

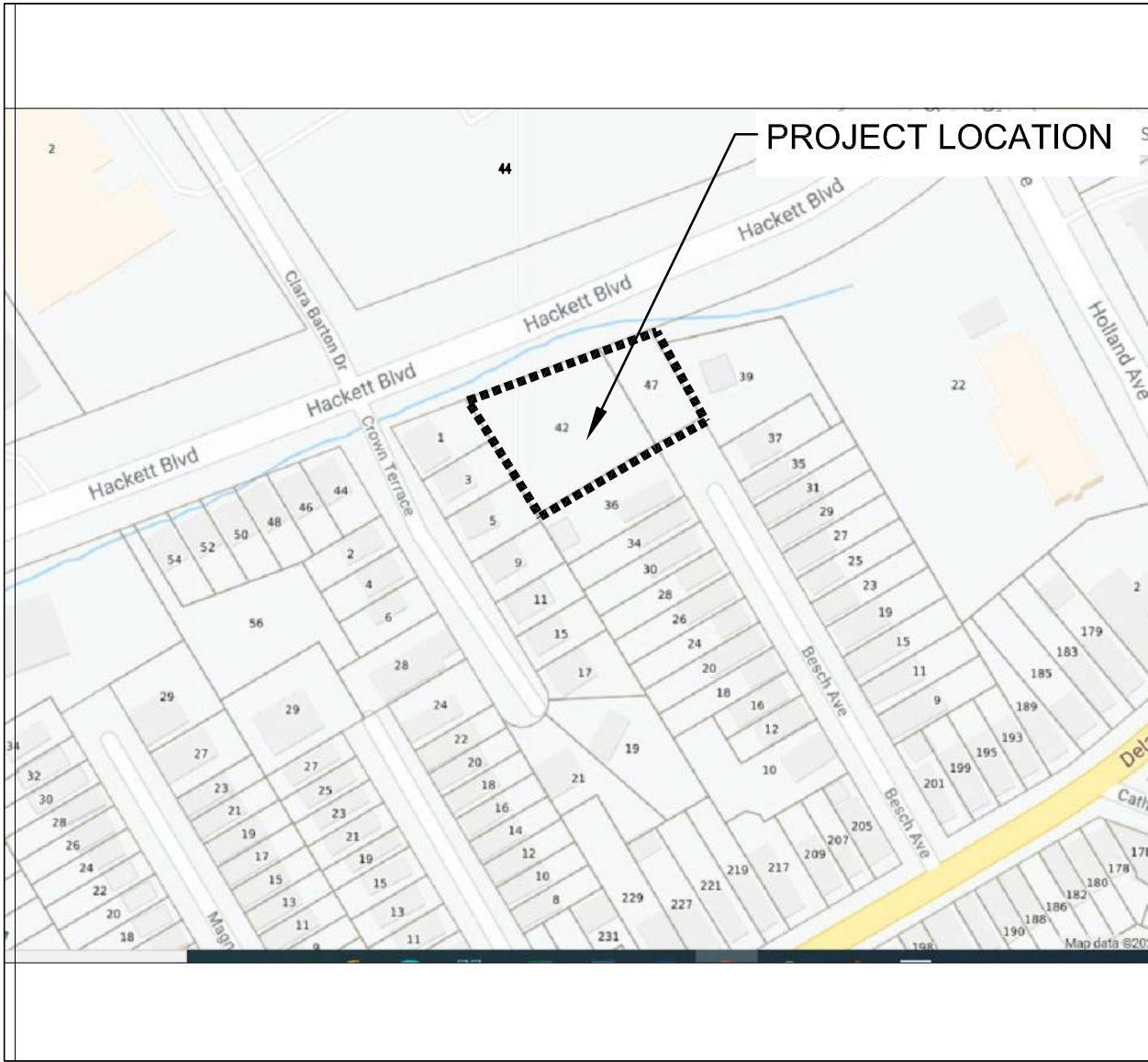
Hackett Boulevard Apartments

42 Besch Avenue

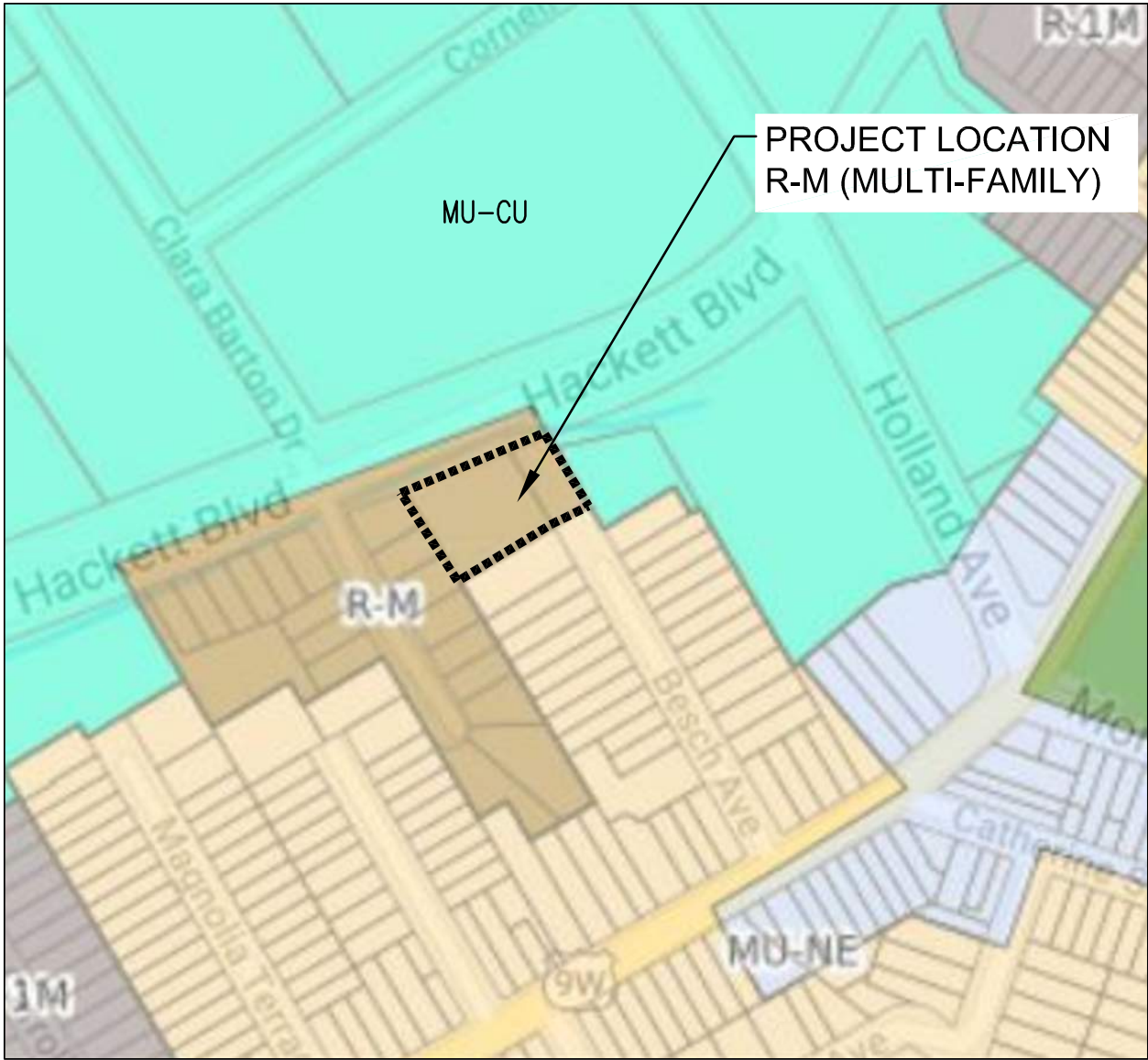
Albany, NY 12208



ORTHO MAP
1"=200'



TAX MAP
1"=200'



ZONING MAP
1"=250'

ZONING AND LAND USE

SECTION 375: ZONING - CITY OF ALBANY DIMENSIONAL REQUIREMENTS (DECEMBER 2019)							
DISTRICT	LOT WIDTH MINIMUM (feet)	IMPERVIOUS LOT COVERAGE MAXIMUM (percent)	FRONT SETBACK MINIMUM (feet)	SIDE SETBACK MINIMUM (feet)	REAR SETBACK MINIMUM (feet)	BUILDING HEIGHT MAXIMUM	NO. OF DWELLING UNITS MAXIMUM
R-M (MULTI-FAMILY)	22	80	0	0	15	4 STORIES	1 per 750 SF OF G.F.A.

NOTES:
1. PARCEL IS WITHIN AND SUBJECT TO THE REQUIREMENTS OF THE COMBINED SEWER
OVERLAY DISTRICT (CS-O).

DRAWING LIST

SHEET	TITLE	CONSULTANT
C0.0	COVER SHEET	ENGINEERING VENTURES
C0.1	SITE LEGEND AND NOTES	ENGINEERING VENTURES
C1.0	EXISTING CONDITIONS AND DEMOLITION PLAN	ENGINEERING VENTURES
C2.0	SITE LAYOUT PLAN	ENGINEERING VENTURES
C2.1	GRADING AND UTILITY PLAN	ENGINEERING VENTURES
C2.2	PROFILES	ENGINEERING VENTURES
C2.3	PROFILES	ENGINEERING VENTURES
C2.4	EROSION AND SEDIMENT CONTROL PLAN	ENGINEERING VENTURES
C3.0	SITE AND WATER DETAILS	ENGINEERING VENTURES
C3.1	STORMWATER DETAILS (1 OF 2) AND SANITARY DETAILS	ENGINEERING VENTURES
C3.2	STORMWATER DETAILS (2 OF 2)	ENGINEERING VENTURES
C3.3	EROSION & SEDIMENT CONTROL DETAILS (1 OF 2)	ENGINEERING VENTURES
C3.4	EROSION & SEDIMENT CONTROL DETAILS (2 OF 2)	ENGINEERING VENTURES
C3.5	CITY OF ALBANY STANDARD SITE DETAILS	ENGINEERING VENTURES

SUBJECT PROPERTY:

CITY OF ALBANY, ALBANY COUNTY, NEW YORK
SEC. 76.46 - BLOCK 4
PARCELS 29 & 30

APPLICANT:

RONALD STEIN
204 WINDING BROOK ROAD
NEW ROCHELLE, NY 10804

CONSULTANTS:

CIVIL ENGINEER
ENGINEERING VENTURES, PC
414 UNION STREET
SCHENECTADY, NY 12305

ARCHITECT
C2 ARCHITECTURE, PC
24 AIRPORT ROAD
SCHENECTADY, NY 12302

ARCHITECTURE, PC
WWW.C2-DESIGNGROUP.COM
24 AIRPORT ROAD | SCHENECTADY, NY 12302 | 518.320.8250
C2 ARCHITECTURE, PC. The material and ideas contained in this document are confidential and are the proprietary property of C2 ARCHITECTURE, PC. These materials and ideas shall not be released or otherwise made available to any third party, or reproduced in whole or in part, without the express written consent of C2 ARCHITECTURE, PC.

ENGINEERING VENTURES, PC
2000 River Road, Albany, NY 12205
Tel: 518.320.8250
Fax: 518.320.8251
www.engineeringventures.com

No.	REVISION DESCRIPTION	DATE	CONSULTANT
1	REV. PER UPDATED SURVEY	02/25/2021	
2	REV. PER CITY COMMENTS	04/09/2021	
3	REV. PER CITY COMMENTS	04/30/2021	

COVER SHEET

New Construction

Hackett Boulevard Apartments

42 Besch Avenue
Albany, NY 12209

DRAWN BY: MJD

DATE: 2/12/2021

SCALE: AS NOTED

JOB No.: EV# 20483

SHEET: C0.0

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
APRIL 30, 2021

GENERAL NOTES

- EXACT OBJECT LOCATIONS MAY DIFFER FROM THAT AS SHOWN, AND ADDITIONAL SUB-SURFACE AND SURFACE UTILITIES AND STRUCTURES MAY EXIST. THE CONTRACTOR IS TO PROCEED WITH GREAT CARE IN EXECUTING ANY WORK AND TO CALL DIG SAFE 72 HOURS PRIOR TO ANY DIGGING, DRILLING OR BLASTING.
- 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 THE EXPRESSED APPROVAL FROM THE ENGINEER.
- THE CONTRACTOR IS INSTRUCTED TO COOPERATE WITH ANY AND ALL OTHER CONTRACTORS PERFORMING WORK ON THIS JOB SITE DURING THE PERFORMANCE OF THIS CONTRACT.
- THE CONTRACTOR SHALL RESTORE LAWNS, DRIVEWAYS, CULVERTS, SIGNS AND OTHER PUBLIC OR PRIVATE PROPERTY DAMAGED OR REMOVED TO EXISTING CONDITIONS OR BETTER AS DETERMINED BY THE ENGINEER. ANY DAMAGED TREES, SHRUBS AND/OR HEDGES SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE, UNLESS NOTED OTHERWISE.
- THE CONTRACTOR SHALL COMPLY WITH ALL REQUIRED PERMITS.
- THE OWNER SHALL BE RESPONSIBLE FOR OBTAINING, AND INCURRING THE COST OF ALL REQUIRED PERMITS, INSPECTIONS, AND CERTIFICATES.
- THE CONTRACTOR WILL 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 UNDER THE SUPERVISION OF A NEW YORK STATE LICENSED LAND SURVEYOR.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE ALL PLAN SHEETS AND SPECIFICATIONS, AND COORDINATE WORK WITH ALL CONTRACTS FOR THE SITE.

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONDUCT EXPLORATORY TEST PITS AS MAY BE REQUIRED TO DETERMINE UNDERGROUND CONDITIONS.

- ALL TRENCH EXCAVATION AND ANY REQUIRED SHEETING AND SHORING SHALL BE DONE IN ACCORDANCE WITH THE LATEST OSHA AND NYS DEPARTMENT OF LABOR REGULATIONS FOR CONSTRUCTION. EXCAVATION/BACKFILL ADJACENT TO EXISTING FOUNDATIONS AND BUILDINGS SHALL NOT EXTEND BELOW OR ABOVE THE EXISTING GRADE(S) OF SAID STRUCTURE(S) WITHOUT ADEQUATE SHEETING, BRACING, SHORING AND/OR UNDERPINNING DESIGNED BY A NYS LICENSED PROFESSIONAL ENGINEER. ALL PREPARED DESIGNS AND CALCULATIONS SHALL BE SUBMITTED WITH THE GRADING PERMIT.

- CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING AND THE MAINTENANCE OF SURFACE DRAINAGE DURING THE COURSE OF WORK.

- MAINTAIN FLOW FOR ALL EXISTING UTILITIES, UNLESS NOTED OTHERWISE.

- ALL SITE FILL SHALL MEET SELECTED FILL STANDARDS UNLESS NOTED OTHERWISE ON THE DRAWINGS.

- CONTRACTOR TO GRADE ALL AREAS ON THE SITE TO PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDINGS AND IMPERVIOUS SURFACES.

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL FIELD LAYOUT. THE CONTRACTOR SHALL PROVIDE MARKED-UP AS-BUILT PLANS FOR ALL UTILITIES SHOWING CONNECTIONS, BENDS, VALVES, LENGTHS OF LINES AND INVERTS. AS-BUILT PLANS SHALL BE REVIEWED BY THE OWNER AND HIS REPRESENTATIVES BEFORE UTILITIES WILL BE ACCEPTED.

- CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER INSTALLATION, MONITORING, MAINTENANCE AND REMOVAL OF ALL TEMPORARY EROSION CONTROL MEASURES AND TAKING PRECAUTIONARY STEPS TO AVOID ANY SEDIMENT TRANSFER TO NEIGHBORING SITES OR WATERS OF THE STATE.

- GUY LINES FOR RELOCATED UTILITY POLES SHALL NOT BE LOCATED IN THE SIDEWALK PROPER. GUY LINES MUST BE LOCATED IN THE MAINTENANCE / PAVER STRIP.

- THE PROPERTY OWNER SHALL CONTRACT WITH THE CITY OF ALBANY FOR ALL STEPS, STAIRS, PLANTERS AND BUILDING OVERHANGS WITHIN THE CITY'S R.O.W.

- THE CONTRACTOR SHALL OBTAIN A GRADING PERMIT FROM THE CITY ENGINEERING DEPARTMENT IF SPOILS FROM THE SITE ARE DEPOSITED WITHIN THE CITY OF ALBANY.

- SIDEWALK CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,500 PSI AT 28-DAYS.

- HYDROSTATIC AND LEAKAGE TEST TO BE WITNESSED BY ALBANY WATER DEPARTMENT STAFF. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 48-HOURS NOTICE PRIOR TO PERFORMANCE OF THE TESTS.

- RESULTS OF THE CHLORINATION OF THE DOMESTIC WATERLINE SHALL BE PROVIDE TO THE ALBANY WATER DEPARTMENT. WATER SERVICE SHALL NOT BE PLACED INTO SERVICE WITHOUT PRIOR APPROVAL OF THE ALBANY WATER DEPARTMENT STAFF.

- A FULL TIME GEOTECHNICAL INSPECTOR SHALL BE ONSITE FOR OBSERVATION AND RECOMMENDATIONS DURING ALL SITE WORK, UTILITY INSTALLATIONS, SHEETING, BRACING, SHORING AND/OR UNDERPINNING WHILE BUILDING AND SITE EXCAVATION/BACKFILL OPERATIONS ARE UNDERWAY.

CITY OF ALBANY NOTES

- GRADING PERMIT WITH GRADING EASEMENT REQUIRED. CONTACT PATRICK MCCUTCHEON, ENGINEERING DIVISION. PH: 518-434-2387.
- STREET OPENING PERMITS AND ROW ACCESS APPLICATION ARE REQUIRED. CONTACT GARY BOHL, DEPARTMENT OF GENERAL SERVICES. PH: 518-462-3519.

SURVEY NOTES

































































- EXISTING BOUNDARYS, PHYSICAL FEATURES, AND TOPOGRAPHY SHOWN HEREIN ARE BASED ON PLAN ENTITLED "BOUNDARY & TOPOGRAPHIC SURVEY OF A PORTION OF THE LANDS OF SAYVILLE BROWNING PROPERTIES, INC.", PREPARED BY AUSFELD & WALDRUFF LAND SURVEYORS LLP, AND DATED 2/16/2021.
- ENGINEERING VENTURES HAS NOT PERFORMED ANY BOUNDARY OR TOPOGRAPHIC SURVEYS. THE PROPERTY LINES, EASEMENTS, AND OTHER REAL PROPERTY DESCRIPTIONS PROVIDED ON THESE PLANS DO NOT DEFINE LEGAL RIGHTS OR MEET LEGAL REQUIREMENTS FOR A LAND SURVEY AS DESCRIBED IN NY STATUTES, AND SHALL NOT BE USED AS THE BASIS OF ANY LAND TRANSFER OR ESTABLISHMENT OF ANY PROPERTY RIGHT.
- UTILITIES SHOWN DO NOT PURPORT TO CONSTITUTE OR REPRESENT ALL UTILITIES LOCATED UPON OR ADJACENT TO THE SURVEYED PREMISES. EXISTING UTILITIES SHOWN ON PLANS WERE TAKEN FROM FIELD OBSERVATIONS OF VISIBLE UTILITIES AND PREVIOUS MAPS AND RECORD UTILITY DRAWINGS AND NOT GUARANTEED TO BE ACCURATE OR COMPLETE. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING UTILITY LOCATIONS PRIOR TO COMMENCING WORK. NOTIFY ENGINEER OF ANY DISCREPANCY BETWEEN UTILITIES AS SHOWN AND AS FOUND. THE CONTRACTOR SHALL CONTACT DIG SAFE (811 OR 888-344-7233) A MINIMUM OF 72 HOURS, BUT NOT INCLUDING SATURDAYS, SUNDAYS AND LEGAL HOLIDAYS, PRIOR TO ANY CONSTRUCTION.

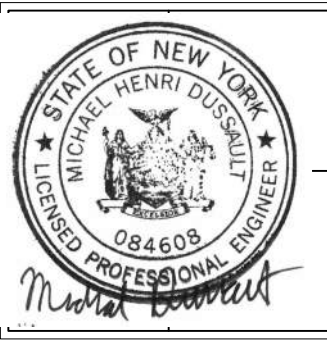
SYMBOL LEGEND

PROPOSED FEATURES	EXISTING FEATURES
 BOUND	 BOUND
 BENCHMARK	 BENCHMARK
 DRILL HOLE	 DRILL HOLE
 SURVEY POINT	 SURVEY POINT
 IRON PIN	 IRON PIN
 TP1	 TP1
 TEST PIT	 TEST PIT
 B1	 B1
 BORING	 BORING
 PERC TEST	 PERC TEST
 CATCH BASIN (SQUARE)	 CATCH BASIN (SQUARE)
 CATCH BASIN (ROUND)	 CATCH BASIN (ROUND)
 HEADWALL	 HEADWALL
 FLARED END SECTION	 FLARED END SECTION
 STONE APRON	 STONE APRON
 DRAIN MANHOLE (DMH)	 DRAIN MANHOLE (DMH)
 DRAINAGE CLEAN OUT	 DRAINAGE CLEAN OUT
 SANITARY SEWER MANHOLE (SMH)	 SANITARY SEWER MANHOLE (SMH)
 SANITARY CLEAN OUT	 SANITARY CLEAN OUT
 HYDRANT	 HYDRANT
 WATER SHUTOFF	 WATER SHUTOFF
 TAPPING SLEEVE & VALVE	 TAPPING SLEEVE & VALVE
 GATE VALVE	 GATE VALVE
 WELL	 WELL
 UTILITY POLE	 UTILITY POLE
 GUY POLE	 GUY POLE
 ELECTRICAL MANHOLE	 ELECTRICAL MANHOLE
 FLOOD LIGHT	 FLOOD LIGHT
 LIGHT POST	 LIGHT POST
 TELEPHONE MANHOLE	 TELEPHONE MANHOLE
 NATURAL GAS MANHOLE	 NATURAL GAS MANHOLE
 COMMUNICATION MANHOLE	 COMMUNICATION MANHOLE
 BOLLARD	 BOLLARD
 SINGLE POLE SIGN	 SINGLE POLE SIGN
 DOUBLE POLE SIGN	 DOUBLE POLE SIGN
 SPOT ELEVATION	 SPOT ELEVATION
 ACCESSIBLE PARKING STALL	 ACCESSIBLE PARKING STALL
 DRAINAGE FLOW	 DRAINAGE FLOW
 DECIDUOUS TREE	 DECIDUOUS TREE
 CONIFEROUS TREE	 CONIFEROUS TREE

26B NRCS SOIL CLASSIFICATION

LINETYPE LEGEND

PROPOSED FEATURES	EXISTING FEATURES
 100	 100
 98	 98
 PROPERTY LINE	 PROPERTY LINE
 SETBACK	 SETBACK
 EASEMENT	 EASEMENT
 CENTERLINE	 CENTERLINE
 EDGE OF PAVEMENT	 EDGE OF PAVEMENT
 EDGE OF GRAVEL	 EDGE OF GRAVEL
 EDGE OF CONCRETE	 EDGE OF CONCRETE
 CURB	 CURB
 FENCE (BARBED WIRE)	 FENCE (BARBED WIRE)
 FENCE (CHAIN LINK)	 FENCE (CHAIN LINK)
 FENCE (WOODEN)	 FENCE (WOODEN)
 GUARD RAIL	 GUARD RAIL
 TREE LINE	 TREE LINE
 STONE WALL	 STONE WALL
 SANITARY SEWER	 SANITARY SEWER
 SANITARY SEWER APPROX.	 SANITARY SEWER APPROX.
 SEWER FORCEMAIN	 SEWER FORCEMAIN
 STORM LINE	 STORM LINE
 STORM LINE APPROX.	 STORM LINE APPROX.
 UNDER DRAIN	 UNDER DRAIN
 FOUNDATION DRAIN	 FOUNDATION DRAIN
 ROOF DRAIN	 ROOF DRAIN
 DITCH/SWALE	 DITCH/SWALE
 UNDERGROUND TELECOMM	 UNDERGROUND TELECOMM
 OVERHEAD TELECOMM	 OVERHEAD TELECOMM
 UNDERGROUND ELECTRIC	 UNDERGROUND ELECTRIC
 OVERHEAD ELECTRIC	 OVERHEAD ELECTRIC
 WATER LINE	 WATER LINE
 WATER APPROX.	 WATER APPROX.
 NRCS SOIL BOUNDARY	 NRCS SOIL BOUNDARY

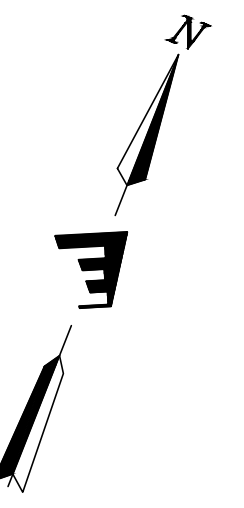
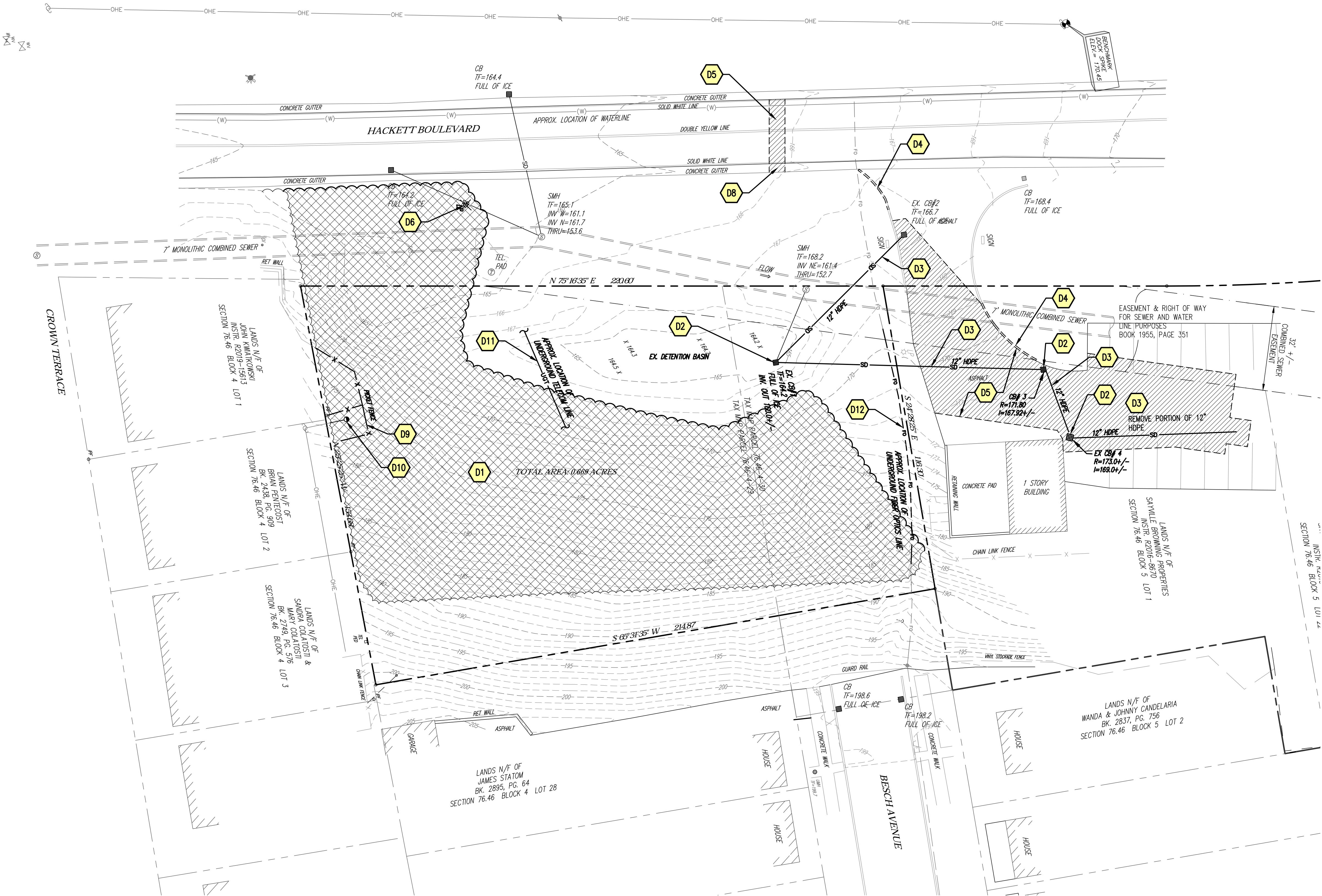


REVISION DESCRIPTION		DATE	CONSULTANT
1	REV. PER UPDATED SURVEY	02/25/2021	
2	REV. PER CITY COMMENTS	04/09/2021	
3	REV. PER CITY COMMENTS	04/02/2021	

SHEET TITLE:	SITE LEGEND AND NOTES	
	New Construction	
PROJECT:	Hackett Boulevard Apartments	
	42 Bessie Avenue Albany, NY 12209	

DRAWN BY:	MJD
DATE:	2/12/2021
SCALE:	AS NOTED
JOB No.:	EV# 20483
SHEET:	C0.1

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
APRIL 30, 2021

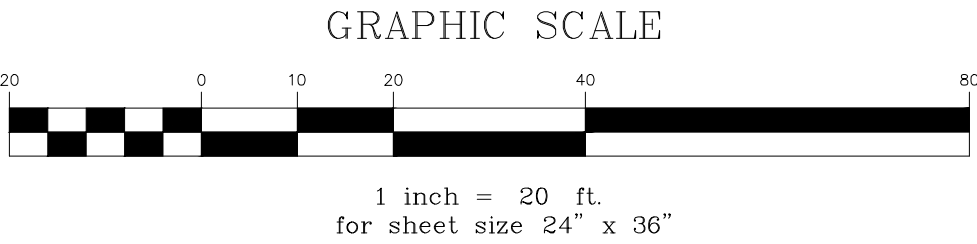


DEMOLITION LEGEND

- EXISTING WOODS TO BE CLEARED AND GRUBBED
- EXISTING PAVEMENT TO BE DEMOLISHED
- EXISTING LIGHT TO BE REMOVED
- EXISTING CURB TO BE DEMOLISHED
- EXISTING STORM LINE TO BE REMOVED
- EXISTING TELECOM LINE TO BE REMOVED
- EXISTING FIBER OPTICS LINE TO BE REMOVED

SEE EROSION AND SEDIMENT CONTROL PLAN (SHEET C2.2) FOR ALL EROSION AND SEDIMENT CONTROL MEASURES TO BE INSTALLED PRIOR TO START OF CONSTRUCTION ACTIVITIES.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
APRIL 30, 2021



CITY OF ALBANY NOTES

1. GRADING PERMIT WITH GRADING EASEMENT REQUIRED. CONTACT PATRICK MCCUTCHEON, ENGINEERING DIVISION. PH: 518-434-2387.
2. STREET OPENING PERMITS AND ROW ACCESS APPLICATION ARE REQUIRED. CONTACT GARY BOHL, DEPARTMENT OF GENERAL SERVICES. PH: 518-462-3519.

DEMOLITION NOTES

1. ALL DEMOLITION ITEMS FROM THE DEMOLITION, UNLESS NOTED BY THE OWNER TO BE STORED OR REUSED, BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE PROMPTLY REMOVED FROM THE SITE. SOIL DISPOSAL SHALL BE AS DIRECTED BY OWNER. ALL DEMOLITION MATERIALS SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH REQUIREMENTS OF REGULATORY AGENCIES HAVING JURISDICTION, INCLUDING, BUT LIMITED TO, THE CITY OF ALBANY, NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION AND ALL OTHER AGENCIES. ALL DEMOLITION ITEMS SHALL BE DISPOSED OF AT AN APPROVED AND PERMITTED FACILITY.
2. ALL ADJACENT FACILITIES AND STRUCTURES NOT INDICATED AS INCLUDED IN THE SCOPE OF WORK, SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION. ALL ADJACENT FACILITIES OR STRUCTURES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO PRE-CONSTRUCTION CONDITION OR BETTER.
3. EXISTING UTILITY CONNECTIONS, INCLUDING WATER, SANITARY SEWER, NATURAL GAS, OVERHEAD & BURIED ELECTRIC, TELEPHONE, CABLE, ETC., SHALL BE TERMINATED AT THE SERVICE MAIN IN ACCORDANCE WITH THE UTILITY COMPANY OR CITY REQUIREMENTS. ALL ONSITE PIPING, WIRING, CONDUITS & STRUCTURES SHALL BE REMOVED.
4. DEMOLITION SHALL INCLUDE, BUT IS NOT LIMITED TO, REMOVAL OF: FOUNDATION WALLS, FLOOR SLABS, SURFACE PAVEMENTS, RETAINING WALL, BUILDINGS, ACCESSORY STRUCTURES AND ALL OTHER STRUCTURES NOT SCHEDULED TO REMAIN.
5. IF HAZARDOUS MATERIALS OR WASTE IS ENCOUNTERED DURING DEMOLITION WORK, THE CONTRACTOR SHALL CONTACT THE REGULATORY AGENCIES AND COMPLY WITH THE JURISDICTIONAL REQUIREMENTS. HAZARDOUS MATERIALS AND WASTES MUST BE REMOVED BY A PERMITTED HAZARDOUS WASTE CONTRACTOR TO A PERMITTED HAZARDOUS WASTE SITE PERMITTED TO ACCEPT THE CHARACTERIZED WASTE.
6. TAKE ALL PRECAUTIONS NECESSARY TO PROVIDE A SAFE WORK AREA DURING DEMOLITION PROCEDURES. THE CONTRACTOR SHALL MINIMIZE DUST AND NOISE POLLUTION GENERATED DURING DEMOLITION AND CONSTRUCTION ACTIVITIES.
7. PRIOR TO DEMOLITION, HAND EXCAVATE ANY UNDERGROUND UTILITIES. NOTIFY THE OWNER IF ANY OTHER UTILITIES NOT NOTED ON THE DRAWINGS ARE FOUND.
8. CARE SHALL BE TAKEN NOT TO DAMAGE OR DISTURB ANY TREES NOT CALLED OUT FOR REMOVAL DURING CONSTRUCTION. KEEP CONSTRUCTION ACTIVITIES AND EQUIPMENT OUTSIDE OF DRIP LINE OF EXISTING TREES TO REMAIN AND NEWLY INSTALLED TREES.
9. ALL DEPRESSIONS OR VOIDS IN THE GROUND SURFACE RESULTING FROM DEMOLITION WORK SHALL BE BACKFILLED WITH CLEAN, GRANULAR FILL MATERIALS MEETING NEW YORK STATE DEPARTMENT OF TRANSPORTATION TYPE 4 SPECIFICATIONS AND SHALL BE COMPACTED TO A MINIMUM 90% MODIFIED PROCTOR DENSITY AND PLACED IN 12" LIFTS MAXIMUM.
10. THE CONTRACTOR SHALL REMOVE ALL KNOWN AND DISCOVERED EXISTING SANITARY SEWER AND WATER SERVICES WITHIN THE PROJECT LIMITS THAT ARE NOT TO BE REUSED. THE CONTRACTOR SHALL CAP REMOVED SANITARY SEWER SERVICES AT THE MAIN. THE CONTRACTOR SHALL PLUG REMOVED WATER SERVICES AT THE TAP TO THE WATER MAIN.

DEMOLITION ITEMS

- D1 EXISTING WOODED AREA TO BE CLEARED AND GRUBBED.
- D2 EXISTING CATCH BASIN TOP BE DEMOLISHED.
- D3 EXISTING 12" HDPE STORM PIPE TO BE DEMOLISHED.
- D4 EXISTING GRANITE CURB TO BE REMOVED AND RECONSTRUCTED. SEE SHEET C2.0.
- D5 EXISTING PAVEMENT TO BE SAWCUT, REMOVED, AND RECONSTRUCTED. SEE SHEET C2.0. COORDINATE WITH CITY OF ALBANY FOR PAVEMENT INSTALLATION WITHIN HACKETT BOULEVARD R.O.W.
- D6 EXISTING LIGHT POLE, CONC. BASE, AND LIGHT TO BE REMOVED. COORDINATE WITH UTILITY COMPANY FOR REMOVAL OF ELECTRICAL SERVICE.
- D7 NOT USED.
- D8 EXISTING PORTION OF CONCRETE GUTTER TO BE SAWCUT, REMOVED, AND REPLACED.
- D9 REMOVE PORTION OF EXISTING PICKET FENCE LOCATED ON THE PROPERTY OF THE PROPOSED DEVELOPMENT.
- D10 EXISTING GUY WIRE TO BE RELOCATED. SEE DRAWING C2.1. COORDINATE ALL DEMOLITION ACTIVITIES ASSOCIATED WITH REMOVAL OF GUY WIRE WITH UTILITY COMPANY.
- D11 PORTION OF EXISTING UNDERGROUND TELECOM LINE TO BE REROUTED. SEE DRAWING C2.1. COORDINATE ALL DEMOLITION ACTIVITIES ASSOCIATED WITH REMOVAL OF TELECOM LINE WITH UTILITY COMPANY. VERIFY EXISTING LOCATION AND EXTENTS OF REMOVAL IN FIELD.
- D12 PORTION OF EXISTING UNDERGROUND FIBER OPTICS LINE TO BE REROUTED. SEE DRAWING C2.1. COORDINATE ALL DEMOLITION ACTIVITIES ASSOCIATED WITH REMOVAL OF FIBER OPTICS LINE WITH UTILITY COMPANY. VERIFY EXISTING LOCATION AND EXTENTS OF REMOVAL IN FIELD.

ARCHITECTURE, PC

www.C2-DesignGroup.com

24 Airport Road | Schenectady, ny 12302 | 518.320.8250

Copyright © 2021, C2 ARCHITECTURE, PC. The material and ideas contained in this document are confidential and are the proprietary property of C2 ARCHITECTURE, PC. These materials and ideas shall not be released or otherwise made available to any third party, or reproduced in whole or in part, without the express written consent of C2 ARCHITECTURE, PC.

STATE OF NEW YORK

MICHAEL LENG DUKAKIS

094608

PROFESSIONAL ENGINEER

Michael Leng

ENGINEERING VENTURES PC

2000 New Albany Road, Schenectady, NY 12302

90 Schenectady County Office Building, Schenectady, NY 12302

800-541-2222

www.c2-engineering.com

CONSULTANT:

DATE: 02/25/2021

DATE: 04/09/2021

DATE: 04/30/2021

REVISION DISCUSSION

1 REV. PER UPDATED SURVEY

2 REV. PER CITY COMMENTS

3 REV. PER CITY COMMENTS

EXISTING CONDITIONS & DEMOLITION PLAN

PROJECT:

New Construction

Hackett Boulevard Apartments

Albany, NY 12209

42 Besch Avenue

DRAWN BY: MJD

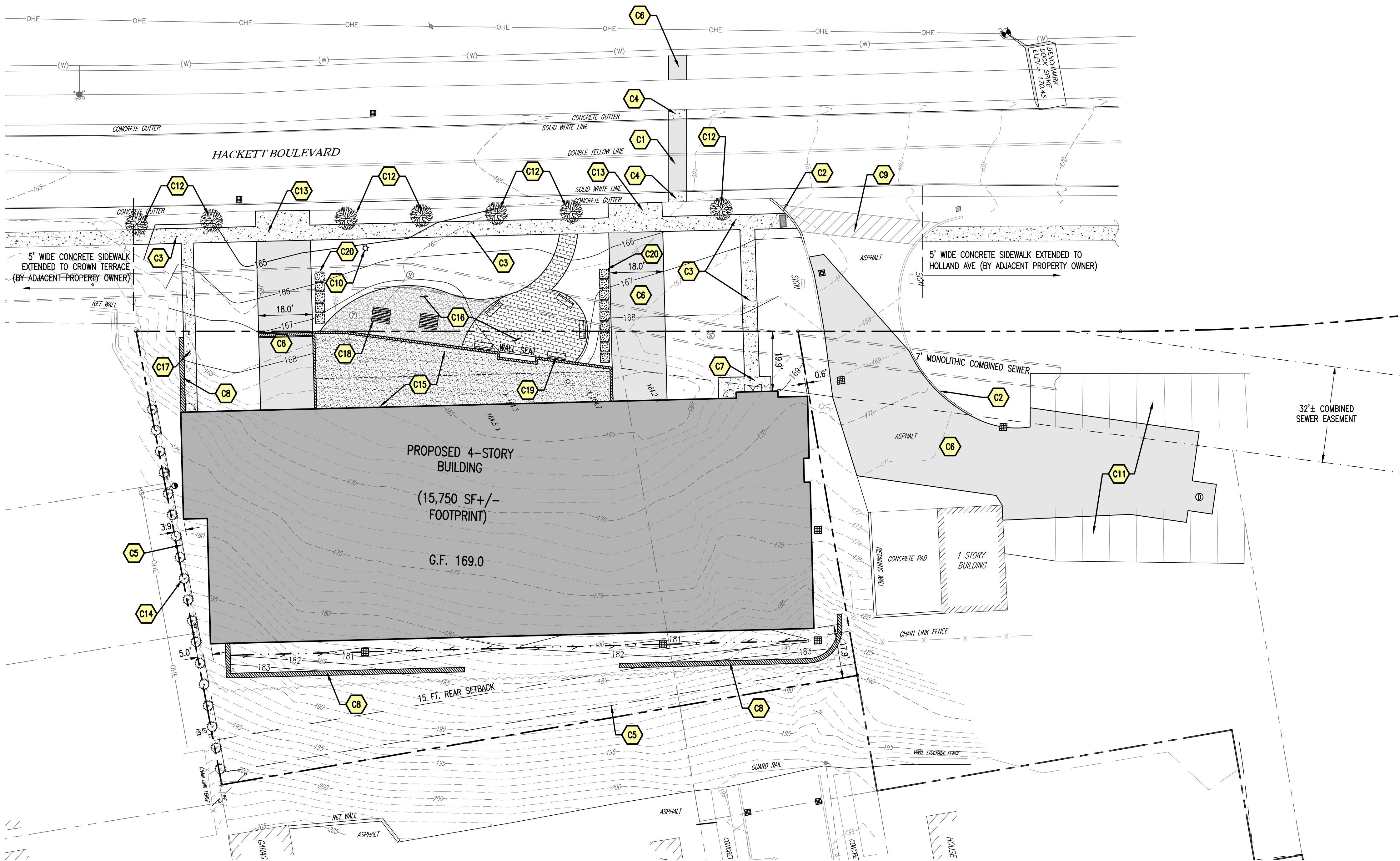
DATE: 2/12/2021

SCALE: AS NOTED

JOB No.: EV# 20483

SHEET:

C1.0



PARKING ANALYSIS

PARKING REQUIRED:
1 SPACE PER UNIT = 39 SPACES
MINUS 20% FOR PROXIMITY TO PUBLIC TRANSPORTATION
31 SPACES REQUIRED

PARKING PROVIDED (SEE ARCHITECTURAL PLAN SHEET A101):
42 STANDARD SPACES
2 ACCESSIBLE SPACES
44 TOTAL SPACES

BICYCLE PARKING (SEE ARCHITECTURAL PLAN SHEET A101):
4 SPACES REQUIRED WITH MIN. 3 SPACES ENCLOSED
6-8 ENCLOSED SPACES PROVIDED ON PARKING LEVEL

PROPOSED SURFACES LEGEND

	PROPOSED BUILDING
	PROPOSED PAVEMENT
	PROPOSED CONCRETE
	PROPOSED STORMWATER PLANTER
	PROPOSED CONCRETE PAVERS. SEE DETAIL 2/3.5.
	PROPOSED STONE DUST. SEE DETAIL 1/3.5.

