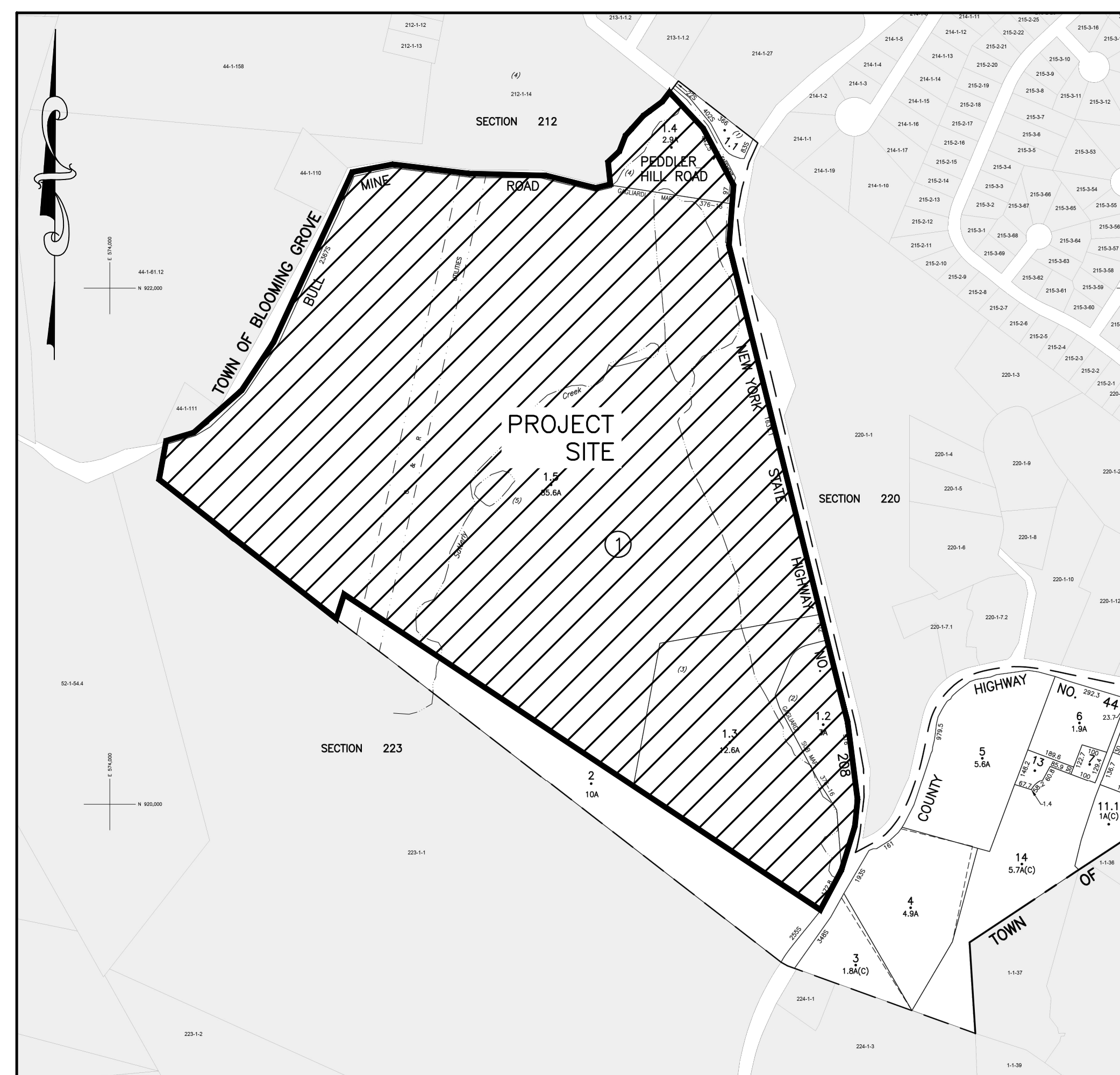
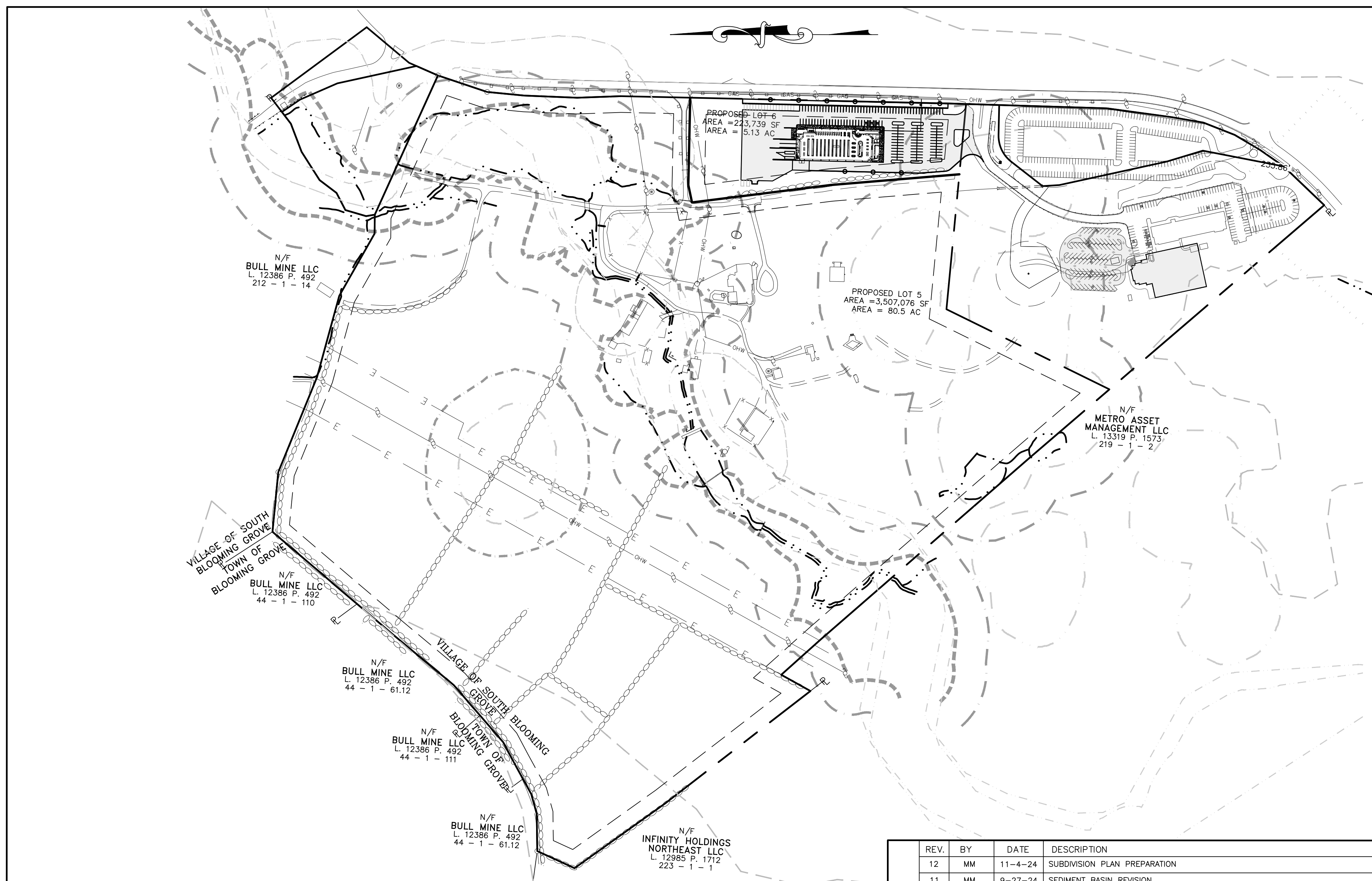


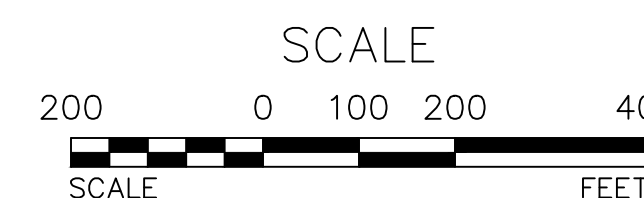
AMENDED SITE PLAN & SUBDIVISION PREPARED FOR BAILIE LANE ESTATES LLC VILLAGE OF SOUTH BLOOMING GROVE ORANGE COUNTY, NEW YORK



LOCATION MAP
SCALE: 1"=400'
SOURCE: OCWAGIS TAX MAPS



TITLE SHEET
SCALE: 1"=200'



GENERAL NOTES:

1. RECORD OWNER & APPLICANT:
BAILIE LANE ESTATES LLC
65 STEUBEN ST
BROOKLYN NY 11205
2. PROPERTY ADDRESS:
15 BAILIE & 8-16 DEVAN DR
VILLAGE OF SOUTH BLOOMING GROVE
ORANGE COUNTY, NEW YORK
3. TAX MAP NUMBER:
SECTION 219, BLOCK 1, LOT 1.5
4. DEED 14934 PAGE: 952
5. PARCEL AREA/SIZE:
85.60 ACRES

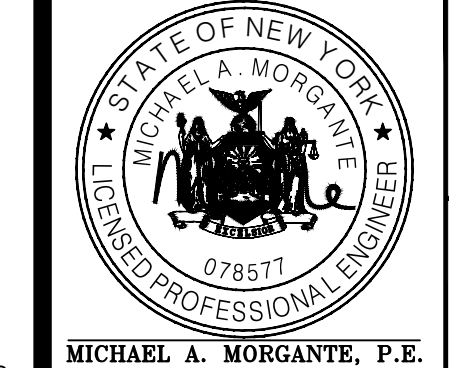
DRAWING LIST

SHEET #	SHEET TITLE	ORIGINAL DATE/ LATE REVISED DATE
01 OF 22	TITLE SHEET	6-28-22/11-4-24
02 OF 22	EXISTING CONDITIONS PLAN 01	6-28-22/11-4-24
03 OF 22	EXISTING CONDITIONS PLAN 02	6-28-22/11-4-24
04 OF 22	SUBDIVISION PLAN	11-4-24/
05 OF 22	SUBDIVISION & SITE PLAN	6-28-22/11-4-24
06 OF 22	GRADING & UTILITY PLAN 01	6-28-22/11-4-24
07 OF 22	GRADING & UTILITY PLAN 02	6-28-22/11-4-24
08 OF 22	SEWER & WATER PROFILE	6-28-22/11-4-24
09 OF 22	EROSION AND SEDIMENT CONTROL PLAN	6-28-22/11-4-24
10 OF 22	EROSION & SEDIMENT CONTROL DETAILS	6-28-22/11-4-24
11 OF 22	EROSION & SEDIMENT CONTROL DETAILS	6-28-22/11-4-24
12 OF 22	LANDSCAPING PLAN	1-15-24/11-4-24
13 OF 22	LANDSCAPING DETAILS	6-28-22/11-4-24
14 OF 22	LIGHTING PLAN	6-28-22/11-4-24
15 OF 22	STORMWATER CONSTRUCTION DETAILS	6-28-22/11-4-24
16 OF 22	STORMWATER CONSTRUCTION DETAILS	6-28-22/11-4-24
17 OF 22	STORMWATER CONSTRUCTION DETAILS	6-28-22/11-4-24
18 OF 22	TURNING DIAGRAMS	6-28-22/11-4-24
19 OF 22	CONSTRUCTION DETAILS	6-28-22/11-4-24
20 OF 22	SEWAGE DISPOSAL DETAILS	6-28-22/11-4-24
21 OF 22	WATER SUPPLY DETAILS	6-28-22/11-4-24
22 OF 22	CONSTRUCTION SPECIFICATIONS	6-28-22/11-4-24

REV.	BY	DATE	DESCRIPTION
12	MM	11-4-24	SUBDIVISION PLAN PREPARATION
11	MM	9-27-24	SEDIMENT BASIN REVISION
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5	MM	1-18-24	MINOR DRAINAGE & SITE PLAN REVISIONS FOR CONSTRUCTION
4	MM	1-15-24	SW DETAIL & DRAINAGE REVISIONS
3	MM	11-30-23	TRANSFORMER LOCATION ADDED
2	MM	5-23-23	SWPPP REVISIONS
1	MM	8-15-22	PREPARATION OF PRELIMINARY PLANS

THIS SHEET IS NOT VALID WITHOUT ALL OF THE SHEETS THAT COMPRISE THE SET

ARDEN CONSULTING ENGINEERS, PLLC
P.O. BOX 340 MONROE, N.Y.
TEL: (845) 782-8114
WWW.ARDENCONSULTING.NET



AMENDED SITE PLAN & SUBDIVISION FOR
BAILIE LANE ESTATES LLC
VILLAGE OF SOUTH BLOOMING GROVE
ORANGE COUNTY, NEW YORK

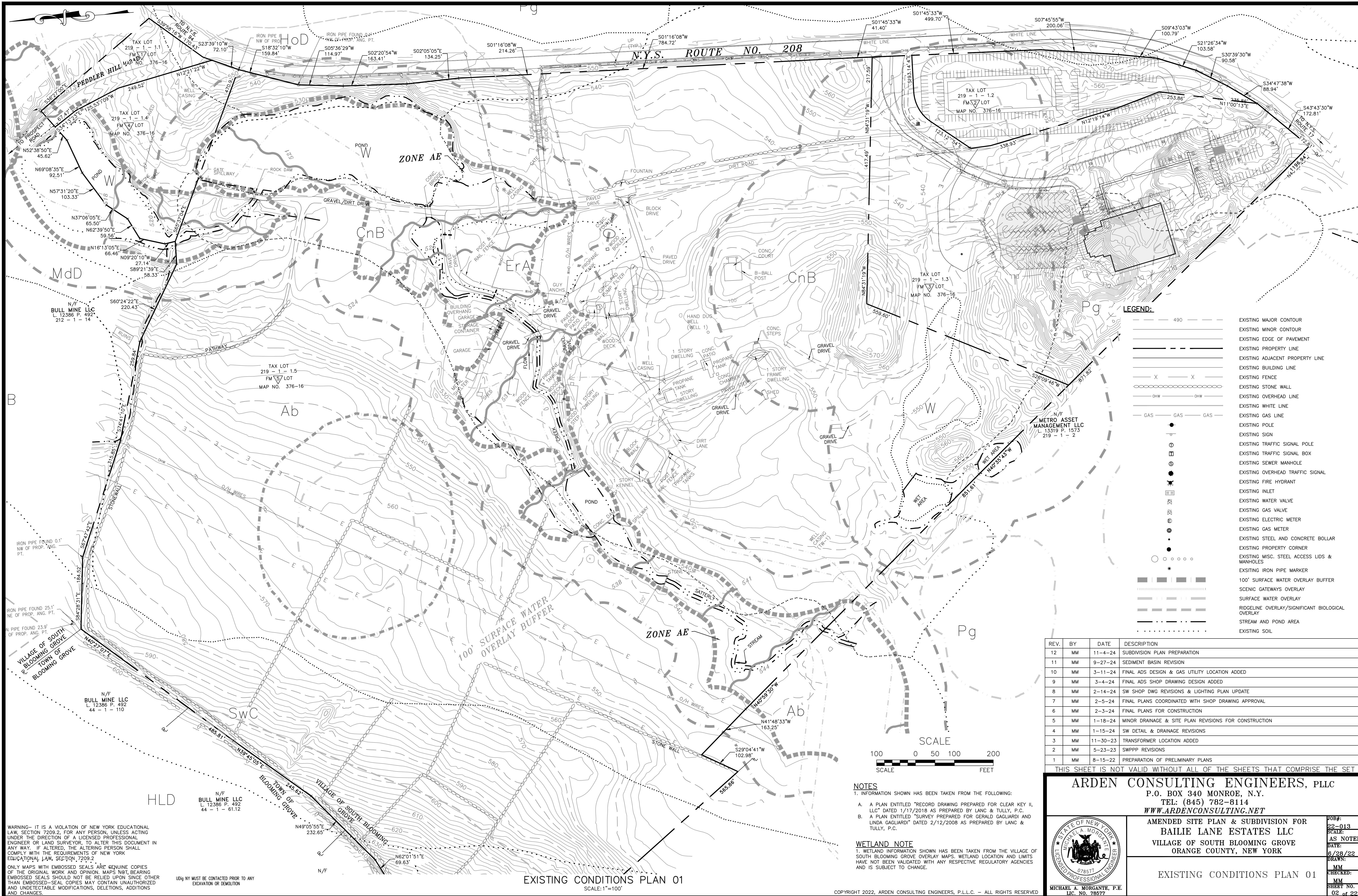
TITLE SHEET

JOB#: 22-013
SCALE: AS NOTED
DATE: 6/28/22
DRAWN: MM
CHECKED: MM
SHEET NO. 01 of 22

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UDg NY MUST BE CONTACTED PRIOR TO ANY EXCAVATION OR DEMOLITION



LEGEND:

---	490	EXISTING MAJOR CONTOUR
---		EXISTING MINOR CONTOUR
---		EXISTING EDGE OF PAVEMENT
---		EXISTING PROPERTY LINE
---		EXISTING ADJACENT PROPERTY LINE
---		EXISTING BUILDING LINE
X X		EXISTING FENCE
○		EXISTING STONE WALL
OHW		EXISTING OVERHEAD LINE
---		EXISTING WHITE LINE
---		EXISTING GAS LINE
---		EXISTING POLE
○		EXISTING SIGN
○		EXISTING TRAFFIC SIGNAL POLE
□		EXISTING TRAFFIC SIGNAL BOX
○		EXISTING SEWER MANHOLE
○		EXISTING OVERHEAD TRAFFIC SIGNAL
○		EXISTING FIRE HYDRANT
○		EXISTING INLET
○		EXISTING WATER VALVE
○		EXISTING GAS VALVE
○		EXISTING ELECTRIC METER
○		EXISTING GAS METER
○		EXISTING STEEL AND CONCRETE BOLLAR
○		EXISTING PROPERTY CORNER
○		EXISTING MISC. STEEL ACCESS LIDS & MANHOLES
○		EXISTING IRON PIPE MARKER
---		100' SURFACE WATER OVERLAY BUFFER
---		SCENIC GATEWAYS OVERLAY
---		SURFACE WATER OVERLAY
---		RIDGELINE OVERLAY/SIGNIFICANT BIOLOGICAL OVERLAY
---		STREAM AND POND AREA
---		EXISTING SOIL

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**AMENDED SITE PLAN & SUBDIVISION FOR
BAILIE LANE ESTATES LLC
VILLAGE OF SOUTH BLOOMING GROVE
ORANGE COUNTY, NEW YORK**

EXISTING CONDITIONS PLAN 01

JOB#: 22-013
SCALE: AS NOTED
DATE: 6/28/22
DRAWN: MM
CHECKED: MM
SHEET NO. 02 of 22

MICHAEL A. MORGANTE, P.E.
LIC. NO. 78577

NOTES
1. INFORMATION SHOWN HAS BEEN TAKEN FROM THE FOLLOWING:
A. A PLAN ENTITLED "RECORD DRAWING PREPARED FOR CLEAR KEY II, LLC" DATED 1/17/2018 AS PREPARED BY LANC & TULLY, P.C.
B. A PLAN ENTITLED "SURVEY PREPARED FOR GERALD GAGLIARDI AND LINDA GAGLIARDI" DATED 2/12/2008 AS PREPARED BY LANC & TULLY, P.C.

WETLAND NOTE
1. WETLAND INFORMATION SHOWN HAS BEEN TAKEN FROM THE VILLAGE OF SOUTH BLOOMING GROVE OVERLAY MAPS. WETLAND LOCATION AND LIMITS HAVE NOT BEEN VALIDATED WITH ANY RESPECTIVE REGULATORY AGENCIES AND IS SUBJECT TO CHANGE.

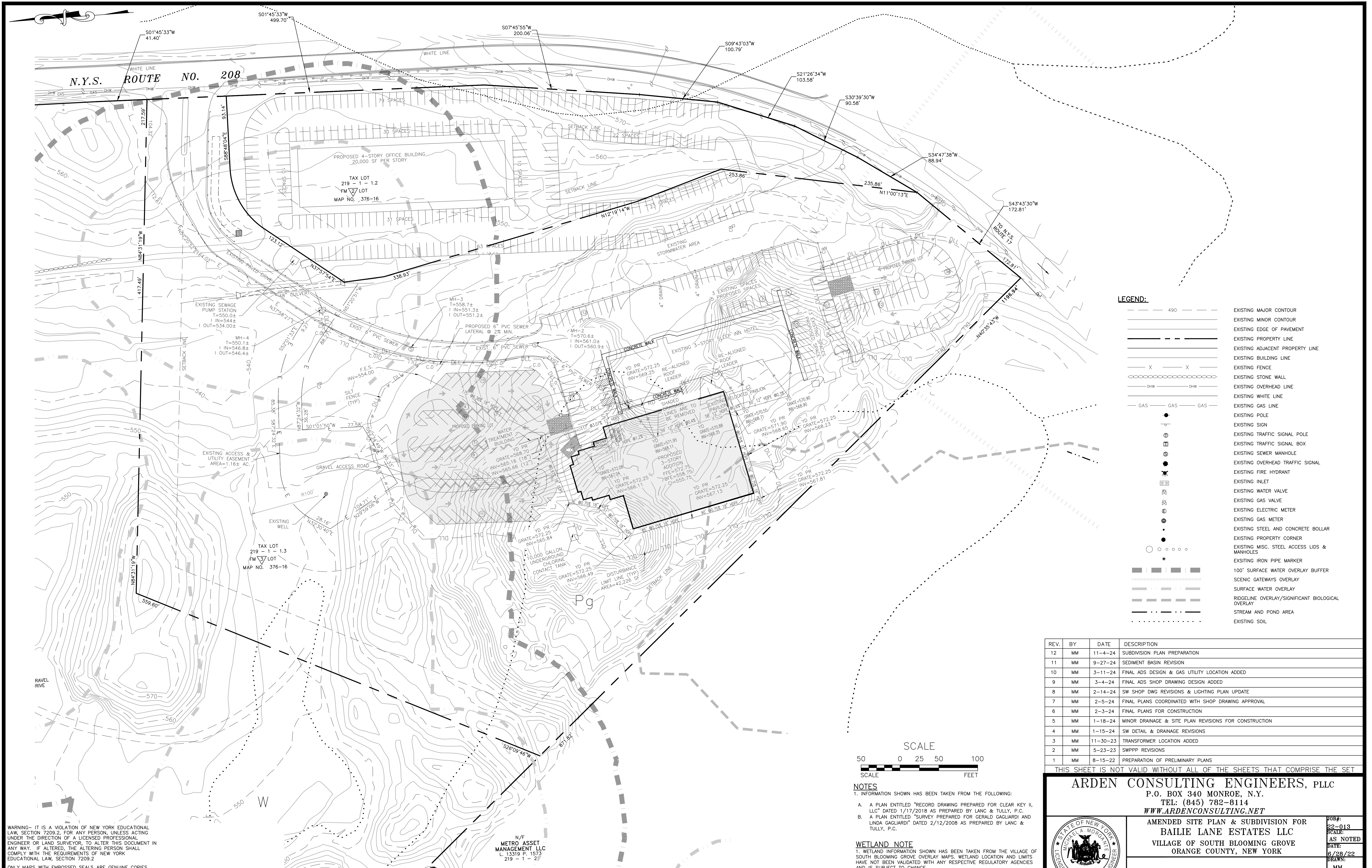
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EXISTING CONDITIONS PLAN 01
SCALE: 1"=100'

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LEGEND:

---	490	EXISTING MAJOR CONTOUR
---		EXISTING MINOR CONTOUR
---		EXISTING EDGE OF PAVEMENT
---		EXISTING PROPERTY LINE
---		EXISTING ADJACENT PROPERTY LINE
---		EXISTING BUILDING LINE
X	X	EXISTING FENCE
---		EXISTING STONE WALL
---		EXISTING OVERHEAD LINE
---		EXISTING WHITE LINE
---		EXISTING GAS LINE
---		EXISTING POLE
---		EXISTING SIGN
---		EXISTING TRAFFIC SIGNAL POLE
---		EXISTING TRAFFIC SIGNAL BOX
---		EXISTING SEWER MANHOLE
---		EXISTING OVERHEAD TRAFFIC SIGNAL
---		EXISTING FIRE HYDRANT
---		EXISTING INLET
---		EXISTING WATER VALVE
---		EXISTING GAS VALVE
---		EXISTING ELECTRIC METER
---		EXISTING GAS METER
---		EXISTING STEEL AND CONCRETE BOLLAR
---		EXISTING PROPERTY CORNER
---		EXISTING MISC. STEEL ACCESS LIDS & MANHOLES
---		EXISTING IRON PIPE MARKER
---		100' SURFACE WATER OVERLAY BUFFER
---		SCENIC GATEWAYS OVERLAY
---		SURFACE WATER OVERLAY
---		RIDGELINE OVERLAY/SIGNIFICANT BIOLOGICAL OVERLAY
---		STREAM AND POND AREA
---		EXISTING SOIL

REV.	BY	DATE	DESCRIPTION
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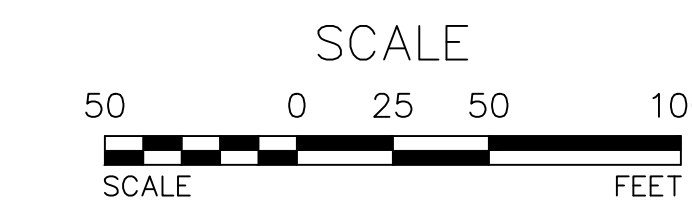
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**AMENDED SITE PLAN & SUBDIVISION FOR
BAILIE LANE ESTATES LLC
VILLAGE OF SOUTH BLOOMING GROVE
ORANGE COUNTY, NEW YORK**

JOB#: 22-013
SCALE: AS NOTED
DATE: 6/28/22
DRAWN: MM
CHECKED: MM
SHEET NO. 03 of 23

EXISTING CONDITIONS PLAN 02

MICHAEL A. MORGANTE, P.E.
LIC. NO. 78577



- NOTES**
1. INFORMATION SHOWN HAS BEEN TAKEN FROM THE FOLLOWING:
 - A. A PLAN ENTITLED "RECORD DRAWING PREPARED FOR CLEAR KEY II, LLC" DATED 1/17/2018 AS PREPARED BY LANC & TULLY, P.C.
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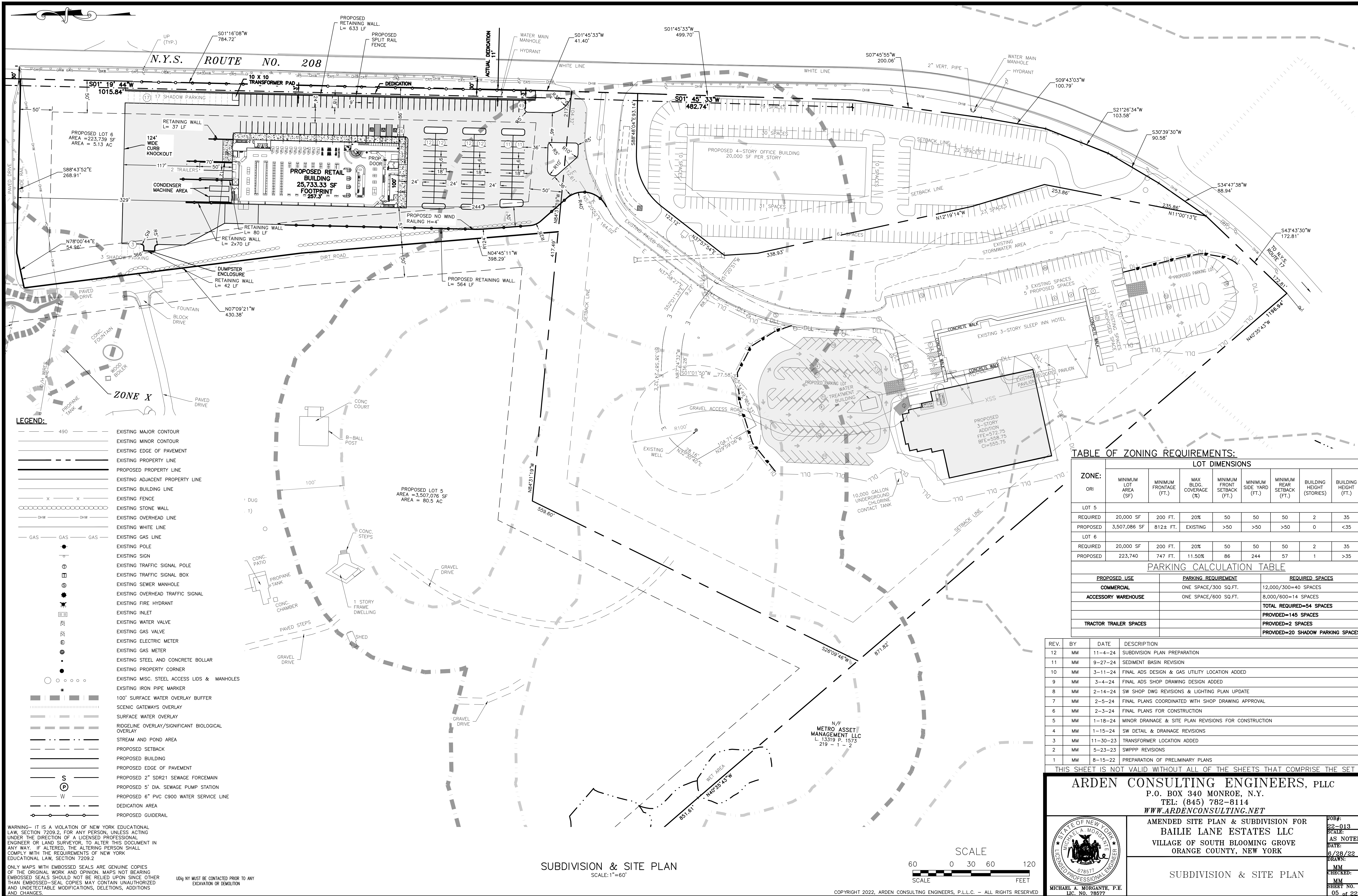
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100' NY MUST BE CONTACTED PRIOR TO ANY EXCAVATION OR DEMOLITION

N/F
**METRO ASSET
MANAGEMENT, LLC**
L 13319 P. 1573
219 - 1 - 2

EXISTING CONDITIONS PLAN 02
SCALE: 1"=50'



- LEGEND:**
- 490 --- EXISTING MAJOR CONTOUR
 - EXISTING MINOR CONTOUR
 - EXISTING EDGE OF PAVEMENT
 - EXISTING PROPERTY LINE
 - PROPOSED PROPERTY LINE
 - EXISTING ADJACENT PROPERTY LINE
 - EXISTING BUILDING LINE
 - X X EXISTING FENCE
 - ○ ○ ○ ○ EXISTING STONE WALL
 - OHW --- OHW EXISTING OVERHEAD LINE
 - EXISTING WHITE LINE
 - EXISTING GAS LINE
 - EXISTING POLE
 - ⊕ EXISTING SIGN
 - ⊕ EXISTING TRAFFIC SIGNAL POLE
 - ⊕ EXISTING TRAFFIC SIGNAL BOX
 - ⊕ EXISTING SEWER MANHOLE
 - ⊕ EXISTING OVERHEAD TRAFFIC SIGNAL
 - ⊕ EXISTING FIRE HYDRANT
 - ⊕ EXISTING INLET
 - ⊕ EXISTING WATER VALVE
 - ⊕ EXISTING GAS VALVE
 - ⊕ EXISTING ELECTRIC METER
 - ⊕ EXISTING GAS METER
 - ⊕ EXISTING STEEL AND CONCRETE BOLLAR
 - EXISTING PROPERTY CORNER
 - ○ ○ ○ ○ EXISTING MISC. STEEL ACCESS LIDS & MANHOLES
 - EXISTING IRON PIPE MARKER
 - 100' SURFACE WATER OVERLAY BUFFER
 - SCENIC GATEWAYS OVERLAY
 - SURFACE WATER OVERLAY
 - RIDGELINE OVERLAY/SIGNIFICANT BIOLOGICAL OVERLAY
 - STREAM AND POND AREA
 - PROPOSED SETBACK
 - PROPOSED BUILDING
 - PROPOSED EDGE OF PAVEMENT
 - S --- PROPOSED 2" SDR21 SEWAGE FORCEMAIN
 - P --- PROPOSED 5" DIA. SEWAGE PUMP STATION
 - W --- PROPOSED 6" PVC C900 WATER SERVICE LINE
 - DEDICATION AREA
 - PROPOSED GUIDERAIL

TABLE OF ZONING REQUIREMENTS:

ZONE:	LOT DIMENSIONS							
	MINIMUM LOT AREA (SF)	MINIMUM FRONTAGE (FT.)	MAX BLDG. COVERAGE (%)	MINIMUM FRONT SETBACK (FT.)	MINIMUM SIDE YARD (FT.)	MINIMUM REAR SETBACK (FT.)	BUILDING HEIGHT (STORIES)	BUILDING HEIGHT (FT.)
LOT 5								
REQUIRED	20,000 SF	200 FT.	20%	50	50	50	2	35
PROPOSED	3,507,086 SF	812± FT.	EXISTING	>50	>50	>50	0	<35
LOT 6								
REQUIRED	20,000 SF	200 FT.	20%	50	50	50	2	35
PROPOSED	223,740	747 FT.	11.50%	86	244	57	1	>35

PARKING CALCULATION TABLE

PROPOSED USE	PARKING REQUIREMENT	REQUIRED SPACES
COMMERCIAL	ONE SPACE/300 SQ.FT.	12,000/300=40 SPACES
ACCESSORY WAREHOUSE	ONE SPACE/600 SQ.FT.	8,000/600=14 SPACES
		TOTAL REQUIRED=54 SPACES
		PROVIDED=145 SPACES
TRACTOR TRAILER SPACES		PROVIDED=2 SPACES
		PROVIDED=20 SHADOW PARKING SPACES

REV. BY DATE DESCRIPTION

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AMENDED SITE PLAN & SUBDIVISION FOR
BAILIE LANE ESTATES LLC
VILLAGE OF SOUTH BLOOMING GROVE
ORANGE COUNTY, NEW YORK

SCALE
0 30 60 120
SCALE FEET

STATE OF NEW YORK
MICHAEL A. MORGANTE, P.E.
LIC. NO. 078577

JOB#: 22-013
SCALE: AS NOTED
DATE: 6/28/22
DRAWN: MM
CHECKED: MM
SHEET NO. 05 of 22

SUBDIVISION & SITE PLAN

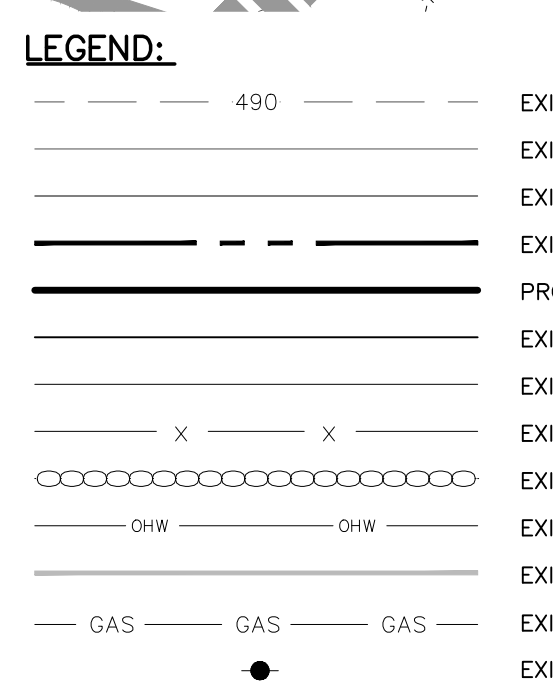
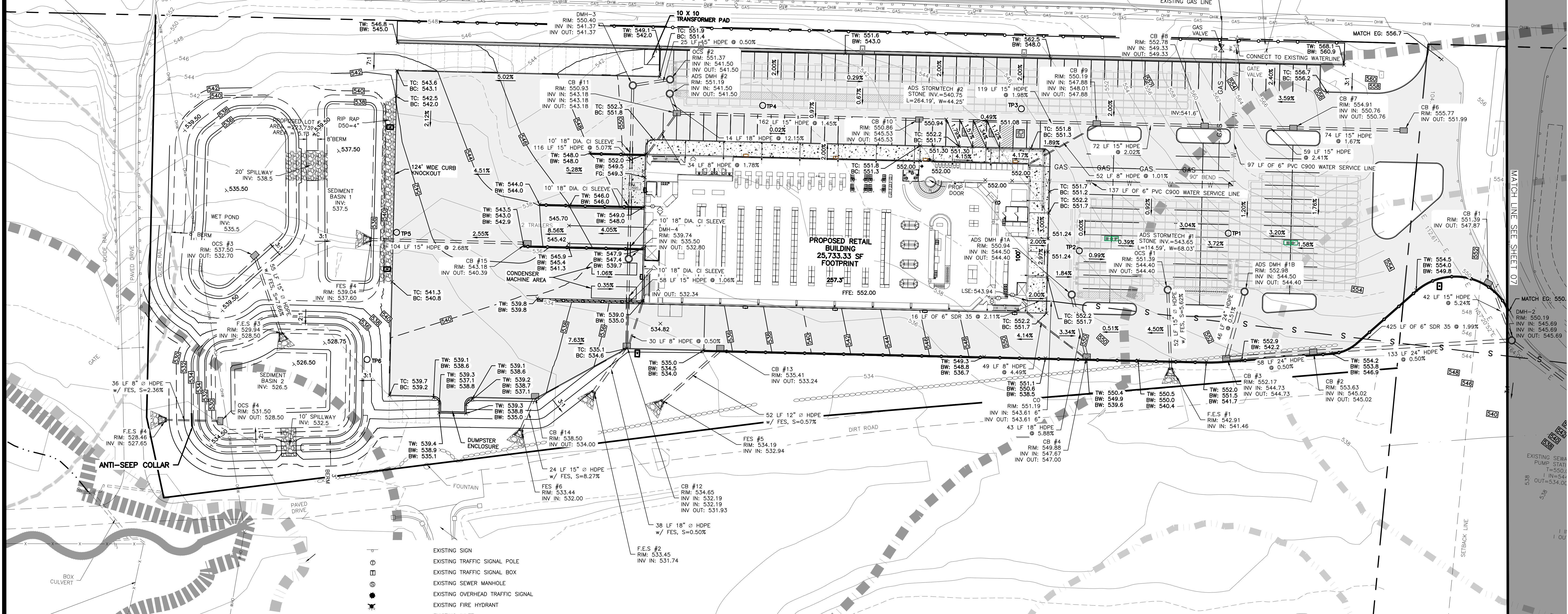
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SUBDIVISION & SITE PLAN
SCALE: 1"=60'

N.Y.S. ROUTE NO. 208



- EXISTING SIGN
- EXISTING TRAFFIC SIGNAL POLE
- EXISTING TRAFFIC SIGNAL BOX
- EXISTING SEWER MANHOLE
- EXISTING OVERHEAD TRAFFIC SIGNAL
- EXISTING FIRE HYDRANT
- EXISTING INLET
- EXISTING WATER VALVE
- EXISTING GAS VALVE
- EXISTING ELECTRIC METER
- EXISTING GAS METER
- EXISTING STEEL AND CONCRETE BOLLAR
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- SCENIC GATEWAYS OVERLAY
- SURFACE WATER OVERLAY
- RIDGELINE OVERLAY/SIGNIFICANT BIOLOGICAL OVERLAY
- STREAM AND POND AREA
- PROPOSED SETBACK
- PROPOSED BUILDING
- PROPOSED EDGE OF PAVEMENT
- PROPOSED 2" SDR21 SEWAGE FORCEMAIN
- PROPOSED 5' DIA. SEWAGE PUMP STATION
- PROPOSED 6" PVC C900 WATER SERVICE LINE
- PROPOSED GUIDERAIL
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- TEST PIT

GRADING & UTILITY PLAN 01
SCALE: 1"=30'

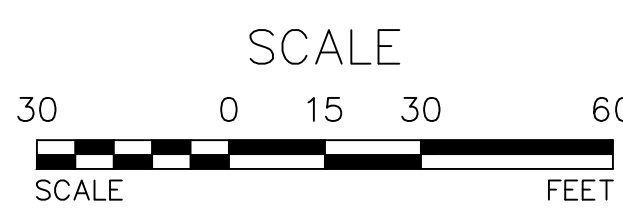
STORMWATER SOIL TESTING:

PERFORMED BY ARDEN CONSULTING ENGINEERS, PLLC ON 08/24/2022

PIT NO.	DEPTH	DESCRIPTION	PIT NO.	DEPTH	DESCRIPTION
TP1	0-8" 8"-32" 32"-84"	TOPSOIL LOAM LOAM WITH SMALL COBBLE NO WATER NO LEDGE ROOT @40" NO MOTTLING	TP4	0-8" 8"-44" 44"-84"	TOPSOIL LOAM LOAM WITH SMALL COBBLE NO WATER NO LEDGE ROOT @40" NO MOTTLING
TP2	0-8" 8"-44" 44"-84"	TOPSOIL LOAM LOAM WITH SMALL COBBLE NO WATER NO LEDGE ROOT @44" NO MOTTLING	TP5	0-8" 8"-54" 54"-84"	TOPSOIL LOAM LOAM WITH GRAY DENSE CLAY WATER @4.5 FT NO LEDGE ROOT @40" MOTTLING @4.5 FT
TP3	0-8" 8"-50" 50"-84"	TOPSOIL LOAM LOAM WITH SMALL COBBLE NO WATER NO LEDGE ROOT @44" NO MOTTLING	TP6	0-8" 8"-32" 32"-84"	TOPSOIL LOAM LOAM WITH SMALL COBBLE NO WATER NO LEDGE ROOT @40" NO MOTTLING

TREE CLEARING NOTE:

NO TREE REMOVAL SHALL OCCUR FROM APRIL 1 TO OCTOBER 31 TO MITIGATE POTENTIAL IMPACTS TO INDIANA & NORTHERN LONG-EARED BATS.



