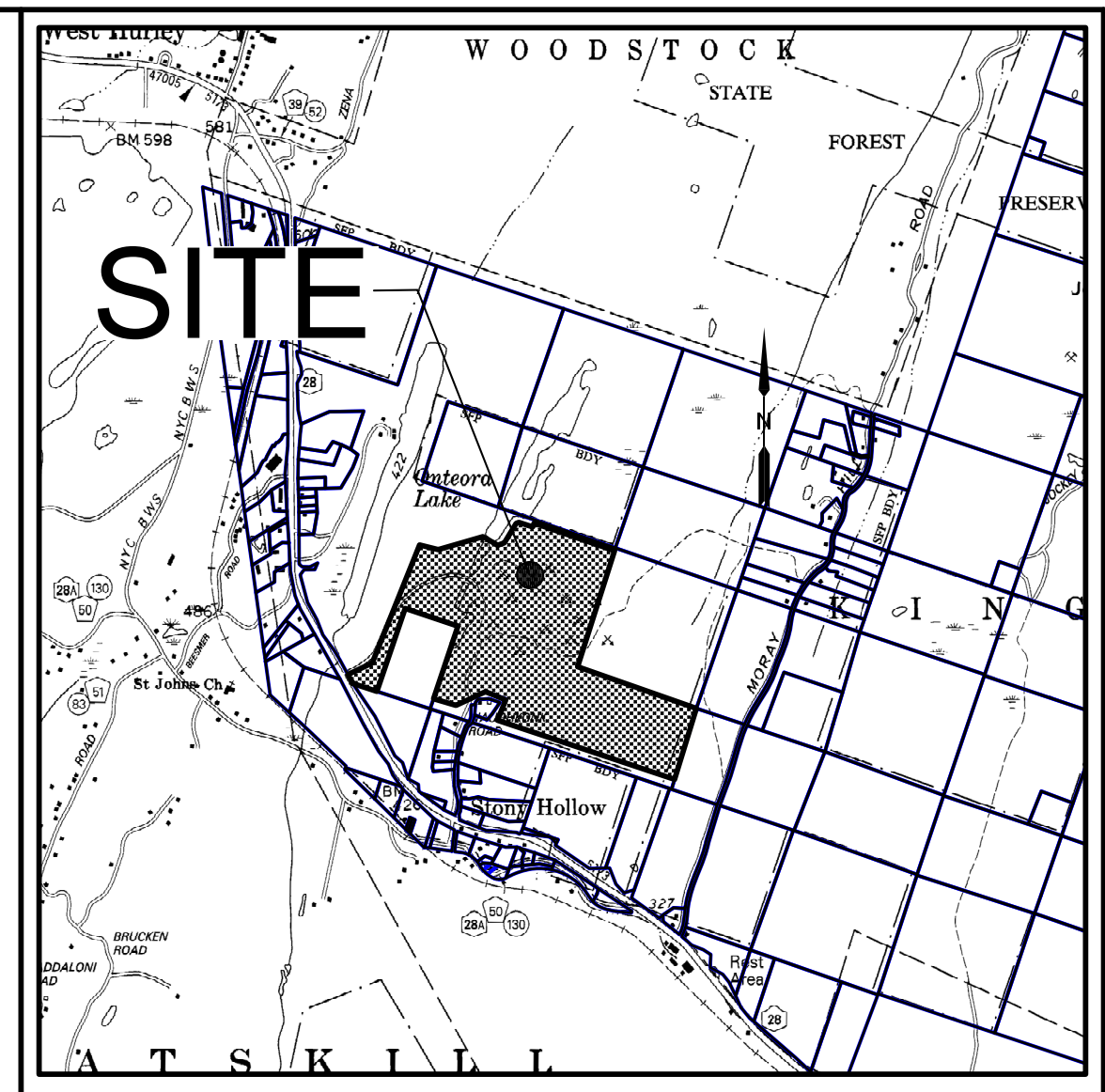


- ### PLAN LEGEND
- PROPOSED PARCEL BOUNDARY
  - - - ADJACENT PARCEL BOUNDARY
  - ▨ PROPOSED STRUCTURE
  - EXISTING STRUCTURE
  - ELV — EXISTING 2 FOOT CONTOUR
  - ELV — EXISTING 10 FOOT CONTOUR
  - ELV — PROPOSED 10 FOOT CONTOUR
  - PROPOSED CURBING
  - EXISTING CURBING
  - PROPOSED RELOCATED LIGHT FIXTURE
  - x - x - EXISTING FENCE
  - PROPOSED GUIDE RAIL
  - EXISTING GUIDE RAIL
  - PROPOSED RETAINING WALL
  - - - PROPOSED STORM DRAIN
  - PROPOSED CATCH BASIN
  - SPOT ELV PROPOSED SPOT ELEVATION
  - ⊙ PROPOSED STORMWATER MANHOLE
  - EXISTING CATCH BASIN
  - S — PROPOSED SANITARY SEWER
  - ⊙ PROPOSED SANITARY MANHOLE
  - S — EXISTING SANITARY SEWER
  - ⊙ EXISTING SANITARY MANHOLE
  - PROPOSED WATER MAIN (X=DIA.)
  - EXISTING WATER MAIN (X=DIA.)
  - ⊕ PROPOSED WATER VALVE
  - ⊕ EXISTING WATER VALVE
  - ⊕ EXISTING HYDRANT
  - OHUL — EXISTING OVERHEAD UTILITY
  - EXISTING UTILITY POLE
  - GAS — PROPOSED GAS LINE
  - GAS — EXISTING GAS LINE
  - LOD — LIMIT OF DISTURBANCE



PROPERTY BOUNDARIES ARE PER DEED DESCRIPTION AND FM# 8235.  
 TOPOGRAPHIC DATA PROVIDED BY H2H DATED 7/7/2017 FROM AERIAL SURVEY.

### SHEET INDEX

SHEET	TITLE
I-1	1 OF 21 INDEX SHEET
SP-1	2 OF 21 SITE PLAN
GP-1	3 OF 21 GRADING AND UTILITY PLAN 1
GP-2	4 OF 21 GRADING AND UTILITY PLAN 2
PH-1	5 OF 21 PHASING PLAN
PH-2	6 OF 21 SOUND BARRIER PLAN
LP-1	7 OF 21 LIGHTING PLAN
SEP-1	8 OF 21 SEPTIC PLAN
RP-1	9 OF 21 ROAD PROFILE 1
RP-2	10 OF 21 ROAD PROFILE 2
SPP-1	11 OF 21 STREAM PROTECTION PLAN
LSP-1	12 OF 21 LANDSCAPING PLAN
SESC-1	13 OF 21 SOIL EROSION AND SEDIMENT CONTROL
D-1	14 OF 21 SITE DETAILS
D-2	15 OF 21 DRAINAGE DETAILS
D-3	16 OF 21 SOIL EROSION AND SEDIMENT CONTROL AND SEPTIC DETAILS
D-4	17 OF 21 TRUCK MOVEMENT
HIP-1	18 OF 21 HIGHWAY IMPROVEMENT PLAN - LEFT TURN LANE
HIP-2	19 OF 21 HIGHWAY IMPROVEMENT PLAN - RIGHT TURN LANE
ELEV-1	20 OF 21 BUILDING ELEVATIONS
ELEV-2	21 OF 21 BUILDING ELEVATIONS

### ZONING REQUIREMENTS

FOR MU-1 MIXED USE RESIDENTIAL 1

	REQUIRED	EXISTING	PROPOSED
MINIMUM LOT AREA	2 AC	±110.6 AC	±110.6 AC
MINIMUM LOT WIDTH	200 FT.	±335 FT.	±335 FT.
MINIMUM YARD SETBACKS			
FRONT	50 FT.	>1650 FT.	±
SIDE	20 FT.	±420 FT.	±450 FT.
REAR	30 FT.	±160 FT.	±450 FT.
MAXIMUM BUILDING HEIGHT	35 FT.	±25 FT.	±35 FT.
MAXIMUM LOT COVERAGE	60%	±10.3%	±5.1%
PARKING REQUIREMENTS	110 SPACES	0 SPACES	110 SPACES

1 SPACE PER EVERY EMPLOYEE PLUS ONE SPACE PER 5000 SQUARE FEET OF FLOOR AREA ESTIMATED MAXIMUM OF 30 EMPLOYEES PER BUILDING. EACH BUILDING IS PROPOSED TO HAVE 120,000 SQUARE FEET OF FLOOR AREA.

<b>OWNER/DEVELOPER</b>	<b>TAX MAP ID#</b>
850 ROUTE 28 LLC C/O DAN LEFEVER KINGSTON, NY	38.4-1-36.100
	<b>LOT AREA</b>
	±110.6 ACRES

APPROVED BY THE TOWN OF KINGSTON PLANNING BOARD

DATE \_\_\_\_\_

CHAIRMAN \_\_\_\_\_

MEMBER \_\_\_\_\_

OWNERS ENDORSEMENT

I HEREBY GRANT MY APPROVAL TO THIS PLAT AND THE PLANS SHOWN HEREON.

OWNER: \_\_\_\_\_ DATED: \_\_\_\_\_

### MAP REVISION DATES

DATE	REVISION	BY
8/2/2018	REVISED PARKING NUMBERS	CC
1/31/2019	UPDATED PLANS PER COMMENTS	CC
5/14/2019	REVISED SITE PLAN PER TOWN ENGINEER'S COMMENTS	CC
11/26/2019	UPDATED FOR SHEETS PH-1 AND HIP-2	CC
2/25/2020	ADDED LANDSCAPING PLAN	CC

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## INDEX SHEET

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

Scale: 1" = 200'

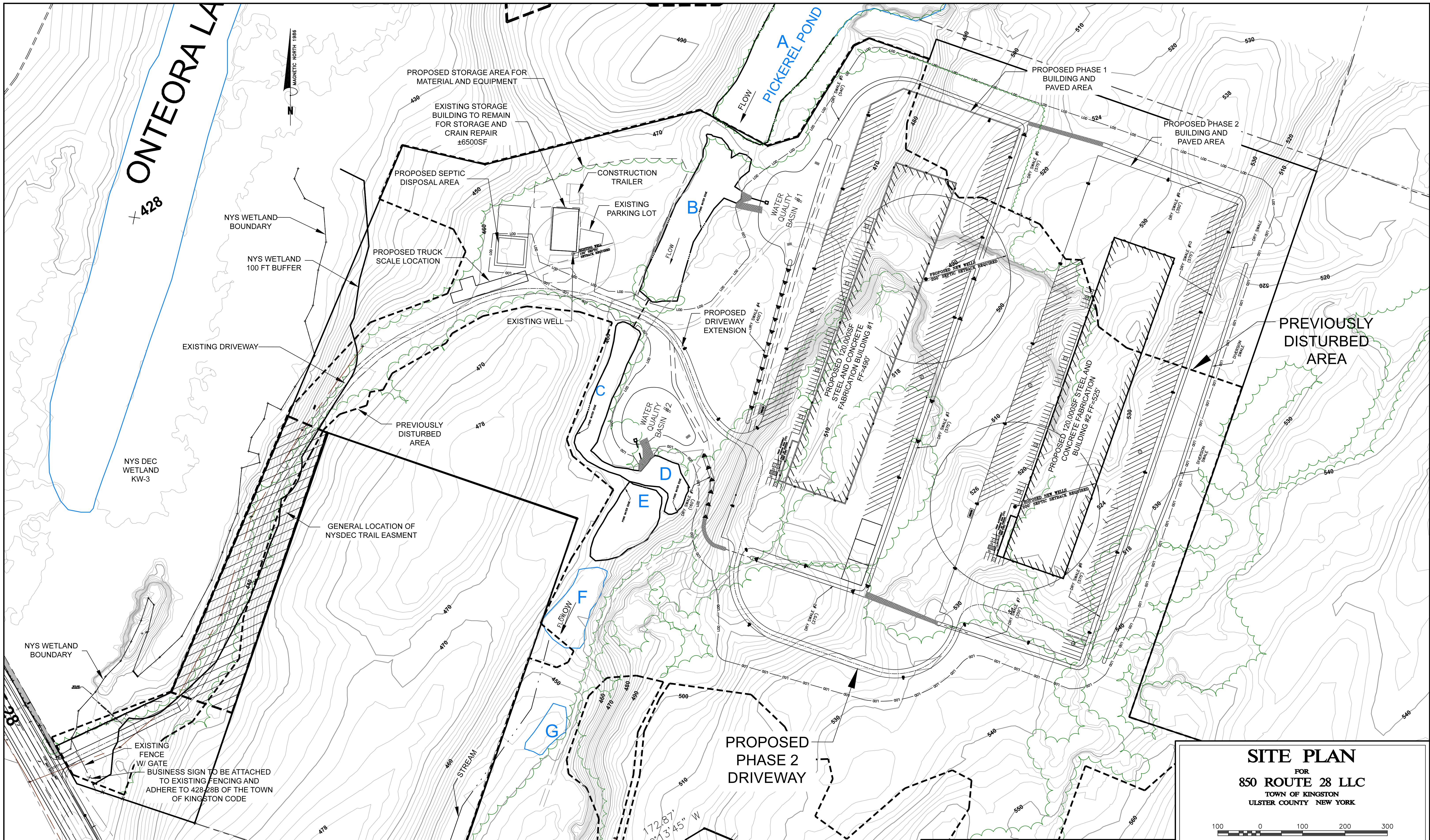
JUNE 08, 2018

**MEDENBACH & EGGERS**  
 CIVIL ENGINEERING & LAND SURVEYING, P.C.  
 STONE RIDGE, NEW YORK (845) 687-0047

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

I-1  
 E17 064  
 SHEET 1 OF 21





- GENERAL NOTES:
- THERE IS AN EXISTING EASEMENT FOR PEDESTRIAN ACCESS ACROSS THE EXISTING DRIVEWAY. THERE IS NO PROPOSED LOCATION OR PLANS FOR THIS PEDESTRIAN ACCESS AT THIS TIME.
  - 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
01/8/2020	ADDED NOTE FOR PEDESTRIAN ACCESS	CC
02/25/2020	ADDED GENERAL LOCATION FOR NYSDEC TRAIL EASEMENT	CC

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

Scale: 1" = 100'

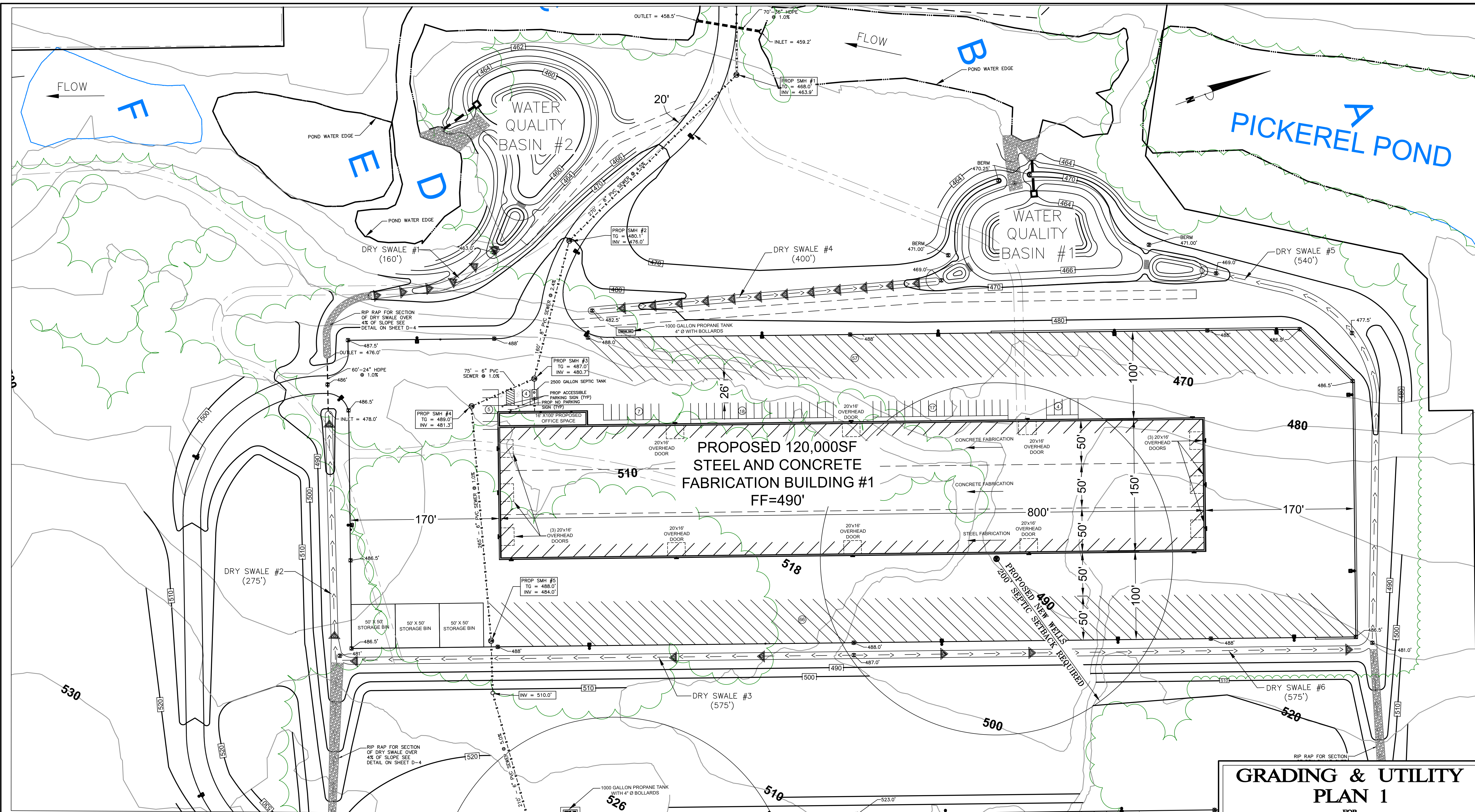
June 08, 2018

**MEDENBACH & EGGERS**  
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 STONE RIDGE, NEW YORK (845) 687-0047

SP-1  
 EIT 064  
 SHEET 2 OF 21

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

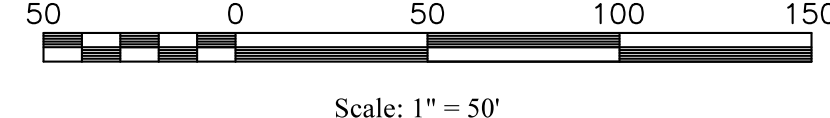




GENERAL NOTES:  
ALL DRY SWALES ARE TO HAVE UNDERDRAINS

## GRADING & UTILITY PLAN 1

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



June 08, 2018

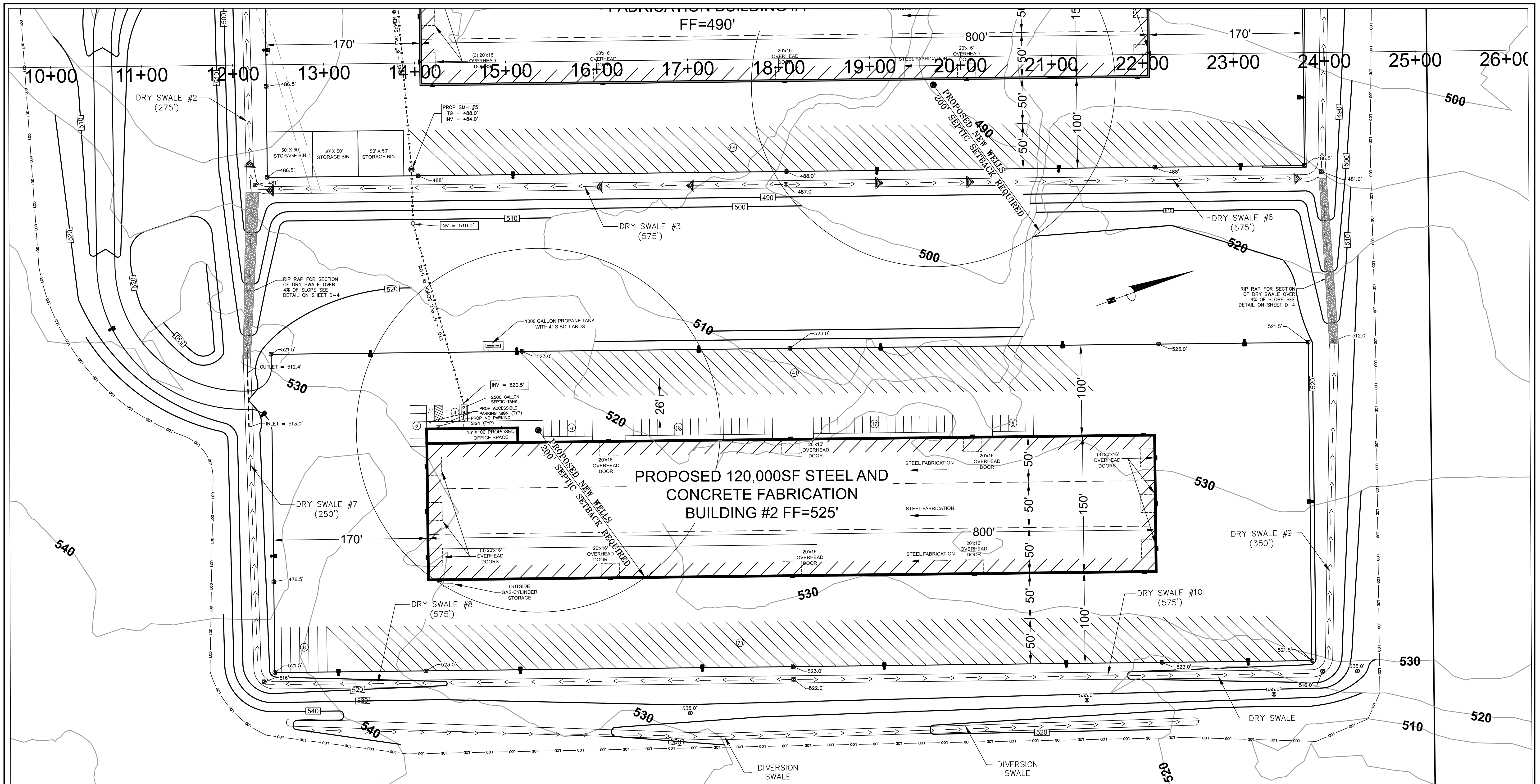
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STONE RIDGE, NEW YORK (845) 687-0047

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

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

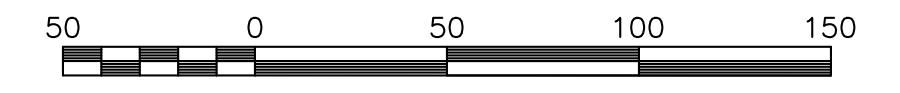
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**PROPOSED 120,000SF STEEL AND CONCRETE FABRICATION BUILDING #2 FF=525'**

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



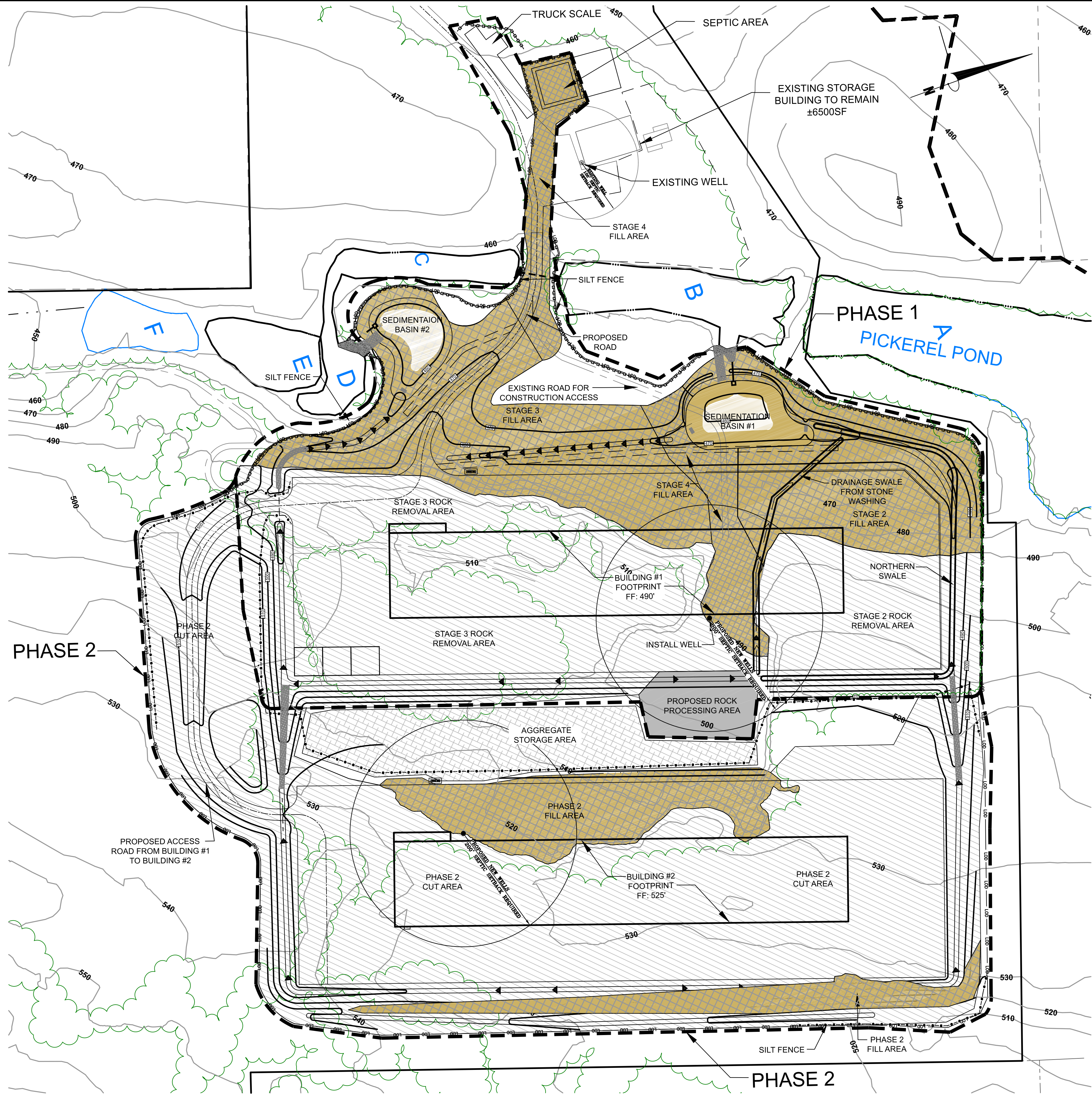
Scale: 1" = 50'  
 June 08, 2018

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 CIVIL ENGINEERING & LAND SURVEYING, P.C.  
 STONE RIDGE, NEW YORK (845) 687-0047

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

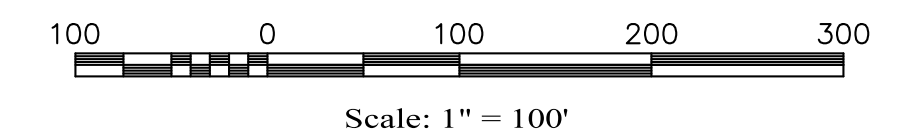
- PHASE 1 CONSTRUCTION SEQUENCE**
- STAGE 1:**
- INSTALL SILT FENCE AROUND EXISTING PONDS AND SITE
  - INSTALL TRUCK SCALE
  - REMOVE TREES WITHIN PHASE 1 AREA
  - INSTALL SEDIMENTATION BASIN #1 (FUTURE WATER QUALITY BASIN #1)
  - PREPARE ROCK PROCESSING AREA AND CONSTRUCT SWALE FROM PROCESSING AREA 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 DRY SWALES AROUND SITE FOR PHASE 1 AS SHOWN ON SITE PLAN. DO NOT INSTALL PROPOSED DRY SWALE SOIL MEDIUM BETWEEN THE PROPOSED BUILDINGS UNTIL ALL STONE CRUSHING HAS BEEN COMPLETED. CHECK DAMS ARE TO BE INSTALLED FOR THE DRY SWALE BETWEEN THE PROPOSED BUILDINGS AS SHOWN TO CONTROL SEDIMENT FROM STONE CRUSHING AND PHASE 2 CONSTRUCTION.
  - 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**
- INSTALL SILT FENCE OR FILTER SOCKS BETWEEN PHASE 1 AND PHASE 2
  - 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 DRY SWALE SOIL MEDIUM BETWEEN PROPOSED BUILDINGS.

MAP REVISION DATES		
DATE	REVISION	BY
04/16/2019	REVISED KEY LEGEND	CC
11/26/2019	REVISED CONSTRUCTION SEQUENCE	CC
02/25/2020	REVISED CONSTRUCTION SEQUENCE NOTES	CC

ROCK CUT AND FILL VOLUME SUMMARY				
PHASE	TOTAL CUT IN PLACE VOLUME (YD <sup>3</sup> )	FILL VOLUME (YD <sup>3</sup> ) ON-SITE (13 x IN PLACE VOLUME)	GRAYWACKE MATERIAL IN-PLACE VOLUME (YD <sup>3</sup> ) ( TO BE USED FOR CONCRETE AGGREGATE ONSITE )	EXCESS MATERIAL VOLUME (YD <sup>3</sup> ) 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
<b>TOTALS:</b>	<b>±405,000</b>	<b>±154,000</b>	<b>±185,000</b>	<b>±162,000</b>

- GENERAL NOTES:**
1. ALL TREE CUTTING IS TO BE LIMITED ON THE SITE FROM OCTOBER 1 TO MARCH 31.
  2. NO EXCAVATION, BLASTING OR PROCESSING OF ROCK MATERIAL ON SUNDAYS OR FEDERAL HOLIDAYS.

