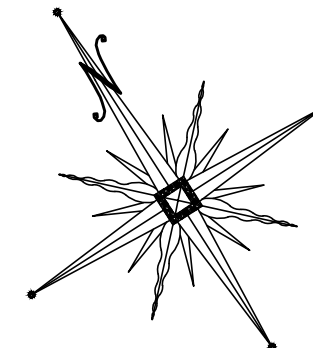




SURVEY NOTES:

1. UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S SEAL IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2 OF THE N.Y.S. EDUCATION LAW.
2. ONLY COPIES FROM THE ORIGINAL OF THIS SURVEY MARKED WITH AN ORIGINAL OF THE LAND SURVEYOR'S INKED SEAL OR HIS EMBOSSED SEAL SHALL BE CONSIDERED TO BE VALID TRUE COPIES.
3. CERTIFICATIONS INDICATED HEREON SIGNIFY THAT THIS SURVEY WAS PREPARED IN ACCORDANCE WITH THE EXISTING CODE OF PRACTICE FOR LAND SURVEYS ADOPTED BY THE NEW YORK STATE ASSOCIATION OF PROFESSIONAL LAND SURVEYORS. SAID CERTIFICATIONS SHALL RUN ONLY TO THE PERSON FOR WHOM THE SURVEY IS PREPARED, AND ON HIS BEHALF TO THE TITLE COMPANY, GOVERNMENTAL AGENCY AND LENDING INSTITUTION LISTED HEREON. CERTIFICATIONS ARE NOT TRANSFERABLE TO ADDITIONAL INSTITUTIONS OR SUBSEQUENT OWNER.
4. UNDERGROUND IMPROVEMENTS OR ENCROACHMENTS, IF ANY, ARE NOT SHOWN HEREON.
5. CONTACT UTILITY COMPANIES PRIOR TO ANY CONSTRUCTION, AS UNDERGROUND IMPROVEMENTS EXIST WHICH WERE NOT LOCATED AT THE TIME OF THIS SURVEY.
6. ALL INTERIOR FEATURES ARE NOT SHOWN HEREON.
7. SUBJECT TO AN UP TO DATE AND ACCURATE TITLE REPORT.
8. SUBJECT TO ANY EASEMENTS OR AGREEMENTS, IF ANY.
9. SUBJECT TO ANY RIGHTS, TITLE OR INTEREST BY OTHERS TO PROPERTY IN/AND OR ALONG THE ROADWAYS SHOWN HEREON.
10. SUBJECT TO ANY RIGHTS, TITLE, EASEMENTS, OR INTEREST BY UTILITY COMPANIES TO UTILITIES RUNNING IN AND/OR ALONG SAID PARCELS.
11. TOPOGRAPHY AND SOME EXISTING FEATURES BASED ON MAPPING PROVIDED BY RECORD APPLICANT.
12. REFER TO

LEGEND

- EXISTING WELL
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING PROPERTY LINE
- EXISTING TREELINE
- EXISTING OVERHEAD UTILITIES
- EXISTING GUY WIRE
- EXISTING UTILITY POLE WITH OVERHEAD WIRES
- EXISTING SIGN

RECORD OWNER/APPLICANT

B D R GROUP, LLC
P.O. BOX 259
GARNERVILLE, NY 10923

RESERVED FOR TOWN OF CHESTER PLANNING BOARD APPROVAL

11-11-22	FINAL REVIEW BASED ON PUBLIC HEARING COMMENTS	JUP
1-9-19	SDS/WETLAND SEPARATIONS, ADDED BUFFERS	MWS
2-28-18	PER PB COMMENTS AND SWPPP PREPARATION	MWS
10-28-16	PRELIMINARY DESIGN OF REVISED LAYOUT	MWS
3-31-16	REVISED CLUSTER LAYOUT PER HIGHWAY COMMENT	NR
6-19-15	REVISED PER PB COMMENTS	MWS
9-4-14	REVISED ENTRANCE	JUP
6-16-14	ORIGINAL PREPARATION DATE	JUP
DATE	DESCRIPTION	INITIALS

MAP CHECK DATE: 00/00/00 INITIALED BY: --

PIETRZAK & PFAU
ENGINEERING & SURVEYING, PLLC
282 GREENWICH AVENUE, SUITE A
GOSHEN, NEW YORK 10924
(845) 294-0606

2 HAMILTON AVENUE
MONTICELLO, NEW YORK 12701
(845) 796-4846

JOSEPH J. PFAU P.E.
LICENSE NO. 058945

MICHAEL F. CROGAN P.L.S.
LICENSE NO. 050323

VINCENT A. PIETRZAK P.E., P.L.S., LEAD CAP
P.E. LICENSE NO. 078558 N.Y.S. LICENSE NO. 050775
N.Y.P.L.S. LICENSE NO. 35396

SIGNATURE DATE

**BARODA CLUSTER
SUBDIVISION**

TOWN OF CHESTER
COUNTY OF ORANGE, NEW YORK

PROJECT TITLE

EXISTING CONDITIONS
SECTION 12, BLOCK 1, LOT 31
(NOT FOR OCHD REVIEW OR APPROVAL)

DRAWING TITLE

UNAUTHORIZED ALTERATION OR ADDITION TO A PLAN BEARING A LICENSED LAND SURVEYOR'S OR PROFESSIONAL ENGINEER'S SEAL IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2 OF THE N.Y. STATE EDUCATION LAW.

O.C.H.D. SHEET NO. N/A OF 7	D.E.C. SHEET NO. N/A OF N/A	DRAWING NUMBER 2 OF 17
SCALE 1"=150'	CAD REFERENCE WORKING R1	PROJECT NUMBER 14118.01



MATCH LINE 1
MATCH LINE 1

MATCH LINE 1
MATCH LINE 1

RESERVED FOR TOWN OF CHESTER PLANNING BOARD APPROVAL

N/F
DUGGAN
SECTION 12 BLOCK 1 LOT 66

RESERVED FOR HEALTH DEPARTMENT APPROVAL

THIS SHEET IS INCOMPLETE AND INVALID WITHOUT EACH AND EVERY OTHER SHEET LISTED IN THE TITLE BOX UNDER THE HEADING O.C.H.D. SHEET NO. 2 OF 7.

N/F
ANDRICK
SECTION 12 BLOCK 1 LOT 69

SURVEY NOTES:

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11. TOPOGRAPHY AND SOME EXISTING FEATURES BASED ON MAPPING PROVIDED BY RECORD APPLICANT.
12. REFER TO

RECORD OWNER/APPLICANT

B D R GROUP, LLC
P.O. BOX 259
GARNERVILLE, NY 10923

DATE	DESCRIPTION	INITIALS
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3-31-16	REVISED CLUSTER LAYOUT PER HIGHWAY COMMENT	NR
6-19-15	REVISED PER PB COMMENTS	MWS
9-4-14	REVISED ENTRANCE	JUP
6-16-14	ORIGINAL PREPARATION DATE	JUP

DATE	REVISIONS
MAP CHECK DATE: 00/00/00	INITIALED BY: --

PIETRZAK & PFAU
ENGINEERING & SURVEYING, PLLC
282 GREENWICH AVENUE, SUITE A
GOSHEN, NEW YORK 10924
(845) 294-0606
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MONTICELLO, NEW YORK 12701
(845) 796-4846

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MICHAEL F. CROGAN P.L.S.
LICENSE NO. 050323
VINCENT A. PIETRZAK P.E., P.L.S., LEAD CAP
P.E. LICENSE NO. 076558 P.L.S. LICENSE NO. 050775
N.Y.P.L.S. LICENSE NO. 35396

SIGNATURE DATE

BARODA CLUSTER SUBDIVISION

TOWN OF CHESTER
COUNTY OF ORANGE, NEW YORK

PROJECT TITLE

PLAT SHEET (1)

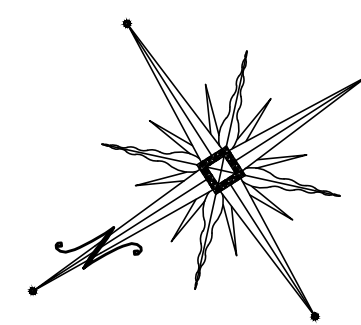
SECTION 12, BLOCK 1, LOT 31

O.C.H.D. SHEET NO.	D.E.C. SHEET NO.	DRAWING NUMBER
2 OF 7	N/A OF N/A	3 OF 17
SCALE	CAD REFERENCE	PROJECT NUMBER
1"=100'	WORKING R1	14118.01

N/F
EIGHTEEN-EIGHT GROUP, LLC
SECTION 6 BLOCK 1 LOT 102

N86°46'54"E
73.17'
S27°33'06"E
107.35'

LIMITS OF AGRICULTURAL
CONSERVATION EASEMENT
(HATCHED AREA)



S33°33'06"E
101.25'
S25°39'36"E
109.55'
S59°48'06"E
83.52'
S30°40'06"E
66.40'

S51°34'13"E
82.44'
S44°39'
S37°05'57"W
239.05'
S34°16'43"W
1001.11'
S34°16'43"E
1053.63'
1000.35'

RIGHT-OF-WAY DEDICATION AREA

124,217± sq.ft.
2.85± acres

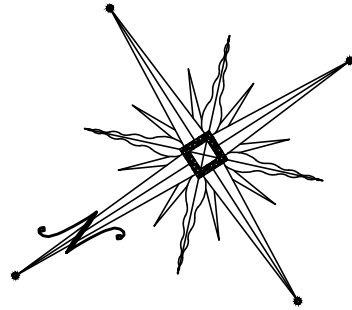
PROPOSED 100'
RIGHT-OF-WAY
DEDICATION TO BE
OFFERED TO THE
TOWN OF CHESTER

GRAPHIC SCALE

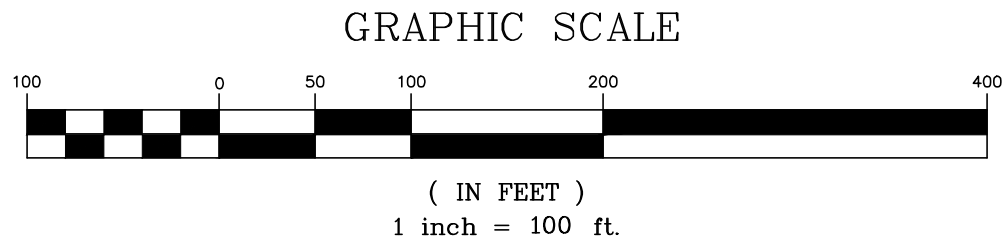


(IN FEET)
1 inch = 100 ft.

BLACK MEADOW ROAD



- SURVEY NOTES:**
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RECORD OWNER/APPLICANT

B D R GROUP, LLC
P.O. BOX 259
GARNERVILLE, NY 10923

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9-4-14	REVISED ENTRANCE	JUP
6-16-14	ORIGINAL PREPARATION DATE	JUP
DATE	DESCRIPTION	INITIALS

REVISIONS		
MAP CHECK DATE:	00/00/00	INITIALED BY: --

PIETRZAK & PFAU
ENGINEERING & SURVEYING, PLLC

282 GREENWICH AVENUE, SUITE A
GOSHEN, NEW YORK 10924
(845) 294-0806

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MICHAEL F. CROGAN P.L.S.
LICENSE NO. 050323

VINCENT A. PIETRZAK P.E., P.L.S., LEAD CAP
P.E. LICENSE NO. 070650 P.L.S. LICENSE NO. 050075
N.Y.P.L.S. LICENSE NO. 35396

SIGNATURE _____ DATE _____

**BARODA CLUSTER
SUBDIVISION**

TOWN OF CHESTER
COUNTY OF ORANGE, NEW YORK

PROJECT TITLE

PLAT SHEET (2)
SECTION 12, BLOCK 1, LOT 31

DRAWING TITLE

UNAUTHORIZED ALTERATION OR ADDITION TO A PLAN BEARING A LICENSED LAND SURVEYOR'S OR PROFESSIONAL ENGINEER'S SEAL IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2 OF THE N.Y. STATE EDUCATION LAW.

O.C.H.D. SHEET NO. 3 OF 7	D.E.C. SHEET NO. N/A OF N/A	DRAWING NUMBER 4 OF 17
SCALE 1"=100'	CAD REFERENCE WORKING R1	PROJECT NUMBER 14118.01

N/F
PALMER
SECTION 13 BLOCK 1 LOT 14.1

N/F
TOWN OF CHESTER
SECTION 13 BLOCK 1 LOT 86.23

N/F
NORFOLK SOUTHERN CORP
SECTION 7 BLOCK 1 LOT 44

N/F
TOWN OF CHESTER
SECTION 13 BLOCK 1 LOT 1.221

N/F
WEINBERG
SECTION 13 BLOCK 2 LOT 14

N/F
COTSIS
SECTION 12 BLOCK 1 LOT 65

LOT 29
5,755,436± sq.ft.
132.13± acres

HUDSON & LEHIGH RAILROAD

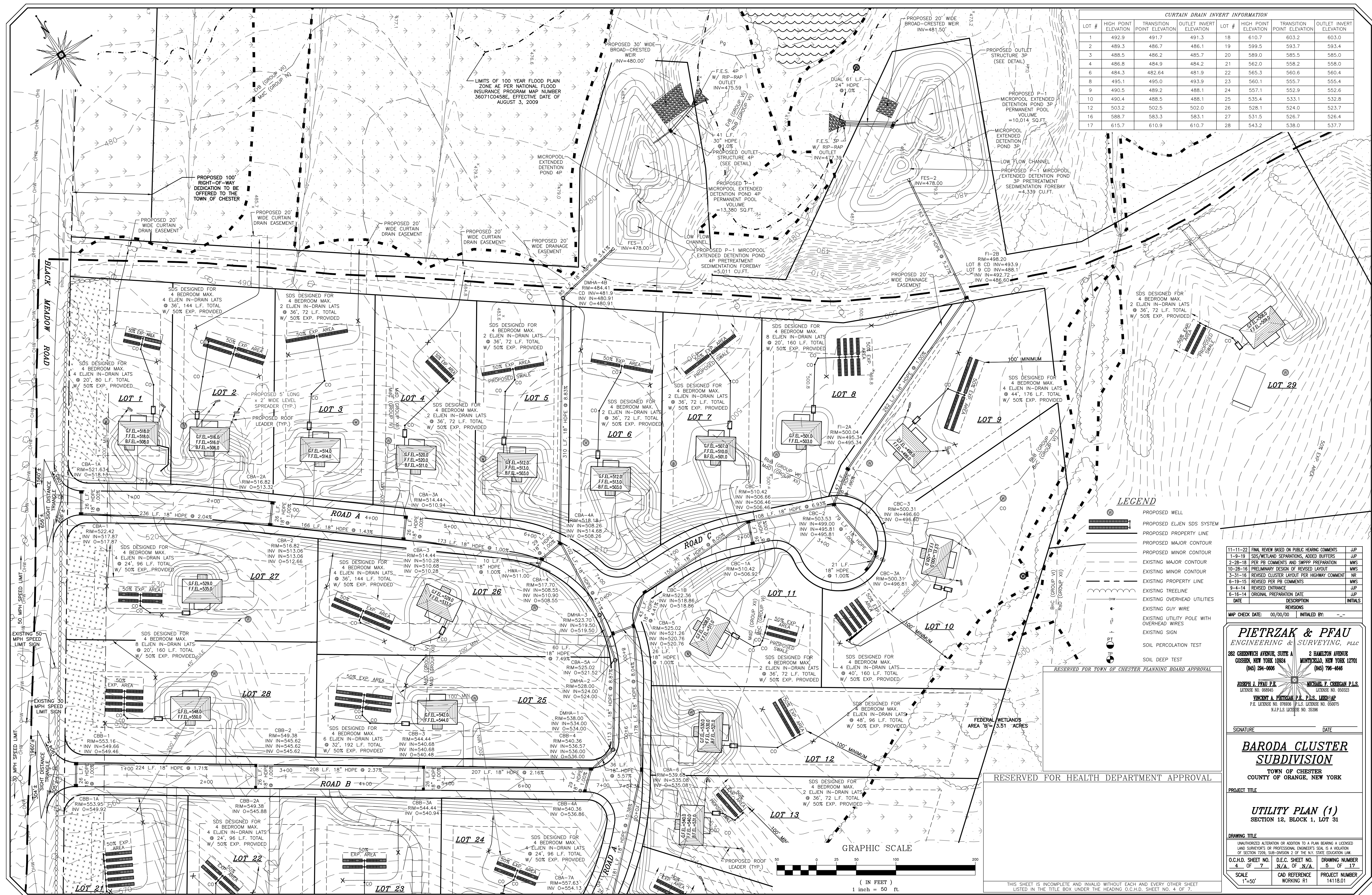
LIMITS OF AGRICULTURAL
CONSERVATION EASEMENT
(HATCHED AREA)

MATCH LINE 1
MATCH LINE 1

RESERVED FOR HEALTH DEPARTMENT APPROVAL

RESERVED FOR TOWN OF CHESTER PLANNING BOARD APPROVAL

THIS SHEET IS INCOMPLETE AND INVALID WITHOUT EACH AND EVERY OTHER SHEET
LISTED IN THE TITLE BOX UNDER THE HEADING O.C.H.D. SHEET NO. 3 OF 7.



CURTAIN DRAIN INVERT INFORMATION							
LOT #	HIGH POINT ELEVATION	TRANSITION POINT ELEVATION	OUTLET INVERT ELEVATION	LOT #	HIGH POINT ELEVATION	TRANSITION POINT ELEVATION	OUTLET INVERT ELEVATION
1	492.9	491.7	491.3	18	610.7	603.2	603.0
2	489.3	486.7	486.1	19	599.5	593.7	593.4
3	488.5	486.2	485.7	20	589.0	585.5	585.0
4	486.8	484.9	484.2	21	562.0	558.2	558.0
6	484.3	482.64	481.9	22	565.3	560.6	560.4
8	495.1	495.0	493.9	23	560.1	555.7	555.4
9	490.5	489.2	488.1	24	557.1	552.9	552.6
10	490.4	488.5	488.1	25	535.4	533.1	532.8
12	503.2	502.5	502.0	26	528.1	524.0	523.7
16	588.7	583.3	583.1	27	531.5	526.7	526.4
17	615.7	610.9	610.7	28	543.2	538.0	537.7

11-11-12	FINAL REVIEW BASED ON PUBLIC HEARING COMMENTS	JJP
9-9-19	SDS/WETLAND SEPARATIONS, ADDED BUFFERS	JJP
2-28-18	PER PB COMMENTS AND SWPPP PREPARATION	MWS
10-28-16	PRELIMINARY DESIGN OF REVISED LAYOUT	MWS
3-31-16	REVISED CLUSTER LAYOUT PER HIGHWAY COMMENT	NR
6-19-15	REVISED PER PB COMMENTS	MWS
9-4-14	REVISED ENTRANCE	JJP
6-16-14	ORIGINAL PREPARATION DATE	JJP

DATE	DESCRIPTION	INITIALS
REVISIONS		
MAP CHECK DATE:	00/00/00	INITIALED BY: --

PIETRZAK & PFAU
ENGINEERING & SURVEYING, PLLC

262 GREENWICH AVENUE, SUITE A GOSHEN, NEW YORK 10924 (845) 294-0806	2 HAMILTON AVENUE MONTICELLO, NEW YORK 12701 (845) 796-4646
---	---

JOSEPH J. PPAU P.E. **MICHAEL F. CREEGAN P.L.S.**
 LICENSE NO. 068945 LICENSE NO. 050323
VINCENT A. PIETRZAK P.E. P.L.S. LEED®AP
 P.E. LICENSE NO. 076936 P.L.S. LICENSE NO. 050075
 N.J.P.L.S. LICENSE NO. 35396

SIGNATURE _____ DATE _____

BARODA CLUSTER
SUBDIVISION

TOWN OF CHESTER
COUNTY OF ORANGE, NEW YORK

PROJECT TITLE	
---------------	--

UTILITY PLAN (1)
SECTION 12, BLOCK 1, LOT 31

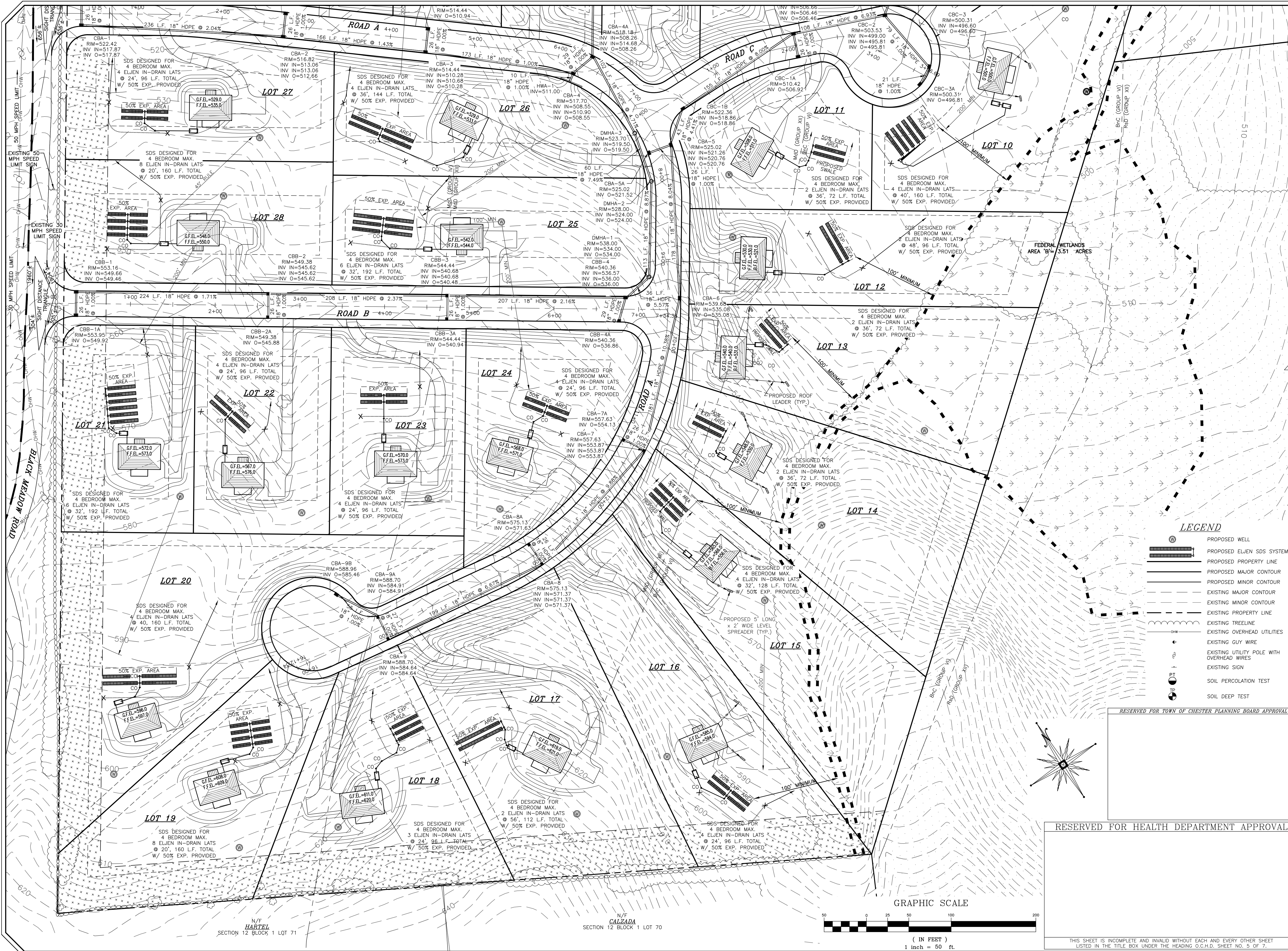
DRAWING TITLE	
---------------	--

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LAND SURVEYOR'S OR PROFESSIONAL ENGINEER'S SEAL IS A VIOLATION
OF SECTION 7209, SUB-DIVISION 2 OF THE N.Y. STATE EDUCATION LAW.

