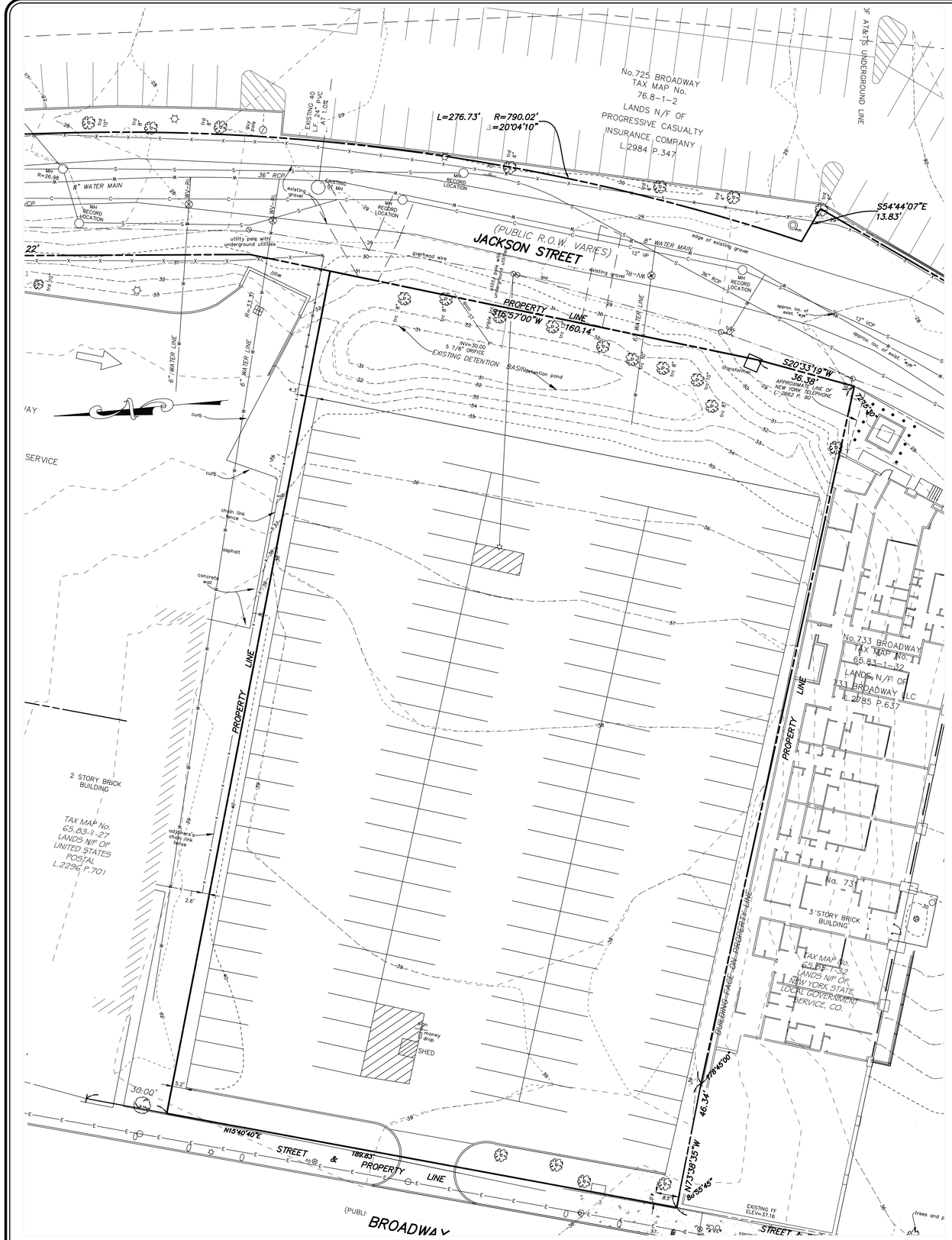

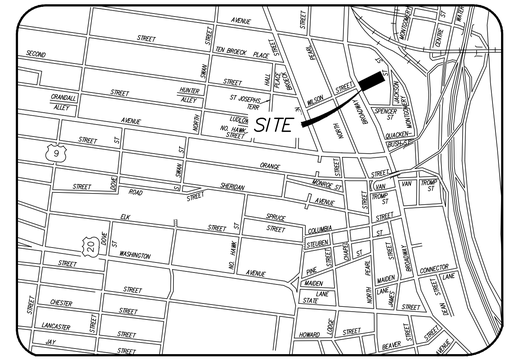

VICINITY MAP

MAP NOT TO SCALE

LEGEND

R.O.W.	RIGHT OF WAY	MH	MANHOLE
No.	NUMBER		CATCHBASIN
enc.	ENCROACHMENT		SIGN
P.O.B.	POINT OF BEGINNING		BOLLARD
S.F.	SQUARE FEET		FENCE LINE
N/F	NOW OR FORMERLY		GUARD RAIL
(127.12'= TAX MAP)	RECORD		OVERHEAD WIRE, UTILITY POLE & GUY WIRE
100.42'	MEASURED		TRAFFIC FLOW ACCESS AREA
N	NORTH	WV	WATER VALVE
S	SOUTH	GV	GAS VALVE
E	EAST		STREET LIGHT
W	WEST		CONCRETE
tel.	TELEPHONE		PAVEMENT
elec.	ELECTRIC		
L.	LIBER		
P.	PAGE		

SCHEDULE OF DRAWINGS

C1 EXISTING CONDITIONS
C2 DEMOLITION PLAN
C3 SITE PLAN
C4 STORM SEWER PLAN AND PROFILE
C5 SANITARY SEWER PLAN AND PROFILE
C6 WATER PLAN AND PROFILE
C7 LANDSCAPE AND PHOTOMETRIC PLAN
C8 DETAILS
C9 EROSION AND SEDIMENT CONTROL PLAN
C10 EROSION AND SEDIMENT CONTROL DETAILS
C11 WORK ZONE TRAFFIC PROTECTION PLAN
C12 CONSTRUCTION STAGING PLAN
C13 TRUCK ROUTING PLAN
C14 TRAFFIC MAINTENANCE
C15 TRAFFIC MAINTENANCE

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

HERSHBERG & HERSHBERG
Consulting Engineers and Land Surveyors
18 Locust Street
Albany, New York 12203

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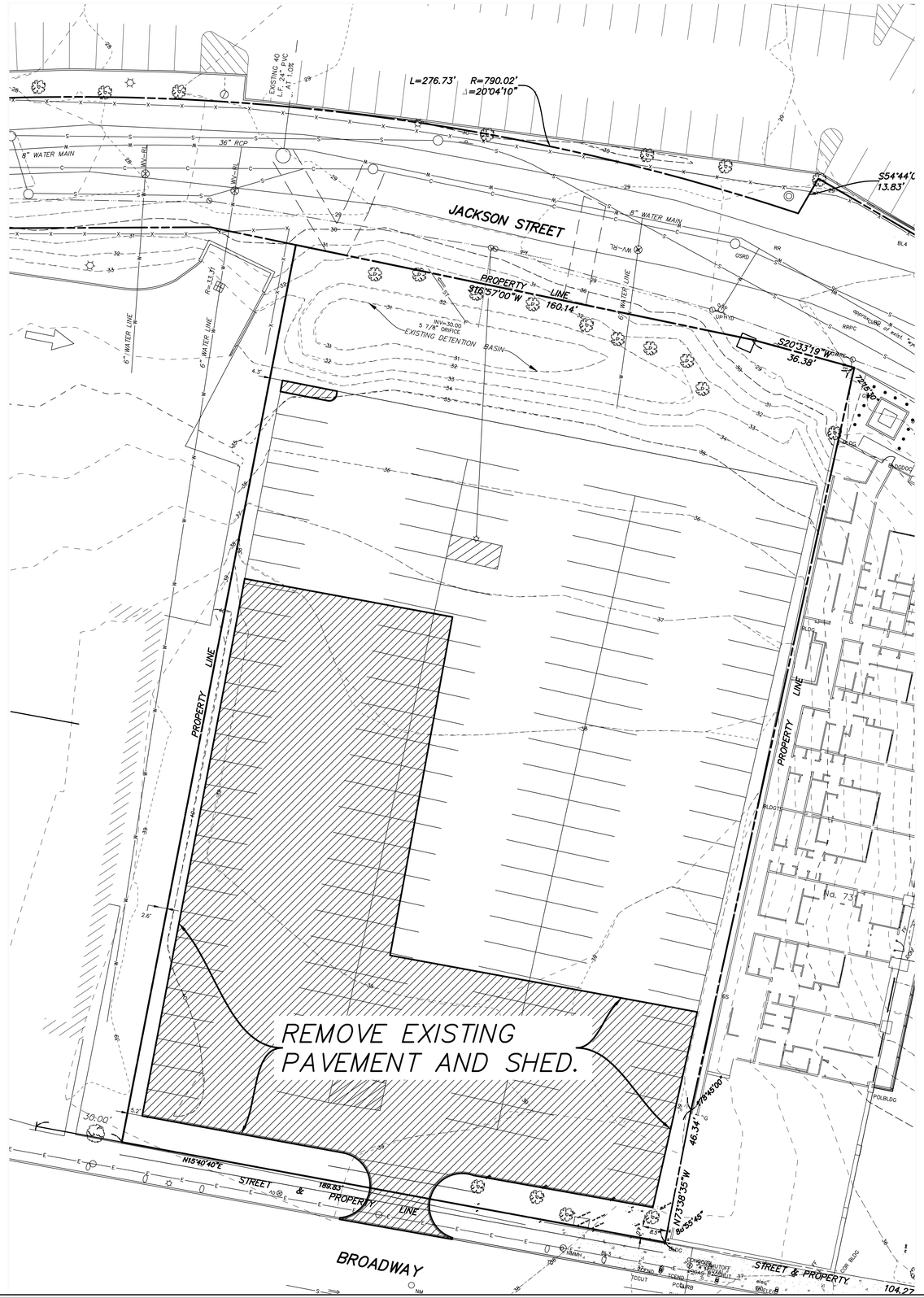
STATE OF NEW YORK
DANIEL R. HERSHBERG
044226
LICENSED PROFESSIONAL ENGINEER & LAND SURVEYOR

REVISIONS		DATE
	COMMENT LETTER DATED 10-3-2019	10-30-2019
	REVISED BUILDING DESIGN	12-2-2019
	COMMENT LETTER 1/20/2020	2-5-2020
	GENERAL REVISIONS	4/21/20

EXISTING CONDITIONS PLAN
745 BROADWAY
CITY OF ALBANY, STATE OF NEW YORK

FILE: 190071 | SCALE: AS NOTED | BY: RM | CHK: DRH | DATE: 5/5/19 | 190071-6.DWG

C1



LEGEND

R.O.W.	RIGHT OF WAY	MH	MANHOLE
No.	NUMBER		CATCHBASIN
enc.	ENCROACHMENT		SIGN
			BOLLARD
P.O.B.	POINT OF BEGINNING		FENCE LINE
S.F.	SQUARE FEET		GUARD RAIL
N/F	NOW OR FORMERLY		OVERHEAD WIRE, UTILITY POLE & GUY WIRE
(127.12'= TAX MAP)	RECORD		TRAFFIC FLOW ACCESS AREA
100.42'	MEASURED	WV	WATER VALVE
N	NORTH	GV	GAS VALVE
S	SOUTH		STREET LIGHT
E	EAST		CONCRETE
W	WEST		
tel.	TELEPHONE		
elec.	ELECTRIC		
L.	LIBER		
P.	PAGE		

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

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Consulting Engineers and Land Surveyors
18 Locust Street
Albany, New York 12203

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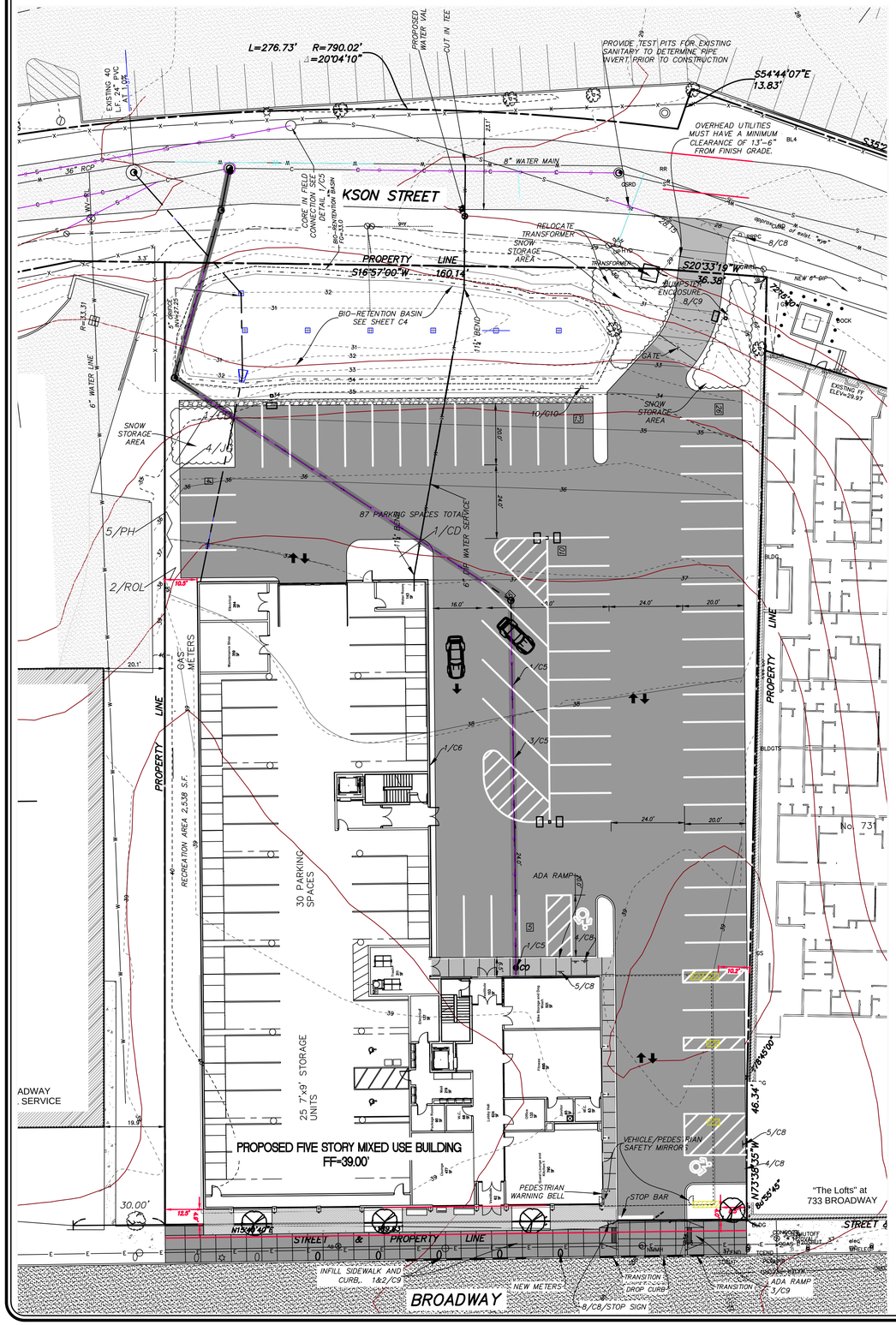
REVISIONS		
REMARKS	DATE	
COMMENT LETTER DATED 10-3-2019	10-30-2019	
REVISED BUILDING DESIGN	12-2-2019	
COMMENT LETTER 1/20/2020	2-5-2020	
GENERAL REVISIONS	4/21/20	

DEMOLITION PLAN
745 BROADWAY
CITY OF ALBANY, STATE OF NEW YORK

FILE: 190071 | SCALE: AS NOTED | BY: RM | CHK: DRH | DATE: 5/3/19 | 190071-6.DWG

C2



EXISTING TOTAL SITE COVERAGE STATISTICS

description	s.f.	acres	%
building area	0	0.0	0.0
pervious area	13,055	0.30	21.7
paved area	47,026	1.08	78.3
total area	60,081	1.38	100.00

PROPOSED TOTAL SITE COVERAGE STATISTICS

description	s.f.	acres	%
building area	22,000	0.50	36.6
paved/conc area	25,929	0.60	43.2
pervious area	12,152	0.28	20.2
total area	60,081	1.38	100.00

PARKING TABLE

SURFACE PARKING SPACES PROVIDED = 63

PARKING GARAGE SPACES = 30

TOTAL PARKING SPACES = 93 (INCLUDING 4 HC SPACES)

PARKING REQUIRED AT 1 PER DWELLING UNIT = 80

RECREATION SPACE TABLE:

OUTDOOR SPACE	2,538 SF
FITNESS CENTER	695 SF
GUEST LOUNGE	790 SF
ROOFTOP	1,510 SF
TOTAL RECREATION AREA	6,010 SF
REQUIRED (10%)	6,008 SF

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

LEGEND

- EXISTING WATER VALVE
- EXISTING POLE WITH LIGHT
- EXISTING LIGHT POLE
- EXISTING UTILITY POLE
- EXISTING SIGN
- EXISTING WATER MAIN
- EXISTING HYDRANT
- EXISTING SANITARY SEWER MAIN
- EXISTING STORM SEWER MAIN
- EXISTING CATCH BASIN
- EXISTING MANHOLE
- WATER SHUT OFF
- FENCE LINE
- EXISTING PAVEMENT
- EXISTING CONTOURS
- PROPOSED CONTOURS
- PROPOSED WATER MAIN
- PROPOSED HYDRANT
- PROPOSED SEWER MAIN
- PROPOSED STORM SEWER
- PROPOSED CATCH BASIN
- PROPOSED MANHOLE
- PROPOSED SIDEWALK AND HANDICAPPED RAMP
- DETECTABLE SURFACE
- PAVEMENT MARKINGS
- HANDICAPPED PARKING
- STOP BAR
- TRAFFIC FLOW MARKING
- LIMIT OF CLEARING
- EXIST. TREE LINE
- PROPOSED BUILDING
- PROPOSED CURB
- PROPOSED LIGHT POLE
- RETAINING WALL
- WITH GUIDE RAIL OR FALL PREVENTION FENCE AS NOTED ON THE DRAWING
- ADA RAMP
- DETECTABLE SURFACE
- DETAIL/SHEET NUMBER
- SNOW STORAGE AREA

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REMARKS	DATE
COMMENT LETTER DATED 10-3-2019	10-30-2019
REVISED BUILDING DESIGN	12-2-2019
COMMENT LETTER 1/30/2020	2-5-2020
GENERAL REVISIONS	3-23-2020
GENERAL REVISIONS	4/21/20

