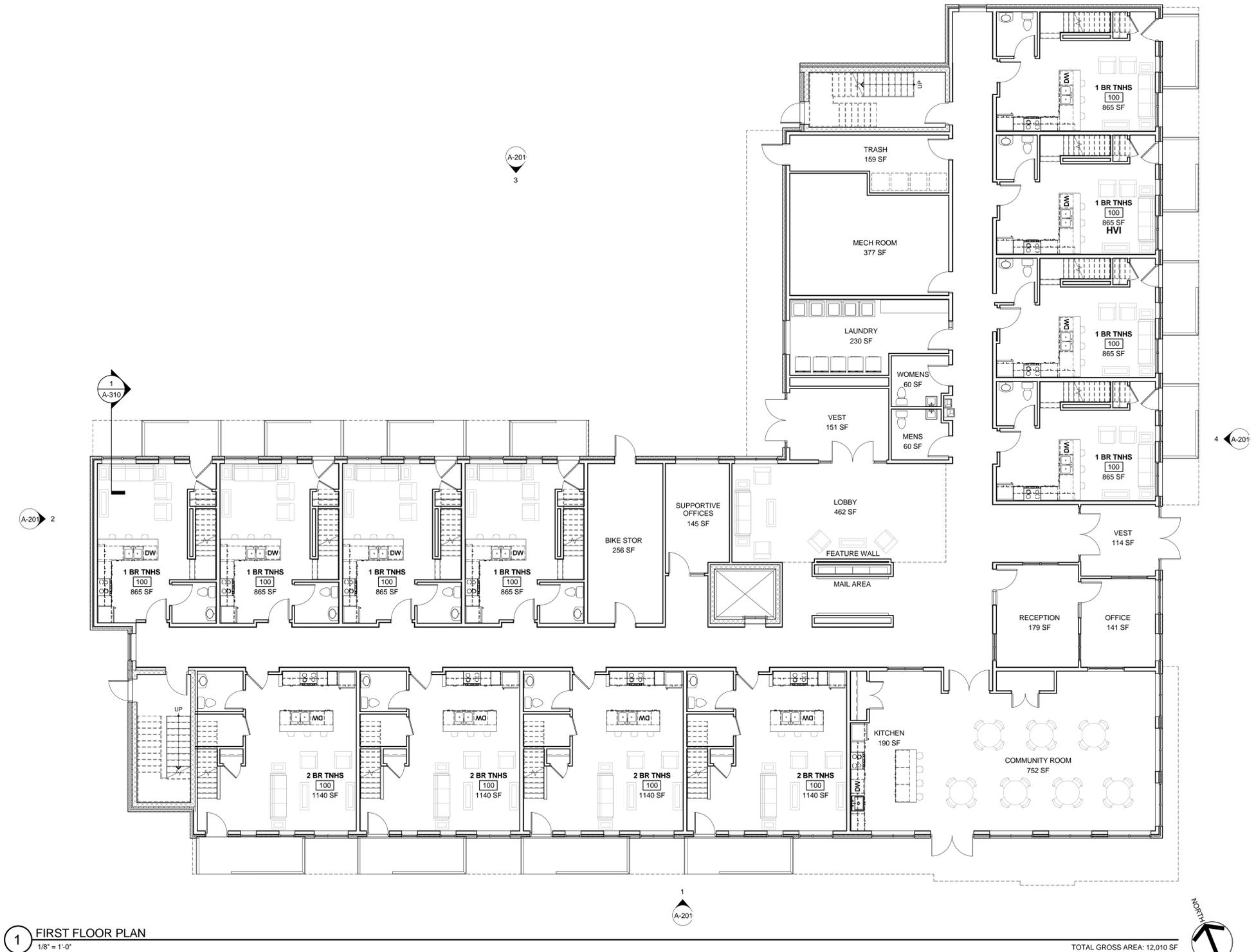




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 Voice: 585.232.8300
 Fax: 585.232.9221
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 ROCHESTER, NEW YORK



1 FIRST FLOOR PLAN
 1/8" = 1'-0"

TOTAL GROSS AREA: 12,010 SF

no.	date	by	description

PROJECT:
 CHARLOTTE SQUARE III

CLIENT:
 HOME LEASING
 180 CLINTON SQUARE

DRAWING TITLE
 FIRST FLOOR PLAN

DRAWING NO.	drawn by	ESR
A-101	checked	ESR
	proj. mgr.	TRG
	proj. no.	16495

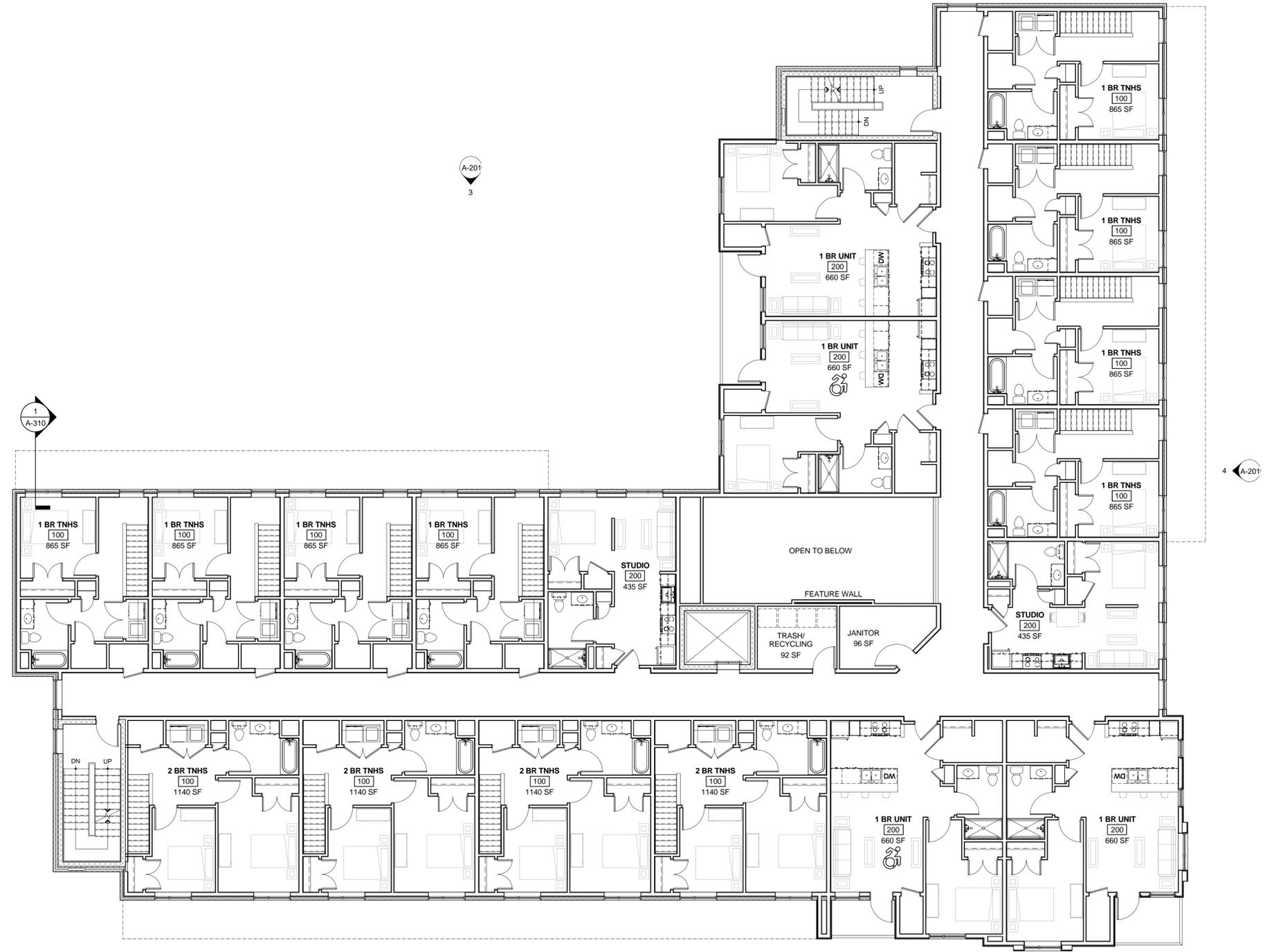
STATUS:
 PROGRESS SET

ISSUE DATE:
 11/3/2016



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 ROCHESTER, NEW YORK



1 SECOND FLOOR PLAN
 1/8" = 1'-0"

TOTAL GROSS AREA: 11,925 SF



REVISIONS			
no.	date	by	description

PROJECT:
 CHARLOTTE SQUARE III

CLIENT:
 HOME LEASING
 180 CLINTON SQUARE

DRAWING TITLE
 SECOND FLOOR PLAN

DRAWING NO.	drawn by	ESR
A-102	checked	ESR
	proj. mgr.	TRG
	proj. no.	16495

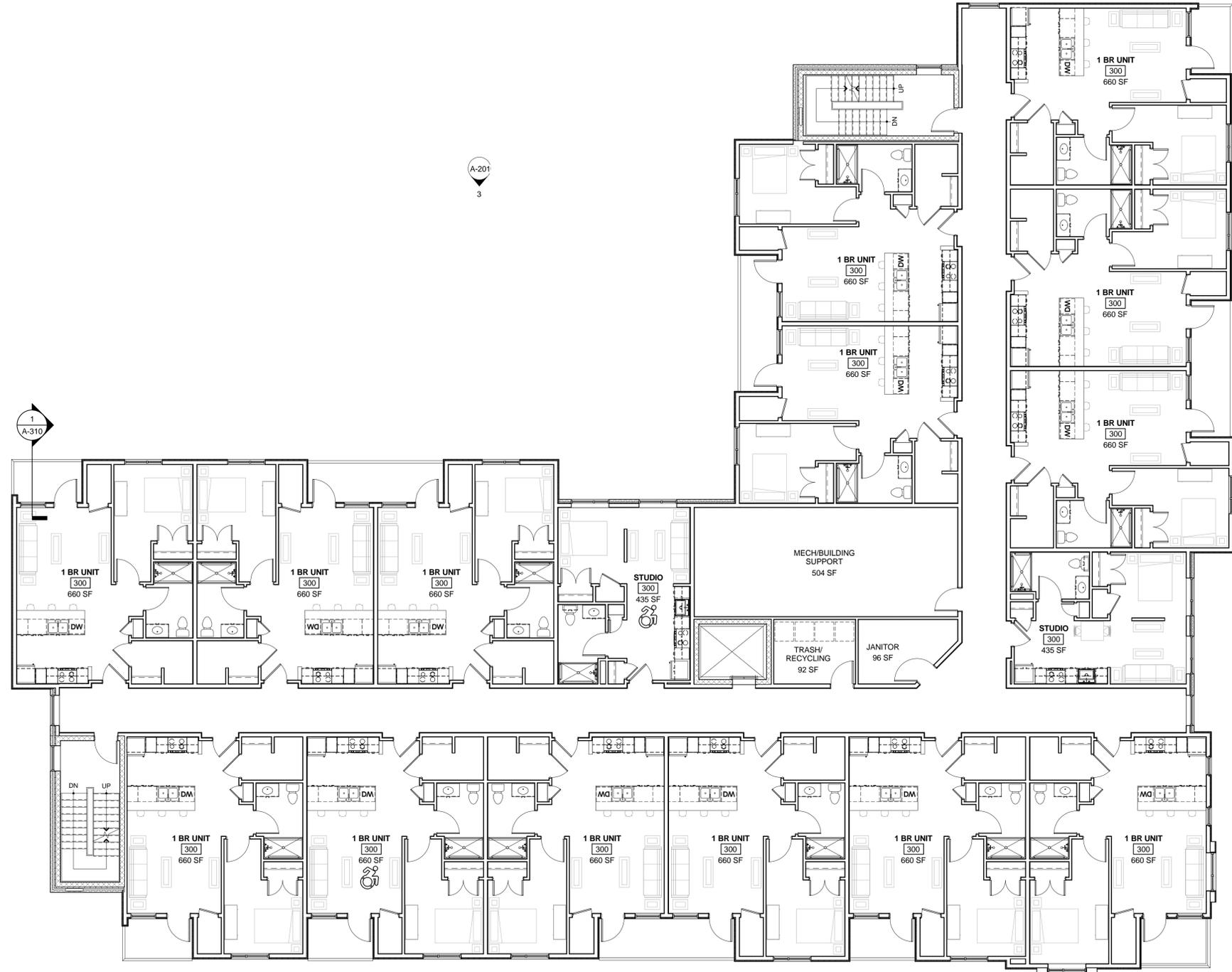
STATUS:
 PROGRESS SET

ISSUE DATE:
 11/3/2016



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 ROCHESTER, NEW YORK



1 THIRD FLOOR PLAN
 1/8" = 1'-0"

TOTAL GROSS AREA: 12,470 SF



REVISIONS			
no.	date	by	description

PROJECT:
 CHARLOTTE SQUARE III

CLIENT:
 HOME LEASING
 180 CLINTON SQUARE

DRAWING TITLE
 THIRD FLOOR PLAN

DRAWING NO. A-103	drawn by checked proj. mgr. proj. no.	ESR Checker TRG 16495
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STATUS:
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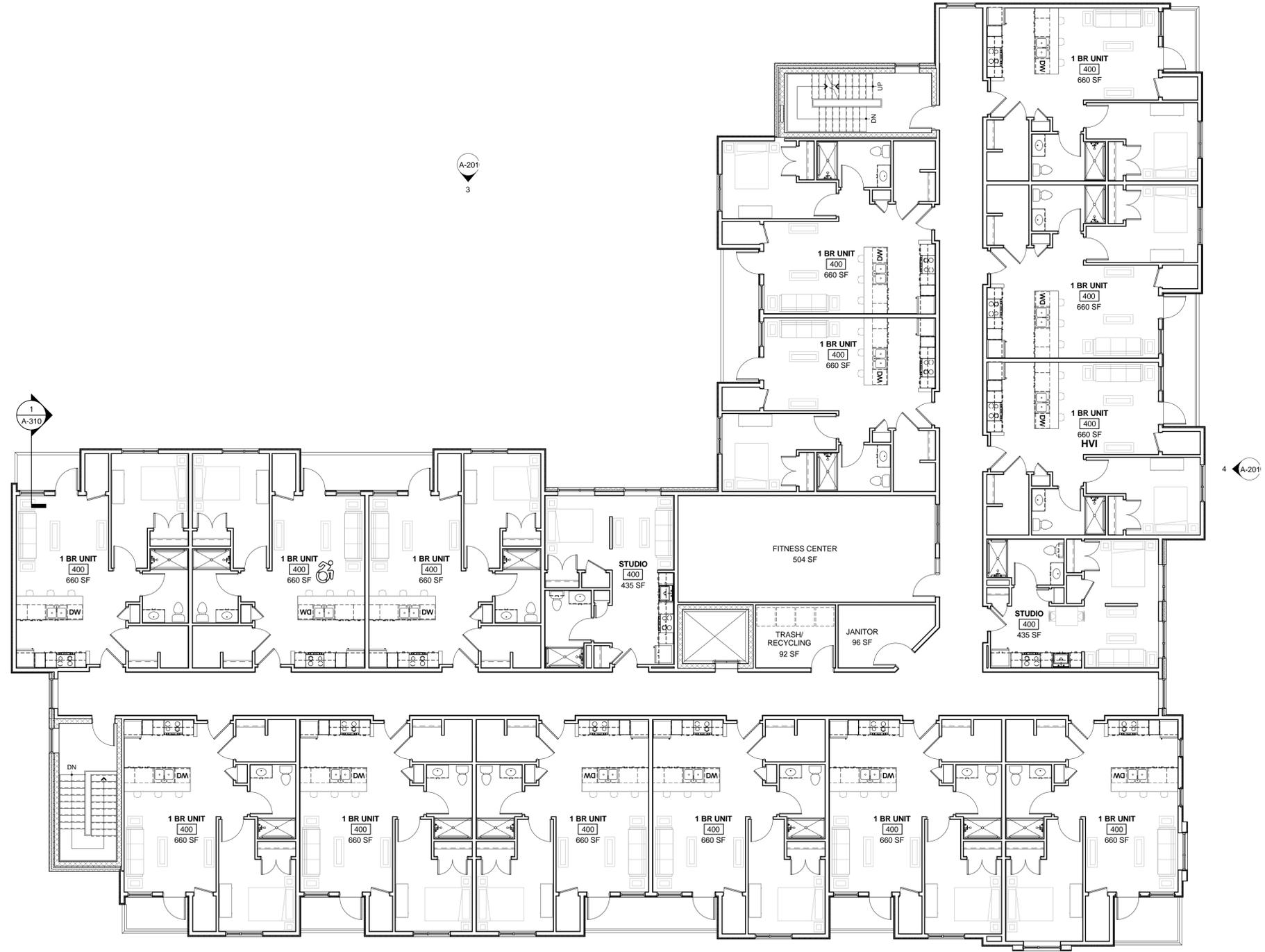
ISSUE DATE:
 11/3/2016



