

Burlington Development Review Board

149 Church Street, City Hall
Burlington, VT 05401

www.burlingtonvt.gov/pz/DRB

Telephone: (802) 865-7188

Fax (802) 865-7195

Austin Hart
Brad Rabinowitz
Jonathan Stevens
Alexandra Zipparo
Israel Smith
AJ LaRosa
Geoff Hand

Wayne Senville, (Alternate)
Jim Drummond, (Alternate)



BURLINGTON DEVELOPMENT REVIEW BOARD

Tuesday April 19, 2016, 5:00 PM

Contois Auditorium, City Hall, 149 Church Street, Burlington, VT

AMENDED AGENDA

I. Agenda

II. Communications

III. Minutes

IV. Consent Agenda

- 1. 15-0339VR; 31 North Ave (RM-W, Ward 3) Cynthia W Smith**
Time extension on a variance from a front yard setback. Property fronts Depot Street. (Project Manager, Scott Gustin)
- 2. 15-0922CA/CU; 451 APPLETREE POINT ROAD (RL-W, Ward 4N) Cheryl L Senecal**
Amendment for demolition of existing structures, construct new single family home with accessory apartment and associated site improvements. Lot line adjustment included. (Project Manager, Scott Gustin)
- 3. 15-0923CA/CU; 465 APPLETREE POINT ROAD (RL-W, Ward 4N) Cheryl L Senecal**
Amendment to construct single family home with accessory apartment and associated site improvements. Includes lot line adjustment.
(Project Manager, Scott Gustin)

V. Public Hearing

- 1. 14-1181CA/CU; 8 College Street (RL-W, Ward 4) City of Burlington**
Amendment for bike Path rehabilitation, including phase 1 from Perkins Pier to North Beach. Also, improvements to Waterfront Park, including replacement lighting, potable water improvements, boardwalk renovation, and landscaping improvements.
(Project Manager, Scott Gustin)
- 2. 16-0845AP; 75 Grant Street (RH, Ward 2C) Priscilla R Toomey**
Notice of Appeal of zoning violation #301663 relative to parking.
(Project Manager, Jeanne Francis)
- 3. 16-0870AP; 124 Sunset Cliff Road (RL, Ward 4N) Joseph Kroger**
Appeal of Notice of Zoning Violation #298627 relative to a second unit in a single family home. (Project Manager, Jeanne Francis)

VI. Other Business

VII. Adjournment

Plans may be viewed in the Planning and Zoning Office, (City Hall, 149 Church Street, Burlington), between the hours of 8:00 a.m. and 4:30 p.m.

Participation in the DRB proceeding is a prerequisite to the right to take any subsequent appeal. Please note that ANYTHING submitted to the Planning and Zoning office is considered public and cannot be kept confidential.

The programs and services of the City of Burlington are accessible to people with disabilities. Individuals who require special arrangements to participate are encouraged to contact the Department of Planning & Zoning at least 72 hours in advance so that proper accommodations can be arranged. For information call 865-7188 (TTY users: 865-7142).
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This may not be the final order in which items will be heard. Please view final Agenda, at www.burlingtonvt.gov/pz/drb/agendas or the office notice board, one week before the hearing for the order in which items will be heard.

Department of Planning and Zoning

149 Church Street
Burlington, VT 05401
Telephone: (802) 865-7188
(802) 865-7195 (FAX)
(802) 865-7142 (TTY)

David White, AICP, Director
Meagan Tuttle, AICP, Comprehensive Planner
Jay Appleton, GIS Manager
Scott Gustin, AICP, CFM, Principal Planner
Mary O'Neil, AICP, Principal Planner
Ryan Morrison, CFM, Associate Planner
Anita Wade, Zoning Clerk
Elsie Tillotson, Department Secretary



TO: Development Review Board
FROM: Scott Gustin *SG*
DATE: April 19, 2016
RE: 14-1181CU/CA; 8 College Street et al

Note: These are staff comments only; decisions on projects are made by the Development Review Board, which may approve, deny, table or modify any project. THE APPLICANT OR REPRESENTATIVE MUST ATTEND THE MEETING.

Zone: UR, RCO-RG Ward: 3, 4

Owner/Applicant: City of Burlington & State of Vermont / Dept. of Parks & Recreation

Request: Amendment for bike Path rehabilitation from Perkins Pier to North Beach. Amendment pertains to work between skate park and North Beach.

Applicable Regulations:

Article 3 (Applications, Permits, & Project Review), Article 4 (Maps & Districts), Article 5 (Citywide General Regulations), Article 6 (Development Review Standards)

Background Information:

The applicant is seeking approval to amend the previously approved bike path reconstruction project. In large part the project remains unchanged. Work associated with this amendment is mostly contained in the Urban Reserve and extends from the newly constructed skate park northward almost to North Beach. Changes from the original zoning permit include:

- Establishment of 3 pause places (i.e. sitting areas)
- Tree cutting and new tree and shrub planting
- Shoreline stabilization work

Shoreline work extends into the Special Flood Hazard Area. As required, copies of the project plans were sent to the VT DEC floodplain management office for review and comment on March 29, 2016. No comments have yet been received. Any comments received within the 30-day comment period will be incorporated into this amendment.

The path itself and associated impervious surface removal and green area restoration remain essentially unchanged.

The proposed work traverses multiple properties and two zoning districts. It is reviewed collectively as one project.

The Conservation Board reviewed this project on April 4, 2016. The Board unanimously recommended approval of the project as presented.

Previous zoning permit actions for this property:

- 6/2/14, Approval of bike path reconstruction from Roundhouse Point to North Beach
- 10/3/12, Approval of repair and reinforcement north of Starr Farm Beach
- 5/3/12, Approval of bike path slope stabilization
- 6/19/97, Approval to widen bike path width from Starr Farm Rd to first overlook

Recommendation: Certificate of Appropriateness and Conditional Use approval as per, and subject to, the following findings and conditions:

I. Findings

Article 3: Applications and Reviews

Part 5, Conditional Use & Major Impact Review:

Conditional use review applies only to the section of work proposed within the Urban Reserve.

Part 5, Conditional Use & Major Impact Review:

Section 3.5.6

(a) Conditional Use Review Standards

Approval shall be granted only if the DRB, after public notice and public hearing, determines that the proposed conditional use and associated development shall not result in an undue adverse effect on each of the following general standards:

- 1. Existing or planned public utilities, facilities or services are capable of supporting the proposed use in addition to the existing uses in the area;*

The proposed changes in this amendment have no impact on public utilities, facilities, or services.

(Affirmative finding)

- 2. The character of the area affected as defined by the purpose or purposes of the zoning district(s) within which the project is located, and specifically stated policies and standards of the municipal development plan;*

The Urban Reserve consists of vacant former industrial land. The lake lies to the west. The bike path presently runs through the middle of the Reserve and, as previously permitted, will be repositioned to come closer to the lakeshore. The proposed amendment includes additional tree cutting and new tree planting. None of the work adversely impacts the character of the area as defined in the purpose statement for this district. **(Affirmative finding)**

- 3. The proposed use will not have nuisance impacts from noise, odor, dust, heat, and vibrations greater than typically generated by other permitted uses in the same zoning district;*

Nothing in the proposed amendment will bring about nuisance impacts from noise, odor, dust, heat, and vibrations. **(Affirmative finding)**

- 4. The transportation system is capable of supporting the proposed use in addition to the existing uses in the area. Evaluation factors include street designations and capacity; level of service and other performance measures; access to arterial roadways; connectivity; transit*

availability; parking and access; impacts on pedestrian, bicycle and transit circulation; safety for all modes; and adequate transportation demand management strategies;

The proposed amendment will have no adverse impact on vehicular, bicycle, or pedestrian traffic. **(Affirmative finding)**

and,

5. *The utilization of renewable energy resources;*

No part of this amendment request prohibits the use of wind, solar, water, geothermal or other renewable energy resource. **(Affirmative finding)**

and,

6. *Any standards or factors set forth in existing City bylaws and city and state ordinances;*

As the toe of the proposed shoreline work extends below 100' elevation, a state shorelands permit is likely required. The city has partial delegation of the shorelands program, but only above the 100' elevation. It is the applicant's responsibility to contact the State of Vermont to inquire as to shoreland permitting requirements. **(Affirmative finding as conditioned)**

(b) Major Impact Review Standards:
(Not applicable)

(c) Conditions of Approval:

In addition to imposing conditions of approval necessary to satisfy the General Standards specified in (a) or (b) above, the DRB may also impose additional conditions of approval relative to any of the following:

1. *Mitigation measures, including but not limited to screening, landscaping, where necessary to reduce noise and glare and to maintain the property in a character in keeping with the surrounding area.*

Nothing in this amendment is expected to generate offsite noise or glare substantial enough to require mitigation. **(Affirmative finding)**

2. *Time limits for construction.*

As with all zoning permits for work within the Urban Reserve, this amendment is valid for a period of 2-years. **(Affirmative finding as conditioned)**

3. *Hours of operation and/or construction to reduce the impacts on surrounding properties.*

The amendment materials do not specify days and hours of construction. The original zoning permit included construction hours of 7:00 AM – 6:00 PM, Monday – Saturday. Sundays and holidays are excluded. The same days and hours of construction should apply to construction associated with this amendment. **(Affirmative finding as conditioned)**

4. *That any future enlargement or alteration of the use return for review to the DRB to permit the specifying of new conditions; and,*

Any future enlargement or alteration will be reviewed under the zoning regulations in effect at that time.

5. Such additional reasonable performance standards, conditions and safeguards, as it may deem necessary to implement the purposes of this chapter and the zoning regulations.

See recommended conditions of approval.

Article 4: Maps & Districts

Sec. 4.4.6, Recreation, Conservation, and Open Space Districts:

(a) Purpose

(2) RCO-Recreation/Greenspace (RCO-RG)

The northern portion of work included in this amendment is located in the RCO-RG zone. This zone is intended primarily to provide a diversity of passive and active recreational opportunities. The proposed bike path work will contribute to future enjoyment of the path. **(Affirmative finding)**

(b) Dimensional Standards & Density

Lot coverage within the RCO-RG portion of this project will remain essentially unchanged. **(Affirmative finding)**

(c) Permitted & Conditional Uses

The outdoor recreational use is permitted in the RCO-RG zone and will not change. **(Affirmative finding)**

(d) District Specific Regulations

(Not applicable)

Sec. 4.4.7, Urban Reserve District:

(a) Purpose

Most of the work associated with this amendment is contained within the Urban Reserve. This district is intended to temporarily preserve a large portion of the city's lakeshore and to reserve the right of future generations to determine the most appropriate combination of development and conservation. There is provision for recreational use and public access to the Reserve.

(Affirmative finding)

(b) Dimensional Standards & Density

New lot coverage associated with realignment of the bike path through the Urban Reserve will be offset by removal of existing impervious surface. There will actually be a net decrease in lot coverage of 0.67 acre. **(Affirmative finding)**

(c) Permitted & Conditional Uses

No change in use is proposed. Provision is made to allow for public recreational paths through the Reserve. **(Affirmative finding)**

(d) District Specific Regulations

1. Any and all improvements in this district shall be consistent with any and all development and use restrictions and easements as may otherwise be applicable to the property.

The proposed amendment has no impact on this criterion. No change in use is proposed. The existing bike path will simply be realigned through the Urban Reserve. Continued use as a public

bike path appears to be consistent with restrictions and easements affecting the property.
(Affirmative finding)

2. Any authorization granted by the DRB shall include a prescribed duration for the activity after which such authority and all related permits shall expire. The DRB may consider an extension of this time period if such a request has been made prior to expiration. No permit should remain in effect for more than 2 years without reapplication and review pursuant to this section.

The previous bike path reconstruction permit was granted and valid for 2 years. It will expire July 2, 2016. This amendment will take its place for another 2 years for work in the Urban Reserve and northward towards North Beach. **(Affirmative finding as conditioned)**

3. As a condition of any approval by the DRB for projects involving temporary construction staging or seasonal snow storage, the site shall be restored to its prior condition once the temporary activity has been completed for which the DRB may require a bond or other necessary surety in a form satisfactory to the city attorney.

(Not applicable)

Sec. 4.5.4, Natural Resource Protection Overlay District:

(a) District Specific Regulations: Special Flood Hazard Area

As part of this amendment, work within the Special Flood Hazard Area consists of three primary components:

- Shoreline revetment reconstruction (rebuild failed shoreline stone armoring)
- Shoreline stabilization (fill, vegetation, and some armoring)
- Pause place (staircase for access to the shoreline and water)

(7) Special Review Criteria

A. The danger to life and property...

Some of the shoreline work will extend into the lakeshore flood hazard area. Most of the construction involves placement (or replacement) of stone for stabilization and (regarding the stairs) access. Lakeshore flood dynamics are unlike those of river flood dynamics. The water does not flow at perceptible speeds and is not subject to constriction. Placement of the stone within the lakeshore flood zone will have no impact on flood heights or velocities. **(Affirmative finding)**

B. The danger that material may be swept onto other lands...

All of the construction within the flood zone will consist of large or medium size stone and will be anchored into the ground. There is little danger that the stone work will be swept away by flood waters. **(Affirmative finding)**

C. The proposed water supply and sanitation systems...

Not applicable.

D. The susceptibility of the proposed facility and its contents to flood damage...

The stone work is a protective measure against flood and storm damage to the Urban Reserve. The potential for flooding damage to the stone itself is minimal. **(Affirmative finding)**

E. The importance of the services provided...

The Urban Reserve is important to the Burlington community. Strengthening its shoreline will provide substantial protection to this property. **(Affirmative finding)**

F. The availability of alternative locations...

The point of the shoreline work is protect the property from flood and storm damage. Its placement within the flood zone is key to this function. It's location within the floodplain is acceptable. **(Affirmative finding)**

G. The compatibility of the proposed use with existing development...

Stone rip rap is commonplace along Burlington's lakeshore, including that within the Urban Reserve. **(Affirmative finding)**

H. The relationship of the proposed use to the Municipal Development Plan...

No new use is contained within this proposal. The bike path will be reconstructed and the existing armored shoreline will be repaired and stabilized. Insofar as there is provision for recreational use and public access to the Urban Reserve, the proposal can be found in compliance with the MDP. **(Affirmative finding)**

I. The safety of access to the property...

The shoreline work will have no effect on the safety of access to the property during times of flood. **(Affirmative finding)**

J. The expected heights, velocity, duration, rate of rise...

The maximum regulatory flood elevation along the lakeshore is 102' above sea level. The shoreline work will have no impact on flood heights, velocity, duration, rate of rise, or sediment transport. **(Affirmative finding)**

K. Conformance with all other applicable requirements...

See Articles 4, 5, and 6 of these findings.

(c) District Specific Regulations: Riparian and Littoral Conservation Zone

The subject property is affected by the Riparian and Littoral Conservation Zone (250' width from the 100' lakeshore elevation). This overlay zone limits the clearing of vegetation and new stormwater outfalls. This amendment includes the removal of 52 trees and some scrub growth within this overlay zone. Tree cutting is generally limited to that necessary for construction of the adjusted bike path route. New plantings consist of 150 trees and 160 shrubs. No new stormwater outfalls are proposed. As noted previously, the Conservation Board reviewed this proposal April 4, 2016 and unanimously recommended approval. **(Affirmative finding)**

Article 5: Citywide General Regulations

Sec. 5.2.3, Lot Coverage Requirements

See Article 4 above.

Sec. 5.2.4, Buildable Area Calculation
(Not applicable)

Sec. 5.2.5, Setbacks

See Article 4 above.

Sec. 5.2.6, Building Height Limits

See Article 4 above.

Sec. 5.2.7, Density and Intensity of Development Calculations

See Article 4 above.

Sec. 5.5.1, Nuisance Regulations

Nothing in the proposed amendment appears to constitute a nuisance under this criterion. The use as a public bike path will remain unchanged. **(Affirmative finding)**

Sec. 5.5.2, Outdoor Lighting

(Not applicable)

Sec. 5.5.3, Stormwater and Erosion Control

This amendment contains details relative to stormwater management and erosion control. These measures appear essentially the same as originally approved. Approval of the amended project plans has been granted by the Stormwater Administrator. **(Affirmative finding)**

Article 6: Development Review Standards

Part 1, Land Division Design Standards

(Not applicable)

Part 2, Site Plan Design Standards

Sec. 6.2.2, Review Standards

(m) Landscaping and fences

No formal landscaping is included in this amendment. As noted previously, some existing trees will be removed and new trees and shrubs will be planted. Generally, wooded areas will remain wooded. No new fencing is included in this proposal. **(Affirmative finding)**

Part 3, Architectural Design Standards

Sec. 6.3.2, Review Standards

(Not applicable)

II. Conditions of Approval

1. Days and hours of construction shall be limited to Monday – Saturday, 7:00 AM – 6:00 PM. Sundays and holidays are excluded. Modification of these hours shall require the approval of the Development Review Board and may take place via correspondence.
2. A State of Vermont shoreland protection permit, as administered by VT ANR, may be required.
3. This approval incorporates timely comments and stipulations issued by the State National Floodplain Insurance Program Coordinator at VT DEC as related to this project.
4. Approval Conditions Per Sec. 4.5.4, Natural Resource Overlay (f) District Specific Regulations: Special Flood Hazard Area, 8

In all Special Flood Hazard Areas (including Floodway areas) such conditions require that:

C. All development:

- (i) New construction and/or substantial improvements to structures shall be

reasonably safe from flooding and be:

1. Designed and adequately anchored to prevent flotation, collapse, or lateral movement during the occurrence of the base flood;
 2. Constructed of materials resistant to flood damage;
 3. Constructed by methods and practices that minimize flood damage; and
 4. Constructed with electrical, heating, ventilation, plumbing and air conditioning equipment and other service facilities that are designed and/or located so as to prevent water from entering or accumulating within the components during conditions of flooding;
- (ii) All development shall be designed to minimize flood damage to the proposed development and to public facilities and utilities;
- (iii) All development shall be designed to provide adequate surface drainage to reduce exposure to flood hazards;
- (iv) All new construction and substantial improvements that have fully enclosed areas below the lowest floor shall: (Not applicable)
- (v) All necessary permits be obtained from those governmental agencies from which approval is required by federal or state law.
- D. Residential Development: (Not applicable)
- E. Non-Residential Development: (Not applicable)
- F. Water Supply Systems: (Not applicable)
- G. On-Site Waste Disposal Systems: (Not applicable)
- H. Recreational Vehicles: (Not applicable)
5. The Applicant/Property Owner is responsible for obtaining all necessary Zoning Permits and Building Permits through the Department of Public Works as well as other permit(s) as may be required, and shall meet all energy efficiency codes as required.
6. Standard conditions 1-15.



March 23, 2016

Ref: 57634.00

Scott Gustin, AICP, CFM
Senior Planner
Department of Planning and Zoning
City Hall, 149 Church Street
Burlington, VT 05401

Re: Application to Amend Zoning Permit #14-1181CA/CU – Burlington Bike Path Rehabilitation Phase 1

Dear Scott:

On behalf of Burlington Parks, Recreation & Waterfront ("Applicant" or "BPRW"), VHB has prepared the enclosed application for an amendment to Zoning Permit #14-1181CA/CU, issued July 2, 2014 for Phase 1 of construction for the Burlington Bike Path Rehabilitation Project ("Project"). This amendment application addresses Project activities within the Riparian and Littoral Conservation Zone ("Riparian Zone") and the Special Flood Hazard Area ("SFHA") pursuant to Section 4.5.4 of the City's zoning ordinance. The original 2014 application for the subject Zoning Permit did not include provisions relative to these two components of the Natural Resource Protection Overlay District ("NR District") because the scope of shoreline reconstruction and other activities within the Riparian Zone and SFHA had not been fully developed at that time. This amendment request applies to Phase 1B of the overall Project, which is generally bounded by the Urban Reserve through the entrance to North Beach Park.

This application includes the following materials, which have also been provided electronically on the enclosed thumb drive:

- Signed Basic Zoning Permit Application Form;
- Signed City Erosion Prevention and Sediment Control Plan ("EPSC") Form;
- Burlington Bike Path Rehabilitation Project – Phase 1B Plan Set (includes plan set for existing and proposed conditions, erosion prevention and sediment control, revegetation);
- Select Plan Sheets depicting Project activities within the NR District; and
- Site Location Map.

Project Description

The overall Project encompasses the entire length of the Burlington Bike Path; roughly 7.9 miles from Austin Drive to the Winooski River Bridge. The Applicant was granted prior approval for Phase 1 construction, from Perkins Pier through North Beach through Zoning Permit #14-1181CA/CU. Phase 1a construction was completed in the summer of 2015 and included

approximately 1.70 miles of path rehabilitation from Perkins Pier through Waterfront Park. Phase 1b, slated

40 IDX Drive, Building 100
Suite 200

Engineers | Scientists | Planners | Designers

South Burlington, Vermont 05403

P 802.497.6100

F 802.495.5130



for construction in summer of 2016 will run through the Urban Reserve to North Beach. This request serves to amend the existing permit for activities within the two Natural Resource Districts noted above, as well as to review the inclusion of three "pause place" locations into the Project design, one at Texaco Beach, the second proximate to the north end of the existing dog park, and the third proximate to the deep water access. The proposed pause places have been included in the final design to enhance the user experience on this heavily traveled portion of the Bike Path and offer designated locations for information kiosks, fitness equipment, and lake access. There have been no other substantial changes in the Project design since the original application for Zoning Permit #14-1181CA/CU.

Proposed Activities by NR District

Special Flood Hazard Area

Proposed Project construction within the SFHA is generally minimal, and is largely limited to the replacement of existing shoreline revetments. The Federal Emergency Management Agency ("FEMA") defines a base flood elevation of 102 feet NAVD88 for Lake Champlain, and as such all Project activities which are proposed below that elevation are the subject of this permit amendment application. In summary, Project construction which is proposed in the SFHA would total approximately 300 cubic yards of fill and include the following, which correspond with identified station numbers on the enclosed Site Plans:

1. **Revetment Reconstruction:** reconstruction of the stone shoreline revetment in three distinct areas that have been compromised by storm damage, specifically from STN155+94 to STN157+50, STN157+50 to Sta162+00, and STN163+45 to STN165.13 (see Photograph 1).
2. **Shoreline Stabilization:** involves a less intensive stabilization of the shoreline in the area between STN 155+94 and STN 157+50 where shoreline recession is occurring at the top of a course of stone armoring, at its interface with the adjoining, vegetated surface of the Urban Reserve (see Photograph 2).
3. **Pause Place:** construction of a staircase as a "pause place" for bike path users to exit the path to access the shoreline and lake edge (STN152+90).

For these activities, only approximately 19 cubic yards of fill for construction of the stairs for the southern pause place located approximately at Station 152+90, represents the addition of new material placed in the SFHA. The other work within the SFHA is the reconstruction of existing shoreline revetments and shoreline stabilization. For revetment reconstruction, the eroded sections of the revetment will be reconstructed in a manner similar to their original construction; will not extend any farther lakeward than their original footprint, and will tie into the adjoining and intact revetment such that the finished elevation is consistent with prior conditions. The lowest elevation for the extent of revetment reconstruction within the SFHA, as depicted on the enclosed typical cross section, is approximately 92.9 feet NAVD88.

For shoreline stabilization, a relatively thin course of rock will be placed to stabilize the exposed and receding erosional scarp at the top of the stone armoring (+/-104' NAVD88) and will extend to +/-98.5' NAVD88. This application will fill in areas that have slumped and eroded due to wave activity, and will approximate the prior limits of the shoreline armoring. It is possible that this activity will result in the addition of new fill to this area, however most of that new material would be above the base flood elevation (102' NAVD88) to stabilize the receding shoreline at the very top of the armoring.



Photograph 1. Representative view of compromised stone revetment in Urban Reserve.
Intact revetment visible in background (Date: 6/1/14)



Photograph 2. View of shoreline just south of jetty in Urban Reserve.
Actively eroding and receding shoreline can be seen at the top of the armor, photo left (Date: 3/16/16).



The proposed application of new stone will avoid impinging on the relatively granular beach that has developed just south of where the jetty ties into the shoreline and will be conducted in a manner that limits the removal of trees from the area as depicted on sheet 5 and 6 of the enclosed Site Plans.

Based on the limited volume of new fill proposed for the pause place relative to the overall SFHA area and the fact that revetment reconstruction and shoreline stabilization are activities that restore a prior condition, VHB believes that Project activities within the SFHA represent an insignificant decrease in the amount of floodplain storage and that compensatory storage is not required for this Project.

Riparian and Littoral Zone

Because of the realignment of the Bike Path in the Urban Reserve as described in the original application for Zoning Permit #14-1181CA/CU, the Project will necessarily include a number of activities within the Riparian Zone, defined in the City's Zoning ordinance as the area extending 250 feet laterally from the shoreline elevation of 100 feet above sea level. The Project components that would occur within the Riparian Zone include the following, which can generally be framed into the City's Zoning ordinance requirements in Section 4.5.4(c) to address erosion prevention and sediment control ("EPSC"), stormwater management, and the removal of woody vegetation:

- Removal of the existing bike path surface, and reconstruction and realignment of a portion of bike path into an 11 foot wide bituminous surface with 2 foot gravel shoulders for a total length of approximately 0.73 mile within the Riparian Zone. This includes areas both within the Urban Reserve and north to the end of Phase 1B (though this latter section in
- Reconstruction of revetments and shoreline stabilization along approximately 273 linear feet of shoreline (described previously);
- Tree cutting of up to approximately 52 trees that are greater than approximately 8 inches diameter at breast height ("DBH"), as well as shrubs and woody brush, which represents only approximately 0.95 acre of tree canopy cover removal;
- Permanent removal of approximately 0.67 acre (29,185 square feet) of existing impervious surface (bituminous pavement and concrete), followed by the placement of topsoil, seeding and woody vegetation planting;

Erosion Prevention and Sediment Control

There is an EPSC Plan for Phase 1B which has been prepared consistent with the Department of Environmental Conservation ("DEC") Construction General Permit 3-9020, Part 4.1(C) and Appendix B of GP 3-9020 as guidance. The EPSC Plan was prepared in conformance with the most recent edition of the *Vermont Standards and Specifications for Erosion Prevention and Sediment Control* (2006, Amended 2008). The total area of proposed earth disturbance associated with these activities is 9.0 acres. The EPSC Plan that has been prepared for the Project includes: (1) an existing conditions site plan with existing topography; (2) an EPSC Plan with an overlay of major Project components, including proposed grading, infrastructure, and EPSC measures; and (3) a final stabilization plan. In addition to other information, the EPSC Plan provides the contractor with specific instruction for construction and stabilization activities during the regular construction seasons. The EPSC Plan also provides the contractor with information specific to EPSC measures to be installed if construction activities are occurring within 50 feet of water resource areas (e.g., streams and wetlands). Lastly, the EPSC Plan provides the contractor with instructions to be followed in



anticipation of rainfall and/or thaw events in order to minimize the potential for erosion and, in turn, maintain sediment on-site to the extent feasible.

The Project will submit to the DEC Stormwater Program an application for coverage under General Permit 3-9020. In addition, BPRW has signed a City of Burlington EPSC Plan form, enclosed, which is subject to review and approval by the City Department of Public Works, Stormwater Management.

Stormwater Management

The project qualifies for consideration under the Stormwater Procedure for Public Linear Transportation Projects as a project involving relatively minor changes in the location of impervious surfaces. Under existing conditions, stormwater from 2.54 impervious acres runs off to adjacent pervious areas via sheet flow. The Project includes 1.87 acres of redeveloped impervious surfaces, largely for reconstruction of the bike path itself. The Project will result in 1.25 acres of impervious surfaces where pervious surfaces previously existed, which as a linear project is included in the redeveloped acreage above. Overall, the Project will result in a net reduction of 0.67 acres of impervious surface. Compared to existing conditions, this represents a 26 percent reduction, which can be interpreted to mean that natural stormwater infiltration would be enhanced following as a result of the Project. Proposed impervious surface conditions are shown on the Jurisdictional Areas figures, included in the Project's Individual Permit to Discharge Stormwater ("INDS") to be submitted for State approval following City review and approval. During extreme storm events, excess stormwater runoff from the Project's impervious surfaces that does not infiltrate to groundwater on adjacent vegetated surfaces will overflow towards Lake Champlain, considered S/N 001 for the purposes of the INDS application. The proposed Phase 1B construction occurs in one subwatershed; Subwatershed 1, which includes the entire Project area from just south of Lake Street to North Beach within the City limits of Burlington.

Because the land surrounding the Project has sufficient adjacent vegetated, pervious surfaces and the orientation of the Project poses a challenging scenario for the design of traditional stormwater treatment, no constructed stormwater management practices are proposed for Phase 1B. One single cross culvert is proposed at approximately Station 155+95 to alleviate the potential for ponding of excess runoff from pervious surfaces adjacent to the path, which would direct precipitation runoff generally west towards the Lake. The proposed redevelopment project has been designed to meet the applicable criteria of the Vermont Stormwater Management Manual ("VSMM"), which includes only Water Quality (WQv).

Vegetation Clearing

Proposed woody vegetation cutting, as depicted on the enclosed Site Plans, has been minimized to only what is necessary for Phase 1B construction and safe operation of equipment during construction. Tree cutting has been further limited within each cutting area to conserve mature and maturing trees, with proposed cutting concentrated to clumps of saplings and shrubs where possible. In order to assess any potential impact to threatened and endangered bat species, the Project conducted outreach to the Vermont Department of Fish and Wildlife ("FWD") regarding the extent and location of proposed tree clearing. The FWD confirmed that they have no concern regarding impacts to protected bat species or their summer roosting habitat from the Project's proposed tree clearing.¹ In order to mitigate for tree cutting

¹ Bennett, Alyssa, Small Mammal Biologist, Vermont Fish and Wildlife Department. January 29, 2016, personal communication.



and as part of the overall Project's aesthetic plan and EPSC measures summarized above, revegetation in the form of seeding of all areas of disturbed ground surface, including areas where impervious surfaces will be removed, is proposed. Re-establishment of woody cover is also included and is shown on the enclosed Site Plans. Woody vegetation planting will not always occur where it has been cleared, but rather will concentrate reforestation measures to areas that have been determined by the City's arborist. The tree and shrub planting would install 150 trees and another 160 shrubs within the Project's Phase 1B extent, which represents a net gain in woody vegetation post-construction of the Project when compared to the necessary tree cutting for construction.

Conditional Use Review Standards

Because the new proposed alignment of the Bike Path will intersect the Riparian Zone, the Applicant hereby agrees to conform to the requirements listed in Section 4.5.4 (c) 4. of the Zoning Ordinance. Furthermore, because of these proposed activities within an NR Overlay District, the Applicant understands that this Application is subject to review and approval pursuant to the Conditional Use review provisions of Article 3. A response to Section 3.5.6 (a) 1-5 is provided below.

Capacity of Existing or Planned Community Facilities

The Project will have no undue adverse effect on existing or planned community facilities. By its nature, the Bike Path rehabilitation will encourage community recreation and appreciation of the waterfront area and promote healthy lifestyles.

Character of the Area

The realignment of the Bike Path in the UR represents passive use of a publically accessible open space, consistent with Section 4.4.7 of the Zoning Ordinance. The Applicant believes the proposed realignment of the Bike Path in the UR is consistent with Section 4.4.7. (c) 4), which allows for the following conditionally permitted use:

Existing public recreational paths and railroad facilities and their necessary maintenance.

Traffic on Roads and Highways

It is not anticipated that the Project will result in any increased traffic demand such that an undue adverse effect would occur. Though the improvements will likely attract more visitors to the Bike Path, this would occur gradually over time.

City Bylaws and City and State Ordinance

The Project will be constructed and operated in accordance with all applicable City Bylaws and City and State Ordinance.

The Utilization of Renewable Energy Resources

Mr. Scott Gustin
Ref: 57634.00
Page 7 of 7
March 23, 2016



Generally speaking, the Bike Path is not a consumptive use of energy. Accordingly, there is little opportunity for employing renewable energy resources.

We appreciate your assisting in reviewing this application and look forward to the opportunity to discuss the Project before the Conservation Board (April 4, 2016) and Development Review Board (April 19, 2016).

Sincerely,

A handwritten signature in blue ink, appearing to read "B. Ketterling".

Brad Ketterling
Senior Environmental Scientist

DBK/CAF/jkw

Cc: Jesse Bridges, Director and Harbormaster, Burlington Parks, Recreation & Waterfront

CITY OF BURLINGTON
BURLINGTON PARKS, RECREATION & WATERFRONT



PROPOSED IMPROVEMENT
BURLINGTON BIKE PATH
REHABILITATION PROJECT
PHASE 1B

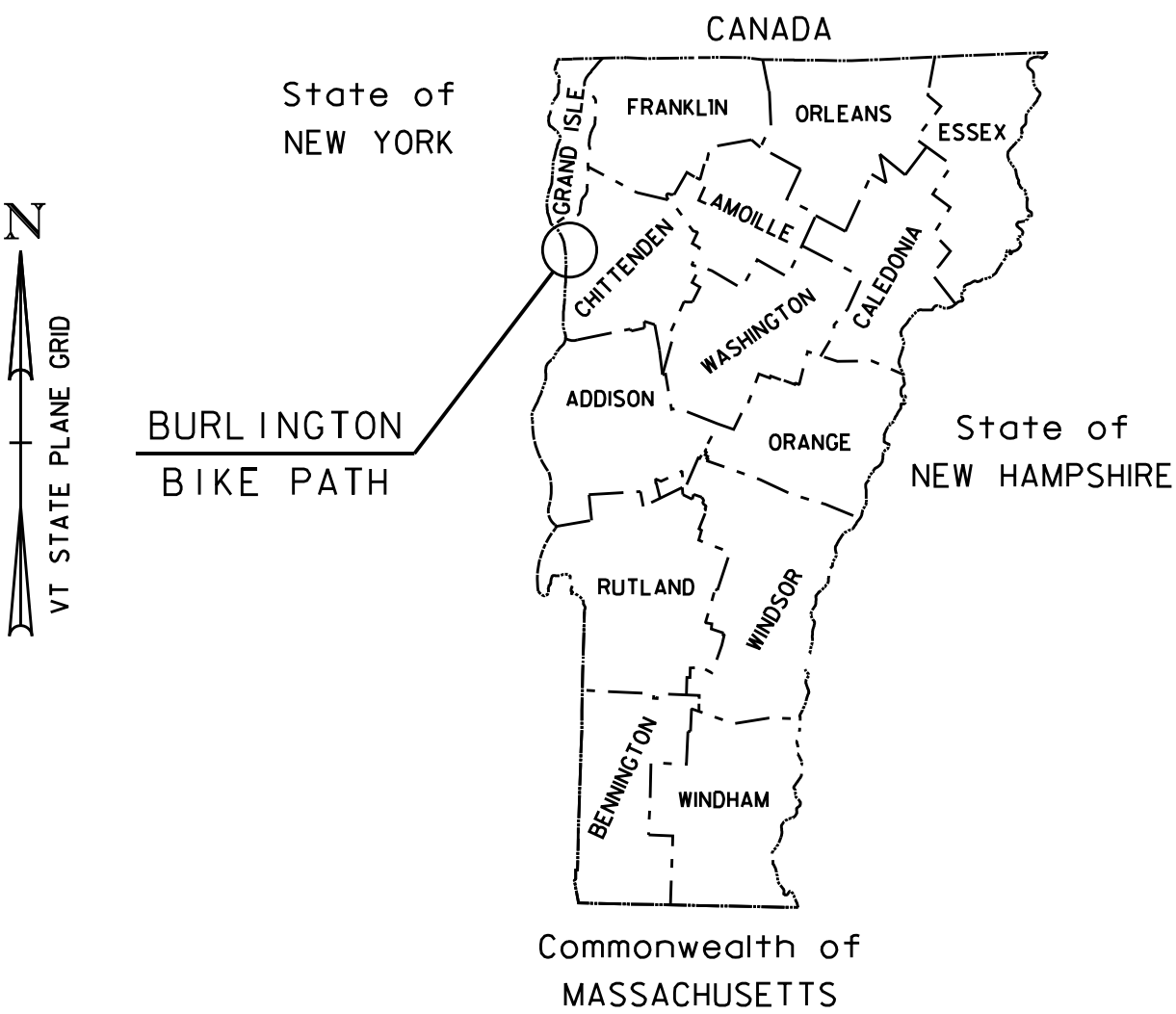
CITY OF BURLINGTON
COUNTY OF CHITTENDEN

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- 6. PROJECT NOTES
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- 11-16. DETAIL SHEETS
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- 18-28. ALIGNMENT SHEETS
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- 59-78. PATH CROSS SECTIONS
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- 81-82. TRAFFIC CONTROL PLANS
- 83. EPSC NARRATIVE
- 84-87. EPSC DETAILS
- 88-98. EPSC EXIST. CONDITIONS PLANS
- 99-109. EPSC PLANS
- 110-120. EPSC FINAL CONDITIONS

LIST OF STANDARDS

A-80	SHARED USE PATH DETAILS	03-31-2004
B-5	SLOPE GRADING, EMBANKMENTS, MUCK	06-01-1994
E-195	SHARED USE PATH PAVEMENT MARKINGS AND SIGN DETAILS	06-09-2008
F-2	CHAIN LINK FENCE, TYPE I DETAILS	06-01-1994
F-6	CHAIN LINK SCREENING FENCE TYPE I & II DETAILS	06-01-1994

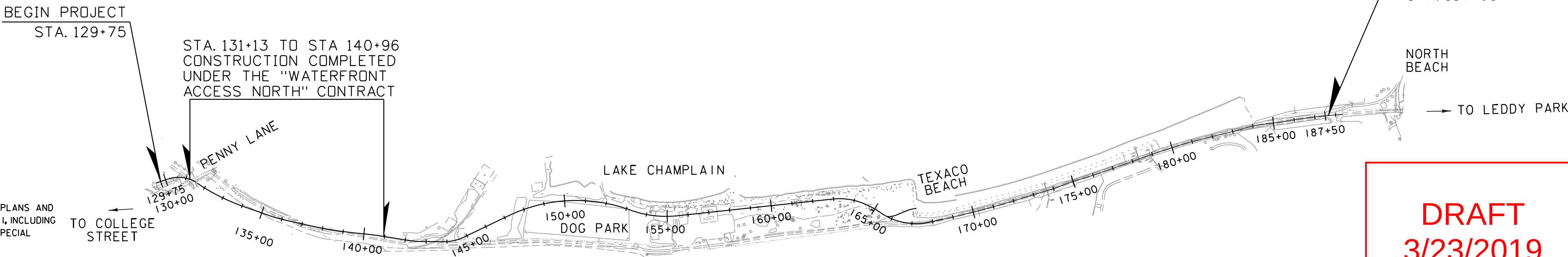


CONTRACT PLANS (100%)
MARCH 2016

PROJECT LOCATION: LOCATED IN THE COUNTY OF CHITTENDEN, CITY OF BURLINGTON, THE PROJECT BEGINS AT A POINT APPROXIMATELY 150 FEET SOUTH OF THE INTERSECTION OF PENNY LANE AND THE BIKE PATH AT STATION 129+75. THE PROJECT CONTINUES TO STATION 131+13 AT WHICH POINT THE BIKE PATH FROM THERE NORTH TO STATION 140+96 HAS BEEN CONSTRUCTED UNDER THE "WATERFRONT ACCESS NORTH" CONTRACT. THE PATH THEN FOLLOWS ALONG LAKE CHAMPLAIN AND EXTENDS NORTHERLY PAST THE URBAN RESERVE TO STATION 187+65 AT THE ENTRANCE TO NORTH BEACH.

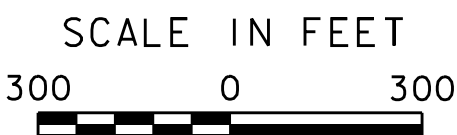
PROJECT DESCRIPTION: WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES PATH REALIGNMENT, CLEARING VEGETATION, REMOVING CONCRETE AND BITUMINOUS PAVEMENT, RE-GRADING, PAVEMENT MARKINGS, REHABILITATION TO "TEXACO BEACH" AREA AND OTHER PATH IMPROVEMENTS.

LENGTH OF PROJECT: 0.91 MILES (4,807 FEET)



CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE VTRANS STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2011, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THIS CONTRACT.

SURVEYED BY :	VHB ALDRICH + ELLIOT, PC BUTTON PROFESSIONAL LAND SURVEYORS, PC CROSS CONSULTING ENGINEERS
SURVEYED DATE :	AUGUST 2013, AUGUST 2015
DATUM	
VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (07)



DRAFT
3/23/2019

PROJECT MANAGER :	JEN FRANCIS
PROJECT NAME :	BURLINGTON BIKE PATH
PROJECT NUMBER :	57634.00
SHEET 1 OF 119 SHEETS	



GENERAL INFORMATION

SYMBOLOLOGY LEGEND NOTE

THE SYMBOLOLOGY ON THIS SHEET IS INTENDED TO COVER STANDARD CONVENTIONAL SYMBOLOLOGY. THE SYMBOLOLOGY IS USED FOR EXISTING & PROPOSED FEATURES WITH HEAVIER LINEWEIGHT, IN COMBINATION WITH PROJECT ANNOTATION, AS NOTED ON PROJECT PLAN SHEETS. THIS LEGEND SHEET COVERS THE BASICS. SYMBOLOLOGY ON PLANS MAY VARY, PLAN ANNOTATIONS AND NOTES SHOULD BE USED TO CLARIFY AS NEEDED.

R.O.W. ABBREVIATIONS (CODES) & SYMBOLS

POINT	CODE	DESCRIPTION
	CH	CHANNEL EASEMENT
	CONST	CONSTRUCTION EASEMENT
	CUL	CULVERT EASEMENT
	D&C	DISCONNECT & CONNECT
	DIT	DITCH EASEMENT
	DR	DRAINAGE EASEMENT
	DRIVE	DRIVEWAY EASEMENT
	EC	EROSION CONTROL
	HWY	HIGHWAY EASEMENT
	I&M	INSTALL & MAINTAIN EASEMENT
	LAND	LANDSCAPE EASEMENT
	R&RES	REMOVE & RESET
	R&REP	REMOVE & REPLACE
	SR	SLOPE RIGHT
	UE	UTILITY EASEMENT
	(P)	PERMANENT EASEMENT
	(T)	TEMPORARY EASEMENT
■	BDNS	BOUND SET
▣	BDNS	BOUND TO BE SET
●	IPNS	IRON PIN SET
⊙	IPNS	IRON PIN TO BE SET
⊠	CALC	EXISTING ROW POINT
○	PROW	PROPOSED ROW POINT
[LENGTH]		LENGTH CARRIED ON NEXT SHEET

COMMON TOPOGRAPHIC POINT SYMBOLS

POINT	CODE	DESCRIPTION
⌘	APL	BOUND APPARENT LOCATION
◻	BM	BENCH MARK
▣	BND	BOUND
▣	CB	CATCH BASIN
⊕	COMB	COMBINATION POLE
▣	DITHR	DROP INLET THROATED DNC
⊕	EL	ELECTRIC POWER POLE
⊙	FPOLE	FLAGPOLE
○	GASFIL	GAS FILLER
○	GP	GUIDE POST
⌘	GSO	GAS SHUT OFF
⊙	GUY	GUY POLE
⊙	GUYW	GUY WIRE
⌘	GV	GATE VALUE
⊗	H	TREE HARDWOOD
△	HCTRL	CONTROL HORIZONTAL
▲	HVCTRL	CONTROL HORIZ. & VERTICAL
◇	HYD	HYDRANT
⊙	IP	IRON PIN
⊙	IPIPE	IRON PIPE
⊕	LI	LIGHT - STREET OR YARD
⊕	MB	MAILBOX
○	MH	MANHOLE (MH)
▣	MM	MILE MARKER
⊙	PM	PARKING METER
▣	PMK	PROJECT MARKER
⊙	POST	POST STONE/WOOD
⊕	RRSIG	RAILROAD SIGNAL
⊕	RRSL	RAILROAD SWITCH LEVER
⊕	S	TREE SOFTWOOD
⊕	SAT	SATELLITE DISH
⊕	SHRUB	SHRUB
⊕	SIGN	SIGN
⊕	STUMP	STUMP
⊕	TEL	TELEPHONE POLE
⊙	TIE	TIE
⊕	TSIGN	SIGN W/DOUBLE POST
⊕	VCTRL	CONTROL VERTICAL
⊙	WELL	WELL
⌘	WSO	WATER SHUT OFF

THESE ARE COMMON VAOT SURVEY POINT SYMBOLS FOR EXISTING FEATURES, ALSO USED FOR PROPOSED FEATURES WITH HEAVIER LINEWEIGHT, IN COMBINATION WITH PROPOSED ANNOTATION.

PROPOSED GEOMETRY CODES

CODE	DESCRIPTION
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
CC	CENTER OF CURVE
PT	POINT OF TANGENCY
PCC	POINT OF COMPOUND CURVE
PRC	POINT OF REVERSE CURVE
POB	POINT OF BEGINNING
POE	POINT OF ENDING
STA	STATION PREFIX
AH	AHEAD STATION SUFFIX
BK	BACK STATION SUFFIX
D	CURVE DEGREE OF (100FT)
R	CURVE RADUIS OF
T	CURVE TANGENT LENGTH
L	CURVE LENGTH OF
E	CURVE EXTERNAL DISTANCE

UTILITY SYMBOLOLOGY

UNDERGROUND UTILITIES		
— UT —	· · · · ·	TELEPHONE
— UE —	· · · · ·	ELECTRIC
— UC —	· · · · ·	CABLE (TV)
— UEC —	· · · · ·	ELECTRIC+CABLE
— UET —	· · · · ·	ELECTRIC+TELEPHONE
— UCT —	· · · · ·	CABLE+TELEPHONE
— UECT —	· · · · ·	ELECTRIC+CABLE+TELEP.
— G —	· · · · ·	GAS LINE
— W —	· · · · ·	WATER LINE
— S —	· · · · ·	SANITARY SEWER (SEPTIC)
ABOVE GROUND UTILITIES (AERIAL)		
— T —	· · · · ·	TELEPHONE
— E —	· · · · ·	ELECTRIC
— C —	· · · · ·	CABLE (TV)
— EC —	· · · · ·	ELECTRIC+CABLE
— ET —	· · · · ·	ELECTRIC+TELEPHONE
— AER E&T —	· · · · ·	ELECTRIC+TELEPHONE
— CT —	· · · · ·	CABLE+TELEPHONE
— ECT —	· · · · ·	ELECTRIC+CABLE+TELEP.
— · · —	· · · · ·	UTILITY POLE GUY WIRE