REVISIONS

SITE PLAN
745 BROADWAY
CITY OF ALBANY, STATE OF NEW YORK

FILE: 190071 | SCALE: AS NOTED | BY: WM | CHK: DRH | DATE: 5/3/19 | 190071-6.DWG

C3

GRAPHIC SCALE

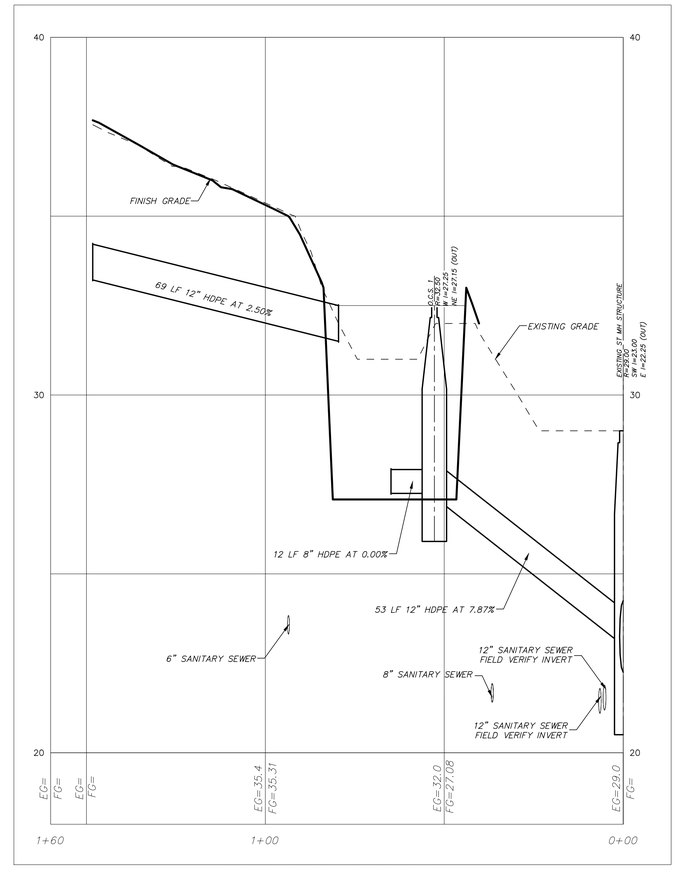
20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

STORM SEWER PLAN

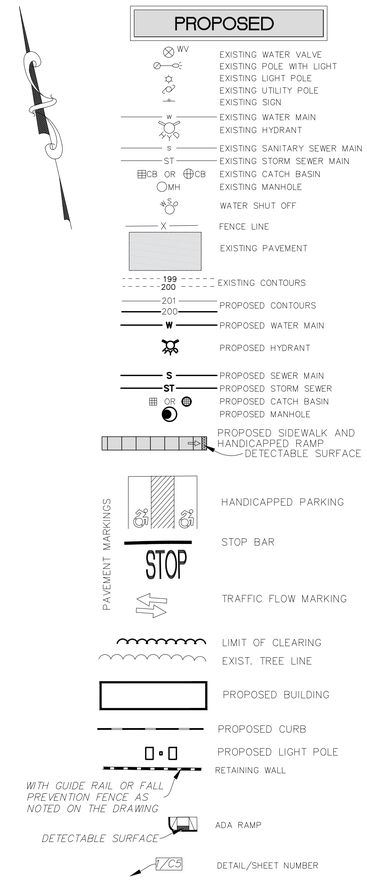
SCALE 1"=20'

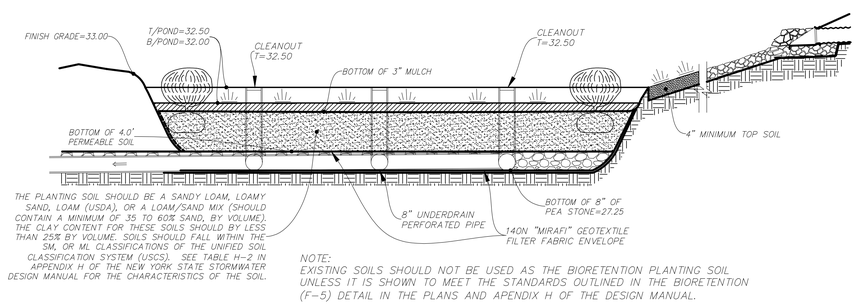
BIOTRETENTION BASIN PLANT MATERIAL SCHEDULE					
SYM	BOTANICAL NAME	COMMON NAME	SIZE	AMT	COMMENTS
		SHRUBS			
IV	ILEX VERICILLATA	WINTERBERRY	2 GAL.	8	CONTAINER GROWN
VD	VIBURNUM DENTATUM	ARROWWOOD VIBURNUM	2 GAL.	8	CONTAINER GROWN
		HERBACEOUS PLANTS			
OC	OSMUNDA CINNAMOMEA	CINNAMON FERN	#1 CONTAINER	100	CONTAINER GROWN



STORM SEWER PROFILE

SCALE (H) 1"=20'
SCALE (V) 1"=2'

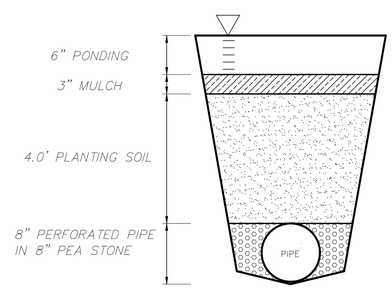




NOTE:
EXISTING SOILS SHOULD NOT BE USED AS THE BIORETENTION PLANTING SOIL UNLESS IT IS SHOWN TO MEET THE STANDARDS OUTLINED IN THE BIORETENTION (F-5) DETAIL IN THE PLANS AND APENDIX H OF THE DESIGN MANUAL.

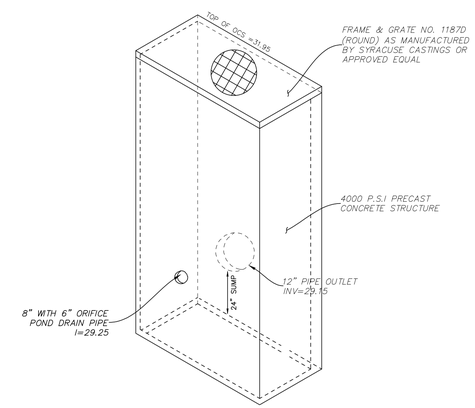
BIO-RETENTION BASIN PLAN VIEW PROFILE VIEW

NOT TO SCALE



SECTION DETAIL

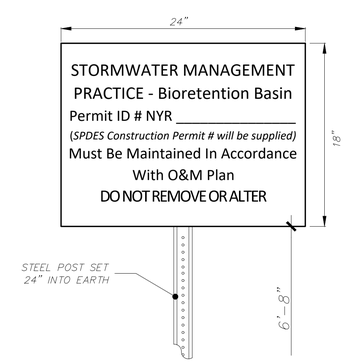
NOT TO SCALE



ORIFICE CONTROL STRUCTURE MIN. I.D. 3'x6' AND 30" ACCESS FRAME & COVER. 8" THICKNESS FOR TOP AND BOTTOM, 6" WALLS. SUBMIT SHOP DRAWINGS FOR APPROVAL

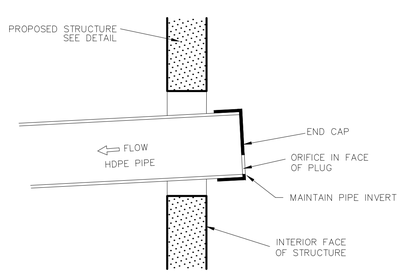
ORIFICE CONTROL STRUCTURE 1 (OSC#1) DETAIL

NOT TO SCALE



STORMWATER MANAGEMENT PRACTICE SIGN (AT BIORETENTION BASIN)

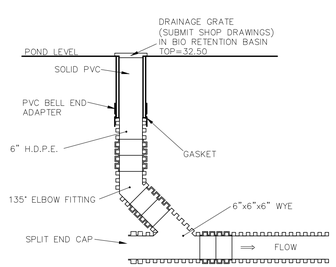
NOT TO SCALE



SEE DETENTION DETAIL FOR OUTLETS. SEE ORIFICE DETAILS

RESTRICTOR PLATE DETAIL

NOT TO SCALE



DRAINAGE GRATE FOR BIORETENTION BASIN

NOT TO SCALE

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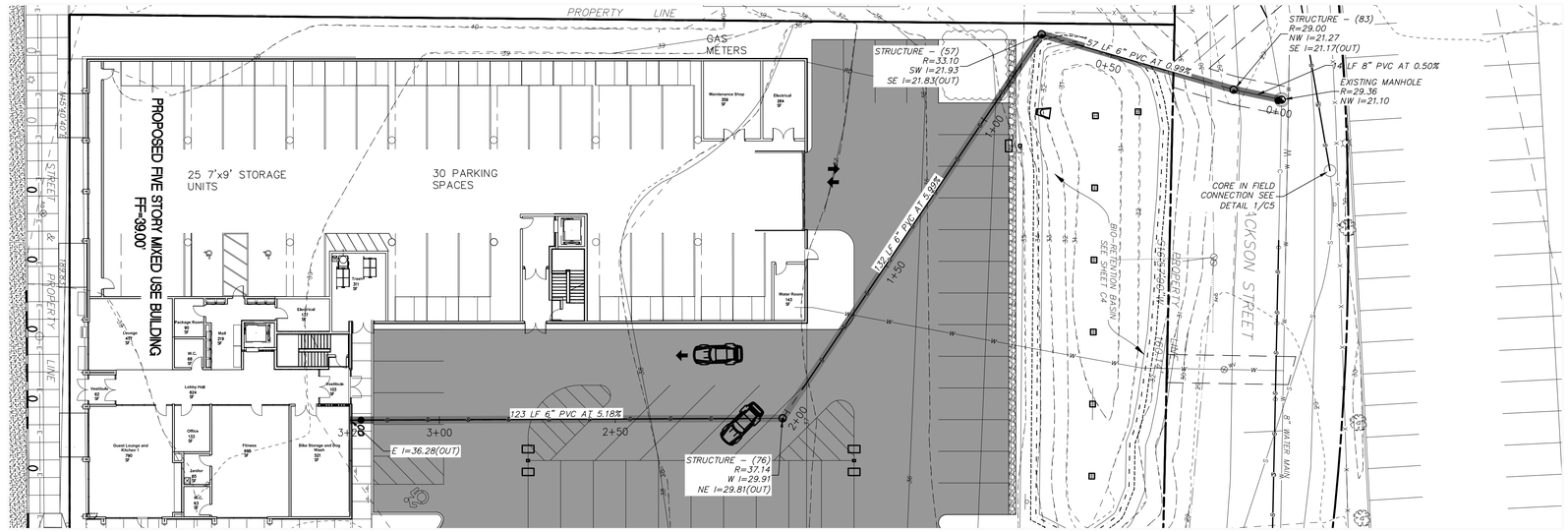
REVISIONS		
REMARKS	DATE	
COMMENT LETTER DATED 10-3-2019	10-10-2019	
REVISED BUILDING DESIGN	12-2-2019	
COMMENT LETTER 1/20/2020	2-5-2020	
GENERAL REVISIONS	4/21/20	

STORM SEWER PLAN AND PROFILE
745 BROADWAY
CITY OF ALBANY, STATE OF NEW YORK

FILE: 190371 | SCALE: AS NOTED | BY: RM | CHK: DRH | DATE: 5/21/19 | 190371-5.DWG

C4



SANITARY SEWER PLAN

SCALE 1"=20'

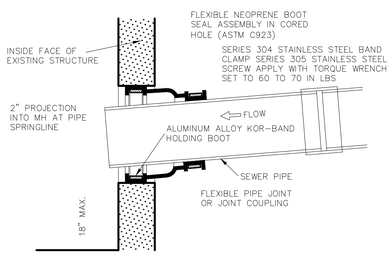
PROPOSED

- EXISTING WATER VALVE
- EXISTING POLE WITH LIGHT
- EXISTING LIGHT POLE
- EXISTING UTILITY POLE
- EXISTING SIGN
- EXISTING WATER MAIN
- EXISTING HYDRANT
- EXISTING SANITARY SEWER MAIN
- EXISTING STORM SEWER MAIN
- EXISTING CATCH BASIN
- EXISTING MANHOLE
- WATER SHUT OFF
- FENCE LINE
- EXISTING PAVEMENT
- EXISTING CONTOURS
- PROPOSED CONTOURS
- LIMIT OF CLEARING
- EXIST. TREE LINE
- PROPOSED BUILDING
- PROPOSED CURB
- PROPOSED WATER MAIN
- PROPOSED HYDRANT
- PROPOSED SEWER MAIN
- PROPOSED STORM SEWER
- PROPOSED CATCH BASIN
- PROPOSED MANHOLE
- PROPOSED SIDEWALK AND HANDICAPPED RAMP
- DETECTABLE SURFACE
- HANDICAPPED PARKING
- STOP BAR
- TRAFFIC FLOW MARKING
- PROPOSED LIGHT POLE
- RETAINING WALL
- WITH GUIDE RAIL OR FALL PREVENTION FENCE AS NOTED ON THE DRAWING
- ADA RAMP
- DETECTABLE SURFACE
- DETAIL/SHEET NUMBER

PAVEMENT MARKINGS

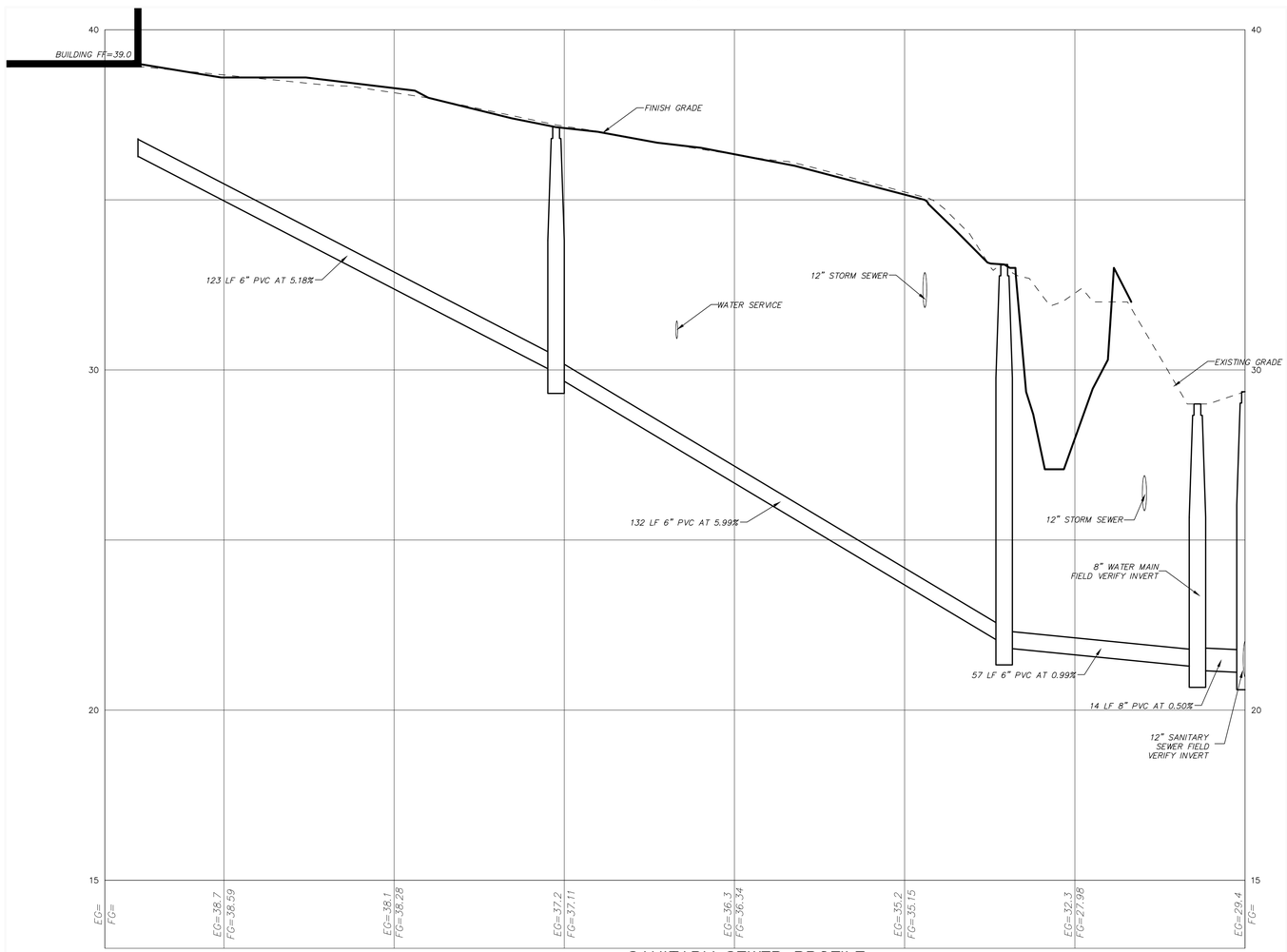
GRAPHIC SCALE

(IN FEET)
1 inch = 20 ft.



