A-B TECH - PARKING LOT STORMWATER RETROFIT

FACILITIES WAY :: ASHEVILLE, NORTH CAROLINA

MAY 30, 2024

CONSTRUCTION DOCUMENTS BID SET

PROJECT INFORMATION

PREPARED FOR:
A-B TECH
340 VICTORIA RD
ASHEVILLE, NC 28801
CONTACT: DIRK WILMOTH, PH.D.
828-398-7111
DIRKWILMOTH@ABTECH.EDU

CLIENT:
RIVERLINK
170 LYMAN STREET
ASHEVILLE, NC 28801
CONTACT: RENEE FORTNER
828.252.8474 EXT 114
RENEE@RIVERLINK.ORG

SURVEYOR:
CHRIS MILAN
828.398.7370
CHISTOPHERMILAN@ABTECH.EDU

LANDSCAPE ARCHITECT:
OSGOOD LANDSCAPE ARCHITECTURE
1 HAYWOOD STREET STE 467
ASHEVILLE, NC 28801
CONTACT: JOEL OSGOOD
828.337.7496
JO@OSGOODLA.COM

CIVIL ENGINEER:
BLUE EARTH ENGINEERING
1 HAYWOOD ST. STE 414
ASHEVILLE, NC 28801
CONTACT: TIMOTHY ORMOND
828.989.8075
TORMOND@BLUEEARTH.US

GEOTECHNICAL ENGINEER:
S&ME, INC.
44 BUCK SHOALS RD, STE C-3
ARDEN, NC 28704
CONTACT: CHRISTOPHER FUJITA-MENTCH
828.687.9080

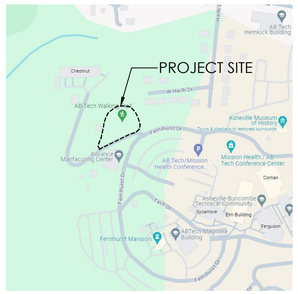
SHEET INDEX

DOCUMENT ISSUE

DATE	NO.	ISSUE

VICINITY MAP

1" = 500' N



DEVELOPMENT DATA

Property Owner:	A-B Tech Community College		
Contact:	Timothy Ormond, PE Blue Earth Engineering 1 Haywood St. Suite 414 Asheville, NC 28801 828.989.8075		
Location:	340 Victoria Rd. Asheville, North Carolina		
PIN:	9648214531000000		
Property Size:	109.28 Acres (4,760,236 SF)		
Project Size:	1.62 Acres (70,657 SF)		
Total Disturbance:	.98 Acre (42,791 SF)		
Pre-Dev. Impervious:	0.81 Acres (35,151 SF)	49.75%	
Pre-Dev. Pervious:	0.81 Acres (35,506 SF)	50.25%	
	1.62 Acres (70,657 SF)	100.00%	
Post-Dev. Impervious:	0.17 Acres (7,320 SF)	10.35%	
Post-Dev. Pervious:	1.45 Acres (63,337 SF)	89.65%	
	1.62 Acres (70,657 SF)	100.00%	
Soil Types:	UhE Udorthents-Urban Land complex, 2-50 percent slopes .5 (49.4%) Ux Urban Land, .6 (50.6%)		
Zoning District:	INST		
Setbacks:	Front= 15' Side= 10' Back= 10'		

EXISTING UTILITIES IN THIS AREA.

CALL BEFORE YOU DIG !
CALL 1-800-632-4949
NC ONE CALL CENTER
IT'S THE LAW !

VERIFY LOCATION OF EXISTING UTILITIES PRIOR TO ANY GRADING OR SITE WORK. NOTIFY OWNER OF ANY CONFLICTS.

APPROVAL BLOCK

Osgood LANDSCAPE ARCHITECTURE
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828.527.6466

BlueEarth PLANNING • ENGINEERING • DESIGN
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SEAL

NORTH CAROLINA PROFESSIONAL SEAL 032956 ENGINEER TIMOTHY P. ORMOND
5/30/24

ISSUED

DATE ISSUED: MAY 30, 2024
DRAWN BY: RB
APPROVED BY: JO

REVISIONS

SHEET TITLE

INDEX

A-B TECH PARKING LOT STORMWATER RETROFIT
13 FACILITIES WAY
ASHEVILLE, NC

0.00

TREE PROTECTION NOTES

"Shall" refers to a practice that is mandatory; "should" refers to a practice that is recommended. If a"should" recommendation will not be followed, written explanation must be provided to and approved by the Arborist and Landscape Architect.

1. A root protection zone (RPZ) shall be established around the trees identified by Arborist and Landscape Architect for protection.
2. No work shall begin until the tree protection fencing has been installed for this RPZ and approved by the Arborist and Landscape Architect. Tree protection fencing shall be maintained and repaired by the contractor during construction. The fencing shall be a minimum of 4' height.
3. Any linear excavation for utility lines, foundations, roads, and sidewalks is considered trenching. No trenching should be allowed within the rpz.
4. Tree branches in conflict with construction shall be cut cleanly according to ANSI A300 Pruning Standards, only after Arborist and Landscape Architect approval.
5. Trees which are damaged or lost due to the contractor's negligence during construction shall be mitigated. Any roots over 1" diameter shall be cut cleanly with pruning saw to avoid infection of trees to remain.
6. When preparing proposed landscape beds, do not till within the drip line of existing vegetation.
7. The protected area shall be maintained at its original grade, with no storage of fill, compaction of soil or trenching or cutting of tree roots. In no event shall motorized vehicles or equipment enter the protected area.
8. The contractor shall not cause or allow the cleaning of equipment, storage or disposal of materials such as paints, solvents, asphalt, concrete, or any material that can damage the health of vegetation within the drip line of protected vegetation or to flow into the RPZ.
9. No attachment of wires (exclusive of protective guide wires), signs, or permits shall be fastened to vegetation within the protected area.
10. All clearing and grubbing within the protected area shall be done with HAND TOOLS ONLY and under the direction of the Landscape Architect and Arborist.
11. All existing trees shown on plan are per field survey. Contact Landscape Architect if ambiguities arise regarding trees to remain.
12. ENHANCED/RIGID Tree Protection Fence shall be installed around all Specimen trees with metal posts and rails with green, black, or brown mesh fencing preferred.
13. Construction access and staging to take place outside of all designated RPZ, and as directed by landscape architect and arborist. Rigid fencing to remain in place throughout construction as indicated on the plan.

