

GENERAL NOTES:
 ANY PROPOSED SIGNS MUST CONFORM TO 425-28B OF THE TOWN OF KINGSTON CODE.

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MAP REVISION DATES		
DATE	REVISION	BY
8/2/2018	ADDED PROPOSED SEPTIC DISPOSAL AREA	CC
1/31/2019	UPDATED LAYOUT	CC
4/16/2019	REVISED SITE PLAN PER TOWN ENGINEER'S COMMENTS	CC
6/5/2019	REVISED SITE PLAN FOR TREE CUTTING	CC
11/26/2019	ADDED PROPOSED SOUND WALL	CC

SITE PLAN
 FOR
850 ROUTE 28 LLC
 TOWN OF KINGSTON
 ULSTER COUNTY NEW YORK

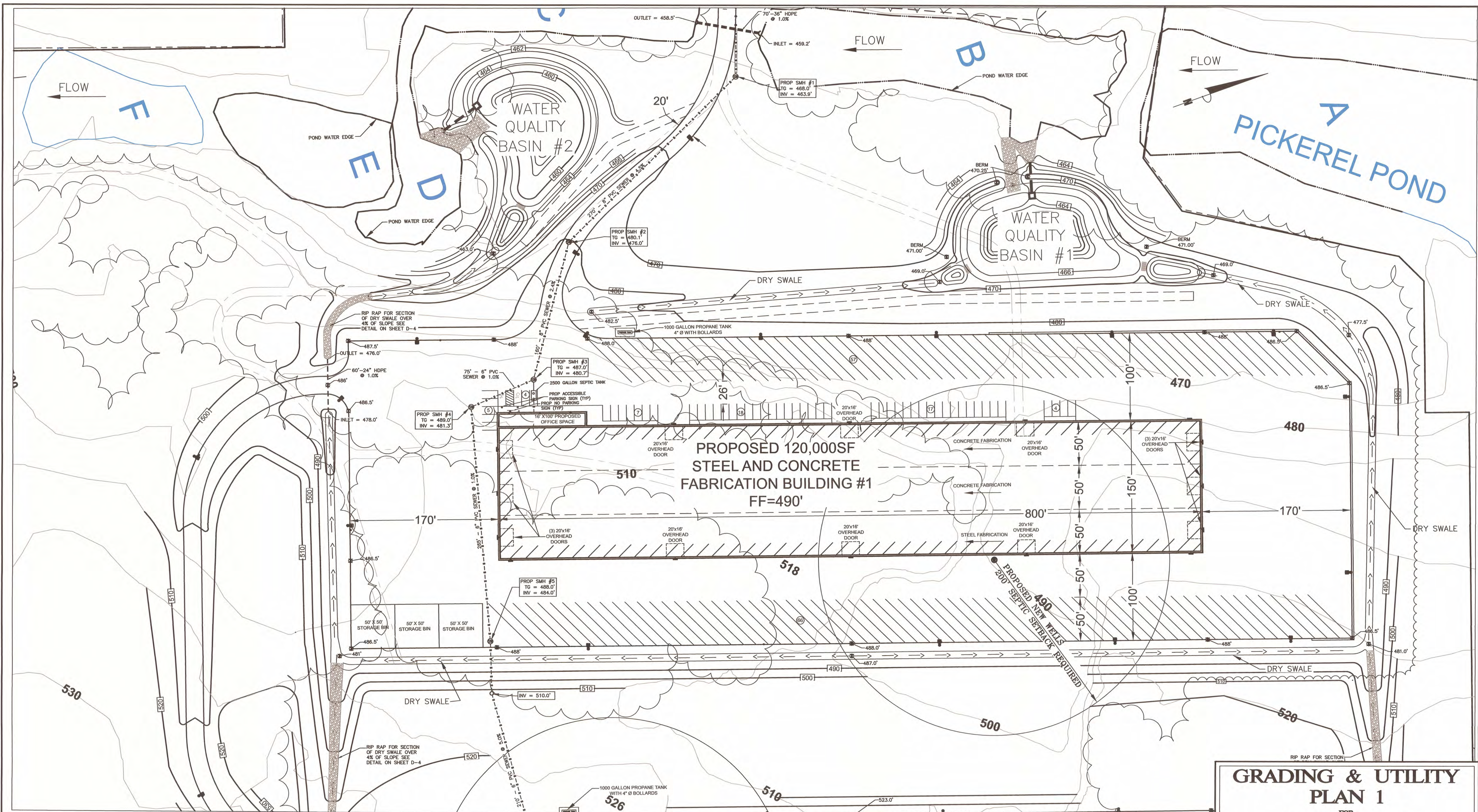
Scale: 1" = 100'

June 08, 2018

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 CIVIL ENGINEERING & LAND SURVEYING, P.C.
 STONE RIDGE, NEW YORK, 12484-0047

BARRY MEDENBACH, P.E.
 NEW YORK LIC. NO. 60142

SP-1
 E17 064
 SHEET 2 OF 20



GENERAL NOTES:
ALL DRY SWALES ARE TO HAVE UNDERDRAINS

MAP REVISION DATES		
DATE	REVISION	BY
12/26/2018	UPDATED LAYOUT	CC
5/14/2019	UPDATED GRADING AROUND WATER QUALITY BASINS	CC
11/26/2019	MOVED STORAGE BINS	CC

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GRADING & UTILITY PLAN 1
 FOR
850 ROUTE 28 LLC
 TOWN OF KINGSTON
 ULSTER COUNTY NEW YORK

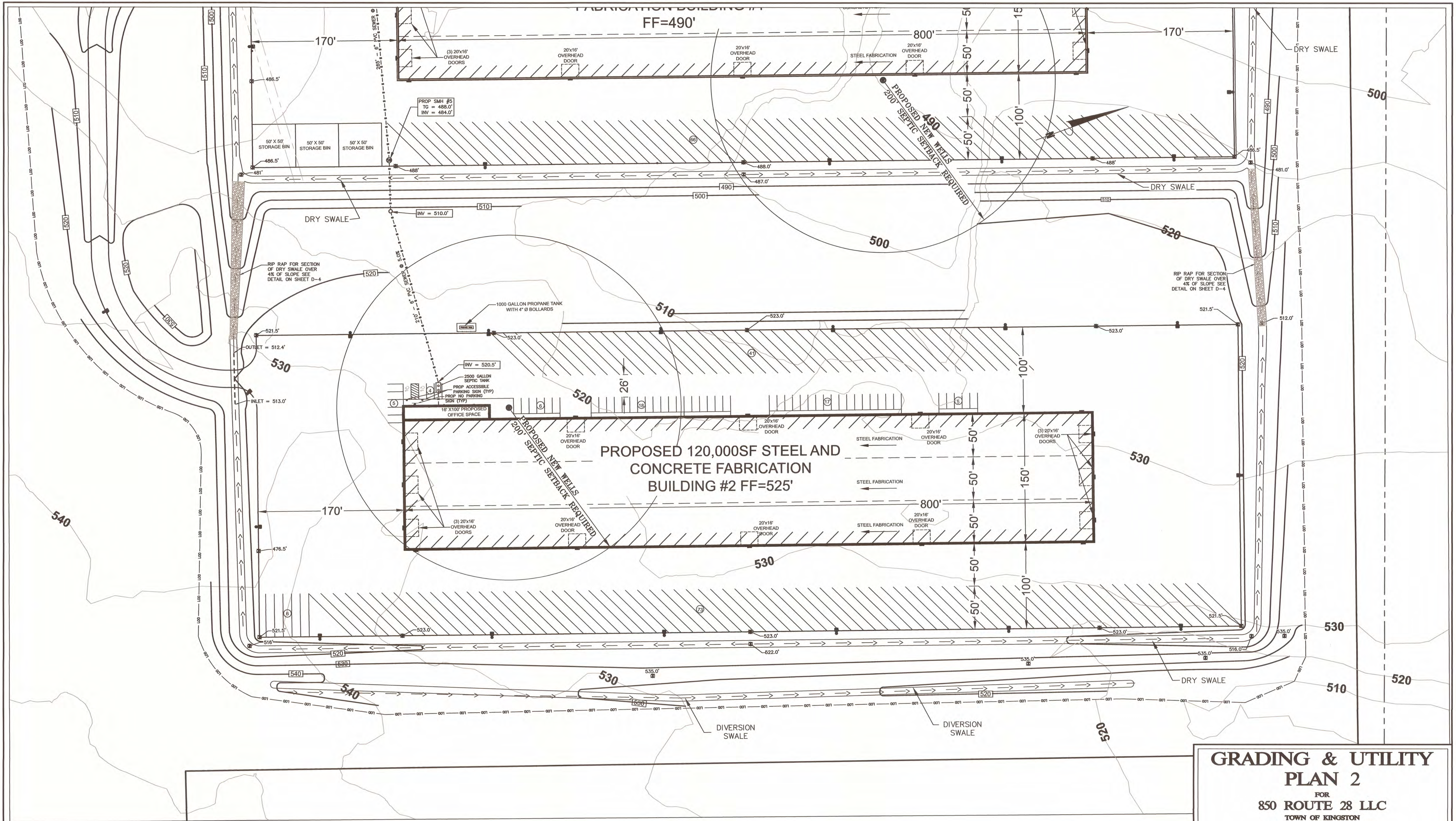
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June 08, 2018

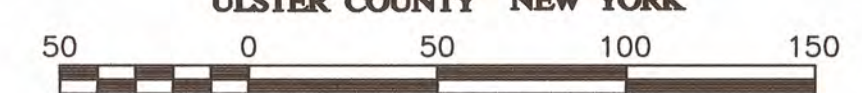
MEDENBACH & EGGERS
 CIVIL ENGINEERS & LAND SURVEYING, P.C.
 STONE BROOK, NEW YORK 12439 687-0047

[Signature]
 BARRY WIDENBACH, P.E.
 NEW YORK LIC. NO. 60347

GP-1
 E27 064
 SHEET 3 OF 20



**GRADING & UTILITY
PLAN 2**
FOR
850 ROUTE 28 LLC
TOWN OF KINGSTON
ULSTER COUNTY NEW YORK



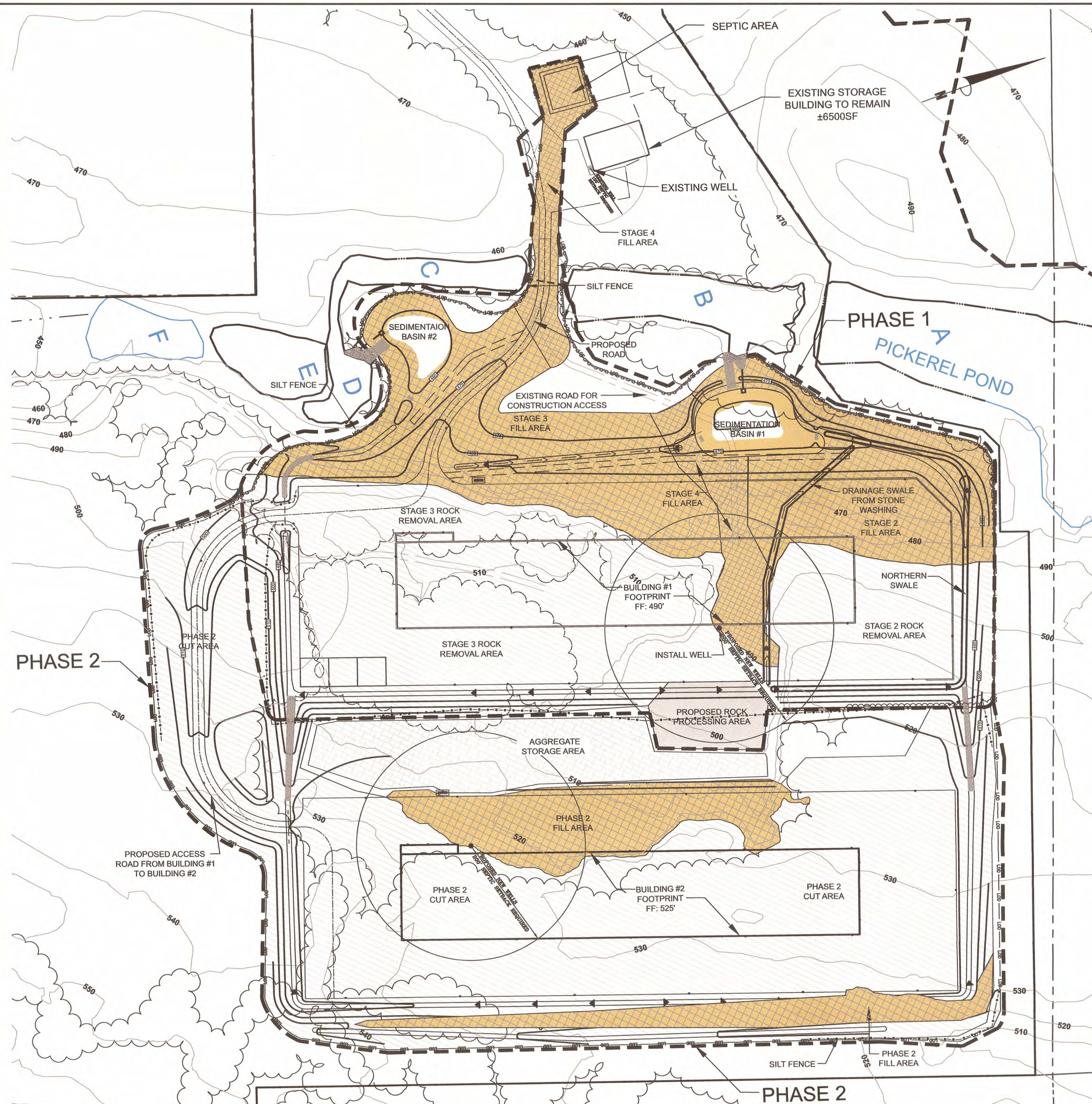
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June 08, 2018

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CIVIL ENGINEERING AND SURVEYING, P.C.
STONE BURNING, NEW YORK (609) 687-0017

[Signature]
HENRY MEDENBACH, P.E.
NEW YORK LIC. NO. 60112
PROFESSIONAL ENGINEER

MAP REVISION DATES		
DATE	REVISION	BY
01/31/2019	ADDED SEPTIC LINE AND MANHOLES	CC
04/16/2019	REVISED PARKING SPACES	CC
11/26/2019	REVISED PARKING SPACES	CC

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KEY LEGEND

- ROCK REMOVAL AREAS
- FILL AREAS
- PROCESSING AREA
- AGGREGATE STORAGE AREA
- HIGH WALL AREA

- PHASE 1 CONSTRUCTION SEQUENCE**
- STAGE 1:**
- INSTALL SILT FENCE AROUND EXISTING PONDS AND SITE
 - REMOVE TREES WITHIN PHASE 1 AREA
 - INSTALL SEDIMENTATION BASIN #1 (FUTURE WATER QUALITY BASIN #1)
 - PREPARE ROCK PROCESSING AREA AND CONSTRUCT SWALE FROM PROCESSING AREA TO SEDIMENTATION BASIN #1
 - CONSTRUCT TEMPORARY SOUND BERMS #1, #2 #3 AND #5 AS SHOWN ON THE SOUND BARRIER PLAN, SHEET PH-2
 - SETUP ROCK PROCESSING AREA (PROCESSING AREA IS TO CONTAIN A CRUSHER, SCREENER AND WASHER)
 - INSTALL PROPOSED WELL NEAR PROPOSED BUILDING #1
- STAGE 2:**
- ROCK REMOVAL TO BEGIN AT NORTH END OF SITE
 - CONSTRUCT TEMPORARY SOUND BERM #4 AS SHOWN ON SHEET PH-2 (SOUND BARRIER PLAN)
 - USABLE OR PROCESSED ROCK TO BE MOVED TO STORAGE AREA
 - EXCESS MATERIAL TO BE USED AS FILL MATERIAL AT NORTH END OF SITE.
 - INSTALL SWALE AROUND NORTH END OF PROPOSED SITE TO SEDIMENTATION BASIN.
- STAGE 3:**
- INSTALL SEDIMENTATION BASIN #2 (FUTURE WATER QUALITY BASIN #2)
 - ROCK REMOVAL TO BEGIN AT SOUTH END OF SITE FOR PHASE 1.
 - USABLE OR PROCESSED ROCK TO BE MOVED TO STORAGE AREA
 - EXCESS MATERIAL TO BE USED TO CONSTRUCT THE PROPOSED ROAD TO BUILDING #1 AND BRING THE REMAINING BUILDING PAD AREA TO PROPOSED GRADE
- STAGE 4:**
- INSTALL 3 FOOT DIAMETER CULVERT OVER EXISTING ROAD BETWEEN PONDS B AND C.
 - FINISH FILL PLACEMENT FOR PROPOSED ROAD OVER THE EXISTING ACCESS ROAD AND BUILDING SITE FOR PHASE 1
 - TEMPORARY SOUND BERM #1 AND TEMPORARY SOUND BERM #4 ARE TO BE INCORPORATED INTO FILL AREA OF PHASE 1
 - PREPARE SITE FOR BUILDING #1
 - INSTALL SWALE AROUND SITE FOR PHASE 1 AS SHOWN ON SITE PLAN
 - INSTALL 18" CULVERT IN THE EASTERN SWALE TO ALLOW ACCESS TO AGGREGATE STORAGE AREA
- STAGE 5:**
- CONSTRUCTION OF BUILDING #1
 - INSTALL PROPOSED SEPTIC AREA, MANHOLES, SEPTIC TANK FOR BUILDING #1 AND ALL PROPOSED SEWER LINES WITHIN PHASE 1
 - INSTALL SOUND FENCE ALONG NORTH AND WEST SIDE OF THE PROJECT AS SHOWN ON THE SOUND BARRIER PLAN, SHEET PH-2

- PHASE 2 CONSTRUCTION SEQUENCE**
- REMOVE TREES WITHIN PHASE 2 AREA
 - REMOVE ROCK AS NEED TO BUILDING CONNECTING ROAD FROM BUILDING #1 TO BUILDING #2 CONSTRUCTION AREA
 - CONSTRUCT DIVERSION SWALE, SOUND BERM #1 AND TEMPORARY SOUND FENCE TO THE SOUTH OF PHASE 2 (AS SHOWN ON SHEET PH-2) ALONG EASTERN AND NORTHERN EDGE OF PHASE 2.
 - ROCK REMOVAL FOR PHASE 2
 - INSTALL SWALE AND SOUND BERM #2 (AS SHOWN ON SHEET PH-2) AROUND NORTH END OF PROPOSED SITE TO SEDIMENTATION BASIN
 - USABLE OR PROCESSED ROCK TO BE MOVED TO STORAGE AREA
 - EXCESS MATERIAL TO BE USED AS FILL
 - PREPARE SITE FOR BUILDING #2
 - INSTALL SWALE AROUND SITE FOR PHASE 2 AS SHOWN ON SITE PLAN
 - CONSTRUCTION OF BUILDING #2
 - INSTALL PROPOSED WELL FOR BUILDING #2
 - INSTALL MANHOLE, SEPTIC TANK FOR BUILDING #2 AND ALL PROPOSED SEWER LINES WITHIN PHASE 2
 - AFTER ALL STONE CRUSHING HAS BEEN COMPLETED, ANY SEDIMENT SHALL BE REMOVED FROM ALL SWALES AND SEDIMENTATION BASINS.
 - THEN THE SEDIMENTATION BASINS SHALL BE RESHAPED AS NEEDED TO BECOME WATER QUALITY BASINS
 - INSTALL REMAINING DRYSWALE BETWEEN BUILDING #1 AND BUILDING #2

ROCK CUT AND FILL VOLUME SUMMARY

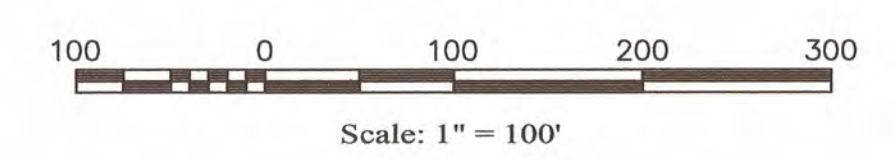
PHASE	TOTAL CUT IN PLACE VOLUME (YD ³)	FILL VOLUME (YD ³) ON-SITE (13' x IN PLACE VOLUME)	GRAYWACKE MATERIAL IN-PLACE VOLUME (YD ³) (TO BE USED FOR CONCRETE AGGREGATE ON-SITE)	EXCESS MATERIAL VOLUME (YD ³) TO BE TRUCKED OFF-SITE (16' x IN PLACE VOLUME)
PHASE 1	±265,000	±120,000	±135,000	±60,000
PHASE 2	±140,000	±34,000	±50,000	±102,000
TOTALS:	±405,000	±154,000	±185,000	±162,000

TREE CUTTING NOTE:
 1. ALL TREE CUTTING IS TO BE LIMITED ON THE SITE FROM OCTOBER 1 TO MARCH 31.