O.C.H.D. SHEET NO.	D.E.C. SHEET NO.	DRAWING NUMBER
1-25-M	25-25-1	5-25-1M

<u>4</u> OF <u>7</u>	<u>N/A</u> OF <u>N/A</u>	<u>5</u> OF <u>17</u>
SCALE	CAD REFERENCE	PROJECT NUMBER

SCALE 1"=50'	CAD REFERENCE WORKING R1	PROJECT NUMBER 14118.01
-----------------	-----------------------------	----------------------------

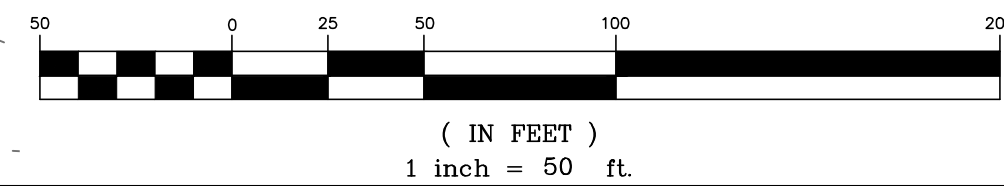


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- LEGEND**
- PROPOSED WELL
 - PROPOSED ELJEN SDS SYSTEM
 - PROPOSED PROPERTY LINE
 - PROPOSED MAJOR CONTOUR
 - PROPOSED MINOR CONTOUR
 - EXISTING MAJOR CONTOUR
 - EXISTING MINOR CONTOUR
 - EXISTING PROPERTY LINE
 - EXISTING TREELINE
 - EXISTING OVERHEAD UTILITIES
 - EXISTING GUY WIRE
 - EXISTING UTILITY POLE WITH OVERHEAD WIRES
 - EXISTING SIGN
 - SOIL PERCOLATION TEST
 - SOIL DEEP TEST

RESERVED FOR TOWN OF CHESTER PLANNING BOARD APPROVAL

RESERVED FOR HEALTH DEPARTMENT APPROVAL



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282 GREENWICH AVENUE, SUITE A GOSHEN, NEW YORK 10924 (845) 294-0806
2 HAMILTON AVENUE MONTICELLO, NEW YORK 12701 (845) 796-4846

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MICHAEL F. CROGAN P.L.S. LICENSE NO. 050323
VINCENT J. PIETRZAK P.E. P.L.S. 12600-AP
P.E. LICENSE NO. 076569 P.L.S. LICENSE NO. 050775
N.Y.P.L.S. LICENSE NO. 35396

SIGNATURE DATE

BARODA CLUSTER SUBDIVISION

TOWN OF CHESTER
COUNTY OF ORANGE, NEW YORK

PROJECT TITLE

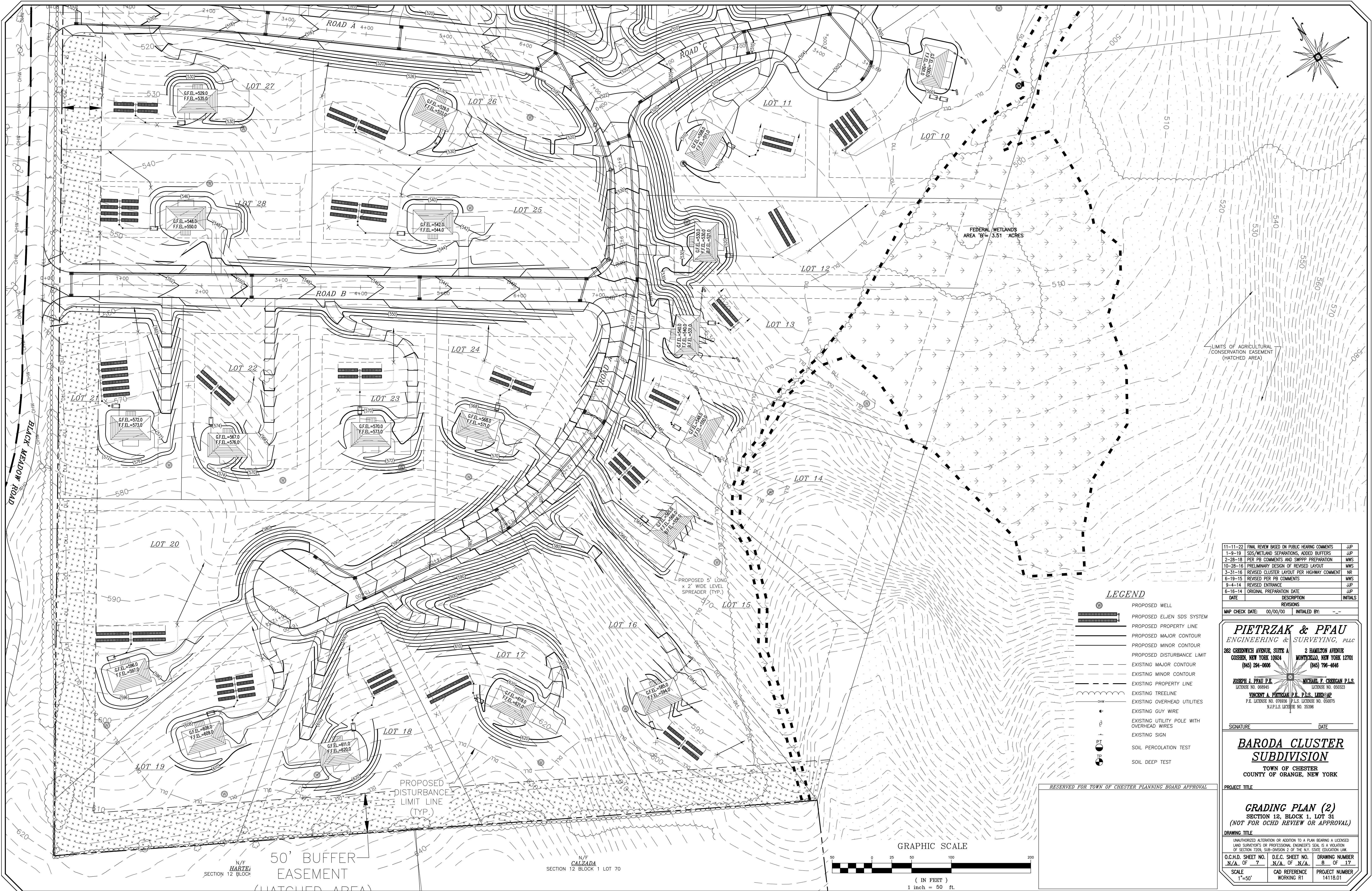
UTILITY PLAN (2)
SECTION 12, BLOCK 1, LOT 31

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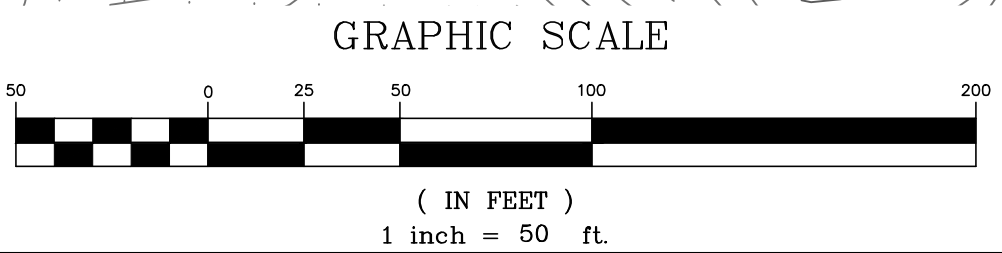
O.C.H.D. SHEET NO.	D.E.C. SHEET NO.	DRAWING NUMBER
5 OF 7	N/A OF N/A	6 OF 17

SCALE	CAD REFERENCE	PROJECT NUMBER
1"=50'	WORKING R1	14118.01



- LEGEND**
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 - PROPOSED DISTURBANCE LIMIT
 - EXISTING MAJOR CONTOUR
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RESERVED FOR TOWN OF CHESTER PLANNING BOARD APPROVAL



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TOWN OF CHESTER
COUNTY OF ORANGE, NEW YORK

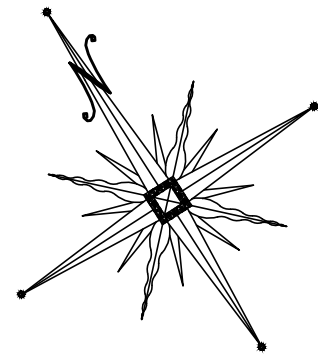
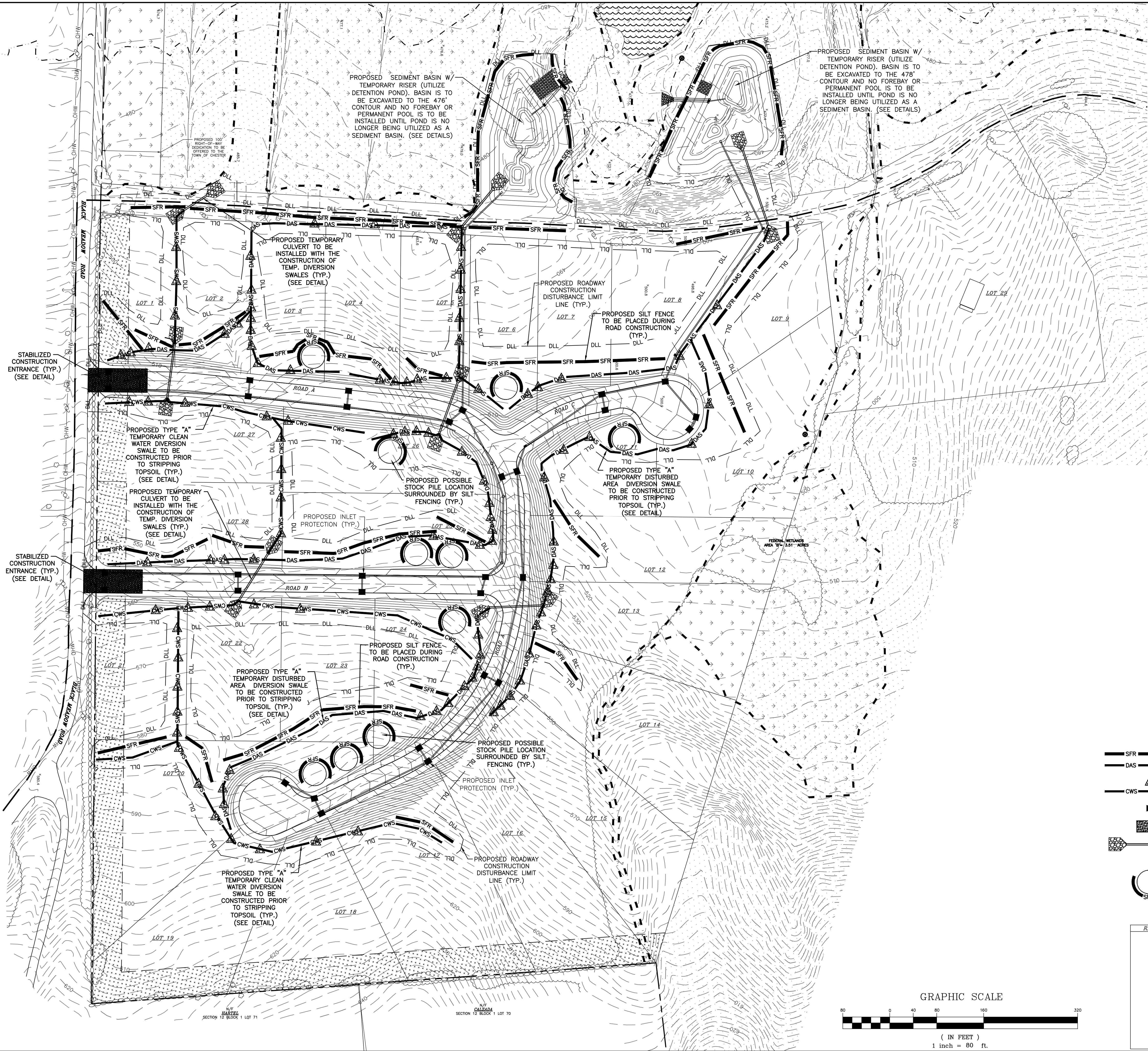
PROJECT TITLE

GRADING PLAN (2)
SECTION 12, BLOCK 1, LOT 31
(NOT FOR OCHD REVIEW OR APPROVAL)

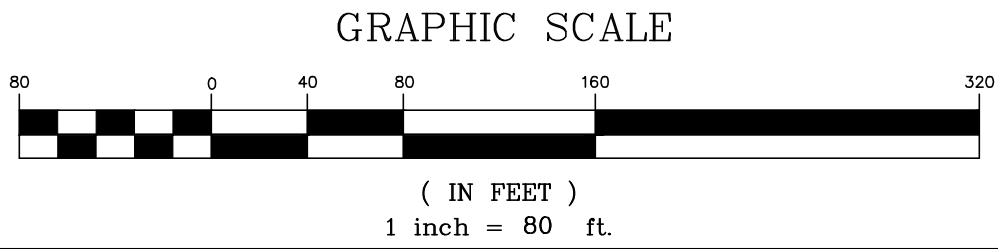
DRAWING TITLE

UNAUTHORIZED ALTERATION OR ADDITION TO A PLAN BEARING A LICENSED LAND SURVEYOR'S OR PROFESSIONAL ENGINEER'S SEAL IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2, OF THE N.Y. STATE EDUCATION LAW.

O.C.H.D. SHEET NO. N/A OF 7	D.E.C. SHEET NO. N/A OF N/A	DRAWING NUMBER 8 OF 17
SCALE 1"=50'	CAD REFERENCE WORKING R1	PROJECT NUMBER 14118.01



- LEGEND**
- SFR SFR Silt fence for roadway construction
 - DAS DAS Temporary diversion swale for disturbed areas
 - CWS CWS Temporary diversion swale for clean water
 - INLET PROTECTION
 - STABILIZED CONSTRUCTION ENTRANCE
 - TEMPORARY CULVERT WITH INLET & OUTLET PROTECTION
 - PROPOSED DISTURBANCE LIMIT LINE
 - PROPOSED SOIL STOCKPILE LOCATION



11-11-22	FINAL REVIEW BASED ON PUBLIC HEARING COMMENTS	JUP
1-9-19	SDS/METLAND SEPARATIONS, ADDED BUFFERS	JUP
2-28-18	PER PB COMMENTS AND SWPPP PREPARATION	MWS
10-28-16	PRELIMINARY DESIGN OF REVISED LAYOUT	MWS
3-31-16	REVISED CLUSTER LAYOUT PER HIGHWAY COMMENT	NR
6-19-15	REVISED PER PB COMMENTS	MWS
9-4-14	REVISED ENTRANCE	JUP
6-16-14	ORIGINAL PREPARATION DATE	JUP
DATE	DESCRIPTION	INITIALS

MAP CHECK DATE: 02/02/02 INITIALED BY: --

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SIGNATURE DATE

BARODA CLUSTER SUBDIVISION
TOWN OF CHESTER
COUNTY OF ORANGE, NEW YORK

**EROSION CONTROL PLAN
ROADWAY CONSTRUCTION**
SECTION 12, BLOCK 1, LOT 31
(NOT FOR OCHD REVIEW OR APPROVAL)

O.C.H.D. SHEET NO. N/A OF 7	D.E.C. SHEET NO. N/A OF N/A	DRAWING NUMBER 9 OF 17
SCALE 1"=80'	CAD REFERENCE WORKING R1	PROJECT NUMBER 14118.01

CONSTRUCTION SPECIFICATIONS

- ALL TEMPORARY SWALES SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.
- DIVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE.
- DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET DIRECTLY INTO AN UNDISTURBED STABILIZED AREA AT NON-EROSIVE VELOCITY.
- ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE SWALE.
- THE SWALE SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW.
- FILLS SHALL BE COMPACTED BY EARTH MOVING EQUIPMENT.
- ALL EARTH REMOVED AND NOT NEEDED FOR CONSTRUCTION SHALL BE PLACED SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE SWALE.
- STABILIZATION SHALL BE AS PER THE FLOW CHANNEL STABILIZATION CHART BELOW:

TYPE OF TREATMENT	CHANNEL GRADE	A/S, AC, OR LESS	B/S, AC, OR LESS
1	0.5-3.0%	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1-5.0%	SEED AND STRAW MULCH	SEED USING JUTE OR EXCELSIOR, 500
3	5.1-8.0%	LINED WITH JUTE OR EXCELSIOR, 500	LINED WITH 4"-8" RIP-RAP OR RECYCLED CONCRETE EQUIVALENT
4	8.1-20.3%	LINED WITH 4"-8" RIP-RAP	ENGINEERED DESIGN

- PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

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TEMPORARY SWALE

CONSTRUCTION SPECIFICATIONS

- STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES, GRADES AND LOCATIONS SHOWN IN THE PLAN.
- SET SPACING OF CHECK DAMS TO ASSUME THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM.
- EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
- PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
- ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE. MAXIMUM DRAINAGE AREA 2 ACRES.

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CHECK DAM

CONSTRUCTION SPECIFICATIONS

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

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SILT FENCE

CONSTRUCTION SPECIFICATIONS

- CLEAR THE AREA OF ALL DEBRIS THAT WILL HINDER EXCAVATION.
- GRADE APPROACH TO THE INLET UNIFORMLY AROUND THE BASIN.
- WEEP HOLES SHALL BE PROTECTED BY GRAVEL.
- UPON STABILIZATION OF CONTRIBUTING DRAINAGE AREA, SEAL WEEP HOLES, FILL BASIN WITH STABLE SOIL TO FINAL GRADE, COMPACT IT PROPERLY AND STABILIZE WITH PERMANENT SEEDING.

MAXIMUM DRAINAGE AREA 1 ACRE

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EXCAVATED DROP INLET PROTECTION

PROPOSED TEMPORARY OUTLET STRUCTURE FOR SEDIMENT BASIN DETAIL

N.T.S.

NOTES:

- ONCE THE DETENTION/TREATMENT POND IS NO LONGER BEING USED AS A SEDIMENT BASIN, THE OUTLET STRUCTURE IS TO BE MODIFIED TO CONFORM TO THE OUTLET STRUCTURE DETAIL PROVIDED FOR THE POND.

CONSTRUCTION SPECIFICATIONS

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

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STABILIZED CONSTRUCTION ENTRANCE

CONSTRUCTION SPECIFICATIONS

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

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RIPRAP OUTLET PROTECTION EXAMPLE

CONSTRUCTION SPECIFICATIONS

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

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TEMPORARY ACCESS CULVERT

TEMPORARY SEEDING SPECIFICATIONS

-SCARIFY SOILS IF COMPACTED
-LIME TO pH OF 6.0 IF REQUIRED
-FERTILIZE WITH 800 LBS/ACRE 5-10-10 FERTILIZER IF REQ..
-SEED WITH SPECIES AND RATE SHOWN BELOW
-MULCH WITH HAY OR STRAW AT A RATE OF 2000 LBS/ACRE.
ANCHOR MULCH WITH NETTING OF WOOD FIBER OR JUTE IF STEEP SLOPE OR HIGH POTENTIAL FOR EROSION.

SPECIES	APPLICATION RATE
RYEGRASS (ANNUAL OR PERENNIAL) (USE WINTER RYE IF SEEDING IN OCT./NOV.)	30 LBS/ACRE (0.7 LBS/1000 SF)

PERMANENT SEEDING MIXTURES

MODERATE TO STEEP SLOPES AND LOW MAINTENANCE AREAS

SPECIES	APPLICATION RATE
EMPIRE BIRDSFOOT TREFOL TALL FESCUE RYEGRASS	8 LBS/ACRE 20 LBS/ACRE 5 LBS/ACRE

GENERAL RECREATION AREAS AND LAWNS

SPECIES	APPLICATION RATE
SUNNY SITES (WELL, MODERATELY WELL AND SOMEWHAT POORLY DRAINED SOILS)	
65% KENTUCKY BLUEGRASS BLEND 20% PERENNIAL RYEGRASS 15% FINE FESCUE	85-114 LBS/ACRE 26-35 LBS/ACRE 19-26 LBS/ACRE
SUNNY DROUGHTY SITES (SOMEWHAT EXCESSIVELY TO EXCESSIVELY DRAINED SOILS)	
65% FINE FESCUE 15% PERENNIAL RYEGRASS 20% KENTUCKY BLUEGRASS BLEND	114-143 LBS/ACRE 26-33 LBS/ACRE 35-44 LBS/ACRE
SHADY DRY SITES (WELL TO SOMEWHAT POORLY DRAINED SOILS)	
80% SHADE TOLERANT KENTUCKY BLUEGRASS BLEND 20% PERENNIAL RYEGRASS	105-138 LBS/ACRE 25-37 LBS/ACRE
SHADY WET SITES (SOMEWHAT POOR TO POORLY DRAINED SOILS)	
70% ROUGH BLUEGRASS 80% SHADE TOLERANT KENTUCKY BLUEGRASS BLEND	60-91 LBS/ACRE 25-39 LBS/ACRE

CONSTRUCTION SPECIFICATIONS

EXTEND BLANKET A MINIMUM OF 3'-0" OVER CREST OF SLOPE, PER MANUFACTURERS REQUIREMENTS. TRENCHING NEEDED IF A MINIMUM OF 3'-0" IS NOT AVAILABLE AT THE CREST OF SLOPE OR IF OVERLAND FLOW IS ANTICIPATED FROM UPLAND AREAS. TRENCHING TO BE CONSTRUCTED PER MANUFACTURERS REQUIREMENTS.

EROSION CONTROL BLANKET DETAIL

N.T.S.

NOTES:

- EROSION CONTROL BLANKET TO BE CURLEX I (EXCELSIOR EROSION CONTROL BLANKETS) OR APPROVED EQUAL.
- EROSION CONTROL BLANKET TO BE PLACED ON DISTURBED SLOPES GREATER THAN 2 HORIZONTAL TO 1 VERTICAL, AS SHOWN ON THE EROSION CONTROL PLAN.
- EROSION CONTROL BLANKET IS TO BE INSTALLED PER MANUFACTURERS REQUIREMENTS.

EROSION CONTROL SEQUENCE

MEASURES SHALL BE TAKEN TO PREVENT SOIL EROSION DURING PROJECT CONSTRUCTION. ALL FRESHLY DISTURBED AREAS THAT WILL REMAIN DISTURBED FOR MORE THAN A PERIOD OF FOURTEEN (14) DAYS SHALL BE STABILIZED BY TEMPORARY SEEDING AS INDICATED ON THE TEMPORARY SEEDING SCHEDULE. DISTURBED AREAS SHALL BE MINIMAL IN SIZE AND SHALL NOT EXCEED THE APPROVED CLEARING AND GRADING LIMITS. THE FOLLOWING MEASURES SHALL BE IMPLEMENTED AS CONSTRUCTION PROGRESSES.

- PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES, THE LIMITS OF CLEARING AND GRADING SHALL BE MARKED. FILTER FABRIC SEDIMENTATION BARRIERS (SILT FENCE) SHALL BE PLACED ALONG THE DOWNGRADE PERIMETER OF THE SITE AND ANY OTHER AREAS WHERE SILT FENCE IS INDICATED AS TO BE INSTALLED "PRIOR TO CONSTRUCTION" ON THE APPROVED PLANS. INSTALLATION IS TO BEGIN AT THE DOWNSTREAM PORTIONS OF THE SITE THEN WORKING UPSTREAM.
- STABILIZED CONSTRUCTION ENTRANCES SHALL BE BUILT IN THE AREAS SHOWN ON THE APPROVED PLANS AND WHEREVER A CONSTRUCTION ACCESS ROAD INTERSECTS ANY PUBLIC THOROUGHFARE. STABILIZED ENTRANCES SHALL BE BUILT IN ACCORDANCE WITH THE STABILIZED CONSTRUCTION ENTRANCE DETAIL.
- UPON COMPLETION OF CLEARING AND GRUBBING ACTIVITIES, TOPSOIL SHALL BE STRIPPED AND STOCKPILED FROM ALL AREAS TO BE DISTURBED. STOCKPILED TOPSOIL SHALL BE STABILIZED BY TEMPORARY SEEDING AND SURROUNDED WITH A PERIMETER SILT FENCE.
- TEMPORARY EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO COMMENCING EARTH MOVING ACTIVITIES. THIS INCLUDES SEDIMENTATION TRAPS, TYPE "B" DIVERSION SWALES (WITH CHECK DAMS IF APPLICABLE) AND SILT FENCE IN AREAS NOT DESIGNATED TO BE GRADED. INSTALLATION SHALL BEGIN AT DOWNSTREAM PORTIONS OF THE SITE THEN WORKING UPSTREAM.
- IMMEDIATELY AFTER COMPLETION OF ROUGH GRADING, REMAINING TEMPORARY EROSION CONTROL SHALL BE INSTALLED AS SPECIFIED ON THE APPROVED PLANS. THIS INCLUDES ANY REMAINING SILT FENCE AND TYPE "A" DIVERSION SWALES (WITH CHECK DAMS IF APPLICABLE). AREAS NOT REQUIRING FURTHER EARTHWORK SHALL BE FINE GRADED, TOPSOILED, AND STABILIZED AS EARLY AS POSSIBLE.
- ANY PROPOSED STORM DRAINAGE SHALL BE INSTALLED AND INCORPORATED INTO EROSION CONTROL AS SPECIFIED ON THE APPROVED PLANS. STORM DRAINAGE COMPONENTS SHALL BE PROTECTED FROM SILTATION AS INDICATED.
- UPON COMPLETION OF CONSTRUCTION ACTIVITIES, REMAINING AREAS SHALL BE FINE GRADED, TOPSOILED, AND STABILIZED. PERMANENT VEGETATION AND LANDSCAPING SHALL BE ESTABLISHED.
- TEMPORARY EROSION CONTROL DEVICES SHALL BE REMOVED ONCE UPSTREAM AREAS HAVE BEEN PERMANENTLY STABILIZED. REMOVAL OF TEMPORARY EROSION CONTROL DEVICES SHALL BEGIN WITH THE MOST UPSTREAM PORTIONS OF THE SITE THEN WORKING DOWNSTREAM.
- ALL NEWLY SEEDED VEGETATIVE COVER SHALL BE MAINTAINED. WASHOUTS OR POORLY GROWING AREAS SHALL BE CORRECTED AS THEY OCCUR.

