



**McGOEY, HAUSER and EDSALL
CONSULTING ENGINEERS D.P.C.**

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MICHAEL W. WEEKS, P.E. (NY, NJ & PA)
MICHAEL J. LAMOREAUX, P.E. (NY, NJ, PA, VT & VA)
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PATRICK J. HINES

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New Windsor, New York 12553

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Principal Emeritus:
RICHARD D. McGOEY, P.E. (NY & PA)
WILLIAM J. HAUSER, P.E. (NY, NJ & PA)

**TOWN OF NEWBURGH
PLANNING BOARD
TECHNICAL REVIEW COMMENTS**

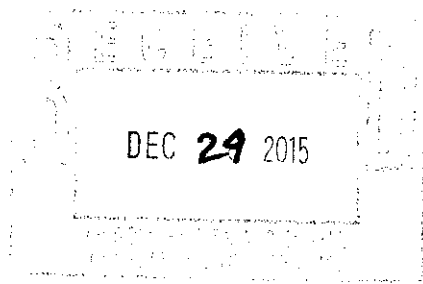
PROJECT: SUMMIT LANE EXPANSION
PROJECT NO.: 15-18
PROJECT LOCATION: SECTION 97, BLOCK 1, LOTS 47 & 48
REVIEW DATE: 29 JANUARY 2016
MEETING DATE: 4 FEBRUARY 2016
PROJECT REPRESENTATIVE: JMC CONSULTING

1. Status of Zoning Board of Appeals approval should be discussed with the Planning Board.
2. City of Newburgh Flow Acceptance letter is required to Planning Board action.
3. The Applicant's representative are performing additional infiltration testing in the area of the proposed Stormwater Management facility. Final results of this should be added to the plans.
4. Previous changes requested for the site plan have been incorporated into the plan sheets. Slight modifications to the grading and Stormwater were provided based on response to comments.
5. Planning Board should determine whether a Public Hearing will be held for this project.

Respectfully submitted,

***McGoey, Hauser and Edsall
Consulting Engineers, D.P.C.***

Patrick J. Hines
Principal

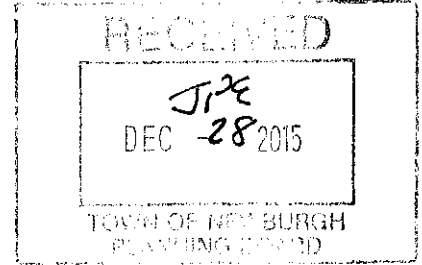


Site Planning
 Civil Engineering
 Landscape Architecture
 Land Surveying
 Transportation Engineering

Environmental Studies
 Entitlements
 Construction Services
 3D Visualization
 Laser Scanning

December 07, 2015

Mr. Lee S. Bergus, P.E.
 Senior Public Health Engineer
 Orange County Department of Health
 124 Main Street
 Goshen, NY 10924



RE: JMC Project 14136
 Summit Lane at Newburgh Expansion
 Stewart Avenue
 Town of Newburgh

Water Distribution System

Dear Mr. Bergus:

We are pleased to submit one copy of the following documents for your review and approval of a private water distribution system to serve the proposed Summit Lane at Newburgh expansion development:

1. JMC drawings:

<u>Dwg. No.</u>	<u>Title</u>	<u>Rev. #/Date</u>
SP-H1	"Cover Sheet"	12/07/2015
SP-4	"Grading Plan"	1. 10/20/2015
SP-5	"Utilities Plan"	1. 10/20/2015
SP-9	"Utility Profiles"	07/24/2015
SP-W1	"Water Main Details"	12/07/2015

- "Engineering Report," dated 12/07/2015, prepared by JMC.
- New York State Department of Health DOH348 application.
- DRA Fidelco Newburgh, LLC Check No. 14217, in the amount of \$200.00, dated 12/08/2015.

As discussed, the proposed development proposes 29 rental apartments in 2 buildings and one existing family lease will be served by a private water main and private sewer system. The Summit Lane at Newburgh Expansion development received Preliminary Site Plan Approval and construction is anticipated to begin in Spring of 2016.

Upon your review of the water distribution system, we will be available to meet and answer any questions you might have.

Sincerely,


JMC Planning Engineering Landscape Architecture & Land Surveying, PLLC



Umberto Baldinucci
Senior Designer

cc: Chairman Ewasutyn and Members of the Planning Board, w/enc.
Mr. James W. Osborne, PE, w/enc.
Mr. Mike Blum, w/enc.
Mr. Nicholas Minoia, w/enc.

F:\2014\14136\vtBergus 12-07-2015 .docx

Applicant DRA Fidelco Newburgh, LLC	Location of works (C,V,T) Town of Newburgh	County Orange	Water District (specific area served) Town of Newburgh (Summit Lane at Expansion)
Type of ownership <input type="checkbox"/> Municipal <input type="checkbox"/> Commercial <input checked="" type="checkbox"/> Private - Other <input type="checkbox"/> Authority <input type="checkbox"/> Interstate <input type="checkbox"/> Industrial <input type="checkbox"/> Water Works Corp. <input type="checkbox"/> Private - Institutional <input type="checkbox"/> Federal <input type="checkbox"/> International <input type="checkbox"/> Board of Education <input type="checkbox"/> State <input type="checkbox"/> Native American Reservation			
<input checked="" type="checkbox"/> Modifications to existing system. If checked, provide PWS ID # NY 3 5 0 3 5 7 8			
New System. If checked, provide capacity development (viability) analysis*			
If this project involves a new system, new water district, or a district extension provide boundary description location details in digital format on CD or Floppy Disk. If digital boundary location details are not available provide a text description. <input type="checkbox"/> Digital GIS Data Provided <input type="checkbox"/> Digital CAD Data Provided <input type="checkbox"/> Other Digital Data Provided <input type="checkbox"/> Text Description Provided <input checked="" type="checkbox"/> N/A			
Funding Source <input checked="" type="checkbox"/> Private <input type="checkbox"/> DWSRF** <input type="checkbox"/> Federal <input type="checkbox"/> Other _____ If DWSRF is checked, provide DWSRF # _____			
Estimated Project Cost Source \$ _____ Treatment \$ _____ Storage \$ _____ Distribution \$ 30,000 Pumping \$ _____ Engineering \$ _____ Legal/Permitting \$ _____ Total \$ 30,000			
Type of Project <input type="checkbox"/> Source <input type="checkbox"/> Corrosion Control <input type="checkbox"/> U.V. Light Disinfection <input checked="" type="checkbox"/> Distribution <input type="checkbox"/> Transmission <input type="checkbox"/> Pumping Unit <input type="checkbox"/> Fluoridation <input type="checkbox"/> Storage <input type="checkbox"/> Chlorination <input type="checkbox"/> Other Treatment <input type="checkbox"/> Other			
Project Description: Private 6" ductile iron water main extension 328 feet long, with one hydrant servicing 2 buildings with 29 apartment rentals. The proposed 6" water main will connect to the 8" private main on recently installed Drake Drive which is fed by 8" water main at Stewart Avenue.			
Population Total population of Service area _____ % population actually served Less than 1% % population served affected by project 100%			
Latest total consumption data (in MGD) Avg. day 3.0 Year 2014 Max. day 4.22 Year 2014 Peak hr. - Year -		14. NYS Professional Licensed Engineer Stamp & Signature *** <div style="border: 1px solid black; width: 100%; height: 100%;"></div>	
Name of design engineer Richard J. Pearson, PE, PTOE JMC Planning Engineering Landscape Architecture and Land Surveying, PLLC Address 120 Bedford Road Telephone No. (914) 273-5225 E-Mail rpearson@johnmeyerconsulting.com Fax No. (914) 273-2102			
Name and title of applicant or designated representative Mr. Nicholas Minoia "Managing Member" Address 47 River Road, Suite 200, Summit, NJ 07901 <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div style="width: 40%;">  Signature of applicant </div> <div style="width: 20%; text-align: center;"> 12/8/15 Date </div> </div>			
NOTE: All applications must be accompanied by 3 sets of plans, 3 sets of specifications and an engineer's report describing the project in detail. The project must first be discussed with the appropriate city, county, district or regional public health engineer. Signature by a designated representative <i>must</i> be accompanied by a letter of authorization. * Additional information regarding capacity development may be found at: http://www.health.state.ny.us/nysdoh/water/main.htm ** Current DWSRF project listings may be found at: http://www.health.state.ny.us/nysdoh/water/main.htm *** By affixing the stamp and signature the Design Engineer agrees that the plans and specifications have been prepared in accordance with the most recent version of the recommended standards for water works and in accordance with the NYS Sanitary Code.			

DRA Fidelco Newburgh LLC

ORANGE

Orange County Health Departmen

DATE	INVOICE NO	DESCRIPTION	INVOICE AMOUNT	RETAINAGE	BALANCE		
12-07-15	Water Dist	Water Dist System Expa	200.00	.00	200.00		
CHECK DATE	12-08-15	CHECK NUMBER	14217	TOTAL >	200.00	.00	200.00

PLEASE DETACH AND RETAIN FOR YOUR RECORDS

THE FACE OF THIS DOCUMENT HAS A COLORED BACKGROUND ON WHITE PAPER

DRA Fidelco Newburgh LLC

47 River Road
Suite 200
Summit, NJ 07901

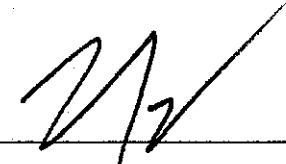
Provident Bank
100 Wood Avenue South
Iselin, NJ 08830

55-7230-2212

DATE	CHECK NO.	AMOUNT
December 8, 2015	14217	*\$200.00

Pay:*****Two hundred dollars and no cents

PAY TO THE ORDER OF
Orange County Health Departmen
124 Main Street
Goshen, NY 10924



THE BACK OF THIS DOCUMENT CONTAINS AN ARTIFICIAL WATERMARK—HOLD AT AN ANGLE TO VIEW

⑈0000 14217⑈ ⑆221272303⑆9848⑈0741⑈2⑈

PAT LINES



CITY OF NEWBURGH

Office of the Engineer
83 Broadway, Newburgh, New York 12550
(845) 569-7448 / Fax (845) 569-7349
www.cityofnewburgh-ny.gov

Jason C. Morris, PE
City Engineer
jmorris@cityofnewburgh-ny.gov

November 9, 2015

James W. Osborne, PE
Town Engineer
Town of Newburgh
1496 Route 300
Newburgh, NY 12550

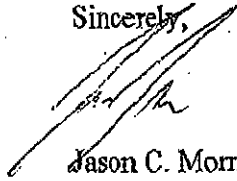
Re: Crossroads S.D. ~ City/Town of Newburgh Intermunicipal Agreement
Summit Lane Expansion - Sewer Connection Approval (4,840 gpd)

Mr. Osborne,

Pursuant to the terms and conditions of the City-Town of Newburgh Intermunicipal Sewer Agreement dated May 6, 2004, permission is hereby granted for a sewer connection to the Town of Newburgh's sewer main to service the proposed Summit Lane expansion project consisting of 28 units proposed along Summit Lane. The anticipated sewer flow increase of 4,840 gpd from this connection will be counted toward the 3.8 million gallons per day capacity allocated to the Town, as stated in the City-Town Sewer Agreement.

