

TOWN OF NEWBURGH PLANNING BOARD TECHNICAL REVIEW COMMENTS

PROJECT NAME:ELM FARMPROJECT NO.:2021-15PROJECT LOCATION:SECTION 39, BLOCK 1, LOT 12.44REVIEW DATE:10 DECEMBER 2021MEETING DATE:16 DECEMBER 2021PROJECT REPRESENTATIVE:PITINGARO & DOETSCH CONSULTING ENGINEERS

- 1. The applicant's representatives have provided updated NYSDEC Permits for Article 24 Wetlands and Section 401 Water Quality Certifications which are now valid until 14 April 2024.
- 2. The status of Orange County DPW review of the project should be determined.
- 3. Orange County 239 Referral was received on 2 October 2021. The County 239 review status that no significant intermunicipal or county line impacts would result from the project.
- 4. Security for Landscaping, Stormwater Management and Erosion and Sediment Control, water mains, sewer mains and roadways are required. The applicant's representative are requested to provide cost estimates for review. Town Board action on security is required.
- 5. Orange County Health Department approval for the Realty Subdivision has been extended with an expiration of 4 March 2023.
- 6. NYSDEC approval for the sanitary sewer system dated 12 March 2018 with a five year permit timeframe has been issued.
- 7. A City of Newburgh Flow Acceptance Letter dated 21 April 2005 has been issued for the project.
- 8. A Stormwater Facilities Maintenance Agreement must be executed for the project.
- 9. Permit coverage under the NYSDEC's Stormwater General Permit must be received.
- 10. During a previous Public Hearing for the project numerous residents identified the need for street lighting. A previous Resolution of Approval contained a condition that the applicant has agreed to install a street light at the intersections feeding into the subdivision.
- 11. Statue of the outside user Agreement for the project for sewage collection, conveyance and collection treatment, should be discussed.

NEW YORK OFFICE

33 Airport Center Drive, Suite 202, New Windsor, NY 12553 845-567-3100 | F: 845-567-3232 | mheny@mhepc.com

PENNSYLVANIA OFFICE

111 Wheatfield Drive, Suite 1, Milford, PA 18337 570-296-2765 | F: 570-296-2767 | mhepa@mhepc.com 12. The project is subject to ARB having greater than 10 lots. ARB approval by the Planning Board is required.

Respectfully submitted,

MHE Engineering, D.P.C.

Patrit & Offener

Patrick J. Hines Principal

PJH/kbw



Orange County Department of Planning

124 Main Street Goshen, NY 10924-2124 Tel: (845) 615-3840 Fax: (845) 291-2533 Alan J. Sorensen, AICP Commissioner

www.orangecountygov.com/planning planning@orangecountygov.com

County Reply – Mandatory Review of Local Planning Action as per NYS General Municipal Law §239-l, m, &n

Local Referring Bo	ard: Town of Newburgh Plann	ing Board Referral ID #: NBT35-21N
Applicant:	Elm Farm Assoc.	Tax Map #: 39-1-12.44
Project Name:	Elm Farm Subdivision	Local File #: 2021-15
Proposed Action:	52-Lot Residential Subdivision	
Reason for County	Review: Within 500 feet of Co	unty Route 86
Date of Full Statem	ent: September 17, 2021	

Comments:

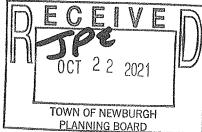
The Department has received the above referenced site plan for a 52-lot residential subdivision, storm water drainage plan, sewer service, water service, vehicular entrances and exits, and stormwater management basins in the R-2 Zoning District and has found no evidence that significant intermunicipal or countywide impacts would result from its approval. The Proposed Action involves the disturbance of the entire 47.21-acre project site, which presently consist of forest lands. We would like to offer the following advisory comments:

Forest and Tree Protection

1. It is our understanding this project has already received Preliminary Plat approval and that the applicant is seeking Final Plat approval. We recommend that the Planning Board use the Sketch Plan review process in the future to identify opportunities to modify project design to preserve existing forest or trees within the project or at least along the perimeter of the project site. Unfortunately, it appears too late in the review process to achieve this for the Proposed Action.

The presence or forested land aids in community adaptation and resilience to climate change. According to the New York State Forest Action Plan (2020), forests are the most productive terrestrial vegetation able to absorb carbon from carbon dioxide and have the greatest potential for keeping that carbon out of the atmosphere in the long term. Forest parcelization and fragmentation are two land use trends that cause several problems and result in degraded forest health. For these reasons, we recommend the Planning Board require applicants to complete a tree inventory demonstrating species and DBH (diameter at breast height) for all trees over 18". A tree survey would help to identify areas on the site where trees could be retained and incorporated into the project design.

We recommend that the Town to require the applicant compensate for the proposed tree loss by requiring the planting of trees on the project site as part the project development. In the event such trees cannot be planted on site, the municipality may have desirable locations, such as in local parks or along roadways.



Page 1 of 2

Wetlands and Hydrogeology

2. The natural hydrology of the site should be maintained to the maximum extent possible to prevent permanent wetland disruption of the NYDEC and Federal wetlands on the parcel. Post construction wetland impacts could result from normal residential activities as well. Creating and maintaining lawns, disposing of yard waste into wetlands, and altering natural vegetation are examples of actions that would modify the wetland complex and its natural function. We recommend the applicant flag the wetland areas on the ground to minimize disturbance during construction. The site plan should be amended to reflect this requirement.

Stormwater

3. Increasing a watershed's impervious surface has many consequences. The most significant are the increases in stormwater runoff, flooding, streambed erosion, as well as surface and groundwater pollution. The applicant is proposing 10.84 acres of impervious surface; we recommend that the applicant include Low Impact Development (LID) techniques to decrease stormwater runoff. Examples of LID techniques include permeable pavement, rain barrels, rain gardens, open drainage swales, curb-less parking areas and drywells. Benefits of LID include a reduction in runoff, erosion, water quality degradation, and the need for conventional stormwater detention facilities. Groundwater recharge can also be enhanced and natural aquatic habits will be less impacted.

Transportation

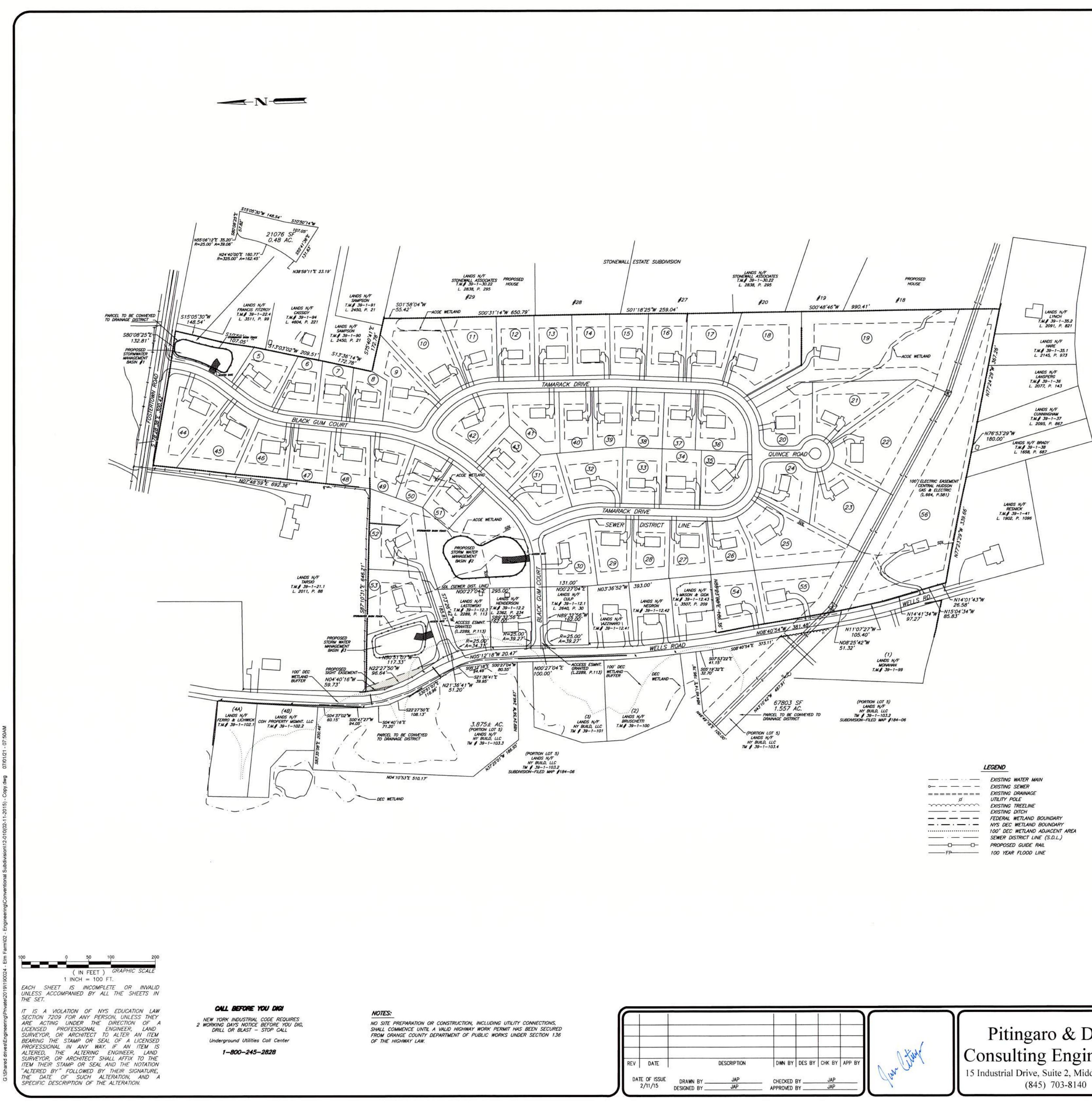
4. A valid highway work permit from Orange County Department of Public Works is required for the entrance curb cut along County Route 86 (Fostertown Road), per Section 136 of the Highway Law.

County Recommendation: Local Determination

Date: October 1, 2021 **Prepared by:** Jessica Ridgeway, Planner

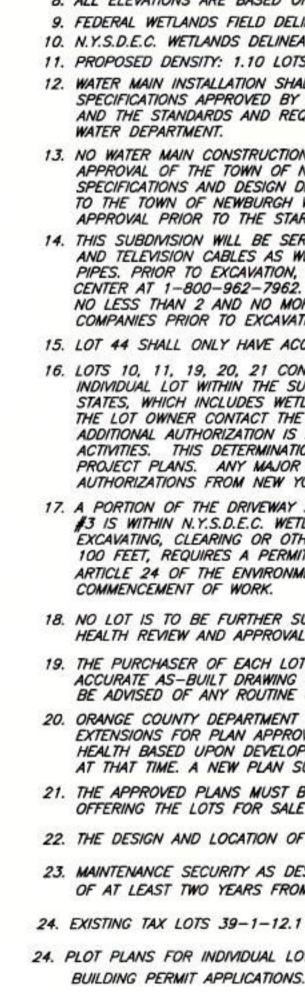
Alan J. Sorensen, AICP Commissioner of Planning

As per NYS General Municipal Law 239-m & n, within 30 days of municipal final action on the above referred project, the referring board must file a report of the final action taken with the County Planning Department. For such filing, please use the final action report form attached to this review or available on-line at www.orangecountygov.com/planning.