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

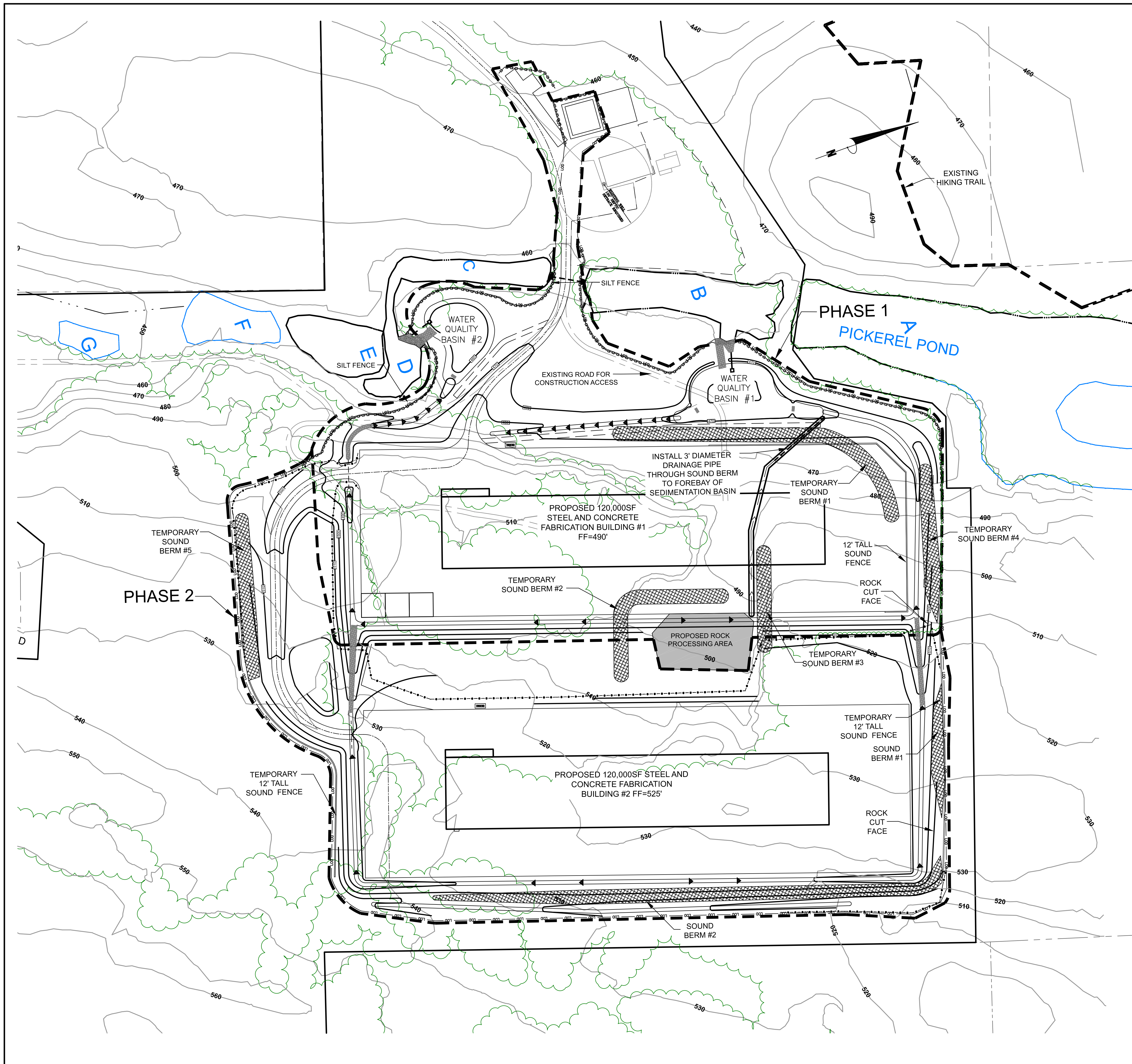


DECEMBER 14, 2018  
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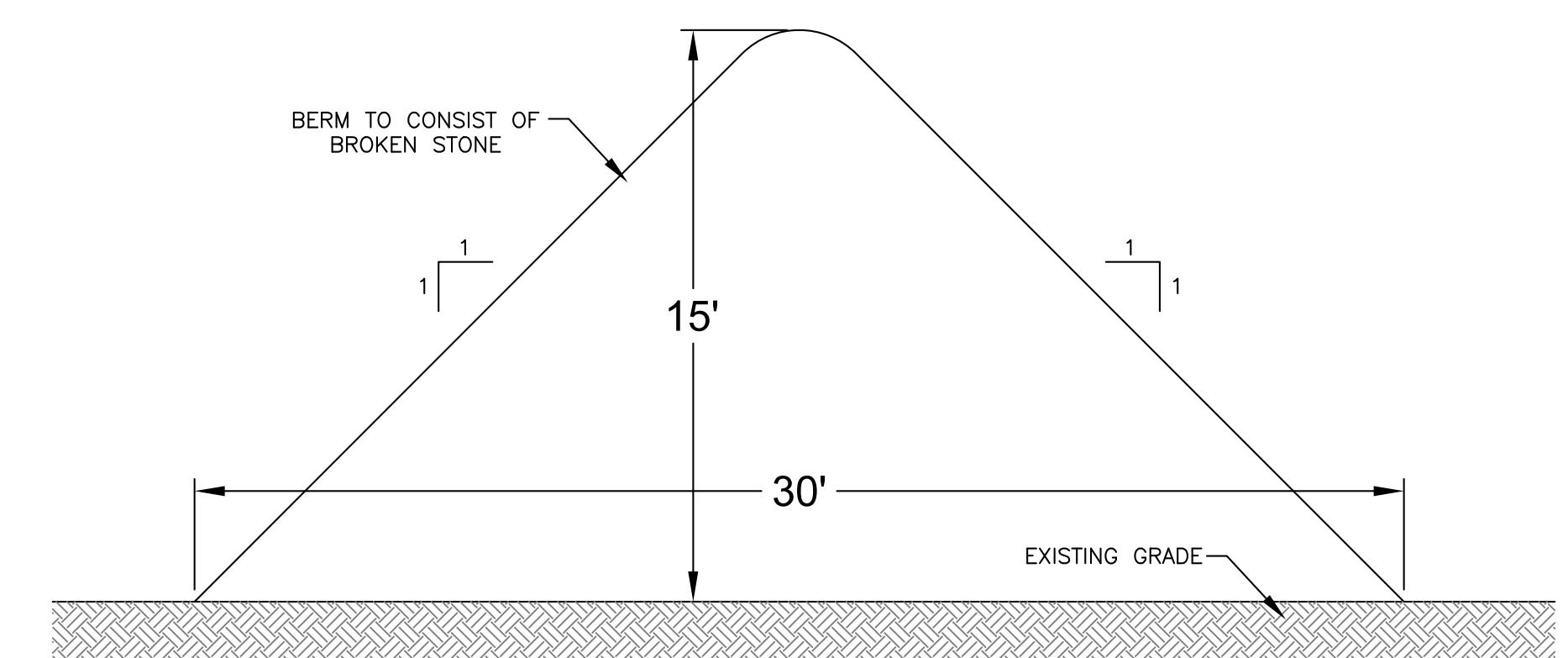
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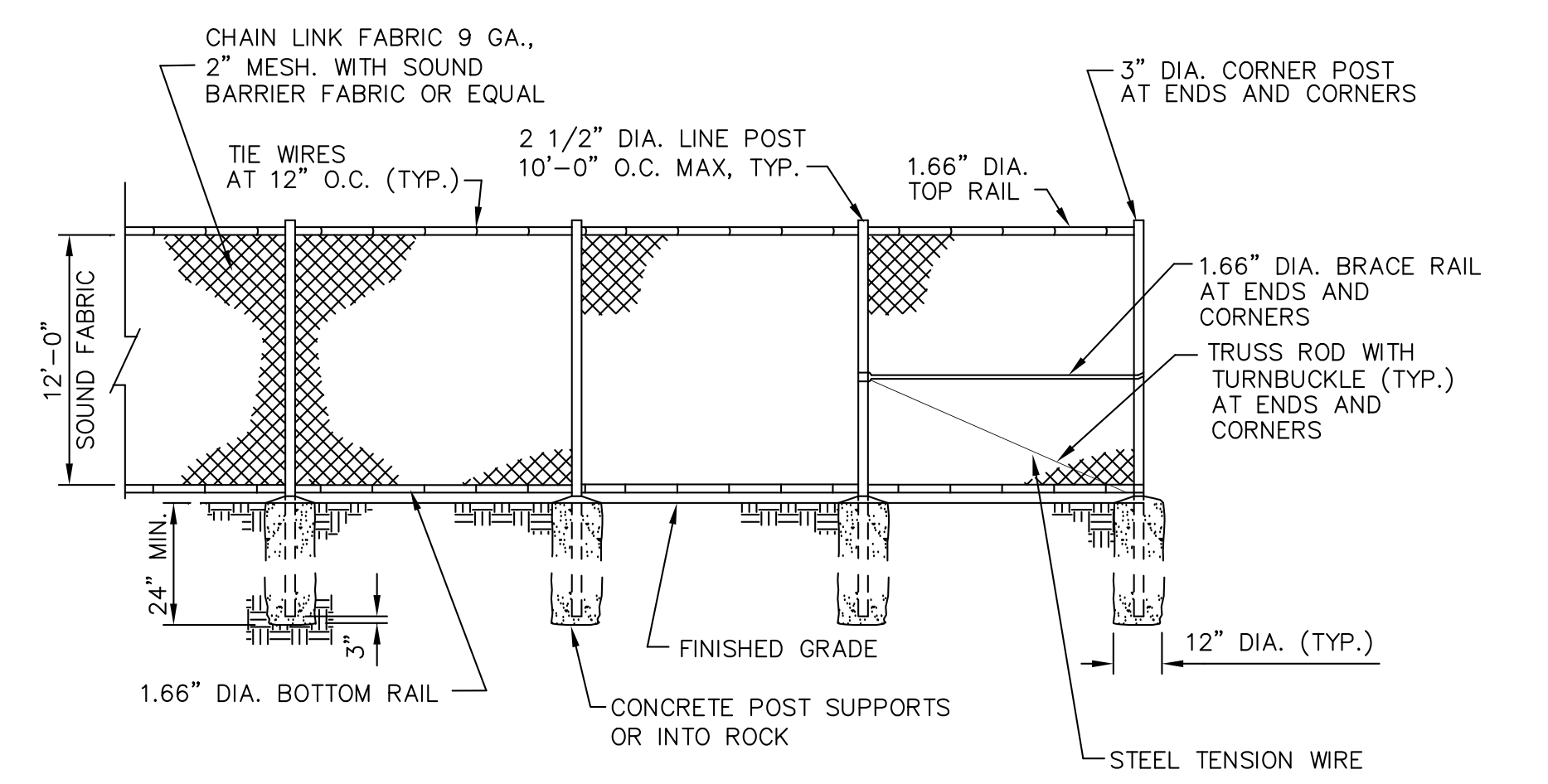


**KEY LEGEND**

- PROCESSING AREA
- SOUND BERM



**TYPICAL SOUND BERM**  
NOT TO SCALE



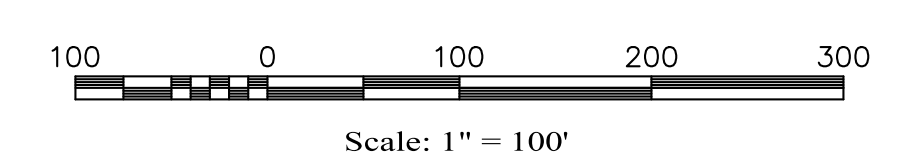
**TYPICAL SOUND FENCE**  
NOT TO SCALE

- 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

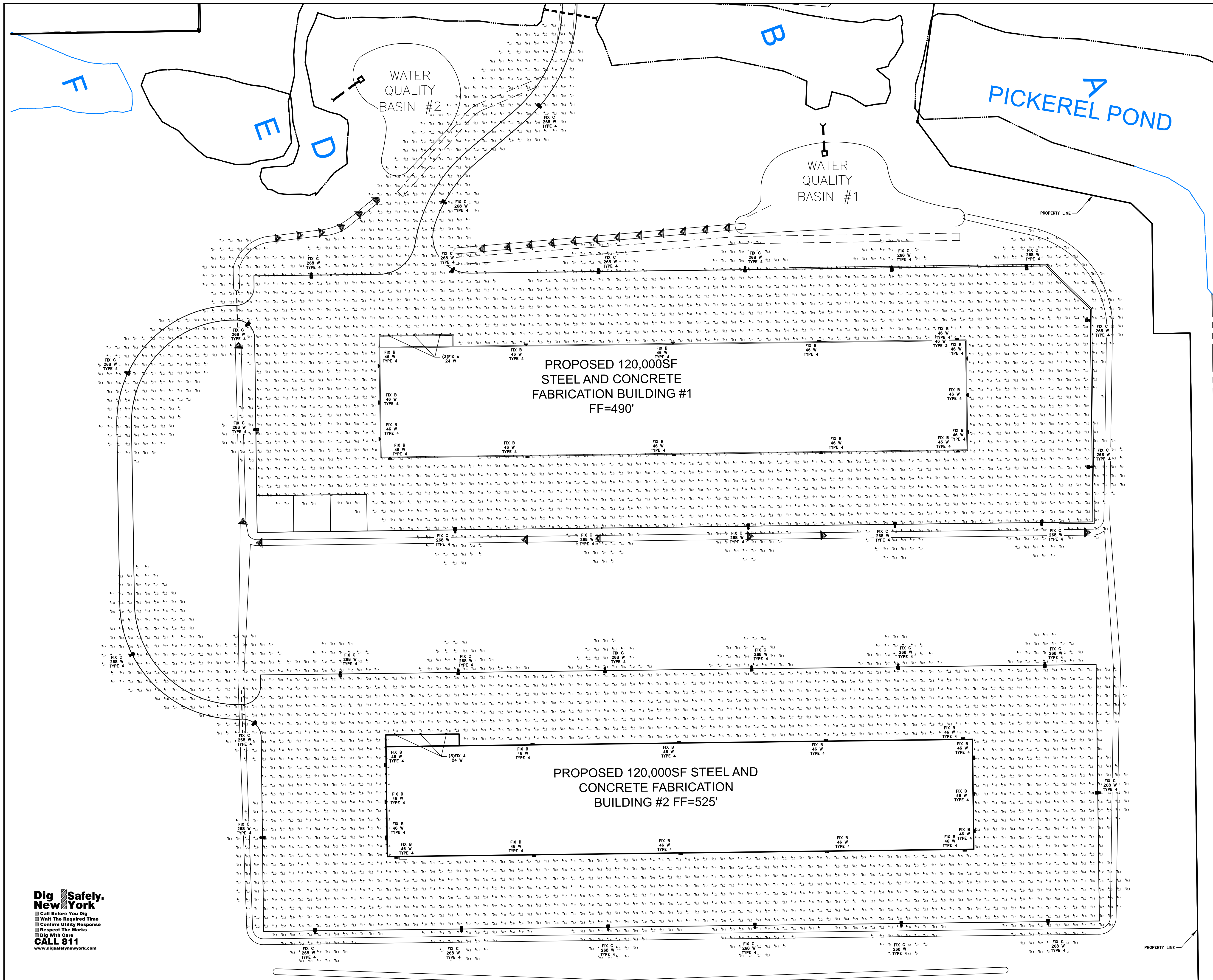


NOVEMBER 26, 2019

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- GENERAL NOTES:
- ALL LIGHTING FIXTURES SHALL BE FULLY SHIELDED AND DARK SKIES COMPLIANT.
  - LIGHT POLE FIXTURES ARE TO BE DIMMABLE WITH MOTION SENSORS.

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

MAP REVISION DATES		
DATE	REVISION	BY
02/25/2020	ADDED NOTES PER PLANNING BOARD	CC

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

60 0 60 120 180  
Scale: 1" = 60'

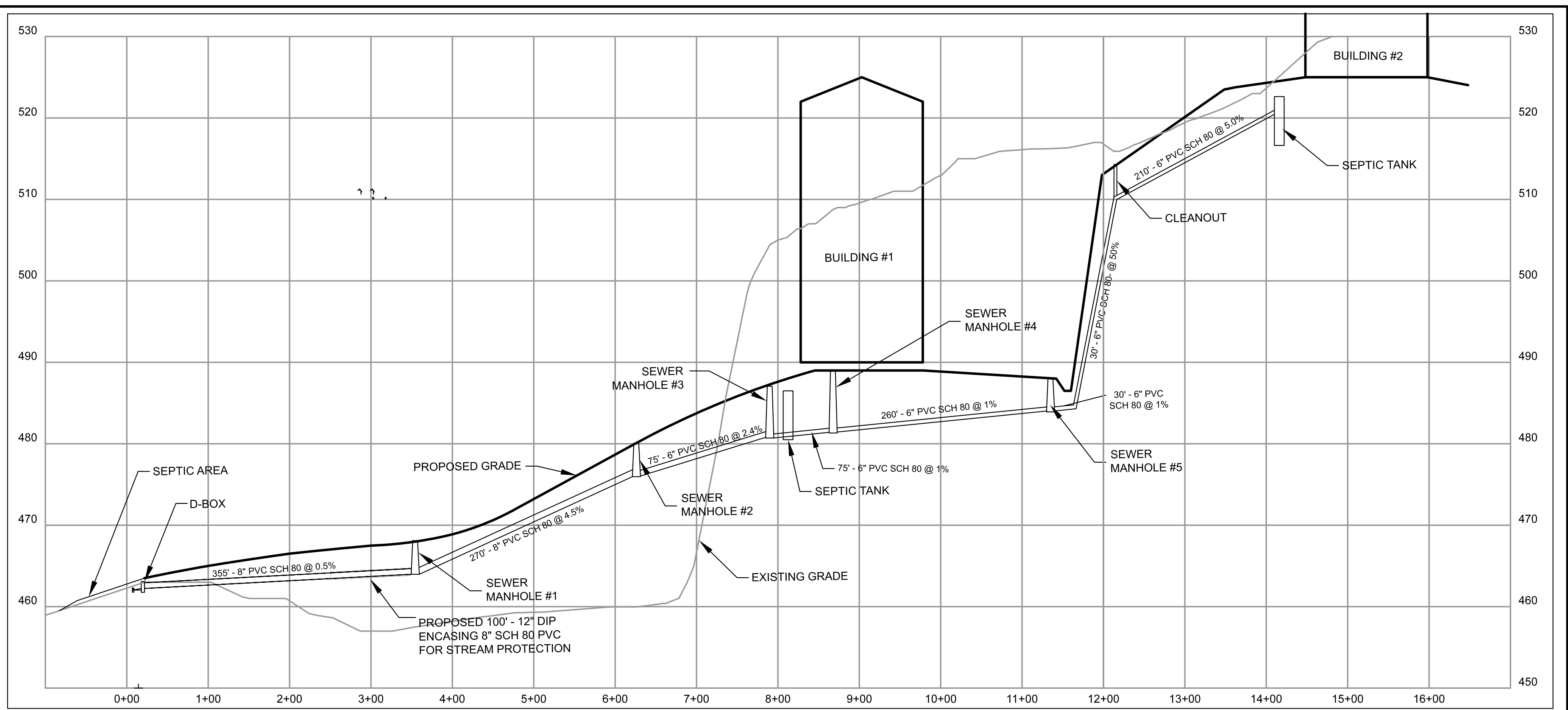
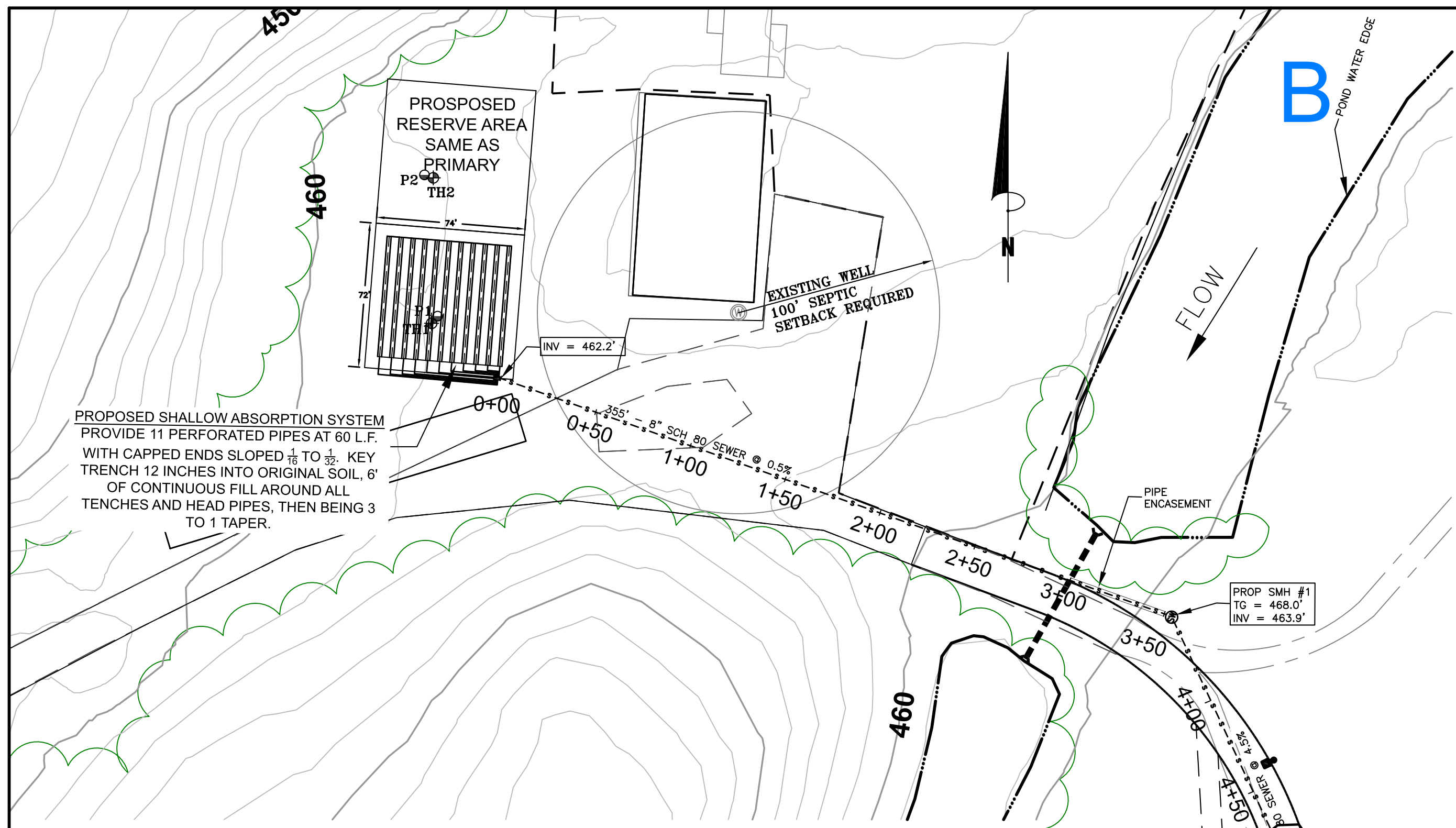
JANUARY 31, 2019  
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STONE RIDGE, NEW YORK (845) 687-0047

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

LP-1  
E17 054  
SHEET 7 OF 21

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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.

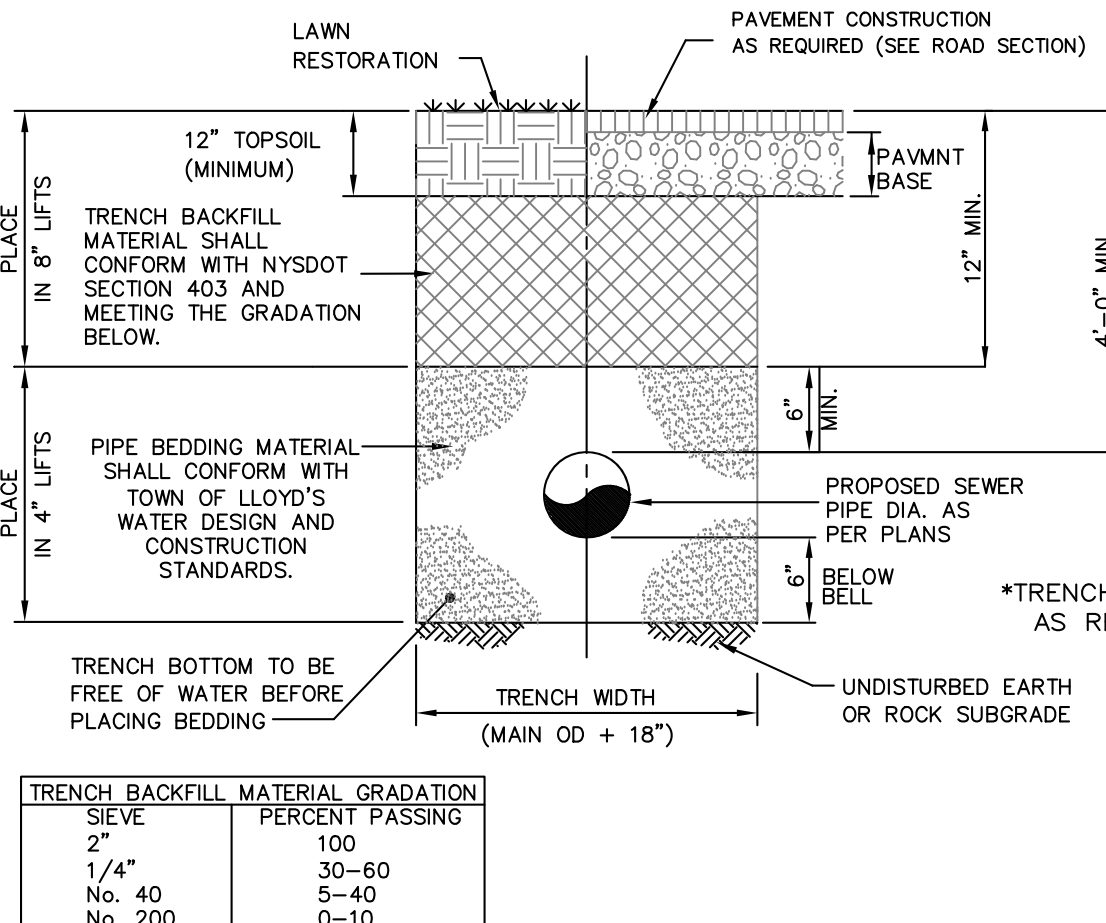
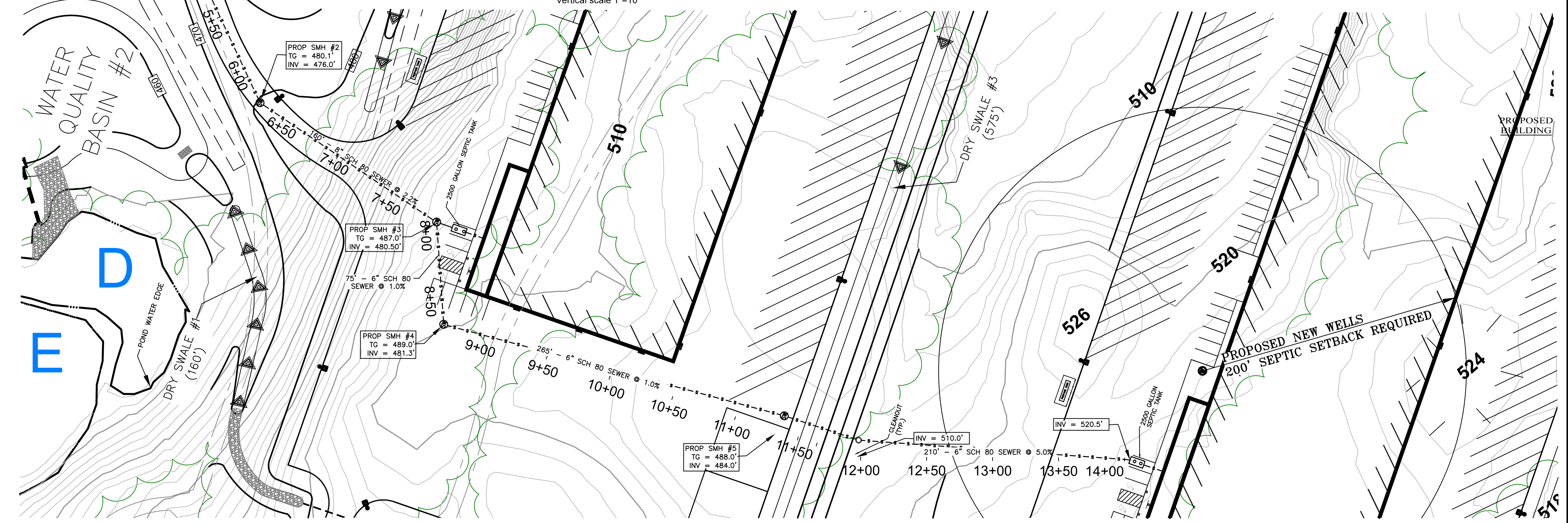
**TEST HOLE DATA**

