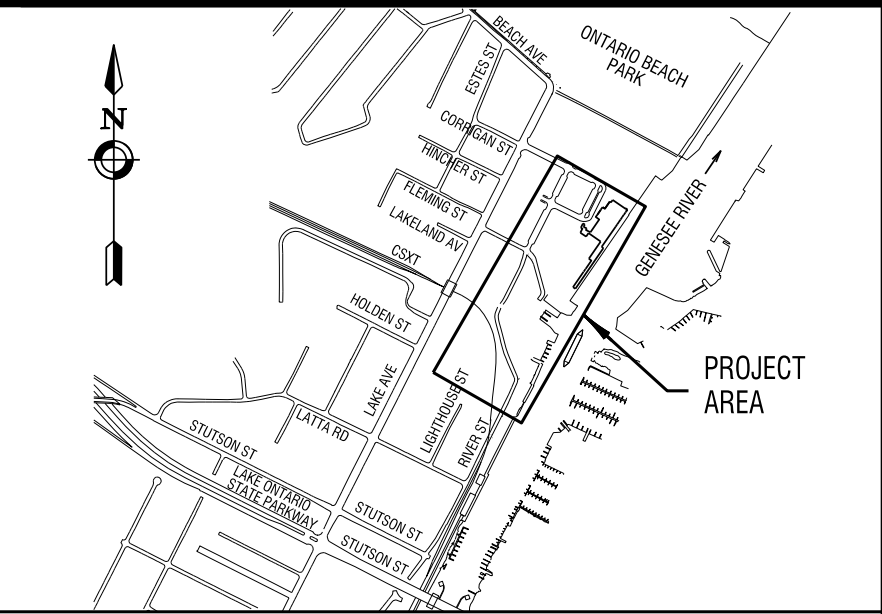


GENERAL LOCATION MAP



ENLARGED VIEW



www.edgewaterresources.com  
406 STATE STREET  
SAINT JOSEPH, MI 49085  
P: (269) 932.4502  
F: (269) 932.3542



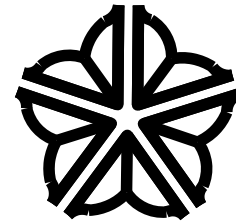
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Engineering  
Architecture  
Environmental  
Planning

PREPARED BY

# CITY OF ROCHESTER, NEW YORK

## DEPARTMENT OF ENVIRONMENTAL SERVICES



### 50% PROGRESS PLANS

# PORT OF ROCHESTER MARINA DEVELOPMENT PROJECT

COMMISSIONER - D.E.S.

DATE

MONROE COUNTY DIRECTOR OF TRANSPORTATION DATE

DIRECTOR, WATER & LIGHTING BUREAU DATE

CITY ENGINEER

DATE

PLOTDRW: BW\_Hall.dwg  
MODEL: COVER SHEET  
FILE: C:\Edgewater Resources\LP\210660 - Port Marina Drawings\Civil\Usabam\Contract.dwg\COVER SHEET.dgn  
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## GENERAL NOTES

- THE CONTRACTOR IS TO FOLLOW THE PROVISIONS OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, EXCEPT FOR THOSE AS REVISIONS IN THE SPECIFICATION SECTION OF THE CONTRACT DOCUMENTS. THE REVISED SPECIFICATION SUPERSEDES THE STANDARD SPECIFICATION.
- THE CONTRACTOR IS TO USE THE CITY OF ROCHESTER STANDARD DETAILS, EXCEPT FOR THOSE DELINEATED WITHIN THE CONTRACT PLANS. THE DETAILS DELINEATED WITHIN THE CONTRACT PLANS SUPERSEDE THE STANDARD DETAIL.
- THE CONTRACTOR IS TO OBTAIN WORK RELEASES FROM THE RESPECTIVE PROPERTY OWNER WHERE WORK IS TO BE PERFORMED OUTSIDE OF THE PUBLIC RIGHT-OF-WAY. ON PRIVATELY OWNED PROPERTY, A COPY OF THE WORK RELEASE IS TO BE FILED WITH THE PROJECT MANAGER.
- THE LOCATIONS OF EXISTING UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE ONLY. NOR ARE THEY GUARANTEED TO BE ACCURATE OR COMPLETE. ALL UTILITIES WERE PLOTTED FROM FIELD SURFACE SURVEY DATA AND IN CONJUNCTION WITH RECORD MAPPINGS SUPPLIED BY THE RESPECTIVE UTILITY COMPANY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION OF ALL UTILITIES LOCATED WITHIN THE WORK AREA. TO THE CONTRACTORS' SATISFACTION, THE CONTRACTOR IS TO REQUEST A UTILITY STAKE OUT A MINIMUM OF 2 WORKING DAYS IN ADVANCE OF COMMENCING ANY WORK. BY CALLING THE UNDERGROUND FACILITIES PROTECTIVE ORGANIZATION (UFFO) AT 1-800-962-7962.
- ALL RIGHT-OF-WAY MONUMENTS AND PROPERTY CORNERS ARE TO BE SAFEGUARDED AND PRESERVED. ALL RIGHT-OF-WAY MONUMENTS OR PROPERTY CORNERS THAT ARE DISTURBED BY THE CONTRACTOR DURING CONSTRUCTION ARE TO BE REPLACED BY A NYS LICENSED SURVEYOR, AT THE CONTRACTORS' EXPENSE.
- SAW CUTS MADE IN THE ROADWAY ARE TO BE FULL DEPTH. WITH ALL OTHER SAW CUTS BEING A MINIMUM OF 2 INCHES IN DEPTH, FULL DEPTH PAVEMENT SAW CUTS WILL BE PAID FOR IN THE RESPECTIVE WORK RELATED ITEM. ALL SAW CUTS ARE TO BE SEALED WITH AN ASPHALT FILLER PER NYS DOT MATERIAL DESIGNATION 702-0700 OR 702-3401. THE COST OF WHICH IS TO BE INCLUDED IN THE UNIT PRICE BID FOR THE RESPECTIVE WORK RELATED ITEM.
- THE CONTRACTOR IS TO PROVIDE PROTECTION FOR ALL OF THE EXISTING TREES WITHIN THE PROJECT LIMITS THROUGHOUT THE COURSE OF THE PROJECT. TO MINIMIZE AS MUCH AS POSSIBLE ANY DAMAGE OCCURRING TO THE TREES AS A RESULT OF THE CONTRACTORS' CONSTRUCTION ACTIVITIES, TREE PROTECTION IS TO BE IN PLACE BEFORE ANY WORK IS STARTED, AND IS TO BE IN THE FORM OF ORANGE CONSTRUCTION SAFETY FENCING OR WOOD RAILS PLACED AROUND EACH TREE PER SECTION S617 AND THE DETAIL DRAWINGS.
- ALL SIDEWALK RAMP ARE TO BE OF THE TYPE AS NOTED, AND LOCATED AS SHOWN IN THE PLANS. HEADER CURB FOR THE SIDEWALK RAMP IS TO BE 5 FEET LONG, WITH THE TRANSITION CURBS BEING FROM 3 TO 7 FEET IN LENGTH.
- WHERE NEW SIDEWALK IS TO BE CONSTRUCTED ADJACENT TO OTHER PAVED AREAS, A MINIMUM OF 2 FEET OF THE ADJACENT PAVED AREA IS TO BE REPLACED IN KIND.
- BETWEEN THE CURB AND SIDEWALK, REMOVE ALL EXISTING ASPHALT, BRICK, CONCRETE, AND SLATE MATERIALS IN LOCATIONS AS DESIGNATED ON THE DRAWINGS. EXCAVATE TO A DEPTH THAT IS SUFFICIENT TO REMOVE THE EXISTING MATERIAL. BACKFILL THE EXCAVATED AREA WITH SELECT BACKFILL MATERIAL EXCAVATED FROM THE SITE, 4 INCHES OF TOPSOIL AND HYDROSEED, PER SECTION R610, AND NYS DOT SECTIONS 203 AND 613.
- THE CONTRACTOR IS TO TAKE APPROPRIATE MEASURES TO PREVENT DIRT, DEBRIS AND CONSTRUCTION MATERIALS FROM ENTERING THE SEWER MAIN, LATERALS, CATCH BASINS, MANHOLES AND OTHER APPURTENANCES DURING CONSTRUCTION.
- REPLACEMENT FRAMES AND COVERS FOR SEWER MANHOLES WILL BE FURNISHED BY MONROE COUNTY PURE WATERS. THE CONTRACTOR IS TO MAKE ARRANGEMENTS TO OBTAIN THE REPLACEMENT FRAMES AND COVERS FROM MONROE COUNTY PURE WATERS STOCKROOM BY CALLING 1-716-789-7100. EXTENSION 7061. THE STOCKROOM REQUIRES A MINIMUM OF 2 WORKING DAYS ADVANCE NOTICE TO MAKE ARRANGEMENTS TO OBTAIN THE REPLACEMENT FRAMES AND COVERS.
- WHERE AN EXISTING CATCH BASIN IS TO BE REMOVED, ALL PORTIONS OF THE WALLS AND FOUNDATION ARE TO BE REMOVED, AND THE EXISTING LATERAL AND UNDERDRAIN PIPES PLUGGED WITH CONCRETE. THE COST OF WHICH IS TO BE INCLUDED IN THE UNIT PRICE BID FOR ITEM R206.04. SEE DETAIL DRAWING FOR BACKFILL AND PAVEMENT RESTORATION REQUIREMENTS.
- THE MAXIMUM DISTANCE BETWEEN DISINFECTION/SAMPLING TAPS ON NEW WATER MAIN PIPE IS 1,000 FEET.
- APPROPRIATE MEASURES ARE TO BE TAKEN TO PREVENT DIRT, DEBRIS, AND GROUND WATER FROM CONTAMINATING THE WATER MAIN. THE GROUND WATER LEVEL IS NEVER TO BE LESS THAN 12 INCHES BELOW THE PIPE INVERT, AND WHENEVER AN OPEN PIPE END IS UNATTENDED, IT IS TO BE COVERED IN A WATER TIGHT MANNER.
- THE WATER MAIN IS TO BE DISINFECTED EQUAL TO AWWA STANDARD FOR DISINFECTING WATER MAINS DESIGNATION C651 (LATEST REVISION), FOLLOWING DISINFECTION, THE WATER MAIN IS TO BE FLUSHED UNTIL THE CHLORINE CONCENTRATION IN THE WATER LEAVING THE MAIN IS NO HIGHER THAN THAT GENERALLY PREVAILING IN THE SYSTEM. THE SAMPLING POINT(S) MUST BE DECONTAMINATED BY FLAMING. FIRE HYDRANTS ARE NOT ACCEPTABLE SAMPLING POINTS. THE MONROE COUNTY DEPARTMENT OF HEALTH MUST RECEIVE AT LEAST 48 HOUR ADVANCE NOTIFICATION REQUESTING SAMPLING SERVICES. SAMPLING WILL NOT BE PERFORMED PRIOR TO RECEIPT FROM A NYS 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 WERE COMPLETED IN ACCORDANCE WITH THE APPROVED PLANS, REPORTS, SPECIFICATIONS AND ANY APPROVED AMENDMENTS. THE DEPARTMENT WILL COLLECT SAMPLES FOR FREE CHLORINE RESIDUAL, TOTAL AND FECAL COLIFORM AND 24 HOUR BACTERIAL PLATE COUNT. ALL WATER MAIN FITTINGS NOT RECEIVING 24 HOUR CHLORINE DISINFECTION CONTACT TIME MUST BE SWAB DISINFECTED 30 MINUTES PRIOR TO INSTALLATION. THE WATER MAIN WILL NOT BE PLACED IN SERVICE UNTIL SO AUTHORIZED BY THE MONROE COUNTY DEPARTMENT OF HEALTH.
- MINIMUM VERTICAL SEPARATION BETWEEN WATER MAINS AND SEWER PIPE LINES IS TO BE 18 INCHES MEASURED FROM THE OUTSIDE OF THE PIPES AT THE POINT OF CROSSING. ONE FULL STANDARD LAYING LENGTH OF WATER MAIN IS TO 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 (COMPARED SELECT FILL) IS TO 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) IS TO BE 10 FEET MEASURED FROM THE OUTSIDE OF THE PIPES, MANHOLES OR VAULTS.
- WHEN INSTALLING FIRE HYDRANTS, SHOULD GROUND WATER BE ENCOUNTERED WITHIN 7 FEET OF THE FINISHED GRADE, FIRE HYDRANT WEEP HOLES (DRAINS) ARE TO BE PLUGGED.
- THE WATER MAIN IS TO 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 ALL ABANDONED WATER MAIN PIPE AND HYDRANT BRANCHES, THE CONTRACTOR IS TO PLUG ALL CUT AND OPEN PIPE ENDS WITH 12 INCHES CONCRETE. THE COST OF WHICH IS TO BE INCLUDED IN THE UNIT PRICE BID FOR ITEMS UNDER SECTIONS R907, R908 AND R917. THE CONTRACTOR IS TO LEAVE ALL ABANDONED WATER VALVES AND CURB STOPS IN THE SHUT POSITION, INCLUDING WATER VALVES ON HYDRANT BRANCHES, AND REMOVE ALL ABANDONED VALVE BOXES.
- THE CONTRACTOR IS TO USE CAUTION WHEN WORKING IN THE VICINITY OF EXISTING WATER MAINS WHICH ARE TO REMAIN IN SERVICE. NO VIBRATORY EQUIPMENT IS TO BE USED WITHIN 5 FEET (HORIZONTALLY) OF THE EXISTING WATER MAIN.
- CONSTRUCT ALL SEWERS, LATERALS, CATCH BASINS, MANHOLES, AND ASSOCIATED APPURTENANCES IN CONFORMANCE WITH THE REQUIREMENTS OF THE ROCHESTER PURE WATERS DISTRICT.
- ALL OLD/REMOVED 13" X 19" CATCH BASIN GRATES ARE THE PROPERTY OF THE ROCHESTER PURE WATERS DISTRICT. RETURN GRATES TO MONROE COUNTY PURE WATERS ROCHESTER OPERATIONS CENTER, 444 EAST HENRIETTA ROAD, ROCHESTER, NEW YORK, MONDAY THROUGH FRIDAY BETWEEN 8:00 AM AND 3:00 PM AT NO COST TO THE OWNER.

## EXISTING FEATURES LEGEND

---	CONTOUR (10' INTERVAL)	(T)	TELEPHONE MANHOLE
----	CONTOUR (025' INTERVAL)	(TV)	TELEVISION HANDHOLE
⊗ MUP	METAL UTILITY POLE	(C)	CITY HANDHOLE
⊗ WUP	WOOD UTILITY POLE	(CO)	COUNTY HANDHOLE
☼ FLP	FIBERGLASS LIGHT POLE	(E)	ELECTRIC HANDHOLE
☼ MLP	METAL LIGHT POLE	♿	HANDICAPPED RAMP
☁	SHRUBROW	☀	GROUND LIGHT
●	SHRUB	●	BOLLARD POST
○ <sup>Z</sup>	DECIDUOUS TREE & SIZE	FFE'25420'	FINISHED FLOOR ELEVATION
★ <sup>Z</sup>	CONIFEROUS TREE & SIZE	○-----○	CHAIN HANDRAIL
▭	RECTANGULAR CATCH BASIN	□---□	METAL GUARD RAIL
⚡ HYD.	HYDRANT	○-----○	CHAIN LINK FENCE
○ WV	WATER VALVE	///-----///	WOODEN FENCE
○ GV	GAS VALVE	●-----●	METAL FENCE
⊗	MONITORING WELL	●	RCS MONUMENT
⊙	DRAINAGE MANHOLE	●	PK NAIL
⊙	SEWER MANHOLE	○	DH
⊙	ELECTRIC MANHOLE	○	DRILL HOLE/CIRCLE

## LIST OF DRAWINGS

DRAWING NAME	DRAWING NO.
<b>GENERAL PLANS</b>	
GENERAL NOTES, LEGEND, AND DRAWING LIST	G1.01
INDEX PLAN	G2.01
STAGING AREA PLAN	G4.01
<b>SURVEY / MAPPING PLANS</b>	
EXISTING CONDITIONS PLAN	V1.01 - V1.07
<b>CIVIL PLANS</b>	
DEMOLITION PLAN	C1.01 - C1.05
UTILITY PLAN	C2.01 - C2.05
UTILITY PROFILES	C3.01 - C3.07
SITE PLAN - BOATER SERVICES BLDG	C4.01
SITE PLAN - BOAT LAUNCH	C5.01
GRADING PLAN	C6.01 - C6.05
HIGHWAY PLAN	C7.01 - C7.06
HIGHWAY PROFILES	C8.01 - C8.04
CONSTRUCTION DETAILS - SANITARY AND STORM	C10.01 - C10.03
CONSTRUCTION DETAILS - WATER MAIN	C11.01 - C11.03
TYPICAL SECTIONS - HIGHWAY	C12.01 - C12.03
CONSTRUCTION DETAILS - HIGHWAY	C12.04 - C12.10
CONSTRUCTION DETAILS - LIGHTING	C13.01 - C13.02
<b>MARINE PLANS</b>	
MARINA AND SLIP LAYOUT PLAN	ME1.01
MARINA ENTRANCE PLAN AND SECTION	ME1.02
REVIEWMENT AND TIEBACK DETAILS	ME1.03
PHASE II MARINA AND SLIP LAYOUT PLAN	ME1.04
<b>LANDSCAPE PLANS</b>	
OVERALL LAYOUT / GRADING PLAN	LS1.00
LAYOUT / GRADING PLAN	LS1.01 - LS1.05
LAYOUT / GRADING ENLARGEMENTS	LS1.06 - LS1.08
LAYOUT PLAN SECTIONS	LS1.09 - LS1.10
HARDSCAPE DETAILS	LS1.11 - LS1.12
<b>LANDSCAPE PLANTING PLANS</b>	
OVERALL PLANTING / GRADING PLAN	LP3.00
PLANTING PLAN	LP3.01 - LP3.05
PLANTING DETAILS	LP3.06