GENERAL EROSION CONTROL NOTES

- FILTER FABRIC IS TO BE MIRAFI 140 AS MANUFACTURED BY THE CELANESE CORPORATION OR APPROVED EQUAL.
- WHEREVER FEASIBLE, NATURAL VEGETATION SHOULD BE RETAINED AND PROTECTED.
- ONLY THE SMALLEST PRACTICAL AREA OF LAND SHOULD BE EXPOSED AT ANY ONE TIME DURING DEVELOPMENT.
- WHEN LAND IS EXPOSED DURING DEVELOPMENT, THE EXPOSURE SHALL BE KEPT TO THE SHORTEST PRACTICAL PERIOD OF TIME.
- ALL WORK SHALL BE IN ACCORDANCE WITH ALL OF THE ATTACHED DRAWINGS.

MAINTENANCE REQUIREMENTS

- THE MAINTENANCE OF EROSION CONTROL DEVICES WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE JOB SUPERINTENDENT WILL MONITOR THE CONDITION OF ALL THE DEVICES. CLEAN OR REPLACE STRUCTURES AS CLIMATIC CONDITIONS REQUIRE. THE DEVELOPER WILL ALSO BE SUBJECT TO THE DIRECTIVE OF THE DESIGN ENGINEER AND TOWN REPRESENTATIVES TO INCLUDE TOWN ENGINEER, HIGHWAY SUPERINTENDENT AND BUILDING INSPECTOR.
- GENERAL CONTRACTOR AND ALL CONTRACTORS SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE APPROVED PLANS AND MAY BE SUBJECT TO ADDITIONAL EROSION CONTROL REQUIREMENTS AS CONDITIONS MAY ARISE IN THE FIELD OR AS DIRECTED BY THE DESIGN ENGINEER.
- THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES IN ACCORDANCE WITH THE APPROVED PLANS. MANUFACTURER'S RECOMMENDATIONS AS DIRECTED BY THE DESIGN ENGINEER AND TOWN REPRESENTATIVES INCLUDING TOWN ENGINEER, HIGHWAY SUPERINTENDENT AND BUILDING INSPECTOR.
- NO EROSION CONTROL STRUCTURES SHALL BE REMOVED UNTIL ALL WORK UPSTREAM THEREFROM HAS BEEN COMPLETED, INCLUDING STABILIZATION AND APPROVED BY THE DESIGN ENGINEER AND TOWN REPRESENTATIVES.
- CONSTRUCTION ACTIVITIES TO BE LIMITED TO THE PERIOD OF 7:00 AM TO 7:00 PM.
- ALL CONSTRUCTION EQUIPMENT SHALL HAVE PROPERLY SIZED MAINTAINED MUFFLERS.
- ALL CONSTRUCTION EQUIPMENT SHALL BE TURNED OFF WHEN NOT IN USE.

STREAMS, DRAINAGE SWALES AND EMBANKMENTS

- ALL CONSTRUCTION ACTIVITIES IN OR EXISTING AROUND DRAINAGE SWALES OR WETLANDS ARE TO BE PROVIDED WITH TEMPORARY EROSION CONTROL STRUCTURES AS SHOWN IN DETAIL. LOCATED IMMEDIATELY DOWNSTREAM FROM SUCH ACTIVITY. THESE STRUCTURES ARE TO BE IN PLACE AS SHOWN PRIOR TO THE START OF ANY UP-STREAM CONSTRUCTION ACTIVITY.
- CONSTRUCTION EQUIPMENT SHALL NOT UNNECESSARILY CROSS LIVE STREAMS OR DRAINAGE SWALES EXCEPT BY MEANS OF BRIDGES AND CULVERTS OR OTHER APPROVED METHODS.
- ALL EMBANKMENTS TO BE GRADED AND SEEDED IMMEDIATELY UPON BEING LAID BACK.
- STABILIZATION OF THE SWALES WILL INCLUDE SEEDING AND STRAW MULCH ON SLOPES LESS THAN 5% AND JUTE NETTING OR EQUAL ON SLOPES EXCEEDING 5%.
- TOPSOIL AND/OR EARTH STOCKPILE SHALL BE LOCATED OUTSIDE OF EXISTING DRAINAGE SWALES, WETLANDS AND ADJACENT AREAS. SILT FENCES WILL BE PLACED ALONG THE TOE OF THE PILES AND THESE PILES SHALL RECEIVE TEMPORARY SEEDING.

SLOPE STABILIZATION, SEEDING METHOD & MULCHING

SLOPES OF 4:1 OR GREATER (HORIZONTAL/VERTICAL)

- SLOPES SHALL BE HYDROSEEDING WITH THE MIXTURES AND RATES INDICATED IN THE PERMANENT SEEDING MIXTURE SCHEDULE. STRAW OR HAY MULCH SHALL BE APPLIED AT A RATE OF 2000 LBS/ACRE. STRAW OR HAY MULCH SHALL BE ANCHORED WITH BioD-Mesh60 NETTING AS MANUFACTURED BY BULANKA INTERNATIONAL, OR APPROVED EQUIVALENT. NETTING TO BE INSTALLED PER MANUFACTURER SPECIFICATIONS.

GENITE SLOPES AND FLAT AREAS

- AREAS SHALL BE SEEDED BY HYDROSEEDING OR BROADCASTING WITH THE MIXTURES AND RATES INDICATED ON THE PERMANENT SEEDING MIXTURE SCHEDULE. HYDROSEEDING AREAS SHALL BE MULCHED WITH A WOOD FIBER MULCH APPLIED AT A RATE OF 500 LBS/ACRE. BROADCAST AREAS SHALL MULCHED WITH HAY OR STRAW AT A RATE OF 2000 LBS/ACRE. AREAS SEEDED BY BROADCASTING SHALL BE LIGHTLY RAKED AND PACKED PRIOR TO PLACING MULCH.

SEEDBED PREPARATION & AMENDMENTS

MODERATE TO STEEP SLOPES AND LOW MAINTENANCE AREAS

- SCARIFY SOIL TO DEPTH OF 4" TO 6" IF COMPACTED.
- REMOVED LARGE STONES AND STUMPS ALLOWING ROCKS, ROOTS CLOUDS AND OTHER NATURAL DEBRIS TO REMAIN.
- ROUGHEN SLOPE FACES BY MAKING GROVES 2"-3" DEEP, PERPENDICULAR TO THE SLOPE WITH DISK OR YORK RAKE.
- LIME AS REQUIRED TO ACHIEVE A pH OF 6.0.
- FERTILIZE AT A RATE OF 800 LBS/ACRE OF 5-10-10 FERTILIZER OR AS RECOMMENDED BY SOIL TESTS.
- INCORPORATE LIME AND FERTILIZER INTO TOP 4" OF SOIL BY ROUGHENING.

GENERAL RECREATION AREAS AND LAWNS

- PLACE TOPSOIL TO A MINIMUM DEPTH OF 4"
- SCARIFY SOIL TO A DEPTH OF 4"-6" IF COMPACTED
- REMOVE ALL STONES OVER 1" IN DIAMETER, STICKS AND FOREIGN MATTER FROM THE SURFACE.
- LIME AS REQUIRED TO ACHIEVE A pH OF 6.5.
- FERTILIZE AT A RATE OF 850 LBS/ACRE OF 5-10-10 OR EQUIVALENT FERTILIZER OR AS RECOMMENDED BY SOIL TESTS.
- INCORPORATE LIME AND FERTILIZER INTO TOP 2"-4" OF TOPSOIL.
- SMOOTH AND FIRM THE SEEDBED.

RESERVED FOR TOWN OF CHESTER PLANNING BOARD APPROVAL

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10-28-16	PRELIMINARY DESIGN OF REVEDED LAYOUT	MWS
3-31-16	REVISED CLUSTER LAYOUT PER HIGHWAY COMMENT	NR
6-19-15	REVISED PER PB COMMENTS	MWS
9-4-14	REVISED ENTRANCE	JUP
6-16-14	ORIGINAL PREPARATION DATE	JUP

MAP CHECK DATE: 00/00/00 INITIALED BY: --

BARODA CLUSTER SUBDIVISION

TOWN OF CHESTER
COUNTY OF ORANGE, NEW YORK

PROJECT TITLE

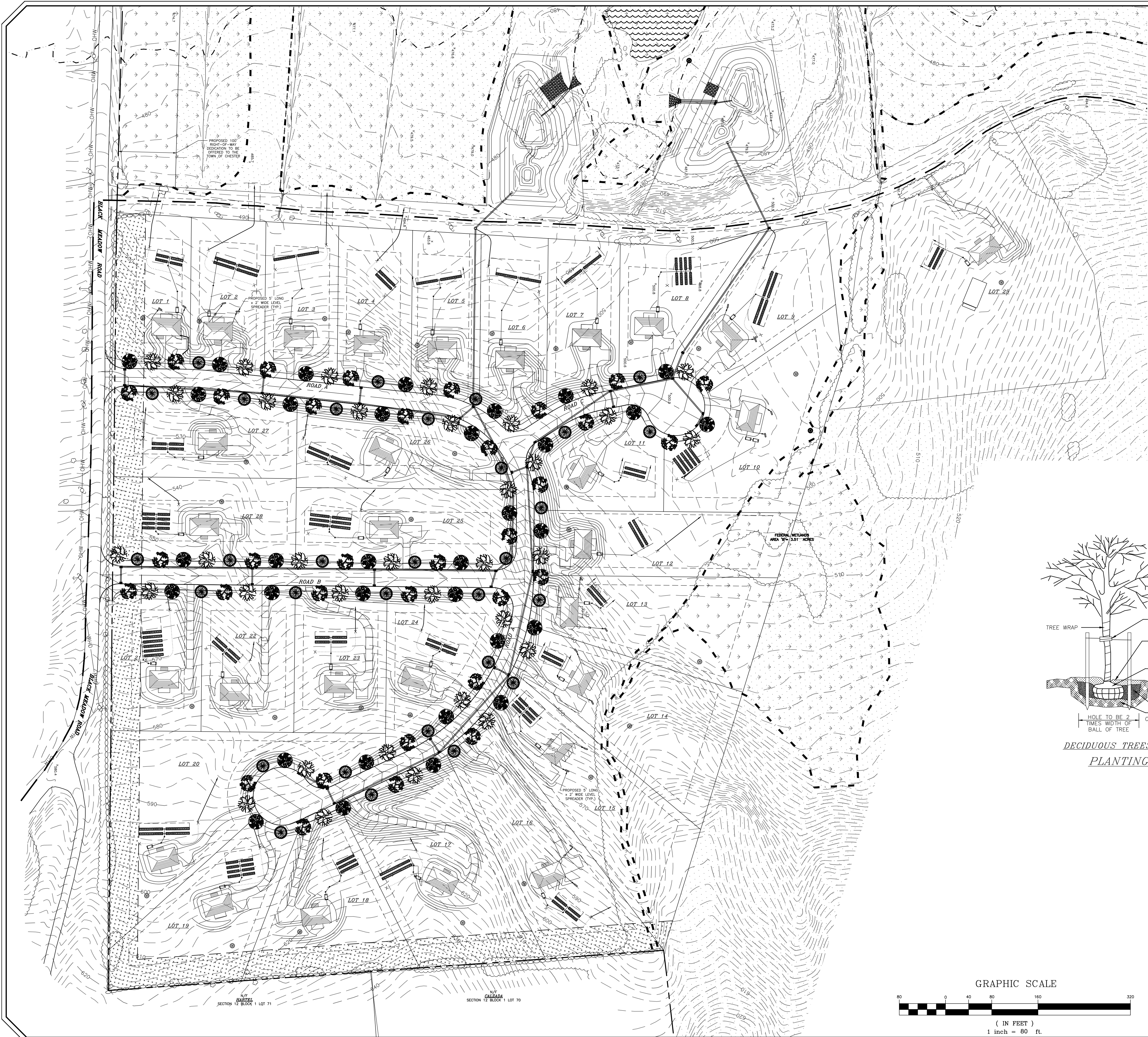
EROSION CONTROL DETAILS

SECTION 12, BLOCK 1, LOT 31
(NOT FOR OCHD REVIEW OR APPROVAL)

UNAUTHORIZED ALTERATION OR ADDITION TO A PLAN BEARING A LICENSED LAND SURVEYOR'S OR PROFESSIONAL ENGINEER'S SEAL IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2 OF THE N.Y. STATE EDUCATION LAW.

O.C.H.D. SHEET NO.	D.E.C. SHEET NO.	DRAWING NUMBER
N/A OF 7	N/A OF N/A	11 OF 17

SCALE	CAD REFERENCE	PROJECT NUMBER
AS SHOWN	WORKING R1	14118.01



STREET TREE AND SCREENING PLANTS LIST					
KEY	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
	10	ACER RUBRUM	RED MAPLE	3" TO 3-1/2" C	B & B
	10	ACER SACCHARUM	SUGAR MAPLE	3" TO 3-1/2" C	B & B
	9	QUERUS PALUSTRIS	PIN OAK	2 1/2 TO 3" CAL.	B & B
	10	QUERCUS RUBRA	NORTHERN RED OAK	3" TO 3-1/2" C	B & B

SHADE & SCREENING TREE PLANTING SPECIFICATIONS

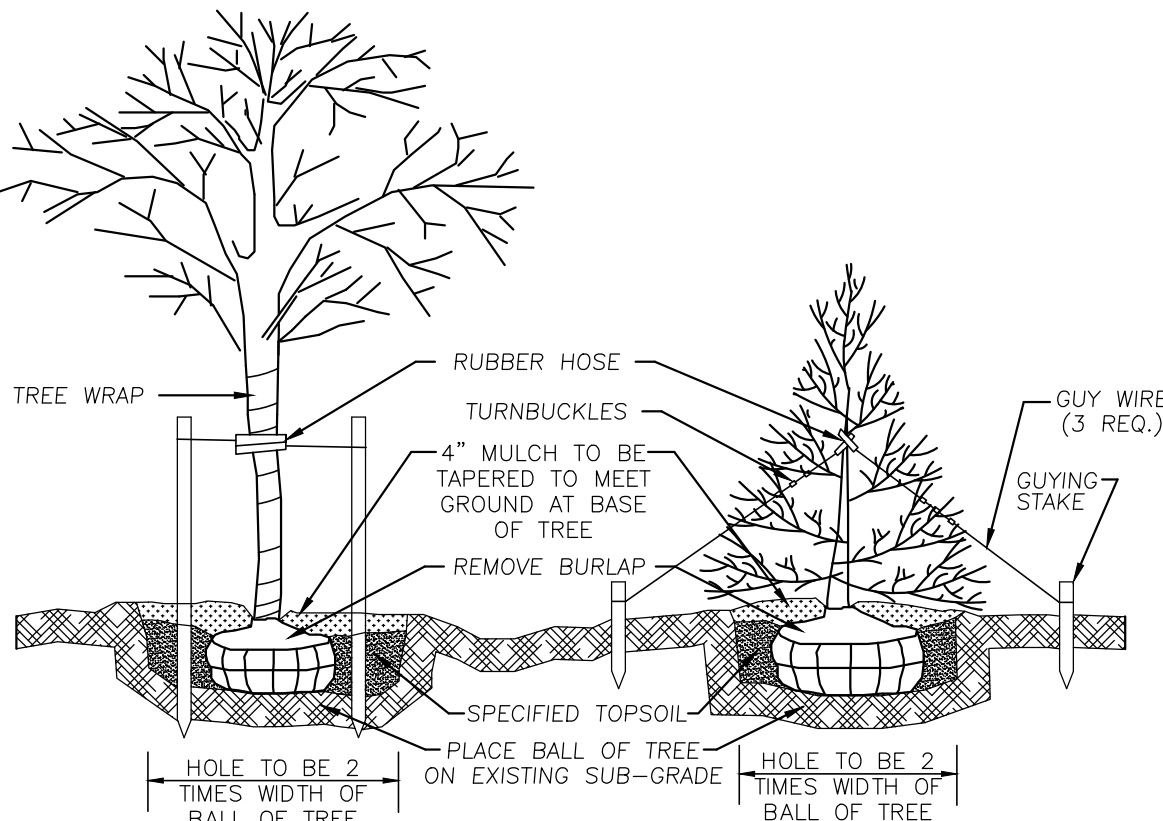
- TREES SHALL BE BALLED AND BURLAPPED, HARDY AND SUITABLE TO LOCAL SOIL AND CLIMATE, AND SHALL NOT BE LESS THAN TWO AND A HALF INCHES CALIPER MEASURED SIX INCHES ABOVE THE TOP OF THE BALL NOR LESS THAN 10 FEET HIGH. THEY MUST BE WELL-BRANCHED, THE BRANCHES TO START NOT LESS THAN SIX FEET FROM THE CROWN OF THE ROOT SYSTEM. TREES SHOULD BE NURSERY GROWN, AND A NURSERY INSPECTION CERTIFICATE SHOULD BE AVAILABLE, COVERING ALL TREES. ALL TREES MUST MEET THE STANDARDS OF THE AMERICAN STANDARD FOR NURSERY STOCK.
- SHADE TREES SHALL BE PLANTED ONE FOOT TO FIVE FEET OUTSIDE OF THE RIGHT-OF-WAY LINE, AND APPROXIMATELY 40 FEET APART. TREES SHOULD BE STAGGERED WHEN PLANTED ON OPPOSITE SIDES OF THE SAME STREET.
- IN GENERAL, EXCAVATIONS FOR PLANTING SHALL BE LARGE ENOUGH TO ACCOMMODATE THE NATURAL SPREAD OF THE ROOT SYSTEM AND AT LEAST TWO TIMES THE WIDTH OF THE BALL OF EARTH SUPPLIED WITH THE TREE. THE PIT SHALL BE ROCK FREE AND REFILLED WITH SEVEN PARTS TOPSOIL AND ONE PART HUMUS AND THE PARENT SOIL DISCARDED. HARDPAN SHALL BE LOOSEENED AN ADDITIONAL TWELVE INCHES FROM THE BOTTOM AND SIDE OF PIT. TREES SHALL BE ADEQUATELY FERTILIZED AND WATERED AT THE TIME OF PLANTING AND MULCHED WITH THREE INCHES OF APPROVED MULCH IMMEDIATELY AFTER PLANTING.
- TREES SHALL BE STAKED AND GUYED IMMEDIATELY AFTER PLANTING. STAKES SHALL BE OF CEDAR OR OAK, EIGHT FEET LONG, NO LESS THAN TWO INCHES IN DIAMETER AND DRIVEN INTO THE TREES ROOT SYSTEM. TREES SHOULD BE GUYED TO THE STAKE USING NO. 10 WIRE COVERED WITH RUBBER HOSE OR EQUAL. THE WIRE SHALL BE STAPLED TO THE STAKE IN SUCH A MANNER THAT IT WILL NOT SLIP OR COME INTO CONTACT WITH THE TREE TRUNK. THE TRUNK OF THE TREE MAY BE PROTECTED WITH TREE WRAPPING PAPER.
- REMOVAL OF DEBRIS IS REQUIRED. THE PROPERTY MUST BE LEFT IN A NEAT AND ORDERLY CONDITION IN ACCORDANCE WITH GOOD AND ACCEPTED PLANTING AND TREE SURGERY PRACTICES.
- ALL TREE VARIETIES, PLACEMENT, CONDITION AND QUALITY ARE SUBJECT TO THE APPROVAL OF THE TOWN PLANNING BOARD PRIOR TO AND AFTER PLANTING. POPLARS, BOX ELDERS, CATALPAS, HORSE CHESTNUTS, WILLOWS AND ELMS SHALL NOT BE PLANTED.
- CONTRACTOR SHALL VERIFY LOCATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO PLANTING. CONTRACTOR SHALL FIELD ADJUST LOCATION OF SHADE TREES, AS NECESSARY, TO AVOID DAMAGE TO ALL EXISTING UNDERGROUND UTILITIES AND/OR EXISTING ABOVE GROUND ELEMENTS. ALL FIELD ADJUSTMENTS MUST MEET THE REGULATIONS SET FORTH IN THE TOWN OF CHESTER SUBDIVISION REGULATIONS, SECTION 83-20B.
- EXISTING VEGETATION AREAS DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE TOPSOILED AND SEEDED UPON COMPLETION OF WORK. (SEE PERMANENT SEEDING MIXTURE TABLE ON SHEET 6 OF 9.)
- ALL PLANT MATERIAL ON THIS SHEET AND ALL SHEETS ASSOCIATED WITH THIS DRAWING SET MUST MEET THE STANDARDS SET FORTH IN THE LATEST EDITION OF THE AMERICAN NURSERYMAN'S STANDARDS FOR NURSERY STOCK.
- STREET TREES ARE SHOWN ON THE PLAN. IF EXISTING TREES REMAIN WITHIN 20' OF THE PUBLIC OR PRIVATE ROAD, AND NO GRADING OCCURRED UNDER THE DRIP LINE OF THE TREE, IT MAY BE COUNTED AS A STREET TREE AND A NEWLY PLANTED TREE MAY NOT BE NECESSARY. THE DETERMINATION FOR THE NEED FOR STREET TREES AFTER THE ROAD IS INSTALLED, SHALL BE THE DISCRETION OF THE TOWN OF CHESTER BUILDING DEPARTMENT OR THEIR CONSULTANT.

LANDSCAPE WARRANTY NOTE:

- ALL PLANTS SHALL BE WARRANTED FOR A PERIOD OF TWO YEARS. REPLACE, IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS, ALL PLANTS THAT ARE MISSING, MORE THAN 25% DEAD, DO NOT DEVELOP FROM PLANTING STOCK, APPEAR UNHEALTHY OR UNSIGHTLY AND/OR HAVE LOST THEIR NATURAL SHAPE DUE TO DEAD BRANCHES. ANY TREE THAT LOSES THE MAIN LEADER SHALL BE REPLACED.
- PLANT MATERIAL SHALL BE INSPECTED BY A REPRESENTATIVE (OR LANDSCAPE ARCHITECTURAL CONSULTANT) FROM THE TOWN OF CHESTER UPON COMPLETION OF WORK AND DURING EVERY GROWING SEASON FOR TWO YEARS. PLANTS THAT NEED REPLACEMENT SHALL BE NOTED ON AN INSPECTION REPORT AND MUST BE REPLACED WITHIN TWO MONTHS OF RECEIPT OF THE INSPECTION REPORT OR WITHIN TWO MONTHS FOLLOWING THE NEXT GROWING SEASON.

TEMPORARY MAINTENANCE EASEMENT NOTE:

- IN ORDER FOR THE TREES TO BE MAINTAINED OR REPLACED BY THE DEVELOPER, A TEN FOOT WIDE TEMPORARY MAINTENANCE EASEMENT SHALL RUN PARALLEL TO THE RIGHT-OF-WAY UNTIL RELEASE OF THE MAINTENANCE SECURITY FOR THE TREES.



DECIDUOUS TREES
EVERGREEN TREES
PLANTING & GUYING DETAIL
N.T.S.