EROSION + SEDIMENT CONTROL CONSTRUCTION SEQUENCE

1. Refer to civil engineering drawings for notes associated with erosion control, sediment control, wetland and jurisdictional stream notes.
2. Call 1-900-632-4949 for utility locations prior to digging.
3. Establish construction access, routes, and staging area.
4. Install temporary silt fencing and inlet protection for all existing drains.
5. Install construction entrance as indicated on plans or as discussed with the city inspector.
6. Install tree protection fencing.
7. Clear and grub site.
8. Begin rough grading of site.
9. Temporary diversion ditches shall be installed at the top of fill slopes or where needed. ditches to be inspected and repaired at the end of each work day.
10. Install new runoff conveyance systems, channels, and inlets per plans.
11. Install temporary inlet protection immediately after new inlet installation.
12. Temporary seeding shall be installed per Civil Engineering Erosion and Sediment Control Drawings following completion of any phase of grading.
13. Install erosion control matting in ditches/swales as required by plan set.
14. Perform fine grading of site.
15. Install permanent vegetative cover for all disturbed areas within 30 working days or 30 calendar days (whichever is shorter) following completion of site construction.
16. Once site is stabilized, remove all temporary measures and complete permanent vegetative cover.
17. Contractor to coordinate earthwork stock piling exhibit for engineering review and approval.

LAYOUT NOTES

1. Do not scale site features from drawing.
2. Tie in gutter and downspout to subsurface drainage systems, where applicable. Run-off discharge at pipe ends shall be treated with stone apron at a minimum.
3. Tie in all proposed storm drainage to proposed storm inlets with a minimum of 12" cover over all pipe sections, unless otherwise indicated.
4. Install temporary inlet protection for all inlets immediately after inlet has been installed.
5. Contractor shall verify layout/staking and grades in field and notify Landscape Architect and/or Management if any conflicts and/or ambiguities arise.
6. Grading contractor shall meet with Landscape Architect, Civil Engineer, and/or Owner on site to review clearing, demolition, and grading prior to starting work.
7. Contractor shall be responsible for locating and protecting existing utilities and structures. Contact Landscape Architect and/or Management and applicable utility companies if conflicts arise, if existing conditions conflict with new construction, or if utility tie-in locations are required. Review tie-in locations and coordinate with building utility locations.
8. Contractor is responsible for minimal disturbance of existing vegetation during installation of any and all underground utilities.
9. Existing vegetation is not to be damaged or disturbed outside of clearing limits.
10. Layout all site elements in field prior to construction for approval by Landscape Architect and/or Management.
11. Layout and grades of proposed walks to be verified with Landscape Architect and/or Management.
12. Refer to landscape plan for plant material locations, landscape lighting (if applicable), and other landscape features.

PLANTING SEQUENCE NOTES

1. Contractor to schedule a pre-construction conference with Landscape Architect and Owner's Representative before construction commences.
2. Establish utility locations and subsurface drainage locations prior to digging. Consult construction manager and/or call 1-800-632-4949.
3. Final planting locations subject to landscape architect and/or owner review before digging.
4. Refer to erosion control drawings via civil engineer for construction sequence. Ensure erosion control measures are established and maintained before any fine grading.
5. Refer to soil and planting recommendation for all planting bed and soil amendment preparation.
6. Begin fine grading and hardscape paving area per architect, civil, and landscape architect plans.
7. Upon completion of fine grading and paving, install permanent vegetative plantings and cover within 15 working days following completion of site construction.
8. After site is stabilized and plantings are established, remove all temporary erosion control measures and complete permanent planting.
9. Mulch trees and shrubs as specified on drawings.
10. Irrigation via hand watering or other means will be required for the first 12 months with 1" per week for plantings unless otherwise directed.

PLANTING NOTES

1. All vegetation shall meet the minimum size requirements indicated in the plant schedule.
2. All plants must meet the requirements of the most recent edition of the American Standards for Nursery Stock, ANSI 260.1. Plants must be healthy, well-branched, and free of disease and insect infestation. Landscape Architect reserves the right to reject any plant material.
3. Mulch tree and shrub planting areas with aged double ground, shredded hardwood mulch no more or less than 2-3" in depth as directed by Landscape Architect. Mulch should be aged a minimum of six months and shall be free of weed seeds, soil, roots, or any other substance not consisting of either bole or branch wood and bark.
4. Contractor shall verify quantities and is responsible for all plants shown on the plan.
5. Contractor shall guarantee all planting for one year from completion of work unless otherwise directed by owners. Replacement plant and labor shall be provided at contractor's expense.
6. Prune plant material only as directed by Landscape Architect. Shrubs and trees shall not have sheared appearance.
7. Existing plants to remain shall be flagged for approval by owner and Landscape Architect. Protection of existing trees and/or vegetation is considered to be incidental to the work
8. Areas under existing tree drip lines are not to be tilled. Hand digging ONLY in these areas.
9. Revegetate all disturbed areas with the specified permanent ground cover seed mix as indicated in the planting schedule.
10. Refer to planting and soil recommendations and specifications for additional information.
11. Contractor shall seek approval from landscape architect prior to any plant species and/or cultivar substitutions.

UTILITY NOTES

1. All utilities to be located and marked before planting install.
2. Plant locations may need to be adjusted to meet utility offsets or revisions to utility locations subsequent to drawing issue.

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SEAL

NORTH CAROLINA PROFESSIONAL SEAL 032956 ENGINEER TIMOTHY P. ORMOND
5/30/24

ISSUED

DATE ISSUED: MAY 30, 2024

DRAWN BY: RB

APPROVED BY: JO

REVISIONS

SHEET TITLE

NOTES

A-B TECH PARKING LOT STORMWATER RETROFIT

13 FACILITIES WAY
ASHEVILLE, NC

0.01

CHAIN-LINK FENCE AROUND MONITORING STATION

BENCHMARK: NCGS "LAUREN" BRASS DISC IN CONCRETE ELEVATION=2115.6'

LIMIT OF FIELD SURVEY EXTENTS PROVIDED BY CHRIS MILAN

EXISTING PAVILION STRUCTURE

EXISTING UNDERGROUND ELECTRICAL LINE

FIELD LOCATED POWER/ LIGHT POLE

EXISTING LIGHT POLE/ POWER POLE, TYP.

EXISTING TREE

APPROXIMATE LOCATION OF UNDERGROUND JUNCTION BOX

PROPERTY BOUNDARY

PROJECT LIMITS

EXISTING WATER LINE

EXISTING TREE

EXISTING GAS LINE

EXISTING SANITARY SEWER LINE

EXISTING UNDERGROUND TELECOM LINE

TOP OF BANK

30" RCP (APPROX. DIRECTION)

INV=2105.17'

INV=2105.12'

INV=2099.22'

INV=2128.14'

ASPHALT PARKING LOT

CONCRETE

FACILITIES WAY

FERNIHURST DRIVE

Sign

TEST PIT

PIN: 964822210900
WHITESIDES, ALFRED J ET AL
DB 0986, DP 0031
PB 0036, PP 0029
ZONE: RESIDENTIAL

PIN: 964822217900
BUTLER, HARVEY L. &
BUTLER, LILLIAN D.
DB 1305, DP 0751
PB 0036, PP 0029
ZONE: RESIDENTIAL

PIN: 9648
JXF INVEST
DB 4804
PB 0036,
ZONE: RE

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EXISTING CONDITIONS

A-B TECH PARKING LOT STORMWATER RETROFIT
13 FACILITIES WAY
ASHEVILLE, NC

N

0' 10' 20' 40'

SCALE: 1" = 20'-0"

0.02

REFER TO SHEET L-0.01 FOR CONSTRUCTION SEQUENCE NOTES. REFER TO SHEET L-6.01 FOR SEDIMENT AND EROSION CONTROL DETAILS AND SPECIFICATIONS.

