

Architectural &  
Engineering  
DESIGN  
Associates, P.C.

1246 Rt. 3  
P.O. Box 762  
Plattsburgh, New York 12901  
tel: 518.562.1800  
fax: 518.562.1702  
email: aedapc@aedapc.com

UNAUTHORIZED ALTERATIONS AND/OR  
ADDITIONS TO THIS DRAWING BEARING A  
LICENSED ARCHITECTS OR ENGINEERS  
SEAL & A VIOLATION OF SECTION 2095  
SUBDIVISION 2, OF THE NEW YORK STATE  
EDUCATION LAW.

ONLY COPIES FROM THE ORIGINAL OF THIS  
DRAWING BEARING THE ORIGINAL  
ARCHITECTS OR ENGINEERS SEAL AND  
SIGNATURE SHALL BE CONSIDERED VALID  
TRUE COPIES.

SEVILLE DEVELOPMENT, LLC  
DOLLAR GENERAL - HARTFORD  
TAX PARCEL 141.-1-36

123 ROWE HILL RD., TOWN OF HARTFORD, WASHINGTON COUNTY, NY

DESIGN  
DEVELOPMENT  
PHASE  
SERVICES 100%



REVISIONS		
#	BY	DATE
1	MSC	01/08/20

SITE  
LAYOUT  
PLAN

PROJECT NO. 19029-002  
DATE 11-08-19  
DRAWN BY JBF  
CHECKED BY MSC

C102

REVISIONS		
#	BY	DATE
1	MSC	01/08/20

**SITE  
GRADING  
PLAN**

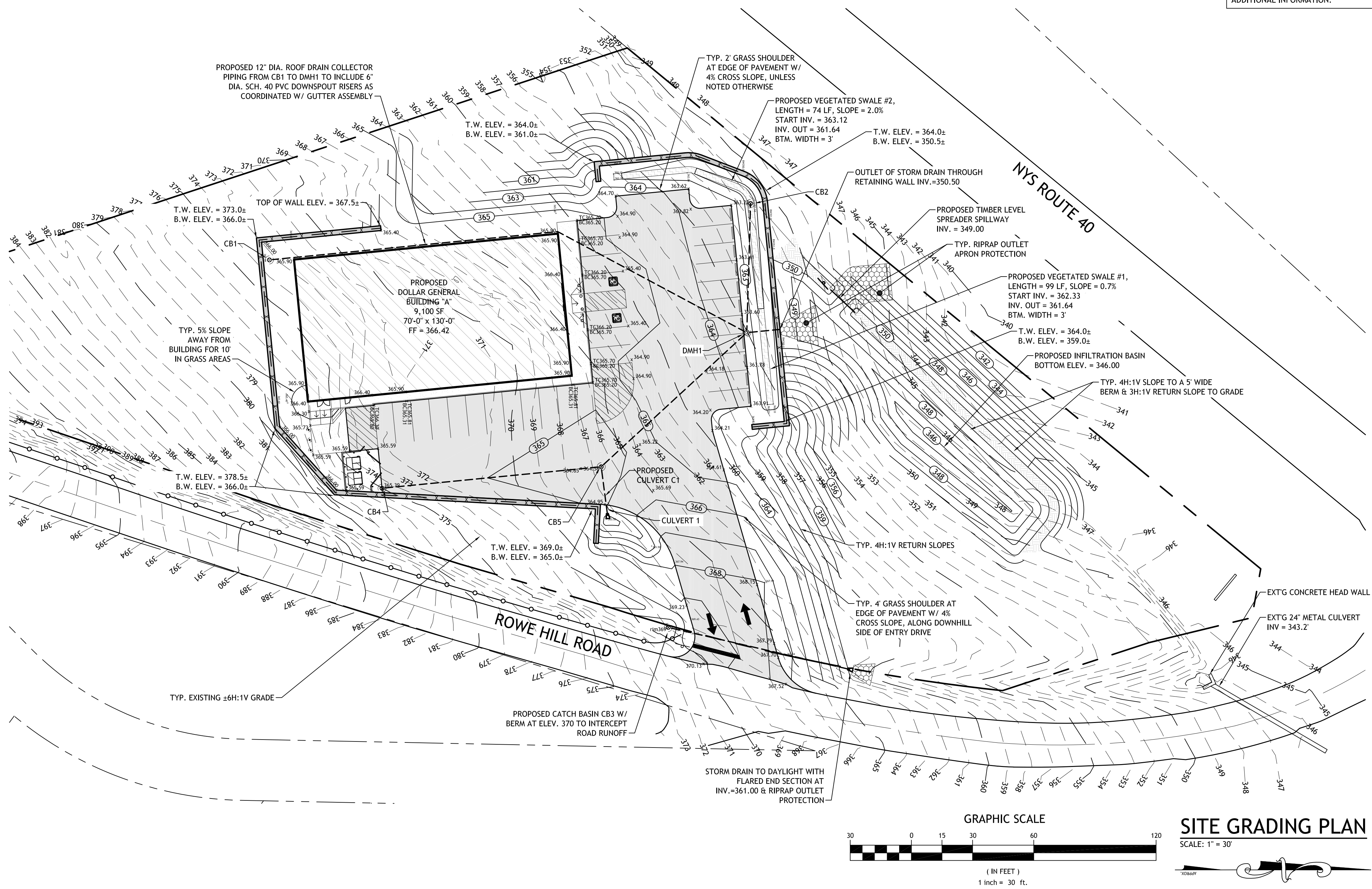
PROJECT NO. 19029-002  
DATE 11-08-19  
DRAWN BY JBF  
CHECKED BY MSC

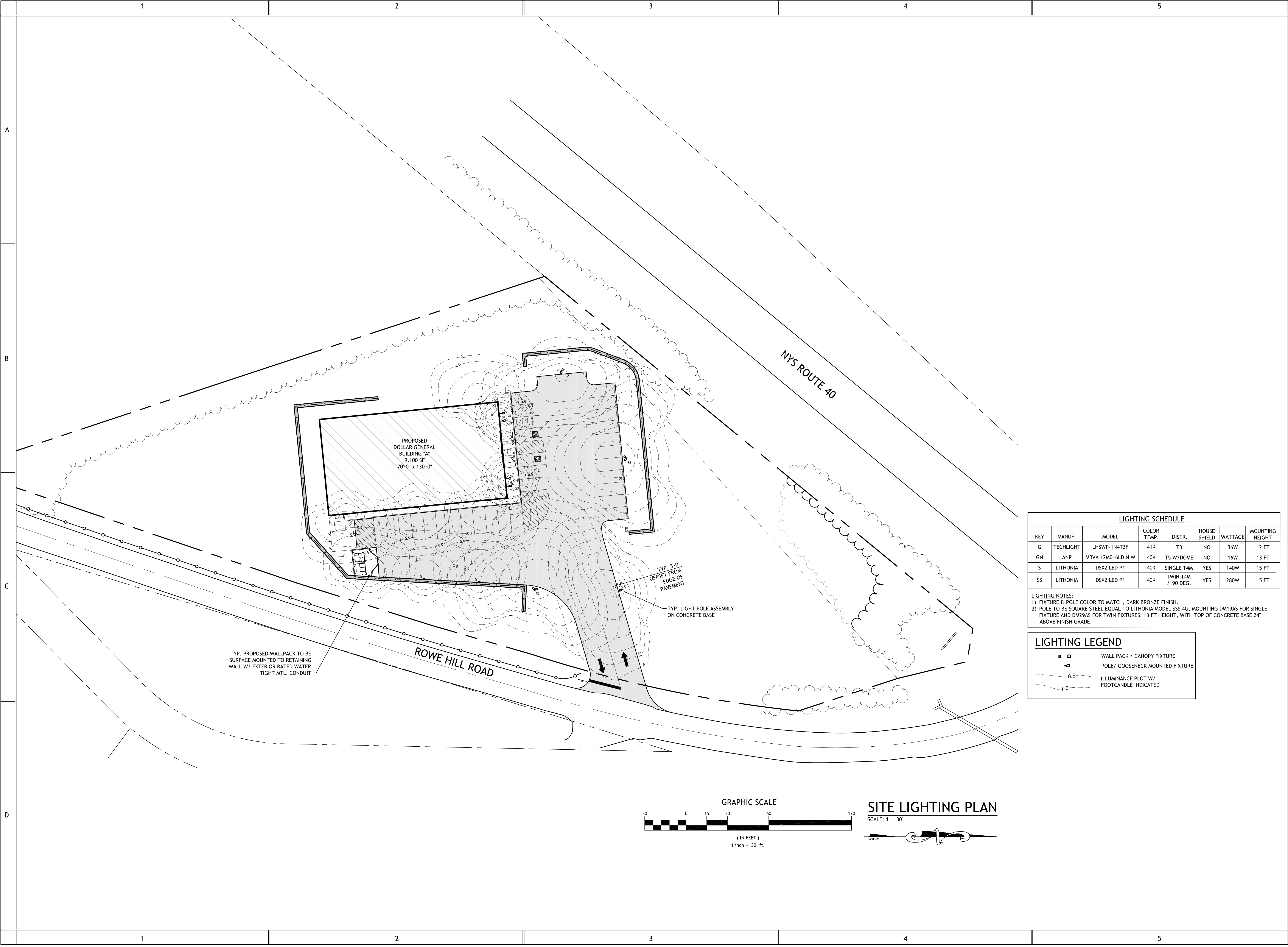
**C103**

CATCH BASIN & STORM DRAIN PIPING SCHEDULE								
ID	RIM ELEV.	INLET OPENING		OUTLET OPENING		OUTLET PIPING		
		DIA.	INV.	DIA.	INV.	TO	LENGTH	SLOPE
CB1	365.15	12"	362.00	12"	357.12	DMH1	244 LF	2.00%
CB2	361.64	12"	358.50	12"	357.25	DMH1	62 LF	2.02%
CB3	369.00	-	-	12"	366.00	FES	89 LF	5.62%
CB4	365.39	-	-	12"	362.00	CB5	105 LF	2.00%
CB5	364.58	12"	(CB4) 359.90	12"	359.90	DMH1	94 LF	2.00%
		12"	(C1) 361.69					
		12"	(CB1) 357.12	18"	352.00	FES	15 LF	10.0%
		12"	(CB5) 358.02					
DMH1	363.66							
CULVERT C1	-	12"	363.50	12"	361.69	CB5	22 LF	8.25%