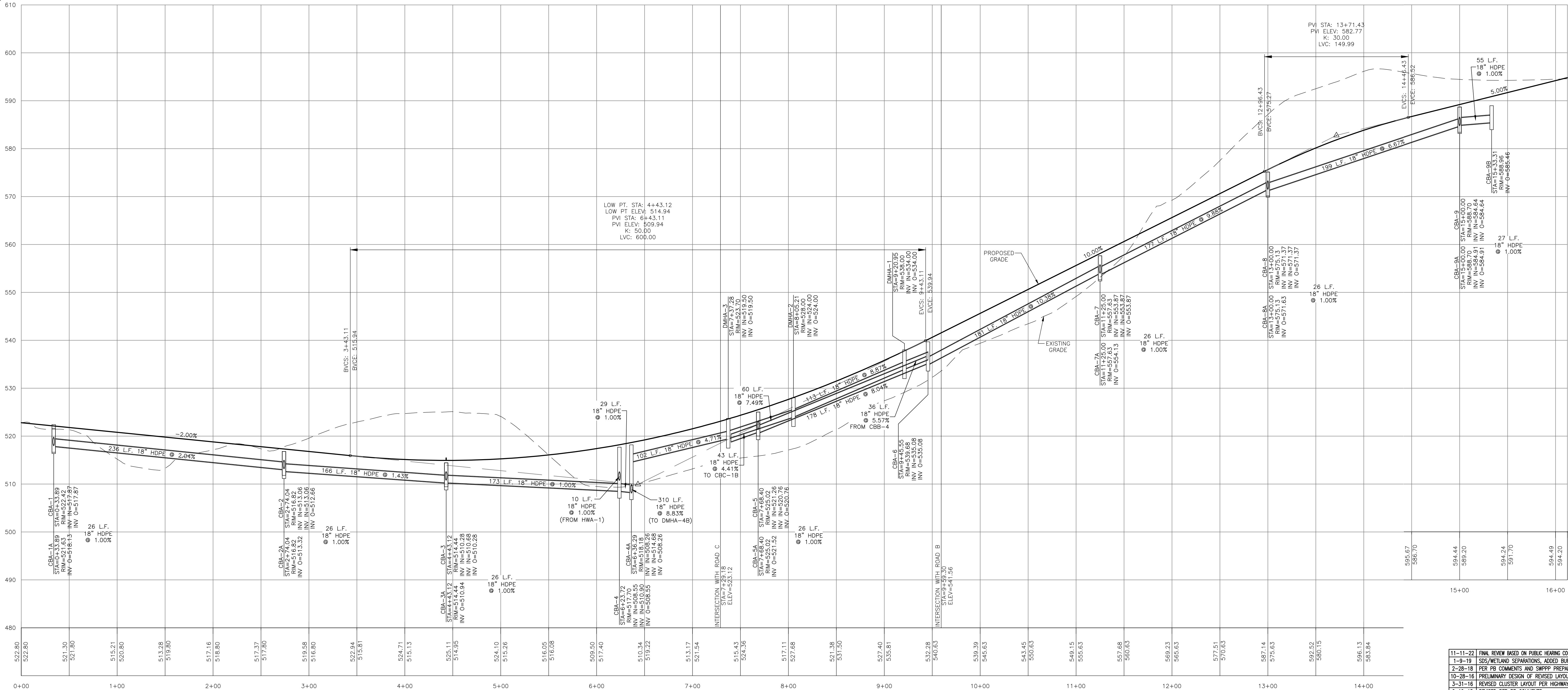
11-11-22	FINAL REVIEW BASED ON PUBLIC HEARING COMMENTS	JUP
1-9-19	SDS/METLAND SEPARATIONS, ADDED BUFFERS	JUP
2-28-18	PER PB COMMENTS AND SWPPP PREPARATION	MWS
10-28-16	PRELIMINARY DESIGN OF REVISED LAYOUT	MWS
3-31-16	REVISED CLUSTER LAYOUT PER HIGHWAY COMMENT	NR
6-19-15	REVISED PER PB COMMENTS	MWS
9-4-14	REVISED ENTRANCE	JUP
6-16-14	ORIGINAL PREPARATION DATE	JUP
DATE	DESCRIPTION	INITIALS
REVISIONS		
MAP CHECK DATE:	00/00/00	INITIALED BY: --

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(945) 796-4646**

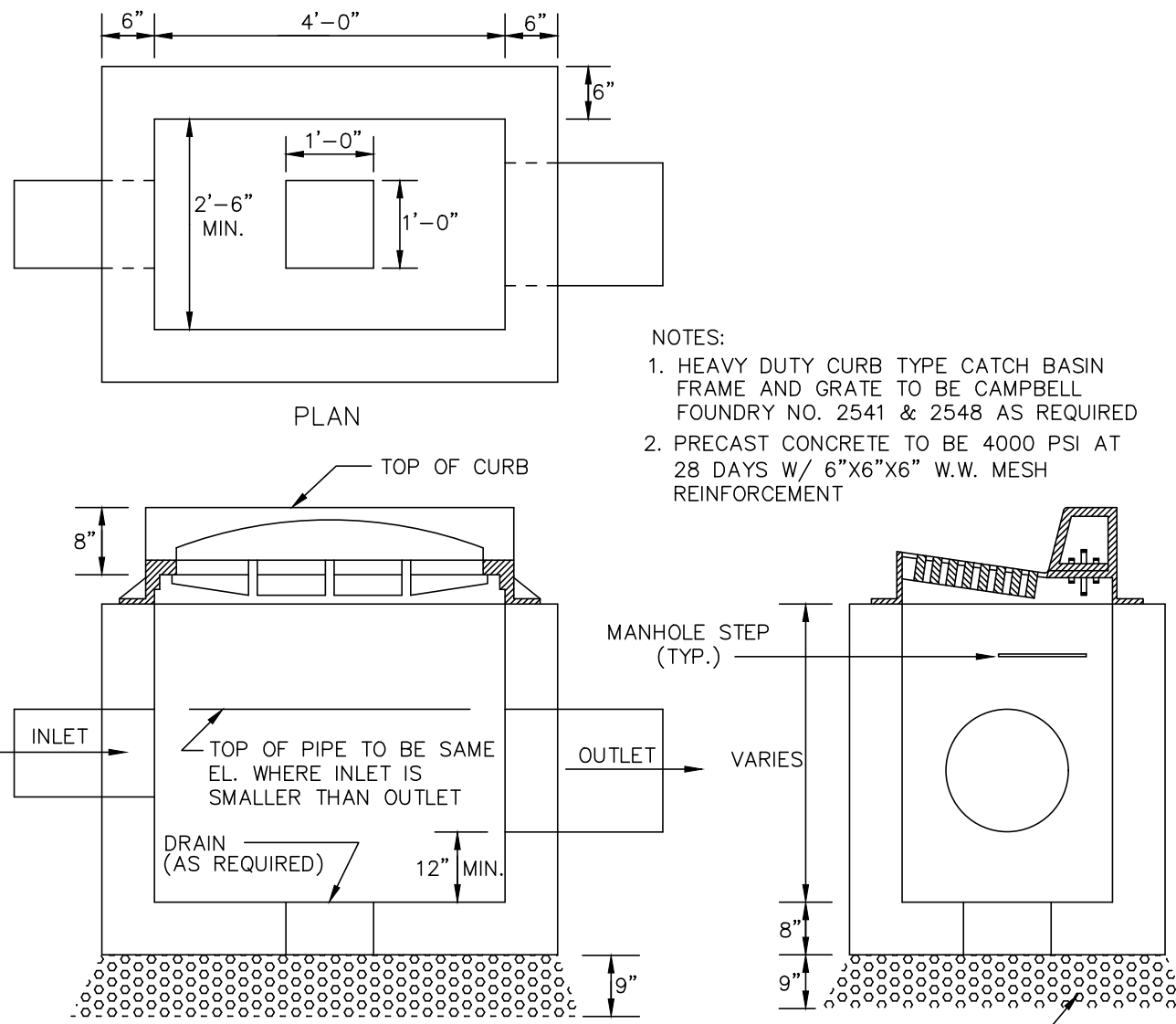
JOSEPH J. PFAU P.E. LICENSE NO. 058945	MICHAEL F. CROSBY P.L.S. LICENSE NO. 050323
VINCENT A. PIETRZAK P.E., P.L.S., LEAD CAP P.E. LICENSE NO. 070509 N.Y.P.L.S. LICENSE NO. 35396	

SIGNATURE	DATE
BARODA CLUSTER SUBDIVISION	
TOWN OF CHESTER COUNTY OF ORANGE, NEW YORK	
PROJECT TITLE	
STREET TREE PLAN	
SECTION 12, BLOCK 1, LOT 31 (NOT FOR OCHD REVIEW OR APPROVAL)	
DRAWING TITLE	
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O.C.H.D. SHEET NO. N/A OF 7	D.E.C. SHEET NO. N/A OF N/A
SCALE 1"=80'	CAD REFERENCE WORKING R1
DRAWING NUMBER 12 OF 17	PROJECT NUMBER 14118.01

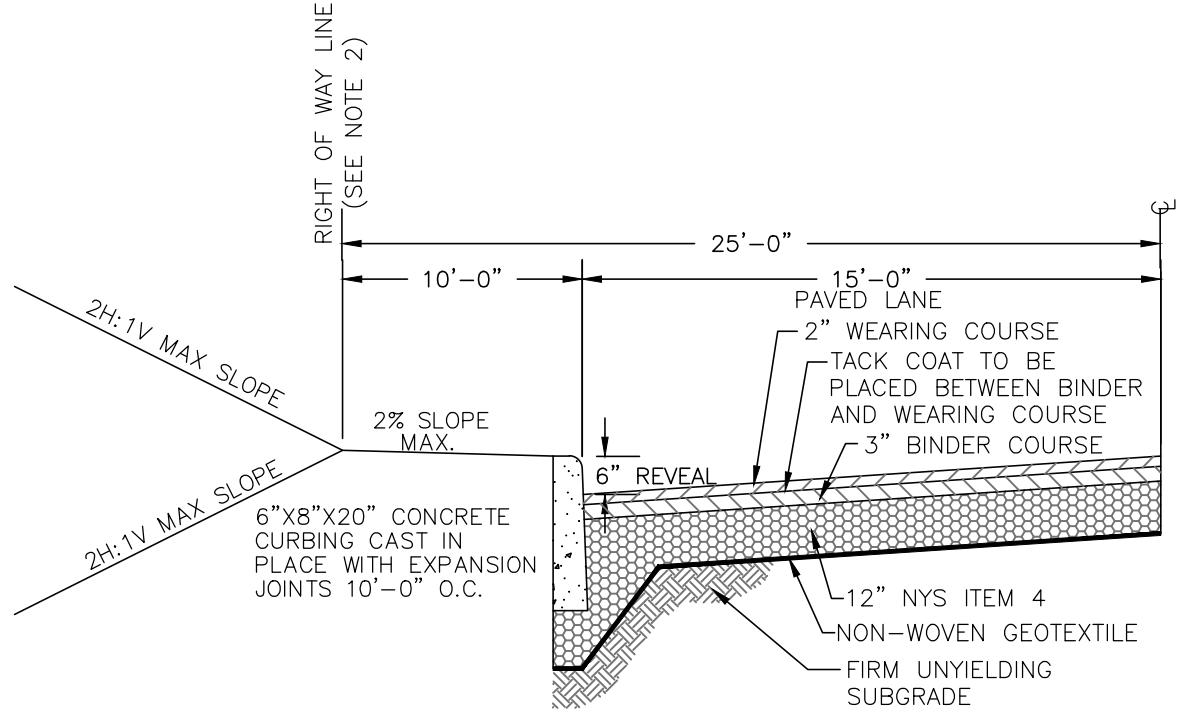


PROPOSED ROAD A PROFILE

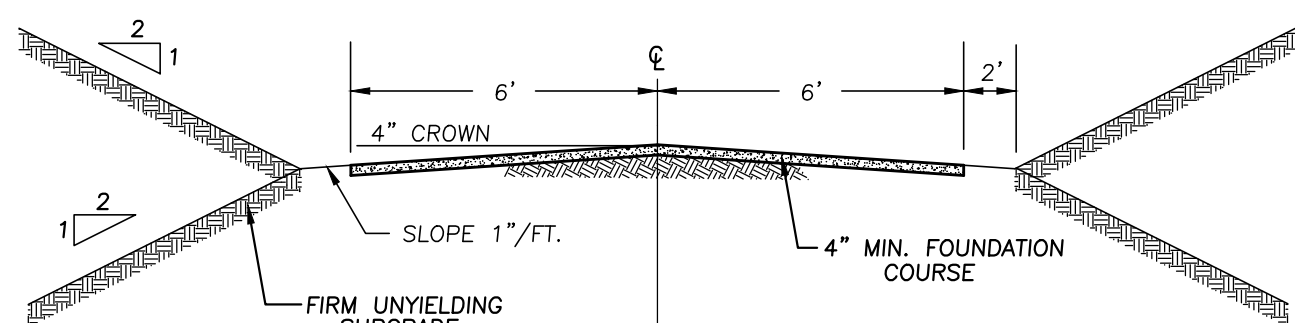
PROFILE SCALE:
VERTICAL: 1" = 10'
HORIZONTAL: 1" = 50'



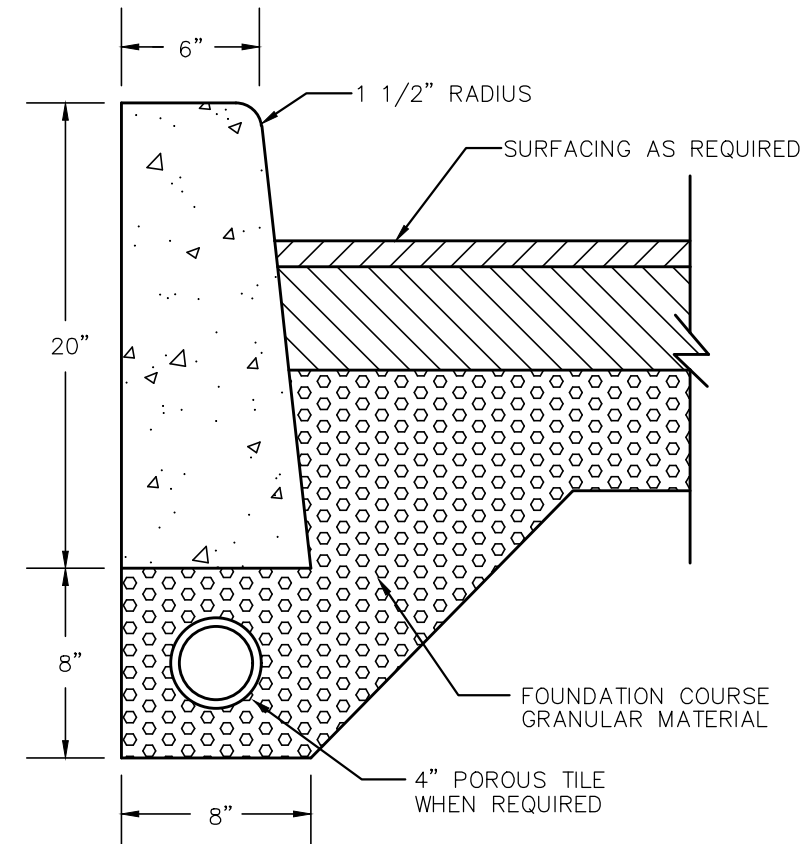
PRECAST CONCRETE CURB INLET DETAIL
N.T.S.



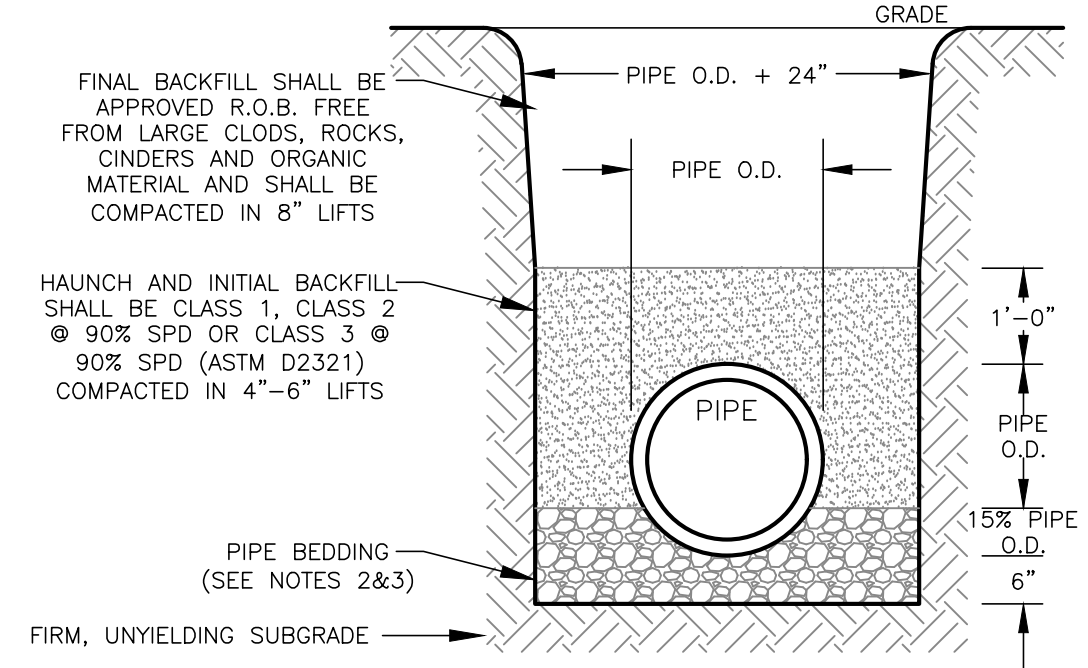
TYPICAL ROAD HALF SECTION
N.T.S.



DRIVEWAY CROSS SECTION
N.T.S.



CONCRETE CURB DETAIL
N.T.S.



PIPE BEDDING & BACKFILL DETAIL
N.T.S.

11-11-22	FINAL REVIEW BASED ON PUBLIC HEARING COMMENTS	JUP
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6-16-14	ORIGINAL PREPARATION DATE	JUP
DATE	DESCRIPTION	INITIALS

MAP CHECK DATE: 00/00/00 INITIALED BY: --

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VINCENT A. PIETRZAK P.E., P.L.S., LEAD CAP
P.E. LICENSE NO. 078638 P.L.S. LICENSE NO. 050075
N.Y.P.L.S. LICENSE NO. 35396

SIGNATURE DATE

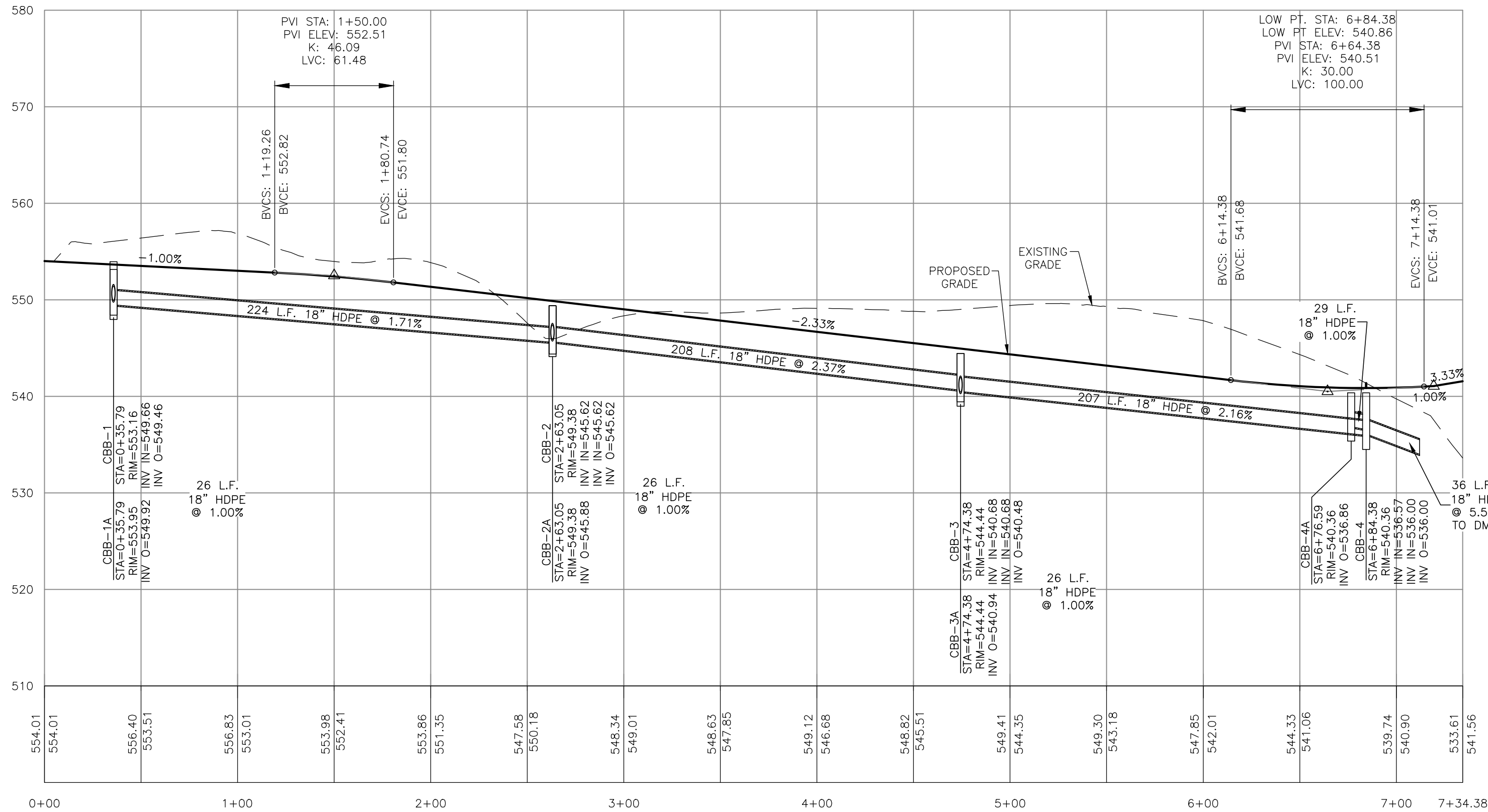
BARODA CLUSTER
SUBDIVISION
TOWN OF CHESTER
COUNTY OF ORANGE, NEW YORK

PROJECT TITLE

PROFILE SHEET & SITE
DETAILS (1)
SECTION 12, BLOCK 1, LOT 31
(NOT FOR OCHD REVIEW OR APPROVAL)
DRAWING TITLE

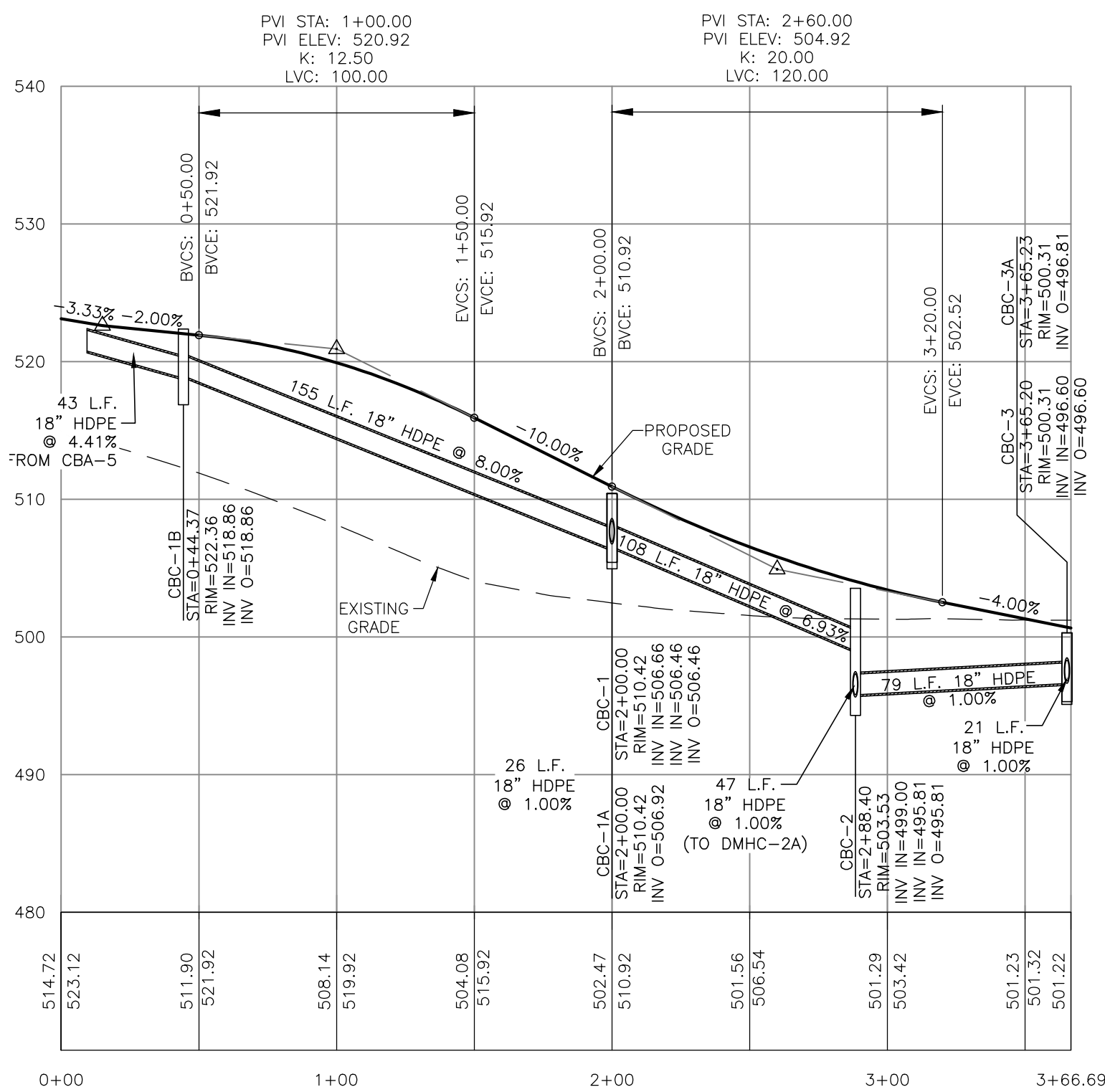
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SCALE AS SHOWN	CAD REFERENCE WORKING R1	PROJECT NUMBER 14118.01



