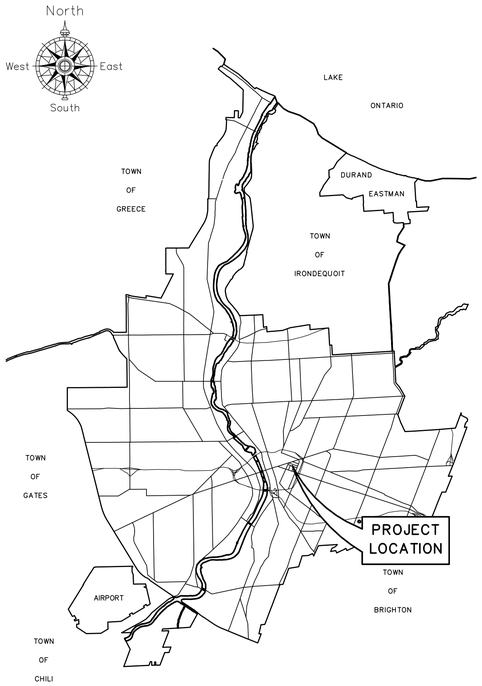
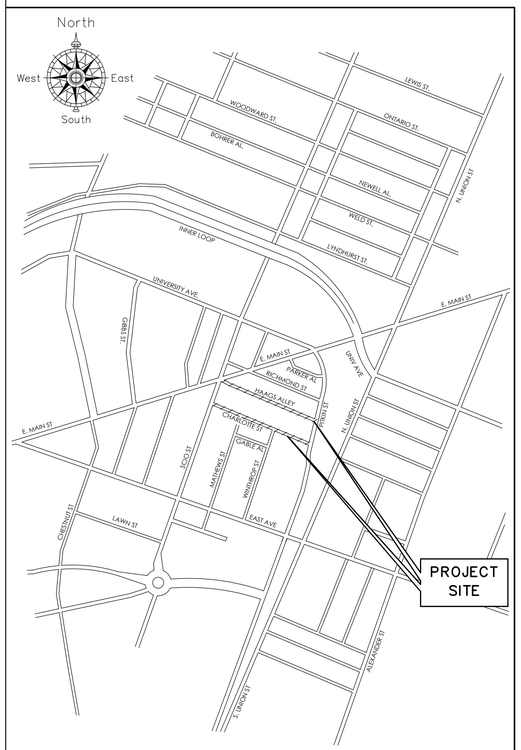


GENERAL LOCATION MAP



ENLARGED VIEW

CITY OF ROCHESTER, NEW YORK
DEPARTMENT OF ENVIRONMENTAL SERVICES

CHARLOTTE STREET AND
HAAGS ALLEY
IMPROVEMENTS
PN 16116

STREET IMPROVEMENT PROGRAM

CHARLOTTE STREET
SCIO ST TO PITKIN ST

HAAGS ALLEY
E. MAIN ST TO PITKIN ST

PROJECT LENGTH 1,620± FEET

ADDENDUM #1
June 6, 2016

PN 16116

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

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

PATRICK O'CONNOR
DIRECTOR OF WATER
CITY OF ROCHESTER
DATE

LEGEND

EXISTING		PROPOSED
	RIGHT-OF-WAY LINE	
	PROPERTY LINE	
	BUILDING LINE	
RCS MON.	HORIZONTAL CONTROL MONUMENT	
CHAIN LINK	FENCE LINE AND TYPE	
	ROADWAY AND DRIVEWAY RECONSTRUCTION	
GRANITE	CURB LINE AND TYPE	
	CONCRETE SIDEWALK / DRIVEWAY	
	PAVERS	
	SHRUB ROW	
	TREES / TREES WITH PIT	
S D	SEWER MANHOLE	
SA 12" BRICK	COMBINED SEWER, SIZE AND TYPE	
15"CMP	STORM WATER SEWER, SIZE AND TYPE	
SA 12" VCP	SANITARY SEWER, SIZE AND TYPE	
CB	CATCH BASIN AND LATERAL	
23-1	SEWER STRUCTURE	23-1
CO	SEWER CLEAN-OUT	
	DISINFECTION/SAMPLING TAP	
HYD W WV	HYDRANT, BRANCH AND WATER VALVE	W
6"W WV	WATER MAIN AND SIZE, WATER VALVE	HYD WV W W WV
W	WATER REDUCER, OFFSET OR BENDS	
W WS	WATER SERVICE AND CURB STOP	W W
MONITOR WELL	MONITORING WELL	
	POLE WITH LIGHT	LP
	BUILDING MOUNTED LIGHT	
PP	POWER POLE	
PP GUY	POWER POLE w/GUY WIRE	
HHE	UTILITY HANDHOLE OR PULLBOX	HH
MH	UTILITY MANHOLE w/ VAULT	
CTV	CABLE/TV UNDERGROUND CONDUIT	
E	ELECTRIC UNDERGROUND CONDUIT	E E
FO	FIBER OPTICS UNDERGROUND CONDUIT	
T	TELECOMMUNICATIONS UNDERGROUND CONDUIT	
FLP	FIBERGLASS STREET LIGHT POLE	LP
CITY HH	CITY OF ROCHESTER HANDHOLE	CITY HH
CITY PB	CITY OF ROCHESTER PULLBOX	
CE	CITY OF ROCHESTER STREET LIGHTING DUCT	CE
4" WSRPT G GV	GAS MAIN AND SIZE, GAS VALVE	
FO	FIBER OPTIC LINE	
OHW	OVERHEAD WIRE	
PM	PARKING METER	
	PAY STATION	
	SIGN POST	
	INLET PROTECTION	

ABBREVIATIONS

ABND	ABANDONED
ADJ	ADJUST
AOBPM	AS ORDERED BY PROJECT MANAGER
APPROX	APPROXIMATE
ASPH	ASPHALT
℄	BASELINE
BLDG	BUILDING LINE
BM	BENCH MARK
B/T	BLACKTOP
C	CURB
CALC	CALCULATED
CIP	CAST IRON PIPE
℄	CENTERLINE
CMP	CORRUGATED METAL PIPE
CONC	CONCRETE
COR	CITY OF ROCHESTER
△	DELTA OF CURVE
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DRWY	DRIVEWAY
DWG	DRAWING
E	EXTERNAL DISTANCE
ELEV	ELEVATION
EXIST	EXISTING
FC	FRONTIER COMMUNICATIONS
FT	FEET
G	GUTTER
HORIZ	HORIZONTAL
INV	INVERT
IP	IRON PIN
L	LENGTH OF CURVE
LH	SEWER LAMPHOLE
LT	LEFT
MAX	MAXIMUM
MCDPH	MONROE COUNTY DEPARTMENT OF PUBLIC HEALTH
MCPW	MONROE COUNTY PURE WATERS
MCWA	MONROE COUNTY WATER AUTHORITY
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MON	MONUMENT
N/F	NOW OR FORMERLY
N.I.C.	NOT IN CONTRACT
NYS	NEW YORK STATE
PAVT	PAVEMENT
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PCP	PLAIN CONCRETE PIPE
PI	POINT OF INTERSECTION
ℙ	PROPERTY LINE
PRC	POINT OF REVERSE CURVATURE
PT	POINT OF TANGENCY
PVC	POINT OF VERTICAL CURVATURE
PVCP	POLYVINYL CHLORIDE PIPE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
R	RADIUS OF CURVE
RCP	REINFORCED CONCRETE PIPE
RCS	ROCHESTER CITY SURVEY
RGE	ROCHESTER GAS AND ELECTRIC
R.O.W.	RIGHT-OF-WAY
RPWD	ROCHESTER PURE WATERS DISTRICT
RT	RIGHT
RTS	ROCHESTER TOPOGRAPHICAL SURVEY
RWW	ROCHESTER WATER WORKS
ST BOX	STONE BOX SEWER
STA	STATION
T	TANGENT LENGTH OF CURVE
TC	TOP OF CURB
TG	TOP OF CATCH BASIN GRATE
TWC	TIME WARNER CORPORATION
USC&GS	UNITED STATES COASTAL AND GEODETIC SURVEY
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
VERT	VERTICAL
VTP	VITRIFIED TILE PIPE
XVCP	EXTRA STRENGTH VITRIFIED CLAY PIPE
Y	WYE OR Y-BRANCH

INDEX

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Department of Environmental Services
Architecture and Engineering Services
City of Rochester, New York

MANAGING ENGINEER ALBERT J. GIGLIO, P.E.
CITY ENGINEER JAMES R. McINTOSH, P.E.

PROJECT TITLE
CHARLOTTE STREET & HAAGS ALLEY IMPROVEMENTS

NO.	REVISIONS	BY	DATE
1	Addendum #1	TAH	6/6

ISSUED MARCH, 2016
CHECKED D. SAVAGE
DRAWN C. HARVEY
DESIGN J. SUDOL
SCALE N.T.S.
PROJECT NUMBER 16116

DRAWING TITLE
INDEX, LEGEND AND ABBREVIATIONS

DRAWING NO. 2 OF 36

GENERAL NOTES

1. CONTRACTOR IS TO FOLLOW ALL PROVISIONS OF CITY OF ROCHESTER STANDARD SPECIFICATIONS, AND THOSE INCLUDED IN THE CONTRACT DOCUMENTS.
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. CONTRACTOR IS TO OBTAIN WORK RELEASES FROM RESPECTIVE PROPERTY OWNER WHERE WORK IS TO BE PERFORMED OUTSIDE OF PUBLIC RIGHT-OF-WAY, AND ON PRIVATELY OWNED PROPERTY. COPY OF SUCH WORK RELEASE IS TO BE FILED WITH PROJECT MANAGER.
4. 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 STAKEOUT IN ADVANCE OF COMMENCING ANY WORK, BY CALLING DIG SAFELY NEW YORK, UFPO AT (800) 962-7962.
5. 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.
6. 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 SECTION R622 SAW CUTTING, 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.
7. CONTRACTOR IS TO PROVIDE PROTECTION FOR ALL OF EXISTING TREES WITHIN PROJECT LIMITS 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 OR WOOD RAILS PLACED AROUND AND COMPLETELY ENCOMPASSING EACH EXISTING TREE, AND IS TO BE IN PLACE BEFORE ANY WORK IS STARTED. PER SECTION S617 TREE PROTECTION AND CONTRACT DOCUMENTS. CONTRACT 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.
8. 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.
9. 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, MEETING ADA REQUIREMENTS.
10. WHERE NEW SIDEWALK IS TO BE CONSTRUCTED ADJACENT TO OTHER PAVED AREAS, MINIMUM OF 2 FEET OF ADJACENT PAVED AREA IS TO BE REPLACED IN KIND. WHERE SIDEWALK IS TO BE INSTALLED ADJOINING EXISTING SIDEWALK, THE EXISTING SIDEWALK SHALL BE REMOVED AND REPLACED TOP THE NEAREST JOINT.
11. 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 SECTIONS S610 LANDSCAPE, S613 TOPSOIL AND NYSDOT SECTION 203 EXCAVATION AND EMBANKMENT.
12. 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.

1. CONTRACTOR IS TO CONSTRUCT ALL NEW SEWER MAIN AND LATERAL PIPES, CATCH BASINS, MANHOLES, AND OTHER RELATED APPURTENANCES IN CONFORMANCE WITH REQUIREMENTS OF RPWD.
2. CONTRACTOR IS TO TAKE APPROPRIATE CARE AND MEASURES TO PREVENT ANY DAMAGE TO, OR DIRT, DEBRIS AND CONSTRUCTION MATERIALS FROM ENTERING EXISTING SEWER MAIN AND LATERAL PIPES, CATCH BASINS, MANHOLES AND OTHER RELATED APPURTENANCES DURING CONSTRUCTION OF PROJECT.
3. RPWD WILL LOCATE AND MARK EXISTING LATERALS UPON REQUEST OF CONTRACTOR. RPWD IS ONLY ABLE TO MARK WYE LOCATION AT MAIN SEWER, AND CAN NOT VERIFY WHERE EXISTING LATERAL EXTENDS FROM THERE. CONTRACTOR MAY REQUEST LATERAL STAKEOUT BY CONTACTING MCPW MAPS AND RECORDS ROOM AT (585) 753-7367, OR (585) 753-7651.
4. RPWD MUST BE NOTIFIED IMMEDIATELY IN EVENT OF ANY DAMAGE TO EXISTING SEWER MAIN OR LATERAL PIPES BY CALLING (585) 753-7351, OR (585) 753-7676 (24/7). ALL REPAIRS ARE TO BE PERFORMED IN PRESENCE OF REPRESENTATIVE OF RPWD, AND ARE TO BE MADE AS OUTLINED IN RPWD "REQUIREMENTS FOR PRIVATELY CONSTRUCTED SEWERS IN ROCHESTER PURE WATERS DISTRICT", LATEST EDITION.
5. IN EVENT THAT EXISTING SEWER MAIN OR LATERAL PIPES ARE BROKEN DURING EXCAVATION, ANY AND ALL REPAIRS MUST EXTEND LINEARLY, INTRODUCING NEW BENDS IN PIPE WILL NOT BE PERMITTED. ALL 5 INCH INSIDE DIAMETER LATERAL PIPE DAMAGED IN COURSE OF WORK IS TO BE REPAIRED USING 5 INCH SERVICE WEIGHT CAST IRON PIPE AND 2 FERNCOS. ALL OTHER LATERAL PIPE REPAIRS WITHIN RIGHT-OF-WAY ARE TO BE MADE USING SDR-21 PVC PIPE AND 2 FERNCOS. CONTRACTOR MAY BE PERMITTED TO USE OAKUM AND EPOXY MORTAR TO CONNECT NEW PVC PIPE TO AN EXISTING BELL.
6. STONE BEDDING MATERIAL USED FOR ALL SEWER MAIN AND LATERAL PIPE REPAIRS IS TO BE CLASS B CONSISTING OF #1 WASHED STONE, OR MIXTURE OF #1 AND #2 WASHED STONE, AND IS TO BE MINIMUM OF 6 INCHES THICK.
7. CONTRACTOR IS TO REPLACE ALL EXISTING SEWER MANHOLE FRAMES AND COVERS AS NOTED WITH NEW REPLACEMENT FRAMES AND COVERS AS FURNISHED BY MCPW. CONTRACTOR IS TO OBTAIN REPLACEMENT MATERIALS FROM FLEET CENTER, 145 PAUL ROAD, CHILI, NY, MONDAY THROUGH FRIDAY BETWEEN HOURS OF 8:00AM AND 3:00PM BY CALLING (585) 753-7574, MINIMUM 48 HOURS IN ADVANCE. CONTRACTOR IS TO ADD/REMOVE ADDITIONAL COURSES OF BRICK/BLOCK AS/IF REQUIRED TO RETROFIT REPLACEMENT MATERIALS ONTO EXISTING MANHOLE STRUCTURE AT REQUIRED FINISHED GRADE.
8. WHERE AN EXISTING CATCH BASIN IS TO BE REMOVED, ALL PORTIONS OF EXISTING CATCH BASIN WALLS AND FOUNDATION ARE TO BE REMOVED, AND EXISTING LATERAL PIPE PLUGGED.
9. ALL REMOVED EXISTING SEWER MANHOLE FRAMES AND COVERS AND CATCH BASIN FRAMES, GRATES, ACCESS COVERS AND CAPSTONES ARE PROPERTY OF RPWD. CONTRACTOR IS TO CLEAN AND RETURN ALL SUCH REMOVED APPURTENANCES TO MCPW FLEET CENTER, 145 PAUL ROAD, ROCHESTER, NY, MONDAY THROUGH FRIDAY BETWEEN HOURS OF 8:00AM AND 3:00PM, INQUIRE AT MAIN GATE, AT NO ADDITIONAL COST TO 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.

MCDPH STANDARD WATERMAIN EXTENSION NOTES

1. THE WATER MAIN AND TEMPORARY BYPASS PIPE SHALL BE DISINFECTED EQUAL TO AWWA STANDARD FOR DISINFECTING WATER MAINS, DESIGNATION C651, BY USING THE CONTINUOUS FEED METHOD. FOLLOWING DISINFECTION, THE WATER MAIN AND BYPASS PIPE SHALL BE FLUSHED UNTIL THE CHLORINE CONCENTRATION IN THE WATER LEAVING THE MAIN IS NO HIGHER THAN THAT GENERALLY PREVAILING IN THE SYSTEM. THE INTERIOR OF ALL WATER MAIN PIPE, VALVES, FITTINGS AND SERVICES 4 INCHES AND LARGER, INCLUDING NEW HYDRANT BRANCHES CONNECTED TO EXISTING WATER MAINS, NOT RECEIVING 24 HOUR CHLORINE DISINFECTION CONTACT TIME MUST BE SPRAY OR SWAB DISINFECTED WITH A MINIMUM 1% - 5% SOLUTION OF CHLORINE NO MORE THAN 30 MINUTES PRIOR TO INSTALLATION. ADDITIONALLY, THE EXTERIOR SURFACES OF EXISTING PIPE AND FITTINGS THAT NEW PIPE AND FITTINGS WILL BE CONNECTED TO MUST BE THOROUGHLY CLEANED AND DISINFECTED. THE MAXIMUM DISTANCE BETWEEN DISINFECTION/SAMPLING TAPS ON NEW WATER MAIN AND BYPASS PIPE SHALL BE 1,000 FEET. THE SAMPLING POINT(S) MUST BE DECONTAMINATED BY FLAMING. FIRE HYDRANTS ARE NOT ACCEPTABLE SAMPLING POINTS.
2. THE MONROE COUNTY DEPARTMENT OF PUBLIC HEALTH (MCDPH) MUST RECEIVE AT LEAST 48 HOUR ADVANCE NOTIFICATION REQUESTING SAMPLING SERVICES. THE CONTRACTOR SHALL CALL (585) 753-5057 TO ARRANGE FOR SAMPLING SERVICES AND IS RESPONSIBLE FOR PAYING ALL MCDPH SAMPLING FEES. SAMPLING WILL NOT BE PERFORMED PRIOR TO RECEIPT FROM A NEW YORK STATE LICENSED OR REGISTERED DESIGN PROFESSIONAL (ENGINEER, ARCHITECT OR LAND SURVEYOR WITH A SPECIAL EXEMPTION LAW) CERTIFYING THAT THE WATER SUPPLY IMPROVEMENTS, TESTING AND DISINFECTION PROCEDURES WERE COMPLETED IN ACCORDANCE WITH THE APPROVED PLANS, REPORTS, SPECIFICATIONS AND ANY APPROVED AMENDMENTS. THE DEPARTMENT WILL COLLECT SAMPLES FOR FREE CHLORINE RESIDUAL, TOTAL COLIFORM, ESCHERICHIA COLI (E.COLI) AND TURBIDITY. THE WATER MAIN AND BYPASS PIPE SHALL NOT BE PLACED IN SERVICE UNTIL SO AUTHORIZED BY THE MONROE COUNTY DEPARTMENT OF PUBLIC HEALTH.
3. UNLESS OTHERWISE NOTED OR SHOWN ON THE APPROVED PLANS, THE MINIMUM VERTICAL SEPARATION BETWEEN WATER MAINS AND SEWER PIPE LINES SHALL BE 18 INCHES MEASURED FROM THE OUTSIDE OF THE PIPES AT THE POINT OF CROSSING. ONE FULL STANDARD LAYING LENGTH OF WATER MAIN SHALL BE CENTERED UNDER OR OVER THE SEWER SO THAT BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE. IN ADDITION, WHEN THE WATER MAIN PASSES UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT (COMPACTED SELECTED FILL) SHALL BE PROVIDED FOR THE SEWER TO PREVENT EXCESSIVE DEFLECTION OF JOINTS AND SETTLING OF THE SEWER ON THE WATER MAIN. UNLESS OTHERWISE NOTED OR SHOWN ON THE APPROVED PLANS, THE MINIMUM HORIZONTAL SEPARATION BETWEEN PARALLEL WATER MAINS AND SEWER PIPES (INCLUDING MANHOLES AND VAULTS) SHALL BE 10 FEET MEASURED FROM THE OUTSIDE OF THE PIPES, MANHOLES OR VAULTS.
4. WHEN INSTALLING FIRE HYDRANTS, SHOULD GROUND WATER BE ENCOUNTERED WITHIN 7 FEET OF FINISHED GRADE, FIRE HYDRANT WEEP HOLES (DRAINS) SHALL BE PLUGGED.
5. THE NEW WATER MAIN SHALL BE PRESSURE/LEAKAGE TESTED IN ACCORDANCE WITH THE MINIMUM REQUIREMENTS OF THE AWWA STANDARD C600 (LATEST REVISION) OR IN ACCORDANCE WITH MORE STRINGENT REQUIREMENTS IMPOSED BY THE SUPPLIER OF WATER. FOR CITY OF ROCHESTER WATER MAINS, PRESSURE/LEAKAGE TESTING SHALL BE PERFORMED IN ACCORDANCE WITH SUBSECTION 3.05 OF CITY OF ROCHESTER WATER BUREAU SPECIFICATION S900 - GENERAL WATER PROVISIONS.

WATER MAIN AND WATER SERVICE NOTES

1. ALL NEW WATER MAINS ARE TO BE INSTALLED WITH MINIMUM COVER DEPTH FROM PROPOSED FINISHED GRADE OF 5 FEET FOR DOMESTIC WATER MAINS, AND 5 FEET FOR HOLLY WATER MAINS.
2. ROCHESTER WATER BUREAU REQUIRES THAT HYDRANT USE PERMIT BE OBTAINED BY CONTRACTOR PRIOR TO USING ANY HYDRANT AS SOURCE OF WATER SUPPLY. PERMIT REQUIRES USE OF WATER METER AND BACKFLOW PREVENTER. WATER BUREAU WILL SUPPLY WATER METER AND BACKFLOW PREVENTER WITH PERMIT. PERMIT FEE INCLUDES REFUNDABLE DEPOSIT FOR USE OF WATER METER AND BACKFLOW PREVENTER.
3. FOR EXISTING WATER VALVES AND CURB STOPS THAT ARE LOCATED ON WATER MAINS AND WATER SERVICES WHICH ARE TO BE RETAINED, EXISTING WATER VALVE AND CURB BOXES ARE TO BE ADJUSTED TO GRADE OR REPLACED, AS SHOWN ON PLANS OR AS DIRECTED BY PROJECT MANAGER.
4. FOR ALL ABANDONED WATER MAIN AND HYDRANT BRANCHES, CONTRACTOR IS TO PLUG ALL CUT AND OPEN ENDS WITH 12 INCHES OF CONCRETE. CONTRACTOR IS TO LEAVE ABANDONED WATER MAIN LINE, HYDRANT BRANCH AND SERVICE VALVES IN CLOSED POSITION.
5. CONTRACTOR IS TO EXERCISE CAUTION WHEN WORKING NEAR WATER MAINS WHICH ARE TO BE RETAINED. NO VIBRATORY EQUIPMENT IS TO BE USED OVER OR ADJACENT TO EXISTING WATER MAINS.
6. APPROPRIATE MEASURES ARE TO BE TAKEN TO PREVENT DIRT, DEBRIS, SURFACE AND GROUND WATER FROM CONTAMINATING WATER MAIN. WATER LEVEL IN EXCAVATION AT OPEN WATER PIPE ENDS IS NEVER TO BE LESS THAN 12 INCHES BELOW INVERT OF WATER MAIN. WHENEVER AN OPEN WATER PIPE END IS LEFT UNATTENDED, IT IS TO BE COVERED IN WATER TIGHT MANNER.
7. ALL GATE VALVES REQUIRE MECHANICAL JOINT RESTRAINT WITHIN 18 FEET OF GATE VALVE.
8. ALL NEW DUCTILE IRON WATER MAIN IS TO BE INSTALLED WITH POLYETHYLENE ENCASEMENT, AND MAY REQUIRE INSTALLATION OF CATHODIC PROTECTION ANODES, AS SHOWN ON PLANS OR AS DIRECTED BY PROJECT MANAGER.
9. ALL WATER SERVICE TAPS ON PVC/PVCO WATER MAIN REQUIRE SERVICE SADDLES.
10. STAINLESS STEEL INSERTS ARE REQUIRED ON ALL POLYETHYLENE (PE) WATER SERVICE FITTINGS.
11. TRACER WIRE IS REQUIRED ON ALL BURIED NON-METALLIC WATER MAINS AND WATER SERVICES.

MCPW-ROCHESTER PURE WATERS DISTRICT SEWER NOTES:

CONTRACTOR IS TO CONSTRUCT ALL SEWER APPURTENANCES (MAIN SEWER, LATERALS, CATCH BASINS AND MANHOLES) IN CONFORMANCE WITH THE SPECIFICATIONS OF THE ROCHESTER PURE WATERS DISTRICT (WHEN APPLICABLE).

ANY NEW PORTION OF CATCH BASIN LATERAL INSTALLED WITHIN THE PUBLIC RIGHT-OF-WAY MUST BE SDR-21 PVC CONFORMING TO ASTM D-2241. JOINTS ON HORIZONTAL PORTIONS AND BENDS SHALL BE PUSH-ON NEOPRENE GASKETS. GLUED OR CHEMICALLY WELDED JOINTS WILL NOT BE ACCEPTABLE.

ANY DEDICATED MAINLINE SEWER PIPE AND ASSOCIATED FITTINGS INSTALLED AS PART OF THE CITY STREET PROJECT SHALL BE PVC SDR-35 CONFORMING TO ASTM D-3034.

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.

RPWD IS TO BE NOTIFIED IMMEDIATELY IN THE EVENT OF ANY DAMAGE TO SEWER APPURTENANCES BY CALLING 1-585-753-7600, OPTION #1. ALL REPAIRS ARE TO BE PERFORMED IN THE PRESENCE OF A REPRESENTATIVE OF RPWD, AND ARE TO BE MADE AS PER RPWD SPECIFICATIONS.

RPWD WILL NOT MARK PRIVATE SERVICE LATERALS. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REPAIR OF ANY LATERALS DAMAGED DURING EXCAVATION/CONSTRUCTION ACTIVITIES. IF AVAILABLE, RECORD MAPS INDICATING LATERAL WYE LOCATIONS OF RECORDED WYES/TAPS MAY BE OBTAINED BY CONTACTING THE PURE WATERS RECORDS ROOM AT 753-7651 WEEKDAYS BETWEEN THE HOURS OF 8 AM AND 4 PM.

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 FERNCO COUPLERS. ALL OTHER PIPES ARE TO BE REPAIRED WITH SDR- 21 PIPE AND FERNCO COUPLERS. CONTRACTOR MAY BE PERMITTED TO USE OAKUM AND EPOXY MORTAR TO CONNECT NEW PVC PIPE TO AN EXISTING BELL THAT IS IN GOOD CONDITION.

RPWD REQUIRES ALL OTHER UTILITIES TO CROSS PERPENDICULAR OR CLOSE AS POSSIBLE TO PERPENDICULAR TO DISTRICT FACILITIES.

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.

WHEN NEW MANHOLE FRAMES AND COVERS ARE REQUIRED BY CONTRACT, THE CONTRACTOR WILL REPLACE 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.

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.

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.

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

THE DISTRICT MUST HAVE ACCESS TO ITS FACILITIES AT ALL TIMES. IF AT ANY TIME THE DISTRICT CANNOT ACCESS ITS FACILITIES (IE. CB OR MH), IT WILL BE THE RESPONSIBILITY OF CONTRACTOR TO PROVIDE ACCESS. THE MONROE COUNTY DISPATCH CENTER WILL BE SUPPLIED A COPY OF THE EMERGENCY PHONE LIST AND WILL BE INSTRUCTED TO CONTACT YOU IN THIS EVENT.

IN THE EVENT THAT EXISTING STREET DRAINAGE RECEIVING BASINS ARE DAMAGED OR BROKEN DURING EXCAVATION/CONSTRUCTION ACTIVITIES, ANY AND ALL REPAIRS MUST BE ACCOMPLISHED ACCORDING TO RPWD SPECIFICATIONS AS FOLLOWS:

- BRICK BASINS ARE TO BE REPAIRED USING RED SEWER BRICK, ASTM C32, GRADE SS.
- TYPE "S" MORTAR TO BE USED.
- LATERALS TO BE REPAIRED WITH PVC, SDR-21 PIPE AND FERNCO PIPE COUPLERS.
- IN THE EVENT OF DAMAGE TO A POURED CONCRETE RISER SECTION ON EXISTING BASINS, THE ENTIRE CONCRETE RISER SECTION SHALL BE REMOVED AND REPLACED WITH NEW POURED CONCRETE RISER AS PER RPWD SPECIFICATIONS.
- IF A PRECAST CONCRETE BASIN IS DAMAGED OR BROKEN DURING COURSE OF WORK, IT MUST BE REPLACED WITH NEW IN KIND.

EROSION CONTROL NOTES:

1. CONTRACTOR SHALL CLEAR THE PERIMETER OF THE CONSTRUCTION AREA AND PLACE EROSION CONTROL MEASURES PRIOR TO COMMENCING WORK. EROSION CONTROL DEVICES TO BE MAINTAINED BY THE CONTRACTOR UNTIL GROUND COVER HAS BEEN ESTABLISHED AND REMOVAL IS APPROVED BY THE CITY.
2. TOPSOIL SHALL BE STRIPPED FROM ALL DISTURBED AREAS AND STOCKPILED IN AREAS DESIGNATED BY THE OWNER AND THE CITY. CONTRACTOR IS TO PERFORM THE EARTHWORK MAKING ALL CUTS AND FILLS AS SHOWN ON THE PLANS AND PER FIELD STAKEOUT. UPON COMPLETION OF CONSTRUCTION, TOPSOIL SHALL BE REPLACED TO A DEPTH OF SIX (6) INCHES TO ACHIEVE FINAL GRADING ELEVATION.
3. AS EARTHWORK IS IN PROGRESS EROSION CONTROL DEVICES SHALL BE INSTALLED AS SLOPES ARE DISTURBED OR CREATED. SLOPES SHALL BE STABILIZED AS SOON AS WORK ON THEM IS COMPLETED. SLOPES AT 3:1 OR GREATER SHALL BE TRACKED AND SEEDED. SLOPES SHALL BE SEEDED AS SOON AS POSSIBLE AFTER COMPLETION OF WORK.
4. UPON COMPLETION OF THE EARTHWORK, INCLUDING STORM WATER MANAGEMENT FACILITIES, ALL DISTURBED AREA SHALL BE STABILIZED AS SOON AS POSSIBLE THROUGH A COMBINATION OF SILT FENCING AND SEEDING. ALL DISTURBED AREAS NOT TO BE WORKED WITHIN 21 DAYS MUST BE TEMPORARILY SEEDED/MULCHED WITHIN 7 DAYS.
5. UPON COMPLETION OF THE EARTHWORK, INCLUDING STORM WATER MANAGEMENT FACILITIES, THE CONTRACTOR SHALL PROCEED WITH THE INSTALLATION OF ALL UNDERGROUND UTILITIES. THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE AGENCY PRIOR TO MAKING CONNECTION OR ALTERING ANY EXISTING UTILITIES.
6. THE PAVEMENT SUBBASE MATERIAL SHALL BE PLACED AND COMPACTED TO 95 % MAXIMUM DENSITY.
7. DURING CONSTRUCTION, THE CONTRACTOR WILL BE RESPONSIBLE FOR REPLACING ANY EROSION CONTROL MEASURES THAT BECOME INOPERABLE OR DAMAGED. ALL EROSION CONTROL MEASURES SHALL BE INSPECTED AT MAXIMUM INTERVALS OF THREE MONTHS FOR REPLACEMENT. ALL EROSION AND SILTATION CONTROLS WILL BE INSPECTED AFTER A STORM EVENT AND REQUIRED REPAIRS WILL BE MADE IMMEDIATELY.
8. EXISTING UNDERGROUND UTILITIES SHOWN HEREIN WERE PLOTTED FROM FIELD LOCATIONS AND/OR UTILITY COMPANY RECORD PLANS. PRIOR TO ANY CONSTRUCTION THE CONTRACTOR SHALL CALL THE UFPO HOTLINE AT 1-800-962-7962 FOR STAKE-OUT OF EXISTING UTILITIES.
9. CRUSHED STONE PAD SHALL BE INSTALLED AT CONSTRUCTION ENTRANCE TO PROVIDE A STABILIZED ENTRANCE POINT.
10. ANY SLIT OR SEDIMENT ACCUMULATED IN EXISTING SWALES, STORM SEWERS, STREET AND/ OR GUTTERS SHALL BE CLEANED OUT DURING CONSTRUCTION.
11. DISTURBED AREAS SHALL BE STABILIZED, AND SLOPES GREATER THAN 10 % SEEDED UPON COMPLETION OF GRADING AND CONSTRUCTION. DISTURBED AREAS SHALL BE SEEDED IMMEDIATELY UPON COMPLETION WITH FOLLOWING MIXTURES:

	% Germ	% By Purity	% By Weight
Pennfine Perennial Rye Grass	85	85	35
Pennlawnred Fescue	80	97	35
Common Kentucky BlueGrass	80	85	30

SEEDING RATE: 5.0 LBS PER 1,000 SF
MULCH: HAY AS SPECIFIED AT TWO TONS PER ACRE WITH TACKIFIER AS SPECIFIED. STARTING FERTILIZER: 5:10:10 AT 20 LBS PER 1,000 SF.

12. ALL DISTURBED AREAS TO BE RECLAIMED WITH 6" TOPSOIL.
13. THE OWNER SHALL BE RESPONSIBLE FOR PROVIDING ON-SITE INSPECTIONS BY A LICENSED PROFESSIONAL OF CONSTRUCTION EROSION CONTROL DURING CONSTRUCTION. INSPECTIONS ARE TO BE PROVIDED A MINIMUM OF ONCE A WEEK. AN INSPECTION REPORT LOG IS TO BE KEPT ON-SITE BY THE OWNER.
14. ANY ADDITIONAL EROSION OR SEDIMENT CONTROL DEEMED NECESSARY BY THE CITY OR A REPRESENTATIVE THEREOF SHALL BE PROVIDED BY THE OWNER.

GENERAL CITY NOTES:

1. ALL FACILITIES TO BE CONSTRUCTED OR INSTALLED SHALL COMPLY WITH ALL THE LATEST REVISIONS AND APPLICABLE SECTIONS OF THE CITY OF ROCHESTER SUBDIVISION REGULATION.
2. WATER SERVICES, STORM LATERALS, AND SANITARY LATERALS TO EXTEND 10' AND STORM LATERALS SHALL BE PLACED AT THE RIGHT-OF-WAY OR C.R.P.W. EASEMENT LINE.
3. ALL FILL AREAS SHALL BE COMPACTED TO 95% OF ORIGINAL DENSITY PER MODIFIED PROTECTOR TEST. THIS SHALL BE CERTIFIED TO ENGINEER IN ALL AREAS OF FILL BY A LICENSED TESTING COMPANY.
4. ALL IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPROVED PLANS OR OTHER APPLICABLE REGULATIONS AOBE.
5. CONTRACTOR SHALL PRESERVE AND PROTECT FROM DAMAGE, DURING CONSTRUCTION, WHENEVER POSSIBLE ALL NATURAL FEATURES, INCLUDING LARGE TREES. CONTRACTOR SHALL NOT REMOVE TREES THAT ARE NOT DIRECTLY INTERFERING WITH THE PROPOSED WORK.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SILTATION AND EROSION CONTROL MEASURES DURING THE ENTIRE PERIOD OF CONSTRUCTION AND UNTIL SUBSTANTIAL GROUND COVER IS ESTABLISHED. IT IS RECOGNIZED THAT THESE CONTROLS MAY INTERFERE WITH CONSTRUCTION, IN THIS EVENT, ALTERNATE FACILITIES AND/OR MEASURES SHALL BE APPROVED BY ENGINEER.
7. THE CONTRACTOR SHALL MAKE EXPLORATORY EXCAVATION TO LOCATE EXISTING UNDERGROUND FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS REQUIRED TO MEET EXISTING CONDITIONS.
8. THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PROTECT UTILITY LINES SHOWN ON THE APPROVED DRAWINGS AND ANY OTHER LINES NOT SHOWN HEREON OR OF RECORD.
9. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FOR ALL IMPROVEMENTS SHOWN ON THE APPROVED PLANS.
10. HIGHWAY DRAINAGE SHALL BE MAINTAINED AT ALL TIMES.
11. UPON COMPLETION OF THE PROJECT, AS-BUILT PLANS OF THE COMPLETED UTILITIES SHALL BE FURNISHED ON SUITABLE REPRODUCIBLE MATERIAL TO THE CITY, RPWD AND THE OWNER.
12. THE CONTRACTOR IS CAUTIONED THIS SITE HAS SEVERAL BURIED UTILITIES AND OTHER UNKNOWN UTILITIES, CONDUITS, DEBRIS AND DRAINAGE INFRASTRUCTURE NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL PREPARE TO DEAL WITH THESE FACILITIES WHEN DISCOVERED AND ALLOW FOR CONSTRUCTION TIME LOSSES IF ADDITIONAL ENGINEERING IS REQUIRED TO RESOLVE THE DISCOVERY.

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Architecture and Engineering Services
City of Rochester, New York

MANAGING ENGINEER ALBERT J. GIGLIO, P.E.
CITY ENGINEER JAMES R. McINTOSH, P.E.