PROJECT CONSTRUCTION SYMBOLOLOGY

PROJECT DESIGN & LAYOUT SYMBOLOLOGY	
— · · — CZ — · · —	CLEAR ZONE
—————	PLAN LAYOUT MATCHLINE

PROJECT CONSTRUCTION FEATURES

▲ —▲—▲—▲	TOP OF CUT SLOPE
○ —○—○—○	TOE OF FILL SLOPE
⊗ ⊗ ⊗ ⊗ ⊗	STONE FILL
-----	BOTTOM OF DITCH
== == == == ==	CULVERT PROPOSED
-----	STRUCTURE SUBSURFACE
PDF ——— PDF ———	PROJECT DEMARCATION FENCE
BF —×—×—×— BF —×—×—	BARRIER FENCE
xxxxxxxxxxxxxxxxxxxx	TREE PROTECTION ZONE (TPZ)
//////////	STRIPING LINE REMOVAL
~~~~~	SHEET PILES

CONVENTIONAL BOUNDARY SYMBOLOLOGY

BOUNDARY LINES	
————— TOWN LINE ———	TOWN BOUNDARY LINE
————— COUNTY LINE ———	COUNTY BOUNDARY LINE
————— STATE LINE ———	STATE BOUNDARY LINE
——— / / / ———	PROPOSED STATE R.O.W. (LIMITED ACCESS)
————— / / / ———	PROPOSED STATE R.O.W.
————— / / / ———	STATE ROW (LIMITED ACCESS)
—————	STATE ROW
—————	TOWN ROW
— · · — · · — · · —	PERMANENT EASEMENT LINE (P)
— · · — · · — · · —	TEMPORARY EASEMENT LINE (T)
—————	SURVEY LINE
+ ——— + ——— + ———	PROPERTY LINE (P/L)
— P ——— P ———	
— L ——— L ———	
▲ — SR —○— SR —▲ — SR —○—	SLOPE RIGHTS
6f ——— 6f ———	6F PROPERTY BOUNDARY
4f ——— 4f ———	4F PROPERTY BOUNDARY
HAZ ——— HAZ ———	HAZARDOUS WASTE

EPSC LAYOUT PLAN SYMBOLOLOGY

EPSC MEASURES	
ONNOONNOONNO	FILTER CURTAIN
▣	SILT FENCE
▣ × ▣ × ▣ ×	SILT FENCE WOVEN WIRE
▶ —▶—▶—	CHECK DAM
▣	DISTURBED AREAS REQUIRING RE-VEGETATION
▣	EROSION MATTING

ENVIRONMENTAL RESOURCES

▼ ——— ▼	WETLAND BOUNDARY
-----	RIPARIAN BUFFER ZONE
— — — — —	WETLAND BUFFER ZONE
-----	SOIL TYPE BOUNDARY
————— T&E ———	THREATENED & ENDANGERED SPECIES
HAZ ——— HAZ ———	HAZARDOUS WASTE AREA
————— AG ———	AGRICULTURAL LAND
————— HABITAT ———	FISH & WILDLIFE HABITAT
————— FLOOD PLAIN ———	FLOOD PLAIN
— OHW — OHW —	ORDINARY HIGH WATER (OHW)
— ● — ● — ● —	STORM WATER
— · · — · · —	USDA FOREST SERVICE LANDS
— · · — · · —	WILDLIFE HABITAT SUIT/CONN

ARCHAEOLOGICAL & HISTORIC

————— ARCH ———	ARCHEOLOGICAL BOUNDARY
— HISTORIC DIST —	HISTORIC DISTRICT BOUNDARY
————— HISTORIC ———	HISTORIC AREA
Ⓜ	HISTORIC STRUCTURE

CONVENTIONAL TOPOGRAPHIC SYMBOLOLOGY

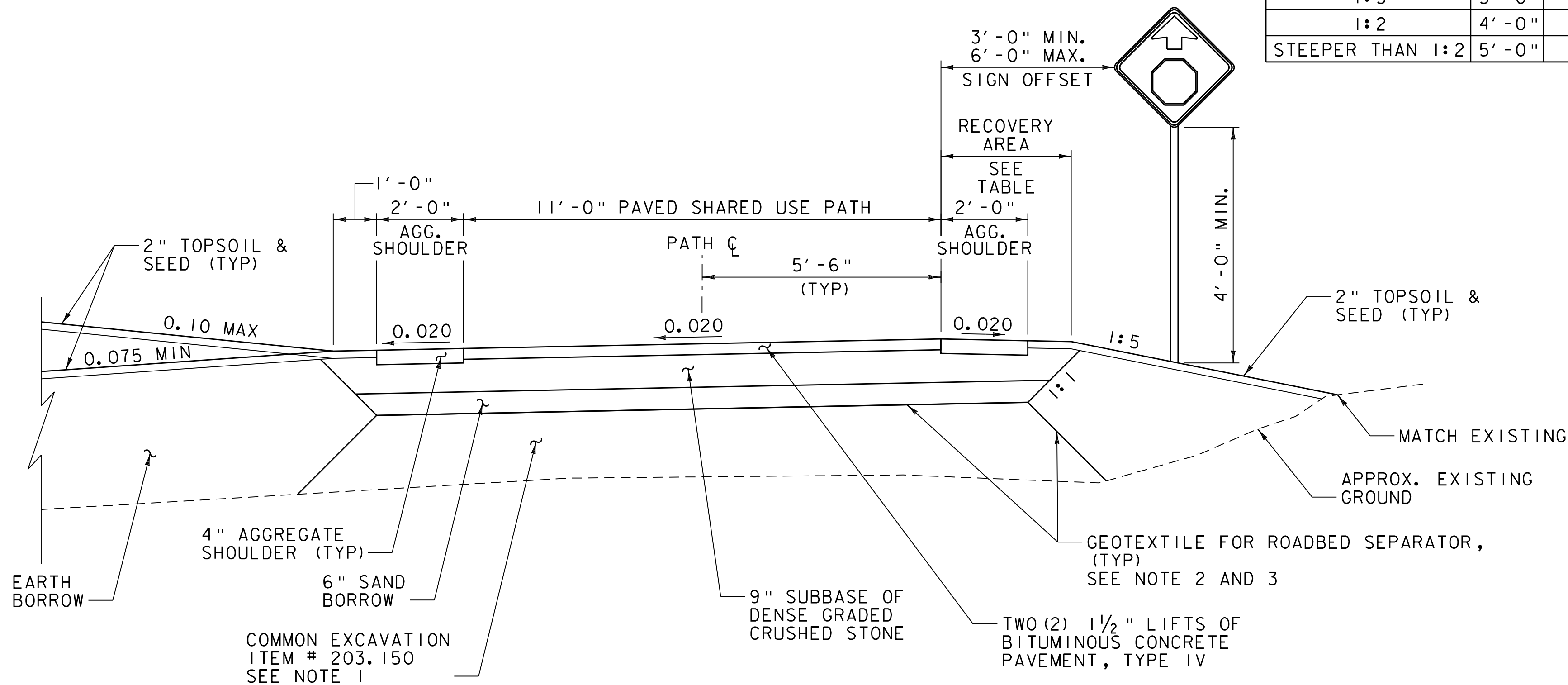
EXISTING FEATURES	
-----	ROAD EDGE PAVEMENT
-----	ROAD EDGE GRAVEL
-----	DRIVEWAY EDGE
-----	DITCH
—————	FOUNDATION
× —×—×—×—×—	FENCE (EXISTING)
▣ —▣—▣—▣—	FENCE WOOD POST
○ —○—○—○—	FENCE STEEL POST
~~~~~	GARDEN
○ —○—○—○—○—	ROAD GUARDRAIL
	RAILROAD TRACKS
-----	CULVERT (EXISTING)
○○○○○○○○○○○○○○	STONE WALL
-----	WALL
~~~~~	WOOD LINE
~~~~~	BRUSH LINE
~~~~~	HEDGE
== == == == ==	BODY OF WATER EDGE
▣ ▣ ▣ ▣ ▣ ▣	LEDGE EXPOSED

PROJECT NAME:	BURLINGTON BIKE PATH
PROJECT NUMBER:	57634
FILE NAME: z57634.con.symbol.dgn	PLOT DATE: 3/23/2016
PROJECT LEADER: M.A. COLGAN	DRAWN BY: D.A. GINGRAS
DESIGNED BY: VTRANS	CHECKED BY: M.A. COLGAN
CONVENTIONAL SYMBOLOLOGY LEGEND	SHEET 2 OF 19



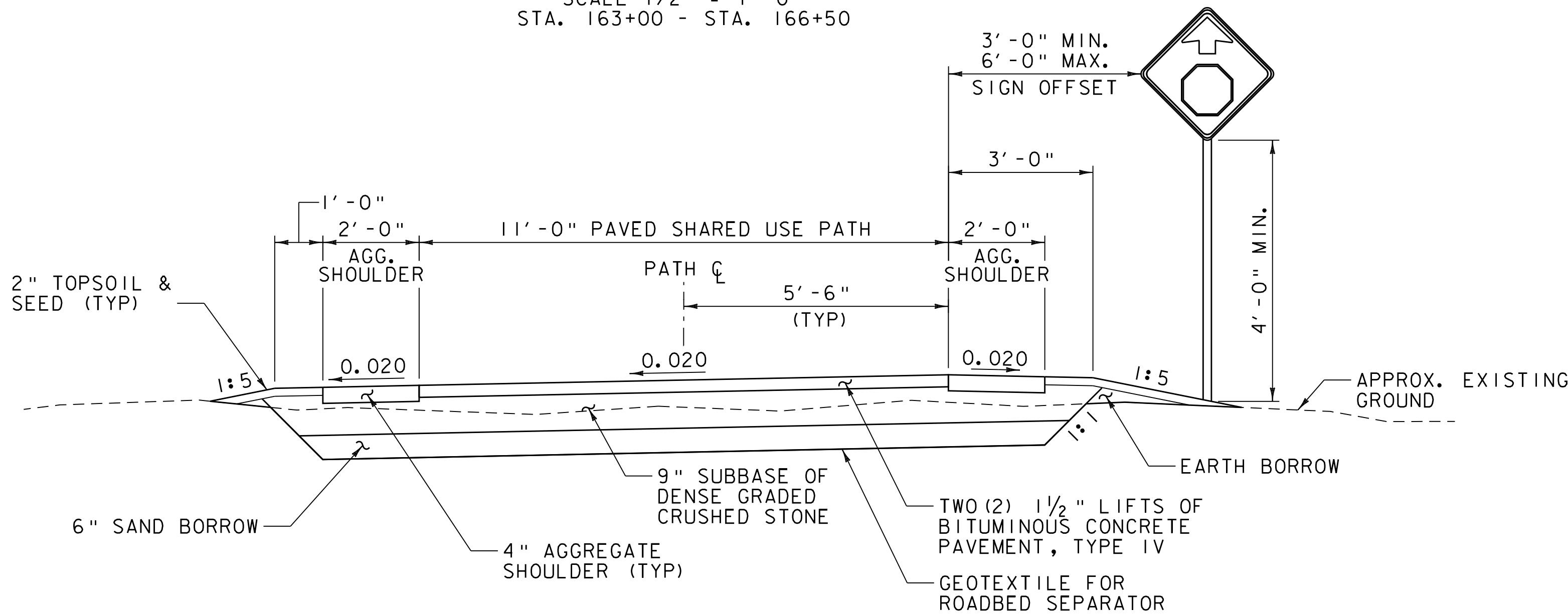


MATERIAL TOLERANCES	
MATERIAL ITEM	THICKNESS TOLERANCE
PAVEMENT (FULL DEPTH)	+/- 1/4" (TOTAL THICKNESS)
SUBBASE	1/2"
SAND BORROW	1"



PATH TYPICAL SECTION  
(REGRADE FILL SLOPE)

SCALE 1/2" = 1'-0"  
STA. 163+00 - STA. 166+50



PATH TYPICAL SECTION  
(NORMAL FILL SLOPE)

SCALE 1/2" = 1'-0"

NOTES:

- SOILS PLACED BENEATH THE GEOTEXTILE FABRIC SHALL CONSIST ONLY OF SOILS EXCAVATED WITHIN THE URBAN RESERVE
- GEOTEXTILE FABRIC SHALL BE PLACED WITH A MINIMUM OVERLAP OF 24" OR MORE BASED ON ENGINEERING JUDGEMENT TO PROVIDE ADEQUATE COVERAGE
- THE CONTRACTOR SHALL OBTAIN THE GEOTEXTILE MANUFACTURE'S RECOMMENDATIONS FOR THE SEAM AND STITCH TYPE TO BE USED. IF NO COMMENDATIONS ARE OBTAINED, THE CONTRACTOR SHALL USE A "J" SEAM WITH TWO PASSES OF A LOCK-TYPE STITCH WITH THREE STITCHES PER 1" (25 mm) OF SEWN SEAM

RECOVERY AREA TABLE		
SIDE SLOPE	PAVED SURFACE	
	MIN.	PREFERRED
1:4 OR FLATTER	0	3'-0"
1:3	3'-0"	4'-0"
1:2	4'-0"	5'-0"
STEEPER THAN 1:2	5'-0"	>5'-0"

NOTES:

- THE MINIMUM PAVED PATH WIDTH SHALL BE 11'-0" UNLESS NOTED OTHERWISE IN THE PLANS.
- WHEN USING A PAVED SURFACE, ROADBED SUBGRADE SEPARATOR FABRIC SHALL BE PLACED BETWEEN THE SUBGRADE AND SUBBASE.
- THE USE OF UNDERDRAIN IS OPTIONAL. HOWEVER, ITS USE IS ENCOURAGED WHEN WET SUBGRADE CONDITIONS ARE ENCOUNTERED.
- WHEN SAND BORROW IS USED, ITS THICKNESS SHALL BE TRANSITIONED TO OR FROM FULL DEPTH AT THE RATE OF 1:25 ALONG THE LENGTH OF THE PATH TO PREVENT A BUMP FROM OCCURRING AT ITS TERMINUS.
- THE PATH SHALL HAVE A UNIFORM TWO PERCENT CROSS SLOPE IN THE DIRECTION SHOWN IN THE PLANS, AND THE SUBBASE SHALL BE GRADED TO MATCH.
- ALL SHARED USE PATHS SHALL MEET THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA) TO THE EXTENTS POSSIBLE GIVEN EXISTING CONDITIONS. REFER TO THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG) FOR SPECIFIC DETAILS.
- ANY TREE ROOTS ENCOUNTERED WITHIN THE EXCAVATION LIMITS SHALL BE PRUNED AND PROTECTED ACCORDING TO SPECIAL PROVISION (ROOT PRUNING AND TREE PROTECTION).
- STONE FILL, TYPE IIIS REQUIRED ON ANY SLOPE STEEPER THAN 1:2. A 6" LAYER OF COVER MATERIAL OVER THE STONE IS ALSO REQUIRED AND ARE TO BE PAID UNDER THEIR RESPECTIVE UNIT ITEMS.
  - ANY SLOPES ADJACENT TO WETLANDS OR STREAMS SHALL USE GRUBBING MATERIAL AS A COVER FOR THE STONE FILL.
  - STONE COVERED SLOPES IN DRY AREAS SHALL USE EARTH BORROW AS A COVER MATERIAL. COVER MATERIAL SHALL BE SEEDED AND MULCHED.
- DITCHES SHALL RECEIVE THE FOLLOWING TREATMENTS BASED ON THEIR SLOPE, UNLESS SHOWN OTHERWISE ON THE PLANS.
  - 0-1% SEED AND MULCH
  - 1-2.5% EROSION CONTROL MATTING AND SEED
  - 2.5-10% TYPE I STONE FILL - 1'-0" DEPTH
  - >10% TYPE II STONE FILL - 2'-0" DEPTH
- PAYMENT OF DITCH LINE TREATMENTS SHALL BE UNDER THE FOLLOWING RESPECTIVE VTRANS UNIT ITEMS:
  - SEED - 651.15
  - HAY MULCH - 651.25
  - TEMPORARY EROSION CONTROL MATTING - 653.20
  - TYPE I STONE FILL - 613.10
  - TYPE II STONE FILL - 613.11
- AGGREGATE SHOULDER SHALL BE PAID UNDER ITEM NO. 900.608 SPECIAL PROVISION (STONE SCREENINGS, IN PLACE)

GRADING TABLE			
STATION RANGE		SIDE SLOPE GRADE	
START	END	LEFT	RIGHT
141+50	142+00	1:2	1:5
142+00	142+50	1:5	0.075
142+50	143+00	0.075	0.02
143+00	143+50	0.02	1:5
143+50	145+00	0.075	0.02
145+00	147+50	0.075	1:5
147+50	148+00	1:5	1:5
148+00	150+50	0.075	1:5
150+50	152+00	1:5	1:5
152+00	153+50	0.075	1:5
153+50	154+50	1:5	1:5
154+50	156+00	0.075	1:5
156+00	157+00	1:5	1:5
157+00	163+00	0.075	1:5
163+00	164+50	1:5	1:5
164+50	165+00	0.05	1:5
165+00	166+00	0.0	1:5
166+00	168+00	1:5	1:5

PROJECT NAME: BURLINGTON BIKE PATH

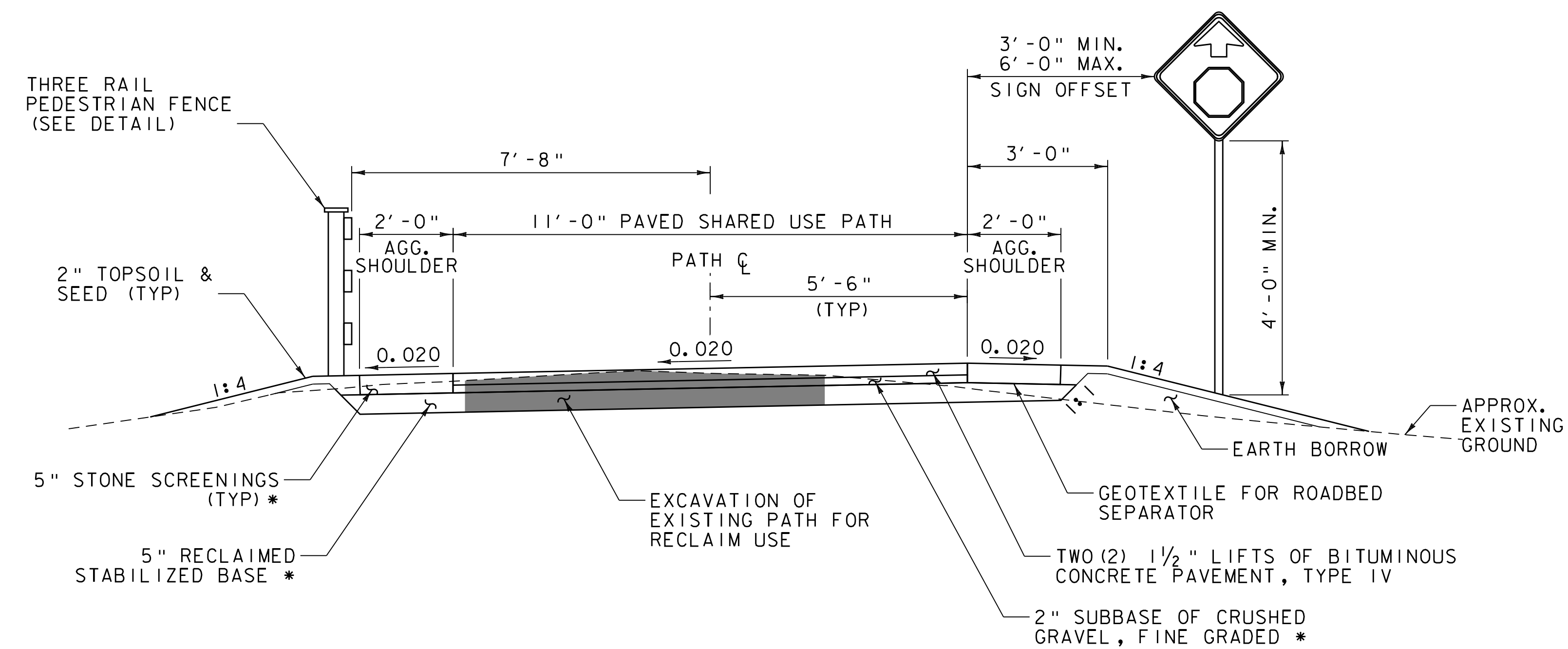
PROJECT NUMBER: 57634.00

FILE NAME: z57634+yp.dgn  
PROJECT LEADER: M.A. COLGAN  
DESIGNED BY: P.A. MILLER  
TYPICAL SECTIONS (1 OF 3)

PLOT DATE: 3/23/2016  
DRAWN BY: P.A. MILLER  
CHECKED BY: E.B. PARIZO  
SHEET 3 OF 119

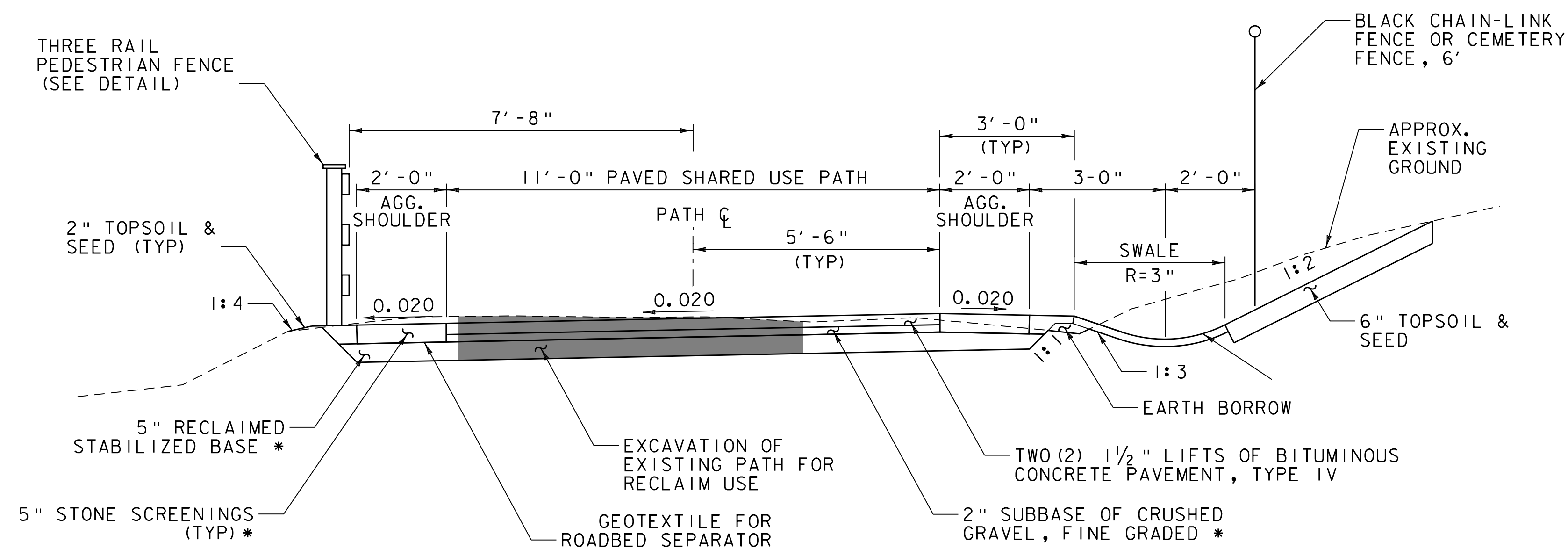






### RECLAMATION TYPICAL SECTION

SCALE 1/2" = 1'-0"  
 STA. 168+50 - STA. 176+00  
 STA. 180+00 - STA. 187+50



### DITCH TYPICAL SECTION

SCALE 1/2" = 1'-0"  
 STA. 176+50 - STA. 180+00

GRADING TABLE			
STATION	RANGE	SIDE SLOPE	GRADE
START	END	LEFT	RIGHT
168+50	169+00	1:2	1:2
169+00	170+50	1:4	0.02
170+50	171+00	1:4	1:5
171+00	172+50	1:4	1:4
172+50	174+00	1:4	0.02
174+00	176+00	1:4	1:4
176+00	177+00	1:4	0.02
177+00	178+00	1:4	1:4
178+00	179+50	1:4	0.02
179+50	180+00	1:4	1:4
180+00	182+00	1:4	0.02
182+00	182+50	1:2	0.02
182+50	183+50	1:4	0.02
183+50	184+00	1:4	1:4
184+00	184+50	1:1.5	1:1.5
184+50	185+00	1:4	1:1.5
185+00	187+50	1:4	0.02
187+50	187+50	1:4	1:4
188+00	188+00	0.0	0.0

#### NOTES:

- SUBBASE BELOW EXISTING BITUMUNOUS PAVEMENT SHALL BE EXCAVATED WITHIN LIMITS SHOWN ON CROSS SECTION SHEETS. MATERIAL SHALL BE REMOVED AND REPLACED IN A 5" RECLAIMED STABILIZED BASE LAYER UNDER THE NEW PATH WIDTH.
- * WHERE 5" OF RECLAIMED STABILIZED BASE CANNOT BE OBTAINED, SUBBASE OR STONE SCREENINGS SHALL BE USED TO OBTAIN REQUIRED GRADE

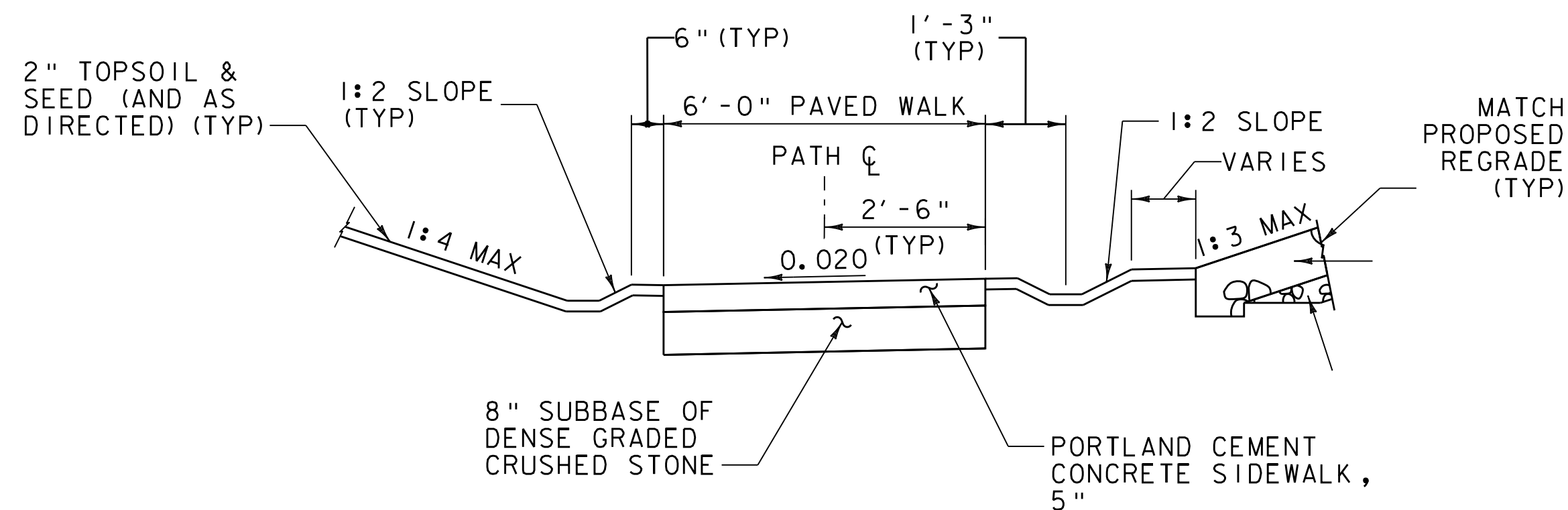
PROJECT NAME: BURLINGTON BIKE PATH  
 PROJECT NUMBER: 57634.00

FILE NAME: z57634+yp.dgn  
 PROJECT LEADER: M.A. COLGAN  
 DESIGNED BY: P.A. MILLER  
 TYPICAL SECTIONS (2 OF 3)

PLOT DATE: 3/23/2016  
 DRAWN BY: P.A. MILLER  
 CHECKED BY: E.B. PARIZO  
 SHEET 4 OF 119



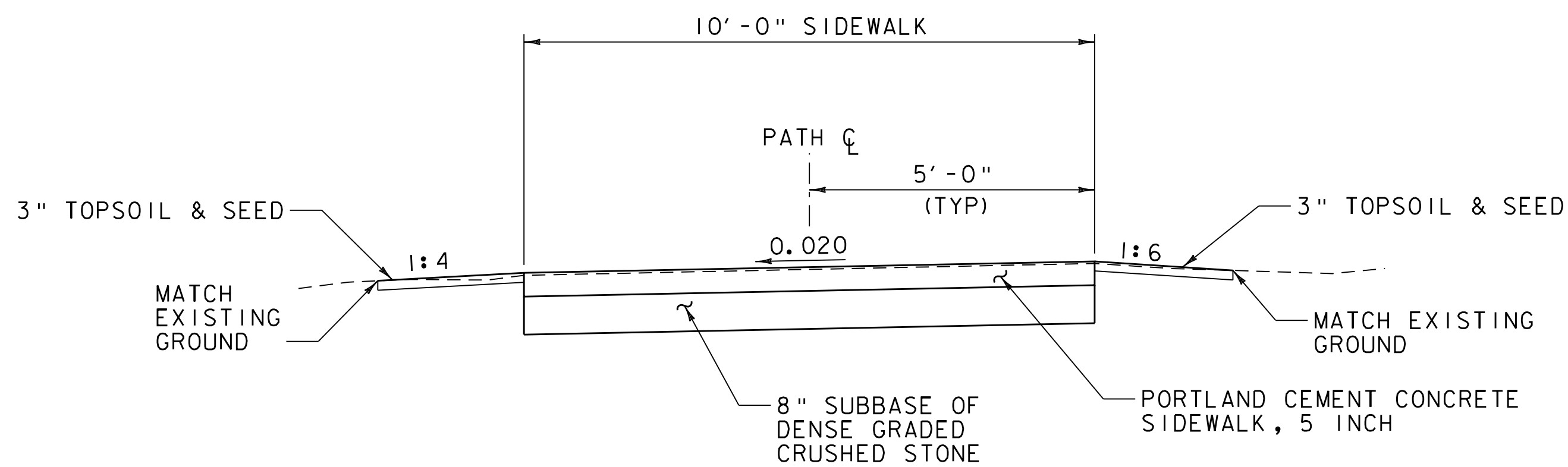




### TEXACO BEACH WALKWAY

SCALE 1/2" = 1'-0"

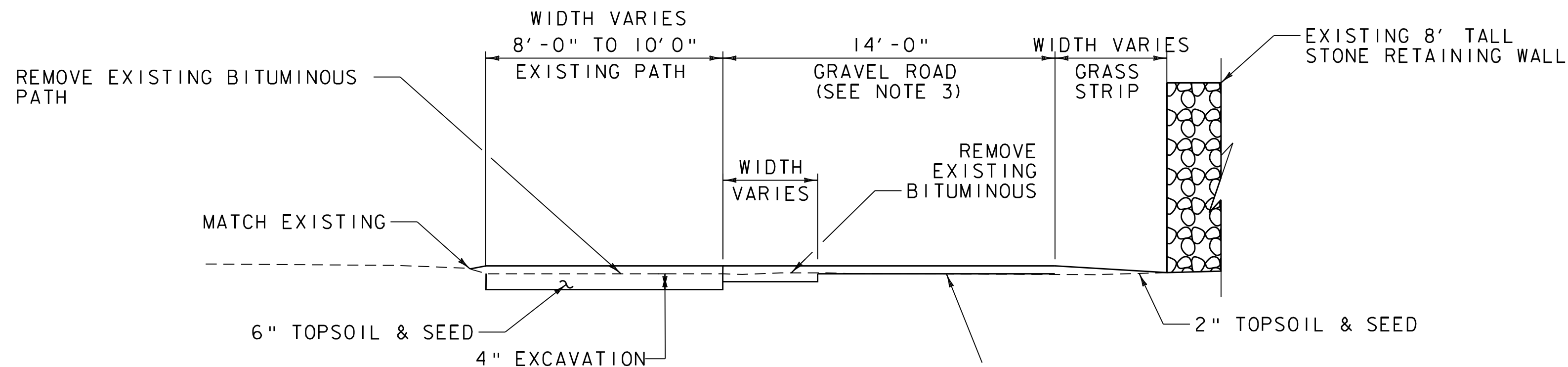
STATIONING	
BEGIN	END
300+24	301+68



### WATERFRONT PARK SPUR

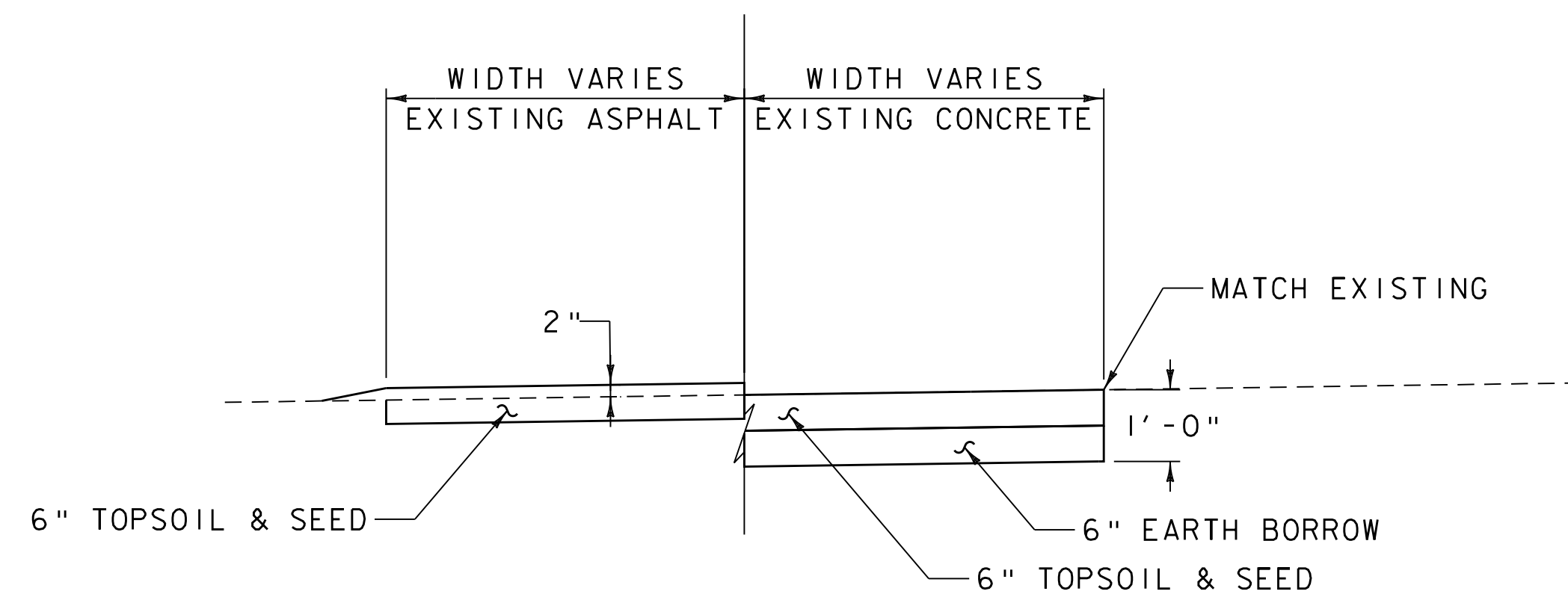
SCALE 1/2" = 1'-0"

STATIONING	
BEGIN	END
203+75	204+25



### EXISTING PATH REMOVAL

SCALE 1/2" = 1'-0"



### BITUMINOUS/CONCRETE REMOVAL*

SCALE 1/2" = 1'-0"

* REMOVE EXISTING BITUMINOUS OR CONCRETE TO SUBGRADE (WITHIN LIMITS SHOWN ON LAYOUT SHEETS AND AS DIRECTED) (SEE NOTES 1 AND 2)

#### NOTES:

- ALL CONCRETE IS ASSUMED TO BE A DEPTH OF 1'-0". ALL CONCRETE SHALL BE REMOVED TO SUBGRADE AND BACKFILLED WITH EARTH BORROW AS DIRECTED BY THE ENGINEER, TOPPED WITH A 6" DEPTH OF TOPSOIL.
- BITUMINOUS CONCRETE PAVEMENT IS ASSUMED TO BE A DEPTH OF 2". REMOVE SURFACE AND REGRADE AND REPLACE WITH 6" TOPSOIL AND SEED.
- A MINIMUM WIDTH OF 14'-0" SHALL BE MAINTAINED FOR GRAVEL ROAD.

PROJECT NAME: BURLINGTON BIKE PATH

PROJECT NUMBER: 57634.00

FILE NAME: z57634+yp.dgn  
PROJECT LEADER: M.A. COLGAN  
DESIGNED BY: P.A. MILLER  
TYPICAL SECTIONS (3 OF 3)

PLOT DATE: 3/23/2016  
DRAWN BY: P.A. MILLER  
CHECKED BY: E.B. PARIZO  
SHEET 5 OF 119





PROJECT NOTES

GENERAL

1.

ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE STATE OF VERMONT AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, DATED 2011, AND ITS LATEST REVISIONS.
2.

PER AMERICANS WITH DISABILITIES ACT ACCESSABILITY GUIDELINES (ADAAG), PATH CROSS SLOPES SHALL NOT EXCEED 2%.
3.

ALL SHARED USE PATH LONGITUDINAL RAMPS AT ROADWAY AND DRIVEWAY CROSSINGS SHALL NOT EXCEED 5%.
4.

ALL EXISTING PAVED SURFACES CALLED OUT FOR REMOVAL ON THE LAYOUT PLANS SHALL BE REPLACED WITH 6" OF TOPSOIL & SEED, UNLESS OTHERWISE NOTED ON THE PLANS.
5.

ALL EXISTING TREES WITHIN THE PROPOSED CONSTRUCTION LIMITS SHALL BE SAVED (SEE NOTE 28) UNLESS OTHERWISE NOTED IN THE PLANS. TREE REMOVAL SHALL BE PAID FOR UNDER THE APPROPRIATE CONTRACT ITEMS.
6.

ANY WASTE MATERIAL THAT WILL BE TAKEN OFF SITE SHALL BE REMOVED AND HAULED TO A PREVIOUSLY APPROVED FACILITY.

CONSTRUCTION

7.

THE CONTRACTOR SHALL ERECT, MAINTAIN, REMOVE, AND/OR RESET AS REQUIRED ALL ON-PROJECT CONSTRUCTION SIGNS AND BARRICADES. ALL SIGNS AND BARRICADES SHALL BE INSPECTED AND REPAIRED DAILY. ALL SIGNS AND BARRICADES SHALL CONFORM TO THE LATEST VERSION OF THE MUTCD AND SHALL BE CLEANED OF DUST AND DEBRIS WEEKLY.
