LEGEND

R.O.W.	RIGHT OF WAY		MONUMENT
No.	NUMBER		IRON ROD
enc.	ENCROACHMENT	MH	MANHOLE
P.O.B.	POINT OF BEGINNING		CATCHBASIN
S.F.	SQUARE FEET		SIGN
N/F	NOW OR FORMERLY		BOLLARD
N	NORTH		FENCE LINE
S	SOUTH		GUARD RAIL
E	EAST		OVERHEAD WIRE, UTILITY POLE & GUY WIRE
W	WEST		TRAFFIC FLOW ACCESS AREA
tel.	TELEPHONE		WATER SHUT OFF
elec.	ELECTRIC	WV	WATER VALVE
L.	LIBER		HYDRANT
P.	PAGE	GV	GAS VALVE
ST	STORM LINE		STREET LIGHT
S	SEWER LINE		LIGHT POLE
W	WATER LINE		CONCRETE
G	GAS LINE		PAVEMENT
UE	UNDERGROUND ELECTRIC		STONE
CONN	UNDERGROUND ELECTRIC		

GENERAL NOTES

1. UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S SEAL IS A VIOLATION OF SECTION 7209-2, OF THE NEW YORK STATE EDUCATION LAW.

2. ONLY COPIES FROM THE ORIGINAL OF THIS SURVEY MARKED WITH THE LAND SURVEYOR'S SIGNATURE AND AN ORIGINAL EMBOSSED OR INK SEAL SHALL BE CONSIDERED VALID TRUE COPIES.

3. THIS SURVEY WAS PREPARED FOR THE PARTIES AND PURPOSE INDICATED HEREON. ANY EXTENSION OF THE USE BEYOND THE PARTIES OR PURPOSE INDICATED IS EXPRESSLY FORBIDDEN WITHOUT WRITTEN RELEASE OR PERMISSION OF FRANCIS G. McCLOSKEY, LICENSE No. 049441.

4. SUBSURFACE AND ENVIRONMENTAL CONDITIONS WERE NOT SURVEYED OR EXAMINED OR CONSIDERED AS PART OF THIS SURVEY.

5. THIS SURVEY MAP IS SUBJECT TO WHATEVER FACTS AN ACCURATE AND CURRENT ABSTRACT OF TITLE MAY SHOW.

6. SPOT ELEVATIONS AND CONTOURS ARE BASED ON NAVD88 DATUM.

7. UNDERGROUND UTILITIES SHOWN ARE TAKEN FROM FIELD LOCATION WHERE POSSIBLE AND FROM RECORD DATA. THEIR EXACT LOCATION IN THE FIELD MAY DIFFER FROM THAT SHOWN HEREIN AND ADDITIONAL UTILITIES MAY EXIST. CALL DIG SAFELY NEW YORK AT 1-800-962-7962 TO HAVE UTILITIES MARKED ON SITE PRIOR TO COMMENCEMENT OF CONSTRUCTION.

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

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STATE OF NEW YORK · FRANCIS G. McCLOSKEY · 049441 · LICENSED PROFESSIONAL ENGINEER & LAND SURVEYOR

REMARKS	DATE
PROPOSED PROPERTY LINE	10/12/17
GENERAL REVISIONS	12/14/17
GENERAL REVISIONS	12/18/17
AND. & ENGINEERING COMMENTS	3/29/18

REVISIONS

EXISTING CONDITIONS PLAN
NORTHERN RIVERS BEHAVIOR HEALTH CENTER
PROPOSED No. 58 ACADEMY ROAD
ALBANY, NEW YORK

F.G.E. 7/12/16 | SCALE: 1"=30' | BY: M.W. | CHK: DBH | DATE: 3/14/17 | 170216-13840

C1

DEMOLITION NOTES

1. COORDINATE ALL REMOVALS WITH CONSTRUCTION SCHEDULE AND OWNER. MAINTAIN OPERATION OF EXISTING FACILITY THROUGHOUT CONSTRUCTION

2. PRIOR TO DEMOLITION IDENTIFY AND PROTECT ALL TREES TO REMAIN.

3. ALL EXISTING WATER SERVICES AND SEWER LATERALS SHALL BE ABANDONED IN ACCORDANCE WITH THE CITY OF ALBANY. REMOVE, PLUG AND CAP AS REQUIRED BY THE CITY OF ALBANY. REPAIR SIDEWALKS AND PAVEMENT IN CITY'S R.O.W. (6/C9 & 5/C10)

4. VERIFY ALL UTILITIES WHICH HAVE BEEN ABANDONED ARE NOT ACTIVE. RECONNECT ANY ACTIVE UTILITY LINES FOUND.

5. ALL EXISTING BUILDINGS TO BE DEMOLISHED SHALL HAVE THE FOUNDATIONS REMOVED IN THEIR ENTIRETY.

6. PROVIDE DUST CONTROL IN ACCORDANCE WITH NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL.

7. ALL HAZARDOUS MATERIALS MUST BE REMOVED IN ACCORDANCE WITH NYSDEC OR OTHER APPLICABLE AGENCIES.

LEGEND

R.O.W.	RIGHT OF WAY		MONUMENT
No.	NUMBER		IRON ROD
enc.	ENCROACHMENT	MH	MANHOLE
P.O.B.	POINT OF BEGINNING		CATCHBASIN
S.F.	SQUARE FEET		SIGN
N/F	NOW OR FORMERLY		BOLLARD
N	NORTH		FENCE LINE
S	SOUTH		GUARD RAIL
E	EAST		OVERHEAD WIRE, UTILITY POLE & GUY WIRE
W	WEST		TRAFFIC FLOW ACCESS AREA
tel.	TELEPHONE		WATER SHUT OFF
elec.	ELECTRIC	WV	WATER VALVE
L.	LIBER		HYDRANT
P.	PAGE	GV	GAS VALVE
ST	STORM LINE		STREET LIGHT
S	SEWER LINE		LIGHT POLE
W	WATER LINE		CONCRETE
G	GAS LINE		PAVEMENT
UE	UNDERGROUND ELECTRIC		STONE
CONE	UNDERGROUND ELECTRIC		

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REVISIONS		
REMARKS	DATE	
PROPOSED PROPERTY LINE	10/12/17	
GENERAL REVISIONS	12/14/17	
GENERAL REVISIONS	12/18/17	
LAND & ENGINEERING COMMENTS	3/29/18	

REMARKS	DATE	REMARKS	DATE	REMARKS	DATE

DEMOLITION PLAN
NORTHERN RIVERS BEHAVIOR HEALTH CENTER
PROPOSED No. 58 ACADEMY ROAD
ALBANY, NEW YORK

FILE: 170218 | SCALE: 1"=30' | DR: MLW | CHK: DRH | DATE: 9/14/17 | 170218-1.DWG

C2

GEOTECHNICAL RECOMMENDATIONS

1. ALL EXISTING FILLS SHOULD BE REMOVED AND REPLACED BENEATH NEW BUILDING AREA. CONSIDERATION CAN BE GIVEN TO LEAVING THE FILLS IN PLACE BENEATH PAVEMENTS PROVIDED THAT THE SURFACES ARE PROOF-ROLLED AND COMPACTED. THIS ALTERNATIVE ACCEPTS SOME RISK THAT SETTLEMENT MAY OCCUR AND REQUIRE MAINTENANCE.

2. THE NEW BUILDINGS MAY BE SUPPORTED USING ORDINARY SPREAD FOUNDATIONS BEARING UPON THE UNDISTURBED NATIVE SOILS OR ON STRUCTURAL FILL PLACED TO ESTABLISH DESIGN GRADES.

3. LAYERS OF TRAPPED OR PERCHED GROUNDWATER MAY BE ENCOUNTERED IN THE FILL OR ON TOP OF THE NATURAL SOIL DURING WET PERIODS. SUMP PUMPS, PERIMETER DRAILES AND OR UNDERDRAINS SHOULD BE PROVIDED ALONG AND BENEATH PAVEMENTS, AND FOUNDATION DRAINS ALONG THE SIDES OF THE PERIMETER BUILDING FOUNDATIONS.