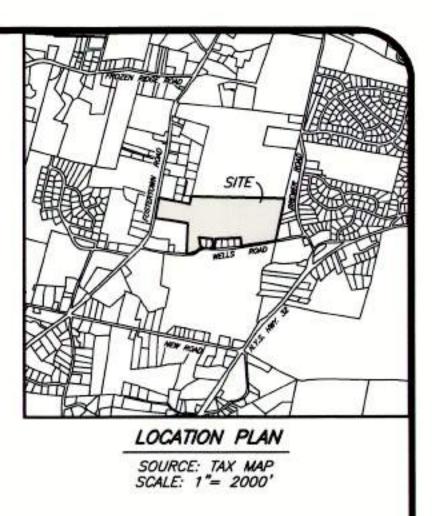


	
o	
~~~~~	,ø veren
-·-·	— · —
FP_	91.53

EXISTING WATER MAIN	
EXISTING SEWER	
EXISTING DRAINAGE	
EXISTING TREELINE EXISTING DITCH	
FEDERAL WETLAND BO	
100' DEC WETLAND AD SEWER DISTRICT LINE	WACENT AREA
PROPOSED GUIDE RAIL	5.1. 1 C C C C C
100 YEAR FLOOD LINE	



# Pitingaro & Doetsch Consulting Engineers, P.C. 15 Industrial Drive, Suite 2, Middletown NY 10941



## TABLE MINIMUM DIMENSIONS

ZONE DISTRICT - R	-2 (RESIDEN	TAL)
	PERMITTED	PROPOSEL
OT AREA	15,000 SF	16,503 S

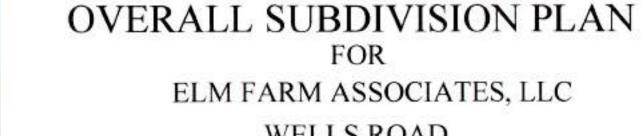
LOT AREA	15,000 SF	16,503 SF
LOT WIDTH AT BUILDING LINE	100'	100'
LOT DEPTH	125'	144.5'
FRONT YARD	40'	40'
REAR YARD	40'	47'
SIDE YARD(S)	15'/30'	15'/50'
MAXIMUM BUILDING HEIGHT	35'	35'
MAXIMUM LOT COVERAGE (BUILDING)	15%	<15%
MAXIMUM SURFACE COVERAGE	30%	<30%

NOTES:

- -----1. TAX MAP NUMBER: 39-1-12.44
- 2. AREA: 47.21± AC. 3. ZONE: R-2
- 4. TOTAL NUMBER OF LOTS: 52 (#5 #56)
- 5. BOUNDARY SURVEY BY: EUSTANCE & HOROWITZ, P.C. 6. TOPOGRAPHIC SURVEY BY: ROBINSON AERIAL SURVEYS, INC., 12/17/99 7. WATER AND SEWER SERVICE TO BE SUPPLIED BY THE TOWN OF NEWBURGH.
- 8. ALL ELEVATIONS ARE BASED ON U.S.G.S. DATUM.
- 9. FEDERAL WETLANDS FIELD DELINEATION: 12/11/12
- 10. N.Y.S.D.E.C. WETLANDS DELINEATION: 6/05/00 11. PROPOSED DENSITY: 1.10 LOTS/ACRE.
- 12. WATER MAIN INSTALLATION SHALL BE IN CONFORMANCE WITH PLANS AND SPECIFICATIONS APPROVED BY THE ORANGE COUNTY DEPARTMENT OF HEALTH, AND THE STANDARDS AND REQUIREMENTS OF THE TOWN OF NEWBURGH WATER DEPARTMENT.
- 13. NO WATER MAIN CONSTRUCTION SHALL BE PERMITTED WITHOUT PRIOR APPROVAL OF THE TOWN OF NEWBURGH WATER DEPARTMENT. MATERIAL SPECIFICATIONS AND DESIGN DETAILS AS REQUIRED MUST BE SUBMITTED TO THE TOWN OF NEWBURGH WATER DEPARTMENT FOR THEIR REVIEW AND APPROVAL PRIOR TO THE START OF WATER MAIN INSTALLATION. 14. THIS SUBDIVISION WILL BE SERVED BY UNDERGROUND ELECTRIC, TELEPHONE AND TELEVISION CABLES AS WELL AS WATER MAIN AND STORM DRAINAGE
- PIPES. PRIOR TO EXCAVATION, CALL NYS DIG SAFE UNDERGROUND UTILITIES CENTER AT 1-800-962-7962. NEW YORK INDUSTRIAL CODE 53 REQUIRES NO LESS THAN 2 AND NO MORE THAN 10 WORKING DAYS NOTICE TO UTILITY COMPANIES PRIOR TO EXCAVATION. 15. LOT 44 SHALL ONLY HAVE ACCESS TO INTERIOR SUBDIVISION ROAD.
- 16. LOTS 10, 11, 19, 20, 21 CONTAIN FEDERAL WETLAND. THE DEED FOR EACH INDIVIDUAL LOT WITHIN THE SUBDIVISION THAT CONTAINS WATERS OF THE UNITED STATES, WHICH INCLUDES WETLANDS, SHALL CONTAIN A CLAUSE REQUIRING THAT THE LOT OWNER CONTACT THE CORPS OF ENGINEERS TO DETERMINE IF ANY
- ADDITIONAL AUTHORIZATION IS REQUIRED PRIOR TO UNDERTAKING ANY JURISDICTIONAL ACTIVITIES. THIS DETERMINATION COVERS ONLY THE WORKS DESCRIBED IN THE PROPOSED PROJECT PLANS. ANY MAJOR CHANGES IN THE APPROVED PROJECT MAY REQUIRE ADDITIONAL AUTHORIZATIONS FROM NEW YORK DISTRICT.
- 17. A PORTION OF THE DRIVEWAY SERVING LOTS 52 AND 53 AND STORMWATER MANAGEMENT BASIN #3 IS WITHIN N.Y.S.D.E.C. WETLAND BUFFER AREA. ANY PROPOSED CONSTRUCTION, GRADING, FILLING, EXCAVATING, CLEARING OR OTHER REGULATED ACTIVITY WITHIN THE FRESHWATER WETLAND OR ADJACENT 100 FEET, REQUIRES A PERMIT FROM THE N.Y.S. DEPARTMENT OF ENVIRONMENTAL CONSERVATION UNDER ARTICLE 24 OF THE ENVIRONMENTAL CONSERVATION LAW (FRESHWATER WETLANDS ACT) PRIOR TO COMMENCEMENT OF WORK.
- 18. NO LOT IS TO BE FURTHER SUBDIVIDED WITHOUT ORANGE COUNTY DEPARTMENT OF HEALTH REVIEW AND APPROVAL
- 19. THE PURCHASER OF EACH LOT SHALL BE PROVIDED WITH A COPY OF THE APPROVED PLANS AND AN ACCURATE AS-BUILT DRAWING OF ANY EXISTING SANITARY FACILITIES. THE PURCHASER SHALL ALSO BE ADVISED OF ANY ROUTINE OR SPECIAL MAINTENANCE PROCEDURES THAT MAY BE NECESSARY. 20. ORANGE COUNTY DEPARTMENT OF HEALTH PLAN APPROVAL IS LIMITED TO 5 YEARS, TIME EXTENSIONS FOR PLAN APPROVAL MAY BE GRANTED BY THE ORANGE COUNTY DEPARTMENT OF HEALTH BASED UPON DEVELOPMENT FACTS AND THE REALTY SUBDIVISION REGULATIONS IN EFFECT AT THAT TIME. A NEW PLAN SUBMISSION MAY BE REQUIRED TO OBTAIN A TIME EXTENSION. 21. THE APPROVED PLANS MUST BE FILED WITH THE ORANGE COUNTY CLERK'S OFFICE PRIOR TO OFFERING THE LOTS FOR SALE AND WITHIN 90 DAYS OF THE LAST APPROVAL OF FINAL PLANS. 22. THE DESIGN AND LOCATION OF SANITARY FACILITIES (WATER & SEWER) SHALL NOT BE CHANGED.
- 23. MAINTENANCE SECURITY AS DESCRIBED IN SECTION 157-11 SHALL BE MAINTAINED FOR A PERIOD OF AT LEAST TWO YEARS FROM THE DATE OF ACCEPTANCE OF THE STORMWATR MANAGEMENT FACILITIES. 24. EXISTING TAX LOTS 39-1-12.1 AND 39-1-12.2 WILL HAVE DRIVEWAYS CONNECTED TO BLACK GUM COURT. 24. PLOT PLANS FOR INDIVIDUAL LOTS, INCLUDING PROPOSED GRADING, MUST BE SUBMITTED WITH

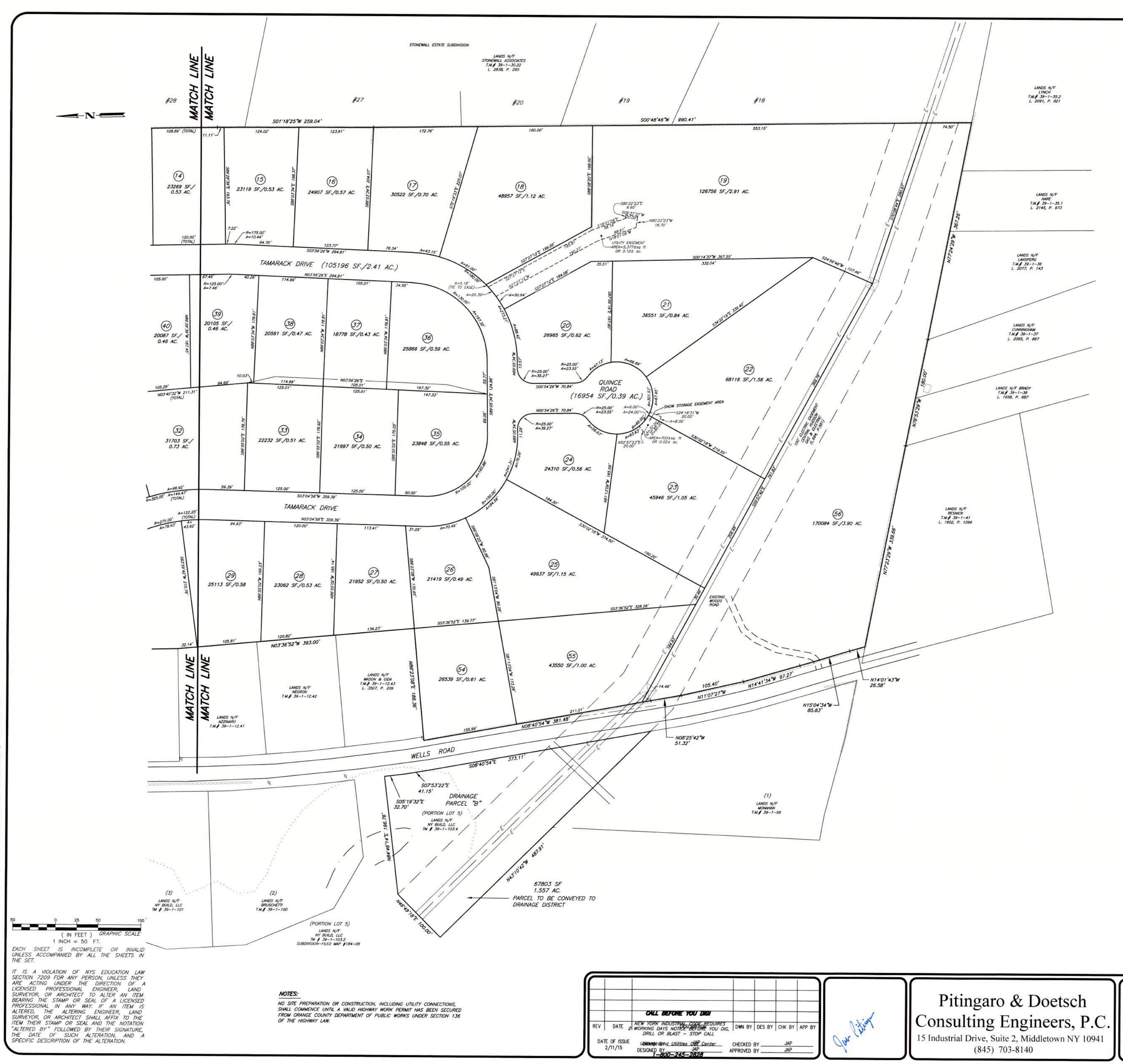
RECORD OWNER/SUBDIVIDER:

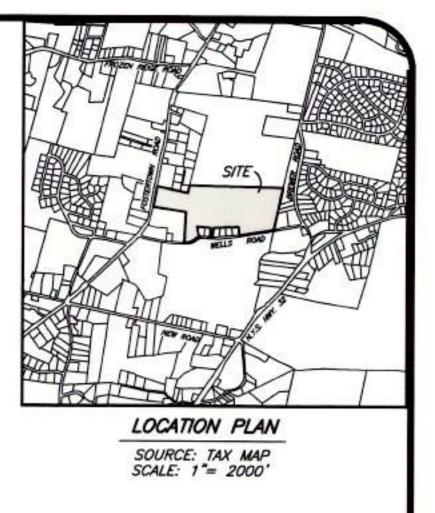
ELM FARM ASSOCIATES, LLC 8 OVERDELL LANE NEWBURGH, NY 12550



SHEET NO.

ELM FARM ASSOCIATES, LLC WELLS ROAD NEWBURGH, ORANGE COUNTY, NY





## TABLE MINIMUM DIMENSIONS ZONE DISTRICT - R-2 (RESIDENTIAL)

	. (	
	PERMITTED	PROPOSED
LOT AREA	15,000 SF	16,503 SF
LOT WIDTH AT BUILDING LINE	100'	100'
LOT DEPTH	125'	144.5'
FRONT YARD	40'	40'
REAR YARD	40'	47'
SIDE YARD(S)	15'/30'	15'/50'
MAXIMUM BUILDING HEIGHT	35'	35'
MAXIMUM LOT COVERAGE (BUILDING)	15%	<15%
MAXIMUM SURFACE COVERAGE	30%	<30%

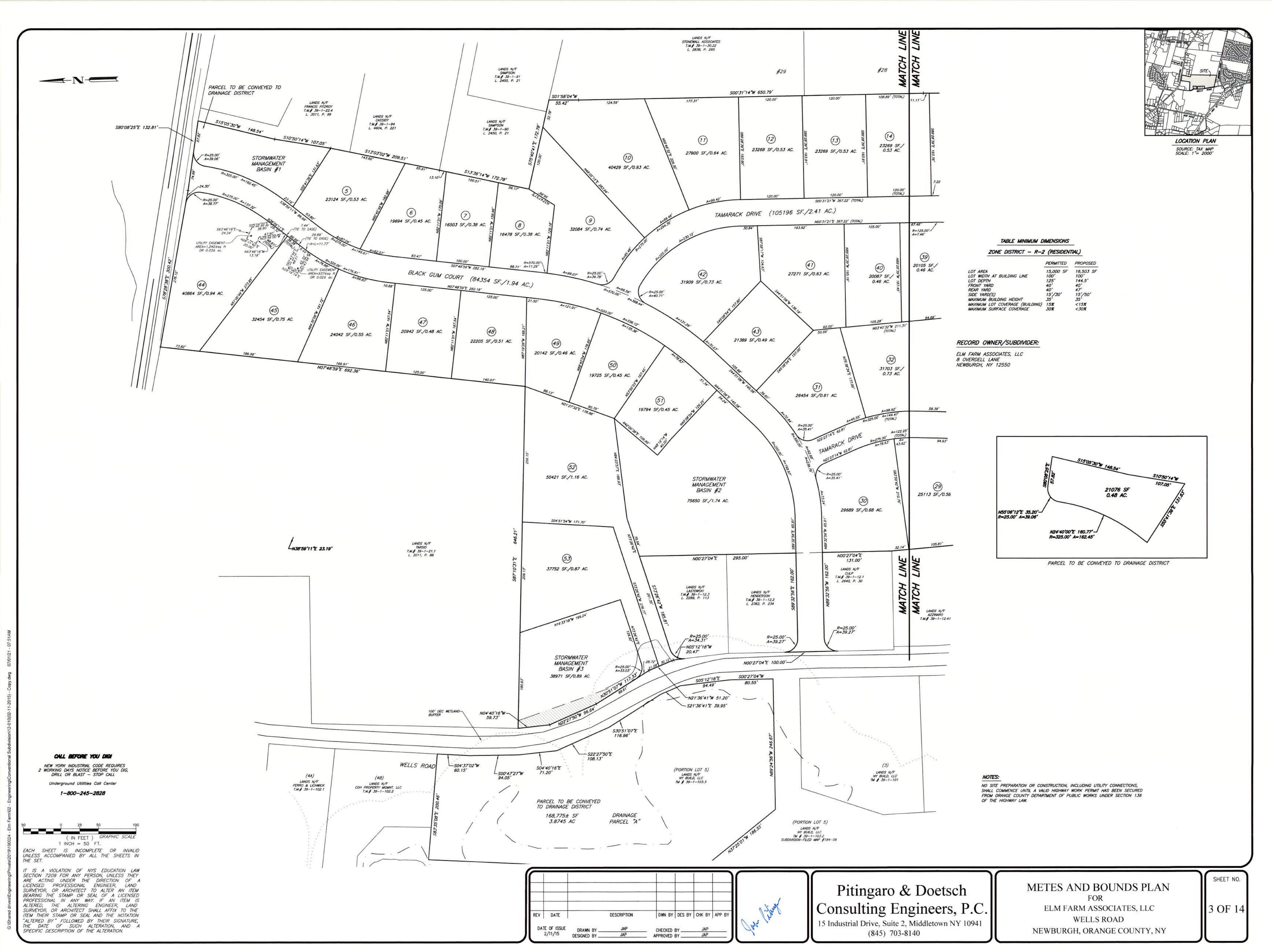
RECORD OWNER/SUBDIVIDER:

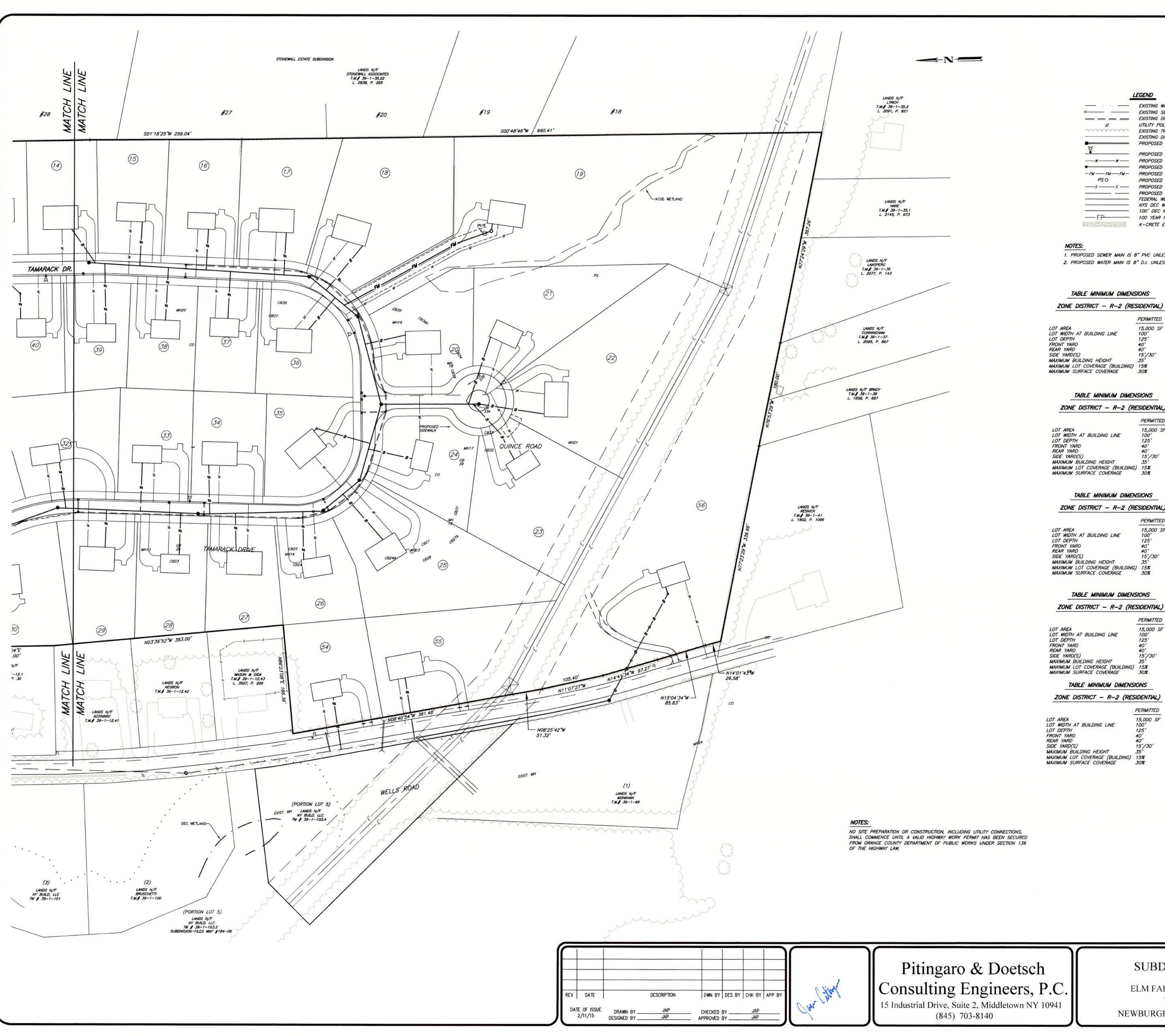
ELM FARM ASSOCIATES, LLC 8 OVERDELL LANE NEWBURGH, NY 12550

METES AND BOUNDS PLAN FOR ELM FARM ASSOCIATES, LLC WELLS ROAD

NEWBURGH, ORANGE COUNTY, NY

SHEET NO.





LOCATION PLAN

SOURCE: TAX MAP SCALE: 1"= 2000'

LEGEND

-	LEGEND
	EXISTING WATER MAIN
o	EXISTING SEWER
	EXISTING DRAINAGE
ø	UTILITY POLE
mmmmm	EXISTING TREELINE
	EXISTING DITCH
<b>۳</b>	PROPOSED STORM DRAINAGE
ě.	PROPOSED WATER MAIN W/HYDRANT
w	PROPOSED WATER SERVICE
•	PROPOSED SEWER W/MANHOLE
-FMFMFM	PROPOSED SEWER FORCE MAIN
PSO	PROPOSED PUMP STATION
<u> </u>	PROPOSED SEWER SERVICE
	PROPOSED GUIDE RAIL
	FEDERAL WETLAND BOUNDARY
	NYS DEC WETLAND BOUNDARY
<del>//</del>	100' DEC WETLAND ADJACENT AREA
	100 YEAR FLOOD LINE
Inchempersonante	K-CRETE ENCASEMENT

## NOTES:

1. PROPOSED SEWER MAIN IS 8" PVC UNLESS OTHERWISE NOTED 2. PROPOSED WATER MAIN IS 8" D.I. UNLESS OTHERWISE NOTED

## TABLE MINIMUM DIMENSIONS

ZONE DISTRICT - R-2 (RESIDENTIAL)

	PERMITTED	PROPOSED	Lot 15	Lot 16	Lot 17	Lot 18	Lot 19
AREA	15,000 SF	16,503 SF	23119 SF	24907 SF	30522 SF	48957 SF	126756 SF
WIDTH AT BUILDING LINE	100'	100'	115'	124'	125'	124'	225'
DEPTH	125'	145'	194'	198'	204'	199'	475'
IT YARD	40'	40'	40'	40'	40'	40'	40'
YARD	40'	47'	47'	47'	47'	47'	47'
YARD(S)	15'/30'	15'/50'	15'/50'	15'/50'	15'/50'	15'/50'	15'/50'