PROPOSED ROAD B PROFILE

PROFILE SCALE:
VERTICAL: 1" = 10'
HORIZONTAL: 1" = 50'



PROPOSED ROAD C PROFILE

PROFILE SCALE:
VERTICAL: 1" = 10'
HORIZONTAL: 1" = 50'

11-11-22	FINAL REVIEW BASED ON PUBLIC HEARING COMMENTS	JUP
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DATE	DESCRIPTION	INITIALS
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SIGNATURE	DATE	
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TOWN OF CHESTER COUNTY OF ORANGE, NEW YORK		
PROJECT TITLE		
PROFILE SHEET & SITE DETAILS (2)		
SECTION 12, BLOCK 1, LOT 31 (NOT FOR OCHD REVIEW OR APPROVAL)		
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O.C.H.D. SHEET NO. N/A OF 7	D.E.C. SHEET NO. N/A OF N/A	DRAWING NUMBER 14 OF 17
SCALE AS SHOWN	CAD REFERENCE WORKING R1	PROJECT NUMBER 14118.01

SOIL TEST RESULTS & SEPTIC SYSTEM DESIGN

LOT #	DEEP TEST PIT #1 RESULTS	DEEP TEST PIT #2 RESULTS	PERC RATE	SEPTIC SYSTEM DESIGN	LOT #	DEEP TEST PIT #1 RESULTS	DEEP TEST PIT #2 RESULTS	PERC RATE	SEPTIC SYSTEM DESIGN
1	0"-10" TOPSOIL 10"-60" LIGHT BROWN SILTY, SANDY LOAM W/ GRAVEL 60"-84" DARK BROWN SILTY LOAM W/ TRACE CLAY NO MOTTLING NOW GROUNDWATER, NO BEDROCK	0"-8" TOPSOIL 8"-48" LIGHT BROWN SILTY, SANDY LOAM W/ HARD CLAY POCKETS 48"-68" DARK BROWN SILTY LOAM MOTTLING @ 36" NO GROUNDWATER, NO BEDROCK	PT1: 7 MIN. DEPTH: 24" PT2: 5 MIN. DEPTH: 24"	ELIEN SEPTIC DESIGNED FOR: 4 BEDROOM MAXIMUM (Q = 475 GAL/DAY) REQUIRED: 79 L.F. TOTAL DESIGNED: 2 LATERALS @ 40", 80 L.F. TOTAL SEPTIC TANK SIZE: 1,250 GALLONS	20	0"-8" TOPSOIL 8"-50" LIGHT BROWN HARD PACKED HEAVILY MOTTLLED CLAY LOAM W/ GRAVEL MOTTLING @ 18" NO GROUNDWATER, NO BEDROCK	0"-8" TOPSOIL 8"-50" LIGHT BROWN HARD PACKED HEAVILY MOTTLLED CLAY LOAM W/ GRAVEL MOTTLING @ 22" NO GROUNDWATER, NO BEDROCK	PT1: 40 MIN. DEPTH: 12" PT2: 7 MIN. DEPTH: 12"	ELIEN SEPTIC DESIGNED FOR: 4 BEDROOM MAXIMUM (Q = 475 GAL/DAY) REQUIRED: 158 L.F. TOTAL DESIGNED: 4 LATERALS @ 40", 160 L.F. TOTAL SEPTIC TANK SIZE: 1,250 GALLONS
2	0"-8" TOPSOIL 8"-60" LIGHT BROWN SILTY, SANDY LOAM W/ GRAVEL & SOME LARGE ROCKS 60"-78" DARK BROWN SILTY LOAM W/ TRACE CLAY MOTTLING @ 60" NO GROUNDWATER, NO BEDROCK	0"-8" TOPSOIL 8"-60" LIGHT BROWN SILTY LOAM W/ HARD CLAY POCKETS 60"-80" DARK BROWN SILTY CLAY LOAM MOTTLING @ 36" NO GROUNDWATER, NO BEDROCK	PT1: 2 MIN. DEPTH: 24" PT2: 29 MIN. DEPTH: 24"	ELIEN SEPTIC DESIGNED FOR: 4 BEDROOM MAXIMUM (Q = 475 GAL/DAY) REQUIRED: 132 L.F. TOTAL DESIGNED: 4 LATERALS @ 36", 144 L.F. TOTAL SEPTIC TANK SIZE: 1,250 GALLONS	21	0"-6" TOPSOIL 6"-32" LIGHT BROWN CLAY LOAM 32"-60" DARK BROWN HEAVILY MOTTLLED SILTY, CLAY LOAM MOTTLING @ 26" NO GROUNDWATER, NO BEDROCK	0"-6" TOPSOIL 6"-52" LIGHT BROWN CLAY LOAM 52"-54" DENSE HARD CLAY LOAM MOTTLING @ 22" NO GROUNDWATER, NO BEDROCK	PT1: 28 MIN. DEPTH: 24" PT2: 47 MIN. DEPTH: 24"	ELIEN SEPTIC DESIGNED FOR: 4 BEDROOM MAXIMUM (Q = 475 GAL/DAY) REQUIRED: 176 L.F. TOTAL DESIGNED: 6 LATERALS @ 32", 192 L.F. TOTAL SEPTIC TANK SIZE: 1,250 GALLONS
3	0"-12" TOPSOIL 12"-62" LIGHT BROWN SILTY LOAM W/ TRACE CLAY 62"-66" DENSE HARD CLAY LOAM MOTTLING @ 42" NO GROUNDWATER, NO BEDROCK	0"-8" TOPSOIL 8"-60" LIGHT BROWN SILTY, SANDY LOAM W/ GRAVEL DENSE HARD CLAY LOAM MOTTLING @ 48" NO GROUNDWATER, NO BEDROCK	PT1: 2 MIN. DEPTH: 24" PT2: 3 MIN. DEPTH: 24"	ELIEN SEPTIC DESIGNED FOR: 4 BEDROOM MAXIMUM (Q = 475 GAL/DAY) REQUIRED: 66 L.F. TOTAL DESIGNED: 2 LATERALS @ 36", 72 L.F. TOTAL SEPTIC TANK SIZE: 1,250 GALLONS	22	0"-10" TOPSOIL 10"-48" LIGHT BROWN HARD PACKED SILTY LOAM W/ GRAVEL MOTTLING @ 20" NO GROUNDWATER, NO BEDROCK	0"-8" TOPSOIL 8"-50" LIGHT BROWN SILTY CLAY LOAM W/ GRAVEL AND SOME LARGE ROCKS MOTTLING @ 24" NO GROUNDWATER, NO BEDROCK	PT1: 9 MIN. DEPTH: 12" PT2: 5 MIN. DEPTH: 12"	ELIEN SEPTIC DESIGNED FOR: 4 BEDROOM MAXIMUM (Q = 475 GAL/DAY) REQUIRED: 88 L.F. TOTAL DESIGNED: 4 LATERALS @ 24", 96 L.F. TOTAL SEPTIC TANK SIZE: 1,250 GALLONS
4	0"-10" TOPSOIL 10"-48" LIGHT BROWN SILTY SANDY LOAM W/ GRAVEL & SOME LARGE ROCKS 48"-70" DARK BROWN SILTY CLAY LOAM MOTTLING @ 40" NO GROUNDWATER, NO BEDROCK	0"-8" TOPSOIL 8"-48" LIGHT BROWN SILTY LOAM W/ HARD CLAY POCKETS 48"-62" DARK BROWN SILTY CLAY LOAM MOTTLING @ 54" NO GROUNDWATER, NO BEDROCK	PT1: 2 MIN. DEPTH: 24" PT2: 2 MIN. DEPTH: 24"	ELIEN SEPTIC DESIGNED FOR: 4 BEDROOM MAXIMUM (Q = 475 GAL/DAY) REQUIRED: 66 L.F. TOTAL DESIGNED: 2 LATERALS @ 36", 72 L.F. TOTAL SEPTIC TANK SIZE: 1,250 GALLONS	23	0"-8" TOPSOIL 8"-30" LIGHT BROWN SILTY LOAM WITH GRAVEL 30"-54" DARK BROWN SILTY CLAY LOAM W/ HARD CLAY POCKETS MOTTLING @ 28" NO GROUNDWATER, NO BEDROCK	0"-10" TOPSOIL 10"-52" LIGHT BROWN SILTY CLAY LOAM W/ SOME MEDIUM SIZED ROCKS AND HARD CLAY POCKETS AT BOTTOM MOTTLING @ 28" NO GROUNDWATER, NO BEDROCK	PT1: 6 MIN. DEPTH: 12" PT2: 8 MIN. DEPTH: 12"	ELIEN SEPTIC DESIGNED FOR: 4 BEDROOM MAXIMUM (Q = 475 GAL/DAY) REQUIRED: 159 L.F. TOTAL DESIGNED: 4 LATERALS @ 24", 96 L.F. TOTAL SEPTIC TANK SIZE: 1,250 GALLONS
5	0"-10" TOPSOIL 10"-40" LIGHT BROWN SILTY, SANDY LOAM 40"-74" DARK BROWN SILTY, CLAY LOAM MOTTLING @ 60" NO GROUNDWATER, NO BEDROCK	0"-8" TOPSOIL 8"-30" LIGHT BROWN SILTY, SANDY LOAM 30"-72" DARK BROWN SANDY LOAM W/ GRAVEL NO MOTTLING NO GROUNDWATER, NO BEDROCK	PT1: 2 MIN. DEPTH: 24" PT2: 2 MIN. DEPTH: 24"	ELIEN SEPTIC DESIGNED FOR: 4 BEDROOM MAXIMUM (Q = 475 GAL/DAY) REQUIRED: 66 L.F. TOTAL DESIGNED: 2 LATERALS @ 36", 72 L.F. TOTAL SEPTIC TANK SIZE: 1,250 GALLONS	24	0"-8" TOPSOIL 8"-50" LIGHT BROWN SILTY LOAM W/ HARD CLAY POCKETS, GRAVEL, & SOME LARGE ROCKS MOTTLING @ 38" NO GROUNDWATER, NO BEDROCK	0"-6" TOPSOIL 6"-72" LIGHT BROWN SILTY LOAM W/ HARD CLAY POCKETS, GRAVEL, & SOME LARGE ROCKS MOTTLING @ 30" NO GROUNDWATER, NO BEDROCK	PT1: 8 MIN. DEPTH: 24" PT2: 8 MIN. DEPTH: 24"	ELIEN SEPTIC DESIGNED FOR: 4 BEDROOM MAXIMUM (Q = 475 GAL/DAY) REQUIRED: 88 L.F. TOTAL DESIGNED: 4 LATERALS @ 36", 144 L.F. TOTAL SEPTIC TANK SIZE: 1,250 GALLONS
6	0"-8" TOPSOIL 8"-40" LIGHT BROWN SILTY LOAM W/ HARD CLAY POCKETS 40"-52" DENSE HARD CLAY LOAM MOTTLING @ 38" NO GROUNDWATER, NO BEDROCK	0"-10" TOPSOIL 10"-54" LIGHT BROWN SILTY LOAM W/ HARD CLAY POCKETS 54"-72" DARK BROWN SANDY LOAM W/ GRAVEL NO MOTTLING NO GROUNDWATER, NO BEDROCK	PT1: 4 MIN. DEPTH: 24" PT2: 2 MIN. DEPTH: 24"	ELIEN SEPTIC DESIGNED FOR: 4 BEDROOM MAXIMUM (Q = 475 GAL/DAY) REQUIRED: 66 L.F. TOTAL DESIGNED: 2 LATERALS @ 36", 72 L.F. TOTAL SEPTIC TANK SIZE: 1,250 GALLONS	25	0"-8" TOPSOIL 8"-52" LIGHT BROWN SILTY CLAY LOAM W/ GRAVEL AND SOME LARGE ROCKS MOTTLING @ 26" NO GROUNDWATER, NO BEDROCK	0"-8" TOPSOIL 8"-54" LIGHT BROWN SILTY CLAY LOAM W/ GRAVEL AND HARD CLAY POCKETS AT BOTTOM MOTTLING @ 28" NO GROUNDWATER, NO BEDROCK	PT1: 50 MIN. DEPTH: 24" PT2: 23 MIN. DEPTH: 24"	ELIEN SEPTIC DESIGNED FOR: 4 BEDROOM MAXIMUM (Q = 475 GAL/DAY) REQUIRED: 176 L.F. TOTAL DESIGNED: 6 LATERALS @ 32", 192 L.F. TOTAL SEPTIC TANK SIZE: 1,250 GALLONS
7	0"-8" TOPSOIL 8"-40" LIGHT BROWN SILTY LOAM W/ TRACE CLAY 40"-74" DARK BROWN FINE SAND NO MOTTLING NO GROUNDWATER, NO BEDROCK	0"-8" TOPSOIL 8"-44" LIGHT BROWN SILTY LOAM W/ TRACE CLAY 44"-66" DARK BROWN FINE SAND NO MOTTLING NO GROUNDWATER, NO BEDROCK	PT1: 2 MIN. DEPTH: 24" PT2: 2 MIN. DEPTH: 24"	ELIEN SEPTIC DESIGNED FOR: 4 BEDROOM MAXIMUM (Q = 475 GAL/DAY) REQUIRED: 66 L.F. TOTAL DESIGNED: 2 LATERALS @ 36", 72 TOTAL SEPTIC TANK SIZE: 1,250 GALLONS	26	0"-8" TOPSOIL 8"-68" LIGHT BROWN SILTY, CLAY LOAM MOTTLING @ 36" NO GROUNDWATER, NO BEDROCK	0"-10" TOPSOIL 10"-48" LIGHT BROWN SILTY LOAM W/ GRAVEL 48"-70" DARK BROWN SILTY, CLAY LOAM MOTTLING @ 40" NO GROUNDWATER, NO BEDROCK	PT1: 24 MIN. DEPTH: 24" PT2: 20 MIN. DEPTH: 24"	ELIEN SEPTIC DESIGNED FOR: 4 BEDROOM MAXIMUM (Q = 475 GAL/DAY) REQUIRED: 132 L.F. TOTAL DESIGNED: 4 LATERALS @ 36", 144 L.F. TOTAL SEPTIC TANK SIZE: 1,250 GALLONS
8	0"-6" TOPSOIL 6"-60" LIGHT BROWN SILTY LOAM W/ HARD CLAY POCKETS 60"-74" DARK BROWN FINE SAND MOTTLING @ 20" NO GROUNDWATER, NO BEDROCK	0"-6" TOPSOIL 6"-72" LIGHT BROWN SILTY LOAM W/ HARD CLAY POCKETS MOTTLING @ 26" NO GROUNDWATER, NO BEDROCK	PT1: 31 MIN. DEPTH: 24" PT2: 40 MIN. DEPTH: 24"	ELIEN SEPTIC DESIGNED FOR: 4 BEDROOM MAXIMUM (Q = 475 GAL/DAY) REQUIRED: 158 L.F. TOTAL DESIGNED: 8 LATERALS @ 20", 160 L.F. TOTAL SEPTIC TANK SIZE: 1,250 GALLONS	27	0"-8" TOPSOIL 8"-48" LIGHT BROWN CLAY LOAM 48"-66" DARK BROWN SILTY LOAM W/ GRAVEL MOTTLING @ 26" NO GROUNDWATER, NO BEDROCK	0"-8" TOPSOIL 8"-38" LIGHT BROWN SILTY LOAM 38"-76" DARK BROWN SILTY, SANDY LOAM NO MOTTLING NO GROUNDWATER, NO BEDROCK	PT1: 9 MIN. DEPTH: 24" PT2: 4 MIN. DEPTH: 24"	ELIEN SEPTIC DESIGNED FOR: 4 BEDROOM MAXIMUM (Q = 475 GAL/DAY) REQUIRED: 88 L.F. TOTAL DESIGNED: 4 LATERALS @ 24", 96 L.F. TOTAL SEPTIC TANK SIZE: 1,250 GALLONS
9	0"-8" TOPSOIL 8"-60" LIGHT BROWN SILTY LOAM W/ HARD CLAY POCKETS MOTTLING @ 26" NO GROUNDWATER, NO BEDROCK	0"-8" TOPSOIL 8"-54" LIGHT BROWN SILTY LOAM W/ GRAVEL & HARD CLAY POCKETS 54"-62" CLAY MOTTLING @ 22" NO GROUNDWATER, NO BEDROCK	PT1: 37 MIN. DEPTH: 24" PT2: 3 MIN. DEPTH: 24"	ELIEN SEPTIC DESIGNED FOR: 4 BEDROOM MAXIMUM (Q = 475 GAL/DAY) REQUIRED: 158 L.F. TOTAL DESIGNED: 4 LATERALS @ 44", 176 L.F. TOTAL SEPTIC TANK SIZE: 1,250 GALLONS	28	0"-8" TOPSOIL 8"-32" LIGHT BROWN CLAY LOAM 32"-52" DARK BROWN HEAVILY MOTTLLED SILTY, CLAY LOAM MOTTLING @ 24" NO GROUNDWATER, NO BEDROCK	0"-6" TOPSOIL 6"-36" LIGHT BROWN CLAY LOAM 36"-60" DARK BROWN HEAVILY MOTTLLED SILTY, CLAY LOAM MOTTLING @ 30" NO GROUNDWATER, NO BEDROCK	PT1: 26 MIN. DEPTH: 24" PT2: 32 MIN. DEPTH: 24"	ELIEN SEPTIC DESIGNED FOR: 4 BEDROOM MAXIMUM (Q = 475 GAL/DAY) REQUIRED: 159 L.F. TOTAL DESIGNED: 8 LATERALS @ 20", 160 L.F. TOTAL SEPTIC TANK SIZE: 1,250 GALLONS
10	0"-10" TOPSOIL 10"-48" LIGHT BROWN SILTY LOAM 48"-82" DARK BROWN FINE SAND NO MOTTLING NO GROUNDWATER, NO BEDROCK	0"-8" TOPSOIL 8"-30" LIGHT BROWN HARD PACKED SILTY LOAM 30"-78" DARK BROWN FINE SAND MOTTLING @ 20" NO GROUNDWATER, NO BEDROCK	PT1: 45 MIN. DEPTH: 24" PT2: 35 MIN. DEPTH: 24"	ELIEN SEPTIC DESIGNED FOR: 4 BEDROOM MAXIMUM (Q = 475 GAL/DAY) REQUIRED: 158 L.F. TOTAL DESIGNED: 4 LATERALS @ 40", 160 L.F. TOTAL SEPTIC TANK SIZE: 1,250 GALLONS	29	TP1 0"-10" TOPSOIL 10"-36" LIGHT BROWN SILTY, SAND LOAM 36"-56" DARK FINE SAND 56"-64" SANDY GRAVEL (BANK RUN) NO MOTTLING NO GROUNDWATER, NO BEDROCK	TP2 0"-8" TOPSOIL 8"-30" LIGHT BROWN SILTY, SANDY LOAM @ 30" HARD SHALE NO MOTTLING NO GROUNDWATER	PT1: 2 MIN. DEPTH: 24" PT2: 3 MIN. DEPTH: 24"	ELIEN SEPTIC DESIGNED FOR: 4 BEDROOM MAXIMUM (Q = 475 GAL/DAY) REQUIRED: 66 L.F. TOTAL DESIGNED: 2 LATERALS @ 36", 72 L.F. TOTAL SEPTIC TANK SIZE: 1,250 GALLONS
11	0"-10" TOPSOIL 10"-80" LIGHT BROWN SILTY, SANDY LOAM NO MOTTLING NO GROUNDWATER, NO BEDROCK	0"-8" TOPSOIL 8"-88" LIGHT BROWN SILTY, SANDY LOAM W/ GRAVEL NO MOTTLING NO GROUNDWATER, NO BEDROCK	PT1: 4 MIN. DEPTH: 24" PT2: 2 MIN. DEPTH: 24"	ELIEN SEPTIC DESIGNED FOR: 4 BEDROOM MAXIMUM (Q = 475 GAL/DAY) REQUIRED: 66 L.F. TOTAL DESIGNED: 2 LATERALS @ 36", 72 L.F. TOTAL SEPTIC TANK SIZE: 1,250 GALLONS		TP3 0"-10" TOPSOIL @ 10" HARD SHALE NO MOTTLING NO GROUNDWATER	TP4 0"-12" TOPSOIL 12"-68" LIGHT BROWN SILTY, SANDY LOAM NO MOTTLING NO GROUNDWATER		
12	0"-12" TOPSOIL 12"-40" LIGHT BROWN HARD PACKED SILTY LOAM W/ GRAVEL 40"-78" DARK BROWN FINE SAND MOTTLING @ 24" NO GROUNDWATER, NO BEDROCK	0"-8" TOPSOIL 8"-40" LIGHT BROWN SILTY LOAM W/ GRAVEL 40"-72" LIGHT BROWN SILTY LOAM W/ GRAVEL NO MOTTLING NO GROUNDWATER, NO BEDROCK	PT1: 8 MIN. DEPTH: 24" PT2: 3 MIN. DEPTH: 24"	ELIEN SEPTIC DESIGNED FOR: 4 BEDROOM MAXIMUM (Q = 475 GAL/DAY) REQUIRED: 88 L.F. TOTAL DESIGNED: 2 LATERALS @ 48", 96 L.F. TOTAL SEPTIC TANK SIZE: 1,250 GALLONS		TP5 0"-8" TOPSOIL 8"-30" LIGHT BROWN SILTY LOAM 30"-56" DARK BROWN SILTY, CLAY LOAM NO MOTTLING NO GROUNDWATER, NO BEDROCK			
13	0"-8" TOPSOIL 8"-48" LIGHT BROWN SILTY, SANDY LOAM W/ TRACE GRAVEL & SOME LARGE ROCKS 48"-76" DARK BROWN SILTY, SANDY LOAM NO MOTTLING NO GROUNDWATER, NO BEDROCK	0"-12" TOPSOIL 12"-64" LIGHT BROWN SANDY, CLAY LOAM W/ GRAVEL & SOME LARGE ROCKS NO MOTTLING NO GROUNDWATER, NO BEDROCK	PT1: 4 MIN. DEPTH: 24" PT2: 5 MIN. DEPTH: 24"	ELIEN SEPTIC DESIGNED FOR: 4 BEDROOM MAXIMUM (Q = 475 GAL/DAY) REQUIRED: 88 L.F. TOTAL DESIGNED: 2 LATERALS @ 36", 72 L.F. TOTAL SEPTIC TANK SIZE: 1,250 GALLONS	<u>SOIL TESTING AND SEPTIC SYSTEM DESIGN NOTES:</u> 1. PERCOLATION TESTS WERE PERFORMED BY PIETRZAK & PFAU, PLLC ON 6/26/15, 6/30/15, 7/2/15, 7/7/15, 7/11/16, 7/12/16. 2. PERCOLATION TESTS WERE PERFORMED AT A DEPTH OF 24" UNLESS NOTED OTHERWISE. 3. DEEP TEST PITS WERE PERFORMED BY PIETRZAK & PFAU, PLLC ON 8/14/15, 7/21/16. 4. SEPTIC SYSTEM DESIGN BASED ON 110 GALLONS PER BEDROOM PER DAY. 5. SEPTIC SYSTEM DESIGN FOR 4 BEDROOM MAXIMUM DWELLING UNLESS NOTED OTHERWISE. 6. ALL SEPTIC SYSTEM DESIGNS INCLUDE 35 GALLONS PER DAY OF BACKWASH FOR THE OPTIONAL WATER SOFTENER, MAKING A TOTAL DISCHARGE OF 475 GALLONS PER DAY. 7. SURFACE WATER DIVERSION SWALES ARE REQUIRED ON ALL LOTS. 8. SEPTIC SYEM DESIGNS ARE BASED ON THE SLOWEST PERCOLATION RATE FOUND WITHIN THE AREA OF THE SYSTEM				
14	0"-6" TOPSOIL 6"-66" LIGHT BROWN SILTY, SANDY LOAM W/ GRAVEL & SOME LARGE ROCKS NO MOTTLING NO GROUNDWATER, NO BEDROCK	0"-6" TOPSOIL 6"-50" LIGHT BROWN SILTY LOAM W/ HARD CLAY POCKETS @ 50" HIT BOULDER NO MOTTLING NO GROUNDWATER, NO BEDROCK	PT1: 2 MIN. DEPTH: 24" PT2: 4 MIN. DEPTH: 24"	ELIEN SEPTIC DESIGNED FOR: 4 BEDROOM MAXIMUM (Q = 475 GAL/DAY) REQUIRED: 66 L.F. TOTAL DESIGNED: 2 LATERALS @ 36", 72 L.F. TOTAL SEPTIC TANK SIZE: 1,250 GALLONS					
15	0"-12" TOPSOIL 12"-72" LIGHT BROWN SILTY, SANDY LOAM W/ GRAVEL NO MOTTLING NO GROUNDWATER, NO BEDROCK	0"-10" TOPSOIL 10"-62" LIGHT BROWN SILTY, SANDY LOAM W/ GRAVEL AND SOME LARGE ROCKS NO MOTTLING NO GROUNDWATER, NO BEDROCK	PT1: 15 MIN. DEPTH: 24" PT2: 18 MIN. DEPTH: 24"	ELIEN SEPTIC DESIGNED FOR: 4 BEDROOM MAXIMUM (Q = 475 GAL/DAY) REQUIRED: 113 L.F. TOTAL DESIGNED: 4 LATERALS @ 32", 128 L.F. TOTAL SEPTIC TANK SIZE: 1,250 GALLONS					
16	0"-8" TOPSOIL 8"-36" LIGHT BROWN SILTY LOAM W/ GRAVEL 36"-64" DARK BROWN CLAY LOAM MOTTLING @ 42" NO GROUNDWATER, NO BEDROCK	0"-8" TOPSOIL 8"-40" LIGHT BROWN SILTY, SANDY LOAM W/ GRAVEL & SOME LARGE ROCKS 40"-60" DARK BROWN CLAY LOAM NO MOTTLING NO GROUNDWATER, NO BEDROCK	PT1: 9 MIN. DEPTH: 24" PT2: 8 MIN. DEPTH: 24"	ELIEN SEPTIC DESIGNED FOR: 4 BEDROOM MAXIMUM (Q = 475 GAL/DAY) REQUIRED: 88 L.F. TOTAL DESIGNED: 4 LATERALS @ 24", 96 L.F. TOTAL SEPTIC TANK SIZE: 1,250 GALLONS					
17	0"-10" TOPSOIL 10"-62" LIGHT BROWN SILTY LOAM W/ GRAVEL & HARD CLAY POCKETS NO MOTTLING NO GROUNDWATER, NO BEDROCK	0"-8" TOPSOIL 8"-32" LIGHT BROWN SILTY LOAM W/ GRAVEL 32"-68" DARK BROWN CLAY LOAM MOTTLING @ 34" NO GROUNDWATER, NO BEDROCK	PT1: 15 MIN. DEPTH: 24" PT2: 9 MIN. DEPTH: 24"	ELIEN SEPTIC DESIGNED FOR: 4 BEDROOM MAXIMUM (Q = 475 GAL/DAY) REQUIRED: 99 L.F. TOTAL DESIGNED: 2 LATERALS @ 56", 112 L.F. TOTAL SEPTIC TANK SIZE: 1,250 GALLONS					
18	0"-8" TOPSOIL 8"-52" LIGHT BROWN SILTY CLAY LOAM W/ GRAVEL AND SOME LARGE ROCKS NO MOTTLING NO GROUNDWATER, NO BEDROCK	0"-8" TOPSOIL 8"-50" LIGHT BROWN SILTY, CLAY LOAM W/ GRAVEL AND SOME LARGE ROCKS MOTTLING @ 26" NO GROUNDWATER, NO BEDROCK	PT1: 8 MIN. DEPTH: 12" PT2: 9 MIN. DEPTH: 12"	ELIEN SEPTIC DESIGNED FOR: 4 BEDROOM MAXIMUM (Q = 475 GAL/DAY) REQUIRED: 88 L.F. TOTAL DESIGNED: 3 LATERALS @ 24", 96 L.F. TOTAL SEPTIC TANK SIZE: 1,250 GALLONS					
19	0"-6" TOPSOIL 6"-72" LIGHT BROWN HARD PACKED CLAY W/ SOME LARGE ROCKS MOTTLING @ 30" NO GROUNDWATER, NO BEDROCK	0"-8" TOPSOIL 8"-72" LIGHT BROWN HARD PACKED CLAY W/ GRAVEL & SOME LARGE ROCKS MOTTLING @ 28" NO GROUNDWATER, NO BEDROCK	PT1: 42 MIN. DEPTH: 24" PT2: 36 MIN. DEPTH: 24"	ELIEN SEPTIC DESIGNED FOR: 4 BEDROOM MAXIMUM (Q = 475 GAL/DAY) REQUIRED: 158 L.F. TOTAL DESIGNED: 8 LATERALS @ 20", 160 L.F. TOTAL SEPTIC TANK SIZE: 1,250 GALLONS					

