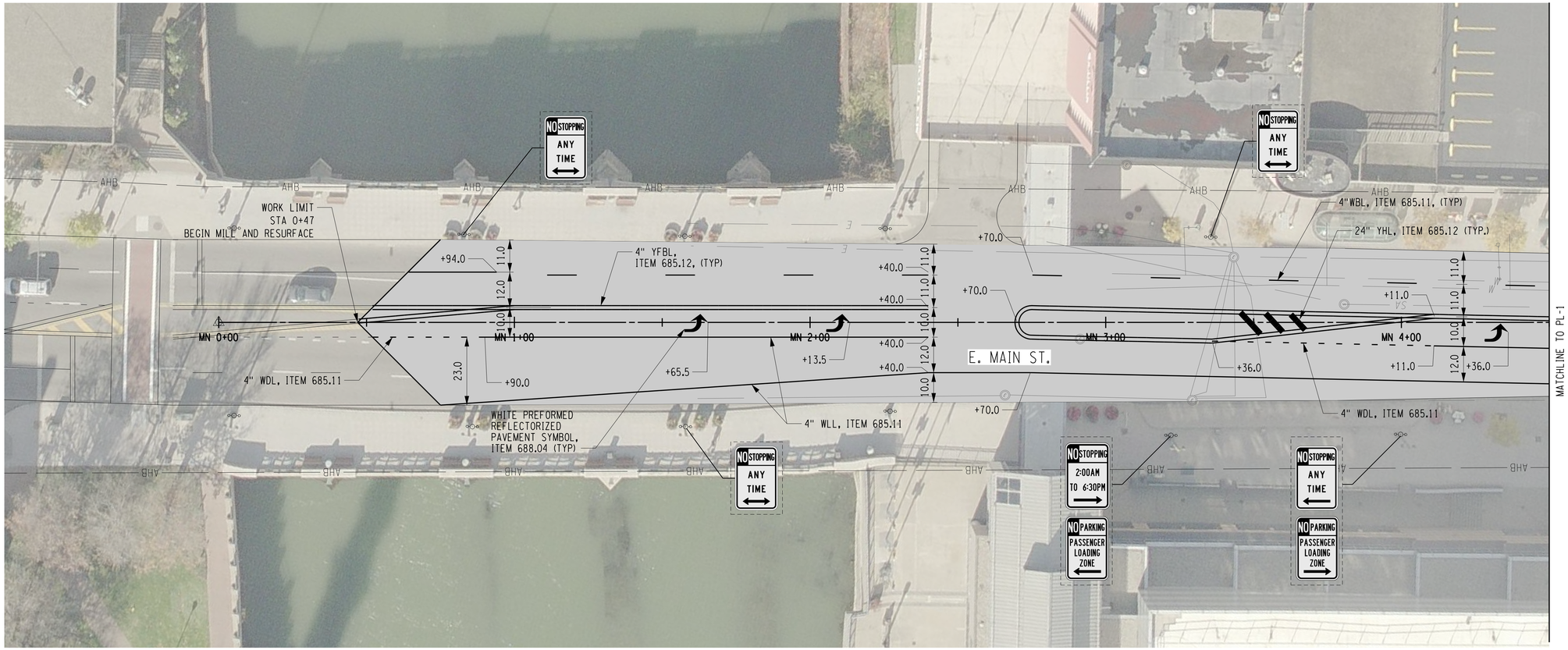
Phone: 585-334-3130

PROJECT
CENTER CITY TWO-WAY CONVERSION
SAINT PAUL STREET AND NORTH CLINTON AVENUE
BETWEEN EAST MAIN STREET AND CUMBERLAND STREET
PIN:13102
CITY OF ROCHESTER, MONROE COUNTY, NEW YORK

TITLE OF DRAWING
HIGHWAY PLAN

DRAWING NO.
PL-15



NOTES:

1. ALL PAVEMENT MARKINGS SHALL BE INSTALLED PER THE LATEST NYSDOT STANDARD SHEETS. SEE DWG. MD-05 FOR CONTINENTAL CROSSWALK MARKING DETAILS.
2. BUS STOP SIGNS ARE THE PROPERTY OF RGRTA AND SHALL ONLY BE REMOVED OR RELOCATED BY THEM. CONTRACTOR TO COORDINATE WORK AFFECTING BUS SIGNS WITH RGRTA.
3. ALL GROUND MOUNTED SIGNS SHALL USE 3M HIP SHEETING, ASTM TYPE III. ALL OVERHEAD SIGNS SHALL BE ASTM TYPE IX.
4. ALL STREET NAME SIGNS SHALL BE BLUE WITH WHITE LETTERING.

STRIPE TYPES
W=WHITE
Y=YELLOW
LL=LANE LINE
EL=EDGE LINE
DL=DOTTED LINE
BL=BROKEN LINE
FBL=FULL BARRIER LINE
HL=HATCH LINE

LEGEND

- TO REMAIN
- RGRTA SIGN SEE NOTE 2
- NEW SIGN
- ELIMINATE SIGN
- NEW SIGN POST SLEEVE

SCALE (FT)
0 10 20 40

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Craig

REV	DESCRIPTION	DATE	BY
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FA PROJECT NO.
121033

PROJECT MANAGER
R. BENNETT

DRAWN BY

SCALE
AS SHOWN

ISSUE DATE
JULY 2014

FISHER ASSOCIATES
WWW.FISHERASSOC.COM
135 Calkins Road, Rochester, NY 14623
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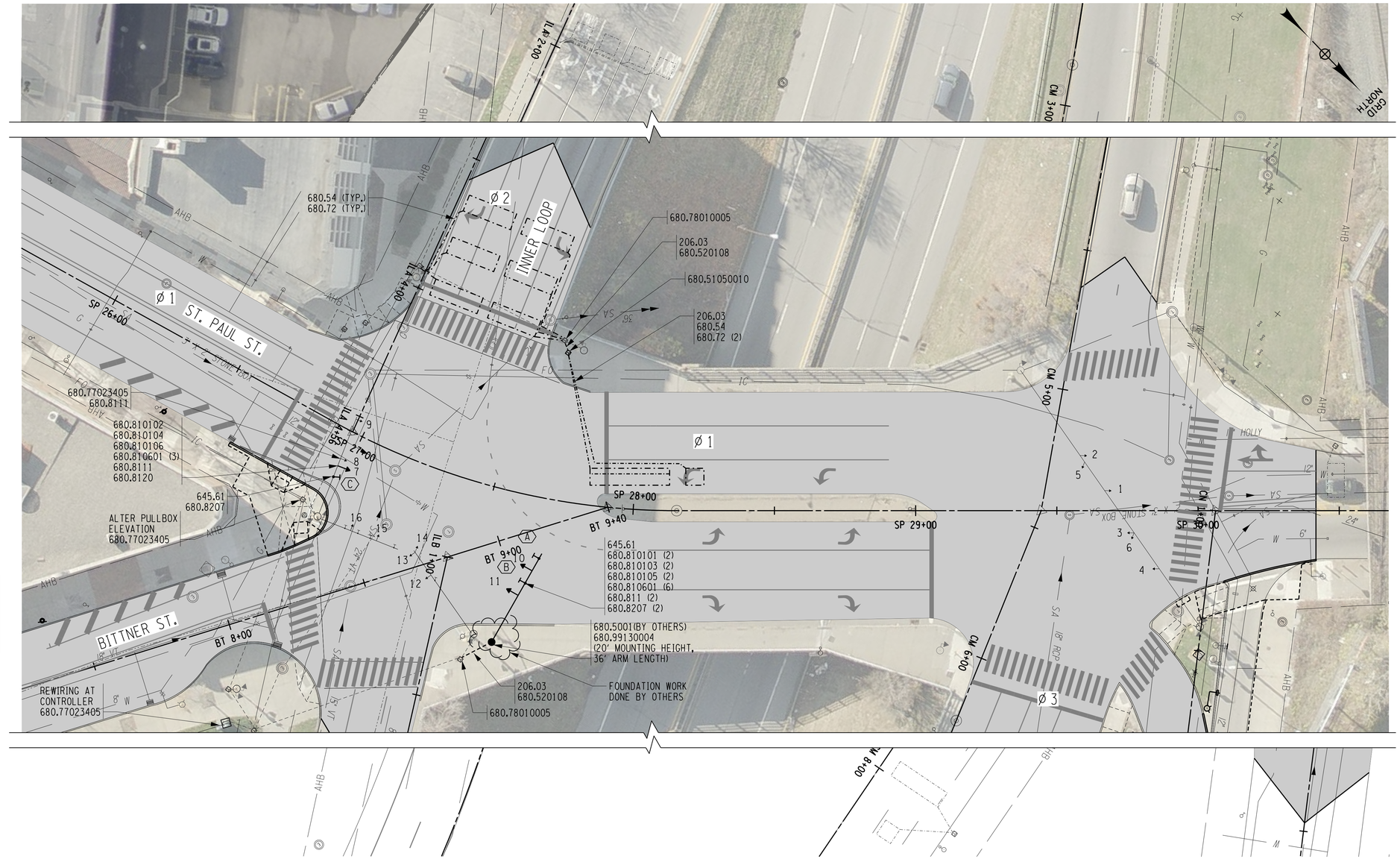
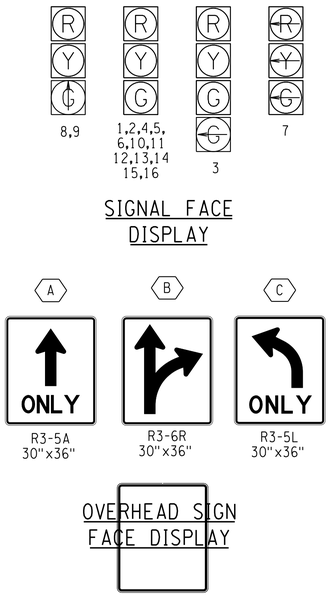
PROJECT
CENTER CITY TWO-WAY CONVERSION
SAINT PAUL STREET AND NORTH CLINTON AVENUE
BETWEEN EAST MAIN STREET AND CUMBERLAND STREET
PIN:13102
CITY OF ROCHESTER, MONROE COUNTY, NEW YORK

TITLE OF DRAWING
HIGHWAY PLAN

DRAWING NO.
PL-16





SIGNAL FACE DISPLAY

OVERHEAD SIGN FACE DISPLAY

MCDOT SIGNAL NO. 234

SCALE (FT)
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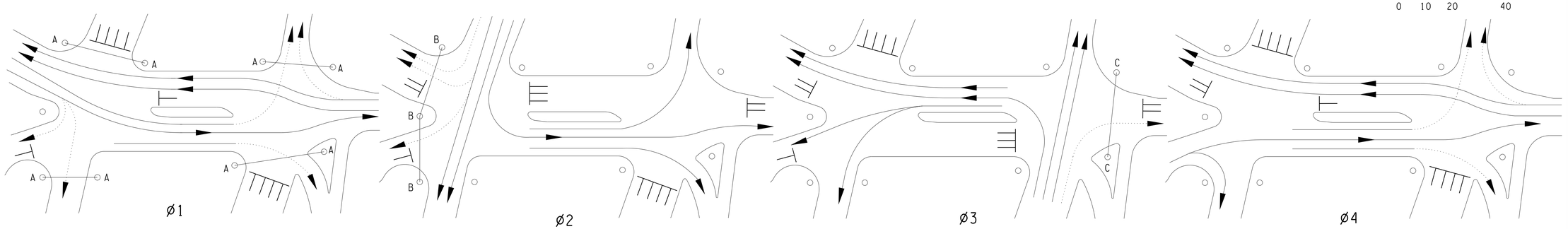

REV	DESCRIPTION	DATE	BY
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FA PROJECT NO.
121033

PROJECT MANAGER
R. BENNETT

DRAWN BY
T. DAVIS

SCALE
AS SHOWN

ISSUE DATE
JULY 2014

STATE OF NEW YORK
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PROJECT
CENTER CITY TWO-WAY CONVERSION
SAINT PAUL STREET AND NORTH CLINTON AVENUE
BETWEEN EAST MAIN STREET AND CUMBERLAND STREET
PIN:13102
CITY OF ROCHESTER, MONROE COUNTY, NEW YORK

TITLE OF DRAWING
TRAFFIC SIGNAL PLAN

DRAWING NO.
TSP-01

SHEET 58 OF 69

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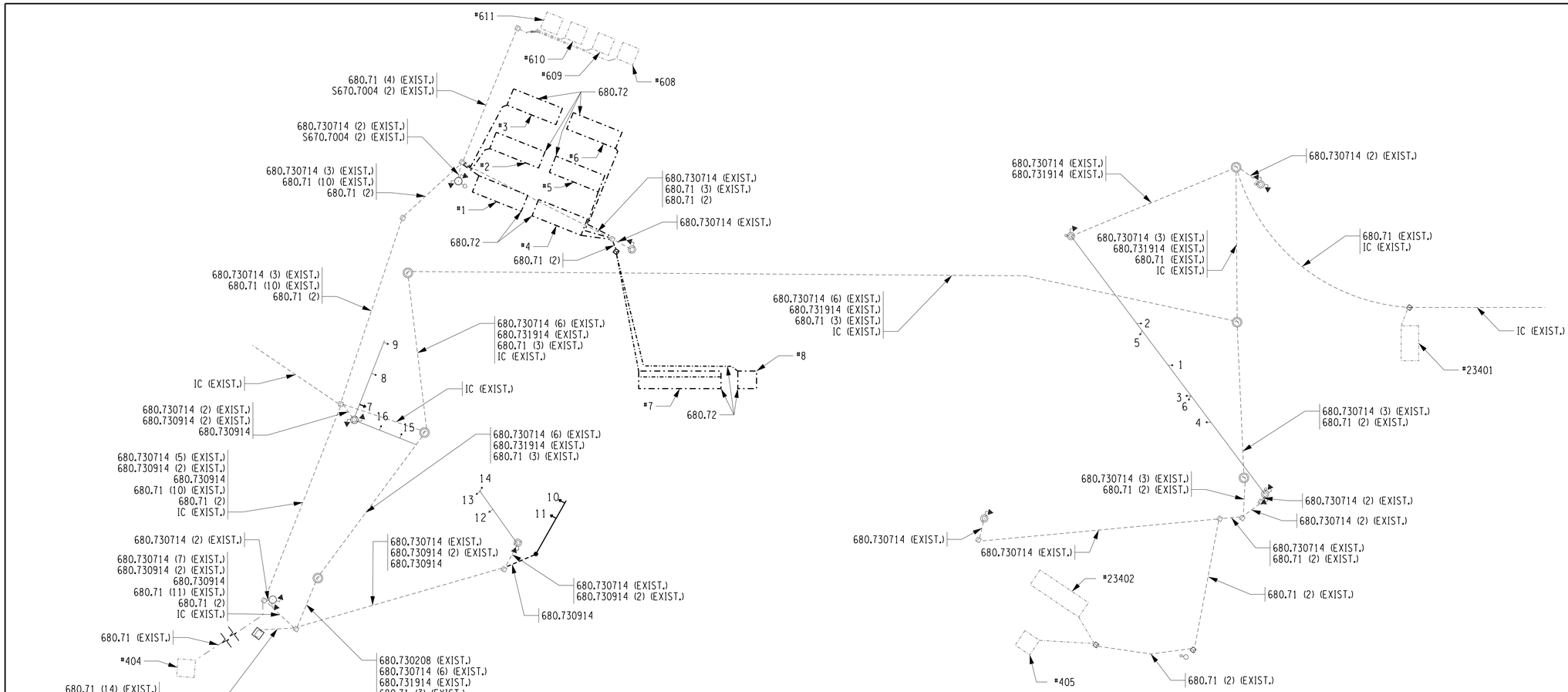