MAP REVISION DATES

DATE	REVISION	BY
04/16/2019	REVISED KEY LEGEND	CC
11/26/2019	REVISED CONSTRUCTION SEQUENCE	CC

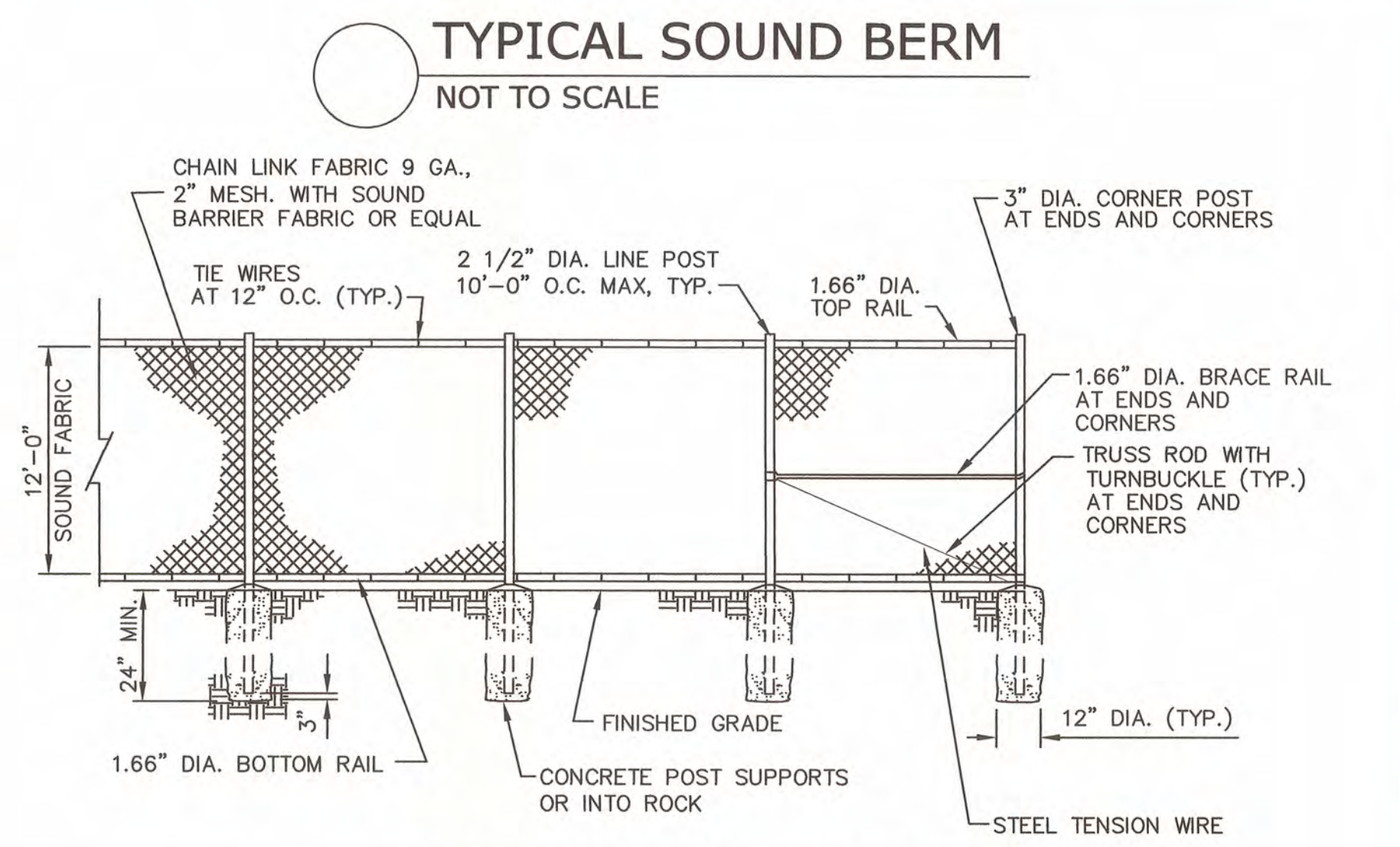
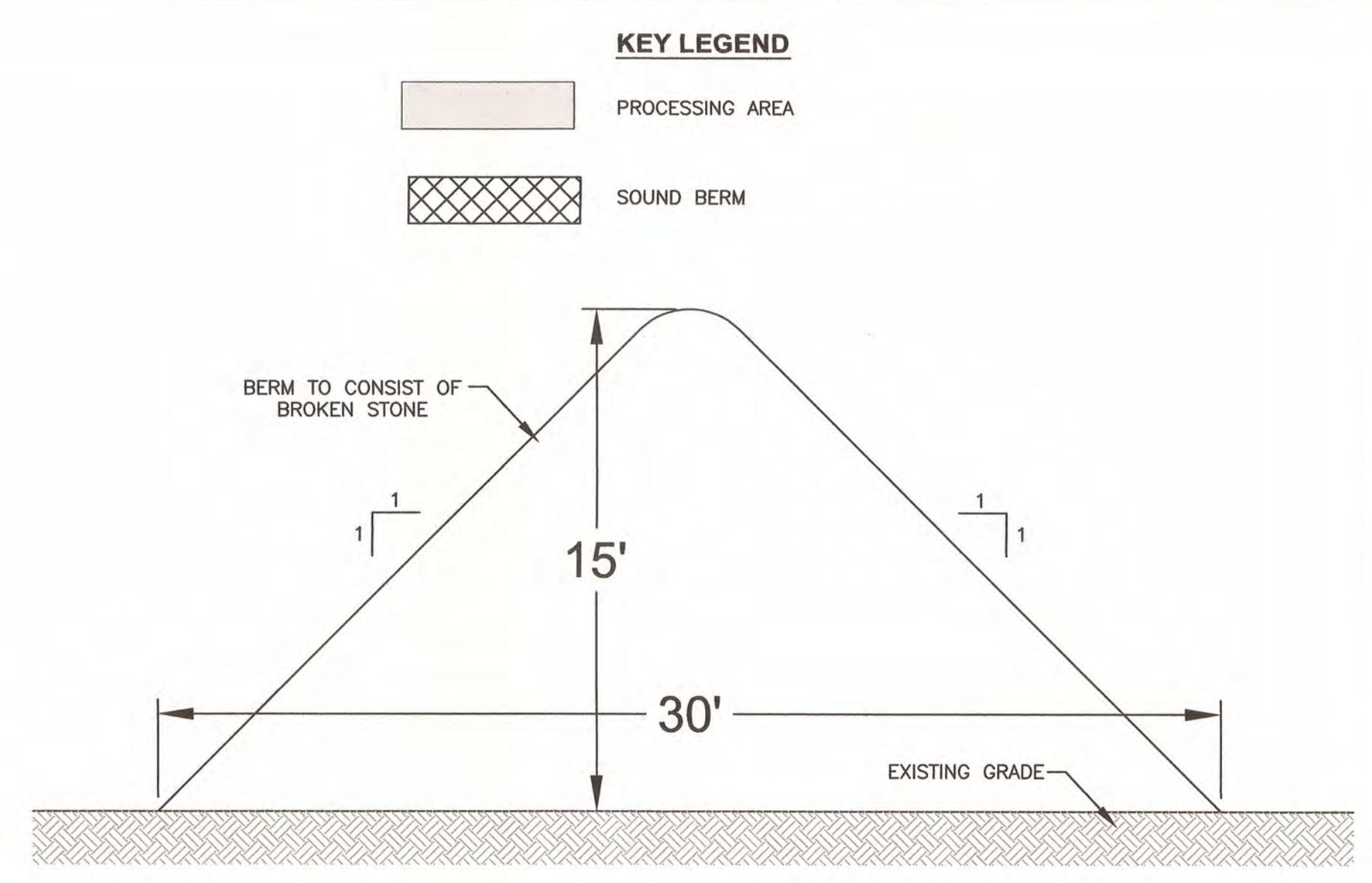
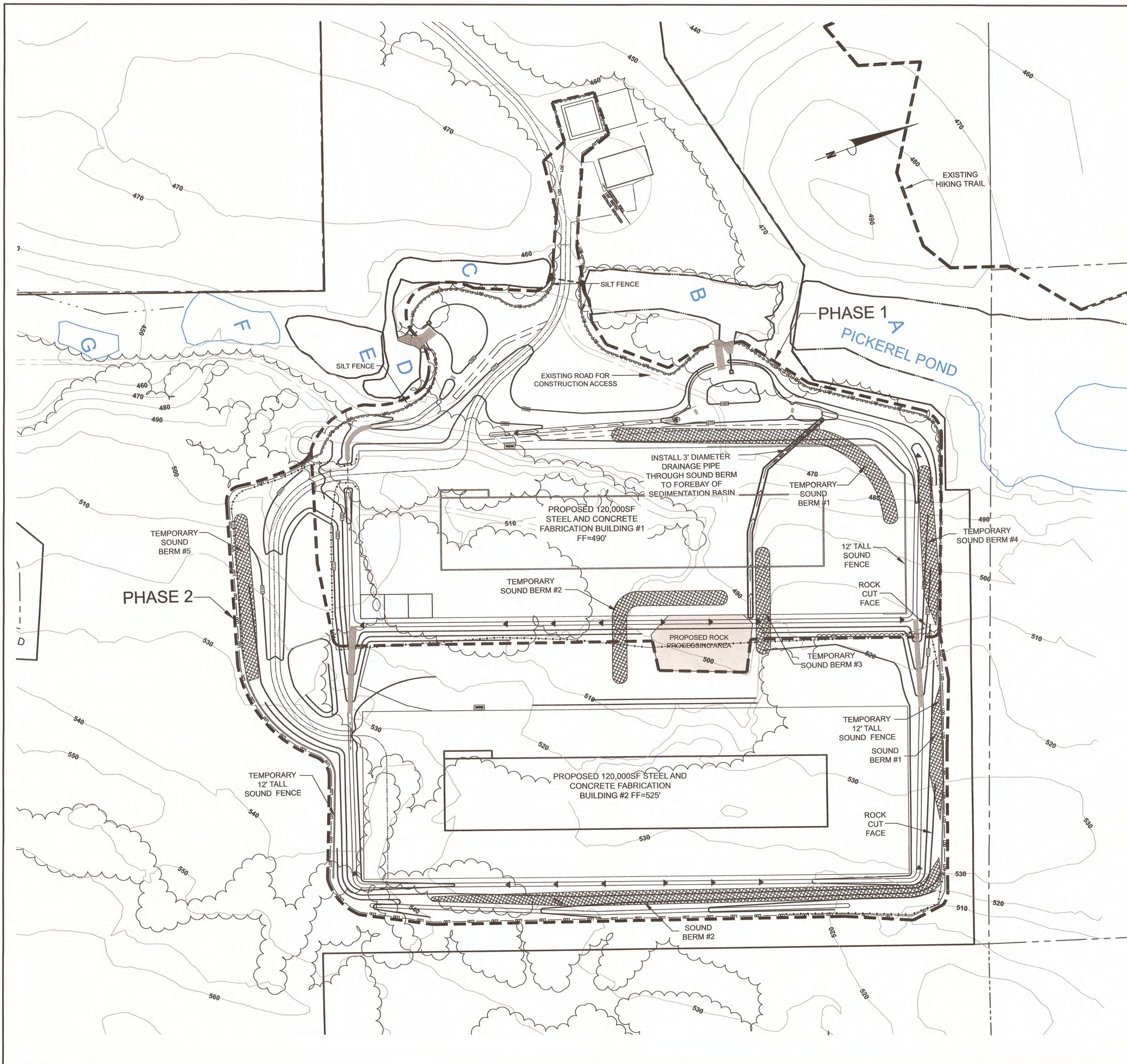
PHASING PLAN
 FOR
850 ROUTE 28 LLC
 TOWN OF KINGSTON
 ULSTER COUNTY NEW YORK



DECEMBER 14, 2018
MEDENBACH & EGGERS
 CIVIL ENGINEERING AND SURVEYING, P.C.
 STATE LICENSE NO. 0451687-0047

[Signature]
BARRIE MEDENBACH, P.E.
 NEW YORK LICENSE NO. 69142

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- TYPICAL SOUND FENCE**
NOT TO SCALE
- PHASE 1 SOUND BARRIERS**
- TEMPORARY SOUND BARRIERS #1, #2, #3 AND #4.
 - SOUND FENCE ALONG NORTH AND WEST SIDES OF PHASE 1 PARKING
- PHASE 2 SOUND BARRIERS**
- SOUND BERMS #1, #2, TEMPORARY SOUND BERM #5 AND SOUND FENCE ALONG SOUTH AND NORTH SIDE OF PHASE 2 AREA.
- SEE PHASING PLAN, SHEET PH-1 FOR PHASING OF SOUND BARRIERS.

MAP REVISION DATES

DATE	REVISION	BY

SOUND BARRIER PLAN

FOR
850 ROUTE 28 LLC
TOWN OF KINGSTON
ULSTER COUNTY NEW YORK

Scale: 1" = 100'

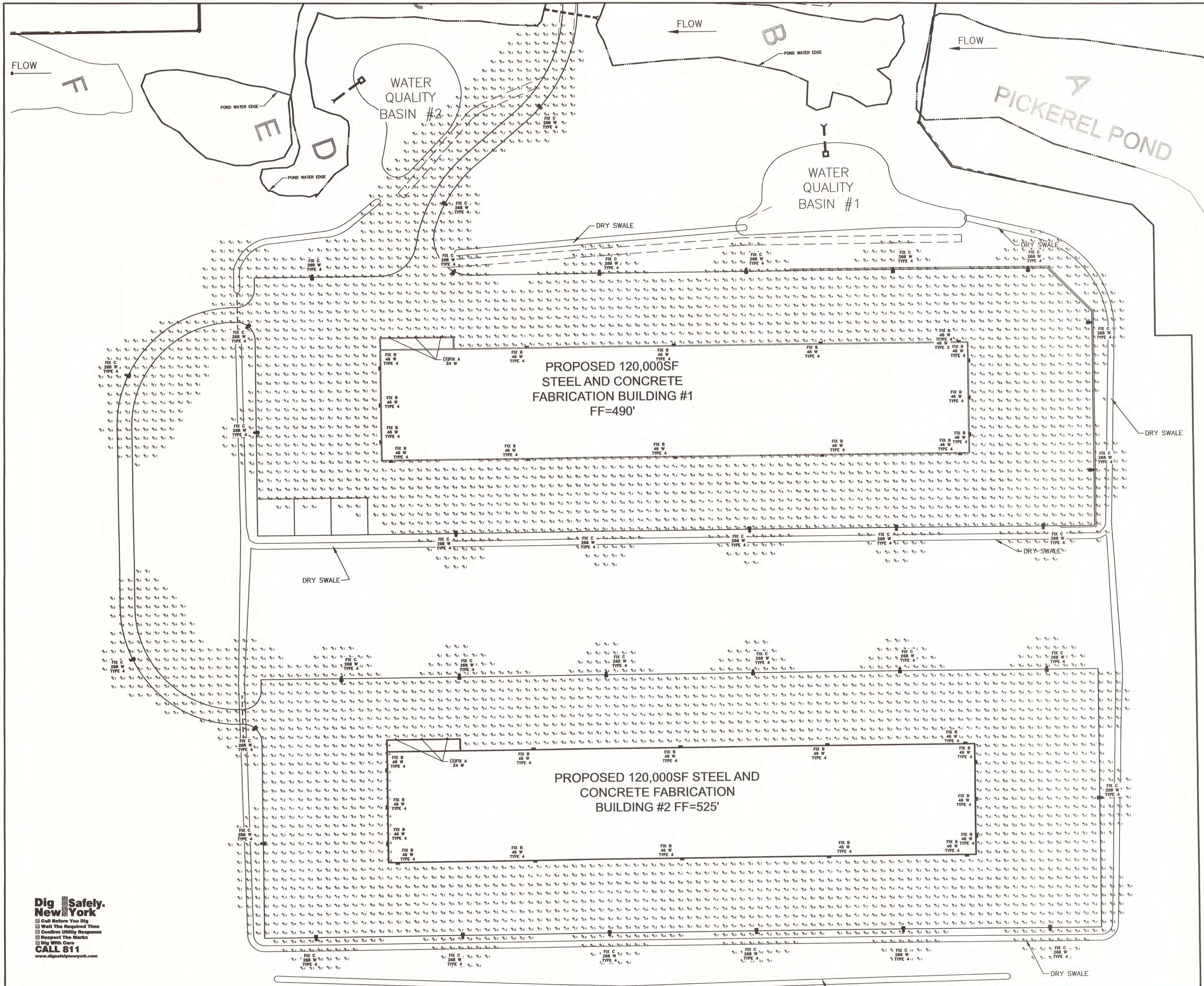
NOVEMBER 26, 2019

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PH-2
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SHEET 6 OF 20

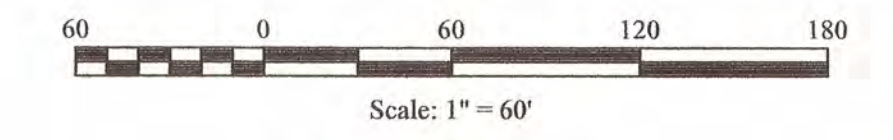


GENERAL NOTES:
 • ALL LIGHTING FIXTURES SHALL BE FULLY SHIELDED AND DARK SKIES COMPLIANT.

LIGHTING LEGEND				
FIXTURE	Wattage (TYPE)	DENOTED BY	HEIGHT (PLACEMENT)	QTY.
A	24 W (LED)	■	12'	6
B	46 W (LED)	■	18'	30
C	268 W (LED)	●	25'	34

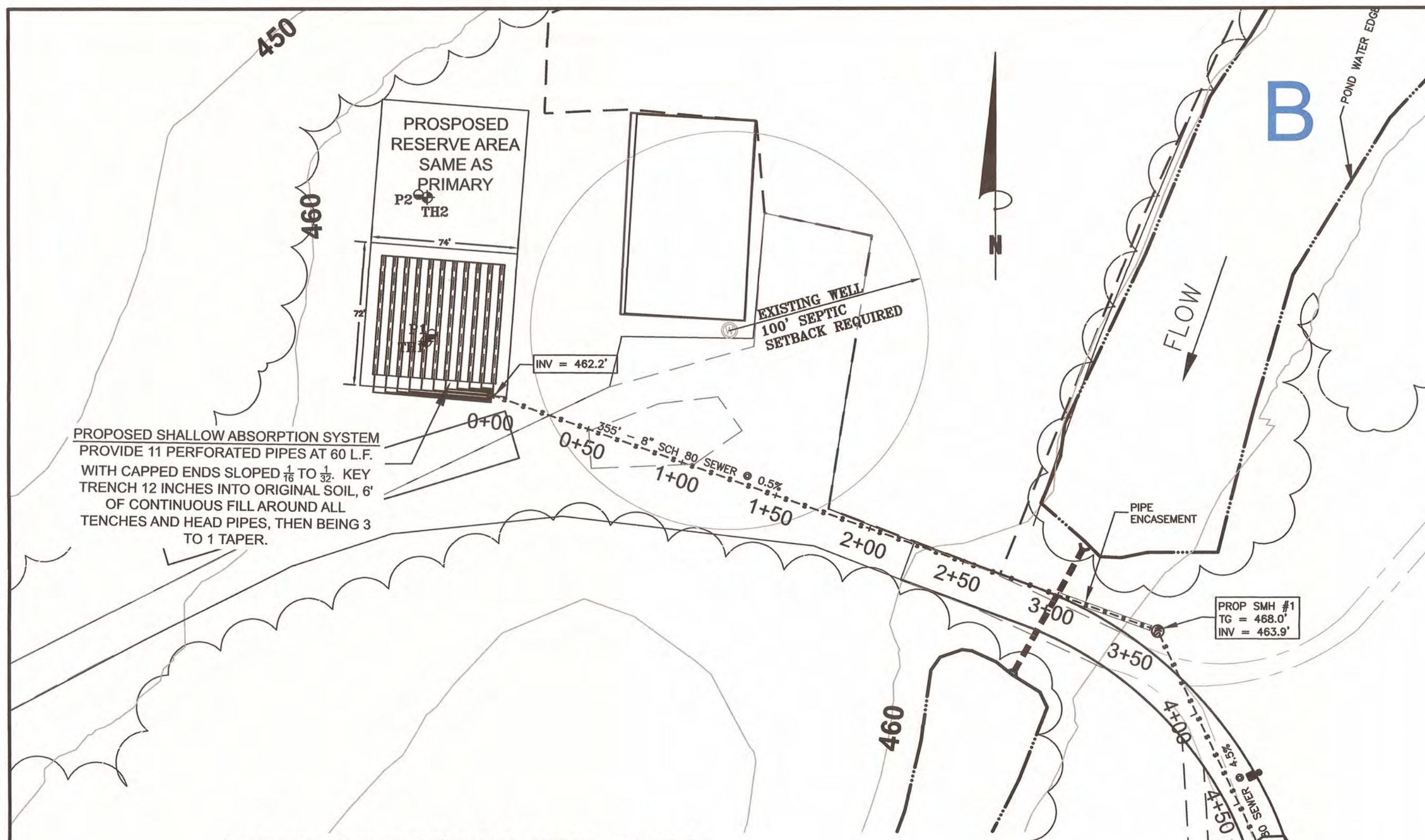
MAP REVISION DATES		
DATE	REVISION	BY

LIGHTING PLAN
 FOR
850 ROUTE 28 LLC
 TOWN OF KINGSTON
 ULSTER COUNTY NEW YORK



JANUARY 31, 2019
MEDENBACH & EGGERS
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 STONE RIDGE, NEW YORK 12586-0047
 [Professional Seal]
 BARRY MEDENBACH, P.E.
 NEW YORK LIC. NO. 60842
 PROFESSIONAL ENGINEER

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RESERVE DESIGN SPECIFICATIONS

AVERAGE DAILY FLOW = 60 EMPLOYEES X 15 GPD/EMPLOYEE = 900 GPD
 STABILIZED PERCOLATION RATE = 16 MIN. / INCH
 APPLICATION RATE = 0.7 G.P.D./SQ.FT.
 REQUIRED ABSORPTION AREA = 900/0.7 = 1285 SQ.FT.
 PROVIDE 11 PIPES @ 60 L.F. = 660 L.F. IN 2' WIDE LEACHING TRENCH = 1320 SQ.FT.

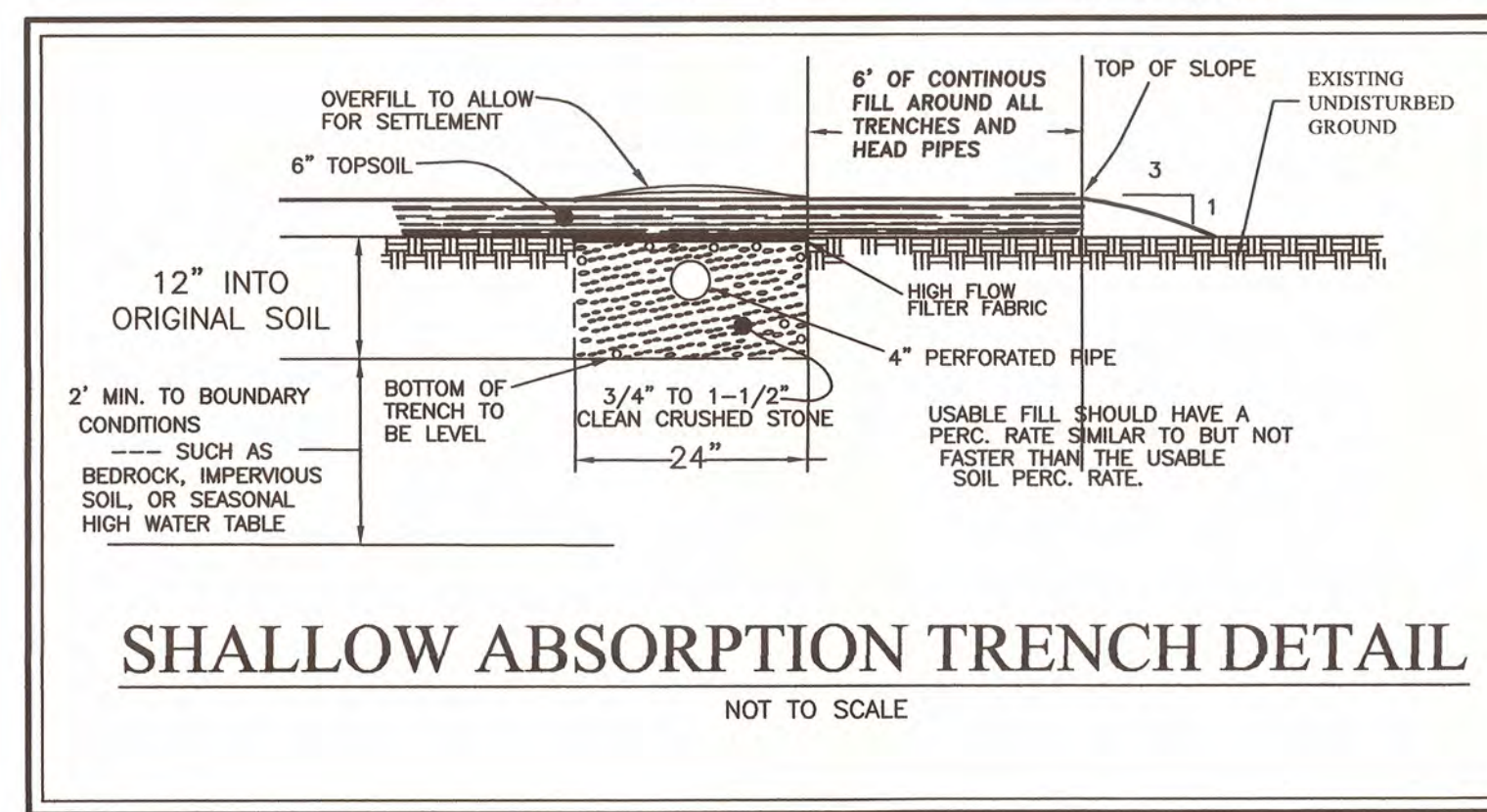
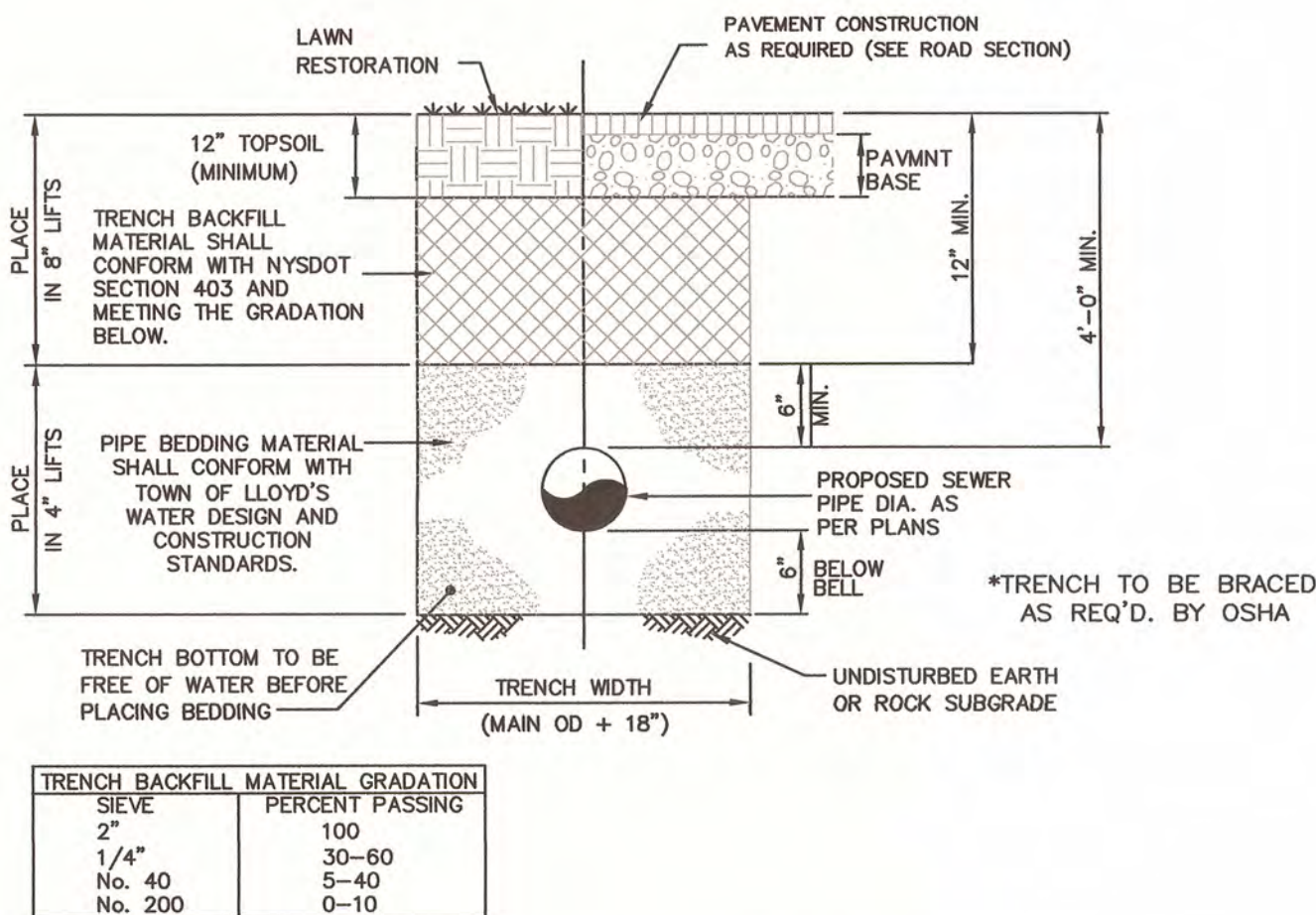
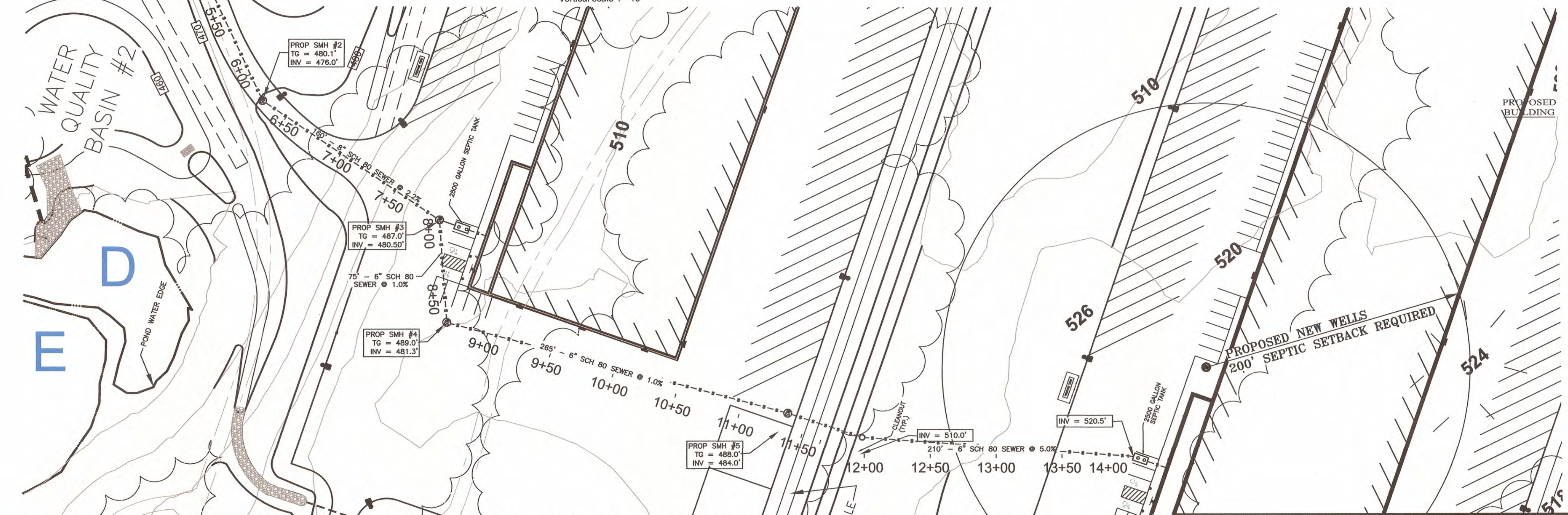
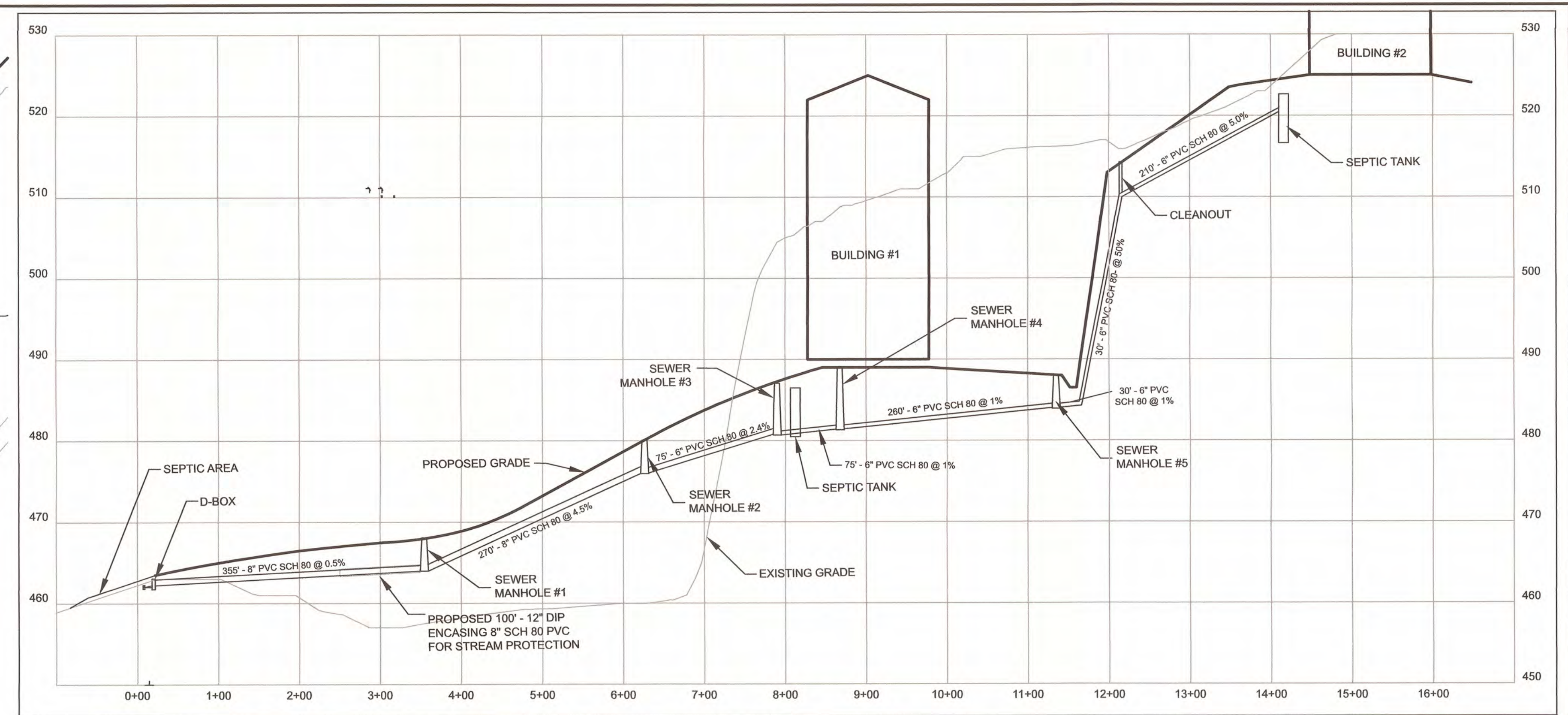
TEST HOLE DATA