4. SITE PREPARATION SHOULD PREFERABLY BE DONE DURING A SEASONAL DRY PERIOD TO REDUCE THE ADVERSE IMPACTS OF SOFT AND/OR WET SOILS AND ESTABLISH A STABLE BASE FOR CONSTRUCTION. A CONTINGENCY SHOULD BE CARRIED IN THE PROJECT BUDJET FOR UNDERCUTING AND REPLACEMENT OF SOFT AND/OR WET SUBGRDE SOILS.

5. THE ON-SITE SOILS, IN SOME AREAS AND AT CERTAIN DEPTHS, CONTAIN APPRECIABLE AMOUNTS OF SILT, AND THEY WILL BE VERY SENSITIVE TO CONSTRUCTION ACTIVITIES AND EVEN SLIGHT VARIATIONS IN MOISTURE CONTENT.

NOTE

1. A GEOTECHNICAL ENGINEER SHOULD BE ON SITE DURING DURING THE EARTHWORK AND FOUNDATION PHASES. REPORTS DURING CONSTRUCTION SHALL BE FORWARDED TO THE CITY OF ALBANY DEPARTMENT OF ENGINEERING.

CITY OF ALBANY NOTES

SITE REQUIREMENTS:

THE CONTRACTOR WILL BE RESPONSIBLE FOR THE FOLLOWING.

THE REMOVAL AND REPLACING OF ALL EXISTING SIDEWALKS, CURBS, STREET PAVEMENT, TREES, BRICK PAVERS, AND SHRUBBERY DAMAGED DURING THE COURSE OF THIS PROJECT AND WITHIN THE FULL LIMITATIONS OF THE PROJECT.

IT WILL BE THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT ALL METHODS AVAILABLE HAVE BEEN TAKEN TO PROTECT ALL THE AFOREMENTIONED ENTITIES BEFORE CONSTRUCTION WORK BEGINS.

IF AT ANY TIME DURING SAID CONSTRUCTION, THE CITY ENGINEER OR HIS REPRESENTATIVE DEEM THAT ANY AND/OR ALL PORTIONS OF SIDEWALK, CURB PAVEMENT AND/OR ANY OTHER APPURTENANCES HAVE BEEN DAMAGED BY EITHER THE GENERAL CONTRACTOR OR ANY OF HIS SUB-CONTRACTORS, IT WILL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO MAKE ALL REPAIRS AND/OR CORRECTIONS TO SAID AREAS WITHOUT ANY COST TO THE CITY OF ALBANY.

PERMIT REQUIREMENTS:

THE GENERAL CONTRACTOR, PRIOR TO BEGINNING ANY WORK ON SAID PROJECT, WILL PROCURE THE FOLLOWING PERMITS WHERE APPLICABLE:

*ENGINEERING DEPARTMENT	*DEPARTMENT OF GENERAL SERVICES
*GRADING AND MINING	*CURB CUT APPLICATION
*SANITARY AND STORM SEWER	*SIDEWALK CONSTRUCTION
*RETAINING WALL	*STREET RESTORATION
*WATER DEPARTMENT	*WATER SERVICE

THE CONTRACTOR WILL PROCURE BEFORE BEGINNING OF CONSTRUCTION ALL REQUIRED PERMITS LIABILITY INSURANCE FOR $1,000,000.00 AND A PERFORMANCE BOND AS ASSESSED BY CITY ENGINEER. BOND AND LIABILITY INSURANCE TO BE SUBMITTED TO THE ENGINEERING DEPARTMENT BEFORE THE GENERAL CONTRACTOR INTENDS TO BEGIN ANY SITE EXCAVATION.

THE CONTRACTOR WILL NOTIFY THE ENGINEERING DEPARTMENT FORTY-EIGHT (48) HOURS PRIOR TO PERFORMING ALL UTILITY OR SITE RESTORATION WORK. FAILURE TO NOTIFY THE ENGINEERING DEPARTMENT BEFORE BEGINNING WORK COULD RESULT IN A ONE HUNDRED DOLLAR ($100.00) FINE FOR EACH DAY THE OFFENSE OCCURS.

THE CONTRACTOR WILL NOTIFY THE DEPARTMENT OF WATER AND WATER SUPPLY FORTY-EIGHT (48) HOURS PRIOR TO SCHEDULE AN INSPECTION FOR WATER, SANITARY AND STORM UTILITY WORK.

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

VICINITY MAP

MAP NOT TO SCALE

EXISTING LEGEND

R.O.W.	RIGHT OF WAY		MONUMENT
No.	NUMBER		IRON ROD
enc.	ENCROACHMENT	MH	MANHOLE
P.O.B.	POINT OF BEGINNING		CATCHBASIN
S.F.	SQUARE FEET		SIGN
N/F	NOW OR FORMERLY		BOLLARD
N	NORTH		FENCE LINE
S	SOUTH		GUARD RAIL
E	EAST		OVERHEAD WIRE, UTILITY POLE & GUY WIRE
W	WEST		TRAFFIC FLOW ACCESS AREA
tel.	TELEPHONE	WV	WATER SHUT OFF
elec.	ELECTRIC	WV	WATER VALVE
L.	LIBER		HYDRANT
P.	PAGE	GV	GAS VALVE
225	EXISTING CONTOUR		STREET LIGHT
ST	STORM LINE		LIGHT POLE
S	SEWER LINE		CONCRETE
W	WATER LINE		PAVEMENT
G	GAS LINE		STONE
UE	UNDERGROUND ELECTRIC		
UGE	UNDERGROUND ELECTRIC		

PROPOSED LEGEND

231	PROPOSED CONTOUR
	PROPOSED CHECK DAMS
SS	PROPOSED SANITARY SEWER
W	PROPOSED WATER SERVICE
FM	PROPOSED FORCE MAIN
ST	PROPOSED STORM SEWER
	PROPOSED CONCRETE CURB
	PROPOSED HYDRANT
	PROPOSED PAVEMENT & STRIPING
	PROPOSED CONCRETE WALK
	PROPOSED ASPHALT WALK

ZONING INFORMATION

MU-CI DISTRICT (MIXED-USE CAMPUS/INSTITUTIONAL)

MIN. FRONT YARD	N/A
MAX. FRONT YARD	20 FEET
MIN. SIDE YARD	0 FEET
MIN. REAR YARD	0 FEET ADJACENT TO 'R' DISTRICT MIN. 15'
MAX. HEIGHT, PRINCIPAL BLDG	8 1/2 STORIES*
MAX. HEIGHT, ACCESSORY BLDG	1 1/2 STORIES
MAX. LOT COVERAGE	60%

* ANY PORTION OF A BUILDING LOCATED WITH 50 FEET OF ANY ABUTTING R-1M DISTRICT IS LIMITED TO 3 STORIES.