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

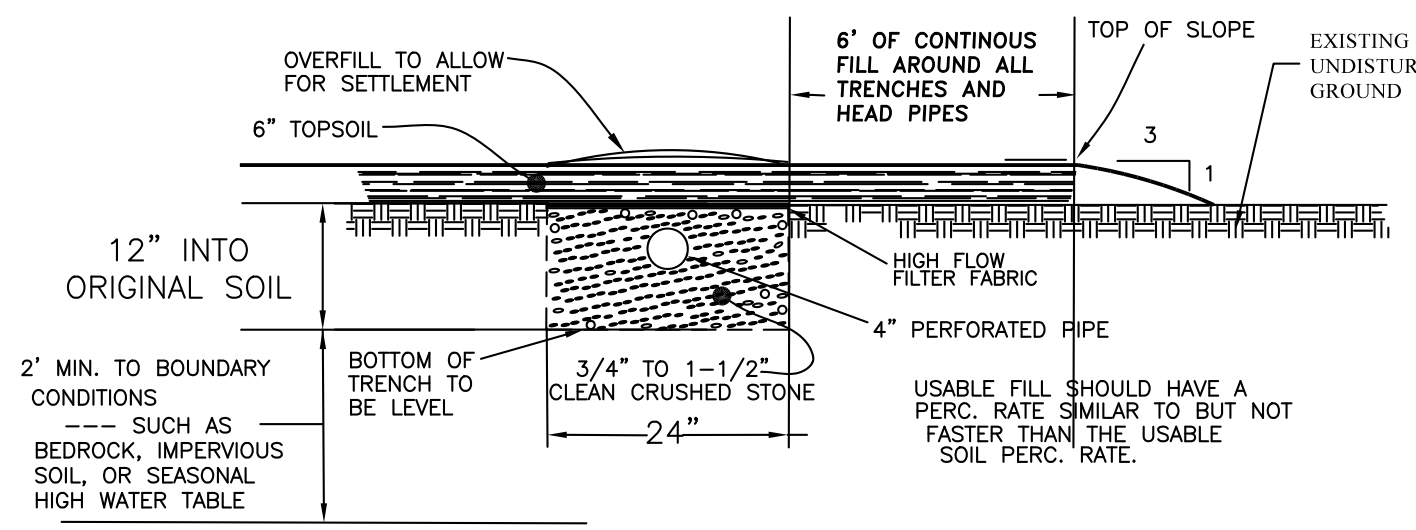
TEST HOLE	DEPTH	DESCRIPTION
1	0 TO 2"	TOPSOIL
	2" TO 40"	GRAVEL SILT LOAM W/ BROKEN BLUE STONE
	ROCK AT 40"	NO WATER MOTTLING
2	0 TO 2"	TOPSOIL
	2" TO 50"	GRAVEL SILT LOAM W/ BROKEN BLUE STONE
	ROCK AT 50"	NO WATER MOTTLING

**PERC HOLE DATA**

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



**1 TYPICAL SEWER TRENCH DETAIL**  
 NOT TO SCALE



**2 SHALLOW ABSORPTION TRENCH DETAIL**  
 NOT TO SCALE

**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'

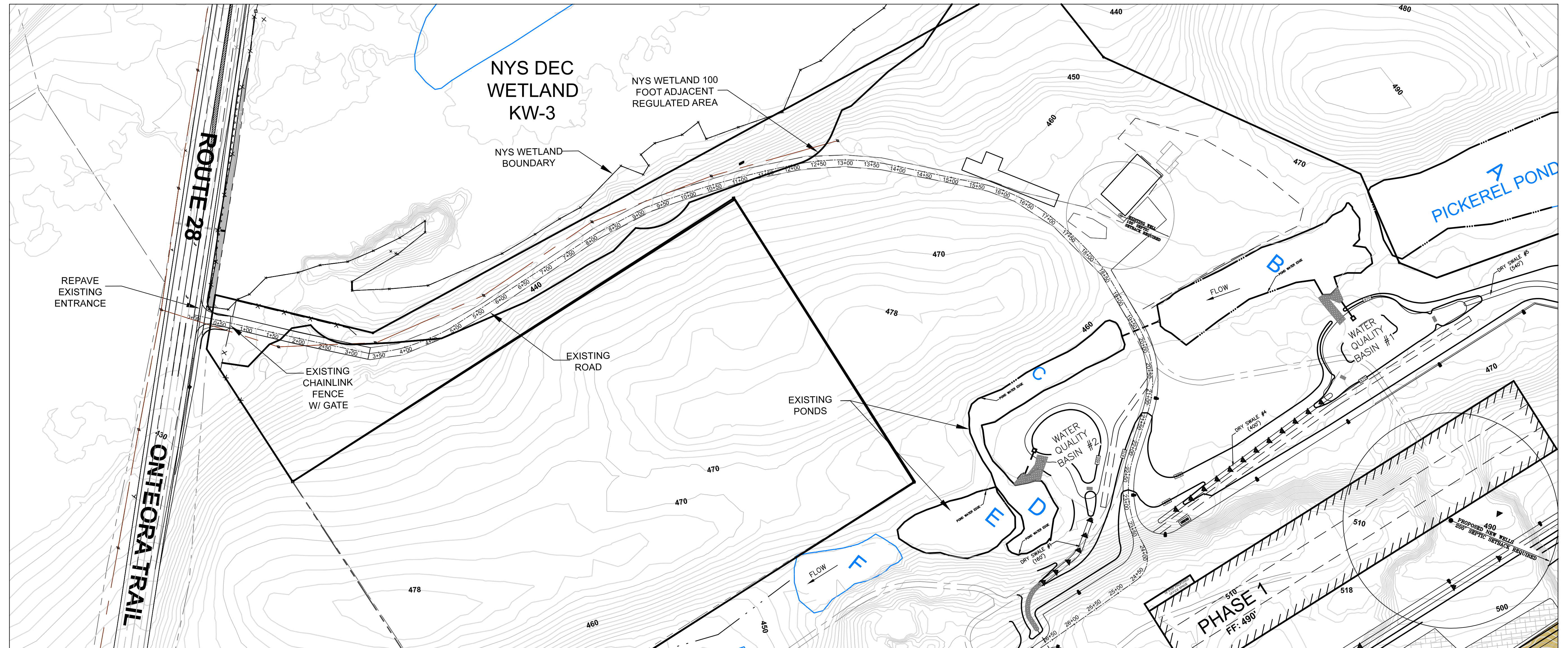
JANUARY 31, 2019

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 CIVIL ENGINEERING & LAND SURVEYING, P.C.  
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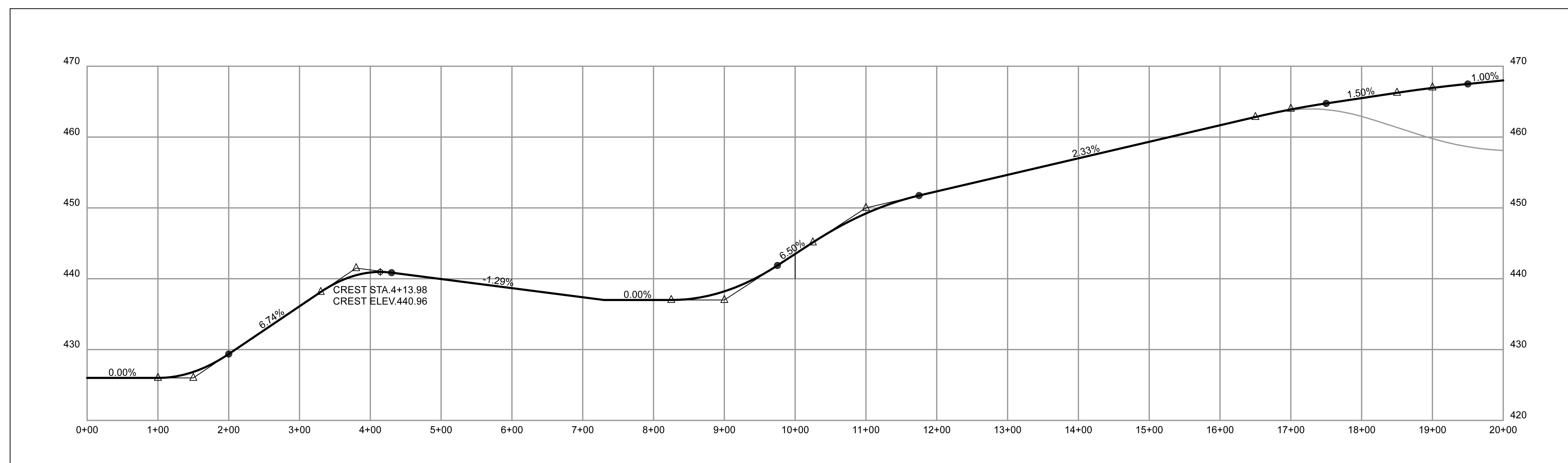
BARRY MEDENBACH, P.E.  
 NEW YORK LIC. NO. 60142

SEP-1  
 EIT 064  
**SHEET 8 OF 21**





**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

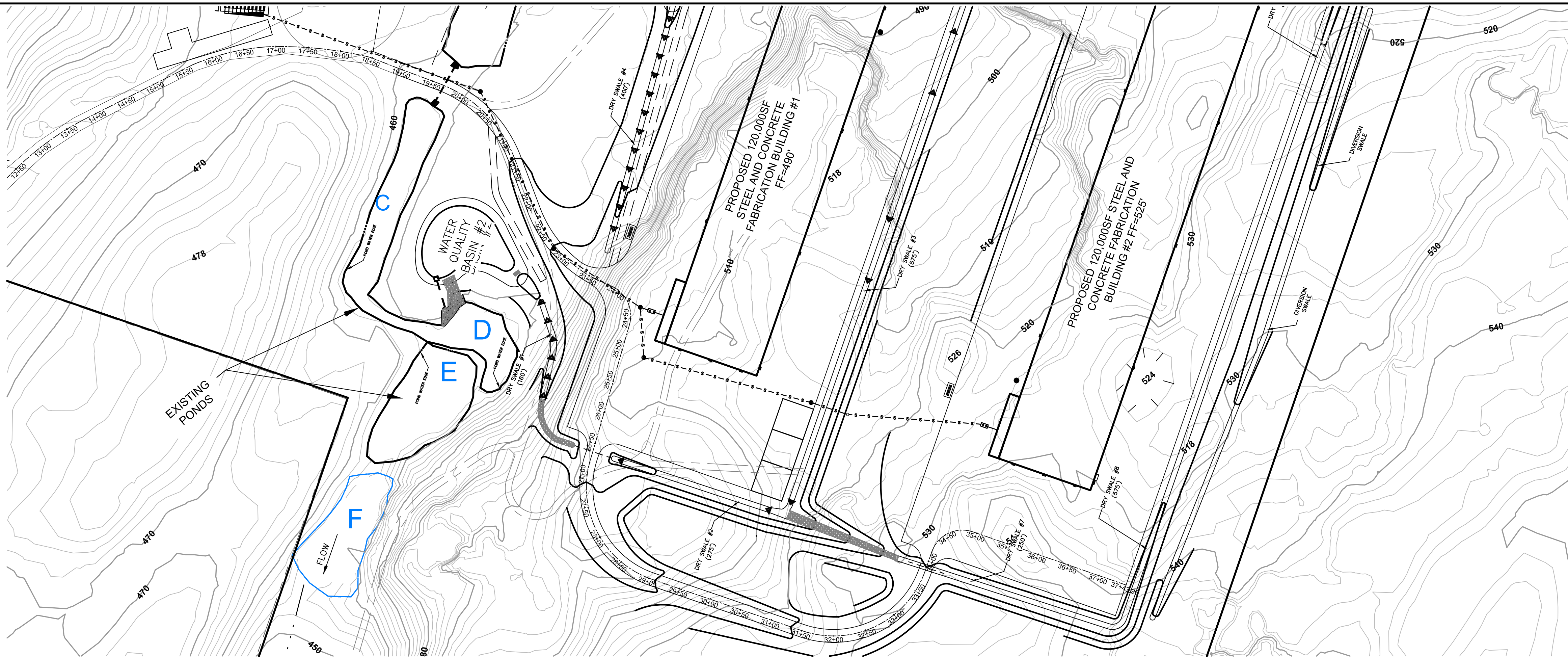
100 0 100 200 300  
Scale: 1" = 100'

JUNE 08, 2018  
**MEDENBACH & EGGERS**  
CIVIL ENGINEERING & LAND SURVEYING, P.C.  
STONE RIDGE, NEW YORK (845) 687-0047

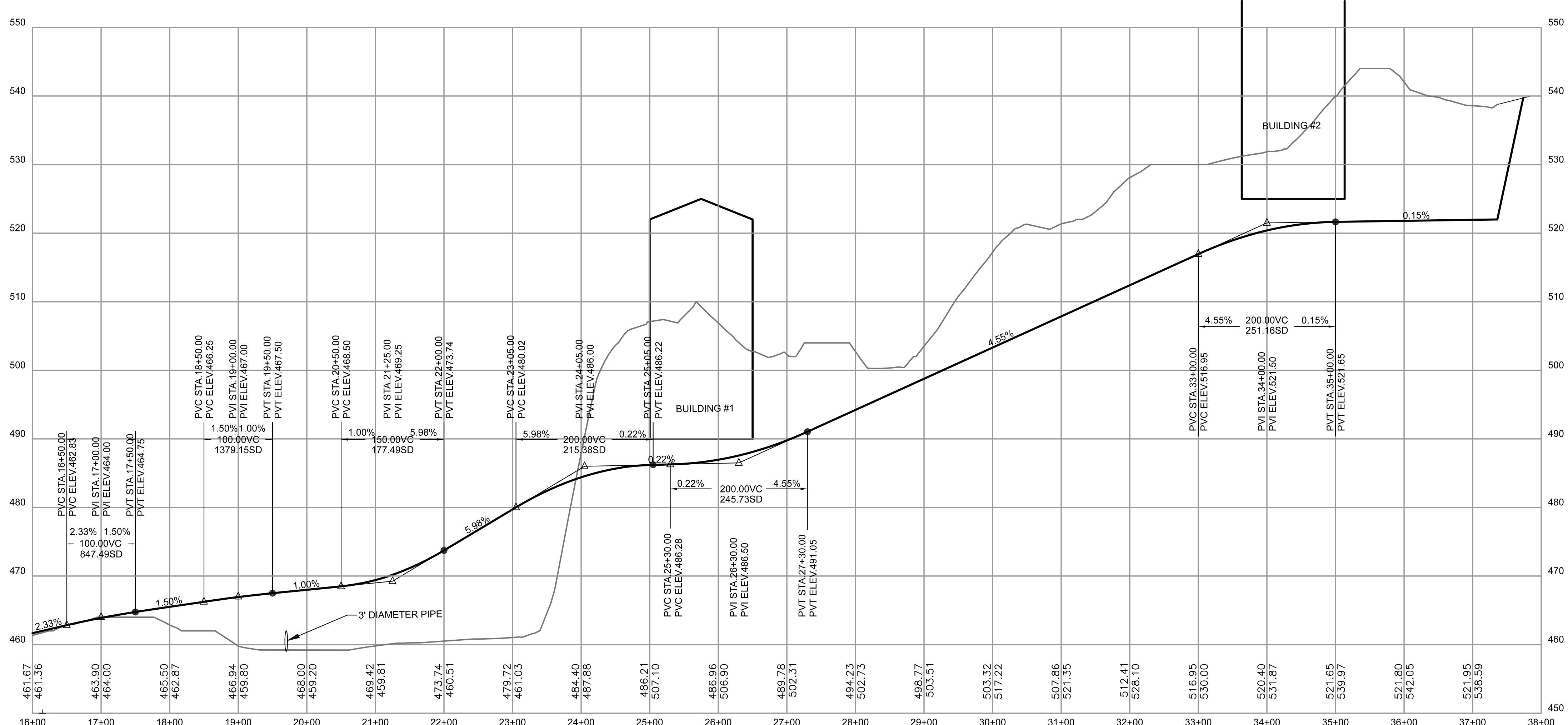
BARRY MEDENBACH, P.E.  
NEW YORK LIC. NO. 60142

RP-1  
EIT 064  
SHEET 9 OF 21





**PROPOSED ROAD PROFILE PLAN:**



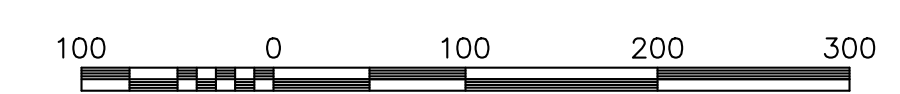
**EXISTING ROAD PROFILE: STATION 17+00 TO STATION 38+00**

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

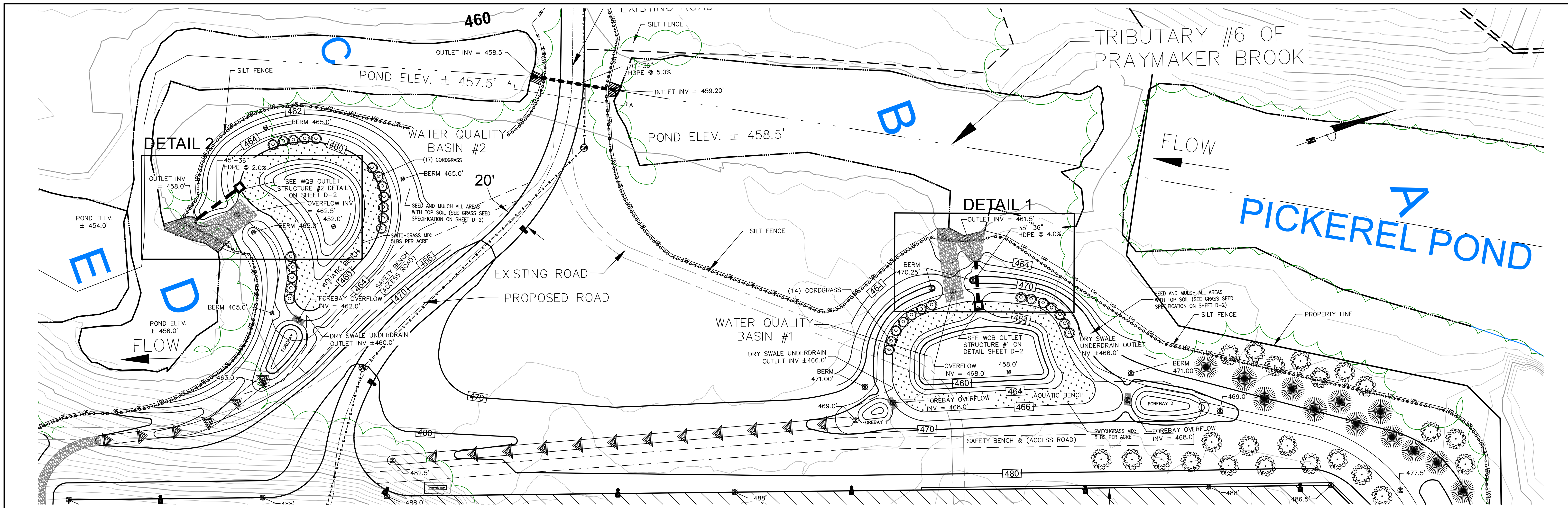


Scale: 1" = 100'

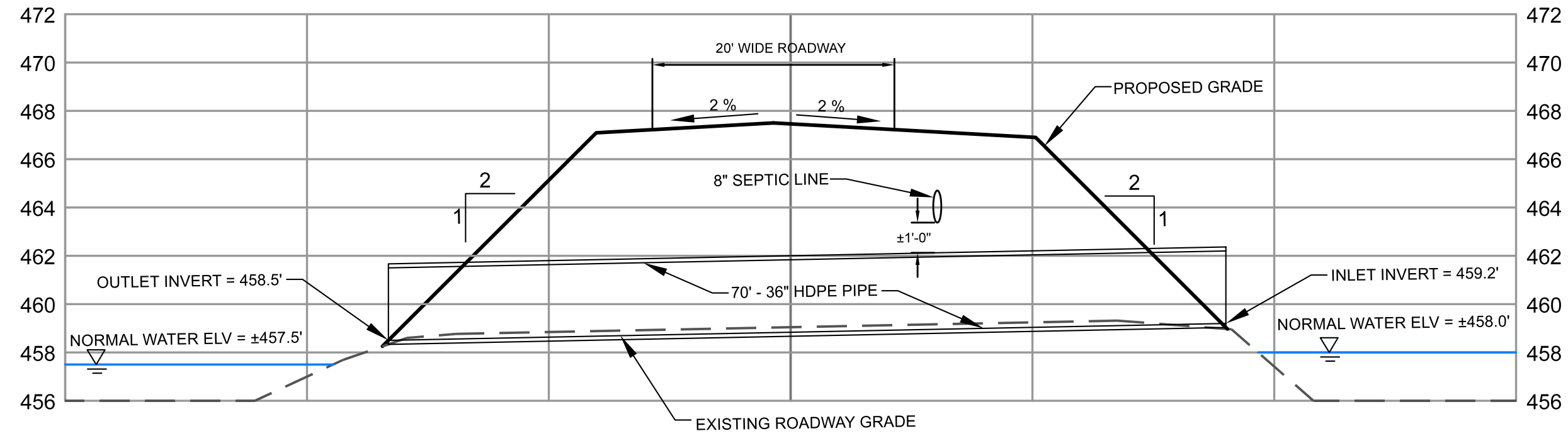
June 8, 2018

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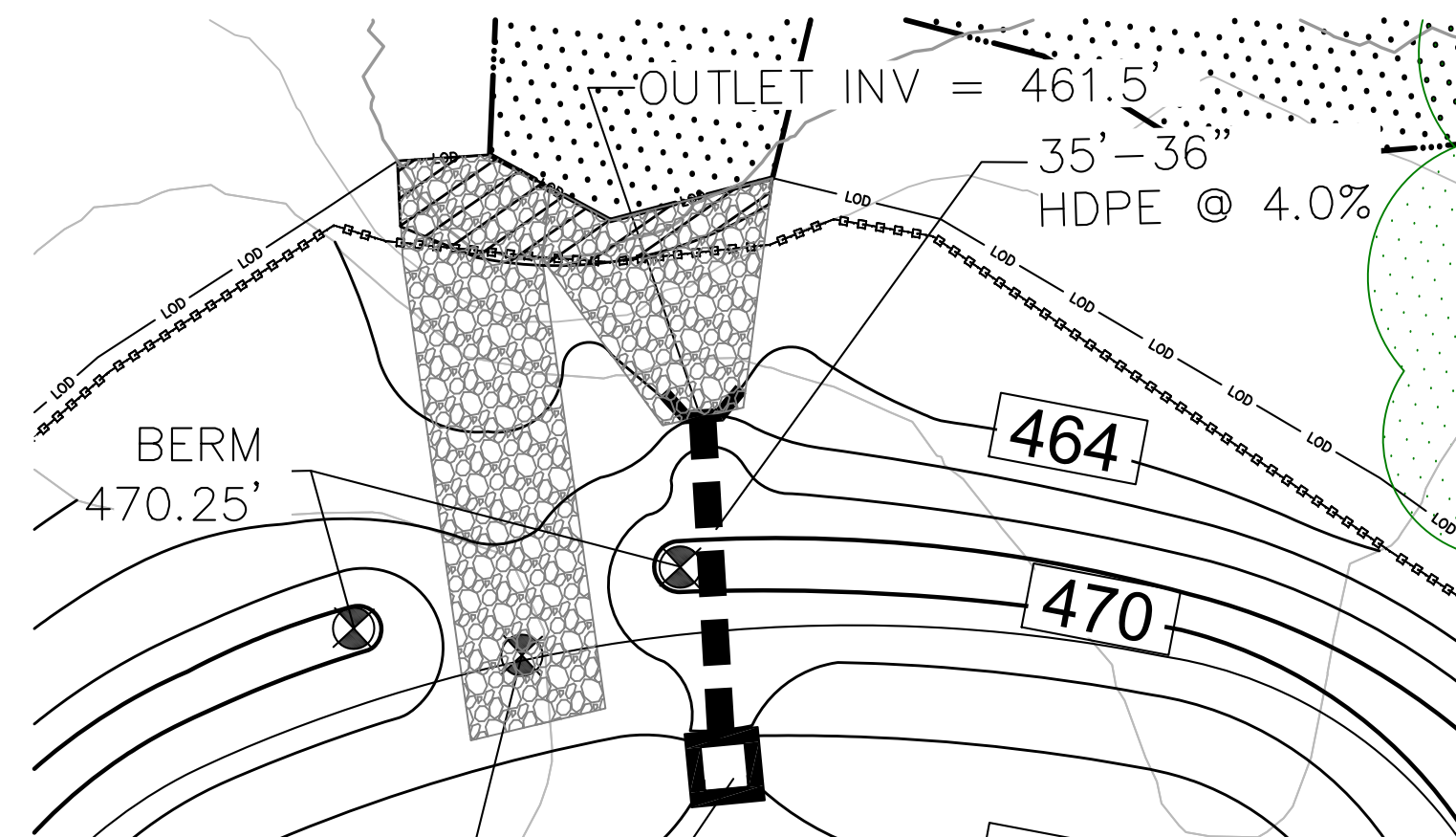


**WATER QUALITY BASIN PLAN**  
 TOTAL BANK DISTURBANCE = 1,000 SF

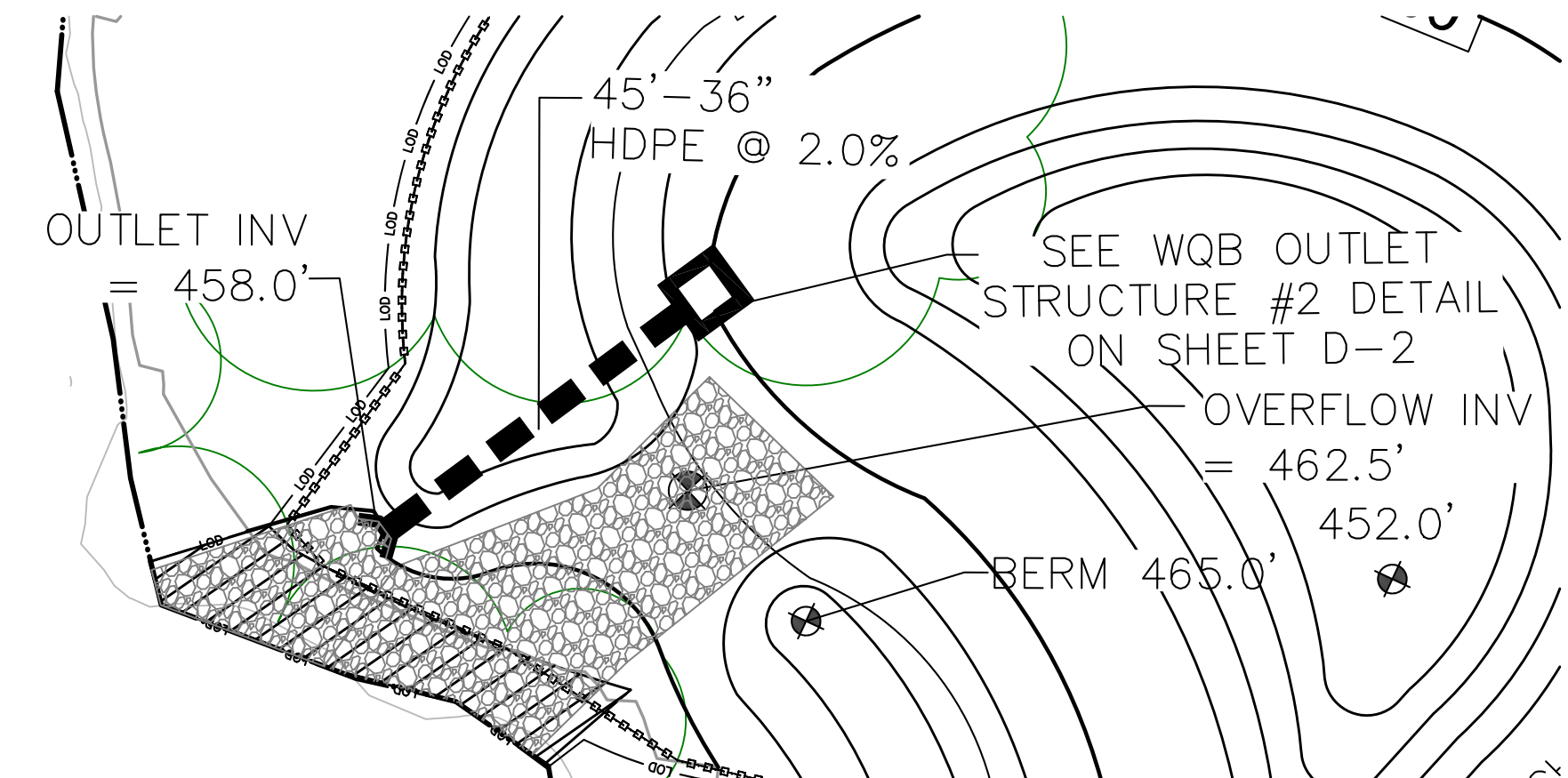


**SECTION A-A (PROPOSED STREAM CROSSING)**  
 HORIZONTAL SCALE: 1" = 10'  
 VERTICAL SCALE: 1" = 5'

- GENERAL NOTES:  
 1. THE STREAM BEING CROSSED IS TRIBUTARY #6 OF PRAYMAKER BROOK C(T) NO. H-171-25-5, 6  
 2. STREAM OVERFLOWS EXISTING ROADWAY DURING HEAVY RAIN EVENTS  
 3. SEE WATER QUALITY BASIN DETAILS ON SHEET D-2 (DRAINAGE DETAILS).