8.

ANY EXISTING SIGNS NOT REUSED SHALL REMAIN THE PROPERTY OF THE CITY OF BURLINGTON. THESE SIGNS SHALL BE REMOVED BY THE CONTRACTOR AND STOCKPILED FOR REMOVAL BY THE CITY. STOCKPILE LOCATION TO BE DETERMINED BY THE ENGINEER.
9.

FULL ACCESS TO ALL DRIVES WITHIN THE PROJECT LIMITS SHALL BE MAINTAINED AT ALL TIMES. IF FULL ACCESS CANNOT BE MAINTAINED, THE CONTRACTOR SHALL CONTACT AND COORDINATE WITH THE BUSINESS OR PROPERTY OWNER AT LEAST 24 HOURS IN ADVANCE OF TEMPORARILY CLOSING OFF THE ACCESS.
10.

THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL BURIED AND AERIAL UTILITIES AND POLES PRIOR TO STARTING WORK. THE CONTRACTOR SHALL COORDINATE WITH ALL UTILITY OWNERS TO CONFIRM ACTUAL LOCATIONS PRIOR TO CONSTRUCTION.

DIG-SAFE (1-888-344-7233)

11.

THE FOLLOWING IS A LIST OF CONTACTS THE CONTRACTOR SHALL NOTIFY AT LEAST SEVEN (7) FULL BUSINESS DAYS PRIOR TO EXCAVATING:

CITY OF BURLINGTON:  
JESSE BRIDGES, DIRECTOR OF PARKS, RECREATION & WATERFRONT;  
(802) 865-7557  
JEN FRANCIS, BURLINGTON BIKE PATH REHABILITATION PROJECT MANAGER;  
(802) 865-7248

12.

CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY. CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH OSHA STANDARDS, STATE AND LOCAL REQUIREMENTS.
13.

AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
14.

IN THE EVENT CONTAMINATED SOIL, GROUNDWATER, AND OTHER MEDIA ARE ENCOUNTERED DURING EXCAVATION AND CONSTRUCTION ACTIVITIES BASED ON VISUAL, OLFACTORY, OR OTHER EVIDENCE, THE CONTRACTOR SHALL STOP WORK IN THE VICINITY OF THE SUSPECT MATERIAL TO AVOID FURTHER SPREADING OF THE MATERIAL, AND SHALL NOTIFY THE RESIDENT ENGINEER IMMEDIATELY SO THAT THE APPROPRIATE TESTING AND SUBSEQUENT ACTION CAN BE TAKEN.
15.

DAMAGE RESULTING FROM CONTRACTOR CONSTRUCTION LOADS SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO OWNER.
16.

CONTRACTOR SHALL CONTROL STORMWATER RUNOFF DURING CONSTRUCTION AS PER THE EPSC NARRATIVE AND DETAILS PROVIDED IN THESE PLANS TO PREVENT ADVERSE IMPACTS TO OFF SITE AREAS, AND SHALL BE RESPONSIBLE TO REPAIR RESULTING DAMAGES, IF ANY, AT NO COST TO OWNER.
17.

UPON CITY ACCEPTANCE OF THE BID ALTERNATE FOR TEMPORARY WORK IN THE URBAN RESERVE, THE CONTRACTOR SHALL PRIORITIZE THAT WORK FOR COMPLETION PRIOR TO MAY 27, 2016 (SHEETS 38-40).

UTILITY

18.

THE LOCATIONS, SIZES, AND TYPES OF EXISTING UTILITIES ARE SHOWN AS AN APPROXIMATE REPRESENTATION ONLY. THE OWNER OR DESIGN ENGINEER HAVE NOT INDEPENDENTLY VERIFIED ALL OF THIS INFORMATION AS SHOWN ON THE PLANS. THE UTILITY INFORMATION SHOWN DOES NOT GUARANTEE THE ACTUAL EXISTENCE, SERVICEABILITY, OR OTHER DATA CONCERNING THE UTILITIES, NOR DOES IT GUARANTEE AGAINST THE POSSIBILITY THAT ADDITIONAL UTILITIES MAY BE PRESENT THAT ARE NOT SHOWN ON THE PLANS. PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY AND DETERMINE THE EXACT LOCATIONS, SIZES, AND ELEVATIONS OF THE POINTS OF CONNECTIONS TO EXISTING UTILITIES AND, SHALL CONFIRM THAT THERE ARE NO INTERFERENCES WITH EXISTING UTILITIES AND THE PROPOSED WORK, INCLUDING WORK WITHIN THE PUBLIC RIGHTS OF WAY. EXPLORATORY EXCAVATION SHALL BE PAID FOR UNDER ITEM 204.22 - TRENCH EXCAVATION OF EARTH, EXPLORATORY.
19.

WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, OR EXISTING CONDITIONS DIFFER FROM THOSE SHOWN SUCH THAT THE WORK CANNOT BE COMPLETED AS INTENDED, THE LOCATION, ELEVATION, AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED AND THE INFORMATION FURNISHED IN WRITING TO THE RESIDENT ENGINEER FOR THE RESOLUTION OF THE CONFLICT.
20.

EXISTING RIM ELEVATIONS FOR DRAIN AND SEWER MANHOLES, WATER VALVE COVERS, GAS GATES, ELECTRIC AND TELEPHONE PULL BOXES, AND MANHOLES, AND OTHER SUCH ITEMS WITHIN THE LIMITS OF THE PROPOSED WORK, ARE APPROXIMATE AND SHALL BE SET/RESET AS FOLLOWS:

A.

PAVEMENTS AND CONCRETE SURFACES: FLUSH

B.

ALL SURFACES ALONG ACCESSIBLE ROUTES: FLUSH

C.

LANDSCAPE, TOPSOIL AND SEED, AND OTHER EARTH SURFACE AREAS: ONE INCH ABOVE SURROUNDING AREA AND TAPER EARTH TO THE RIM ELEVATION
21.

THE USE OF BRICK AND MORTAR TO ADJUST THE ELEVATION OF DRAINAGE OR SANITARY STRUCTURES IS PROHIBITED. ALL ELEVATION ADJUSTMENTS SHALL BE MADE USING EITHER GRADE RINGS OR A SYNTHETIC RISER.
22.

ALL CONNECTIONS BETWEEN PRECAST DRAINAGE STRUCTURES AND NEW DRAINAGE PIPES SHALL BE A BOOTED CONNECTION.
23.

CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING AND ADJUSTING ALL CURB STOPS, WATER VALVES, MANHOLES, & DRAINAGE STRUCTURES WITHIN THE PROJECT LIMITS TO THE FINAL GRADE ELEVATION. PAYMENT FOR ADJUSTMENTS SHALL BE PAID FOR UNDER THE APPROPRIATE CONTRACT PAY ITEMS.

TRAFFIC CONTROL

24.

PLEASE SEE TRAFFIC CONTROL PLANS FOR ALL NOTES PERTAINING TO TRAFFIC CONTROL.

EROSION PREVENTION AND SEDIMENT CONTROL

25.

PLEASE SEE EPSC NARRATIVE FOR ALL NOTES PERTAINING TO EROSION PREVENTION AND SEDIMENT CONTROL.

RIGHT OF WAY

26.

THE RAILROAD RIGHT-OF-WAY LOCATION AS SHOWN IS BASED ON "LOCATION PLANS OF THE 1RUTLAND RAILROAD. RUTLAND-CANADIAN DIV. VOL. 1. BURLINGTON TO ISLAND PARK," FOUND AT THE VERMONT STATE ARCHIVES, DOCUMENT #PRA-00441; MINIMAL EXISTING RAILROAD MONUMENTS WERE FOUND; THE R.O.W. LOCATION AS SHOWN IS BASED SOLELY UPON UTILIZING THE EXISTING BIKE PATH LOCATION AS EVIDENCE OF THE TRACK LOCATION AS DEPICTED ON SAID LOCATION PLANS. THE R.O.W. LOCATION MAY VARY UPON FUTURE DISCOVERY OF MONUMENTS AND AN ASSESSMENT OF COMMISSIONER'S AWARD'S (VOL. 46 PG. 201-203).
27.

RAILROAD RIGHT-OF-WAY LOCATION BASED ON PLAN ENTITLED "LOT LINE ADJUSTMENT BETWEEN 329 & 351 NORTH AVENUE, BURLINGTON COLLEGE," BY CIVIL ENGINEERING ASSOCIATES, INC. OF SOUTH BURLINGTON VERMONT, DATED DEC. 18, 2014, RECORDED IN THE CITY OF BURLINGTON LAND RECORDS (MAP SLIDE 509-C).

ROOT PRUNING AND TREE PROTECTION

28.

ALL EXCAVATION AND CONSTRUCTION OPERATIONS TO BE PERFORMED SHALL BE COMPLETED WITH EXTREME CARE TO NOT DAMAGE THE EXISTING TREES IN THE URBAN RESERVE EXCEPT FOR THOSE NOTED ON THE PLANS AS TO BE REMOVED. ALL COSTS SHALL BE INCLUDED UNDER APPROPRIATE EXCAVATION AND ROOT PRUNING AND TREE PROTECTION PAY ITEMS FOR PROTECTION OF EXISTING TREES. IF DAMAGE DOES OCCUR TO ANY OF THE EXISTING TREES NOT TO BE REMOVED, ALL COSTS FOR REPLACEMENT TO THE CITY'S SATISFACTION SHALL BE AT THE CONTRACTOR'S EXPENSE.

SOIL EXCAVATION AND HANDLING

29.

All project soil excavation and handling shall be completed in accordance with the Corrective Action Plan for Phase 1b of the Burlington Bike Path Project - Phase 1b.
30.

All contractors working in direct contact with soils for excavating, regrading, and other project tasks shall be OSHA-HAZWOPER certified.

PROJECT NAME: BURLINGTON BIKE PATH

PROJECT NUMBER: 57634.00

FILE NAME: z57634pn.dgn  
PROJECT LEADER: M.A. COLGAN  
DESIGNED BY: E.B. PARIZO  
PROJECT NOTES

PLOT DATE: 3/23/2016  
DRAWN BY: E.B. PARIZO  
CHECKED BY: D.M. PECK  
SHEET 6 OF 119





# QUANTITY SHEET 1



PROJECT NAME: BURLINGTON BIKE PATH  
PROJECT NUMBER: 57634.00

FILE NAME: z57634qs.dgn	PLOT DATE: 3/23/2016
PROJECT LEADER: M.A. COLGAN	DRAWN BY: E.B. PARIZO
DESIGNED BY: P.A. MILLER	CHECKED BY: D.A. GINGRAS
QUANTITY SHEET (1 OF 3)	SHEET 7 OF 119



# QUANTITY SHEET 2



PROJECT NAME: BURLINGTON BIKE PATH  
PROJECT NUMBER: 57634.00

FILE NAME: z57634qs.dgn	PLOT DATE: 3/23/2016
PROJECT LEADER: M.A. COLGAN	DRAWN BY: E.B. PARIZO
DESIGNED BY: P.A. MILLER	CHECKED BY: D.A. GINGRAS
QUANTITY SHEET (2 OF 3)	SHEET 8 OF 119



# QUANTITY SHEET 3



PROJECT NAME: BURLINGTON BIKE PATH  
PROJECT NUMBER: 57634.00

FILE NAME: z57634qs.dgn	PLOT DATE: 3/23/2016
PROJECT LEADER: M.A. COLGAN	DRAWN BY: E.B. PARIZO
DESIGNED BY: P.A. MILLER	CHECKED BY: -----
QUANTITY SHEET (3 OF 3)	SHEET 9 OF 119



# EARTHWORK SUMMARY SHEET

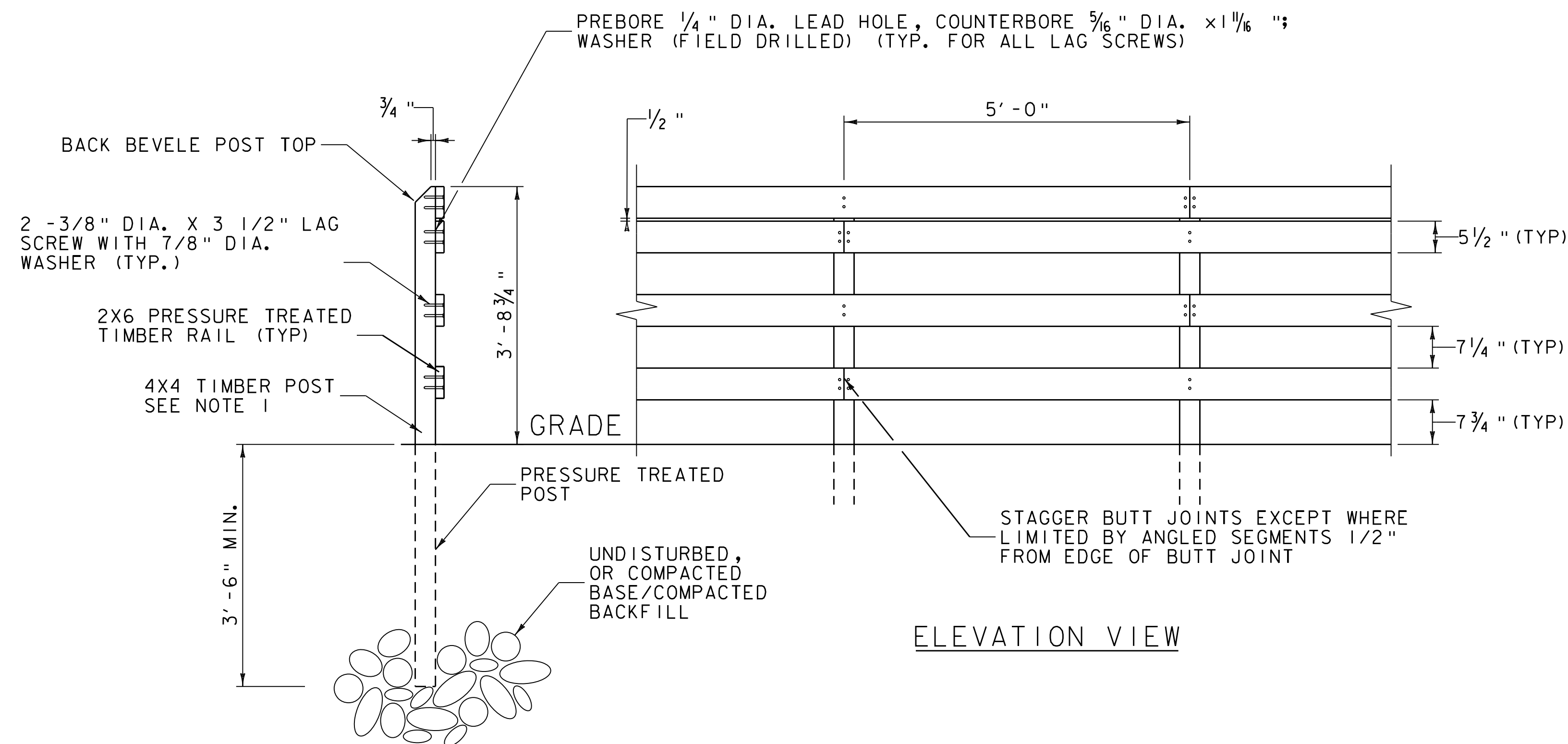
PROJECT NAME: BURLINGTON BIKE PATH  
PROJECT NUMBER: 57634.00

FILE NAME: z57634qs.dgn  
PROJECT LEADER: M.A. COLGAN  
DESIGNED BY: P.A. MILLER  
EARTHWORK SUMMARY SHEET

PLOT DATE: 3/23/2016  
DRAWN BY: E.B. PARIZO  
CHECKED BY: -----  
SHEET 10 OF 119





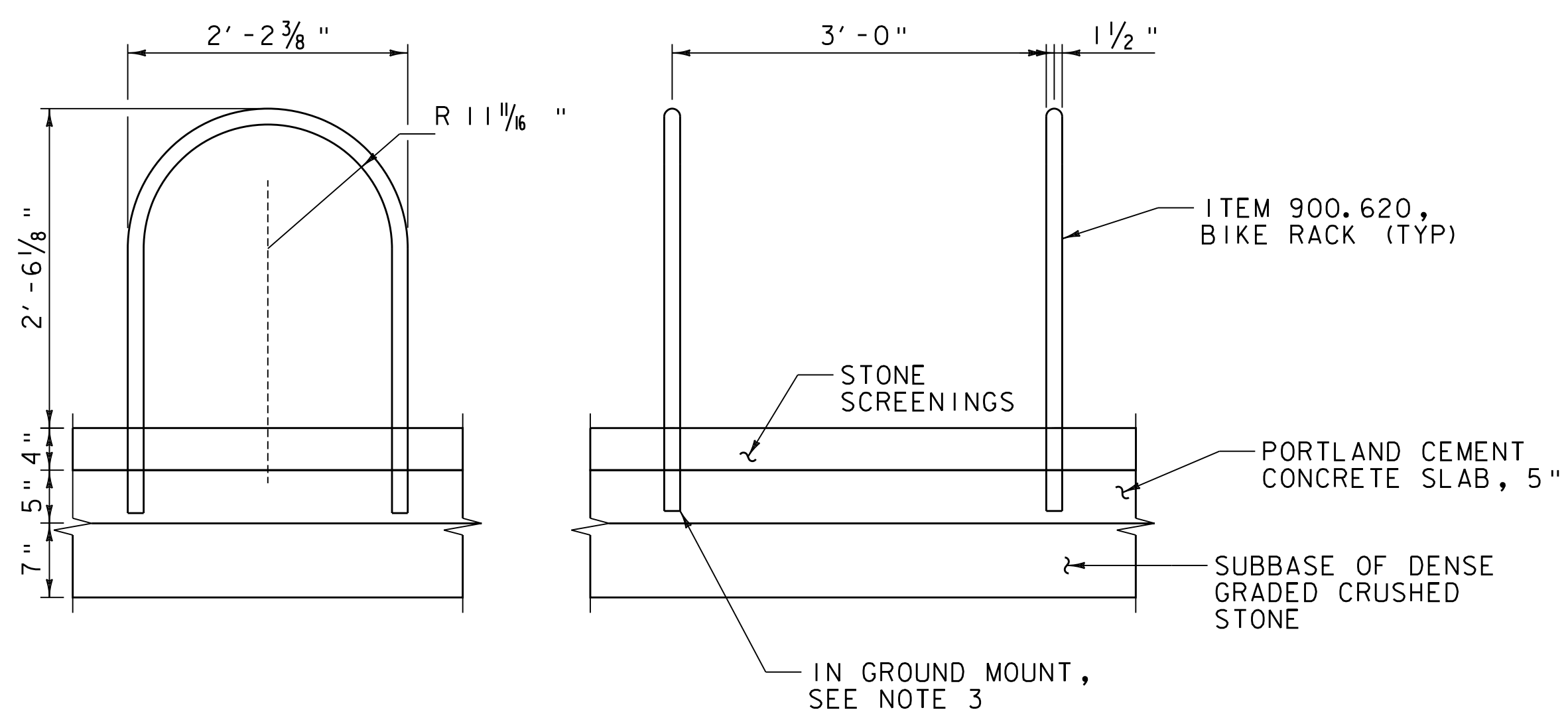


SECTION VIEW

ELEVATION VIEW

### THREE RAIL PEDESTRIAN FENCE (SPECIAL PROVISION)

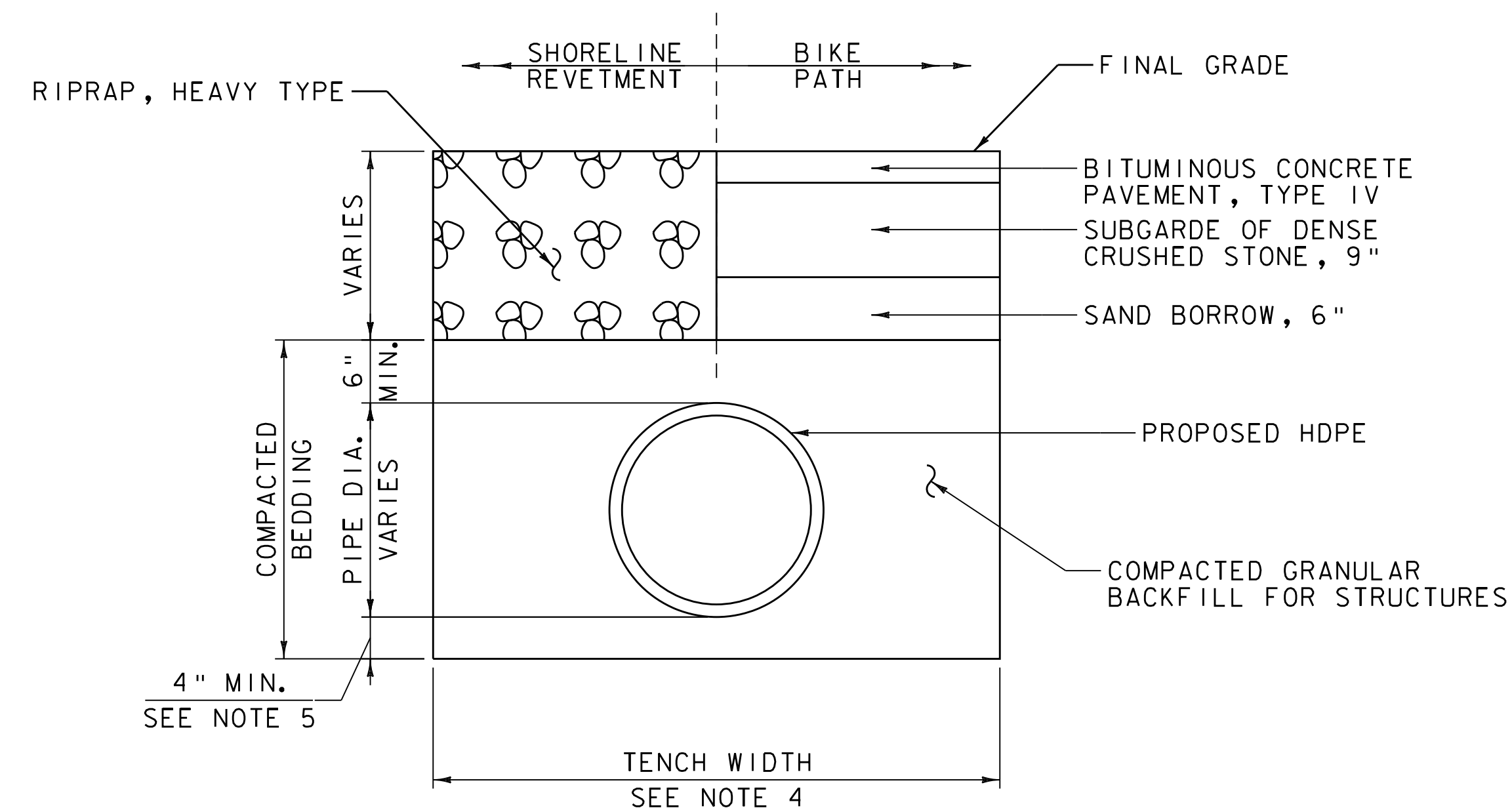
NOT TO SCALE  
SEE NOTE 1 AND 2



BIKE RACK  
SCALE 1" = 1'-0"

#### NOTES:

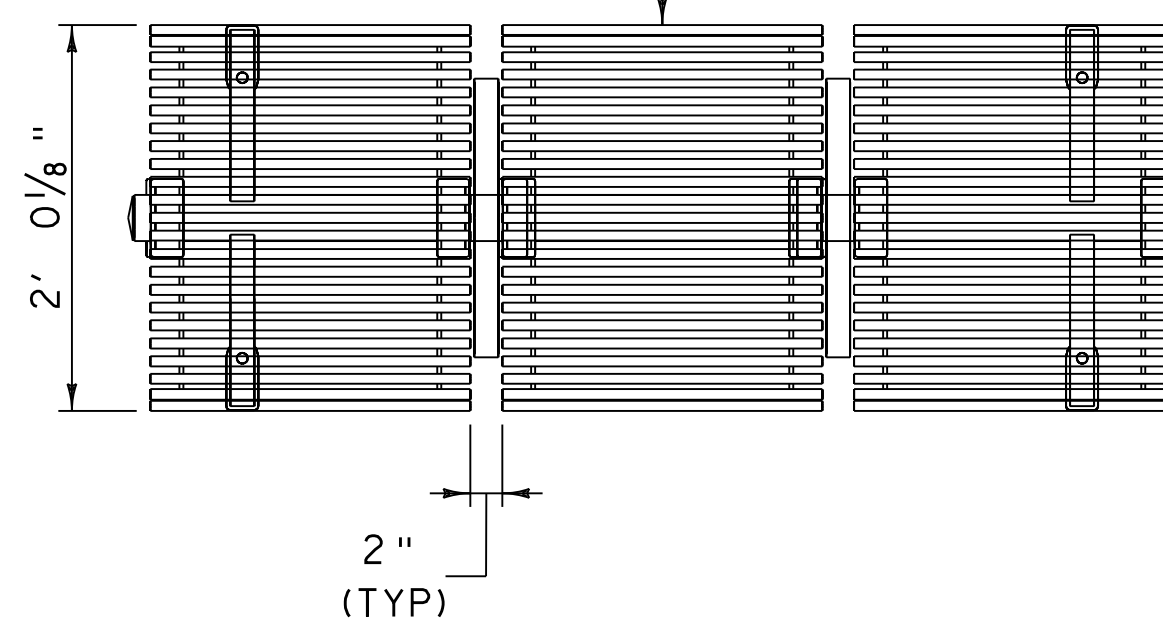
- POSTS SHALL CONFORM TO 709.01 - STRUCTURAL LUMBER AND TIMBER.
- HARDWARE SHALL BE GALVANIZED AND CONFORM TO THE RELEVANT PROVISIONS OF SUBSECTION 709.01.
- IN GROUND MOUNT TO BE CORE DRILLED WITH NON-SHRINK EPOXY GROUT INCIDENTAL TO ITEM 900.620, "SPECIAL PROVISION (BIKE RACK)". INSTALL USING MANUFACTURER'S RECOMMENDATIONS FOR NEW SIDEWALK INSTALLATIONS.
- FOR 12" DIA. HDPE, DIMENSION IS 30". FOR 18" DIA. HDPE, DIMENSION IS 38".
- IF UNDERLYING MATERIAL IS FOUND TO BE ROCK, REMOVE ROCK TO MIN DEPTH SHOWN AND REPLACE WITH SPECIFIED EMBEDMENT MATERIAL.
- STEEL BENCHES TO BE ATTACHED USING 8" ANCHOR BOLTS. IN GROUND MOUNT TO BE CORE DRILLED WITH NON-SHRINK EPOXY GROUT INCIDENTAL TO ITEM 900.620, "SPECIAL PROVISION (BENCH)".



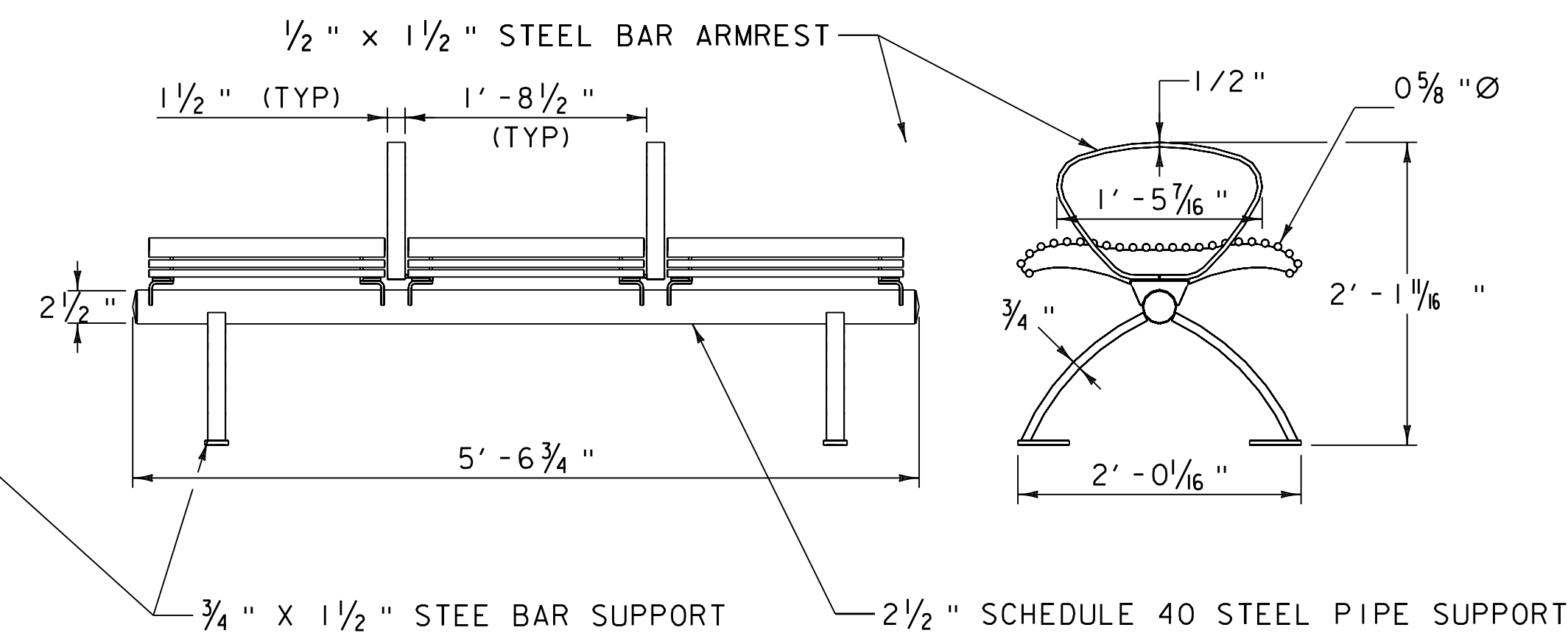
### CULVERT INSTALLATION

NOT TO SCALE  
STA. 156+00  
STA. 162+00

HORIZONTAL STEEL BAR,  $\frac{5}{8}$ " DIAMETER



TOP VIEW



FRONT VIEW

ELEVATION VIEW

STEEL BENCH  
SCALE 1" = 1'-0"  
SEE NOTE 6

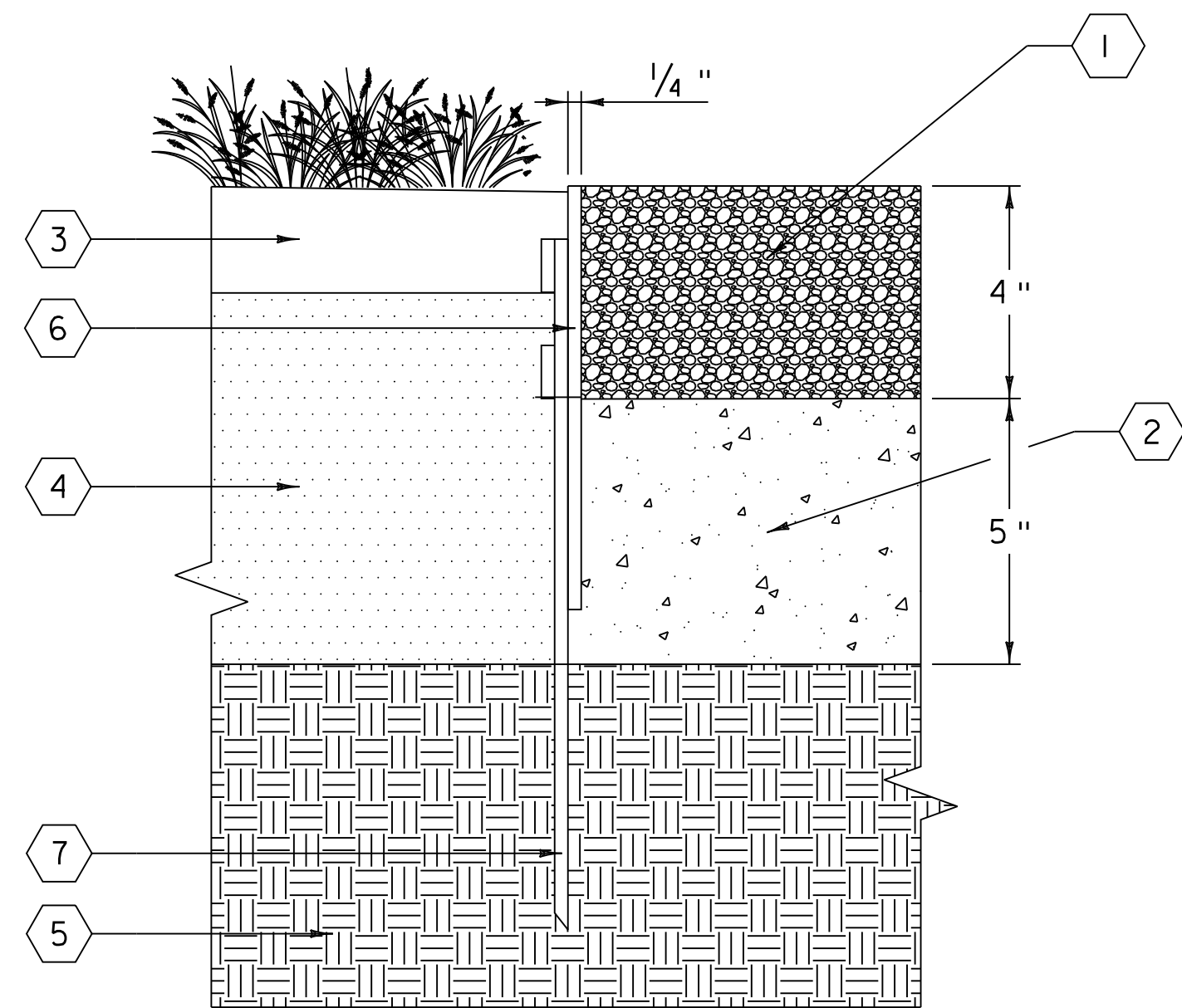


PROJECT NAME: BURLINGTON BIKE PATH  
PROJECT NUMBER: 57634.00

FILE NAME: z57634det.dgn  
PROJECT LEADER: M.A. COLGAN  
DESIGNED BY: P.A. MILLER  
DETAIL SHEETS (10 OF 5)

PLOT DATE: 3/23/2016  
DRAWN BY: P.A. MILLER  
CHECKED BY: E.B. PARIZO  
SHEET 11 OF 119





#### LEGEND

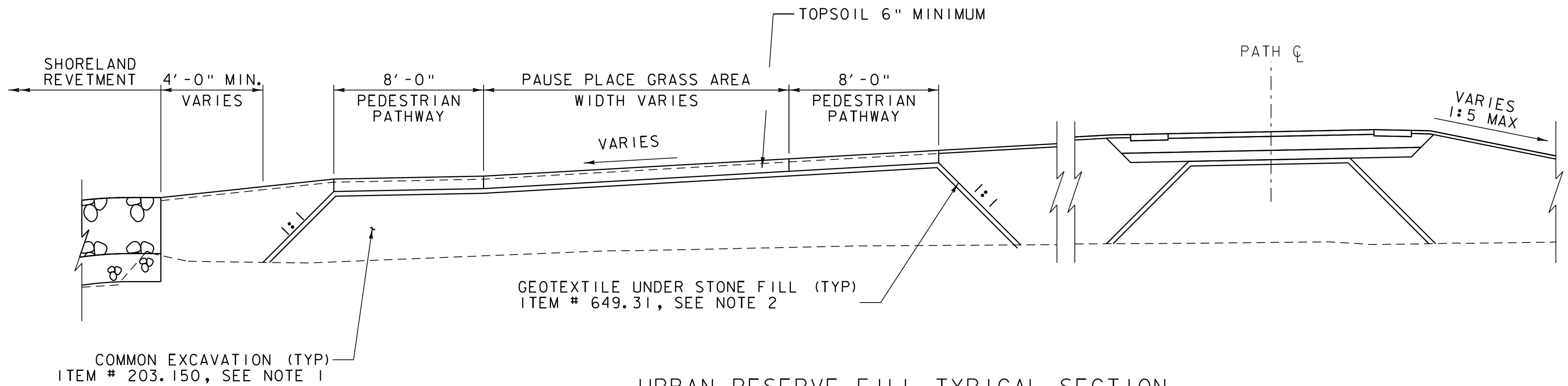
1. STONE SCREENINGS
2. PORTLAND CEMENT CONCRETE SLAB, 5" OR SUBBASE OF DENSE GRADE CRUSHED STONE
3. TOPSOIL AND SEED, 2"
4. EARTH BORROW
5. COMPACTED OR UNDISTURBED SUBGRADE
6. STEEL EDGING
7. STEEL STAKE

#### NOTES

1. STAKING SHALL OCCUR EVERY 24" O.C. MIN.
2. STEEL STAKES SHALL BE 18" LONG, MIN.

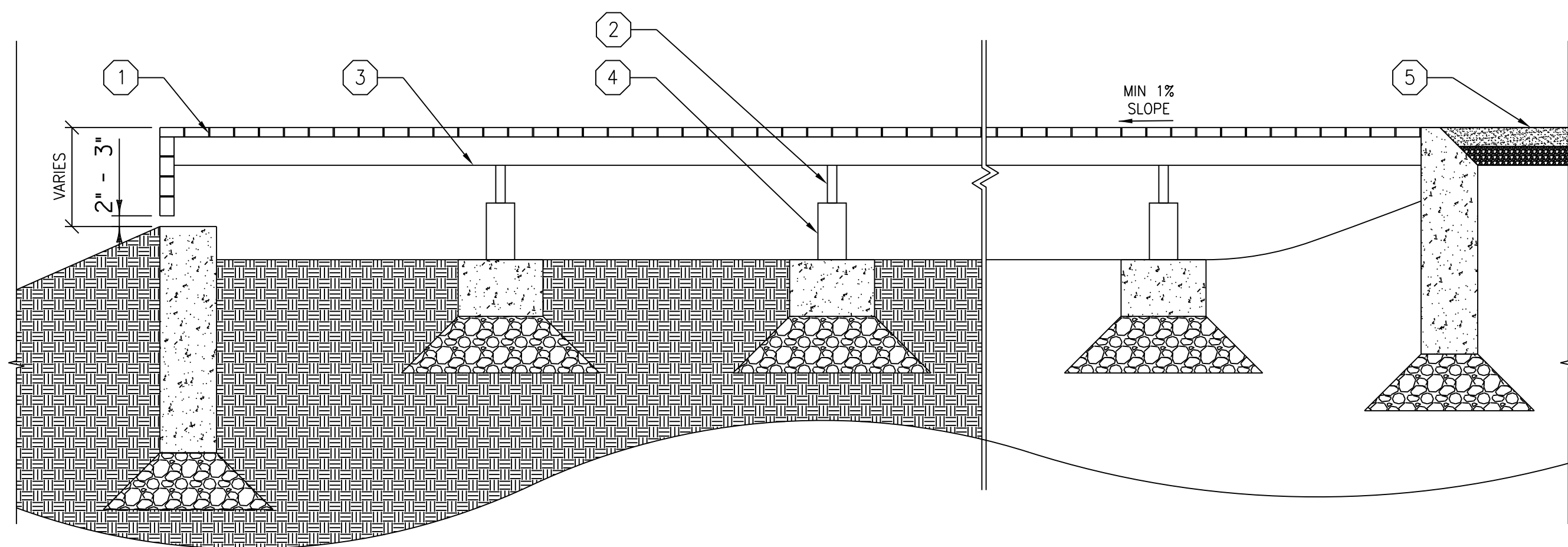
#### STEEL EDGING - ALL PAUSE PLACE LOCATIONS

SCALE 4" = 1'-0"



#### URBAN RESERVE FILL TYPICAL SECTION

NOT TO SCALE



#### LEGEND

1. 1 1/4"X5" IPE WOOD DECKING W/ 1/8" SPACING USING IPE CLIP INVISIBLE FASTENERS (TYP.)