REV.	BY	DATE	DESCRIPTION
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1	MM	8-15-22	PREPARATION OF PRELIMINARY PLANS

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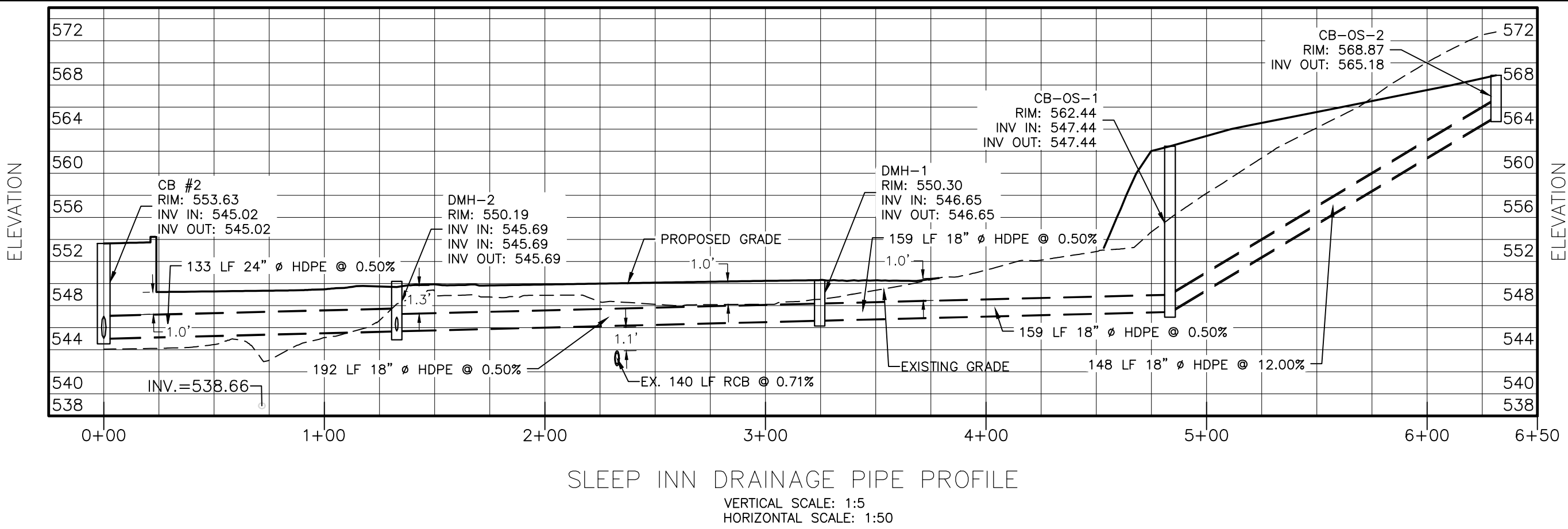
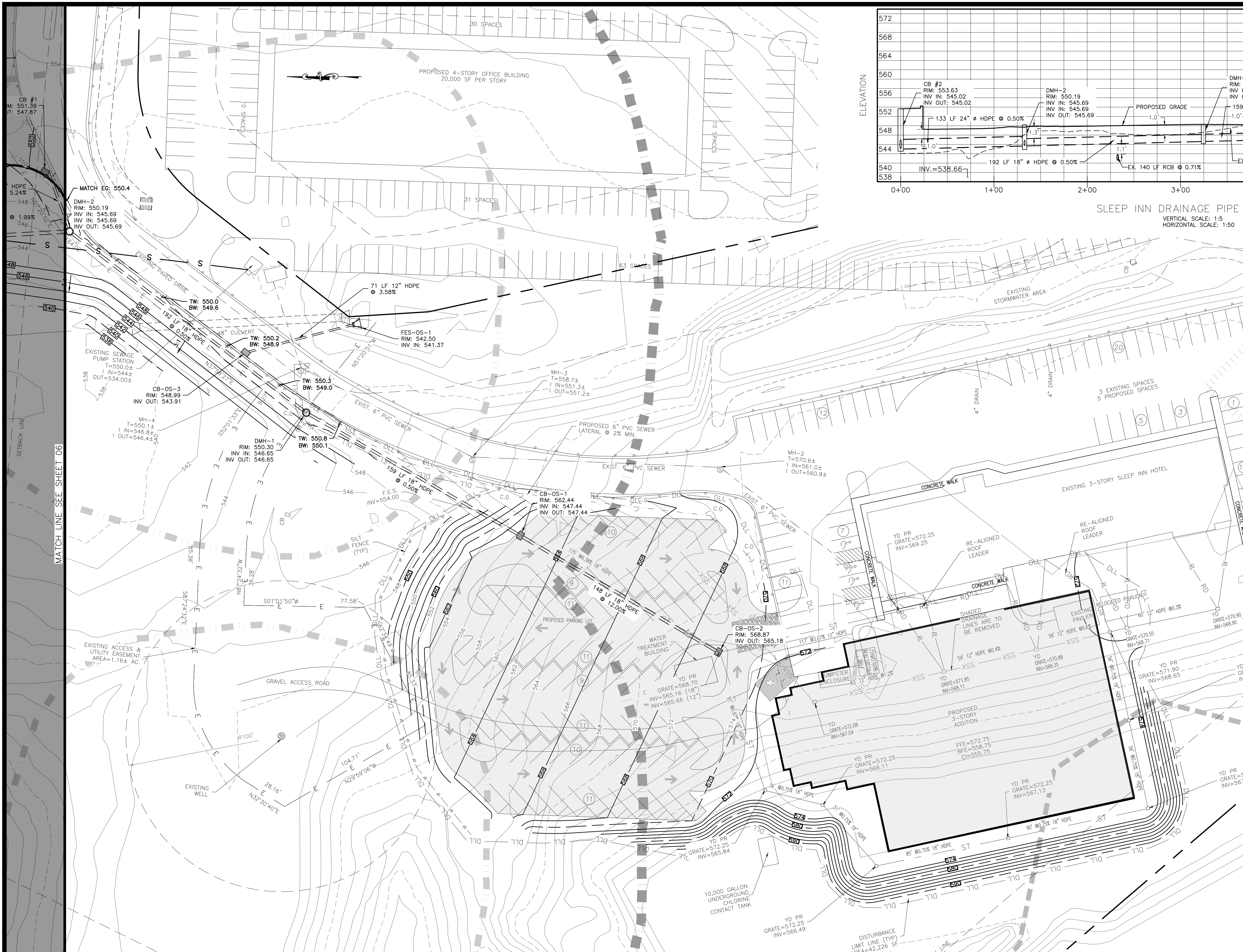
AMENDED SITE PLAN & SUBDIVISION FOR
BAILIE LANE ESTATES LLC
VILLAGE OF SOUTH BLOOMING GROVE
ORANGE COUNTY, NEW YORK

JOB#: 22-013
SCALE: AS NOTED
DATE: 6/28/22
DRAWN: MM
CHECKED: MM
SHEET NO. 06 of 22

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LEGEND:

- 490 --- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING EDGE OF PAVEMENT
- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- EXISTING ADJACENT PROPERTY LINE
- EXISTING BUILDING LINE
- EXISTING FENCE
- EXISTING STONE WALL
- EXISTING OVERHEAD LINE
- EXISTING WHITE LINE
- EXISTING GAS LINE
- EXISTING POLE
- EXISTING SIGN
- EXISTING TRAFFIC SIGNAL POLE
- EXISTING TRAFFIC SIGNAL BOX
- EXISTING SEWER MANHOLE
- EXISTING OVERHEAD TRAFFIC SIGNAL
- EXISTING FIRE HYDRANT
- EXISTING INLET
- EXISTING WATER VALVE
- EXISTING GAS VALVE
- EXISTING ELECTRIC METER
- EXISTING GAS METER
- EXISTING STEEL AND CONCRETE BOLLAR
- EXISTING PROPERTY CORNER
- EXISTING MISC. STEEL ACCESS LIDS & MANHOLES
- EXISTING IRON PIPE MARKER
- 100' SURFACE WATER OVERLAY BUFFER
- SCENIC GATEWAYS OVERLAY
- SURFACE WATER OVERLAY
- RIDGELINE OVERLAY/SIGNIFICANT BIOLOGICAL OVERLAY
- STREAM AND POND AREA
- PROPOSED SETBACK
- PROPOSED BUILDING
- PROPOSED EDGE OF PAVEMENT
- PROPOSED 2" SDR21 SEWAGE FORCEMAIN
- PROPOSED 5' DIA. SEWAGE PUMP STATION
- PROPOSED 6" PVC C900 WATER SERVICE LINE
- PROPOSED GUIDERAIL
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- TEST PIT

REV.	BY	DATE	DESCRIPTION
12	MM	11-4-24	SUBDIVISION PLAN PREPARATION
11	MM	9-27-24	SEDIMENT BASIN REVISION
10	MM	3-11-24	FINAL ADS DESIGN & GAS UTILITY LOCATION ADDED
9	MM	3-4-24	FINAL ADS SHOP DRAWING DESIGN ADDED
8	MM	2-14-24	SW SHOP DWG REVISIONS & LIGHTING PLAN UPDATE
7	MM	2-5-24	FINAL PLANS COORDINATED WITH SHOP DRAWING APPROVAL
6	MM	2-3-24	FINAL PLANS FOR CONSTRUCTION
5	MM	1-18-24	MINOR DRAINAGE & SITE PLAN REVISIONS FOR CONSTRUCTION
4	MM	1-15-24	SW DETAIL & DRAINAGE REVISIONS
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**AMENDED SITE PLAN & SUBDIVISION FOR
BAILIE LANE ESTATES LLC
VILLAGE OF SOUTH BLOOMING GROVE
ORANGE COUNTY, NEW YORK**

GRADING & UTILITY PLAN 02

JOB#: 22-013
SCALE: AS NOTED
DATE: 6/28/22
DRAWN: MM
CHECKED: MM
SHEET NO. 07 of 23

MICHAEL A. MORGANTE, P.E.
LIC. NO. 78577

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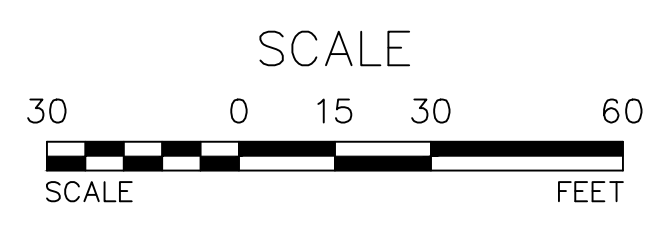
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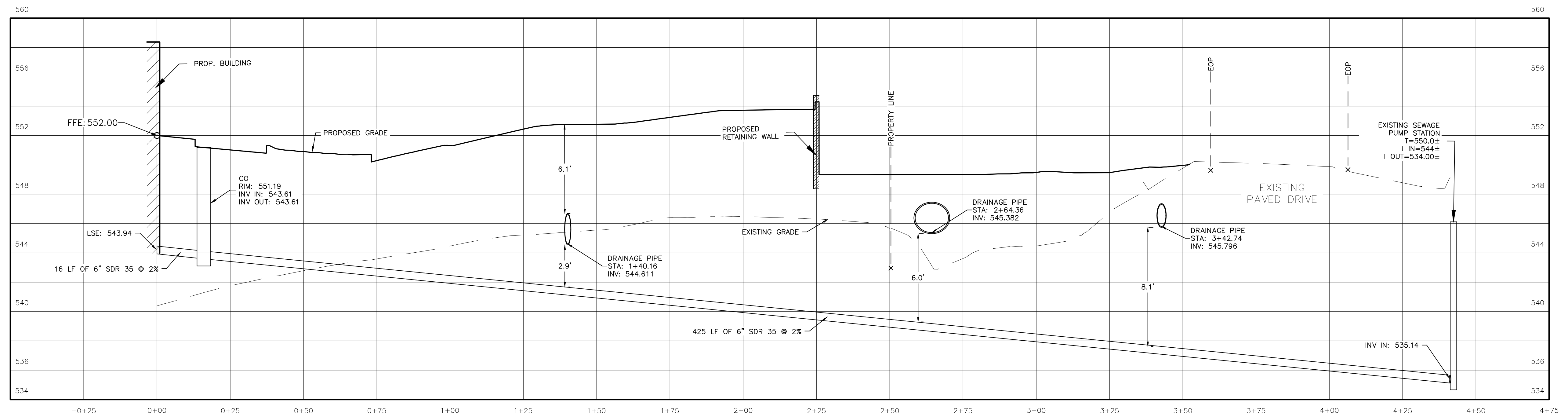
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TREE CLEARING NOTE:
NO TREE REMOVAL SHALL OCCUR FROM APRIL 1 TO OCTOBER 31 TO MITIGATE POTENTIAL IMPACTS TO INDIANA & NORTHERN LONG-EARED BATS.

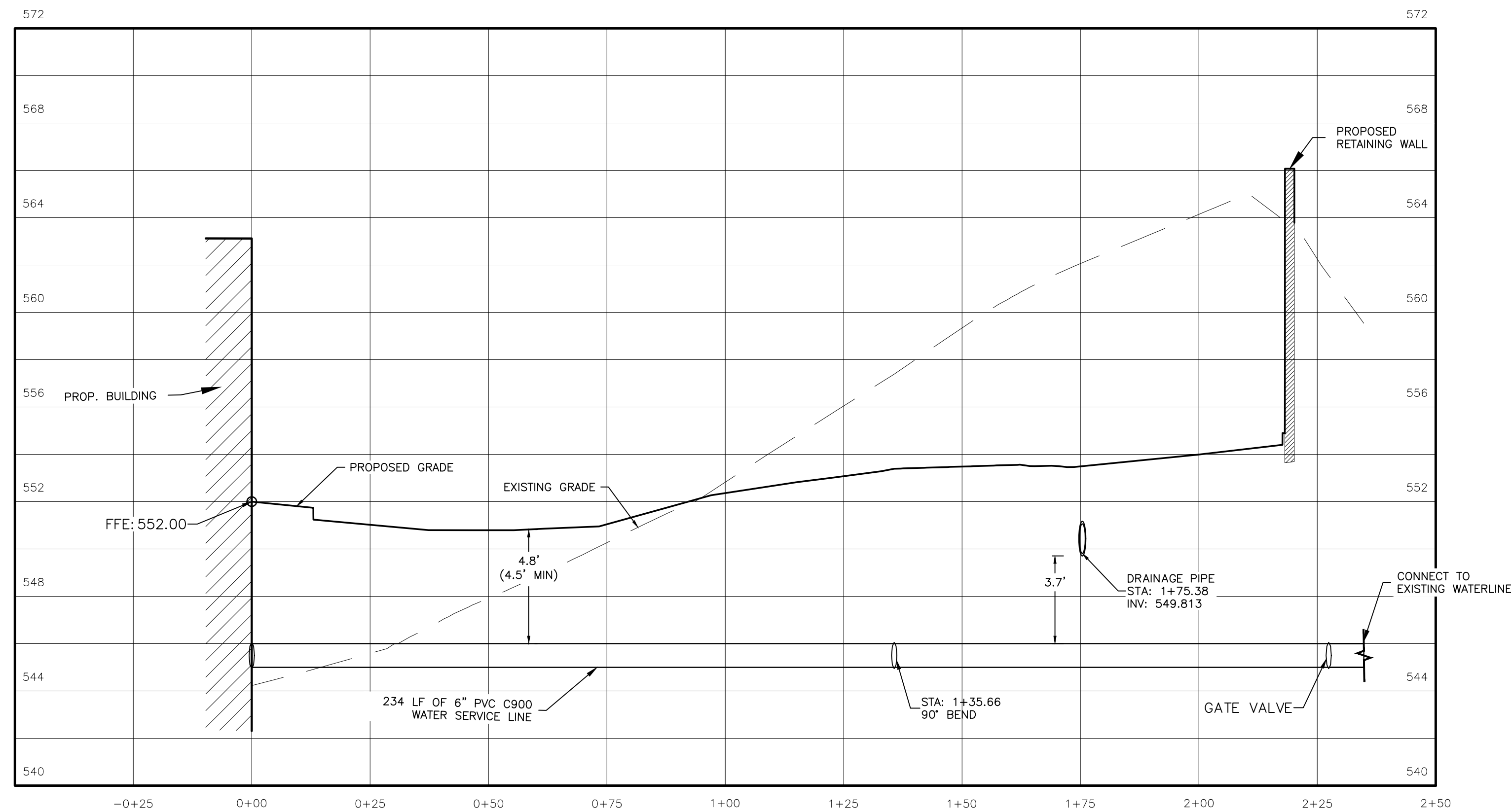
NOTE:
THE PROPOSED 3-STORY ADDITION & ASSOCIATED PARKING LOT & UTILITY DESIGN WAS TAKEN FROM A PLAN PREPARED BY JOHN PETROCCIONE, P.E.

GRADING & UTILITY PLAN 02
SCALE: 1"=30'





SEWER LATERAL PROFILE
 HORIZONTAL SCALE: 1"=20'
 VERTICAL SCALE: 1"=4'



WATER SERVICE LINE PROFILE
 HORIZONTAL SCALE: 1"=20'
 VERTICAL SCALE: 1"=4'

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BAILIE LANE ESTATES LLC
 VILLAGE OF SOUTH BLOOMING GROVE
 ORANGE COUNTY, NEW YORK

SEWER & WATER PROFILE

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BEST MANAGEMENT PRACTICES FOR SITE FACILITY MAINTENANCE

THE OWNER WILL BE RESPONSIBLE FOR THE MAINTENANCE AND OPERATION OF ALL SITE RELATED FACILITIES, INCLUDING THE STORM WATER SEDIMENT AND DETENTION BASINS AND THE FOLLOWING MEASURES AND/OR STRUCTURES, AS APPLICABLE AND SHOWN ON THE PLANS:

WATER QUALITY INLETS

1. WATER QUALITY INLETS SHALL BE CLEANED OUT AT LEAST TWICE A YEAR TO REMOVE POLLUTANTS. REMOVED MATERIAL SHOULD BE TAKEN TO A TREATMENT PLANT OR APPROVED LANDFILL FOR DISPOSAL.
2. STORM WATER INLETS THROUGHOUT THE SITE SHALL BE INSPECTED ANNUALLY FOR ACCUMULATED SEDIMENT OR OTHER PROBLEMS AND REPAIRED AS NECESSARY.

PARKING AND ROADWAY PAVEMENTS

1. PARKING AREA AND ROADWAY PAVEMENTS SHALL BE SWEEP ON A REGULAR BASIS TO REMOVE ACCUMULATED SEDIMENT. COLLECTED SEDIMENT SHALL BE REMOVED TO AN APPROVED DISPOSAL SITE WHICH WILL NOT ALLOW THE RE-ENTRANCE OF SILT INTO THE STORM WATER DRAINAGE SYSTEM.

VEGETATIVE STABILIZATION

1. ALL VEGETATIVE PLANTING ON AREAS WHICH HAVE BEEN DISTURBED AND ARE FINISH GRADED SHALL BE INSPECTED AFTER EACH RAIN EVENT. PLANTING (OR SEEDING) SHALL BE MAINTAINED IN A VIABLE CONDITION TO STABILIZE THE SOIL AND TO PREVENT SOIL EROSION. RESTORE ALL SITE PLANTING AND/OR SEEDING WHICH HAS BEEN DAMAGED TO A VIABLE CONDITION.
2. IF VEGETATIVE STABILIZATION HAS BEEN DAMAGED FROM STORM WATER EROSION, CORRECT UPSTREAM CONDITIONS WHICH CAUSED THE EROSION. CHECK DAMS MAY BE REQUIRED IN DRAINAGE WAYS, AND STONE OUTFALL APRONS MAY BE REQUIRED TO BE REPAIRED AT STORM WATER OUTLETS.

CONSTRUCTION ACTIVITY

1. CONSTRUCTION ACTIVITIES WILL OCCUR DURING WEEKDAYS COMMENCING AT 7:00 AM AND TERMINATING AT 6:00 PM

EROSION AND SILTATION CONTROL NOTES:

1. GRADED AREAS – UPPER ELEVATIONS: PROVIDE TEMPORARY DRAINAGE SWALES, 1% GRADE MIN., TO DIRECT RUNOFF AWAY FROM CONSTRUCTION SITES. DISCHARGE AREAS AND ENERGY DISPERSION REQUIREMENTS TO BE ACCEPTABLE TO OWNER.
2. GRADED AREAS – LOWER ELEVATIONS: PROVIDE DRAINAGE SWALES, 1% MIN. GRADES, WITH STAKED AND SECURED HAY BALE BERMS TO PREVENT DOWN STREAM AND DOWN GRADIENT SILTATION.

SEDIMENT & EROSION CONTROL NOTES & CONSTRUCTION SEQUENCING

1. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCES FOR ALL ROAD AND DRIVE ENTRANCES. STREETS SHALL BE CLEANED DAILY.
2. INSTALL SEDIMENT BARRIERS/SWALES/DITCHES/DIKES AT DOWN SLOPE AREAS FROM ALL PROPOSED GRADING OPERATIONS, AND INSTALL OTHER SEDIMENTATION AND EROSION CONTROL STRUCTURES OR MEASURES AS SHOWN ON THE DRAWINGS.
3. LAND DISTURBANCE SHALL BE LIMITED TO ONLY THAT AREA NECESSARY FOR DEVELOPMENT. NO MORE THAN FIVE (5) ACRES OF UNPROTECTED SOIL SHALL BE DISTURBED AT ONE TIME. PREVIOUS EARTHWORK SHALL BE STABILIZED AS SPECIFIED BEFORE ADDITIONAL AREA IS EXPOSED. EXISTING DWELLINGS AND STRUCTURES SHALL BE REMOVED PRIOR TO ANY SITE CLEARING AND SOIL DISTURBANCE.
4. CLEAR EXISTING TREES AND VEGETATION FROM AREAS TO BE EXCAVATED OR FILLED, THEN STRIP AND STOCKPILE TOPSOIL FROM ALL AREAS TO BE DISTURBED. SEED STOCKPILED TOPSOIL WITH TEMPORARY RYEGRASS COVER AS SPECIFIED BELOW (SEE NOTE 8), AND ERECT A SILT FENCE AROUND THE STOCKPILE.
5. PROTECT ALL TREES WHICH ARE TO REMAIN AND WHICH ARE IN OR NEAR CONSTRUCTION AREAS.
6. PERFORM NECESSARY EXCAVATION OR FILL OPERATIONS TO BRING SITE TO DESIRED SUBGRADE.
7. INSTALL SEDIMENT BARRIERS AROUND ALL STORM DRAIN INLETS, OR MODIFY SEDIMENT CONTROL MEASURES INSTALLED IN #2 ABOVE AND MAINTAIN UNTIL ALL DISTURBED AREAS ARE STABILIZED WITH VEGETATION AND ALL PAVEMENTS ARE PAVED WITH A BASE COURSE.
8. TEMPORARILY SEED ALL DISTURBED AREAS WHICH WILL REMAIN UNDISTURBED FOR A PERIOD OF 15 DAYS OR MORE AND WHICH WILL NOT BE UNDER CONSTRUCTION WITHIN 30 DAYS IN ACCORDANCE WITH SPECIFICATION FOR VEGETATIVE ESTABLISHMENT.
9. IF CONSTRUCTION IS SUSPENDED OR COMPLETED, ALL DISTURBED AREAS SHALL BE SEED AND MULCHED IMMEDIATELY. ALL SLOPES STEEPER THAN ONE ON THREE (V/H) AND PERIMETER TRENCHES AND TRAP EMBANKMENTS SHALL, ON COMPLETION, BE IMMEDIATELY STABILIZED WITH TEMPORARY SEEDING AND MULCHING.
10. AFTER COMPLETION OF SITE CONSTRUCTION, FINE GRADE AND SPREAD TOPSOIL ON ALL LAWN AREAS AND SEED WITH PERMANENT LAWN MIX AS DISCUSSED ON THE SPECIFICATIONS FOR VEGETATIVE ESTABLISHMENT ON THIS SHEET.
11. DURING THE PROGRESS OF CONSTRUCTION, MAINTAIN ALL SEDIMENT TRAPS, BARRIERS, AND FILTERS AS NECESSARY TO PREVENT THEIR BEING CLOGGED UP WITH SEDIMENT.
12. AFTER PAVEMENTS ARE INSTALLED AND PERMANENT VEGETATIVE COVER AND PLANTINGS ARE ESTABLISHED, REMOVE SEDIMENT BARRIERS AND SEED THOSE DISTURBED AREAS.
13. MAINTAIN ALL SEED AND PLANTED AREAS TO INSURE A VIABLE STABILIZED VEGETATIVE COVER.
14. STRUCTURAL MEASURES MUST BE MAINTAINED TO BE EFFECTIVE. IN GENERAL, THESE MEASURES MUST BE PERIODICALLY INSPECTED TO INSURE STRUCTURAL INTEGRITY, TO DETECT VANDALISM DAMAGE, AND FOR CLEANING AND REPAIR WHENEVER NECESSARY.
15. DURING CONSTRUCTION, ALL STRUCTURES SHOULD BE INSPECTED WEEKLY AND AFTER EVERY RAIN. REMOVE ACCUMULATED SEDIMENT AND STOCKPILE AND STABILIZE IN AN AREA NOT SUBJECT TO FURTHER EROSION.
16. AFTER CONSTRUCTION IS COMPLETED, PERMANENT SEDIMENT OR EROSION CONTROL STRUCTURES SHOULD BE INSPECTED AT LEAST SEMI-ANNUALLY AND AFTER EVERY RAIN.

SPECIFICATIONS FOR VEGETATIVE ESTABLISHMENT:

1. PERMANENT SEEDING:
 - A. SEEDBED PREPARATION: AREA TO BE SEED SHALL BE LOOSE AND FRIABLE TO A DEPTH OF AT LEAST 3 INCHES. THE TOP LAYER SHALL BE LOOSENEED BY RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING OCCURS. FOR SITES LESS THAN 5 ACRES, APPLY 100 POUNDS OF DOLOMITIC LIMESTONE AND 21 POUNDS OF 10-20-20 FERTILIZER PER 1,000 SF. HARROW OR DISK LIME AND FERTILIZER INTO THE SOIL TO A DEPTH OF AT LEAST 3 INCHES ON SLOPES FLATTER THAN 3:1.
 - B. SEEDING: APPLY 5-6 POUNDS PER 1,000 SF OF SEED MIX BETWEEN FEBRUARY 1 AND MAY 15 OR BETWEEN AUGUST 15 AND OCTOBER 31. APPLY SEED UNIFORMLY ON A MOIST FIRM SEEDBED WITH A CYCLONE SEEDER DRILL, CULTIPACKR SEEDER OR HYDROSEEDER (SLURRY INCLUDES SEEDS AND FERTILIZER, RECOMMENDED ON STEEP SLOPES ONLY). MAXIMUM SEED DEPTH SHOULD BE 1/4 INCH IN CLAYEY SOILS AND 1/2 INCH IN SANDY SOILS WHEN USING OTHER THAN THE HYDROSEEDER METHOD. IRRIGATE IF SOIL MOISTURE IS DEFICIENT TO SUPPORT ADEQUATE GROWTH UNTIL VEGETATION IS FIRMLY ESTABLISHED. SELECT SEED MIXTURES FROM SECTION 3, NYS GUIDELINES FOR URBAN EROSION & SEDIMENT CONTROL.
 - C. MULCHING: MULCH SHALL BE APPLIED TO ALL SEEDED AREAS IMMEDIATELY AFTER SEEDING. DURING THE TIME PERIODS WHEN SEEDING IS NOT PERMITTED, MULCH SHALL BE APPLIED IMMEDIATELY AFTER GRADING. MULCH SHALL BE UNROTTED, UNCHOPPED, UNCHOPPED, SMALL GRAIN STRAW APPLIED AT A RATE OF 2 TONS PER ACRE OR 90 POUNDS PER 1,000 SQUARE FEET (2 BALES). IF A MULCH ANCHORING TOOL IS USED, APPLY 2.5 TONS PER ACRE. MULCH MATERIALS SHALL BE RELATIVELY FREE OF ALL KINDS OF WEEDS AND SHALL BE COMPLETELY FREE OF PROHIBITED NOXIOUS WEEDS. SPREAD MULCH UNIFORMLY, MECHANICALLY, OR BY HAND TO A DEPTH OF 1-2 INCHES.
 - D. SECURING STRAW MULCH: STRAW MULCH SHALL BE SECURED IMMEDIATELY FOLLOWING MULCH APPLICATIONS TO MINIMIZE MOVEMENT OF WIND OR WATER. THE FOLLOWING METHODS ARE PERMITTED:
 - i. USE A MULCH ANCHORING TOOL WHICH IS DESIGNED TO PUNCH AND ANCHOR FABRIC TYPE MULCH INTO THE SOIL SURFACE TO A MINIMUM DEPTH OF 2 INCHES. THIS IS THE MOST EFFECTIVE METHOD FOR SECURING MULCH. HOWEVER, IT IS LIMITED TO RELATIVELY FLAT AREAS WHERE EQUIPMENT CAN OPERATE SAFELY.
 - ii. WOOD CELLULOSE FIBER MAY BE USED FOR ANCHORING STRAW. APPLY THE FIBER BINDER AT A NET DRY WEIGHT OF 750 POUNDS PER ACRE. IF MIXED WITH WATER, USE 50 POUNDS OF WOOD CELLULOSE FIBER PER 100 GALLONS OF WATER.
 - iii. LIQUID BINDERS MAY BE USED AND APPLIED HEAVIER AT THE EDGES WHERE WIND CATCHES MULCH, SUCH AS IN VALLEYS AND ON CRESTS OF SLOPES. THE REMAINDER OF THE AREA SHOULD APPEAR UNIFORM AFTER BINDER APPLICATION.
 - iv. LIGHTWEIGHT NETTING, MAY BE USED TO SECURE MULCH. THE NETTING WILL BE STAPLED TO THE GROUND ACCORDING TO MANUFACTURERS' RECOMMENDATIONS.
2. TEMPORARY SEEDING:
 - LIME: 100 POUNDS OF DOLOMITIC LIMESTONE PER 1,000 SF
 - FERTILIZER: 15 POUNDS OF 10-10-10 PER 1,000 SF
 - SEED: PERENNIAL RYE-0.92 POUNDS PER 1,000 SF
3. FILL:
 - NO FILLS MAY BE PLACED ON FROZEN GROUND. ALL FILL TO BE PLACED IN APPROXIMATELY HORIZONTAL LAYERS, EACH LAYER HAVING A LOOSE THICKNESS OF NOT MORE THAN 8 INCHES. ALL FILL IN ROADWAYS AND PARKING AREAS IS TO BE CLASSIFIED TYPE 2 COMPACTED TO 90% DENSITY. COMPACTION TO BE DETERMINED BY ASTM D-1557-66T (MODIFIED PROCTOR). ANY FILL WITHIN THE BUILDING AREA IS TO BE COMPACTED TO A MINIMUM OF 95% AS DETERMINED BY METHODS PREVIOUSLY MENTIONED. FILLS FOR POND EMBANKMENTS SHALL BE COMPACTED AS PER THE PROJECT ENGINEER'S SPECIFICATIONS. ALL OTHER FILLS SHALL BE COMPACTED SUFFICIENTLY SO AS TO BE STABLE AND PREVENT EROSION AND SLIPPAE.
4. PERMANENT SOD:
 - INSTALLATION OF SOD SHOULD FOLLOW THE PERMANENT SEEDING DATES. PERMANENT SOD IS TO BE STATE APPROVED SOD; LIME AND FERTILIZER PER PERMANENT SEEDING SPECIFICATIONS AND LIGHTLY IRRIGATE SOIL PRIOR TO LAYING SOD. SOD IS TO BE LAID ON THE CONTOUR WITH ALL ENDS TIGHTLY ABUTTING. JOINTS ARE TO BE STAGGERED BETWEEN ROWS. WATER AND ROLL OR TAMP SOD TO INSURE POSITIVE ROOT CONTACT WITH THE SOIL. ALL SLOPES STEEPER THAN 3:1, AS SHOWN, ARE TO BE PERMANENTLY SODDED OR PROTECTED WITH APPROVED EROSION CONTROL NETTING. ADDITIONAL WATERING FOR ESTABLISHMENT MAY BE REQUIRED. SOD IS NOT TO BE APPLIED ON FROZEN GROUND. SOD SHALL NOT BE HARVESTED OR TRANSPLANTED WHEN MOISTURE CONTENT (DRY OR WET) AND/OR EXTREME TEMPERATURE MAY ADVERSELY AFFECT ITS SURVIVAL. IN THE ABSENCE OF ADEQUATE RAINFALL, IRRIGATION SHOULD BE PERFORMED TO INSURE ESTABLISHED SOD.

SLOPE STABILIZATION, SEEDING METHOD & MULCHING

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

SLOPES SHALL BE HYDROSEEDED WITH THE MIXTURES AND RATES INDICATED IN THE PERMANENT SEEDING MIXTURE SCHEDULE. STRAW OR HAY MULCH SHALL BE APPLIED AT A RATE OF 2,000 LBS./ACRE. STRAW OR HAY MULCH SHALL BE ANCHORED WITH BioD-Mesh60 NETTING AS MANUFACTURED BY ROLANKA INTERNATIONAL OR APPROVED EQUIVALENT. NETTING TO BE INSTALLED PER MANUFACTURER SPECIFICATIONS.

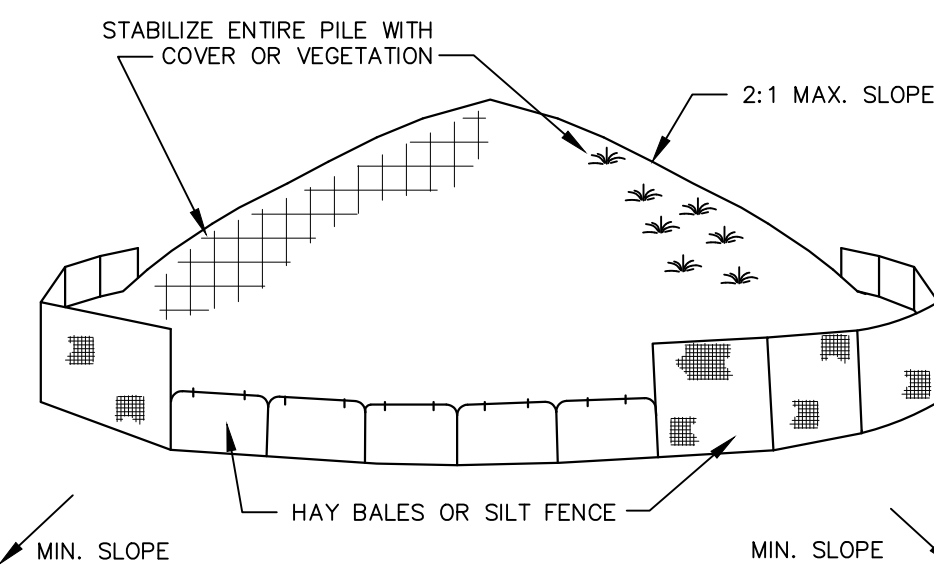
GENTLE SLOPE AND FLAT AREAS

AREA SHALL BE SEED BY HYDROSEEDING OR BROADCASTING WITH THE MIXTURES AND RATES INDICATED ON THE PERMANENT SEEDING MIXTURE SCHEDULE. HYDROSEEDED AREAS SHALL BE MULCHED WITH A WOOD FIBER MULCH APPLIED AT A RATE OF 500 LBS./ACRE. BROADCAST AREAS SHALL BE MULCHED WITH HAY OR STRAW AT A RATE OF 2,000 LBS./ACRE. AREAS SEED BY BROADCASTING SHALL BE LIGHTLY RAKED AND PACED PRIOR TO PLACING MULCH.

AREAS REMAINING DISTURBED FOR 20 DAYS OR MORE SHALL BE STABILIZED AS FOLLOWS:

SCARIFY SOILS IF COMPACTED, LIME TO pH OF 6.0 IF REQUIRED, FERTILIZE WITH 600 LBS./ACRE. 5-10-10 FERTILIZER IF REQUIRED. SEED WITH SPECIES AND RATE SHOWN BELOW. MULCH WITH HAY OR STRAW AT A RATE OF 2,000 LBS./ACRE. ANCHOR MULCH WITH NETTING OF WOOD FIBER OR JUTE IF STEEP SLOPE OR HIGH POTENTIAL FOR EROSION.

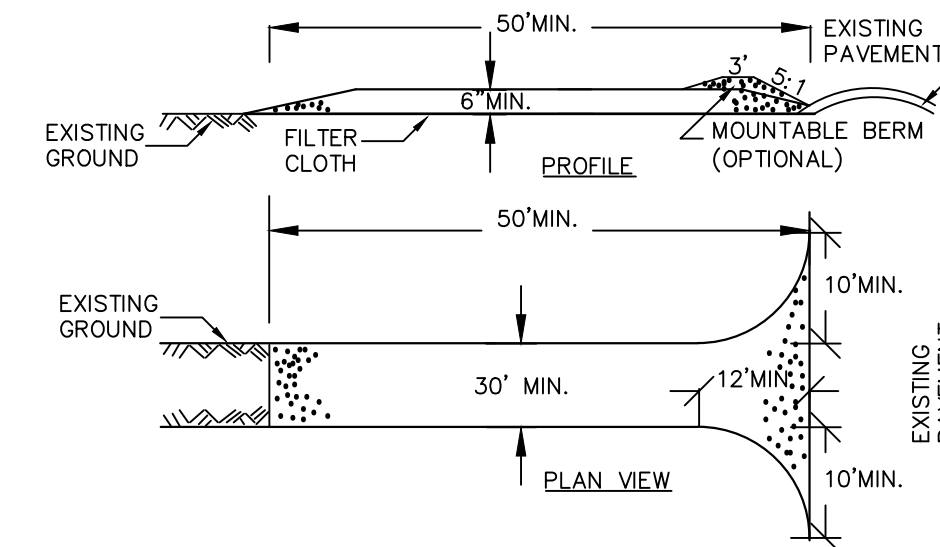
SPECIES	APPLICATION RATE
RYEGRASS (ANNUAL OR PERENNIAL) (USE WINTER RYE IF SEEDING IN OCT./NOV.)	30 LBS./ACRE (0.7 LBS./1,000 SF)



- INSTALLATION NOTES:**
1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE
 2. MAXIMUM SLOPE OF STOCKPILES SHALL BE 2:1.
 3. UPON COMPLETION OF SOIL STOCKPILING EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING OR HAY BALES, THEN STABILIZED WITH VEGETATION OR COVERED.
 4. SEE SPECIFICATIONS FOR INSTALLATION OF SILT FENCE.