ORANGE COUNTY DEPARTMENT OF HEALTH REALTY SUBDIVISION NOTE

2. NO LOT IS TO BE FURTHER SUBDIVIDED WITHOUT ORANGE COUNTY DEPARTMENT OF HEALTH REVIEW AND APPROVAL.
3. THE DESIGN AND LOCATION OF SANITARY FACILITIES (WATER AND SEWER SYSTEMS) SHALL NOT BE CHANGED WITHOUT THE WRITTEN APPROVAL OF THE COUNTY DEPARTMENT OF HEALTH.
4. TRENCHES SHALL NOT BE INSTALLED IN WET SOIL. THE SIDES AND BOTTOM OF TRENCHES MUST BE RAKED, IMMEDIATELY PRIOR TO PLACING SAND. THE ENDS OF THE LATERALS MUST BE CAPPED.
5. NO NEW LATERALS OR TRENCHES SHALL BE INSTALLED IN THE ABSORPTION FIELDS, IN THE AREA OF THE ABSORPTION FIELDS.
6. HEAVY EQUIPMENT SHALL BE KEPT OFF THE AREAS OF THE ABSORPTION FIELDS EXCEPT DURING THE ACTUAL CONSTRUCTION. THERE SHALL BE NO UNNECESSARY MOVEMENT OF CONSTRUCTION EQUIPMENT IN THE ABSORPTION FIELD AREA BEFORE, DURING, OR AFTER CONSTRUCTION. EXTREME CARE MUST BE TAKEN DURING THE ACTUAL CONSTRUCTION SO AS TO AVOID AN OVERWATERING CONDITION THAT COULD RESULT IN A CHANGE OF THE ABSORPTION CAPACITY OF THE SOIL ON WHICH THE DESIGN WAS BASED.
7. NO SWIMMING POOLS, DRIVEWAYS, OR STRUCTURES THAT MAY COMPACT THE SOIL SHALL BE LOCATED OVER ANY PORTION OF THE ABSORPTION FIELDS.
8. THESE SYSTEMS WERE NOT DESIGNED TO ACCOMMODATE GARBAGE GRINDERS, JACUZZI TYPE SPA TUBS OVER 100 GALLONS, OR WATER CONDITIONERS (UNLESS SPECIFIED IN THE DESIGN CHART). AS SUCH, THESE ITEMS SHALL NOT BE INSTALLED UNLESS THE SYSTEM IS REDESIGNED TO ACCOMMODATE THEM AND REAPPROVED BY THE ORANGE COUNTY HEALTH DEPARTMENT.
9. THERE MUST BE AN UNINTERRUPTED POSITIVE SLOPE FROM THE SEPTIC TANK (OR ANY PUMPING OR DOSING CHAMBER) TO THE HOUSE, ALLOWING SEPTIC GASSES TO DISCHARGE THROUGH THE STACK VENT.
10. THE HOUSE LOT SHOWN ON THE LOTS PROVIDED WITH THE APPROVED PLANS AND AN ACCURATE AS-BUILT DRAWING OF ANY EXISTING SANITARY FACILITIES, INCLUDING NYSDEC WELL COMPLETION REPORT. THE PURCHASER SHALL ALSO BE ADVISED OF ANY ROUTINE OR SPECIAL MAINTENANCE PROCEDURES THAT MAY BE NECESSARY (REFER TO CHAPTER 12 OF THE NYS DECISIONS DETERMINED DURING ROUTING OF THE NYS DECISIONS (MAINTENANCE ITEMS)).
11. SEPTIC TANKS SHOULD BE INSPECTED PERIODICALLY AND PUMPED EVERY 2-3 YEARS.
12. PUMP STATIONS/DOSING CHAMBERS SHOULD BE INSPECTED PERIODICALLY BY A PROPERLY TRAINED PERSON FOR PROPER OPERATION, INCLUDING HIGH WATER ALARMS, VENTING AND ANY PHYSICAL DAMAGE.
13. DISTRIBUTION BOXES/DROP BOXES SHOULD BE INSPECTED PERIODICALLY TO ASSURE THAT THEY ARE LEVEL AND OPERATING PROPERLY.
14. INDIVIDUAL WELLS AND SEWAGE DISPOSAL SYSTEMS SHALL NO LONGER BE CONSTRUCTED OR USED FOR HOUSEHOLD DOMESTIC WASTE. PUBLIC SANITARY FACILITIES BECOME AVAILABLE. CONNECTION TO THE PUBLIC SEWER SYSTEM IS REQUIRED WITHIN ONE YEAR OF AVAILABILITY.
15. ORANGE COUNTY DEPARTMENT OF HEALTH PLAN APPROVAL IS LIMITED TO 5 YEARS. TIME EXTENSIONS FOR PLAN APPROVAL MUST BE REQUESTED IN WRITING TO THE COUNTY DEPARTMENT OF HEALTH. THE NYS DECISIONS AND THE REALTY SUBDIVISION REGULATIONS IN EFFECT AT THAT TIME. A NEW PLAN SUBMISSION MAY BE REQUIRED TO OBTAIN A TIME EXTENSION.
16. THE APPROVED PLANS MUST BE FILED WITH THE ORANGE COUNTY CLERK'S OFFICE PRIOR TO OFFERING LOTS FOR SALE AND WITHIN 90 DAYS OF THE LAST APPROVAL OF FINAL PLANS.
17. A NEW YORK STATE LICENSED PROFESSIONAL ENGINEER (OR OTHER DESIGN PROFESSIONAL AS ALLOWED BY THE NYS EDUCATION DEPARTMENT) SHALL INSPECT THE SANITARY FACILITIES (WATER SUPPLY, ANY WATER TREATMENT, AND SEWAGE DISPOSAL FACILITIES) AND THE DISTRIBUTION SYSTEM TO ACCOMMODATE THE OWNER. THE ENGINEER SHALL CERTIFY TO THE ORANGE COUNTY DEPARTMENT OF HEALTH AND THE LOCAL CODE ENFORCEMENT OFFICE THAT THE FACILITIES HAVE BEEN INSTALLED IN ACCORDANCE WITH THE APPROVED PLANS AND THAT ANY SEPTIC TANK JOINTS HAVE BEEN SEALED AND TESTED FOR WATER TIGHTNESS. A COPY OF THE NYSDEC WELL COMPLETION REPORT MUST ALSO BE PROVIDED.
18. SEPTIC TANKS MUST CONFORM TO THE MINIMUM REQUIREMENTS OF THE NYS HEALTH DEPARTMENT STANDARDS/CODES FOR INDIVIDUAL DISPOSAL SYSTEMS, APPENDIX 75-A, AND THE AUTHORITY HAVING JURISDICTION.
19. LAUNDRY WASTE IS TO BE DISCHARGED INTO THE SEPTIC SYSTEM.
20. TO BE PROVIDED. BONDS ARE TO BE PROVIDED BUT WHERE REQUIRED AN ADDITIONAL CLEANOUT SHALL BE INSTALLED.
21. THE MAXIMUM LENGTH OF ABSORPTION LINES USED IN CONJUNCTION WITH GRAVITY DISTRIBUTION SHALL BE 60 FEET.
22. FLOOR DRAINS ARE NOT TO DISCHARGE INTO THE SEPTIC SYSTEM. FOOTING DRAINS ARE TO RUN TO DAYLIGHT WITH RODENT SCREEN.

GENERAL NOTES - WATER SYSTEMS

1. WELL CONSTRUCTION SHALL CONFORM TO THE MINIMUM REQUIREMENTS OF THE N.Y.S. HEALTH DEPARTMENT STANDARDS.
2. TREATMENT FOR HARDNESS SHOULD BE CONSIDERED ONLY IF EXCESSIVE HARDNESS IS FOUND (GREATER THAN 150 MG/L) IF EACH INDIVIDUAL WELL.
3. SEPTIC FIELDS AND WELLS ARE NOT TO BE RELOCATED.
4. FOOTING DRAINS WITHIN 25 FEET OF A WELL MUST BE WATERTIGHT.
5. WELLS SHALL BE INSTALLED 100 FEET FROM ANY SEPTIC SYSTEM, AND 200 FEET FROM SEPTIC SYSTEMS WHICH ARE UPHILL FROM THE WELL.
6. WELL CASING IS TO BE INSTALLED 10 FEET INTO IMPERVIOUS BEDROCK.
7. A NEW YORK STATE LICENSED PROFESSIONAL ENGINEER (OR OTHER DESIGN PROFESSIONAL AS ALLOWED BY THE NYS DEPARTMENT OF SEPTIC SYSTEMS) SHALL DESIGN THE SEPTIC SYSTEM, ANY WATER TREATMENT, AND SEWAGE DISPOSAL FACILITIES AT THE TIME OF CONSTRUCTION. PRIOR TO OCCUPANCY OF THE DWELLING, THE ENGINEER SHALL CERTIFY TO THE ORANGE COUNTY DEPARTMENT OF HEALTH AND THE LOCAL CODE ENFORCEMENT OFFICER THAT THE FACILITIES HAVE BEEN DESIGNED TO ACHIEVE ADEQUATE PROTECTION OF THE UNDERLYING GROUNDWATER. JOINTS SHALL BE SEALED AND TESTED FOR WATER TIGHTNESS. A COPY OF THE NYSDAP WELL COMPLETION REPORT MUST ALSO BE PROVIDED.

11-11-22	FINAL REVIEW BASED ON PUBLIC HEARING COMMENTS	J
1-9-19	SDS/WETLAND SEPARATIONS, ADDED BUFFERS	J
2-28-18	PER PB COMMENTS AND SWPPP PREPARATION	M
10-28-16	PRELIMINARY DESIGN OF REVISED LAYOUT	M
3-31-16	REVISED CLUSTER LAYOUT PER HIGHWAY COMMENT	N
6-19-15	REVISED PER PB COMMENTS	J
9-4-14	REVISED ENTRANCE	J
6-16-14	ORIGINAL PREPARATION DATE	J

REVISIONS	
MAP CHECK DATE: 00/00/00	INITIALED BY: --

RESERVED FOR TOWN OF CHESTER PLANNING BOARD APPROVAL

PIETRZAK & PFAU
ENGINEERING & SURVEYING

262 GREENWICH AVENUE, SUITE A
GOSHEN, NEW YORK 10924
(845) 294-0606

2 HAMILTON AVENUE
MONTICELLO, NEW YORK 127
(845) 796-4646

JOSEPH J. PFAU P.E.  **MICHAEL P. CREEGAN P.**
LICENSE NO. 068945 LICENSE NO. 050323

VINCENT A. PIETRZAK P.E., P.L.S., LEED®AP
P.E. LICENSE NO. 076936 P.L.S. LICENSE NO. 050075
N.I.P.L.S. LICENSE NO. 35396

SIGNATURE _____ DATE _____

BARODA CLUSTER
SUBDIVISION

TOWN OF CHESTER
COUNTY OF ORANGE, NEW YORK

PROJECT TITLE

**SANITARY & WATER
SUPPLY DETAILS (1)**
SECTION 12, BLOCK 1, LOT 31

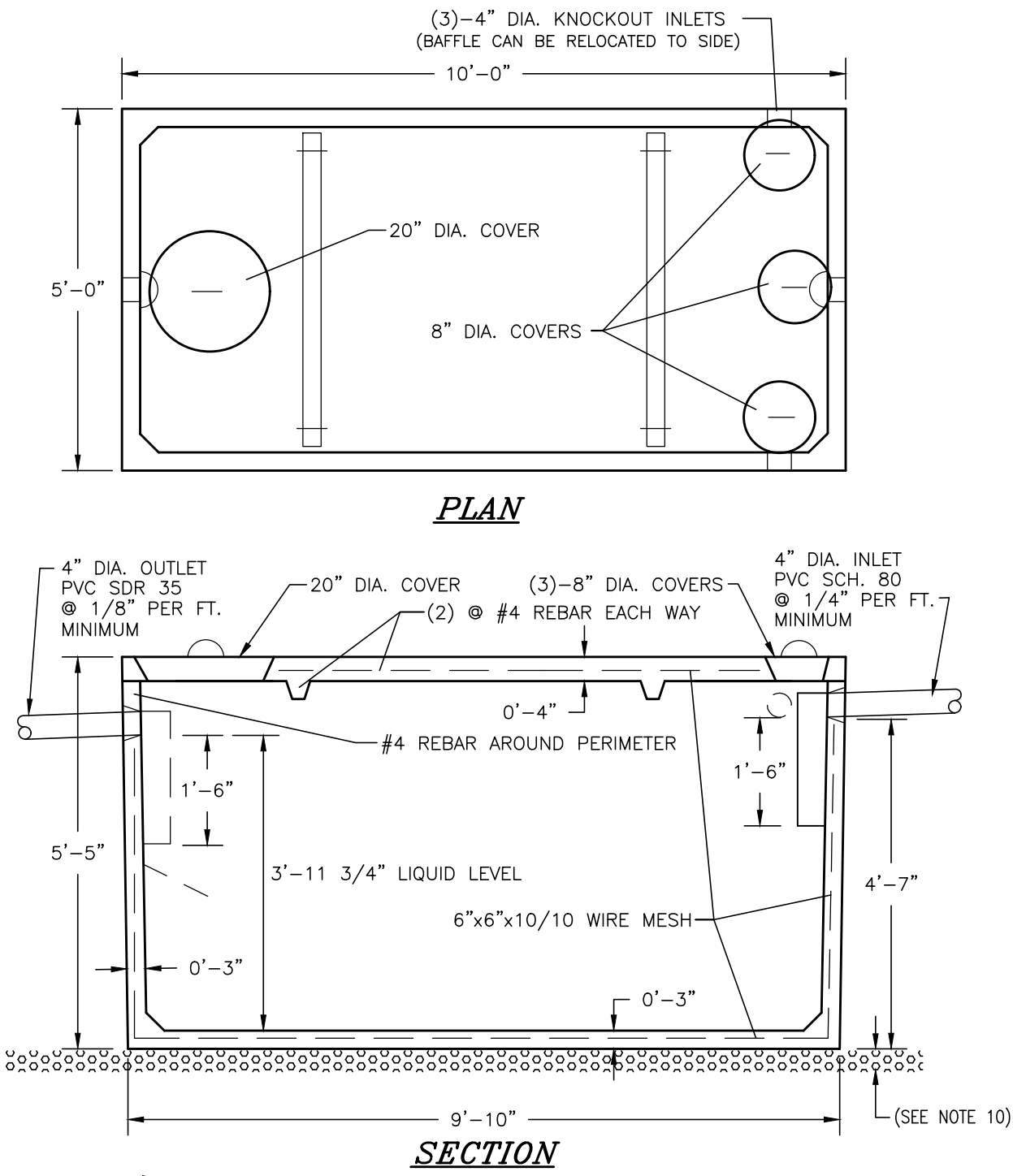
DRAWING TITLE

UNAUTHORIZED ALTERATION OR ADDITION TO A PLAN BEARING A LICENSEE
LAND SURVEYOR'S OR PROFESSIONAL ENGINEER'S SEAL IS A VIOLATION
OF SECTION 2209, SUB-DIVISION 2 OF THE N.Y. STATE EDUCATION LAW.

O.C.H.D. SHEET NO.	D.E.C. SHEET NO.	DRAWING NAME
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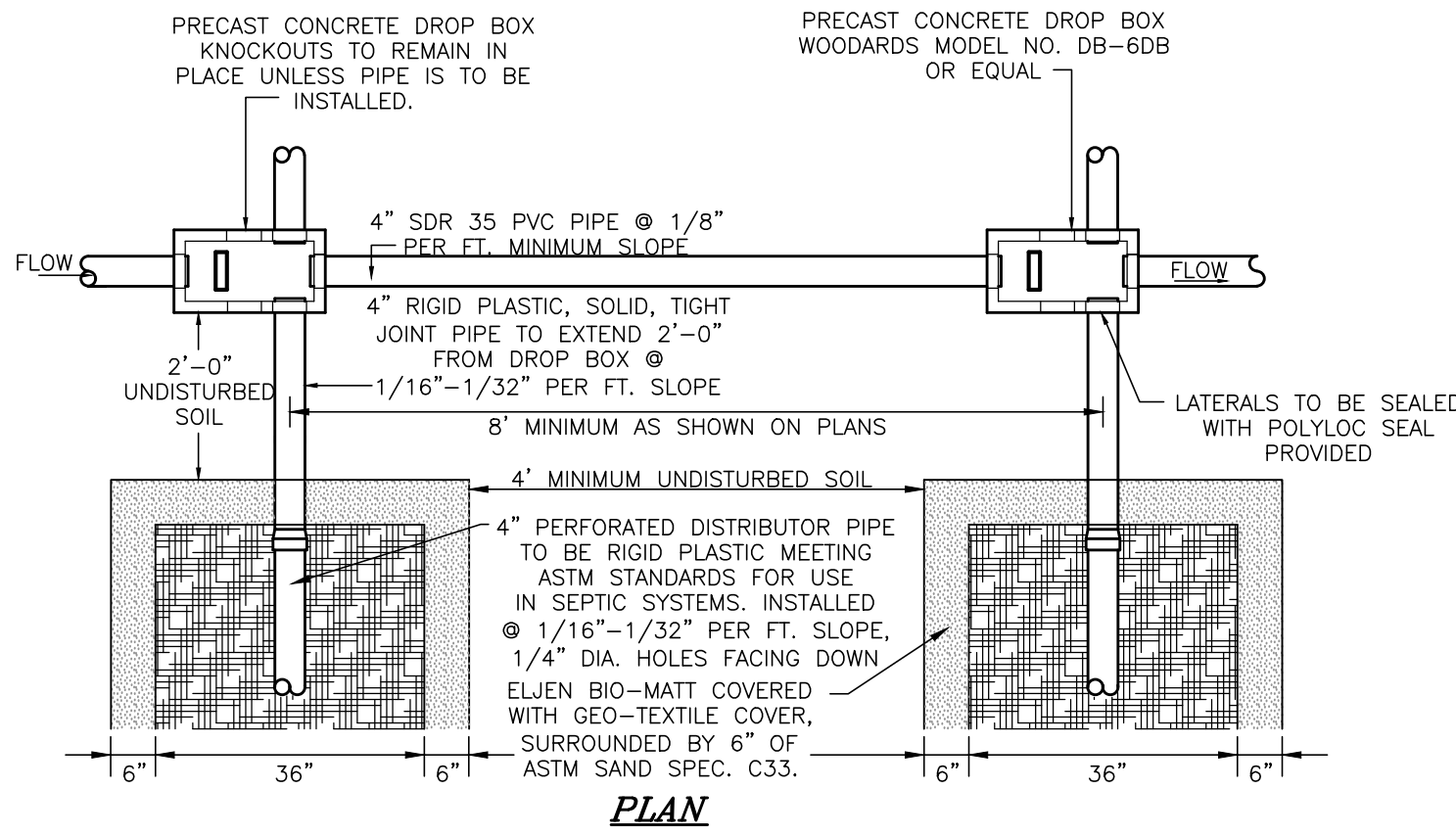
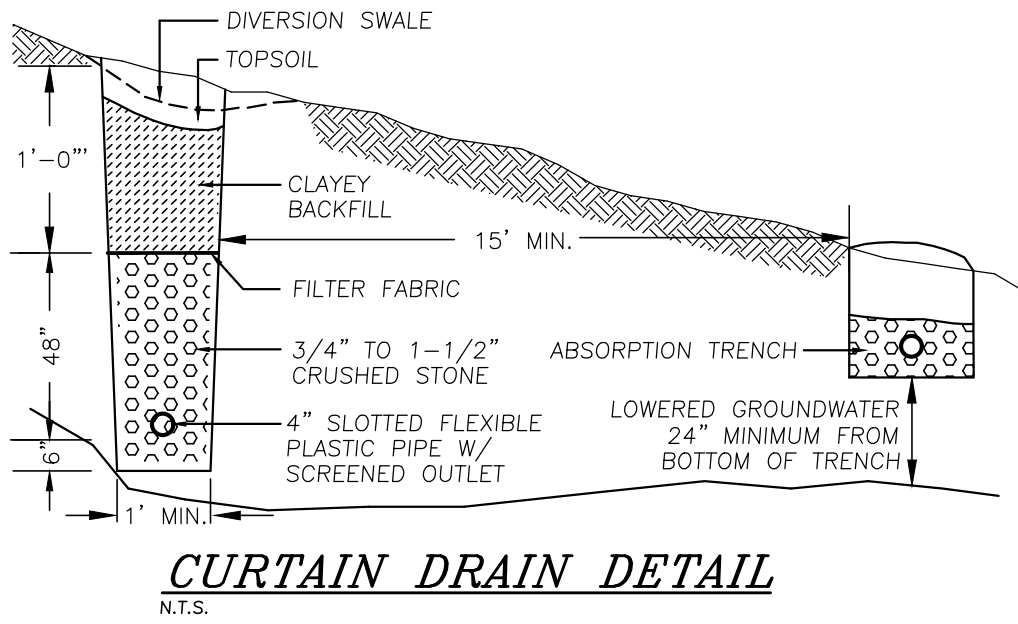
6 of 7 | N/A of N/A | 15 of 1

THIS SHEET IS INCOMPLETE AND INVALID WITHOUT EACH AND EVERY OTHER SHEET LISTED IN THE TITLE BOX UNDER THE HEADING O.C.H.D. SHEET NO. 6 OF 7.