SITE NOTES

- C1** PROPOSED ASPHALT PAVEMENT ROADWAY REPAIR - SEE CITY STANDARD DETAIL SR-1 ON DRAWING C3.5.
- C2** PROPOSED CURB RAMP AND/OR RECONSTRUCTED GRANITE CURB - CURB REVEAL AT ROADWAY SHALL BE 1/2". SEE CITY STANDARD DETAILS DW-4 AND C-1 ON DRAWING C3.5.
- C3** PROPOSED 5' WIDE CONCRETE SIDEWALK - SEE CITY STANDARD DETAIL SW-1 ON DRAWING C3.5.
- C4** PROPOSED CONCRETE GUTTER. MATCH EXISTING CONC. THICKNESS. COORDINATE WORK WITH CITY OF ALBANY.
- C5** PROPOSED 6' HIGH CEDAR WOOD PRIVACY FENCE. SEE DETAIL 10/C3.0.
- C6** PROPOSED ASPHALT PAVEMENT. SEE DETAIL 2/C3.0.
- C7** PROPOSED CONCRETE SLAB. SEE DETAIL 1/C3.0.
- C8** PROPOSED SITE RETAINING WALL. SEE DRAWING C2.1 FOR WALL ELEVATIONS.
- C9** PROPOSED CROSSWALK - SEE DETAIL 9/C3.0.
- C10** RELOCATED LIGHT POLE. COORDINATE WITH CITY OF ALBANY.
- C11** 7 LEASED PARKING SPACES FROM 22 HOLLAND AVENUE IN FAVOR OF 42 & 47 BESCH AVENUE. SPACES ARE NOT ASSIGNED, BUT ARE ALLOCATED.
- C12** BOTANICAL NAME: QUERCUS ROBUR
COMMON NAME: ENGLISH OAK
INITIAL SIZE: 2"-2.5" CALIPER TRUNK (MIN.)
QUANTITY: 7
- C13** PROPOSED CONCRETE DRIVEWAY APRON AND BUFFER STRIP. SEE CITY STANDARD DETAIL DW-4 ON DRAWING C3.5.
- C14** BOTANICAL NAME: BUXUS MICROPHYLLA VAR. JAPONICA 'WINTER GEM'
COMMON NAME: WINTER GEM BOXWOOD
QUANTITY: 18
- C15** STORMWATER PLANTER AREA. SEE DETAIL 4/C3.2 AND DRAWING C2.1.
- C16** PROPOSED 1,500 SF CIVIC SPACE AREA. REFER TO ARCHITECTURAL DRAWINGS.
- C17** PROPOSED 4' WIDE CONCRETE SIDEWALK - SEE CITY STANDARD DETAIL SW-1 ON DRAWING C3.5.
- C18** PICNIC TABLE (2 TOTAL).
- C19** BENCH (5 TOTAL).
- C20** BOTANICAL NAME: EUONYMUS JAPONICUS 'AUREO-MARGINATUS'
COMMON NAME: GOLDEN EUONYMUS
QUANTITY: 12

CITY OF ALBANY NOTES

- GRADING PERMIT WITH GRADING EASEMENT REQUIRED. CONTACT PATRICK MCCUTCHEON, ENGINEERING DIVISION. PH: 518-434-2387.
- STREET OPENING PERMITS AND ROW ACCESS APPLICATION ARE REQUIRED. CONTACT GARY BOHL, DEPARTMENT OF GENERAL SERVICES. PH: 518-462-3519.

SITE STATISTICS

	EXISTING	% COV.	PROPOSED	% COV.
LOT SIZE	29,036 SF +/-		UNCHANGED	
LOT WIDTH (22' MIN.)	217.2 FT		UNCHANGED	
IMPERVIOUS (80% MAX)	0 SF	0%	16,620 SF	57.3%
GREEN SPACE	29,036 SF	100%	12,416 SF	42.7%
TOTAL	29,036 SF		29,036 SF	

SITE LAYOUT PLAN

New Construction

Hackett Boulevard Apartments

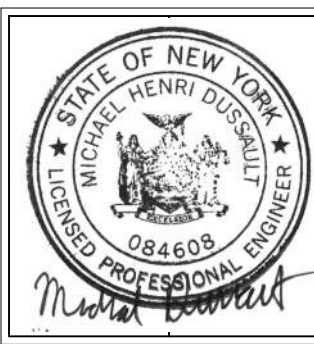
Albany, NY 12209

42 Besch Avenue

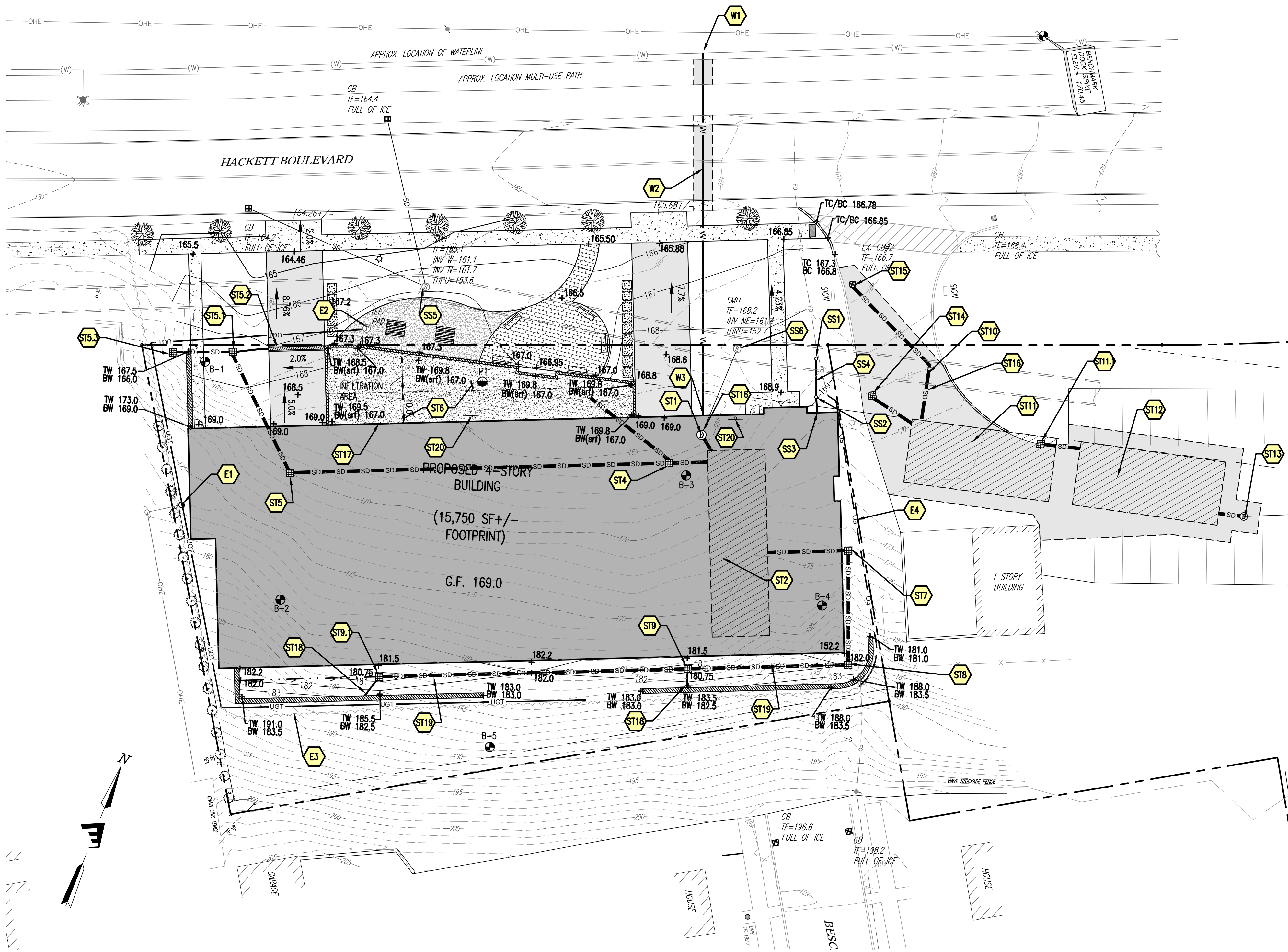
DRAWN BY:	MJD
DATE:	2/12/2021
SCALE:	AS NOTED
JOB No.:	EV# 20483
SHEET:	

C2.0

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
APRIL 30, 2021



REVISION DESCRIPTION	DATE	CONSULTANT
1 REV. PER UPDATED SURVEY	02/25/2021	
2 REV. PER CITY COMMENTS	04/09/2021	
3 REV. PER CITY COMMENTS	04/30/2021	



ALBANY DEPARTMENT OF WATER NOTES

- SWPPP INSPECTIONS MUST BE PERFORMED BY A QUALIFIED PROFESSIONAL AND SUBMITTED TO MS4 COORDINATOR AT DEPARTMENT OF WATER WITHIN 24 HOURS OF INSPECTION COMPLETION.
- A PRE-CONSTRUCTION MEETING IS REQUIRED.
- A SITE ASSESSMENT THAT CERTIFIES EROSION AND SEDIMENT CONTROLS DESCRIBED IN THE SWPPP ARE IN PLACE PRIOR TO CONSTRUCTION COMMENCEMENT MUST BE COMPLETED BY A QUALIFIED PROFESSIONAL AND SUBMITTED TO MS4 COORDINATOR AT DEPARTMENT OF WATER WITHIN 24 HOURS OF INSPECTION COMPLETION.
- PRESSURE AND LEAKAGE TESTING OF THE WATER SERVICE SHALL BE WITNESSED BY DEPARTMENT OF WATER STAFF.
- PRIOR TO USE ALL WATER LINES MUST BE CHLORINATED AND HAVE A BACTERIOLOGICAL TEST PERFORMED IN ACCORDANCE WITH AWWA C651-14 CONTINUOUS FEED METHOD AND CITY OF ALBANY STANDARDS.
- 48 HOURS NOTICE SHALL BE GIVEN TO DEPARTMENT OF WATER FOR INSPECTIONS.
- WATER/SEWER PERMITS SHALL BE REQUIRED FOR THE PROPOSED UTILITY CONNECTIONS PRIOR TO THE START OF CONSTRUCTION.
- HORIZONTAL SEPARATION DISTANCE BETWEEN ALL UTILITIES AND GAS LINES SHALL BE 5 FEET MINIMUM.

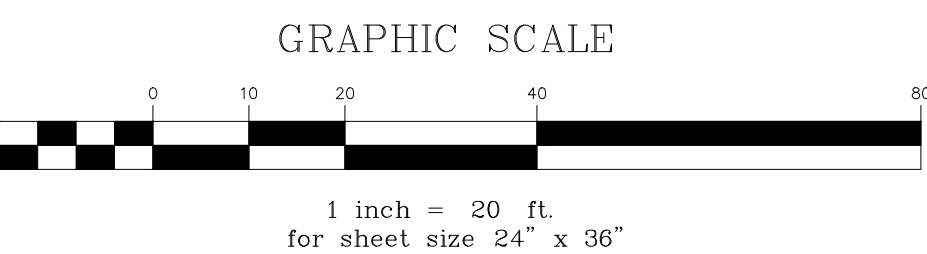
GEOTECHNICAL NOTES

GEOTECHNICAL INVESTIGATIONS PERFORMED BY TERRACON CONSULTANTS - NY, INC. FEBRUARY 2021.

B-1 SEE GEOTECHNICAL ENGINEERING REPORT BY TERRACON CONSULTANTS - NY, INC. FOR INFORMATION FOR SOIL BORINGS B-1 THROUGH B-5.

STORMWATER INFILTRATION

P1 STORMWATER INFILTRATION PERFORMED BY ENGINEERING VENTURES, P.C. APRIL 2021. TESTING CONDUCTED IN ACCORDANCE WITH APPENDIX D OF THE NYS STORMWATER MANAGEMENT DESIGN MANUAL (JANUARY, 2015) YIELDING RESULTS OF 2.25" PER HOUR.
HOUR 1: 3.0"
HOUR 2: 2.5"
HOUR 3: 2.25"
HOUR 4: 2.25"



SANITARY SEWER SCHEDULE

- SS1 PROVIDE CLEANOUT AND 6 x6 x6 TEE. EXTEND PIPE TO AND CORE IN FIELD INTO COMBINED SEWER. COORDINATE WITH CITY OF ALBANY WATER/SEWER DEPARTMENT
RIM ELEV OF CLEANOUT = 168.70
INV. INTO TEE FROM BLDG = 163.50
TOP OF COMBINED SEWER = 160.0+/- (VERIFY EXISTING INVERT IN FIELD)
- SS2 PROPOSED 6" RECTORSEAL CLEAN CHECK BACKWATER VALVE
MODEL 97026 OR APPROVED EQUIVALENT
- SS3 SANITARY CONNECTION TO BUILDING
INV. 164.00
- SS4 PROPOSED 6" PVC SDR26 SANITARY LATERAL
(AT 2.0% MIN)
- SS5 RAISE SEWER MANHOLE RIM TO ELEV 166.9
SEE DETAIL 6/C3.2
- SS6 RAISE SEWER MANHOLE RIM TO ELEV 168.5
SEE DETAIL 6/C3.2

SEE PROPOSED SANITARY DETAILS ON SHEET C3.1 AND PROFILES ON SHEET C2.2

PROPOSED SURFACES LEGEND

- PROPOSED BUILDING
- PROPOSED PAVEMENT
- PROPOSED CONCRETE
- PROPOSED STORMWATER PLANTER
- PROPOSED CONCRETE PAVERS.
- PROPOSED STONE DUST.

STORMWATER SCHEDULE

- ST1 REUSED EXISTING MANHOLE
NEW RIM 169.00
NEW INV. IN 161.75 (FROM ST2)
EX. INV. OUT (8") 160.0+/-
(VERIFY EX. INVERT IN FIELD)
- ST2 PROPOSED 45,000 GAL. CONCRETE STORMWATER TANK
SEE STRUCTURAL BUILDING DRAWINGS
SEE OUTLET STRUCTURE DETAIL ON SHEET C3.2
INV. IN (12") 162.70 (FROM ST4)
INV. IN (12") 165.00 (FROM ST7)
INV. OUT (8") 161.75
- ST3 (NOT USED)
- ST4 PROPOSED 4' I.D. CB
RIM 168.70
INV. IN (12") 162.90 (FROM ST5)
INV. IN (12") 163.70 (FROM ST6)
INV. OUT (12") 162.80
SUMP 160.80
- ST5 PROPOSED 3' I.D. CB
RIM 168.70
INV. IN (12") 163.65 (FROM ST5.1)
INV. OUT (12") 163.55
SUMP 161.55
- ST5.1 PROPOSED 3' I.D. CB
RIM 167.00
INV. IN (12") 164.0 (FROM ST5.3)
INV. IN (6") 164.5 (FROM ST5.2)
INV. OUT (12") 163.90
SUMP 161.90
- ST5.2 PROPOSED TRENCH DRAIN
SEE DETAIL 6/C3.1
INV. OUT (6") 166.0
- ST5.3 PROPOSED 3' I.D. CB
RIM 167.20
INV. OUT (12") 164.20
SUMP 162.20
- ST6 PROPOSED STORMWATER PLANTER
SEE DETAIL 4/C3.2
- ST7 PROPOSED 3' I.D. CB
RIM 174.25
INV. IN (12") 168.00
INV. OUT (12") 166.50
SUMP 164.50
- ST8 PROPOSED 3' I.D. CB
RIM 182.0
INV. IN (12") 174.70
INV. OUT (12") 173.50
SUMP 171.50
- ST9 PROPOSED 3' I.D. CB
RIM 180.75
INV. IN (6" UD) 175.75
INV. IN (12") 175.25
INV. OUT (12") 175.00
SUMP 173.00
- ST9.1 PROPOSED 3' I.D. CB
RIM 180.75
INV. IN (6" UD) 176.25
INV. OUT (12") 175.75
SUMP 173.75
- ST10 PROPOSED CONNECTION STRUCTURE TO EXISTING 7" COMBINED SEWER.
SEE DETAIL 5/C3.1.
- ST11 PROPOSED SUBSURFACE DETENTION BASIN #1
COORDINATE WITH ADJACENT LANDOWNER
SEE DETAIL 5/C3.2
- ST11.1 PROPOSED INLINE DRAIN ON UNDERGROUND DETENTION CHAMBERS.
COORDINATE WITH UNDERGROUND CHAMBER MANUFACTURER ON MATERIALS, SIZE, AND CONNECTION INFORMATION.
RIM 172.0
- ST12 PROPOSED SUBSURFACE DETENTION BASIN #2
COORDINATE WITH ADJACENT LANDOWNER
SEE DETAIL 5/C3.2
- ST13 PROPOSED STORM MANHOLE W/ CONTECH CDS2015-4-C WQ UNIT
(SEE DETAIL-SHEET C3.2)
RIM ELEV. 176.10
EX INV IN (12" HDPE) 172.20+/- (VERIFY IN FIELD)
INV. OUT (12" HDPE) 170.40
SUMP ELEV. 165.90
- ST14 PROPOSED 3' I.D. CB
RIM 168.90
INV. OUT (12") 165.90
SUMP 164.90
- ST15 EXISTING CATCH BASIN STRUCTURE TO BE UTILIZED IF POSSIBLE. CORE NEW OPENING IN EXISTING CATCH BASIN. COORDINATE WITH CITY OF ALBANY WATER/SEWER DEPARTMENT.
INV. 163.50
IF EXISTING CATCH BASIN IS NOT ABLE TO BE REUSED, CONTRACTOR TO REPLACE CATCH BASIN WITH NEW STRUCTURE. COORDINATE WITH ENGINEER AND CITY OF ALBANY WATER/SEWER DEPARTMENT.
- ST16 PROPOSED STORM WATER BACKWATER VALVE TO MATCH PIPE SIZE

STORM PIPE TABLE

ST2	TO	ST1	5 LF OF 8" PVC AT 5.00%	ST15	TO	ST10	38 LF OF 12" HDPE AT 1.32%
ST5.1	TO	ST5	43 LF OF 12" HDPE AT 0.58%	ST17	TO	ST9	5 LF OF 6" PVC AT 2.0%
ST5.2	TO	ST5.1	10 LF OF 6" PVC AT 15.00%				
ST5.3	TO	ST5.1	18 LF OF 12" PVC AT 1.11%				
ST11	TO	ST10	13 LF OF 12" HDPE AT 15.38%				
ST12	TO	ST11	12 LF OF 12" HDPE AT 8.33%				
ST13	TO	ST12	5 LF OF 12" HDPE AT 5.5%				
ST14	TO	ST11	16 LF OF 12" HDPE AT 0.62%				

FOR ALL OTHER PIPE RUNS NOT SHOWN IN THIS TABLE, SEE PROFILES ON SHEET C2.3

ELEC/TELECOM SHEDULE

- E1 RELOCATE GUY WIRE. COORDINATE WITH UTILITY COMPANY
- E2 RAISE TELECOM MANHOLE RIM TO ELEV 167.45
- E3 RE-ROUTED UNDERGROUND TELEPHONE LINE. COORDINATE WITH UTILITY COMPANY. VERIFY EXACT LOCATION OF EXISTING LINE IN FIELD.
- E4 RE-ROUTED UNDERGROUND FIBER OPTICS LINE. COORDINATE WITH UTILITY COMPANY. VERIFY EXACT LOCATION OF EXISTING LINE IN FIELD.
- W1 6"x16" MUELLER S.S. TAPPING SLEEVE AND VALVE. THE CONTRACTOR SHALL PROVIDE TAPPING SLEEVE AND VALVE. ALBANY WATER DEPARTMENT SHALL PERFORM THE WET TAP.
- W2 PROPOSED 6" DIP CL 52 WATER LINE
- W3 WATER CONNECTION TO THE BUILDING

SEE PROPOSED WATER DETAILS ON SHEET C3.0 AND PROFILE ON SHEET C2.2

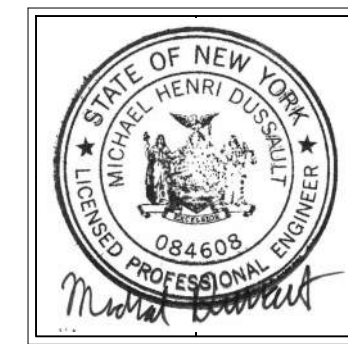
WATER SHEDULE

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
APRIL 30, 2021

GRADING & UTILITY PLAN

PROJECT: New Construction
Hackett Boulevard Apartments
42 Becraft Avenue
Albany, NY 12209

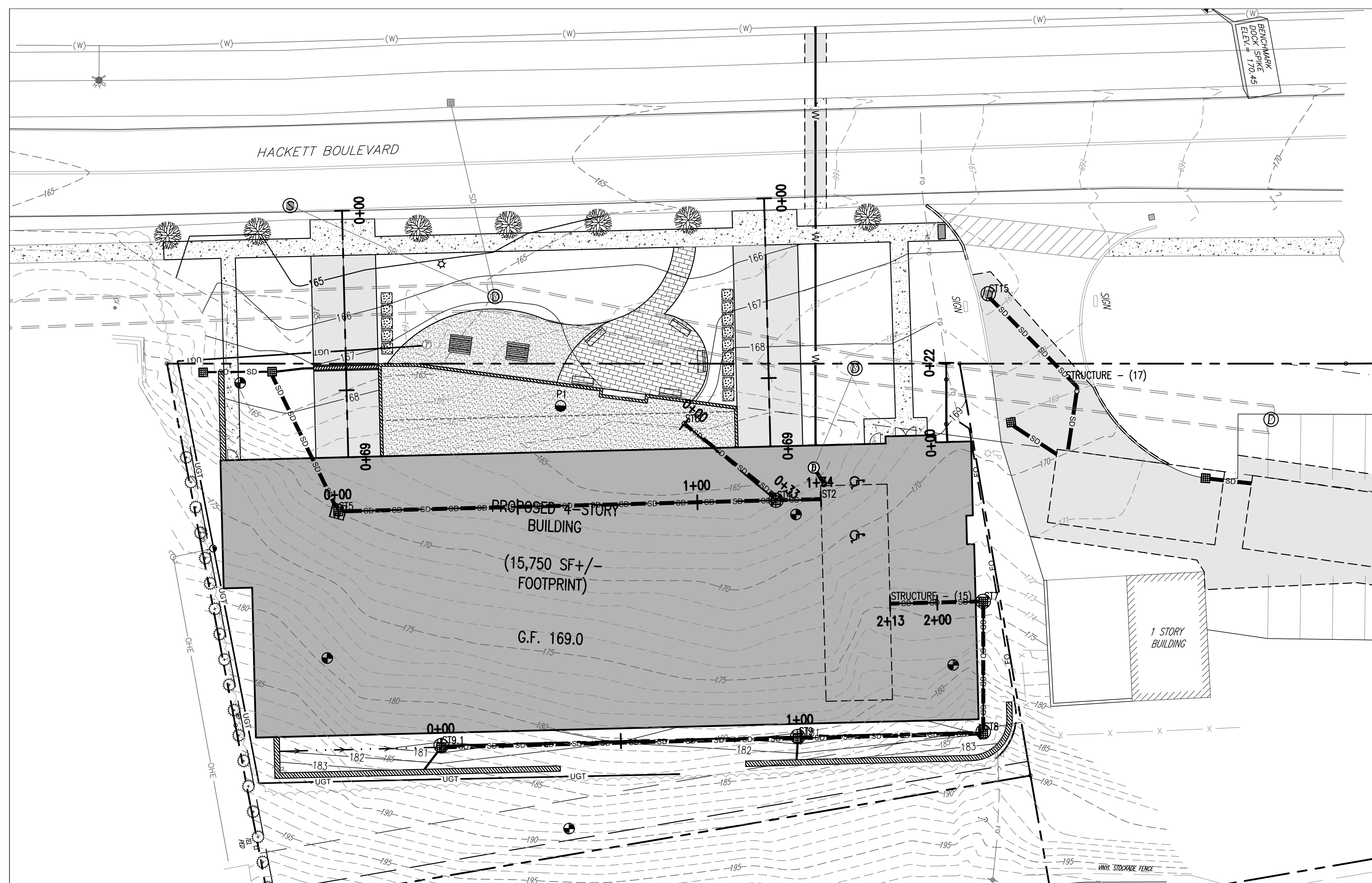
DRAWN BY: MJD
DATE: 2/12/2021
SCALE: AS NOTED
JOB No.: EV# 20483
SHEET: C2.1



REVISION	DESCRIPTION	DATE	CONSULTANT
1	REV. PER UPDATED SURVEY	02/25/2021	
2	REV. PER CITY COMMENTS	04/09/2021	
3	REV. PER CITY COMMENTS	04/30/2021	

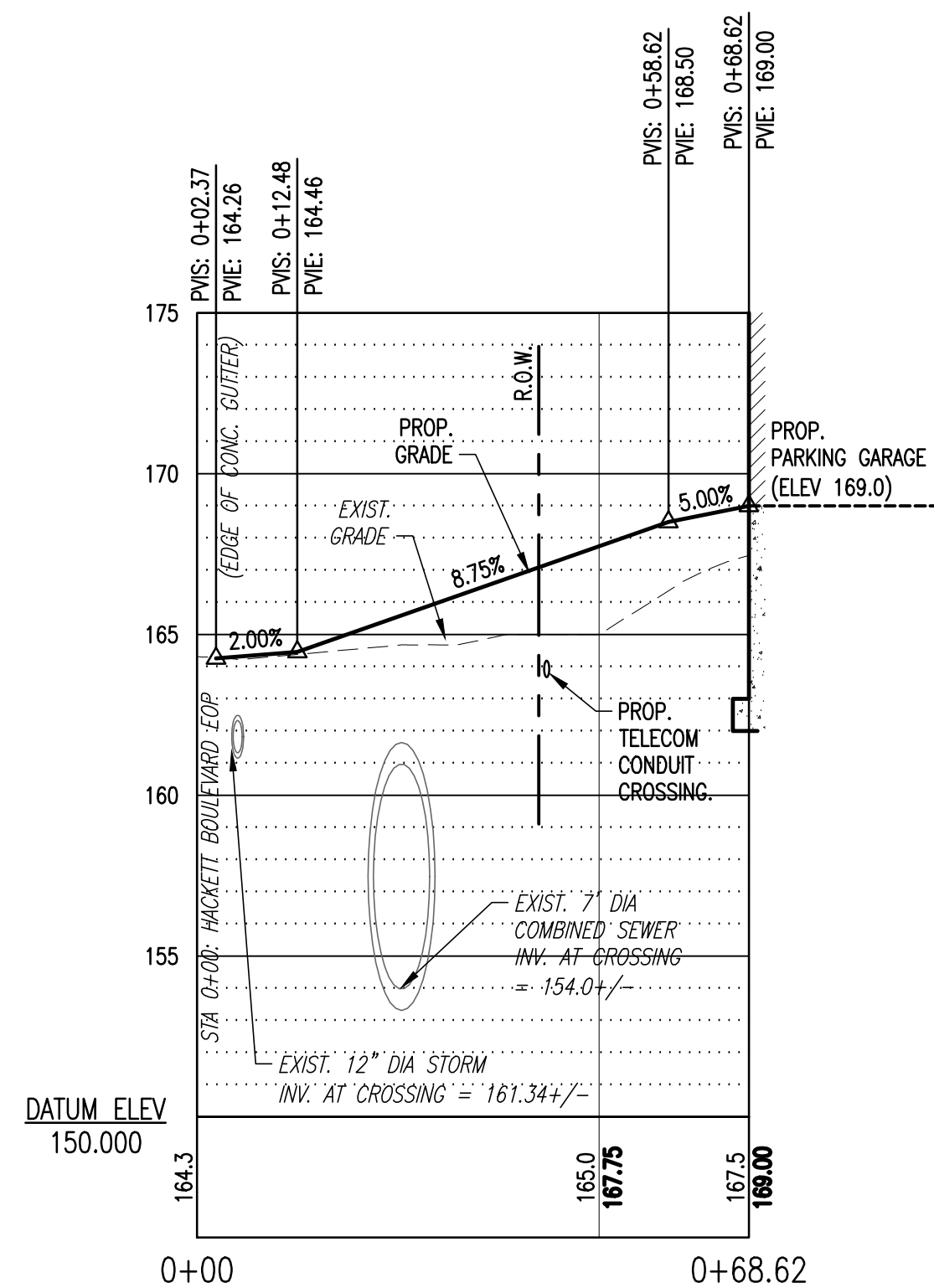
Copyright © 2021, C2 ARCHITECTURE, P.C. The material and ideas contained in this document are confidential and are the proprietary property of C2 ARCHITECTURE, P.C. These materials and ideas shall not be released or otherwise made available to any third party, or reproduced in whole or in part, without the express written consent of C2 ARCHITECTURE, P.C.

C2 ARCHITECTURE, P.C.
www.C2-DesignGroup.com
24 Airport Road | Schenectady, NY 12302 | 518.320.8250



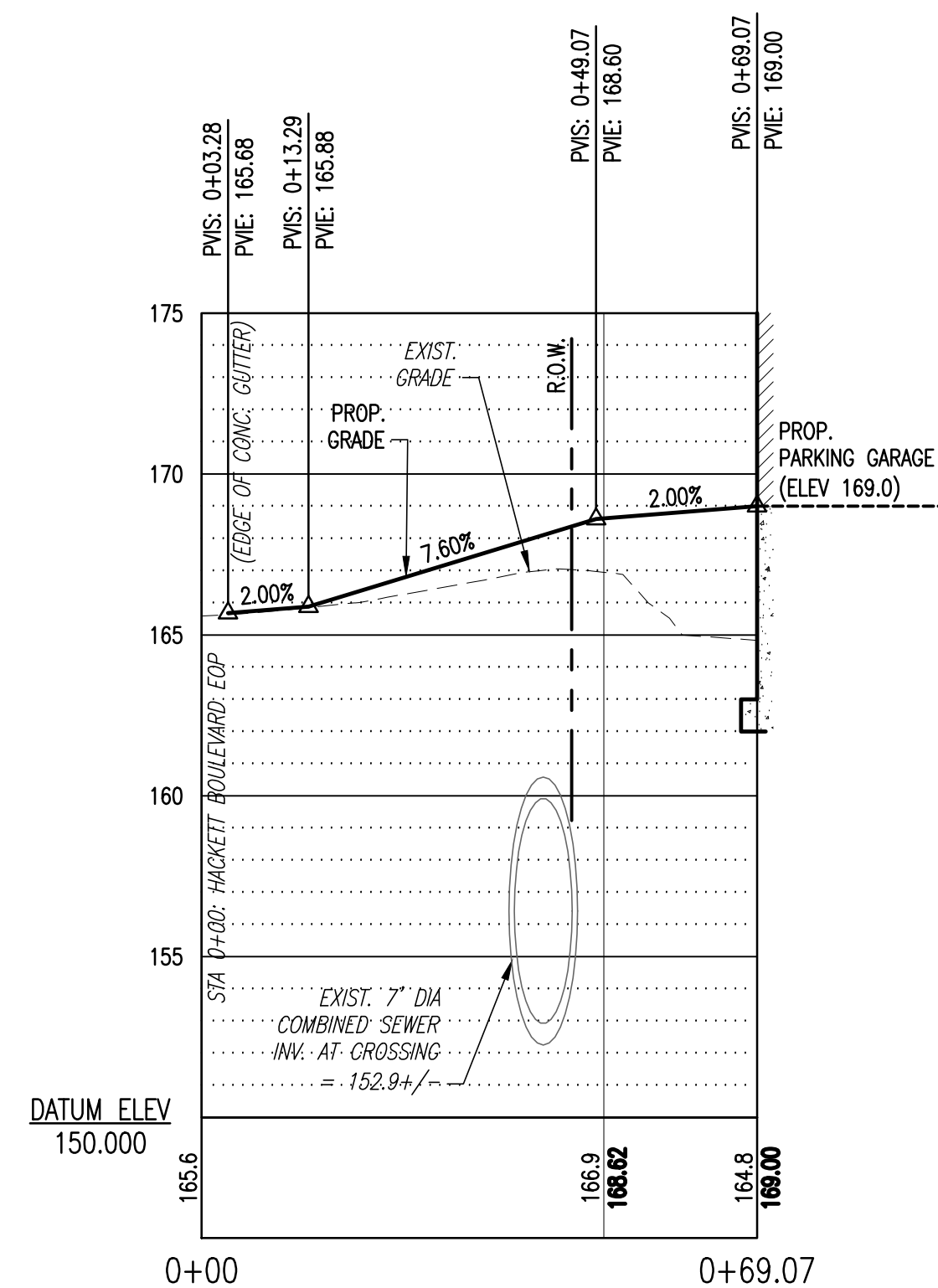
PLAN VIEW

SCALE: 1" = 20'



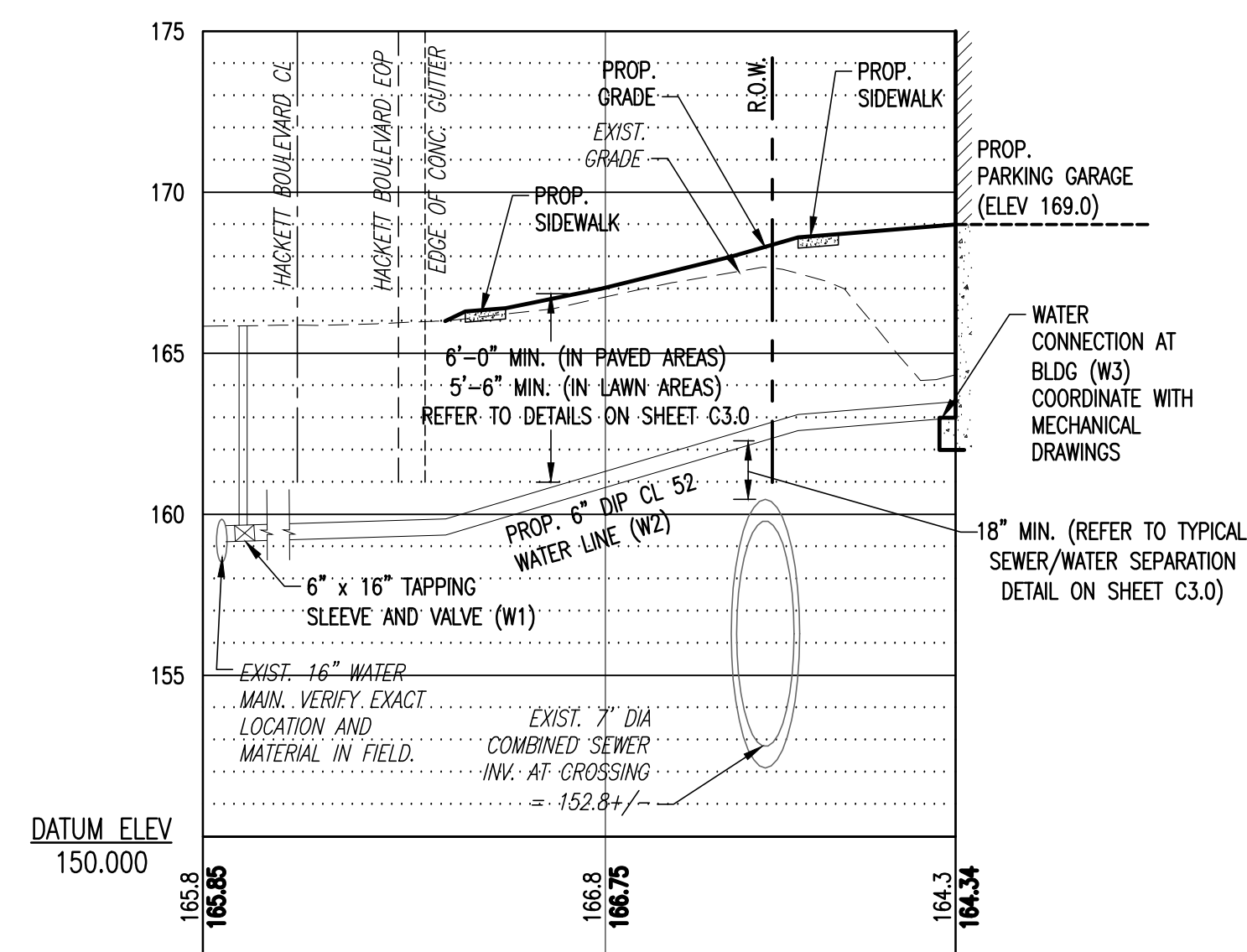
PROP. WEST DRIVEWAY PROFILE

SCALE: HORIZ. 1" = 20'
VERT.: 1" = 5'



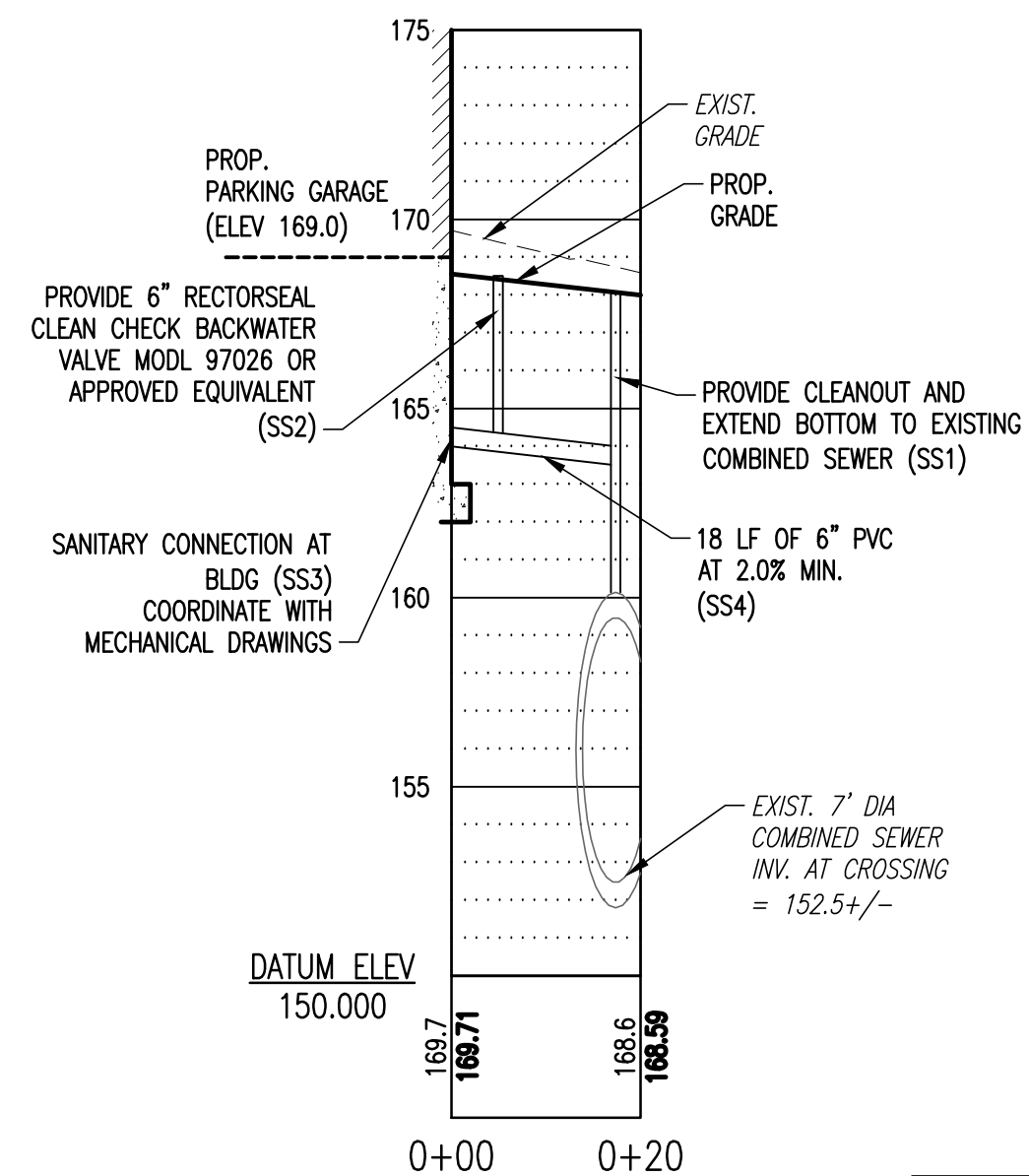
PROP. EAST DRIVEWAY PROFILE

SCALE: HORIZ. 1" = 20'
VERT.: 1" = 5'