PIPE MATERIAL NOTES:  
- STANDARD STORM DRAIN PIPING (i.e. FROM CATCH BASIN TO CATCH BASIN & DAYLIGHT) TO BE SMOOTH WALL INTERIOR SOIL TIGHT HDPE, ADS N-12 ST., OR EQUAL.  
- ALL STORM DRAIN PIPING TO DAYLIGHT SHALL TERMINATE WITH A FLARED END SECTION (AS INDICATED BY F.E.S.)  
- STORM DRAIN PIPING SIZED TO CONVEY THE 25-YEAR STORM EVENT RUNOFF PER FIGURE 3-1 DISCHARGE RATES FOR ADS CORRUGATED PIPE WITH SMOOTH INTERIOR LINER PER THE ADS, INC. DRAINAGE HANDBOOK

INFILTRATION PRETREATMENT NOTES:  
CB2, CB5, AND DMH1 - FOR PRETREATMENT OF COLLECTED SURFACE RUNOFF PRIOR TO DISCHARGE INTO THE INFILTRATION BASIN, OIL & DEBRIS GUARDS SHALL BE INSTALLED ON THE OUTLET PIPE PENETRATION WITH A 4 FT DEEP SUMP, SEE TYP. CATCH BASIN DETAIL FOR ADDITIONAL INFORMATION.

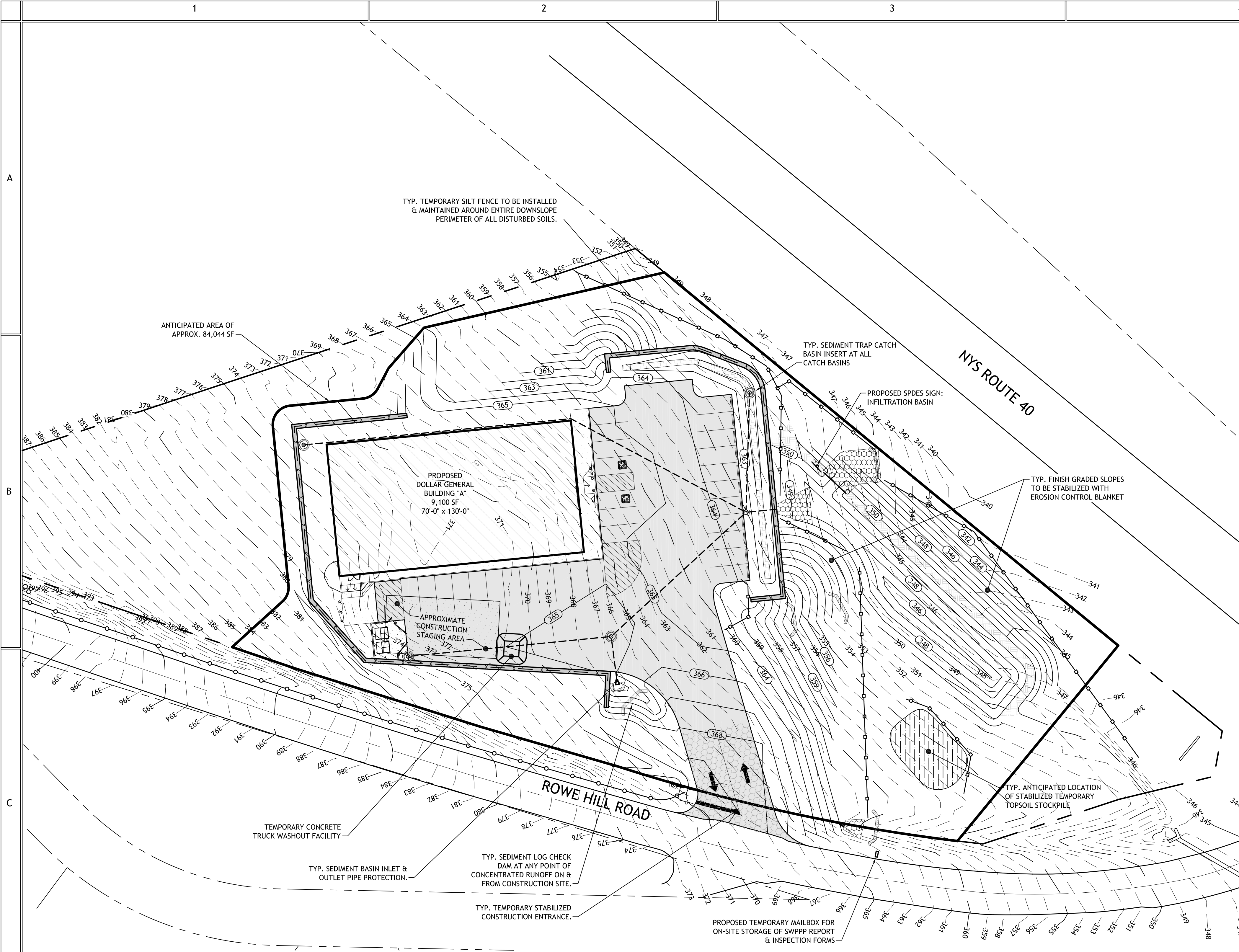




REVISIONS		
#	BY	DATE
1	MSC	01/08/20

**SITE LIGHTING PLAN**

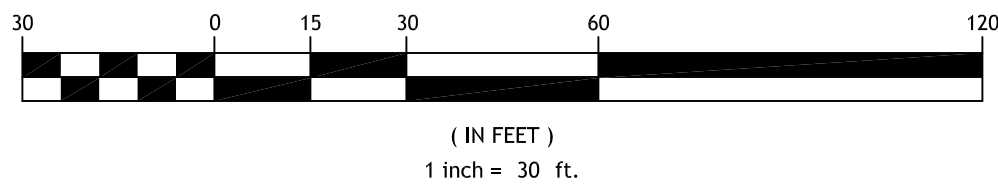
PROJECT NO. 19029-002  
DATE 11-08-19  
DRAWN BY JBF  
CHECKED BY MSC



**SPILL CONTROL BMP**

- HAZARDOUS PRODUCTS:**
  - PRODUCTS SHALL BE MAINTAINED IN ORIGINAL CONTAINERS, WHEREVER POSSIBLE
  - ORIGINAL MANUFACTURER INFORMATION AND SAFETY DATA SHALL BE RETAINED ON SITE FOR THE DURATION OF CONSTRUCTION
  - LOCAL JURISDICTION AND MANUFACTURER'S RECOMMENDATIONS SHALL BE FOLLOWED FOR PROPER DISPOSAL OF EXCESS MATERIALS
- PETROLEUM PRODUCTS:**
  - ALL VEHICLES ON-SITE SHALL BE MONITORED FOR LEAKS AND RECEIVE PERIODIC MAINTENANCE TO REDUCE LEAKS
  - PETROLEUM PRODUCTS SHALL BE STORED IN SEALED CONTAINERS, WHICH ARE PROPERLY LABELED
  - ASPHALT SUBSTANCES USED ON-SITE SHALL BE APPLIED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS
- FERTILIZERS:**
  - FERTILIZERS SHALL BE STORED AND APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS
  - THE USE OF FERTILIZERS WITHIN 50 FEET OF THE MEAN HIGH WATER MARK IS PROHIBITED
  - ANY FERTILIZER USED ON-SITE SHALL HAVE A PHOSPHORUS CONTENT LESS THAN 1% & CONTAIN SLOW RELEASE NITROGEN
  - UPON APPLICATION, FERTILIZERS SHALL BE WORKED INTO THE SOIL TO PREVENT EXPOSURE TO STORMWATER
- PAINTS:**
  - ALL PAINT CONTAINERS SHALL BE TIGHTLY SEALED AND STORED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS
  - EXCESS PAINT SHALL NOT BE DISCHARGED TO ANY STORM/SEWER SYSTEM

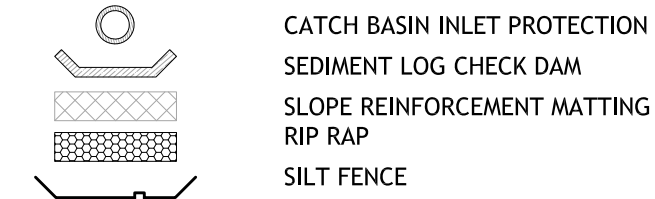
**GRAPHIC SCALE**



**EROSION & SEDIMENT CONTROL PLAN**

SCALE: 1" = 30'