PROJECT/CLIENT

## PORT OF ROCHESTER MARINA DEVELOPMENT PROJECT ROCHESTER, NY



City of Rochester

NO.	DATE	REVISION
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This is a violation of New York Education Law Article 145 Sec. 2709, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter in any way, or in any manner, the seal of an architect, engineer, or land surveyor, or to alter, in any manner, the drawing, specification, engineer, or land surveyor shall affix to the item their seal and notations "altered by" followed by their signature and size of such alteration, and a specific description of the alteration.  
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## GENERAL NOTES AND LEGEND

DATE: MARCH 18, 2011

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DRAWN BY:

REVIEWED BY:

PROJECT NUMBER: 210660

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# G1.01

PROJECT/CLIENT

**PORT OF ROCHESTER  
MARINA DEVELOPMENT  
PROJECT**  
ROCHESTER, NY



City of Rochester

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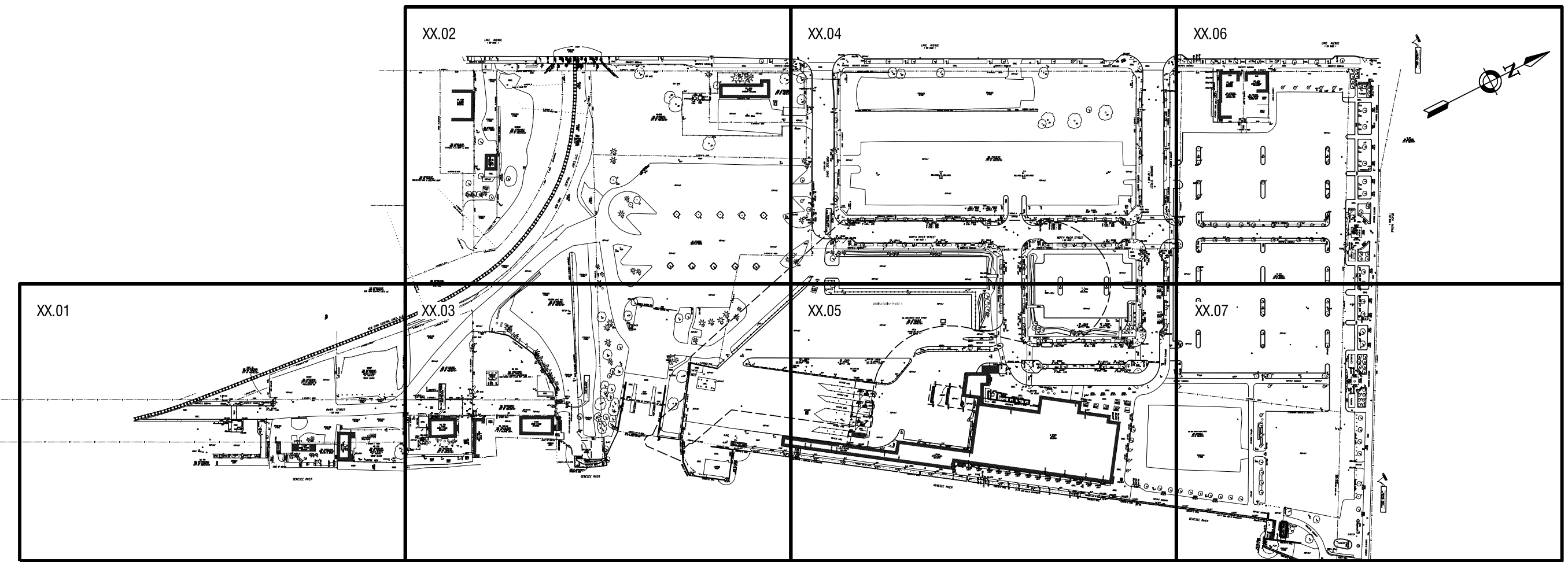
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**INDEX PLAN**

DATE:	MARCH 18, 2011
SCALE:	NTS
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DRAWN BY:	
REVIEWED BY:	
PROJECT NUMBER:	210660

DRAWING NUMBER

**G2.01**



**NOTE:**  
SEVERAL DRAWING SHEET TYPES IN THIS PLAN SET HAVE MULTIPLE SEQUENCE NUMBERS. THIS INDEX PLAN DESIGNATES THE COMMON SEQUENCE NUMBERS USED AMONG THE VARIOUS DRAWING SHEET TYPES.  
THE HIGHWAY PLANS USE UNIQUE SEQUENCE NUMBERS WHICH FOLLOW THE ALIGNMENT OF THE PROPOSED STREET NETWORK.

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G2.1  
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**PORT OF ROCHESTER  
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ROCHESTER, NY**



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**EXISTING  
CONDITIONS PLAN**

DATE: MARCH 18, 2011

SCALE: 1" = 30'

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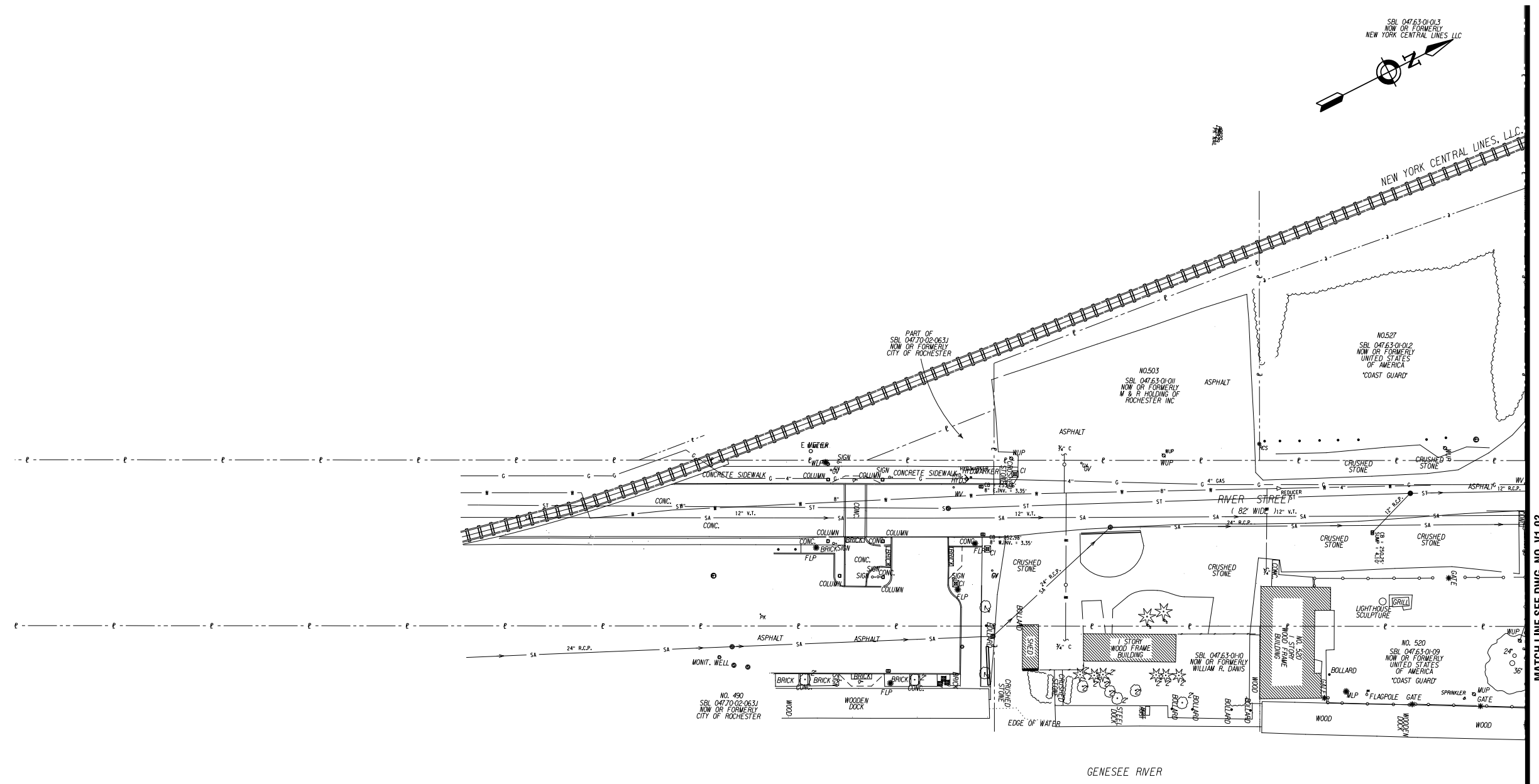
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DRAWING NUMBER

**V1.01**



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 DATE: TIME: 3/17/2011 3:05:11 PM

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ROCHESTER, NY**



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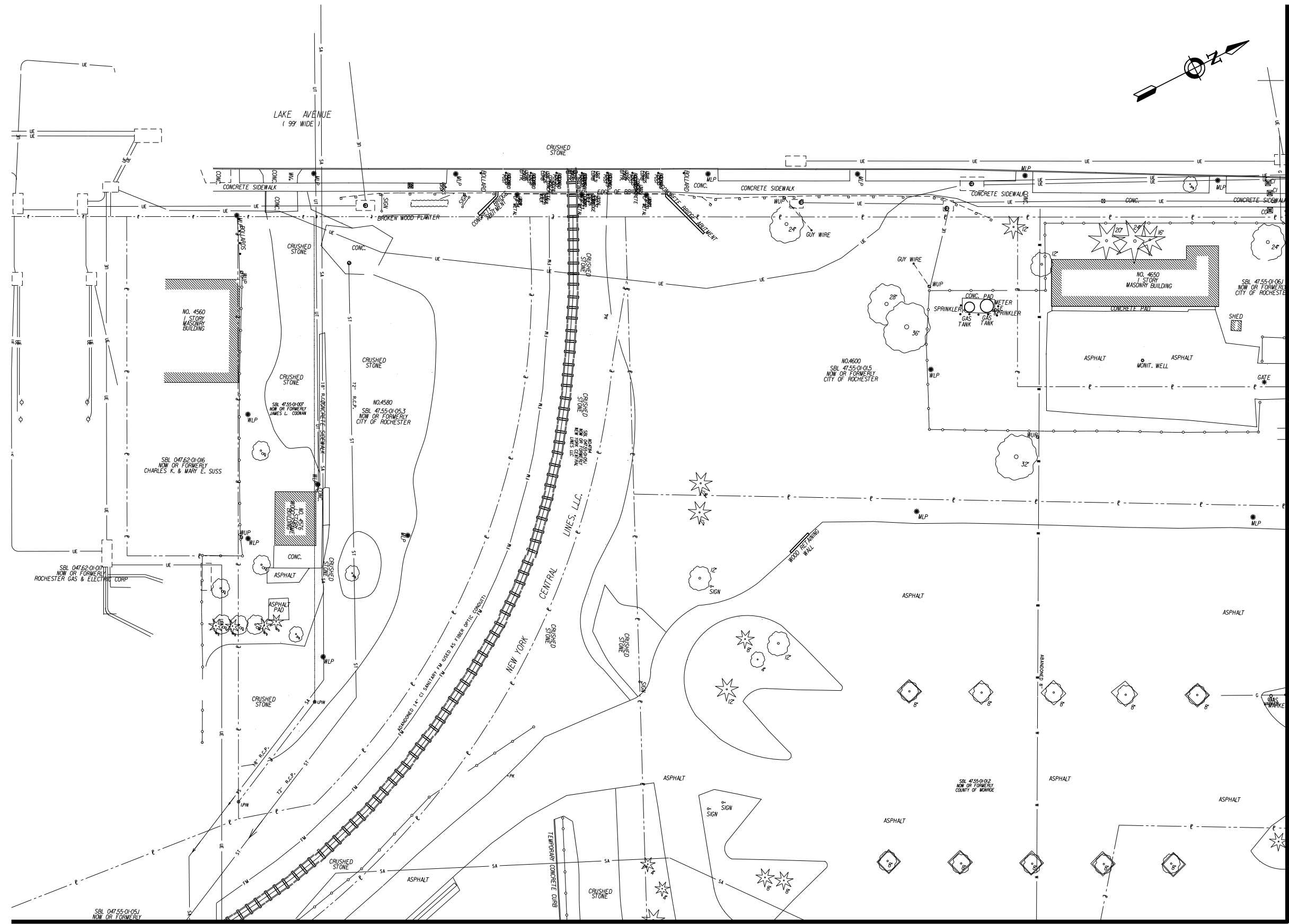
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PROJECT NUMBER: 210660  
DRAWING NUMBER

**V1.02**



MATCH LINE SEE DWG. NO. V1.04

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MODEL: V1.02  
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**PORT OF ROCHESTER  
MARINA DEVELOPMENT  
PROJECT**  
ROCHESTER, NY



City of Rochester

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**EXISTING  
CONDITIONS PLAN**

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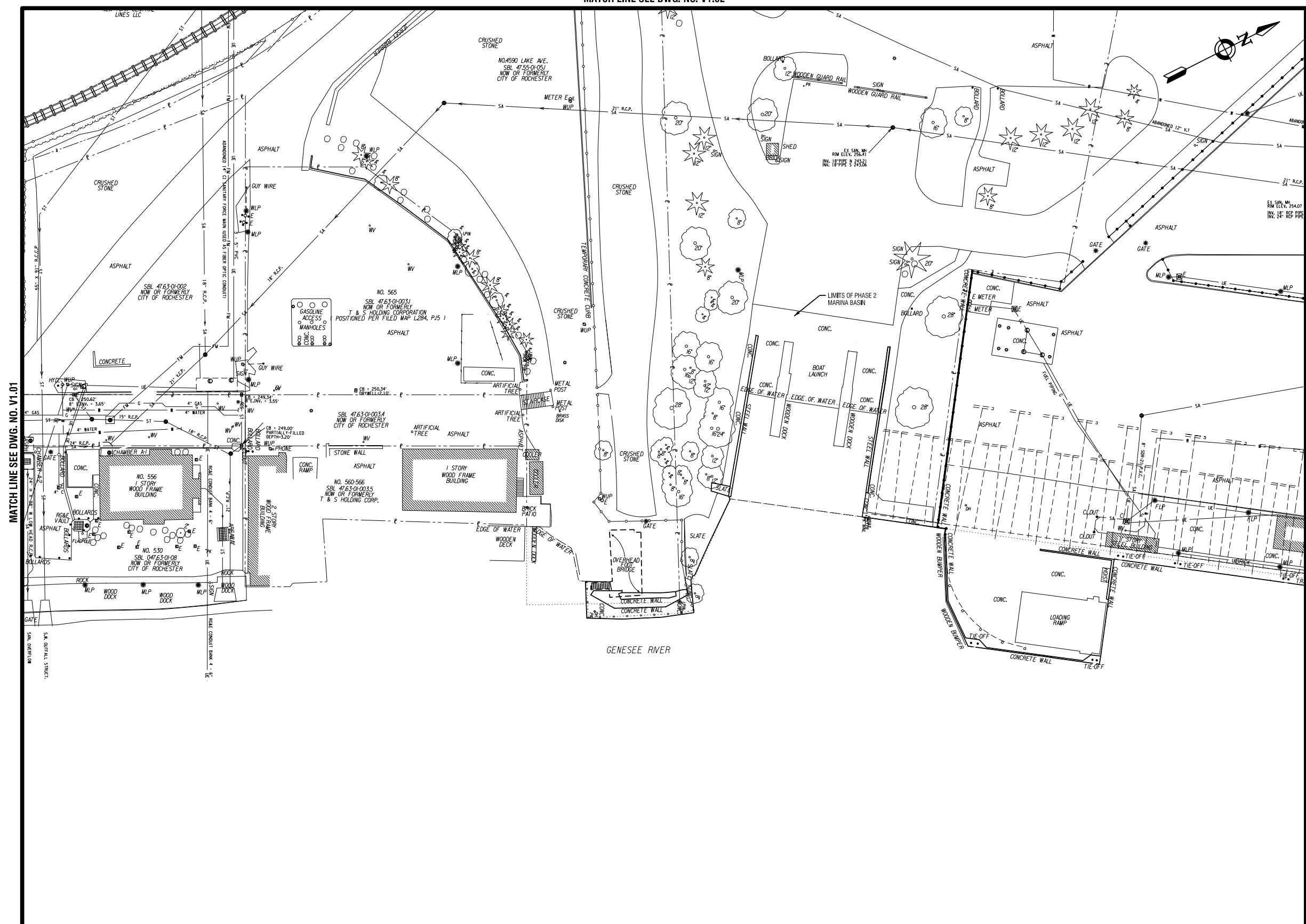
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PROJECT NUMBER: 210660

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**V1.03**

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MATCH LINE SEE DWG. NO. V1.01

MATCH LINE SEE DWG. NO. V1.05

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MODEL: V1.03  
FILE: V1.03  
DATE: 3/17/2011  
Edgewater Resources, LLP 2/16/80 - Port Marina Drawings/Civil/Usabam/Contract.dwg/V1.01-V1.07 Existing Conditions.dgn  
030524-FH



PROJECT/CLIENT

**PORT OF ROCHESTER  
MARINA DEVELOPMENT  
PROJECT**  
ROCHESTER, NY



City of Rochester

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**EXISTING  
CONDITIONS PLAN**

DATE: MARCH 18, 2011

SCALE: 1" = 30'