SWBR ARCHITECTS

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ROCHESTER, NEW YORK



1 FOURTH FLOOR PLAN
1/8" = 1'-0"

TOTAL GROSS AREA: 12,470 SF



REVISIONS			
no.	date	by	description

PROJECT:
CHARLOTTE SQUARE III

CLIENT:
HOME LEASING
180 CLINTON SQUARE

DRAWING TITLE
FOURTH FLOOR PLAN

DRAWING NO. A-104	drawn by checked proj. mgr.	ESR Checker TRG
	proj. no. 16495	

STATUS:
PROGRESS SET

ISSUE DATE:
11/3/2016



3 EXTERIOR ELEVATION - NORTH
1" = 10'-0"



4 EXTERIOR ELEVATION - EAST
1" = 10'-0"

2 EXTERIOR ELEVATION - WEST
1" = 10'-0"



1 EXTERIOR ELEVATION - SOUTH
1" = 10'-0"



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REVISIONS			
no.	date	by	description

PROJECT:
 CHARLOTTE SQUARE III

CLIENT:
 HOME LEASING
 180 CLINTON SQUARE

DRAWING TITLE
 EXTERIOR ELEVATIONS

DRAWING NO. A-201	drawn by ESR
	checked ESR
	proj. mgr. TRG
	proj. no. 16495

STATUS:
 PROGRESS SET

ISSUE DATE:
 11/3/2016



UNION STREET ELEVATION



CHARLOTTE STREET ELEVATION



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REVISIONS			
no.	date	by	description

PROJECT:
 CHARLOTTE SQUARE III

CLIENT:
 HOME LEASING
 180 CLINTON SQUARE

DRAWING TITLE
 EXTERIOR PERSPECTIVES

DRAWING NO.	drawn by	ESR
A-202	checked	ESR
	proj. mgr.	TRG
	proj. no.	16495

STATUS:
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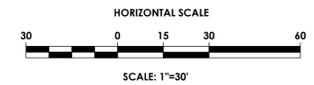
ISSUE DATE:
 11/3/2016

SITE DEVELOPMENT PLANS FOR

CHARLOTTE SQUARE PHASE III

CITY OF ROCHESTER, MONROE COUNTY, NEW YORK

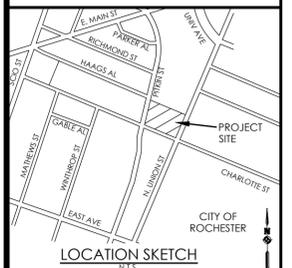
P.N. 20141995.0006



PASSERO ASSOCIATES
engineering architecture

DRAWING INDEX

- C 101 COVER
- C 102 SITE PLAN
- C 103 UTILITY PLAN
- C 104 GRADING & EROSION CONTROL PLAN
- C 105 LANDSCAPE AND LIGHTING
- C 201 DETAILS
- C 202 DETAILS
- C 203 DETAILS
- C 204 DETAILS



Client:
Home Leasing
180 Clinton Square
Rochester, NY 14604

PASSERO ASSOCIATES

242 West Main Street Suite 100
Rochester, New York 14614
(585) 325-1000
Fax: (585) 325-1691
Principal-in-Charge: John F. Caruso, P.E.
Project Manager: Jess Sudol, P.E.
Designed by: Tim Harris, P.E.



Revisions

No.	Date	By	Description
1			

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COVER

CHARLOTTE SQUARE PHASE III

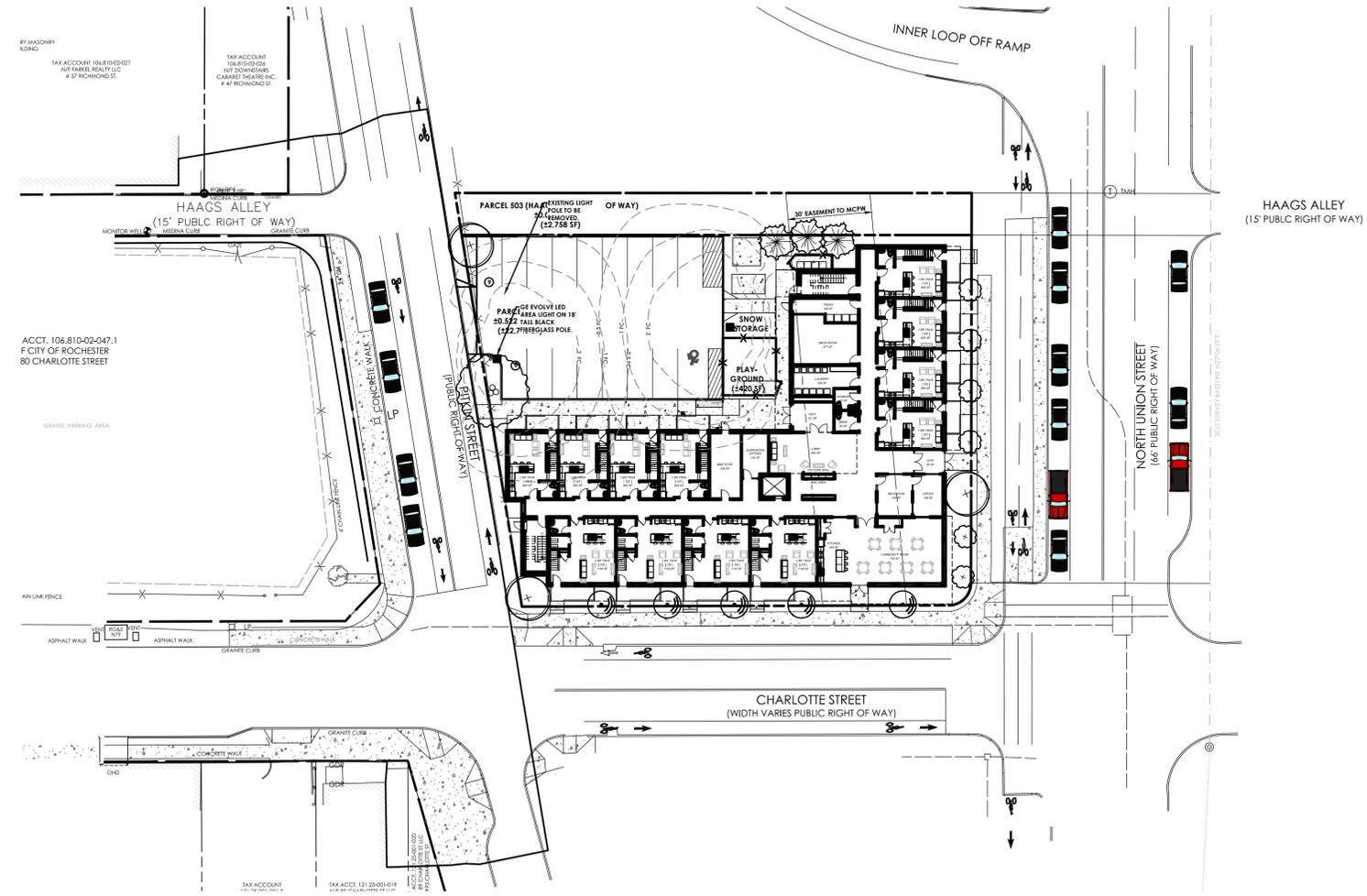
City: Rochester
County: Monroe
State: New York

Project No.
20141995.0006

Drawing No. C 101	Sheet No. 1
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Scale: **1" = 30'**

Date
NOVEMBER 2016



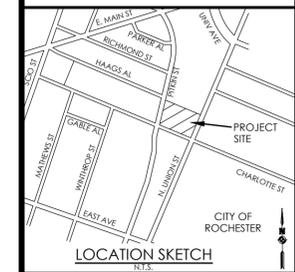
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PASSERO ASSOCIATES
engineering architecture

DRAWING INDEX

- C 101 COVER
- C 102 SITE PLAN
- C 103 UTILITY PLAN
- C 104 GRADING & EROSION CONTROL PLAN
- C 105 LANDSCAPE AND LIGHTING
- C 201 DETAILS
- C 202 DETAILS
- C 203 DETAILS
- C 204 DETAILS



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Revisions			
No.	Date	By	Description
1			

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SITE PLAN

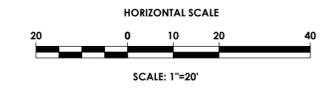
CHARLOTTE SQUARE
PHASE III
County: Monroe State: New York

Project No:
20141995.0006

Drawing No. C 102 Sheet No. 2

Scale: 1" = 20'

Date: NOVEMBER 2016



LEGEND:

---	PROPERTY BOUNDARY
---	R.O.W.
---	EXISTING CENTER LINE ROAD
---	EXISTING BUILDING
---	EXISTING FENCE
---	EXISTING EASEMENT LINE
---	PROPOSED EASEMENT LINE
---	PROPOSED BUILDING
---	PROPOSED CONCRETE
---	PROPOSED SIGN
---	PROPOSED LIGHT
---	DETECTABLE WARNING
---	CONCRETE GUTTER

SITE DATA

- TAX ACCOUNT NUMBER: LNK
- PARCEL ADDRESS: PARCEL 502, CHARLOTTE ST.
PROJECT AREA: 22,746 S.F. OR .522 ACRES
- EXISTING ZONING:
CCD-E CITY CENTER DISTRICT - EAST END
- EXISTING USE: VACANT
- PROPOSED USE: TOWNHOMES
- BULK AREA REQUIREMENTS

	REQUIRED	PROPOSED
FRONTAGE	N/A	155'
- LOT AREA REQUIREMENTS:

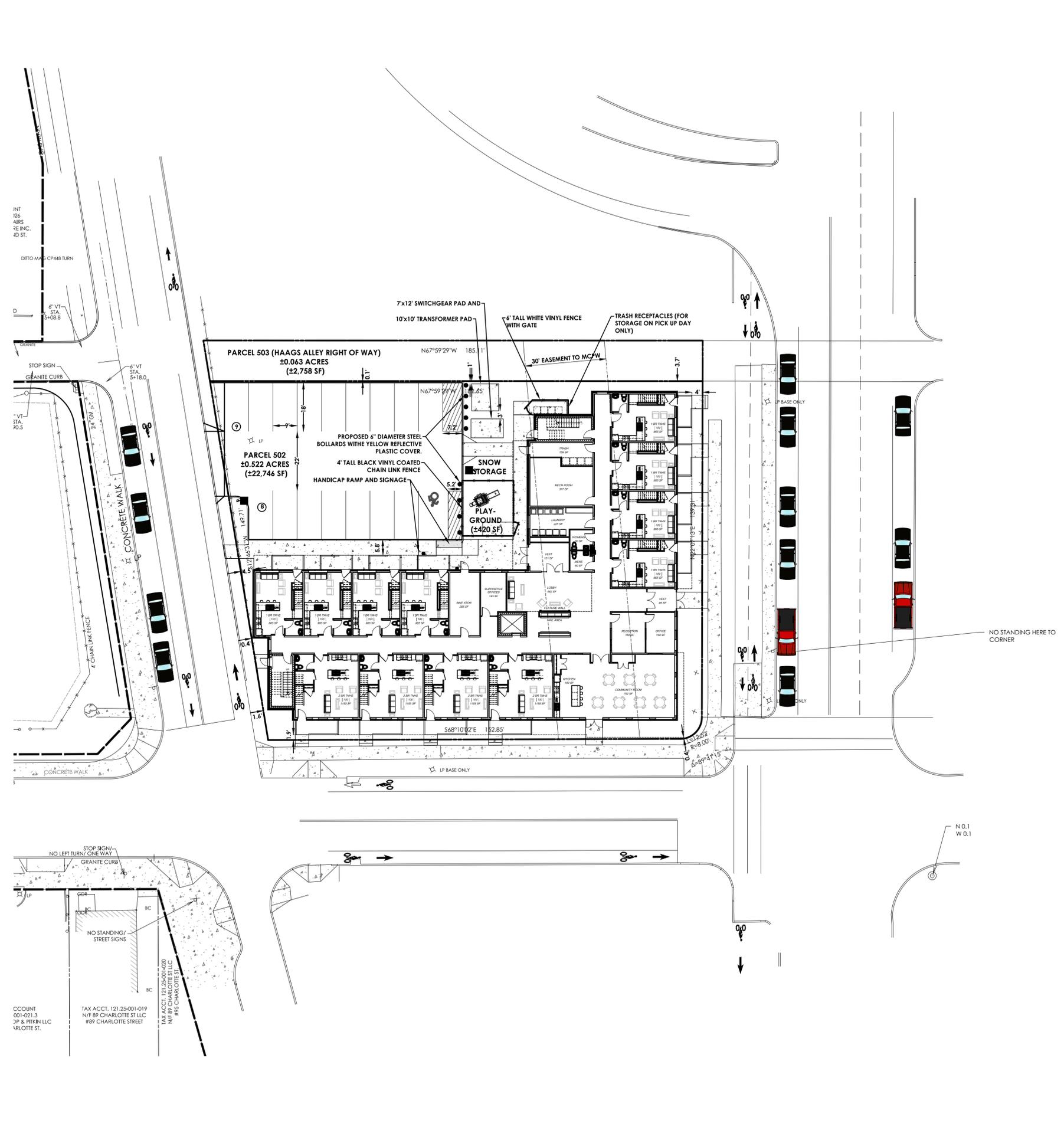
MINIMUM LOT AREA	N/A	.522 ACRES
MAXIMUM BUILDING COVERAGE	N/A	52.7%
LOT COVERAGE	N/A	86.5%
GREEN SPACE	N/A	13.5%
MINIMUM BUILDING HEIGHT	N/A	4 STORIES
FRONT SETBACK	0'	4'
MINIMUM SIDE SETBACK	0'	4'
MINIMUM REAR SETBACK	0'	4'
- THERE ARE NO WETLANDS ON THIS PARCEL ACCORDING TO THE USACOE FEDERAL WETLAND INVENTORY.
- THERE ARE NO STATE REGULATED WETLANDS ON THIS PARCEL ACCORDING TO NYSDEC WETLAND INVENTORY.
- THERE ARE NO FLOOD PLAINS ON THIS PARCEL PER FIRM MAP COMMUNITY PANEL NO. 34055C0211G DATED 08/28/2008.
- ALL IMPROVEMENTS SHALL BE MADE IN ACCORDANCE WITH THE CURRENT DEVELOPMENT STANDARDS AND SPECIFICATIONS OF THE CITY OF ROCHESTER.
- ANY WORK IN THE PUBLIC RIGHT-OF-WAY WILL REQUIRE SEPARATE PERMITS FROM THE ENGINEERING BUREAU PERMIT OFFICE, ROOM 112B.

GENERAL CITY NOTES:

- ALL FACILITIES TO BE CONSTRUCTED OR INSTALLED SHALL COMPLY WITH ALL THE LATEST REVISIONS AND APPLICABLE SECTIONS OF THE CITY OF ROCHESTER SUBDIVISION REGULATION.
- 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.
- CONTRACTOR IS CAUTIONED TO NOTIFY CENTRAL STAKEOUT AT 1-800-762-7962 FOR LOCATION OF ANY UNDERGROUND UTILITIES BEFORE UNDERTAKING ANY CONSTRUCTION IN THIS AREA. R.P.W.D.
- ALL FILL AREAS SHALL BE COMPACTED TO 95% OF ORIGINAL DENSITY PER MODIFIED PROCTOR TEST. THIS SHALL BE CERTIFIED TO ENGINEER IN ALL AREAS OF FILL BY A LICENSED TESTING COMPANY.
- ALL IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPROVED PLANS OR OTHER APPLICABLE REGULATIONS ABOVE.
- 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.
- 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.
- THE CONTRACTOR SHALL MAKE EXPLORATORY EXCAVATION TO LOCATE EXISTING UNDERGROUND FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS REQUIRED TO MEET EXISTING CONDITIONS.
- 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.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FOR ALL IMPROVEMENTS SHOWN ON THE APPROVED PLANS.
- HIGHWAY DRAINAGE SHALL BE MAINTAINED AT ALL TIMES.
- UPON COMPLETION OF THE PROJECT, AS-BUILT PLANS OF THE COMPLETED UTILITIES SHALL BE FURNISHED ON SUITABLE REPRODUCIBLE MATERIAL TO THE CITY, C.R.P.W. AND THE OWNER.
- 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.