**EROSION CONTROL LEGEND**



**EROSION CONTROL NOTES**

- ALL EROSION CONTROL PROCEDURES SHALL CONFORM TO "NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL" PREPARED BY THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION.
- THE SMALLEST PRACTICAL AREA OF LAND SHOULD BE EXPOSED AT ANY ONE TIME DURING ALL PHASES OF DEVELOPMENT, WITH A MAXIMUM OF 5 ACRES EXPOSED AT ANY ONE TIME. THE EXPOSURE SHOULD BE KEPT TO THE SHORTEST PRACTICAL PERIOD OF TIME AND SHALL BE PERMANENTLY STABILIZED IMMEDIATELY FOLLOWING FINISHED GRADING.
- AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED: (A) BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED, (B) A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED, (C) A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIP RAP HAS BEEN INSTALLED, OR (D) EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.
- LAND SHALL NOT BE LEFT EXPOSED DURING WINTER MONTHS. SEE WINTER CONSTRUCTION NOTES.
- ALL EROSION AND SILTATION CONTROL FACILITIES SHALL BE CONSTRUCTED PRIOR TO THE INITIATION OF EARTHWORK AND UTILITIES CONSTRUCTION. ALL SWALES AND CULVERT OUTLETS SHALL BE STABILIZED PRIOR TO RECEIVING ANY STORM WATER.
- PROVIDE EROSION CONTROL MATTING ON SLOPES STEEPER THAN 3:1. PROVIDE CHOPPED STRAW MULCH ON LOAMED AND SEEDED AREAS LESS THAN 3:1. ANY SLOPES RECEIVING CONCENTRATED RUNOFF SHALL BE PROTECTED WITH EROSION CONTROL MATTING OR RIPRAP.
- ALL STRUCTURAL CONTROLS INCLUDING SILT FENCE AND INLET/OUTLET PROTECTIONS SHALL BE INSTALLED WHERE SHOWN PRIOR TO ANY ON-SITE GRADING OR DISTURBANCE OF EXISTING SURFACE MATERIAL. IT SHOULD BE MAINTAINED DURING AND AFTER DEVELOPMENT TO REMOVE SEDIMENT FROM RUNOFF WATER AND FROM LAND UNDERGOING DEVELOPMENT. WHERE POSSIBLE NATURAL DRAINAGE WAYS SHOULD BE UTILIZED AND LEFT OPEN TO REMOVE EXCESS SURFACE WATER.
- TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED IN AMOUNTS NECESSARY TO COMPLETE FINISHED GRADING OF ALL EXPOSED AREAS.
- AREAS TO BE FILLED SHALL BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS, OR OTHER OBJECTIONABLE MATERIAL.
- ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE, OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT UTILITIES, STRUCTURES, AND PIPING, ETC., SHALL BE COMPACTED TO A MINIMUM OF 98% MAXIMUM DENSITY AT OPTIMUM MOISTURE ACCORDING TO ASTM 1557 D.
- ALL FILL SHALL BE PLACED AND COMPACTED IN LAYERS NOT TO EXCEED 8 INCHES IN THICKNESS.
- FILL MATERIAL SHALL BE FREE OF BRUSH, RUBBISH, ROCKS, LOGS, STUMPS, BUILDING DEBRIS, AND OTHER OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS. FROZEN MATERIAL OF SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.
- ALL BENCHES SHALL BE KEPT FREE OF SEDIMENT DURING ALL PHASES OF DEVELOPMENT.
- SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATIONS FOR SUBSURFACE DRAIN OR OTHER APPROVED METHODS.
- BAILED STRAW AND MULCH SHALL BE MOWINGS OF ACCEPTABLE HERBACEOUS GROWTH FREE FROM NOXIOUS WEEDS OR WOODY STEMS, AND SHALL BE DRY, NO SALT HAY SHALL BE USED.
- PORTIONS OF THE SITE MUST BE STABILIZED WITHIN 14 DAYS WHERE CONSTRUCTION ACTIVITY IS TEMPORARILY OR PERMANENTLY CEASED.
- MAJOR HAIL ROUTES AND AREAS OF SOIL DISTURBANCE SHALL BE WATERED AS NECESSARY TO MINIMIZE DUST NUISANCE. WHERE PRACTICAL, THEY SHOULD BE STABILIZED (COMPACTED, RIPRAP, ETC.) TO REDUCE OFF-SITE TRANSPORT OF SOIL AND OTHER MATERIAL. IF SEDIMENT SHOULD ACCUMULATE ON SURROUNDING PAVEMENT, REGULAR SWEEPING SHALL BE CONDUCTED.
- CONCRETE TRUCKS SHALL NOT WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON-SITE. THESE ACTIVITIES MUST BE PERFORMED AT AN APPROVED LOCATION IN ACCORDANCE WITH LOCAL & STATE REGULATIONS.

**SEEDING SPECIFICATIONS**

ALL TEMPORARY AND PERMANENT SEEDING SHALL BE DONE IN ACCORDANCE WITH "NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION & SEDIMENT CONTROL", JULY 2016, BY NYSDEC.

ALL DISTURBED AREAS TO BE SEED SHALL BE TREATED AS FOLLOWS:

- PREPARE SURFACE IN ACCORDANCE WITH NYSDEC STORMWATER DESIGN MANUAL PG. 4-59 STANDARD AND SPECIFICATION FOR TOPSOILING, WITH A 6" DEPTH OF TOPSOIL. AREAS OF HEAVY TRAFFIC OR FORMERLY IMPERVIOUS SHALL HAVE SOIL RESTORATION PERFORMED.
- SURFACE SHALL BE GRADED TO DIVERT WATER FROM SITE TO PREVENT KILLING VEGETATION DUE TO PONDED WATER.
- ROCKS AND OTHER DEBRIS SHALL BE REMOVED FROM THE SITE OR BURIED DURING GRADING.
- LIME SHALL BE APPLIED IN THE FORM OF AGRICULTURAL GROUND LIMESTONE TO ESTABLISH A SOIL PH OF 6.5 AND SHALL BE INCORPORATED INTO THE TOP 3 INCHES OF SURFACE MATERIAL. 5-5-10 FERTILIZER SHALL BE APPLIED AT APPROXIMATELY 850 LBS PER ACRE.
- THE FOLLOWING SEED MIXTURES SHALL BE UNIFORMLY BROADCAST BY HYDROSEEDER AT THE RATES SHOWN.
  - TEMPORARY COVER:
    - SUMMER - RYEGRASS (ANNUAL OR PERENNIAL) @ 30 LBS PER ACRE
    - WINTER - CERTIFIED "AROSTOOK" WINTER RYE @ 100 LBS PER ACRE
  - PERMANENT COVER:

SPECIES	APPL. RATE	APPL. RATE
65% CREEPING RED FESCUE	85-114 LBS/AC	2.0-2.6 LBS/1000SF
20% PERENNIAL RYEGRASS	26-35 LBS/AC	0.6-0.8 LBS/1000SF
15% FINE FESCUE	19-26 LBS/AC	0.4-0.6 LBS/1000SF
TOTAL MIX	130-175 LBS/ACRE	3.0-4.0 LBS/1000SF
- THE HYDROSEEDING SLURRY SHALL CONTAIN HIGH GRADE 70% PAPER / 30% WOOD MULCH AND AN ORGANIC COMPOSITION TACKIFIER.
- OPTIMAL PLANTING DATES ARE EARLY SPRING UNTIL END OF MAY AND AUGUST THROUGH EARLY OCTOBER, SPECIAL CONSIDERATIONS FOR WATERING SHALL BE GIVEN IF PLANTING OCCURS BETWEEN JUNE AND JULY.
- AFTER GRASS COVER IS ESTABLISHED, INSPECT FOR BARE SPOTS OR WASHOUTS, REPAIR TOPSOIL AS NEEDED & REAPPLY SEED BY HAND TO FILL IN ALL UNVEGETATED VOIDS.
- VEGETATIVE GROWTH MUST ACHIEVE 95% COVERAGE WITH NO BARE AREAS GREATER THAN 18 INCHES IN DIAMETER PRIOR TO ISSUANCE OF SUBSTANTIAL COMPLETION.

**INSPECTION & MAINTENANCE PRACTICES**

THE FOLLOWING ARE INSPECTION AND MAINTENANCE PRACTICES THAT WILL BE IMPLEMENTED TO MAINTAIN EROSION PREVENTION AND SEDIMENT CONTROL.

- THE MINIMUM PRACTICAL AREAS WILL BE DENUDATED AT ONE TIME.
- ALL EROSION CONTROL AND STABILIZATION MEASURES WILL BE INSPECTED AT LEAST ONCE EVERY 7 DAYS AND FOLLOWING ANY STORM EVENT OF 0.5 INCHES OR GREATER.
- ALL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER; IF A REPAIR IS NECESSARY, IT SHALL BE INITIATED WITHIN 24 HOURS OF THE INSPECTION.
- BUILT UP SEDIMENT SHALL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE, OR PHYSICAL STRAIN ON THE FENCE IS EVIDENT.
- SILT FENCE SHALL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, FABRIC ATTACHMENT TO POSTS, AND STABILITY OF POSTS IN THE GROUND.
- CHECK DAMS SHALL BE INSPECTED FOR DEPTH OF SEDIMENT, WASHOUT, AND STABILITY OF POSTS IN THE GROUND. BUILT UP SEDIMENT SHALL BE REMOVED WHEN IT HAS REACHED ONE-HALF THE HEIGHT OF THE DAM. REPLACE DAM MATERIAL AS REQUIRED.
- THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE INSPECTED FOR SEDIMENT BUILDUP, PROPER DEPTH OF STONE AND STONE WASHOUT. IF DEGRADATION IS EVIDENT, SEDIMENT BUILDUP SHALL BE INSPECTED AND STONE PLACED TO RESTORE OPERATIONAL SURFACE.
- STOCKPILED MATERIAL SHALL BE INSPECTED AND MAINTAINED IN SUCH A MANNER THAT WILL LIMIT MIGRATION.
- NATURAL VEGETATIVE BUFFER AREAS AROUND WETLANDS, ADJUTING PROPERTY LINES, AND OTHER SENSITIVE AREAS SHALL BE ROUTINELY INSPECTED FOR SIGNS OF SEDIMENT MIGRATION, CONSTRUCTION DEBRIS, AND DAMAGE DUE TO ACTIVITY.
- TEMPORARY AND PERMANENT SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.
- A MAINTENANCE AND INSPECTION REPORT SHALL BE MADE AFTER EACH INSPECTION. A COPY OF EACH INSPECTION REPORT SHALL BE KEPT FOR RECORDS BY BOTH THE OWNER AND THE INSPECTOR.