**1 OUTLET DETAIL #1**  
 SCALE: 1" = 20'



**2 OUTLET DETAIL #2**  
 SCALE: 1" = 20'

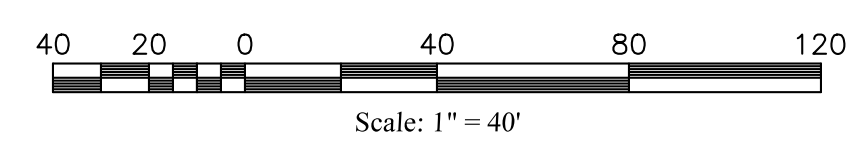
**STREAM DISTURBANCE NOTES**

- THE CONTRACTOR SHALL COMPLY WITH ALL PROVISIONS OF THE APPLICABLE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (N.Y.S.D.E.C.) WATER QUALITY CERTIFICATION PROGRAM. THE TRIBUTARY #6 OF PRAYMAKER BROOK IS PROTECTED BY THE N.Y.S.D.E.C. STRICT COMPLIANCE WITH THE N.Y.S.D.E.C. PERMIT IS REQUIRED. CONTRACTOR IS RESPONSIBLE FOR ANY VIOLATIONS OF PERMIT CONDITIONS.
- ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO PREVENT CONTAMINATION OF THE STREAMS BY SILT, SEDIMENT, FUELS, SOLVENTS, LUBRICANTS, EPOXY COATINGS, CONCRETE, LEACHATE, OR ANY OTHER POLLUTANT ASSOCIATED WITH THE CONSTRUCTION AND CONSTRUCTION PROCEDURES.
- DURING CONSTRUCTION, NO WET OR FRESH CONCRETE OR LEACHATE SHALL BE ALLOWED TO ESCAPE INTO THE WATERS OF NEW YORK STATE, NOR SHALL WASHINGS FROM CONCRETE TRUCKS, MIXERS OR OTHER DEVICES BE ALLOWED TO ENTER ANY WETLANDS OR WATERS.
- ANY DEBRIS OR EXCESS MATERIALS FROM CONSTRUCTION OF THIS PROJECT SHALL BE IMMEDIATELY AND COMPLETELY REMOVED FROM THE BED AND BANKS OF ALL WATER AREAS TO AN APPROPRIATE UPLAND AREA FOR DISPOSAL.
- ALL EXCAVATED MATERIAL SHALL BE DISPOSED OF ON AN UPLAND SITE AND BE SUITABLY STABILIZED SO THAT IT CANNOT REASONABLY REENTER ANY WATER BODY OR WETLAND AREA.
- ALL AREAS OF SOIL DISTURBANCE RESULTING FROM THIS PROJECT SHALL BE SEEDDED WITH PERENNIAL GRASS SEED AND MULCHED WITH HAY OR STRAW WITHIN ONE (1) WEEK OF FINAL GRADING. IF CONSTRUCTION ACTIVITIES ARE DISCONTINUED IN AREAS OF SOIL DISTURBANCE BEFORE FINAL GRADING IS COMPLETE, TEMPORARY GRADING SHALL ALSO BE SEEDDED AND MULCHED. MULCH SHALL BE MAINTAINED UNTIL SUITABLE VEGETATIVE COVER IS ESTABLISHED.
- PERIODIC CLEANING OF TEMPORARY SOIL EROSION AND POLLUTION CONTROL DEVICES MAY BE NECESSARY AS REQUESTED BY THE PROJECT ENGINEER.
- IN THE EVENT DEWATERING OPERATIONS BECOME NECESSARY, A SETTLING BASIN WILL BE REQUIRED UNLESS THE PUMP DISCHARGE IS AS CLEAR AND FREE OF SEDIMENT AS THE FLOWING STREAM. LOCATION AND DESIGN TO BE APPROVED BY THE PROJECT ENGINEER.
- HAYBALES HAVE A LIMITED LIFE EXPECTANCY AND SHALL BE REPLACED IN LOCATIONS WHERE THEY HAVE BEEN IN USE FOR EXTENDED PERIODS AS DIRECTED BY THE PROJECT ENGINEER.
- ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING DITCHES, STORM DRAINS, OR WATER COURSES.
- EROSION CONTROL MEASURES SHALL BE DEEMED INCLUDED UNDER THE BID ITEMS FOR THE PROPOSAL. NO SEPARATE PAYMENT SHALL BE MADE FOR THIS WORK.
- THIS PROJECT CONTAINS NY STATE REGULATED WATERCOURSE TRIBUTARY #6 OF PRAYMAKER BROOK C(T) NO. H-171-25-5, 6, SUBJECT TO REGULATION UNDER ARTICLE 15, TITLE 5, USE AND PROTECTION OF WATERS OF THE ENVIRONMENTAL CONSERVATION LAW. THERE SHALL BE NO CONSTRUCTION, GRADING, FILLING, EXCAVATING, CLEARING, OR OTHER REGULATED ACTIVITY AS DEFINED BY ARTICLE 15 ON THIS PROPERTY WITHOUT HAVING FIRST SECURED THE NECESSARY PERMIT REQUIRED FROM THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION.

SHRUB & PERENNIAL SCHEDULE				
SYMBOL	SPECIES	COMMON NAME	QUANTITY	SIZE UPON PLANTING
⊙	Spartina Pectinata	Cordgrass	31	3 Gal. Cont.

MAP REVISION DATES		
DATE	REVISION	BY
03/05/2019	REVISED OUTLETS FROM PROPOSED WQBS	CC
05/14/2019	ADDED LANDSCAPING TO WQBS	CC
11/26/2019	ADDED PROPOSED TREES	CC
02/25/2020	REVISED TREES	CC

**STREAM PROTECTION PLAN**  
 FOR  
**850 ROUTE 28 LLC**  
 TOWN OF KINGSTON  
 ULSTER COUNTY NEW YORK



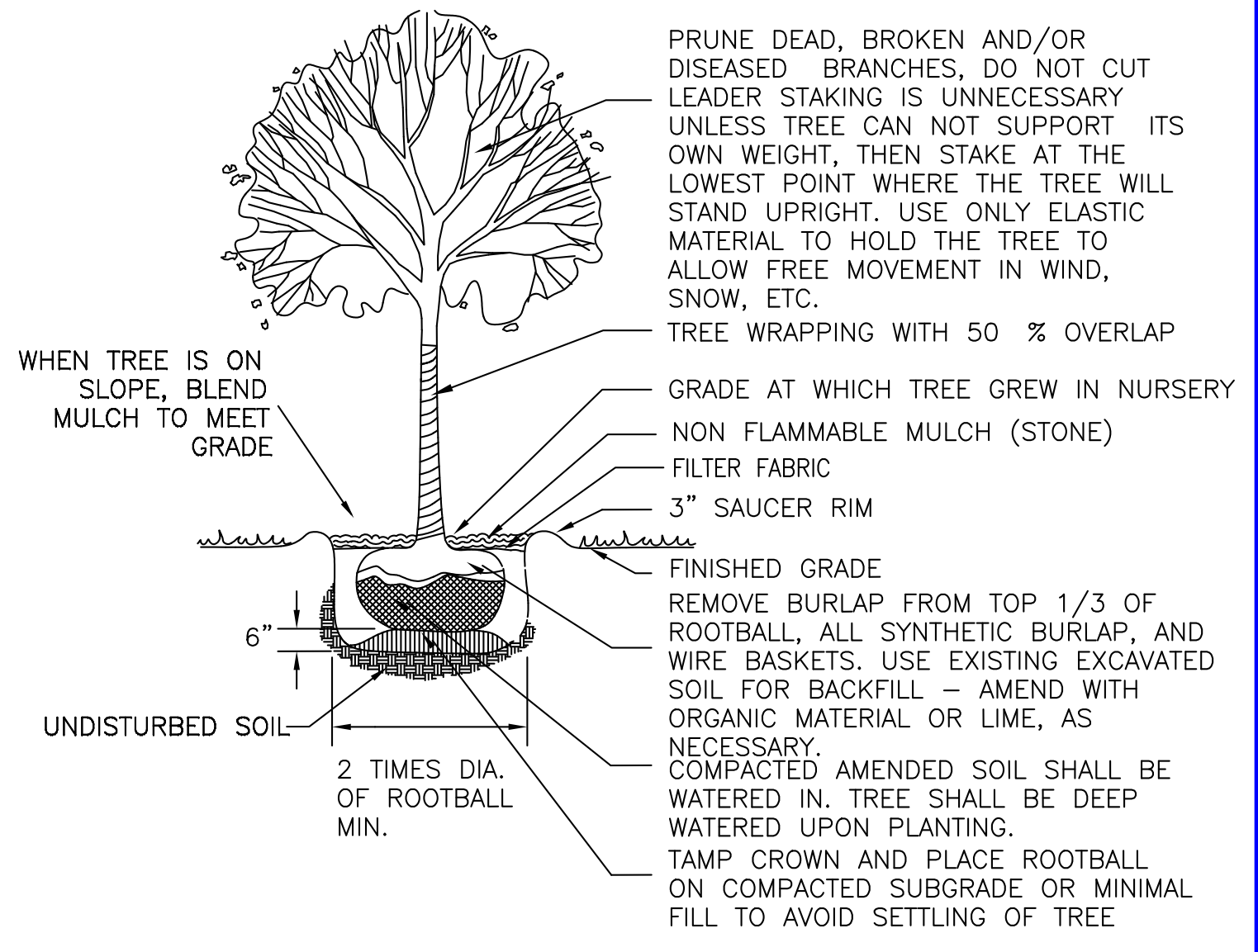
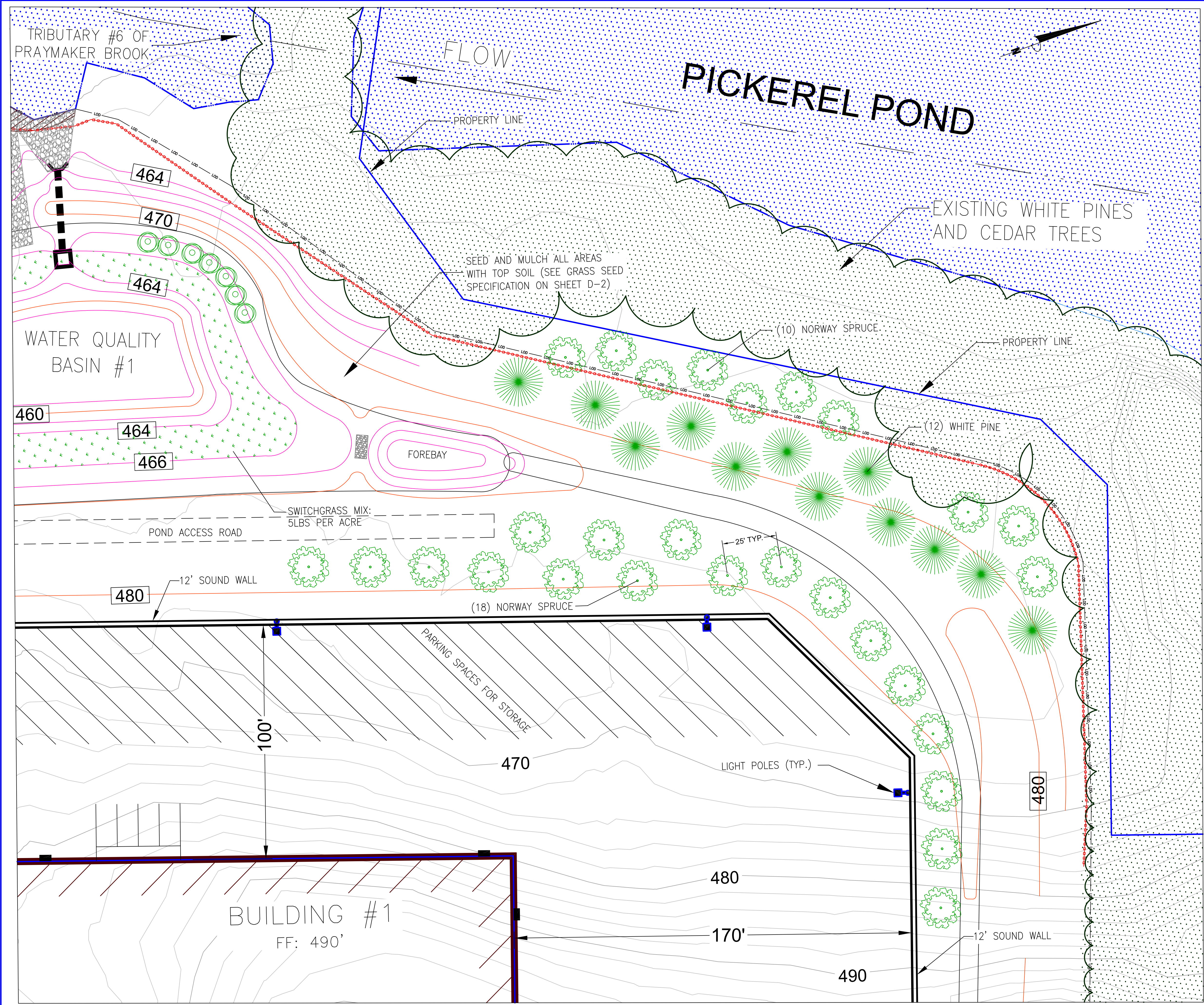
JANUARY 31, 2019

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 Dig With Care  
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**SHRUB & PERENNIAL SCHEDULE**

SYMBOL	SPECIES	COMMON NAME	QUANTITY	SIZE UPON PLANTING	HEIGHT UPON PLANTING
	Pinus Strobus	White Pine	12	2-1/2" - 3" Caliper	±8'
	Picea abies	Norway Spruce	28	2-1/2" - 3" Caliper	±8'

**MAP REVISION DATES**

DATE	REVISION	BY

**LANDSCAPING PLAN**

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

20 0 20 40 60  
Scale: 1" = 20'

FEBRUARY 25, 2020

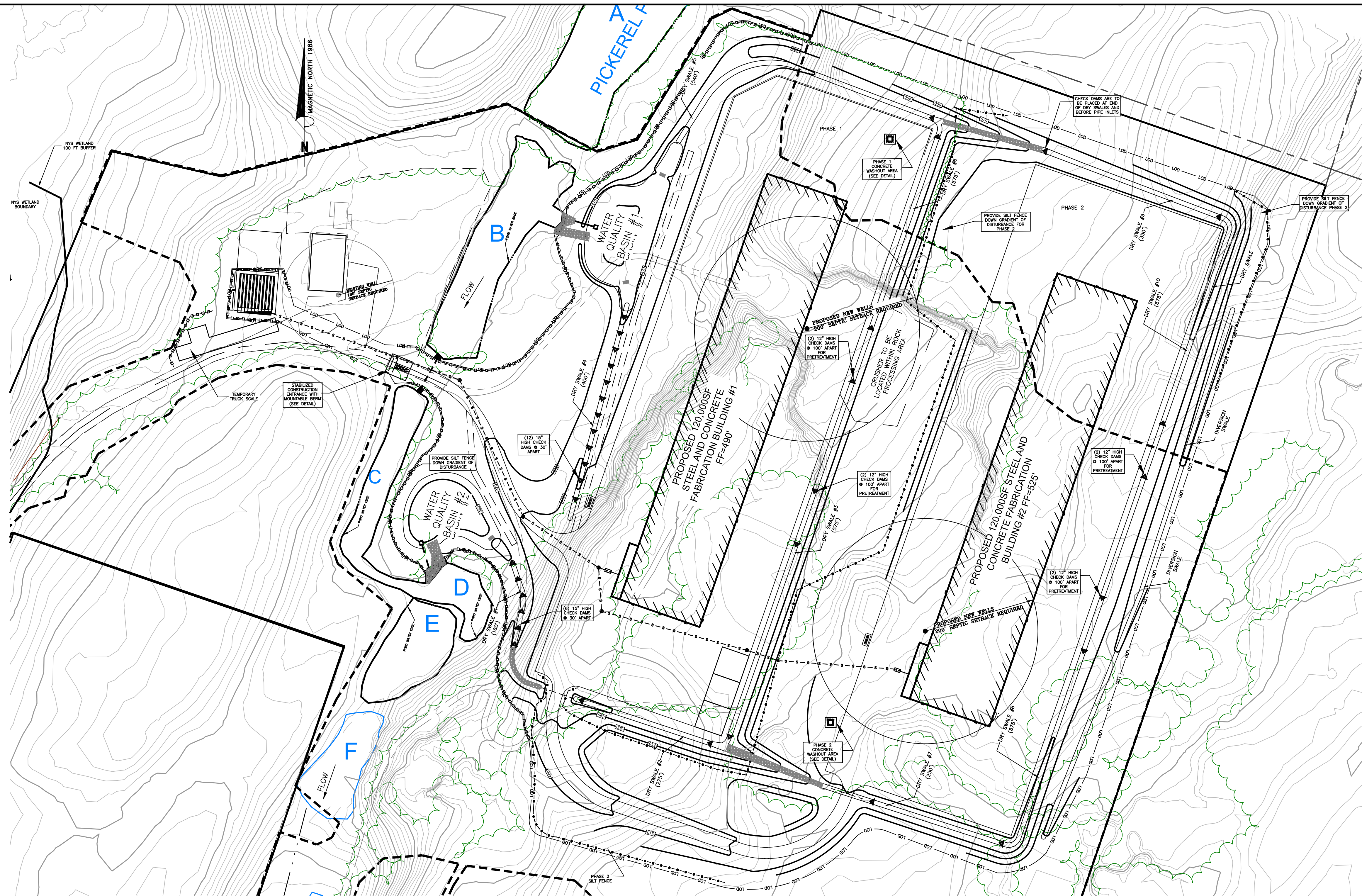
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LSP-1  
EIT 064  
SHEET 12 OF 21





- 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 commences 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 eastwest 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
02-25-2020	REVISED CHECK DAM NOTES	CC

**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 OR FILTER SOCK (PHASE 1)
  - SILT FENCE OR FILTER SOCK (PHASE 2)
  - LIMIT OF DISTURBANCE
  - INLET SEDIMENT TRAP

**SOIL EROSION AND SEDIMENT CONTROL**

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

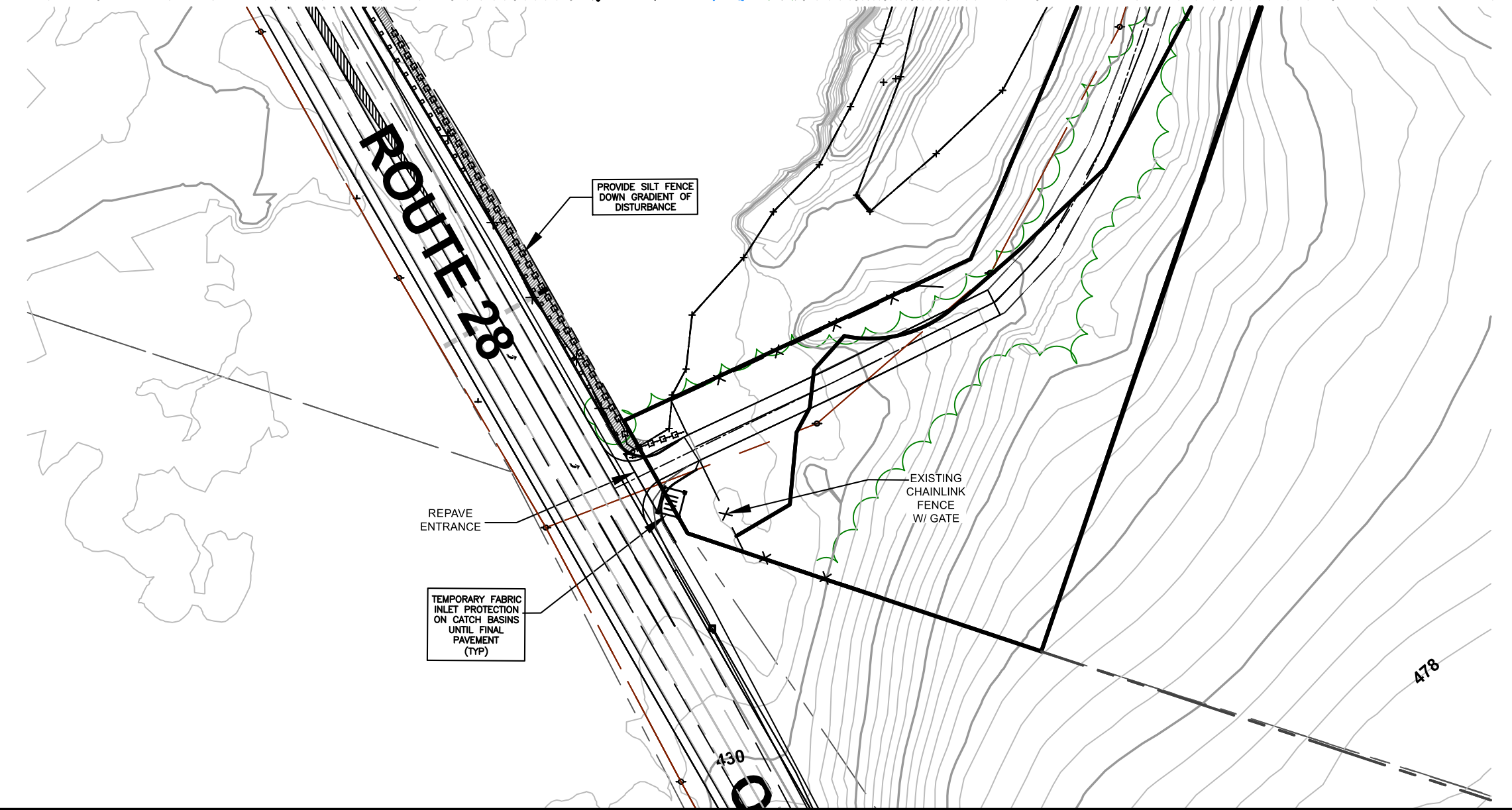
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 Scale: 1" = 100'  
 JANUARY 31, 2019

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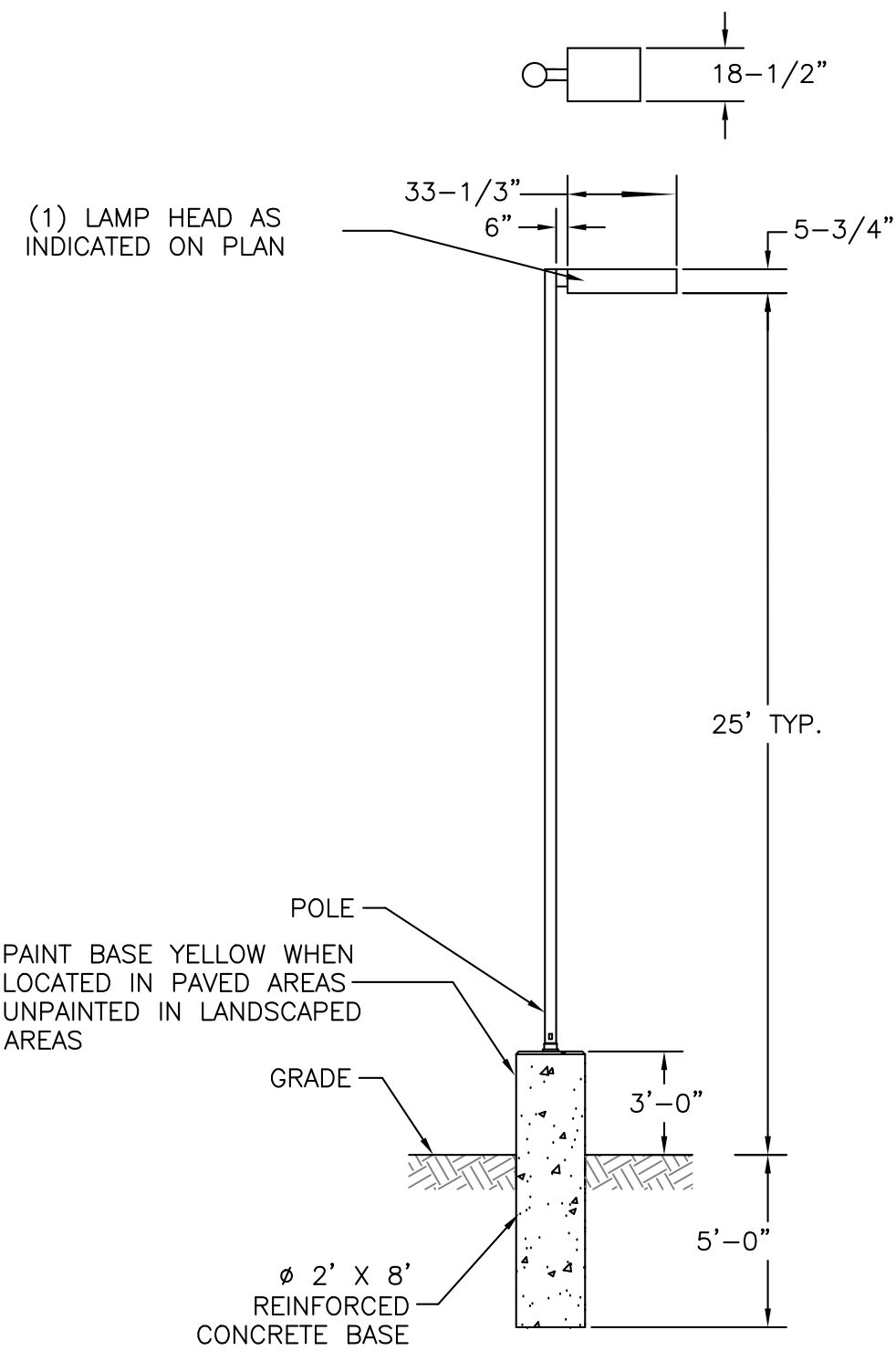
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SHEET 13 OF 21







**CSX2 LED LED Area Luminaire**



**Specifications**

EPA: 1.2 ft<sup>2</sup> (0.11 m<sup>2</sup>)  
 Length: 34-1/3" (877 mm)  
 Width: 18-1/2" (468 mm)  
 Height: 5-3/4" (144 mm)  
 Weight: 59 lbs (26.8 kg)  
 (max):



Ordering 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.