SOIL STOCKPILE DETAIL

NOT TO SCALE



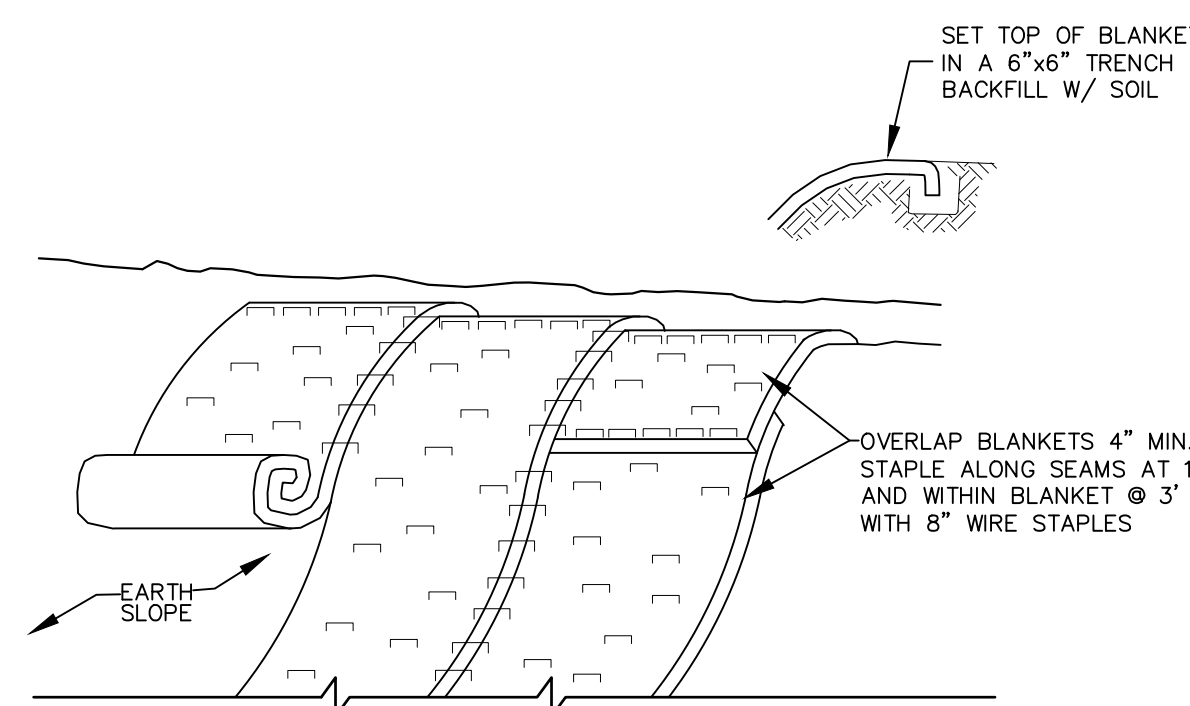
CONSTRUCTION SPECIFICATIONS

1. STONE SIZE – USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH – NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
3. THICKNESS – NOT LESS THAN SIX (6) INCHES.
4. 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.
5. FILTER CLOTH – WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. 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.
7. 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.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE

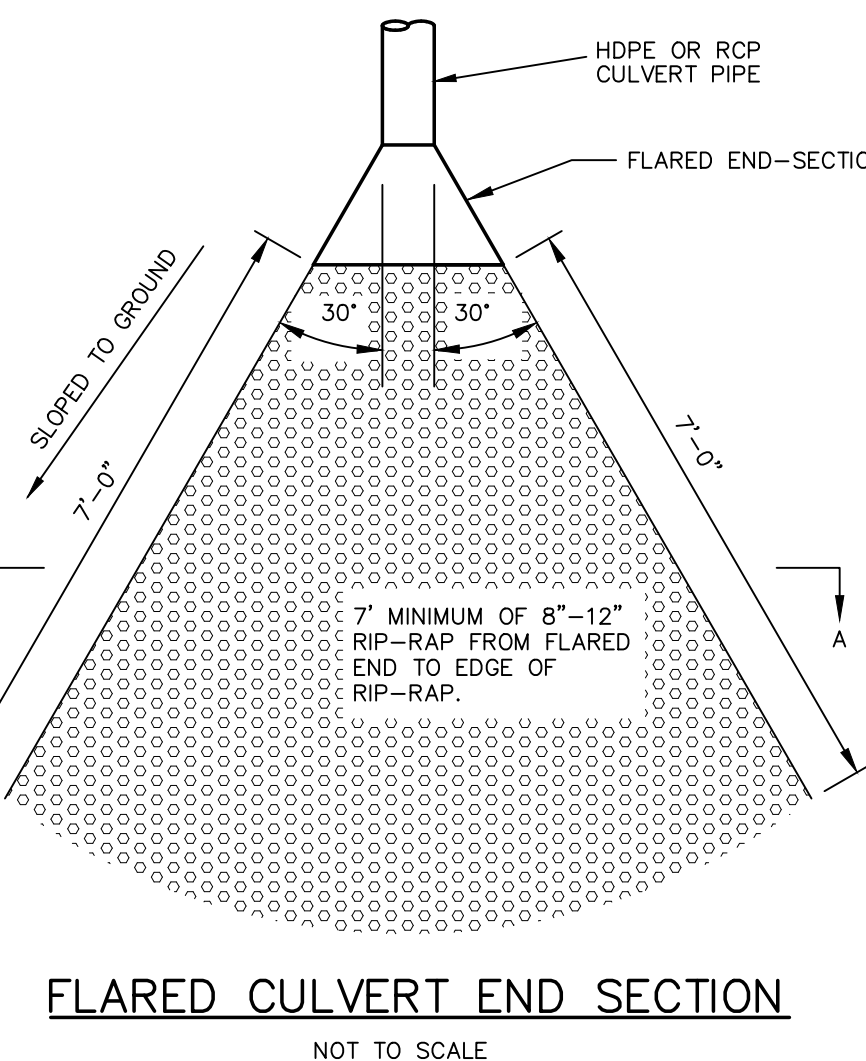
FOR CONSTRUCTION SPECIFICATIONS REFER TO "NY GUIDELINES FOR URBAN EROSION AND SEDIMENT CONTROL"



SLOPE STABILIZATION DETAIL

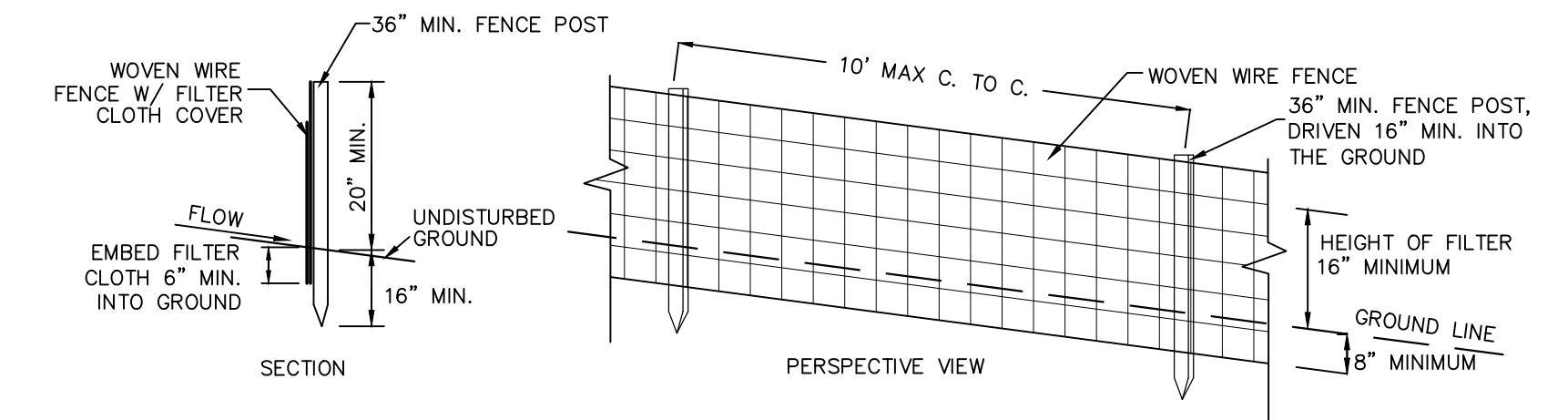
NOT TO SCALE

- NOTES:**
1. STABILIZE PREPARED EARTHEN SLOPE WITH A BIODEGRADABLE NATURAL FIBER NETTING. APPROVED TYPES ARE AS FOLLOWS:
 - C350-NORTH AMERICAN GREEN #1-800-772-2040
 - ECCOIR 9000- EASTERN PRODUCTS, INC. #1-201-234-5050
 - ERO-MAT V125C- EROSION CONTROL TECH. #1-800-245-0551
 - ALL SLOPE RESTORATION TO GET 4" TOPSOIL
 2. SEED SLOPE PRIOR TO INSTALLING EROSION CONTROL NETTING.
 3. AFTER NETTING IS INSTALLED, PLANT GROUND-COVER, TREES & FORSYTHIA THROUGH SLOTS CUT IN FABRIC.



FLARED CULVERT END SECTION

NOT TO SCALE

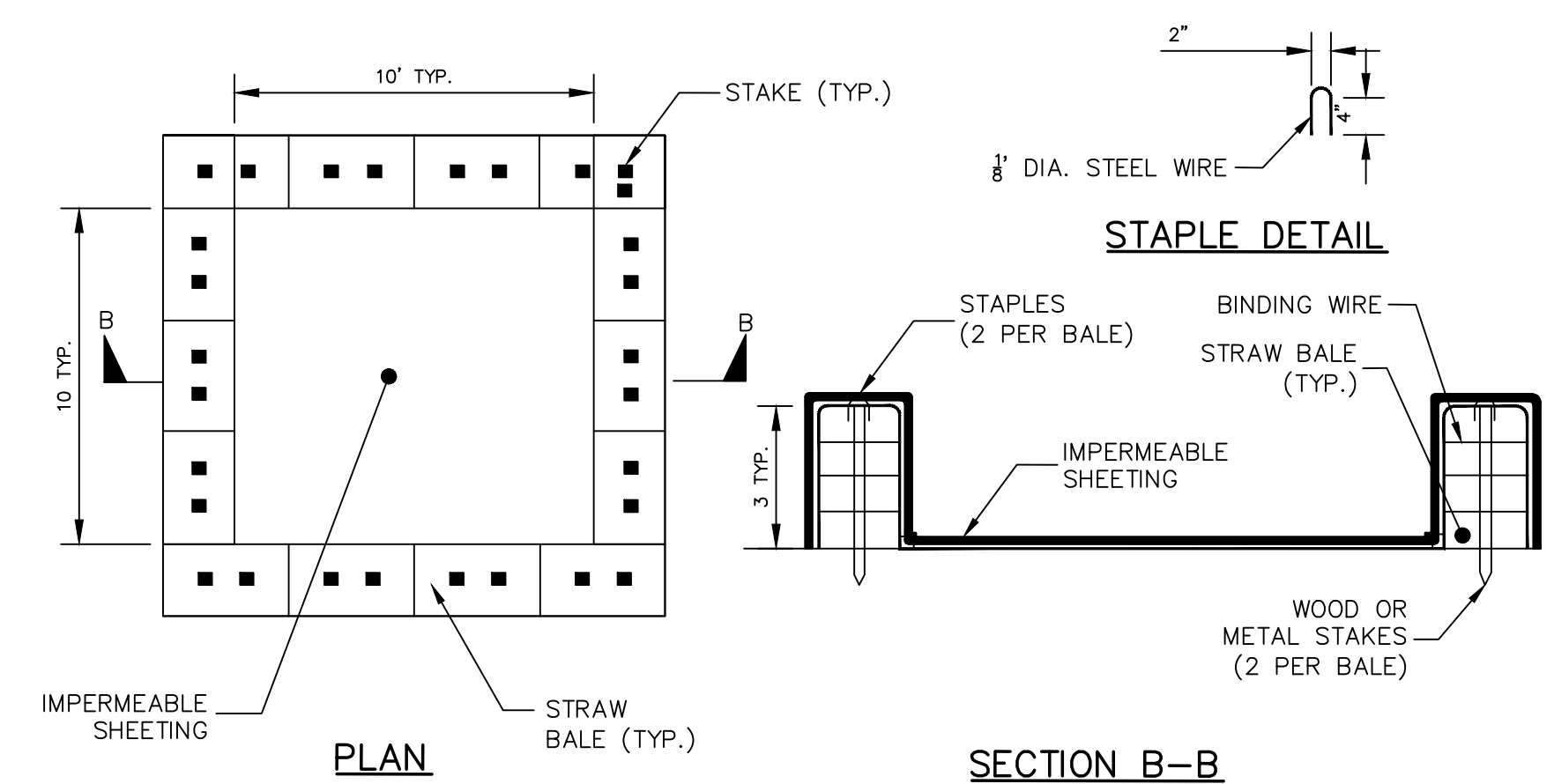


CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POST WITH WIRE TIES OR STAPLES.
 2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
 3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAP AND STAPLED BY 6" AND FOLDED.
 4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN 'BULGES' DEVELOP IN THE SILT FENCE.
- POST: STEEL EITHER 'T' OR 'U' TYPE OR 2" HARDWOOD FENCE: WOVEN WIRE, 14 1/2 GA. 6" MAX. MESH OPENING
FILTER CLOTH: FILER X MIRAFI TOOX, STABILUNKA T140N OR APPROVED EQUAL
PREFABRICATED UNIT: GEOFAB, ENVIROFENCE, OR APPROVED EQUAL.

SILT FENCE DETAIL

NOT TO SCALE



CONCRETE WASHOUT AREA WITH STRAW BALES

NOT TO SCALE

- NOTE:**
- CAN BE TWO STACKED BALES OR PARTIALLY EXCAVATED TO REACH 3 FT DEPTH

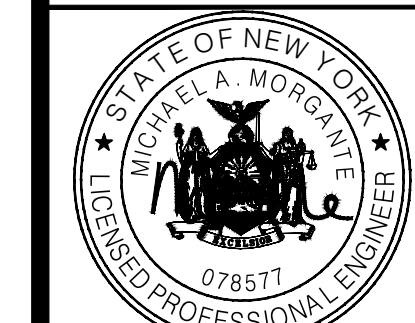
CONSTRUCTION SPECIFICATIONS

1. LOCATE WASHOUT STRUCTURE A MINIMUM OF 50 FEET AWAY FROM OPEN CHANNELS, STORM DRAIN INLETS, SENSITIVE AREAS, WETLANDS, BUFFERS AND WATER COURSES AND AWAY FROM CONSTRUCTION TRAFFIC.
2. SIZE WASHOUT STRUCTURE FOR VOLUME NECESSARY TO CONTAIN WASH WATER AND SCUDS AND MAINTAIN AT LEAST 4 INCHES OF FREEBOARD. TYPICAL DIMENSIONS ARE 10 FEET X 10 FEET X 3 FEET DEEP.
3. PREPARE SOIL BASE FREE OF ROCKS OR OTHER DEBRIS THAT MAY CAUSE TEARS OR HOLES IN THE LINER. FOR LINER, USE 10 MIL OR THICKER UV RESISTANT, IMPERMEABLE SHEETING, FREE OF HOLES AND TEARS OR OTHER DEFECTS THAT COMPROMISE IMPERMEABILITY OF THE MATERIAL.
4. PROVIDE A SIGN FOR THE WASHOUT IN CLOSE PROXIMITY TO THE FACILITY.
5. KEEP CONCRETE WASHOUT STRUCTURE WATER TIGHT. REPLACE IMPERMEABLE LINER IF DAMAGED (EG., RIPPED OR PUNCTURED). EMPTY OR REPLACE WASHOUT STRUCTURE THAT IS 75 PERCENT FULL, AND DISPOSE OF ACCUMULATED MATERIAL PROPERLY. DO NOT REUSE PLASTIC LINER. WET-VACUUM STORED LIQUIDS THAT HAVE NOT EVAPORATED AND DISPOSE OF IN AN APPROVED MANNER. PRIOR TO FORECASTED RAINSTORMS, REMOVE LIQUIDS OR COVER STRUCTURE TO PREVENT OVERFLOWS. REMOVE HARDENED SOLIDS, WHOLE OR BROKEN UP, FOR DISPOSAL OR RECYCLING. MAINTAIN RUNOFF DIVERSION AROUND EXCAVATED WASHOUT STRUCTURE UNTIL STRUCTURE IS REMOVED.

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1	MM	8-15-22	PREPARATION OF PRELIMINARY PLANS

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AMENDED SITE PLAN & SUBDIVISION FOR
BAILIE LANE ESTATES LLC
VILLAGE OF SOUTH BLOOMING GROVE
ORANGE COUNTY, NEW YORK

EROSION & SEDIMENT
CONTROL DETAILS

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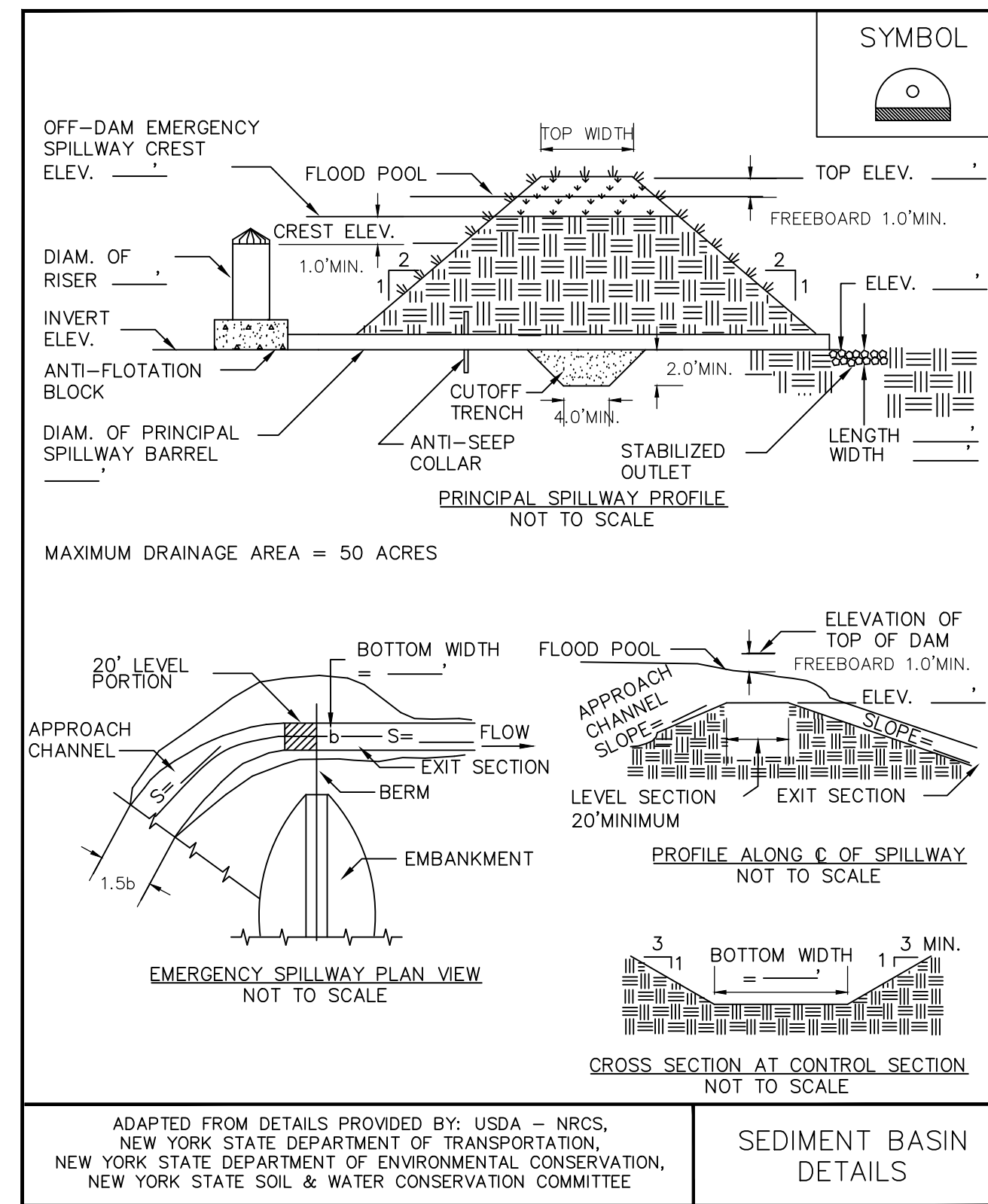
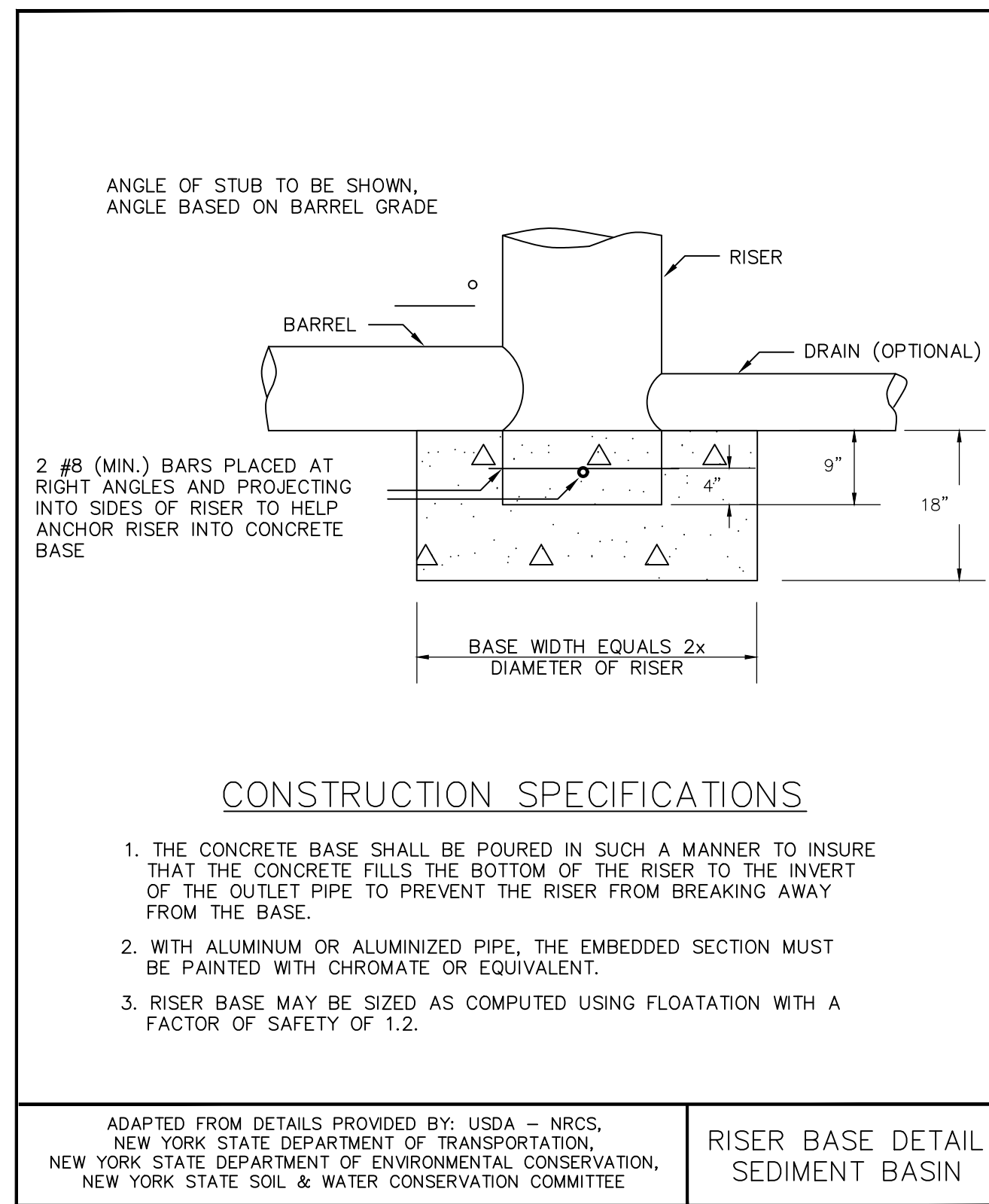
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CHECK DAM DETAILS

NOT TO SCALE



TEMPORARY SEDIMENT BASIN DESIGN DATA SHEET

Computed by _____ Date _____ Checked by _____ Date _____

Project _____ Basin # _____

Location _____ Total Area draining to basin (≤50 Ac.) 4.88 Acres

BASIN SIZE DESIGN

1. Sediment storage zone volume = 1,000 cu. ft. x number of disturbed acres = 4,880 cu. ft., Top of Zone Elev. 528.75
2. Dewatering zone volume = 3,600 cu. ft. x number of drainage area acres = 17,568 cu. ft., Top of Zone Elev. 531.5
3. Length to width ratio = 2.1
4. A. Cleanout at 50% of sediment storage zone volume, Elev. 527.625
B. Distance below top of riser 3 feet
5. Minimum surface area is larger of 0.01 Q₍₁₀₎ 0.17 or, 0.015 DA = 0.0732 use 0.17 acres 7,405.2 SF

DESIGN OF SPILLWAYS & ELEVATIONS

Runoff

6. Q₍₁₀₎ = 17.18 cfs (Attach runoff computation sheets)

Pipe Spillway (Q_{ps})

7. Min. pipe spillway cap., Q_{ps} = 0.2 x 4.88 Drainage Area, acres = 0.976 cfs
Note: If there is no emergency spillway, then required Q_{ps} = Q₍₁₀₎ = _____ cfs.
8. H₁ head = 2.7 ft. Barrel length = 36 ft
9. Barrel: Diam. 8 inches; Q_{ps} = (Q) 1.19 x (cor.fac.) 1.27 = 1.51 cfs.
10. Riser: Diam. 12 inches; Length 10 ft.; h = 1 ft. Crest Elev. 529.5
11. Trash Rack: Diameter = 20 inches; H, height = 11 inches

Emergency Spillway Design

12. Emergency Spillway Flow, Q_{es} = Q_s - Q_{ps} = 17.18 - 1.55 = 15.63 cfs.
13. Width 10 ft.; H₁ 1 ft. Crest elevation 532.5; Design High Water Elev. 533.5
Entrance channel slope 2 %; Top of Dam Elev. 534.5
Exit channel slope 3 %

ANTI-SEEP COLLAR/SEEPAGE DIAPHRAGM DESIGN

Collars:

14. y = 7.5 ft.; z = 2.5; pipe slope = 1 %; L₁ = 51 ft.
Use 2 collars, 4 - 9 inches square; projection = 1.8 ft.

Diaphragms:

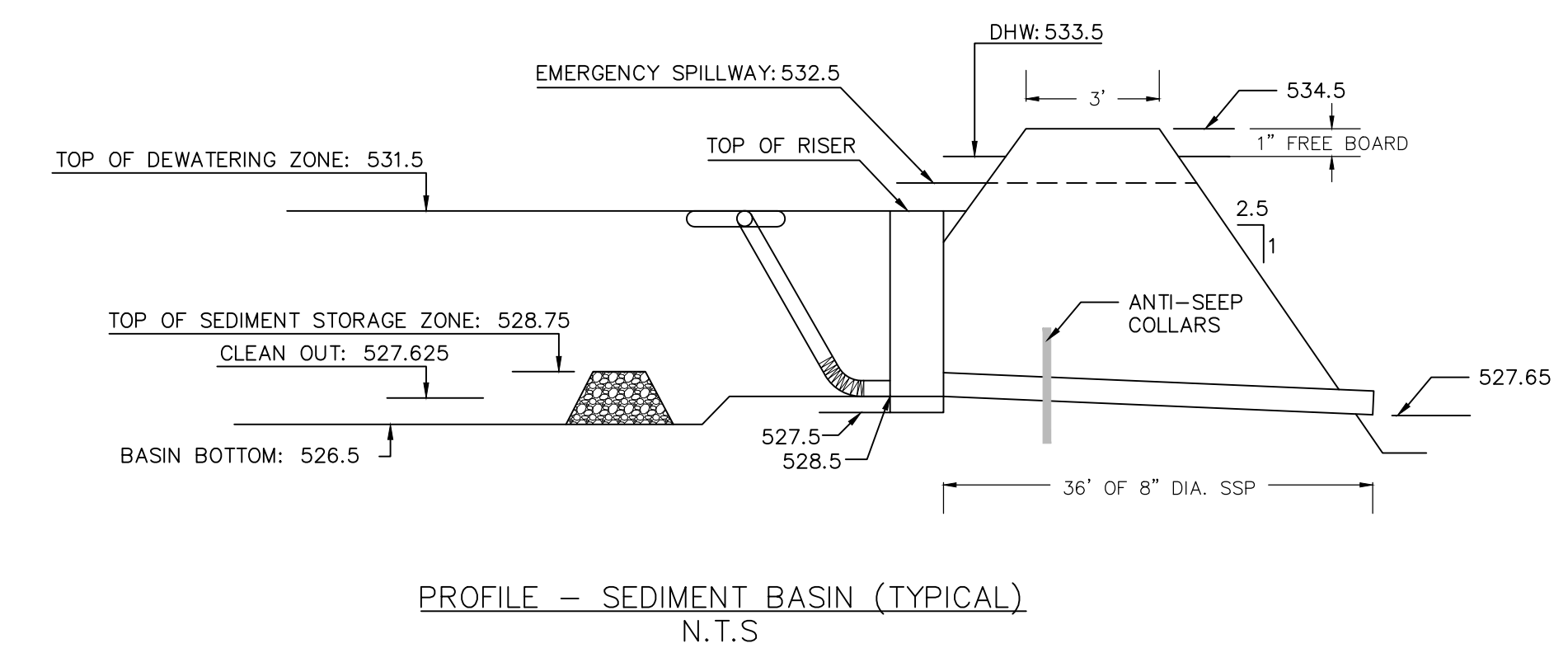
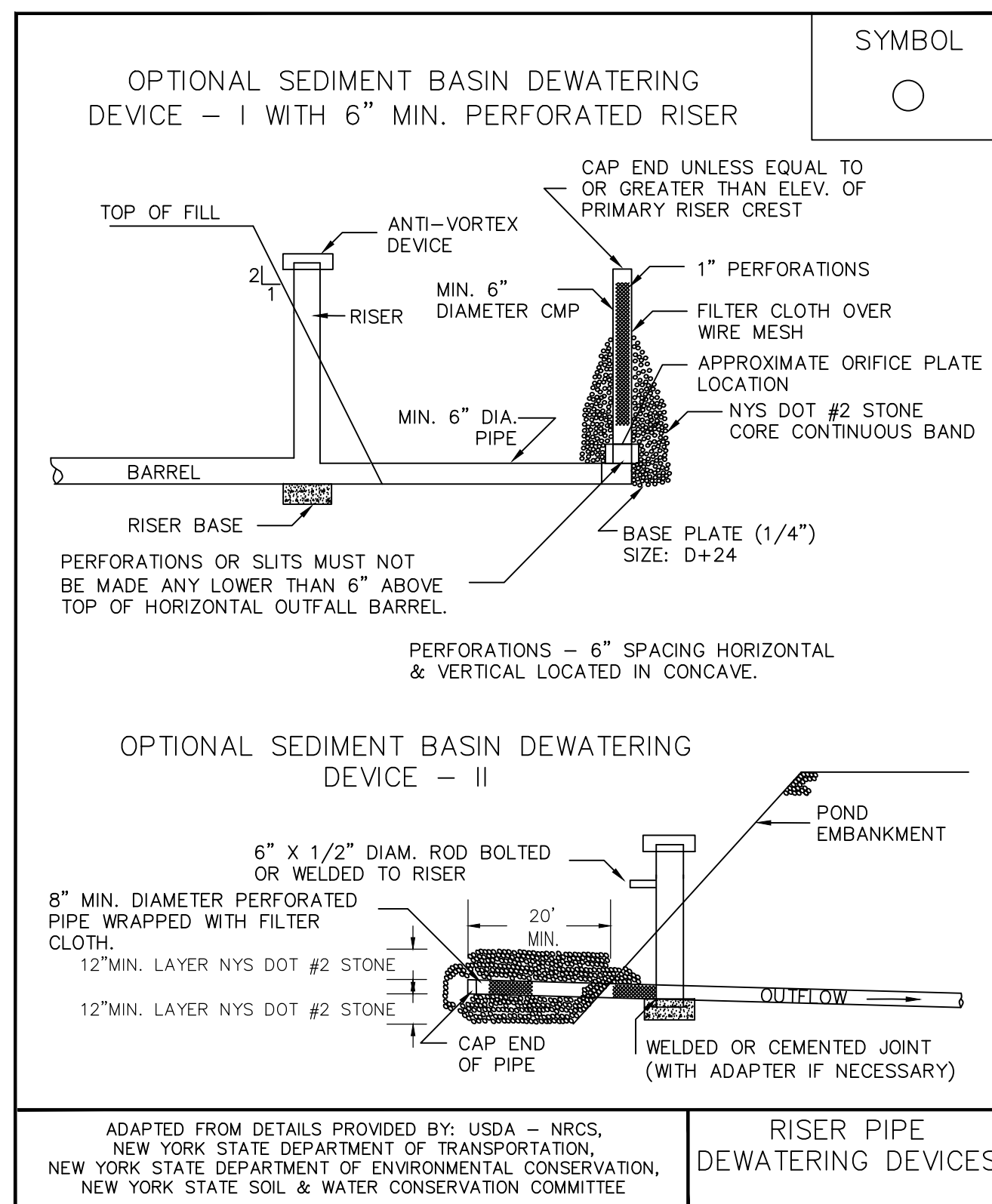
_____ width _____ ft. height _____ ft.

DEWATERING ORIFICE SIZING

(Determined from the Dewatering Device Standard)

15. Dewatering orifice diameter = 4.5 inches. Skimmer x or Riser _____ (check one)
16. Design dewatering time = 2 days (Min. 2 days required)

November 2016 Page 5.24 New York State Standards and Specifications For Erosion and Sediment Control



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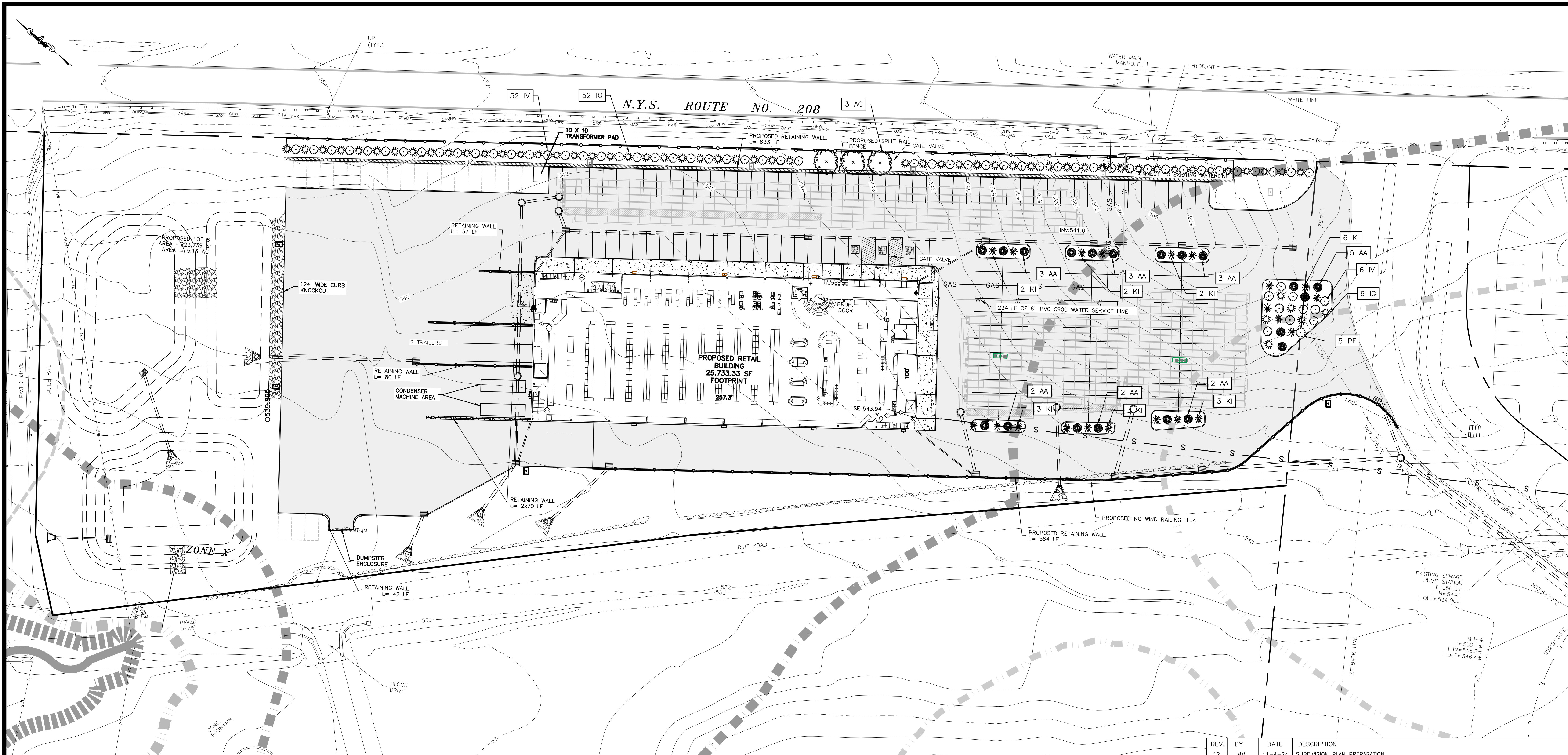
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NOTE:
RISER DETAILS ARE PROVIDED IF CONTRACTOR CHOOSES TO UTILIZE A RISER DESIGN FOR THE SEDIMENT BASIN



LANDSCAPING PLAN
SCALE: 1"=30'

LEGEND:

---	490	---	EXISTING MAJOR CONTOUR
---		---	EXISTING MINOR CONTOUR
---		---	EXISTING EDGE OF PAVEMENT
---		---	EXISTING PROPERTY LINE
---		---	PROPOSED PROPERTY LINE
---		---	EXISTING ADJACENT PROPERTY LINE
---		---	EXISTING BUILDING LINE
---		---	EXISTING FENCE
---		---	EXISTING STONE WALL
---		---	EXISTING OVERHEAD LINE
---		---	EXISTING WHITE LINE
---		---	EXISTING GAS LINE
---		---	EXISTING POLE
---		---	PROPOSED LANDSCAPING

SITE PLANT LIST

SYMBOL	QUANTITY	SCIENTIFIC NAME	COMMON NAME	INSTALLATION SIZE
EVERGREEN TREES				
AC	3	ABIES CONCOLOR	WHITE FIR	6-7 FT., BAB
SHRUBS (DECIDUOUS AND EVERGREEN)				
AA	20	ARONIA ARBUTIFOLIA	CHOKEBERRY	5 GAL
IG	58	ILEX GLABRA 'SHAMROCK'	INKBERRY	5 GAL
IV	58	ILEX VERTICILLATA	WINTERBERRY	3 GAL
KI	21	KALMIA LATIFOLIA	MOUNTAIN LAUREL	5 GAL
PF	5	POTENTILLA FRUTICOSA	SHRUBBY CINQUEFOIL	3 GAL

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LANDSCAPING PLAN

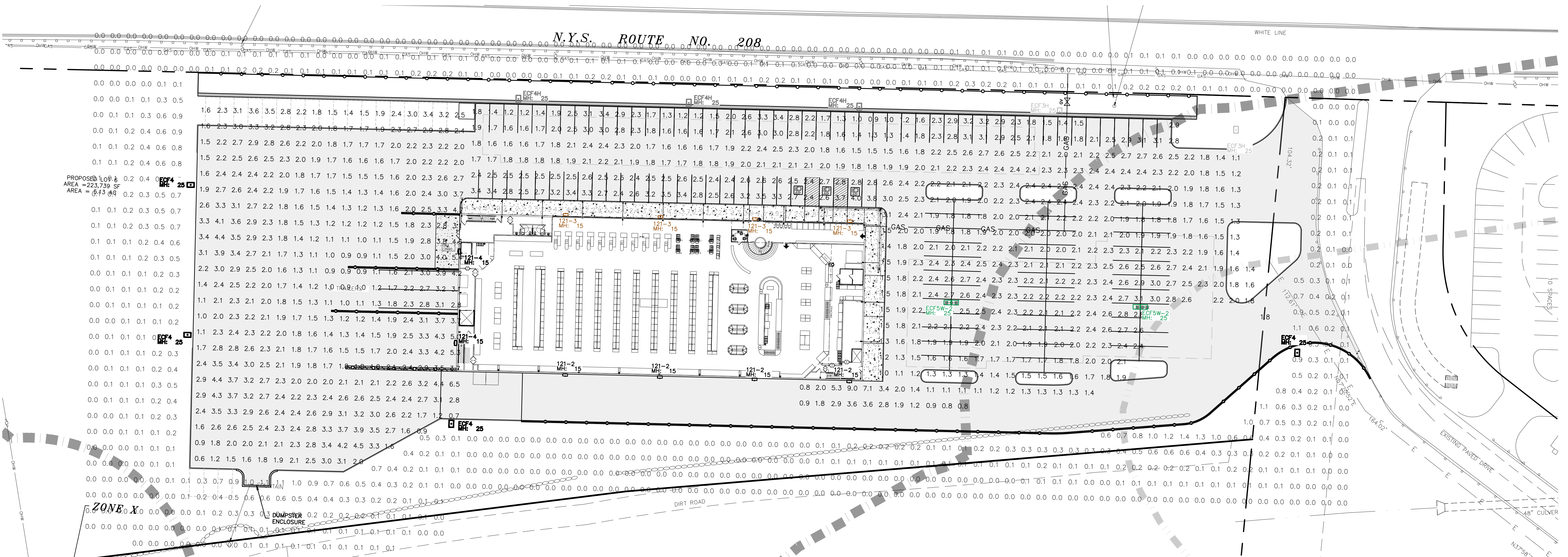
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LIGHTING PLAN
SCALE: 1"=30'

LUMINAIRE SCHEDULE										
PROJECT: SLEEP INN										
SYMBOL	QTY	LABEL	ARRANGEMENT	DESCRIPTION	LUMINAIRE LUMENS	LLF	LUMINAIRE WATTS	TOTAL WATTS	MOUNTING HEIGHT	LER
[Symbol]	4	121-2	SINGLE	121-16L-1000-NW-G4-2	5904	0.850	55	220	15	107
[Symbol]	4	121-3	SINGLE	121-16L-1000-NW-G4-3	5460	0.850	55	220	15	99
[Symbol]	2	121-4	SINGLE	121-32L-1000-NW-G4-4	11521	0.850	105	210	15	110
[Symbol]	2	ECF3H	SINGLE	ECF-S-48L-1A-NW-G2-3-HIS	15899	0.850	160	320	25	99
[Symbol]	4	ECF4	SINGLE	ECF-S-48L-1A-NW-G2-4	20880	0.850	160	640	25	130
[Symbol]	3	ECF4H	SINGLE	ECF-S-48L-1A-NW-G2-4-HIS	16372	0.850	160	480	25	102
[Symbol]	2	ECF5W-2	BACK-BACK	(2) ECF-S-48L-1A-NW-G2-5W	20755	0.850	160	640	25	130