Please notify this office via email when sewer flows from this new connection are to commence. If you have any questions regarding this approval, please contact this office at your convenience.

Sincerely,



Jason C. Morris, PE
City Engineer

cc: Michael Ciaravino, City Manager
Michelle Kelson, Corporation Counsel
George Garrison, DPW Superintendent
Karl Weed, PE, Severn Trent Services
Gil Piaquadio, Town Supervisor
John Platt, DPW Commissioner
Mark Taylor, Town Attorney

PRIVATE WATER MAIN DISTRIBUTION SYSTEM FOR SUMMIT LANE AT NEWBURGH EXPANSION STEWART AVENUE TOWN OF NEWBURGH ORANGE COUNTY, NEW YORK

TAX PARCELS:

97-1-65, 97-1-48, 97-1-47

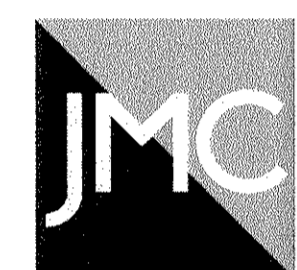
OWNER / APLICANT:

DRA FIDELCO NEWBURGH, LLC
47 RIVER ROAD
SUMMIT, NJ 07901

ATTORNEY:

JACOBOWITZ AND GUBITS, LLP
158 ORANGE AVENUE
WALDEN, NY 12586
TEL: (845) 778-2121

**SITE PLANNER, CIVIL & TRAFFIC
ENGINEER & LANDSCAPE ARCHITECTS:**



120 BEDFORD ROAD
ARMONK, NEW YORK 10504
(914) 273-5225

ARCHITECT:

THOMAS J. BRENNAN, ARCHITECTS
4011 PLAN PARKWAY - SUITE 100
PLANO, TEXAS
TEL: (972) 867-3948

SURVEYOR:

INFINIGY SURVEYING PLLC
11 HERBERT DRIVE
LATHAM, NEW YORK 12110
TEL: (518) 690-0790

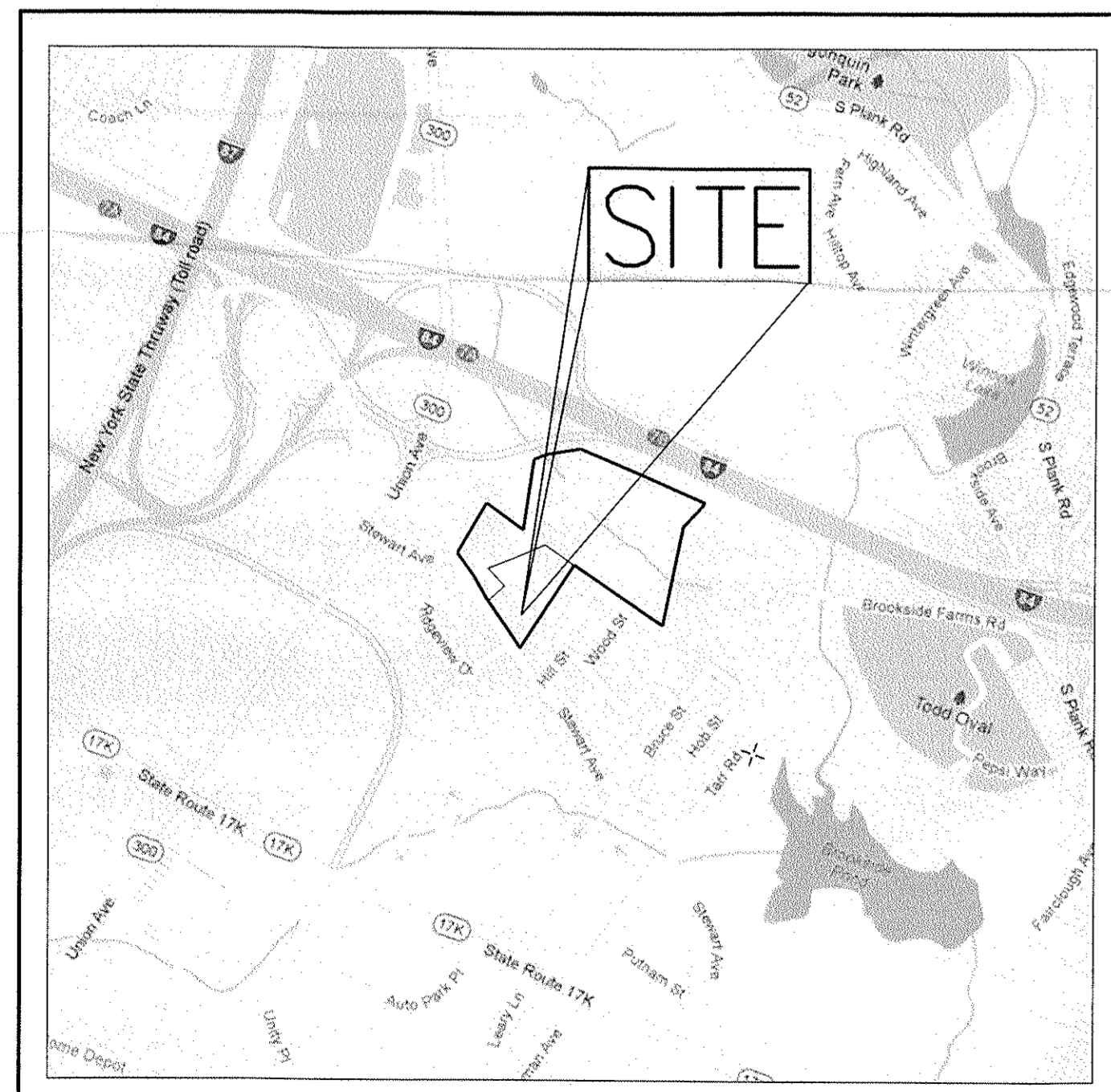
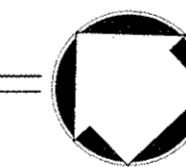
JOHN MEYER CONSULTING DRAWINGS:

SP-H1 COVER SHEET
SP-4 GRADING PLAN
SP-5 UTILITIES PLAN
SP-9 UTILITY PROFILES
SP-W1 WATER MAIN DETAILS



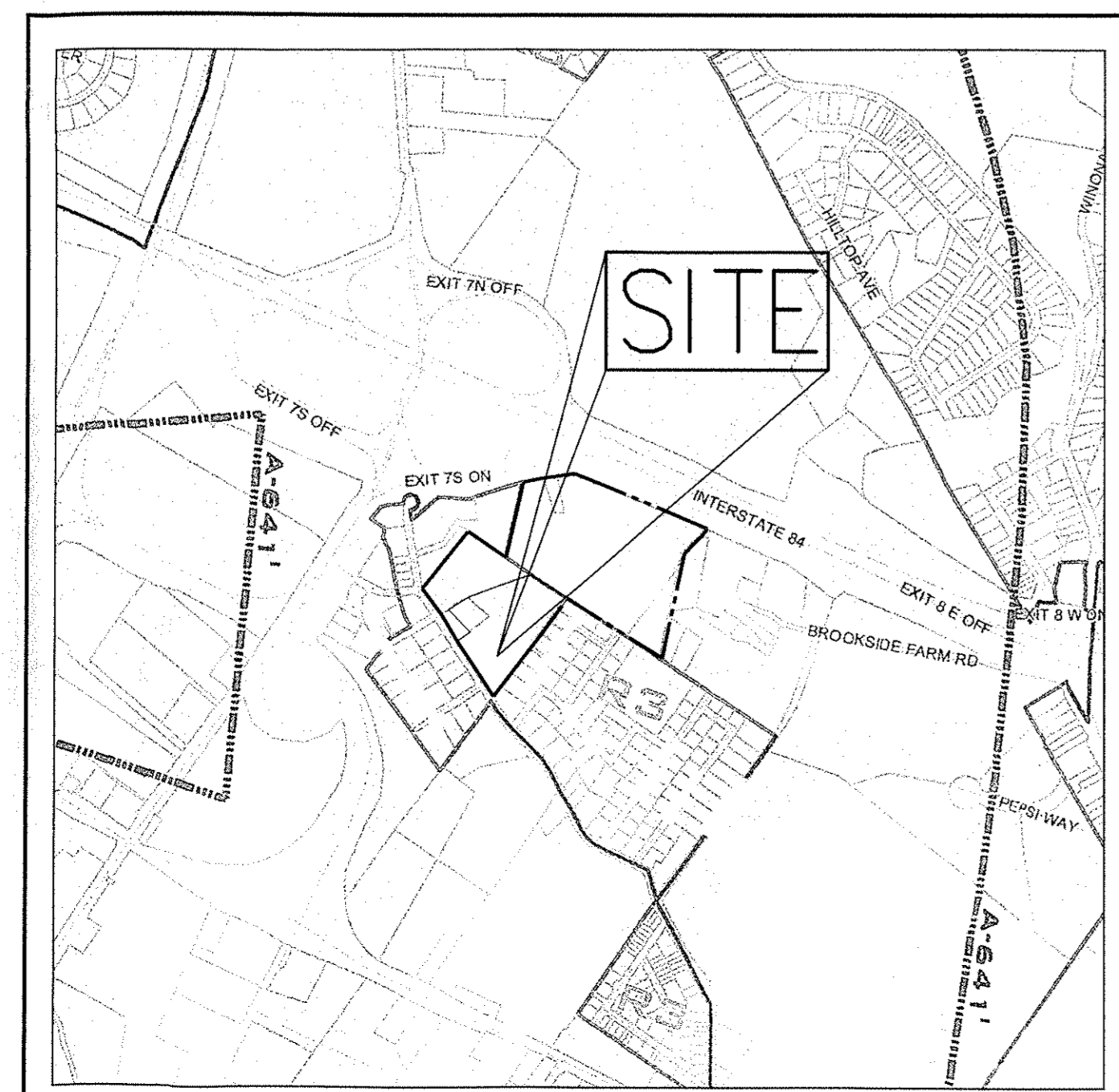
AREA MAP

SCALE: 1"=100'



VICINITY MAP

SCALE: 1" = 1000'



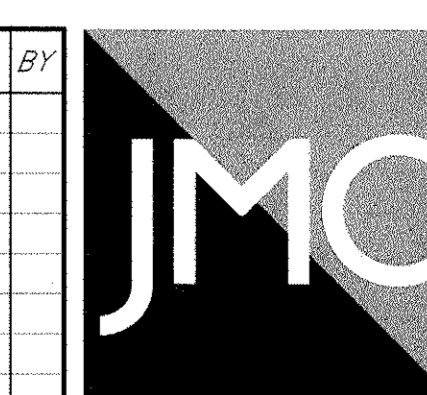
ZONING DISTRICT MAP

N.T.S.