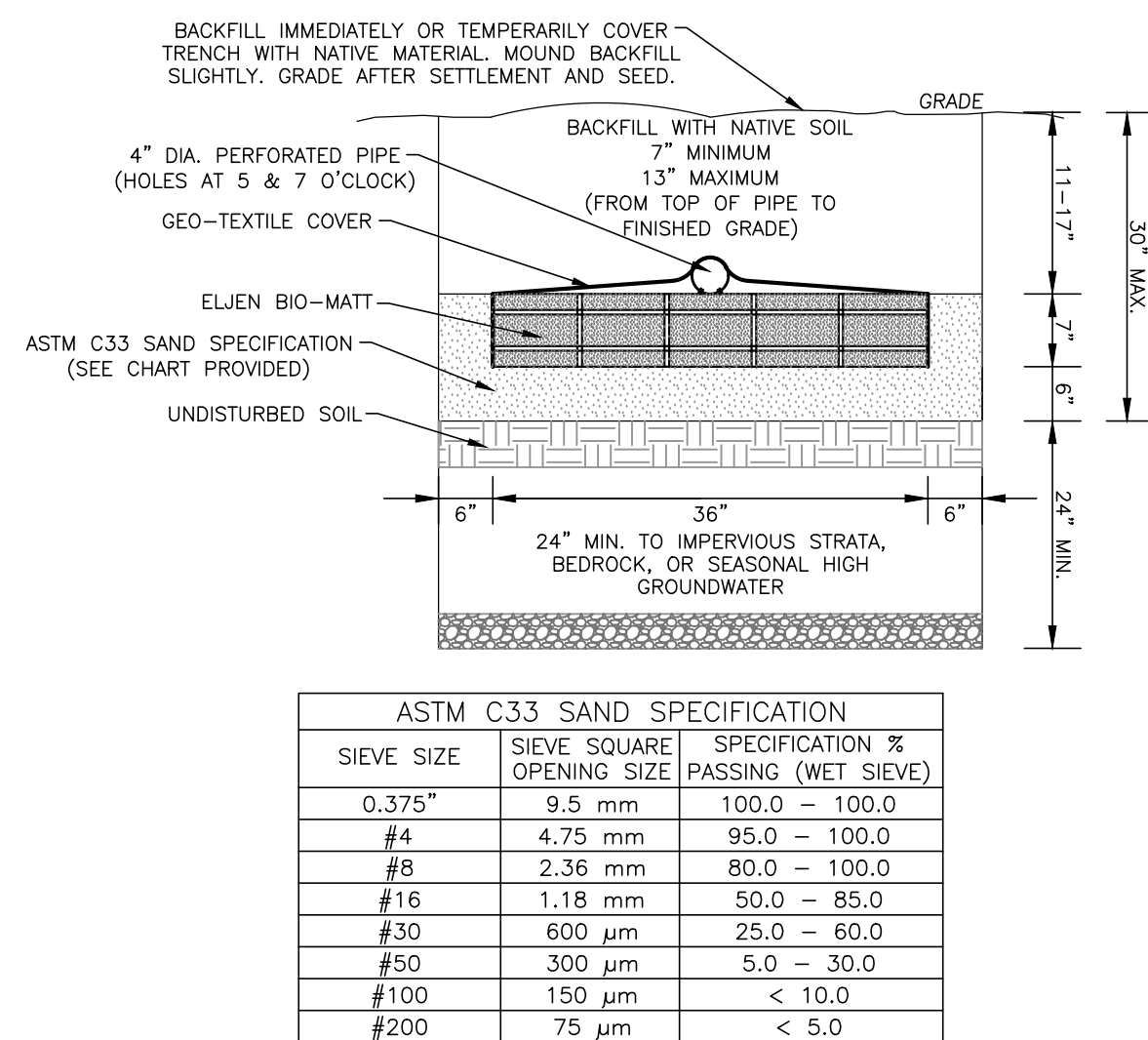
- NOTES:**
- BUILDING SEWER TO BE SCHEDULE 80 PVC.
 - SEPTIC TANK TO BE INSTALLED A MINIMUM OF TEN (10) FEET FROM BUILDING FOUNDATION.
 - LOCATION STAKE TO BE SET IN GROUND DIRECTLY ABOVE THE INLET END COVER.
 - SEPTIC TANK TO BE COVERED WITH EARTH TO A MINIMUM DEPTH OF 6" AND A MAXIMUM DEPTH OF 12".
 - PRECAST CONCRETE TO REACH 4000 PSI STRENGTH @ 28 DAYS. TANK CONSTRUCTION JOINTS TO BE SEALED WITH BUTYL RUBBER BASE CEMENT.
 - INLET INVERT TO BE 3" HIGHER THAN OUTLET INVERT.
 - INLET AND OUTLET JOINTS TO BE SEALED WITH PORTLAND CEMENT GROUT.
 - PRECAST CONCRETE SEPTIC TANK TO BE AS MANUFACTURED BY WOODARD'S CONCRETE PRODUCTS, INC. MODEL ST1250 OR EQUAL.
 - 3" MINIMUM OF SAND, PEA GRAVEL OR TRENCH AGGREGATE FOR BEDDING.
 - SEPTIC TANKS SHOULD BE INSPECTED PERIODICALLY AND PUMPED EVERY 2-3 YEARS.

1.250 GALLON SEPTIC TANK DETAIL
N.T.S.

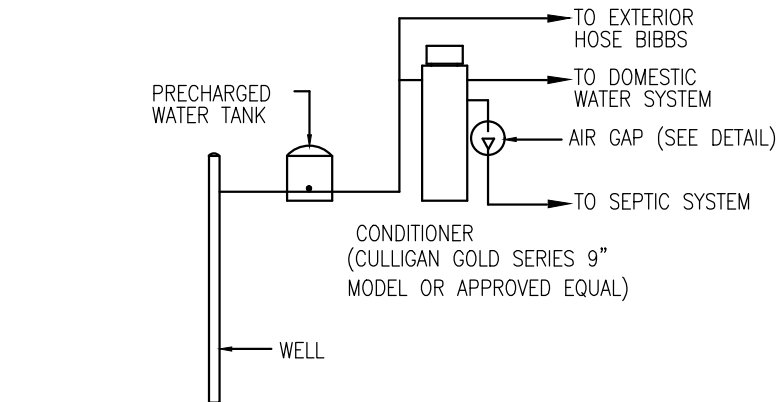
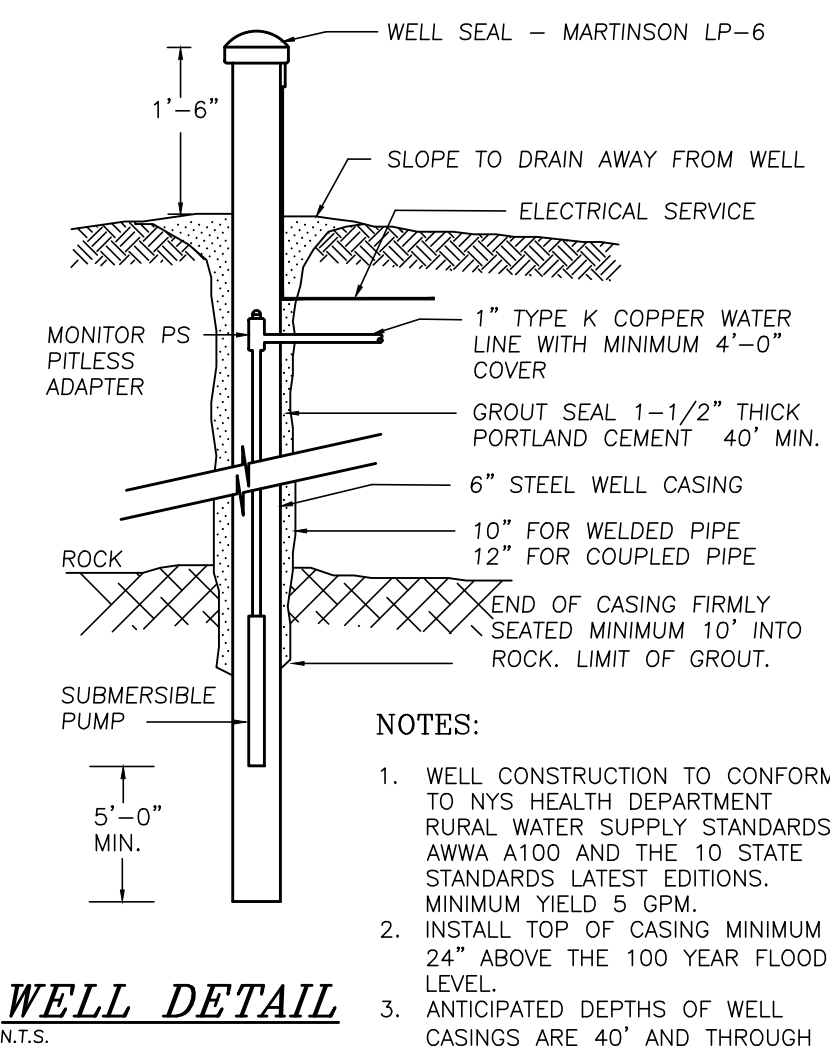
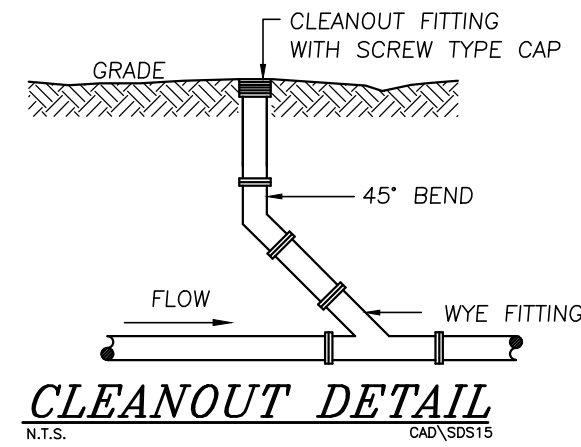
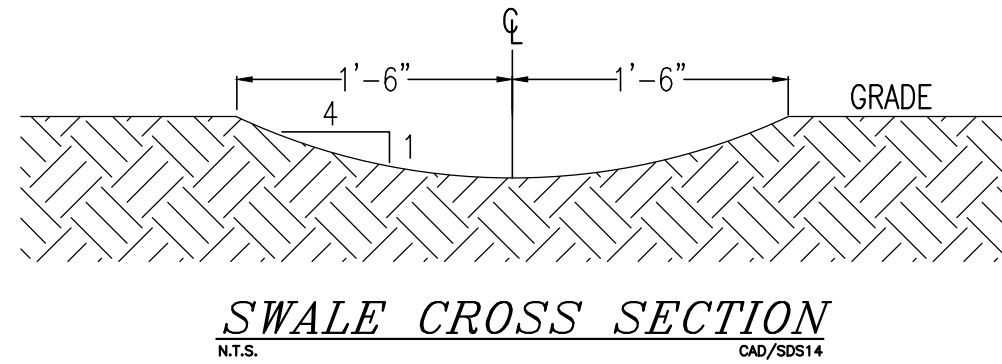


- NOTES:**
- ABSORPTION FIELDS SHALL NOT BE BUILT UNDER DRIVEWAYS, PARTS OF BUILDINGS, OR UNDER ABOVE GROUND POOLS, OR OTHER AREAS SUBJECT TO HEAVY LOADINGS.
 - THE SAND BEDDING SHALL BE COVERED WITH THE GEOTEXTILE FABRIC PROVIDED WITH EACH UNIT.
 - TRENCHES SHALL NOT BE CONSTRUCTED IN WET SOIL.
 - SIDES AND BOTTOM OF TRENCH SHALL BE RAKED IMMEDIATELY PRIOR TO PLACING SAND.
 - THE END OF ALL DISTRIBUTOR PIPES SHALL BE PLUGGED.
 - HEAVY EQUIPMENT SHALL BE KEPT OFF THE AREA OF THE FIELD EXCEPT FOR ACTUAL CONSTRUCTION OF THE FIELD. THERE SHALL BE NO UNNECESSARY MOVEMENT OF CONSTRUCTION EQUIPMENT IN THE AREA OF THE PROPOSED FIELD, BEFORE OR AFTER CONSTRUCTION.
 - DISTRIBUTION LATERALS SHALL BE SLOPED AT 1/16"-1/32" PER FOOT.
 - ABSORPTION TRENCH BOTTOM TO BE SET LEVEL.
 - DISTRIBUTION LATERALS ARE TO BE SET WITH PERFORATIONS FACING DOWN.

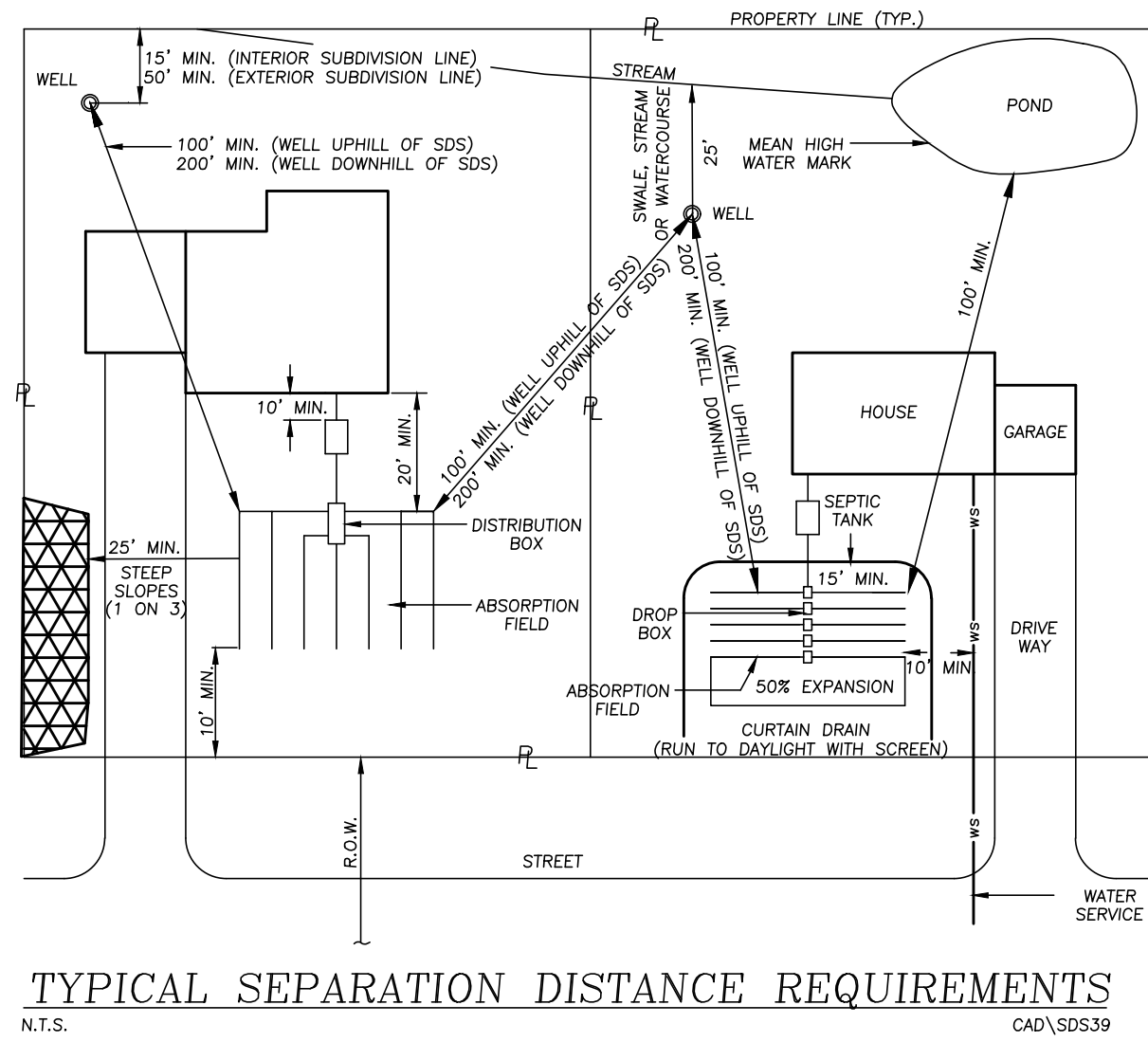
**ELJEN IN-DRAIN SYSTEM
DROP BOX/ABSORPTION TRENCH DETAIL**
N.T.S.



ELJEN IN-DRAIN CROSS SECTION DETAIL
N.T.S.



- NOTES:**
- THE INSTALLATION IS OPTIONAL AND AT THE DISCRETION OF THE HOMEOWNER. INSTALLATION IS ONLY TO BE CONSIDERED IF WELL HARDNESS PROVES TO BE IN EXCESS OF 150 mg/L, IRON LEVELS ARE IN EXCESS OF 0.3 mg/L (MAXIMUM CONTAMINANT LEVEL [MCL]), MANGANESE LEVEL ARE IN EXCESS OF 0.3 mg/L (MCL), OR IRON AND MANGANESE LEVEL ARE IN EXCESS OF 0.5 mg/L (MCL).
 - REMOVING HARDNESS AND/OR IRON & MANGANESE BY ION EXCHANGE INCREASES THE SODIUM CONTENT OF WATER AT A RATE OF 46 mg/L OF SODIUM FOR EACH 100 mg/L (6 GRAINS/GAL) OF HARDNESS REMOVED. IF INSTALLED, IT MUST BE ACCORDING TO THIS APPROVED DESIGN.
 - IF INSTALLED, IT MUST BE ACCORDING TO THIS APPROVED DESIGN.
 - EXISTING CONDITIONS
N/A MG/L (WORST CASE BASED ON WATER SAMPLES COLLECTED)
1 GR./GAL. = 17.1 MG/L
THEREFORE N/A MG/L / 17.1 = N/A GR./GAL.
 - EXCHANGE CAPACITY
EXCHANGE CAPACITY @ SALT DOSAGE/RECHARGE = 19,086 GRAINS @ 4 LB EXISTING CONDITION = N/A GR./GAL
ASSUME ALL LOTS HAVE 4 BEDROOMS.
110 GPD/BEDROOM X 4 BEDROOMS = 440 GPD
=> 440 GPD X N/A GR./GAL. = N/A GRAINS/DAY
=> 19,086 GRAINS / N/A GR./DAY = N/A DAYS ==> SAY 3 DAYS
 - BACKWASH
35 GALLONS PER BACKWASH AS PER CULLIGAN SPECIFICATION
CALCULATE SDS AS 1 WASH PER DAY
ALL LOTS:
35 GAL/DAY IN BACKWASH



TYPICAL SEPARATION DISTANCE REQUIREMENTS
N.T.S.

RESERVED FOR TOWN OF CHESTER PLANNING BOARD APPROVAL

RESERVED FOR HEALTH DEPARTMENT APPROVAL

11-11-22	FINAL REVIEW BASED ON PUBLIC HEARING COMMENTS	JUP
1-9-19	SDS/WETLAND SEPARATIONS, ADDED BUFFERS	JUP
2-28-18	PER PB COMMENTS AND SWPPP PREPARATION	MWS
10-28-16	PRELIMINARY DESIGN OF REVISED LAYOUT	MWS
3-31-16	REVISED CLUSTER LAYOUT PER HIGHWAY COMMENT	NR
6-19-15	REVISED PER PB COMMENTS	MWS
9-4-14	REVISED ENTRANCE	JUP
6-16-14	ORIGINAL PREPARATION DATE	JUP
DATE	DESCRIPTION	INITIALS
REVISIONS		
MAP CHECK DATE:	00/00/00	INITIALED BY: --

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LICENSE NO. 050323
VINCENT A. PIETRZAK P.E., P.L.S., LEAD CAP
P.E. LICENSE NO. 07666, SUB-DIVISION 2 OF THE N.Y. STATE EDUCATION LAW
N.Y.P.L.S. LICENSE NO. 35396