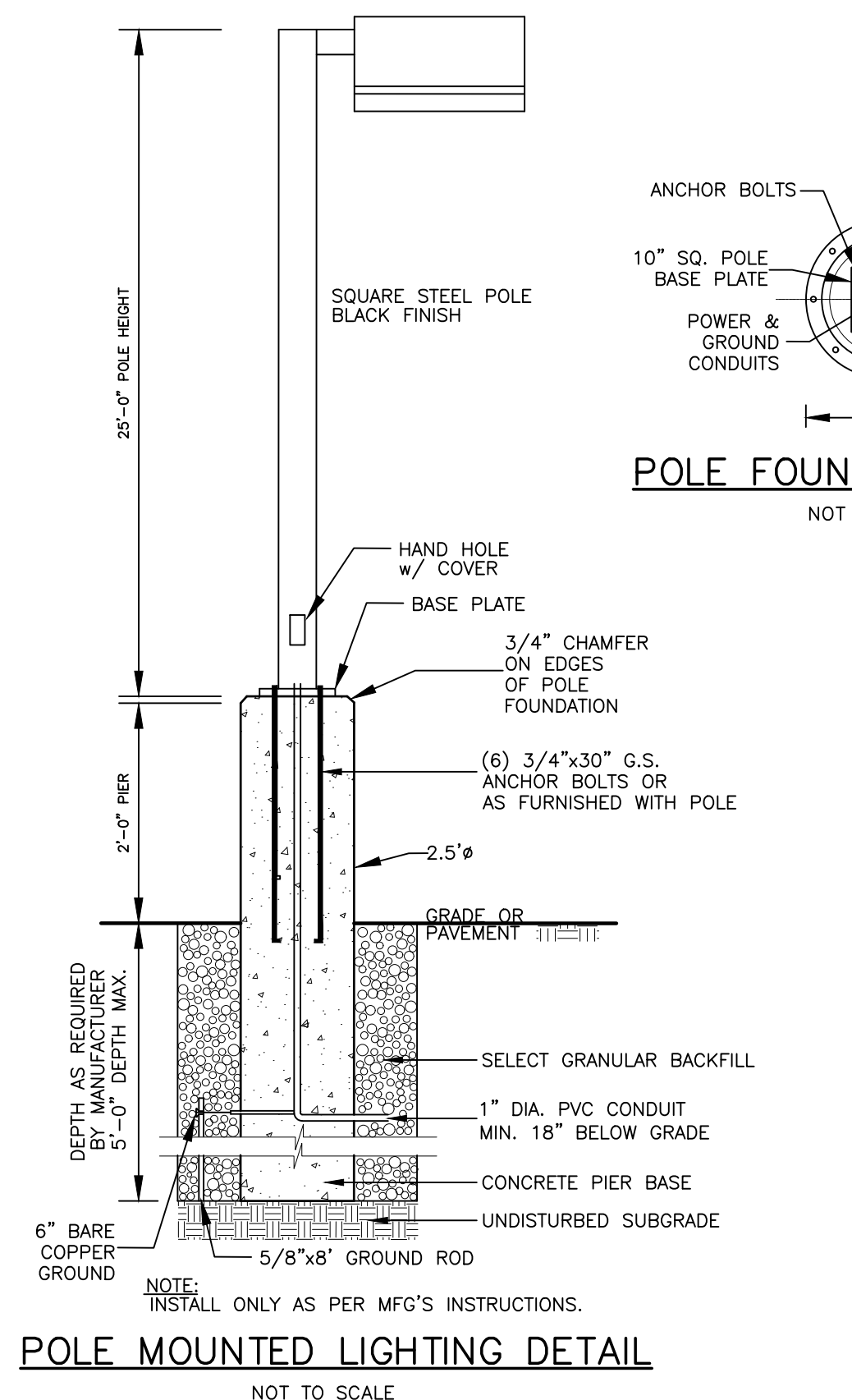
CALCULATION SUMMARY								
PROJECT: SLEEP INN								
LABEL	CALCTYPE	UNITS	AVG	MAX	MIN	AVG/MIN	MAX/MIN	
CAR PARKING LOT FC AT GRADE	ILLUMINANCE	FC	1.92	4.4	0.5	3.84	8.80	
FC BEYOND PROP LINE AT GRADE	ILLUMINANCE	FC	0.01	0.3	0.0	N.A.	N.A.	
PERIMETER GRASS AREA FC	ILLUMINANCE	FC	0.23	5.0	0.0	N.A.	N.A.	
REAR TRAILER LOT FC	ILLUMINANCE	FC	2.11	8.4	0.4	5.28	21.00	
SIDEWALK FC AT GRADE	ILLUMINANCE	FC	2.48	4.4	0.9	2.76	4.89	

- LEGEND:**
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 - EXISTING MINOR CONTOUR
 - EXISTING EDGE OF PAVEMENT
 - EXISTING PROPERTY LINE
 - PROPOSED PROPERTY LINE
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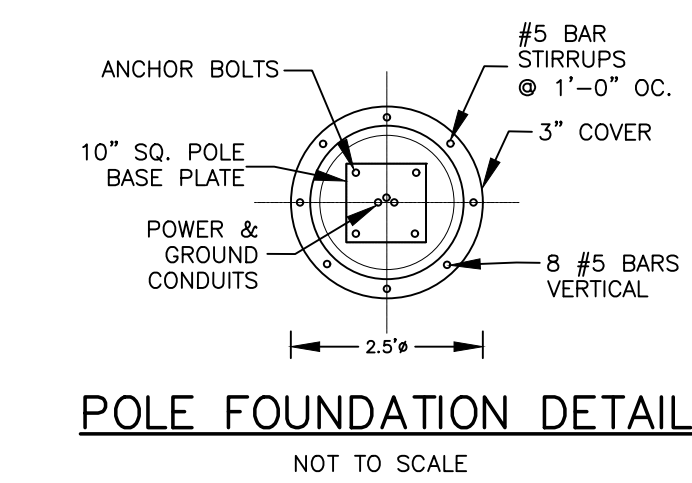
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POLE MOUNTED LIGHTING DETAIL
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POLE FOUNDATION DETAIL
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LIC. NO. 078577

SCALE
30 0 15 30 60
SCALE FEET
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DC-780 STORMTECH CHAMBER SPECIFICATIONS

- CHAMBERS SHALL BE STORMTECH DC-780.
- CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
- THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
- CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
- REQUIREMENTS FOR HANDLING AND INSTALLATION:
 - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
 - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
 - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 550 LBS/FT²%, THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
- ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
 - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
 - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
 - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
- CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

SC-740 STORMTECH CHAMBER SPECIFICATIONS

- CHAMBERS SHALL BE STORMTECH SC-740.
- CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
- THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
- CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
- REQUIREMENTS FOR HANDLING AND INSTALLATION:
 - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
 - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
 - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 550 LBS/FT²%, THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
- ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
 - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
 - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
 - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
- CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE DC-780 CHAMBER SYSTEM

- STORMTECH DC-780 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
- STORMTECH DC-780 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
- CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
 - STONESHOOTER LOCATED OFF THE CHAMBER BED.
 - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
 - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
- THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
- JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
- MAINTAIN MINIMUM - 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.
- EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE 3/4-2" (20-50 mm).
- THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
- ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

- STORMTECH DC-780 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
- THE USE OF CONSTRUCTION EQUIPMENT OVER DC-780 CHAMBERS IS LIMITED:
 - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
 - NO RUBBER TIRE LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
 - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
- FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-740 SYSTEM

- STORMTECH SC-740 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
- STORMTECH SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
- CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
 - STONESHOOTER LOCATED OFF THE CHAMBER BED.
 - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
 - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
- THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
- JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
- MAINTAIN MINIMUM - 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.
- EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE 3/4-2" (20-50 mm).
- THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
- ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

- STORMTECH SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
- THE USE OF CONSTRUCTION EQUIPMENT OVER SC-740 CHAMBERS IS LIMITED:
 - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
 - NO RUBBER TIRE LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
 - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
- FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

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REV.	BY	DATE	DESCRIPTION
12	MM	11-4-24	SUBDIVISION PLAN PREPARATION
11	MM	9-27-24	SEDIMENT BASIN REVISION
10	MM	3-11-24	FINAL ADS DESIGN & GAS UTILITY LOCATION ADDED
9	MM	3-4-24	FINAL ADS SHOP DRAWING DESIGN ADDED
8	MM	2-14-24	SW SHOP DWG REVISIONS & LIGHTING PLAN UPDATE
7	MM	2-5-24	FINAL PLANS COORDINATED WITH SHOP DRAWING APPROVAL
6	MM	2-3-24	FINAL PLANS FOR CONSTRUCTION
5	MM	1-18-24	MINOR DRAINAGE & SITE PLAN REVISIONS FOR CONSTRUCTION
4	MM	1-15-24	SW DETAIL & DRAINAGE REVISIONS
3	MM	11-30-23	TRANSFORMER LOCATION ADDED
2	MM	5-23-23	SWPPP REVISIONS
1	MM	8-15-22	PREPARATION OF PRELIMINARY PLANS

THIS SHEET IS NOT VALID WITHOUT ALL OF THE SHEETS THAT COMPRISE THE SET

ARDEN CONSULTING ENGINEERS, PLLC
P.O. BOX 340 MONROE, N.Y.
TEL: (845) 782-8114
WWW.ARDENCONSULTING.NET



AMENDED SITE PLAN & SUBDIVISION FOR
BAILIE LANE ESTATES LLC
VILLAGE OF SOUTH BLOOMING GROVE
ORANGE COUNTY, NEW YORK

STORMWATER
CONSTRUCTION DETAILS

JOB#: 22-013
SCALE: AS NOTED
DATE: 6/28/22
DRAWN: MM
CHECKED: MM
SHEET NO. 15 of 22

MICHAEL A. MORGANTE, P.E.
LIC. NO. 78577

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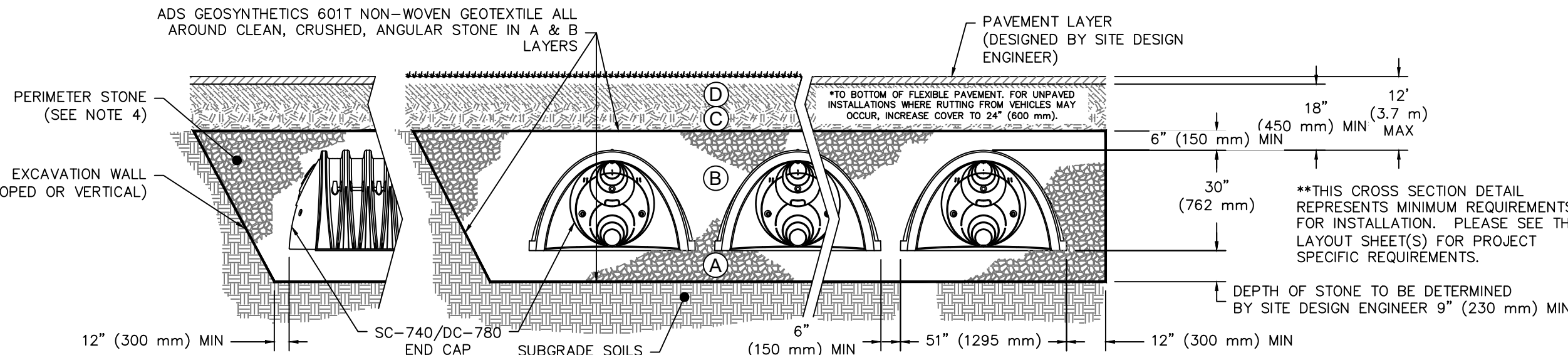
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ACCEPTABLE FILL MATERIALS: STORMTECH DC-780 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	AASHTO M145 ¹ A-1, A-2-4, A-3 OR AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
B	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ^{2,3}

- PLEASE NOTE:
- THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE"
 - STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (230 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
 - WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
 - ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.

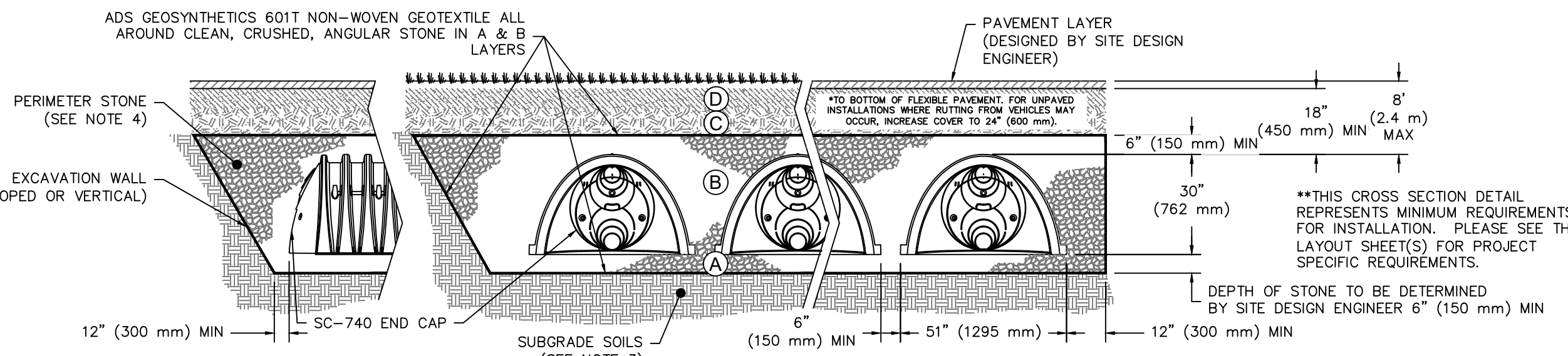


- NOTES:
- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
 - DC-780 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
 - THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
 - PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
 - REQUIREMENTS FOR HANDLING AND INSTALLATION:
 - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
 - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
 - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 550 LBS/FT²/% AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	AASHTO M145 ¹ A-1, A-2-4, A-3 OR AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
B	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ^{2,3}

- PLEASE NOTE:
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 - STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
 - WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
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- NOTES:
- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
 - SC-740 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
 - THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
 - PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
 - REQUIREMENTS FOR HANDLING AND INSTALLATION:
 - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
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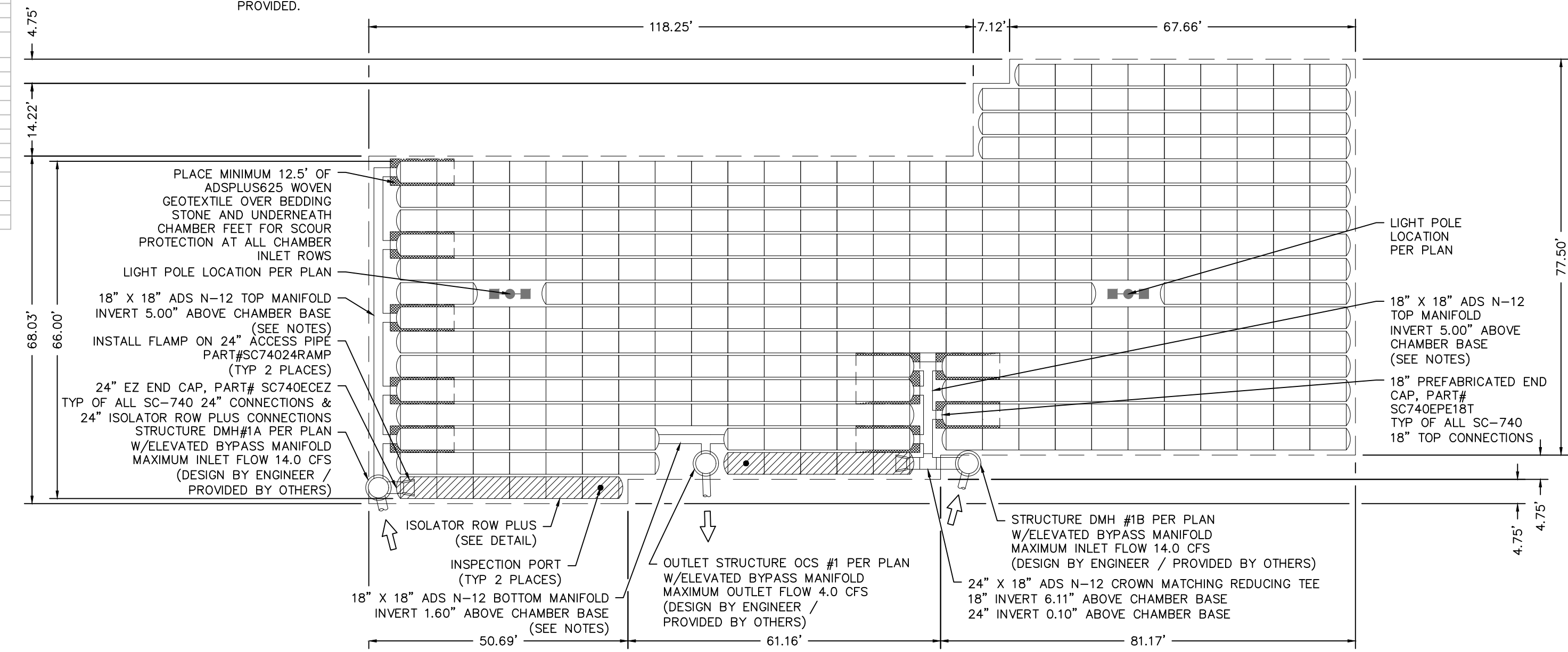
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PROPOSED LAYOUT - SOUTH SYSTEM

359	STORMTECH SC-740 CHAMBERS
52	STORMTECH SC-740 END CAPS
6	STONE ABOVE (in)
9	STONE BELOW (in)
40	% STONE VOID
30,079	INSTALLED SYSTEM VOLUME (CF) (PERIMETER STONE INCLUDED)
13454	SYSTEM AREA (ft ²)
560	SYSTEM PERIMETER (ft)

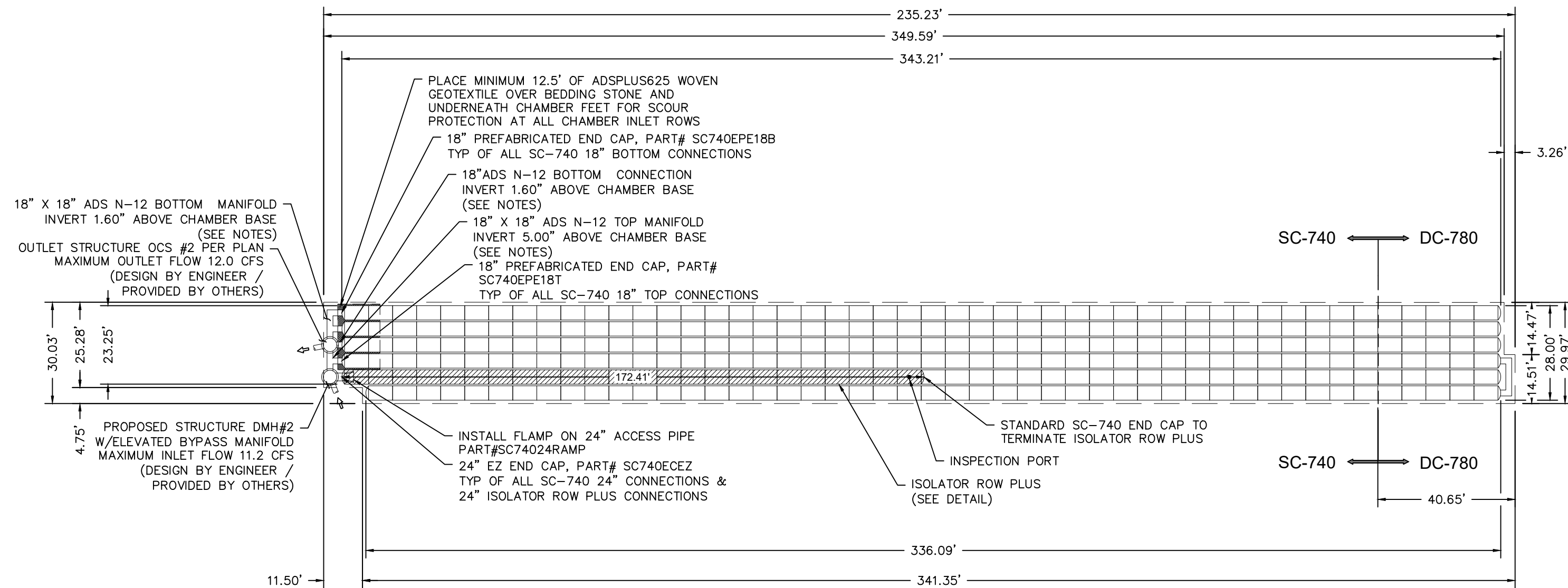
PROPOSED ELEVATIONS

555.65	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED)
549.65	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC)
549.15	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC)
549.15	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)
549.15	MINIMUM ALLOWABLE GRADE (TOP OF RIGID PAVEMENT)
548.15	TOP OF STONE
547.65	TOP OF SC-740 CHAMBER
545.57	18" TOP MANHOLE INVERT
545.28	18" BOTTOM MANHOLE INVERT
545.16	24" ISOLATOR ROW PLUS CONNECTION INVERT
545.15	BOTTOM OF SC-740 CHAMBER
544.40	BOTTOM OF STONE



- NOTES:
- MANHOLE SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECHNICAL NOTE 6.32 FOR MANHOLE SIZING GUIDANCE.
 - DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANHOLE COMPONENTS IN THE FIELD.
 - THIS CHAMBER SYSTEM WAS DESIGNED WITHOUT SITE-SPECIFIC INFORMATION ON SOIL CONDITIONS OR BEARING CAPACITY. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR DETERMINING THE SUITABILITY OF THE SOIL AND PROVIDING THE BEARING CAPACITY OF THE INSTU SOILS. THE BASE STONE DEPTH MAY BE INCREASED OR DECREASED ONCE THIS INFORMATION IS PROVIDED.
 - THE SITE DESIGN ENGINEER MUST REVIEW THE PROXIMITY OF THE CHAMBERS TO THE SLOPE AND CONSIDER EFFECTS OF POSSIBLE SATURATED SOILS ON THE SLOPE'S INTEGRITY.

STORMTECH SC-740 CHAMBER SYSTEM-1 NOT TO SCALE



STORMTECH SC-740-SC-780 CHAMBER SYSTEM-2 NOT TO SCALE

PROPOSED LAYOUT - NORTH SYSTEM

30	STORMTECH DC-780 CHAMBERS
257	STORMTECH SC-740 CHAMBERS
6	STORMTECH DC-780 END CAPS
7	STORMTECH SC-740 END CAPS
6	STONE ABOVE (in)
9	STONE BELOW (in)
40	% STONE VOID
23,660	INSTALLED SYSTEM VOLUME (CF) (PERIMETER STONE INCLUDED)
10480	SYSTEM AREA (ft ²)
759	SYSTEM PERIMETER (ft)

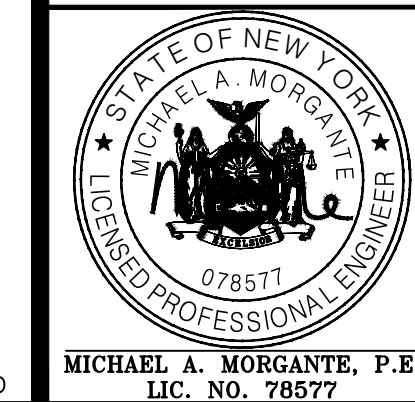
PROPOSED ELEVATIONS - NORTH SYSTEM

556.00	MAXIMUM ALLOWABLE GRADE DC-780 (TOP OF PAVEMENT/UNPAVED)
552.00	MAXIMUM ALLOWABLE GRADE SC-740 (TOP OF PAVEMENT/UNPAVED)
546.00	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC)
545.50	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC)
545.50	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)
545.50	MINIMUM ALLOWABLE GRADE (TOP OF RIGID PAVEMENT)
544.50	TOP OF STONE
544.00	TOP OF SC-740/DC-780 CHAMBER
541.92	18" TOP MANHOLE INVERT
541.63	18" BOTTOM MANHOLE CONNECTION INVERT
541.51	24" ISOLATOR ROW PLUS CONNECTION INVERT
541.50	BOTTOM OF SC-740/DC-780 CHAMBER
540.75	BOTTOM OF STONE

REV.	BY	DATE	DESCRIPTION
12	MM	11-4-24	SUBDIVISION PLAN PREPARATION
11	MM	9-27-24	SEDIMENT BASIN REVISION
10	MM	3-11-24	FINAL ADS DESIGN & GAS UTILITY LOCATION ADDED
9	MM	3-4-24	FINAL ADS SHOP DRAWING DESIGN ADDED
8	MM	2-14-24	SW SHOP DWG REVISIONS & LIGHTING PLAN UPDATE
7	MM	2-5-24	FINAL PLANS COORDINATED WITH SHOP DRAWING APPROVAL
6	MM	2-3-24	FINAL PLANS FOR CONSTRUCTION
5	MM	1-18-24	MINOR DRAINAGE & SITE PLAN REVISIONS FOR CONSTRUCTION
4	MM	1-15-24	SW DETAIL & DRAINAGE REVISIONS
3	MM	11-30-23	TRANSFORMER LOCATION ADDED
2	MM	5-23-23	SWPPP REVISIONS
1	MM	8-15-22	PREPARATION OF PRELIMINARY PLANS

THIS SHEET IS NOT VALID WITHOUT ALL OF THE SHEETS THAT COMPRISE THE SET

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P.O. BOX 340 MONROE, N.Y.
TEL: (845) 782-8114
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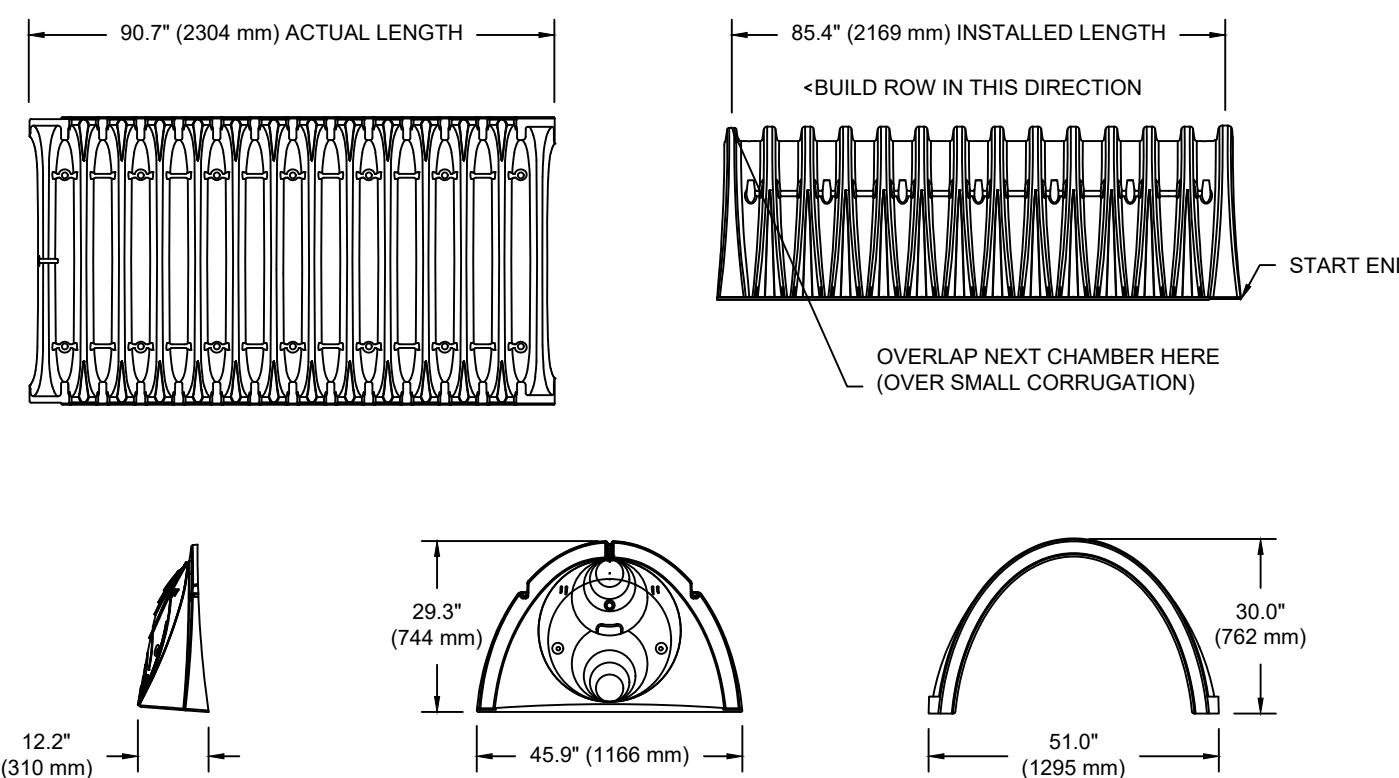


AMENDED SITE PLAN & SUBDIVISION FOR
BAILIE LANE ESTATES LLC
VILLAGE OF SOUTH BLOOMING GROVE
ORANGE COUNTY, NEW YORK

STORMWATER CONSTRUCTION DETAILS

JOB#: 22-013
SCALE: AS NOTED
DATE: 6/28/22
DRAWN: MM
CHECKED: MM
SHEET NO. 16 of 22

DC-780 TECHNICAL SPECIFICATION



NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	CHAMBER STORAGE	MINIMUM INSTALLED STORAGE*	WEIGHT
51.0" X 30.0" X 85.4"	46.2 CUBIC FEET (1.30 m ³)	78.4 CUBIC FEET (2.20 m ³)	75.0 lbs. (33.6 kg)
(1295 mm X 762 mm X 2169 mm)			

*ASSUMES 6" (152 mm) STONE ABOVE, 9" (229 mm) BELOW, AND 6" (152 mm) BETWEEN CHAMBERS

PRE-FAB STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
PRE-FAB STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"
PRE-CORED END CAPS END WITH "PC"

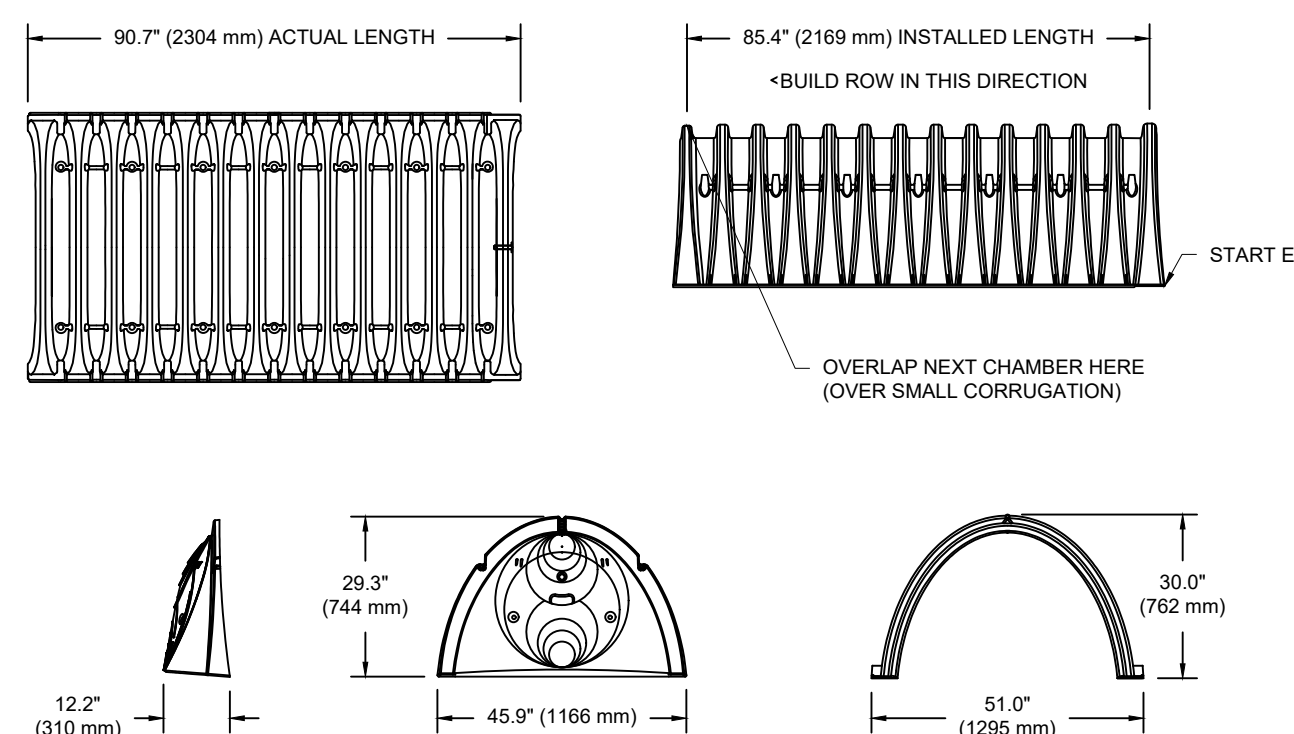
PART #	STUB	A	B	C
SC740EPE06T / SC740EPE06TPC	---	---	18.5" (470 mm)	---
SC740EPE06B / SC740EPE06BPC	6" (150 mm)	10.9" (277 mm)	---	0.5" (13 mm)
SC740EPE08T / SC740EPE08TPC	---	---	16.5" (419 mm)	---
SC740EPE08B / SC740EPE08BPC	8" (200 mm)	12.2" (310 mm)	---	0.6" (15 mm)
SC740EPE10T / SC740EPE10TPC	---	---	14.5" (368 mm)	---
SC740EPE10B / SC740EPE10BPC	10" (250 mm)	13.4" (340 mm)	---	0.7" (18 mm)
SC740EPE12T / SC740EPE12TPC	---	---	12.5" (318 mm)	---
SC740EPE12B / SC740EPE12BPC	12" (300 mm)	14.7" (373 mm)	---	1.2" (30 mm)
SC740EPE15T / SC740EPE15TPC	---	---	9.0" (229 mm)	---
SC740EPE15B / SC740EPE15BPC	15" (375 mm)	18.4" (467 mm)	---	1.3" (33 mm)
SC740EPE18T / SC740EPE18TPC	---	---	5.0" (127 mm)	---
SC740EPE18B / SC740EPE18BPC	18" (450 mm)	19.7" (500 mm)	---	1.6" (41 mm)
SC740ECEZ*	24" (600 mm)	18.5" (470 mm)	---	0.1" (3 mm)

ALL STUBS, EXCEPT FOR THE SC740ECEZ ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2694.

*FOR THE SC740ECEZ THE 24" (600 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 1.75" (44 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

NOTE: ALL DIMENSIONS ARE NOMINAL

SC-740 TECHNICAL SPECIFICATION



NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	CHAMBER STORAGE	MINIMUM INSTALLED STORAGE*	WEIGHT
51.0" X 30.0" X 85.4"	45.9 CUBIC FEET (1.30 m ³)	74.9 CUBIC FEET (2.12 m ³)	75.0 lbs. (33.6 kg)
(1295 mm X 762 mm X 2169 mm)			

*ASSUMES 6" (152 mm) STONE ABOVE, BELOW, AND BETWEEN CHAMBERS

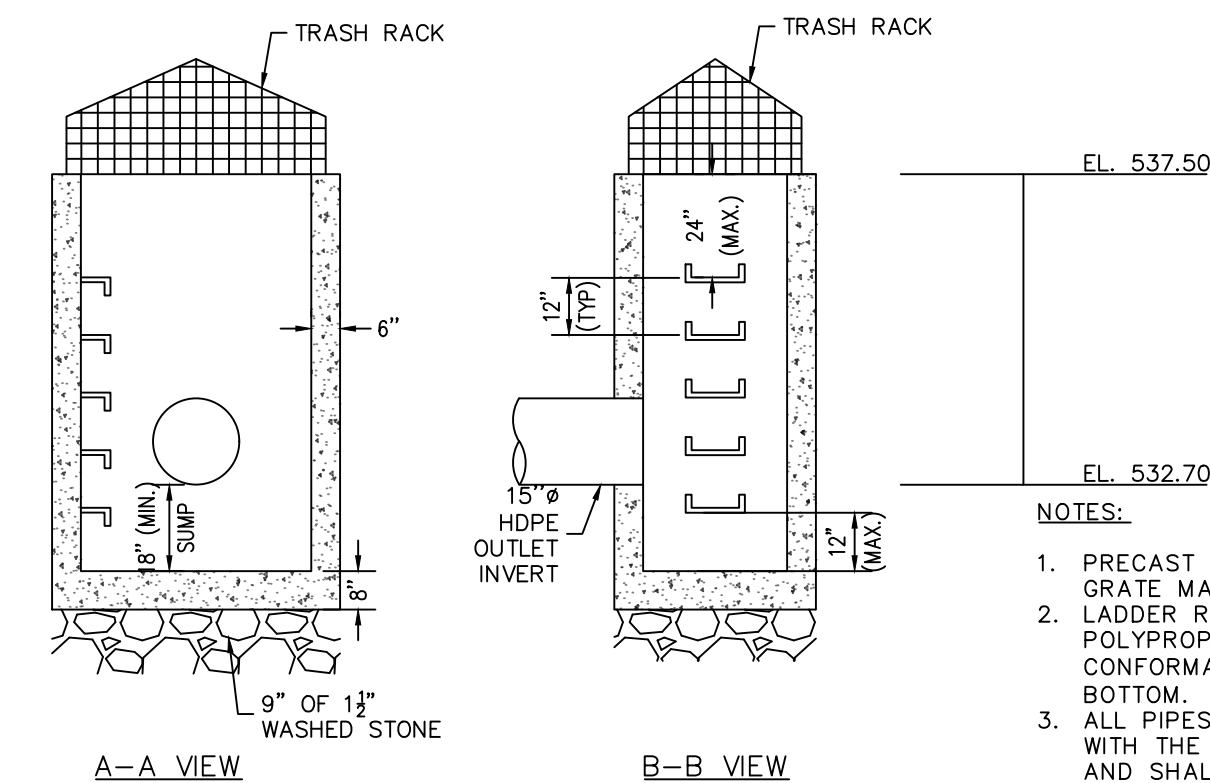
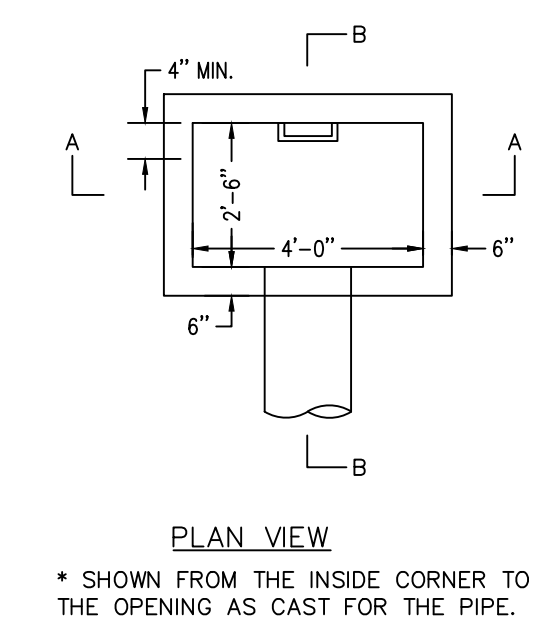
PRE-FAB STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
PRE-FAB STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"
PRE-CORED END CAPS END WITH "PC"

PART #	STUB	A	B	C
SC740EPE06T / SC740EPE06TPC	---	---	18.5" (470 mm)	---
SC740EPE06B / SC740EPE06BPC	6" (150 mm)	10.9" (277 mm)	---	0.5" (13 mm)
SC740EPE08T / SC740EPE08TPC	---	---	16.5" (419 mm)	---
SC740EPE08B / SC740EPE08BPC	8" (200 mm)	12.2" (310 mm)	---	0.6" (15 mm)
SC740EPE10T / SC740EPE10TPC	---	---	14.5" (368 mm)	---
SC740EPE10B / SC740EPE10BPC	10" (250 mm)	13.4" (340 mm)	---	0.7" (18 mm)
SC740EPE12T / SC740EPE12TPC	---	---	12.5" (318 mm)	---
SC740EPE12B / SC740EPE12BPC	12" (300 mm)	14.7" (373 mm)	---	1.2" (30 mm)
SC740EPE15T / SC740EPE15TPC	---	---	9.0" (229 mm)	---
SC740EPE15B / SC740EPE15BPC	15" (375 mm)	18.4" (467 mm)	---	1.3" (33 mm)
SC740EPE18T / SC740EPE18TPC	---	---	5.0" (127 mm)	---
SC740EPE18B / SC740EPE18BPC	18" (450 mm)	19.7" (500 mm)	---	1.6" (41 mm)
SC740ECEZ*	24" (600 mm)	18.5" (470 mm)	---	0.1" (3 mm)

ALL STUBS, EXCEPT FOR THE SC740ECEZ ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2694.