DONE BY OTHERS

TABLE OF QUANTITIES

ITEM NUMBER	DESCRIPTION	UNIT	ESTIMATED QUANTITY	FINAL QUANTITY
206.03	CONDUIT EXCAVATION AND BACKFILL INCLUDING SURFACE RESTORATION	LF	28	
645.61	OVERHEAD SIGN PANELS	SF	22.5	
680.5001	POLE EXCAVATION AND CONCRETE FOUNDATION	CY	4.8	
680.51050010	PULLBOX-RECTANGULAR, 26x18 INCH, REINFORCED CONCRETE	EA	1	
680.520108	CONDUIT, METAL STEEL, ZINC COATED, 3"	LF	22	
680.54	INDUCTANCE LOOP INSTALLATION	LF	606	
680.71	SHIELDED LEAD-IN CABLE	LF	625	
680.72	INDUCTANCE LOOP WIRE	LF	1356	
680.730914	SIGNAL CABLE 9 CONDUCTORS, 14 AWG	LF	210	
680.77023405	MODIFY TRAFFIC SIGNAL INSTALLATION (NO. 234)	EA	1	
680.78010005	ALTER PULLBOX FOR CONDUITS	EA	2	
680.810101	TRAFFIC SIGNAL MODULE - 12 INCH, RED BALL, LED	EA	2	
680.810102	TRAFFIC SIGNAL MODULE - 12 INCH, RED ARROW, LED	EA	1	
680.810103	TRAFFIC SIGNAL MODULE - 12 INCH, YELLOW BALL, LED	EA	2	
680.810104	TRAFFIC SIGNAL MODULE - 12 INCH, YELLOW ARROW, LED	EA	1	
680.810105	TRAFFIC SIGNAL MODULE - 12 INCH, GREEN BALL, LED	EA	2	
680.810106	TRAFFIC SIGNAL MODULE - 12 INCH, GREEN ARROW, LED	EA	1	
680.810601	TRAFFIC SIGNAL SECTION - POLYCARBONATE, TYPE I, 12 INCH	EA	9	
680.8111	TRAFFIC SIGNAL BRACKET ASSEMBLY - 1 WAY	EA	4	
680.8120	TRAFFIC DISCONNECT HANGER	EA	1	
680.8207	OVERHEAD SIGN ASSEMBLY, TYPE G	EA	3	
680.99130004	INSTALL TRAFFIC SIGNAL POLE - MAST ARM	EA	1	

TABLE OF INDUCTANCE LOOP DESIGN

DETECTOR NUMBER	PHASE NUMBER	INDUCTANCE LOOP SIZE	NUMBER OF TURNS	NOTES
1	Ø2	6'x18'	3	REPLACE EXISTING
2	Ø2	6'x18'	3	REPLACE EXISTING
3	Ø2	6'x18'	3	REPLACE EXISTING
4	Ø2	6'x18'	3	REPLACE EXISTING
5	Ø2	6'x18'	3	REPLACE EXISTING
6	Ø2	6'x18'	3	REPLACE EXISTING
7	Ø3	6'x30'	2-4-2	SB LEFT ON ST. PAUL AT IL EB
8	Ø3	6'x6'	3	SB LEFT ON ST. PAUL AT IL EB
404	Ø4	EXISTING	-	RETAIN EXISTING
608	Ø2	EXISTING	-	ADVANCE IL EB RAMP (RETAIN)
609	Ø2	EXISTING	-	ADVANCE IL EB RAMP (RETAIN)
610	Ø2	EXISTING	-	ADVANCE IL EB RAMP (RETAIN)
611	Ø2	EXISTING	-	ADVANCE IL EB RAMP (RETAIN)
405	Ø3	EXISTING	-	ADVANCE CUMBERLAND (RETAIN)
23402	Ø3	EXISTING	-	ADVANCE CUMBERLAND (RETAIN)
23401	Ø1	EXISTING	-	RETAIN EXISTING

TABLE OF CLEARANCES

TO \ FROM	G	R	R (~~G~~)	G (~~G~~)	R G
G	-		R	G	R
	G	R	(~~Y~~)	(~~Y~~)	Y
R			R	Y	R
	Y	R	(~~Y~~)	(~~Y~~)	Y
~~G~~			R	Y	
	Y	R	(~~G~~)	(~~G~~)	
~~G~~►					R
	Y	R			G
◄~~G~~			R	G	
	G	R	(~~G~~)	(~~G~~)	

TABLE OF OPERATIONS

PHASE	FACE 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	PED A	PED B	PED C
1	G	G	G	G	R	R	R	↑G	↑G	G	G	R	R	R	R	R	MAN•	HAND	HAND
2	R	R	◄~~G~~	G	R	R	R	R	R	R	R	R	R	G	G	G	HAND	HAND••	HAND
3	R	R	R	R	G	G	◄~~G~~	↑G	↑G	R	R	R	R	R	R	R	HAND	HAND	HAND••
4	G	G	G	G	R	R	R	↑G	↑G	R	R	G	G	R	R	R	HAND	HAND	HAND
FLASHING OPERATION	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR	DARK	DARK	DARK

• THIS INDICATION SHALL BE "MAN" FOLLOWED BY "FLASHING HAND"

•• THIS INDICATION SHALL BE "MAN" FOLLOWED BY "FLASHING HAND" UPON ACTIVATION OF THE PEDESTRIAN PUSH BUTTON

REV	DESCRIPTION	DATE	BY
7			
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FA PROJECT NO.
121033

PROJECT MANAGER
R. BENNETT

DRAWN BY
T. DAVIS

SCALE
AS SHOWN

ISSUE DATE
JULY 2014

STATE OF NEW YORK
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PROJECT
CENTER CITY TWO-WAY CONVERSION
SAINT PAUL STREET AND NORTH CLINTON AVENUE
BETWEEN EAST MAIN STREET AND CUMBERLAND STREET
PIN:13102
CITY OF ROCHESTER, MONROE COUNTY, NEW YORK

TITLE OF DRAWING
TRAFFIC SIGNAL PLAN

DRAWING NO.
TSP-02

SHEET 59 OF 69

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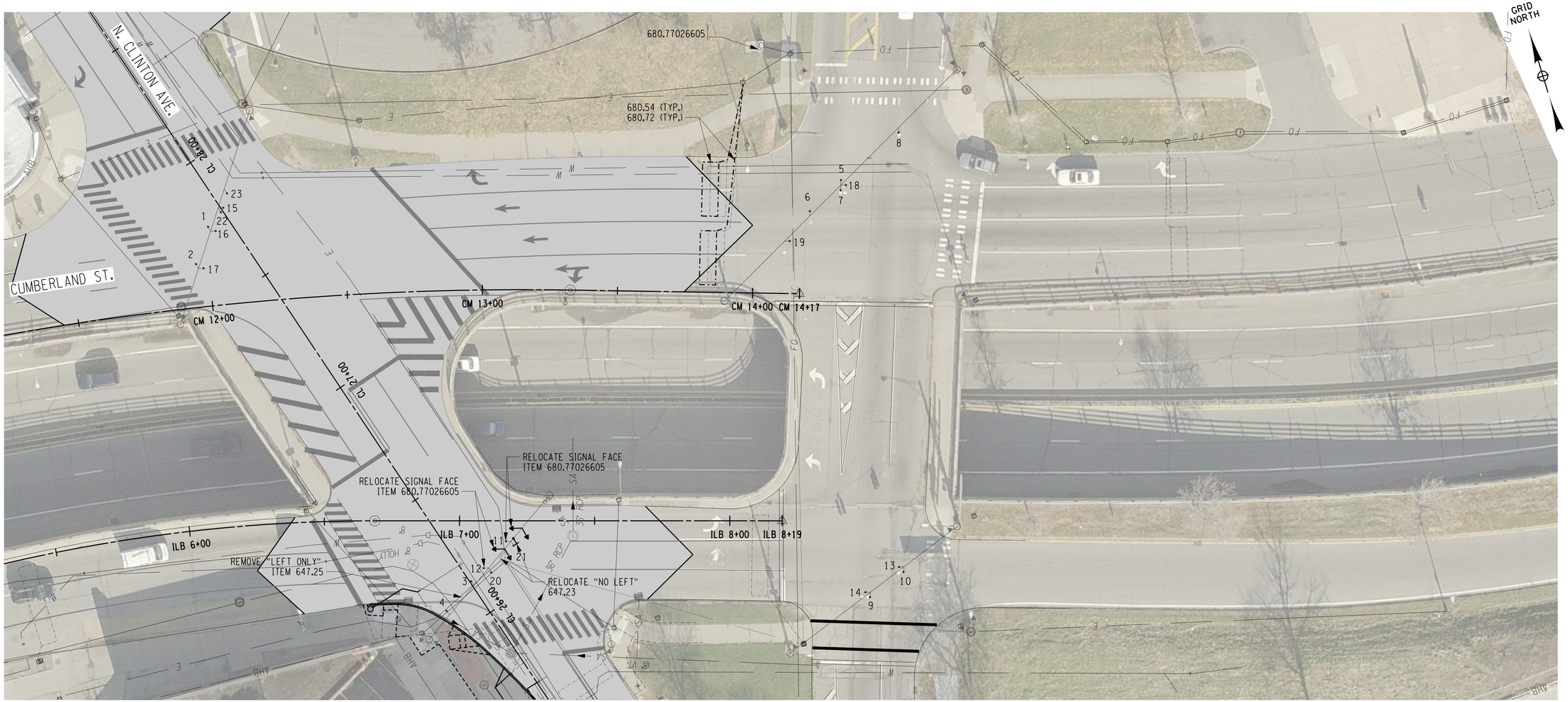

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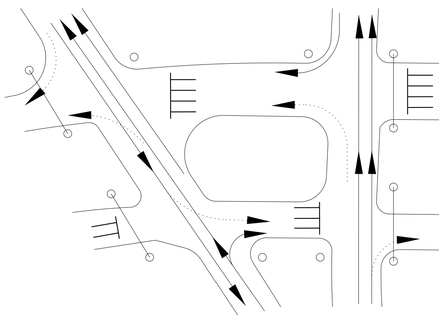

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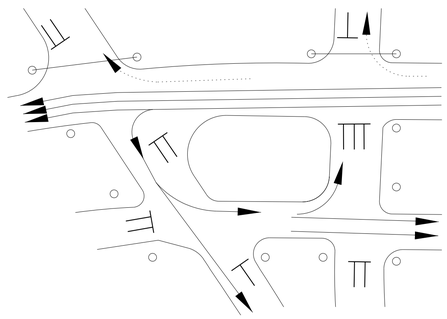

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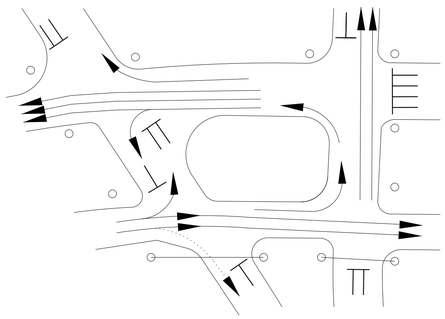

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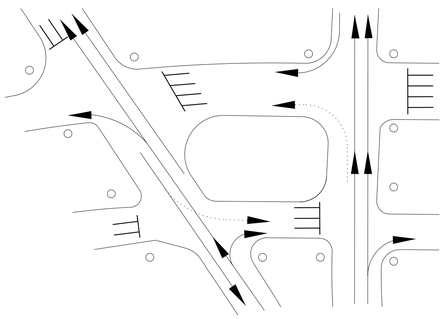

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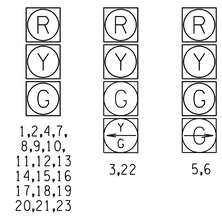

SIGNAL FACE DISPLAY

SCALE (FT)
0 10 20 40

REV	DESCRIPTION	DATE	BY
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FA PROJECT NO.
121033

PROJECT MANAGER
R. BENNETT

DRAWN BY
T. DAVIS

SCALE
AS SHOWN

ISSUE DATE
JULY 2014

STATE OF NEW YORK
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PROJECT
CENTER CITY TWO-WAY CONVERSION
SAINT PAUL STREET AND NORTH CLINTON AVENUE
BETWEEN EAST MAIN STREET AND CUMBERLAND STREET
PIN:13102
CITY OF ROCHESTER, MONROE COUNTY, NEW YORK