**CONSTRUCTION SEQUENCING NOTES**

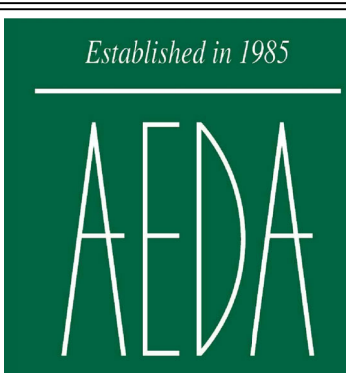
- PRIOR TO ANY OTHER SITE WORK, THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE INSTALLED, THEN SEDIMENT LOG CHECK DAMS AND SILTATION FENCING ARE TO BE CONSTRUCTED AS SHOWN, AND ARE TO BE MAINTAINED THROUGHOUT CONSTRUCTION UNTIL THE AREA IS COMPLETELY STABILIZED.
- INSTALL INLET/OUTLET PROTECTIONS PRIOR TO THE DISTURBANCE OF ANY LANDS TO PROTECT EXISTING CLOSED DRAINAGE SYSTEMS. AT COMPLETION OF WORK, INSPECT AND FLUSH ALL SEDIMENT FROM CULVERTS, STORM DRAIN PIPING, ETC.
- ALL EARTH STOCKPILES ARE TO BE STABILIZED WITH STRAW MULCH AND SEEDING WITH RYE GRASS. SILTATION FENCING TO BE PLACED AROUND THE BASE OF ALL STOCKPILES WHEREVER PRACTICAL.
- GRADING OPERATIONS FOR AREAS TO BE PAVED OR OTHERWISE DISTURBED AND UNDERGROUND UTILITIES & STORM DRAIN SYSTEMS ARE TO BE INSTALLED. ALL EROSION CONTROL MEASURES ARE TO BE MAINTAINED DURING CONSTRUCTION UNTIL ALL AREAS ARE STABILIZED.
- ALL EROSION CONTROL MEASURES SHALL BE INSPECTED WEEKLY OR AFTER EVERY RAINFALL OF 0.5" OR MORE.
- DURING CONSTRUCTION, THE CULVERTS AND END SECTIONS SHALL BE SET TO A GRADE WITH SEDIMENTATION BASINS FORMED AT THE INLET, SUCH THAT STORM WATER RUNOFF CONTAINING ACCUMULATED SILT, OR OTHER ERODED MATERIAL FROM THE CONSTRUCTION SITE WILL BE DISCHARGED TO THE RECEIVING WATERS.
- AFTER CONSTRUCTION IS COMPLETED AND VEGETATION IS ESTABLISHED IN THE DISTURBED AREAS, THE AREAS IN AND AROUND THE TEMPORARY EROSION CONTROL SYSTEM SHALL BE CLEANED UP, CARE BEING TAKEN NOT TO ALLOW THE ACCUMULATION SILT TO RUN INTO THE WETLANDS AND/OR PROTECTED AREAS. THEN THE TEMPORARY CONTROL SYSTEMS SHALL BE REMOVED AND THE AREA RETURNED AS NEAR AS POSSIBLE TO ITS NATURAL STATE.

**WINTER CONSTRUCTION NOTES**

- ALL PROPOSED VEGETATED AREAS WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATED GROWTH BY OCTOBER 15th, OR WHICH ARE DISTURBED AFTER OCTOBER 15th, SHALL BE STABILIZED WITH STONE OR EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1, AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE, SECURED WITH ANCHORED NETTING, ELSEWHERE. THE INSTALLATION OF EROSION BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR ON FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS.
- ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATED GROWTH BY OCTOBER 15th, OR WHICH ARE DISTURBED AFTER OCTOBER 15th, SHALL BE STABILIZED TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS.
- AFTER NOVEMBER 15th, INCOMPLETE ROAD OR PARKING SURFACES, WHERE WORK HAS STOPPED FOR THE WINTER SEASON, SHALL BE PROTECTED WITH A MINIMUM OF 3 INCHES OF GRAVEL PER NYSDOT ITEM #4.

**WASTE DISPOSAL NOTES**

- ALL WASTE MATERIALS SHALL BE COLLECTED AND STORED IN A SECURE AREA UNTIL REMOVAL AND DISPOSAL BY A LICENSED SOLID WASTE MANAGEMENT COMPANY. DUMPSTERS SHALL BE PROVIDED FOR ALL TRASH AND CONSTRUCTION RELATED DEBRIS. NO WASTE SHALL BE BURIED ON SITE.
- ALL SPOILS FROM CONSTRUCTION EXCAVATIONS SHALL BE HAULED TO AN APPROVED DISPOSAL SITE.
- HAZARDOUS WASTE SHALL BE DISPOSED OF IN ACCORDANCE WITH LOCAL OR STATE REGULATIONS OR BY MANUFACTURER'S INSTRUCTIONS.
- SANITARY WASTE SHALL BE COLLECTED IN PORTABLE UNITS PROVIDED ON THE SITE AND DISPOSED OF BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR.
- ALL PERSONNEL SHALL BE DIRECTED AS TO THE PROPER PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES SHALL BE POSTED ON SITE AND THE INDIVIDUAL WHO MANAGES DAY TO DAY ON-SITE OPERATIONS WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.



Architectural &  
Engineering  
DESIGN  
Associates, P.C.

1246 Rt. 3  
P.O. Box 762  
Plattsburgh, New York 12901  
tel: 518.562.1800  
fax: 518.562.1702  
email: aedapc@aedapc.com

UNAUTHORIZED ALTERATIONS AND/OR ADDITIONS TO THIS DRAWING BEARING A LICENSED ARCHITECTS OR ENGINEERS SEAL & A VIOLATION OF SECTION 209B SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION LAW.

ONLY COPIES FROM THE ORIGINAL OF THIS DRAWING BEARING THE ORIGINAL ARCHITECTS OR ENGINEERS SEAL AND SIGNATURE SHALL BE CONSIDERED VALID TRUE COPIES.

SEVILLE DEVELOPMENT, LLC  
DOLLAR GENERAL - HARTFORD  
TAX PARCEL 141.-1-36  
123 ROWE HILL RD., TOWN OF HARTFORD, WASHINGTON COUNTY, NY

DESIGN  
DEVELOPMENT  
PHASE  
SERVICES 100%

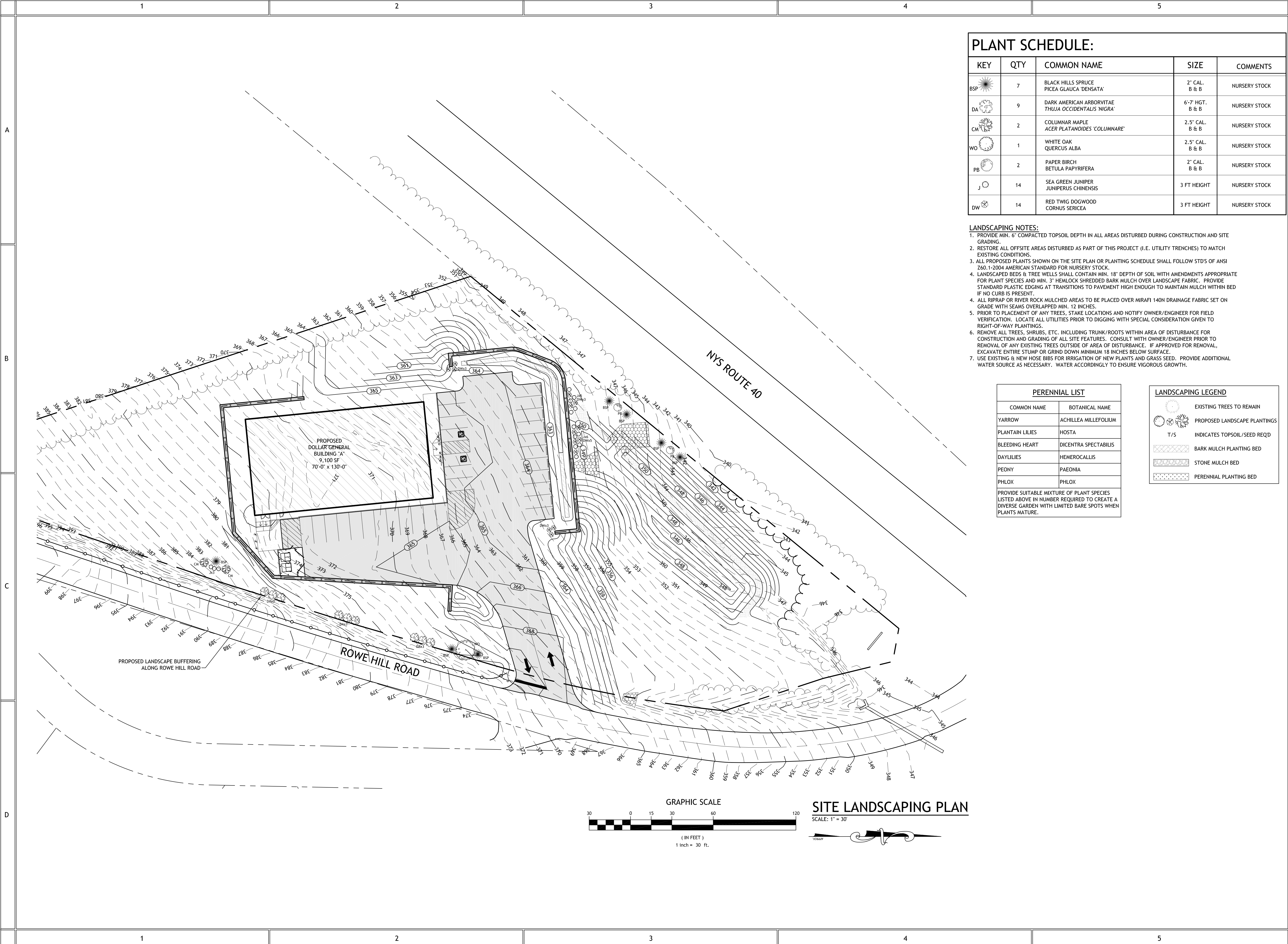


REVISIONS		
#	BY	DATE
1	MSC	01/08/20

**EROSION & SEDIMENT CONTROL PLAN**

PROJECT NO. 19029-002  
DATE 11-08-19  
DRAWN BY JBF  
CHECKED BY MSC

C105



PLANT SCHEDULE:				
KEY	QTY	COMMON NAME	SIZE	COMMENTS
BSP	7	BLACK HILLS SPRUCE PICEA GLAUCA 'DENSATA'	2" CAL. B & B	NURSERY STOCK
DA	9	DARK AMERICAN ARBORVITAE THUJA OCCIDENTALIS 'NIGRA'	6'-7' HGT. B & B	NURSERY STOCK
CM	2	COLUMNAR MAPLE ACER PLATANOIDES 'COLUMNARE'	2.5" CAL. B & B	NURSERY STOCK
WO	1	WHITE OAK QUERCUS ALBA	2.5" CAL. B & B	NURSERY STOCK
PB	2	PAPER BIRCH BETULA Papyrifera	2" CAL. B & B	NURSERY STOCK
J	14	SEA GREEN JUNIPER JUNIPERUS CHINENSIS	3 FT HEIGHT	NURSERY STOCK
DW	14	RED TWIG DOGWOOD CORNUS SERICEA	3 FT HEIGHT	NURSERY STOCK