ANY ALTERATION OF PLANS, SPECIFICATIONS, PLATS AND REPORTS BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER OR LICENSED LAND SURVEYOR IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW, EXCEPT AS PROVIDED FOR BY SECTION 7209, SUBSECTION 2.

NO.	REVISION	DATE	BY



JMC Planning, Engineering, Landscape
Architecture & Land Surveying, PLLC
JMC Site Development Consultants, LLC
John Meyer Consulting, Inc.
120 BEDFORD ROAD • ARMONK, NY 10504
voice 914.273.5225 • fax 914.273.2102
www.jmcpllc.com

DATE: 12/07/2015
PROJECT NO: 14136
DRAWING NO: SP-H1
SCALE: AS SHOWN
APPROVED: JS
CHECKED: AS SHOWN
DATE: 12/07/2015
PROJECT NO: 14136
DRAWING NO: SP-H1

- NOTES:
- (1) THE SUMMIT LANE AT NEWBURGH EXPANSION PROJECT PROPOSES 28 RENTAL APARTMENTS IN 2 BUILDINGS. THE PROPOSED APARTMENT BUILDINGS ARE COMPRISED OF A 14 UNIT BUILDING (10 BUILDINGS) WITH 10 GARAGE PARKING SPACES. THE 14 UNIT BUILDING HAS EIGHT 2-BEDROOM AND SIX 1-BEDROOM APARTMENTS. THE TOTAL NUMBER OF 2-BEDROOM UNITS IS 16, WHILE THE NUMBER OF 1-BEDROOM UNIT IS 12.
 - (2) CALCULATIONS ARE BASED ON THE R3 RESIDENTIAL ZONE, ALLOWING 6 UNITS PER ACRE.
 - (3) PER R3 ZONING FOR MULTIFAMILY RESIDENCE, 2 SPACES PER DWELLING UNIT.
28 UNITS X 2 SPACES/DWELLING = 56 SPACES
10% OF PARKING (VISITOR PARKING) = 46 SPACES
TOTAL PARKING (PROVIDED) = 64 SPACES
 - (4) PROPERTY TAX MAP DESIGNATIONS:
A. TAX MAP NUMBER 97-1-65, (26.67± A.C.)
B. TAX MAP NUMBER 97-1-48 & 97-1-47, (4.98± A.C.)
 - (5) PROPERTY SITE IS LOCATED WITHIN THE NEWBURGH CONSOLIDATED WATER DISTRICT #1
 - (6) PROPERTY SITE IS LOCATED WITHIN THE TOWN OF NEWBURGH CROSSROADS CONSOLIDATED SEWER DISTRICT.
 - (7) HEIGHT OF BUILDING IS 32'-11"
 - (8) PROPERTY IS NOT LOCATED WITHIN A FLOOD ZONE. PROPERTY DOES NOT CONTAIN WETLANDS REGULATED BY THE ARMY CORPS OF ENGINEERS (ACOE) OR THE NYSDEC.
 - (9) 75' NOR LESS THAN TWICE THE HEIGHT OF THE TALLER BUILDING (66').

NOT FOR CONSTRUCTION



LEGEND

	EXISTING PROPERTY LINE
	ADJACENT PROPERTY LINE
	EXISTING EASEMENT LINE
	EXISTING BUILDING LINE
	EXISTING PAVEMENT EDGE
	EXISTING CURB LINE
	EXISTING CONTOUR
	EXISTING INDEX CONTOUR
	EXISTING STONE WALL
	EXISTING RETAINING WALL
	EXISTING GUIDE RAIL
	EXISTING FENCE
	EXISTING DRAIN INLET
	EXISTING MANHOLE
	EXISTING FIRE HYDRANT
	EXISTING GAS VALVE
	EXISTING WATER VALVE
	EXISTING UTILITY POLE
	EXISTING LIGHT POLE
	EXISTING SIGN
	PROPOSED BUILDING LINE
	PROPOSED CONCRETE CURB
	PROPOSED CONCRETE SIDEWALK
	PROPOSED RIP-RAP (MEDIUM STONE)
	PROPOSED DROP CURB AND RAMP
	PROPOSED RIP-RAP
	PROPOSED DITCH OR SWALE
	PROPOSED FINISHED GRADE
	PROPOSED SPOT GRADE
	TEST PIT

NOTES:

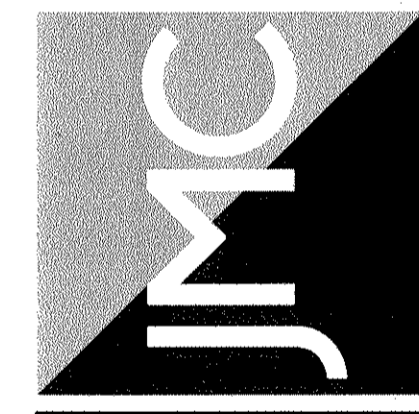
- EXISTING CONDITIONS DEPICTED ON THIS PLAN HAVE BEEN TAKEN FROM SURVEY ENTITLED, "UPDATED OF AN ALTA/ACSM LAND TITLE SURVEY" SURVEY UPDATED BY INTINITY SURVEYING PLLC (A SUCCESSOR TO INTINITY ENGINEERING & SURVEYING PLLC) NOVEMBER 2011 AND MARCH/JUNE 2012.
- GEOLOGICAL BORING/TEST PIT LOCATIONS DEPICTED ON THIS PLAN WERE TAKEN FROM THE GEOTECHNICAL REPORT ENTITLED, "SOILS AND FOUNDATION INVESTIGATION REPORT", DATED JUNE, 28/2012, PREPARED BY MELICK-TULLY AND ASSOCIATES, P.C..

DATE	10/20/2015
BY	PD
NO.	1
REVISION	

DRA FIDELCO NEWBURGH, LLC
 120 BEVERLY ROAD - SUITE 100
 SUMMIT, NJ 07901

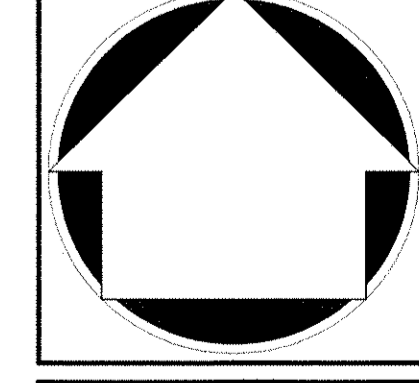
THOMAS J. BRENNAN, ARCHITECTS
 4011 PLAIN PARKWAY - SUITE 100
 PLAIN, TEXAS

JMC Planning, Engineering, Landscape Architects & Land Surveying, PLLC
 JMC Site Remediation Consultants, LLC
 John Meyer Consulting, Inc.
 120 BEVERLY ROAD - SUITE 100
 SUMMIT, NJ 07901
 Phone: 914.273.2225 • Fax: 914.273.2102
 www.jmcplic.com



R3 RESIDENTIAL ZONE

GRADING PLAN
 SUMMIT LANE AT NEWBURGH EXPANSION
 SUMMIT, NJ
 TOWN OF NEWBURGH, NEW YORK



OWNER	DM	APPROVED	JS
SCALE	1"=40'		
DATE	07/24/2015		
PROJ. NO.	14136		
14136-SITE	GRADING		
DRAWING NO.	SP-4		

SP-4



LEGEND	
	EXISTING PROPERTY LINE
	ADJACENT PROPERTY LINE
	EXISTING WETLAND LINE AND DELINEATION
	EXISTING BUILDING OVERHANG
	EXISTING BUILDING LINE
	EXISTING PAVEMENT EDGE
	EXISTING CURB LINE
	EXISTING STONE WALL
	EXISTING RETAINING WALL
	EXISTING GUIDE RAIL
	EXISTING STORM DRAIN LINE AND SIZE
	EXISTING SANITARY LINE AND SIZE
	EXISTING WATER LINE
	EXISTING GAS LINE
	EXISTING OVERHEAD WIRES
	EXISTING DRAIN INLET
	EXISTING MANHOLE
	EXISTING FIRE HYDRANT
	EXISTING GAS VALVE
	EXISTING WATER VALVE
	EXISTING UTILITY POLE
	EXISTING LIGHT POLE
	PROPOSED BUILDING LINE
	PROPOSED CONCRETE CURB
	PROPOSED SANITARY SEWER MANHOLE
	PROPOSED STORM DRAIN MANHOLE
	PROPOSED TYPE CI DRAIN INLET
	PROPOSED TYPE DI DRAIN INLET
	PROPOSED HEADWALL
	PROPOSED HYDRANT
	PROPOSED STORM DRAIN LINE & SIZE
	PROPOSED SANITARY SEWER LINE & SIZE
	PROPOSED RETAINING WALL (DESIGN BY OTHERS)
	PROPOSED RIP-RAP (MEDIUM STONE)

NOTES:

- EXISTING CONDITIONS DEPICTED ON THIS PLAN HAVE BEEN TAKEN FROM SURVEY ENTITLED "PROPOSED ALTA/ACSM LAND TITLE SURVEY" SURVEY UPDATED BY HERNEY SURVEYING PLLC (A SUCCESSOR TO HERNEY ENGINEERING & SURVEYING PLLC) NOVEMBER 2011 AND MARCH/JUNE 2012.
- UNLESS OTHERWISE SPECIFIED, PIPE FOR STORM DRAINS SHALL BE HIGH DENSITY POLYETHYLENE PIPE (HDPE) WITH A SMOOTH INTERIOR AND ANNUAL EXTERIOR COEFFICIENT OF FRICTION IN ACCORDANCE WITH ASTM D-3022.
- UNLESS OTHERWISE SPECIFIED, PIPE FOR SANITARY SEWER GRAVITY LINES SHALL BE POLYETHYLENE GLASS REINFORCED PIPE (PEFRP) 200-350 WITH PUSH JOINTS IN ACCORDANCE WITH ASTM D-3034 AND D-3032.
- UNLESS OTHERWISE SPECIFIED, PIPE FOR WATER LINES SHALL BE DOUBLE CONDUIT-DUCTILE IRON PIPE (DIP) CLASS 50 WITH MECHANICAL JOINTS IN ACCORDANCE WITH AWWA C-150, C-151, C-104 AND C-111.
- ELECTRIC, TELEPHONE, FIRE ALARM AND CABLE TELEVISION LINES SHALL BE INSTALLED UNDERGROUND IN ACCORDANCE WITH THE REQUIREMENTS OF THE UTILITY COMPANY HAVING JURISDICTION.
- CONSTRUCTION OF POTABLE WATER UTILITIES AND CONNECTION TO THE TOWN OF NEUBOURGH WATER SYSTEM REQUIRES A PERMIT FROM THE TOWN OF NEUBOURGH WATER DEPARTMENT. ALL REQUIREMENTS SHALL CONFORM TO THE REQUIREMENTS OF THE NEW YORK STATE DEPARTMENT OF HEALTH AND THE TOWN OF NEUBOURGH.
- ALL WATER SERVICE LINES FOUR (4) INCHES AND LARGER IN DIAMETER SHALL BE CONDUIT UNLESS CLASS 50 DUCTILE IRON PIPE CONFORMING TO ANSI/AWWA C100/A21.51-91 OR LATER REVISION FOR DUCTILE IRON PIPE SHALL BE OTHER POSITION OR MECHANICAL JOINT AS REQUIRED.
- THRUST RESTRAINT OF THE PIPE SHALL BE THROUGH THE USE OF JOINT RESTRAINT. THRUST BLOCKS ARE NOT ACCEPTABLE. JOINT RESTRAINT SHALL BE THROUGH THE USE OF MECHANICAL JOINT PIPE WITH RETAINER GLANDS. ALL FITTINGS AND VALVES SHALL ALSO BE INSTALLED WITH RETAINER GLANDS FOR JOINT RESTRAINT. RETAINER GLANDS SHALL BE OLEUM FROM MEGALON SERIES 1100 OR APPROVED EQUAL. THE USE OF A MANUFACTURED RESTRAINTED JOINT PIPE IS ACCEPTABLE WITH PERMIT APPROVAL OF THE WATER DEPARTMENT.
- ALL FITTINGS SHALL BE CAST IRON OR DUCTILE IRON MECHANICAL JOINT CLASS 250 AND CONFORM TO ANSI/AWWA C110/A21.10-87 OR LATEST REVISION FOR CASTLE AND GRAY JOINT FITTINGS OR ANSI/AWWA C115/A21.53-84 FOR LATEST REVISION FOR DUCTILE IRON CONTACT FITTINGS.
- ALL VALVES SHALL BE RESILIENT WEDGE, MECHANICAL JOINT GATE VALVES CONFORMING TO ANSI/AWWA C200 OR LATEST REVISION SUCH AS MUELLER A-23M-23 OR APPROVED EQUAL. ALL GATE VALVES SHALL OPEN LEFT (COUNTER CLOCK WISE).
- TAPPING SLEEVE SHALL BE MECHANICAL JOINT SUCH AS MUELLER H-1055 OR EQUAL. TAPPING VALVE SHALL BE RESILIENT WEDGE GATE VALVES CONFORMING TO ANSI/AWWA C200 OR LATEST REVISION SUCH AS MUELLER H-1055 OR APPROVED EQUAL. ALL TAPPING SLEEVES AND VALVES SHALL BE TESTED TO 150 PSI MINIMUM TESTING OF TAPPING SLEEVES AND VALVES MUST BE WITNESSED AND ACCEPTED BY THE TOWN OF NEUBOURGH WATER DEPARTMENT PRIOR TO CUTTING INTO THE PIPE.
- ALL WATER SERVICE LINES TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE TYPE K COPPER TUBING. COPPERATION STOPS SHALL BE MUELLER H-1020 FOR 1/2 AND 3/4 INCH SIZES OR B-2000 FOR 1/2 AND 3/4 INCH SIZES. COPPERATION STOPS SHALL BE MUELLER H-1020 FOR 1/2 AND 3/4 INCH SIZES. COPPERATION STOPS SHALL BE MUELLER H-1020 FOR 1/2 AND 3/4 INCH SIZES.
- ALL PIPE INSTALLATION SHALL BE SUBJECT TO INSPECTION BY THE TOWN OF NEUBOURGH WATER DEPARTMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL INSPECTIONS WITH THE TOWN OF NEUBOURGH WATER DEPARTMENT.
- THE WATER MAIN SHALL BE TESTED, DISINFECTED AND FLUSHED IN ACCORDANCE WITH THE TOWN OF NEUBOURGH WATER DEPARTMENT. ALL TESTING, DISINFECTION AND FLUSHING SHALL BE COORDINATED WITH THE TOWN OF NEUBOURGH WATER DEPARTMENT PRIOR TO TESTING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL INSPECTIONS WITH THE TOWN OF NEUBOURGH WATER DEPARTMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL INSPECTIONS WITH THE TOWN OF NEUBOURGH WATER DEPARTMENT.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY EQUIPMENT AND SHALL PERFORM ALL WORK REQUIRED IN CONNECTION WITH THE TESTS AS SPECIFIED HEREIN. ALL PIPE SHALL BE TESTED BY HYDROSTATIC PRESSURE TEST (HPT) TO 150 PSI OR MORE THAN THE NORMAL PIPE WORKING PRESSURE BUT NOT LESS THAN 150 PSI. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL INSPECTIONS WITH THE TOWN OF NEUBOURGH WATER DEPARTMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL INSPECTIONS WITH THE TOWN OF NEUBOURGH WATER DEPARTMENT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PRESERVATION OF ALL EXISTING UTILITIES AND STRUCTURES AND SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.