SIGNATURE _____ **DATE** _____

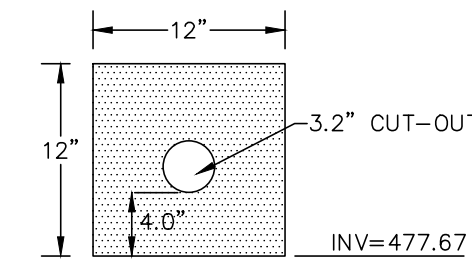
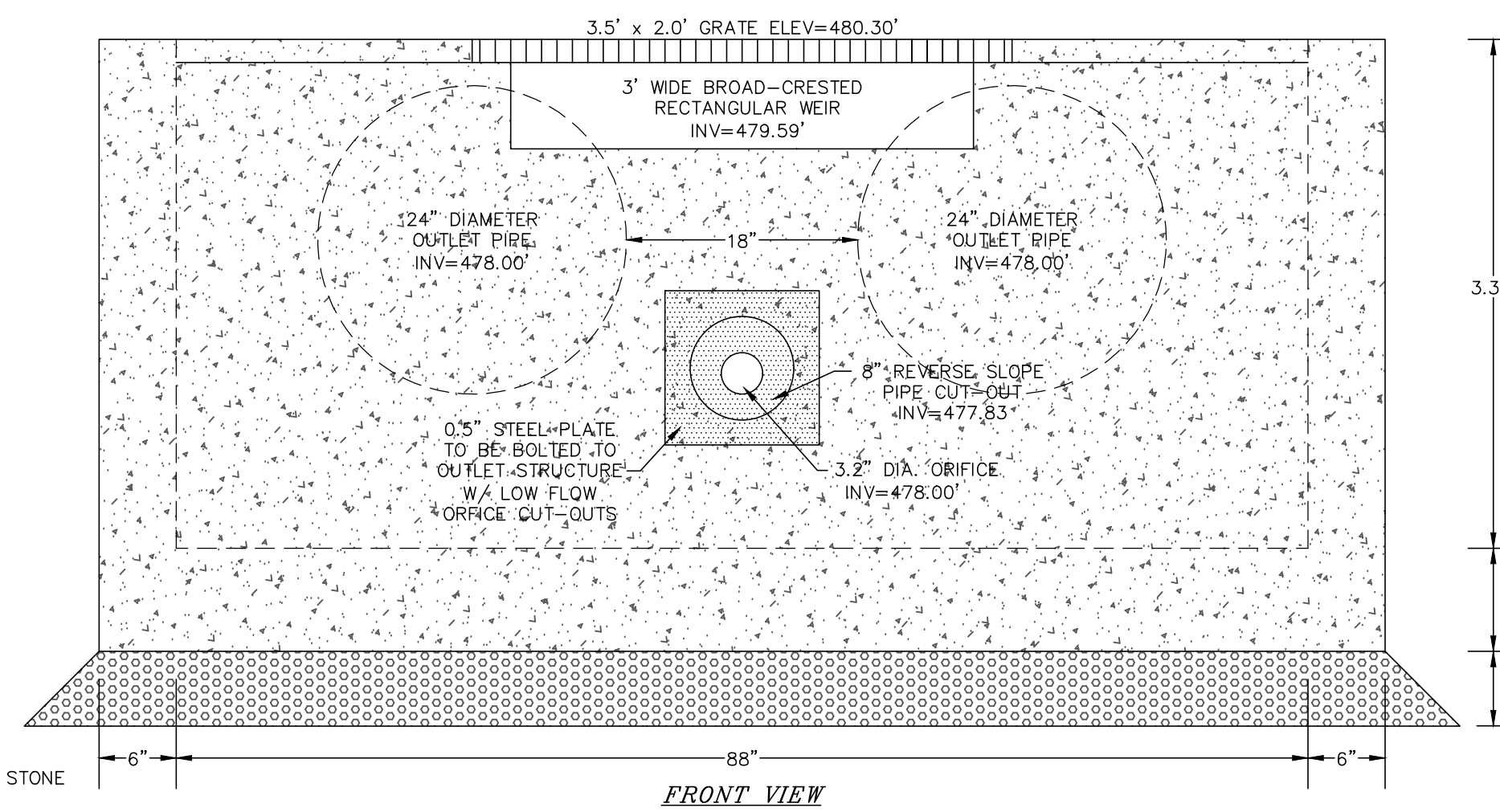
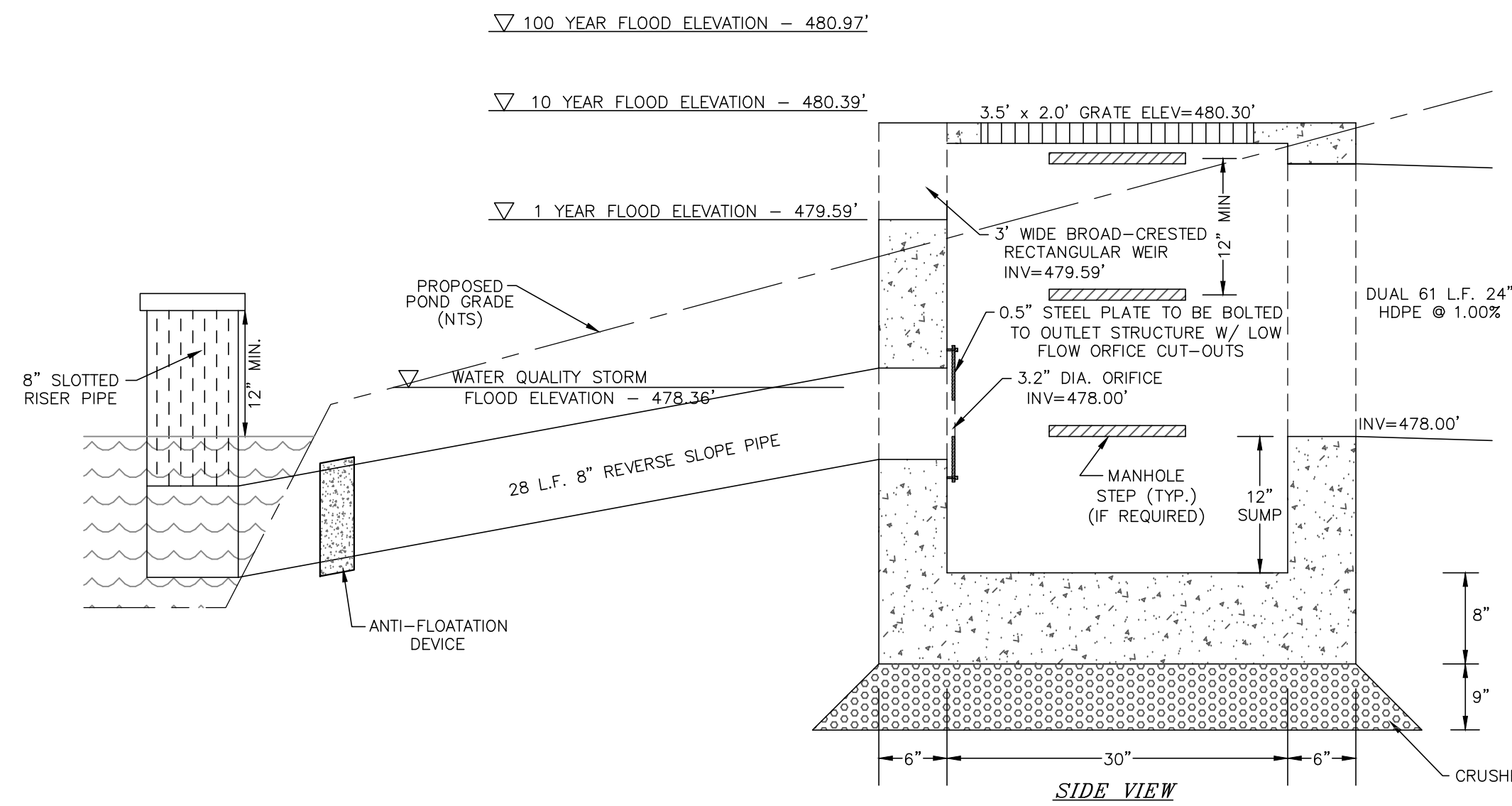
**BARODA CLUSTER
SUBDIVISION**
TOWN OF CHESTER
COUNTY OF ORANGE, NEW YORK

PROJECT TITLE
**SANITARY & WATER
SUPPLY DETAILS (2)**
SECTION 12, BLOCK 1, LOT 31

DRAWING TITLE
UNAUTHORIZED ALTERATION OR ADDITION TO A PLAN BEARING A LICENSED LAND SURVEYOR'S OR PROFESSIONAL ENGINEER'S SEAL IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2 OF THE N.Y. STATE EDUCATION LAW.

O.C.H.D. SHEET NO. 7 OF 7	D.E.C. SHEET NO. N/A OF N/A	DRAWING NUMBER 18 OF 17
SCALE AS SHOWN	CAD REFERENCE WORKING R1	PROJECT NUMBER 14118.01

THIS SHEET IS INCOMPLETE AND INVALID WITHOUT EACH AND EVERY OTHER SHEET LISTED IN THE TITLE BOX UNDER THE HEADING O.C.H.D. SHEET NO. 7 OF 7.



NOTES:
1. STEEL PLATE IS TO BE 0.5\"/>

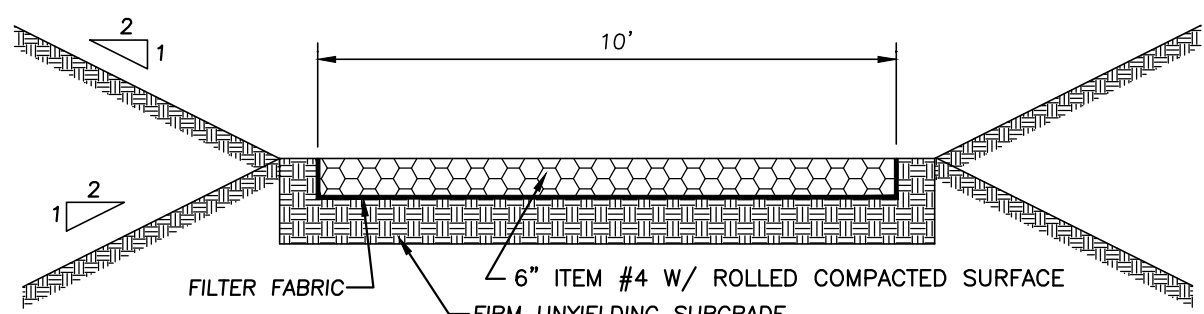
PROPOSED STEEL PLATE W/ LOW FLOW ORIFICE CUTOUT FOR OUTLET STRUCTURE 3P
N.T.S.

PROPOSED OUTLET STRUCTURE 3P DETAIL
N.T.S.

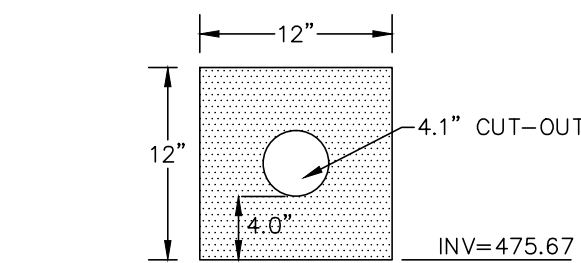
▽ 100 YEAR FLOOD ELEVATION - 480.95'

▽ 10 YEAR FLOOD ELEVATION - 480.42'

▽ 1 YEAR FLOOD ELEVATION - 479.75'

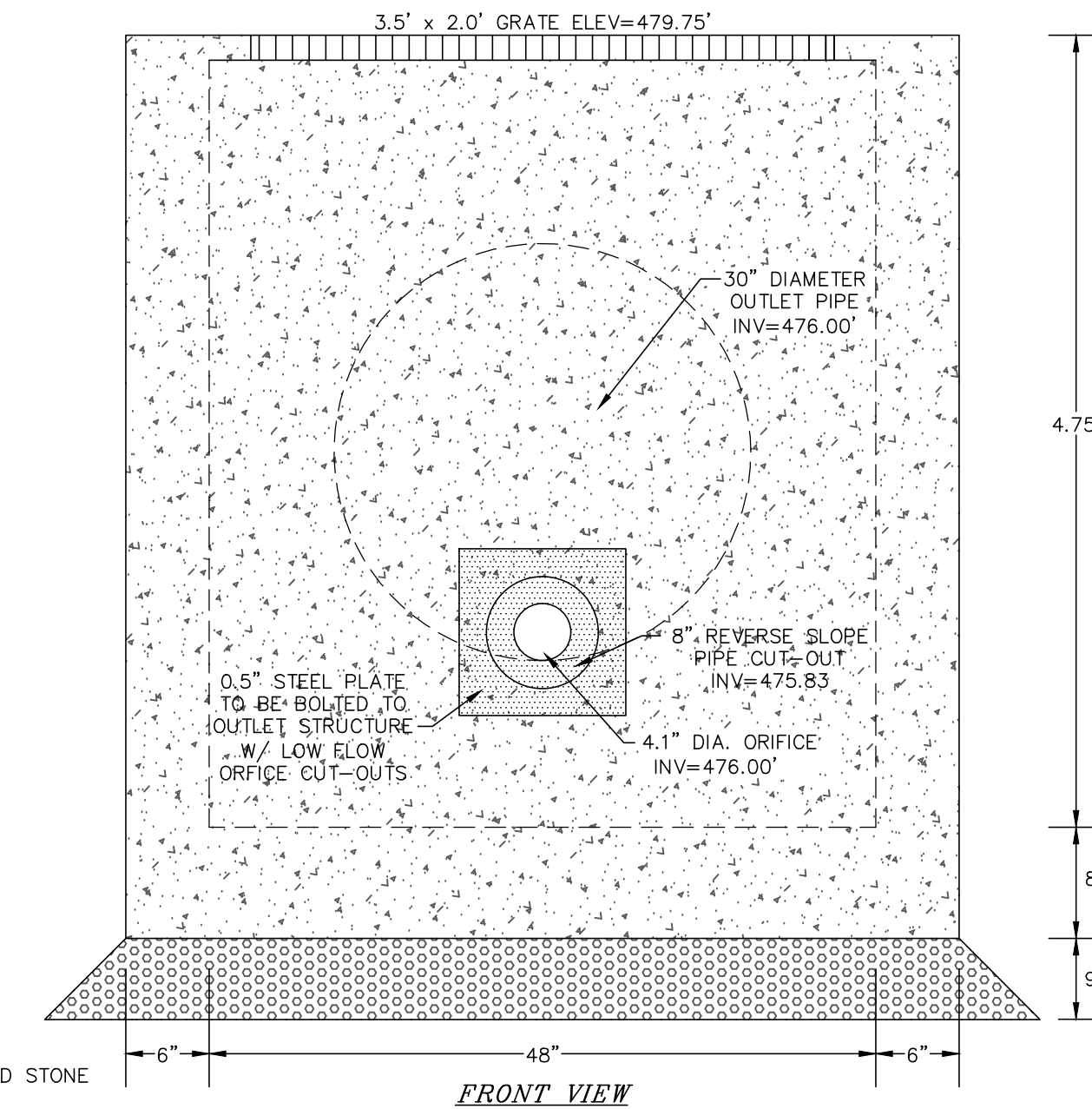
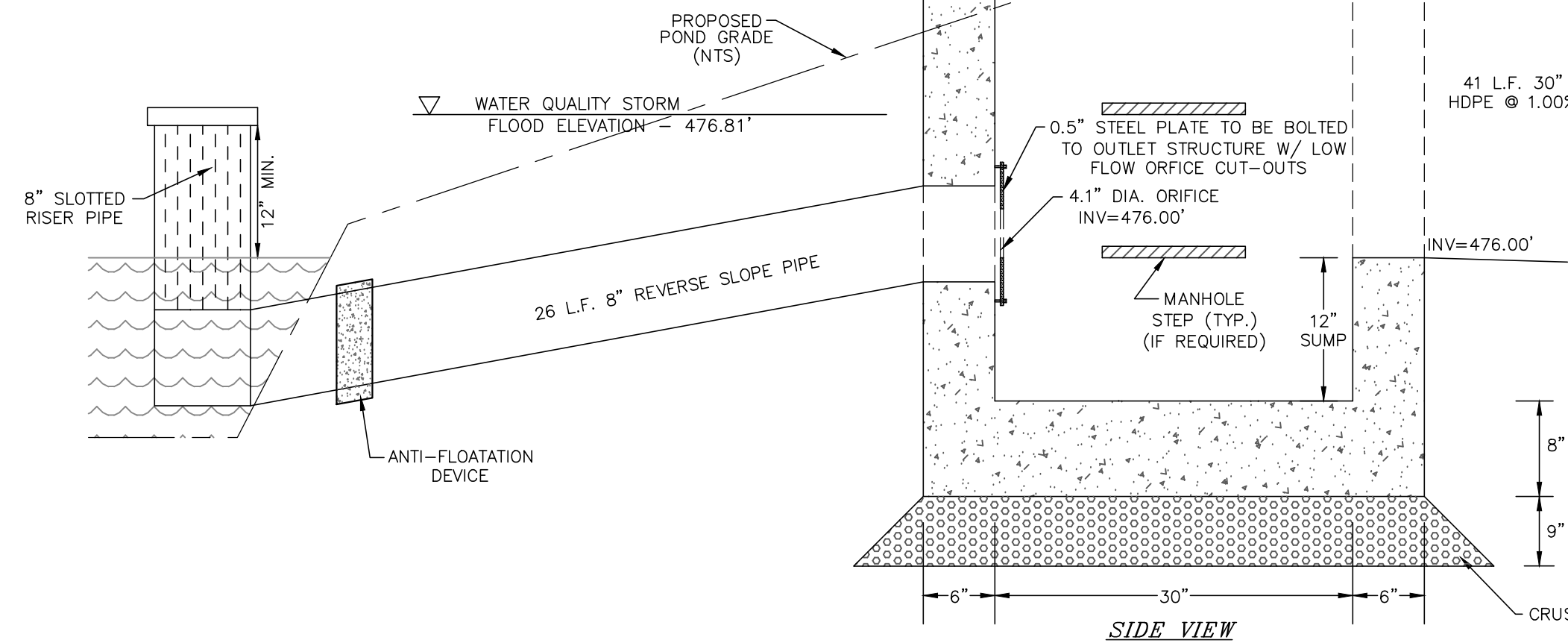


STABILIZED DETENTION POND ACCESS DRIVE DETAIL
N.T.S.

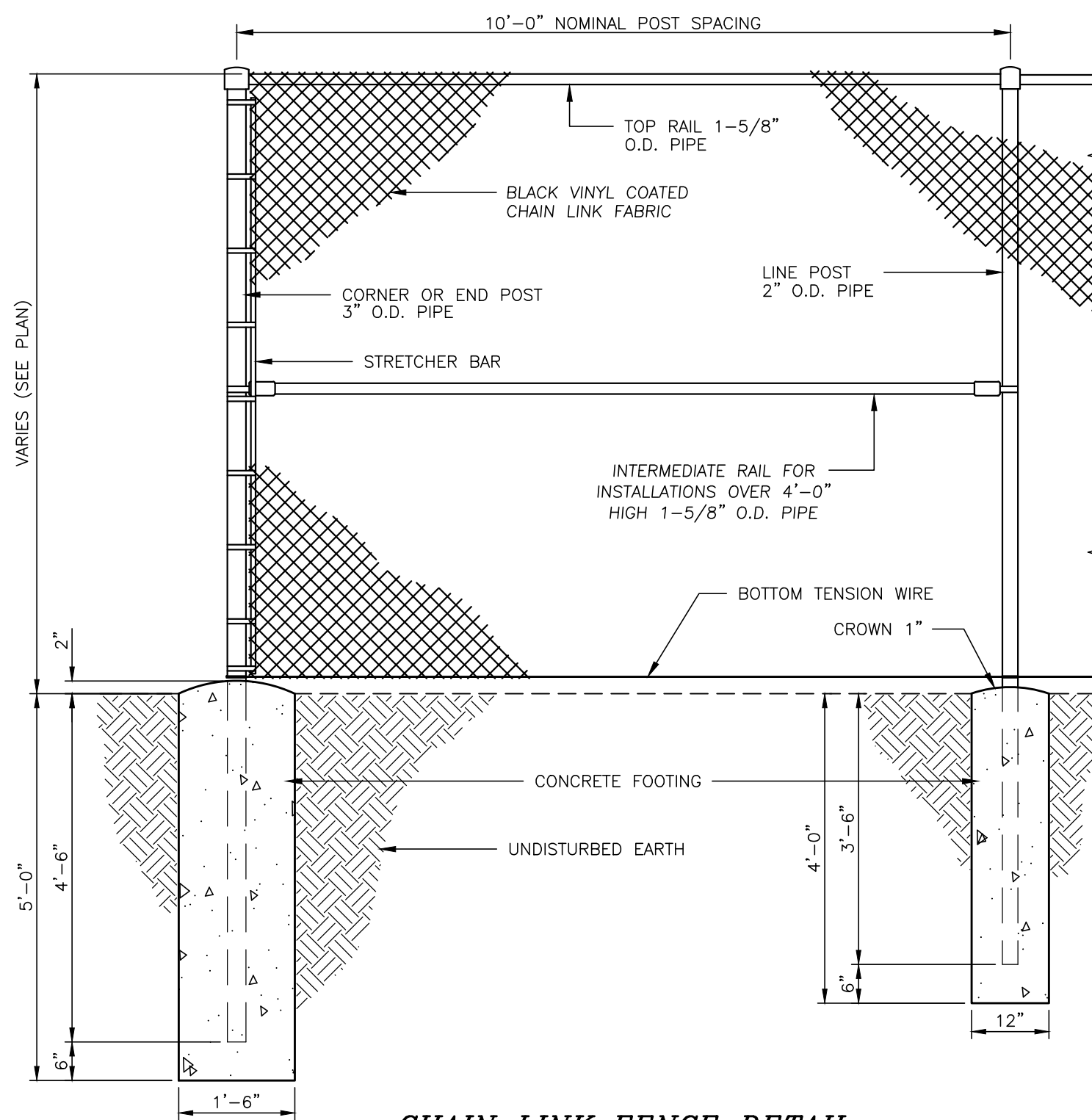


NOTES:
1. STEEL PLATE IS TO BE 0.5\"/>

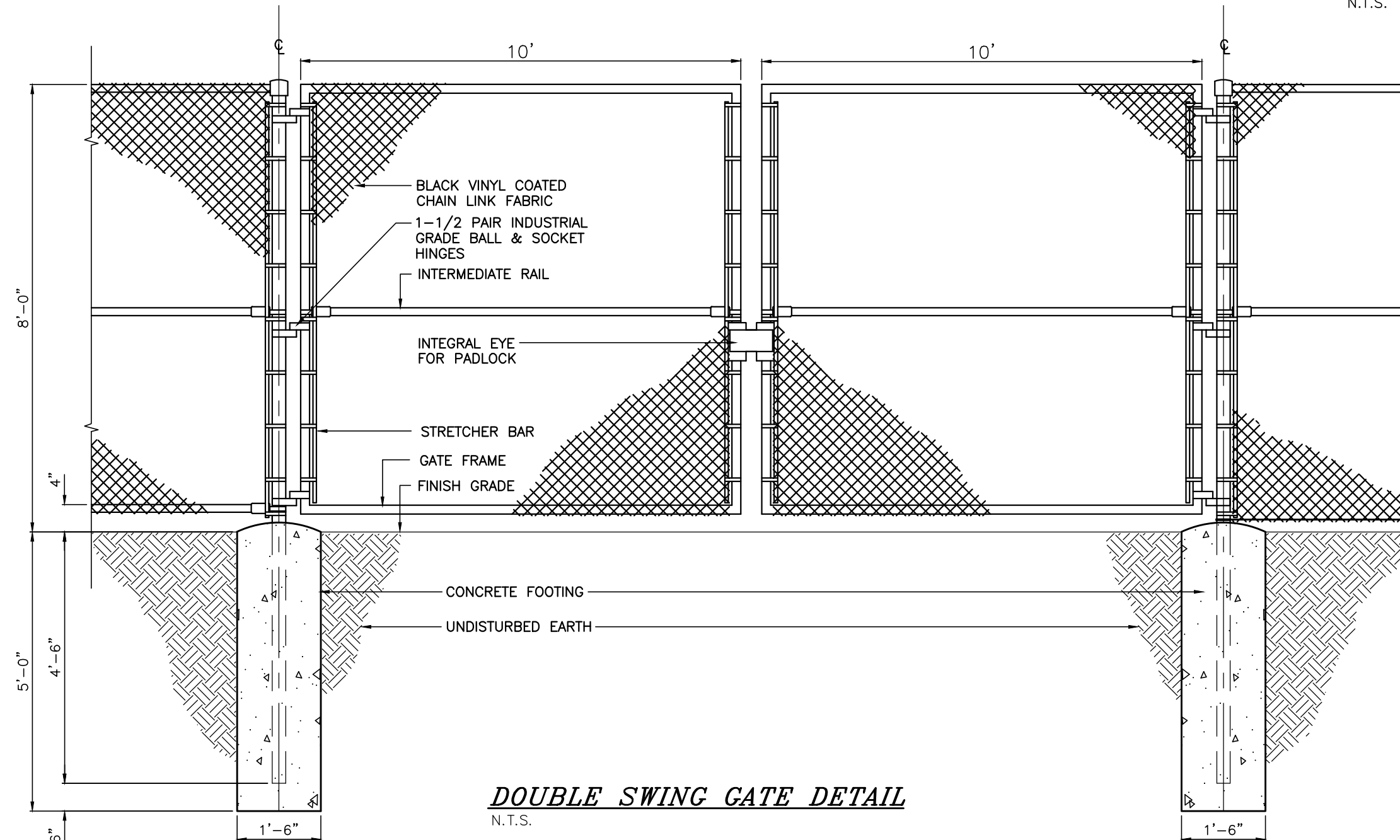
PROPOSED STEEL PLATE W/ LOW FLOW ORIFICE CUTOUT FOR OUTLET STRUCTURE 4P
N.T.S.



PROPOSED OUTLET STRUCTURE 4P DETAIL
N.T.S.



CHAIN LINK FENCE DETAIL
N.T.S.



DOUBLE SWING GATE DETAIL
N.T.S.

11-11-22	FINAL REVIEW BASED ON PUBLIC HEARING COMMENTS	JUP
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N.Y.P.L.S. LICENSE NO. 35396

SIGNATURE _____ DATE _____

BARODA CLUSTER SUBDIVISION
TOWN OF CHESTER
COUNTY OF ORANGE, NEW YORK

PROJECT TITLE		
STORMWATER DETAILS		
SECTION 12, BLOCK 1, LOT 31 (NOT FOR OCHD REVIEW OR APPROVAL)		
DRAWING TITLE		
UNAUTHORIZED ALTERATION OR ADDITION TO A PLAN BEARING A LICENSED LAND SURVEYOR'S OR PROFESSIONAL ENGINEER'S SEAL IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2 OF THE N.Y. STATE EDUCATION LAW.		
O.C.H.D. SHEET NO. N/A OF 7	D.E.C. SHEET NO. N/A OF N/A	DRAWING NUMBER 17 OF 17
SCALE AS SHOWN	CAD REFERENCE WORKING R1	PROJECT NUMBER 14118.01

RESERVED FOR TOWN OF CHESTER PLANNING BOARD APPROVAL