TITLE OF DRAWING
TRAFFIC SIGNAL PLAN

DRAWING NO.
TSP-03

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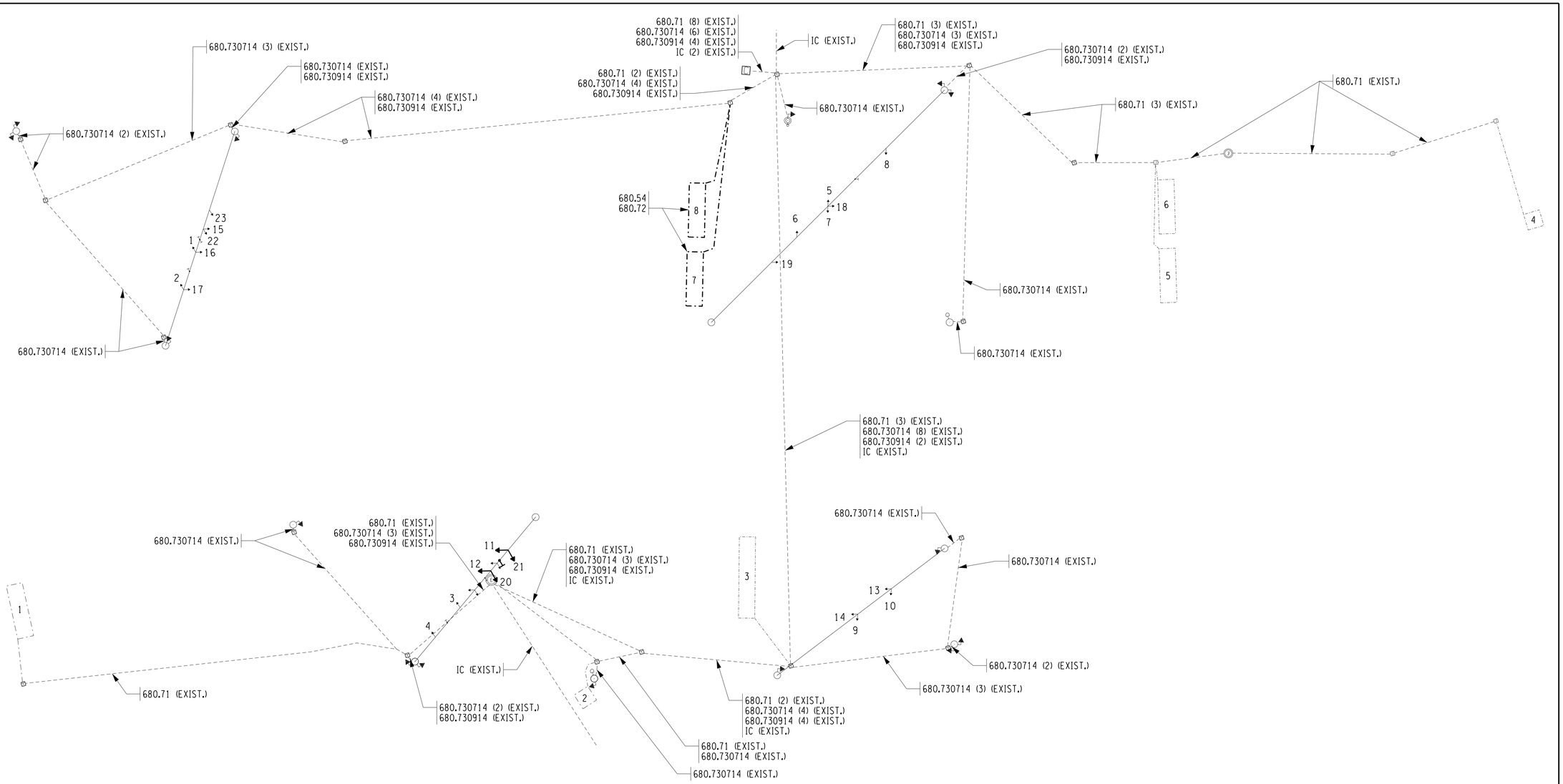

WIRING DIAGRAM

TABLE OF OPERATIONS

PHASE	FACE																							PED A	PED B	PED C
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
1	G	G	G	G	~~G~~►	~~G~~►	G	G	G	G	R	R	R	R	R	R	R	R	R	G	G	G	G	MAN•	HAND	HAND
2	R	R	◄~~G~~	G	R	R	R	R	R	R	R	R	G	G	G	G	G	G	G	R	R	R	R	HAND	HAND••	HAND
3	R	R	R	R	R	R	G	G	R	R	G	G	G	G	G	G	R	R	R	R	R	R	R	HAND	HAND	HAND••
4	R	R	G	G	~~G~~►	~~G~~►	G	G	G	G	R	R	R	R	R	R	R	R	R	G	G	◄~~G~~	G	HAND	HAND	HAND
FLASHING OPERATION	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR	DARK	DARK	DARK

- THIS INDICATION SHALL BE "MAN" FOLLOWED BY "FLASHING HAND"
- •• THIS INDICATION SHALL BE "MAN" FOLLOWED BY "FLASHING HAND" UPON ACTIVATION OF THE PEDESTRIAN PUSH BUTTON

TABLE OF CLEARANCES

TO \ FROM	G	R	R ◄~~G~~	G ◄~~G~~	R G
	-		R	G	R
G	G	R	◄~~Y~~	◄~~Y~~	Y
			R	Y	R
R	Y	R	◄~~Y~~	◄~~Y~~	Y
R			R	Y	
◄~~G~~	Y	R	◄~~G~~	◄~~G~~	
R					R
~~G~~►	Y	R			G
G			R	G	
◄~~G~~	G	R	◄~~G~~	◄~~G~~	

TABLE OF INDUCTANCE LOOP DESIGN

DETECTOR NUMBER	PHASE NUMBER	INDUCTANCE LOOP SIZE	NUMBER OF TURNS	NOTES
1	-	EXISTING		RETAIN EXISTING
2	-	EXISTING		REMOVE EXISTING
3	-	EXISTING		RETAIN EXISTING
4	-	EXISTING		RETAIN EXISTING
5	-	EXISTING		RETAIN EXISTING
6	-	EXISTING		RETAIN EXISTING
7	-	6'x20'	3	REPLACE EXISTING
8	-	6'x20'	3	REPLACE EXISTING

TABLE OF QUANTITIES

ITEM NUMBER	DESCRIPTION	UNIT	ESTIMATED QUANTITY	FINAL QUANTITY
647.23	RELOCATE OVERHEAD SIGN PANEL, SIGN PANEL ASSEMBLY	EA	1	
647.25	REMOVE AND DISPOSE OVERHEAD SIGN PANEL, SIGN PANEL ASSEMBLY	EA	1	
680.54	INDUCTANCE LOOP INSTALLATION	LF	140	
680.72	INDUCTANCE LOOP WIRE	LF	400	
680.77026605	MODIFY TRAFFIC SIGNAL INSTALLATION (NO. 266)	EA	1	

REV	DESCRIPTION	DATE	BY
7			
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FA PROJECT NO.
121033
PROJECT MANAGER
R. BENNETT
DRAWN BY
T. DAVIS
SCALE
AS SHOWN
ISSUE DATE
JULY 2014

STATE OF NEW YORK
RICHARD CHARLES BENNETT
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PROJECT
CENTER CITY TWO-WAY CONVERSION
SAINT PAUL STREET AND NORTH CLINTON AVENUE
BETWEEN EAST MAIN STREET AND CUMBERLAND STREET
PIN:13102
CITY OF ROCHESTER, MONROE COUNTY, NEW YORK

TITLE OF DRAWING
TRAFFIC SIGNAL PLAN

DRAWING NO.
TSP-04

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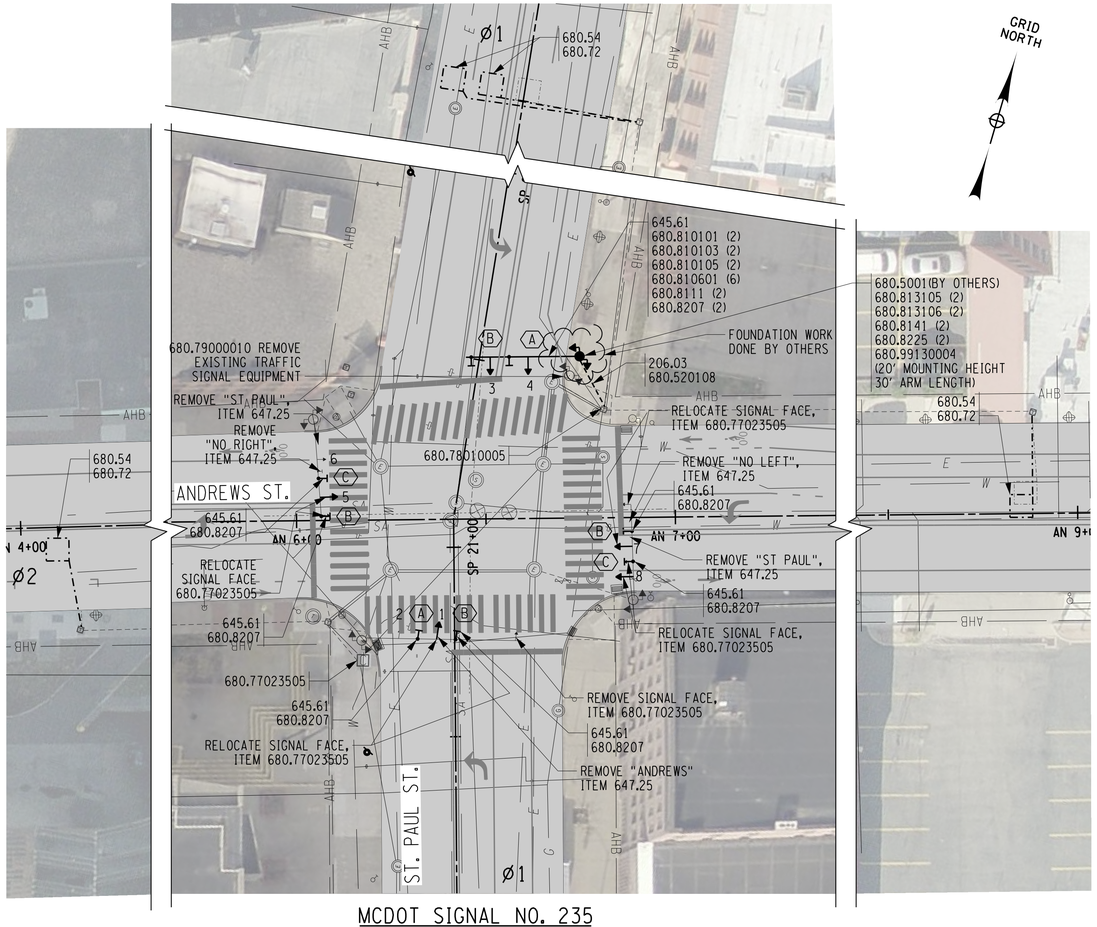

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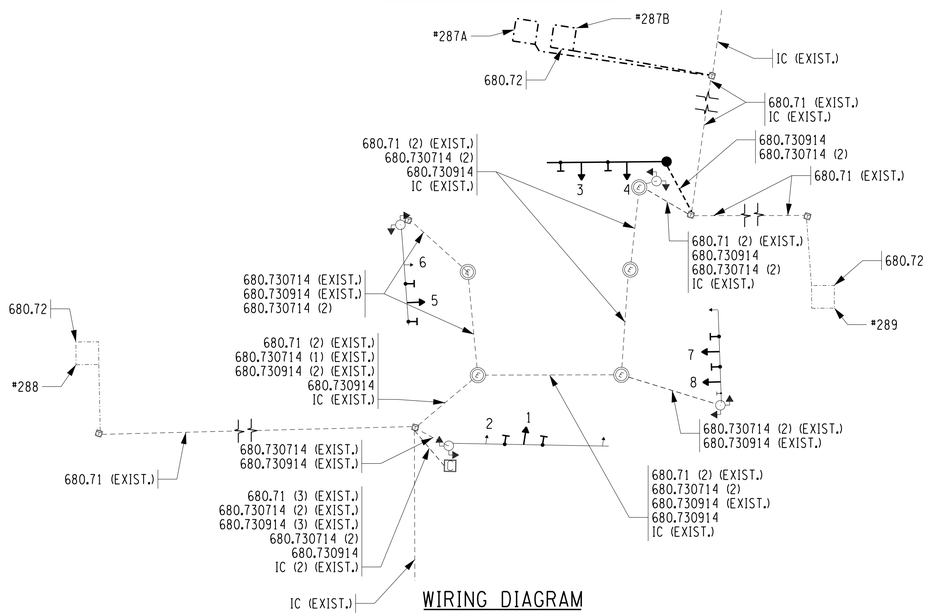


WIRING DIAGRAM

A
Andrews
D3-1
20"x72"

B
ONLY
R3-5L
30"x36"

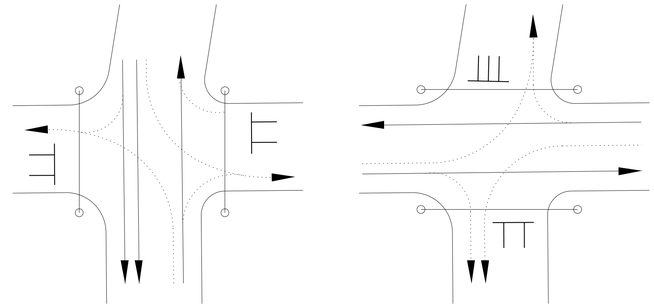
C
St. Paul
D3-1
20"x72"

OVERHEAD SIGN FACE DISPLAY

R
Y
G

1,2,3,4,
5,6,7,8

SIGNAL FACE DISPLAY



PHASE DIAGRAM

TABLE OF OPERATIONS										
PHASE	FACE								PED A	PED B
	1	2	3	4	5	6	7	8		
1	G	G	G	G	R	R	R	R	MAN•	HAND
2	R	R	R	R	G	G	G	G	HAND	MAN•
FLASHING OPERATION	FY	FY	FY	FY	FR	FR	FR	FR	DARK	DARK

• THIS INDICATION SHALL BE "MAN" FOLLOWED BY "FLASHING HAND"

TABLE OF QUANTITIES				
ITEM NUMBER	DESCRIPTION	UNIT	ESTIMATED QUANTITY	FINAL QUANTITY
206.03	CONDUIT EXCAVATION AND BACKFILL INCLUDING SURFACE RESTORATION	LF	14	
645.61	OVERHEAD SIGN PANELS	SF	70	
647.25	REMOVE AND DISPOSE OVERHEAD SIGN PANEL, SIGN PANEL ASSEMBLY	EA	5	
680.5001	POLE EXCAVATION AND CONCRETE FOUNDATION	CY	4.8	
680.520108	CONDUIT, METAL STEEL, ZINC COATED, 3"	LF	14	
680.54	INDUCTANCE LOOP INSTALLATION	LF	177	
680.72	INDUCTANCE LOOP WIRE	LF	482	
680.730714	SIGNAL CABLE 7 CONDUCTORS, 14 AWG	EA	370	
680.730914	SIGNAL CABLE 9 CONDUCTORS, 14 AWG	LF	263	
680.77023505	MODIFY TRAFFIC SIGNAL INSTALLATION (NO. 235)	EA	1	
680.78010005	ALTER PULLBOX FOR CONDUITS	EA	1	
680.79000010	REMOVE TRAFFIC SIGNAL EQUIPMENT	LS	1	
680.810101	TRAFFIC SIGNAL MODULE - 12 INCH, RED BALL, LED	EA	2	
680.810103	TRAFFIC SIGNAL MODULE - 12 INCH, YELLOW BALL, LED	EA	2	
680.810105	TRAFFIC SIGNAL MODULE - 12 INCH, GREEN BALL, LED	EA	2	
680.810601	TRAFFIC SIGNAL SECTION - POLYCARBONATE, TYPE I, 12 INCH	EA	6	
680.813105	PEDESTRIAN SIGNAL MODULE - 16" BY 18" BI-MODAL HAND/MAN LED	EA	2	
680.813106	PEDESTRIAN SIGNAL MODULE - POLYCARBONATE, TYPE 1, 12 INCH	EA	2	
680.8141	PEDESTRIAN SIGNAL BRACKET MOUNT ASSEMBLY	EA	2	
680.8225	PEDESTRIAN PUSH BUTTON AND SIGN - WITHOUT POST	EA	2	
680.8111	TRAFFIC SIGNAL BRACKET ASSEMBLY - 1 WAY	EA	2	
680.8207	OVERHEAD SIGN ASSEMBLY, TYPE G	EA	8	
680.99130004	INSTALL TRAFFIC SIGNAL POLE - MAST ARM	EA	1	

DONE BY OTHERS

TABLE OF CLEARANCES		
TO	FROM	
	G	R
G	G	R
	G	R
R	Y	R
	R	R

TABLE OF INDUCTANCE LOOP DESIGN			
DETECTOR NUMBER	PHASE NUMBER	INDUCTANCE LOOP SIZE	NUMBER OF TURNS
287A	ø1	6'x6'	3
287B	ø1	6'x6'	3
288	ø2	6'x6'	3
289	ø2	6'x6'	3

REV	DESCRIPTION	DATE	BY
7			
6			
5			
4			
3			
2			
1			

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If an item bearing the seal of an engineer, land surveyor, and interior designer is altered, the altering engineer, land surveyor, and interior designer shall affix to the item his/her seal and his/her signature and the date of such alteration, and a specific description of the alteration.