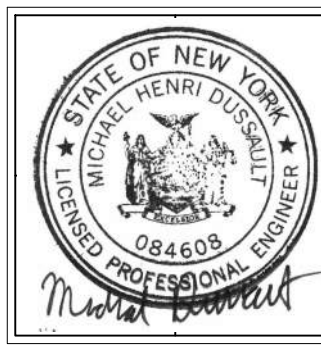
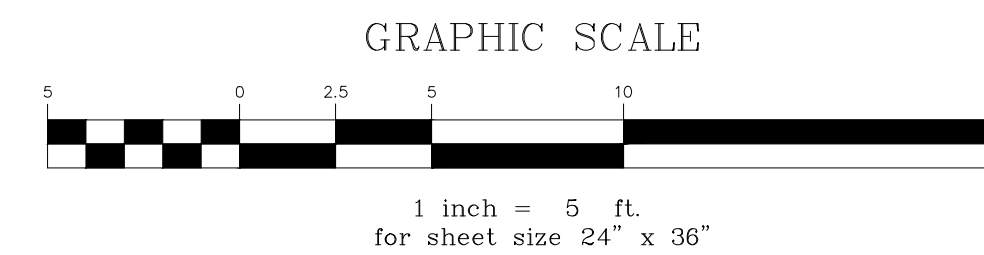
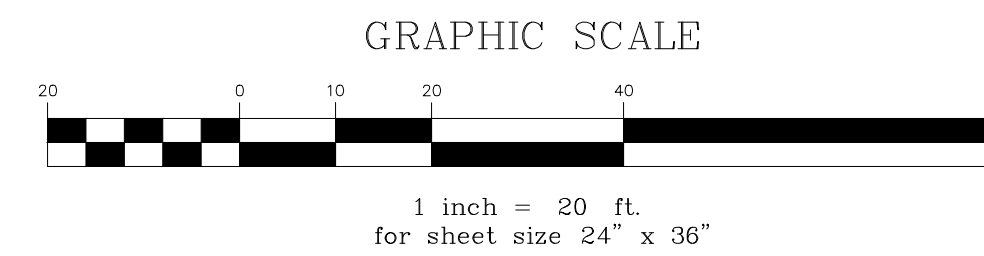
PROP. WATER SERVICE PROFILE


SCALE: HORIZ. 1" = 20'
VERT.: 1" = 5'



PROP. SANITARY LATERAL PROFILE

SCALE: HORIZ. 1" = 20'
VERT.: 1" = 5'




	No.	REVISION DESCRIPTION	DATE:	CONSULTANT:  ENGINEERING VENTURES INC 2000 West Beaver Creek Road Suite 100-104 #2225 Oakville, Ontario L6L 6K2 Canada Tel.: 905.466.6225 Fax: 905.466.6226 Email: info@engventures.com Web: www.engventures.com Lic# 154-S-Architectural www.theengineer.ca/enr.html
	1	REV PER UPDATED SURVEY	02/25/2021	
	2	REV PER CITY COMMENTS	04/09/2021	
	3	REV PER CITY COMMENTS	04/09/2021	

PROFILES (1 OF 2)

New Construction

Hackett Boulevard Apartments
Albany, NY 12202
1000 Hackett Avenue

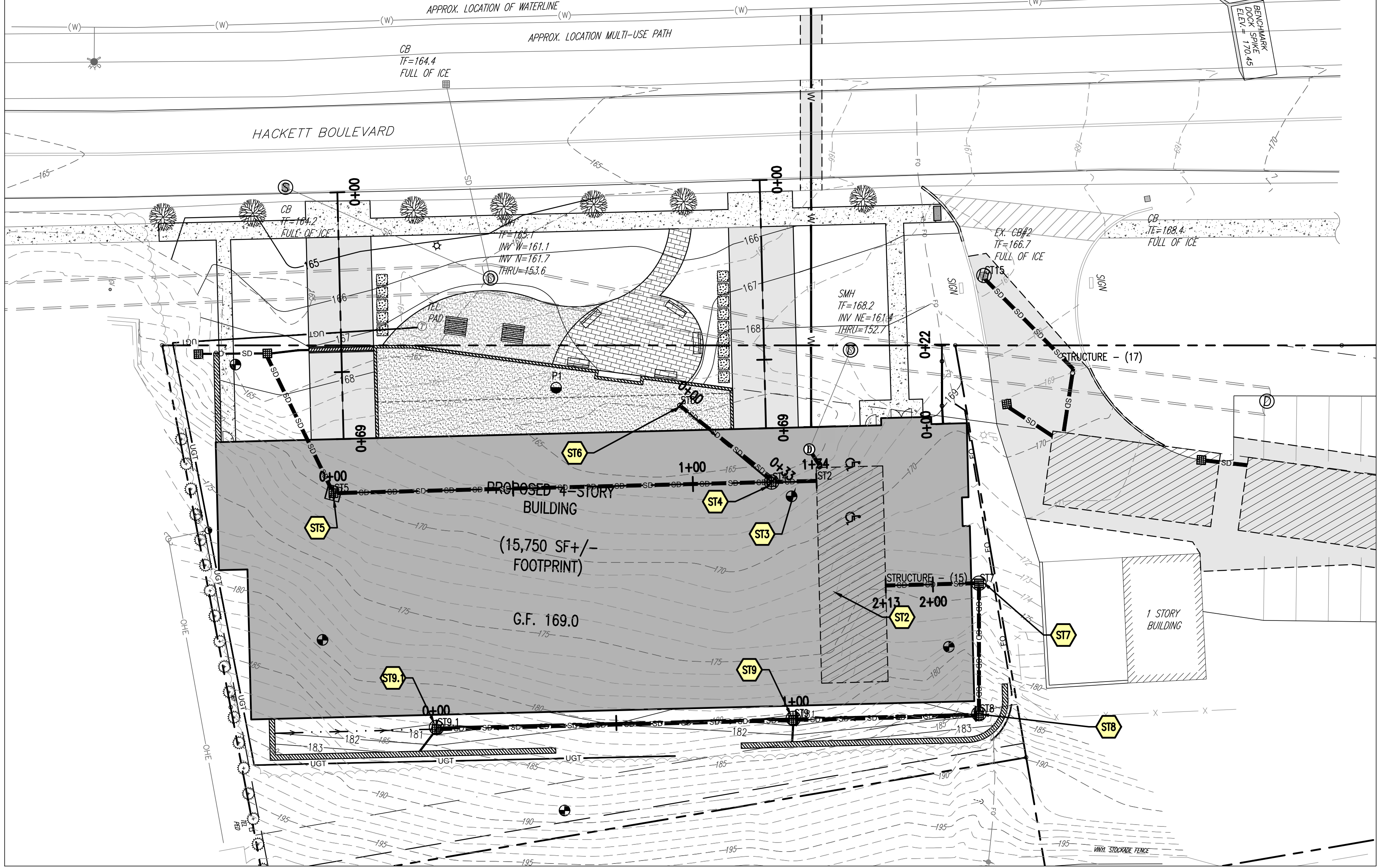
Albany, NY 12209

SHEET TITLE:		42 Besch
PROJECT:		

DRAWN BY:	MJD
DATE:	2/12/2021
SCALE:	AS NOTED
JOB No.:	EV# 20483
SHEET:	

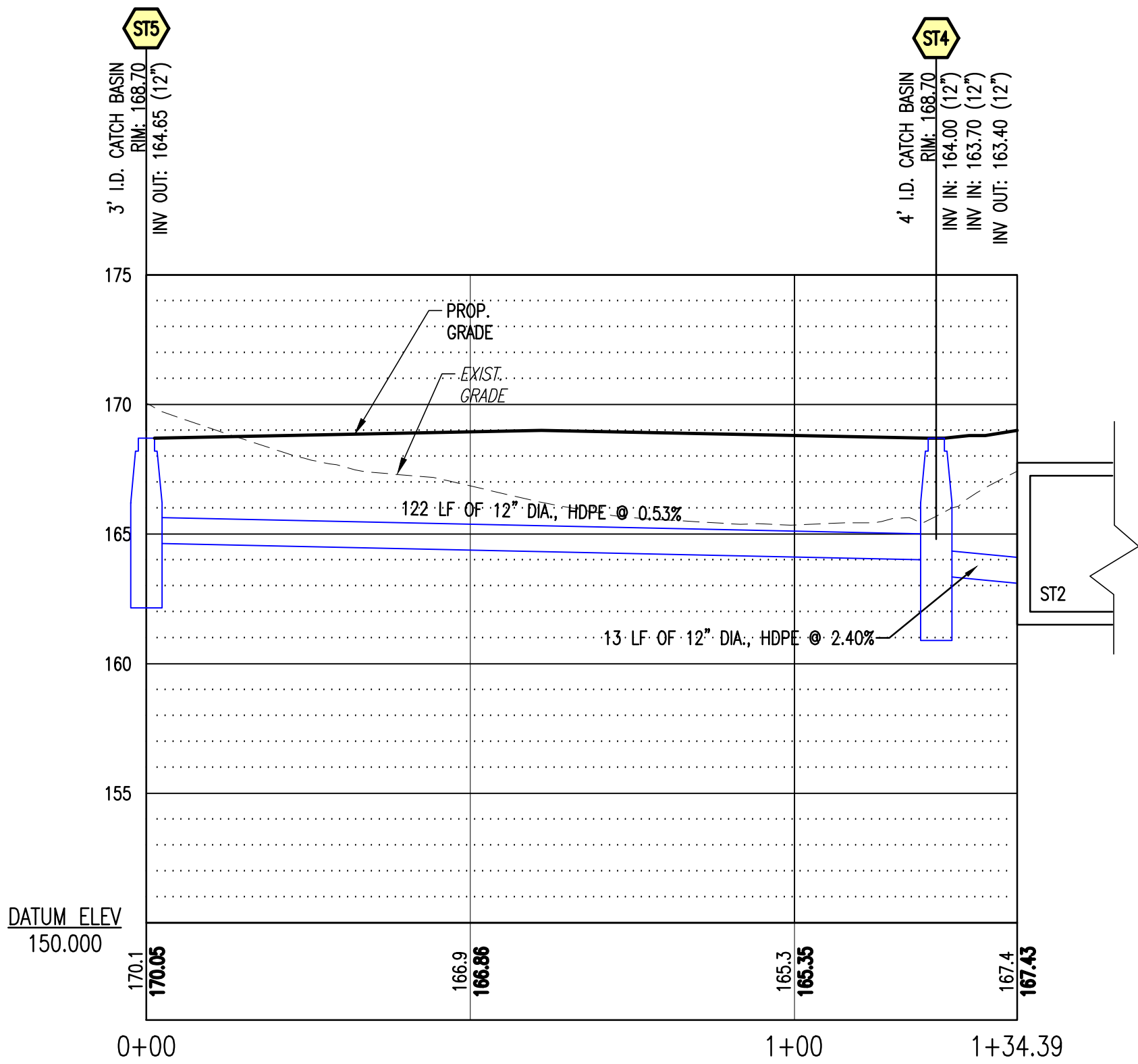
C2.2

Copyright © 2021, C2 ARCHITECTURE, P.C. The material and ideas contained in this document are the proprietary property of C2 ARCHITECTURE, P.C. These materials and ideas shall not be released or otherwise made available to any third party, or reproduced in whole or in part, without the express written consent of C2 ARCHITECTURE, P.C.



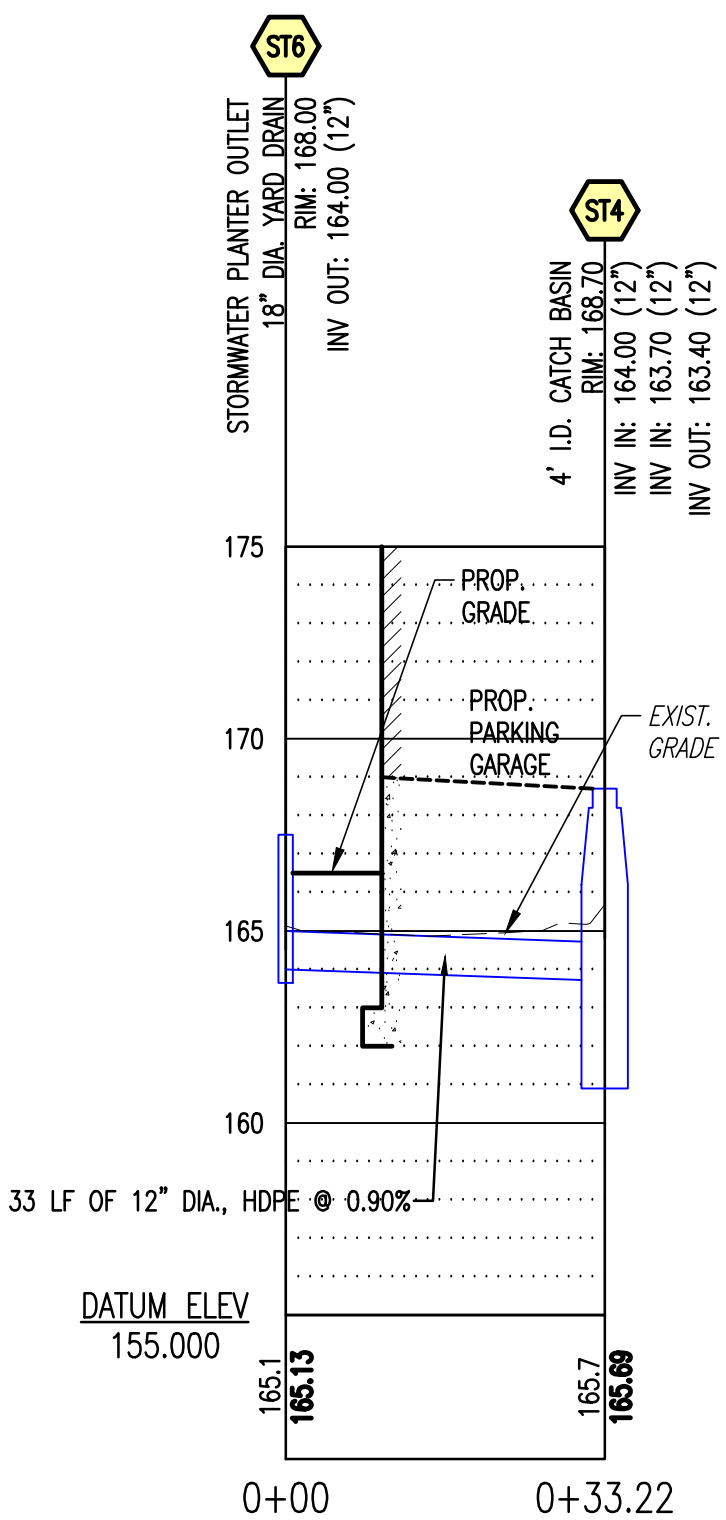
PLAN VIEW

SCALE: 1" = 20'



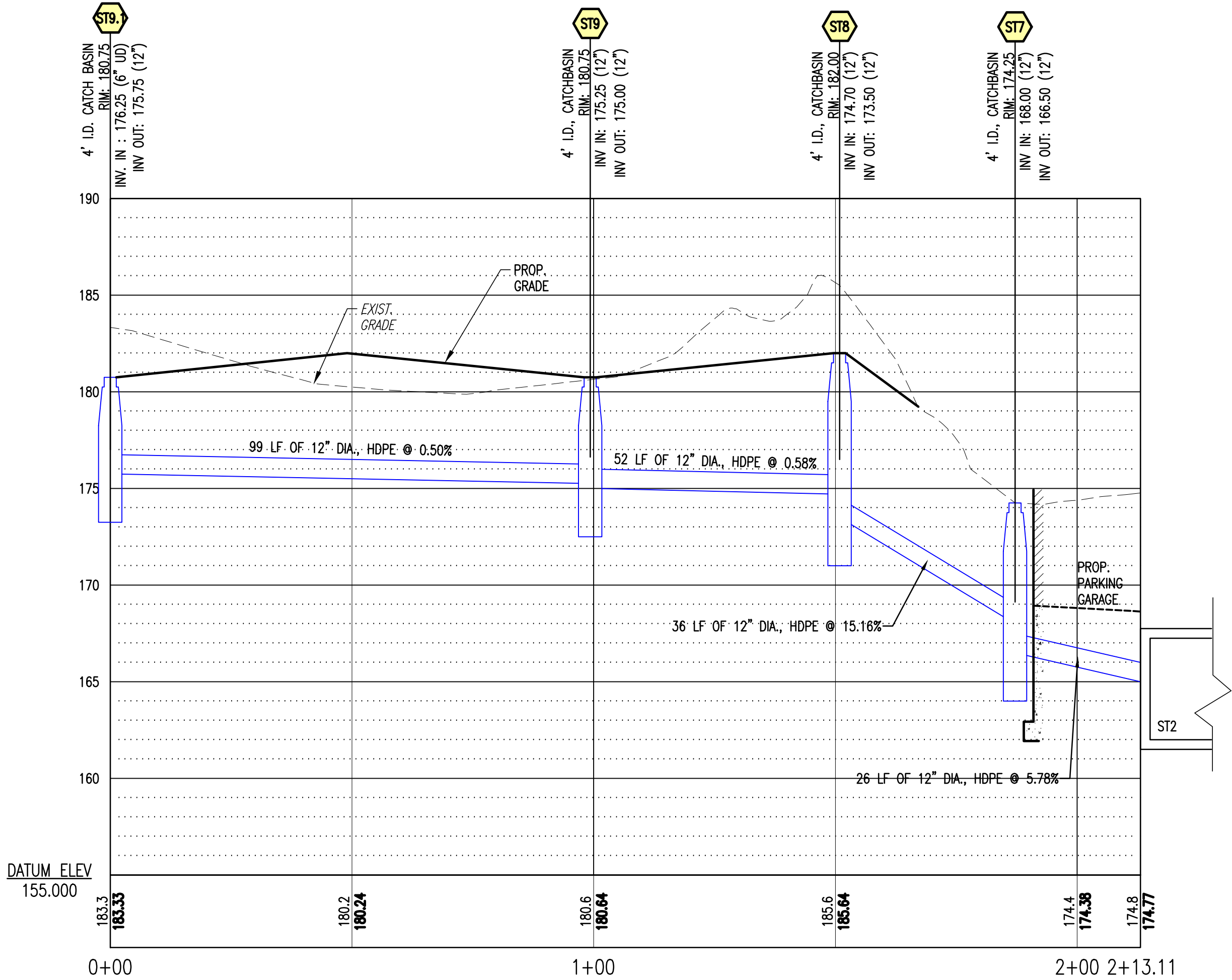
ST5-ST2 STORM PROFILE

SCALE: HORIZ. 1" = 20'
VERT.: 1" = 5'



ST6-ST4 STORM PROFILE

SCALE: HORIZ. 1" = 20'
VERT.: 1" = 5'



ST9.1-ST2 STORM PROFILE

SCALE: HORIZ. 1" = 20'
VERT.: 1" = 5'

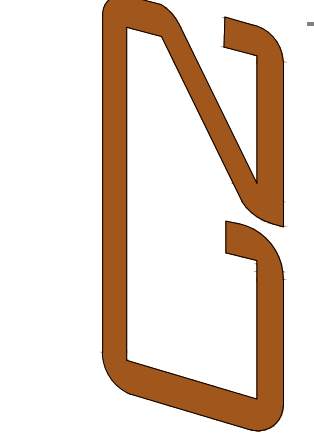
FOR REVIEW ONLY
NOT FOR CONSTRUCTION
APRIL 30, 2021

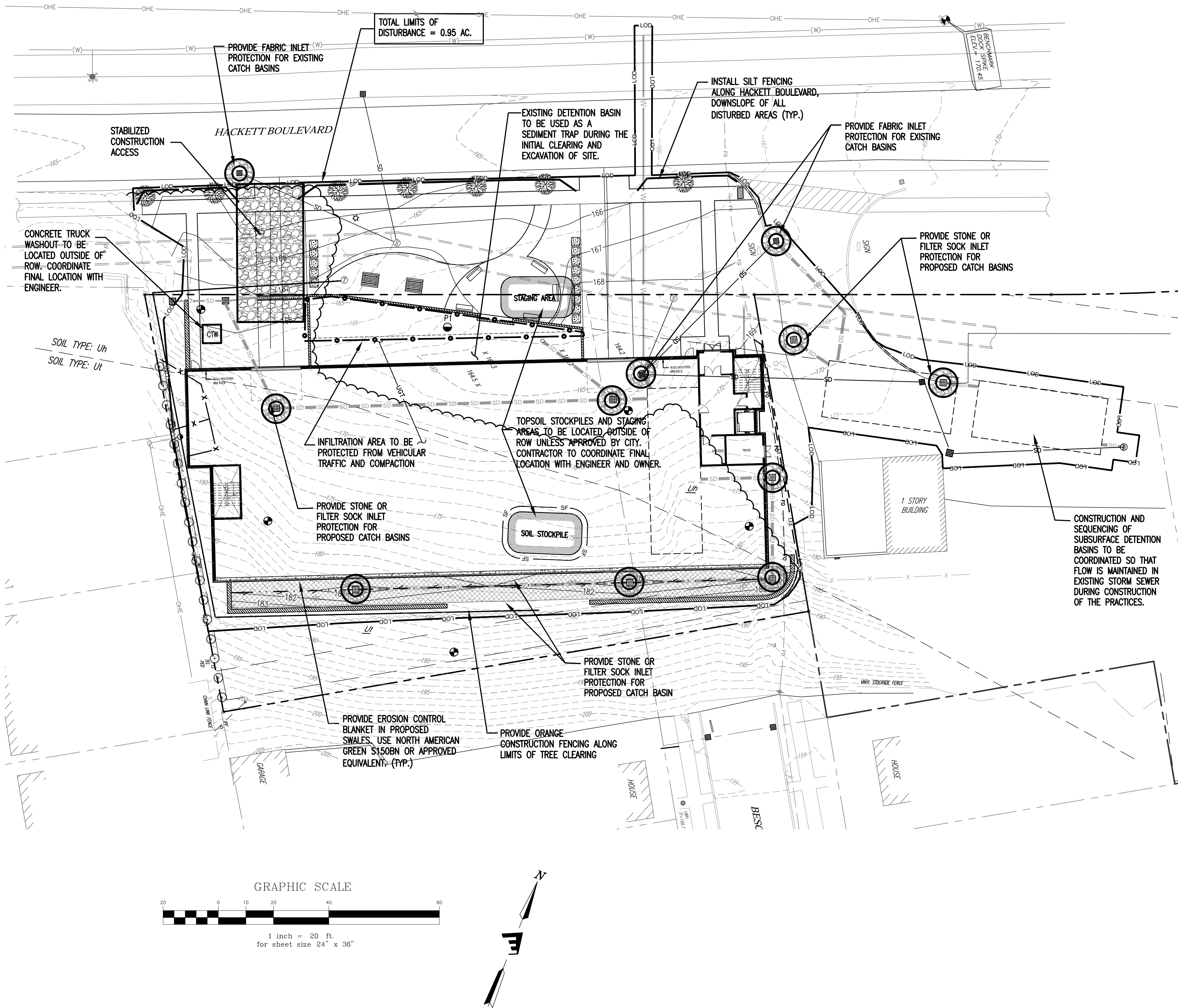
DRAWN BY: MJD
DATE: 2/12/2021
SCALE: AS NOTED
JOB No.: EV# 20483
SHEET: C2.3

PROJECT: New Construction
Hackett Boulevard Apartments
42 Besh Avenue
Albany, NY 12209

PROFILES (2 OF 2)

No.	REVISION DESCRIPTION	DATE	CONSULTANT
1	REV. PER UPDATED SURVEY	02/25/2021	ENGINEERING VENTURES, PC
2	REV. PER CITY COMMENTS	04/09/2021	
3	REV. PER CITY COMMENTS	04/30/2021	





EROSION CONTROL STRUCTURE SCHEDULE

EROSION PREVENTION AND SEDIMENT CONTROL STRATEGY
THE FOLLOWING TECHNIQUES WILL BE UTILIZED AS PART OF A SEDIMENT AND EROSION CONTROL PROGRAM. THE SEDIMENT AND EROSION CONTROL PROGRAM WILL BE IMPLEMENTED IN STAGES. CERTAIN ITEMS FROM ONE STAGE WILL LIKELY OVERLAP OR TAKE PLACE CONCURRENTLY WITH ITEMS FROM OTHER STAGES. REFER TO DETAILS THIS SHEET.

STABILIZED CONSTRUCTION ACCESS
THIS STRUCTURAL MEASURE IS A STABILIZED PAD OF AGGREGATE UNDERLAIN WITH FILTER FABRIC LOCATED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE TO OR FROM A PUBLIC RIGHT-OF-WAY, STREET, ALLEY, SIDEWALK, OR PARKING AREA. THE PURPOSE OF A STABILIZED CONSTRUCTION ACCESS IS TO REDUCE OR ELIMINATE THE TRACKING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY OR STREETS. THIS WILL REMAIN IN PLACE AND BE MAINTAINED UNTIL THE PROJECT SITE HAS BEEN PERMANENTLY STABILIZED.

SILT FENCING
THIS STRUCTURAL MEASURE IS A TEMPORARY BARRIER OF GEOTEXTILE FABRIC USED TO INTERCEPT SEDIMENT LADEN RUNOFF FROM SMALL DRAINAGE AREAS OF DISTURBED SOIL. IT IS INSTALLED ALONG THE PERIMETER OF IMPACTED AREAS AND ALONG THE BASE OF THE FILL SLOPES. ADDITIONALLY, WHEN DESIGNATED ALONG THE LIMITS OF DISTURBANCE, INSTALL CONSTRUCTION FENCE BEHIND THE SILT FENCE. THESE WILL REMAIN IN PLACE AND BE MAINTAINED UNTIL THE PROJECT SITE HAS BEEN PERMANENTLY STABILIZED. SEDIMENT SHALL BE REMOVED FROM BEHIND THE SILT FENCE WHEN IT BECOMES 6 INCHES DEEP AT THE FENCE. THE SILT FENCE WILL BE REPAIRED AS NECESSARY TO MAINTAIN A PROPER SEDIMENT BARRIER.

APPROXIMATE SOIL STOCKPILE AREAS
THESE ARE APPROVED LOCATIONS WHERE TOPSOIL AND OTHER SOIL MATERIALS MAY BE STORED. THESE STOCKPILES WILL BE PROTECTED FROM EROSION BY A NUMBER OF METHODS, INCLUDING INSTALLING SILT FENCING AROUND THE DOWN GRADIENT PERIMETER OF THE STOCKPILE AND SEEDING AND MULCHING THE STOCKPILE WHEN NOT IN USE FOR MORE THAN FIVE DAYS. CONTRACTOR SHALL SUBMIT PROPOSED AREA FOR ENGINEER APPROVAL.

APPROXIMATE STAGING AND WASTE AREAS
THESE ARE APPROVED LOCATIONS WHERE NON-SOIL, NON-ERODIBLE MATERIALS MAY BE STORED. SOILS SHALL NOT BE STORED IN THESE AREAS.

LIMITS OF DISTURBANCE
THE CONTRACTOR SHALL CONTAIN ANY EARTH MOVING ACTIVITIES WITHIN THE DESIGNATED LIMITS SHOWN ON THIS PLAN. THE ENGINEER SHALL REVIEW THE SITE TO MAKE ANY ADJUSTMENTS TO ACCOUNT FOR ENVIRONMENTALLY SENSITIVE AREAS, SPECIMEN TREES AND SPECIAL AREAS OF CONCERN. THE LIMITS SHALL BE DEMARKED WITH ORANGE CONSTRUCTION FENCE, BARRIER TAPE, OR FLAGGING TAPE. THESE WILL REMAIN IN PLACE AND BE MAINTAINED UNTIL THE PROJECT SITE HAS BEEN PERMANENTLY STABILIZED. CONFIRM LOCATION, EXTENTS AND GATES WITH OWNER. FENCE LOCATION AND GATES TO BE RE-ADJUSTED AS NECESSARY BASED ON CM REQUIREMENTS AND COORDINATION.

CONCRETE TRUCK WASHOUT
THIS IS AN APPROVED LOCATION WHERE CONCRETE TRUCK MIXERS AND EQUIPMENT CAN BE WASHED AFTER THEIR LOADS HAVE BEEN DISCHARGED, TO PREVENT HIGHLY ALKALINE RUNOFF FROM ENTERING STORM DRAINAGE SYSTEMS OR LEACHING INTO THE SOIL. THE FACILITY SHALL BE LINED TO PREVENT RUNOFF FROM LEACHING INTO THE SOIL. TEMPORARY SIGNAGE SHALL BE PROVIDED TO DIRECT DRIVERS TO THE FACILITY.

TEMPORARY INLET PROTECTION
INSTALL ON ALL PROPOSED CATCH BASINS. STONE TO BE REMOVED AND REPLACED WITH CLEAN STONE WHEN SEDIMENT IS $\leq 1/2$ DEPTH OF STONE. REMOVE ALL SEDIMENT IF COLLECTED IN STRUCTURE AS SOON AS POSSIBLE.

DUST CONTROL
DUST SHALL BE CONTROLLED THROUGH APPLICATION OF WATER, AS REQUIRED TO PREVENT MIGRATION BEYOND THE PROJECT LIMITS. CONTROL OF DUST REMAINS AN ONGOING RESPONSIBILITY OF THE CONTRACTOR UNTIL THE SITE IS FULLY STABILIZED.

INSPECTION REQUIREMENTS
THE ON-SITE COORDINATOR (OSC) IS RESPONSIBLE FOR INSPECTION OF ALL EPSC MEASURES EVERY 7 DAYS AND AS SOON AS REASONABLY POSSIBLE DURING OR AFTER WEATHER RESULTING IN RUNOFF FROM THE SITE. FULL COMPLIANCE WITH THE REQUIREMENTS OF NEW YORK STATE STANDARDS & SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL, DATED NOVEMBER 2016, IS THE RESPONSIBILITY OF THE CONTRACTOR AND OSC. INSPECTION FREQUENCY MAY BE REDUCED TO MONTHLY IF ALL DISTURBED AREAS HAVE BEEN STABILIZED. INSPECTION AND REPORTING REQUIREMENTS DO NOT CEASE UNTIL THE SITE IS PERMANENTLY STABILIZED.

VEGETATIVE STABILIZATION
ALL SEEDING FOR VEGETATIVE STABILIZATION IS TO TAKE PLACE BETWEEN APRIL 15TH AND SEPTEMBER 15TH UNLESS OTHERWISE APPROVED.

STABILIZATION REQUIREMENTS
TO BE CONSIDERED PERMANENTLY STABILIZED, ALL DISTURBED AREAS MUST BE PROTECTED BY ONE OF THE FOLLOWING: PAVEMENT, GRAVEL, MULCH BEDS, OR VEGETATION (80% MINIMUM COVERAGE). THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ALL SEDIMENT CONTROL MEASURES (SILT FENCE, DISTURBANCE LIMIT MARKERS, INLET PROTECTION, ETC.) AND FOR RESTORATION OF ALL STAGING AND SOIL STOCKPILE AREAS BEFORE FILING NOTICE OF TERMINATION.

SOLID WASTE DISPOSAL
SOLID WASTES SHALL BE COLLECTED ON SITE AND REMOVED TO AN APPROVED OFF-SITE FACILITY. IF WASTES ARE TO BE STORED ON SITE, CONTRACTOR SHALL SUBMIT A WASTE MANAGEMENT PLAN FOR REVIEW AND APPROVAL BY THE DESIGN ENGINEER.

SITE SOILS

SYMBOL	SOIL TYPE	HSG
Uh	UDORTHENTS, CLAYEY-URBAN LAND COMPLEX	D*
Ut	URBAN LAND COMPLEX, 0 TO 8 PERCENT SLOPES	C*

*HSG TYPE ASSUMED TO BE SIMILAR TO EXISTING NON-URBAN LAND SOILS IN THE SURROUNDING AREA OF THE PROJECT. THESE SOILS ARE COMPRISED OF HUDSON SILT LOAM SOILS, WHICH ARE HSG C/D. FOR SATURATED CONDITIONS THAT ARE LIKELY TO EXIST ON THIS SITE IN THE AREA OF Uh SOILS, THE ASSUMED HSG IS 'D'.

SOIL RESTORATION NOTES

- IN ACCORDANCE WITH SECTION 5.1.6 OF THE NYS STORMWATER MANUAL, SOIL RESTORATION TECHNIQUES SHALL BE APPLIED TO ALL PROPOSED LAWN AREAS EXCEPT FOR THE AREA WITHIN THE INFILTRATION BASIN FOOTPRINT. SEE SHEET C1.1. SOIL RESTORATION SHALL CONSIST OF THE FOLLOWING PROCEDURE:
- 1) APPLY THREE (3) INCHES OF COMPOST OF SUBSOIL. COMPOST SHALL BE AGED, FROM PLANT DERIVED MATERIALS, FREE OF VIABLE WEED SEEDS, HAVE NO VISIBLE FREE WATER OR DUST PRODUCED WHEN HANDLING, PASS THROUGH A 1/2" SCREEN, AND HAVE A PH SUITABLE TO GROW DESIRED PLANTS.
 - 2) TILL COMPOST INTO SUBSOIL TO A DEPTH OF AT LEAST 12 INCHES USING A CAT-MOUNTED RIPPER, TRACTOR MOUNTED DISC, OR TILLER, MIXING, AND CIRCULATING AIR AND COMPOST INTO SUBSOILS. IN AREA OF PROPOSED INFILTRATION BASIN, INSTALL ORANGE CONSTRUCTION FENCING AROUND BASIN BOTTOM TO KEEP CONSTRUCTION EQUIPMENT FROM CROSSING THE PROPOSED BASIN BOTTOM.
 - 3) ROCK-PICK UNTIL UPLIFTED STONE/ROCK MATERIALS OF FOUR INCHES AND LARGER SIZE ARE CLEANED OFF THE SITE.
 - 4) APPLY TOPSOIL TO A DEPTH OF 6 INCHES.
 - 5) VEGETATE AS REQUIRED BY APPROVED PLAN.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
APRIL 30, 2021

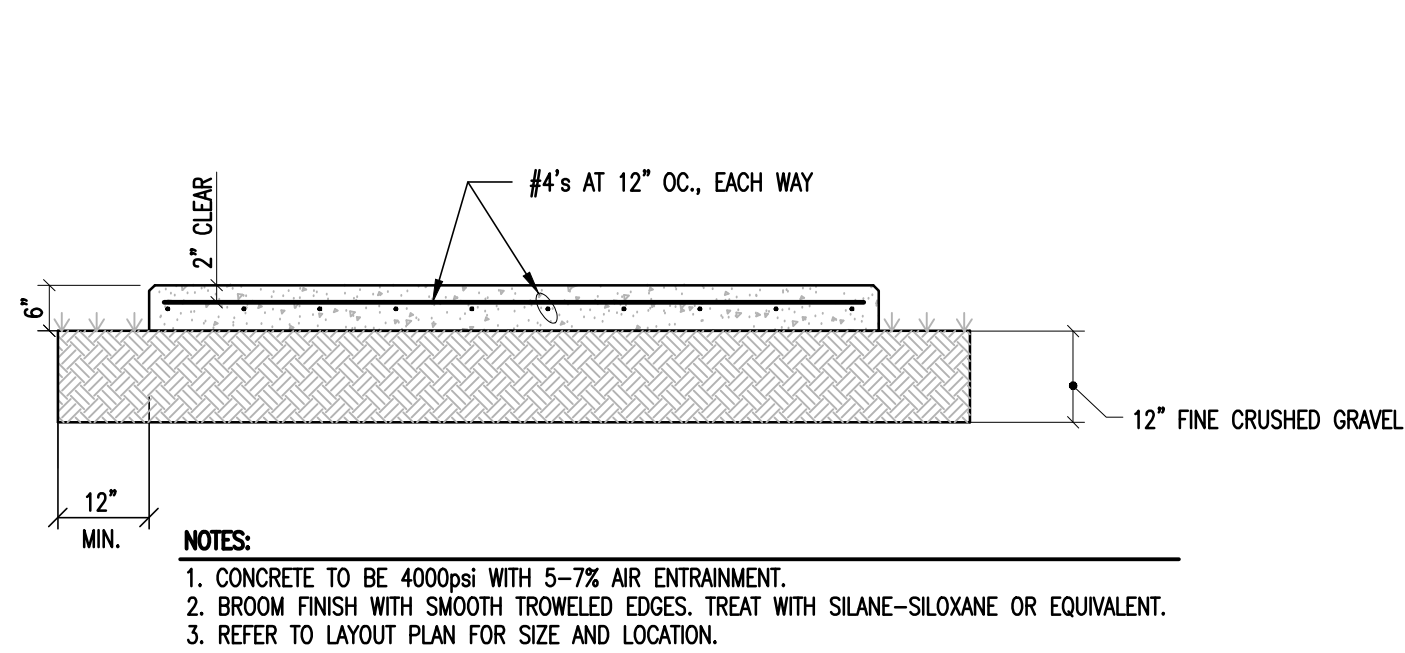
C2 ARCHITECTURE, PC
www.C2-DesignGroup.com
24 Airport Road | Schenectady, ny 12302 | 518.320.8250
Copyright © 2021, C2 ARCHITECTURE, PC. The material and ideas contained in this document are confidential and are the proprietary property of C2 ARCHITECTURE, PC. These materials and ideas shall not be released or otherwise made available to any third party, or reproduced in whole or in part, without the express written consent of C2 ARCHITECTURE, PC.