PROJECT TITLE
CHARLOTTE STREET & HAAGS ALLEY IMPROVEMENTS

NO.	REVISIONS	BY	DATE
1	Addendum #1	TAH	6/6

ISSUED MARCH, 2016
CHECKED D. SAVAGE
DRAWN C. HARVEY
DESIGN J. SUDOL
SCALE N.T.S.
PROJECT NUMBER 16116

DRAWING TITLE
GENERAL NOTES

DRAWING NO.
3
OF
36

SUMMARY OF ITEMS

ITEM	DESCRIPTION	UNITS	TOTAL QUANTITY
203.02	Unclassified Excavation and Disposal	CY	2,833
S201.0111	Soil Testing	LS	1
S201.0112	Groundwater Testing	LS	1
S201.0121	Soil Remediation - ALLOWANCE	TN	200
S201.0122	Groundwater Remediation - ALLOWANCE	GAL	2,000
S203.25	Stone Bedding	CY	35
S203.26	Sand	CY	270
S203.28	Select Granular Backfill (Sewer)	CY	224
S203.29	Select Granular Backfill (Water)	CY	417
S207.21	Pavement Reinforcement - Light and Medium Duty Asphalt Pavement	SY	4,600
R206.04	Trench and Culvert	CY	1,200
304.11	Sub Base Course, Type 1	CY	550
304.12	Sub Base Course, Type 2	CY	440
402.098202	9.5 F2 Top Course HMA, 80 Series Compaction	TN	236
402.198902	19 F9 80 Binder Curse HMA 80 Series Compaction	TN	289
402.378902	37.5 F9 Base Course HMA, 80 Series Compaction	TN	723
406.01	Pavement Key	LF	300
407.0202	Straight Tack Coat	SY	6,800
S409.02	Flexible Porus Pavement (2 inch)	SF	100
S412.07	Temporary Pavement	SF	4,813
S505.05	Reset Brick Pavers	SF	50
C603.991012	12" Polyvinyl Lateral Pipe - SDR-21, 12" Diameter	LF	110
C603.992101	Polyvinyl Chloride Pipe Lateral SDR-21, 4" Diameter to 6" Diameter	LF	230
c604.076104	Connect New 4" Lateral to Existing or New Sewer	EA	10
C604.076112	Connect New 12" Lateral to Existing or New Sewer	EA	9
S604.30	Type A Catch Basin	EA	9
S604.5001	Adjust Existing Catch Basin Frame & Grate (Including Excavation & Backfill)	EA	9
S604.560201	Abandon and Remove Existing Catch Basin (Including Excavation and Backfill)	EA	9
S604.60	Adjust Existing Sewer Manhole Frame and Cover (Including Excavation and Backfill)	EA	4
S605.140601	6" Perforated Corrugated Polyethylene Underdrain Tubing	LF	2,340
S608.14	Concrete Sidewalk and Driveway (Including Excavation and Subbase Course)	CY	41
S608.37	Exposed Aggregate Concrete (Including Excavation and Subbase Course)	CY	233
S608.380601	Precast Brick Detectable Warning System	SF	144
S608.99	7" Thick Concrete Pavement	CY	210
S609.2305	5" Stone Curb	LF	900
S609.2405	5" Radius Stone Curb	LF	487
S609.2501	5" Mountable stone Curb	LF	1,670
S609.35	Concrete Curb	LF	55
S610.07	Shredded Bark Mulch	CY	21
S611.0501	Tree Planting Paved Area (Acer x. Reemanii 'Celebration')	EA	8
S611.0502	Tree Planting Paved Area (Pyrus calleryana 'Cleveland Select Pear')	EA	15
S611.0701	Shrub Planting (Rhus armoatica 'Gro-low')	EA	24
S611.9901	Perennial Planting (Liriope muscari 'Big Blue')	EA	365
S611.9902	Perennial Planting (Nepeta racemosa 'Walker's Low')	EA	2
S611.9903	Perennial Planting (sedum x. "Autumn Joy)	EA	50
S611.9904	Grass Planting (Calamagrostis x acutiflora 'Karl Foster')	EA	85
S611.1001	Curned Planting Medium	SF	2,023
S611.11	Planting Medium	CY	21
S611.12	Structural Soil	CY	35
S619.010101	Basic Work Zone Traffic Control - Charlotte Street & Haags Alley	LS	1
R622.03	Full Depth Pavement Saw Cut	LF	1,340
S626.10	Replace Existing Survey Monument with New Horizontal Control Survey Monument (RCS)	EA	2
634.01	Survey and Stakeout	LS	1
S637.10	Field Office - Type A	MO	3
S643.0101	Parking Meter Post (Paved Areas)	EA	2
S646.0201	Delineator - Surface Mount	EA	16
S655.99	Monitoring Well Frame/Grate/Cover Adjustment, Including Excavation and Backfill	EA	4
S670.01	Light Pole and Fixture, Type A	EA	25
S671.1601	Install Fiberglass Handhole/Pullbox (Furnished)	EA	1
S671.030202	2" PVC Conduit - In Roadway (Incl. Excav and Backfill)	LF	1,460
S671.301	Fiberglass Light Pole Foundation - Precast	EA	25
685.11	White Epoxy Reflectorized Pavement Stripes - 20 mils	LF	154
685.12	Yellow Epoxy Reflectorized Pavement Stripes - 20 mils	LF	1,333
C686.03	Sign Post (10')	EA	20
C686.05	Sign Sleeve	EA	16
C686.3201	Traffic Sign - size 12" x 18"	EA	28
C686.3202	Traffic Sign - size 12" x 24"	EA	4
C686.3302	Traffic Sign - size 24" x 18"	EA	2
C686.3401	Traffic Sign - size 24" x 24"	EA	1
C686.3402	Traffic Sign - size 24" x 30"	EA	3
C686.3501	Traffic Sign - size 30" x 30"	EA	4
C686.3902	Traffic Sign - size 30" Octagon	EA	2
C686.41	Removal of Signs - Size A (0.0 - 10 SF)	EA	8
S690.99	Polymer Cement Colored Surfacing for Asphalt Surfaces	SF	1,000
S901.130104	4" Molecularly Oriented Polyvinyl Chloride Pipe Water Pipe	LF	19
S901.130206	6" Molecularly Oriented Polyvinyl Chloride Pipe Water Pipe for Hydrant Branch	LF	27
S901.130112	12" Molecularly Oriented Polyvinyl Chloride Pipe Water Main	LF	760
S903.0104	4" Resilient Seat Gate Valve with Valve Box - Vertical Type	EA	2
S903.0106	6" Resilient Seat Gate Valve with Valve Box - Vertical Type	EA	2
S903.0112	12" Resilient Seat Gate Valve with Valve Box - Vertical Type	EA	3
S906.0112	12" Insertion Sleeve	EA	1
S907.01	Connect New Water Main to Existing Water Main	EA	4
S909.05	Remove Existing Valve Box (Including Excavation & Backfill)	EA	5
S909.08	Adjust Valve Box to Grade-Extension Adjustment (Including Excavation and Backfilling)	EA	5
S912.020001	New 1" Water Service Tap at Water Main, Corporation stop and Connection (Including Excavation & Backfill)	EA	17
S912.020002	New 2" Water Service Tap at Water Main, Corporation stop and Connection (Including Excavation & Backfill)	EA	1
S912.05	Abandon Existing Service at Tap (Including Excavation & Backfill)	EA	6
S913.120001	New 1" Polyethylene Water Service (Including Excavation and Backfill)	LF	350
S913.120002	New 2" Polyethylene Water Service (Including Excavation and Backfill)	LF	23
S914.020001	Furnish and Install New 1" Curb Stop and Box at New Water Service (Including Excavation and Backfill)	EA	17
S914.020002	Furnish and Install New 2" Curb Stop and Box at New Water Service (Including Excavation and Backfill)	EA	1
S917.01	New Hydrant	EA	2
S917.05	Remove Existing Hydrant	EA	4
S966.0332	32 Pound Magnesium Anode	EA	2
S966.0348	48 Pound Magnesium Anode	EA	2
S998.01	Tubular Handrail	LF	55
S999.0101	Project Sign - 6'x4'	EA	1

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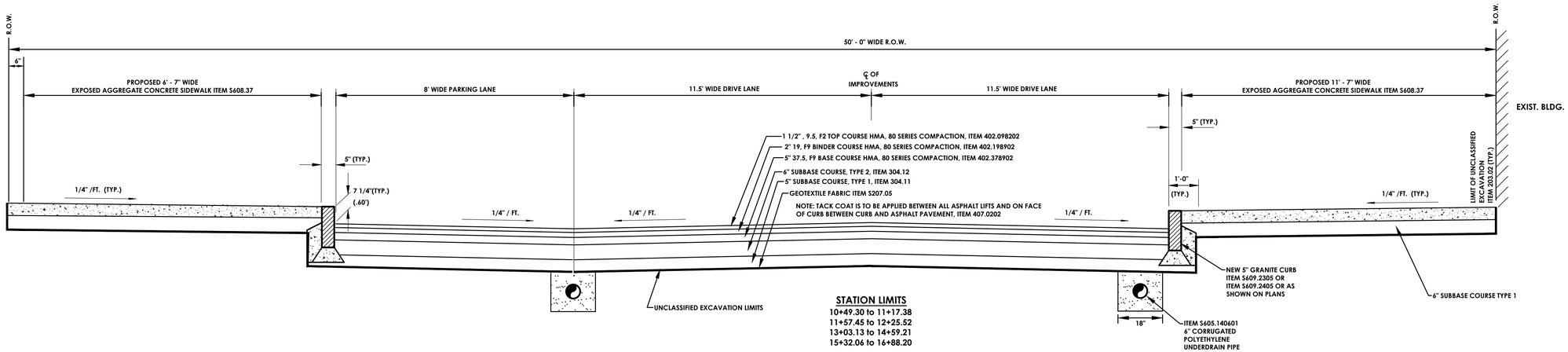
PROJECT TITLE
CHARLOTTE STREET & HAAGS ALLEY IMPROVEMENTS

NO.	REVISIONS	BY	DATE
1	Addendum #1	TAH	5/6

ISSUED MARCH, 2016
CHECKED D. SAVAGE
DRAWN C. HARVEY
DESIGN J. SUDOL
SCALE N.T.S.
PROJECT NUMBER 16116

DRAWING TITLE
SUMMARY OF ITEMS

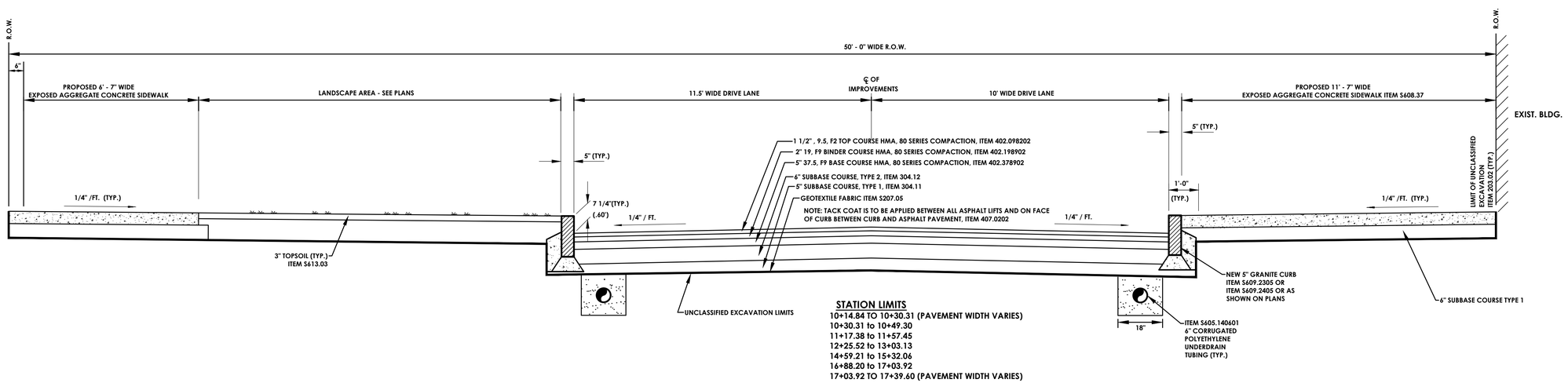
DRAWING NO.
4
OF
36



STATION LIMITS
10+49.30 to 11+17.38
11+57.45 to 12+25.52
13+03.13 to 14+59.21
15+32.06 to 16+88.20

RECONSTRUCTION OF CHARLOTTE STREET

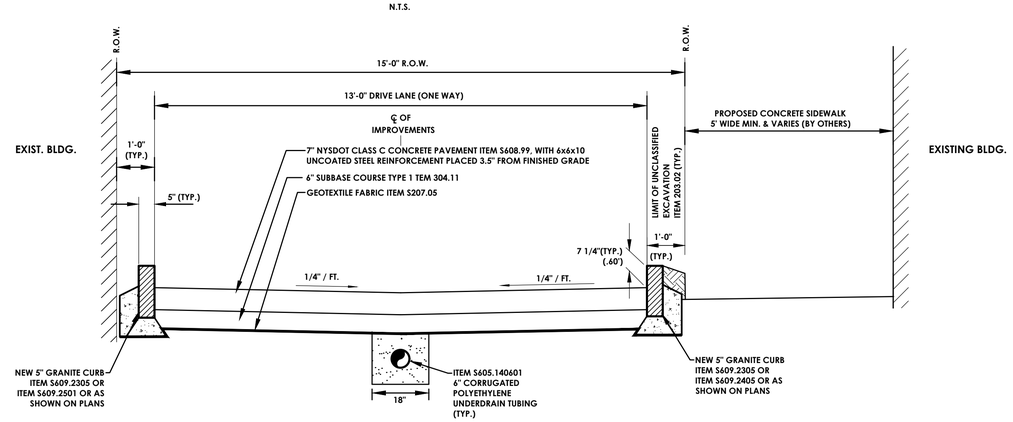
N.T.S.



STATION LIMITS
10+14.84 TO 10+30.31 (PAVEMENT WIDTH VARIES)
10+30.31 to 10+49.30
11+17.38 to 11+57.45
12+25.52 to 13+03.13
14+59.21 to 15+32.06
16+88.20 to 17+03.92
17+03.92 TO 17+39.60 (PAVEMENT WIDTH VARIES)

RECONSTRUCTION OF CHARLOTTE STREET

N.T.S.



STATION LIMITS
10+50.00 TO 16+95.00

RECONSTRUCTION OF HAAGS ALLEY

N.T.S.

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PROJECT TITLE
CHARLOTTE STREET
& HAAGS ALLEY
IMPROVEMENTS

NO.	REVISIONS	BY	DATE
1	Addendum #1	TAH	6/6

ISSUED MARCH, 2016
CHECKED D. SAVAGE
DRAWN C. HARVEY
DESIGN J. SUDOL
SCALE 1"=2'
PROJECT NUMBER 16116

DRAWING TITLE
TYPICAL SECTIONS

DRAWING NO.
5
OF
36

CHARLOTTE STREET PAY STATIONS (BY OTHERS)

STATION	OFFSET	TYPE	DISPOSITION
10+83.64	20.97L	METER	INSTALL NEW 2 HEAD PARKING METER AND POST
11+91.81	20.97L	METER	INSTALL NEW 2 HEAD PARKING METER AND POST
13+82.04	22.40L	PAY STATION	INSTALL NEW PAY STATION
16+10.93	22.40L	PAY STATION	INSTALL NEW PAY STATION

CHARLOTTE STREET MONUMENTS

MON. NUMBER	TYPE	LOCATION	OFFSET	DISPOSITION
	RCS	10+21.81	19.17R	RESET EXISTING FRAME AND COVER
	RCS	12+26.75	19.22R	RESET EXISTING FRAME AND COVER

* THE CONTRACTOR IS TO PROTECT AND MAINTAIN ALL SURVEY MONUMENTS THROUGHOUT THE PROJECT

LIGHT POLE AND BASE

STATION	OFFSET	DISPOSITION
10+16.79	33.22L	INSTALL NEW FIBERGLASS LIGHT POLE, BASE AND FIXTURE
10+33.67	16.10R	REPLACE EXISTING FIXTURE WITH NEW FIXTURE
10+53.28	17.84L	INSTALL NEW FIBERGLASS LIGHT POLE, BASE AND FIXTURE
10+85.74	14.50R	INSTALL NEW FIBERGLASS LIGHT POLE, BASE AND FIXTURE
11+18.28	17.64L	INSTALL NEW FIBERGLASS LIGHT POLE, BASE AND FIXTURE
11+25.41	22.13R	REMOVE EXISTING LIGHT POLE AND BASE
11+50.59	14.66R	INSTALL NEW FIBERGLASS LIGHT POLE, BASE AND FIXTURE
11+83.29	20.87L	INSTALL NEW FIBERGLASS LIGHT POLE, BASE AND FIXTURE
12+15.58	14.83R	INSTALL NEW FIBERGLASS LIGHT POLE, BASE AND FIXTURE
12+34.12	36.12R	INSTALL NEW FIBERGLASS LIGHT POLE, BASE AND FIXTURE
12+48.26	17.24L	INSTALL NEW FIBERGLASS LIGHT POLE, BASE AND FIXTURE
12+80.62	14.49R	INSTALL NEW FIBERGLASS LIGHT POLE, BASE AND FIXTURE
13+07.77	17.41L	INSTALL NEW FIBERGLASS LIGHT POLE, BASE AND FIXTURE
13+48.58	14.52R	INSTALL NEW FIBERGLASS LIGHT POLE, BASE AND FIXTURE
13+51.09	22.45R	REMOVE EXISTING LIGHT POLE AND BASE
13+78.29	21.47L	INSTALL NEW FIBERGLASS LIGHT POLE, BASE AND FIXTURE
14+13.56	14.54R	INSTALL NEW FIBERGLASS LIGHT POLE, BASE AND FIXTURE
14+46.12	21.45L	INSTALL NEW FIBERGLASS LIGHT POLE, BASE AND FIXTURE
14+52.09	15.39R	INSTALL NEW FIBERGLASS LIGHT POLE, BASE AND FIXTURE
15+08.25	17.04L	INSTALL NEW FIBERGLASS LIGHT POLE, BASE AND FIXTURE
15+06.78	31.57R	REPLACE EXISTING FIXTURE WITH NEW FIXTURE
15+26.05	15.25R	INSTALL NEW FIBERGLASS LIGHT POLE, BASE AND FIXTURE
15+64.98	21.95R	REMOVE EXISTING LIGHT POLE AND BASE
15+73.33	20.83L	INSTALL NEW FIBERGLASS LIGHT POLE, BASE AND FIXTURE
15+91.07	15.36R	INSTALL NEW FIBERGLASS LIGHT POLE, BASE AND FIXTURE
16+38.74	20.80L	INSTALL NEW FIBERGLASS LIGHT POLE, BASE AND FIXTURE
16+56.01	15.47R	INSTALL NEW FIBERGLASS LIGHT POLE, BASE AND FIXTURE
17+03.29	16.59L	INSTALL NEW FIBERGLASS LIGHT POLE, BASE AND FIXTURE
17+12.27	14.90R	INSTALL NEW FIBERGLASS LIGHT POLE, BASE AND FIXTURE

CHARLOTTE STREET DRIVEWAY HEADER CURB

FROM	TO	OFFSET	LENGTH
11+38.99	11+50.99	16.28L	12'
11+85.33	12+05.33	17.01R	20'
12+64.88	12+76.88	16.45L	12'
13+34.40	13+44.40	17.00R	10'
16+15.60	16+25.60	17.00R	10'
16+76.66	16+91.64	17.00R	15'
17+17.90	17+25.86	11.50R TO 12.43R ALONG RADIUS	8.05'

HAAGS ALLEY HEADER CURB

FROM	TO	OFFSET	LENGTH
10+61.03	11+01.10	6.50R	40'
12+20.26	12+32.26	6.50L	12'
12+82.95	13+02.73	6.50L	20'
14+21.63	14+68.64	6.50L	47'
14+77.79	14+91.75	6.50L	14'
14+77.79	14+91.75	6.50R	14'
15+13.30	15+49.66	6.50L	36'
15+58.64	15+78.64	6.50R	20'
16+22.51	16+42.51	6.50R	20'
16+43.34	16+51.40	6.50L	8'

HAAGS ALLEY MOUNTABLE CURB

FROM	TO	OFFSET	LENGTH
10+60.00	12+17.27	6.50L	157.3'
12+35.26	12+79.95	6.50L	44.69'
13+05.73	14+18.63	6.50L	112.9'
14+71.64	14+74.79	6.50L	3.15'
14+94.75	15+10.30	6.50L	15.56'
15+52.65	16+40.34	6.50L	87.69'
16+54.39	16+75.00	6.50L	20.61'
11+04.10	14+74.79	6.50R	370.67'
14+94.75	15+55.64	6.50R	60.89'
15+81.64	16+19.52	6.50R	109.87'
16+45.12	16+75.00	6.50R	29.88'

HAAGS ALLEY CURB RADIUS TABLE
(NORTH SIDE WORKING WEST TO EAST)

RADIUS (FEET)	LENGTH (FEET)	FROM		TO	
		STATION	OFFSET	STATION	OFFSET
10'	24.5	10+31.59	21.70L	10+58.41	6.50L
10'	17.22	16+93.47	6.50L	17+03.36	18.01L

HAAGS ALLEY CURB RADIUS TABLE
(SOUTH SIDE WORKING WEST TO EAST)

10'	12.8	10+31.62	22.08R	10+37.35	12.36R
10'	5.5	10+40.22	11.56R	10+43.63	9.97R
10'	14.15	16+98.66	6.50R	17+08.54	14+95R

CHARLOTTE STREET CURB RADIUS TABLE
(NORTH SIDE WORKING WEST TO EAST)

RADIUS (FEET)	LENGTH (FEET)	FROM		TO	
		STATION	OFFSET	STATION	OFFSET
15'	22.6	10+15.34	25.58L	10+30.31	11.50L
5'	3.9	10+49.30	11.50L	10+52.85	12.97L
15'	11.8	10+54.95	15.08L	10+65.58	19.50L
15'	11.8	11+01.11	19.50L	11+11.75	15.07L
5'	3.9	11+13.83	12.98L	11+17.38	11.50L
5'	3.9	11+57.45	11.50L	11+60.99	12.97L
15'	11.8	11+63.09	15.08L	11+73.72	19.50L
15'	11.8	12+09.25	19.50L	12+19.89	15.07L
5'	3.9	12+21.97	12.98L	12+25.52	11.50L
5'	3.9	13+03.13	11.50L	13+06.68	12.97L
15'	11.8	13+08.78	15.09L	13+19.41	19.50L
15'	11.8	14+42.94	19.50L	14+53.57	15.08L
5'	3.9	14+55.66	12.98L	14+59.21	11.50L
5'	3.9	15+32.06	11.50L	15+35.60	12.97L
15'	11.8	15+37.70	15.09L	15+48.33	19.50L
15'	11.8	16+71.90	19.50L	16+82.49	15.13L
5'	3.9	16+84.67	12.96L	16+88.20	11.50L
25'	43.3	17+03.92	11.50L	17+27.94	40.56L

CHARLOTTE STREET CURB RADIUS TABLE
(SOUTH SIDE WORKING WEST TO EAST)

15'	24.5	10+18.40	27.44R	10+33.37	11.50R
15'	22.6	12+20.10	11.50R	12+35.01	25.55R
15'	24.5	12+47.11	27.46R	12+62.08	11.50R
15'	19.4	14+64.16	11.50R	14+79.12	25.49R
15'	14.8	15+05.00	27.40R	15+19.97	11.50R
25'	32.6	17+19.13	11.50R	17+43.81	32.01R

HAAGS ALLEY SIGN TABLE

STATION	OFFSET	DESCRIPTION	MUTCD SIGN NUMBER	SIGN SIZE	CITY (CONTRACTOR) OR MCDOT
10+55.27	23.52L	MAINTAIN EXISTING STREET NAME SIGN AND ONE WAY SIGNED.	N/A	12"x18"	N/A
11+47.58	7.20R	INSTALL NO STANDING SIGN AND SIGN POST	R7-4	12"x18"	CITY
11+87.35	7.58L	INSTALL NO STANDING SIGN ON EXISTING UTILITY POLE	R7-4	12"x18"	CITY
13+24.97	7.21L	INSTALL NO STANDING SIGN ON EXISTING UTILITY POLE	R7-4	12"x18"	CITY
14+19.90	7.40L	INSTALL NO STANDING SIGN ON EXISTING UTILITY POLE	R7-4	12"x18"	CITY
14+50.33	7.46R	INSTALL NO STANDING SIGN AND SIGN POST	R7-4	12"x18"	CITY
15+40.68	7.52R	INSTALL NO STANDING SIGN AND SIGN POST	R7-4	12"x18"	CITY
15+63.14	9.33L	INSTALL NO STANDING SIGN ON EXISTING UTILITY POLE	R7-4	12"x18"	CITY
16+84.81	7.20R	INSTALL NO STANDING SIGN ON EXISTING UTILITY POLE	R7-4	12"x18"	CITY
16+85.27	8.31L	MAINTAIN EXISTING ONE WAY SIGN	N/A	N/A	N/A
16+85.27	8.31L	INSTALL NO STANDING SIGN ON EXISTING UTILITY POLE, MAINTAIN EXISTING ONE WAY SIGN ON UTILITY POLE.	R7-4	12"x18"	CITY
16+95.46	10.22R	MAINTAIN EXISTING STOP, ONE WAY, PITKIN STREET AND HAAGS ALLEY SIGNS ON NEW SIGN POST	N/A	N/A	N/A

CHARLOTTE STREET SIGN TABLE

10+29.22	14.25L	RELOCATE EXISTING STOP SIGN AND INSTALL ON NEW SIGN POST AND SLEEVE	R1-1	N/A	MCDOT
10+33.70	16.10R	REMOVE EXISTING NO STANDING SIGNS (2) AND INSTALL NEW NO STANDING SIGN ON EXISTING LIGHT POLE	NYP1-5	12"x18"	CITY
10+49.86	14.40L	INSTALL NO STANDING SIGN, POST AND SIGN SLEEVE	NYP1-5	12"x18"	CITY
10+57.08	26.32L	REMOVE EXISTING NO STANDING SIGN, HANDICAP SIGN AND POST	N/A	N/A	CITY
10+70.44	21.41L	INSTALL NEW HANDICAP/ACCESSIBLE PARKING SIGN POST AND SLEEVE	R7-8	12"x18"	CITY
10+74.94	26.22L	REMOVE EXISTING HANDICAP PARKING SIGN	N/A	N/A	CITY
11+17.29	14.44L	INSTALL NEW NO STANDING SIGN, POLE AND SIGN SLEEVE	NYP1-5	12"x18"	CITY
11+25.46	22.11R	REMOVE EXISTING NO PARKING SIGN	N/A	N/A	CITY
11+57.45	14.35L	INSTALL NEW NO STANDING SIGN, POLE AND SIGN SLEEVE	NYP1-5	12"x18"	CITY
12+24.88	16.23R	MAINTAIN EXISTING ONE WAY (2 SIDED), MATTHEWS AND CHARLOTTE STREET SIGNS ON EXISTING POLE	N/A	N/A	CITY
12+24.88	16.23R	INSTALL NEW PEDESTRIAN CROSSING SIGN AND NO STANDING SIGN ON BACK OF EXISTING POLE	W11-2 & W16-7pL, NYP1-5	30"x30" & 24"x12", 12"x18"	MCDOT, MCDOT, CITY
12+23.60	14.34L	INSTALL NEW NO STANDING SIGN, POST AND SLEEVE	NYP1-5	12"x18"	CITY
12+38.65	14.59L	INSTALL NEW PEDESTRIAN CROSSING SIGN, POST AND SLEEVE	W11-2 & W16-7pL	30"x30" & 24"x12"	MCDOT
12+50.56	31.79R	MAINTAIN EXISTING DO NOT ENTER AND STOP SIGN (BACK TO BACK)	N/A	N/A	CITY
12+63.47	16.43R	MAINTAIN EXISTING ONE WAY (BACK TO BACK) SIGN ON EXISTING SIGN POST. INSTALL NEW NO STANDING ANYTIME SIGN ON EXISTING POST.	NYP1-5	12"x18"	CITY
13+19.36	21.03L	INSTALL NEW NO STANDING SIGN, AND NEW PAY PARKING SIGN ON NEW SIGN POST AND SLEEVE	NYP1-5, R7-22	12"x18", 12"x18"	CITY
13+51.18	21.70R	REMOVE EXISTING NO PARKING SIGN	N/A	N/A	CITY
13+81.58	16.52L	INSTALL NEW 1 HOUR SIGN AND SIGN POST (BACK TO BACK)	R7-20	24"x18"	CITY
14+42.62	20.85L	INSTALL NEW NO STANDING SIGN (ARROW RIGHT), AND NEW PAY PARKING SIGN (ARROW LEFT) ON NEW SIGN POST AND SLEEVE	NYP1-5, R7-22	12"x18", 12"x18"	CITY
14+57.83	15.14R	INSTALL NEW PEDESTRIAN CROSSING SIGN AND NO STANDING SIGN ON BACK OF EXISTING POLE	W11-2 & W16-7pL, NYP1-5	30"x30" & 24"x12", 12"x18"	MCDOT, MCDOT, CITY
14+74.60	14.23L	INSTALL NEW PEDESTRIAN CROSSING SIGN, POST AND SLEEVE	W11-2 & W16-7pL	30"x30" & 24"x12"	MCDOT
15+06.74	31.72R	MAINTAIN EXISTING STREET NAME SIGNES ON EXISTING LIGHT POLE	N/A	N/A	CITY
15+07.08	31.02R	INSTALL NEW STOP SIGN ON NEW POST AND SLEEVE.	R1-1, R7-4	30"x30" OCTOGON, 12"x18"	MCDOT (R1-1), CITY (R7-4)
15+19.16	15.15R	INSTALL NEW NO STANDING SIGN, POST AND SLEEVE	NYP1-5	12"x18"	CITY
15+48.39	21.44L	INSTALL NEW NO STANDING SIGN, AND NEW PAY PARKING SIGN ON NEW SIGN POST AND SLEEVE	NYP1-5, R7-22	12"x18", 12"x18"	CITY
16+10.85	22.33L	INSTALL NEW 1 HOUR SIGN AND SIGN POST (BACK TO BACK)	R7-20	24"x18"	CITY
16+70.42	20.80L	INSTALL NEW NO STANDING SIGN (ARROW RIGHT), AND NEW PAY PARKING SIGN (ARROW LEFT) ON NEW SIGN POST AND SLEEVE	NYP1-5, R7-22	12"x18", 12"x18"	CITY
16+97.34	15.12R	INSTALL NEW NO STANDING SIGN, POST AND SLEEVE	NYP1-5	12"x18"	CITY
17+22.72	14.75R	RELOCATE EXISTING STOP, ONE WAY (1 SIDED) AND NO LEFT TURN SIGNS ON NEW SIGN POST AND SLEEVE	N/A	N/A	CITY
17+39.52	27.66R	MAINTAIN EXISTING SIGN, POST AND SLEEVE	N/A	N/A	CITY

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CITY ENGINEER JAMES R. McINTOSH, P.E.

PROJECT TITLE
CHARLOTTE STREET & HAAGS ALLEY IMPROVEMENTS

NO.	REVISIONS	BY	DATE
1	Addendum #1	TAH	6/6

ISSUED MARCH, 2016
CHECKED D. SAVAGE
DRAWN C. HARVEY
DESIGN J. SUDOL
SCALE NO SCALE
PROJECT NUMBER 16116

DRAWING TITLE
MISCELLANEOUS TABLES

DRAWING NO.
6
OF
36

CHARLOTTE STREET STORM STRUCTURES

STRUCTURE NAME	STRUCTURE DETAILS	STATION AND OFFSET	DISPOSITION
24-1	SCIO STREET		RESET FRAME AND GRATE
24-3	SCIO STREET		RESET FRAME AND GRATE
24-4	RIM = 519.000	12+18.98 13.99R	REMOVE EXISTING CATCH BASIN. CUT & CAP EXISTING LATERAL
24-4.1	RIM = 519.000	12+23.55 10.88L	INSTALL NEW TYPE A CATCH BASIN CONNECT TO EXISTING SEWER W/ SDR-21 PVC
24-5	RIM = 519.000	12+23.06 10.95R	INSTALL NEW TYPE A CATCH BASIN CONNECT TO EXISTING SEWER W/ SDR-21 PVC
24-7		12+50.74 16.83L	REMOVE EXISTING CATCH BASIN. CUT & CAP EXISTING LATERAL
24-8	RIM = 518.500	12+54.77 12.46R	INSTALL NEW TYPE A CATCH BASIN CONNECT TO EXISTING SEWER W/ SDR-21 PVC
24-11		14+56.07 13.68R	REMOVE EXISTING CATCH BASIN. CUT & CAP EXISTING LATERAL
24-12	RIM = 517.500	14+72.49 12.99R	INSTALL NEW TYPE A CATCH BASIN CONNECT TO EXISTING SEWER W/ SDR-21 PVC
24-16		15+02.88 16.92L	REMOVE EXISTING CATCH BASIN. CUT & CAP EXISTING LATERAL
25-1		15+19.15 13.43R	REMOVE EXISTING CATCH BASIN. CUT & CAP EXISTING LATERAL
25-2	RIM = 517.420	15+24.17 6.72L	INSTALL NEW TYPE A CATCH BASIN CONNECT TO EXISTING SEWER W/ SDR-21 PVC
25-3	RIM = 517.420	15+25.02 10.77R	INSTALL NEW TYPE A CATCH BASIN CONNECT TO EXISTING SEWER W/ SDR-21 PVC
25-4		16+35.80 16.96L	REMOVE EXISTING CATCH BASIN. CUT & CAP EXISTING LATERAL
25-5		16+51.48 12.68R	REMOVE EXISTING CATCH BASIN. CUT & CAP EXISTING LATERAL
25-6		17+03.48 16.61L	REMOVE EXISTING CATCH BASIN. CUT & CAP EXISTING LATERAL
25-7	RIM = 517.250	17+15.92 14.04L	INSTALL NEW TYPE A CATCH BASIN CONNECT TO EXISTING SEWER W/ SDR-21 PVC
25-8	RIM = 517.250	NEW 17+24.75 11.41R	REMOVE EXISTING CATCH BASIN & INSTALL NEW TYPE A CATCH BASIN CONNECT TO EXISTING LATERAL W/ SDR-21 PVC

CHARLOTTE STREET STORM STRUCTURES

STRUCTURE NAME	STRUCTURE DETAILS	STATION AND OFFSET	DISPOSITION
EXIST MH 24-2	RIM = 524.020 INV OUT = 514.910	10+28.46 3.39L	ADJUST FRAME AND COVER TO NEW GRADE - 523.75
EXIST MH 24-15	RIM = 518.460 INV IN = 511.050 INV OUT = 511.050	14+86.48 2.45L	ADJUST FRAME AND COVER TO NEW GRADE - 517.75
EXIST MH 25-9	RIM = 517.460 INV IN = 510.400 INV OUT = 510.400	17+28.91 0.93L	ADJUST FRAME AND COVER TO NEW GRADE - 517.50
EXIST. MH 24-6	RIM = 519.110 INV IN = 512.350 INV OUT = 512.350	12+42.84 4.08L	ADJUST FRAME AND COVER TO NEW GRADE - 519.40

HAAGS ALLEY STRUCTURES

STRUCTURE NAME	STRUCTURE DETAILS	STATION AND OFFSET	DISPOSITION
26-1	RIM = 520.810 INV OUT = 511.200	11+88.47 0.07R	ADJUST FRAME AND GRATE TO NEW GRADE
26-2	RIM = 518.800 INV IN = 510.710 INV OUT = 510.710	13+18.47 0.16L	REPLACE EXISTING STRUCTURE WITH NEW TYPE A CATCH BASIN
27-1	RIM = 516.820 INV IN = 509.670 INV OUT = 509.670	15+94.73 0.23L	ADJUST FRAME AND GRATE TO NEW GRADE
27-3	RIM = 516.660 INV IN = 509.060	17+11.03 0.39L	ADJUST FRAME AND COVER TO NEW GRADE

VALVES

STATION	OFFSET	DISPOSITION
10+07.22	6.42R	INSTALL NEW 12" GATE VALVE
12+88.57	5.11R/11.53L	INSTALL NEW 6" GATE VALVE (2 TOTAL)
14+58.57	7.71R	INSTALL NEW 12" GATE VALVE
17+48.36	5.82L	INSTALL NEW 12" GATE VALVE

HYDRANTS

11+78.89	15.49R	INSTALL NEW 6" GATE VALVE, 6" PVCO HYDRANT BRANCH AND HYDRANT ASSEMBLY
12+24.20	19.86L	REMOVE EXISTING HYDRANT AND RETURN TO CITY
15+17.40	19.96L	REMOVE EXISTING HYDRANT AND RETURN TO CITY
16+08.82	15.09R	INSTALL NEW12" x 6" TEE, 6" GATE VALVE, 6" PVCO HYDRANT BRANCH AND HYDRANT ASSEMBLY
16+87.53	19.43L	REMOVE EXISTING HYDRANT AND RETURN TO CITY

CHARLOTTE STREET SANITARY SERVICES

STATION	SIZE	SEWER MAIN INVERT AT CONNECTION	DISPOSITION
15+41.37	4"	510.90	INSTALL NEW 4" SDR-21 AND CLEANOUT @ R.O.W.
15+61.80	4"	510.89	INSTALL NEW 4" SDR-21 AND CLEANOUT @ R.O.W.
16+02.11	4"	510.74	INSTALL NEW 4" SDR-21 AND CLEANOUT @ R.O.W.
16+10.73	4"	510.73	INSTALL NEW 4" SDR-21 AND CLEANOUT @ R.O.W.
16+64.87	4"	510.57	INSTALL NEW 4" SDR-21 AND CLEANOUT @ R.O.W.
17+00.47	4"	510.56	INSTALL NEW 4" SDR-21 AND CLEANOUT @ R.O.W.

HAAGS ALLEY SANITARY SERVICES

15+66.16	4"	509.87	INSTALL NEW 4" SDR-21 AND CLEANOUT @ R.O.W.
15+77.60	4"	509.72	INSTALL NEW 4" SDR-21 AND CLEANOUT @ R.O.W.
16+23.22	4"	509.21	INSTALL NEW 4" SDR-21 AND CLEANOUT @ R.O.W.
16+52.92	4"	509.54	INSTALL NEW 4" SDR-21 AND CLEANOUT @ R.O.W.

CHARLOTTE STREET WATER SERVICES

ADDRESS	STATION	OFFSET	NEW SERVICE	OLD SERVICE	DISPOSITION
94-104 SCIO STREET	10+86.14	3.98R	2" PE	1 1/2"	ABANDON EXISTING 1 1/2" SERVICE, CURB BOX/STOP. CONNECT NEW 2" PE WATER SERVICE & CURB STOP/BOX TO EXISTING CUSTOMER PORTION.
84 SCIO STREET	10+92.31	3.98R	4"	4"	ABANDON EXISTING 4" SERVICE, VALVE AND VALVE BOX. INSTALL NEW 4" x 12" TEE, CONNECT NEW 4" WATER SERVICE & CURB STOP/BOX TO EXISTING CUSTOMER PORTION.
15 CHARLOTTE STREET	11+33.73	4.01R	1" PE	1/2"	ABANDON EXISTING 1/2" SERVICE, CURB BOX/STOP. CONNECT NEW 1" PE WATER SERVICE & CURB STOP/BOX TO EXISTING CUSTOMER PORTION.
17 CHARLOTTE STREET	11+89.87	4.06R	1" PE	5/8"	ABANDON EXISTING SERVICE
	12+19.06	21.58L		3/4"	REMOVE EXISTING CURB BOX/STOP
	12+35.75	21.69L			
CHARLOTTE SQUARE APARTMENTS	12+88.57	4.29R	6"	6"	INSTALL NEW 6" WATER SERVICE AND CONNECT TO NEW 6" VALVE AND VALVE BOX
37 CHARLOTTE STREET	12+90.38	4.30R	4"	4"	ABANDON EXISTING 4" SERVICE, VALVE AND VALVE BOX. INSTALL NEW 4" x 12" TEE, CONNECT NEW 4" WATER SERVICE & CURB STOP/BOX TO EXISTING CUSTOMER PORTION.
	12+91.92				REMOVE EXISTING CURB BOX
	12+94.38				REMOVE EXISTING CURB BOX
	13+28.42			3/4"	REMOVE EXISTING CURB BOX
39 CHARLOTTE STREET	13+44.76	4.60R	1" PE	3/4"	ABANDON EXISTING 3/4" SERVICE, CURB BOX/STOP. CONNECT NEW 1" PE WATER SERVICE & CURB STOP/BOX TO EXISTING CUSTOMER PORTION.
	13+74.59				ABANDON EXISTING WATER SERVICE AND CURB BOX
45-49 CHARLOTTE STREET	13+74.76	4.76R	1" PE	3/4"	ABANDON EXISTING 3/4" SERVICE, CURB BOX/STOP. CONNECT NEW 1" PE WATER SERVICE & CURB STOP/BOX TO EXISTING CUSTOMER PORTION.
	14+32.91			5/8"	REMOVE EXISTING CURB BOX
	14+59.96			3/4"	REMOVE EXISTING CURB BOX
FUTURE TOWNHOME	15+35.00	5.73R	1.5" PE		INSTALL NEW 1.5" PE WATER SERVICE & CURB STOP/BOX. SERVICE TO EXTEND 5 FOOT BEYOND EDGE OF SIDEWALK
	15+49.73			5/8"	REMOVE EXISTING CURB BOX
FUTURE TOWNHOME	15+53.28	5.73R	1.5" PE		INSTALL NEW 1.5" PE WATER SERVICE & CURB STOP/BOX. SERVICE TO EXTEND 5 FOOT BEYOND EDGE OF SIDEWALK
	15+70.82				REMOVE EXISTING CURB BOX
32-36 WINTHROP STREET	15+73.11	5.84R	1" PE	3/4"	ABANDON EXISTING 3/4" SERVICE, CURB BOX/STOP. CONNECT NEW 1" PE WATER SERVICE & CURB STOP/BOX TO EXISTING CUSTOMER PORTION.
FUTURE TOWNHOME	15+92.11	5.55R	1.5" PE		INSTALL NEW 1.5" PE WATER SERVICE & CURB STOP/BOX. SERVICE TO EXTEND 5 FOOT BEYOND EDGE OF SIDEWALK
FUTURE TOWNHOME	16+15.11	6.07R	1.5" PE		INSTALL NEW 1.5" PE WATER SERVICE & CURB STOP/BOX. SERVICE TO EXTEND 5 FOOT BEYOND EDGE OF SIDEWALK
	16+32.07				REMOVE EXISTING CURB BOX
3-26 WINTHROP STREET	16+47.52	6.25R	1" PE		ABANDON EXISTING SERVICE, CURB BOX/STOP. CONNECT NEW 1" PE WATER SERVICE & CURB STOP/BOX TO EXISTING CUSTOMER PORTION.
FUTURE TOWNHOME	16+65.88	6.27R	1.5" PE		INSTALL NEW 1.5" PE WATER SERVICE & CURB STOP/BOX. SERVICE TO EXTEND 5 FOOT BEYOND EDGE OF SIDEWALK
FUTURE TOWNHOME	16+77.88	6.25R	1.5" PE		INSTALL NEW 1.5" PE WATER SERVICE & CURB STOP/BOX. SERVICE TO EXTEND 5 FOOT BEYOND EDGE OF SIDEWALK
89 CHARLOTTE STREET	17+06.91	3.48R	1" PE		ABANDON EXISTING WATER SERVICE, CURB BOX/STOP. CONNECT NEW 1" PE WATER SERVICE & CURB STOP/BOX TO EXISTING CUSTOMER PORTION.

HAAGS ALLEY WATER SERVICES

HAAGS ALLEY	15+62.64	4.46L	1 1/2" PE		INSTALL NEW 1 1/2" PE WATER SERVICE & CURB STOP/BOX
HAAGS ALLEY	15+65.64	4.46L	1 1/2" PE		INSTALL NEW 1 1/2" PE WATER SERVICE & CURB STOP/BOX
HAAGS ALLEY	16+35.17	4.41L	1 1/2" PE		INSTALL NEW 1 1/2" PE WATER SERVICE & CURB STOP/BOX
HAAGS ALLEY	16+38.17	4.41L	1 1/2" PE		INSTALL NEW 1 1/2" PE WATER SERVICE & CURB STOP/BOX

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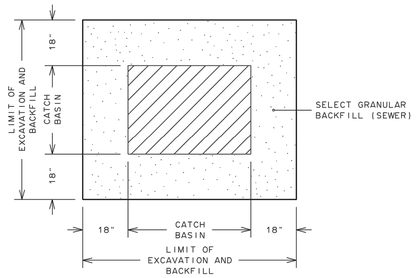
1	Addendum #1	TAH	6/6

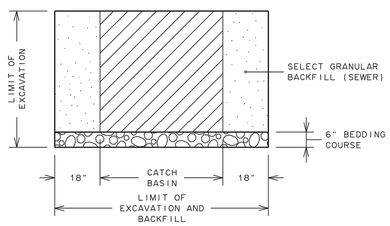
ISSUED MARCH, 2016
CHECKED D. SAVAGE
DRAWN C. HARVEY
DESIGN J. SUDOL
SCALE NO SCALE
PROJECT NUMBER 16116

DRAWING TITLE
MISCELLANEOUS TABLES

DRAWING NO. 7 OF 36



PLAN



ELEVATION

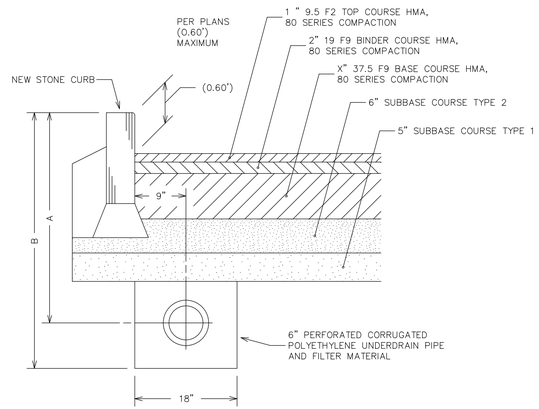
NOTES:

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.
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.