ZONING INFORMATION ADOPTED FROM:
CITY OF ALBANY
UNIFIED SUSTAINABLE DEVELOPMENT ORDINANCE
APRIL 2017
PH. (518) 434-5190

PARKING TABLE (WITHIN PROPOSED No. 58 ACADEMY ROAD ONLY)

PARKING SPACES PRE-CONSTRUCTION	3
PARKING SPACES POST-CONSTRUCTION	39

SITE COVERAGE STATISTICS No. 58 ACADEMY ROAD EXISTING

description	s.f.	acres	%
gross site area	101,128	2.32	100.00
impervious area	12,046	0.28	11.91
building coverage	7,884	0.18	7.80
pervious area	89,082	2.05	88.09
pavement/sidewalk coverage	4,162	0.10	4.12

SITE COVERAGE STATISTICS No. 58 ACADEMY ROAD PROPOSED

description	s.f.	acres	%
gross site area	101,128	2.32	100.00
impervious area	58,701	1.35	58.05
building coverage	26,892	0.62	26.59
pervious area	42,427	0.97	41.95
pavement/sidewalk coverage	31,809	0.73	31.45

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REVISIONS			
REMARKS	DATE	REMARKS	DATE
PROPOSED PROPERTY LINE	10/12/17		
GENERAL REVISIONS	12/14/17		
GENERAL REVISIONS	12/18/17		
TWD & ENGINEERING COMMENTS	3/29/18		

SITE PLAN
NORTHERN RIVERS BEHAVIOR HEALTH CENTER
PROPOSED No. 58 ACADEMY ROAD
ALBANY, NEW YORK

FILE: 170016 | SCALE: 1"=30' | DR: MLB | CHK: DRH | DATE: 9/14/17 | 170016-1.DWG

C3

NOTES

1. 48 HOURS NOTICE MUST BE GIVEN TO DEPARTMENT OF WATER FOR INSPECTIONS FOR THE SANITARY, WATER AND STORMWATER UTILITIES.

2. PRESSURE AND LEAKAGE TESTING OF THE WATER MAIN SHALL BE WITNESSED BY DEPARTMENT STAFF AND ACCEPTABLE BACTERIOLOGICAL TEST MUST BE SUBMITTED AND ACCEPTED BY THE DEPARTMENT PRIOR TO FINAL OF THE NEW WATER MAIN.

3. KNOX BOX FOR PROPOSED BUILDING WILL BE LOCATED AT BUILDING ENTRANCE.

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

VICINITY MAP

MAP NOT TO SCALE

EXISTING LEGEND

R.O.W.	RIGHT OF WAY		MONUMENT
No.	NUMBER		IRON ROD
enc.	ENCROACHMENT		MANHOLE
P.O.B.	POINT OF BEGINNING		CATCHBASIN
S.F.	SQUARE FEET		SIGN
N/F	NOW OR FORMERLY		BOLLARD
N	NORTH		FENCE LINE
S	SOUTH		GUARD RAIL
E	EAST		OVERHEAD WIRE, UTILITY POLE & GUY WIRE
W	WEST		TRAFFIC FLOW ACCESS AREA
tel.	TELEPHONE		WATER SHUT OFF
elec.	ELECTRIC		WATER VALVE
L.	LIBER		HYDRANT
P.	PAGE		GAS VALVE
225	EXISTING CONTOUR		STREET LIGHT
S	STORM LINE		LIGHT POLE
S	SEWER LINE		CONCRETE
W	WATER LINE		PAVEMENT
G	GAS LINE		STONE
UE	UNDERGROUND ELECTRIC		
UGE	UNDERGROUND ELECTRIC		

PROPOSED LEGEND

231	PROPOSED CONTOUR
	PROPOSED CHECK DAMS
SS	PROPOSED SANITARY SEWER
WS	PROPOSED WATER SERVICE
FM	PROPOSED FORCE MAIN
ST	PROPOSED STORM SEWER
	PROPOSED CONCRETE CURB
	PROPOSED HYDRANT
	PROPOSED PAVEMENT & STRIPING
	PROPOSED CONCRETE WALK
	PROPOSED ASPHALT WALK

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REVISIONS					
REMARKS	DATE	REMARKS	DATE	REMARKS	DATE
AHD. & ENGINEERING COMMENTS	3/29/18				

UTILITY PLAN
NORTHERN RIVERS BEHAVIOR HEALTH CENTER
PROPOSED No. 58 ACADEMY ROAD
ALBANY, NEW YORK

FILE: 170216 | SCALE: 1"=30' | DR: MLW | CHK: RHH | DATE: 2/27/18 | 170216-1.DWG

C4

EXISTING LEGEND

R.O.W.	RIGHT OF WAY		MONUMENT
No.	NUMBER		IRON ROD
enc.	ENCROACHMENT		MANHOLE
P.O.B.	POINT OF BEGINNING		CATCHBASIN
S.F.	SQUARE FEET		SIGN
N/F	NOW OR FORMERLY		BOLLARD
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S	SOUTH		GUARD RAIL
E	EAST		OVERHEAD WIRE, UTILITY POLE & GUY WIRE
W	WEST		TRAFFIC FLOW ACCESS AREA
tel.	TELEPHONE		WATER SHUT OFF
elec.	ELECTRIC	WV	WATER VALVE
L.	LIBER		HYDRANT
P.	PAGE	GV	GAS VALVE
231	EXISTING CONTOUR		STREET LIGHT
ST	STORM LINE		LIGHT POLE
S	SEWER LINE		CONCRETE
W	WATER LINE		PAVEMENT
G	GAS LINE		STONE
UE	UNDERGROUND ELECTRIC		
OHW	UNDERGROUND ELECTRIC		

PROPOSED LEGEND

- PROPOSED CONTOUR
- PROPOSED CHECK DAMS
- PROPOSED SANITARY SEWER
- PROPOSED WATER SERVICE
- PROPOSED FORCE MAIN
- PROPOSED STORM SEWER
- PROPOSED CONCRETE CURB
- PROPOSED HYDRANT
- PROPOSED PAVEMENT & STRIPING
- PROPOSED CONCRETE WALK
- PROPOSED ASPHALT WALK

UTILITY PLAN

SCALE: 1"=30'

SANITARY SEWER PROFILE

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

WATER SERVICE PROFILE

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

STORM SEWER PROFILE

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

NOTES

1. 48 HOURS NOTICE MUST BE GIVEN TO DEPARTMENT OF WATER FOR INSPECTIONS FOR THE SANITARY, WATER AND STORMWATER UTILITIES.

2. PRESSURE AND LEAKAGE TESTING OF THE WATER MAIN SHALL BE WITNESSED BY DEPARTMENT STAFF AND ACCEPTABLE BACTERIOLOGICAL TEST MUST BE SUBMITTED AND ACCEPTED BY THE DEPARTMENT PRIOR TO FINAL OF THE NEW WATER MAIN.

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REMARKS	DATE
AND & ENGINEERING COMMENTS	3/29/18

REVISIONS

UTILITY PROFILES
NORTHERN RIVERS BEHAVIOR HEALTH CENTER
PROPOSED No. 58 ACADEMY ROAD
ALBANY, NEW YORK

FILE: 170216 | SCALE: AS NOTED | DR: MLW | CH: DRH | DATE: 2/27/18 | 170216-1.DWG

C5

ESC LEGEND

- SILT FENCE
- 201 — TEMPORARY SEDIMENT CONTROL TRAP CONTOURS
- TEMPORARY PERIMETER SWALE
- DROP INLET PROTECTION
- CONSTRUCTION STAGING AND STOCKPILE AREAS
- VEHICLE FUELING AREA

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

EXISTING LEGEND

R.O.W.	RIGHT OF WAY		MONUMENT
No.	NUMBER		IRON ROD
enc.	ENCROACHMENT		MANHOLE
P.O.B.	POINT OF BEGINNING		CATCHBASIN
S.F.	SQUARE FEET		SIGN
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W	WEST		TRAFFIC FLOW ACCESS AREA
tel.	TELEPHONE		WATER SHUT OFF
elec.	ELECTRIC		WATER VALVE
L.	LIBER		HYDRANT
P.	PAGE		GAS VALVE
203	EXISTING CONTOUR		STREET LIGHT
ST	STORM LINE		LIGHT POLE
S	SEWER LINE		CONCRETE
W	WATER LINE		PAVEMENT
G	GAS LINE		STONE
UE	UNDERGROUND ELECTRIC		
CON	UNDERGROUND ELECTRIC		

PROPOSED LEGEND

- 203 — PROPOSED CONTOUR
- PROPOSED CHECK DAMS
- PROPOSED SANITARY SEWER
- PROPOSED WATER SERVICE
- PROPOSED FORCE MAIN
- PROPOSED STORM SEWER
- PROPOSED CONCRETE CURB
- PROPOSED HYDRANT
- PROPOSED PAVEMENT & STRIPING
- PROPOSED CONCRETE WALK
- PROPOSED ASPHALT WALK

VICINITY MAP

MAP NOT TO SCALE

CONSTRUCTION SEQUENCING & SEDIMENTATION AND EROSION CONTROL DURING CONSTRUCTION

The construction sequence for this project will be governed by the erosion and sediment control plan. Approximate timing is indicated where applicable in red following steps.