FA PROJECT NO.
121033
PROJECT MANAGER
R. BENNETT
DRAWN BY
T. DAVIS
SCALE
AS SHOWN
ISSUE DATE
JULY 2014

STATE OF NEW YORK
GREGORY CHARLES DAVIS
084070
REGISTERED PROFESSIONAL ENGINEER

FISHER ASSOCIATES
WWW.FISHERASSOC.COM
135 Celtic Road, Rochester NY 14623
Phone 585-334-3120

PROJECT
CENTER CITY TWO-WAY CONVERSION
SAINT PAUL STREET AND NORTH CLINTON AVENUE
BETWEEN EAST MAIN STREET AND CUMBERLAND STREET
PIN:13102
CITY OF ROCHESTER, MONROE COUNTY, NEW YORK
TITLE OF DRAWING
TRAFFIC SIGNAL PLAN

DRAWING NO.
TSP-05

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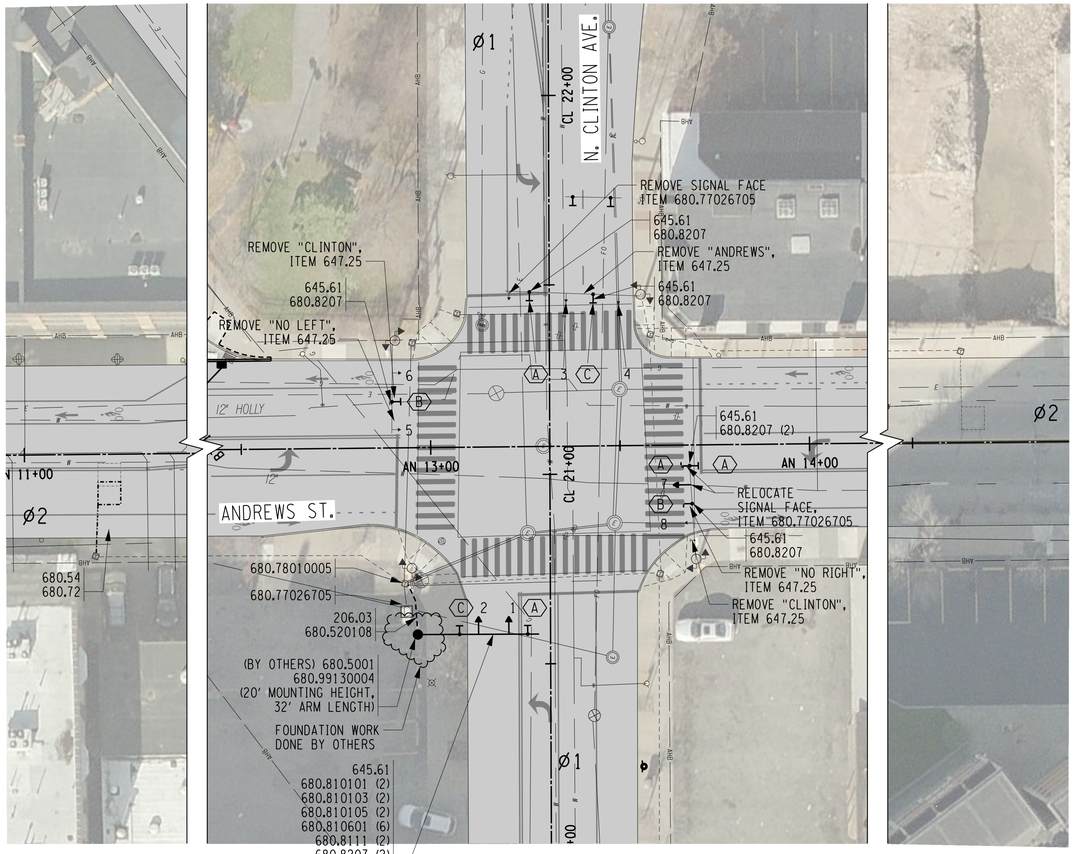
Craig



MCDOT SIGNAL NO. 267

SCALE (FT)
0 10 20 40

GRID NORTH

A
ONLY
R3-5L
30"x36"

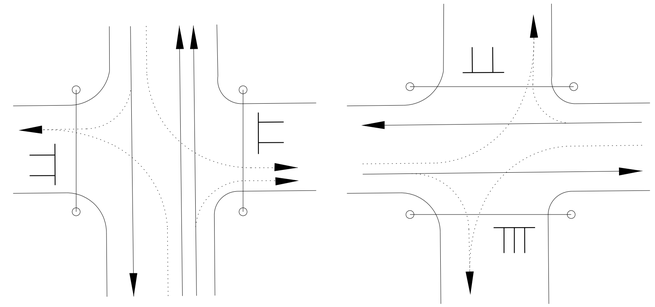
B
Clinton
D3-1
20"x72"

C
Andrews
D3-1
20"x72"

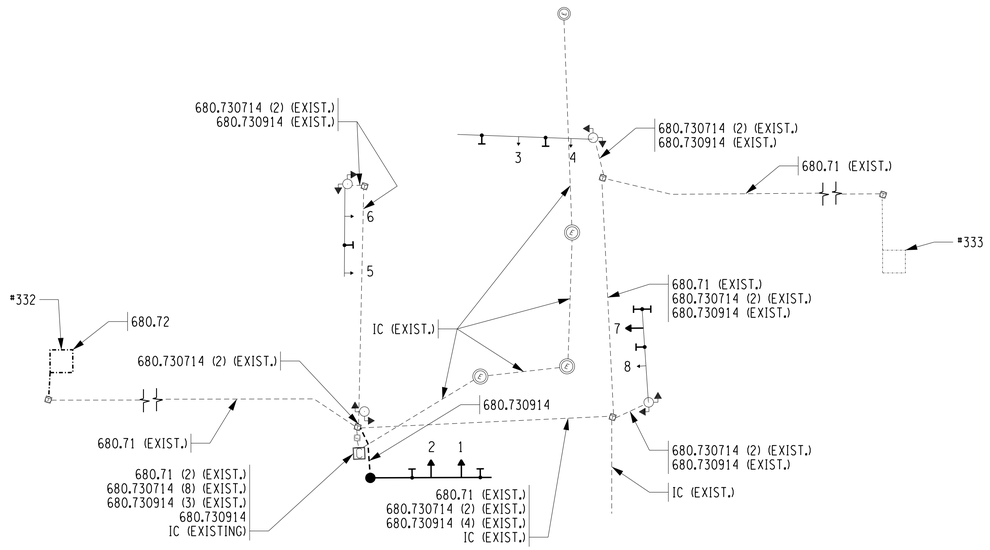
OVERHEAD SIGN FACE DISPLAY

R
Y
G
1,2,3,4,
5,6,7,8

SIGNAL FACE DISPLAY



PHASE DIAGRAM



WIRING DIAGRAM

TABLE OF OPERATIONS										
PHASE	FACE								PED A	PED B
	1	2	3	4	5	6	7	8		
1	G	G	G	G	R	R	R	R	MAN•	HAND
2	R	R	R	R	G	G	G	G	HAND	MAN•
FLASHING OPERATION	FY	FY	FY	FY	FR	FR	FR	FR	DARK	DARK

• THIS INDICATION SHALL BE "MAN" FOLLOWED BY "FLASHING HAND"

DONE BY OTHERS

TABLE OF QUANTITIES				
ITEM NUMBER	DESCRIPTION	UNIT	ESTIMATED QUANTITY	FINAL QUANTITY
206.03	CONDUIT EXCAVATION AND BACKFILL INCLUDING SURFACE RESTORATION	LF	14	
645.61	OVERHEAD SIGN PANELS	SF	70	
647.25	REMOVE AND DISPOSE OVERHEAD SIGN PANEL, SIGN PANEL ASSEMBLY	EA	5	
680.5001	POLE EXCAVATION AND CONCRETE FOUNDATION	CY	4.8	
680.520108	CONDUIT, METAL STEEL, ZINC COATED, 3"	LF	14	
680.54	INDUCTANCE LOOP INSTALLATION	LF	27	
680.72	INDUCTANCE LOOP WIRE	LF	86	
680.730914	SIGNAL CABLE 9 CONDUCTORS, 14 AWG	LF	127	
680.77026705	MODIFY TRAFFIC SIGNAL INSTALLATION (NO. 267)	EA	1	
680.78010005	ALTER PULLBOX FOR CONDUITS	EA	1	
680.810101	TRAFFIC SIGNAL MODULE - 12 INCH, RED BALL, LED	EA	2	
680.810103	TRAFFIC SIGNAL MODULE - 12 INCH, YELLOW BALL, LED	EA	2	
680.810105	TRAFFIC SIGNAL MODULE - 12 INCH, GREEN BALL, LED	EA	2	
680.810601	TRAFFIC SIGNAL SECTION - POLYCARBONATE, TYPE I, 12 INCH	EA	6	
680.8111	TRAFFIC SIGNAL BRACKET ASSEMBLY - 1 WAY	EA	2	
680.8207	OVERHEAD SIGN ASSEMBLY, TYPE G	EA	8	
680.99130004	INSTALL TRAFFIC SIGNAL POLE - MAST ARM	EA	1	

TABLE OF CLEARANCES		
TO	FROM	
	G	R
G	G	R
	G	R
R	Y	R
	R	R

TABLE OF INDUCTANCE LOOP DESIGN				
DETECTOR NUMBER	PHASE NUMBER	INDUCTANCE LOOP SIZE	NUMBER OF TURNS	NOTES
332	ø2	6'x6'	3	
333	ø2	6'x6'	3	RETAIN EXISTING

REV	DESCRIPTION	DATE	BY
7			
6			
5			
4			
3			
2			
1			

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FA PROJECT NO.
121033
PROJECT MANAGER
R. BENNETT
DRAWN BY
T. DAVIS
SCALE
AS SHOWN
ISSUE DATE
JULY 2014

FISHERASSOCIATES
WWW.FISHERASSOC.COM
135 Calkins Road, Rochester, NY 14623
Phone: 585-334-3170

PROJECT
CENTER CITY TWO-WAY CONVERSION
SAINT PAUL STREET AND NORTH CLINTON AVENUE
BETWEEN EAST MAIN STREET AND CUMBERLAND STREET
PIN:13102
CITY OF ROCHESTER, MONROE COUNTY, NEW YORK

TITLE OF DRAWING
TRAFFIC SIGNAL PLAN

DRAWING NO.
TSP-06

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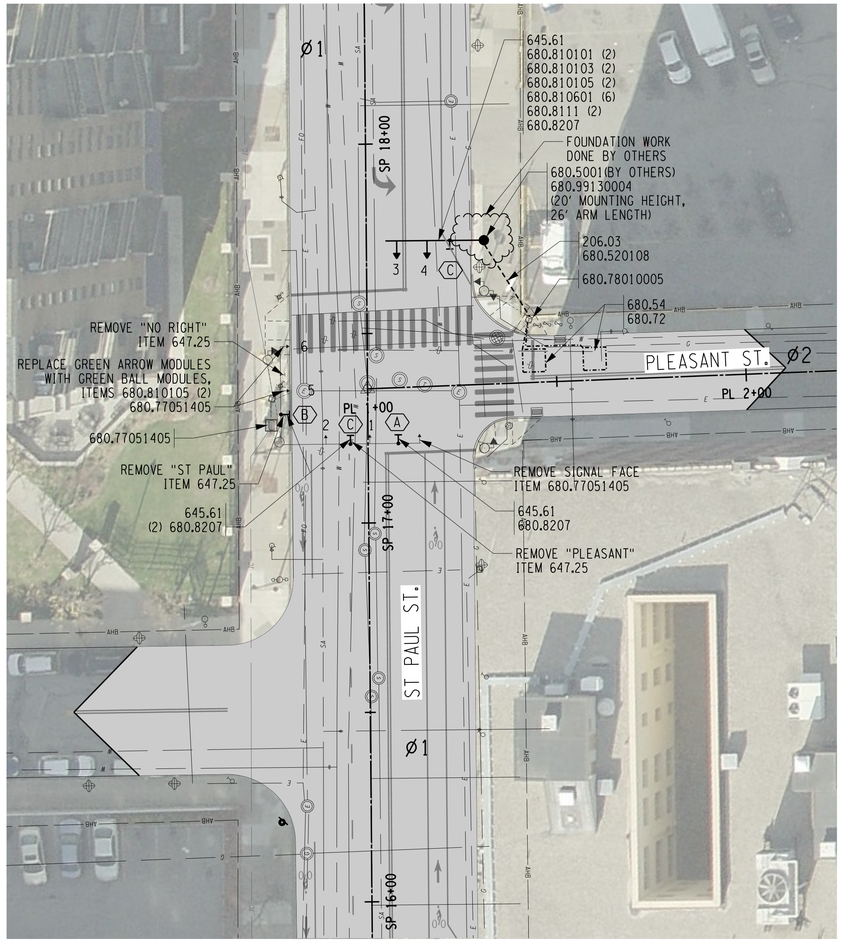
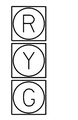
Craig