- LANDSCAPING NOTES:**
1. PROVIDE MIN. 6" COMPACTED TOPSOIL DEPTH IN ALL AREAS DISTURBED DURING CONSTRUCTION AND SITE GRADING.
  2. RESTORE ALL OFFSITE AREAS DISTURBED AS PART OF THIS PROJECT (I.E. UTILITY TRENCHES) TO MATCH EXISTING CONDITIONS.
  3. ALL PROPOSED PLANTS SHOWN ON THE SITE PLAN OR PLANTING SCHEDULE SHALL FOLLOW STD'S OF ANSI Z60.1-2004 AMERICAN STANDARD FOR NURSERY STOCK.
  4. LANDSCAPED BEDS & TREE WELLS SHALL CONTAIN MIN. 18" DEPTH OF SOIL WITH AMENDMENTS APPROPRIATE FOR PLANT SPECIES AND MIN. 3" HEMLOCK SHREDDED BARK MULCH OVER LANDSCAPE FABRIC. PROVIDE STANDARD PLASTIC EDGING AT TRANSITIONS TO PAVEMENT HIGH ENOUGH TO MAINTAIN MULCH WITHIN BED IF NO CURB IS PRESENT.
  4. ALL RIPRAP OR RIVER ROCK MULCHED AREAS TO BE PLACED OVER MIRAFI 140N DRAINAGE FABRIC SET ON GRADE WITH SEAMS OVERLAPPED MIN. 12 INCHES.
  5. PRIOR TO PLACEMENT OF ANY TREES, STAKE LOCATIONS AND NOTIFY OWNER/ENGINEER FOR FIELD VERIFICATION. LOCATE ALL UTILITIES PRIOR TO DIGGING WITH SPECIAL CONSIDERATION GIVEN TO RIGHT-OF-WAY PLANTINGS.
  6. REMOVE ALL TREES, SHRUBS, ETC. INCLUDING TRUNK/ROOTS WITHIN AREA OF DISTURBANCE FOR CONSTRUCTION AND GRADING OF ALL SITE FEATURES. CONSULT WITH OWNER/ENGINEER PRIOR TO REMOVAL OF ANY EXISTING TREES OUTSIDE OF AREA OF DISTURBANCE. IF APPROVED FOR REMOVAL, EXCAVATE ENTIRE STUMP OR GRIND DOWN MINIMUM 18 INCHES BELOW SURFACE.
  7. USE EXISTING & NEW HOSE BIBS FOR IRRIGATION OF NEW PLANTS AND GRASS SEED. PROVIDE ADDITIONAL WATER SOURCE AS NECESSARY. WATER ACCORDINGLY TO ENSURE VIGOROUS GROWTH.

PERENNIAL LIST	
COMMON NAME	BOTANICAL NAME
YARROW	ACHILLEA MILLEFOLIUM
PLANTAIN LILIES	HOSTA
BLEEDING HEART	DICENTRA SPECTABILIS
DAYLILIES	HEMEROCALLIS
PEONY	PAEONIA
PHLOX	PHLOX
PROVIDE SUITABLE MIXTURE OF PLANT SPECIES LISTED ABOVE IN NUMBER REQUIRED TO CREATE A DIVERSE GARDEN WITH LIMITED BARE SPOTS WHEN PLANTS MATURE.	

LANDSCAPING LEGEND	
	EXISTING TREES TO REMAIN
	PROPOSED LANDSCAPE PLANTINGS
	INDICATES TOPSOIL/SEED REQD
	BARK MULCH PLANTING BED
	STONE MULCH BED
	PERENNIAL PLANTING BED

Established in 1985

AEDA

Architectural & Engineering DESIGN Associates, P.C.

1246 Rt. 3  
P.O. Box 762  
Plattsburgh, New York 12901  
tel: 518.562.1800  
fax: 518.562.1702  
email: aedapc@aedapc.com

UNAUTHORIZED ALTERATIONS AND/OR ADDITIONS TO THIS DRAWING BEARING A LICENSED ARCHITECTS OR ENGINEERS SEAL IS A VIOLATION OF SECTION 2095 SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION LAW.  
ONLY COPIES FROM THE ORIGINAL OF THIS DRAWING BEARING THE ORIGINAL ARCHITECTS OR ENGINEERS SEAL AND SIGNATURE SHALL BE CONSIDERED VALID TRUE COPIES.

SEVILLE DEVELOPMENT, LLC.  
DOLLAR GENERAL - HARTFORD  
TAX PARCEL 141.-1-36  
123 ROWE HILL RD., TOWN OF HARTFORD, WASHINGTON COUNTY, NY

REVISIONS		
#	BY	DATE

SITE LANDSCAPING PLAN

PROJECT NO. 19029-002  
DATE 01-08-20  
DRAWN BY JBF  
CHECKED BY MSC

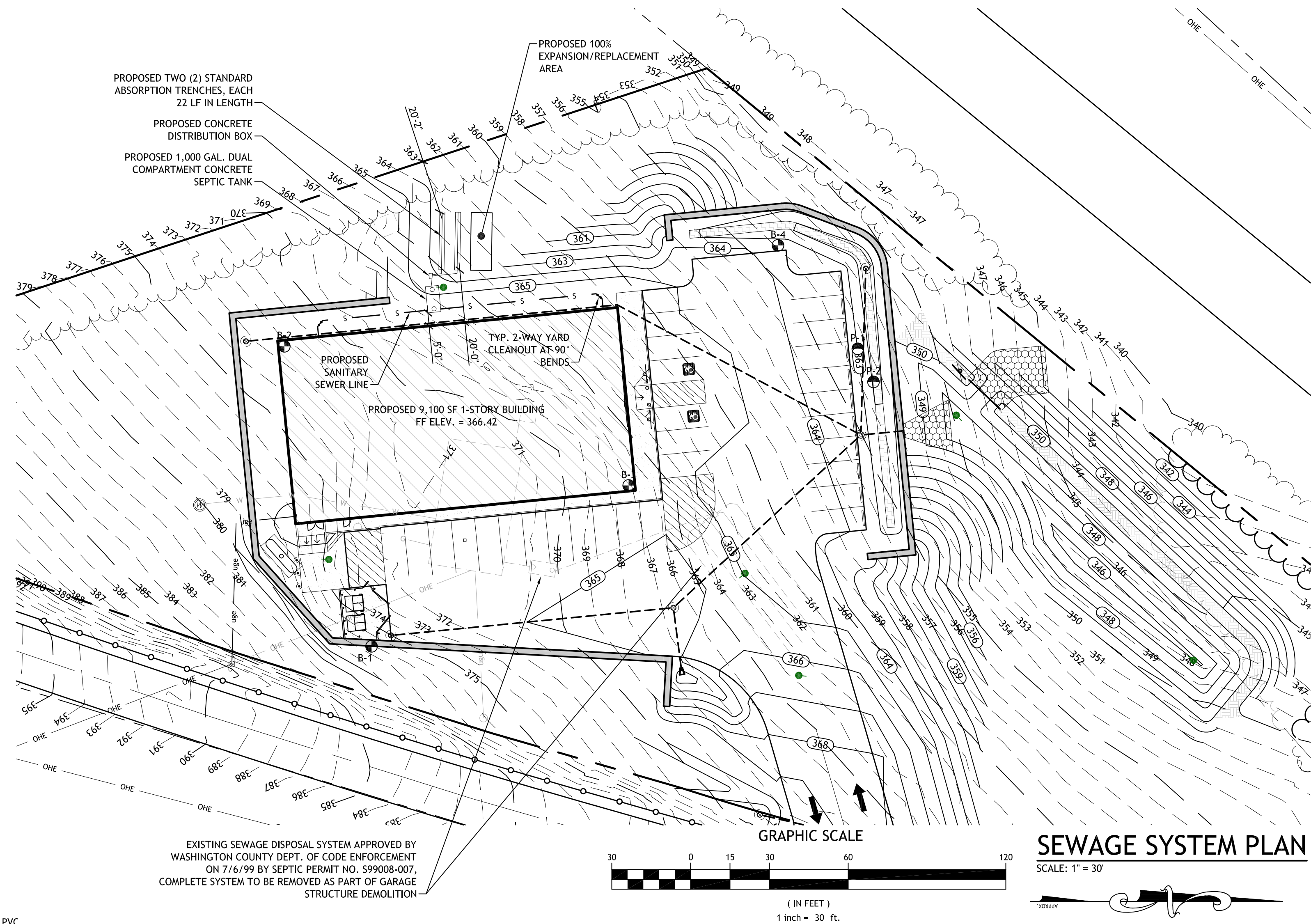
C106

REVISIONS		
#	BY	DATE

SEWAGE  
SYSTEM  
PLAN

PROJECT NO. 19029-002  
DATE 01-08-20  
DRAWN BY JBF  
CHECKED BY MSC

C201



## ORIGINAL SOIL DATA (10/31/19)

DRILL BORINGS CONDUCTED BY AZTEC ENVIRONMENTAL IN OCTOBER 2019  
(LOCATED AS INDICATED ON PLANS) WITH ANALYSIS PERFORMED BY  
DANIEL LOUCKS, P.E.