BY	DAZE
DATE	10/20/2015
REVISED	
NO.	1

DRA FIDELCO NEUBOURGH, LLC
 47 RIVER ROAD
 SUMMIT, NJ 07901

THOMAS J. BRENNAN, ARCHITECTS
 401 PLANET PARKWAY SUITE 100
 PLANO, TEXAS



UTILITY PLAN

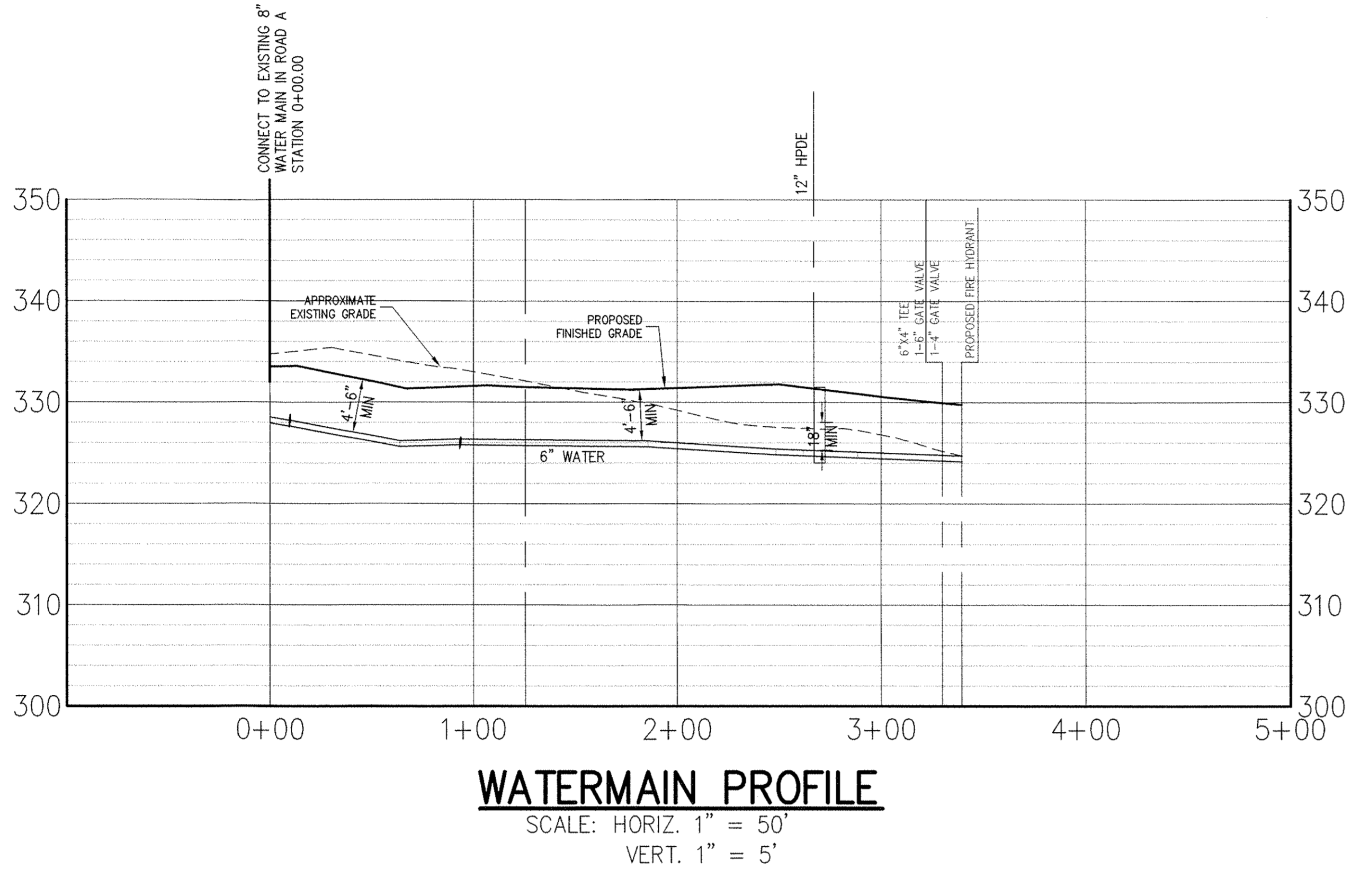
SUMMIT LANE AT NEUBOURGH EXPANSION

STEWART AVENUE
TOWN OF NEUBOURGH, NEW YORK

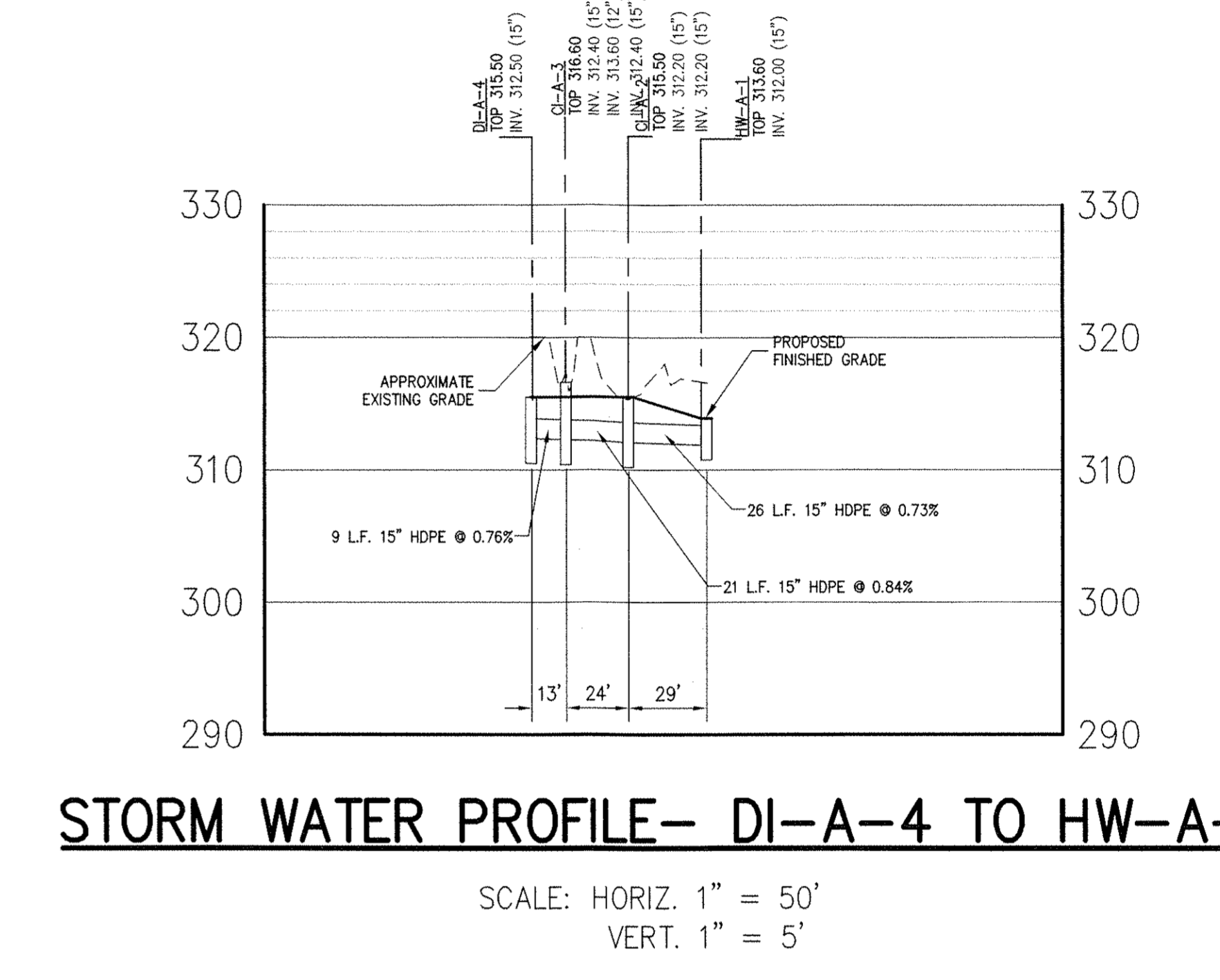
DATE: DM APPROVED: JS
 SHEET: 1-407
 DATE: 07/24/2015
 PLOT NO: 14136

14136-DTE UTL-WL UTL-SK
 DRAWING NO: **SP-5**

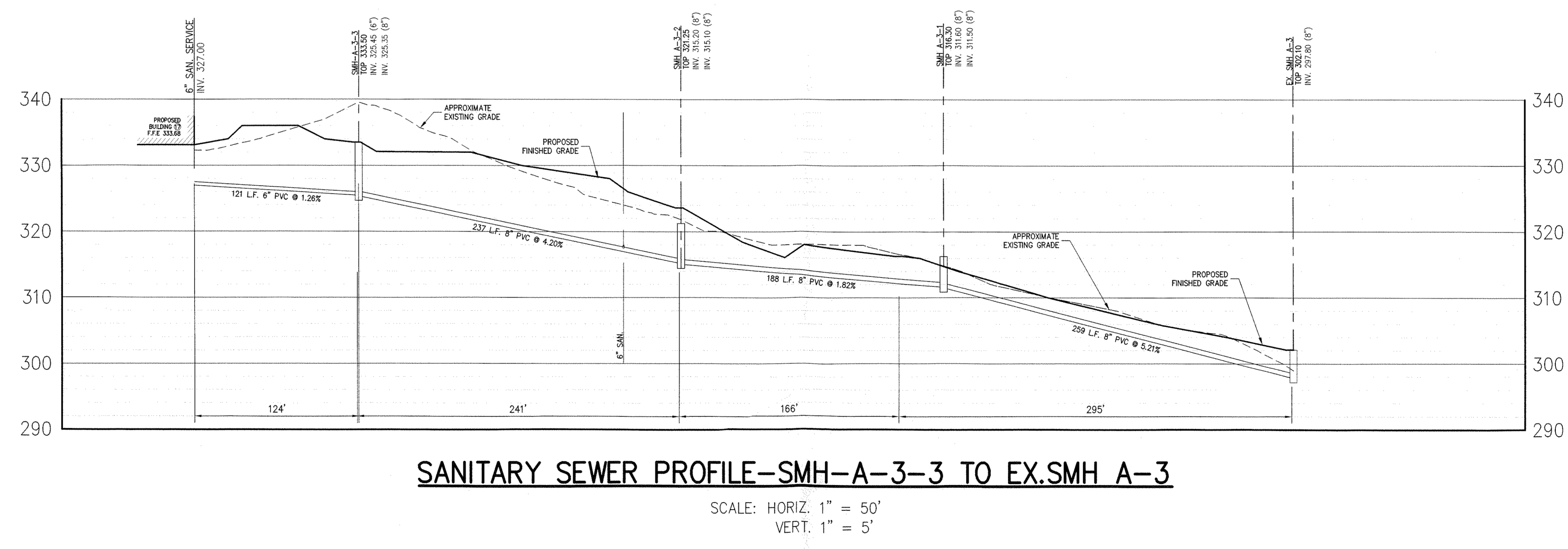
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WATERMAIN PROFILE
 SCALE: HORIZ. 1" = 50'
 VERT. 1" = 5'



STORM WATER PROFILE-DI-A-4 TO HW-A-1
 SCALE: HORIZ. 1" = 50'
 VERT. 1" = 5'



SANITARY SEWER PROFILE-SMH-A-3-3 TO EX.SMH A-3
 SCALE: HORIZ. 1" = 50'
 VERT. 1" = 5'

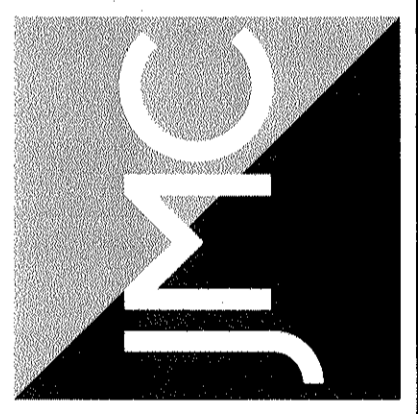
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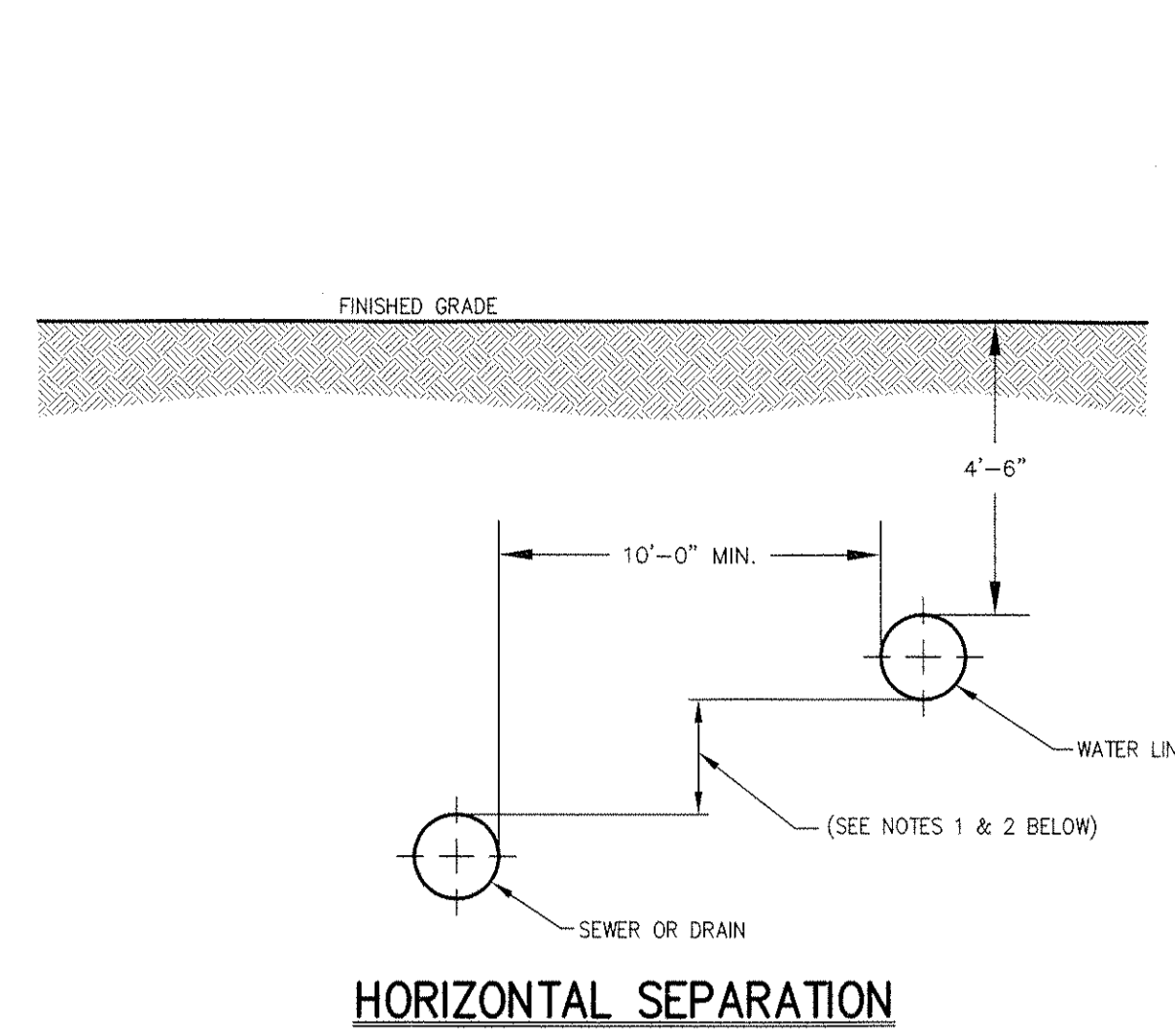
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UTILITIES PROFILES
 SUMMIT LANE AT NEWBURGH EXPANSION
 STEWART AVENUE
 TOWN OF NEWBURGH, NEW YORK