PAVING NOTES:

- THE CONTRACTOR SHALL SAW-CUT THE EXISTING PAVEMENT, CURBS AND/OR SIDEWALKS WITH A NEAT, STRAIGHT AND VERTICAL EDGE AT ITS MATCH WITH NEW CONSTRUCTION. NEW PAVEMENT AND SIDEWALK SHALL BE WARPED TO MATCH TO EXISTING IN A SMOOTH TRANSITION. ALL EDGES ON EXISTING PAVEMENT SHALL BE TACK-COATED.
- ALL EDGES ON EXISTING SIDEWALK SHALL HAVE A BITUMINOUS EXPANSION JOINT AT THEIR MATCH WITH NEW SIDEWALK.
- ALL BACKFILL MATERIAL SHALL BE PLACED IN 6" LIFTS AND THOROUGHLY COMPACTED TO 95% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D-1557.
- ALL AREAS UNDER ROADWAY PAVEMENT THAT ARE EXCAVATED OR UNDERMINED SHALL BE BACKFILLED WITH CRUSHED STONE, COMPLYING WITH NYS DOT STANDARD SPECIFICATION ITEM NO. 304.12, AND SHALL BE PLACED AND COMPACTED IN 6" LIFTS UP TO THE ROADWAY SECTION SUBBASE ELEVATION.
- PRIOR TO THE PLACEMENT OF THE ROADWAY STONE SUBBASE COURSE, THE SUBGRADE SHALL BE PROOF-ROLLED TO ENSURE A STABLE CONDITION. CONTRACTOR SHALL REPAIR ANY DEFECT IN THE SUBGRADE CONDITION PRIOR TO PLACEMENT OF THE STONE SUBBASE COURSE. THE CONTRACTOR SHALL ALSO SHAPE THE SUBGRADE TO THE PROPOSED CROSS-SLOPE AND PROFILE PRIOR TO THE PLACEMENT OF ANY SUBBASE COURSE MATERIALS OR PAVEMENT MATERIALS.
- ALL EXISTING WATER VALVES, GAS VALVES, ELECTRIC/TELEPHONE HANDHOLES, MANHOLES AND ANY OTHER UTILITY SURFACE FEATURES SHALL BE ADJUSTED TO NEW FINISHED GRADE ELEVATION.
- ALL NEW CURBING SHALL BE BACKED WITH FILL AT A 1:5 SLOPE MINIMUM.

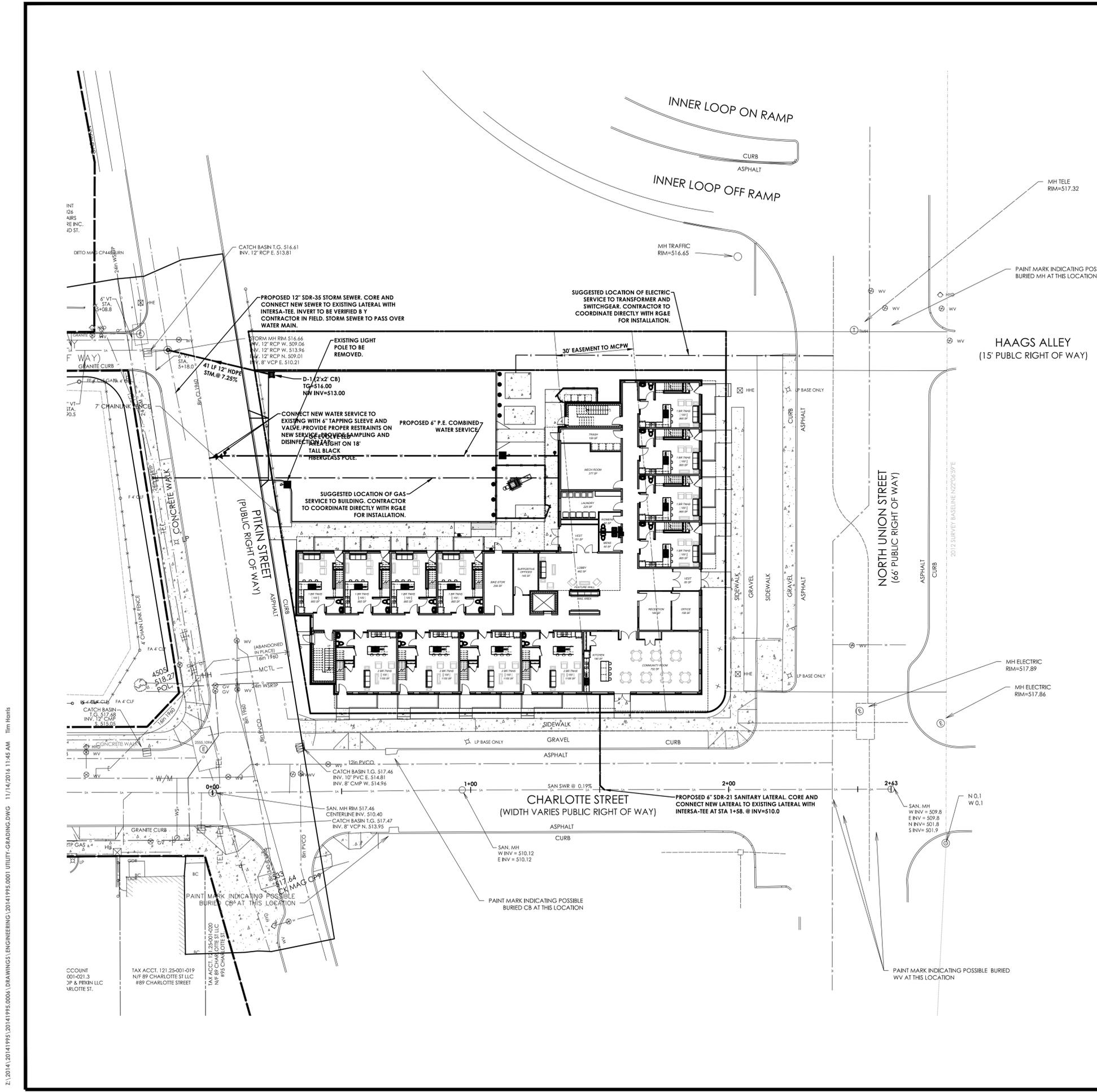


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CCOUNT
001-021.3
JP & PITKIN LLC
MLOTTIE ST.

TAX ACCT. 121-25-001-019
N/F 89 CHARLOTTE ST LLC
#89 CHARLOTTE STREET

TAX ACCT. 171-25-001-020
N/F 89 CHARLOTTE ST LLC
#89 CHARLOTTE ST



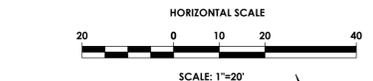
Watermain Approval

Monroe County Department of Public Health

These plans for Public Water System Extension / Improvement are hereby approved pursuant to 10NYCRR5 of the State Sanitary Code subject to conditions of Approval

Director of Public Health

By: Public Health Engineer Date:



LEGEND:

	PROPERTY BOUNDARY
	R.O.W.
	EXISTING CENTER LINE ROAD
	EXISTING BUILDING
	EXISTING FENCE
	EXISTING EASEMENT LINE
	PROPOSED EASEMENT LINE
	PROPOSED BUILDING
	PROPOSED CONCRETE
	PROPOSED SIGN
	PROPOSED LIGHT
	PROPOSED STORM SEWER, INLET MH, CB & END SECTION
	EXISTING STORM SEWER & MH
	PROPOSED WATER SERVICE W/ HYDRANT & VALVE
	EXISTING WATER SERVICE & VALVE
	PROPOSED SANITARY SEWER AND MANHOLE
	EXISTING SANITARY SEWER AND MANHOLE
	EXISTING ELECTRIC LINE & POLE
	EXIST. LIGHT POLE
	EXIST. ELECTRIC MANHOLE
	EXIST. ELECTRIC HANDHOLE
	EXIST. GAS VALVE
	EXIST. GAS MAIN
	EXIST. WATER MAIN
	EXIST. ELECTRIC LINE
	PROPOSED UNDERGROUND ELEC

UTILITY NOTES:

1. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE ALL UTILITY CONNECTIONS WITH MECHANICAL/ARCHITECTURAL DRAWINGS FOR LOCATION, PENETRATION, AND SIZES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE WITH ALL SUBCONTRACTORS FOR PROPER UTILITY CONNECTION LOCATIONS. ANY DISCREPANCIES SHALL BE IMMEDIATELY DESCRIBED TO ENGINEER AND ARCHITECT.
2. THE DEVELOPER AND HIS HER CONTRACTOR IS RESPONSIBLE FOR COORDINATING GAS, ELECTRICAL, CABLE, TELEPHONE AND ANY OTHER UTILITIES NOT SPECIFICALLY SHOWN WITHIN THIS PLAN SET WITH APPROPRIATE AGENCY. PASSERO ASSOCIATES ASSUMES NO RESPONSIBILITY FOR THE DESIGN OR PERFORMANCE OF THESE UTILITIES.
3. THE CONTRACTOR IS REQUIRED TO COORDINATE WITH SITE CONTRACTOR/PLUMBER & SEWER CONTRACTOR TO PREDETERMINE THE NECESSARY WYE & CLEANOUT LOCATION ON THE STORM SEWER SYSTEM. THE STORM SEWER SYSTEM IS RECOMMENDED AND MAY BE MODIFIED TO PROVIDE ADEQUATE ROOF DRAINAGE CONNECTIONS.
4. THRUST BLOCKS ON THE WATERMAIN ARE REQUIRED AT BENDS, TEES OR PLUGS. SEE DETAIL SHEETS FOR THRUST BLOCK DETAILS.

GENERAL NOTES:

1. THE SANITARY SEWER SYSTEM SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS OF THE NEW YORK STATE AND MONROE COUNTY HEALTH DEPARTMENTS AND CITY OF ROCHESTER.
2. WATER SERVICE WILL BE INSTALLED IN ACCORDANCE WITH THE RULES, REGULATIONS AND STANDARDS OF THE MONROE COUNTY WATER AUTHORITY.
3. THE BUILDING CONSTRUCTION SHALL BE IN COMPLIANCE WITH THE NEW YORK STATE BUILDING CODE.
4. ANY COST RELATED TO THE RELOCATION OF ANY UTILITIES NECESSITATED BY THIS PROJECT SHALL BE THE RESPONSIBILITY OF THE OWNER OR THOSE REQUESTING THE RELOCATION OF THE UTILITY.
5. ALL PROPERTY CORNERS TO BE MARKED WITH IRON PINS.
6. ALL CONSTRUCTION WILL BE IN ACCORDANCE WITH THE DESIGN CRITERIA AND CONSTRUCTION SPECIFICATIONS FOR LAND DEVELOPMENT FOR THE CITY OF ROCHESTER, LATEST EDITION.

STORM NOTES:

1. STORM SEWER LATERAL MATERIAL SHALL BE PVC SDR-35 4" MIN. SIZE & SHALL BE LAID AT A MINIMUM GRADE OF 1/4" PER FT.
2. STORM SEWER MATERIAL INCLUDING CROSSOVERS SHALL BE ADS HDPE 12" MIN.
3. FOUNDATION DRAINS WILL BE CONNECTED TO STORM WATER SYSTEM.
4. AFTER ROOF CONSTRUCTION IN A SECTION ARE COMPLETED, THE STORM SYSTEM SHALL BE FLUSHED. ALL DEPOSITED SEDIMENT AT THE SEWER OUTLET SHALL BE REMOVED.
5. SITE CONTRACTOR TO VERIFY LOCATION OF ALL DOWNSPOUTS W/ ARCHITECTS AND PROVIDE APPROPRIATE FITTINGS & PIPING TO CONNECT DOWNSPOUTS TO STORM LATERAL (TYP.)
6. ALL DEDICATED STORM SEWERS SHALL BE TELEVIEWED AND RECORDINGS PROVIDED TO THE CITY OF ROCHESTER.

SANITARY NOTES:

1. SANITARY SEWER LATERAL MATERIAL SHALL BE PVC SDR-21 - 4" MINIMUM SIZE AND SHALL BE LAID AT A MINIMUM GRADE OF 1/4" PER FOOT.
2. SANITARY SEWER MATERIAL SHALL BE PVC SDR-35 - 8" MINIMUM SIZE AND MINIMUM SLOPE - 0.4%.
3. INFILTRATION AND EXFILTRATION FOR SANITARY SEWERS SHALL BE LIMITED TO 100 GALLONS PER MILE PER INCH DIAMETER OF PIPE PER 24 HOURS.
4. IF AN AIR TEST IS USED, THE TEST AS A MINIMUM SHALL CONFORM TO THE PROCEDURE DESCRIBED IN ASTM C-828-B0. ENTITLED STANDARD PRACTICE FOR LOW PRESSURE AIR TEST OF VITRIFIED CLAY PIPELINES; SANITARY MANHOLES SHALL BE TESTED FOR EXFILTRATION.
5. VACUUM TESTING OF MANHOLES IS ALLOWED. THE CONTRACTOR IS CAUTIONED TO SPEAK TO THE SUPERINTENDENT OF SEWERS PRIOR TO COMMENCING WITH PLANS TO VACUUM TEST. DEFLECTION TEST - TEN STATE STANDARDS.
- 5.A. DEFLECTION TESTS SHALL BE PERFORMED ON ALL FLEXIBLE PIPE. THE TEST SHALL BE CONDUCTED AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS.
- 5.B. IF THE DEFLECTION TEST IS TO BE RUN USING A RIGID BALL OR MANDREL, IT SHALL HAVE A DIAMETER EQUAL TO 95% OF THE INSIDE DIAMETER OF THE PIPE. THE TEST SHALL BE PERFORMED WITHOUT MECHANICAL PULLING DEVICES.
- 5.C. NO PIPE SHALL EXCEED A DEFLECTION OF 5%.
6. ALL SANITARY SEWER INSTALLATION SHALL BE MADE IN CONFORMANCE WITH THE SPECIFICATIONS, REGULATIONS, AND POLICIES OF THE Brighton SEWER DISTRICT.
7. ALL HOUSE LATERALS SHALL HAVE A CLEANOUT AT THE PROPERTY LINE OR EASEMENT LINE.
8. FLOOR DRAINS, IF CONSTRUCTED, SHALL BE CONNECTED TO THE SANITARY SEWER/COMBINATION SEWER. (FLOOR DRAINS DO NOT INCLUDE FOUNDATION/FOOTER DRAINS). ALL DISCHARGES TO THE SANITARY/COMBINATION SEWER MUST COMPLY WITH THE EFFLUENT LIMITS OF THE LOCAL AND/OR THE MONROE COUNTY SEWERAGE USE LAW.
9. EXISTING AND NEW SANITARY SEWER SHALL BE TELEVIEWED AND RESULTS PROVIDED TO THE TOWN FOR RECORD.
10. IF THE LATERALS REQUIRE ANY IMPROVEMENTS TO PROVIDE THIS SERVICE, OR IF THE SEWER DEPARTMENT DETERMINES THAT THERE ARE DEFICIENCIES IN THE SERVICE LINE THAT REQUIRE CORRECTIVE ACTION, IT SHALL BE DONE SO AT THE EXPENSE OF THE APPLICANT

STANDARD WATER MAIN EXTENSION NOTES:

1. THE WATER MAIN SHALL BE DISINFECTED EQUAL TO AWWA STANDARD FOR DISINFECTING WATER MAINS DESIGNATION C651 (LATEST REVISION), FOLLOWING DISINFECTION, THE WATER MAIN PIPELINE SHALL BE FLUSHED UNTIL THE CHLORINE CONCENTRATION IN THE WATER LEAVING THE MAIN IS NO HIGHER THAN THAT GENERALLY PREVAILING IN THE SYSTEM.
- ALL WATER MAIN FITTINGS NOT RECEIVING 24-HOUR CHLORINE DISINFECTION CONTACT TIME MUST BE SWAB DISINFECTED 30 MINUTES PRIOR TO INSTALLATION.
- THE SAMPLING POINT(S) MUST BE DECONTAMINATED BY FLAMING.
- FIRE HYDRANTS ARE NOT ACCEPTABLE SAMPLING POINTS.
- THE MONROE COUNTY DEPARTMENT OF PUBLIC HEALTH MUST RECEIVE AT LEAST 48-HOUR ADVANCE NOTIFICATION REQUESTING SAMPLING SERVICES. 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 UNDER SECTION 7208(n) OF THE EDUCATION 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 PIPE AND APPURTENANCES SHALL NOT BE PLACED INTO SERVICE UNTIL SO AUTHORIZED BY THE MONROE COUNTY DEPARTMENT OF PUBLIC HEALTH.
- MINIMUM VERTICAL SEPARATION BETWEEN WATER MAIN PIPELINES AND SEWER PIPELINES SHALL BE 18 INCHES MEASURED FROM THE OUTSIDE OF THE PIPE 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. 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.
- WHEN INSTALLING FIRE HYDRANTS, SHOULD GROUND WATER BE ENCOUNTERED WITHIN SEVEN (7) FEET OF THE FINISHED GRADE, FIRE HYDRANT WEEP HOLES (DRAINS) SHALL BE PLUGGED.
- THE WATER MAIN PIPELINE AND APPURTENANCES 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.