STATE OF NEW YORK
MICHAEL J. NEW YORK
094608
Professional Engineer
Michael J. New York

ENGINEERING VENTURES, PC
CONSULTANT:
DATE: 02/25/2021
REV. PER CITY COMMENTS: 04/09/2021
REV. PER CITY COMMENTS: 04/30/2021

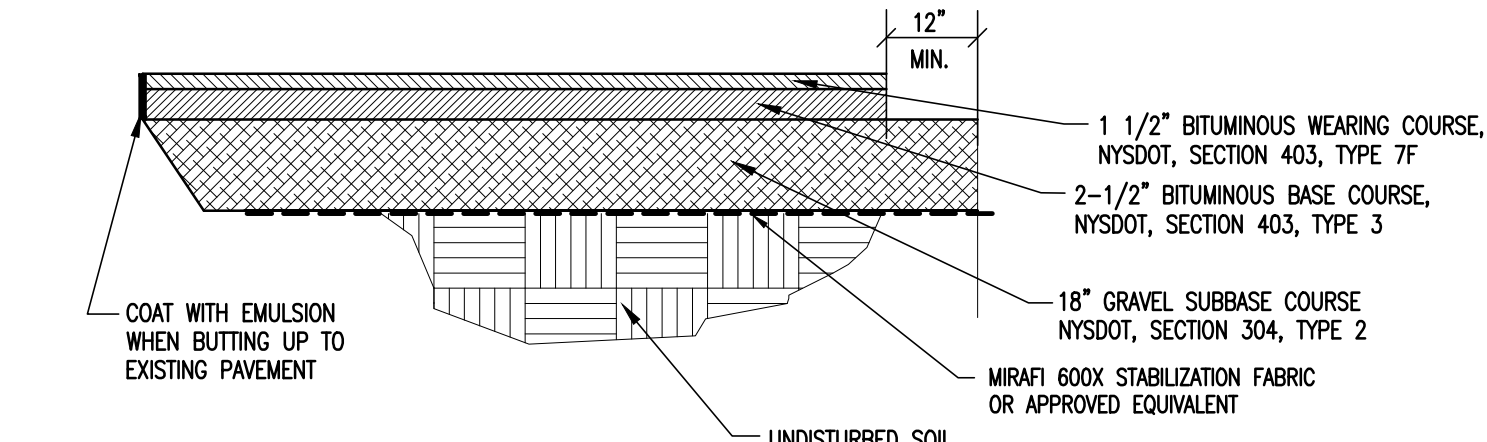
SHEET TITLE: EROSION & SEDIMENT CONTROL PLAN
PROJECT: New Construction
Hackett Boulevard Apartments
Albany, NY 12209
42 Besco Avenue

DRAWN BY: MJD
DATE: 2/12/2021
SCALE: AS NOTED
JOB No.: EV# 20483
SHEET: C2.4



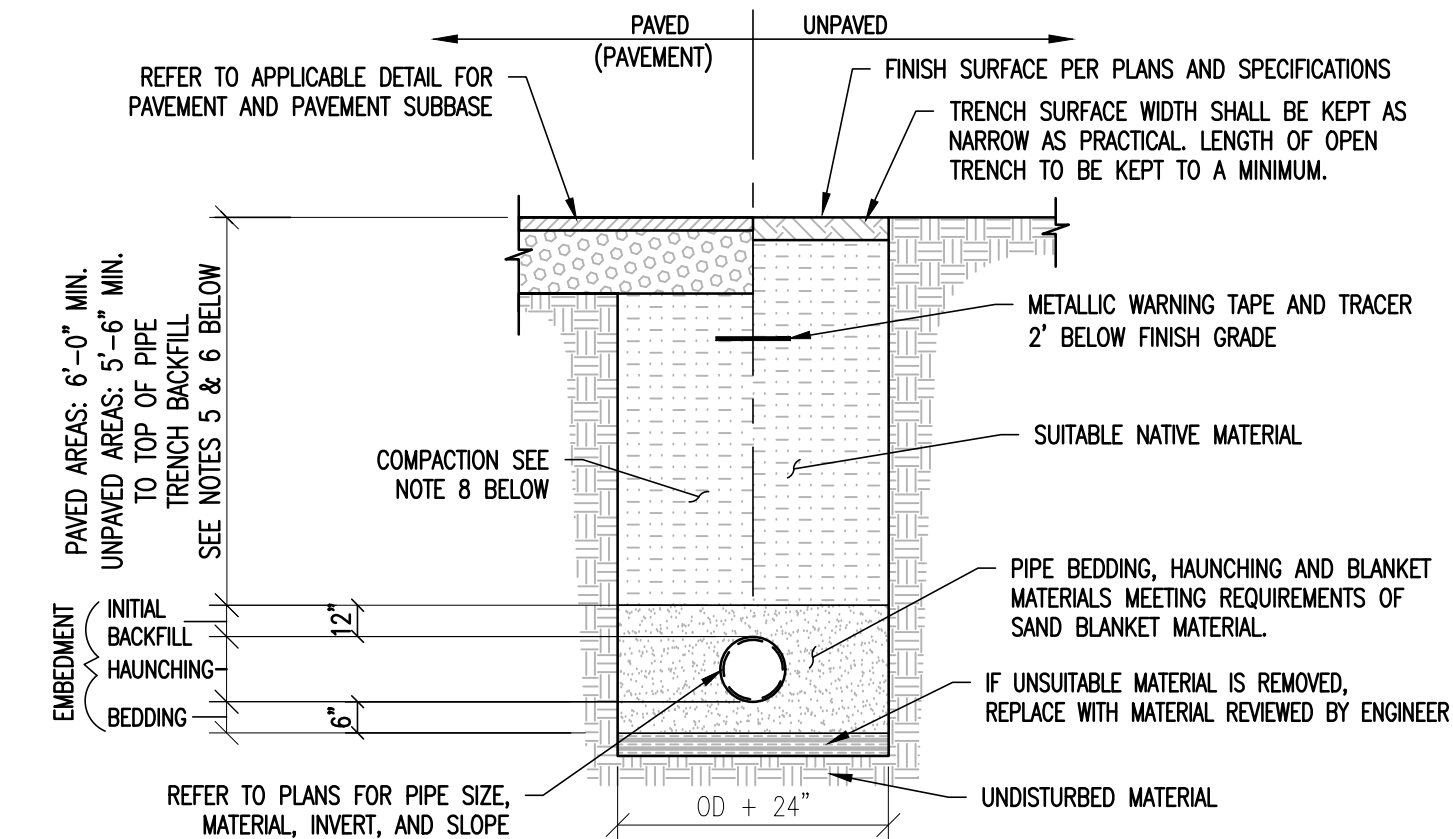
EXTERIOR CONCRETE PAD DETAIL

SCALE: NONE



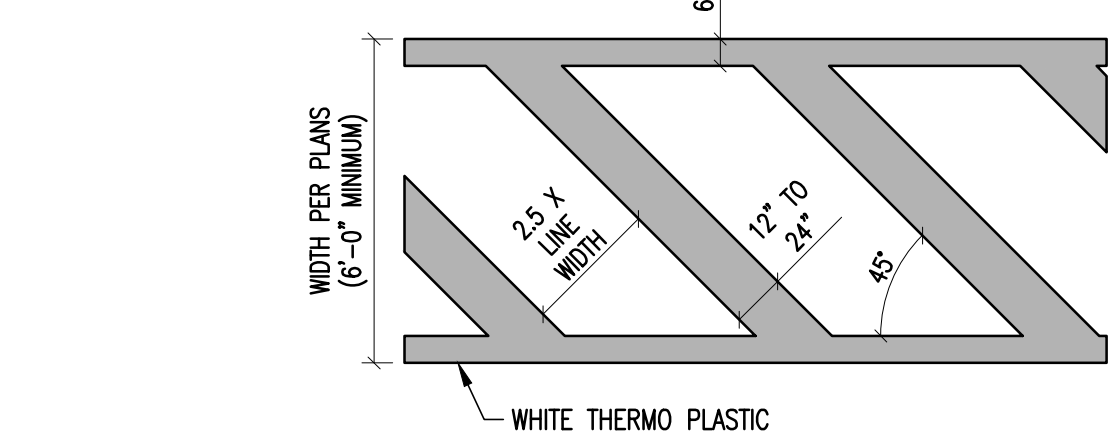
TYPICAL ASPHALT PAVEMENT DETAIL

SCALE: NONE



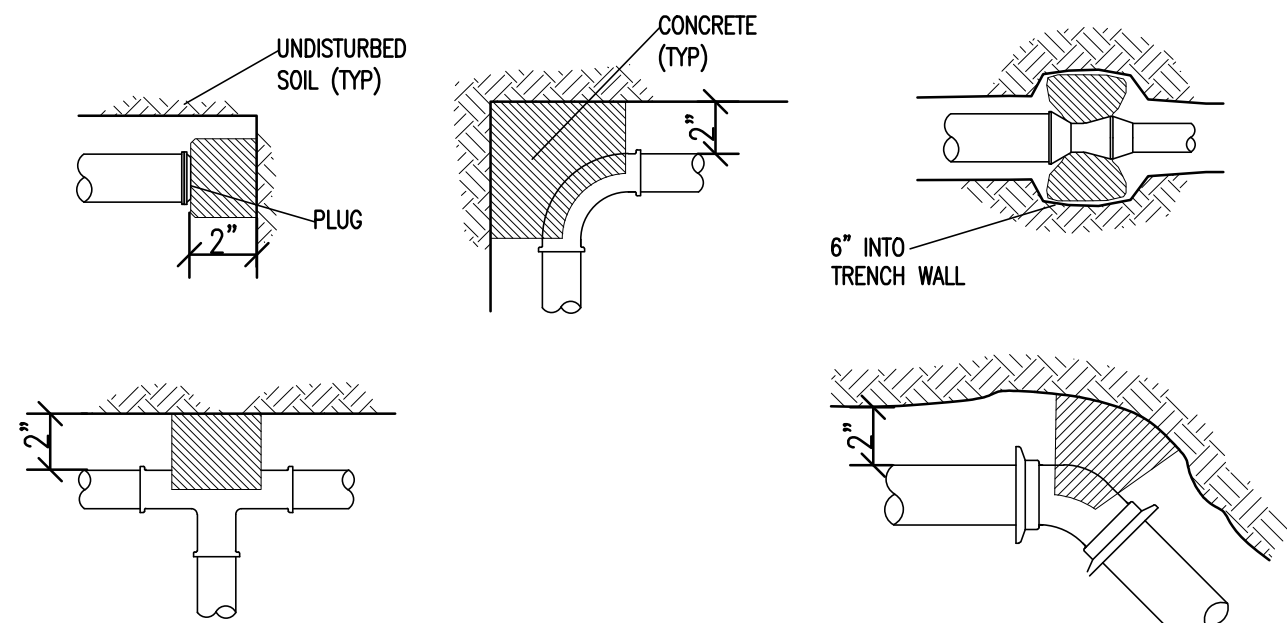
TYPICAL WATER TRENCH DETAIL

SCALE: NONE



TYPICAL CROSSWALK DETAIL

SCALE: NONE



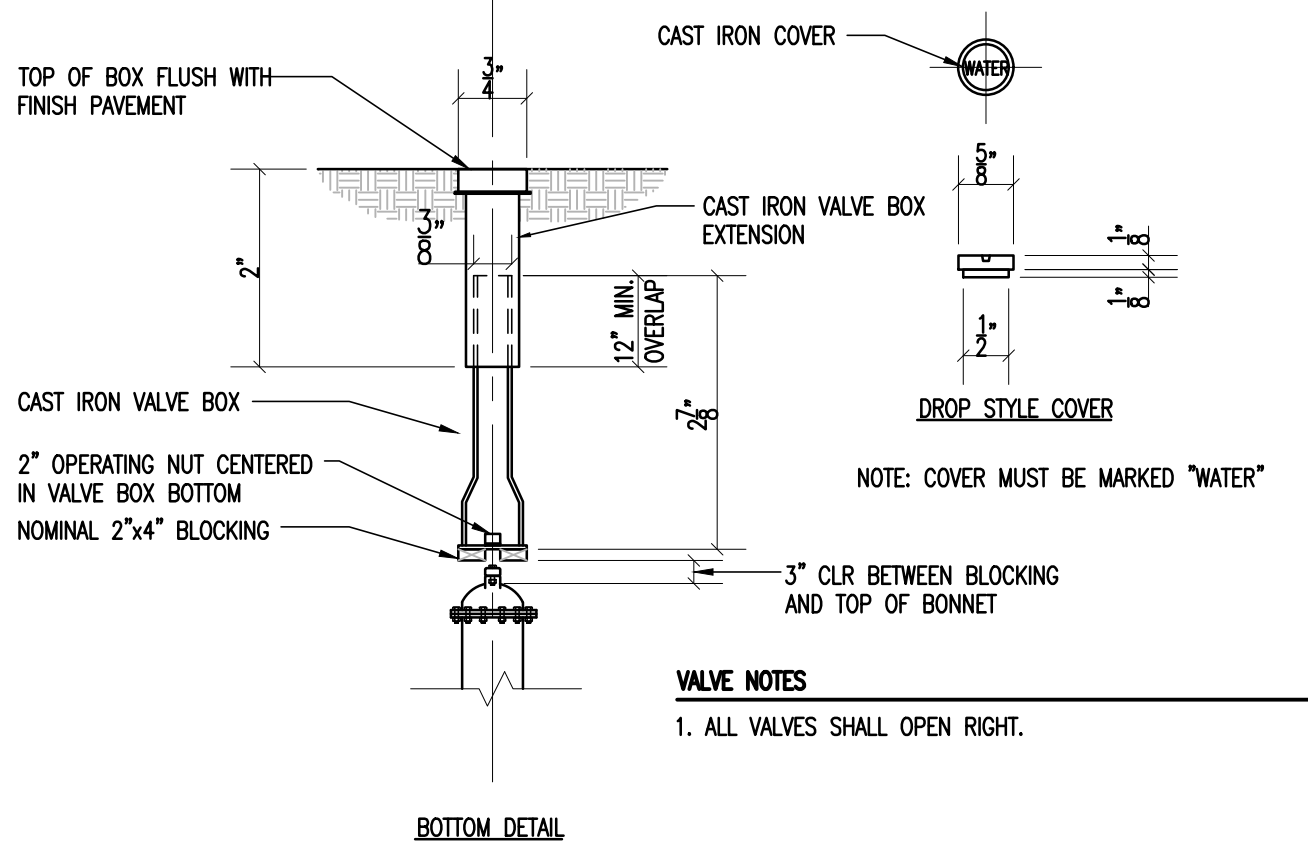
MINIMUM BEARING SURFACE					
PIPE DIA.	TCC	HYD.	90° BEND	45° BEND	END CAP
10"	14	—	17	10	14
8"	8	—	14	7	8
6"	5	6	6	4	5
4"	2	—	3	2	2
2"	1	—	1	1	1

NOTES:

- THRUST BLOCKS SHALL BE PROVIDED AT ALL WATER LINE TEES, HYDRANTS, 90° AND 45° BENDS, REDUCERS, AND END CAPS. ALL CONCRETE SHALL BE 2500 PSI WORKING PRESSURE AND SOIL BEARING CAPACITY OF 1000 LBS/SQ.F.T.

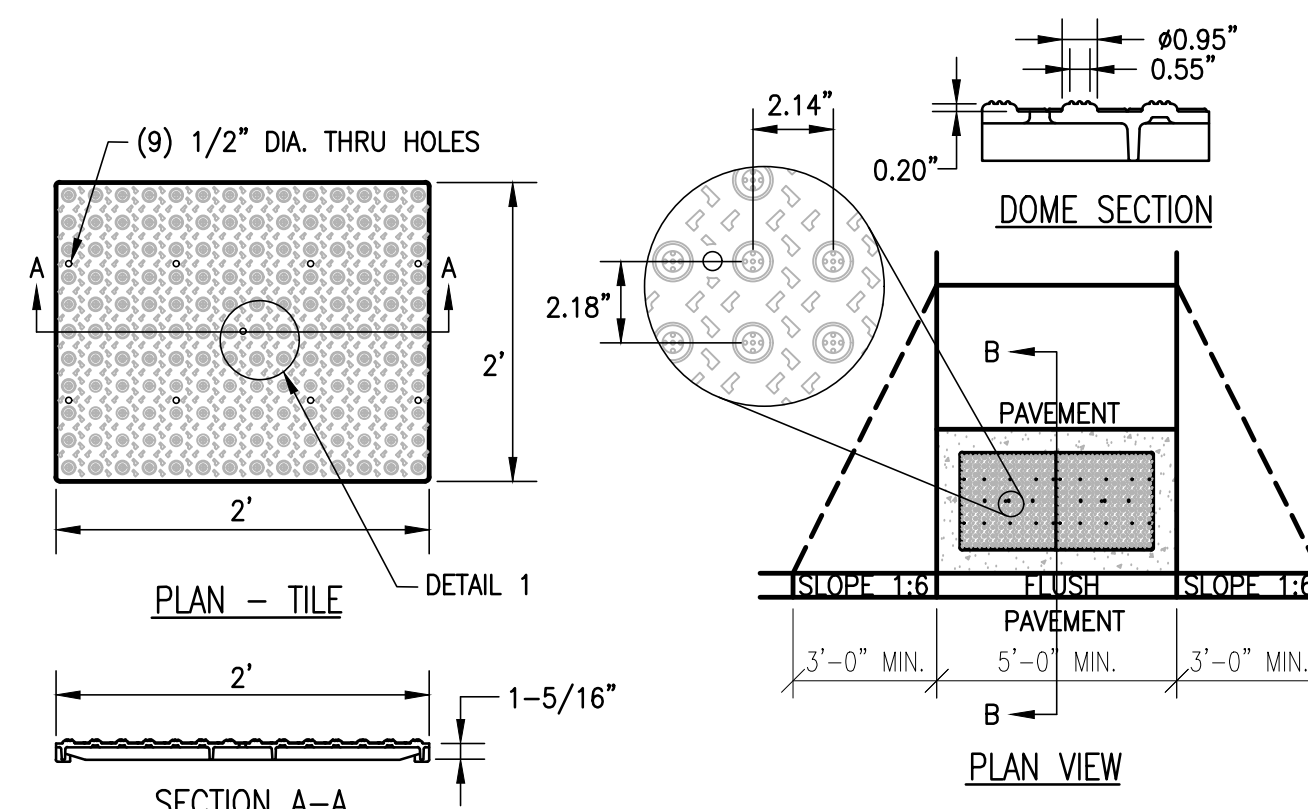
TYPICAL BEARING THRUST BLOCK

NOT TO SCALE



TYPICAL VALVE BOX DETAIL

SCALE: NONE

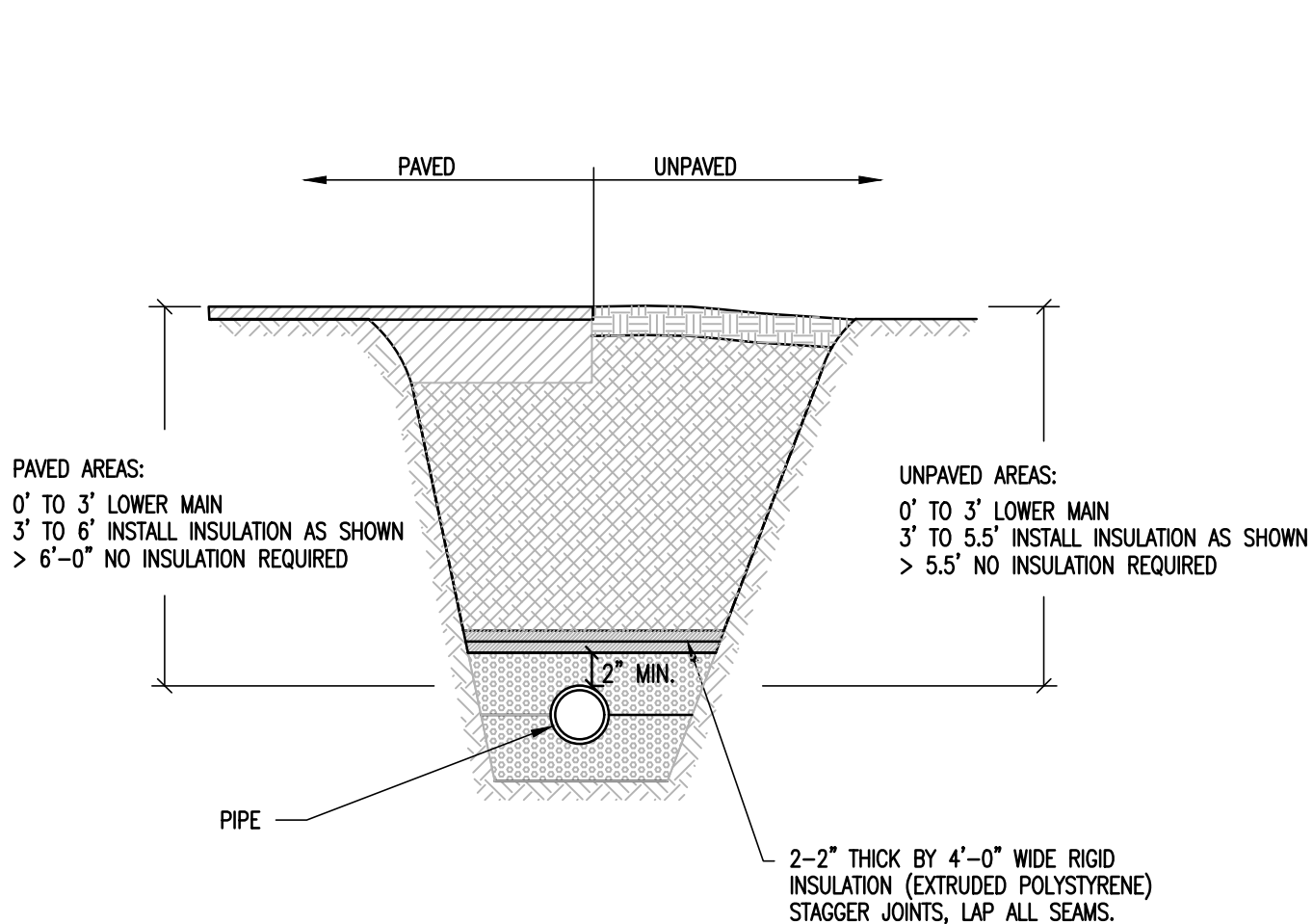


NOTES:

- DETECTABLE WARNING PLATES SHALL BE, NATURAL FINISH, "DURALAST DETECTABLE WARNING PLATES" AS MANUFACTURED BY EAST JORDAN IRON WORKS OR APPROVED EQUAL.
- DETECTABLE WARNING PLATES SHALL BE THE FULL WIDTH OF THE LANDING, BLENDED TRANSITION, OR CURB RAMP THEY ARE A PART OF AND SHALL BE A MINIMUM OF 2 FEET IN DEPTH. THE ROWS OF TRUNCATED DOMES SHALL BE ALIGNED PERPENDICULAR TO THE GRADE BREAK BETWEEN THE RAMP, BLENDED TRANSITION, OR LANDING AND THE STREET TRANSITIONS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES.
- DETECTABLE WARNING PLATES SHALL BE INSTALLED AND FASTENED IN PLACE ACCORDING TO THE MANUFACTURER'S REQUIREMENTS.
- LOCATE THE DETECTABLE WARNING SURFACE AT THE BACK OF THE CURB.

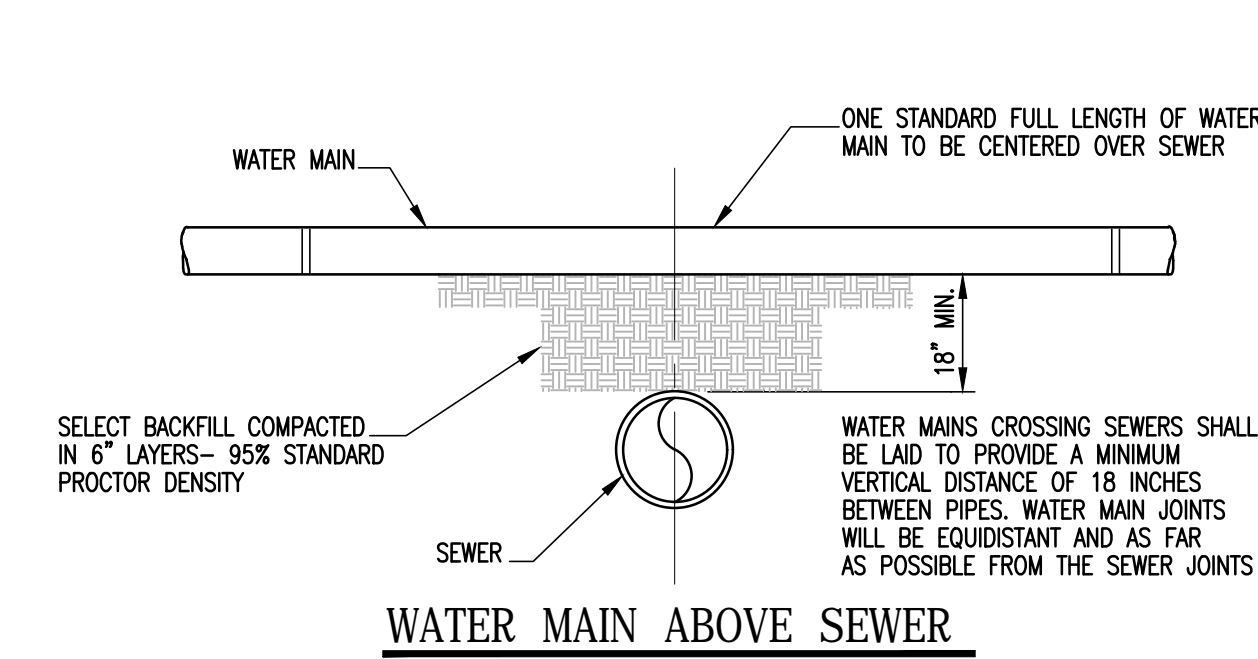
ACCESSIBLE RAMP DETECTABLE WARNING PLATES

SCALE: NONE

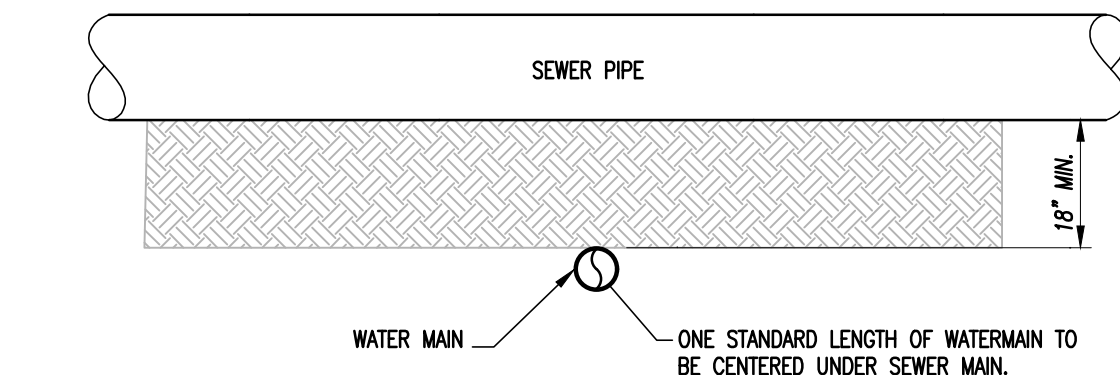


INSULATION OVER SHALLOW WATERLINE DETAIL

SCALE: NONE



WATER MAIN ABOVE SEWER



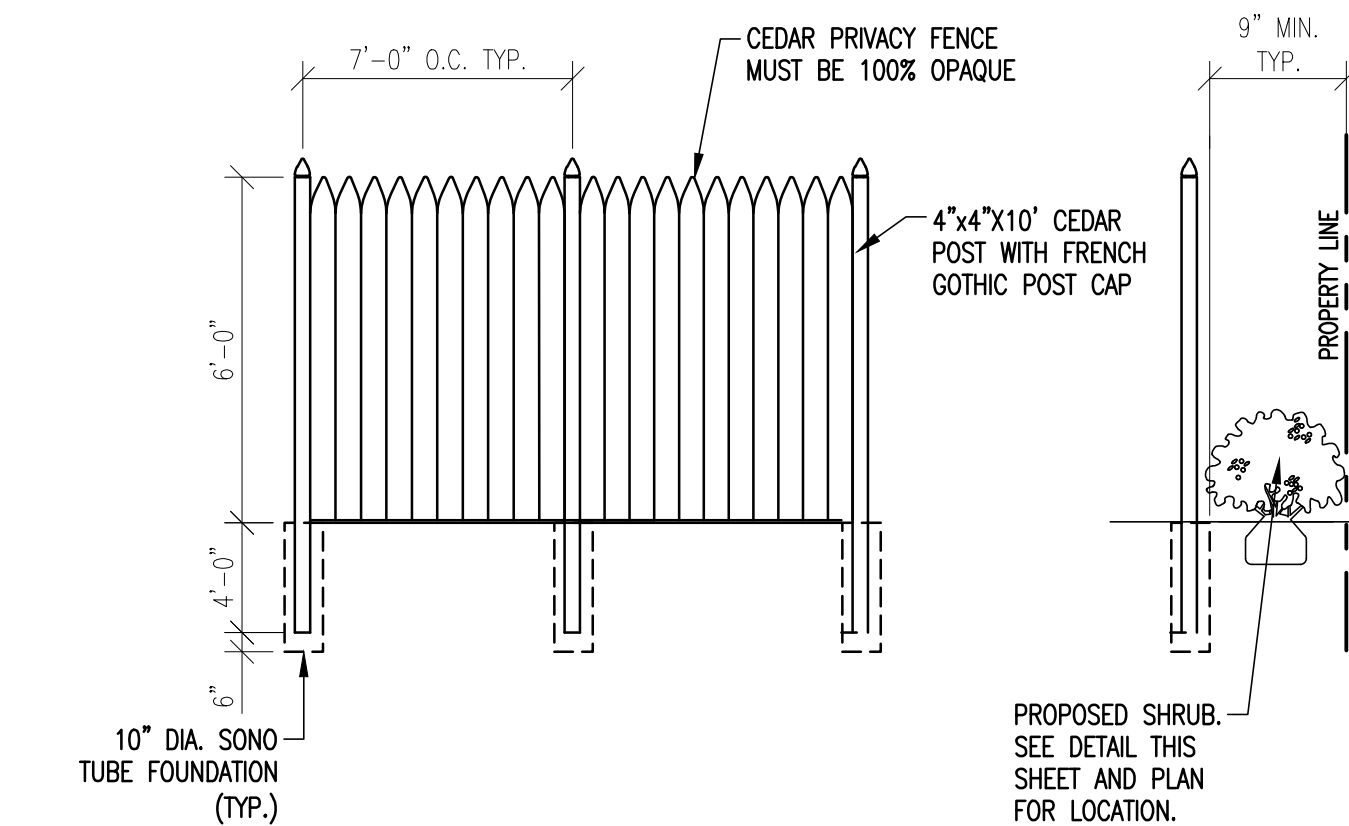
WATER MAIN BELOW SEWER

SEPARATION NOTES:

- WATER MAIN RELATIONS TO SEWER SHALL BE IN ACCORDANCE WITH THE RECOMMENDED STANDARDS FOR WATER WORKS 30-CALLED TEN STATE STANDARDS.
- WATER MAINS SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED SEWERS. THE DISTANCE SHALL BE MEASURED EDGE TO EDGE. IF THIS DISTANCE CANNOT BE OBTAINED, THEN THE PIPES SHALL BE INSTALLED IN A SEPARATE TRENCH AT AN ELEVATION SO THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER.
- WHEN IT IS IMPOSSIBLE TO MAINTAIN 18" VERTICAL SEPARATION OR WHERE THE SEWER MUST BE LAID ABOVE THE WATER MAIN; 1) THE CROSSING SHALL BE ARRANGED SO THAT ONE FULL LENGTH OF SEWER IS CENTERED ABOVE OR BELOW THE WATER LINE WITH SEWER JOINTS AS FAR AS POSSIBLE FROM WATER JOINTS; 2) THE SEWER PIPE MUST BE CONSTRUCTED TO WATER MAIN STANDARDS FOR A MINIMUM DISTANCE OF 20 FEET EITHER SIDE OF THE CROSSING OR A TOTAL OF THREE PIPE LENGTHS, WHICH EVER IS GREATER; 3) THE SECTION CONSTRUCTED TO WATER MAIN STANDARDS MUST BE PRESSURE TESTED TO MAINTAIN 50 psi FOR 15 MINUTES WITHOUT LEAKAGE PRIOR TO BACKFILLING BEYOND ONE FOOT ABOVE THE PIPE TO ASSURE WATER TIGHTNESS.

TYPICAL SEWER/WATER SEPARATION DETAIL

SCALE: NONE



WOOD STOCKADE PRIVACY FENCE DETAIL

SCALE: NONE

WATER NOTES:

WATER MAINS

- PERFORM A HYDROSTATIC AND LEAKAGE TEST ACCORDING TO AWWA C600(LATEST REVISION) ON EACH PIPE LINE.
- THE ENGINEER AND THE ALBANY WATER DEPARTMENT SHALL BE GIVEN AT LEAST 48 HOURS NOTICE BEFORE THE TEST IS CONDUCTED. TEST MUST BE WITNESSED BY THE ENGINEER AND THE ALBANY WATER DEPARTMENT.
- SPECIFIED TEST PRESSURE IS A MINIMUM OF 200 PSI OR 1.5X THE WORKING PRESSURE, WHICHEVER IS GREATER, AND PRESSURE DURING TEST SHALL NOT VARY BY MORE THAN 5 PSI. SEE THE CURRENT EDITION OF AWWA C600 FOR ALLOWABLE LEAKAGE.

EXISTING UTILITIES

- LOCATION OF UTILITY INSTALLATIONS AND UNDERGROUND STRUCTURES ARE SHOWN AS APPROXIMATE ON THE CONTRACT DOCUMENTS SOME UTILITIES MAY NOT BE SHOWN.
- ALL UTILITIES SHALL BE LOCATED BY THE CONTRACTOR PRIOR TO BEGINNING CONSTRUCTION.
- EXISTING UTILITIES SHALL BE PROTECTED AND SUPPORTED DURING CONSTRUCTION.
- ALL WATER, GAS, CABLE, TELEPHONE, ELECTRIC, SEWER, AND OTHER UTILITIES FOUND TO INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE RELOCATED IN A MANNER ACCEPTABLE TO THE ENGINEER.

PIPE BEDDING

- SAND BEDDING SHALL MEET REQUIREMENTS OF EARTHWORK SPECIFICATIONS
- SAND BLANKET SHALL MEET REQUIREMENTS OF EARTHWORK SPECIFICATIONS
- TRENCH FINAL BACKFILL MATERIAL - MATERIAL WILL EXCLUDE PIECES OF PAVEMENT, ORGANIC MATTER, TOPSOIL, ALL WET OR SOFT MUCK, PEAT, CLAY, LARGE ROCKS(GREATER THAN 12" DIMENSION), OR ANY MATERIAL DETERMINED BY THE ENGINEER THAT WILL NOT BE SUITABLE.

PIPE TRENCH BACKFILL

- MEET EARTHWORK SPECIFICATIONS FOR PLACEMENT AND COMPACTION.

DUCTILE IRON PIPE (WATER)

- D.I. PIPE CONFORM TO AWWA/ANSI C151.
- UNINGS AND LINING REPAIR TO AWWA/ANSI C104.
- JOINTS CONFORM TO AWWA/ANSI C 111 AND C115.
- FITTINGS CONFORM TO AWWA/ANSI C110, C153, C105.
- KEEP INSIDE OF PIPE CLEAN AND FREE OF DEBRIS.
- REJECT ANY PIPE WHICH IS DROPPED DURING HANDLING.
- MECHANICAL JOINT GLANDS SHALL BE "MEGA-LUG" RETAINER GLANDS.
- DUCTILE IRON FITTINGS: ANSI A21.10, 350 PSI PRESSURE RATINGS.
- JOINTS: MECHANICAL, PUSH-ON, AND FLANGED:
 - A. RUBBER GASKET JOINT, ANSI A21.11
- GASKETS:
 - A. MECHANICAL AND PUSH-ON JOINTS: ANSI A21.11
 - B. FLANGED JOINT: 3/8" THICK RING OR FULL FACED RUBBER, ANSI A21.15.
- BOLTS/NUTS
 - A. MECHANICAL JOINT: ANSI A21.11
 - B. FLANGED JOINT: ANSI A21.15
- UNINGS:
 - A. INTERIOR- CEMENT LINED, DOUBLE THICKNESS BITUMINOUS SEAL
 - B. EXTERIOR-BITUMINOUS COATING APPROX. 1 MIL THICK, ANSI A21.51, ANSI A21.15, AND ANSI A21.10.
 - C. FLANGE MACHINED FACE COATING: ANSI A21.15.
- LAYING PIPE
 - A. PIPE SHALL BE LAID WITH BELL ENDS FACING IN THE DIRECTION OF LAYING.
 - B. WHERE PIPE IS LAID ON A SLOPE OF 5% OR MORE, THE LAYING SHALL START AT THE LOW END AND PROCEED UPHILL, WITH THE BELL ENDS UPGRADE.
 - C. A WATERTIGHT PLUG SHALL BE PLACED IN THE OPEN ENDS OF INSTALLED PIPE WHEN PIPE LAYING IS NOT IN PROGRESS.
 - D. MAX. PERMISSIBLE DEFLECTION IS 75% OF AWWA SPEC. C600.

CHLORINATION OF DOMESTIC WATER LINES

- THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND THE ALBANY WATER DEPARTMENT AT LEAST 48 HOURS PRIOR OF BEGINNING ANY DISINFECTION OF WATER MAINS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR BACTERIOLOGICAL TESTING AS REQUIRED BY THIS SPECIFICATION AND REFERENCE STANDARDS MENTIONED. THE CONTRACTOR SHALL PROVIDE THE ALBANY WATER DEPARTMENT WITH A COPY OF THE BACTERIOLOGICAL TESTING RESULTS.
- DISINFECT ALL NEW PIPELINE SYSTEMS IN ACCORDANCE WITH AWWA C651, INCLUDING:
 - A. METHOD OF CHLORINE APPLICATION. USE CONTINUOUS FEED METHOD OR SLUG METHOD (TABLET METHOD IS NOT ACCEPTABLE).
 - B. FORM OF CHLORINE UTILIZED.
 - C. FINAL FLUSHING.
 - D. BACTERIOLOGICAL TESTING.
 - E. REPETITION OF PROCEDURE.
- GATE VALVES
 - 1. RESILIENT SEAT GATE VALVES BY KENNEDY "XEN-SEAL" OR EQUAL.
 - 2. IRON BODY GATE VALVES TO MEET AWWA C-509-87.
 - 3. STEM CONSTRUCTION: NON-RISING.
 - 4. STEM SEALS: DOUBLE O-RING.
 - 5. GATE: CAST IRON RESILIENT WEDGE WITH SYNTHETIC ELASTOMER COATING, AND SHALL BE EPOXY COATED (FUSION BONDED) INSIDE AND OUT.
 - 6. BONNET: HARDWARE SHALL MEET ASTM A216, CLASS 15, AND A217, CLASS 9.
 - 7. OUTLET CONNECTION: STANDARD MECHANICAL JOINT.
 - 8. OPERATION: OPEN-RIGHT.
 - 9. BACTERIOLOGICAL TESTING.
 - 10. REPETITION OF PROCEDURE.
- TAPPING VALVES
 - 1. TAPPING VALVES TO MEET ANSI/AWWA C509-87, STANDARD FOR RESILIENT SEATED GATE VALVES.
 - 2. VALVES SHALL HAVE A MINIMUM WORKING PRESSURE OF 150 PSI.
 - 3. VALVES SHALL OPEN-RIGHT.
 - 4. INLET FLANGES SHALL BE CLASS 125, ANSI B16.1, OR ANSI/AWWA C110/A21.10.
 - 5. OUTLET CONNECTION: STANDARDIZED MECHANICAL JOINT.
 - 6. STEM SEALS: O RING.
 - 7. STEM CONSTRUCTION: NON-RISING.
 - 8. SEATING: PARALLEL SEAT.
 - 9. END CONNECTIONS: MECHANICAL ON RUN, FLANGED ON BRANCH.
 - 10. BURIED TAPPING VALVES SHALL BE PROVIDED WITH A 2 INCH SQUARE WRENCH NUT AND CAST IRON VALVE BOX. IF DEPTH FROM GRADE TO TOP OF VALVE OPERATING NUT IS GREATER THAN 6'-0" , A VALVE STEM RISER MADE OF HIGH STRENGTH STEEL SHALL BE PROVIDED. DEPTH FROM VALVE STEM RISER NUT TO GRADE WILL BE 4 TO 6 FEET.
- TAPPING SLEEVES
 - 1. AWWA C509, LATEST REVISION.
 - 2. AWWA C207, CLASS D, MAX. WORKING PRESSURE OF 150 PSI.
 - 3. SLEEVES: SPLIT SLEEVES OF CAST IRON OR DUCTILE IRON.
 - 4. MECHANICAL JOINT ENDS WITH END AND GASKET SEALS.
 - 5. BOLTS AND NUTS, MECHANICAL JOINTS: HIGH STRENGTH CAST IRON OR HIGH STRENGTH LOW ALLOY STEEL, ANSI/AWWA C111/A21.11-90.
 - 6. BOLTS AND NUTS, FLANGED JOINTS: HIGH STRENGTH, LOW CARBON STEEL CONFORMING TO ANSI/AWWA C110/A21.10-87, APPENDIX.
 - 7. COAT ALL NUTS AND BOLTS WITH A RUST RESISTANT LUBRICANT.
 - 8. ALL BOLTS AND NUTS USED WITH PIPE SLEEVES SHALL BE BRUSH COATED HEAVILY AFTER FINAL TIGHTENING WITH BITUMASTIC COLD-APPLIED MATERIAL TO THOROUGHLY COVER ALL EXPOSED SURFACES OF BOLTS AND NUTS.

CONCRETE

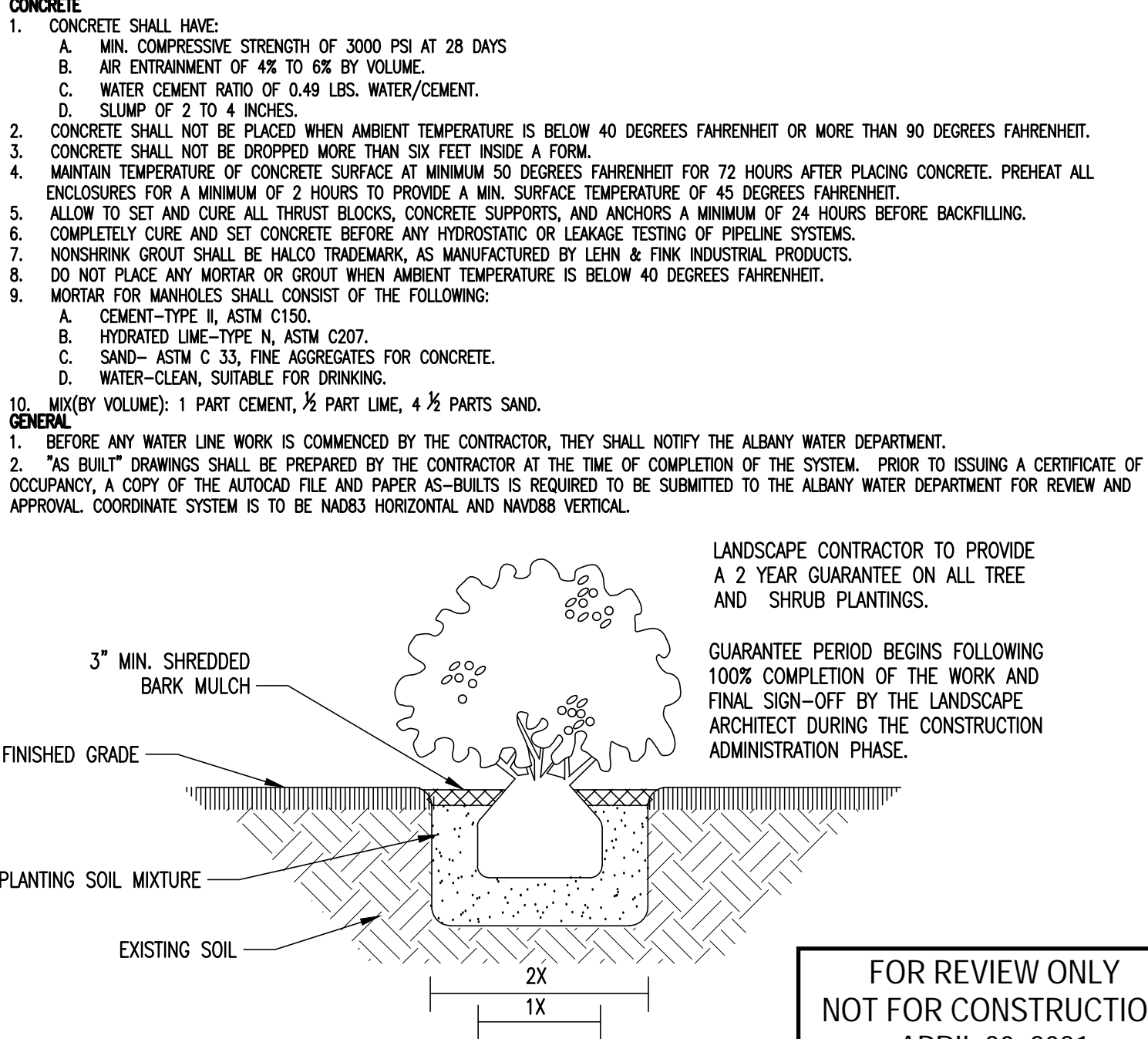
- CONCRETE SHALL HAVE:
 - A. MIN. COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS
 - B. AIR ENTRAINMENT OF 4% TO 6% BY VOLUME.
 - C. WATER CEMENT RATIO OF 0.49 LBS. WATER/CEMENT.
 - D. SLUMP OF 2 TO 4 INCHES.
- CONCRETE SHALL NOT BE PLACED WHEN AMBIENT TEMPERATURE IS BELOW 40 DEGREES FAHRENHEIT OR MORE THAN 90 DEGREES FAHRENHEIT.
- CONCRETE SHALL NOT BE DROPPED MORE THAN SIX FEET INSIDE A FORM.
- MAINTAIN TEMPERATURE OF CONCRETE SURFACE AT MINIMUM 50 DEGREES FAHRENHEIT FOR 72 HOURS AFTER PLACING CONCRETE. PREHEAT ALL ENCLOSURES FOR A MINIMUM OF 2 HOURS TO PROVIDE A MIN. SURFACE TEMPERATURE OF 45 DEGREES FAHRENHEIT.
- ALLOW TO SET AND CURE ALL THRUST BLOCKS, CONCRETE SUPPORTS, AND ANCHORS A MINIMUM OF 24 HOURS BEFORE BACKFILLING.
- COMPLETELY CURE AND SET CONCRETE BEFORE ANY HYDROSTATIC OR LEAKAGE TESTING OF PIPELINE SYSTEMS.
- NONSHRINKING GROUT SHALL BE HALCO TRADEMARK, AS MANUFACTURED BY LEHN & FINK INDUSTRIAL PRODUCTS.
- DO NOT PLACE ANY MORTAR OR GROUT WHEN AMBIENT TEMPERATURE IS BELOW 40 DEGREES FAHRENHEIT.
- MORTAR FOR MANHOLES SHALL CONSIST OF THE FOLLOWING:
 - A. CEMENT-TYPE I, ASTM C150.
 - B. HYDRATED LIME-TYPE N, ASTM C207.
 - C. SAND- ASTM C 33, FINE AGGREGATES FOR CONCRETE.
 - D. WATER-CLEAN, SUITABLE FOR DRINKING.
- MIX(BY VOLUME): 1 PART CEMENT, 1/2 PART LIME, 4 1/2 PARTS SAND.