*FOR THE SC740ECEZ THE 24" (600 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 1.75" (44 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

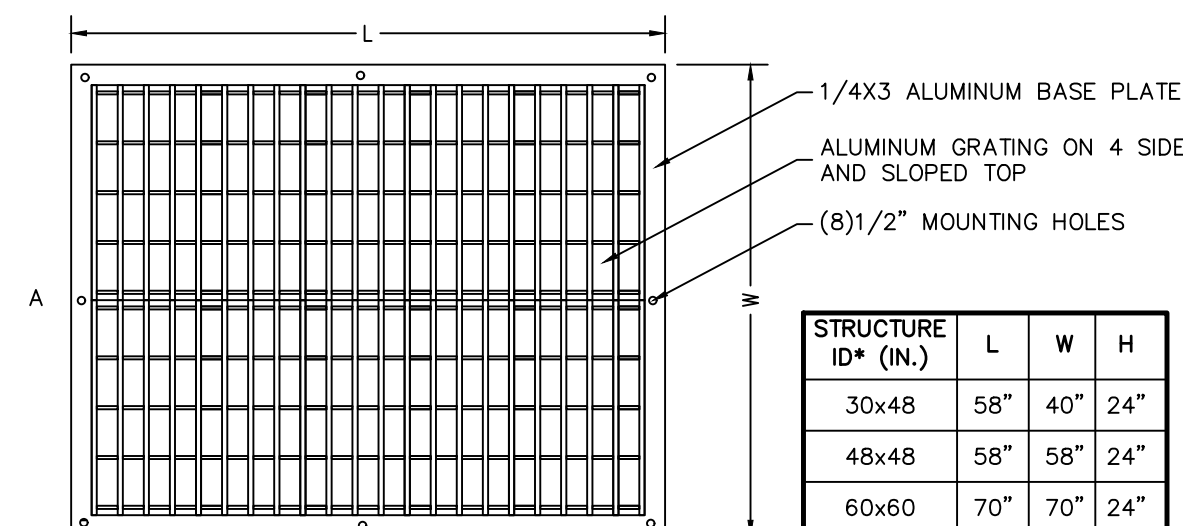
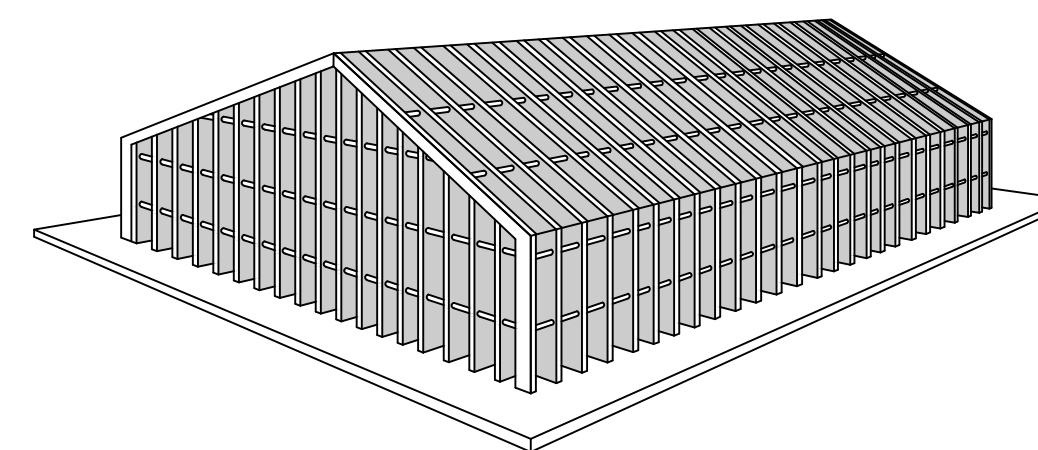
NOTE: ALL DIMENSIONS ARE NOMINAL



STORMWATER POND OUTLET CONTROL STRUCTURE

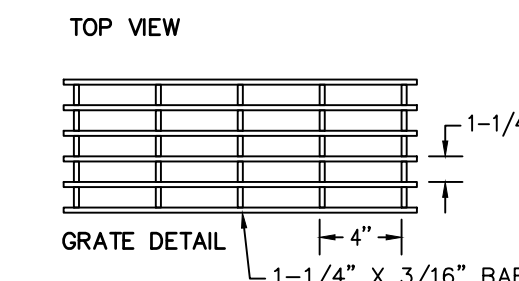
OCS #3
NOT TO SCALE

- NOTES:
1. PRECAST CONCRETE TOP WITH FRAME AND GRATE MAY NOT BE USED.
 2. LADDER RUNGS SHALL BE STEEL REINFORCED POLYPROPYLENE PLASTIC STEPS IN CONFORMANCE WITH ASTM C-478, 12" TO BOTTOM.
 3. ALL PIPES SHALL BE LAID OR CUT FLUSH WITH THE INSIDE OF THE CATCH BASIN WALL AND SHALL BE FIRMLY PARGED IN PLACE, BOTH INSIDE AND OUTSIDE.



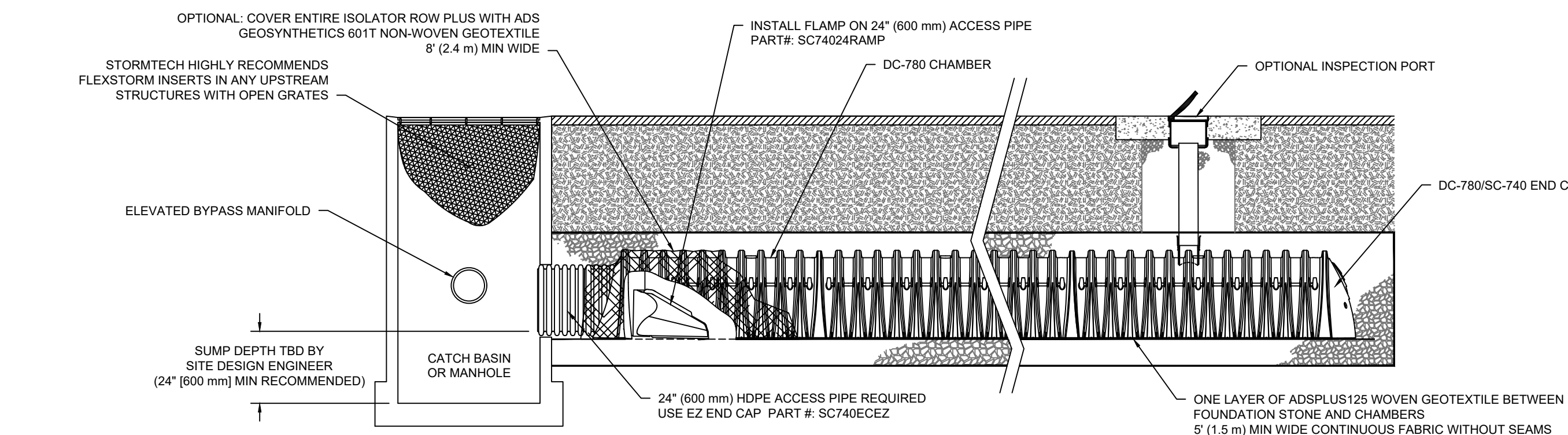
STRUCTURE ID# (IN.)	L	W	H
30x48	58"	40"	24"
48x48	58"	58"	24"
60x60	70"	70"	24"

*THESE GRATES CAN BE CUSTOM MADE TO FIT ANY SIZE.



PEAKED ALUMINUM TRASH RACK FOR POND OUTLET

NOT TO SCALE



DC-780 ISOLATOR ROW PLUS DETAIL

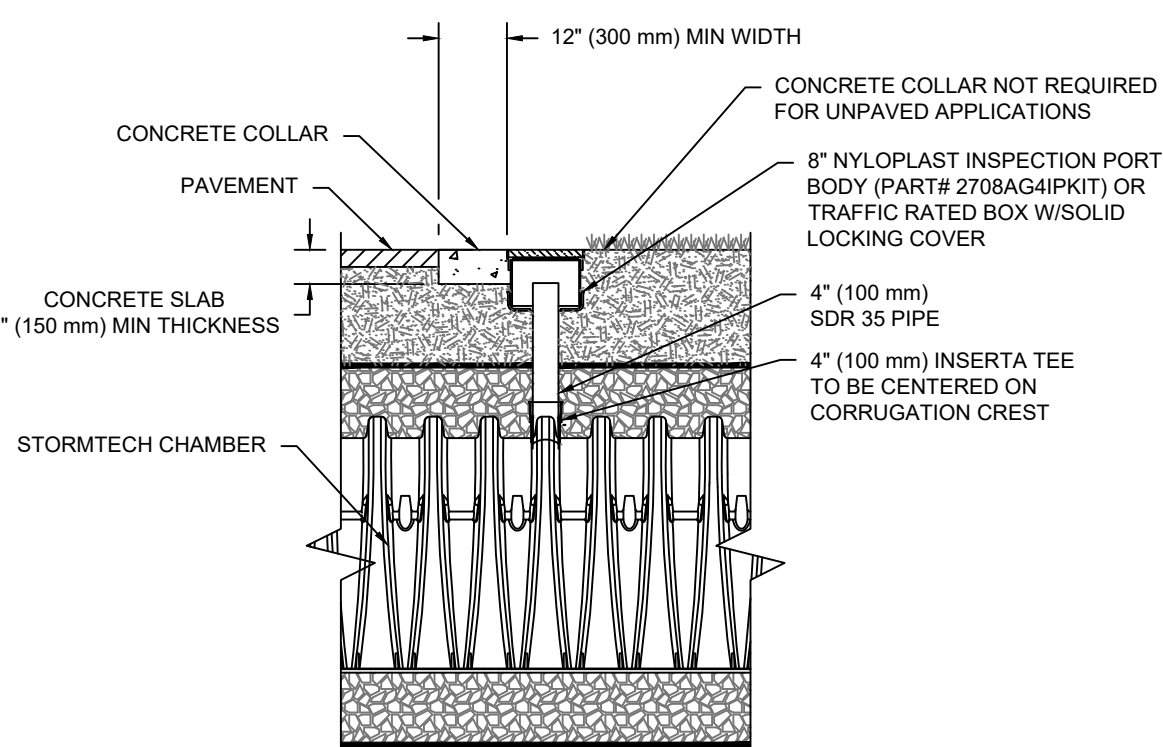
NTS

INSPECTION & MAINTENANCE

- STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
- INSPECTION PORTS (IF PRESENT)
 - REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
 - REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
 - USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
 - LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
 - IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR PLUS ROWS
- REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
 - USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
 - MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
 - FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
 - IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
- A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45° (1.1 m) OR MORE IS PREFERRED
 - APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
 - VACUUM STRUCTURE SUMP AS REQUIRED
- STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.
- STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES

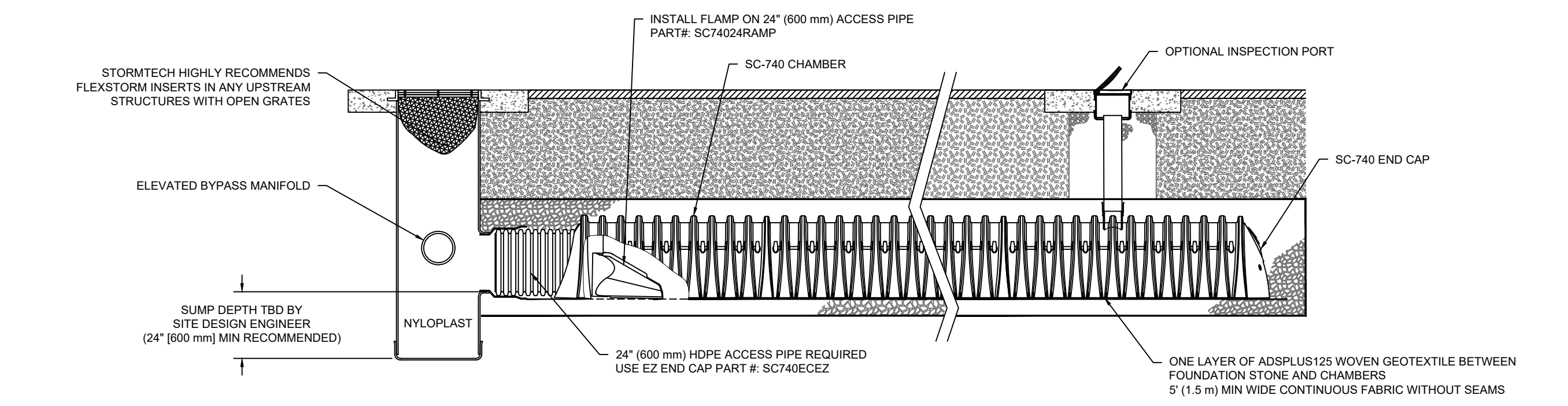
1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.



NOTE: INSPECTION PORTS MAY BE CONNECTED THROUGH ANY CHAMBER CORRUGATION CREST.

4" PVC INSPECTION PORT DETAIL (SC SERIES CHAMBER)

NTS



SC-740 ISOLATOR ROW PLUS DETAIL

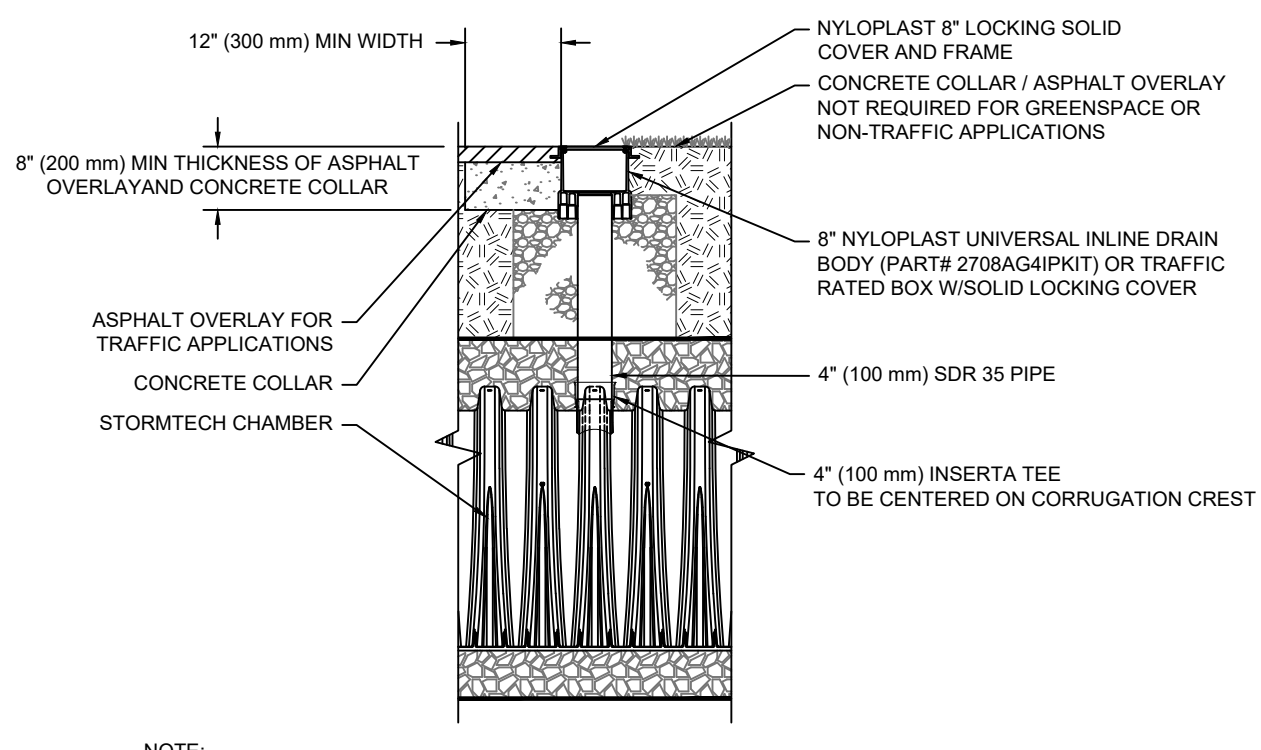
NTS

INSPECTION & MAINTENANCE

- STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
- INSPECTION PORTS (IF PRESENT)
 - REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
 - REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
 - USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
 - LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
 - IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR PLUS ROWS
- REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
 - USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
 - MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
 - FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
 - IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
- A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45° (1.1 m) OR MORE IS PREFERRED
 - APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
 - VACUUM STRUCTURE SUMP AS REQUIRED
- STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.
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NOTES

1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
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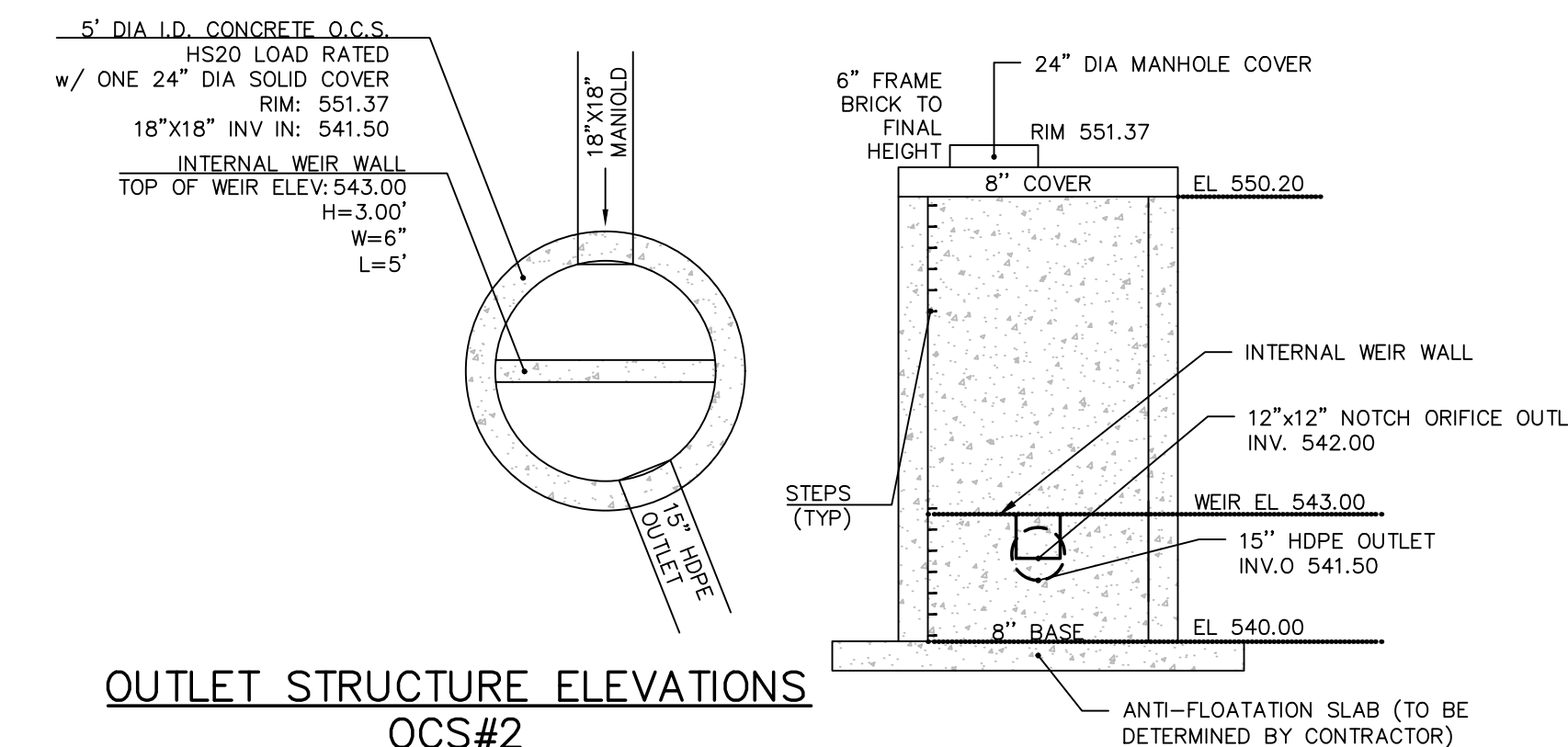
NOTE: INSPECTION PORTS MAY BE CONNECTED THROUGH ANY CHAMBER CORRUGATION CREST.

4" PVC INSPECTION PORT DETAIL (SC SERIES CHAMBER)

NTS

ONLY MAPS WITH EMBOSSED SEALS ARE GENUINE COPIES OF THE ORIGINAL WORK AND OPINION. MAPS NOT BEARING EMBOSSED SEALS SHOULD NOT BE RELIED UPON SINCE OTHER THAN EMBOSSED-SEAL COPIES MAY CONTAIN UNAUTHORIZED AND UNDETECTABLE MODIFICATIONS, DELETIONS, ADDITIONS AND CHANGES.

00g NY MUST BE CONTACTED PRIOR TO ANY EXCAVATION OR DEMOLITION



OUTLET STRUCTURE ELEVATIONS

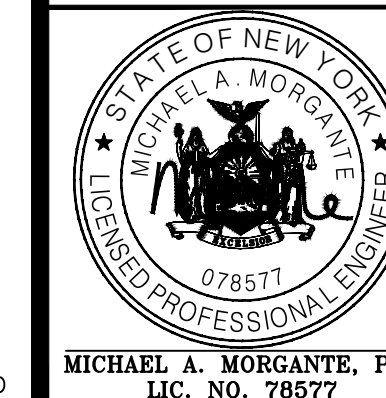
OCS#2

SCALE: 1" = 1'

REV.	BY	DATE	DESCRIPTION
12	MM	11-4-24	SUBDIVISION PLAN PREPARATION
11	MM	9-27-24	SEDIMENT BASIN REVISION
10	MM	3-11-24	FINAL ADS DESIGN & GAS UTILITY LOCATION ADDED
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1	MM	8-15-22	PREPARATION OF PRELIMINARY PLANS

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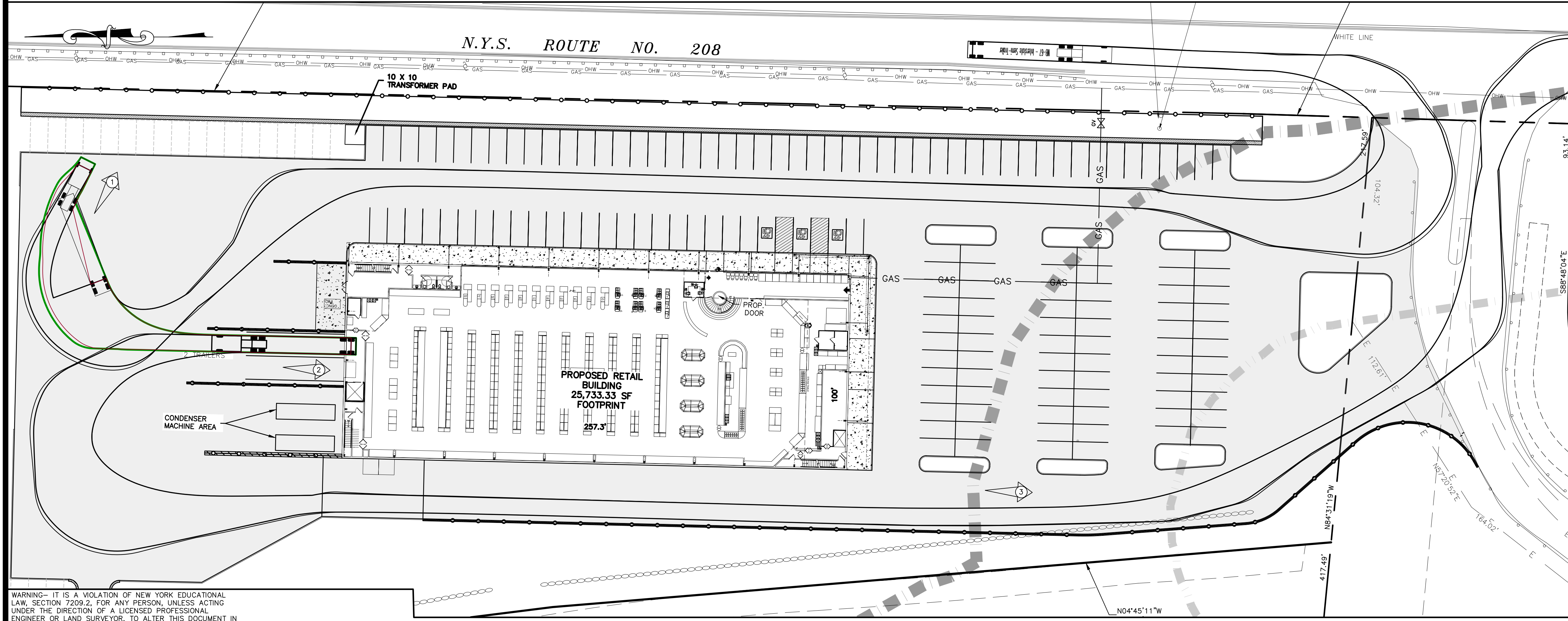
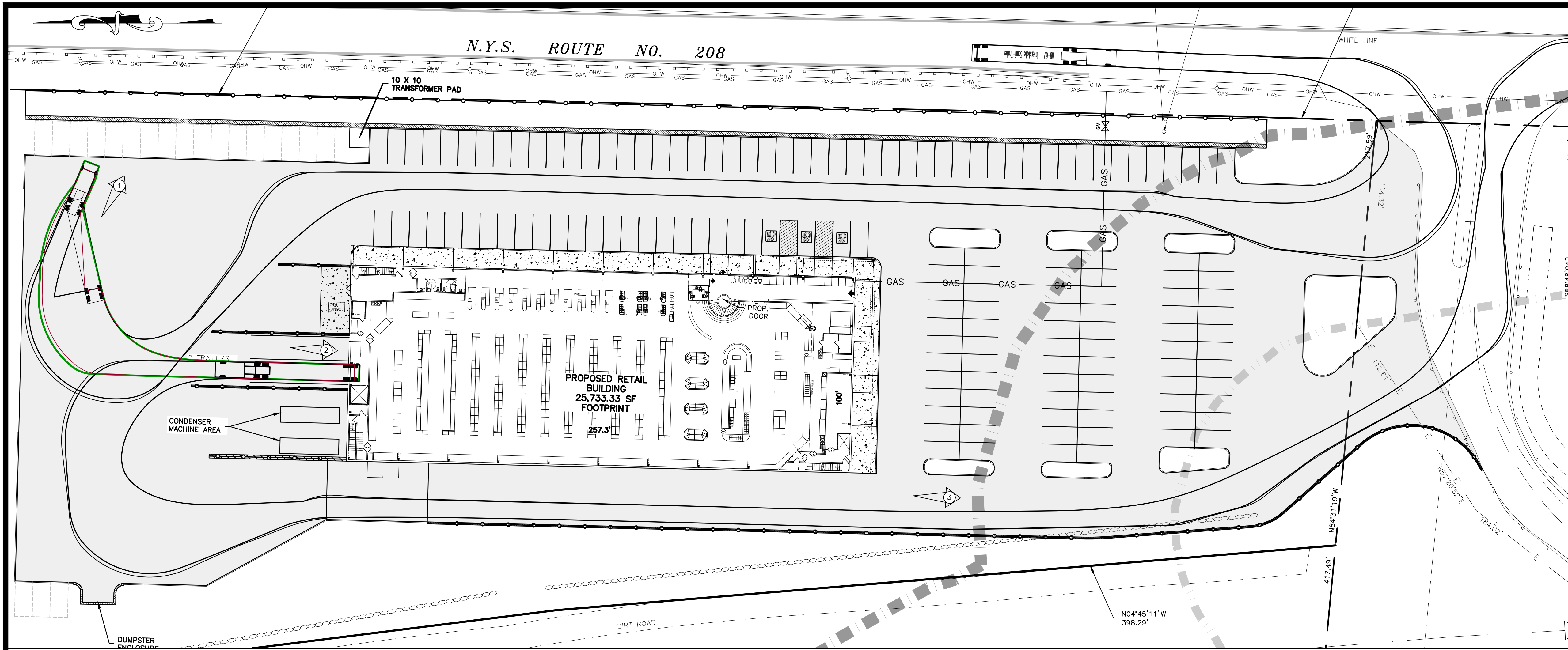
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P.O. BOX 340 MONROE, N.Y.
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AMENDED SITE PLAN & SUBDIVISION FOR
BAILIE LANE ESTATES LLC
VILLAGE OF SOUTH BLOOMING GROVE
ORANGE COUNTY, NEW YORK

STORMWATER
CONSTRUCTION DETAILS

JOB#: 22-013
SCALE: AS NOTED
DATE: 6/28/22
DRAWN: MM
CHECKED: MM
SHEET NO. 17 of 22



- LEGEND:**
- 490 --- EXISTING MAJOR CONTOUR
 - EXISTING MINOR CONTOUR
 - EXISTING EDGE OF PAVEMENT
 - EXISTING PROPERTY LINE
 - PROPOSED PROPERTY LINE
 - EXISTING ADJACENT PROPERTY LINE
 - EXISTING BUILDING LINE
 - X --- X --- EXISTING FENCE
 - EXISTING STONE WALL
 - OHW --- OHW --- EXISTING OVERHEAD LINE
 - EXISTING WHITE LINE
 - GAS --- GAS --- EXISTING GAS LINE
 - EXISTING POLE
 - EXISTING SIGN
 - EXISTING TRAFFIC SIGNAL POLE
 - EXISTING TRAFFIC SIGNAL BOX
 - EXISTING SEWER MANHOLE
 - EXISTING OVERHEAD TRAFFIC SIGNAL
 - EXISTING FIRE HYDRANT
 - EXISTING INLET
 - EXISTING WATER VALVE
 - EXISTING GAS VALVE
 - EXISTING ELECTRIC METER
 - EXISTING GAS METER
 - EXISTING STEEL AND CONCRETE BOLLAR
 - EXISTING PROPERTY CORNER
 - EXISTING MISC. STEEL ACCESS LIDS & MANHOLES
 - EXISTING IRON PIPE MARKER
 - 100' SURFACE WATER OVERLAY BUFFER
 - SCENIC GATEWAYS OVERLAY
 - SURFACE WATER OVERLAY
 - RIDGELINE OVERLAY/SIGNIFICANT BIOLOGICAL OVERLAY
 - STREAM AND POND AREA
 - PROPOSED SETBACK
 - PROPOSED BUILDING
 - PROPOSED EDGE OF PAVEMENT
 - S --- PROPOSED 2" SDR21 SEWAGE FORCEMAIN
 - W --- PROPOSED 5' DIA. SEWAGE PUMP STATION
 - PROPOSED 6" PVC C900 WATER SERVICE LINE
 - DEDICATION AREA
 - PROPOSED GUIDERAIL

REV.	BY	DATE	DESCRIPTION
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AMENDED SITE PLAN & SUBDIVISION FOR
BAILIE LANE ESTATES LLC
VILLAGE OF SOUTH BLOOMING GROVE
ORANGE COUNTY, NEW YORK

TURNING DIAGRAMS

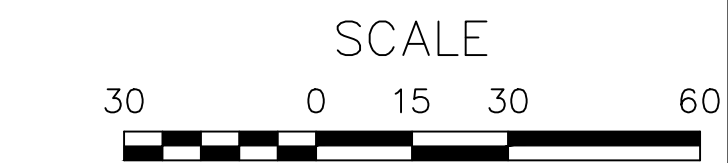
JOB#: 22-013
SCALE: AS NOTED
DATE: 6/28/22
DRAWN: MM
CHECKED: MM
SHEET NO. 18 of 22

WARNING- IT IS A VIOLATION OF NEW YORK EDUCATIONAL LAW, SECTION 7209.2, FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER THIS DOCUMENT IN ANY WAY. IF ALTERED, THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF NEW YORK EDUCATIONAL LAW, SECTION 7209.2

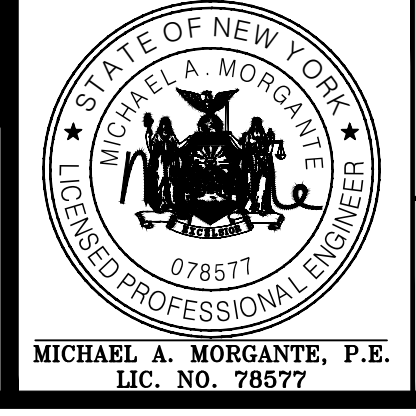
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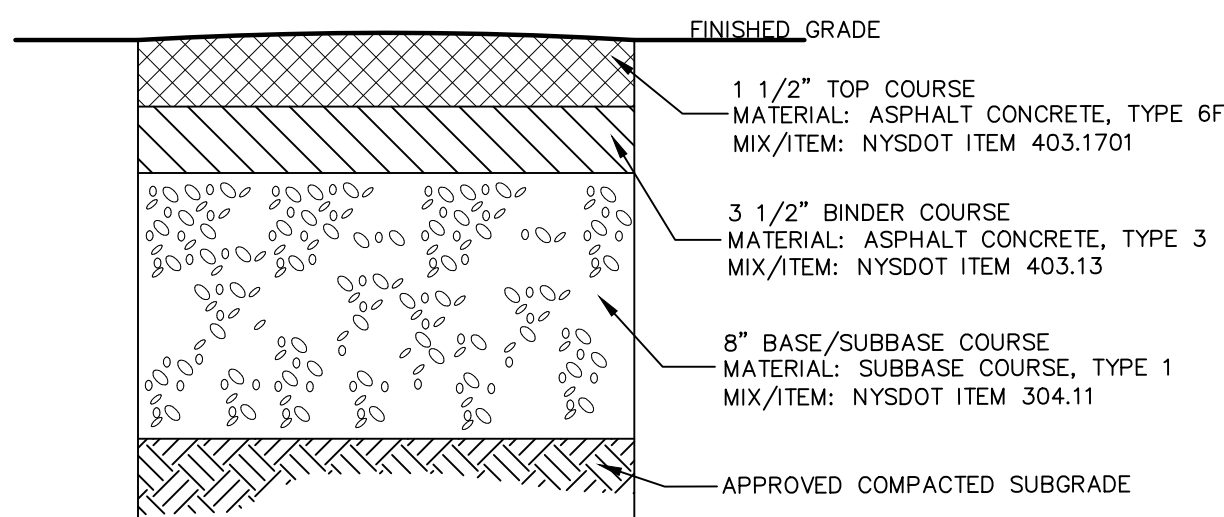
100' NY MUST BE CONTACTED PRIOR TO ANY EXCAVATION OR REMEDIATION

TURNING DIAGRAMS
SCALE: 1"=30'



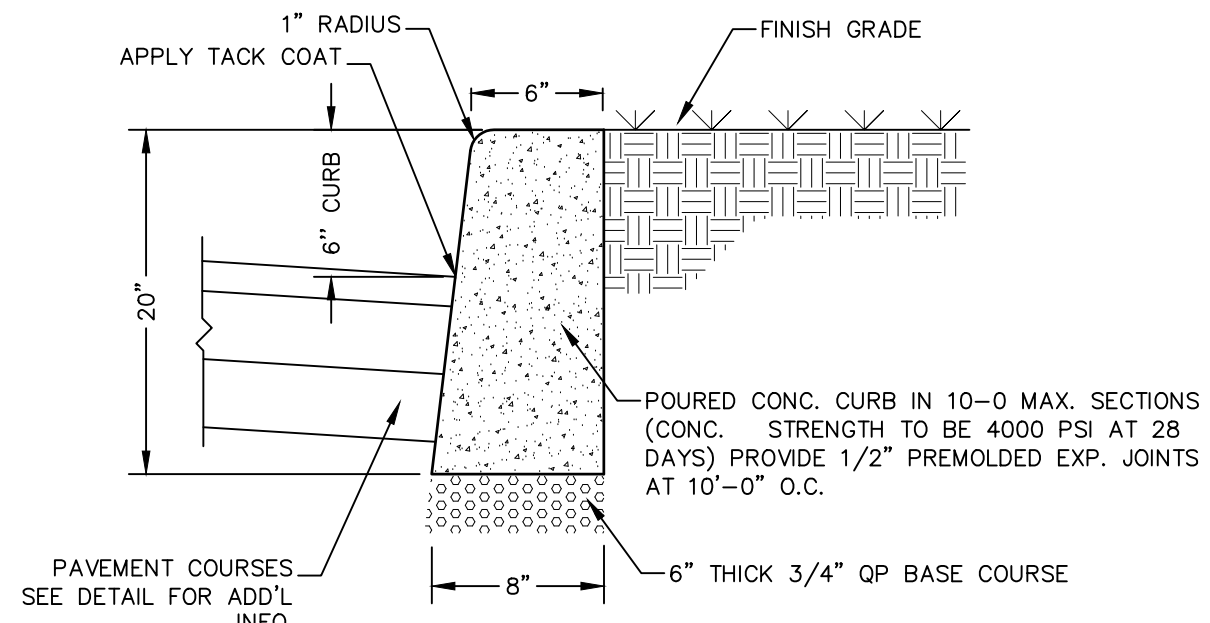
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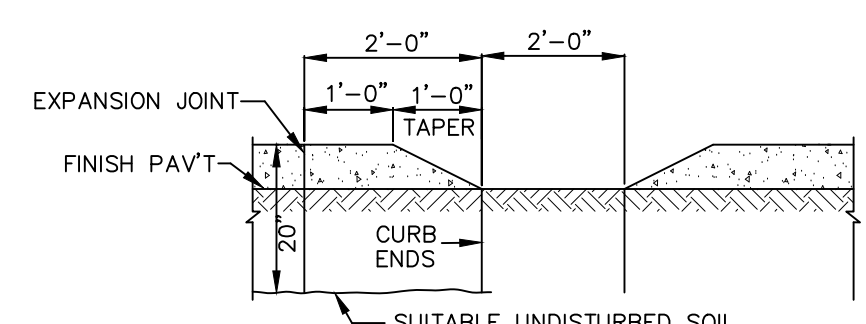


NOTES:
 1. MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYSDOT) STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, LATEST EDITION, AND ALL ADDENDA THERETO.
 2. SUBBASE MATERIAL SHALL CONFORM WITH SECTION 304 - SUBBASE COURSE OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS AND THE TYPE CALLED OUT IN THESE DRAWINGS.
 3. HOT MIX ASPHALT (HMA) PAVEMENT SHALL CONFORM WITH SECTION 400 HOT MIX ASPHALT OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS AND THE TYPE CALLED OUT IN THESE DRAWINGS. ALTHOUGH SECTION 400 IN ITS ENTIRETY IS REFERENCED, THE HOT MIX ASPHALT (HMA) PAVEMENT(S) SPECIFIED FOR T.L.-LUS CONTRACT SHALL BE AS SPECIFIED UNDER SECTION 402-HOT MIX ASPHALT (HMA) PAVEMENTS.
 4. TACK COAT SPECIFIED OR CALLED OUT IN THESE DRAWINGS OR REQUIRED BY THE REFERENCED SPECIFICATIONS SHALL CONFORM WITH SECTION 407-TACK COAT OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS.
 5. WHERE IT IS NECESSARY TO PLACE FILL FOR PURPOSES OF BRINGING THE SUBGRADE ELEVATION UP TO A SPECIFIED GRADE, THE FILL MATERIAL PLACED SHALL BE IN CONFORMANCE WITH SECTION 203-EXCAVATION AND EMBANKMENT OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS.
 6. THICKNESS INDICATED REFER TO COMPACTED MEASURE.

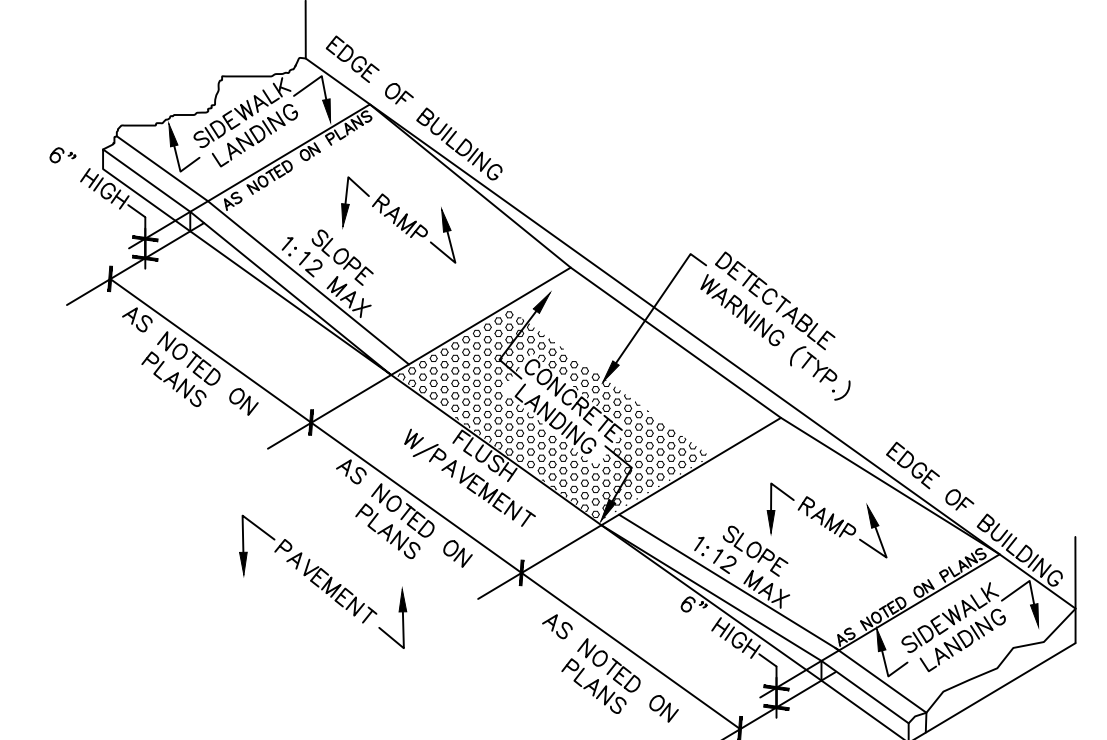
TYPICAL ASPHALT DETAIL FOR DRIVEWAY & PARKING AREAS
NOT TO SCALE



CONCRETE CURB DETAIL
NOT TO SCALE

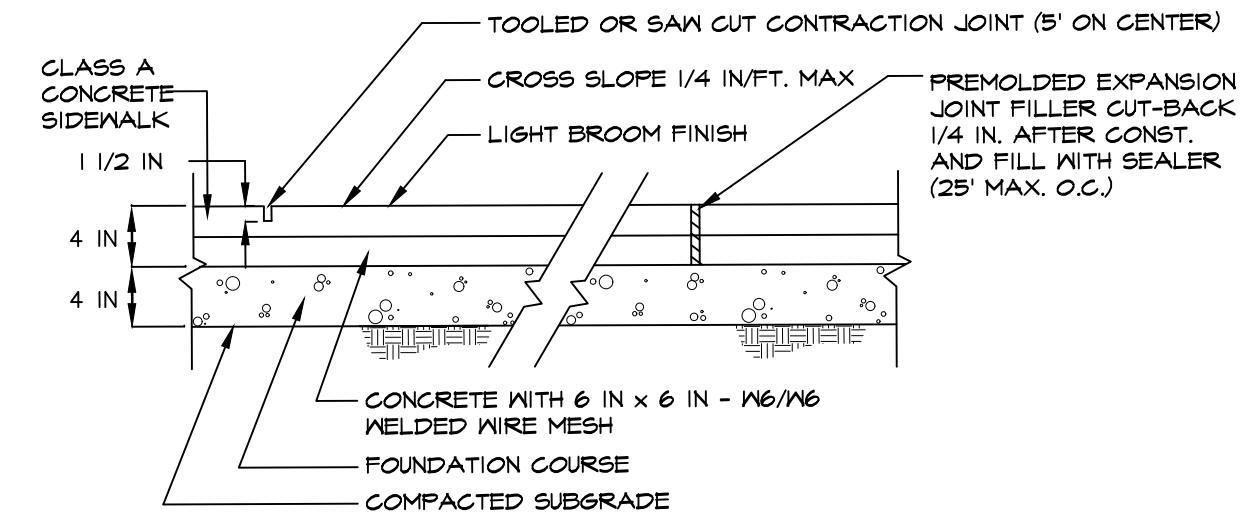


CURB KNOCKOUT FOR DRAINAGE
NOT TO SCALE

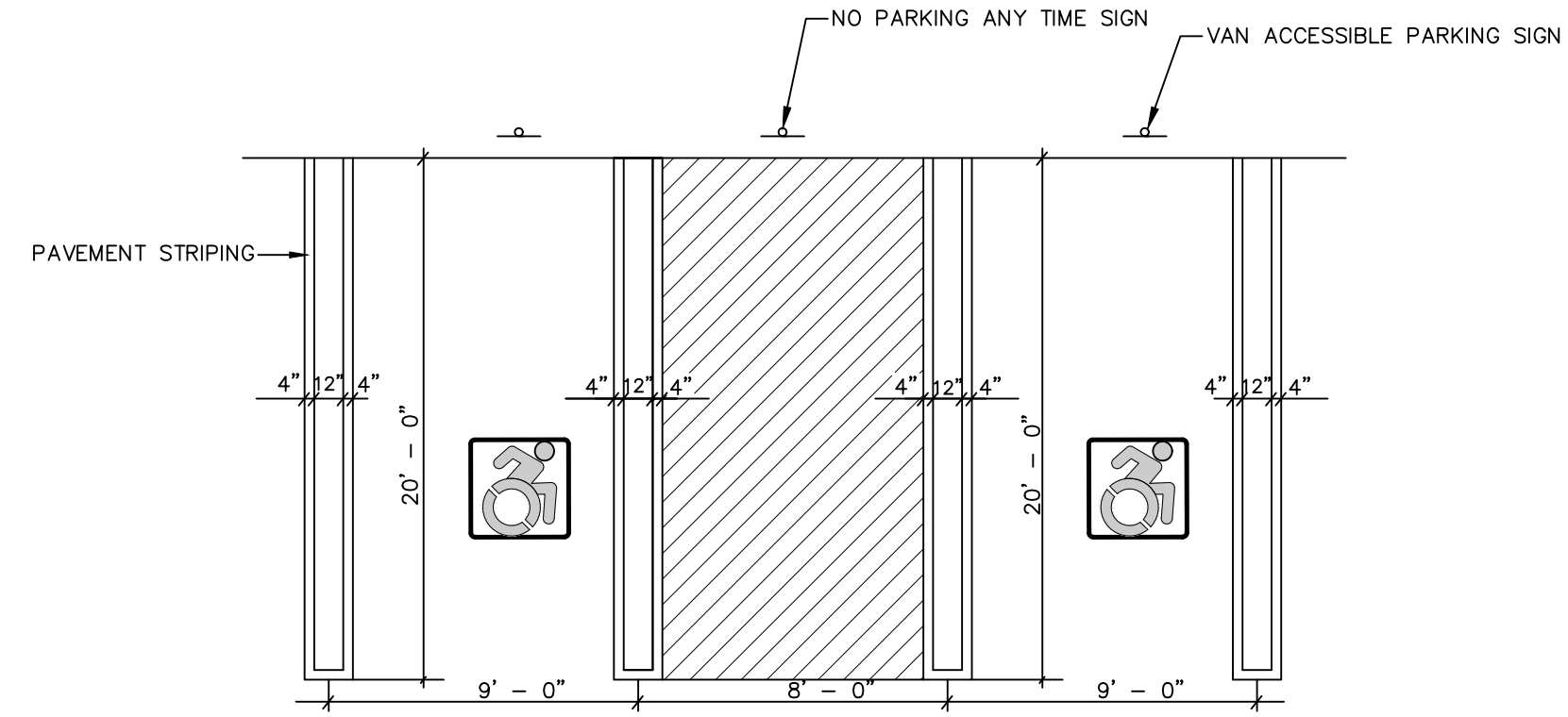


NOTES:
 1. ALL CROSS-SLOPES SHALL BE 1:50 OR LESS.
 2. ALL RUNNING SLOPES LEADING TO ACCESSIBLE LANDING SHALL NOT EXCEED 1:20.
 3. SIDEWALK LANDINGS SHALL BE 5'x5' MIN.
 4. ENTRANCE TO BUILDING SHALL HAVE A 5'x5' CLEAR AREA WHEN DOORS ARE OPEN.
 5. DETECTABLE WARNING STRIP TO CONTRAST VISUALLY WITH ADJOINING SURFACES EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT.
 THE CONTRACTOR IS REQUIRED TO CONFORM TO THE AMERICANS WITH DISABILITIES ACT (ADA) DETAILS, SPECIFICATIONS, AND STANDARDS WHICH MAY SUPERCEDE THE DETAILS SHOWN.