CITY OF ROCHESTER

TRENCH AND BACKFILL LIMIT LINES FOR CATCH BASINS

ISSUED	6-6-14	NON-STANDARD
REVISED		DWG.NO.S206-3



PAVEMENT SECTION	X" THICKNESS BASE COURSE	A (> UNDERDRAIN PIPE)	B (BOTTOM UNDERDRAIN 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"

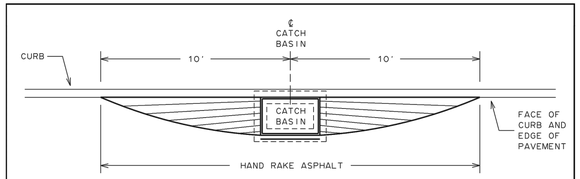
NOTE:

TACK COAT IS TO BE APPLIED BETWEEN ALL LIFTS OF HMA PAVEMENT COURSES AND ON FACE OF CURB BETWEEN CURB AND ASPHALT PAVEMENT.

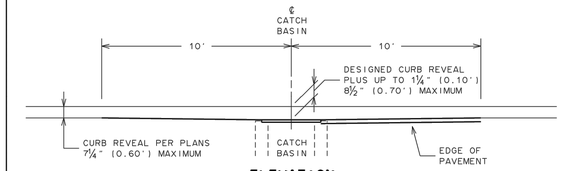
CITY OF ROCHESTER

ASPHALT PAVEMENT SECTION WITH CURB

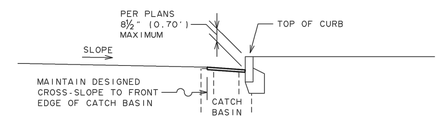
ISSUED	9-2-91	STANDARD
REVISED	7-31-12	DWG.NO.R400-1



PLAN



ELEVATION



SECTION

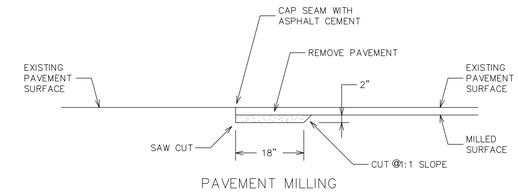
NOTES:

1. DEPRESSED PAVING IS TO BE USED ONLY WHERE GRADES ARE LESS THAN 0.40%, AND AT LOW POINTS WHERE BOTH INCOMING GRADES ARE LESS THAN 0.50%.
2. BACKEDGE OF CATCH BASIN FRAME AND GRATE TO BE DEPRESSED AT CURB.
3. PAVEMENT IS TO BE FLUSH WITH CATCH BASIN.
4. TOP OF CURB IS TO REMAIN TRUE TO LINE AND GRADE. CURB IS NOT TO BE DEPRESSED.

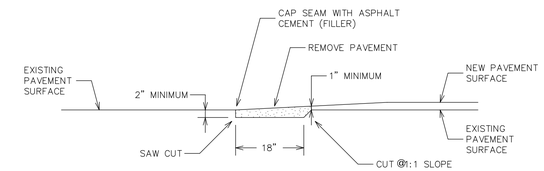
CITY OF ROCHESTER

DEPRESSED PAVING AT CATCH BASIN

ISSUED	9-2-91	STANDARD
REVISED	7-31-12	DWG.NO.R400-3



PAVEMENT MILLING



PAVEMENT RESURFACING

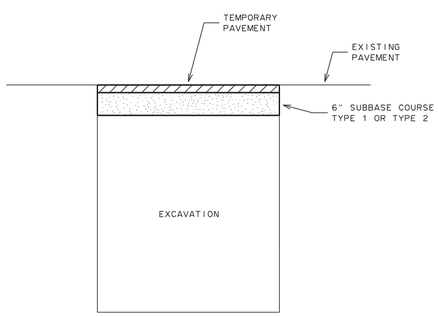
NOTES:

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



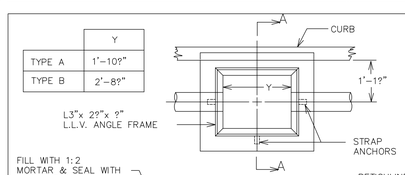
NOTES:

1. TEMPORARY PAVEMENT MATERIAL IS TO BE 2 INCHES TYPE 19 F9 BINDER COURSE HMA 80 SERIES COMPACTION, OR RECYCLED ASPHALT. ASPHALT COLD PATCH AND UNTREATED MILLING MATERIALS ARE NOT ACCEPTABLE FOR USE AS TEMPORARY PAVEMENT.
2. DURING WINTER SEASON (NOVEMBER 1 THRU APRIL 14), IF HMA MATERIAL IS NOT AVAILABLE, USE CLASS F CONCRETE FOR TEMPORARY PAVEMENT. CONCRETE IS TO BE 4 INCHES THICK FOR ARTERIAL AND COLLECTOR STREETS, AND 3 INCHES THICK FOR RESIDENTIAL STREETS AND ALLEYS, AND IS TO BE BROOM FINISHED.
3. TEMPORARY PAVEMENT IS TO BE PLACED WITHIN 24 HOURS OF BACKFILLING EXCAVATION.
4. TEMPORARY PAVEMENT MATERIAL IS TO BE COMPACTED TO PROVIDE FIRM AND SMOOTH SURFACE.

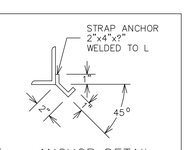
CITY OF ROCHESTER

TEMPORARY PAVEMENT

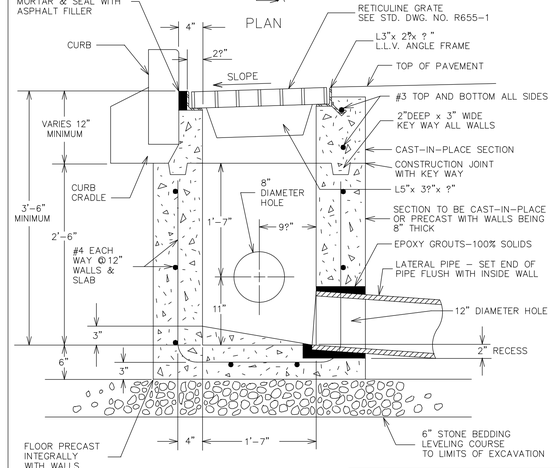
ISSUED	9-2-91	STANDARD
REVISED	7-31-12	DWG.NO.R412-1



PLAN



ANCHOR DETAIL



SECTION A-A

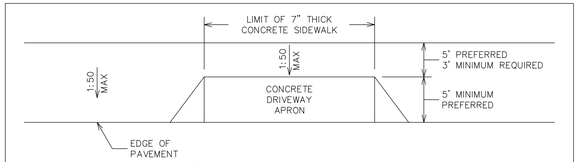
NOTES:

1. COAT INTERIOR OF CATCH BASIN WITH 2 COATS OF TAMMS DURALKOTE 240, OR APPROVED EQUIVALENT.
2. COAT EXTERIOR OF CATCH BASIN WITH 2 COATS OF HI-BUILD BITUMINOUS COATING 35-J-10, KOPPERS BITMASTIC SUPER SERVICE BLACK, OR APPROVED EQUIVALENT.

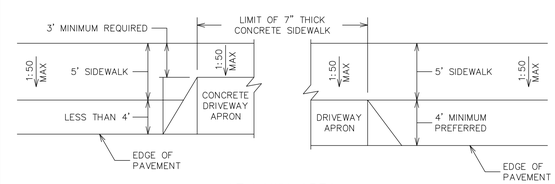
CITY OF ROCHESTER

CATCH BASIN TYPES A AND B

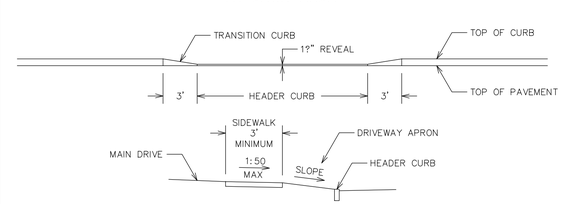
ISSUED	9-2-91	STD. DWG.
REVISED	12-31-07	NO. R604-1



AT FULL WIDTH PAVED AREA



AT LAWN AREA



SECTIONS WITH CURB

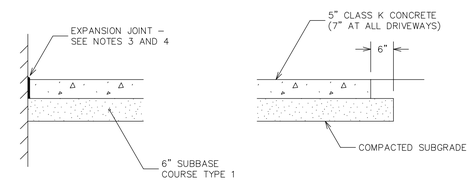
NOTES:

1. NOMINAL RESIDENTIAL DRIVEWAY APRON WIDTH IS TO BE BETWEEN 10 FEET AND 15 FEET, NOT INCLUDING TRANSITION AREAS. ACTUAL WIDTH WILL BE AS APPROVED OF BY CITY.
2. NOMINAL MAXIMUM WIDTH OF COMMERCIAL DRIVEWAY APRON IS TO BE 24 FEET. ACTUAL WIDTH WILL BE AS APPROVED OF BY CITY.

CITY OF ROCHESTER

DRIVEWAY APRON

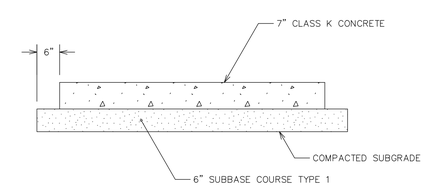
ISSUED	9-2-91	STANDARD
REVISED	7-31-12	DWG.NO.R608-5



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 ?INCH 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 ?INCH WIDE PREMOULDED EXPANSION JOINT MATERIAL, SEALED WITH ?INCH WIDE CAULKING SEALANT ?INCH 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

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Department of Environmental Services
Architecture and Engineering Services
City of Rochester, New York

MANAGING ENGINEER: ALBERT J. GIGLIO, P.E.
CITY ENGINEER: JAMES R. McINTOSH, P.E.

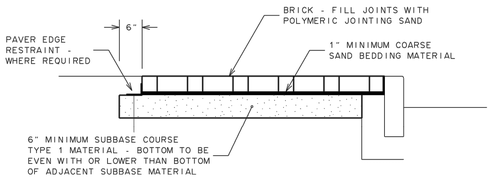
PROJECT TITLE: CHARLOTTE STREET & HAAGS ALLEY IMPROVEMENTS

NO.	REVISIONS	BY	DATE
1	Addendum #1	TAH	6/6

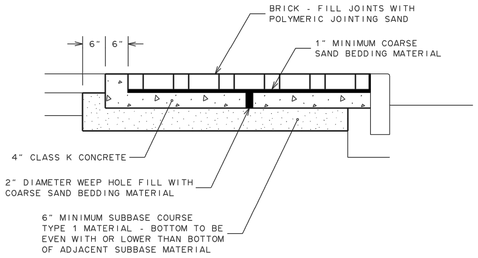
ISSUED	MARCH, 2016
CHECKED	D. SAVAGE
DRAWN	C. HARVEY
DESIGN	J. SUDOL
SCALE	N.T.S.
PROJECT NUMBER	16116

DRAWING TITLE: MISCELLANEOUS DETAILS

DRAWING NO. 8 OF 36



PLAN



WITH CONCRETE FOUNDATION

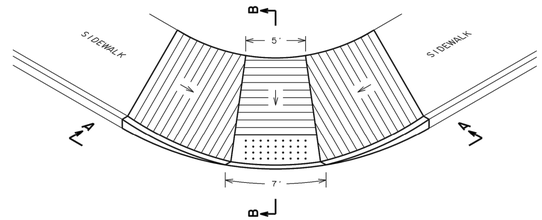
NOTES:

1. MAXIMUM CROSS-SLOPE OF BRICK SIDEWALK IS 1:50.
2. PROVIDE ½ INCH WIDE EXPANSION JOINT BETWEEN NEW BRICK CONSTRUCTION AND BACK EDGE CURB, CONCRETE GUTTER, OTHER PAVED AREAS, BUILDINGS, WALLS, POLE BASES AND OTHER STRUCTURES/APPURTENANCES.
3. FOR EXPANSION JOINT USE ½ INCH WIDE PREMOULDED EXPANSION JOINT MATERIAL, SEALED WITH ½ INCH WIDE CAULKING SEALANT ⅜ INCH DEEP.
4. WHERE OPTIONAL CONCRETE FOUNDATION IS INSTALLED, WEEP HOLES ARE TO BE INSTALLED FOR EVERY 100 SQUARE FEET OF BRICK AREA AND AT ALL LOW POINTS.

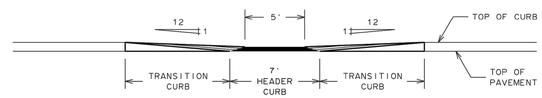
CITY OF ROCHESTER

BRICK

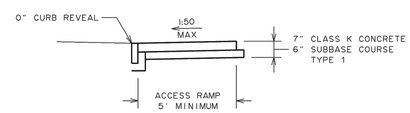
ISSUED	9-2-91	STANDARD
REVISED	5-1-13	DWG.NO.R608-8



ACCESS RAMP TYPE F ISOMETRIC



VIEW A-A



SECTION B-B

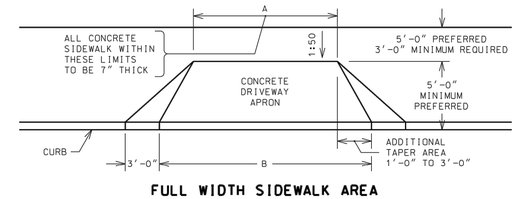
NOTES:

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.

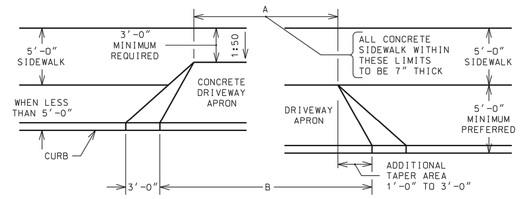
CITY OF ROCHESTER

SIDEWALK ACCESS RAMP TYPE F

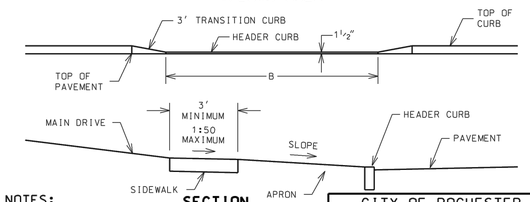
ISSUED	3-21-94	NON-STANDARD
REVISED	5-1-13	DWG.NO.S608-14



FULL WIDTH SIDEWALK AREA



w/LAWN AREA



SECTION

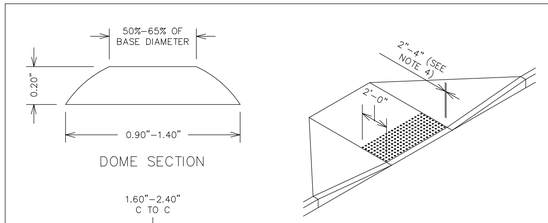
NOTES:

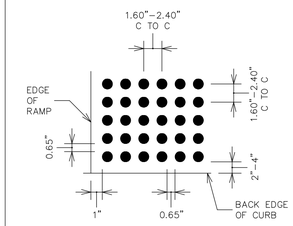
1. DIMENSIONS "A" AND "B" WILL BE AS APPROVED BY THE CITY.
2. FOR RESIDENTIAL DRIVEWAYS "A" WILL BE 10 FEET MINIMUM AND 15 FEET MAXIMUM. FOR COMMERCIAL DRIVEWAYS "A" WILL BE 24 FEET MAXIMUM.
3. DIMENSION "B" WILL BE DIMENSION "A" PLUS 1 FOOT TO 3 FEET ADDITIONAL TAPER, EACH SIDE.

CITY OF ROCHESTER

DRIVEWAY APRON WITH FLARE

ISSUED	2-10-00	NON-STANDARD
REVISED	7-29-11	DWG.NO.S608-23

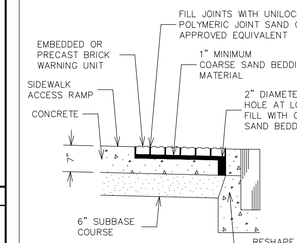




DOME SPACING

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.

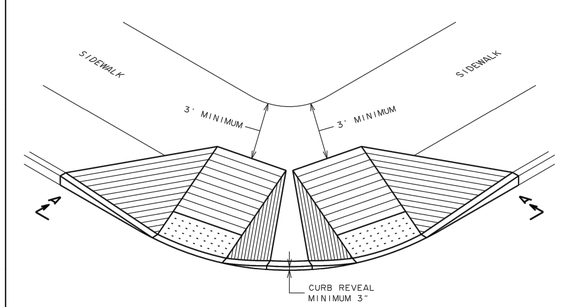


SECTION FOR EMBEDDED OR PRECAST BRICK WARNING UNIT

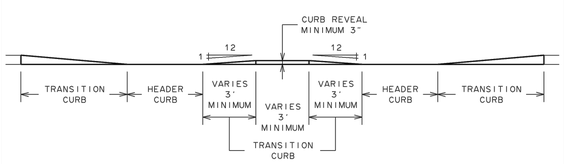
CITY OF ROCHESTER

DETECTABLE WARNING SYSTEM AT CURB

ISSUED	1-23-03	NON-STANDARD
REVISED	5-1-13	DWG.NO.S608-28



LAYOUT ISOMETRIC



VIEW A-A

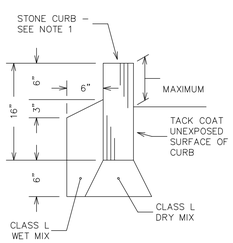
NOTE:

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

CITY OF ROCHESTER

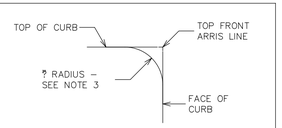
LAYOUT OF MULTIPLE SIDEWALK ACCESS RAMPS AT RADIUS

ISSUED	8-2-05	NON-STANDARD
REVISED	3-3-15	DWG.NO.S608-30

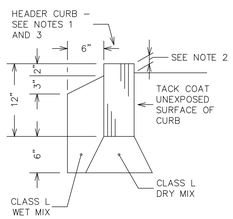


STONE CURB

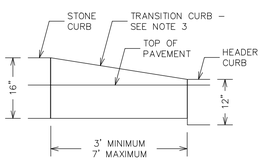
STONE CURB AT RIGID PAVEMENT



CURB FOR DRIVEWAY



HEADER CURB



TRANSITION CURB

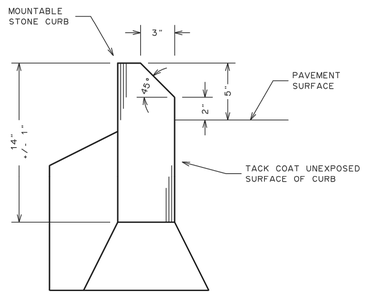
NOTES:

1. TOP OF CURB THICKNESS IS TO BE AS REQUIRED IN CONTRACT DOCUMENTS.
2. CURB REVEAL FOR HEADER CURB AT DRIVEWAY APRONS IS 1INCHES, AT SIDEWALK ACCESS RAMPS 0 INCHES.
3. ONLY TRANSITION AND HEADER CURB PIECES USED FOR DRIVEWAYS ARE TO BE ROUNDED.

CITY OF ROCHESTER

STONE CURB

ISSUED	9-2-91	STANDARD
REVISED	2-25-14	DWG.NO.R609-1



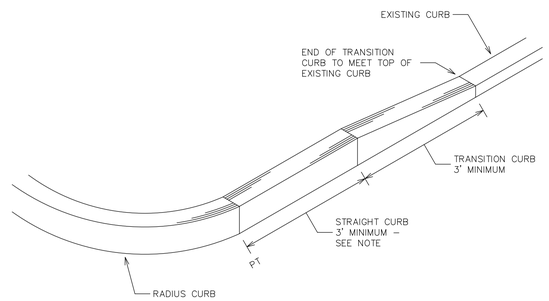
NOTES:

1. OVERALL WIDTH OF CURB IS TO BE AS REQUIRED IN CONTRACT DOCUMENTS.
2. SEE DETAIL S609-15 FOR TRANSITIONING OF MOUNTABLE CURB TO STONE CURB.

CITY OF ROCHESTER

MOUNTABLE STONE CURB

ISSUED	9-2-91	STANDARD
REVISED	12-1-15	DWG.NO.R609-3



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

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Department of Environmental Services
Architecture and Engineering Services
City of Rochester, New York

MANAGING ENGINEER: ALBERT J. GIGLIO, P.E.
CITY ENGINEER: JAMES R. McINTOSH, P.E.

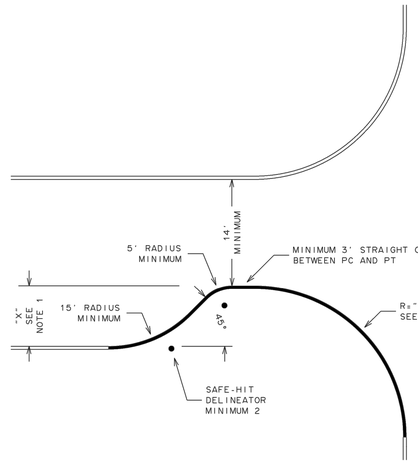
PROJECT TITLE: CHARLOTTE STREET & HAAGS ALLEY IMPROVEMENTS

NO.	REVISIONS	BY	DATE
1	Addendum #1	TAH	6/6

ISSUED: MARCH, 2016
CHECKED: D. SAVAGE
DRAWN: C. HARVEY
DESIGN: J. SUDOL
SCALE: N.T.S.
PROJECT NUMBER: 16116

DRAWING TITLE: MISCELLANEOUS DETAILS

DRAWING NO. 9 OF 36



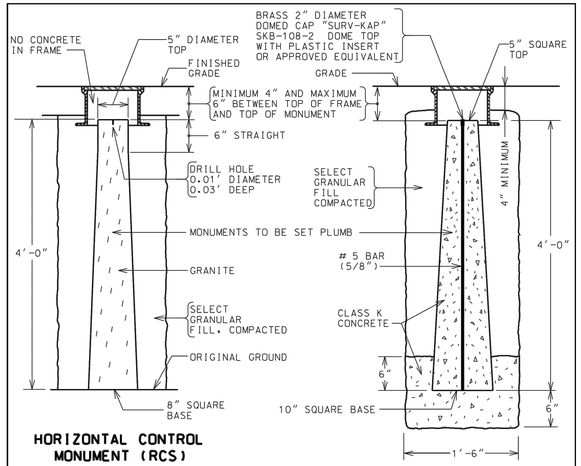
NOTES:

1. DIMENSIONS "X" AND "Y" WILL BE AS INDICATED IN CONTRACT DOCUMENTS.
2. TOTAL NUMBER AND LOCATION OF DELINEATORS WILL BE AS REQUIRED BY CITY.
3. DELINEATOR TO BE CENTERED 2 FEET OFF BACK EDGE OF CURB OR CONCRETE GUTTER.
4. SEE DETAIL S646-1 FOR DELINEATOR.

CITY OF ROCHESTER

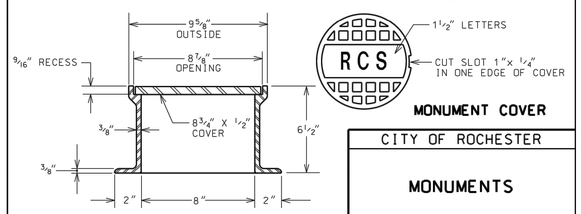
CURB BUMP-OUT

ISSUED	8-21-08	NON-STANDARD
REVISED	12-1-15	DWG.NO.S609-20



HORIZONTAL CONTROL MONUMENT (RCS)

VERTICAL CONTROL MONUMENT (RTS)



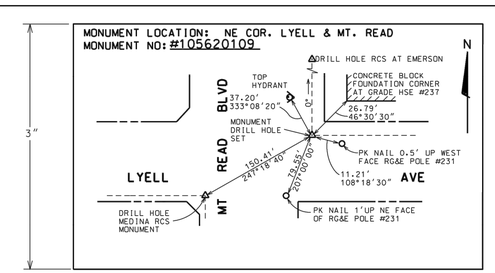
CAST IRON FRAME AND COVER

MONUMENT COVER

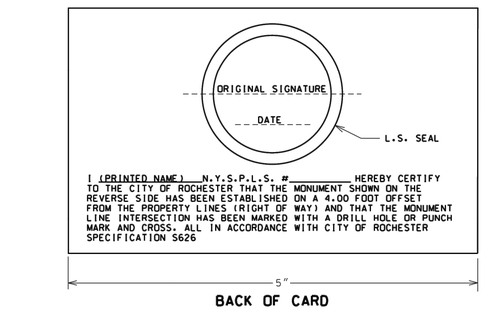
CITY OF ROCHESTER

MONUMENTS

ISSUED	9-2-91	STD. DWG.
REVISED	10-21-03	NO. R626-1



FRONT OF CARD

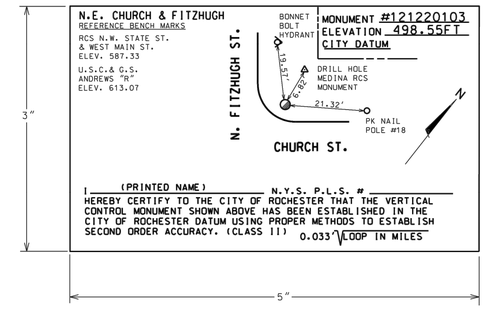


BACK OF CARD

CITY OF ROCHESTER

HORIZONTAL CONTROL MONUMENT CERTIFICATION CARD

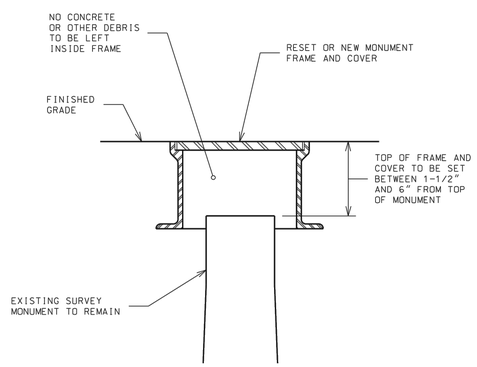
ISSUED	9-2-91	STD. DWG.
REVISED	10-21-03	NO. R626-2



CITY OF ROCHESTER

VERTICAL CONTROL MONUMENT CERTIFICATION CARD

ISSUED	9-2-91	STD. DWG.
REVISED	2-10-00	NO. R626-3



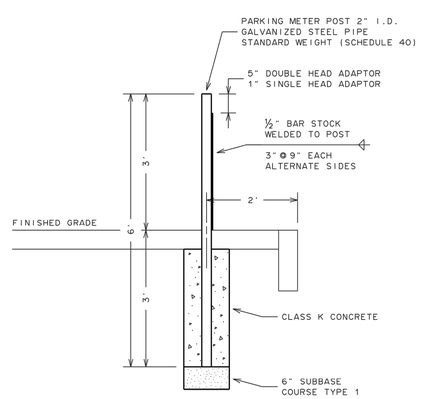
NOTES:

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.

CITY OF ROCHESTER

RESET/REPLACE MONUMENT FRAME AND COVER

ISSUED	1-13-06	NON-STANDARD
REVISED		DWG.NO.S626-6



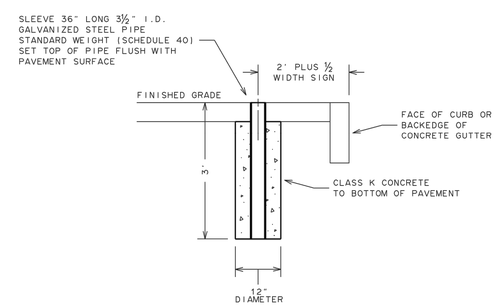
NOTES:

1. WHERE DISTANCE BETWEEN BACKEDGE OF SIDEWALK AND FACE OF CURB IS LESS THAN 7 FEET, OFFSET TO CENTER OF POST IS TO BE 18 INCHES.
2. TOP OF CONCRETE ENCASEMENT TO BE AT BOTTOM OF PAVEMENT SECTION, 4 INCHES BELOW FINISHED GRADE IN LAWN AREA.

CITY OF ROCHESTER

PARKING METER POST

ISSUED	9-2-91	STANDARD
REVISED	7-31-12	DWG.NO.R643-1



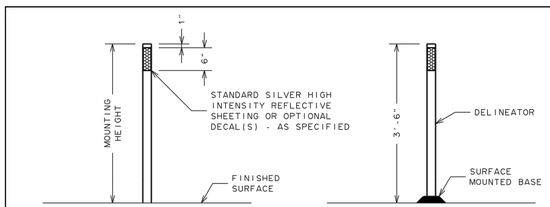
NOTE:

EXACT LOCATION OF SIGN POST SLEEVE WILL BE AS DIRECTED BY MONROE COUNTY DEPARTMENT OF TRANSPORTATION (MCDOT). IF THERE ARE ANY QUESTIONS REGARDING LOCATION, CALL MCDOT FOR FURTHER ASISTANCE AT (585) 753-7750.

CITY OF ROCHESTER

SIGN POST SLEEVE

ISSUED	9-2-91	STANDARD
REVISED	1-1-15	DWG.NO.R643-3

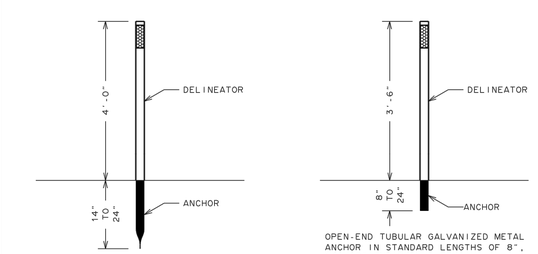


FLEXIBLE 2 1/4" DIAMETER YELLOW POLYETHYLENE PLASTIC TUBULAR POST WITH RECESSED CAP AND 1 3/4" INNER REINFORCEMENT TUBE

DELINEATOR

THERMOPLASTIC PIN-LOCK SURFACE MOUNTED BASE - APPLY BASE TO PAVEMENT WITH CONCRESSIVE EPOXY

SURFACE MOUNT



CLOSED-END DRIVE ABLE TUBULAR GALVANIZED METAL SOIL ANCHOR IN STANDARD LENGTHS OF 14",18" AND 24"

SOIL ANCHOR

OPEN-END TUBULAR GALVANIZED METAL ANCHOR IN STANDARD LENGTHS OF 8", 14",18" AND 24"

PAVEMENT ANCHOR

NOTE:

DELINEATOR TO BE TWO PIECE FLEXIBLE POLYETHYLENE PLASTIC ROUND POST FEATURING SELF-LOCKING SYSTEM FOR QUICK INSTALLATION PER SAFE-HIT TYPE 3 CHANNELIZER OR APPROVED EQUIVALENT.

CITY OF ROCHESTER

DELINEATOR

ISSUED	8-21-08	NON-STANDARD
REVISED	7-31-12	DWG.NO.S646-1

PASSERO ASSOCIATES
242 West Main Street Suite 100
Rochester, New York 14614
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www.passeroa.com

Department of Environmental Services
Architecture and Engineering Services
City of Rochester, New York

MANAGING ENGINEER ALBERT J. GIGLIO, P.E.
CITY ENGINEER JAMES R. McINTOSH, P.E.

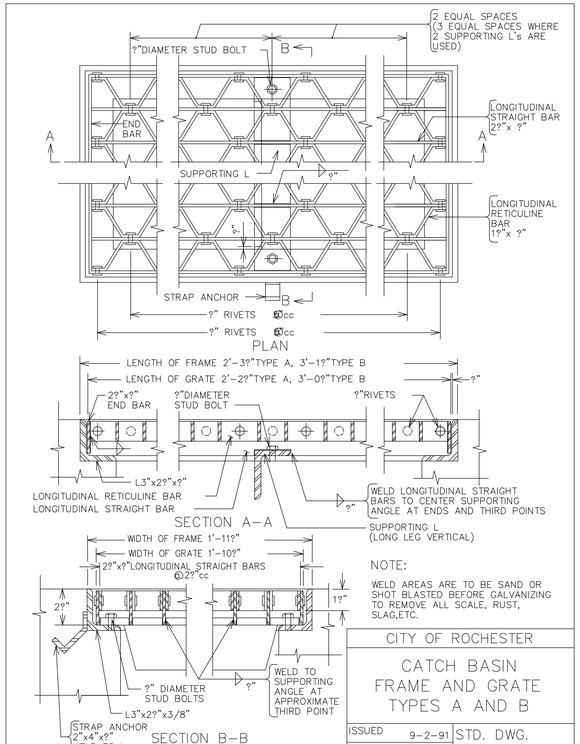
PROJECT TITLE
CHARLOTTE STREET & HAAGS ALLEY IMPROVEMENTS

NO.	REVISIONS	BY	DATE
1	Addendum #1	TAH	6/6

ISSUED	MARCH, 2016
CHECKED	D. SAVAGE
DRAWN	C. HARVEY
DESIGN	J. SUDOL
SCALE	N.T.S.
PROJECT NUMBER	16116

DRAWING TITLE
MISCELLANEOUS DETAILS

DRAWING NO. 10 OF 36



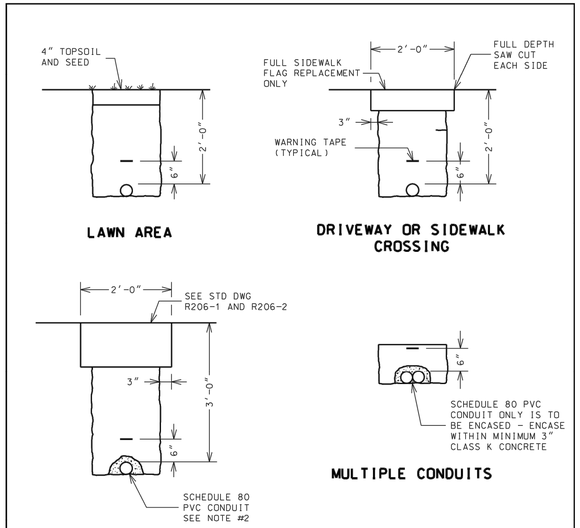
NOTE:

WELD AREAS ARE TO BE SAND OR SHOT BLASTED BEFORE GALVANIZING TO REMOVE ALL SCALE, RUST, SLAG,ETC.

CITY OF ROCHESTER

CATCH BASIN FRAME AND GRATE TYPES A AND B

ISSUED	9-2-91	STD. DWG.
REVISED	8-7-00	NO. R655-1



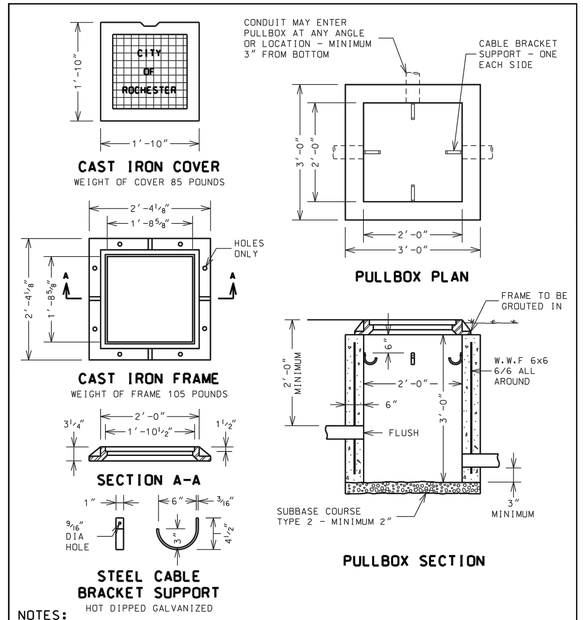
NOTES:

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 K CONCRETE - FROM PULLBOX TO PULLBOX. OR FROM PULLBOX TO LIGHT POLE.

CITY OF ROCHESTER

CONDUIT TRENCH

ISSUED	9-2-91	STD. DWG.
REVISED	4-28-06	NO. R671-1



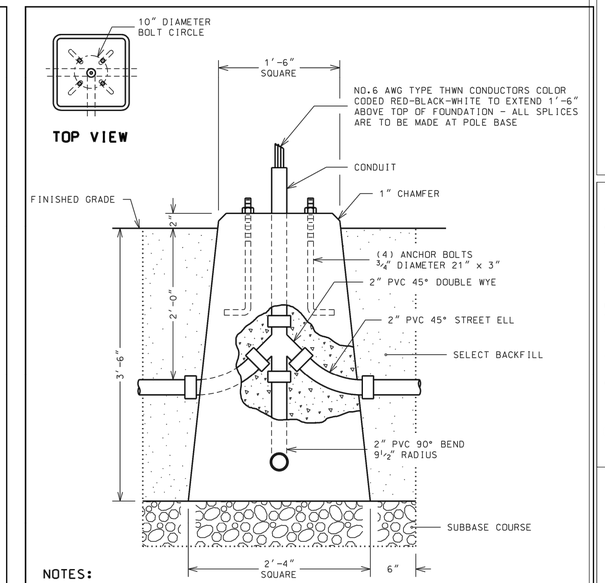
NOTES:

1. PULLBOX IS TO BE MADE OF CAST-IN-PLACE OR PRECAST CLASS K CONCRETE.
2. FRAME AND COVER ARE TO BE GRAY CAST IRON PER ASTM A48 CLASS 30 IN CONFORMANCE WITH THE REQUIREMENTS OF NYSDOT SECTION 715-05.
3. SIZE OF LETTERS TO BE 2 INCH.
4. TOP OF PULLBOX TO BE SET FLUSH IN PAVED AREA AND 1 INCH ABOVE GRADE IN LAWN AREA.

CITY OF ROCHESTER

CONCRETE PULLBOX (24 INCH)

ISSUED	9-2-91	STD. DWG.
REVISED	4-28-06	NO. R671-2



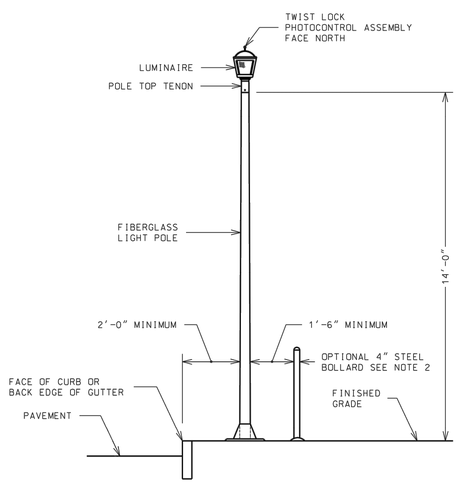
NOTES:

1. FOUNDATION TO BE MADE OF CLASS K CONCRETE. TOP OF FOUNDATION TO BE 2 INCHES ABOVE FINISHED GRADE.
2. TOP OF ANCHOR BOLTS TO EXTEND 2 INCHES ABOVE TOP OF FOUNDATION.
3. TOP OF CONDUIT TO EXTEND 6 INCHES ABOVE TOP OF FOUNDATION.
4. ALL CONDUIT CONNECTIONS IN FOUNDATION TO HAVE DOUBLE WYE TYPE OPENING.
5. SUPPLY TWO NEW LEVELING SHIMS FOR EACH EXISTING ANCHOR BOLT FOR LEVELING BASE PLATE AND TO PLUMB POLE.

CITY OF ROCHESTER

FIBERGLASS POLE PRECAST FOUNDATION

ISSUED	9-2-91	STD. DWG.
REVISED	4-28-06	NO. R671-9



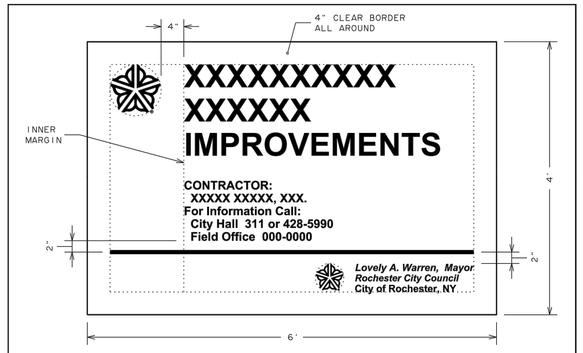
NOTES:

1. PRISMATIC REFRACTOR HAS A "STREET SIDE" AND A "HOUSE SIDE" WITH MARKINGS INDICATING LOCATION OF RIBS. REFRACTOR IS TO BE ORIENTED PROPERLY IN LUMINAIRE WHEN INSTALLED ON POLE.
2. BOLLARDS WILL BE INSTALLED ONLY IF REQUIRED AS SHOWN ON THE PLANS. BOLLARDS ARE NOT NORMALLY INSTALLED WITH LIGHT POLES.

CITY OF ROCHESTER

FIBERGLASS LIGHT POLE AND LUMINAIRE INSTALLATION

ISSUED	9-2-91	STD. DWG.
REVISED	4-28-06	NO. R671-16



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 3/4 INCH 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.

CITY OF ROCHESTER

PROJECT SIGN

ISSUED	5-7-01	NON-STANDARD
REVISED	1-1-14	DWG.NO.S999-2

PASSERO ASSOCIATES
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Department of Environmental Services
Architecture and Engineering Services
City of Rochester, New York

MANAGING ENGINEER: ALBERT J. GIGLIO, P.E.
CITY ENGINEER: JAMES R. McINTOSH, P.E.