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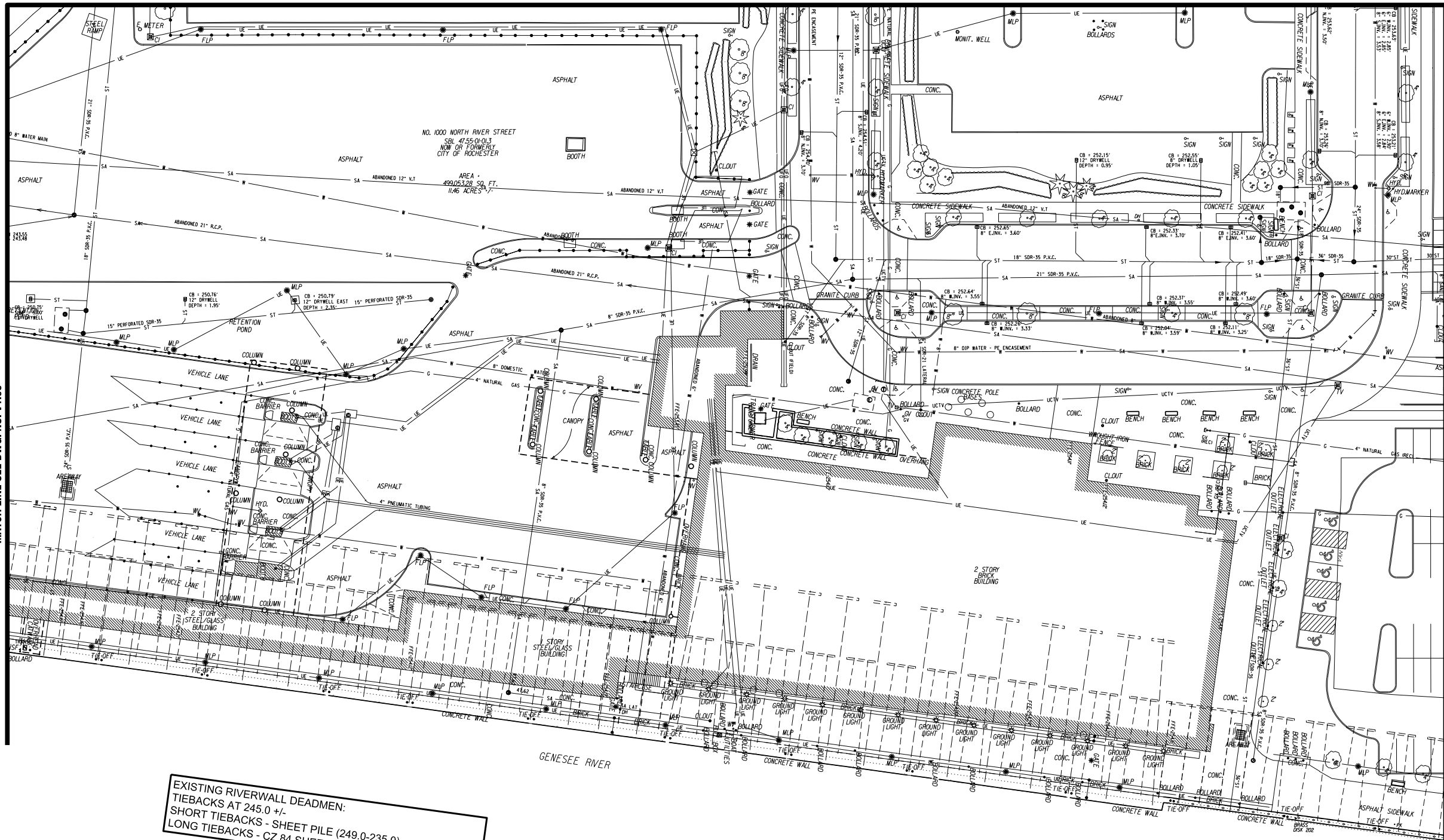
REVIEWED BY:

PROJECT NUMBER: 210660

DRAWING NUMBER

**V1.05**

MATCH LINE SEE DWG. NO. V1.04



**EXISTING RIVERWALL DEADMEN:  
TIEBACKS AT 245.0 +/-  
SHORT TIEBACKS - SHEET PILE (249.0-235.0)  
LONG TIEBACKS - CZ 84 SHEET PILE, 11' WIDE (251.75-227.0)**

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 MODEL: V1.05  
 FILE: T:\Projects\Edgewater Resources\LP\210660 - Port Marina Drawings\Civil\Stationing\Contract.dwg\V1.01-V1.07\_Existing Conditions.dgn  
 DATE: TIME: 3/17/2011 3:03:28 PM









PROJECT/CLIENT

**PORT OF ROCHESTER  
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ROCHESTER, NY



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**DEMOLITION PLAN**

DATE: MARCH 18, 2011  
SCALE: 1" = 30'  
DESIGNED BY:  
DRAWN BY:  
REVIEWED BY:  
PROJECT NUMBER: 210660

DRAWING NUMBER

**C1.02**

**DEMOLITION NOTES**

**SALVAGE ITEMS WITHIN AREAS IMPACTED BY CONSTRUCTION**

- SALVAGE ALL LIGHTING FIXTURES FOR REINSTALLATION ON-SITE
- SALVAGE ALL VALVES AND HYDRANT UNITS, PROVIDE TO CITY WATER BUREAU AT A LOCATION TBD
- SALVAGE AND CLEAN GRANITE CURBING, REINSTALL ON-SITE AT SPECIFIED LOCATIONS, PROVIDE BALANCE TO COR AT LOCATION TBD
- SALVAGE VORTECHNICS UNIT WITHIN EMBARKING / DISEMBARKING AREA, PROVIDE TO MCPW AT LOCATION TBD
- SALVAGE MANHOLE COVERS AND CATCH BASIN GRATES, PROVIDE TO MCPW AT LOCATION TBD
- SALVAGE ALL DECORATIVE FENCING AND GATES, PROVIDE TO COR AT LOCATION TBD
- SALVAGE ALL STREETSCAPE AMENITIES, E.G. BENCHES, TRASH RECEPTACLES, DECORATIVE BOLLARDS, ETC, PROVIDE TO COR AT LOCATION TBD
- SALVAGE ALL TICKET AND INSPECTION BOOTHS IN EMBARKING / DISEMBARKING AREA, PROVIDE TO COR AT LOCATION TBD
- TRANSPLANT ALL TREES 6-12 INCHES DBH AT LOCATIONS IN ONTARIO BEACH PARK TBD

**GENERAL DEMOLITION IN AREAS IMPACTED BY CONSTRUCTION**

- DEMO AND REMOVE ALL HARDSCAPE AND LANDSCAPE TREATMENTS NOT IDENTIFIED FOR SALVAGE, E.G. ASPHALT, CONCRETE, PLANTINGS, ETC

**DEMOLITION AND ABANDONMENT OF PUBLIC UTILITIES (WATER / SANITARY/ STORM)**

- DEMO AND REMOVE ALL SANITARY SEWER, DRAINAGE PIPING AND WATERMAIN WITHIN THE LIMITS OF THE MARINA EXCAVATION.
- REMOVE ALL MANHOLES AND CATCH BASINS WITHIN THE LIMITS OF THE MARINA EXCAVATION
- BEYOND THE LIMITS OF MARINA EXCAVATION, REMOVE AND BACKFILL ALL DEFUNCT MANHOLES AND CATCH BASINS, AND ABANDON ALL DEFUNCT UTILITY PIPING IN-PLACE BY FILLING COMPLETELY WITH FLOWABLE FILL

**PRIVATE UTILITY ABANDONMENTS ALONG RIVER ST, HINCHER ST, CORRIGAN ST, AND THE DROPOFF LOOP**

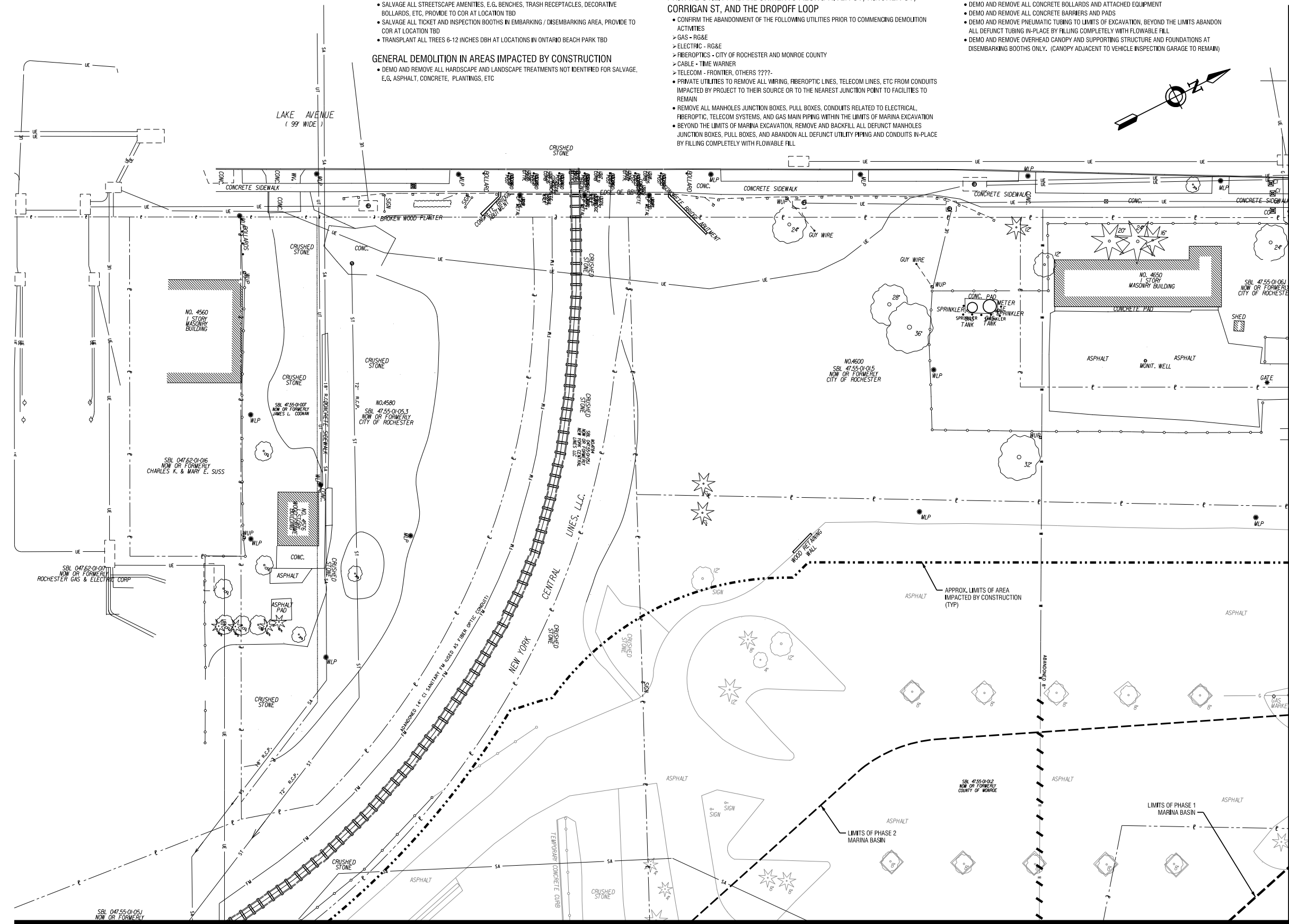
- CONFIRM THE ABANDONMENT OF THE FOLLOWING UTILITIES PRIOR TO COMMENCING DEMOLITION ACTIVITIES
  - GAS - RG&E
  - ELECTRIC - RG&E
  - FIBEROPTICS - CITY OF ROCHESTER AND MONROE COUNTY
  - CABLE - TIME WARNER
  - TELECOM - FRONTIER, OTHERS ????
- PRIVATE UTILITIES TO REMOVE ALL WIRING, FIBEROPTIC LINES, TELECOM LINES, ETC FROM CONDUITS IMPACTED BY PROJECT TO THEIR SOURCE OR TO THE NEAREST JUNCTION POINT TO FACILITIES TO REMAIN
- REMOVE ALL MANHOLES, JUNCTION BOXES, PULL BOXES, CONDUITS RELATED TO ELECTRICAL, FIBEROPTIC, TELECOM SYSTEMS, AND GAS MAIN PIPING WITHIN THE LIMITS OF MARINA EXCAVATION
- BEYOND THE LIMITS OF MARINA EXCAVATION, REMOVE AND BACKFILL ALL DEFUNCT MANHOLES, JUNCTION BOXES, PULL BOXES, AND ABANDON ALL DEFUNCT UTILITY PIPING AND CONDUITS IN-PLACE BY FILLING COMPLETELY WITH FLOWABLE FILL

**SITE UTILITIES (OUTSIDE ROADWAY)**

- REMOVE ALL WIRING, FIBEROPTIC LINES, TELECOM LINES, ETC FROM CONDUITS IMPACTED BY MARINA EXCAVATION TO THEIR SOURCE OR TO THE NEAREST JUNCTION POINT TO FACILITIES TO REMAIN
- REMOVE ALL POLES, MANHOLES, JUNCTION BOXES, PULL BOXES, CONDUITS RELATED TO ELECTRICAL, FIBEROPTIC, TELECOM SYSTEMS WITHIN THE LIMITS OF MARINA EXCAVATION.
- BEYOND THE LIMITS OF MARINA EXCAVATION, REMOVE AND BACKFILL ALL DEFUNCT MANHOLES, JUNCTION BOXES, PULL BOXES, AND ABANDON ALL DEFUNCT UTILITY CONDUITS IN-PLACE BY FILLING COMPLETELY WITH FLOWABLE FILL

**DEMOLITION EMBARKING / DISEMBARKING AREAS**

- DEMO AND REMOVE ALL CONCRETE BOLLARDS AND ATTACHED EQUIPMENT
- DEMO AND REMOVE ALL CONCRETE BARRIERS AND PADS
- DEMO AND REMOVE PNEUMATIC TUBING TO LIMITS OF EXCAVATION, BEYOND THE LIMITS ABANDON ALL DEFUNCT TUBING IN-PLACE BY FILLING COMPLETELY WITH FLOWABLE FILL
- DEMO AND REMOVE OVERHEAD CANOPY AND SUPPORTING STRUCTURE AND FOUNDATIONS AT DISEMBARKING BOOTHS ONLY. (CANOPY ADJACENT TO VEHICLE INSPECTION GARAGE TO REMAIN)



PLOTDATE: BW\_half.phd  
 MODEL: C1.02  
 FILEPATH: C:\Edgewater Resources\LP\2010\1980 - Port Marina Drawings\Civil\Submittal\Contract.dwg\1.01-C1.02-DEMOLITION PLAN.dwg  
 DATE: 03/17/2011 3:07:28 PM

MATCH LINE SEE DWG. NO. C1.03

MATCH LINE SEE DWG. NO. C1.04

PROJECT/CLIENT

**PORT OF ROCHESTER  
MARINA DEVELOPMENT  
PROJECT**  
ROCHESTER, NY



City of Rochester

NO.	DATE	REVISION
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By a violation of New York Education Law Article 145 Sec. 209, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter in any way, or to cause to be altered in any way, any contract, agreement, or bond prepared by, or on behalf of, the architect, engineer, or land surveyor, shall be liable to the State for a civil penalty of not more than \$500.00 for each violation, and a specific description of the alteration.

ISSUED FOR

**50% DESIGN**

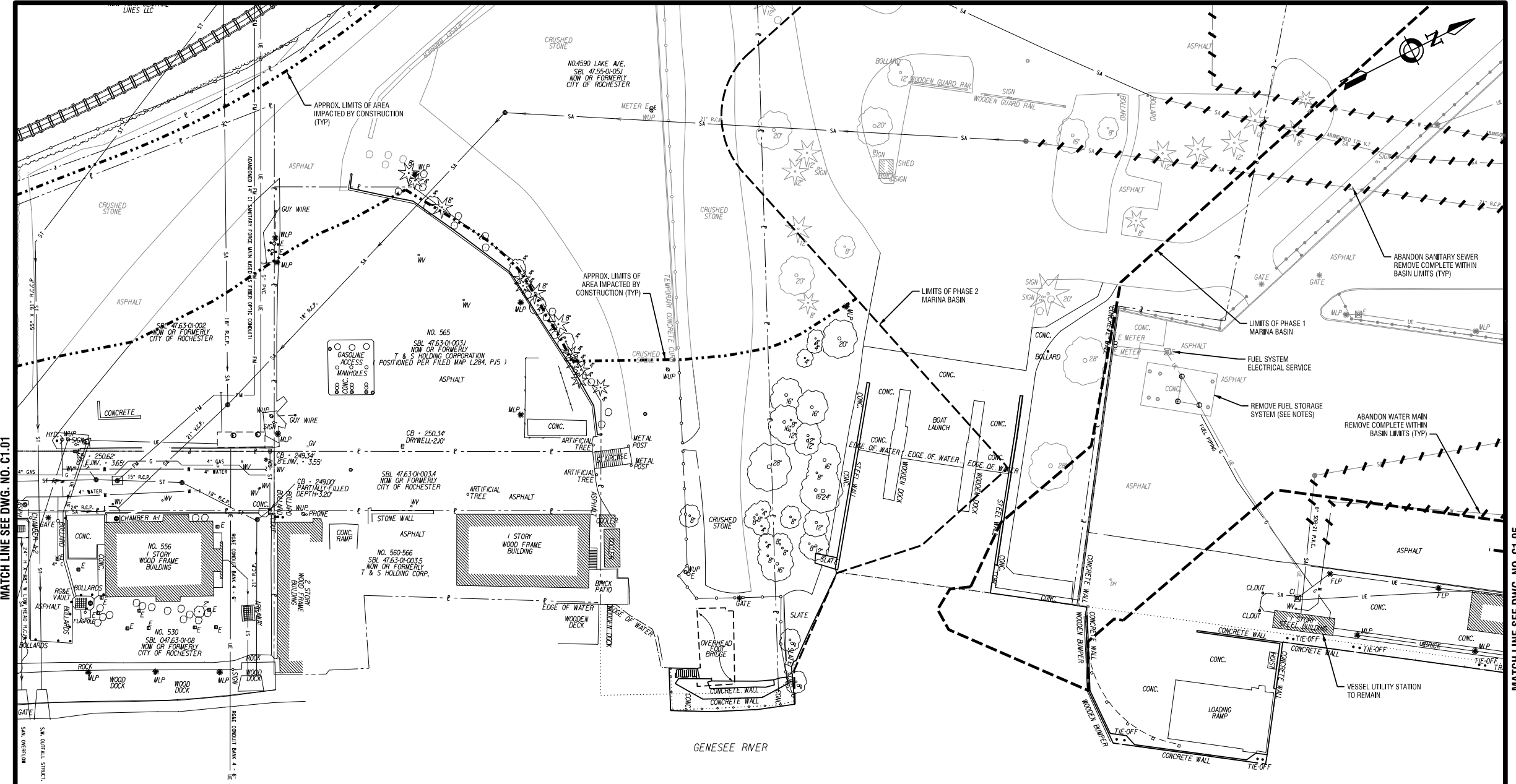
DRAWING TITLE

**DEMOLITION PLAN**

DATE:	MARCH 18, 2011
SCALE:	1" = 30'
DESIGNED BY:	
DRAWN BY:	
REVIEWED BY:	
PROJECT NUMBER:	210660
DRAWING NUMBER:	