2. 2"X8" BEAM, TYP. (NOMINAL SIZE)
3. 2"X6" JOISTS @ 18" O.C., TYP. (NOMINAL SIZE)
4. 6"X6" POSTS
5. ADJACENT STONE DUST, TYP.

#### NOTES

1. WOODEN DECK TO MEET ALL CODE REQUIREMENTS, INCLUDING ADA GUIDELINES.
2. CONTRACTOR IS RESPONSIBLE FOR ALL LAYOUT AND DESIGN OF WOODEN DECK, PIERS, RAILING, AND CONNECTIONS. ALL CONCRETE STRUCTURES, REINFORCING STEEL, AND DECK DESIGN SHALL BE DESIGNED AND STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF VERMONT. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND DESIGN CALCULATIONS FOR APPROVAL.

#### NOTE 1:

1. SOILS PLACED BENEATH THE GEOTEXTILE FABRIC SHALL CONSIST ONLY OF SOILS EXCAVATED WITHIN THE URBAN RESERVE
2. GEOTEXTILE FABRIC SHALL BE PLACED WITH A MINIMUM OVERLAP OF 24" OR MORE BASED ON ENGINEERING JUDGEMENT TO PROVIDE ADEQUATE COVERAGE

THE CONTRACTOR SHALL OBTAIN THE GEOTEXTILE MANUFACTURE'S RECOMMENDATIONS FOR THE SEAM AND STITCH TYPE TO BE USED. IF NO RECOMMENDATIONS ARE OBTAINED, THE CONTRACTOR SHALL USE A "J" SEAM WITH TWO PASSES OF A LOCK-TYPE STITCH WITH THREE STITCHES PER 1" (25 mm) OF SEWN SEAM

#### WOODEN DECK - PAUSE PLACE LOCATION 3

SCALE 1/2" = 1'-0"



PROJECT NAME: BURLINGTON BIKE PATH

PROJECT NUMBER: 57634.00

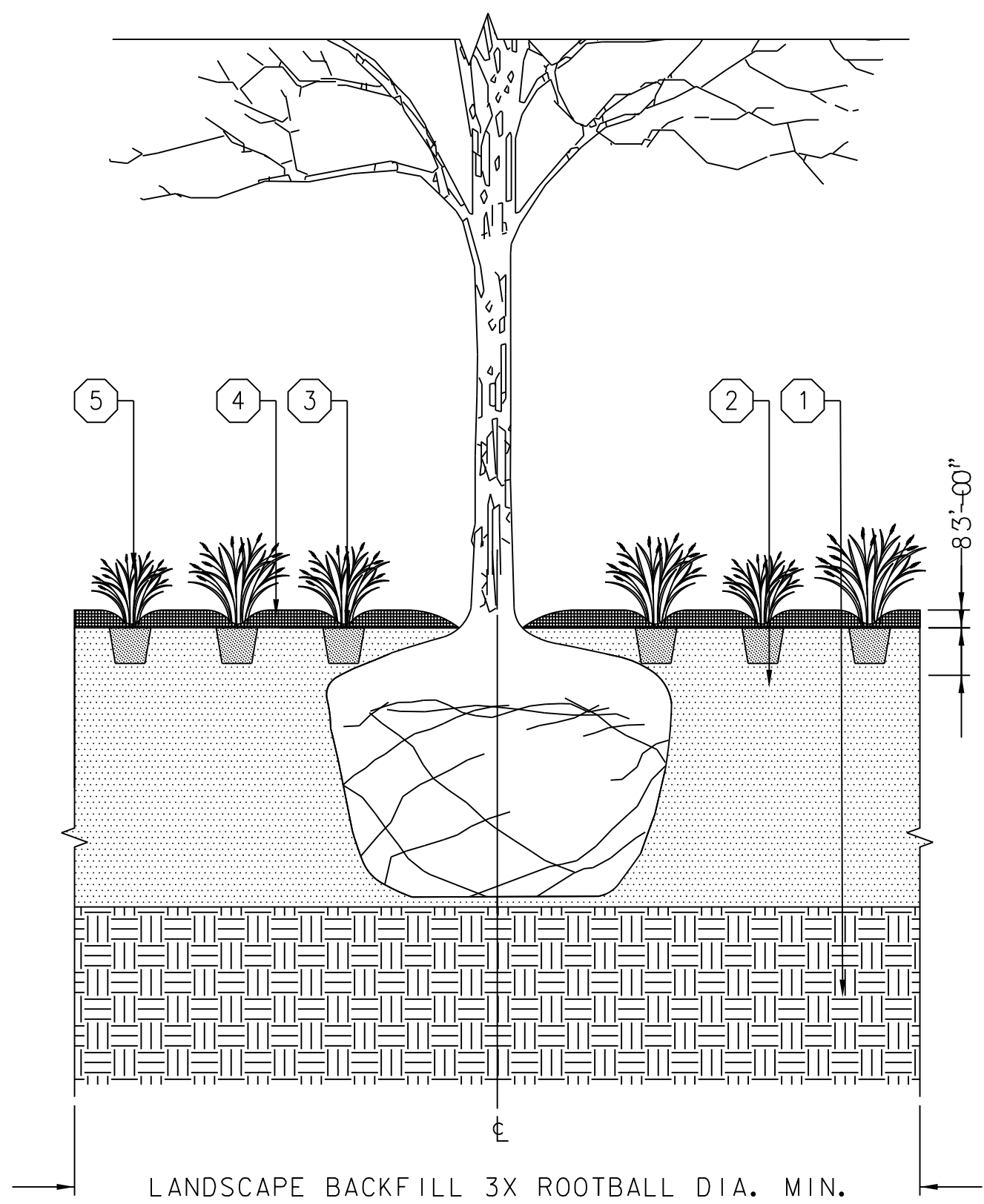
FILE NAME: z57634det.dgn  
PROJECT LEADER: M.A. COLGAN  
DESIGNED BY: SASAKI  
DETAIL SHEETS (2 OF 5)

PLOT DATE: 3/23/2016  
DRAWN BY: P.A. MILLER  
CHECKED BY: E.B. PARIZO  
SHEET 12 OF 119



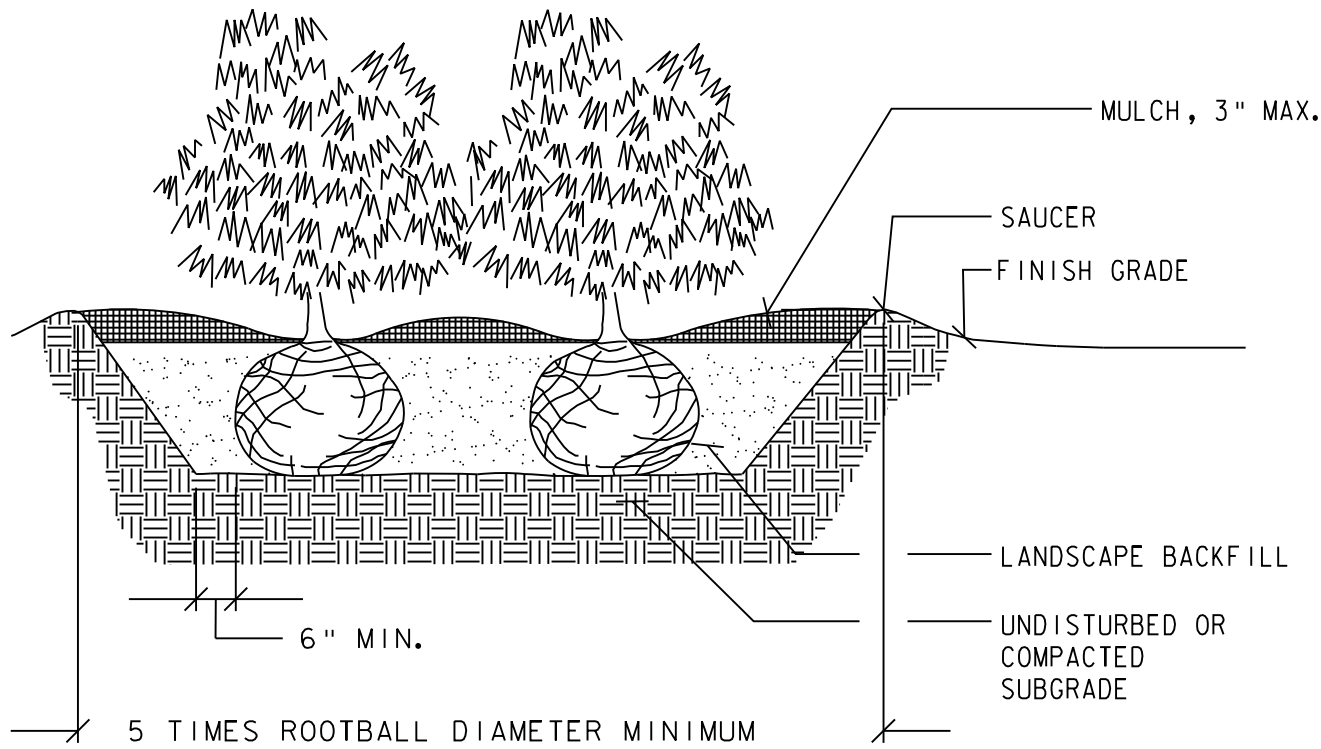






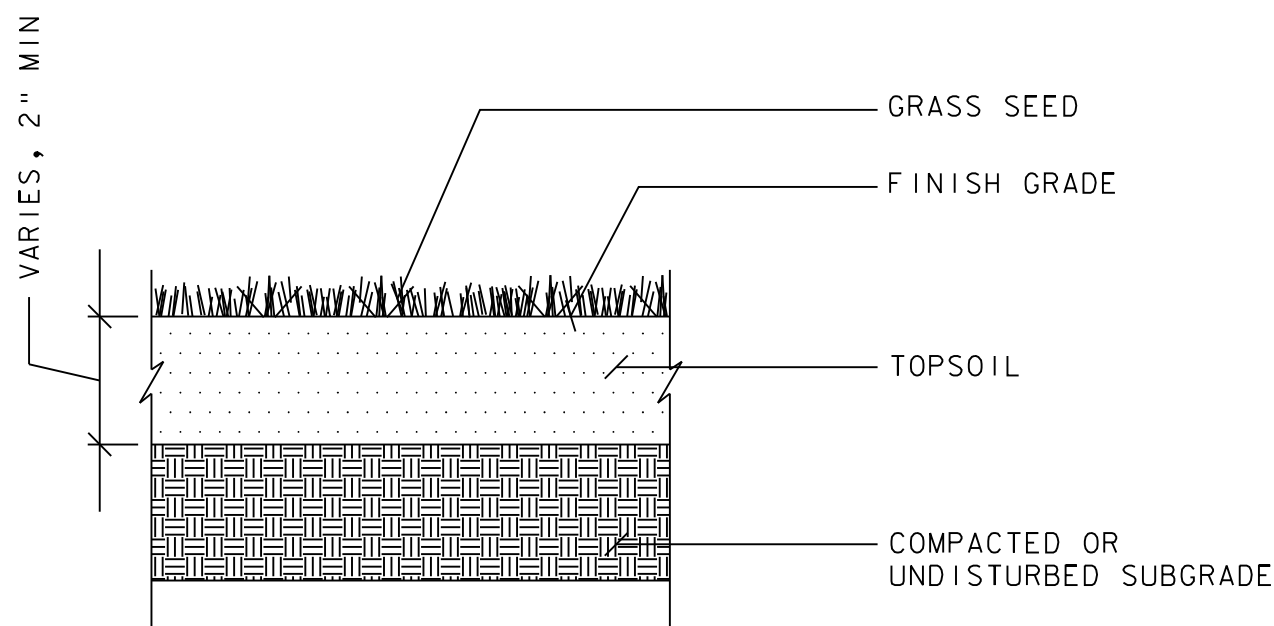
TREE PLANTING AT PERENNIAL PLANTING BED

SCALE: 1/2" = 1' 0"



DECIDUOUS SHRUB PLANTING

SCALE: N. T. S.



SEEDDED LAWN

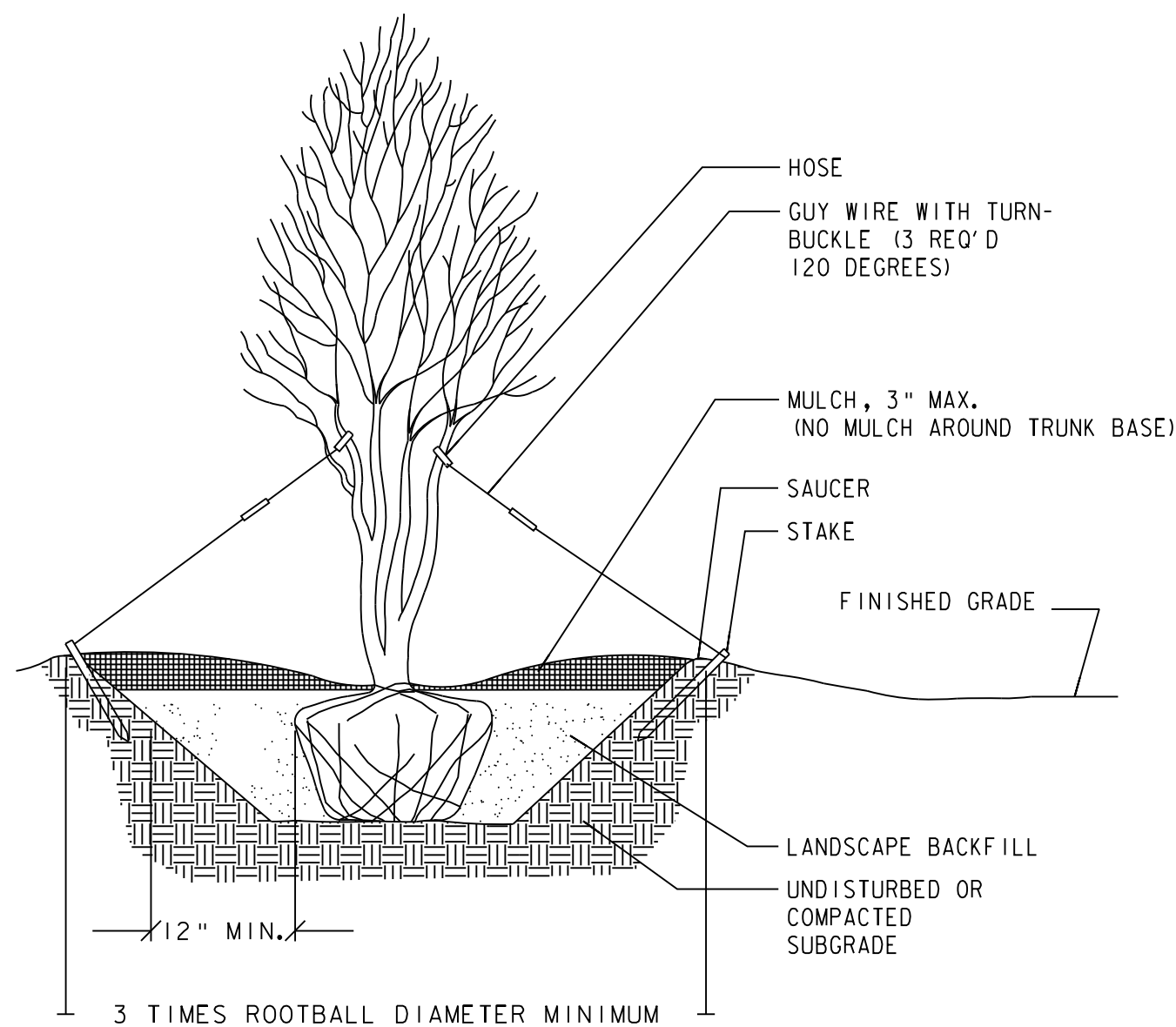
SCALE: 1" = 1' 0"

LEGEND

1. COMPACTED OR UNDISTURBED SUBSOIL
2. LANDSCAPE BACKFILL
3. FINISHED GRADE
4. MULCH
5. HERBACEOUS PLANTS

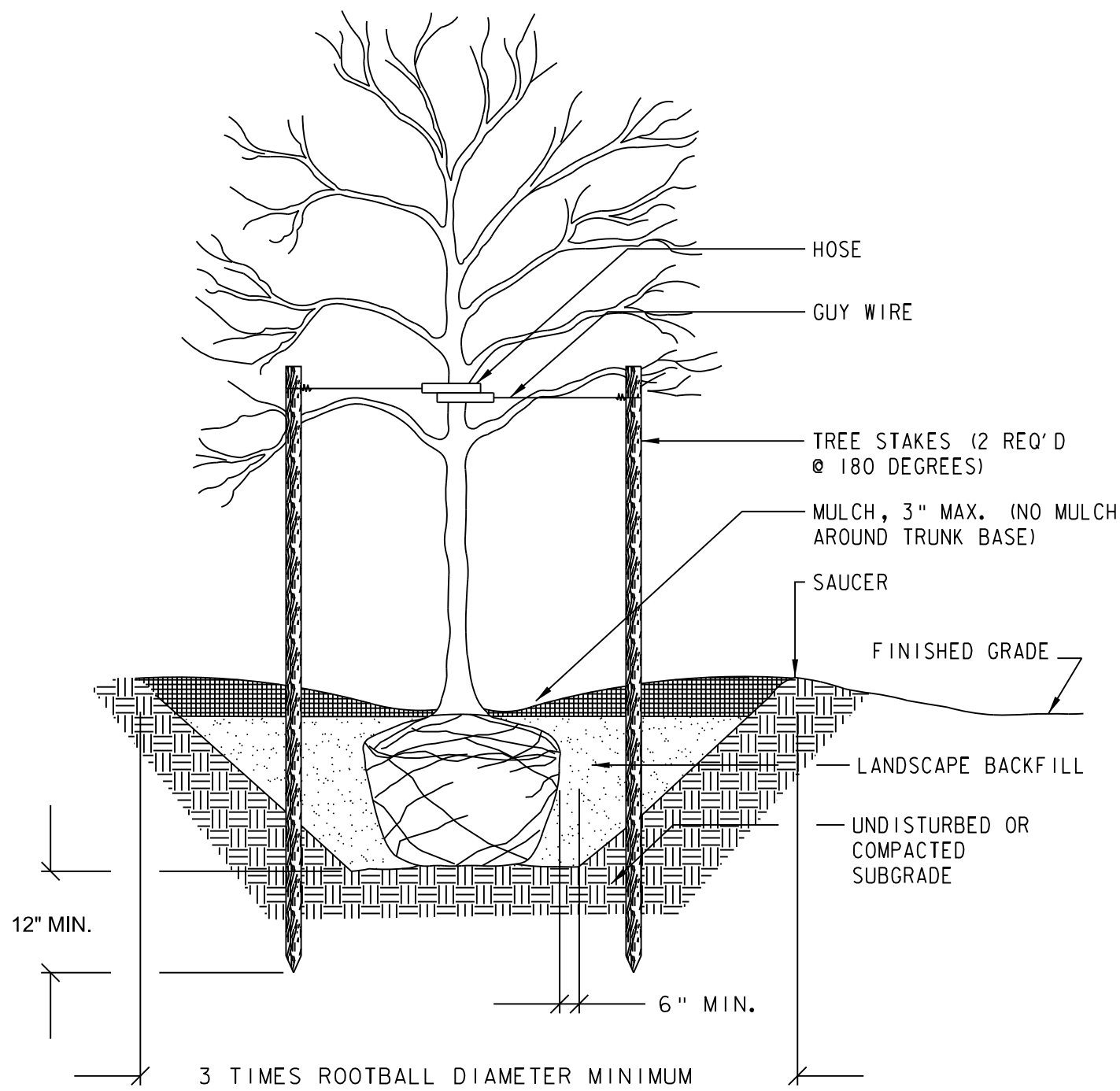
NOTES

1. TREE TRUNK TO BE PLUMB VERTICAL
2. DO NOT BURY BASE OF TREE TRUNK
3. DO NOT BURY STEMS OF HERBACEOUS PLANTINGS
4. HERBACEOUS PLANTINGS MAY BE PLANTED OVER ROOTBALL OF TREES AS LONG AS FINISHED GRADE IS MAINTAINED - ROOTBALL OF HERBACEOUS PLANTS MAY BE LOOSENEED AND ADJUSTED TO ACCOMMODATE PLACEMENT AS LONG AS ROOTS ARE NOT DAMAGED



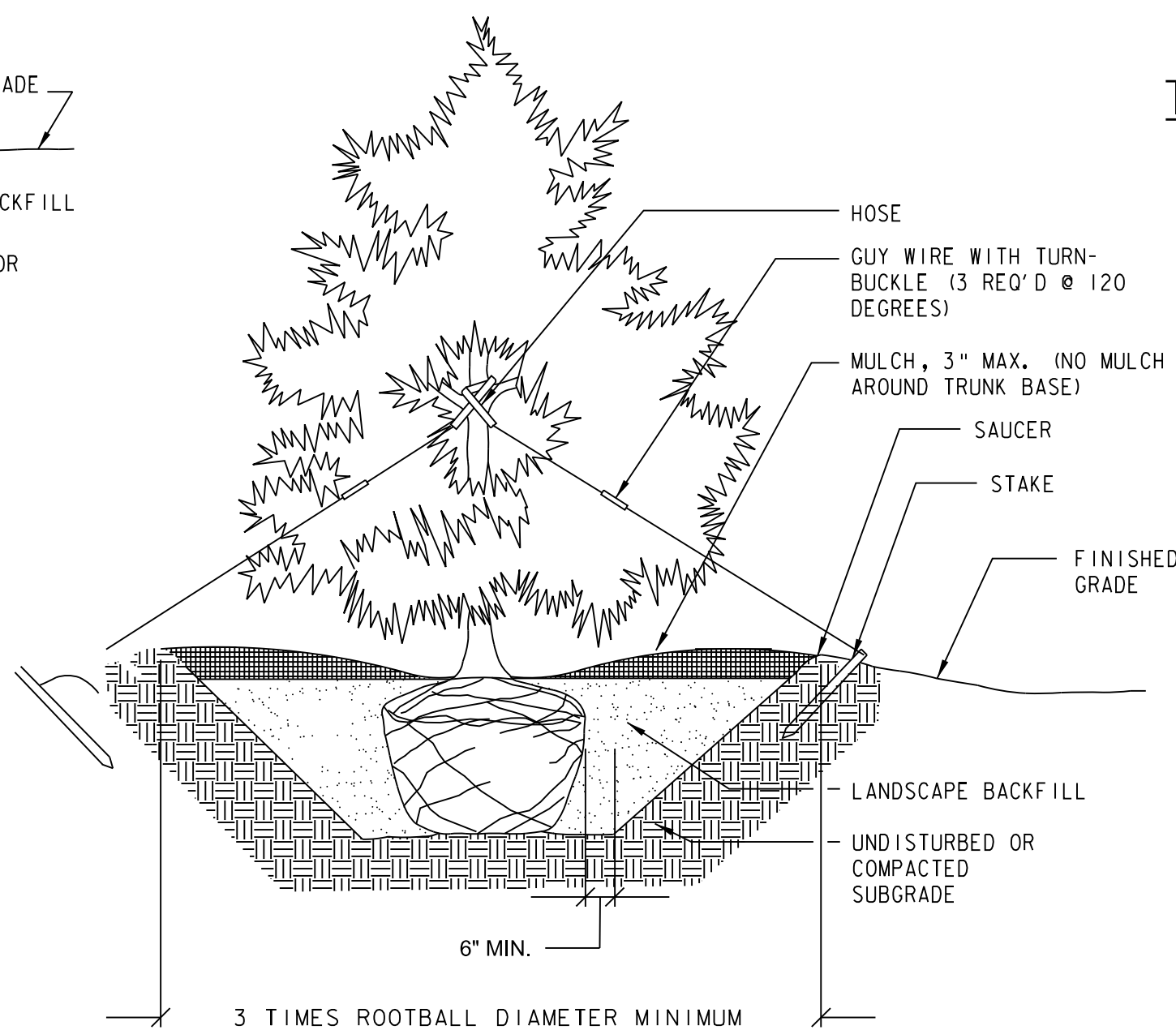
MULTISTEMMED TREE PLANTING

SCALE: N. T. S.



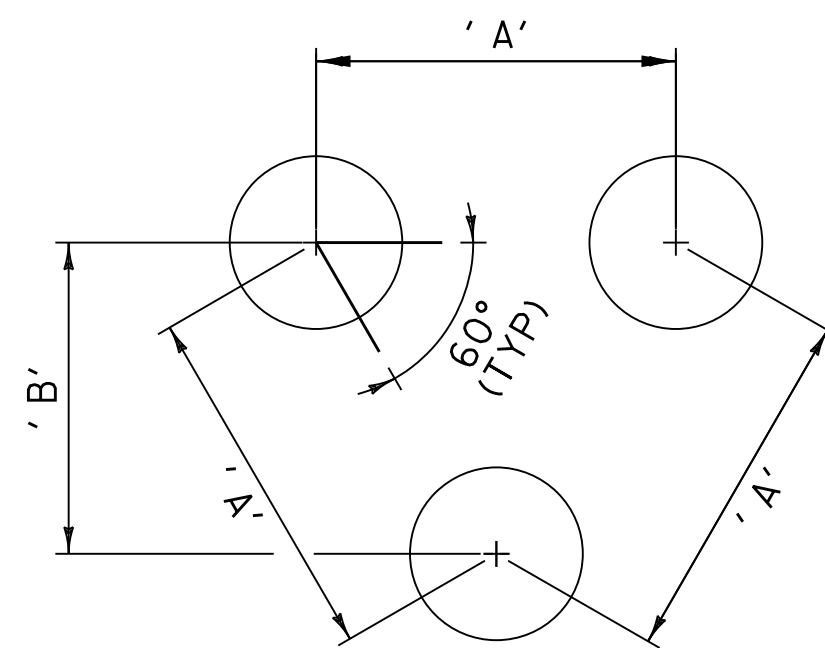
DECIDUOUS TREE PLANTING STAKED

SCALE: N. T. S.



CONIFEROUS TREE PLANTING

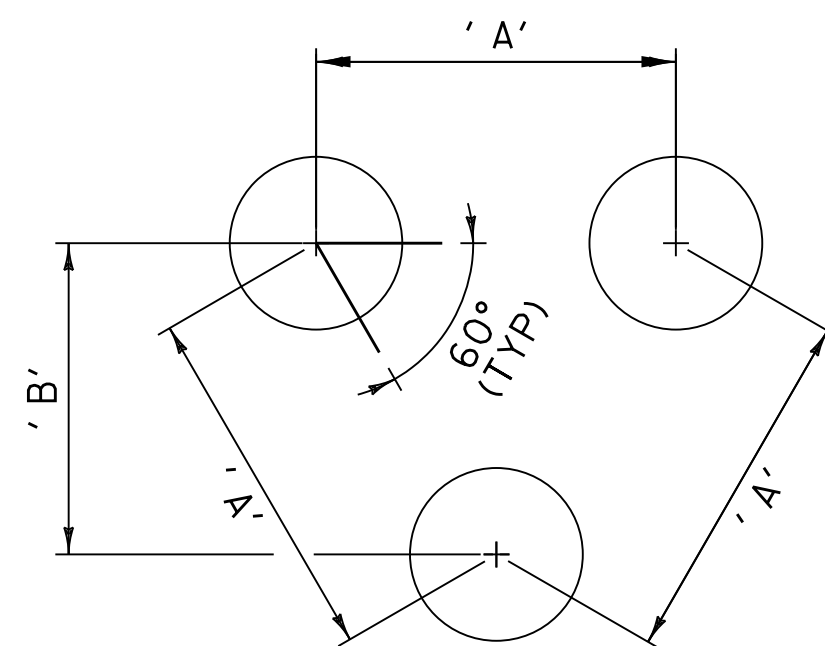
SCALE: N. T. S.



PLANT SPACING CHART

NOT TO SCALE

PLANT SPACING O. C. ( ' A ' )	ROW SPACING O. C. ( ' B ' )
6 "	5 "
8 "	7 "
10 "	8 1/2 "
12 "	10 1/2 "
15 "	13 "
18 "	16 "
24 "	21 "
30 "	26 "



TREE SPACING CHART

NOT TO SCALE

TREE SPACING O. C. ( ' A ' )	ROW SPACING O. C. ( ' B ' )
6' - 0 "	5' - 2 "
7' - 0 "	6' - 0 "
8' - 0 "	7' - 0 "
10' - 0 "	8' - 8 "
12' - 0 "	10' - 5 "
15' - 0 "	13' - 0 "
20' - 0 "	17' - 4 "
25' - 0 "	21' - 8 "
30' - 0 "	26' - 0 "

PROJECT NAME: BURLINGTON BIKE PATH

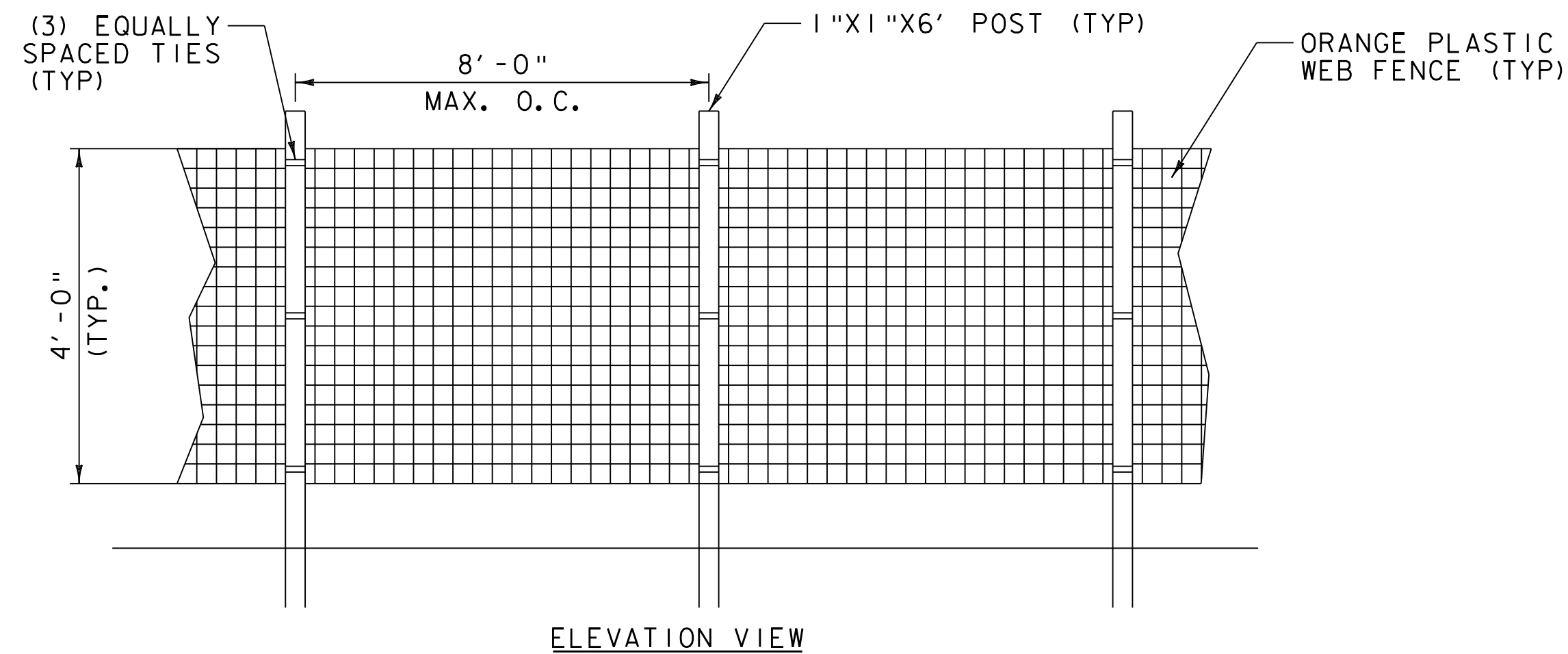
PROJECT NUMBER: 57634.00

FILE NAME: z57634det.dgn  
PROJECT LEADER: M.A. COLGAN  
DESIGNED BY: P.A. MILLER  
DETAIL SHEETS (4 OF 5)

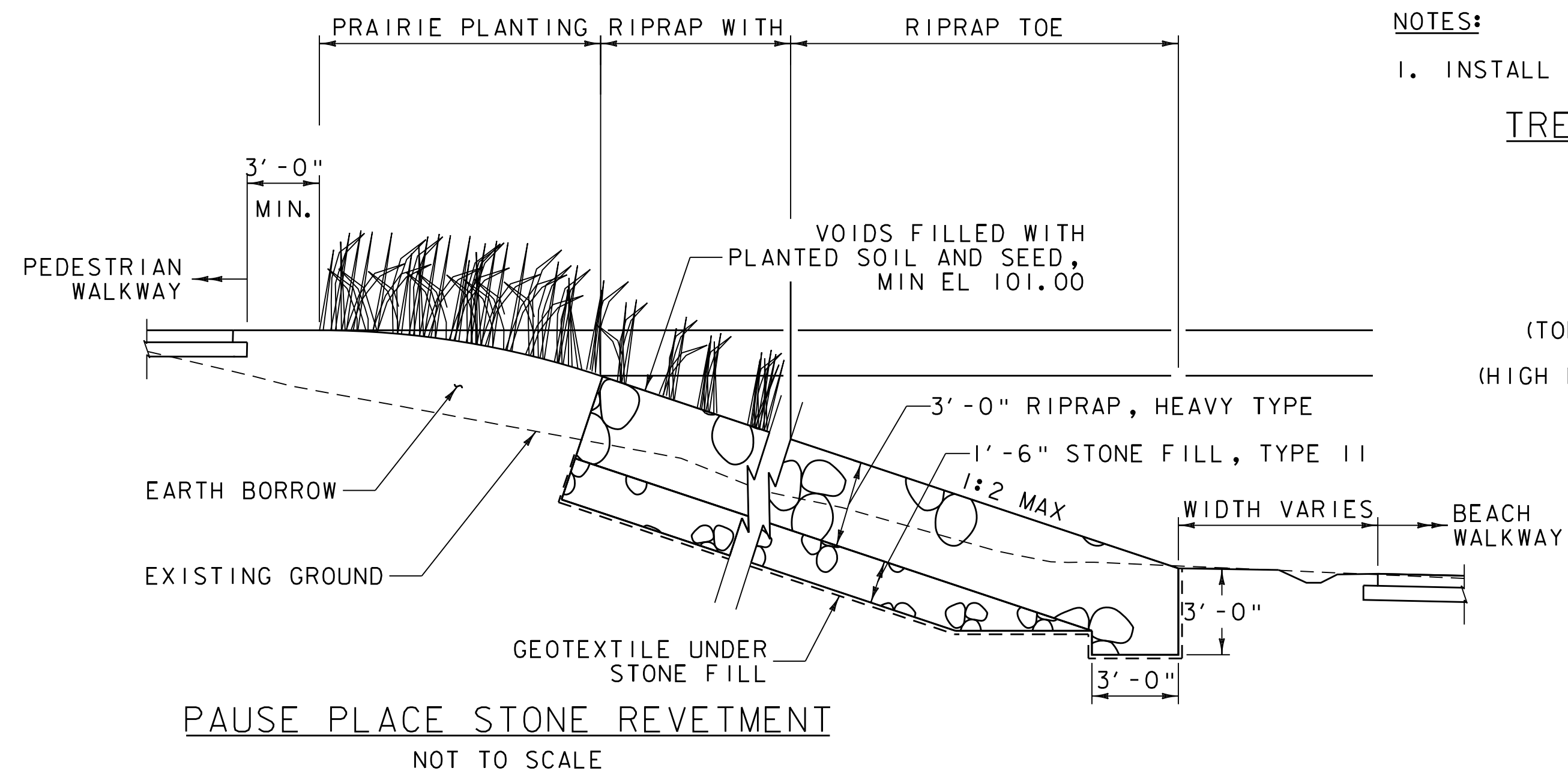
PLOT DATE: 3/23/2016  
DRAWN BY: P.A. MILLER  
CHECKED BY: E.B. PARIZO  
SHEET 14 OF 119



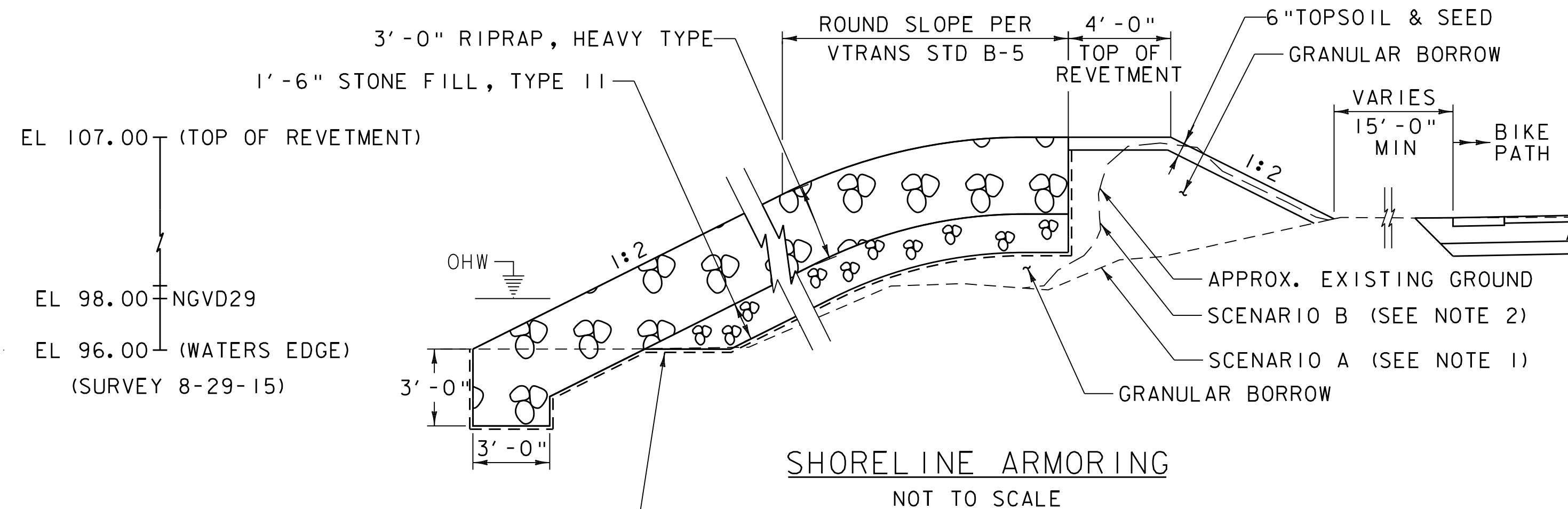
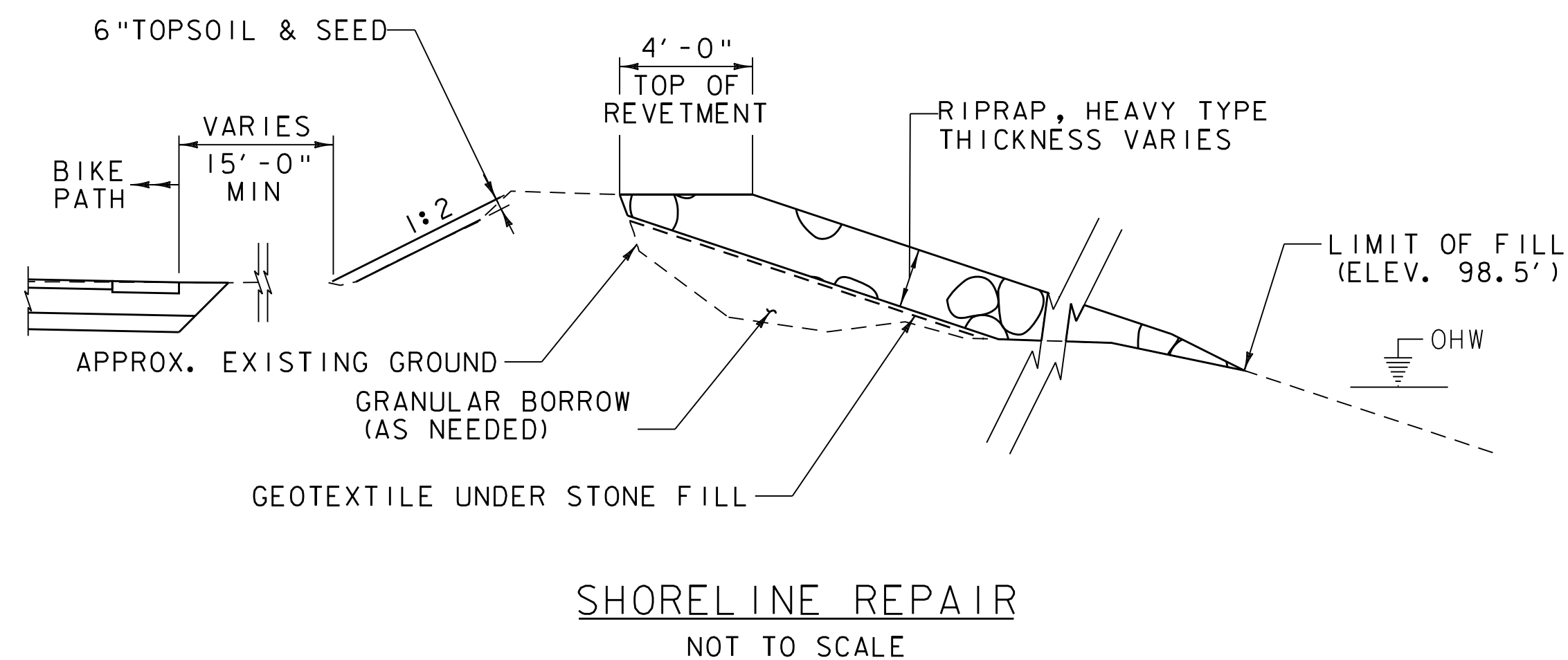
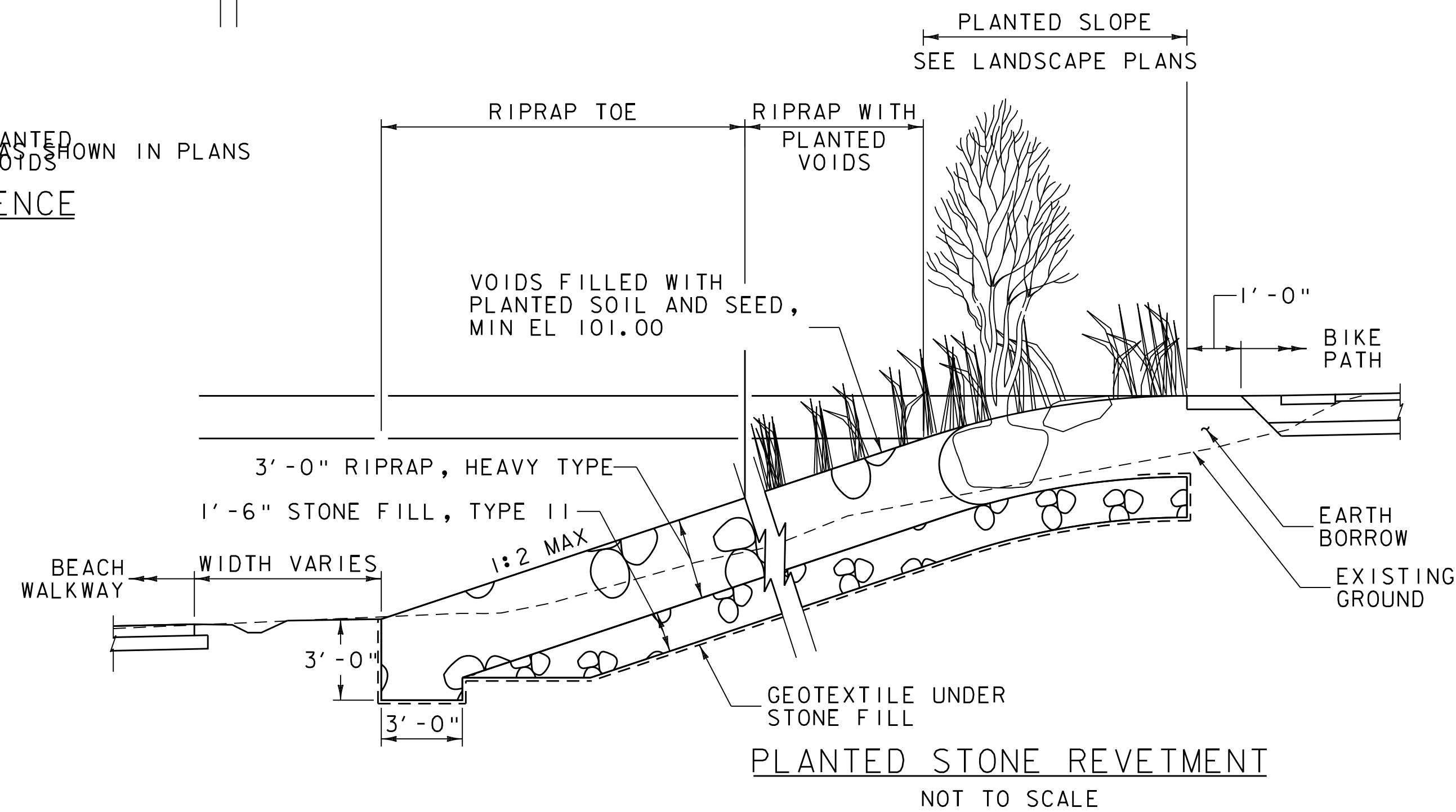




NOTES:  
 1. INSTALL TREE PROTECTION FENCE AS SHOWN IN PLANS  
 SEE LANDSCAPE PLANS  
TREE PROTECTION FENCE  
 NOT TO SCALE



(TOP OF SLOPE) —EL VARIES  
 (HIGH MEAN WATER) —EL 104.00



PROJECT NAME: BURLINGTON BIKE PATH  
 PROJECT NUMBER: 57634.00

FILE NAME: z57634det.dgn  
 PROJECT LEADER: M.A. COLGAN  
 DESIGNED BY: P.A. MILLER  
 DETAIL SHEETS (5 OF 5)

PLOT DATE: 3/23/2016  
 DRAWN BY: P.A. MILLER  
 CHECKED BY: E.B. PARIZO  
 SHEET 15 OF 119





MAIN ALIGNMENT

POINT	STATION	NORTHING	EASTING
PI	132+81.49	723122.4294	1451786.2015
PC	131+58.71	723000.4194	1451799.9007
PT	134+02.90	723236.9002	1451741.8106
PI	135+72.47	723395.0039	1451680.4993
PC	135+37.58	723362.4709	1451693.1153
PT	136+07.29	723425.8753	1451664.2355
PI	138+54.27	723644.3826	1451549.1204
PC	137+21.33	723526.7672	1451611.0831
PRC	139+86.80	723752.5219	1451471.7987
PI	140+41.40	723796.9361	1451440.0416
PRC	139+86.80	723752.5219	1451471.7987
PT	140+95.95	723843.5417	1451411.5976
PI	142+44.69	723970.5040	1451334.1109
PC	142+06.33	723937.7595	1451354.0953
PT	142+82.90	723999.8167	1451309.3653
PI	144+34.54	724115.6871	1451211.5484
PC	143+82.58	724075.9878	1451245.0623
PT	144+84.70	724136.6737	1451164.0219
PI	150+36.84	724359.7083	1450658.9329
PC	147+21.38	724232.2779	1450947.5145
PRC	153+18.61	724655.0991	1450548.1980
PI	154+35.08	724764.1633	1450507.3125
PRC	153+18.61	724655.0991	1450548.1980
PT	155+47.48	724843.9315	1450422.4382
PI	164+13.70	725437.1613	1449791.2344
PC	162+96.53	725356.9173	1449876.6150
PCC	164+31.84	725468.3333	1449801.8724
PRC	165+37.08	725570.4153	1449777.5584
PI	166+68.95	725701.6020	1449764.0946
PRC	165+37.08	725570.4153	1449777.5584
PCC	167+80.07	725777.0521	1449662.7159
PT	168+50.00	725819.4382	1449607.0990
PI	170+52.18	725940.8037	1449445.4011
PC	168+50.00	725819.4382	1449607.0990

POINT	STATION	NORTHING	EASTING
PCC	172+28.39	726034.3309	1449295.7731
PT	172+83.71	726063.8072	1449248.9593
PI	174+13.87	726132.8817	1449138.6443
PC	173+96.91	726123.8856	1449153.0115
PRC	174+30.80	726140.8841	1449123.7008
PI	174+96.36	726171.8320	1449065.9094
PRC	174+30.80	726140.8841	1449123.7008
PRC	175+61.83	726207.7038	1449011.0384
PI	176+23.83	726241.6287	1448959.1453
PRC	175+61.83	726207.7038	1449011.0384
PCC	175+97.84	726226.6742	1448980.4414
PRC	178+41.26	726347.6200	1448769.1953
PI	179+00.90	726376.6783	1448717.1192
PRC	178+41.26	726347.6200	1448769.1953
PT	179+60.51	726407.7900	1448666.2431
PI	181+30.14	726496.2860	1448521.5277
PC	180+10.18	726433.7019	1448623.8700
PT	182+50.00	726566.1359	1448423.9997
PI	184+95.53	726709.1031	1448224.3812
PC	183+30.98	726613.2903	1448358.1603
PCC	184+95.07	726714.7766	1448229.2953
PT/POE	188+00.00	726919.7505	1448003.5758

WATERFRONT PARK TIE IN

POINT	STATION	NORTHING	EASTING
POB	129+50.00	722849.6689	1451929.7391
PI	130+85.09	722918.3740	1451813.4277
PC	130+10.64	722880.5110	1451877.5262
PT	131+50.00	722991.7937	1451801.1077

WATERFRONT PARK SIDEWALK

POINT	STATION	NORTHING	EASTING
POB	203+75.00	722854.2249	1451748.0696
PI	203+97.69	722883.0339	1451815.7552
PT	204+18.58	722899.6777	1451833.3723
POE	204+31.28	722908.3931	1451842.5974

TEXACO BEACH WALKWAY

POINT	STATION	NORTHING	EASTING
POB	300+00.00	725582.4405	1449770.5208
PI	301+05.95	725674.9875	1449718.9411
PC	300+34.65	725612.7080	1449753.6517
PT	301+68.45	725689.6665	1449649.1695

DOG PARK  
(AS LABELED ON LAYOUT SHEETS)

POINT	STATION	NORTHING	EASTING
A	N/A	724464.5369	1450866.9480
B	N/A	724642.4052	1450737.4765
C	N/A	724747.5220	1450660.9603
D	N/A	724712.1988	1450612.4610
E	N/A	724706.3137	1450604.3761
F	N/A	724698.2288	1450610.2612
G	N/A	724704.1138	1450618.3461
H	N/A	724607.0987	1450688.9723
I	N/A	724676.8884	1450563.9515
J	N/A	724401.9800	1450764.0300
K	N/A	724393.9128	1450769.9313
L	N/A	724399.7600	1450778.0000
M	N/A	724407.8800	1450772.1500

LEGEND

POB	POINT OF BEGINNING ALIGNMENT
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
PT	POINT OF TANGENT
PCC	POINT OF COMPOUND CURVATURE
PRC	POINT OF REVERSE CURVATURE
POE	POINT OF END ALIGNMENT
STA. EQN	STATION EQUATION POINT

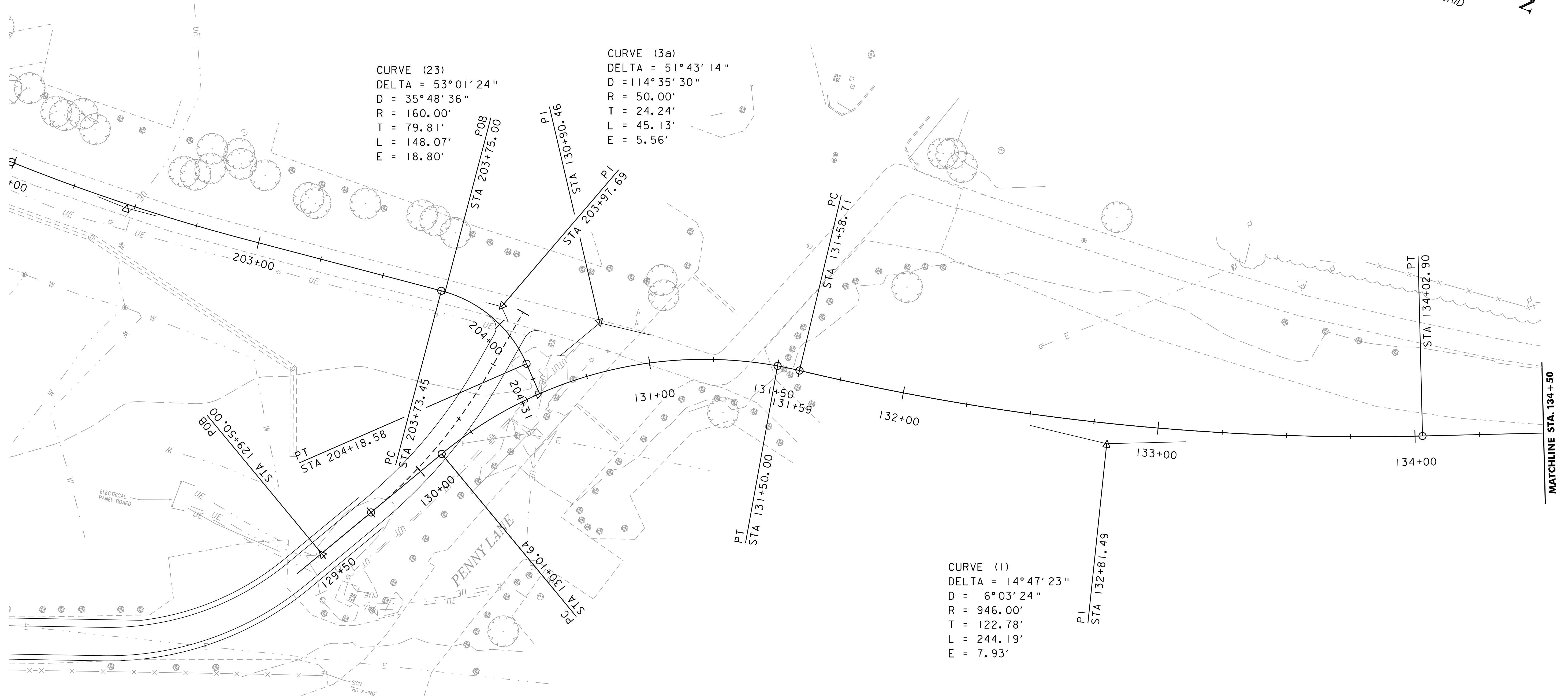
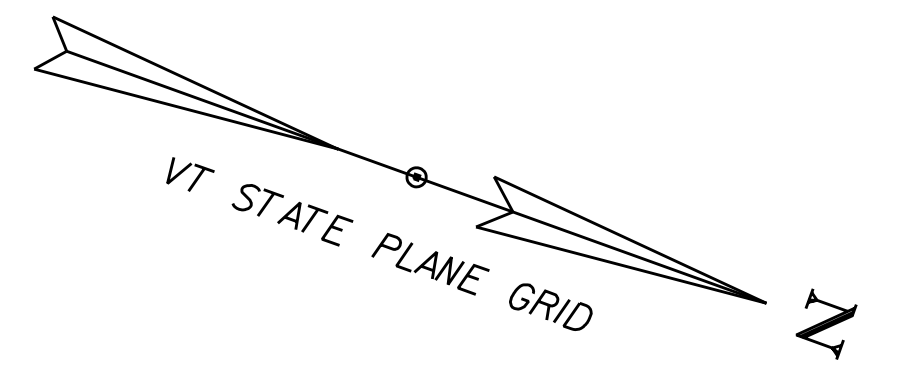
NOTE: PLEASE REFERENCE ALIGNMENT SHEETS FOR INFORMATION REGARDING POINTS OF INTERSECTION BETWEEN MULTIPLE ALIGNMENTS.

PROJECT NAME: BURLINGTON BIKE PATH  
PROJECT NUMBER: 57634.00

FILE NAME: z57634ali_pt.dgn	PLOT DATE: 3/23/2016
PROJECT LEADER: M.A. COLGAN	DRAWN BY: E.B. PARIZO
DESIGNED BY: D.M. PECK	CHECKED BY: D.M. PECK
ALIGNMENT POINTS SHEET	SHEET 16 OF 119







SCALE 1" = 20'-0"  
20 0 20

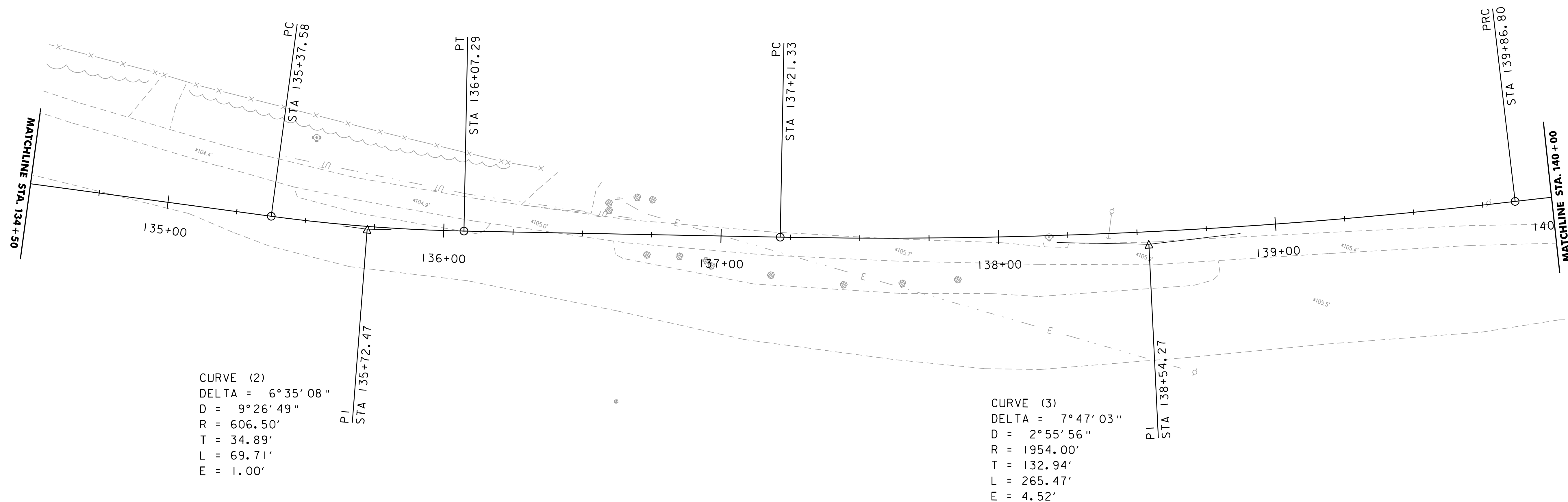
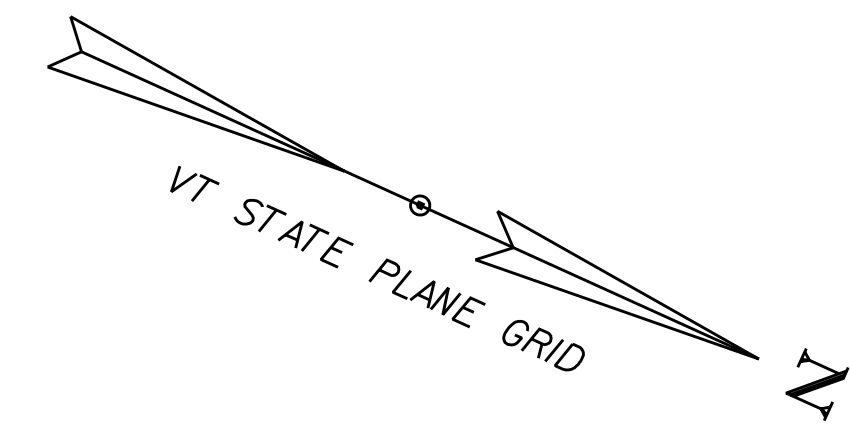


PROJECT NAME: BURLINGTON BIKE PATH  
PROJECT NUMBER: 57634.00

FILE NAME: z57634bdr_all.dgn  
PROJECT LEADER: M.A. COLGAN  
DESIGNED BY: D.A. GINGRAS  
ALIGNMENT SHEET (1 OF 11)

PLOT DATE: 3/23/2016  
DRAWN BY: M.F. SUFFEL  
CHECKED BY: E.B. PARIZO  
SHEET 17 OF 119



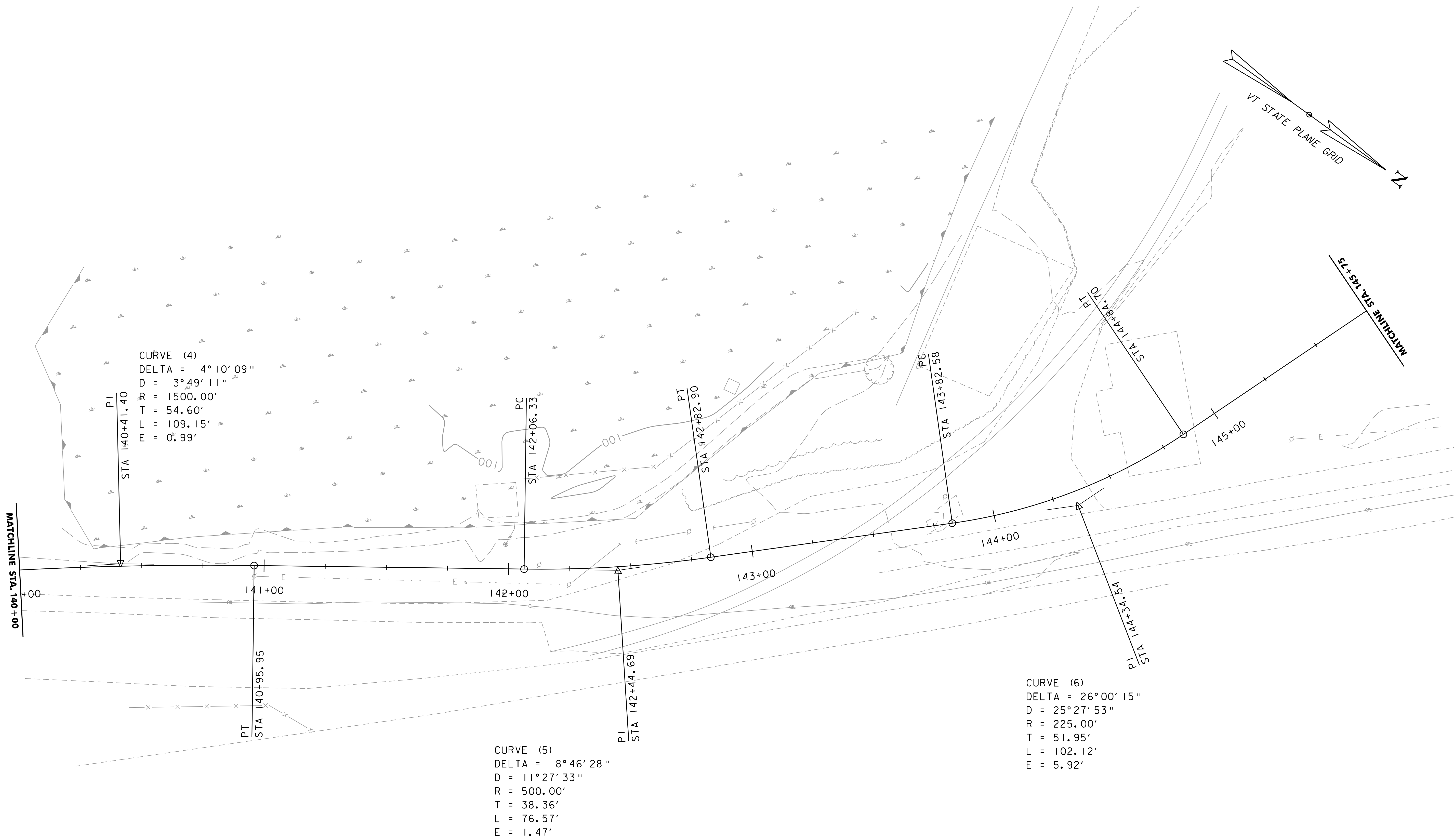


SCALE 1" = 20'-0"  
20 0 20



PROJECT NAME: BURLINGTON BIKE PATH	
PROJECT NUMBER: 57634.00	
FILE NAME: z57634bdr_all.dgn	PLOT DATE: 3/23/2016
PROJECT LEADER: M.A. COLGAN	DRAWN BY: M.F. SUFFEL
DESIGNED BY: D.A. GINGRAS	CHECKED BY: E.B. PARIZO
ALIGNMENT SHEET (2 OF 11)	SHEET 18 OF 119



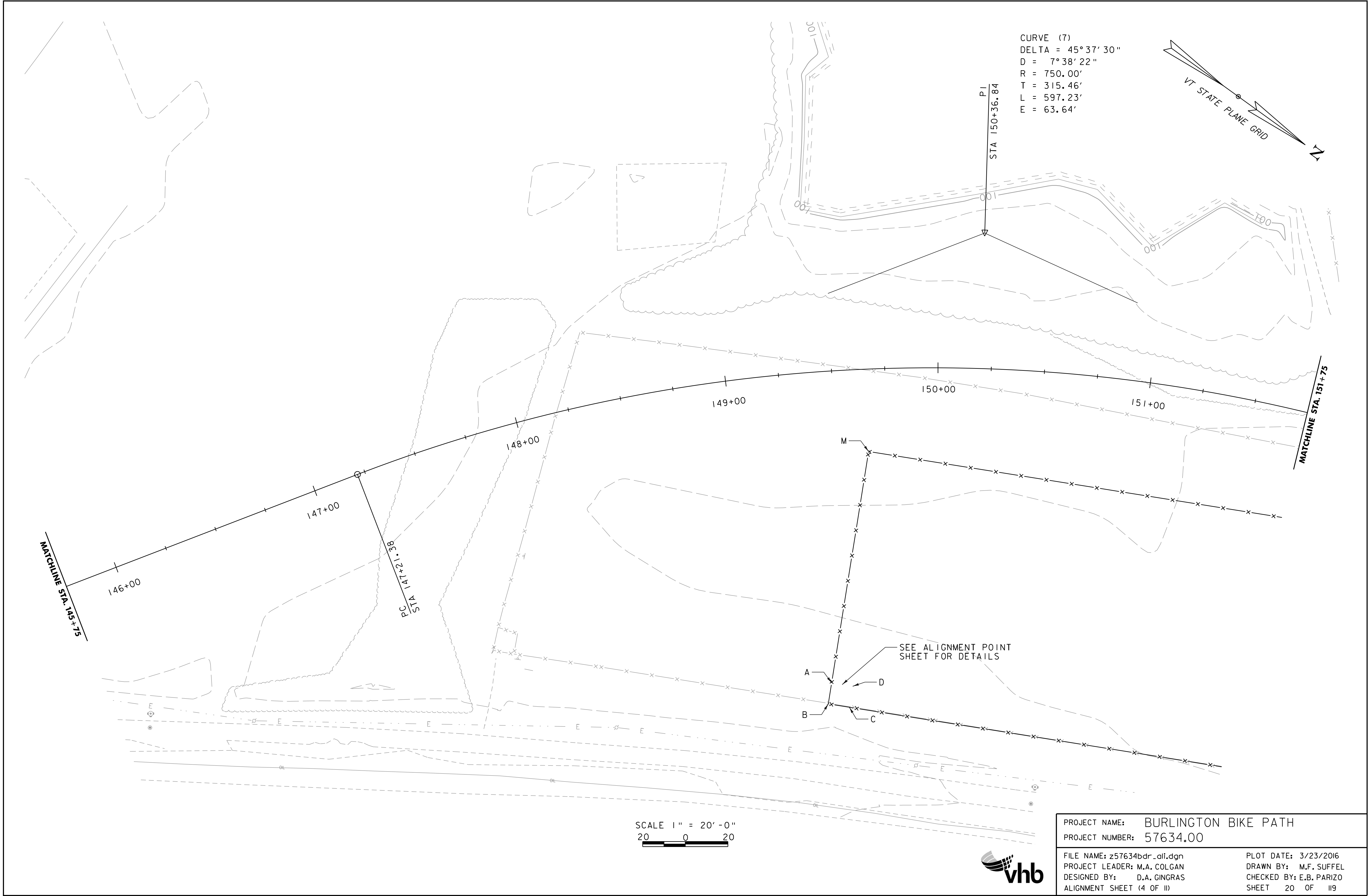


SCALE 1" = 20'-0"  
20 0 20

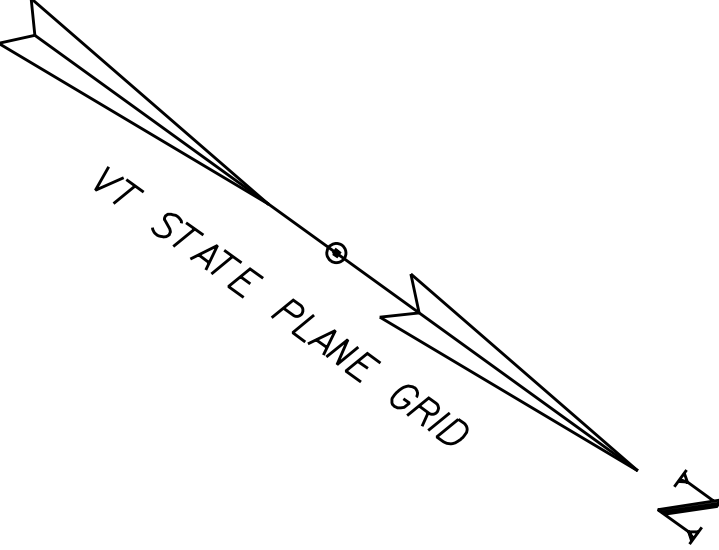


PROJECT NAME: BURLINGTON BIKE PATH	
PROJECT NUMBER: 57634.00	
FILE NAME: z57634bdr_all.dgn	PLOT DATE: 3/23/2016
PROJECT LEADER: M.A. COLGAN	DRAWN BY: M.F. SUFFEL
DESIGNED BY: D.A. GINGRAS	CHECKED BY: E.B. PARIZO
ALIGNMENT SHEET (3 OF 11)	SHEET 19 OF 119





CURVE (7)  
DELTA = 45° 37' 30"  
D = 7° 38' 22"  
R = 750.00'  
T = 315.46'  
L = 597.23'  
E = 63.64'

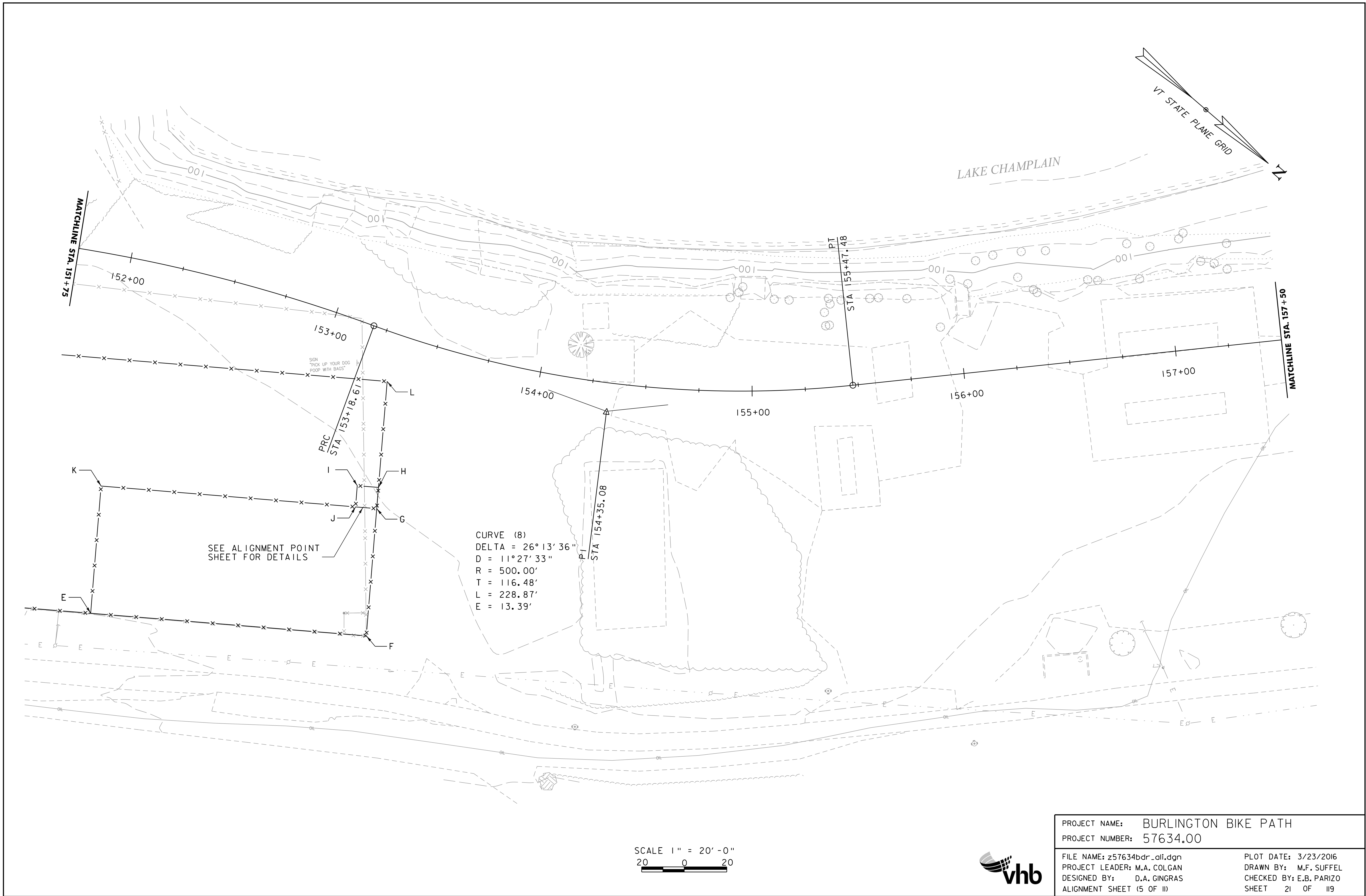


SCALE 1" = 20'-0"  
20 0 20

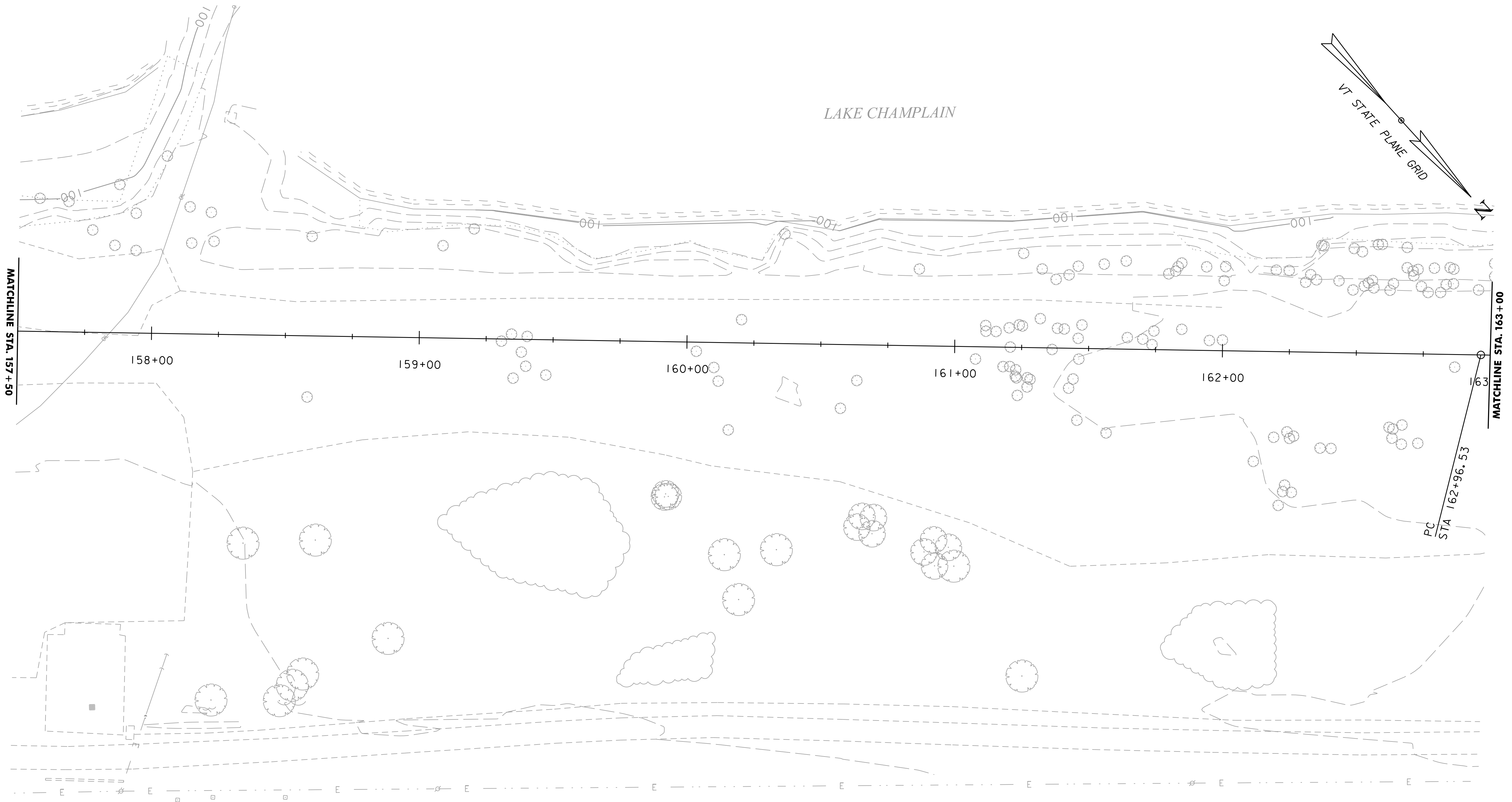
PROJECT NAME: BURLINGTON BIKE PATH	
PROJECT NUMBER: 57634.00	
FILE NAME: z57634bdr_all.dgn	PLOT DATE: 3/23/2016
PROJECT LEADER: M.A. COLGAN	DRAWN BY: M.F. SUFFEL
DESIGNED BY: D.A. GINGRAS	CHECKED BY: E.B. PARIZO
ALIGNMENT SHEET (4 OF 11)	SHEET 20 OF 119









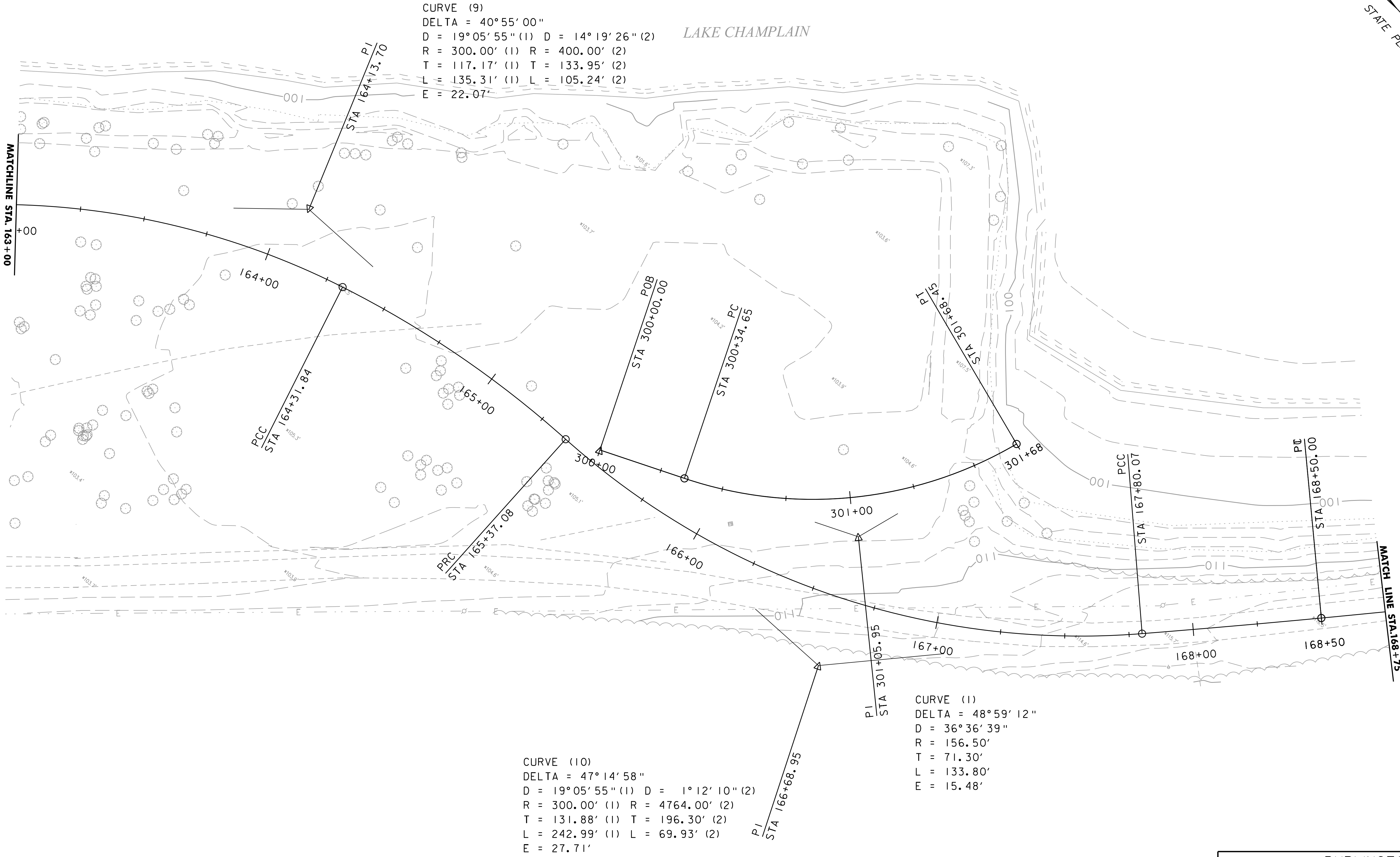
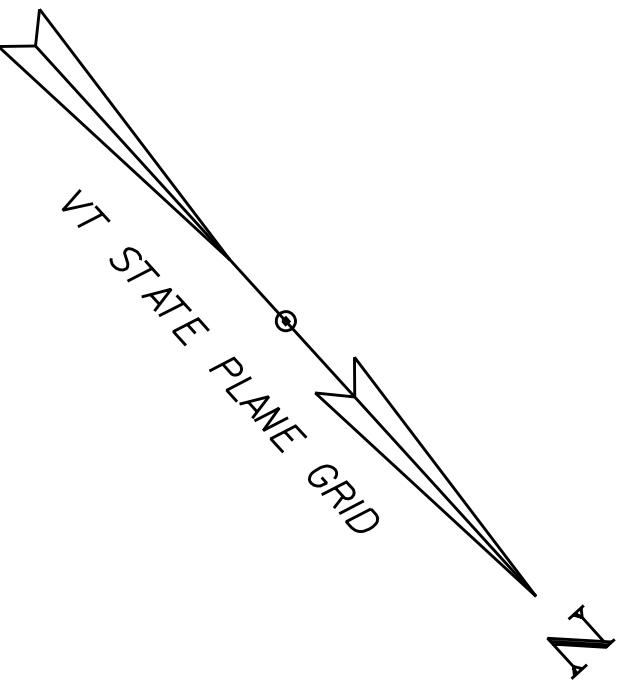


SCALE 1" = 20'-0"  
20 0 20



PROJECT NAME: BURLINGTON BIKE PATH	
PROJECT NUMBER: 57634.00	
FILE NAME: z57634bdr_all.dgn	PLOT DATE: 3/23/2016
PROJECT LEADER: M.A. COLGAN	DRAWN BY: M.F. SUFFEL
DESIGNED BY: D.A. GINGRAS	CHECKED BY: E.B. PARIZO
ALIGNMENT SHEET (6 OF 11)	SHEET 22 OF 119





CURVE (9)  
DELTA = 40°55'00"  
D = 19°05'55" (1) D = 14°19'26" (2)  
R = 300.00' (1) R = 400.00' (2)  
T = 117.17' (1) T = 133.95' (2)  
L = 135.31' (1) L = 105.24' (2)  
E = 22.07'

LAKE CHAMPLAIN

CURVE (10)  
DELTA = 47°14'58"  
D = 19°05'55" (1) D = 1°12'10" (2)  
R = 300.00' (1) R = 4764.00' (2)  
T = 131.88' (1) T = 196.30' (2)  
L = 242.99' (1) L = 69.93' (2)  
E = 27.71'

CURVE (11)  
DELTA = 48°59'12"  
D = 36°36'39"  