GENERAL

- BEFORE ANY WATER LINE WORK IS COMMENCED BY THE CONTRACTOR, THEY SHALL NOTIFY THE ALBANY WATER DEPARTMENT.
- "AS BUILT" DRAWINGS SHALL BE PREPARED BY THE CONTRACTOR AT THE TIME OF COMPLETION OF THE SYSTEM. PRIOR TO ISSUING A CERTIFICATE OF OCCUPANCY, A COPY OF THE AUTOCAD FILE AND PAPER AS-BUILTS IS REQUIRED TO BE SUBMITTED TO THE ALBANY WATER DEPARTMENT FOR REVIEW AND APPROVAL. COORDINATE SYSTEM IS TO BE NAD83 HORIZONTAL AND NAVD88 VERTICAL.

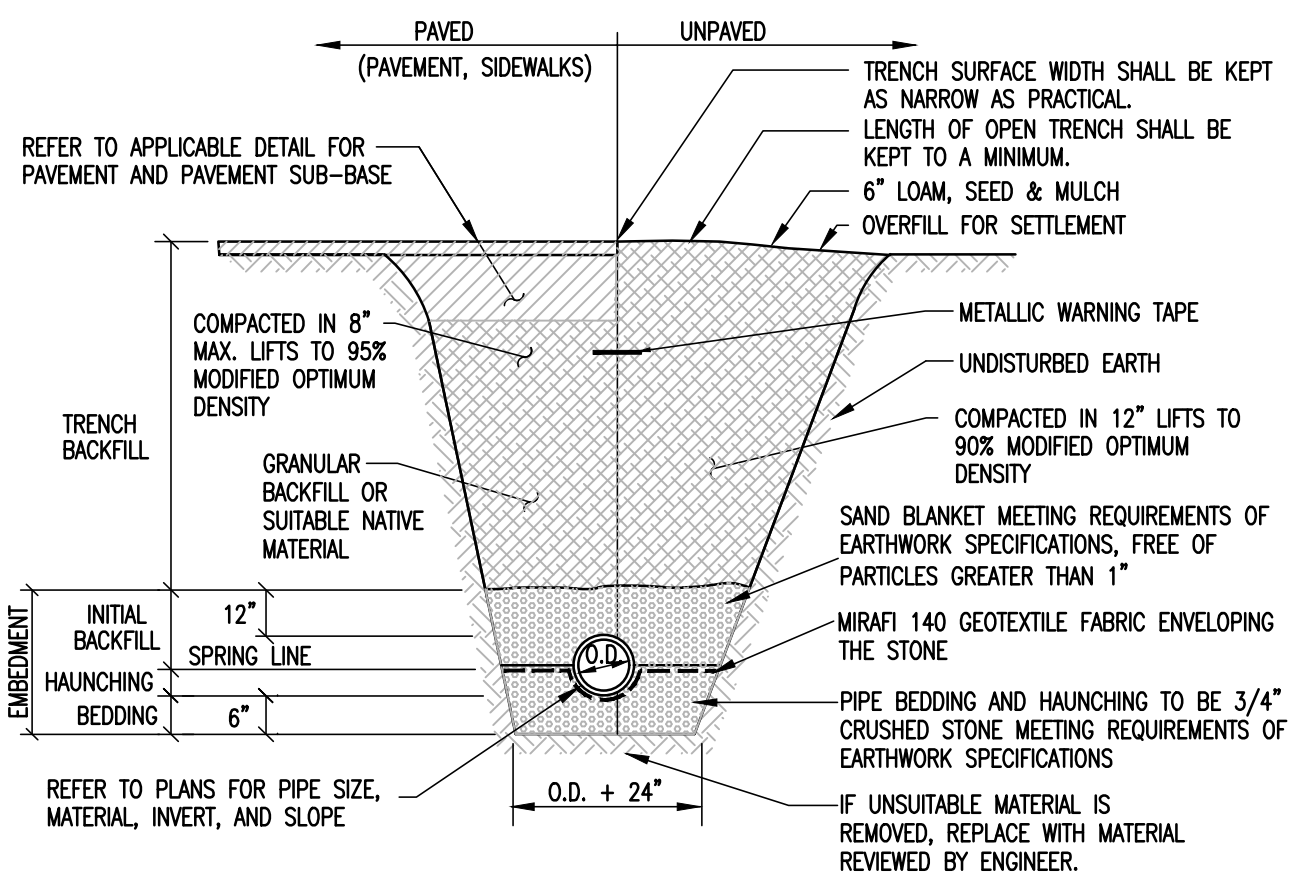
LANDSCAPE

- LANDSCAPE CONTRACTOR TO PROVIDE A 2 YEAR GUARANTEE ON ALL TREE AND SHRUB PLANTINGS.
- GUARANTEE PERIOD BEGINS FOLLOWING 100% COMPLETION OF THE WORK AND FINAL SIGN-OFF BY THE LANDSCAPE ARCHITECT DURING THE CONSTRUCTION ADMINISTRATION PHASE.

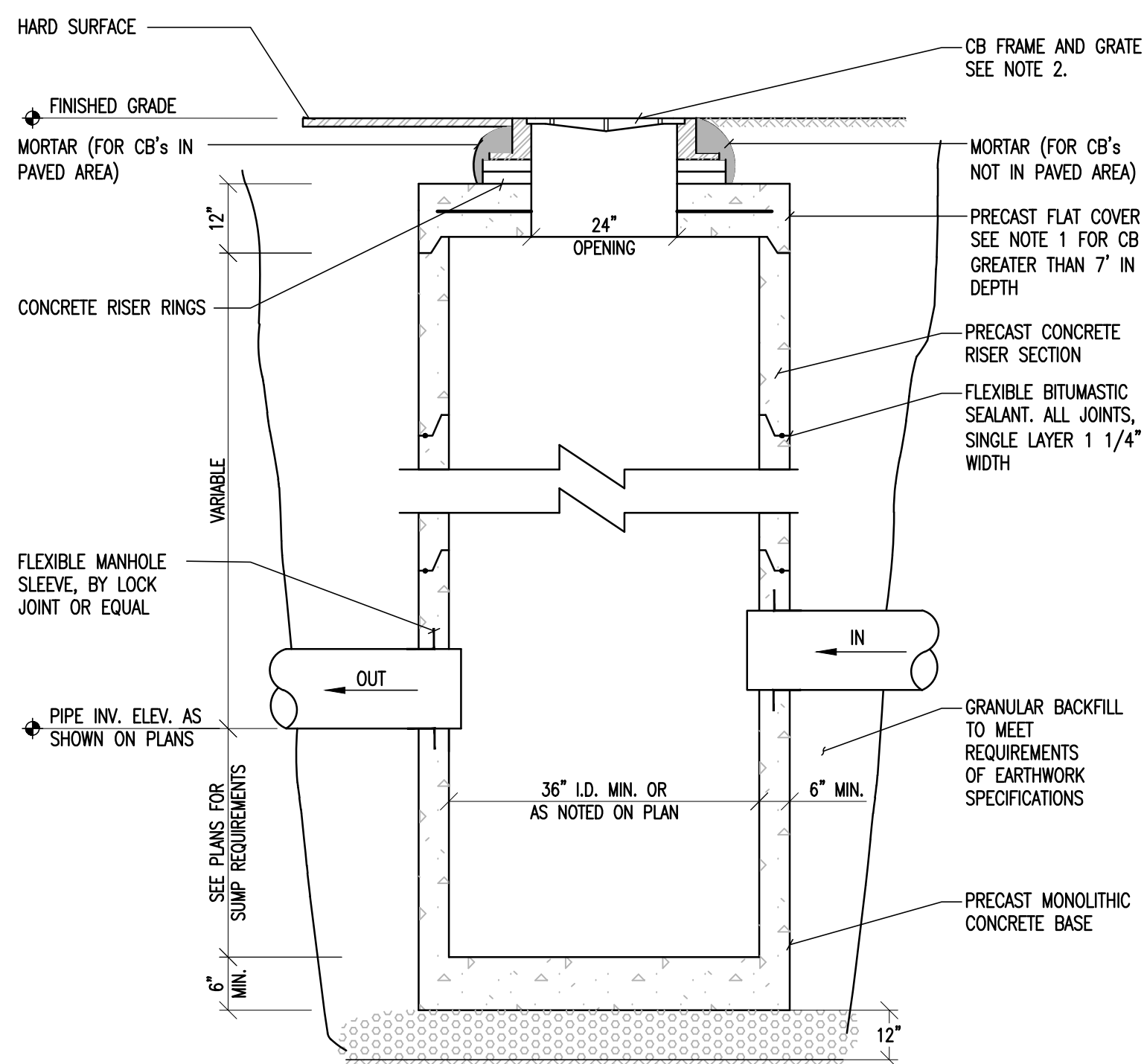


SHRUB PLANTING DETAIL

SCALE: NONE



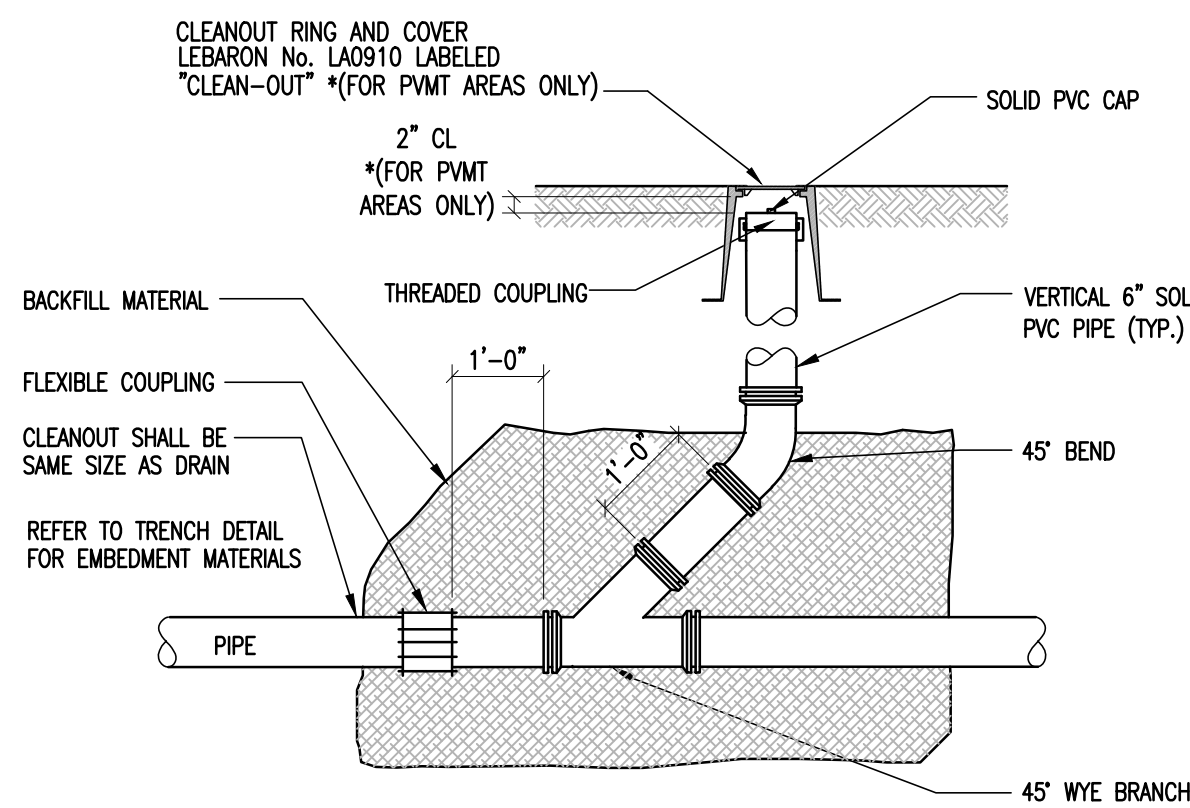
- TYPICAL STORM DRAIN TRENCH DETAIL**
- SCALE: NONE
- 1
1. UNLESS OTHERWISE NOTED, ASSUME CLASS "A" SOILS. PERFORM ALL EXCAVATIONS TO OSHA REQUIREMENTS.
2. BEDDING TO PROVIDE A FIRM, STABLE, CONTINUOUS AND UNIFORM SUPPORT FOR THE FULL LENGTH OF PIPE.
3. WHEN APPLICABLE, INSTALL PIPE WITH BELL ENDS DOWN SLOPE. PREVENT SEDIMENT FROM ENTERING NEW STORM DRAIN SYSTEM DURING CONSTRUCTION.
4. NO MECHANICAL TAMPERS SHALL BE USED DIRECTLY OVER PIPE TO INSURE PIPE IS NOT DAMAGED.
5. REFER TO INSULATION DETAIL FOR AREAS WHERE PROPER COVER CAN NOT BE ACHIEVED.



- CATCH BASIN NOTES**
1. IF DEPTH OF CATCH BASIN IS 7 FEET OR LESS FROM RIM TO CENTERLINE INVERT THEN A FLAT TOP WILL BE INSTALLED. IF DEPTH OF CATCH BASIN FROM RIM TO CENTERLINE INVERT IS MORE THAN 7 FEET THEN A CONICAL TOP WILL BE INSTALLED.
2. PROVIDE A LEBARON 24"x24" TYPE E OR APPROVED EQUIVALENT, 3 FLANGE GRATE AND FRAME NEXT TO CURBS AND 4 FLANGE GRATE AND FRAME AT ALL OTHER LOCATIONS.
3. CATCH BASIN AND GRATE SHALL BE DESIGNED FOR H2O LOADING.
4. CATCH BASIN SHALL BE PRECAST CONCRETE AS MANUFACTURED BY CAMP PRECAST, SD IRELAND OR APPROVED EQUIVALENT.

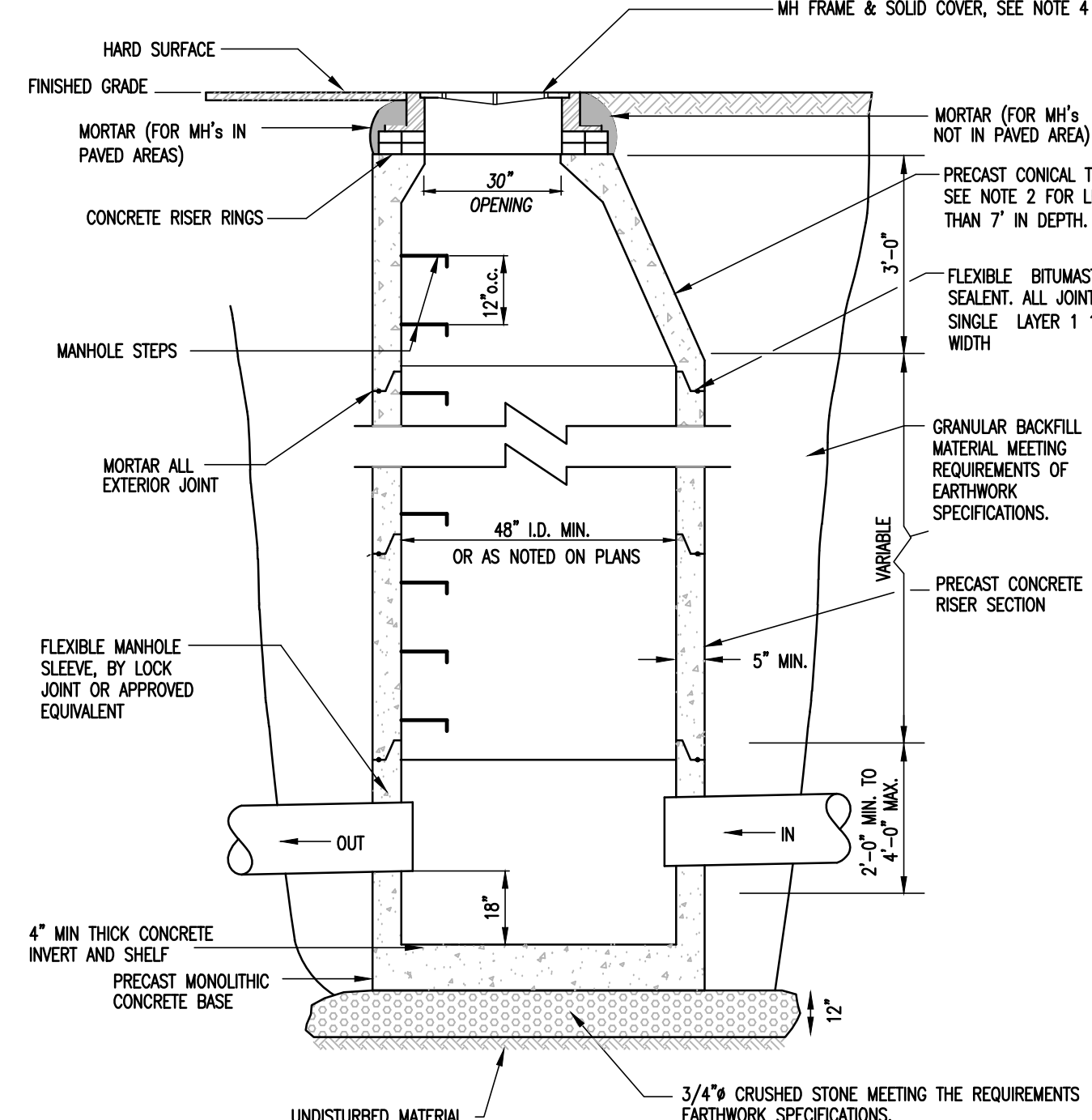
CATCH BASIN DETAIL

SCALE: NONE



CLEANOUT DETAIL

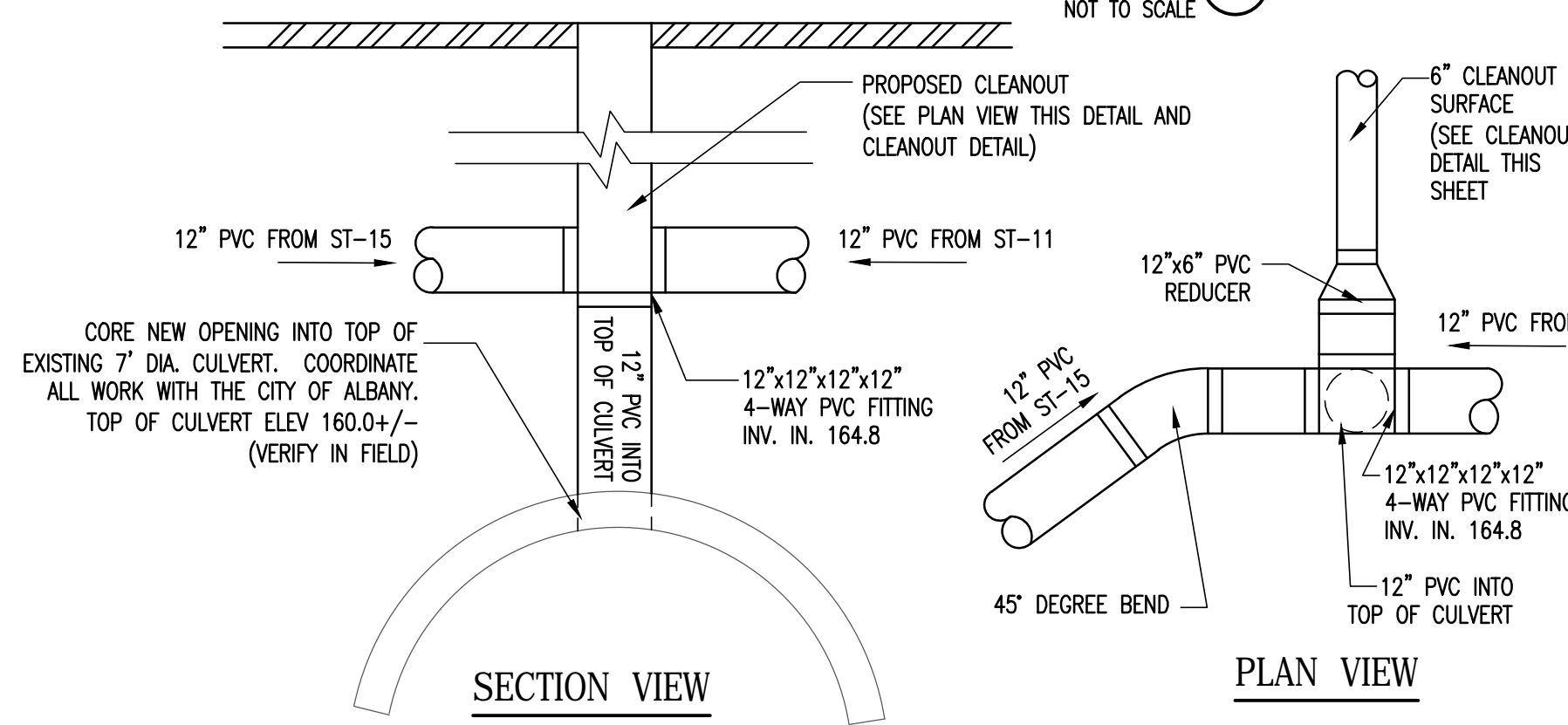
SCALE: NONE



- STORM MANHOLE NOTES**
1. PROVIDE SMOOTH SWEEPING TRANSITIONS BETWEEN INVERTS OF INTERSECTING PIPE.
2. IF DEPTH OF MANHOLE IS 7 ft. OR LESS FROM RIM TO CENTERLINE INVERT, THEN A FLAT TOP WILL BE INSTALLED. IF DEPTH OF MANHOLE FROM RIM TO CENTERLINE INVERT IS MORE THAN 7 ft., THEN A CONICAL TOP WILL BE INSTALLED.
3. MANHOLE AND COVER SHALL BE DESIGNED FOR H2O LOADING.
4. PROVIDE A NEENAH FOUNDRY R-1564 OR APPROVED EQUIVALENT, CAST THE WORD "STORM" IN TOP COVER
5. MANHOLE SHALL BE PRECAST CONCRETE SUPPLIED BY AN APPROVED MANUFACTURER.

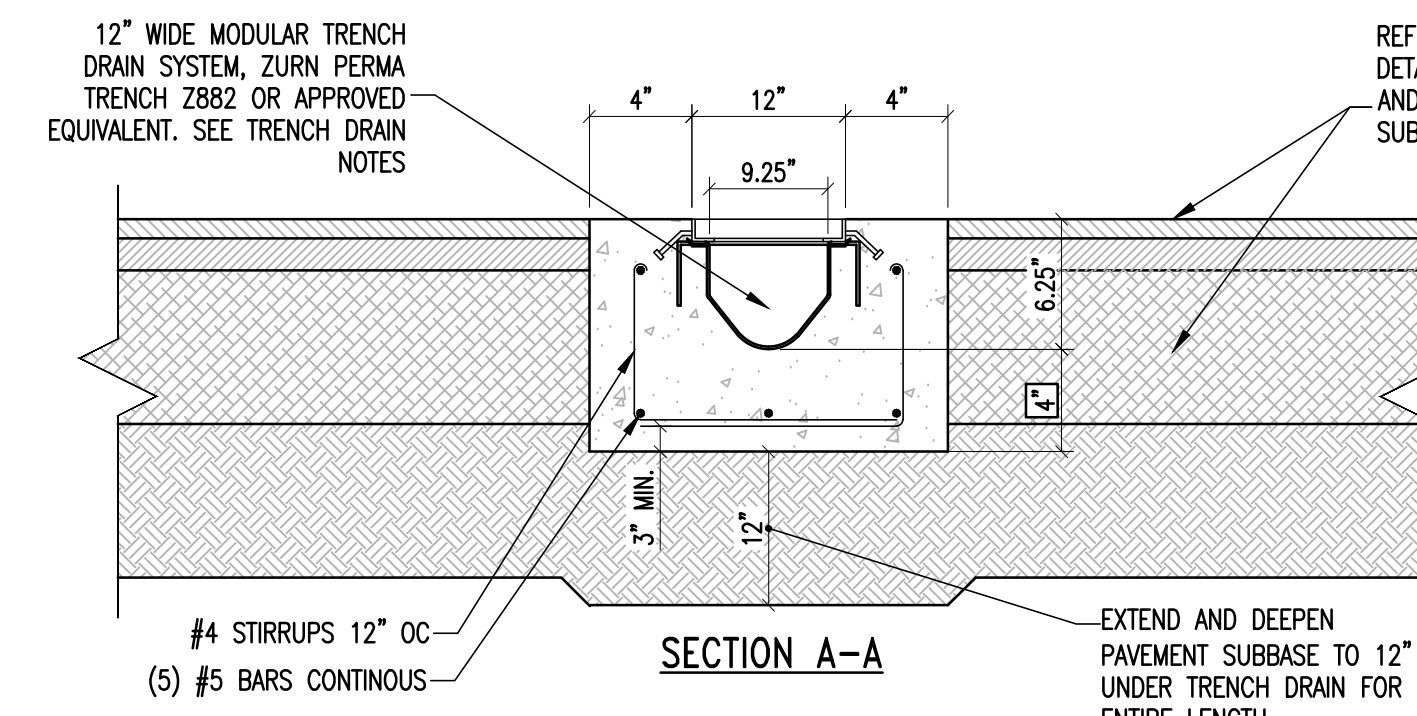
MANHOLE DETAIL

NOT TO SCALE



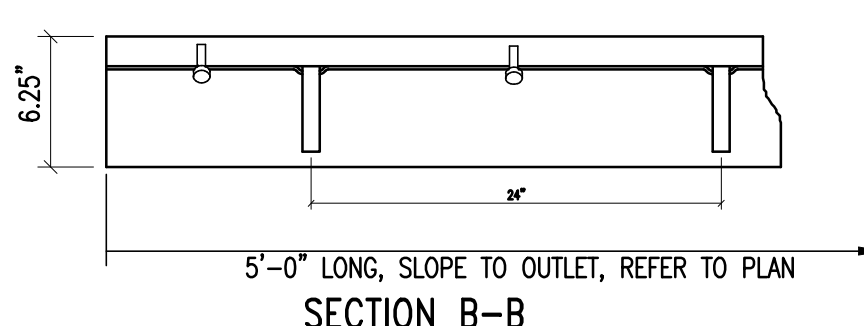
ST- 10 DETAIL

SCALE: NONE



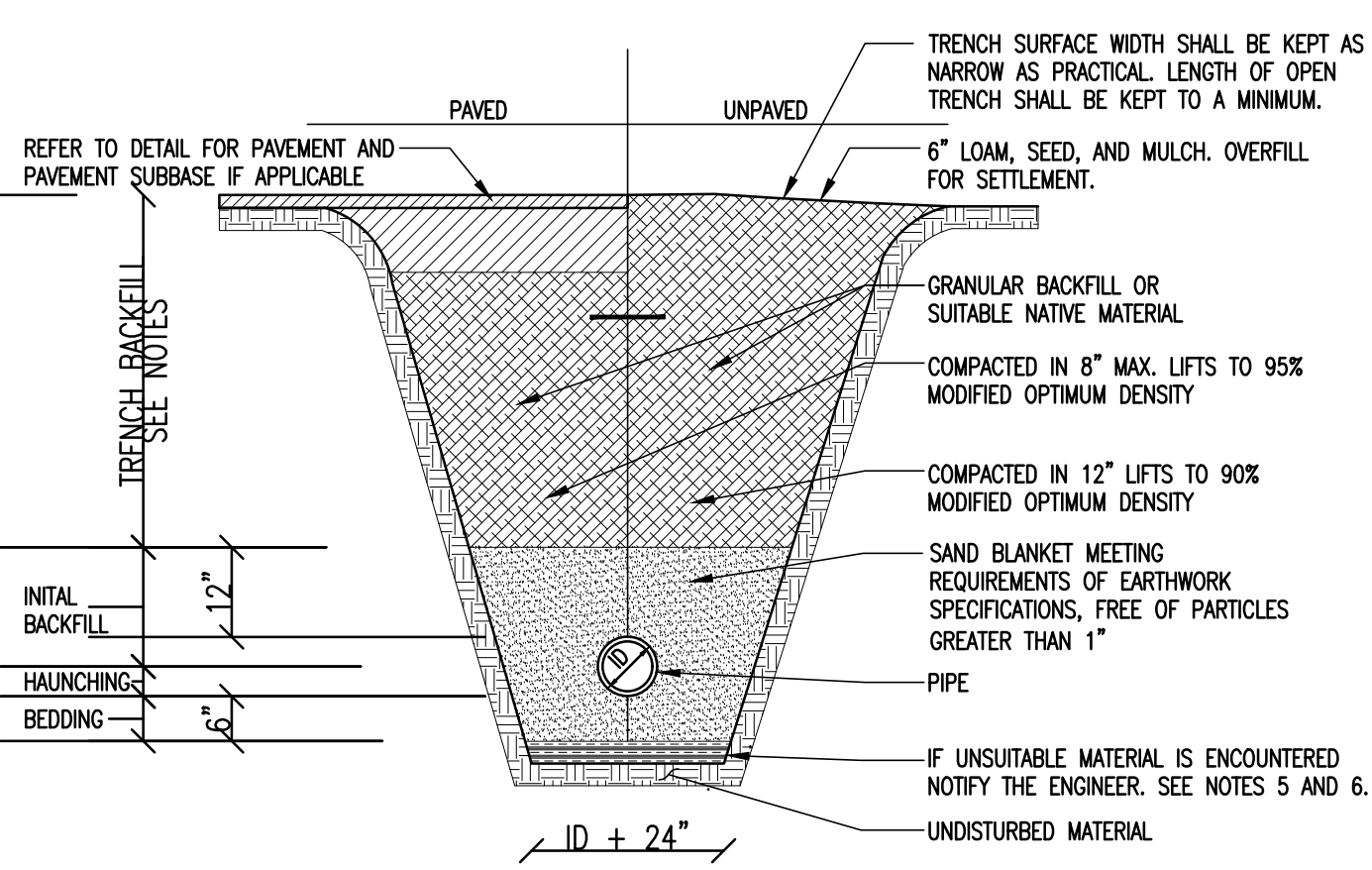
TRENCH DRAIN NOTES:

1. TRENCH DRAIN SHALL BE MODULAR, CAST IN PLACE, 12" WIDE ZURN PERMA TRENCH Z882 OR APPROVED EQUIVALENT. INSTALL TRENCH DRAIN SYSTEM IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
2. CHANNEL SHALL BE 5' LONG, 12" WIDE AND HAVE A 9-1/4" THROAT. MODULAR CHANNEL SECTION SHALL BE MADE OF HDPE, HAVE INTERLOCKING ENDS, AND RADIUS BOTTOM. CHANNEL SHALL BE FLAT (NEUTRAL) LAID AT THE SLOPE SHOWN ON THE PLANS.
3. GRATES SHALL BE HEEL-PROOF WITH MECHANICAL LOCKDOWN DEVICES. END CAPS SHALL BE AVAILABLE TO COMPLEMENT THE CHANNEL AND GRATES.
4. TRENCH DRAIN SHALL BE CONNECTED THROUGH THE BOTTOM OF THE DRAIN AT THE INVERT SHOWN ON THE PLAN.
5. CAST IN PLACE CONCRETE TO BE 4000 PSI CONCRETE, 5%-7% AIR ENTRAINMENT WITH REINFORCING AS SHOWN.



TRENCH DRAIN DETAIL

SCALE: NONE



SANITARY SEWER TRENCH NOTES:

1. UNLESS OTHERWISE NOTED, ASSUME CLASS "C" SOILS. PERFORM ALL EXCAVATIONS TO OSHA REQUIREMENTS.
2. BEDDING TO PROVIDE A FIRM, STABLE, CONTINUOUS AND UNIFORM SUPPORT FOR FULL LENGTH OF PIPE.
3. FOR BUILDING SEWERS THE MINIMUM DEPTH TO THE TOP OF THE PIPE SHALL BE 4'-0" WHERE BUILDING SEWERS ARE TO BE INSTALLED AT A DEPTH LESS THAN 3'-0" UNDER DRIVEWAYS, EXTRA HEAVY CAST IRON OR OTHER HIGH STRENGTH PIPE SHALL BE USED. OTHERWISE, REFER TO INSULATION OVER SHALLOW SEWER LINE DETAIL.
4. FOR SEWER COLLECTION SYSTEMS THE MINIMUM DEPTH TO THE TOP OF THE PIPE SHALL BE 6'-0". OTHERWISE, REFER TO INSULATION OVER SHALLOW SEWER LINE DETAIL.
5. BACKFILL SHALL BE OF A SUITABLE MATERIAL REMOVED FROM EXCAVATION EXCEPT WHERE OTHER MATERIAL IS SPECIFIED. DEBRIS, FROZEN MATERIAL, LARGE CLODS OR STONES, ORGANIC MATTER, OR OTHER UNSTABLE MATERIALS SHALL NOT BE USED FOR BACKFILL WITHIN TWO FEET OF THE TOP OF THE PIPE.
6. LEDGE, ROCK, BOULDERS AND LARGE STONES SHALL BE REMOVED TO PROVIDE A MINIMUM CLEARANCE OF FOUR INCHES BELOW AND ON EACH SIDE OF ALL PIPES.

SANITARY SEWER TRENCH

NOT TO SCALE

SITE/EARTHWORK SPECIFICATIONS

1. PRIOR TO THE START OF THE WORK, A PRE-CONSTRUCTION MEETING WILL BE HELD WITH THE CONTRACTOR, OWNER, AND PROJECT ENGINEER TO REVIEW PROCEDURES, AND IDENTIFY RESPONSIBILITIES. UNLESS STATED OTHERWISE, ALL MATERIALS AND METHODS SHALL BE IN ACCORDANCE WITH THE MOST RECENT VERSION OF THE NEW YORK STATE STANDARD SPECIFICATIONS.
2. CLEARING AND GRUBBING - ALL TOPSOIL AND UNSUITABLE MATERIALS SHALL BE REMOVED FROM IMPACTED AREAS.
3. COMPACTION SHALL BE PERFORMED USING VIBRATORY ROLLERS AND WATER IN LIFTS OF NO GREATER THAN SIX INCHES. COMPACTION SHALL BE PERFORMED UNTIL THE REQUIRED DENSITY IS ACHIEVED. DENSITY SHALL BE DETERMINED BY ASTM D2938 METHOD AND SHALL NOT BE LESS THAN 95 PERCENT OF THE MAXIMUM DENSITY FOR PAVED AREAS AND 90 PERCENT OF THE MAXIMUM DENSITY FOR NON PAVED AREAS DETERMINED IN ACCORDANCE WITH ASTM D1557.
4. COMPACTION TESTING SHALL BE PERFORMED FOR EVERY LAYER OF MATERIAL PLACED AND FOR EVERY 1000 SQUARE FEET OF AREA.
5. ALL REMAINING DISTURBED AREAS WITHIN THE RIGHT OF WAY SHALL BE FLATTED AND SEEDED IN ACCORDANCE WITH THE NEW YORK STATE SPECIFICATIONS.
6. THE SEEDING OF SLOPES OF 3:1 AND GREATER AND DITCHES SHALL REQUIRE THE USE OF EROSION CONTROL MATTING.
7. COST OF INITIAL INSPECTION AND TESTING SHALL BE PAID BY THE OWNER. SUBSEQUENT TESTING OF MATERIALS NOT PASSING INITIAL INSPECTION, SHALL BE PAID BY THE CONTRACTOR.
8. ALL EARTHWORK MATERIALS SHALL BE OBTAINED FROM APPROVED SOURCES. THEY SHALL CONSIST OF SATISFACTORILY GRADED, FREE DRAINING MATERIAL, REASONABLY FREE FROM LOAM, SILT, CLAY AND ORGANIC MATERIAL. EARTHWORK MATERIALS SHALL MEET THE REQUIREMENTS OF THE FOLLOWING TABLES:

A. SAND BLANKET/BEDDING:	SIEVE DESIGNATION	PERCENT BY WEIGHT PASSING SQUARE MESH SIEVES
	2 INCHES	100
B. FINE CRUSHED GRAVEL (NYSDOT SECTION 733-04, TYPE 2):	SIEVE DESIGNATION	PERCENT BY WEIGHT PASSING SQUARE MESH SIEVES
	2 INCHES	100
C. GRANULAR BACKFILL (COARSE CRUSHED GRAVEL):	SIEVE DESIGNATION	PERCENT BY WEIGHT PASSING SQUARE MESH SIEVES
	4 INCHES	100
D. #2 STONE:	SIEVE DESIGNATION	PERCENT BY WEIGHT PASSING SQUARE MESH SIEVES
	1 1/2 INCHES	100
E. TOPSOIL:	SIEVE DESIGNATION	PERCENT BY WEIGHT PASSING SQUARE MESH SIEVES
	1 1/2 INCHES	100
GENERAL QUALIFICATIONS:	SIEVE DESIGNATION	PERCENT BY WEIGHT PASSING SQUARE MESH SIEVES
	1 1/2 INCHES	100
IMPORTED TOPSOIL:	SIEVE DESIGNATION	PERCENT BY WEIGHT PASSING SQUARE MESH SIEVES
	1 1/2 INCHES	100
VERIFICATION:	SIEVE DESIGNATION	PERCENT BY WEIGHT PASSING SQUARE MESH SIEVES
	1 1/2 INCHES	100
ANALYSIS:	SIEVE DESIGNATION	PERCENT BY WEIGHT PASSING SQUARE MESH SIEVES
	1 1/2 INCHES	100
ACCEPTANCE:	SIEVE DESIGNATION	PERCENT BY WEIGHT PASSING SQUARE MESH SIEVES
	1 1/2 INCHES	100
SAMPLES:	SIEVE DESIGNATION	PERCENT BY WEIGHT PASSING SQUARE MESH SIEVES
	1 1/2 INCHES	100
REJECTED TOPSOIL:	SIEVE DESIGNATION	PERCENT BY WEIGHT PASSING SQUARE MESH SIEVES
	1 1/2 INCHES	100
STOCKPILING:	SIEVE DESIGNATION	PERCENT BY WEIGHT PASSING SQUARE MESH SIEVES
	1 1/2 INCHES	100

SEWER NOTES

A-01. BUILDING SEWERS

- A. MATERIALS: THE BUILDING SEWER SHALL BE CONSTRUCTED IN A MANNER WHICH WILL PREVENT LEAKING, BREAKING OR CLOGGING. ACCEPTABLE MATERIALS FOR THE SEWER ARE RUBBER-RING-JOINTED PVC GRAVITY SEWER PIPE, SD3035 ASTM D3034.
- B. SIZING AND SLOPE: MINIMUM BUILDING SEWER SIZE IS 4 INCHES (UNLESS SHOWN ON THE PLAN) AND A MINIMUM SLOPE IS 1/4 INCH PER FOOT.
- C. MANHOLES: BUILDING SEWERS DISCHARGING TO A COLLECTION SEWER SHALL BE CONNECTED THROUGH A MANHOLE OR WITH A WYE FITTING SO AS TO DIRECT FLOW AND MINIMIZE IN-LINE TURBULENCE.
- D. CLEANOUTS: CLEANOUTS SHALL BE PROVIDED AT EACH HORIZONTAL CHANGE IN DIRECTION OF THE BUILDING SEWER GREATER THAN 45 DEGREES, NOT GREATER THAN EVERY 100' AND WHERE INDICATED ON THE DRAWINGS. BUILDING SEWER CHANGES IN DIRECTION WHICH EXCEED 45 DEGREES SHOULD BE MADE WITH TWO 45 DEGREE ELBS OR LONG SWEEP FITTINGS. MANHOLES ARE ACCEPTABLE IN LIEU OF CLEANOUTS. WHERE BUILDING SEWERS ARE TO BE INSTALLED AT A DEPTH OF LESS THAN 3 FEET UNDER DRIVEWAYS ARE ANTICIPATED, EXTRA HEAVY CAST IRON PIPE SHALL BE USED.
- E. LEAKAGE: BUILDING SEWERS SHALL MEET THE LEAKAGE STANDARDS PRESCRIBED IN THE STATE OF NEW YORK SPECIFICATIONS. SEE "A-02, J" BELOW FOR MORE DETAIL.