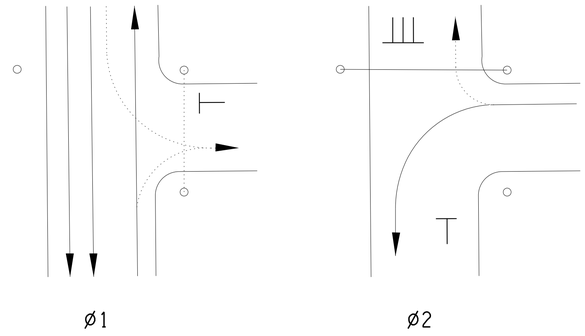


MCDOT SIGNAL NO. 514

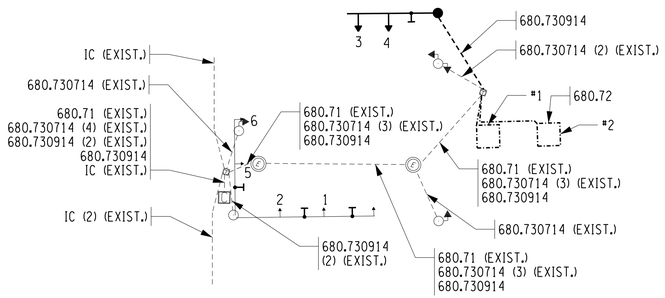
OVERHEAD SIGN FACE DISPLAY



SIGNAL FACE DISPLAY



PHASE DIAGRAM



WIRING DIAGRAM

TABLE OF OPERATIONS								
PHASE	FACE						PED	PED
	1	2	3	4	5	6	A	B
1	G	G	G	G	R	R	MAN•	HAND
2	R	R	R	R	G	G	HAND	HAND••
FLASHING OPERATION	FY	FY	FY	FY	FR	FR	DARK	DARK

• THIS INDICATION SHALL BE "MAN" FOLLOWED BY "FLASHING HAND"

•• THIS INDICATION SHALL BE "MAN" FOLLOWED BY "FLASHING HAND" UPON ACTIVATION OF THE PEDESTRIAN PUSH BUTTON

TABLE OF QUANTITIES				
ITEM NUMBER	DESCRIPTION	UNIT	ESTIMATED QUANTITY	FINAL QUANTITY
206.03	CONDUIT EXCAVATION AND BACKFILL INCLUDING SURFACE RESTORATION	LF	23	
645.61	OVERHEAD SIGN PANELS	SF	37.5	
647.25	REMOVE AND DISPOSE OVERHEAD SIGN PANEL, SIGN PANEL ASSEMBLY	EA	3	
680.5001	POLE EXCAVATION AND CONCRETE FOUNDATION	CY	4.8	
680.520108	CONDUIT, METAL STEEL, ZINC COATED, 3"	LF	23	
680.54	INDUCTANCE LOOP INSTALLATION	LF	70	
680.72	INDUCTANCE LOOP WIRE	LF	204	
680.730914	SIGNAL CABLE 9 CONDUCTORS, 14 AWG	LF	213	
680.77051405	MODIFY TRAFFIC SIGNAL INSTALLATION (NO. 514)	EA	1	
680.78010005	ALTER PULLBOX FOR CONDUITS	EA	1	
680.810101	TRAFFIC SIGNAL MODULE - 12 INCH, RED BALL, LED	EA	2	
680.810103	TRAFFIC SIGNAL MODULE - 12 INCH, YELLOW BALL, LED	EA	2	
680.810105	TRAFFIC SIGNAL MODULE - 12 INCH, GREEN BALL, LED	EA	4	
680.810601	TRAFFIC SIGNAL SECTION - POLYCARBONATE, TYPE I, 12 INCH	EA	6	
680.8111	TRAFFIC SIGNAL BRACKET ASSEMBLY - 1 WAY	EA	2	
680.8207	OVERHEAD SIGN ASSEMBLY, TYPE G	EA	4	
680.99130004	INSTALL TRAFFIC SIGNAL POLE - MAST ARM	EA	1	

DONE BY OTHERS

TABLE OF CLEARANCES		
TO	FROM	
	G	R
G	G	R
	G	R
R	Y	R
	R	R

TABLE OF INDUCTANCE LOOP DESIGN				
DETECTOR NUMBER	PHASE NUMBER	INDUCTANCE LOOP SIZE	NUMBER OF TURNS	NOTES
1	Ø2	6'x6'	3	
2	Ø2	6'x6'	3	

REV	DESCRIPTION	DATE	BY
7			
6			
5			
4			
3			
2			
1			

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FA PROJECT NO.
121033
PROJECT MANAGER
R. BENNETT
DRAWN BY
T. DAVIS
SCALE
AS SHOWN
ISSUE DATE
JULY 2014

STATE OF NEW YORK
ROBERT CHARLES BENNETT
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PROJECT
CENTER CITY TWO-WAY CONVERSION
SAINT PAUL STREET AND NORTH CLINTON AVENUE
BETWEEN EAST MAIN STREET AND CUMBERLAND STREET
PIN:13102
CITY OF ROCHESTER, MONROE COUNTY, NEW YORK

TITLE OF DRAWING
TRAFFIC SIGNAL PLAN

DRAWING NO.
TSP-07

SHEET 64 OF 69

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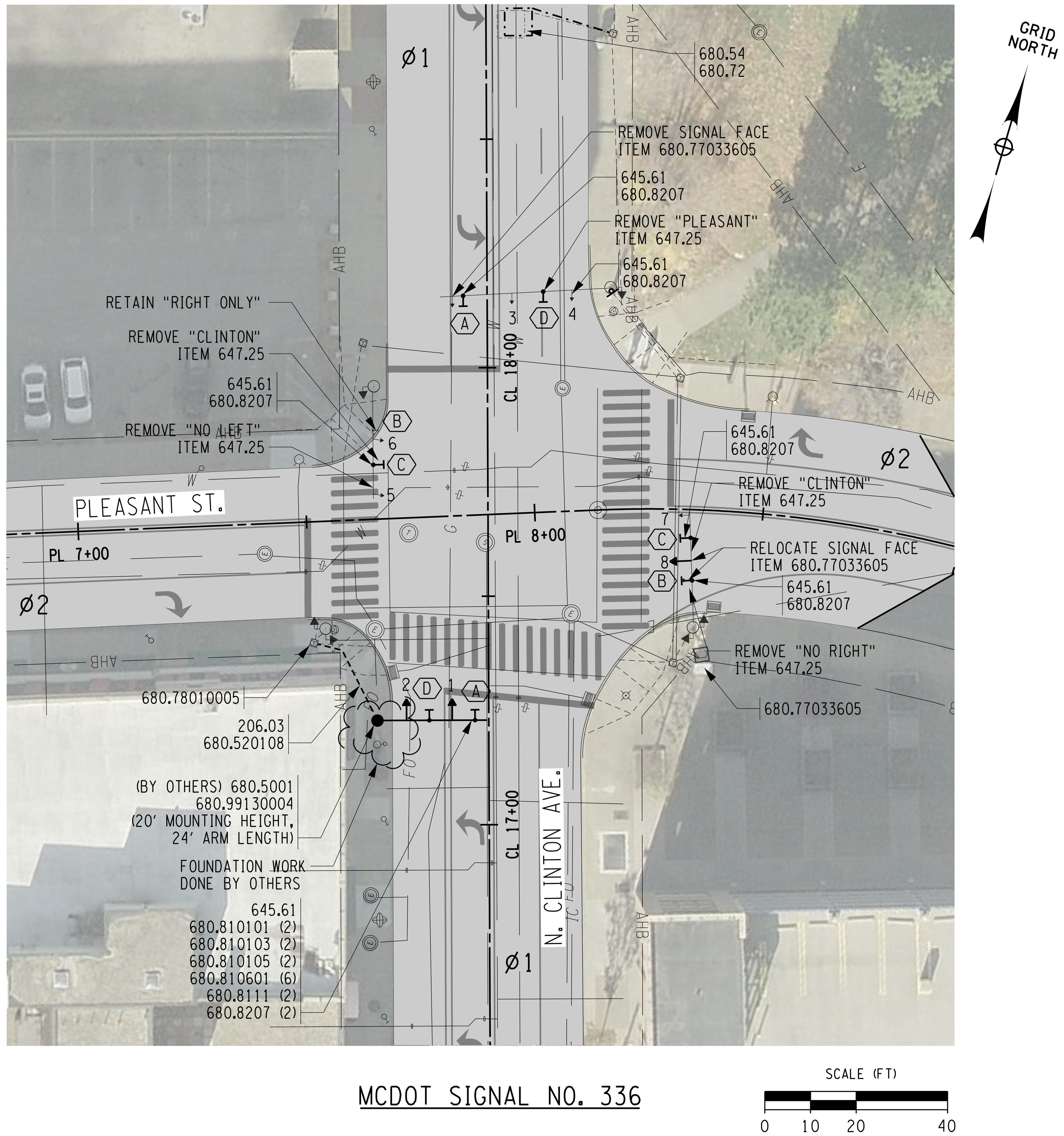
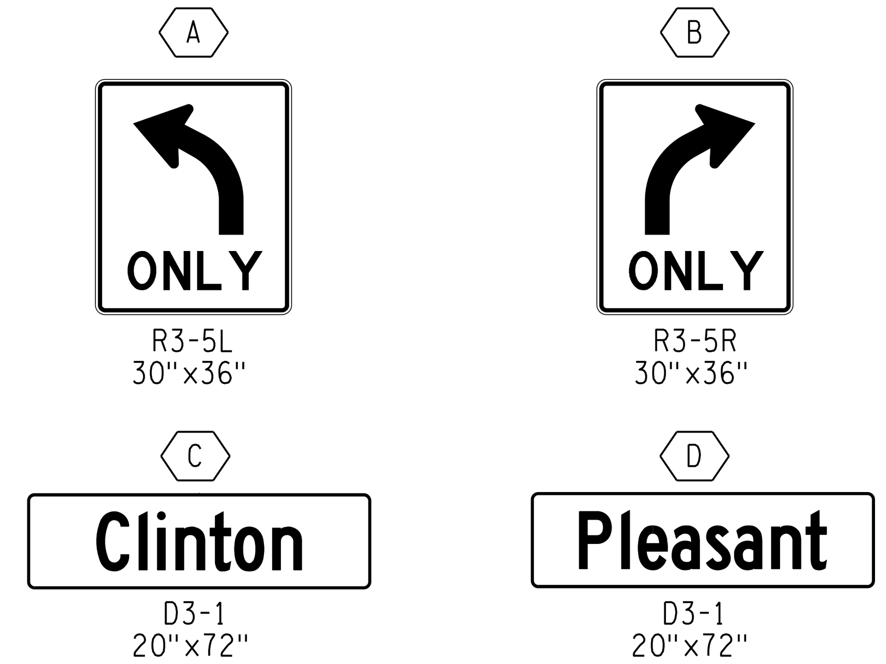
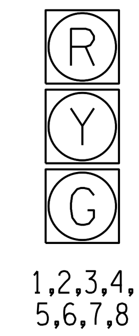
Craig