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Zoning District:	INST	
Setbacks:	Front= 15' Side= 10' Back= 10'	

SILT FENCE OUTLET
CHAIN-LINK FENCE AROUND MONITORING STATION
BENCHMARK: NCGS "LAUREN" BRASS DISC IN CONCRETE ELEVATION=2715.6'
TEST PIT
SILT FENCE
LIMITS OF DISTURBANCE= 42,792 SF
TOP OF BANK
APPROXIMATE LOCATION OF UNDERGROUND JUNCTION BOX
30" RCP (APPROX. DIRECTION)
INV=2105.17'
INV=2105.12'
INLET PROTECTION
ASPHALT PARKING LOT
CONSTRUCTION FENCE, TYP.
CONCRETE
FACILITIES WAY
SILT FENCE OUTLET
CONSTRUCTION ENTRANCE MIN. 50'
INV=2099.22
GATE ACCESS
FERNIHURST DRIVE
PROPERTY BOUNDARY
TREE PROTECTION FENCE, TYP.
CONSTRUCTION ENTRANCE MIN. 50'
CONSTRUCTION FENCE, TYP.
PROJECT LIMITS
GATE ACCESS
INV=2128.14'
PIN: 964822210900
WHITESIDES, ALFRED J ET AL
DB 0986, DP 0031
PB 0036, PP 0029
ZONE: RESIDENTIAL
PIN: 964822217900
BUTLER, HARVEY L. & BUTLER, LILLIAN D.
DB 1305, DP 0751
PB 0036, PP 0029
ZONE: RESIDENTIAL
PIN: 9648
JXF INVEST
DB 4804
PB 0036,
ZONE: RE

EXISTING UTILITIES IN THIS AREA.

CALL BEFORE YOU DIG !
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SEDIMENT AND EROSION CONTROL PLAN

A-B TECH PARKING LOT STORMWATER RETROFIT
13 FACILITIES WAY
ASHEVILLE, NC

N
0' 10' 20' 40'
SCALE: 1" = 20'-0"

1.00

CHAIN-LINK FENCE AROUND MONITORING STATION

BENCHMARK: NGS "LAUREN" BRASS DISC IN CONCRETE ELEVATION=2115.6'

TEST PIT

TOP OF BANK

APPROXIMATE LOCATION OF UNDERGROUND JUNCTION BOX

SAWCUT EXISTING ASPHALT

PROPERTY BOUNDARY

PROJECT LIMITS

30" RCP (APPROX. DIRECTION)

INV=2105.17'

INV=2105.12'

INV=2099.22

INV=2108.14'

CONTRACTOR TO EXERCISE CAUTION NEAR EXISTING INLET

LIMITS OF DISTURBANCE

EXTENT OF ASPHALT DEMOLITION (30,210 SF)

TELECOM UTILITY TO BE RELOCATED

ELECTRICAL LINE TO BE RELOCATED

30" RCP

ASPHALT PARKING LOT

CONCRETE

DEMOLISH CONCRETE WALKWAY (181 SF)

FACILITIES WAY

FERNIHURST DRIVE

Sign

PIN: 964822210900
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2100 2105 2110 2115 2120 2125 2130 2135 2140

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DEMOLITION PLAN

A-B TECH PARKING LOT STORMWATER RETROFIT

13 FACILITIES WAY
ASHEVILLE, NC

N
0' 10' 20' 40'
SCALE: 1" = 20'-0"

2.00

SCHEDULE

DRAINAGE			
KEY	QTY	TYPE	NOTES
A-01	1 EA	AGRI-DRAIN INLET	REFER TO MANUFACTURER SPECIFICATIONS AND DETAILS
A-02	1 EA	FLOW SPLITTER	REFER TO SPECIFICATIONS AND DETAILS
A-03	260 LF	4" PEFORATED PIPE PIPE	ASSUMES SUBSURFACE DRAINAGE PIPE AS PVC WITH MIN. 18" MINIMUM COVER.
A-04	68LF	4" DRAINAGE PIPE	ASSUMES SUBSURFACE DRAINAGE PIPE AS PVC WITH MIN. 18" MINIMUM COVER.
A-05	24 LF	15" CULVERT PIPE	HDPE
A-06	1 EA	VAULT W/ COVER	
A-07	13,050 SF	IMPERMEABLE LINER	GEOSYNTHETIC CLAY LINER (GCL)

REFER TO SHEET L-0.01 FOR LAYOUT NOTES. REFER TO SHEET L-6.01 FOR SITE DETAILS AND SPECIFICATIONS.

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TEMPORARY INUNDATION AREA
A-05
A-07
CHAIN-LINK FENCE AROUND MONITORING STATION
BENCHMARK: NGS "LAUREN" BRASS DISC IN CONCRETE ELEVATION=2715.6'
NON-DEEP FOREBAY DEPTH = 2'
SHALLOW WATER ZONE
FOREBAY DEPTH = 3'
TEMPORARY INUNDATION AREA
NON-DEEP FOREBAY DEPTH = 2'
FLOW PATH
MICRO-GRADING TO ESTABLISH PLANTING ZONES, REFER TO PLANTING PLAN
A-03
EX 17.5' +/-
17.25' +/-
2% MAX
24" WALL
30" WALL
SPOT ELEVATIONS ARE APPROXIMATE AND FOR REFERENCE ONLY; CONTRACTOR TO ENSURE GRADES TIE INTO SLAB AT PAVILION PER CODE REQUIREMENT FOR ADA ACCESS
ADA PARKING SPACE NOT TO EXCEED 2% SLOPE IN ANY DIRECTION
APPX. CONNECT TO DOWNSPOUT UNDER
A-04
JUNCTION BOX
PROPERTY BOUNDARY
PROJECT LIMITS
TOP OF BANK
TEST PIT
SWALE
30" RCP (APPROX. DIRECTION)
A-02
CELL #1
MAX WATER ELEVATION: 20.75'
BOTTOM OF CELL: 17.75'
COIR MATTING TO BE INSTALLED IN SPILLWAYS, CHANNELS, INFILTRATION BASINS, AND WITHIN WETLAND
ASPHALT PARKING LOT
A-06
NON-DEEP FOREBAY DEPTH = 2.5'
A-01
A-07
HUMMOCK, TYP.
INV=2099.22
CELL #3
TEMPORARY INUNDATION WATER ELEVATION= 13'
PERMANENT WATER ELEVATION: 12'
CELL #2
MAX WATER ELEVATION: 16.75'
BOTTOM OF CELL: 13.75'
FACILITIES WAY
FERNIHURST DRIVE
INV=2108.14'
PIN: 964822210900
WHITESIDES, ALFRED J ET AL
DB 0986, DP 0031
PIN: 964
BUTLER,
BUTLER
DB 130
PB 003
ZONE: I