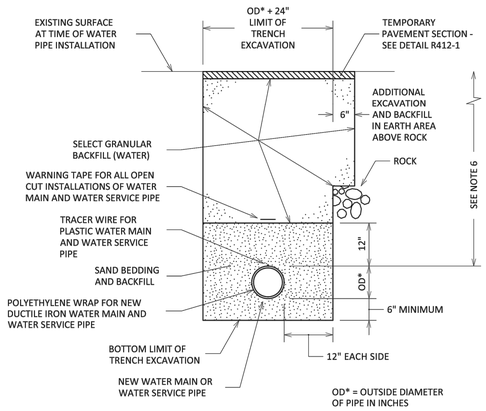
PROJECT TITLE: CHARLOTTE STREET & HAAGS ALLEY IMPROVEMENTS

NO.	REVISIONS	BY	DATE
1	Addendum #1	TAH	6/6

ISSUED	MARCH, 2016
CHECKED	D. SAVAGE
DRAWN	C. HARVEY
DESIGN	J. SUDOL
SCALE	N.T.S.
PROJECT NUMBER	16116

DRAWING TITLE: MISCELLANEOUS DETAILS

DRAWING NO. 11 OF 36



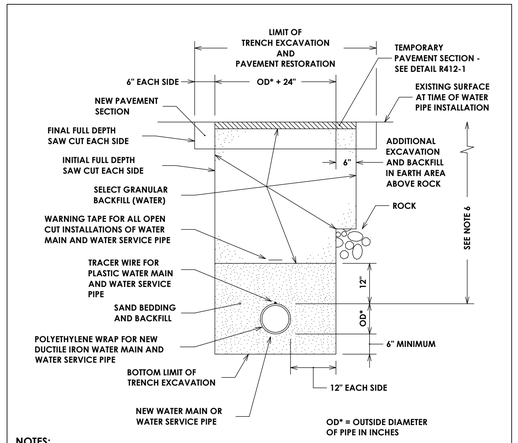
NOTES:

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.

CITY OF ROCHESTER

WATER TRENCH PAVEMENT RECONSTRUCTION

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



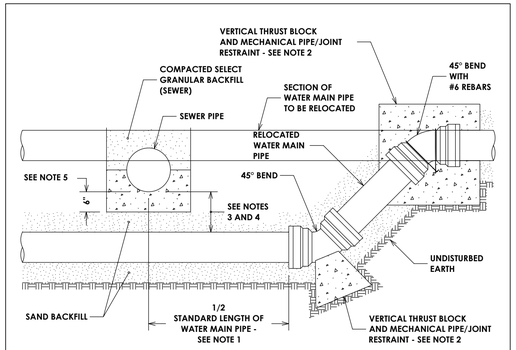
NOTES:

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.

CITY OF ROCHESTER

WATER TRENCH PAVEMENT REHABILITATION

ISSUED	1-13-06	NON-STANDARD
REVISED	11-22-10	DWG.NO.S900-2



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 FILLMATERIAL, 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.

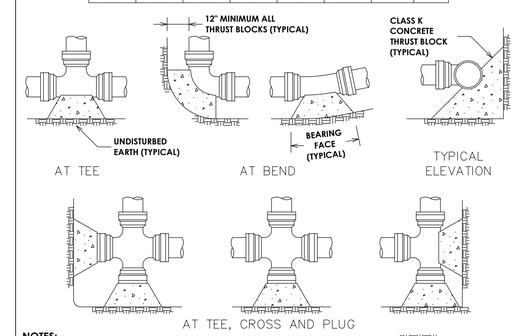
CITY OF ROCHESTER

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:

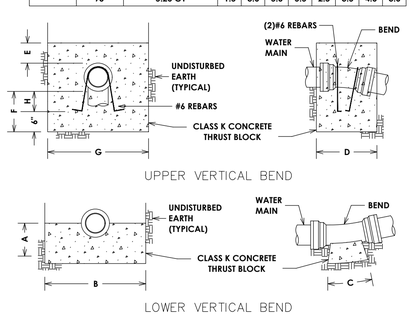
1. SPECIAL DESIGN IS REQUIRED FOR FITTINGS ON DOMESTIC WATER MAIN PIPE LARGER THAN 12 INCHES.
2. THRUST BLOCK IS TO BE POURED AGAINST UNDISTURBED EARTH. WIDTH OF THRUST BLOCK SHOULD BE APPROXIMATELY TWICE HEIGHT.
3. THRUST BLOCK IS TO BE INSTALLED AT ALL BENDS, PLUGS, TEES, AND TAPPING SLEEVE AND VALVE 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



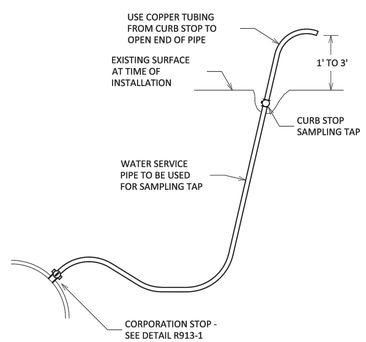
NOTES:

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



NOTES:

1. LOCATION OF SAMPLING TAPS ARE SUBJECT TO PRIOR APPROVAL BY CITY AND MONROE COUNTY DEPARTMENT OF PUBLIC HEALTH.
2. IF SAMPLING TAP IS LOCATED IN PAVED AREA, SAMPLING TAP IS TO BE KEPT BELOW GROUND EXCEPT WHEN IN USE.
3. IF APPROVED BY CITY, SAMPLING TAP MAY BE LOCATED AT SAME LOCATION AS NEW WATER SERVICE.
4. IF SAMPLING TAP IS NOT TO BE USED AS NEW WATER SERVICE, UPON NOTIFICATION OF ACCEPTABLE SAMPLE RESULTS, CORPORATION STOP IS TO BE REMOVED AND REPLACED WITH A BRASS PLUG OR CORPORATION STOP IS TO BE CLOSED, WATER SERVICE PIPE DISCONNECTED FROM CORPORATION AND BRASS CAP INSTALLED ON OUTLET OF CORPORATION STOP.
5. MAXIMUM DISTANCE BETWEEN SAMPLING TAPS ON NEW WATER MAIN INSTALLATION IS 1,000 FEET.

CITY OF ROCHESTER

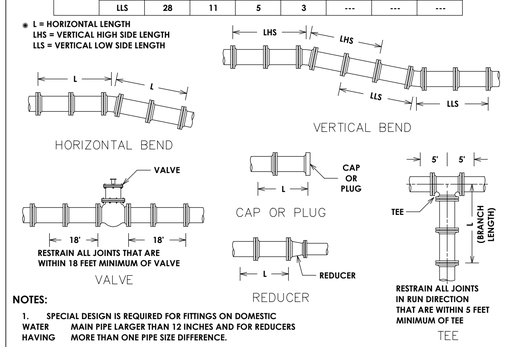
DISINFECTION SAMPLING TAP

ISSUED	1-13-06	NON-STANDARD
REVISED	2-19-15	DWG.NO.S900-6

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



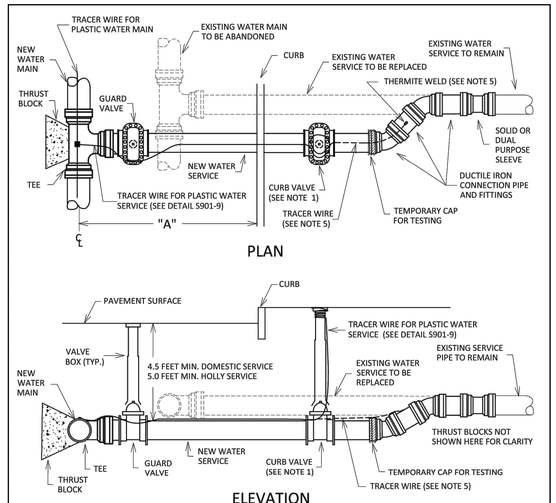
NOTES:

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



NOTES:

1. IF DIMENSION "A" BETWEEN THE CENTERLINE OF THE WATER MAIN AND THE FACE OF CURB IS 6 FEET OR LESS, THE CURB VALVE IS NOT REQUIRED.
2. ALL NEW SERVICE PIPE, FITTINGS AND VALVES SHALL BE RESTRAINED.
3. NEW WATER SERVICE SHALL BE PRESSURE TESTED FROM TEE TO TEMPORARY CAP IN ACCORDANCE WITH SPECIFICATION S900-3.05
4. WHEN LENGTH OF NEW WATER SERVICE EXCEEDS 50 FEET, SERVICE SHALL BE DISINFECTED IN ACCORDANCE WITH SPECIFICATION S900-3.06.
5. ON PLASTIC SERVICES, WHEN CURB VALVE IS NOT REQUIRED, EXTEND TRACER WIRE TO DUCTILE IRON CONNECTION PIPE AND FITTINGS AND ATTACH WIRE TO PIPE OR FITTING WITH THERMITE WELD.

CITY OF ROCHESTER

REPLACEMENT OF 4 INCH AND LARGER WATER SERVICE ON NEW WATER MAIN

ISSUED	3-23-11	NON-STANDARD
REVISED		DWG.NO.S900-11

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City of Rochester, New York

MANAGING ENGINEER ALBERT J. GIGLIO, P.E.
CITY ENGINEER JAMES R. McINTOSH, P.E.

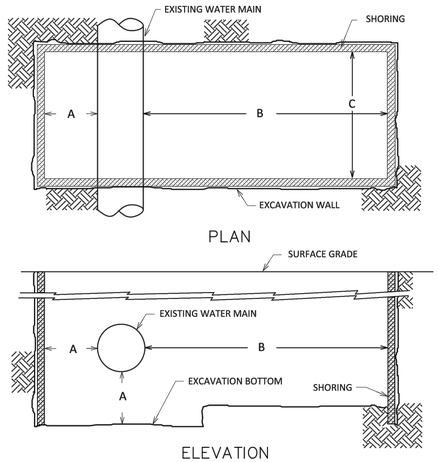
PROJECT TITLE
CHARLOTTE STREET & HAAGS ALLEY IMPROVEMENTS

NO.	REVISIONS	BY	DATE
1	Addendum #1	TAH	6/6

ISSUED	MARCH, 2016
CHECKED	D. SAVAGE
DRAWN	C. HARVEY
DESIGN	J. SUDOL
SCALE	N.T.S.
PROJECT NUMBER	16116

DRAWING TITLE
MISCELLANEOUS DETAILS

DRAWING NO.
12
OF
36



NOTES:

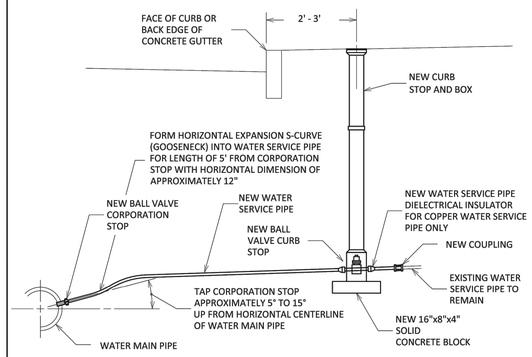
1. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL EXCAVATIONS ARE ADEQUATELY PROTECTED IN ACCORDANCE WITH OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS.
2. SHORING MUST BE FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH OSHA REGULATIONS, AND ADEQUATE CLEARANCES PROVIDED, WHEREVER WATER BUREAU PERSONNEL MUST ENTER AN EXCAVATION. EXCEPTIONS TO THIS POLICY CAN ONLY BE MADE BY THE DIRECTOR OF WATER OR HIS REPRESENTATIVE.
3. THE CONTRACTOR SHALL MAKE AND SHORE THE EXCAVATION, CLEAN THE AREA OF THE WATER MAIN FOR THE TAP, ATTACH THE TAPPING SLEEVE AND VALVE TO THE MAIN FOR SERVICES 4-INCH DIAMETER AND LARGER OR ATTACH THE TAPPING SADDLE (WHERE REQUIRED) TO THE MAIN FOR SERVICES 2-INCH DIAMETER AND SMALLER AND INSURE THAT THE WORK AREA IS READY FOR INSPECTION BY BUREAU PERSONNEL PRIOR TO MAKING THE TAP.

MINIMUM CLEARANCE DIMENSIONS			
EXCAVATION FOR	A	B	C
SMALL SERVICE TAP (2-INCH AND SMALLER)	0'-6"	5'-0"	4'-0"
LARGE SERVICE TAP (4-INCH AND LARGER)	1'-0"	7'-0"	4'-0"

CITY OF ROCHESTER

WATER SERVICE TAP EXCAVATION

ISSUED 4-29-11 | NON-STANDARD
REVISED | DWG.NO.S900-12



NOTES:

1. WATER SERVICE PIPE IS TO HAVE MINIMUM COVER DEPTH OF 4.50 FEET FROM FINISHED SURFACE.
2. WATER SERVICE TAP IS TO BE MADE ON CUSTOMER SIDE OF WATER MAIN PIPE. FOR PLASTIC WATER MAIN PIPE USE WIDE STRAP BRASS TAPPING SADDLE. FOR CAST/DUCTILE IRON WATER MAIN PIPE USE DOUBLE STRAP BRASS TAPPING SADDLE, SEE TABLE.
3. WATER SERVICE PIPE IS TO RUN PERPENDICULAR TO WATER MAIN PIPE.
4. FOR WATER SERVICE PIPE 1½ INCHES AND LARGER, ADD CURB BOX ARCH TO CURB BOX.
5. TRACER WIRE MUST BE INSTALLED FOR PLASTIC WATER SERVICE PIPE, SEE DETAILS S901-9 AND S901-11.
6. MAGNESIUM ANODE MUST BE INSTALLED FOR COPPER WATER SERVICE PIPE, SEE DETAIL S966-3.
7. WARNING TAPE MUST BE INSTALLED WITH ALL OPEN CUT TRENCHED WATER SERVICE PIPE INSTALLATIONS.
8. REFER TO WATER BUREAU'S APPROVED PRODUCT LIST FOR LIST OF APPROVED WATER SERVICE PRODUCTS.

SERVICE SADDLE REQUIREMENTS FOR TAPS ON CAST/DUCTILE IRON WATER MAIN PIPE	
WATER MAIN PIPE SIZE (INCHES)	MAXIMUM TAP SIZE ALLOWED w/o SERVICE SADDLE (INCHES)
4" - 6"	ALL TAPS REQUIRE SADDLE
8" - 10"	¾"
12"	1"
16" AND LARGER	1½"

CITY OF ROCHESTER

WATER SERVICE PIPE 2 INCH AND SMALLER

ISSUED 9-2-91 | STD. DWG.
REVISED 6-1-09 | NO. R913-1

CITY OF ROCHESTER
WATER SERVICE INSTALLATION DATA

PROPERTY ADDRESS: _____

STREET SERVICE TAPPED ON (IF DIFFERENT): _____

DATE OF INSTALLATION: _____ DOMESTIC OR HOLLY SYSTEM? _____

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

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

CONTRACTOR/PLUMBER: _____

TAP INSTALLED BY: _____ INSPECTOR: _____

CURB OR OPERATING VALVE LOCATION ✱: _____

TAP OR GUARD VALVE LOCATION (IF DIFFERENT): _____

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

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

INSIDE SERVICE MATERIAL & SIZE: _____

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

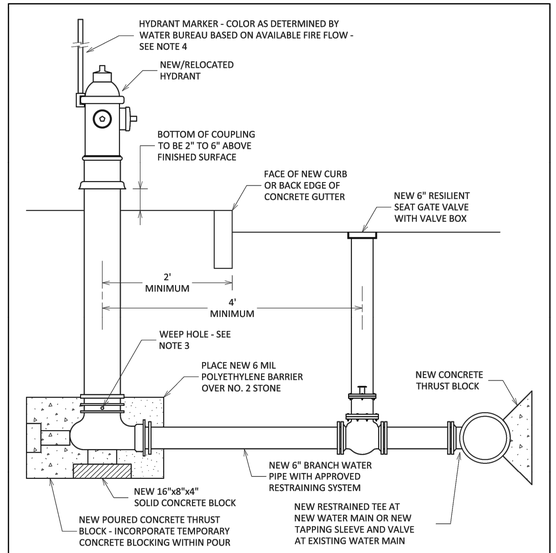
NOTES:

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

CITY OF ROCHESTER

WATER SERVICE CARD

ISSUED 9-2-91 | STD. DWG.
REVISED 10-23-13 | NO. R913-3



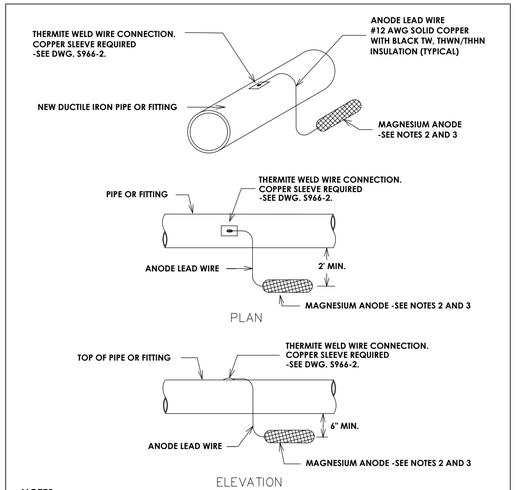
NOTES:

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 AND INSTALLED BY WATER BUREAU UNLESS OTHERWISE NOTED ON PLANS OR AS DIRECTED BY PROJECT MANAGER.

CITY OF ROCHESTER

HYDRANT AND VALVE WITH NEW BRANCH

ISSUED 9-2-91 | STD. DWG.
REVISED 2-19-15 | NO. R917-1



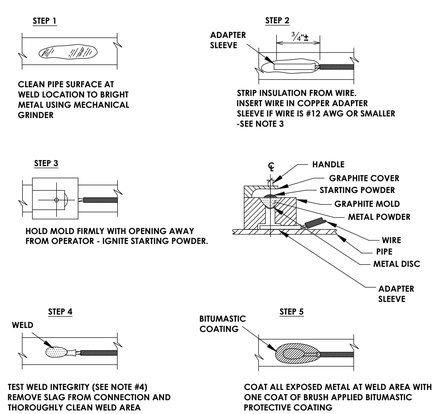
NOTES:

1. PIPE/FITTING PROTECTIVE WRAP IS NOT SHOWN FOR CLARITY. UNLESS OTHERWISE NOTED, DUCTILE IRON WATER MAIN SHALL BE WRAPPED WITH POLYETHYLENE WRAP AND NON-EPOXY COATED DUCTILE IRON FITTINGS ON PLASTIC WATER MAINS SHALL BE COATED WITH PRIMER AND WAX TAPE.
2. USE HIGH POTENTIAL MAGNESIUM ANODE IN PREPACKAGED CLOTH BAG WITH BACKFILL. WEIGHT OF ANODE INGOT (EXCLUDING BACKFILL) AND SPACING OF ANODES ALONG DUCTILE IRON WATER MAIN AS NOTED ON PLANS OR AS DIRECTED BY PROJECT MANAGER.
3. ANODE IS TO BE PLACED IN TRENCH WITH ANODE CENTERLINE 6 INCHES MINIMUM BELOW BOTTOM OF PIPE OR FITTING AND 2 FEET MINIMUM FROM SIDE WALL OF PIPE OR FITTING. ANODE TO BE SURROUNDED WITH NATIVE BACKFILL.

CITY OF ROCHESTER

ANODE AT NEW DUCTILE IRON WATER MAIN OR DUCTILE IRON FITTING ON NEW PLASTIC WATER MAIN

ISSUED 3-21-02 | NON-STANDARD
REVISED 12-28-10 | DWG.NO.S966-1



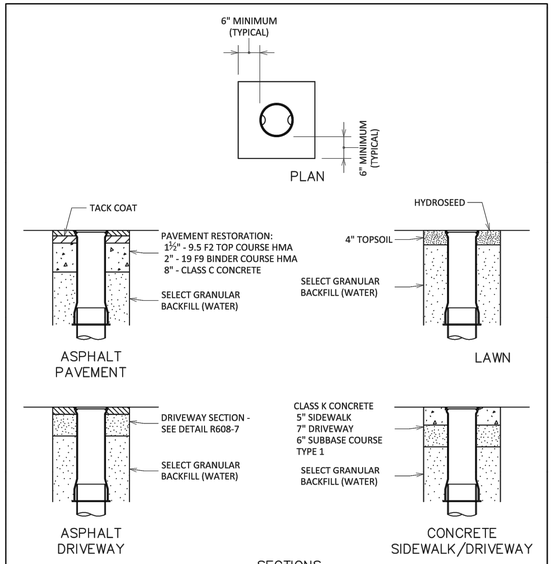
NOTES:

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



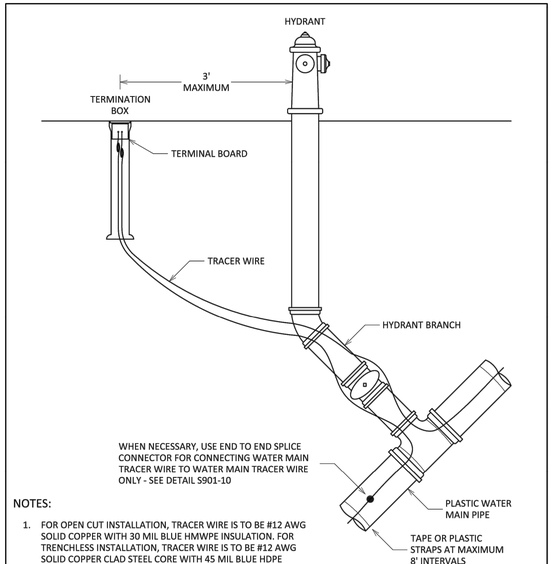
NOTES:

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. FOR OPEN CUT INSTALLATION, TRACER WIRE IS TO BE #12 AWG SOLID COPPER WITH 30 MIL BLUE HMWPE INSULATION. FOR TRENCHLESS INSTALLATION, TRACER WIRE IS TO BE #12 AWG SOLID COPPER CLAD STEEL CORE WITH 45 MIL BLUE HDPE INSULATION.
2. FOR PLASTIC WATER MAIN PIPE, TRACER WIRE IS TO RUN ALONG TOP OF AND BE SECURED TO WATER MAIN PIPE WITH PLASTIC STRAPS OR TAPE PLACED AT MAXIMUM 8 FEET INTERVALS. AT WATER VALVE, TRACER WIRE IS TO RUN ALONG SIDE OF PLASTIC WATER MAIN PIPE.
3. TRACER WIRE IS TO BE CONNECTED TO TERMINATION BOX INSTALLED ADJACENT TO HYDRANT. EXTEND TRACER WIRE UP INSIDE OF TERMINATION BOX LEAVING MINIMUM OF 3 FEET OF TRACER WIRE COILED UP INSIDE TOP OF TERMINATION BOX. CONNECT END OF TRACER WIRE TO TERMINAL BOARD.

CITY OF ROCHESTER

PLASTIC WATER MAIN TRACER WIRE INSTALLATION

ISSUED 1-13-06 | NON-STANDARD
REVISED 6-1-09 | DWG.NO.S901-8

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City of Rochester, New York

MANAGING ENGINEER ALBERT J. GIGLIO, P.E.
CITY ENGINEER JAMES R. McINTOSH, P.E.

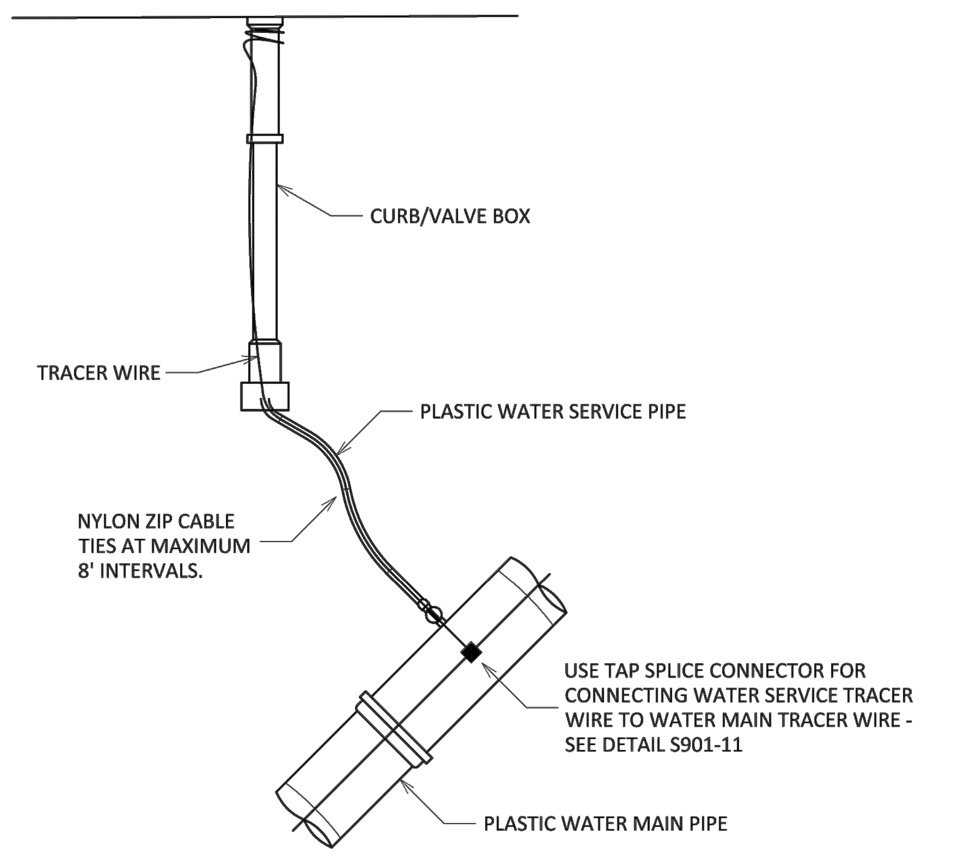
PROJECT TITLE
CHARLOTTE STREET & HAAGS ALLEY IMPROVEMENTS

NO.	REVISIONS	BY	DATE
1	Addendum #1	TAH	6/6

ISSUED MARCH, 2016
CHECKED D. SAVAGE
DRAWN C. HARVEY
DESIGN J. SUDOL
SCALE N.T.S.
PROJECT NUMBER 16116

DRAWING TITLE
MISCELLANEOUS DETAILS

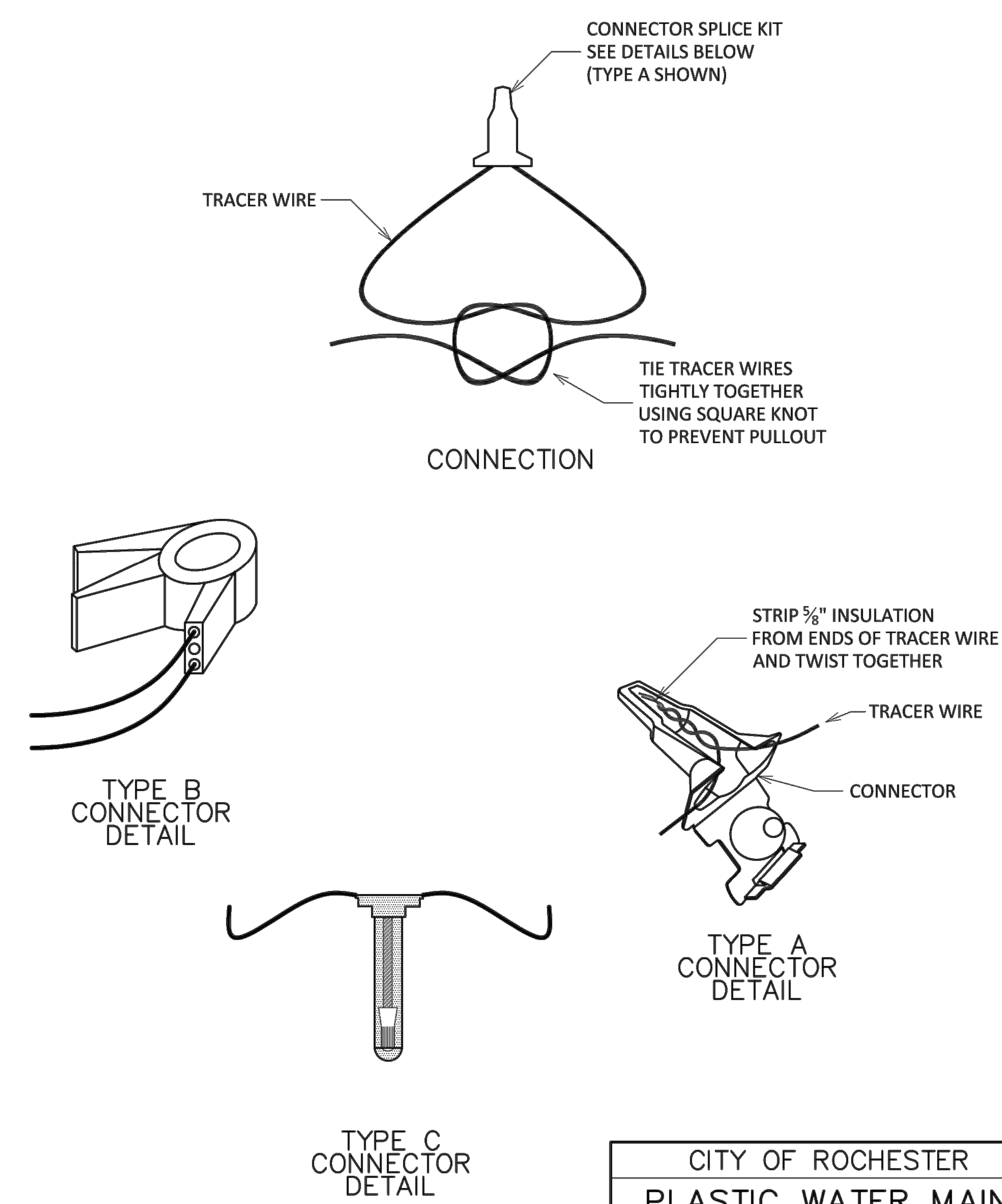
DRAWING NO.
13
OF
36



NOTES:

1. FOR OPEN CUT INSTALLATION, TRACER WIRE IS TO BE #12 AWG SOLID COPPER WITH 30 MIL BLUE HMWPE INSULATION. FOR TRENCHLESS INSTALLATION, TRACER WIRE IS TO BE #12 AWG SOLID COPPER CLAD STEEL CORE WITH 45 MIL BLUE HDPE INSULATION.
2. FOR NEW PLASTIC WATER SERVICE PIPE CONNECTED TO PLASTIC WATER MAIN PIPE, WATER SERVICE TRACER WIRE IS TO BE SPLICED TO WATER MAIN TRACER WIRE AND EXTENDED UP TO TOP OF CURB/VALVE BOX. WATER SERVICE TRACER WIRE IS TO RUN ALONG TOP OF AND BE SECURED TO PLASTIC WATER SERVICE PIPE WITH NYLON ZIP CABLE TIES PLACED AT MAXIMUM 8 FEET INTERVALS.
3. FOR CURB/VALVE BOX IN LAWN AREA, EXTEND WATER SERVICE TRACER WIRE UP OUTSIDE OF CURB/VALVE BOX WINDING END 3 TIMES AROUND AND APPROXIMATELY 1 INCH BELOW TOP OF CURB/VALVE BOX. FOR CURB/VALVE BOX IN PAVED AREA, EXTEND WATER SERVICE TRACER WIRE UP INSIDE OF CURB/VALVE BOX LEAVING MINIMUM OF 3 FEET OF WATER SERVICE TRACER WIRE COILED UP INSIDE TOP OF CURB/VALVE BOX.
4. FOR NEW PLASTIC WATER SERVICE PIPE CONNECTED TO CAST/DUCTILE IRON WATER MAIN PIPE, WATER SERVICE TRACER WIRE IS TO BE CONNECTED TO CORPORATION STOP WITH BRASS THAW WIRE NUT COMPRESSION ASSEMBLY WITH SET SCREW.

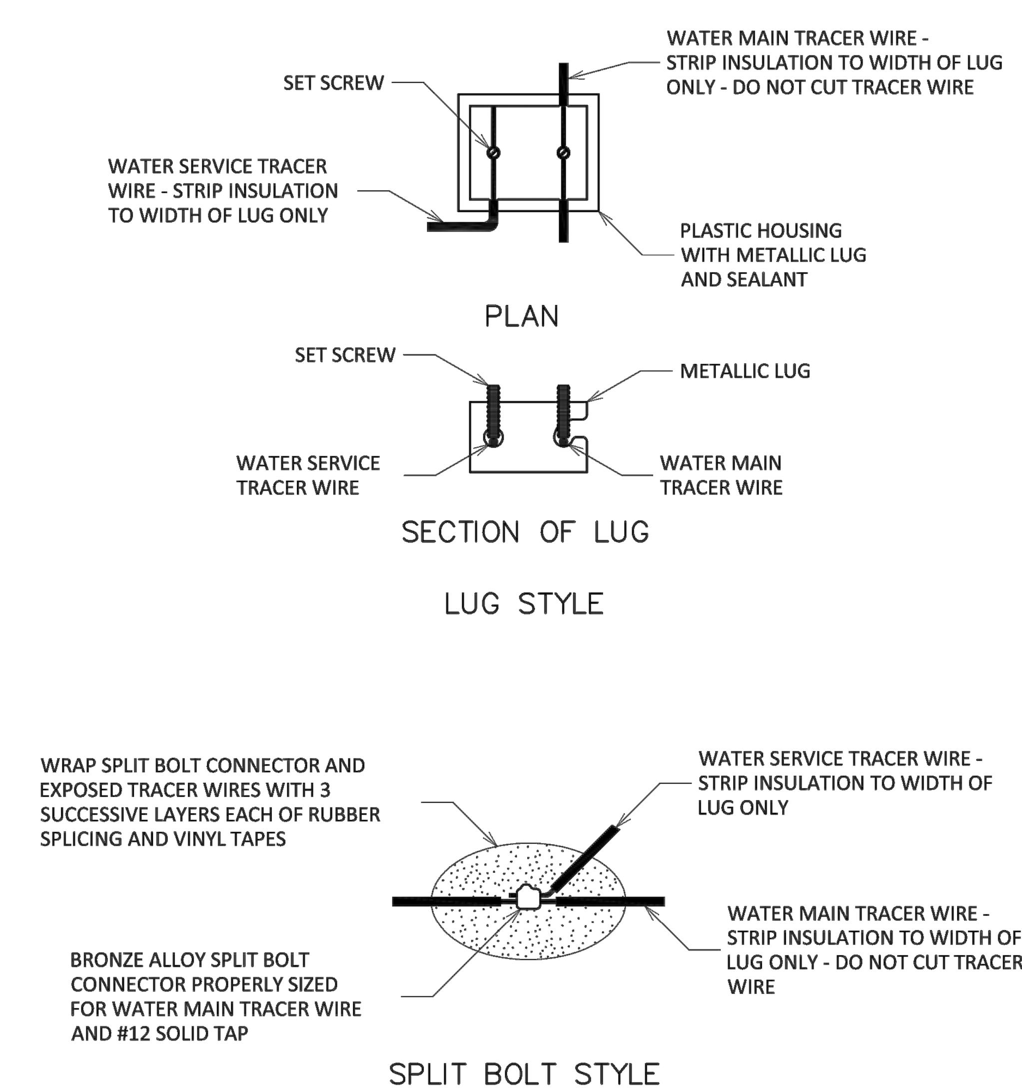
CITY OF ROCHESTER
PLASTIC WATER SERVICE TRACER WIRE INSTALLATION
ISSUED 1–13–06 NON–STANDARD
REVISED 2–19–15 DWG.NO.S901–9



NOTE:

END TO END SPLICE CONNECTION IS TO BE USED ONLY FOR SPLICING TWO ENDS OF WATER MAIN TRACER WIRE TOGETHER WITH CONNECTION BEING MADE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

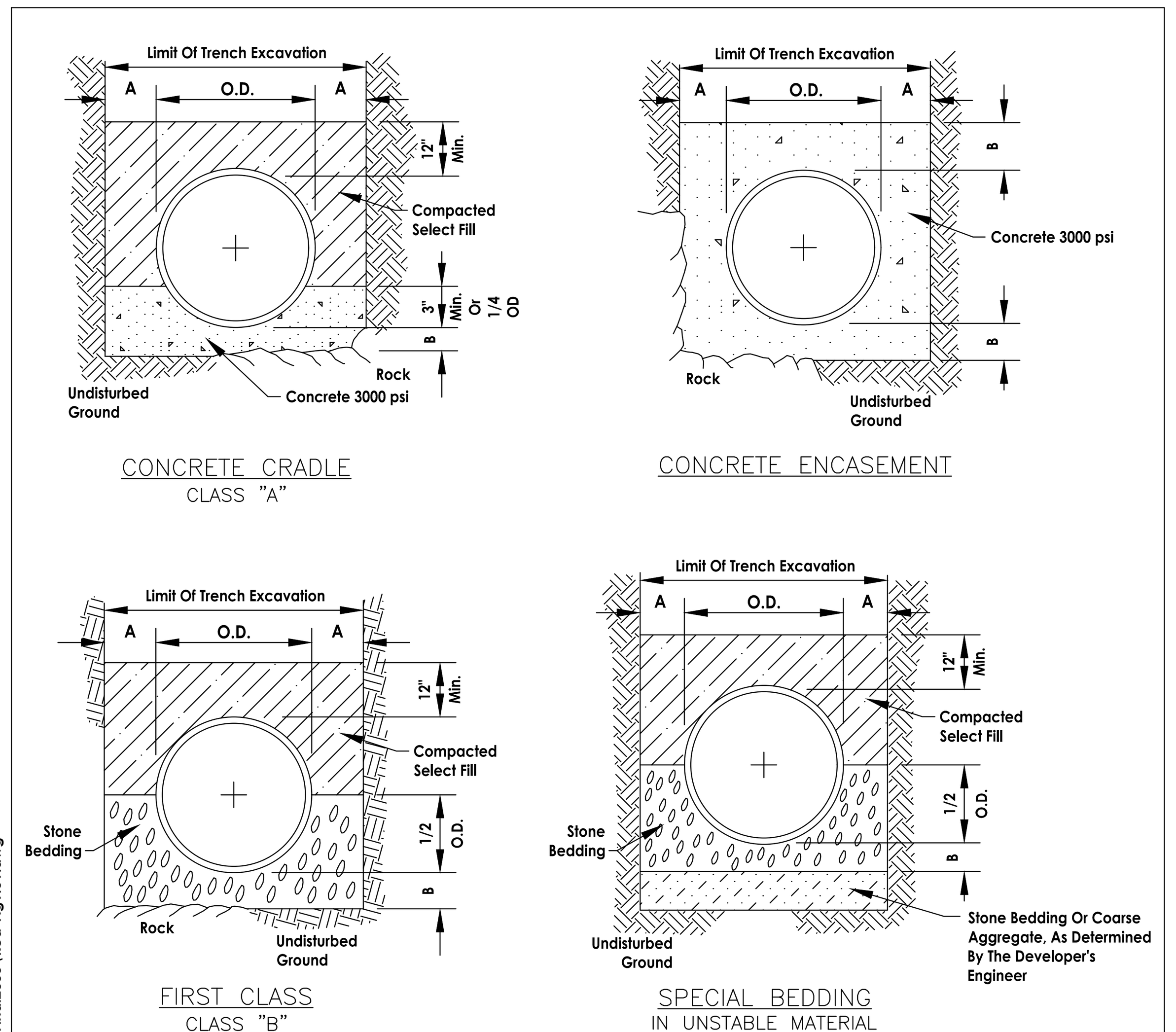
CITY OF ROCHESTER
PLASTIC WATER MAIN TRACER WIRE END TO END SPLICE CONNECTION
ISSUED 6–1–09 NON–STANDARD
REVISED 2–19–15 DWG.NO.S901–10



NOTE:

TAP SPLICE CONNECTION IS TO BE USED FOR CONNECTING WATER SERVICE TRACER WIRE TO WATER MAIN TRACER WIRE WITH CONNECTION BEING MADE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

CITY OF ROCHESTER
PLASTIC WATER SERVICE TRACER WIRE TAP SPLICE CONNECTION
ISSUED 6–1–09 NON–STANDARD
REVISED DWG.NO.S901–11



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Time Printed: Tues Feb 15 09:45 2005

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

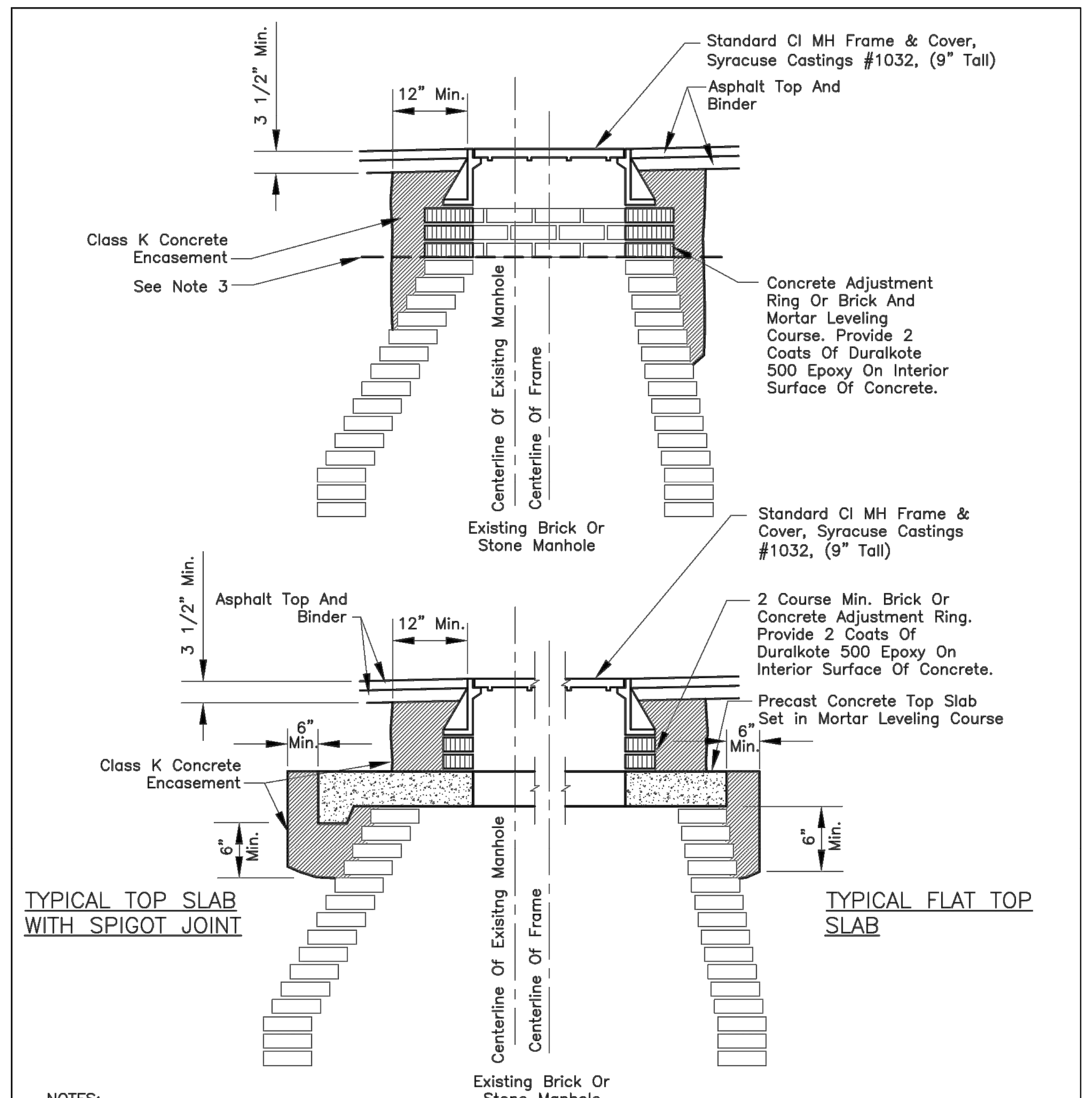
NOTES:

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.