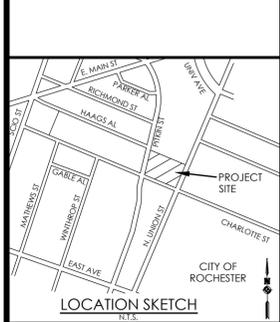
ELECTRIC & GAS SERVICE COORDINATION NOTES:

1. ELECTRIC AND PLUMBING CONTRACTORS SHALL COORDINATE WITH EACH OTHER AND DIRECTLY WITH ROCHESTER GAS & ELECTRIC (RG&E) ELECTRIC AND GAS DEPARTMENTS FOR METER AND SERVICE LOCATIONS PRIOR TO INSTALLATION.
2. ELECTRIC AND PLUMBING CONTRACTORS SHALL ALLOW FOR THE NECESSARY PROVISIONS WHEN INSTALLING METERS AND SERVICES IN ACCORDANCE WITH RG&E DESIGN AND INSTALLATION GUIDELINES.
3. ELECTRIC AND PLUMBING CONTRACTORS SHALL DIRECTLY COORDINATE WITH EACH OTHER AND DIRECTLY WITH RG&E FOR ELECTRIC AND GAS START-UP.



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- C 102 SITE PLAN
- C 103 UTILITY PLAN
- C 104 GRADING & EROSION CONTROL PLAN
- C 105 LANDSCAPE AND LIGHTING
- C 201 DETAILS
- C 202 DETAILS
- C 203 DETAILS
- C 204 DETAILS



Client:

Home Leasing
180 Clinton Square
Rochester, NY 14604

PASSERO ASSOCIATES

242 West Main Street Suite 100
Rochester, New York 14614 (585) 325-1000
Fax: (585) 325-1691

Principal-in-Charge: John F. Caruso, P.E.
Project Manager: Jess Sudol, P.E.
Designed by: Tim Harris, P.E.



Revisions

No.	Date	By	Description
1			

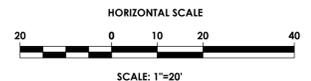
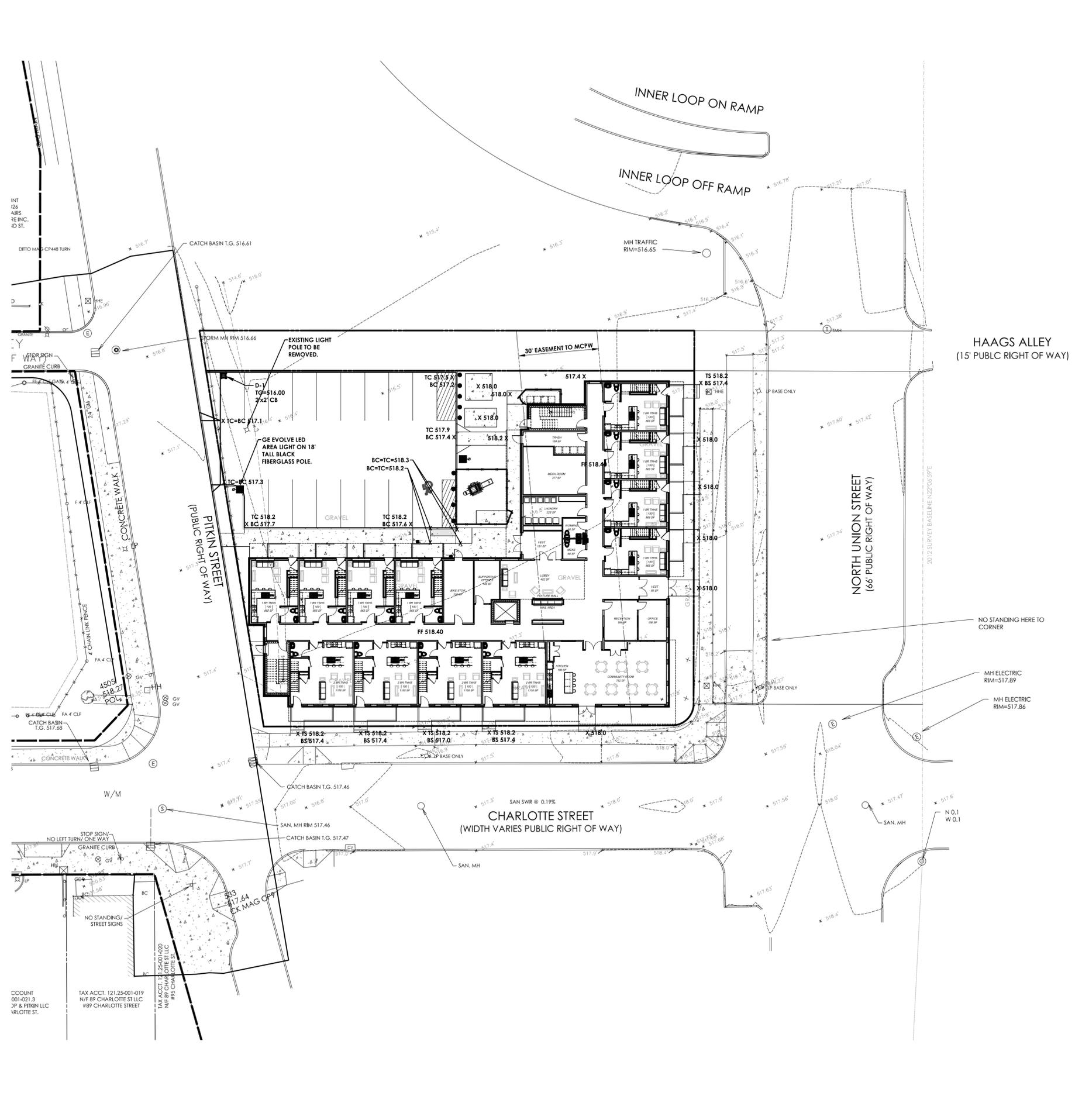
UTILITY PLAN

CHARLOTTE SQUARE PHASE III

County: Monroe	City: Rochester	State: New York
Project No:	20141995.0006	
Drawing No.	C 103	Sheet No. 3
Scale:	1" = 20'	
Date:	NOVEMBER 2016	

CCOUNT
001-021.3
JP & PITKIN LLC
VROLETTE ST.

TAX ACCT. 121 25-001-019
N/F 89 CHARLOTTE ST LLC
#89 CHARLOTTE STREET



LEGEND:

- PROPERTY BOUNDARY
- R.O.W.
- EXISTING CENTER LINE ROAD
- EXISTING BUILDING
- EXISTING FENCE
- EXISTING EASEMENT LINE
- PROPOSED EASEMENT LINE
- PROPOSED BUILDING
- PROPOSED CONCRETE
- PROPOSED SIGN
- PROPOSED LIGHT
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- SILT FENCE
- PROPOSED STORM SEWER, INLET
- MH, CB & END SECTION
- EXISTING STORM SEWER & MH
- PROPOSED WATER SERVICE W/ HYDRANT & VALVE
- HYD
- EXISTING WATER SERVICE & VALVE
- PROPOSED SANITARY SEWER AND MANHOLE
- EXISTING SANITARY SEWER AND MANHOLE
- EXISTING ELECTRIC LINE & POLE
- EXIST. LIGHT POLE
- MH
- EXIST. ELECTRIC MANHOLE
- EXIST. ELECTRIC HANDHOLE
- EXIST. GAS VALVE
- PROPOSED STONE CHECK DAM
- SF
- SILT FENCE



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GRADING NOTES:

1. THE CONTRACTOR SHALL STRIP THE TOPSOIL AND REMOVE ANY UNSUITABLE SOILS, WITHIN THE PROPOSED GRADING LIMITS PRIOR TO PLACEMENT OF FILL MATERIAL.
2. ALL FILL AREAS SHALL BE COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DENSITY OF STANDARD PROCTOR TEST AT OPTIMUM MOISTURE CONTENT.
3. THE COMPACTION TESTS WILL BE CONDUCTED BY A LICENSED TESTING LABORATORY AND RESULTS SUBMITTED TO DESIGN ENGINEER.
4. SLOPES SHALL NOT EXCEED 1' VERTICAL TO 3' HORIZONTAL.
5. CONTRACTOR SHALL TAKE ALL REASONABLE MEASURES TO PROTECT EXISTING TREES WHICH ARE TO BE PRESERVED FROM ALL POSSIBLE TYPES OF ROOT, TRUNK AND LIMB DAMAGE, INCLUDING BUT NOT LIMITED TO, RETAINING WALLS WHICH PREVENT FILLING ON TOP OF ROOTS OR EXCAVATING TREE ROOTS.

CONSTRUCTION SEQUENCE FOR GRADING AND EROSION CONTROL:

1. ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO SITE DISTURBANCE.
2. INSTALL STABILIZED CONSTRUCTION ENTRANCE.
3. INSTALL PERIMETER SILT FENCING AND ORANGE CONSTRUCTION FENCING.
4. GRADE IMPROVEMENTS AREAS WITHIN THE PROJECT SITE. AREAS WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR MORE THAN 7 DAYS WILL BE STABILIZED WITH A TEMPORARY SEED AND MULCH WITHIN 7 DAYS OF THE LAST DISTURBANCE.
5. CONSTRUCT DROP INLET PROTECTION DEVICES AFTER STORM STRUCTURE INSTALLATION AS SHOWN ON THIS PLAN.
6. REPLACE TOPSOIL AND FINE GRADE.
7. HYDRO-SEED ALL DISTURBED AREAS WITHIN 7 DAYS AFTER FINAL GRADING. CONTRACTOR IS RESPONSIBLE TO RESEED IF GRADING IS UNSATISFACTORY.
8. UPON APPROVAL OF THE CITY, REMOVE ALL TEMPORARY SILTATION CONTROLS.
9. SLOPES SHALL NOT EXCEED 1' VERTICAL TO 3' HORIZONTAL MAX. MAINTAIN 1:4 WHERE POSSIBLE.
10. MINIMUM OF 6" OF TOPSOIL IS TO BE PLACED ON ALL GRASS AREAS.
11. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BASED UPON ACTUAL FIELD CONDITIONS ABOVE. CONTRACTOR SHALL PROVIDE FOR THIS COST IN HIS CONTRACT.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SILTATION AND EROSION CONTROL MEASURES FROM INSTALLATION THROUGH MAINTENANCE AND REMOVAL AFTER RE-VEGETATION HAS BEEN ESTABLISHED.
13. ALL END SECTIONS WILL BE PROVIDED WITH RIP-RAP APRONS.
14. ALL EROSION AND SEDIMENT CONTROL METHODS WILL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL.
15. THE CONTRACTOR SHALL DESIGNATE A MEMBER OF HIS OR HER FIRM TO BE RESPONSIBLE TO MONITOR EROSION CONTROL, EROSION CONTROL STRUCTURES, TREE PROTECTION AND PRESERVATION THROUGHOUT CONSTRUCTION.

COMPACTION NOTES

1. THE CONTRACTOR SHALL STRIP THE TOPSOIL AND REMOVE ANY UNSUITABLE SOILS, WITHIN THE PROPOSED GRADING LIMITS PRIOR TO PLACEMENT OF FILL MATERIAL.
2. ALL FILL AREAS SHALL BE COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DENSITY OF STANDARD PROCTOR TEST AT OPTIMUM MOISTURE CONTENT.
3. THE COMPACTION TESTS WILL BE CONDUCTED BY A LICENSED TESTING LABORATORY AND RESULTS SUBMITTED TO DESIGN ENGINEER.

GENERAL NOTES:

1. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE DESIGNED, INSTALLED AND MAINTAINED PER THE REQUIREMENTS SET FORTH IN THE LATEST EDITION OF THE NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL.
2. ALL THE IMPROVEMENTS SHALL BE CONSTRUCTED ACCORDING TO THE SPECIFICATION OF THE TOWN OF Brighton.
3. ALL SITE WORK IS TO BE IN COMPLIANCE WITH THE STANDARDS OF THE TOWN
4. THE DEVELOPER WILL COMPLY WITH ALL REQUIREMENTS OF THE STATE, COUNTY AND TOWN AGENCY.
5. ANY AND ALL COSTS RELATED TO THE RELOCATION OF UTILITIES NECESSITATED BY THIS PROJECT SHALL BE BORNE BY THE INDIVIDUAL AND/OR THE UTILITY COMPANY REQUESTING THE RELOCATION.
6. ALL MASS EARTHWORK SHALL BE COMPLETE PRIOR TO UTILITY INSTALLATION.
7. ALL FILL SHALL BE COMPACTED TO 95% OF ORIGINAL DENSITY PER MODIFIED PROCTOR TEST. THIS SHALL BE CERTIFIED TO ENGINEER IN ALL AREAS OF FILL BY A LICENSED TESTING COMPANY.
8. FILL MATERIAL SHALL BE CAPABLE OF 3000 #/SF COMPACTION DENSITY. SELECT FILL CAN BE USED AS 304.02, 304.03, 304.05.
9. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED PER THE NYSDEC SPECIFICATIONS FOR DESIGN AND EROSION AND SEDIMENT CONTROL.

Revisions			
No.	Date	By	Description
1			

GRADING & EROSION CONTROL PLAN

CHARLOTTE SQUARE PHASE III

County: Monroe City: Rochester State: New York

Project No. 20141995.0006

Drawing No. C 104 Sheet No. 4

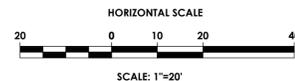
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Date: NOVEMBER 2016

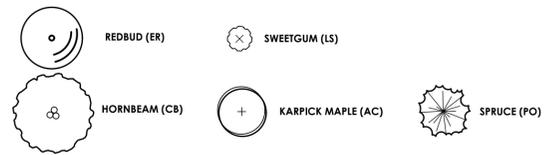
CCOUNT
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 JP & PITKIN LLC
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TAX ACCT. 121-25-001-019
 NJF 89 CHARLOTTE ST LLC
 #89 CHARLOTTE STREET