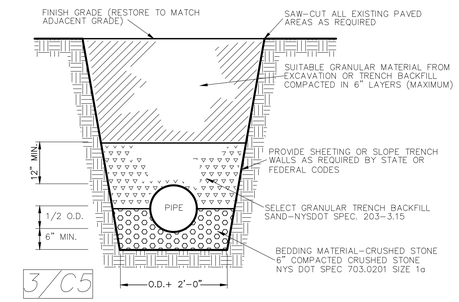
1/C5 **CORED IN FIELD CONNECTION**

NOT TO SCALE



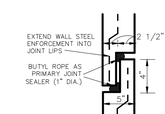
SANITARY SEWER PROFILE

SCALE (H) 1"=20'
SCALE (V) 1"=2'



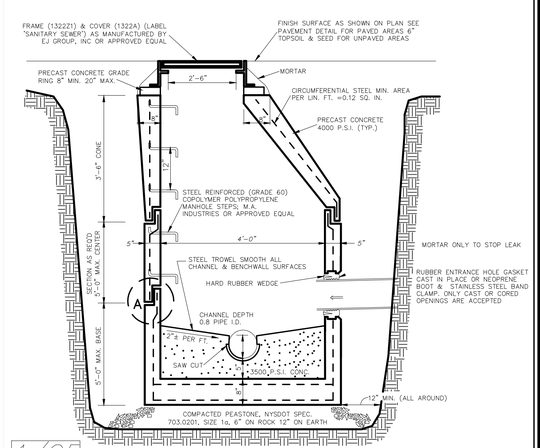
3/C5 **SANITARY SEWER TRENCH DETAIL**

NOT TO SCALE



DETAIL A

NOT TO SCALE



4/C5 **SANITARY SEWER MANHOLE DETAIL**

NOT TO SCALE

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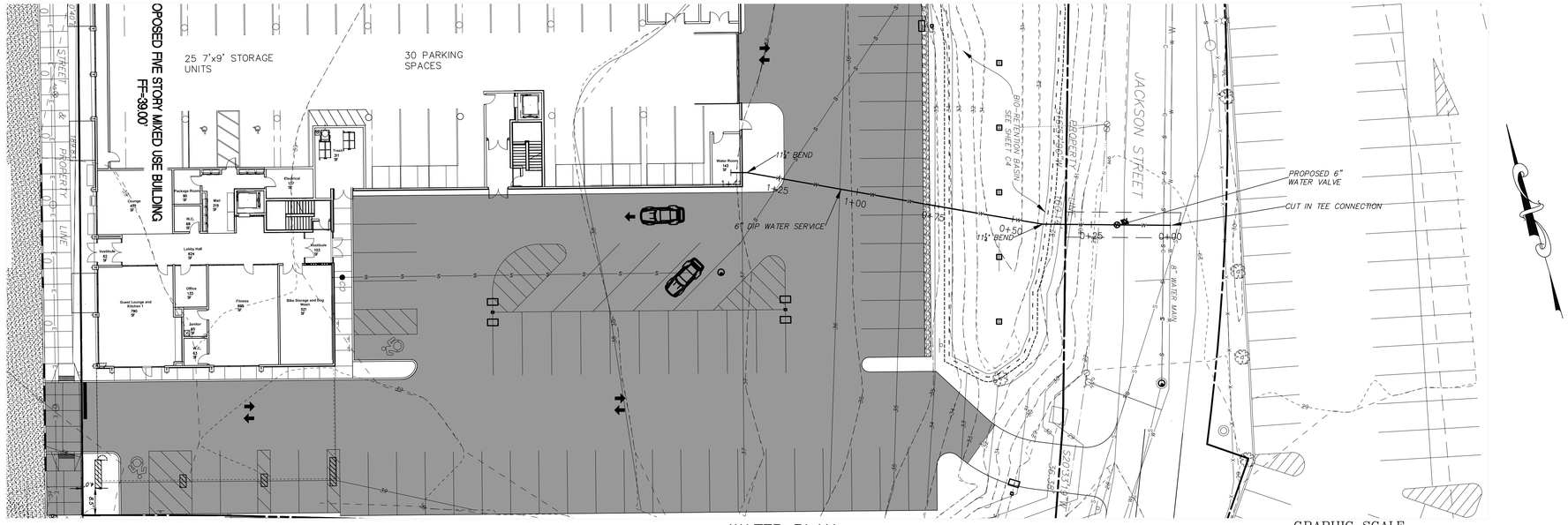
REMARKS	DATE
COMMENT LETTER DATED 10-5-2018	10-10-2018
REVISED BUILDING DESIGN	12-2-2019
SANITARY SEWER UPDATED	1-30-2020
COMMENT LETTER 1/30/2020	2-5-2020
GENERAL REVISIONS	4/21/20

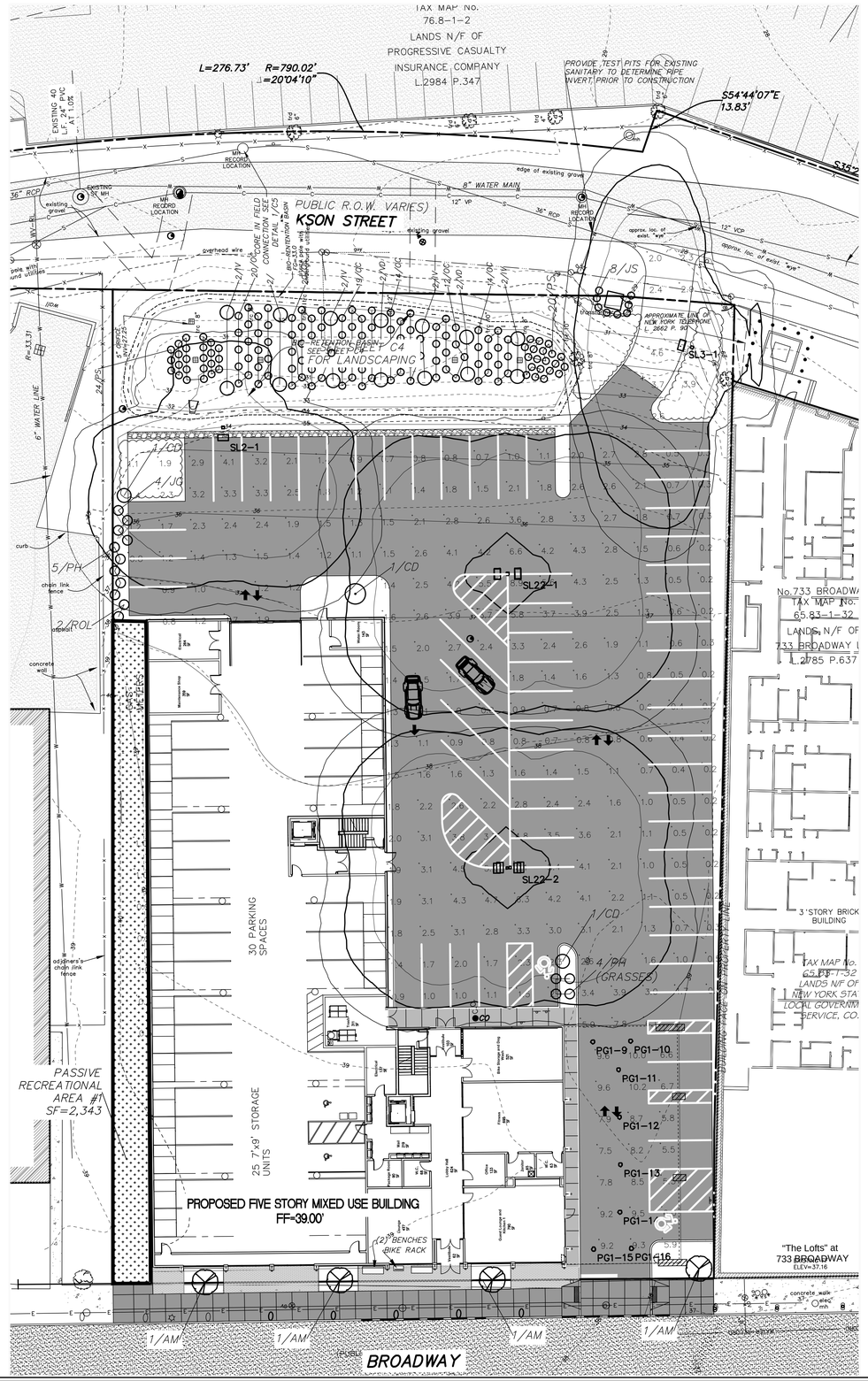
REVISIONS

SANITARY SEWER PLAN AND PROFILE
745 BROADWAY
CITY OF ALBANY, STATE OF NEW YORK

FILE: 190071 | SCALE: AS NOTED | BY: MM | CHK: DRH | DATE: 12/2/19 | 190071-6.DWG

C5


PROPOSED FIVE STORY MIXED USE BUILDING
FF=39.00'
25 7'x9' STORAGE UNITS
30 PARKING SPACES
STREET
PROPERTY LINE
Lounge 45 SF
Package Room 50 SF
Mail 39 SF
Trash 39 SF
Electrical 15 SF
Water Room 143 SF
W.C. 48 SF
Vestibule 52 SF
Lobby Hall 54 SF
Vestibule 153 SF
Guest Lounge and Kitchen 1 390 SF
Office 133 SF
Fitness 886 SF
Bike Storage and Dog Wash 551 SF
Janitor 24 SF
W.C. 48 SF
11¼° BEND
1+25
1+00
0+75
6" DIP WATER SERVICE
BIO-RETENTION BASIN SEE SHEET C4
0+50
11¼° BEND
0+25
0+00
PROPOSED 6" WATER VALVE
CUT IN TEE CONNECTION
JACKSON STREET
PROPERTY LINE
8" WATER MAIN
520337.4
29
39
39
39



PROPOSED

- EXISTING WATER VALVE
- EXISTING POLE WITH LIGHT
- EXISTING LIGHT POLE
- EXISTING UTILITY POLE
- EXISTING SIGN
- EXISTING WATER MAIN
- EXISTING HYDRANT
- EXISTING SANITARY SEWER MAIN
- EXISTING STORM SEWER MAIN
- EXISTING CATCH BASIN
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- WATER SHUT OFF
- FENCE LINE
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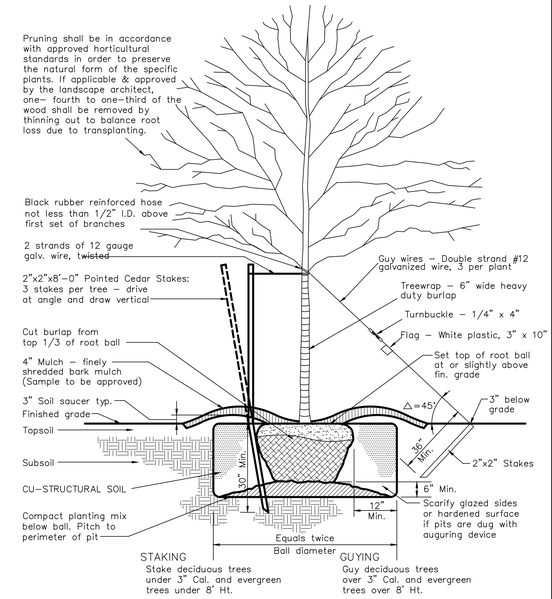
- PROPOSED SIDEWALK AND HANDICAPPED RAMP
- DETECTABLE SURFACE
- HANDICAPPED PARKING
- STOP BAR
- TRAFFIC FLOW MARKING
- LIMIT OF CLEARING
- EXIST. TREE LINE
- PROPOSED BUILDING
- PROPOSED CURB
- PROPOSED LIGHT POLE
- RETAINING WALL
- ADA RAMP
- DETAIL/SHEET NUMBER

PAVEMENT MARKINGS

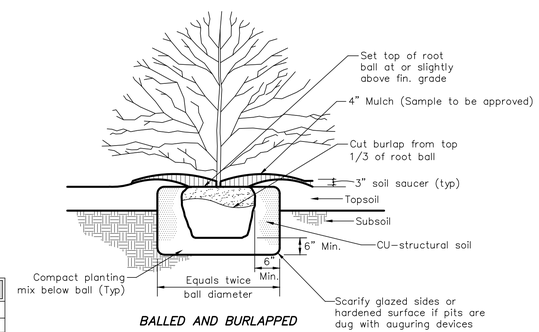
WITH GUIDE RAIL OR FALL PREVENTION FENCE AS NOTED ON THE DRAWING

DETECTABLE SURFACE



TREE PLANTING DETAIL

NOT TO SCALE



BALLED AND BURLAPPED

Notes:
1. In areas of mass planting, continuously excavate and mulch entire bed.
2. Do not add fertilizer to planting mix for fall planting.

SHRUB PLANTING DETAIL

NOT TO SCALE

PLANT MATERIAL SCHEDULE

SYM	BOTANICAL NAME	COMMON NAME	SIZE	AMT	COMMENTS
		SHRUBS			
JG	JUNIPERUS CHINENSIS 'SEA GREEN'	SEA GREEN JUNIPER	18" HT.	4	B & B
JS	JUNIPERUS CHINENSIS 'SPARTAN'	SPARTAN JUNIPER	5'-6" HT.	8	B & B
ROL	RHODODENDRON 'ORCHID LIGHTS'	ORCHID LIGHTS AZALEA	24"-30" HT.	2	B & B, NYNS
		TREES			
AM	AMELANCHIER CANADENIS 'ROBIN HILL'	SHADBLOW ROBIN HILL	2 1/2"-3" CAL.	5	B & B
CD	CERCIS CANADENSIS	EASTERN REDBUD	2"-2 1/2" CAL.	3	B & B
		GRASSES			
PH	PENNISETUM ALOPECURODES 'HAMELIN'	DWARF FOUNTAIN GRASS	#3 POT	9	CONTAINER GROWN

	SL1	0	Lithonia Lighting	DSX0 LED P4 40K T4M MVOLT SPA DDBXD SSS 14 4C DM19AS DDB	DSX0 LED P4 40K T4M MVOLT	LED	0.9	92
	SL2	1	Lithonia Lighting	DSX0 LED P4 40K TFTM MVOLT SPA DDBXD SSS 14 4C DM19AS DDB	DSX0 LED P4 40K TFTM MVOLT	LED	0.9	92
	SL22	2	Lithonia Lighting	DSX0 LED P4 40K TFTM MVOLT SPA DDBXD SSS 14 4C DM28AS DDB	DSX0 LED P4 40K TFTM MVOLT	LED	0.9	184
	SL3	1	Lithonia Lighting	DSX0 LED P4 40K T2M MVOLT SPA DDBXD SSS 14 4C DM19AS DDB	DSX0 LED P4 40K T2M MVOLT	LED	0.9	92
	PG1	16	Lithonia Lighting	VCPG LED P2 40K T5W MVOLT	VCPG LED WITH P2 – PERFORMANCE PACKAGE, 4000K, T5W OPTIC TYPE		0.9	33.96

Note
1. FIXTURE TYPES SL2, SL22 AND SL3 ARE SHOWN POLE MOUNTED AT 16' ABOVE FINISHED GRADE (14' POLE, 2' ABOVE GRADE BASE).

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

HERSHBERG & HERSHBERG
Consulting Engineers and Land Surveyors
18 Locust Street
Albany, New York 12203

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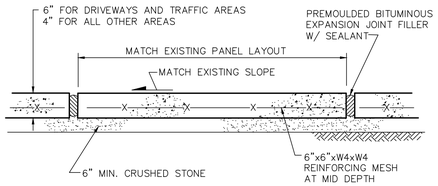
STATE OF NEW YORK · DANIEL R. HERSHBERG · 044226 · LICENSED PROFESSIONAL ENGINEER & LAND SURVEYOR

REVISIONS	DATE
REMARKS	
COMMENT LETTER DATED 10-3-2019	10-30-2019
REVISED BUILDING DESIGN	12-2-2019
COMMENT LETTER 1/20/2020	2-5-2020
GENERAL REVISIONS	4/21/20

LANDSCAPE AND PHOTOMETRIC PLAN
745 BROADWAY
CITY OF ALBANY, STATE OF NEW YORK

FILE: 190077 | SCALE: AS NOTED | BY: MM | CHK: DRH | DATE: 5/3/19 | 190077-6.DWG

C7



NOTES:
1. THE CONCRETE USED SHALL BE PORTLAND CEMENT, AIR-ENTRAINED, CLASS "A" CONCRETE WITH AN AIR CONTENT OF 5%, MIN., TO 7%, MAX., AND A SLUMP OF THREE INCHES, MIN., TO FIVE INCHES, MAX.

2. ALL CONCRETE SIDEWALK REPLACEMENT SHALL BE TO FULL PANEL LIMITS, PARTIAL PANEL REPLACEMENT SHALL NOT BE ALLOWED.

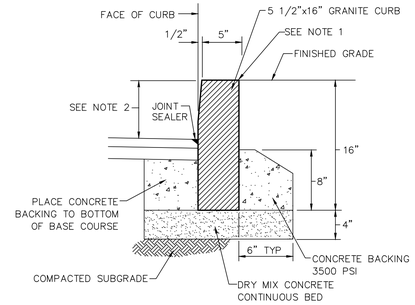
3. ALL SIDEWALKS SHALL BE FINISHED WITH A MAGNESIUM FLOAT FINISH UNLESS DIRECTED OTHERWISE BY THE CITY.

4. ALL CURBING SHALL BE RESET OR REPLACED AS REQUIRED, IN ACCORDANCE WITH CITY DETAILS.

5. EXPANSION JOINTS TO BE PLACED BETWEEN ADJACENT SLABS, AT BUILDING LINE, AT CURBS, OR AT PENETRATING STRUCTURES.

1/C8 SIDEWALK REPLACEMENT DETAIL SW-1

NOT TO SCALE



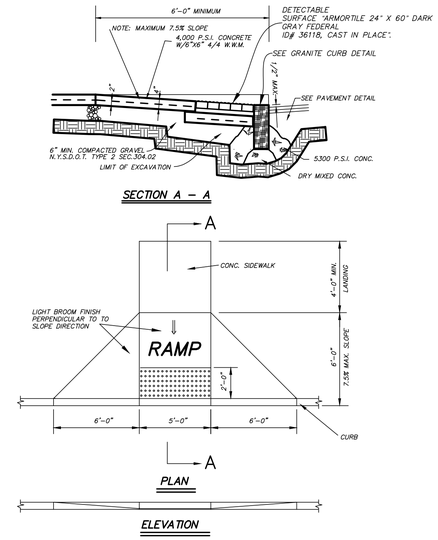
NOTE:

1. EXPANSION JOINT MATERIAL SHALL INSTALLED WHEN CURB IS SET AGAINST NEW OR EXISTING SIDEWALK AS ORDERED BY THE ENGINEER.

2. FOR NEW CONSTRUCTION, A 6" CURB REVEAL SHALL BE MAINTAINED, FOR CURB REPLACEMENT OR RESETTING, MATCH EXISTING REVEAL

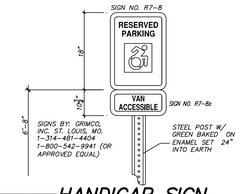
2/C8 GRANITE CURB INSTALLATION DETAIL

NOT TO SCALE



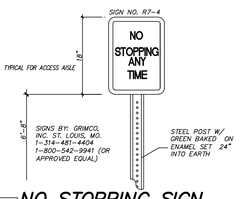
3/C8 HANDICAPPED RAMP PLAN

NOT TO SCALE



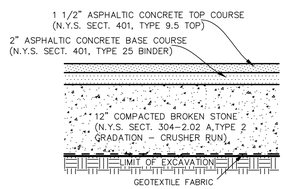
4/C8 HANDICAP SIGN

N.T.S. TYPICAL FOR PARKING SPACE



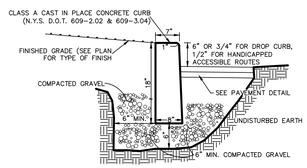
5/C8 NO STOPPING SIGN

N.T.S. TYPICAL FOR ACCESS AISLE



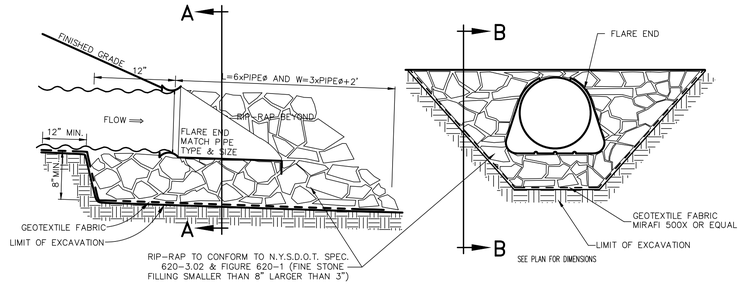
6/C8 PAVEMENT DETAIL

NOT TO SCALE



7/C8 CONCRETE CURB (CAST IN PLACE) DETAIL

NOT TO SCALE

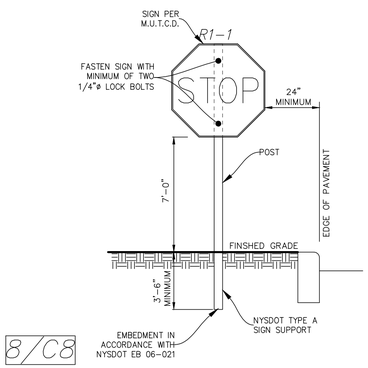


SECTION B–B

SECTION A–A

10/C8 FLARE END SECTION DETAIL

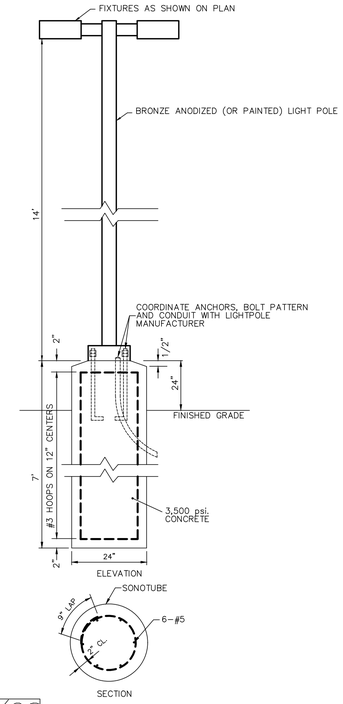
NOT TO SCALE



NOTE:
PAVEMENT AND SIGNAGE MARKINGS SHALL BE IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATION (FHWA) MUTCD.