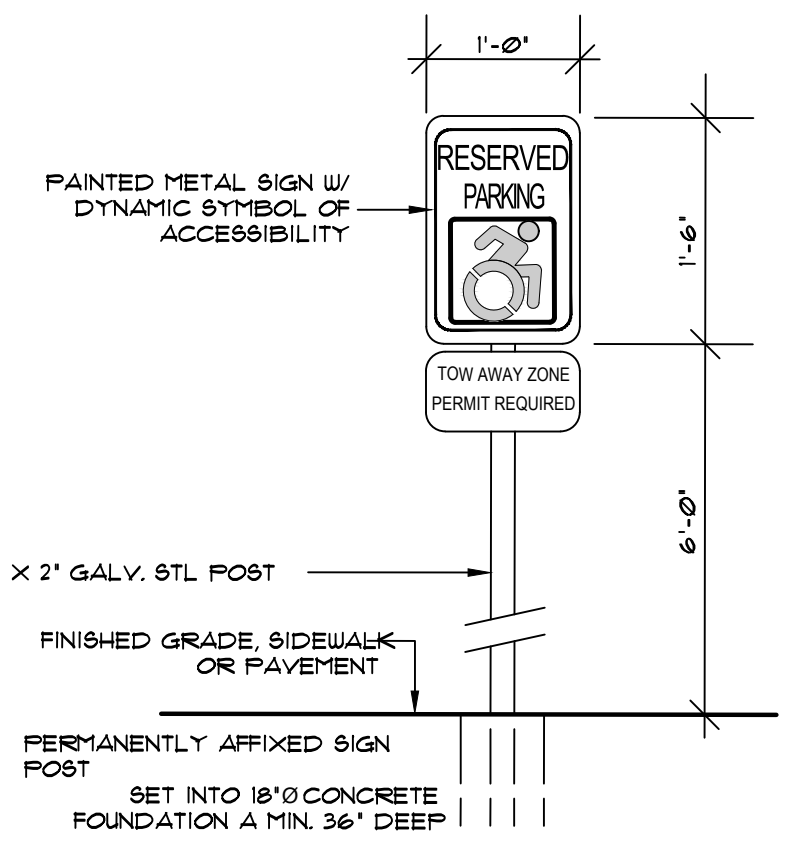
IN-LINE ACCESSIBLE RAMP
NOT TO SCALE



TYPICAL SIDEWALK SECTION

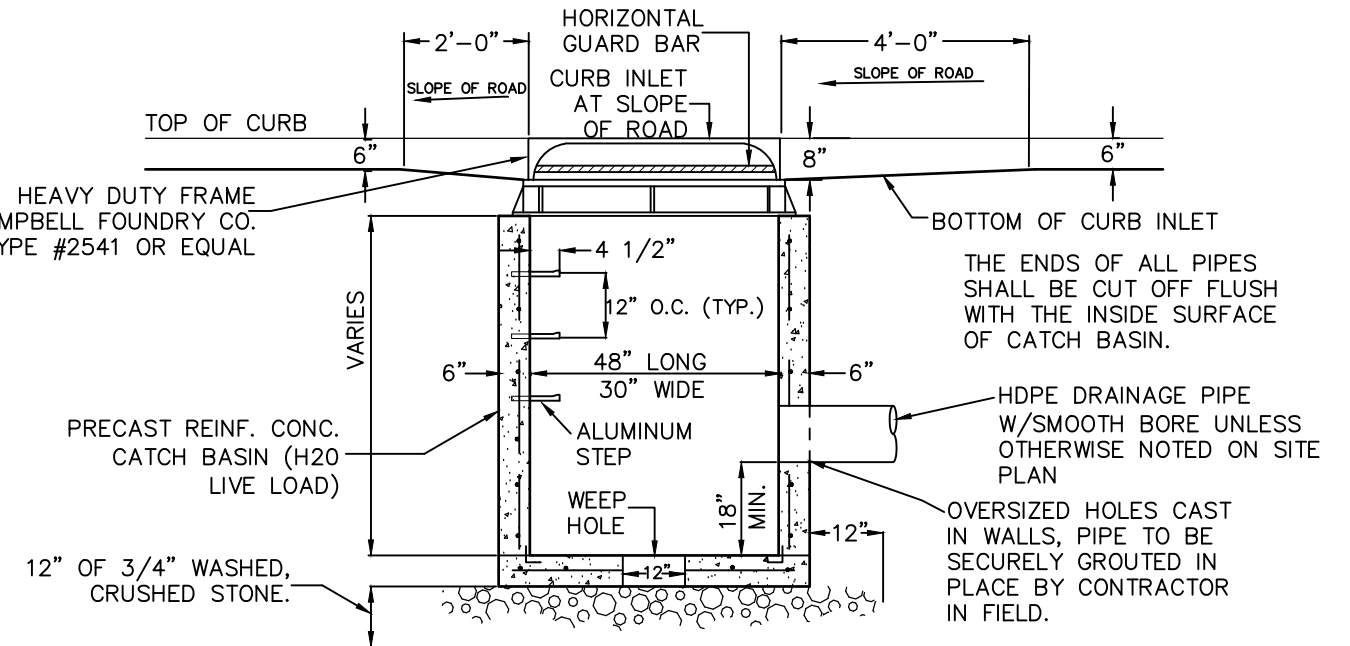


ACCESSIBLE PARKING SPACE & STRIPING DETAIL
NOT TO SCALE



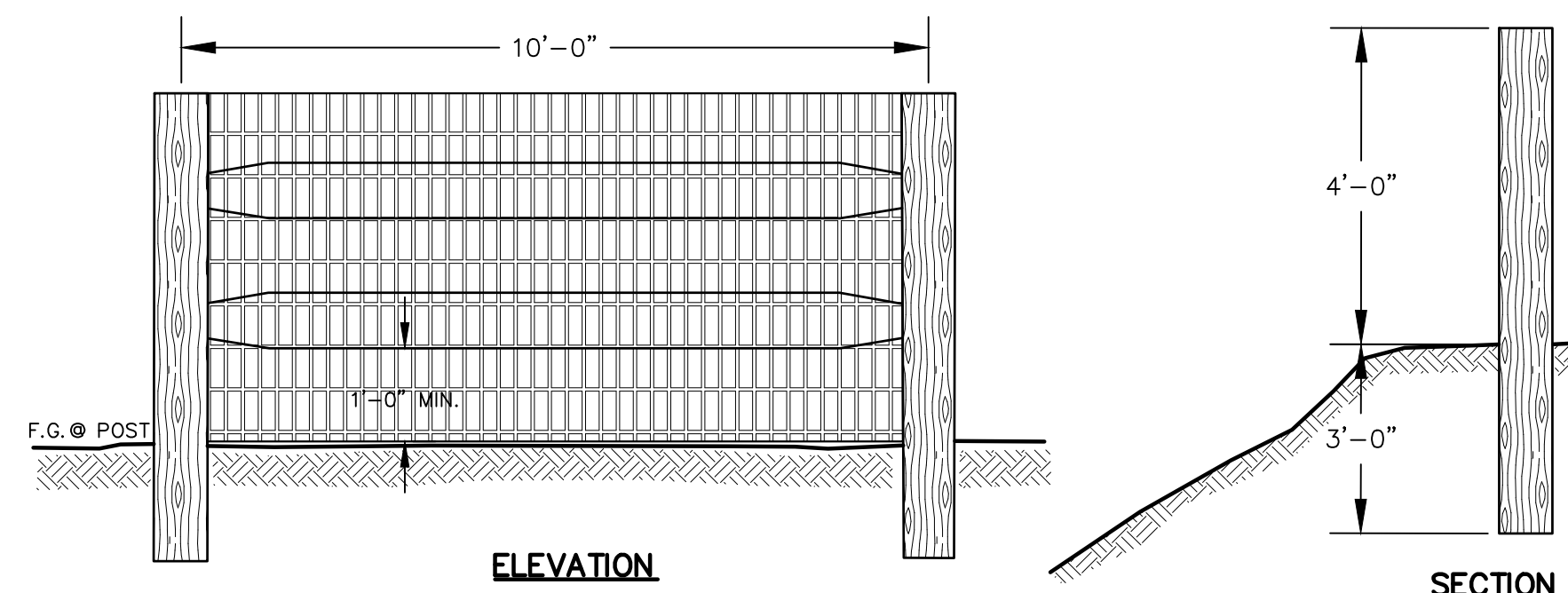
ACCESSIBLE PARKING SIGN
NOT TO SCALE

NOTES:
 1. ALL SLOPES WITHIN THE HANDICAP PARKING AND LOADING AREAS SHALL BE 1:50 OR LESS.
 2. ALL RUNNING SLOPES LEADING TO ACCESSIBLE PARKING SHALL NOT EXCEED 1:20.
 3. ACCESSIBLE AISLE STRIPING SPACED 2' O.C. AT A 45° ANGLE.
 4. UTILIZE BLUE & WHITE EPOXY RESIN DYNAMIC SYMBOL OF ACCESSIBILITY.
 5. STRIPED LOADING AND UNLOADING AREA: 60' MIN. OR 96' MIN. FOR VANS.

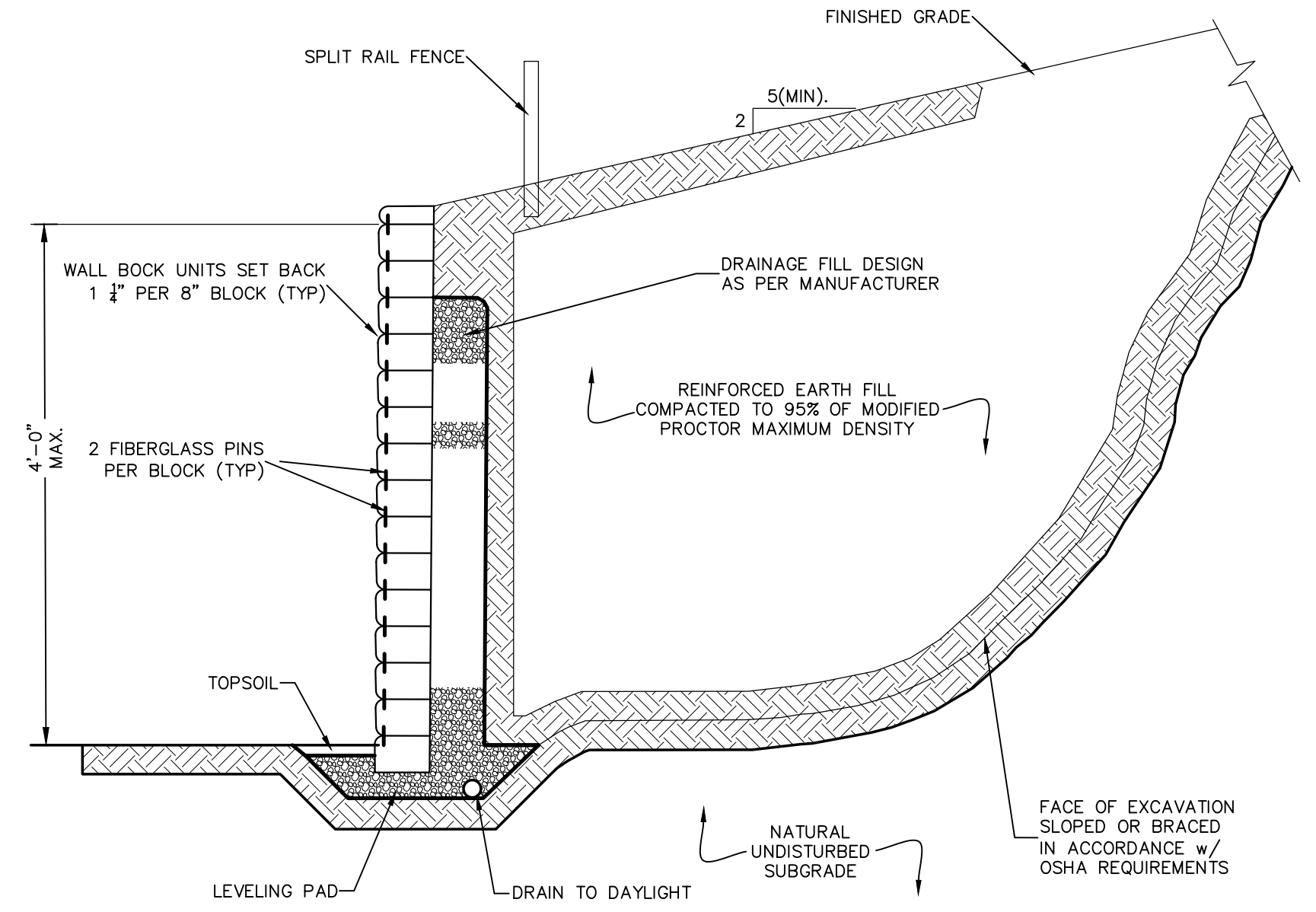


CURB INLET-CATCH BASIN
NOT TO SCALE

NOTES:
 1. RETAINER GLANDS ARE REQUIRED ON ALL FITTINGS IN ADDITION TO THE RODS AND THRUST BLOCKS.
 2. ALL UTILITY TRENCHES WITHIN PAVED AREAS SHALL BE BACKFILLED FULL DEPTH WITH RUN-OF-BANK GRAVEL. ALL UTILITIES TO BE DEDICATED TO THE TOWN SHALL MEET TOWN OF WALLKILL SPECIFICATIONS.

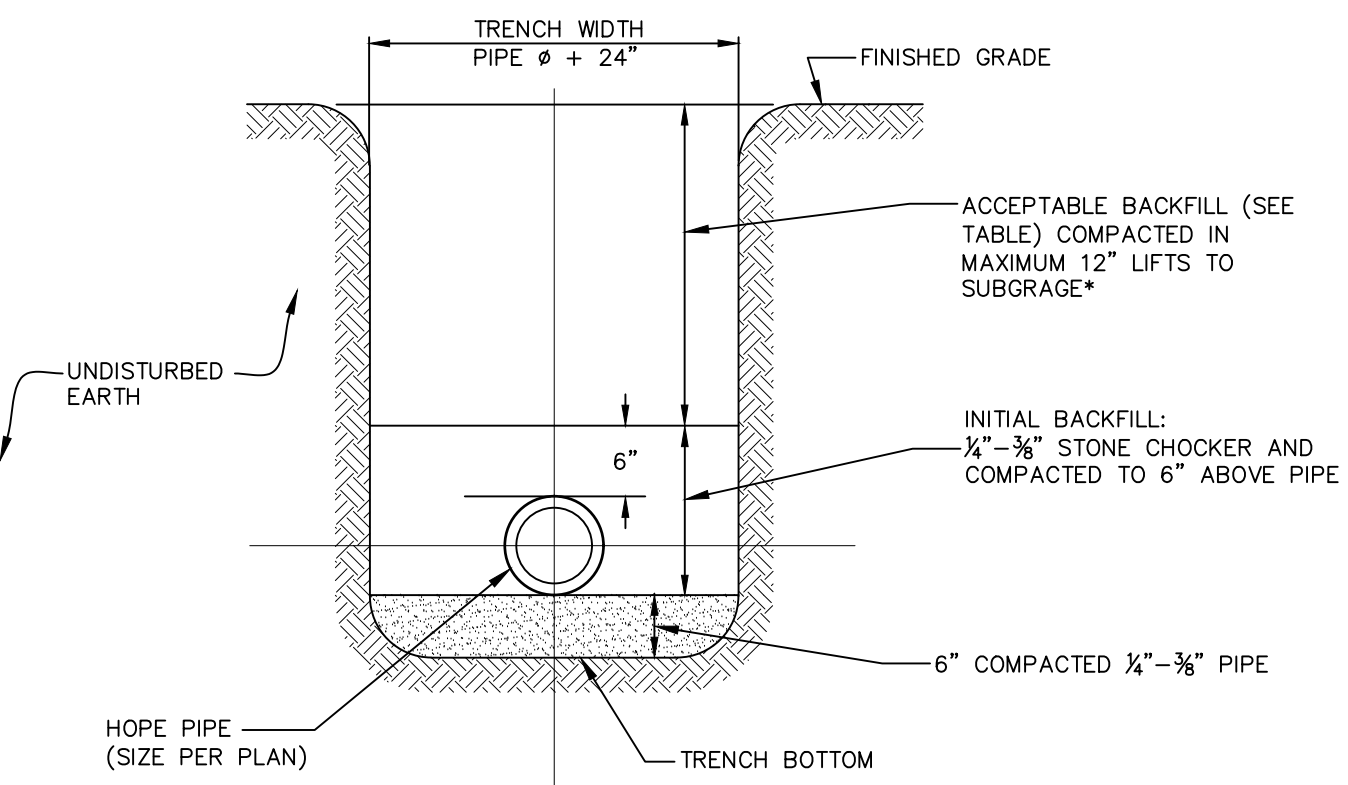


SPLIT POST FENCE DETAIL
NOT TO SCALE



TYPICAL MSE RETAINING WALL
NOT TO SCALE

NOTES:
 1. PROPOSED KEYSTONE KS HALF CENTURY RETAINING WALL SHALL BE DESIGNED AS PER THE MANUFACTURER.
 2. FENCING SHALL BE INSTALLED AS SHOWN ON THE PLANS, IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 3. COLORS TO MATCH FOUNDATION STONE.
 4. FOR WALLS OVER 4'-0\"/>



ACCEPTABLE BACKFILL MATERIAL & COMPACTION REQUIREMENTS				
DESCRIPTION	SOIL CLASSIFICATION			MINIMUM STANDARD PROCTOR DENSITY %
	ASTM D2321	ASTM 2457	AASHTO M43	
GRADED OR CRUSHED, CRUSHED STONE, GRAVEL	CLASS I	-	5	DUMPED
SAND, GRAVELS AND GRAVEL/SAND MIXTURES; LITTLE OR NO FINES	CLASS II	GW	57	85%
		GP, SW, SP	6	
SILTY OR CLAYEY GRAVELS, GRAVEL/SAND/SILT OR GRAVELAND CLAY MIXTURES; SILTY OR CLAYEY SANDS, SAND/CLAY OR SAND/SILT MIXTURES	CLASS III	GM	66	90%
		GC		
		SM, SC		

NOTE:
 INORGANIC SILTS, CLAYS, AND OTHER CLASS IV MATERIAL SHALL NOT PERMITTED. *BACKFILL SHALL CONTAIN NO STONES OVER 6\"/>

STORM SEWER TRENCH CROSS SECTION
NOT TO SCALE

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ONLY MAPS WITH EMBOSSED SEALS ARE GENUINE COPIES OF THE ORIGINAL WORK AND OPINION. MAPS NOT BEARING EMBOSSED SEALS SHOULD NOT BE RELIED UPON SINCE OTHER THAN EMBOSSED-SEAL COPIES MAY CONTAIN UNAUTHORIZED AND UNDETECTABLE MODIFICATIONS, DELETIONS, ADDITIONS AND CHANGES.

YOU MUST BE CONTACTED PRIOR TO ANY EXCAVATION OR DEMOLITION

REV.	BY	DATE	DESCRIPTION
12	MM	11-4-24	SUBDIVISION PLAN PREPARATION
11	MM	9-27-24	SEDIMENT BASIN REVISION
10	MM	3-11-24	FINAL ADS DESIGN & GAS UTILITY LOCATION ADDED
9	MM	3-4-24	FINAL ADS SHOP DRAWING DESIGN ADDED
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3	MM	11-30-23	TRANSFORMER LOCATION ADDED
2	MM	5-23-23	SWPPP REVISIONS
1	MM	8-15-22	PREPARATION OF PRELIMINARY PLANS

THIS SHEET IS NOT VALID WITHOUT ALL OF THE SHEETS THAT COMPRISE THE SET

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AMENDED SITE PLAN & SUBDIVISION FOR BAILIE LANE ESTATES LLC
 VILLAGE OF SOUTH BLOOMING GROVE
 ORANGE COUNTY, NEW YORK

JOB#: 22-013
 SCALE: AS NOTED
 DATE: 6/28/22
 DRAWN: MM
 CHECKED: MM
 SHEET NO. 19 of 22

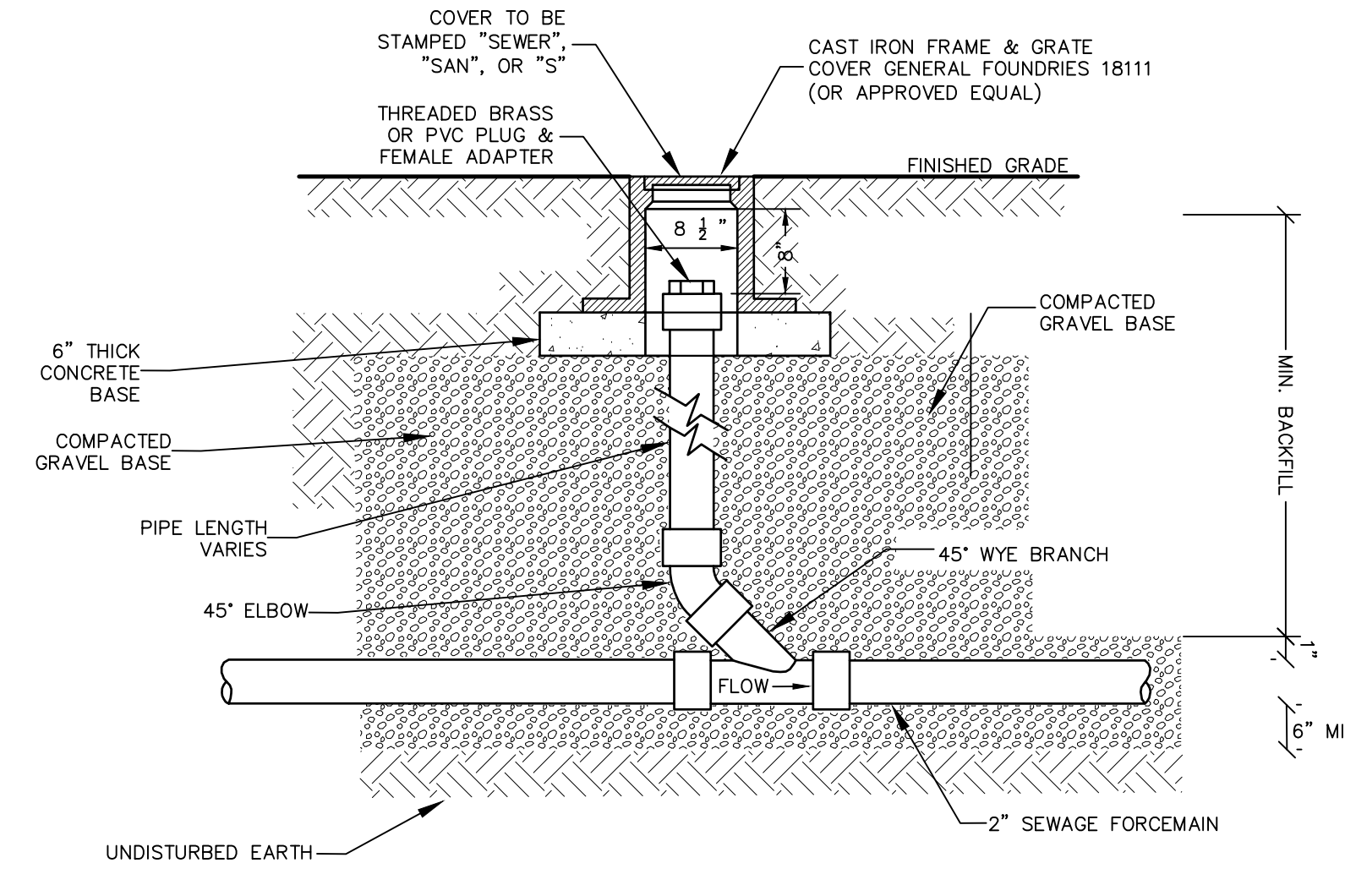
CONSTRUCTION DETAILS

SEWER NOTES:

- UNDERGROUND UTILITIES SHOWN HEREON ARE APPROXIMATE, THEIR ACCURACY OR COMPLETENESS ARE NOT GUARANTEED BY THE ENGINEER. MARK OUTS FROM UTILITY COMPANIES AND FIELD CONFIRMATION BY CONTRACTOR MUST BE MADE PRIOR TO CONSTRUCTION SO THAT DISTURBANCE OR DISRUPTION TO THESE UTILITIES WILL BE AVOIDED. ALL EXISTING UTILITIES ARE TO BE COORDINATED WITH THE APPROPRIATE UTILITY FOR CONNECTION/DISCONNECTION WHERE NECESSARY.
- THE CONTRACTOR SHALL DETERMINE THE LOCATION AND DEPTH OF THE EXISTING UTILITY TO WHICH THE CONNECTION IS BEING MADE BEFORE LAYING PIPE, CONDUIT, ETC. DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER. IN CASES WHERE THE CONSTRUCTION OF ITEMS MEET EXISTING STRUCTURES, SUCH AS CURBS, PAVEMENT, SIDEWALK UTILITIES, ETC. THE CONTRACTOR OR SURVEYOR STAKING SUCH ITEMS SHALL VERIFY THE ELEVATION LOCATION OF THE EXISTING FEATURE PRIOR TO CONSTRUCTION. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
- THE CONTRACTOR SHALL EXERCISE EXTREME CARE IN CONDUCTING EXCAVATIONS TO ESTABLISH LOCATIONS AND DEPTHS OF EXISTING UNDERGROUND UTILITIES, FACILITIES AND STRUCTURES. THE CONTRACTOR SHALL HAND EXCAVATE WHERE APPROPRIATE.
- SANITARY SEWER SHALL BE SEPARATED FROM THE WATER MAINS BY A DISTANCE OF AT LEAST 10 FEET HORIZONTALLY OR 18 INCHES VERTICALLY IF HORIZONTAL SEPARATION IS NOT POSSIBLE.
- ALL SANITARY SEWER PIPE LENGTHS SHOWN ARE FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.
- ALL EQUIPMENT, MATERIALS, ETC. SHALL BE CONFINED TO THE PUBLIC RIGHTS OF WAY OR VILLAGE OF SOUTH BLOOMING GROVE EASEMENTS. NO ENCROACHMENT ONTO ADJACENT PROPERTIES IS PERMITTED.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION SITE SAFETY. ALL SAFETY PRECAUTIONS MUST BE UNDERTAKEN AND MAINTAINED AS REQUIRED BY LOCAL, STATE AND FEDERAL CODES.
- THE SITE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING COMPLIANCE WITH THE NYSDEC AND VILLAGE OF SOUTH BLOOMING GROVE REGULATIONS REGARDING STORM WATER POLLUTION PREVENTION.
- THE SITE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND PROTECTION OF TRAFFIC (MPT WHEN WORKING ON OR NEAR PUBLIC ROADS. MPT MEASURES MUST BE COORDINATED WITH THE APPROPRIATE HIGHWAY OFFICIALS (TOWN, VILLAGE, AND NYSOT) HAVING JURISDICTION OVER EACH PARTICULAR ROADWAY.
- IN THE EVENT THAT THE CONTRACTOR OR ITS SUBCONTRACTORS DAMAGE ANY EXISTING UTILITY, FACILITY OR STRUCTURE, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER OF THE DAMAGED PROPERTY AND VILLAGE OF SOUTH BLOOMING GROVE.
- ALL STRUCTURES AND SURFACES DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO ITS PRE-CONSTRUCTION OR BETTER CONDITION.
- THE CONTRACTOR SHALL REVIEW THE SITE CONDITIONS WITH RESPECT TO DRAINAGE AND GENERAL SOIL CONDITIONS IN THE AREA AND PLAN ITS WORK IN SUCH A MANNER TO WORK EFFICIENTLY AND SAFELY. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE CONTROL OF SURFACE AND GROUNDWATER IN THE CONSTRUCTION AREA.
- THE CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS FOR STAGING AREAS FOR MATERIALS AND EQUIPMENT.
- THE CONTRACTOR SHALL ARRANGE FOR A SUITABLE AREA FOR THE STORAGE AND DISPOSAL OF EXCESS EXCAVATED SOIL MATERIALS. THE CONTRACTOR IS RESPONSIBLE FOR ANY PERMITS AND FEES ASSOCIATED WITH THE PROPER DISPOSAL OF SOIL AND OTHER MATERIALS FROM THE PROJECT.
- THE MORE STRICT OF ANY REQUIREMENT, CODE, RULE, REGULATION AND LAW ESTABLISHED BY THE VILLAGE OF SOUTH BLOOMING GROVE OR OTHER GOVERNMENTAL AGENCY, INCLUDING BUT NOT LIMITED TO THE NEW YORK STATE DEPARTMENT OF HEALTH, NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION, UNITED STATES ARMY CORP OF ENGINEERS, UNITED STATES ENVIRONMENTAL PROTECTION AGENCY, UNITED STATES OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION AND NEW YORK STATE DEPARTMENT OF LABOR SHALL APPLY TO THE PROJECT. MATERIALS OF CONSTRUCTION AND APPURTENANCES AND METHODS FOR EXCAVATING, PIPE PLACEMENT, JOINTING, TESTING AND TRENCH BACKFILLING SHALL BE COMPLIED WITH DURING ALL PHASES OF CONSTRUCTION.
- ALL SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS THAT ARE APPROVED BY THE VILLAGE OF SOUTH BLOOMING GROVE. ANY DEVIATION FROM THE APPROVED PLANS AND/OR SPECIFICATIONS SHALL REQUIRE REVIEW AND APPROVAL BY THE VILLAGE OF SOUTH BLOOMING GROVE. THE CONTRACTOR SHALL BE RESPONSIBLE TO NOTIFY THE PROJECT ENGINEER AND THE VILLAGE OF SOUTH BLOOMING GROVE OF ANY PLANNED DEVIATION(S) FROM THE APPROVED PLANS AND/OR SPECIFICATIONS.
- FITTINGS SHALL BE STANDARD LENGTH.
- PIPE JOINTS SHALL BE STANDARD LENGTH.
- CONNECTION TO EXISTING SANITARY MANHOLE SHALL BE CORE BORED FOR A KOR-N-SEAL.

SANITARY SEWER NOTES:

- NOT FOR NYS COUNTY DEPARTMENT OF HEALTH REVIEW OR APPROVAL
- FITTINGS SHALL BE STANDARD LENGTH.
 - PIPE JOINTS SHALL BE STANDARD LENGTH.
 - 3" CONNECTION TO EXISTING SANITARY MANHOLE SHALL BE CORE BORED FOR A KOR-N-SEAL.



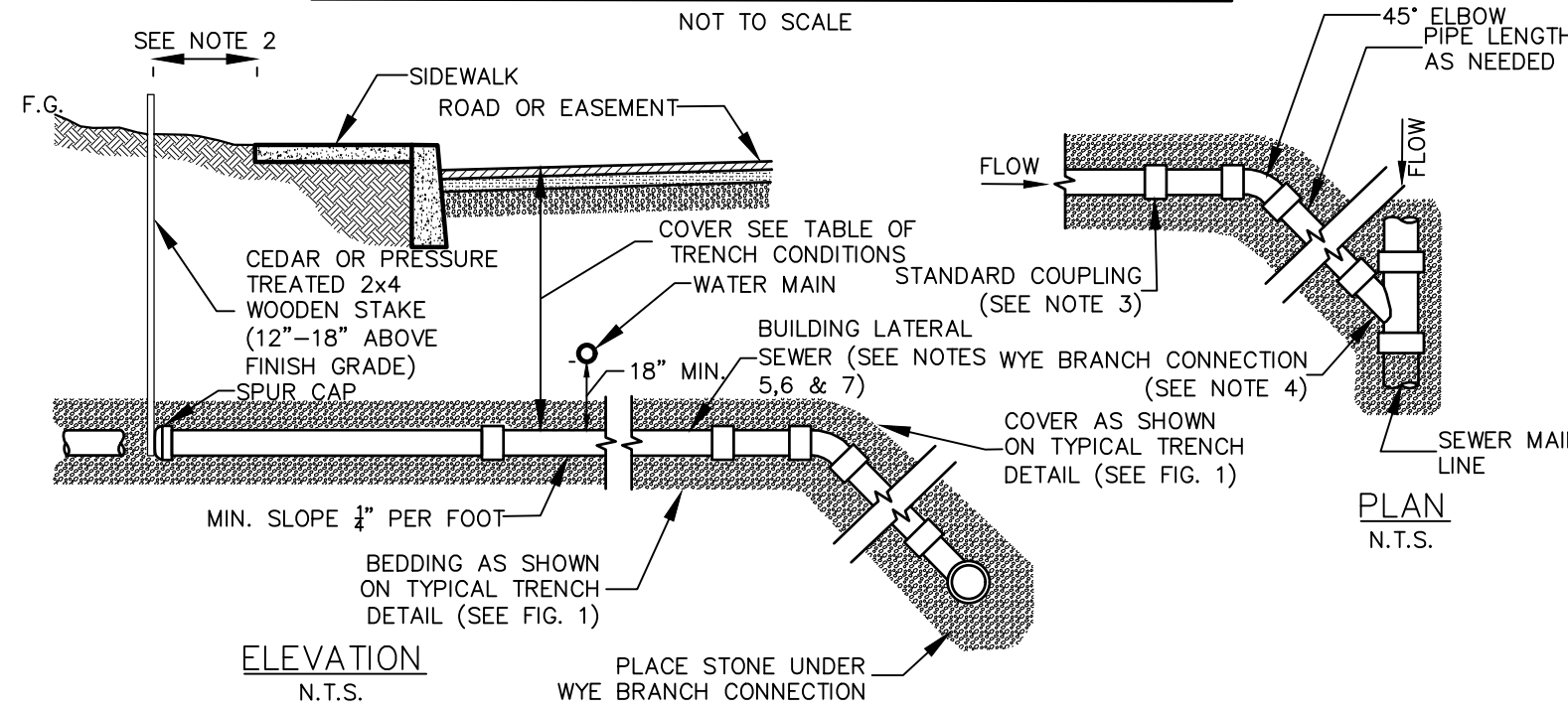
- NOTES:
- CLEANOUT LOCATED IN A ROAD, DRIVEWAY OR PARKING AREA SHALL REQUIRE A CAMELL FOUNDRY #4164 CAST IRON FRAME AND COVER. (OR APPROVED EQUAL).

BUILDING LATERAL SEWER CLEANOUT (C.O.)