R = 156.50'  
T = 71.30'  
L = 133.80'  
E = 15.48'

SCALE 1" = 20'-0"  
20 0 20

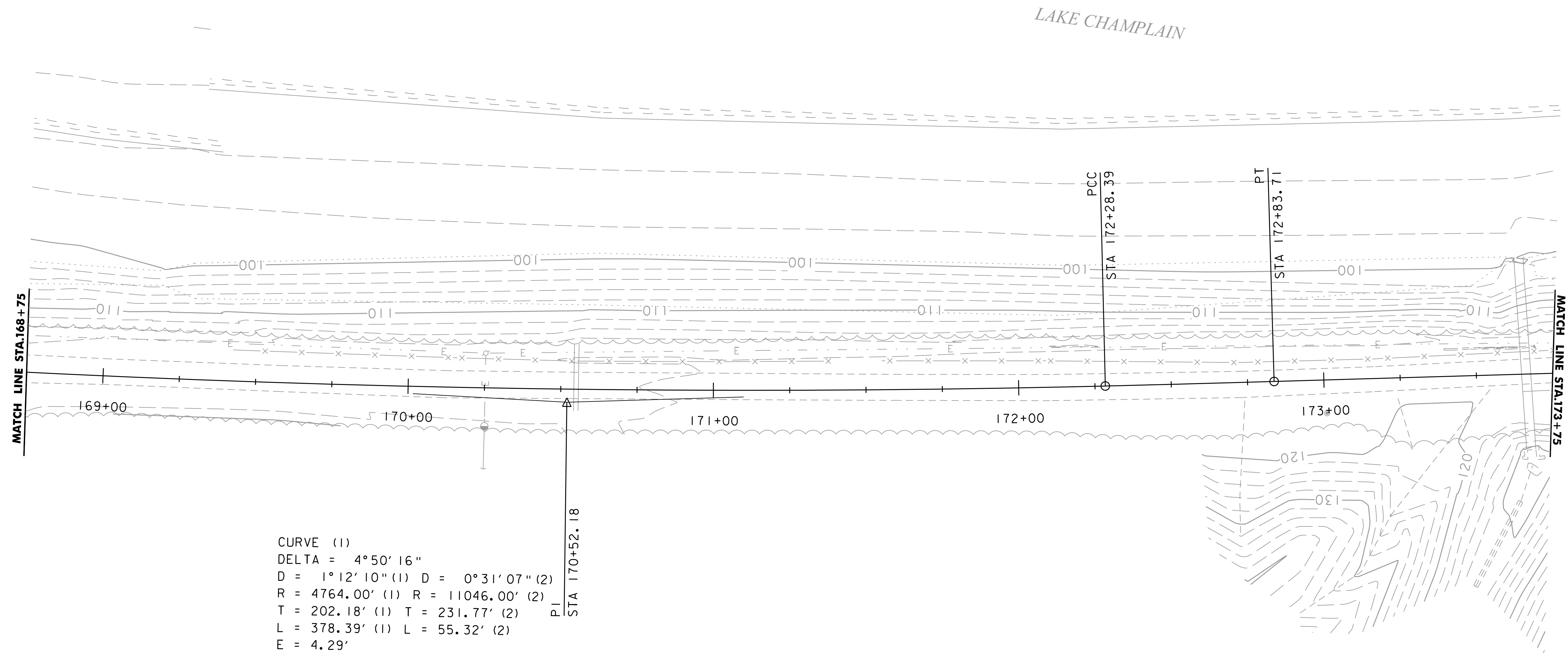
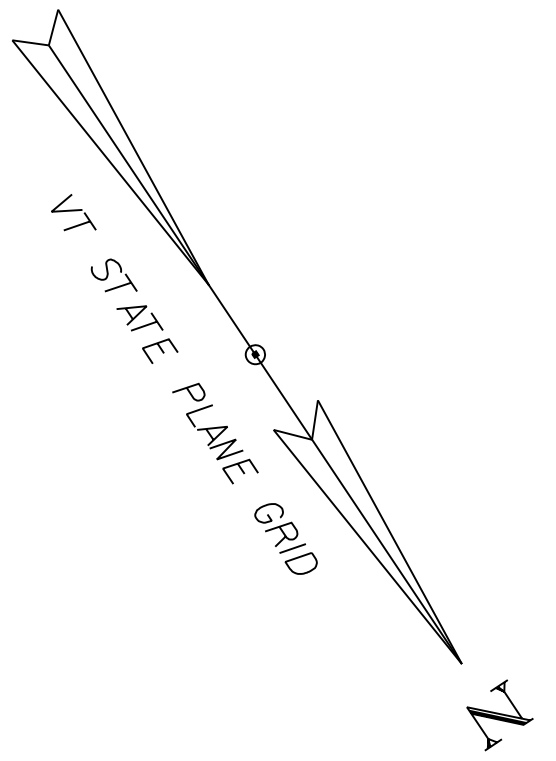


PROJECT NAME: BURLINGTON BIKE PATH  
PROJECT NUMBER: 57634.00

FILE NAME: z57634bdr_all.dgn  
PROJECT LEADER: M.A. COLGAN  
DESIGNED BY: D.M. PECK  
ALIGNMENT SHEET (7 OF 11)

PLOT DATE: 3/23/2016  
DRAWN BY: M.F. SUFFEL  
CHECKED BY: E.B. PARIZO  
SHEET 23 OF 119





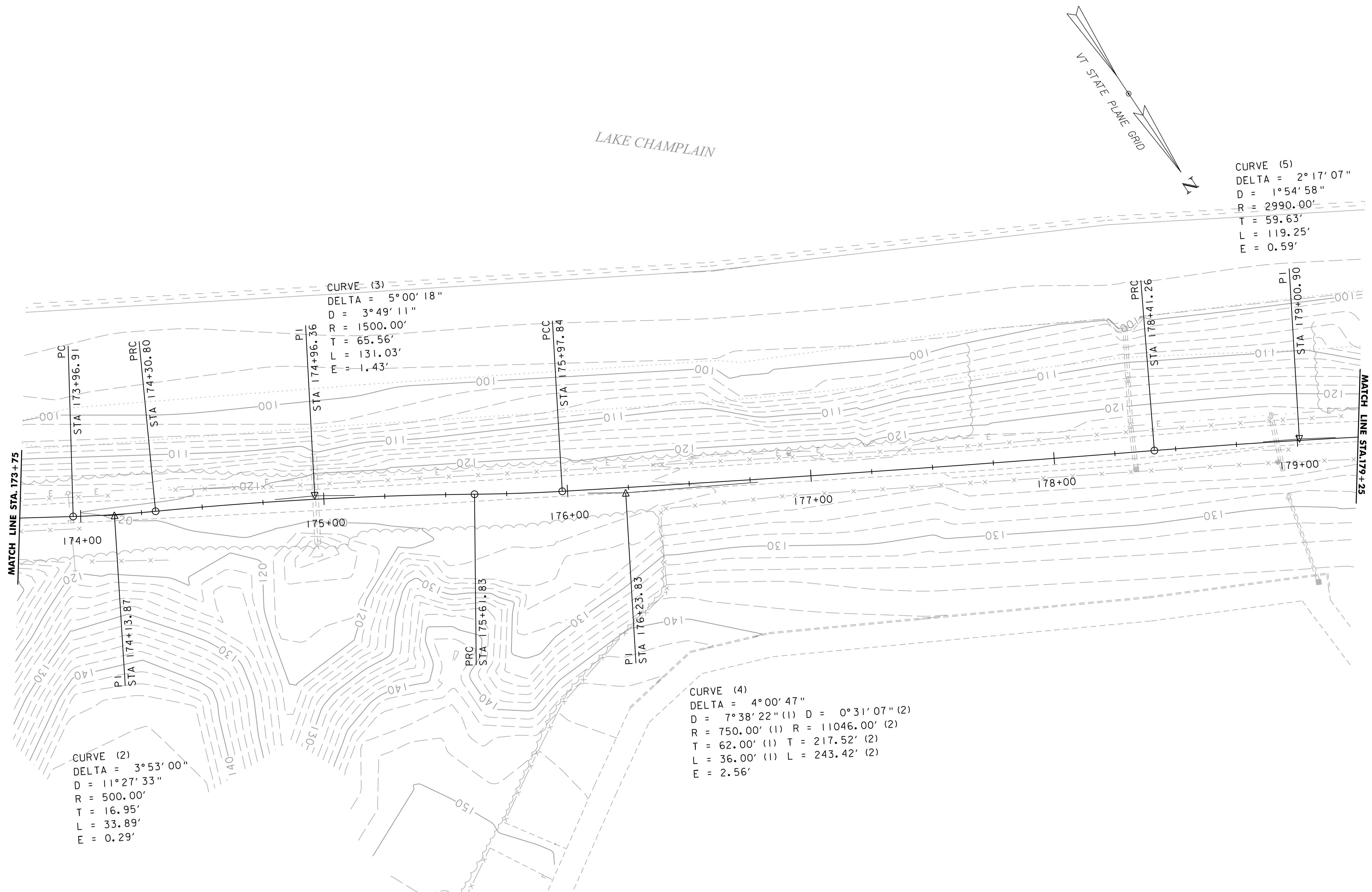
CURVE (1)  
DELTA = 4°50'16"  
D = 1°12'10" (1) D = 0°31'07" (2)  
R = 4764.00' (1) R = 11046.00' (2)  
T = 202.18' (1) T = 231.77' (2)  
L = 378.39' (1) L = 55.32' (2)  
E = 4.29'

SCALE 1" = 20'-0"  
20 0 20



PROJECT NAME: BURLINGTON BIKE PATH	
PROJECT NUMBER: 57634.00	
FILE NAME: z57634bdr_all.dgn	PLOT DATE: 3/23/2016
PROJECT LEADER: M.A. COLGAN	DRAWN BY: M.F. SUFFEL
DESIGNED BY: D.M. PECK	CHECKED BY: E.B. PARIZO
ALIGNMENT SHEET (8 OF 11)	SHEET 24 OF 119





SCALE 1" = 20' - 0"

20 0 20

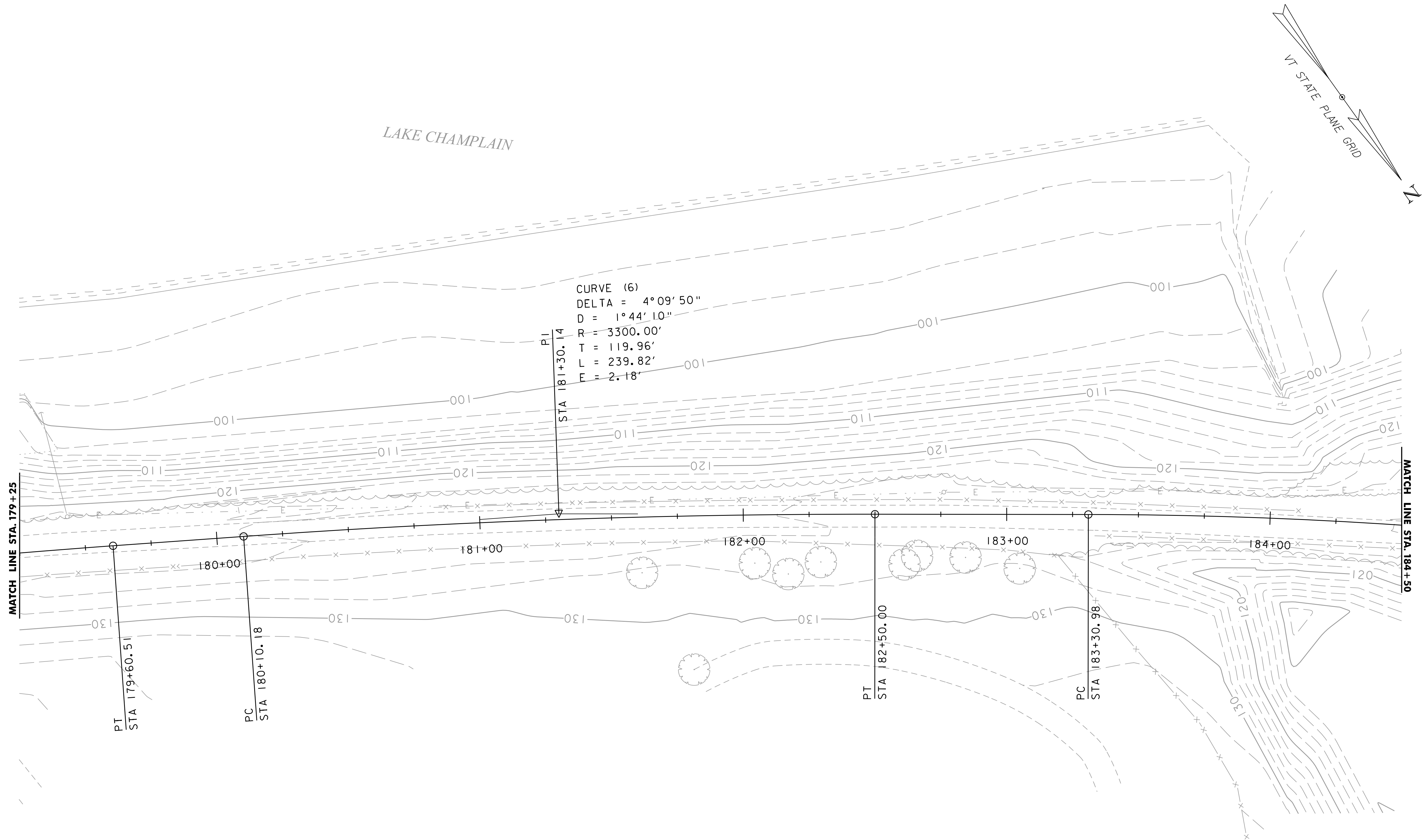


PROJECT NAME: BURLINGTON BIKE PATH  
PROJECT NUMBER: 57634.00

FILE NAME: z57634bdr_all.dgn  
PROJECT LEADER: M.A. COLGAN  
DESIGNED BY: D.M. PECK  
ALIGNMENT SHEET (9 OF 11)

PLOT DATE: 3/23/2016  
DRAWN BY: M.F. SUFFEL  
CHECKED BY: E.B. PARIZO  
SHEET 25 OF 119





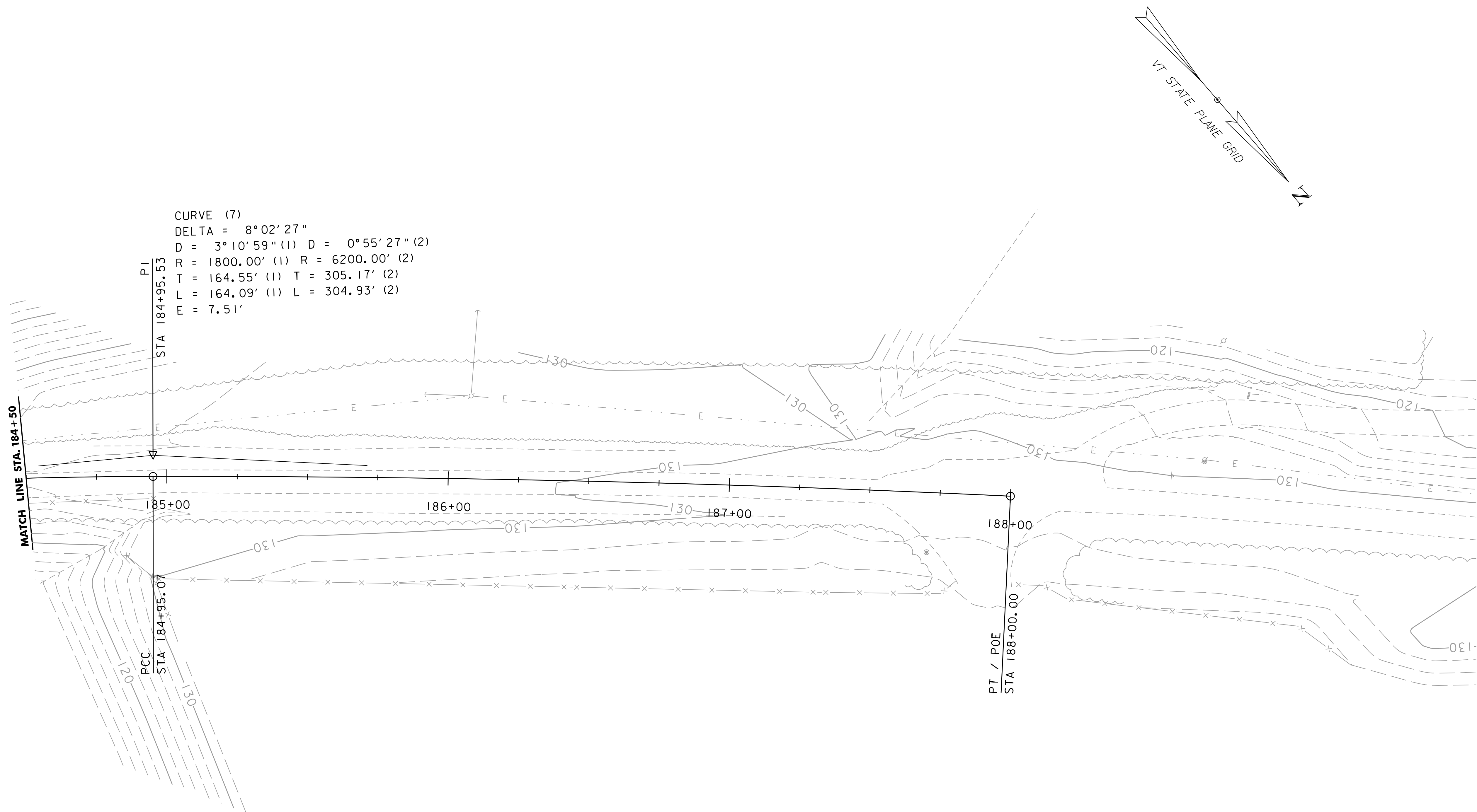
SCALE 1" = 20'-0"

20 0 20



PROJECT NAME: BURLINGTON BIKE PATH	
PROJECT NUMBER: PROJECT NUMBER	
FILE NAME: z57634bdr_.dgn	PLOT DATE: 3/23/2016
PROJECT LEADER: M.A.COLGAN	DRAWN BY: M.F.SUFFEL
DESIGNED BY: D.M.PECK	CHECKED BY: E.B. PARIZO
ALIGNMENT SHEET (10 OF 11)	SHEET 26 OF 119





CURVE (7)  
DELTA = 8°02'27"  
D = 3°10'59" (1) D = 0°55'27" (2)  
R = 1800.00' (1) R = 6200.00' (2)  
T = 164.55' (1) T = 305.17' (2)  
L = 164.09' (1) L = 304.93' (2)  
E = 7.51'

SCALE 1" = 20'-0"  
20 0 20

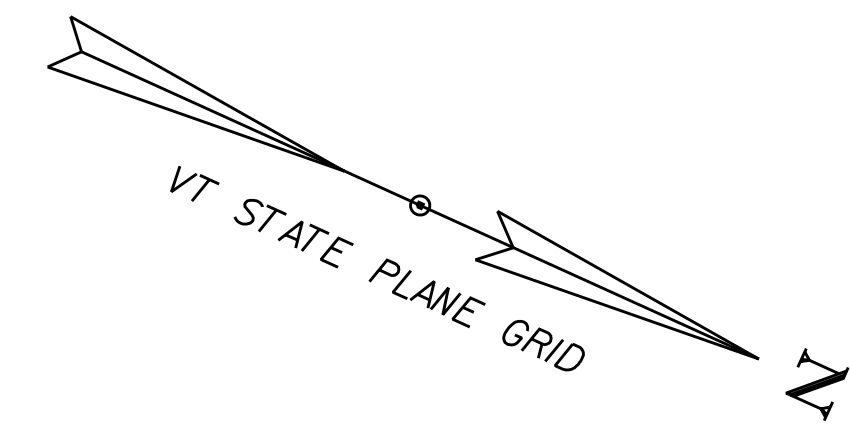


PROJECT NAME: BURLINGTON BIKE PATH	
PROJECT NUMBER: 57634.00	
FILE NAME: z57634bdr_all.dgn	PLOT DATE: 3/23/2016
PROJECT LEADER: M.A.COLGAN	DRAWN BY: M.F.SUFFEL
DESIGNED BY: D.M.PECK	CHECKED BY: E.B. PARIZO
ALIGNMENT SHEET (11 OF 11)	SHEET 27 OF 119

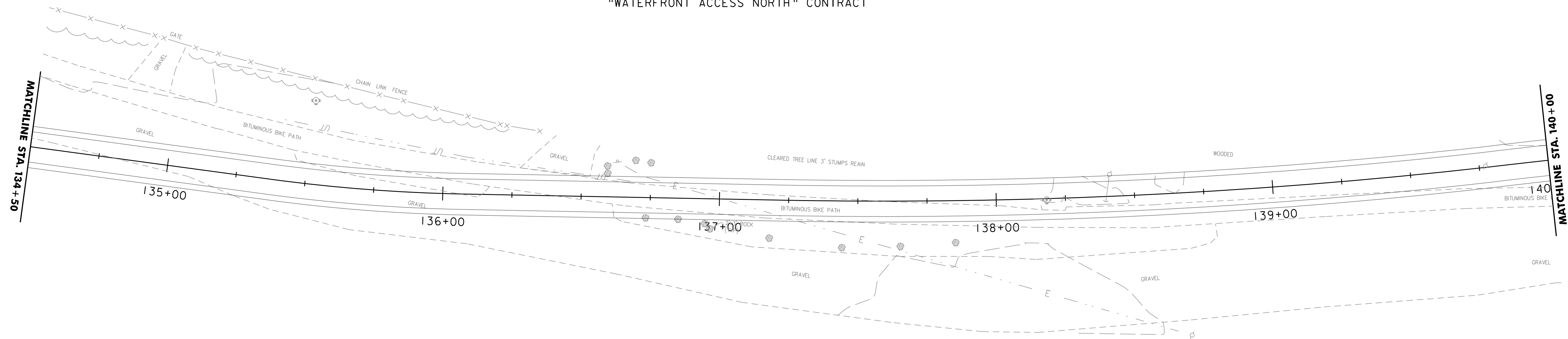


VHB 57634.00





BIKE PATH FROM STA. 131+13  
TO 140+96 CONSTRUCTED UNDER THE  
"WATERFRONT ACCESS NORTH" CONTRACT



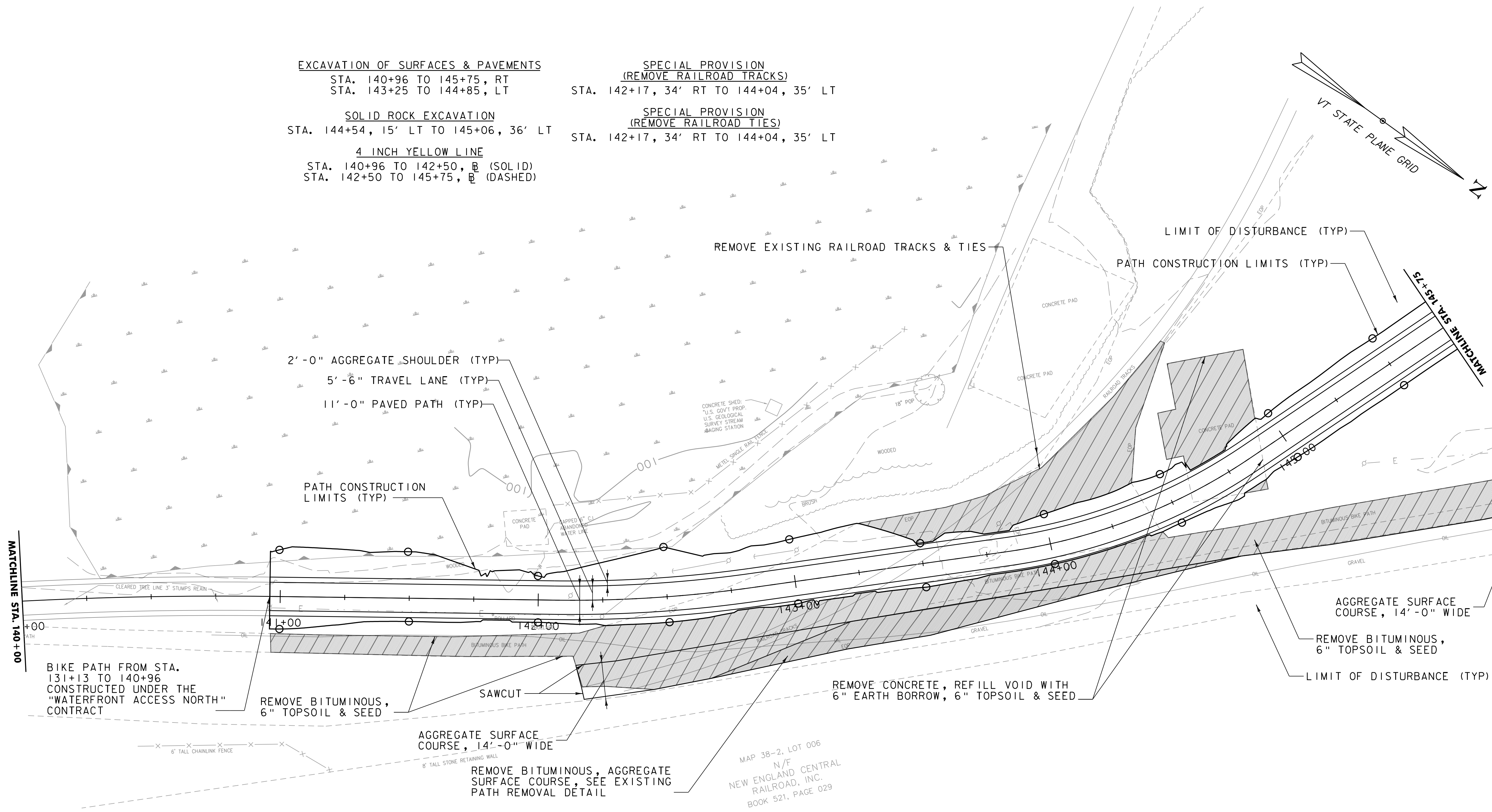
MAP 38-2, LOT 006  
N/F  
NEW ENGLAND CENTRAL  
RAILROAD, INC.  
BOOK 521, PAGE 029

SCALE 1" = 20'-0"  
20 0 20

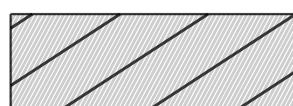


PROJECT NAME: BURLINGTON BIKE PATH	
PROJECT NUMBER: 57634.00	
FILE NAME: z57634bdr_nul.dgn	PLOT DATE: 3/23/2016
PROJECT LEADER: M.A. COLGAN	DRAWN BY: P.A. MILLER
DESIGNED BY: E.B. PARIZO	CHECKED BY: E.B. PARIZO
LAYOUT SHEET (2 OF 11)	SHEET 29 OF 119





- NOTES:
1. ALL IMPERVIOUS SURFACES WITHIN THE PROJECT LIMITS OF DISTURBANCE SHALL BE REMOVED PER SHEET 5 "BITUMINOUS/CONCRETE REMOVAL" TYPICAL SECTION
  2. EXISTING UTILITY POLES AT STA. 140+96 RT, STA. 142+13 LT AND STA. 142+25 RT TO BE REMOVED BY UTILITY COMPANY PRIOR TO CONSTRUCTION

 = REMOVE EXISTING CONCRETE/BITUMINOUS SURFACE

SCALE 1" = 20'-0"  
20 0 20



PROJECT NAME: BURLINGTON BIKE PATH	
PROJECT NUMBER: 57634.00	
FILE NAME: z57634bdr_nul.dgn	PLOT DATE: 3/23/2016
PROJECT LEADER: M.A. COLGAN	DRAWN BY: P.A. MILLER
DESIGNED BY: E.B. PARIZO	CHECKED BY: E.B. PARIZO
LAYOUT SHEET (3 OF 11)	SHEET 30 OF 119



**EXCAVATION OF SURFACES & PAVEMENTS**

STA. 145+75 TO 151+75, RT

**4 INCH YELLOW LINE**

STA. 145+75 TO 151+75 @ (DASHED)

**REMOVAL OF EXISTING FENCE**

STA. 147+55, RT TO 151+75

**CHAIN LINK FENCE, 4 FEET**

STA. 149+35, RT TO 151+75, RT

**GATE FOR CHAIN LINK FENCE, 4 FEET**

STA. 149+38, 146' RT

STA. 149+65, 44' RT

STA. 149+69, 50' RT

STA. 149+71, 40' RT

STA. 149+75, 46' RT

**REMOVING SIGNS**

STA. 147+70, 110' RT

STA. 147+70, 115' RT

STA. 147+88, 62' RT

**CLEARING AND GRUBBING**

STA. 147+38, RT TO 147+92, RT

STA. 147+57, LT TO 148+14, LT

GRANITE BOULDER PILE

WOODED

HIGH WATER OVERFLOW AREA

SEE PAUSE PLACE DETAIL  
SHEET 1 OF 2

PATH CONSTRUCTION LIMITS (TYP)

2'-0" AGGREGATE SHOULDERS (TYP)

5'-6" TRAVEL LANE (TYP)

11'-0" PAVED PATH (TYP)

VEGETATION CLEARING

EXISTING BURLINGTON DOG PARK

VEGETATION CLEARING

INSTALL NEW BLACK VINYL CHAIN LINK FENCE  
GATE (EACH SIDE), 4' WIDTH

K  
L  
J  
M

RELOCATED DOG PARK  
(350' X 120')

REMOVE EXISTING FENCE

INSTALL NEW BLACK  
VINYL CHAIN LINK FENCE  
GATE, 10' WIDTH

DOG PARK

AGGREGATE SURFACE  
COURSE, 14'-0" WIDE (TYP)

REMOVE BITUMINOUS, 6" TOPSOIL  
& SEED

REMOVE BITUMINOUS, AGGREGATE  
SURFACE COURSE, SEE EXISTING  
PATH REMOVAL DETAIL

**NOTE:**

- ALL IMPERVIOUS SURFACES WITHIN THE PROJECT LIMITS OF DISTURBANCE SHALL BE REMOVED PER SHEET 5 "BITUMINOUS/CONCRETE REMOVAL" TYPICAL SECTION

MAP 38-2, LOT 006

N/F

NEW ENGLAND CENTRAL

ROAD, INC.

BOOK 521, PAGE 029

SCALE 1" = 20'-0"

20 0 20

= REMOVE EXISTING CONCRETE/BITUMINOUS SURFACE



PROJECT NAME: BURLINGTON BIKE PATH

PROJECT NUMBER: 57634.00

FILE NAME: z57634bdr_nul.dgn

PROJECT LEADER: M.A. COLGAN

DESIGNED BY: E.B. PARIZO

LAYOUT SHEET (4 OF 11)

PLOT DATE: 3/23/2016

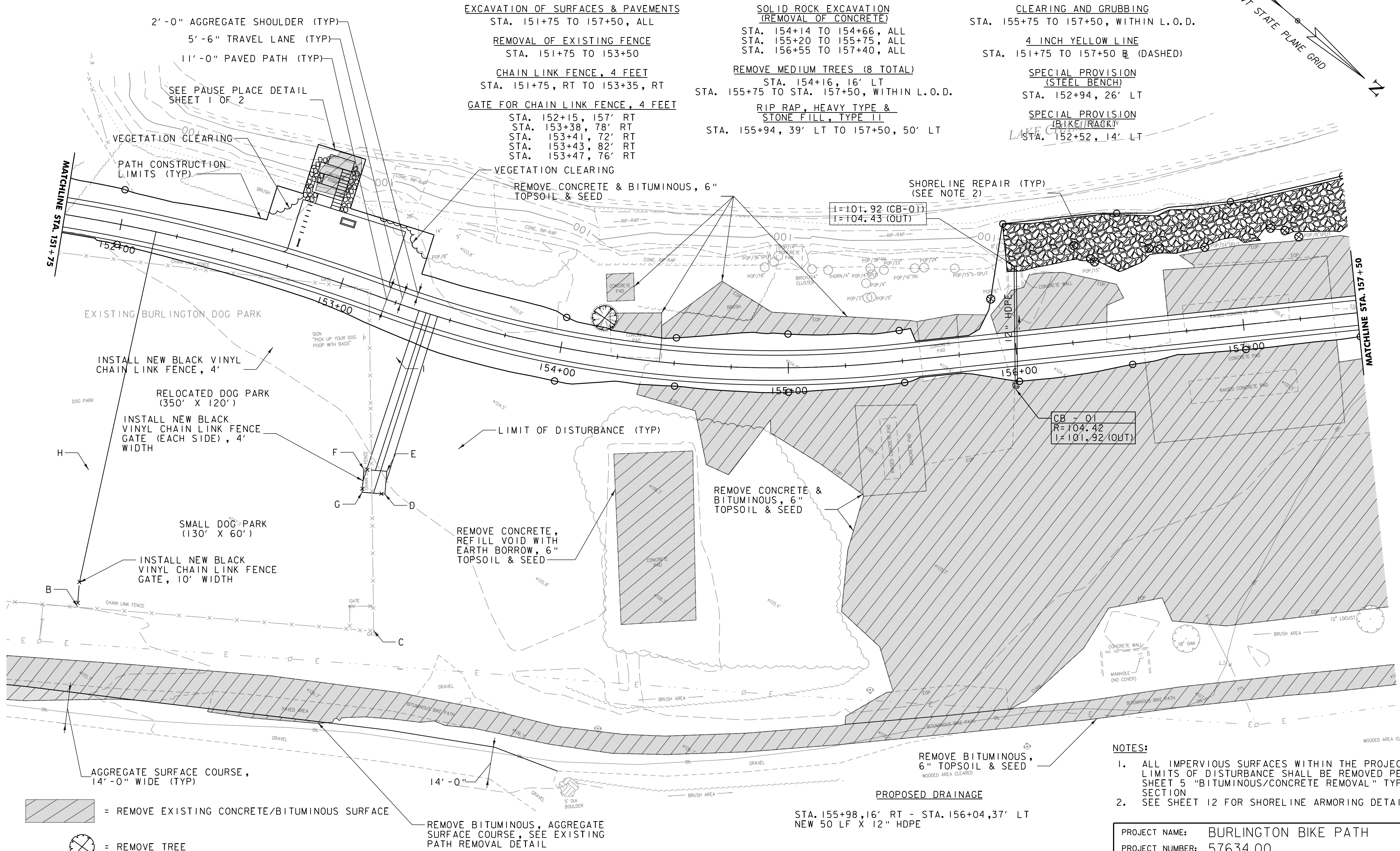
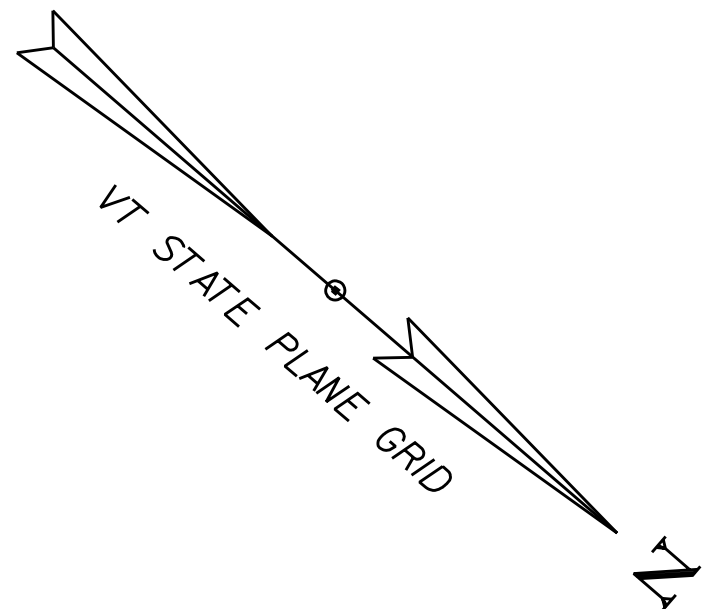
DRAWN BY: P.A. MILLER

CHECKED BY: E.B. PARIZO

SHEET 3 OF 11

VHB 57634.00



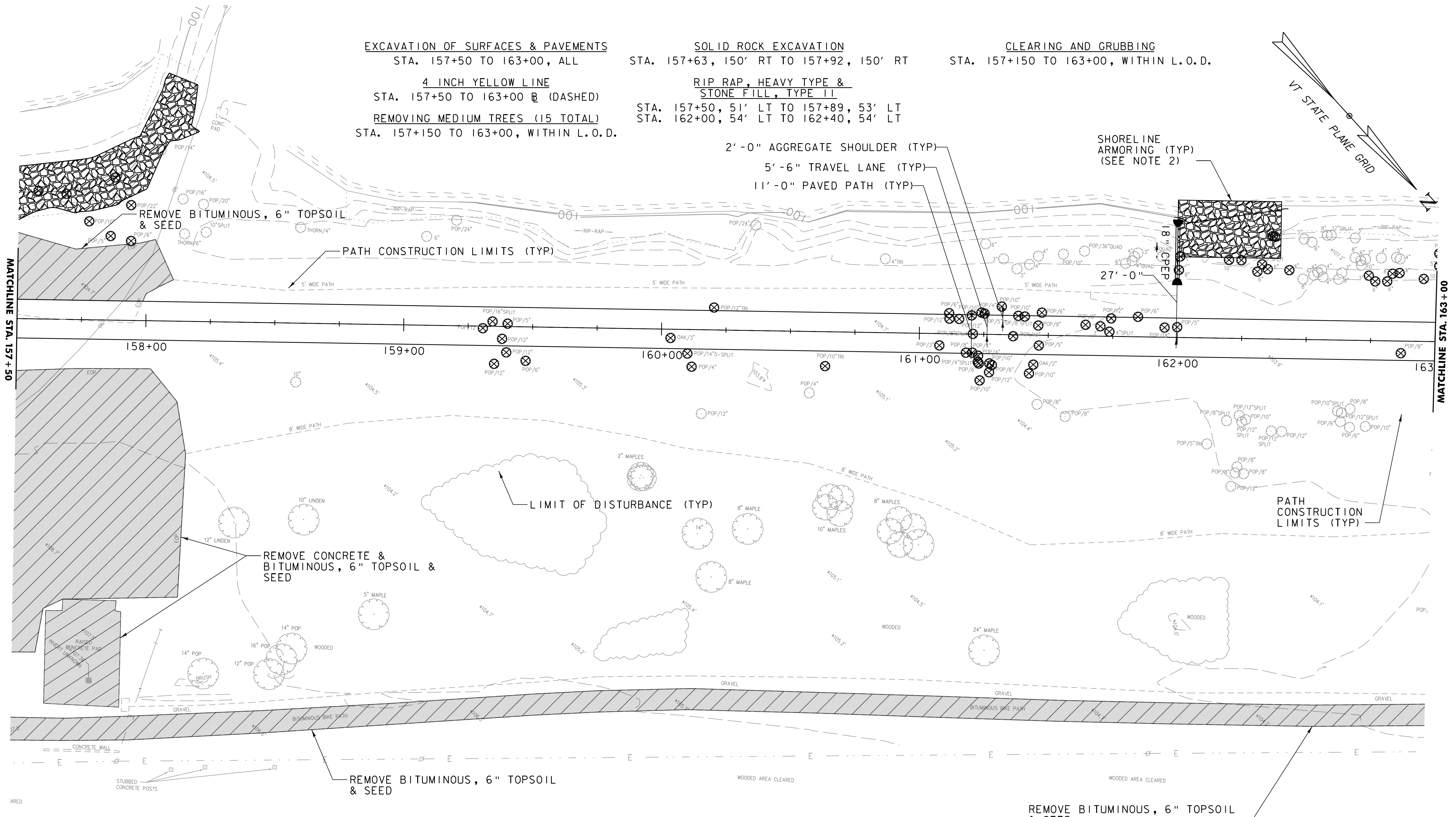


- NOTES:**
1. ALL IMPERVIOUS SURFACES WITHIN THE PROJECT LIMITS OF DISTURBANCE SHALL BE REMOVED PER SHEET 5 "BITUMINOUS/CONCRETE REMOVAL" TYPICAL SECTION
  2. SEE SHEET 12 FOR SHORELINE ARMORING DETAILS

PROJECT NAME: BURLINGTON BIKE PATH	
PROJECT NUMBER: 57634.00	
FILE NAME: z57634bdr_nul.dgn	PLOT DATE: 3/23/2016
PROJECT LEADER: M.A. COLGAN	DRAWN BY: P.A. MILLER
DESIGNED BY: E.B. PARIZO	CHECKED BY: E.B. PARIZO
LAYOUT SHEET (5 OF 11)	SHEET 32 OF 119







EXCAVATION OF SURFACES & PAVEMENTS  
STA. 157+50 TO 163+00, ALL

4 INCH YELLOW LINE  
STA. 157+50 TO 163+00 (DASHED)

REMOVING MEDIUM TREES (15 TOTAL)  
STA. 157+150 TO 163+00, WITHIN L.O.D.

SOLID ROCK EXCAVATION  
STA. 157+63, 150' RT TO 157+92, 150' RT

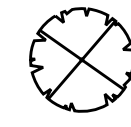
RIP RAP, HEAVY TYPE & STONE FILL, TYPE II  
STA. 157+50, 51' LT TO 157+89, 53' LT  
STA. 162+00, 54' LT TO 162+40, 54' LT

CLEARING AND GRUBBING  
STA. 157+150 TO 163+00, WITHIN L.O.D.

PROPOSED DRAINAGE  
STA. 162+00, LT. 23' - STA. 162+00, LT. 43'  
NEW 20 LF X 18" CPEP (SL)  
NEW 18" CPEPES AT INLET, +00, LT. 23'  
18" INV. AT INLET = 103.80  
NEW 18" CPEPES AT OUTLET, +00, LT. 43'  
18" INV. AT OUTLET = 103.40

- NOTES:
1. ALL IMPERVIOUS SURFACES WITHIN THE PROJECT LIMITS OF DISTURBANCE SHALL BE REMOVED PER SHEET 5 "BITUMINOUS/CONCRETE REMOVAL" TYPICAL SECTION
  2. SEE SHEET 12 FOR SHORELINE ARMORING DETAILS

 = REMOVE EXISTING CONCRETE/BITUMINOUS SURFACE

 = REMOVE TREE

SCALE 1" = 20'-0"

20 0 20



SPECIAL PROVISION  
(REMOVE EMERGENCY CALL BOX)  
STA. 166+11, 9' LT

RIP RAP, HEAVY TYPE &  
STONE FILL, TYPE II  
STA. 163+45, 59' LT TO 165+13, 166' LT

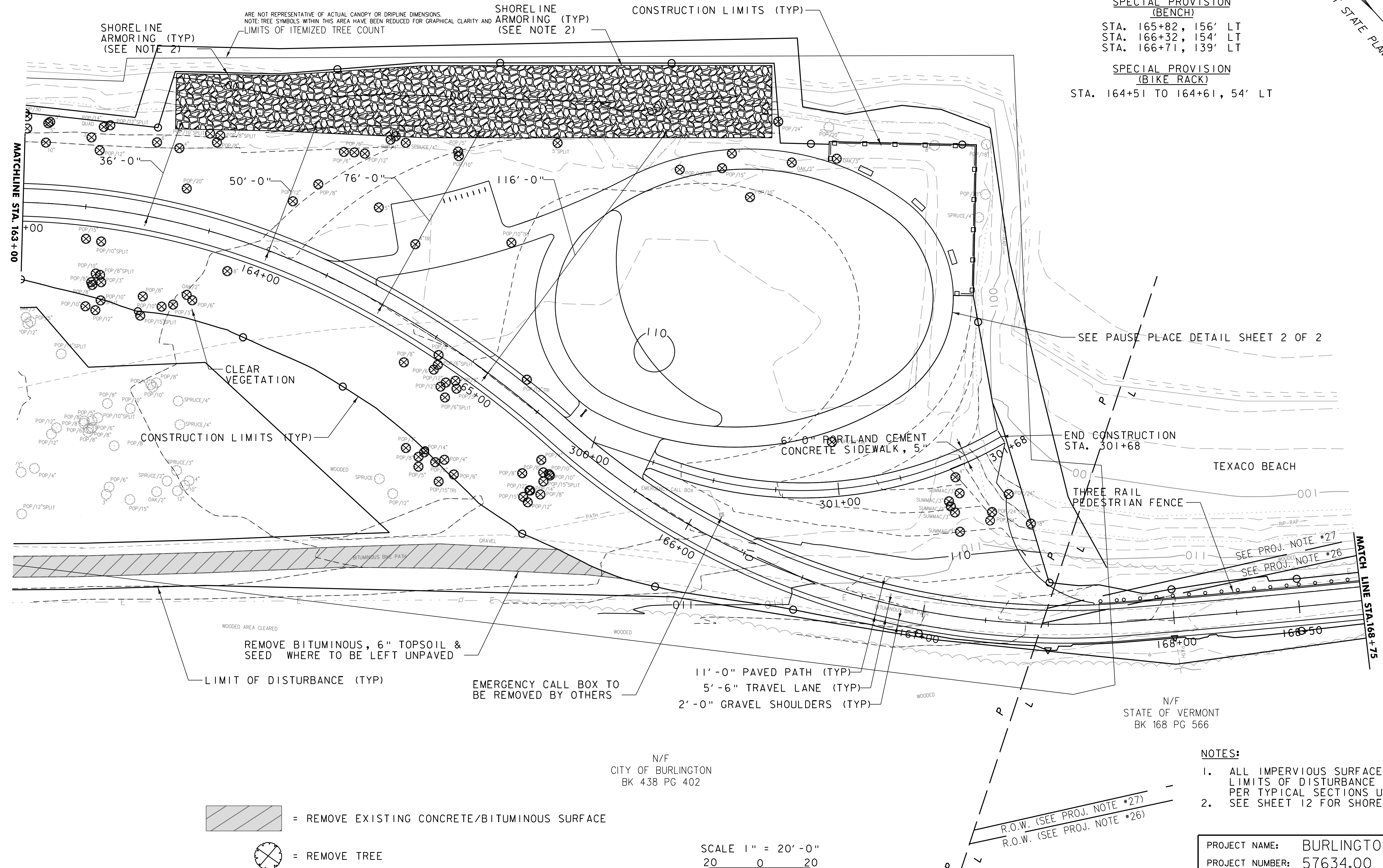
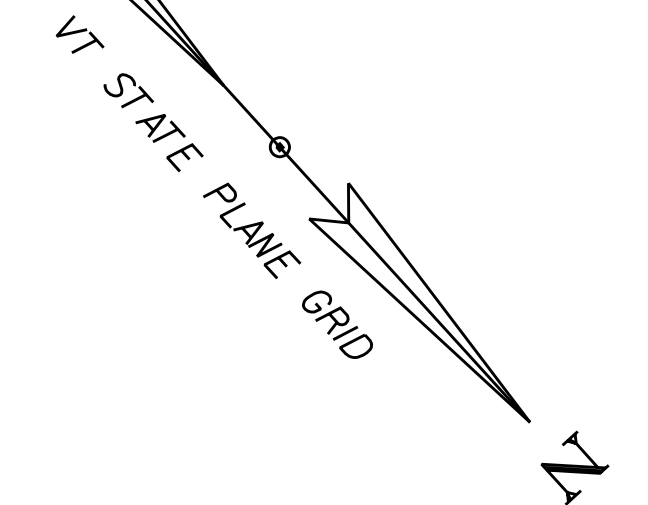
SPECIAL PROVISION  
(THREE RAIL PEDESTRIAN FENCE)  
STA. 167+70, 8' LT TO 168+75, 8' LT

SPECIAL PROVISION  
(BENCH)

STA. 165+82, 156' LT  
STA. 166+32, 154' LT  
STA. 166+71, 139' LT

SPECIAL PROVISION  
(BIKE RACK)

STA. 164+51 TO 164+61, 54' LT



NOTES:

1. ALL IMPERVIOUS SURFACES WITHIN THE PROJECT LIMITS OF DISTURBANCE SHALL BE REMOVED PER TYPICAL SECTIONS UNLESS OTHERWISE NOTED
2. SEE SHEET 12 FOR SHORELINE ARMORING DETAILS

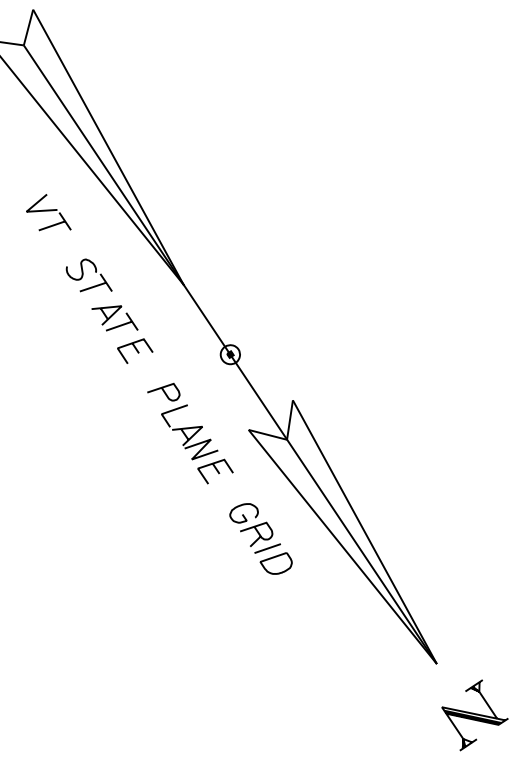
PROJECT NAME: BURLINGTON BIKE PATH

PROJECT NUMBER:	57634.00
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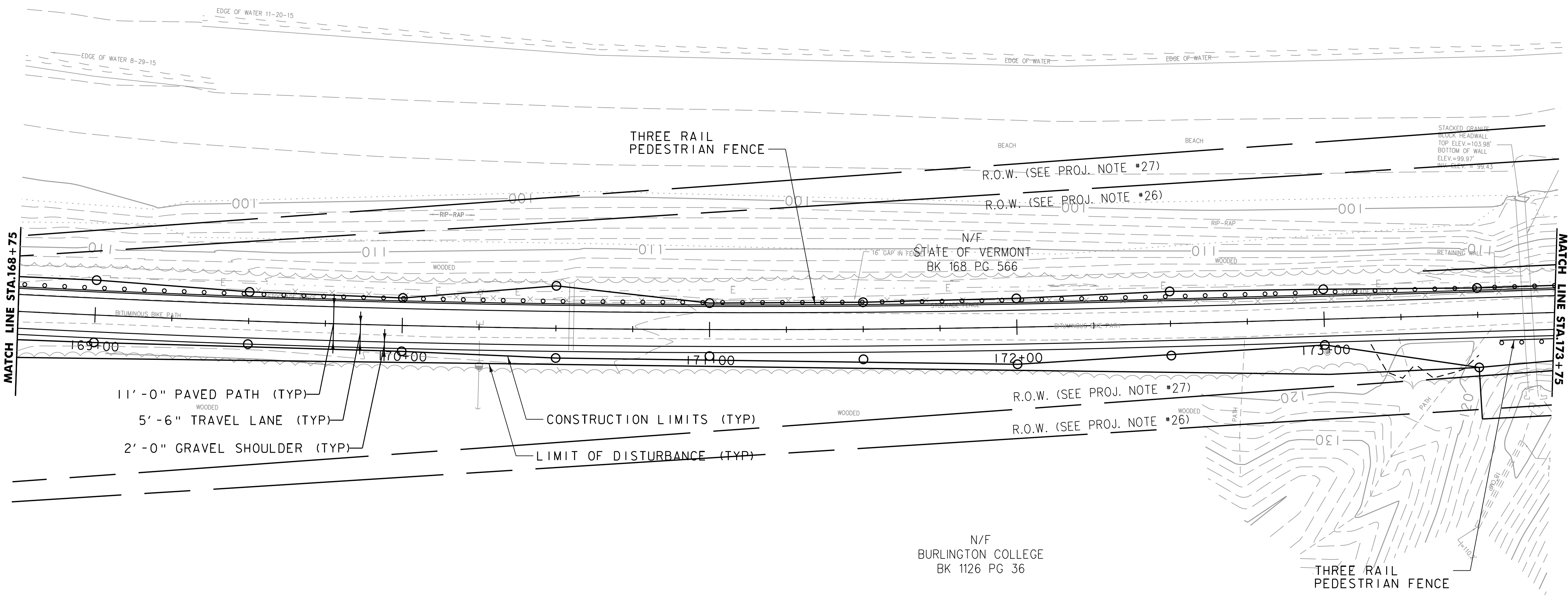
FILE NAME: z57634bdr_nul.dgn  
PROJECT LEADER: M.A. COLGAN  
DESIGNED BY: E.B. PARIZO  
LAYOUT SHEET (7 OF 11)

PLOT DATE: 3/23/2016  
DRAWN BY: P.A. MILLER  
CHECKED BY: E.B. PARIZO  
SHEET 34 OF 119





4 INCH YELLOW LINE  
STA. 168+75 TO 173+75 @ (DASHED)  
SPECIAL PROVISION  
(THREE RAIL PEDESTRIAN FENCE)  
STA. 168+75 TO 173+75, 8' LT  
STA. 173+56 TO 173+75, 8.5' RT  
REMOVAL OF EXISTING FENCE  
STA. 168+75 TO 173+75, LT



SCALE 1" = 20'-0"  
20 0 20



PROJECT NAME: BURLINGTON BIKE PATH  
PROJECT NUMBER: 57634.00

FILE NAME: z57634bdr_nul.dgn  
PROJECT LEADER: M.A. COLGAN  
DESIGNED BY: D.M. PECK  
LAYOUT SHEET (8 OF 11)

PLOT DATE: 3/23/2016  
DRAWN BY: M.F. SUFFEL  
CHECKED BY: E.B. PARIZO  
SHEET 35 OF 119



4 INCH YELLOW LINE  
STA. 173+75 TO 179+25 (DASHED)

REMOVAL OF EXISTING FENCE

STA. 173+75 TO 173+98, RT

STA. 173+75 TO 179+25, LT

STA. 176+37 TO 179+25, RT

SPECIAL PROVISION

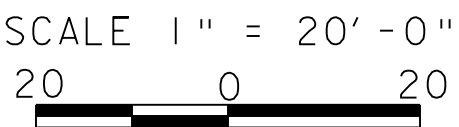
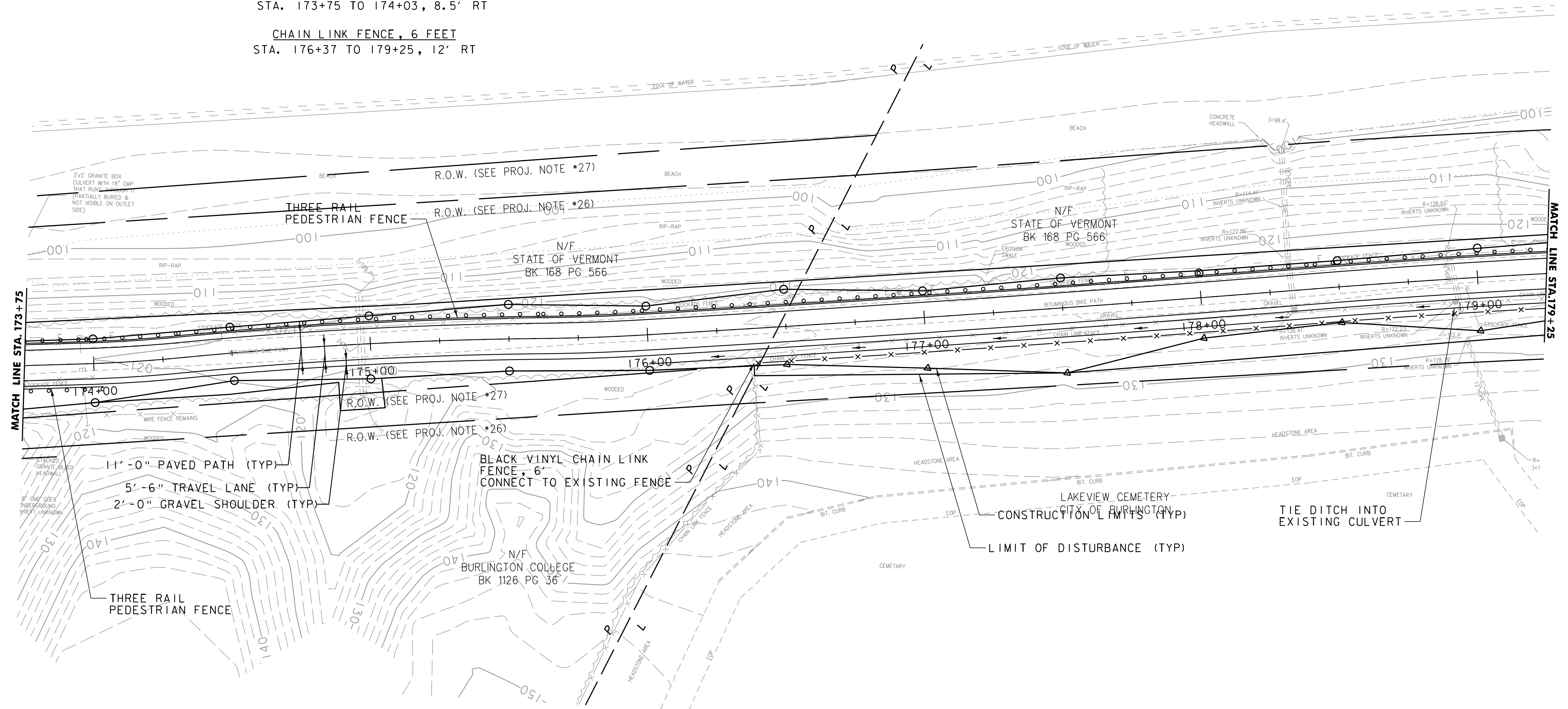
(THREE RAIL PEDESTRIAN FENCE)

STA. 173+75 TO 179+25, 8' LT

STA. 173+75 TO 174+03, 8.5' RT

CHAIN LINK FENCE, 6 FEET

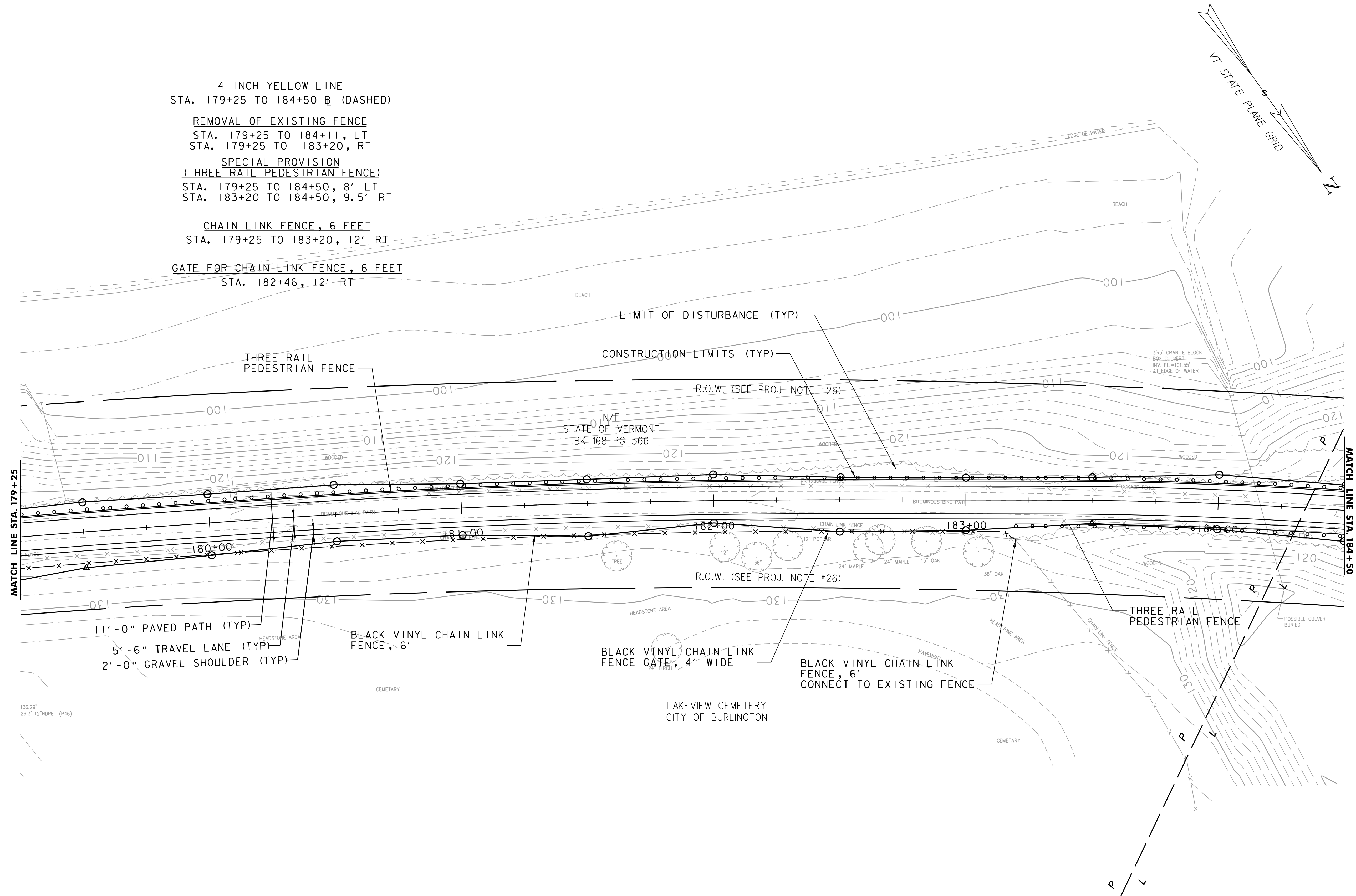
STA. 176+37 TO 179+25, 12' RT



PROJECT NAME: BURLINGTON BIKE PATH  
PROJECT NUMBER: 57634.00

FILE NAME: z57634bdr_nul.dgn	PLOT DATE: 3/23/2016
PROJECT LEADER: M.A. COLGAN	DRAWN BY: M.F. SUFFEL
DESIGNED BY: D.M. PECK	CHECKED BY: E.B. PARIZO
LAYOUT SHEET (9 OF 11)	SHEET 36 OF 119





SCALE 1" = 20'-0"  
20 0 20



PROJECT NAME: BURLINGTON BIKE PATH	
PROJECT NUMBER: PROJECT NUMBER	
FILE NAME: z57634bdr_nul.dgn	PLOT DATE: 3/23/2016
PROJECT LEADER: M.A.COLGAN	DRAWN BY: M.F.SUFFEL
DESIGNED BY: D.M.PECK	CHECKED BY: E.B. PARIZO
LAYOUT SHEET (10 OF 11)	SHEET 37 OF 119

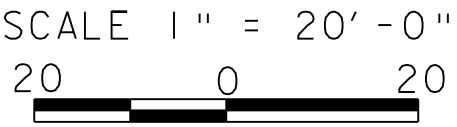
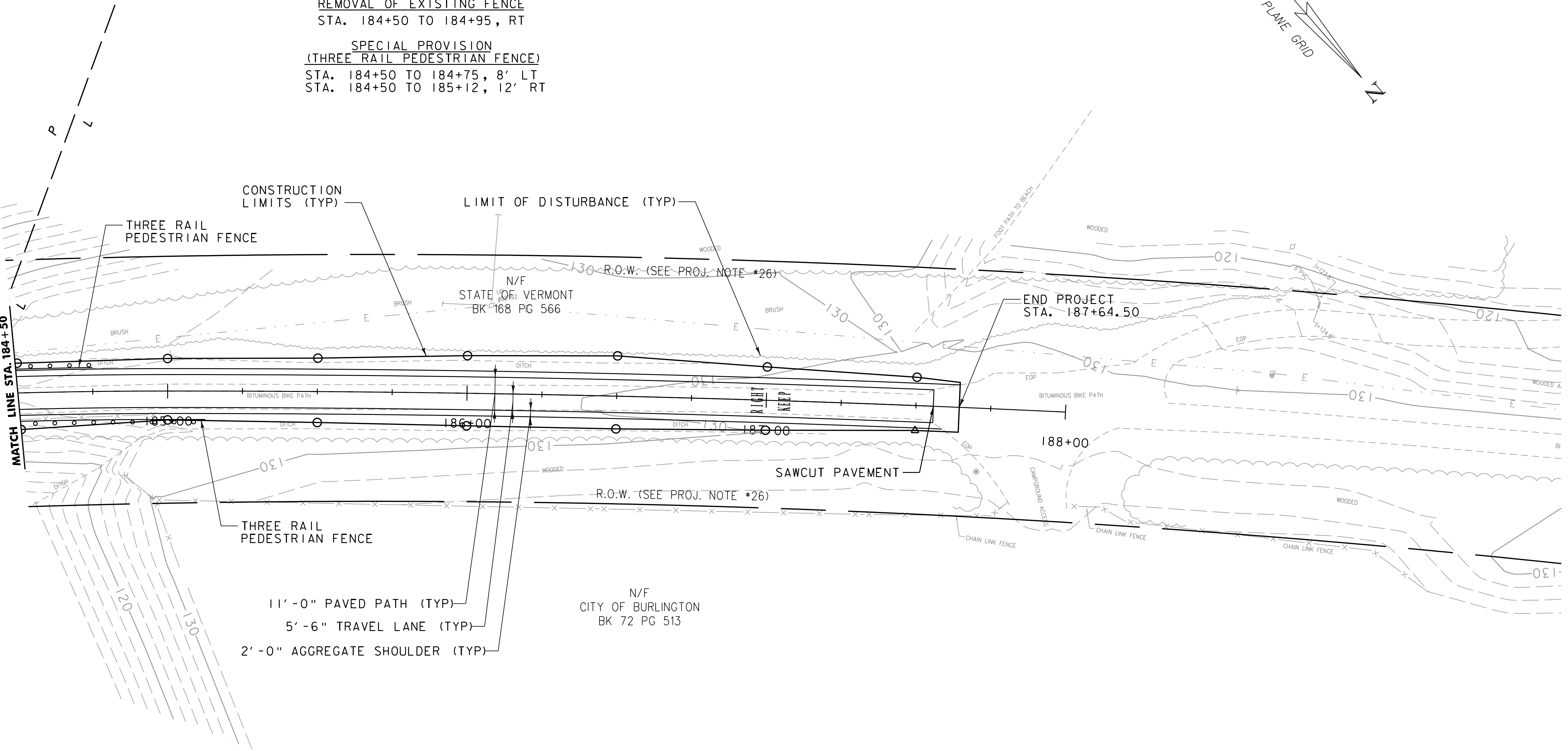
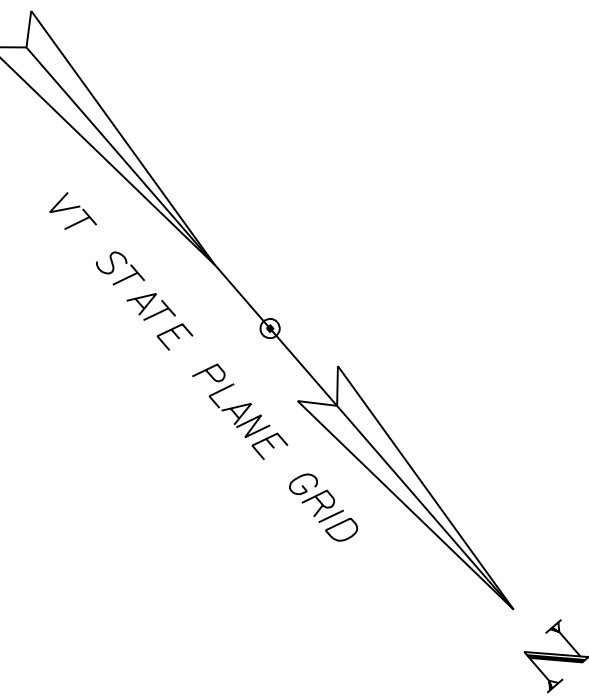


PAINT PAVEMENT MARKINGS ("KEEP RIGHT")  
STA. 186+95 TO 187+08, RT

4 INCH YELLOW LINE  
STA. 184+50 TO 186+08, RT (DASHED)  
STA. 186+08 TO 186+95, RT (SOLID)  
STA. 187+08 TO 187+65, RT (SOLID)

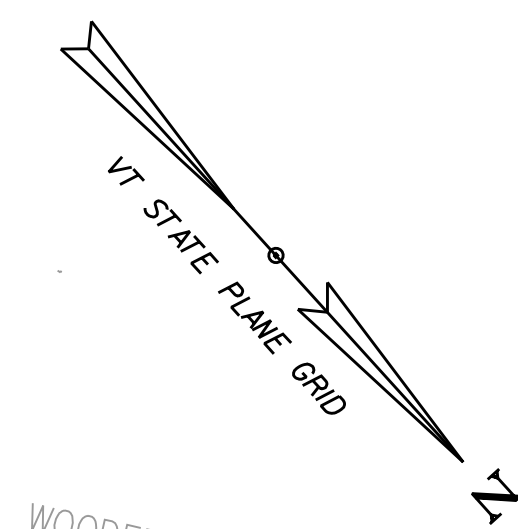
REMOVAL OF EXISTING FENCE  
STA. 184+50 TO 184+95, RT

SPECIAL PROVISION  
(THREE RAIL PEDESTRIAN FENCE)  
STA. 184+50 TO 184+75, 8' LT  
STA. 184+50 TO 185+12, 12' RT

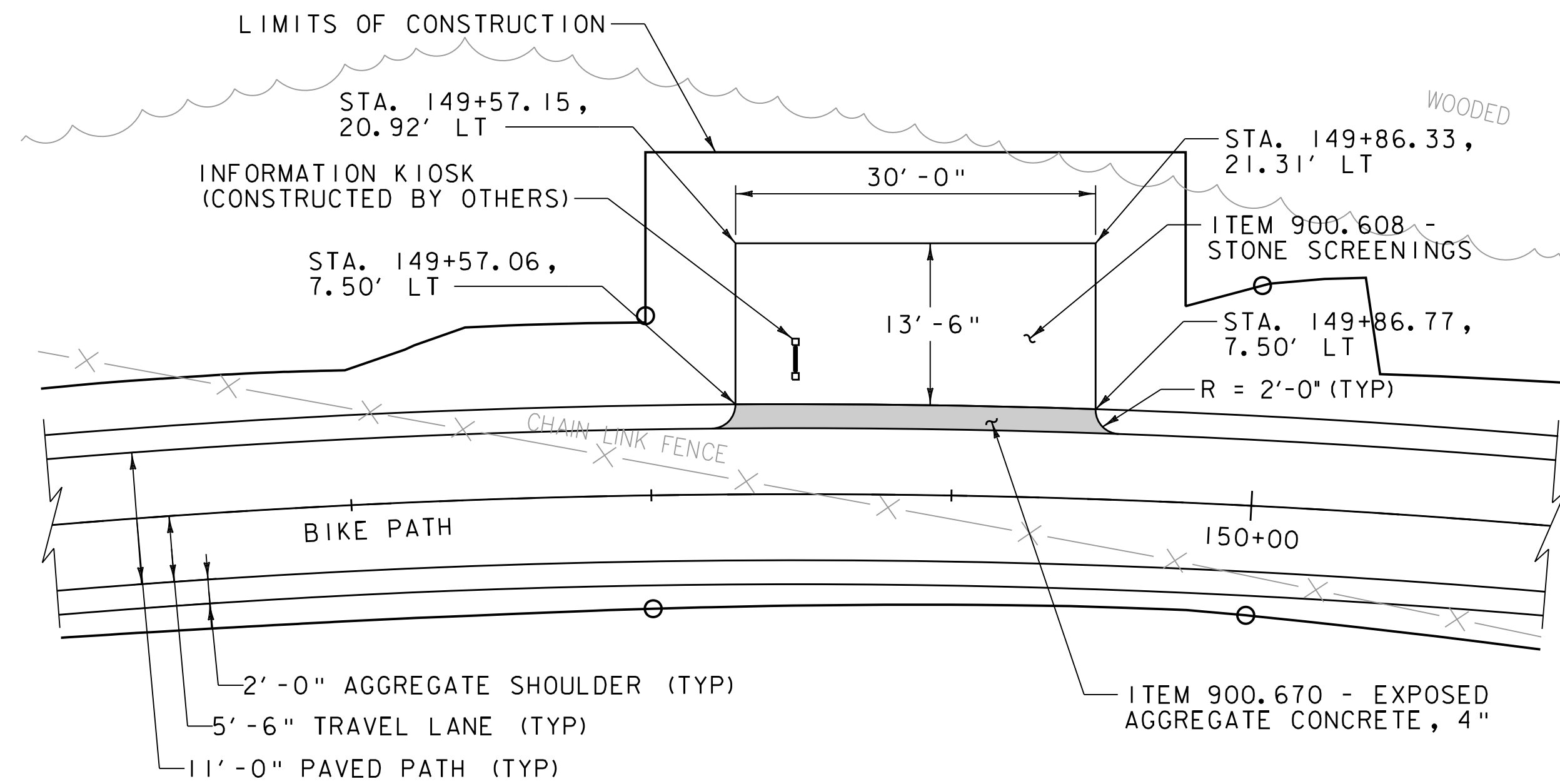


PROJECT NAME: BURLINGTON BIKE PATH	
PROJECT NUMBER: 57634.00	
FILE NAME: z57634bdr_nul.dgn	PLOT DATE: 3/23/2016
PROJECT LEADER: M.A.COLGAN	DRAWN BY: M.F.SUFFEL
DESIGNED BY: D.M.PECK	CHECKED BY: E.B. PARIZO
LAYOUT SHEET (11 OF 11)	SHEET 38 OF 119

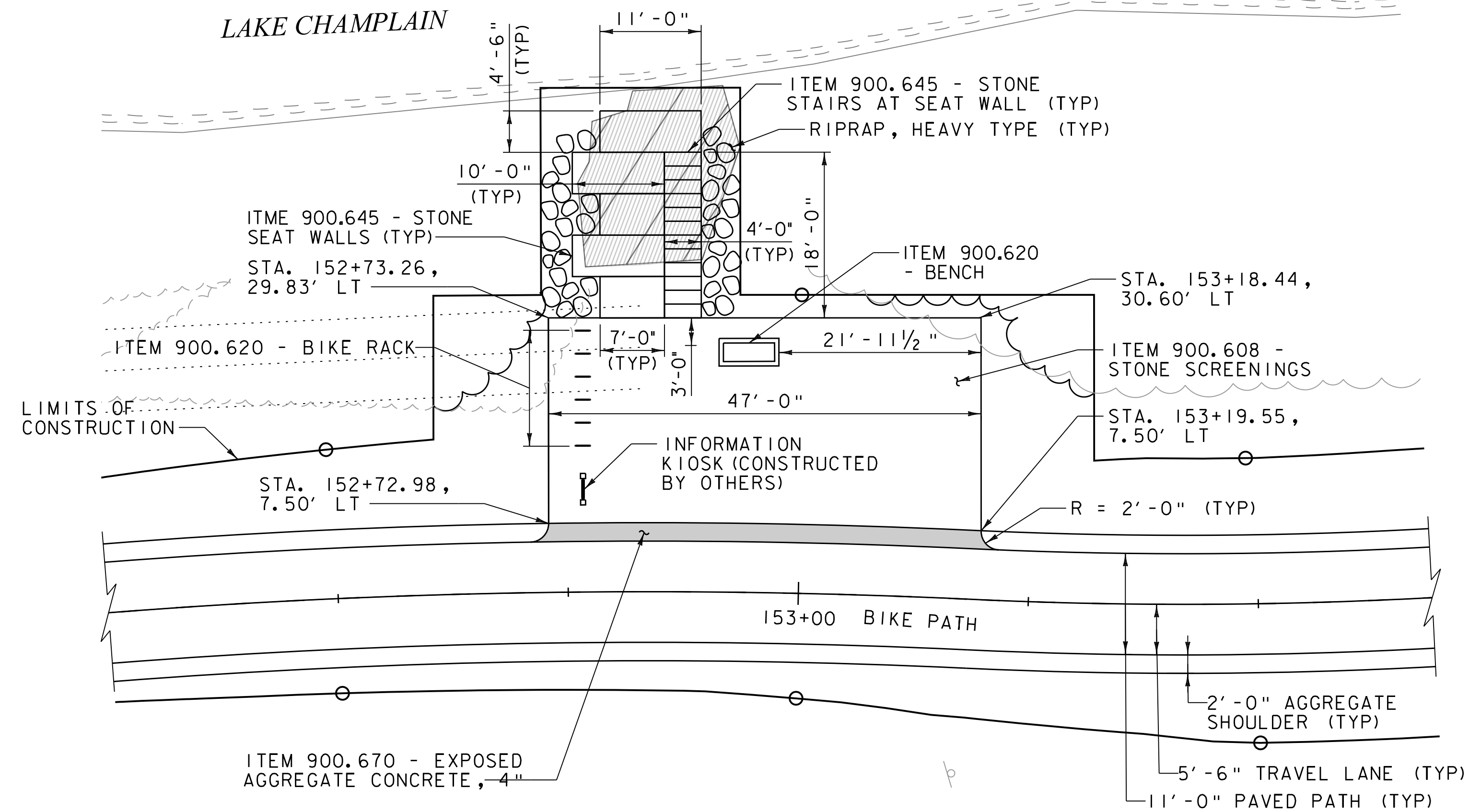
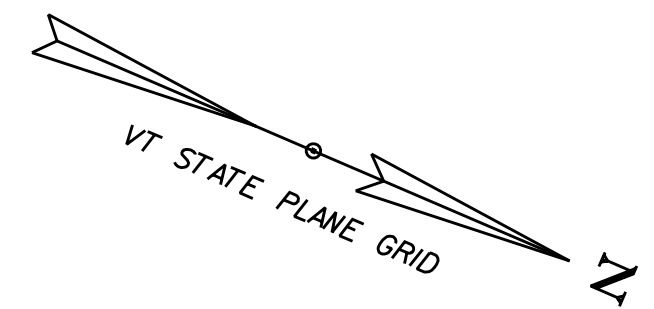