8/C8 SIGN INSTALLATION DETAIL

NOT TO SCALE



9/C8 LIGHT POLE DETAIL

NOT TO SCALE

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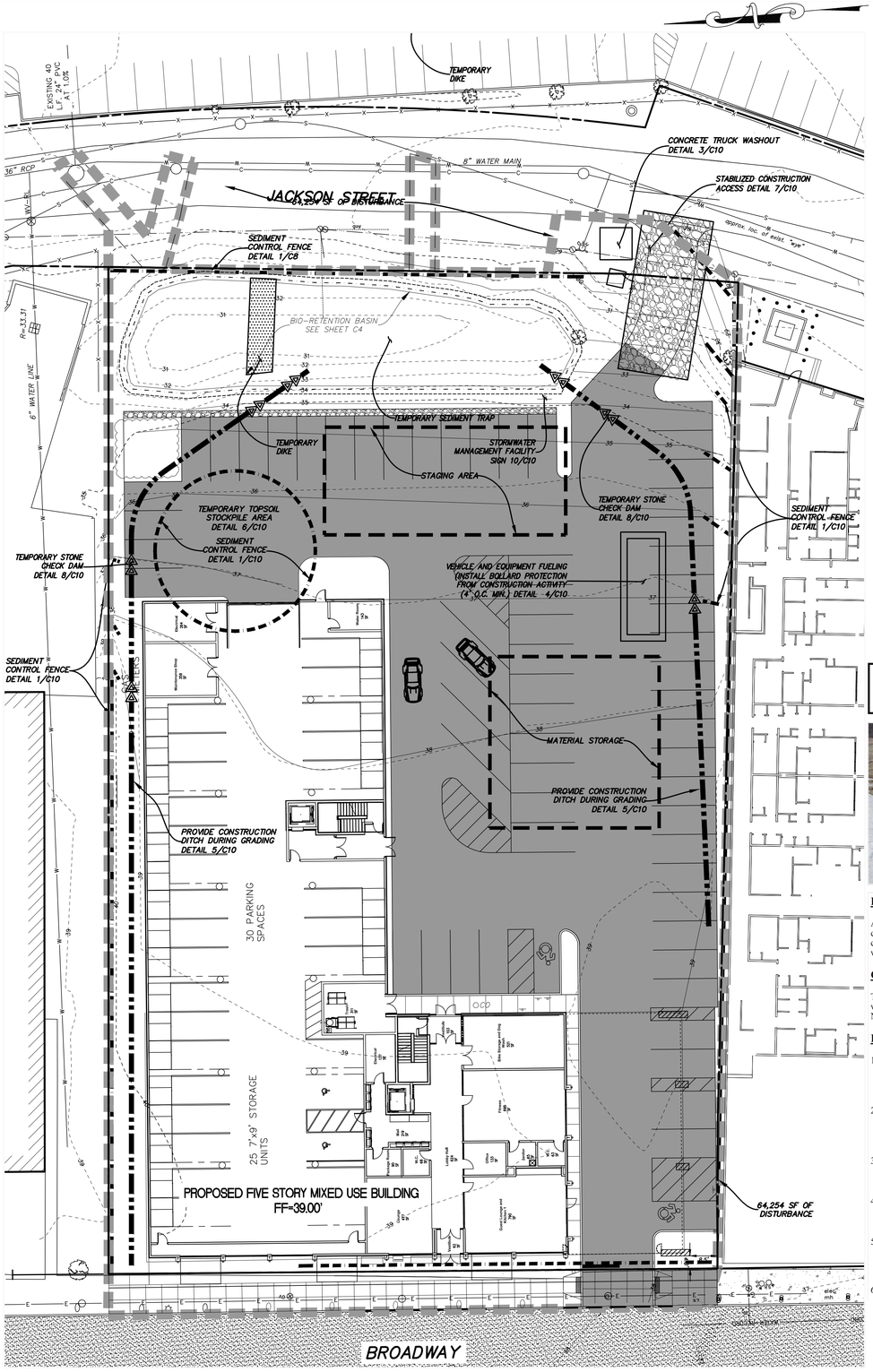
DETAILS
745 BROADWAY
CITY OF ALBANY, STATE OF NEW YORK

FILE: 190071 | SCALE: AS NOTED | BY: RM | CHK: DRH | DATE: 5/3/19 | 190071-6.DWG

C8



GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

EROSION & SEDIMENT CONTROL PLAN
SCALE: 1"=20'

EROSION AND SEDIMENT CONTROL NOTES

1. THIS PROJECT IS AUTHORIZED UNDER NYSDEC SPDES GENERAL PERMIT GP-0-15-002.

2. ANY CONTRACTOR INVOLVED IN EARTHWORK ACTIVITIES, INCLUDING BUT NOT LIMITED TO: CLEARING, GRADING AND TRENCHING, SHALL REVIEW ALL PERMIT CONDITIONS AND CERTIFY UNDERSTANDING OF THESE CONDITIONS, IN WRITING. IT IS THE CONTRACTOR'S RESPONSIBILITY TO IMPLEMENT ALL EROSION CONTROLS DESCRIBED IN GP-0-15-002, AND IT IS NOT THE INTENT OF THESE DRAWINGS TO REPLACE OR DISSEMINATE THE PERMIT REQUIREMENTS. THE CONTRACTOR SHALL REMAIN IN COMPLIANCE WITH THE PERMIT AT ALL TIMES.

3. AT ALL TIMES SOIL DISTURBING ACTIVITIES SHALL REMAIN LESS THAN 1 ACRE. THE CONTRACTOR SHALL COORDINATE EARTHWORK ACTIVITIES AND IMPLEMENTATION OF SOIL STABILIZATION MEASURES TO ENSURE COMPLIANCE TO THIS PERMIT REQUIREMENT. THE SITE WILL BE MONITORED AT ALL TIMES TO ENSURE SOIL DISTURBANCE DOES NOT EXCEED 1 ACRE. IF THE SOIL DISTURBANCE EXCEEDS ONE ACRE AT ANY TIME, A STOP WORK ORDER WILL ISSUED UNTIL THE SITE RECEIVES COVERAGE UNDER SPDES GENERAL PERMIT FOR CONSTRUCTION ACTIVITY.

4. THE CONTRACTOR SHALL MAINTAIN A CLEAN CONSTRUCTION AND EQUIPMENT ENTRANCE WHENEVER PRACTICABLE.

5. DISTURBED AREAS SHALL BE STABILIZED WITHIN 14 DAYS OF COMPLETION OR SUSPENSION OF GRADING OPERATIONS.

6. INSTALL TEMPORARY & PERMANENT SEEDING IN ACCORDANCE WITH THE NEW YORK GUIDELINES FOR URBAN EROSION AND SEDIMENT CONTROL STANDARD AND SPECIFICATION FOR TEMPORARY CONSTRUCTION AREA SEEDING AND FOR MULCHING:

STANDARD AND SPECIFICATIONS FOR TEMPORARY CONSTRUCTION AREA PLANTINGS, PAGE 4.58:
WATER MANAGEMENT PRACTICES MUST BE INSTALLED AS APPROPRIATE FOR SITE CONDITIONS. THE AREA MUST BE ROUGH GRADED AND SLOPES PHYSICALLY STABLE. LARGE DEBRIS AND ROCKS ARE USUALLY REMOVED. SEEDBED MUST BE SEEDED WITHIN 24 HOURS OF DISTURBANCE OR SCARIFICATION OF THE SOIL SURFACE WILL BE NECESSARY PRIOR TO SEEDING.

FERTILIZER OR LIME ARE NOT TYPICALLY USED FOR TEMPORARY SEEDINGS.

IF: SPRING OR SUMMER OR EARLY FALL, THEN SEED THE AREA WITH RYEGRASS (ANNUAL OR PERENNIAL) AT 30 LBS. PER ACRE. (APPROXIMATELY 0.7 LB./1000 SQ. FT. OR USE 1 LB./1000 SQ. FT.)

IF: LATE FALL OR EARLY WINTER, THEN SEED CERTIFIED 'AROOSTOOK' WINTER RYE (CEREAL RYE) AT 1000 LBS. PER ACRE (2.5 LBS./1000 SQ. FT.).

ANY SEEDING METHOD MAY BE USED THAT WILL PROVIDE UNIFORM APPLICATION OF SEED TO THE AREA AND RESULT IN RELATIVELY GOOD SOIL TO SEED CONTACT.

MULCH THE AREA WITH HAY OR STRAW AT 2 TONS/ACRE (APPROX. 90 LBS./1000 SQ. FT. OR 2 BALES). QUALITY OF HAY OR STRAW MULCH ALLOWABLE WILL BE DETERMINED BASED ON LONG TERM USE AND VISUAL CONCERNS. MULCH ANCHORING WILL BE REQUIRED WHERE WIND OR AREAS OF CONCENTRATED WATER ARE OF CONCERN. WOOD FIBER HYDROMULCH OR OTHER SPRAYABLE PRODUCTS APPROVED FOR EROSION CONTROL (NYLON WEB OR MESH) MAY BE USED IF APPLIED ACCORDING TO MANUFACTURERS' SPECIFICATIONS. CAUTION IS ADVISED WHEN USING NYLON OR OTHER SYNTHETIC PRODUCTS. THEY MAY BE DIFFICULT TO REMOVE PRIOR TO FINAL SEEDING AND CAN BE A HAZARD TO YOUNG WILDLIFE SPECIES.

MULCH ANCHORING GUIDE – TABLE 4.3, PAGE 4.41:

TABLE 4.3
MULCH ANCHORING GUIDE

ANCHORING METHOD OR MATERIAL	KIND OF MULCH TO BE ANCHORED	HOW TO APPLY
PEG AND TWINE	HAY OR STRAW	AFTER MULCHING, DIVIDE AREAS INTO BLOCKS APPROXIMATELY 1 SQ. YD. IN SIZE. DRIVE 4-6 PEGS PER BLOCK TO WITHIN 2" TO 3" OF SOIL SURFACE. SECURE MULCH TO SURFACE BY STRETCHING TWINE BETWEEN PEGS IN CROSS-CROSS PATTERN ON SECURE TWINE AROUND EACH PEG WITH 2 OR MORE TIGHT TURNS. DRIVE PEGS FLUSH WITH SOIL. DRIVING STAKES INTO GROUND TIGHTENS THE TWINE.
MULCH NETTING	HAY OR STRAW	STAPLE THE LIGHT-WEIGHT PAPER, JUTE, WOOD FIBER, OR PLASTIC NETTINGS TO SOIL SURFACE ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. SHOULD BE BIODEGRADABLE. MOST PRODUCTS ARE NOT SUITABLE FOR FOOT TRAFFIC.
WOOD CELLULOSE FIBER	HAY OR STRAW	APPLY WITH HYDROSEEDER IMMEDIATELY AFTER MULCHING. USE 500 LBS. WOOD FIBER PER ACRE. SOME PRODUCTS CONTAIN AN ADHESIVE MATERIAL ("TACKIFIER"), POSSIBLY ADVANTAGEOUS.
MULCH ANCHORING TOOL	HAY OR STRAW	APPLY MULCH AND PULL A MULCH ANCHORING TOOL (BLUNT, STRAIGHT DISCS) OVER MULCH AS NEAR TO THE CONTOUR AS POSSIBLE. MULCH MATERIAL SHOULD BE "TUCKED" INTO SOIL SURFACE ABOUT 3".
TACKIFIER	HAY OR STRAW	MIX AND APPLY POLYMERIC AND GUM TACKIFIERS ACCORDING TO MANUFACTURER'S INSTRUCTIONS. AVOID APPLICATION DURING RAIN. A 24-HOUR CURING PERIOD AND A SOIL TEMPERATURE HIGHER THAN 45° FAHRENHEIT ARE REQUIRED.

7. INSTALL PERMANENT RIP-RAP AT ALL PIPE END SECTIONS AT TIME OF INSTALLATION OF PIPE.

8. DURING EXCAVATION OF TEMPORARY SEDIMENT BASIN, FIELD VERIFY A MINIMUM OF 2' SEPARATION DISTANCE FROM GROUND WATER ELEVATION TO SURFACE SAND FILTERS WITH AN IMPERMEABLE BOTTOM AND 3' WITH A PERMEABLE BOTTOM. NOTIFY ENGINEER IMMEDIATELY IF THESE MINIMUM SEPARATION REQUIREMENTS DO NOT EXIST FOR ALTERNATIVE MEANS OF STORMWATER POLLUTION PREVENTION.

9. SEE REMAINDER OF PLANS FOR PERMANENT IMPROVEMENTS. PERMANENT IMPROVEMENTS SHOWN ON THIS PLAN ARE FOR REFERENCE ONLY.

10. PAVED AREAS ARE TO BE SWEPT DAILY TO REMOVE ANY SEDIMENT AND ALL NEWLY PAVED AREAS SHALL BE DIRECTED TO THE TEMPORARY OR FINAL SEDIMENT CONTROL BASINS.

STANDARD AND SPECIFICATIONS FOR WINTER STABILIZATION

Definition & Scope

A temporary site specific, enhanced erosion and sediment control plan to manage runoff and sediment at the site during construction activities in the winter months to protect off-site water resources.

Conditions Where Practice Applies

This standard applies to all construction activities involved with ongoing land disturbance and exposure between November 15th to the following April 1st.

Design Criteria

1. Prepare a snow management plan with adequate storage for snow and control of melt water, requiring cleared snow to be stored in a manner not affecting ongoing construction activities.

2. Enlarge and stabilize access points to provide for snow management and stockpiling. Snow management activities must not destroy or degrade installed erosion and sediment control practices.

3. A minimum 25 foot buffer shall be maintained from all perimeter controls such as silt fence. Mark silt fence with tall stakes that are visible above the snow pack.

4. Edges of disturbed areas that drain to a waterbody within 100 feet will have 2 rows of silt fence, 5 feet apart, installed on the contour.

5. Drainage structures must be kept open and free of snow and ice dams. All debris, ice dams, or debris from plowing operations, that restrict the flow of runoff and meltwater, shall be removed.

6. Sediment barriers must be installed at all appropriate perimeter and sensitive locations. Silt fence and other practices requiring earth disturbance must be installed before the ground freezes.

7. Soil stockpiles must be protected by the use of established vegetation, anchored straw mulch, rolled stabilization matting, or other durable covering. A barrier must be installed at least 15 feet from the toe of the stockpile to prevent soil migration and to capture loose soil.

8. In areas where soil disturbance activity has temporarily or permanently ceased, the application of soil stabilization measures should be initiated by the end of the next business day and completed within three (3) days. Rolled erosion control blankets must be used on all slopes 3 horizontal to 1 vertical or steeper.

9. If straw mulch alone is used for temporary stabilization, it shall be applied at double the standard rate of 2 tons per acre, making the application rate 4 tons per acre. Other manufactured mulches should be applied at double the manufacturer's recommended rate.

10. To ensure adequate stabilization of disturbed soil in advance of a melt event, areas of disturbed soil should be stabilized at the end of each work day unless:

    a. work will resume within 24 hours in the same area and no precipitation is forecast or;

    b. the work is in disturbed areas that collect and retain runoff, such as open utility trenches, foundation excavations, or water management areas.

11. Use stone paths to stabilize access perimeters of buildings under construction and areas where construction vehicle traffic is anticipated. Stone paths should be a minimum 10 feet in width but wider as necessary to accommodate equipment.

Maintenance

The site shall be inspected frequently to ensure that the erosion and sediment control plan is performing its winter stabilization function. If the site will not have earth disturbing activities ongoing during the "winter season", **all** bare exposed soil must be stabilized by established vegetation, straw or other acceptable mulch, matting, rock, or other approved material such as rolled erosion control products. Seeding of areas with mulch cover is preferred but seeding alone is not acceptable for proper stabilization.

Compliance inspections must be performed and reports filed properly in accordance with the SWPPP for all sites under a winter shutdown.

TEMPORARY EROSION AND SEDIMENT CONTROL NOTES

1. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED IN ACCORDANCE WITH THE JULY 2016 "NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL." (aka: THE BLUE BOOK) EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION ACTIVITIES.

2. IT IS THE INTENT OF THESE PLANS AND NOTES TO BE USED AS A GUIDE BY THE CONTRACTOR TO ENSURE THAT NO ERODED MATERIAL MIGRATES FROM THE SITE OR ENTERS ANY WATER COURSE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THIS GOAL IS MET, BY IMPLEMENTING THESE PLANS AND ANY ADDITIONAL MEANS THAT MAY BE NECESSARY. FURTHER MEASURES MAY BE REQUIRED BY THE CITY, VILLAGE, OR TOWN ENGINEER. WHILE MANY OF THE EROSION CONTROL DETAILS CONTAINED WITHIN THESE PLANS ARE TAKEN DIRECTLY FROM THE BLUE BOOK, THE CONTRACTOR SHOULD CONSIDER ANY OF THE DETAILS CONTAINED IN THE JULY 2016 NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL AS ACCEPTABLE PRACTICE IN THE APPROPRIATE APPLICATION.