## TEST BORING DATA (B-1)

0'-6" TOPSOIL  
6'-24" FINE TO MEDIUM SAND, TRACE TO SOME GRAVEL, CLAYEY SILT, BROWN, MOIST MEDIUM DENSE (SM)  
24'-48" FINE TO MEDIUM GRAVEL, SOME SAND, TRACE TO SOME CLAYEY SILT, BROWN MOIST, LOOSE (GM)  
48'-72" FINE TO COARSE SAND, TRACE TO SOME GRAVEL, CLAYEY SILT, BROWN, MOIST, LOOSE (SM)

NO GROUND WATER OBSERVED

## TEST BORING DATA (B-2)

0'-12" TOPSOIL FINE TO COARSE SAND, SOME CLAYEY SILT, TRACE TO SOME GRAVEL, DARK BROWN, MOIST, MEDIUM DENSE (SM)  
12'-24" COBBLE OR BOULDER  
24'-72" FINE TO COARSE SAND, TRACE TO SOME CLAYEY SILT, TRACE GRAVEL, BROWN, MOIST, LOOSE TO MEDIUM DENSE, (SM-SP) (ML) OCCASIONAL CLAYEY SILT, LAYERS

NO GROUND WATER OBSERVED

## TEST BORING DATA (B-3)

0'-48" MEDIUM TO COARSE GRAVEL, TRACE TO SOME CLAYEY SILT, BROWN/GRAY, MOIST, MEDIUM DENSE, (GM-SM) FILL  
48'-72" FINE TO COARSE SAND, SOME GRAVEL, TRACE TO SOME CLAYEY SILT, BROWN, MOIST, LOOSE, (SM)

NO GROUND WATER OBSERVED

## TEST BORING DATA (B-4)

0'-6" TOPSOIL  
6'-72" FINE TO COARSE SAND, TRACE TO SOME GRAVEL, CLAYEY SILT, BROWN, MOIST, LOOSE, (SM)

NO GROUND WATER OBSERVED

TOTAL DEPTH OF USABLE SOIL AT ALL LOCATIONS: MORE THAN 72"

PERC TESTS WERE CONDUCTED BY AEDA, P.C., ON APRIL 09, 2019  
(LOCATED AS INDICATED ON PLANS)

## PERC TEST DATA

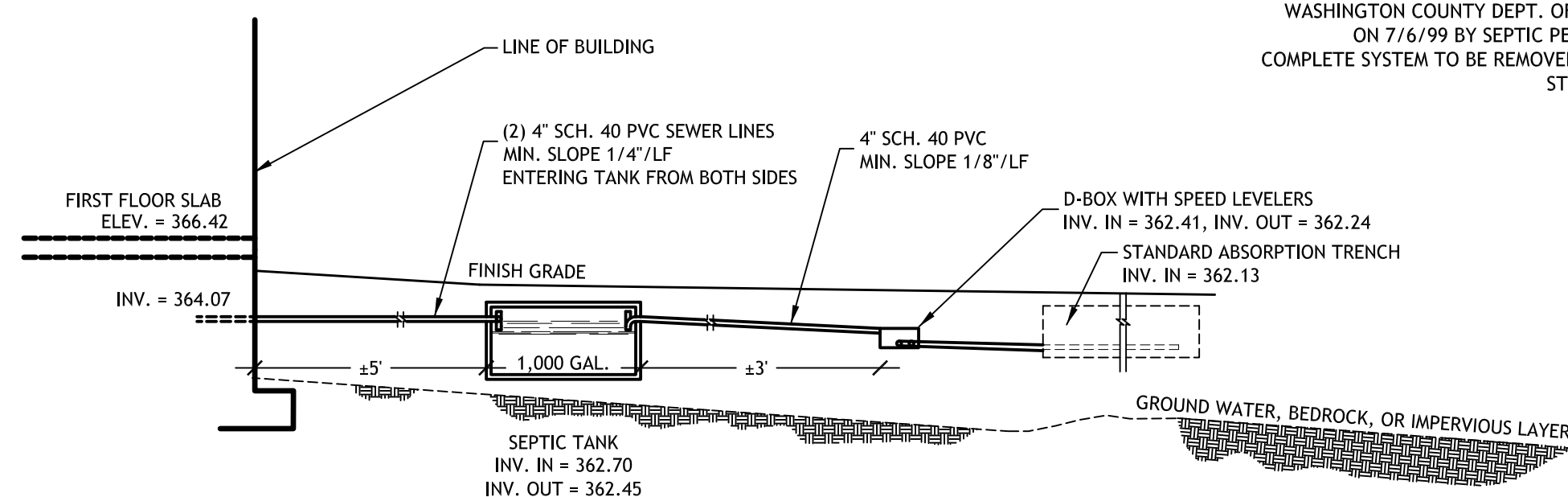
## TEST HOLE P-1

RUN 1 - 1 MIN. 11 SEC.  
RUN 2 - 1 MIN. 26 SEC.  
RUN 3 - 1 MIN. 53 SEC.  
RUN 4 - 1 MIN. 50 SEC.

RESULTING PERC. RATE:  
USE 1 MIN. 50 SEC.  
DESIGN PERC. RATE: 1-3 MIN/INCH

TEST HOLE P-2  
RUN 1 - 1 MIN. 27 SEC.  
RUN 2 - 1 MIN. 41 SEC.  
RUN 3 - 1 MIN. 56 SEC.  
RUN 4 - 2 MIN. 10 SEC.

RESULTING PERC. RATE:  
USE 2 MIN. 10 SEC.



## TYP. SEPTIC SYSTEM PROFILE

N.T.S.

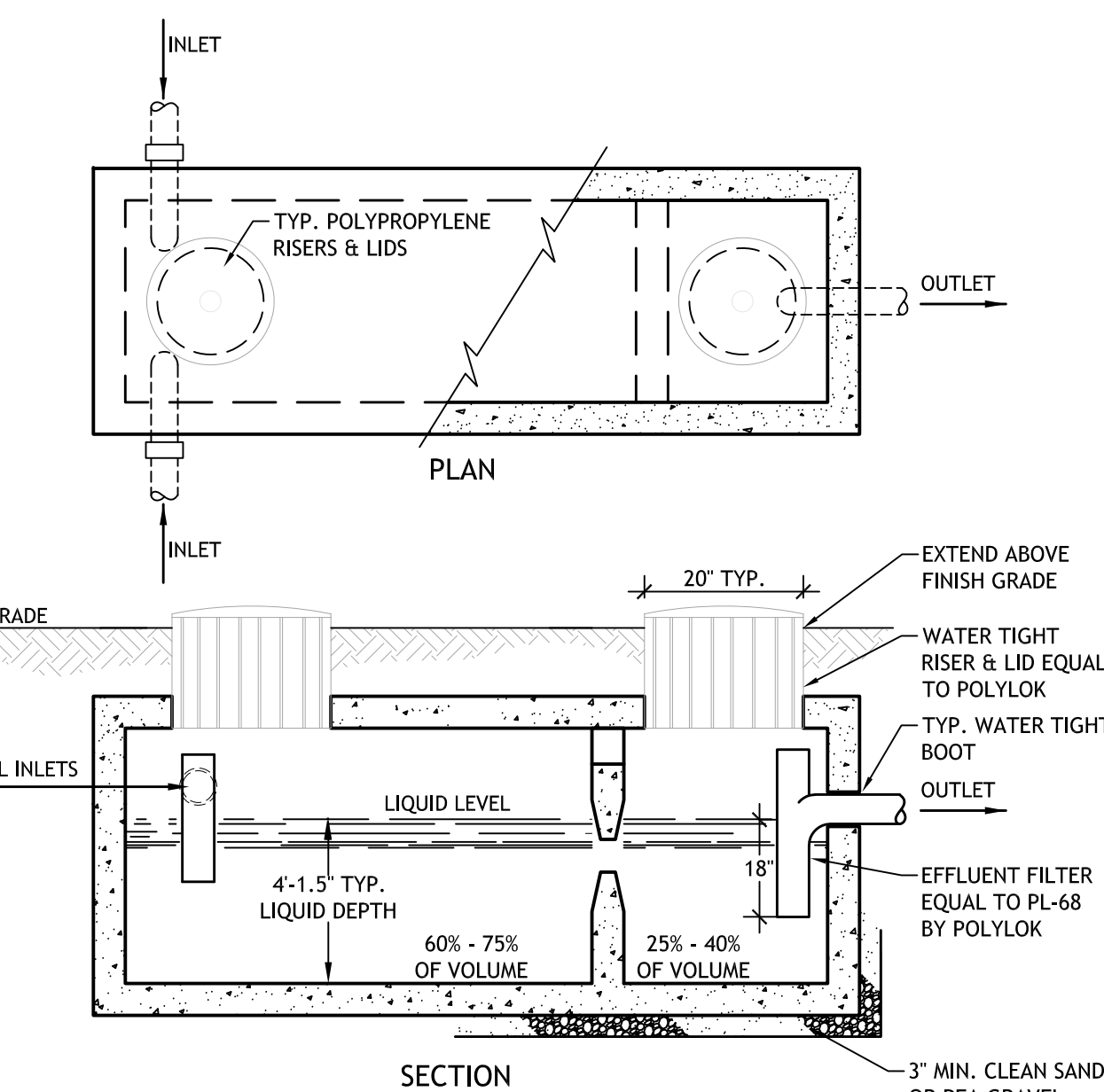
## ABSORPTION TRENCH SIZING

PERCOLATION RATE	APPLICATION RATE	REQUIRED AREA	REQUIRED LENGTH
1 - 5 MIN.	1.20 gpd/sf	83 sf	42 L.F.

\* DESIGN FLOW = 100 gpd  
PROVIDED ABSORPTION TRENCH: 2 LATERALS @ 22 L.F.  
TOTAL LENGTH = 44 L.F.