NOT TO SCALE

BUILDING LATERAL SEWER CONNECTION

NOT TO SCALE



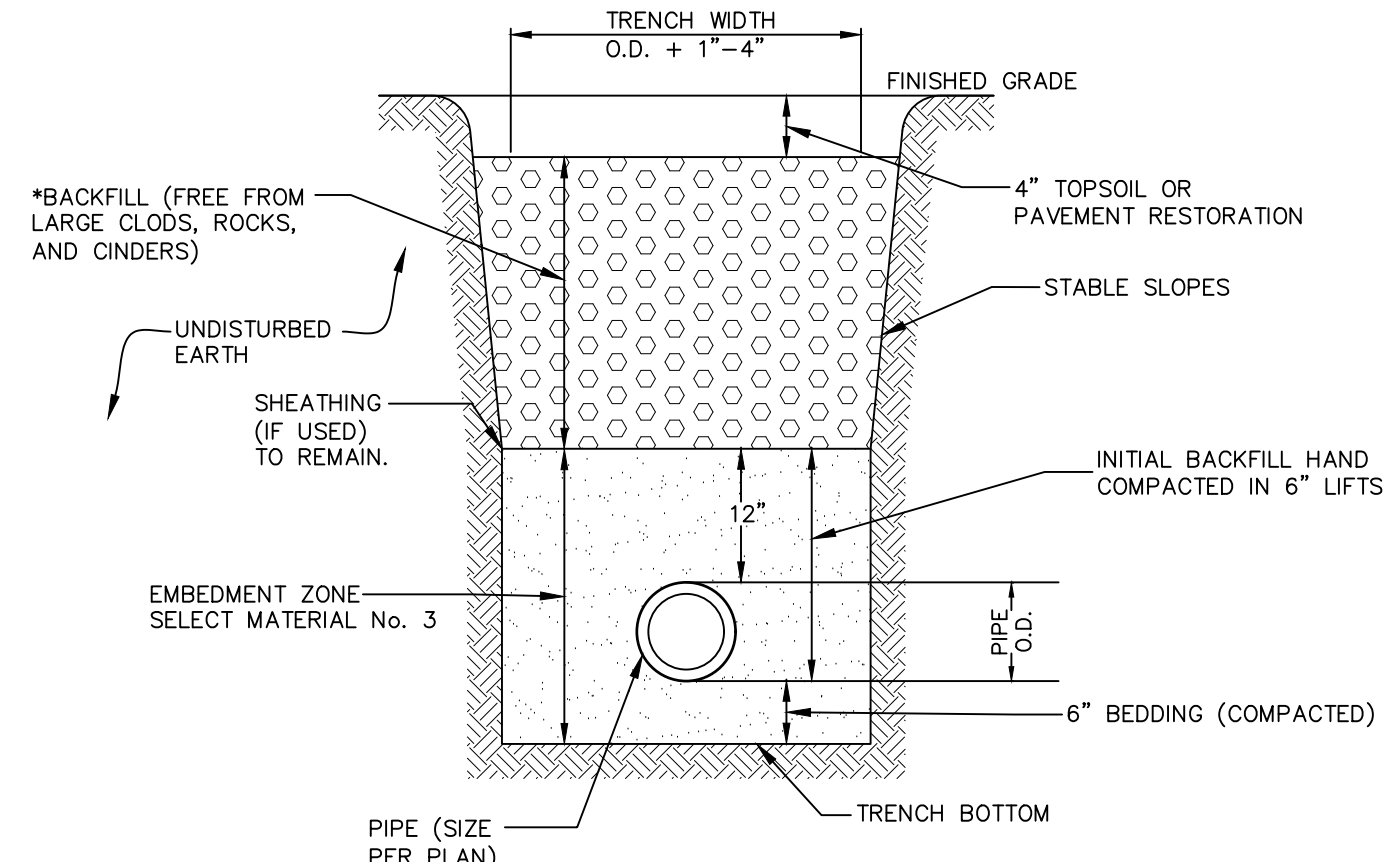
SANITARY SEWER SPECIFICATIONS (FOR BUILDING LATERAL SEWERS AND SEWER MAIN LINE):

- REQUIRED MAIN LINE SEWER (OR APPROVED EQUAL):
 - ABS-TRUSS PIPE:
 - PIPE: STAMPED ASTM D2680
 - FITTINGS: STAMPED ASTM D2680
 - JOINTS: SOLVENT WELD, ASTM D2235
 - PVC-TRUSS PIPE:
 - PIPE: STAMPED ASTM D2680
 - FITTINGS: STAMPED ASTM D2680
 - JOINTS: SOLVENT WELD, ASTM D2564 OR ELASTOMERIC (GASKET)
 - PVC - SDR 26 HEAVY WALL PIPE
 - PIPE (8" - 15" DIAMETER): STAMPED ASTM D3034, PIPE (18" AND GREATER DIAMETER): STAMPED ASTM F679.
 - FITTINGS: STAMPED ASTM D3034 OR F679.
 - JOINTS: SOLVENT WELD ASTM D2564 OR ELASTOMERIC GASKET.
 - PVC - SDR 35 SOLID WALL PIPE:
 - PIPE (8"-15" DIAMETER): STAMPED ASTM D3034, PIPE (18" AND GREATER DIAMETER): STAMPED ASTM F679.
 - FITTINGS: STAMPED ASTM D3034 OR ASTM F679.
 - JOINTS: BELL AND SPIGOT WITH ELASTOMERIC GASKET ASTM D3034 OR SOLVENT WELD ASTM D2564.
- REQUIRED 4" OR 6" (AS APPROVED) BUILDING LATERAL SEWER (OR APPROVED EQUAL):
 - PVC - SDR 35 SOLID WALL PIPE:
 - PIPE: STAMPED ASTM D3034 AND SDR 35.
 - FITTINGS: STAMPED SDR 35 AND ASTM D3034.
 - JOINTS: BELL AND SPIGOT WITH ELASTOMERIC GASKET ASTM D3034 OR SOLVENT WELD ASTM D2564.
 - SDR 26 HEAVY WALL PIPE:
 - PIPE: STAMPED ASTM D3034 AND SDR 26.
 - FITTINGS: STAMPED D3034 AND SDR 26.
 - JOINTS: BELL AND SPIGOT WITH ELASTOMERIC GASKET ASTM D3034 OR SOLVENT WELD ASTM D2564.
 - SDR 23.5 ABS SOLID WALL PIPE:
 - PIPE: STAMPED ASTM D2751 AND SDR 23.5
 - FITTINGS: STAMPED SDR 23.5 ASTM D2751
 - JOINTS: SOLVENT WELD, ASTM D2235
- OTHER REQUIRED PIPE MATERIALS FOR BUILDING LATERAL SEWERS AND SEWER MAIN LINE (OR APPROVED EQUAL):
 - CAST IRON, EXTRA HEAVY, COATED, HUB & PLAIN END, ASTM C-74 WITH ELASTOMERIC COMPRESSION GASKET (ASTM C-564)
 - DUCTILE IRON PIPE: CLASS 52, CEMENT LINED AND TAR COATED INSIDE AND OUT.

SPECIAL CONDITIONS FOR SHALLOW TRENCH CONDITIONS	
COVER	PIPE
LESS THAN 4'-0"	CLASS 52 DUCTILE IRON OR CAST IRON EXTRA HEAVY OR APPROVED EQUAL.

NOTES:

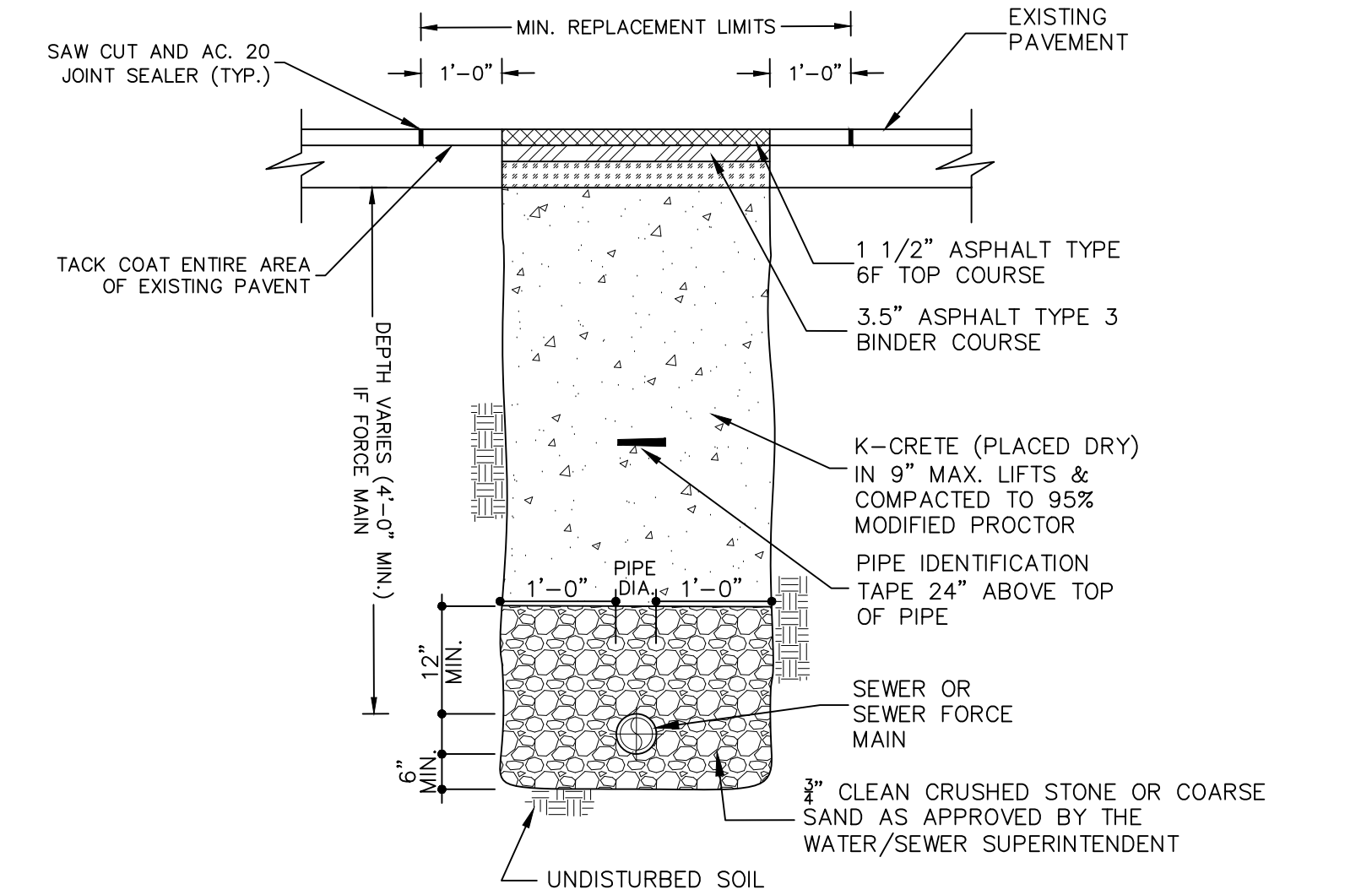
- ALL APPROVED BUILDING LATERAL SEWER PIPE MATERIAL FOR EACH CONNECTION MADE SHALL BE CONSTRUCTED FROM THE SAME MATERIAL.
- MINIMUM HORIZONTAL SEPARATION BETWEEN SPUR CAP AND SIDEWALK SHALL BE 2'-0". IN ALL CASES THE SPUR CAP LOCATION SHALL EXTEND A MINIMUM HORIZONTAL DISTANCE OF 2'-0" ONTO ALL BUILDING LOT PROPERTIES.
- TRANSITION BETWEEN DIFFERENT PIPE MATERIAL (AS APPROVED) SHALL BE MADE BY INSTALLING A TYPE 1, STYLE 62 DRESSER COUPLING OR DRESSER STYLE 262 HYMAX COUPLING (OR APPROVED EQUAL).
- WYE BRANCH CONNECTION SHALL BE A FITTING CONSTRUCTED SPECIFICALLY FOR THE INSTALLED MAIN LINE SEWER MATERIAL CLASS (OR APPROVED EQUAL).
- THE BUILDING LATERAL SEWER SHOWN FROM THE MAIN LINE SOURCE WYE BRANCH CONNECTION FITTING TO THE SPUR CAP SHALL MEET THE SPECIFICATIONS SHOWN FOR ii) BUILDING LATERAL SEWER.
- 4" BUILDING LATERAL SEWER MAY BE APPROVED FOR CONSTRUCTION OF SINGLE (1) AND TWO (2) FAMILY DWELLINGS ONLY. ALL OTHER BUILDING LATERAL SEWERS (INCLUDING ALL COMMERCIAL USES) SHALL BE 6" IN DIAMETER.
- EACH 6" BUILDING LATERAL SEWER SHALL PROVIDE SERVICE FOR NO MORE THAN TWELVE (12) EQUIVALENT LIVING UNITS, AS DETERMINED BY OCSO NO. 1, UNLESS A REQUESTED DEVIATION IS APPROVED IN WRITING BY OCSO NO.1.



- NOTE:
- BACKFILL TO BE COMPACTED IN 8" LIFTS WITH NO STONES OVER 6" IN ANY DIMENSION.
 - WITHIN ROADWAY AND PARKING LOT AREA, BACKFILL SHALL BE SELECT MATERIAL NO. 4 PLACED AND COMPACTED IN 6" LIFTS.

TRENCH CROSS SECTION

NOT TO SCALE



TYPICAL SEWER MAIN INSTALLATION/RESTORATION DETAIL IN STREET

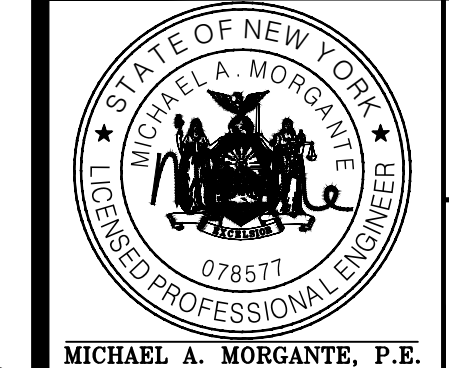
NOT TO SCALE

- NOTE:
- PAVEMENT AND SUBBASE MATERIAL SHALL AT A MINIMUM, MATCH THE EXISTING TYPES AND THICKNESSES FOUND WITHIN ANY TOWN, COUNTY OR STATE HIGHWAY, WHICHEVER IS GREATER.

REV.	BY	DATE	DESCRIPTION
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AMENDED SITE PLAN & SUBDIVISION FOR
BAILIE LANE ESTATES LLC
 VILLAGE OF SOUTH BLOOMING GROVE
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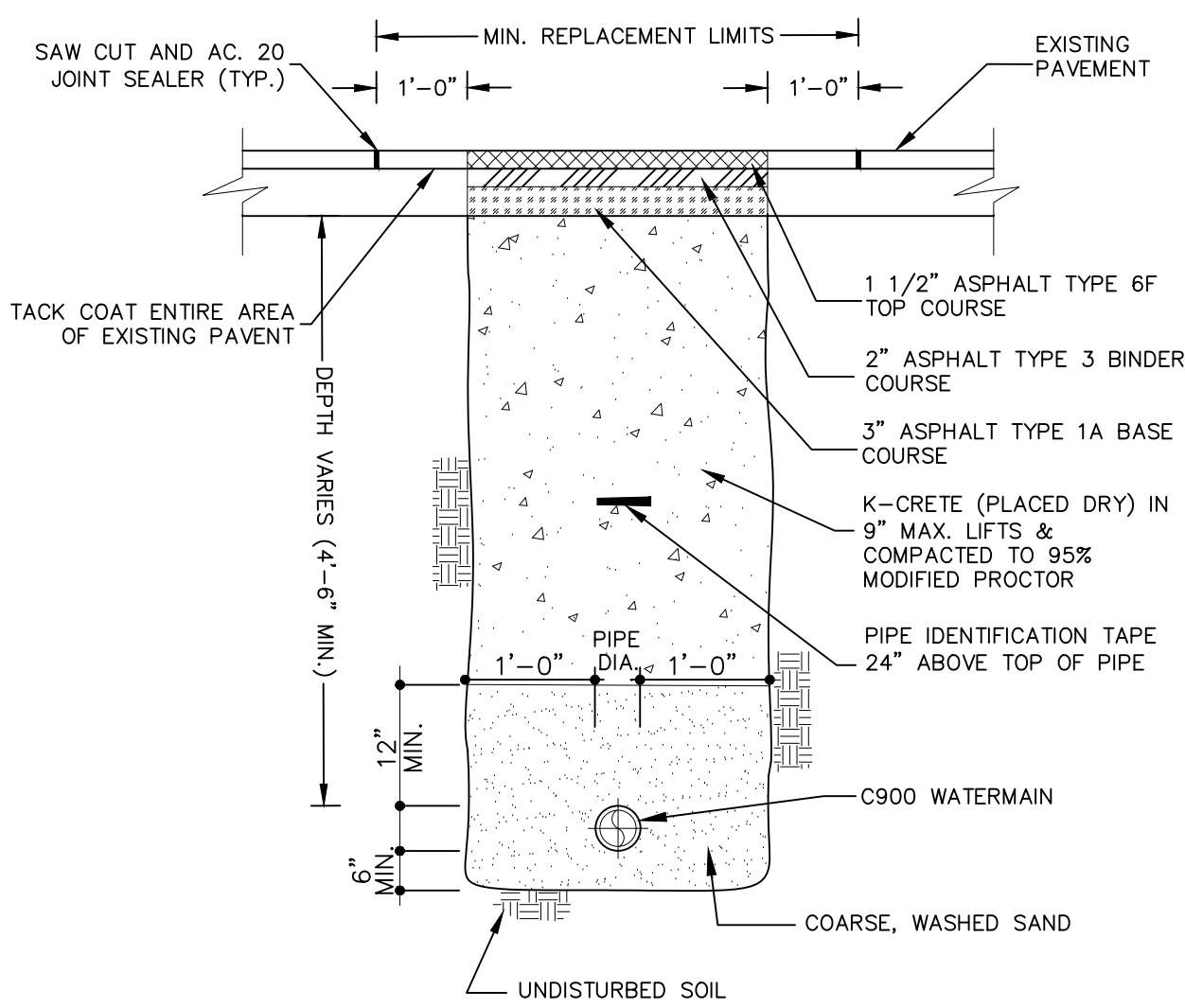
SEWAGE DISPOSAL DETAILS

JOB#: 22-013
 SCALE: AS NOTED
 DATE: 6/28/22
 DRAWN: MM
 CHECKED: MM
 SHEET NO. 20 of 22

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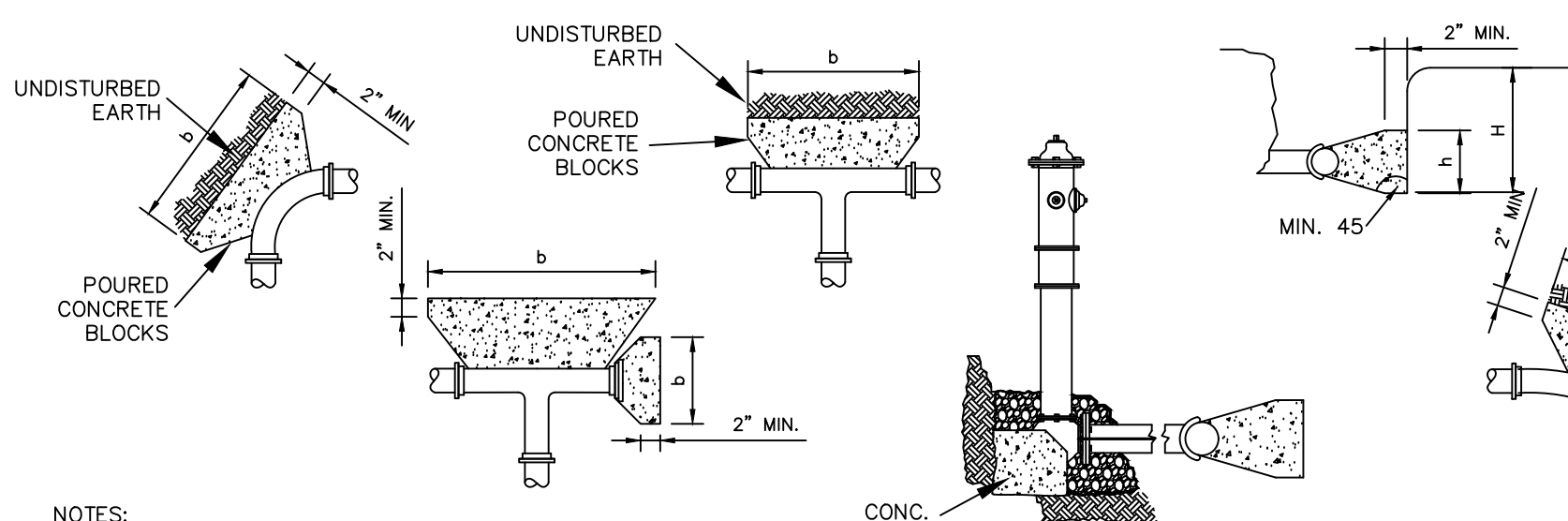
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10g NY MUST BE CONTACTED PRIOR TO ANY EXCAVATION OR DEMOLITION



TYPICAL WATER SERVICE INSTALLATION/RESTORATION DETAIL IN STREET
NOT TO SCALE

- NOTE:
1. PAVEMENT AND SUBBASE MATERIAL SHALL, AT A MINIMUM, MATCH THE EXISTING TYPES AND THICKNESSES FOUND WITHIN ANY TOWN, COUNTY OR STATE HIGHWAY, WHICHEVER IS GREATER.



- NOTES:
TO DETERMINE THRUST AT PRESSURES OTHER THAN 100 PSI, MULTIPLY THE THRUST OBTAINED IN THE TABLE BY THE RATIO OF THE PRESSURE TO 100.

$$\text{BEARING AREA (SF)} = \frac{\text{THRUST FORCE AT FITTING (LB.S)}}{\text{BEARING CAPACITY OF UNDISTURBED SOIL (LB.S/S.F)}}$$

$$\text{GRAVITY BLOCK SIZE (C.F.)} = \frac{\text{THRUST FORCE AT FITTING (LB.S)}}{\text{CONCRETE DENSITY 145 (LB.S/C.F.)}}$$

- NOTES:
1. PLACE 8 MIL. POLYETHYLENE BETWEEN CONCRETE AND FITTING (CONCRETE SHALL NOT INTERFERE WITH JOINT).
2. MINIMUM CONCRETE THICKNESS SHALL BE 12 INCHES.
3. THE HORIZONTAL DIMENSION (b) OF THE BEARING AREA SHALL BE BETWEEN 1.0 AND 2.0 TIMES THE VERTICAL DIMENSION (h). (h <= b <= 2h)
4. THE VERTICAL DIMENSION (h) OF THE BEARING AREA SHALL BE EQUAL TO ONE-HALF THE TOTAL DEPTH (H) TO THE BOTTOM OF THE THRUST BLOCK BUT NOT LESS THAN THE OUTSIDE DIAMETER (DO) OF THE FITTING (DO < h <= H/2).
5. THRUST BLOCK ORIENTATION SHALL BE SUCH THAT THE CENTER OF FITTING CORRESPONDS WITH THE CENTER OF THE THRUST BLOCK.
6. THE MINIMUM ALLOWABLE ANGLE (EITHER VERTICAL OR HORIZONTAL) SHALL BE 45 DEGREES.

NOM. PIPE DIA. (IN)	90 DEG BEND	45 DEG BEND	22 1/2 DEG BEND	11 1/4 DEG BEND
3	1,232	1,742	943	481
4	1,810	2,559	1,385	706
6	3,739	5,285	2,862	1,459
8	6,433	9,097	4,923	2,510
10	9,677	13,685	7,406	3,776
12	13,685	19,353	10,474	5,340
14	18,385	26,001	14,072	7,174
16	23,779	33,628	18,929	9,278
18	29,865	42,235	22,858	11,653
20	36,644	51,822	28,046	14,298
24	52,279	73,934	40,013	20,398
30	80,425	113,738	61,554	31,380
36	115,209	162,931	88,177	44,952
42	155,528	219,950	119,036	60,684
48	202,683	286,637	155,127	79,083
54	260,214	367,999	199,160	101,531
60	298,121	42,606	228,172	116,321
64	338,707	479,004	259,235	132,157

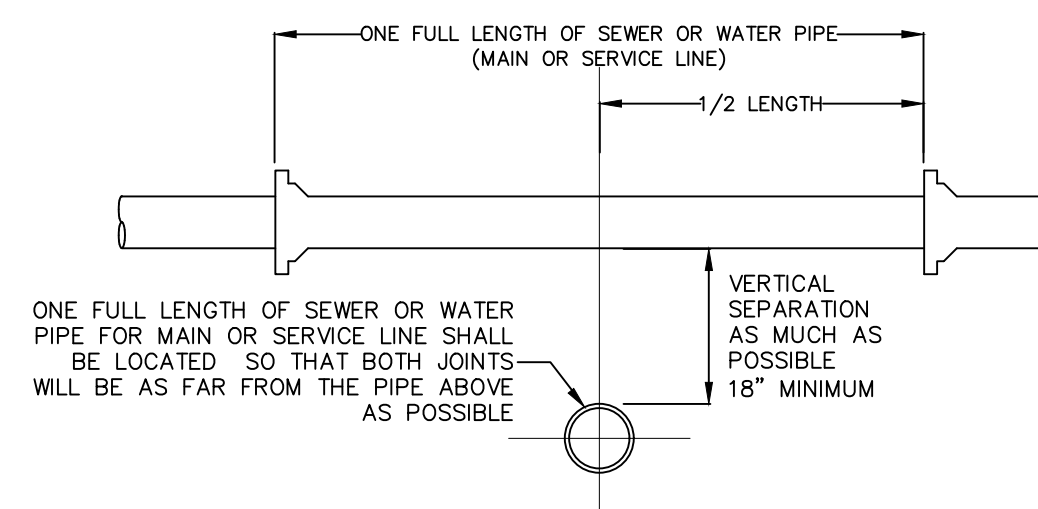
TYPE OF SOIL	ALLOWABLE SOIL BEARING CAPACITY
MUCK, PETE, ETC.	0 LB. / FT. SQ.
SOFT CLAY	500 LB. / FT. SQ.
FINE SAND	1,000 LB. / FT. SQ.
DECOMPOSED GRANITE (D.G.)	1,500 LB. / FT. SQ.
SANDY GRAVEL	2,000 LB. / FT. SQ.
CEMENTED SANDY GRAVEL	4,000 LB. / FT. SQ.
HARD SHALE	5,000 LB. / FT. SQ.
GRANITE	10,000 LB. / FT. SQ.

- NOTES:
* IN MUCK, PEAT OR OTHER INCOMPETENT SOILS, RESISTANCE SHALL BE ACHIEVED BY REMOVAL AND REPLACEMENT WITH BALLAST OF SUFFICIENT STABILITY TO RESIST THE INTENDED THRUSTS. DESIGN OF THRUST RESTRAINT SYSTEMS IN SUCH CASES SHALL BE PREPARED BY A QUALIFIED GEOTECHNICAL ENGINEER AND SHALL BE APPROVED BY THE AGENCY ENGINEER.
** FIRE HYDRANTS THAT DEAD END PIPE RUNS, WILL NEED THRUST BLOCKS. THRUST BLOCKS ARE TO BE DESIGNED BY A NYSPE AND SUBMITTED TO SUEZ UNDER SHOP DRAWING REVIEW PROCESS.

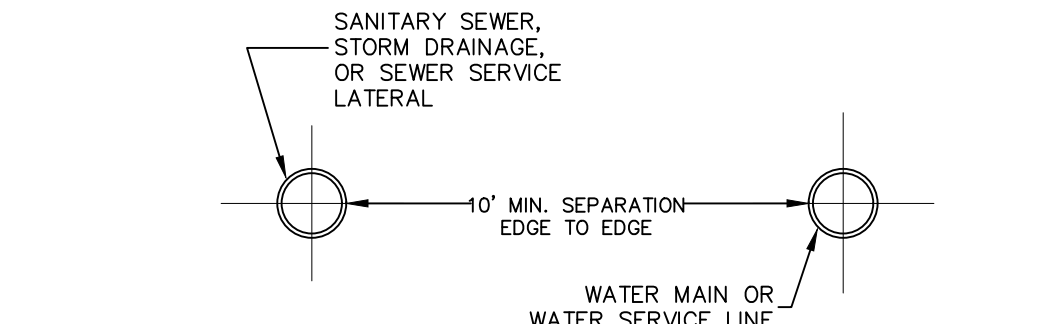
TYPICAL THRUST BLOCK DETAIL
NOT TO SCALE

WATER NOTES

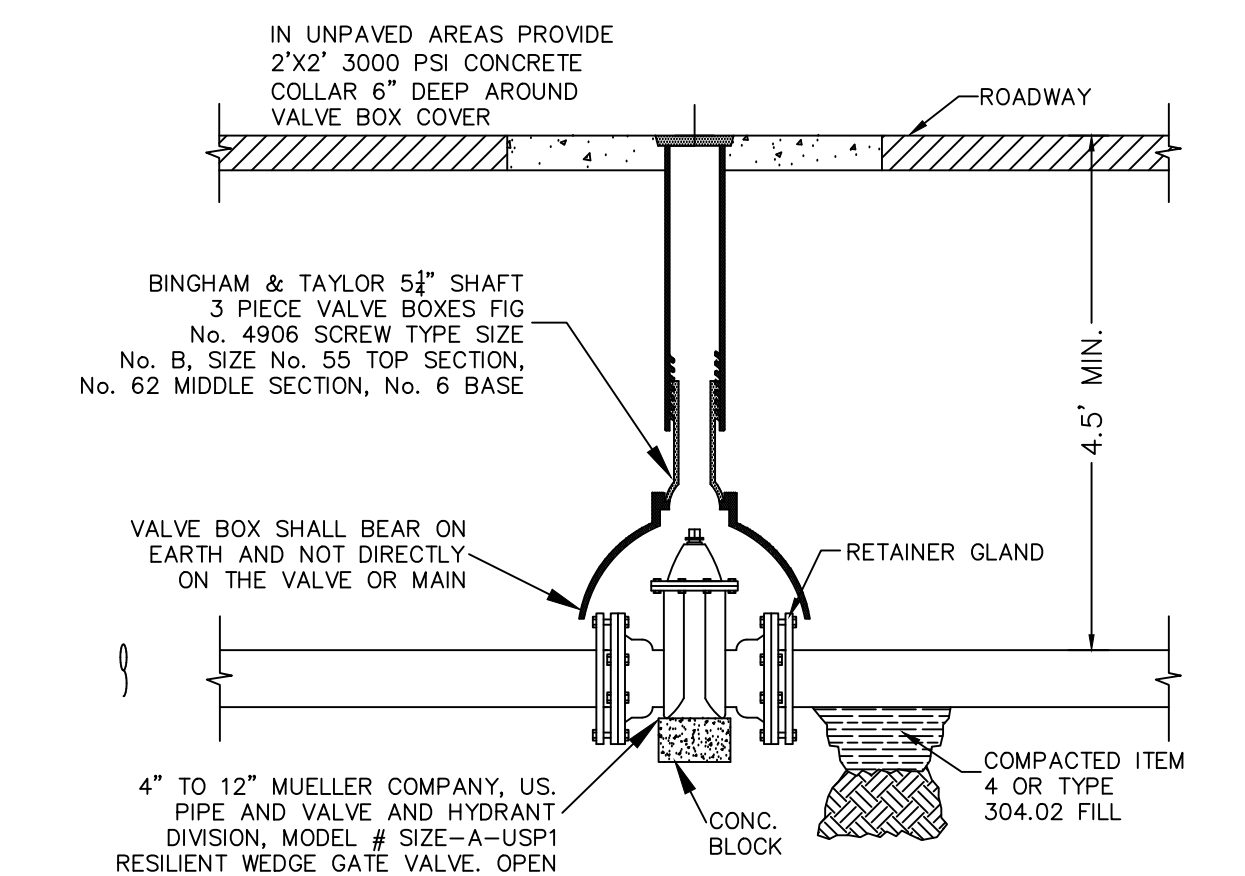
1. ALL WATER SYSTEM INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE VILLAGE OF SOUTH BLOOMING GROVE, THE ORANGE COUNTY DEPARTMENT OF HEALTH, THE LATEST AWWA STANDARDS, AND "RECOMMENDED STANDARDS FOR WATER WORKS" (2007-GLUMBE)
2. DISINFECTION AND TESTING SHALL BE IN ACCORDANCE WITH AWWA C651.
3. PRESSURE AND LEAKAGE TESTING SHALL BE IN ACCORDANCE WITH AWWA C600, P. 6. SUPPLIERS RECORDS INDICATE ADEQUATE PRESSURE AND CAPACITY IS AVAILABLE.
4. ALL ELEVATIONS BASED ON TOPOGRAPHICAL INFORMATION PREPARED BY CLEARPOINT SERVICES, LLC.
5. AVAILABLE INFORMATION AS TO THE LOCATION OF EXISTING SUBSTRUCTURES AND UTILITIES HAS BEEN COLLECTED FROM VARIOUS SOURCES THE RESULTS OF SUCH INVESTIGATIONS, AS MAY BE SHOWN ON THE CONTRACT DRAWINGS, ARE NOT GUARANTEED AS TO ACCURACY. ALL EXISTING UTILITIES ARE SHOWN FOR INFORMATION ONLY. THE CONTRACTOR SHALL DIG TEST PITS AS REQUIRED TO VERIFY TRUE AND EXACT LOCATIONS OF UNDERGROUND LINES.
6. ALL PROFILES INDICATE APPROXIMATE GROUND PROFILES.
7. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES, AND DIG SAFELY NEW YORK (1-800-962-7962), A MINIMUM OF 72 HOURS PRIOR TO EXCAVATION, AND SHALL COMPLY WITH ALL CURRENT MARKOUT REQUIREMENTS OF DIG SAFELY NEW YORK.
8. EXCAVATIONS OR TRENCHING WITHIN CLOSE PROXIMITY TO UNDERGROUND FACILITIES OR UTILITY POLES WILL REQUIRE PROTECTION TO PREVENT DAMAGE OR INTERRUPTION OF SERVICE TO UNDERGROUND FACILITIES. THE COST TO PROVIDE THIS PROTECTION WILL BE BORNE BY THE CONTRACTOR.
9. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT EXISTING THRUST BLOCKS WHICH ARE RESTRAINING EXISTING UTILITIES. EXISTING THRUST BLOCKS SHALL NOT BE UNDERMINED.
10. ALL TRENCH LINES SHALL BE CUT OR MILLED.
11. THE CONTRACTOR SHALL COMPLY WITH ALL ROAD OPENING REQUIREMENTS AND ORDINANCES OF THE GOVERNING AGENCY.
12. RESTORATION, INCLUDING THE REMOVAL OF EXCESS EXCAVATED MATERIAL AND PLACEMENT OF TEMPORARY PAVEMENT, SHALL BE PERFORMED AND COMPLETED ON A DAILY BASIS. ALL ROADS SHALL BE PASSABLE TO VEHICULAR TRAFFIC AT THE END OF EACH WORK DAY.
13. ALL TRENCHES SHALL BE BACKFILLED WITHOUT DELAY. OPEN TRENCHES SHALL BE KEPT TO A MINIMUM. OPEN TRENCHES SHALL BE STEEL PLATED. UPON BACKFILLING THE CONTRACTOR SHALL BROOM SWEEP STREETS, USE APPROPRIATE METHODS TO CONTROL DUST AND HOSE DOWN THE PAVEMENT TO KEEP SURFACE CLEAN.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ALL EXCESS EXCAVATED MATERIAL TO AN OFF-SITE LOCATION.
15. THE CONTRACTOR SHALL FURNISH AND INSTALL CORPORATIONS WHEREVER NECESSARY FOR PRESSURE TESTING AND DISINFECTING THE WATER MAIN. CORPORATIONS SHALL BE 3/4" FOR MAINS SMALLER THAN 16" AND 1" FOR MAINS 16" AND LARGER. THE CONTRACTOR SHALL INSTALL AS MANY CORPORATIONS AS ARE REQUIRED FOR PROPER TESTING, FLUSHING, AIR BLEEDING AND DISINFECTION.
16. TO MAINTAIN THE HORIZONTAL AND VERTICAL ALIGNMENT SHOWN ON THE PLANS, PIPE JOINTS MAY BE DEFLECTED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS, UNLESS THE SPECIFICATIONS INDICATE A MORE STRINGENT REQUIREMENT. IF NECESSARY, EITHER TO MAINTAIN THE ALIGNMENT SHOWN OR TO ADJUST THE ALIGNMENT TO MEET ACTUAL FIELD CONDITIONS, ADDITIONAL FITTINGS SHALL BE INSTALLED AS REQUIRED.
17. ALL STATIONING SHOWN ON PLANS IS APPROXIMATE.
18. ALL CONSTRUCTION ACTIVITIES ARE TO BE CONFINED TO THE PUBLIC RIGHT-OF-WAY OR TO THE LIMITS DEPICTED ON THE CONTRACT DRAWINGS.
19. THE WATER MAIN SHALL BE INSTALLED WITH A MINIMUM OF FOUR AND ONE HALF (4.5) FEET OF COVER. ANY DEVIATION FROM THIS WILL REQUIRE AUTHORIZATION FROM THE VILLAGE OF SOUTH BLOOMING GROVE ENGINEER.
20. THE CONTRACTOR SHALL TAKE STEPS NECESSARY TO PRESERVE EXISTING CURB AND MINIMIZE THE LENGTH OF CURBING THAT MUST BE REPLACED.
21. THE CONTRACTOR IS CAUTIONED THAT ALL SANITARY LATERALS AND UTILITY SERVICES HAVE NOT BEEN LOCATED. WHEN THE CONTRACTOR ENCOUNTERS AN OBSTRUCTION AND CANNOT ADJUST THE ALIGNMENT USING ALLOWABLE JOINT DEFLECTION, THE CONTRACTOR SHALL REFER TO THE WATER MAIN DETAIL SHEETS. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE PROMPT REPAIR OF DAMAGED UTILITIES, AND SHALL RESTORE THE SITES AS NEATLY AS POSSIBLE TO THEIR ORIGINAL CONDITION.
22. THE CONTRACTOR SHALL PROTECT ALL STRUCTURES, ROADS, PIPELINES, TREES, SHRUBBERY, GRASS AREAS, ETC. DURING THE PROGRESS OF THE WORK AND SHALL REMOVE DAILY FROM THE SITE ALL DEBRIS AND UNUSED MATERIALS. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL RESTORE THE SITES AS NEATLY AS POSSIBLE TO THEIR ORIGINAL CONDITION.
23. ALL SIDEWALK AREAS SHALL BE PASSABLE AND BROOM SWEEPED AT THE END OF EACH WORK DAY.
24. DURING FLUSHING AND PRESSURE TESTING OF THE MAIN, THE VILLAGE OF SOUTH BLOOMING GROVE SHALL OPERATE ALL VALVES.
25. REFER TO DETAIL SHEET FOR STANDARD DETAILS.



WATER & SEWER CROSSING DETAIL
NOT TO SCALE



WATER & SEWER HORIZONTAL SEPARATION
NOT TO SCALE



IN-LINE GATE VALVE INSTALLATION DETAIL
NOT TO SCALE



WATERMAIN TRENCH EXCAVATION AND BACKFILL
NOT TO SCALE

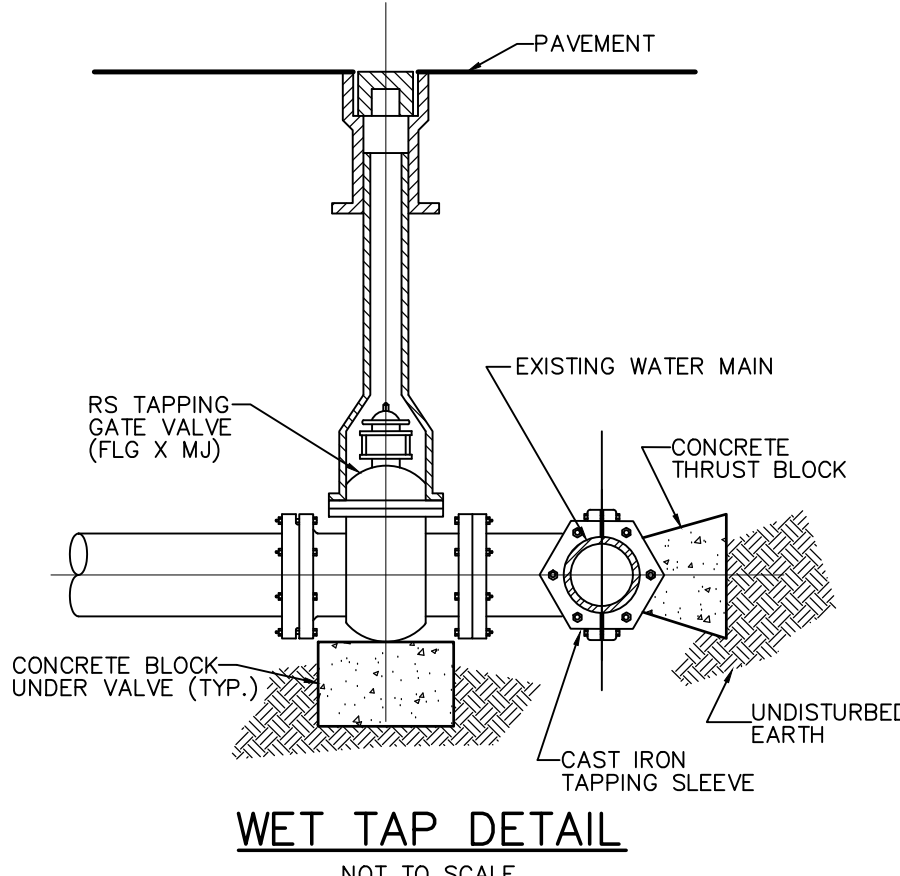
- NOTE:
1. MAXIMUM DEPTH OF COVER NOT EXCEED 6' WITHOUT APPROVAL OF THE TOWN WATER SUPERINTENDENT.
- SEWER & WATER SEPARATION NOTES**
1. WHEN IT IS IMPOSSIBLE TO MAINTAIN PROPER HORIZONTAL OR VERTICAL SEPARATION AS SHOWN, THE SEWER SHALL BE DESIGNED AND CONSTRUCTED EQUAL TO THE WATER MAIN, AND SHALL BE PRESSURE TESTED TO ASSURE WATER TIGHTNESS PRIOR TO BACKFILLING.
 2. A FULL LENGTH OF BOTH PIPES CROSSING MUST BE CENTERED AT THE CROSSING.
 3. BEDDING MATERIAL SHALL BE INCREASED TO 12" BELOW THE LENGTH OF WATER MAIN PIPE FOR 10' ON EITHER SIDE OF THE CROSSING.
 4. TWO LAYERS OF CAUTION TRACER TAPE SHALL BE PLACED 18" MINIMUM ABOVE STORM SEWER MAINS.

NOTES

1. SEPARATION DISTANCE BETWEEN WATER MAINS AND STORM/SEWER MAINS SHALL BE 10' HORIZONTAL AND 18" AT CROSSINGS. THESE SEPARATION DISTANCES MUST BE MAINTAINED UNLESS SPECIFICALLY SHOWN AND INDICATED OTHERWISE ON THE PLANS. THE PREFERRED CROSSING OPTION IS FOR THE WATER MAIN TO BE CONSTRUCTED ABOVE STORM/SEWER MAINS.
2. SEWER MAIN INCLUDES SEWER LATERALS AND STORM DRAIN.
3. WATER MAIN INCLUDES WATER SERVICE LATERALS.
4. DEFLECT WATER MAIN IN AN ARC BENEATH THE SEWER/STORM LINE. DO NOT USE FITTINGS TO DEFLECT THE WATER MAIN.

WATER OVER SEWER SEPARATION NOTES

1. FULL LENGTH OF BOTH PIPES CROSSING MUST BE CENTERED AT THE CROSSING SO THAT PIPE JOINTS WILL BE AS FAR FROM EACH OTHER AS POSSIBLE (10' MIN.).
2. CONTRACTOR SHALL PROVIDE STRUCTURAL SUPPORT FOR EXISTING WATER MAIN OVER THE ENTIRE TRENCH WIDTH TO PREVENT DAMAGE TO THE WATER MAIN.
3. WATER TIGHT JOINTS WHERE WATERLINES ARE CROSSED ABOVE OR BELOW.