NUM BUILDING HEIGHT	35'	35'	35'	35'	35'	35'	35'
NUM LOT COVERAGE (BUILDING)	15%	<15%	<15%	<15%	<15%	<15%	<15%
NUM SURFACE COVERAGE	30%	<30%	<30%	<30%	<30%	<30%	<30%

## TABLE MINIMUM DIMENSIONS

ZONE DISTRICT - R-2 (RESIDENTIAL)

	PERMITTED	Lot 20	Lot 21	Lot 22	Lot 23	Lot 24	Lot 25
AREA	15,000 SF	26965 SF	39651 SF	68116 SF	45946 SF	24310 SF	49937 SF
WIDTH AT BUILDING LINE	100'	148'	105'	120'	114'	132'	118'
DEPTH	125'	158'	168'	220'	166'	166'	353'
NT YARD	40'	40'	40'	40'	40'	40'	40'
R YARD	40'	47'	47'	47'	47'	47'	47'
E YARD(S)	15'/30'	15'/50'	15'/50'	15'/50'	15'/50'	15'/50'	15'/50'
IMUM BUILDING HEIGHT	35'	35'	35'	35'	35'	35'	35'
(IMUM LOT COVERAGE (BUILDING)	15%	<15%	<15%	<15%	<15%	<15%	<15%
IMUM SURFACE COVERAGE	30%	<30%	<30%	<30%	<30%	<30%	<30%

## TABLE MINIMUM DIMENSIONS

ZONE DISTRICT - R-2 (RESIDENTIAL)

	PERMITTED	Lot 26	Lot 27	Lot 28	Lot 29	Lot 33	Lot 34
AREA	15,000 SF	21419 SF	21952 SF	23062 SF	25113 SF	22232 SF	21998 SF
WIDTH AT BUILDING LINE	100'	116'	118'	120'	132'	125'	125'
DEPTH	125'	191'	171'	185'	199'	177'	175'
NT YARD	40'	40'	40'	40'	40'	40'	40'
R YARD	40'	47'	47'	47'	47'	47'	47'
YARD(S)	15'/30'	15'/50'	15'/50'	15'/50'	15'/50'	15'/50'	15'/50'
IMUM BUILDING HEIGHT	35'	35'	35'	35'	35'	35'	35'
IMUM LOT COVERAGE (BUILDING)	15%	<15%	<15%	<15%	<15%	<15%	<15%
IMUM SURFACE COVERAGE	30%	<30%	<30%	<30%	<30%	<30%	<30%

## TABLE MINIMUM DIMENSIONS

Lot 36 Lot 3	7 Lot 38	Lot 39	Lot 40
5869 SF 18778	SF 20561 SF	20105 SF	20087 SF
25' 105'	115'	113'	105'
57' 179'	179'	179'	182'
oʻ 40'	40'	40'	40'
7' 47'	47'	47'	47'
5'/50' 15'/50	' 15'/50'	15'/50'	15'/50'
5' 35'	35'	35'	35'
15% <15%	<15%	<15%	<15%
30% <30%	<30%	<30%	<30%
5255	5869 SF 18778 105' 105' 179' 179' 40' 40' 7' 47' 5'/50' 15'/50 35' 15% <15%	5869 SF    18778 SF    20561 SF      55'    105'    115'      57'    179'    179'      60'    40'    40'      7'    47'    47'      5'/50'    15'/50'    15'/50'      5'    35'    35'      15%    <15%	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

## TABLE MINIMUM DIMENSIONS

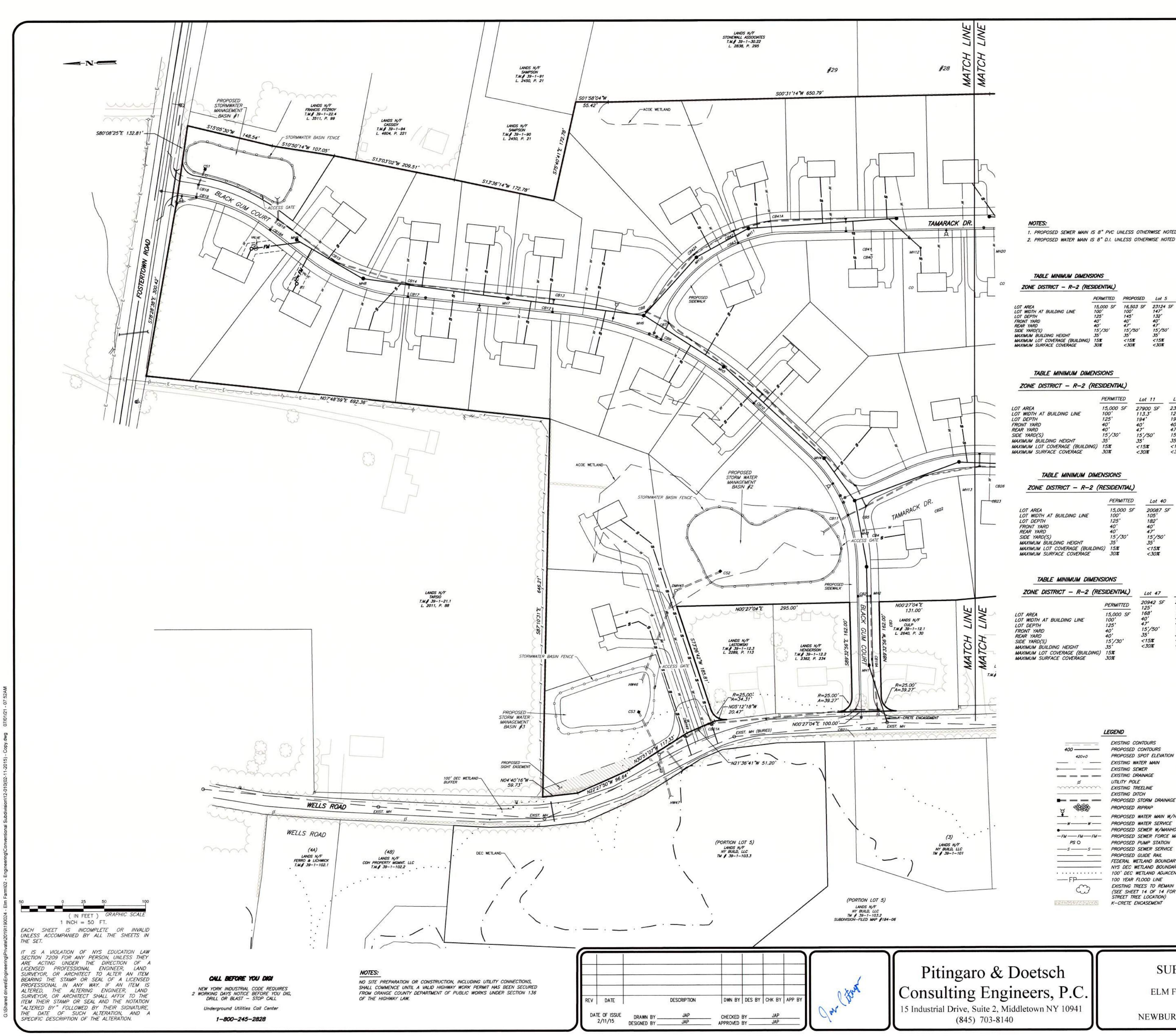
ZONE DISTRICT - R-2 (RE	SIDENTIAL)	Lot 56	Lot 57	Lot 58
	PERMITTED	26539 SF 152'	43550 SF 241'	170084 SF 371'
LOT AREA LOT WIDTH AT BUILDING LINE LOT DEPTH FRONT YARD REAR YARD SIDE YARD(S) MAXIMUM BUILDING HEIGHT MAXIMUM LOT COVERAGE (BUILDING) MAXIMUM SURFACE COVERAGE	15,000 SF 100' 125' 40' 40' 15'/30' 35' 15% 30%	174' 40' 47' 15'/50' 35' <15% <30%	174' 40' 47' 15'/50' 35' <15% <30%	885' 40' 47' 15'/50' 35' <15% <30%

( IN FEET ) GRAPHIC SCALE 1 INCH = 50 FT.

EACH SHEET IS INCOMPLETE OR INVALID UNLESS ACCOMPANIED BY ALL THE SHEETS IN THE SET.

IT IS A VIOLATION OF NYS EDUCATION LAW SECTION 7209 FOR ANY PERSON, UNLESS THEY SECTION 7209 FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, LAND SURVEYOR, OR ARCHITECT TO ALTER AN ITEM BEARING THE STAMP OR SEAL OF A LICENSED PROFESSIONAL IN ANY WAY. IF AN ITEM IS ALTERED, THE ALTERING ENGINEER, LAND SURVEYOR, OR ARCHITECT SHALL AFFIX TO THE ITEM THEIR STAMP OR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

SUBDIVISION PLAN	SHEET NO.
FOR ELM FARM ASSOCIATES LLC	1 05 14
ELM FARM ASSOCIATES, LLC WELLS ROAD	4 OF 14
NEWBURGH, ORANGE COUNTY, NY	



LOCATION PLAN

SOURCE: TAX MAP SCALE: 1"= 2000'

1. PROPOSED SEWER MAIN IS 8" PVC UNLESS OTHERWISE NOTED

	PERMITTED	PROPOSED	Lot 5	Lot 6	Lot 7	Lot 8	Lot 9	Lot 10
	15,000 SF 100' 125' 40' 40'	16,503 SF 100' 145' 40' 47'	23124 SF 147' 132' 40' 47'	19694 SF 131' 170' 40' 47'	16503 SF 100' 160' 40' 47'	16478 SF 110' 129' 40' 47'	32085 141' 226' 40' 47'	40429 SF 114' 226' 40' 47' 15'/50'
G)	15'/30' 35' 15 <b>%</b> 30%	15'/50' 35' <15% <30%	15'/50' 35' <15% <30%	15'/50' 35' <15% <30%	15'/50' 35' <15% <30%	15'/50' 35' <15% <30%	15'/50' 35' <15% <30%	15'/50' 35' <15% <30%

	PERMITTED	Lot 11	Lot 12	Lot 13	Lot 14	Lot 30	Lot 31	Lot 32	
	15,000 SF 100' 125' 40' 40'	27900 SF 113.3' 194' 40' 47'	23268 SF 120' 194' 40' 47'	23269 SF 120' 194' 40' 47'	23269 SF 120' 194' 40' 47'	29689 SF 159' 146' 40' 47'	26454 SF 149' 131' 40' 47'	31703 SF 171' 177' 40' 47'	
DING)	15'/30' 35' 15% 30%	15'/50' 35' <15% <30%	15'/50' 35' <15% <30%	15'/50' 35' <15% <30%	15'/50' 35' <15% <30%	15'/50' 35' <15% <30%	15'/50' 35' <15% <30%	15'/50' 35' <15% <30%	

	PERMITTED	Lot 40	Lot 41	Lot 42	Lot 43	Lot 44	Lot 45	Lot 46	
VE	15,000 SF 100' 125' 40'	20087 SF 105' 182' 40'	27270 SF 163' 199' 40'	31909 SF 246' 141' 40'	21389 SF 136' 157' 40'	40864 SF 191' 274' 40'	32454 SF 125' 192' 40'	24042 SF 123' 168' 40'	
BUILDING) GE	40' 15'/30' 35' 15% 30%	47' 15'/50' 35' <15% <30%	47 15'/50' 35' <15% <30%	47' 15'/50' 35' <15% <30%	47 15'/50' 35' <15% <30%	47' 15'/50' 35' <15% <30%	4/ 15'/50' 35' <15% <30%	47' 15'/50' 35' <15% <30%	

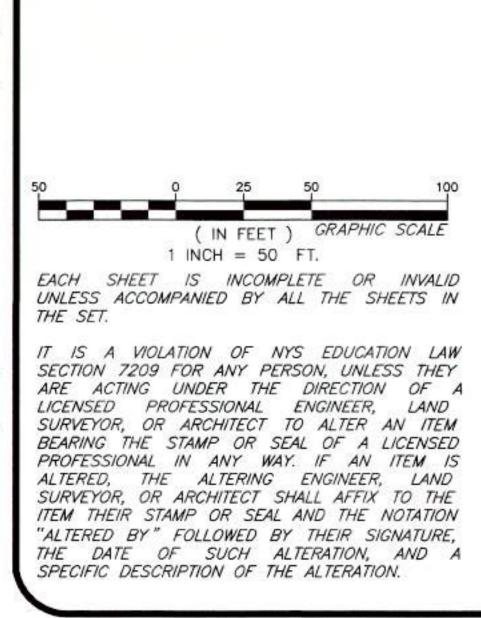
2 (RE	SIDENTIAL)	Lot 47	Lot 48	Lot 49	Lot 50	Lot 51	Lot 52	Lot 53
	PERMITTED	20942 SF 125'	22205 SF 129'	20142 SF 131'	19725 SF 125'	19794 SF 124'	50420 SF 195'	37752 SF 224'
	15,000 SF 100' 125' 40' 40' 15'/30' 35'	168' 40' 47' 15'/50' 35' <15% <30%	168' 40' 47' 15'/50' 35' <15% <30%	168' 40' 47' 15'/50' 35' <15% <30%	167' 40' 47' 15'/50' 35' <15% <30%	166' 40' 47' 15'/50' 35' <15% <30%	190' 40' 47' 15'/50' 35' <15% <30%	175' 40' 47' 15'/50' 35' <15% <30%
I DING								

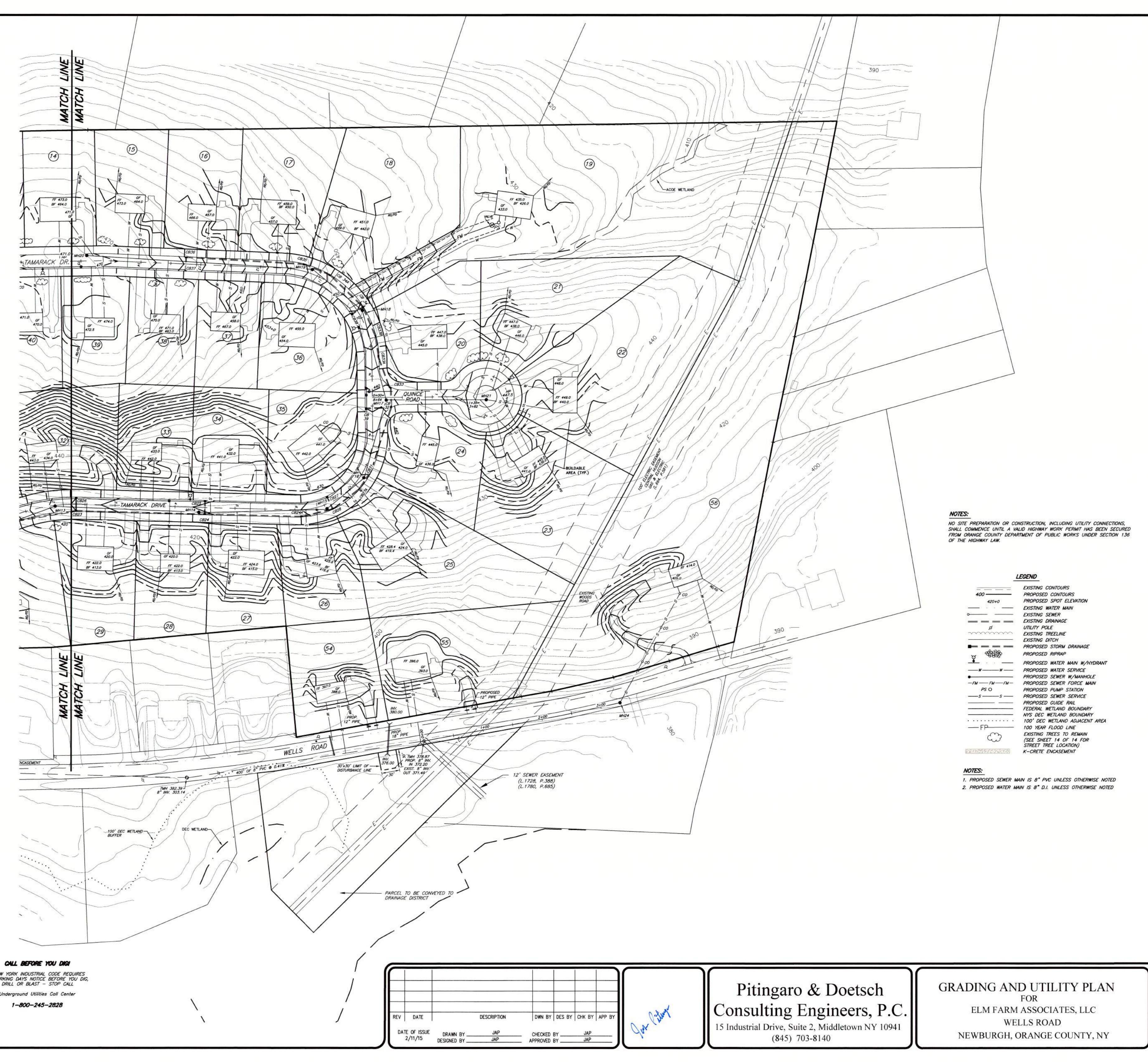
	LEGEND
	EXISTING CONTOURS
400	PROPOSED CONTOURS
420+0	PROPOSED SPOT ELEVATION
	EXISTING WATER MAIN
o	EXISTING SEWER
	EXISTING DRAINAGE
ø	UTILITY POLE
mmm	EXISTING TREELINE
	EXISTING DITCH
	PROPOSED STORM DRAINAGE
7 <b>***</b>	PROPOSED RIPRAP
· · · · · · · · · · · · · · · · · · ·	PROPOSED WATER MAIN W/HYDRAN
w	PROPOSED WATER SERVICE
•	PROPOSED SEWER W/MANHOLE
-FM FM FM	PROPOSED SEWER FORCE MAIN
PS O	PROPOSED PUMP STATION
ss	PROPOSED SEWER SERVICE
	PROPOSED GUIDE RAIL
	FEDERAL WETLAND BOUNDARY
States and the second second	NYS DEC WETLAND BOUNDARY
	100' DEC WETLAND ADJACENT AREA
FP	100 YEAR FLOOD LINE
ŝ	EXISTING TREES TO REMAIN
Lud .	(SEE SHEET 14 OF 14 FOR STREET TREE LOCATION)
	K-CRETE ENCASEMENT

SUBDIVISION PLAN FOR ELM FARM ASSOCIATES, LLC WELLS ROAD NEWBURGH, ORANGE COUNTY, NY

SHEET	NO.



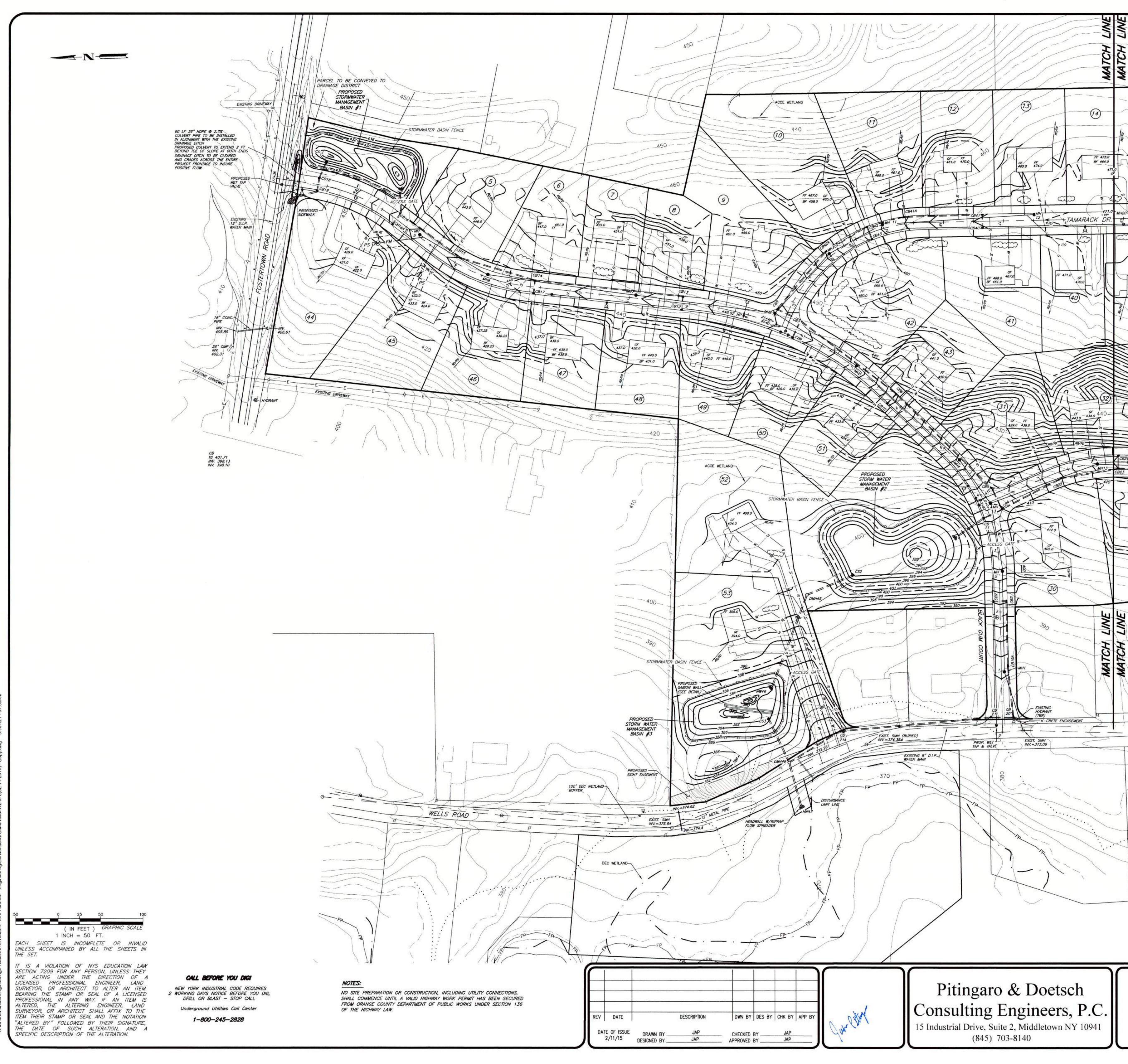


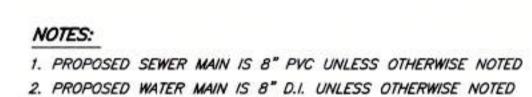


NEW YORK INDUSTRIAL CODE REQUIRES 2 WORKING DAYS NOTICE BEFORE YOU DIG, DRILL OR BLAST - STOP CALL Underground Utilities Call Center 1-800-245-2828

DWN BY	DES BY	CHK BY	APP BY
HECKED	BY	JAP	
PROVED		JAP	

SHEET NO.





N N

MH20

-

.

_

-----

## LEGEND

EXISTING CONTOURS

40		
	420-	40
	. 1) 1	_
°		
-	-	
	ø	
~~~	~~~	$\sim\sim\sim$
	-	20
ğ	<i>4</i> 8	38
	42. 3	~
W		- W
		- N
		-
-FM-	-FM	-FM-
3	PSO	
S		-5
	-	<u> </u>