**C1.03**

MATCH LINE SEE DWG. NO. C1.02



MATCH LINE SEE DWG. NO. C1.01

MATCH LINE SEE DWG. NO. C1.05

**DEMOLITION NOTES**

- SALVAGE ITEMS WITHIN AREAS IMPACTED BY CONSTRUCTION**
- SALVAGE ALL LIGHTING FIXTURES FOR REINSTALLATION ON-SITE
  - SALVAGE ALL VALVES AND HYDRANT UNITS. PROVIDE TO CITY WATER BUREAU AT A LOCATION TBD
  - SALVAGE AND CLEAN GRANITE CURBING. REINSTALL ON-SITE AT SPECIFIED LOCATIONS, PROVIDE BALANCE TO COR AT LOCATION TBD
  - SALVAGE VORTECHNICS UNIT WITHIN EMBARKING / DISEMBARKING AREA, PROVIDE TO MCPW AT LOCATION TBD
  - SALVAGE MANHOLE COVERS AND CATCH BASIN GRATES, PROVIDE TO MCPW AT LOCATION TBD
  - SALVAGE ALL DECORATIVE FENCING AND GATES, PROVIDE TO COR AT LOCATION TBD
  - SALVAGE ALL STREETSCAPE AMENITIES, E.G. BENCHES, TRASH RECEPTACLES, DECORATIVE BOLLARDS, ETC, PROVIDE TO COR AT LOCATION TBD
  - SALVAGE ALL TICKET AND INSPECTION BOOTHS IN EMBARKING / DISEMBARKING AREA, PROVIDE TO COR AT LOCATION TBD
  - TRANSPLANT ALL TREES 6-12 INCHES DBH AT LOCATIONS IN ONTARIO BEACH PARK TBD
- GENERAL DEMOLITION IN AREAS IMPACTED BY CONSTRUCTION**
- DEMO AND REMOVE ALL HARDSCAPE AND LANDSCAPE TREATMENTS NOT IDENTIFIED FOR SALVAGE, E.G. ASPHALT, CONCRETE, PLANTINGS, ETC
- DEMOLITION AND ABANDONMENT OF PUBLIC UTILITIES (WATER / SANITARY/ STORM)**
- DEMO AND REMOVE ALL SANITARY SEWER, DRAINAGE PIPING AND WATERMAIN WITHIN THE LIMITS OF THE MARINA EXCAVATION.
  - REMOVE ALL MANHOLES AND CATCH BASINS WITHIN THE LIMITS OF THE MARINA EXCAVATION
  - BEYOND THE LIMITS OF MARINA EXCAVATION, REMOVE AND BACKFILL ALL DEFUNCT MANHOLES AND CATCH BASINS, AND ABANDON ALL DEFUNCT UTILITY PIPING IN-PLACE BY FILLING COMPLETELY WITH FLOWABLE FILL

**PRIVATE UTILITY ABANDONMENTS ALONG RIVER ST, HINCHER ST, CORRIGAN ST, AND THE DROPOFF LOOP**

- CONFIRM THE ABANDONMENT OF THE FOLLOWING UTILITIES PRIOR TO COMMENCING DEMOLITION ACTIVITIES
  - GAS - RG&E
  - ELECTRIC - RG&E
  - FIBEROPTICS - CITY OF ROCHESTER AND MONROE COUNTY
  - CABLE - TIME WARNER
  - TELECOM - FRONTIER, OTHERS ????
- PRIVATE UTILITIES TO REMOVE ALL WIRING, FIBEROPTIC LINES, TELECOM LINES, ETC FROM CONDUITS IMPACTED BY PROJECT TO THEIR SOURCE OR TO THE NEAREST JUNCTION POINT TO FACILITIES TO REMAIN
- REMOVE ALL MANHOLES JUNCTION BOXES, PULL BOXES, CONDUITS RELATED TO ELECTRICAL, FIBEROPTIC, TELECOM SYSTEMS, AND GAS MAIN PIPING WITHIN THE LIMITS OF MARINA EXCAVATION
- BEYOND THE LIMITS OF MARINA EXCAVATION, REMOVE AND BACKFILL ALL DEFUNCT MANHOLES JUNCTION BOXES, PULL BOXES, AND ABANDON ALL DEFUNCT UTILITY PIPING AND CONDUITS IN-PLACE BY FILLING COMPLETELY WITH FLOWABLE FILL

**SITE UTILITIES (OUTSIDE ROADWAY)**

- REMOVE ALL WIRING, FIBEROPTIC LINES, TELECOM LINES, ETC FROM CONDUITS IMPACTED BY MARINA EXCAVATION TO THEIR SOURCE OR TO THE NEAREST JUNCTION POINT TO FACILITIES TO REMAIN
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**DEMOLITION EMBARKING / DISEMBARKING AREAS**

- DEMO AND REMOVE ALL CONCRETE BOLLARDS AND ATTACHED EQUIPMENT
- DEMO AND REMOVE ALL CONCRETE BARRIERS AND PADS
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- DEMO AND REMOVE OVERHEAD CANOPY AND SUPPORTING STRUCTURE AND FOUNDATIONS AT DISEMBARKING BOOTHS ONLY. (CANOPY ADJACENT TO VEHICLE INSPECTION GARAGE TO REMAIN)

**FUEL STORAGE AND DISPENSING SYSTEM**

- CONFIRM ABANDONMENT AND DECOMMISSIONING OF FUEL STORAGE AND DISPENSING SYSTEM IS COMPLETE PRIOR TO COMMENCING DEMOLITION ACTIVITIES
- CONFIRM ABANDONMENT OF ELECTRICAL SERVICE WITH RG&E PRIOR TO COMMENCING DEMOLITION ACTIVITIES
- REMOVE ALL JUNCTION BOXES, PULL BOXES, CONDUITS RELATED TO ELECTRICAL, SERVICE WITHIN THE LIMITS OF MARINA EXCAVATION
- REMOVE ALL FUEL TRANSFER LINES AND DISPENSING EQUIPMENT COMPLETE
- REMOVE DOUBLE WALLED FUEL TANKS, CONCRETE BALLAST, AND STONE FILL RELATED TO THE BELOW GRADE FUEL STORAGE FACILITY COMPLETE

PLOTDRW: BW\_half.dwg  
C1.03  
MODEL: C1.03  
FILE: P:\11 - Edgewater Resources\11\_P\210660 - Port Marina Drawings\Civil\Submittal\Contract.dwg\C1.01-C1.05 Demolition Plan.dwg  
DATE: 3/17/2011 3:02:54 PM



PROJECT/CLIENT

**PORT OF ROCHESTER  
MARINA DEVELOPMENT  
PROJECT**  
ROCHESTER, NY



City of Rochester

NO.	DATE	REVISION
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By a violation of New York Education Law Article 145 Sec. 2099, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter in any way, or to have altered in any way, any drawing, specification, or report prepared by him, or to have any such drawing, specification, or report altered in any way, without his signature and seal, or the signature and seal of such architect, engineer, or land surveyor, as a specific disclosure of the alteration.

ISSUED FOR

**50% DESIGN**

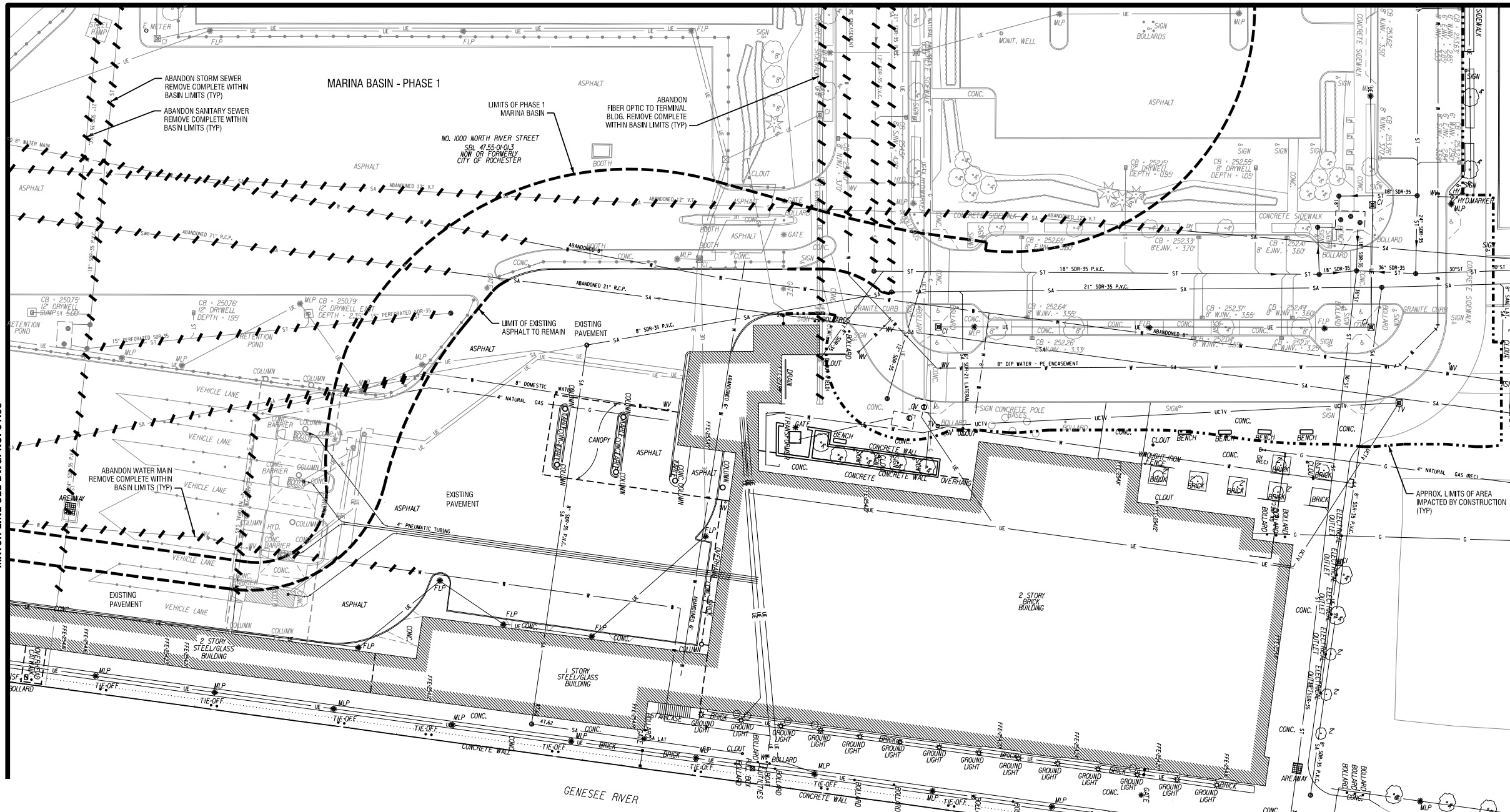
DRAWING TITLE

**DEMOLITION PLAN**

DATE:	MARCH 18, 2011
SCALE:	1" = 30'
DESIGNED BY:	
DRAWN BY:	
REVIEWED BY:	
PROJECT NUMBER:	210660
DRAWING NUMBER:	

**C1.05**

MATCH LINE SEE DWG. NO. C1.04



**DEMOLITION NOTES**

- SALVAGE ITEMS WITHIN AREAS IMPACTED BY CONSTRUCTION**
- SALVAGE ALL LIGHTING FIXTURES FOR REINSTALLATION ON-SITE
  - SALVAGE ALL VALVES AND HYDRANT UNITS. PROVIDE TO CITY WATER BUREAU AT A LOCATION TBD
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 DATE: 3/17/2011 3:07:28 PM





PROJECT/CLIENT

**PORT OF ROCHESTER  
MARINA DEVELOPMENT  
PROJECT**  
ROCHESTER, NY



City of Rochester

NO.	DATE	REVISION
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By a violation of New York Education Law Article 145 Sec. 7209, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter in any way, or to cause to be altered, the seal of an architect, engineer, or land surveyor, or to allow the printing, practice, engineer, or land surveyor, shall refer to the item that seal and register "altered" followed by their signature and date of such alteration, and a specific description of the alteration.  
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DRAWING TITLE

**UTILITY PLAN**

DATE: MARCH 18, 2011

SCALE: 1" = 30'

DESIGNED BY:

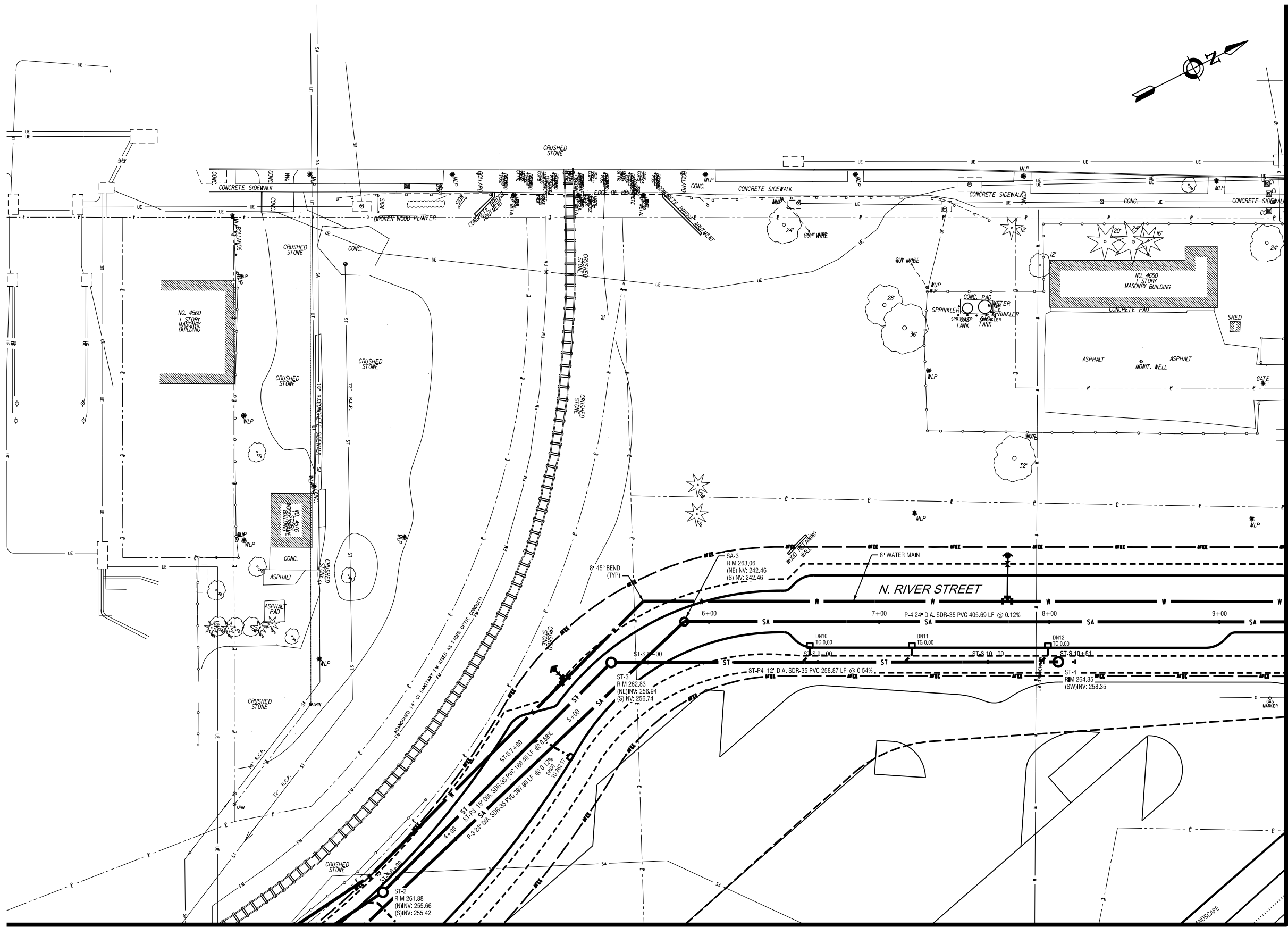
DRAWN BY:

REVIEWED BY:

PROJECT NUMBER: 210660

DRAWING NUMBER

**C2.02**



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 DATE/TIME: 3/17/2011 3:02:23 PM