TAX ACCT. 121-25-001-020
 NJF 89 CHARLOTTE ST LLC
 #89 CHARLOTTE ST

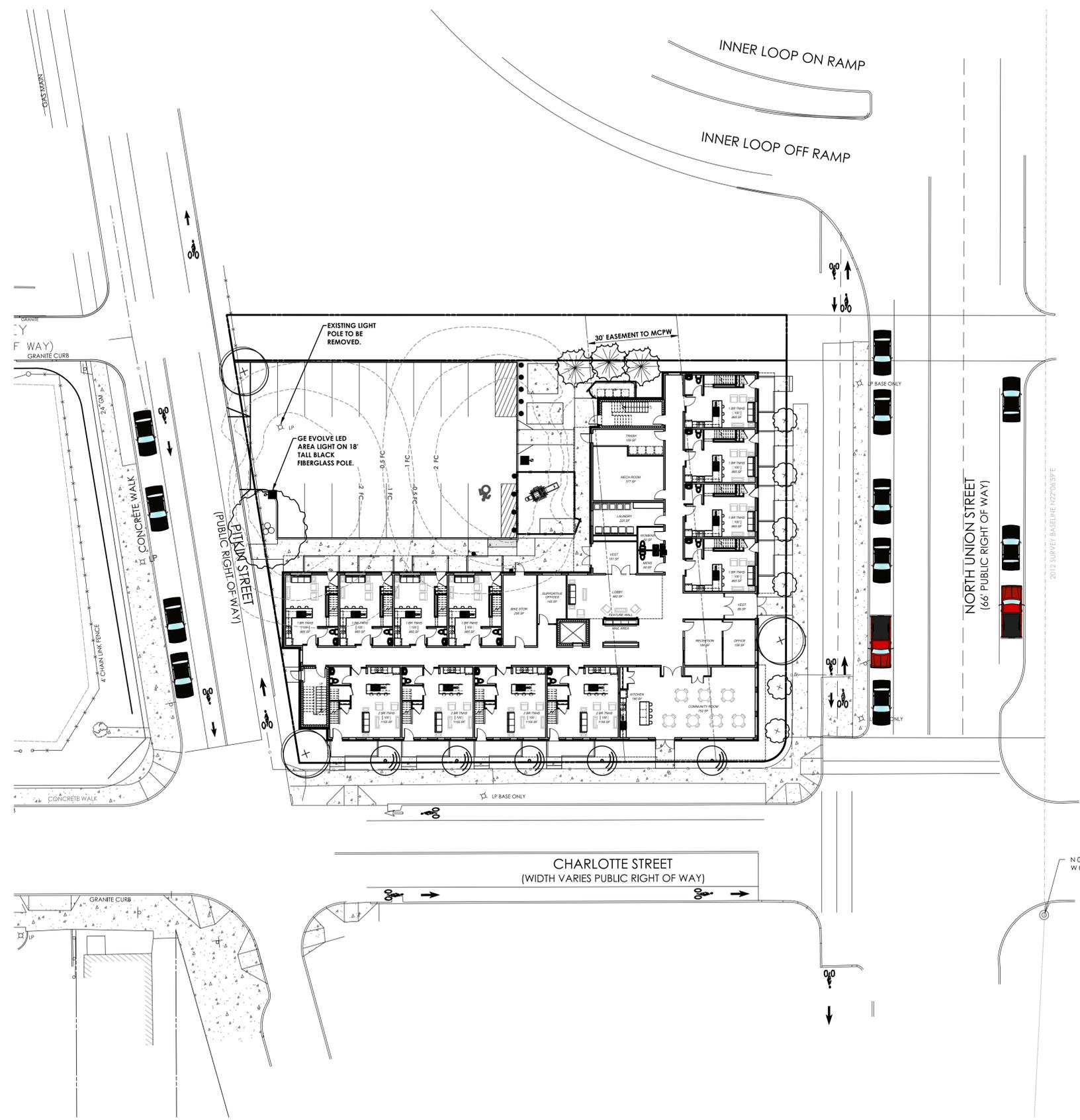


PLANT SYMBOLS



PLANT SCHEDULE

KEY	QTY	COMMON NAME	BOTANICAL NAME	SIZE	MATURE HEIGHT	SPACING	COMMENTS
DECIDUOUS TREES							
AC	2	KARPICK RED MAPLE	ACER RUBRUM 'KARPICK'	2 1/2" CAL. B&B	45'	AS SHOWN	15'-20' SP.
CB	6	HORNBEAM	CARPINUS BETULUS 'FASTIGIATA'	2 1/2" CAL. B&B	30-40'	AS SHOWN	20-30' SP.
LS	5	AMERICAN SWEETGUM	LIQUIDAMBAR STYRACIFLUA	2.5" CAL. B&B	35-50'	AS SHOWN	8' SP.
EVERGREEN TREES							
PO	4	SERBIAN SPRUCE	PICEA OMORIKA	6' HT. B&B	40-60'	AS SHOWN	15-20' SP.
FLOWERING AND ORNAMENTAL TREES							
ER	4	EASTERN REDBUD	CERCIS CANADENSIS 'APPALACHIAN RED'	2 1/2"-3" CAL. B&B	15-25'	AS SHOWN	15-25' SP.



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Revisions

No.	Date	By	Description
1			

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LIGHTING AND LANDSCAPE PLAN

CHARLOTTE SQUARE PHASE III

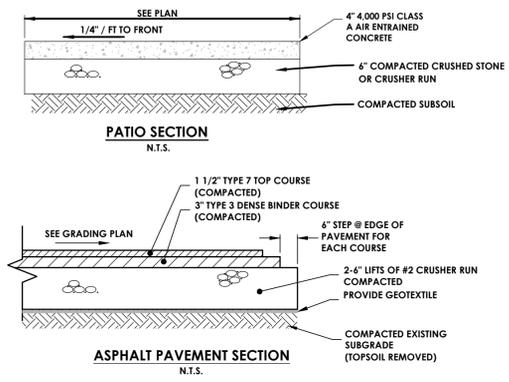
City: Rochester
County: Monroe
State: New York

Project No:
20141995.0006

Drawing No. C 105	Sheet No. 5
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Scale: **1" = 20'**

Date:
NOVEMBER 2016



EROSION CONTROL NOTES:

- 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.
- 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.
- 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 SEED AS SOON AS POSSIBLE AFTER COMPLETION OF WORK.
- 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 SEED/MULCHED WITHIN 7 DAYS.
- 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.
- THE PAVEMENT SUBBASE MATERIAL SHALL BE PLACED AND COMPACTED TO 95% MAXIMUM DENSITY. 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 SITUATION CONTROLS WILL BE INSPECTED AFTER A STORM EVENT AND REQUIRED REPAIRS WILL BE MADE IMMEDIATELY.
- 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 UPPO HOTLINE AT 1-800-762-7922 FOR STAKE-OUT OF EXISTING UTILITIES.
- CRUSHED STONE PAD SHALL BE INSTALLED AT CONSTRUCTION ENTRANCE TO PROVIDE A STABILIZED ENTRANCE POINT.
- ANY SILT OR SEDIMENT ACCUMULATED IN EXISTING SWALES, STORM SEWERS, STREET AND/OR GUTTERS SHALL BE CLEANED OUT DURING CONSTRUCTION.
- DISTURBED AREAS SHALL BE STABILIZED, AND SLOPES GREATER THAN 10% SEED IMMEDIATELY UPON COMPLETION OF GRADING AND CONSTRUCTION. DISTURBED AREAS SHALL BE SEED IMMEDIATELY UPON COMPLETION WITH FOLLOWING MIXTURES:

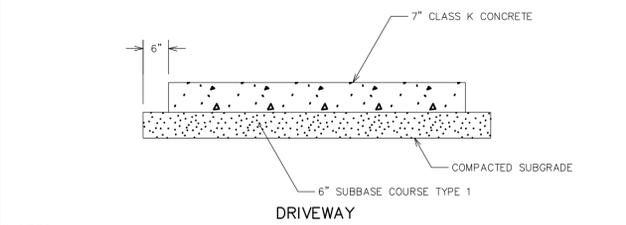
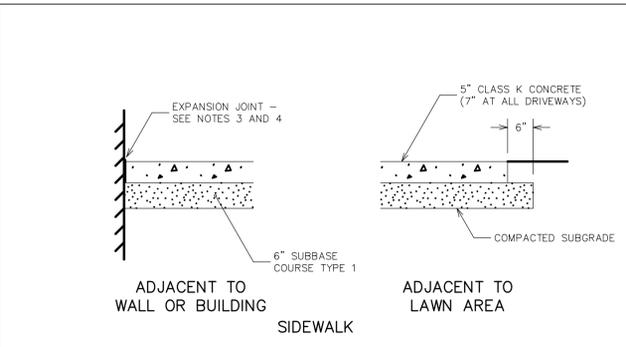
	% Germ	% By Purity	% By Weight
Pennfne Perennial Rye Grass	85	85	35
Pennlwnred Fescue	80	97	35
Common Kentucky Bluegrass	80	85	30

PUBLIC WATER SYSTEM NOTES:

- WATER MAINS AND APPURTENANCES TO BE CONSTRUCTED IN ACCORDANCE WITH THE REGULATIONS AND SPECIFICATIONS OF THE ROCHESTER WATER BUREAU.
- MATERIAL:**
- WATER MAIN(S) SHALL BE 4" OR 6" DUCTILE IRON CEMENT LINED CLASS 52.
 - WATER SERVICE(S) SHALL BE 1" OR 2" TYPE K COPPER FROM THE WATER MAIN TO THE METER.
 - WATER METER(S) SHALL BE LOCATED ON THE INTERIOR OF EXTERIOR WALLS IMMEDIATELY UPON SERVICE ENTRANCE INTO THE BUILDING(S). ON METERS SERVICES REQUIRING A 4" OR LARGER METER A BYPASS AROUND THE METER IS REQUIRED.
 - ALL GATE VALVES SHALL HAVE STAINLESS STEEL BODY AND BONNET BOLTS AND SHALL BE OPEN RIGHT.
 - POLYETHYLENE ENCASMENT IS REQUIRED ON ALL DIP PIPE.
 - PRESSURE TESTS, WATER MAINS TO BE PRESSURE TESTED IN ACCORDANCE WITH THE LATEST WATER BUREAU SPECIFICATIONS. A ROCHESTER WATER BUREAU REPRESENTATIVE MUST WITNESS THIS TEST.
 - HEALTH SAMPLE THE WATER MAIN SHALL BE DISINFECTED EQUAL TO AWWA STANDARD SPECIFICATIONS, DESIGNATION C-651, BY USING THE CONTINUOUS FEED METHOD. AFTER FLUSHING AND DISINFECTING THE WATER MAIN, WATER SAMPLES SHALL BE COLLECTED FROM THE MAIN BY THE MONROE COUNTY HEALTH DEPARTMENT. FIRE HYDRANTS ARE NOT ACCEPTABLE SAMPLING POINTS. APPROVAL AND NOTIFICATION BY THE HEALTH DEPARTMENT MUST BE RECEIVED BEFORE THE MAIN IS PLACED IN SERVICE.
- INSTALLATION:**
- WATER MAINS AND ALL WATER SERVICE LINES SHALL HAVE A MINIMUM OF FIVE FEET OF COVER FROM THE FINISHED GRADE.
 - MINIMUM VERTICAL SEPARATION BETWEEN SEWER MAIN AND WATER MAIN SHALL BE 18" MEASURED FROM THE OUTSIDE OF THE PIPES AT THE POINT OF CROSSING. MINIMUM HORIZONTAL SEPARATION BETWEEN WATER MAINS AND SEWER MAINS SHALL BE TEN FEET MEASURED FROM THE OUTSIDE OF THE PIPES. ONE FULL LENGTH OF WATER MAIN SHALL BE CENTERED UNDER OR OVER THE SEWER AS POSSIBLE. WHERE A WATER MAIN CROSSES UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT (COMPACTED SELECTED FILL) SHALL BE PROVIDED FOR THE SEWERS TO PREVENT EXCESSIVE DEFLECTION OF JOINTS AND SETTLING ON AND BREAKING WATER MAINS.
 - FIRE HYDRANT WEEP HOLES (DRAINS) SHALL BE PLUGGED WHEN GROUND WATER IS ENCOUNTERED WITHIN SEVEN FEET OF FINISHED GRADE.
 - ALL MECHANICAL JOINT FITTINGS (TEES, BENDS, PLUGS, ETC) SHALL BE BACKED WITH 2500 PSI CONCRETE THRUST BLOCKS.

WATERMAIN BEDDING NOTES:

- LIMITS SHOWN ARE MAXIMUM ALLOWED AND MINIMUM REQUIRED FOR EXCAVATION AND BACKFILL.
- UPPER LIMIT FOR TRENCH EXCAVATION IS TOP OF EXISTING SURFACE AT TIME OF TRENCH EXCAVATION.
- UPPER LIMIT FOR ROCK EXCAVATION IS TOP SURFACE OF ROCK.
- UPPER LIMIT FOR SELECT GRANULAR BACKFILL (WATER) IS BOTTOM OF TEMPORARY PAVEMENT IF USED OTHERWISE TOP OF SURFACE.
- TEMPORARY OR PERMANENT BLOCKS OR ANY OTHER TYPE OF PIPE SUPPORT IS NOT TO BE USED DURING PIPE INSTALLATION.
- MINIMUM DEPTH OF COVER FOR WATER PIPE FROM PROPOSED GRADE IS 4 FEET IN INCHES FOR DIP AND COPPER WATER PIPE, 5 FEET FOR HOLLY WATER MAIN AND POLYETHYLENE WATER PIPE.



NOTES:

- MAXIMUM CROSS-SLOPE OF CONCRETE SIDEWALK IS 1:50.
- ENTIRE AREA OF SIDEWALK ACCESS RAMP AND LANDING PAD IS TO BE 7 INCH THICK CONCRETE.
- 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/APURTENANCES.
- FOR EXPANSION JOINT USE INCH WIDE PREMOULDED EXPANSION JOINT MATERIAL, SEALED WITH INCH WIDE CAULKING SEALANT 1/4 INCH DEEP.
- SEE DETAILS S608-25 FOR HEAVY-DUTY COMMERCIAL DRIVEWAY PAVEMENT SECTION.

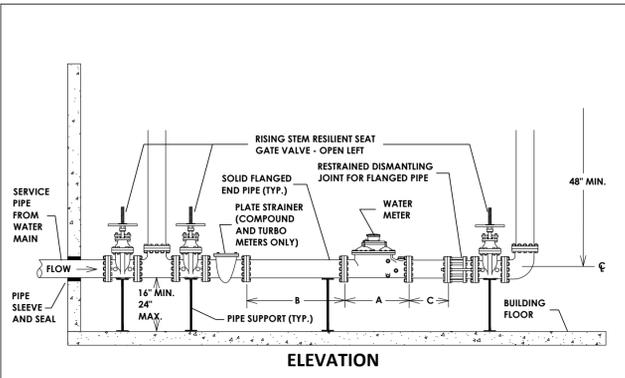
CITY OF ROCHESTER
CONCRETE SIDEWALK AND DRIVEWAY
 ISSUED 9-2-91 STANDARD
 REVISED 5-1-13 DWG.NO.R608-6

MCPW-ROCHESTER PURE WATERS DISTRICT SEWER NOTES:

- THIS PLAN REQUIRES APPROVAL AND ISSUANCE OF A PLUMBING PERMIT FROM THE CITY OF ROCHESTER PLUMBING DEPARTMENT.
- PRIOR TO CONSTRUCTION, A SEWER CONNECTION PERMIT MUST BE OBTAINED FROM THE MONROE COUNTY PURE WATERS (MCPW) PERMIT OFFICE AT 444 EAST HENRIETTA ROAD, BUILDING 15, ROCHESTER, NEW YORK 14620-4643, PHONE # 753-7600 (OPT. 5).
- SEWER CONNECTION PERMIT(S) CAN ONLY BE ISSUED TO A PLUMBER LICENSED IN THE CITY OF ROCHESTER AND WHO IS FULLY INSURED AND BONDED IN THE ROCHESTER WATERS DISTRICT (RPWD). PAYMENT (CHECK OR MONEY ORDER TO "RPWD") OF ALL APPLICABLE PERMIT FEES MUST BE PAID PRIOR TO PERMIT ISSUANCE.
- THE RPWD SHALL BE NOTIFIED FORTY-EIGHT HOURS IN ADVANCE OF A CONNECTION OR TAP. (753-7600 (OPT. 5)). THE CONTRACTOR SHALL MAKE ALL REQUIRED TAPS TO THE RPWD SEWERS. ALL TAPS AND CONNECTIONS TO DISTRICT UTILITIES MUST BE WITNESSED BY A DISTRICT INSPECTOR.
- SANITARY/STORM/COMBINATION SEWER LATERALS(S) AND APPURTENANCES SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE REQUIREMENTS OF THE ROCHESTER PURE WATERS DISTRICT.
- CLEANOUTS SHALL BE INSTALLED ON ALL 4" AND 6" DIAMETER SEWER LATERALS AT THE RIGHT-OF-WAY (ROW) LINE, OR THE SEWER EASEMENT LINE WHERE APPLICABLE. (THE SEWER EASEMENT, RIGHT-OF-WAY AND/OR PROPERTY LINE MUST BE STAKED OUT PRIOR TO INSTALLATION OF LOT LINE CLEANOUTS TO ENSURE PROPER LOCATION OF THE CLEANOUTS. [REFER TO CLEANOUT DETAIL FOR PROPER INSTALLATION].
- IF AN EXISTING LATERAL IS TO BE UTILIZED, THE PLUMBER/CONTRACTOR MUST ENSURE THAT THE LATERAL IS IN GOOD CONDITION AND IS FREE OF DEBRIS (DIRT, MUD, STONE, ROOTS, ETC.) VIA A VIDEO TAPED INSPECTION PERFORMED BY THE PLUMBER/CONTRACTOR OR HIS/HER/ THEIR AGENT. PRIOR TO CONNECTION, THE VIDEO TAPED INSPECTION OF THE EXISTING LATERAL MUST BE PRESENTED TO THE DISTRICT FOR REVIEW AND APPROVAL TO UTILIZE AN EXISTING LATERAL. IT IS THE RESPONSIBILITY OF THE BUILDER OR THEIR AGENT TO CLEAN AND/OR REPLACE THE PIPE/LATERAL AS NEEDED.
- ANY NEW PORTION OF A SEWER LATERAL INSTALLED WITHIN THE PUBLIC RIGHT-OF-WAY AND SEWER EASEMENT MUST BE SDR-21 PVC.
- ANY EXISTING LATERALS NOT UTILIZED MUST BE ABANDONED TO MONROE COUNTY PURE WATERS (MCPW) STANDARDS AT THE PROPERTY LINE OR, WHERE APPLICABLE, THE SEWER EASEMENT LINE.
- FLOOR DRAINS IF CONSTRUCTED, SHALL BE CONNECTED TO THE SANITARY/COMBINATION SEWER. FLOOR DRAINS DO NOT INCLUDE FOUNDATION/FOOTER DRAINS. NOTE: ALL DISCHARGES TO THE SANITARY/COMBINATION SEWER MUST COMPLY WITH THE EFFLUENT LIMITS OF THE LOCAL AND/OR MONROE COUNTY SEWER USE LAW.
- ANY PORTION OF A SEWER LATERAL WITH LESS THAN FOUR-FEET (4') OF COVER WILL REQUIRE CONCRETE ENCASMENT. SEWERS/LATERALS WITH LESS THAN THREE-FEET (3') OF COVER ARE NOT ALLOWED.
- THE REQUIREMENTS OF THE HIGHWAY/PROPERTY OWNER SHALL BE ADHERED TO FOR ITEMS ABOVE THE PIPE BEDDING, INCLUDING, BUT NOT LIMITED TO, MAINTENANCE AND PROTECTION OF TRAFFIC, BACKFILL MATERIAL AND SURFACE RESTORATION.