WOODED



PAUSE PLACE LOCATION 1  
SCALE 1" = 10'-0"



PAUSE PLACE LOCATION 2  
SCALE 1" = 10'-0"

NOTE:  
1. SEE DETAIL SHEETS (1 OF 6), (3 OF 6), AND (4 OF 6) FOR MORE INFORMATION.

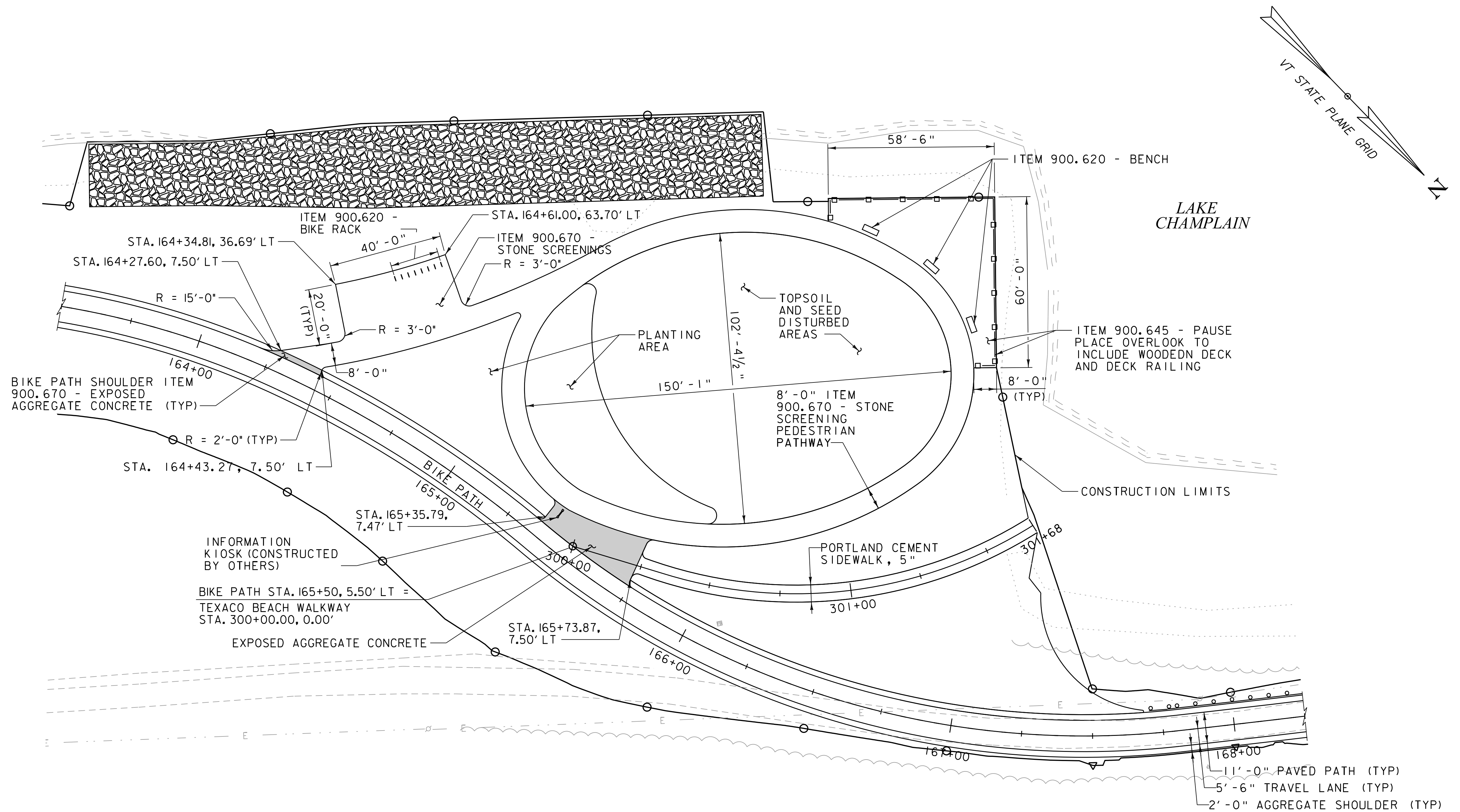
PROJECT NAME: BURLINGTON BIKE PATH  
PROJECT NUMBER: 57634.00

FILE NAME: z57634pauseplace.dgn  
PROJECT LEADER: M.A. COLGAN  
DESIGNED BY: SASAKI  
PAUSE PLACE DETAILS (1 OF 2)

PLOT DATE: 3/23/2016  
DRAWN BY: E.F. LAWES  
CHECKED BY: E.B. PARIZO  
SHEET 39 OF 119







PROJECT NAME: BURLINGTON BIKE PATH  
PROJECT NUMBER: 57634.00

FILE NAME: z57634pauseplace.dgn  
PROJECT LEADER: M.A. COLGAN  
DESIGNED BY: SASAKI  
PAUSE PLACE DETAILS (2 OF 2)

PLOT DATE: 3/23/2016  
DRAWN BY: E.F. LAWES  
CHECKED BY: E.B. PARIZO  
SHEET 40 OF 119



Plan view diagram showing the layout of the proposed gravel road and bike path. The diagram is divided into two main sections by a vertical line. The left section is labeled "EXISTING BIKE PATH" and "WIDTH VARIES". The right section is labeled "GRAVEL ROAD" and "14' - 0\"". A dashed line represents the "1\" TO 2\" AGGREGATE SURFACE COURSE (MATCH EXISTING)". A solid line with cross-hatching represents the "SAWCUT" and "2\" AGGREGATE SURFACE COURSE". The sawcut is shown as a vertical line intersecting the aggregate surface course. The label "MATCH EXISTING" points to the right end of the aggregate surface course.

NOTE: SECTION DETAIL TO BE APPLIED WITHIN LIMITS SHOWN  
AND AS SPECIFIED ONSITE BY RESIDENT ENGINEER



- SCALE 1" = 20'-0"

1. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR AND RESIDENT ENGINEER WILL CONDUCT A JOINT INSPECTION OF THE EXISTING BIKE PATH AND ACCESS ROAD THROUGH THE URBAN RESERVE. THE PURPOSE OF THE INSPECTION WILL BE TO IDENTIFY FINAL TEMPORARY REPAIR AREAS WHICH THE CONTRACTOR WILL MARK OUT WITH DURABLE PAINT MARKINGS ON THE GROUND. COSTS FOR INSPECTION, PAINT MARKINGS, AND IDENTIFICATION OF FINAL REPAIR AREAS SHALL BE INCLUDED UNDER ITEM 635.11, MOBILIZATION/DEMobilIZATION.

FILE NAME: z57634bdr_nul_temp_path.dgn	PLOT DATE: 3/23/2016
PROJECT LEADER: M.A. COLGAN	DRAWN BY: P.A. MILLER
DESIGNED BY: P.A. MILLER	CHECKED BY: E.B. PARIZO
TEMPORARY URBAN RESERVE WORK (1 OF 3)	SHEET 41 OF 119



**EXCAVATION OF SURFACES & PAVEMENTS**  
STA. 148+47 TO 151+75, RT

VT STATE PLANE GRID

PROPOSED BIKE PATH ALIGNMENT

MATCHLINE STA. 145+75

146+00 147+00 148+00 149+00 150+00 151+00

MATCHLINE STA. 151+75

BRUSH AREA

DOG PARK

GRANITE BOULDER PILE

WOODED

CHAIN LINK FENCE

SIGN "THICK UP YOUR DOG POOP WITH BAGS"

SIGN "DOG PARK RULES"

SIGN "DOG PARK INFO"

PILE OF UTILITY POLES

BRUSH AREA

BITUMINOUS BIKE PATH

GRAVEL

SAWCUT (TYP)

14'-0"

14'-0"

**KEY**

- WORK TO INCLUDE: PLACEMENT OF 1" TO 2" AGGREGATE SURFACE COURSE TO MATCH EXISTING GRADE
- WORK TO INCLUDE: SAWCUT, REMOVAL OF EXISTING PAVEMENT, PLACEMENT OF 2" AGGREGATE SURFACE COURSE TO MATCH EXISTING GRADE

SCALE 1" = 20'-0"

20 0 20

**NOTE:**

1. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR AND RESIDENT ENGINEER WILL CONDUCT A JOINT INSPECTION OF THE EXISTING BIKE PATH AND ACCESS ROAD THROUGH THE URBAN RESERVE. THE PURPOSE OF THE INSPECTION WILL BE TO IDENTIFY FINAL TEMPORARY REPAIR AREAS WHICH THE CONTRACTOR WILL MARK OUT WITH DURABLE PAINT MARKINGS ON THE GROUND. COSTS FOR INSPECTION, PAINT MARKINGS, AND IDENTIFICATION OF FINAL REPAIR AREAS SHALL BE INCLUDED UNDER ITEM 635.11, MOBILIZATION/DEMOBILIZATION.

PROJECT NAME: BURLINGTON BIKE PATH	
PROJECT NUMBER: 57634.00	
FILE NAME: z57634bdr_nul.temp.path.dgn	PLOT DATE: 3/23/2016
PROJECT LEADER: M.A. COLGAN	DRAWN BY: P.A. MILLER
DESIGNED BY: P.A. MILLER	CHECKED BY: E.B. PARIZO
TEMPORARY URBAN RESERVE WORK (2 OF 3) SHEET 42 OF 119	

**vhb**

1. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR AND RESIDENT ENGINEER WILL CONDUCT A JOINT INSPECTION OF THE EXISTING BIKE PATH AND ACCESS ROAD THROUGH THE URBAN RESERVE. THE PURPOSE OF THE INSPECTION WILL BE TO IDENTIFY FINAL TEMPORARY REPAIR AREAS WHICH THE CONTRACTOR WILL MARK OUT WITH DURABLE PAINT MARKINGS ON THE GROUND. COSTS FOR INSPECTION, PAINT MARKINGS, AND IDENTIFICATION OF FINAL REPAIR AREAS SHALL BE INCLUDED UNDER ITEM 635.11, MOBILIZATION/DEMOBILIZATION.

FILE NAME: z57634bdr_nul_temp_path.dgn	PLOT DATE: 3/23/2016
PROJECT LEADER: M.A. COLGAN	DRAWN BY: P.A. MILLER
DESIGNED BY: P.A. MILLER	CHECKED BY: E.B. PARIZO
TEMPORARY URBAN RESERVE WORK (2 OF 3)	SHEET 42 OF 119

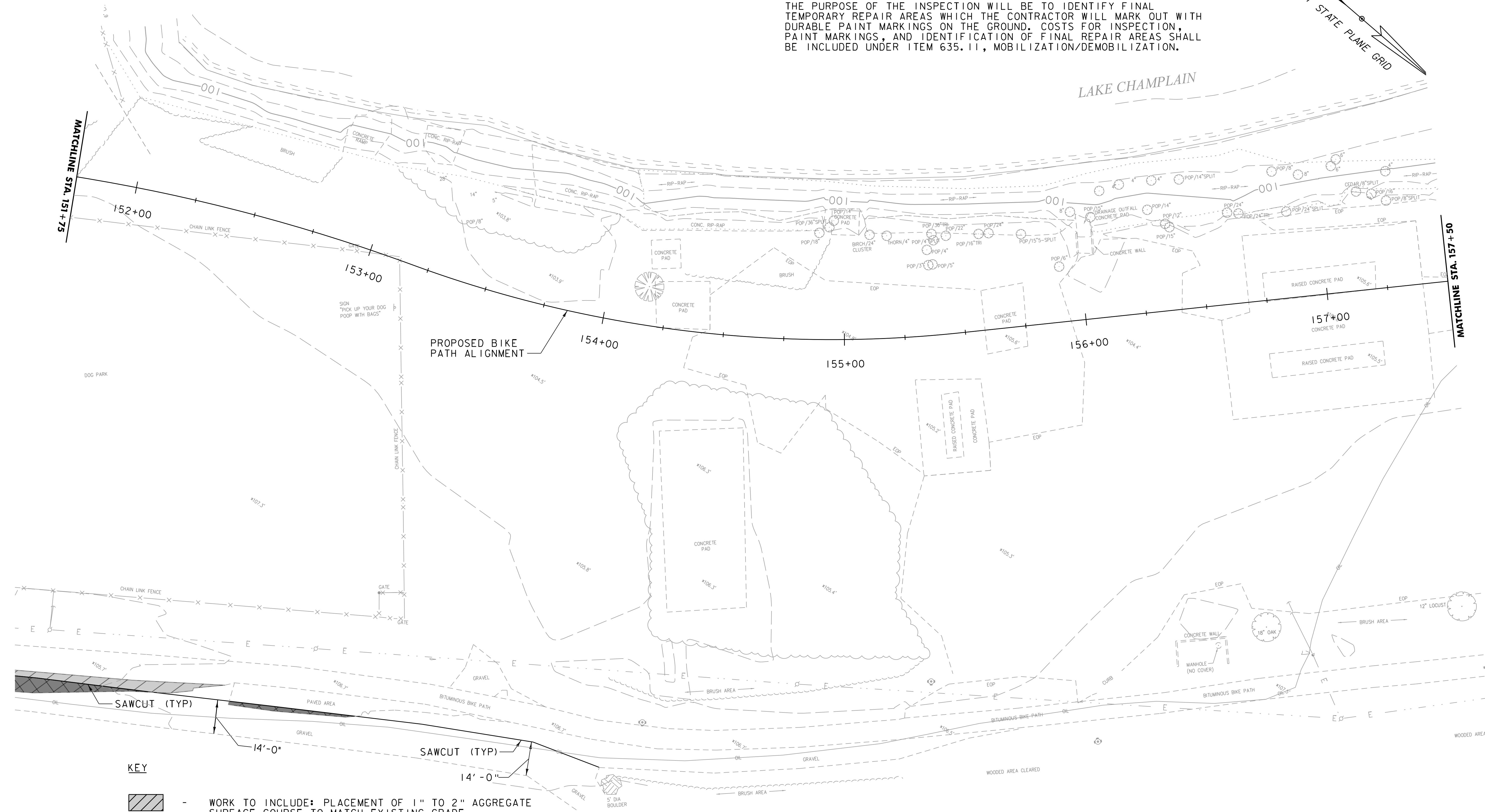
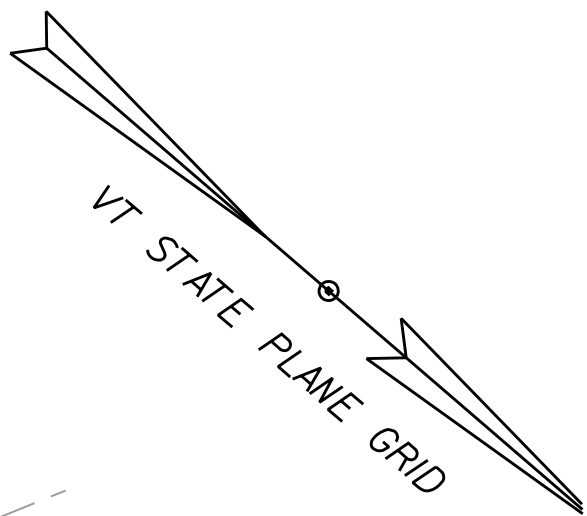


EXCAVATION OF SURFACES & PAVEMENTS

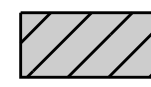
STA. 151+75 TO STA. 152+61  
STA. 153+04 TO STA. 153+50

NOTE:

1. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR AND RESIDENT ENGINEER WILL CONDUCT A JOINT INSPECTION OF THE EXISTING BIKE PATH AND ACCESS ROAD THROUGH THE URBAN RESERVE. THE PURPOSE OF THE INSPECTION WILL BE TO IDENTIFY FINAL TEMPORARY REPAIR AREAS WHICH THE CONTRACTOR WILL MARK OUT WITH DURABLE PAINT MARKINGS ON THE GROUND. COSTS FOR INSPECTION, PAINT MARKINGS, AND IDENTIFICATION OF FINAL REPAIR AREAS SHALL BE INCLUDED UNDER ITEM 635.11, MOBILIZATION/DEMOLITION.



KEY

-  - WORK TO INCLUDE: PLACEMENT OF 1" TO 2" AGGREGATE SURFACE COURSE TO MATCH EXISTING GRADE
-  - WORK TO INCLUDE: SAWCUT, REMOVAL OF EXISTING PAVEMENT, PLACEMENT OF 2" AGGREGATE SURFACE COURSE TO MATCH EXISTING GRADE

SCALE 1" = 20'-0"  
20 0 20

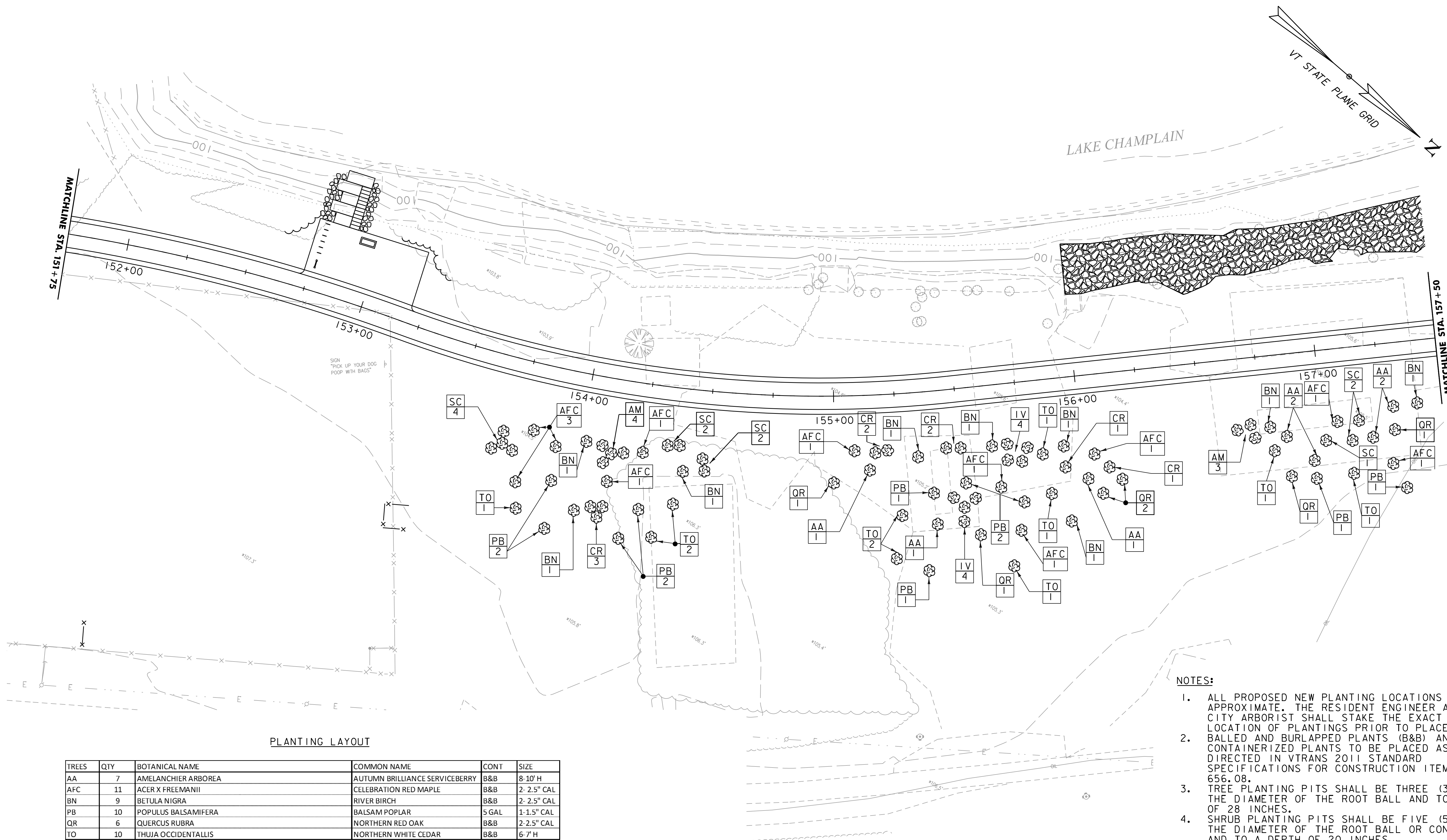


PROJECT NAME: BURLINGTON BIKE PATH

PROJECT NUMBER: 57634.00

FILE NAME: z57634bdr_nul_temp.path.dgn PLOT DATE: 3/23/2016  
PROJECT LEADER: M.A. COLGAN DRAWN BY: P.A. MILLER  
DESIGNED BY: P.A. MILLER CHECKED BY: E.B. PARIZO  
TEMPORARY URBAN RESERVE WORK (3 OF 3) SHEET 43 OF 119





PLANTING LAYOUT

TREES	QTY	BOTANICAL NAME	COMMON NAME	CONT	SIZE
AA	7	AMELANCHIER ARBOREA	AUTUMN BRILLIANCE SERVICEBERRY	B&B	8-10' H
AFC	11	ACER X FREEMANII	CELEBRATION RED MAPLE	B&B	2-2.5" CAL
BN	9	BETULA NIGRA	RIVER BIRCH	B&B	2-2.5" CAL
PB	10	POPULUS BALSAMIFERA	BALSAM POPLAR	5 GAL	1-1.5" CAL
QR	6	QUERCUS RUBRA	NORTHERN RED OAK	B&B	2-2.5" CAL
TO	10	THUJA OCCIDENTALIS	NORTHERN WHITE CEDAR	B&B	6-7' H

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	CONT	SPACING
AM	7	ARONIA MELANOCRPA	BLACK CHOKEBERRY	3 GAL	5-6' O.C.
CR	9	CORNUS RACEMOSA	GRAY DOGWOOD	3 GAL	5-6' O.C.
IV	8	ILEX VERTICILLATA	WINTERBERRY	3 GAL	5-6' O.C.
SC	11	SAMBUCUS CANADENSIS	AMERICAN ELDERBERRY	3 GAL	5' O.C.

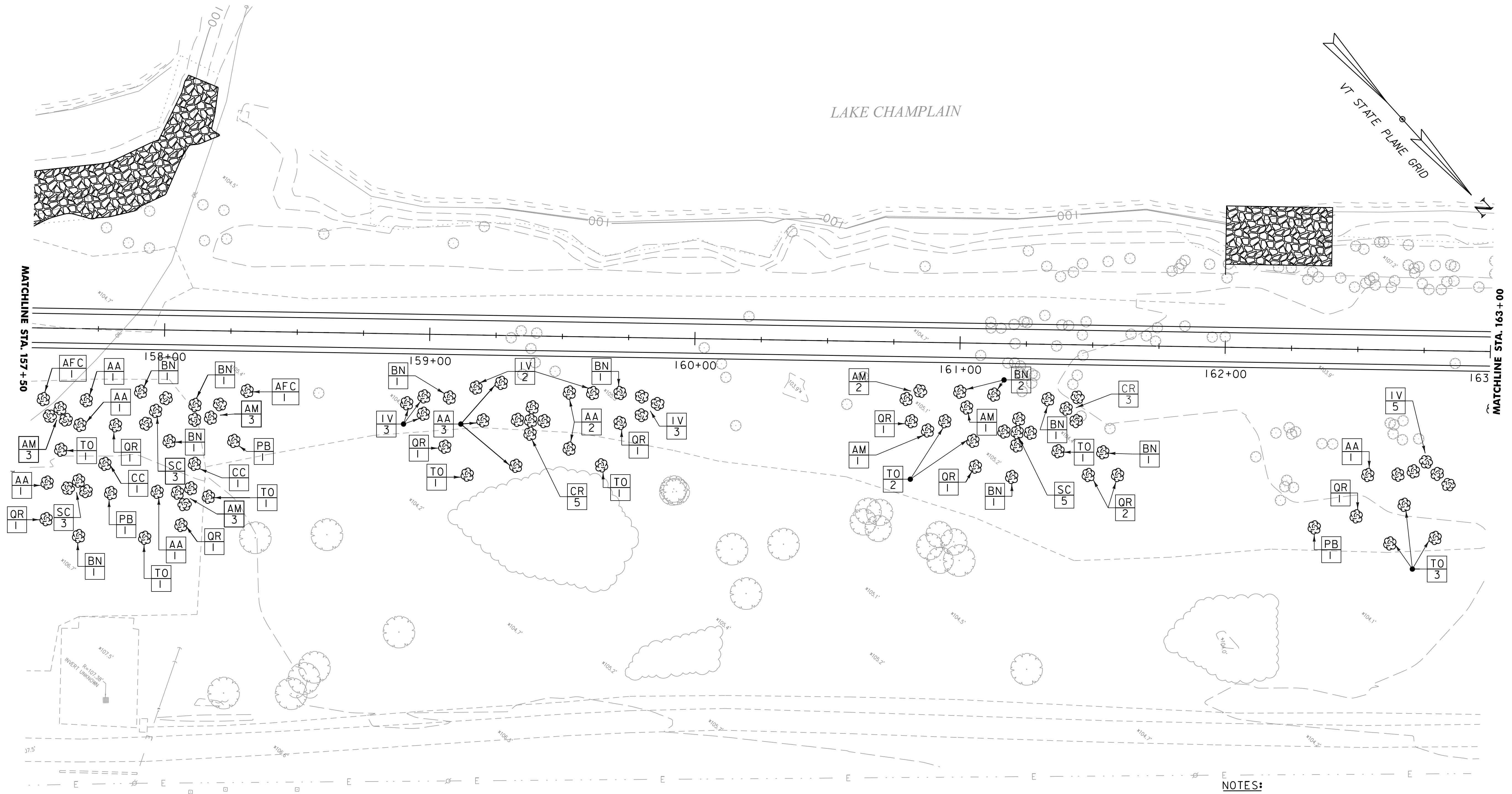
- NOTES:
1. ALL PROPOSED NEW PLANTING LOCATIONS ARE APPROXIMATE. THE RESIDENT ENGINEER AND CITY ARBORIST SHALL STAKE THE EXACT LOCATION OF PLANTINGS PRIOR TO PLACEMENT.
  2. BALLED AND BURLAPPED PLANTS (B&B) AND CONTAINERIZED PLANTS TO BE PLACED AS DIRECTED IN VTRANS 2011 STANDARD SPECIFICATIONS FOR CONSTRUCTION ITEM NUMBER 656.08.
  3. TREE PLANTING PITS SHALL BE THREE (3) TIMES THE DIAMETER OF THE ROOT BALL AND TO A DEPTH OF 28 INCHES.
  4. SHRUB PLANTING PITS SHALL BE FIVE (5) TIMES THE DIAMETER OF THE ROOT BALL OR CONTAINER AND TO A DEPTH OF 20 INCHES.

SCALE 1" = 20'-0"  
20 0 20



PROJECT NAME:	BURLINGTON BIKE PATH
PROJECT NUMBER:	57634.00
FILE NAME:	z57634bdr_landscape.dgn
PROJECT LEADER:	M.A. COLGAN
DESIGNED BY:	P.A. MILLER
LANDSCAPE PLAN (1 OF 3)	
PLOT DATE:	3/23/2016
DRAWN BY:	P.A. MILLER
CHECKED BY:	E.B. PARIZO
SHEET	44 OF 119





PLANTING LAYOUT

TREES	QTY	BOTANICAL NAME	COMMON NAME	CONT	SIZE
AA	10	AMELANCHIER ARBOREA	AUTUMN BRILLIANCE SERVICEBERRY	B&B	8-10' H
AFC	2	ACER X FREEMANII	CELEBRATION RED MAPLE	B&B	2- 2.5" CAL
BN	11	BETULA NIGRA	RIVER BIRCH	B&B	2- 2.5" CAL
CC	2	CAPRINUS CAOLINIANA	AMERICAN HORNBEAM	B&B	2- 2.5" CAL
PB	3	POPULUS BALSAMIFERA	BALSAM POPLAR	5 GAL	1-1.5" CAL
QR	10	QUERCUS RUBRA	NORTHERN RED OAK	B&B	2- 2.5" CAL
TO	11	THUJA OCCIDENTALLIS	NORTHERN WHITE CEDAR	B&B	6-7' H

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	CONT	SPACING
AM	13	ARONIA MELANOCRPA	BLACK CHOKEBERRY	3 GAL	5-6' O.C.
CR	8	CORNUS RACEMOSA	GRAY DOGWOOD	3 GAL	5-6' O.C.
IV	13	ILEX VERTICILLATA	WINTERBERRY	3 GAL	5-6' O.C.
SC	11	SAMBUCUS CANADENSIS	AMERICAN ELDERBERRY	3 GAL	5' O.C.

- NOTES:
- ALL PROPOSED NEW PLANTING LOCATIONS ARE APPROXIMATE. THE RESIDENT ENGINEER AND CITY ARBORIST SHALL STAKE THE EXACT LOCATION OF PLANTINGS PRIOR TO PLACEMENT.
  - BALLED AND BURLAPPED PLANTS (B&B) AND CONTAINERIZED PLANTS TO BE PLACED AS DIRECTED IN VTRANS 2011 STANDARD SPECIFICATIONS FOR CONSTRUCTION ITEM NUMBER 656.08.
  - TREE PLANTING PITS SHALL BE THREE (3) TIMES THE DIAMETER OF THE ROOT BALL AND TO A DEPTH OF 28 INCHES.
  - SHRUB PLANTING PITS SHALL BE FIVE (5) TIMES THE DIAMETER OF THE ROOT BALL OR CONTAINER AND TO A DEPTH OF 20 INCHES.

SCALE 1" = 20'-0"  
20 0 20

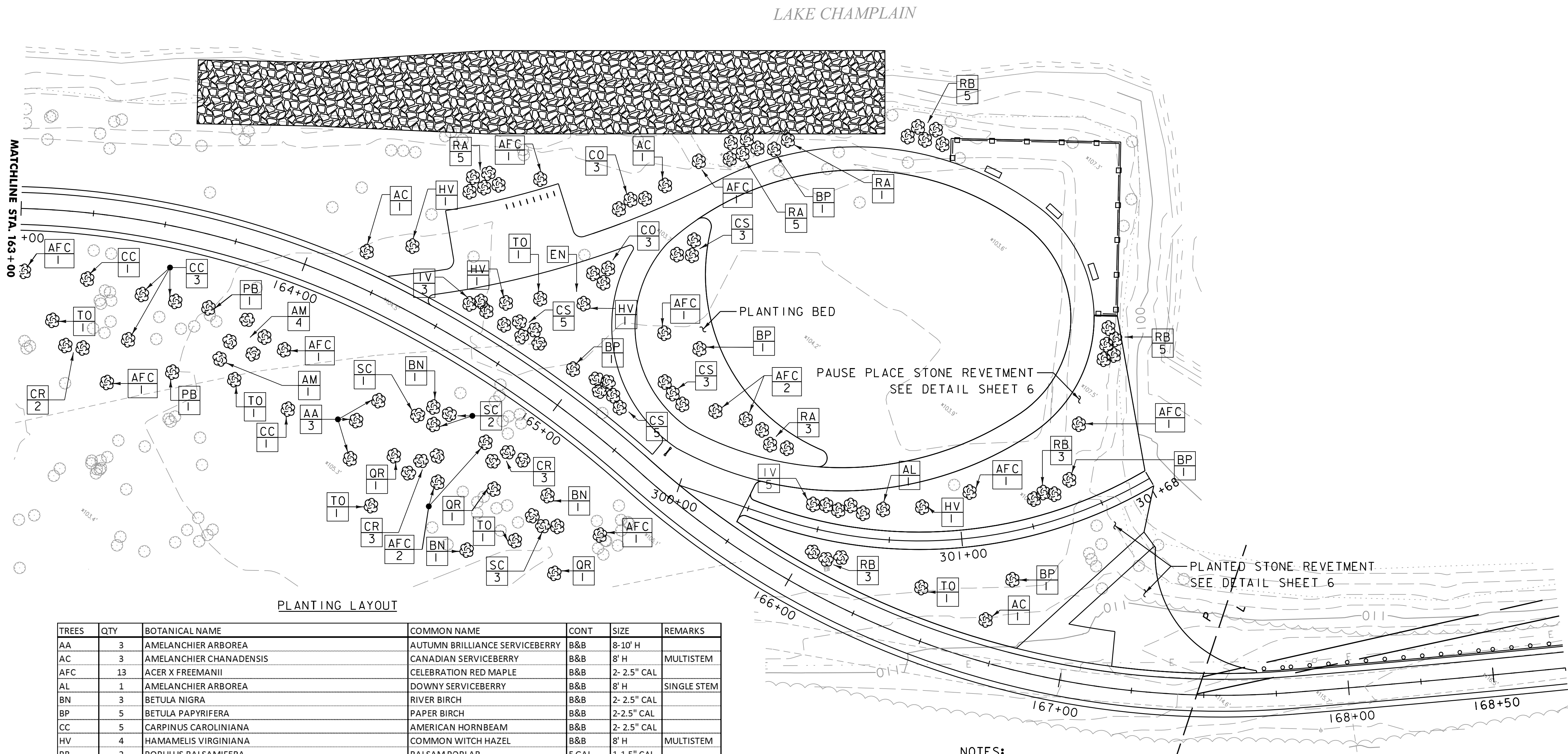
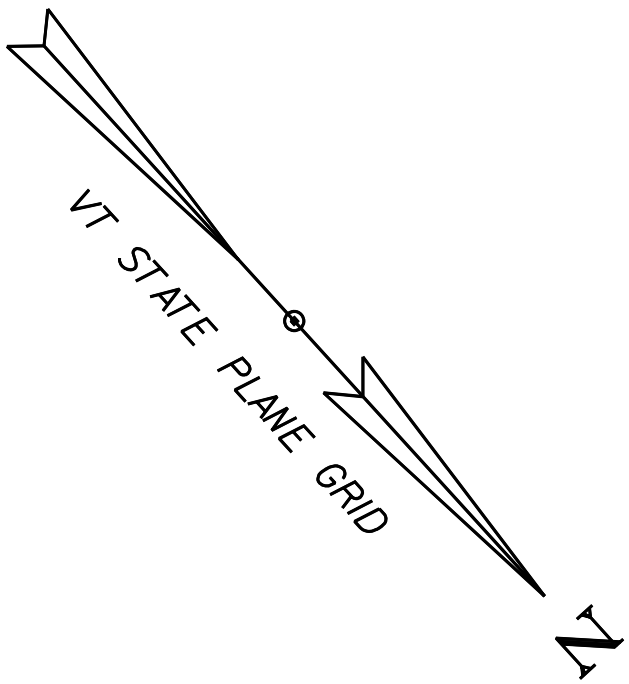
PROJECT NAME: BURLINGTON BIKE PATH  
PROJECT NUMBER: 57634.00

FILE NAME: z57634bdr_landscape.dgn  
PROJECT LEADER: M.A. COLGAN  
DESIGNED BY: P.A. MILLER  
LANDSCAPE PLAN (2 OF 3)

PLOT DATE: 3/23/2016  
DRAWN BY: P.A. MILLER  
CHECKED BY: E.B. PARIZO  
SHEET 45 OF 119







PLANTING LAYOUT

TREES	QTY	BOTANICAL NAME	COMMON NAME	CONT	SIZE	REMARKS
AA	3	AMELANCHIER ARBOREA	AUTUMN BRILLIANCE SERVICEBERRY	B&B	8-10' H	
AC	3	AMELANCHIER CHANADENSIS	CANADIAN SERVICEBERRY	B&B	8' H	MULTISTEM
AFC	13	ACER X FREEMANII	CELEBRATION RED MAPLE	B&B	2- 2.5" CAL	
AL	1	AMELANCHIER ARBOREA	DOWNY SERVICEBERRY	B&B	8' H	SINGLE STEM
BN	3	BETULA NIGRA	RIVER BIRCH	B&B	2- 2.5" CAL	
BP	5	BETULA PAPYRIFERA	PAPER BIRCH	B&B	2-2.5" CAL	
CC	5	CARPINUS CAROLINIANA	AMERICAN HORNBEAM	B&B	2- 2.5" CAL	
HV	4	HAMAMELIS VIRGINIANA	COMMON WITCH HAZEL	B&B	8' H	MULTISTEM
PB	2	POPULUS BALSAMIFERA	BALSAM POPLAR	5 GAL	1-1.5" CAL	
QR	3	QUERCUS RUBRA	NORTHERN RED OAK	B&B	2- 2.5" CAL	
TO	6	THUJA OCCIDENTALIS	NORTHERN WHITE CEDAR	B&B	6-7' H	

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	CONT	SPACING
AM	5	ARONIA MELANOCRPA	BLACK CHOKEBERRY	3 GAL	5-6' O.C.
CR	8	CORNUS RACEMOSA	GRAY DOGWOOD	3 GAL	5-6' O.C.
CO	6	CEPHALANTHUS OCCIDENTALIS	BUTTONBUSH	5 GAL	6' O.C.
CS	16	CORNUS SERICEA	RED TWIG DOGWOOD	5 GAL	5-6' O.C.
IV	8	ILEX VERTICILLATA	WINTERBERRY	5 GAL	5-6' O.C.
RA	14	RHUS AROMATICA	FRAGRANT SUMAC	5 GAL	5-6' O.C.
RB	16	ROSA BLANDA	SMOOTH ROSE	5 GAL	5-6' O.C.
SC	6	SAMBUCUS CANADENSIS	AMERICAN ELDERBERRY	3 GAL	5' O.C.

PLANT	QTY	BOTANICAL NAME	REMARKS