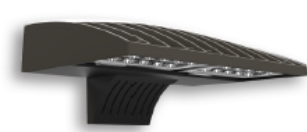
**Ordering Information**

EXAMPLE: CSX2 LED 120C 1000 40K T5M 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  
 OPTIONS TO INCLUDE HOUSE-SIDE SHIELDING AND MUST BE DIMMABLE

**D-Series Size 1 LED Wall Luminaire**



**d-series**

**Specifications Luminaire**

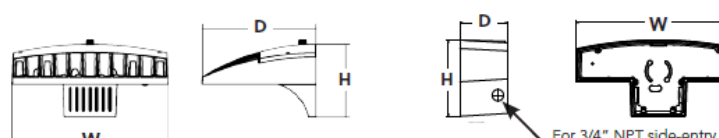
Width: 13-3/4" (34.9 cm)  
 Depth: 10" (25.4 cm)  
 Height: 6-3/8" (16.2 cm)

Weight: 12 lbs (5.4 kg)

**Back Box (BBW, ELCW)**

Width: 13-3/4" (34.9 cm)  
 Depth: 4" (10.2 cm)  
 Height: 6-3/8" (16.2 cm)

Weight: 5 lbs (2.3 kg)  
 Weight: 10 lbs (4.5 kg)

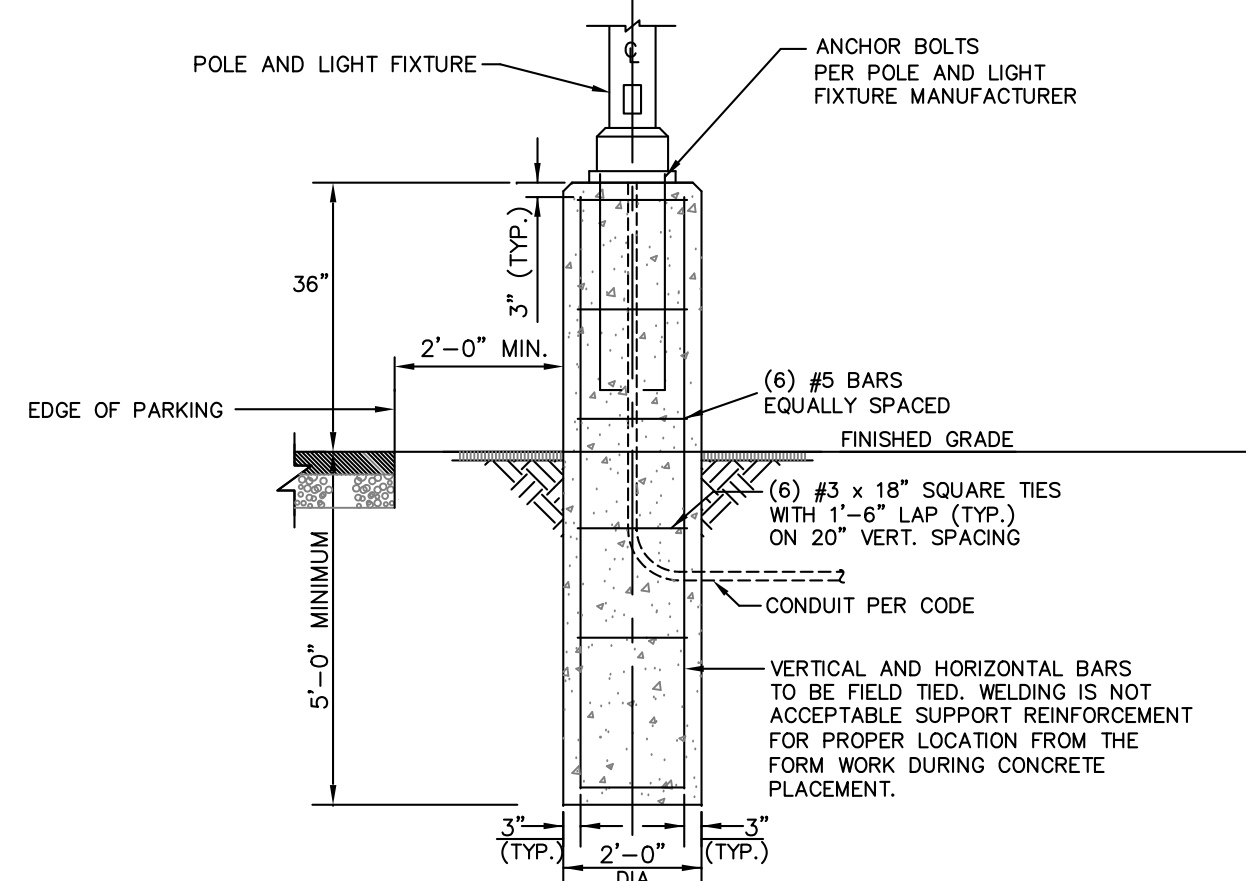


**Ordering Information**

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

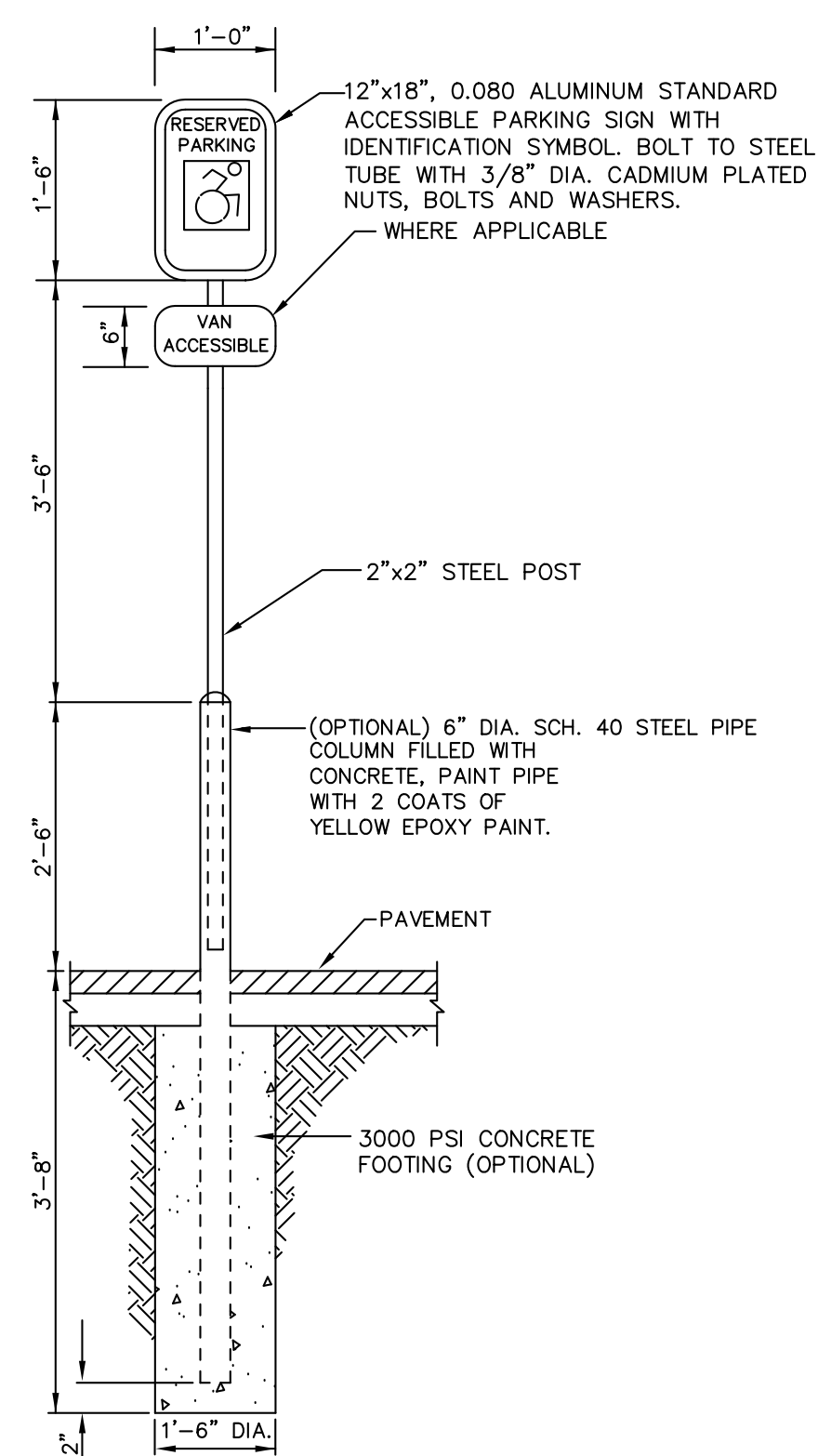
**2 WALL MOUNTED LIGHT DETAIL (FIXTURE C)**

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

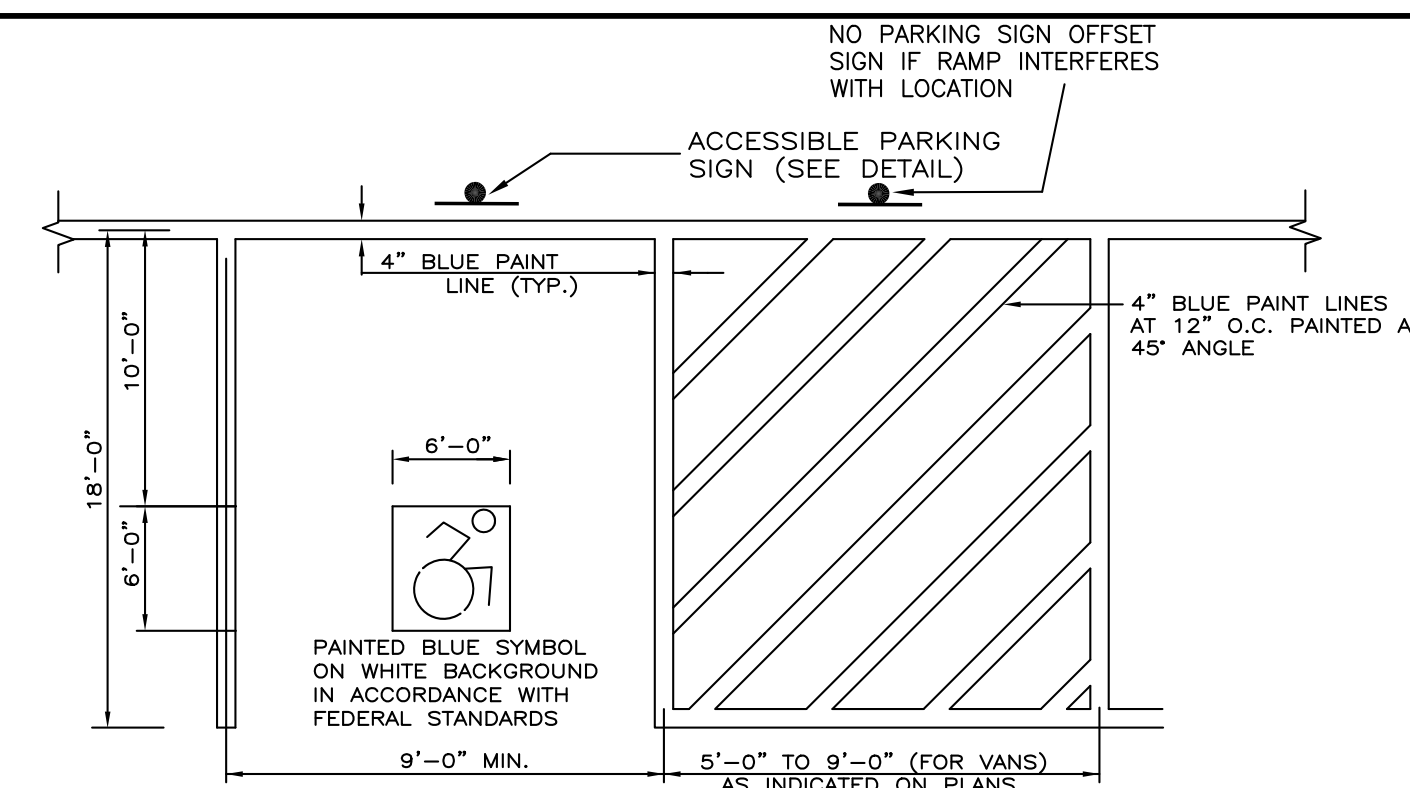


**NOTES:**  
 1. 3500 PSI MIN 28 DAY COMPRESSIVE STRENGTH CONCRETE WITH GRADE 60 REINFORCING STEEL.  
 2. EXPOSED CONCRETE AND GROUT SHALL BE PAINTED. COLOR AND PAINT TYPE IS TO BE SELECTED BY THE ARCHITECT.

**3 TYPICAL LIGHT BASE**



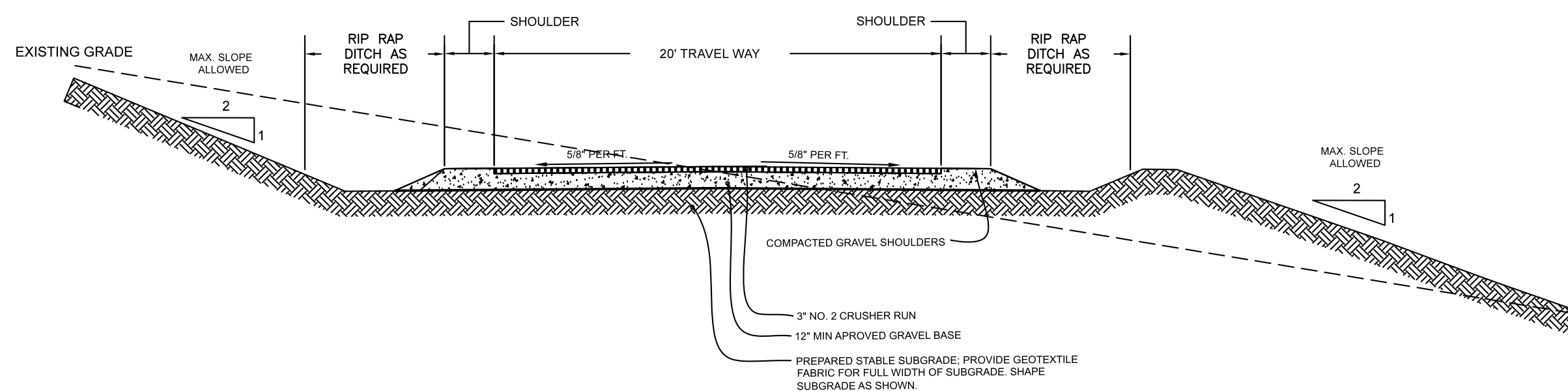
**4 TYPICAL ACCESSIBLE PARKING SIGN NOT TO SCALE**



**6 ACCESSIBLE PARKING SPACE DETAIL NOT TO SCALE**



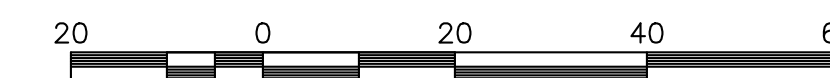
**7 R3-8 NO PARKING SIGN DETAIL NOT TO SCALE**



**5 TYPICAL ROAD SECTION NOT TO SCALE**

MAP REVISION DATES		
DATE	REVISION	BY
01/15/2019	ADDED ROAD SECTION DETAIL	CC
02/25/2020	ADDED LIGHT POLE FIXTURES ARE TO BE DIMMABLE	CC

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



Scale: 1" = 20'  
 JUNE 8, 2018

**MEDENBACH & EGGERS**  
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**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, water main, catch basin, manhole etc. whether or not shown on the drawings shall be protected from damage.
- 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:**

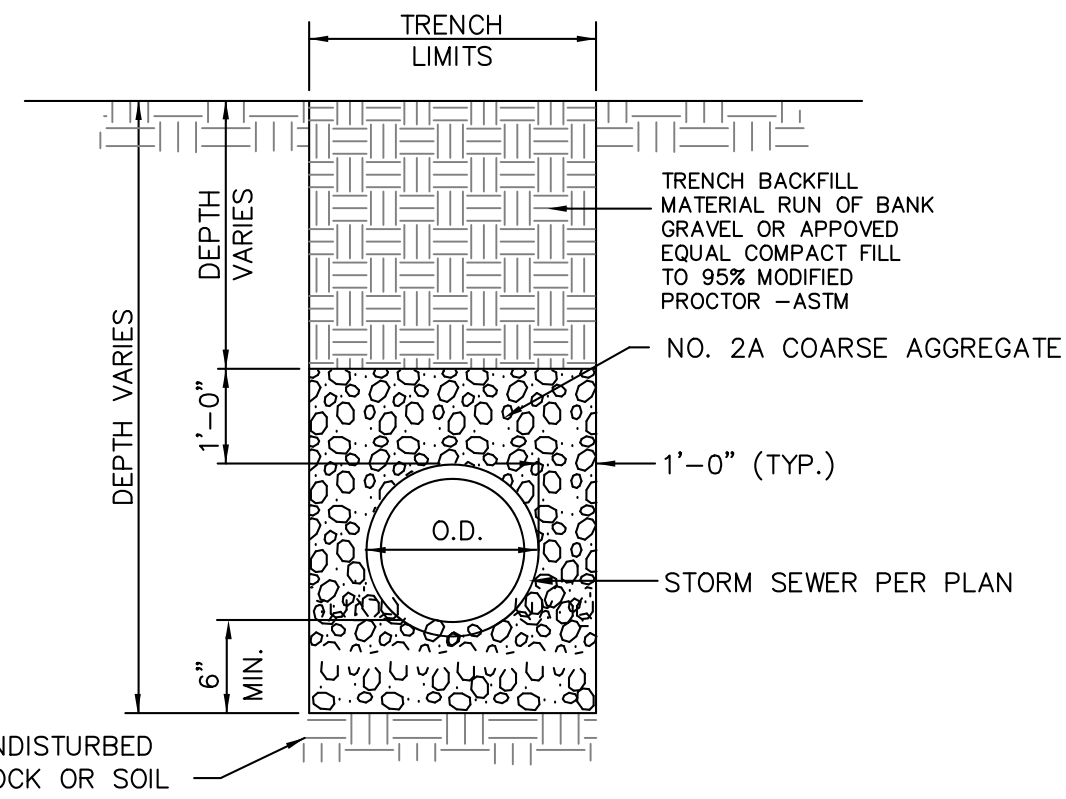
- Prior to site disturbance the contractor shall install required erosion & sediment control measures.
- Strip all topsoil prior to commencing earthwork operations. Topsoil may be stored and reused in lawn, dry swales and planting areas only.
- Excavation shall be carried to the lines, grades and slopes 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:**

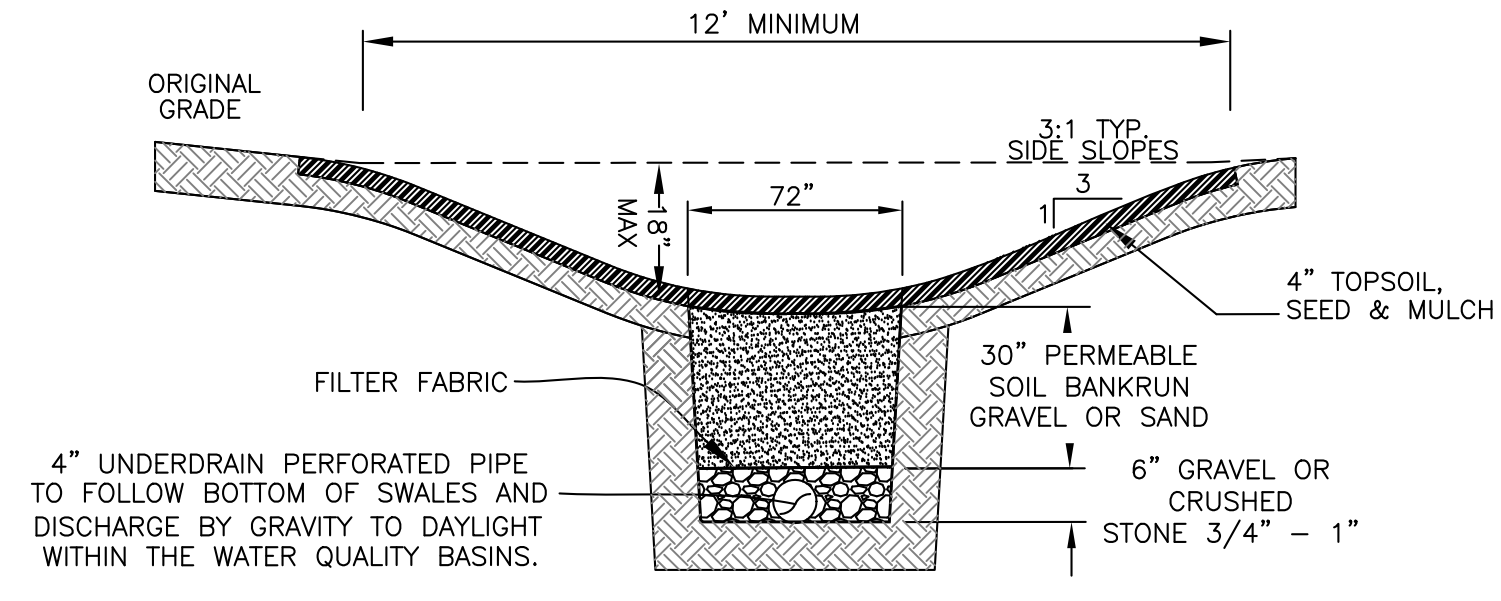
- Selected bedding (as specified on the utility trench sections hereon) shall be provided for the construction of pipe foundations at those locations where the foundations or excavated material, or any portion thereof deemed to be unsuitable for supporting the pipe or structure, or for back filling the 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:**

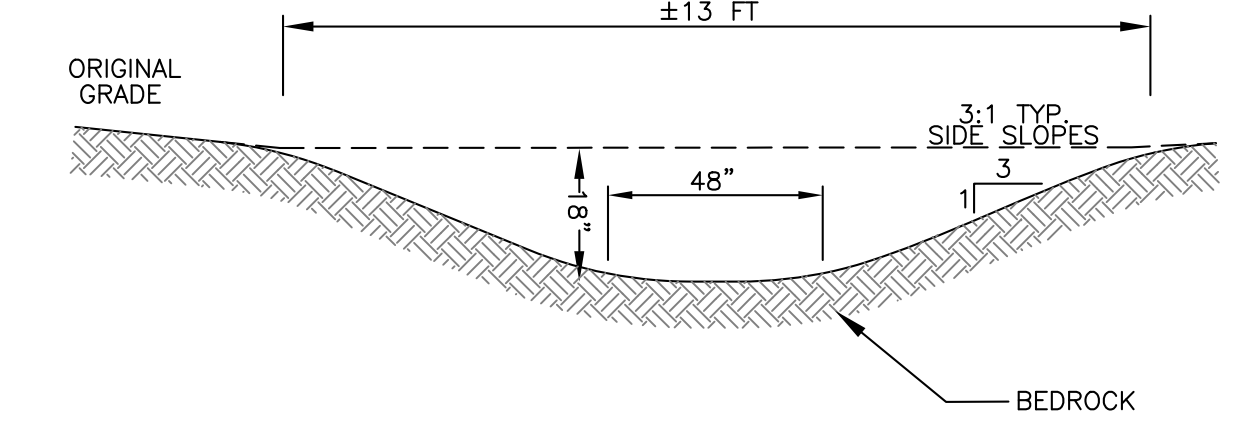
- All storm sewer pipe shall be smooth interior HDPE pipe unless noted otherwise.
- HDPE end sections shall be provided on all drainage pipe inlets or outlets not connected to catch basins or other drainage structures. All outlets shall also be stabilized with rip-rap as per plans.
- All concrete chambers 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.



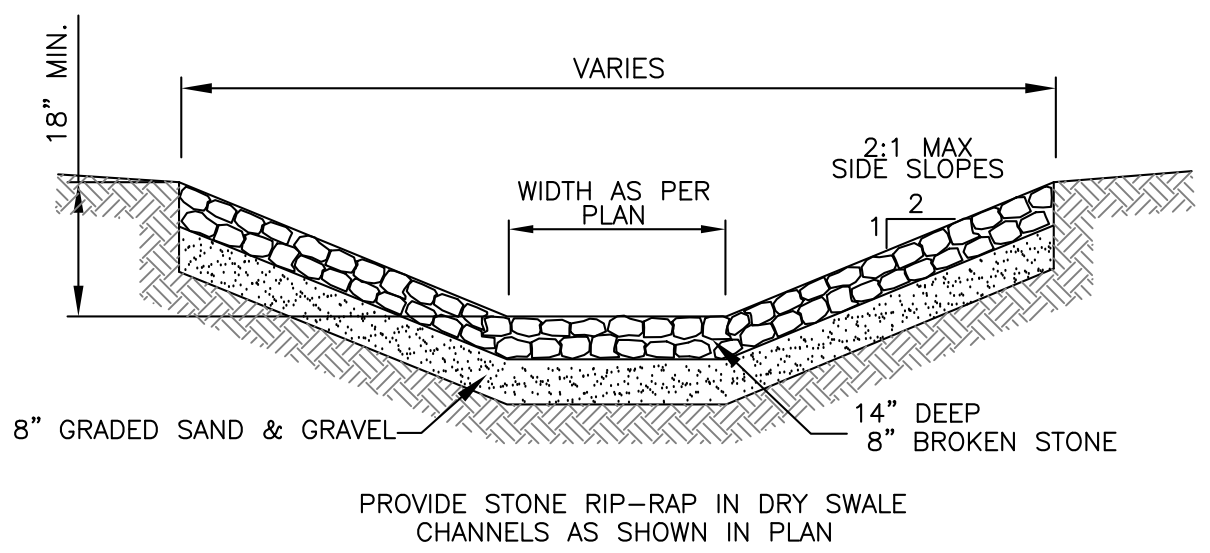
**1 TYPICAL DRAINAGE TRENCH DETAIL**  
NOT TO SCALE



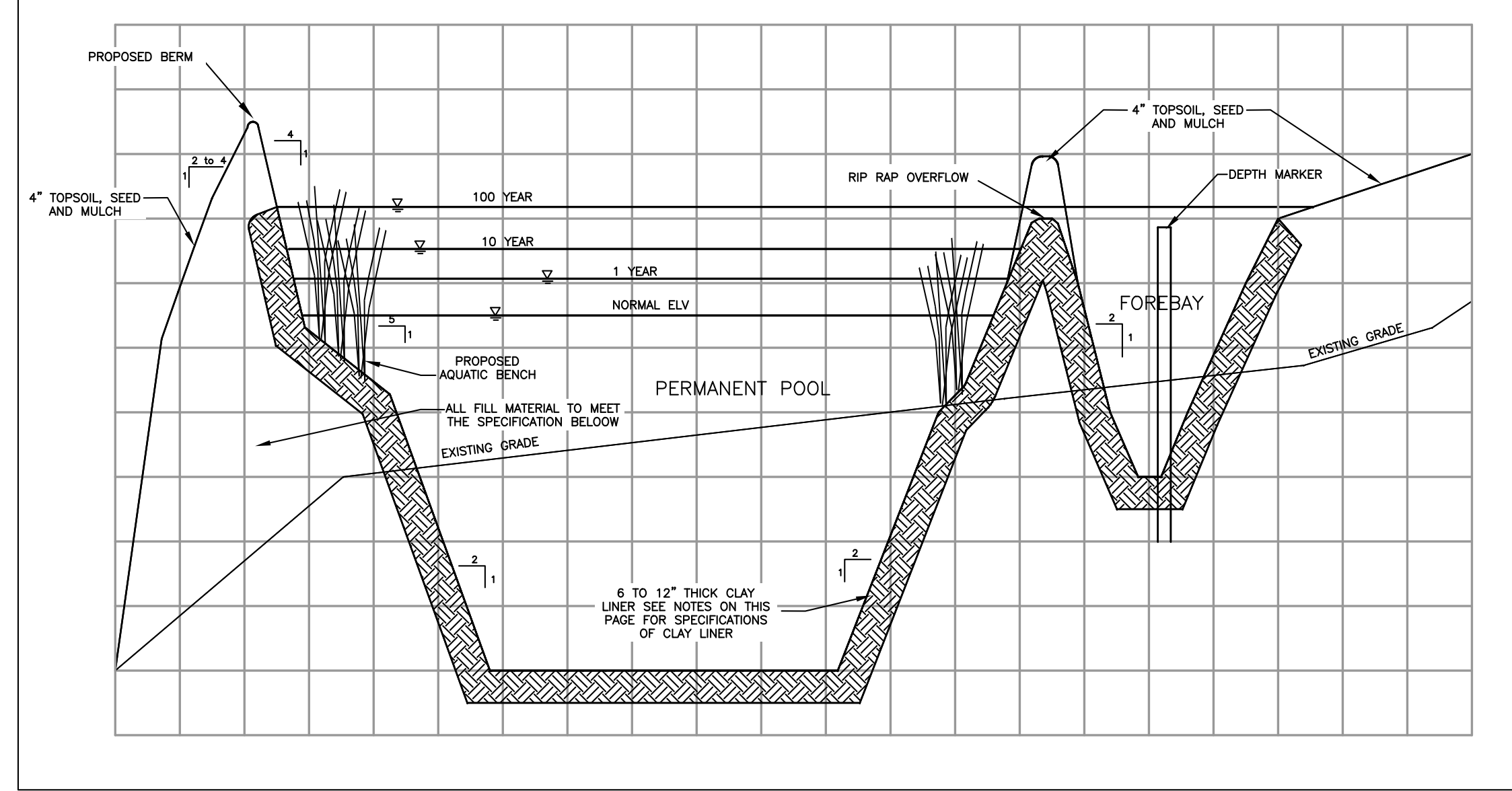
**4 DRY SWALE TYPICAL-SECTION**  
NOT TO SCALE



**7 DIVERSION SWALE-SECTION**  
NOT TO SCALE



**2 RIP RAP PROTECTION FOR DRY SWALES**  
NOT TO SCALE

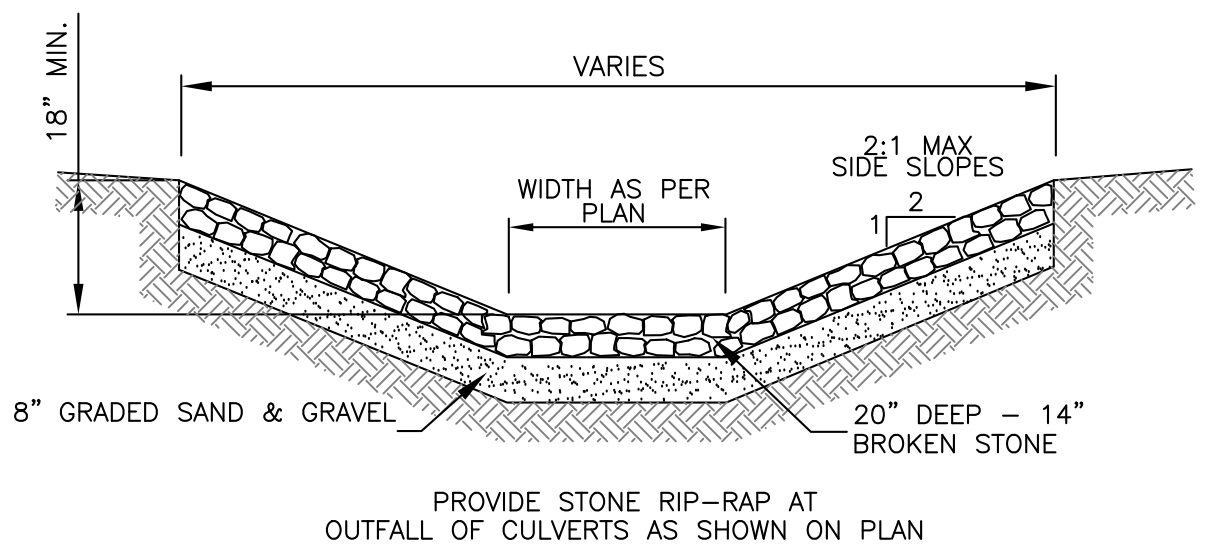


**8 TYPICAL WATER QUALITY BASIN SECTION**  
NOT TO SCALE

**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
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	78.4%	6 LBS./1000 S.Y.	SEE NOTE 1 BELOW	800 LBS./1000 S.Y.	9/1 TO 10/15
PERMANENT	TALL FESCUE (VAR. KENTUCKY 31)	83.5%	7.5 LBS./1000 S.Y.	SEE NOTE 1 BELOW	800 LBS./1000 S.Y.	4/8/10/15
	BIRDSFOOT TREFLO MIX REDTOP	**78.4%	2.0 LBS./1000 S.Y.	SEE NOTE 1 BELOW	800 LBS./1000 S.Y.	4/8/10/15
		73.6%	1.0 LBS./1000 S.Y.			