   This Figure 1.01 applies to Pure Waters sanitary, storm, and combined mainline sewers and lateral pipe installations, as well as forcemains.
5.

Final 02–15–2005

MONROE COUNTY PURE WATERS
Feb 2005 | BEDDING DETAILS | FIGURE 1.01

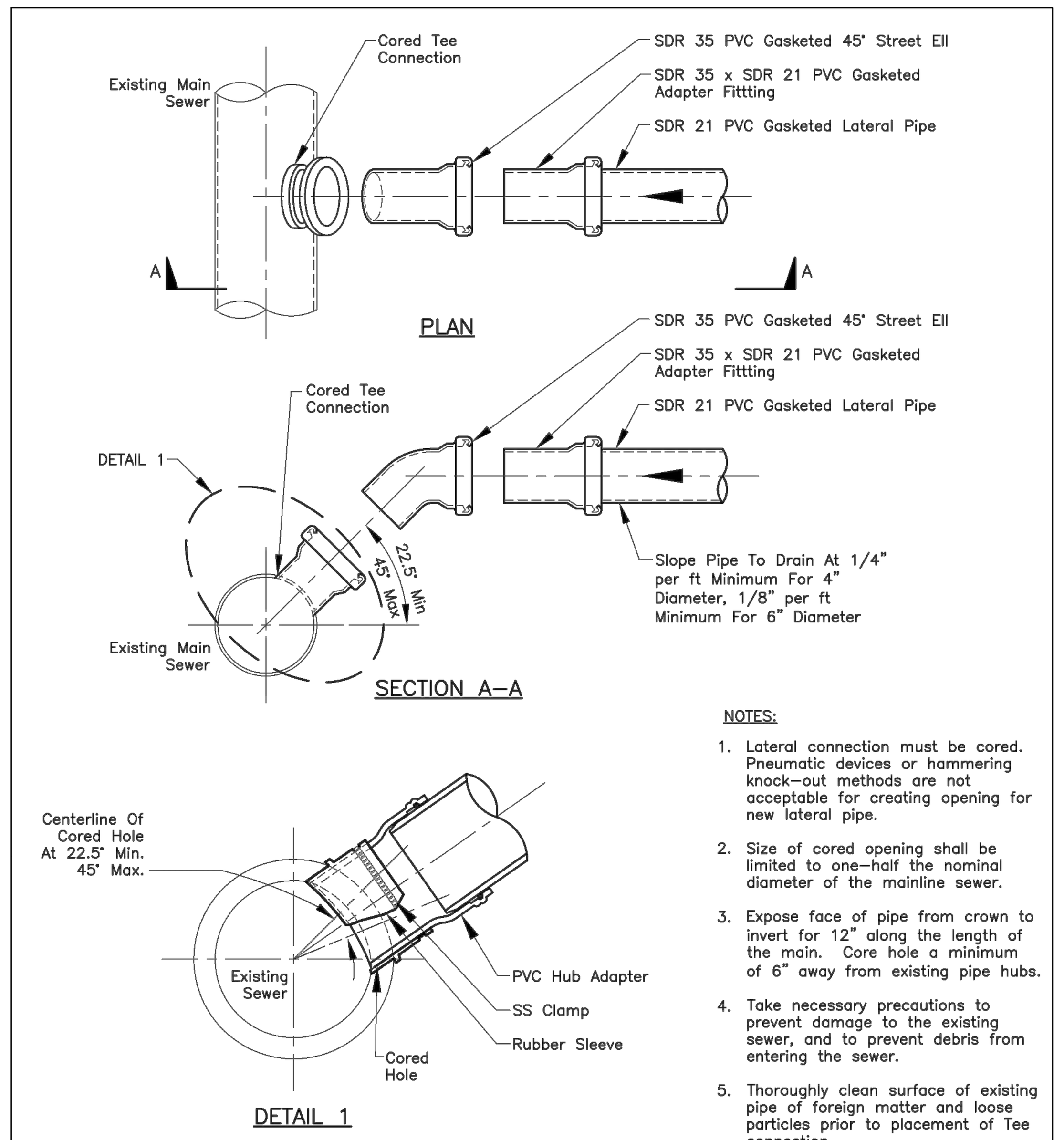


NOTES:

1. Provide appropriate measures to prevent surface water, mud, and foreign material from entering the sewer system during construction, by plugging, pumping, bailing, and other work as necessary.
2. Remove/Add courses of brick/block, or install concrete adjustment ring to retrofit manhole frame and cover onto existing manhole riser at the required finished grade.
3. The lower limit of the Class K concrete encasement shall be at, or below, the lowest portion of the leveling course.
4. Brick for frame leveling course, ASTM C32, Grade SS.

Typical Detail for City Of Rochester Street Improvement Projects. Other Use Requires RPWD Approval.
Former City of Rochester Std. Dwg. No. R604–10

MONROE COUNTY PURE WATERS
MARCH 2007 | MANHOLE FRAME AND COVER ADJUSTMENT FOR BRICK AND STONE STRUCTURES | FIGURE 2.04



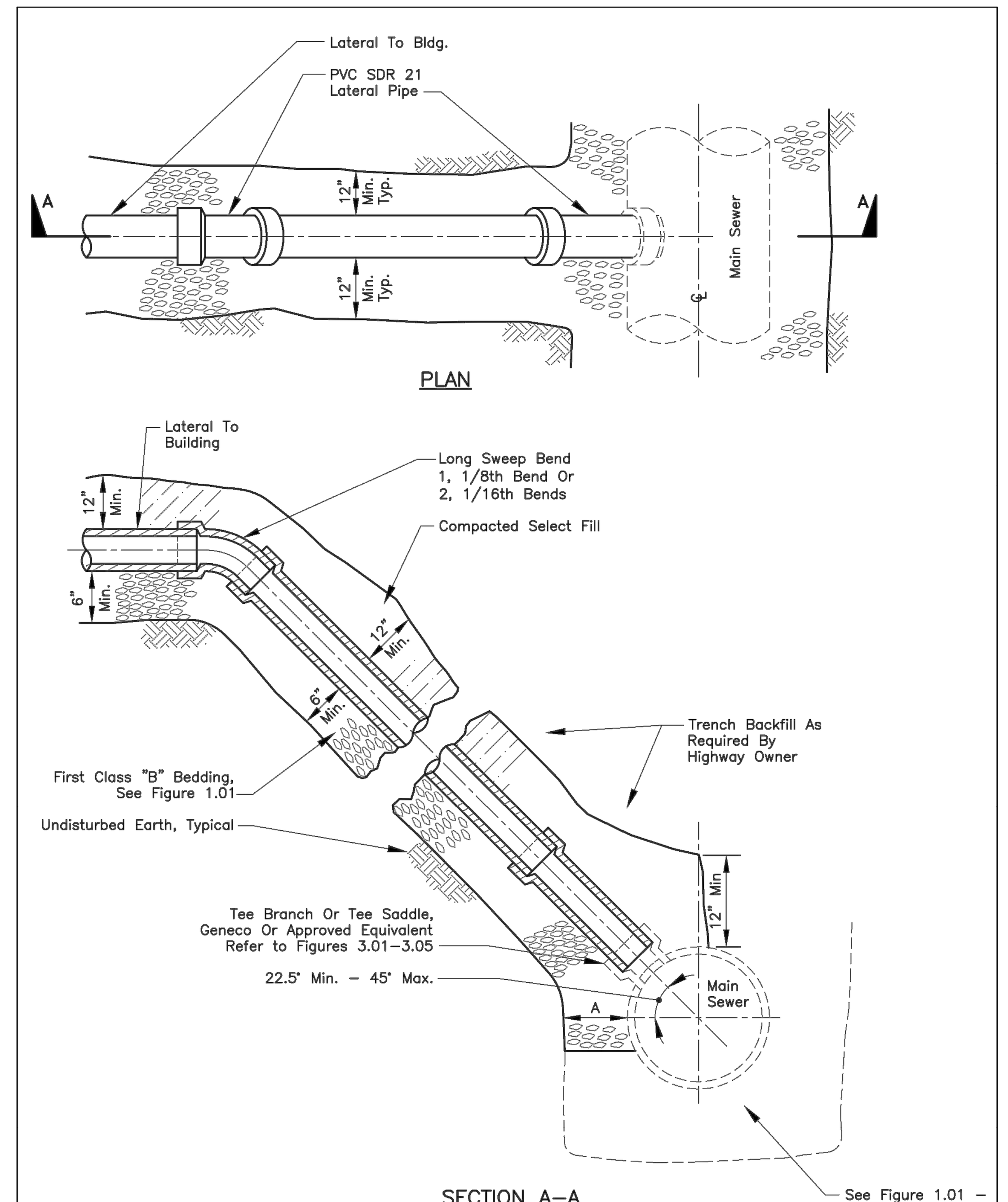
INSERTA TEE SIZE	HOLE DIAMETER
4" (100mm)	4–1/2" (112.5mm)
6" (150mm)	6–1/2" (162.5mm)
8" (200mm)	8–3/4" (218.8mm)
10" (250mm)	10–7/8" (271.9mm)
12" (300mm)	12–7/8" (321.8mm)
15" (375mm)	15–13/16" (395.3mm)

Required method of cutting hole is with hole saw for PVC and polyethylene, and diamond bit for concretes, clay, and ductile iron.

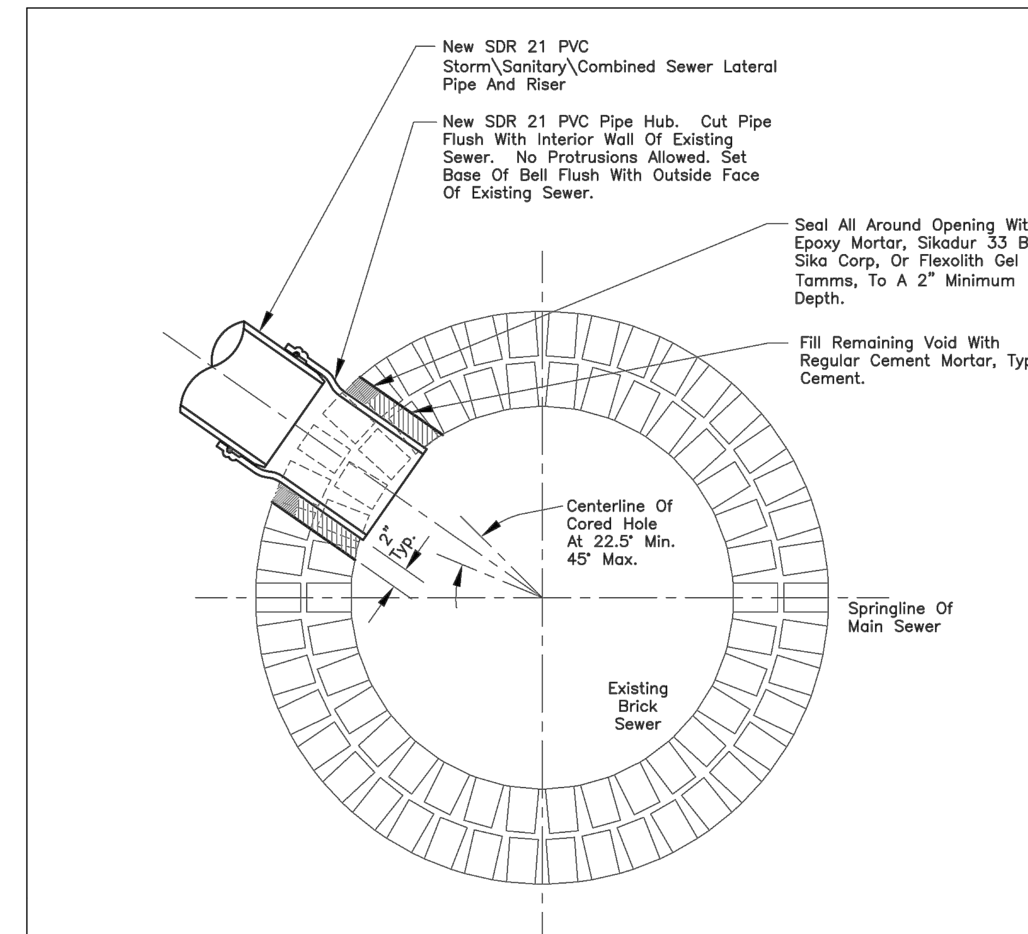
NOTES:

1. Lateral connection must be cored. Pneumatic devices or hammering knock–out methods are not acceptable for creating opening for new lateral pipe.
2. Size of cored opening shall be limited to one–half the nominal diameter of the mainline sewer.
3. Expose face of pipe from crown to invert for 12" along the length of the main. Core hole a minimum of 6" away from existing pipe hubs.
4. Take necessary precautions to prevent damage to the existing sewer, and to prevent debris from entering the sewer.
5. Thoroughly clean surface of existing pipe of foreign matter and loose particles prior to placement of Tee connection.
6. Tee connection: Inserta Tee by Inserta Fittings Co., or approved equal.
7. Lateral connections 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 connection. Telephone (585) 760–7600, Option 5.

MONROE COUNTY PURE WATERS
Feb 2005 | INSERT TYPE CORED TEE CONNECTION TO EXISTING SEWER | FIGURE 3.02



MONROE COUNTY PURE WATERS
Feb 2005 | LATERAL RISER CONNECTION | FIGURE 3.06



CORED CONNECTION TO BRICK OR BLOCK SEWER DETAIL

NOTES:

1. Lateral connection must be cored. Pneumatic devices or hammering knock–out methods are not acceptable for creating opening for new lateral pipe.
2. Lateral connections 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 connection. Telephone (585) 760–7600, Option 5.
3. Take necessary precautions to prevent damage to the existing sewer, and to prevent debris from entering the sewer.
4. Lateral connections larger than 6" diameter will require special design and approval. Laterals larger than 6" diameter will not be maintained by the District.

MONROE COUNTY PURE WATERS
Feb 2005 | TYPICAL CORED CONNECTION TO BRICK OR BLOCK SEWER | FIGURE 3.08

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City of Rochester, New York

MANAGING ENGINEER ALBERT J. GIGLIO, P.E.
CITY ENGINEER JAMES R. McINTOSH, P.E.

PROJECT TITLE
CHARLOTTE STREET & HAAGS ALLEY IMPROVEMENTS

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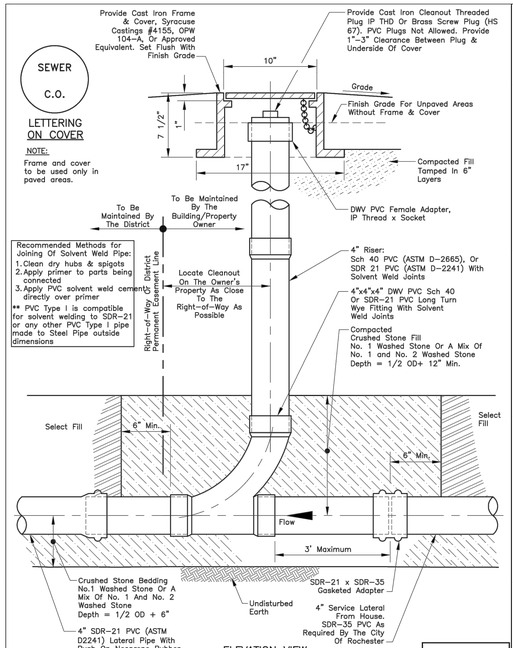
ISSUED MARCH, 2016
CHECKED D. SAVAGE
DRAWN C. HARVEY
DESIGN J. SUDOL
SCALE N.T.S.
PROJECT NUMBER 16116

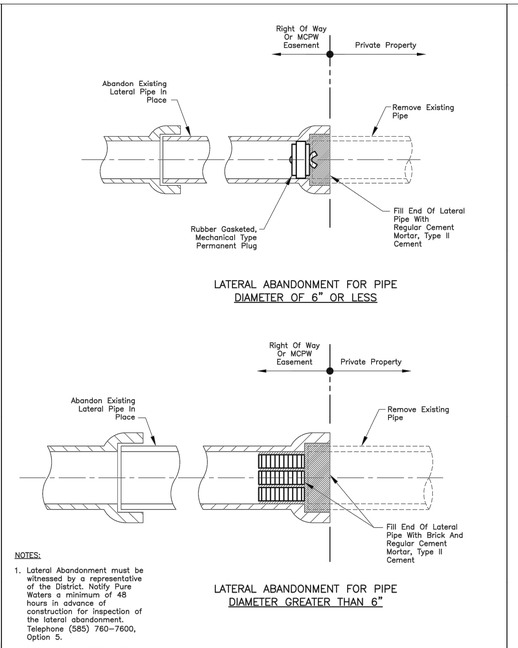
DRAWING TITLE
MISCELLANEOUS DETAILS

DRAWING NO.
14 OF 36



MONROE COUNTY PURE WATERS

Feb 2005	RPWD RECOMMENDED CLEANOUT FOR NEW 4" LATERAL CONNECTION	FIGURE 4.03

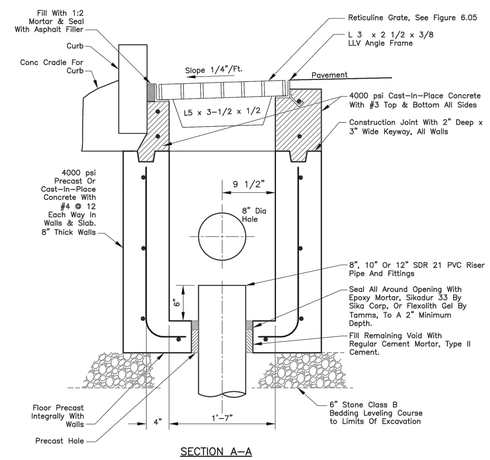


NOTES:

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.

MONROE COUNTY PURE WATERS

Feb 2005	LATERAL ABANDONMENT DETAIL	FIGURE 5.01



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.

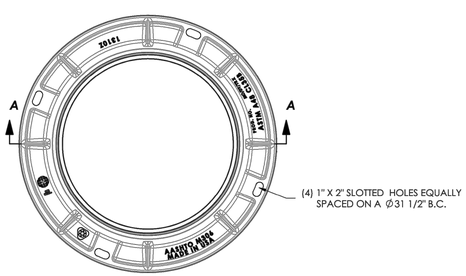
Special Detail. Use Requires RPWD Approval.

Former City of Rochester Std. Dwg. No. R604-4

MONROE COUNTY PURE WATERS

MARCH 2007	TYPE A & B CATCH BASIN WITH BOTTOM CONNECTION	FIGURE 6.03

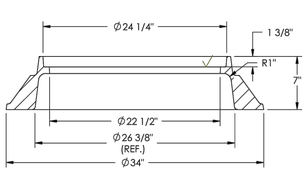
1310 Frame



Product Number
00131010

Design Features
-Materials
Gray Iron (CL35)
-Design Load
Heavy Duty
-Open Area
n/a
-Coating
Dipped
-√ Designates Machined Surface

Certification
-ASTM A48
-
-
-Country of Origin: USA



SECTION A-A

Drawing Revision
3/16/2012 Designer: DJH
4/24/2012 Revised By: DJH

Disclaimer
Weights (lbs/kg), dimensions (inches/mm) and drawings provided for your guidance. We reserve the right to modify specifications without prior notice.

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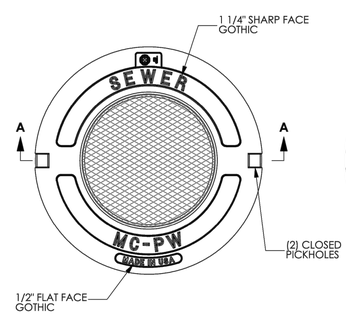
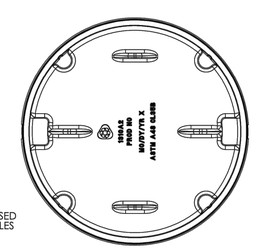
1310A2 Cover



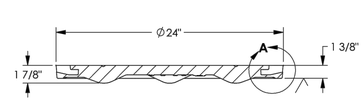


BOTTOM VIEW

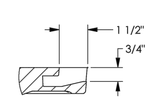
Product Number
00131094

Design Features
-Materials
Gray Iron (CL35B)
-Design Load
Heavy Duty
-Open Area
n/a
-Coating
Undipped
-√ Designates Machined Surface

Certification
-ASTM A48
-
-
-Country of Origin: USA



SECTION A-A



DETAIL A
PICKHOLE

Drawing Revision
1/19/2012 Designer: DEF
2/8/2013 Revised By: DAE

Disclaimer
Weights (lbs/kg), dimensions (inches/mm) and drawings provided for your guidance. We reserve the right to modify specifications without prior notice.

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DESIGN J. SUDOL
SCALE N.T.S.
PROJECT NUMBER 16116

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MISCELLANEOUS DETAILS

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15
OF
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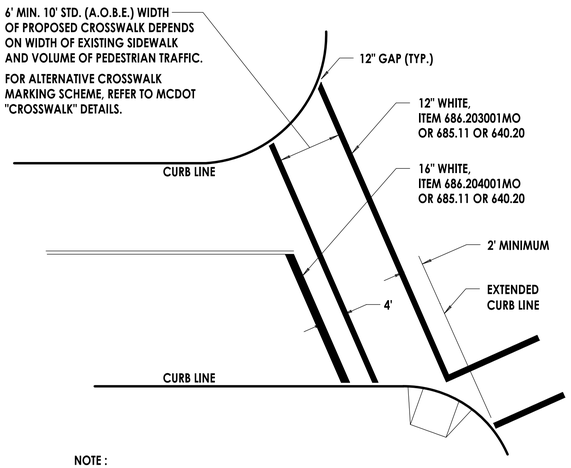
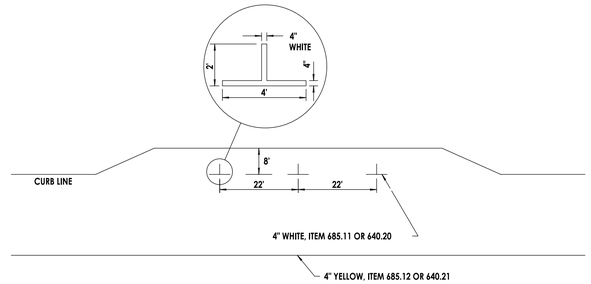


NOTE :
SHOULD THE LOCATION OF DETECTOR LOOPS COINCIDE WITH THE LOCATION OF ARROWS, THE INSTALLATION OF THESE MARKINGS SHALL BE OVERLAID ON THE NEW PAVEMENT AFTER THE DETECTOR LOOPS HAVE BEEN INSTALLED.

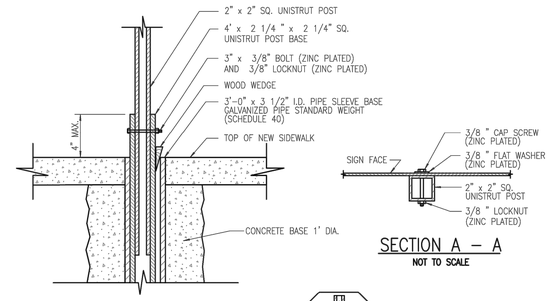
NOT TO SCALE

PAVEMENT MARKINGS AT INTERSECTION



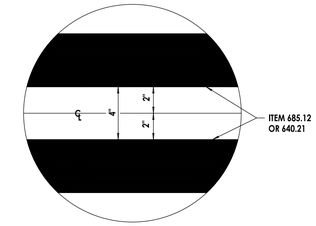
PAVEMENT MARKINGS - LONG LINES

NOT TO SCALE

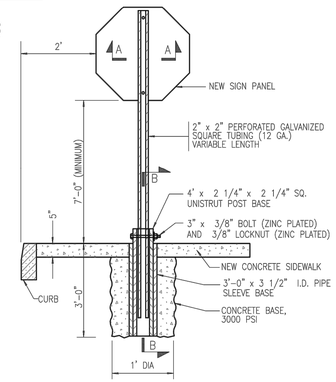


SECTION B – B
NOT TO SCALE

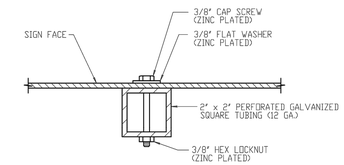
SECTION A – A
NOT TO SCALE



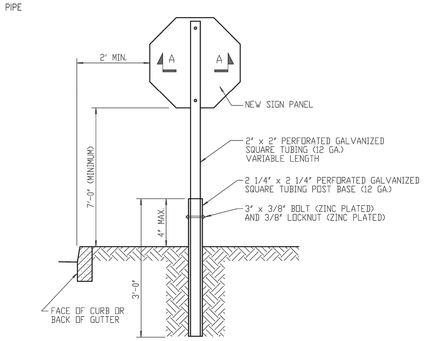
DOUBLE YELLOW CENTERLINE
NOT TO SCALE



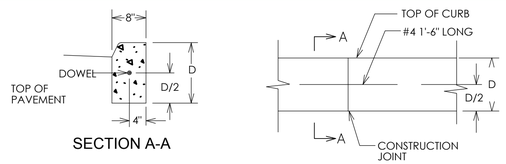
POST MOUNTED SIGN INSTALLATION IN CONCRETE
NOT TO SCALE



SECTION A – A
NOT TO SCALE

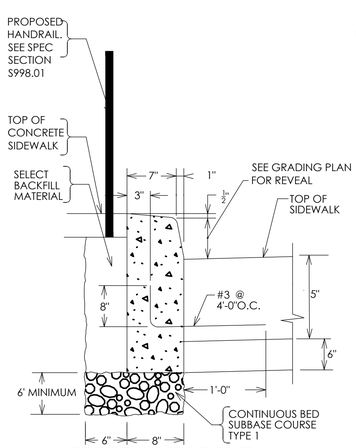


POST MOUNTED SIGN INSTALLATION IN SOIL WITH CURB OR GUTTER
NOT TO SCALE

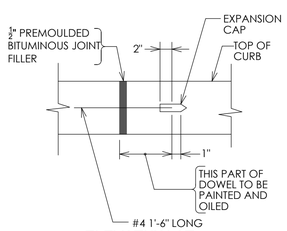


SECTION A-A

ELEVATION AT CONSTRUCTION JOINT



CURB AT RIGID PAVEMENT



ELEVATION AT EXPANSION JOINT

NOTES:
1. GRADED STONE BACKING SHALL BE PLACED ONLY WHERE SIDEWALK DOES NOT ABUT CURB
2. USE CLASS K CONCRETE FOR CONVENTIONALLY FORMED CURB, AND CLASS J CONCRETE FOR MACHINE FORMED CURB.
3. THE BOTTOMS OF BOTH THE CURB AND CONCRETE BASE SHALL BE AT THE SAME ELEVATION.

CONCRETE CURB
ITEM S609.35

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ISSUED MARCH, 2016
CHECKED D. SAVAGE
DRAWN C. HARVEY
DESIGN J. SUDOL
SCALE N.T.S.
PROJECT NUMBER 16116

DRAWING TITLE
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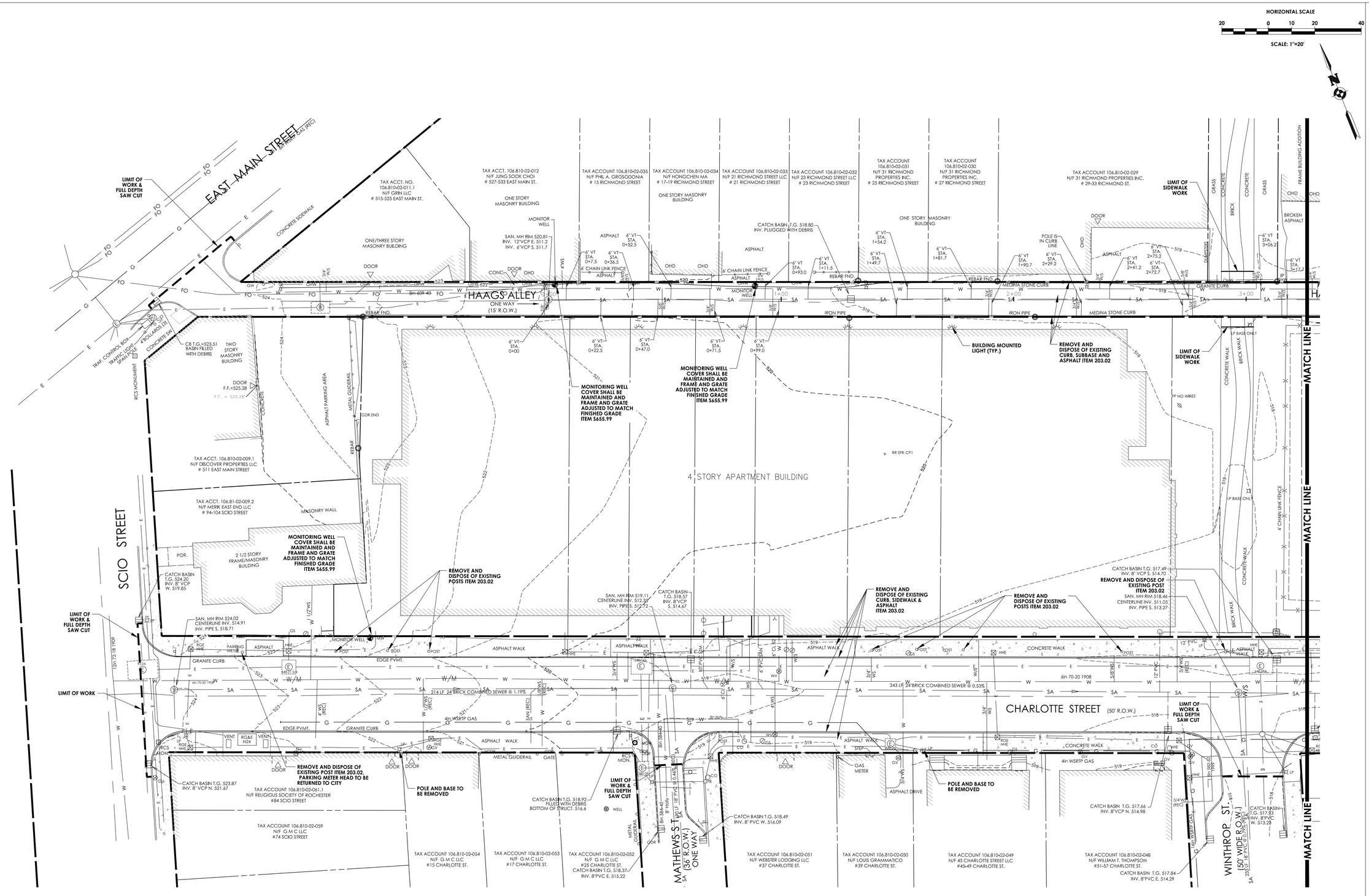
16
OF
36



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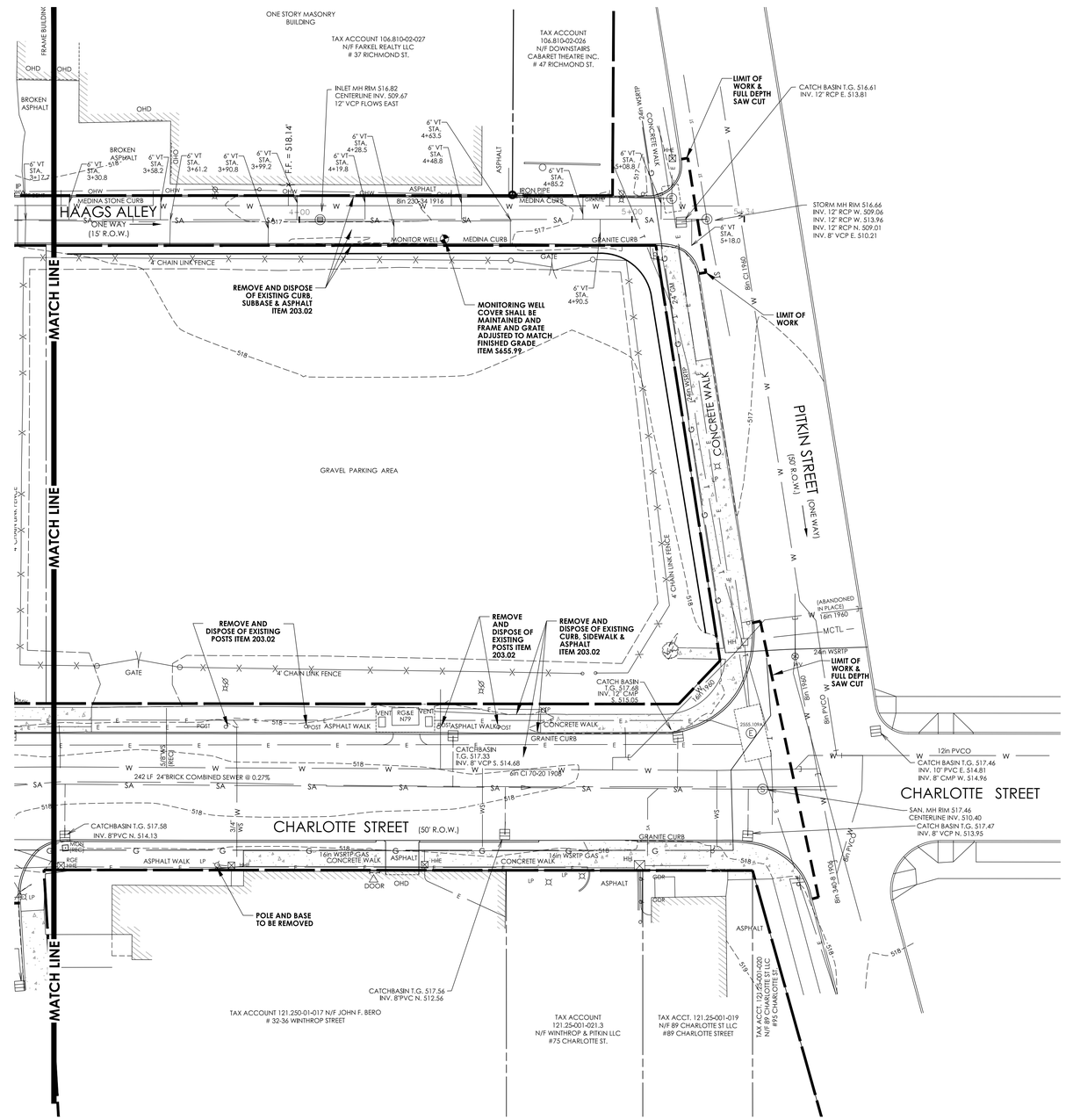
CHECKED	D. SAVAGE
DRAWN	C. HARVEY
DESIGN	J. SUDOL
SCALE	1"=20'
PROJECT NUMBER	16116

DRAWING TITLE
EXISTING CONDITIONS

DRAWING NO.
17
OF
36



HORIZONTAL SCALE

20 0 10 20 40

SCALE: 1"=20'

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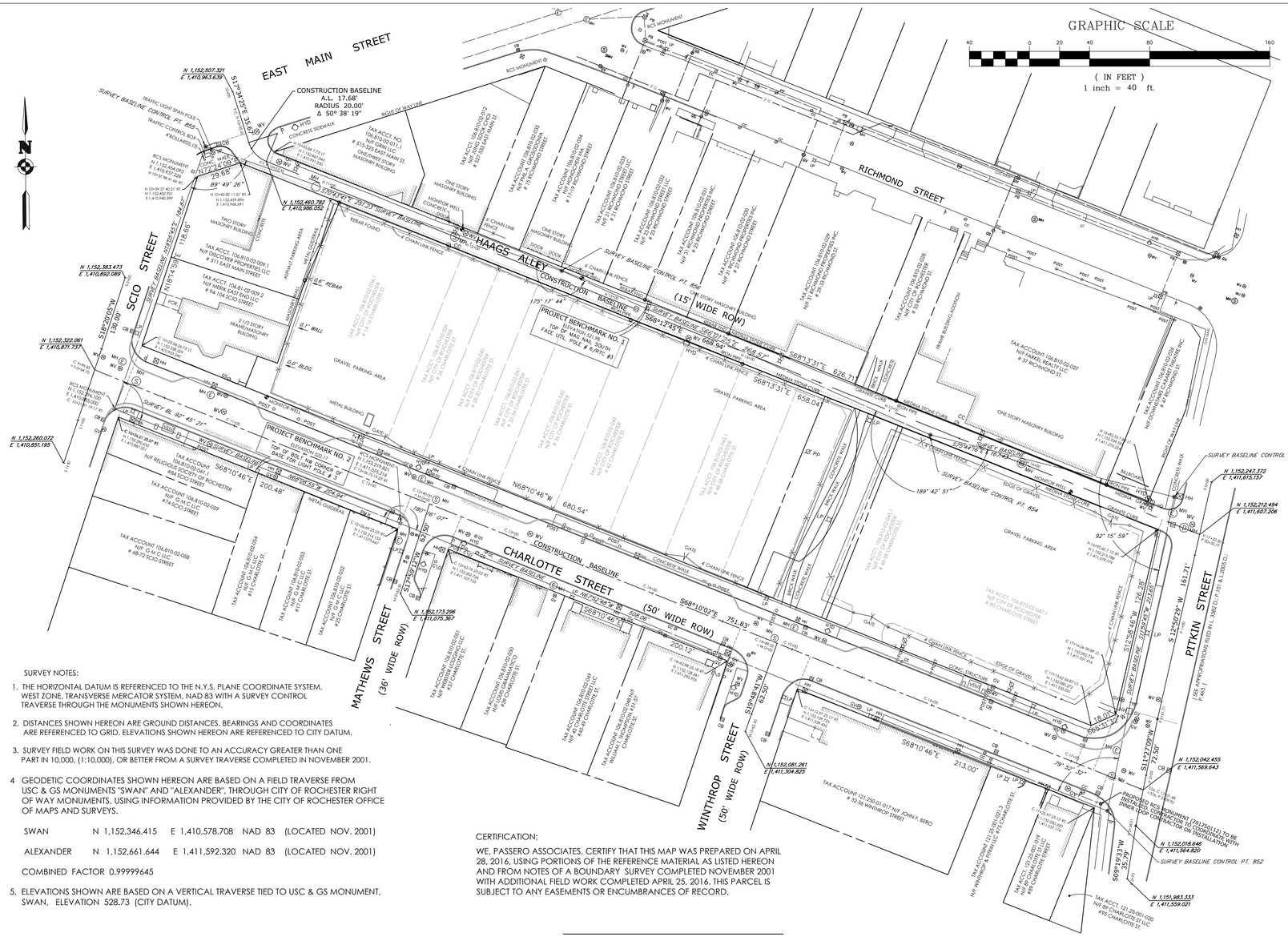
DESIGN	J. SUDOL
SCALE	1"=20'
PROJECT NUMBER	16116

DRAWING TITLE
EXISTING CONDITIONS

DRAWING NO.
18
OF
36



SURVEY NOTES:

1. THE HORIZONTAL DATUM IS REFERENCED TO THE N.Y.S. PLANE COORDINATE SYSTEM, WEST ZONE, TRANSVERSE MERCATOR SYSTEM, NAD 83 WITH A SURVEY CONTROL TRAVERSE THROUGH THE MONUMENTS SHOWN HEREON.
2. DISTANCES SHOWN HEREON ARE GROUND DISTANCES. BEARINGS AND COORDINATES ARE REFERENCED TO GRID. ELEVATIONS SHOWN HEREON ARE REFERENCED TO CITY DATUM.
3. SURVEY FIELD WORK ON THIS SURVEY WAS DONE TO AN ACCURACY GREATER THAN ONE PART IN 10,000. (1:10,000), OR BETTER FROM A SURVEY TRAVERSE COMPLETED IN NOVEMBER 2001.
4. GEODETIC COORDINATES SHOWN HEREON ARE BASED ON A FIELD TRAVERSE FROM USC & GS MONUMENTS "SWAN" AND "ALEXANDER", THROUGH CITY OF ROCHESTER RIGHT OF WAY MONUMENTS, USING INFORMATION PROVIDED BY THE CITY OF ROCHESTER OFFICE OF MAPS AND SURVEYS.