3. THE DEVELOPER/CONTRACTOR OR HIS BUILDER SHALL INSPECT AND MAINTAIN EROSION CONTROL MEASURES WEEKLY AND AFTER EACH RAINFALL EVENT THROUGH THE ENTIRE DEVELOPMENT PROCESS. TO ASSURE PROPER FUNCTION, SILTATION BARRIERS SHALL BE MAINTAINED IN GOOD CONDITION AND REINFORCED, EXTENDED, REPAIRED, RE-SEEDED AND PROTECTED FROM FURTHER EROSION. ALL SEDIMENT ACCUMULATED SHALL BE REMOVED AND CONTAINED IN APPROPRIATE SPOIL AREAS. WATER SHALL BE APPLIED TO NEWLY SEEDED AREAS AS NEEDED UNTIL GRASS COVER IS WELL ESTABLISHED. DURING THESE PERIODIC INSPECTIONS, THE FOLLOWING ITEMS SHOULD BE PAID PARTICULAR ATTENTION:

A. THE BASIN INLET LOCATIONS SHALL BE INSPECTED FOR SILT ACCUMULATION CAUSED BY THE LACK OF ESTABLISHED SURROUNDING VEGETATION.
B. CATCH BASINS SHALL BE CHECKED FOR SEDIMENT ACCUMULATION.
C. RIP-RAP OUTLET PROTECTION SHALL ALSO BE CHECKED FOR SEDIMENT ACCUMULATION. IF SIGNIFICANT AMOUNTS OF SEDIMENT ACCUMULATE, RIP-RAP SHALL BE REMOVED AND REPLACED.
D. STONE CHECK DAMS AND SILT FENCING SHALL BE INSPECTED REGULARLY FOR UNDERMINING AND DETERIORATION.
E. SEEDED/MULCHED AREAS SHALL BE INSPECTED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHALL BE REPAIRED AS NECESSARY.

4. EROSION CONTROL DEVICES SHALL NOT BE REMOVED UNTIL THE ENGINEER HAS APPROVED FINAL STABILIZATION.

5. STONE CHECK DAMS AND SILT FENCE SHALL BE INSTALLED IN ACCORDANCE WITH PLAN AND DETAIL LOCATIONS AND AS DESCRIBED IN GP-0-15-002.

6. PRIOR TO CONSTRUCTION OF ANY PHASE, THE STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED.

7. CONSTRUCTION TRAFFIC SHALL NOT CROSS STREAMS OR DITCHES EXCEPT AT SUITABLE CROSSING FACILITIES. EQUIPMENT SHALL NOT OPERATE, UNNECESSARILY,

8. EXISTING PAVEMENT AREAS SHALL BE CLEANED AT THE DIRECTION OF THE ENGINEER.

9. WATER TRUCKS SHALL BE USED TO MINIMIZE DUST POLLUTION ON SITE, AND ON ADJACENT ROADWAYS ROADWAY AREAS AS DIRECTED BY THE ENGINEER.

10. ANY WATER PUMPED AS A RESULT OF DEWATERING ACTIVITIES SHALL BE PUMPED INTO A DEWATERING PIT.

11. CONCRETE WASHOUT AREAS SHALL BE DESIGNATED BY THE DESIGN ENGINEER AND PROTECTED IN ACCORDANCE WITH GP-0-15-002.

12. ALL AREAS DISTURBED IN THE CONSTRUCTION PROCESS SHALL BE RE-SEEDED AS SOON AS PRACTICABLE. PARTICULAR CARE SHALL BE TAKEN TO RE-SEED DISTURBED SLOPES IN A TIMELY MANNER.

13. IT IS RECOMMENDED THAT ALL EROSION CONTROL DEVICES BE PLACED FOR THE ENTIRE PHASE AS SHOWN ON THE EROSION CONTROL PLAN. PLACEMENT MAY BE DONE, HOWEVER, TO SUIT CONSTRUCTION SEQUENCING AS APPROVED BY THE ENGINEER.

14. STOCK PILES SHALL BE PROTECTED BY A SEDIMENT CONTROL FENCE OR TEMPORARY SEDIMENT CONTROL TRENCH PER GP-0-15-002. THESE FENCES/TRENCHES SHALL BE MAINTAINED IN GOOD CONDITION UNTIL SAID STOCK PILES ARE REMOVED AND STOCK PILING AREAS ARE PERMANENTLY STABILIZED.

15. STOCK PILES SHALL BE SEEDED UPON SUSPENSION OF WORK OR IF MATERIAL IS NOT TO BE USED WITHIN 14 DAYS, IN ACCORDANCE WITH GP-0-15-002.

16. IN NO CASE SHALL ERODIBLE MATERIALS BE STOCKPILED WITHIN 25 FEET OF ANY DITCH, STREAM OR OTHER SURFACE WATER BODY.

17. SILT FENCING SHALL BE INSTALLED AT THE DOWN GRADIENT PERIMETERS OF ALL SLOPES TO BE GRADED, PRIOR TO GRADING OPERATIONS.

18. SEDIMENT STILLING BASINS SHALL BE UTILIZED TO PREVENT OFF SITE EROSION.

19. THE STORMWATER DETENTION PONDS AND CUT-OFF SWALES SHALL BE COMPLETED PRIOR TO CONSTRUCTION OF ADJACENT AREAS.

20. WHERE NECESSARY, TEMPORARY GRADING WILL BE REQUIRED TO ROUTE STORMWATER TO CUT OFF SWALES AND DETENTION PONDS.

21. UPON INSTALLATION OF ANY CATCH BASIN, INSTALL EXCAVATED DROP INLET PROTECTION, THIS SHALL REMAIN UNTIL THE DRAINAGE AREA IS STABILIZED.

22. PRIOR TO ANY CONSTRUCTION ALL FEDERAL JURISDICTIONAL WETLANDS SHALL BE FIELD LOCATED AND DELINEATED WITH SILT FENCING AND ORANGE CONSTRUCTION FENCE. THE ORANGE FENCING SHALL BE INSTALLED AT THE ESTABLISHED WETLAND BUFFER LINE, AND THE SILT FENCE SHALL BE LOCATED BETWEEN THE BUFFER AND THE JOB SITE.

23. CLEARING OPERATIONS SHALL BE LIMITED TO ACTIVE WORK AREAS.

24. CARE SHALL BE TAKEN TO PRESERVE AS MUCH EXISTING VEGETATION AS POSSIBLE AND HEALTHY TREES OF DESIRABLE SPECIES SHALL BE PROTECTED.

25. RIP-RAP OUTLET PROTECTION: RIP-RAP SHALL BE PROVIDED AT CULVERT LOCATIONS AS INDICATED ON THESE DRAWINGS. THE RIP-RAP SHALL PROTECT SIDE SLOPES FROM EROSION, AND SHALL BE ESTABLISHED AS THE CULVERT IS INSTALLED.

26. STORM INLET PROTECTION: IMMEDIATELY FOLLOWING COMPLETION OF ANY AND ALL OF THE PROPOSED STORM DRAIN INLETS, STORM DRAIN INLET PROTECTION SHALL BE CONSTRUCTED. THIS PROTECTION SHALL FUNCTION TO PREVENT SEDIMENT ENTRANCE INTO THE STORM DRAINS. PROTECTION SHALL BE MAINTAINED IN GOOD CONDITION UNTIL THE DRAINAGE AREAS HAVE BEEN PERMANENTLY STABILIZED.

27. STONE CHECK DAMS SHALL BE PROVIDED AT ALL STORMWATER OUTLETS UNTIL VEGETATION HAS BEEN STABILIZED.

28. RECP (ROLLED EROSION CONTROL PRODUCT) SHALL BE JUTE OR EXCELSIOR MATTING. PROVIDE 4" MIN TOPSOIL AND SEED WITH KENTUCKY BLUEGRASS, CREEPING RED FESCUE AND PERENIAL RYGRASS AT A RATE OF 25, 20 AND 10 LBS PER ACRE RESPECTIVELY.

29. EROSION AND SEDIMENT CONTROL MEASURES SHALL INCLUDE A SWPPP MONITORING PROFESSIONAL AS WELL AS COORDINATION WITH MUNICIPALITY OFFICIALS IN ADDITION TO INSPECTION ROLES OF CONTRACTOR AND/OR SITE CONTRACTOR.

EROSION AND SEDIMENT CONTROL LEGEND

- PROPOSED SEDIMENT CONTROL FENCE
- PROPOSED PIPE OUTLET SEDIMENT TRAP
- PROPOSED DROP INLET PROTECTION
- PROPOSED TEMPORARY SWALE
- PROPOSED TEMPORARY STONE CHECK DAM
- PROPOSED LIMITS OF DISTURBANCE

TEMPORARY EROSION AND SEDIMENT CONTROL NOTES

CONSTRUCTION SEQUENCING & SEDIMENTATION AND EROSION CONTROL DURING CONSTRUCTION

The construction sequence for this project will be governed by the erosion and sediment control plan. Disturbances shall be less t16han 5 acres at any one time. Approximate timing is indicated where applicable in red following steps.

Prior to commencement of any work this SWPPP

- ✓ Assure that copy of SWMR & SWPPP is on the site. ON COMMENCEMENT
- ✓ Establish Qualified Individual who will be performing site inspection. ON COMMENCEMENT
- ✓ SWPPP Inspections must be performed by the qualified professional must be submitted to the MS4 Coordinator. From Commencement until filing the Notice of Termination.
- ✓ Establish Trained Contractor who will be on site. At least one Trained Contractor must be on site whenever ground disturbing activities are being undertaken. ON COMMENCEMENT
- ✓ Establish contact person for Contractor/Subcontractor. ON COMMENCEMENT
- ✓ **IN CASE OF ANY SPILLS OF MATERIALS ON SITE, EXECUTE SPILL RESPONSE PLAN CONTAINED IN APPENDIX #8**

Construction Sequence #1

- ✓ Commence work on site. WITHIN 10 DAYS OF PRE-CONSTRUCTION MEETING
- ✓ Install silt fence or other controls as indicated on the plan. PRIOR TO COMMENCEMENT OF ANY GRADING - FENCE TO REMAIN IN PLACE UNTIL ALL AREAS ARE STABILIZED.
- ✓ Grade and prepare construction access. PRIOR TO COMMENCEMENT OF ANY GRADING - CONSTRUCTION ACCESS TO REMAIN IN PLACE UNTIL ALL AREAS ARE STABILIZED.
- ✓ Commence installation of the temporary sediment trap, interception swale, and drop inlet protection. PRIOR TO BUILDING EXCAVATION.
- ✓ The existing pavement must be kept swept clean to avoid tracking materials onto any streets. CONTINUOUSLY FROM INCEPTION TO COMPLETION OF STABILIZATION OR FILING OF NOTICE OF TERMINATION.
- ✓ Maintain this area clean of debris and verify condition and safety of storage of materials listed below. Requires daily inspection. CONTINUOUSLY FROM INCEPTION TO FILING OF NOTICE OF TERMINATION.
- ✓ Any construction materials, chemicals or construction debris must be stored in sealed receptacles, trailers or buildings. Any storage piles of materials meant for installation (i.e., sand, etc.) must be surrounded by sedimentation fence. The list of anticipated materials stored on site during construction is provided below and must be updated if any additional materials are utilized: CONTINUOUSLY FROM INCEPTION TO FILING OF NOTICE OF TERMINATION.
  - Select Fill
  - Rip-rap
  - Concrete Structures
  - Pipes
  - Pipe Solvents
  - Concrete for building
  - Roofing Materials for Building
  - Metal Materials for Building
  - Building Materials for Building
- ✓ MSDS sheets must be available on site for all materials used or imported to the site. CONTINUOUSLY FROM INCEPTION TO FILING OF NOTICE OF TERMINATION.
- ✓ Any chemical spills must be contained immediately on site and reported to NYSDEC. CONTINUOUSLY FROM INCEPTION TO FILING OF NOTICE OF TERMINATION.
- ✓ Oil and grease spills from equipment shall be treated immediately. CONTINUOUSLY FROM INCEPTION TO FILING OF NOTICE OF TERMINATION.
- ✓ Commence installation of the interception swale. PRIOR TO GRADING.
- ✓ Clean interception swale and as required. CONTINUOUSLY FROM INSTALLATION UNTIL FILING OF NOTICE OF TERMINATION.
- ✓ Install building, and subsurface utilities. PRIOR TO FILING OF NOTICE OF TERMINATION.

Construction Sequence #2

- ✓ Maintain construction access. PRIOR TO COMMENCEMENT OF ANY GRADING - CONSTRUCTION ACCESS TO REMAIN IN PLACE UNTIL ALL AREAS ARE STABILIZED.
- ✓ Commence installation of the temporary sediment trap, interception swale, and drop inlet protection. PRIOR TO BUILDING EXCAVATION.
- ✓ The existing pavement must be kept swept clean to avoid tracking materials onto any streets. CONTINUOUSLY FROM INCEPTION TO COMPLETION OF STABILIZATION OR FILING OF NOTICE OF TERMINATION.
- ✓ Maintain this area clean of debris and verify condition and safety of storage of materials listed below. Requires daily inspection. CONTINUOUSLY FROM INCEPTION TO FILING OF NOTICE OF TERMINATION.
- ✓ Any construction materials, chemicals or construction debris must be stored in sealed receptacles, trailers or buildings. Any storage piles of materials meant for installation (i.e., sand, etc.) must be surrounded by sedimentation fence. The list of anticipated materials stored on site during construction is provided below and must be updated if any additional materials are utilized: CONTINUOUSLY FROM INCEPTION TO FILING OF NOTICE OF TERMINATION.
  - Select Fill
  - Rip-rap
  - Concrete Structures
  - Pipes
  - Pipe Solvents
  - Concrete for building
  - Roofing Materials for Building
  - Metal Materials for Building
  - Building Materials for Building
- ✓ MSDS sheets must be available on site for all materials used or imported to the site. CONTINUOUSLY FROM INCEPTION TO FILING OF NOTICE OF TERMINATION.
- ✓ Any chemical spills must be contained immediately on site and reported to NYSDEC. CONTINUOUSLY FROM INCEPTION TO FILING OF NOTICE OF TERMINATION.
- ✓ Oil and grease spills from equipment shall be treated immediately. CONTINUOUSLY FROM INCEPTION TO FILING OF NOTICE OF TERMINATION.
- ✓ Commence installation of the interception swale. PRIOR TO GRADING.
- ✓ Clean interception swale and as required. CONTINUOUSLY FROM INSTALLATION UNTIL FILING OF NOTICE OF TERMINATION.
- ✓ Install subsurface utilities. PRIOR TO FILING OF NOTICE OF TERMINATION.
- ✓ Install porous pavement. PRIOR TO FILING OF NOTICE OF TERMINATION.
- ✓ Prepare lawns and planters. PRIOR TO FILING OF NOTICE OF TERMINATION.
- ✓ Clean any downstream structures of any accumulated silt. PRIOR TO FILING OF NOTICE OF TERMINATION.
- ✓ Fine grade landscape beds. PRIOR TO FILING OF NOTICE OF TERMINATION.
- ✓ Place landscape materials. PRIOR TO FILING OF NOTICE OF TERMINATION.
- ✓ Seed and mulch. PRIOR TO FILING OF NOTICE OF TERMINATION.
- ✓ Obtain approval on Notice of Termination from MS4 coordinator after site has achieved >80% grass cover. PRIOR TO FILING OF NOTICE OF TERMINATION.
- ✓ File NOTICE OF TERMINATION.

CONSTRUCTION SEQUENCING AND PHASING NOTE:

1. ALL CONSTRUCTION SHALL BE INCLUDED UNDER ONE PHASE.

FOR MUNICIPAL APPROVAL ONLY-NOT INTENDED FOR CONSTRUCTION

HERSHBERG & HERSHBERG
Consulting Engineers and Land Surveyors
18 Locust Street
Albany, New York 12203

ALTERATION OF THIS DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, IS ILLEGAL

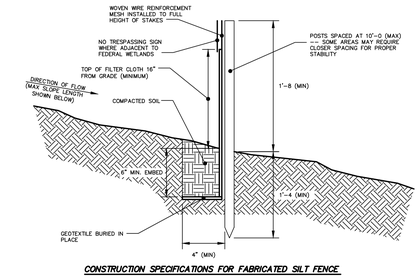
STATE OF NEW YORK · DANIEL R. HERSHBERG · LICENSED PROFESSIONAL ENGINEER & LAND SURVEYOR · 044226

REVISIONS	DATE
COMMENT LETTER DATED 10-3-2019	10-30-2019
REVISED BUILDING DESIGN	12-2-2019
COMMENT LETTER 1/20/2020	2-5-2020
GENERAL REVISIONS	4/21/20

EROSION AND SEDIMENT CONTROL PLAN
745 BROADWAY
CITY OF ALBANY, STATE OF NEW YORK

FILE: 190071 | SCALE: AS NOTED | BY: MLW | CHK: DRH | DATE: 7/24/19 | 190071-6.DWG

C9



CONSTRUCTION SPECIFICATIONS FOR FABRICATED SILT FENCE

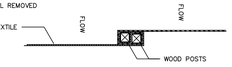
1. INSTALL SILT FENCE IN ACCORDANCE WITH THE JULY 2016 "THE NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL".
2. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OF "U" TYPE OR HARDWOOD.
3. FILTER CLOTH TO BE TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 6" MAX. MESH OPENING.
4. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
5. PREFABRICATED UNITS SHALL MEET THE MINIMUM REQUIREMENTS SHOWN.
6. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

POSTS: STEEL EITHER "T" OR "U" TYPE OR 2" HARDWOOD

FENCE: WOVEN WIRE, 12 1/2 GA. 6" MAX. MESH OPENING

FILTER CLOTH: FILTER X, STABLINKA T140N OR APPROVED EQUAL.

PREFABRICATED UNIT: GEOFAB, ENVIROFENCE, OR APPROVED EQUAL.



WRAP ENDS OF SILT FENCE SECTIONS TOGETHER TO PREVENT FLOW OF SEDIMENT BETWEEN SECTIONS

DESIGN CRITERIA: — **SILT FENCE JOINT DETAIL**

1. DESIGN COMPUTATIONS ARE NOT REQUIRED FOR INSTALLATIONS OF 1 MONTH OR LESS. LONGER INSTALLATION PERIODS SHOULD BE DESIGNED FOR EXPECTED RUNOFF.
2. ALL SILT FENCES SHALL BE PLACED AS CLOSE TO THE AREA AS POSSIBLE, BUT AT LEAST 10 FEET FROM THE TOE OF A SLOPE STEEPER THAN 3H:1V, TO ALLOW FOR MAINTENANCE AND ROLL DOWN. THE AREA BEYOND THE FENCE MUST BE UNDISTURBED OR STABILIZED.
3. THE TYPE OF SILT FENCE SPECIFIED FOR EACH LOCATION ON THE PLAN SHALL NOT EXCEED THE MAXIMUM SLOPE LENGTH AND MAXIMUM FENCE LENGTH REQUIREMENTS SHOWN IN THE FOLLOWING TABLE:

Slope	Steepness	Slope Length/Fence Length (ft.) Standard (SF)	Reinforced (RSF)	Super (SSF)
<2%	<50:1	300/1500	N/A	N/A
2–10%	50:1 to 10:1	125/1000	250/2000	300/2500
10–20%	10:0 to 5:1	100/750	150/1000	200/1000
20–33%	5:1 to 3:1	60/500	80/750	100/1000
33–50%	3:1 to 2:1	40/250	70/350	100/500
>50%	>2:1	20/125	30/175	50/250

STANDARD SILT FENCE (SF) IS FABRIC ROLLS STAPLED TO WOODEN STAKES DRIVEN 16 INCHES IN THE GROUND.