- 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 IBDU 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.
- ALL AREAS RECEIVING SEEDING SHALL HAVE A MINIMUM OF 4" OF ORGANIC TOPSOIL (750 LBS./1000 S.Y.). MULCH TO BE ANCHORED WITH WOOD CELLULOSE FIBER AT 750 LBS./AC. OR EQUAL.
  - BLUEGRASS MIX: A COMBINATION OF CERTIFIED VARIETIES EACH AT 25% OR LESS OF MIX.
  - \*\* MINIMUM 20% HARDEED AND 60% NORMAL SPROUTS.

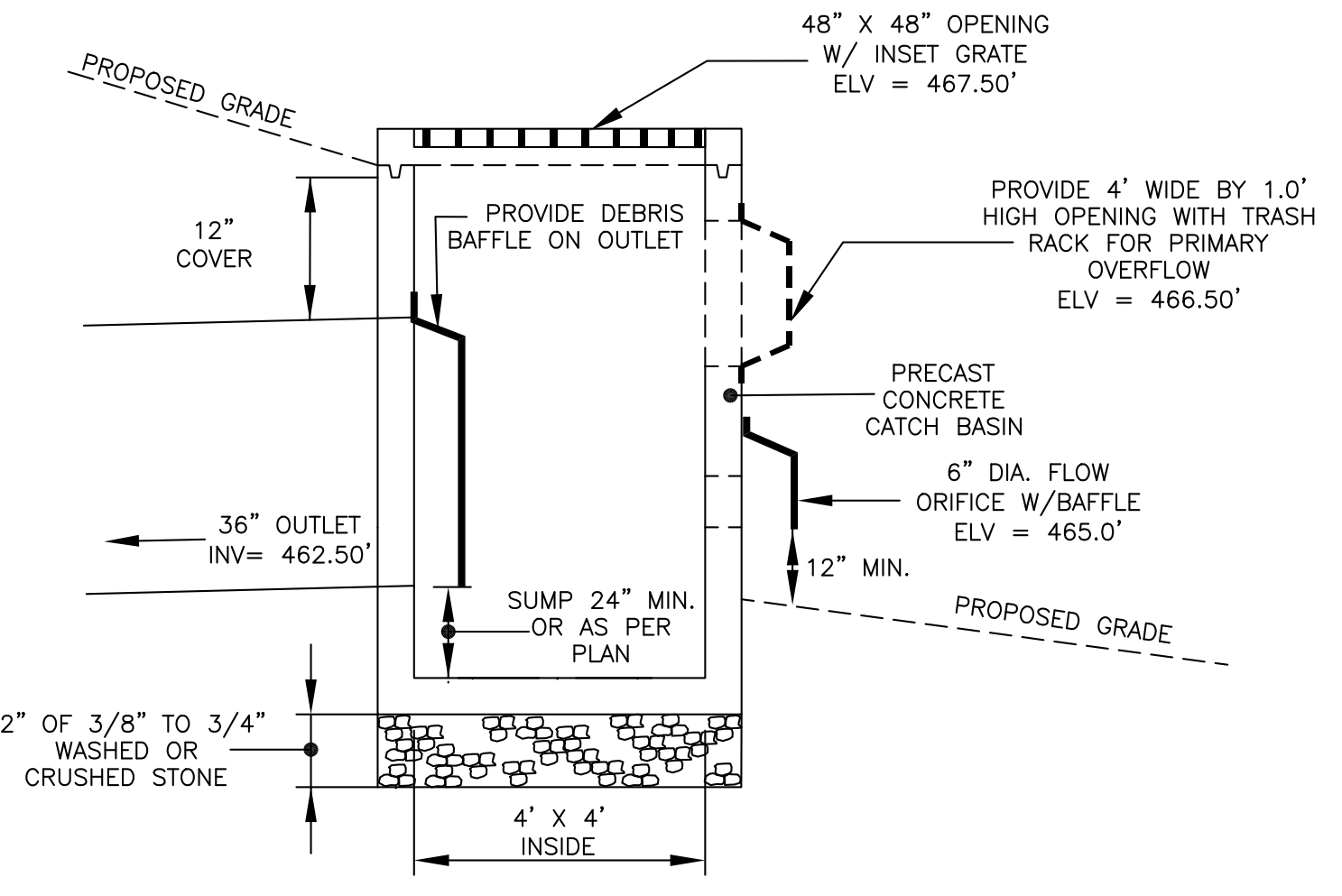


**3 RIP RAP PROTECTION FOR WQB OUTLETS**  
NOT TO SCALE

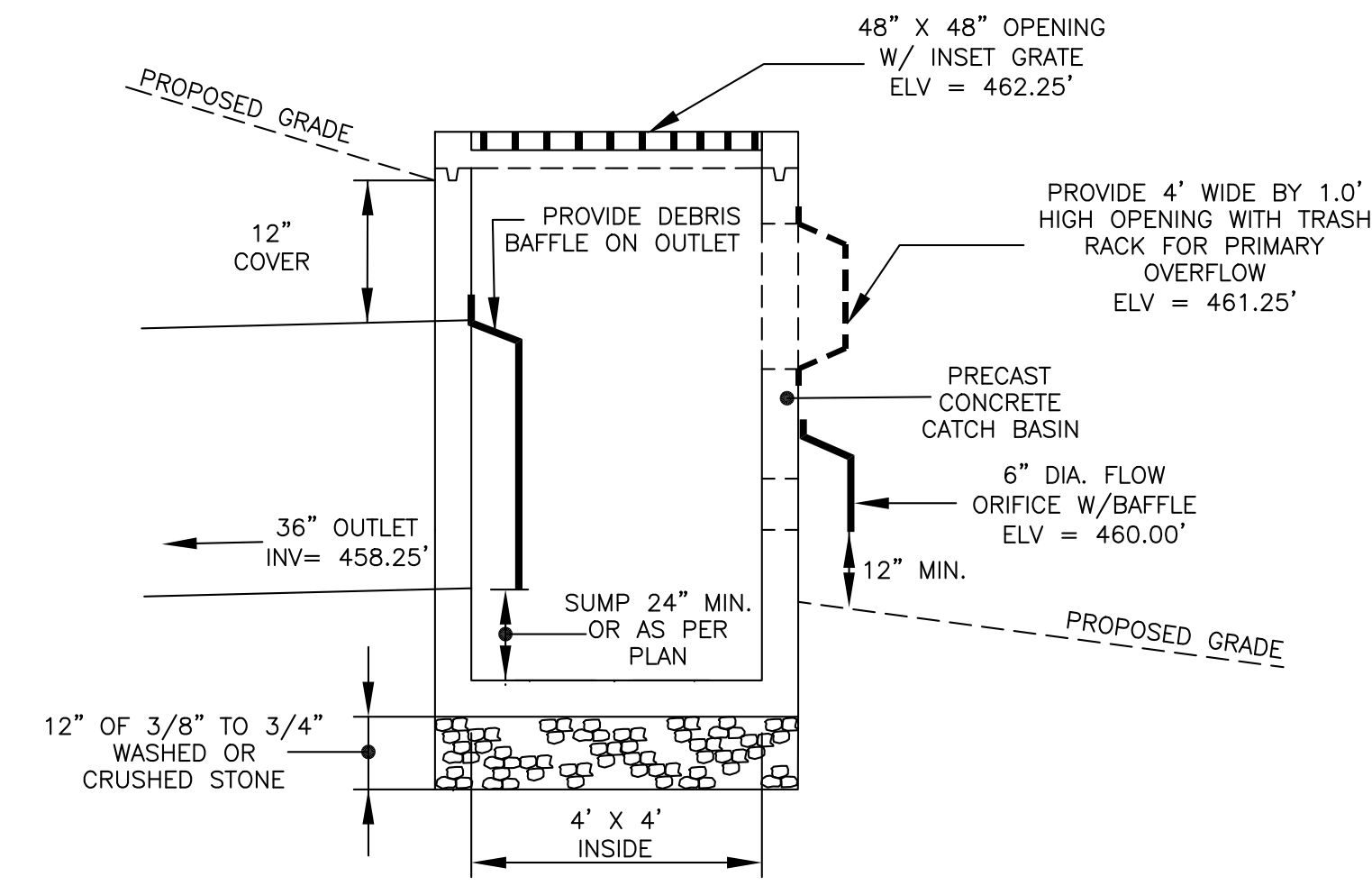
**Notes For Water Quality Basins (Stormwater Ponds)**

**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, stubs, 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.

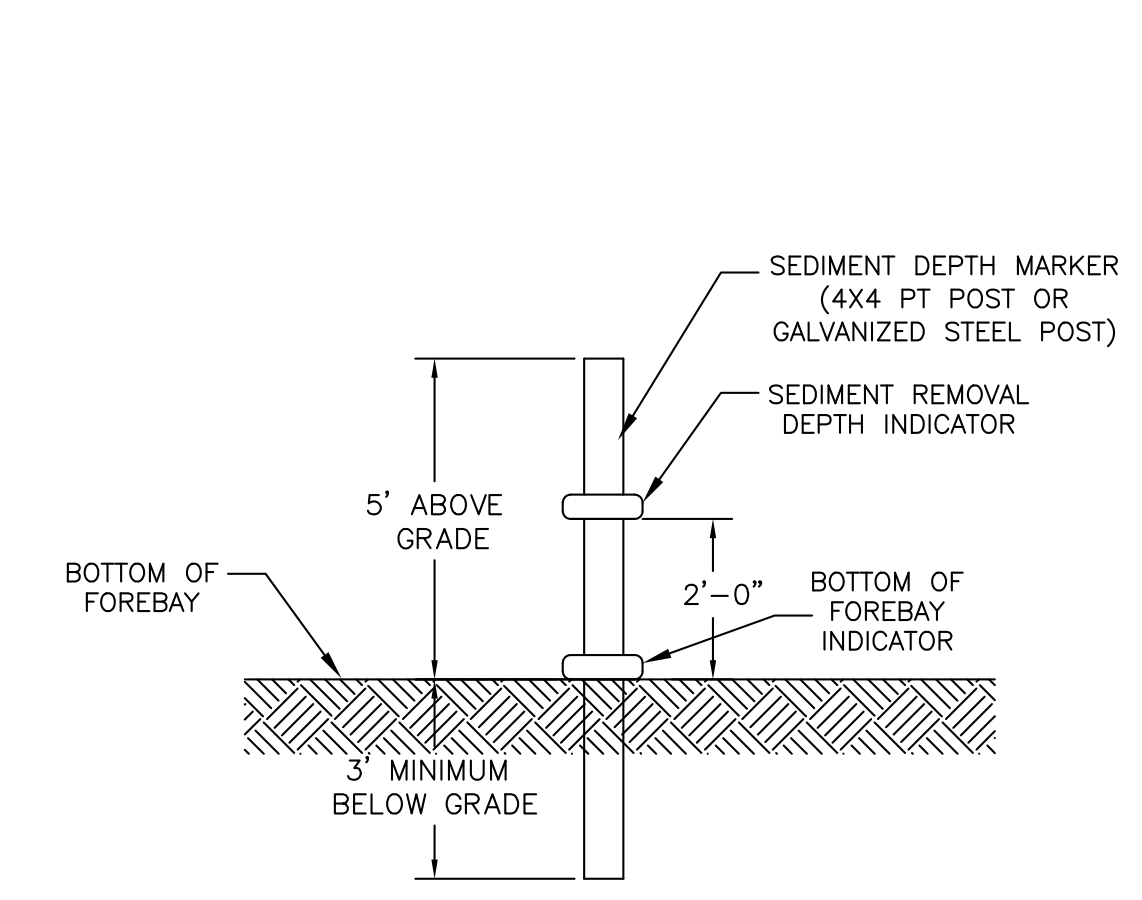
**STORM WATER QUALITY BASIN CLAY LINER SPECIFICATIONS**  
A 6" to 12" compacted clay liner shall be provided at the bottom of the practice and meet the following criteria:  
Minimum 50% passing the #200 sieve  
Permeability: 1 x 10<sup>-5</sup> cm/sec (ASTM D-2434)  
Plasticity Index of Clay: Not less 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)



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



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

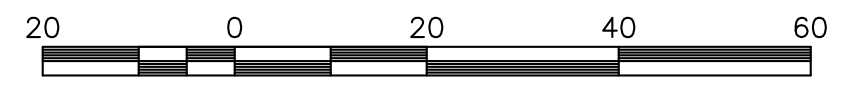


**9 SEDIMENT DEPTH MARKER**  
SCALE: N.T.S.

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
2/25/2020	REVISED DRY SWALE WIDTH	CC

**DRAINAGE DETAILS**

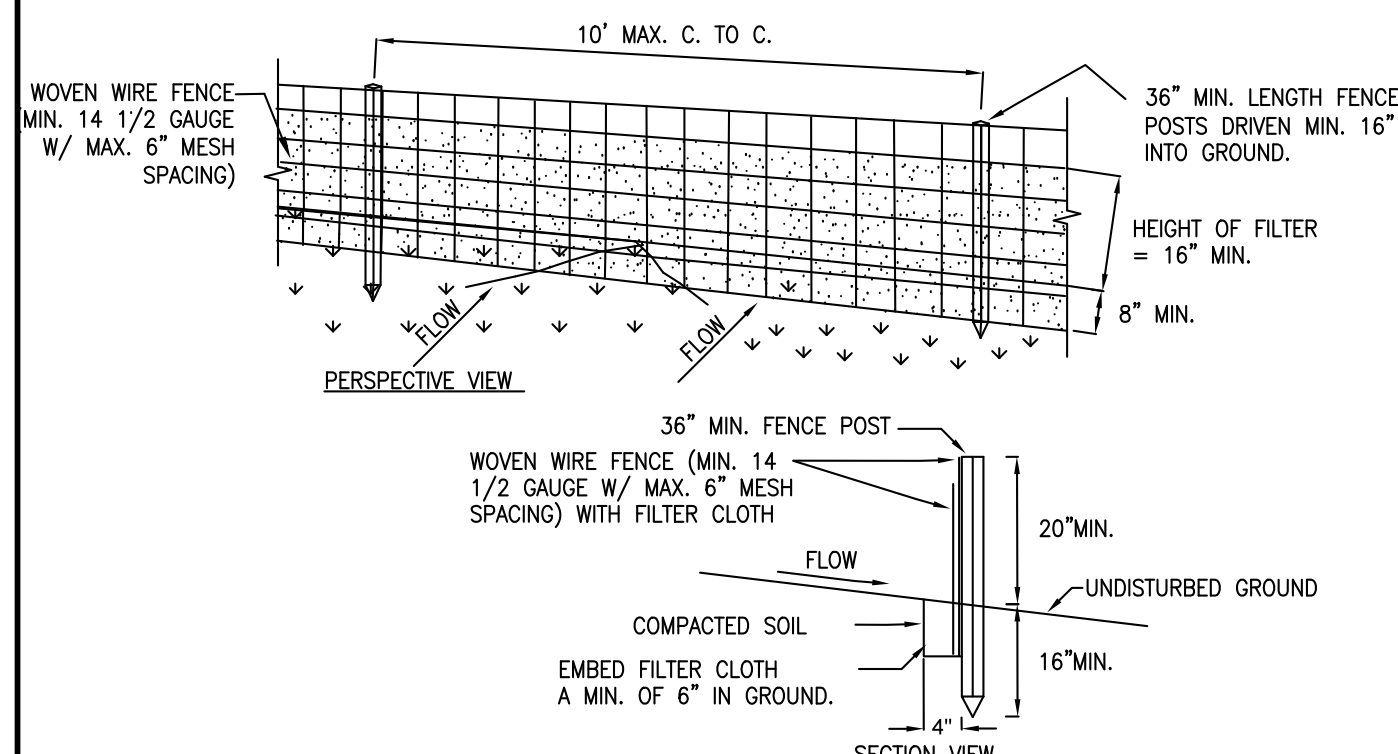
FOR  
**850 ROUTE 28 LLC**  
TOWN OF KINGSTON  
ULSTER COUNTY - NEW YORK



Scale: 1" = 20'  
JUNE 8, 2018

**MEDENBACH & EGGERS**  
CIVIL ENGINEERING & LAND SURVEYING, P.C.  
STONE RIDGE, NEW YORK (845) 687-0047

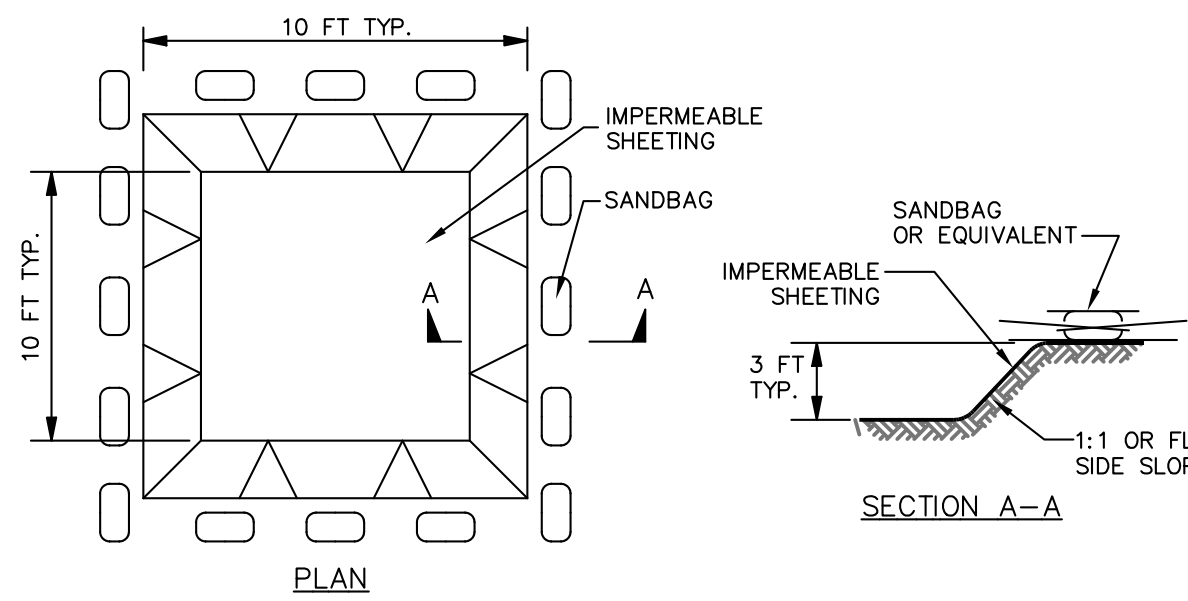




**CONSTRUCTION SPECIFICATIONS**

- 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, 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 GEODAF, ENVIROFENCE, 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

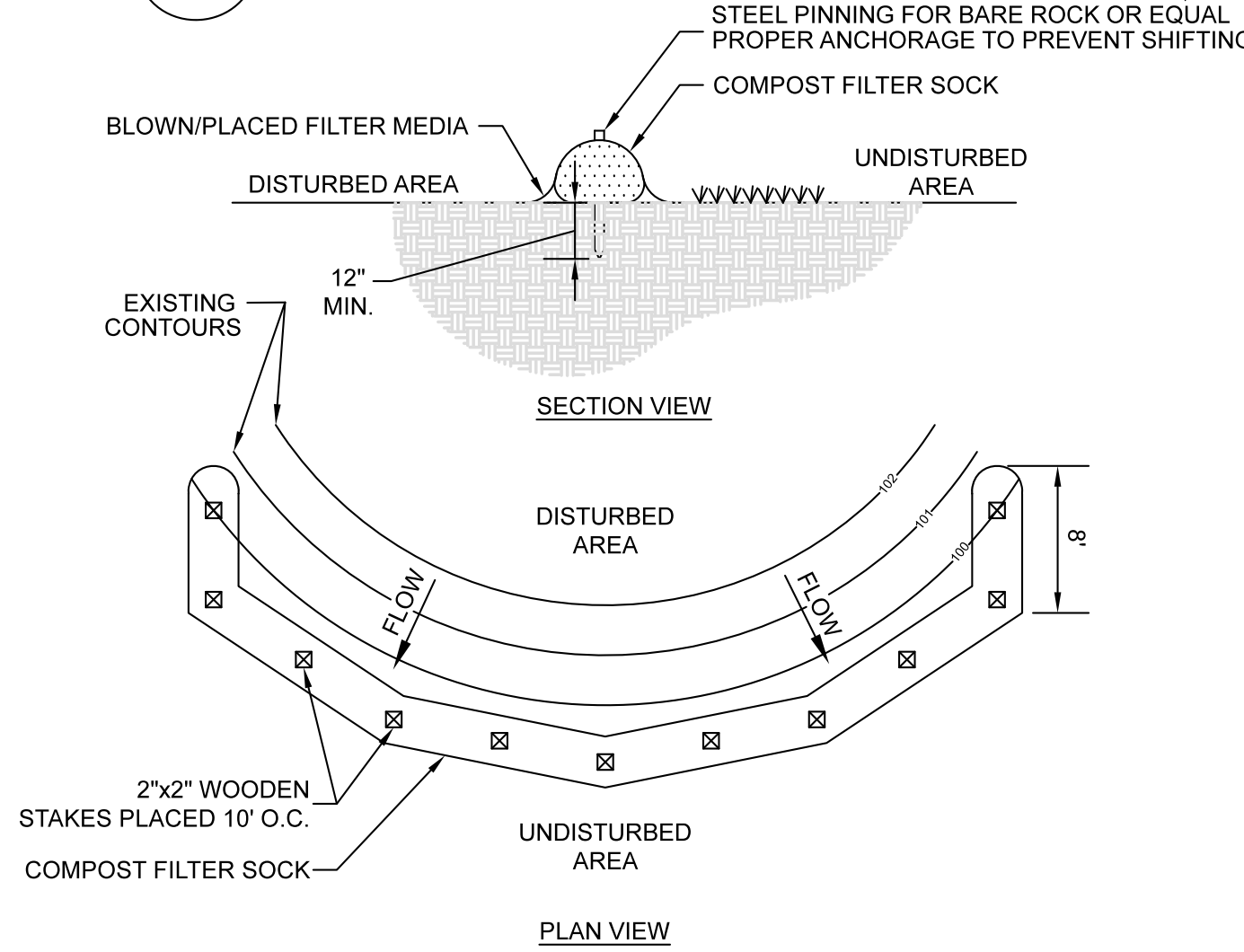


**EXCAVATED WASHOUT STRUCTURE**

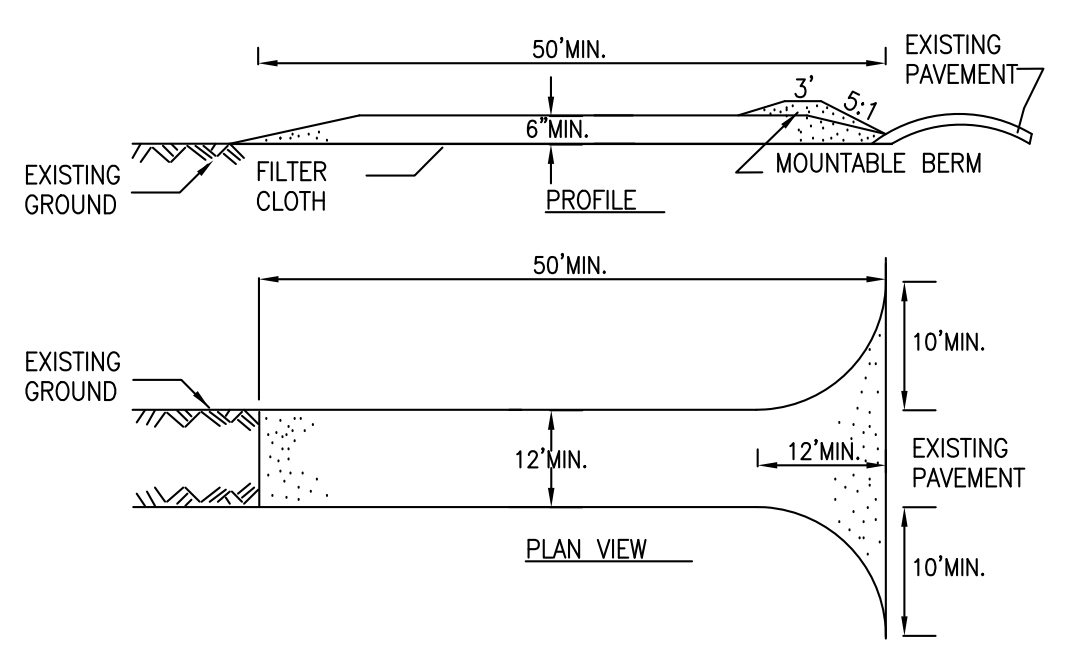
**CONSTRUCTION SPECIFICATIONS**

- 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.
- THE WASHOUT AREAS WILL BE INSPECTED DAILY TO ENSURE THAT ALL CONCRETE WASHING IS BEING DISCHARGED INTO THE WASHOUT AREA, NO LEAKS OR TEARS ARE PRESENT, AND TO IDENTIFY WHEN CONCRETE WASTE NEEDS TO BE REMOVED. THE WASHOUT AREAS WILL BE CLEANED OUT ONCE THE AREA IS FILLED TO 75 PERCENT OF THE HOLDING CAPACITY. WHEN THE AREA'S HOLDING CAPACITY HAS BEEN REACHED THE CONCRETE WASTE WILL BE ALLOWED TO HARDEN. THE CONCRETE WILL THEN BE BROKEN UP, REMOVED, AND DISPOSED IN ACCORDANCE WITH LOCAL REGULATIONS. THE PLASTIC SHEET WILL BE REPLACED IF TEARS OCCURED DURING REMOVAL OF CONCRETE WASTE FROM THE WASHOUT AREA.