SWAN	N 1,152,346.415	E 1,410,578.708	NAD 83 (LOCATED NOV. 2001)
ALEXANDER	N 1,152,661.644	E 1,411,592.320	NAD 83 (LOCATED NOV. 2001)

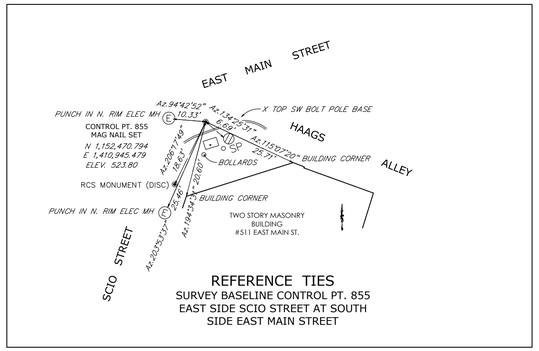
COMBINED FACTOR 0.99999645

5. ELEVATIONS SHOWN ARE BASED ON A VERTICAL TRAVERSE TIED TO USC & GS MONUMENT, SWAN, ELEVATION 528.73 (CITY DATUM).

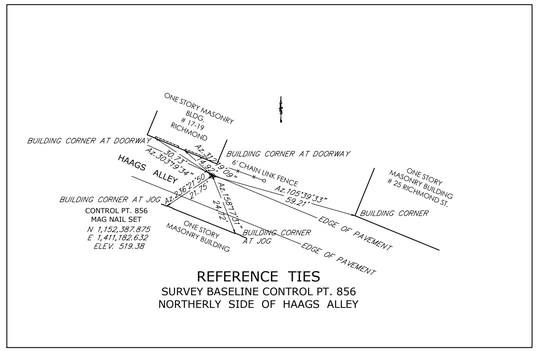
CERTIFICATION:

WE, PASSERO ASSOCIATES, CERTIFY THAT THIS MAP WAS PREPARED ON APRIL 28, 2016, USING PORTIONS OF THE REFERENCE MATERIAL AS LISTED HEREON AND FROM NOTES OF A BOUNDARY SURVEY COMPLETED NOVEMBER 2001 WITH ADDITIONAL FIELD WORK COMPLETED APRIL 25, 2016. THIS PARCEL IS SUBJECT TO ANY EASEMENTS OR ENCUMBRANCES OF RECORD.

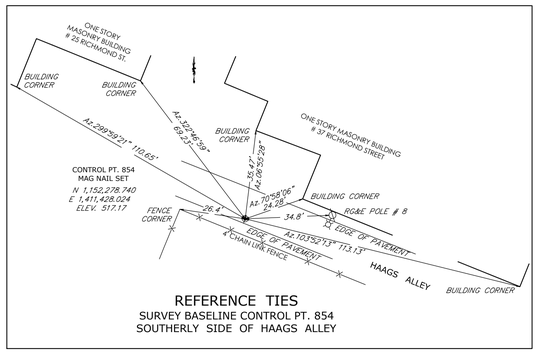
ROBERT A. VENTO, N.Y.S.P.L.S. NO. 049701



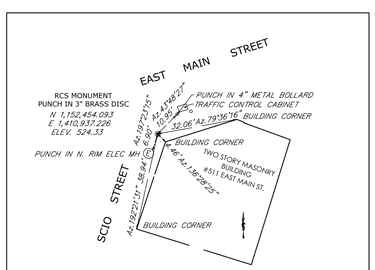
REFERENCE TIES
SURVEY BASELINE CONTROL PT. 855
EAST SIDE SCIO STREET AT SOUTH SIDE EAST MAIN STREET



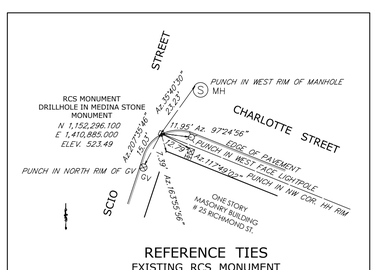
REFERENCE TIES
SURVEY BASELINE CONTROL PT. 856
NORTHERLY SIDE OF HAAGS ALLEY



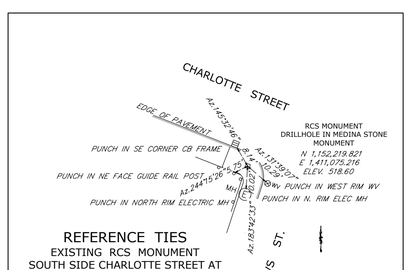
REFERENCE TIES
SURVEY BASELINE CONTROL PT. 854
SOUTHERLY SIDE OF HAAGS ALLEY



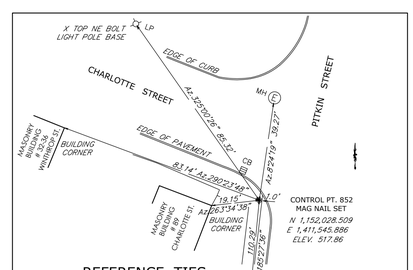
REFERENCE TIES
EXISTING RCS MONUMENT
EAST SIDE SCIO STREET AT SOUTH SIDE EAST MAIN STREET



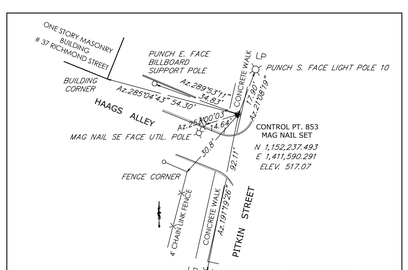
REFERENCE TIES
EXISTING RCS MONUMENT
SOUTH SIDE CHARLOTTE STREET AT EAST SIDE SCIO STREET



REFERENCE TIES
EXISTING RCS MONUMENT
SOUTH SIDE CHARLOTTE STREET AT WEST SIDE MATTHEWS STREET



REFERENCE TIES
SURVEY BASELINE
CONTROL PT. 852
SOUTH SIDE OF CHARLOTTE ST.
AT WEST SIDE OF PITKIN STREET



REFERENCE TIES
SURVEY BASELINE CONTROL PT. 853
NORTHERLY SIDE OF HAAGS ALLEY
AT WESTERLY SIDE OF PITKIN STREET

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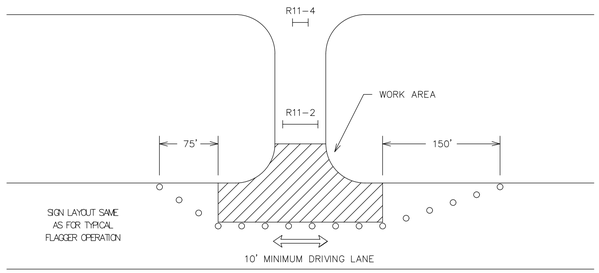
DESIGN	J. SUDOL
SCALE	
PROJECT NUMBER	16116

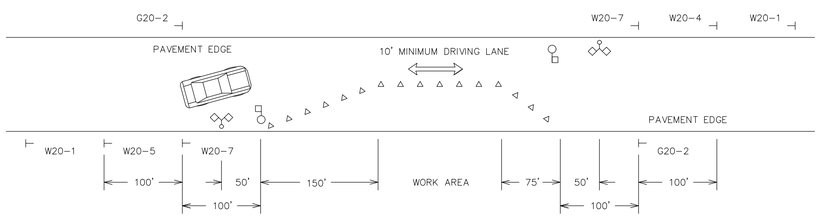
DRAWING TITLE
SURVEY CONTROL SHEET

DRAWING NO.
19
OF
36

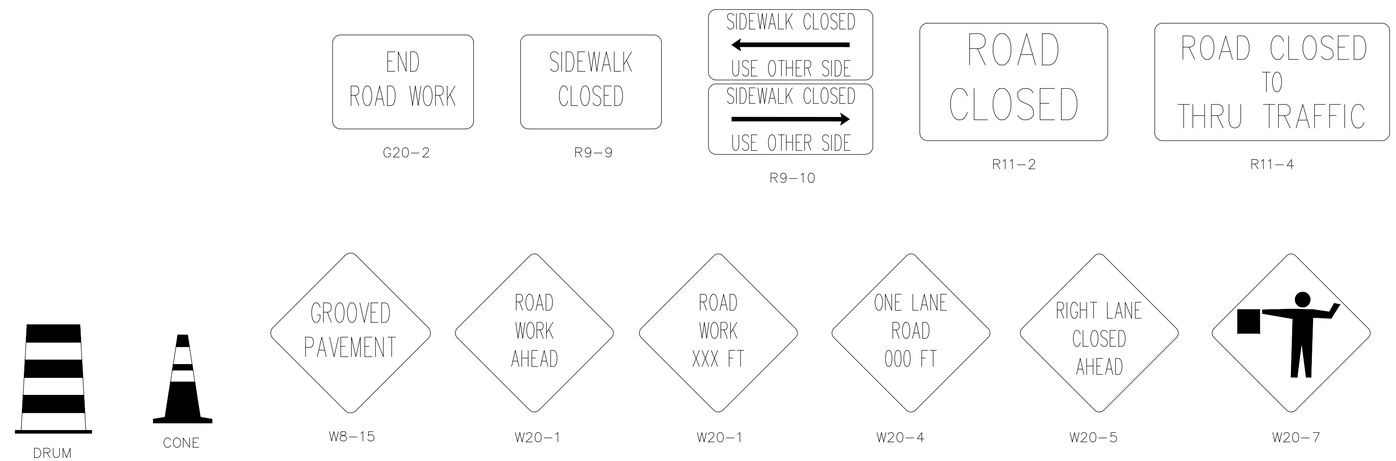
TYPICAL SIGNING
INTERSECTION RECONSTRUCTION AREA



TYPICAL FLAGGER OPERATION

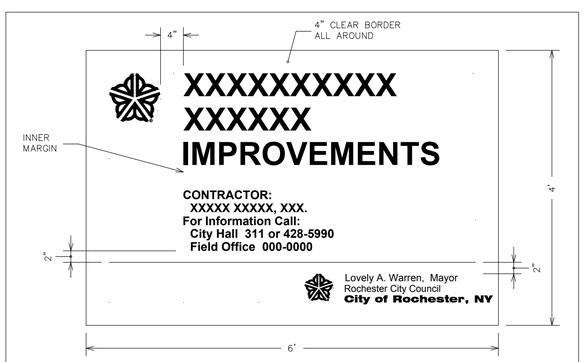


TRAFFIC CONTROL DEVICES



LEGEND

⊥	SIGN	△	CONE
⊥⊥	BARRICADE (SEE NOTE 8)	○-	FLAGGER
○	DRUM	◇◇	FLAG TREE
PS	PROJECT SIGN		



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 3/4INCH 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.

CITY OF ROCHESTER

PROJECT SIGN

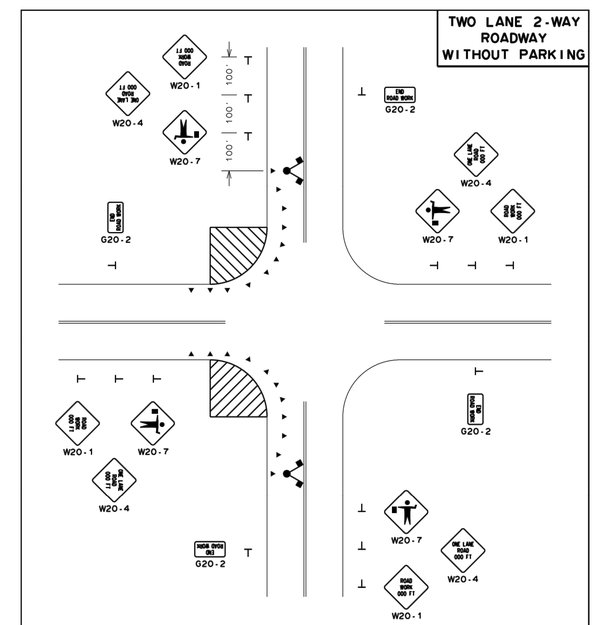
ISSUED	5-7-01	NON-STANDARD
REVISED	1-1-14	DWG.NO.S999-2

NOTES:

1. CONTRACTOR IS REQUIRED TO PROVIDE AND MAINTAIN ALL TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH PLANS, NATIONAL MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND NYSDOT SUPPLEMENT, NYSDOT WORK ZONE TRAFFIC CONTROL STANDARD SHEETS (US CUSTOMARY) LATEST EDITION, AND CITY OF ROCHESTER SPECIFICATIONS. ALL AS APPROVED BY MONROE COUNTY DIRECTOR OF TRANSPORTATION. REFERENCES TO "REGIONAL DIRECTOR" IN NYSDOT STANDARD SHEETS ARE TO BE INTERPRETATED AS "CITY OF ROCHESTER".
2. ALL CONSTRUCTION RELATED SIGNS AS SHOWN ON DRAWING(S) AND AS ORDERED BY PROJECT MANAGER ARE TO BE IN PLACE IMMEDIATELY PRIOR TO COMMENCING WORK.
3. DULY TRAINED FLAGGER(S) ARE TO BE PROVIDED DURING WORKING HOURS TO PROTECT TRAFFIC AT ALL TIMES AND TO PROVIDE ADEQUATE TRAFFIC CONTROL.
4. ONE-WAY AND TWO-WAY TRAFFIC IS TO BE MAINTAINED AT ALL TIMES IN ACCORDANCE WITH REQUIREMENTS OF SECTION R619.
5. TO MAINTAIN TRAFFIC IN TWO LANES WHEN CONTRACTOR IS NOT WORKING, ALL OPEN EXCAVATIONS WITHIN ROADWAY ARE TO BE COVERED WITH METAL PLATES, OR OTHERWISE DELINEATED, AS ORDERED BY PROJECT MANAGER.
6. CONTRACTOR IS TO PROVIDE AND MAINTAIN AT ALL TIMES SAFE AND ADEQUATE INGRESS AND EGRESS TO AND FROM ALL INTERSECTING STREETS, BUILDINGS AND DRIVEWAYS. ACCESS MAY BE RESTRICTED DURING WORKING HOURS, AS CONSTRUCTION ACTIVITIES DICTATE.
7. ALL EXISTING TRAFFIC AND PARKING SIGNS ARE TO BE MAINTAINED BY CONTRACTOR THROUGHOUT CONSTRUCTION OF PROJECT. CONTRACTOR IS TO COVER OR REMOVE ONLY THOSE EXISTING TRAFFIC AND PARKING SIGNS WHICH CONFLICT WITH VARIOUS ACCESS AND TRAFFIC RESTRICTIONS THAT WILL BE UTILIZED DURING CONSTRUCTION OF PROJECT. CONTRACTOR MUST CONTACT MCDOT DISPATCHER AT 1-800-763-7750 AT LEAST 5 WORKING DAYS PRIOR TO REMOVING OR RESETTING ANY TRAFFIC AND PARKING REGULATION SIGNS.
8. WHEN ORDERED BY PROJECT MANAGER, BARRICADES ARE TO BE LIGHTED WITH TYPE A LOW INTENSITY FLASHING YELLOW BARRICADE LIGHTS, SPACED 4 FEET CENTER TO CENTER.
9. CONTRACTOR IS TO CLOSELY COORDINATE ALL WORK IMPACTING SCHOOL PEDESTRIAN TRAFFIC AND SCHOOL BUS TRAFFIC WITH PROJECT MANAGER OR SPECIFIED AGENT. SAFE SCHOOL ROUTE MAINTENANCE PLAN MUST BE SUBMITTED AND APPROVED OF PRIOR TO BEGINNING ANY WORK WHICH IMPACTS EXISTING DESIGNATED ROUTE. ANY ADDITIONAL SIGNAGE, FLAGGER(S), OR OTHER REQUIREMENTS REQUIRED BY PROJECT MANAGER WILL BE INCLUDED IN UNIT PRICE BID FOR BASIC MAINTENANCE AND PROTECTION OF TRAFFIC. SAFE SCHOOL ROUTE MAINTENANCE PLAN IS TO STAY IN EFFECT FOR DURATION OF CONSTRUCTION OF PROJECT, UNLESS ORDERED OTHERWISE BY PROJECT MANAGER.

CONSTRUCTION SEQUENCE:

1. INSTALL WATER MAIN. UPON COMPLETION, TESTING AND DISINFECTION, PLACE TEMPORARY PAVEMENT WITH FLAGGER OPERATION. (2 WEEKS)
2. INSTALL WATER SERVICES AND SANITARY LATERALS WITH FLAGGER OPERATION. (3 WEEKS)
3. CONVERT CHARLOTTE STREET TO ONE WAY TRAFFIC EASTBOUND, USING THE NORTH SIDE OF THE ROAD. CONSTRUCT THE SOUTHERLY CURB LINE, SIDEWALK AND HYDRANT BUMP OUT LOCATIONS. PAVE TO BINDER.
   3.1. PROVIDE 12 FOOT TRAVEL LANE FOR THE EASTBOUND TRAFFIC (2 WEEKS)
4. ONCE SOUTH SIDE WORK IS COMPLETE, BEGIN WORK ON THE NORTH SIDE OF THE ROAD AND CONVERT CHARLOTTE STREET TRAFFIC TO ONE WAY EASTBOUND. PAVE TO BINDER.
   4.1. PROVIDE 14 FOOT TRAVEL LANE FOR WESTBOUND TRAFFIC. (2 WEEKS)
   4.2. PAVE ASPHALT TOP, STRIPE AND PLACE SIGNAGE. (1 WEEK).



NOTES:

1. TAPER LENGTH PER NATIONAL MUCTD TABLE 6C-4.
2. MAINTAIN 2-WAY TRAFFIC IN ONE LANE.
3. MAINTAIN MINIMUM 10 FEET WIDE DRIVING LANE.
4. FOR SHORT DURATION OPERATION, W20-1 SIGN CAN BE OMITTED.

CITY OF ROCHESTER

MAINTENANCE AND PROTECTION OF TRAFFIC - MPT-1

ISSUED	10-22-01	NON-STANDARD
REVISED	6-30-12	DWG.NO.S619-3

✱ USE SIGN ONLY WHEN CONSTRUCTION EXTENDS INTO INTERSECTION

✱✱ MOVE SIGNS AND BARRICADES TO SIDE OF ROAD AT END OF WORK DAY

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Department of Environmental Services
Architecture and Engineering Services
City of Rochester, New York

MANAGING ENGINEER ALBERT J. GIGLIO, P.E.
CITY ENGINEER JAMES R. McINTOSH, P.E.

PROJECT TITLE
CHARLOTTE STREET & HAAGS ALLEY IMPROVEMENTS

NO.	REVISIONS	BY	DATE
1	Addendum #1	TAH	6/6

ISSUED MARCH, 2016
CHECKED D. SAVAGE
DRAWN C. HARVEY
DESIGN J. SUDOL
SCALE N.T.S.
PROJECT NUMBER 16116

DRAWING TITLE
WORK ZONE TRAFFIC CONTROL

DRAWING NO.
20
OF
36

GENERAL NOTES

1. THE TYPICAL DETAILS DEPICTED ON THE STANDARD SHEETS AND IN THE MUTCD, REFLECT THE MINIMUM REQUIREMENTS.
2. THE CONTRACTOR MUST SUBMIT TO THE ENGINEER, IN WRITING, PROPOSED REVISIONS TO THE TRAFFIC CONTROL PLAN FOR REVIEW AND APPROVAL BY THE REGIONAL DIRECTOR OR HIS/HER DESIGNEE FIVE (5) WORK DAYS PRIOR TO THE PLANNED IMPLEMENTATION OF SUCH PROPOSED REVISIONS, EXCEPT FOR CHANGES THAT ALTER THE SCOPE OF THE TRAFFIC CONTROL PLAN. SUCH CHANGES IN SCOPE MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL BY THE REGIONAL DIRECTOR OR HIS/HER DESIGNEE THIRTY (30) WORKING DAYS PRIOR TO IMPLEMENTATION OF SUCH REVISIONS.
3. THE CONTRACTOR SHALL PROVIDE THE ENGINEER, IN WRITING, WITH THE NAMES, ADDRESSES, AND TELEPHONE NUMBERS OF STAFF WHO ARE AUTHORIZED TO SECURE LABOR, MATERIALS, AND EQUIPMENT FOR EMERGENCY REPAIRS OUTSIDE NORMAL WORKING HOURS. THE ENGINEER WILL PROVIDE THE SUBMITTED INFORMATION TO REGIONAL MANAGEMENT, THE NEW YORK STATE POLICE, THE RESIDENT ENGINEER, AND THE LOCAL POLICE.

ACTIVITY AREA

1. THE CONTRACTOR SHALL MAINTAIN A MINIMUM 500' LONGITUDINAL DISTANCE BETWEEN CONSTRUCTION OPERATIONS ON ALTERNATE SIDES OF THE ROADWAY, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
2. WHEN TWO OR MORE AREAS ARE ADJACENT, OVERLAP, OR ARE IN CLOSE PROXIMITY, THE CONTRACTOR SHALL ENSURE THERE ARE NO CONFLICTING SIGNS AND THAT LANE CONTINUITY IS MAINTAINED THROUGHOUT ALL WORK AREAS.

SIGNS

1. THE LOCATIONS OF THE SIGNS SHOWN ON THE WORK ZONE TRAFFIC CONTROL PLANS AND DETAILS MAY BE ADJUSTED BASED ON SIGHT DISTANCE AND OTHER CONSIDERATIONS. THE FINAL LOCATIONS OF SIGNS ARE SUBJECT TO APPROVAL OF THE ENGINEER.
2. ANY EXISTING SIGNS, INCLUDING OVERHEAD SIGNS, WHICH CONFLICT WITH THE TEMPORARY TRAFFIC CONTROL SIGN LAYOUT SHALL BE COVERED, REMOVED, STORED OR RESET, AS APPROVED BY THE ENGINEER. ALL APPROPRIATE EXISTING SIGNS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AND/OR LOCATION UNLESS OTHERWISE REPLACED IN THIS CONTRACT.
3. SIGNS AT OR NEAR INTERSECTIONS SHALL BE PLACED SO THAT THEY DO NOT OBSTRUCT A MOTORIST'S LINE OF SIGHT.
4. ALL WARNING AND REGULATORY SIGNS SHALL BE POSTED ON BOTH SIDES OF MULTI-LANE DIVIDED HIGHWAYS, MULTI-LANE RAMPS, AND ONE-WAY STREETS. IN CASES WHERE LANE RESTRICTIONS REDUCE THE TRAVEL LANE TO ONE LANE, SIGNS SHALL BE POSTED ON THE RIGHT SIDE OF THE ACTIVE TRAVEL LANE, UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER.
5. SIGNS MOUNTED ON THE MEDIAN OF DIVIDED HIGHWAYS WHERE MEDIAN BARRIER IS IN PLACE MAY BE MOUNTED ON THE BARRIER WITH A SADDLE TYPE BRACKET, LAYING THE SIGN DOWN IN A HORIZONTAL POSITION IS NOT PERMITTED.
6. THE DIMENSIONS OF WORK ZONE TRAFFIC CONTROL SIGNS ARE DESCRIBED IN THE MUTCD. ANY CHANGES TO THE DIMENSIONS SHALL BE APPROVED BY THE REGIONAL DIRECTOR OR BY HIS/HER DESIGNEE.
7. NYR9-12 MAY BE USED IN PLACE OF NYR9-11.

CHANNELIZING DEVICES

1. WHERE POSSIBLE ALL CHANNELIZING AND GUIDING DEVICES ARE TO BE PLACED SO AS TO PROVIDE A MINIMUM 2' LATERAL CLEARANCE TO THE TRAVELED WAY.

PUBLIC ACCESS

1. PROPERTY OWNERS WHOSE DRIVEWAYS WILL BE MADE INACCESSIBLE SHALL BE NOTIFIED BY THE CONTRACTOR AT LEAST 24 HOURS PRIOR TO RESTRICTING USE OF THE DRIVEWAY. FOR MULTIPLE ACCESS PROPERTIES, AT LEAST ONE DRIVEWAY SHALL BE OPEN AT ALL TIMES. ACCESS SHALL BE RESTORED TO ALL DRIVEWAYS AS SOON AS POSSIBLE.
2. SUITABLE RAMPS SHALL BE INSTALLED TO MAINTAIN SMOOTH TRANSITIONS FROM RESIDENTIAL AND COMMERCIAL DRIVEWAYS TO AND FROM THE WORK AREA.

LANE CLOSURES

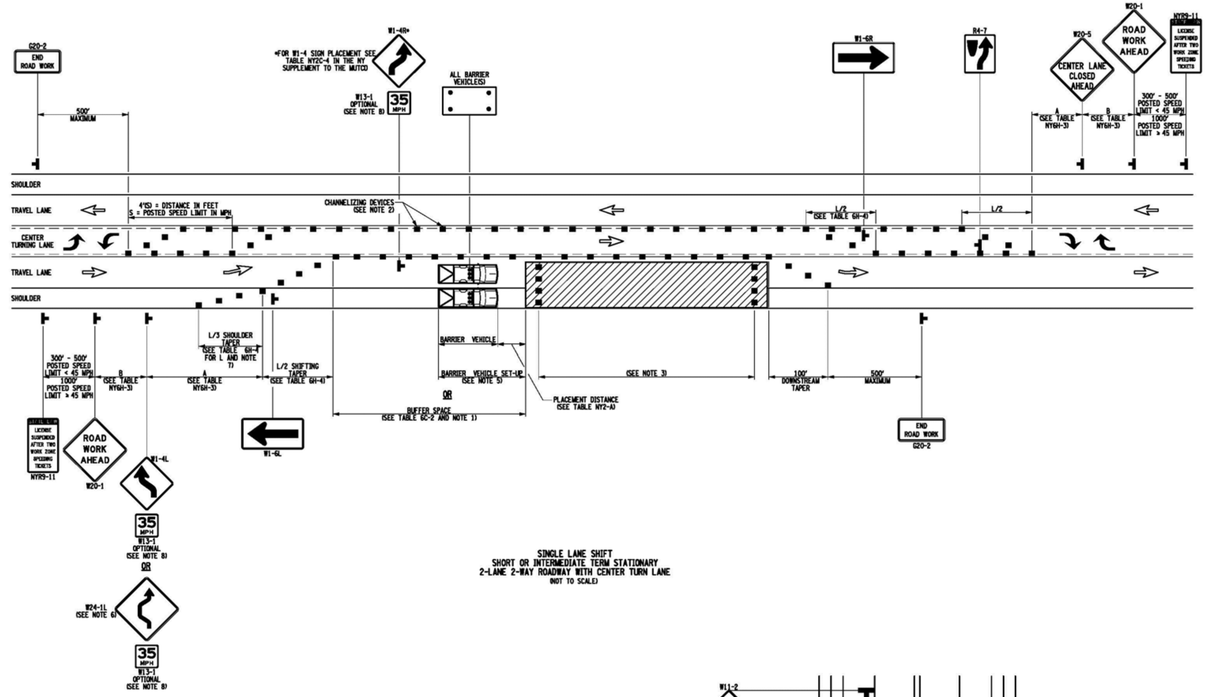
1. THE CONTRACTOR SHALL LOCATE LANE CLOSURES TO PROVIDE OPTIMUM VISIBILITY, I.E. BEFORE CURVES AND CRESTS, TO THE EXTENT CONDITIONS PERMIT.
2. THE ENGINEER MAY REQUIRE THAT ALL LANES BE RE-OPENED AT ANY TIME IF THE ROUTE IS NEEDED FOR EMERGENCY PURPOSES. THIS COULD INCLUDE INCIDENTS AT LOCATIONS OUTSIDE THE CONTRACT LIMITS.

LANE WIDTHS

1. UNLESS AUTHORIZED BY THE ENGINEER, THE MINIMUM LANE WIDTHS FOR WORK ZONE TRAVEL LANES SHALL BE AS FOLLOWS: FREEWAYS AND/OR EXPRESSWAYS IS 11'. THE MINIMUM LANE WIDTH FOR ALL OTHER TYPES OF ROADWAYS IS 10'.
2. THE CONTRACTOR SHALL PROVIDE A WRITTEN NOTICE TO THE ENGINEER, A MINIMUM OF 21 CALENDAR DAYS IN ADVANCE OF PERFORMING ANY WORK THAT RESULTS IN THE REDUCED WIDTH OF AN EXISTING ROADWAY, SO THAT THE ENGINEER MAY NOTIFY THE REGIONAL PERMIT ENGINEER IN A TIMELY MANNER.

BARRIER/SHADOW VEHICLES

1. BARRIER AND SHADOW VEHICLES SHALL BE REQUIRED AS PER STANDARD SHEET TITLED "WORK ZONE TRAFFIC CONTROL LEGENDS AND NOTES".
2. NO WORK ACTIVITY, EQUIPMENT, VEHICLES AND/OR MATERIALS SHALL BE LOCATED BETWEEN THE BARRIER OR SHADOW VEHICLE AND THE ACTIVE WORK AREA (ROLL AHEAD DISTANCE).
3. THE CONTRACTOR MAY BE REQUIRED TO PROVIDE A BARRIER VEHICLE IN CONJUNCTION WITH POLICE PRESENCE IN THE WORK ZONE, TO BE INCLUDED IN THE UNIT BID PRICE FOR BASIC WORK ZONE TRAFFIC CONTROL.

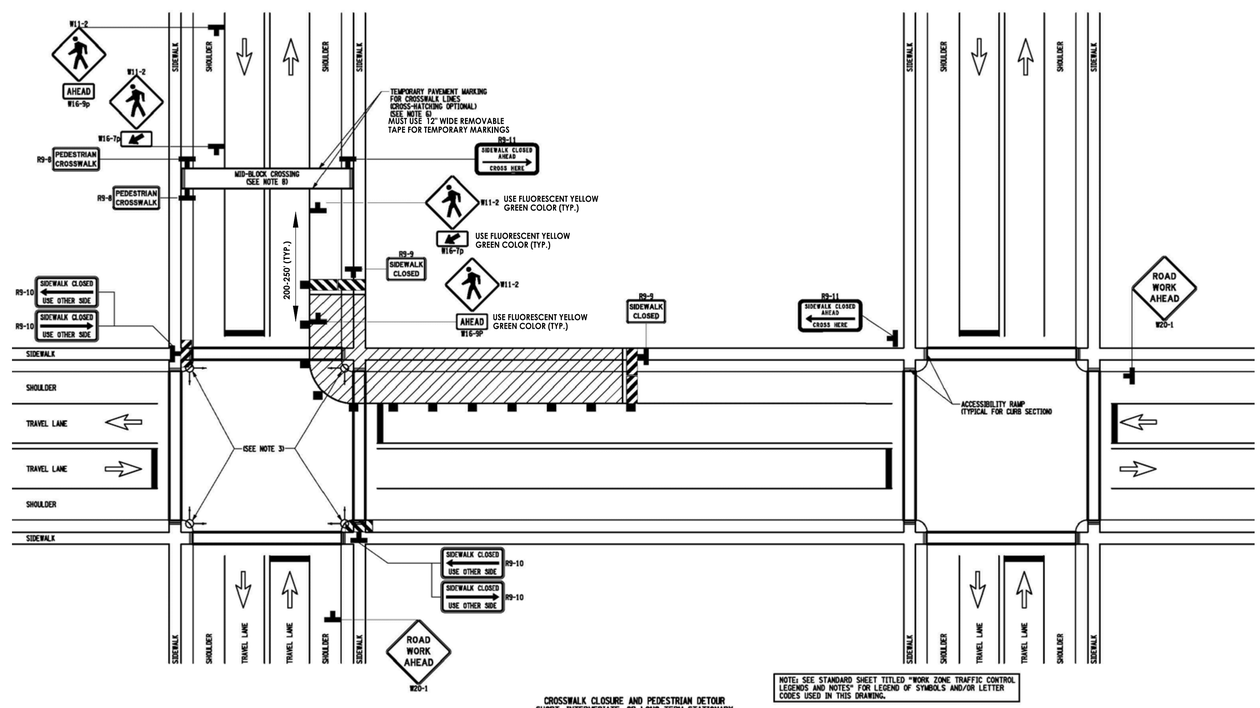


SINGLE LANE SHIFT
SHORT OR INTERMEDIATE TERM STATIONARY
2-LANE 2-WAY ROADWAY WITH CENTER TURN LANE
(NOT TO SCALE)

NOTES:

1. NO WORK ACTIVITY, EQUIPMENT, OR STORAGE OF VEHICLES, OR MATERIAL SHALL OCCUR WITHIN THE BUFFER SPACE AT ANY TIME.
2. CHANNELIZING DEVICE SPACING (CENTER TO CENTER) SHALL NOT EXCEED 40' IN THE ACTIVE WORK SPACE.
3. TRANSVERSE DEVICES SHALL BE REQUIRED (AS PER 619 STANDARD SPECIFICATIONS) WHEN A PAVED SHOULDER HAVING A WIDTH OF 8' OR GREATER IS CLOSED FOR A DISTANCE GREATER THAN 1500'.
4. FOR LONG DURATION LANE CLOSURES, TEMPORARY PAVEMENT MARKINGS SHALL BE USED IN ACCORDANCE TO THE CONTRACT DOCUMENTS. ANY EXISTING PAVEMENT MARKINGS THAT ARE CONFLICTING OR MISLEADING SHALL BE REMOVED OR COVERED.
5. FOR BARRIER VEHICLE USE REQUIREMENTS SEE TABLES NY1-A AND NY2-A ON THE STANDARD SHEET TITLED "WORK ZONE TRAFFIC CONTROL LEGENDS AND NOTES".
6. WHERE THE SHIFTED SECTION IS LONGER THAN 600', ONE SET OF REVERSE CURVE SIGNS SHOULD BE USED TO SHOW THE INITIAL SHIFT AND A SECOND SET SHOULD BE USED TO SHOW THE RETURN TO THE NORMAL ALIGNMENT. IF THE TANGENT DISTANCE ALONG THE TEMPORARY DIVERSION IS LESS THAN 600', THE DOUBLE REVERSE CURVE SIGN (W24-1L) SHOULD BE USED INSTEAD OF THE FIRST REVERSE CURVE SIGN (W1-4L) AND THE SECOND REVERSE CURVE SIGN (W1-4L) SHOULD BE OMITTED.
7. WHEN PAVED SHOULDERS HAVING A WIDTH OF 8' OR MORE ARE CLOSED, CHANNELIZING DEVICES SHALL BE USED TO CLOSE THE SHOULDER IN ADVANCE TO DELINEATE THE BEGINNING OF THE WORK SPACE AND TO DIRECT VEHICULAR TRAFFIC TO REMAIN IN THE TRAVELED WAY.
8. THE ENGINEER MAY REQUIRE THE USE OF AN ADVISORY SPEED PLAQUE (W13-1) TO SUPPLEMENT A WARNING SIGN. THE PLAQUE WILL BE USED TO INDICATE AN ADVISORY SPEED FOR THE WORK ZONE CONDITION, (E. NARROW LANES, BUMPS, POOR ROADWAY SURFACE, LOW OR NO SHOULDER, DROP-OFFS, GEOMETRIC CONSTRAINTS, AND/OR POOR SIGHT CONDITIONS).

WORK ZONE TRAFFIC CONTROL LEGEND	
SYMBOL	DESCRIPTION
	ARROW PANEL
	ARROW PANEL, CAUTION MODE
	ARROW PANEL TRAILER OR SUPPORT
	CHANGEABLE MESSAGE SIGN (VMS)
	CHANNELIZING DEVICE
	CRASH CUSHION/TEMPORARY IMPACT ATTENUATOR
	DIRECTION OF TEMPORARY TRAFFIC DETOUR
	DIRECTION OF TRAFFIC
	FLAGGER
	FLAG TREE
	LUMINAIRE
	PAVEMENT MARKINGS THAT SHALL BE REMOVED FOR A LONG TERM PROJECT
	SIGN, TEMPORARY
	TEMPORARY BARRIER
	TEMPORARY BARRIER WITH WARNING LIGHTS
	TRAFFIC OR PEDESTRIAN SIGNAL
	TYPE III BARRICADE
	WARNING LIGHTS
	WORK SPACE
	WORK VEHICLE
	WORK VEHICLE WITH TRUCK MOUNTED ATTENUATOR



CROSSWALK CLOSURE AND PEDESTRIAN DETOUR
SHORT, INTERMEDIATE, OR LONG TERM STATIONARY
CROSSWALK CLOSURE ON 2-LANE 2-WAY ROADWAY
(NOT TO SCALE)

NOTE: SEE STANDARD SHEET TITLED "WORK ZONE TRAFFIC CONTROL LEGENDS AND NOTES" FOR LEGEND OF SYMBOLS AND/OR LETTER CODES USED IN THIS DRAWING.

NOTES:

1. WHEN CROSSWALKS OR OTHER PEDESTRIAN FACILITIES ARE CLOSED OR RELOCATED, TEMPORARY FACILITIES SHALL BE DETECTABLE AND SHALL INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH THE FEATURES PRESENT IN THE EXISTING FACILITY.
2. CURB PARKING SHALL BE PROHIBITED FOR AT LEAST 50' IN ADVANCE OF THE MID-BLOCK CROSSWALK.
3. PEDESTRIAN TRAFFIC SIGNAL DISPLAYS CONTROLLING CLOSED CROSSWALKS SHOULD BE COVERED OR DEACTIVATED.
4. ONLY THE WORK ZONE TRAFFIC CONTROL DEVICES RELATED TO PEDESTRIANS ARE SHOWN. OTHER DEVICES, SUCH AS LANE CLOSURE SIGNING OR ROAD NARROWS SIGNS (W5-4), MAY BE USED TO CONTROL VEHICULAR TRAFFIC.
5. FOR NIGHTTIME CLOSURES, FLASHING WARNING LIGHTS SHALL BE USED ON BARRICADES SUPPORTING SIGNS AND CLOSING SIDEWALKS.
6. FOR LONG-TERM STATIONARY WORK, THE DOUBLE YELLOW CENTERLINE AND/OR LANE LINES SHOULD BE REMOVED BETWEEN THE TEMPORARY CROSSWALK LINES.
7. AREA SHALL BE RECONSTRUCTED TO BE ACCESSIBLE TO PEDESTRIANS.
8. ALL MID-BLOCK CROSSINGS REQUIRE THE APPROVAL OF THE REGIONAL DIRECTOR OR HIS/HER DESIGNEE.
9. TYPE II BARRICADES MAY BE SUBSTITUTED FOR TYPE III BARRICADES AS PER 619 STANDARD SPECIFICATIONS.

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Architecture and Engineering Services
City of Rochester, New York

MANAGING ENGINEER ALBERT J. GIGLIO, P.E.
CITY ENGINEER JAMES R. McINTOSH, P.E.

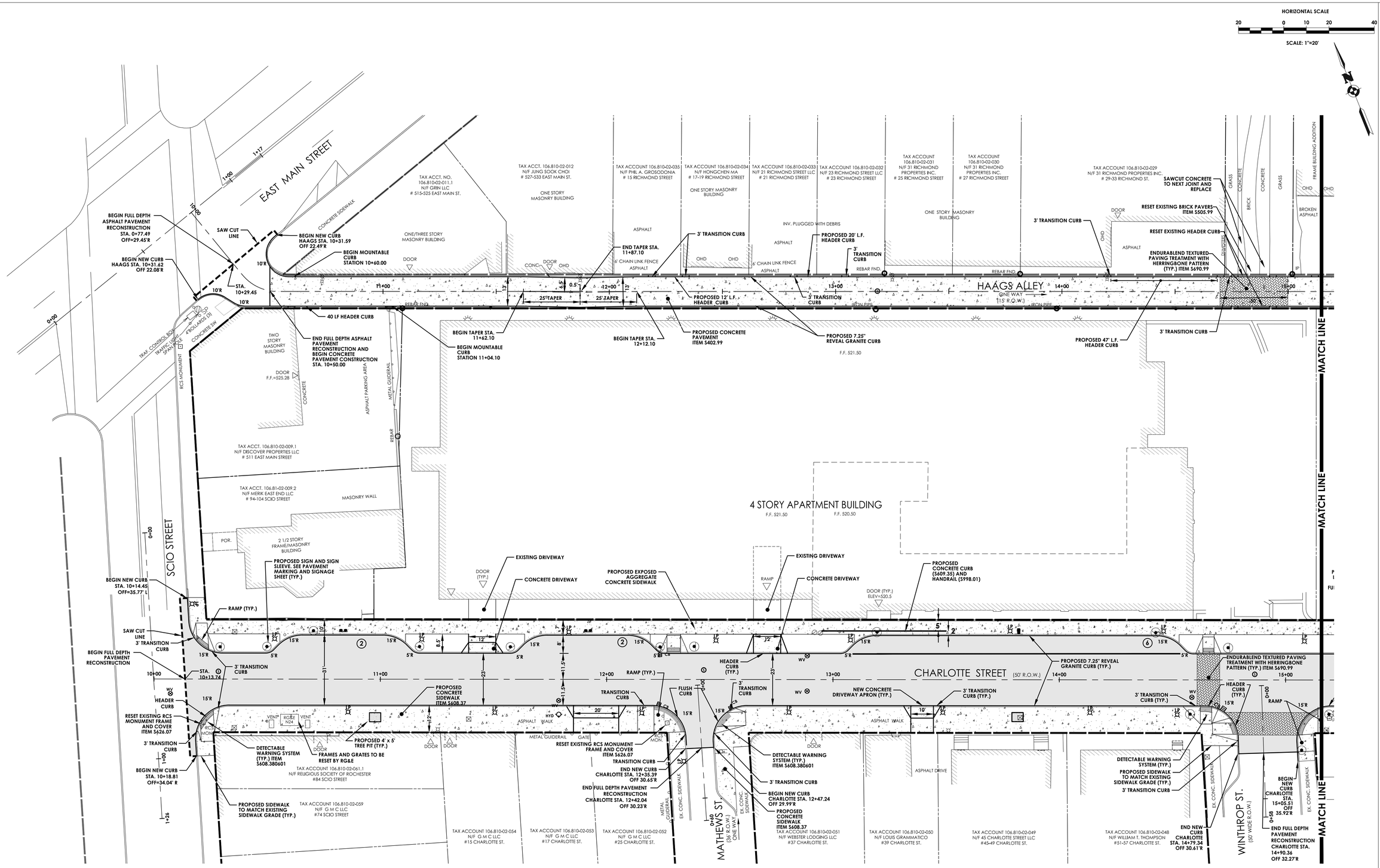
PROJECT TITLE
CHARLOTTE STREET & HAAGS ALLEY IMPROVEMENTS

NO.	REVISIONS	BY	DATE
1	Addendum #1	TAH	6/6

ISSUED MARCH, 2016
CHECKED D. SAVAGE
DRAWN C. HARVEY
DESIGN J. SUDOL
SCALE N.T.S.
PROJECT NUMBER 16116

DRAWING TITLE
WORK ZONE TRAFFIC CONTROL

DRAWING NO.
21
OF
36



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CITY ENGINEER: JAMES R. McINTOSH, P.E.