TH# DENOTES SOIL TEST HOLE LOCATIONS (WITNESSED BY JAMES RODDEN ON 8/22/2018)

TEST HOLE	DEPTH	DESCRIPTION
1	0 TO 2"	TOPSOIL
	2" TO 40"	GRAVEL SILT LOAM W/ BROKEN BLUE STONE
		ROCK AT 40", NO WATER MOTTLING
2	0 TO 2"	TOPSOIL
	2" TO 50"	GRAVEL SILT LOAM W/ BROKEN BLUE STONE
		ROCK AT 50", NO WATER MOTTLING

PERC HOLE DATA

P# DENOTES PERCOLATION TEST LOCATIONS (TESTED ON 7/3/2018)
 P1 = 1 MIN./INCH
 P2 = 16 MIN./INCH



MINIMUM SANITARY SETBACK REQUIREMENTS

	WELL OR SUCTION LINE	STREAM OR WATERBODY	DWELLING	PROPERTY LINE	DRAINAGE DITCH
HOUSE SEWER	50'	25'	3'	10'	-
SEPTIC TANK	50'	50'	10'	10'	10'
LINE TO DIST. BOX	50'	50'	10'	10'	10'
DISTRIBUTION BOX	100'	100'	20'	10'	20'
DISPOSAL AREA	100'	100'	20'	10'	20'

MAP REVISION DATES

DATE	REVISION	BY
02/22/2019	PIPE ENCASUREMENT	KJP

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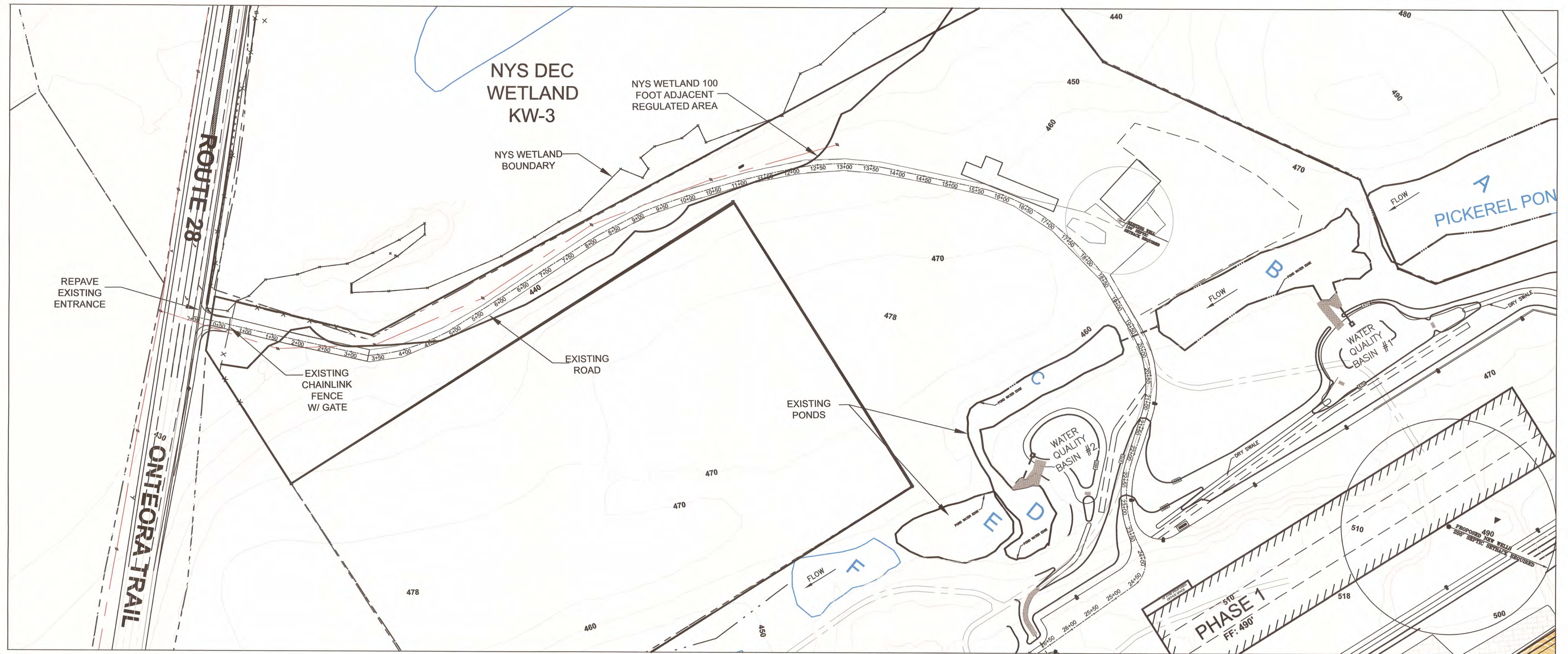
SEPTIC PLAN
 FOR
850 ROUTE 28 LLC
 TOWN OF KINGSTON
 ULSTER COUNTY NEW YORK

Scale: 1" = 50'

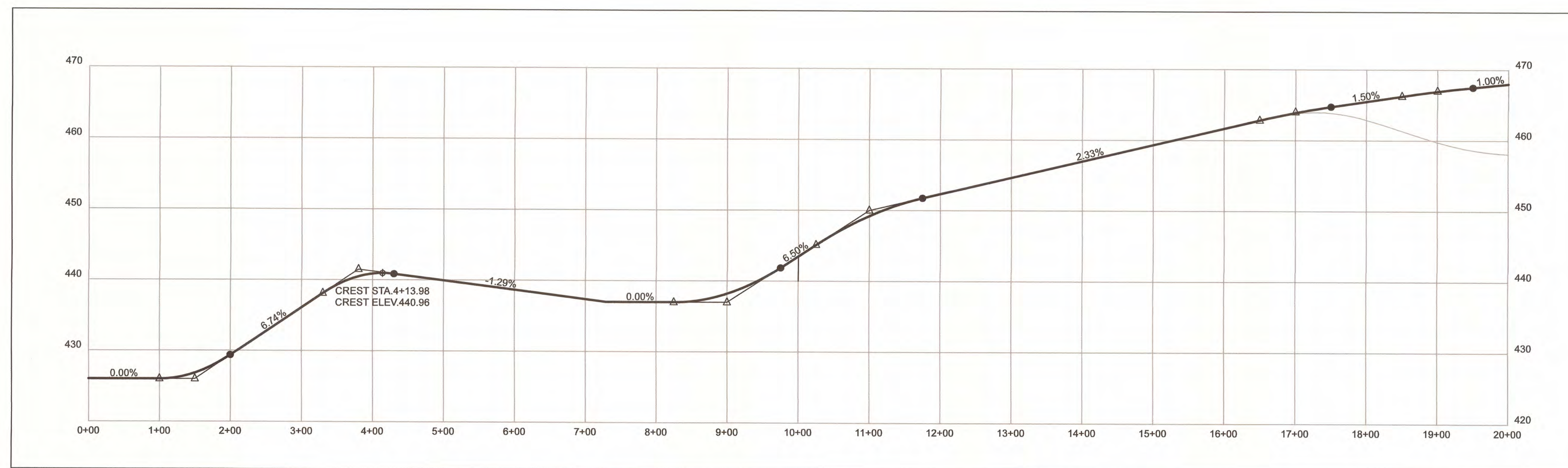
JANUARY 31, 2019

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 STONE RIDGE, NEW YORK 12484

SEPP-1
 E17 064
 SHEET 8 OF 20



EXISTING ROAD PROFILE PLAN

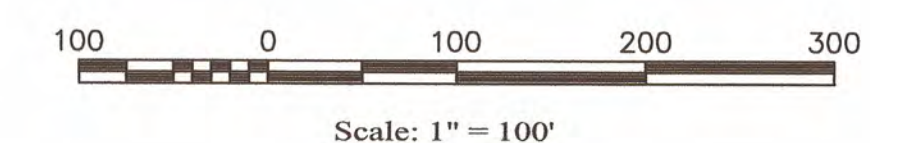


EXISTING ROAD PROFILE: STATION 0+00 TO STATION 20+00

Horizontal scale 1"=100'
Vertical scale 1"=10'

MAP REVISION DATES		
DATE	REVISION	BY
7/17/2018	ADDED TEXT FOR WETLAND BOUNDARY	CC
1/31/2019	ADDED PROPOSED ROAD PROFILE LINE	CC

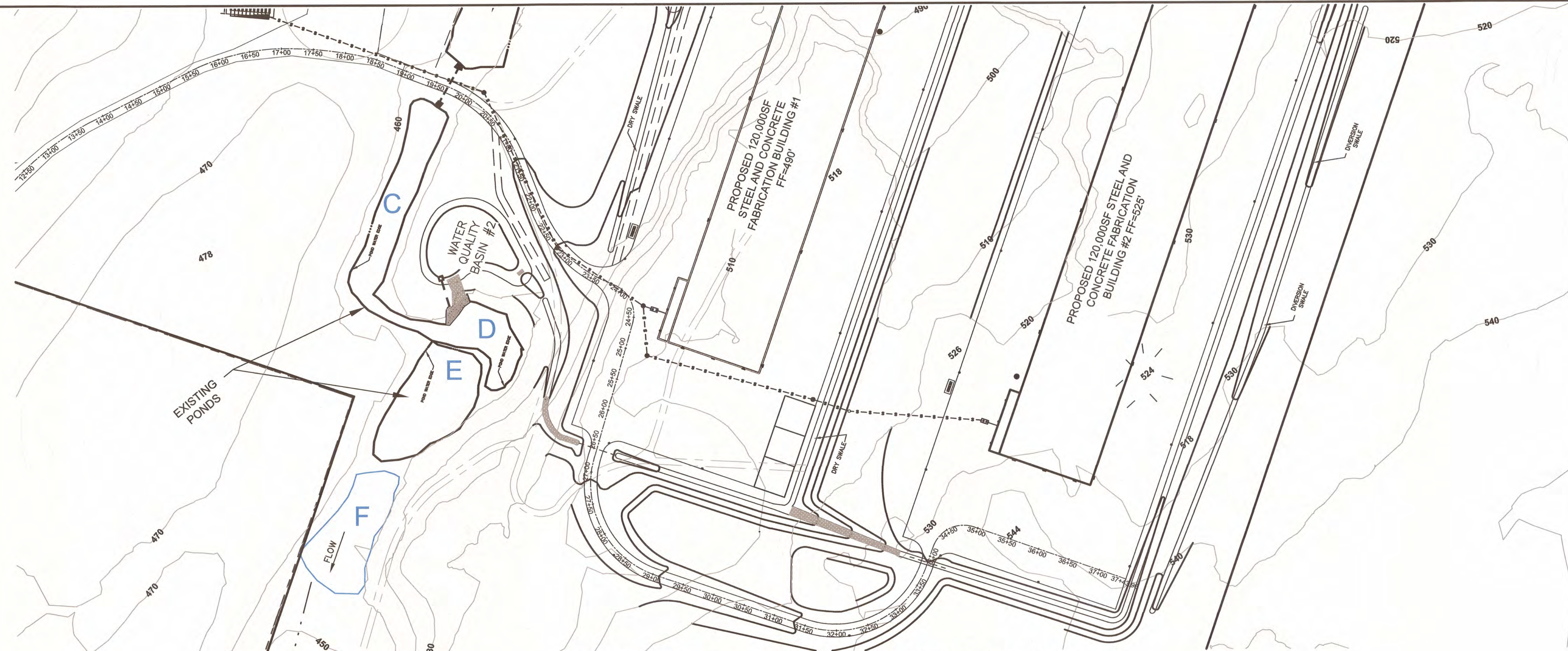
EXISTING ROAD PROFILE
FOR
850 ROUTE 28 LLC
TOWN OF KINGSTON
ULSTER COUNTY NEW YORK



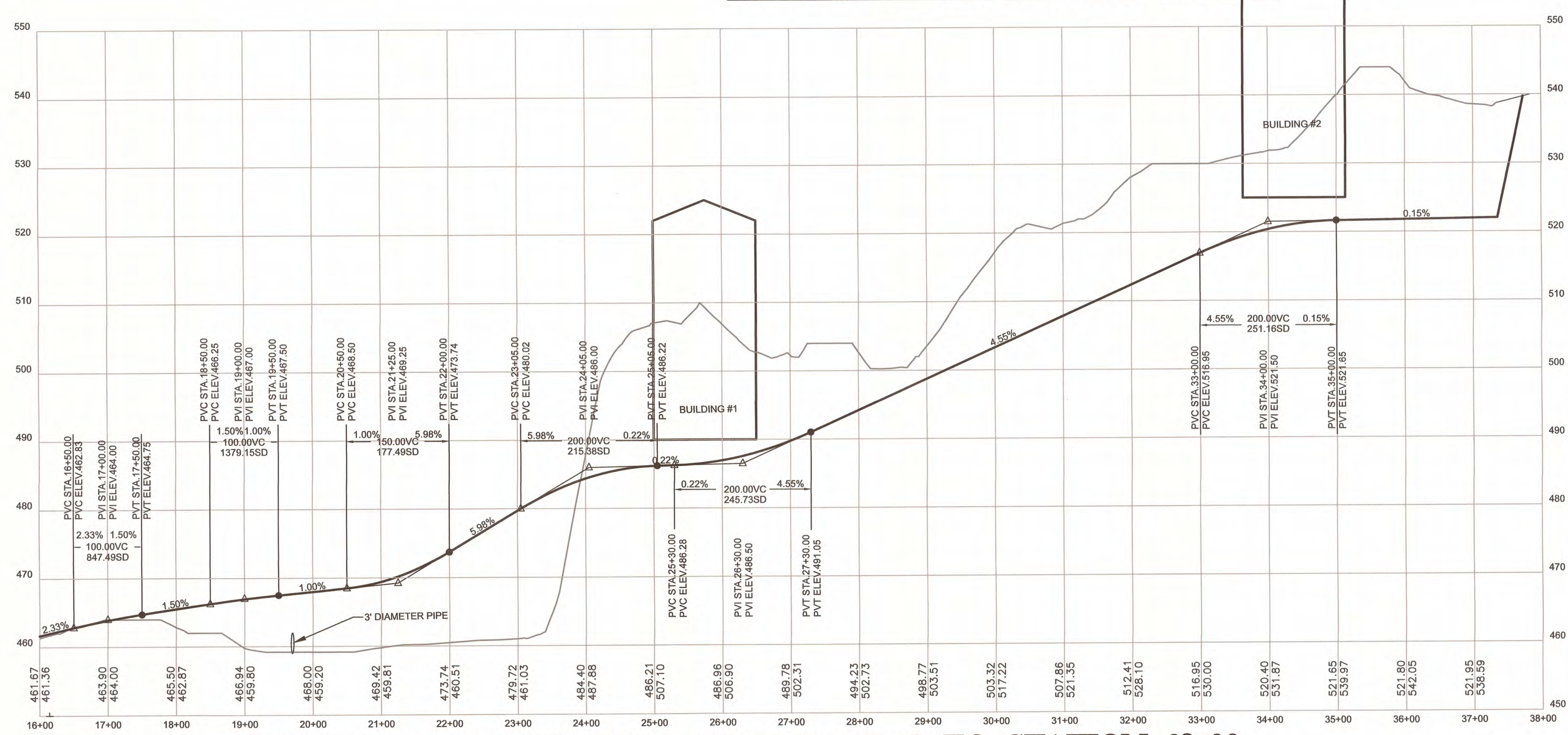
JUNE 08, 2018

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CIVIL ENGINEERING & LAND SURVEYING, P.C.
STONE BROOK, NEW YORK 12587-0047

[Signature]
RARRY MEDENBACH, P.E.
NEW YORK LIC. NO. 00162



PROPOSED ROAD PROFILE PLAN:



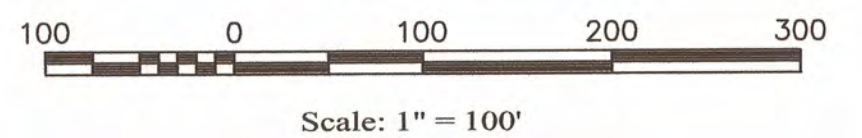
EXISTING ROAD PROFILE: STATION 17+00 TO STATION 38+00

Horizontal scale 1"=100'
Vertical scale 1"=10'

MAP REVISION DATES		
DATE	REVISION	BY
1/31/2019	REVISE PROFILE TO REDUCE FILL NEAR STREAM	CC

PROPOSED ROAD PROFILE

FOR
850 ROUTE 28 LLC
TOWN OF KINGSTON
ULSTER COUNTY - NEW YORK

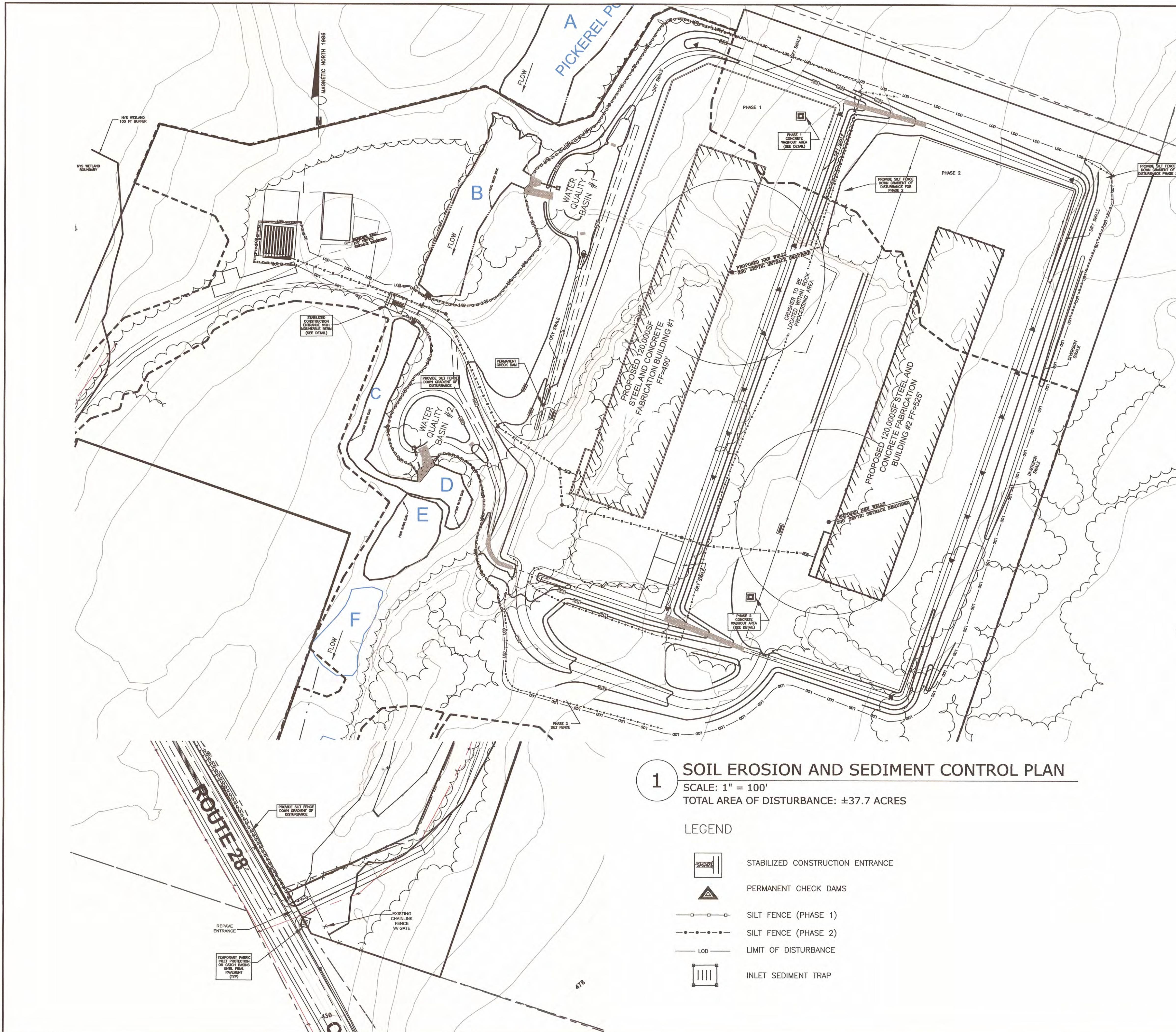


June 8, 2018

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BARRY MEDENBACH, P.E.
NEW YORK LIC. NO. 60442

RP-2
E17 064
SHEET 10 OF 20



1 SOIL EROSION AND SEDIMENT CONTROL PLAN
 SCALE: 1" = 100'
 TOTAL AREA OF DISTURBANCE: ±37.7 ACRES

- LEGEND**
- STABILIZED CONSTRUCTION ENTRANCE
 - PERMANENT CHECK DAMS
 - SILT FENCE (PHASE 1)
 - SILT FENCE (PHASE 2)
 - LIMIT OF DISTURBANCE
 - INLET SEDIMENT TRAP

Sequence of Construction Activity:

The following sequence of soil erosion and sediment control measures shall be followed during the duration of the project. In addition the guidelines in Section 3 of the SWPPP shall be implemented where applicable.

- Schedule a pre-construction meeting:** a pre-construction meeting shall be held to review plans and inspect site with town officials including Town Engineer, Contractors, and Project Managers at least one week prior to the start of construction, equipment staging and site disturbance.
- Establish Limits of Clearing and Sensitive Areas to be Protected:** Prior to any construction and/or demolition activities commence all vegetation to be preserved shall be protected. In addition the property boundaries and/or limits of clearing shall be clearly marked. A pre-construction meeting shall be held prior to any land disturbance or grading to review plans and inspect site.
- Construct Stabilized Access to Site:** Install the stabilized construction entrances as indicated to provide access for construction traffic to the site.
- Establish Perimeter Controls and Sediment Barriers:** Silt fences will be installed along the perimeter of the site disturbance as shown and around any stockpiles. Silt fences will be installed as per the detail on this sheet. Locations of installation are indicated on this sheet. Temporary/Permanent diversion swales may also be installed to divert runoff from undisturbed areas around the proposed areas of disturbance.
- Land Clearing and Rough Grading:** Begin demolition and clearing activities as per plans. The ground surface shall be cleared of all trees, stumps, brush, weeds, roots, matted leaves, small structures, debris, and any other unsuitable material, except as otherwise directed by the engineer. Material accumulated by clearing as described above shall be disposed of by the contractor in a manner satisfactory to the engineer. After clearing and demolition all topsoil shall be stripped and stockpiled for use in final grading as indicated on plans. Excess topsoil not required for final grading may be removed from the site. Rock excavation is to start on the North side of the site and to move south by advancing an east/west trending excavation face. The sedimentation basins (water quality basins) shall be installed prior to the rock removal beginning. The sedimentation basins shall be inspected weekly to check for sediment build up. The permanent drainage conveyance system shall be installed after all the rock has been removed. Establish temporary vegetation on any areas with soil which will not be disturbed for a period 7 days or more. Parking and driveway areas may be stabilized with road base material or bare rock. The water quality basins shall be cleared of all sediment after each phase of construction is completed.
- Soil Stabilization:** In areas where soil disturbance activity has temporarily or permanently ceased, the application of soil stabilization measures must be initiated by the end of the next business day and completed within (7) days from the date the current soil disturbance activity ceased.
- Building Construction:** During the building construction maintain erosion controls as necessary. Dust from construction activity shall be controlled as needed determined by the Town's Engineer.
- Landscaping and Final Stabilization:** Place topsoil and install landscaping as indicated on Stream Protection Plan (SPP). Construct bio-retention zone and check stormwater pond for any sediment buildup in conjunction with final stabilization.
- Final Inspection and Removal of Temporary BMPs:** Perform final inspection of site to ensure all disturbed areas are stabilized. If all disturbed areas are stabilized temporary erosion control measures shall be removed.