Prior to commencement of any work this SWPPP

- ✓ Assure that copy of SWMR & SWPPP is on the site. **ON COMMENCEMENT**
- ✓ Establish Qualified Individual who will be performing site inspection. **ON COMMENCEMENT**
- ✓ SWPPP Inspections must be performed by the qualified professional must be submitted to the MS4 Coordinator. **From Commencement until filing the Notice of Termination.**
- ✓ Establish Trained Contractor who will be on site. At least one Trained Contractor must be on site whenever ground disturbing activities are being undertaken. **ON COMMENCEMENT**
- ✓ Establish contact person for Contractor/Subcontractor. **ON COMMENCEMENT**
- ✓ **IN CASE OF ANY SPILLS OF MATERIALS ON SITE, EXECUTE SPILL RESPONSE PLAN CONTAINED IN APPENDIX #9**

Construction Sequence

- ✓ Commence work on site. **WITHIN 10 DAYS OF PRE-CONSTRUCTION MEETING**
- ✓ Install silt fence or other controls as indicated on the plan. **PRIOR TO COMMENCEMENT OF ANY GRADING – FENCE TO REMAIN IN PLACE UNTIL ALL AREAS ARE STABILIZED.**
- ✓ Grade and prepare construction access. **PRIOR TO COMMENCEMENT OF ANY GRADING – CONSTRUCTION ACCESS TO REMAIN IN PLACE UNTIL ALL AREAS ARE STABILIZED.**
- ✓ Commence installation of the temporary sediment trap, interception swale, drop inlet protection, and portion of storm sewer. **PRIOR TO BUILDING EXCAVATION.**
- ✓ The existing pavement must be kept swept clean to avoid tracking materials onto any streets. **CONTINUOUSLY FROM INCEPTION TO COMPLETION OF STABILIZATION OR FILING OF NOTICE OF TERMINATION.**
- ✓ Maintain this area clean of debris and verify condition and safety of storage of materials listed below. Requires daily inspection. **CONTINUOUSLY FROM INCEPTION TO FILING OF NOTICE OF TERMINATION.**
- ✓ Any construction materials, chemicals or construction debris must be stored in sealed receptacles, trailers or buildings. Any storage piles of materials meant for installation (i.e., sand, etc.) must be surrounded by sedimentation fence. The list of anticipated materials stored on site during construction is provided below and must be updated if any additional materials are utilized: **CONTINUOUSLY FROM INCEPTION TO FILING OF NOTICE OF TERMINATION.**
  - Select Fill
  - Rip-rap
  - Fencing Materials
  - Concrete Structures
  - Pipes
  - Pipe Solvents
  - Concrete for building
  - Roofing Materials for Building
  - Metal Materials for Building
  - Building Materials for Building
- ✓ MSDS sheets must be available on site for all materials used or imported to the site. **CONTINUOUSLY FROM INCEPTION TO FILING OF NOTICE OF TERMINATION.**
- ✓ Any chemical spills must be contained immediately on site and reported to NYSDEC. **CONTINUOUSLY FROM INCEPTION TO FILING OF NOTICE OF TERMINATION.**
- ✓ Oil and grease spills from equipment shall be treated immediately. **CONTINUOUSLY FROM INCEPTION TO FILING OF NOTICE OF TERMINATION.**
- ✓ Commence installation of the temporary sediment trap and interception swale. **PRIOR TO GRADING.**
- ✓ Clean interception swale and sediment trap as required. **CONTINUOUSLY FROM INSTALLATION UNTIL FILING OF NOTICE OF TERMINATION.**
- ✓ Install building, place pavement and prepare lawns and planters. **PRIOR TO FILING OF NOTICE OF TERMINATION.**
- ✓ Install Hydrodynamic Separator and connect to discharge pipe**. UPON REACHING SUBSTANTIAL COMPLETION**
- ✓ Clean any downstream structures of any accumulated silt. **PRIOR TO FILING OF** NOTICE OF TERMINATION.
- ✓ Fine grade landscape beds. PRIOR TO FILING OF NOTICE OF TERMINATION.
- ✓ Place landscape materials. PRIOR TO FILING OF NOTICE OF TERMINATION.
- ✓ Seed and mulch. PRIOR TO FILING OF NOTICE OF TERMINATION.
- ✓ Obtain approval on Notice of Termination from MS4 coordinator after site has achieved >80% grass cover.. PRIOR TO FILING OF NOTICE OF TERMINATION.
- ✓ File NOTICE OF TERMINATION.

HOUSEKEEPING SECTION

During construction any construction materials, chemicals or construction debris must be stored in sealed receptacles, trailers or buildings. Any storage piles of materials meant for installation (i.e., sand, etc.) must be surrounded by sedimentation fence. The list of anticipated materials stored on site during construction is provided below and must be updated if any additional materials are utilized:

- Select Fill
- Rip-rap
- Fencing Materials
- Concrete Structures
- Pipes
- Pipe Solvents
- Concrete for building
- Roofing Materials for Building
- Building Materials for Building

MSDS sheets must be available on site for all materials used or imported to the site.

Any chemical spills must be contained immediately on site and reported to NYSDEC.

IN CASE OF ANY SPILLS OF MATERIALS ON SITE, EXECUTE SPILL RESPONSE PLAN CONTAINED IN APPENDIX #8

Oil and grease spills from equipment shall be treated immediately. Vehicle fueling must take place in designated area. Relocate designated fueling area when required. A concrete truck washout must be provided and used by all trucks washing out concrete. Pit must be maintained and pumped out regularly.

After construction, materials and chemicals must be stored in sealed receptacles or in buildings. Daily inspection by trained individual shall be made by staff to ensure that materials listed below are properly stored. The list of anticipated materials stored on site after occupancy of the building and solar farm is provided below and must be updated if any additional materials are utilized:

- Cleaning Materials for Building

MSDS sheets must be available on site for all materials utilized for used or imported to the site. Any chemical spills must be contained immediately on site and reported to NYSDEC. Oil and grease spills from equipment shall be treated immediately.

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

REVISIONS			
REMARKS AND ENGINEERING COMMENTS	DATE	REMARKS	DATE	REMARKS	DATE	REMARKS
	3/29/18					

EROSION AND SEDIMENT CONTROL PLAN
NORTHERN RIVERS BEHAVIOR HEALTH CENTER
PROPOSED No. 58 ACADEMY ROAD
ALBANY, NEW YORK

F.I.E.D. 1/12/18	SCALE: 1"=30'	BY: M.W.	Proj: 1994	DATE: 3/14/17	1/12/18 - 1/29/18

C6

PLANT MATERIAL SCHEDULE

SYM	BOTANICAL NAME	COMMON NAME	SIZE	AMT	COMMENTS
		TREES			
CG	CRATAEGUS CRUSGALLI VAR. INERMIS	THORNLESS COCKSPUR HAWTHORN	2"–2 1/2" CAL.	4	B & B
GS	GLEDITSIA TRIACANTHOS INERMIS 'SUNBURST'	SUNBURST HONEY–LOCUST	2 1/2"–3" CAL.	6	B & B
AB	ABIES CONCOLOR	WHITE FIR	5'–6' HT.	4	B & B

SEEDING AND MULCHING NOTES:

A. FOR AREAS TO BE TREATED AFTER GRADING
1. SEED AREAS AFTER GRADING AT PROPER SEASON.
2. UTILIZE A SEED MIX OF 70% HARD FESCUE, 20% PERENNIAL RYEGRASS, 10% KENTUCKY BLUE (NASSAU OR CHALLENGER). APPLY AT 4 LBS. PER 1000 S.F.
3. TREAT AREAS WITH FIBER MULCH.