EN	4550 SF	ERNST SEED MIX NORTHEASTERN U.S. ROADSIDE NATIVE MIX	SEED

NOTES:

- ALL PROPOSED NEW PLANTING LOCATIONS ARE APPROXIMATE. THE RESIDENT ENGINEER AND CITY ARBORIST SHALL STAKE THE EXACT LOCATION OF PLANTINGS PRIOR TO PLACEMENT.
- BALLED AND BURLAPPED PLANTS (B&B) AND CONTAINERIZED PLANTS TO BE PLACED AS DIRECTED IN VIRTRANS 2011 STANDARD SPECIFICATIONS FOR CONSTRUCTION ITEM NUMBER 656.08.
- TREE PLANTING PITS SHALL BE THREE (3) TIMES THE DIAMETER OF THE ROOT BALL AND TO A DEPTH OF 28 INCHES.
- SHRUB PLANTING PITS SHALL BE FIVE (5) TIMES THE DIAMETER OF THE ROOT BALL OR CONTAINER AND TO A DEPTH OF 20 INCHES.

SCALE 1" = 20' - 0"  
20 0 20

PROJECT NAME: BURLINGTON BIKE PATH

PROJECT NUMBER: 57634.00

FILE NAME: z57634bdr_landscape.dgn

PROJECT LEADER: M.A. COLGAN

DESIGNED BY: P.A. MILLER

LANDSCAPE PLAN (3 OF 3)

PLOT DATE: 3/23/2016

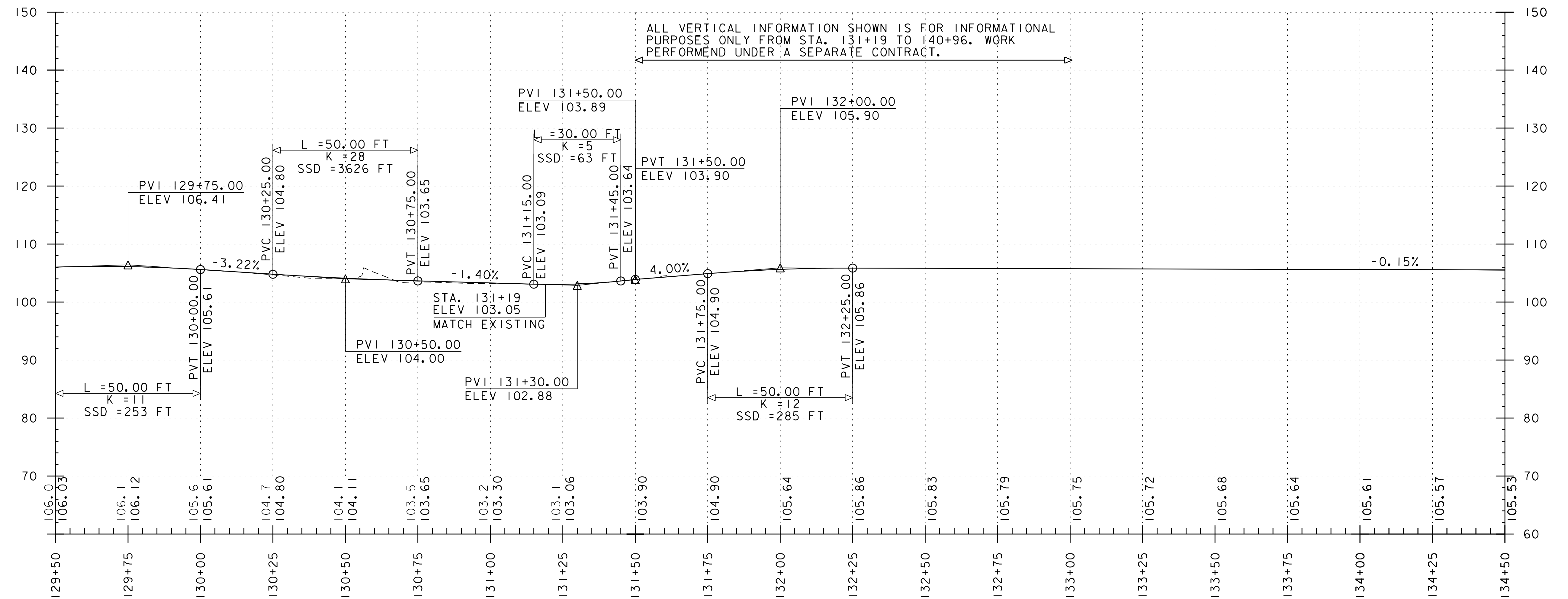
DRAWN BY: P.A. MILLER

CHECKED BY: E.B. PARIZO

SHEET 46 OF 119







PROFILE KEY

— = PROPOSED FINISHED GRADE

- - - = EXISTING GROUND

NOTE:

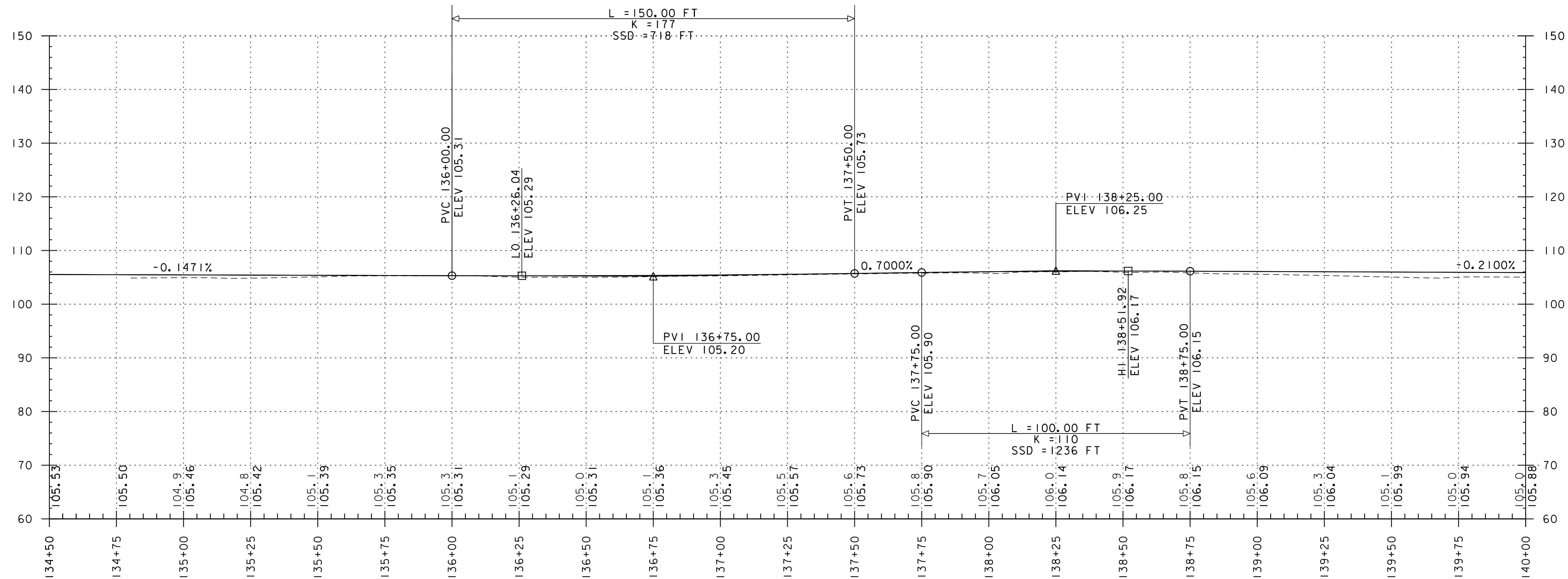
GRADES SHOWN TO THE NEAREST TENTH ARE EXISTING TOP OF PAVEMENT ALONG C

GRADES SHOWN TO THE NEAREST HUNDRETH ARE THE PROPOSED TOP OF PAVEMENT ALONG C



PROJECT NAME: BURLINGTON BIKE PATH	
PROJECT NUMBER: 57634.00	
FILE NAME: z57634pro.dgn	PLOT DATE: 3/23/2016
PROJECT LEADER: M.A. COLGAN	DRAWN BY: D.A. GINGRAS
DESIGNED BY: D.A. GINGRAS	CHECKED BY: M.A. COLGAN
PATH PROFILE SHEET (1 OF 11)	SHEET 47 OF 119





PROFILE KEY

— = PROPOSED FINISHED GRADE  
- - - = EXISTING GROUND

NOTE:

GRADES SHOWN TO THE NEAREST TENTH ARE EXISTING TOP OF PAVEMENT ALONG C  
GRADES SHOWN TO THE NEAREST HUNDRETH ARE THE PROPOSED TOP OF PAVEMENT ALONG C



PROJECT NAME: BURLINGTON BIKE PATH

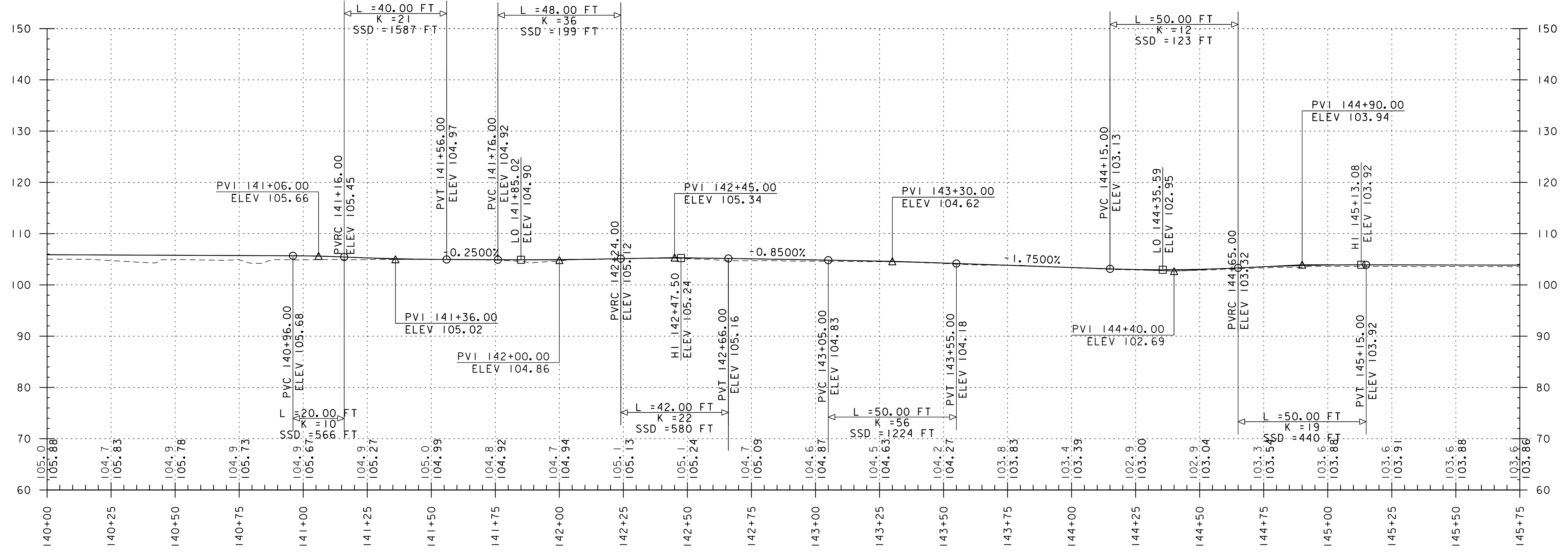
PROJECT NUMBER: 57634.00

FILE NAME: z57634pro.dgn  
PROJECT LEADER: M.A. COLGAN  
DESIGNED BY: D.A. GINGRAS  
PATH PROFILE SHEET (2 OF 11)

PLOT DATE: 3/23/2016  
DRAWN BY: D.A. GINGRAS  
CHECKED BY: M.A. COLGAN  
SHEET 48 OF 119



ALL VERTICAL INFORMATION SHOWN IS FOR INFORMATIONAL PURPOSES ONLY FROM STA. 131+19 TO 140+96. WORK SHALL BE PERFORMED UNDER A SEPARATE CONTRACT.



PROFILE KEY

— = PROPOSED FINISHED GRADE

- - - = EXISTING GROUND

NOTE:

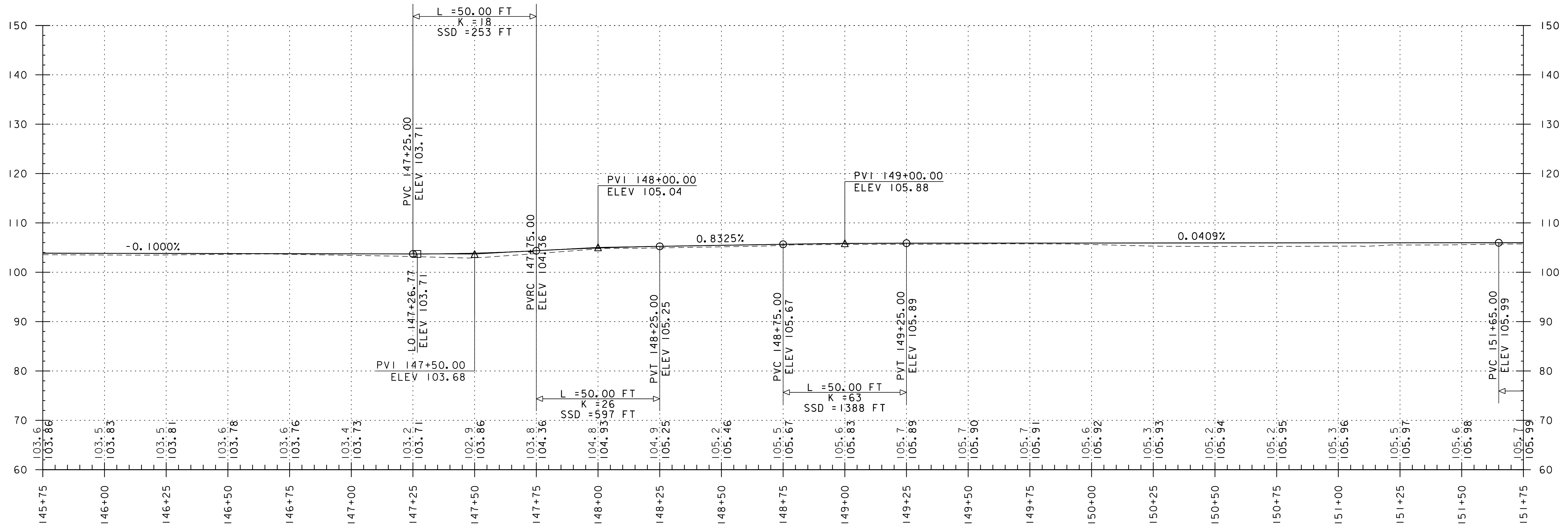
GRADES SHOWN TO THE NEAREST TENTH ARE EXISTING TOP OF PAVEMENT ALONG C

GRADES SHOWN TO THE NEAREST HUNDRETH ARE THE PROPOSED TOP OF PAVEMENT ALONG C



PROJECT NAME: BURLINGTON BIKE PATH	
PROJECT NUMBER: 57634.00	
FILE NAME: z57634pro.dgn	PLOT DATE: 3/23/2016
PROJECT LEADER: M.A. COLGAN	DRAWN BY: D.A. GINGRAS
DESIGNED BY: D.A. GINGRAS	CHECKED BY: M.A. COLGAN
PATH PROFILE SHEET (3 OF 11)	SHEET 49 OF 119





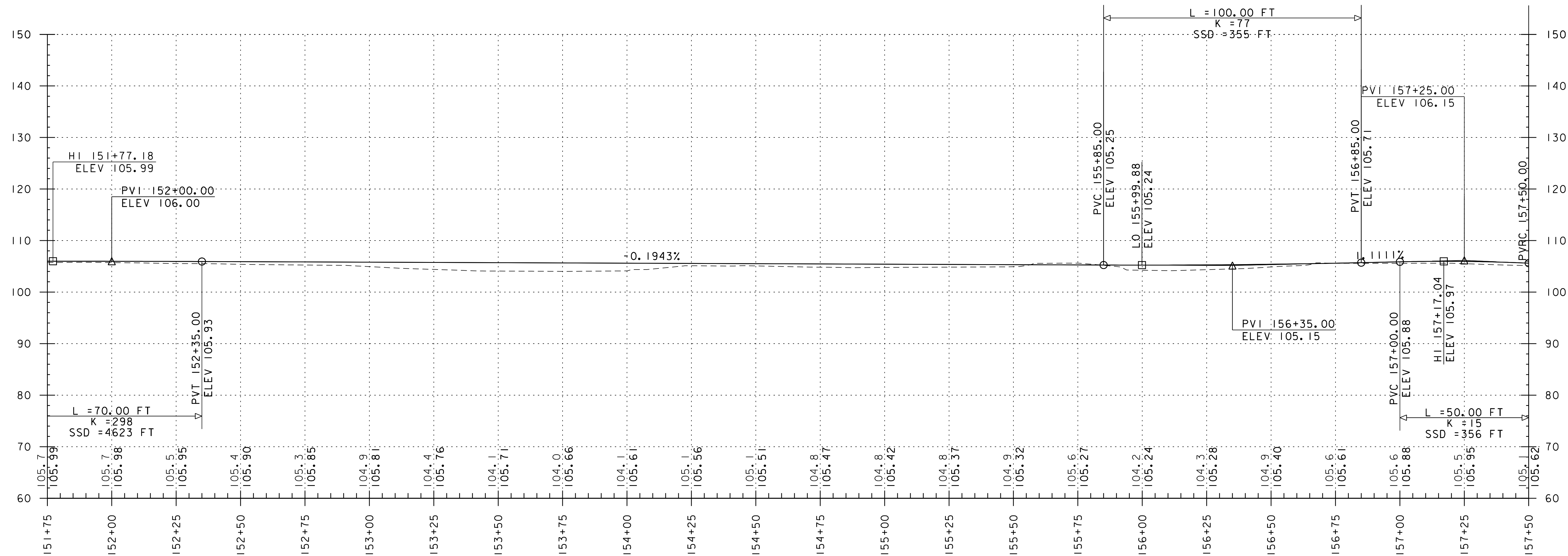
PROFILE KEY	
—	= PROPOSED FINISHED GRADE
- - -	= EXISTING GROUND

NOTE:  
GRADES SHOWN TO THE NEAREST TENTH ARE EXISTING TOP OF PAVEMENT ALONG C  
GRADES SHOWN TO THE NEAREST HUNDRETH ARE THE PROPOSED TOP OF PAVEMENT ALONG C



PROJECT NAME: BURLINGTON BIKE PATH	
PROJECT NUMBER: 57634.00	
FILE NAME: z57634pro.dgn	PLOT DATE: 3/23/2016
PROJECT LEADER: M.A. COLGAN	DRAWN BY: D.A. GINGRAS
DESIGNED BY: D.A. GINGRAS	CHECKED BY: M.A. COLGAN
PATH PROFILE SHEET (4 OF 11)	SHEET 50 OF 119





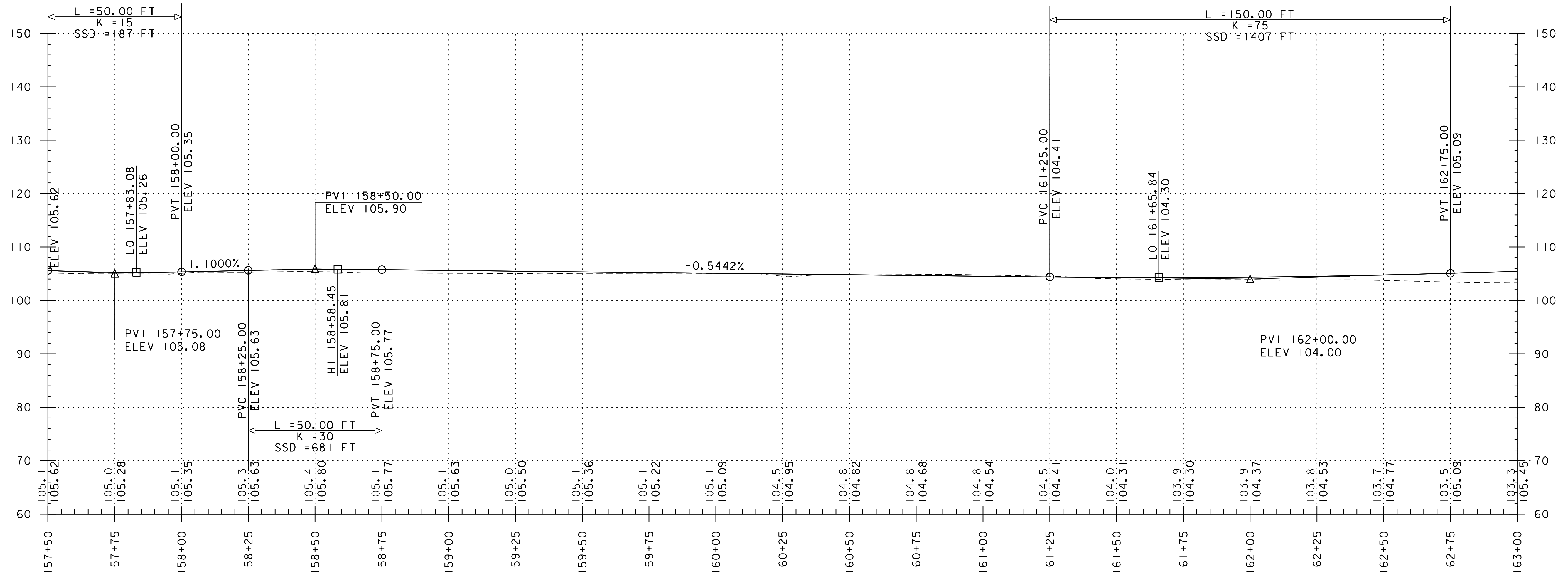
PROFILE KEY  
—— = PROPOSED FINISHED GRADE  
---- = EXISTING GROUND

NOTE:  
GRADES SHOWN TO THE NEAREST TENTH ARE EXISTING TOP OF PAVEMENT ALONG C  
GRADES SHOWN TO THE NEAREST HUNDRETH ARE THE PROPOSED TOP OF PAVEMENT ALONG C



PROJECT NAME: BURLINGTON BIKE PATH	
PROJECT NUMBER: 57634.00	
FILE NAME: z57634pro.dgn	PLOT DATE: 3/23/2016
PROJECT LEADER: M.A. COLGAN	DRAWN BY: D.A. GINGRAS
DESIGNED BY: D.A. GINGRAS	CHECKED BY: M.A. COLGAN
PATH PROFILE SHEET (5 OF 11)	SHEET 51 OF 119





PROFILE KEY  
—— = PROPOSED FINISHED GRADE  
---- = EXISTING GROUND

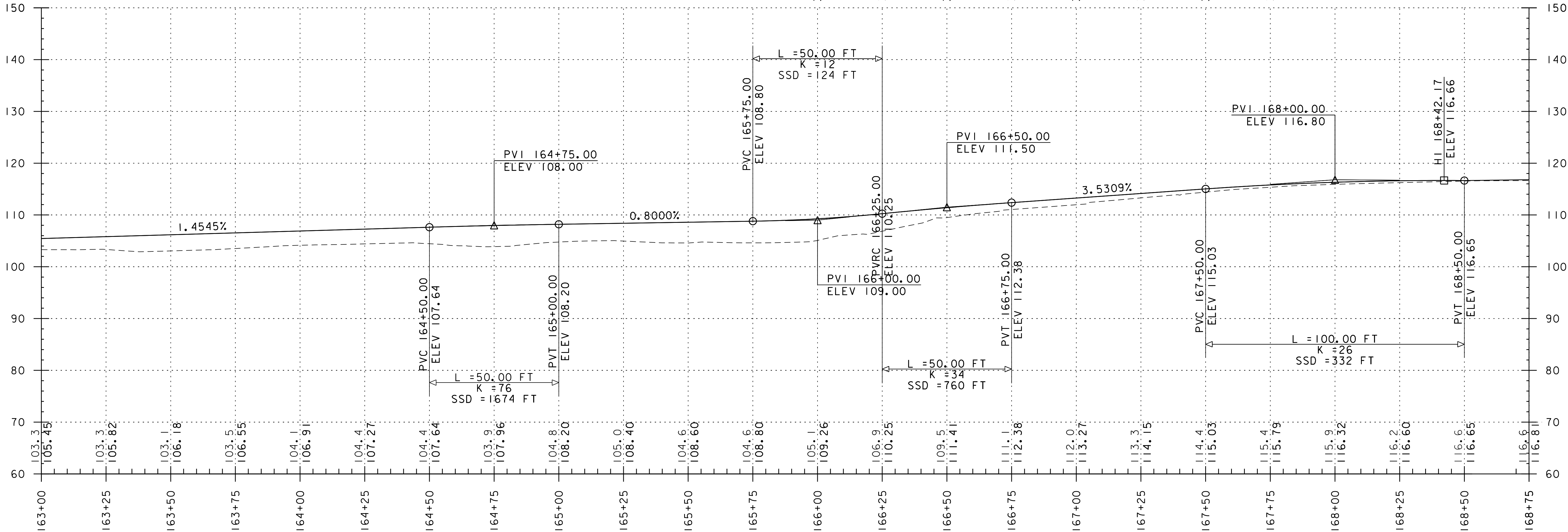
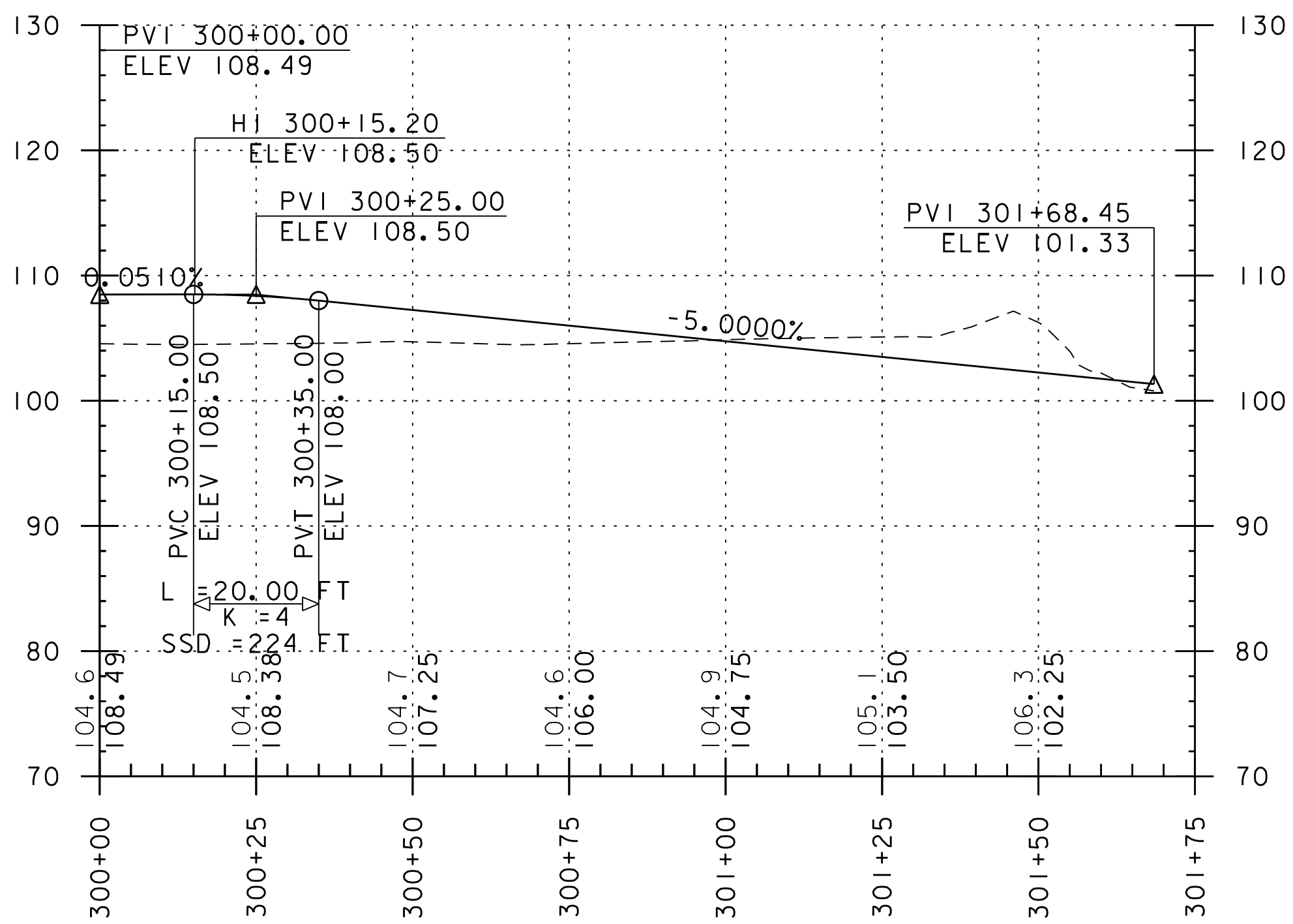
NOTE:  
GRADES SHOWN TO THE NEAREST TENTH ARE EXISTING TOP OF PAVEMENT ALONG C  
GRADES SHOWN TO THE NEAREST HUNDRETH ARE THE PROPOSED TOP OF PAVEMENT ALONG C



PROJECT NAME: BURLINGTON BIKE PATH	
PROJECT NUMBER: 57634.00	
FILE NAME: z57634pro.dgn	PLOT DATE: 3/23/2016
PROJECT LEADER: M.A. COLGAN	DRAWN BY: D.A. GINGRAS
DESIGNED BY: D.A. GINGRAS	CHECKED BY: M.A. COLGAN
PATH PROFILE SHEET (6 OF 11)	SHEET 52 OF 119



TEXACO BEACH WALKWAY



NOTE:

GRADES SHOWN TO THE NEAREST TENTH ARE EXISTING TOP OF PAVEMENT ALONG C  
GRADES SHOWN TO THE NEAREST HUNDRETH ARE THE PROPOSED TOP OF PAVEMENT ALONG C

PROFILE KEY

— = PROPOSED FINISHED GRADE  
- - - = EXISTING GROUND



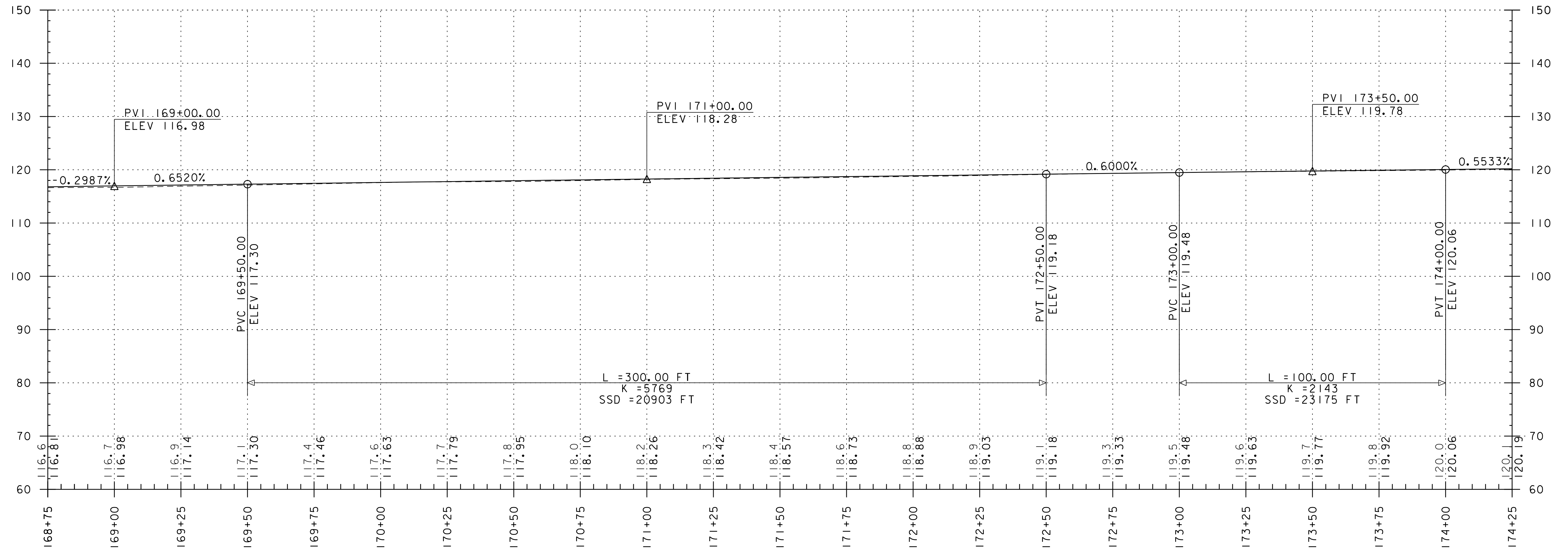
PROJECT NAME: BURLINGTON BIKE PATH

PROJECT NUMBER: 57634.00

FILE NAME: z57634pro.dgn  
PROJECT LEADER: M.A. COLGAN  
DESIGNED BY: D.M. PECK  
PATH PROFILE SHEET (7 OF 11)

PLOT DATE: 3/23/2016  
DRAWN BY: P.A. MILLER  
CHECKED BY: M.A. COLGAN  
SHEET 53 OF 119





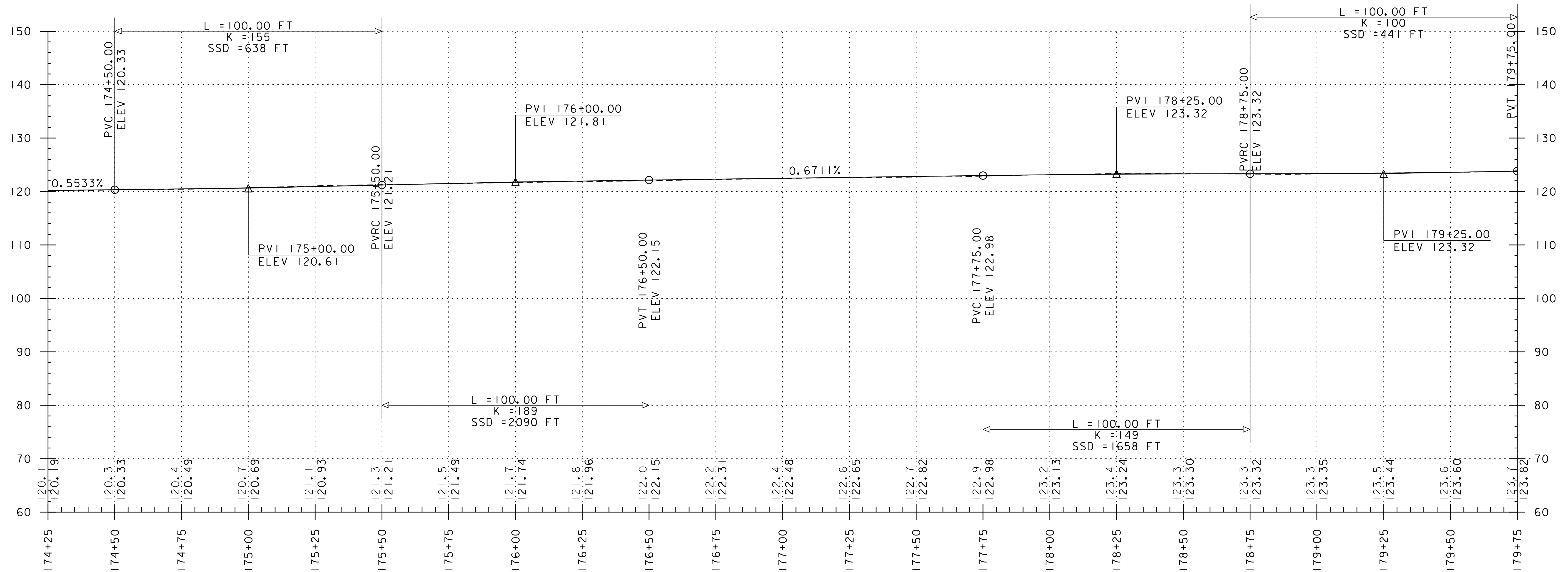
PROFILE KEY  
—— = PROPOSED FINISHED GRADE  
- - - = EXISTING GROUND

NOTE:  
GRADES SHOWN TO THE NEAREST TENTH ARE EXISTING TOP OF PAVEMENT ALONG C  
GRADES SHOWN TO THE NEAREST HUNDRETH ARE THE PROPOSED TOP OF PAVEMENT ALONG C



PROJECT NAME: BURLINGTON BIKE PATH	
PROJECT NUMBER: 57634.00	
FILE NAME: z57634pro.dgn	PLOT DATE: 3/23/2016
PROJECT LEADER: M.A. COLGAN	DRAWN BY: P.A. MILLER
DESIGNED BY: D.M. PECK	CHECKED BY: M.A. COLGAN
PATH PROFILE SHEET (8 OF 11)	SHEET 54 OF 119





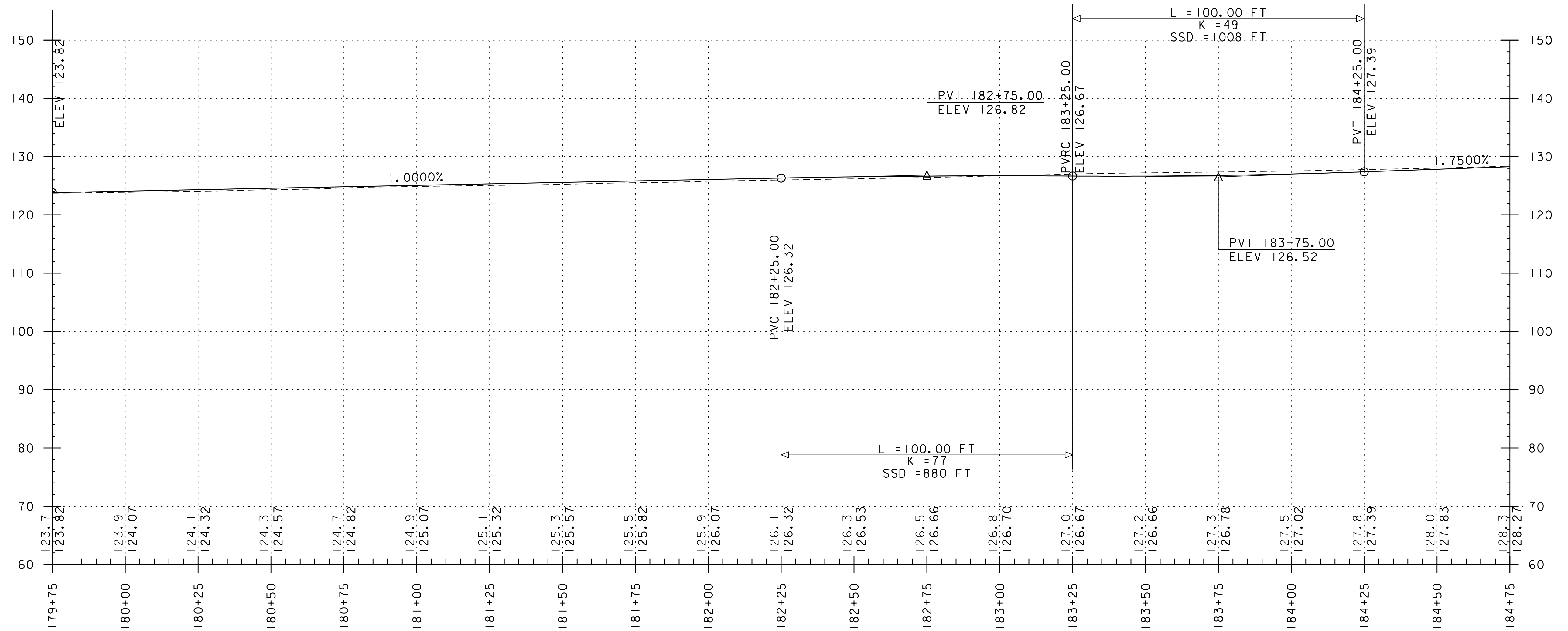
PROFILE KEY	
—	= PROPOSED FINISHED GRADE
- - -	= EXISTING GROUND

NOTE:  
GRADES SHOWN TO THE NEAREST TENTH ARE EXISTING TOP OF PAVEMENT ALONG C  
GRADES SHOWN TO THE NEAREST HUNDRETH ARE THE PROPOSED TOP OF PAVEMENT ALONG C



PROJECT NAME: BURLINGTON BIKE PATH	
PROJECT NUMBER: 57634.00	
FILE NAME: z57634pro.dgn	PLOT DATE: 3/23/2016
PROJECT LEADER: M.A. COLGAN	DRAWN BY: P.A. MILLER
DESIGNED BY: D.M. PECK	CHECKED BY: M.A. COLGAN
PATH PROFILE SHEET (9 OF 11)	SHEET 55 OF 119





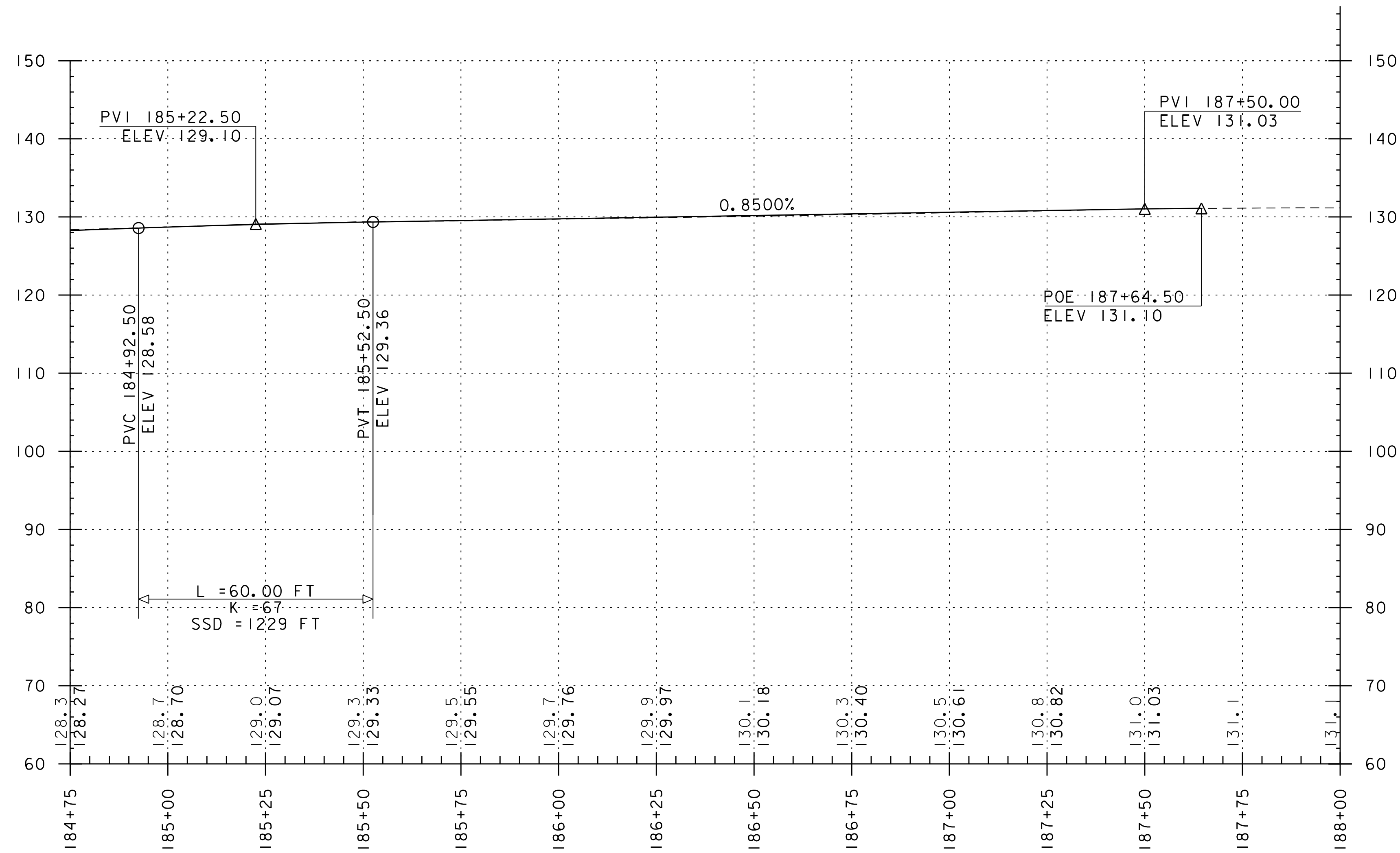
PROFILE KEY	
	= PROPOSED FINISHED GRADE
	= EXISTING GROUND

NOTE:  
GRADES SHOWN TO THE NEAREST TENTH ARE EXISTING TOP OF PAVEMENT ALONG C  
GRADES SHOWN TO THE NEAREST HUNDRETH ARE THE PROPOSED TOP OF PAVEMENT ALONG C



PROJECT NAME: BURLINGTON BIKE PATH	
PROJECT NUMBER: 57634.00	
FILE NAME: z57634pro.dgn	PLOT DATE: 3/23/2016
PROJECT LEADER: M.A. COLGAN	DRAWN BY: P.A. MILLER
DESIGNED BY: D.M. PECK	CHECKED BY: M.A. COLGAN
PATH PROFILE SHEET (10 OF 11)	SHEET 56 OF 119





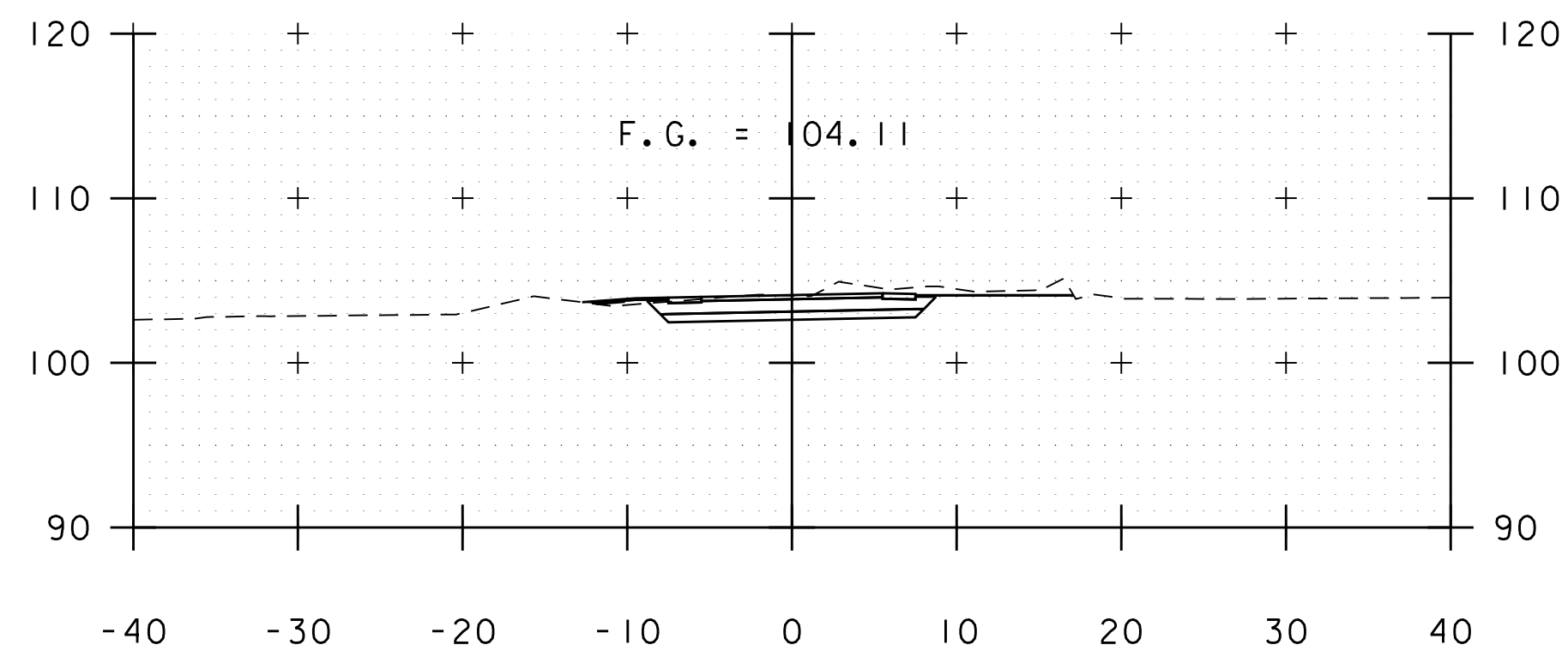
PROFILE KEY	
	= PROPOSED FINISHED GRADE
	= EXISTING GROUND

NOTE:  
 GRADES SHOWN TO THE NEAREST TENTH ARE EXISTING TOP OF PAVEMENT ALONG C  
 GRADES SHOWN TO THE NEAREST HUNDRETH ARE THE PROPOSED TOP OF PAVEMENT ALONG C

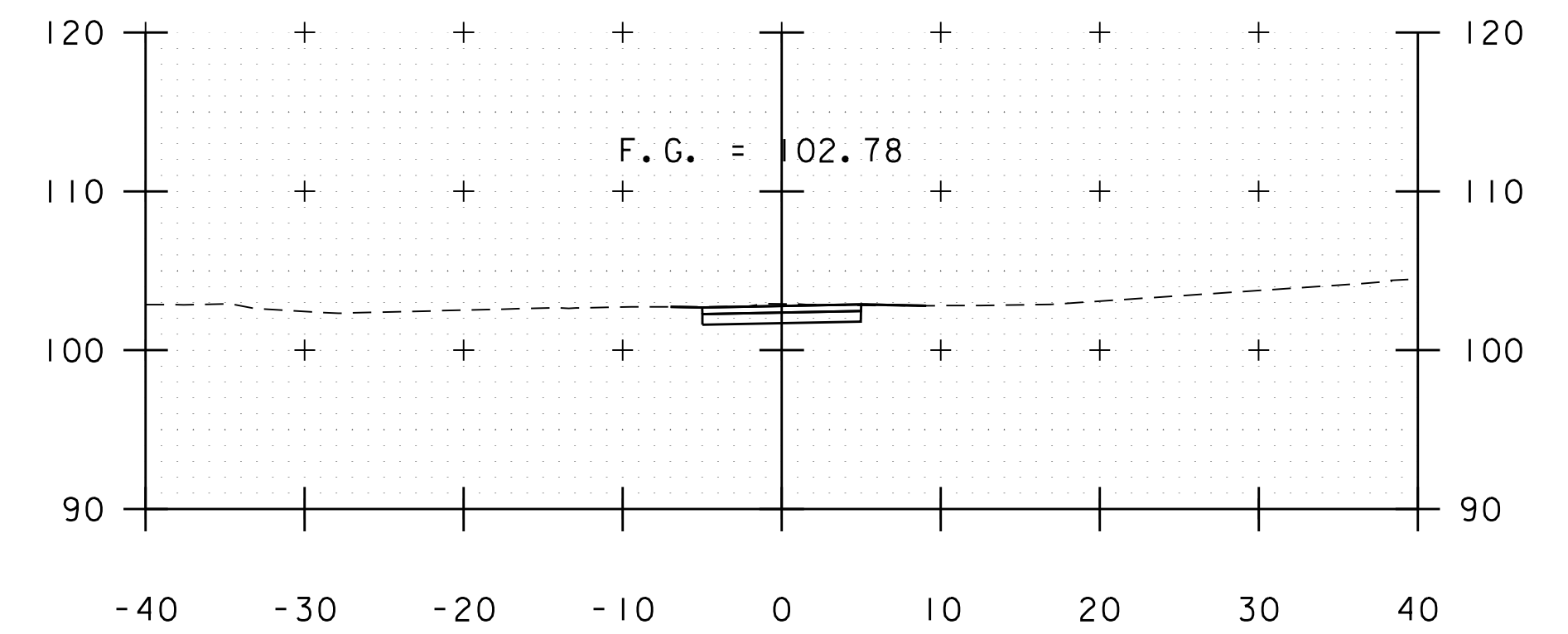


PROJECT NAME: BURLINGTON BIKE PATH	
PROJECT NUMBER: 57634.00	
FILE NAME: z57634prodgn	PLOT DATE: 3/23/2016
PROJECT LEADER: M.A. COLGAN	DRAWN BY: P.A. MILLER
DESIGNED BY: D.M. PECK	CHECKED BY: M.A. COLGAN
PATH PROFILE SHEET (11 OF 11)	SHEET 57 OF 119

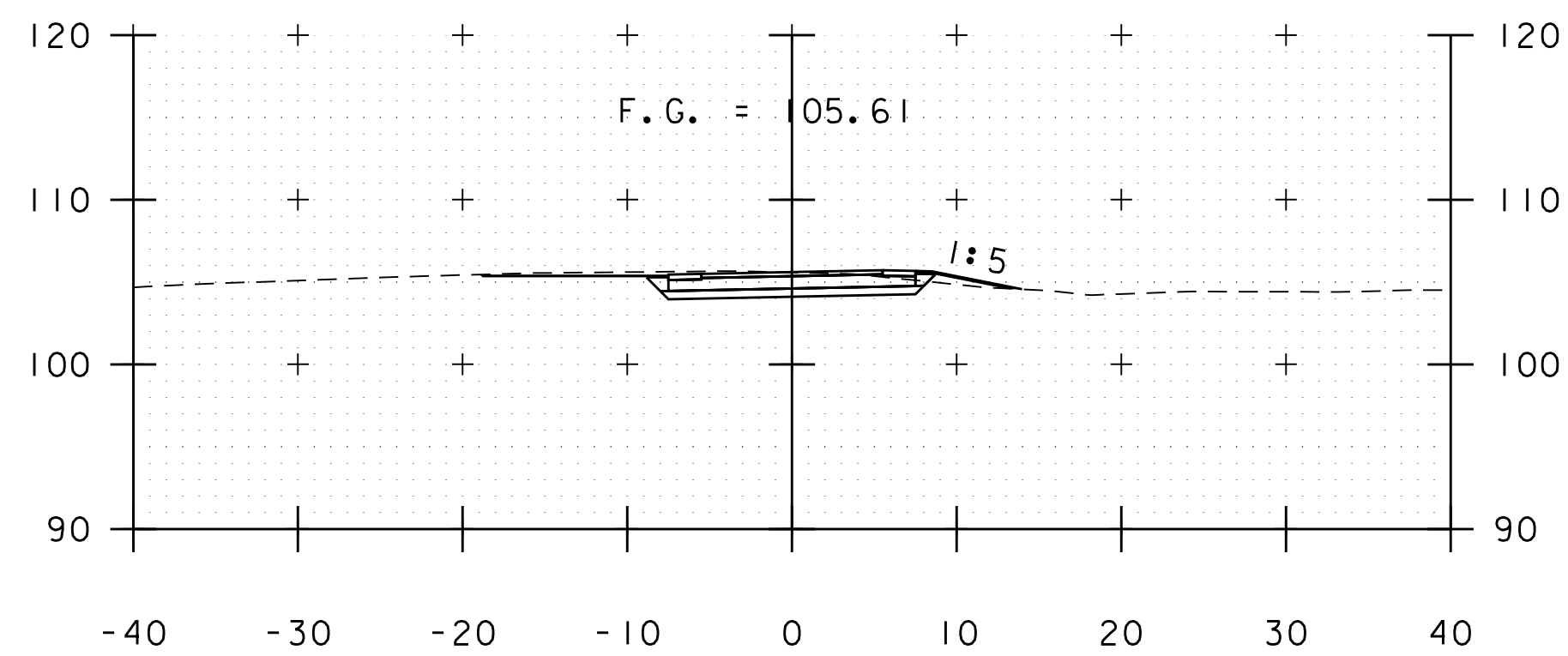




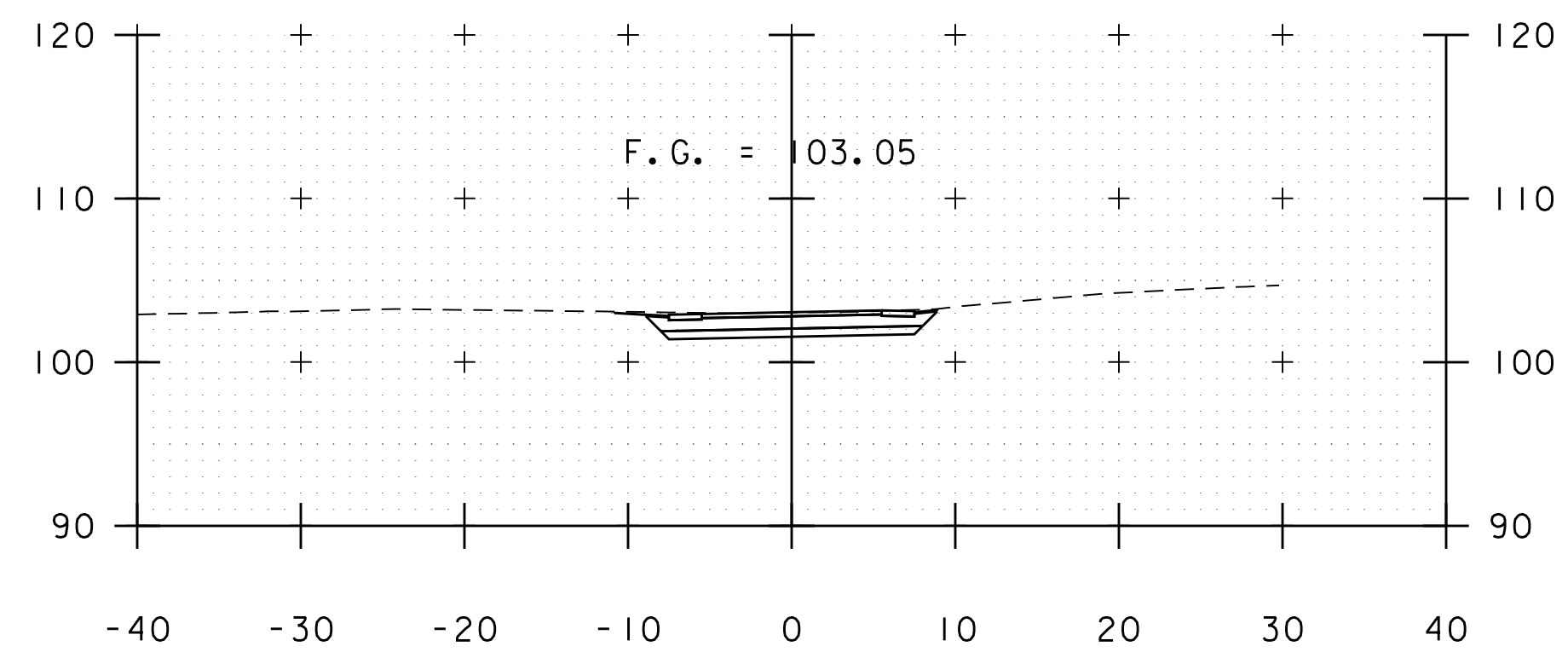
130+50



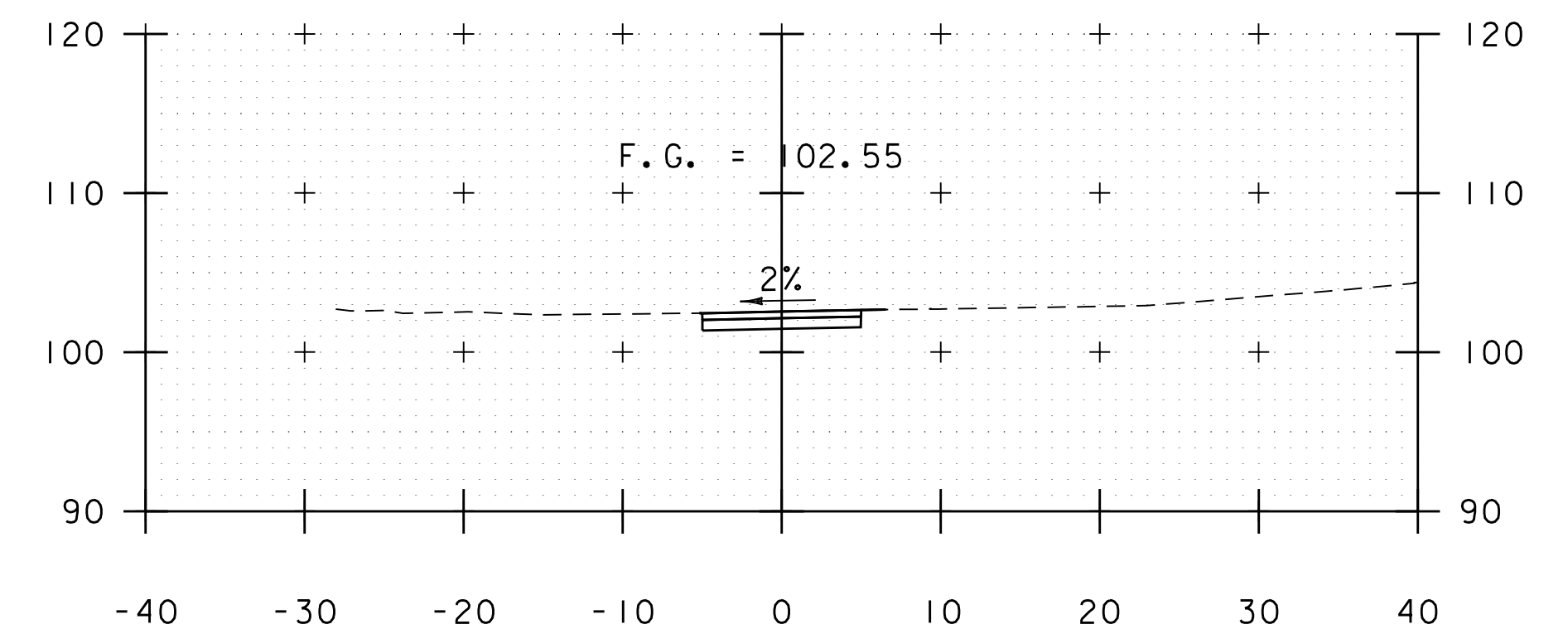
204+00



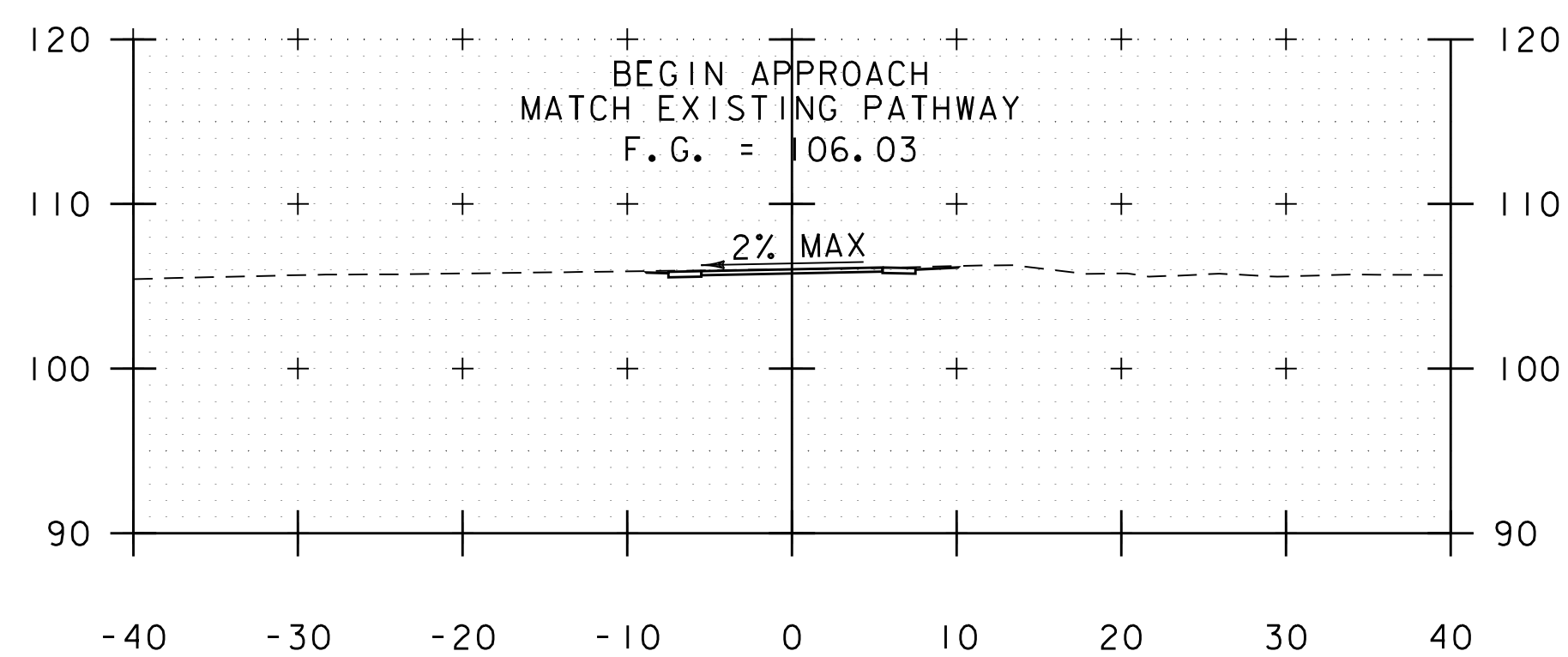
130+00



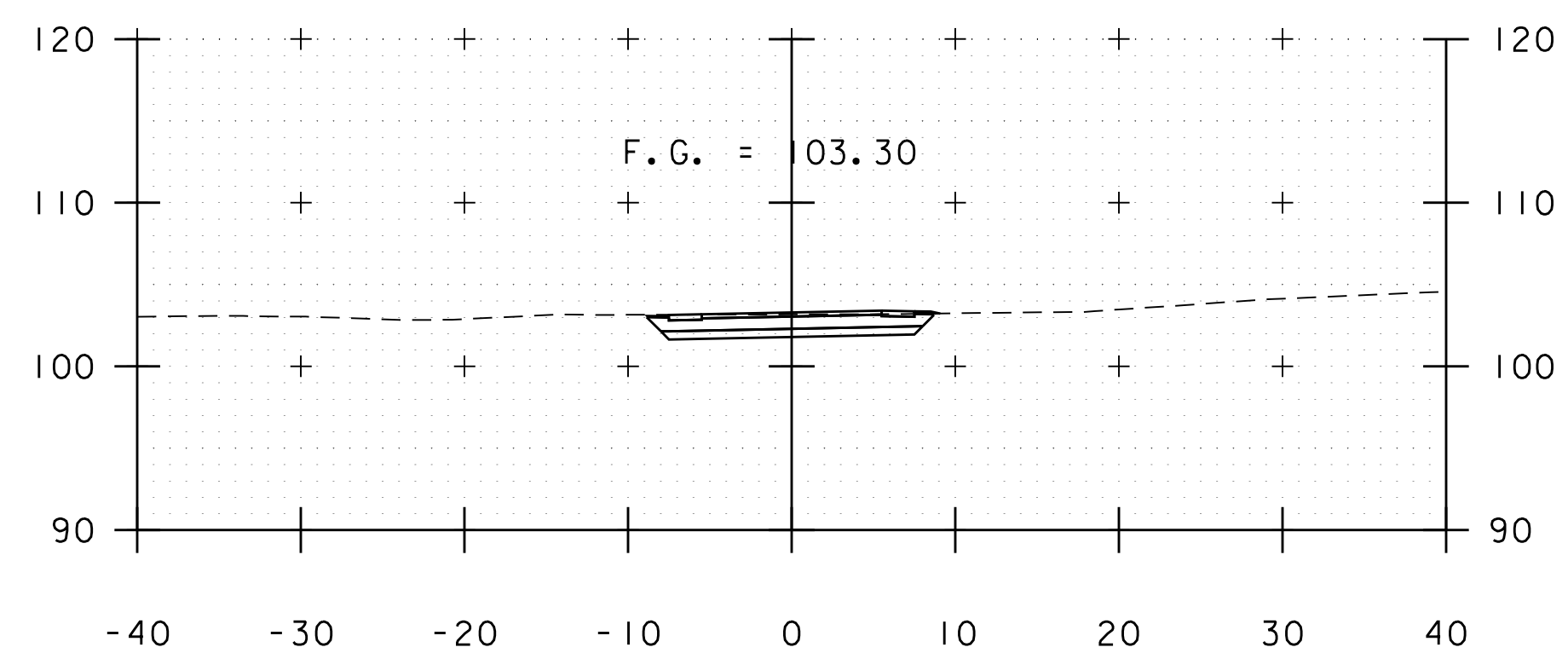
131+19



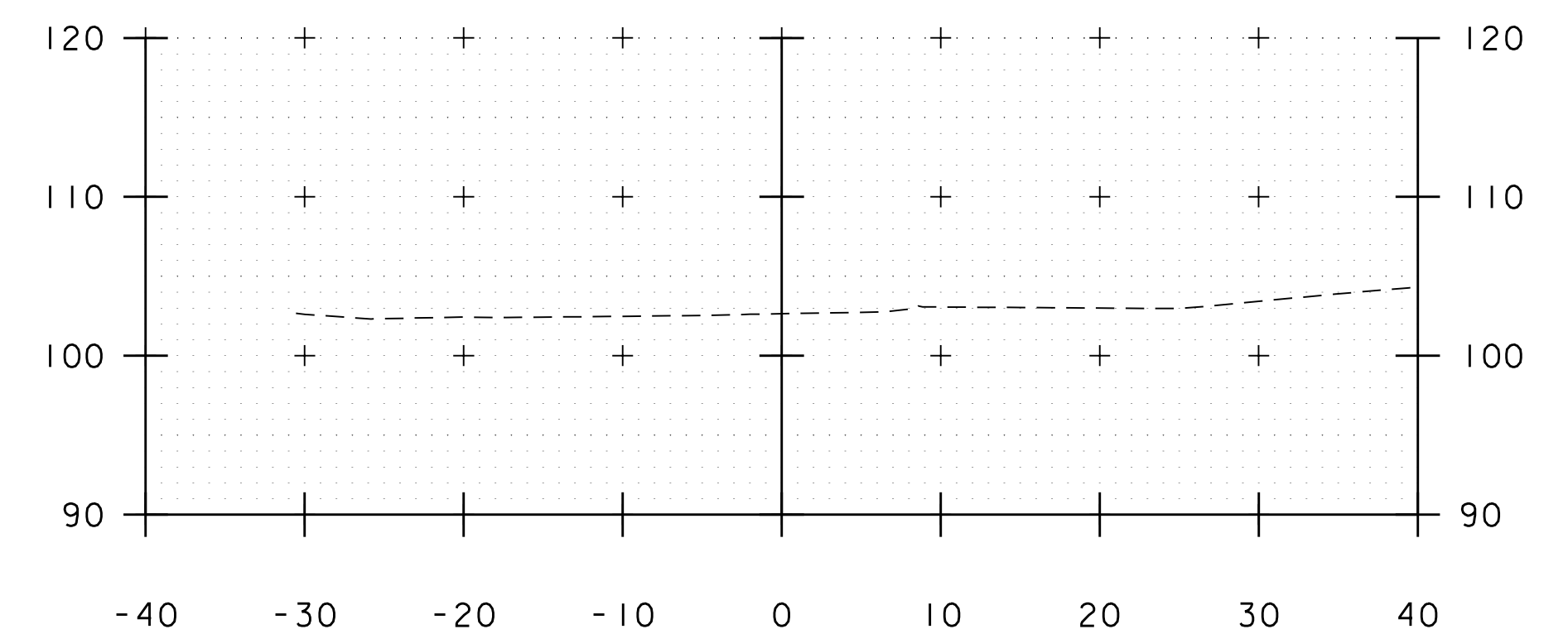
203+75



129+50



131+00



203+50

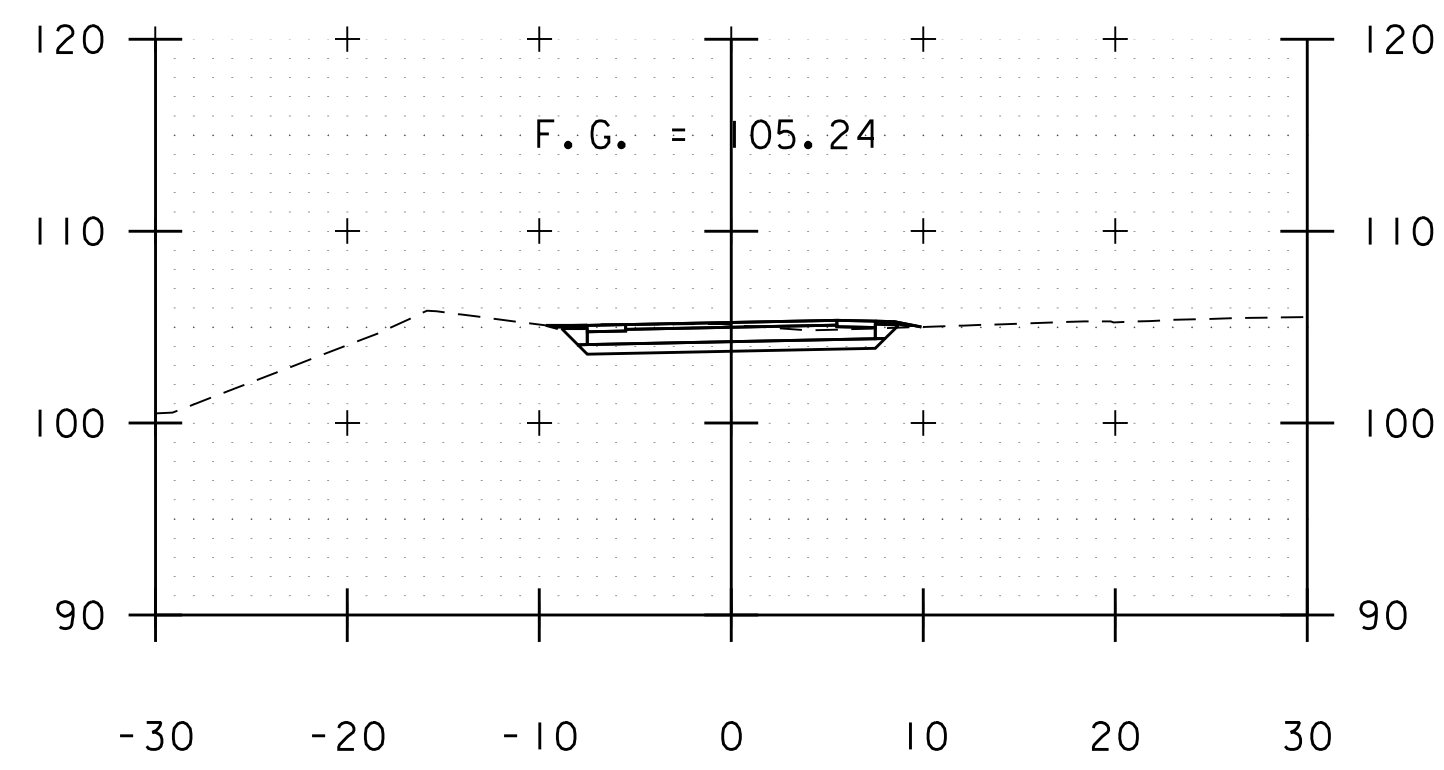


PROJECT NAME: BURLINGTON BIKE PATH  
PROJECT NUMBER: 57634.00

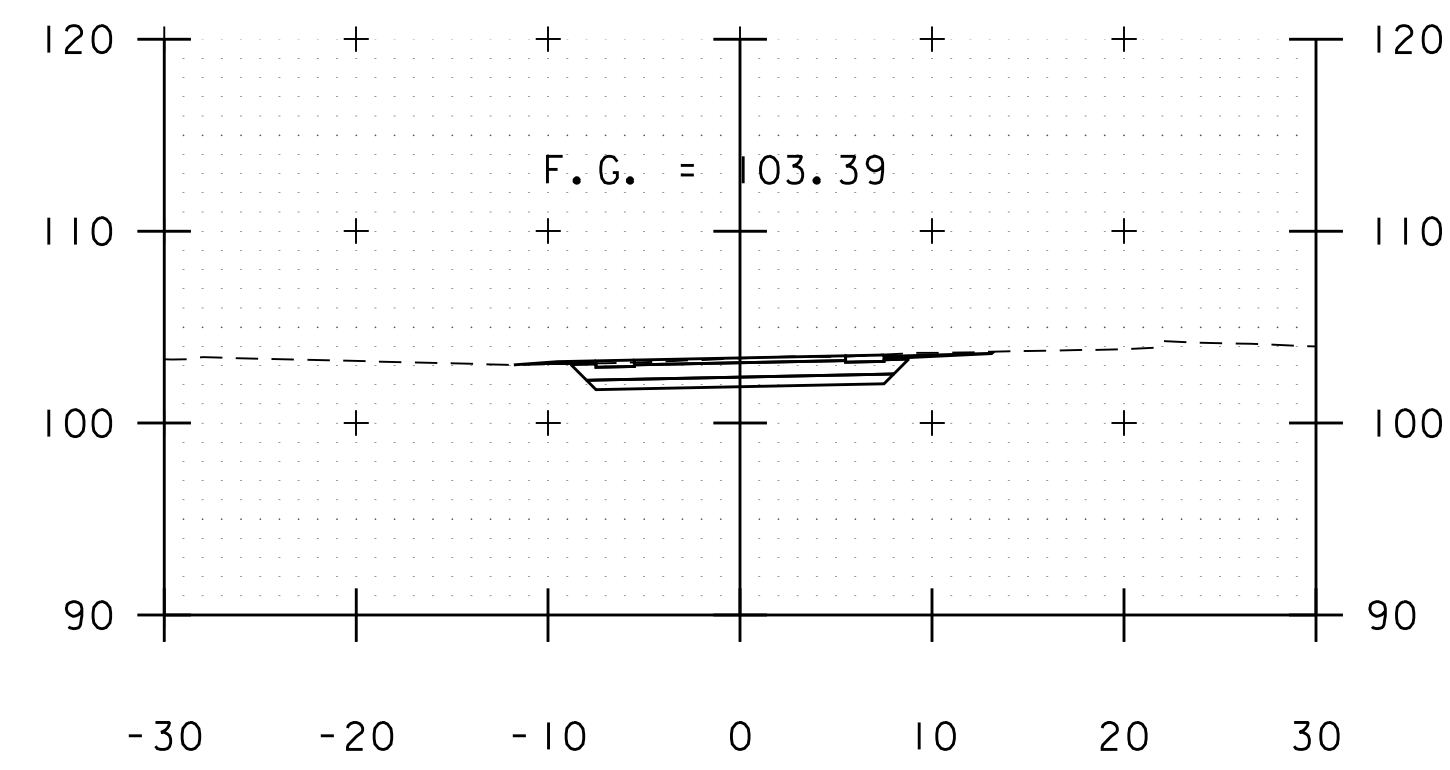
FILE NAME: z57634xs.dgn  
PROJECT LEADER: M.A. COLGAN  
DESIGNED BY: D.M. PECK  
PATH CROSS SECTIONS (10 OF 18)

PLOT DATE: 3/23/2016  
DRAWN BY: P.A. MILLER  
CHECKED BY: M.A. COLGAN  
SHEET 58 OF 119

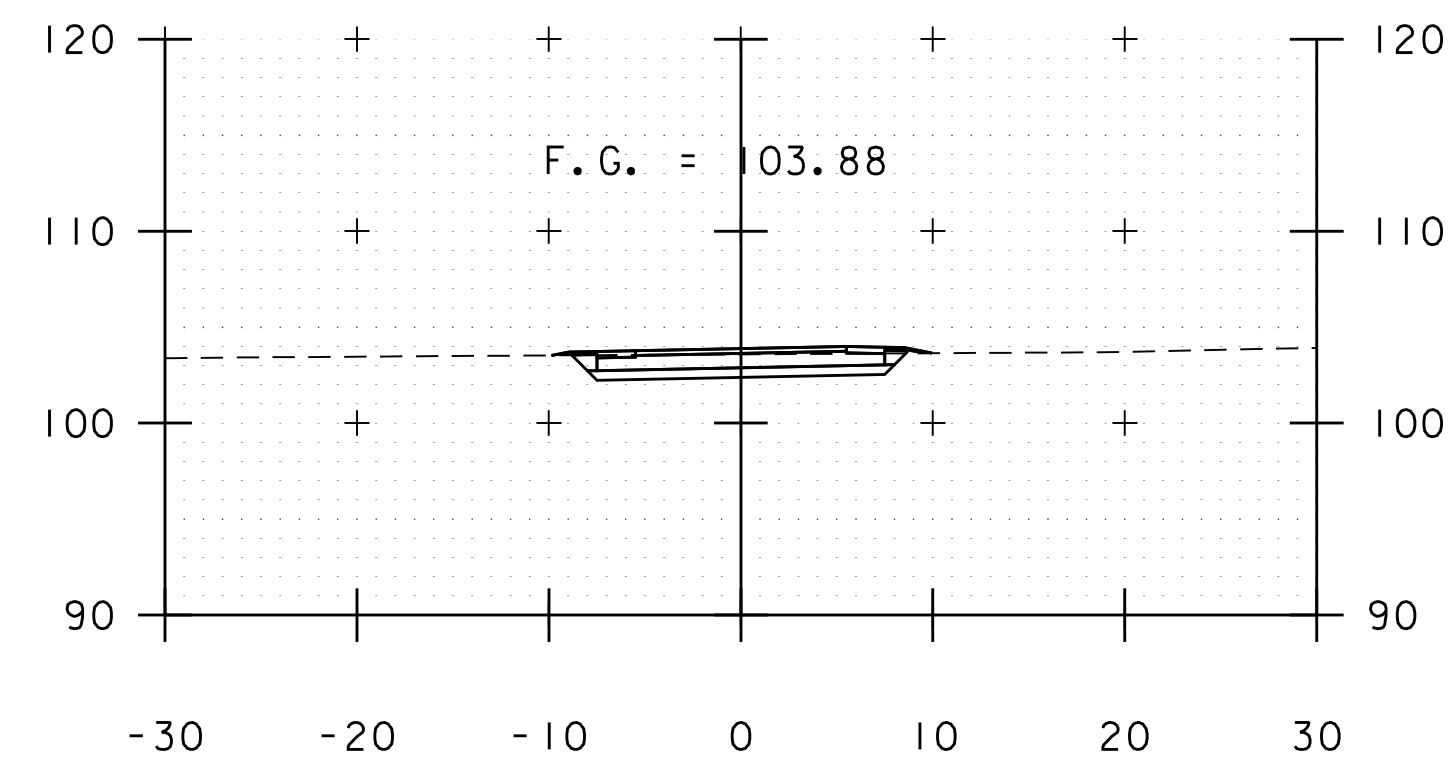




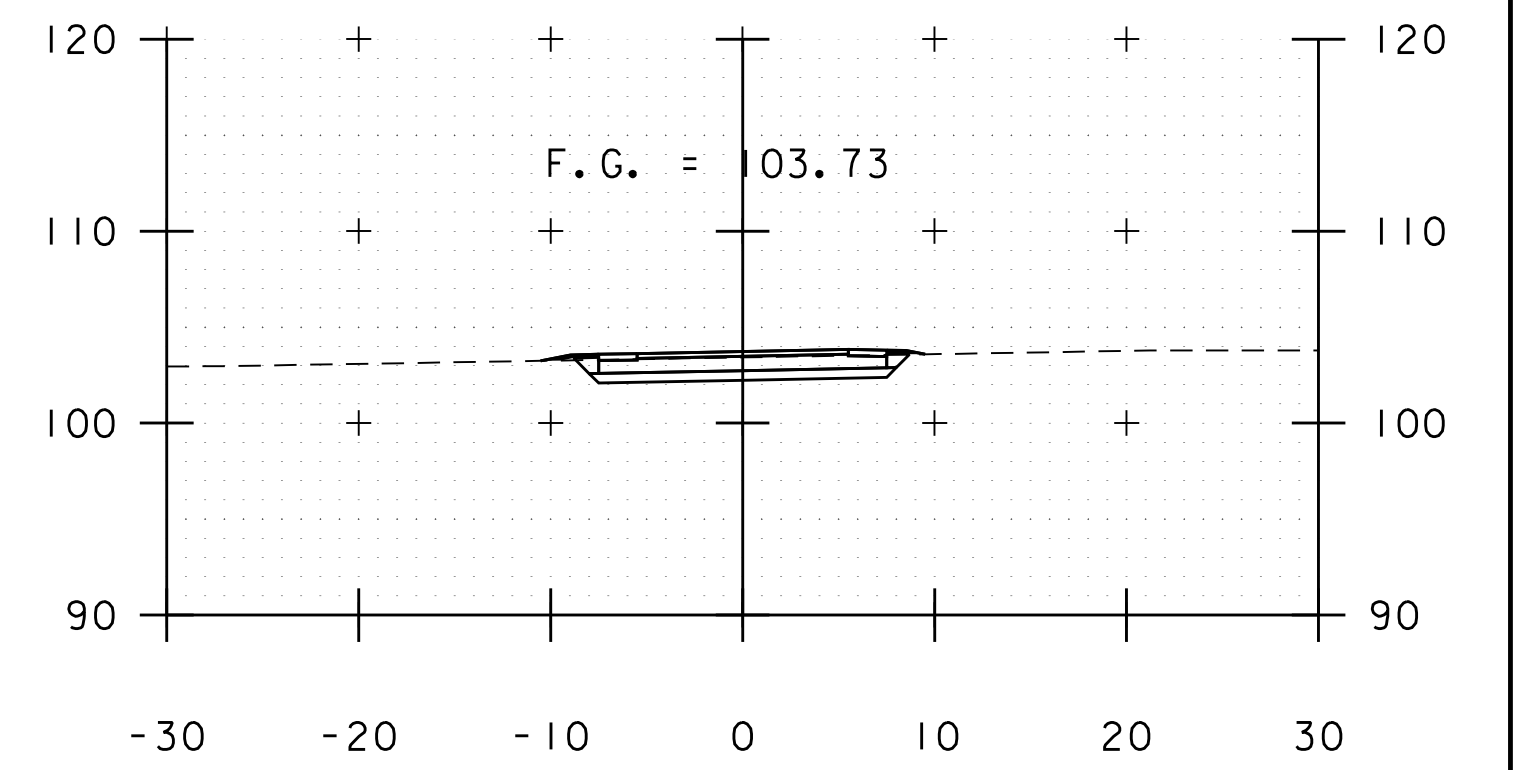
142+50



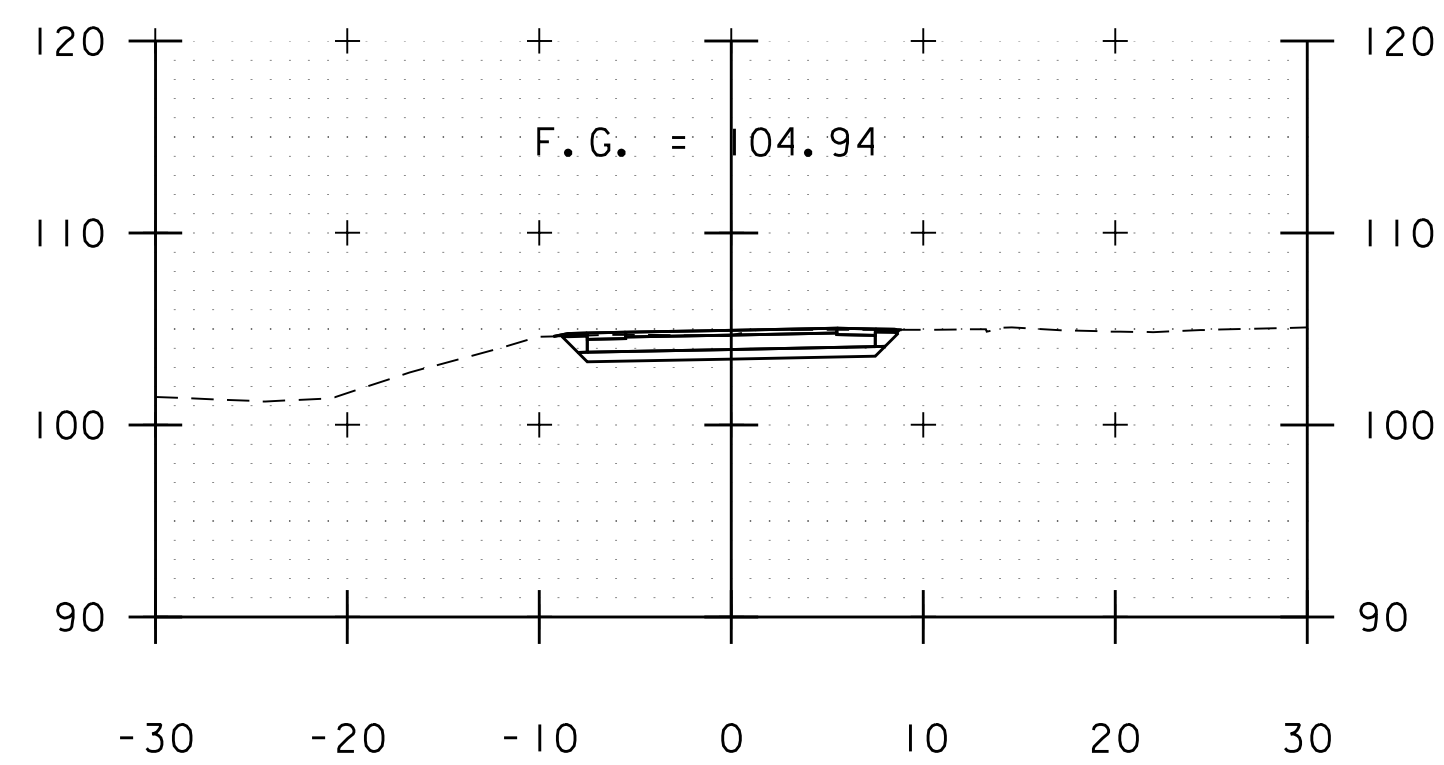
144+00



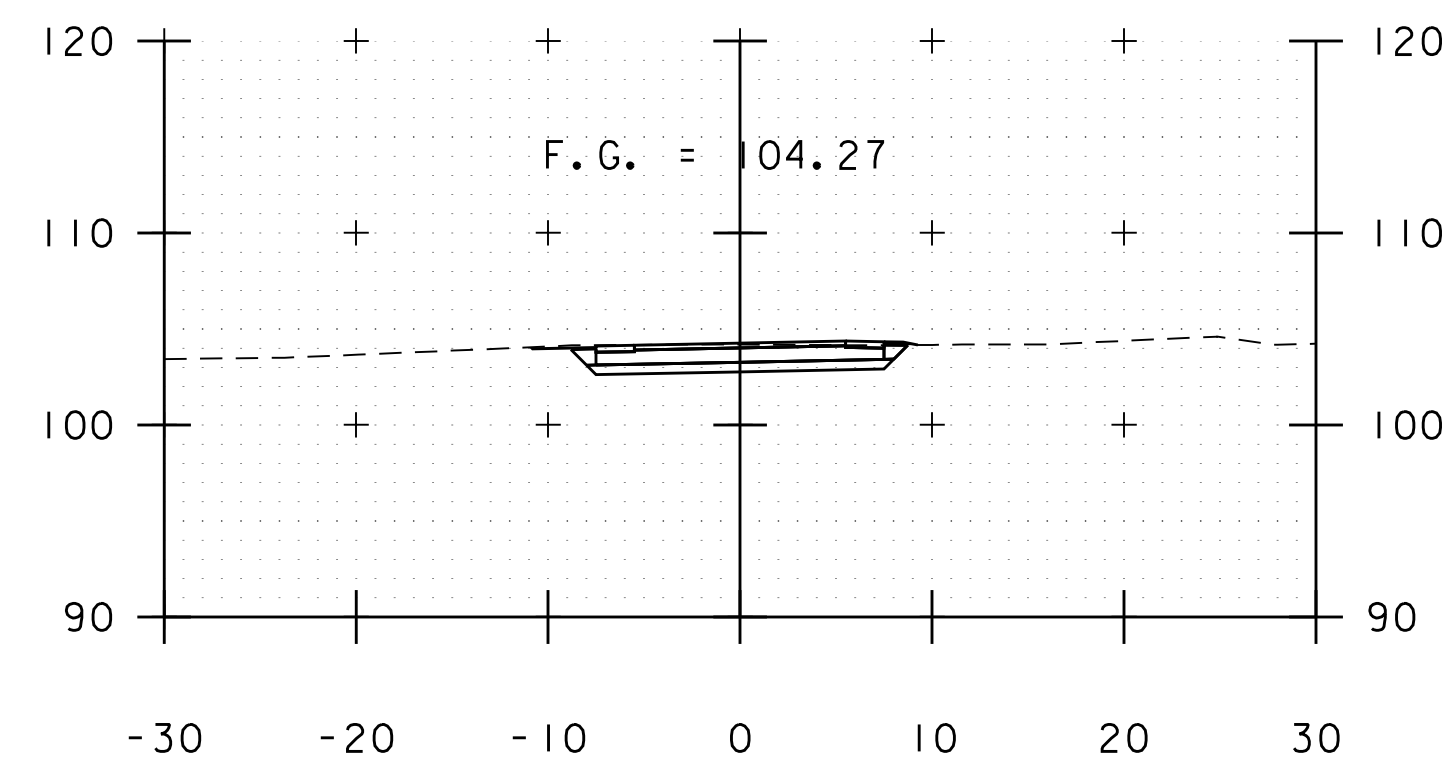
145+50



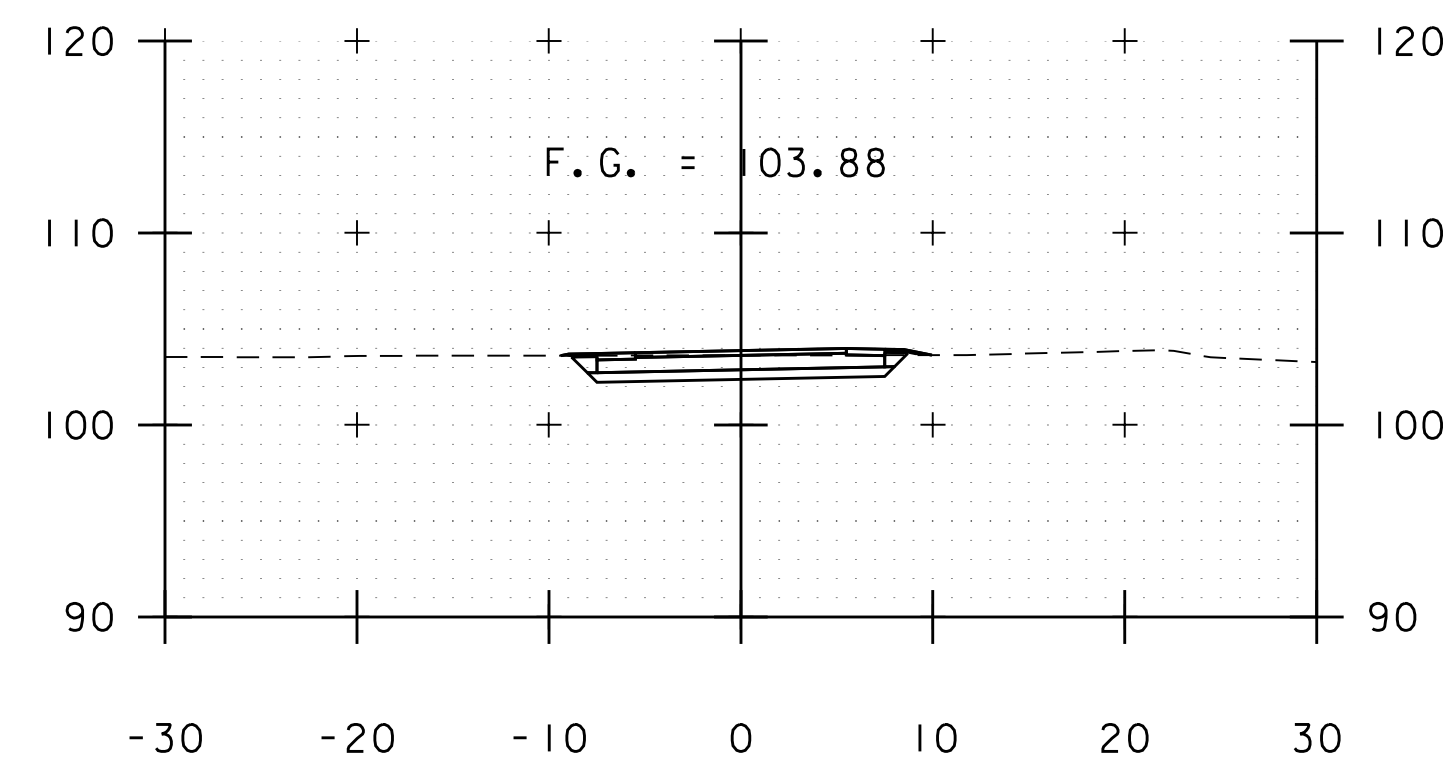
147+00



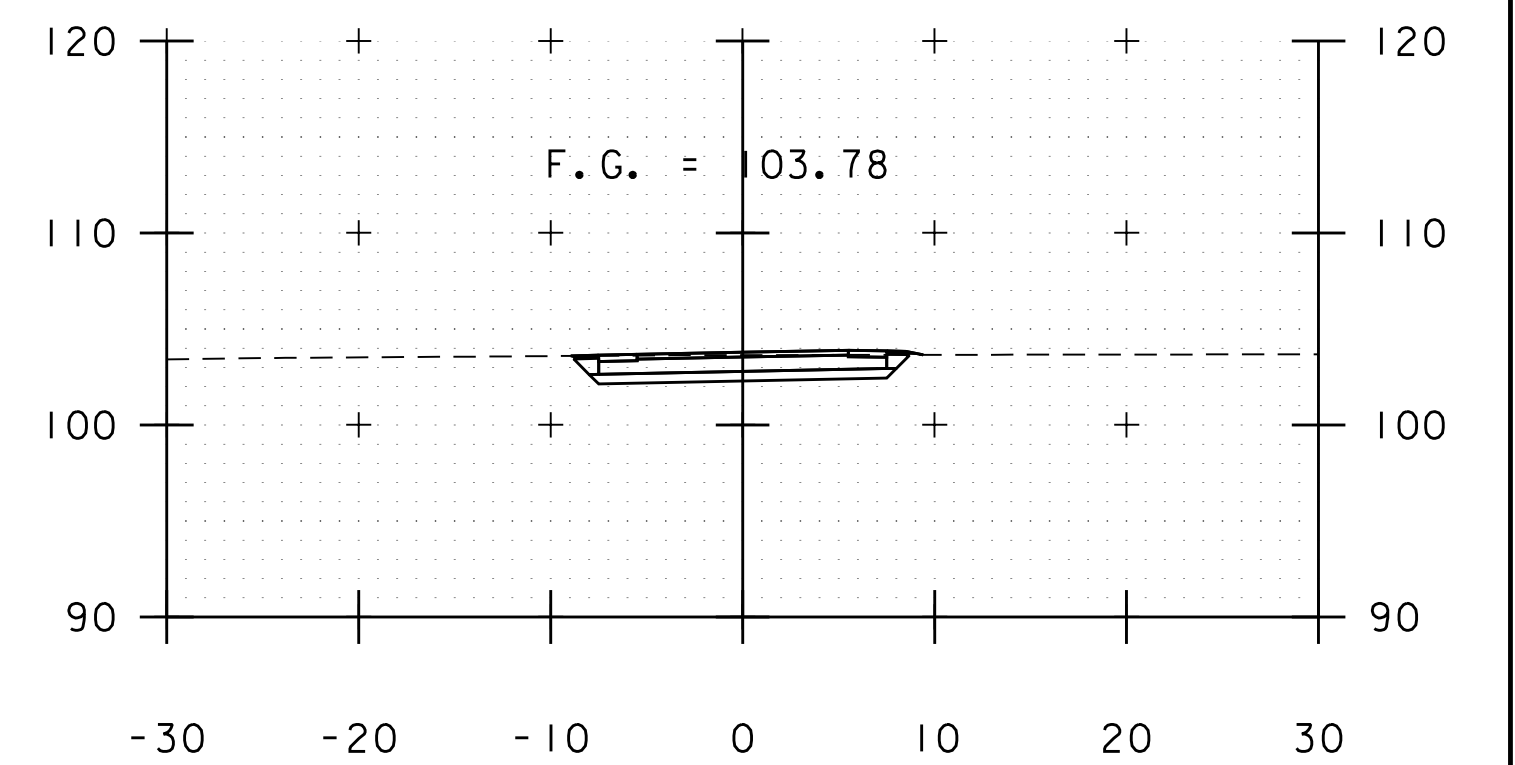
142+00



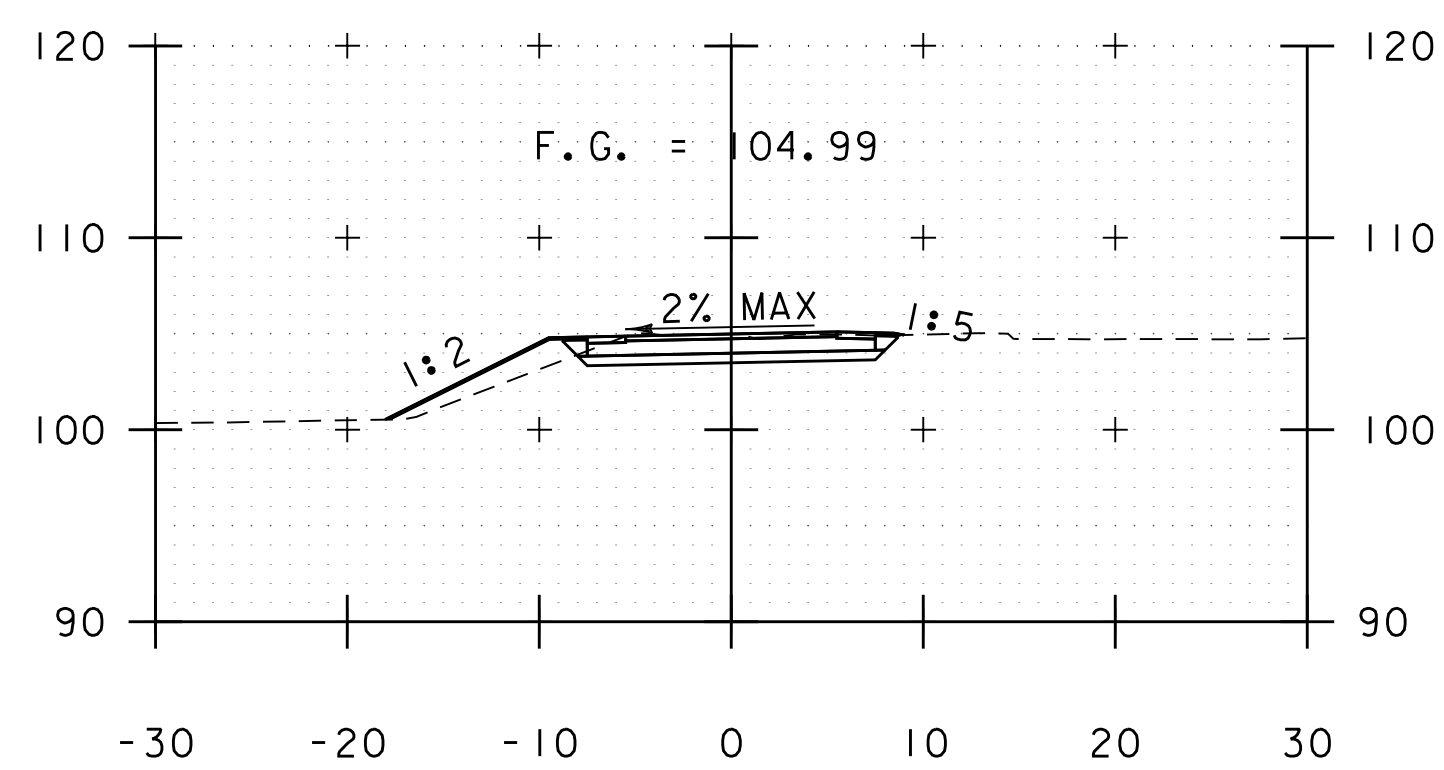
143+50



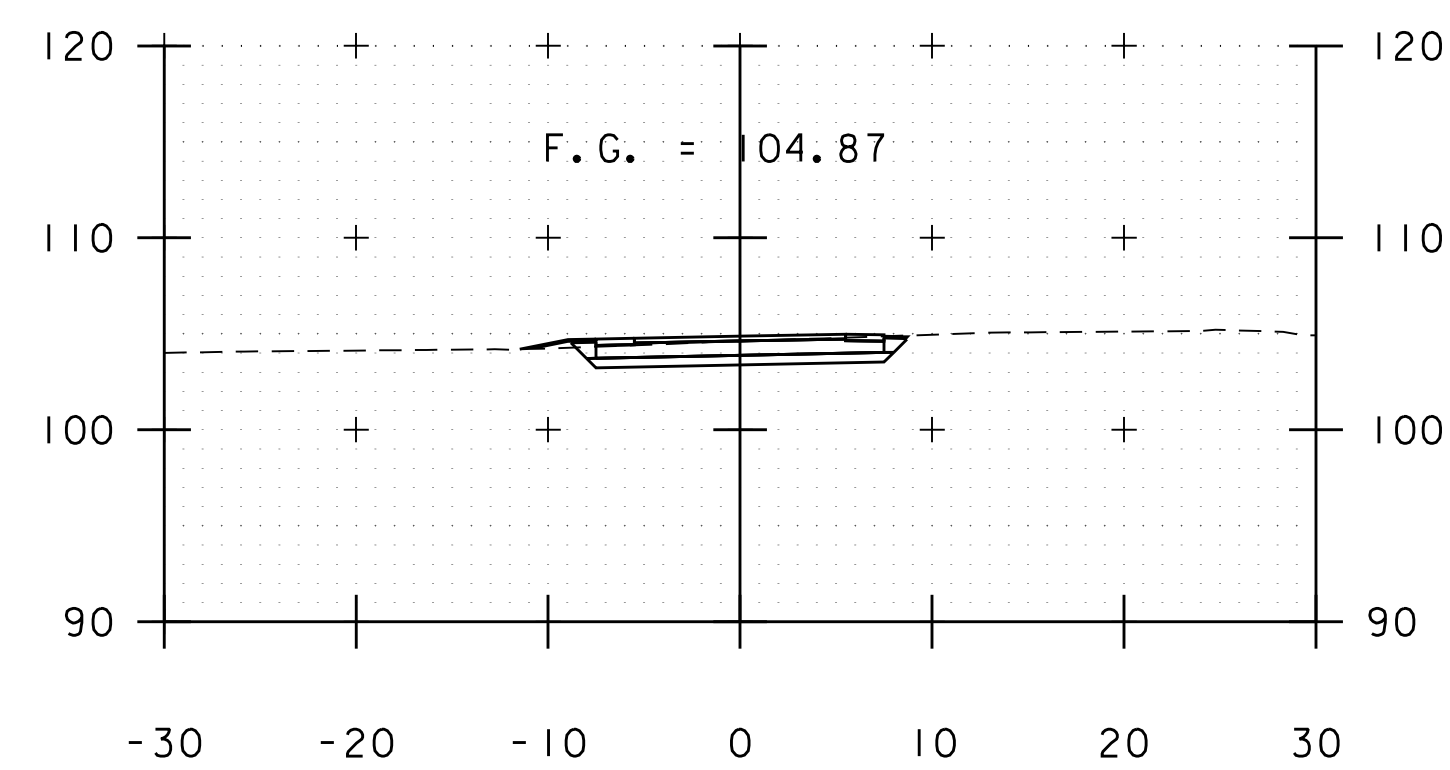
145+00



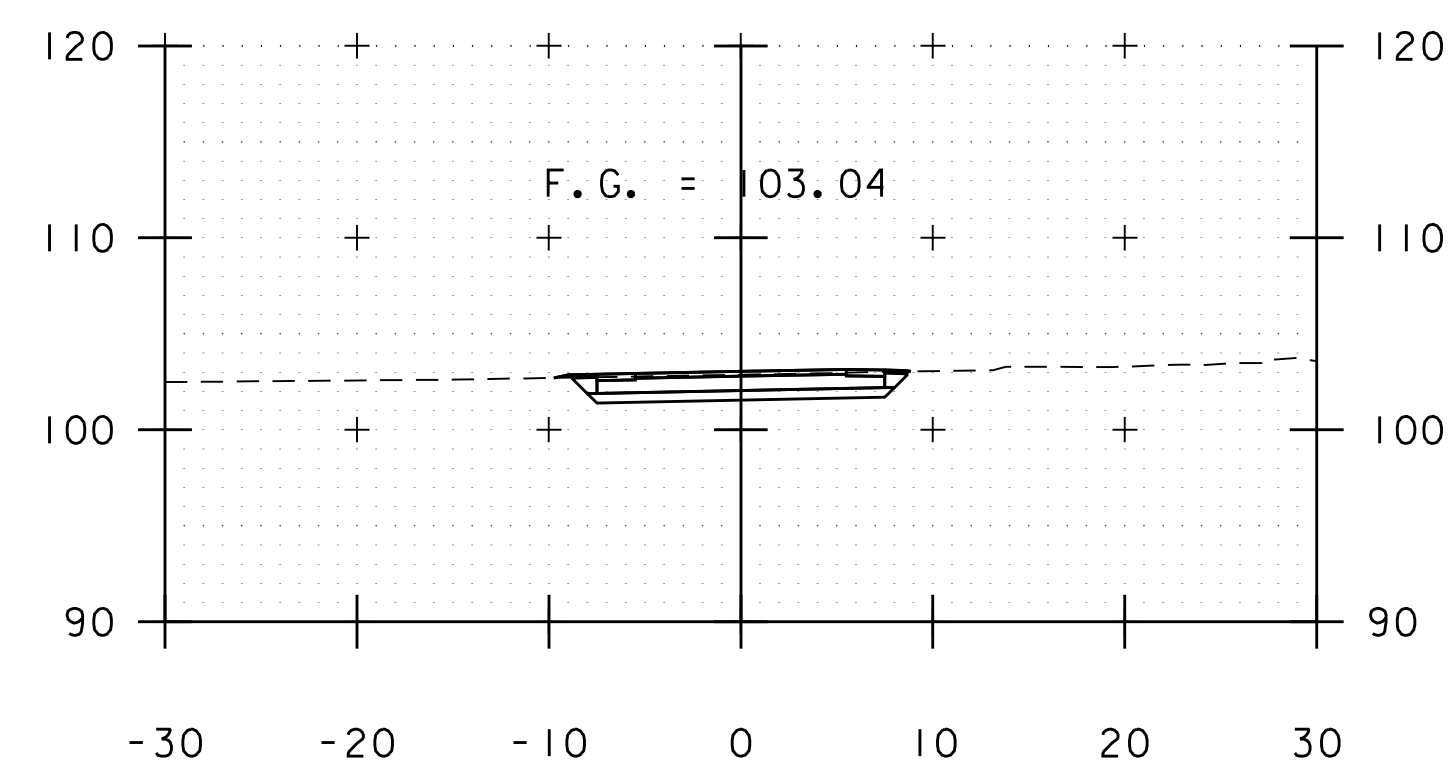
146+50



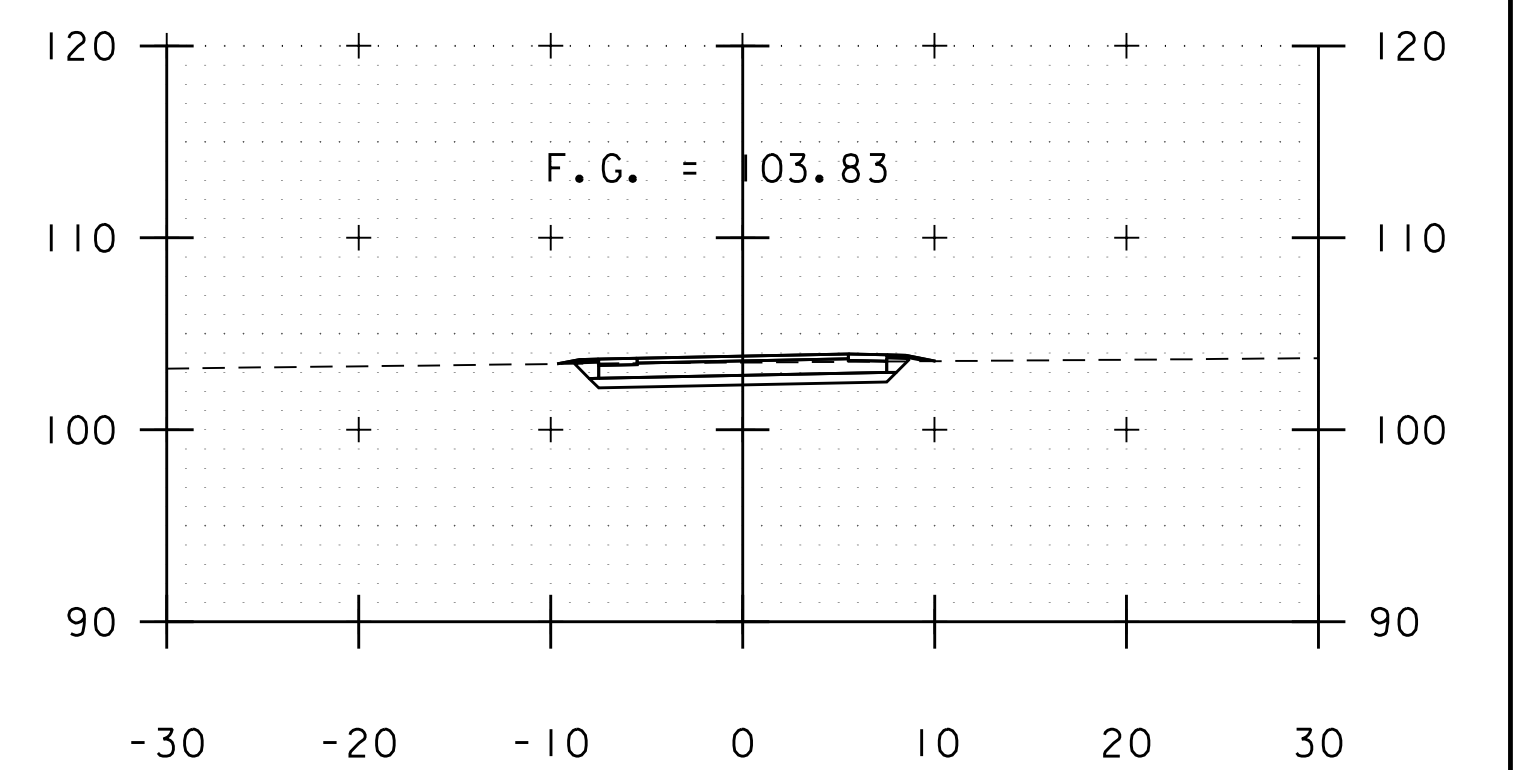
141+50



143+00



144+50



146+00

STA. 141+50 TO STA. 147+00

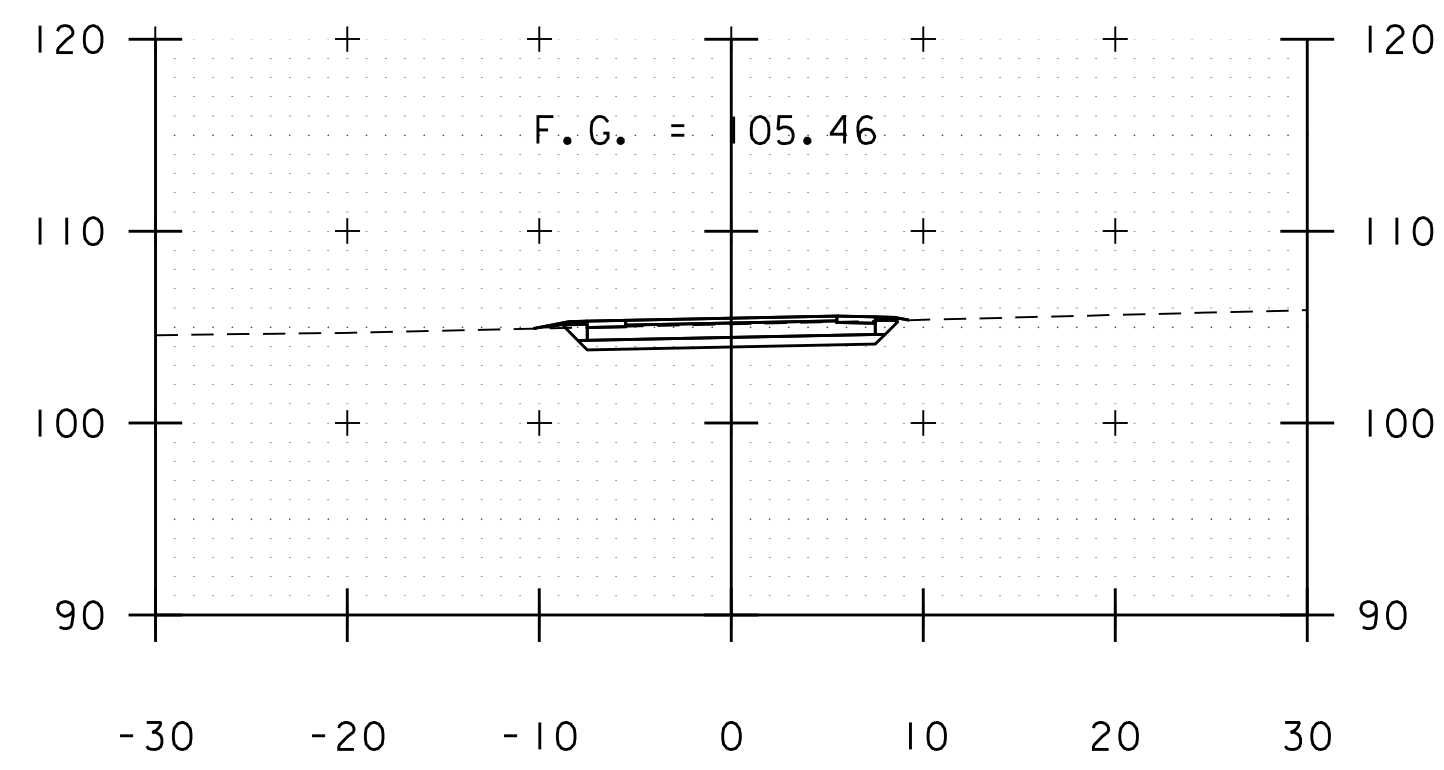


PROJECT NAME: BURLINGTON BIKE PATH  
PROJECT NUMBER: 57634.00

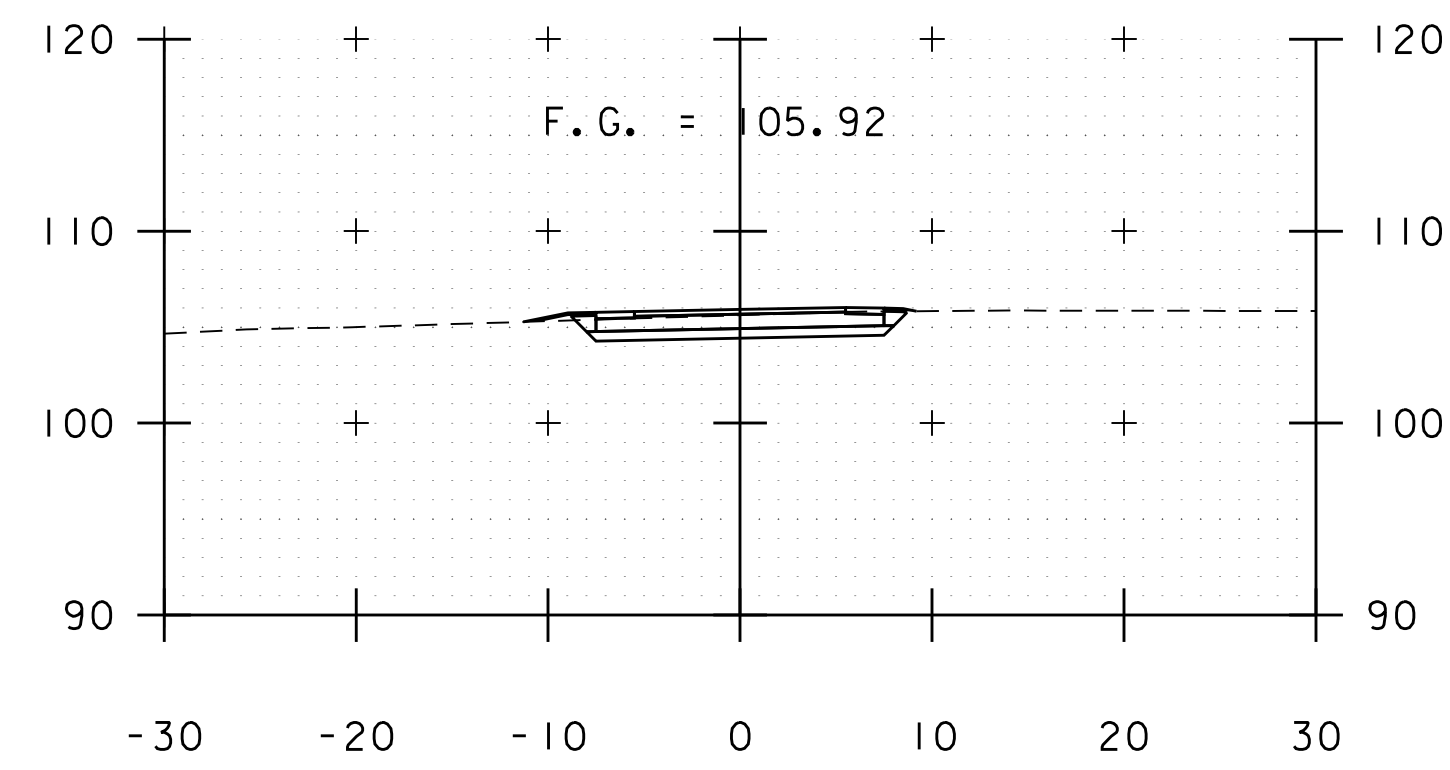
FILE NAME: z57634xs.dgn  
PROJECT LEADER: M.A. COLGAN  
DESIGNED BY: D.M. PECK  
PATH CROSS SECTIONS (2 OF 18)

PLOT DATE: 3/23/2016  
DRAWN BY: P.A. MILLER  
CHECKED BY: M.A. COLGAN  
SHEET 59 OF 119

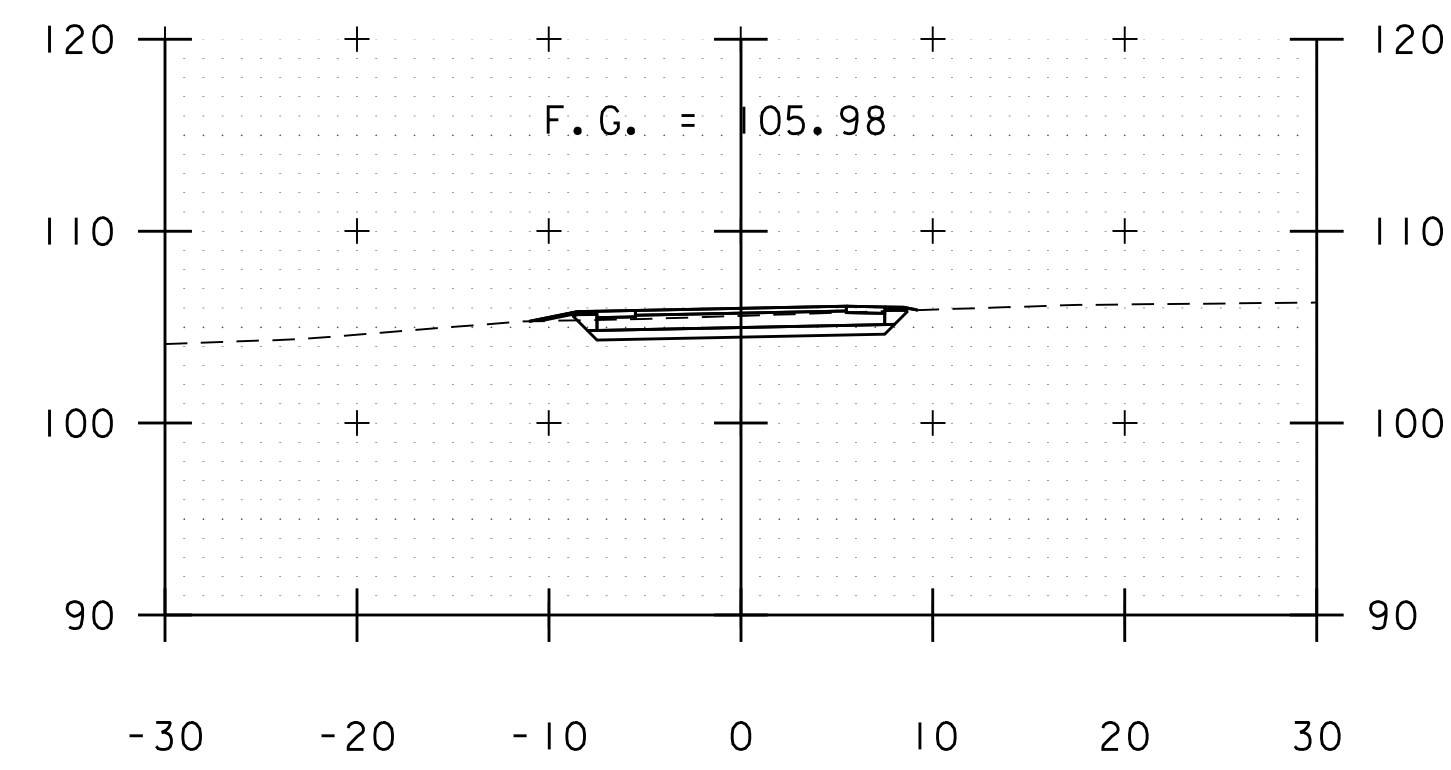




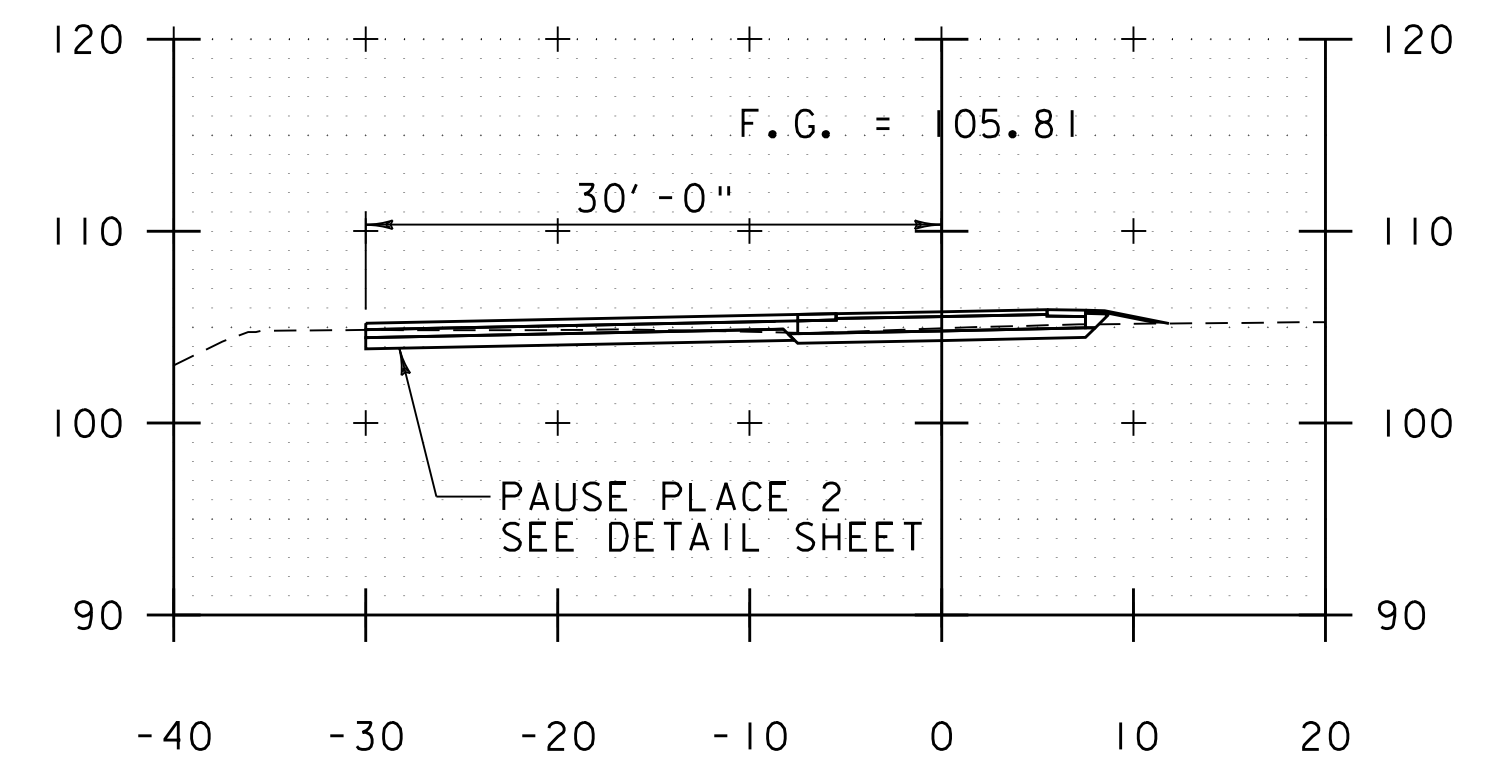
148+50



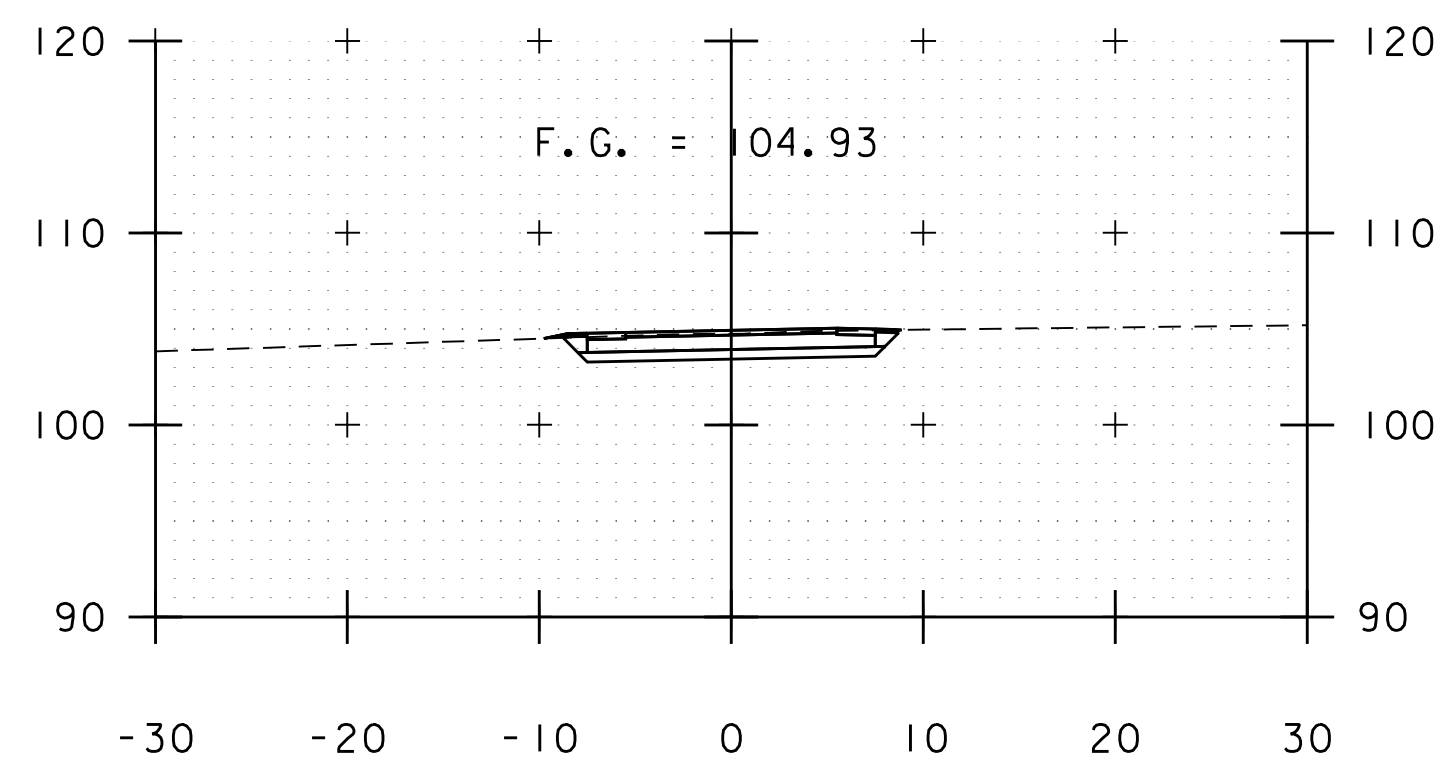
150+00



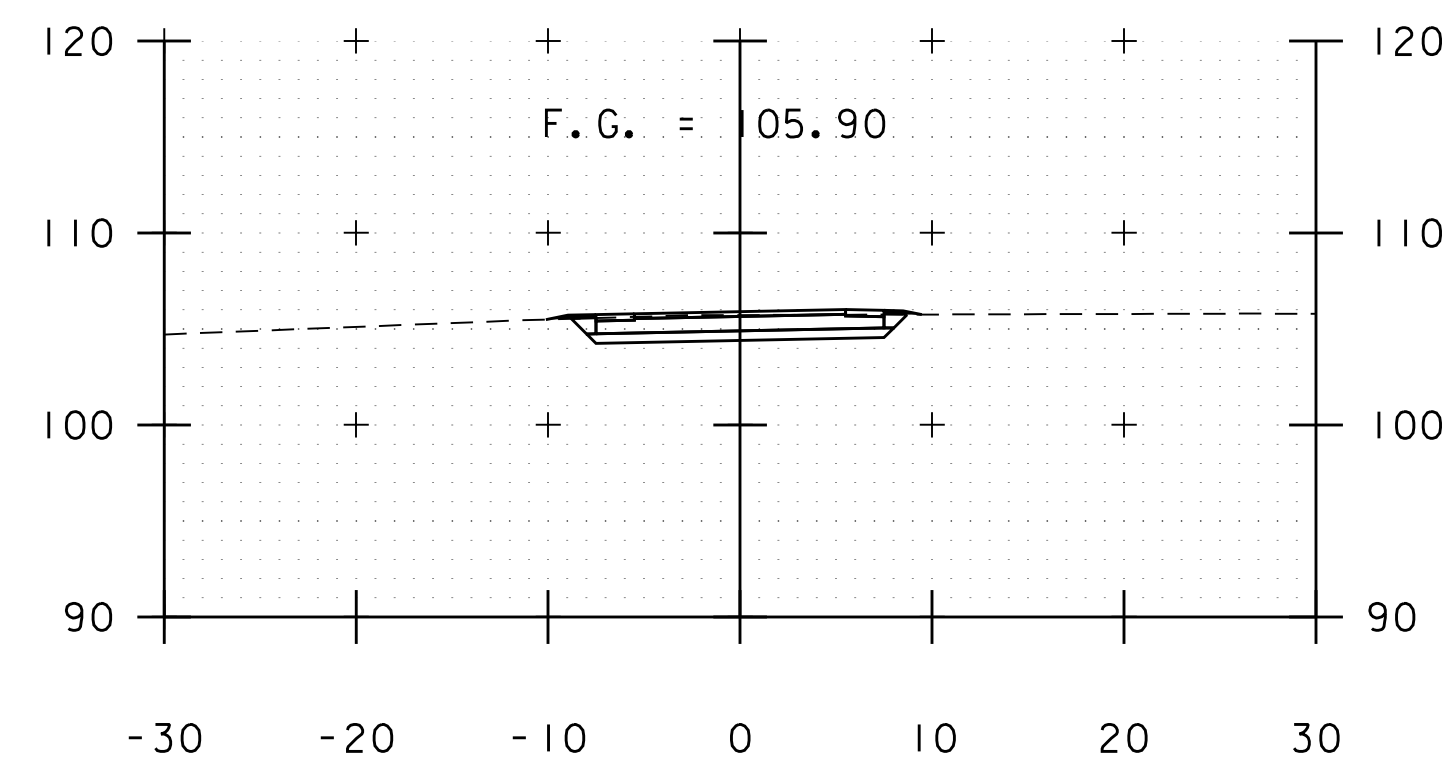
151+50



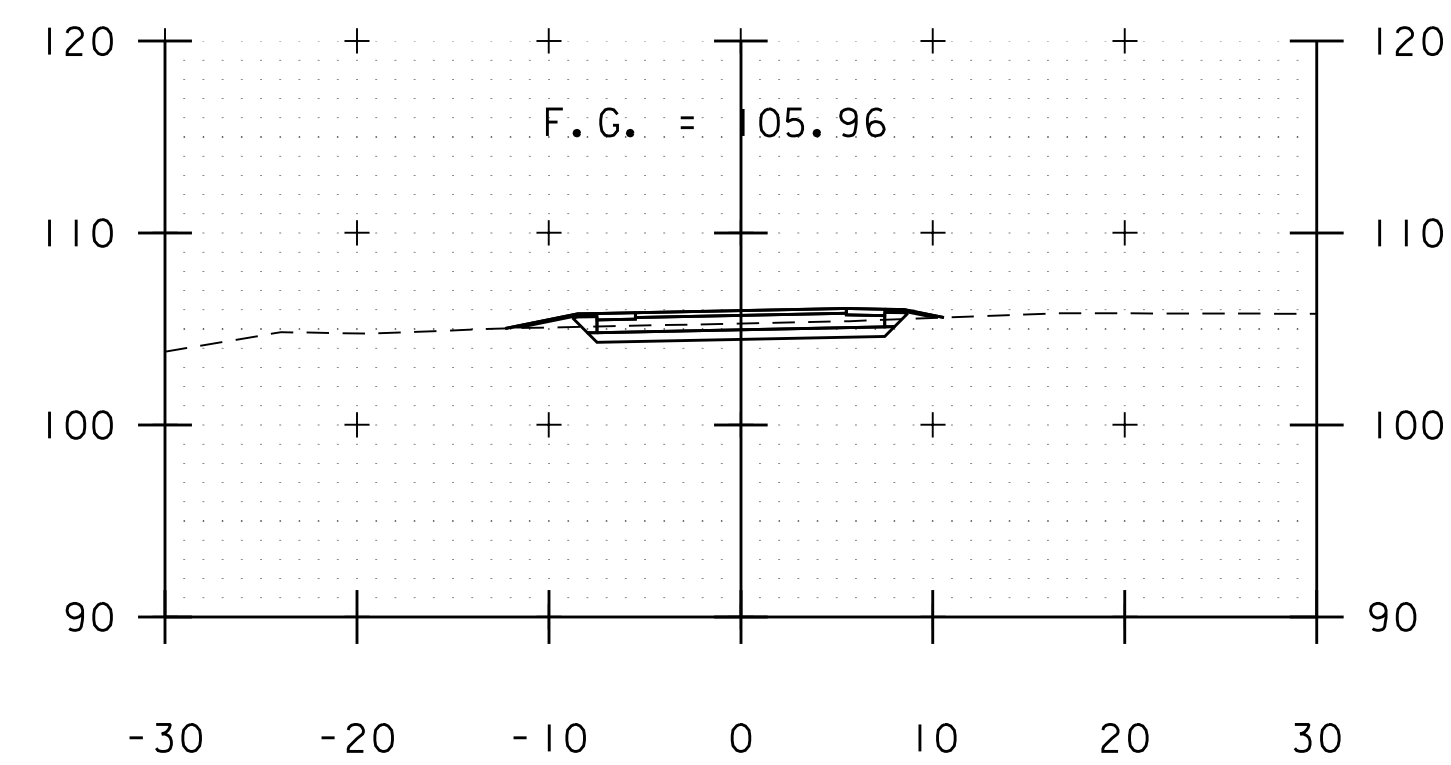
BEGIN PAUSE PLACE 2  
STA. 152+73, LT 153+00



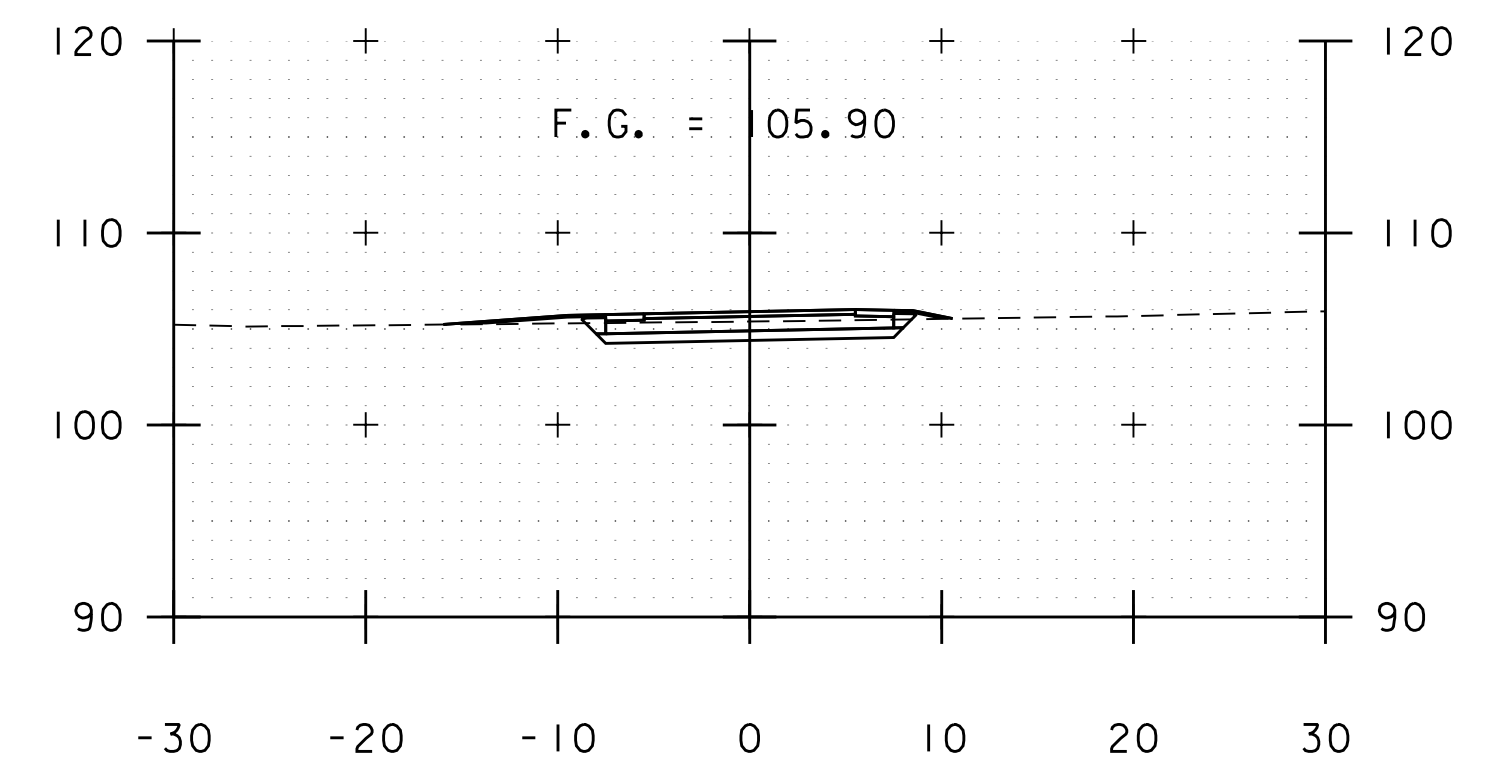
148+00



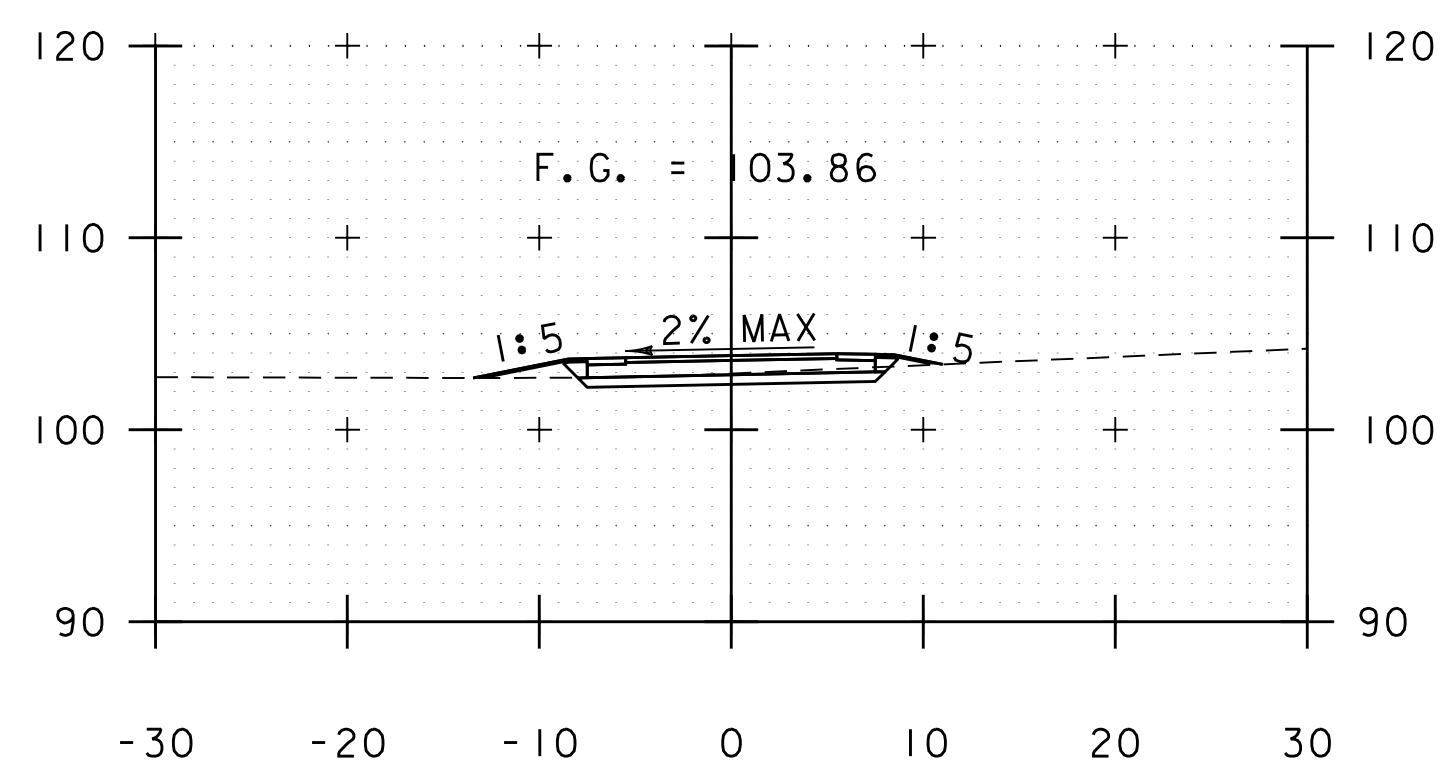
149+50



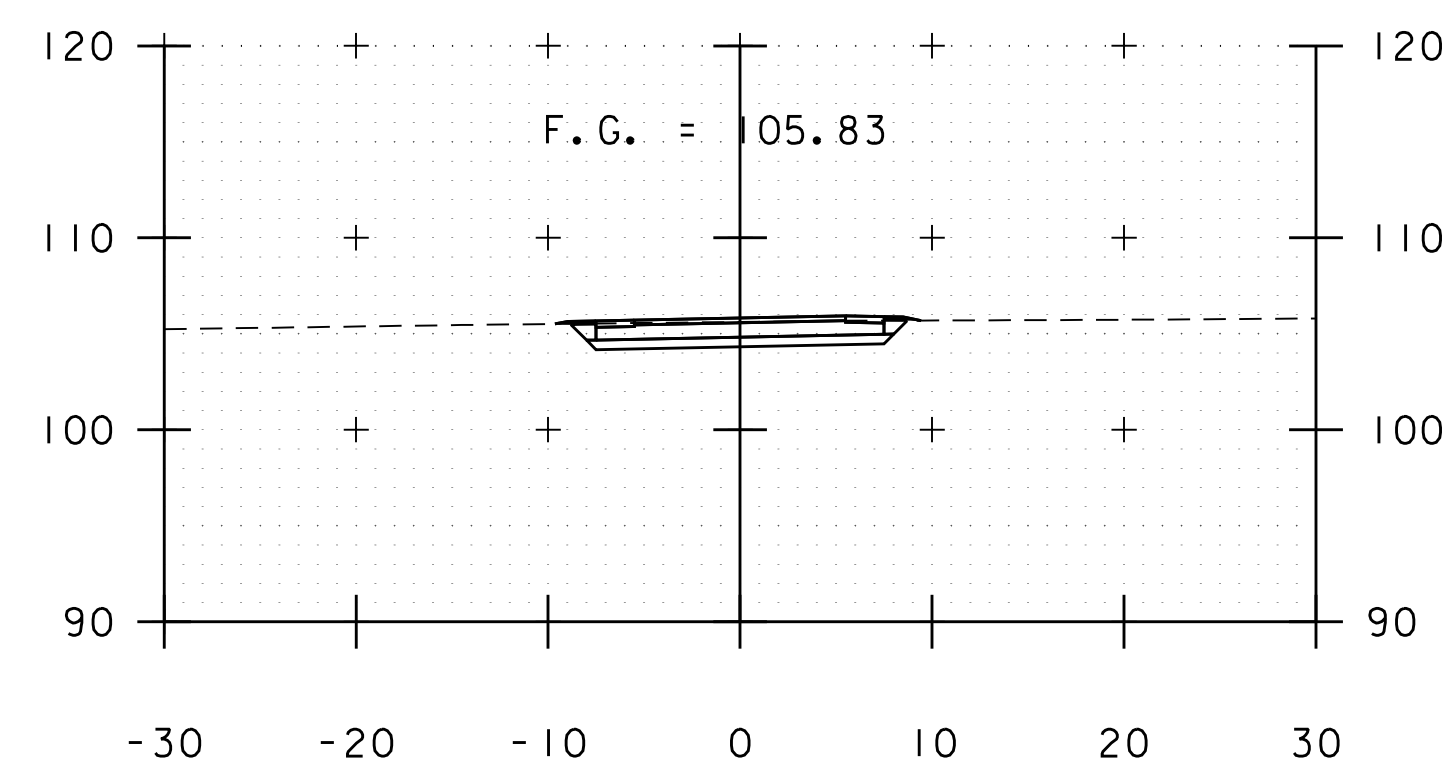
151+00



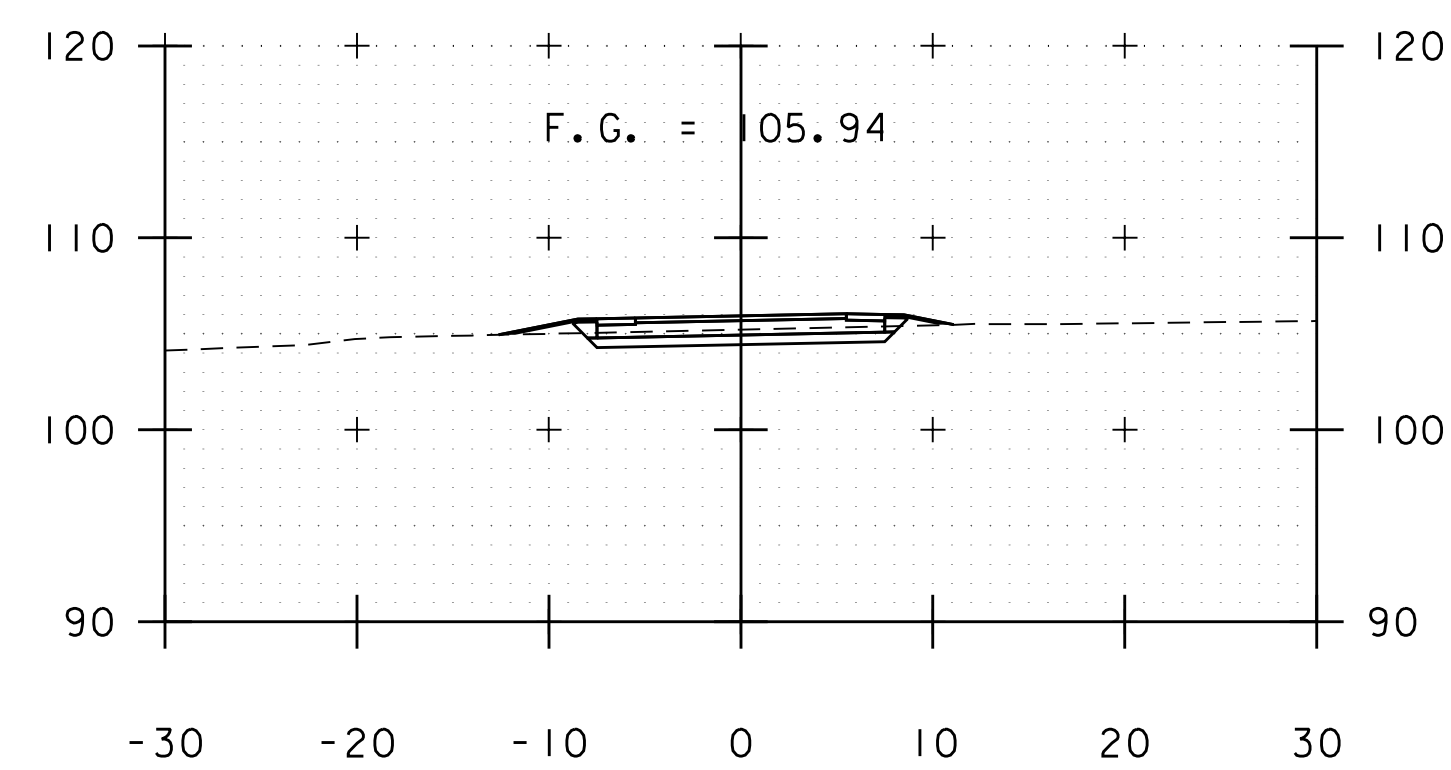
152+50



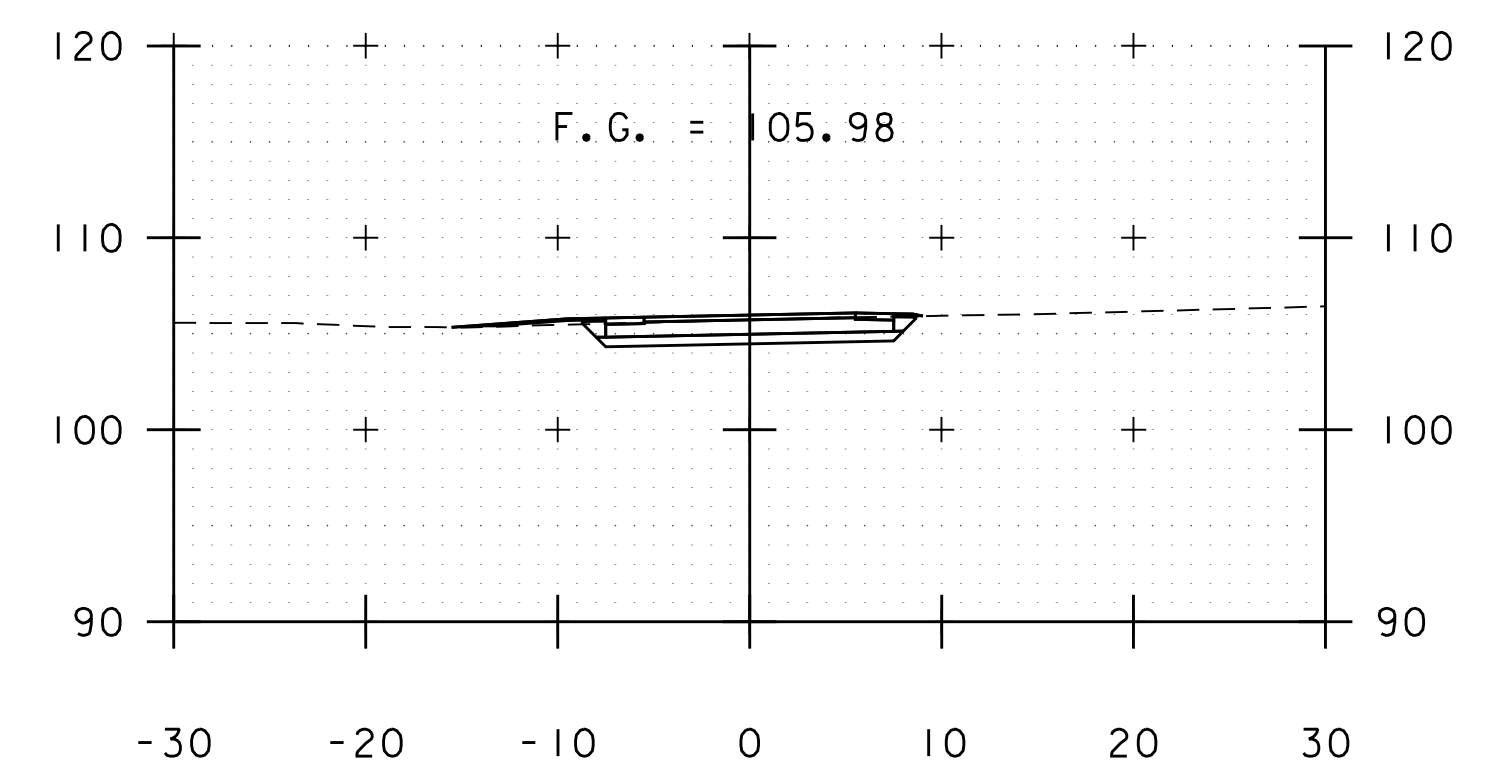
147+50



149+00



150+50



152+00

STA. 147+50 TO STA. 153+00

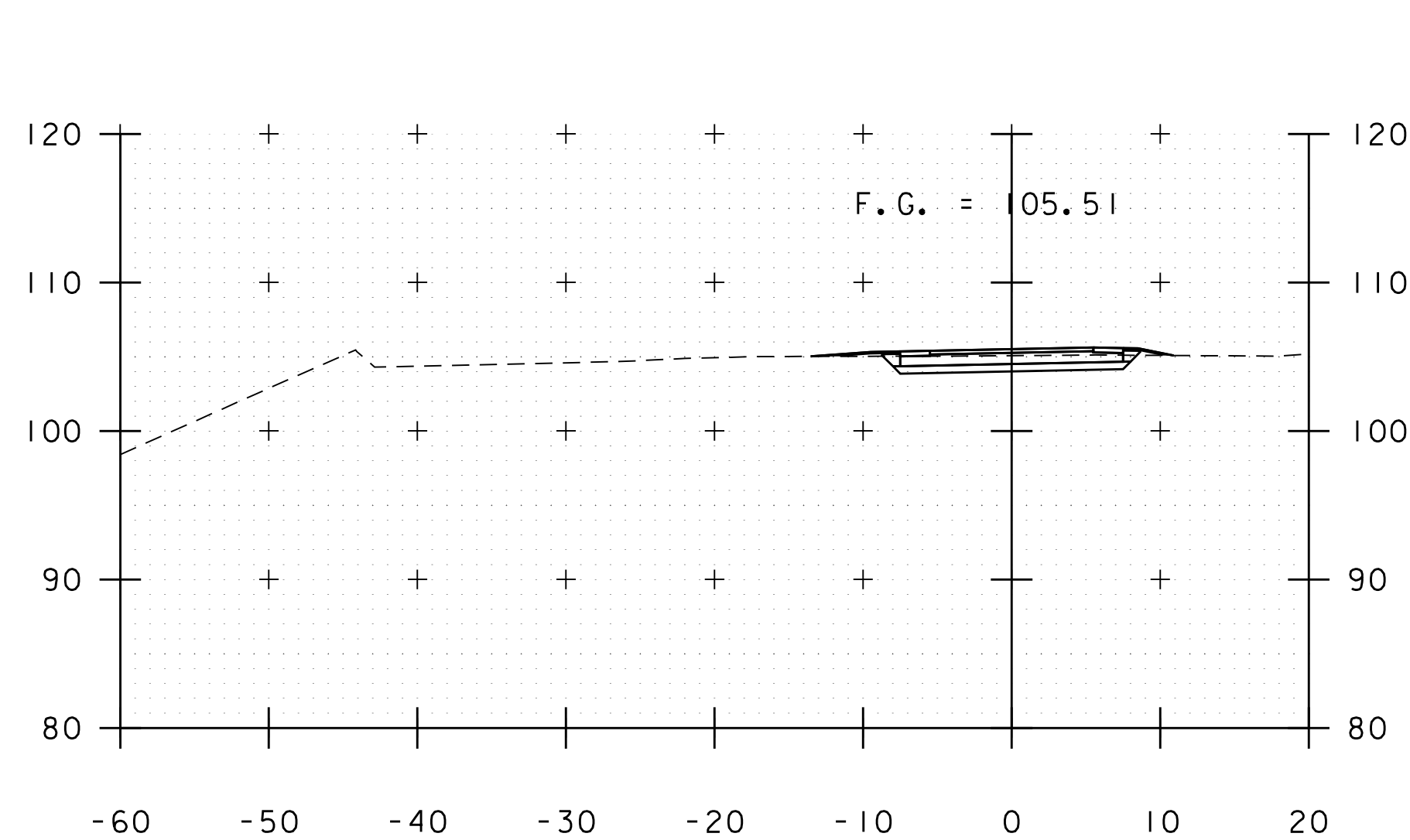


PROJECT NAME: BURLINGTON BIKE PATH  
PROJECT NUMBER: 57634.00

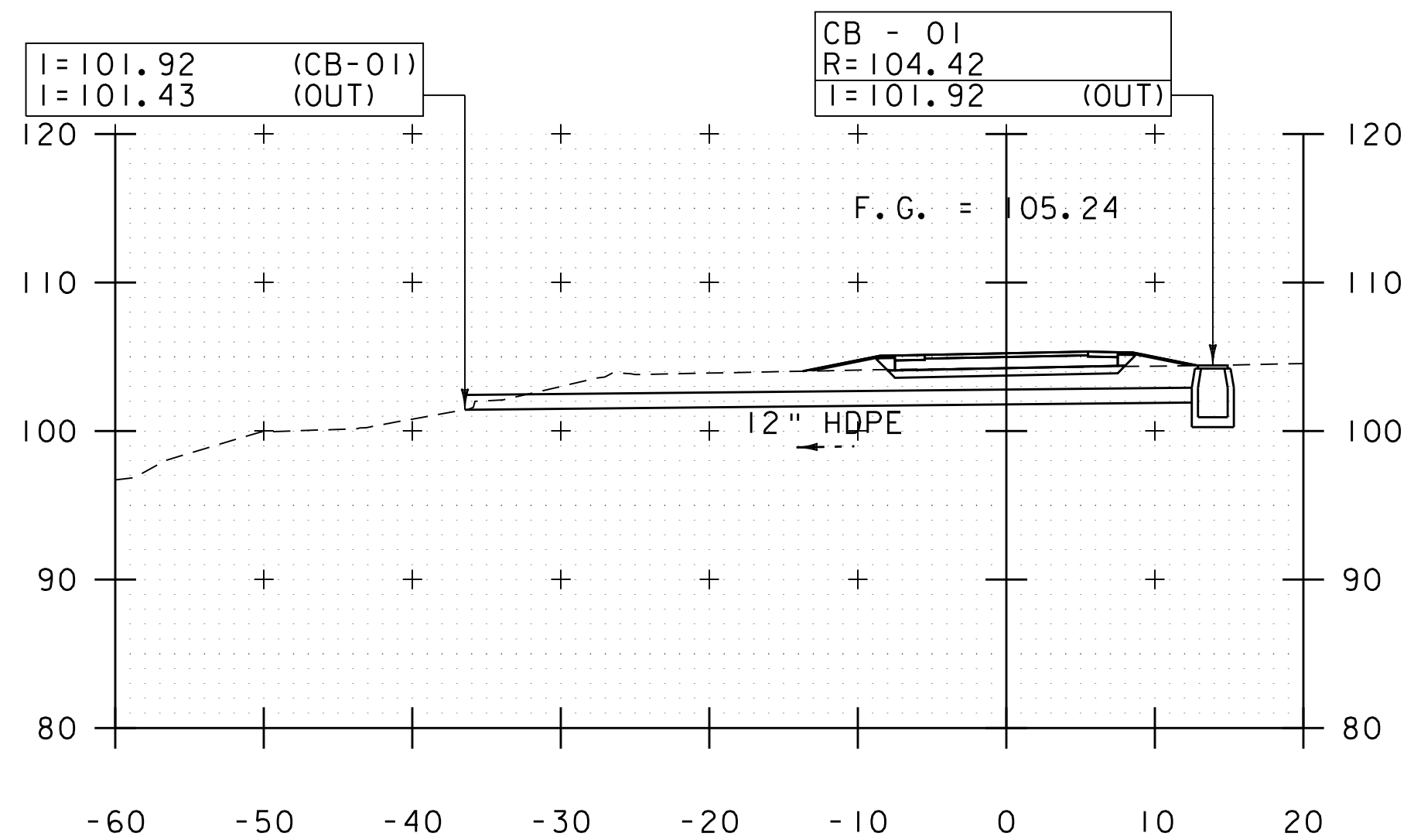
FILE NAME: z57634xs.dgn  
PROJECT LEADER: M.A. COLGAN  
DESIGNED BY: D.M. PECK  
PATH CROSS SECTIONS (3 OF 18)

PLOT DATE: 3/23/2016  
DRAWN BY: P.A. MILLER  
CHECKED BY: M.A. COLGAN  
SHEET 60 OF 119

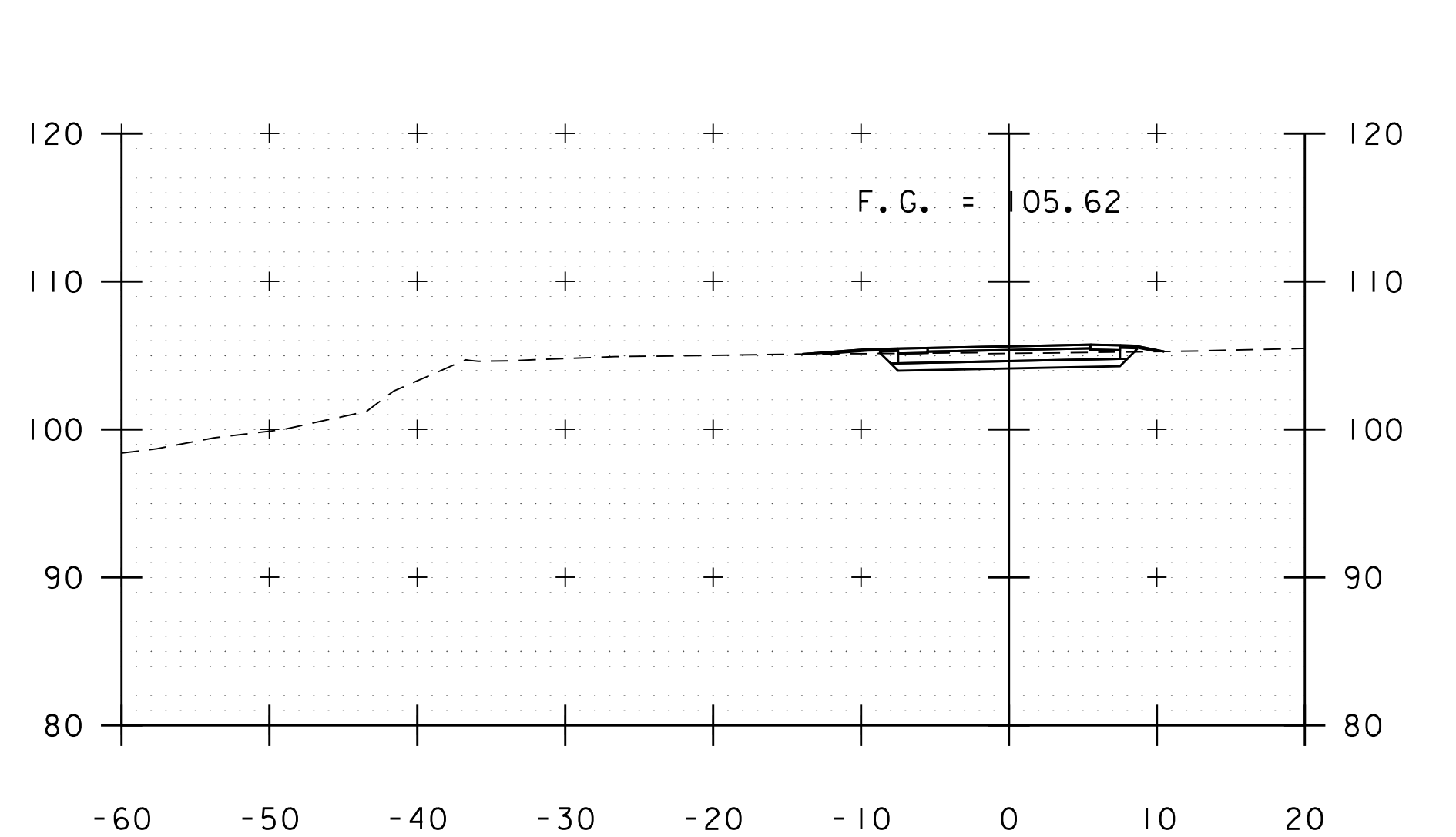




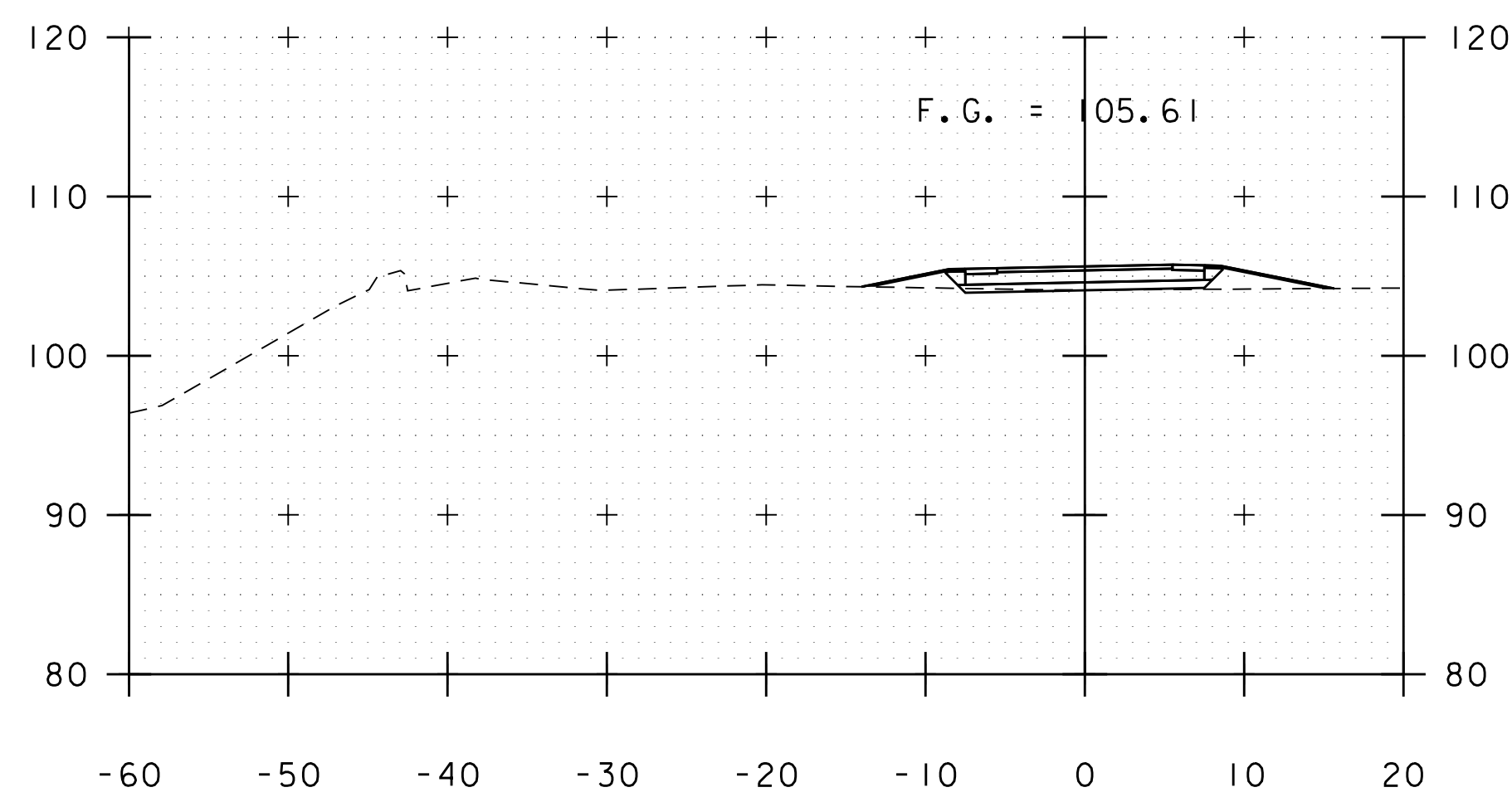
154+50



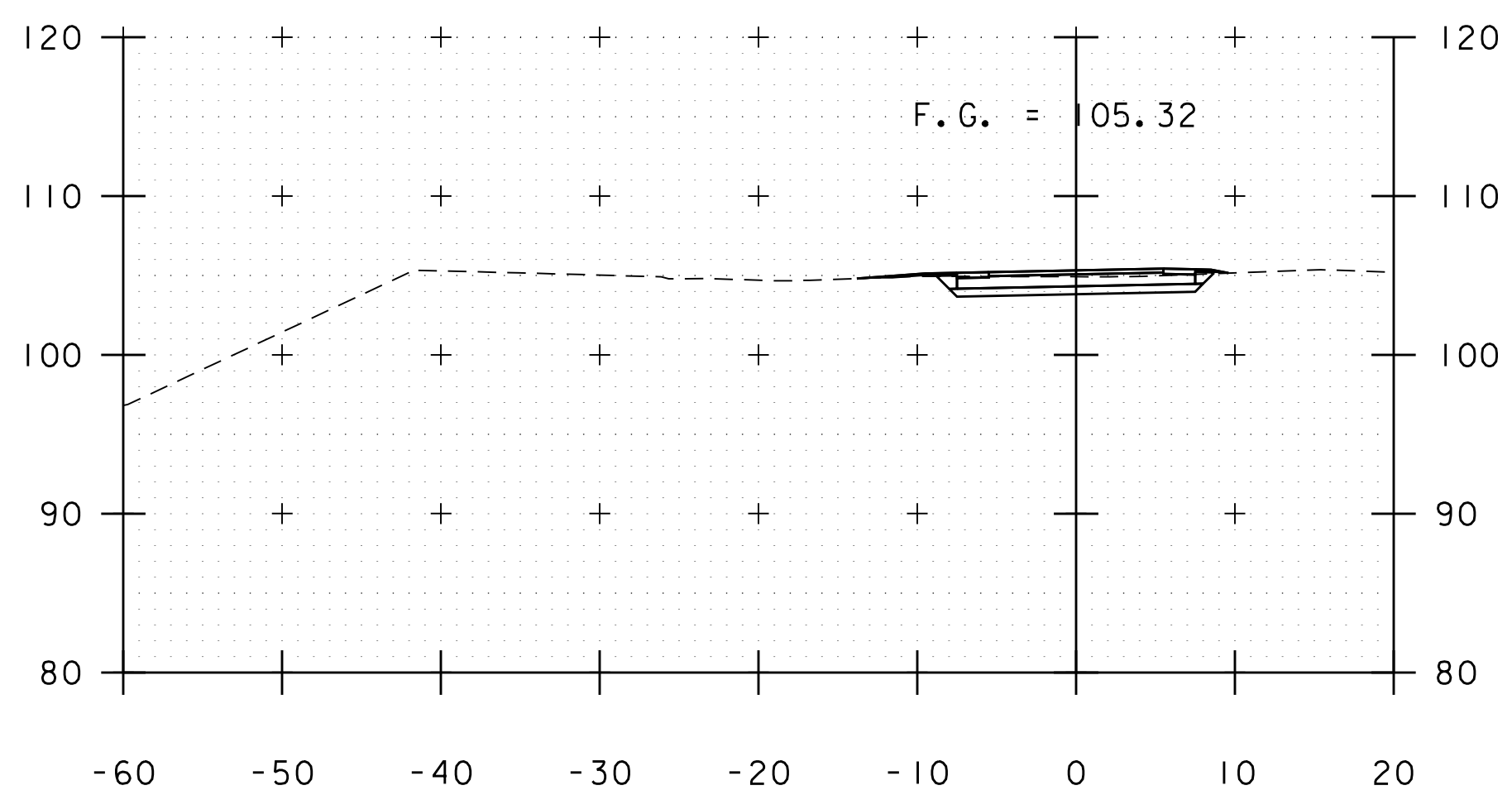
156+00



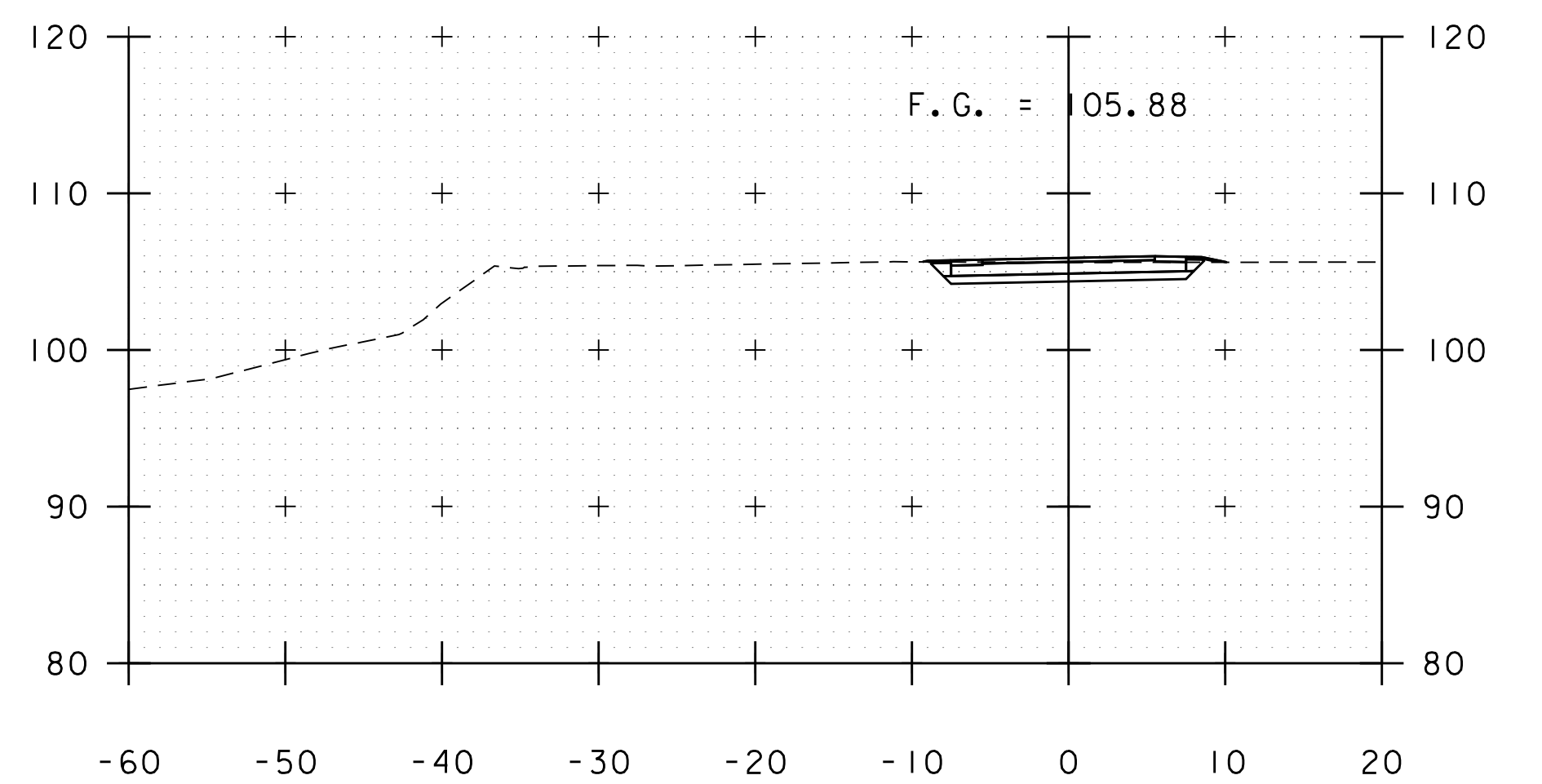
157+50



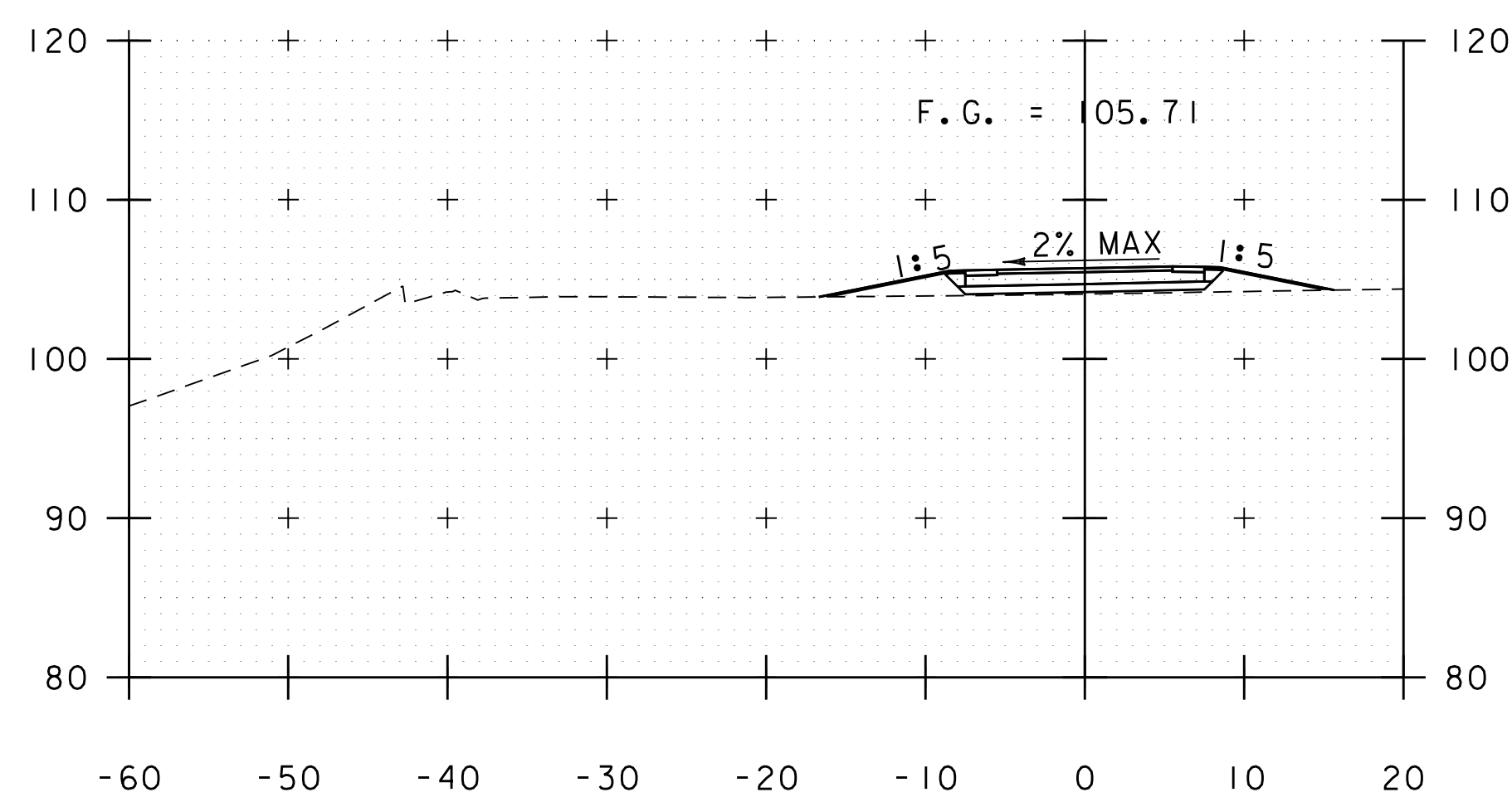
154+00



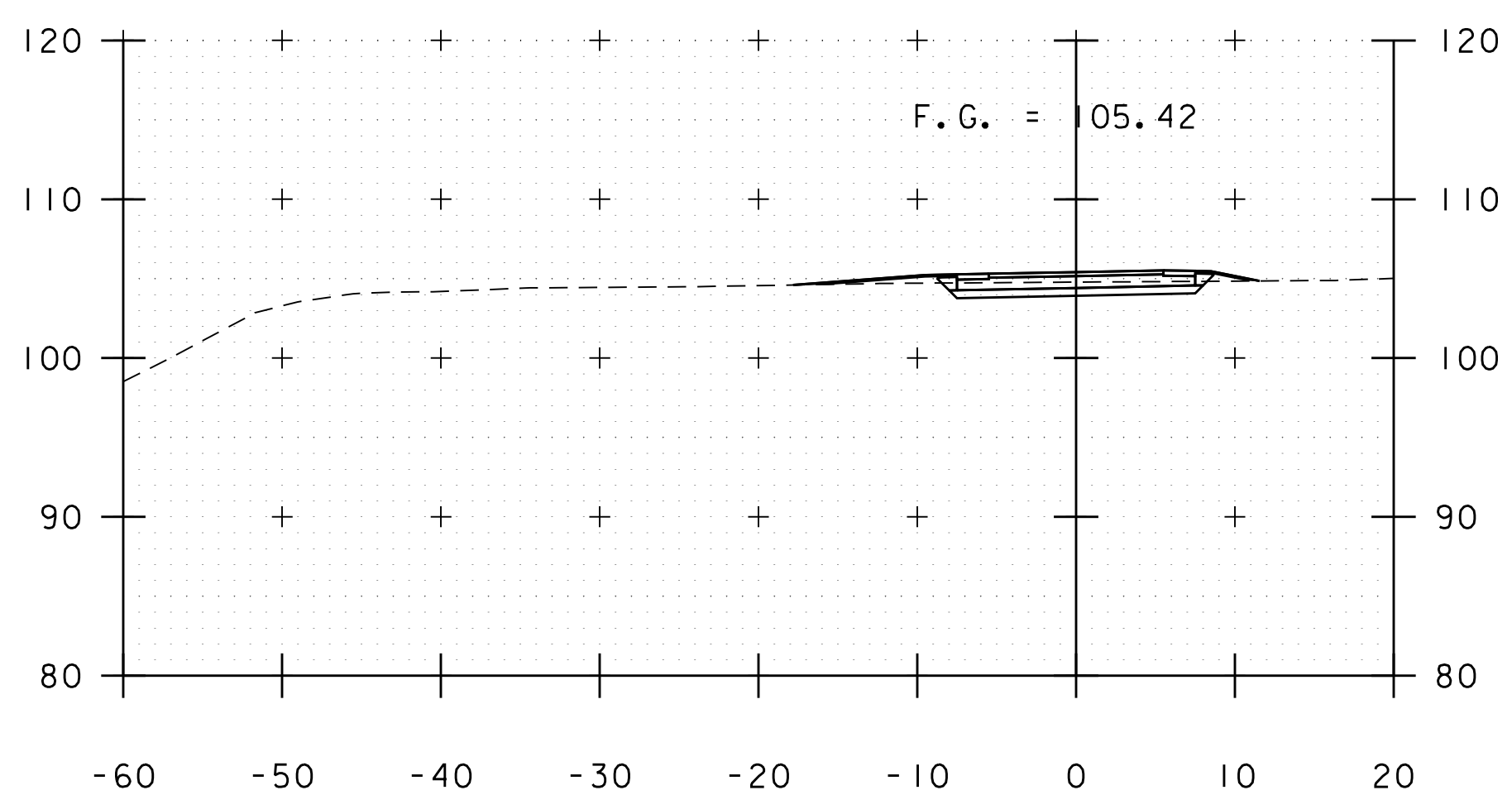
155+50



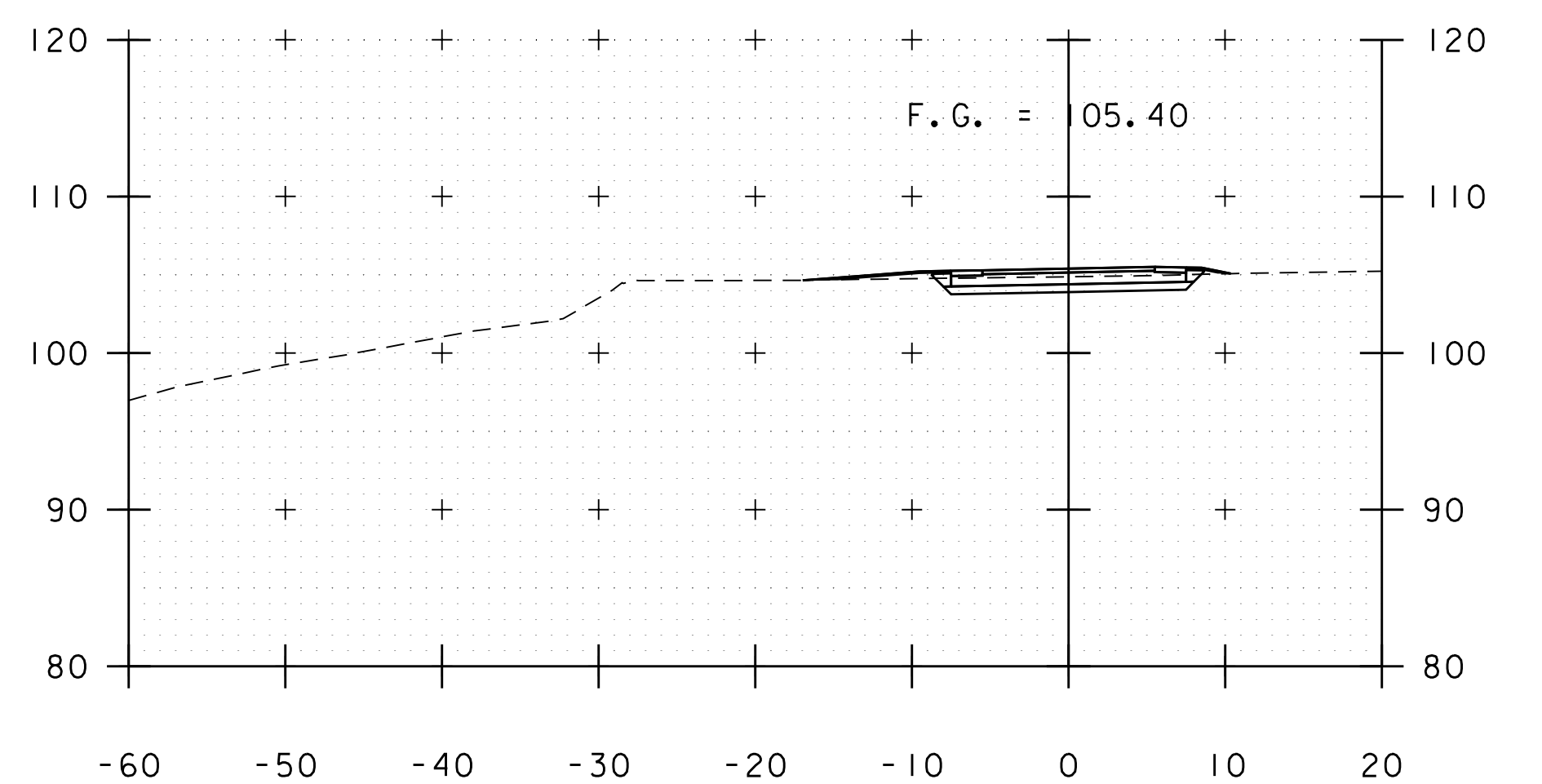
157+00



153+50



155+00



156+50

STA. 153+50 TO STA. 157+50



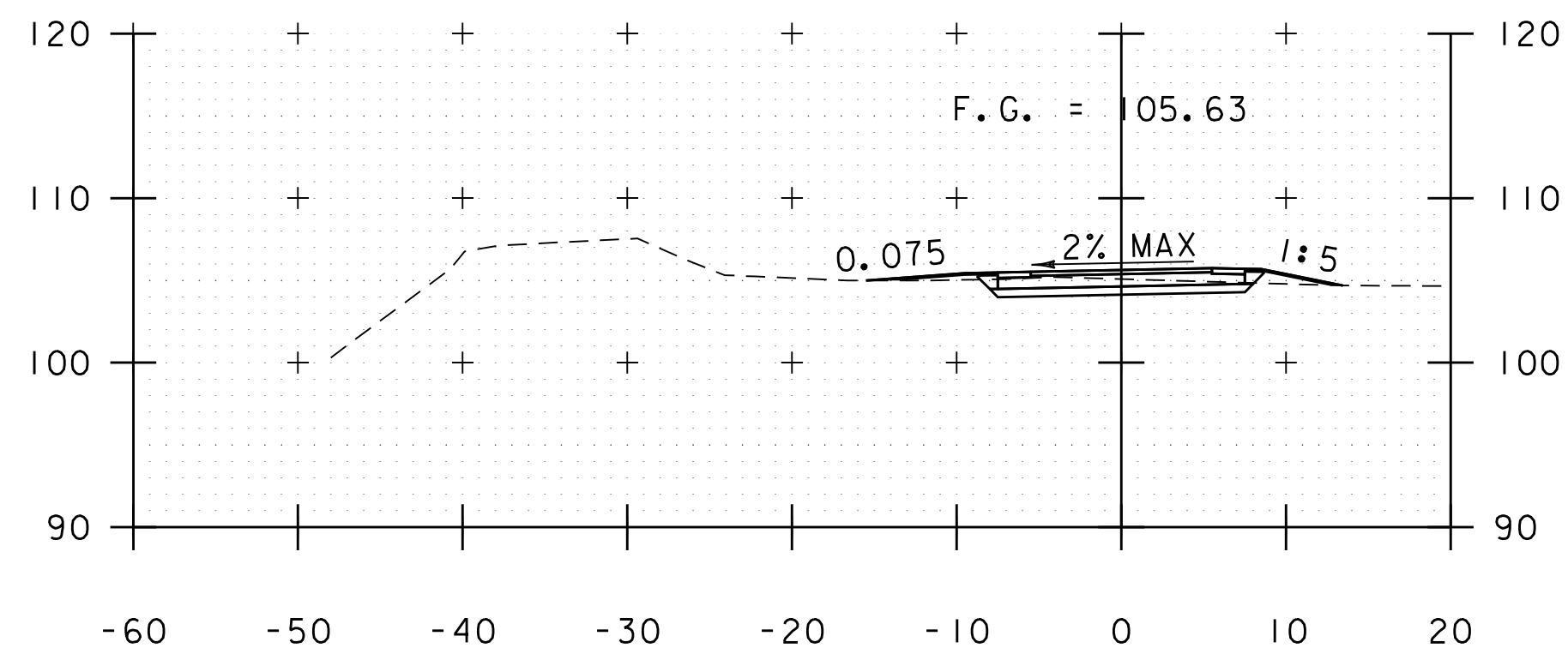
PROJECT NAME: BURLINGTON BIKE PATH  
PROJECT NUMBER: 57634.00

FILE NAME: z57634xs.dgn  
PROJECT LEADER: M.A. COLGAN  
DESIGNED BY: D.M. PECK  
PATH CROSS SECTIONS (4 OF 18)

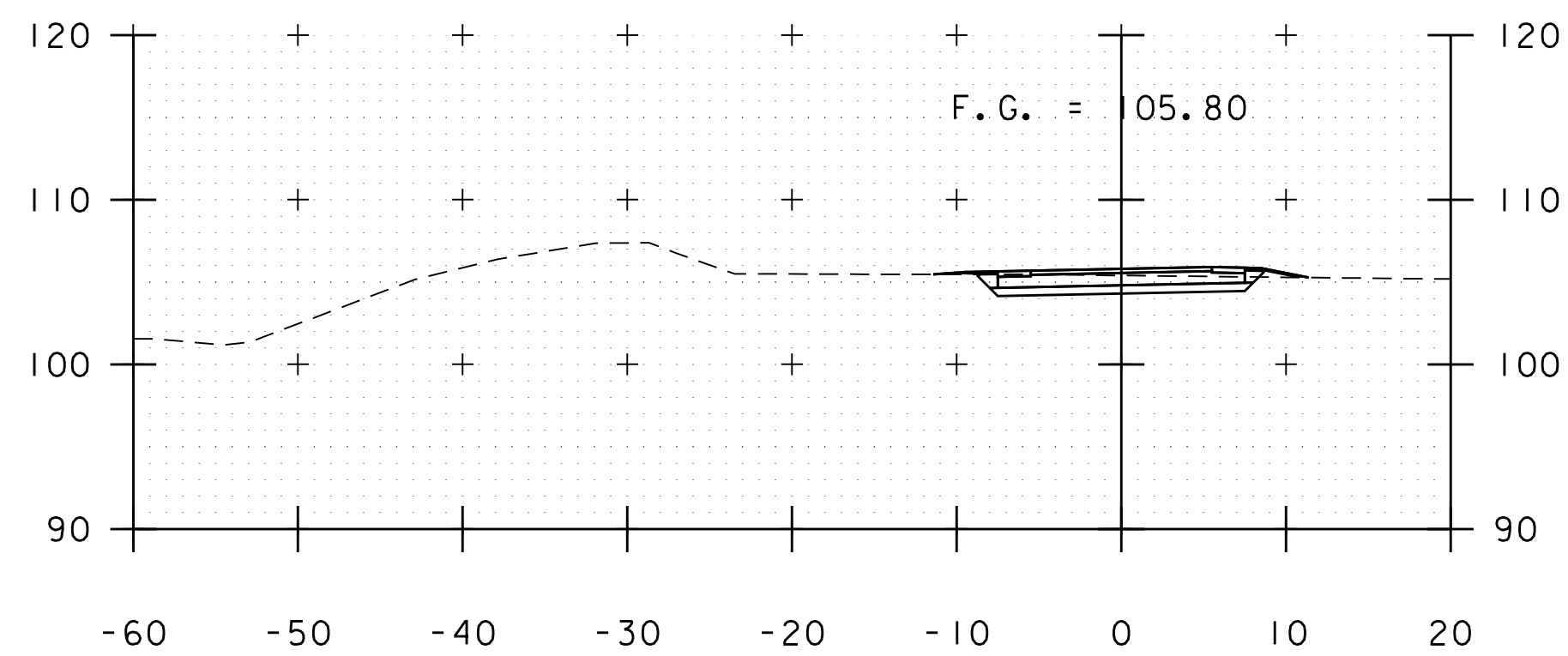
PLOT DATE: 3/23/2016  
DRAWN BY: P.A. MILLER  