Site Inspection Frequency:

The owner or operator shall have a qualified inspector conduct site inspections in conformance with the following requirements:

- When soil disturbances are on going inspections shall be conducted by a qualified professional at least twice every seven (7) calendar days. Inspections must be separated by two calendar days.
- When soil disturbance activities have been temporarily suspended (winter shutdown etc.) and temporary stabilization measures have been applied to all disturbed areas, the qualified inspector shall conduct a site inspection at least once every thirty (30) calendar days. The owner or operator must notify the NYS DEC Regional Office in writing prior to reducing the inspection frequency.
- For sites where the soil disturbance activities have been shut down with partial project completion, the qualified inspector can stop conducting inspections if all areas disturbed as of the project shutdown date have achieved final stabilization and all post-construction stormwater management practices required for the completion of the project portion are in place and constructed in accordance with the SWPPP. The owner or operator shall notify the NYS DEC Regional Office in writing prior to the shutdown. If soil disturbance is not resumed within 2 years from the shutdown date the owner operator shall have the qualified inspector perform a final inspection to certify all disturbed areas have achieved final stabilization, and all temporary, structural erosion and sediment control measures have been removed; and all post-construction stormwater management practices have been constructed in conformance with the SWPPP by signing the "Final Stabilization" and "Post-Construction Stormwater Management Practice" certification statements on the Notice of Termination. The completed Notice of Termination shall be submitted to NYS DEC.

MAP REVISION DATES		
DATE	REVISION	BY
05-14-2019	REVISED NOTES AND SILT FENCE	CC
11-26-2019	REVISED LOD AND SILT FENCE	CC

SOIL EROSION AND SEDIMENT CONTROL

FOR
850 ROUTE 28 LLC
 TOWN OF KINGSTON
 ULSTER COUNTY NEW YORK

Scale: 1" = 100'
 JANUARY 31, 2019

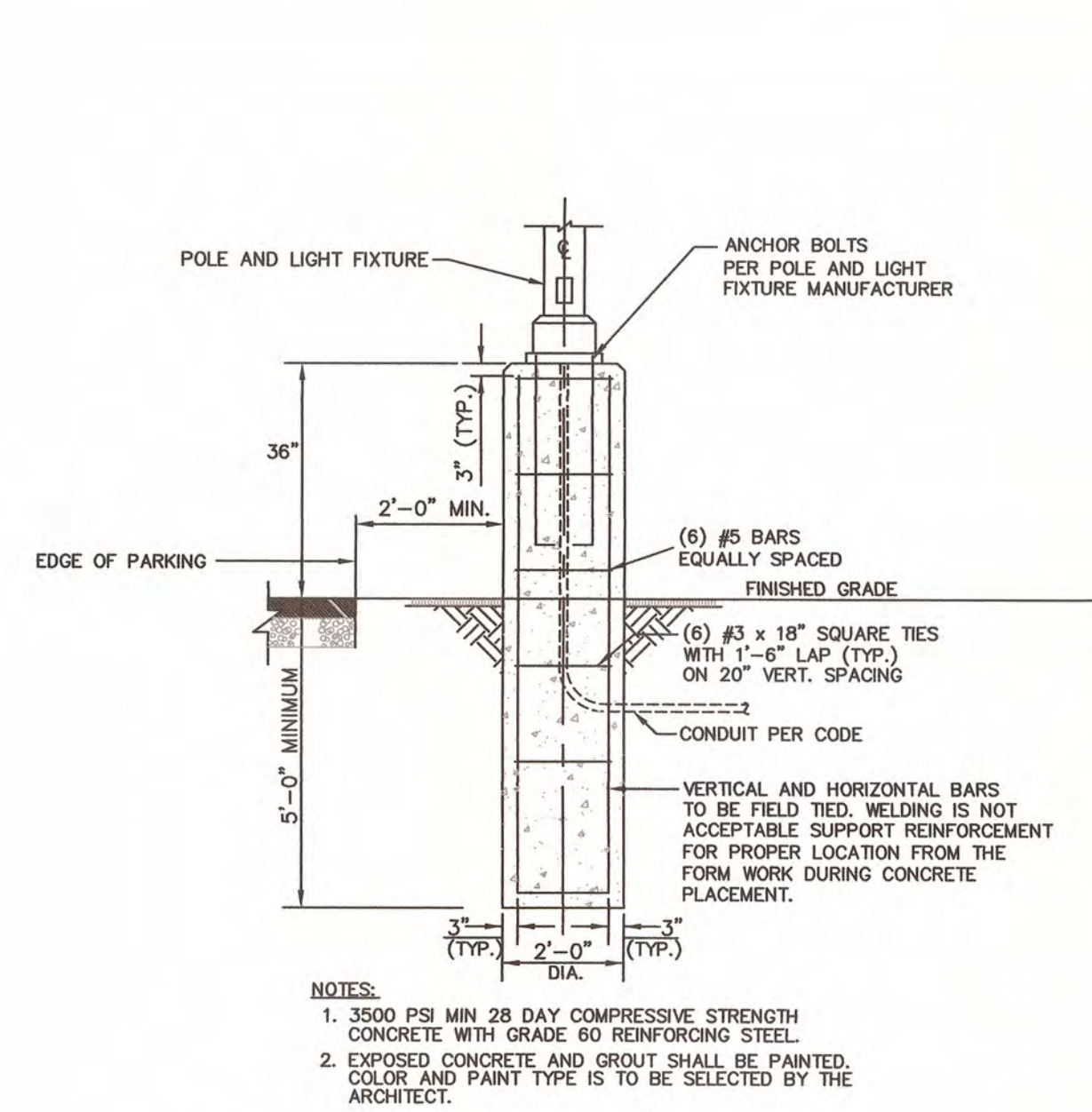
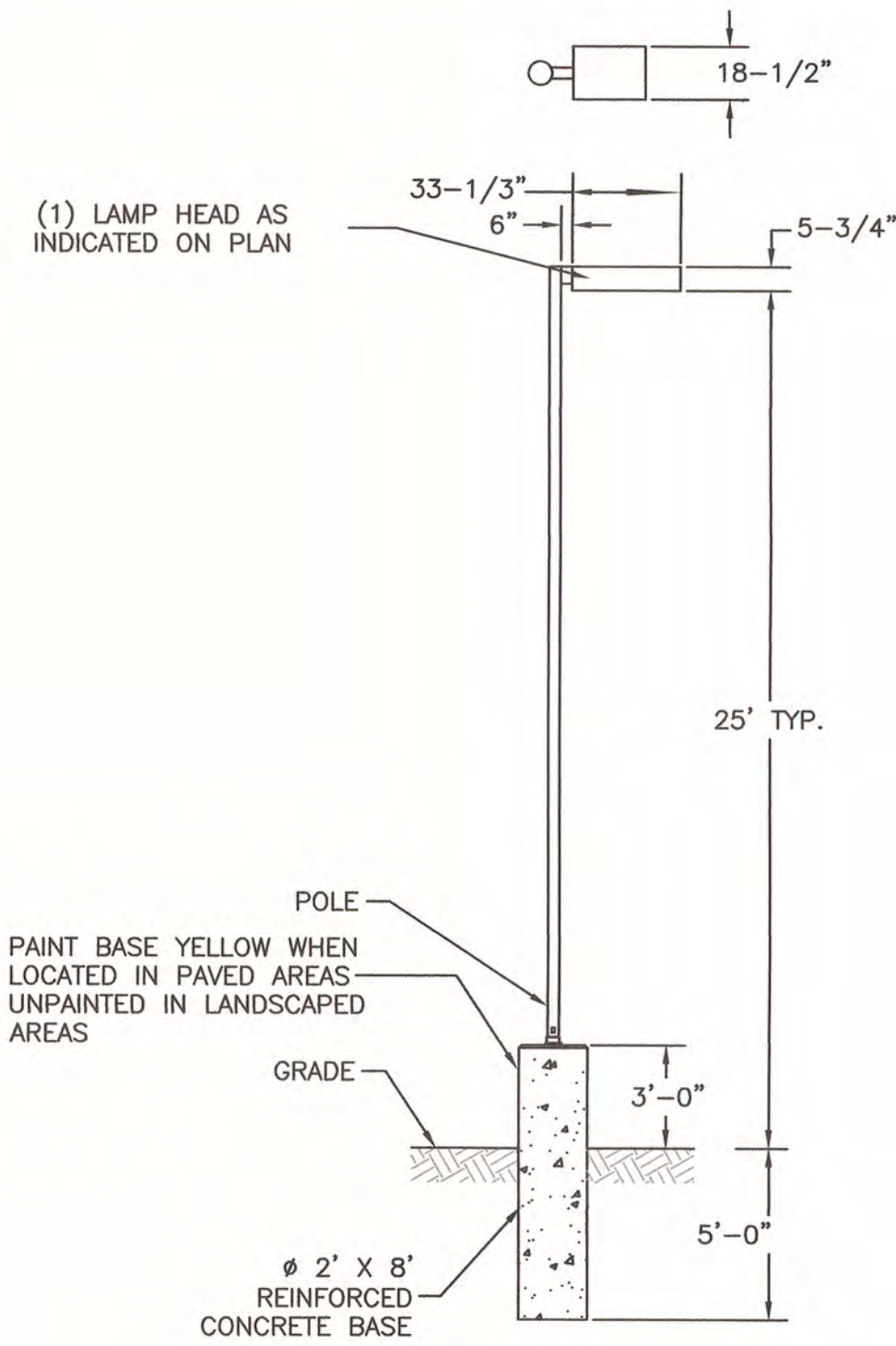
MEDENBACH & EGGERS
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 STONEY CREEK, NEW YORK 12153-887-0047

[Signature]
 BARRY MEDENBACH, P.E.
 NEW YORK J.C. NO. 90142

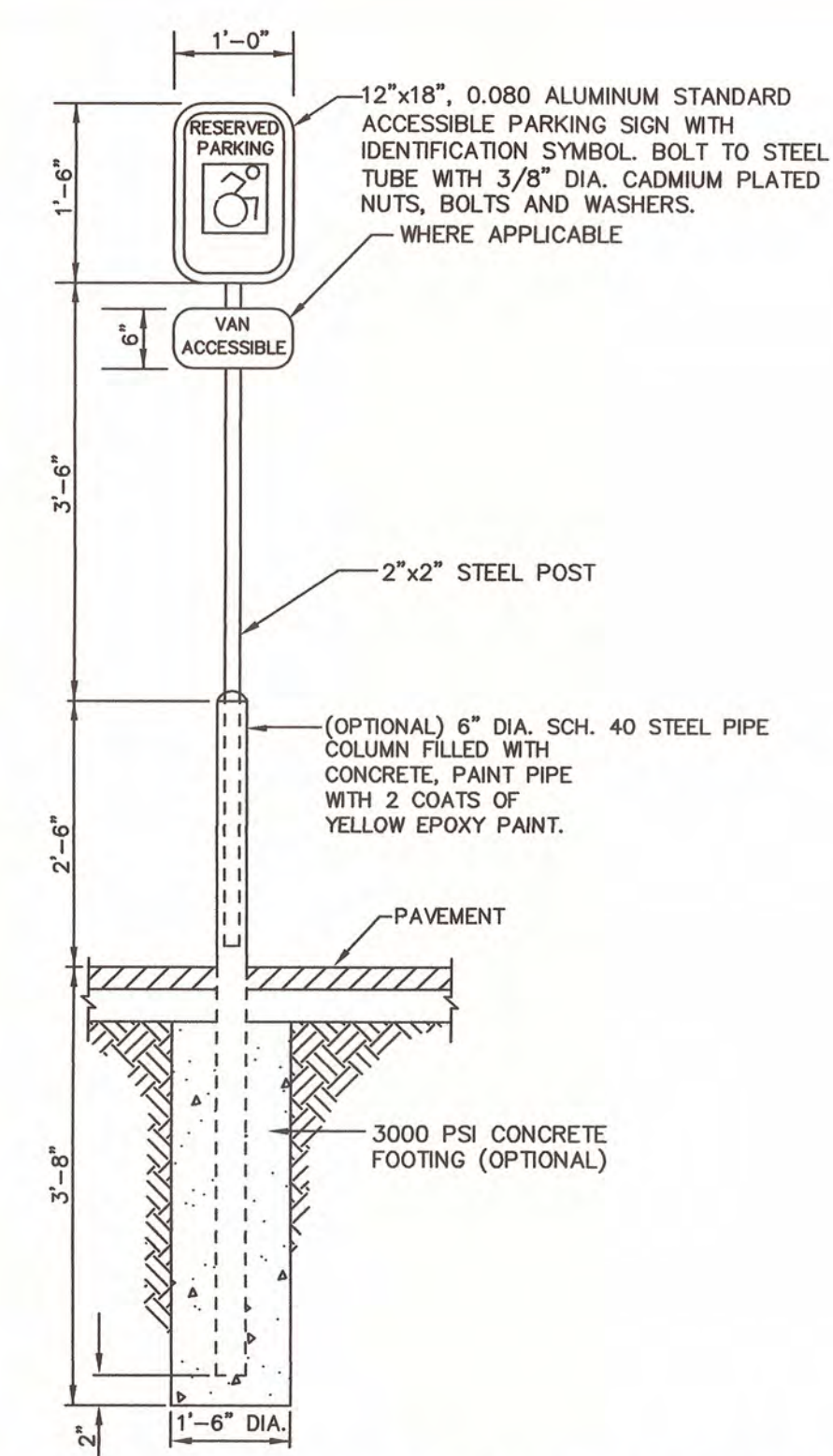
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 SHEET 12 OF 20

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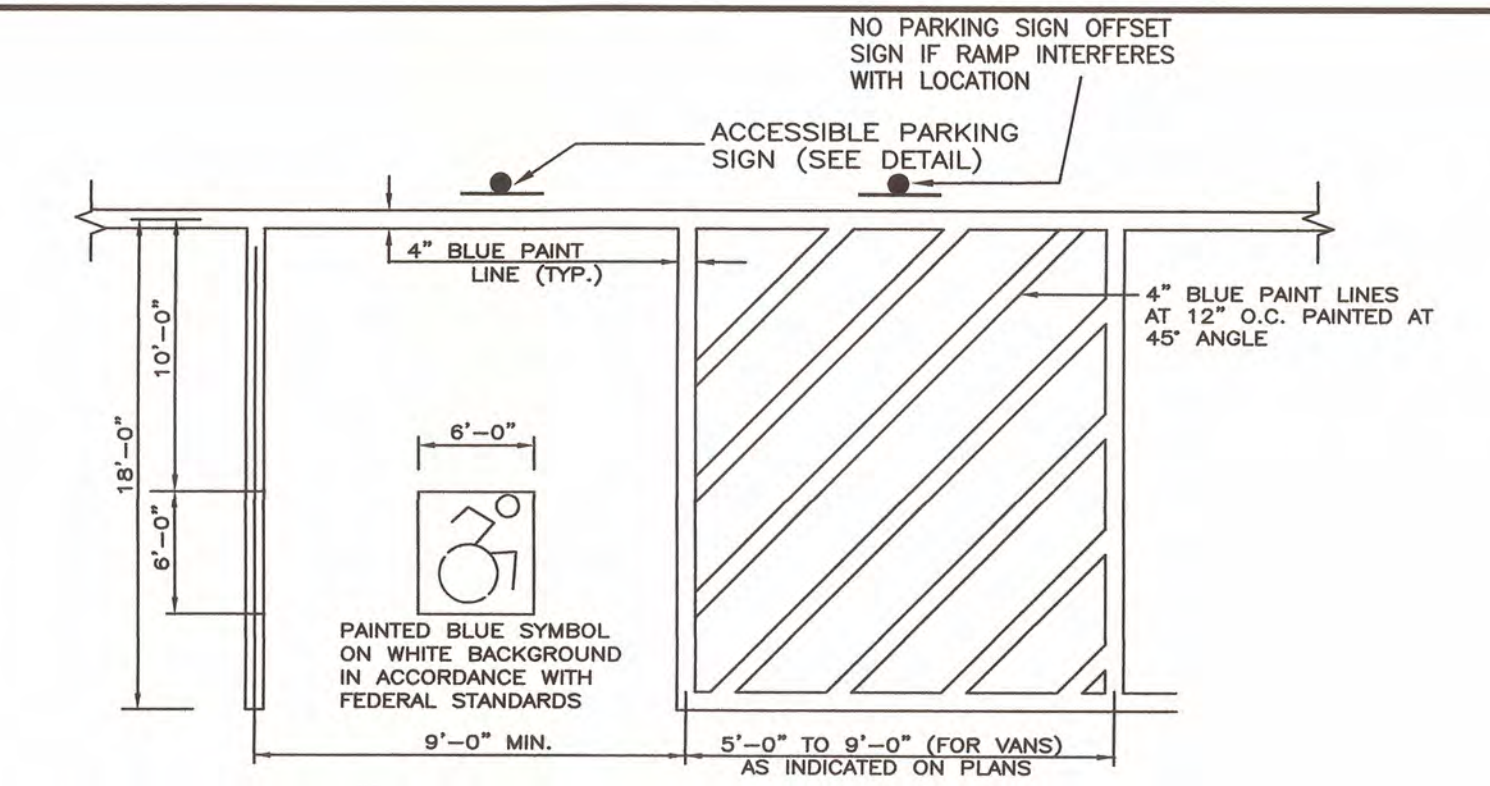
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3 TYPICAL LIGHT BASE



4 TYPICAL ACCESSIBLE PARKING SIGN NOT TO SCALE



6 ACCESSIBLE PARKING SPACE DETAIL NOT TO SCALE



7 R3-8 NO PARKING SIGN DETAIL NOT TO SCALE



CSX2 LED LED Area Luminaire

Specifications

EPA:	1.2 ft ² (0.11 m ²)
Length:	34-1/3" (87.1 cm)
Width:	18-1/2" (46.9 cm)
Height:	5-3/4" (14.3 cm)
Weight (max):	59 lbs (26.8 kg)



Catalog Number	
Notes	
Type	

Introduction

The Contour® Series luminaires offer traditional square dayforms with softened edges for a versatile look that complements many applications. The CSX2 combines the latest in LED technology with the familiar aesthetic of the Contour® Series for stylish, high-performance illumination that lasts. It is ideal for replacing traditional metal halide in area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

Ordering Information

EXAMPLE: CSX2 LED 120C 1000 40K TSM MVOLT SPA DDBXD

1 POLE MOUNTED LIGHT DETAIL

LITHONIA CSX2 SERIES LED LAMPS:
MODEL'S:
416 WATT LED LAMP LITHONIA MODEL# CSX2 LED 120C 1000 40K T4 MVOLT OR EQUAL

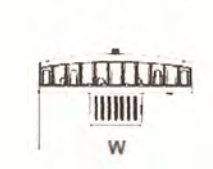


D-Series Size 1 LED Wall Luminaire

d-series

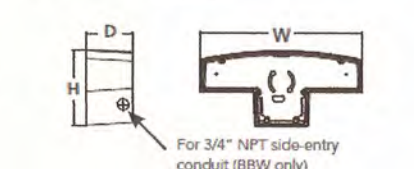
Specifications Luminaire

Width:	13-3/4" (34.9 cm)	Weight:	12 lbs (5.4 kg)
Depth:	10" (25.4 cm)	Height:	6-3/8" (16.2 cm)



Back Box (BBW, ELCW)

Width:	13-3/4" (34.9 cm)	Weight:	5 lbs (2.3 kg)
Depth:	4" (10.2 cm)	Height:	6-3/8" (16.2 cm)



Introduction

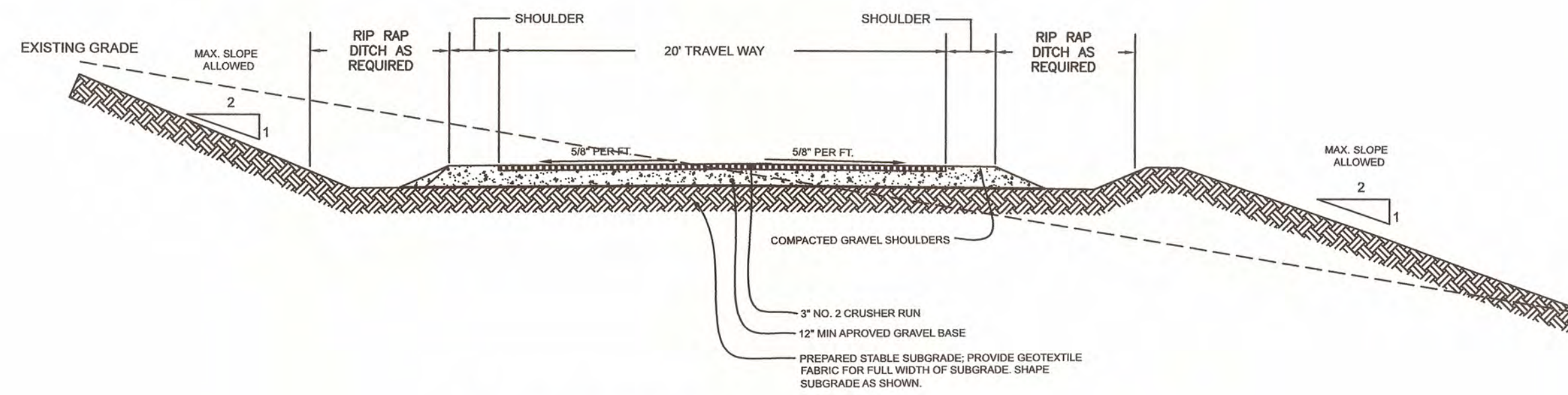
The D-Series Wall luminaire is a stylish, fully integrated LED solution for building-mount applications. It features a sleek, modern design and is carefully engineered to provide long-lasting, energy-efficient lighting with a variety of optical and control options for customized performance. With an expected service life of over 20 years of nighttime use and up to 74% in energy savings over comparable 250W metal halide luminaires, the D-Series Wall is a reliable, low-maintenance lighting solution that produces sites that are exceptionally illuminated.