REINFORCED SILT FENCE (RSF) IS FABRIC PLACED AGAINST WELDED WIRE FABRIC WITH ANCHORED STEEL POSTS DRIVEN 16 INCHES IN THE GROUND.

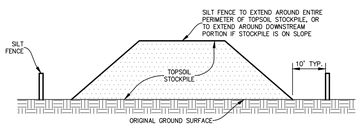
SUPER SILT FENCE (SSF) IS FABRIC PLACED AGAINST CHAIN LINK FENCE AS SUPPORT BACKING WITH POSTS DRIVEN 3 FEET IN THE GROUND.

4. SILT FENCE SHALL BE REMOVED AS SOON AS THE DISTURBED AREA HAS ACHIEVED FINAL STABILIZATION.

THE SILT FENCE SHALL BE INSTALLED IN ACCORDANCE WITH THE APPROPRIATE DETAILS. WHERE ENDS OF FILTER CLOTH COME TOGETHER, THEY SHALL BE OVERLAPPED, FOLDED AND STAPLED TO PREVENT SEDIMENT BYPASS. BUTT JOINTS ARE NOT ACCEPTABLE.

1 C10 SEDIMENT CONTROL FENCE INSTALLATION DETAIL

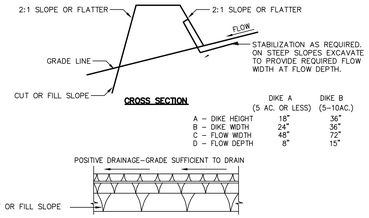
NOT TO SCALE



NOTES:
1. AN ON-SITE DRAINAGE SWALE SHALL BE LOCATED BETWEEN THE TOPSOIL STOCKPILE AND OFF-SITE PROPERTY.
2. REFERENCE IS MADE TO THE SILT FENCE DETAIL FOR MATERIALS AND INSTALLATION METHODS.
3. IF THE STOCKPILE IS TO REMAIN FOR MORE THAN 14 DAYS, IT SHALL BE STABILIZED WITH BURLAP MATTING OR SEEDED WITHIN 7 DAYS OF COMPLETION TO MINIMIZE EROSION.
4. INSPECTION OF SILT FENCES SHALL BE AT LEAST ONCE PER WEEK AND AFTER RAIN EVENTS IN EXCESS OF 1/2". REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
5. SEDIMENT TRAPPED BY THE FENCES SHALL BE REMOVED AND PROPERLY DISPOSED OF WHENEVER SIGNIFICANT ACCUMULATION OCCURS.
6. SILT FENCES SHALL BE MAINTAINED IN PLACE UNTIL TOPSOIL STOCKPILE HAS BEEN ELIMINATED AND SHALL BE REMOVED ONLY WHEN DIRECTED BY THE CITY.

6 C10 TEMPORARY TOPSOIL STOCKPILE DETAIL

NOT TO SCALE



CROSS SECTION

	DIKE A (5 AC. OR LESS)	DIKE B (5–10AC.)
A – DIKE HEIGHT	18"	36"
B – DIKE WIDTH	24"	36"
C – FLOW WIDTH	48"	72"
D – FLOW DEPTH	8"	15"

CONSTRUCTION SPECIFICATIONS:
1. ALL DIKES SHALL BE COMPACTED BY EARTH-MOVING EQUIPMENT.
2. ALL DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
3. TOP WIDTH MAY BE WIDER AND SIDE SLOPES BE FLATTER IF DESIRED TO FACILITATE CROSSING BY CONSTRUCTION TRAFFIC.
4. FIELD LOCATION SHOULD BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SAFE OUTLET.
5. EARTH DIKES SHALL HAVE AN OUTLET THAT FUNCTIONS WITH A MINIMUM OF EROSION. RUNOFF SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE SUCH AS A SEDIMENT TRAP OR SEDIMENT BASIN WHERE EITHER THE DIKE CHANNEL OR THE DRAINAGE AREA ABOVE THE DIKE ARE NOT ADEQUATELY STABILIZED.
6. FILL STABILIZATION SHALL BE: (A) IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SEED AND STRAW MULCH IF NOT IN SEEDING SEASON, (B) FLOW CHANNEL STABILIZATION PER THE STANDARD CHART BASED ON CHANNEL GRADE.

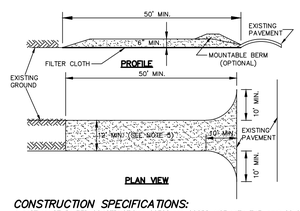
STABILIZATION:
1. STABILIZATION OF THE DIKE SHALL BE COMPLETED WITHIN 2 DAYS OF INSTALLATION IN ACCORDANCE WITH THE STANDARD AND SPECIFICATIONS FOR SEED AND STRAW MULCH OR STRAW MULCH ONLY IF NOT IN SEEDING SEASON. THE FLOW CHANNEL SHALL BE STABILIZED AS PER THE FOLLOWING CRITERIA:

TYPE OF TREATMENT	CHANNEL GRADE[1]	A(5 AC. OR LESS)	B(5 AC. –10AC)
1	0.5–3.0%	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1–5.0%	SEED AND STRAW MULCH	SEED AND COVER USING RECP[2]
3	5.1–8.0%	SEED AND COVER WITH RECP[2]	LINED WITH 4"–8" RIP–RAP OR GEOTEXTILE
4	8.1–20.0%	LINED WITH 4"–8" RIP–RAP OR GEOTEXTILE	SITE SPECIFIC DESIGN

[1] IN HIGHLY ERODIBLE SOILS, AS DEFINED BY THE LOCAL APPROVING AGENCY, REFER TO THE NEXT HIGHER SLOPE GRADE FOR TYPE OF STABILIZATION.
[2] ROLLED EROSION CONTROL PRODUCT.

2 C10 TEMPORARY EARTH DIKE DETAIL

NOT TO SCALE



PLAN VIEW

CONSTRUCTION SPECIFICATIONS:
1. INSTALL STABILIZED CONSTRUCTION ACCESS IN ACCORDANCE WITH THE JULY 2016 "NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL".

2. STONE SIZE – USE 1"–4" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.

3. LENGTH – NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).

4. THICKNESS– NOT LESS THAN (6) INCHES.

5. 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 ACCESS TO SITE.

6. GEOTEXTILE – WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.

7. SURFACE WATER – ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.

8. 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 TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.

9. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS ONTO AN APPROVED SEDIMENT TRAPPING DEVICE.

10. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

DESIGN CRITERIA:

AGGREGATE SIZE – USE A MATRIX OF 1"–4" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.

THICKNESS – NOT LESS THAN SIX (6) INCHES.

WIDTH – 12–FOOT MINIMUM BUT NOT LESS THAN THE FULL WIDTH OF POINTS WHERE INGRESS OR EGRESS OCCURS. 24–FOOT MINIMUM IF THERE IS ONLY ONE ACCESS TO THE SITE.

LENGTH – AS REQUIRED, BUT NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM WOULD APPLY).

GEOTEXTILE – TO BE PLACED OVER THE ENTIRE AREA TO BE COVERED WITH AGGREGATE. FILTER CLOTH WILL NOT BE REQUIRED ON A SINGLE-FAMILY RESIDENCE LOT. PIPING OF SURFACE WATER UNDER ENTRANCE SHALL BE PROVIDED AS REQUIRED. IF PIPING IS IMPOSSIBLE, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.

CRITERIA FOR GEOTEXTILE – THE GEOTEXTILE SHALL BE WOVEN OR NONWOVEN FABRIC CONSISTING ONLY OF CONTINUOUS CHAIN POLYMERIC FILAMENTS OR YARNS OF POLYESTER. THE FABRIC INERT TO COMMONLY ENCOUNTERED CHEMICALS, HYDRO-CARBONS, MILDEW, ROT RESISTANT, AND CONFORM TO THE FABRIC PROPERTIES AS SHOWN:

FABRIC PROPERTIES[3]	LIGHT DUTY[1] ROADS GRADE SUB-GRADE	HEAVY DUTY[2] HAUL ROADS ROUGH GRADED	TEST METHOD
GRAB TENSILE STRENGTH (LBS)	200	220	ASTM D1682
ELONGATION AT FAILURE (%)	50	60	ASTM D1682
MULLEN BURST STRENGTH (LBS)	190	430	ASTM D3786
PUNCTURE STRENGTH (LBS)	40	125	ASTM D751 MODIFIED
EQUIVALENT OPENING SIZE	40–80	40–80	US STD SIEVE
AGGREGATE DEPTH	6	10	CW–02215

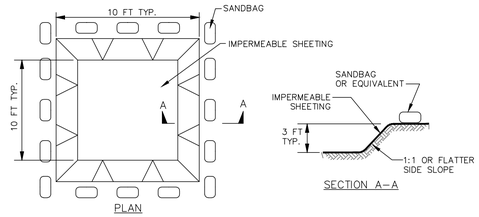
[1] LIGHT DUTY ROAD: AREA SITES THAT HAVE BEEN GRADED TO SUBGRADE AND WHERE MOST TRAVEL WOULD BE SINGLE AXLE VEHICLES AND AN OCCASIONAL MULTI-AXEL TRUCK. ACCEPTABLE MATERIALS ARE TREVIRA SPUNBOND 1115, MIRAFI 100X, TYPAR 3401, OR EQUIVALENT.

[2] HEAVY DUTY ROAD: AREA SITES WITH ONLY ROUGH GRADING, AND WHERE MOST TRAVEL WOULD BE MULTI-AXLE VEHICLES. ACCEPTABLE MATERIALS ARE TREVIRA SPUNBOUND 1135, MIRAFI 600X, OR EQUIVALENT.

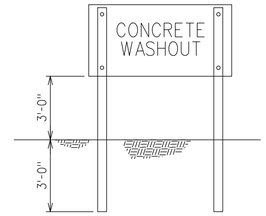
[3] FABRICS NOT MEETING THESE SPECIFICATIONS MAY BE USED ONLY WHEN DESIGN PROCEDURE AND SUPPORTING DOCUMENTATION AREA SUPPLIED TO DETERMINE AGGREGATE DEPTH AND FABRIC STRENGTH.

7 C10 STABILIZED CONSTRUCTION ACCESS DETAIL

NOT TO SCALE



EXCAVATED WASHOUT STRUCTURE



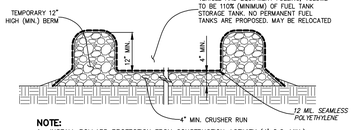
CONCRETE WASHOUT SIGN DETAIL

(OR EQUIVALENT)

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 SOLIDS 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 (E.G., RIPPED OR PUNCTURED). EMPTY OR REPLACE WASHOUT STRUCTURE THAT IS 75 PERSENT 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.

3 C10 ONSITE CONCRETE TRUCK WASHOUT STRUCTURE DETAIL

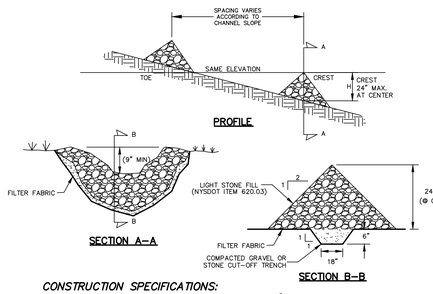
NOT TO SCALE



NOTE:
1. INSTALL BOLLARD PROTECTION FROM CONSTRUCTION ACTIVITY (4" O.C. MIN.).

4 C10 VEHICLE AND EQUIPMENT FUELING DETAIL

NOT TO SCALE



CONSTRUCTION SPECIFICATIONS:
1. INSTALL STONE CHECK DAM IN ACCORDANCE WITH THE JULY 2016 "NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL", SECTION 3 EROSION CONTROL – PART 1 RUNOFF CONTROL.

2. LIGHT STONE FILL (NYSDOT ITEM 620.03) SHALL BE PLACED ON A FILTER FABRIC FOUNDATION ACCORDING TO THE LINES, GRADES AND LOCATIONS SHOWN ON THE PLAN.

3. SET SPACING OF CHECK DAMS TO ASSUME THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION AS THE TOE OF THE UPSTREAM DAM.

4. EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.

5. PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.

6. ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO BLOCKAGE OR DAMAGE FROM DISPLACED STONE.

8. MAXIMUM DRAINAGE AREA 2 ACRES.

9. LOCATION OF CHECK DAMS SHALL BE AS REQUIRED TO PROVIDE ADEQUATE EROSION CONTROL AND MAY BE DIRECTED BY THE ENGINEER IN AREAS OTHER THAN SHOWN ON THIS PLAN DURING CONSTRUCTION AND UNTIL SITE IS STABILIZED.

DESIGN CRITERIA:

DRAINAGE AREA – MAXIMUM DRAINAGE AREA ABOVE THE CHECK DAM SHALL NOT EXCEED TWO (2) ACRES.

HEIGHT – NOT GREATER THAN 2 FEET. CENTER SHALL BE MAINTAINED 9 INCHES LOWER THAN ABUTMENTS AT NATURAL GROUND ELEVATION

SIDE SLOPES – SHALL BE 2:1 OR FLATTER.

SPACING – THE CHECK DAMS SHALL BE SPACED AS NECESSARY IN THE CHANNEL SO THAT THE CREST OF THE DOWNSTREAM DAM IS AT THE ELEVATION OF THE TO OF THE UPSTREAM DAM. THIS SPACING IS IS EQUAL TO THE HEIGHT OF THE CHECK DAM DIVIDED BY THE CHANNEL SLOPE.

FOR STONE CHECK DAMS – USE A WELL GRADED STONE MATRIX 2 TO 9 INCHES IN SIZE (NYS-DOT LIGHT STONE FILL MEETS THESE REQUIREMENTS).

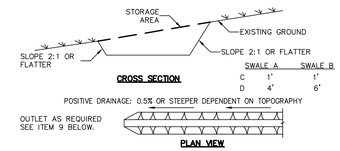
THE OVERFLOW OF THE CHECK DAMS WILL BE STABILIZED TO RESIST EROSION THAT MIGHT BE CAUSED BY THE CHECK DAM. SEE FIGURE 3.1 ON PAGE 3.3 FOR DETAILS.

CHECK DAMS SHOULD BE ANCHORED IN THE CHANNEL BY A CUTOFF TRENCH 1.5 FT. WIDE AND 0.5 FT. DEEP AND LINED WITH FILTER FABRIC TO PREVENT SOIL MIGRATION.

FOR FILTER SOCK OR FIBER ROLL CHECK DAMS – THE CHECK DAMS WILL BE ANCHORED BY STAKING THE DAM TO THE EARTH CONTACT SURFACE. THE DAM WILL EXTEND TO THE TOP OF THE BANK. THE CHECK DAM WILL HAVE A SPLASH APRON OF NYS DOT #2 CRUSHED STONE EXTENDING A MINIMUM 3 FEET DOWNSTREAM FROM THE DAM AND 1 FOOT UP THE SIDES OF THE CHANNEL. THE COMPOST AND MATERIALS FOR A FILTER SOCK CHECK DAM SHALL MEET THE REQUIREMENTS SHOWN IN THE STANDARD FOR COMPOST FILTER SOCK ON PAGE 5.7.

8 C10 TEMPORARY STONE CHECK DAM DETAIL

NOT TO SCALE



CROSS SECTION

	SWALE A	SWALE B
C	1'	1'
D	4'	6'

PLAN VIEW

CONSTRUCTION SPECIFICATIONS:
1. INSTALL CONSTRUCTION DITCHES IN ACCORDANCE WITH THE JULY 2016 "NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENTATION CONTROL", PAGE 3.4 AND AS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN OR WHEREVER NEEDED TO CONTROL THE FLOW OF RUNOFF.
2. ALL CONSTRUCTION DITCHES SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.
3. DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET DIRECTLY INTO AN UNDISTURBED STABILIZED AREA AT NON-EROSIVE VELOCITY.
4. ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE DITCH.
5. THE DITCH SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW.
6. FILLS SHALL BE COMPACTED BY EARTH MOVING EQUIPMENT.
7. ALL EARTH REMOVED AND NOT NEEDED FOR CONSTRUCTION SHALL BE PLACED SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE DITCH.
8. STABILIZATION SHALL BE AS PER THE FLOW CHANNEL STABILIZATION CHART BELOW:

TYPE OF TREATMENT	CHANNEL GRADE[1]	A(5 AC. OR LESS)	B(5 AC –10AC).
1	0.5–3.0%	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1–5.0%	SEED AND STRAW MULCH	SEED AND COVER USING RECP[2]
3	5.1–8.0%	SEED AND COVER WITH RECP[2]	LINED WITH 4"–8" RIP–RAP OR GEOTEXTILE
4	8.1–20.0%	LINED WITH 4"–8" RIP–RAP OR GEOTEXTILE	SITE SPECIFIC DESIGN

[1] IN HIGHLY ERODIBLE SOILS, AS DEFINED BY THE LOCAL APPROVING AGENCY, REFER TO THE NEXT HIGHER SLOPE GRADE FOR TYPE OF STABILIZATION.
[2] ROLLED EROSION CONTROL PRODUCT.

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

DESIGN CRITERIA:
1. STABILIZATION OF THE SWALE SHALL BE COMPLETED WITHIN 7 DAYS OF INSTALLATION IN ACCORDANCE WITH THE APPROPRIATE STANDARD AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION OR STABILIZATION WITH MULCH AS DETERMINED BY THE TIME OF YEAR.

2. IN HIGHLY ERODIBLE SOILS, AS DEFINED BY THE LOCAL APPROVING AGENCY, REFER TO THE NEXT HIGHER SLOPE GRADE FOR TYPE OF STABILIZATION.

3. RECYCLED CONCRETE EQUIVALENT SHALL BE CONCRETE BROKEN INTO THE REQUIRED SIZE AND SHALL CONTAIN NO STEEL REINFORCEMENT. NEW YORK STANDARDS AND SPECIFICATIONS PAGE 3.6 JULY 2016 FOR EROSION AND SEDIMENT CONTROL OUTLET.

4. SWALE SHALL HAVE AN OUTLET THAT FUNCTIONS WITH A MINIMUM OF EROSION, AND DISSIPATES RUNOFF VELOCITY PRIOR TO DISCHARGE OFF THE SITE.

5. RUNOFF SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE SUCH AS A SEDIMENT TRAP OR SEDIMENT BASIN UNTIL THE DRAINAGE AREA ABOVE THE SWALE IS ADEQUATELY STABILIZED.