B. FOR SEDIMENTATION BASIN AND TREATMENT BASIN
1. UTILIZE A SEED MIX OF 55% CLEMFINE TALL FESCUE, 15% NASSAU KENTUCKY BLUEGRASS, 10% PALMER PERENNIAL RYEGRASS, 10% SABRE OR LASER POA TRIVIALIS, 5% STREAKER REDTOP AND 5% REED CANARY GRASS. APPLY AT 5 LBS. PER 1000 S.F.
2. SOIL TO BE USED WITHIN BASINS SHALL BE A SANDY LOAM TOPSOIL.

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

FINISH TO BE SELECTED BY OWNER
SUBMIT SHOP DRAWINGS FOR APPROVAL

BICYCLE LOOP RACK DETAIL

NOT TO SCALE

VICINITY MAP

MAP NOT TO SCALE

EXISTING LEGEND

R.O.W.	RIGHT OF WAY		MONUMENT
No.	NUMBER		IRON ROD
enc.	ENCROACHMENT	MH	MANHOLE
P.O.B.	POINT OF BEGINNING		CATCHBASIN
S.F.	SQUARE FEET		SIGN
N/F	NOW OR FORMERLY		BOLLARD
N	NORTH		FENCE LINE
S	SOUTH		GUARD RAIL
E	EAST		OVERHEAD WIRE, UTILITY POLE & GUY WIRE
W	WEST		TRAFFIC FLOW ACCESS AREA
tel.	TELEPHONE		WATER SHUT OFF
elec.	ELECTRIC	WV	WATER VALVE
L.	LIBER		HYDRANT
P.	PAGE	GV	GAS VALVE
231	EXISTING CONTOUR		STREET LIGHT
S1	STORM LINE		LIGHT POLE
S	SEWER LINE		CONCRETE
W	WATER LINE		PAVEMENT
G	GAS LINE		STONE
UE	UNDERGROUND ELECTRIC		
UGE	UNDERGROUND ELECTRIC		

PROPOSED LEGEND

231	PROPOSED CONTOUR
	PROPOSED CHECK DAMS
S	PROPOSED SANITARY SEWER
W	PROPOSED WATER SERVICE
FM	PROPOSED FORCE MAIN
S1	PROPOSED STORM SEWER
	PROPOSED CONCRETE CURB
	PROPOSED HYDRANT
	PROPOSED PAVEMENT & STRIPING
	PROPOSED CONCRETE WALK
	PROPOSED ASPHALT WALK

TREE PLANTING DETAIL

NOT TO SCALE

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REVISIONS			
	REMARKS	DATE	
	REMARKS	DATE	
	REMARKS	DATE	
	REMARKS	DATE	
A.W.D. & ENGINEERING COMMENTS		3/29/18	

LANDSCAPING PLAN
NORTHERN RIVERS BEHAVIOR HEALTH CENTER
PROPOSED No. 58 ACADEMY ROAD
ALBANY, NEW YORK

FILE: 170016 | SCALE: 1"=30' | BY: MLB | DWG: DRH | DATE: 9/14/17 | 170016-1.DWG

C7

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

NOTES

1. FIXTURE TYPES SL1, SL12 AND SL2 ARE SHOWN POLE MOUNTED AT 18' ABOVE FINISHED GRADE (16' POLE, 2' ABOVE GRADE BASE).

LUMINAIRE SCHEDULE

Symbol	Label	Qty	Catalog Number	Description	Lamp	File	Lumens	LLF	Watts
	SL1	1	LITHONIA: DSX0 LED P6 40K T4M MVOLT SPA DDBXD SSS 25 4C DM19AS DDB	DSX0 LED P6 40K T4M MVOLT	LED	DSX0_LED_P6_40K_T4M_MVOLT.ies	Absolute	0.90	89
	SL12	4	LITHONIA: DSX0 LED P6 40K T4M MVOLT SPA DDBXD SSS 25 4C DM28AS DDB	DSX0 LED P6 40K T4M MVOLT	LED	DSX0_LED_P6_40K_T4M_MVOLT.ies	Absolute	0.90	178
	C1	1	LITHONIA: DSX0 LED P6 40K T2M MVOLT SPA DDBXD SSS 25 4C DM19AS DDB	DSX0 LED P6 40K T2M MVOLT	LED	DSX0_LED_P6_40K_T2M_MVOLT.ies	Absolute	0.90	89

VICINITY MAP

MAP NOT TO SCALE

EXISTING LEGEND

R.O.W.	RIGHT OF WAY		MONUMENT
No.	NUMBER		IRON ROD
enc.	ENCROACHMENT	MH	MANHOLE
P.O.B.	POINT OF BEGINNING		CATCHBASIN
S.F.	SQUARE FEET		SIGN
N/F	NOW OR FORMERLY		BOLLARD
N	NORTH		FENCE LINE
S	SOUTH		GUARD RAIL
E	EAST		OVERHEAD WIRE, UTILITY POLE & GUY WIRE
W	WEST		TRAFFIC FLOW ACCESS AREA
tel.	TELEPHONE		WATER SHUT OFF
elec.	ELECTRIC	WV	WATER VALVE
L.	LIBER		HYDRANT
P.	PAGE	GV	GAS VALVE
231	EXISTING CONTOUR		STREET LIGHT
ST	STORM LINE		LIGHT POLE
S	SEWER LINE		CONCRETE
W	WATER LINE		PAVEMENT
G	GAS LINE		STONE
UE	UNDERGROUND ELECTRIC		
UTM	UNDERGROUND ELECTRIC		

PROPOSED LEGEND

231	PROPOSED CONTOUR
	PROPOSED CHECK DAMS
S	PROPOSED SANITARY SEWER
W	PROPOSED WATER SERVICE
FM	PROPOSED FORCE MAIN
ST	PROPOSED STORM SEWER
	PROPOSED CONCRETE CURB
	PROPOSED HYDRANT
	PROPOSED PAVEMENT & STRIPING
	PROPOSED CONCRETE WALK
	PROPOSED ASPHALT WALK

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REVISIONS													
REMARKS	DATE	REMARKS	DATE	REMARKS	DATE	REMARKS	DATE	REMARKS	DATE	REMARKS	DATE	REMARKS	DATE
AND & ENGINEERING COMMENTS	3/29/18												

LIGHTING PLAN
NORTHERN RIVERS BEHAVIOR HEALTH CENTER
PROPOSED No. 58 ACADEMY ROAD
ALBANY, NEW YORK

FILE: 170216 | SCALE: 1"=30' | DR: M.W. | CHK: DRH | DATE: 9/14/17 | 170216-1.DWG

C8

1 C9 ASPHALT PAVEMENT DETAIL
NOT TO SCALE

2 C9 INTEGRAL WALK & CURB DETAIL
NOT TO SCALE

3 C9 HANDICAPPED RAMP DETAIL
NOT TO SCALE

DETECTABLE WARNING SURFACE NOTES:

1. THE DETAILS PROVIDED ARE NOT DRAWN TO SCALE. THE QUANTITY OF DOMES DEPICTED ON THE DETECTABLE WARNING UNIT (THE DOMES AND THE ENTIRE 24" LEVEL SURFACE) IS FOR ILLUSTRATION ONLY.
2. INSTALLATION SHALL MEET ALL APPLICABLE ADA CODES AND STANDARDS.
3. CONFORM TO STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION MAPS ENTITLED 'DETECTABLE WARNING DETAILS, No. M608-5R1'.