MATCH LINE SEE DWG. NO. C2.03

MATCH LINE SEE DWG. NO. C2.04



PROJECT/CLIENT

**PORT OF ROCHESTER  
MARINA DEVELOPMENT  
PROJECT  
ROCHESTER, NY**



City of Rochester

NO.	DATE	REVISION
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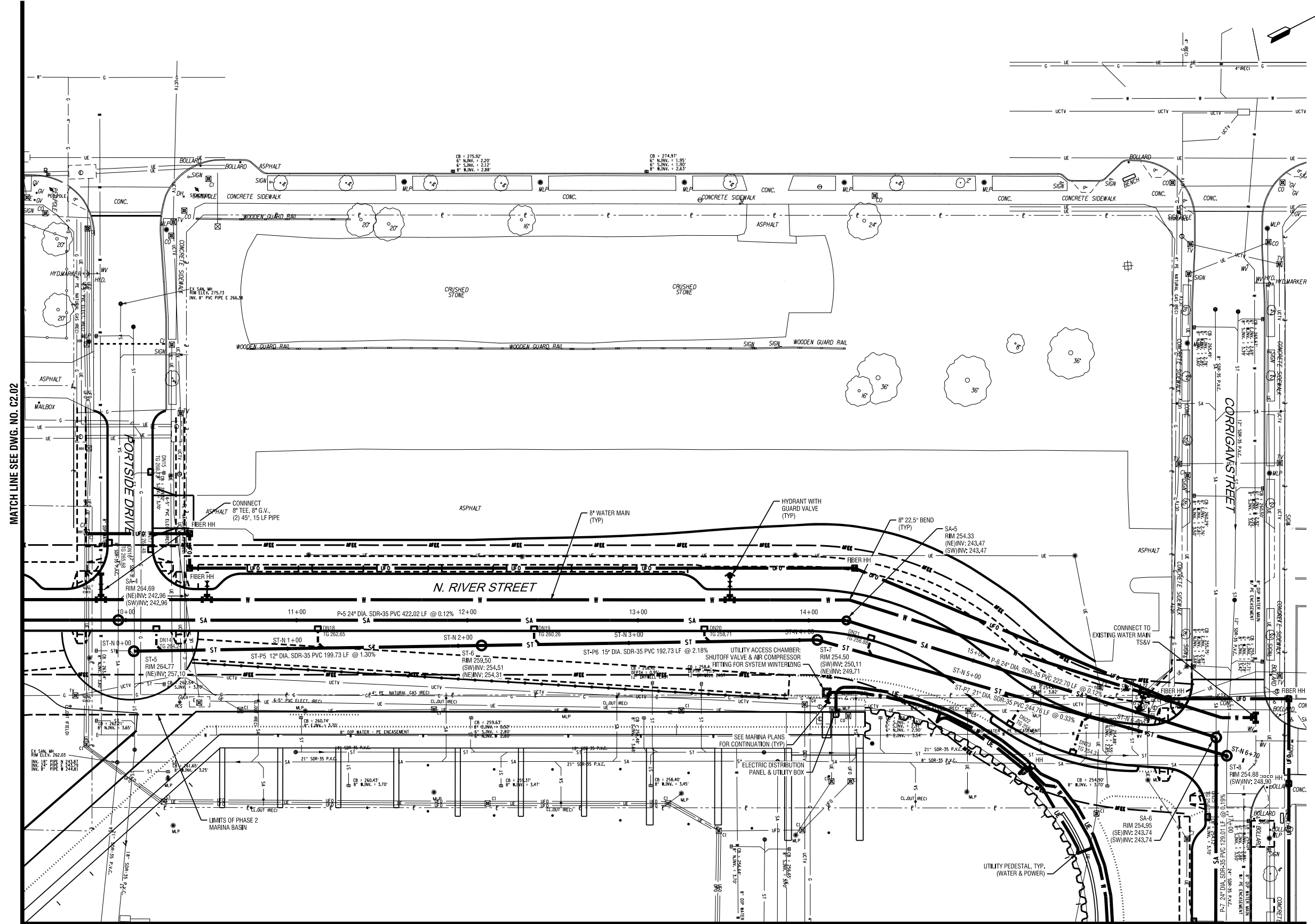
DRAWING TITLE

**UTILITY PLAN**

DATE:	MARCH 18, 2011
SCALE:	1" = 30'
DESIGNED BY:	
DRAWN BY:	
REVIEWED BY:	
PROJECT NUMBER:	210660

DRAWING NUMBER

**C2.04**



MATCH LINE SEE DWG. NO. C2.02

MATCH LINE SEE DWG. NO. C2.05

PLOT/DRAW: BW, hhh, phg  
MODEL: C2.04  
FILE: P:\11\Edgewater Resources LLP\210660 - Port Marina Drawings\Civil\Utility\Contract\dwg\C2.01-C2.05\Utility Plan.dgn  
DATE: 3/18/2011 3:05:53 PM



PROJECT/CLIENT

**PORT OF ROCHESTER  
MARINA DEVELOPMENT  
PROJECT**  
ROCHESTER, NY



City of Rochester

NO.	DATE	REVISION
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By a violation of New York Education Law Article 145 Sec. 2099, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way, if an item bearing the seal of an architect, engineer, or land surveyor is placed on the drawing, project, engineer, architect, or land surveyor shall file to the item that seal and indicate "altered" followed by their signature and date of such alteration, and a specific description of the alteration.  
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**50% DESIGN**

DRAWING TITLE

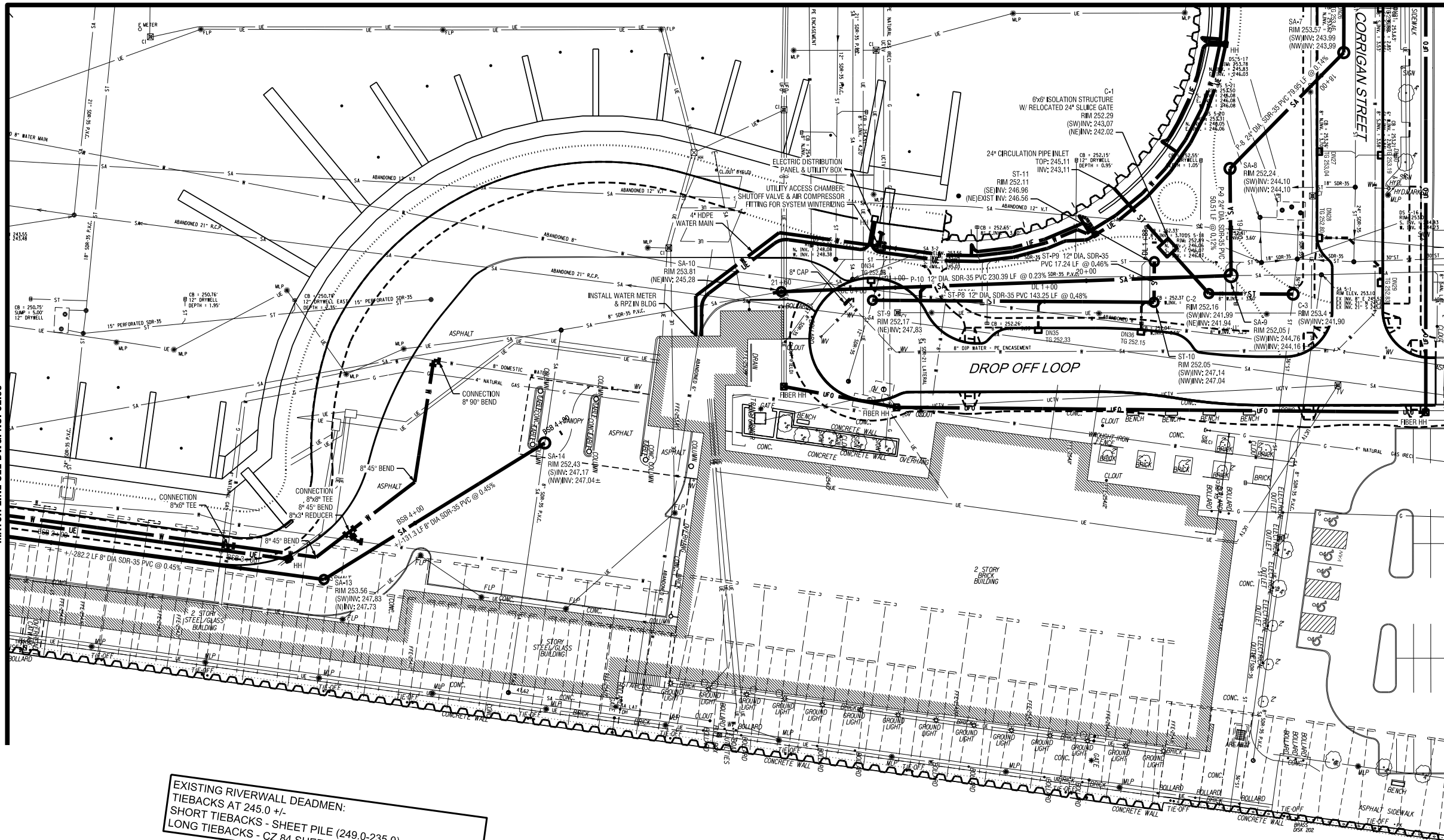
**UTILITY PLAN**

DATE:	MARCH 18, 2011
SCALE:	1" = 30'
DESIGNED BY:	
DRAWN BY:	
REVIEWED BY:	
PROJECT NUMBER:	210660

DRAWING NUMBER

**C2.05**

MATCH LINE SEE DWG. NO. C2.04



EXISTING RIVERWALL DEADMEN:  
TIEBACKS AT 245.0 +/-  
SHORT TIEBACKS - SHEET PILE (249.0-235.0)  
LONG TIEBACKS - CZ 84 SHEET PILE, 11' WIDE (251.75-227.0)

PLOT/DRAW: BW\_half.dwg  
 MODEL: C2.05  
 FILE PATH: C:\Edgewater Resources\LP\210660 - Port Marina Drawings\Civil\Utility\Contract\DWG\C2.05\_C2.05\_UTILITY\_PLAN.dwg  
 DATE/TIME: 3/17/2011 10:08:43 AM

MATCH LINE SEE DWG. NO. C3.02

PROJECT/CLIENT

**PORT OF ROCHESTER  
MARINA DEVELOPMENT  
PROJECT**  
ROCHESTER, NY



City of Rochester

NO.	DATE	REVISION
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This is a violation of New York Education Law Article 145 Sec. 7209, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way, if an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall file to the item their seal and notation "altered by" followed by their signature and size of such alteration, and a specific description of the alteration.  
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ISSUED FOR

**50% DESIGN**

DRAWING TITLE

**UTILITY PROFILES  
SANITARY SEWER**

DATE: MARCH 18, 2011

SCALE: 1" = 30'

DESIGNED BY:

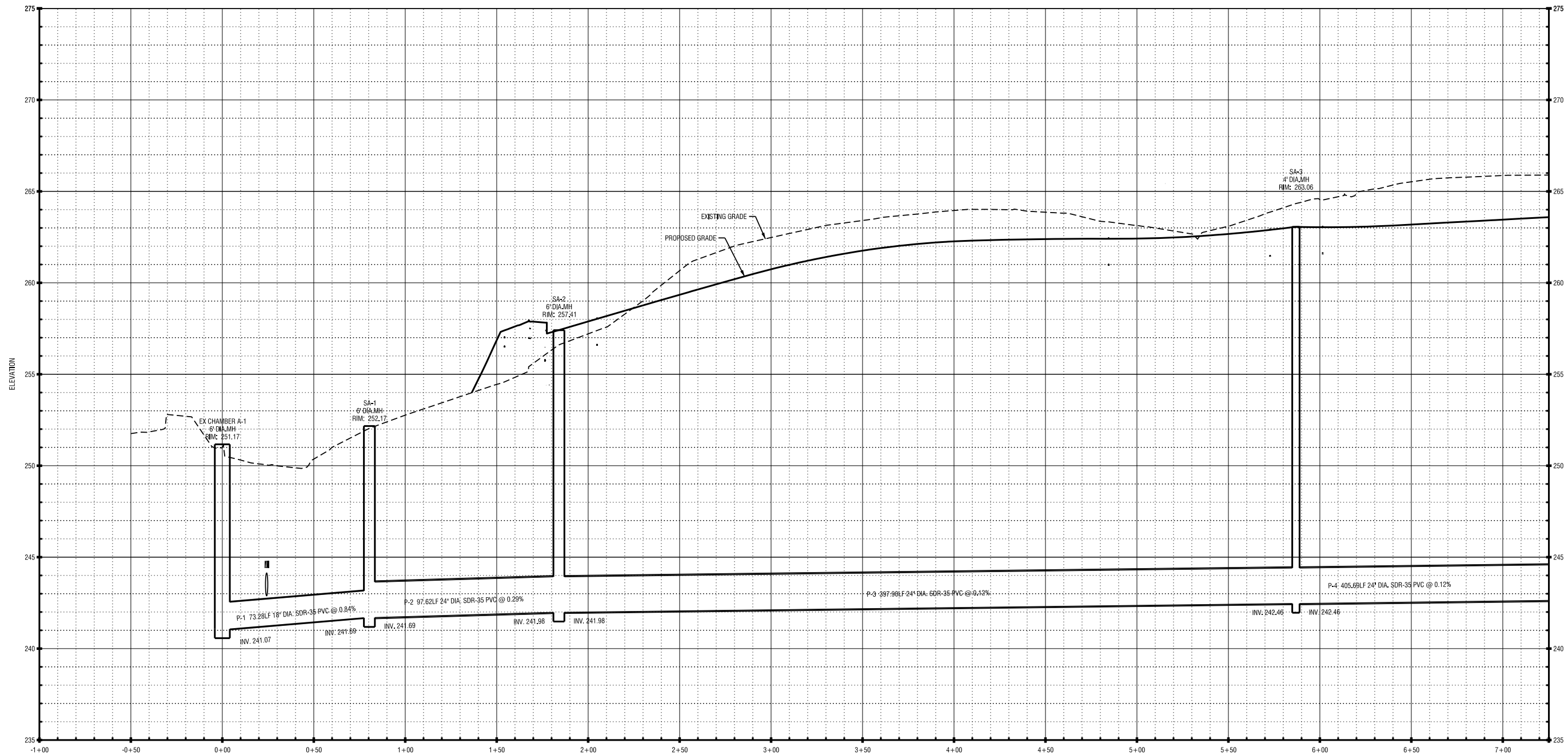
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REVIEWED BY:

PROJECT NUMBER: 210660

DRAWING NUMBER

**C3.01**



**PROFILE VIEW**

SCALE: HORIZ: 1" = 30'  
VERT: 1" = 3'

PROJECT/CLIENT

**PORT OF ROCHESTER  
MARINA DEVELOPMENT  
PROJECT**  
ROCHESTER, NY



City of Rochester

NO.	DATE	REVISION
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ISSUED FOR

**50% DESIGN**

DRAWING TITLE

**UTILITY PROFILES  
SANITARY SEWER**

DATE: MARCH 18, 2011

SCALE: 1" = 30'

DESIGNED BY:

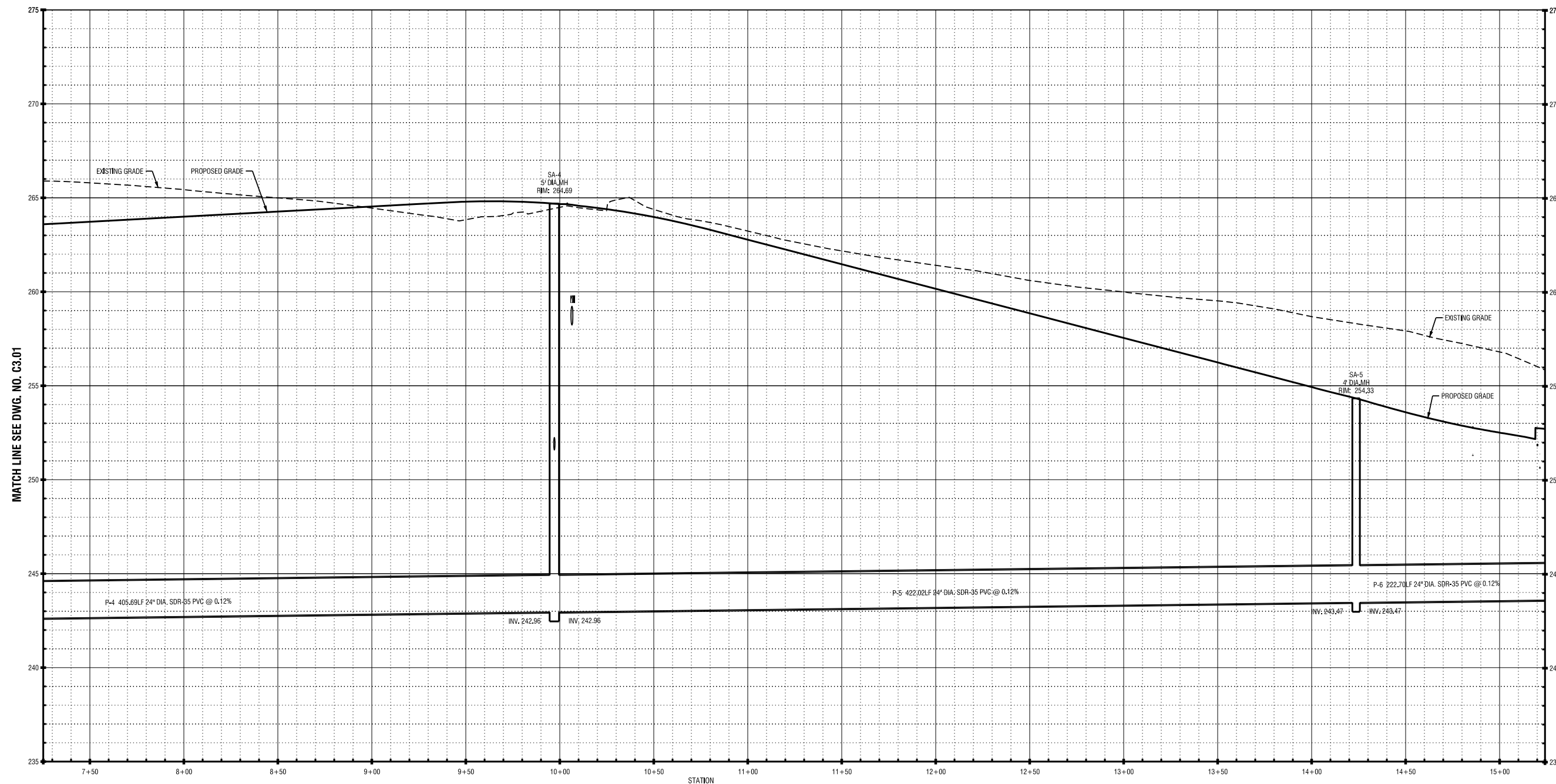
DRAWN BY:

REVIEWED BY:

PROJECT NUMBER: 210660

DRAWING NUMBER

**C3.02**



**PROFILE VIEW**

SCALE HORIZ: 1" = 30'  
VERT: 1" = 3'

MATCH LINE SEE DWG. NO. C3.01

MATCH LINE SEE DWG. NO. C3.03



PROJECT/CLIENT

**PORT OF ROCHESTER  
MARINA DEVELOPMENT  
PROJECT**  
ROCHESTER, NY



City of Rochester

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DRAWING TITLE

**UTILITY PROFILES  
SANITARY SEWER  
BOATER SERVICES**

DATE: MARCH 18, 2011

SCALE: 1" = 30'

DESIGNED BY:

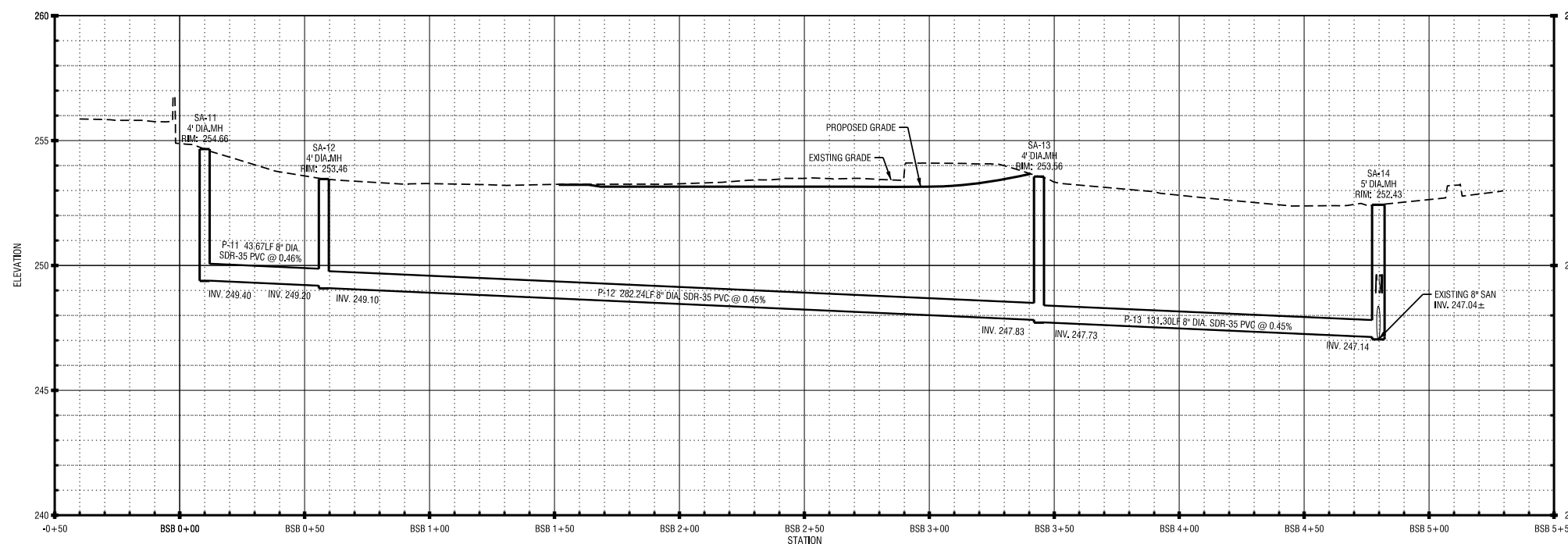
DRAWN BY:

REVIEWED BY:

PROJECT NUMBER: 210660

DRAWING NUMBER

**C3.04**



PLOTDRW: BW\_half.plt  
MODEL: C3\_04  
FILE: P:\210660 - Port Marina Drawings\Civil\Utility\Sanitary Profile.dwg  
DATE: TIME: 3/17/2011 8:08:08 PM

PROJECT/CLIENT

**PORT OF ROCHESTER  
MARINA DEVELOPMENT  
PROJECT**  
ROCHESTER, NY



City of Rochester

NO.	DATE	REVISION
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This is a violation of New York Education Law Article 145 Sec. 7209, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter in any way, or in any manner, the seal of an architect, engineer, or land surveyor in any drawing, plan, specification, report, or other document, or to alter, in any manner, the seal of an architect, engineer, or land surveyor in any drawing, plan, specification, report, or other document, or to alter, in any manner, the seal of an architect, engineer, or land surveyor in any drawing, plan, specification, report, or other document, or to alter, in any manner, the seal of an architect, engineer, or land surveyor in any drawing, plan, specification, report, or other document.

ISSUED FOR

**50% DESIGN**

DRAWING TITLE

**UTILITY PROFILES  
SOUTH STORM SEWER**

DATE: MARCH 18, 2011

SCALE: 1" = 30'

DESIGNED BY:

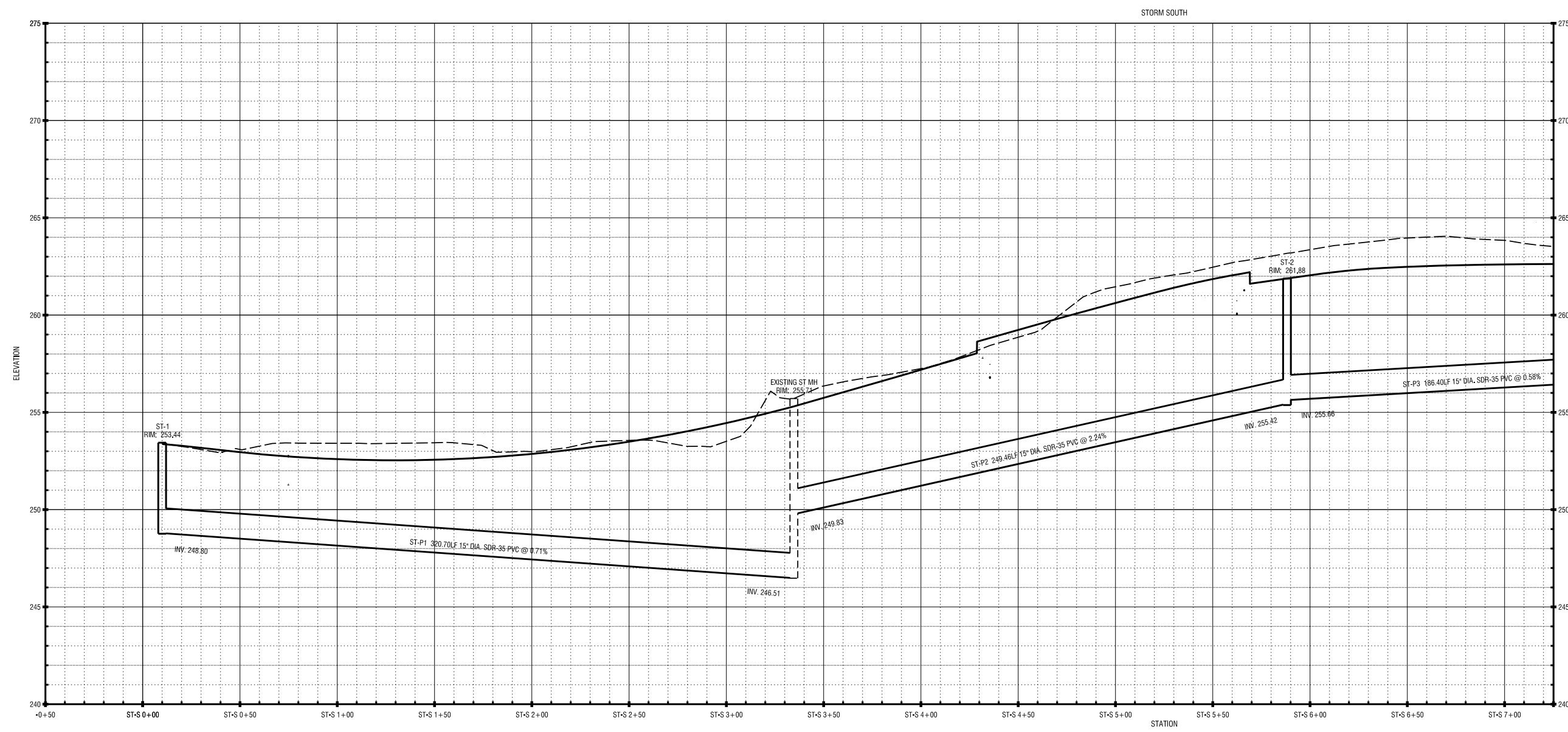
DRAWN BY:

REVIEWED BY:

PROJECT NUMBER: 210660

DRAWING NUMBER

**C3.05**



**PROFILE VIEW - SOUTH**

SCALE HORIZ: 1" = 30'  
VERT: 1" = 3'

PLOTDRW: BW\_half.plt  
 MODEL: C3.05  
 FILE: P:\Projects\Edgewater Resources\LP\210660 - Port Marina Drawings\Civil\Station\Contract.dwg\C3.05-C3.07 Utility Storm Profile.dgn  
 DATE: TIME: 3/17/2011 8:55:28 PM



PROJECT/CLIENT

**PORT OF ROCHESTER  
MARINA DEVELOPMENT  
PROJECT**  
ROCHESTER, NY



City of Rochester

NO.	DATE	REVISION
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DRAWING TITLE

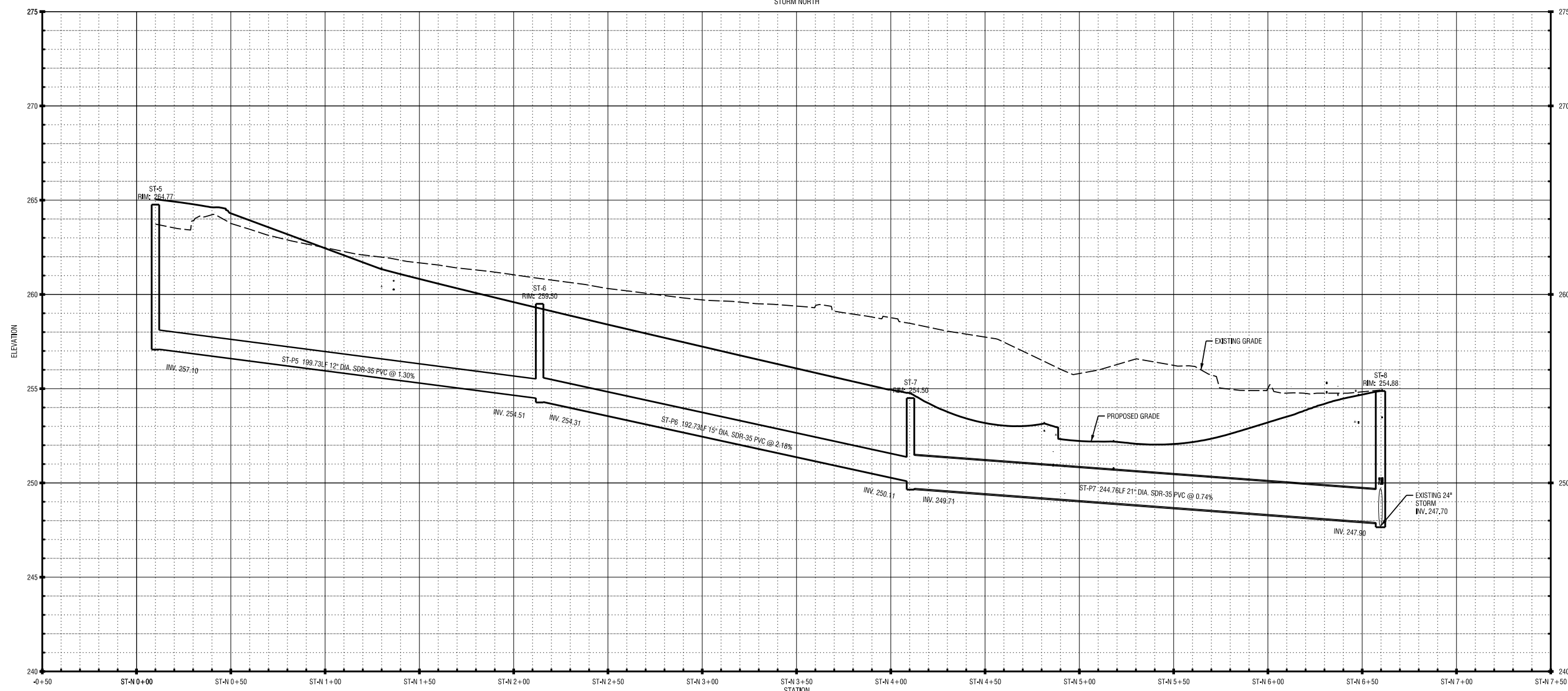
**UTILITY PROFILES  
NORTH STORM SEWER**

DATE:	MARCH 18, 2011
SCALE:	1" = 30'
DESIGNED BY:	
DRAWN BY:	
REVIEWED BY:	
PROJECT NUMBER:	210660

DRAWING NUMBER

**C3.07**

STORM NORTH



**PROFILE VIEW - NORTH**

SCALE HORIZ: 1" = 30'  
VERT: 1" = 3'

PLOTDRWA\_BW\_Hall.plt  
 C3.07  
 MODEL  
 FILE PATH: C:\Edgewater Resources\LP\210660 - Port Marina Drawings\Civil\Station\Contract.dwg\C3.07\_01.dwg  
 DATE TIME: 3/17/2011 8:05:57 PM



PROJECT/CLIENT

**PORT OF ROCHESTER  
MARINA DEVELOPMENT  
PROJECT**  
ROCHESTER, NY



City of Rochester

NO.	DATE	REVISION
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ISSUED FOR

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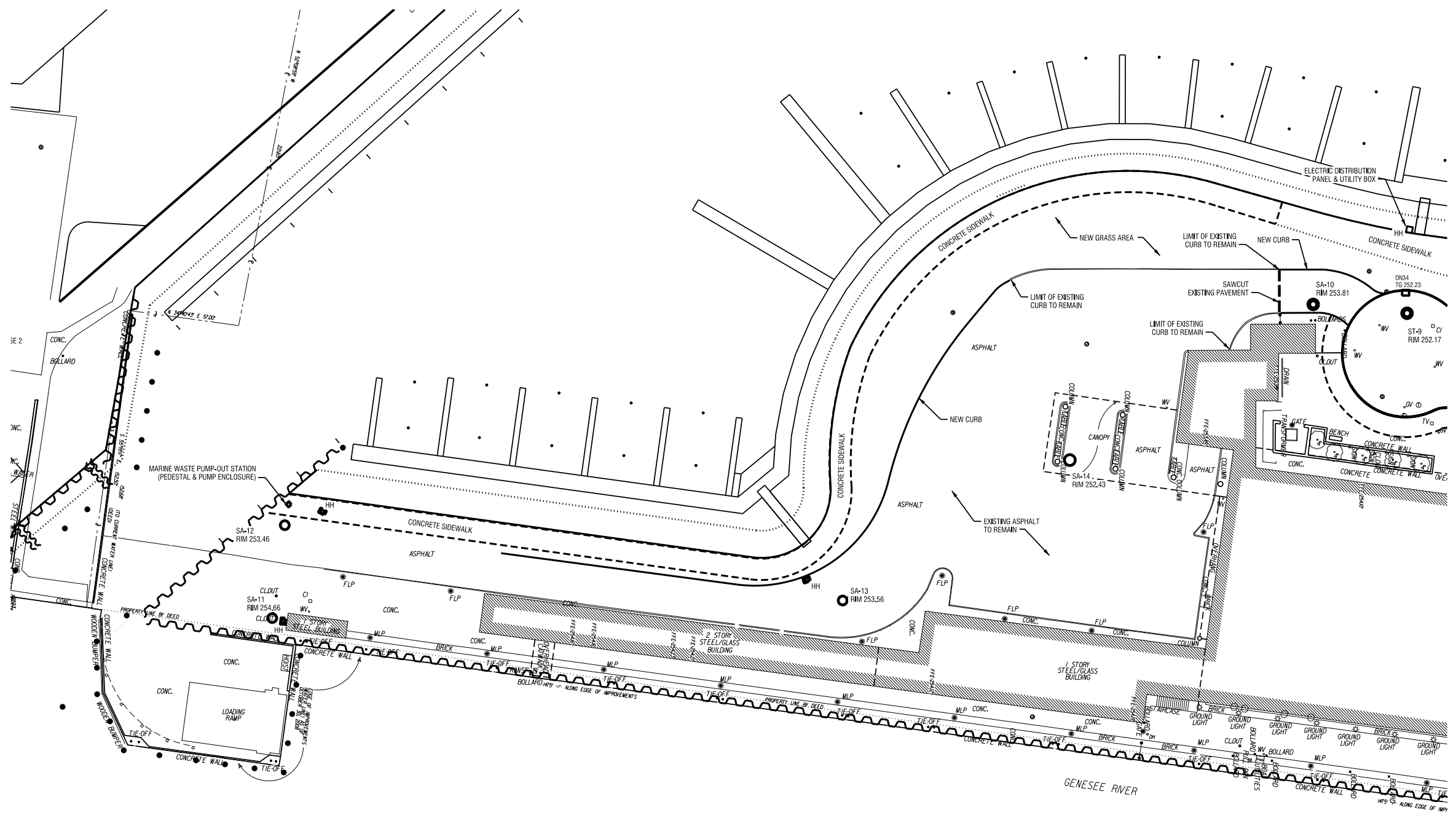
DRAWING TITLE

**SITE PLAN - BOATER  
SERVICES BLDG.**

DATE:	MARCH 18, 2011
SCALE:	1" = 30'
DESIGNED BY:	
DRAWN BY:	
REVIEWED BY:	
PROJECT NUMBER:	210660

DRAWING NUMBER

**C4.01**



PLOTDRW: BW\_half.dwg  
 MODEL: C4.01  
 FILE PATH: C:\Edgewater Resources\LP\210660 - Port Marina Drawings\Civil\Station\Contract.dwg\C4.01\_Site Plan Boater Services Bldg.dwg  
 DATE/TIME: 3/17/2011 10:52:53 PM





PROJECT/CLIENT

**PORT OF ROCHESTER  
MARINA DEVELOPMENT  
PROJECT  
ROCHESTER, NY**



City of Rochester

NO.	DATE	REVISION
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DRAWING TITLE

**CONSTRUCTION  
DETAILS  
STORM & SANITARY**

DATE: MARCH 18, 2011  
SCALE: NTS  
DESIGNED BY:  
DRAWN BY:  
REVIEWED BY:  
PROJECT NUMBER: 210660

DRAWING NUMBER

**C10.03**

**GENERAL UTILITY NOTES:**

EXISTING CONDITIONS ARE TAKEN FROM FIELD OBSERVATIONS AND PRIOR CONSTRUCTION DOCUMENTS WHEN AVAILABLE AND ARE NOT GUARANTEED. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BID. NO ALLOWANCE WILL BE MADE FOR ADDITIONAL COSTS DUE TO CONTRACTORS FAILURE TO VERIFY EXISTING CONDITIONS AND DIMENSIONS.

WHEN EXISTING CONSTRUCTION WHICH IS TO REMAIN IS DAMAGED DURING THE COURSE OF CONSTRUCTION AS A RESULT OF CONTRACTORS WORK, IT SHALL BE REPAIRED AND/OR REPLACED WITH SIMILAR OR LIKE MATERIALS AS MUCH AS POSSIBLE, SUBJECT TO OWNERS APPROVAL.

PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY DIG SAFELY NEW YORK AT 1-800-962-7962 TO REQUEST UTILITY STAKEOUT OF ALL PUBLIC UTILITIES.