Ordering Information

EXAMPLE: DSXW1 LED 20C 1000 40K T3M MVOLT DDBTXD

2 WALL MOUNTED LIGHT DETAIL (FIXTURE C)

LITHONIA CSXW LED WALL LUMINAIRE:
MODEL: 46 WATT LED LITHONIA MODEL# DSXW 1 LED 20C 700 50K T4M MVOLT HS OR EQUAL
REFERENCE ARCHITECTURAL PLANS FOR FINAL LIGHT FIXTURES ATTACHED TO BUILDINGS



5 TYPICAL ROAD SECTION NOT TO SCALE

MAP REVISION DATES		
DATE	REVISION	BY
01/15/2019	ADDED ROAD SECTION DETAIL	CC

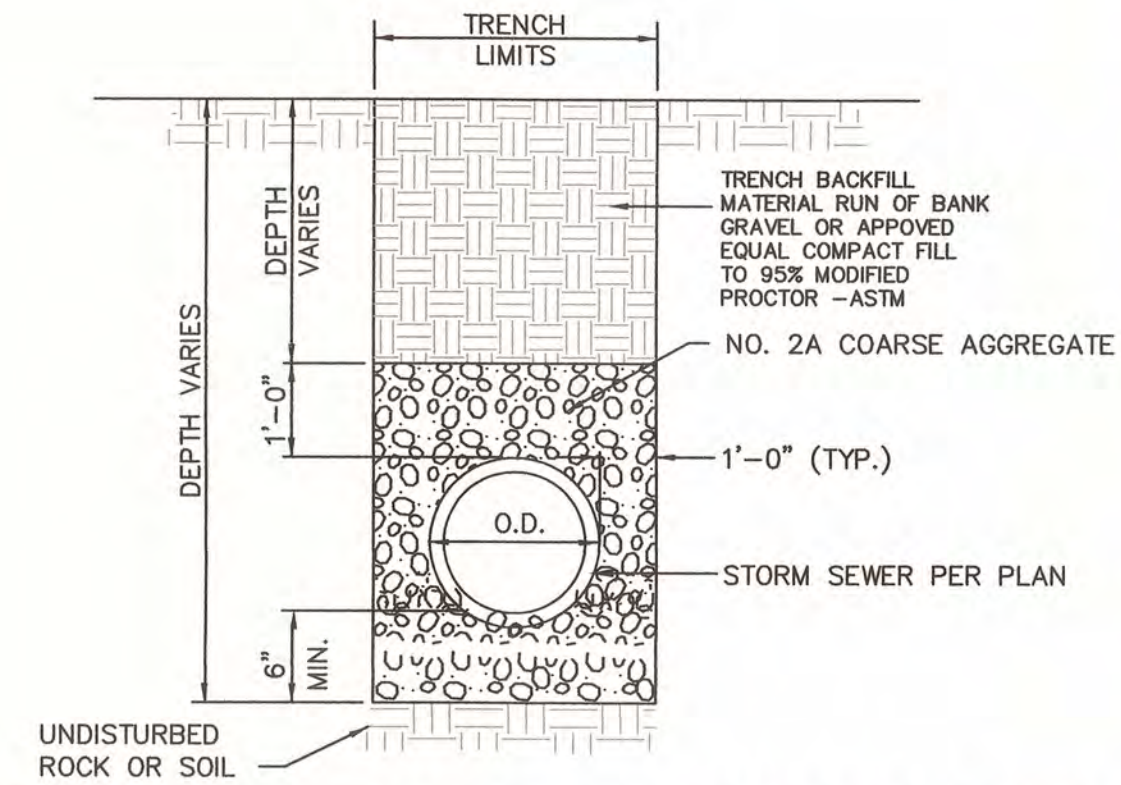
SITE DETAILS
FOR
850 ROUTE 28 LLC
TOWN OF KINGSTON
ULSTER COUNTY ~ NEW YORK

Scale: 1" = 20'
JUNE 8, 2018

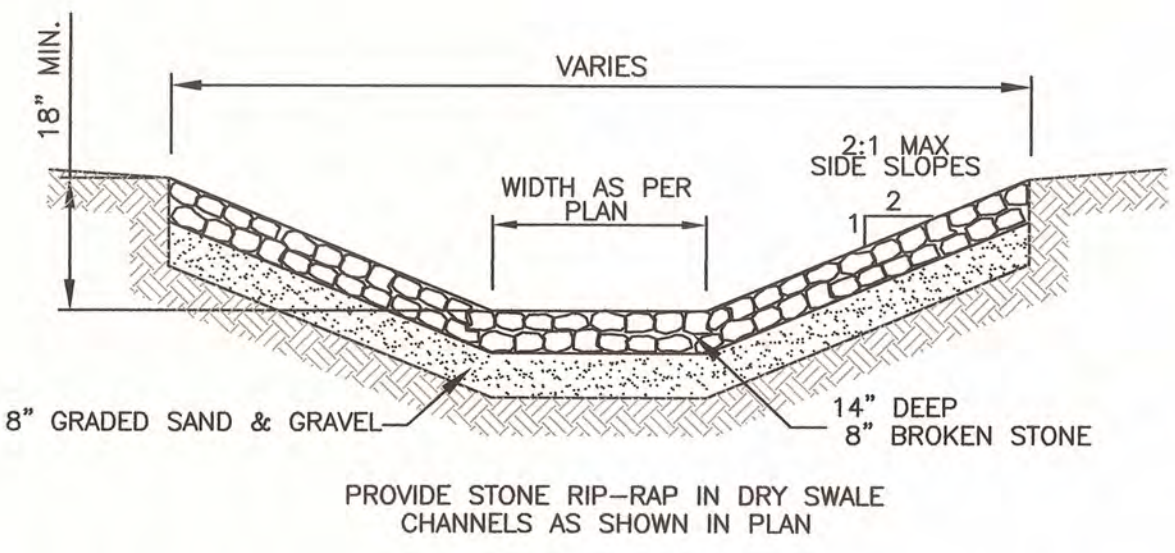
MEDENBACH & EGGERS
CIVIL ENGINEERING & LAND SURVEYING, P.C.
STONE RIDGE, NEW YORK (518) 887-0047

[Signature]
BARRY MEDENBACH, P.E.
NEW YORK LIC. NO. 06897

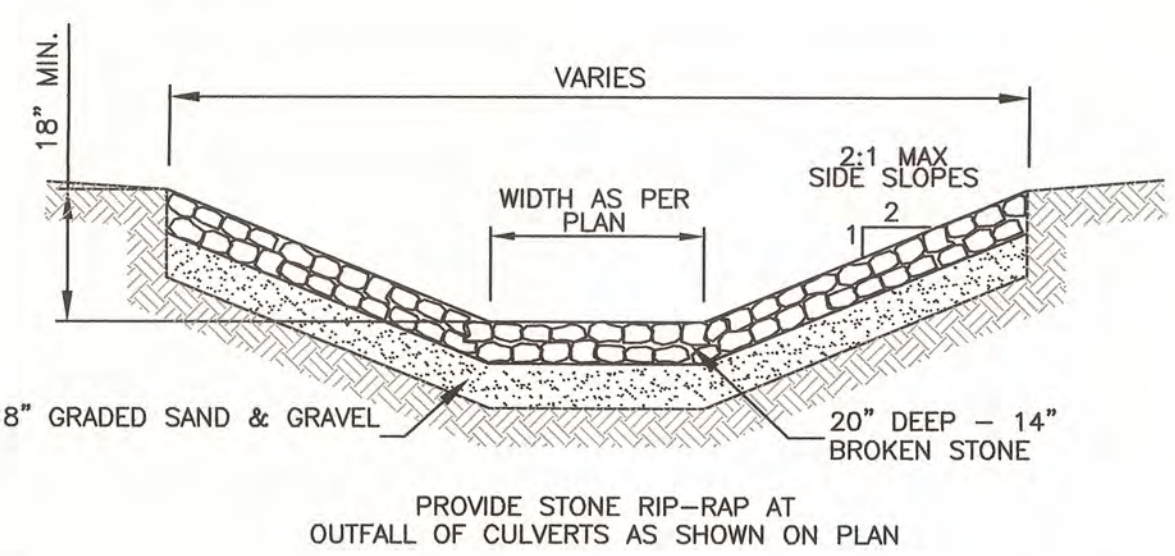
D-1
E17 064
SHEET 13 OF 20



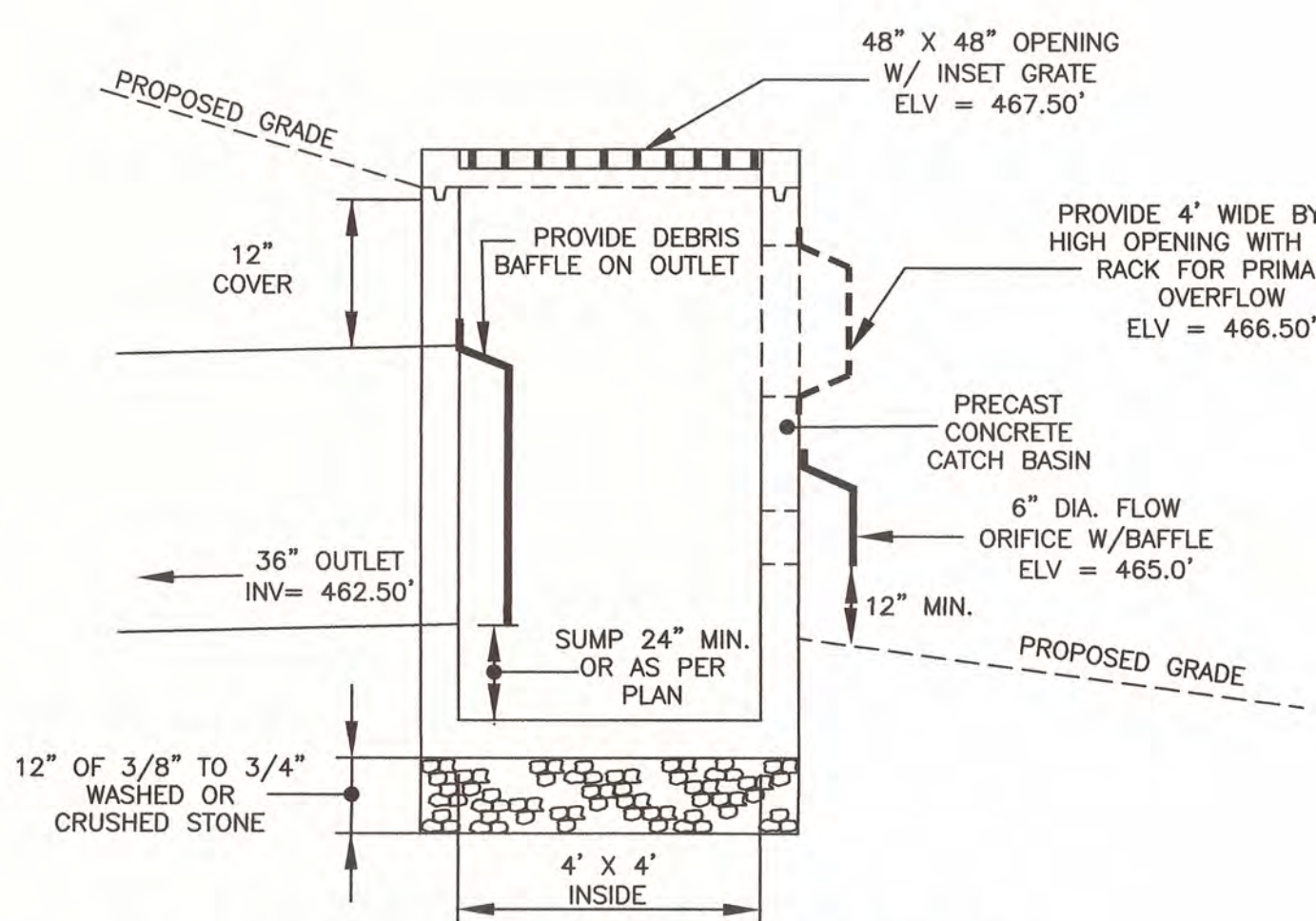
1 TYPICAL DRAINAGE TRENCH DETAIL
NOT TO SCALE



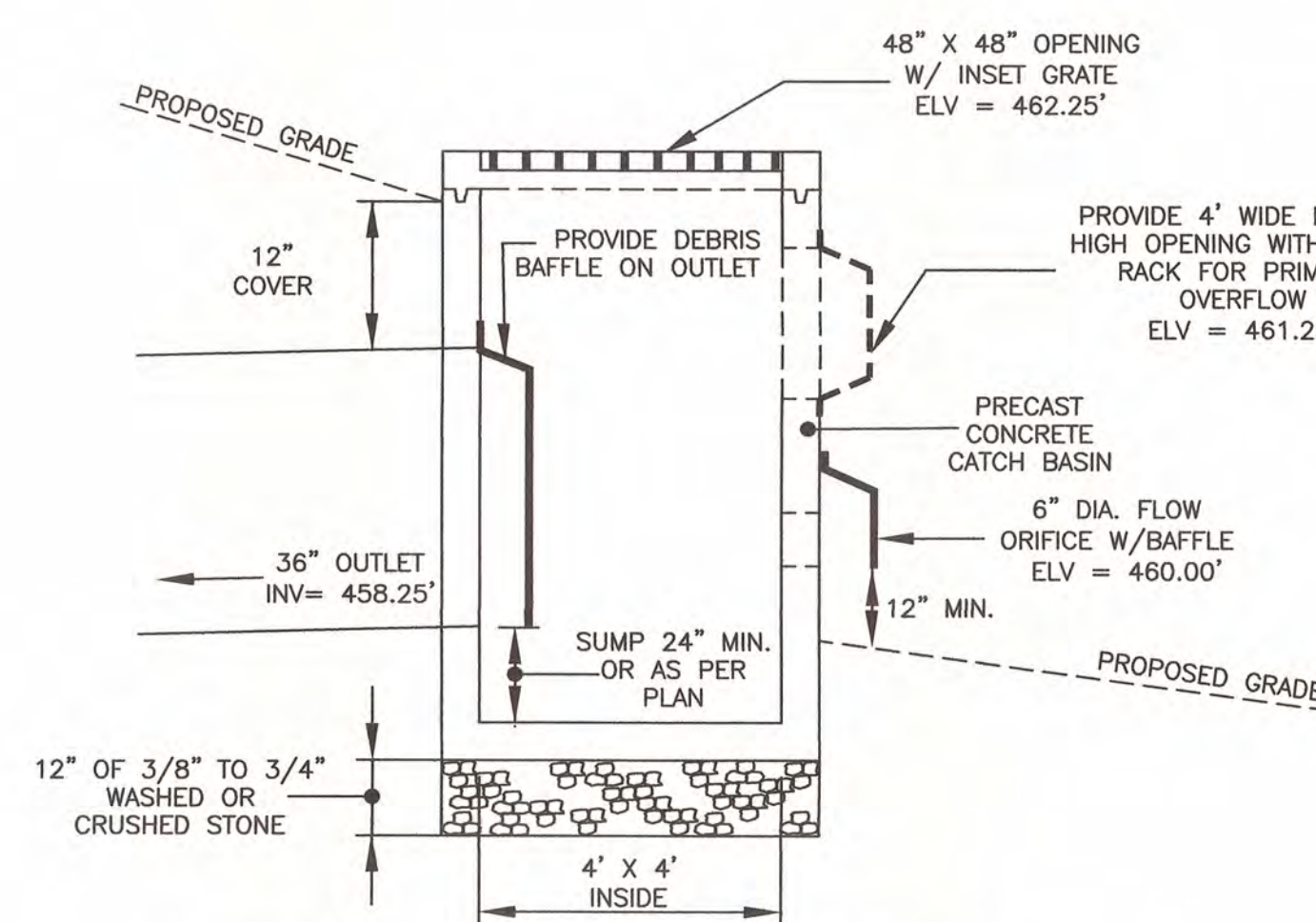
2 RIP RAP PROTECTION FOR DRY SWALES
NOT TO SCALE



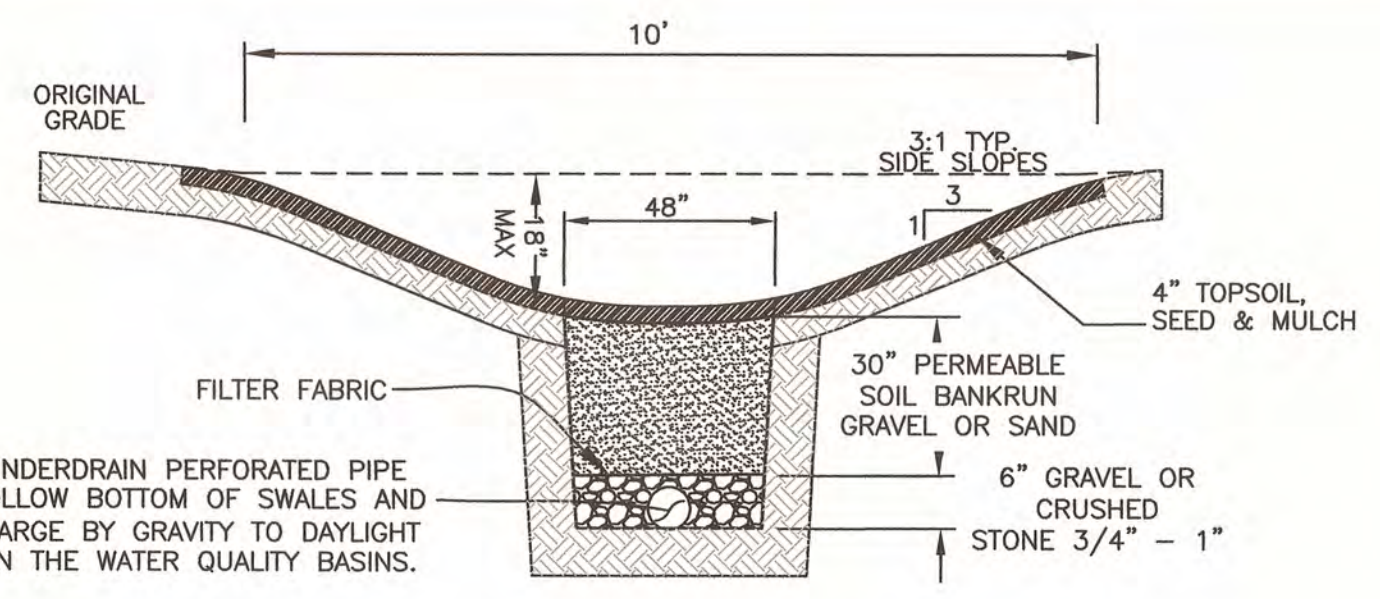
2 RIP RAP PROTECTION FOR WQB OUTLETS
NOT TO SCALE



5 WQB OUTLET STRUCTURE #1
SCALE: N.T.S.



6 WQB OUTLET STRUCTURE #2
SCALE: N.T.S.

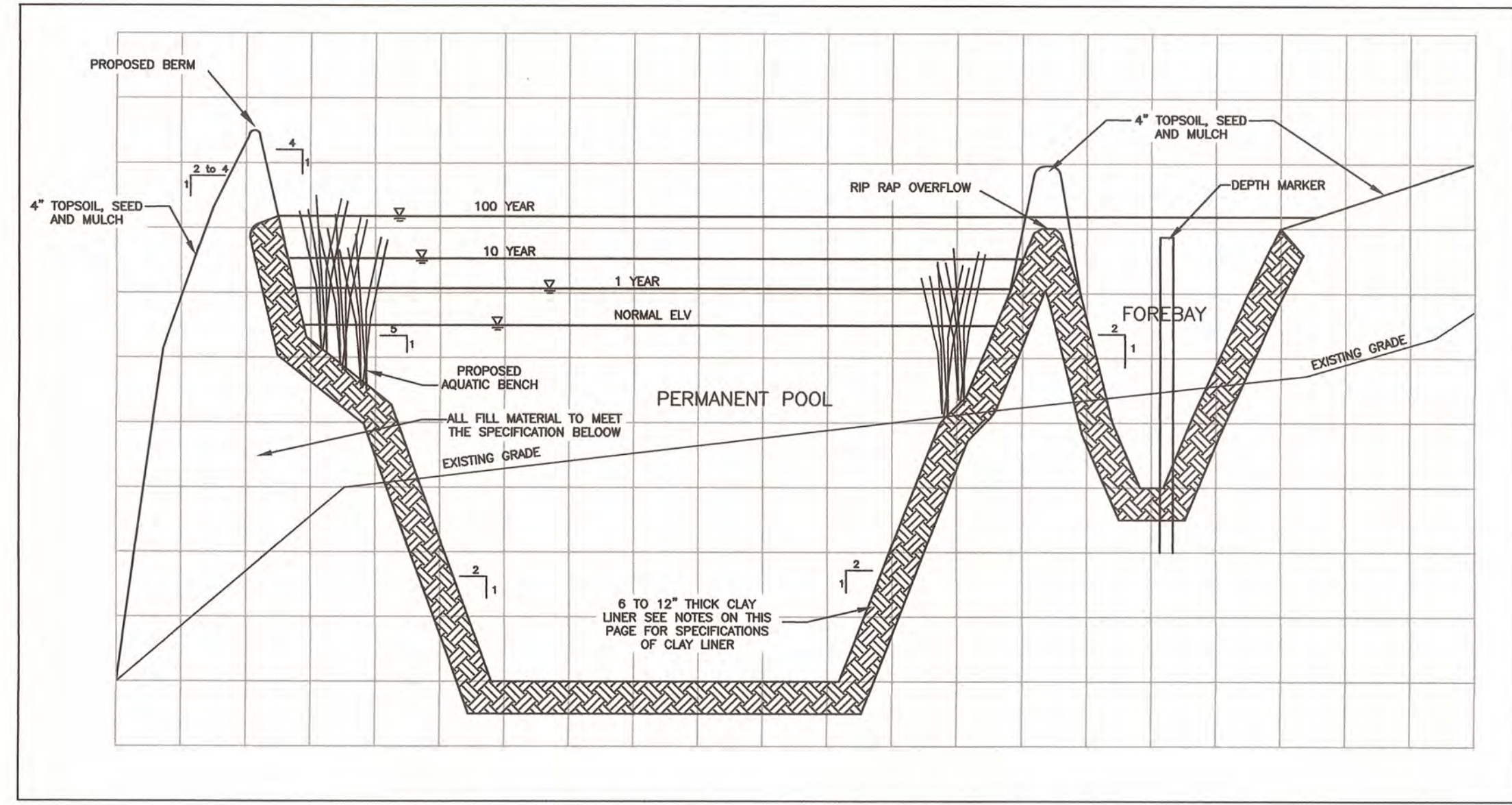


3 DRY SWALE TYPICAL-SECTION
NOT TO SCALE

SEEDING MIX FOR DRY SWALES and WATER QUALITY BASINS

APPLICATION	SPECIES	% PURE LIVE SEED	APPLICATION RATE	FERTILIZER	LIMING RATE	SEEDING DATE
TEMPORARY	ANNUAL RYE	88.2%	10 LBS./1000 S.Y.	5-5-5 AT 207 LBS./1000 S.Y.	413 LBS./1000 S.Y.	3/15 TO 10/15 AND
PERMANENT	PERENNIAL RYE	88.2%	4 LBS./1000 S.Y.	SEE NOTE 1 BELOW	800 LBS./1000 S.Y.	3/15 TO 6/1
	KENTUCKY BLUE GRASS MIX* CREEPING RED FESCUE	78.4%	6 LBS./1000 S.Y.	SEE NOTE 1 BELOW	800 LBS./1000 S.Y.	9/1 TO 10/15 AND
PERMANENT	TALL FESCUE (VAR. KENTUCKY 31) BIRDFOOT TREFOL MIX REDTOP	83.3%	11 LBS./1000 S.Y.	SEE NOTE 1 BELOW	800 LBS./1000 S.Y.	4/8/10/15/5
	TALL FESCUE (VAR. KENTUCKY 31) BIRDFOOT TREFOL MIX REDTOP	83.5%	7.5 LBS./1000 S.Y.	SEE NOTE 1 BELOW	800 LBS./1000 S.Y.	4/8/10/15/5
PERMANENT	TALL FESCUE (VAR. KENTUCKY 31) BIRDFOOT TREFOL MIX REDTOP	78.4%	2.0 LBS./1000 S.Y.	SEE NOTE 1 BELOW	800 LBS./1000 S.Y.	4/8/10/15/5
	TALL FESCUE (VAR. KENTUCKY 31) BIRDFOOT TREFOL MIX REDTOP	73.6%	1.0 LBS./1000 S.Y.	SEE NOTE 1 BELOW	800 LBS./1000 S.Y.	4/8/10/15/5

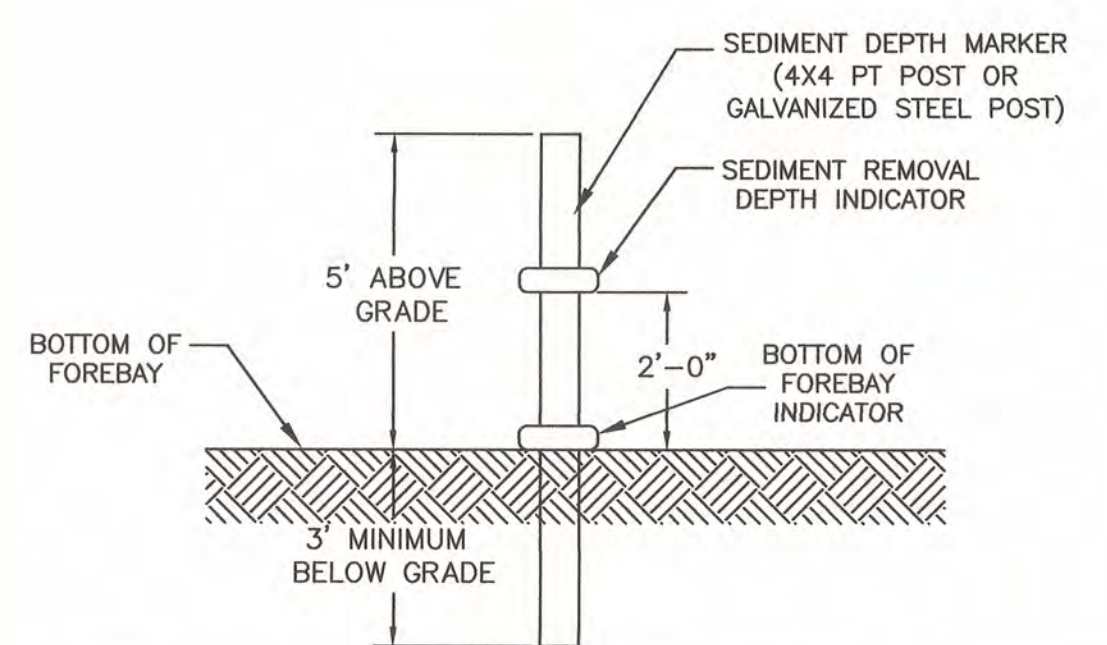
- FERTILIZER SHALL BE APPLIED IN ACCORDANCE WITH A SOIL TEST. IN THE ABSENCE OF A SOIL TEST, FERTILIZER SHALL BE APPLIED AS FOLLOWS:
 - 10-20-20 ANALYSIS COMMERCIAL FERTILIZER AT 140 LBS./1000 S.Y.
 - 38-0-0 UREA FORM FERTILIZER AT 50 LBS./1000 S.Y.
 - 32-0-0 TO 38-0-0 SULFUR COATED UREA FERTILIZER AT 59-50 LBS./1000 S.Y.
 - 31-0-0 ISDU FERTILIZER AT 61 LBS./1000 S.Y.
- ALL SEEDED AREAS SHALL BE MULCHED WITH HAY OR STRAW APPLIED AT A RATE OF 6000 LBS./AC. (1240 LBS./1000 S.Y.). MULCH TO BE ANCHORED WITH WOOD CELLULOSE FIBER AT 750 LBS./AC. OR EQUAL.
- ALL AREAS RECEIVING SEEDING SHALL HAVE A MINIMUM OF 4" OF ORGANIC TOPSOIL.
- BLUEGRASS MIX: A COMBINATION OF CERTIFIED VARIETIES EACH AT 25% OR LESS OF MIX.
 - MINIMUM 20% HARVESEED AND 60% NORMAL SPROUTS.