PROJECT TITLE
CHARLOTTE STREET & HAAGS ALLEY IMPROVEMENTS

NO.	REVISIONS	BY	DATE
1	Addendum #1	TAH	6/6

ISSUED: MARCH, 2016
CHECKED: D. SAVAGE
DRAWN: C. HARVEY
DESIGN: J. SUDOL
SCALE: 1"=20'
PROJECT NUMBER: 16116

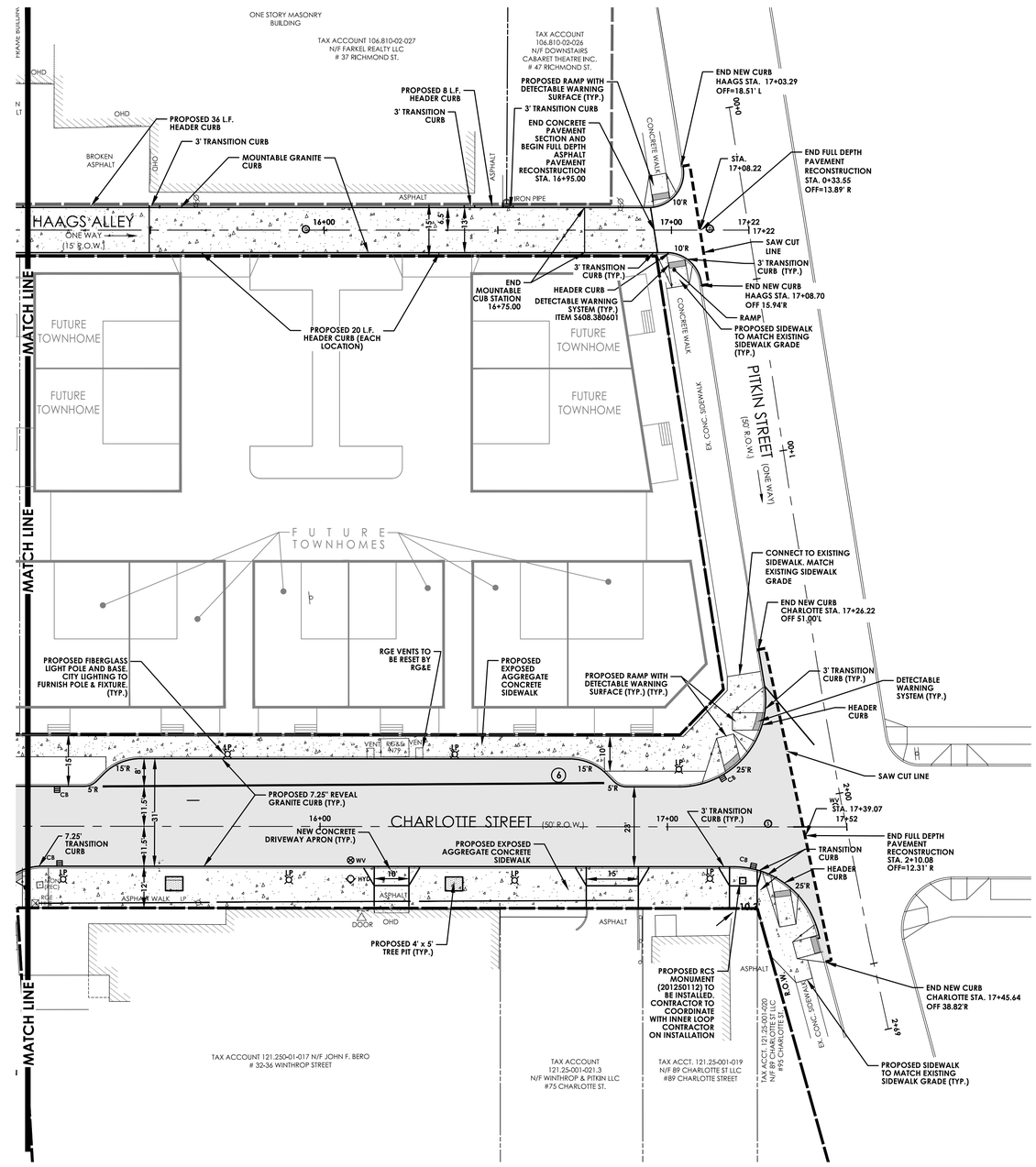
DRAWING TITLE
GEOMETRIC PLANS

DRAWING NO. 22 OF 36

HORIZONTAL SCALE

20 0 10 20 40

SCALE: 1"=20'



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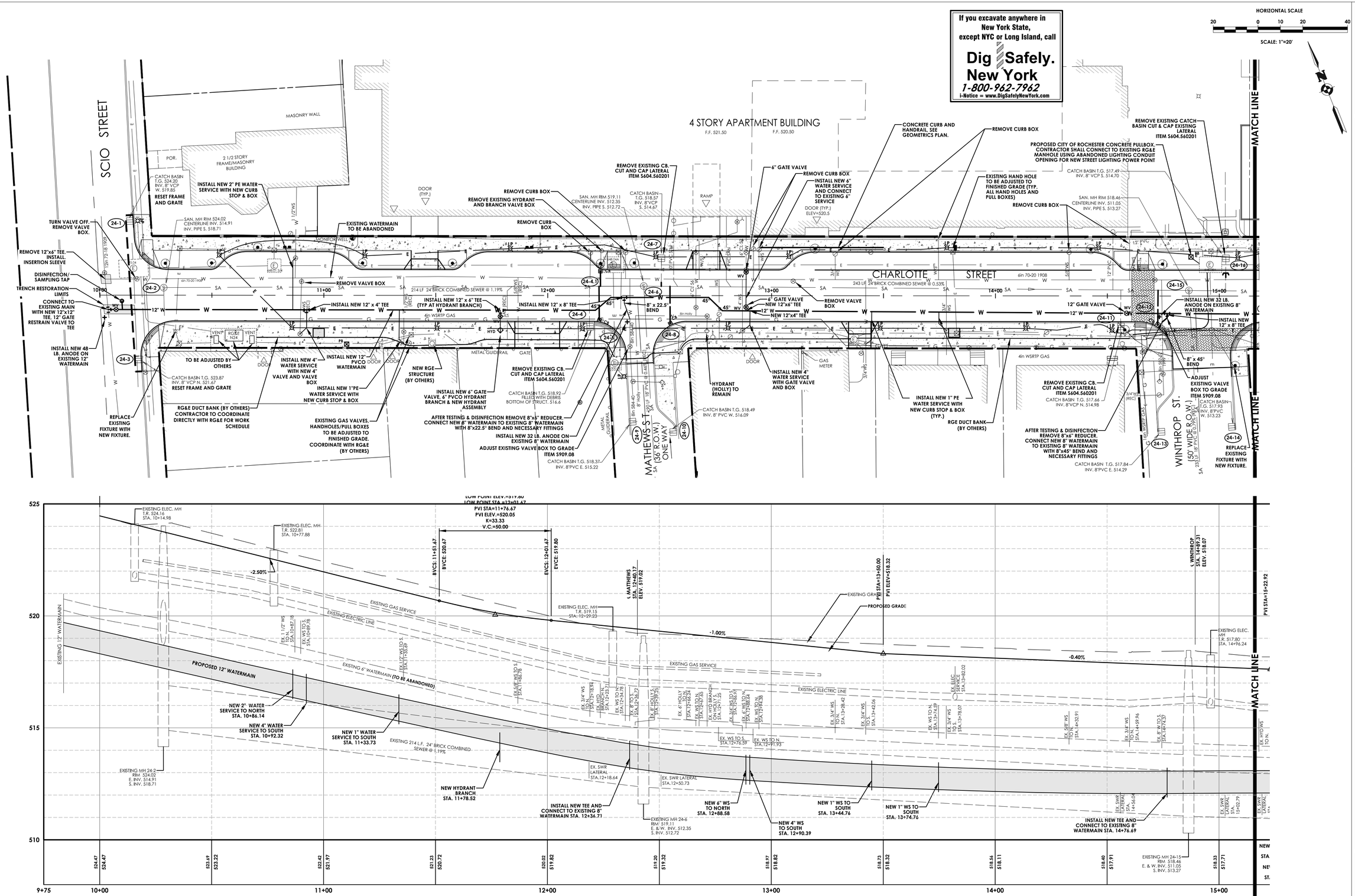
ISSUED MARCH, 2016
CHECKED D. SAVAGE
DRAWN C. HARVEY
DESIGN J. SUDOL
SCALE 1"=20'
PROJECT NUMBER 16116

DRAWING TITLE
GEOMETRIC PLANS

DRAWING NO.
23
OF
36



CHARLOTTE STREET

SCALE: HORIZONTAL - 1" = 20'
VERTICAL - 1" = 2'

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PROJECT TITLE
CHARLOTTE STREET & HAAGS ALLEY IMPROVEMENTS

NO.	REVISIONS	BY	DATE
1	Addendum #1	TAH	6/6

ISSUED	MARCH, 2016
CHECKED	D. SAVAGE
DRAWN	C. HARVEY
DESIGN	J. SUDOL
SCALE	1"=20'
PROJECT NUMBER	16116

DRAWING TITLE
CHARLOTTE STREET PLANS AND PROFILES

DRAWING NO.
24
OF
36

HORIZONTAL SCALE

20 0 10 20 40

SCALE: 1"=20'

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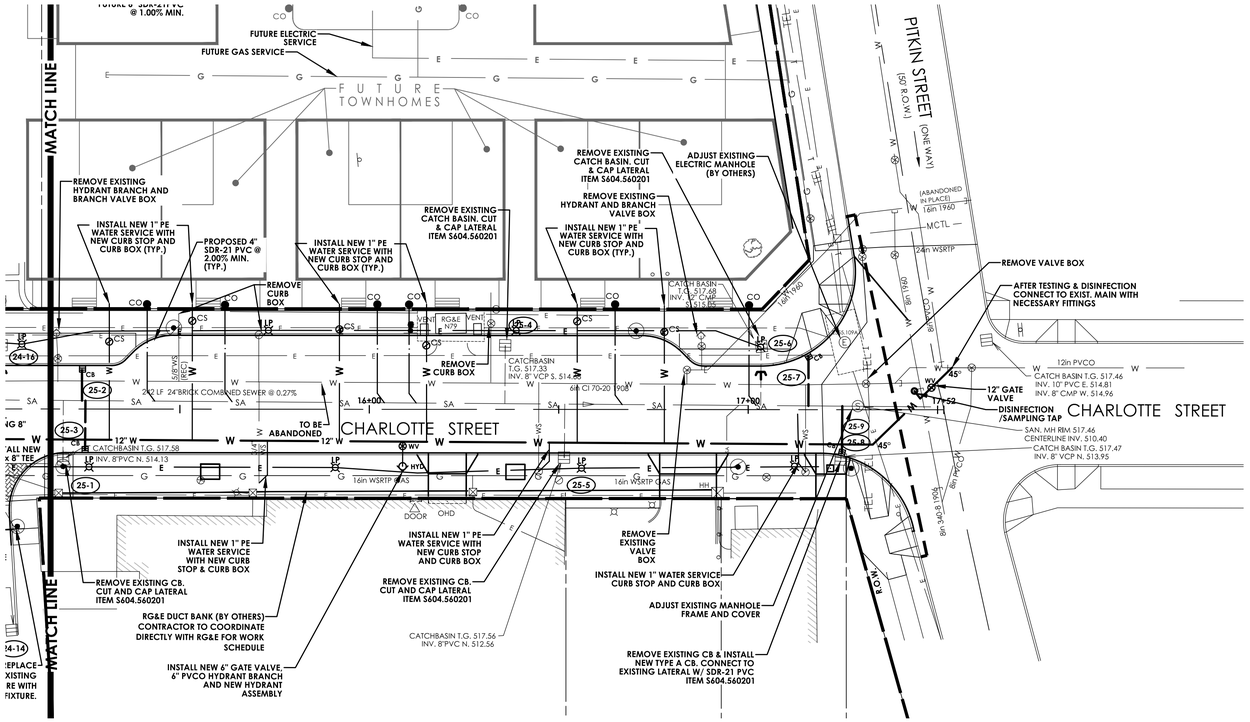
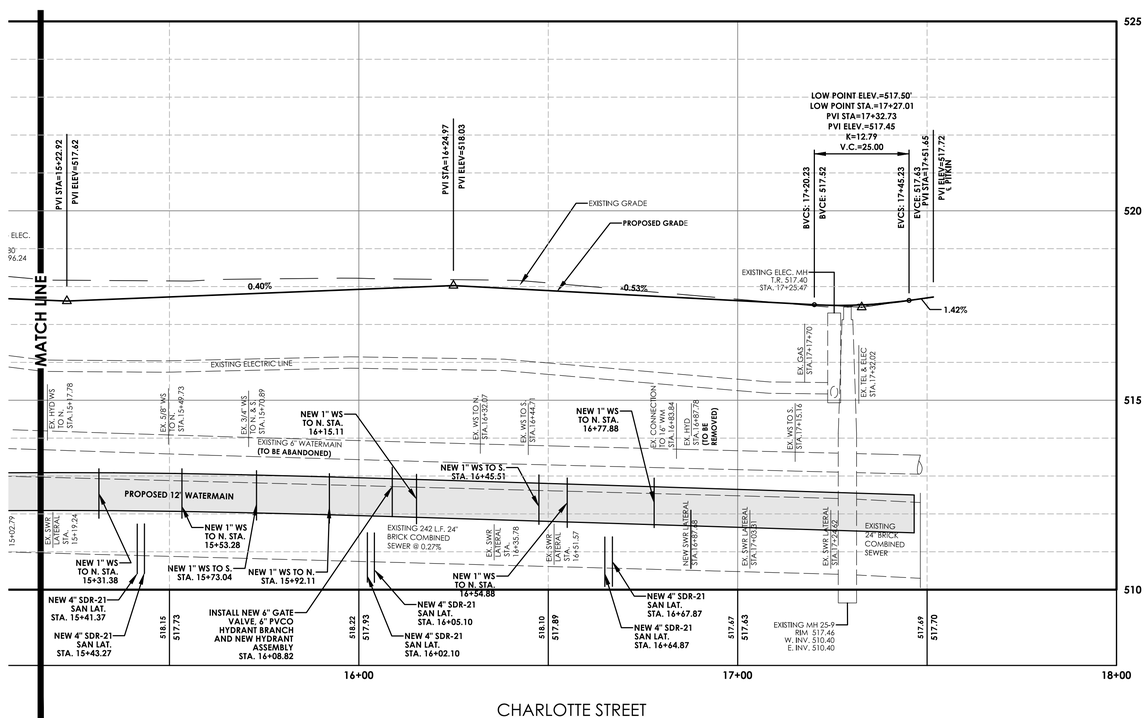
i-Notice = www.DigSafelyNewYork.com





CHARLOTTE STREET

SCALE: HORIZONTAL: 1"=20'

VERTICAL: 1"=2'

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MANAGING ENGINEER ALBERT J. GIGLIO, P.E.

CITY ENGINEER JAMES R. McINTOSH, P.E.

PROJECT TITLE

CHARLOTTE STREET & HAAGS ALLEY IMPROVEMENTS

NO.	REVISIONS	BY	DATE
1	Addendum #1	TAH	6/6

ISSUED	MARCH, 2016
CHECKED	D. SAVAGE
DRAWN	C. HARVEY
DESIGN	J. SUDOL
SCALE	1"=20'
PROJECT NUMBER	16116

DRAWING TITLE

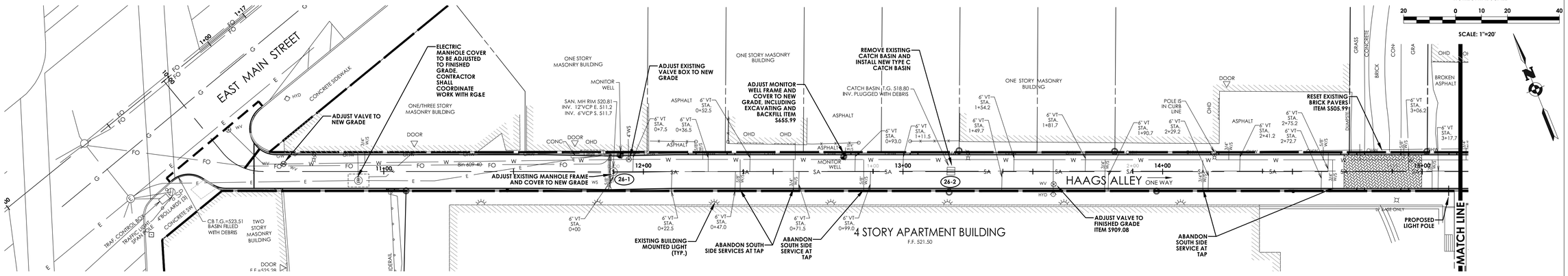
CHARLOTTE STREET PLANS AND PROFILES

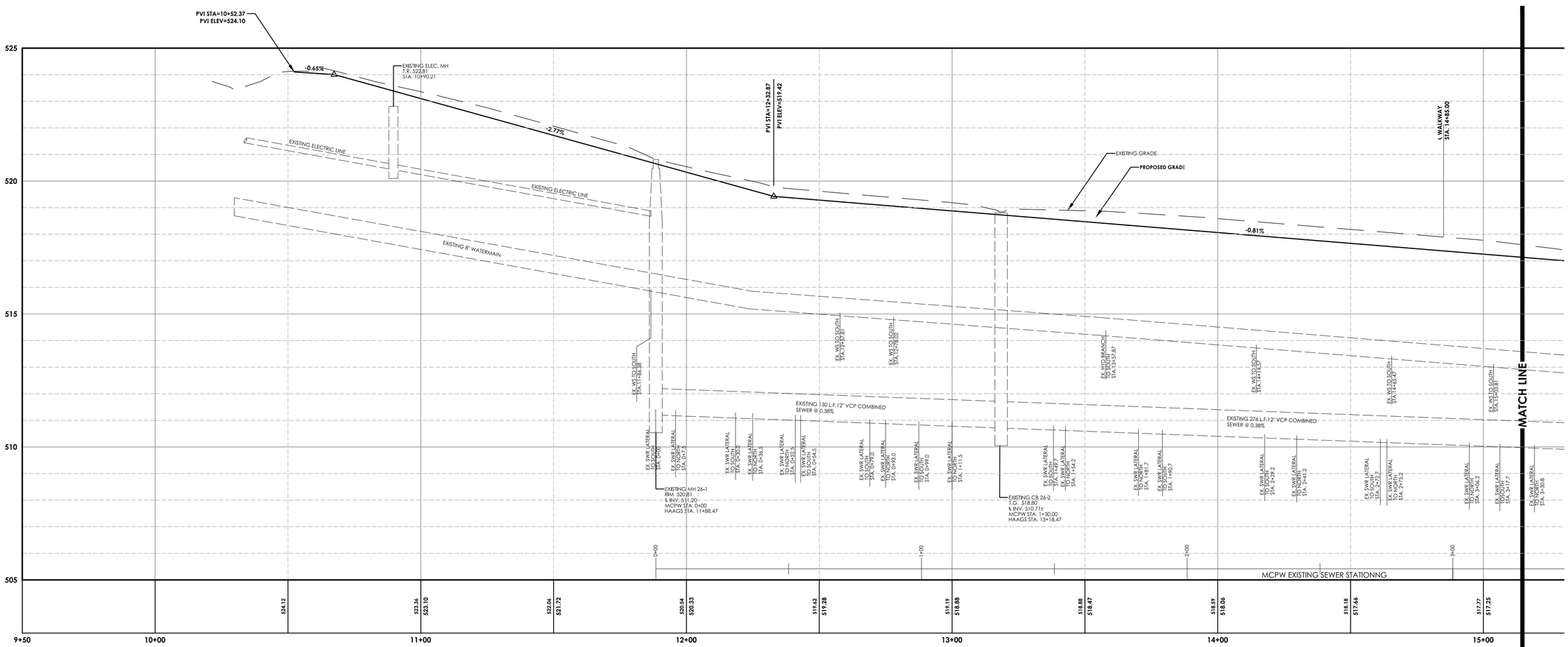
DRAWING NO.

25

OF

36





HAAGS ALLEY

SCALE: HORIZONTAL - 1" = 20'
VERTICAL - 1" = 2'

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PROJECT TITLE
CHARLOTTE STREET & HAAGS ALLEY IMPROVEMENTS

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DRAWN	C. HARVEY
DESIGN	J. SUDOL
SCALE	1"=20'
PROJECT NUMBER	16116

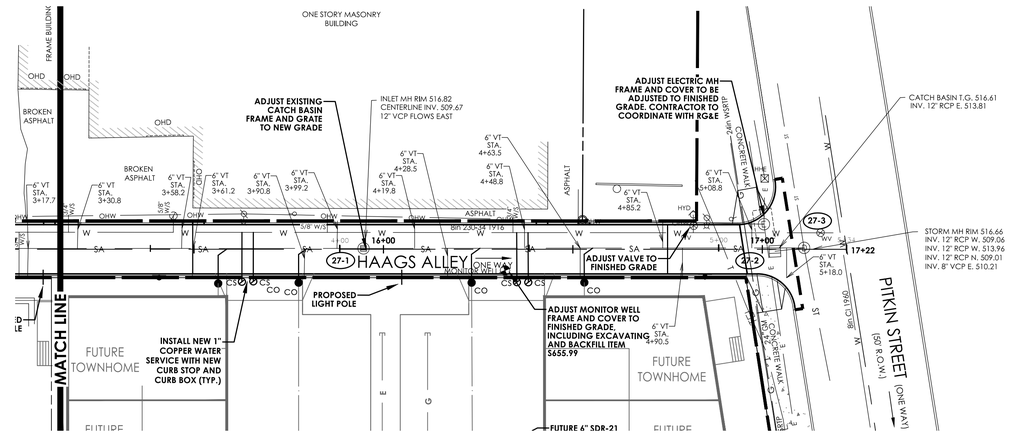
DRAWING TITLE
HAAGS ALLEY
PLANS AND PROFILES

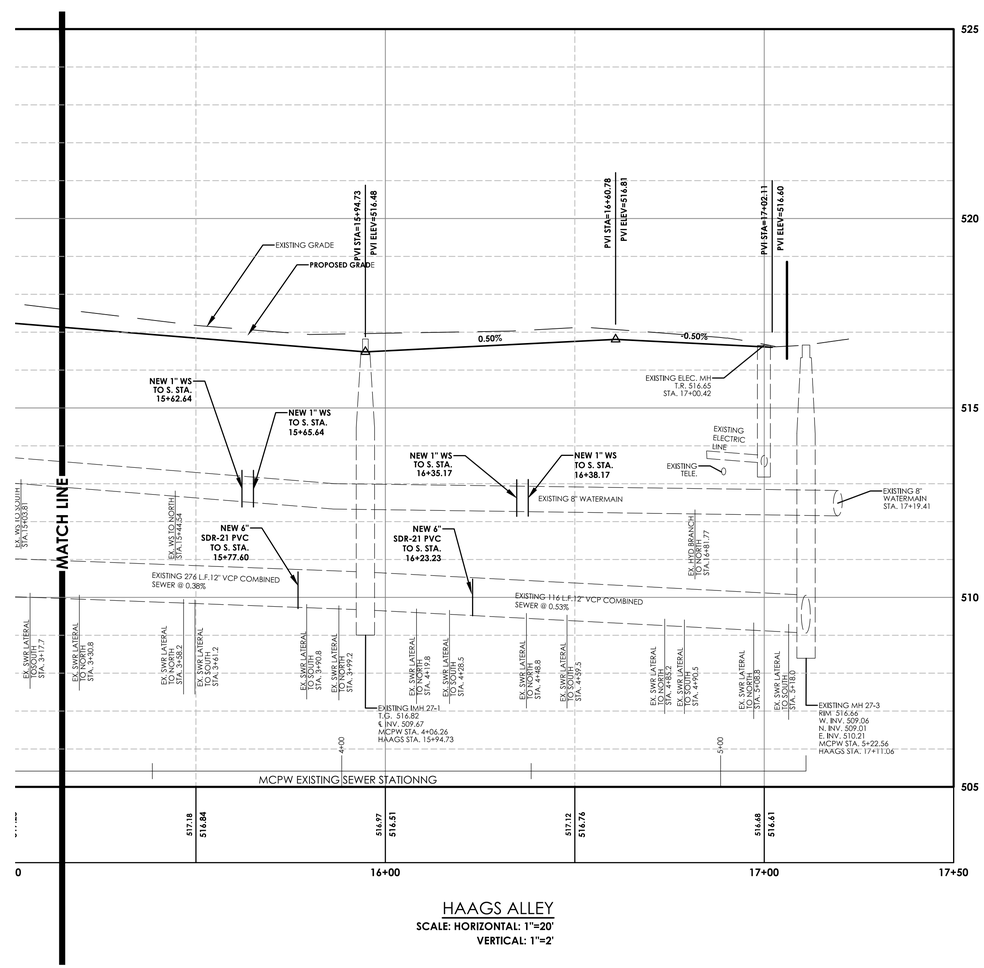
DRAWING NO.
26
OF
36

HORIZONTAL SCALE

20 0 10 20 40

SCALE: 1"=20'





HAAGS ALLEY

SCALE: HORIZONTAL: 1"=20'

VERTICAL: 1"=2'

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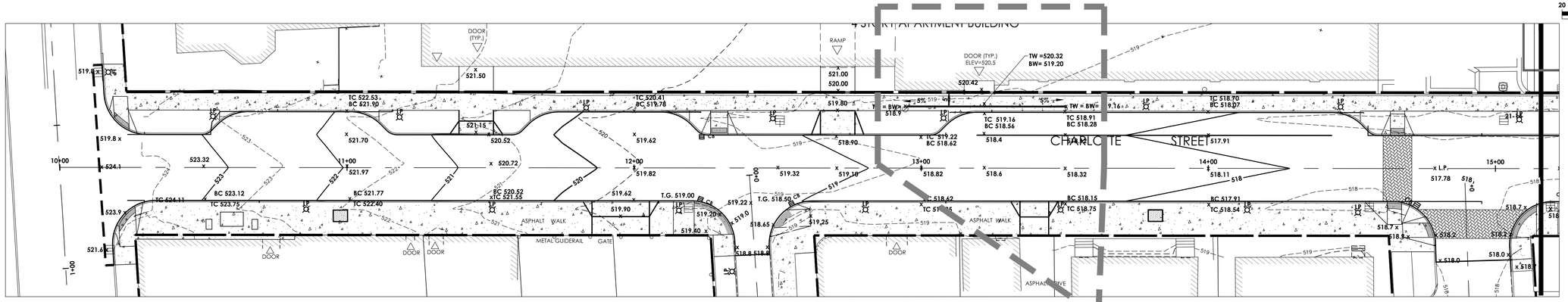
PROJECT NUMBER	16116

DRAWING TITLE

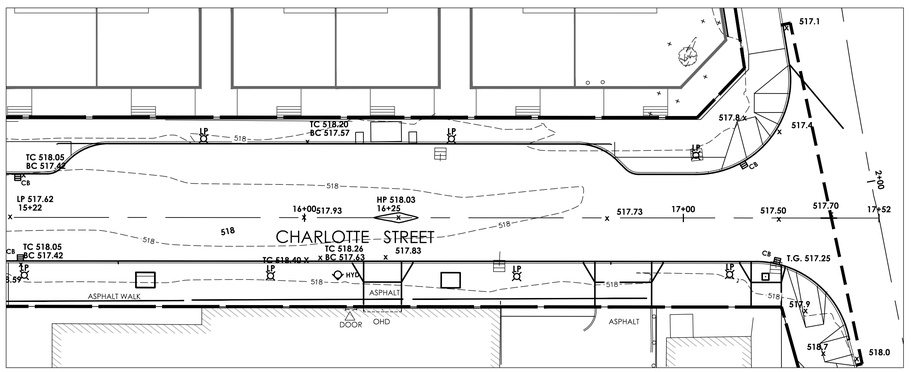
HAAGS ALLEY PLANS AND PROFILES

DRAWING NO.

27 OF 36



CHARLOTTE STREET



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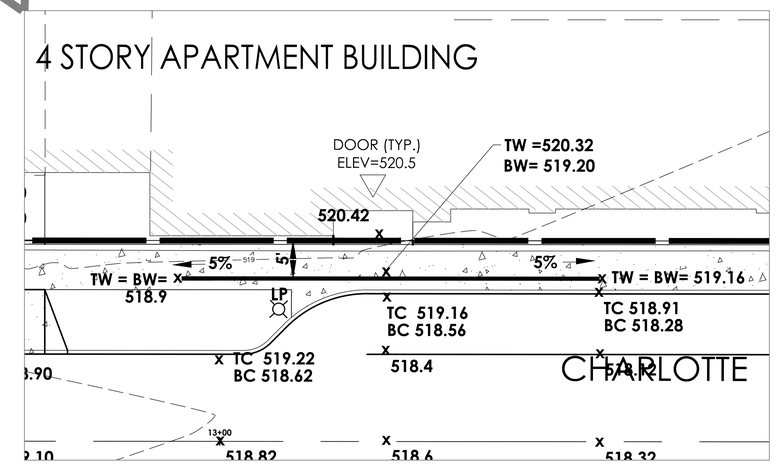
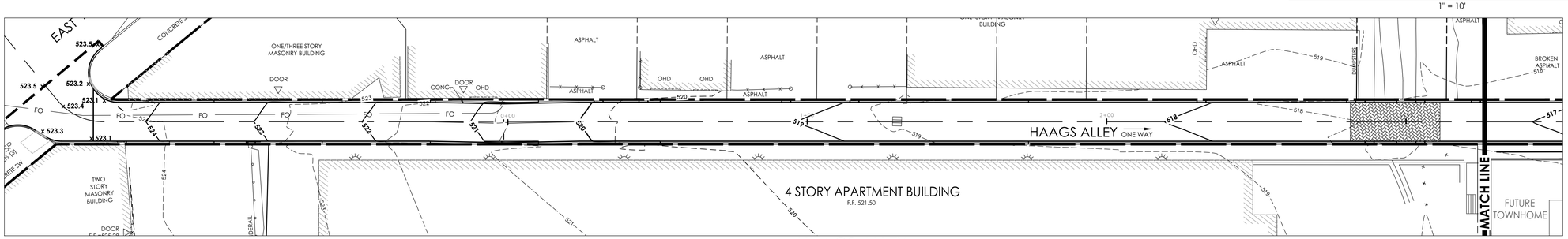


CHARLOTTE SQUARE ENTRANCE BLOWUP

1" = 10'



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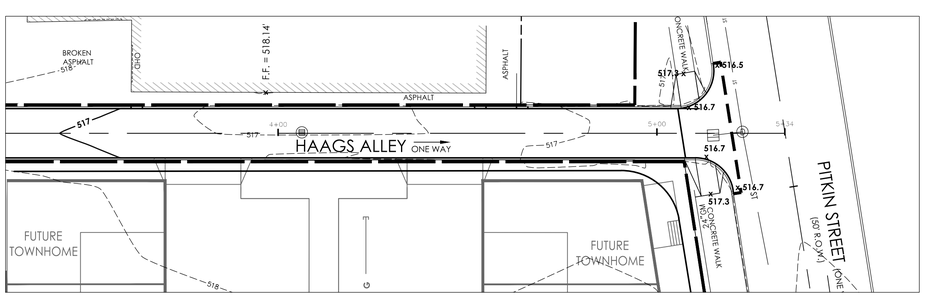

HAAGS ALLEY

HORIZONTAL SCALE

20 0 10 20 40

SCALE: 1"=20'

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CITY ENGINEER JAMES R. McINTOSH, P.E.

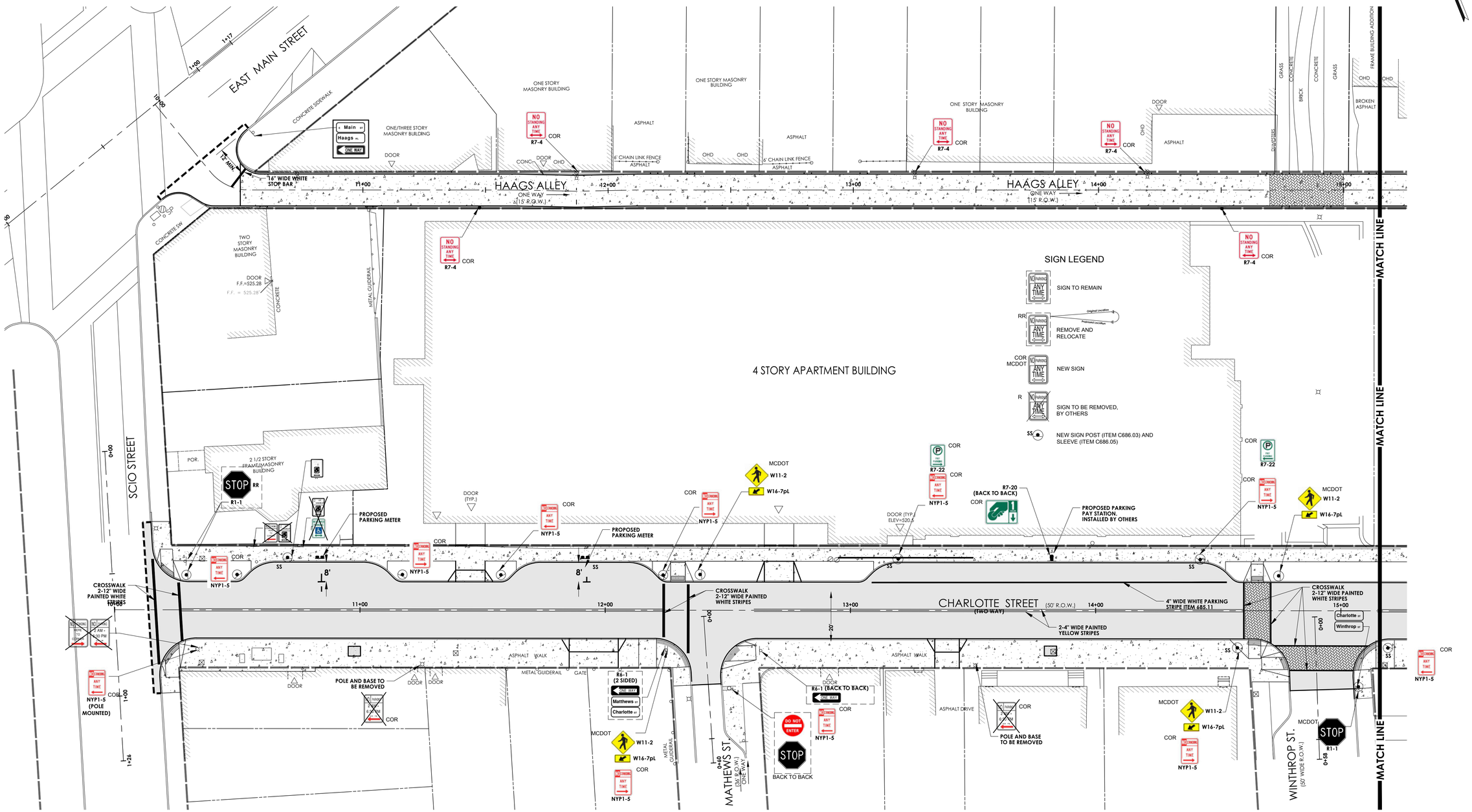
PROJECT TITLE
CHARLOTTE STREET & HAAGS ALLEY IMPROVEMENTS

NO.	REVISIONS	BY	DATE
1	Addendum #1	TAH	6/6

ISSUED MARCH, 2016
CHECKED D. SAVAGE
DRAWN C. HARVEY
DESIGN J. SUDOL
SCALE 1"=20'
PROJECT NUMBER 16116

DRAWING TITLE
INTERSECTION GRADING PLANS

DRAWING NO.
28
OF
36



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PROJECT TITLE
CHARLOTTE STREET & HAAGS ALLEY IMPROVEMENTS

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CHECKED D. SAVAGE
DRAWN C. HARVEY
DESIGN J. SUDOL
SCALE 1"=20'
PROJECT NUMBER 16116

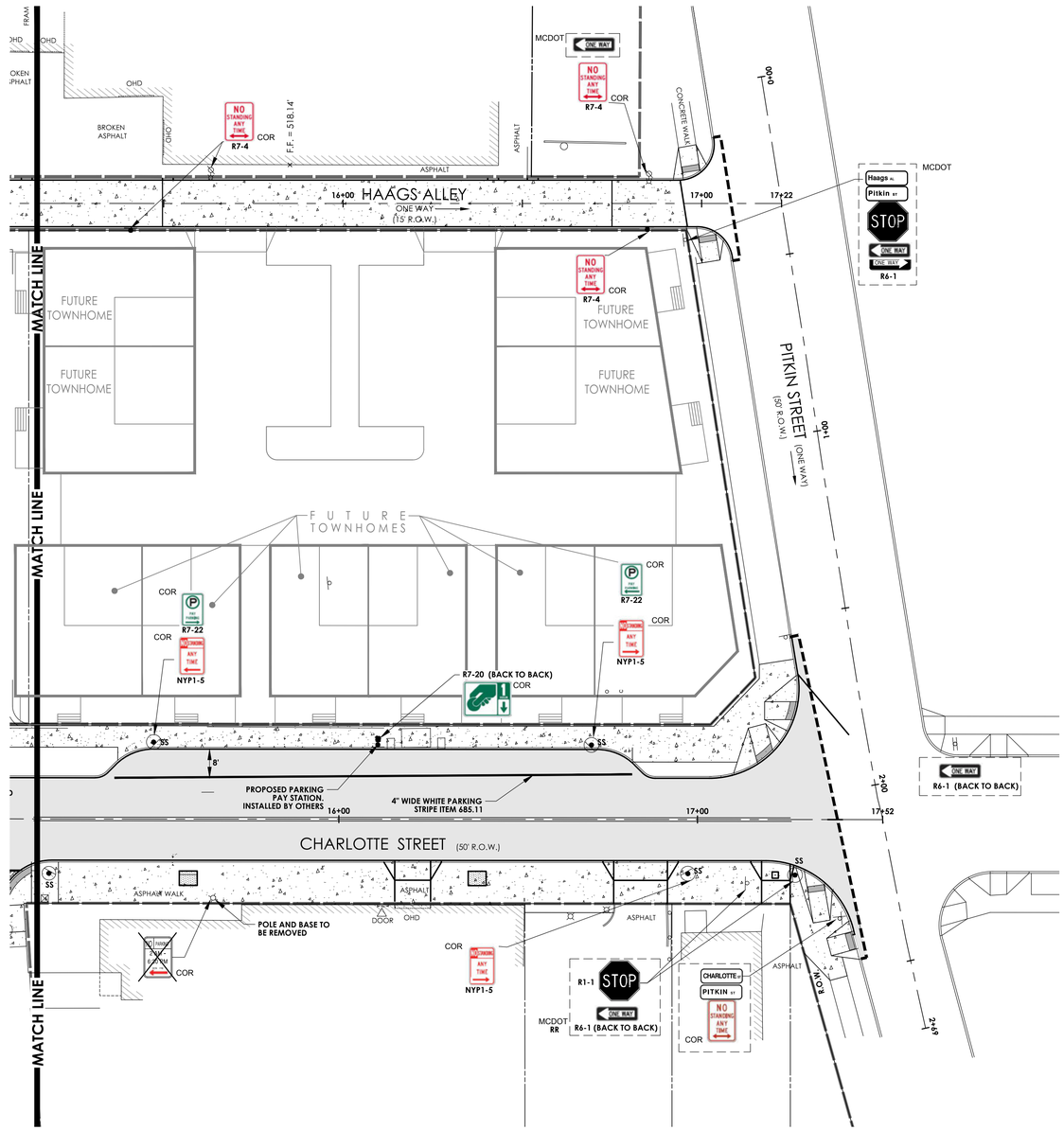
DRAWING TITLE
PAVEMENT MARKINGS AND SIGNAGE

DRAWING NO.
29
OF
36

HORIZONTAL SCALE

20 0 10 20 40

SCALE: 1"=20'



SIGN LEGEND

- SIGN TO REMAIN
- RR — REMOVE AND RELOCATE (Original Location / Proposed Location)
- COR MCDOT — NEW SIGN
- R — SIGN TO BE REMOVED, BY OTHERS
- SS — NEW SIGN POST (ITEM C686.03) AND SLEEVE (ITEM C686.05)

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PROJECT TITLE
CHARLOTTE STREET & HAAGS ALLEY IMPROVEMENTS

NO.	REVISIONS	BY	DATE
1	Addendum #1	TAH	6/6

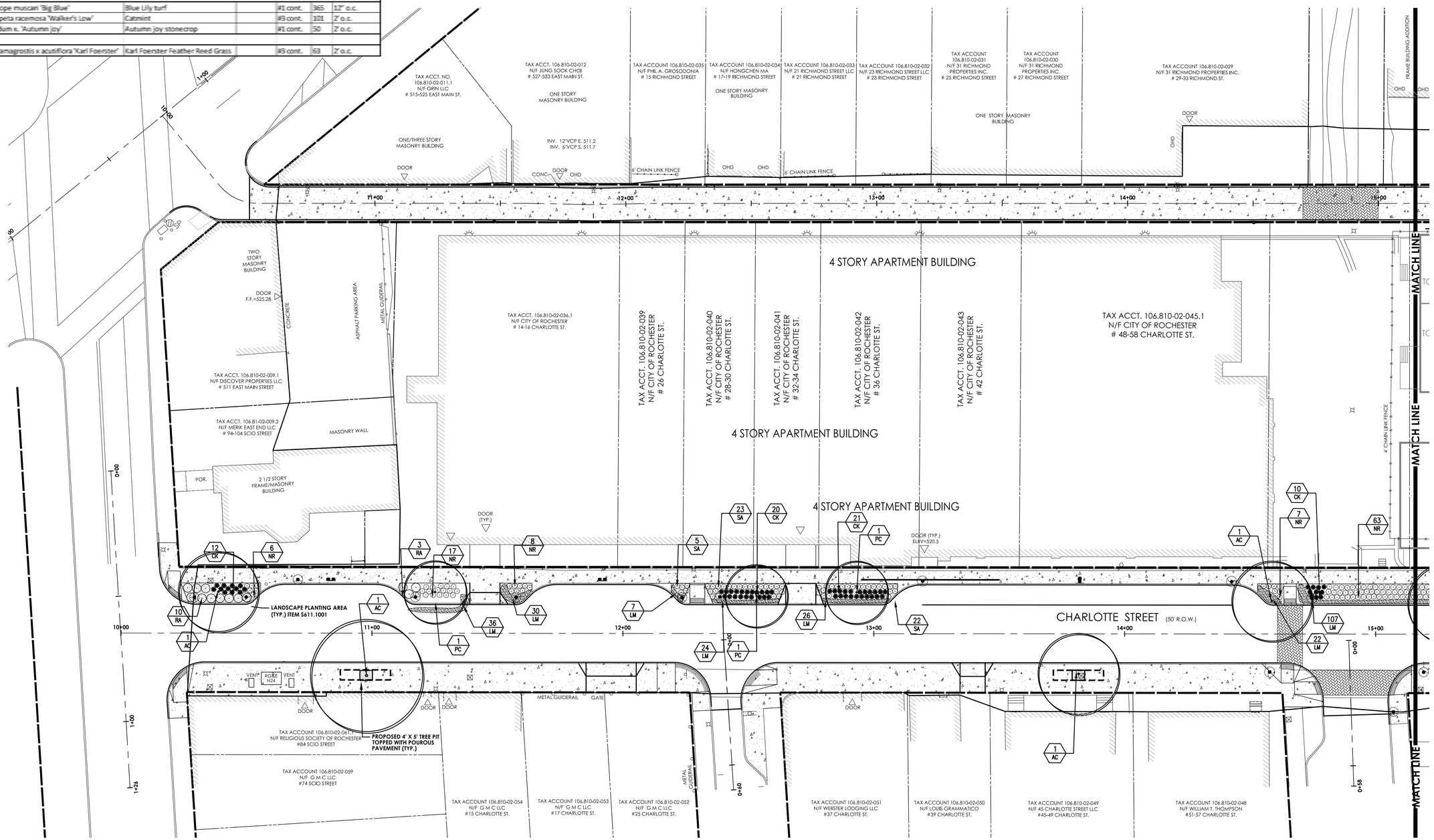
ISSUED MARCH, 2016
CHECKED D. SAVAGE
DRAWN C. HARVEY
DESIGN J. SUDOL
SCALE 1"=20'
PROJECT NUMBER 16116

DRAWING TITLE
PAVEMENT MARKINGS AND SIGNAGE

DRAWING NO. 30 OF 36

CHARLOTTE STREET PLANT SCHEDULE

Item	Key	Botanical Name	Common Name	Size	Root	Qty.	Notes
		DECIDUOUS TREES					
1.0501	AC	Acer x. Freemanii 'Celebration'	Celebration Maple	2.5-3" cal.	B&B	4	
1.0502	PC	Pyrus calleryana 'Cleveland Select'	Cleveland Select Pear	2.5-3" cal.	B&B	6	
		SHRUBS					
1.0701	RA	Rhus aromatica 'Gro-low"	Grow low fragrant sumac		#5 cont.	13	As shown
		PERENNIALS					
.9901	LM	Liriope muscari 'Big Blue'	Blue Lily turf		#1 cont.	365	12" o.c.
1.9902	NR	Nepeta racemosa 'Walker's Low'	Catmint		#3 cont.	101	2' o.c.
1.9903	SA	Sedum x. 'Autumn joy'	Autumn joy stonecrop		#1 cont.	50	2' o.c.
		GRASSES					
1.9904	CK	Calamagrostis x acutiflora 'Karl Foerster'	Karl Foerster Feather Reed Grass		#3 cont.	63	2' o.c.