DATE	DESIGNED	APPROVED

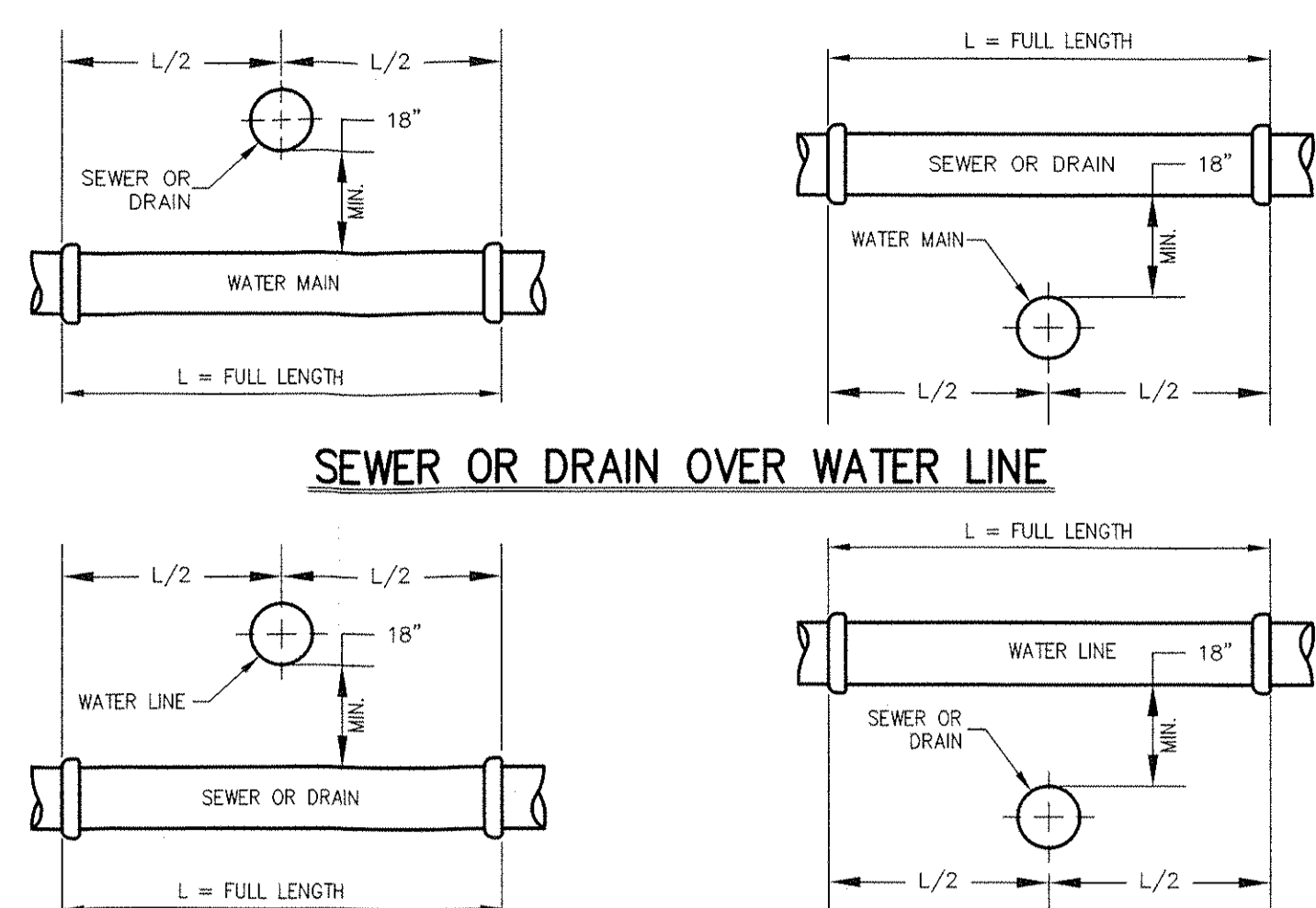
SCALE	DM	AS SHOWN	JS
DATE	07/24/2015	14136	
PROJECT	14136-SITE	PROFILES	UTIL-001
PROJECT NO.	SP-9		



HORIZONTAL SEPARATION

NOTES: (HORIZONTAL SEPARATION)

1. WATER LINES SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED SEWER OR DRAIN LINES. SHOULD LOCAL CONDITIONS PREVENT A LATERAL SEPARATION OF 10 FEET, A WATER LINE MAY BE LAID CLOSER THAN 10 FEET TO A SEWER OR DRAIN IN A SEPARATE TRENCH OR AT LEAST 18 INCHES FROM THE SAME TRENCH WITH THE WATER MAIN LOCATED AT ONE SIDE OR TRENCH OF UNDISTURBED EARTH AND 18 INCHES FROM THE DRAIN OR LOCATED AT ONE SIDE OR DRAIN IS AT LEAST 18 INCHES BELOW THE BOTTOM OF THE WATER LINE.
2. WHEN IT IS IMPOSSIBLE TO OBTAIN PROPER HORIZONTAL SEPARATION, AS SPECIFIED ABOVE, THE SEWER OR DRAIN SHALL BE CONSTRUCTED OF MATERIALS AND WITH JOINTS EQUIVALENT TO THE STANDARDS FOR THE WATER LINE AND SHALL BE PRESSURE TESTED TO ASSURE WATER TIGHTNESS PRIOR TO BACKFILLING.

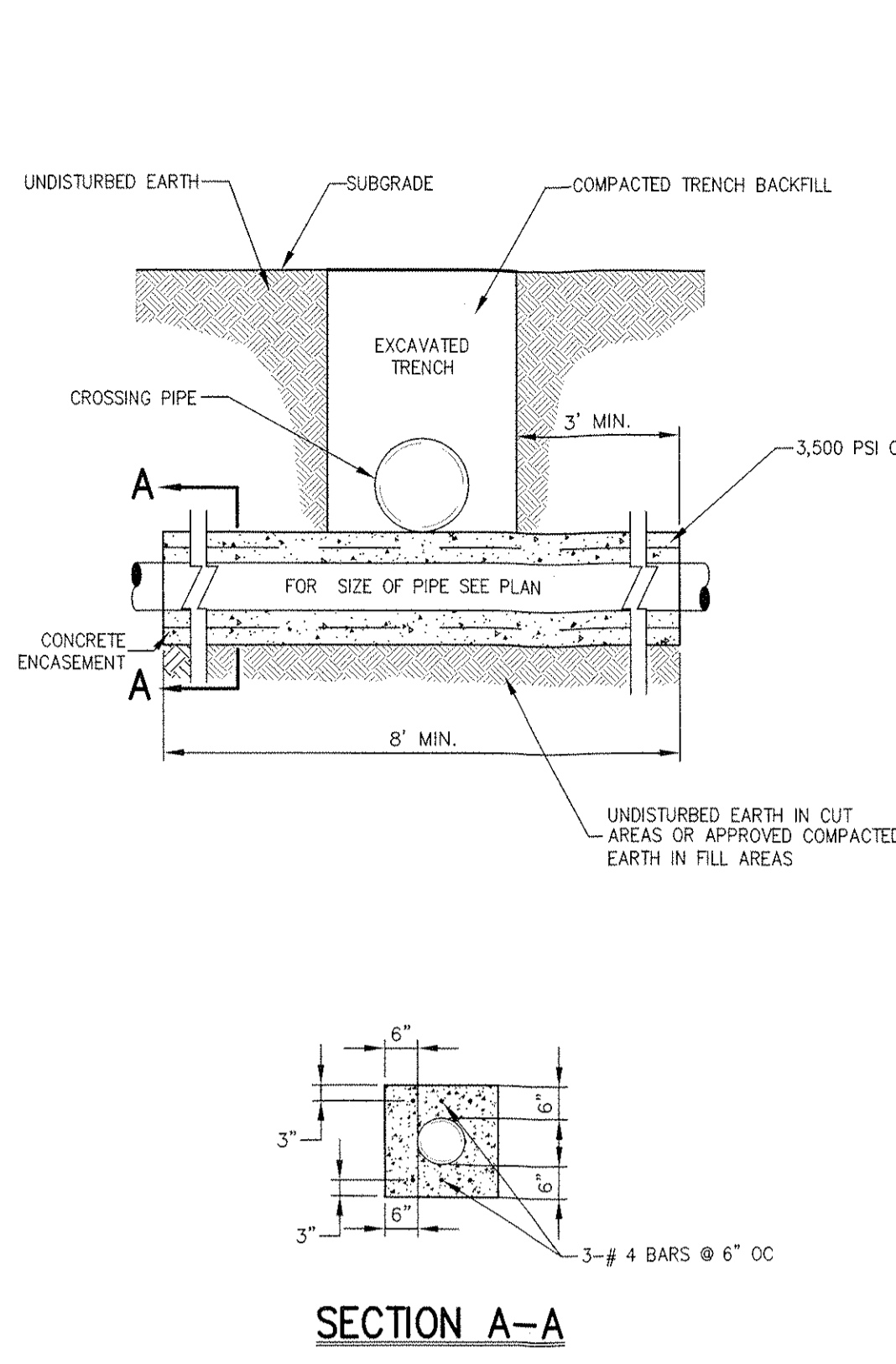


SEWER OR DRAIN OVER WATER LINE

WATER LINE OVER SEWER OR DRAIN
VERTICAL SEPARATION

NOTES: (VERTICAL SEPARATION)