4 TYPICAL WATER QUALITY BASIN SECTION
NOT TO SCALE

Notes For Water Quality Basins (Stormwater Ponds)

- STORM WATER QUALITY BASIN FILL MATERIAL SPECIFICATIONS**
All suitable fill material shall be placed in layers not exceeding twelve (12) inches in depth, (loose measure), and shall be thoroughly tamped and compacted to a minimum density of 95% standard compacting test. The fill material shall be free of roots, stumps, wood, rubbish, stones greater than 6", frozen or other objectionable materials. Fill material for the center of the embankment, and cut off trench shall conform to Unified Soil Classification GC, SC, CH or CL and must have at least 30% passing the #200 sieve.
- STORM WATER QUALITY BASIN CLAY LINER SPECIFICATIONS**
A 6" to 12" compacted clay liner shall be provided at the bottom of the practice and meet the following criteria:
Minimum 50% passing the #200 sieve
Permeability: 1 x 10⁻⁵ cm/sec (ASTM D-2434)
Plasticity Index of Clay: Not less than 15% (ASTM D-423/424)
Liquid Limit of Clay: Not less than 30% (ASTM D-2216)
Clay Particles Passing: Not less than 30% (ASTM D-422)
Clay Compaction: 95% of standard proctor density (ASTM D-2216)



6 SEDIMENT DEPTH MARKER
SCALE: N.T.S.

General Utility Notes and Specifications:

- General Provisions:**
- All construction activities shall be in compliance with municipal, county state and federal regulations.
 - The protection of adjacent properties or areas on site that are not to be disturbed during construction, shall be the responsibility of the contractor.
 - Any conditions encountered in the field differing from those shown hereon, shall be reported to the design engineer before construction is to proceed.
 - Exploratory excavations shall be performed as needed at all utility connection locations by the contractor to verify existing conditions prior to work. Before connecting to existing utilities, verify existing utility inverts and notify the engineer if any deviation from the plan is required.
 - Where underground or overhead obstructions are encountered in the work, the contractor shall assume all costs for direct or indirect injury to them. Any valve box, valve pit, water service, water main, catch basin, manhole etc. whether or not shown on the drawings shall be protected from damage.
 - The contractor shall maintain service for all existing utilities until no longer necessary.
 - All trenching and shoring shall adhere to OSHA guidelines.
 - Contractor shall comply with all the requirements of the SPDES General Permit for Stormwater Discharges from Construction Activity - GP-0-15-002. A current copy of the Stormwater Pollution Prevention Plan (SWPPP) shall be kept on site at all times. Contractor is responsible for conducting weekly inspections (must be qualified by NYSDEC) or retaining a qualified inspector such as the design engineer to perform such inspections.

Excavation and Earthwork:

- Prior to site disturbance the contractor shall install required erosion & sediment control measures.
- Strip all topsoil prior to commencing earthwork operations. Topsoil may be stored and reused in lawn, dry swales and planting areas only.
- Excavation shall be carried to the lines, grades and slopes shown on the approved plans. All final earthwork shall be smoothly and evenly blended into existing conditions.
- Remove all vegetation, trees, stumps, grasses, organic soils, debris and deleterious materials from excavated soils to be reused as fill onsite.
- Where unstable or unsuitable material is encountered at the prescribed bottom grade of the trenches it shall be removed.
- Contractor shall be responsible for dewatering utility trenches and excavations and for the maintenance of surface drainage during the course of the work.
- After final grading the contractor shall reapply stockpiled top soil on all lawn and planting areas. Topsoil shall be evenly spread a minimum of 4 (four) inches over all planting areas seeded and mulched in lawn areas or planted as per landscaping plan in planting beds. The contractor shall restore lawns, driveways and other disturbed areas to at least as good a condition as before being disturbed.

Utility Bedding and Backfill:

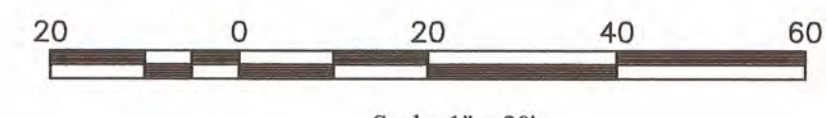
- Selected bedding (as specified on the utility typical trench sections hereon) shall be provided for the construction of pipe foundations at those locations where the foundations or excavated material, or any portion thereof deemed to be unsuitable for supporting the pipe or structure, or for back filling the cover portion of the trenches to a level one foot above the pipe, or where excavated material consist of a predominance of large stone, boulders or rock which is not suitable for placing in the trench. Certified sieve analysis shall be submitted from the supplier for the engineer's review prior to use.
- All suitable back fill material shall be placed in layers not exceeding twelve (12) inches in depth, (loose measure), and shall be thoroughly tamped and compacted to a minimum density of 95% standard AASHTO-T99 (ASTM-D698, as amended) compacting test. Compacting equipment shall be of a suitable type for the various back filling operations.

Drainage:

- All storm sewer pipe shall be smooth interior HDPE pipe unless noted otherwise.
- HDPE end sections shall be provided on all drainage pipe inlets or outlets not connected to catch basins or other drainage structures. All outlets shall also be stabilized with rip-rap as per plans.
- All concrete chambers shall be pre cast concrete to the specifications and dimensions shown hereon. Frames and grates shall be gray iron or ductile iron. Gray iron shall conform with ASTM A 48, Class 30b and ductile iron shall conform with ASTM A 536 and be of a grade appropriate to its intended use to the dimensions and specifications as shown hereon. Any structures subject to vehicle loads shall be able to withstand an H20 loading. Shop drawings shall be submitted to the design engineer for approval prior to construction.
- The gutters and ditches shall be kept open at all times for surface drainage. No damming or ponding of water. In gutters or other waterways will be permitted except where the engineer shall consider it necessary.
- The transport of soils to the drainage system shall be avoided during and after construction.
- All exposed soils shall be stabilized with vegetation, stone or as directed by the engineer.
- Methods used to control soil erosion and sediment control shall be in accordance with the approved soil erosion and sediment control plan or as directed by the engineer. Contractor shall comply with all the requirements of the SPDES General Permit for Stormwater Discharges from Construction Activity - GP-0-15-002. A current copy of the Stormwater Pollution Prevention Plan (SWPPP) shall be kept on site at all times. Contractor is responsible for conducting weekly inspections (must be qualified by NYSDEC) or retaining a qualified inspector such as the design engineer to perform such inspections.

MAP REVISION DATES		
DATE	REVISION	BY
1/31/2019	ADDED WATER QUALITY BASIN OUTLET DETAILS	CC
3/05/2019	REVISED WATER QUALITY BASIN OUTLET DETAILS	CC
5/14/2019	ADDED SEDIMENT MARKER DETAIL AND GRASS NOTES	CC

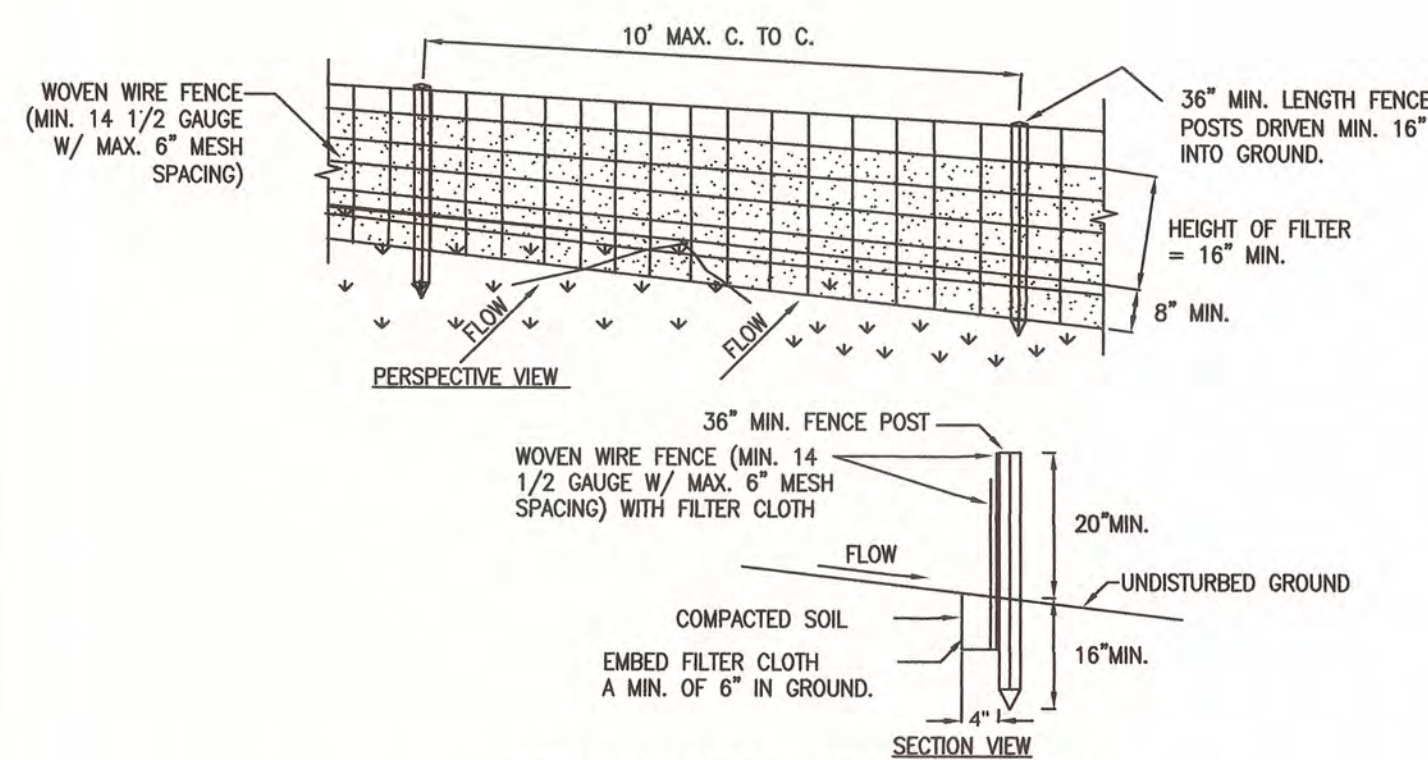
DRAINAGE DETAILS
FOR
850 ROUTE 28 LLC
TOWN OF KINGSTON
ULSTER COUNTY - NEW YORK



Scale: 1" = 20'
JUNE 8, 2018

MEDENBACH & EGGERS
CIVIL ENGINEERING & LAND SURVEYING, P.C.
STONE BROOK, NEW YORK (609) 887-0047

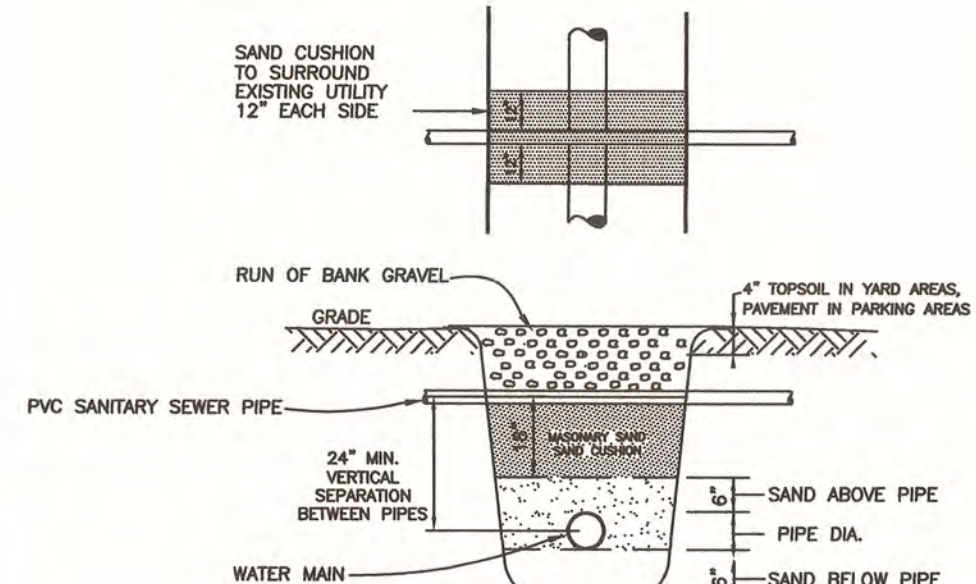
Barbara Medenbach, P.E.
BARBARA MEDENBACH, P.E.
NEW YORK STATE NO. 69162
PROFESSIONAL ENGINEER



CONSTRUCTION SPECIFICATIONS

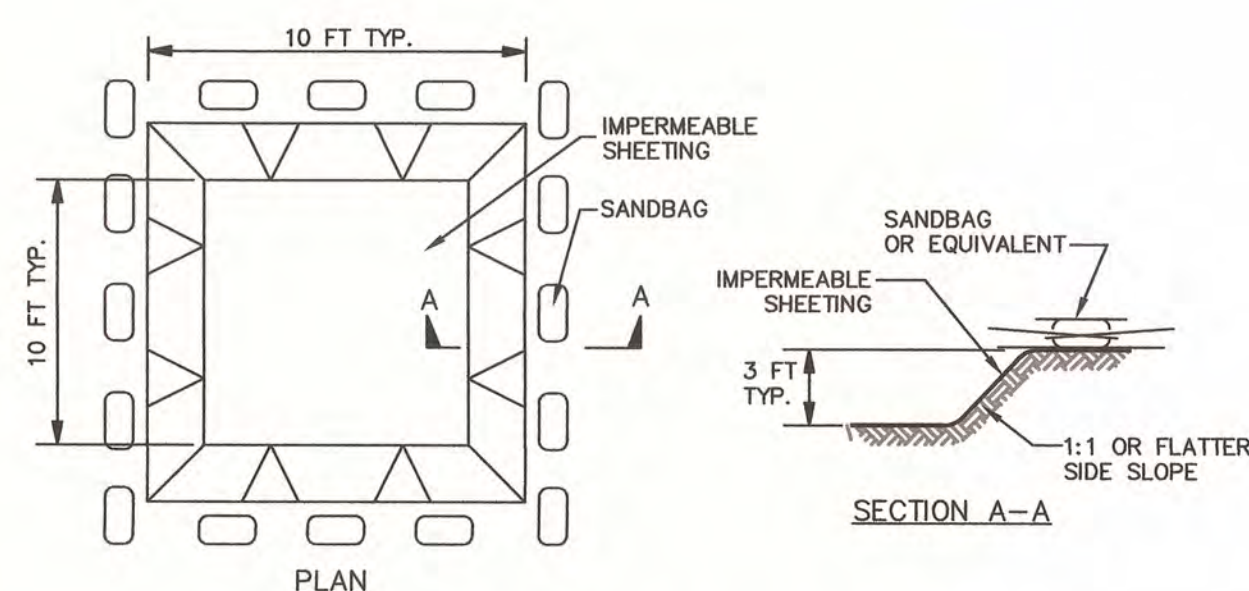
- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
- FILTER CLOTH TO BE TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 12 1/2 GAUGE, 6" 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, STABILINKA T140N, OR APPROVED EQUIVALENT.
- PREFABRICATED UNITS SHALL BE GEOFAB, ENVROFENCE, OR APPROVED EQUIVALENT.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

1 SILT FENCE TYPICAL DETAIL
NOT TO SCALE



- TRENCH TO BE BRACED AS REQ'D. NY OSHA
- NOTE: WATER AND SEWER LINE CROSSINGS MUST MAINTAIN A 2 FT. VERTICAL SEPARATION.
- NOTE: HORIZONTAL SEPARATION SHALL BE 10 FEET FROM WATER AND SEWER LINE.

SW 4 TYPICAL SEWER AND WATER CROSSING DETAIL
NOT TO SCALE

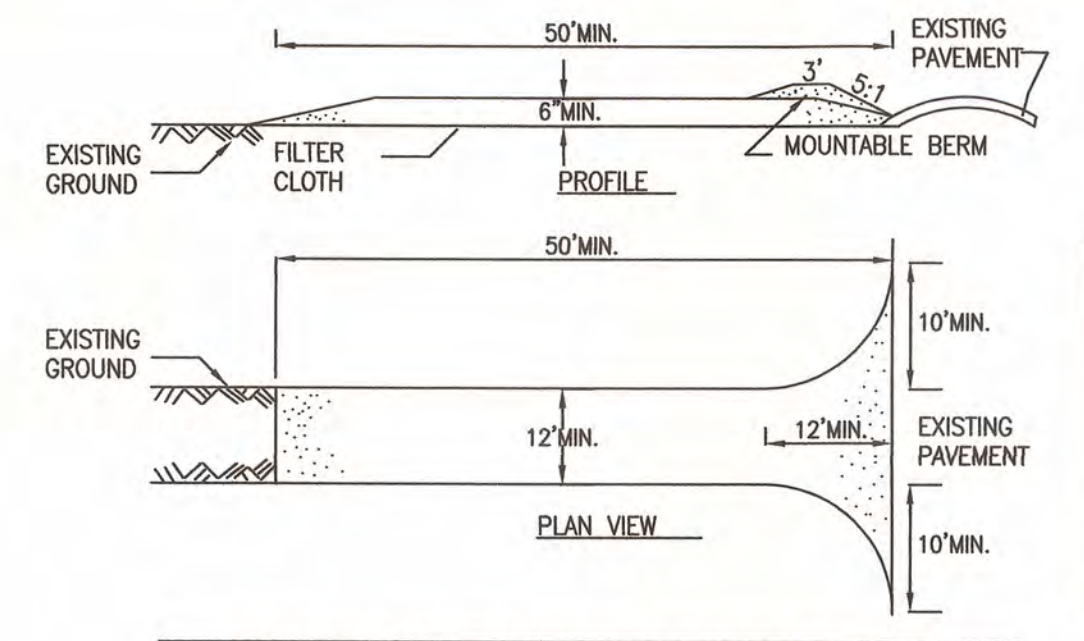


EXCAVATED WASHOUT STRUCTURE

CONSTRUCTION SPECIFICATIONS

- DESIGNATED TEMPORARY, BELOW GROUND CONCRETE WASHOUT FACILITIES WILL BE CONSTRUCTED AS SHOWN ABOVE. WASHOUTS WILL BE CENTRALLY LOCATED AT THE DISCRETION OF THE INDIVIDUALS WHO MANAGE DAY TO DAY CONSTRUCTION ACTIVITIES. WASHOUTS SHALL HAVE A MINIMUM LENGTH AND WIDTH OF 10 FEET BUT MUST HAVE SUFFICIENT VOLUME TO CONTAIN ALL LIQUID CONCRETE WASTES GENERATED FROM WASHOUT OPERATIONS. THE WASHOUT AREAS WILL BE LINED WITH PLASTIC SHEETING AT LEAST 10 MILS THICK AND FREE OF ANY HOLES OR TEARS. SIGNS WILL BE POSTED MARKING THE LOCATION OF THE WASHOUT AREAS.
- TEMPORARY CONCRETE WASHOUT FACILITIES WILL BE LOCATED A MINIMUM OF (50 FEET) FROM DRAIN INLETS.
- KEEP THE WASHOUT AREAS WILL BE INSPECTED DAILY TO ENSURE THAT ALL CONCRETE WASTING IS BEING DISCHARGED INTO THE WASHOUT AREA, NO LEAKS OR TEARS ARE PRESENT, AND TO IDENTIFY WHEN CONCRETE WASTES NEED TO BE REMOVED. THE WASHOUT AREAS WILL BE CLEANED OUT ONCE THE AREA IS FILLED TO 75 PERCENT OF THE HOLDING CAPACITY. ONCE THE AREA'S HOLDING CAPACITY HAS BEEN REACHED THE CONCRETE WASTES WILL BE ALLOWED TO HARDEN , THE CONCRETE WILL BE BROKEN UP, REMOVED, AND DISPOSED IN ACCORDANCE WITH LOCAL REGULATIONS. THE PLASTIC SHEET WILL BE REPLACED IF TEARS OCCUR DURING REMOVAL OF CONCRETE WASTES FROM THE WASHOUT AREA.

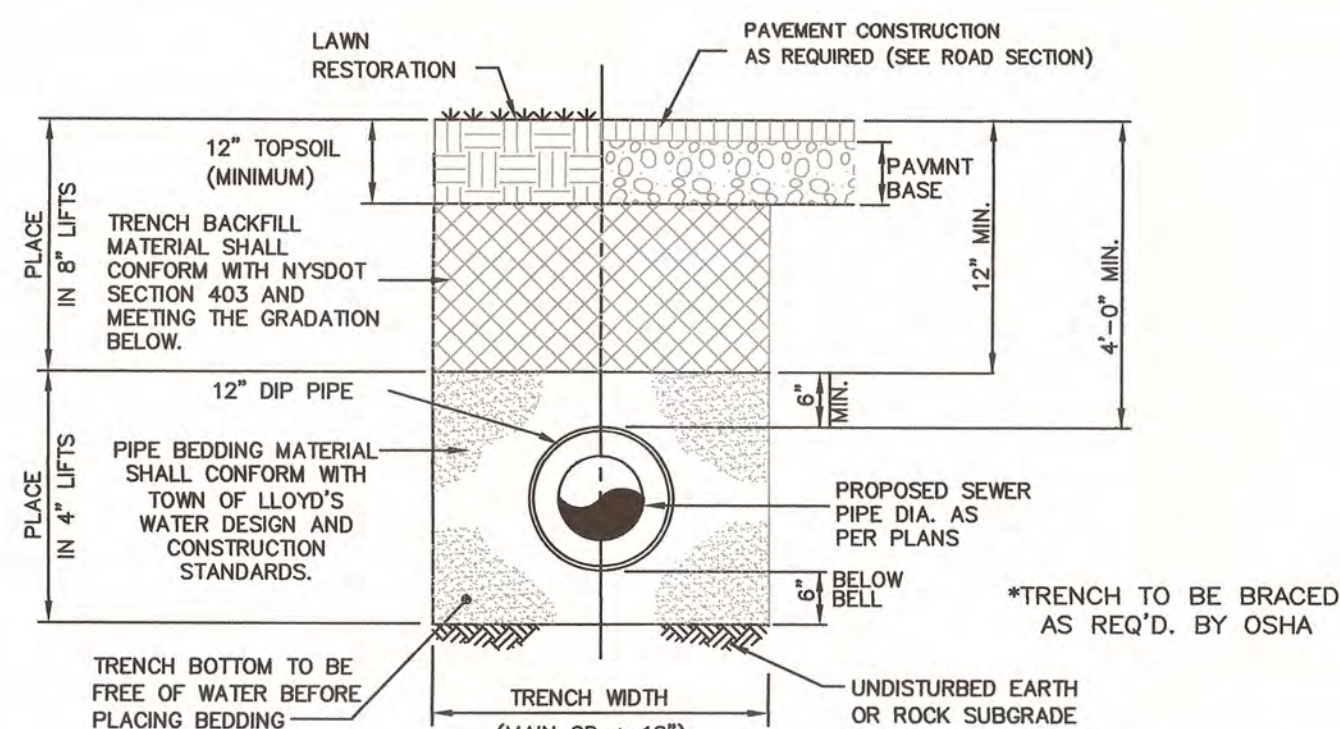
2 CONCRETE WASHOUT DETAIL
NOT TO SCALE



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.

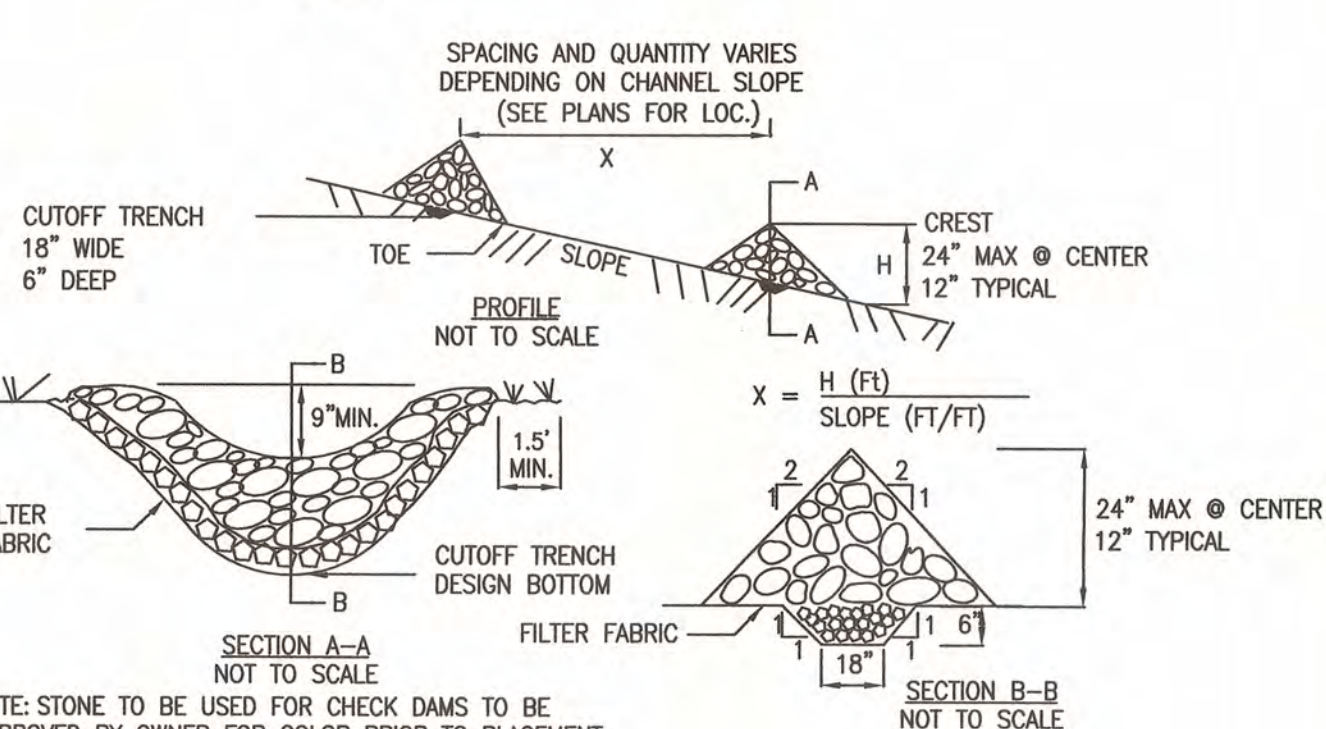
3 STABILIZED CONSTRUCTION ENTRANCE DETAIL
NOT TO SCALE



* NOTE: SEWERLINES WITHIN 25' FEET FROM ANY WATER BODY SHALL BE INCASED WITHIN A 12" DIP PIPE UNTIL SEPARATION HAS BEEN ACHIEVED.