**2 CONCRETE WASHOUT DETAIL**  
NOT TO SCALE



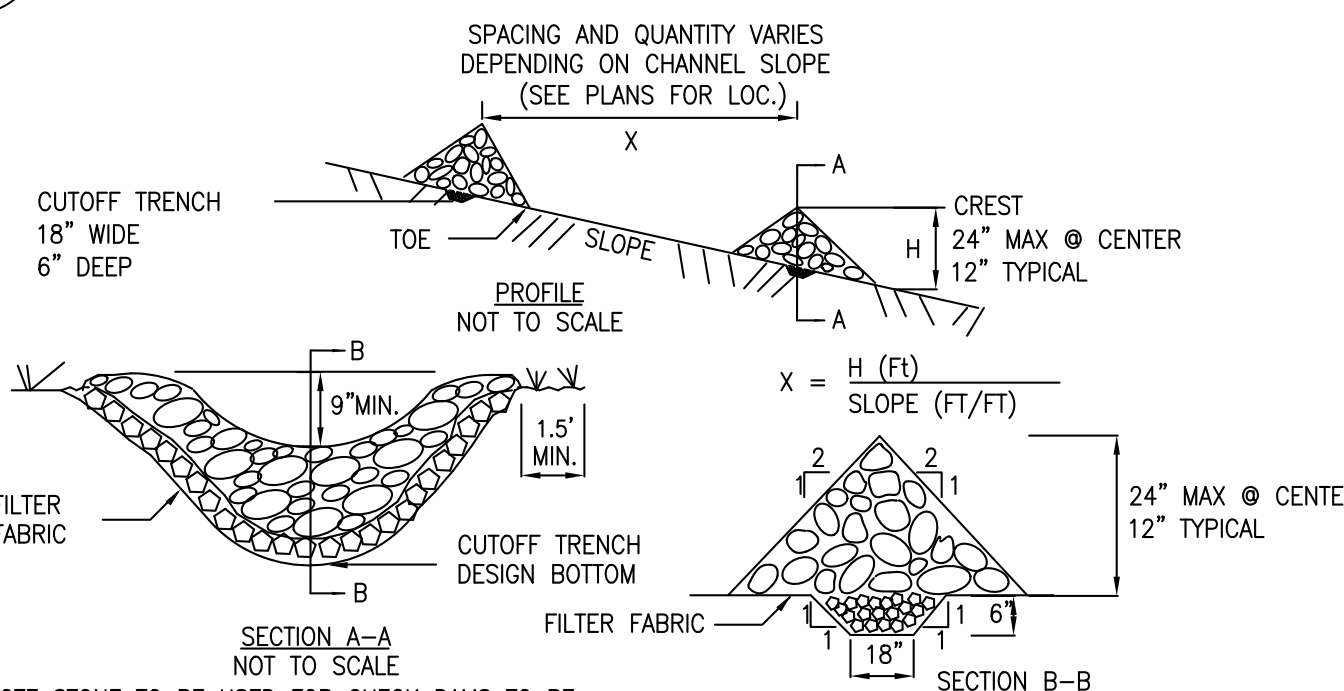
**3 COMPOST FILTER SOCK**  
NOT TO SCALE



**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.

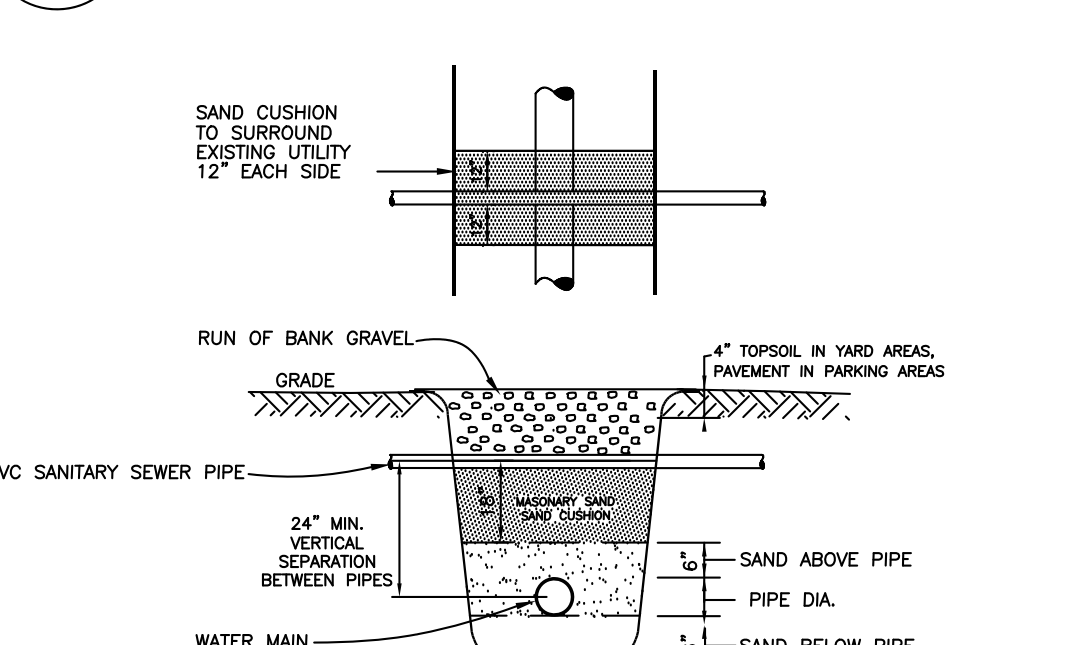
**4 STABILIZED CONSTRUCTION ENTRANCE DETAIL**  
NOT TO SCALE



**CONSTRUCTION SPECIFICATIONS**

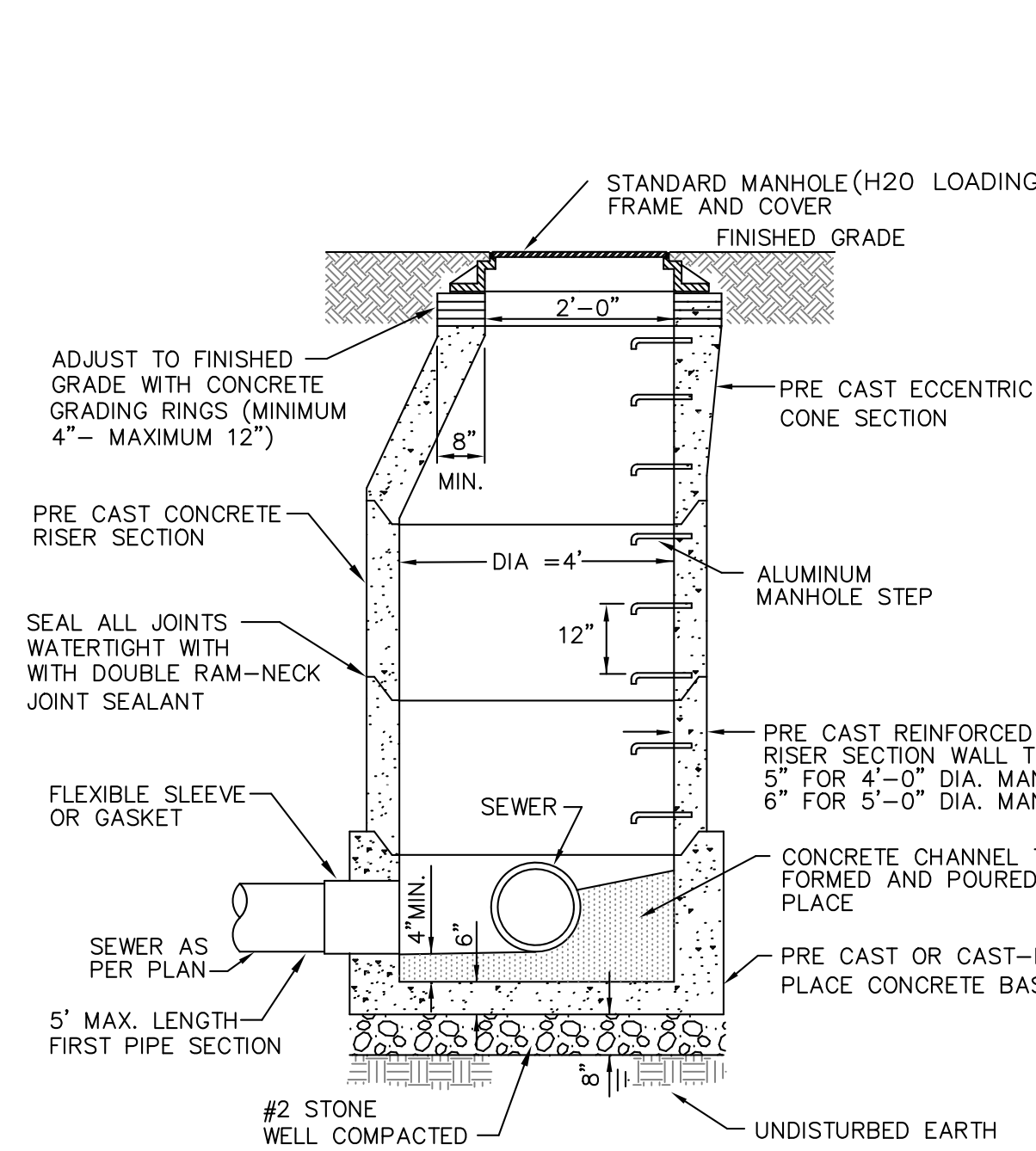
- STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES, GRADES AND LOCATIONS SHOWN IN THE PLAN.
- SET SPACING OF CHECK DAMS TO ASSUME THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT OR BELOW THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM.
- EXTEND THE STONE A MINIMUM OF 1.5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

**5 ROCK CHECK DAM TYPICAL DETAIL**  
NOT TO SCALE

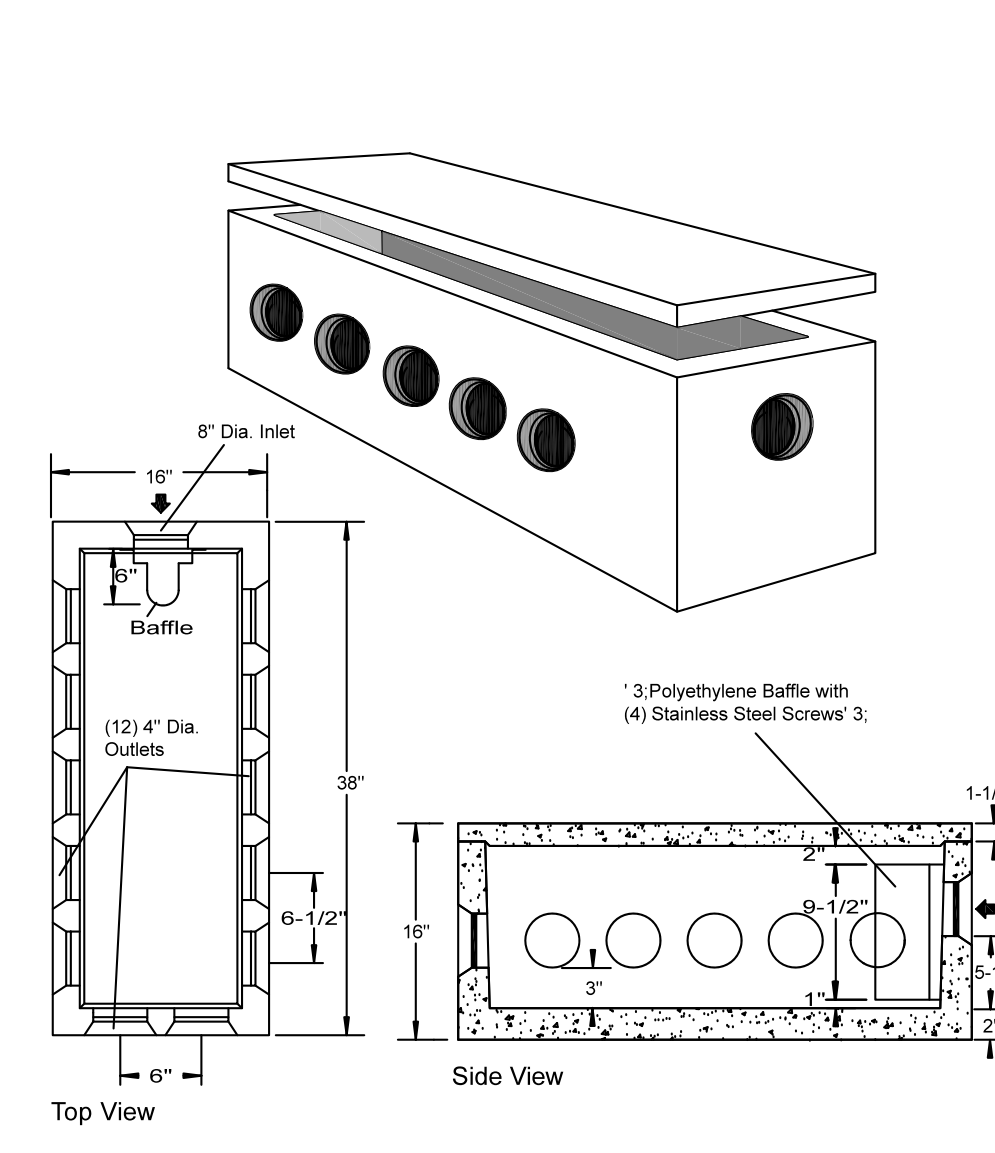


- TRENCH TO BE BRACED AS REQ'D. NY OSHA
- NOTE: WATER AND SEWER LINE CROSSINGS MUST MAINTAIN A 2 FT. VERTICAL SEPARATION.
- NOTE: HORIZONTAL SEPARATION SHALL BE 10 FEET FROM WATER AND SEWER LINE

**6 TYPICAL SEWER AND WATER CROSSING DETAIL**  
NOT TO SCALE



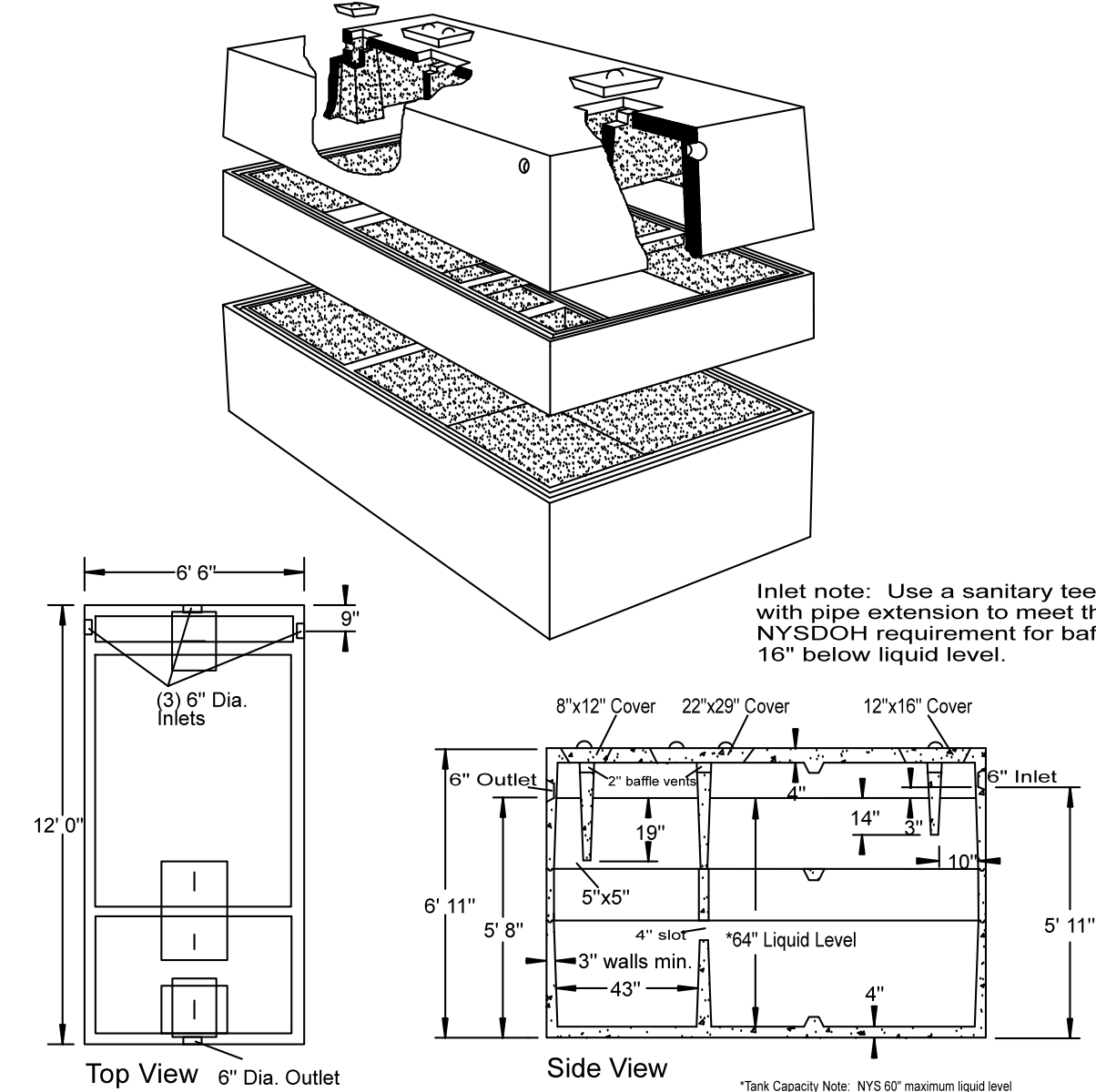
**7 SANITARY SEWER MANHOLE**  
NOT TO SCALE



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

www.woodardsconcrete.com OR EQUAL

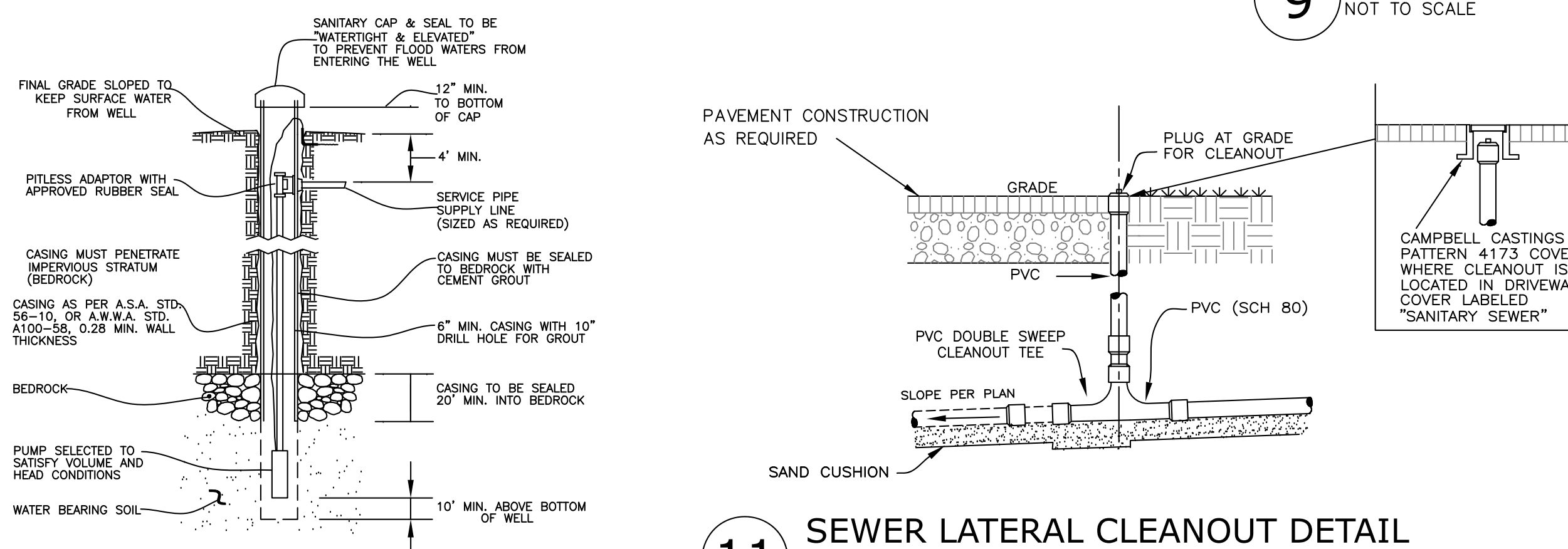
**8 DISTRIBUTION BOX**  
NOT TO SCALE



SPECIFICATIONS	PRECAST SEPTIC TANKS 2500 GALLONS
Concrete Min. Strength: 4,000 psi at 28 days 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	<b>Woodard's Concrete Products, Inc</b> 629 Lybolt Road, Bulville, NY 10915 (845) 361-3471 / Fax 361-1050 Page 6A 8/12/14

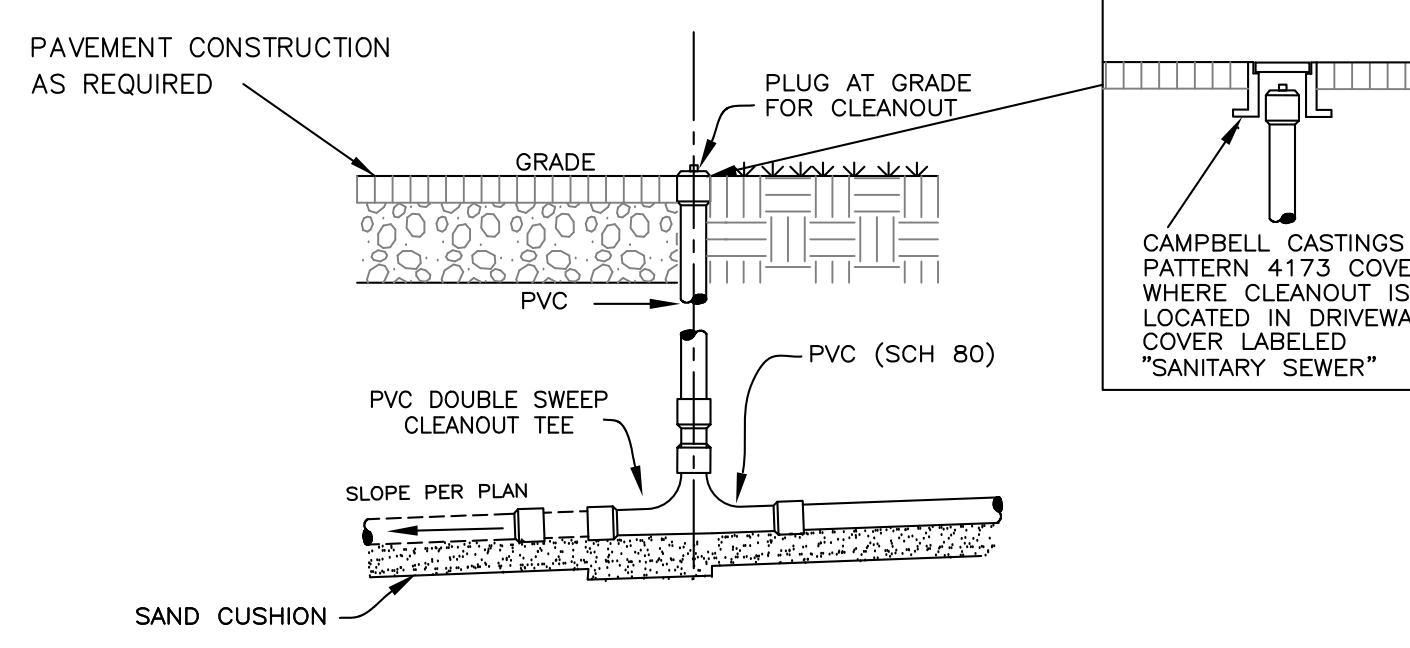
www.woodardsconcrete.com OR EQUAL

**9 2500 GALLON SEPTIC TANK**  
NOT TO SCALE

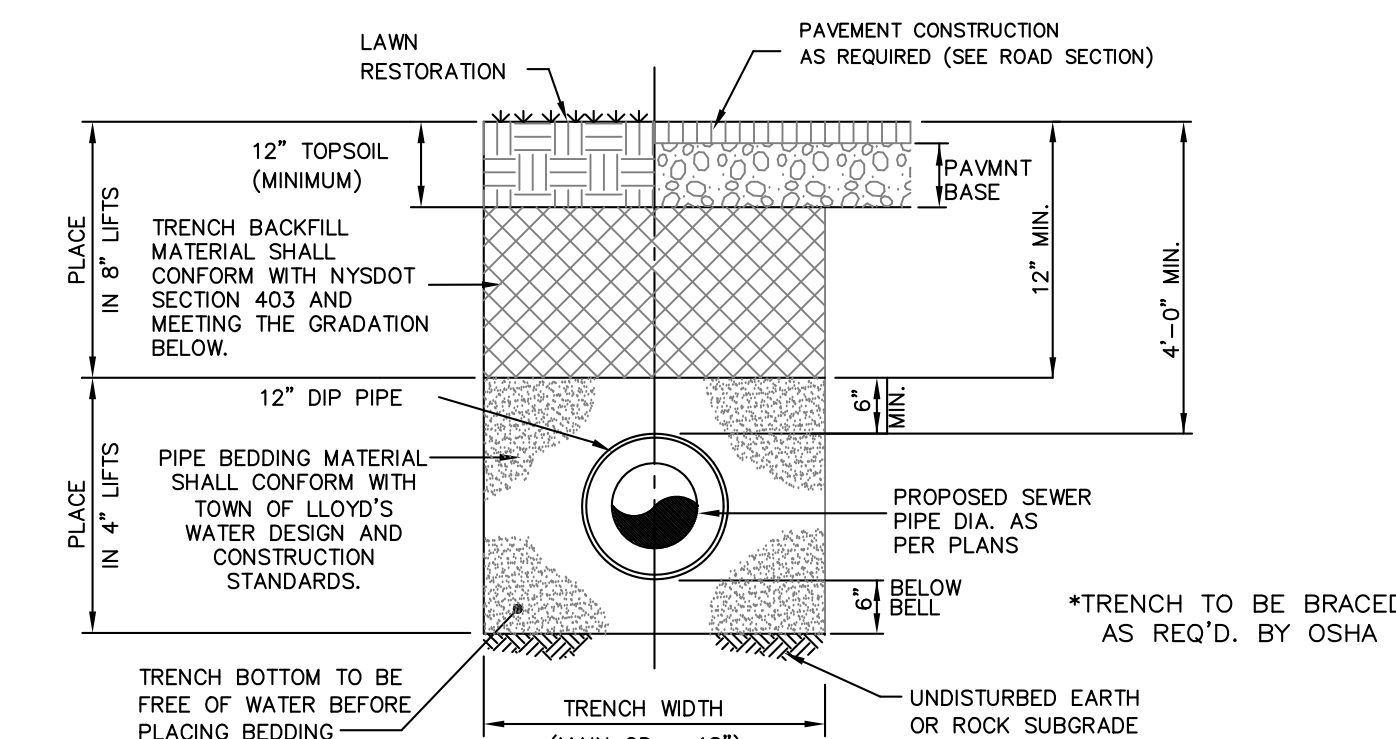


NOTE: ALL WELLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH IN TABLE #5 "STANDARDS FOR THE CONSTRUCTION OF WELLS" OF RURAL WATER SUPPLY, NEW YORK STATE DEPARTMENT OF HEALTH, 1995.