A-02. SEWER COLLECTION SYSTEMS:

- A. A SEWER COLLECTION SYSTEM IS THAT SYSTEM OF SEWERS THAT TRANSPORT WASTEWATER FROM BUILDING SEWERS TO THE WASTEWATER TREATMENT/DISPOSAL SYSTEM.
- B. NO CONNECTIONS OF ROOF DRAINS, AREA DRAINS, FOUNDATION DRAINS, CELLAR DRAINS OR OTHER CLEAN WATER SOURCES OR ANY STORM DRAINS WILL BE ALLOWED TO BUILDING OR COLLECTION SEWERS.
- C. THE SIZE OF COLLECTION SEWERS SHALL BE AS SHOWN ON THESE DRAWINGS.
- D. DEPTH: SEWERS SHALL BE SUFFICIENTLY DEEP TO PREVENT FREEZING. RIGID FOAM INSULATION SHALL BE USED, WHERE INDICATED ON DRAWINGS.
- E. SLOPE, VELOCITY: ALL SEWERS SHALL BE INSTALLED WITH NOT LESS THAN THE SLOPES SHOWN BELOW:

PIPE SIZE (INCHES)	SLOPE (FEET/100 FEET)
6"	0.03
8"	0.40

- F. CHANGES IN PIPE SIZE: WHEN A SMALLER SEWER JOINS A LARGE ONE, THE INVERT OF THE LARGER SEWER SHALL BE LOWERED SUFFICIENTLY TO MAINTAIN THE SAME ENERGY GRADIENT.
- G. MATERIAL: PVC SDR 35, ASTM D3034, WITH PUSH-ON GASKETED JOINTS. GASKETS SHALL CONFORM TO ASTM D3212. SEWER JOINTS SHALL BE CONSTRUCTED TO MINIMIZE INFILTRATION AND TO PREVENT THE ENTRANCE OF ROOTS INTO THE SYSTEM.
- H. TRENCHING: LEDGE, ROCK, BOULDERS AND LARGE STONES SHALL BE REMOVED TO PROVIDE A MINIMUM CLEARANCE OF FOUR INCHES BELOW AND ON EACH SIDE OF ALL PIPES.
- I. BEDDING: SEE TRENCH DETAILS THIS DRAWING FOR MATERIALS. TRENCH BACKFILL SHALL BE OF A SUITABLE NATIVE MATERIAL, FREE FROM DEBRIS, FROZEN MATERIAL, LARGE CLODS OR STONES, ORGANIC MATTER, OR OTHER UNSTABLE MATERIALS.
- J. LEAKAGE TESTS: UPON COMPLETION OF SEWER MAIN CONSTRUCTION, THE SEWER LINE SHALL BE TESTED IN ACCORDANCE WITH THE STATE OF NEW YORK SPECIFICATIONS.

LEAKAGE TESTS FOR GRAVITY SEWERS

PERFORM A PRESSURIZED AIR TEST ON THE GRAVITY LINE IN ACCORDANCE WITH THE LATEST VERSION OF DESIGN STANDARDS FOR WASTEWATER TREATMENT WORKS ON EACH SECTION OF THE GRAVITY SEWER. THE ENGINEER SHALL BE GIVEN 24 HOURS NOTICE BEFORE THE TEST IS CONDUCTED. TEST MUST BE WITNESSED BY THE ENGINEER.

PLUG ALL OPENINGS IN THE TEST SECTION. ADD AIR UNTIL THE INTERNAL PRESSURE OF THE LINE IS RAISED TO APPROXIMATELY 4.0 POUNDS/SQUARE INCH (PSI) GREATER THAN THE AVERAGE PRESSURE OF ANY GROUND WATER. AFTER THIS PRESSURE IS REACHED, ALLOW THE PRESSURE TO STABILIZE. THE PRESSURE WILL NORMALLY DROP AS THE AIR TEMPERATURE STABILIZES. THIS USUALLY TAKES 2 TO 5 MINUTES DEPENDING ON THE PIPE SIZE. THE PRESSURE MAY BE REDUCED TO 3.5 PSI BEFORE STARTING THE TEST.

START THE TEST WHEN THE PRESSURE HAS STABILIZED AND IS AT OR ABOVE THE STARTING TEST PRESSURE OF 3.5 PSI ABOVE THE PIPE. IF THE PRESSURE DROPS MORE THAN 1.0 PSI DURING THE TEST TIME, THE LINE IS PRESUMED TO HAVE FAILED THE TEST. IF A 1.0 PSI DROP DOES NOT OCCUR WITHIN THE TEST TIME, THE LINE HAS PASSED THE TEST. THE TEST TIME SHALL BE DERIVED FROM THE FOLLOWING TABLE: IF THE SECTION OF LINE TO BE TESTED INCLUDES MORE THAN ONE PIPE SIZE, CALCULATE THE TEST TIME FOR EACH SIZE AND ADD THE TEST TIMES TO ARRIVE AT THE TOTAL TEST TIME FOR THE SECTION.

PIPE SIZE (INCHES)	T (TIME) (MIN/100 FT.)
3	0.3
4	0.3
6	0.7
8	1.2
10	1.5
12	1.8

K. INSTALLATION: PIPE SHALL BE LAID WITH BELL ENDS FACING UPGRADE AND LAYING SHALL START AT THE DOWNGRADE END.

L. WATER LINE SEPARATION

- a. HORIZONTAL SEPARATION: SEWERS SHALL BE LAID FLAT AT LEAST TEN FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED WATER LINE. THE DISTANCE SHALL BE MEASURED EDGE TO EDGE. WHERE IMPOSSIBLE OR IMPRACTICABLE, DUE TO LEDGE, BOULDERS OR OTHER UNUSUAL CONDITIONS, TO MAINTAIN THE TEN FOOT SEWER/WATER PIPE. HORIZONTAL SEPARATION BETWEEN SEWER AND WATER LINES, THE WATER LINE MAY BE IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELF IN THE SEWER TRENCH PROVIDED THAT THE BOTTOM OF THE WATER LINE IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER. WHEREVER IMPOSSIBLE OR IMPRACTICAL TO MAINTAIN THE 18 INCH VERTICAL SEPARATION, THE SEWER LINE SHALL BE CONSTRUCTED TO NORMAL WATER LINE STANDARDS AND PRESSURE TESTED TO 50 PSI FOR 15 MINUTE PRIOR TO BACKFILLING. NO LEAKAGE SHALL BE ALLOWED FOR THIS TEST.

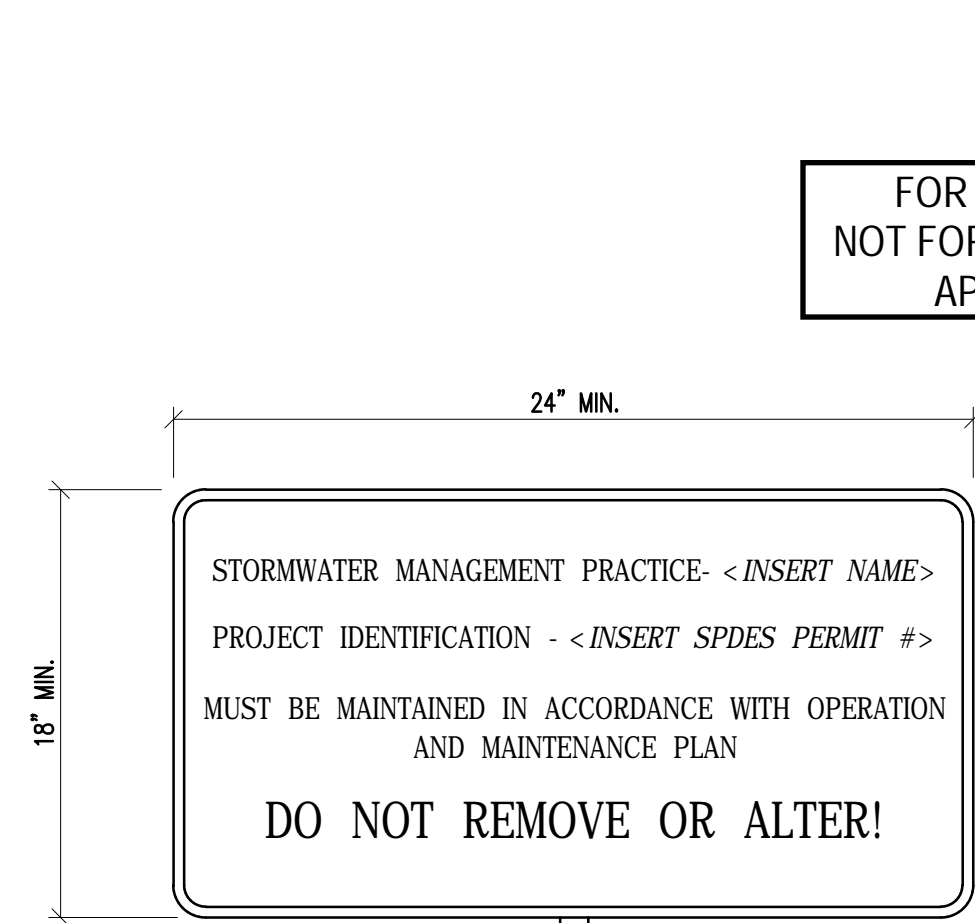
- b. CROSSINGS: SEWERS CROSSING WATER MAINS SHALL BE LAID BENEATH THE WATER MAIN WITH AT LEAST 18 INCHES VERTICAL CLEARANCE BETWEEN THE OUTSIDE OF THE SEWER AND THE OUTSIDE OF THE WATER MAIN. WHEN IT IS IMPOSSIBLE TO MAINTAIN THE 18 INCH VERTICAL SEPARATION:
1. THE CROSSING SHALL BE ARRANGED SO THAT ONE FULL LENGTH OF SEWER IS CENTERED ABOVE OR BELOW THE WATER LINE WITH SEWER JOINTS AS FAR AWAY AS POSSIBLE FROM WATER JOINTS.
 2. THE SEWER PIPE MUST BE CONSTRUCTED TO WATER MAIN STANDARDS FOR A MINIMUM DISTANCE OF 20 FEET EITHER SIDE OF THE CROSSING OR A TOTAL OF THREE PIPE LENGTHS, WHICHEVER IS GREATER.
 3. THE SECTION CONSTRUCTED TO WATER MAIN STANDARDS MUST BE PRESSURE TESTED TO MAINTAIN 50 PSI FOR 15 MINUTES WITHOUT LEAKAGE PRIOR TO BACKFILLING BEYOND ONE FOOT ABOVE THE PIPE TO ASSURE WATER TIGHTNESS.
 4. WHERE A WATER MAIN CROSSES UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER TO PREVENT DAMAGE TO THE WATER MAIN.

A-03. MANHOLES

- A. DIAMETER: THE MINIMUM DIAMETER OF MANHOLES SHALL BE 48 INCHES; LARGE DIAMETERS ARE PREFERRED FOR CONNECTION TO LARGE DIAMETER SEWERS. A MINIMUM ACCESS DIAMETER OF 24 INCHES SHALL BE PROVIDED.
- B. FLOW CHANNEL: FLOW CHANNELS SHALL BE PROVIDED IN THE BASE OF ALL MANHOLES AND THE FLOW CHANNEL THROUGH MANHOLES SHOULD BE MADE TO CONFORM IN SHAPE AND SLOPE TO THAT OF THE SEWERS.
- C. MANHOLES SHALL BE OF THE PRE-CAST CONCRETE OR POUR-IN PLACE CONCRETE TYPE. MANHOLES SHALL BE WATERPROOFED ON THE EXTERIOR.
- D. INLET AND OUTLET PIPES SHALL BE JOINED TO THE MANHOLE WITH A RUBBER-GASKETED FLEXIBLE WATER TIGHT CONNECTION THAT ALLOWS DIFFERENTIAL SETTLEMENT OF THE PIPE AND MANHOLE WALL TO TAKE PLACE.
- E. ALL MANHOLES SHALL BE TESTED FOR LEAKAGE. LEAKAGE TESTING OF GRAVITY SEWERS UTILIZING THE WATER TESTING PROCEDURES TAKES INTO ACCOUNT THE LEAKAGE FROM ONE MANHOLE IN THE TEST SECTION. OTHERWISE, MANHOLES SHALL BE TESTED FOR LEAKAGE IN ACCORDANCE WITH THE FOLLOWING PROCEDURE:

AFTER THE MANHOLE HAS BEEN ASSEMBLED IN PLACE, ALL LIFTING HOLES AND EXTERIOR JOINTS SHALL BE FILLED WITH AND POINTED WITH AN APPROVED NON-SHRINKING MORTAR. ALL PIPES AND OTHER OPENINGS INTO THE MANHOLE SHALL BE SUITABLY PLUGGED AND THE PLUGS PLACED TO PREVENT BLOWOUT.

EACH MANHOLE SHALL BE CHECKED FOR INFILTRATION BY FILLING WITH WATER TO THE TOP OF THE CONE SECTION. A STABILIZATION PERIOD OF ONE HOUR SHALL BE PROVIDED TO ALLOW FOR ABSORPTION. AT THE END OF THIS PERIOD, THE MANHOLE SHALL BE REFILLED TO THE TOP OF THE CONE, IF NECESSARY, AND THE MEASURING TIME OF AT LEAST SIX HOURS BEGUN. AT THE END OF THE TEST PERIOD, THE MANHOLE SHALL BE REFILLED TO THE TOP OF THE CONE MEASURING THE VOLUME OF WATER ADDED. THIS AMOUNT SHALL BE CONVERTED TO A 24 HOUR RATE AND THE LEAKAGE DETERMINED ON THE BASIS OF DEPTH. THE LEAKAGE FOR EACH MANHOLE SHALL NOT EXCEED ONE GALLON PER VERTICAL FOOT FOR A 24 HOUR PERIOD FOR INFILTRATION AND THERE SHALL BE NO VISIBLE INFILTRATION.



- NOTES:
1. SIGN TEXT SHOWN ON THIS DETAIL IS REQUIRED PER NEW YORK STATE STORMWATER MANAGEMENT MANUAL. CONTRACTOR TO COORDINATE SIGN TEXT SIZE, STYLE, ETC. AND SIGN LOCATION WITH OWNER AND ENGINEER.
 2. THE PROPOSED BUILDING. SEE TYPICAL SIGN POST DETAIL.

STORMWATER PRACTICE SIGN DETAIL

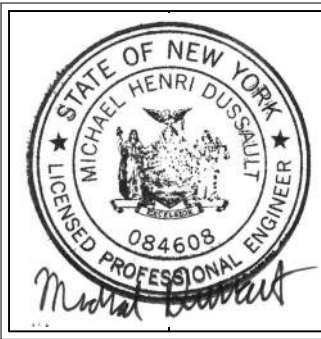
NOT TO SCALE

STORMWATER DETAILS (1 OF 2) & SANITARY DETAILS

New Construction
Hackett Boulevard Apartments
Albany, NY 12209
42 Besch Avenue

DRAWN BY: MJD
DATE: 2/12/2021
SCALE: AS NOTED
JOB No.: EV# 20483
SHEET:

C3.1



REVISION DISCUSSION	DATE	CONSULTANT
1. REV. PER UPDATED SURVEY	02/25/2021	
2. REV. PER CITY COMMENTS	04/09/2021	
3. REV. PER CITY COMMENTS	04/30/2021	

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
APRIL 30, 2021

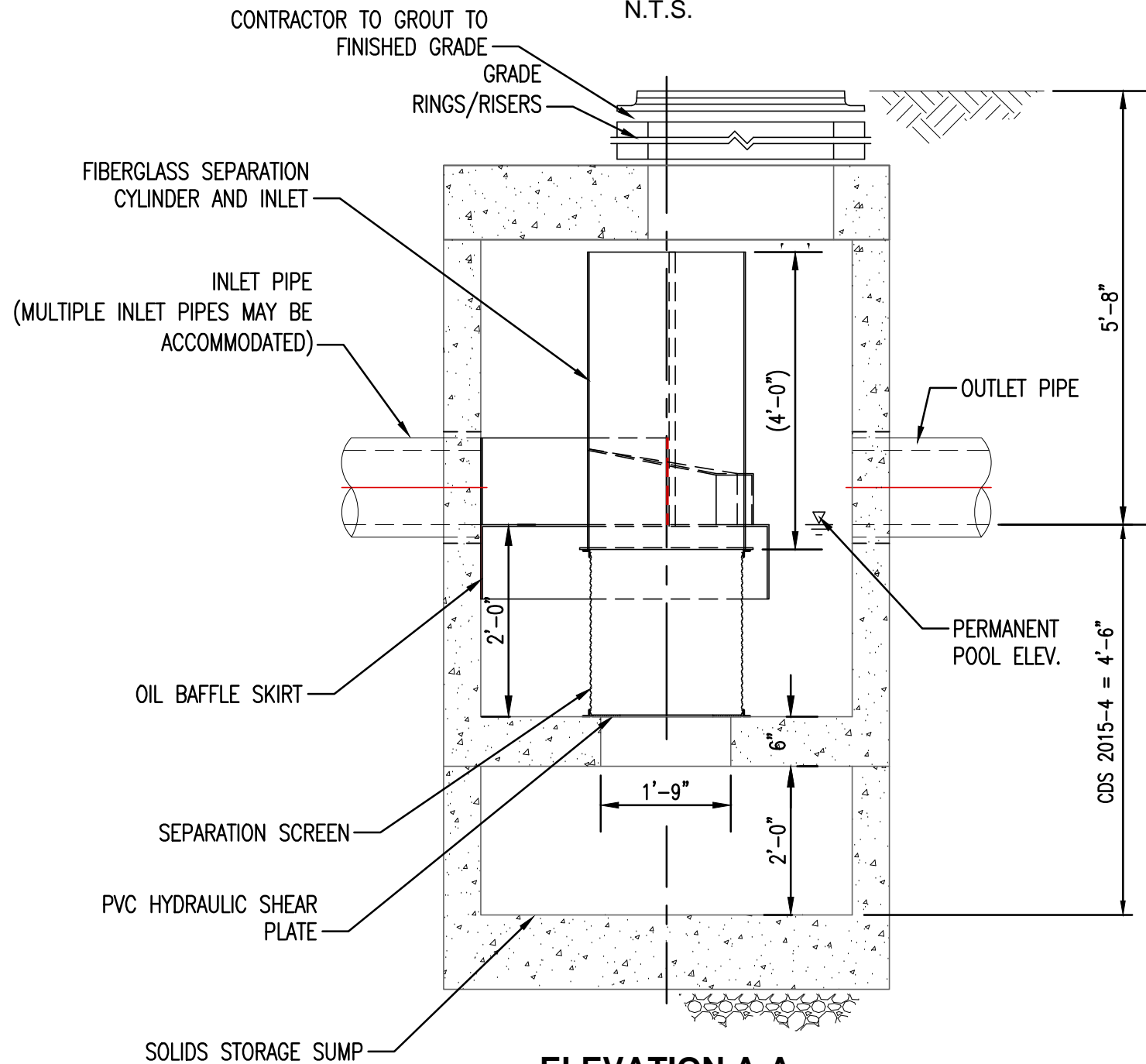
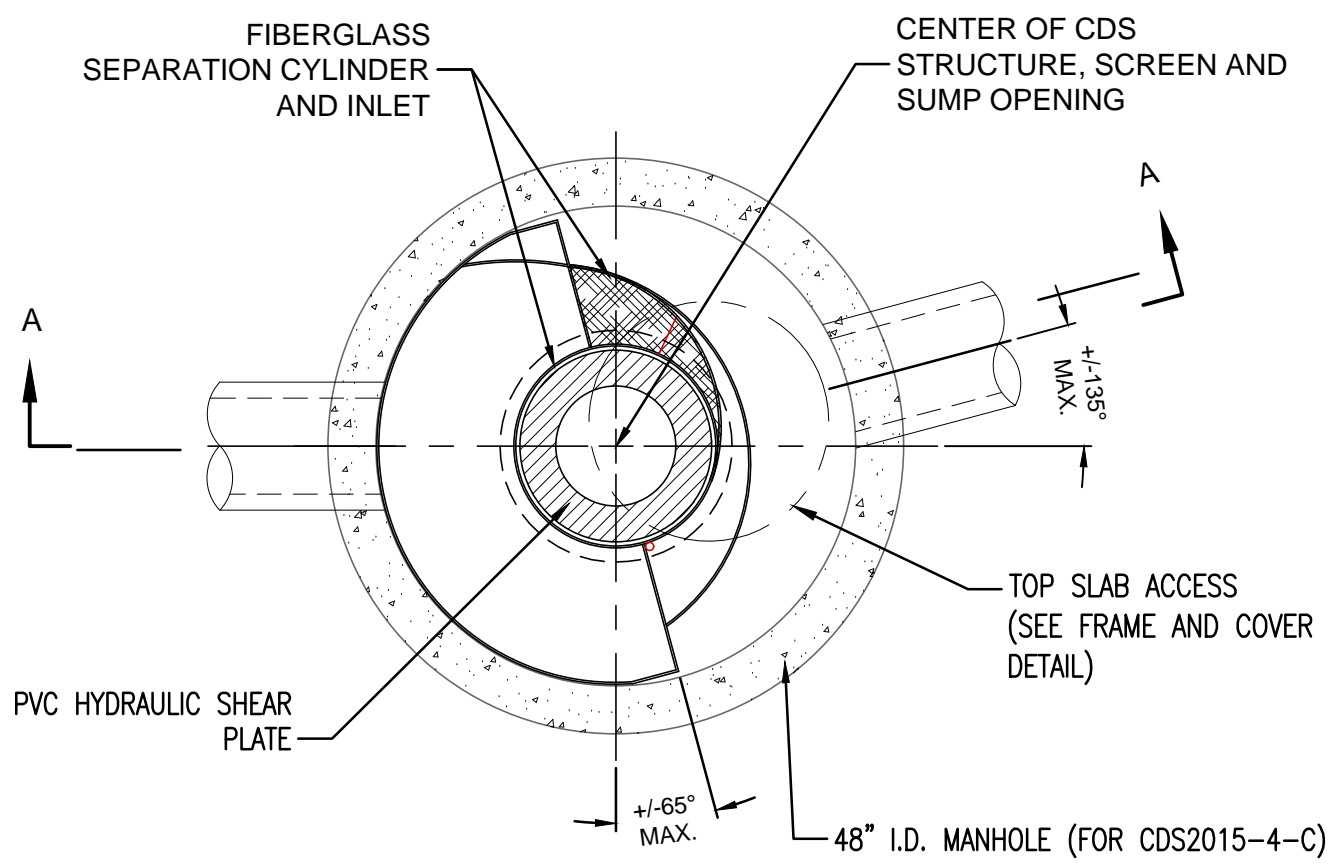
DRAWN BY: MJD
DATE: 2/12/2021
SCALE: AS NOTED
JOB No.: EV# 20483
SHEET:

C3.1



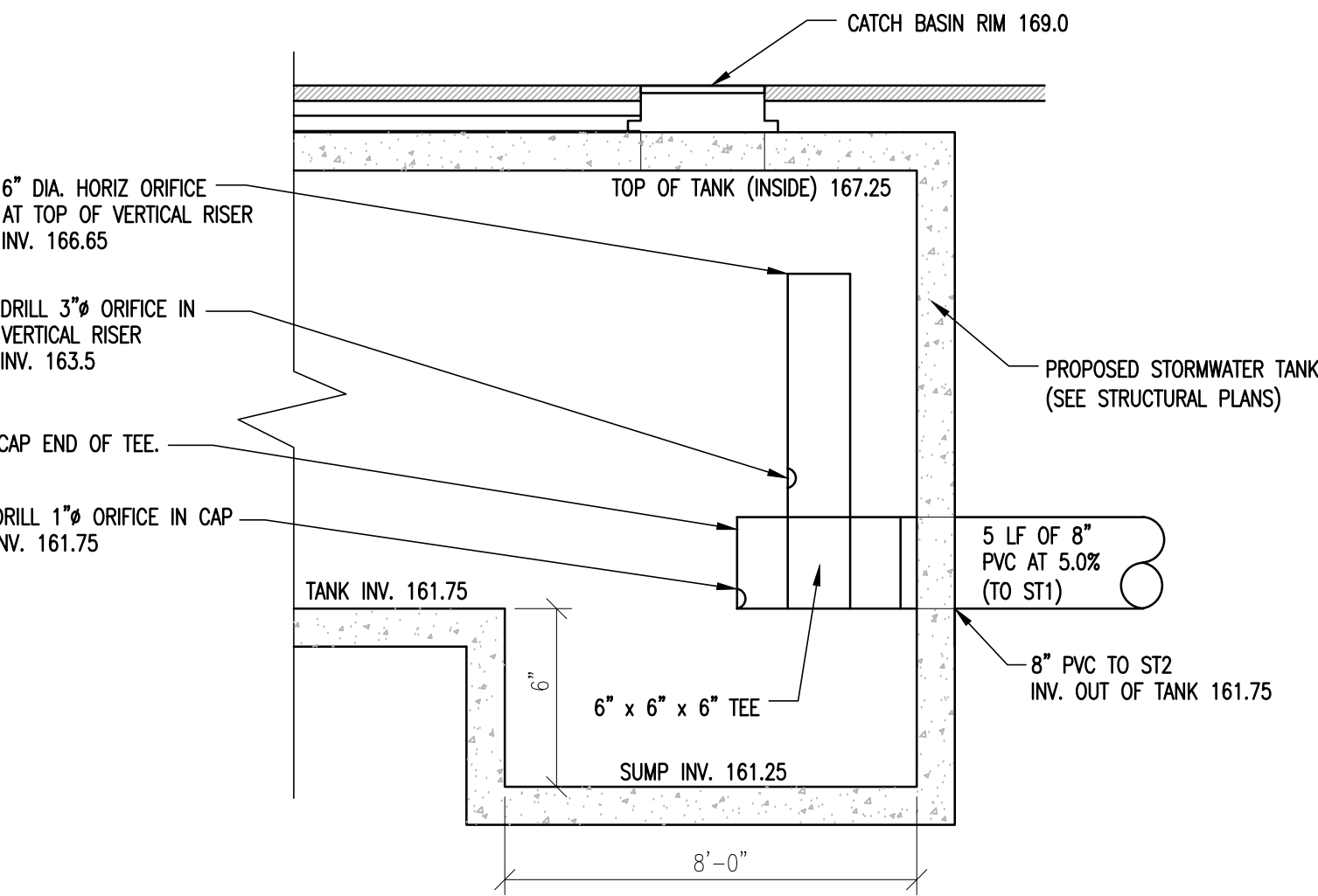
FRAME AND COVER
(DIAMETER VARIES)
N.T.S.

SITE SPECIFIC DATA REQUIREMENTS			
STRUCTURE ID	ST-3		
WATER QUALITY FLOW RATE (CFS OR L/s)	0.84 CFS		
PEAK FLOW RATE (CFS OR L/s)	3.73 CFS		
RETURN PERIOD OF PEAK FLOW (YRS)	100 YR		
SCREEN APERTURE (AND OR #/IN)	400		
PIPE DATA	12" MATERIAL	DIAMETER	
INLET PIPE 1	163.10	HDPE	12"
INLET PIPE 2	N/A	N/A	N/A
OUTLET PIPE	163.10	HDPE	12"
RIM ELEVATION	169.80		
ANTI-FLOTATION BALLAST	WIDTH	HEIGHT	
	TBD	TBD	
NOTES/SPECIAL REQUIREMENTS:			
* PER ENGINEER OF RECORD			



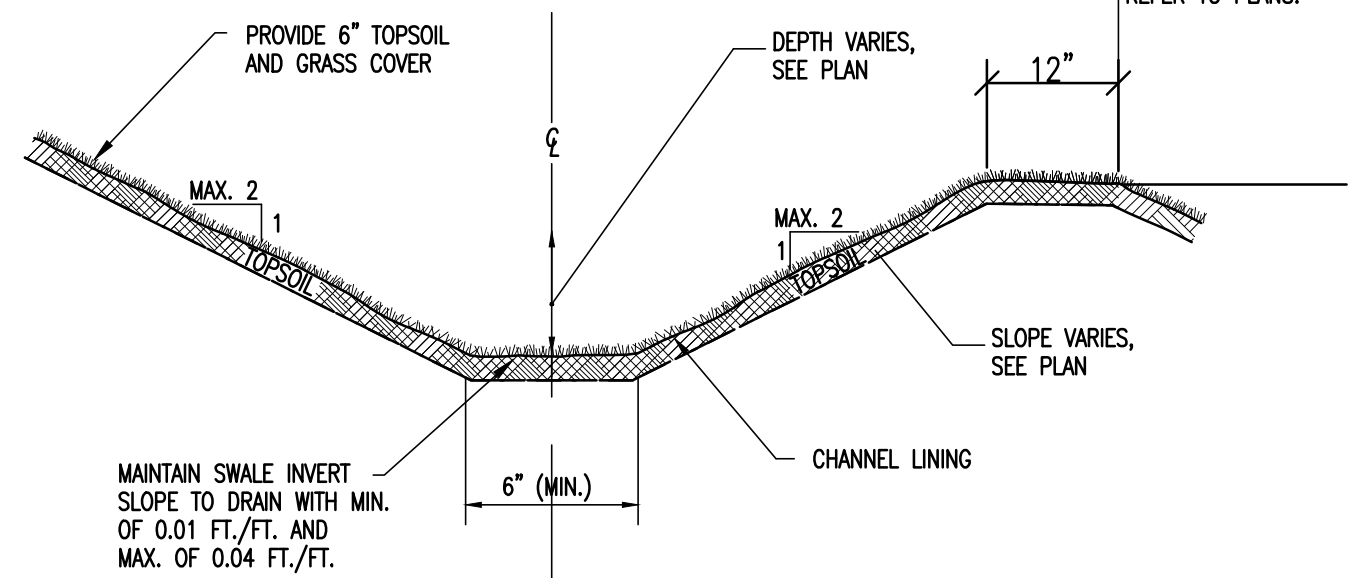
STRUCTURE ST13: CONTECH CDS DETAIL

SCALE: NONE



STORMWATER TANK OUTLET STRUCTURE DETAIL

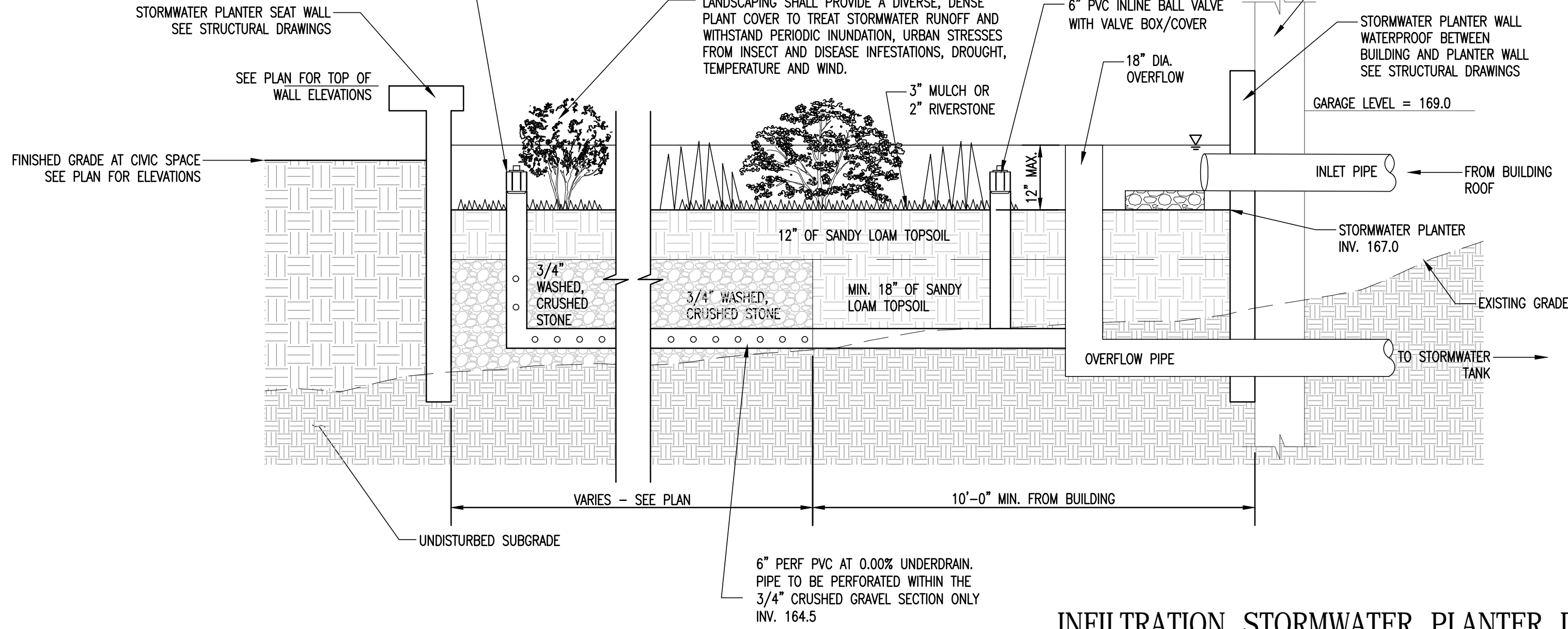
SCALE: NONE



GRASSSED SWALE NOTES:
1. PROVIDE CHANNEL LINING SC150 BY NORTH AMERICAN GREEN AS REQUIRED TO STABILIZE NEW VEGETATED SWALES. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

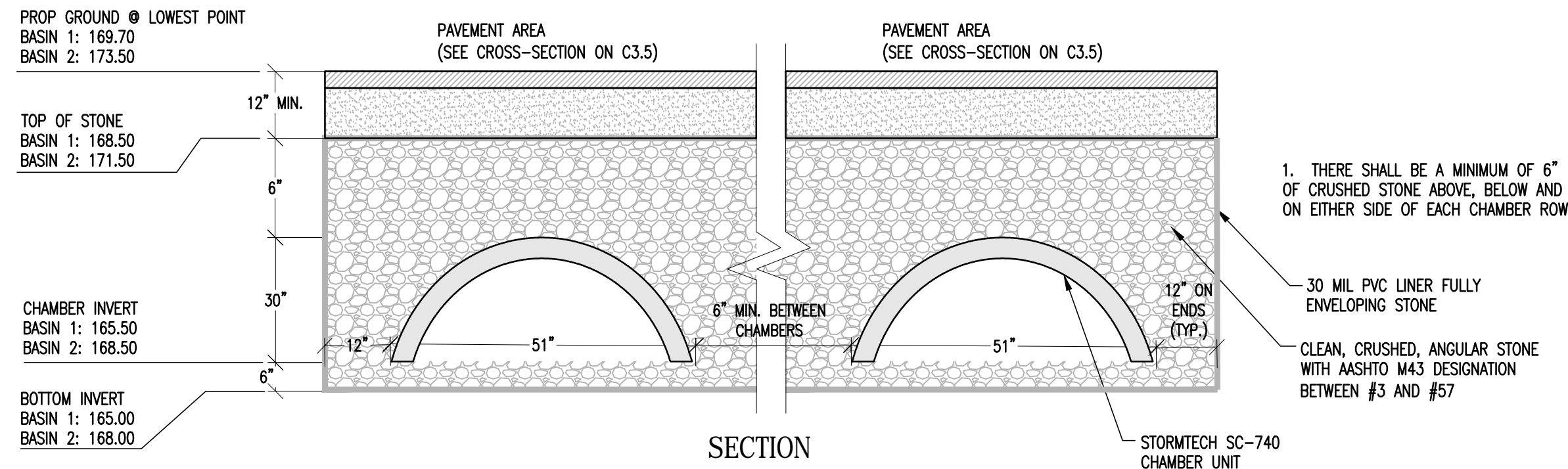
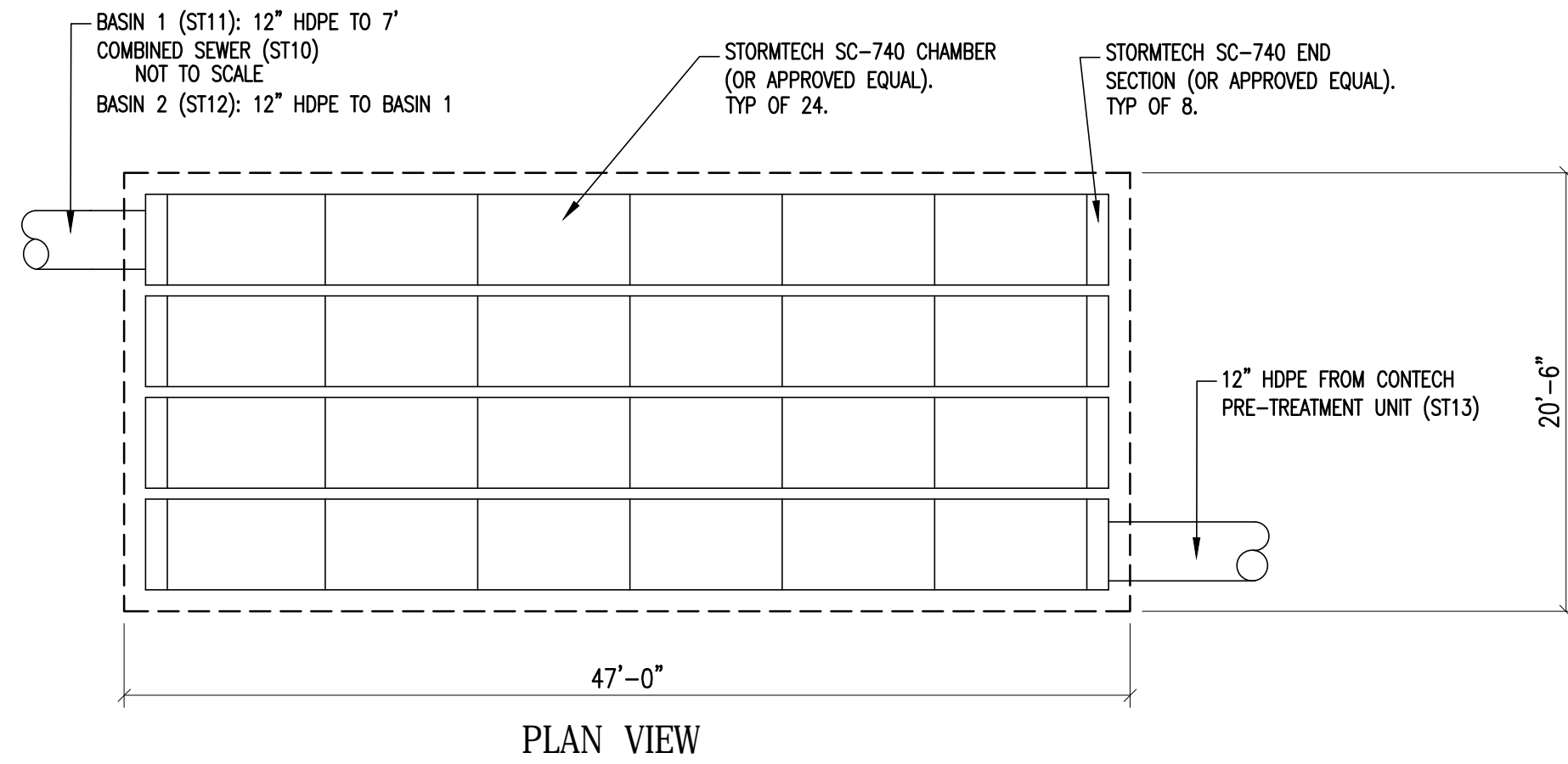
GRASSSED DRAINAGE SWALE DETAIL

SCALE: NONE



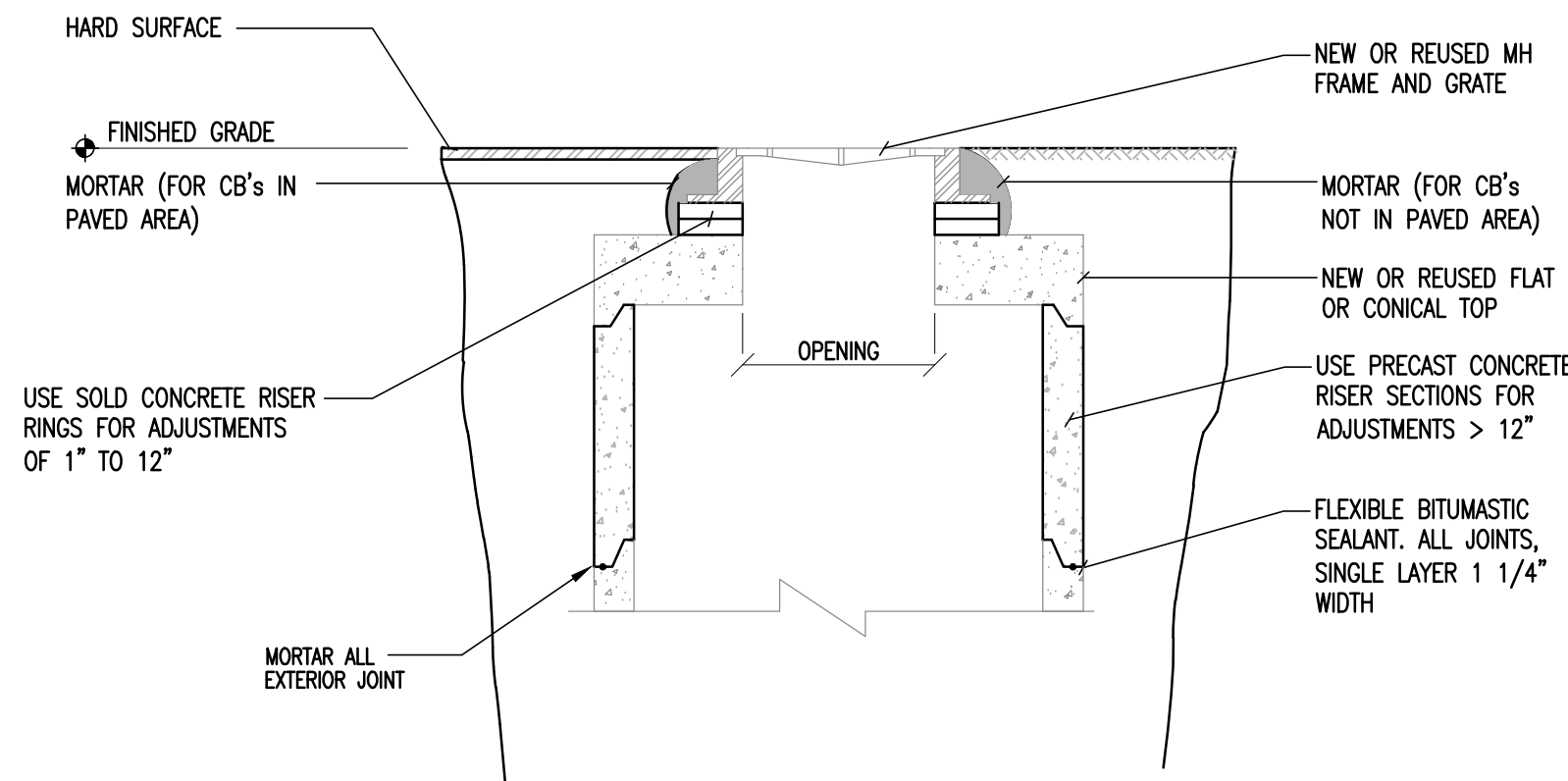
INFILTRATION STORMWATER PLANTER DETAIL

SCALE: NONE



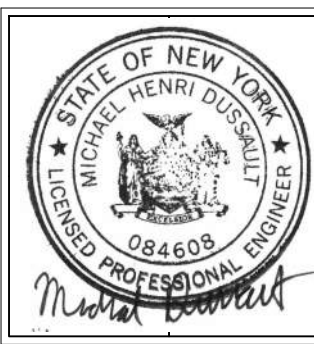
SUBSURFACE DETENTION BASIN DETAIL

SCALE: NONE



MANHOLE RIM ADJUSTMENT DETAIL

SCALE: NONE



REVISION DISCUSSION		DATE	CONSULTANT
1	REV. PER UPDATED SURVEY	02/25/2021	
2	REV. PER CITY COMMENTS	04/09/2021	
3	REV. PER CITY COMMENTS	04/30/2021	