PROTECT EXISTING UTILITIES TO REMAIN.

**MONROE COUNTY PURE WATERS  
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).

THE ROCHESTER PURE WATERS DISTRICT (RPWD) MUST RECEIVE THE FOLLOWING PRIOR TO GIVING NOTICE TO PROCEED WITH SEWER CONSTRUCTION:  
-A-

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 PURE 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 RPWD SHALL MAKE ALL FOUR AND SIX INCH DIAMETER TAPS TO THE RPWD SEWERS.

SANITARY/STORM/COMBINATION SEWER LATERAL(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.

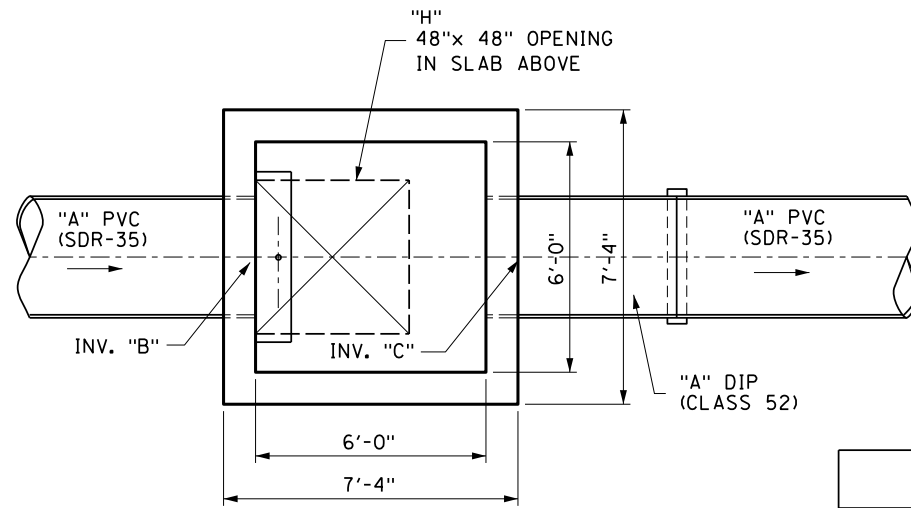
FLOOR DRAINS IF CONSTRUCTED, SHALL BE CONNECTED TO THE SANITARY/COMBINATION SEWER. FLOOR DRAINS DO NOT INCLUDE FOUNDATION/FOOTER DRAINS. NOTE: ALL DISCHARGES TO THE SANITARY/COMBINATION SEWER MUST COMPLY WITH THE EFFLUENT LIMITS OF THE LOCAL AND/OR MONROE COUNTY SEWER USE LAW.

ANY PORTION OF A SEWER/LATERAL WITH LESS THAN FOUR-FEET (4') OF COVER WILL REQUIRE CONCRETE ENCASUREMENT. 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.

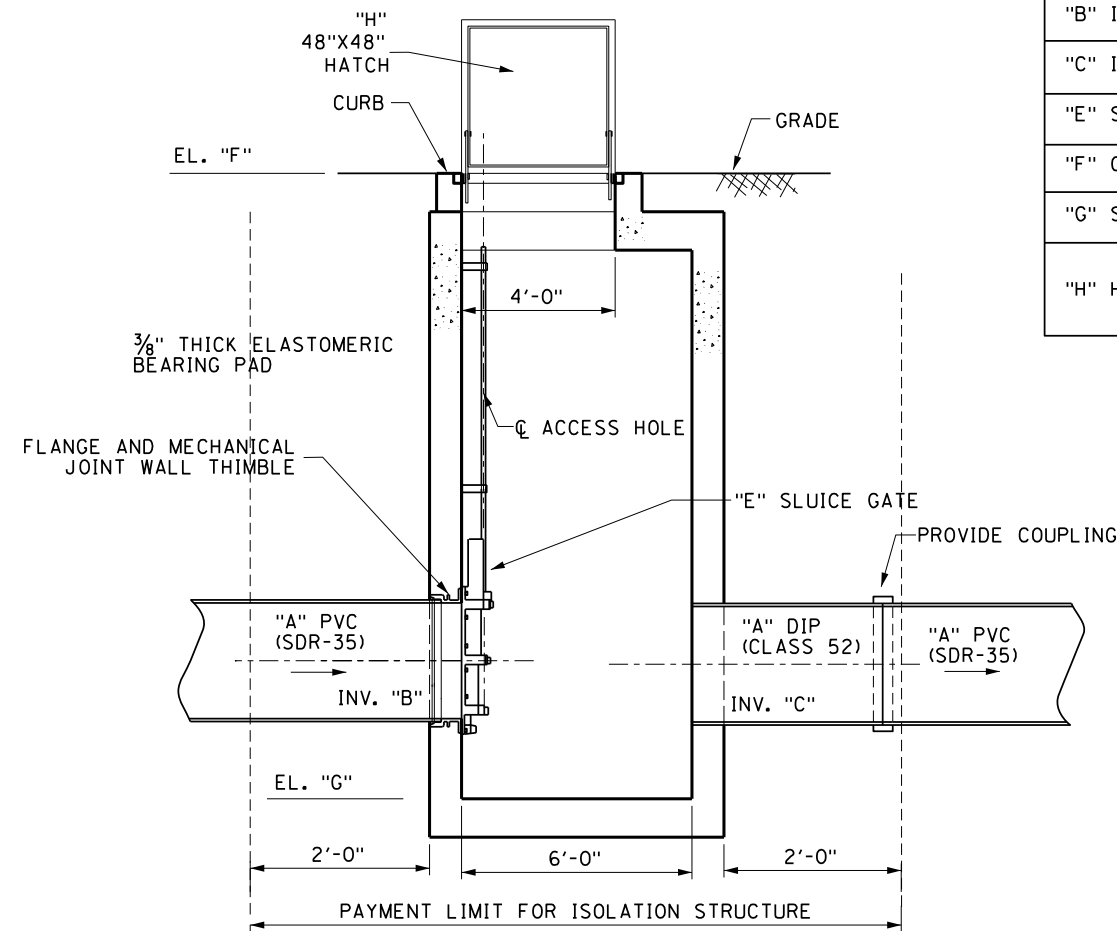
**SANITARY AND STORM SEWER NOTES:**

- LATERAL MATERIALS SHALL BE:
  - 4", 6" AND 8" PVC WITH INTEGRAL WALL AND BELL AND SPIGOT RUBBER-RING JOINTS AS MANUFACTURED BY J-M PIPE, OR APPROVED EQUIVALENT, WITH A MINIMUM WALL THICKNESS OF SDR-21.
  - CAST IRON
- SEWER MATERIALS SHALL BE:
  - WITHIN RIGHT OF WAYS = PVC WITH INTEGRAL WALL AND BELL AND SPIGOT RUBBER-RING JOINTS AS MANUFACTURED BY J-M PIPE, OR APPROVED EQUIVALENT, WITH A MINIMUM WALL THICKNESS OF SDR-21.
  - PRIVATE = PVC WITH INTEGRAL WALL AND BELL AND SPIGOT RUBBER-RING JOINTS AS MANUFACTURED BY J-M PIPE, OR APPROVED EQUIVALENT, WITH A MINIMUM WALL THICKNESS OF SDR-35
- ANY LATERALS ENCOUNTERED DURING EXCAVATIONS, WHICH ARE NOT DEPICTED ON THE CONSTRUCTION DOCUMENTS, SHALL BE REPORTED TO THE CONSTRUCTION MANAGER AND LABELLA ASSOCIATES.
- THE CONTRACTOR SHALL VERIFY EXISTING LATERALS PRIOR TO START OF UTILITY INSTALLATIONS AND IMMEDIATELY REPORT ANY DISCREPANCIES TO THE CONSTRUCTION MANAGER AND LABELLA ASSOCIATES IN WRITING. CONTRACTOR SHALL VERIFY MATERIALS, SIZES, INVERTS, AND CONDITION OF EACH PROPOSED CONNECTION.



PLAN

KEY	
	24" OUTLET
"A" PIPE SIZE	24"
"B" INV. IN	243.07
"C" INV. OUT	242.02
"E" SLUICE GATE	24"X24"
"F" GRADE ELEV.	252.29±
"G" SUMP INVERT	240.02
"H" HATCH	SYRACUSE CASTING DTD-15HD-H25 (BOLTED)



SECTION A-A

**STORM SEWER ISOLATION STRUCTURE**

PROJECT/CLIENT

**PORT OF ROCHESTER  
MARINA DEVELOPMENT  
PROJECT**  
ROCHESTER, NY



City of Rochester

NO.	DATE	REVISION
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**50% DESIGN**

DRAWING TITLE

**CONSTRUCTION  
DETAILS  
WATER MAIN**

DATE:	MARCH 18, 2011
SCALE:	NTS
DESIGNED BY:	
DRAWN BY:	
REVIEWED BY:	
PROJECT NUMBER:	210680
DRAWING NUMBER	

**C11.01**

**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 MAIN  
CROSSING BELOW  
SEWER PIPE**

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

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

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

**CITY OF ROCHESTER  
HORIZONTAL  
THRUST BLOCK  
DOMESTIC SYSTEM**

ISSUED 1-13-06 NON-STANDARD  
REVISED 11-22-10 DWG.NO.S900-4

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 KEYPED 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.

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

**CITY OF ROCHESTER  
VERTICAL  
THRUST BLOCK  
DOMESTIC SYSTEM**

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

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  
DISINFECTION  
SAMPLING TAP**

ISSUED 1-13-06 NON-STANDARD  
REVISED 11-22-10 DWG.NO.S900-6

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.

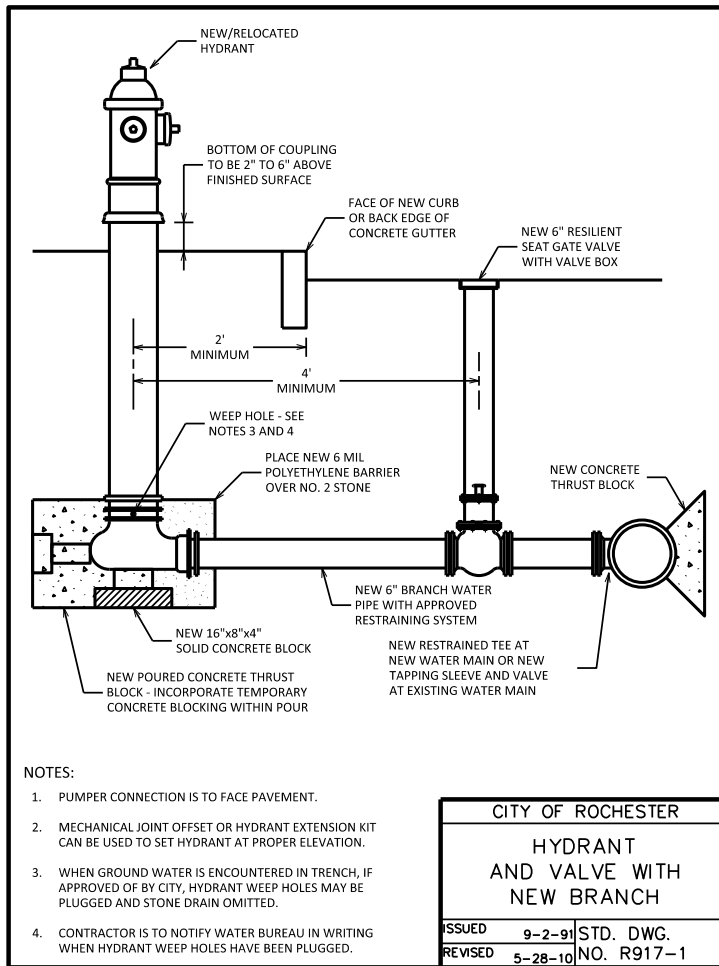
PIPE SIZE (INCHES)	MINIMUM LENGTH	MINIMUM RESTRAINED LENGTH FOR WATER MAIN PIPE ADJACENT TO FITTINGS (IN FEET) (BASED ON INTERNAL PRESSURE OF 150 PSI) (SEE NOTE 1)						
		90°	45°	22-1/2°	11-1/4°	REDUCER	TEE	CAP PLUG
4" - 6"	L	16	7	3	2	29	16	56
	LHS	49	24	12	6	---	---	---
8"	L	16	6	3	2	---	---	---
	LHS	20	9	4	2	31	33	74
12"	L	20	8	4	2	---	---	---
	LHS	28	12	6	3	56	64	105
12"	L	91	44	21	11	---	---	---
	LLS	28	11	5	3	---	---	---

**CITY OF ROCHESTER  
WATER MAIN PIPE  
RESTRAINT  
DOMESTIC SYSTEM**

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

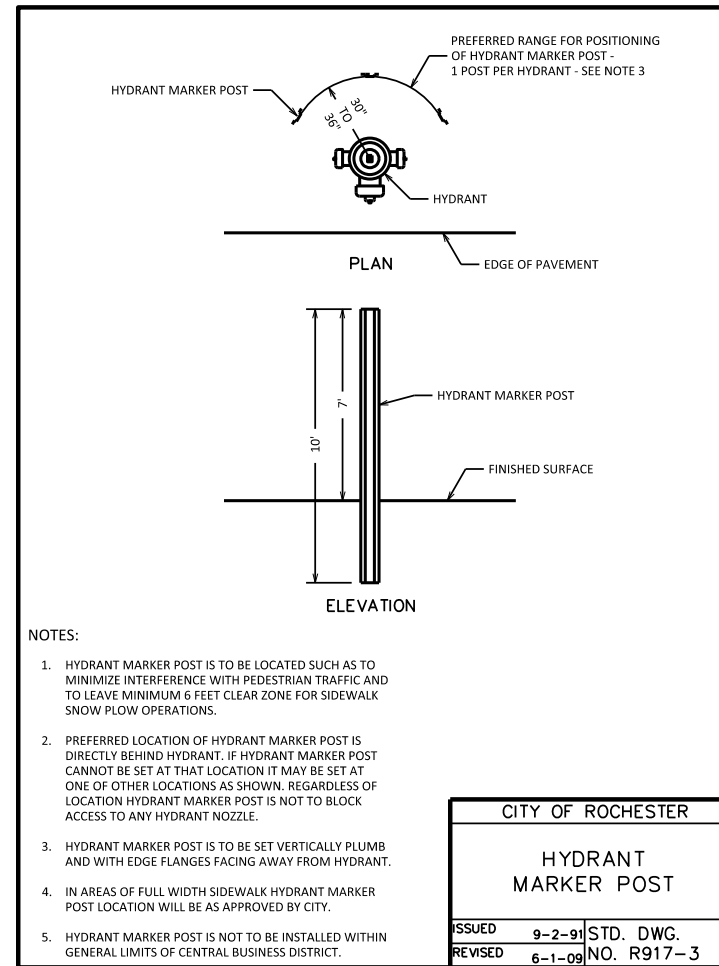
NOTES:  
1. SPECIAL DESIGN IS REQUIRED FOR FITTINGS ON DOMESTIC WATER MAIN PIPE LARGER THAN 12 INCHES AND FOR REDUCERS HAVING MORE THAN ONE PIPE SIZE DIFFERENCE.  
2. CONCRETE THRUST BLOCK IS TO BE USED IN ADDITION TO MECHANICAL RESTRAINT DEVICES, SEE DETAILS S900-4 AND S900-5.  
3. ALL PLASTIC AND POLYETHYLENE 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.

PLOT/DRAW: BW\_Hall/ptg  
 MODEL: C11.01  
 FILE: P:\Edgewater Resources\LLP\210680 - Port Marina Drawings\Civil\Installation\Contract.dwg\10.01-C11.01 Construction Details.dgn  
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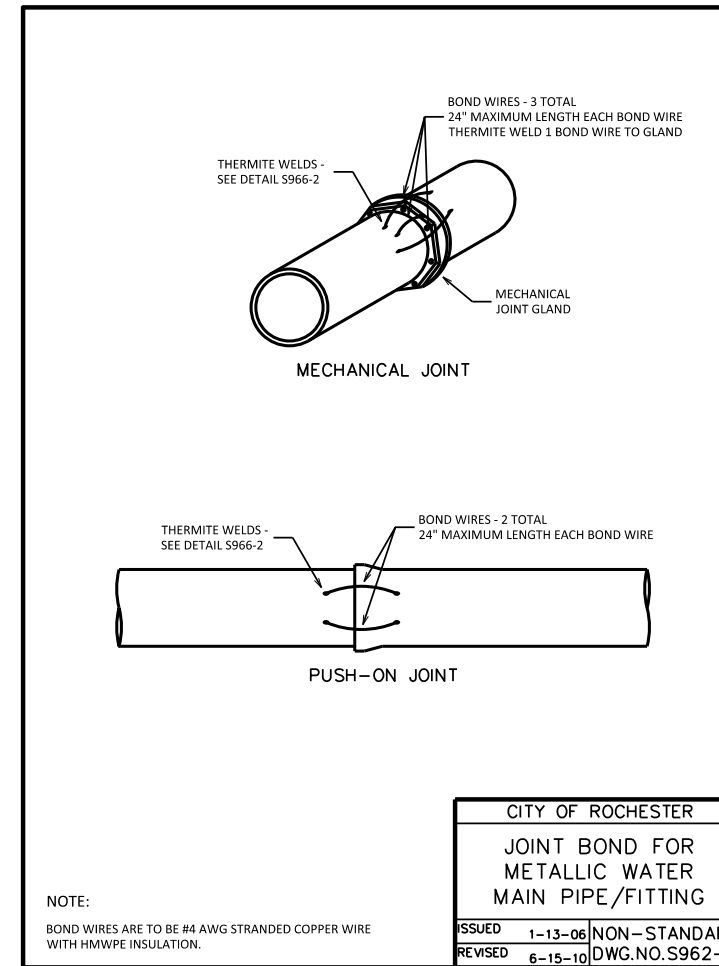
- NOTES:
- PUMPER CONNECTION IS TO FACE PAVEMENT.
  - MECHANICAL JOINT OFFSET OR HYDRANT EXTENSION KIT CAN BE USED TO SET HYDRANT AT PROPER ELEVATION.
  - WHEN GROUND WATER IS ENCOUNTERED IN TRENCH, IF APPROVED OF BY CITY, HYDRANT WEEP HOLES MAY BE PLUGGED AND STONE DRAIN OMITTED.
  - CONTRACTOR IS TO NOTIFY WATER BUREAU IN WRITING WHEN HYDRANT WEEP HOLES HAVE BEEN PLUGGED.