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SITE GRADING AND STORMWATER PLAN

A-B TECH PARKING LOT STORMWATER RETROFIT
13 FACILITIES WAY
ASHEVILLE, NC

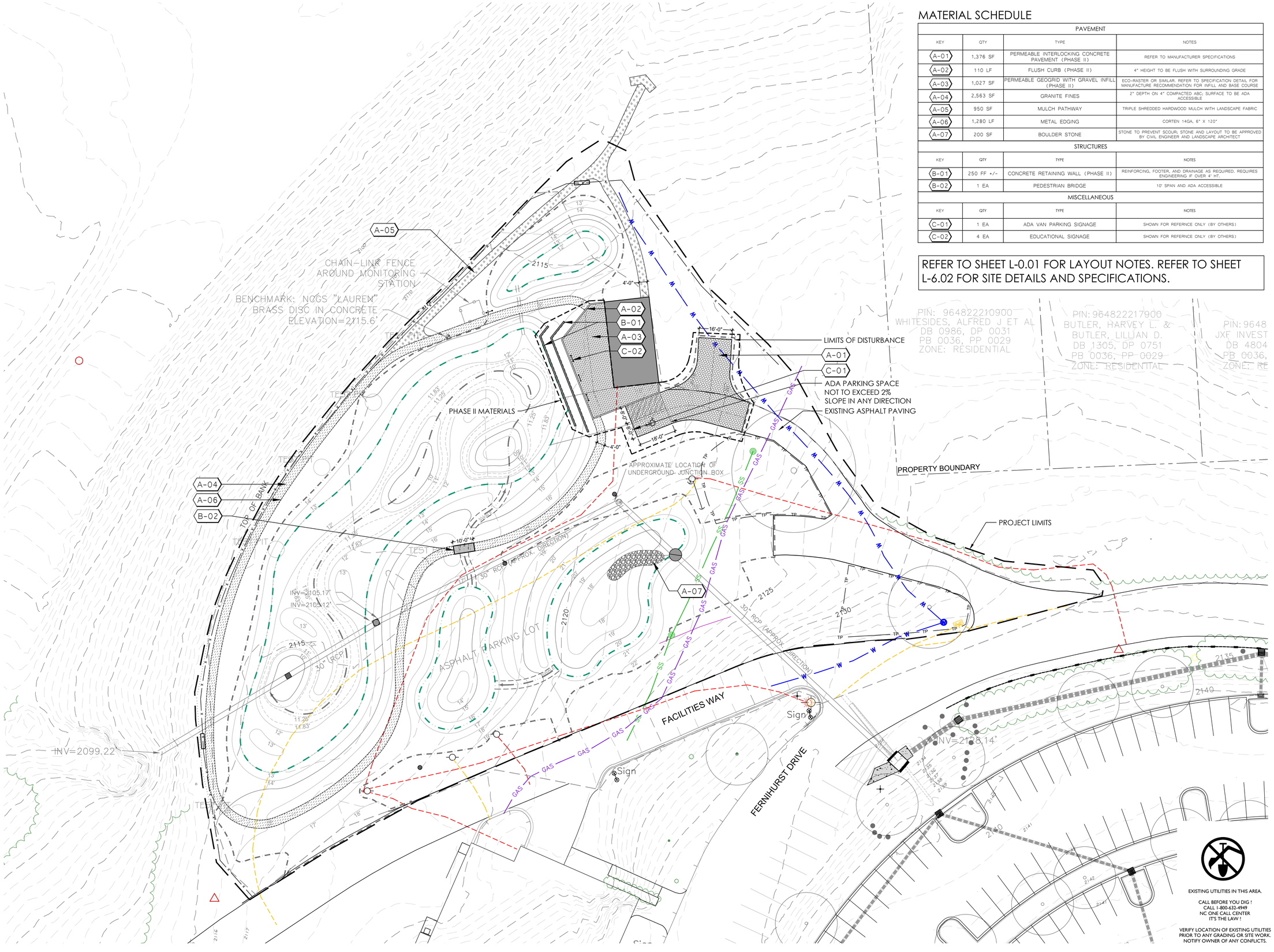
N
0' 10' 20' 40'
SCALE: 1" = 20'-0"

3.00

MATERIAL SCHEDULE

PAVEMENT			
KEY	QTY	TYPE	NOTES
A-01	1,376 SF	PERMEABLE INTERLOCKING CONCRETE PAVEMENT (PHASE II)	REFER TO MANUFACTURER SPECIFICATIONS
A-02	110 LF	FLUSH CURB (PHASE II)	4" HEIGHT TO BE FLUSH WITH SURROUNDING GRADE
A-03	1,027 SF	PERMEABLE GEOGRID WITH GRAVEL INFILL (PHASE II)	ECO-RASTER OR SIMILAR. REFER TO SPECIFICATION DETAIL FOR MANUFACTURE RECOMMENDATION FOR INFILL AND BASE COURSE
A-04	2,563 SF	GRANITE FINES	2" DEPTH ON 4" COMPACTED ABC; SURFACE TO BE ADA ACCESSIBLE
A-05	950 SF	MULCH PATHWAY	TRIPLE SHREDDED HARDWOOD MULCH WITH LANDSCAPE FABRIC
A-06	1,280 LF	METAL EDGING	CORTEN 14GA, 6" X 120"
A-07	200 SF	BOULDER STONE	STONE TO PREVENT SCOUR; STONE AND LAYOUT TO BE APPROVED BY CIVIL ENGINEER AND LANDSCAPE ARCHITECT
STRUCTURES			
KEY	QTY	TYPE	NOTES
B-01	250 FF +/-	CONCRETE RETAINING WALL (PHASE II)	REINFORCING, FOOTER, AND DRAINAGE AS REQUIRED. REQUIRES ENGINEERING IF OVER 4' HT.
B-02	1 EA	PEDESTRIAN BRIDGE	10' SPAN AND ADA ACCESSIBLE
MISCELLANEOUS			
KEY	QTY	TYPE	NOTES
C-01	1 EA	ADA VAN PARKING SIGNAGE	SHOWN FOR REFERNCE ONLY (BY OTHERS)
C-02	4 EA	EDUCATIONAL SIGNAGE	SHOWN FOR REFERNCE ONLY (BY OTHERS)

REFER TO SHEET L-0.01 FOR LAYOUT NOTES. REFER TO SHEET L-6.02 FOR SITE DETAILS AND SPECIFICATIONS.



EXISTING UTILITIES IN THIS AREA.

CALL BEFORE YOU DIG !
CALL 1-800-632-4949
NC ONE CALL CENTER
IT'S THE LAW !

VERIFY LOCATION OF EXISTING UTILITIES PRIOR TO ANY GRADING OR SITE WORK. NOTIFY OWNER OF ANY CONFLICTS.