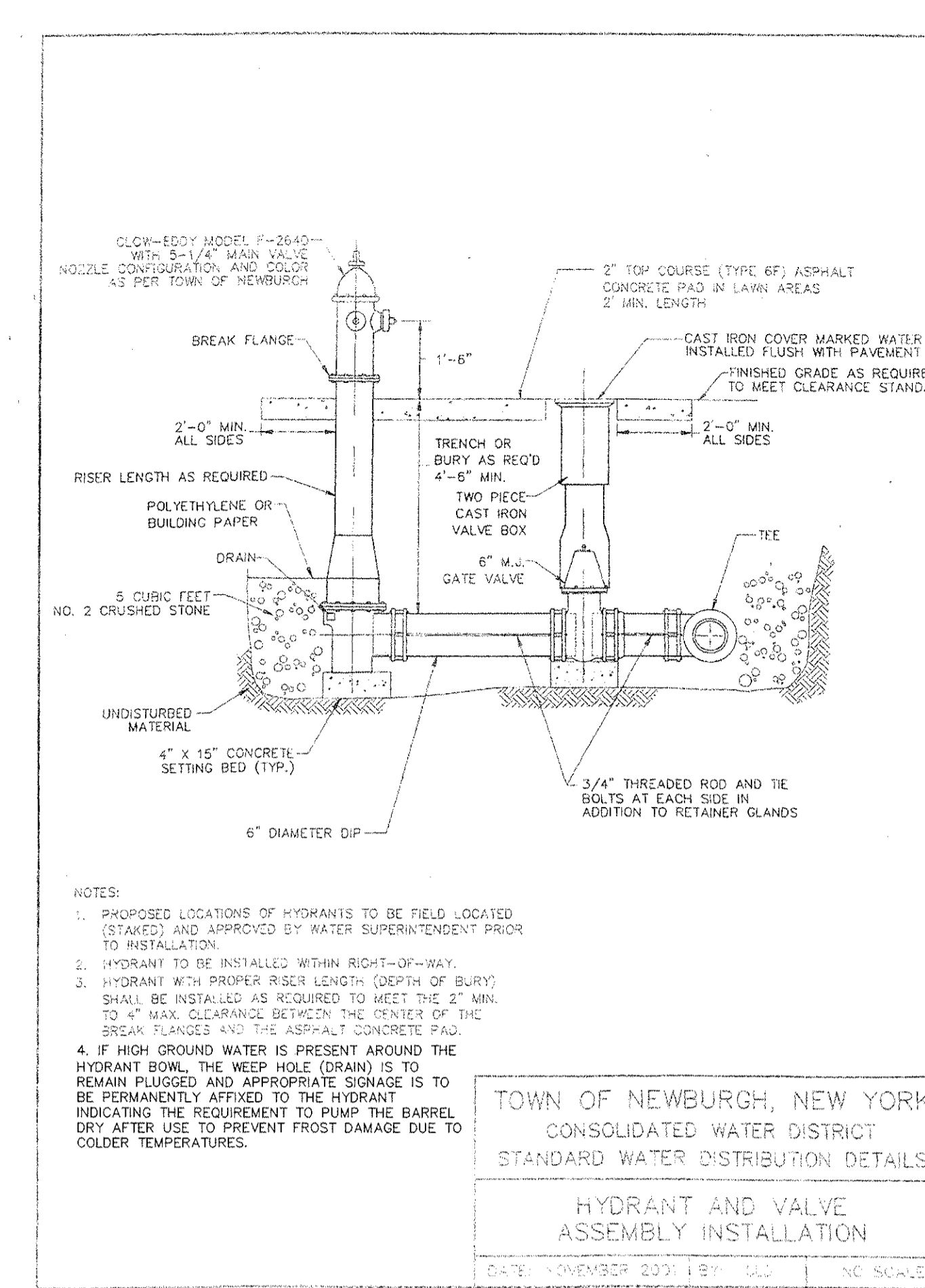
1. NORMAL CONDITIONS: UNLESS A WATER LINE MUST CROSS OVER OR UNDER A SEWER OR DRAIN, THE PIPES SHALL BE LAID TO PROVIDE A VERTICAL SEPARATION BETWEEN THEM OF AT LEAST 18 INCHES, AS MEASURED FROM THE BOTTOM OF THE HIGHER PIPE TO THE TOP OF THE LOWER PIPE.
2. UNUSUAL CONDITIONS: WHEN CONDITIONS PREVENT A VERTICAL SEPARATION OF 18 INCHES, THE SEWER SHALL BE CONSTRUCTED OF MATERIALS AND WITH JOINTS EQUIVALENT TO WATER LINE STANDARDS AND SHALL BE PRESSURE TESTED TO ASSURE WATER TIGHTNESS PRIOR TO BACKFILLING.
3. WATER LINE CROSSING UNDER SEWER:
 - A. VERTICAL SEPARATION OF 18 INCHES MUST BE PROVIDED.
 - B. ADEQUATE STRUCTURAL SUPPORT MUST BE PROVIDED FOR THE SEWER TO PREVENT EXCESSIVE DEFLECTION OF JOINTS AND SETTLING.
 - C. FULL LENGTH OF WATER PIPE MUST BE CENTERED AT THE POINT OF CROSSING; NO JOINTS WILL BE PERMITTED AT THE POINT OF CROSSING.
 - D. SEWERS MUST BE CONSTRUCTED OF MATERIALS AND WITH JOINTS EQUIVALENT TO WATER LINE STANDARDS AND PRESSURE TESTED.



SECTION A-A

NOTE:

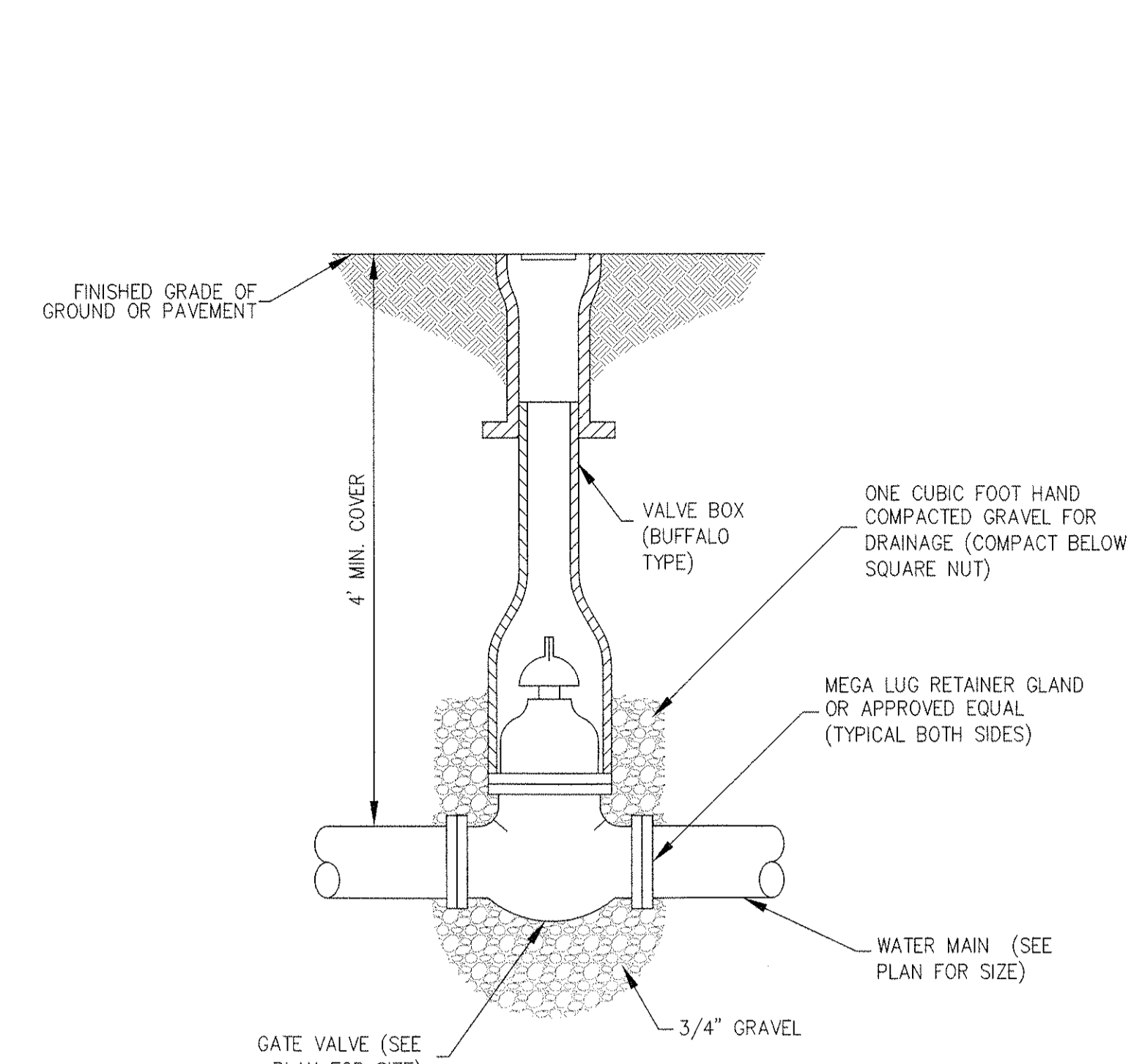
1. FULL LENGTH OF PIPE TO BE USED AT CROSSING: PIPE TO BE CENTERED ON CENTERLINE OF CROSSING PIPE. NO JOINTS SHALL BE LOCATED WITHIN THE AREA OF CONCRETE ENCASUREMENT.



- NOTES:
1. PROPOSED LOCATION OF HYDRANTS TO BE FIELD LOCATED BY WATER AND APPROVED BY WATER SUPERVISOR PRIOR TO INSTALLATION.
 2. HYDRANT TO BE INSTALLED WITHIN RIGHT-OF-WAY.
 3. HYDRANT WITH SHORPER RISE LENGTH (DEPTH OF BURST SHALL BE INSTALLED AS REQUIRED TO MEET THE 3\"/>

TOWN OF NEWBURGH, NEW YORK
CONSOLIDATED WATER DISTRICT
STANDARD WATER DISTRIBUTION DETAILS

HYDRANT AND VALVE ASSEMBLY INSTALLATION



NOTES:

1. GATE VALVES SHALL CONFORM TO AWWA SPECIFICATION C-509-01. GATE VALVES SHALL BE SERIES 2360 AS MANUFACTURED BY MUELLER CO.
2. ALL VALVES SHALL OPEN TO THE LEFT (COUNTERCLOCKWISE).