DETECTABLE WARNING UNIT DIMENSIONS:
1. THE SIZE OF THE DETECTABLE WARNING FIELD SHALL BE 24" IN THE DIRECTION OF TRAVEL AND SHALL EXTEND THE FULL WIDTH OF THE CURB RAMP OR FLUSH SURFACE, EXCLUSIVE OF SIDE FLARES.

DOME ALIGNMENT:
1. THE ROWS OF DOMES SHALL BE ALIGNED TO BE PERPENDICULAR OR RADIAL TO THE GRADE BREAK BETWEEN THE RAMP LANDING OR CURB RAMP AND THE STREET.
2. WHERE DOMES ARE ARRAYED RADIALLY THEY MAY DIFFER IN DOME DIAMETER AND CENTER-TO-CENTER SPACING WITHIN THE RANGES SPECIFIED ON THIS SHEET.

DETECTABLE WARNINGS COLOR REQUIREMENTS:
1. THE DETECTABLE WARNING FIELD SHALL BE THE COLOR SPECIFIED IN THE CONTRACT DOCUMENTS OR MEET THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS.

DETECTABLE WARNINGS LOCATIONS:
1. DETECTABLE WARNINGS SHALL BE LOCATED SO THAT THE EDGE OR CORNER OF THE WARNING FIELD NEAREST TO THE ROADWAY IS 5" TO 9" FROM THE FRONT OF THE CURB OR THE ROADWAY EDGE (1/2" WHERE TRAVERSABLE CURB IS USED).
2. THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 6'-0" MINIMUM AND 15'-0" MAXIMUM FROM THE CENTERLINE OF THE NEAREST RAIL.

DETECTABLE WARNING SURFACE DETAIL

4 C9 HANDICAPPED RAMP DETAIL
NOT TO SCALE

NOTE:
1. EXPANSION JOINT MATERIAL SHALL INSTALLED WHEN CURB IS SET AGAINST NEW OR EXISTING SIDEWALK AS ORDERED BY THE ENGINEER.
2. FOR NEW CONSTRUCTION, A 6" CURB REVEAL SHALL BE MAINTAINED, FOR CURB REPLACEMENT OR RESETTING, MATCH EXISTING REVEAL. FOR DROP CURB, MAXIMUM HEIGHT SHALL BE 1/2".
3. UNLESS OTHERWISE NOTED, ALL ITEMS ASSOCIATED WITH GRANITE CURB INSTALLATION SHALL BE PAID FOR UNDER ITEM 609.0201

5 C9 GRANITE CURB DETAIL
NOT TO SCALE

NOTES:
1. SIDEWALK SLOPE FROM BUILDING WALL TO CURB TO BE 1/8" PER FOOT
2. SIDEWALK FINISH TO BE MAGNESIUM FLOAT FINISH
3. CONCRETE WALK TO CONFORM TO CITY OF ALBANY ENGINEERING SPECIFICATIONS
4. CONCRETE USED SHALL HAVE AN AIR CONTENT OF 5% MIN. TO 7% MAX., AND A SLUMP OF THREE INCHES MIN. TO FIVE INCHES MAX.
5. ALL CONCRETE SIDEWALK REPLACEMENT SHALL BE TO FULL PANEL LIMITS. PARTIAL REPLACEMENTS WILL NOT BE ALLOWED.
6. EXPANSION JOINTS TO BE PLACED BETWEEN ADJACENT SLABS, AT BUILDING LINE OR PENETRATING STRUCTURES.
7. ALL CURBING SHALL BE RESET OR REPLACED AS REQUIRED IN ACCORDANCE WITH CITY DETAILS.

LONGITUDINAL SECTION — CROSS SECTION

6 C9 CONCRETE WALK REPAIR DETAIL IN CITY R.O.W.
NOT TO SCALE

7 C9 HANDICAP SIGN
N.T.S. TYPICAL FOR ACCESS AISLE

8 C9 HANDICAP SIGN
N.T.S. TYPICAL FOR PARKING SPACE

9 C9 HANDICAP SYMBOL
N.T.S.

10 C9 HANDICAPPED PAVEMENT STRIPING DETAIL
NOT TO SCALE

11 C9 IN LINE CLEANOUT DETAIL
NOT TO SCALE

12 C9 TYPICAL WATER SERVICE TRENCH DETAIL
NOT TO SCALE

13 C9 TYPICAL STORM SEWER TRENCH DETAIL
NOT TO SCALE

14 C9 TEE CONNECTION DETAIL
NOT TO SCALE

15 C9 TYPICAL HYDRANT DETAIL
NOT TO SCALE

16 C9 CATCH BASIN DETAIL
NOT TO SCALE

17 C9 WET SWALE AND CHECK DAM DETAIL
NOT TO SCALE

NOTE:
USE THIS DETAIL AS REQUIRED TO STABILIZE SLOPES DURING CONSTRUCTION AND UPON COMPLETION OF CLEARING AND GRADING TO PREVENT EROSION OF SLOPES.

18 C9 ANCHORED STABILIZATION MATTING
NOT TO SCALE

CONSTRUCTION SPECIFICATIONS:
1. INSTALL INLET PROTECTION IN ACCORDANCE WITH THE JULY 2016 "NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL".
2. CLEAR THE AREA OF ALL DEBRIS THAT WILL HINDER EXCAVATION.
3. GRADE APPROACH TO THE INLET UNIFORMLY AROUND THE BASIN.
4. WEEP HOLES SHALL BE PROTECTED BY 2"ø STONE OR GRAVEL.
5. UPON STABILIZATION OF CONTRIBUTING DRAINAGE AREA, SEAL WEEP HOLES, FILL EXCAVATION WITH STABLE SOIL TO FINAL GRADE, COMPACT IT PROPERLY AND STABILIZE WITH PERMANENT SEEDING.
6. THE MAXIMUM DRAINAGE AREA SHALL BE 1 ACRE.

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

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

19 C9 EXCAVATED DROP INLET PROTECTION
NOT TO SCALE

CONCRETE WASHOUT SIGN DETAIL
(OR EQUIVALENT)

WASHOUT STRUCTURE WITH WOOD PLANKS

CONSTRUCTION SPECIFICATIONS

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

20 C9 ONSITE CONCRETE TRUCK WASHOUT STRUCTURE DETAIL
NOT TO SCALE

WATER SERVICE ABANDONMENT DETAIL
23 C9
NOT TO SCALE

MAXIMUM ALLOWABLE SLOPE LENGTH

MAXIMUM ALLOWABLE SLOPE LENGTHS CONTRIBUTING RUNOFF TO A SECTION OF SILT FENCE SHALL BE AS FOLLOWS:

SLOPE STEEPNESS:	MAX. SLOPE LENGTH:
1:2	25 FT
1:3	50 FT
1:4	75 FT
1:5 OR FLATTER	100 FT

NOTE: MAXIMUM DRAINAGE AREA FOR OVERLAND FLOW TO SILT FENCE SECTION SHALL NOT EXCEED 1/4 ACRE PER 100 FT OF FENCE. CONCENTRATED DISCHARGE OF SEDIMENT LADEN WATER SHALL NOT BE ALLOWED TO FLOW DIRECTLY TO THE FENCING.

CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

1. INSTALL SILT FENCE IN ACCORDANCE WITH "THE NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL", SECTION 7A.
2. WOVEN WIRE FENCE SHALL BE 12 1/2 GA., 6" MAXIMUM MESH OPENING, FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
3. FILTER CLOTH TO BE TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
4. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE WRAPPED TOGETHER PER SILT FENCE JOINT DETAIL ON THIS SHEET.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND SEDIMENT REMOVED WHEN ACCUMULATION REACHES 1/2 OF DESIGN CAPACITY OF FENCE (1/2 HEIGHT OF FILTER FABRIC) OR WHEN "BULGES" DEVELOP IN FENCING.

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

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

FILTER CLOTH:FILTER X, MIRAFI 100X, STABLINKA T140N OR APPROVED EQUAL.