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SEAL

NORTH CAROLINA PROFESSIONAL SEAL 032956 ENGINEER TIMOTHY P. ORMOND
5/30/24

ISSUED

DATE ISSUED: MAY 30, 2024
DRAWN BY: RB
APPROVED BY: JO

REVISIONS

SHEET TITLE

SITE MATERIALS/ LAYOUT PLAN

A-B TECH PARKING LOT STORMWATER RETROFIT
13 FACILITIES WAY
ASHEVILLE, NC

N
0' 10' 20' 40'
SCALE: 1" = 20'-0"

4.00

PLANTING SCHEDULE

TREES					
KEY	TOTAL	SPECIES	COMMON NAME	SIZE	NOTES
AR15	1	Acer rubrum	Red Maple	15 GAL.	Single leader
AA15	3	Amelanchier 'Autumn Brilliance'	Autumn Brillance Serviceberry	15 GAL.	Multi-stemmed; well branched
BN 15	3	Betula nigra 'Dura Heat'	Dura Heat River Birch	15 GAL.	Multi-stemmed; well branched
SHRUBS					
KEY	TOTAL	SPECIES	COMMON NAME	SIZE	NOTES
B	19	Callicarpa americana	American Beautyberry	3 GAL.	Full plant; match install size
CL	17	Clethra alnifolia 'Sixteen Candles'	Sweet Pepperbush	3 GAL.	Full plant; match install size
IJ	3	Ilex verticilla 'Jim Dandy'	Winterberry (Male)	3 GAL.	Full plant; match install size
IS	14	Ilex verticilla 'Red Sprite'	Winterberry (Female)	3 GAL.	Full plant; match install size
IT	37	Itea virginica 'Henry's Garnet'	Virginia Sweetspire	3 GAL.	Full plant; match install size
INFILTRATION BASIN ZONE (4,233 SF)					
KEY	TOTAL	SPECIES	COMMON NAME	SIZE	NOTES
	224	Carex grayi	Gray Sedge	LP 32	Plant 24" O.C. in loose drifts throughout planting area (846.5 SF/ 20%)
	224	Carex stricta	Tussock Sedge	LP 32	Plant 24" O.C. in loose drifts throughout planting area (846.5 SF/ 20%)
	224	Juncus effusus	Common Rush	LP 32	Plant 24" O.C. in loose drifts throughout planting area (846.5 SF/ 20%)
	224	Panicum virgatum	Switchgrass	LP 32	Plant 30" O.C. in loose drifts throughout planting area (1,270 SF/ 30%)
	96	Scirpus cyperinus	Woolgrass	LP 32	Plant 24" O.C. in loose drifts throughout planting area (423 SF/ 10%)
INUNDATION ZONE (4,915 SF)					
KEY	TOTAL	SPECIES	COMMON NAME	SIZE	NOTES
	192	Andropogon glomeratus	Bushy Bluestem	LP 32	Plant 24" O.C. in loose drifts throughout planting area (737 SF/ 15%)
	256	Carex lurida	Lurid Sedge	LP 32	Plant 24" O.C. in loose drifts throughout planting area (983 SF/ 20%)
	256	Carex cherokeensis	Cherokee Sedge	LP 32	Plant 24" O.C. in loose drifts throughout planting area (983 SF/ 20%)
	64	Conoclinium coelestinum	Blue Boneset	LP 32	Plant 24" O.C. in loose drifts throughout planting area (245.75 SF/ 5%)
	192	Liatris spicata	Blazing Star	LP 32	Plant 14" O.C. in loose drifts throughout planting area (245.75 SF/ 5%)
	128	Lobelia cardinalis	Cardinal Flower	LP 32	Plant 18" O.C. in loose drifts throughout planting area (245.75 SF/ 5%)
	224	Panicum virgatum 'Shenandoah'	Switchgrass	LP 32	Plant 30" O.C. in loose drifts throughout planting area (1228.75 SF/ 25%)
	64	Solidago rugosa	Wrinkleleaf Goldenrod	LP 32	Plant 24" O.C. in loose drifts throughout planting area (245.75 SF/ 5%)
SHALLOW ZONE 1A (1,500 SF)					
KEY	TOTAL	SPECIES	COMMON NAME	SIZE	NOTES
	160	Acorus americanus	Sweet Flag	LP 32	Plant 18" O.C. in loose drifts throughout planting area (300 SF/ 20%)
	160	Iris versicolor	Northern Blue Flag	LP 32	Plant 18" O.C. in loose drifts throughout planting area (300 SF/ 20%)
	96	Juncus effusus	Common Rush	LP 32	Plant 24" O.C. in loose drifts throughout planting area (300 SF/ 20%)
	160	Dulichium arundinaceum	Three-way Sedge	LP 32	Plant 18" O.C. in loose drifts throughout planting area (300 SF/ 20%)
	96	Sagittaria lancifolia	Duck Potato	LP 32	Plant 24" O.C. in loose drifts throughout planting area (300 SF/ 20%)
SHALLOW ZONE 1B (2,225 SF)					
KEY	TOTAL	SPECIES	COMMON NAME	SIZE	NOTES
	192	Orontium aquaticum	Goldern Club	LP 32	Plant 24" O.C. in loose drifts throughout planting area (741.66 SF/ 33%)
	192	Peltandra virginica	Green Arrow Arum	LP 32	Plant 24" O.C. in loose drifts throughout planting area (741.66 SF/ 33%)
	192	Pontederia cordata	Pickeralweed	LP 32	Plant 24" O.C. in loose drifts throughout planting area (741.66 SF/ 33%)
DEEP ZONE 1 (1,180 SF)					
KEY	TOTAL	SPECIES	COMMON NAME	SIZE	NOTES
	192	Nuphar lutea ssp. advena	Yellow Pond-lily	LP 32	Plant 30" O.C. in loose drifts throughout planting area (1,180 SF/ 100%)
SEED MIX					
KEY	TOTAL	SPECIES	COMMON NAME	SIZE	NOTES
	7,000 SF	-	ECO-GRASS	Seed	PRAIRE MOON NUSERESY
	16,250 SF	-	NC MOUNTAINS UPL MEADOW MIX	Seed	ERNST SEED MIX #303
	360 SF	-	RETENTION BASIN WILDLIFE MIX	Seed	ERNST SEED MIX #127

NOTES

1. PLANTS THAT GROW IN SHALLOW WATER (WATER'S EDGE TO 6" BELOW NORMAL WATER LEVEL) MUST HAVE 3" OF ABOVE WATER FOLIAGE WHEN INSTALLED. THIS CAN BE ACHIEVED BY ADJUSTING THE WATER LEVEL OF THE WETLAND TO ACCOMMODATE PLANS WITH SHORTER FOLIAGE OR BY INSTALLING PLANTS THAT HAVE AT LEAST 9" FOLIAGE HEIGHT AT TIME OF PLANTING.
2. WETLAND PLANTS TO BE PLANTED AFTER THE AVERAGE LAST SPRING FROST AND AT LEAST 4 WEEKS BEFORE THE AVERAGE FIRST FALL FROST.
3. REFER TO SHEET L-0.01 FOR PLANTING SEQUENCE AND NOTES.