MONROE COUNTY DEPARTMENT OF HEALTH:

- THE WATER MAIN PIPELINE SHALL BE DISINFECTED EQUAL TO AWWA STANDARD FOR DISINFECTING WATER MAINS DESIGNATION C-651 (LATEST REVISION). FOLLOWING DISINFECTION, THE WATER MAIN PIPELINE SHALL BE FLUSHED UNTIL THE CHLORINE CONCENTRATION IN THE WATER LEAVING THE MAIN IS NO HIGHER THAN THAT GENERALLY PREVAILING IN THE SYSTEM. ALL WATER MAIN PIPE FITTINGS NOT RECEIVING 24-HOUR CHLORINE DISINFECTION CONTACT TIME MUST BE SWAB-DISINFECTED 30 MINUTES PRIOR TO INSTALLATION. THE SAMPLING POINT(S) MUST BE DECONTAMINATED BY FLAMING. FIRE HYDRANTS ARE NOT ACCEPTABLE SAMPLING POINTS.
- THE MONROE COUNTY DEPARTMENT OF PUBLIC HEALTH MUST RECEIVE AT LEAST 48-HOUR ADVANCE NOTIFICATION REQUESTING SAMPLING SERVICES. 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 UNDER SECTION 7208(N) OF THE EDUCATION 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 PIPE AND APPURTENANCES SHALL NOT BE PLACED INTO SERVICE UNTIL SO AUTHORIZED BY THE MONROE COUNTY DEPARTMENT OF PUBLIC HEALTH.
- MINIMUM VERTICAL SEPARATION BETWEEN WATER MAIN PIPELINES AND SEWER PIPELINES SHALL BE 18 INCHES MEASURED FROM THE OUTSIDE OF THE PIPES AT THE POINT OF CROSSING. ONE FULL STANDARD LAYING LENGTH OF WATER MAIN PIPE 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 PIPELINE 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. MINIMUM HORIZONTAL SEPARATION BETWEEN PARALLEL WATER MAIN PIPES AND SEWER PIPES (INCLUDING MANHOLES AND VAULTS) SHALL BE 10 FEET MEASURED FROM THE OUTSIDE OF THE PIPES, MANHOLES OR VAULTS.
- WHEN INSTALLING FIRE HYDRANTS, SHOULD GROUND WATER BE ENCOUNTERED WITHIN SEVEN (7) FEET OF THE FINISHED GRADE, FIRE HYDRANT WEEP HOLES (DRAINS) SHALL BE PLUGGED.
- THE WATER MAIN PIPELINE AND APPURTENANCES 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.



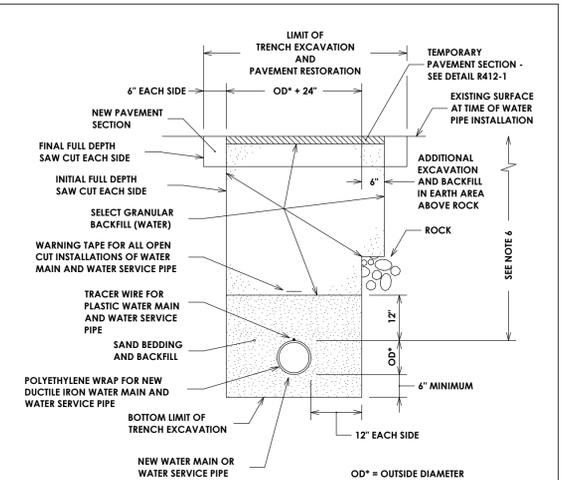
DIMENSIONS AND CLEARANCES

WATER METER TYPE	WATER METER SIZE (INCHES)	LENGTH WATER METER "A" (INCHES)	MINIMUM DIMENSIONS		
			MINIMUM LENGTH STRAIGHT PIPE "B" (INCHES)	MINIMUM LENGTH STRAIGHT PIPE "C" (INCHES)	MINIMUM CLEARANCE PIPE TO WALL (INCHES)
COMPOUND	3"	17"	20"	18"	24"
	4"	20"	20"	18"	24"
	6"	24"	30"	18"	24"
TURBO	6"	18"	30"	18"	24"
	8"	20"	40"	18"	24"
	10"	26"	50"	24"	30"
FIRE SERIES ASSEMBLY	6"	45**	24"	18"	36"
	8"	53**	24"	18"	36"
	10"	68**	24"	24"	42"

NOTES:

- IF WATER METER SIZE IS SMALLER THAN SIZE OF WATER SERVICE, PROVIDE ADEQUATE CLEARANCE FOR FUTURE INSTALLATION OF FULL SIZED METER.
- A BACKFLOW PREVENTION DEVICE IS REQUIRED ON ALL DOMESTIC WATER SERVICES 1 1/2" AND LARGER.
- PIPE AND APPURTENANCES ARE TO BE ADEQUATELY RESTRAINED, BRACED AND SUPPORTED. ALL WORK AND MATERIALS SHALL BE IN CONFORMANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL PLUMBING CODES.

CITY OF ROCHESTER
TYPICAL INDOOR INSTALLATION OF DOMESTIC WATER METER 3 INCH TO 10 INCH
 ISSUED 8-8-11 NON-STANDARD
 REVISED DWG.NO.S970-6



NOTES:

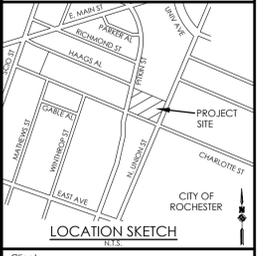
- LIMITS SHOWN ARE MAXIMUM ALLOWED AND MINIMUM REQUIRED FOR EXCAVATION AND BACKFILL.
- UPPER LIMIT FOR TRENCH EXCAVATION IS TOP OF EXISTING SURFACE AT TIME OF TRENCH EXCAVATION.
- UPPER LIMIT FOR ROCK EXCAVATION IS TOP SURFACE OF ROCK.
- UPPER LIMIT FOR SELECT GRANULAR BACKFILL (WATER) IS BOTTOM OF TEMPORARY PAVEMENT, IF USED, OTHERWISE TOP OF SURFACE.
- TEMPORARY OR PERMANENT BLOCKS OR ANY OTHER TYPE OF PIPE SUPPORT IS NOT TO BE USED DURING PIPE INSTALLATION.
- 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

PA
PASSERO ASSOCIATES
 engineering architecture

DRAWING INDEX

- C 101 COVER
- C 102 SITE PLAN
- C 103 UTILITY PLAN
- C 104 GRADING & EROSION CONTROL PLAN
- C 105 LANDSCAPE AND LIGHTING
- C 201 DETAILS
- C 202 DETAILS
- C 203 DETAILS
- C 204 DETAILS



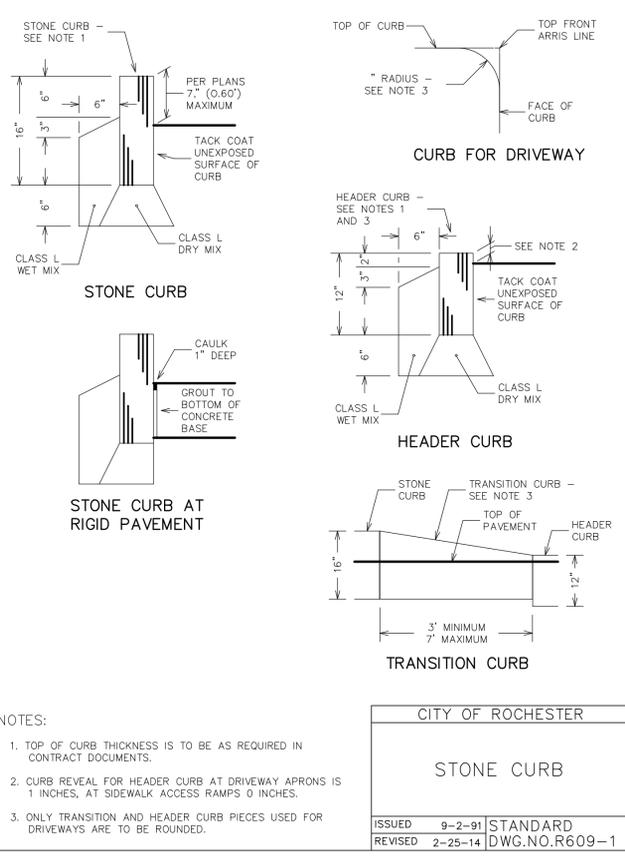
Home Leasing
 180 Clinton Square
 Rochester, NY 14604

PASSERO ASSOCIATES
 342 West Main Street Suite 100 Rochester, New York 14614
 (585) 325-1000 Fax: (585) 325-1691
 Principal-in-Charge: John F. Caruso, P.E.
 Project Manager: Jess Sudol, P.E.
 Designed by: Tim Harris, P.E.

Revisions

No.	Date	By	Description
1			

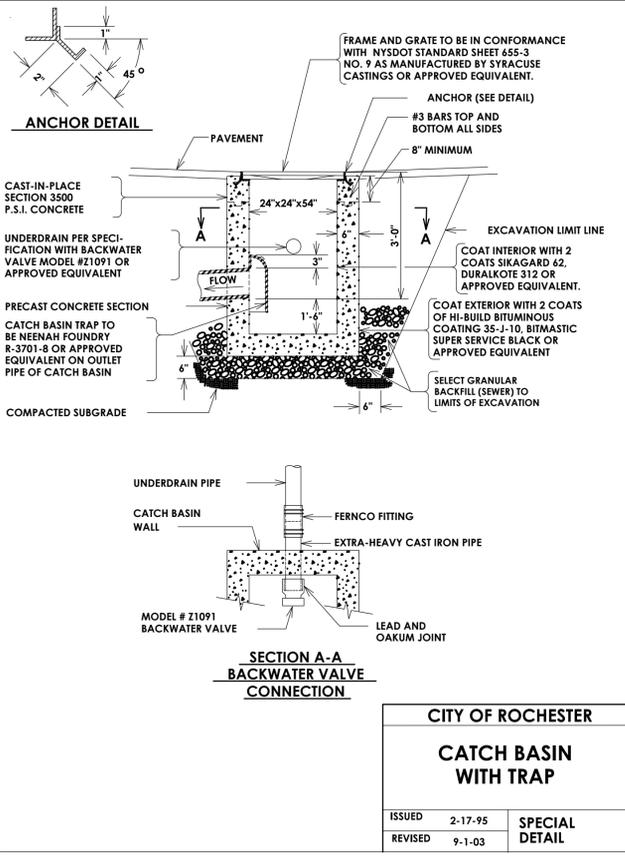
DETAILS
CHARLOTTE SQUARE PHASE III
 City: Rochester State: New York
 County: Monroe
 Project No. 20141995.0006
 Drawing No. C 201 Sheet No. 6
 Scale: N.T.S.
 Date: NOVEMBER 2016



NOTES:

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

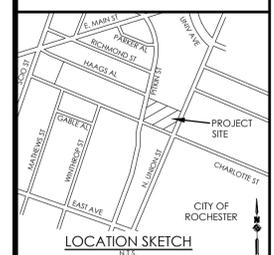
CITY OF ROCHESTER
STONE CURB
 ISSUED 9-2-91 STANDARD
 REVISED 2-25-14 DWG.NO.R609-1



CITY OF ROCHESTER
CATCH BASIN WITH TRAP
 SPECIAL DETAIL
 ISSUED 2-17-95
 REVISED 9-1-03

DRAWING INDEX

- C 101 COVER
- C 102 SITE PLAN
- C 103 UTILITY PLAN
- C 104 GRADING & EROSION CONTROL PLAN
- C 105 LANDSCAPE AND LIGHTING
- C 201 DETAILS
- C 202 DETAILS
- C 203 DETAILS
- C 204 DETAILS



Client:
Home Leasing
180 Clinton Square
Rochester, NY 14604

Revisions

No.	Date	By	Description
1			

DETAILS

**CHARLOTTE SQUARE
PHASE III**

City: Rochester
County: Monroe
State: New York

Project No.
20141995.0006

Drawing No. **C 202** Sheet No. **7**

Scale: **N.T.S.**

Date
NOVEMBER 2016

**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: _____

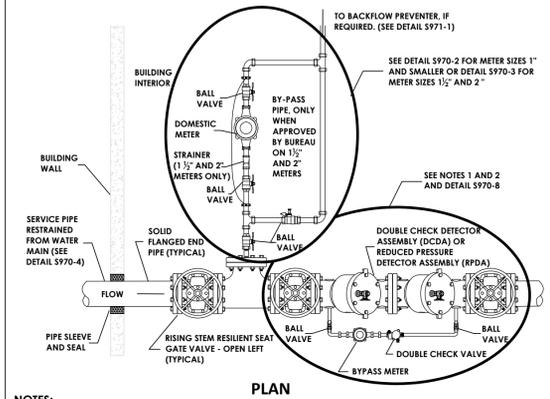
MEASURED FROM ROW OF NEAREST INTERSECTING STREET OR HYDRANT, WHICHEVER IS CLOSER OCT. 2013

NOTES:

- WATER SERVICE CARD WILL BE SUPPLIED BY WATER BUREAU. REQUIRED INFORMATION IS TO BE TYPED OR NEATLY PRINTED ON WATER SERVICE CARD.
- 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.
- 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.
- 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 PERMANENT FEATURE, PRE-APPROVED BY THE WATER BUREAU, SHALL BE USED FOR THE CURB STOP MEASUREMENT.
- MEASUREMENTS ARE TO BE ENTERED IN TENTHS OF FEET. DO NOT USE INCHES. ROUNDING TO THE NEAREST 0.5 FEET IS ACCEPTABLE.
- IF SERVICE IS INSTALLED WITH HORIZONTAL BEND, DRAW A SKETCH ON THE BACK OF THE CARD SHOWING THE LOCATION 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

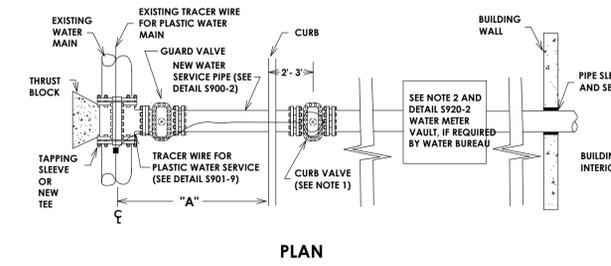


NOTES:

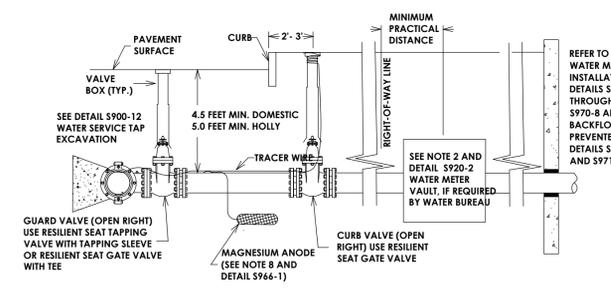
- FOR CLASS 1, 2 AND 3 FIRE SYSTEMS, FURNISH WITH DOUBLE CHECK DETECTOR ASSEMBLY (DCDA) PER DETAIL S970-8.
- FOR CLASS 4 AND 5 FIRE SYSTEMS OR WHEN SERVICE IS LOCATED WITHIN 1,700 FEET OF HOLLY SYSTEM OR RIVER, FURNISH WITH REDUCED PRESSURE DETECTOR ASSEMBLY (RPDA).
- GATE VALVES SHALL BE OS&Y RISING STEM, RESILIENT SEATED, FLANGED END, OPEN LEFT AND SHALL BE UL/FM APPROVED.
- DCDA AND RPDA SHALL HAVE AN EPOXY COATED CAST OR DUCTILE IRON BODY, FLANGED ENDS, BE UL/FM APPROVED AND APPROVED BY THE FOUNDATION FOR CROSS-CONNECTION CONTROL AND HYDRAULIC RESEARCH AT THE UNIVERSITY OF SOUTHERN CALIFORNIA. DCDA AND RPDA SHALL HAVE TRIM KIT FOR BY-PASS METER AND APPURTENANCES.
- BY-PASS PIPING ON DCDA AND RPDA SHALL BE 3/4 INCH COPPER OR BRASS. BY-PASS FITTINGS AND VALVES SHALL BE BRASS.
- BY-PASS METER COUPLINGS ARE FURNISHED BY THE WATER BUREAU AND INSTALLED BY THE PLUMBER. COUPLINGS ARE AVAILABLE FOR PICK UP AT THE WATER BUREAU OPERATIONS CENTER, 10 FELIX STREET, TELEPHONE 428-7618.
- THE WATER BUREAU WILL FURNISH, INSTALL AND SEAL THE BY-PASS METER, SEAL THE BY-PASS BALL VALVES AND INSTALL A REMOTE TOUCH PAD OR RADIO READING DEVICE.
- PIPE AND APPURTENANCES ARE TO BE ADEQUATELY RESTRAINED, BRACED AND SUPPORTED. ALL WORK AND MATERIALS SHALL BE IN CONFORMANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL PLUMBING CODES.