PREFABRICATED UNIT: GEOFAB, ENVIROFENCE, OR APPROVED EQUAL.

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

SILT FENCE JOINT DETAIL

21 C9 SILT FENCE DETAIL
NOT TO SCALE

24 C9 ORIFICE CONTROL STRUCTURE DETAIL
NOT TO SCALE

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

22 C9 VEHICLE AND EQUIPMENT FUELING DETAIL
NOT TO SCALE

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REVISIONS	DATE	REMARKS
AND & ENGINEERING COMMENTS	3/29/18	

DETAILS
NORTHERN RIVERS BEHAVIOR HEALTH CENTER
PROPOSED No. 58 ACADEMY ROAD
ALBANY, NEW YORK

FILE: 170216	170216-1.DWG
SCALE: 1"=30'	DATE: 9/14/17
DR: MLW	CK: GBH

C9

CONSTRUCTION SPECIFICATIONS:

1. INSTALL CONSTRUCTION ACCESS IN ACCORDANCE WITH "NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL", SECTION 7A.

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

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

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

5. WIDTH – TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. IF CONSTRUCTED AS THE ONLY ENTRANCE TO THE SITE, WIDTH SHALL BE TWENTY–FOUR (24) FEET.

5. STABILIZATION FABRIC – WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.

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

7. MAINTENANCE – THE ACCESS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS–OF–WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS–OF–WAY MUST BE REMOVED IMMEDIATELY.

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

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

1 C10 STABILIZED CONSTRUCTION ACCESS DETAIL

NOT TO SCALE

CONSTRUCTION SPECIFICATIONS:

1. ALL PERIMETER DIKE/SWALE SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.
2. DIVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING FACILITY.
3. TO REDUCE THE AMOUNT OF UNDISTURBED AREA SHALL OUTLET INTO AN UNDISTURBED STABILIZED AREA AT NON–EROSION VELOCITY.
4. THE SWALE SHALL BE EXCAVATED OR SHAPED TO LINE GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED IN THIS STANDARD.
5. STABILIZATION OF THE AREA DISTURBED BY THE DIKE AND SWALE SHALL BE DONE IN ACCORDANCE WITH THE STANDARD AND SPECIFICATIONS FOR TEMPORARY SEEDING AND MULCHING, AND SHALL BE DONE WITHIN 10 DAYS.
6. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

MAX. DRAINAGE AREA LIMIT: 2 ACRES

DESIGN CRITERIA:

THE PERIMETER DIKE/SWAL SHALL NOT BE CONSTRUCTED OUTSIDE PROPERTY LINES OR SETBACKS WITHOUT OBTAINING LEGAL EASEMENTS FROM AFFECTED ADJACENT PROPERTY OWNERS. A DESIGN IS NOT REQUIRED FOR PERIMETER DIKE/SWALE. THE FOLLOWING CRITERIA SHALL BE USED:

DRAINAGE AREA – LESS THAN 2 ACRES (FOR DRAINAGE AREAS LARGER THAN 2 ACRES BUT LESS THAN 10 ACRES, SEE EARTH DIKE OR CONSTRUCTION DITCH; FOR DRAINAGE AREAS LARGER THAN 10 ACRES, SEE STANDARD AND SPECIFICATIONS FOR DIVERSION).

HEIGHT – 18 INCHES MINIMUM FROM BOTTOM OF SWALE TO TOP OF DIKE (EVENLY DIVIDED BETWEEN DIKE HEIGHT AND SWALE DEPTH.

BOTTOM WIDTH OF DIKE – 2 FEET MINIMUM.

WIDTH OF SWALE – 2 FEET MINIMUM

GRADE – DEPENDENT UPON TOPOGRAPHY, BUT SHALL HAVE POSITIVE DRAINAGE (SUFFICIENT GRADE TO DRAIN) TO AN ADEQUATE OUTLET. MAXIMUM ALLOWABLE GRADE NOT TO EXCEED 8 PERCENT.

STABILIZATION – THE DISTURBED AREA OF THE DIKE AND SWALE SHALL BE STABILIZED WITHIN 2 DAYS OF INSTALLATION FOR CONSTRUCTION DITCH (SEE PAGE 3.4).

2 C10 TEMPORARY PERIMETER DIKE OR SWALE DETAIL

NOT TO SCALE

3 C10 DETENTION BASIN EXPANSION DETAIL

NOT TO SCALE

NOTE: MAINTAIN SEWER FLOW DURING CONSTRUCTION

4 C10 INSERTION MANHOLE DETAIL

NOT TO SCALE

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

5 C10 ASPHALT PAVEMENT REPAIR DETAIL IN CITY R.O.W

NOT TO SCALE

STORMWATER MANAGEMENT PRACTICE - WET SWALE
Must Be Maintained In Accordance With O&M Plan
DO NOT REMOVE OR ALTER

6 C10 STORMWATER MANAGEMENT PRACTICE SIGN (AT WET SWALE LOCATION)

NOT TO SCALE

7 C10 FLARE END SECTION DETAIL

NOT TO SCALE

NOTE:

1. GREASE & OIL INTERCEPTOR SHALL BE INSTALLED IN CONFORMANCE WITH THE CITY OF ALBANY DEPARTMENT OF GENERAL SERVICES.
2. THE TANKS SHALL BE DESIGNED FOR H–20 LOADING. (TRAFFIC DUTY).
3. SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION.
4. EXTERIOR OF TANK SHALL RECEIVE BITUMINOUS COATING TO ENSURE WATER TIGHTNESS & PREVENT DETERIORATION.
5. THE TANKS SHALL BE MANUFACTURED BY THE FORT MILLER CO. INC OR KISTNER CONCRETE PRODUCTS, INC.

8 C10 GREASE & OIL INTERCEPTOR DETAIL

NOT TO SCALE

CONSTRUCTION SPECIFICATIONS:

1. AREA UNDER EMBANKMENT SHALL BE CLEARED, GRUBBED AND STRIPPED OF ANY VEGETATION AND ROOT MAT. THE POOL AREA SHALL BE CLEARED.
2. THE FILL MATERIAL FOR THE EMBANKMENT SHALL BE FREE OF ROOTS OR OTHER WOODY VEGETATION, AS WELL AS MANURE, ROCKS, ORGANIC MATERIAL OR OTHER OBJECTIONABLE MATERIAL. THE EMBANKMENT SHALL BE COMPACTED BY TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED.
3. VOLUME OF SEDIMENT STORAGE SHALL BE 3600 CUBIC FEET PER ACRE OF CONTRIBUTORY DRAINAGE.
4. SEDIMENT SHALL BE REMOVED AND TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ½ THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND STABILIZED.
5. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
6. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND SEDIMENT ARE CONTROLLED.
7. THE STRUCTURE SHALL BE REMOVED AND AREA STABILIZED WHEN THE DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
8. ALL FILL SLOPES SHALL BE 2:1 OR FLATTER. CUT SLOPES 1:1 OR FATTER.
9. ALL PIPE CONNECTIONS SHALL BE WATERTIGHT.
10. THE TOP 2/3 OF THE RISER SHALL BE PERFORATED WITH ONE (1) INCH DIAMETER HOLES OR SLITS SPACED SIX (6) INCHES VERTICALLY AND HORIZONTALLY AND PLACED IN THE CONCAVE PORTION OF PIPE. NO HOLES WILL BE ALLOWED WITHIN SIX (6) INCHES OF THE HORIZONTAL BARREL.
11. THE RISER SHALL BE WRAPPED WITH 1/4 TO 1/2 INCH HARDWARE CLOTH WIRE THEN WRAPPED WITH FILTER CLOTH (HAVING EQUIVALENT SIEVE SIZE OF 40–80). THE FILTER CLOTH SHALL EXTEND SIX (6) INCHES ABOVE THE HIGHEST HOLE AND SIX (6) INCHES BELOW THE LOWEST HOLE. WHERE ENDS OF THE FILTER CLOTH COME TOGETHER, THEY SHALL BE OVER–LAPPED, FOLDED AND STAPLED TO PREVENT BYPASS.
12. STRAPS OR CONNECTING BANDS SHALL BE USED TO HOLD THE FILTER CLOTH AND WIRE FABRIC IN PLACE. THEY SHALL BE PLACED AT THE TOP AND BOTTOM OF THE CLOTH.
13. FILL MATERIAL AROUND THE PIPE SPILLWAY SHALL BE HAND COMPACTED IN FOUR (4) INCH LAYERS. A MINIMUM OF TWO (2) FEET OF HAND COMPACTED BACKFILL SHALL BE PLACED OVER THE PIPE SPILLWAY BEFORE CROSSING IT WITH CONSTRUCTION EQUIPMENT.
14. THE RISER SHALL BE ANCHORED WITH EITHER A CONCRETE BASE OR STEEL PLATE TO PREVENT FLOTATION. FOR CONCRETE BASE THE DEPTH SHALL BE TWELVE (12) INCHES WITH THE RISER EMBEDDED NINE (9) INCHES. A 1/4 INCH MINIMUM THICKNESS STEEL PLATE SHALL BE ATTACHED TO THE RISER BY A CONTINUOUS WELD AROUND THE BOTTOM TO FORM A WATERTIGHT CONNECTION AND THE PLACE TWO (2) FEET OF STONE, GRAVEL, OR TAMPED EARTH ON THE PLATE.