WET TAP DETAIL
NOT TO SCALE

REV.	BY	DATE	DESCRIPTION
12	MM	11-4-24	SUBDIVISION PLAN PREPARATION
11	MM	9-27-24	SEDIMENT BASIN REVISION
10	MM	3-11-24	FINAL ADS DESIGN & GAS UTILITY LOCATION ADDED
9	MM	3-4-24	FINAL ADS SHOP DRAWING DESIGN ADDED
8	MM	2-14-24	SW SHOP DWG REVISIONS & LIGHTING PLAN UPDATE
7	MM	2-5-24	FINAL PLANS COORDINATED WITH SHOP DRAWING APPROVAL
6	MM	2-3-24	FINAL PLANS FOR CONSTRUCTION
5	MM	1-18-24	MINOR DRAINAGE & SITE PLAN REVISIONS FOR CONSTRUCTION
4	MM	1-15-24	SW DETAIL & DRAINAGE REVISIONS
3	MM	11-30-23	TRANSFORMER LOCATION ADDED
2	MM	5-23-23	SWPPP REVISIONS
1	MM	8-15-22	PREPARATION OF PRELIMINARY PLANS

THIS SHEET IS NOT VALID WITHOUT ALL OF THE SHEETS THAT COMPRISE THE SET

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WWW.ARDENCONSULTING.NET

AMENDED SITE PLAN & SUBDIVISION FOR BAILIE LANE ESTATES LLC
VILLAGE OF SOUTH BLOOMING GROVE
ORANGE COUNTY, NEW YORK

WATER SUPPLY DETAILS

JOB#: 22-013
SCALE: AS NOTED
DATE: 6/28/22
DRAWN: MM
CHECKED: MM
SHEET NO: 21 of 22

MICHAEL A. MORGANTE, P.E.
LIC. NO. 78577

WARNING- IT IS A VIOLATION OF NEW YORK EDUCATIONAL LAW, SECTION 7209.2, FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER THIS DOCUMENT IN ANY WAY. IF ALTERED, THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF NEW YORK EDUCATIONAL LAW, SECTION 7209.2

ONLY MAPS WITH EMBOSSED SEALS ARE GENUINE COPIES OF THE ORIGINAL WORK AND OPINION. MAPS NOT BEARING EMBOSSED SEALS SHOULD NOT BE RELIED UPON SINCE OTHER THAN EMBOSSED-SEAL COPIES MAY CONTAIN UNAUTHORIZED AND UNDETECTABLE MODIFICATIONS, DELETIONS, ADDITIONS AND CHANGES.

YOU MUST BE CONTACTED PRIOR TO ANY EXCAVATION OR DEMOLITION

EXISTING CONDITIONS & SURVEY NOTES:

- 1. SURVEYED WITHOUT THE BENEFIT OF A TITLE SEARCH, SUBJECT TO COVENANTS, EASEMENTS, RESTRICTIONS, CONDITIONS AND AGREEMENTS OF RECORD.
2. CERTIFICATIONS ARE NOT TRANSFERABLE TO ADDITIONAL INSTITUTIONS, THEIR SUCCESSORS AND/OR ASSIGNS, OR SUBSEQUENT OWNERS.
3. SUBSURFACE STRUCTURES NOT VISIBLE OR READILY APPARENT ARE NOT SHOWN AND CERTIFICATIONS ARE NOT CERTIFIED.
4. BOUNDARY LINES SHOWN HEREON ARE APPROXIMATE AND ARE SUBJECT TO WHATEVER STATE OF FACTS THAT AN ACCURATE BOUNDARY SURVEY MAY REVEAL.

GRADING NOTES:

- 1. PRIOR TO SITE DISTURBANCE, CONTRACTOR TO INSTALL EROSION & SEDIMENT CONTROL MEASURES.
2. IF ROCK IS ENCOUNTERED DURING CONSTRUCTION & REMOVAL BY BLASTING IS REQUIRED, THE CONTRACTOR SHALL OBTAIN ALL NECESSARY APPROVALS AND PERMITS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
3. ALL BLASTING OPERATIONS WILL ADHERE TO NEW YORK STATE AND LOCAL AUTHORITY ORDINANCES GOVERNING THE USE OF EXPLOSIVES, THE STATE REGULATIONS ARE CONTAINED IN 12 NYCRR 39 AND INDUSTRIAL CODE RULE 753.
4. STRIP ALL TOPSOIL PRIOR TO COMMENCING EARTHWORK OPERATIONS. TOPSOIL MAY BE STORED AND REUSED IN LAWN AND PLANTING AREAS ONLY. TOPSOIL AND SEED ALL AREAS DISTURBED BY CONSTRUCTION THAT ARE TO REMAIN GREEN.
5. REMOVE ALL VEGETATION, TREES, STUMPS, GRASSES, ORGANIC SOILS, DEBRIS AND DELETERIOUS MATERIALS WITHIN THE AREAS SLATED FOR CONSTRUCTION.
6. IF PREVIOUSLY UNKNOWN CULTURAL ARCHEOLOGICAL, OR HISTORIC REMAINS OR ARTIFACTS ARE DISCOVERED IN THE COURSE OF CONSTRUCTION OF THIS PROJECT, THE PROJECT SPONSORS SHALL SUSPEND CONSTRUCTION OPERATIONS IN THE PERTINENT AREA AND SHALL NOTIFY THE PROJECT ENGINEER.

DEMOLITION NOTES:

- 1. REFER TO REQUIREMENTS OUTLINED IN THE EROSION & SEDIMENT CONTROL PLANS & NOTES PRIOR TO COMMENCEMENT OF WORK.
2. EXISTING STRUCTURES ARE TO BE REMOVED PRIOR TO CONSTRUCTION OF NEW IMPROVEMENTS.
3. BUILDING(S)/STRUCTURE(S) TO BE DEMOLISHED ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE NOT TO BE DEMOLISHED AS PART OF THIS WORK.
4. CONFORM TO APPLICABLE CODE FOR DEMOLITION OF STRUCTURES, SAFETY OF ADJACENT STRUCTURES, DUST CONTROL RUNOFF CONTROL, AND HAULING, DISPOSAL AND STORAGE OF DEBRIS.
5. PROVIDE, ERECT, AND MAINTAIN TEMPORARY BARRIERS AND SECURITY DEVICES.
6. MAINTAIN EXISTING UTILITIES TO REMAIN IN SERVICE AND PROTECT THEM AGAINST DAMAGE DURING SELECTIVE DEMOLITION OPERATIONS.
7. NOTIFY ADJACENT OWNERS OF WORK THAT MAY AFFECT THEIR PROPERTY, POTENTIAL NOISE, UTILITY OUTAGE, OR DISRUPTION, COORDINATE WITH OWNER.
8. PREVENT MOVEMENT OR SETTLEMENT OF ADJACENT STRUCTURES. PROVIDE BRACING AND SHORING.
9. LOCATE AND IDENTIFY ALL EXISTING UTILITIES WITHIN THE CONSTRUCTION AREA. DISCONNECT AND SEAL OR CAP OFF UTILITY SERVICES THAT WILL BE AFFECTED BY THIS PROJECT.
10. DEMOLISH AND REMOVE COMPONENTS IN AN ORDERLY AND CAREFUL MANNER.
11. PROTECT EXISTING FEATURES THAT ARE NOT TO BE DEMOLISHED.
12. CONDUCT OPERATIONS WITH MINIMUM INTERFERENCE TO PUBLIC OR PRIVATE ACCESSES.
13. MAINTAIN EGRESS AND ACCESS AT ALL TIMES. DO NOT CLOSE OR OBSTRUCT ROADWAYS, OR SIDEWALKS WITHOUT PERMITS.
14. CEASE OPERATIONS IMMEDIATELY IF ADJACENT STRUCTURES APPEAR TO BE IN DANGER.
15. FIELD VERIFY EXISTING CONDITIONS AND CORRELATE WITH REQUIREMENTS INDICATED ON DEMOLITION PLAN TO DETERMINE EXTENT OF SELECTIVE DEMOLITION REQUIRED.
16. CONDUCT DEMOLITION OPERATIONS AND REMOVE DEBRIS TO ENSURE MINIMUM INTERFERENCE WITH SELECTIVE DEMOLITION OPERATIONS.
17. CONDUCT DEMOLITION OPERATIONS TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT BUILDINGS AND FACILITIES TO REMAIN.
18. USE WATER MIST, TEMPORARY ENCLOSURES AND OTHER SUITABLE METHODS TO LIMIT THE SPREAD OF DUST AND DIRT.
19. REMOVE AND TRANSPORT DEBRIS IN A MANNER THAT WILL PREVENT SPILLAGE ON ADJACENT SURFACES AND AREAS.
20. CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF DUST, DIRT AND DEBRIS CAUSED BY SELECTIVE DEMOLITION OPERATIONS.
21. PROMPTLY DISPOSE OF DEMOLISHED MATERIALS. ALL DEBRIS RESULTING FROM DEMOLITION ACTIVITIES SHALL BE DISPOSED OF OFF-SITE AT A FACILITY APPROVED TO RECEIVE THE DEBRIS. DO NOT ALLOW DEMOLISHED MATERIALS TO ACCUMULATE ON-SITE.

GENERAL CONSTRUCTION:

- 1. THE CONTRACTOR SHALL PROTECT EXISTING PROPERTY LINE MONUMENTATION. ANY MONUMENTATION DISTURBED OR DESTROYED, AS JUDGED BY THE ENGINEER OR OWNER, SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE AND UNDER THE SUPERVISION OF A NEW YORK STATE LICENSED LAND SURVEYOR.
2. ALL PAVEMENT RESTORATION SHALL MEET AND MATCH EXISTING GRADES.
3. ALL SAWCUT LINES SHALL BE PARALLEL AND CURVILINEAR TO EXISTING OR PROPOSED CURBING AND SHALL BE A CONSTANT DISTANCE OF 18" MIN AWAY.
4. ALL ARCHITECTURE IS SUBJECT TO PLANNING BOARD & BUILDING DEPARTMENT REVIEW.
5. NOTIFY ENGINEER 48 HOURS PRIOR TO INITIALIZATION OF ANY WORK ON SITE.
6. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY CONDITIONS THAT VARY FROM THOSE SHOWN ON THE PLANS.
7. CONTRACTOR IS RESPONSIBLE FOR EMPLOYING AND MAINTAINING ALL TRAFFIC CONTROL AND SAFETY MEASURES DURING CONSTRUCTION.
8. CONTRACTOR IS RESPONSIBLE FOR PROPERLY & SAFELY MAINTAINING AREA BETWEEN ALL ADJOINING PROPERTIES.
9. NO WORK, STORAGE OR TRESPASS SHALL BE PERMITTED BEYOND THE SITE PROPERTY LINES OR PUBLIC RIGHT-OF-WAY.
10. ALL EXISTING LAWN AREA, CURBING, PAVING, SIDEWALKS, CULVERTS OR OTHER PUBLIC OR PRIVATE PROPERTY DAMAGED BY TRENCHING OR EXCAVATION OPERATIONS SHALL BE REPLACED OR REPAIRED TO A CONDITION EQUAL TO EXISTING, AS DESCRIBED IN CONTRACT DOCUMENTS OR AS ORDERED BY ENGINEER (AOBE), MAILBOXES, SIGN POSTS, ETC. SHALL BE PROTECTED OR REMOVED AND REPLACED EXACTLY AS THEY WERE BEFORE BEING DISTURBED.
11. MATERIALS, WORKMANSHIP, AND CONSTRUCTION FOR THE SITE IMPROVEMENTS SHOWN HEREON SHALL BE IN ACCORDANCE WITH:
A. THE MOST RECENT NEW YORK STATE DEPARTMENT OF TRANSPORTATION " STANDARD SPECIFICATIONS", AS SUPPLEMENTED.
B. CURRENT PREVAILING MUNICIPAL, COUNTY, AND/OR STATE AGENCY SPECIFICATIONS, STANDARDS, CONDITIONS, AND REQUIREMENTS.
C. CURRENT PREVAILING UTILITY COMPANY/AUTHORITY SPECIFICATIONS, STANDARDS, AND REQUIREMENTS.
D. CURRENT MANUFACTURER SPECIFICATIONS, STANDARDS, AND REQUIREMENTS.

PAVING:

- 1. NO VEHICULAR TRAFFIC OF ANY SORT SHALL BE PERMITTED ON THE SURFACE OF SUBBASE COURSE MATERIAL ONCE IT HAS BEEN FINELY GRADED, COMPACTED, AND READY FOR PAVING. SUBBASE MATERIAL SO PREPARED FOR PAVING SHALL BE PAVED WITHIN THREE DAYS OF PREPARATION.
2. SUBBASE MATERIAL AND THE VARIOUS ASPHALT CONCRETE MATERIALS CALLED FOR IN THESE DRAWINGS SHALL CONFORM WITH THE REFERENCED SECTION OF THE MOST RECENT NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS.
3. PLACE ASPHALT CONCRETE MIXTURE ON PREPARED SURFACE, SPREAD AND STRIKE-OFF USING A SELF-PROPELLED PAVING MACHINE WITH VIBRATING SCREED.
4. PROVIDE JOINTS BETWEEN OLD AND NEW PAVEMENTS OR BETWEEN SUCCESSIVE DAYS WORK.
5. TACK COAT MEANS SPECIFIED OR CALLED OUT ON THE DRAWINGS OR REQUIRED BY THE REFERENCED SPECIFICATION SHALL CONFORM WITH THE FOLLOWING:
A. TACK COAT SHALL MEET THE MATERIAL REQUIREMENTS OF 702-90 ASPHALT EMULSION FOR TACK COAT OF THE MOST RECENT NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, SHALL BE APPLIED IN ACCORDANCE WITH SECTION 407 - TACK COAT SHALL BE IN ACCORDANCE WITH THOSE SPECIFICATIONS AND AS OTHERWISE PROVIDED FOR IN THESE DRAWINGS.
B. REMOVE LOOSE AND FOREIGN MATERIAL FROM ASPHALT SURFACE BEFORE PAVING NEXT COURSE. USE POWER BROOMS, BLOWERS OR HAND BROOM.
C. APPLY TACK COAT TO ASPHALT PAVEMENT SURFACES & SURFACES OF CURBS, GUTTERS, MANHOLES, AND OTHER STRUCTURES PROJECTING INTO OR ABUTTING PAVEMENT. DRY TO A "TACKY" CONSISTENCY BEFORE PAVING.
D. TACK COAT ENTIRE VERTICAL SURFACE OF ABUTTING EXISTING PAVEMENT.
6. AFTER COMPLETION OF PAVING AND SURFACING OPERATIONS, CLEAN SURFACES OF EXCESS OR SPILLED ASPHALT, GRAVEL OR STONE MATERIALS TO THE SATISFACTION OF THE ENGINEER.
7. ALL CURBING SHALL BE CONCRETE.

STRIPING:

- 1. STRIPE PAVEMENT AS INDICATED ON THE PLANS AND/OR IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REQUIREMENTS.
2. COLOR: DRIVE LANE OR AOBE NO PARKING ZONE WARNINGS-WHITE OR AOBE PARKING DIVIDERS-WHITE OR AOBE WALKING LINES-WHITE OR AOBE HANDICAP PARKING LINES & SYMBOL-BLUE.

SITE PLAN MAP NOTES:

- 1. NO BUILDING PERMIT FOR A BUILDING SUBJECT TO SITE PLAN APPROVAL SHALL BE ISSUED BY THE BUILDING INSPECTOR EXCEPT UPON AUTHORIZATION OF AND IN CONFORMITY WITH THE SITE PLAN APPROVED BY THE PLANNING BOARD.
2. ALL TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE NEW YORK STATE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

UTILITY PLAN NOTES:

- 1. ALL UNDERGROUND UTILITIES ARE SHOWN IN THEIR RELATIVE POSITION AND ARE FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR TO VERIFY THEIR ACTUAL LOCATION IN THE FIELD PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
2. ANY CONDITION ENCOUNTERED IN THE FIELD DIFFERING FROM THOSE SHOWN HEREON, SHALL BE REPORTED TO THE DESIGN ENGINEER BEFORE CONSTRUCTION IS TO PROCEED.
3. SEWER MAINS IN RELATION TO WATER MAINS: WHERE POSSIBLE, SEWERS SHALL BE LAID AT LEAST 10 (TEN) FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED WATER MAIN. VERTICAL SEPARATION SHALL BE MAINTAINED TO PROVIDE 18 (EIGHTEEN) INCHES BETWEEN TOP OF SEWER AND BOTTOM OF THE WATER MAIN AT UTILITY CROSSINGS. WHEN NOT POSSIBLE TO OBTAIN THE PROPER VERTICAL SEPARATION, SEWER PIPE SHALL BE PRESSURE RATED AND TESTED @ 150psi, 10 (TEN) FEET ON EACH SIDE OF THE WATER MAIN BEING CROSSED.
4. ALL PROPOSED UTILITIES SHALL BE COORDINATED WITH BUILDING PLANS FOR ANY CONNECTIONS.
5. ALL STORM SEWER SHALL BE SMOOTH INTERIOR HOPE UNLESS OTHERWISE SPECIFIED.
6. ALL GRAVITY SANITARY SEWER SHALL BE COR 35 PVC CONFORMING TO ASTM SPECIFICATION D-3034 MINIMUM PIPE STIFFNESS (F/Y) AT 5% DEFLECTION SHALL BE 46 PSI WHEN TESTED IN ACCORDANCE WITH ASTM SPECIFICATION D-2412. ALL JOINTS AND CONNECTIONS SHALL BE MADE WATERTIGHT.
7. CONTRACTOR TO VERIFY STATUS OF ALL UTILITY SERVICES PRIOR TO INTERRUPTION.
8. EXPLORATORY EXCAVATIONS SHALL BE PERFORMED BY THE CONTRACTOR AT ALL UTILITY CONNECTION LOCATIONS AND AS NEEDED TO VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING WORK.
9. BEFORE CONSTRUCTING LINES TO CONNECT TO EXISTING UTILITIES, VERIFY EXISTING UTILITY INVERTS AND NOTIFY THE ENGINEER IF ANY VARIATION FROM THE PLAN IS REQUIRED.
10. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES IN SERVICE FOR THE DURATION OF THE WORK.
11. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIRED PERMITS AND ASSOCIATED CONDITIONS.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING UTILITY TRENCHES AND EXCAVATIONS AND FOR THE MAINTENANCE OF SURFACE DRAINAGE DURING THE COURSE OF THE WORK.
13. ALL PROPOSED UTILITIES SHALL TERMINATE 5 FEET FROM ANY PROPOSED BUILDING FACE. CONTRACTOR TO COORDINATE WITH BUILDING PLANS FOR ANY CONNECTIONS.
14. A NEW YORK STATE LICENSED PROFESSIONAL ENGINEER SHALL INSPECT THE SANITARY FACILITIES (WATER DISTRIBUTION, ANY WATER TREATMENT, AND SEWAGE FACILITIES) AT THE TIME OF CONSTRUCTION. PRIOR TO OCCUPANCY OF THE DWELLING(S) OR BUILDING(S), THE ENGINEER SHALL CERTIFY TO THE LOCAL CODE ENFORCEMENT OFFICER THAT THE FACILITIES HAVE BEEN INSTALLED IN ACCORDANCE WITH THE APPROVED PLANS.
15. TELEPHONE, ELECTRIC, AND GAS LINES SHALL BE INSTALLED UNDERGROUND. CROSSINGS OF PROPOSED PAVEMENTS SHALL BE INSTALLED PRIOR TO THE CONSTRUCTION OF PAVEMENT TOP COURSE.

GENERAL NOTES:

- 1. UNDERGROUND FACILITIES AND STRUCTURES SHOWN HEREON WERE TAKEN FROM DATA OBTAINED FROM PREVIOUS MAPS AND RECORD DRAWINGS. ALL ABOVE GROUND OPERATIONS AND SURFACE FEATURES SHOWN HEREON ARE THE RESULT OF A FIELD SURVEY UNLESS OTHERWISE NOTED. THERE MAY BE OTHER UNDERGROUND UTILITIES, THE EXISTENCE OF WHICH ARE NOT KNOWN OR CERTIFIED BY THE UNDERSIGNED. SIZE AND LOCATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES MUST BE VERIFIED BY THE APPROPRIATE AUTHORITIES. THE UNDERGROUND FACILITIES PROTECTIVE ORGANIZATION MUST BE NOTIFIED PRIOR TO CONDUCTING TEST BORINGS, EXCAVATION AND CONSTRUCTION.
2. THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.
3. CONTRACTOR SHALL FIELD VERIFY EXISTING GRADES, EXISTING STRUCTURE LOCATIONS AND OTHER EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND SHALL REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE FOR FURTHER RESOLUTION. SUCH CONDITIONS COULD RENDER THE DESIGNS HEREON INAPPROPRIATE OR INEFFECTIVE.
4. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT OTHER CONTRACTORS MAY BE WORKING IN THE AREA ON OTHER CONSTRUCTION AT THE SAME TIME THAT WORK IS PERFORMED UNDER THIS CONTRACT. THE CONTRACTOR SHALL BE AWARE OF THE NATURE AND EXTENT OF THIS OTHER WORK AND SHALL SCHEDULE AND CONDUCT HIS OWN OPERATION SO THAT THERE WILL BE NO CONFLICT IN OPERATIONS.
5. SINCE THIS PROJECT INVOLVES CONSTRUCTION WITHIN AN ACTIVE ROADWAY, IT IS IMPERATIVE THAT THE CONSTRUCTION BE CARRIED FORTH IN SUCH A MANNER AS TO INSURE THAT PROPER TRAFFIC FLOW IS MAINTAINED DURING CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE MAINTENANCE AND PROTECTION OF TRAFFIC IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND STANDARD SPECIFICATIONS.
6. THE CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND DIMENSIONS AND SHALL BE RESPONSIBLE FOR FIELD FIT FINISH AND QUALITY OF WORK AND MATERIALS USED IN THE CONSTRUCTION. NO ALLOWANCE SHALL BE MADE ON BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLECT ON HIS PART.
7. THE CONTRACTOR IS RESPONSIBLE FOR THE REPLACEMENT AND RESTORATION OF ALL NATURAL AND MANMADE FEATURES WHETHER SHOWN ON THE PLANS OR ENCOUNTERED IN THE FIELD. IT IS THE INTENTION OF THE PLANS TO SHOW ONLY MAJOR FEATURES TO BE PROTECTED, PRESERVED OR REPLACED.
8. PROTECTION AND RESTORATION OF PROPERTY SHALL BE IN ACCORDANCE WITH THE NYS DOT STANDARD SPECIFICATIONS.
9. TOPSOIL SHALL BE PLACED AND AREAS SHALL BE SEEDDED AS SOON AS FINAL GRADES ARE ESTABLISHED ON PERMANENT SLOPES. SLOPES SHALL ALSO BE MULCHED.
10. THE CONTRACTOR SHALL CONTACT ALL THE APPROPRIATE PARTIES WITH JURISDICTION OVER THE UTILITIES ENTERING ON OR NEAR THE PROJECT AREA PRIOR TO INITIATION OF CONSTRUCTION. THOSE AGENCIES TO BE CONTACTED ARE:
11. THE CONTRACTOR SHALL VERIFY THE LOCATION OF AND SHALL BE RESPONSIBLE FOR THE PRESERVATION OF ALL PUBLIC AND PRIVATE UNDERGROUND AND SURFACE UTILITIES AND STRUCTURES AT OR ADJACENT TO THE SITE OF CONSTRUCTION, IN SO FAR AS THEY MAY BE ENDANGERED BY HIS OPERATIONS. THIS SHALL HOLD TRUE WHETHER OR NOT THEY ARE SHOWN ON THE CONTRACT DRAWINGS. IF THEY ARE SHOWN ON THE DRAWINGS, THEIR LOCATIONS ARE NOT GUARANTEED EVEN THOUGH THE INFORMATION WAS OBTAINED FROM THE BEST AVAILABLE SOURCES, AND IN ANY EVENT, OTHER UTILITIES NOT SHOWN ON THESE PLANS MAY BE ENCOUNTERED IN THE FIELD. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, REPAIR OR REPLACE ANY STRUCTURES OR UTILITIES THAT HE DAMAGES, AND SHALL CONSTANTLY PROCEED WITH CAUTION TO PREVENT UNDUE INTERRUPTION TO UTILITY SERVICES.
12. IF TEMPORARY UTILITY SERVICES ARE REQUIRED, THE CONTRACTOR SHALL SEE TO IT THAT THEY ARE PROVIDED, AT NO ADDITIONAL COST TO THE OWNER, AND IT SHALL BE HIS RESPONSIBILITY TO MAINTAIN SUCH TEMPORARY FACILITIES FOR THE DURATION OF THE PROJECT AS NECESSARY.
13. ALL EPOXY PAVEMENT MARKINGS AND ALL SIGNS SHALL BE IN CONFORMANCE WITH THE NYS DOT MUTCD.
14. ALL SIGNING WILL BE IN ACCORDANCE WITH THE NATIONAL MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES WITH NYS SUPPLEMENT, MOST RECENT VERSION.
15. PRIOR TO LEAVING THE WORK SITE EACH DAY, THE CONTRACTOR SHALL REMOVE OR PROTECT ANY PART OF THE WORK SITE THAT IS CONSIDERED HAZARDOUS TO THE TRAVELING PUBLIC, BY THE MUNICIPAL ENGINEER OR POLICE DEPARTMENT.
16. DURING ALL CONSTRUCTION OPERATIONS THE CONTRACTOR SHALL MAINTAIN ACCESS TO EACH ADJACENT SITE. IF CONDITIONS REQUIRE THAT ACCESS BE TEMPORARILY CLOSED, THE CONTRACTOR SHALL NOTIFY THE OWNER AT LEAST 24 HOURS IN ADVANCE. ALL ACCESS DRIVES WILL BE OPEN FOR SAFE USE AT THE END OF EACH WORK DAY.
17. AREAS DISTURBED NOT RECEIVING PAVEMENT OR CONCRETE SHALL BE TOPSOILED, SEEDDED, AND MULCHED IN ACCORDANCE WITH SPECIFICATIONS ON ATTACHED SHEETS.
21. THE CONTRACTOR IS RESPONSIBLE FOR PROJECT SAFETY, INCLUDING PROVISION OF ALL APPROPRIATE SAFETY DEVICES AND TRAINING REQUIRED.
22. ARDEN CONSULTING ENGINEERS, PLLC WILL REVIEW AND APPROVE OR TAKE OTHER APPROPRIATE ACTION ON THE CONTRACTOR SUBMITTALS, SUCH AS SHOP DRAWING, PRODUCT DATA, SAMPLES, AND OTHER DATA, WHICH THE CONTRACTOR IS REQUIRED TO SUBMIT, BUT ONLY FOR THE LIMITED PURPOSE OF CHECKING FOR CONFORMANCE WITH THE DESIGN INTENT AND THE INFORMATION SHOWN IN THE CONSTRUCTION CONTRACT DOCUMENTS. CONSTRUCTION MEANS AND/OR METHODS, COORDINATION OF THE WORK WITH OTHER TRADES, AND CONSTRUCTION SAFETY PRECAUTIONS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. ARDEN CONSULTING ENGINEERS, PLLC SHOP DRAWING REVIEW SHALL BE CONDUCTED WITH REASONABLE PROMPTNESS WHILE ALLOWING SUFFICIENT TIME TO PERMIT ADEQUATE REVIEW. REVIEW OF A SPECIFIC ITEM SHALL NOT INDICATE THAT ARDEN CONSULTING ENGINEERS, PLLC HAS REVIEWED THE ENTIRE ASSEMBLY OF WHICH THE ITEM IS A COMPONENT. ARDEN CONSULTING ENGINEERS, PLLC WILL NOT BE RESPONSIBLE FOR ANY DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS NOT BROUGHT TO ITS ATTENTION, IN WRITING, BY THE CONTRACTOR. ARDEN CONSULTING ENGINEERS, PLLC WILL NOT BE REQUIRED TO REVIEW PARTIAL SUBMISSIONS OF CORRELATED ITEMS NOT RECEIVED.
23. NEITHER THE PROFESSIONAL ACTIVITIES OF ARDEN CONSULTING ENGINEERS, PLLC, NOR THE PRESENCE OF ARDEN CONSULTING ENGINEERS, PLLC OR ITS EMPLOYEES AND SUB-CONSULTANTS AT A CONSTRUCTION/PROJECT SITE, SHALL RELIEVE THE GENERAL CONTRACTOR OF HIS OBLIGATIONS, DUTIES AND RESPONSIBILITIES INCLUDING, BUT NOT LIMITED TO, CONSTRUCTION MEANS, METHODS, SEQUENCE, TECHNIQUES OR PROCEDURES NECESSARY FOR PERFORMING, SUPERINTENDING AND COORDINATING THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ANY HEALTH AND SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES. ARDEN CONSULTING ENGINEERS, PLLC AND ITS PERSONNEL HAVE NO AUTHORITY TO EXERCISE ANY CONTROL OVER ANY CONSTRUCTION CONTRACTOR OR ITS EMPLOYEES IN CONNECTION WITH THEIR WORK OR ANY HEALTH OR SAFETY PROGRAMS OR PROCEDURES. THE GENERAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY. ARDEN CONSULTING ENGINEERS, PLLC SHALL BE INDEMNIFIED BY THE GENERAL CONTRACTOR AND SHALL BE NAMED AN ADDITIONAL INSURED UNDER THE GENERAL CONTRACTOR'S POLICIES OF GENERAL LIABILITY INSURANCE.
24. IF THE CONTRACTOR DEVIATES FROM THE PLANS AND SPECIFICATIONS, INCLUDING THE NOTES CONTAINED HEREIN, WITHOUT FIRST OBTAINING THE PRIOR WRITTEN AUTHORIZATION OF THE DESIGN ENGINEER AND MUNICIPAL BUILDING DEPARTMENT AND/OR MUNICIPAL ENGINEER FOR SUCH DEVIATIONS, CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE PAYMENT OF ALL COSTS INCURRED IN CORRECTING ANY WORK DONE WHICH DEVIATES FROM THE PLANS, ALL FINES AND/OR PENAL TIES ASSESSED WITH RESPECT THERE TO AND ALL COMPENSATORY OR PUNITIVE DAMAGES RESULTING THEREFROM. THE CONTRACTOR SHALL INDEMNIFY AND HOLD THE OWNER, ENGINEER, AND MUNICIPALITY HARMLESS FROM ALL SUCH COSTS RELATED TO SAME.
28. THESE NOTES SHALL APPLY TO ALL SHEETS IN THIS SET.

LAYOUT:

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL FIELD LAYOUT. THE CONTRACTOR SHALL TAKE TIES TO ALL UTILITY CONNECTIONS AND PROVIDE MARKED-UP AS BUILT PLANS FOR ALL UTILITIES SHOWING TIES TO CONNECTIONS, BENDS, VALVES, LENGTHS OF LINES AND INVERTS. AS-BUILT PLANS SHALL BE REVIEWED BY THE OWNER AND THE ENGINEER AND THE CONTRACTOR SHALL PROVIDE ANY CORRECTION OR ADDITIONS TO THE SATISFACTION OF THE OWNER OR THE ENGINEER BEFORE UTILITIES WILL BE ACCEPTED.
2. THE CONTRACTOR SHALL PROTECT EXISTING PROPERTY MONUMENTATION. ANY MONUMENTATION DISTURBED OR DESTROYED, AS JUDGED BY THE ENGINEER OR OWNER, SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE AND UNDER THE SUPERVISION OF A NEW YORK STATE LICENSED LAND SURVEYOR.
3. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY CONDITIONS THAT VARY FROM THOSE SHOWN ON THE PLANS. THE CONTRACTOR'S WORK SHALL NOT VARY FROM THE PLANS WITHOUT PRIOR REVIEW BY THE ENGINEER.
4. BUILDING DIMENSIONS TO BE TAKEN FROM ARCHITECTURAL BUILDING PLANS. NOTIFY THE ENGINEER OF ANY DEVIATION FROM CONDITIONS SHOWN ON THIS PLAN.
5. ALL HORIZONTAL AND VERTICAL CONTROL DATA ON THE PROJECT SHALL BE PROVIDED BY A LICENSED SURVEYOR.

TRENCHING & INSTALLATION NOTES:

- 1. ALL AREAS DISTURBED DURING TRENCHING AND WORK OPERATIONS MUST BE STABILIZED WITHIN 14 DAYS.
2. ALL TRENCHING IN PAVEMENT SHOULD BE SAW-CUT PRIOR TO TRENCHING. PAVEMENT RESTORATIONS MAY REQUIRE ADDITIONAL CUTBACKS BEFORE TRENCHING OPERATIONS HAVE BEEN COMPLETED.
3. ALL PAVED AREAS MUST BE RESTORED WITH A MINIMUM OF 4" TEMPORARY PAVING AT THE CLOSE OF EACH DAY'S WORK OPERATIONS.
4. PERMANENT PAVING MUST BE COMPLETED AT AMBIENT TEMPERATURES OF 40 DEGREES AND RISING. ANY PAVING OPERATIONS COMPLETED BELOW 40 DEGREES SHALL BE CONSIDERED TEMPORARY.
5. ALL SIGNS REMOVED FOR CONSTRUCTION MUST BE RESET USING TYPE A POSTS.

ROCK REMOVAL NOTES (IF REQUIRED):

- 1. ALL RECOMMENDED SAFETY REQUIREMENTS AND STANDARDS REFERENCED AND ANY LOCAL RESTRICTIONS SHALL BE APPLIED AS REQUIRED FOR SAFETY, SECURITY, AND SPECIFICALLY RELATED DETAILS FOR BLASTING PROCEDURES, AT ALL TIMES. FEDERAL, STATE, AND LOCAL LAWS AND ORDINANCES WILL BE FOLLOWED CONCERNING THE TRANSPORTATION AND STORAGE OF EXPLOSIVES.
2. A MINIMUM OF FOUR (4) WEEKS PRIOR TO COMMENCEMENT OF THE INITIAL BLASTING OPERATIONS, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING AGENCIES AS APPROPRIATE: POLICE AGENCIES, GAS AND ELECTRIC SERVICE COMPANIES, TELEPHONE AND CABLE OPERATING COMPANIES, TOWN WATER AND SEWER DEPARTMENTS, NYS DOT, AND LOCAL FIRE, RESCUE, AND AMBULANCE SERVICES.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE RESULTING FROM THE USE OF EXPLOSIVES. EXPLOSIVES SHALL BE STORED IN A SECURE MANNER IN COMPLIANCE WITH FEDERAL, STATE, AND LOCAL LAWS AND ORDINANCES.
4. THE CONTRACTOR SHALL NOTIFY EACH PROPERTY AND UTILITY OWNER HAVING A BUILDING, STRUCTURE, OR OTHER INSTALLATION ABOVE OR BELOW GROUND IN PROXIMITY TO THE SITE OF THE WORK OF HIS INTENTION TO USE EXPLOSIVES. NOTICE SHALL BE GIVEN SUFFICIENTLY IN ADVANCE TO ENABLE THE OWNERS TO TAKE STEPS TO PROTECT THEIR PROPERTY. NOTICE SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR DAMAGE RESULTING FROM HIS BLASTING OPERATIONS.
5. THE CONTRACTOR SHALL SCHEDULE AND CONDUCT PRE-BLAST SURVEYS WITH PROPERTY OWNERS LOCATED IN THE AREA POTENTIALLY AFFECTED BY AIRBLAST OVERPRESSURE AND GROUND VIBRATION OR AS REQUIRED.
6. THE CONTRACTOR SHALL IMPLEMENT ENGINEERING MEASURES IN ORDER TO MINIMIZE THE POTENTIAL IMPACTS OF DUST, NOISE AND GROUND VIBRATION. BLAST VIBRATION CONTROL WILL BE ACHIEVED BY LIMITING THE CHARGE PER DELAY SO THAT THE PEAK PARTICLE VELOCITY REMAINS BELOW THE SPECIFIED LEVELS.
7. AN APPROPRIATELY QUALIFIED, LICENSED BLASTING SPECIALIST, WITH EXPERIENCE SHALL BE ONSITE AND SUPERVISE BLASTING OPERATIONS. AT ALL TIMES, THE BLASTING AREA SHALL BE RESTRICTED TO BLASTING OPERATIONS AND AUTHORIZED PERSONNEL ONLY.
8. PROTECTIVE MEASURES INCLUDING INSTALLATION OF SIGNAGE, NOTIFICATION OF NEARBY RESIDENTS, TRAFFIC CONTROL AS NECESSARY ALONG NEARBY ROADS, AUDIBLE PRE-BLAST WARNINGS, AND USE OF BLAST MATS SHALL BE IMPLEMENTED.
9. DELIVERY AND TRANSPORT OF EXPLOSIVES FROM THE POWDER MAGAZINE TO THE BLAST AREA WILL BE BY VEHICLES SPECIFICALLY DESIGNED FOR THIS USE BY THE CRITERIA OUTLINED IN THE SAFETY REQUIREMENTS. ONLY AUTHORIZED PERSONS WILL TRANSPORT AND HANDLE THE EXPLOSIVES AS DESIGNATED BY THE ISSUING AUTHORITY OF THOSE LICENSES FOR THIS PURPOSE.
10. MONITORING OF PEAK PARTICLE VELOCITY (INCHES/SECOND) AND PEAK AIRBLAST OVERPRESSURE (PSI) SHALL BE PERFORMED DURING ALL BLASTS.

SPECIAL NOTES:

- 1. MAINTENANCE AND PROTECTION OF TRAFFIC IS THE RESPONSIBILITY OF THE PERMITTEE. ANY SUBCONTRACTORS WORKING FOR THE PERMITTEE MUST HAVE A COPY OF THE HIGHWAY WORK PERMIT ON THE SITE AND MUST BE FAMILIAR WITH THE TRAFFIC CONTROL REQUIREMENTS. IT IS STRONGLY ADVISED THAT A "TAILGATE" SAFETY MEETING WITH EACH WORK CREW BE INITIATED BEFORE THE START OF WORK.
2. TRAFFIC CONTROL SCHEMES MUST BE IN PLACE, AND MAINTAINED, THROUGHOUT THE DURATION OF WORK.
3. ALL MAINTENANCE AND PROTECTION OF TRAFFIC TO BE IN ACCORDANCE WITH THE NATIONAL MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND THE NYS SUPPLEMENT.
4. ANYONE WORKING WITHIN THE HIGHWAY RIGHT-OF-WAY SHALL WEAR HIGH-VISIBILITY APPAREL MEETING THE ANSI 107-2004 CLASS II STANDARDS AND A HARD HAT.
5. AT THE START OF WORK ON THE PROJECT, ALL WORK ZONE TRAFFIC CONTROL DEVICES SHALL APPEAR IN "ACCEPTABLE" CONDITION. THESE DEVICES SHALL NOT BE ALLOWED TO FALL BELOW THE "MARGINAL" CONDITION AT ANY TIME DURING THE LIFE OF THE PROJECT. FADED AND DETERIORATED PANELS AND NON-STANDARD LEGENDS ARE NOT ACCEPTABLE.
6. FLAGGER SIGNS ARE TO BE USED ONLY WHEN A FLAGGER IS ACTUALLY PRESENT AND VISIBLE TO THE MOTORIST. THEY SHALL BE COVERED OR REMOVED AT ALL OTHER TIMES. STOP/SLOW PADDLES ARE REQUIRED.
7. NO LOW-MOUNTED SIGNS SHALL BE PERMITTED, EXCEPT FOR FLEXIBLE PANELS MEETING THE CURRENT SPECIFICATION REQUIREMENTS.

WINTER WORK:

SNOW PLOWING REQUIREMENTS:

- DUE TO POSSIBLE SNOW FALL AND HENCE SNOW PLOWING OPERATIONS, ANY STEEL PLATES USED TO COVER AN EXCAVATION SHALL BE:
1. RECESSED INTO THE PAVEMENT AND PINNED.
OR
2. PINNED WITH ASPHALT RAMPS PLACED ALONG ALL EDGES. RAMPS SHALL BE SLOPED AT 1 INCH RISE PER 6 FEET RUN MAXIMUM. "RAISE PLOW" SIGNS SUPPLEMENTED WITH TYPE A FLASHING LIGHTS MUST BE ERECTED AN APPROPRIATE DISTANCE BEFORE THE EXCAVATION; SIGNS AND LIGHTS MUST MEET NYS DOT MUTCD SPECIFICATIONS.

WINTER TIME EARTHWORK REQUIREMENTS:

- ALL PERMIT WORK UNDER CONSTRUCTION BETWEEN THE DATES OF NOVEMBER 1 THROUGH MAY 1 SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
1. GRANULAR OR OTHER FROST SUSCEPTIBLE MATERIAL SHALL NOT BE PLACED WHEN THE TEMPERATURE IS BELOW 32 DEGREES FAHRENHEIT.
2. FROZEN MATERIAL SHALL NOT BE INCORPORATED INTO EMBANKMENTS OR BACKFILLS.
3. MATERIAL SHALL NOT BE PLACED ON FROZEN GROUND.
4. THE MATERIAL SHALL BE COMPACTED IN ACCORDANCE WITH HIGHWAY DESIGN MANUAL CHAPTER 13 APPENDIX 13C REQUIREMENTS FOR NEW DESIGN AND CONSTRUCTION OF UNDERGROUND UTILITY INSTALLATIONS WITHIN THE STATE HIGHWAY RIGHT-OF-WAY. LATEST REVISION, AND/OR 004-015 (ENGINEERING INSTRUCTION).
5. ANY SPECIAL CONDITIONS AND RESTRICTIONS AS MAY BE IMPOSED BY THE DESIGN ENGINEER OR THE MUNICIPAL ENGINEER.

Table with 4 columns: REV., BY, DATE, DESCRIPTION. Contains revision history for subdivision plan preparation, sediment basin revision, final ads design, etc.

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100g BY MUST BE CONTACTED PRIOR TO ANY EXCAVATION OR DEMOLITION

JOB#: 22-013
SCALE: AS NOTED
DATE: 6/28/22
DRAWN: MM
CHECKED: MM
SHEET NO. 22 of 22