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PROJECT TITLE
CHARLOTTE STREET & HAAGS ALLEY IMPROVEMENTS

NO.	REVISIONS	BY	DATE

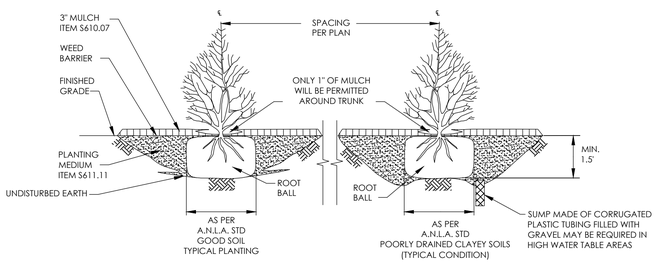
ISSUED FEBRUARY, 2016
CHECKED W. PRICE
DRAWN N.MIX
DESIGN N.MIX
SCALE 1"=20'
PROJECT NUMBER 16116

DRAWING TITLE
LIGHTING AND LANDSCAPING

DRAWING NO.
31
OF
35

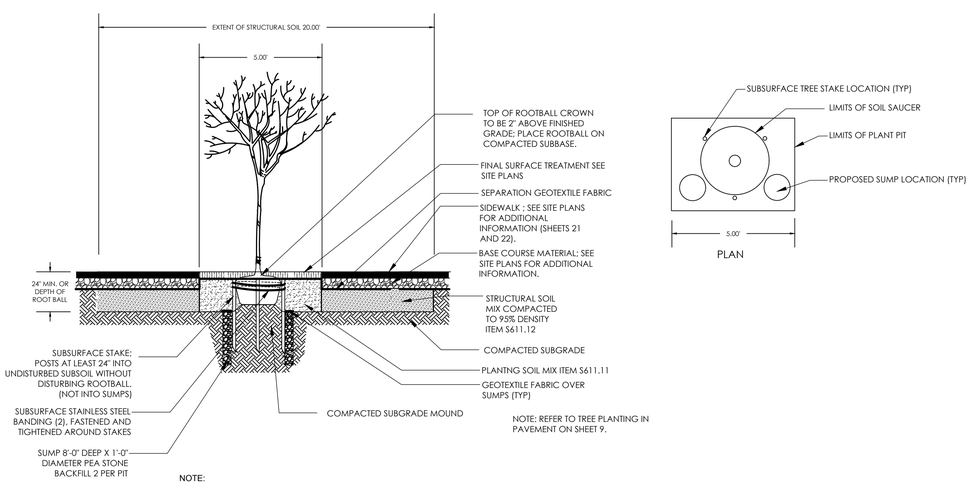
CHARLOTTE STREET PLANT SCHEDULE

Item	Key	Botanical Name	Common Name	Size	Root	Qty.	Notes
DECIDUOUS TREES							
S611.0502	AC	Acer x. Freemanii 'Celebration'	Celebration Maple	2.5-3" cal.	B&B	6	
SHRUBS							
S611.0701	RA	Rhus aromatica 'Gro-low"	Grow low fragrant sumac		#5 cont.	11	As shown
PERENNIALS							
S611.9902	NR	Nepeta racemosa 'Walker's Low'	Catmint		#3 cont.	6	2' o.c.
GRASSES							
S611.9904	CK	Calamagrostis x acutiflora 'Karl Foerster'	Karl Foerster Feather Reed Grass		#3 cont.	23	2' o.c.



1/31 TYP. SHRUB and PERENNIAL PLANTING DETAIL

NOT TO SCALE



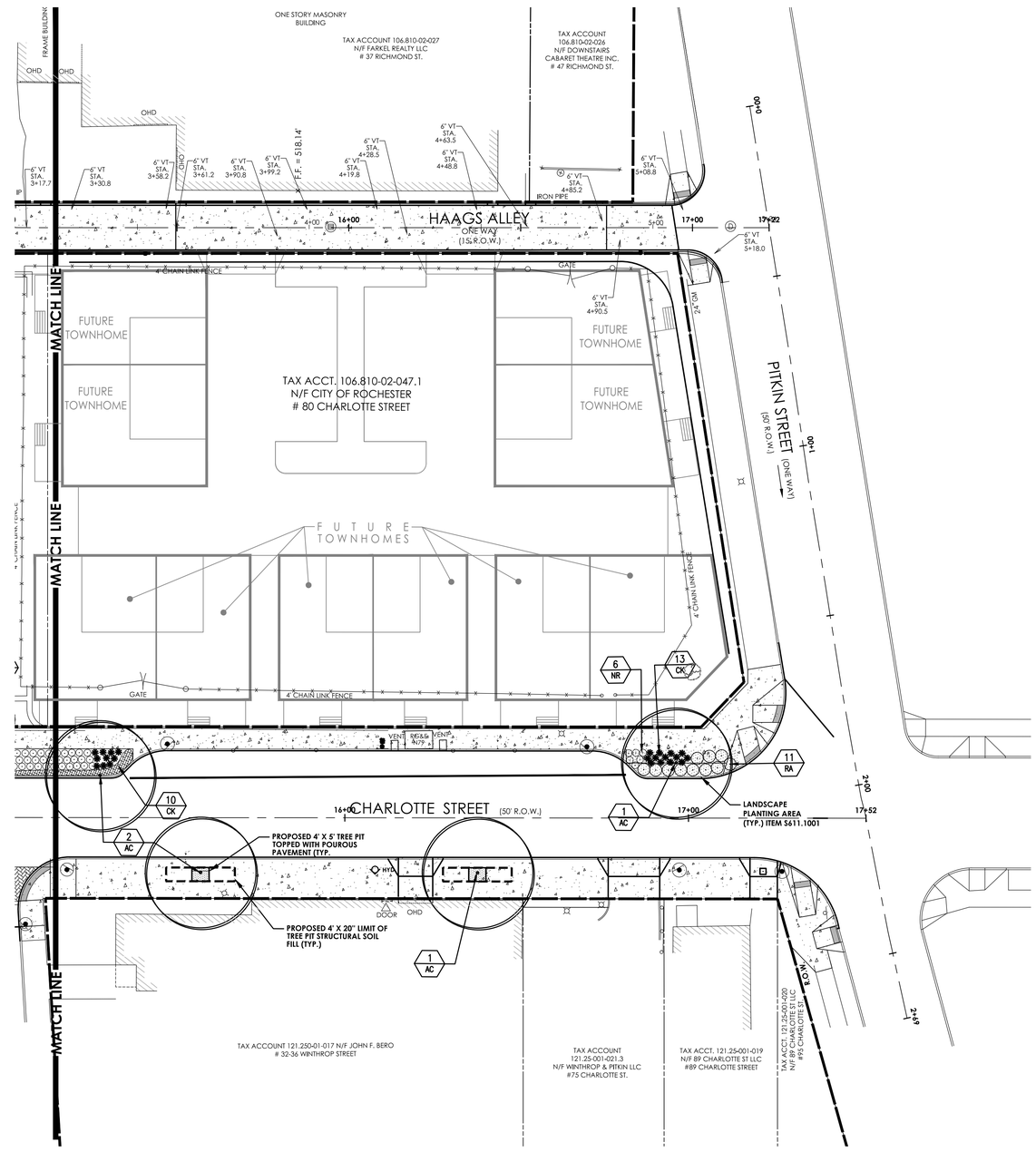
NOTE:

A. STAKES FOR BRACING TREES: 2-1/2" DIAMETER X 4.5' LONG, SHARPENED CEDAR POSTS OR 2" X 2" X 4.5' HARDWOOD . SUBSURFACE STAKES SHALL REMAIN IN PLACE. SHORTER HEIGHT STAKES MAY BE USED WHERE SUBSURFACE STAKING/GUYING IS INDICATED.

B. STAINLESS STEEL STRAPPING: SHALL BE, ½ " X.030" STAINLESS STEEL STRAPPING (S-11329). TO BE USED WITH H-1273 TENSIONER AND S-11331 STAINLESS STEEL SEALS, AS MANUFACTURED BY ULINE, 12575 ULINE DRIVE, PLEASANT PRAIRIE, WI 53158, 1 800 295-5510, WWW.ULINE.COM OR OWNER'S REPRESENTATIVE'S APPROVED EQUAL.

2/31 LONGITUDINAL SECTION OF STRUCTURAL SOIL LIMIT

NOT TO SCALE



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PROJECT TITLE
CHARLOTTE STREET & HAAGS ALLEY IMPROVEMENTS

NO.	REVISIONS	BY	DATE

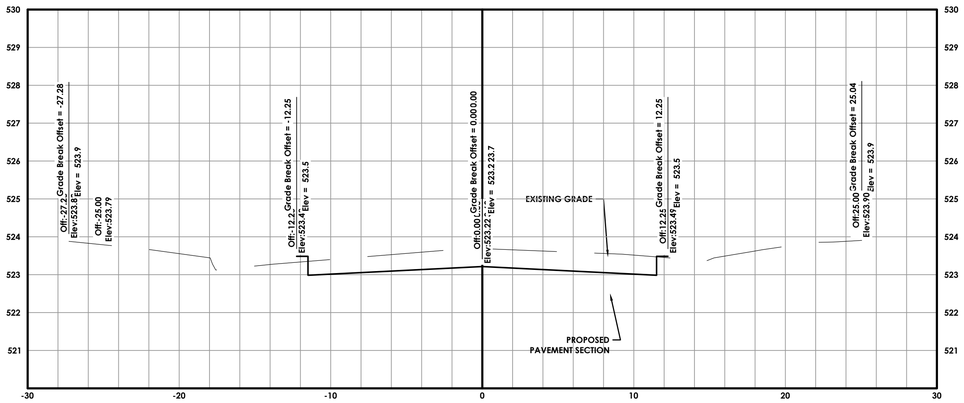
ISSUED FEBRUARY, 2016
CHECKED W.PRICE
DRAWN N.MIX
DESIGN N.MIX
SCALE 1"=20'
PROJECT NUMBER 16116

DRAWING TITLE
LIGHTING AND LANDSCAPING

DRAWING NO.
32
OF
35

CHARLOTTE STREET

10+50.00



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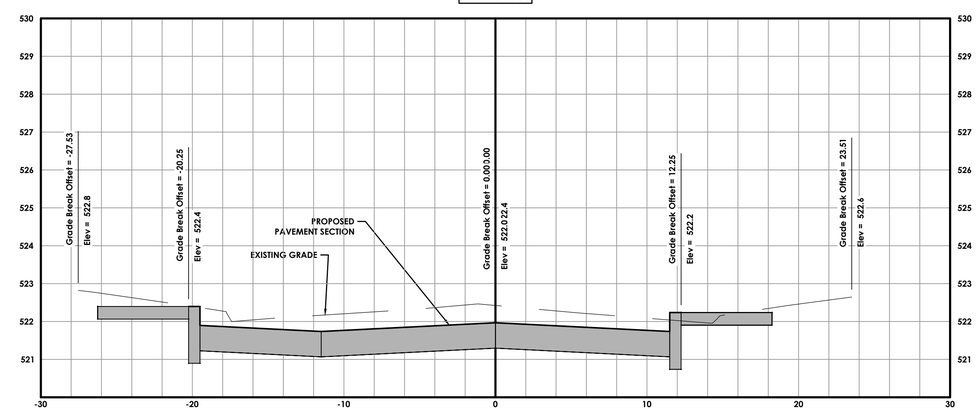

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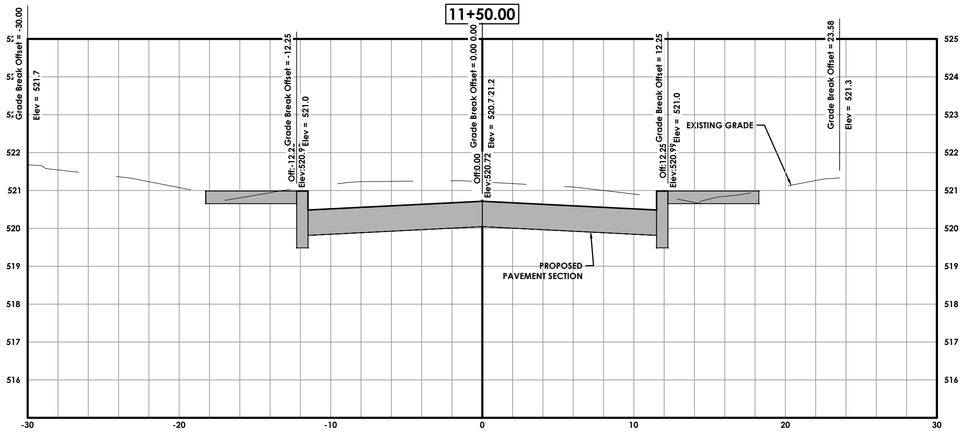

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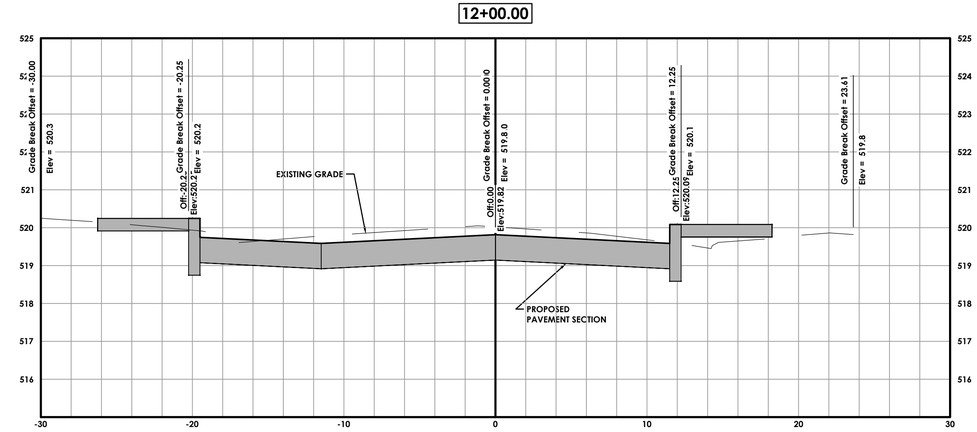

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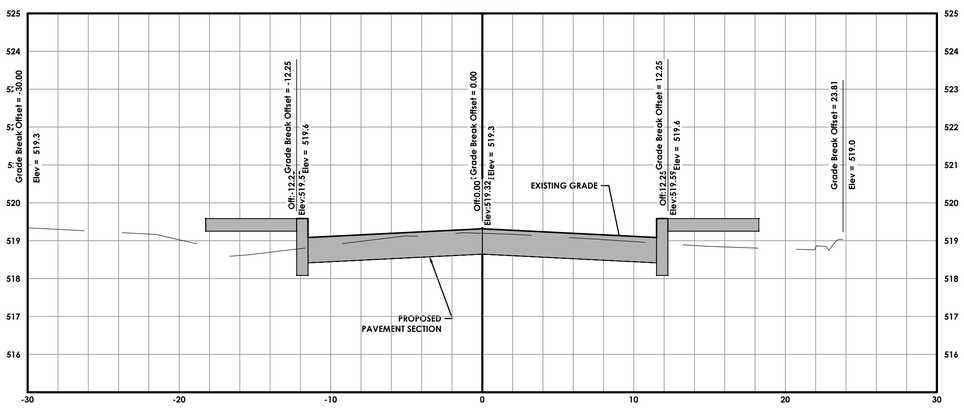

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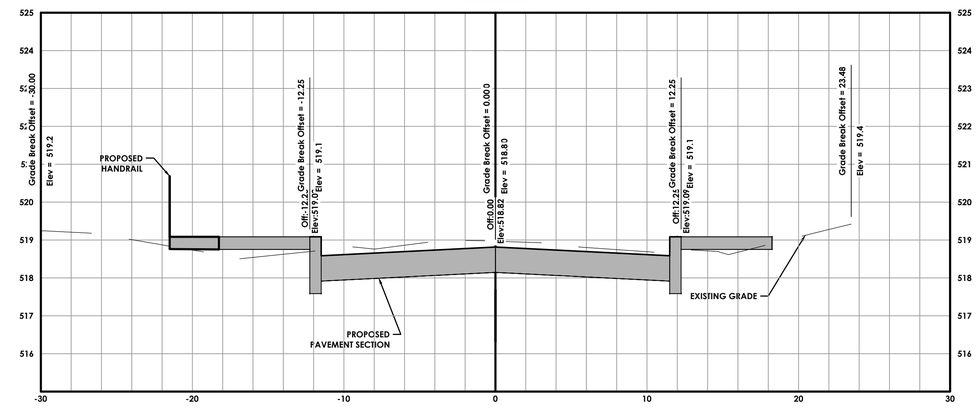

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CITY ENGINEER JAMES R. McINTOSH, P.E.

PROJECT TITLE
CHARLOTTE STREET & HAAGS ALLEY IMPROVEMENTS

NO.	REVISIONS	BY	DATE
1	Addendum #1	TAH	6/6

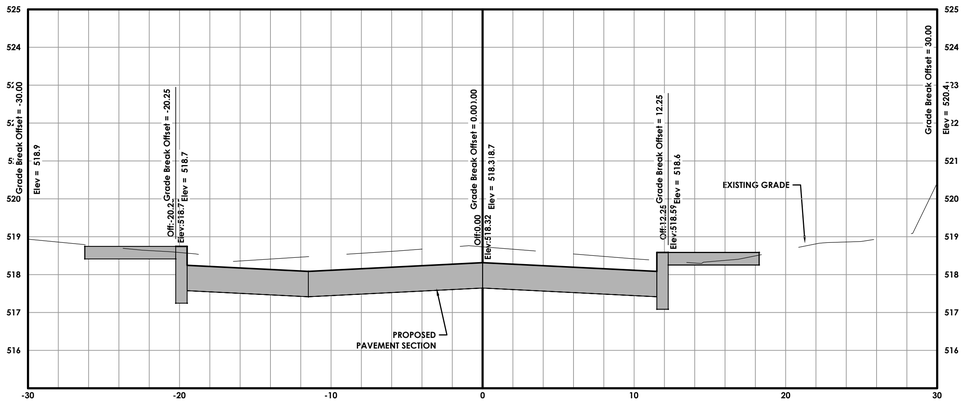
ISSUED MARCH, 2016
CHECKED D. SAVAGE
DRAWN C. HARVEY
DESIGN J. SUDOL
SCALE AS SHOWN
PROJECT NUMBER 16116

DRAWING TITLE
CROSS SECTIONS

DRAWING NO.
33
OF
36

CHARLOTTE STREET

13+50.00



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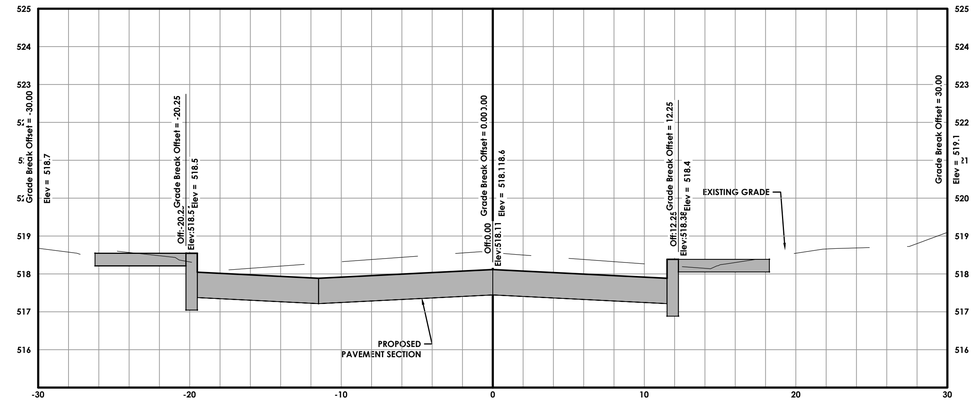

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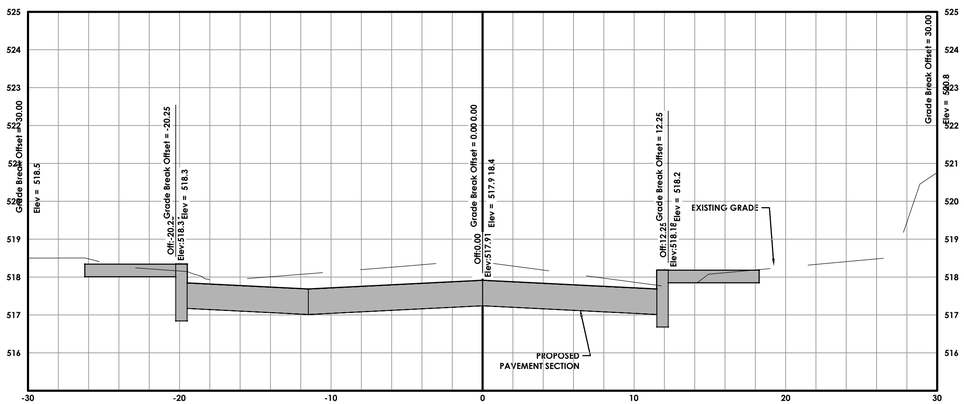

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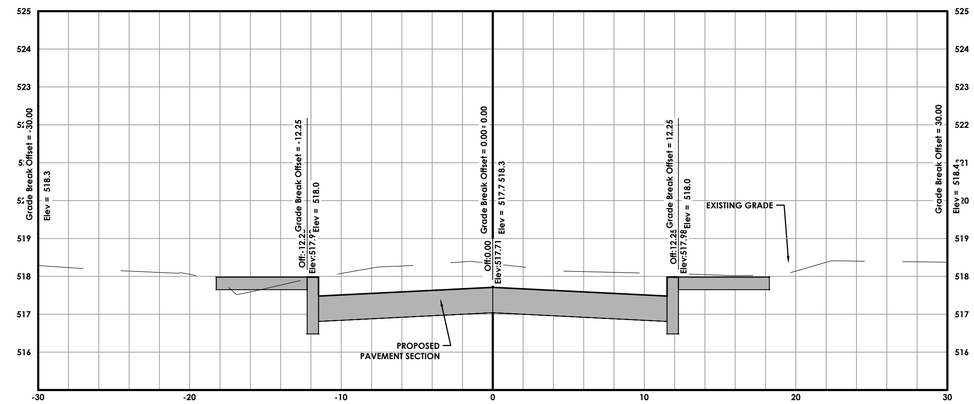

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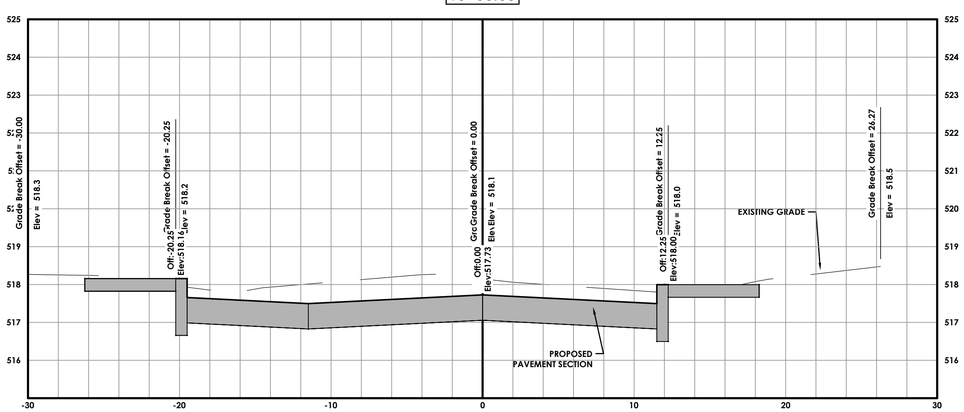

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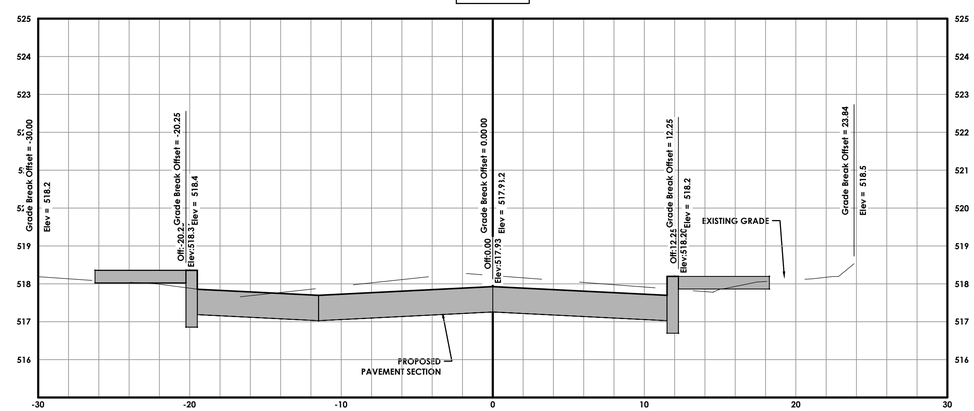

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CITY ENGINEER JAMES R. McINTOSH, P.E.

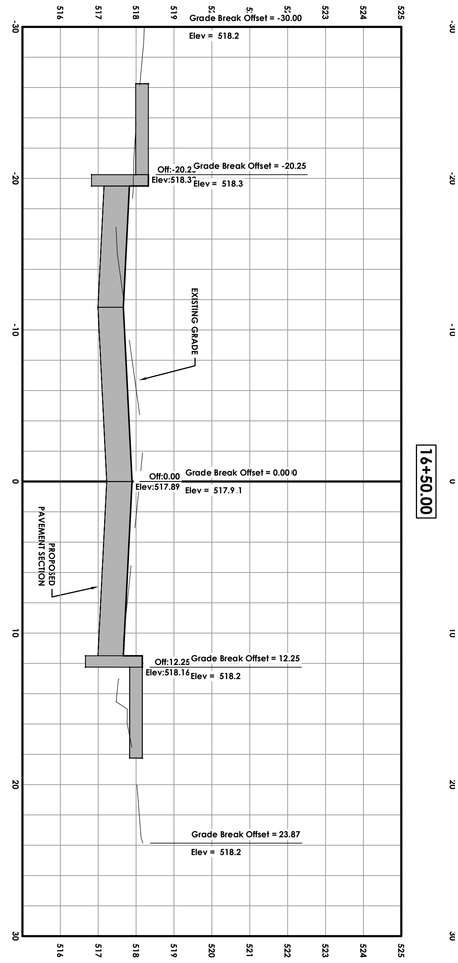
PROJECT TITLE
CHARLOTTE STREET & HAAGS ALLEY IMPROVEMENTS

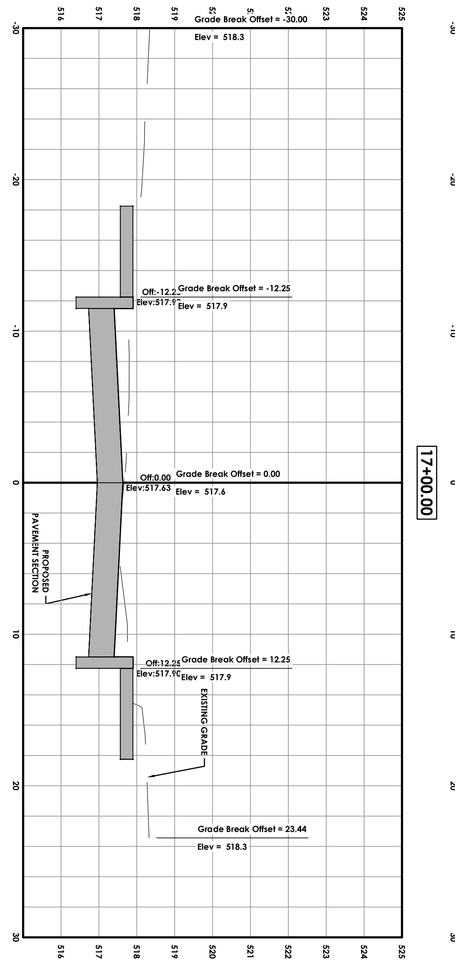
NO.	REVISIONS	BY	DATE
1	Addendum #1	TAH	6/6

ISSUED MARCH, 2016
CHECKED D. SAVAGE
DRAWN C. HARVEY
DESIGN J. SUDOL
SCALE AS SHOWN
PROJECT NUMBER 16116

DRAWING TITLE
CROSS SECTIONS

DRAWING NO.
34
OF
36





DRAWING TITLE	ISSUED	MARCH, 2016	1	Addendum #1	TAH 6/6
CROSS SECTIONS	CHECKED	D. SAVAGE			
	DRAWN	C. HARVEY			
	DESIGN	J. SUDOL			
	SCALE	AS SHOWN			
	PROJECT NUMBER	16116	NO.	REVISIONS	BY DATE

DRAWING NO. 35 OF 36

PROJECT TITLE

CHARLOTTE STREET & HAAGS ALLEY IMPROVEMENTS

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Architecture and Engineering Services
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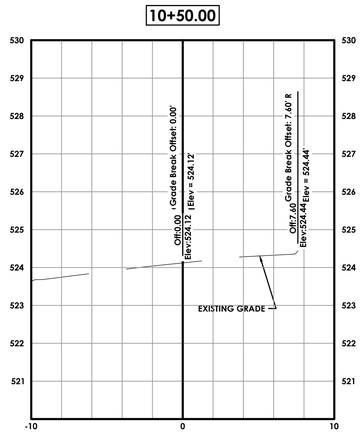
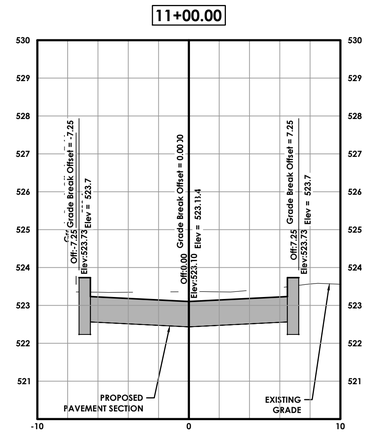
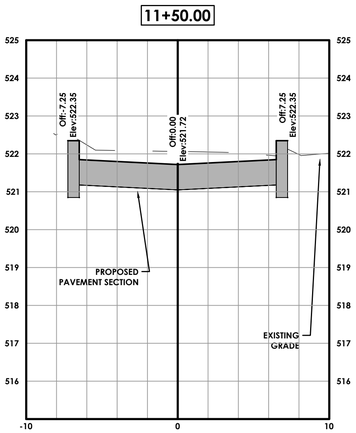
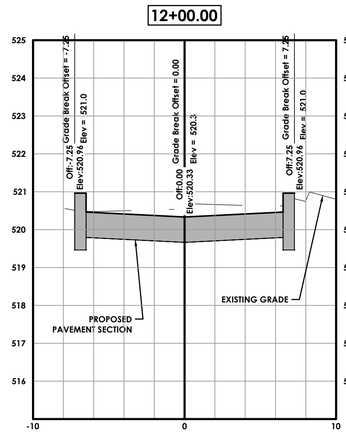
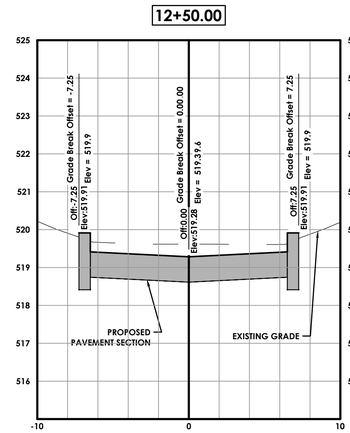
HAAGS ALLEY

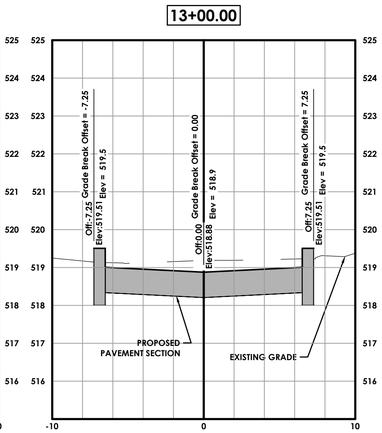


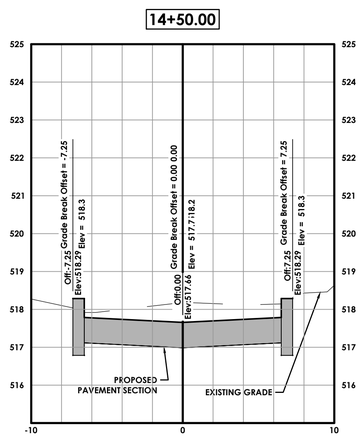


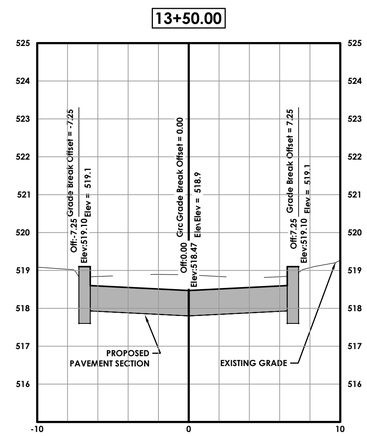


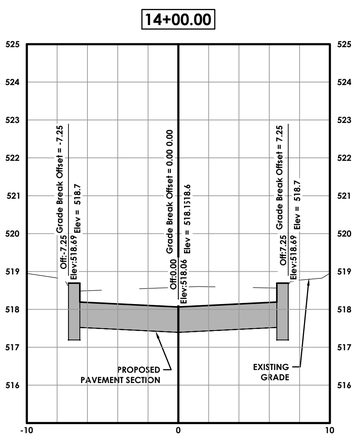


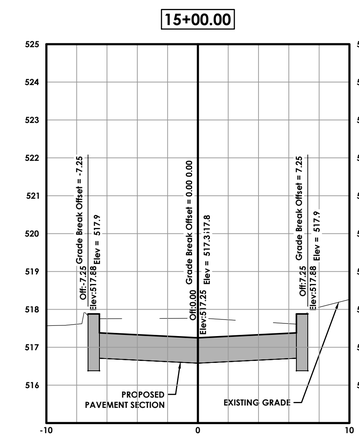


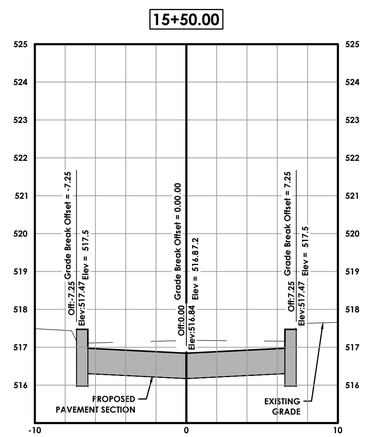


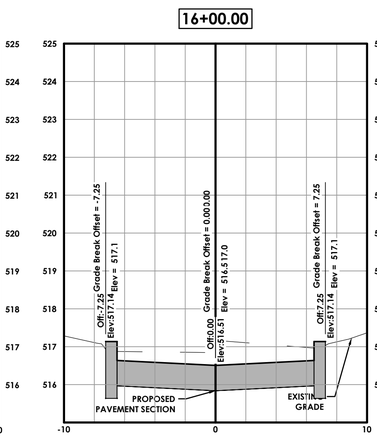


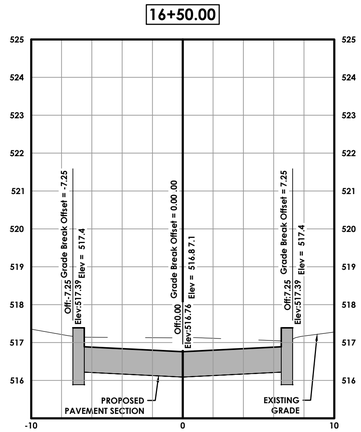


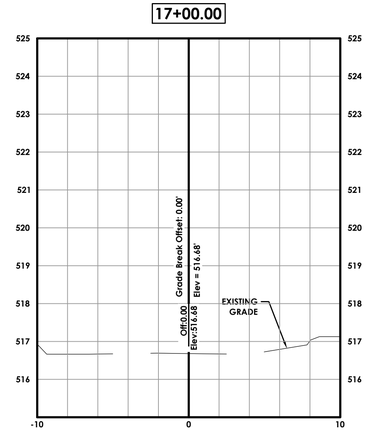












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CITY ENGINEER JAMES R. McINTOSH, P.E.

PROJECT TITLE
CHARLOTTE STREET & HAAGS ALLEY IMPROVEMENTS

NO.	REVISIONS	BY	DATE
1	Addendum #1	TAH	6/6

ISSUED MARCH, 2016
CHECKED D. SAVAGE
DRAWN C. HARVEY
DESIGN J. SUDOL
SCALE AS SHOWN
PROJECT NUMBER 16116

DRAWING TITLE
CROSS SECTIONS

DRAWING NO.
36
OF
36