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SEAL

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT No 1654 JOEL KEY OSGOOD
5/30/24

ISSUED

DATE ISSUED: MAY 30, 2024
DRAWN BY: RB
APPROVED BY: JO

REVISIONS

SHEET TITLE

PLANTING PLAN

A-B TECH PARKING LOT STORMWATER RETROFIT
13 FACILITIES WAY
ASHEVILLE, NC

N
0' 10' 20' 40'
SCALE: 1" = 20'-0"

5.00

Table 7-1: Seeding and Mulching

Area Type	Seeding Area, Dates & Types			
	Seeding Dates & Types			
	August 1 - June 1		May 1 - September 1	
	lbs/acre	Seed Type & Fertilizer	lbs/acre	Seed Type & Fertilizer
Shoulders and Median	20	Kentucky Blue Grass	20	Kentucky Blue Grass
	75	Hard Fescue	75	Hard Fescue
	25	Rye Grain	10	German or Blowtop Millet
	500	Fertilizer	500	Fertilizer
	4000	Limestone	4000	Limestone
Areas Beyond the Mowing Pattern, Waste, and Borrow Areas	100	Tall Fescue	100	Tall Fescue
	15	Kentucky Blue Grass	15	Kentucky Blue Grass
	30	Hard Fescue	30	Hard Fescue
	25	Rye Grain	10	German or Blowtop Millet
	500	Fertilizer	500	Fertilizer
	4000	Limestone	4000	Limestone

Table 7-1: Seeding and Mulching" continued on next page.

Table 7-1: Seeding and Mulching (continued)

Approved Cultivars					
Cultivar Type	Cultivar Names				
Tall Fescue	2nd Millennium	Coyote	Inferno	Olympic Gold	Signia
	Avenger	Davinci	Justice	Padre	Silverstar
	Barlexas	Dynasty	Jaguar 3	Paraiso	Southern Choice II
	Barlexas II	Dominion	Kalahari	Picasso	Stetson
	Barrera	Duster	Kentucky 31	Piedmont	Tarheel
	Barrington	Endeavor	Kitty Hawk	Pure Gold	Titan Ltd
	Biltmore	Escalade	Kitty Hawk 2000	Prospect	Titanium
	Bingo	Falcon II, III, IV & V	Lexington	Quest	Tomahawk
	Bravo	Fidelity	Magellan	Rebel Exeda	Tacer
	Cayenne	Finesse II	Masterpiece	Rebel Sentry	Trooper
	Chapel Hill	Firebird	Matador	Regiment II	Turbo
	Chesapeake	Focus	Matador GT	Rembrandt	Ultimate
	Constitution	Grande II	Millennium	Rendition	Watchdog
	Chipper	Greenkeeper	Montauk	Scorpion	Wolfpack
	Coronado	Greystone	Mustang 3	Shelby	
Kentucky Bluegrass	Alpine	Award	Champagne	Midnight	Showcase
	Apollo	Bariris	Chicago II	Midnight II	Sonoma
	Arcadia	Bedazzled	Envicta	Rugby	
	Arrow	Bordeaux	Impact	Rugby II	
Hard Fescue	Chariot	Kenblue	Oxford	Rhino	Stonehenge
	Firefly	Minotaur	Reliant II	Scaldis II	Warwick
	Heron	Nordic	Reliant IV	Spartan II	

On cut and fill slopes greater than 2:1 erosion control matting shall be installed.

Fertilizer shall be 10-20-20 analysis. A different analysis of fertilizer may be used provided the 1-2-2 ratio is maintained and the rate of application adjusted to provide the same amount of plant food as a 10-20-20 analysis and as directed.

Note: Consult Soil Conservation Service for additional information concerning other alternatives for vegetation of denuded areas. The above vegetation rates are those which do well under local conditions.

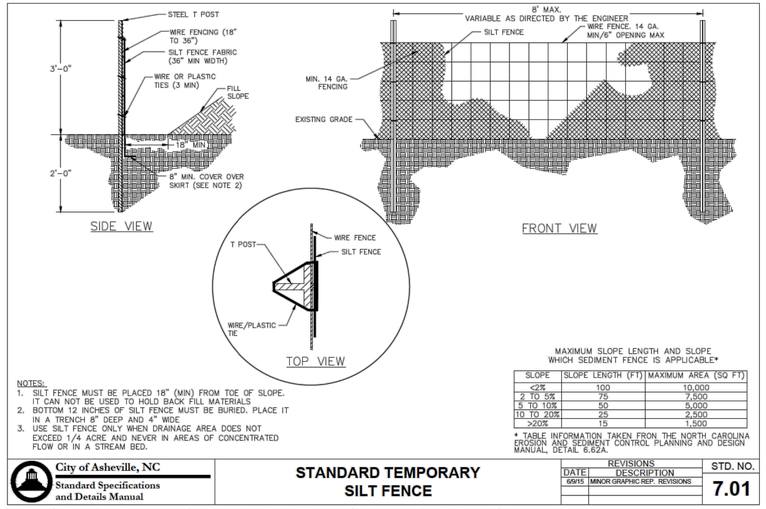
Temporary Seeding: Fertilizer shall be the same analysis as specified for Seeding and Mulching and applied at the rate of 400 pounds and seeded at the rate of 50 pounds per acre. German Millet or Browntop Millet shall be used in summer months and rye grain during the remainder of the year. The Engineer will determine the exact dates for using each kind of seed.

Fertilizer Topdressing: Fertilizer used for topdressing shall be 16-8-8 grade and shall be applied at the rate of 500 pounds per acre. A different analysis of fertilizer may be used provided the 2-1-1 ratio is maintained and the rate of application adjusted to provide the same amount of plant food as 16-8-8 analysis and as directed.

Supplemental Seeding: The kinds of seed and proportions shall be the same as specified for Seeding and Mulching, and the rate of application may vary from 25 to 75 pounds per acre. The actual rate per acre will be determined prior to the time of topdressing and the Contractor will be notified in writing of the rate per acre, total quantity needed, and areas on which to apply the supplemental seed. Minimum tillage equipment, consisting of a sod seeder shall be used for incorporating seed into the soil as to prevent disturbance of existing vegetation. A clodbuster (ball and chain) may be used where degree of slope prevents the use of a sod seeder.

Mowing: The minimum mowing height shall be six inches.

1 CITY OF ASHEVILLE: TEMPORARY SEEDING RECOMMENDATIONS
N.T.S



NOTES:
1. SILT FENCE MUST BE PLACED 18" (MIN) FROM TOE OF SLOPE. IT CAN NOT BE USED TO HOLD BACK FILL MATERIALS
2. BOTTOM 12 INCHES OF SILT FENCE MUST BE BURIED. PLACE IT IN A TRENCH 8" DEEP AND 4" WIDE
3. USE SILT FENCE ONLY WHEN DRAINAGE AREA DOES NOT EXCEED 1/4 ACRE AND NEVER IN AREAS OF CONCENTRATED FLOW OR IN A STREAM BED.