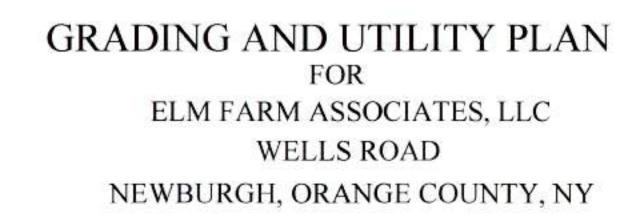
EXISTING DITCH PROPOSED RIPRAP -FP------ 100 YEAR FLOOD LINE

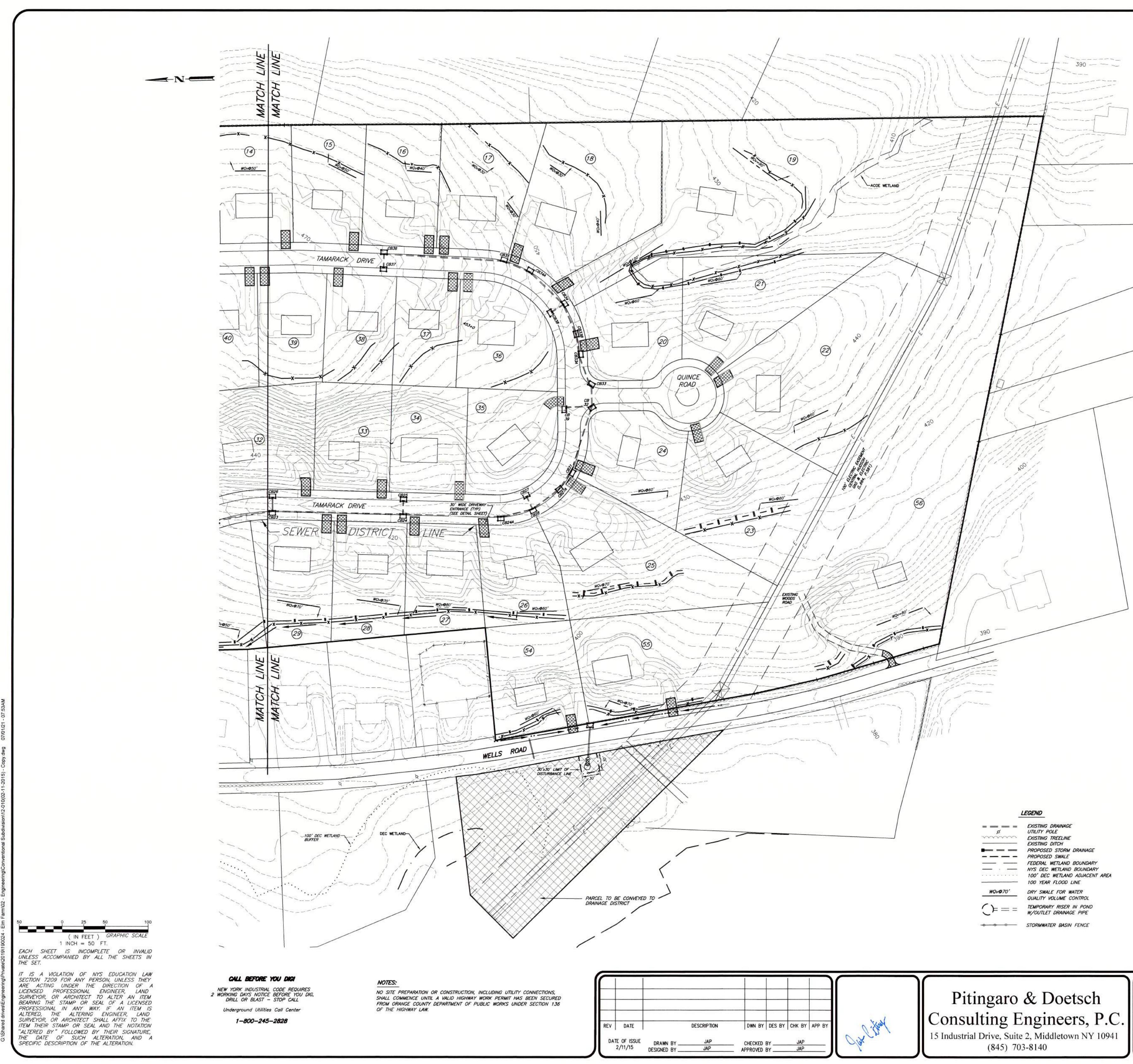
Participation of the second second

 \mathfrak{G}

PROPOSED CONTOURS PROPOSED SPOT ELEVATION - EXISTING WATER MAIN - EXISTING SEWER EXISTING DRAINAGE UTILITY POLE C EXISTING TREELINE PROPOSED STORM DRAINAGE - PROPOSED WATER MAIN W/HYDRANT - PROPOSED WATER SERVICE - PROPOSED SEWER W/MANHOLE - PROPOSED SEWER FORCE MAIN PROPOSED PUMP STATION - PROPOSED SEWER SERVICE - PROPOSED GUIDE RAIL - FEDERAL WETLAND BOUNDARY - NYS DEC WETLAND BOUNDARY · 100' DEC WETLAND ADJACENT AREA EXISTING TREES TO REMAIN (SEE SHEET 14 OF 14 FOR STREET TREE LOCATION) K-CRETE ENCASEMENT

SHEET NO.





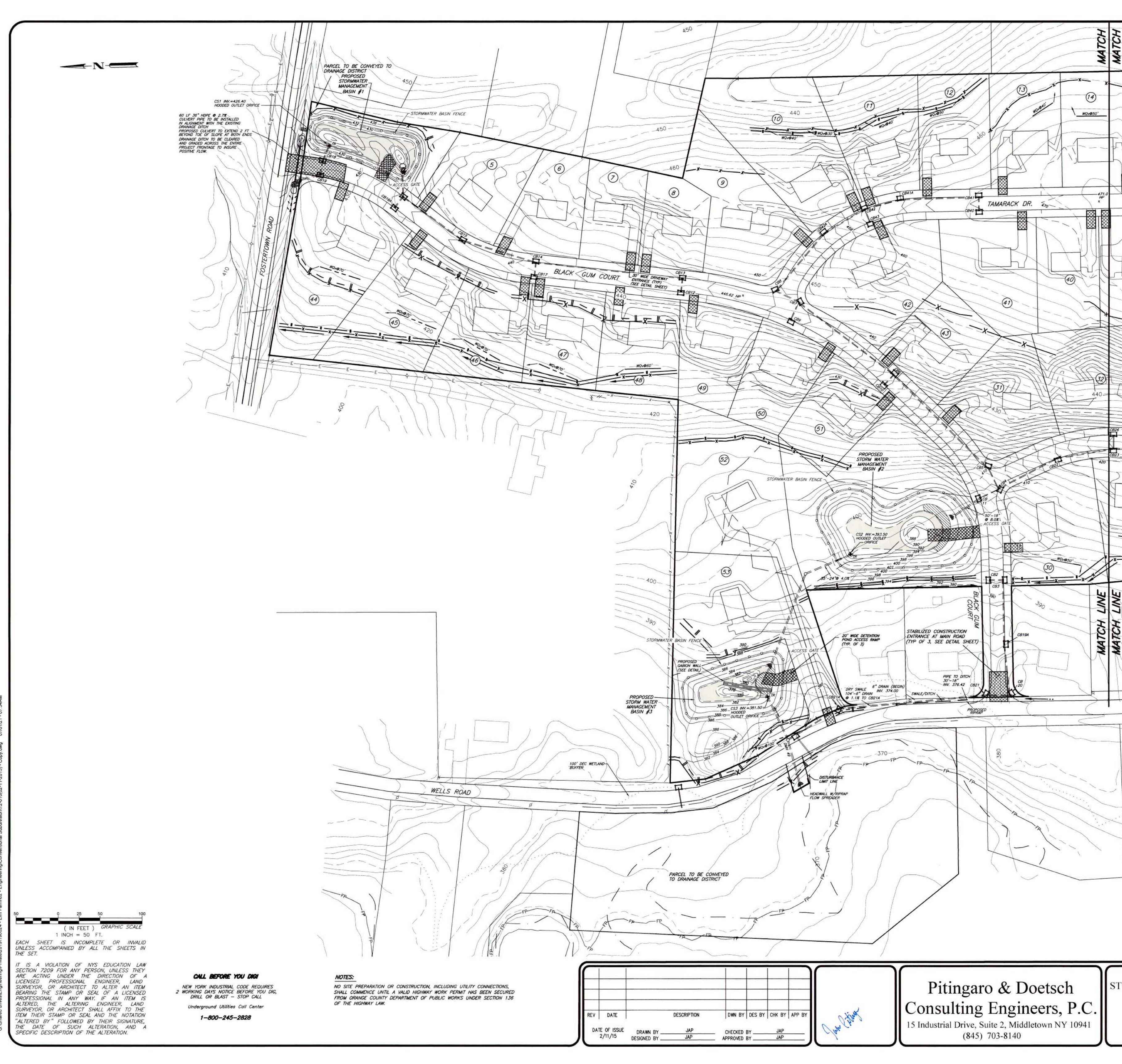
EROSION CONTROL NOTES AND LEGEND _____

- HAYBALE SILT BARRIER ____

----- FILTER CLOTH SILT BARRIER SILT TRAPS, WHICH SHALL CONSIST OF SILT FENCE PLACED AROUND CATCH BASINS TEMPORARY DIVERSION SWALE ----- PERMANENT DIVERSION SWALE 5' K 6"-9" RIP-RAP STONE, 9"+/- DEEP, PERMANENTLY INSTALLED. TEMPORARY COVER OF RYE GRASS OR MULCH SHALL BE APPLIED ON ALL DISTURBED LAND LEFT BARE FOR MORE THAN 7-14 DAYS. (1/2 LB. OF RYE GRASS PER 1000 S.F., OR 100 LBS. OF HAY OR STRAW PER 1000 S.F.)

STORMWATER POLLUTION PREVENTION PLAN FOR ELM FARM ASSOCIATES, LLC WELLS ROAD NEWBURGH, ORANGE COUNTY, NY

SHEET NO.



EROSION CONTROL NOTES AND LEGEND



X

SILT TRAPS, WHICH SHALL CONSIST OF SILT FENCE PLACED AROUND CATCH BASINS

TEMPORARY DIVERSION SWALE

5'

-

/X---

6"-9" RIP-RAP STONE, 9"+/- DEEP, PERMANENTLY INSTALLED. TEMPORARY COVER OF RYE GRASS OR MULCH SHALL BE APPLIED ON ALL DISTURBED LAND LEFT BARE FOR MORE THAN 7–14 DAYS. (1/2 LB. OF RYE GRASS PER 1000 S.F., OR 100 LBS. OF HAY OR STRAW PER 1000 S.F.)