**CITY OF ROCHESTER
TYPICAL COMBINATION
FIRE AND DOMESTIC
SERVICE**

ISSUED 8-8-11 NON-STANDARD
REVISED 3-8-12 DWG.NO.S970-9



PLAN



ELEVATION

NOTE:

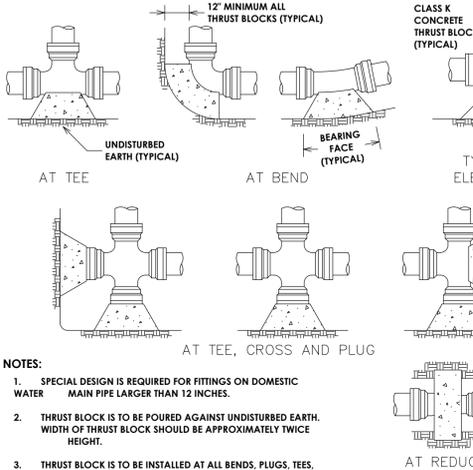
FOR NEW WATER SERVICE NOTES, SEE DETAIL S970-5

**CITY OF ROCHESTER
NEW WATER SERVICE
4 INCH AND LARGER
ON EXISTING
WATER MAIN**

ISSUED 8-8-11 NON-STANDARD
REVISED DWG.NO.S970-4

**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°		
4" - 6"	4	2.5	1.5	3	6" x 4" 2
8"	7	4	2	1	8" x 4" 2.5
12"	14.5	8	4	2	10.5 12" x 8" 5.5



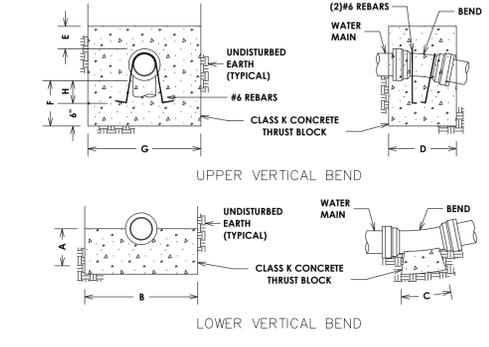
NOTES:

- SPECIAL DESIGN IS REQUIRED FOR FITTINGS ON DOMESTIC WATER MAIN PIPE LARGER THAN 12 INCHES.
- THRUST BLOCK IS TO BE POURED AGAINST UNDISTURBED EARTH. WIDTH OF THRUST BLOCK SHOULD BE APPROXIMATELY TWICE HEIGHT.
- THRUST BLOCK IS TO BE INSTALLED AT ALL BENDS, PLUGS, TEES, AND TAPPING SLEEVE AND VALVE CONNECTIONS.
- FACTORY CAST OFFSETS ARE TO BE TREATED AS (2) 45 DEGREE BENDS.
- FOR REDUCERS, THRUST BLOCK IS TO BE KEED INTO WALLS AND BOTTOM OF TRENCH.
- MECHANICAL RESTRAINT IS REQUIRED IN ADDITION TO THRUST BLOCK. SEE DETAIL S900-7.
- 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:

- SPECIAL DESIGN IS REQUIRED FOR FITTINGS ON DOMESTIC WATER MAIN PIPE LARGER THAN 12 INCHES.
- 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:

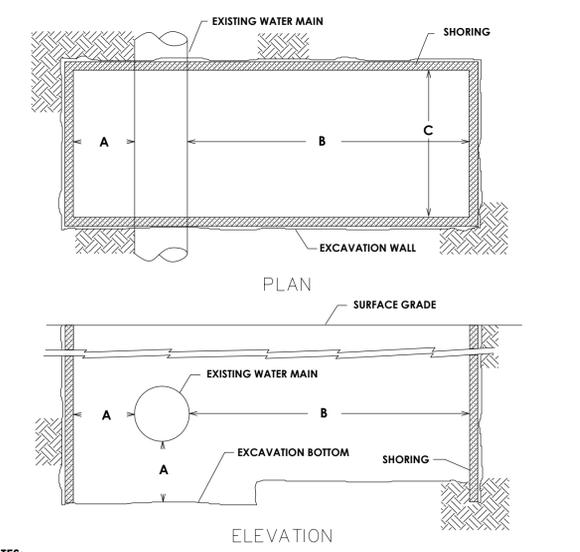
- LOCATION OF SAMPLING TAPS ARE SUBJECT TO PRIOR APPROVAL BY CITY AND MONROE COUNTY DEPARTMENT OF PUBLIC HEALTH.
- IF SAMPLING TAP IS LOCATED IN PAVED AREA, SAMPLING TAP IS TO BE KEPT BELOW GROUND EXCEPT WHEN IN USE.
- IF APPROVED BY CITY, SAMPLING TAP MAY BE LOCATED AT SAME LOCATION AS NEW WATER SERVICE.
- 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.
- 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 7-24-13 DWG.NO.S900-6

NOTES:

- 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. CURB VALVE IS REQUIRED WHEN DIMENSION "A" EXCEEDS 6 FEET.
- A METER VAULT MAY BE REQUIRED FOR A DOMESTIC SERVICE, WHEN THE WATER SERVICE LENGTH, AS MEASURED FROM THE STREET RIGHT-OF-WAY LINE TO THE BUILDING WALL, EXCEEDS 100 FEET. WHEN THE WATER SERVICE LENGTH EXCEEDS 100 FEET, THE WATER BUREAU WILL REVIEW EACH NEW WATER SERVICE PLAN TO DETERMINE IF THE METER SHOULD EITHER BE PLACED: INSIDE OF THE HEATED BUILDING; IN A METER VAULT OUTSIDE OF THE BUILDING NEAR THE RIGHT-OF-WAY LINE OR IN A HEATED ABOVE GROUND ENCLOSURE NEAR THE RIGHT-OF-WAY LINE.
- ALL JOINTS ON NEW WATER SERVICE PIPE, FITTINGS AND VALVES SHALL BE MECHANICALLY RESTRAINED. CONCRETE THRUST BLOCKS ARE ALSO REQUIRED AT FITTINGS PER DETAIL DRAWINGS S900-4, S900-5, S900-9 AND S900-10.
- A BACKFLOW PREVENTION DEVICE IS REQUIRED ON ALL DOMESTIC WATER SERVICES 1 1/2" AND LARGER.
- NEW WATER SERVICE SHALL BE PRESSURE TESTED FROM GUARD VALVE TO WITHIN 5 FEET OF EXTERIOR BUILDING WALL. PRESSURE TESTING SHALL BE PERFORMED IN ACCORDANCE WITH SPECIFICATION S900-3.05, PIPE, FITTING AND VALVE JOINTS ON PORTION OF SERVICE NOT SUBJECT TO PRESSURE TEST SHALL BE LEAK TESTED AT NORMAL OPERATING PRESSURE.
- WHEN THE LENGTH OF THE NEW WATER SERVICE EXCEEDS 50 FEET, WATER SERVICE SHALL BE DISINFECTED USING THE CONTINUOUS FEED METHOD IN ACCORDANCE WITH SPECIFICATION S900-3.06. FOR WATER SERVICES LESS THAN 50 FEET, ALL WATER SERVICE PIPE, FITTINGS AND VALVES SHALL BE SPRAY OR SWAB DISINFECTED WITH 1%-5% CHLORINE SOLUTION.
- ON PLASTIC WATER SERVICES, WHEN DIMENSION "A" IS 6 FEET OR LESS AND THE CURB VALVE IS NOT REQUIRED, EXTEND TRACER WIRE ALONG SERVICE TO RIGHT-OF-WAY LINE AND INSTALL TRACER WIRE TERMINATION BOX AT RIGHT-OF-WAY.
- ONE MAGNESIUM ANODE IS TO BE INSTALLED ON EACH PIECE OF NEW DUCTILE IRON WATER SERVICE PIPE BETWEEN THE WATER MAIN AND RIGHT-OF-WAY LINE. SEE DETAIL S964-2. USE 17 POUND ANODE ON 4 INCH AND 6 INCH PIPE, 32 POUND ANODE ON 8 INCH AND 10 INCH PIPE AND 48 POUND ANODE ON 12 INCH PIPE.
- ALL DUCTILE IRON WATER SERVICE PIPE, FITTINGS AND VALVES LOCATED WITHIN THE STREET RIGHT-OF-WAY ARE TO BE INSTALLED IN POLYETHYLENE ENCASMENT.
- IF PLANS CALL FOR THE INSTALLATION OF A TAPPING SLEEVE AND VALVE, BUT THE WATER MAIN CAN NOT BE TAPPED DUE TO SPATIAL LIMITATIONS, A NEW SERVICE TEE WITH A SERVICE VALVE MAY NEED TO BE CUT INTO THE EXISTING WATER MAIN.
- PROPOSED DEVIATIONS TO THE APPROVED PLANS REQUIRE WATER BUREAU AUTHORIZATION BEFORE BEGINNING THE WORK.



NOTES:

- THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL EXCAVATIONS ARE ADEQUATELY PROTECTED IN ACCORDANCE WITH OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS.
- 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.
- THE CONTRACTOR SHALL MAKE AND SHOR 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

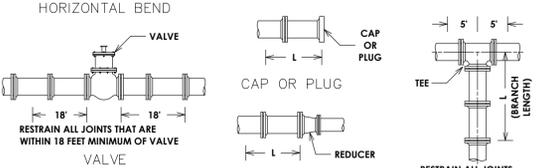
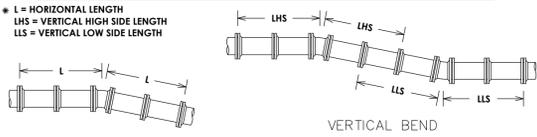
EXCAVATION FOR	A	B	C
SMALL SERVICE TAP (2-INCH AND SMALLER)	0'-6"	5'-0"	4'-0"
LARGE SERVICE TAP (4-INCH AND LARGER)	1'-0"	7'-0"	4'-0"

**CITY OF ROCHESTER
WATER SERVICE TAP
EXCAVATION**

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

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
4" - 6"	L	16	7	3	2	29
	LHS	49	24	12	6	...
	LLS	16	6	3	2	...
8"	L	20	9	4	2	31
	LHS	64	31	15	8	...
	LLS	20	8	4	2	...
12"	L	28	12	6	3	56
	LHS	91	44	21	11	...
	LLS	28	11	5	3	...

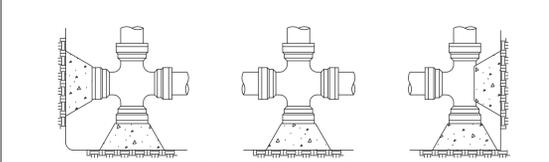
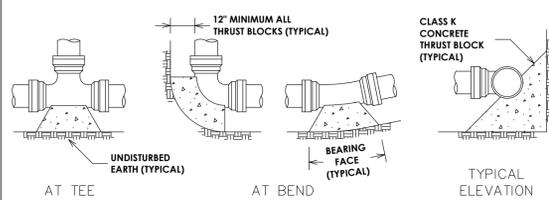
* L = HORIZONTAL LENGTH
LHS = VERTICAL HIGH SIDE LENGTH
LLS = VERTICAL LOW SIDE LENGTH



- NOTES:
- 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.
 - CONCRETE THRUST BLOCK IS TO BE USED IN ADDITION TO MECHANICAL RESTRAINT DEVICES. SEE DETAILS S900-4 AND S900-5.
 - 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.
 - ASSUMPTION: SP SOILS, 4.50 FEET COVER, AND TYPE 4 LAYING CONDITION.

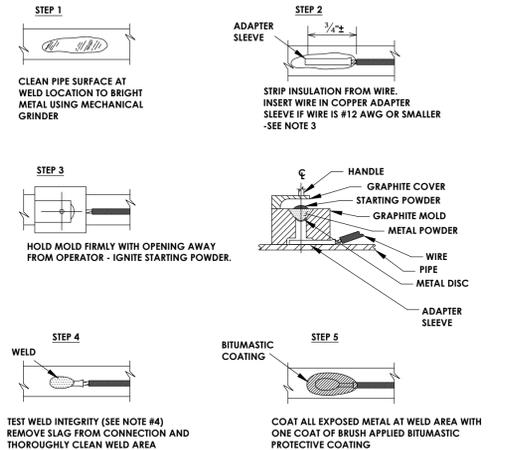
CITY OF ROCHESTER
WATER MAIN PIPE RESTRAINT DOMESTIC SYSTEM
ISSUED 5-8-08 NON-STANDARD
REVISED 9-1-09 DWG. NO. S900-7

AREA OF BEARING FACE OF THRUST BLOCK IN SQUARE FEET (AREA BASED ON INTERNAL PRESSURE OF 250 PSIG AND SOIL BEARING PRESSURE OF 2000 PSF) (SEE NOTE 1)						
PIPE SIZE	BEND				TEE PLUG	REDUCER
	90°	45°	22-1/2°	11-1/4°		
4" - 6"	7	4	2	1	5	6" x 4"
8"	12	7	4	2	8	8" x 6"
12"	25	14	7	4	18	12" x 8"



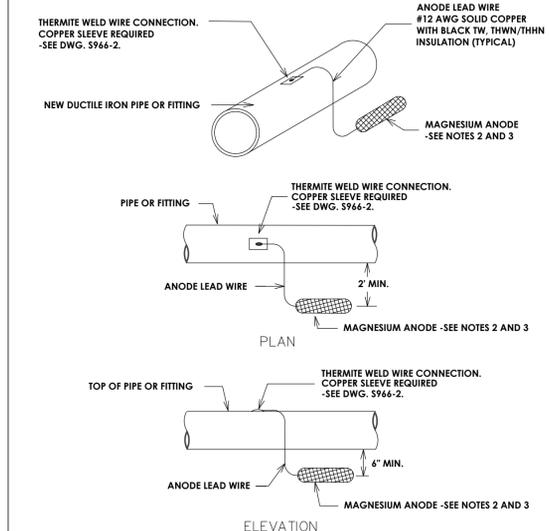
- NOTES:
- SPECIAL DESIGN IS REQUIRED FOR FITTINGS ON HOLLY WATER MAIN PIPE LARGER THAN 12 INCHES.
 - THRUST BLOCK IS TO BE POURED AGAINST UNDISTURBED EARTH. WIDTH OF THRUST BLOCK SHOULD BE APPROXIMATELY TWICE HEIGHT.
 - THRUST BLOCK IS TO BE INSTALLED AT ALL BENDS, TEES, AND TAPPING SLEEVE AND VALVE CONNECTIONS.
 - FACTORY CAST OFFSETS ARE TO BE TREATED AS (2) 45 DEGREE BENDS.
 - FOR REDUCERS, THRUST BLOCK IS TO BE KEED INTO WALLS AND BOTTOM OF TRENCH.
 - MECHANICAL RESTRAINT IS REQUIRED IN ADDITION TO THRUST BLOCK. SEE DETAIL S900-8.
 - WOOD BLOCKING IS NOT PERMITTED.