SEPARATION OF WATER AND SEWER/DRAIN LINES

1

CONCRETE ENCASEMENT

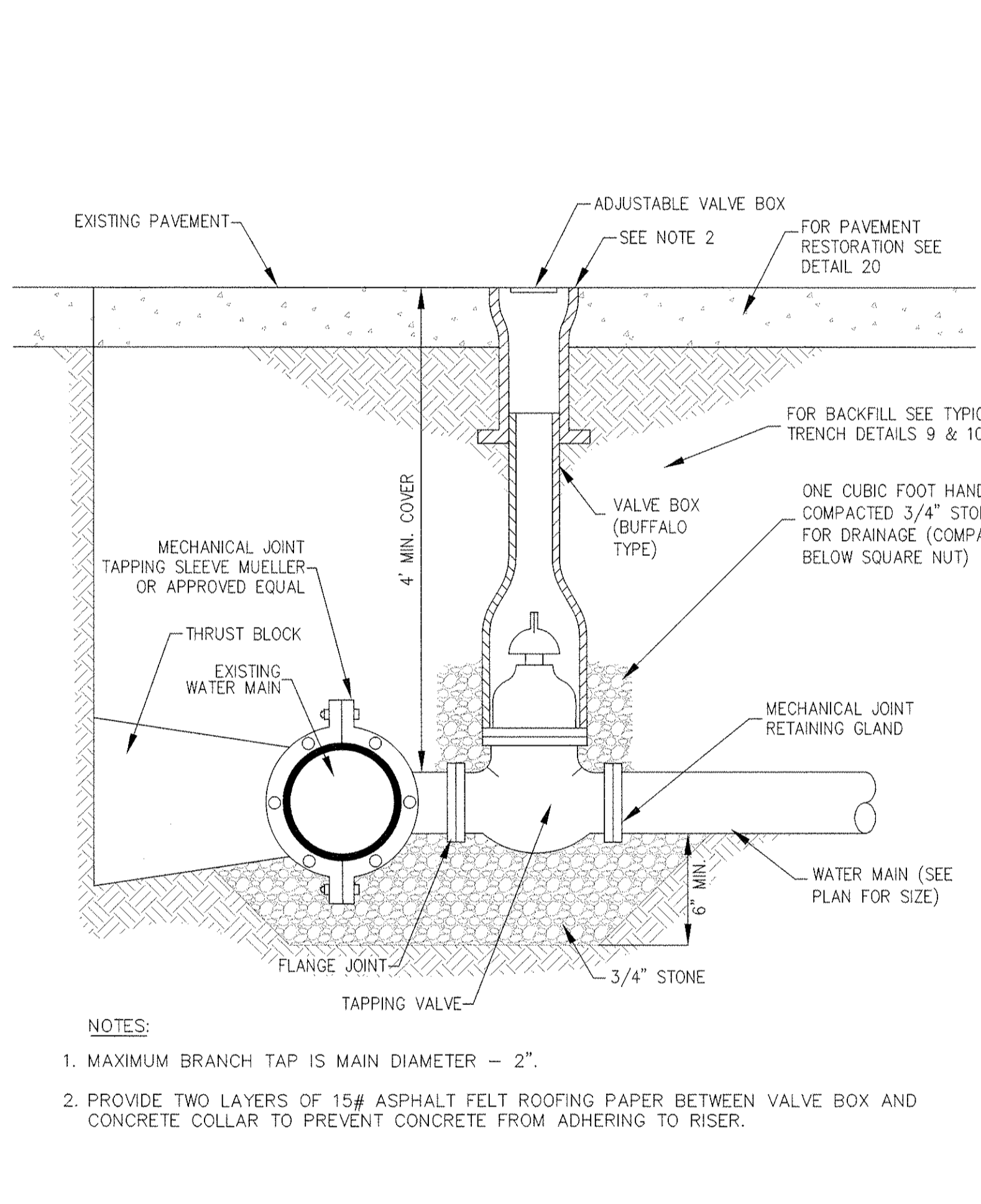
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HYDRANT AND VALVE ASSEMBLY INSTALLATION

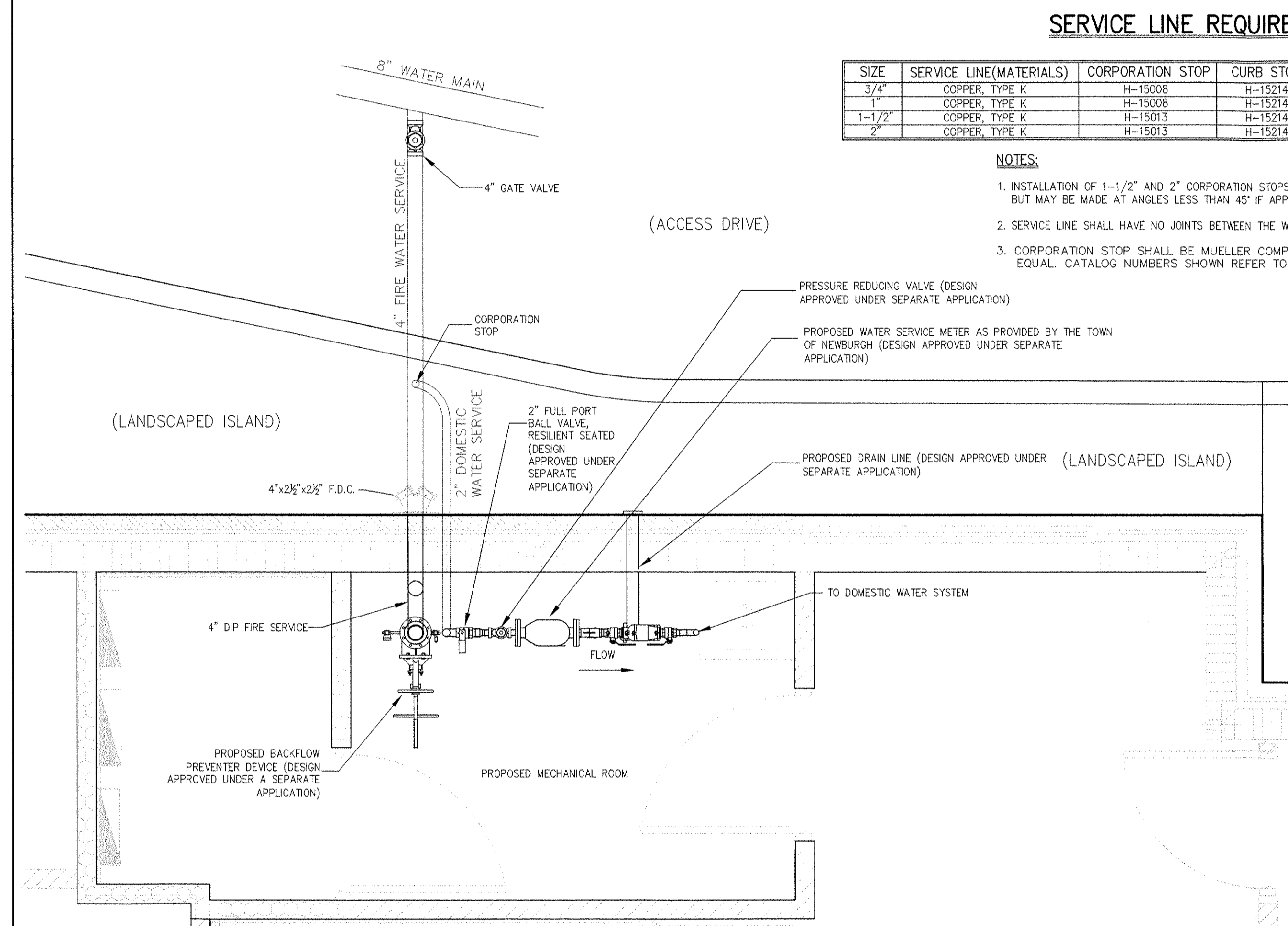
3

GATE VALVE

4



- NOTES:
1. MAXIMUM BRANCH TAP IS MAIN DIAMETER - 2\"/>
 - 2. PROVIDE TWO LAYERS OF 15# ASPHALT FELT ROOFING PAPER BETWEEN VALVE BOX AND CONCRETE COLLAR TO PREVENT CONCRETE FROM ADHERING TO RISER.



SERVICE LINE REQUIREMENTS

SIZE	SERVICE LINE MATERIALS	CORPORATION STOP	CURB STOP	CURB BOX	ENLARGED BASE
3/4"	COPPER, TYPE K	H-19008	H-19014	H-19050	Not Applicable
1"	COPPER, TYPE K	H-19008	H-19014	H-19050	Not Applicable
1 1/2"	COPPER, TYPE K	H-19013	H-19014	H-19050	Not Applicable
2"	COPPER, TYPE K	H-19013	H-19014	H-19050	H-19349

NOTES:

1. INSTALLATION OF 1-1/2" AND 2" CORPORATION STOPS SHALL BE MADE IN THE UPPER PIPE QUADRANT, BUT MAY BE MADE AT ANGLES LESS THAN 45° IF APPROVED BY THE OWNER'S FIELD REPRESENTATIVE.
2. SERVICE LINE SHALL HAVE NO JOINTS BETWEEN THE WATER MAIN AND BUILDING.
3. CORPORATION STOP SHALL BE MUELLER COMPANY OR APPROVED EQUAL. CATALOG NUMBERS SHOWN REFER TO MUELLER COMPANY.

WET TAP MAIN CONNECTION

5

WATER SERVICE CONNECTION

6

X

X

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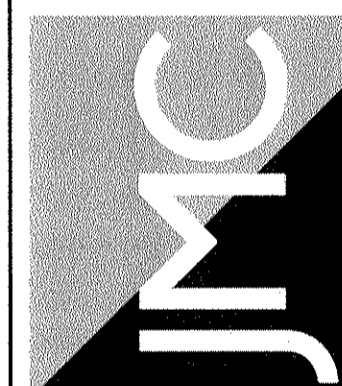
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Drawn: DG, Approved: JS
Scale: N.T.S.
Date: 12/07/2015
Project No: 14136
Site No: SP-01

SP-W1

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WATER MAIN DETAILS
SUMMIT LANE AT NEWBURGH EXPANSION
TOWN OF NEWBURGH, NEW YORK

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