MAXIMUM SLOPE LENGTH AND SLOPE WHICH SEDIMENT FENCE IS APPLICABLE*

SLOPE	SLOPE LENGTH (FT)	MAXIMUM AREA (SQ FT)
<2%	100	10,000
2 TO 5%	75	7,500
5 TO 10%	50	5,000
10 TO 20%	25	2,500
>20%	15	1,500

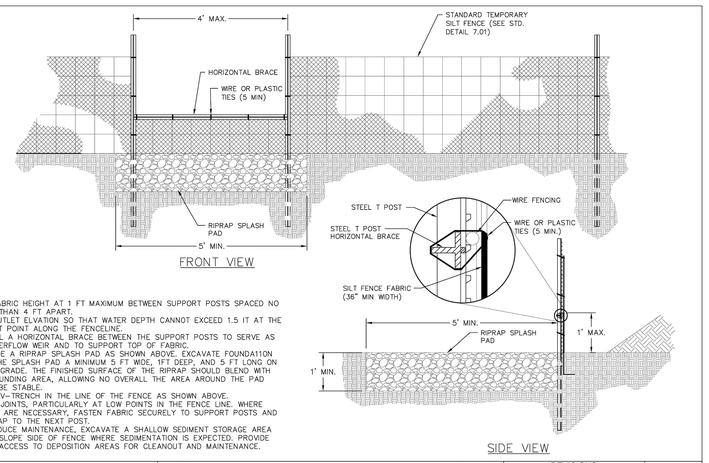
* TABLE INFORMATION TAKEN FROM THE NORTH CAROLINA EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL, DETAIL 6.62a.

City of Asheville, NC — Standard Specifications and Details Manual

STANDARD TEMPORARY SILT FENCE

REVISIONS DATE	DESCRIPTION	STD. NO.
05/15	MINOR GRAPHIC REP. REVISIONS	7.01

2 CITY OF ASHEVILLE: STANDARD TEMPORARY SILT FENCE
N.T.S



NOTES:
1. SET FABRIC HEIGHT AT 1 FT MAXIMUM BETWEEN SUPPORT POSTS SPACED NO MORE THAN 4 FT APART.
2. SET OUTLET ELVATION SO THAT WATER DEPTH CANNOT EXCEED 1.5 IT AT THE LOWEST POINT ALONG THE FENCELINE.
3. INSTALL A HORIZONTAL BRACE BETWEEN THE SUPPORT POSTS TO SERVE AS AN OVERFLOW WEIR AND TO SUPPORT TOP OF FABRIC.
4. PROVIDE A RIPRAP SPLASH PAD AS SHOWN ABOVE. EXCAVATE FOUNDA11ON FOR THE SPLASH PAD A MINIMUM 5 FT WIDE, 1FT DEEP, AND 5 FT LONG ON LEVEL GRADE. THE FINISHED SURFACE OF THE RIPRAP SHOULD BLEND WITH SURROUNDING AREA, ALLOWING NO OVERALL THE AREA AROUND THE PAD MUST BE STABLE.
5. DIG A V-TRENCH IN THE LINE OF THE FENCE AS SHOWN ABOVE.
6. AVOID JOINTS, PARTICULARLY AT LOW POINTS IN THE FENCE LINE. WHERE JOINTS ARE NECESSARY, FASTEN FABRIC SECURELY TO SUPPORT POSTS AND OVERLAP TO THE NEXT POST.
7. TO REDUCE MAINTENANCE, EXCAVATE A SHALLOW SEDIMENT STORAGE AREA ON UPSLOPE SIDE OF FENCE WHERE SEDIMENTATION IS EXPECTED. PROVIDE GOOD ACCESS TO DEPOSITION AREAS FOR CLEANOUT AND MAINTENANCE.

City of Asheville, NC — Standard Specifications and Details Manual

STANDARD TEMPORARY SILT FENCE WITH REINFORCED STABILIZED OUTLET

REVISIONS DATE	DESCRIPTION	STD. NO.
		7.01A

3 CITY OF ASHEVILLE: STANDARD TEMPORARY SILT FENCE OUTLET
N.T.S

NOTES:
1. THIS ENTRANCE APPLIES ONLY TO ENTRANCES FOR COMMERCIAL SITES.
2. FIRST 5' MUST DRAIN AWAY FROM THE STREET (MIN ¼" PER 1' FALL)
3. FLOW FROM PROJECT SHALL NOT ENTER THE PUBLIC STREET.
4. FABRIC MAY BE ADDED UNDER THE STONE WHICH WOULD ADD TOTAL LIFE TO THE CONSTRUCTION ENTRANCE.

City of Asheville, NC — Standard Specifications and Details Manual

COMMERCIAL CONSTRUCTION ENTRANCE

REVISIONS DATE	DESCRIPTION	STD. NO.
		7.03

4 CITY OF ASHEVILLE: COMMERCIAL CONTSRUCTION ENTRANCE
N.T.S

NOTES:
1. SILT FENCE IS NOT ACCEPTABLE IN PLACE OF HARDWARE CLOTH.
2. ONLY STEEL T-POST ARE ACCEPTABLE.
3. #57 WASHED STONE MUST BE A MIN 6" ABOVE THE TOP OF THE CATCH BASIN.
4. TEMPORARY SEDIMENT POOL MUST BE 1' MINIMUM AND 2' MAXIMUM DEPTH