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



- NOTES:
- FOLLOW MANUFACTURER'S PROCEDURES AND RECOMMENDATIONS WHEN THERMITE WELDING.
 - USE APPROPRIATE WELD MOLDS AND WELD METALS FOR SPECIFIC SIZE AND MATERIAL OF PIPE THAT WIRE IS BEING ATTACHED TO.
 - 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.
 - 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

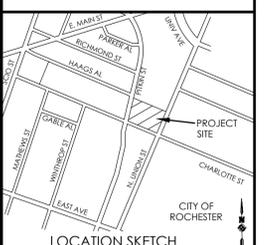


- NOTES:
- PIPE/FITTING PROTECTIVE WRAP IS NOT SHOWN FOR CLARITY. UNLESS OTHERWISE NOTED, DUCTILE IRON WATER MAIN SHALL BE WRAPPED WITH POLYETHYLENE WRAP AND NON-EPOXY COATED DUCTILE IRON FITTINGS ON PLASTIC WATER MAINS SHALL BE COATED WITH PRIMER AND WAX TAPE.
 - USE HIGH POTENTIAL MAGNESIUM ANODE IN 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.
 - 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

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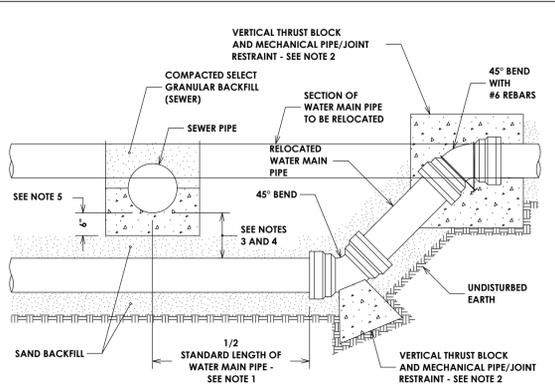
Client:
Home Leasing
180 Clinton Square
Rochester, NY 14604

Revisions

No.	Date	By	Description
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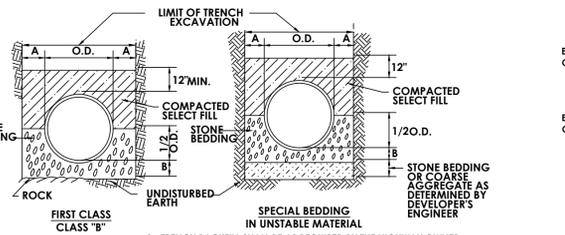
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DETAILS
CHARLOTTE SQUARE PHASE III
City: Rochester
County: Monroe State: New York
Project No. 20141995.0006
Drawing No. C 203 Sheet No. 8
Scale: N.T.S.
Date: NOVEMBER 2016



- NOTES:
- 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.
 - THRUST BLOCKS AND PIPE/JOINT RESTRAINTS ARE TO BE PROVIDED AT ALL BENDS. SEE DETAILS S900-5, S900-7, S900-8 AND S900-10.
 - 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.
 - WHERE VERTICAL SEPARATION IS LESS THAN 18 INCHES, WATER MAIN PIPE JOINTS LOCATED WITHIN 18 FEET OF BOTH SIDES OF SEWER PIPE MUST BE ENCASED WITHIN CONTROLLED DENSITY FILL MATERIAL, OR SEWER PIPE CONSTRUCTED WITH WATER MAIN STANDARD PIPE AND TESTED TO 150 PSI.
 - WHERE WATER MAIN PIPE PASSES UNDER SEWER PIPE THERE IS TO BE MINIMUM OF 4 INCHES OF CLASS K CONCRETE OR CRUSHED STONE BEDDING MATERIAL FOR SEWER PIPE.

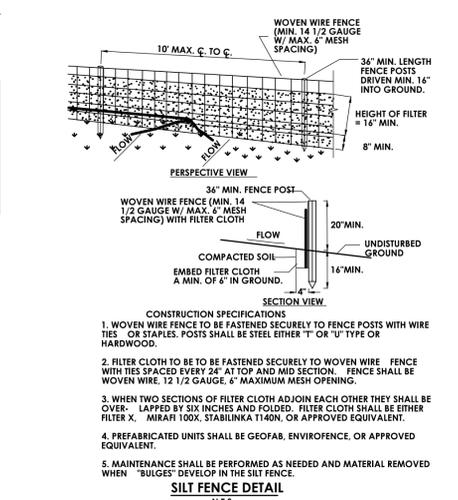
CITY OF ROCHESTER
WATER MAIN CROSSING BELOW SEWER PIPE
ISSUED 1-13-06 NON-STANDARD
REVISED 11-22-10 DWG. NO. S900-3



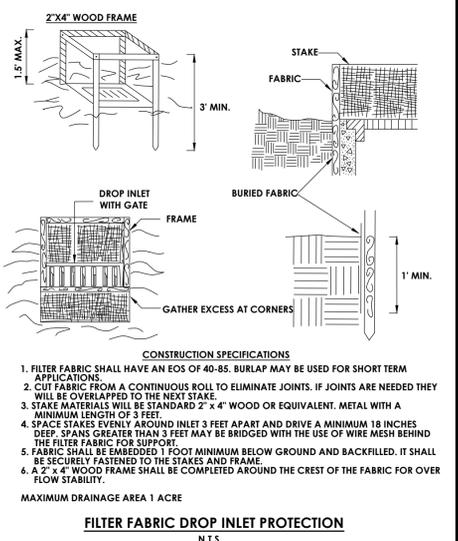
- STORM SEWER/SANITARY SEWER BEDDING DETAILS
N.T.S.
- TRENCH BACKFILL SHALL BE AS REQUIRED BY THE HIGHWAY OWNER.
 - SELECT FILL SHALL BE SAND, GRAVEL, AND SIMILAR MATERIAL WHICH SHALL BE FREE FROM CLAY, LOAM, ORGANIC MATERIAL, DEBRIS, FROZEN MATERIAL AND SHALL CONTAIN ONLY SMALL AMOUNTS OF STONE, PEBBLES OR LUMPS OVER ONE INCH IN GREATEST DIMENSION BUT NONE OVER TWO INCHES IN GREATEST DIMENSION.
 - STONE BEDDING SHALL MEAN APPROVED IMPORTED AGGREGATE MEETING THE REQUIREMENTS OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATION, JAN. 2, 1990 EDITION, AS REVISED, SUBSECTION 703-0201 "CRUSHED STONE", PRIMARY SIZE 1 OR A MIXTURE OF PRIMARY SIZES 1 AND 2.
 - COARSE AGGREGATE SHALL MEAN APPROVED IMPORTED AGGREGATE MEETING THE REQUIREMENTS OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATION, JAN. 2, 1990 EDITION, AS REVISED, SUBSECTION 703-0201 "CRUSHED STONE", PRIMARY SIZE 3 AND/OR 4.
 - THIS FIGURE APPLIES TO SANITARY MAINLINE AND LATERAL PIPE INSTALLATION AS WELL AS FORCE MAINS.



- CONSTRUCTION SPECIFICATIONS
- STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
 - LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
 - THICKNESS - NOT LESS THAN SIX (6) INCHES.
 - WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
 - FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
 - SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
 - MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
 - WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
 - PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.



- SILT FENCE DETAIL
N.T.S.
- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
 - FILTER CLOTH TO BE TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 12 1/2 GAUGE, 6" MAXIMUM MESH OPENING.
 - WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRA 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
 - PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUIVALENT.
 - MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.



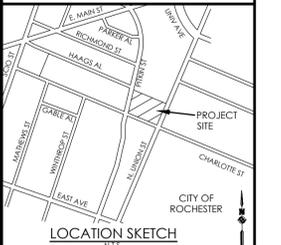
- FILTER FABRIC DROP INLET PROTECTION
N.T.S.
- FILTER FABRIC SHALL HAVE AN EOS OF 40-85. BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS.
 - CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.
 - STAKE MATERIALS WILL BE STANDARD 2" x 4" WOOD OR EQUIVALENT. METAL WITH A MINIMUM LENGTH OF 3 FEET.
 - SPACE STAKES EVENLY AROUND INLET 3 FEET APART AND DRIVE A MINIMUM 18 INCHES DEEP. SPANS GREATER THAN 3 FEET MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND THE FILTER FABRIC FOR SUPPORT.
 - FABRIC SHALL BE EMBEDDED 1 FOOT MINIMUM BELOW GROUND AND BACKFILLED. IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.
 - A 2" x 4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVER FLOW STABILITY.



PASSERO ASSOCIATES
engineering architecture

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- C 204 DETAILS



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Designed by: Tim Harris, P.E.

Revisions			
No.	Date	By	Description
1			

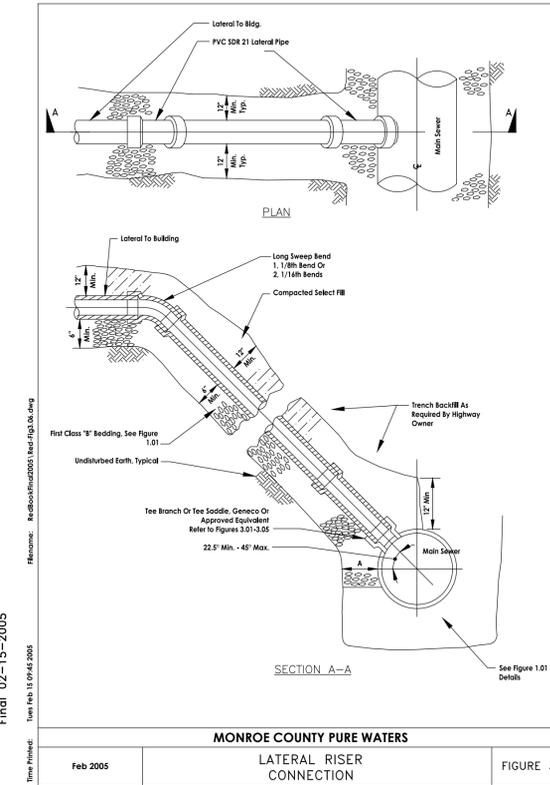
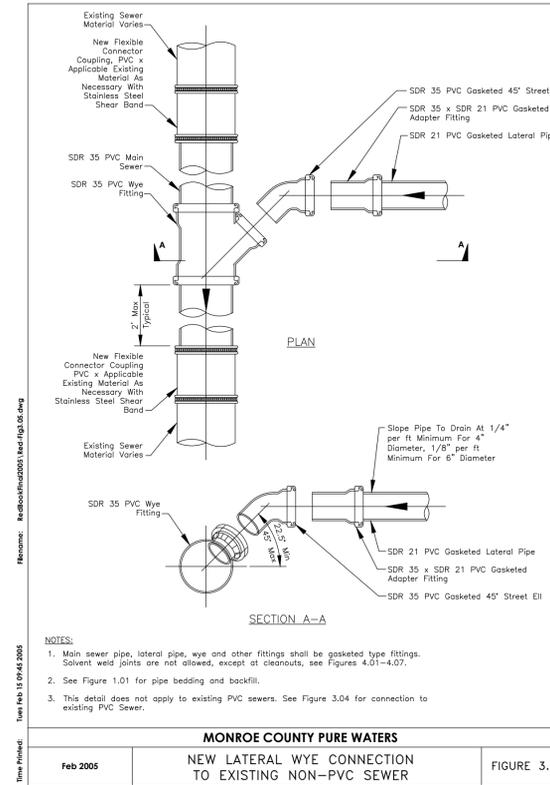
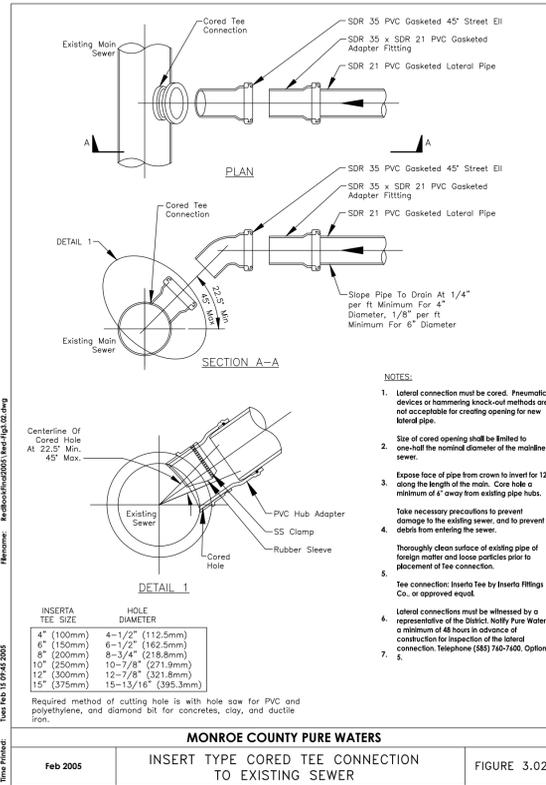
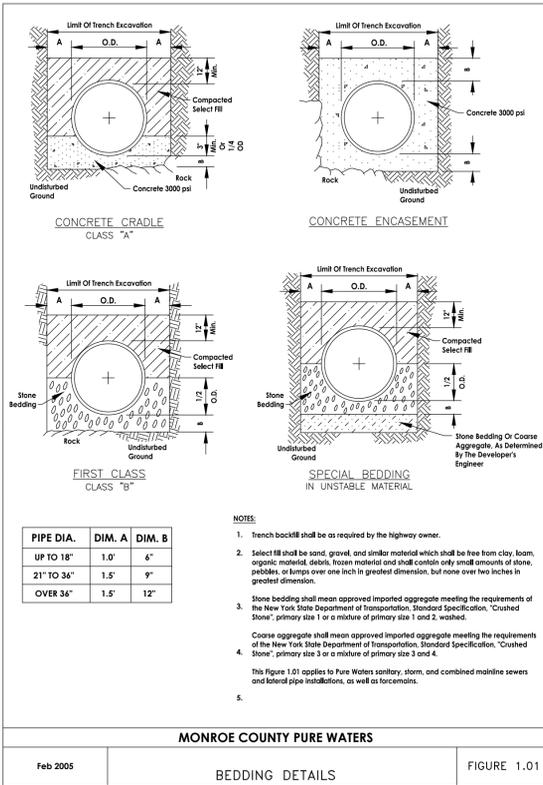
DETAILS
CHARLOTTE SQUARE
PHASE III
City: Rochester
County: Monroe
State: New York

Project No.
2014195.0006

Drawing No. C 204
Sheet No. 9

Scale: N.T.S.

Date: NOVEMBER 2016



MINIMUM RESTRAINED LENGTH FOR WATER MAIN PIPE ADJACENT TO FITTINGS (IN FEET) (BASED ON INTERNAL PRESSURE OF 250 PSI) (SEE NOTE 1)							
PIPE SIZE (INCHES)	MINIMUM LENGTH #	90°	45°	22-1/2°	11-1/4°	REDUCER	TEE
4" - 6"	L	23	10	5	3	44	44
	LHS	74	35	17	9	...	...
	LLS	23	9	5	3	...	...
8"	L	30	13	6	3	47	70
	LHS	96	46	23	11	...	...
	LLS	30	12	6	3	...	...
12"	L	43	18	9	5	84	117
	LHS	138	64	32	16	...	...
	LLS	43	16	8	4	...	...

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

NOTES:

- SPECIAL DESIGN IS REQUIRED FOR FITTINGS ON HOLLY WATER MAIN PIPE AND FITTING JOINTS WITHIN 12 INCHES AND FOR REDUCERS HAVING MORE THAN ONE PIPE SIZE DIFFERENCE.
- CONCRETE THRUST BLOCK IS TO BE USED IN ADDITION TO MECHANICAL RESTRAINT DEVICES. SEE DETAILS 5900-9 AND 5900-10.
- ALL POLYETHYLENE WRAPPED DUCTILE IRON HOLLY WATER MAIN PIPE AND FITTING JOINTS WITHIN 12 INCHES AND FOR DIMENSIONS MUST BE RESTRAINED USING APPROVED MECHANICAL RESTRAINT DEVICE.
- ASSUMPTION: SP SOILS, 5 FEET COVER, AND TYPE 4 LAYING CONDITION.

CITY OF ROCHESTER
WATER MAIN PIPE RESTRAINT HOLLY SYSTEM
ISSUED 5-8-08 NON-STANDARD
REVISED 9-1-09 DWG. NO. 5900-8

MONROE COUNTY PURE WATERS
Feb 2005
RPWD RECOMMENDED CLEANOUT FOR NEW 6" LATERAL CONNECTION
FIGURE 4.04