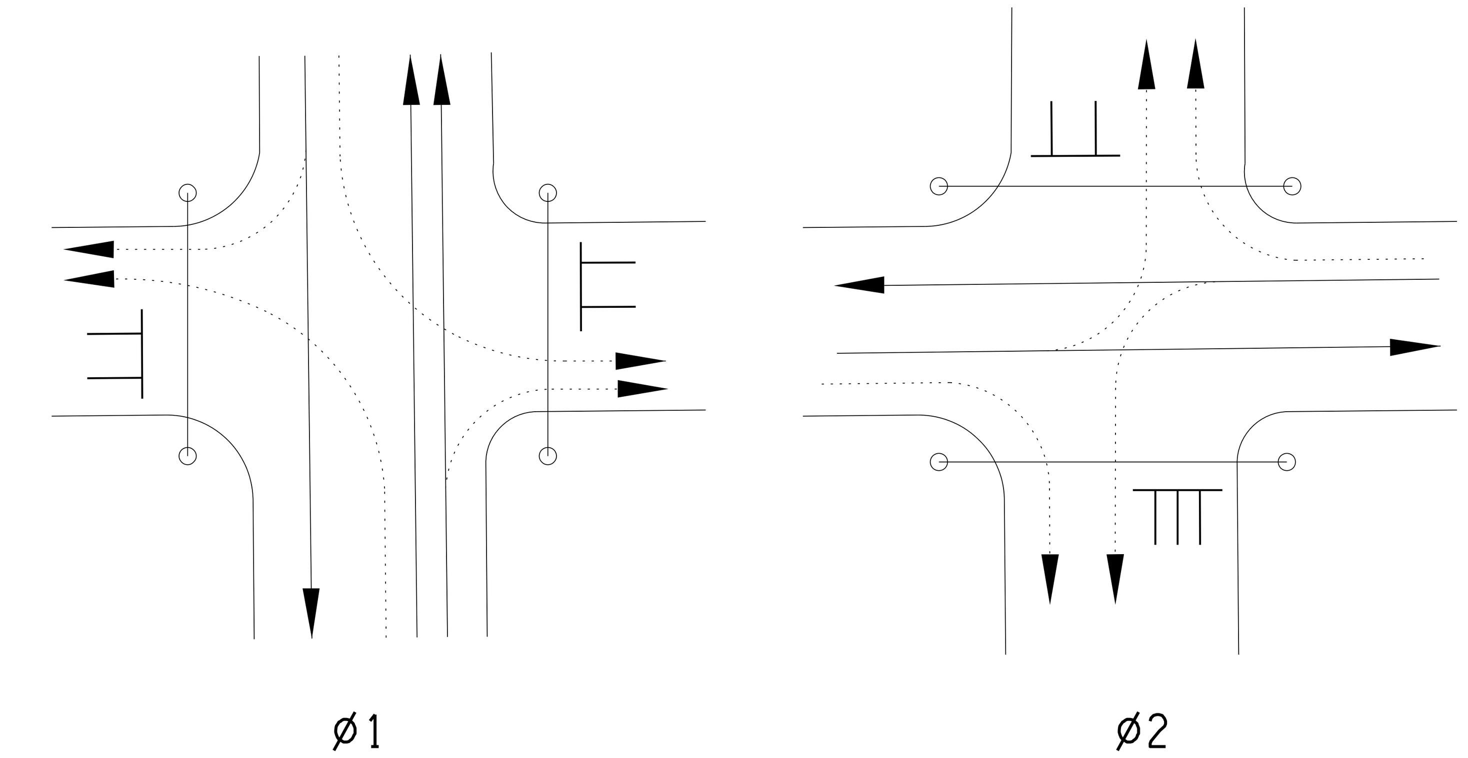
MCDOT SIGNAL NO. 336



OVERHEAD SIGN FACE DISPLAY



SIGNAL FACE DISPLAY



PHASE DIAGRAM

TABLE OF OPERATIONS

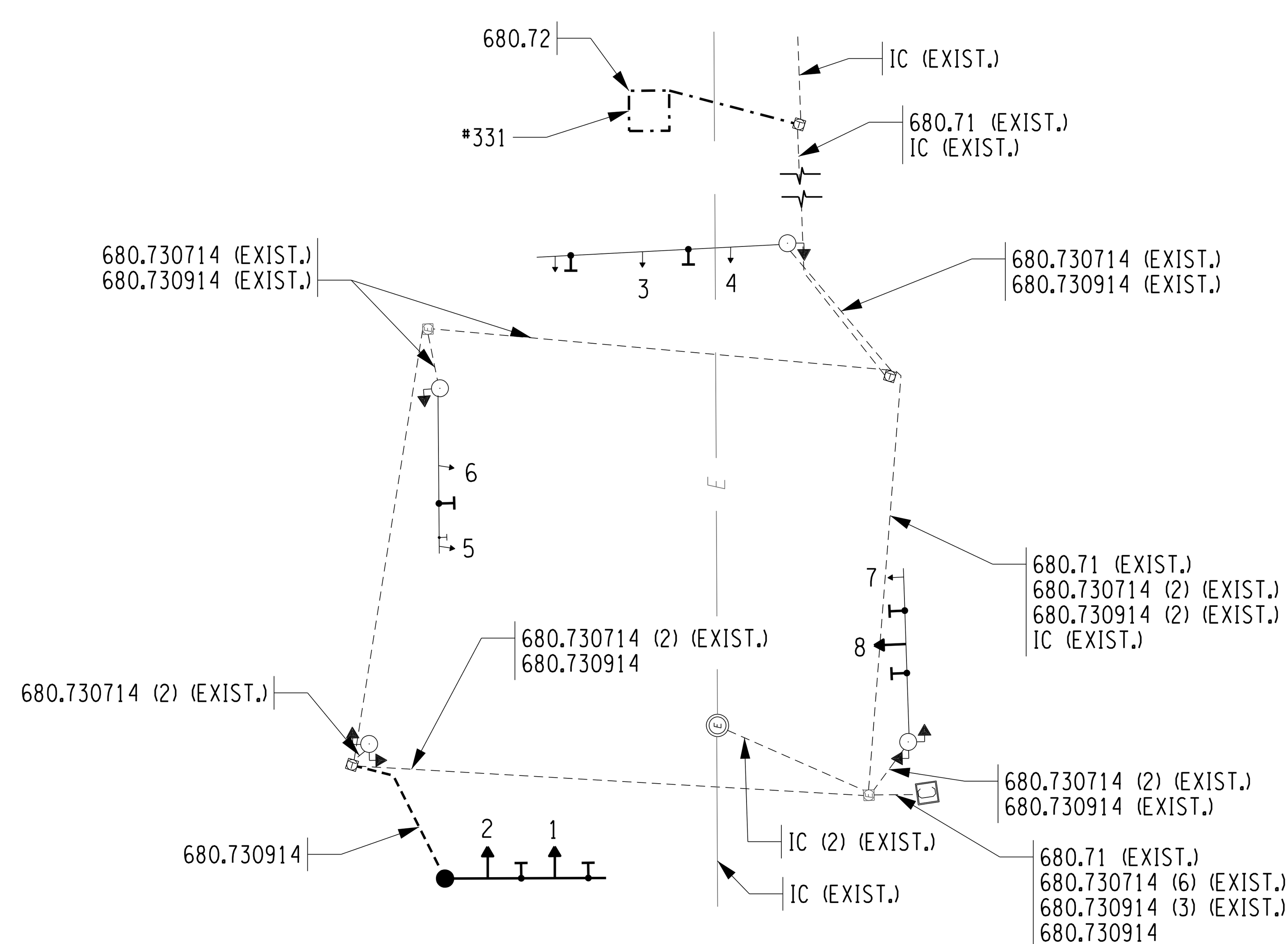
PHASE	FACE 1	2	3	4	5	6	7	8	PED A	PED B
1	G	G	G	G	R	R	R	R	MAN•	HAND
2	R	R	R	R	G	G	G	G	HAND	MAN•
FLASHING OPERATION	FY	FY	FY	FY	FR	FR	FR	FR	DARK	DARK

• THIS INDICATION SHALL BE "MAN" FOLLOWED BY "FLASHING HAND"

TABLE OF QUANTITIES

ITEM NUMBER	DESCRIPTION	UNIT	ESTIMATED QUANTITY	FINAL QUANTITY
206.03	CONDUIT EXCAVATION AND BACKFILL INCLUDING SURFACE RESTORATION	LF	23	
645.61	OVERHEAD SIGN PANELS	SF	62.5	
647.25	REMOVE AND DISPOSE OVERHEAD SIGN PANEL, SIGN PANEL ASSEMBLY	EA	5	
680.5001	POLE EXCAVATION AND CONCRETE FOUNDATION	CY	4.8	
680.520108	CONDUIT, METAL STEEL, ZINC COATED, 3"	LF	23	
680.54	INDUCTANCE LOOP INSTALLATION	LF	38	
680.72	INDUCTANCE LOOP WIRE	LF	108	
680.730914	SIGNAL CABLE 9 CONDUCTORS, 14 AWG	LF	-	
680.77033605	MODIFY TRAFFIC SIGNAL INSTALLATION (NO. 336)	EA	1	
680.78010005	ALTER PULLBOX FOR CONDUITS	EA	1	
680.810101	TRAFFIC SIGNAL MODULE - 12 INCH, RED BALL, LED	EA	2	
680.810103	TRAFFIC SIGNAL MODULE - 12 INCH, YELLOW BALL, LED	EA	2	
680.810105	TRAFFIC SIGNAL MODULE - 12 INCH, GREEN BALL, LED	EA	2	
680.810601	TRAFFIC SIGNAL SECTION - POLYCARBONATE, TYPE I, 12 INCH	EA	6	
680.8111	TRAFFIC SIGNAL BRACKET ASSEMBLY - 1 WAY	EA	2	
680.8207	OVERHEAD SIGN ASSEMBLY, TYPE G	EA	7	
680.99130004	INSTALL TRAFFIC SIGNAL POLE - MAST ARM	EA	1	

DONE BY OTHERS



WIRING DIAGRAM

TABLE OF CLEARANCES

TO	FROM G	FROM R
G	G	R
	G	R
R	Y	R
	R	R

TABLE OF INDUCTANCE LOOP DESIGN

DETECTOR NUMBER	PHASE NUMBER	INDUCTANCE LOOP SIZE	NUMBER OF TURNS	NOTES
331	SS	6'x6'	3	

REV	DESCRIPTION	DATE	BY
7			
6			
5			
4			
3			
2			
1			

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FA PROJECT NO. 121033
PROJECT MANAGER R. BENNETT
DRAWN BY T. DAVIS
SCALE AS SHOWN
ISSUE DATE JULY 2014

STATE OF NEW YORK · RICHARD CHARLES BENNETT · 084070 · LICENSED PROFESSIONAL ENGINEER

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PROJECT
CENTER CITY TWO-WAY CONVERSION
SAINT PAUL STREET AND NORTH CLINTON AVENUE
BETWEEN EAST MAIN STREET AND CUMBERLAND STREET
PIN:13102
CITY OF ROCHESTER, MONROE COUNTY, NEW YORK

TITLE OF DRAWING
TRAFFIC SIGNAL PLAN

DRAWING NO.
TSP-08

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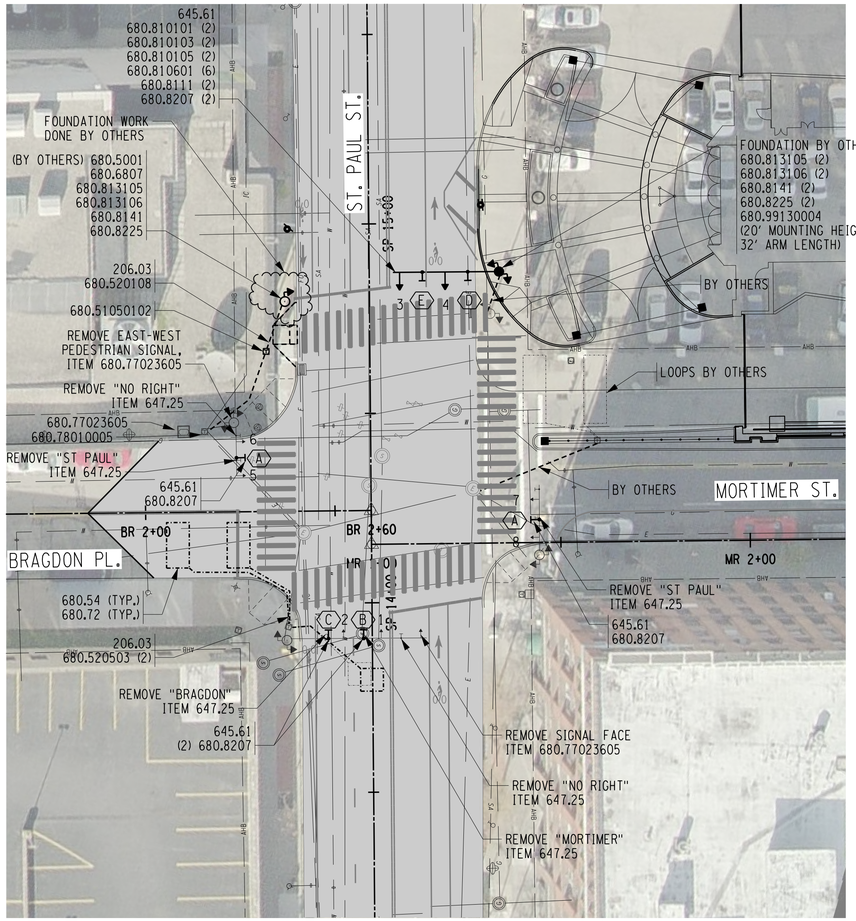
Craig



GRID NORTH

B
← Mortimer
D3-1
20"x96"

A
St. Paul
D3-1
20"x72"

C
Bragdon →
D3-1
20"x96"

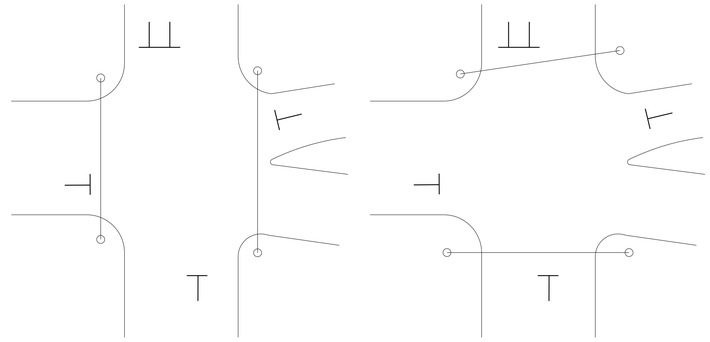
D
Mortimer →
D3-1
20"x96"

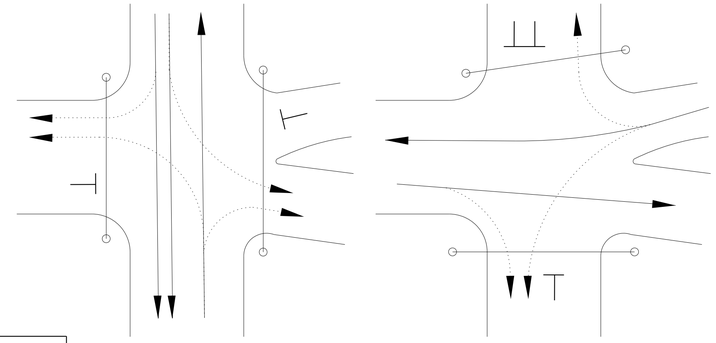
E
← Bragdon
D3-1
20"x96"

OVERHEAD SIGN FACE DISPLAY

R
Y
G
1,2,3,4,
5,6,7,8

SIGNAL FACE DISPLAY





PHASE DIAGRAMS

TABLE OF CLEARANCES		
TO	FROM G	FROM R
G	G	R
	G	R
R	Y	R
	R	R

TABLE OF INDUCTANCE LOOP DESIGN

DETECTOR NUMBER	PHASE NUMBER	INDUCTANCE LOOP SIZE	NUMBER OF TURNS	NOTES
1	ø2	6'x12'	3	
2	ø2	6'x12'	3	
3	ø2	6'x18'	3	BY OTHERS
4	ø2	6'x18'	3	BY OTHERS
365	SS	6'x6'	3	

MCDOT SIGNAL NO. 236

SCALE (FT)
0 10 20 40

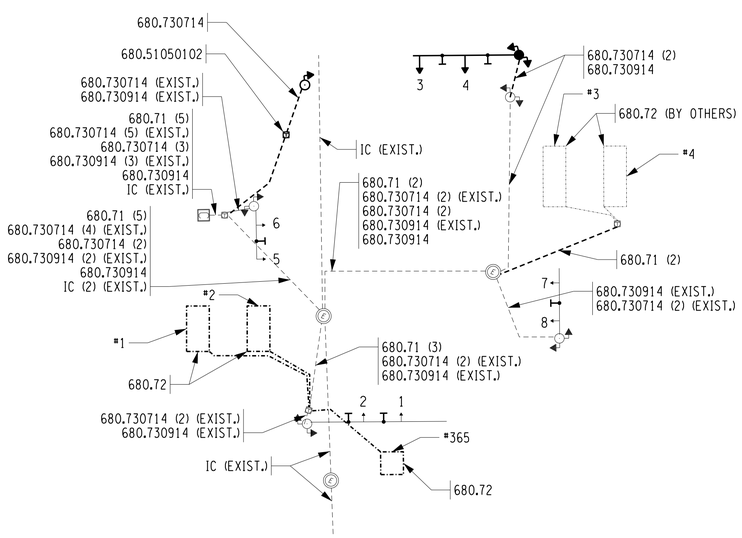


TABLE OF OPERATIONS										
PHASE	FACE 1	2	3	4	5	6	7	8	PED A	PED B
1	G	G	G	G	R	R	R	R	MAN•	HAND
2	R	R	R	R	G	G	G	G	HAND	HAND••
FLASHING OPERATION	FY	FY	FY	FY	FR	FR	FR	FR	DARK	DARK

• THIS INDICATION SHALL BE "MAN" FOLLOWED BY "FLASHING HAND"