City of Asheville, NC — Standard Specifications and Details Manual

STANDARD CATCH BASIN INLET PROTECTION

REVISIONS DATE	DESCRIPTION	STD. NO.
		7.11

5 CITY OF ASHEVILLE: STANDARD CATCH BASIN INLET PROTECTION
N.T.S

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SEAL

NORTH CAROLINA PROFESSIONAL SEAL 032956 ENGINEER TIMOTHY P. ORMOND 5/30/24

ISSUED

DATE ISSUED: MAY 30, 2024

DRAWN BY: RB

APPROVED BY: JO

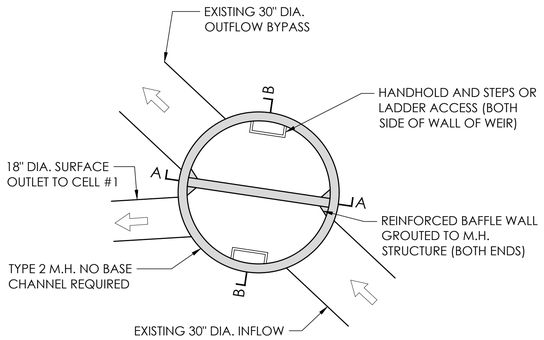
REVISIONS

SHEET TITLE

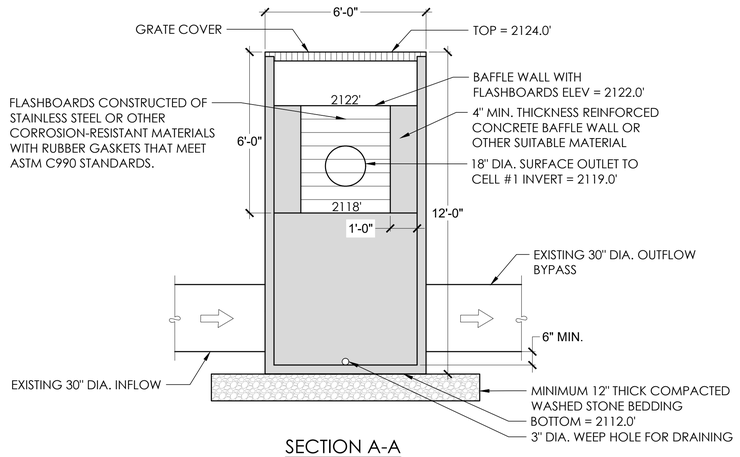
SEDIMENT AND EROSION CONTROL DETAILS

A-B TECH PARKING LOT STORMWATER RETROFIT
13 FACILITIES WAY
ASHEVILLE, NC

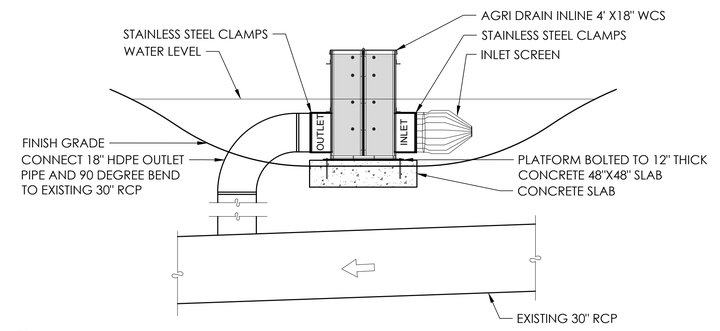
6.01



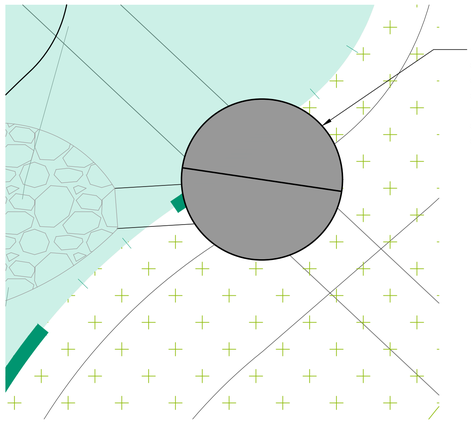
TOP VIEW



SECTION A-A

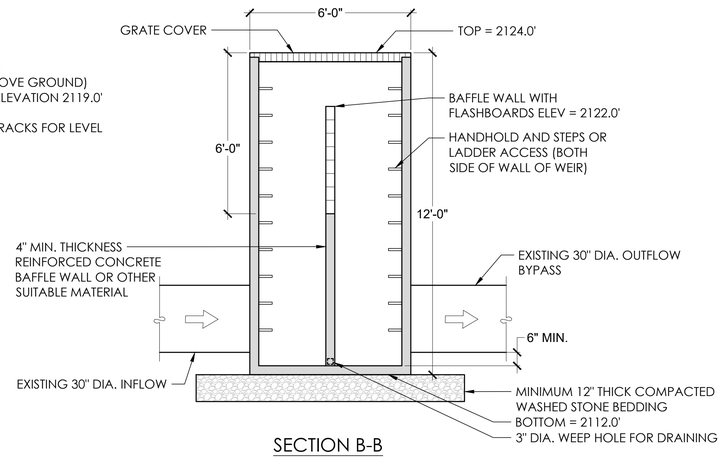


1 AGRI DRAIN
3/8" = 1'-0"



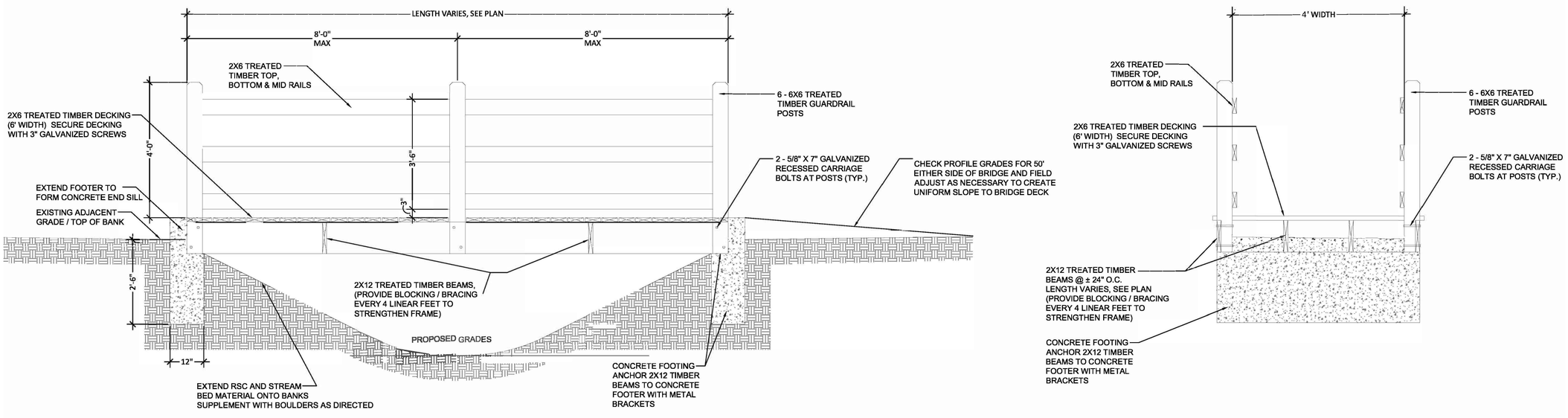
- 6 FT DIAMETER PRECAST TYPE 2 M.H.
- 12 FT HEIGHT
- INVERT 2112.0' (INTERCEPT EXISTING 30" PIPE)
- TOP OF MANHOLE 2124.0' (APPROX. 2-3' ABOVE GROUND)
- 18" DIAMETER OUTLET TO GI SYSTEM, SET AT ELEVATION 2119.0'
- BAFFLE WALL IN CENTER
- BAFFLE HAS ADJUSTABLE FLASHBOARDS IN TRACKS FOR LEVEL ADJUSTMENT

PLAN VIEW



SECTION B-B

1 FLOW SPLITTER
3/8" = 1'-0"



2 TIMBER BRIDGE
NOT TO SCALE

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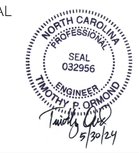

ISSUED

DATE ISSUED: MAY 30, 2024
DRAWN BY: RB
APPROVED BY: JO

REVISIONS

SHEET TITLE

SITE DETAILS

A-B TECH PARKING LOT STORMWATER RETROFIT
13 FACILITIES WAY
ASHEVILLE, NC

6.02