CITY OF ROCHESTER	
HYDRANT AND VALVE WITH NEW BRANCH	
ISSUED	9-2-91 STD. DWG.
REVISED	5-28-10 NO. R917-1



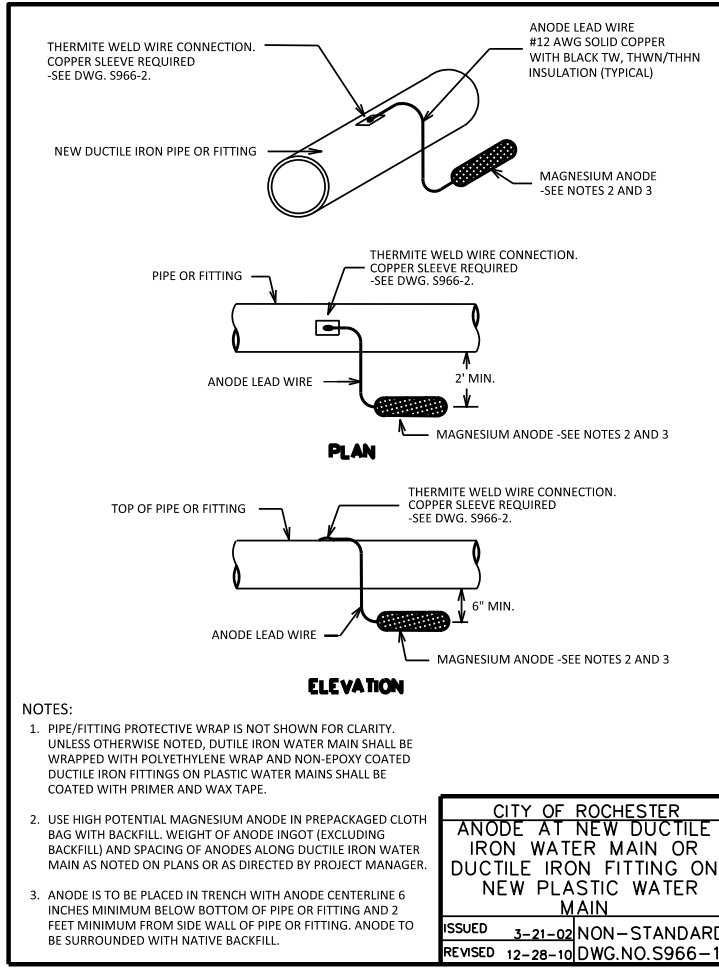
- NOTES:
- HYDRANT MARKER POST IS TO BE LOCATED SUCH AS TO MINIMIZE INTERFERENCE WITH PEDESTRIAN TRAFFIC AND TO LEAVE MINIMUM 6 FEET CLEAR ZONE FOR SIDEWALK SNOW PLOW OPERATIONS.
  - PREFERRED LOCATION OF HYDRANT MARKER POST IS DIRECTLY BEHIND HYDRANT. IF HYDRANT MARKER POST CANNOT BE SET AT THAT LOCATION IT MAY BE SET AT ONE OF OTHER LOCATIONS AS SHOWN. REGARDLESS OF LOCATION HYDRANT MARKER POST IS NOT TO BLOCK ACCESS TO ANY HYDRANT NOZZLE.
  - HYDRANT MARKER POST IS TO BE SET VERTICALLY PLUMB AND WITH EDGE FLANGES FACING AWAY FROM HYDRANT.
  - IN AREAS OF FULL WIDTH SIDEWALK HYDRANT MARKER POST LOCATION WILL BE AS APPROVED BY CITY.
  - HYDRANT MARKER POST IS NOT TO BE INSTALLED WITHIN GENERAL LIMITS OF CENTRAL BUSINESS DISTRICT.

CITY OF ROCHESTER	
HYDRANT MARKER POST	
ISSUED	9-2-91 STD. DWG.
REVISED	6-1-09 NO. R917-3



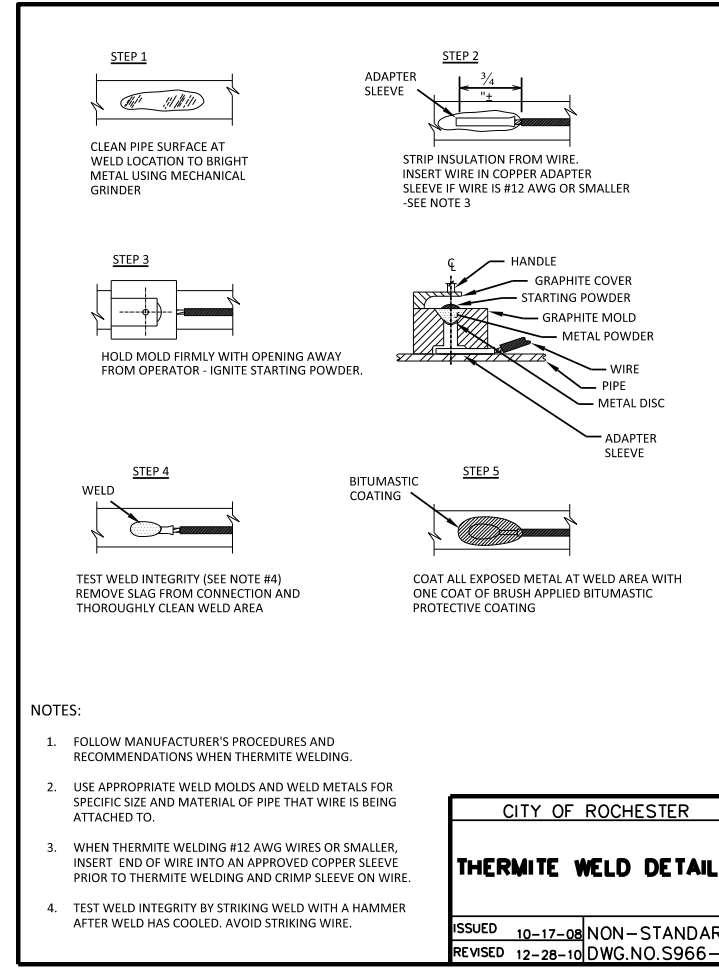
NOTE:  
BOND WIRES ARE TO BE #4 AWG STRANDED COPPER WIRE WITH HMWPE INSULATION.

CITY OF ROCHESTER	
JOINT BOND FOR METALLIC WATER MAIN PIPE/FITTING	
ISSUED	1-13-06 NON-STANDARD
REVISED	6-15-10 DWG.NO.S962-1



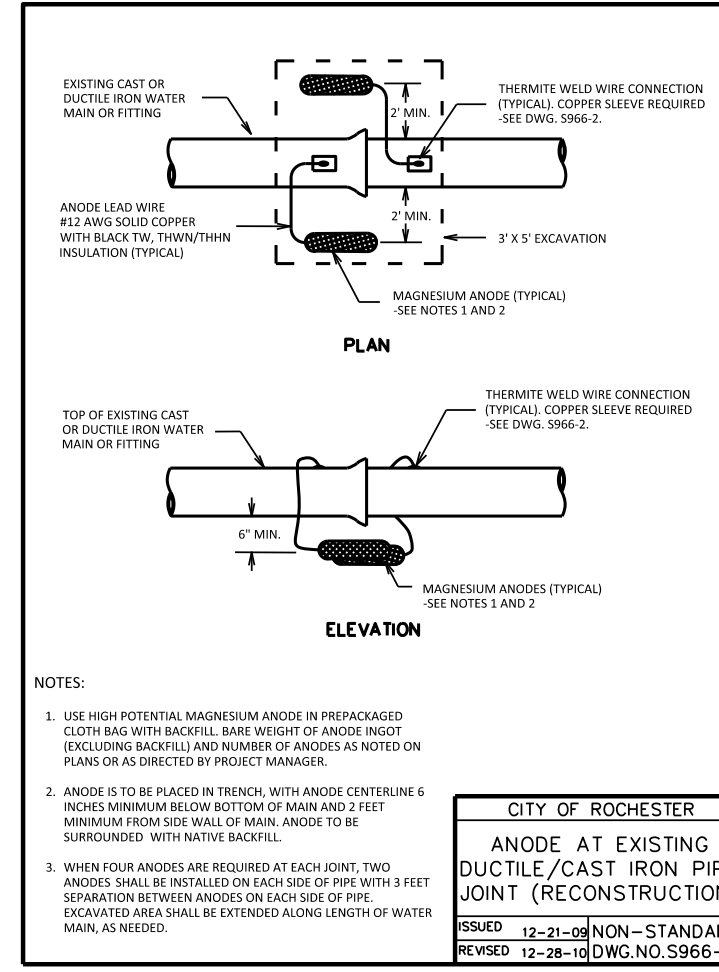
- NOTES:
- PIPE/FITTING PROTECTIVE WRAP IS NOT SHOWN FOR CLARITY. UNLESS OTHERWISE NOTED, DUCTILE IRON WATER MAIN SHALL BE WRAPPED WITH POLYETHYLENE WRAP AND NON-EPOXY COATED DUCTILE IRON FITTINGS ON PLASTIC WATER MAINS SHALL BE COATED WITH PRIMER AND WAX TAPE.
  - USE HIGH POTENTIAL MAGNESIUM ANODE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



- 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:
- USE HIGH POTENTIAL MAGNESIUM ANODE IN PREPACKAGED CLOTH BAG WITH BACKFILL. BARE WEIGHT OF ANODE INGOT (EXCLUDING BACKFILL) AND NUMBER OF ANODES 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 MAIN AND 2 FEET MINIMUM FROM SIDE WALL OF MAIN. ANODE TO BE SURROUNDED WITH NATIVE BACKFILL.
  - WHEN FOUR ANODES ARE REQUIRED AT EACH JOINT, TWO ANODES SHALL BE INSTALLED ON EACH SIDE OF PIPE WITH 3 FEET SEPARATION BETWEEN ANODES ON EACH SIDE OF PIPE. EXCAVATED AREA SHALL BE EXTENDED ALONG LENGTH OF WATER MAIN, AS NEEDED.

CITY OF ROCHESTER	
ANODE AT EXISTING DUCTILE/CAST IRON PIPE JOINT (RECONSTRUCTION)	
ISSUED	12-21-09 NON-STANDARD
REVISED	12-28-10 DWG.NO.S966-5

PROJECT/CLIENT

PORT OF ROCHESTER MARINA DEVELOPMENT PROJECT  
ROCHESTER, NY



City of Rochester

NO.	DATE	REVISION
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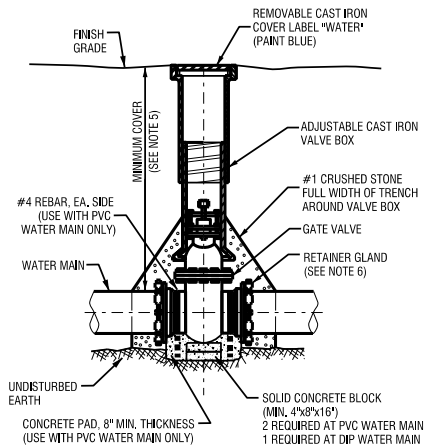
ISSUED FOR

50% DESIGN

DRAWING TITLE

CONSTRUCTION DETAILS WATER MAIN

DATE:	MARCH 18, 2011
SCALE:	NTS
DESIGNED BY:	
DRAWN BY:	
REVIEWED BY:	
PROJECT NUMBER:	210680
DRAWING NUMBER	



- NOTES:
1. VALVE BOX SHALL BE CENTERED ON VALVE AND SET ON COMPACTED BACKFILL.
  2. VALVE SHALL NOT SUPPORT VALVE BOX.
  3. BODY AND BONNET BOLTS SHALL BE STAINLESS STEEL.
  4. VALVES SHALL BE OPEN LEFT.
  5. MINIMUM COVER SHALL BE AS SHOWN ON WATER MAIN TRENCH DETAIL.
  6. RETAINER GLANDS NOT REQUIRED AT HYDRANT GUARD VALVES. GUARD VALVES SHALL BE RESTRAINED WITH ANCHOR PIPE.
  7. REFER TO PLANS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

MJ GATE VALVE

NOTES:

- T-BOLT AND NUTS SHALL BE: FLUOROCARBON COATED, BLUE, BY BIRMINGHAM FASTENER MANUFACTURING OR COR-BLUE BY NSS INDUSTRIES PER "CITY SPEC S900"
- 22.5 DEGREE ELBOWS MJ X MJ SHALL BE: FULL BODY AWWA C110 OR COMPACT AWWA C153 SBR GASKETS EPOXY COATED OR DOUBLE THICKNESS CEMENT MORTAR LINING WITH ASPHALT COATING PER "CITY SPEC S901"
- TYTON JOINT PIPE SHALL BE: CLASS 56 DOUBLE THICKNESS CEMENT LINES ASPHALT COATED SBR GASKETS, PER "CITY SPEC S901"
- RESTRAINT DEVICE ON ALL CONNECTIONS SHALL BE: MEGALUG SERIES 1100 OR UNIFLANGE 1400 WITH FUSION BONDED EPOXY COATING BODY AND GLANDS FLUOROCARBON COATED HARDWARE PER "CITY SPEC S900"
- GATE VALVE MJ X MJ SHALL BE: RESILIENT WEDGE AWWA C509 OPEN RIGHT STAINLESS STEEL BONNET BOLTS & NUTS GLANDS HARDWARE TO BE FLUOROCARBON COATED PER "CITY SPEC S903"
- PIPE SAND BEDDING IN ACCORDANCE WITH DETAIL S900-2.
- TRENCH BACKFILL ABOVE PIPE ENVELOPE SELECT GRANULAR FILL IN 8" COMPACTED LIFT " #1 CRUSHER RUN STONE".

WATER MAIN AND SERVICE NOTES:

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 FOUR (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. THE MONROE COUNTY DEPARTMENT OF PUBLIC HEALTH (MCDPH) MUST RECEIVE AT LEAST 48-HOUR ADVANCE NOTIFICATION REQUESTING SAMPLING SERVICES. THE CONTRACTOR SHALL CALL 685-753-5057 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 UNDER SECTION 7208(9)) 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 AND BYPASS PIPE SHALL NOT BE PLACED INTO SERVICE UNTIL SO AUTHORIZED BY THE MCDPH.

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.

WHEN INSTALLING FIRE HYDRANTS, SHOULD GROUND WATER BE ENCOUNTERED WITHIN SEVEN (7) FEET OF FINISHED GRADE, FIRE HYDRANT WEEP HOLES (DRAINS) SHALL BE PLUGGED.

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.

ALL NEW WATER MAINS SHALL BE INSTALLED WITH A MINIMUM COVER DEPTH FROM PROPOSED FINISHED GRADE OF 4.5 FEET FOR DOMESTIC MAINS AND 5.0 FEET FOR HOLLY MAINS.

THE ROCHESTER WATER BUREAU REQUIRES THAT A HYDRANT USE PERMIT BE OBTAINED BY THE CONTRACTOR PRIOR TO USING ANY HYDRANT AS A SOURCE OF WATER SUPPLY. THE PERMIT REQUIRES THE USE OF A WATER METER AND A BACKFLOW PREVENTER. THE WATER BUREAU WILL SUPPLY A WATER METER AND BACKFLOW PREVENTER WITH THE PERMIT. THE PERMIT FEE INCLUDES A REFUNDABLE DEPOSIT FOR THE USE OF THE WATER METER AND BACKFLOW PREVENTER.

FOR EXISTING VALVES AND CURB STOPS THAT ARE LOCATED ON WATER MAINS AND WATER SERVICES WHICH ARE TO BE RETAINED, THE EXISTING VALVE AND CURB BOXES SHALL BE ADJUSTED TO GRADE OR REPLACED AS SHOWN ON THE PLANS OR DIRECTED BY THE PROJECT MANAGER.

FOR ALL ABANDONED WATER MAIN AND HYDRANT BRANCHES, THE CONTRACTOR SHALL PLUG ALL CUT AND OPEN ENDS WITH 12-INCHES OF CONCRETE. THE CONTRACTOR SHALL LEAVE ABANDONED MAIN LINE, HYDRANT BRANCH AND SERVICE VALVES IN THE CLOSED POSITION.

THE CONTRACTOR SHALL EXERCISE CAUTION WHEN WORKING NEAR WATER MAINS WHICH ARE TO BE RETAINED. NO MBRATORY EQUIPMENT IS TO BE USED OVER OR ADJACENT TO EXISTING WATER MAINS.

APPROPRIATE MEASURES SHALL BE TAKEN TO PREVENT DIRT, DEBRIS, SURFACE AND GROUND WATER FROM CONTAMINATING THE WATER MAIN. THE WATER LEVEL IN THE EXCAVATION AT OPEN PIPE ENDS SHALL NEVER BE LESS THAN 12 INCHES BELOW THE INVERT OF THE WATER MAIN. WHENEVER AN OPEN PIPE END IS LEFT UNATTENDED, IT SHALL BE COVERED IN A WATER TIGHT MANNER.

ALL GATE VALVES REQUIRE MECHANICAL JOINT RESTRAINT WITHIN 18- FEET OF THE VALVE.

ALL NEW DUCTILE IRON WATER MAIN SHALL BE INSTALLED WITH POLYETHYLENE ENCASEMENT.

ALL SERVICE TAPS ON PVC/PVCO WATER MAIN REQUIRE SERVICE SADDLES.

STAINLESS STEEL INSERTS ARE REQUIRED ON ALL POLYETHYLENE (PE) SERVICE FITTINGS.

TRACER WIRE IS REQUIRED ON ALL BURIED NON-METALLIC WATER MAINS AND WATER SERVICES.

PROJECT/CLIENT

PORT OF ROCHESTER  
MARINA DEVELOPMENT  
PROJECT  
ROCHESTER, NY



City of Rochester

NO.	DATE	REVISION
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DRAWING TITLE

CONSTRUCTION  
DETAILS  
WATER MAIN

DATE:	MARCH 18, 2011
SCALE:	NTS
DESIGNED BY:	
DRAWN BY:	
REVIEWED BY:	
PROJECT NUMBER:	210660

DRAWING NUMBER

C11.03