•• THIS INDICATION SHALL BE "MAN" FOLLOWED BY "FLASHING HAND" UPON ACTIVATION OF THE PEDESTRIAN PUSH BUTTON

DONE BY OTHERS

TABLE OF QUANTITIES

ITEM NUMBER	DESCRIPTION	UNIT	ESTIMATED QUANTITY	FINAL QUANTITY
206.03	CONDUIT EXCAVATION AND BACKFILL INCLUDING SURFACE RESTORATION	LF	47	
645.61	OVERHEAD SIGN PANELS	SF	73.3	
647.25	REMOVE AND DISPOSE OVERHEAD SIGN PANEL, SIGN PANEL ASSEMBLY	EA	6	
680.5001	POLE EXCAVATION AND CONCRETE FOUNDATION	CY	5.4	
680.51010102	INSTALL TRAFFIC SIGNAL PULLBOX, FRAME AND COVER, SIZE 5, TYPE 1	EA	1	
680.520108	CONDUIT, METAL STEEL, ZINC COATED, 3"	LF	40	
680.520503	TRAFFIC SIGNAL CONDUIT, RIGID PLASTIC, CLASS 1, 1"	LF	12	
680.54	INDUCTANCE LOOP INSTALLATION	LF	162	
680.6807	TRAFFIC SIGNAL POLE - BRACKET MOUNT 7 FT MOUNTING HEIGHT	EA	1	
680.71	SHIELDED LEAD-IN CABLE	LF	620	
680.72	INDUCTANCE LOOP WIRE	LF	444	
680.730714	SIGNAL CABLE 7 CONDUCTORS, 14 AWG	LF	475	
680.730914	SIGNAL CABLE 9 CONDUCTORS, 14 AWG	LF	263	
680.77023605	MODIFY TRAFFIC SIGNAL INSTALLATION (NO. 236)	EA	1	
680.810101	TRAFFIC SIGNAL MODULE - 12 INCH, RED BALL, LED	EA	2	
680.810103	TRAFFIC SIGNAL MODULE - 12 INCH, YELLOW BALL, LED	EA	2	
680.810105	TRAFFIC SIGNAL MODULE - 12 INCH, GREEN BALL, LED	EA	2	
680.810601	TRAFFIC SIGNAL SECTION - POLYCARBONATE, TYPE 1, 12 INCH	EA	6	
680.8111	TRAFFIC SIGNAL BRACKET ASSEMBLY - 1 WAY	EA	2	
680.813105	PEDESTRIAN SIGNAL MODULE - 16" BY 18" BI-MODAL HAND/MAN LED	EA	3	
680.813106	PEDESTRIAN SIGNAL MODULE - POLYCARBONATE, TYPE 1, 12 INCH	EA	3	
680.8141	PEDESTRIAN SIGNAL BRACKET MOUNT ASSEMBLY	EA	3	
680.8207	OVERHEAD SIGN ASSEMBLY, TYPE G	EA	6	
680.8225	PEDESTRIAN PUSH BUTTON AND SIGN - WITHOUT POST	EA	3	
680.99130004	INSTALL TRAFFIC SIGNAL POLE - MAST ARM	EA	1	

REV	DESCRIPTION	DATE	BY
7			
6			
5			
4			
3			
2			
1			

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FA PROJECT NO.
121033
PROJECT MANAGER
R. BENNETT
DRAWN BY
T. DAVIS
SCALE
AS SHOWN
ISSUE DATE
JULY 2014

STATE OF NEW YORK
RICHARD CHARLES BENNETT
084070
LICENSED PROFESSIONAL ENGINEER

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135 Calkins Road, Rochester, NY 14623
Phone: 585-334-3310

PROJECT
CENTER CITY TWO-WAY CONVERSION
SAINT PAUL STREET AND NORTH CLINTON AVENUE
BETWEEN EAST MAIN STREET AND CUMBERLAND STREET
PIN:13102
CITY OF ROCHESTER, MONROE COUNTY, NEW YORK

TITLE OF DRAWING
TRAFFIC SIGNAL PLAN

DRAWING NO.
TSP-09

SHEET 66 OF 69

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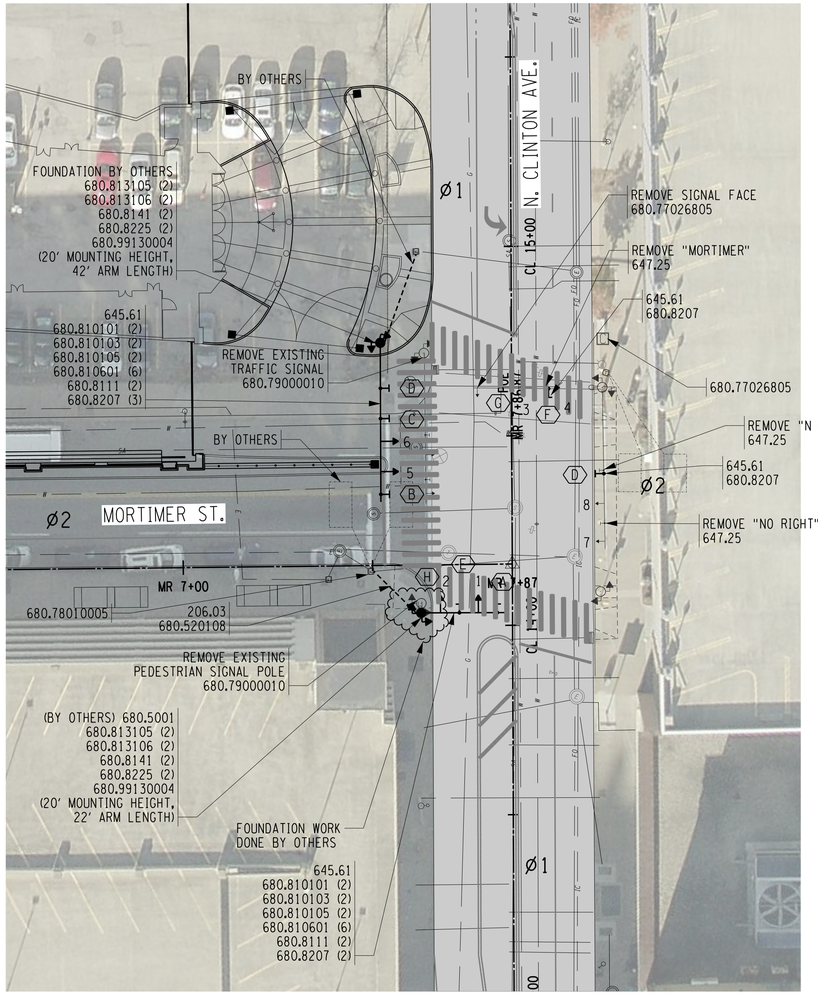


MCDOT SIGNAL NO. 268

SCALE (FT)
0 10 20 40

GRID NORTH

A

R3-5L
30"x36"

B

R3-27
30"x30"

C

R7-6P
30"x20"

D

D3-1
20"x72"

E

D3-1
20"x96"

F

D3-1
20"x96"

G

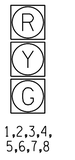
R3-02
30"x30"

R7-6P
30"x20"

H

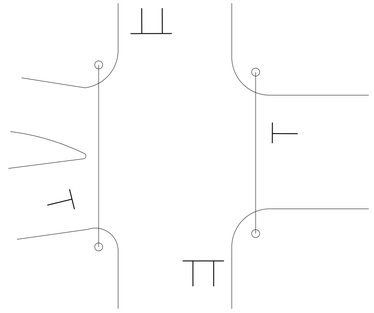
R3-01
30"x30"

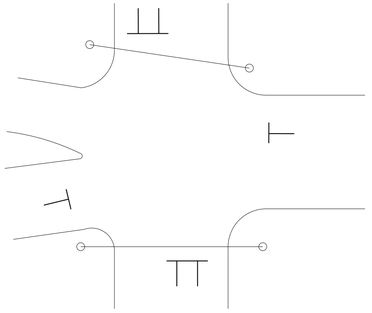
R7-6P
30"x20"



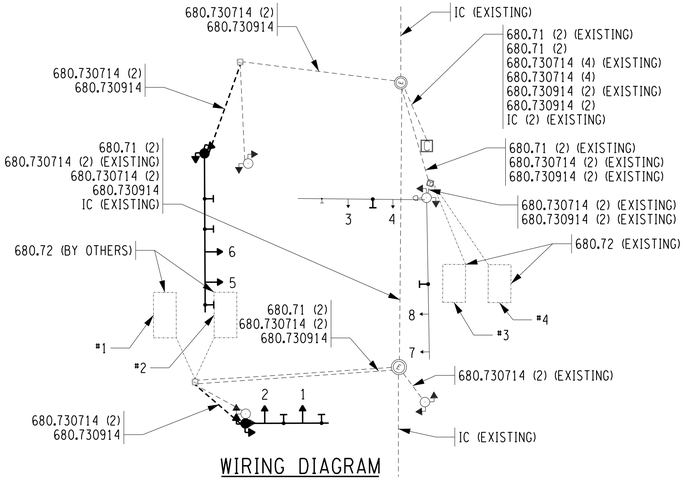
1,2,3,4,
5,6,7,8

SIGNAL FACE
DISPLAY





PHASE DIAGRAMS



WIRING DIAGRAM

TABLE OF INDUCTANCE LOOP DESIGN

DETECTOR NUMBER	PHASE NUMBER	INDUCTANCE LOOP SIZE	NUMBER OF TURNS	NOTES
1	Ø2	6'x12'	3	BY OTHERS
2	Ø2	6'x12'	3	BY OTHERS
3	Ø2	EXISTING	3	
4	Ø2	EXISTING	3	

TABLE OF CLEARANCES

TO	FROM	
	G	R
G	G	R
	G	R
R	Y	R
	R	R

TABLE OF OPERATIONS

PHASE	FACE								PED A	PED B
	1	2	3	4	5	6	7	8		
1	G	G	G	G	R	R	R	R	MAN•	HAND
2	R	R	R	R	G	G	G	G	HAND	HAND••
FLASHING OPERATION	FY	FY	FY	FY	FR	FR	FR	FR	DARK	DARK

• THIS INDICATION SHALL BE "MAN" FOLLOWED BY "FLASHING HAND"

•• THIS INDICATION SHALL BE "MAN" FOLLOWED BY "FLASHING HAND" UPON ACTIVATION OF THE PEDESTRIAN PUSH BUTTON

TABLE OF QUANTITIES

ITEM NUMBER	DESCRIPTION	UNIT	ESTIMATED QUANTITY	FINAL QUANTITY
206.03	CONDUIT EXCAVATION AND BACKFILL INCLUDING SURFACE RESTORATION	LF	16	
645.61	OVERHEAD SIGN PANELS	SF	91.8	
647.25	REMOVE AND DISPOSE OVERHEAD SIGN PANEL, SIGN PANEL ASSEMBLY	EA	3	
680.5001	POLE EXCAVATION AND CONCRETE FOUNDATION	CY	9.5	
680.520108	CONDUIT, METAL STEEL, ZINC COATED, 3"	LF	41	
680.520503	TRAFFIC SIGNAL CONDUIT, RIGID PLASTIC, CLASS 1, 1"	LF	6	
680.71	SHIELDED LEAD-IN CABLE	LF	350	
680.730714	SIGNAL CABLE 7 CONDUCTORS, 14 AWG	LF	658	
680.730914	SIGNAL CABLE 9 CONDUCTORS, 14 AWG	LF	459	
680.77026805	MODIFY TRAFFIC SIGNAL INSTALLATION (NO. 268)	EA	1	
680.78010005	ALTER PULLBOX FOR CONDUITS	EA	1	
680.79000010	REMOVE TRAFFIC SIGNAL EQUIPMENT	LS	1	
680.810101	TRAFFIC SIGNAL MODULE - 12 INCH, RED BALL, LED	EA	4	
680.810103	TRAFFIC SIGNAL MODULE - 12 INCH, YELLOW BALL, LED	EA	4	
680.810105	TRAFFIC SIGNAL MODULE - 12 INCH, GREEN BALL, LED	EA	4	
680.810601	TRAFFIC SIGNAL SECTION - POLYCARBONATE, TYPE I, 12 INCH	EA	12	
680.8111	TRAFFIC SIGNAL BRACKET ASSEMBLY - 1 WAY	EA	4	
680.813105	PEDESTRIAN SIGNAL MODULE - 12" BI-MODAL, HAND/MAN SYMBOLS LED	EA	4	
680.813106	PEDESTRIAN SIGNAL SECTION - POLYCARBONATE, TYPE I, 12"	EA	4	
680.8141	PEDESTRIAN SIGNAL BRACKET MOUNT ASSEMBLY	EA	4	
680.8207	OVERHEAD SIGN ASSEMBLY, TYPE G	EA	9	
680.8225	PEDESTRIAN PUSH BUTTON AND SIGN - WITHOUT POST	EA	4	
680.99130004	INSTALL TRAFFIC SIGNAL POLE - MAST ARM	EA	2	

DONE BY OTHERS

REV	DESCRIPTION	DATE	BY
7			
6			
5			
4			
3			
2			
1			

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FA PROJECT NO.
121033
PROJECT MANAGER
R. BENNETT
DRAWN BY
T. DAVIS
SCALE
AS SHOWN
ISSUE DATE
JULY 2014

STATE OF NEW YORK
ROBERT CHARLES BENNETT
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LICENSED PROFESSIONAL ENGINEER

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PROJECT
CENTER CITY TWO-WAY CONVERSION
SAINT PAUL STREET AND NORTH CLINTON AVENUE
BETWEEN EAST MAIN STREET AND CUMBERLAND STREET
PIN:13102
CITY OF ROCHESTER, MONROE COUNTY, NEW YORK

TITLE OF DRAWING
TRAFFIC SIGNAL PLAN

DRAWING NO.
TSP-10

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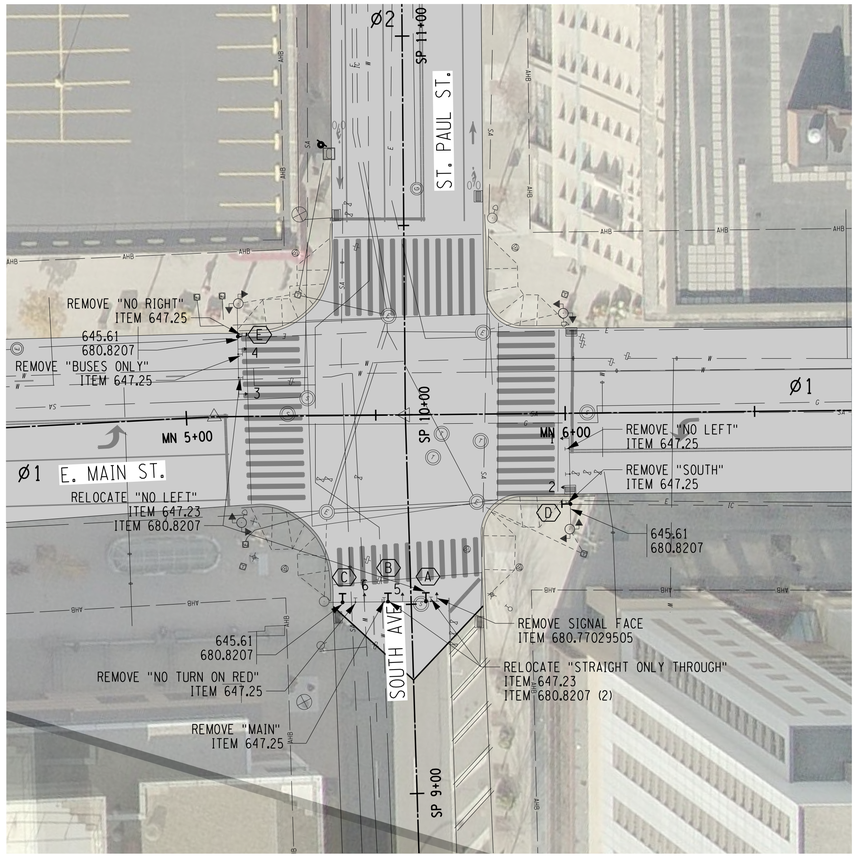
Craig