LEGEND

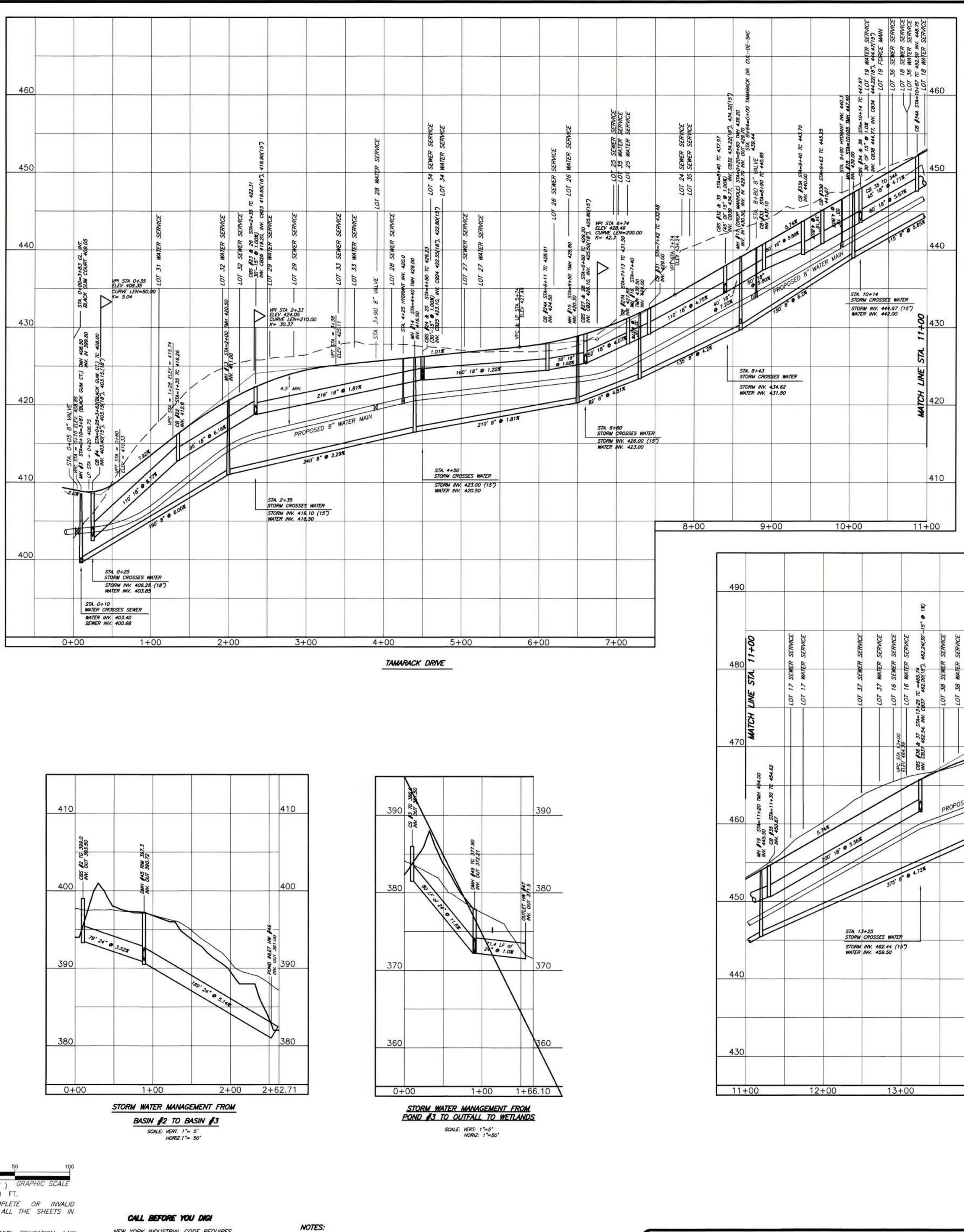
\sim	ø	~	~
-	_		
		-	
	Qv@;		8

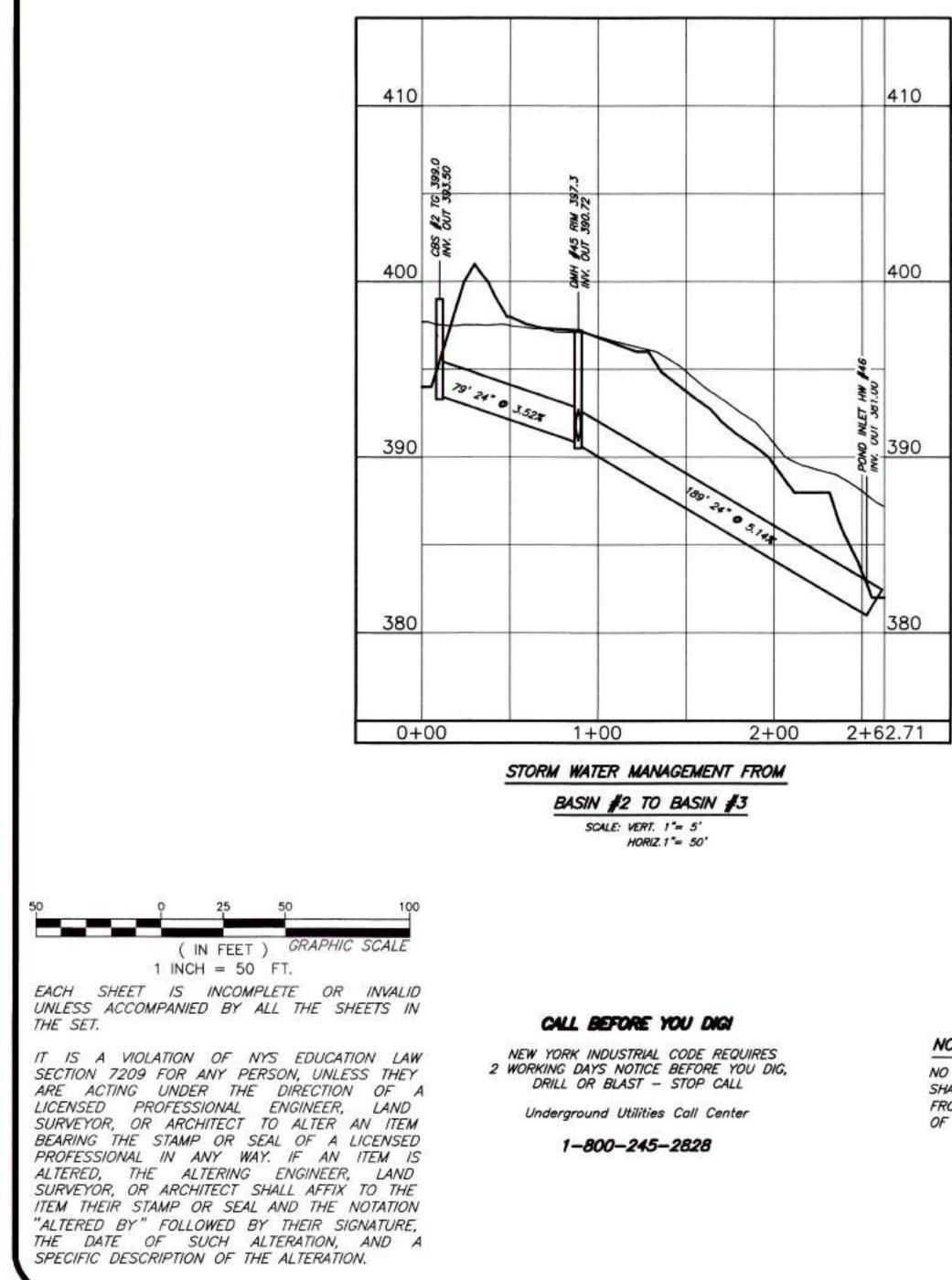
r = = =

EXISTING DRAINAGE UTILITY POLE EXISTING TREELINE EXISTING DITCH PROPOSED STORM DRAINAGE PROPOSED SWALE FEDERAL WETLAND BOUNDARY NYS DEC WETLAND BOUNDARY 100' DEC WETLAND ADJACENT AREA 100 YEAR FLOOD LINE DRY SWALE FOR WATER QUALITY VOLUME CONTROL TEMPORARY RISER IN POND W/OUTLET DRAINAGE PIPE

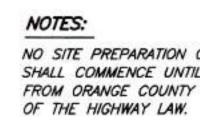
STORMWATER POLLUTION PREVENTION PLAN FOR ELM FARM ASSOCIATES, LLC 9 OF 14 WELLS ROAD NEWBURGH, ORANGE COUNTY, NY

SHEET NO.





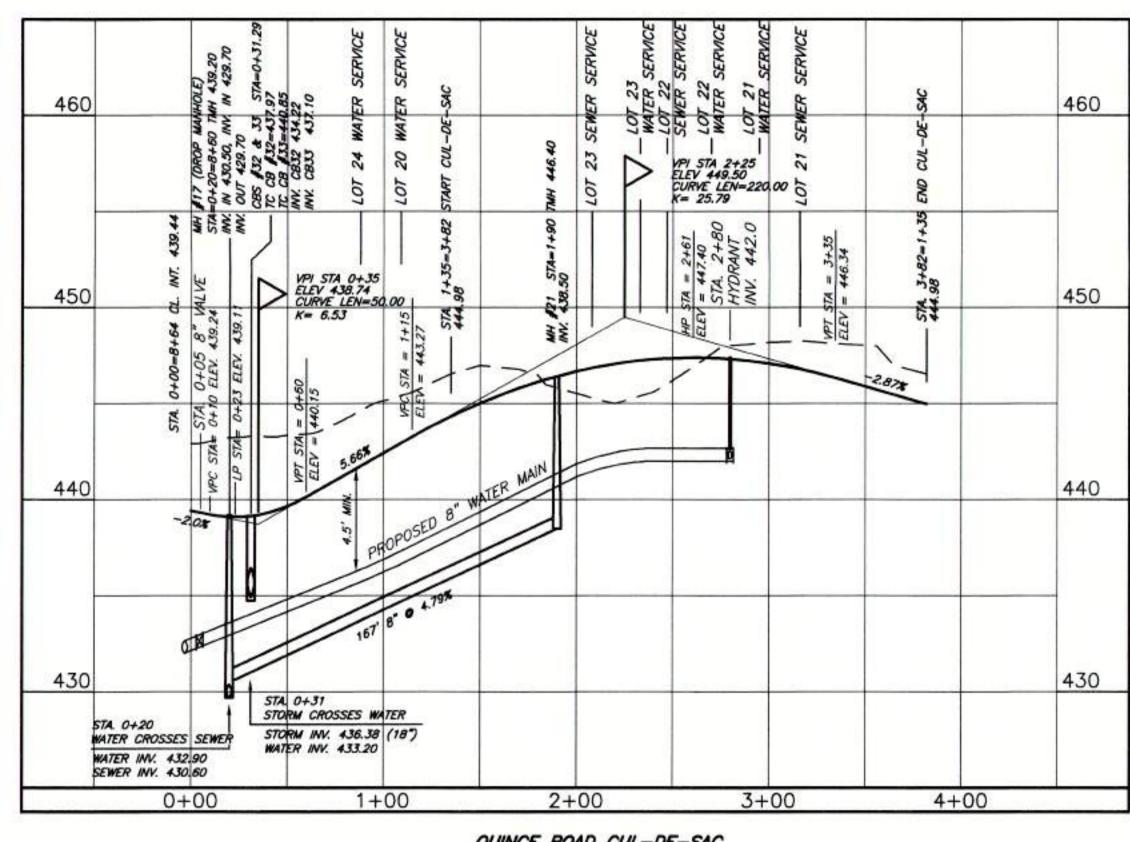
NEW YORK INDUSTRIAL CODE REQUIRES 2 WORKING DAYS NOTICE BEFORE YOU DIG, DRILL OR BLAST - STOP CALL Underground Utilities Call Center 1-800-245-2828



THE SET.

ON	OR	CONST	TRUC	TION	INCLU	DING (JTILITY	CONNE	CTIONS,	
UNT	IL A	VALID	HIG	HWA	Y WORK	PERM	IT HAS	BEEN	SECURE	D
INTY	DE	PARTM	ENT	OF	PUBLIC	WORK.	S UNDE	R SEC	TION 136	5

REV	DATE		DESCRIPTION	
DAT	e of Issue 2/11/15	DRAWN BY DESIGNED BY	JAP JAP	A



SERVICI SERVICI SERVICI SERVICI NATER NATER SEWER SEWER S 13 42 24 39 5 5 101 101 101 10 TIT VPI STA 14+50 ELEV 473.00 CURVE LEN=300.00 K= 40.63 8 8 120 NA. 6840 6840 468.0 451 WH. 8¥ £1 -1.658 WATER WATER 18. 0 2.828 250' 8' 0 3.925 STA. 17+35 STORM CROSSES WATER STORM INV. 465.00 (15") WATER INV. 462.70 15+00 16+00 17+00 18+00 14+00

TAMARACK DRIVE

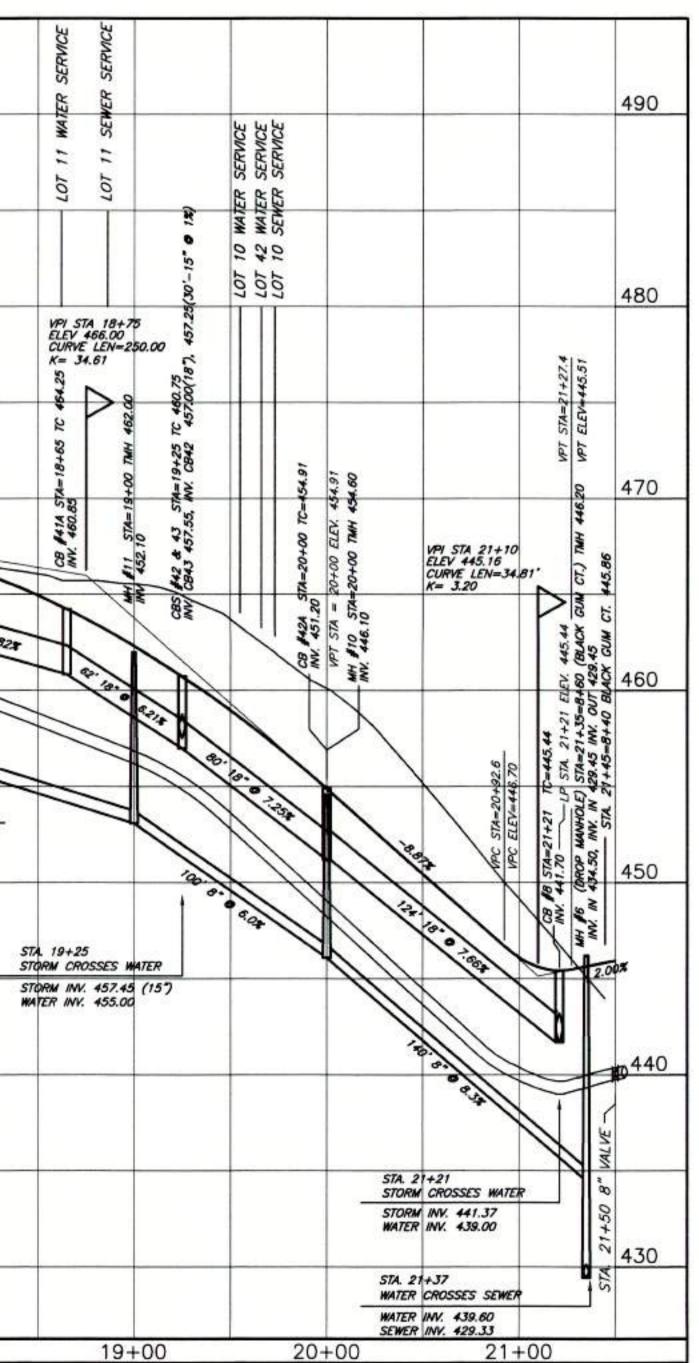
------DWN BY DES BY CHK BY APP BY CHECKED BY _____ JAP APPROVED BY _____ JAP



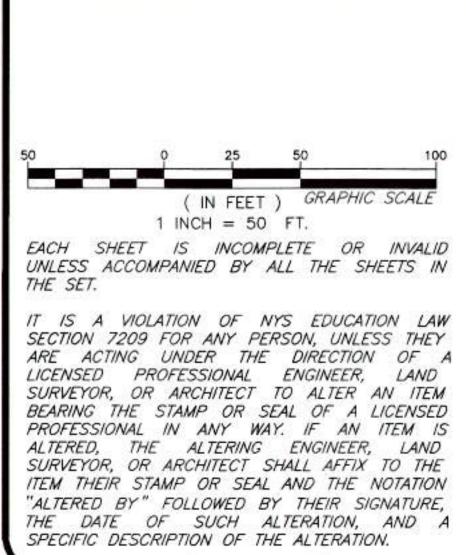
Pitingaro & Doetsch Consulting Engineers, P.C. 15 Industrial Drive, Suite 2, Middletown NY 10941

(845) 703-8140

QUINCE ROAD CUL-DE-SAC



ROAD PROFILES FOR ELM FARM ASSOCIATES, LLC WELLS ROAD NEWBURGH, ORANGE COUNTY, NY SHEET NO.



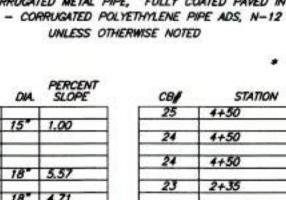
270	9+03	443.23	441.0/	-	_	-
338	9+63	445.25	441.67	-	-	
				34'	18"	4.80
334	9+40	443.70	440.00			
1	Constant -			50	18"	5.80
33	8+90	440.85	437.10	1.00	100	-
32	8+40	437.97	434.22	40'	18	7.20
-34-	0740	+37.37	434.22		-	-
39	8+40	437.97	434.77	-	-	-
			1	45'	15	1.00
32	8+40	437.97	434.32	10021	12-11	1.000
-						
32	8+40	437.97	434.22	110	100	1 70
31	7+42	432.48	429.00	110	18	4.75
51	1746	102.10	423.00	32'	18	4.07
27A	7+13	431.50	427.69	102	10	17.07
	1.1.1		1	52'	18"	4.07
27	6+60	429.20	426.10	1000	10000	
10.00				30'	15	1.00
28	6+60	429.20	425.50		-	-
27A	7.17	171 60	427.69		-	-
2/14	7+13	431.50	427.09	52'	18"	4.07
28	6+60	429.20	425.50	1.00	10	7.07
1.1.200.0			140.00	55'	18"	1.82
244	6+11	428.01	424.50			
				160'	18"	1.22
24	4+50	426.23	422.55			1

STATION

37 13+25

36 13+25

NOTES: NO SITE PREPARATION OR CONSTRUCTION, INCLUDING UTILITY CONNECTIONS, SHALL COMMENCE UNTIL A VALID HIGHWAY WORK PERMIT HAS BEEN SECURED FROM ORANGE COUNTY DEPARTMENT OF PUBLIC WORKS UNDER SECTION 136 OF THE HIGHWAY LAW.