ENCASED SEWER LINE DETAIL

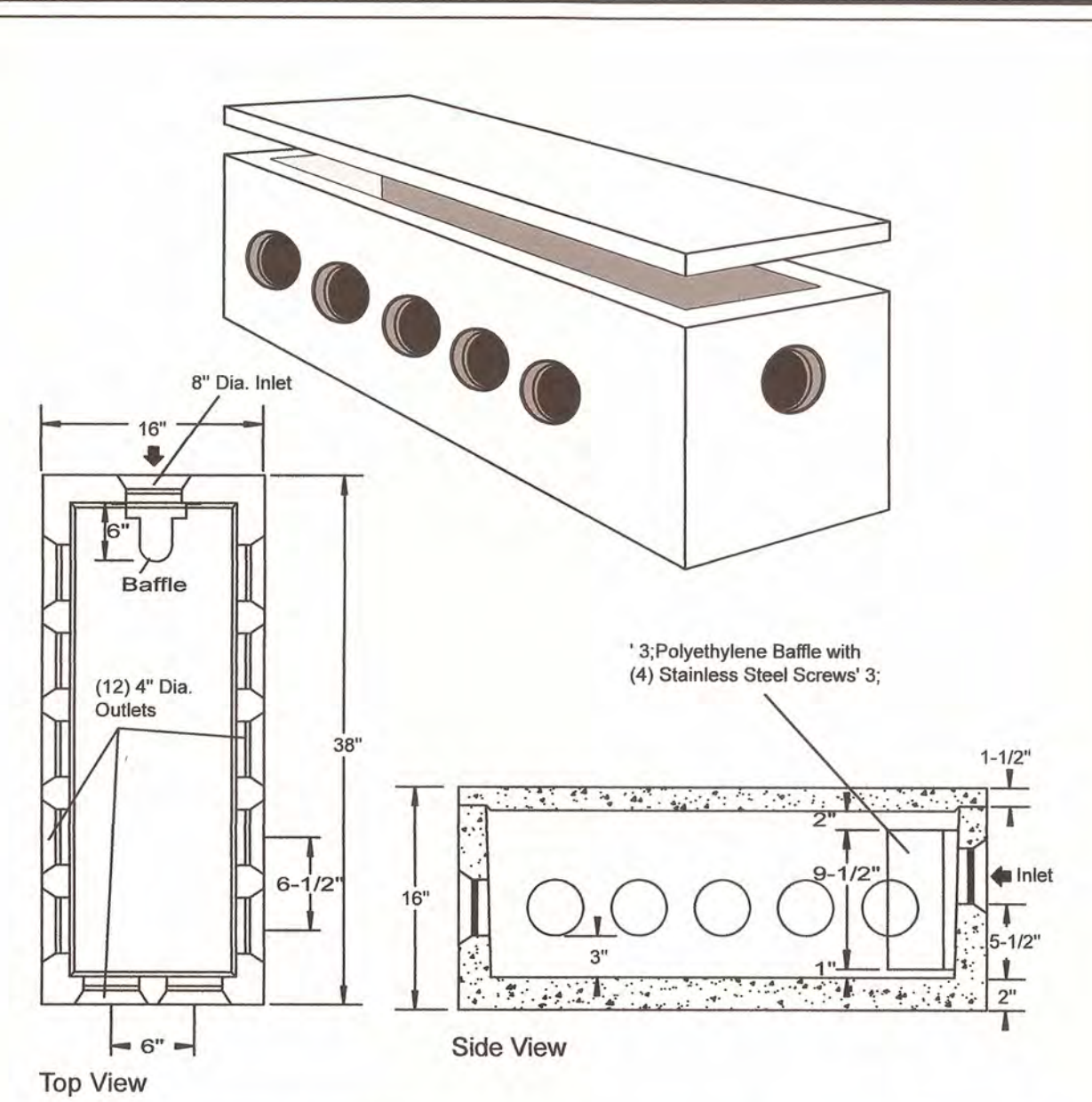
NOT TO SCALE



CONSTRUCTION SPECIFICATIONS

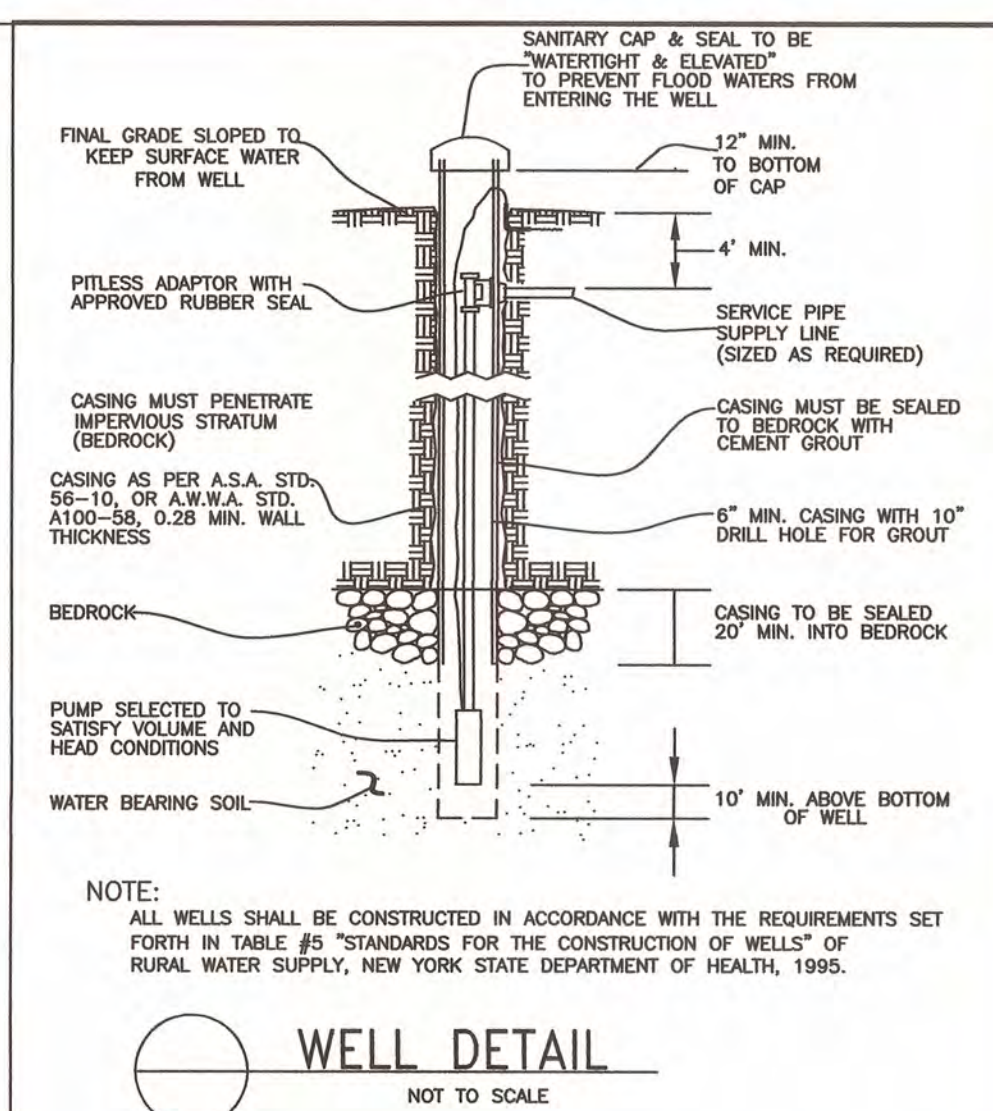
- STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES, GRADES AND LOCATIONS SHOWN IN THE PLAN.
- SET SPACING OF CHECK DAMS TO ASSUME THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT OR BELOW THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM.
- EXTEND THE STONE A MINIMUM OF 1.5 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.

4 ROCK CHECK DAM TYPICAL DETAIL
NOT TO SCALE



SPECIFICATIONS	PRECAST DISTRIBUTION BOXES 12 OUTLETS W/BAFFLE
Concrete Min. Strength: 4,000 psi at 28 days	Woodard's Concrete Products, Inc. 629 Lybolt Road, Bullville, NY 10915 (845) 361-3471 / Fax 361-1050 Page 6B 1/12/05
Reinforcement: Fiber, 10ga. wire mesh	
Air Entrainment: 5%	
Pipe Connection: Polylok Seal (patented)	
Load Rating: 300 psf	
Weight = 325 lbs	

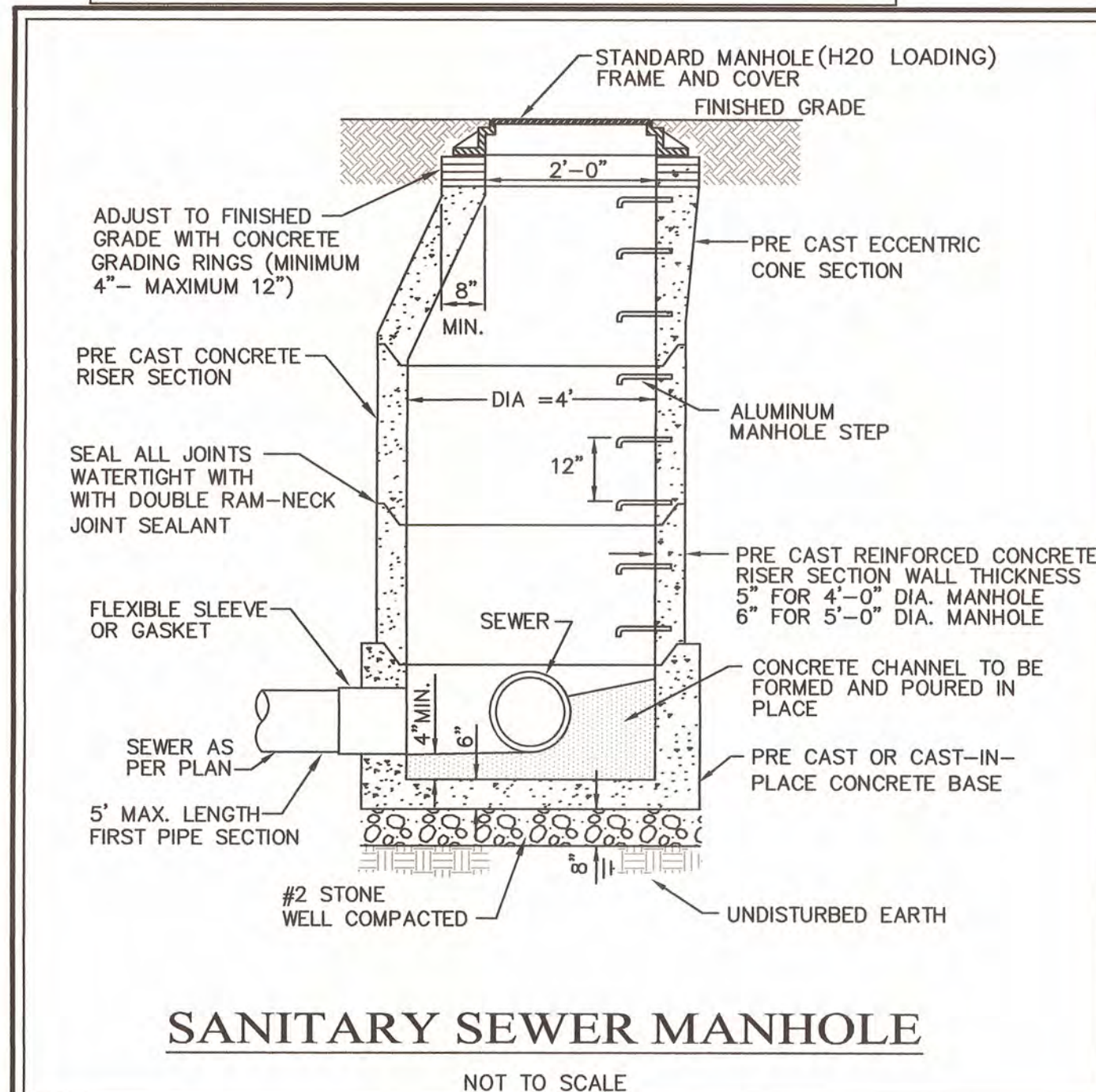
www.woodardsconcrete.com OR EQUAL



NOTE: ALL WELLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH IN TABLE #5 "STANDARDS FOR THE CONSTRUCTION OF WELLS" OF RURAL WATER SUPPLY, NEW YORK STATE DEPARTMENT OF HEALTH, 1995.

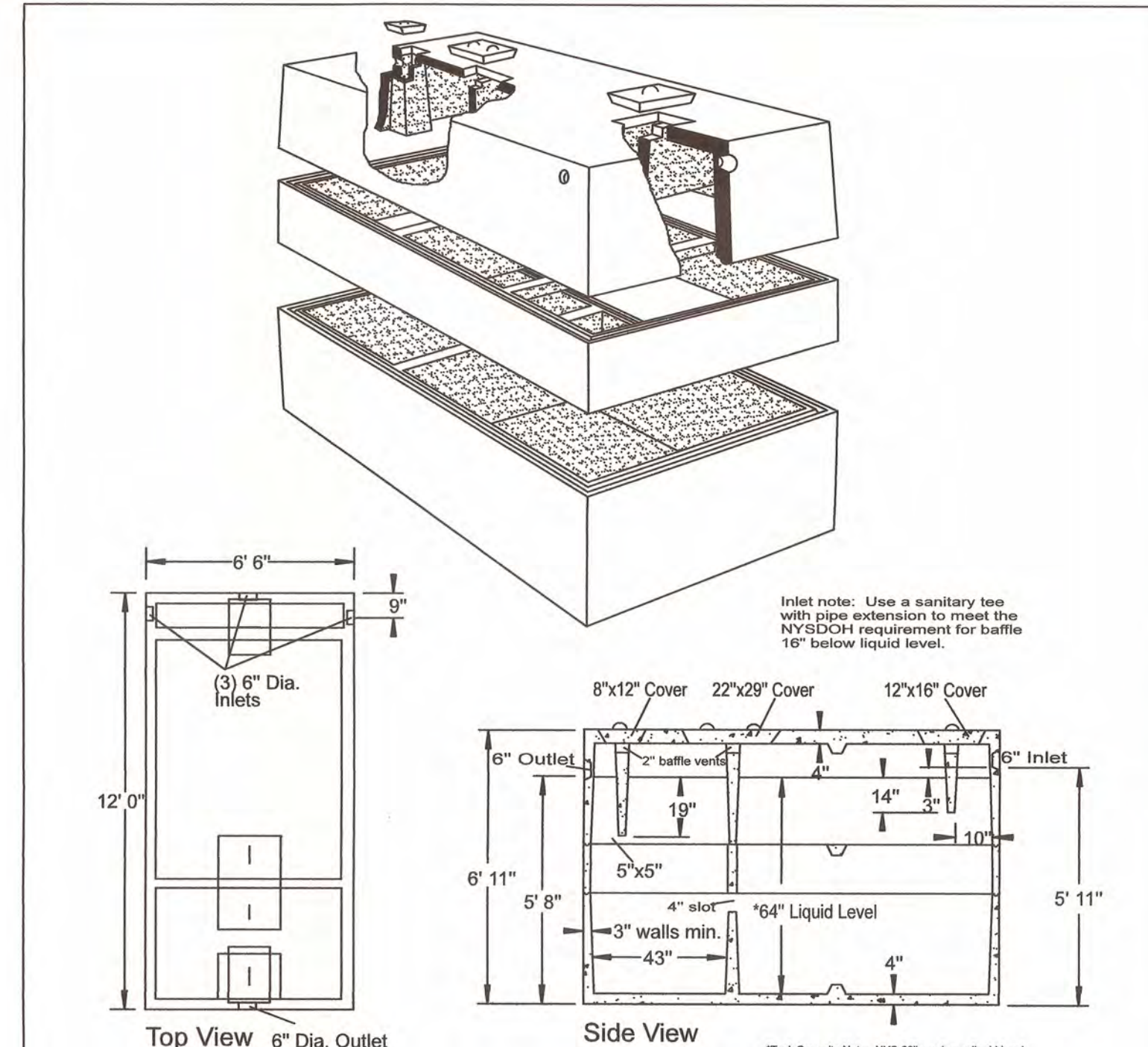
WELL DETAIL

NOT TO SCALE



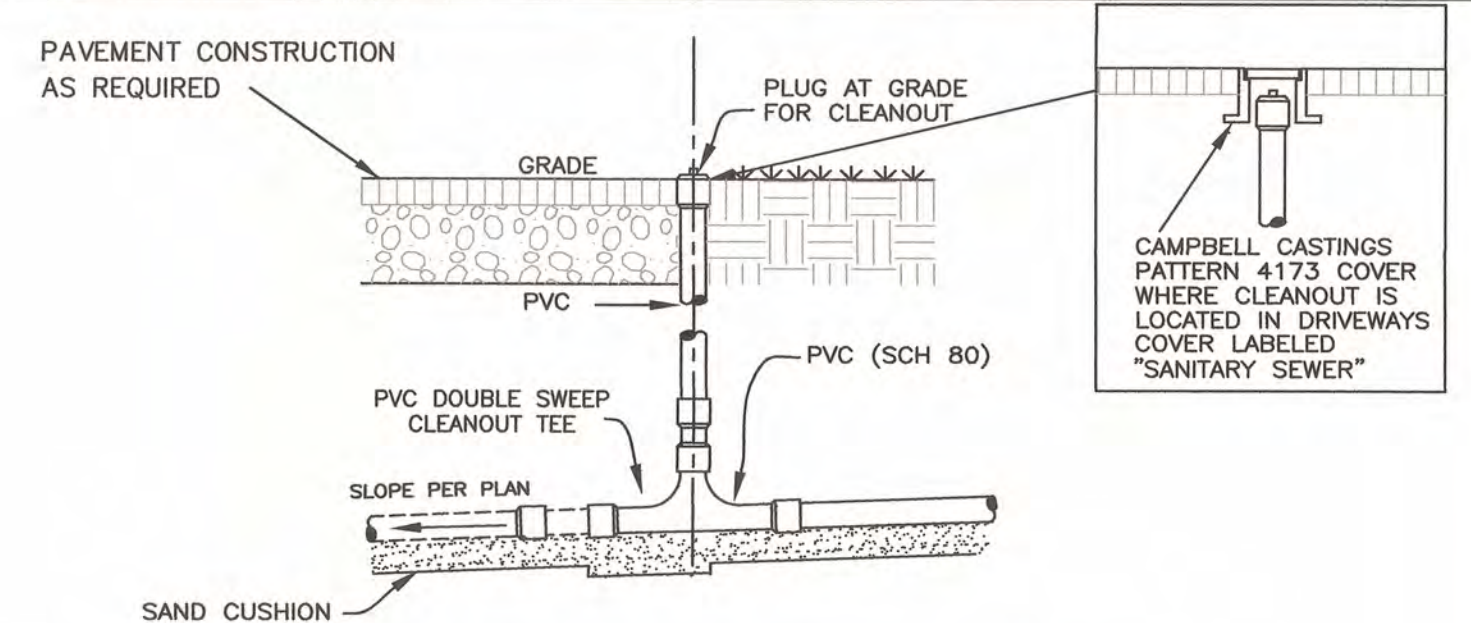
SANITARY SEWER MANHOLE

NOT TO SCALE



SPECIFICATIONS	PRECAST SEPTIC TANKS 2500 GALLONS
Concrete Min. Strength: 4,000 psi at 28 days	Woodard's Concrete Products, Inc. 629 Lybolt Road, Bullville, NY 10915 (845) 361-3471 / Fax 361-1050 Page 6A 8/12/14
Reinforcement: #3 Rebar, 6x6x10ga. WWM	
Air Entrainment: 5%	
Construction Joint: Butyl Rubber Sealant	
Pipe Connection: Polylok Seal (patented)	
Weight = 17,000 lbs	
Load Rating: 300 psf	

www.woodardsconcrete.com OR EQUAL



5 SEWER LATERAL CLEANOUT DETAIL
NOT TO SCALE

MAP REVISION DATES		
DATE	REVISION	BY
02/22/2019	ADDED DETAILS	KJP

SOIL EROSION AND SEDIMENT CONTROL AND SEPTIC DETAILS

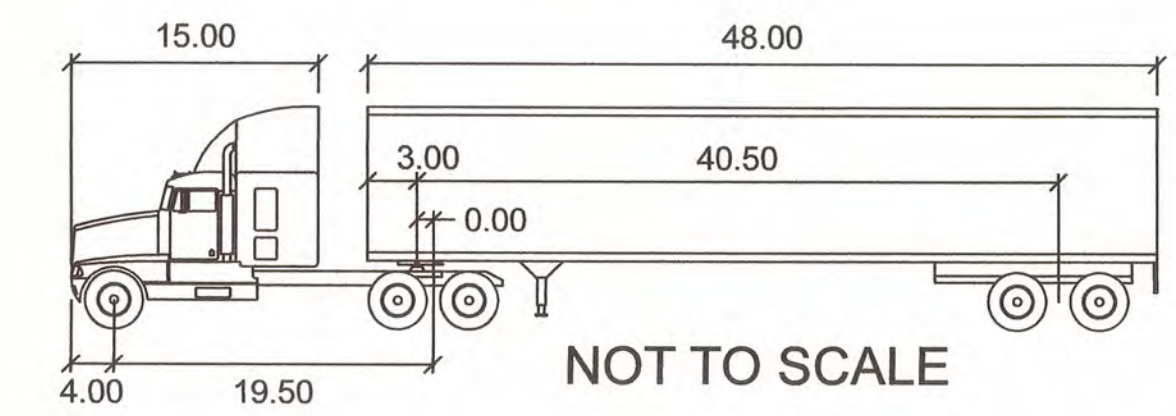
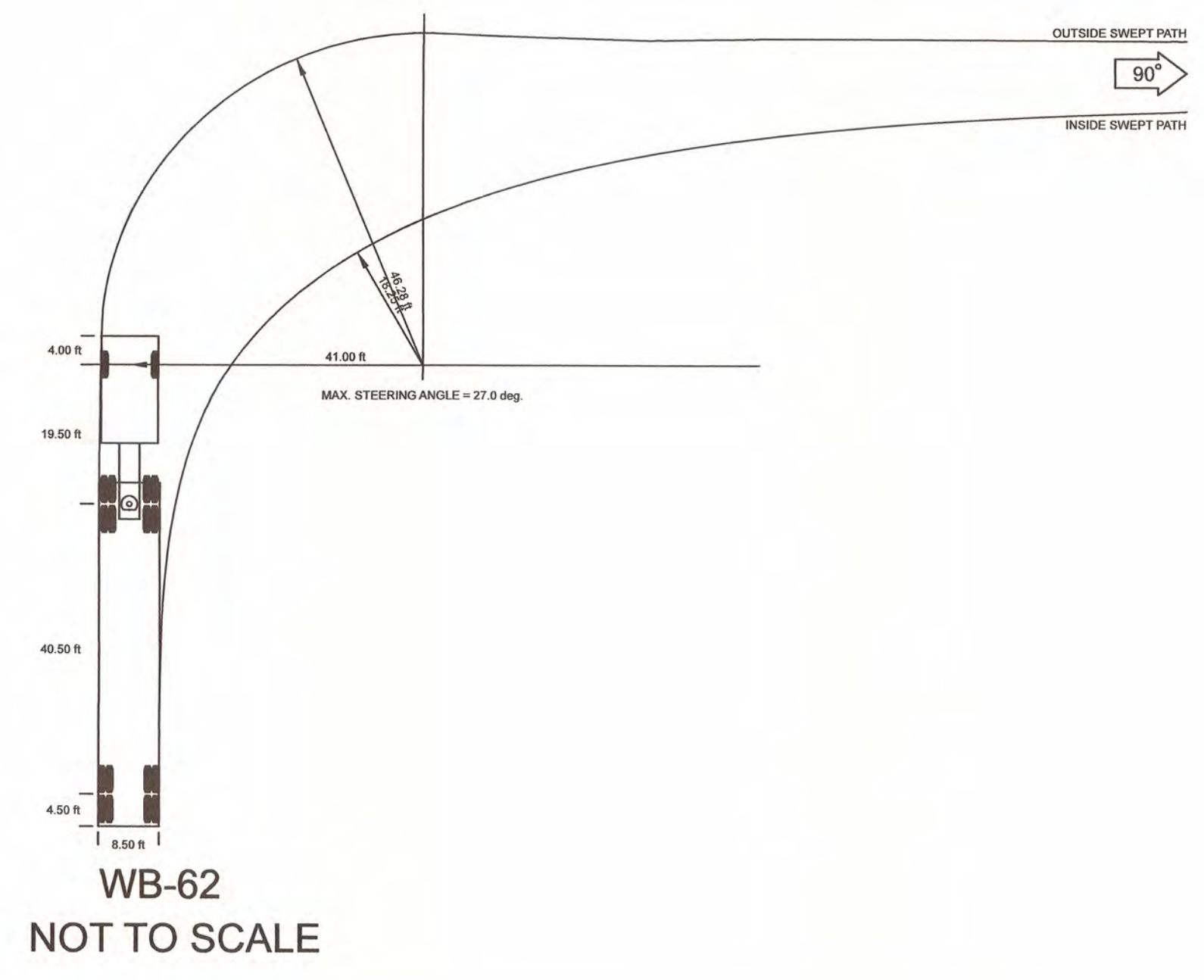
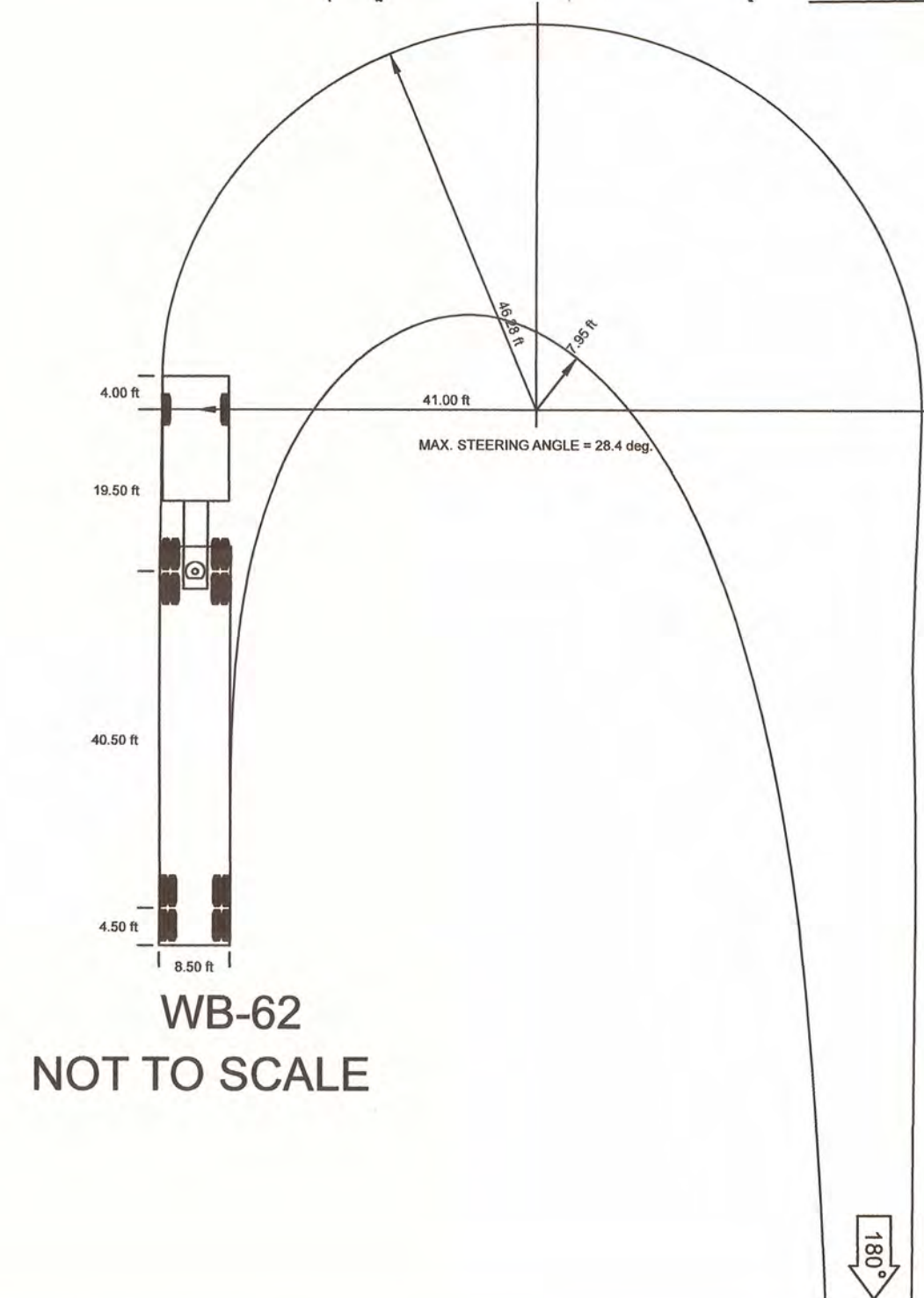
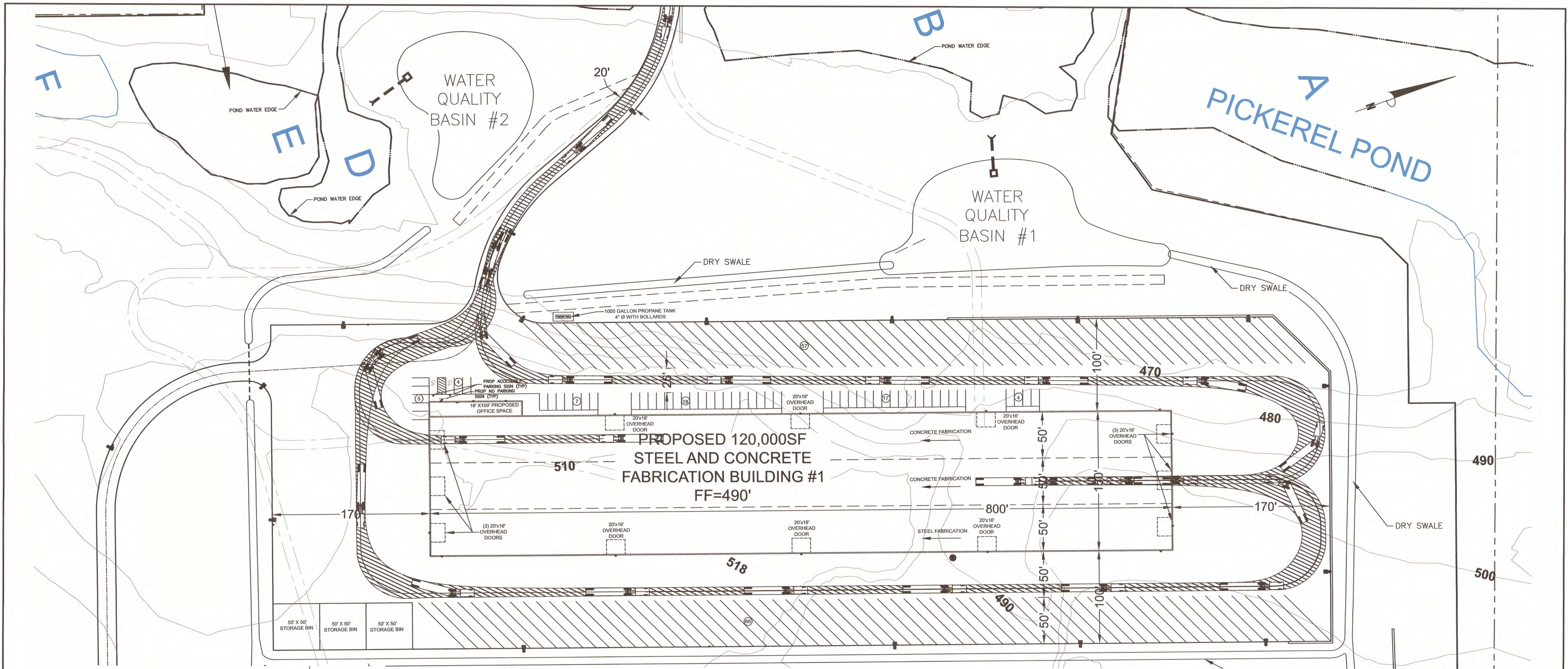
FOR
850 ROUTE 28 LLC
TOWN OF KINGSTON
ULSTER COUNTY - NEW YORK