6. THE ON-SITE LOCATION MAY NEED TO BE ADJUSTED TO MEET FIELD CONDITIONS IN ORDER TO UTILIZE THE MOST SUITABLE OUTLET CONDITION.

7. IF A SWALE IS USED TO DIVERT CLEAN WATER FLOWS FROM ENTERING A DISTURBED AREA, A SEDIMENT TRAPPING DEVICE MAY NOT BE NEEDED.

8. RECP (ROLLED EROSION CONTROL PRODUCT) SHALL BE JUTE OR EXCELSIOR MATTING. PROVIDE 4" MIN TOPSOIL AND SEED WITH KENTUCKY BLUEGRASS, CREEPING RED FESCUE AND PERENNIAL RYEGRASS AT A RATE OF 25, 20 AND 10 LBS PER ACRE RESPECTIVELY.

9. AS AN ALTERNATE PRACTICE TO CONSTRUCTION DITCHES, EARTH DIKES OR PERIMETER DIKE OR SWALES MAY BE USED. **SEE DETAILS THIS SHEET.**

10. ALL CONSTRUCTION DITCHES SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.

11. FILLS SHALL BE COMPACTED BY EARTH MOVING EQUIPMENT.

12. ALL EARTH REMOVED AND NOT NEEDED ON CONSTRUCTION SHALL BE PLACED SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE SWALE.

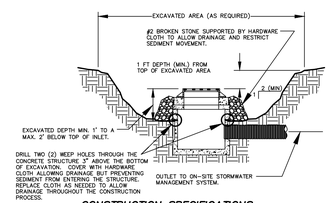
13. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

	DITCH A	DITCH A
DRAINAGE AREA	<5 ACRES	5–10 ACRES
BOTTOM WIDTH OF FLOW CHANNEL	4 FT.	6 FT.
DEPTH OF FLOW CHANNEL	1 FT.	1 FT.
SIDE SLOPES	2:1 OR FLATTER	2:1 OR FLATTER
GRADE	0.5% MIN. 10% MAX.	0.5% MIN. 10% MAX.

FOR DRAINAGE AREAS LARGER THAN 10 ACRES, REFER TO THE STANDARD AND SPECIFICATIONS FOR GRASSED WATERWAYS ON PAGES 3.23 AND 3.24.

5 C10 TEMPORARY CONSTRUCTION DITCH DETAIL

NOT TO SCALE



CONSTRUCTION SPECIFICATIONS:
1. INSTALL INLET PROTECTION IN ACCORDANCE WITH THE JULY 2016 "NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL".

2. CLEAR THE AREA OF ALL DEBRIS THAT WILL HINDER EXCAVATION.

3. GRADE APPROACH TO THE INLET UNIFORMLY AROUND THE BASIN.

4. WEEP HOLES SHALL BE PROTECTED BY 2"ø STONE OR GRAVEL.

5. UPON STABILIZATION OF CONTRIBUTING DRAINAGE AREA, SEAL WEEP HOLES, FILL EXCAVATION WITH STABLE SOIL TO FINAL GRADE, COMPACT IT PROPERLY AND STABILIZE WITH PERMANENT SEEDING.

6. THE MAXIMUM DRAINAGE AREA SHALL BE 1 ACRE.

DESIGN CRITERIA:
LIMIT THE DRAINAGE AREA TO THE INLET DEVICE TO ONE (1) ACRE. EXCAVATED SIDE SLOPES SHALL BE NO STEEPER THEN 2:1. THE MINIMUM DEPTH SHALL BE 1 FOOT AND THE MAXIMUM DEPTH 2 FEET AS MEASURED FROM THE CREST OF THE INLET STRUCTURE. SHAPE THE EXCAVATED BASIN TO FIT CONDITIONS WITH THE LONGEST DIMENSION ORIENTATED TOWARD THE LONGEST INFLOW AREA TO PROVIDE MAXIMUM TRAP EFFICIENCY. THE CAPACITY OF THE EXCAVATED BASIN SHOULD BE ESTABLISHED TO CONTAIN 900 CUBIC FEET PER ACRE OF DISTURBED AREA. WEEP HOLES, PROTECTED BY FABRIC AND STONE, SHOULD BE PROVIDED FOR DRAINING THE TEMPORARY POOL.

INSPECT AND CLEAN THE EXCAVATED BASIN AFTER EVERY STORM. SEDIMENT SHOULD BE REMOVED WHEN 50 PERCENT OF THE STORAGE VOLUME IS ACHIEVED. THIS MATERIAL SHOULD BE INCORPORATED INTO THE SITE IN A STABILIZED MANNER.

9 C10 EXCAVATED DROP INLET PROTECTION

NOT TO SCALE

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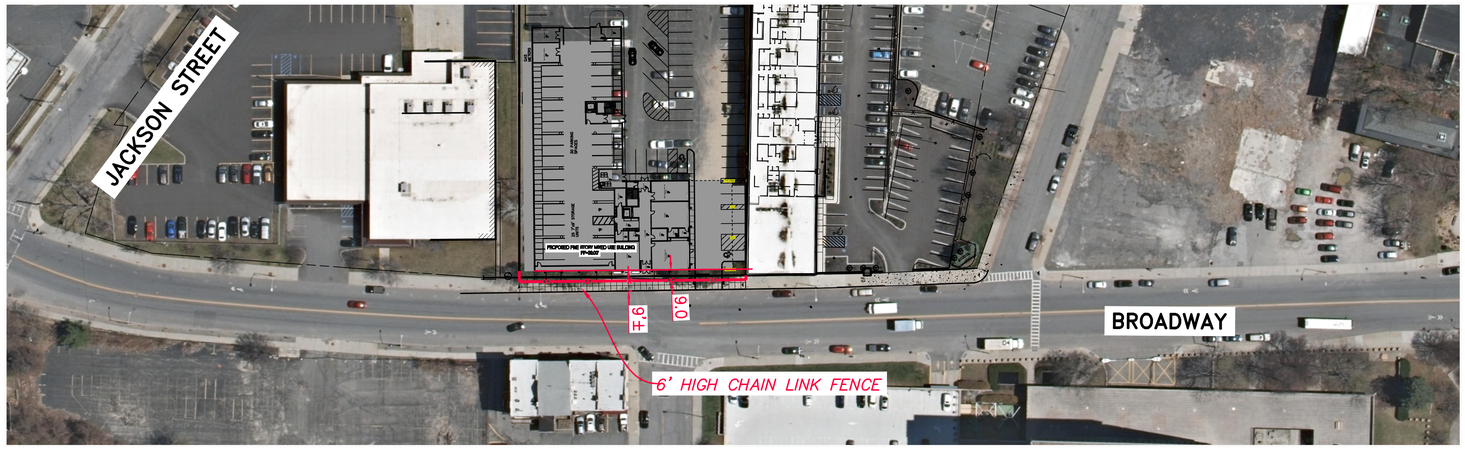
REVISIONS	DATE
REMARKS	
COMMENT LETTER DATED 10–3–2019	10–30–2019
REVISED BUILDING DESIGN	12–2–2019
COMMEN

PHASE I

FROM INCEPTION OF PROJECT UNTIL
FACADE IS UP TO 11 FOOT LEVEL



PHASE II

FROM FACADE AT 11 FOOT LEVEL UNTIL
FRONT FACADE IS COMPLETE TO ROOF LEVEL

PHASE III

FROM FRONT FACADE IS COMPLETE UNTIL
ALL BUILDING ACTIVITY IS COMPLETE.

GRAPHIC SCALE

60 0 30 60 120 240

(IN FEET)
1 inch = 60 ft.

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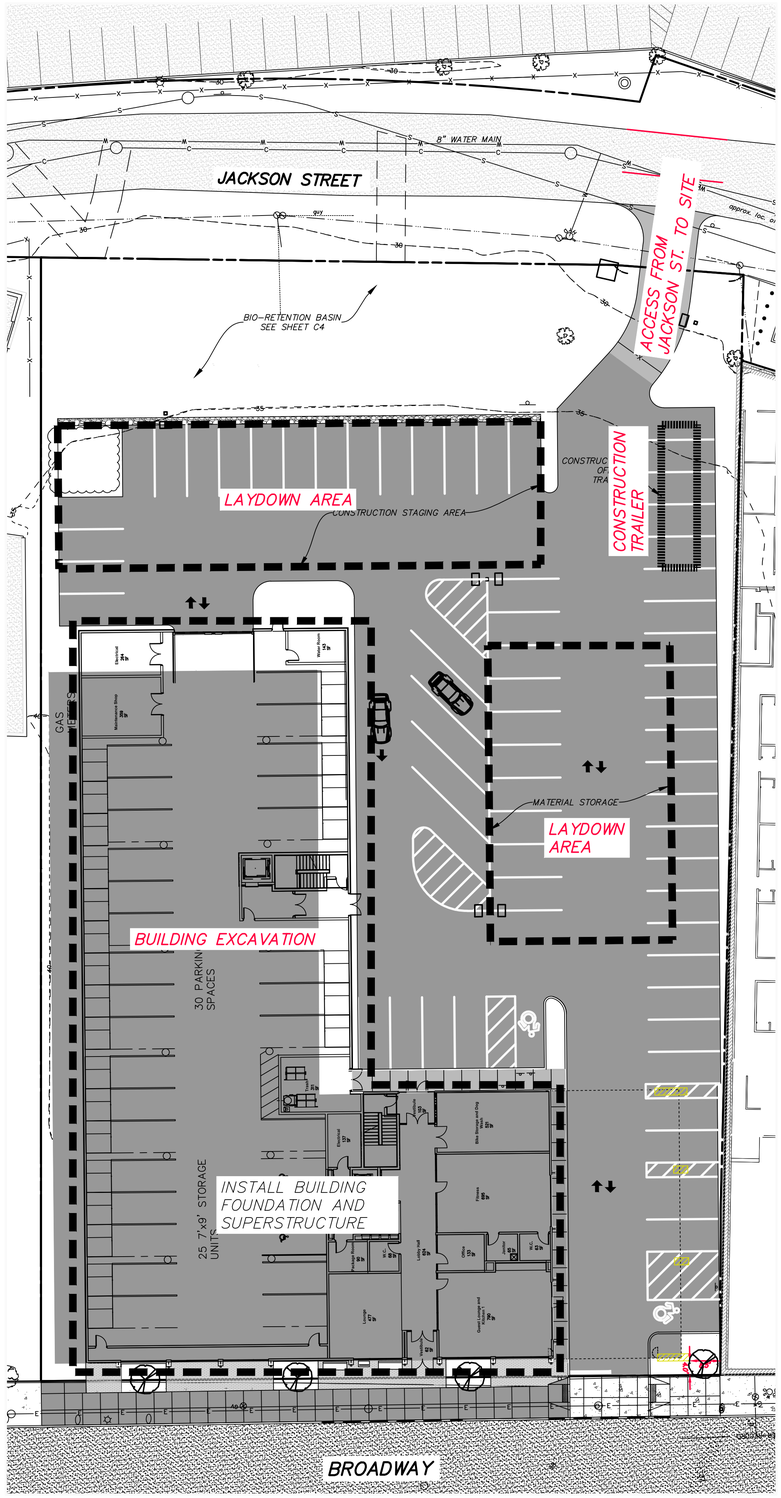
REMARKS	DATE	
COMMENT LETTER DATED 10-3-2019	10-30-2019	
REVISED BUILDING DESIGN	12-2-2019	
COMMENT LETTER 1/20/2020	2-5-2020	
GENERAL REVISIONS	4/21/20	

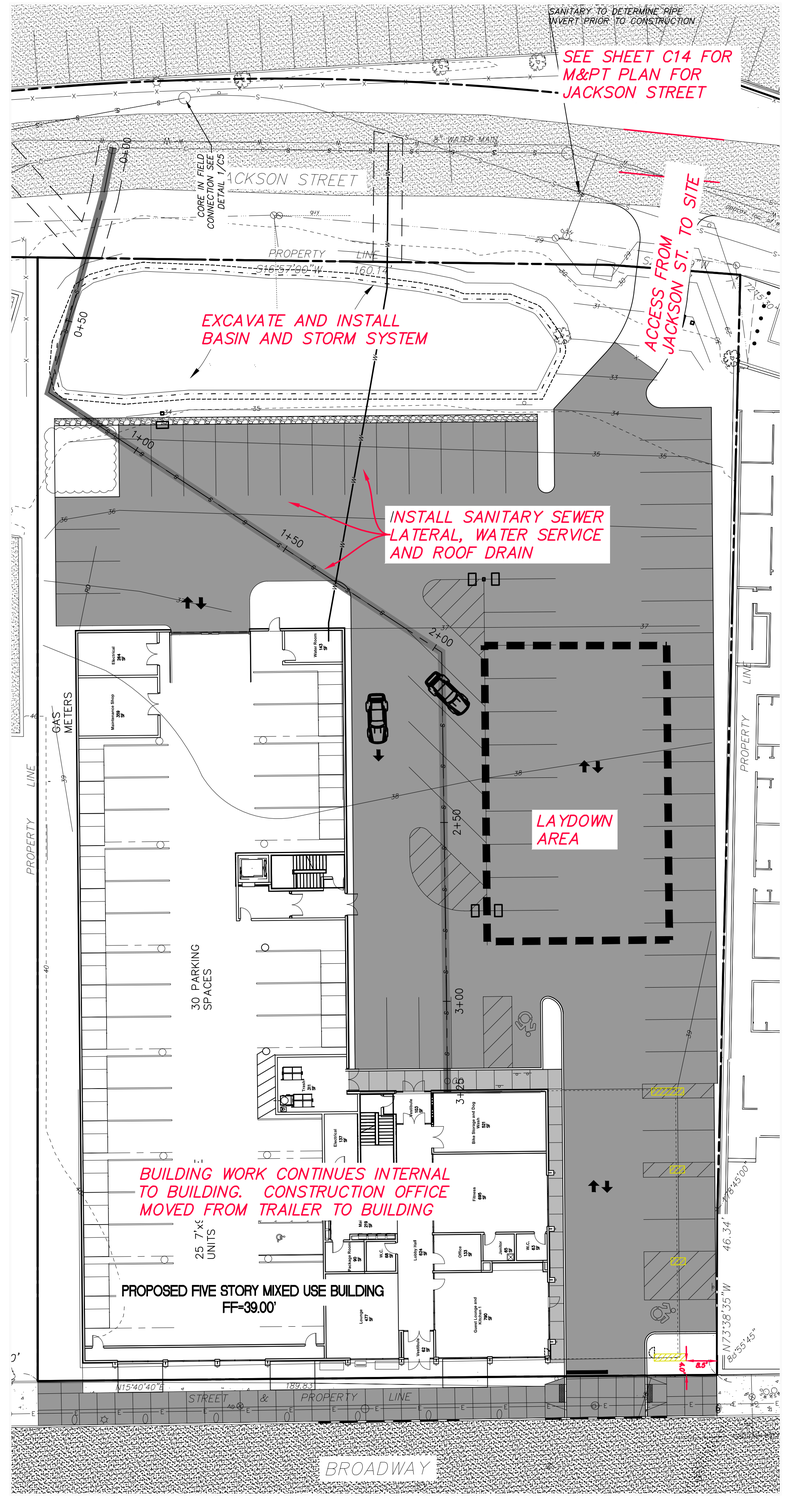
WORK ZONE TRAFFIC PROTECTION PLAN
745 BROADWAY
CITY OF ALBANY, STATE OF NEW YORK

FILE: 190071 | SCALE: 1"=50' | BY: SMcC | CHK: DRH | DATE: 7/24/19 | 190071-6.DWG

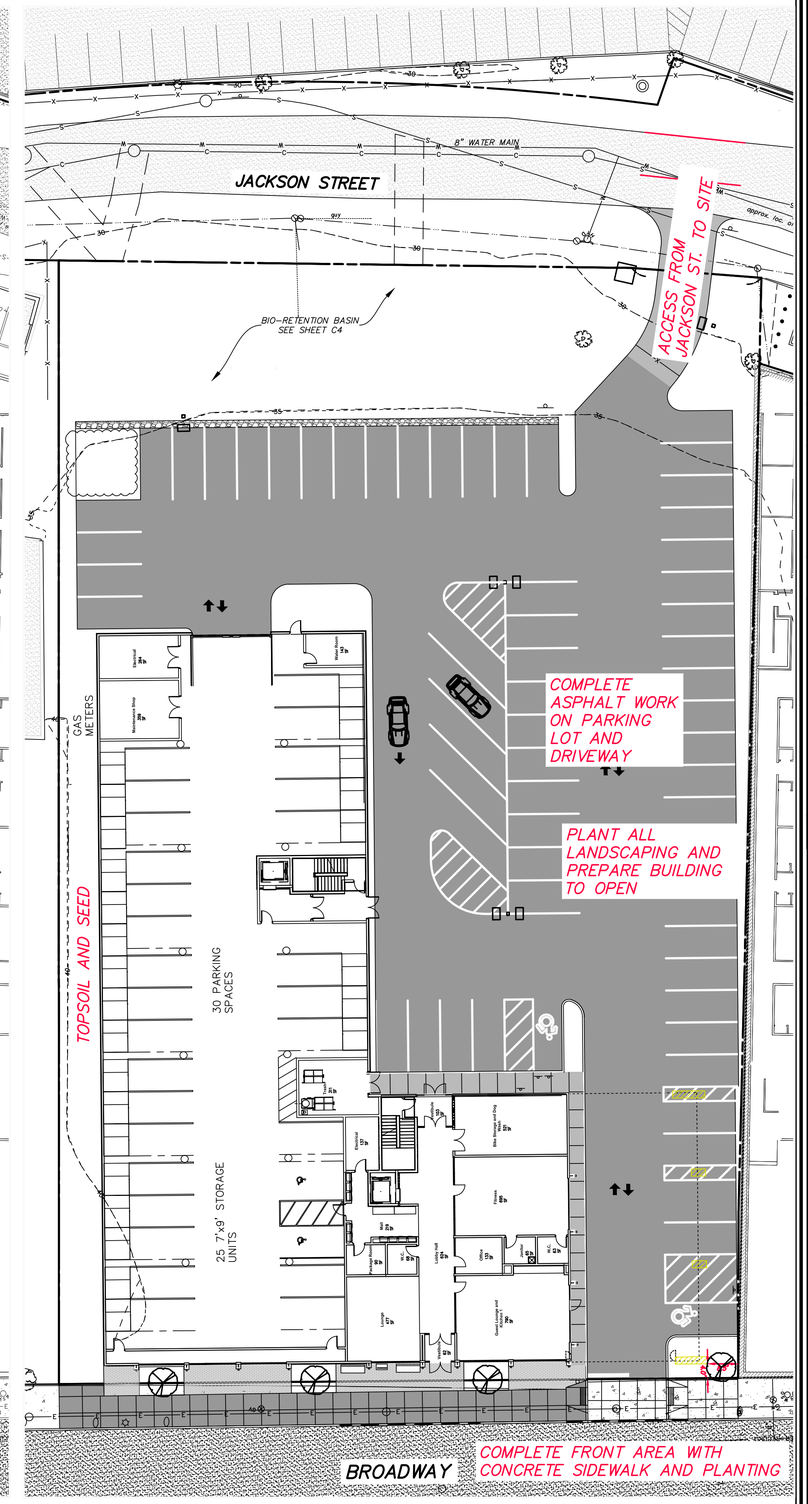
C11



STAGE A



STAGE B



STAGE C

GRAPHIC SCALE

(IN FEET)
1 inch = 20 ft.