410	0.8				18 TC 39
	TO BE VERIFIED				1-2+
400	550 62	VPI STA 0+50 ELEV 379.87 CVE. LEN=50.00 K= 6.13	P VPI	574_1+57	CBS #2 4 3 ST (30' OF #5" 0 1.
390	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	WPT STA = 0+75 ELEV. 381.41 WPC STA = 0+80 ELEV. 381.41 WPC STA = 0+80 ELEV. 381.71 MPL N. (DROP MUNHOLE) STA=1+00 TMH 382.	CB 194 574-	TA 1+57 386.45 E LEN-154.00 40.00	
380	T EFE	6.15X		ST B	
370	(SEWER ENCASED IN K-CRETE) STA STA. 0+08 WATER CRO SEWER INV. WATER INV.	8" @ 0.5% NH CROSSES W NH INV. 376.87 TER INV. 374.50 ISSES SEWER 373.12 374.30	ATER		
	0+00	1+0	00	2+0	00

460

450

440

430

420

CMP - CORRUGATED METAL PIPE, FULLY COATED PAVED IN CPEP - CORRUGATED POLYETHYLENE PIPE ADS, N-12

STORM DRAINAGE RCP - REINFORCED CONCRETE PIPE, TYPE III * * TAMARACK DRIVE * * DN TOP CURB INVERT LENGTH DIA PERCENT 465.74 462.54 465.74 462.24 465.74 462.24
 36
 13+25
 465.74
 462.00
 200'
 18*
 5.57

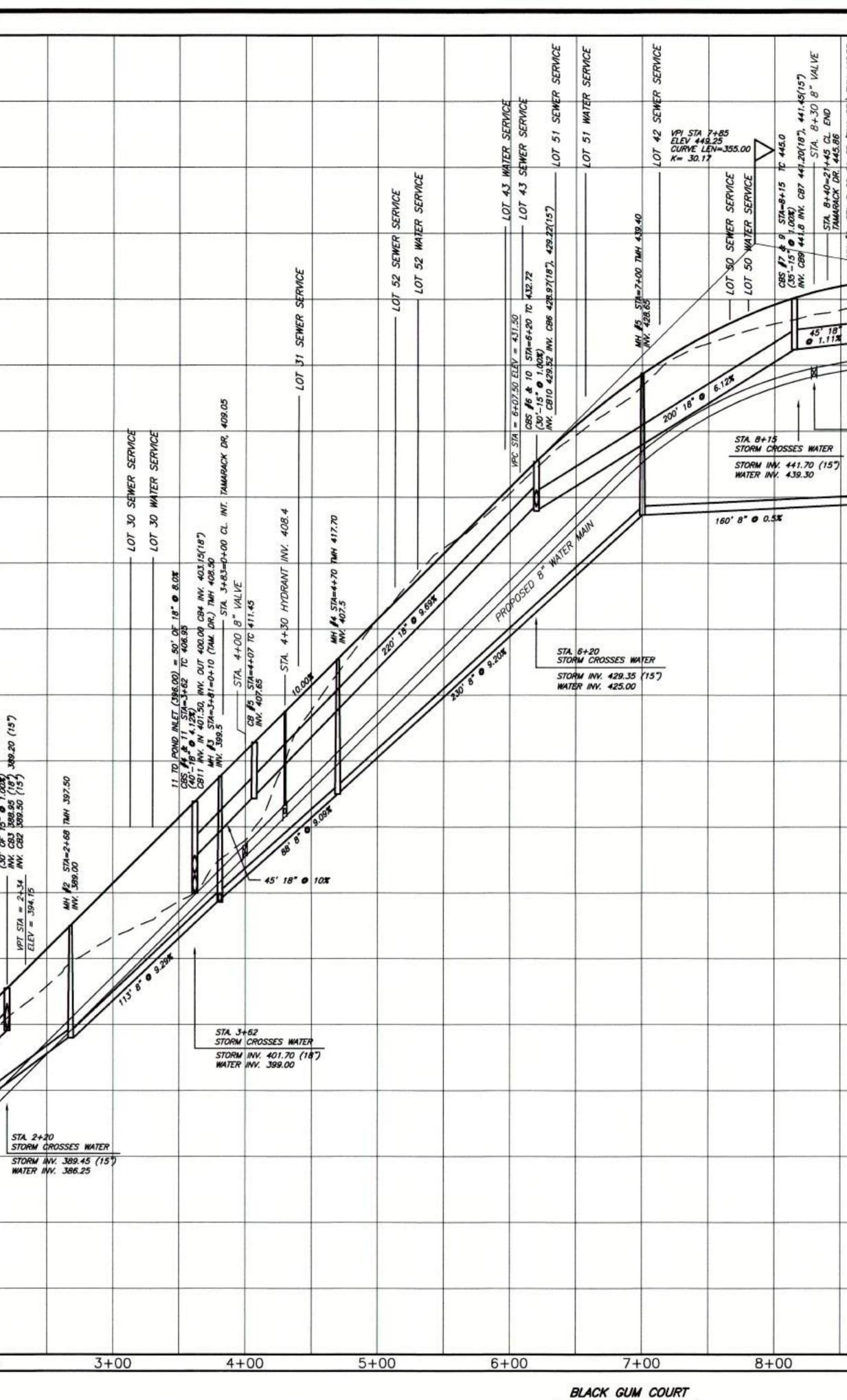
 35
 11+30
 454.62
 450.87
 45'
 18*
 4.71

 344
 10+87
 452.50
 448.75
 80'
 18*
 5.67

 34
 10+14
 477.97
 444.22
 5.67
 5.67
26 2+35 23 2+35
 38
 10+14
 477.97
 444.77

 34
 10+14
 477.97
 444.47
23 2+35 15" 1.00 22 1+35 -----
 34
 10+14
 477.97
 444.22

 338
 9+63
 445.25
 441.67
4 0+25 18" 4.80 40 17+35



STORM DRAINAGE RCP - REINFORCED CONCRETE PIPE, TYPE III

CMP - CORRUGATED METAL PIPE, FULLY COATED PAVED INVERT CPEP - CORRUGATED POLYETHYLENE PIPE ADS, N-12 UNLESS OTHERWISE NOTED

		22		1.	2
٨.	л.	Æ	76	וכ	Т
7	۲			5	,
2					

CB/	STATION	TOP	INVERT	LENGTH	DU.	PERCEN
25	4+50	426.23	423.10			
24	1.00	100 07	100.00	30'	15"	1.00
29	4+50	426.23	422.80			
24	4+50	426.23	422.55	- 2015/20-1	Seconds.	1000
				216	18"	1.81
23	2+35	422.31	418.85			
26	2+35	422.31	419.20	-	1	
			110.00	30'	15*	1.00
23	2+35	422.31	418.90	10000-02	an se	
23	2+35	422.31	418.65		1 9	
25	2735	422.51	+10.05	95'	18"	6.16
22	1+35	416.26	412.80		10	0110
				110'	18"	8.77
4	0+25	408.00	403.15	-200	12	0000
40	17+35	468.30	465.10		-	
10	11100	100.00	100.10	30'	15"	1.00
41	17+35	468.30	464.80			
41	17+35	468.30	464.55		8 23	
+1	17735	+00.30	404.35	131'	18"	2.82
41A	18+65	464.25	460.85	- NR2		arora.
				62'	18"	6.21
42	19+25	460.75	457.00		<u>E 35</u>	
43	19+25	460.75	457.55			
1000	10120	Sector Sector	107.00	30'	15*	1.00
42	19+25	450.75	457.25	Canada	Sec. St	1990
42	10.05	460.75	167.00			
72	19+25	+00.75	457.00	80'	18"	7.25
424	20+00	454.91	451.20			114.0
				124'	18"	7.66
8	21+21	446.20	441.70	1020	20100	100000

CB	STATION	CURB	INVERT	LENGTH	DUA.	PERCENT
12	10+12	445.24	442.00			
		Self Long		30'	15"	1.00
13	10+12	445.24	441.70(15)	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		a succession of the
			441.45(18)			
	10.00	110.00	199.11	248	18"	1.75
14	12+60	440.86	437.11	125'	18"	1.61
15	13+95	438.47	435.10	120	10	1.01
10	10100	17.0.7/	1000.10	125'	18*	3.40
16	15+21	434.79	430.85(18)	140	10	2.72
10	- iorai	101.75	431.10(15)			
			- initial init			
17	12+60	440.86	437.66			
				30'	15*	1.00
14	12+60	440.86	437.36			()
164	15+21	434.79	431.40			(
				30'	15	1.00
16	15+21	434.79	431.10			0
	15+21		170.05		-	
16	13+21	434.79	430.85	35'	18"	13.60
POND INLET	N/A	N/A	426.09	35	10	13.00
TOND MILLI	120	iven.	720.03			7
CS1	N/A	N/A	425.00			
				25'	24	2.12
18	16+65	428.17	424.47		1	8
-		a Martine		30'	24	1.00
19	16+65	428.17	424.17		1000	
	17.07	1.1		35'	24	1.00
HEADWALL O	17+07	N/A	423.82	-		
FOSTERTOWN	-					

CB	STATION	TOP	INVERT	LENGTH	DUL	PERCENT
8	8+60	446.20	441.70			
			and the second	45	18"	1.11
7	8+15	445.00	441.20(18)		() I	100 mm
			441.45(15)			2
		199.94	and a start of the	200'	18"	6.12
6	6+20	432.72	428.97(18)			
			429.22(15")	0001	107	0.00
5	1107	111.15	107.05	220'	18"	9.69
2	4+07	411.45	407.65	45'	18"	10.00
4	3+62	406.95	403.15	40	10	10.00
	3702	400.95	400.13	40'	18"	4.12
11	3+62	406.95	401.50 IN	170	19	7.12
	5702	+00.50	400.00 OUT			
		-	100.00 001	50'	18"	8.00
POND INLET	N/A	N/A	396.00	00	10	0.00
- one mar		ig.n				
10	6+20	432.72	429.52			8
				30'	15	1.00
6	6+20	432.72	429.22			
9	8+15	445.00	441.80			-
		110.00	TTLEE	35'	15"	1.00
7	8+15	445.00	441.45		10	1.00
						-
2	2+18	392.77	389.50		-	
				30'	15	1.00
3	2+18	392.77	389.20(15)		-	2
200 - 1960 - 1975 -	Association and a second	10-1-10-1-1	388.95(18")			
	1.1.1.1	-	-	110'	18"	8.53
19A	1+10	384.20	379.50	007	100	0.94
20	0+25	701 30	277.17	85'	18"	2.74
20	0+25	381.75	377.17	70'	107	1.10
21	0+25	701 75	376.70	36'	18"	1.30
41	0725	381.75	5/0.70	250'	24"	100
21A	N/A	377.90	374.20	250'	64	1.00
414	100	577.50	5/4.20	100'	24"	1.50
DMH49	N/A	377.90	372.21	100	47	1.00

ſſ	-				
R	EV	DATE		DESCRIPTION	
l	DATE 2	0F ISSUE /11/15	DRAWN BY DESIGNED BY	JAP JAP	_ CH _ APF

10 2 10 5 554-14+75 TAH 436.50 10T 44 FORCE MAIN	15+21 W CROSSE W INV. 43 R INV. 42				
		00			
25 9 10 10 10 10 10 10 10 10 10 10		14+	378(87 ; INV. IN 372.20 19	STA. 0+00 EXIST. MH TMH	EWER
	60 ROSSES WATER NV. 437.56 (15") NV. 435.00	·00	CULVERT PIPE	PROPOSED 18"	0 EXISTING 8" SI
CBS #14 # 17 STA=12+80 TC 440.86 (30'-15' • 1.00%) MN. CB17 437.66 MN. CB14 437.11(187), 437.36(15') SEWER SERVICE NN. CB17 437.66 MN. CB14 437.11(187), 437.36(15') SEWER SERVICE NN. CB17 437.66 MN. CB14 437.11(187), 437.36(15') SEWER SERVICE	the second se	13+			0 0
STA 12+30 8" V		00	390	380	370
		12+			
IT INV: 437.5	2		390	380	370
	-12 ROSSES WATER W. 441.90 (15') W. 438.75				
	STA. 10- STORM (
0 WATEN "8 0.50 - TOT 9 WATEN SERVICE	30. 8. 0 0.304				
0 ROSSES WATER W. 441.60 (18") V. 439.20					
100 11 10 10					

EXISTING & PROPOSED SEWER ALONG WELLS ROAD

STORM DRAINAGE RCP - REINFORCED CONCRETE PIPE, TYPE III CMP - CORRUGATED METAL PIPE, FULLY COATED PAVED INVERT CPEP - CORRUGATED POLYETHYLENE PIPE ADS, N-12 UNLESS OTHERWISE NOTED

-1+00

0+00

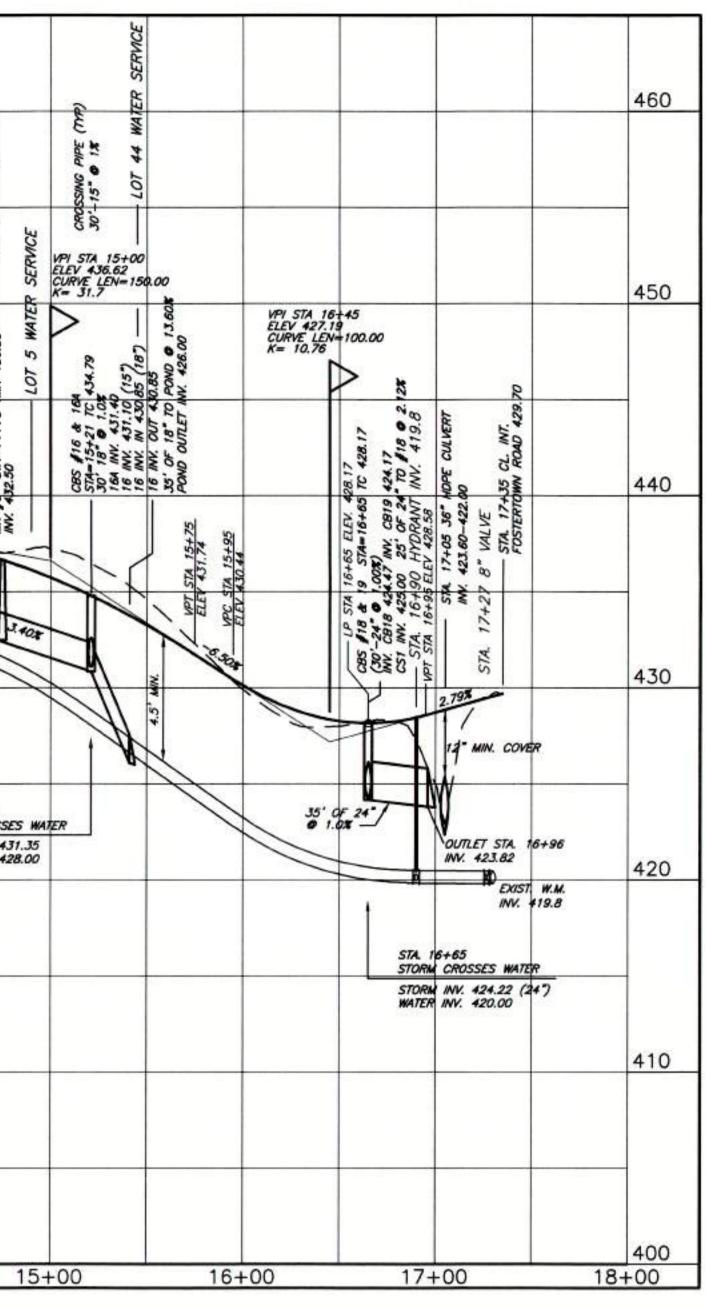
CB	STATION	RIM	INVERT	LENGTH	DIA.	PERCENT
CS2	N/A	399.00	393.50	-		-
			1000 V.S.S.	79'	24	3.52
DMH45	N/A	397.30	390.72			12102
				189'	24	5.14
POND INLET	N/A	N/A	381.00			
CSJ	N/A	386.00	381.50	25.7		
				80'	24	11.6
DMH49	N/A	378.00	372.21			0.22
				71.1'	24	1.0
OUTLET	N/A	N/A	371.50			5

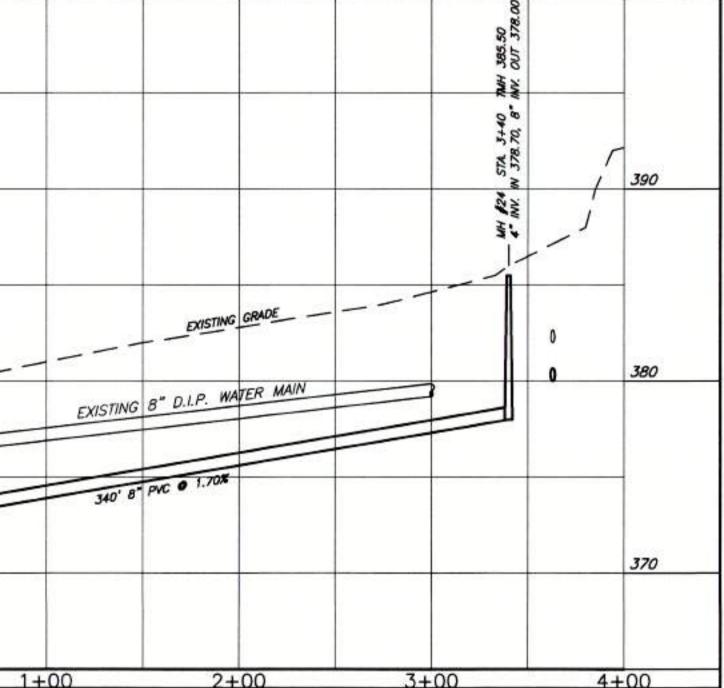
DWN BY DES BY CHK BY APP BY CHECKED BY JAP APPROVED BY JAP



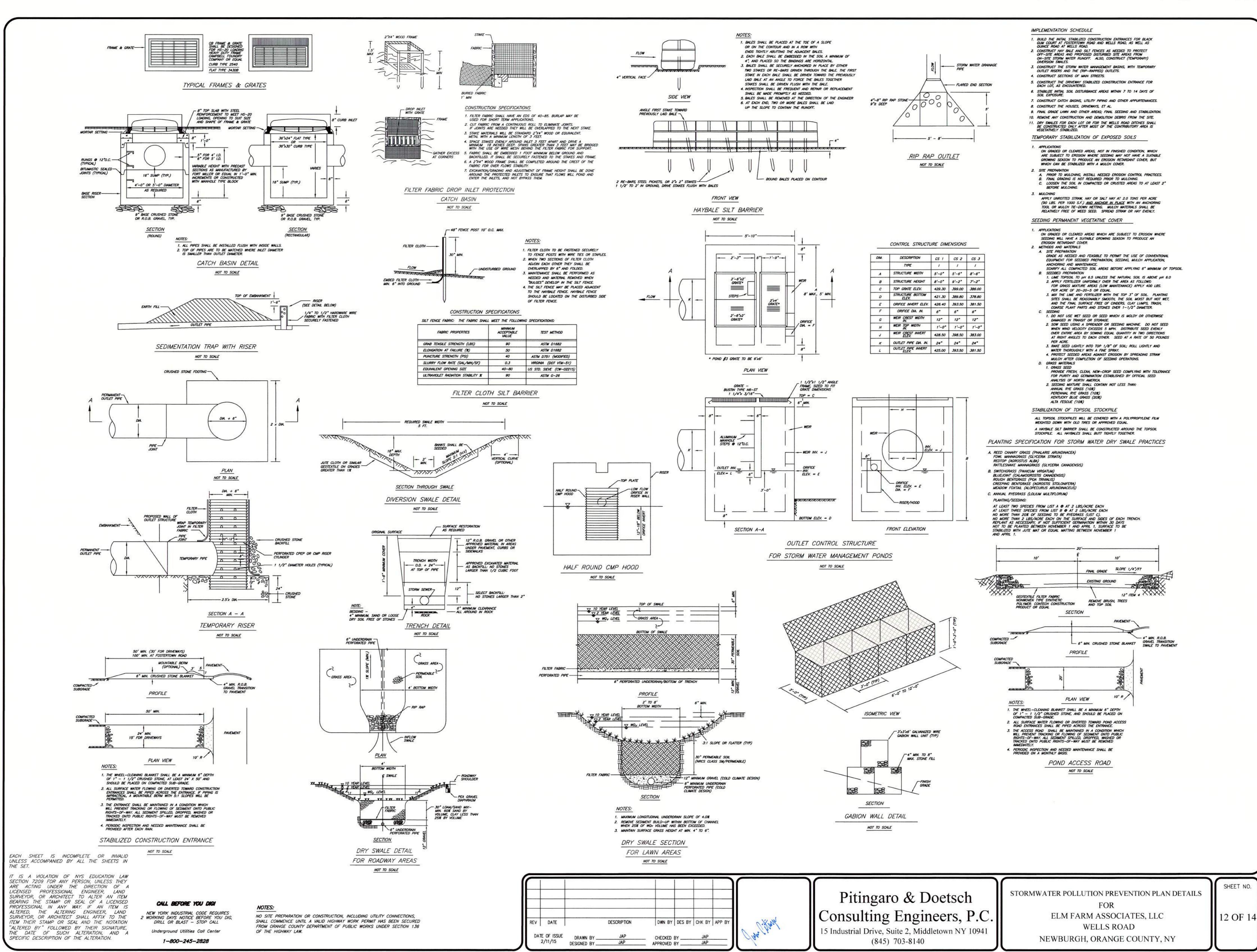
Pitingaro & Doetsch Consulting Engineers, P.C.