MCDOT SIGNAL NO. 295

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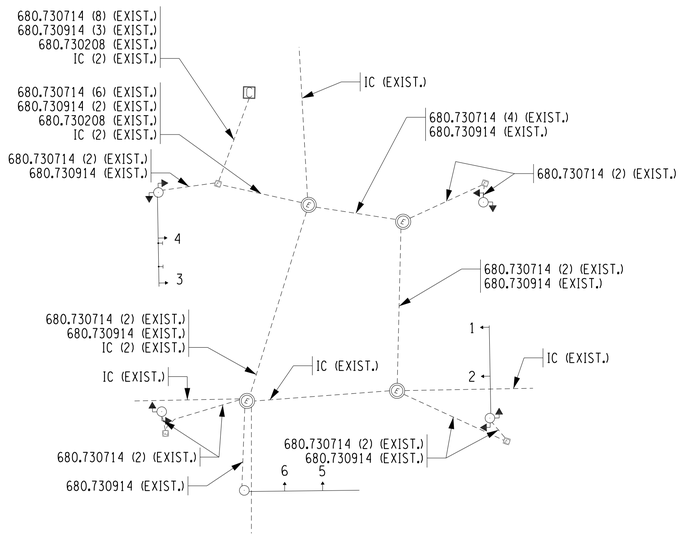


WIRING DIAGRAM

A

R3-2
(EXISTING)

B

R3-5A
(EXISTING)

C

D3-1
20"x48"

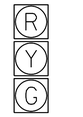
D

D3-1
20"x72"

E

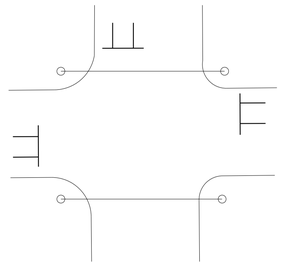
D3-1
20"x72"

OVERHEAD SIGN
FACE DISPLAY

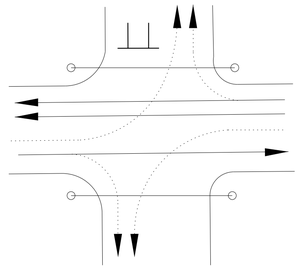


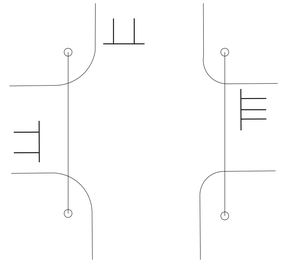
1,2,3,4,
5,6,7,8

SIGNAL FACE
DISPLAY

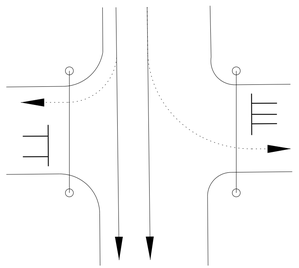


LEADING PED A





LEADING PED B



PHASE DIAGRAM

TABLE OF OPERATIONS								
PHASE	FACE						PED A	PED B
	1	2	3	4	5	6		
1	G	G	G	G	R	R	MAN•	HAND
2	R	R	R	R	G	G	HAND	MAN•
FLASHING OPERATION	FY	FY	FY	FY	FR	FR	DARK	DARK

• THIS INDICATION SHALL BE "MAN" FOLLOWED BY "FLASHING HAND"

TABLE OF CLEARANCES		
TO	FROM	
	G	R
G	G	R
	G	R
R	Y	R
	R	R

TABLE OF QUANTITIES				
ITEM NUMBER	DESCRIPTION	UNIT	ESTIMATED QUANTITY	FINAL QUANTITY
645.61	OVERHEAD SIGN PANELS	SF	26.7	
647.23	RELOCATE OVERHEAD SIGN PANEL, SIGN PANEL ASSEMBLY	EA	2	
647.25	REMOVE AND DISPOSE OVERHEAD SIGN PANEL, SIGN PANEL ASSEMBLY	EA	6	
680.77029505	MODIFY TRAFFIC SIGNAL INSTALLATION (NO. 295)	EA	1	
680.8207	OVERHEAD SIGN ASSEMBLY, TYPE G	EA	5	

REV	DESCRIPTION	DATE	BY
1			
2			
3			
4			
5			
6			
7			

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FA PROJECT NO.
121033
PROJECT MANAGER
R. BENNETT
DRAWN BY
T. DAVIS
SCALE
AS SHOWN
ISSUE DATE
JULY 2014

FISHER ASSOCIATES
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PROJECT
CENTER CITY TWO-WAY CONVERSION
SAINT PAUL STREET AND NORTH CLINTON AVENUE
BETWEEN EAST MAIN STREET AND CUMBERLAND STREET
PIN:13102
CITY OF ROCHESTER, MONROE COUNTY, NEW YORK

TITLE OF DRAWING
TRAFFIC SIGNAL PLAN

DRAWING NO.
TSP-11

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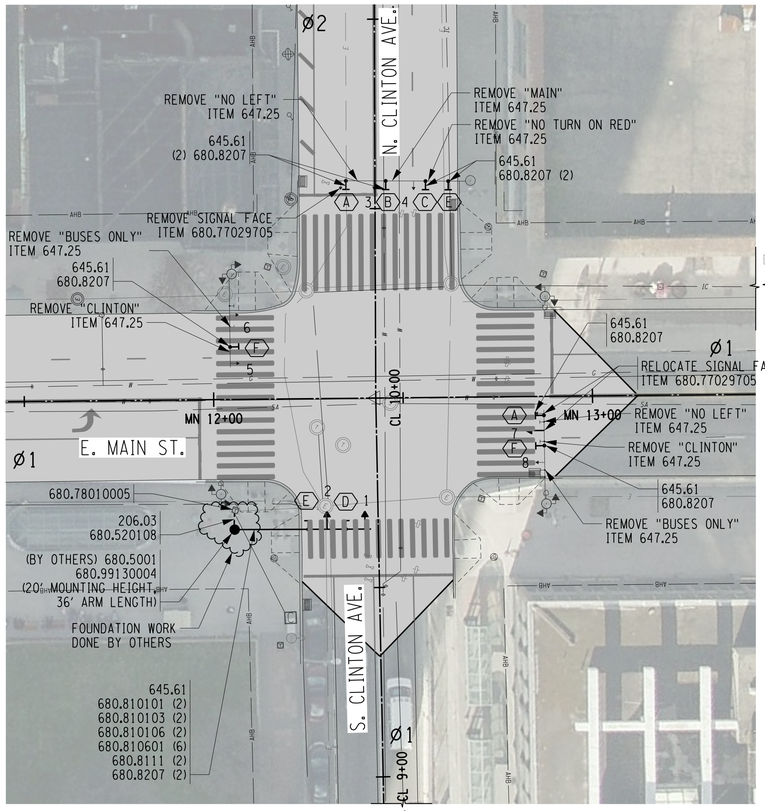
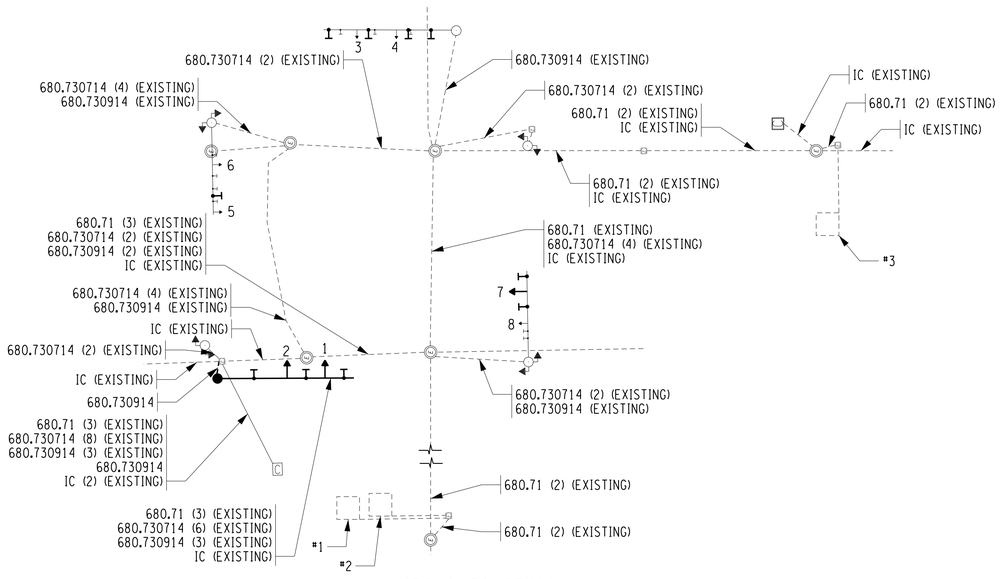
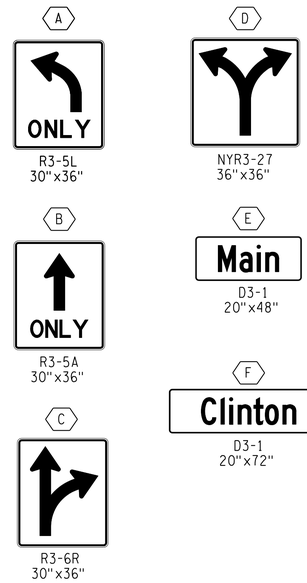


MCDOT SIGNAL NO. 297

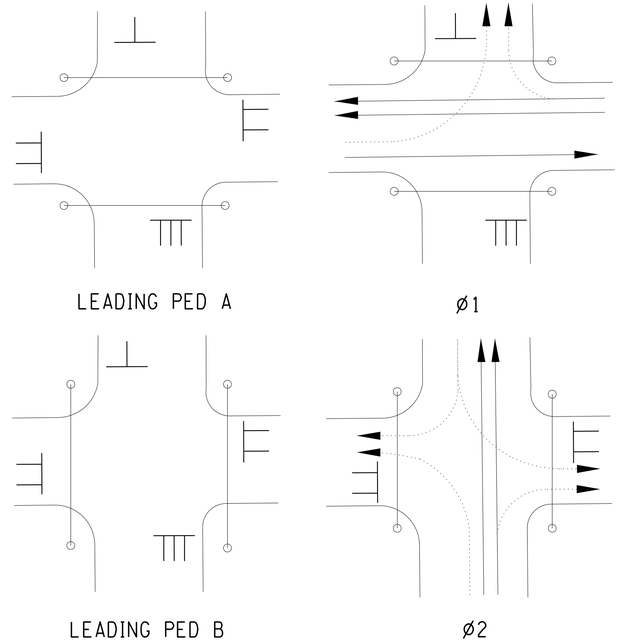


WIRING DIAGRAM



SIGNAL FACE DISPLAY

OVERHEAD SIGN FACE DISPLAY



PHASE DIAGRAM

DONE BY OTHERS

TABLE OF QUANTITIES

ITEM NUMBER	DESCRIPTION	UNIT	ESTIMATED QUANTITY	FINAL QUANTITY
206.03	CONDUIT EXCAVATION AND BACKFILL INCLUDING SURFACE RESTORATION	LF	3	
645.61	OVERHEAD SIGN PANELS	SF	72.3	
647.25	REMOVE AND DISPOSE OVERHEAD SIGN PANEL, SIGN PANEL ASSEMBLY	EA	8	
680.5001	POLE EXCAVATION AND CONCRETE FOUNDATION	CY	4.8	
680.520108	CONDUIT, METAL STEEL, ZINC COATED, 3"	LF	3	
680.730914	SIGNAL CABLE 9 CONDUCTORS, 14 AWG	LF	142	
680.77029705	MODIFY TRAFFIC SIGNAL INSTALLATION (NO. 297)	EA	1	
680.78010005	ALTER PULLBOX FOR CONDUITS	EA	1	
680.810101	TRAFFIC SIGNAL MODULE - 12 INCH, RED BALL, LED	EA	2	
680.810103	TRAFFIC SIGNAL MODULE - 12 INCH, YELLOW BALL, LED	EA	2	
680.810105	TRAFFIC SIGNAL MODULE - 12 INCH, GREEN BALL, LED	EA	2	
680.810601	TRAFFIC SIGNAL SECTION - POLYCARBONATE, TYPE I, 12 INCH	EA	6	
680.8111	TRAFFIC SIGNAL BRACKET ASSEMBLY - 1 WAY	EA	2	
680.8207	OVERHEAD SIGN ASSEMBLY, TYPE G	EA	9	
680.99130004	INSTALL TRAFFIC SIGNAL POLE - MAST ARM	EA	1	

TABLE OF CLEARANCES

TO	FROM G	FROM R
G	G	R
	G	R
R	Y	R
	R	R

TABLE OF OPERATIONS

PHASE	FACE 1	2	3	4	5	6	7	8	PED A	PED B
1	GA	GA	G	G	R	R	R	R	MAN•	HAND
2	R	R	R	R	G	G	G	G	HAND	MAN•
FLASHING OPERATION										

TABLE OF INDUCTANCE LOOP DESIGN

DETECTOR NUMBER	PHASE NUMBER	INDUCTANCE LOOP SIZE	NUMBER OF TURNS	NOTES
1	SS	EXISTING	EXISTING	
2	SS	EXISTING	EXISTING	
3	SS	EXISTING	EXISTING	WIRED TO MAIN ST. & CORTLAND

REV	DESCRIPTION	DATE	BY
1			
2			
3			
4			
5			
6			
7			

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FA PROJECT NO.
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PROJECT MANAGER
R. BENNETT
DRAWN BY
T. DAVIS
SCALE
AS SHOWN
ISSUE DATE
JULY 2014

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PROJECT
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BETWEEN EAST MAIN STREET AND CUMBERLAND STREET
PIN:13102
CITY OF ROCHESTER, MONROE COUNTY, NEW YORK

TITLE OF DRAWING
TRAFFIC SIGNAL PLAN

DRAWING NO.
TSP-12

SHEET 69 OF 69

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