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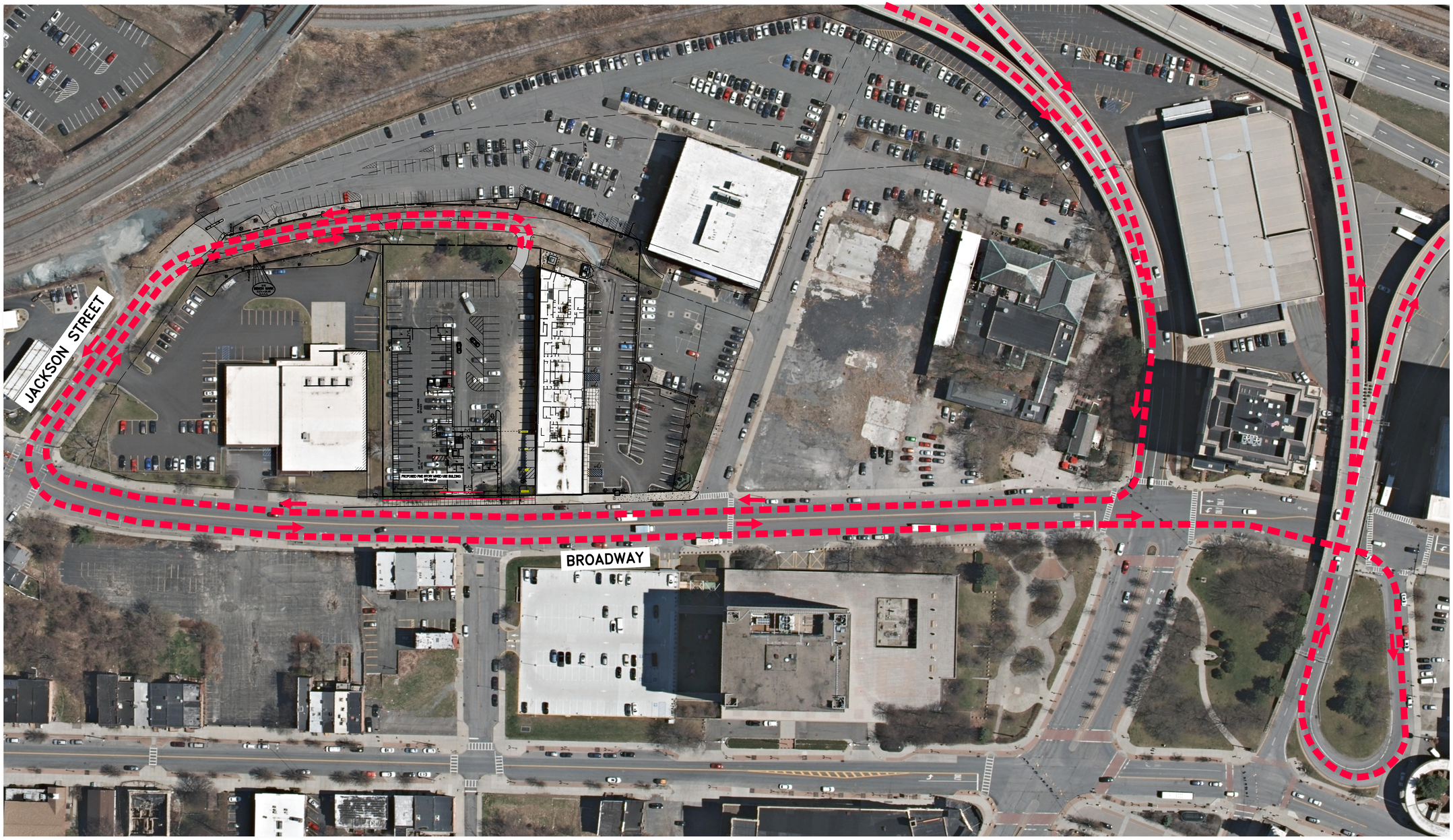
REVISIONS		
REMARKS	DATE	
COMMENT LETTER DATED 10-3-2019	10-30-2019	
REVISED BUILDING DESIGN	12-2-2019	
COMMENT LETTER 1/20/2020	2-5-2020	
GENERAL REVISIONS	4/21/20	

CONSTRUCTION STAGING PLAN
745 BROADWAY
CITY OF ALBANY, STATE OF NEW YORK

FILE: 190071 | SCALE: AS NOTED | BY: SMcC | CHK: DRH | DATE: 7/24/19 | 190071-6.DWG

C12



GRAPHIC SCALE

60 0 30 60 120 240

(IN FEET)
1 inch = 60 ft.

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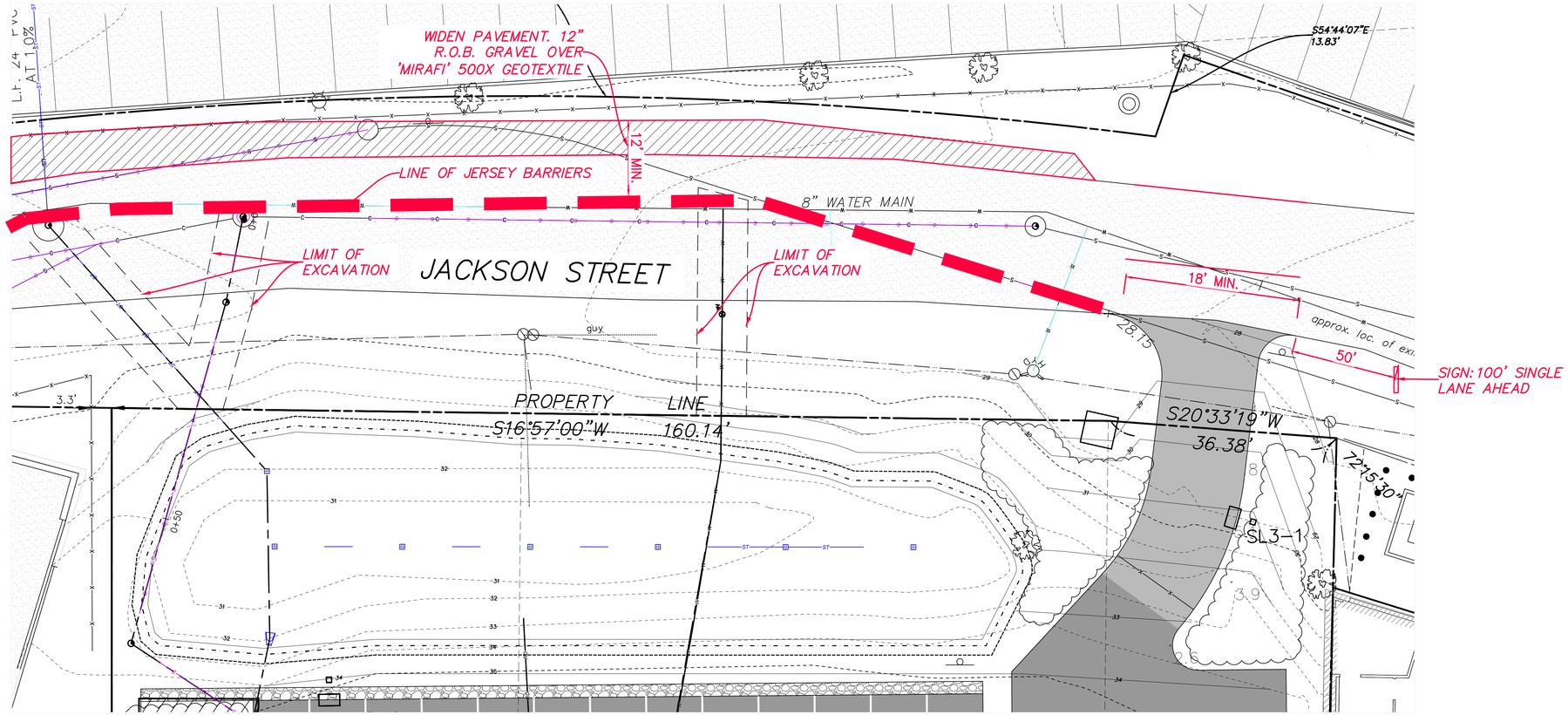
REVISIONS		
REMARKS	DATE	
GENERAL REVISIONS	1/21/20	

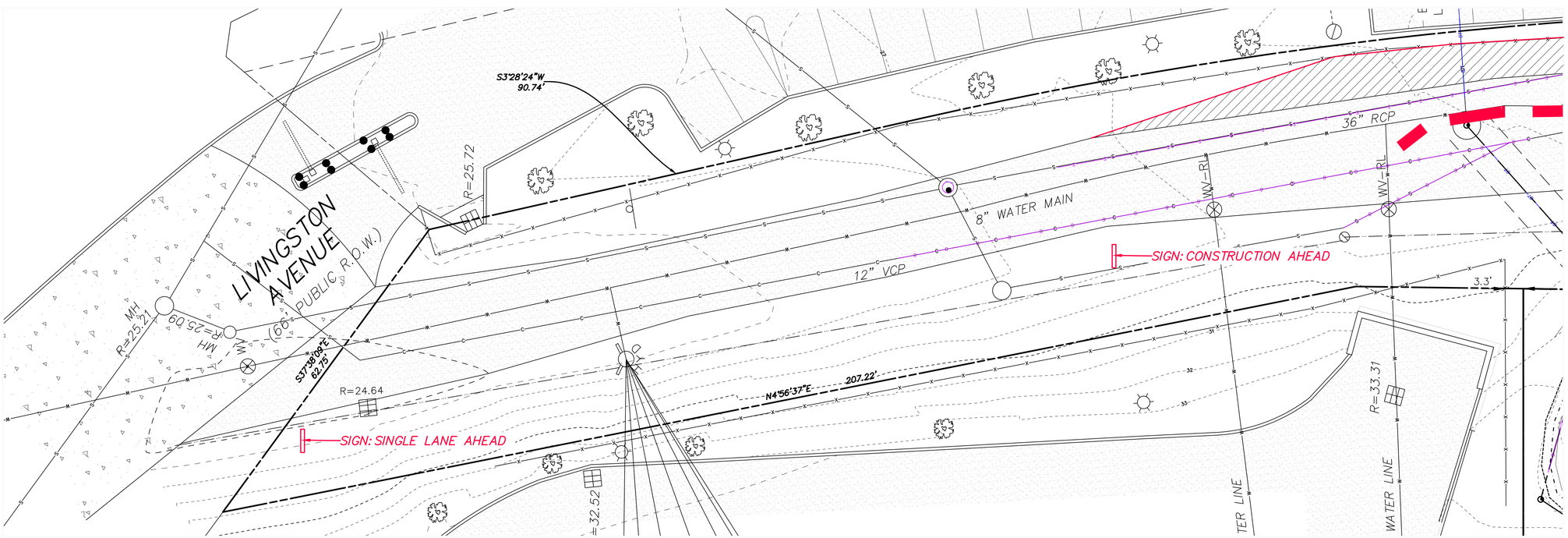
TRUCK ROUTING PLAN
745 BROADWAY
CITY OF ALBANY, STATE OF NEW YORK

FILE: 190071 | SCALE: 1"=50' | BY: SMcC | CHK: DRH | DATE: 7/24/19 | 190071-6.DWG

C13



PHASE I



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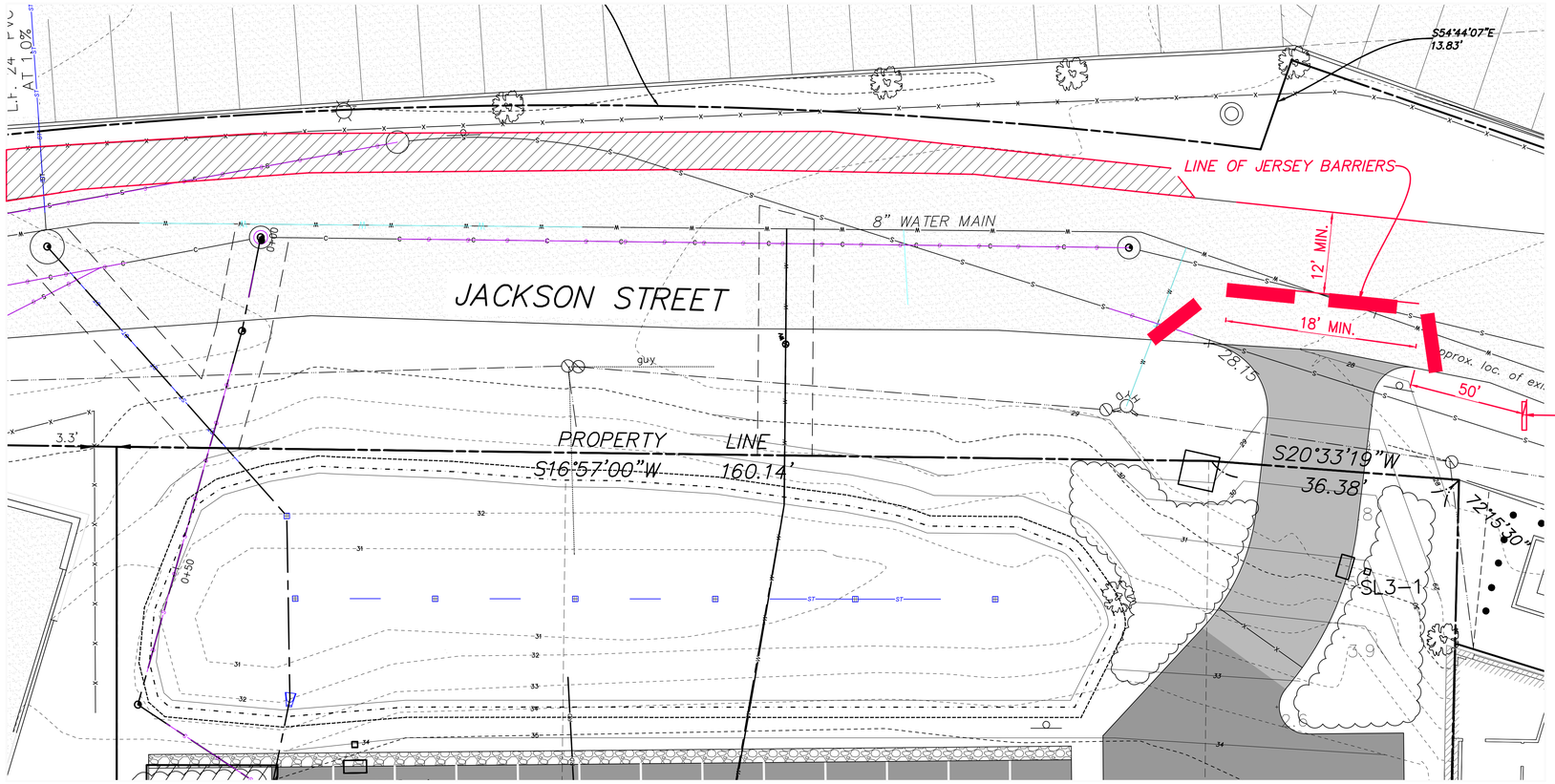
REVISIONS		
REMARKS	GENERAL REVISIONS	DATE 4/21/20

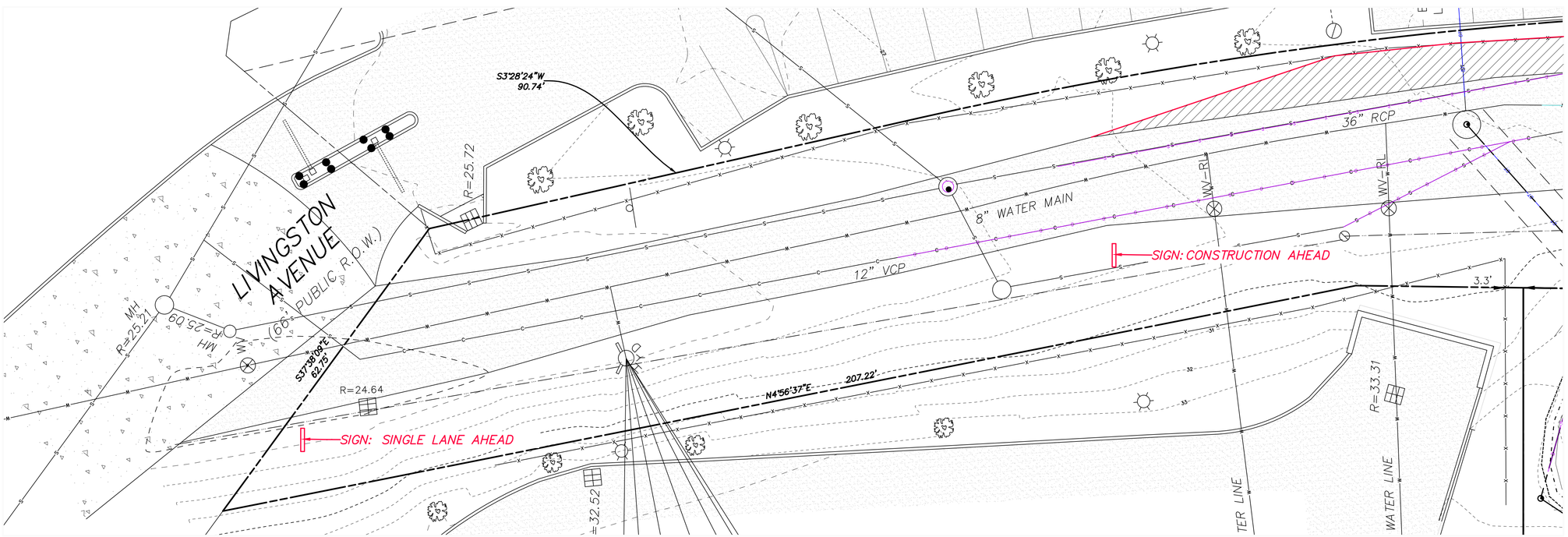
MAINTENANCE AND PROTECTION OF TRAFFIC PLAN
745 BROADWAY
CITY OF ALBANY, STATE OF NEW YORK

FILE: 190077 | SCALE: AS NOTED | BY: SMcC | CHK: DRH | DATE: 7/24/19 | 190077-6.DWG

C14



PHASE II



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REVISIONS		DATE
GENERAL REVISIONS		4/21/20

MAINTENANCE AND PROTECTION OF TRAFFIC PLAN
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C15