15 Industrial Drive, Suite 2, Middletown NY 10941 (845) 703-8140

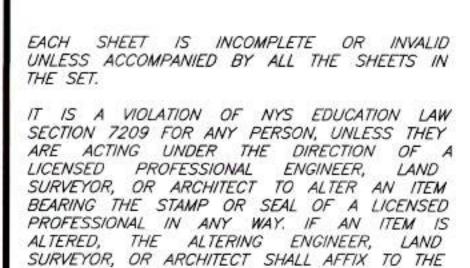




ROAD PROFILES FOR ELM FARM ASSOCIATES, LLC WELLS ROAD NEWBURGH, ORANGE COUNTY, NY SHEET NO.







ITEM THEIR STAMP OR SEAL AND THE NOTATION

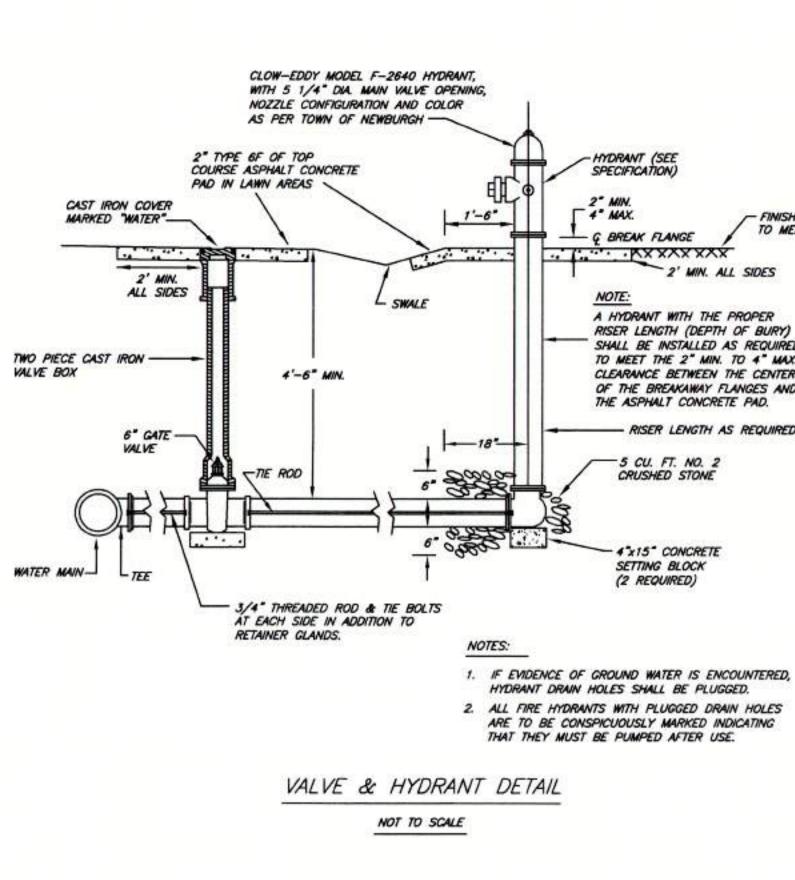
"ALTERED BY" FOLLOWED BY THEIR SIGNATURE,

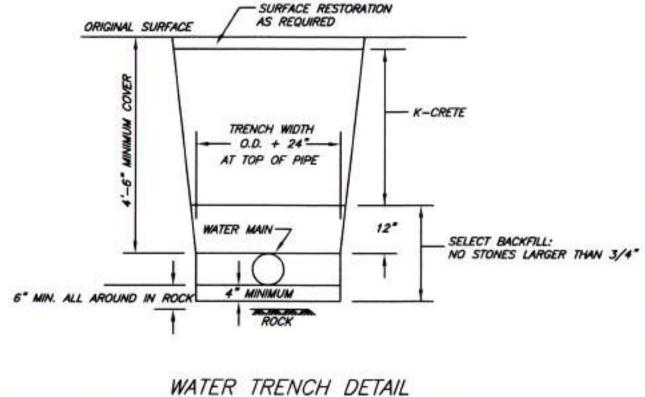
SPECIFIC DESCRIPTION OF THE ALTERATION.

THE DATE OF SUCH ALTERATION, AND A

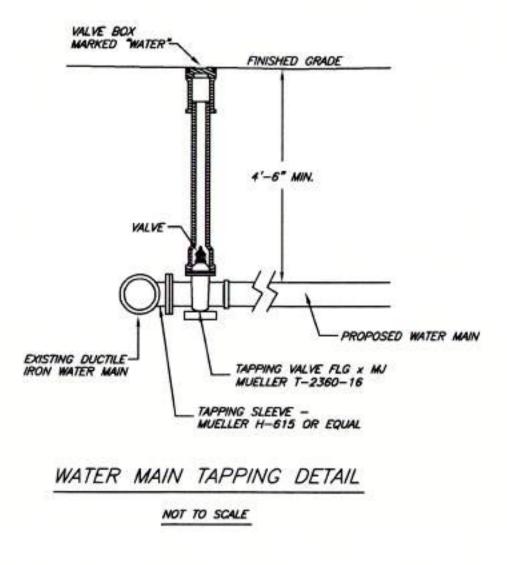
CALL BEFORE YOU DIG! NEW YORK INDUSTRIAL CODE REQUIRES 2 WORKING DAYS NOTICE BEFORE YOU DI DRILL OR BLAST - STOP CALL Underground Utilities Call Center 1-800-245-2828

NOTES:





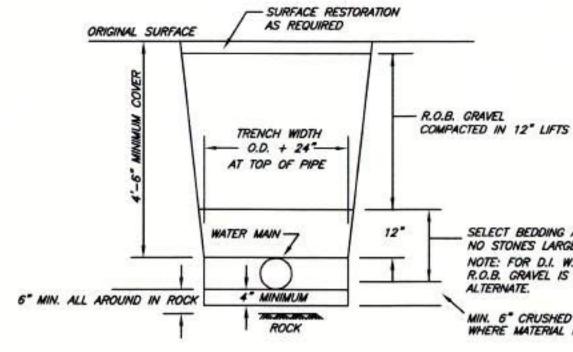




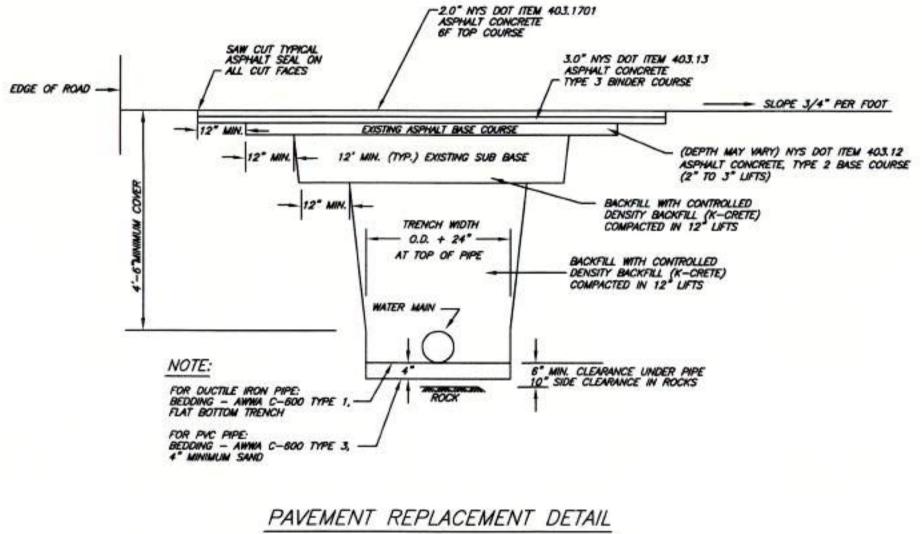
- FINISHED GRADE AS REQUIRED TO MEET CLEARANCE STANDARD 2' MIN. ALL SIDES

> A HYDRANT WITH THE PROPER RISER LENGTH (DEPTH OF BURY) SHALL BE INSTALLED AS REQUIRED TO MEET THE 2" MIN. TO 4" MAX. CLEARANCE BETWEEN THE CENTER OF THE BREAKAWAY FLANGES AND THE ASPHALT CONCRETE PAD. - RISER LENGTH AS REQUIRED

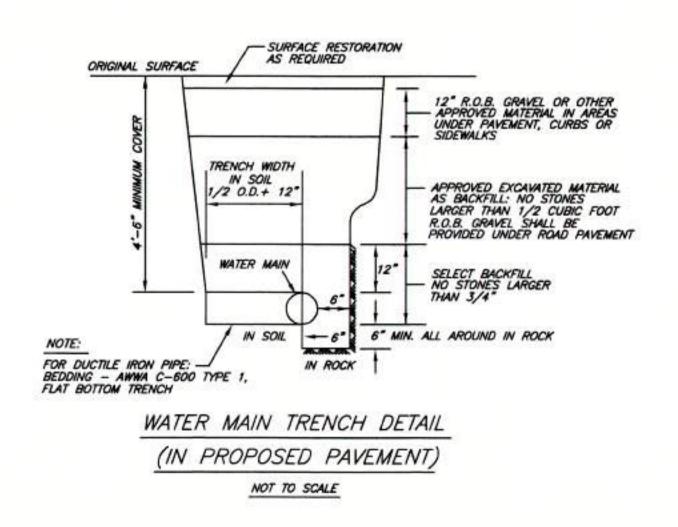
- 4"x15" CONCRETE SETTING BLOCK (2 REQUIRED)



WATER MAIN TRENCH DETAIL (OUTSIDE PAVEMENT) NOT TO SCALE





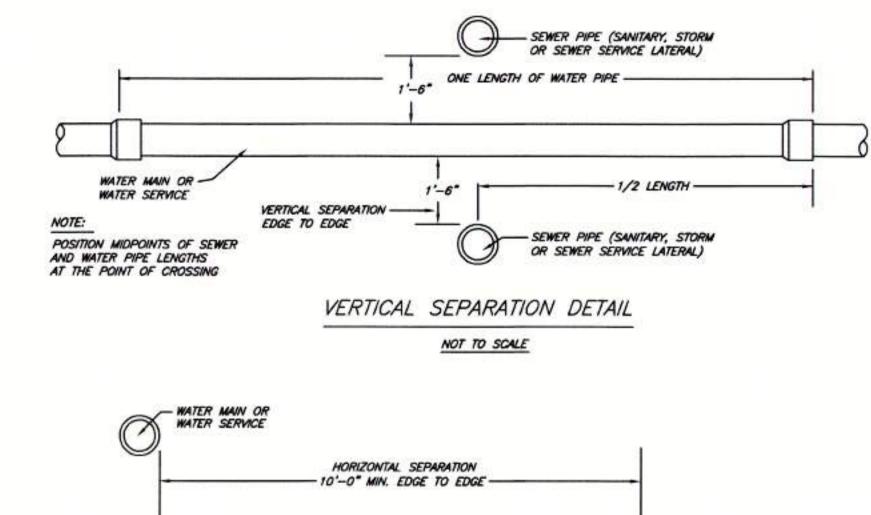


NOTE:

\square							
REV	DATE		DESCRIPTION	DWN BY	DES BY	СНК ВҮ	APP BY
	e of Issue 2/11/15	DRAWN BY DESIGNED BY	JAP JAP	CHECKED APPROVED		JAP JAP	

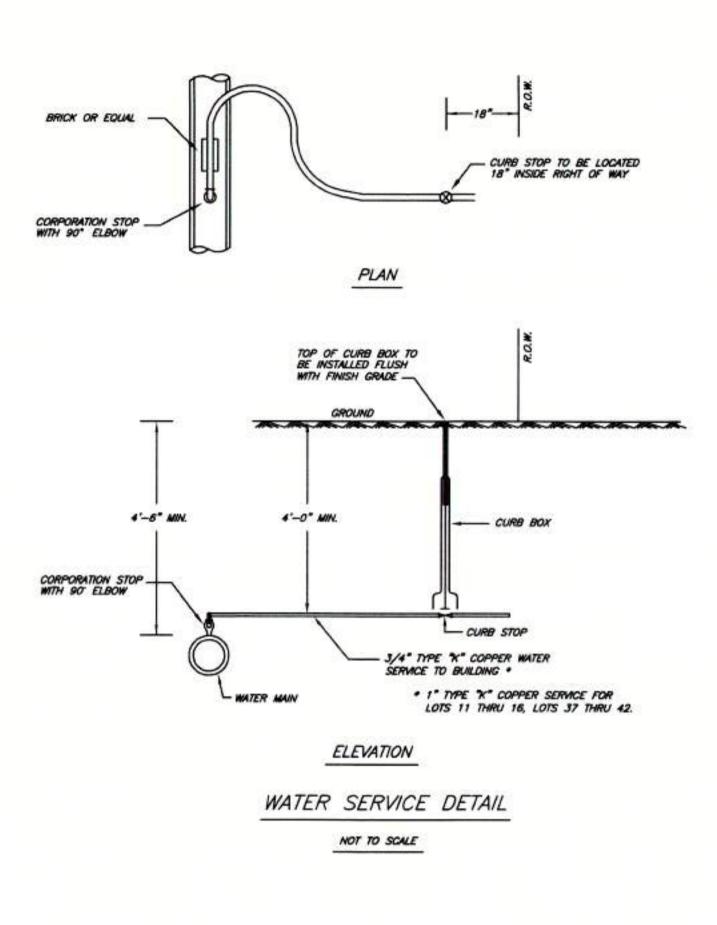
NO SITE PREPARATION OR CONSTRUCTION, INCLUDING UTILITY CONNECTIONS, SHALL COMMENCE UNTIL A VALID HIGHWAY WORK PERMIT HAS BEEN SECURED FROM ORANGE COUNTY DEPARTMENT OF PUBLIC WORKS UNDER SECTION 136 OF THE HIGHWAY LAW.

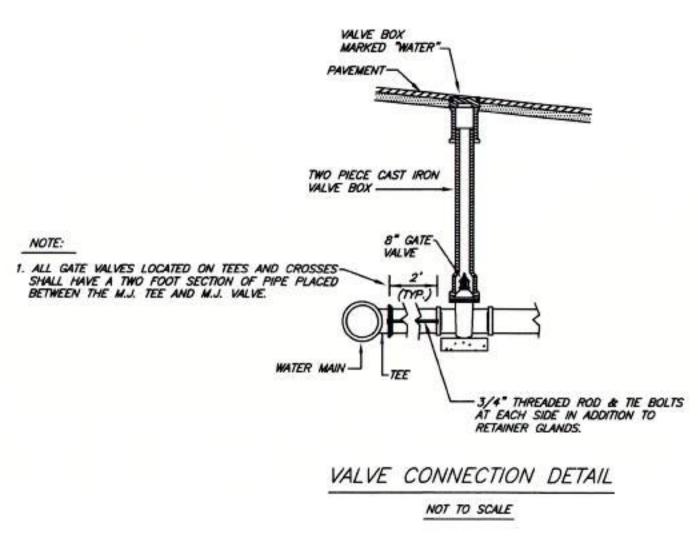
SELECT BEDDING AND BACKFILL NO STONES LARGER THAN 3/4" NOTE: FOR D.I. W.M. 2" MINUS R.O.B. GRAVEL IS AN ACCEPTABLE ALTERNATE. MIN. 6" CRUSHED STONE REQUIRED WHERE MATERIAL IS UNSTABLE.



ANY DEVIATION FROM THE MINIMUM HORIZONTAL & VERTICAL SEPARATION DISTANCES MUST BE SPECIFICALLY APPROVED BY THE DEPARTMENT OF HEALTH HORIZONTAL SEPARATION DETAIL

NOT





Pitingaro & Doetsch Consulting Engineers, P.C. 15 Industrial Drive, Suite 2, Middletown NY 10941 (845) 703-8140



SEWER PIPE (SANITARY, STORM OR SEWER SERVICE LATERAL)

NOT TO SCALE

TEST PRESSURE AND THRUST RESTRAINT REQUIREMENTS *

150 psi	8"
90° BEND	30'
45' BEND	13
22 1/2 BEND	6'
11 1/4 BEND	3'
8" TEE BRANCH RUN	14'
END THRUST	37'

SOURCE: DIPRA USING TYPE 2 LAYING CONDITION; FLAT BOTTOM TRENCH; BACKFILL TO 1/2 PIPE, LOOSELY CONSOLIDATED. SOIL: COH-GRAN

* LINEAL FEET OF RESTRAINED PIPE EACH SIDE OF BENDS. * LINEAL FEET ON BRANCH OF TEE. * LINEAL FEET FROM END CAP. * * USE FOR WATER MAIN INSTALLED BELOW THE 435' INVERT ELEVATION.