STORMWATER DETAILS (2 OF 2)

New Construction

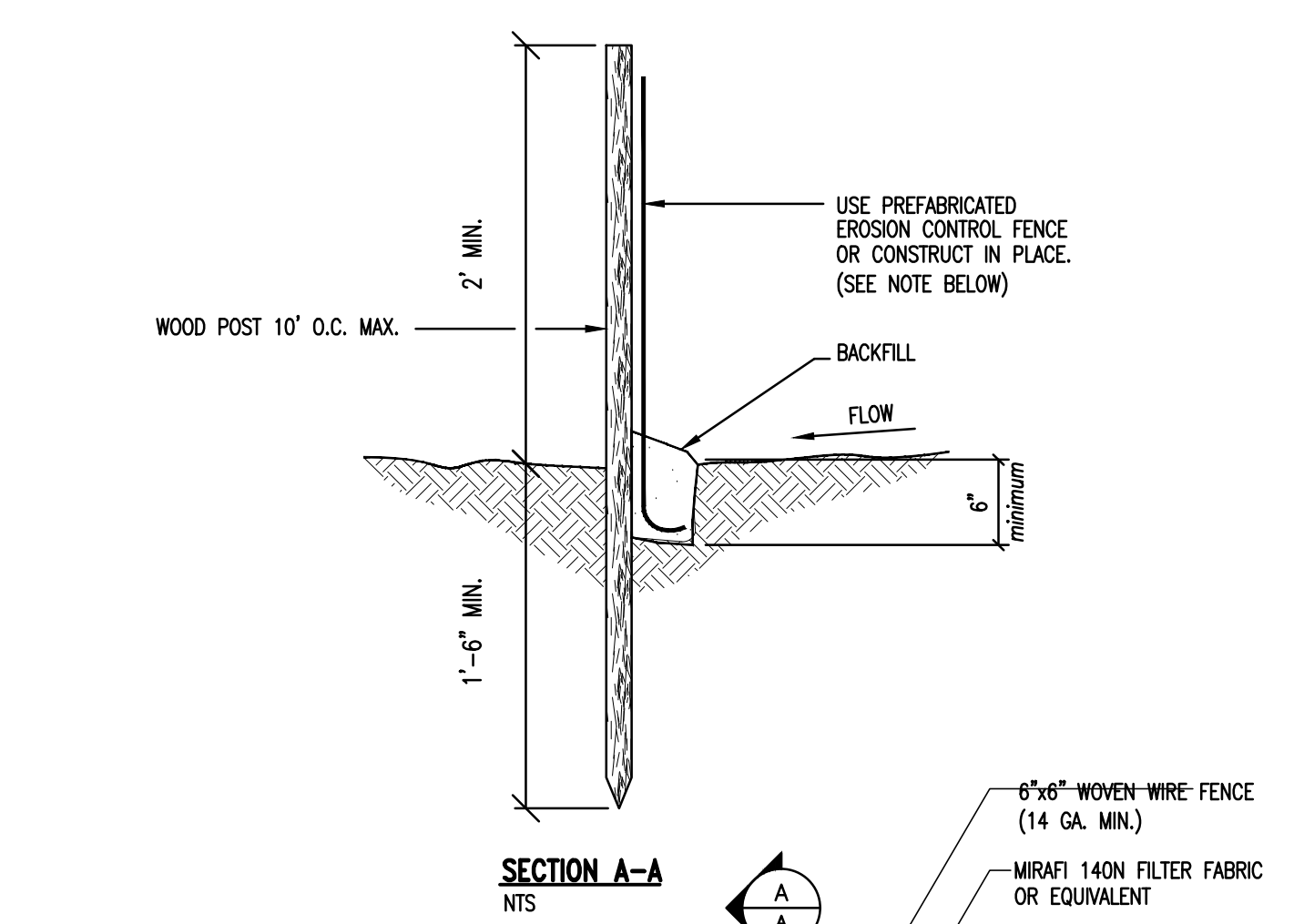
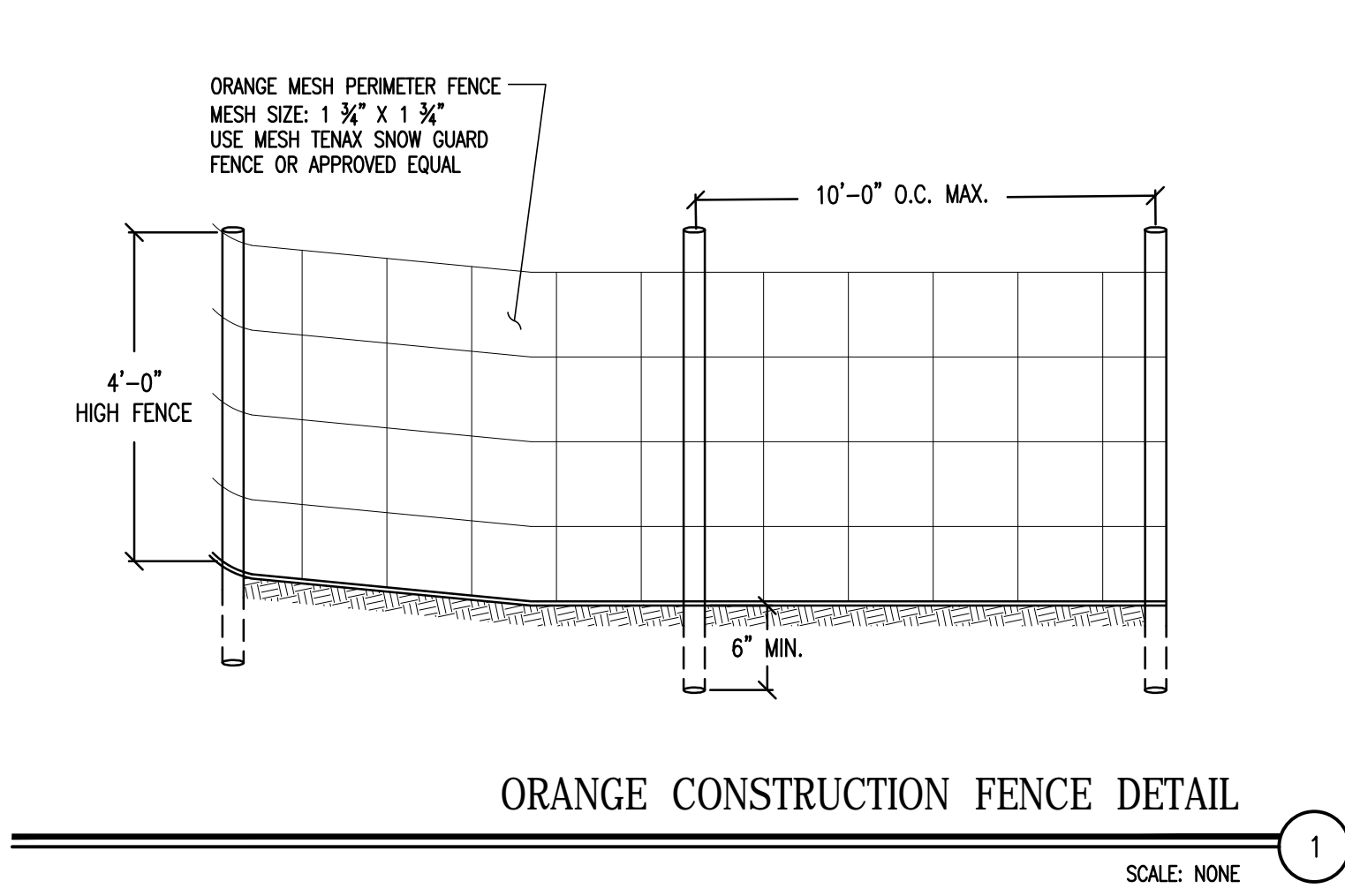
Hackett Boulevard Apartments

42 Bescho Avenue

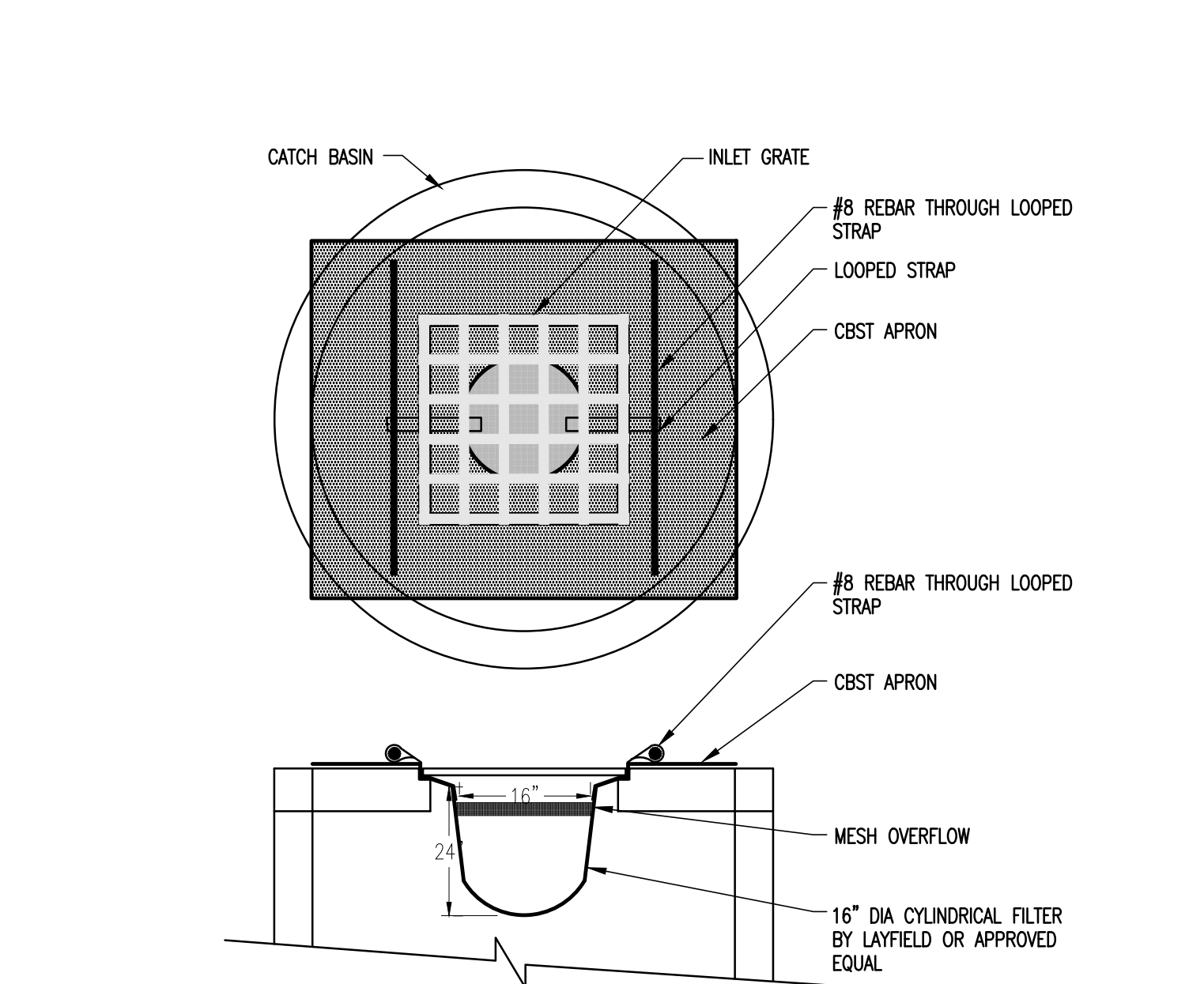
Albany, NY 12209

DRAWN BY:	MJD
DATE:	2/12/2021
SCALE:	AS NOTED
JOB No.:	EV# 20483
SHEET:	C3.2

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
APRIL 30, 2021



ORANGE CONSTRUCTION FENCE DETAIL 1 SCALE: NONE



*TO BE UTILIZED ON EXISTING CATCH BASINS

FABRIC INLET PROTECTION 2 SCALE: NONE

URBAN MIX GRASS SEED— FOR USE IN GRASSED LAWN AREAS AROUND BUILDING AND PARKING		
% BY WEIGHT	LBS. LIVE SEED BY ACRE	TYPE OF SEED
37.5	45.0	CREEPING RED FESCUE
31.25	37.5	KENTUCKY BLUEGRASS
31.25	37.5	WINTER HARDY, PERENNIAL RYE
100	120.0 # LIVE SEED/ ACRE	
CONSERVATION MIX GRASS SEED— FOR USE IN ALL OTHER AREAS		
% BY WEIGHT	LBS. LIVE SEED PER ACRE	TYPE OF SEED
35	77.0	CREEPING RED FESCUE
20	44.0	KENTUCKY BLUE GRASS
15	33.0	CUTTER PERENNIAL RYE GRASS
15	33.0	ANNUAL RYE GRASS
10	22.0	TALL FESCUE
5	11.0	WHITE CLOVER
100	220.0 # LIVE SEED/ACRE	

FERTILIZER— 10 LBS. PER 1000S.F.
SPRING SEEDING
FALL SEEDING

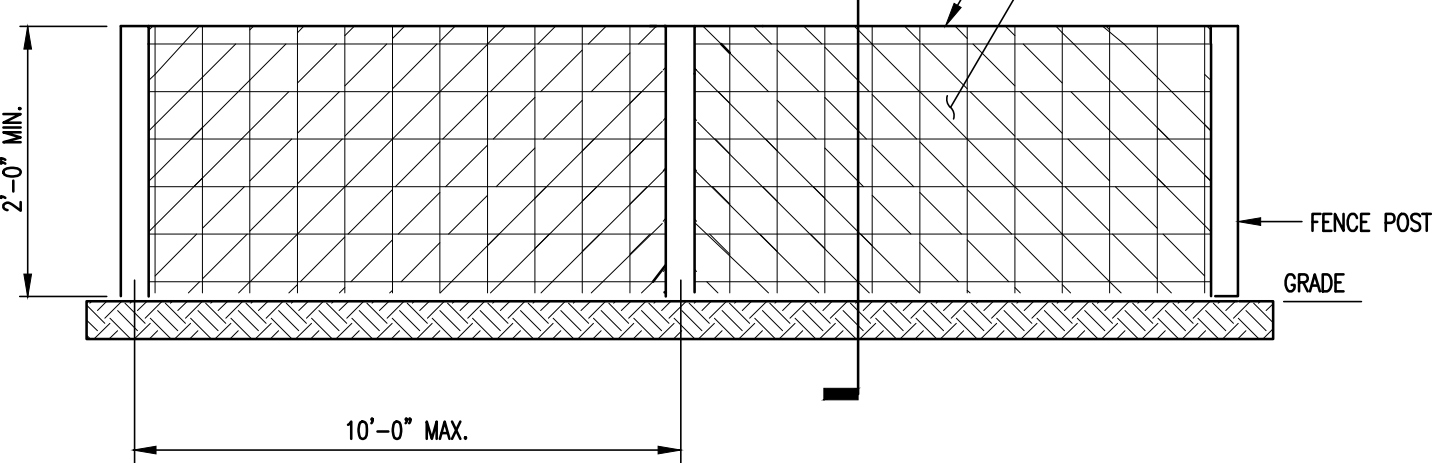
LIME— 90 LBS. PER 1000S.F.
DOLOMITE GROUND LIMESTONE
NOT LESS THAN 83% OF THE TOTAL CARBONATE

TOP SOIL
6" MINIMUM APPROVED TOPSOIL

STRAW MULCH— 2 BALES PER 1000S.F.
APPLY BINDER OR NETTING AS NEEDED

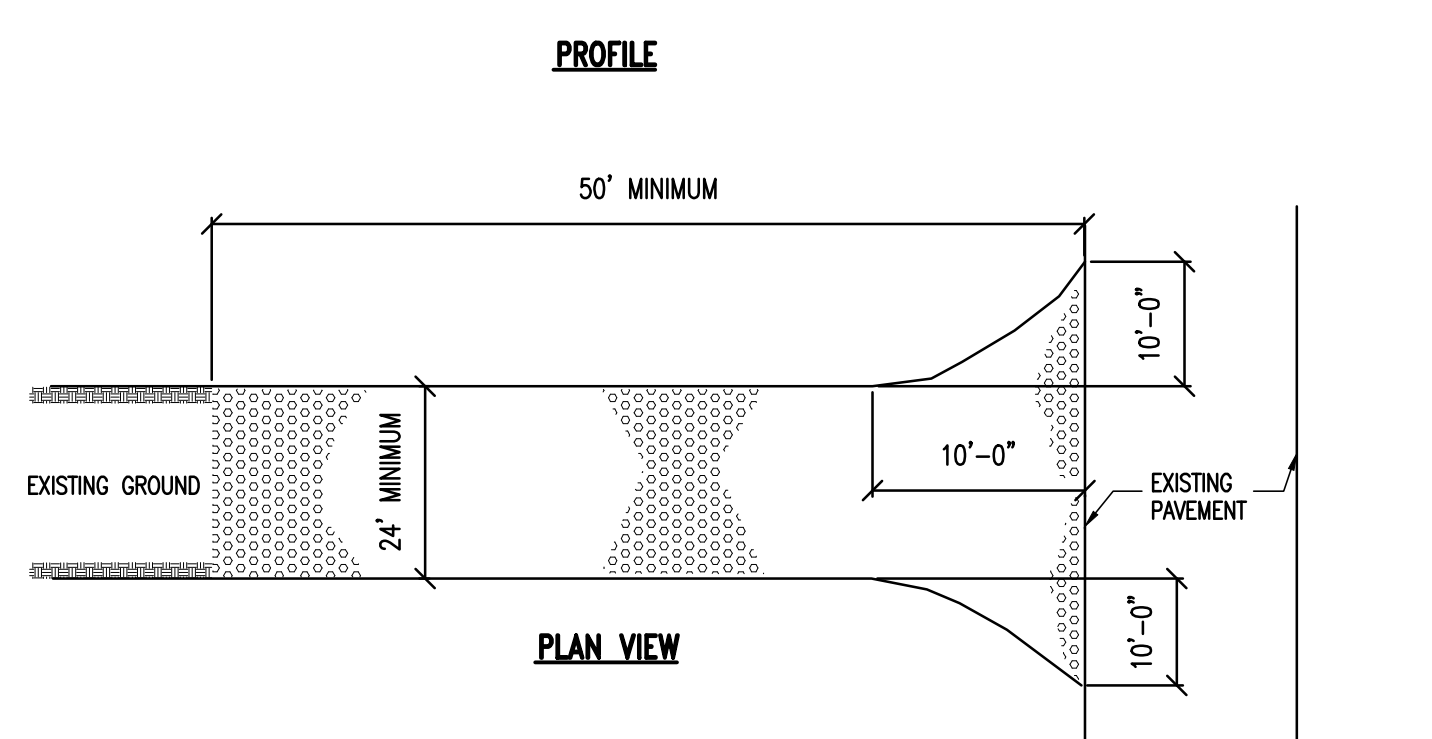
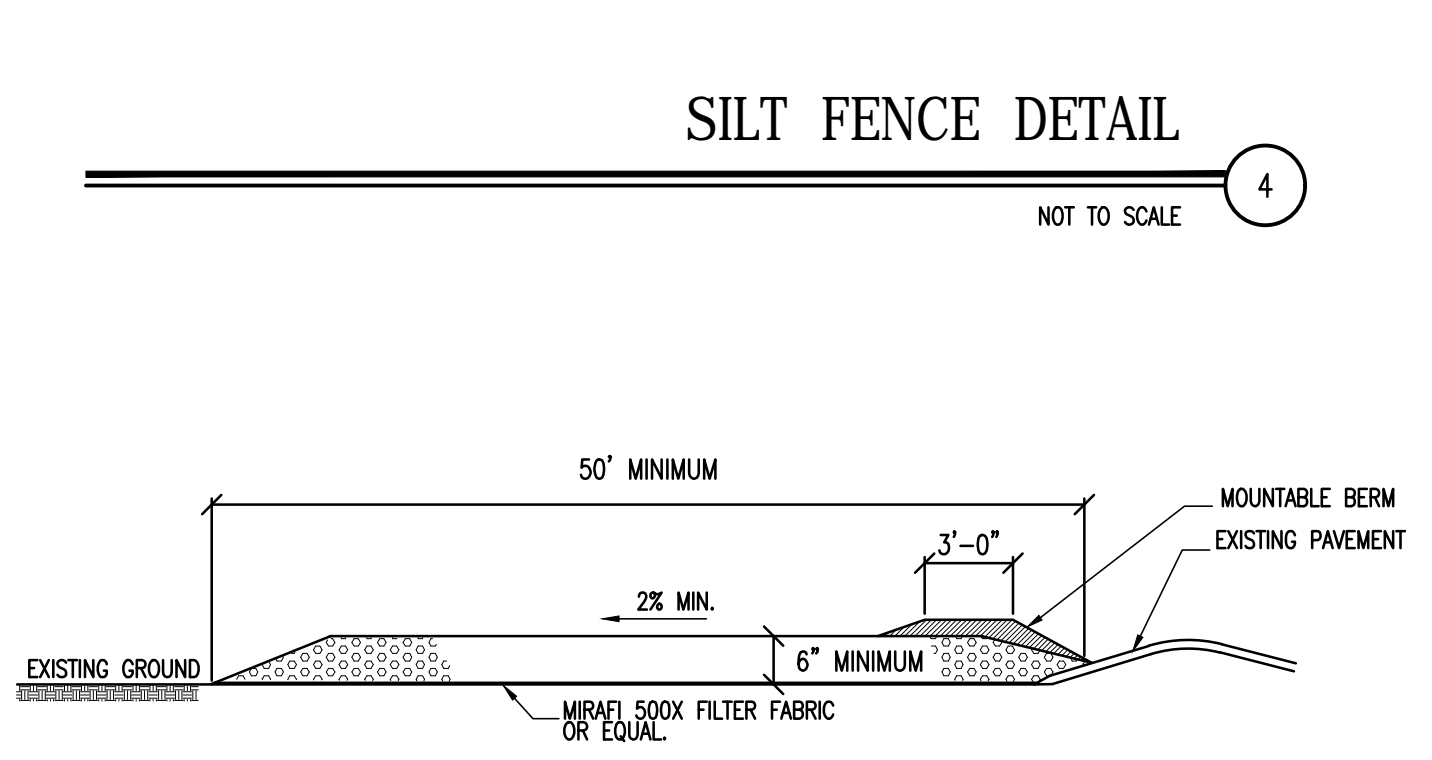
SEED SPECIFICATION 3 NOT TO SCALE

FERTILIZER-- 10 LBS. PER 1000S.F. SPRING SEEDING FALL SEEDING			
LIME-- 90 LBS. PER 1000S.F. DOLOMITIC GROUND LESTONE NOT LESS THAN 85% OF THE TOTAL CARBONATE			
TOP SOIL 6"	1000S.F.	1000S.F.	1000S.F.
STRAW MULCH-- 2 BALES PER 1000S.F. APPLY BINDER OR NETTING AS NEEDED			



SILT FENCE DETAIL 4 NOT TO SCALE

- SILT FENCE NOTES:**
- SILT FENCE SHALL BE PRE-FABRICATED EROSION CONTROL FENCE BY MIRAFI OR EQUAL, OR CONSTRUCTED IN PLACE AS SPECIFIED HEREIN.
 - CONSTRUCTED IN PLACE SILT FENCE:
 - WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
 - FILTER FABRIC TO BE FASTENED SECURELY TO WOVEN WIRE FENCE TIES SPACED EVERY 24\"/>
 - INSPECTION SHALL BE FREQUENT (MINIMUM ONCE A WEEK AND AFTER EVERY RAINFALL). MAINTENANCE SHALL BE PERFORMED AS NEEDED, AND SEDIMENT REMOVED WHEN "BULGES" DEVELOP IN SILT FENCE.



- STABILIZED CONSTRUCTION ENTRANCE NOTES:**
- STONE SIZE: USE 1-1/2\"/>
 - SURFACE WATER -- ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ACCESS SHALL BE PIPED ACROSS THE ENTRANCE.
 - MAINTENANCE -- THE CONSTRUCTION ACCESS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND. REPAIR AND/OR CLEANOUT ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHT-OF-WAYS MUST BE REMOVED IMMEDIATELY.
 - PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.
 - WHEELS SHALL BE CLEANED TO REMOVE MUD PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.

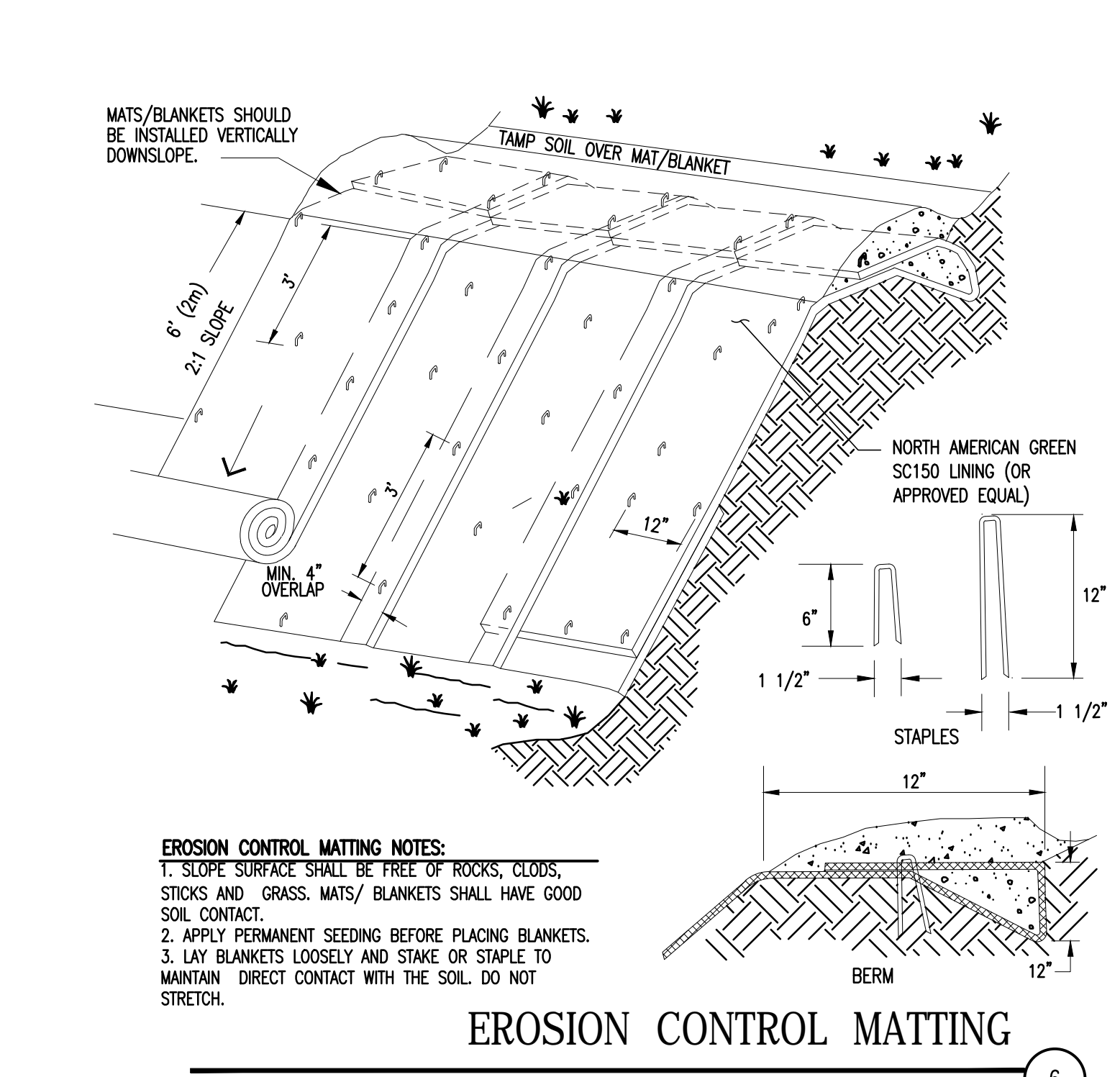
STABILIZED CONSTRUCTION ACCESS 5 NOT TO SCALE

CONSTRUCTION SEQUENCING

****THIS SEQUENCE SHOWN IS FOR PERMITTING PURPOSES ONLY AND SHALL ONLY BE USED AS A GENERAL GUIDELINE FOR CONSTRUCTION ACTIVITIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE A DETAILED CONSTRUCTION SEQUENCE DETAILING THE WORK THAT WILL BE PERFORMED.**

CONTRACTOR TO ENSURE THAT NO MORE THAN 5 ACRES IS DISTURBED AT ANY ONE TIME WITHOUT AREAS BEING FULLY STABILIZED.

- OBTAIN ALL NECESSARY APPROVALS AND PERMITS FROM THE APPROPRIATE AGENCIES INCLUDING THE NYSDEC AND THE CITY OF ALBANY.
- HOLD PRE-CONSTRUCTION MEETING WITH ALL NECESSARY PARTICIPANTS AT LEAST ONE WEEK PRIOR TO STARTING CONSTRUCTION.
- INSTALL STABILIZED CONSTRUCTION ACCESS. MARK LIMITS OF DISTURBANCE WITH FLAGGING/TAPING OR APPROPRIATE MEASURES. INSTALL SILT FENCING DOWNSLOPE OF WORK AREAS AS SHOWN ON THE PLAN. INSTALL ORANGE CONSTRUCTION FENCING/TREE PROTECTION FENCING IN THE AREAS SHOWN.
- CLEAR AND GRUBB EXISTING TREES TO LIMITS SHOWN ON THE PLAN. REMOVE EXISTING STRUCTURES AND PAVEMENT AS SHOWN ON THE PLAN. STRIP TOPSOIL IN AREAS SHOWN TO BE DISTURBED AND PLACE IN STOCKPILE AREA.
- ROUGH GRADE AREAS AS NECESSARY.
- CONSTRUCT ALL WATER AND SEWER SERVICES.
- INSTALL ALL STORM SEWER UTILITIES. SEDIMENT SHALL BE PREVENTED FROM ENTERING PROPOSED STORMWATER TANK. PROVIDE INLET PROTECTION ON ALL PROPOSED CATCH BASINS.
- INSTALL REMAINING UNDERGROUND UTILITIES.
- BEGIN CONSTRUCTION OF BUILDING AND CONTINUE UNTIL COMPLETION.
- FINAL GRADE OTHER LAWN/PAVEMENT AREAS. INSTALL PAVEMENT BASE AND SUBBASE COURSES.
- INSTALL SIDEWALK AND LANDSCAPING IN FRONT OF BUILDING.
- ONCE ALL DISTURBED AREAS HAVE ACHIEVED FINAL STABILIZATION, THE REMAINING EROSION CONTROL FEATURES SHALL BE REMOVED. STABILIZE ANY AREAS DISTURBED DURING THE REMOVAL OF TEMPORARY EAS MEASURES. INSTALL PERMANENT SEED AND MULCH ON ANY AREAS NOT ALREADY STABILIZED.



EROSION CONTROL MATTING 6 SCALE: NONE

- EROSION CONTROL MATTING NOTES:**
- SLOPE SURFACE SHALL BE FREE OF ROCKS, CLOUDS, STICKS AND GRASS. MATS/ BLANKETS SHALL HAVE GOOD SOIL CONTACT.
 - APPLY PERMANENT SEEDING BEFORE PLACING BLANKETS.
 - LAY BLANKETS LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.
- NOTES FOR SEEDED AND MULCHED AREAS**
- MULCH: HAY OR STRAW MAY BE UTILIZED AND SHALL BE APPLIED AT A RATE OF 2 TONS PER ACRE.
 - SEED: SHALL BE OF THE FOLLOWING MIXTURE:
KENTUCKY BLUE GRASS -----20 POUNDS / ACRE
CREEPING RED FESCUE -----20 POUNDS / ACRE
RYE GRASS -----5 POUNDS / ACRE
 - COVER SEED WITH 1/4 INCH SOIL UNLESS A HYDROSEEDER IS USED.
 - MULCH ANCHORING: SHALL BE ACCOMPLISHED BY DEGRADABLE MULCH NETTING. USE WHEN SLOPES ARE GREATER THAN 10%.
 - TOPSOIL AND MULCHING NOT TO BE APPLIED IN AREAS OF TRAVEL WAYS.
 - SEEDING AND MULCHING OF DISTURBED AREAS SHALL TAKE PLACE WITHIN 48 HOURS OF FINAL GRADING.

SEEDED AND MULCHED AREAS DETAIL 7 NOT TO SCALE

EROSION CONTROL NOTES

- GENERAL NOTES**
- THE "ON-SITE EROSION CONTROL PLAN COORDINATOR" SHALL BE PRESENT ON-SITE FROM DAY-TO-DAY, AND SHALL BE RESPONSIBLE FOR ENSURING THAT THE EROSION CONTROL MEASURES REQUIRED BY THE EROSION CONTROL PLAN, DETAILS AND NOTES, ARE PROPERLY INSTALLED AND MAINTAINED. THE ONSITE EROSION CONTROL PLAN COORDINATOR SHALL KEEP A WRITTEN RECORD OF INSPECTIONS OF EROSION CONTROL AND EROSION CONTROL FEATURES. A COPY OF THESE PLANS AND INSPECTION/MAINTENANCE RECORDS SHALL BE KEPT ONSITE AT ALL TIMES.
 - EROSION CONTROL MEASURES SHALL BE CONDUCTED IN ACCORDANCE WITH THE "NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROLS", DATED NOVEMBER 2016.
 - DISTURBANCE LIMITS ARE TO BE MARKED, AND THE FOLLOWING MANAGEMENT PRACTICES INSTALLED, PRIOR TO BEGINNING EARTH WORK IN ANY GIVEN AREA: SILT FENCE, CONSTRUCTION ENTRANCE AND TREE PROTECTION FENCING.
 - THE PERIOD BETWEEN OCTOBER 15TH AND APRIL 15TH IS CONSIDERED THE "WINTER CONSTRUCTION PERIOD". A PLAN FOR WINTER CONSTRUCTION MUST BE DEVELOPED BY THE CONTRACTOR, AND SUBMITTED TO THE ENGINEER AT LEAST 30 DAYS IN ADVANCE OF PROPOSED EARTH DISTURBANCE DURING THIS PERIOD.
 - ALL DISTURBED AREAS ARE TO BE STABILIZED (TEMPORARY OR FINAL) WITHIN 7 DAYS OF INITIAL DISTURBANCE. AFTER THIS TIME, ANY DISTURBANCE WITHIN THIS WORK AREA MUST BE STABILIZED AT THE END OF EACH WORK DAY, WITH THE FOLLOWING EXCEPTIONS:
 - STABILIZATION IS NOT REQUIRED IF WORK IS TO CONTINUE IN THE AREA WITHIN 24 HOURS AND NO PRECIPITATION IS FORECAST DURING THAT PERIOD.
 - WORK IS OCCURRING WITHIN A SELF-CONTAINED EXCAVATION, 2 FEET OR MORE IN DEPTH. IN NO CASE SHALL SOIL BE EXPOSED FOR MORE THAN 14 DAYS WITHOUT BEING STABILIZED.
 - THE CONTRACTOR IS RESPONSIBLE FOR DAILY INSPECTION OF THE ADJACENT ROADWAYS FOR OFF-SITE TRACKING OF SOIL MATERIALS. SOIL, STONE, AND DEBRIS FLOW LEAVING THE SITE ARE TO BE REMOVED (WHEN FOUND) BY SWEEPING AT THE END OF EACH CONSTRUCTION DAY, OR MORE FREQUENTLY WHEN NEEDED TO PREVENT IMPACTS TO ADJACENT ROADS AND SIDEWALKS.
 - IF DEWATERING IS REQUIRED FOR CONSTRUCTION, THE CONTRACTOR MUST UTILIZE SEDIMENT FILTER BAGS (OR ALTERNATE APPROVED BY THE ENGINEER) TO PREVENT DISCHARGE OF SEDIMENT-LADEN WATER OFF SITE.

- TEMPORARY/CONSTRUCTION EROSION CONTROL MEASURES**
- THE SMALLEST PRACTICAL AREA OF LAND SHALL BE DISTURBED AT ANY ONE TIME DURING DEVELOPMENT. WHEN LAND IS DISTURBED, THE DISTURBANCE SHALL BE KEPT TO THE SHORTEST PRACTICAL DURATION AS ALLOWED BY THE ENGINEER.
 - DUST SHALL BE CONTROLLED WITH WATER DISTRIBUTED BY A TRUCK-MOUNTED SPRAY BAR. CALCIUM CHLORIDE (ASHTO M 144) OR SODIUM CHLORIDE (ASHTO M 143) SHALL BE USED AS DIRECTED BY THE ENGINEER.
 - SILT FENCES SHALL BE INSTALLED GENERALLY 10 FEET FROM THE BASE OF THE FILL SLOPES, OR AS SHOWN ON THE PLANS. THESE SHALL REMAIN IN PLACE UNTIL THE PROJECT SITE HAS BEEN STABILIZED. SEDIMENT SHALL BE REMOVED FROM BEHIND THE SILT FENCE WHEN IT BECOMES 6 INCHES DEEP AT THE FENCE. THE SILT FENCE WILL BE REPAIRED AS NECESSARY TO MAINTAIN A PROPER SEDIMENT BARRIER.
 - EXCAVATED MATERIAL FROM EARTH EXCAVATION AND DITCH DIGGING SHALL BE PLACED ONSITE IN A LOCATION TO BE APPROVED OF BY THE OWNER AND/OR THE ENGINEER OR USED FOR PROJECT FILL MATERIAL IF DETERMINED SUITABLE BY THE OWNER'S REPRESENTATIVE.
 - STOCKPILED MATERIAL (TOPSOIL, BORROW, ETC.) SHALL HAVE SILT FENCE CONSTRUCTED AROUND THE PERIMETER. THE STOCKPILED MATERIAL SHALL BE SEEDED AND MULCHED AS SOON AS POSSIBLE TO PREVENT SOIL EROSION AND SEDIMENTATION OFF SITE. LOCATE STOCKPILES ON THE UPHILL SIDE OF DISTURBED AREAS, IF POSSIBLE. DURING WINDY CONDITIONS, STOCKPILED MATERIAL SHALL BE COVERED OR WATERED APPROPRIATELY TO PREVENT WIND EROSION.
 - SLOPES GREATER THAN 3:1 SHALL HAVE EROSION CONTROL NETTING INSTALLED TO STABILIZE THE SLOPE AND REDUCE THE EROSION POTENTIAL. NETTING SHALL BE BIODEGRADABLE WITH A 12 MONTH LONGEVITY, 5150BN AS MANUFACTURED OR APPROVED EQUIVALENT. INSTALL NETTING OVER MULCHED SLOPES SO THAT ALL PARTS ARE IN CONTACT WITH THE SOIL AND MULCH. PIN NETTING WITH WIRE STAPLES 3 FEET O.C. TO ENSURE FULL BONDING WITH SOIL SURFACE. THE SLOPE SURFACES SHOULD BE LEFT SLIGHTLY ROUGHENED AND NOT SMOOTH. IF LARGE AMOUNTS OF OFFSITE WATER WILL DRAIN OVER THESE SLOPES, TEMPORARY DIVERSION SWALES SHALL BE INSTALLED UP SLOPE UNTIL THE SLOPE VEGETATION STABILIZES.
- PERMANENT EROSION CONTROL MEASURES**
- WHEN FINAL GRADES ARE REACHED IN AN AREA, IT SHALL BE SEEDED AND MULCHED WITHIN 48 HOURS.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTINUED MAINTENANCE OF ALL DISTURBED AREAS, INCLUDING WATERING UNTIL THE AREA IS INSPECTED AND ACCEPTED BY THE OWNER OR ENGINEER.
 - AFTER THE SITE IS STABILIZED, REMOVE ALL TEMPORARY MEASURES AND INSTALL PERMANENT VEGETATION ON THE DISTURBED AREAS.
 - RE-SEEDING SHALL BE DONE UNTIL ALL AREAS ARE COMPLETELY COVERED WITH A MATURE STRAND OF GRASS. AN AREA SHALL BE CONSIDERED COVERED WHEN THE ENTIRE SURFACE CONTAINS A VERDURIOUS STAND OF GRASS. AREAS THAT, IN THE OPINION OF THE ENGINEER, ARE PREDOMINANTLY WEEDS SHALL BE PLOWED UP, FINE GRADED, FERTILIZED AND RE-SEEDED IN THE MANNER SPECIFIED PREVIOUSLY, EXERCISING CAUTION NOT TO CAUSE DAMAGE TO NEW OR EXISTING PLANT MATERIAL.
 - ALL STABILIZATION INVOLVING SEEDING IS TO BE COMPLETED BY SEPTEMBER 15TH.