MINIMUM SIZES

BARREL DIAMETER* (INCHES)	RISER DIAMETER* (INCHES)	MAXIMUM DRAINAGE AREA (ACRES)
12	18	1
15	18	2
18	21	3
21	24	4
21	27	5

* BARREL DIAMETER MAY BE SAME SIZE AS RISER DIAMETER

DESIGN CRITERIA:

IF THE DRAINAGE AREA TO THE PROPOSED TRAP LOCATION EXCEEDS 5 ACRES, OR IF THE TRAP IS TO BE LOCATED IN A DEPRESSION, POND, OR ANY OF THE ADDITIONAL DESIGN CRITERIA PRESENTED HERE CANNOT BE MET, A FULL SEDIMENT BASIN MUST BE USED. SEE STANDARD AND SPECIFICATION FOR SEDIMENT BASIN ON PAGE 5.19.

DRAINAGE AREA – THE MAXIMUM DRAINAGE AREA FOR ALL SEDIMENT TRAPS SHALL BE 5 ACRES.

LOCATION – SEDIMENT TRAPS SHALL BE LOCATED SO THAT THEY CAN BE REPAIRED PRIOR TO GRADING OR FILLING IN THE DRAINAGE AREA. THEY ARE TO PROTECT. TRAPS MUST **NOT BE LOCATED ANY CLOSER THAN 20 FEET** FROM A PROPOSED BUILDING FOUNDATION IF THE TRAP IS TO FUNCTION DURING BUILDING CONSTRUCTION. LOCATE TRAPS TO OBTAIN MAXIMUM SEDIMENT STORAGE, SAFE ACCESS, AND FOR EASE OF CLEANOUT AND DISPOSAL OF THE TRAPPED SEDIMENT.

TRAP SIZE – THE VOLUME OF A SEDIMENT TRAP AS MEASURED AT THE ELEVATION OF THE CREST OF THE OUTLET SHALL BE AT LEAST 3,600 CUBIC FEET PER ACRE OF CONTRIBUTORY DRAINAGE AREA. THE DEPTH OF THE TRAP SHOULD BE 2:1 SHOULD BE PROVIDED. THE VOLUME OF A CONSTRUCTED TRAP SHALL BE CALCULATED USING STANDARD MATHEMATICAL PROCEDURES. THE VOLUME OF A NATURAL SEDIMENT TRAP MAY BE APPROXIMATED BY THE EQUATION: VOLUME (CU.FT.) = 0.4 X SURFACE AREA (SQ.FT.) X MAXIMUM DEPTH (FT.).

TRAP CLEANOUT – SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO THE ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ½ OF THE DESIGN DEPTH OF THE TRAP. SEDIMENT REMOVED FROM THE TRAP SHALL BE DEPOSITED IN A PROTECTED AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.

EMBANKMENT – ALL EARTH EMBANKMENTS FOR SEDIMENT TRAPS SHALL BE COMPACTED BY TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED ON THE ORIGINAL GROUND ALONG THE CENTERLINE OF THE EMBANKMENT. EMBANKMENTS SHALL HAVE A MINIMUM FOUR (4) FOOT WIDE TOP AND SIDE SLOPES OF 2:1 OR FLATTER. THE EMBANKMENT SHALL BE COMPACTED BY TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED. THE EMBANKMENT SLOPES SHALL BE STABILIZED WITH SEED AND MULCH AS SOON AS IT IS COMPLETED.

THE ELEVATION OF THE TOP OF ANY DIKE DIRECTING WATER TO ANY SEDIMENT TRAP WILL EQUAL OR EXCEED THE MAXIMUM HEIGHT OF THE OUTLET STRUCTURE ALONG THE ENTIRE LENGTH OF THE TRAP.

EXCAVATION – ALL EXCAVATION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION SHALL BE MINIMAL. EXCAVATED PORTIONS OF SEDIMENT TRAPS SHALL HAVE 1:1 OR FLATTER SLOPES.

OUTLET – THE OUTLET SHALL BE DESIGNED, CONSTRUCTED, AND MAINTAINED TO PREVENT SEDIMENT LOSS UNDER ANY FLOW CONDITIONS THE TRAP AND THAT EROSION AT OR BELOW THE OUTLET DOES NOT OCCUR.

SEDIMENT TRAPS MUST OUTLET ONTO STABILIZED (PREFERABLE UNDISTURBED) GROUND, INTO A WATERCOURSE, STABILIZED CHANNEL, OR ONTO A STABILIZED DRAINAGE WAY. THE DISTANCE FROM THE TRAP TO THE OUTLET SHOULD BE MAXIMIZED TO THE LONGEST LENGTH PRACTICABLE. ALL TRAPS MUST BE SEEDED AND MULCHED IMMEDIATELY AFTER CONSTRUCTION.

CONSTRUCTION SEQUENCE SUMMARY TABLE	
CS#	*DISTURBED AREA*
CS1	2.28 ACRES

TEMPORARY SEDIMENT TRAP SUMMARY TABLE	
DESCRIPTION	*TRAP No.1*
TYPE	-
DRAINAGE AREA	2.28 ACRES
STORAGE REQ'D	303 C.Y.
STORAGE PROVIDED*	313 C.Y.
PIPE OUTLET	12"
DEPTH BELOW OUTLET	12"
ENBANKMENT HT.	10'
SOIL CLEANOUT ELEVATION	214.5
INVERT OUT ELEVATION	213.0
LENGTH x WIDTH x HT*	85'x25'x4'

*STORAGE CAPACITY FROM THE TOP ELEVATION OF THE RISER PIPE OUTLET TO THE TRAP BOTTOM

9 C10 TEMPORARY SEDIMENT CONTROL TRAP DETAIL

NOT TO SCALE

10 C10 PUMP STATION PLAN AND SECTION DETAIL

NOT TO SCALE

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Consulting Engineers and Land Surveyors
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Albany, New York 12203

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REVISIONS			
REMARKS	DATE	REMARKS	DATE
AND & ENGINEERING COMMENTS	3/29/18		

DETAILS
NORTHERN RIVERS BEHAVIOR HEALTH CENTER
PROPOSED No. 58 ACADEMY ROAD
ALBANY, NEW YORK

T.O.E. 1/30/18	SCALE: 1"=30'	CK: MLW	DRC: DRH	DATE: 3/14/17	170316-1.DWG

C10