WATER SYSTEM NOTES

1. CONSTRUCTION OF POTABLE WATER UTILITIES AND CONNECTION TO THE TOWN OF NEWBURGH WATER SYSTEM REQUIRES A PERMIT FROM THE TOWN OF NEWBURGH WATER DEPARTMENT. ALL REQUIREMENTS SHALL CONFORM TO THE REQUIREMENTS OF THE NEW YORK STATE DEPARTMENT OF HEALTH AND THE TOWN OF NEWBURGH.

2. ALL WATER SERVICE LINES FOUR (4) INCHES AND LARGER IN DIAMETER SHALL BE CEMENT LINED, CLASS 52, DUCTLE IRON PIPE CONFORMING TO ANSI/AWWA C151/A21.51-91 OR LATER REVISION FOR DUCTILE IRON PIPE. JOINTS SHALL BE EITHER PUSH-ON OR MECHANICAL JOINT AS REQUIRED.

3. 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 EBBA IRON MEGALUG SERIES 1100 OR APPROVED EQUAL. THE USE OF A MANUFACTURED RESTRAINED JOINT PIPE IS ACCEPTABLE WITH PRIOR APPROVAL OF THE WATER DEPARTMENT.

4. ALL FITTINGS SHALL BE CAST IRON OR DUCTLE IRON, MECHANICAL JOINT, CLASS 250 AND CONFORM TO ANSI/AWWA C110/A21.10-B7 OR LATEST REVISION FOR DUCTLE AND GRAY IRON FITTINGS OR ANSI/AWWA C153/A21.53-94 OR LATEST REVISION FOR DUCTLE IRON COMPACT

5. ALL VALVES SHALL BE RESILIENT WEDGE, MECHANICAL JOINT GATE VALVES CONFORMING TO ANSI/AWWA C509 OR LATEST REVISION SUCH AS MUELLER A-2300-23 OR ANSI/AWWA C509 LOUAL ALL GATE VALVES SHALL OPEN LEFT COUNTERCLOCKWISE).

6. TAPPING SLEEVE SHALL BE MECHANICAL JOINT SUCH AS MUELLER H-615 OR EQUAL. TAPPING VALVE SHALL BE RESILIENT WEDGE GATE VALVES CONFORMING TO ANSI/AWWA C509 SUCH AS MUELLER MODEL T-2360-16 OR APPROVED EQUAL. ALL TAPPING SLEEVES AND VALVES SHALL BE TESTED to 150 PSI minimum; testing of the tapping sleeve and valve must b WITNESSED AND ACCEPTED BY THE TOWN OF NEWBURGH WATER DEPARTMENT PRIOR TO CUTTING INTO THE PIPE.

7. ALL WATER SERVICE LINES TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE TYPE K COPPER TUBING. CORPORATION STOPS SHALL BE MUELLER H-15020 FOR 3/4 AND 1 INCH, MUELLER H-15000 OR B-25000 FOR 1 1/2 OR 2 INCH SIZES. CURB VALVES SHALL BE MUELLER H-1501-2 FOR 3/4 AND 1 INCH AND MUELLER B-25204 FOR 1 1/2 AND 2 INCH SIZES. CURB BOXES SHALL BE MUELLER H-10312 FOR 3/4 AND 1 INCH AND MUELLER H-10310 FOR 1 1/2 AND 2 INCH SIZES.

8. ALL PIPE INSTALLATION SHALL BE SUBJECT TO INSPECTION BY THE TOWN OF NEWBURGH WATER DEPARTMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL INSPECTIONS AS REQUIRED WITH THE TOWN OF NEWBURGH WATER DEPARTMENT.

9. THE WATER MAIN SHALL BE TESTED, DISINFECTED AND FLUSHED IN ACCORDANCE WITH THE TOWN OF NEWBURGH REQUIREMENTS. ALL TESTING, DISINFECTING AND FLUSHING SHALL BE COORDINATED WITH THE TOWN OF NEWBURGH WATER DEPARTMENT. PRIOR TO PUTTING THE WATER MAIN IN SERVICE, SATISFACTORY SANITARY RESULTS FROM A CERTIFIED LAB MUST BE SUBMITTED TO THE TOWN OF NEWBURGH WATER DEPARTMENT. THE TEST SAMPLES MUST BE COLLECTED BY A REPRESENTATIVE OF THE TESTING LABORATORY AND WITNESSED BY THE WATER DEPARTMENT.

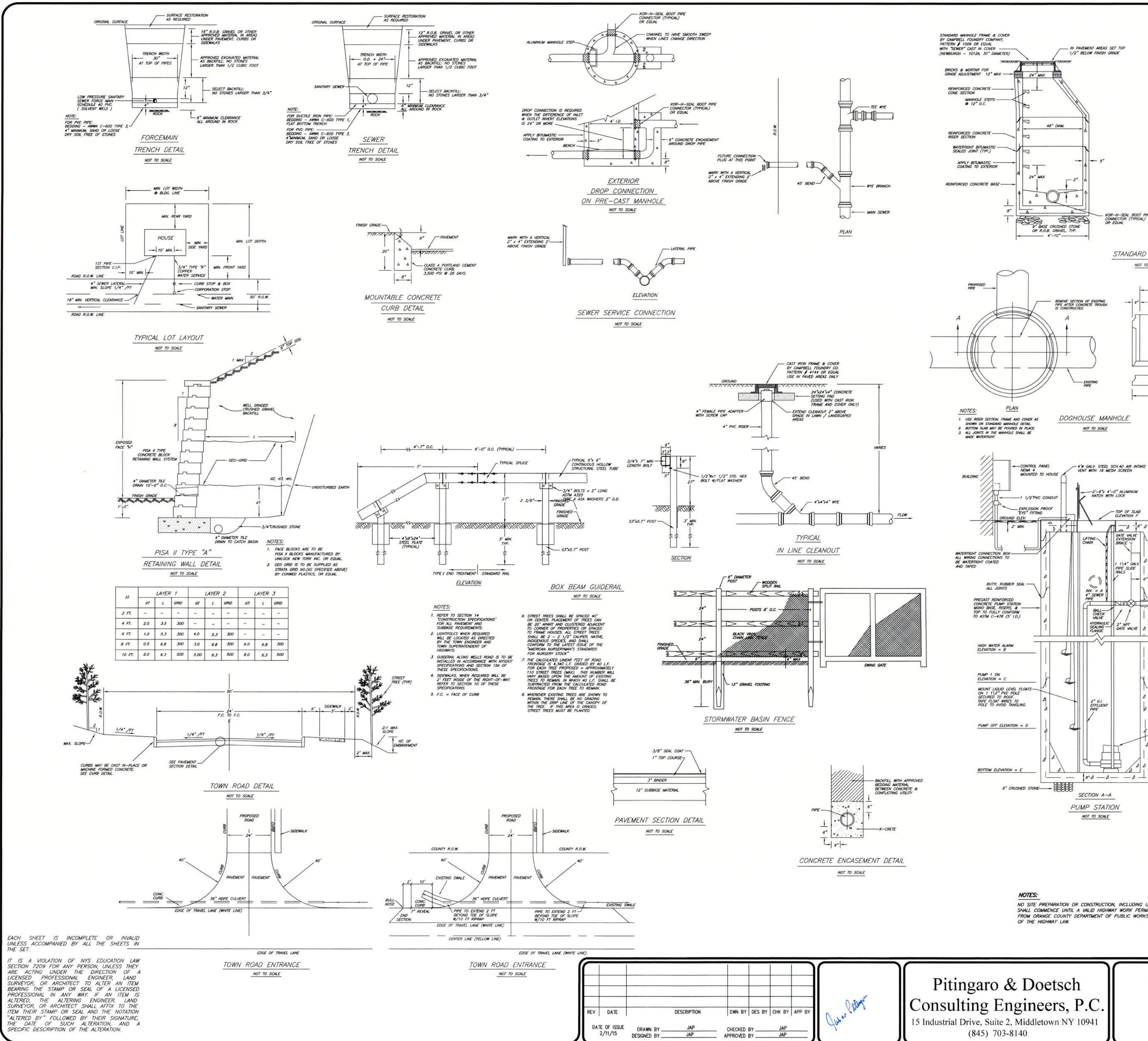
10. THRUST RESTRAINT SHALL BE PROVIDED BY THE RODS AND RETAINER GLANDS. THE LENGTH OF RESTRAINED PIPE SHALL BE DETERMINED BASED UPON WORKING PRESSURES, SOIL CONDITIONS AND DEPTH OF BURY ACCORDING TO DIPRA STANDARDS. (SEE TABLE) 11. PRESSURE AND LEAKAGE TESTS ARE REQUIRED AND SHALL BE DONE IN ACCORDANCE WITH AWWA C-600 STANDARDS.

12. DISINFECTING OF ALL NEW WORK SHALL BE DONE IN ACCORDANCE WITH AWWA C-651 STANDARDS. 13. ALL WATER MAINS SHALL BE 8", CLASS 52, DUCTILE IRON PIPE UNLESS OTHERWISE NOTED.

14. WHENEVER CONSTRUCTION IS NOT IN PROGRESS, ANY OPEN END OF THE PIPE SHALL BE CLOSED WITH AN ANIMAL PROOF, WATERPROOF PLUG. 15. LOTS 19, 44 AND 45 SHALL HAVE A SOLENOID VALVE INSTALLED ON THE WATER LINE AND INTERLOCKED WITH THE PUMP CHAMBER HIGH WATER ALARM SO THAT THE VALVE WILL CLOSE WHEN THE HIGH WATER ALARM IS ACTIVATED.

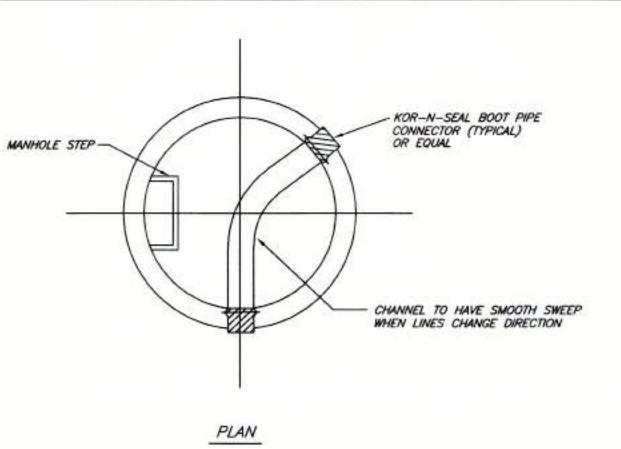
> WATER DETAILS FOR ELM FARM ASSOCIATES, LLC WELLS ROAD NEWBURGH, ORANGE COUNTY, NY

SHEET NO.



Consulting Engineers, P.C. 15 Industrial Drive, Suite 2, Middletown NY 10941







- 1. MANHOLE STEPS SHALL BE EXTRUDED ALUMINUM OR STEEL REINFORCED POLYPROPYLENE PLASTIC.
- 2. 60" DIAMETER MANHOLES REQUIRED FOR 27" & 30" DIAMETER PIPES. 48" DIAMETER MANHOLES REQUIRED FOR SMALLER DIAMETER PIPES.
- 3. ALL TROUGHS ARE TO BE FULL DEPTH OF THE LARGEST PIPE DIAMETER LESS 2" AS SHOWN. 4. PIPES OF UNEQUAL DIAMETER SHALL HAVE THEIR TOPS SET AT
- THE SAME ELEVATION UNLESS OTHERWISE NOTED. 5. ALL MANHOLES LOCATED IN EASEMENTS SHALL HAVE TOP
- ELEVATIONS 6"-18" ABOVE THE FINISH GRADE, UNLESS OTHERWISE NOTED.

6. ALL WATERTIGHT COVERS SHALL HAVE A NEOPRENE GASKET. 7. FOR SHALLOW MANHOLES, IF THE DISTANCE FROM THE TOP OF THE PIPE TO THE BOTTOM OF THE SLAB IS 3' OR LESS, THE OPENING

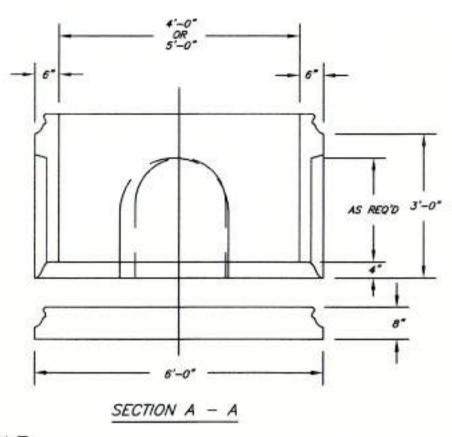
- IN THE SLAB SHALL BE CENTERED OVER THE TROUGH. 8. ALL MANHOLES TO BE DESIGNED FOR H-20 LOADING.
- 9. ALL MANHOLE FRAMES AND COVERS LOCATED IN PAVED AREAS SHALL BE SET TO THE SLOPE OF THE PAVEMENT. 10. ALL MANHOLES GREATER THAN 12' DEEP, SHALL BE 5' DIAMETER.

STANDARD MANHOLD NOT TO SCALE

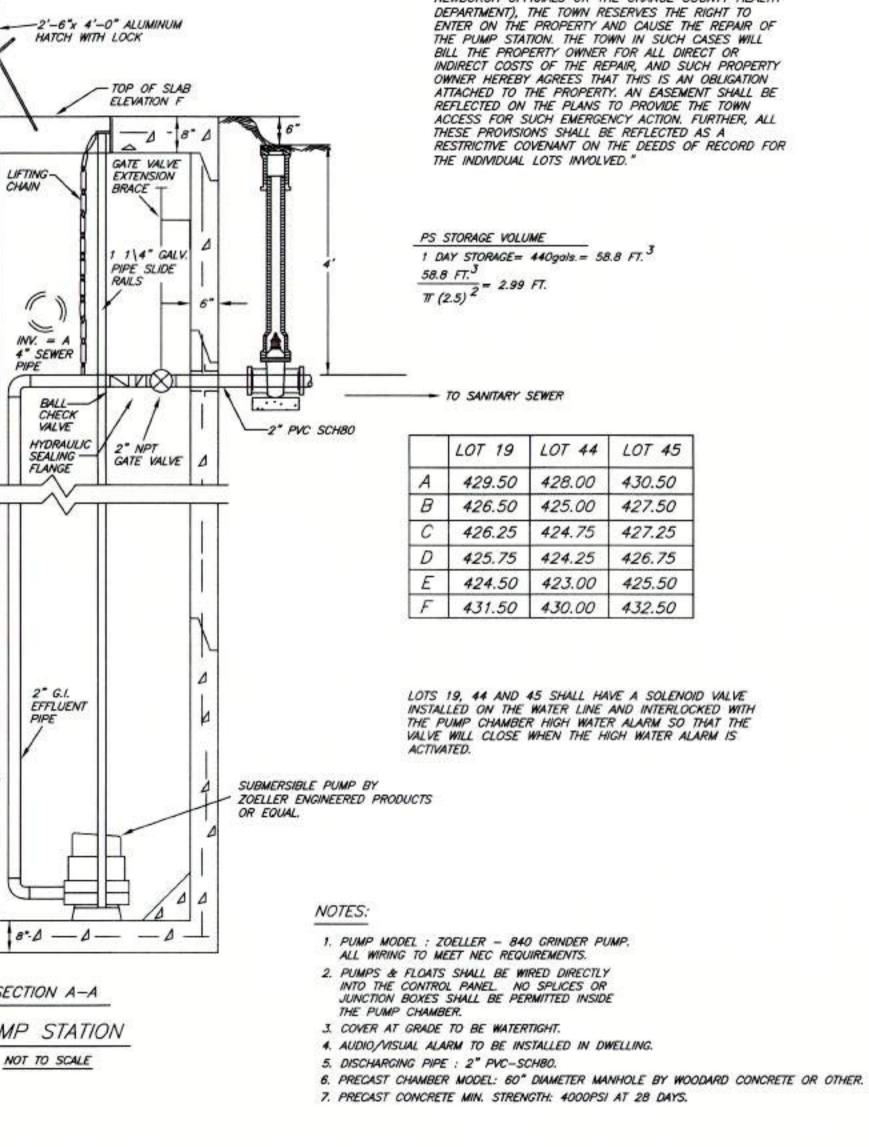
KOR-N-SEAL BOOT PIP

CONNECTOR (TYPICAL)

OR EQUAL

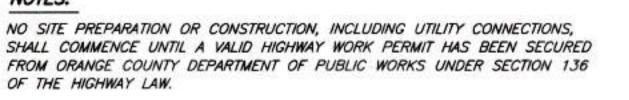


NOTE: THE RESPONSIBILITY FOR MAINTENANCE OF THE INDIVIDUAL PRIVATE PUMP STATIONS WILL BE THAT OF INDIVIDUAL PROVAIL POMP STATIONS WILL BE THAT OF THE INDIVIDUAL PROPERTY OWNERS. PROPERTY OWNERS SHALL CONTRACT FOR MAINTENANCE OF THE PUMP STATION WITH A SUITABLE CONTRACTOR OR PLUMBER. A SPARE PUMP UNIT SHALL BE PROVIDED FOR EACH INSTALLATION. SHOULD FAILURE OCCUR AND THE HOMEOWNER IS UNABLE TO CAUSE THE CORRECTION OF THE CONDITION WITHIN A TIMELY FASHION, AND SUCH CONDITION BESINT IN A POTENTIAL DANCED TO THE CONDITION RESULT IN A POTENTIAL DANGER TO THE PUBLIC HEALTH (IN THE OPINION OF THE TOWN OF NEWBURGH OFFICIALS OR THE ORANGE COUNTY HEALTH



LOTS 19, 44 AND 45 SHALL HAVE A SOLENOID VALVE INSTALLED ON THE WATER LINE AND INTERLOCKED WITH THE PUMP CHAMBER HIGH WATER ALARM SO THAT THE VALVE WILL CLOSE WHEN THE HIGH WATER ALARM IS

CALL BEFORE YOU DIGI



NEW YORK INDUSTRIAL CODE REQUIRES 2 WORKING DAYS NOTICE BEFORE YOU DIG, DRILL OR BLAST - STOP CALL Underground Utilities Call Center

1-800-245-2828

MISCELLANEOUS DETAILS

FOR ELM FARM ASSOCIATES, LLC WELLS ROAD NEWBURGH, ORANGE COUNTY, NY SHEET NO.