## STD. ABSORPTION TRENCH REQUIREMENTS:

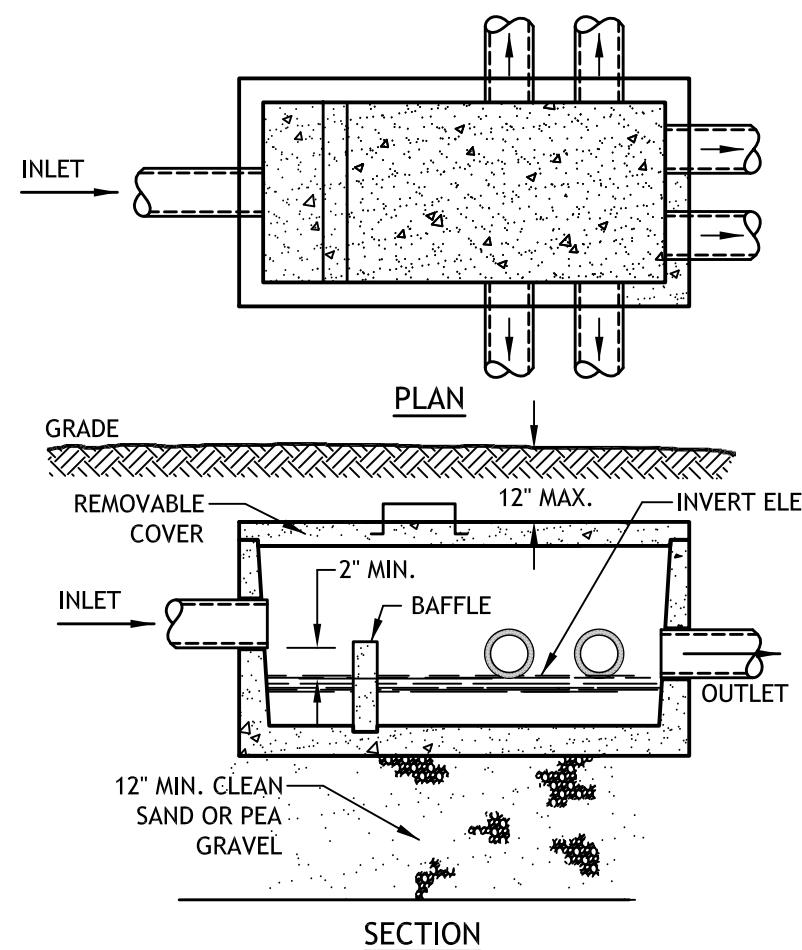
- TRENCHES ARE TO BE 24" WIDE, AND INSTALLED PARALLEL TO GROUND CONTOURS.
- TRENCH BOTTOMS MUST BE LEVEL AND AT LEAST 2' ABOVE THE HIGH GROUNDWATER LEVEL, BEDROCK, IMPERMEABLE SOIL OR LIMITING FACTOR.
- SIDES AND BOTTOMS OF TRENCHES MUST BE RAKED PRIOR TO PLACEMENT OF CRUSHED STONE.
- THE AGGREGATE REQUIRED IS WASHED GRAVEL OR CRUSHED STONE  $\frac{3}{4}$ " TO  $1\frac{1}{2}$ " IN DIAMETER. LARGER DIAMETER MATERIAL, FINE SUBSTANCES, OR RUN OF BANK GRAVEL ARE UNACCEPTABLE.
- MINIMUM DEPTH OF CRUSHED STONE MUST BE 12" (6" OF CRUSHED STONE BELOW THE DISTRIBUTION PIPE LINE AND 2" ABOVE THE PIPE).
- PERFORATED PIPE IS TO BE GRADED BETWEEN  $\frac{1}{16}$ " AND  $\frac{3}{32}$ " PER FOOT WITHIN THE CRUSHED STONE.
- ALL ABSORPTION TRENCHES ARE TO BE OF EQUAL LENGTH, A MAXIMUM OF 100 FT LONG.
- ALL LINES MUST ORIGINATE DIRECTLY FROM THE DISTRIBUTION BOX. AT LEAST THE FIRST 5' OF EACH PIPE CONNECTION FROM THE D-BOX TO THE TRENCHES MUST BE SOLID, AND ALL OF THESE SOLID PIPES SHOULD HAVE THE SAME PITCH.
- THERE MUST BE AT LEAST 4' OF UNDISTURBED SOIL BETWEEN ADJACENT TRENCHES.
- ALL ABSORPTION TRENCHES MUST BE A MINIMUM OF 100' FROM ANY WELL OR BODY OF WATER.
- ALL ABSORPTION TRENCHES MUST BE AT LEAST 10' FROM ANY PROPERTY LINE AND 20' FROM ANY BASEMENT FOUNDATION.
- FINISHED TRENCHES ARE TO BE COVERED WITH UNTREATED BUILDING PAPER, PERMEABLE GEOTEXTILE FABRIC, OR A 4" THICK LAYER OF HAY.
- THE SOIL BACKFILL OVER THE HAY OR BUILDING PAPER SHOULD NOT EXCEED 12'.
- ENDS OF PIPES MUST BE PROPERLY CAPPED (I.E. STANDARD PVC PLASTIC END CAPS).
- PRIOR TO COMPLETING FINAL SYSTEM BACKFILL, THE CCHD SHALL BE CONTACTED FOR PURPOSES OF COMPLETING A FINAL SEPTIC SYSTEM INSPECTION.



## TYP. SEPTIC TANK DETAIL

N.T.S.

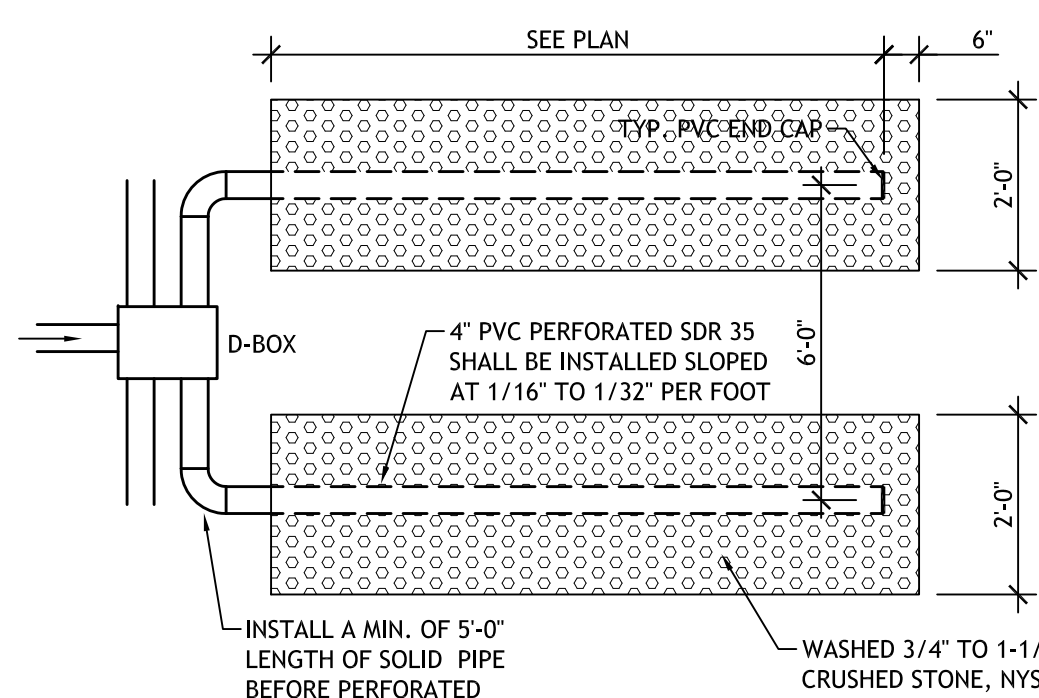
- NOTES:
- SEPTIC TANK SHALL BE INSTALLED LEVEL.
  - USE 1,000 GALLON DUAL COMPARTMENT WATERPROOF PRECAST CONCRETE TANK.
  - ALL TANKS MUST CONFORM TO PART 75-A SPECIFICATIONS OF THE NEW YORK STATE SANITARY CODE.
  - ADJUST RISER HEIGHT AS NECESSARY TO MEET FINISHED GRADE.



## TYP. D-BOX DETAIL

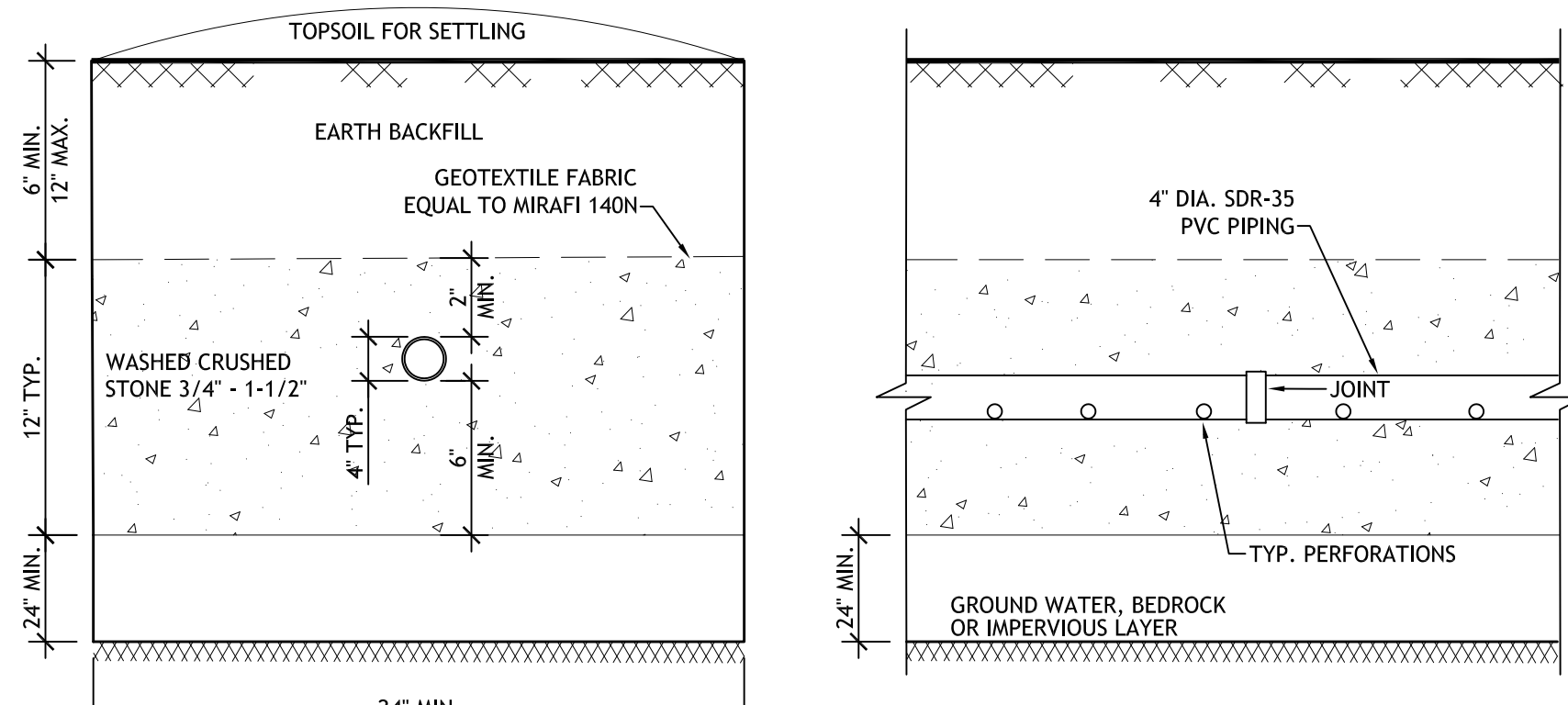
N.T.S.