WINTER EROSION CONTROL NOTES

- WINTER CONSTRUCTION PROCEDURES**
- DURING WINTER CONSTRUCTION, INSPECTIONS BY THE ON-SITE PLAN COORDINATOR SHALL OCCUR DAILY WHEN AREAS ARE UN-STABLE, AND WEEKLY PRIOR TO ANY FORECASTED RAIN, THAW OR SPRING MELT WHEN TEMPORARY STABILIZATION IS IN PLACE.
 - IN AREAS TO BE STABILIZED BY VEGETATION, ALL SEEDING MUST BE COMPLETED BY SEPTEMBER 15 TO ALLOW GROWTH TO OCCUR PRIOR TO THE GROUND FREEZING. STABILIZATION OF ALL OTHER DISTURBED AREAS SHALL BE COMPLETED BY OCTOBER 15.
 - ENLARGED ACCESS POINTS, STABILIZED TO PROVIDE FOR SNOW STOCKPILING SHALL BE INSTALLED.
 - LIMITS OF DISTURBANCE SHALL BE MOVED OR REPLACED TO REFLECT BOUNDARY OF WINTER WORK.
 - SNOW WILL NOT BE PILED WITHIN 25 FEET OF PERIMETER CONTROLS (SUCH AS SILT FENCE) TO ALLOW FOR CLEARING AND MAINTENANCE. SNOW IS TO BE REMOVED FROM ALL STRUCTURAL EROSION PREVENTION AND SEDIMENTATION CONTROL MEASURES FOLLOWING EACH SIGNIFICANT SNOWFALL. NO SNOW STORAGE UP-GRADE OF DISTURBANCE. NO SNOW DISPOSAL IN SEDIMENT PONDS/BASINS. IF NECESSARY, SNOW/ICE MUST BE REMOVED PRIOR TO STABILIZATION OF DISTURBED AREAS. ACCESS POINTS SHALL BE ENLARGED AND STABILIZED TO ALLOW FOR SNOW STOCKPILING.
 - IN AREAS OF DISTURBANCE WITHIN 100 FT OF A RECEIVING WATER, SILT FENCE SHALL BE REINFORCED OR ELSE REPLACED WITH PERIMETER DIKES, SWALES OR OTHER PRACTICES RESISTANT TO THE FORCES OF SNOW LOADS.
 - DRAINAGE STRUCTURES SHALL BE KEPT OPEN AND FREE OF SNOW AND ICE DAMS.
 - ALL EROSION PREVENTION AND SEDIMENT CONTROL MEASURES ARE TO BE IN PLACE BY OCTOBER 15, OR IF NOT POSSIBLE, THEN PRIOR TO GROUND FREEZE.
 - MULCH IS TO BE APPLIED AT THE END OF EACH WORKDAY TO ALL EXPOSED AREAS THAT HAVE NOT YET REACHED FINAL GRADE AT TWICE THE RATE INDICATED IN THE SEEDING AND MULCHING DETAIL FOR THE REGULAR CONSTRUCTION SEASON. MULCH SHALL BE TRACKED IN OR STABILIZED WITH NETTING.
 - TO ENSURE COVER OF DISTURBED SOIL IN ADVANCE OF A MELT EVENT, AREAS OF DISTURBED SOIL MUST BE STABILIZED AT THE END OF EACH WORK DAY, WITH THE FOLLOWING EXCEPTIONS:
 - IF NO PRECIPITATION WITHIN 24 HOURS IS FORECAST AND WORK WILL RESUME IN THE SAME DISTURBED AREA WITHIN 24 HOURS, DAILY STABILIZATION IS NOT NECESSARY.
 - DISTURBED AREAS THAT COLLECT AND RETAIN RUNOFF, SUCH AS HOUSE FOUNDATIONS OR OPEN UTILITY TRENCHES.
 - SNOW AND ICE SHALL BE REMOVED TO LESS THAN 1" THICKNESS PRIOR TO STABILIZATION.
 - STONE STABILIZATION, 10 TO 20 FT WIDE IN AREAS SUCH AS THE PERIMETER OF BUILDINGS UNDER CONSTRUCTION WHERE CONSTRUCTION VEHICLE TRAFFIC IS ANTICIPATED SHALL BE INSTALLED.
 - 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.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
APRIL 30, 2021

ARCHITECTURE, PC
www.C2-DesignGroup.com
24 Airport Road | Schenectady, ny 12302 | 518.320.8250

STATE OF NEW YORK
MICHAEL J. NEW YORK
084608
Professional Engineer
Michael J. New York

ENGINEERING
VENTURES, PC
Professional Engineer
7000 Route 90, Suite 200
Schenectady, NY 12302
518.320.8250
www.c2-engineering.com

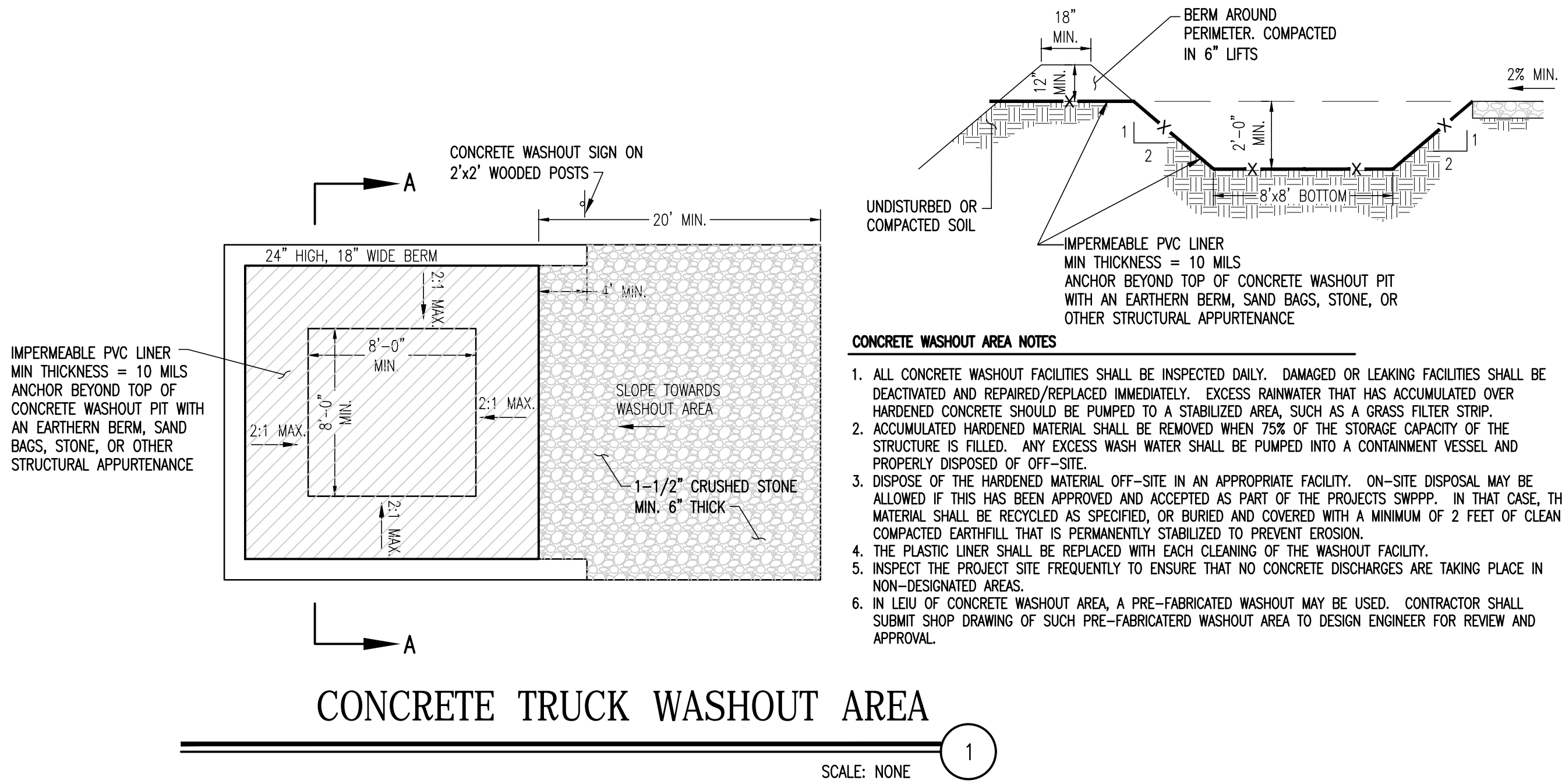
REVISION DISCUSSION	DATE	CONSULTANT
1. REV. PER UPDATED SURVEY	02/25/2021	
2. REV. PER CITY COMMENTS	04/09/2021	
3. REV. PER CITY COMMENTS	04/30/2021	

PROJECT:
New Construction
Hackett Boulevard Apartments
42 Besch Avenue
Albany, NY 12209

DRAWN BY: MJD
DATE: 2/12/2021
SCALE: AS NOTED
JOB No.: EV# 20483
SHEET: C3.3

EROSION & SEDIMENT CONTROL DETAILS (1 OF 2)

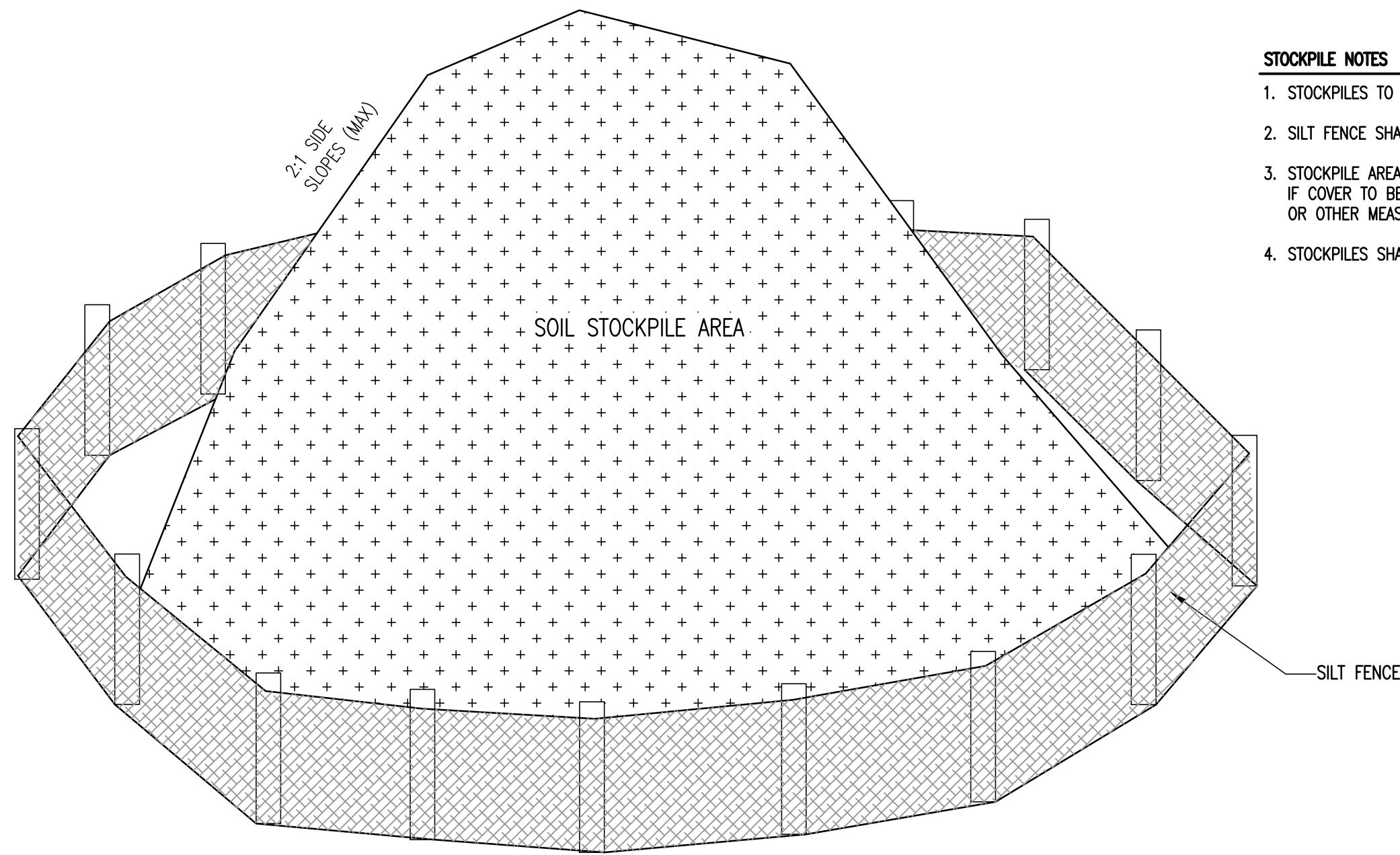
Copyright © 2021, C2 ARCHITECTURE, PC. The material and ideas contained in this document are confidential and are the proprietary property of C2 ARCHITECTURE, PC. These materials and ideas shall not be released or otherwise made available to any third party, or reproduced in whole or in part, without the express written consent of C2 ARCHITECTURE, PC.



CONCRETE TRUCK WASHOUT AREA

SCALE: NONE

1



TEMPORARY SOIL STOCKPILE AREA DETAIL

SCALE: NONE

2

CONCRETE WASHOUT AREA NOTES

1. ALL CONCRETE WASHOUT FACILITIES SHALL BE INSPECTED DAILY. DAMAGED OR LEAKING FACILITIES SHALL BE DEACTIVATED AND REPAIRED/REPLACED IMMEDIATELY. EXCESS RAINWATER THAT HAS ACCUMULATED OVER HARDENED CONCRETE SHOULD BE PUMPED TO A STABILIZED AREA, SUCH AS A GRASS FILTER STRIP.
2. ACCUMULATED HARDENED MATERIAL SHALL BE REMOVED WHEN 75% OF THE STORAGE CAPACITY OF THE STRUCTURE IS FILLED. ANY EXCESS WASH WATER SHALL BE PUMPED INTO A CONTAINMENT VESSEL AND PROPERLY DISPOSED OF OFF-SITE.
3. DISPOSE OF THE HARDENED MATERIAL OFF-SITE IN AN APPROPRIATE FACILITY. ON-SITE DISPOSAL MAY BE ALLOWED IF THIS HAS BEEN APPROVED AND ACCEPTED AS PART OF THE PROJECTS SWPPP. IN THAT CASE, THE MATERIAL SHALL BE RECYCLED AS SPECIFIED, OR BURIED AND COVERED WITH A MINIMUM OF 2 FEET OF CLEAN COMPACTED EARTHWALL THAT IS PERMANENTLY STABILIZED TO PREVENT EROSION.
4. THE PLASTIC LINER SHALL BE REPLACED WITH EACH CLEANING OF THE WASHOUT FACILITY.
5. INSPECT THE PROJECT SITE FREQUENTLY TO ENSURE THAT NO CONCRETE DISCHARGES ARE TAKING PLACE IN NON-DESIGNATED AREAS.
6. IN LIEU OF CONCRETE WASHOUT AREA, A PRE-FABRICATED WASHOUT MAY BE USED. CONTRACTOR SHALL SUBMIT SHOP DRAWING OF SUCH PRE-FABRICATED WASHOUT AREA TO DESIGN ENGINEER FOR REVIEW AND APPROVAL.

STOCKPILE NOTES

1. STOCKPILES TO HAVE MAXIMUM 2:1 SIDE SLOPES.
2. SILT FENCE SHALL BE PLACED AROUND THE PERIMETER OF STOCKPILE AREA.
3. STOCKPILE AREA TO BE STABILIZED WITH VEGETATION, GEOTEXTILE, OR COVER. IF COVER TO BE USED, COVER SHALL BE SECURED WITH USE OF SAND BAGS OR OTHER MEASURES TO PREVENT COVER FROM BLOWING OFF STOCKPILE.
4. STOCKPILES SHALL BE PLACED ON DRY AND STABLE AREAS.

DRAWN BY:	MJD
DATE:	2/12/2021
SCALE:	AS NOTED
JOB No.:	EV# 20483
SHEET:	C3.4

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
APRIL 30, 2021

EROSION & SEDIMENT CONTROL DETAILS (2 OF 2)

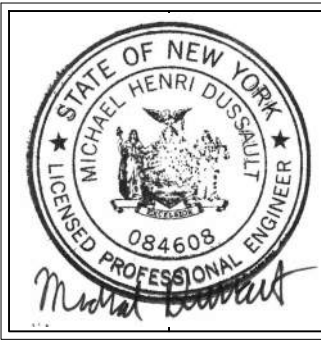
PROJECT:

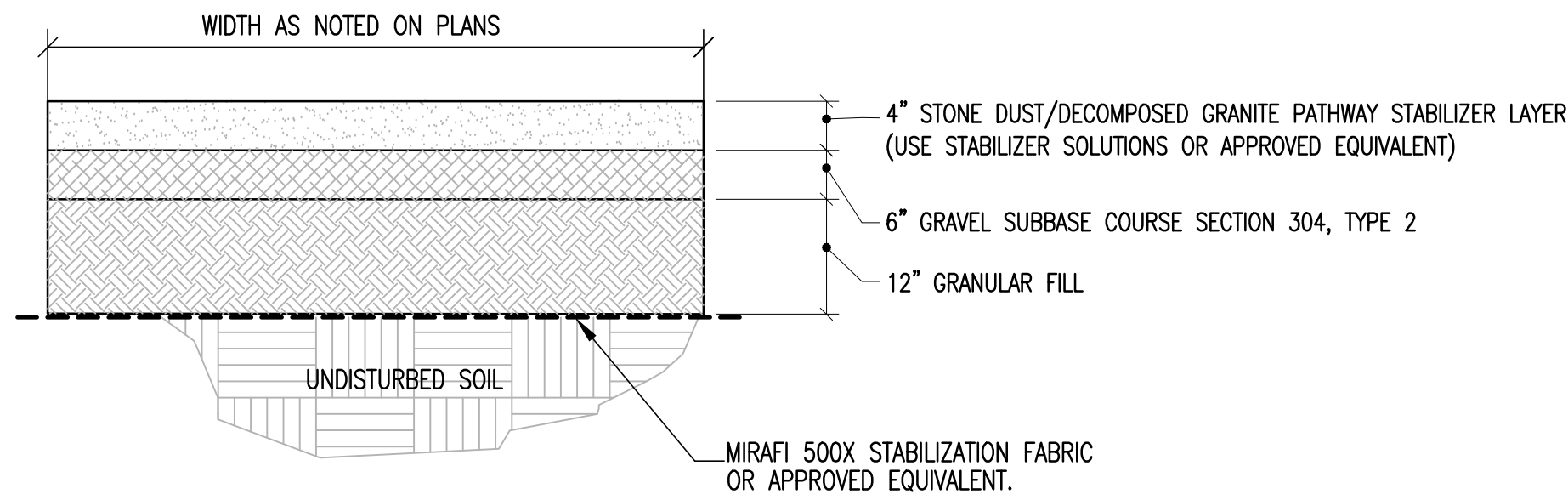
New Construction

Hackett Boulevard Apartments

42 Besch Avenue
Albany, NY 12209

No.	REVISION DESCRIPTION	DATE	CONSULTANT
1	REV. PER UPDATED SURVEY	02/25/2021	
2	REV. PER CITY COMMENTS	04/09/2021	
3	REV. PER CITY COMMENTS	04/30/2021	



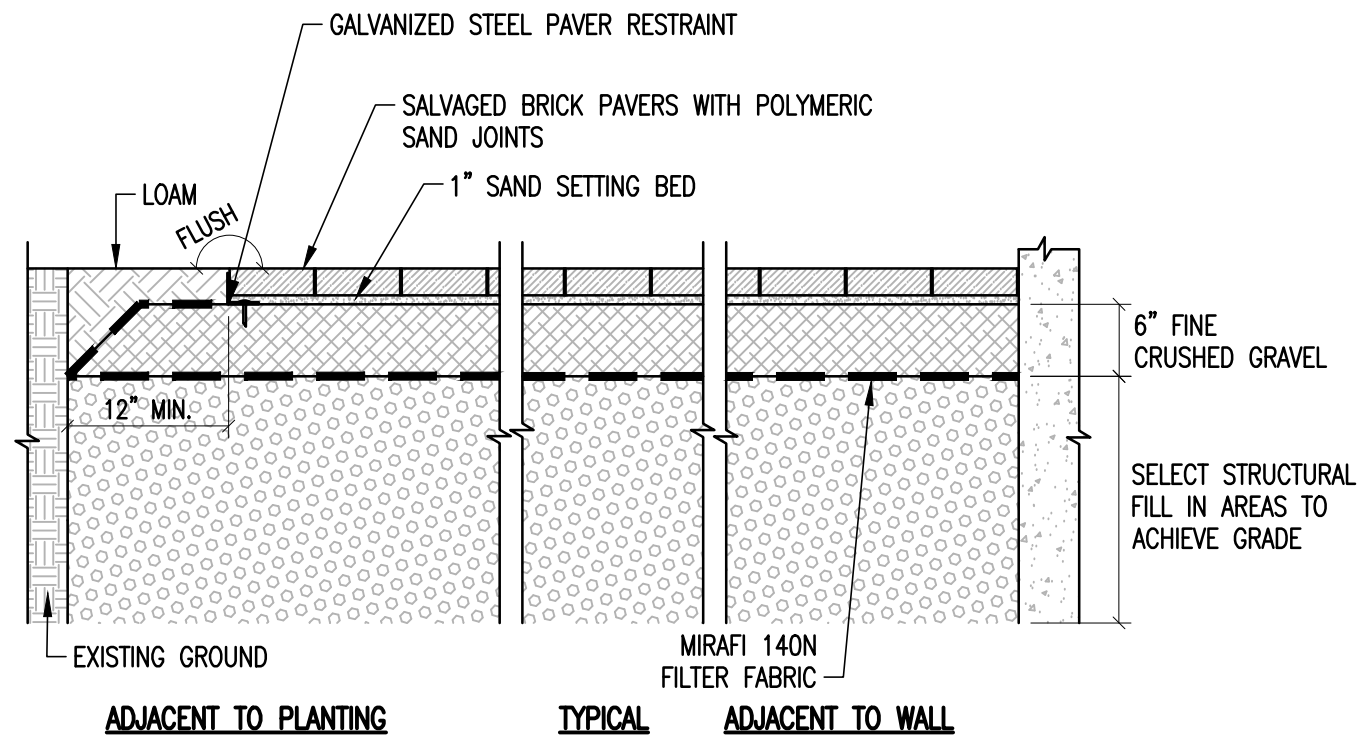


- PAVEMENT PATCHING NOTES:**
1. EXCAVATE BASE MATERIAL AND SUB-BASE MATERIAL IF INADEQUATE.
 2. COMPACT ALL FILL MATERIAL TO 95% OPTIMUM DENSITY.

CIVIC SPACE (GRAVEL) SECTION

SCALE: NONE

1



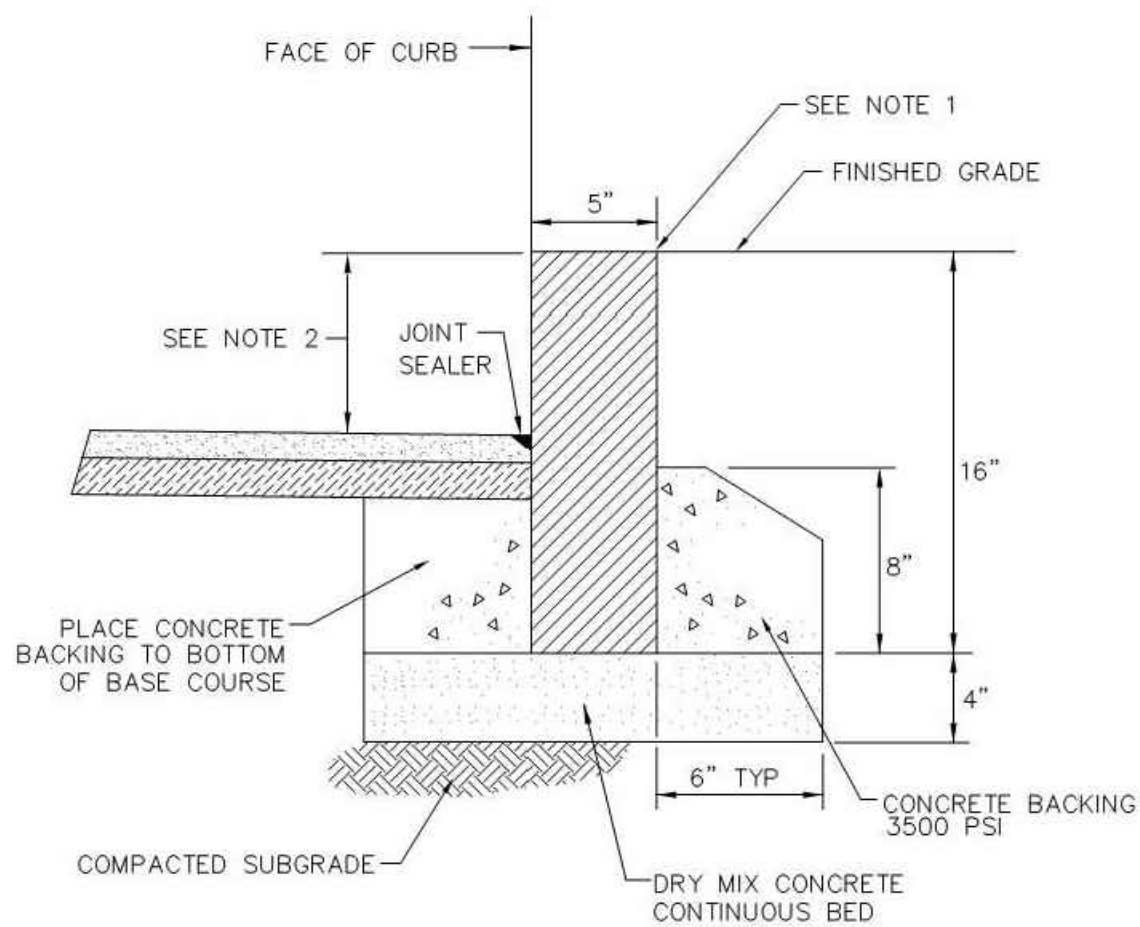
BRICK PAVER NOTES:

1. BASE MATERIALS SHALL BE PLACED IN 4" LIFTS AND COMPACTED TO 95% MAXIMUM DENSITY ACCORDING TO ASTM D-1557 (MODIFIED PROCTOR).
2. IF BEDDING SAND IS NOT USED IN ONE DAY, COVER THE PILES WITH PLASTIC OR CANVAS TO PREVENT THE SAND FROM GETTING TOO WET OR TOO DRY BASED ON WEATHER CONDITIONS.
3. ONCE PLACED, DO NOT WALK ON OR COMPACT BEDDING SAND PRIOR TO SETTING PAVERS.
4. ONCE PAVER HAVE BEEN SET, SWEEP SURFACE CLEAN OF ANY DEBRIS AND USE A PLATE COMPACTOR TO TAMP PAVERS INTO BEDDING SAND. ADJUST COMPACTOR SPEED TO USE HIGH VIBRATIONS AT A LOW AMPLITUDE IN ORDER TO AVOID A JUMPING MOTION. COMPACT IN OVERLAPPING PASSES (4"-6" OVERLAP) IN OPPOSITE (90 DEGREE) DIRECTIONS UNTIL EACH EACH PAVER HAS BEEN PASSED OVER AT LEAST 2 TO 3 TIMES.
5. SPREAD POLYMERIC SAND, OVER TAMPED PAVERS, AND SWEEP THE SAND INTO THE JOINTS WITH A SWEEPING AND SLIGHTLY POUNDING MOTION USING A STIFF BRISTLE BROOM. COMPACT IN OVERLAPPING PASSES (4"-6" OVERLAP) IN OPPOSITE (90 DEGREE) DIRECTIONS UNTIL EACH EACH PAVER HAS BEEN PASSED OVER AT LEAST 2 TO 3 TIMES. SWEEP FINISHED SURFACE TO REMOVE REMAINING EXCESS SAND.

CIVIC SPACE (PAVER) SECTION

SCALE: NONE

2



NOTES:

1. EXPANSION JOINT MATERIAL SHALL BE 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. MATCH EXISTING REVEAL FOR CURB REPLACEMENT OR RESETTING.
3. UNLESS OTHERWISE NOTED, ALL ITEMS ASSOCIATED WITH GRANITE CURB INSTALLATION SHALL BE PAID FOR UNDER ITEM 609.0201

NO SCALE



Gerald D. Jennings, Mayor
Randall J. Milano, P.E., City Engineer

CITY OF ALBANY DIVISION OF ENGINEERING
STANDARD DETAILS

DETAIL NAME:

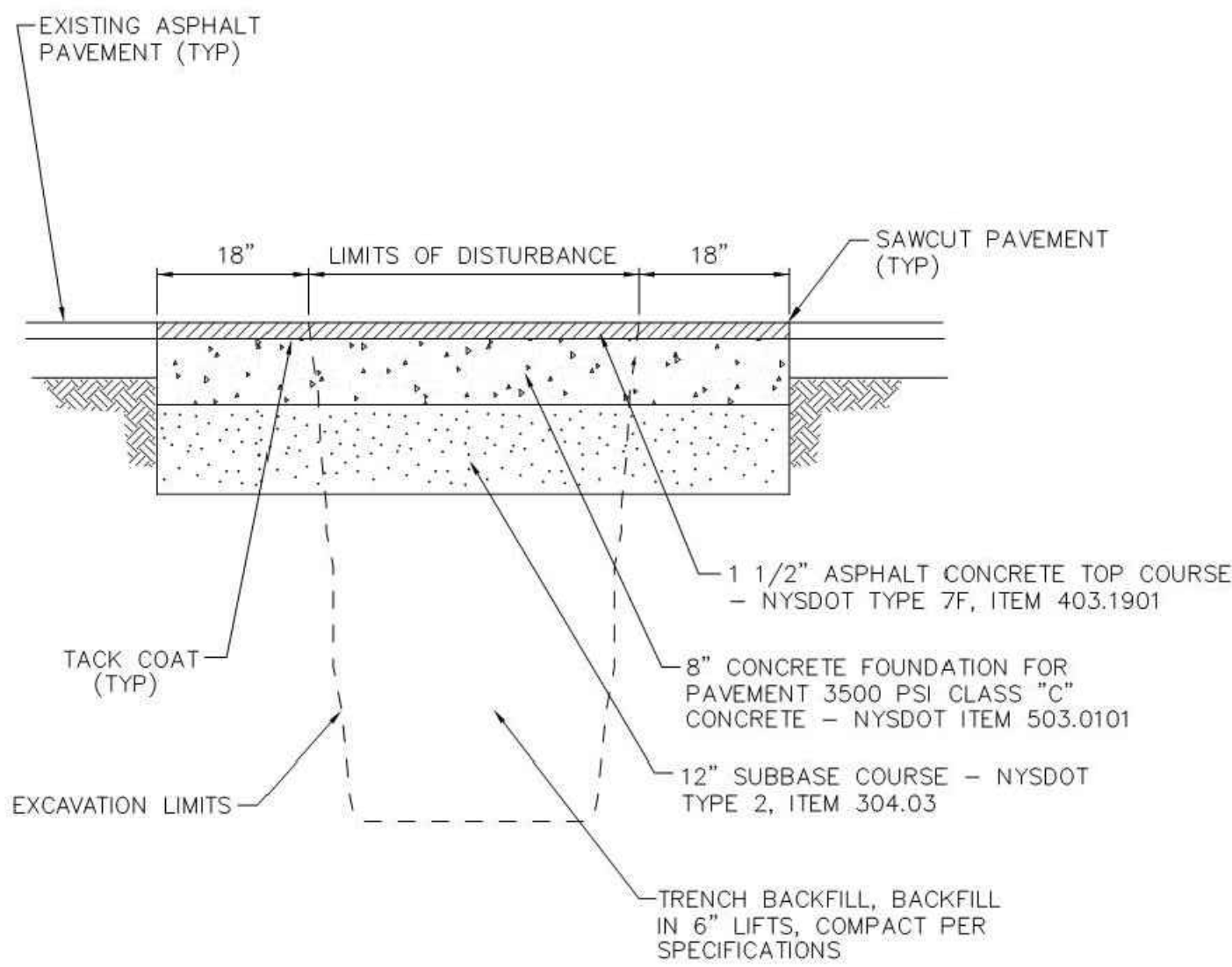
GRANITE CURB INSTALLATION
DETAIL

DETAIL No. C-1

FILE NAME: C-1.DWG

DATE ISSUED 05/01/02

REVISION DATE 06/01/10



NOTE:

1. IF LIMITS OF TRENCHING EXCEEDS 50 FEET, CONTRACTOR SHALL COMPLETE CURB TO CURB MILLING PER CITY DETAILS.
2. ALL PAVEMENT MARKINGS DISTURBED SHALL BE RESTORED TO THE SATISFACTION OF THE CITY.
3. ALL JOINTS TO BE SEALED WITH ASPHALT EMULSION (AC-20) NYSDOT ITEM 702-0500.

NO SCALE



Gerald D. Jennings, Mayor
Randall J. Milano, P.E., City Engineer

CITY OF ALBANY DIVISION OF ENGINEERING
STANDARD DETAILS

DETAIL NAME:

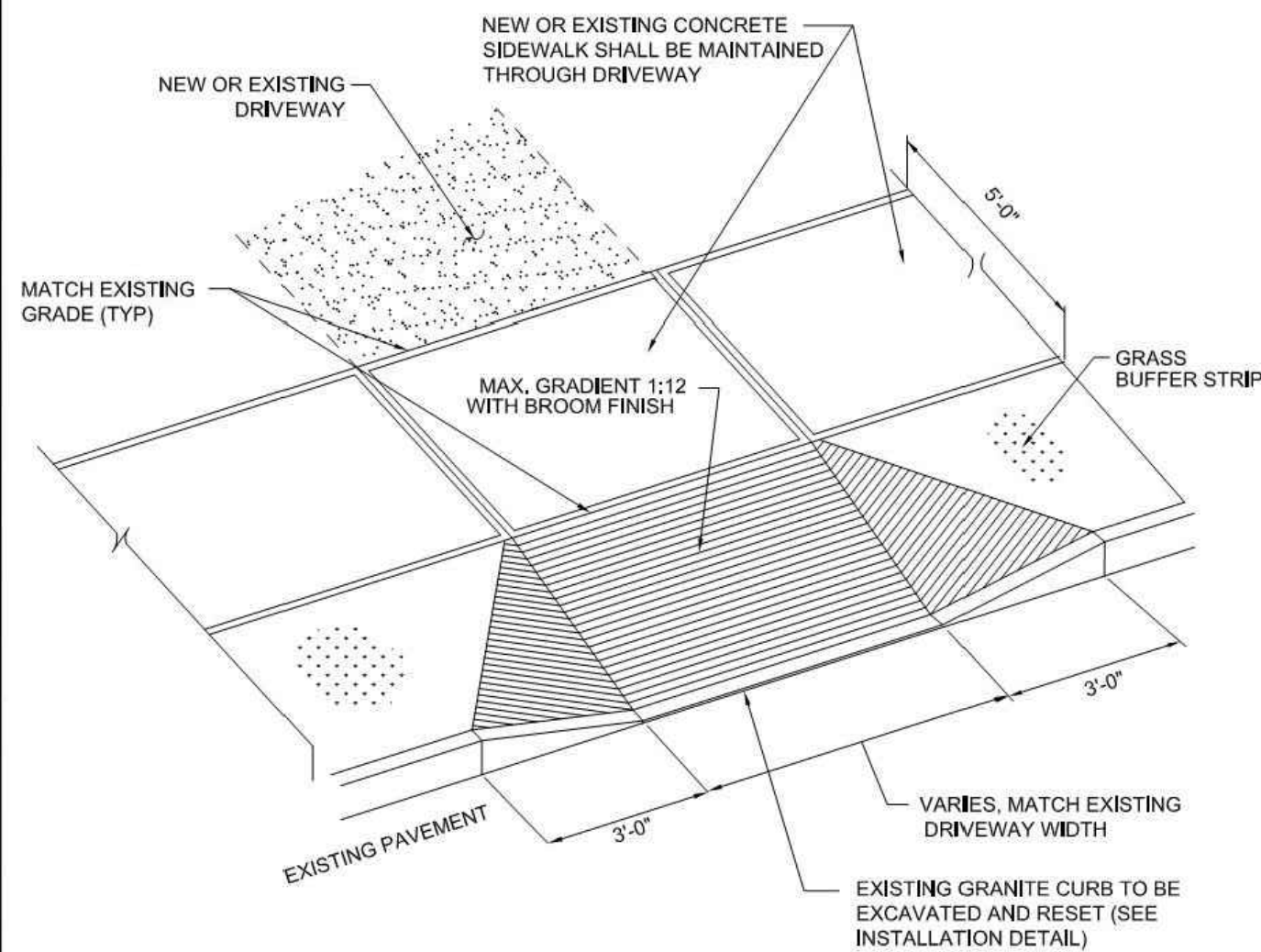
STREET RESTORATION
ASPHALT PAVEMENT DETAIL

DETAIL No. SR-1

FILE NAME: SR-1.DWG

DATE ISSUED 05/01/02

REVISION DATE 10/10/12



NOTE:

1. CURB REVEALS SHALL BE 1/2" MAX WHERE RAMP MEETS PAVEMENT AT ROADWAY.
2. INSTALL TOP SOIL TO A 6" MINIMUM DEPTH IN BUFFER STRIP.
3. SIDEWALK SHALL BE INSTALLED FLUSH WITH EXISTING DRIVEWAY.
4. SEED AND MULCH BUFFER STRIP.
5. SEE STANDARD SIDEWALK DETAIL FOR SIDEWALK INSTALLATION.

NO SCALE



Kathry M. Sheehan, Mayor
Randall J. Milano, P.E., City Engineer

CITY OF ALBANY - DIVISION OF ENGINEERING
STANDARD DETAILS

DETAIL NAME:

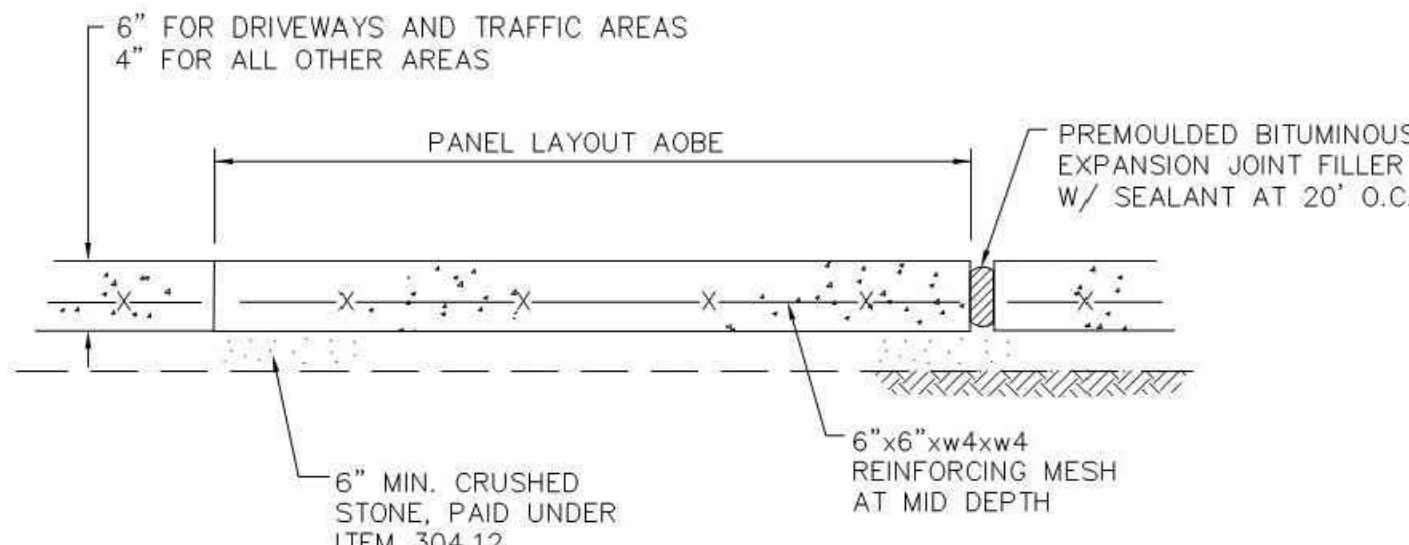
DRIVEWAY/SIDEWALK DROP CURB
WITH BUFFER STRIP DETAIL
(TYPE "C") - ASPHALT APRON

DETAIL No. DW-4

FILE NAME: DW-4.DWG

DATE ISSUED 05/01/02

REVISION DATE 02/05/14



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 SIDEWALKS SHALL BE FINISHED WITH A MAGNESIUM FLOAT FINISH UNLESS DIRECTED OTHERWISE BY THE CITY.
3. EXPANSION JOINTS TO BE PLACED BETWEEN ADJACENT SLABS, AT BUILDING LINE, AT CURBS, OR AT PENETRATING STRUCTURES.
4. UNLESS OTHERWISE NOTED, ALL ITEMS ASSOCIATED WITH SIDEWALK INSTALLATION SHALL BE PAID FOR UNDER ITEM 608.0101

NO SCALE



Gerald D. Jennings, Mayor
Randall J. Milano, P.E., City Engineer

CITY OF ALBANY DIVISION OF ENGINEERING
STANDARD DETAILS

DETAIL NAME:

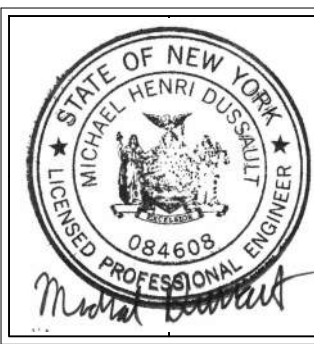
SIDEWALK INSTALLATION
DETAIL

DETAIL No. SW-1

FILE NAME: SW-1.DWG

DATE ISSUED 05/01/02

REVISION DATE 06/01/10



No.	REVISION DESCRIPTION	DATE	CONSULTANT
1	REV. PER UPDATED SURVEY	02/25/2021	C2 ARCHITECTURE, PC
2	REV. PER CITY COMMENTS	04/09/2021	
3	REV. PER CITY COMMENTS	04/30/2021	

CITY OF ALBANY STANDARD SITE DETAILS

New Construction

Hackett Boulevard Apartments

Albany, NY 12209

42 Bescho Avenue

DRAWN BY:	MJD
DATE:	2/12/2021
SCALE:	AS NOTED
JOB No.:	EV# 20483
SHEET:	C3.5

FOR REVIEW ONLY
NOT FOR CONSTRUCTION
APRIL 30, 2021