**10 WELL DETAIL**  
NOT TO SCALE



**11 SEWER LATERAL CLEANOUT DETAIL**  
NOT TO SCALE



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

**12 ENCASED SEWER LINE DETAIL**  
NOT TO SCALE

MAP REVISION DATES		
DATE	REVISION	BY
02/22/2019	ADDED DETAILS	KJP
02/25/2020	ADDED FILTER SOCK DETAIL	CC

**SOIL EROSION AND SEDIMENT CONTROL AND SEPTIC DETAILS**

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

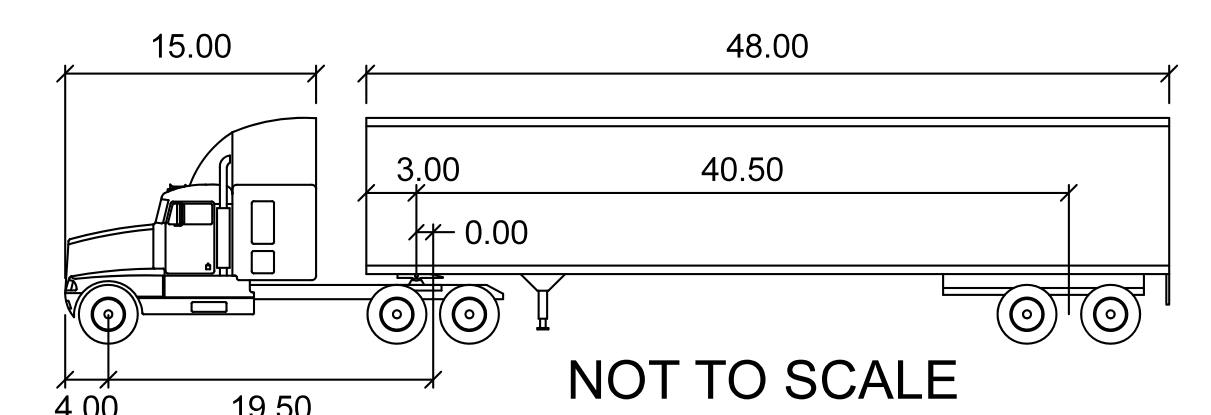
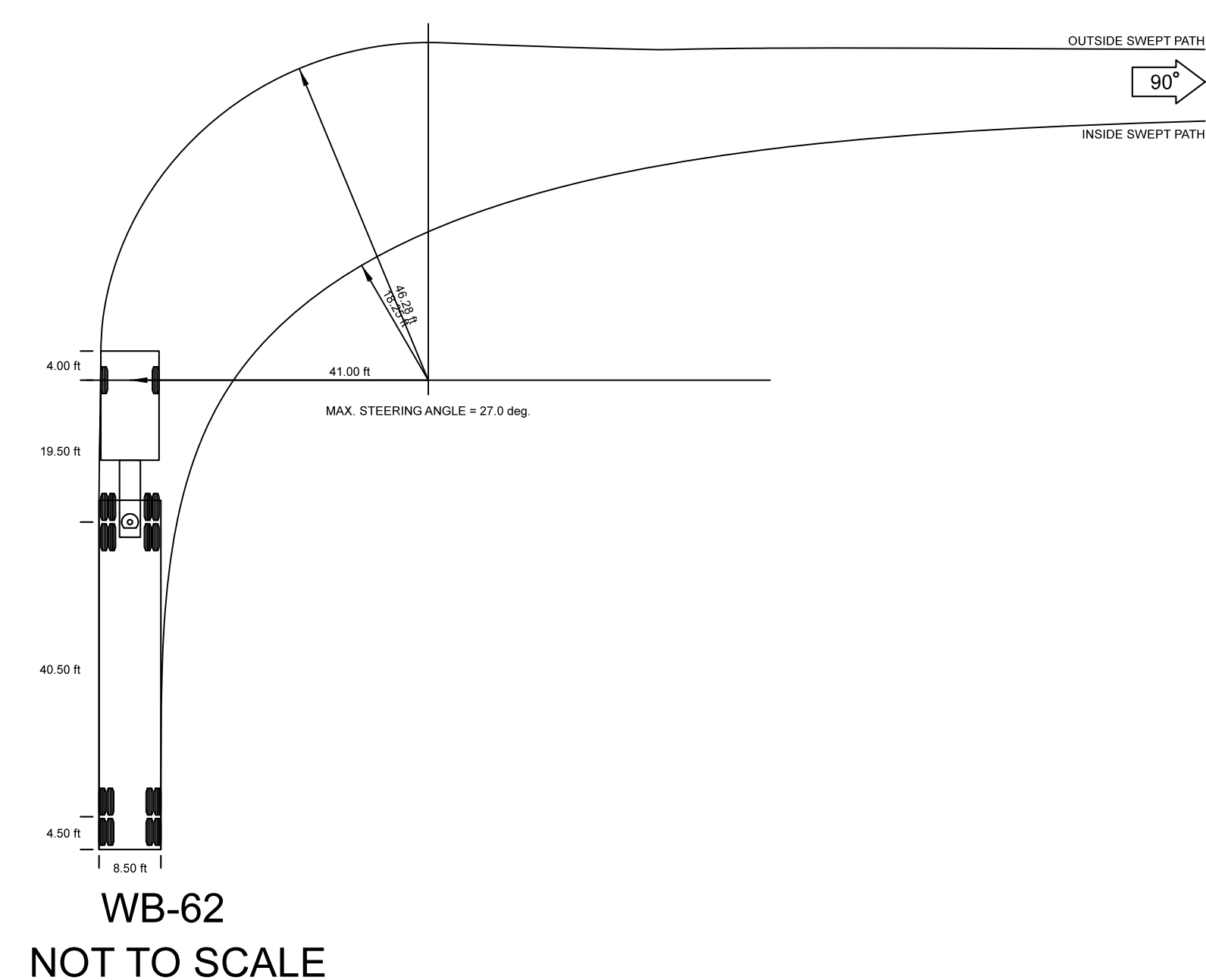
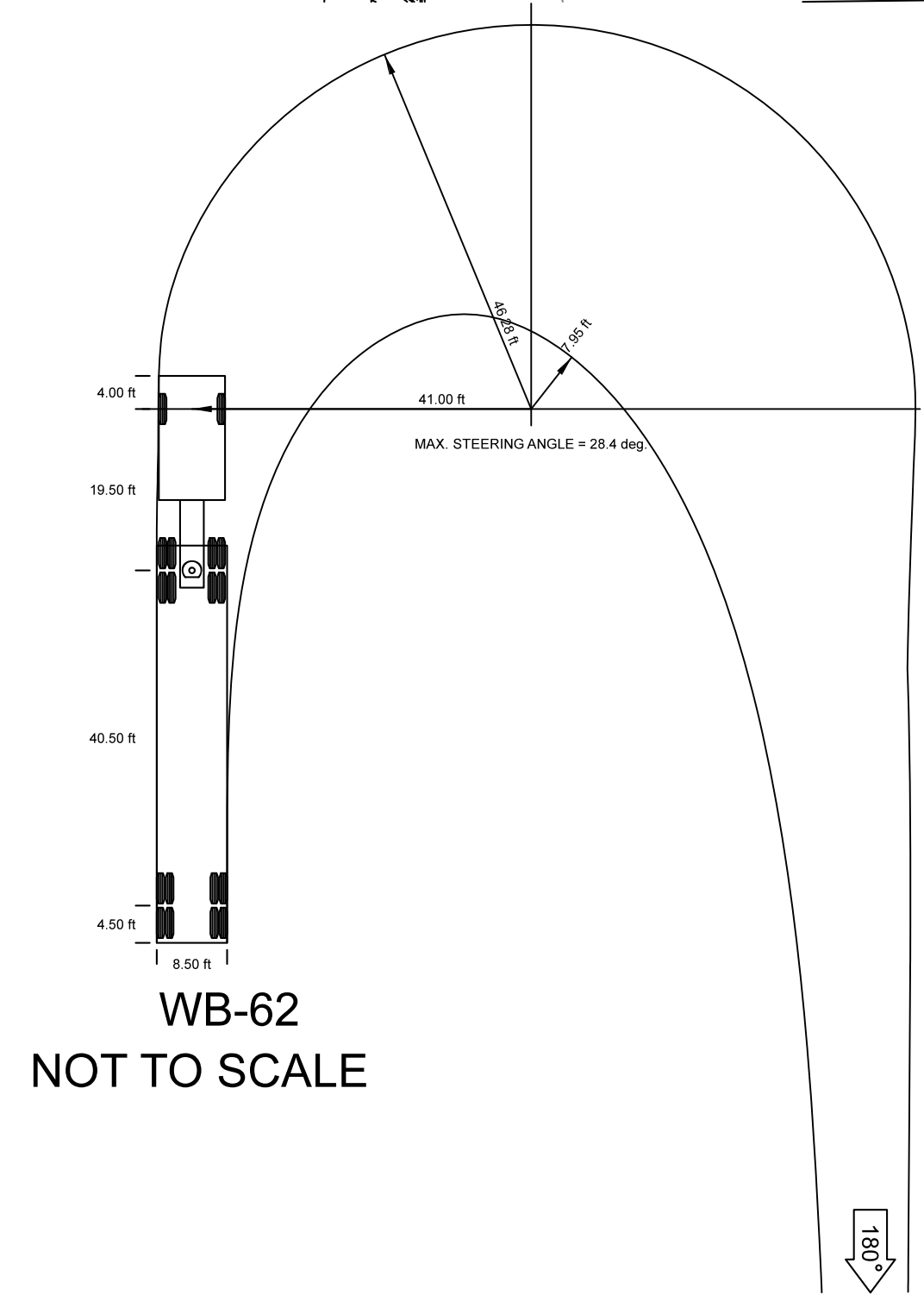
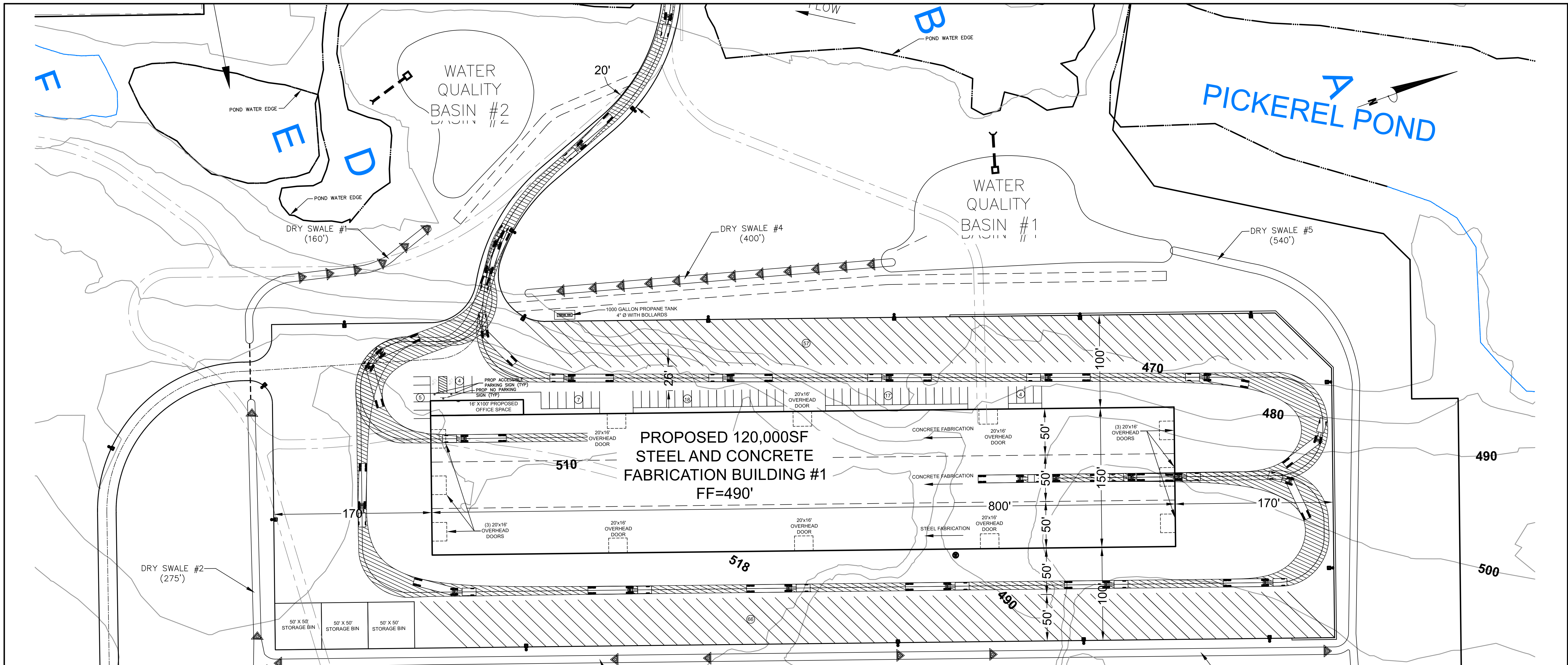
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JANUARY 31, 2019

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

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

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

Scale: 1" = 50'

June 08, 2018

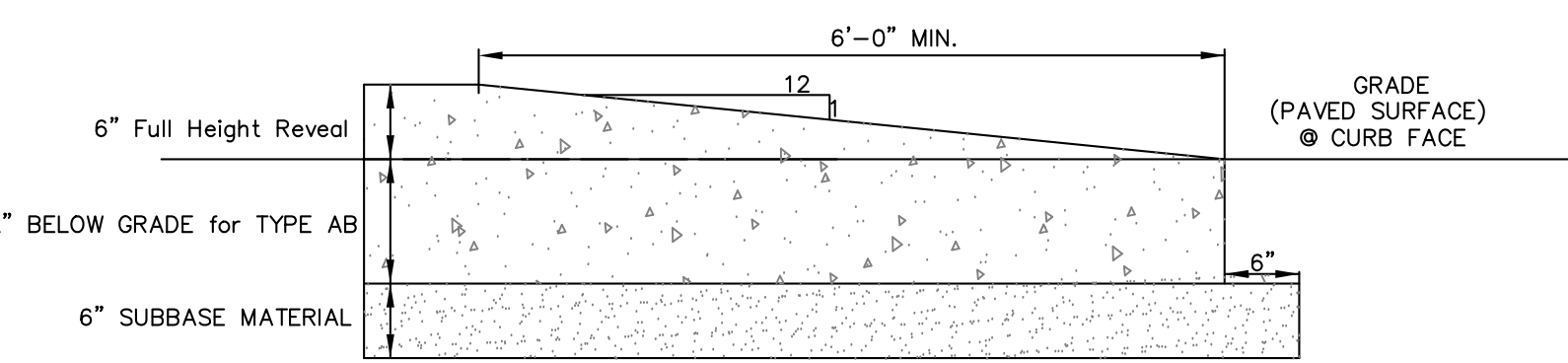
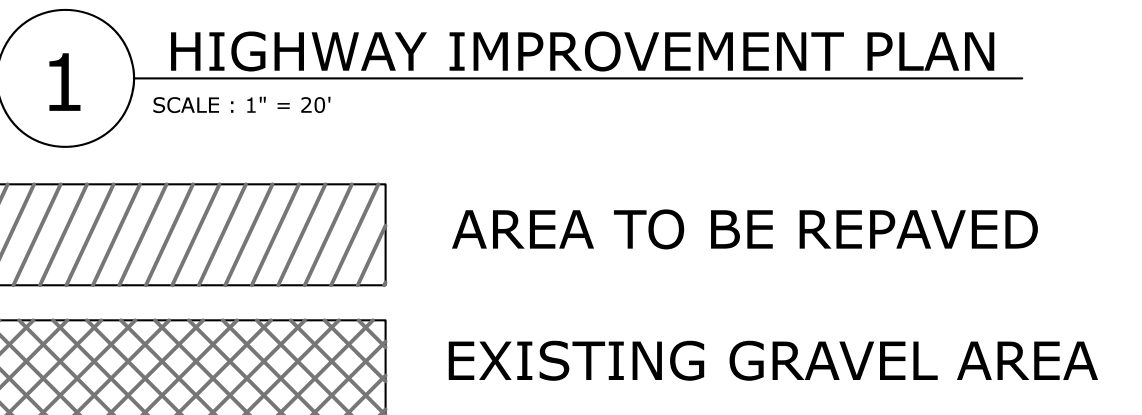
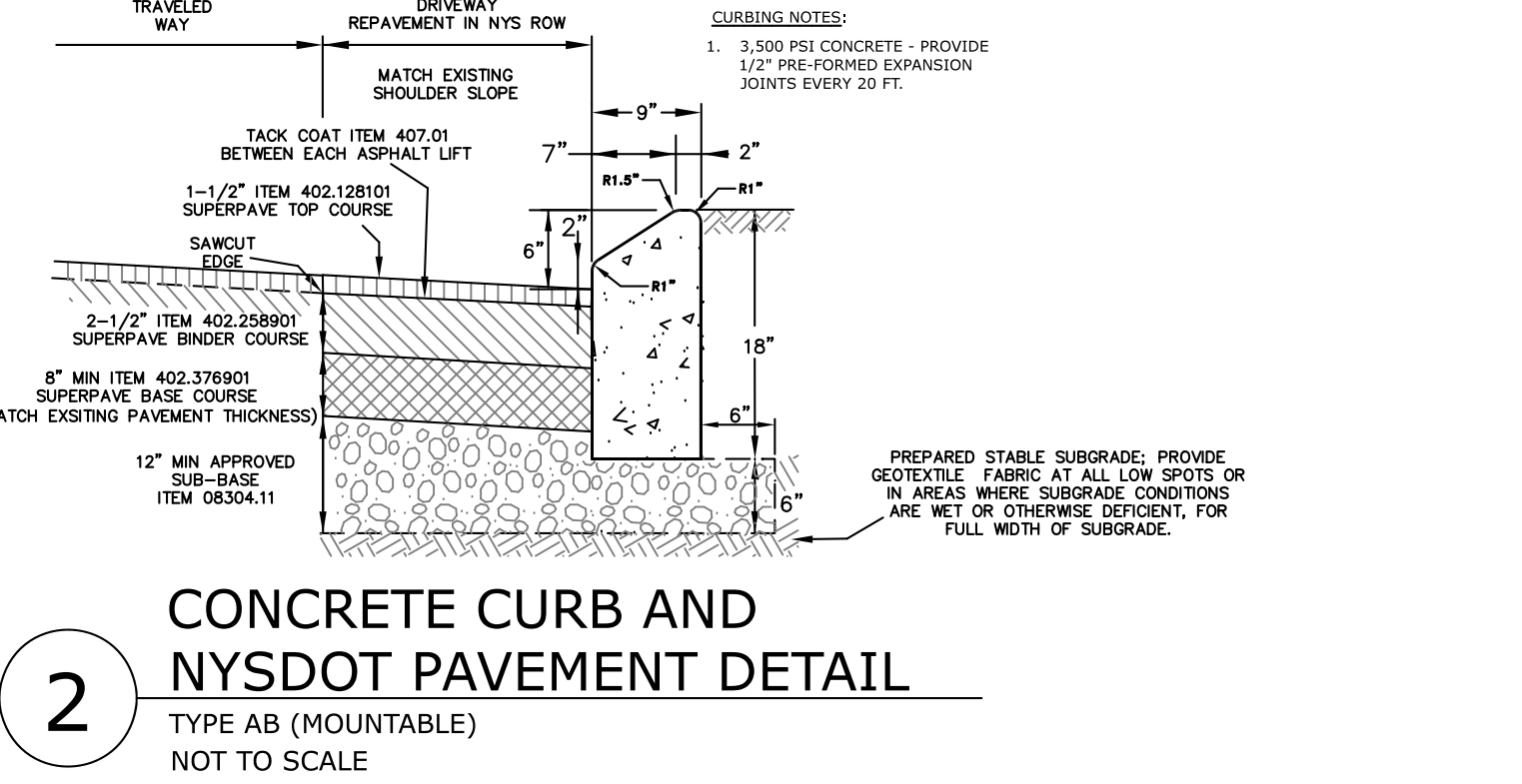
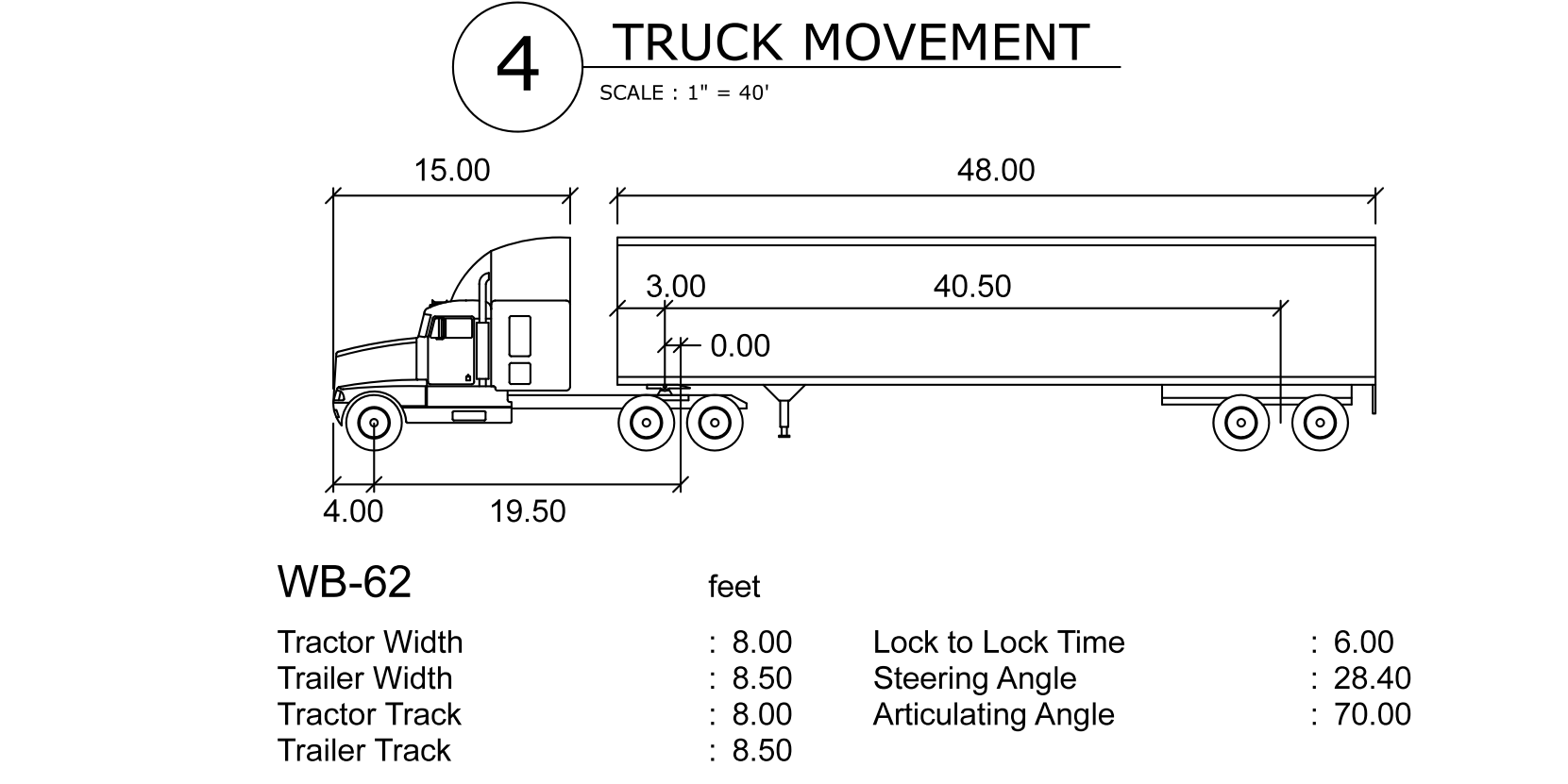
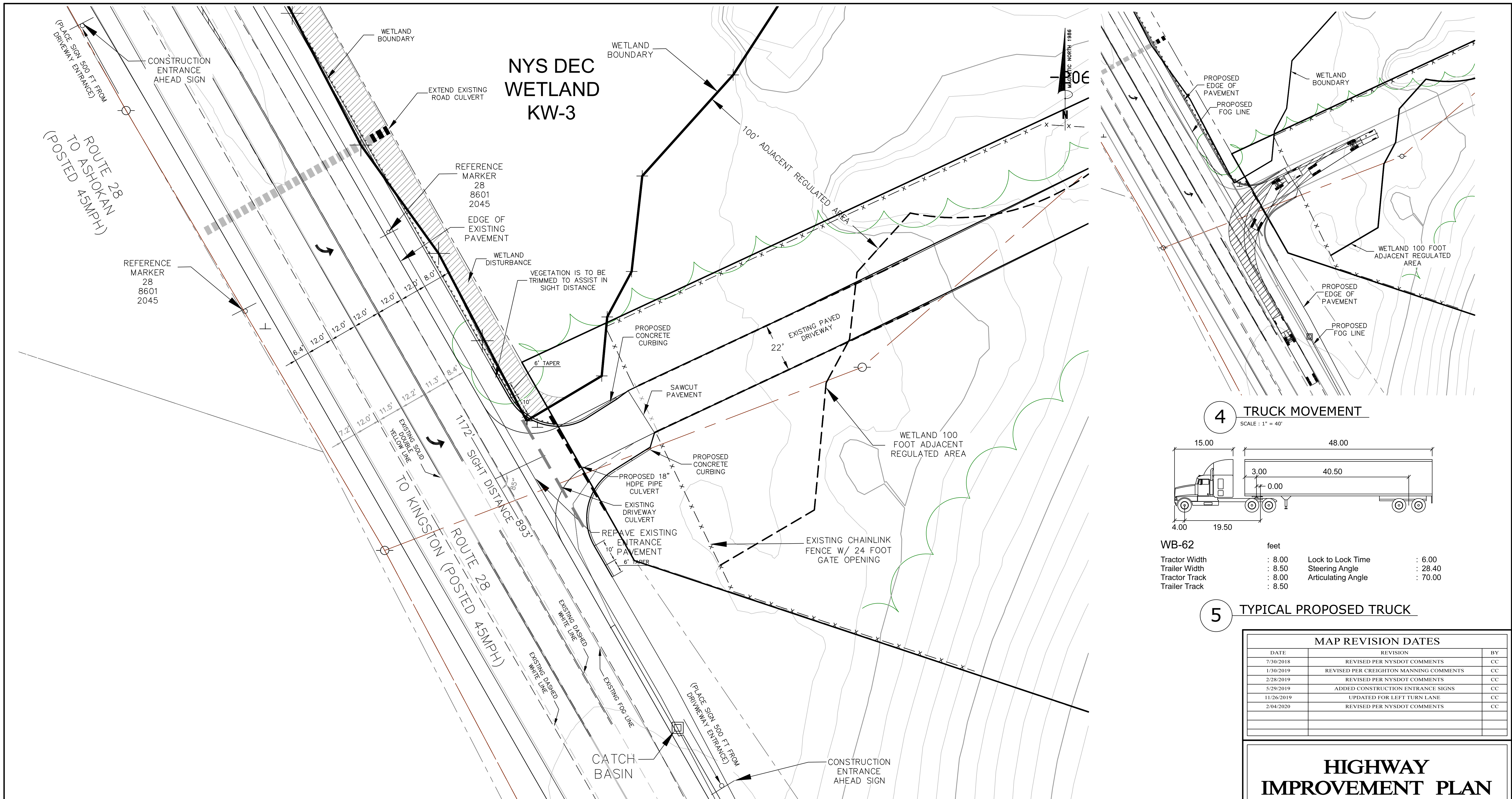
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D-4  
E17 064  
SHEET 17 OF 21





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
2/04/2020	REVISED PER NYSDOT COMMENTS	CC

## HIGHWAY IMPROVEMENT PLAN

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

JULY 17, 2018

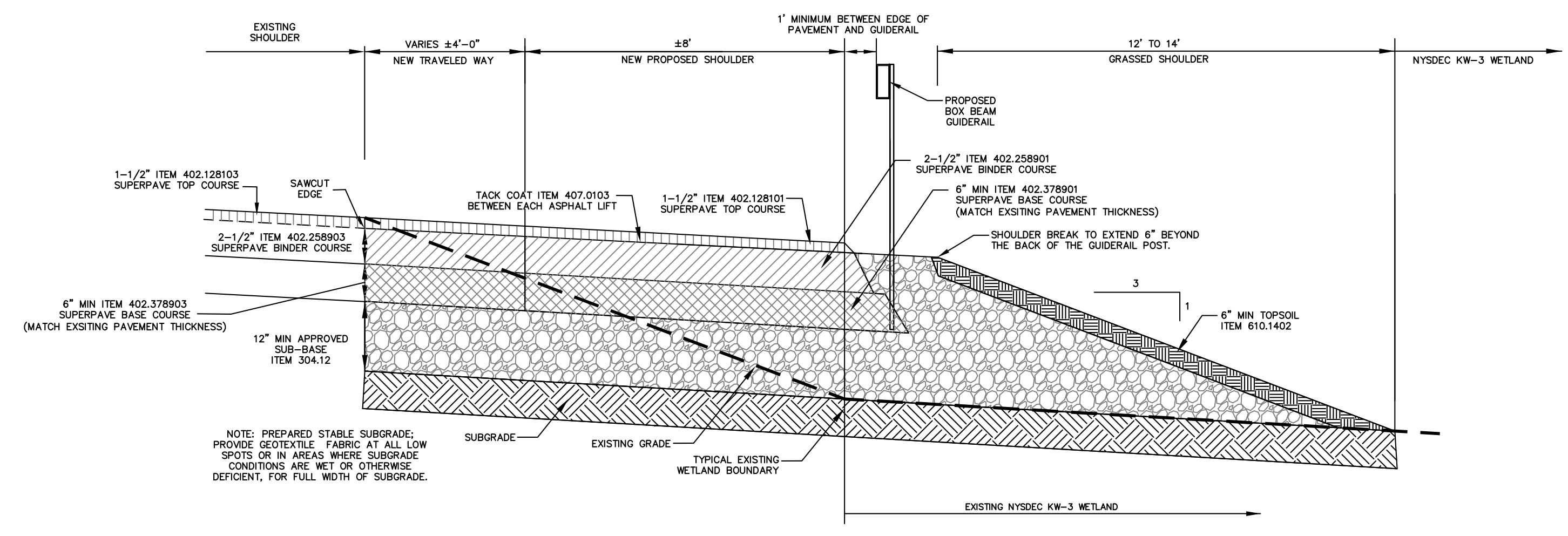
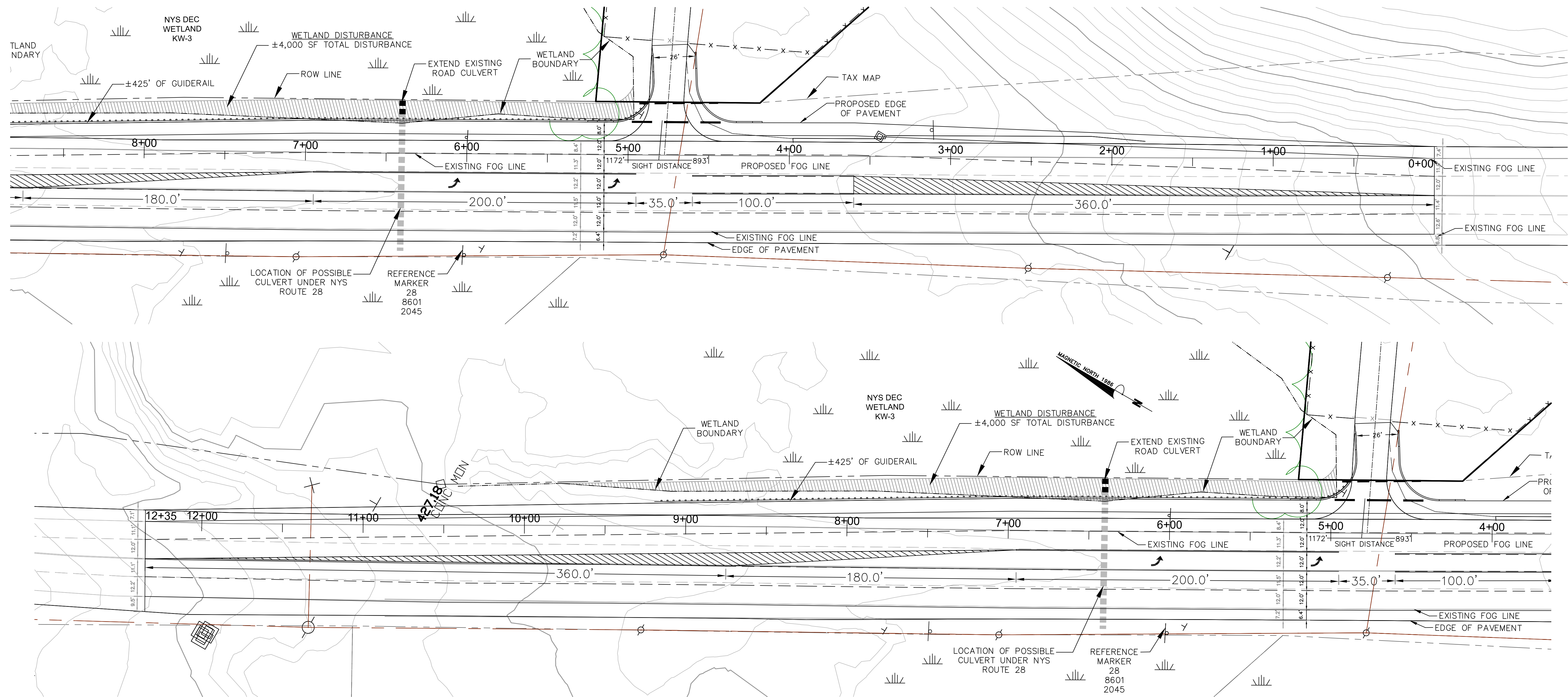
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HIP-1  
 EIT 064  
 SHEET 18 OF 21

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WETLAND VALIDATION:  
 THE FRESHWATER WETLAND KW-3 WAS DELINEATED BY JOSHUA FISHER OF THE NYSDEC ON 5/31/2018 AND 10/28/2019 ALONG THE 850 ROUTE 28 LLC PROPERTY AND ALONG NYS ROUTE 28.

MAP REVISION DATES		
DATE	REVISION	BY
2/12/2020	REVISED PER NYS DOT COMMENTS	CC
2/25/2020	REVISED SHOULDER WIDENING DETAIL	CC

**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**  
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HP-2  
 EIT 064  
 SHEET 19 OF 21

**1** TRAVELED LANE AND SHOULDER WIDENING DETAIL  
 NOT TO SCALE

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 Confirm Utility Response  
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