Scale: 1" = 20'
JANUARY 31, 2019

MEDENBACH & EGGERS
CIVIL ENGINEERING AND SURVEYING, P.C.
STONY BROOK, NEW YORK (845) 687-0047

Ray Medenbach, P.E.
RAY MEDENBACH, P.E.
NEW YORK LIC. NO. 00148

D-3
E07 066
SHEET 15 OF 20



WB-62		feet	
Tractor Width	: 8.00	Lock to Lock Time	: 6.00
Trailer Width	: 8.50	Steering Angle	: 28.40
Tractor Track	: 8.00	Articulating Angle	: 70.00
Trailer Track	: 8.50		

MAP REVISION DATES		
DATE	REVISION	BY
1-8-2019	REVISED TRUCK MOVEMENT FOR WB-62	CC

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- Respect The Marks
- Dig With Care

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TRUCK MOVEMENTS

FOR TYPICAL BUILDING
850 ROUTE 28 LLC
 TOWN OF KINGSTON
 ULSTER COUNTY NEW YORK

Scale: 1" = 50'

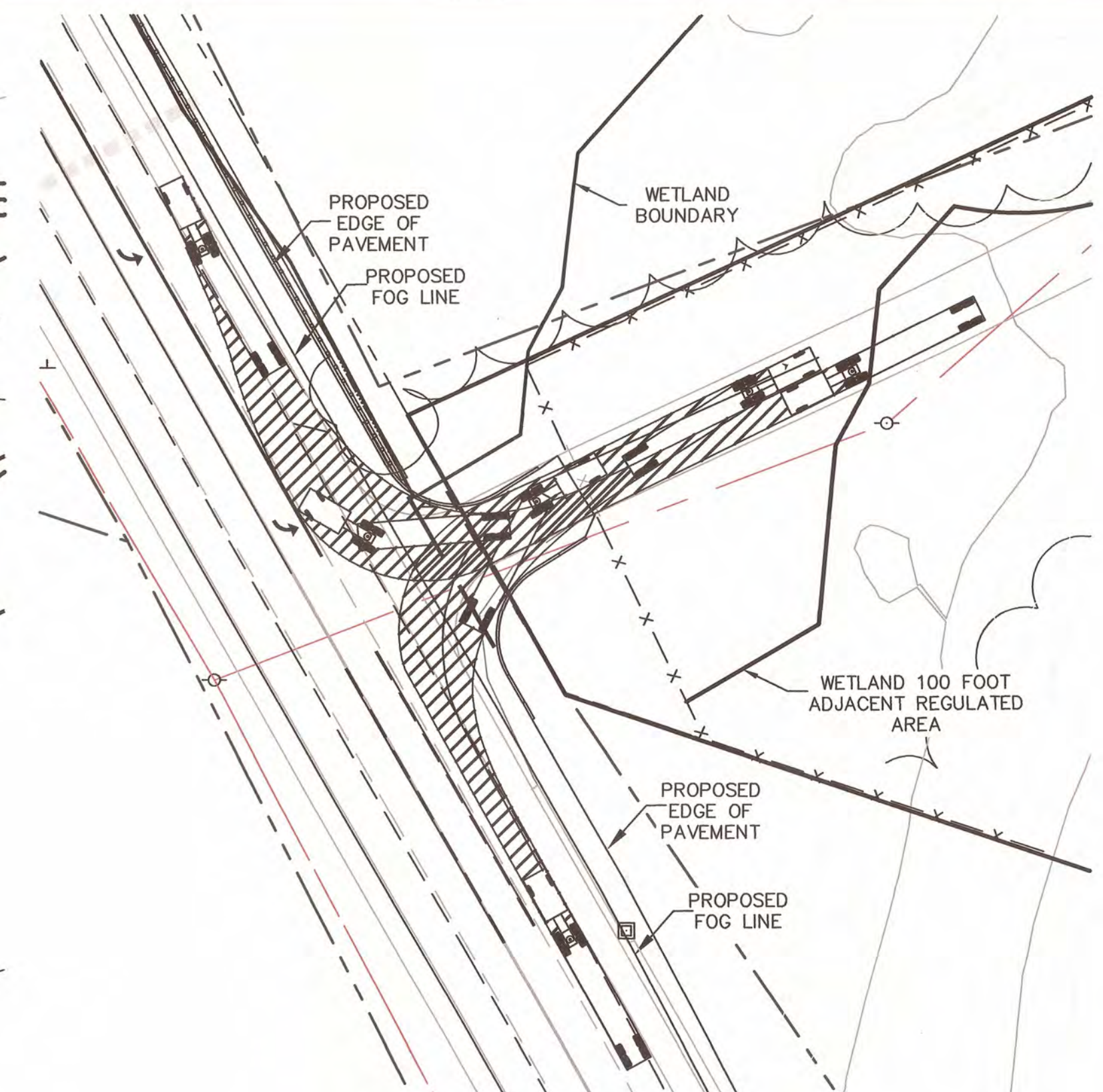
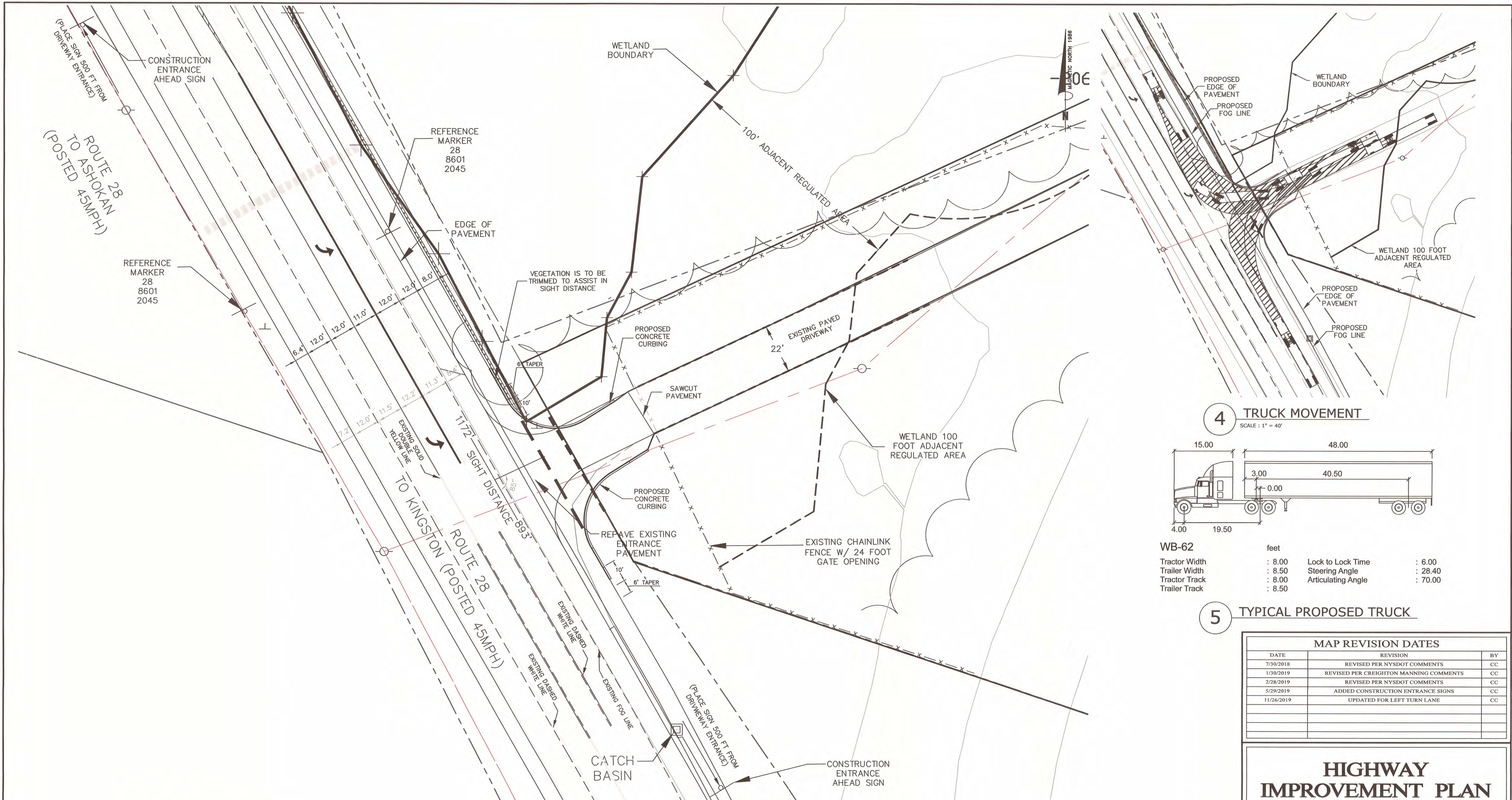
June 08, 2018

MEDENBACH & EGGERS
 CIVIL ENGINEERING & LAND SURVEYING, P.C.
 STONE HOUSE NEW YORK 12483-167-0047

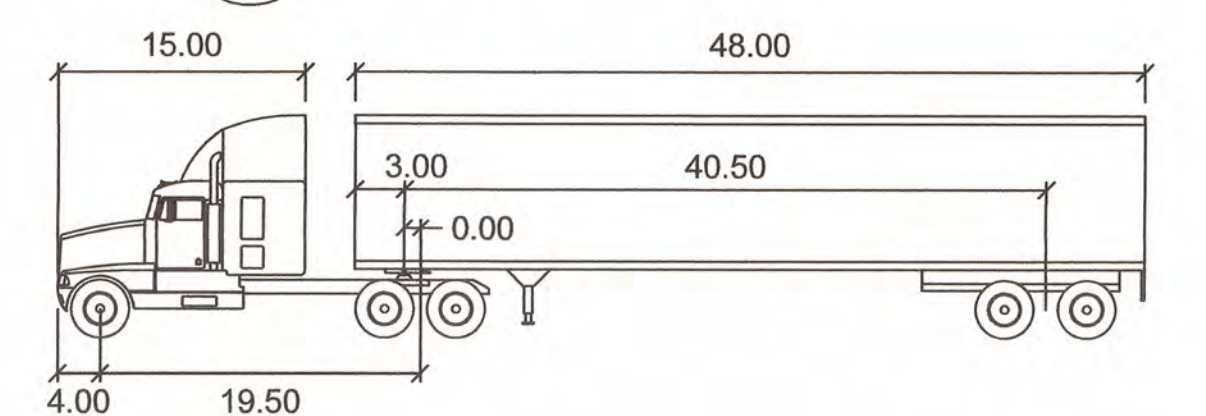
Barry Medenbach

BARRY MEDENBACH, P.E.
 NEW YORK, L.C. 2006-0012

D-4
 E17 064
 SHEET 16 OF 20



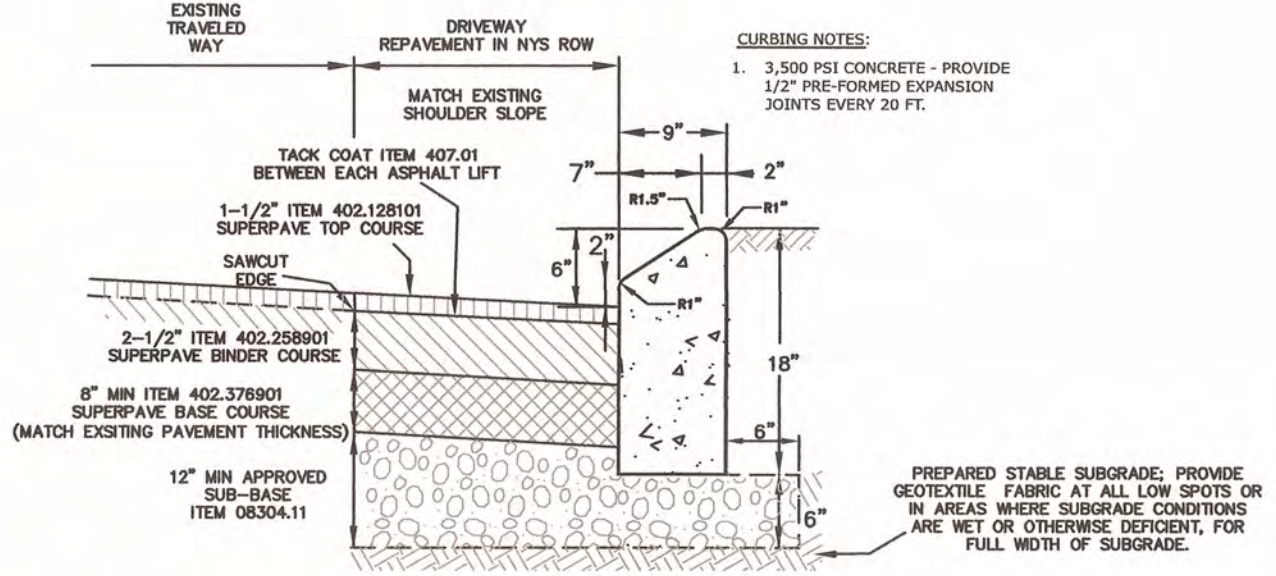
4 TRUCK MOVEMENT
SCALE: 1" = 40'



WB-62

	feet		
Tractor Width	: 8.00	Lock to Lock Time	: 6.00
Trailer Width	: 8.50	Steering Angle	: 28.40
Tractor Track	: 8.00	Articulating Angle	: 70.00
Trailer Track	: 8.50		

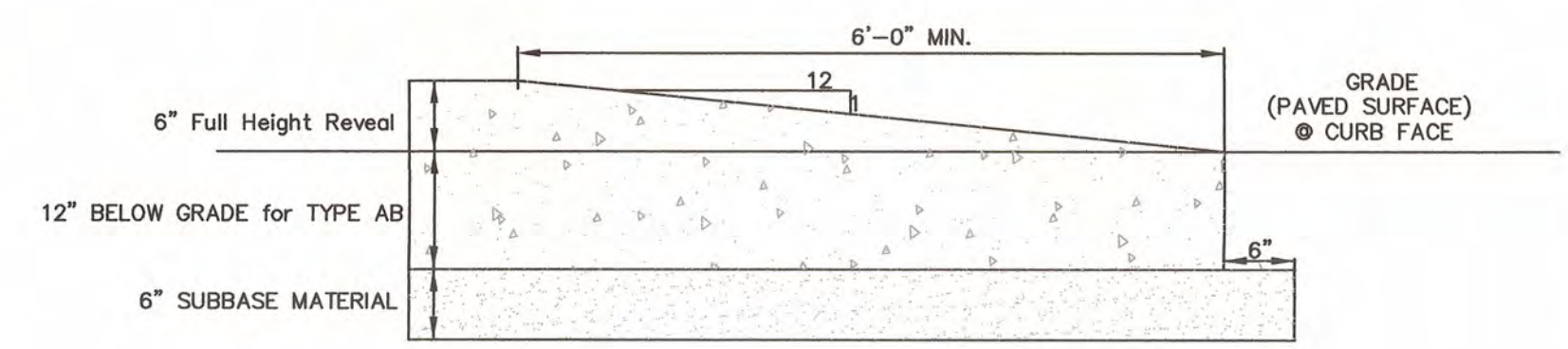
5 TYPICAL PROPOSED TRUCK



2 CONCRETE CURB AND NYSDOT PAVEMENT DETAIL
TYPE AB (MOUNTABLE)
NOT TO SCALE

1 HIGHWAY IMPROVEMENT PLAN
SCALE: 1" = 20'

	AREA TO BE REPAVED
	EXISTING GRAVEL AREA

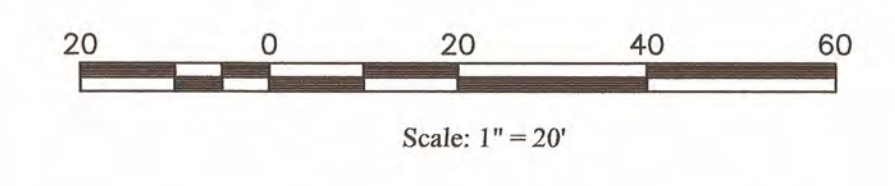


3 CURB TERMINAL: SECTION VIEW
NOT TO SCALE

MAP REVISION DATES

DATE	REVISION	BY
7/30/2018	REVISED PER NYSDOT COMMENTS	CC
1/30/2019	REVISED PER CREIGHTON MANNING COMMENTS	CC
2/28/2019	REVISED PER NYSDOT COMMENTS	CC
5/29/2019	ADDED CONSTRUCTION ENTRANCE SIGNS	CC
11/26/2019	UPDATED FOR LEFT TURN LANE	CC

HIGHWAY IMPROVEMENT PLAN
FOR
850 ROUTE 28 LLC
TOWN OF KINGSTON
ULSTER COUNTY NEW YORK

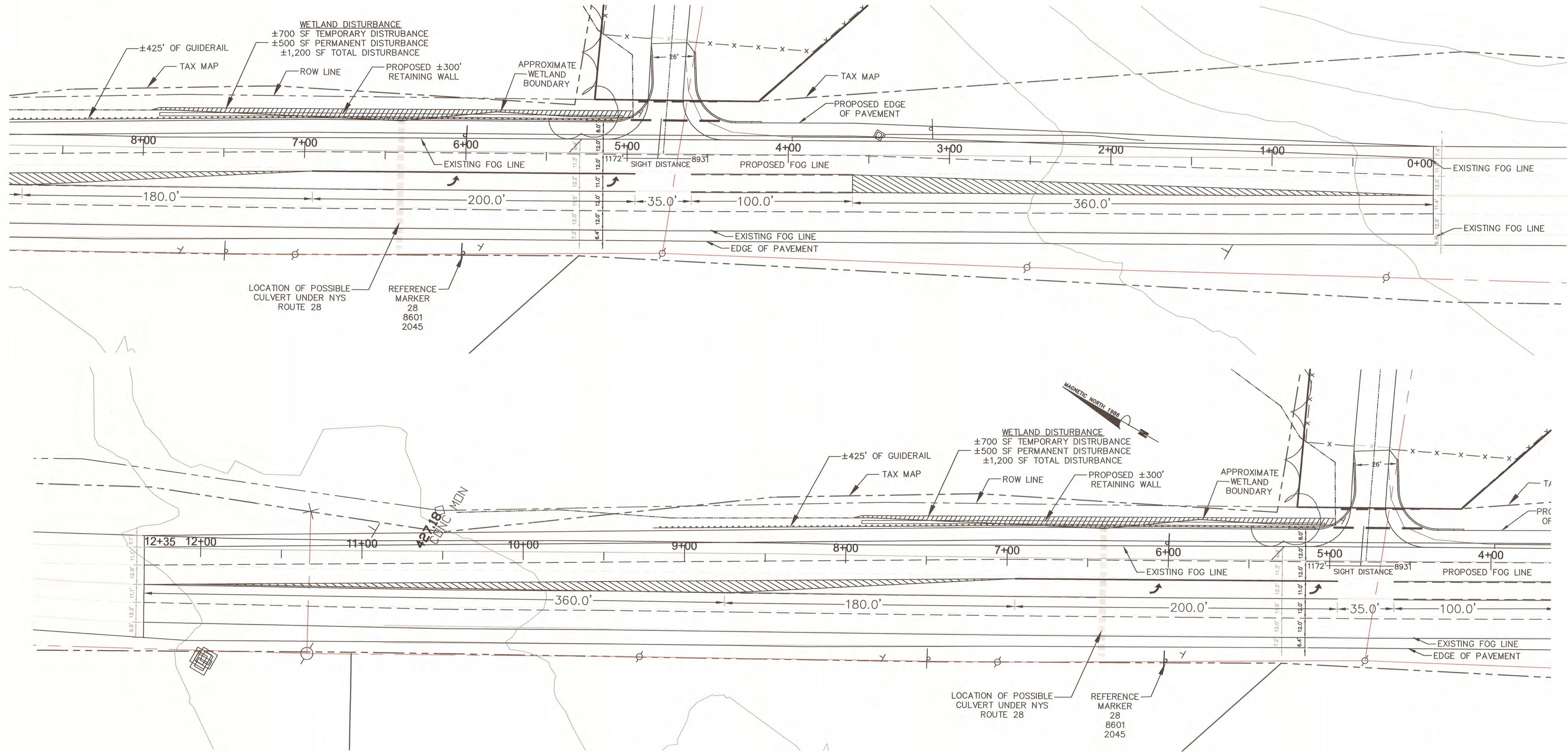


JULY 17, 2018

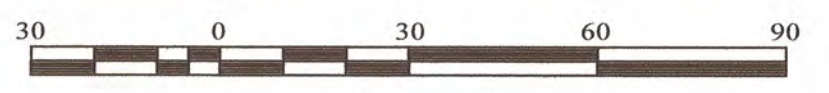
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STONE HILL, NEW YORK 12562-0047

B. Medenbach
BARRY MEDENBACH, P.E.
NEW YORK LIC. NO. 6042

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**HIGHWAY
 IMPROVEMENT PLAN
 LEFT TURN LANE**
 FOR
850 ROUTE 28 LLC
 TOWN OF KINGSTON
 ULSTER COUNTY NEW YORK



Scale: 1" = 30'

October 4, 2019

MEDENBACH & EGGERS
 CIVIL ENGINEERING & LAND SURVEYING, P.C.
 STONY BROOK, NEW YORK 11790-687-0047

[Signature]
 HARRY MEDENBACH, P.E.
 NEW YORK LIC. NO. 60942

HP-2
 ET 064
 SHEET 18 OF 20

MAP REVISION DATES		
DATE	REVISION	BY

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