- NOTES:
- PIPE JOINTS TO BE SEALED WITH ASPHALTIC MATERIAL OR EQUIVALENT.
  - INVERT ELEVATIONS OF ALL OUTLET PIPES MUST BE EQUAL.
  - THE SLOPE OF OUTLET PIPES BETWEEN THE DISTRIBUTION BOX AND DISTRIBUTOR LATERALS SHOULD BE  $\frac{1}{8}$ " PER FOOT.
  - PROVIDE & INSTALL SPEED LEVELERS ON ALL DISTRIBUTION LINES.
  - PROVIDE & INSTALL 5'-0" MIN. OF SOLID PIPE BETWEEN D-BOX & PERFORATED LEACH LINES.
  - THIS PROJECT WILL REQUIRE MIN. 2-OUTLETS IN D-BOX, SPECIFIED SIZE OF 6-OUTLET PROVIDES ADDITIONAL CAPACITY.



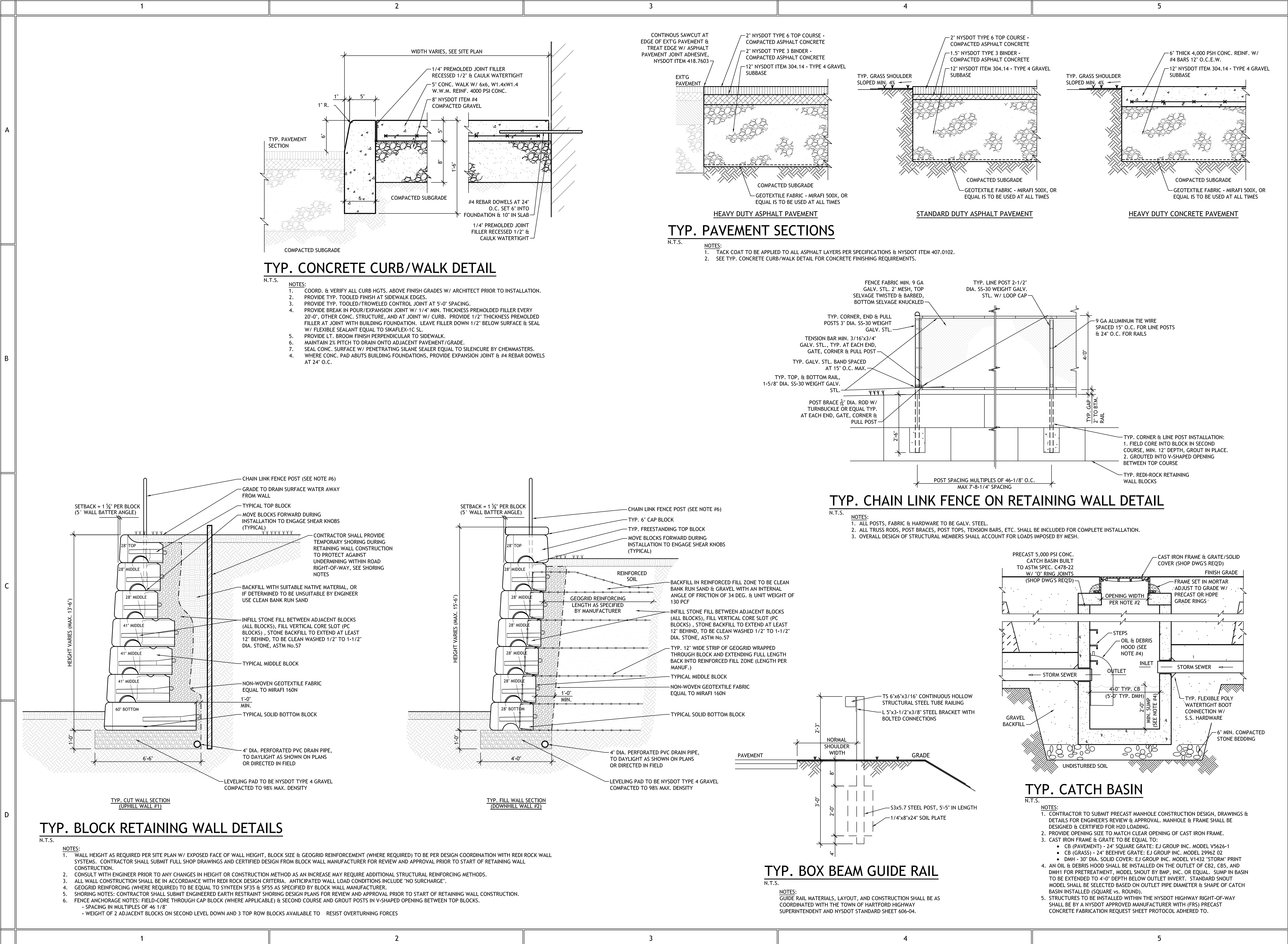
## TYP. ABSORPTION TRENCH DETAIL

N.T.S.



## TYP. ABSORPTION TRENCH SECTION

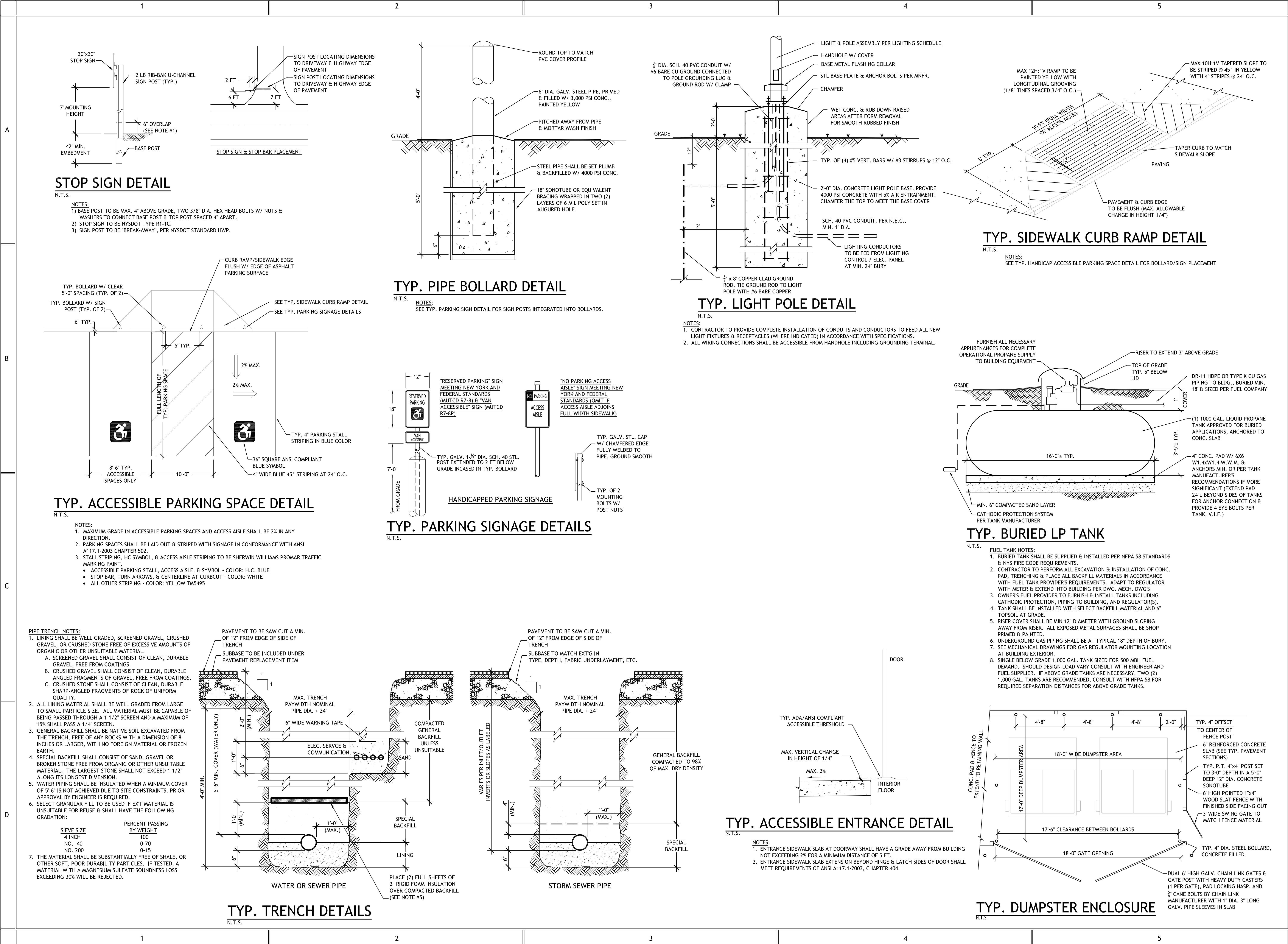
N.T.S.



REVISIONS		
#	BY	DATE
1	MSC	01/08/20

SITE DETAILS

PROJECT NO.	19029-002
DATE	11-08-19
DRAWN BY	JBF
CHECKED BY	MSC



REVISIONS		
#	BY	DATE
1	MSC	01/08/20

## SITE DETAILS

PROJECT NO. 19029-002  
DATE 11-08-19  
DRAWN BY JBF  
CHECKED BY MSC