CHECKED BY: M.A. COLGAN  
SHEET 61 OF 119

VHB 57634.00

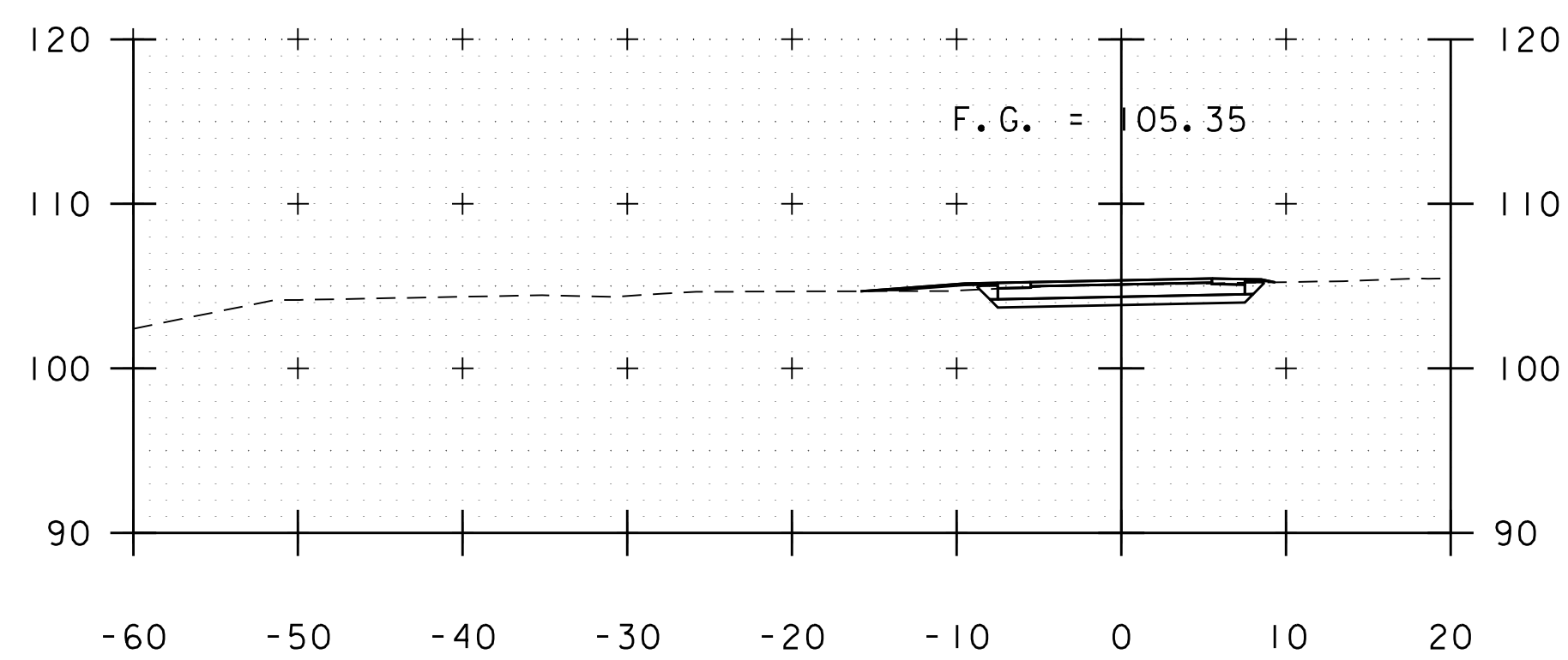




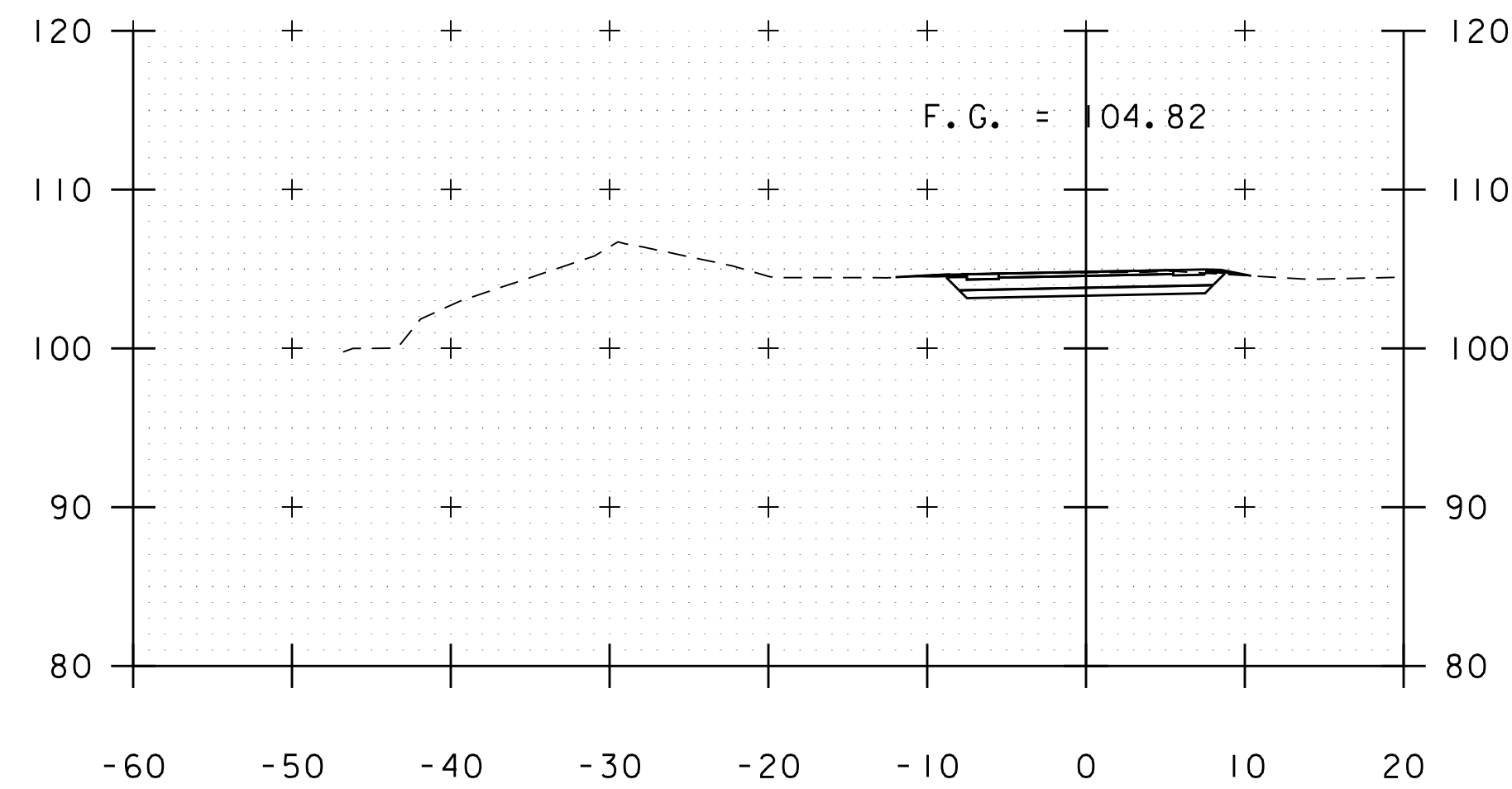
159+00



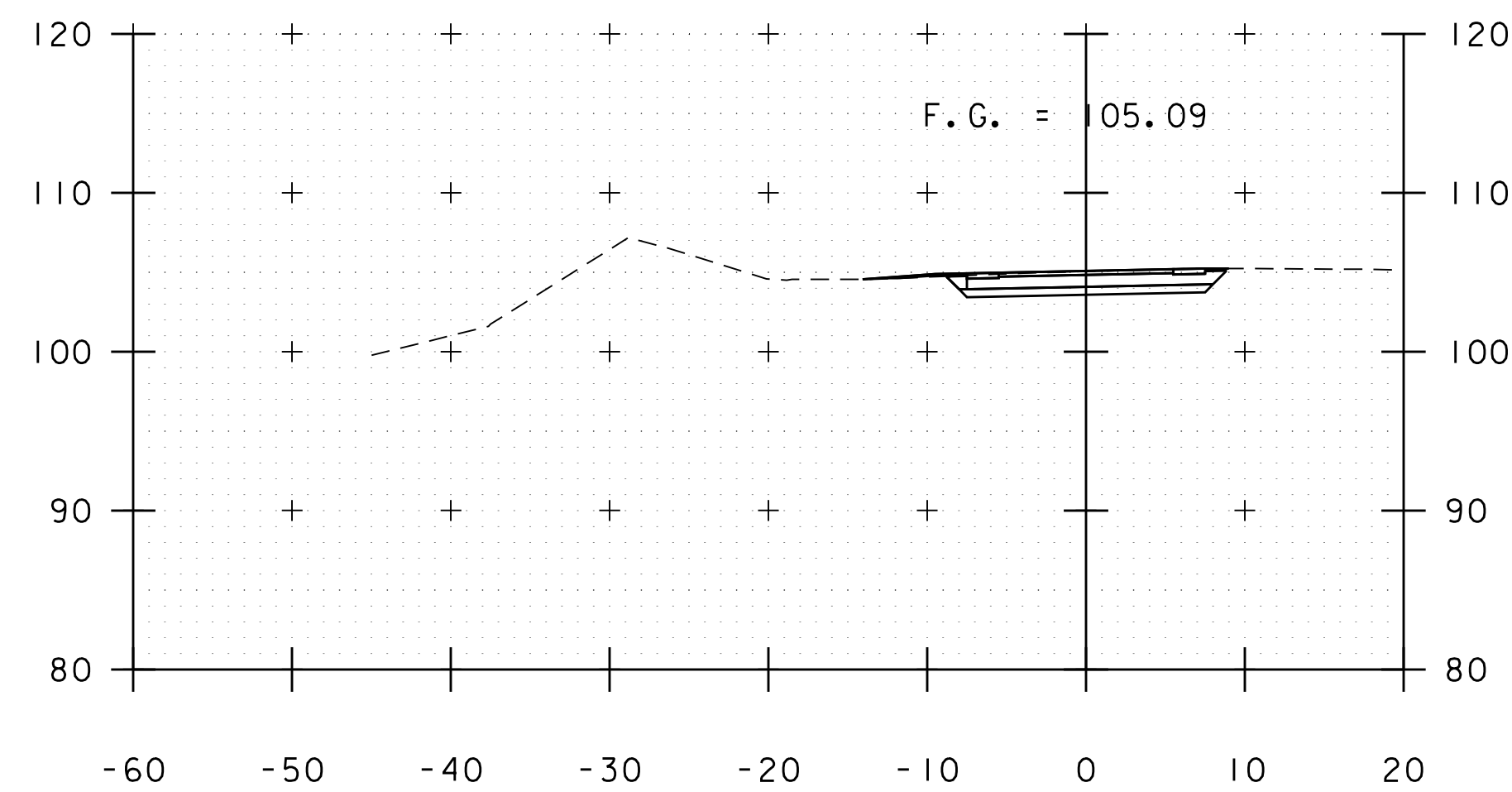
158+50



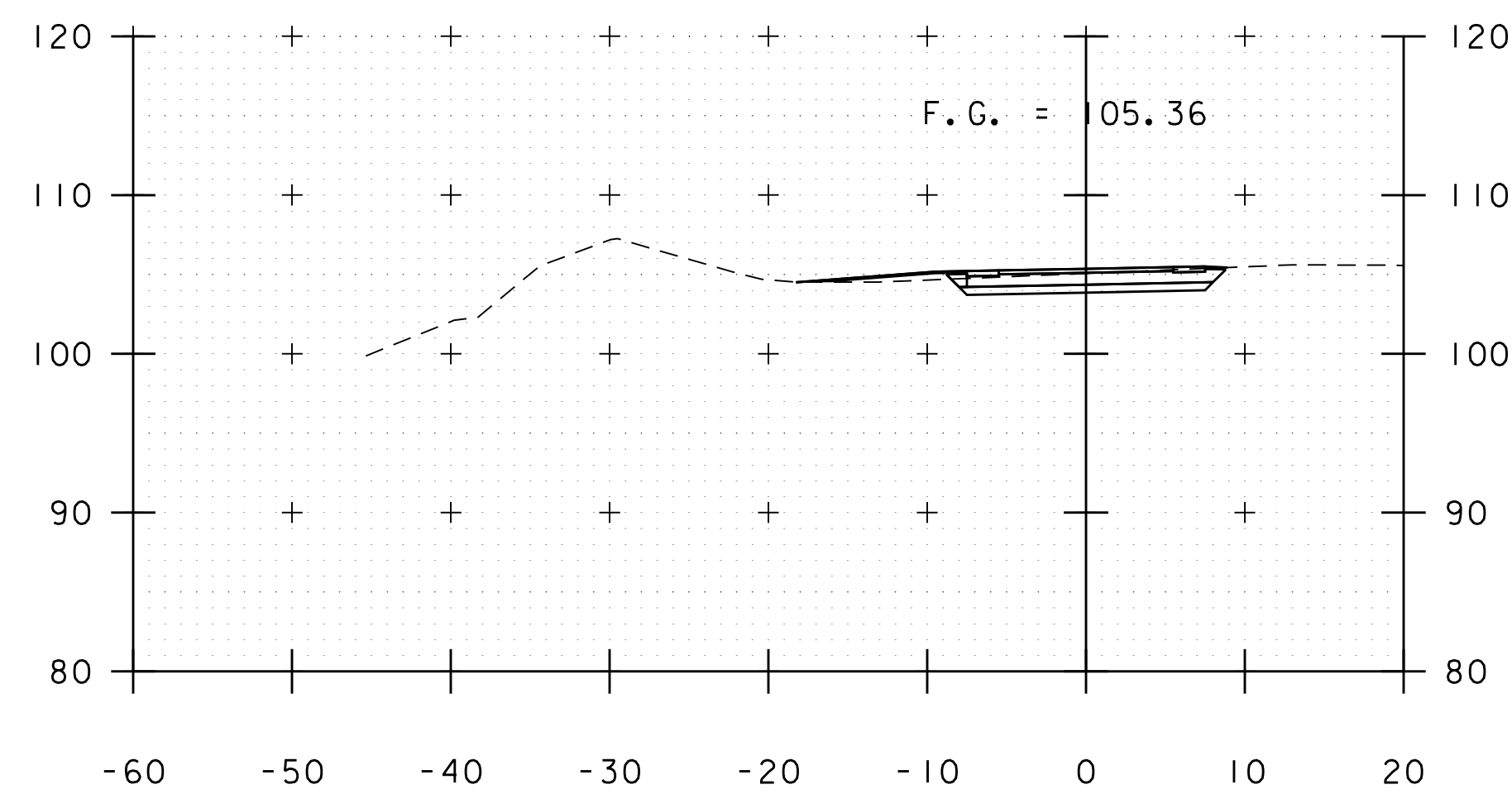
158+00



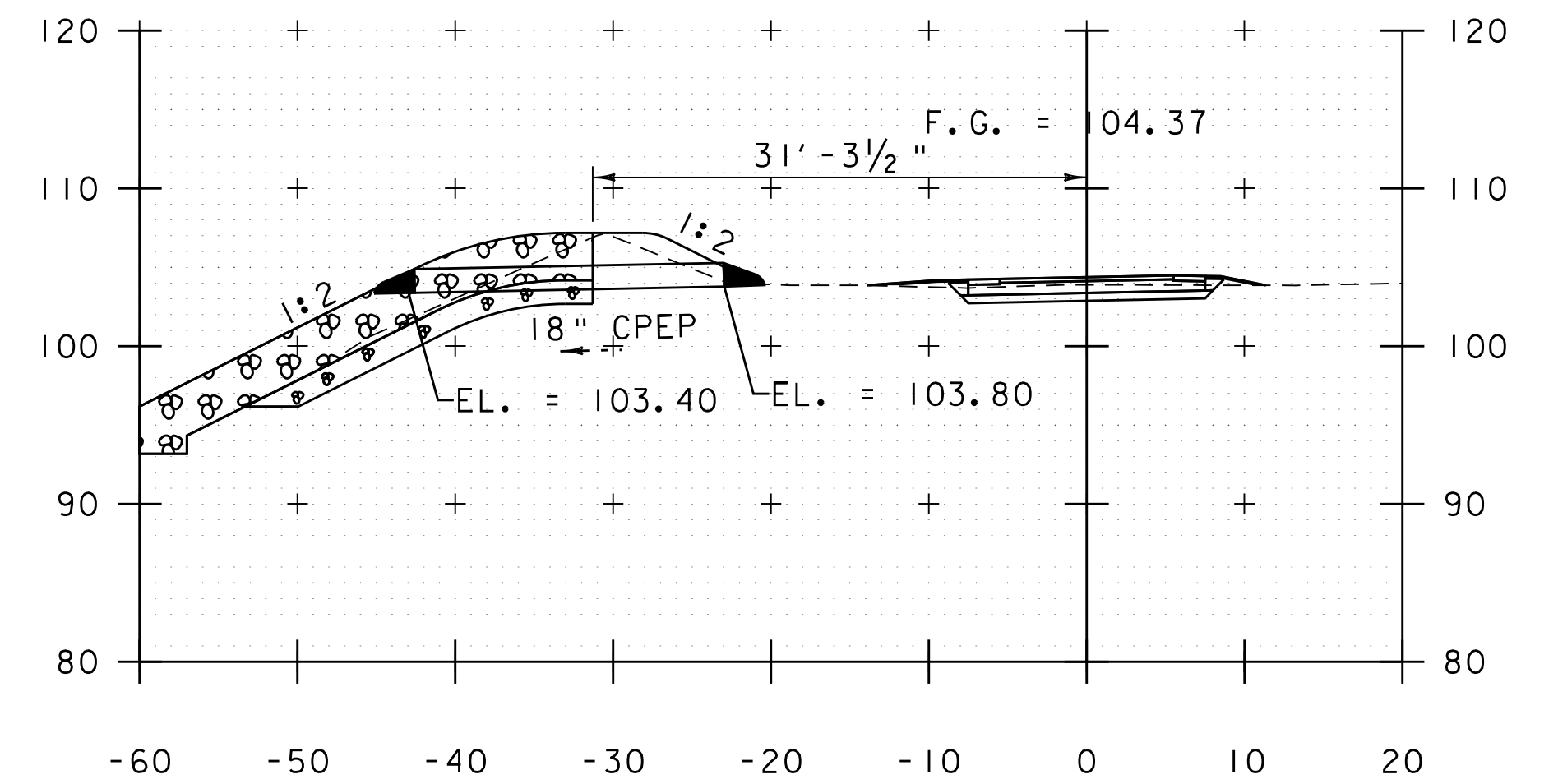
160+50



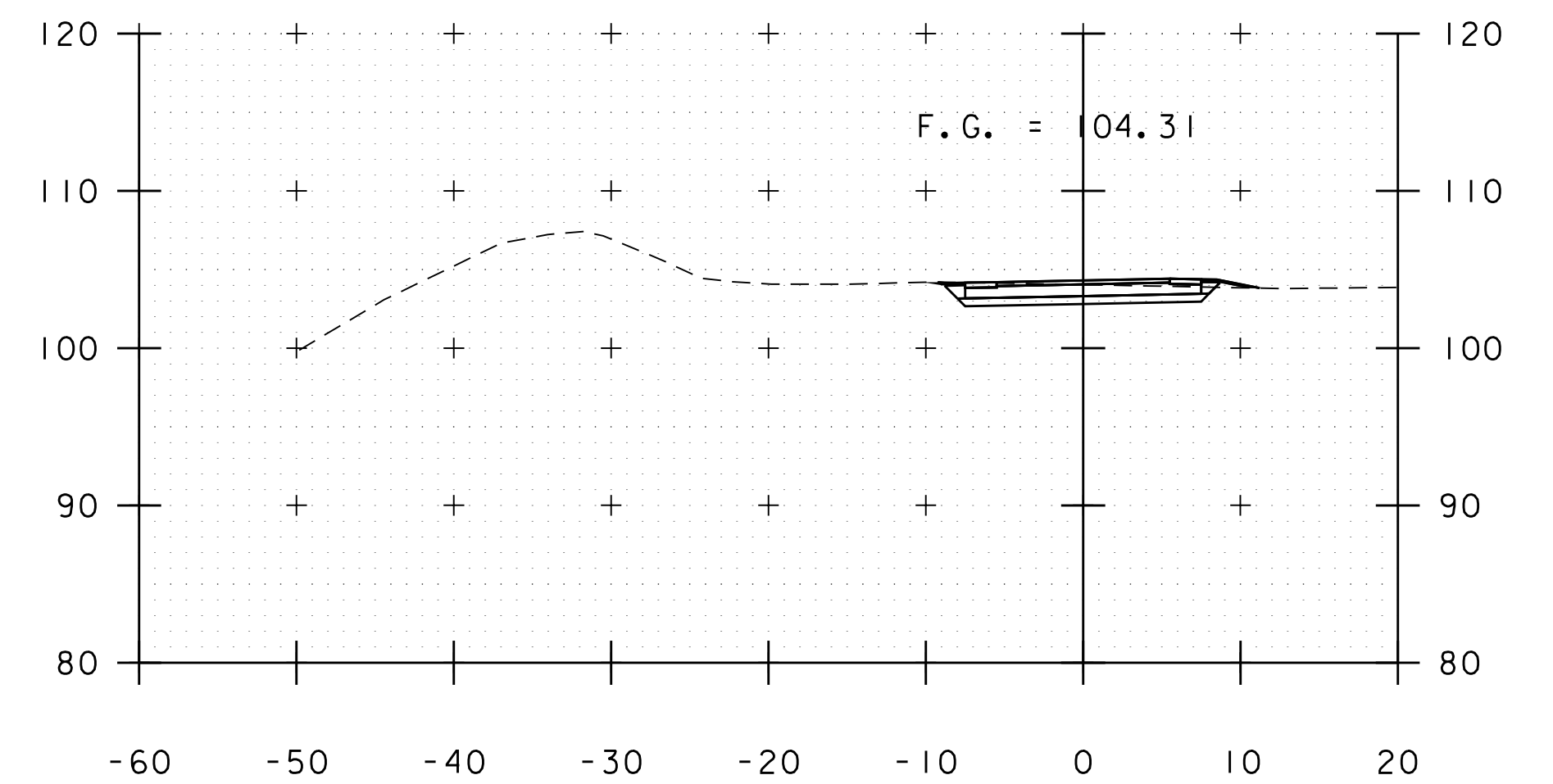
160+00



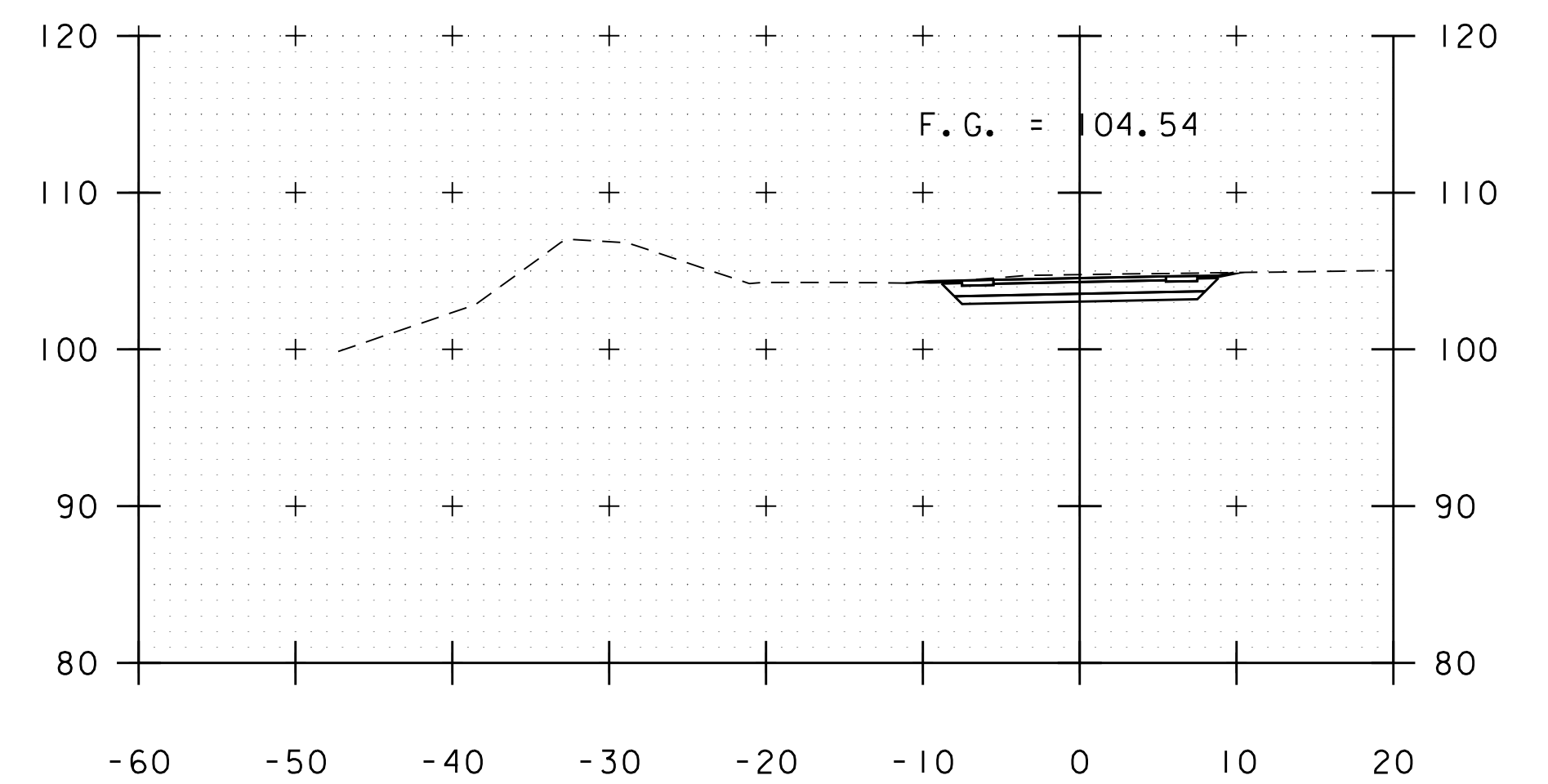
159+50



162+00



161+50



161+00

STA. 158+00 TO STA. 162+00



PROJECT NAME: BURLINGTON BIKE PATH

PROJECT NUMBER: 57634.00

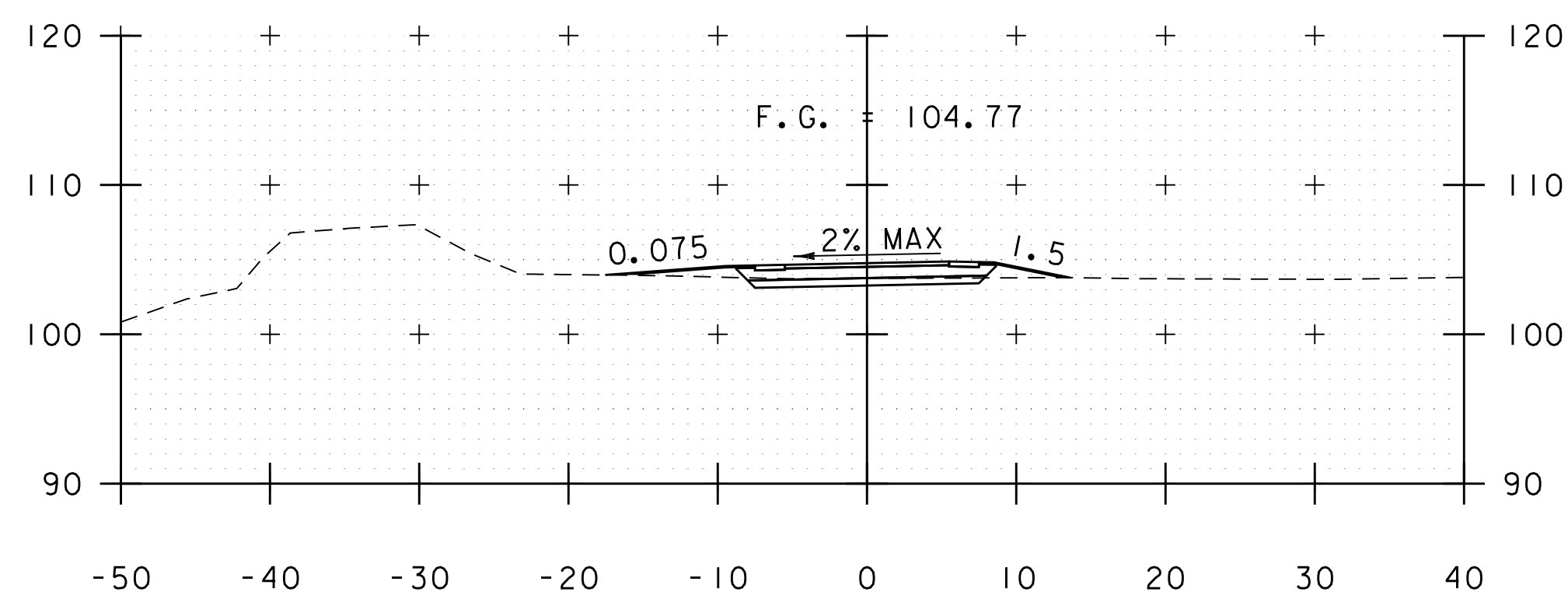
FILE NAME: z57634xs.dgn  
PROJECT LEADER: M.A. COLGAN  
DESIGNED BY: D.M. PECK  
PATH CROSS SECTIONS (5 OF 18)

PLOT DATE: 3/23/2016  
DRAWN BY: P.A. MILLER  
CHECKED BY: M.A. COLGAN  
SHEET 62 OF 119

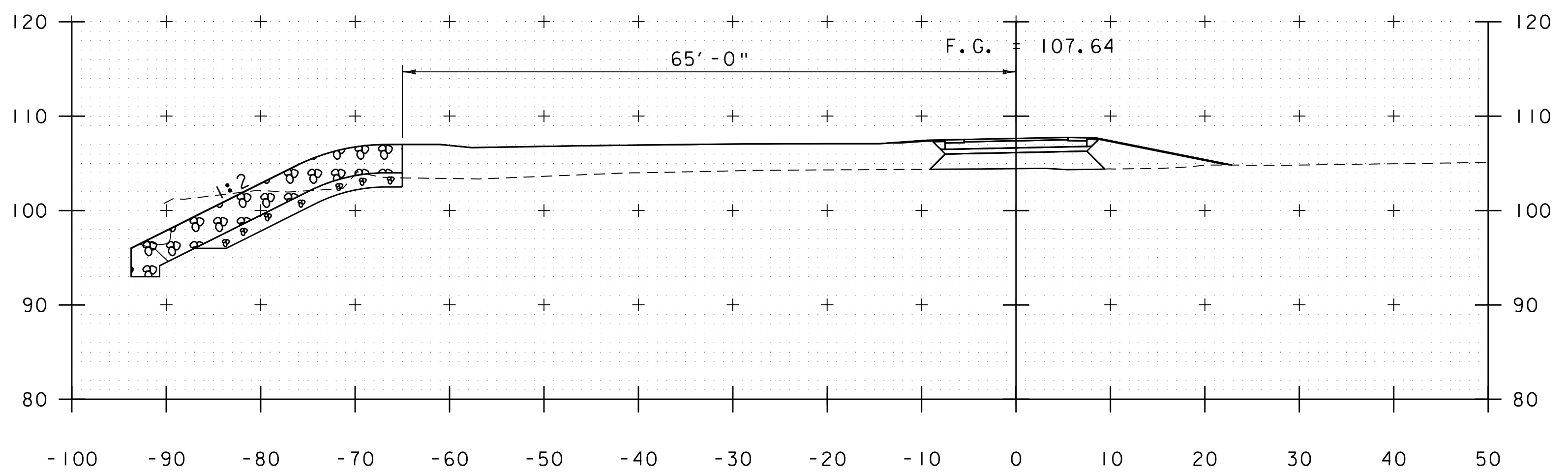




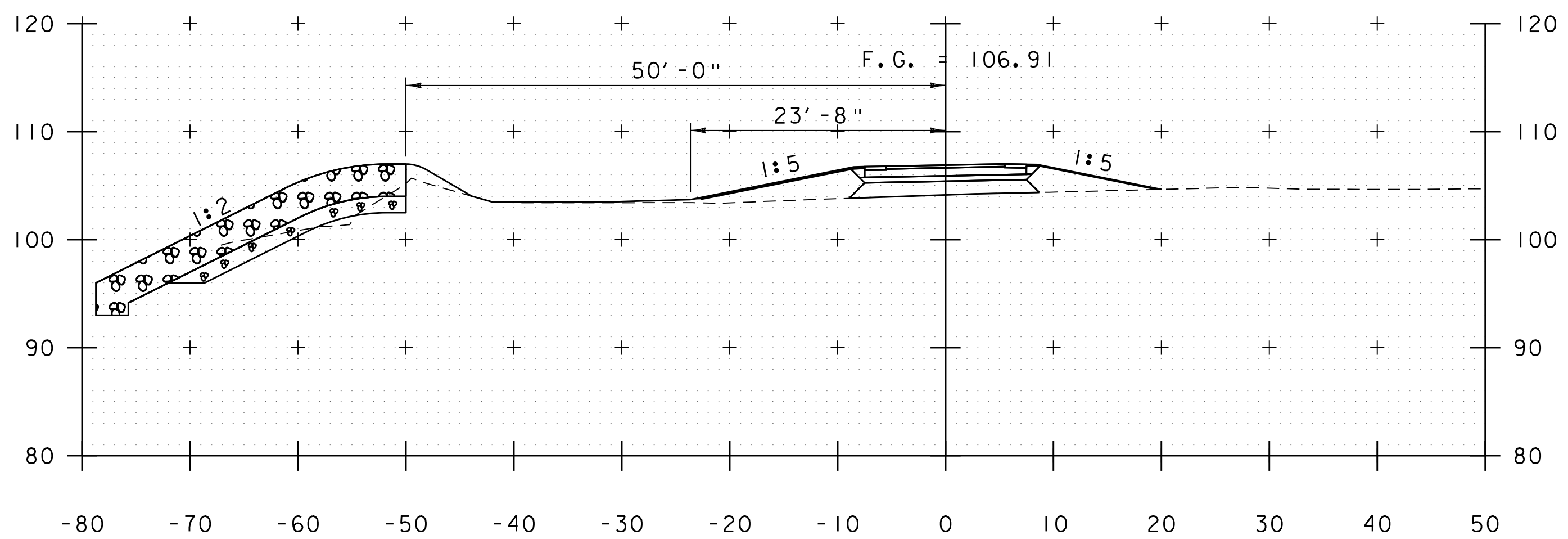
163+00



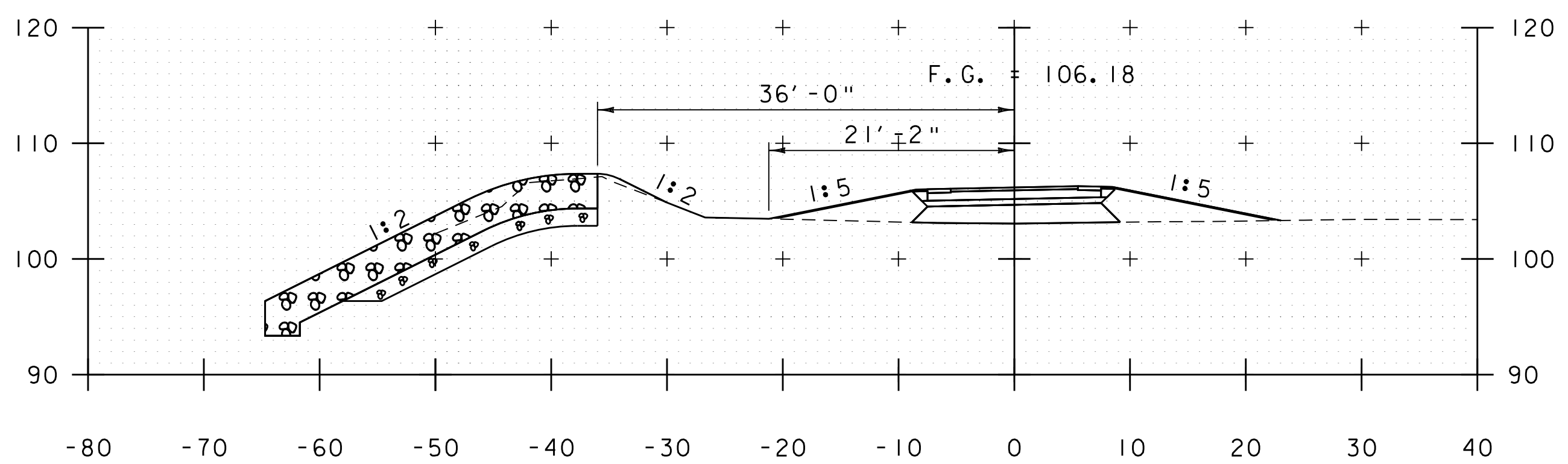
162+50



164+50



164+00



163+50

STA. 162+50 TO STA. 164+50

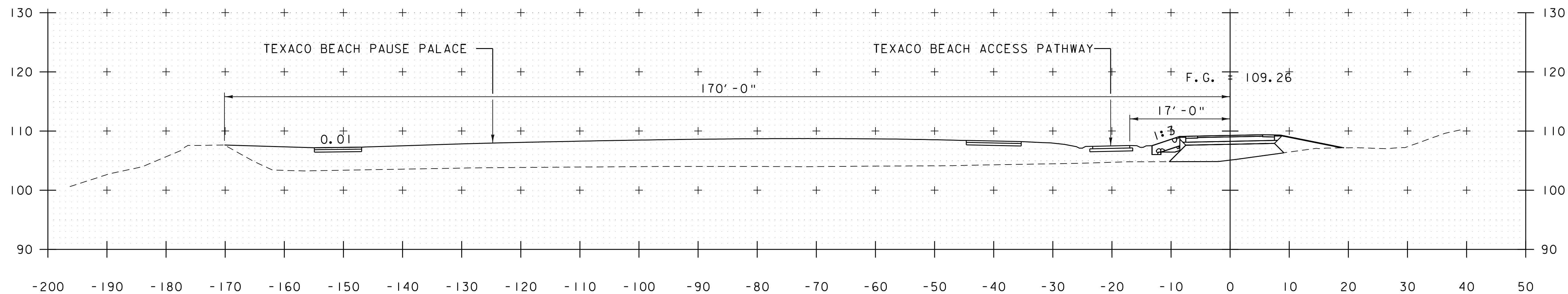


PROJECT NAME: BURLINGTON BIKE PATH  
PROJECT NUMBER: 57634.00

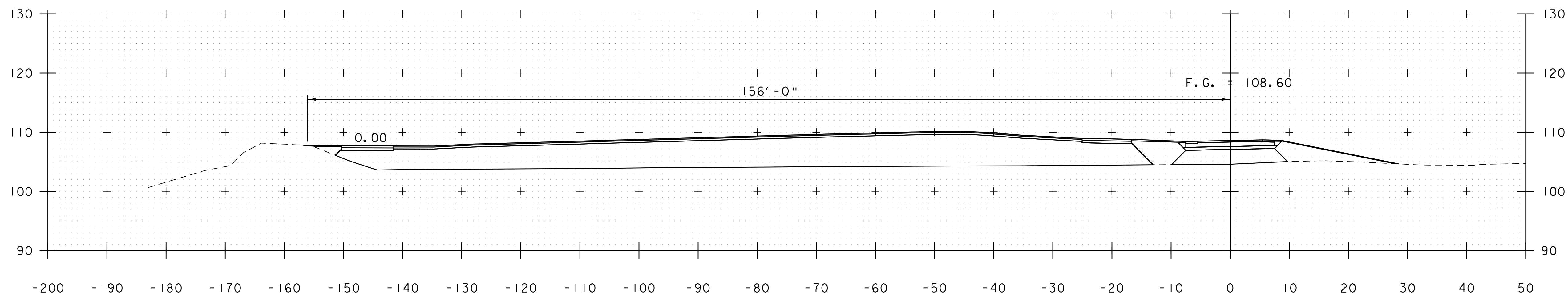
FILE NAME: z57634xs.dgn  
PROJECT LEADER: M.A. COLGAN  
DESIGNED BY: D.M. PECK  
PATH CROSS SECTIONS (6 OF 18)

PLOT DATE: 3/23/2016  
DRAWN BY: P.A. MILLER  
CHECKED BY: M.A. COLGAN  
SHEET 63 OF 119

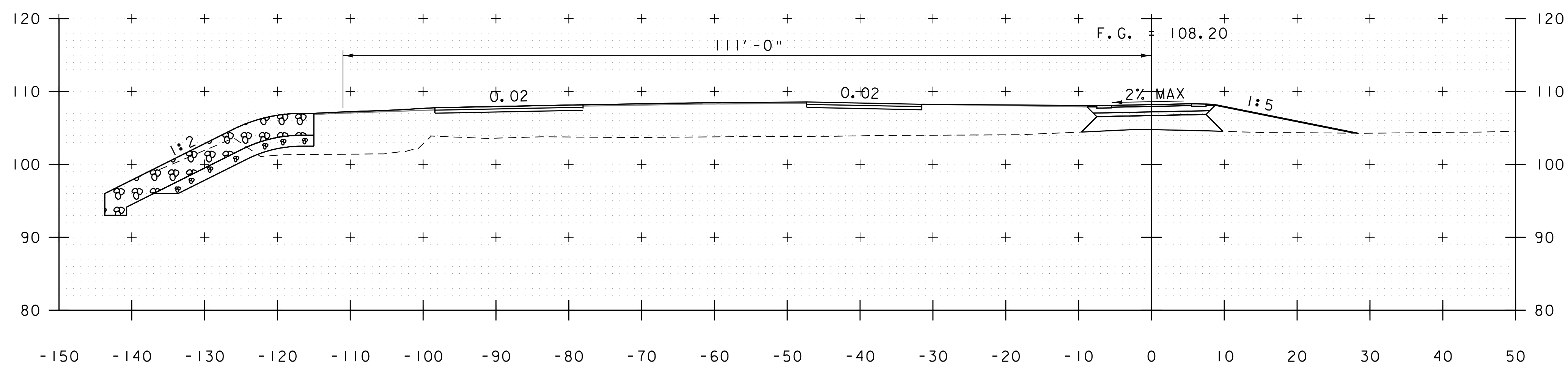




166+00



165+50



165+00

STA. 165+00 TO STA. 166+00

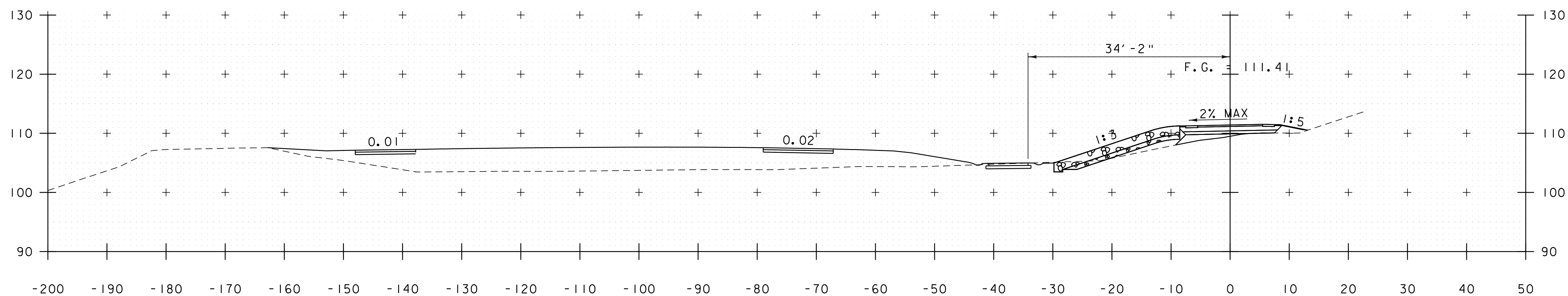
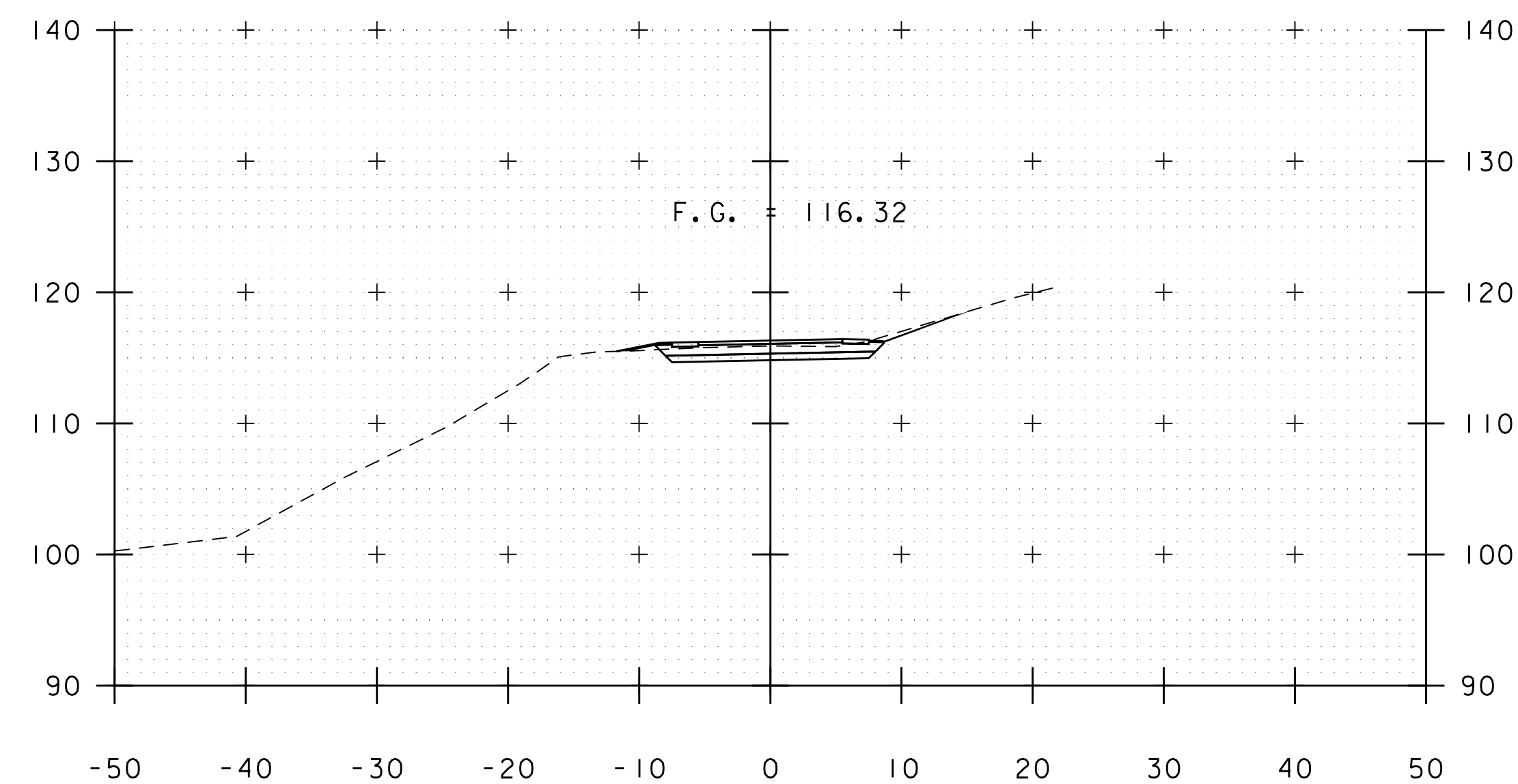
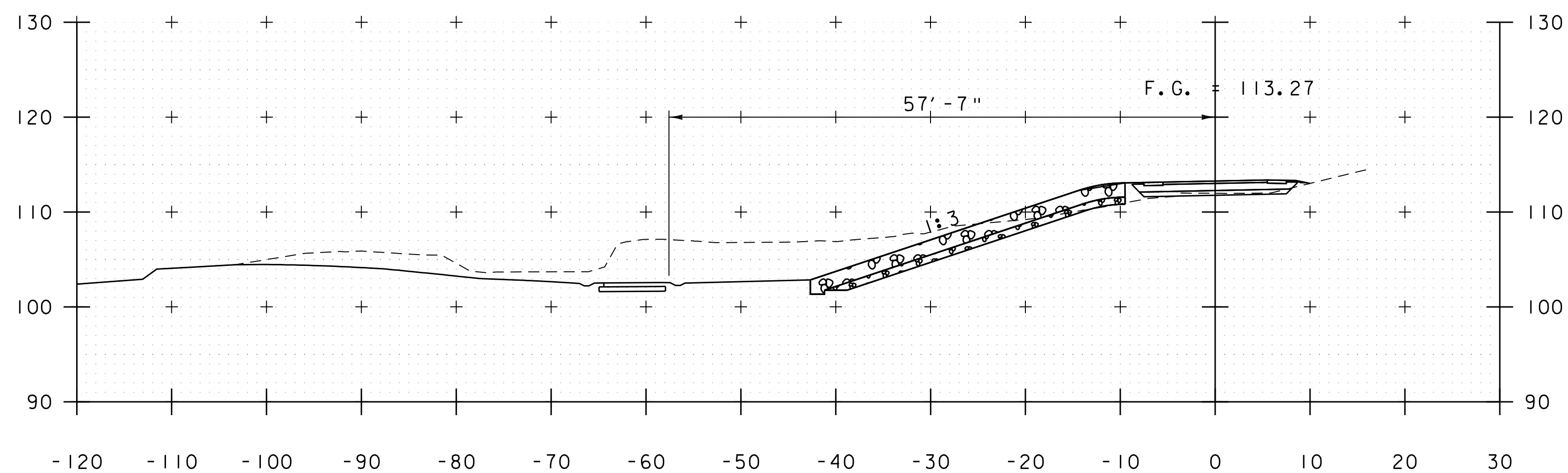
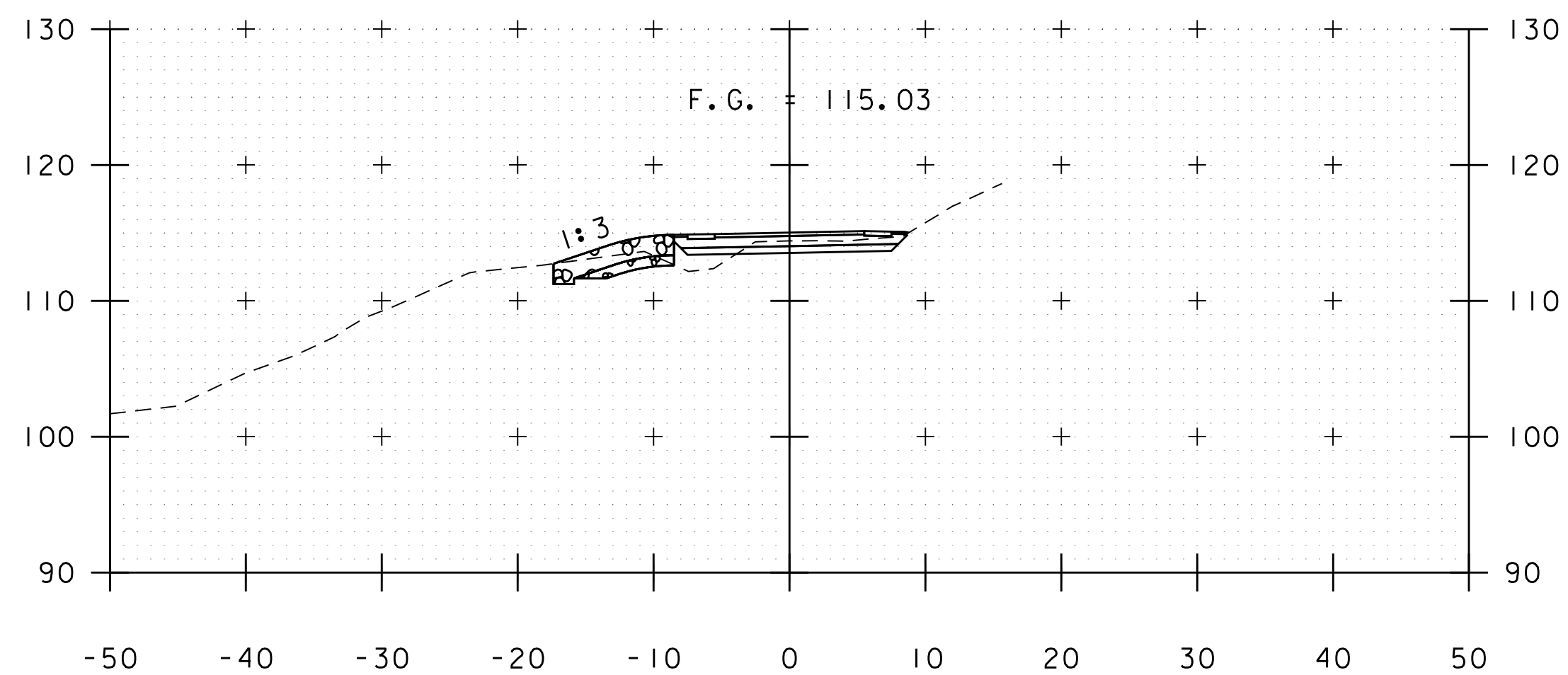


PROJECT NAME: BURLINGTON BIKE PATH  
PROJECT NUMBER: 57634.00

FILE NAME: z57634xs.dgn  
PROJECT LEADER: M.A. COLGAN  
DESIGNED BY: D.M. PECK  
PATH CROSS SECTIONS (7 OF 18)

PLOT DATE: 3/23/2016  
DRAWN BY: P.A. MILLER  
CHECKED BY: M.A. COLGAN  
SHEET 64 OF 119





STA. 166+50 TO STA. 168+00

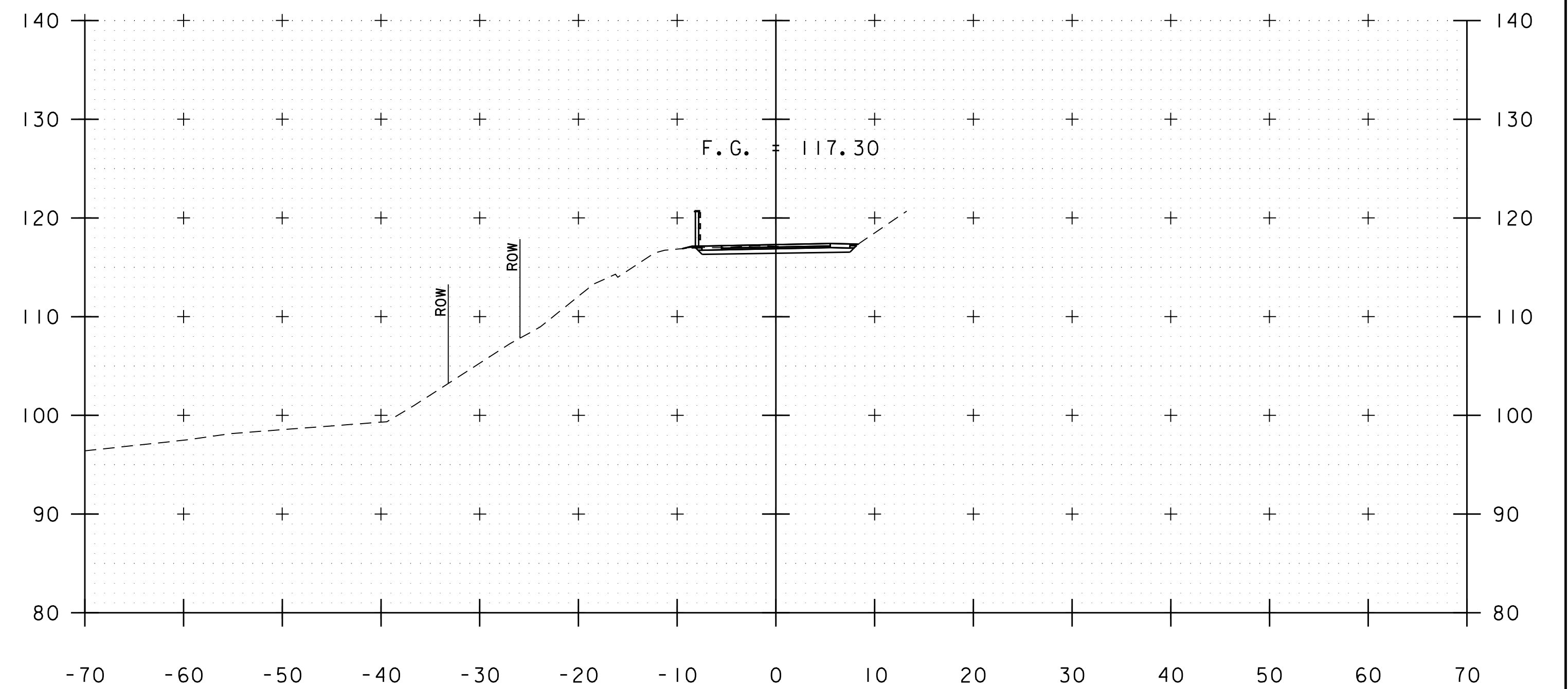
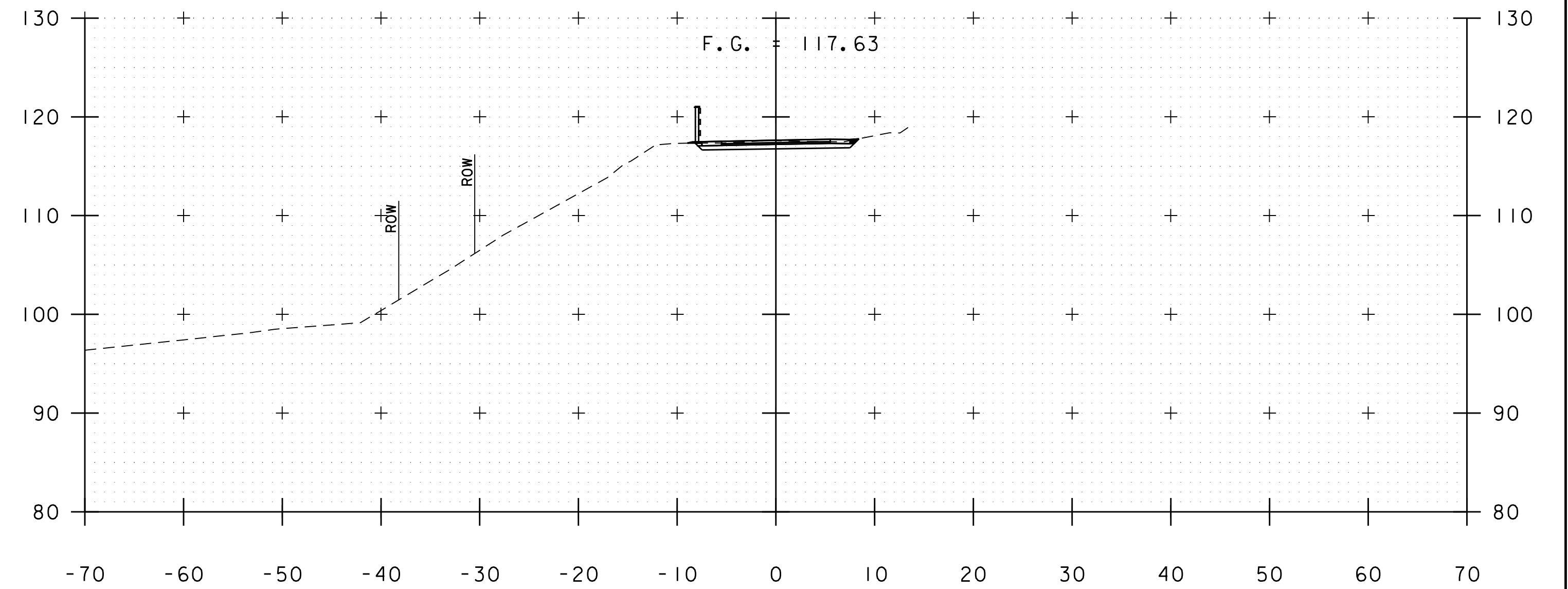
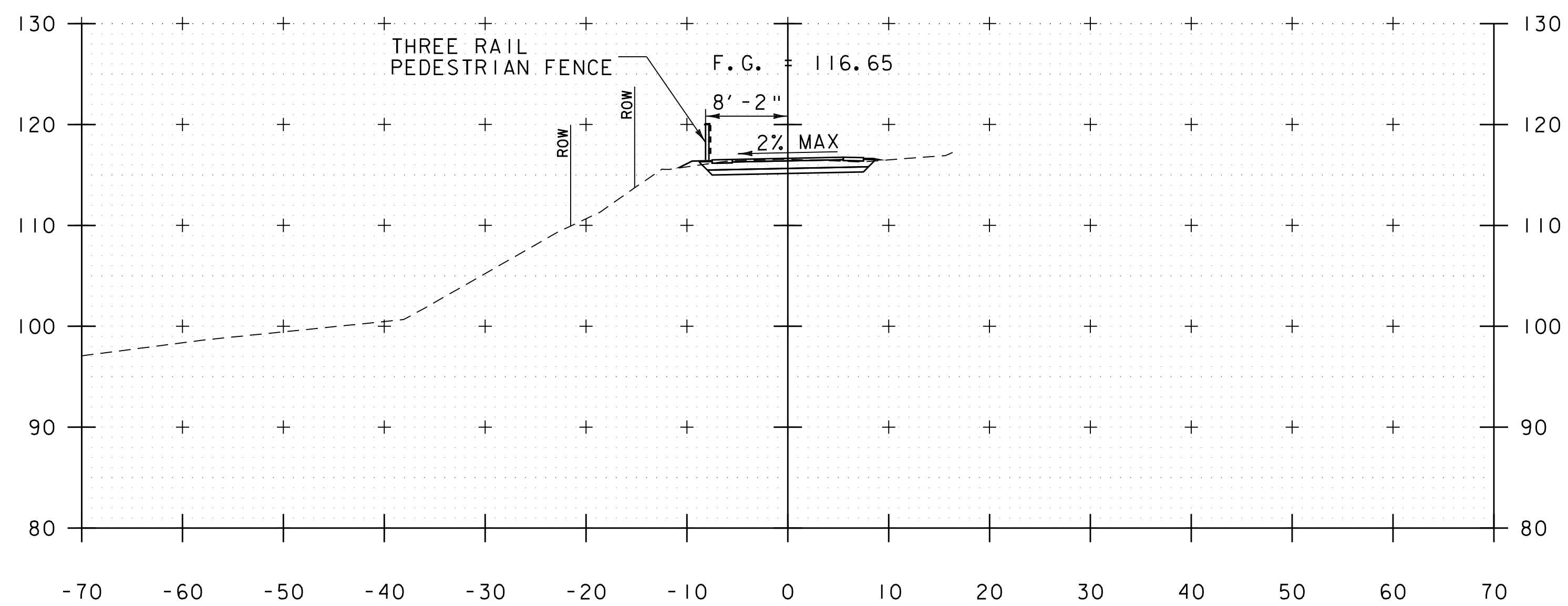
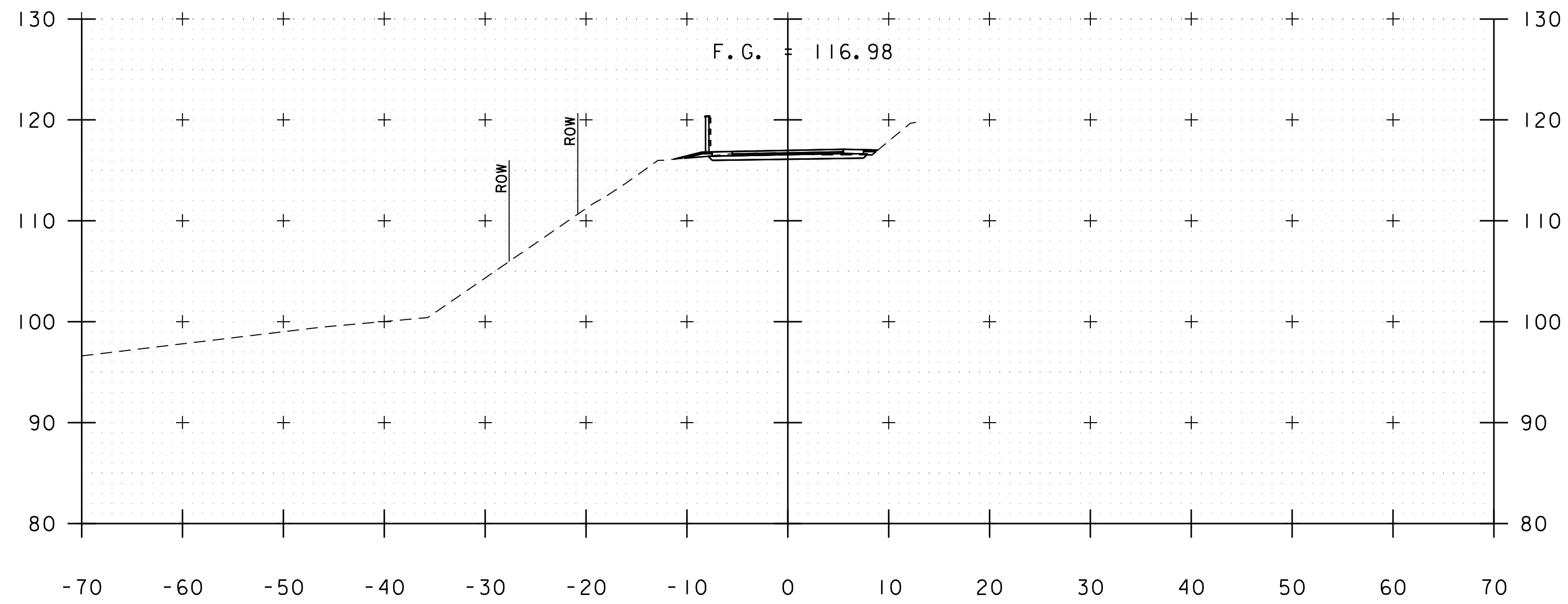


PROJECT NAME: BURLINGTON BIKE PATH  
PROJECT NUMBER: 57634.00

FILE NAME: z57634xs.dgn  
PROJECT LEADER: M.A. COLGAN  
DESIGNED BY: D.M. PECK  
PATH CROSS SECTIONS (8 OF 18)

PLOT DATE: 3/23/2016  
DRAWN BY: P.A. MILLER  
CHECKED BY: M.A. COLGAN  
SHEET 65 OF 119





STA. 168+50 TO STA. 170+00

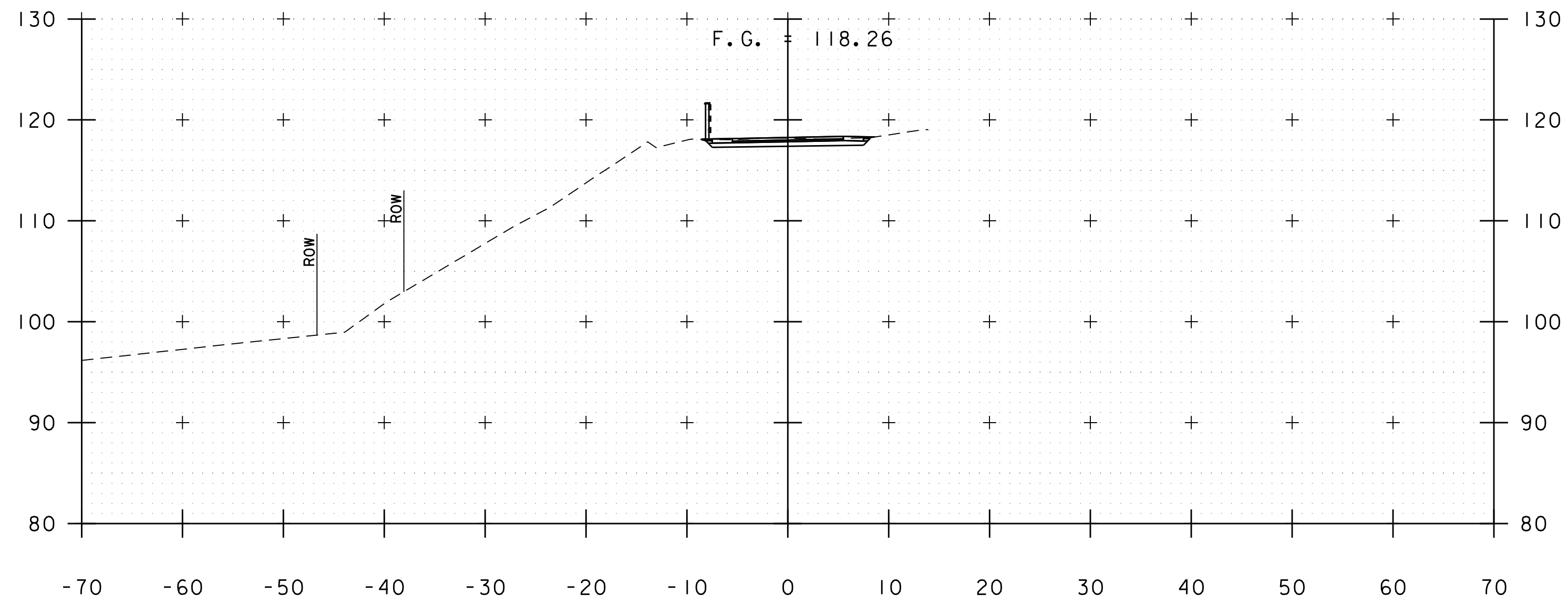


PROJECT NAME: BURLINGTON BIKE PATH  
PROJECT NUMBER: 57634.00

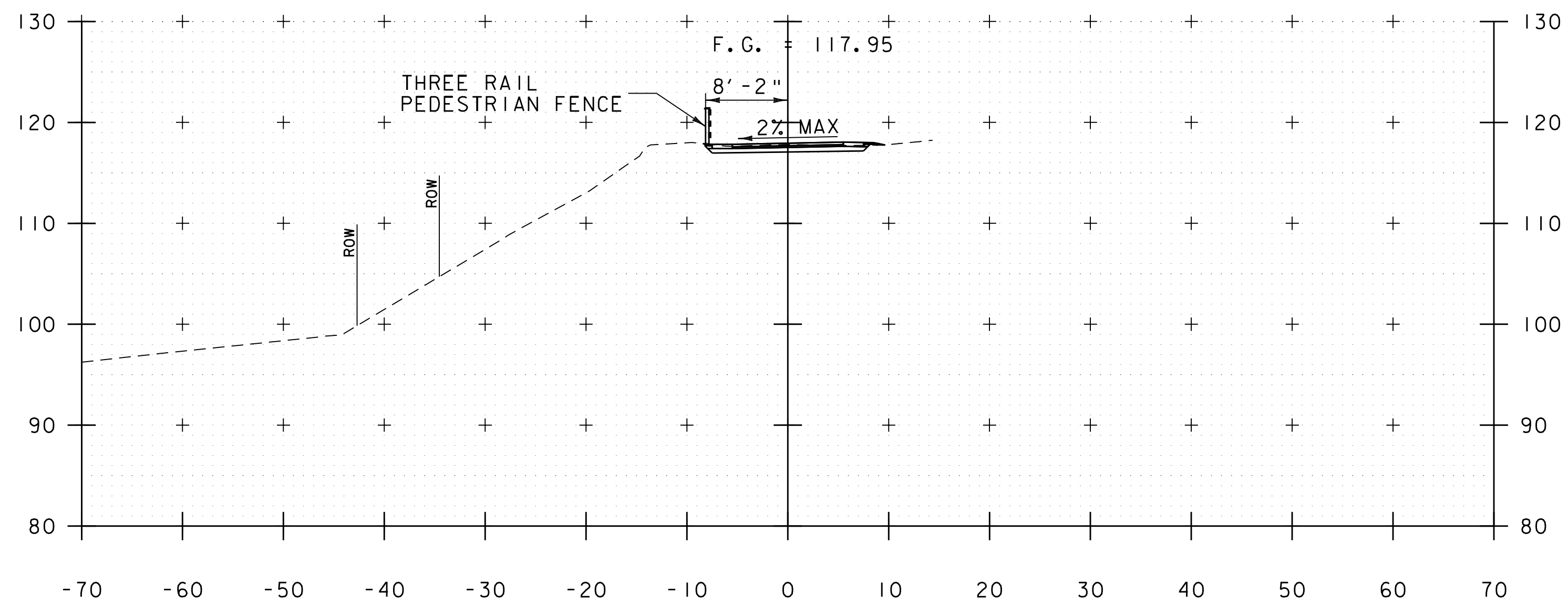
FILE NAME: z57634xs.dgn  
PROJECT LEADER: M.A. COLGAN  
DESIGNED BY: D.M. PECK  
PATH CROSS SECTIONS (9 OF 18)

PLOT DATE: 3/23/2016  
DRAWN BY: P.A. MILLER  
CHECKED BY: M.A. COLGAN  
SHEET 66 OF 119

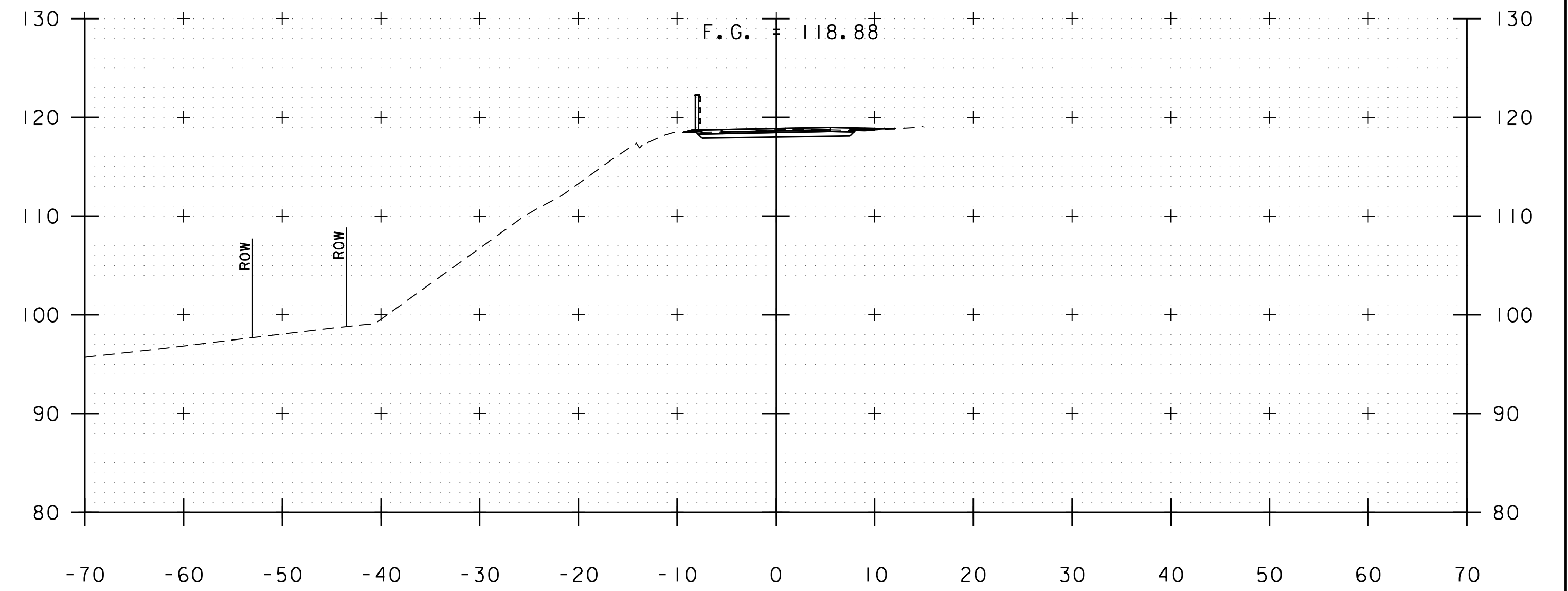




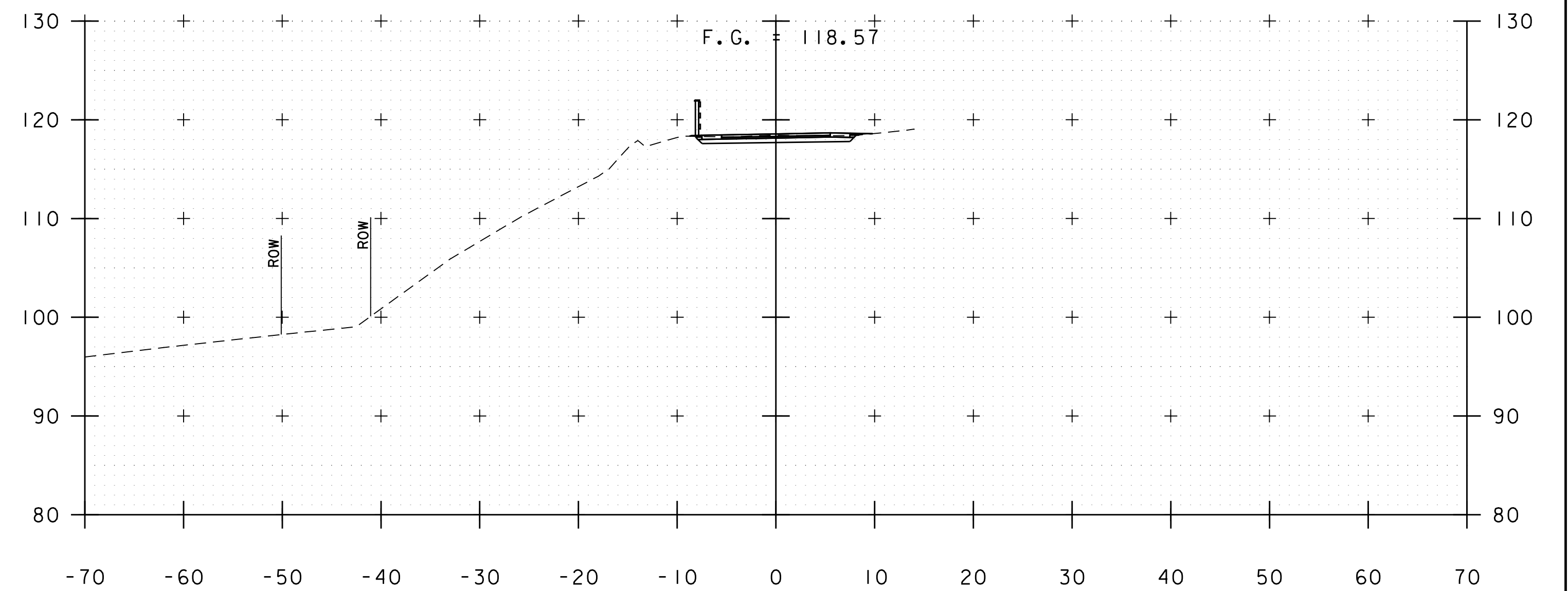
171+00



170+50



172+00



171+50

STA. 170+50 TO STA. 172+00



PROJECT NAME: BURLINGTON BIKE PATH

PROJECT NUMBER: 57634.00

FILE NAME: z57634xs.dgn

PROJECT LEADER: M.A. COLGAN

DESIGNED BY: D.M. PECK

PATH CROSS SECTIONS (10 OF 18)

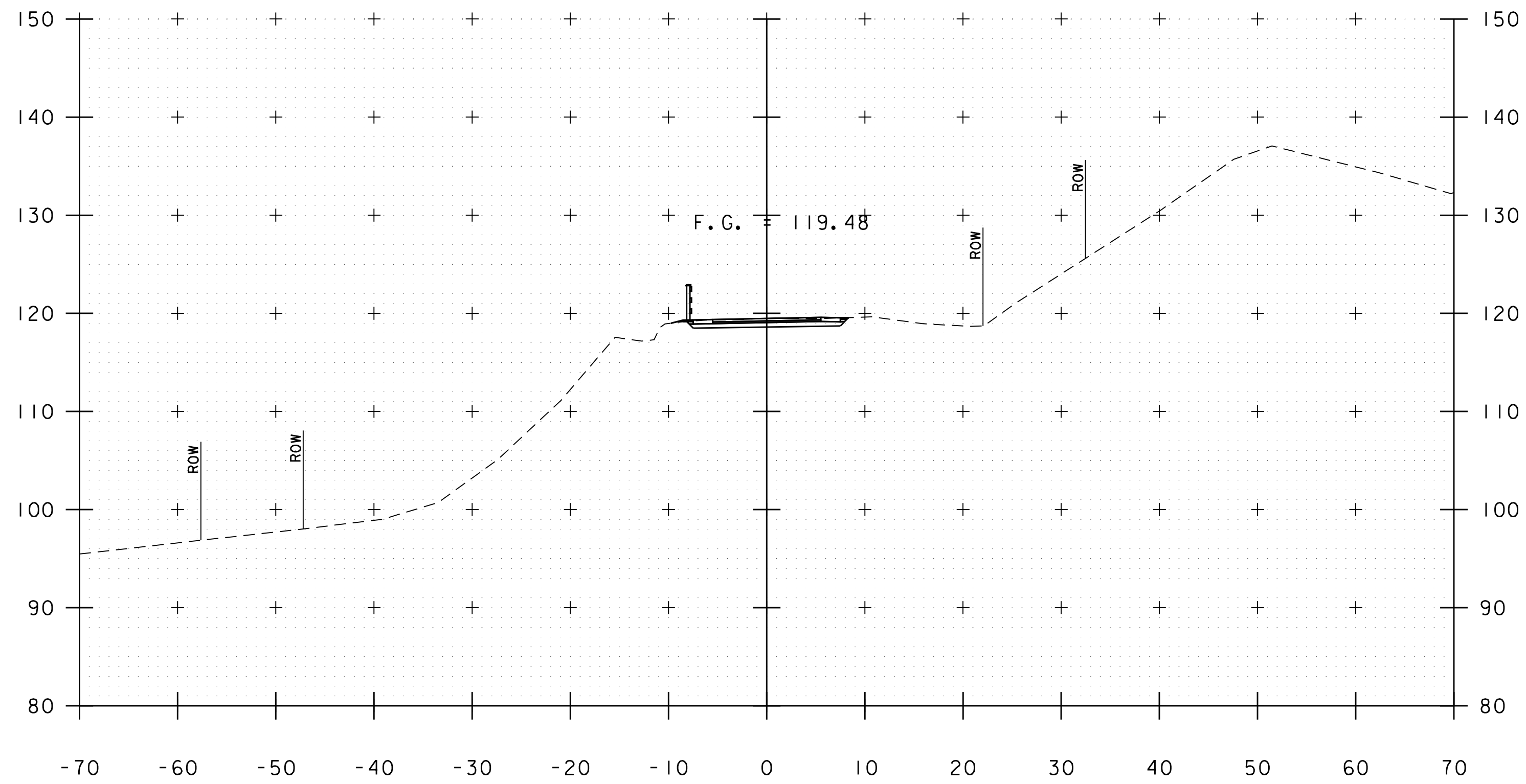
PLOT DATE: 3/23/2016

DRAWN BY: P.A. MILLER

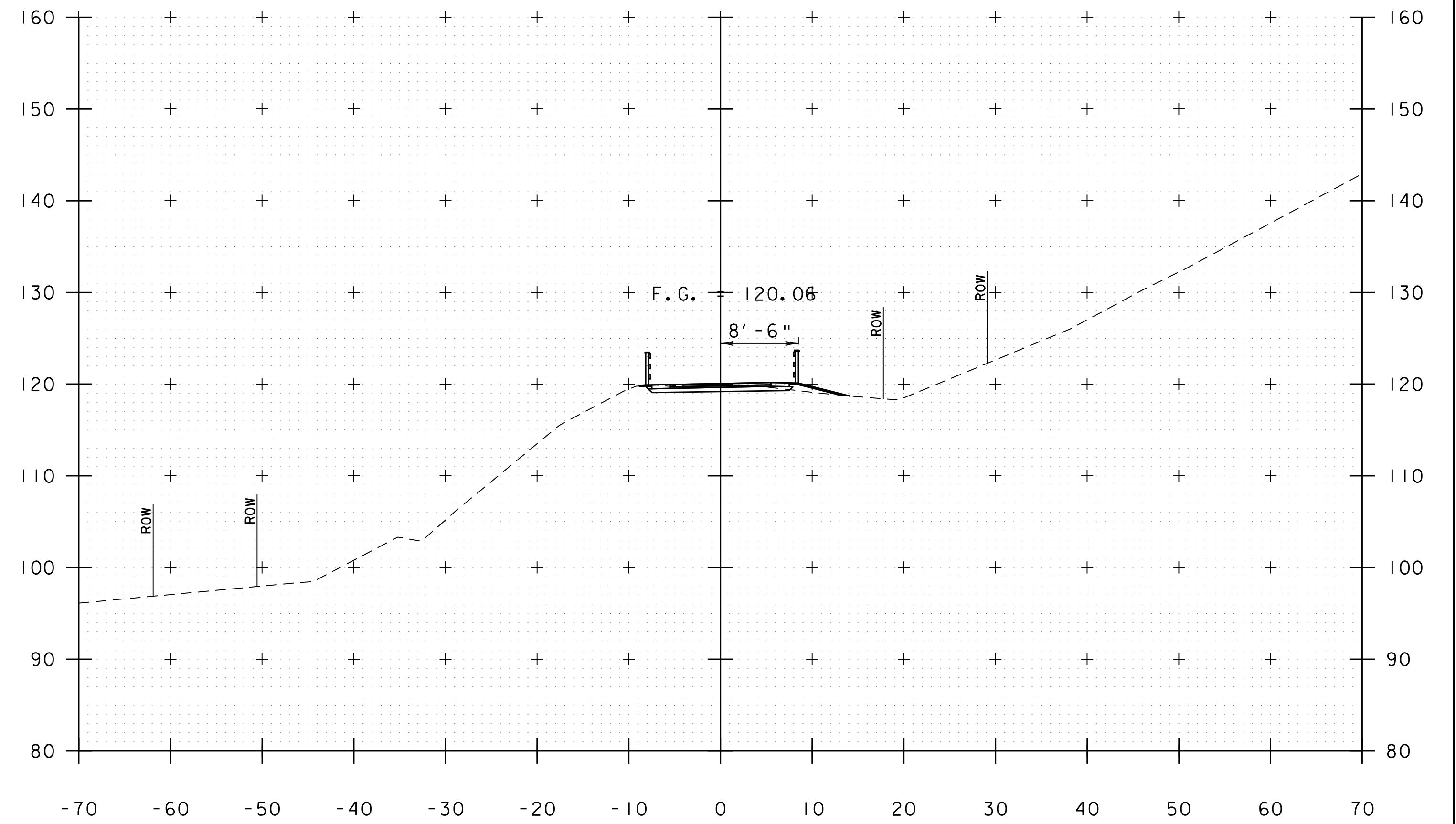
CHECKED BY: M.A. COLGAN

SHEET 67 OF 119

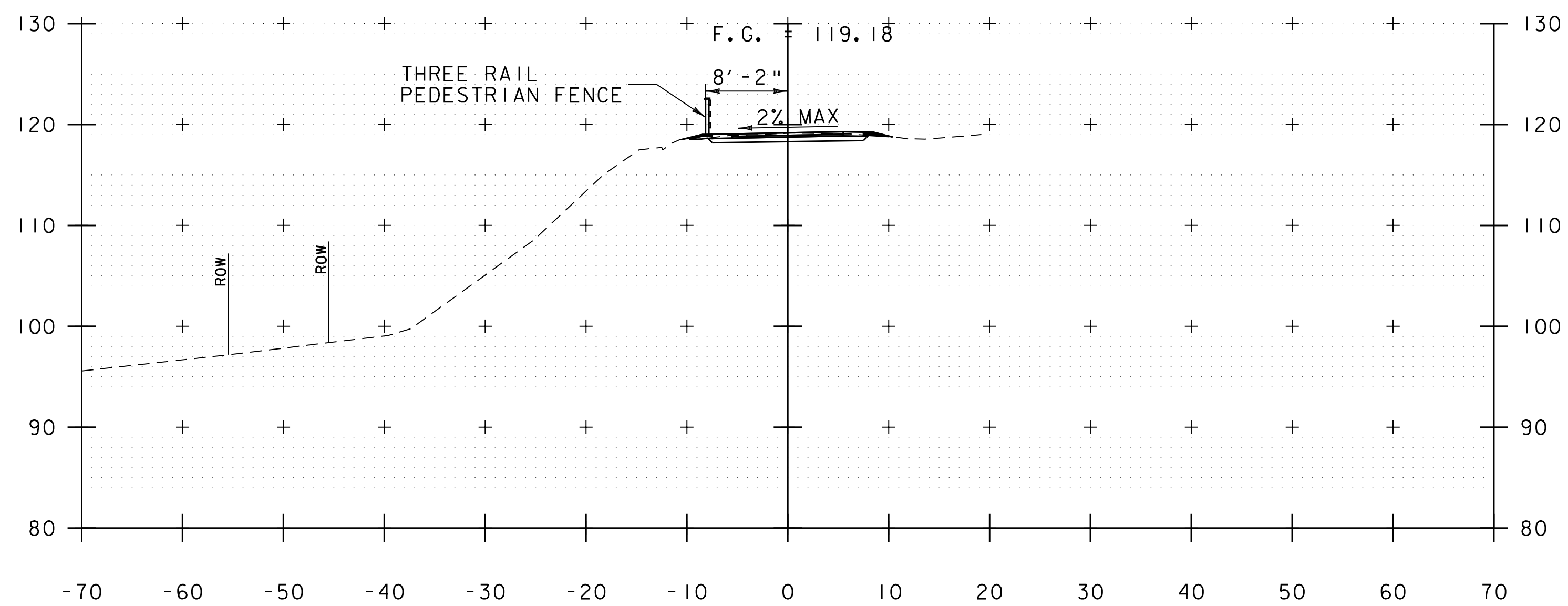




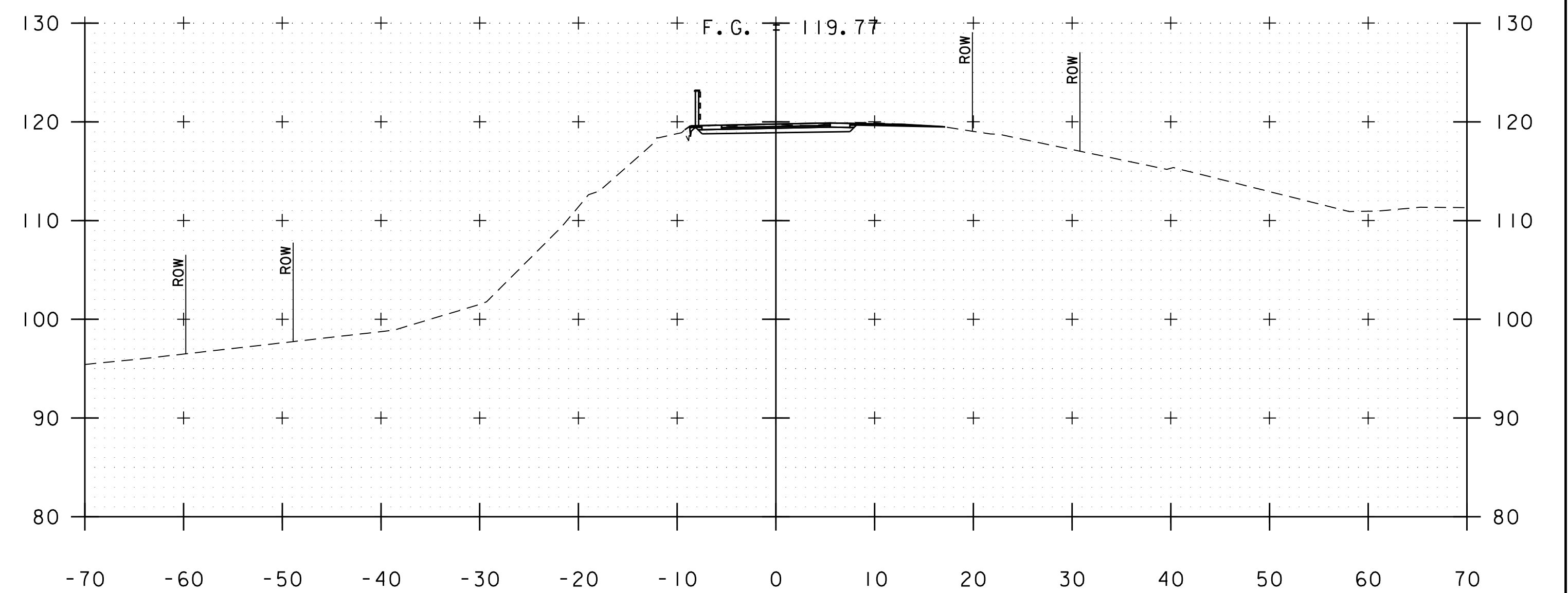
173+00



174+00



172+50



173+50

STA. 172+50 TO STA. 174+00

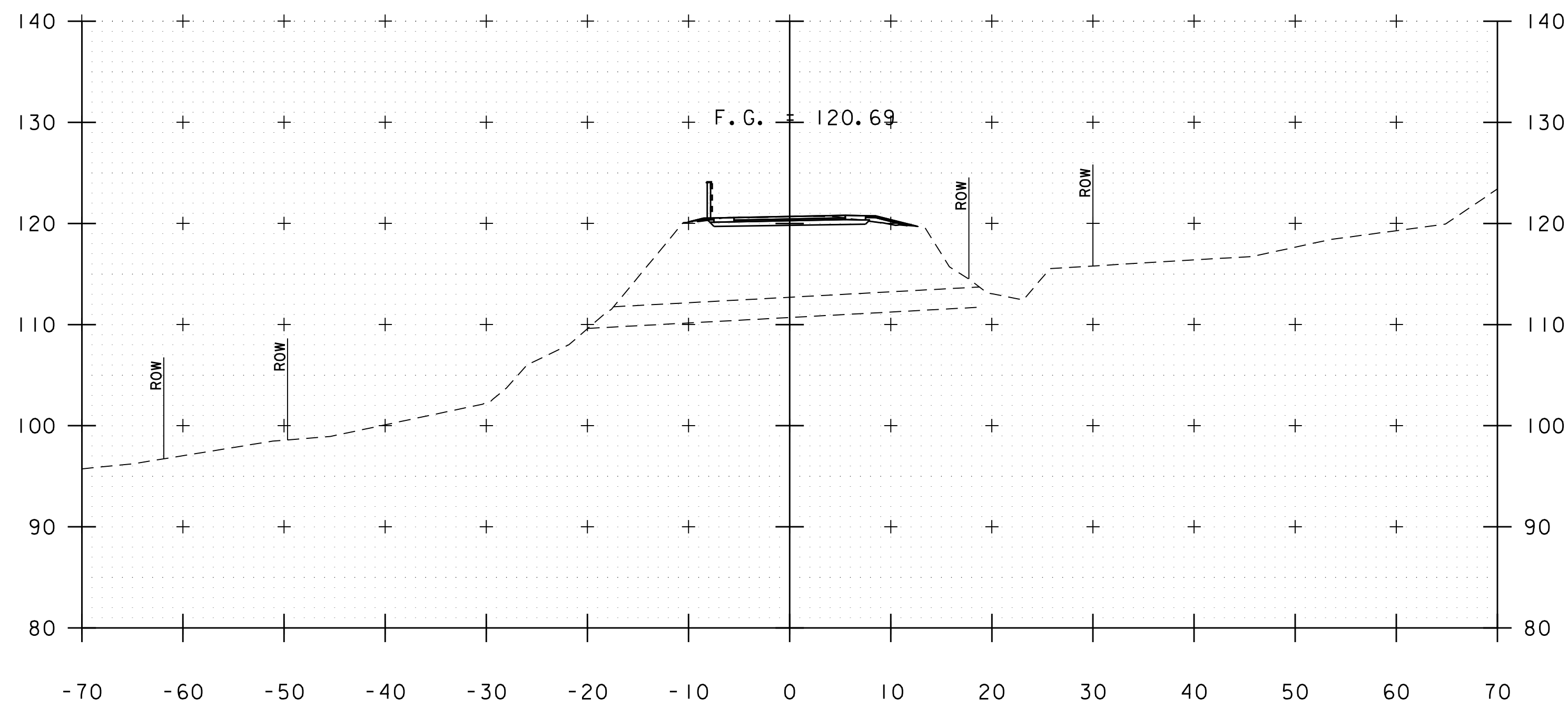


PROJECT NAME: BURLINGTON BIKE PATH  
PROJECT NUMBER: 57634.00

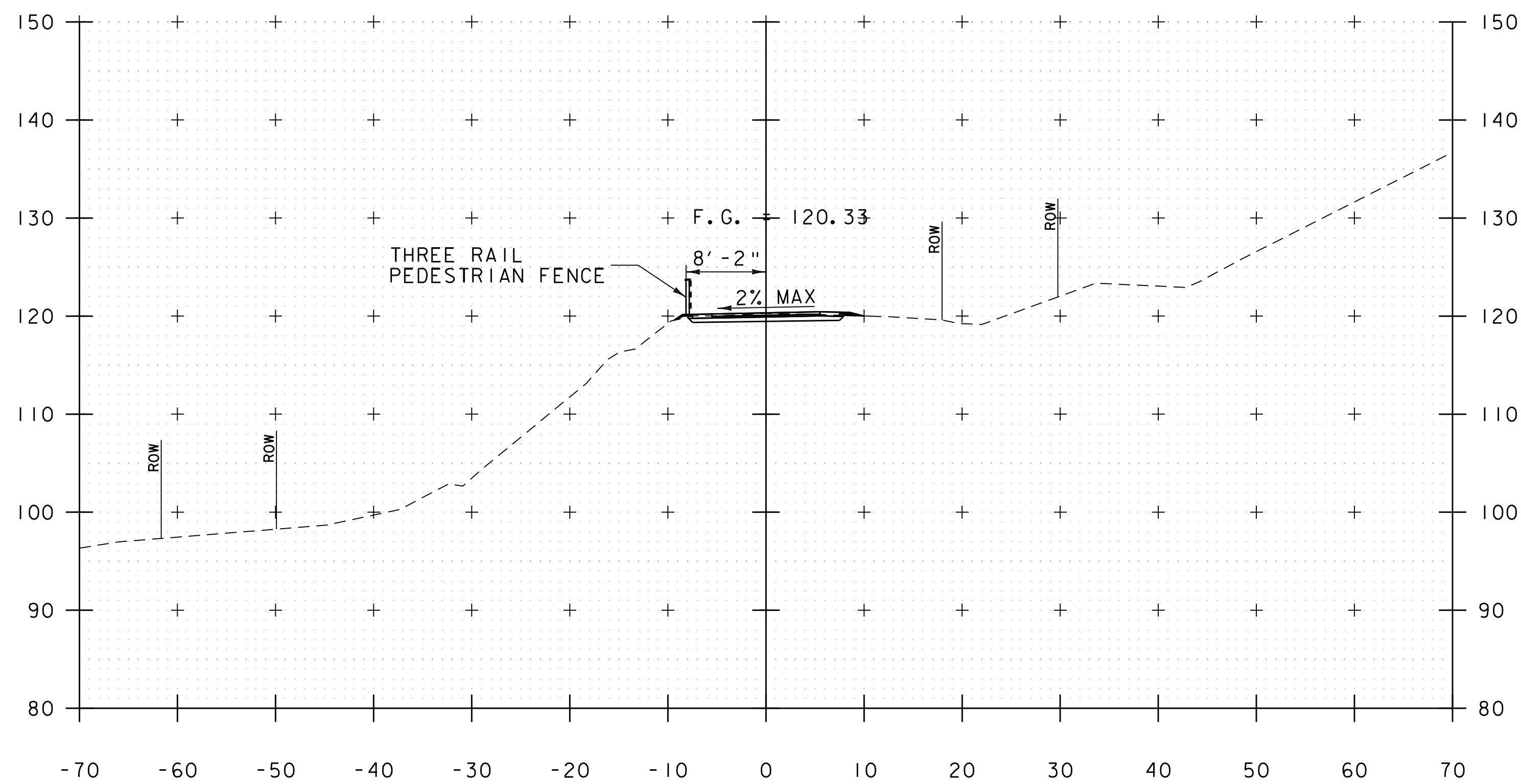
FILE NAME: z57634xs.dgn  
PROJECT LEADER: M.A. COLGAN  
DESIGNED BY: D.M. PECK  
PATH CROSS SECTIONS (11 OF 18)

PLOT DATE: 3/23/2016  
DRAWN BY: P.A. MILLER  
CHECKED BY: M.A. COLGAN  
SHEET 68 OF 119

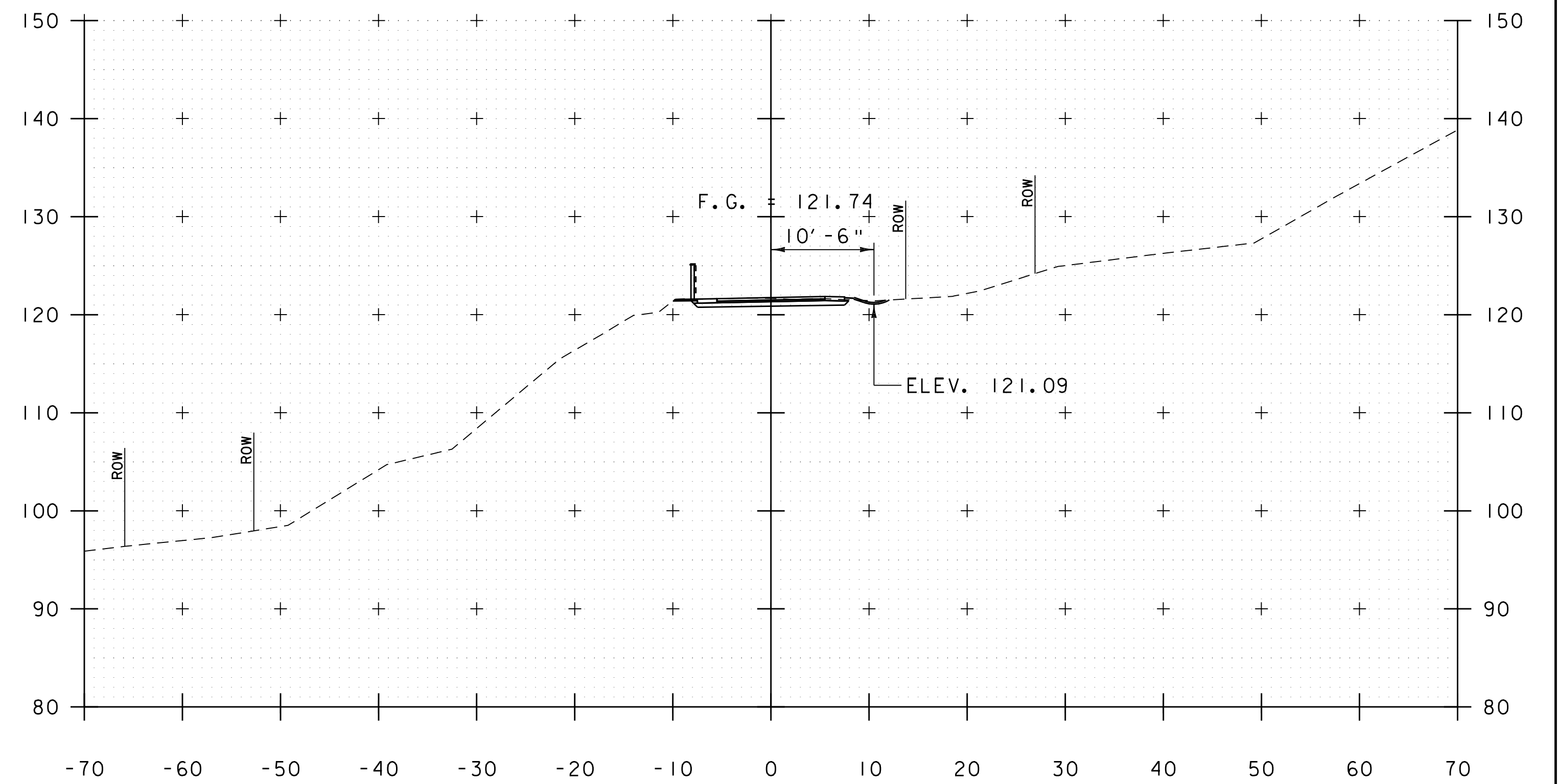




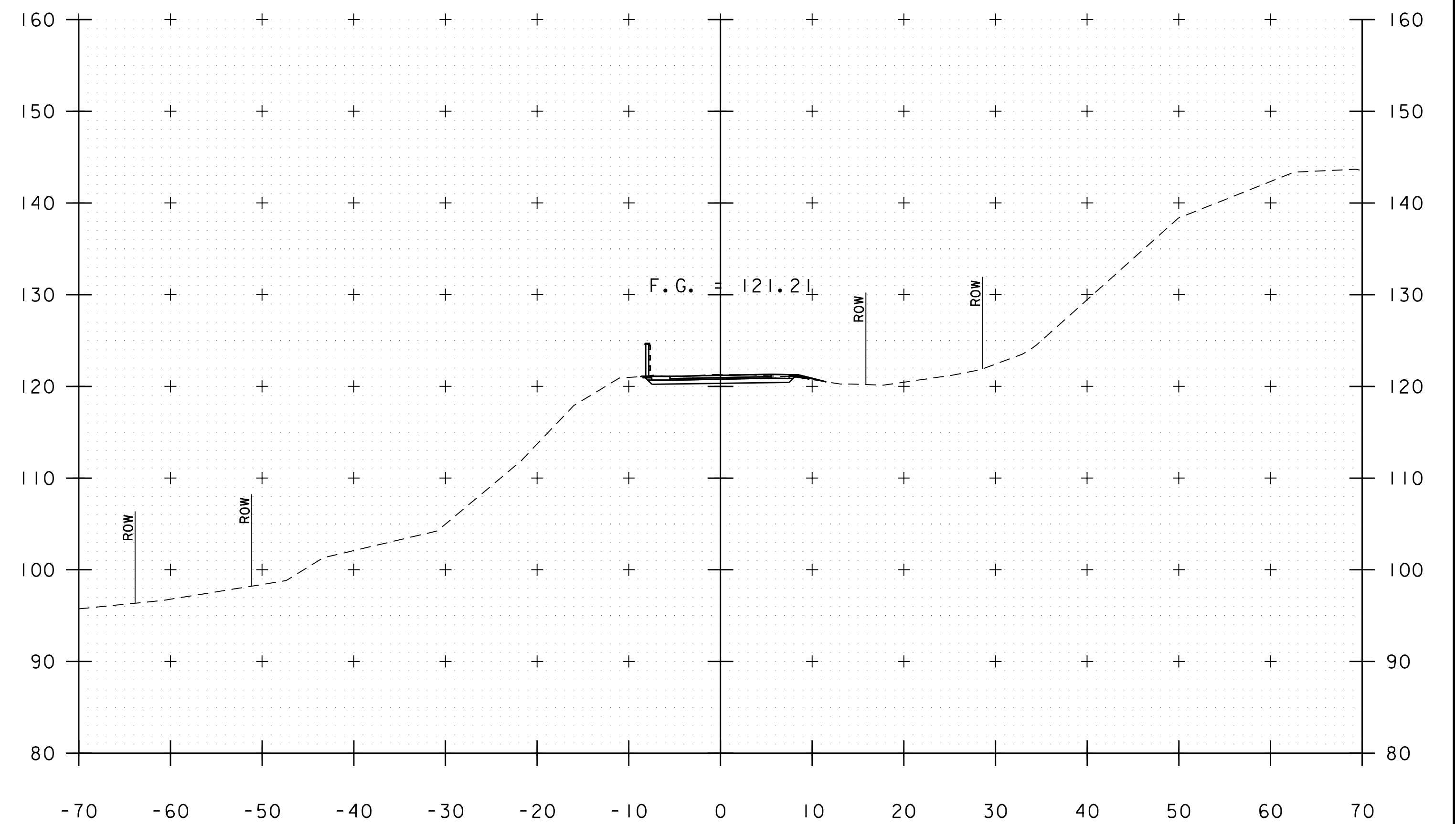
175+00



174+50



176+00



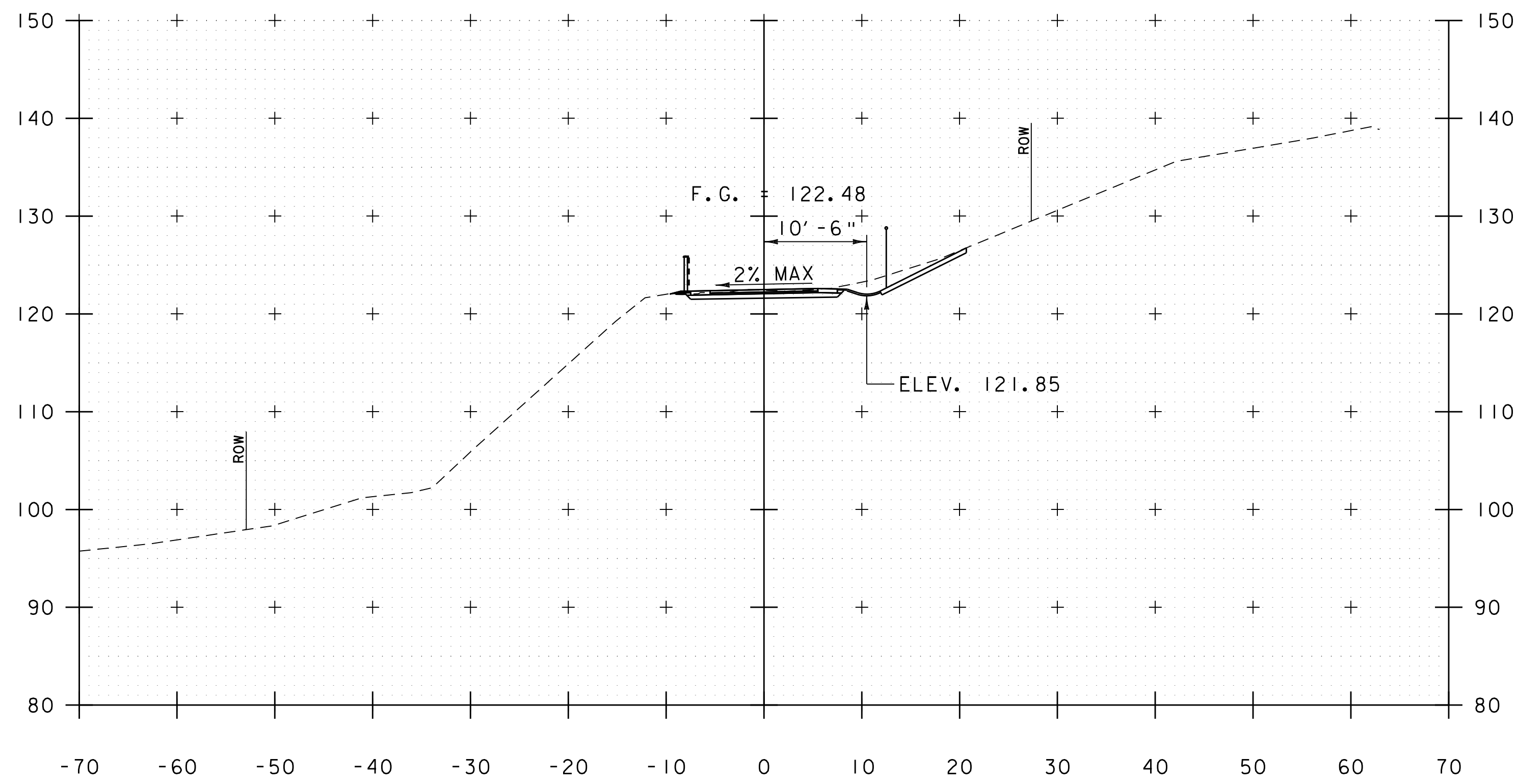
175+50

STA. 174+50 TO STA. 176+00

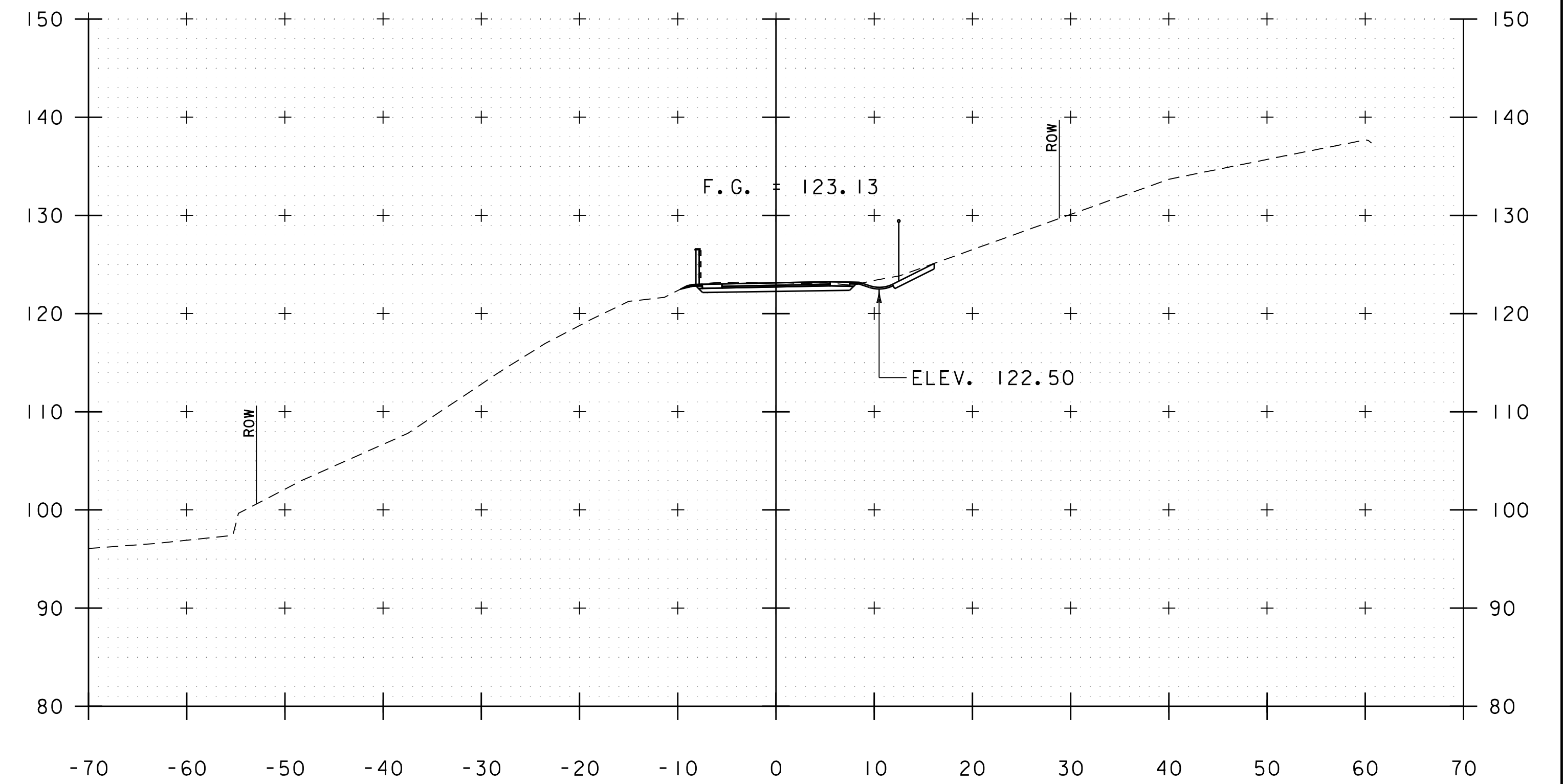


PROJECT NAME: BURLINGTON BIKE PATH	
PROJECT NUMBER: 57634.00	
FILE NAME: z57634xs.dgn	PLOT DATE: 3/23/2016
PROJECT LEADER: M.A. COLGAN	DRAWN BY: P.A. MILLER
DESIGNED BY: D.M. PECK	CHECKED BY: M.A. COLGAN
PATH CROSS SECTIONS (12 OF 18)	SHEET 69 OF 119

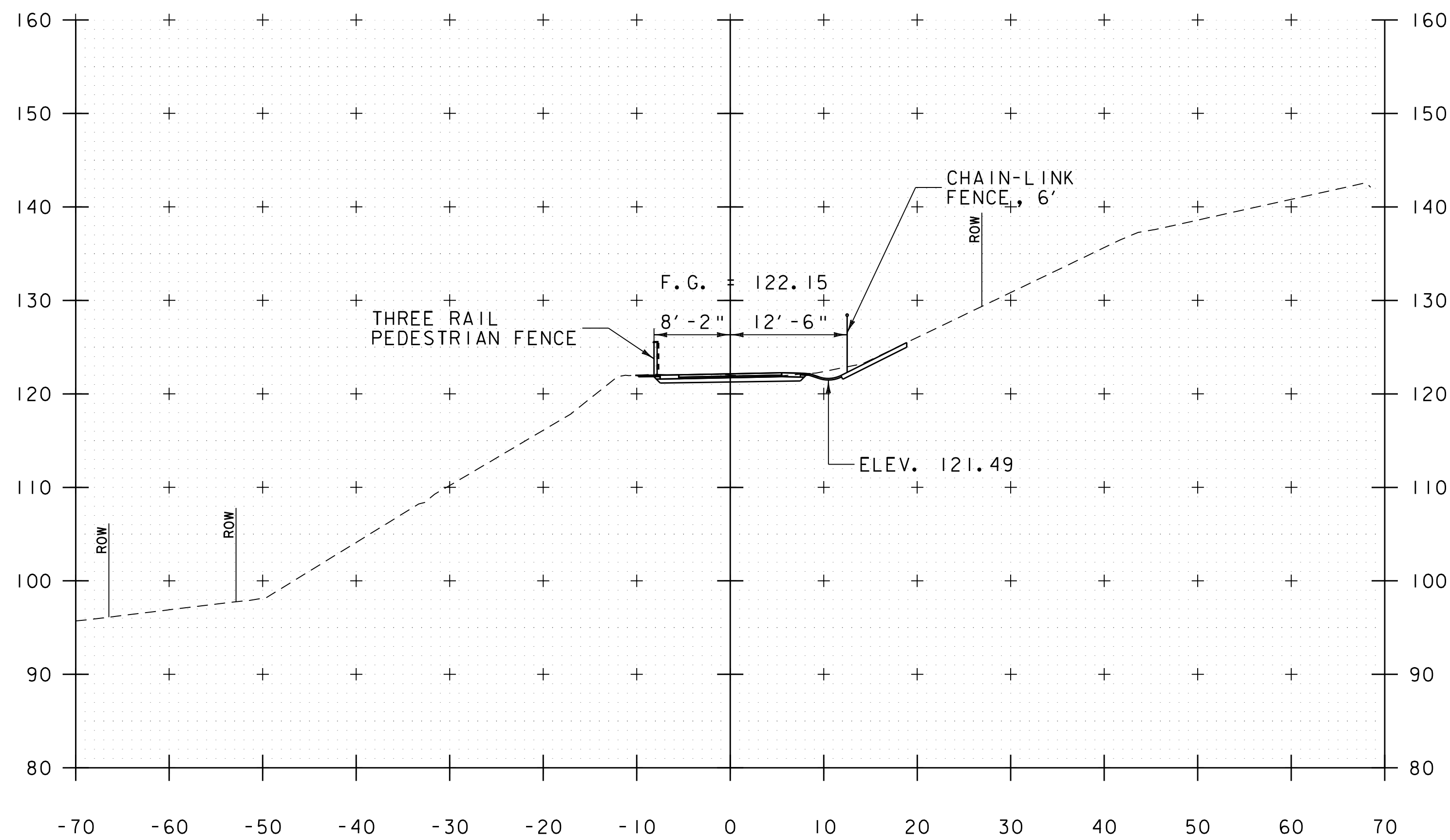




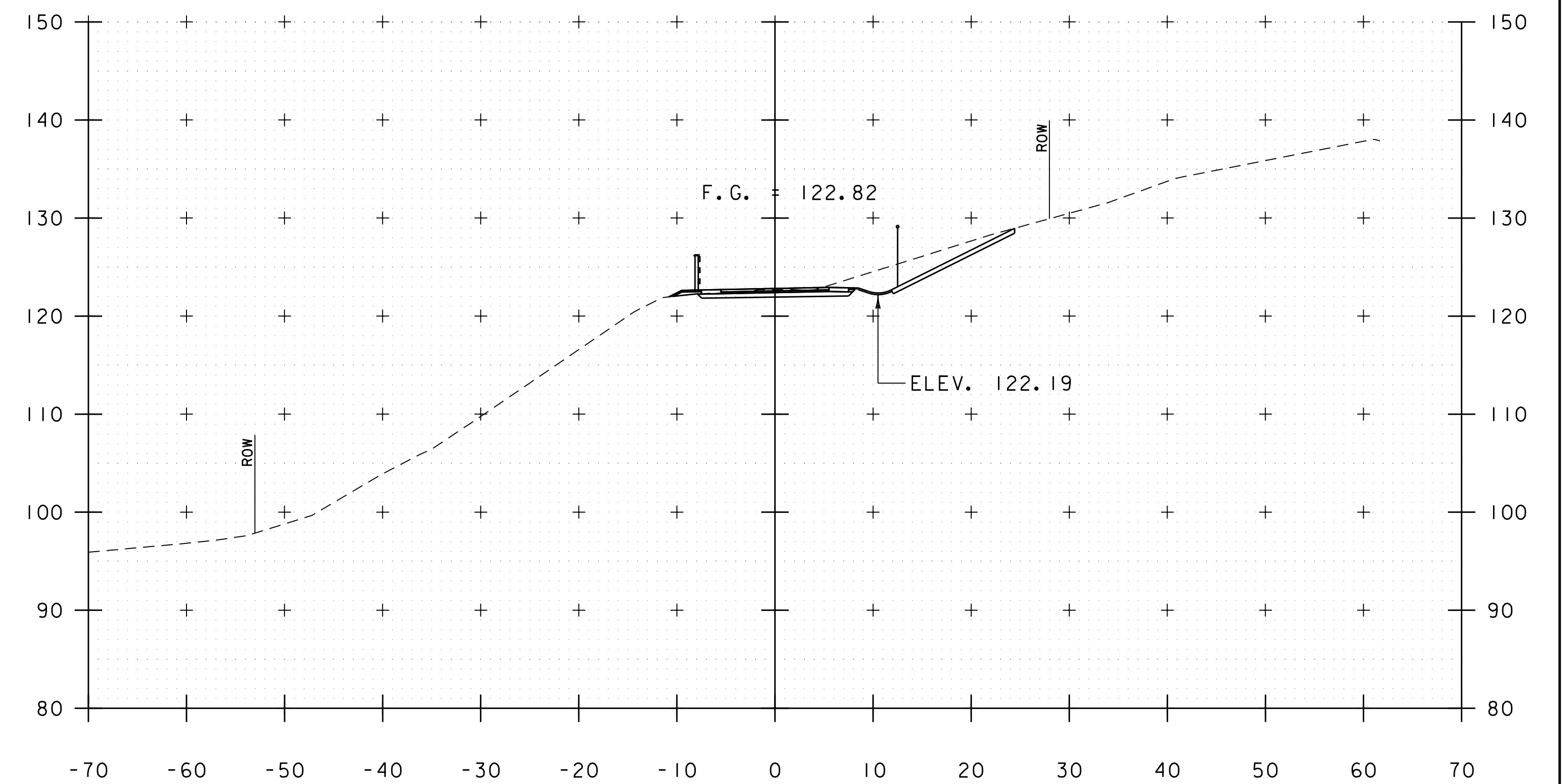
177+00



178+00



176+50



177+50

STA. 176+50 TO STA. 178+00

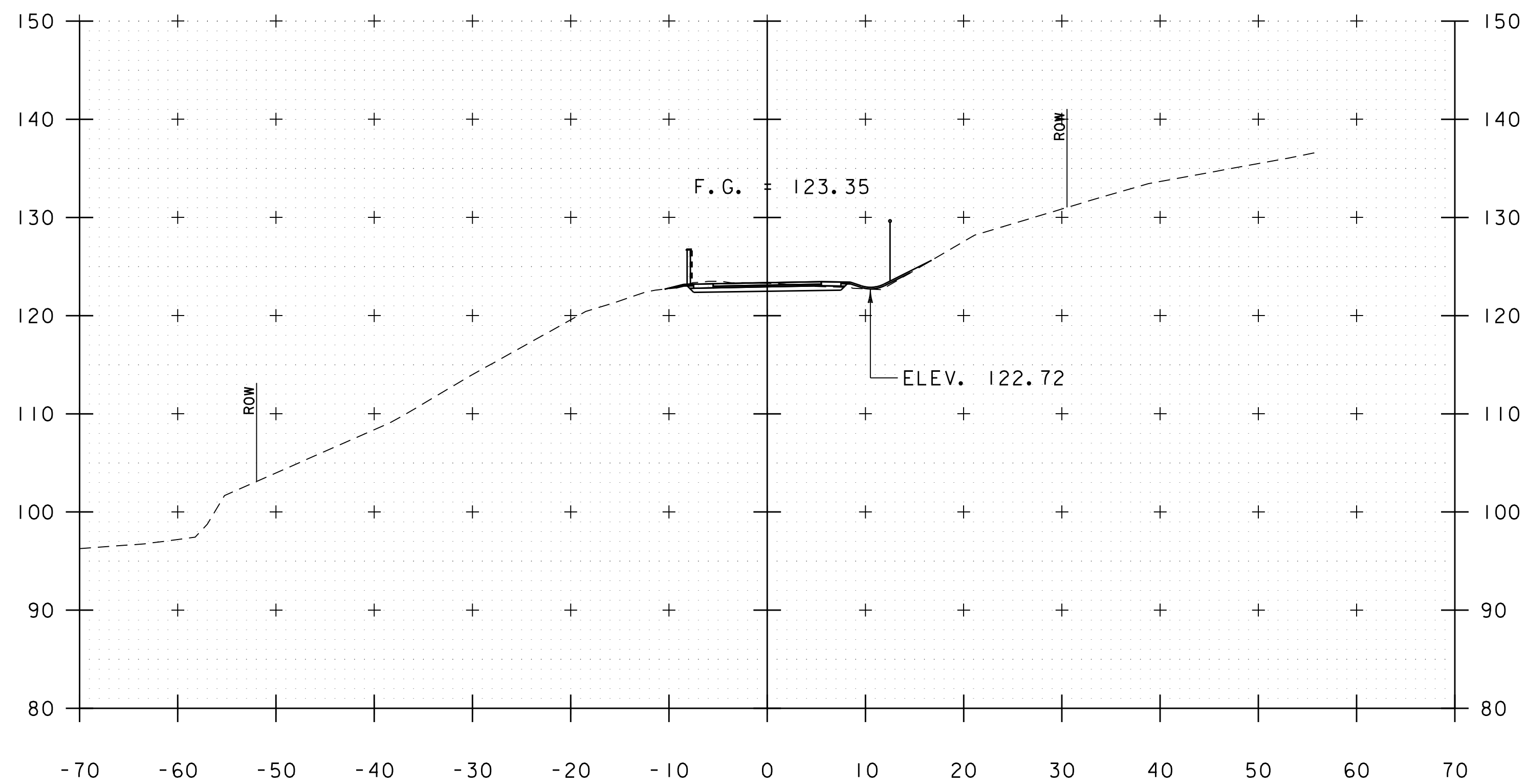


PROJECT NAME: BURLINGTON BIKE PATH  
PROJECT NUMBER: 57634.00

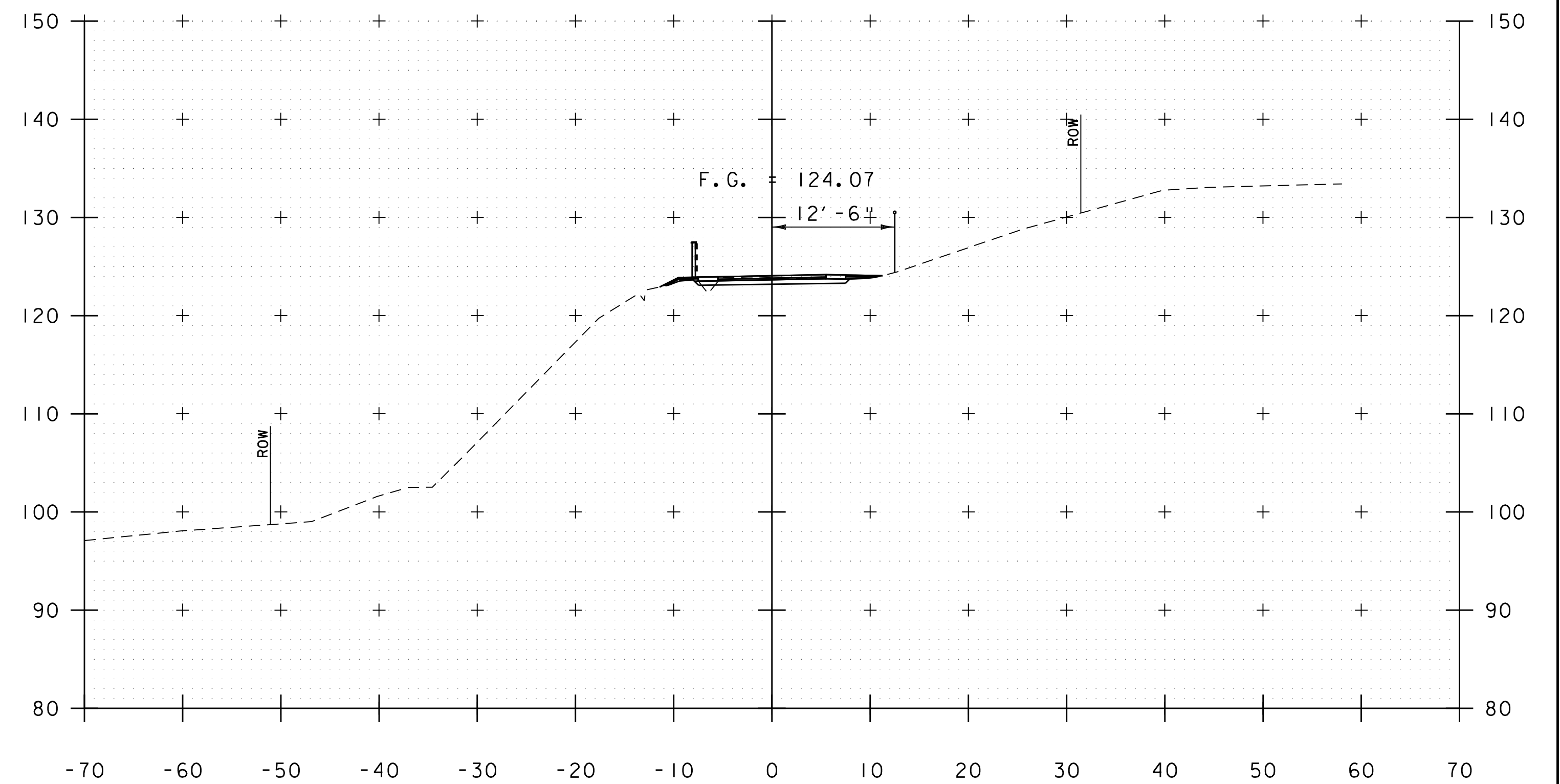
FILE NAME: z57634xs.dgn  
PROJECT LEADER: M.A. COLGAN  
DESIGNED BY: D.M. PECK  
PATH CROSS SECTIONS (13 OF 18)

PLOT DATE: 3/23/2016  
DRAWN BY: P.A. MILLER  
CHECKED BY: M.A. COLGAN  
SHEET 70 OF 119

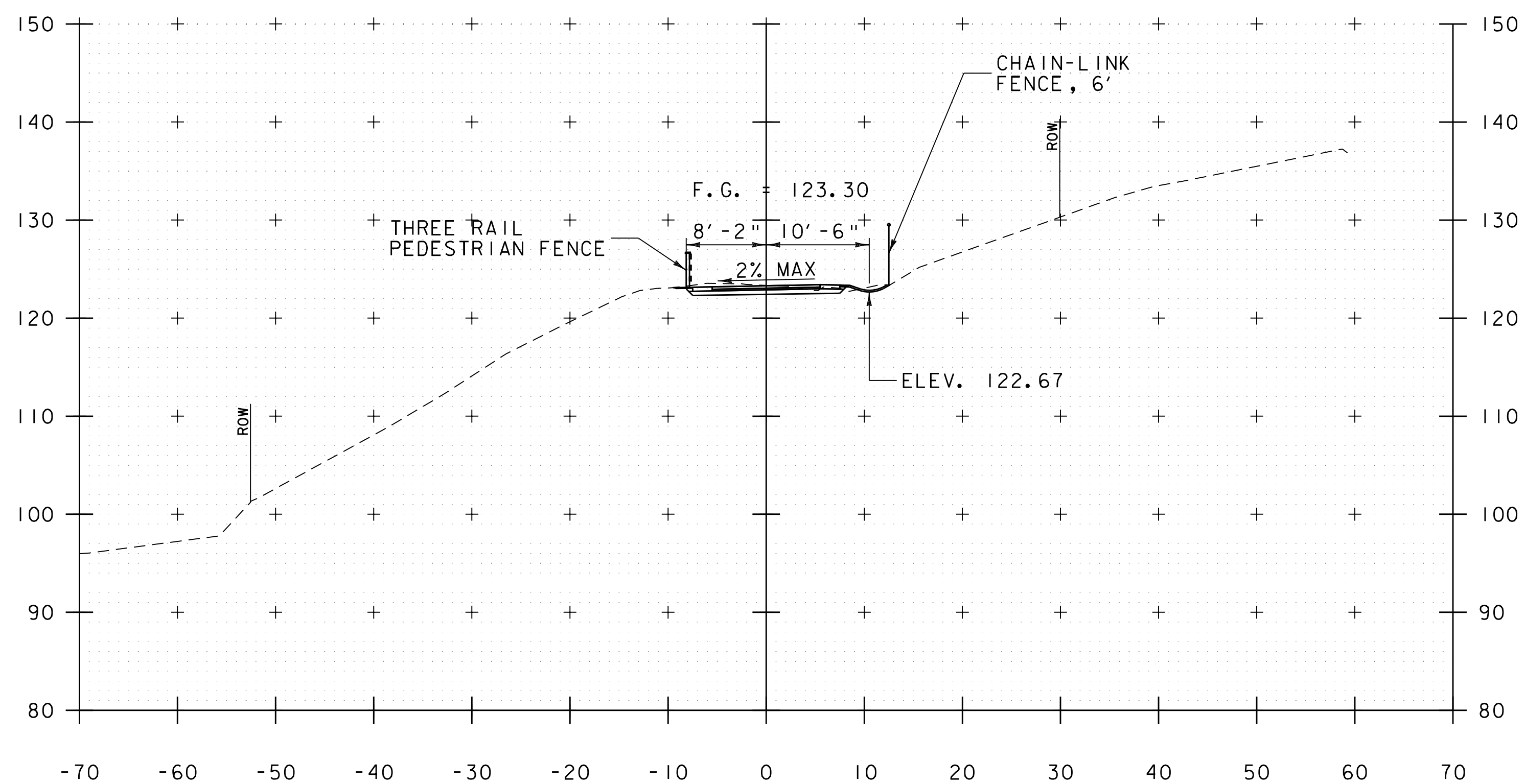




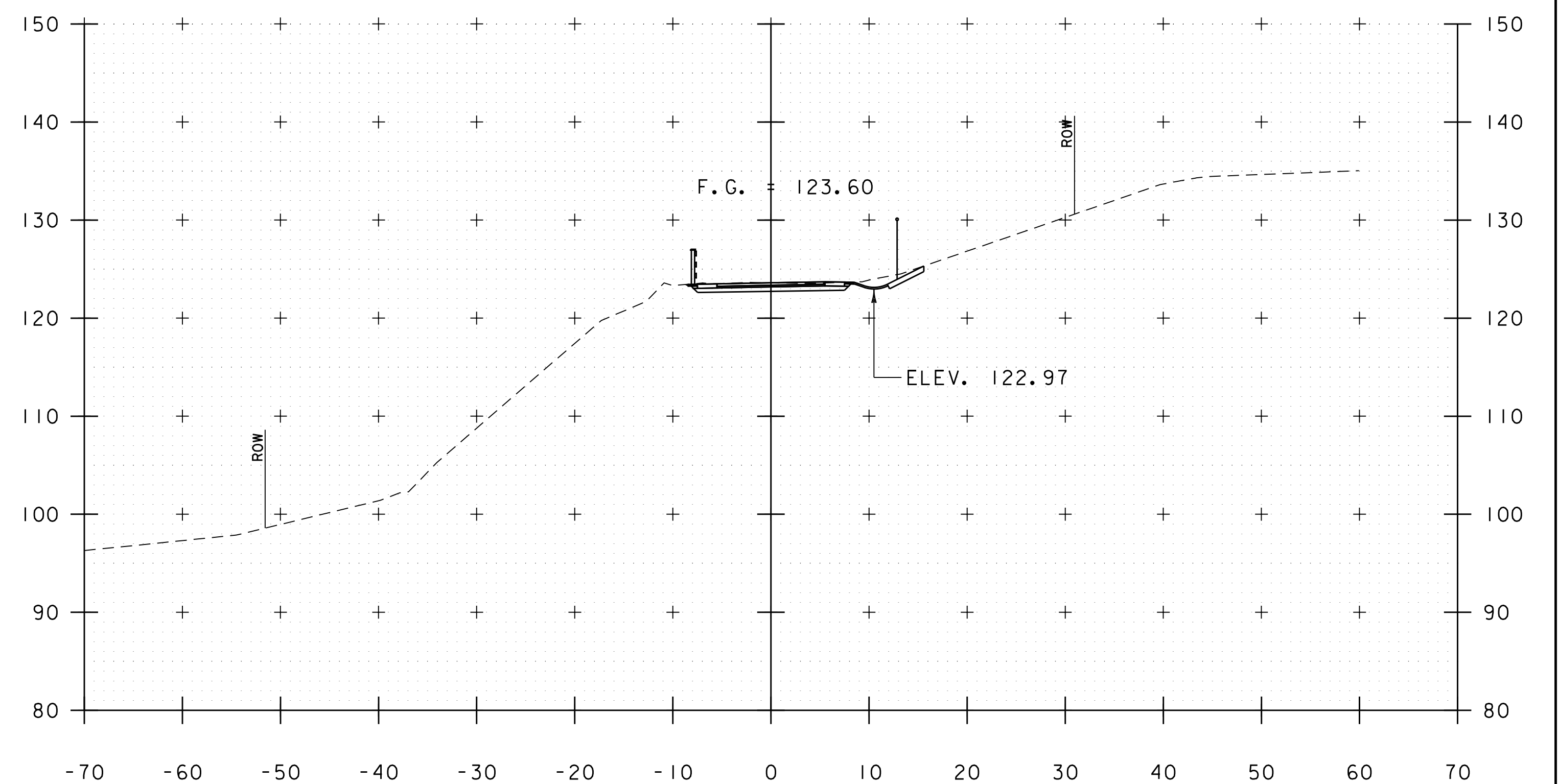
179+00



180+00



178+50



179+50

STA. 178+50 TO STA. 180+00



PROJECT NAME: BURLINGTON BIKE PATH

PROJECT NUMBER: 57634.00

FILE NAME: z57634xs.dgn

PROJECT LEADER: M.A. COLGAN

DESIGNED BY: D.M. PECK

PATH CROSS SECTIONS (14 OF 18)

PLOT DATE: 3/23/2016

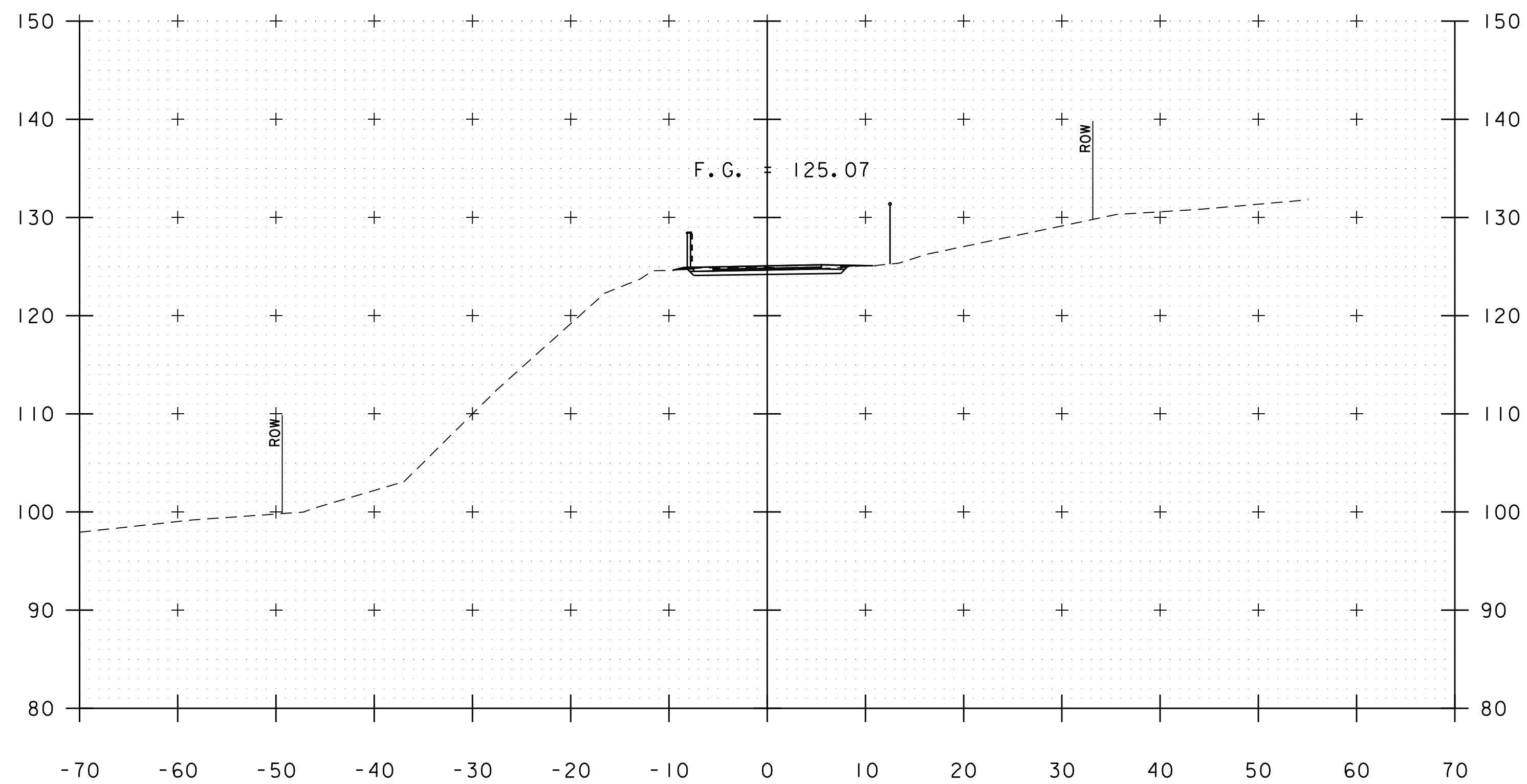
DRAWN BY: P.A. MILLER

CHECKED BY: M.A. COLGAN

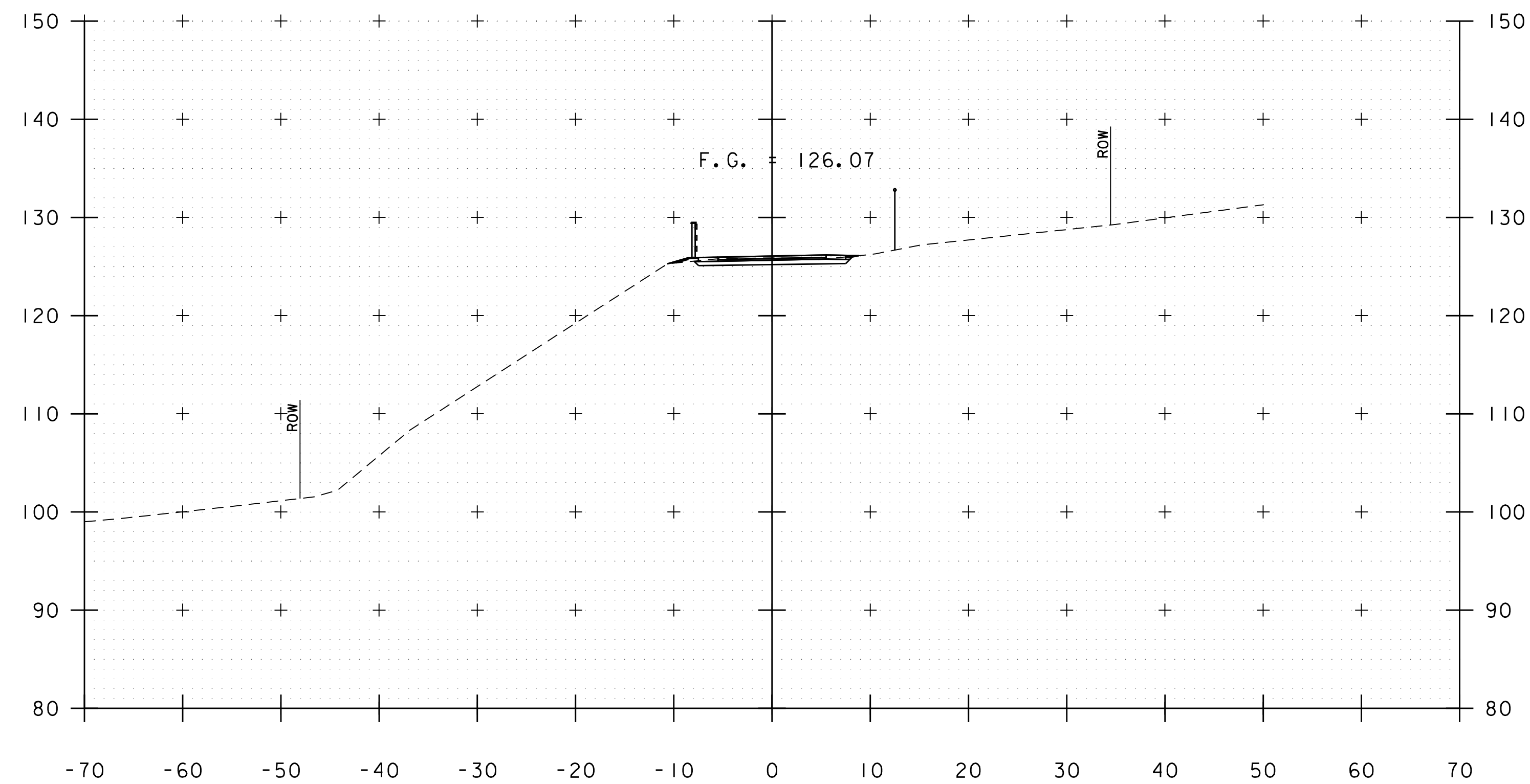
SHEET 71 OF 119

VHB 57634.00

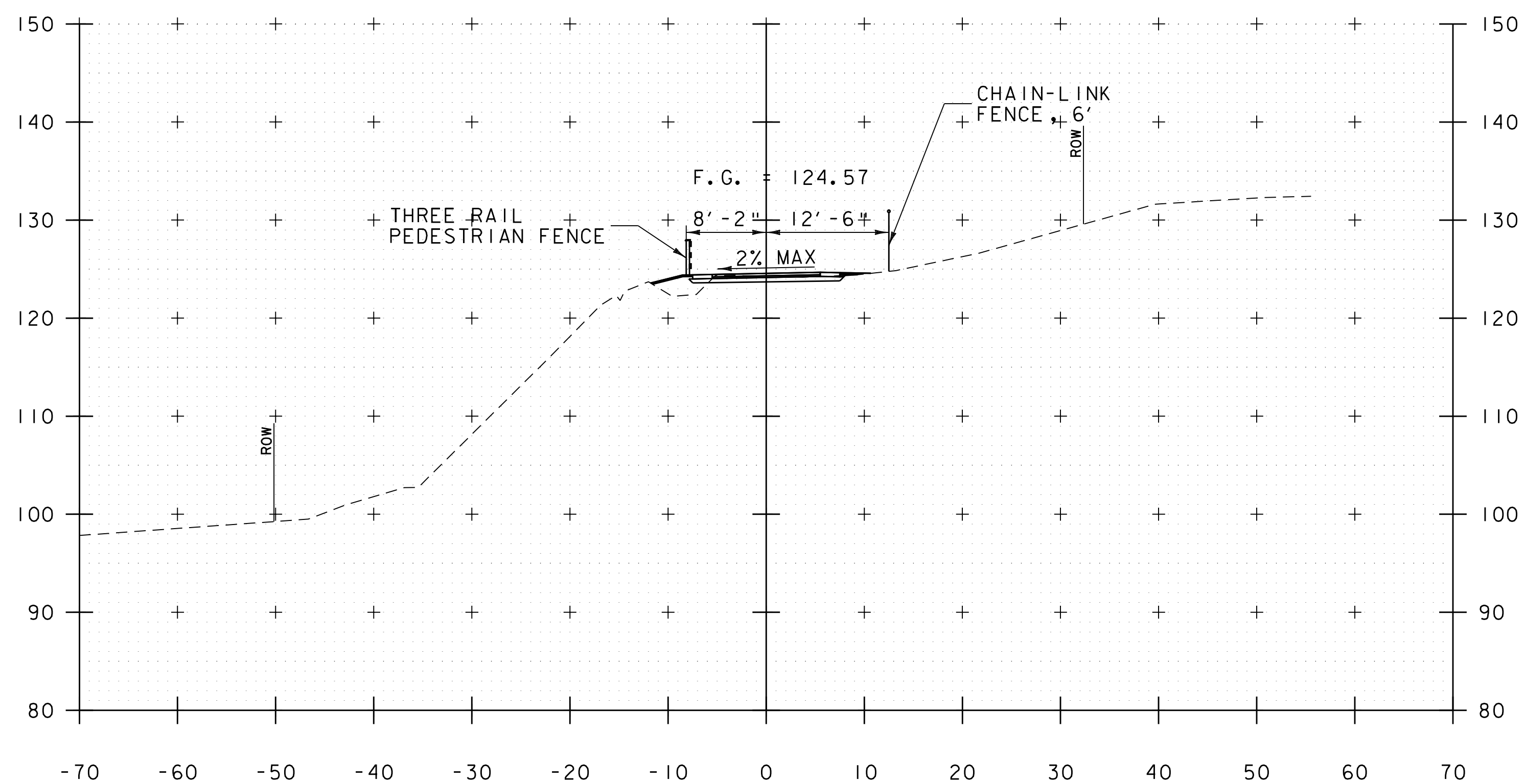




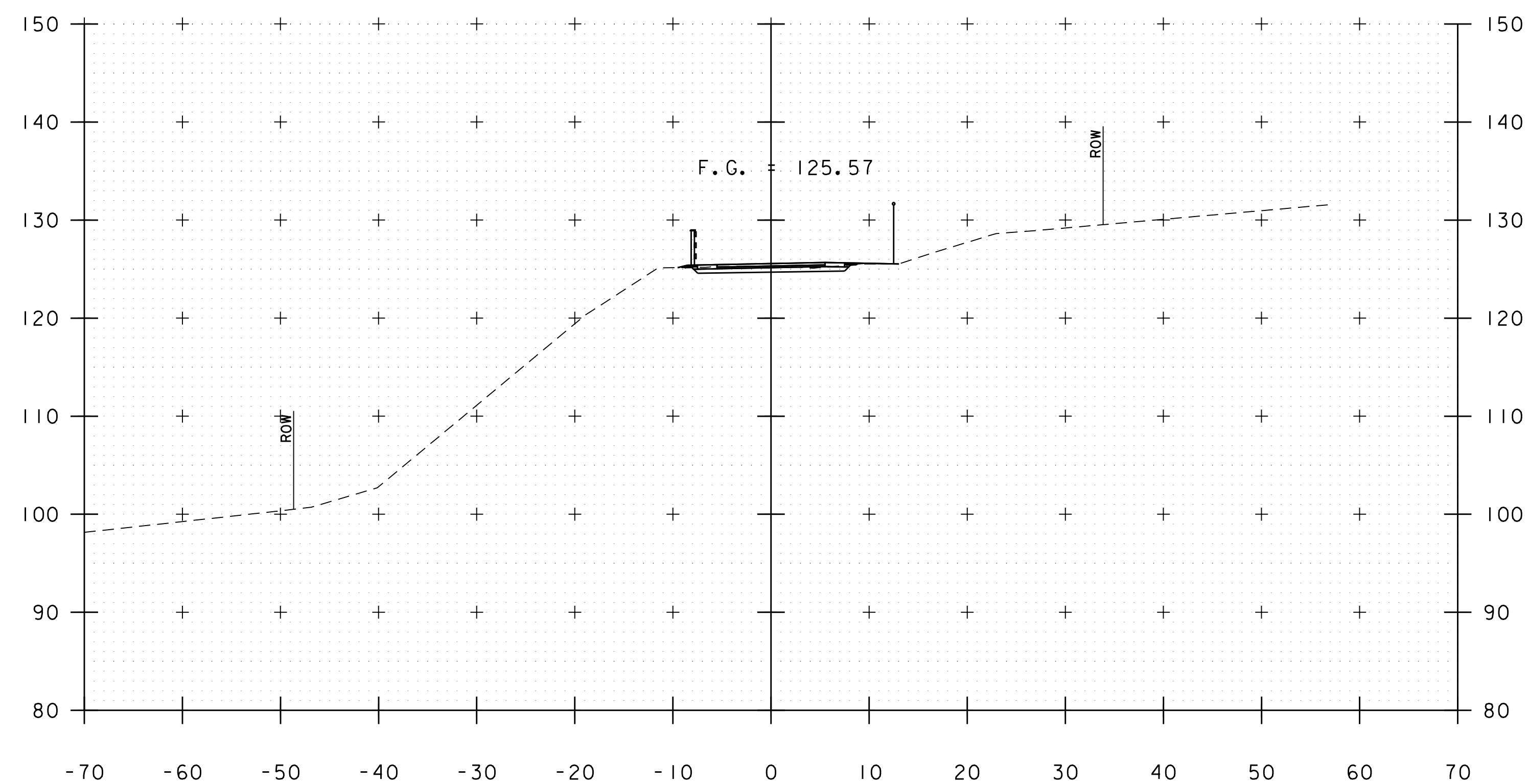
181+00



182+00



180+50



181+50

STA. 180+50 TO STA. 182+00

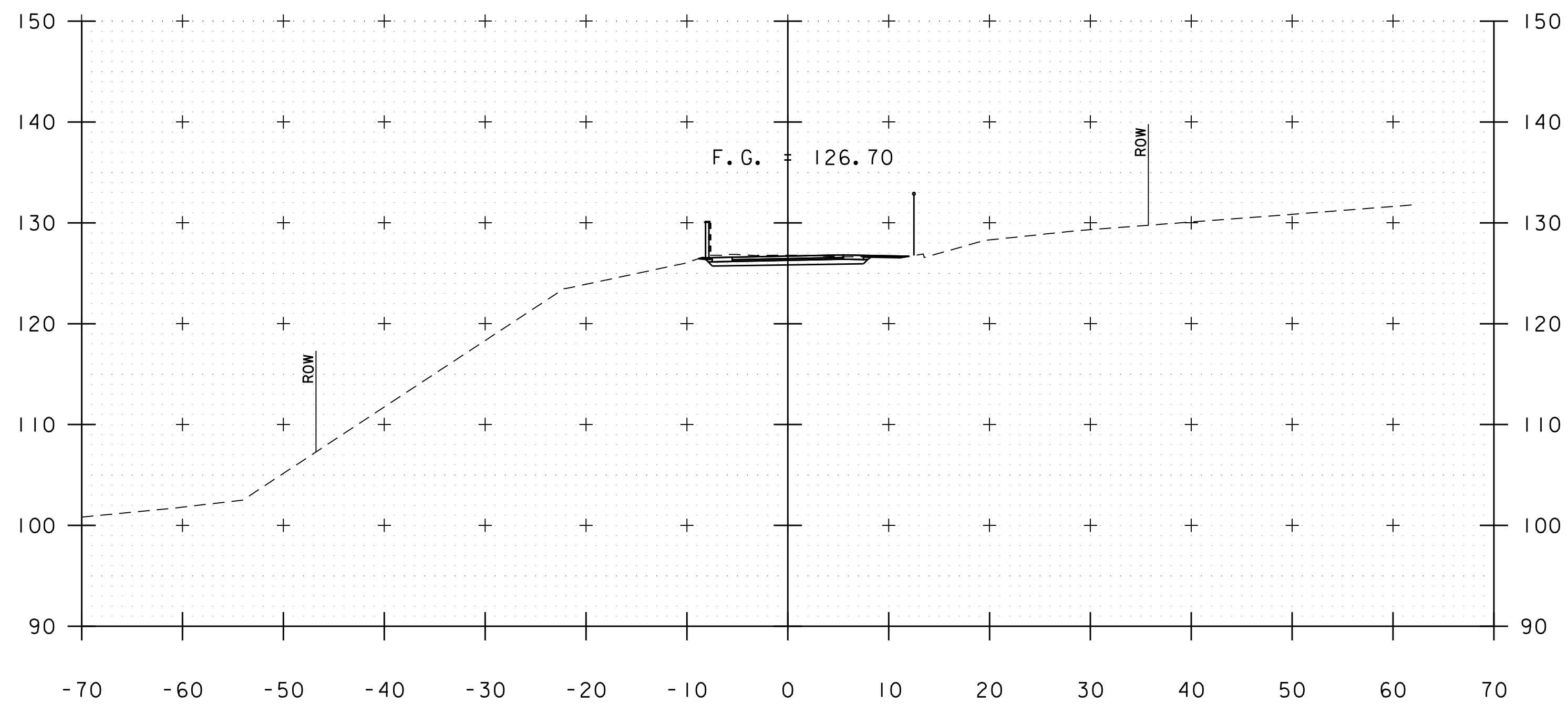


PROJECT NAME: BURLINGTON BIKE PATH  
PROJECT NUMBER: 57634.00

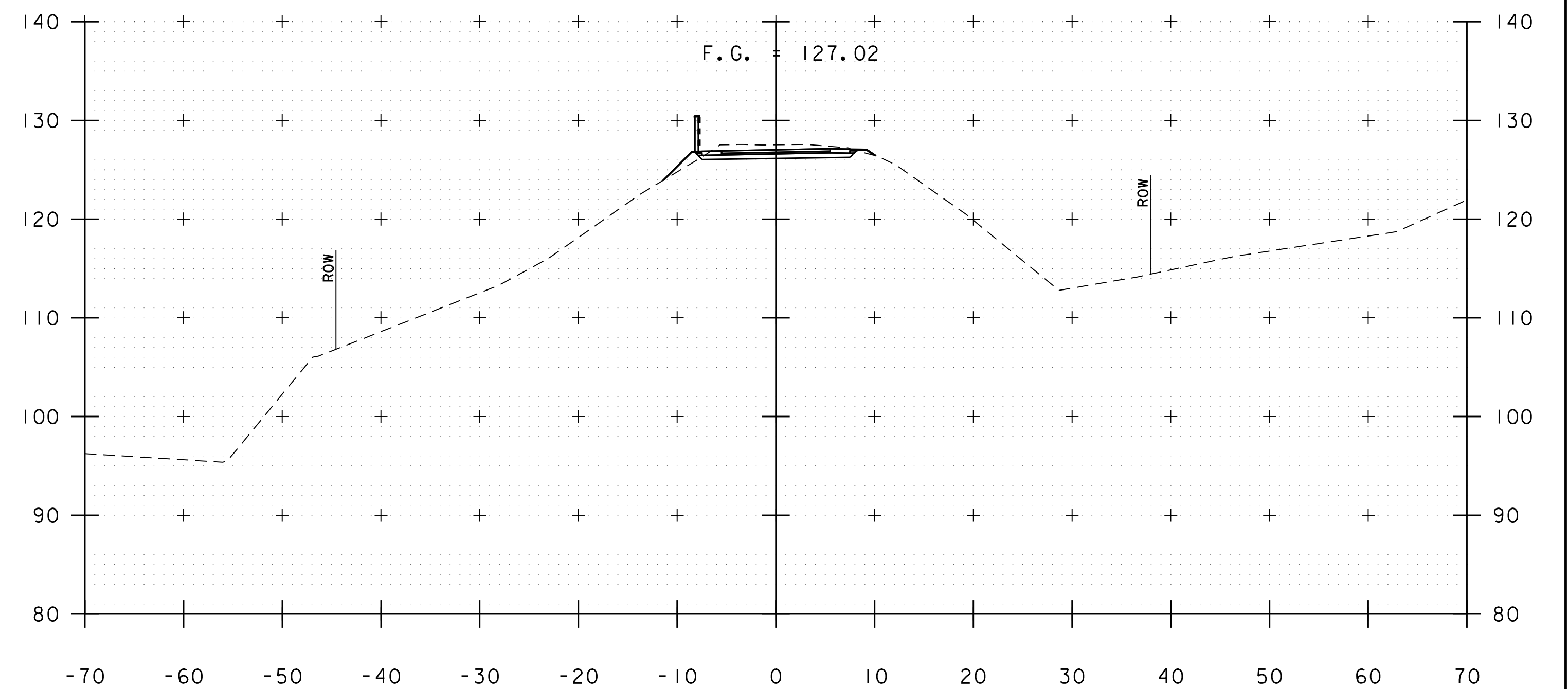
FILE NAME: z57634xs.dgn  
PROJECT LEADER: M.A. COLGAN  
DESIGNED BY: D.M. PECK  
PATH CROSS SECTIONS (15 OF 18)

PLOT DATE: 3/23/2016  
DRAWN BY: P.A. MILLER  
CHECKED BY: M.A. COLGAN  
SHEET 72 OF 119

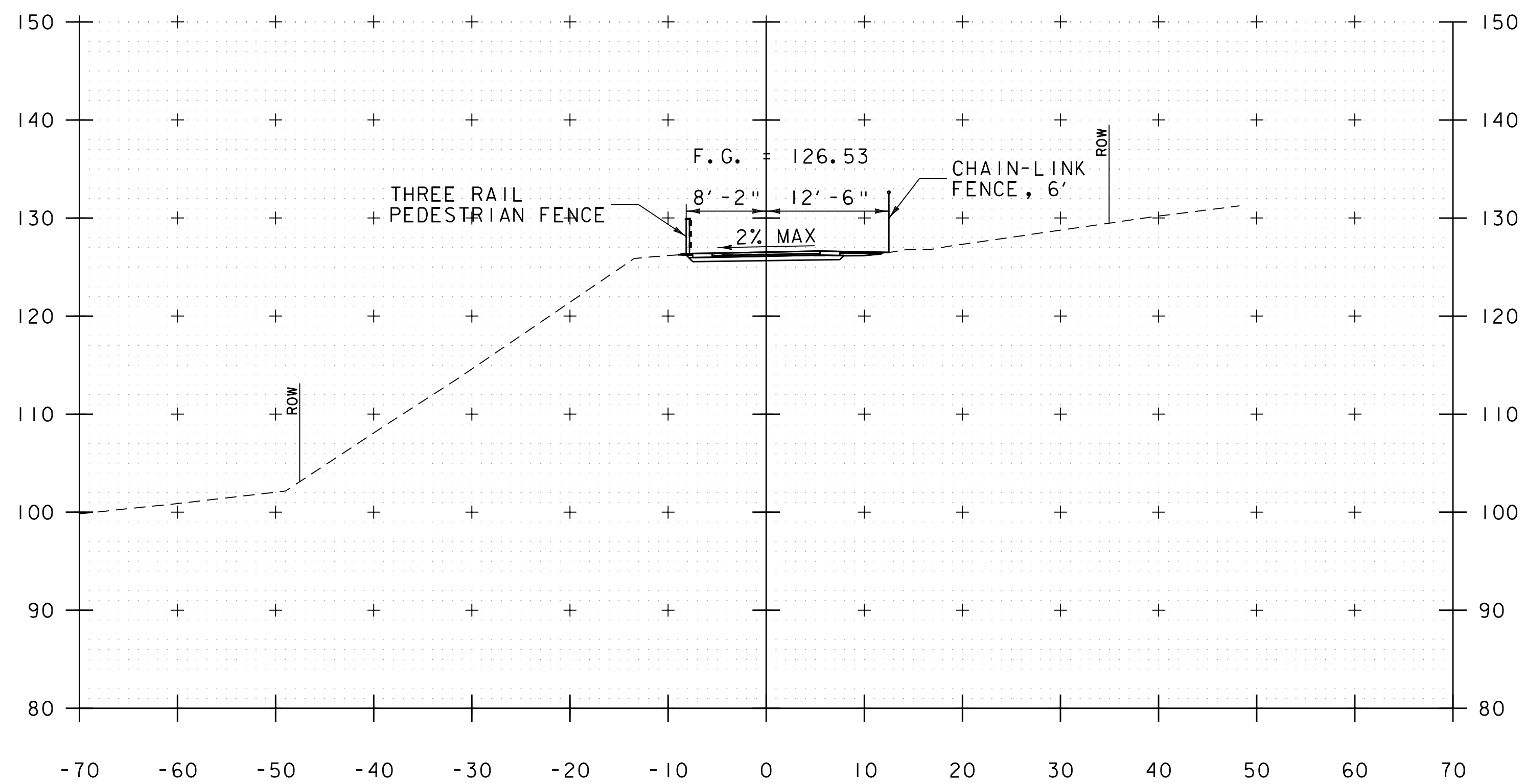




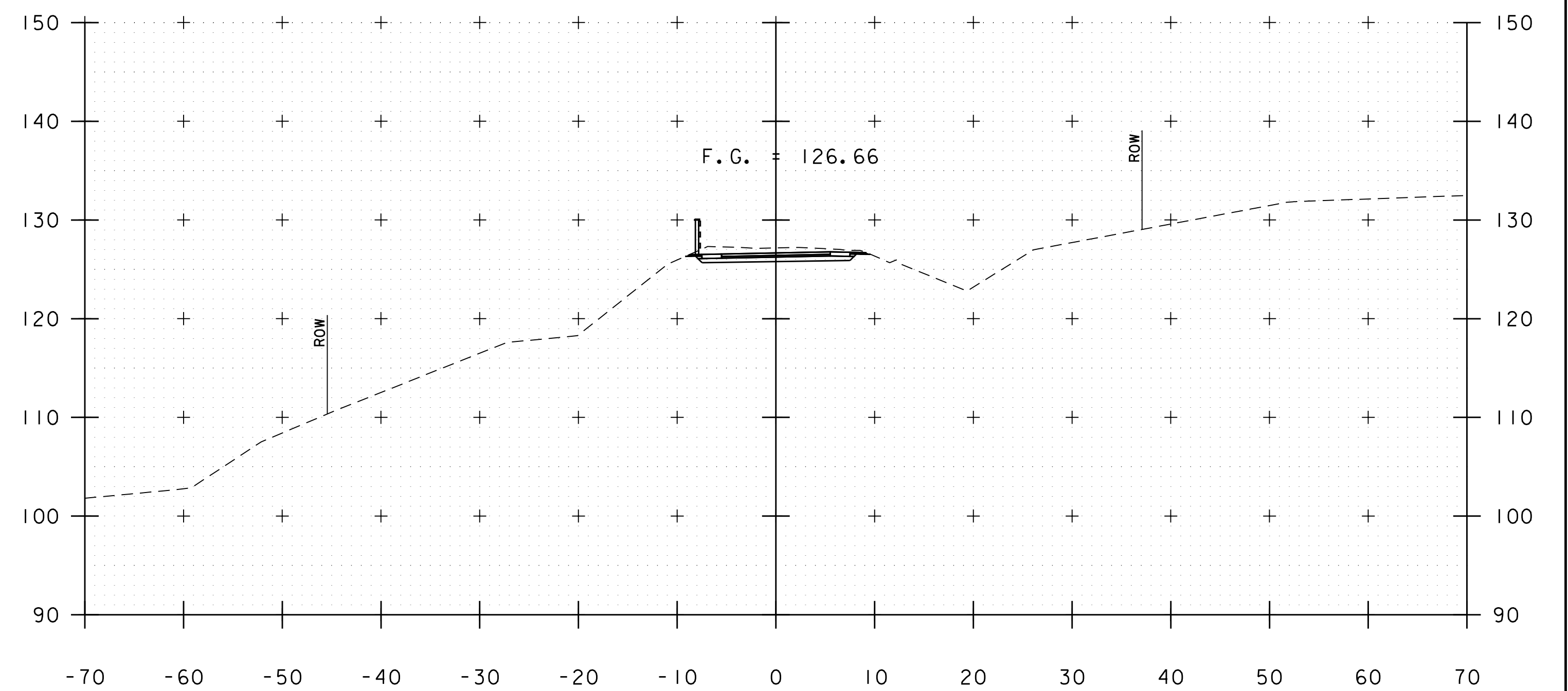
183+00



184+00



182+50



183+50

STA. 182+50 TO STA. 184+00



PROJECT NAME: BURLINGTON BIKE PATH

PROJECT NUMBER: 57634.00

FILE NAME: z57634xs.dgn

PROJECT LEADER: M.A. COLGAN

DESIGNED BY: D.M. PECK

PATH CROSS SECTIONS (16 OF 18)

PLOT DATE: 3/23/2016

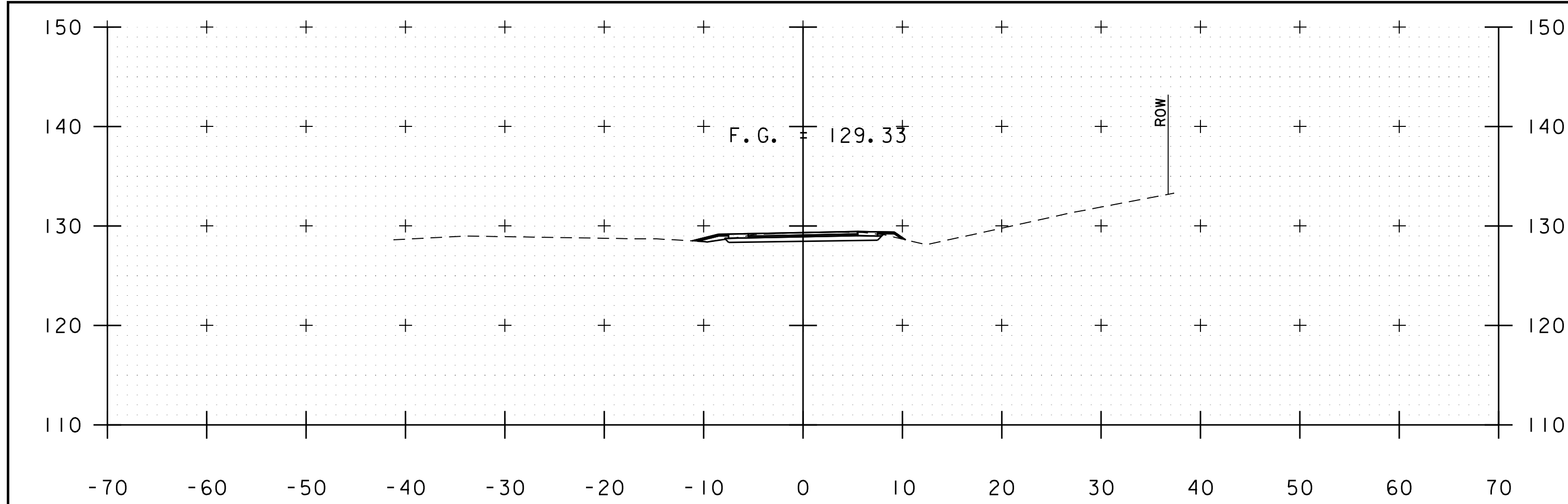
DRAWN BY: P.A. MILLER

CHECKED BY: M.A. COLGAN

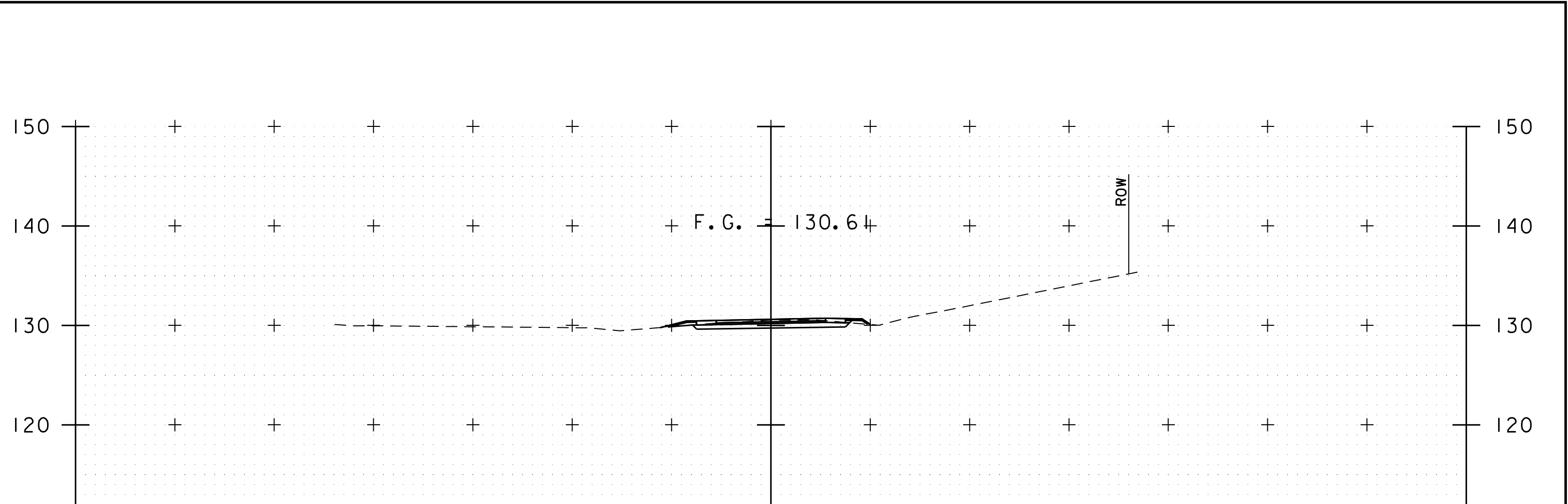
SHEET 73 OF 119

VHB 57634.00

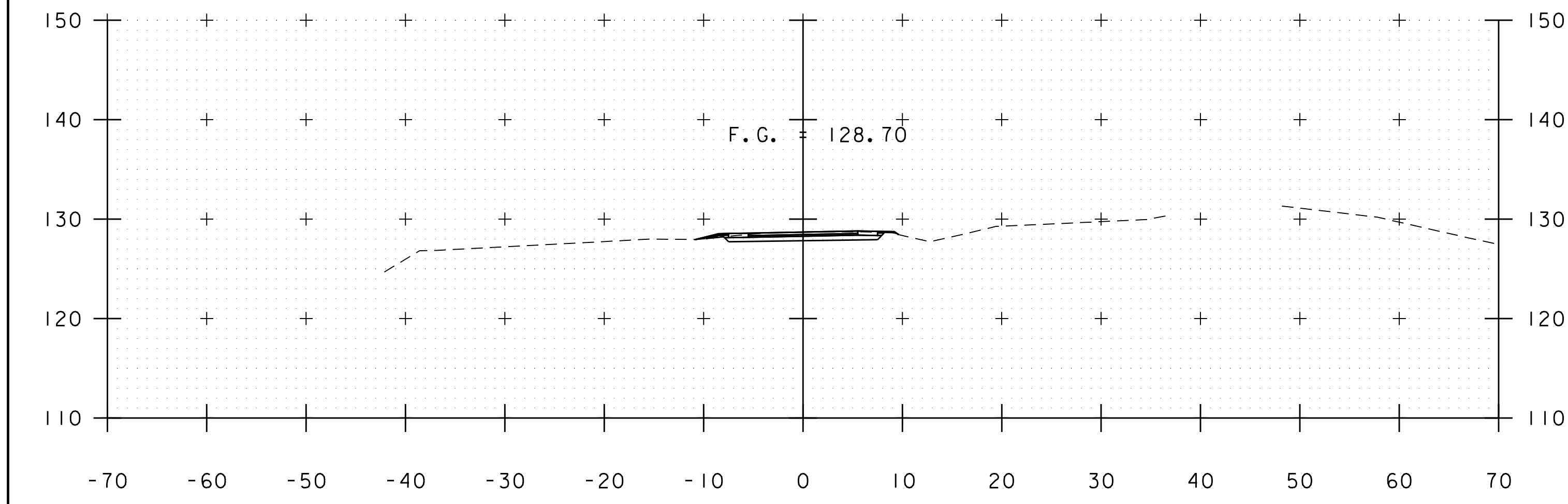




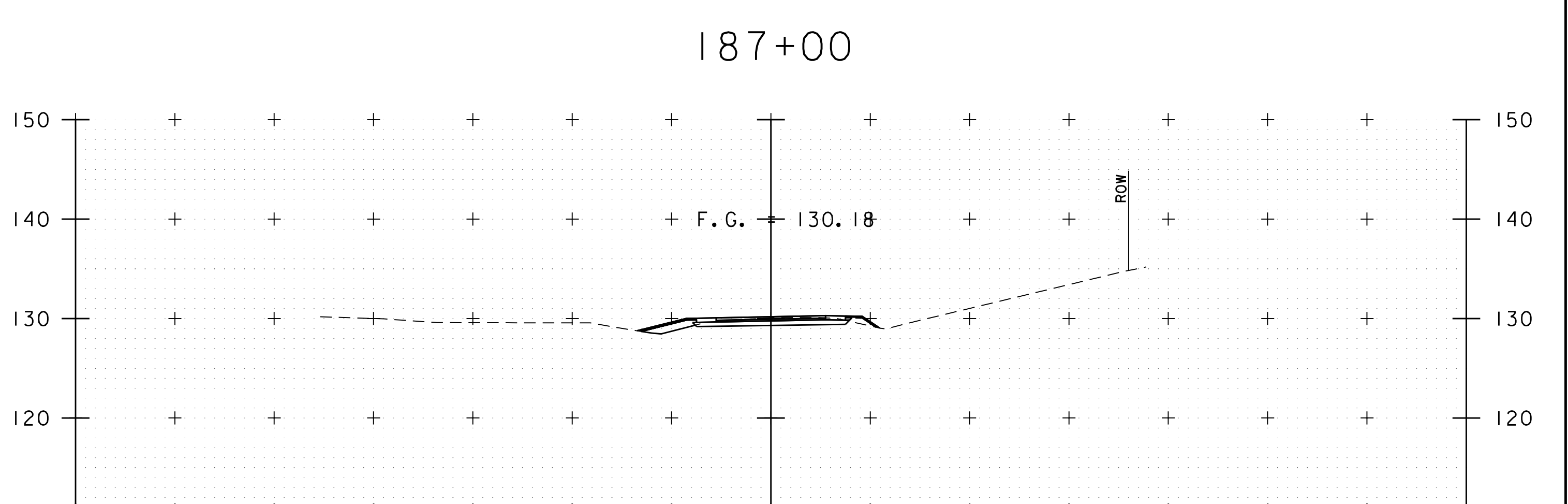
185+50



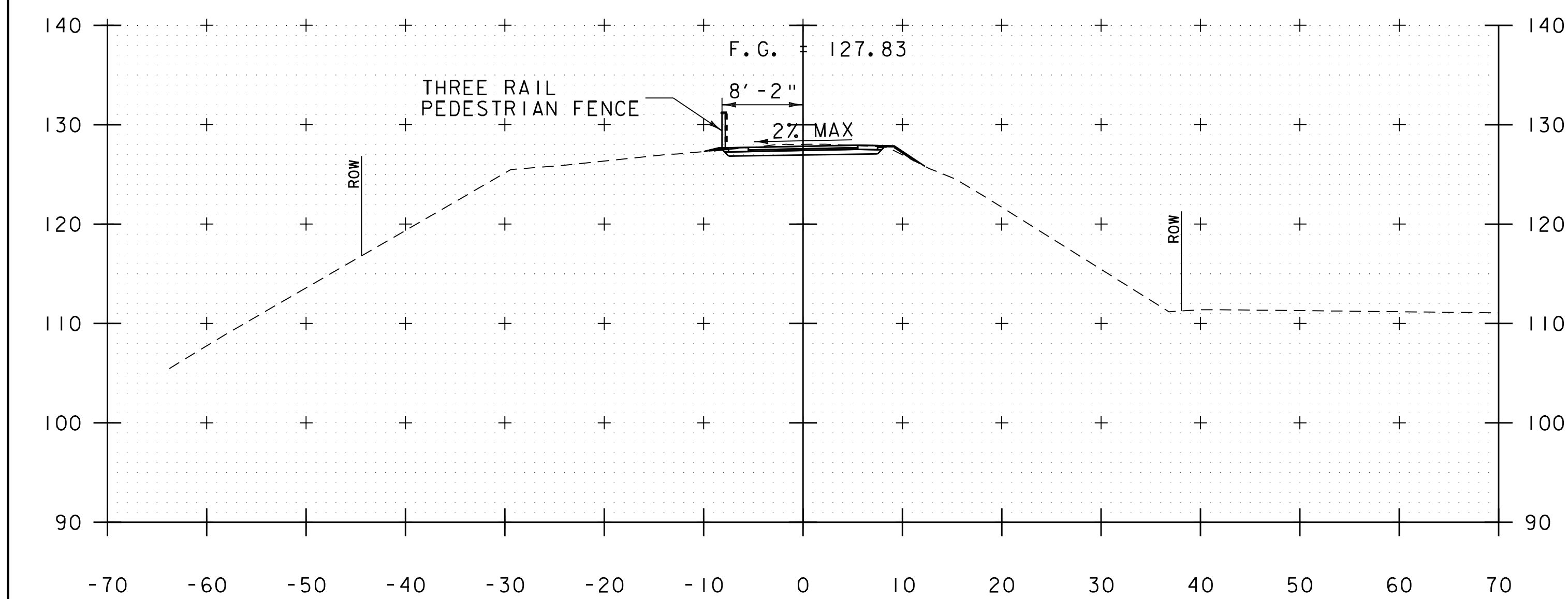
187+00



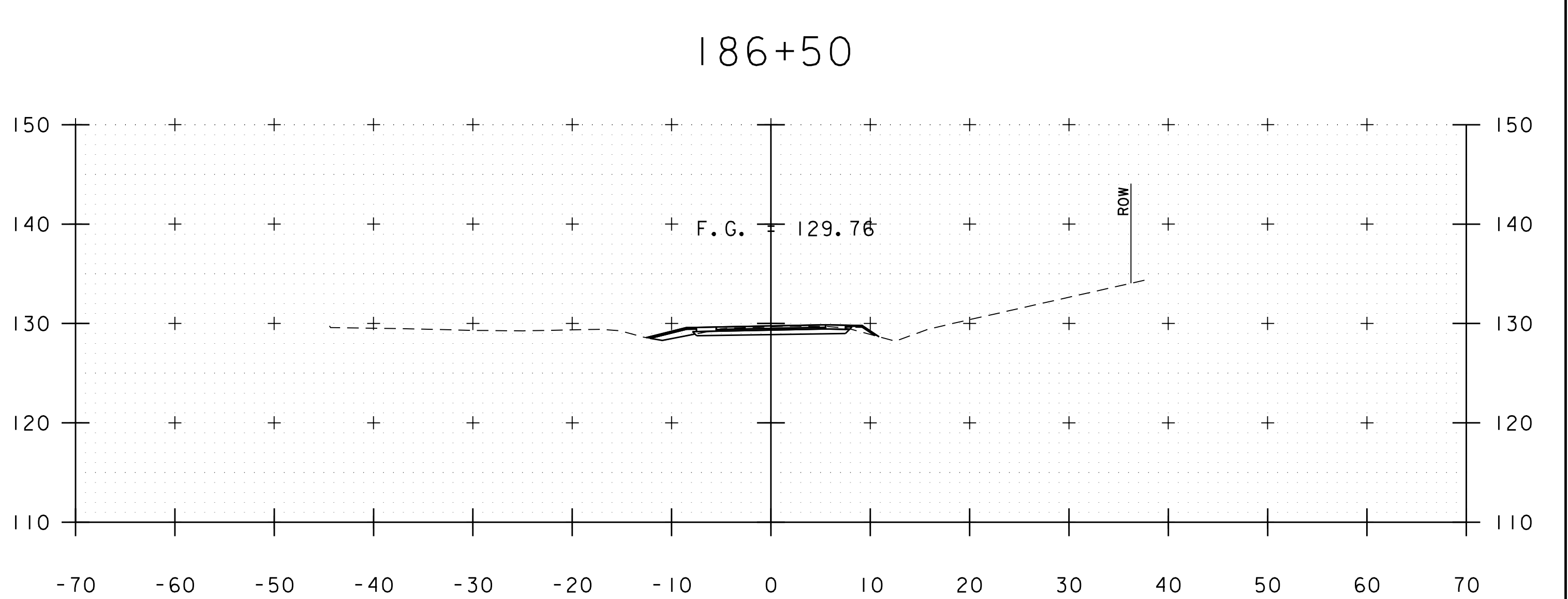
185+00



186+50



184+50



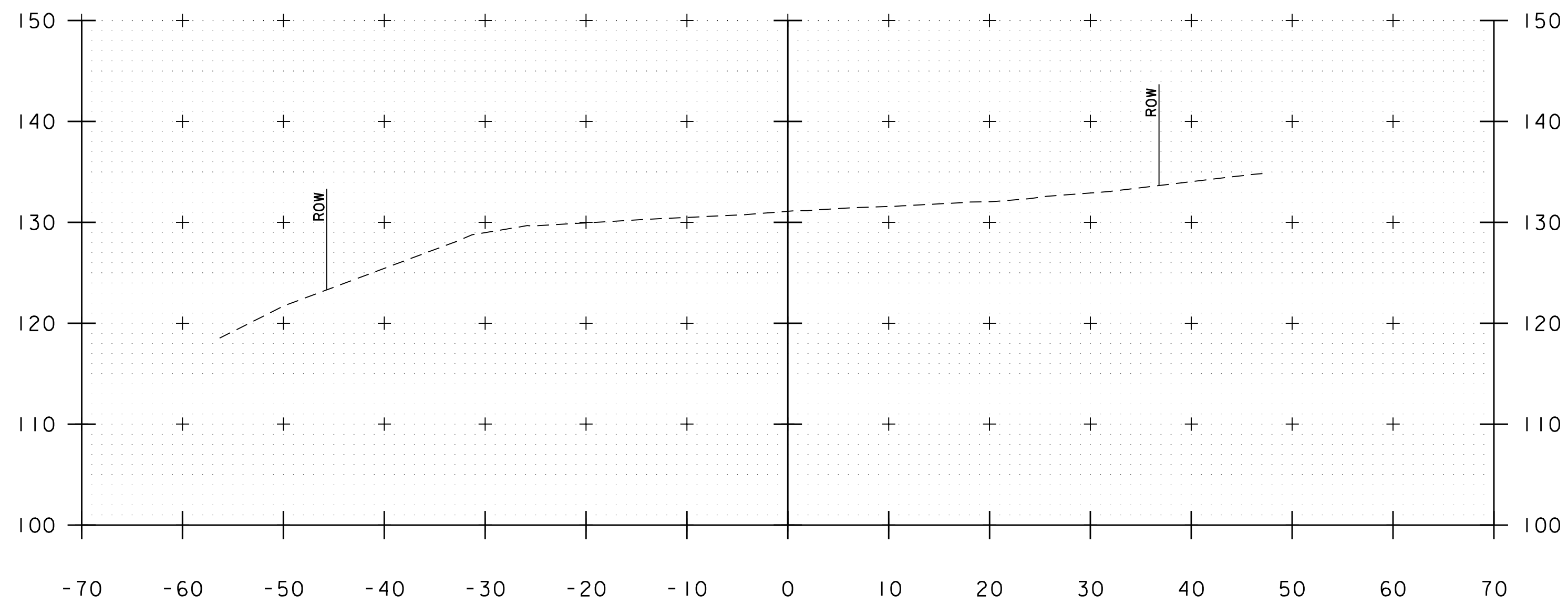
186+00

STA. 184+50 TO STA. 187+00

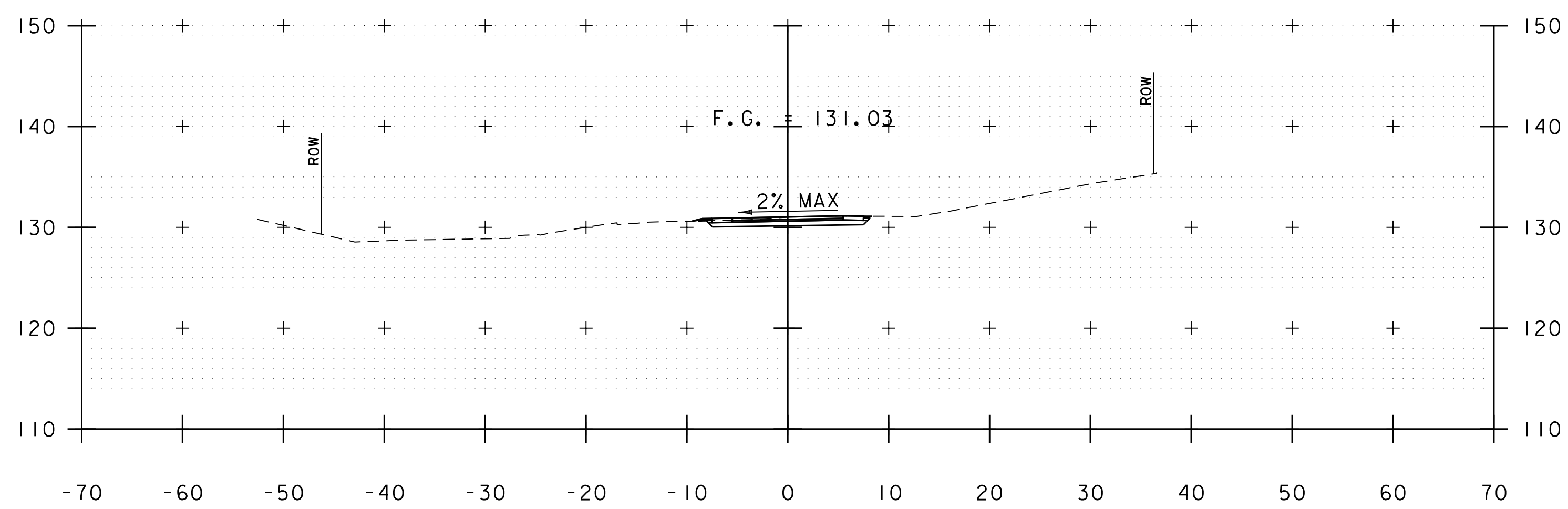


PROJECT NAME: BURLINGTON BIKE PATH	
PROJECT NUMBER: 57634.00	
FILE NAME: z57634xs.dgn	PLOT DATE: 3/23/2016
PROJECT LEADER: M.A. COLGAN	DRAWN BY: P.A. MILLER
DESIGNED BY: D.M. PECK	CHECKED BY: M.A. COLGAN
PATH CROSS SECTIONS (17 OF 18)	SHEET 74 OF 119





188+00



187+50

STA. 187+50 TO STA. 188+00

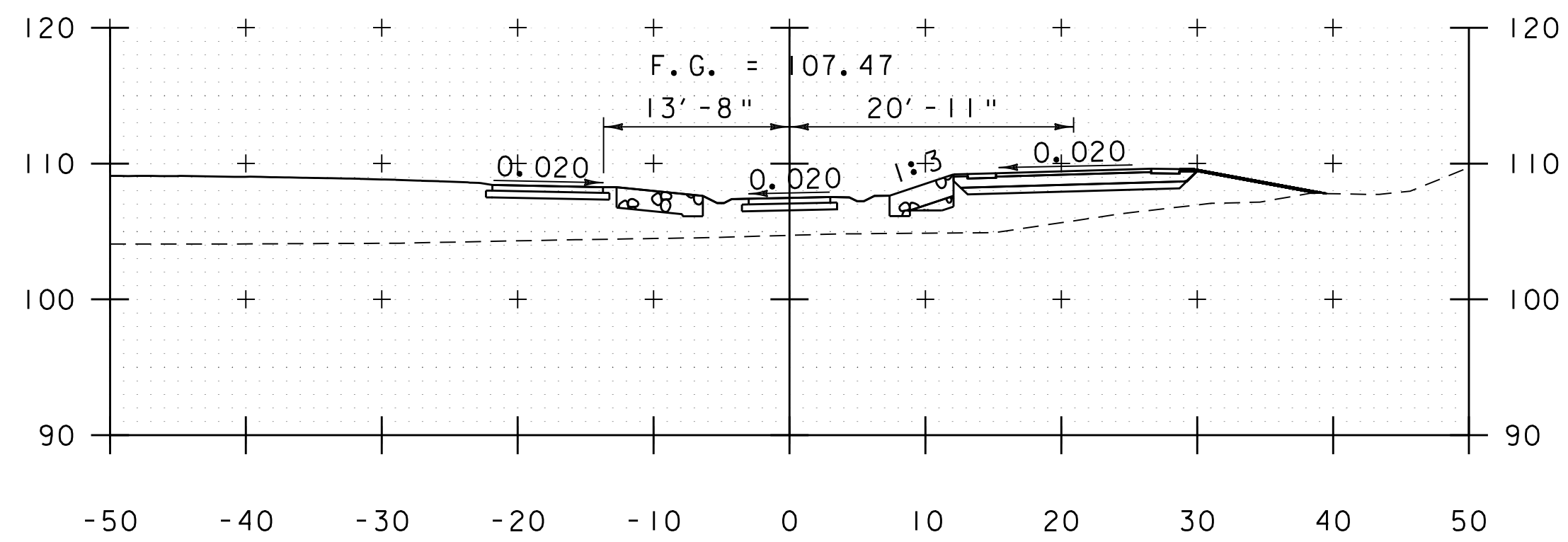


PROJECT NAME: BURLINGTON BIKE PATH  
PROJECT NUMBER: 57634.00

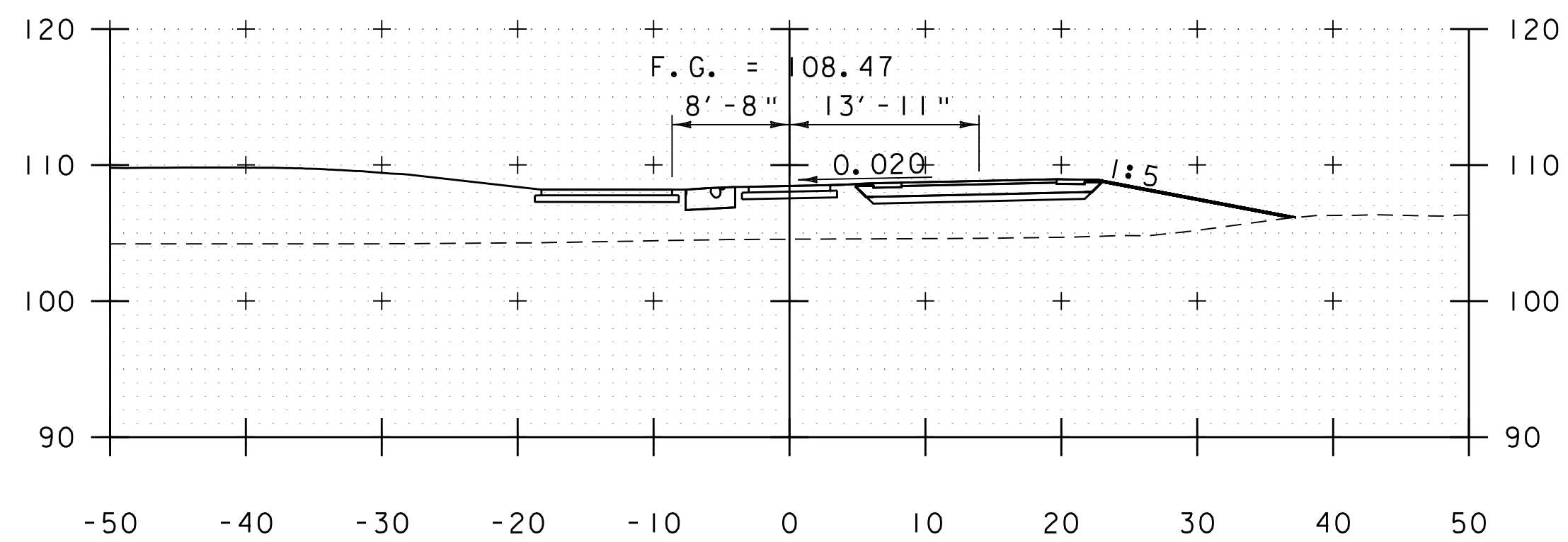
FILE NAME: z57634xs.dgn  
PROJECT LEADER: M.A. COLGAN  
DESIGNED BY: D.M. PECK  
PATH CROSS SECTIONS (18 OF 18)

PLOT DATE: 3/23/2016  
DRAWN BY: P.A. MILLER  
CHECKED BY: M.A. COLGAN  
SHEET 75 OF 119

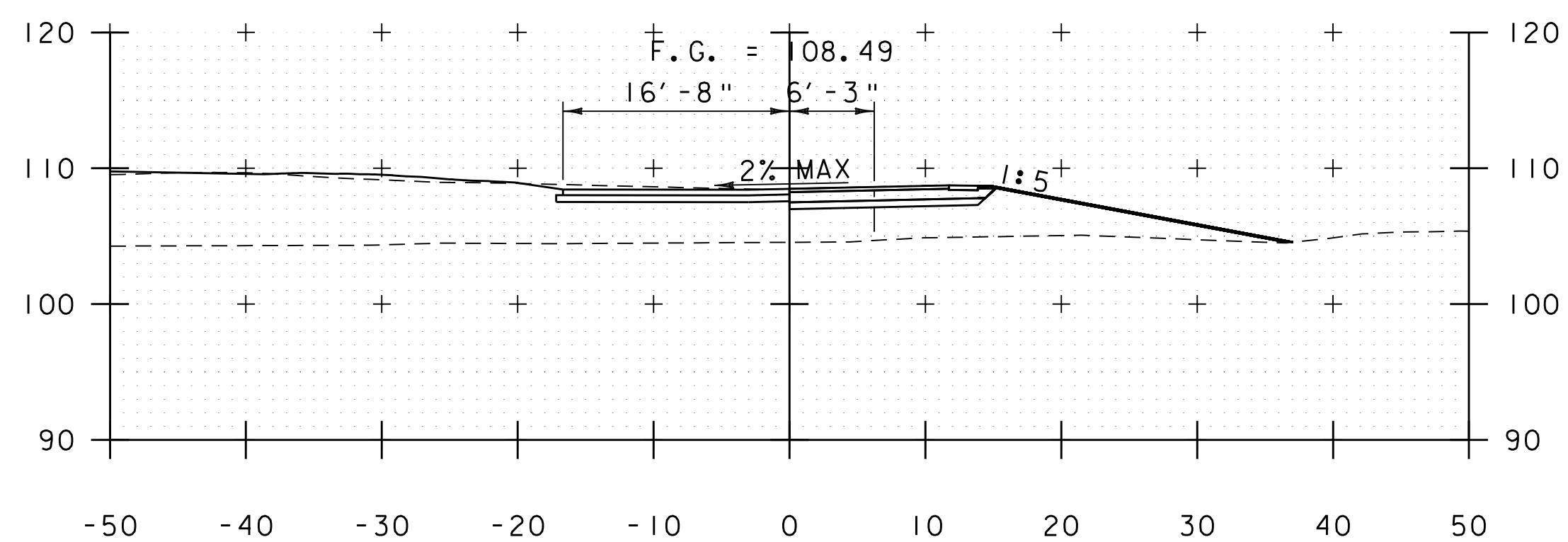




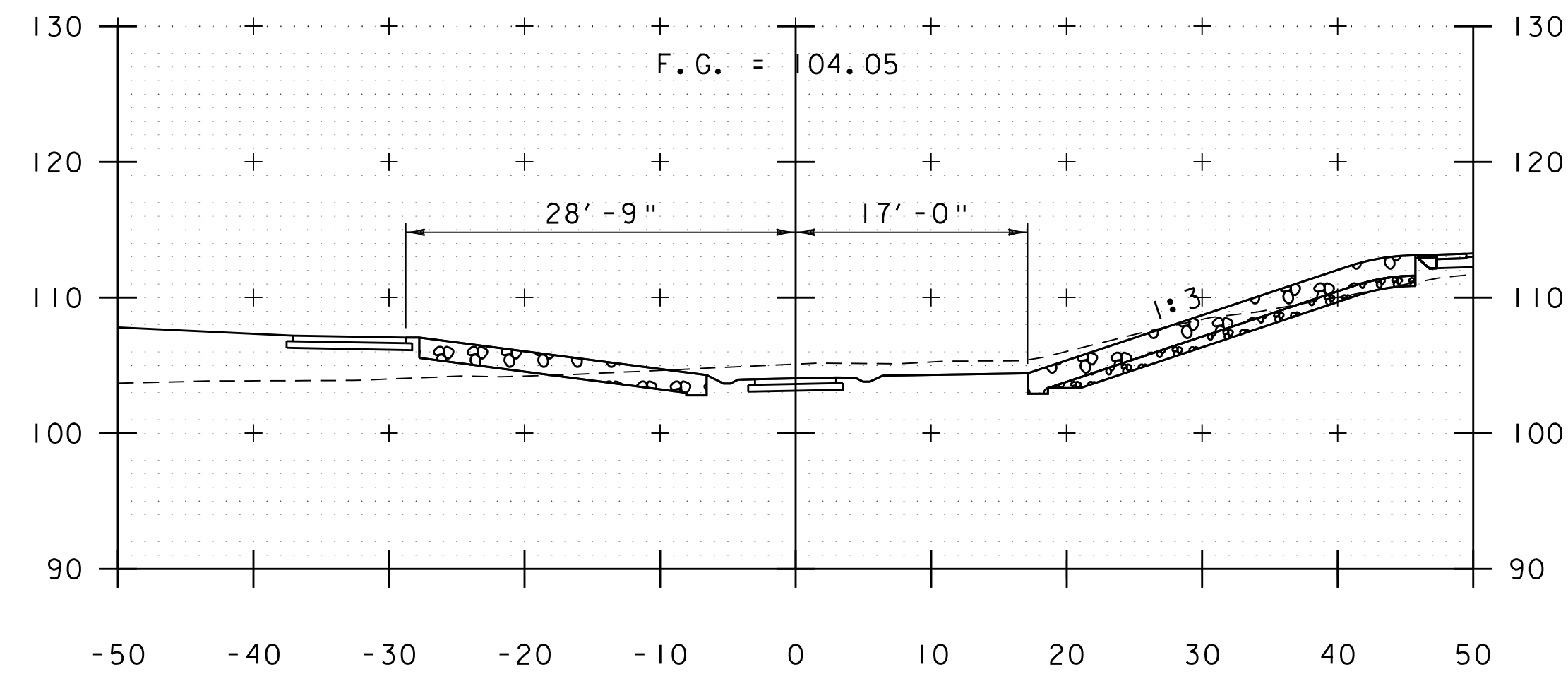
300+50



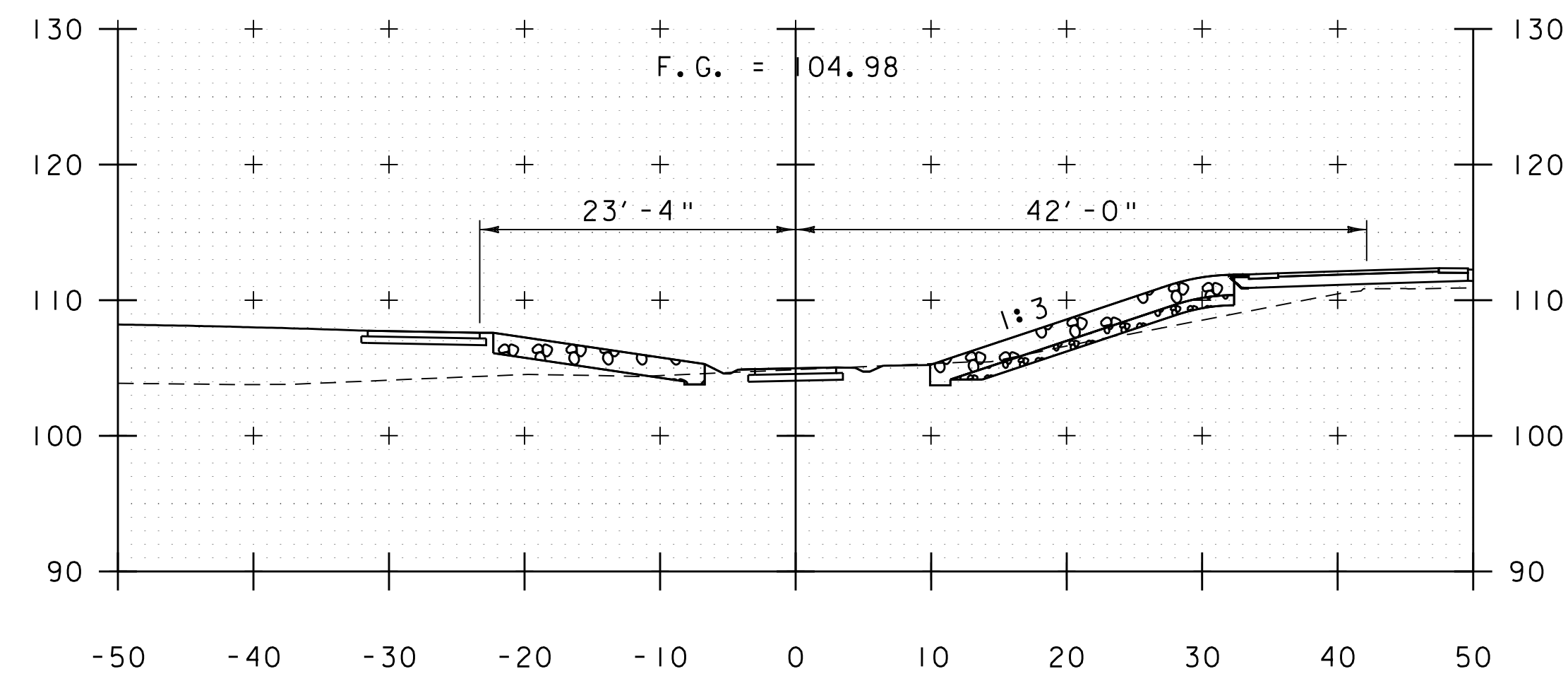
300+25



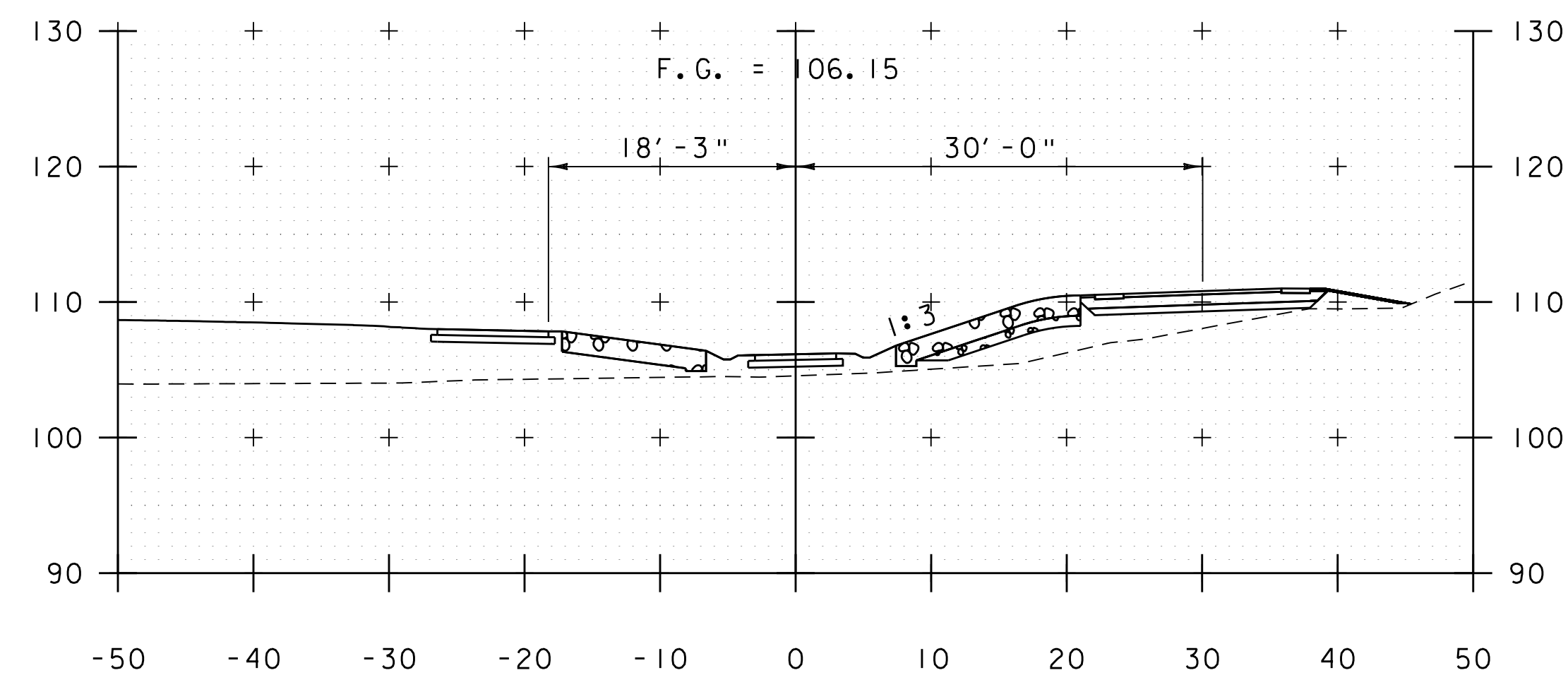
300+00



301+25



301+00



300+75

STA. 300+00 TO STA. 301+25

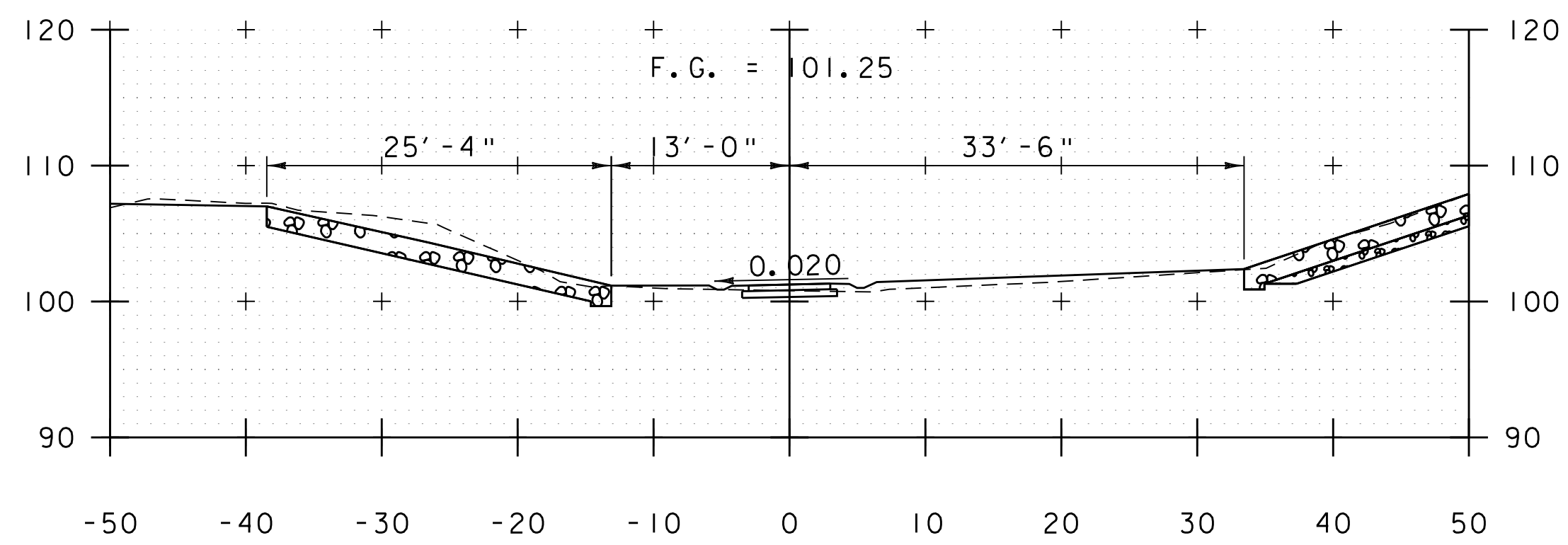


PROJECT NAME: BURLINGTON BIKE PATH  
PROJECT NUMBER: 57634.00

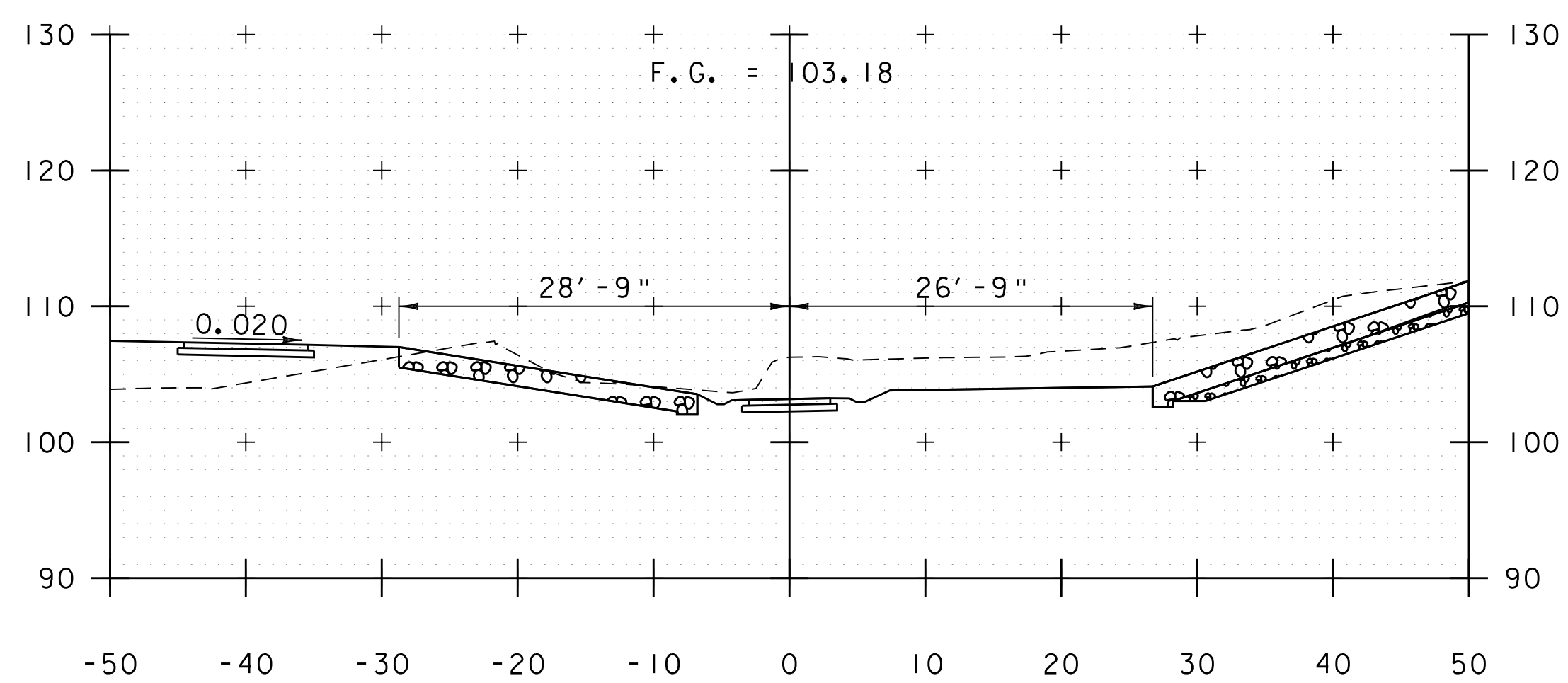
FILE NAME: z57634xs.dgn  
PROJECT LEADER: M.A. COLGAN  
DESIGNED BY: D.M. PECK  
TEXACO WALKWAY CROSS SECTIONS (1 OF 2)

PLOT DATE: 3/23/2016  
DRAWN BY: P.A. MILLER  
CHECKED BY: M.A. COLGAN  
SHEET 76 OF 119





301+68



301+50

STA. 301+50 TO STA. 301+68

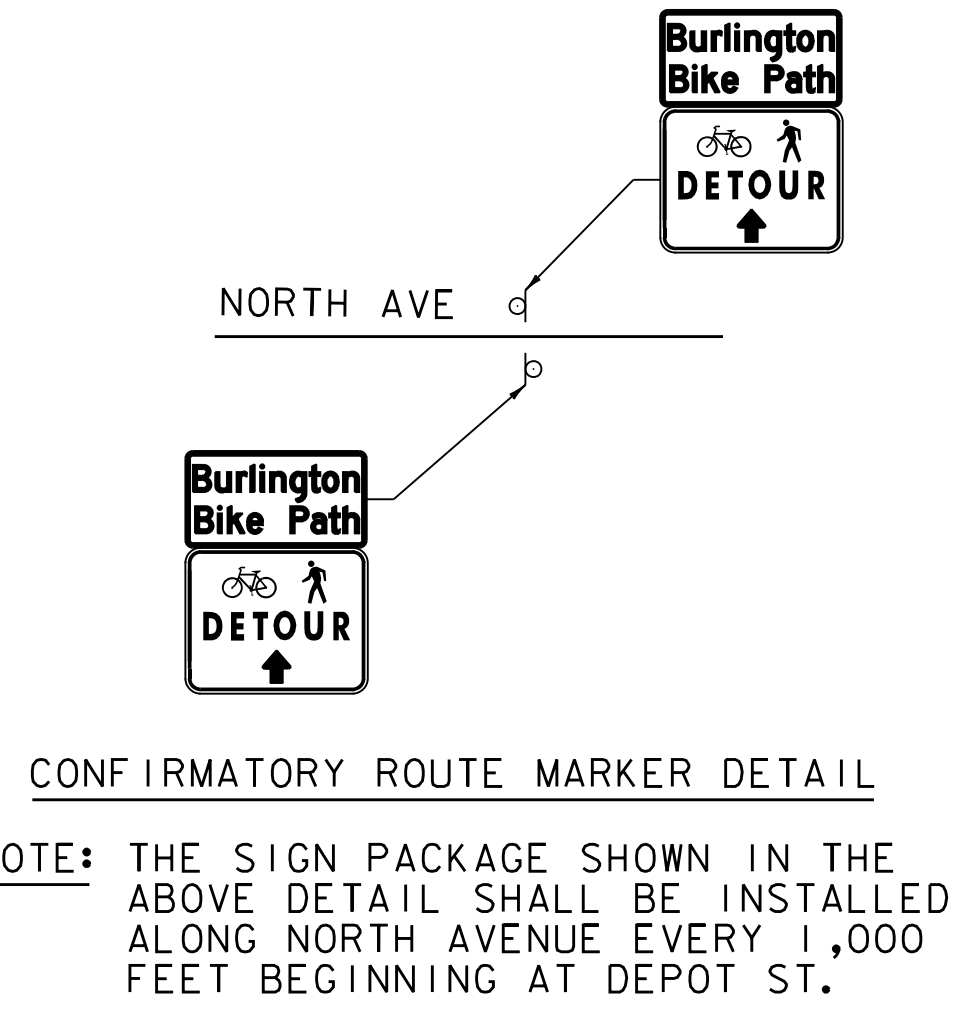
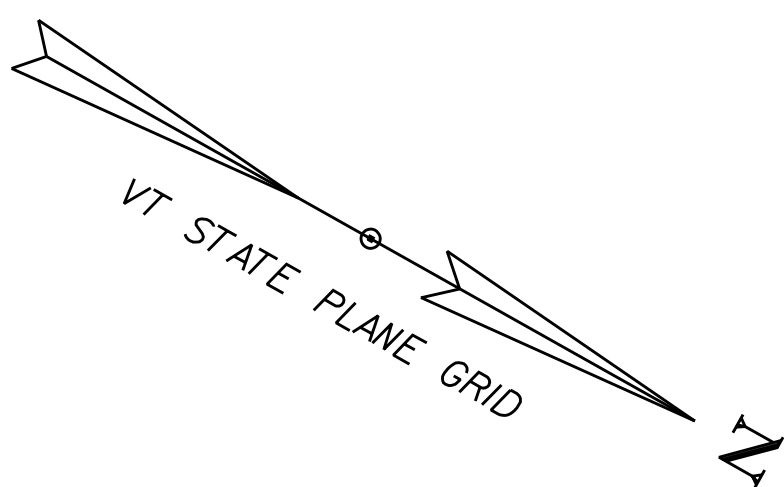
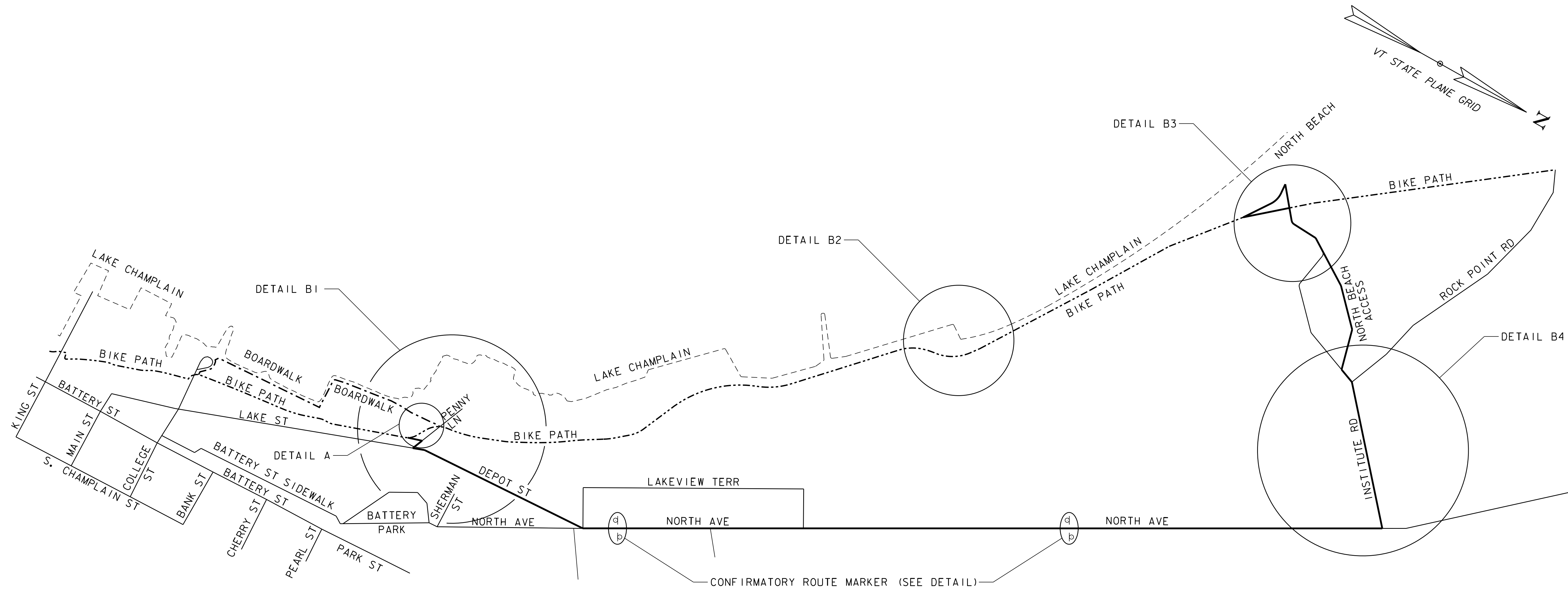


PROJECT NAME: BURLINGTON BIKE PATH  
PROJECT NUMBER: 57634.00

FILE NAME: z57634xs.dgn  
PROJECT LEADER: M.A. COLGAN  
DESIGNED BY: D.M. PECK  
TEXACO WALKWAY CROSS SECTIONS (2 OF 2) SHEET 77 OF 119

PLOT DATE: 3/23/2016  
DRAWN BY: P.A. MILLER  
CHECKED BY: M.A. COLGAN





CONFIRMATORY ROUTE MARKER DETAIL

NOTE: THE SIGN PACKAGE SHOWN IN THE ABOVE DETAIL SHALL BE INSTALLED ALONG NORTH AVENUE EVERY 1,000 FEET BEGINNING AT DEPOT ST.

- TRAFFIC CONTROL NOTES**
1. SEE TRAFFIC CONTROL PLAN (2 OF 4) , (3 OF 4) , AND (4 OF 4) FOR DETAILS.
  2. ALL SIGNS SHALL BE LOCATED SO THEY ARE VISIBLE AND ABLE TO BE READ BY THE TRAVELING PUBLIC. SIGNS SHALL BE INSTALLED SO AS NOT TO OBSTRUCT EXISTING SIGNS.
  3. ALL SIGNS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) AND THE "STANDARD HIGHWAY SIGNS AND MARKINGS" BOOK (SHSM) PUBLISHED BY THE FEDERAL HIGHWAY ADMINISTRATION (FHWA).
  4. SIGNS SHALL BE ERECTED BEFORE THE START OF ANY WORK AND SHALL BE COVERED UNTIL WORK COMMENCES. EACH SIGN SHALL BE ERECTED IN A NEAT AND WORKMANLIKE MANNER. SIGNS SHALL BE REMOVED UPON COMPLETION OF THE WORK AT THE DISCRETION OF THE ENGINEER.
  5. THE COSTS OF ALL DETOUR SIGNS AND REQUIRED SIGN POSTS AND INSTALLATION SHALL BE INCLUDED IN ITEM 641.10, "TRAFFIC CONTROL".
  6. ALL DETOUR SIGNS SHALL BE COVERED COMPLETELY WHEN NOT APPLICABLE FOR THE SPECIFIED DETOUR.

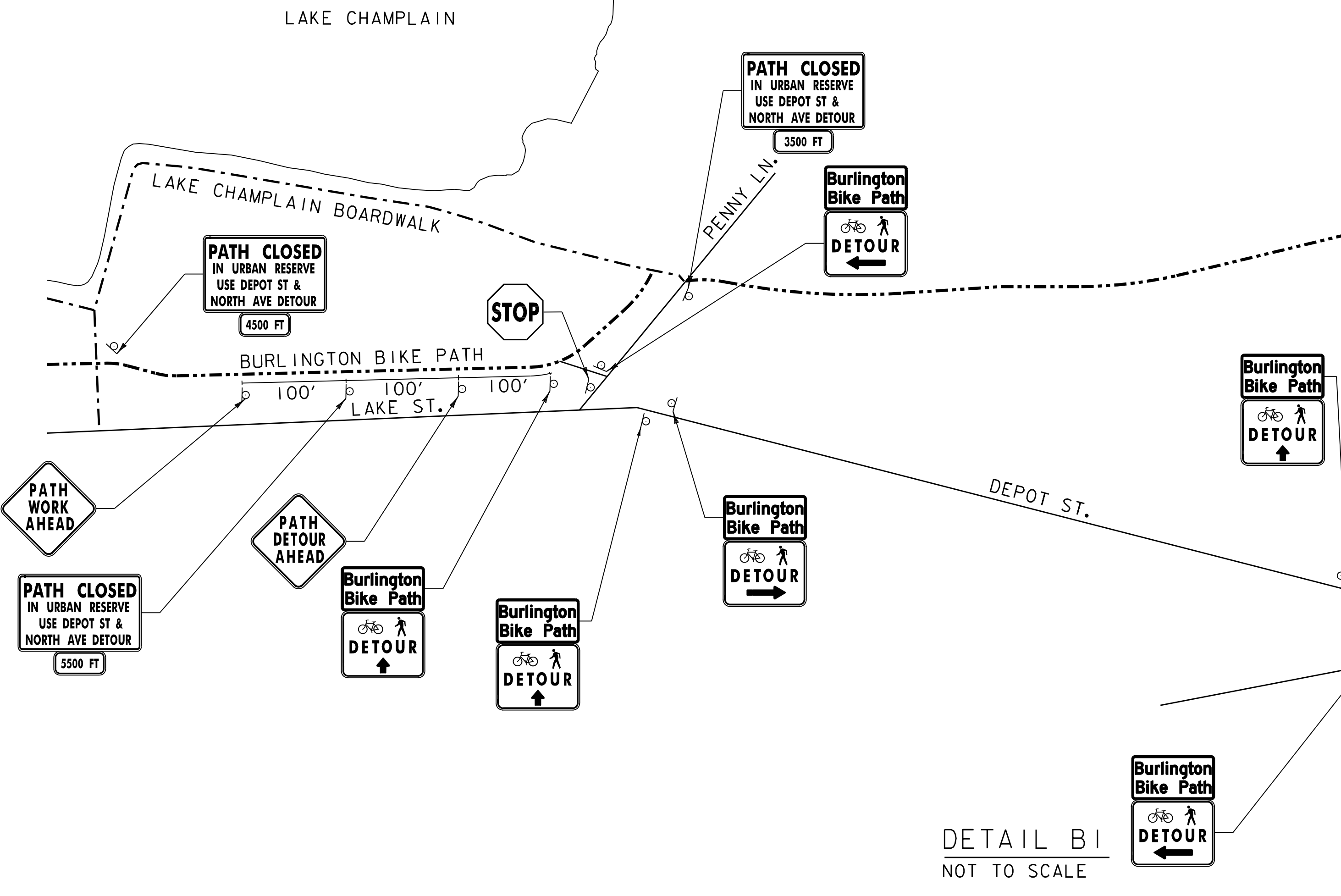
LOCAL DETOUR & TRAFFIC CONTROL PLAN

NOT TO SCALE



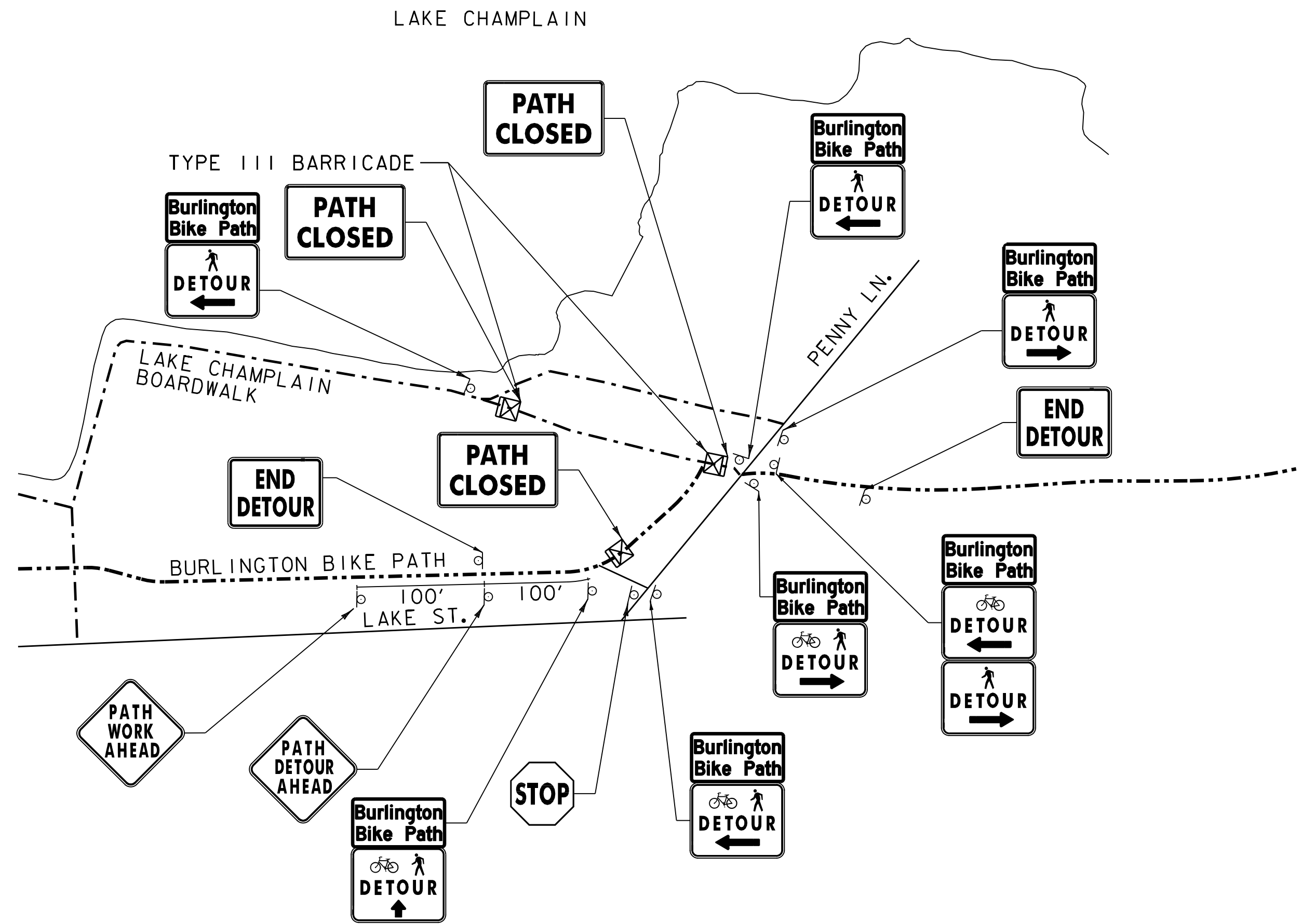
PROJECT NAME: BURLINGTON BIKE PATH	
PROJECT NUMBER: 57634.00	
FILE NAME: z57634+cp.dgn	PLOT DATE: 3/23/2016
PROJECT LEADER: M.A. COLGAN	DRAWN BY: G.A. GOMEZ
DESIGNED BY: G.A. GOMEZ	CHECKED BY: D.A. GINGRAS
TRAFFIC CONTROL PLAN (1 OF 4)	SHEET 78 OF 119





DETAIL B1  
NOT TO SCALE

LOCAL DETOUR & TRAFFIC CONTROL PLAN  
NOT TO SCALE



DETAIL A - PENNY LANE TIE-IN CLOSURE  
NOT TO SCALE

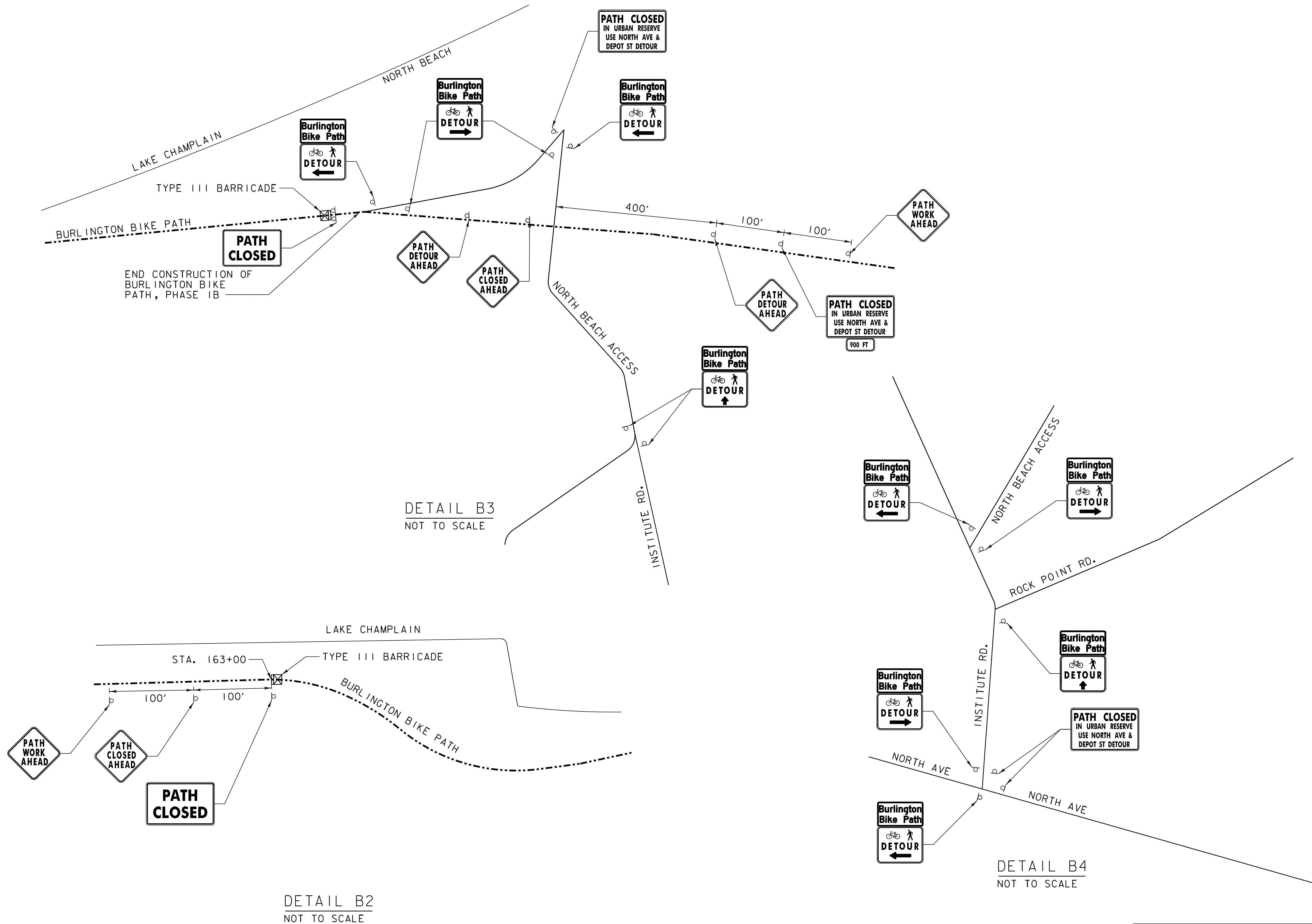
PROJECT NAME: BURLINGTON BIKE PATH  
PROJECT NUMBER: 57634.00

FILE NAME: z57634+cp.dgn  
PROJECT LEADER: M.A. COLGAN  
DESIGNED BY: G.A. GOMEZ  
TRAFFIC CONTROL PLAN (2 OF 4)

PLOT DATE: 3/23/2016  
DRAWN BY: G.A. GOMEZ  
CHECKED BY: D.A. GINGRAS  
SHEET 79 OF 119







LOCAL DETOUR & TRAFFIC CONTROL PLAN  
NOT TO SCALE

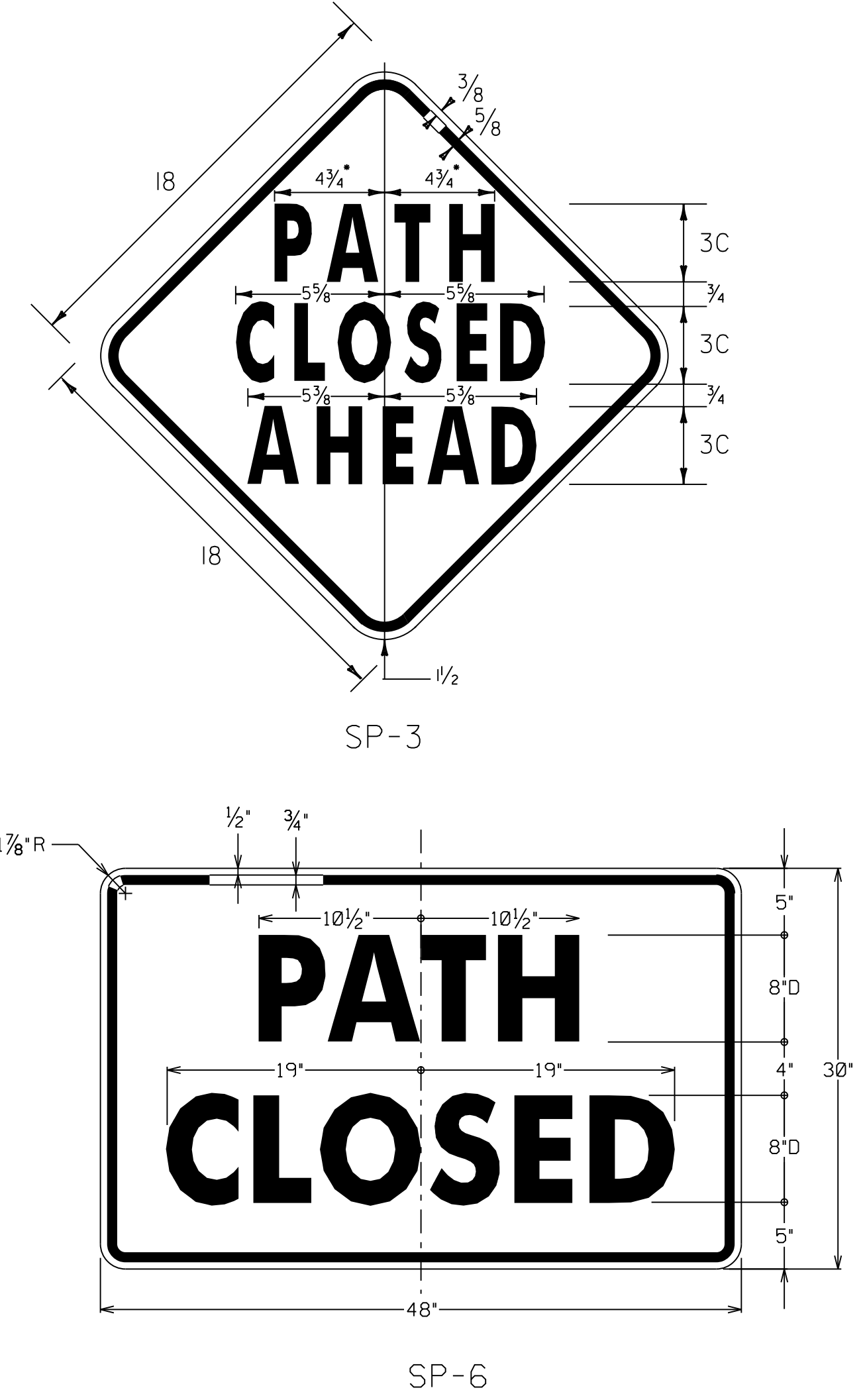
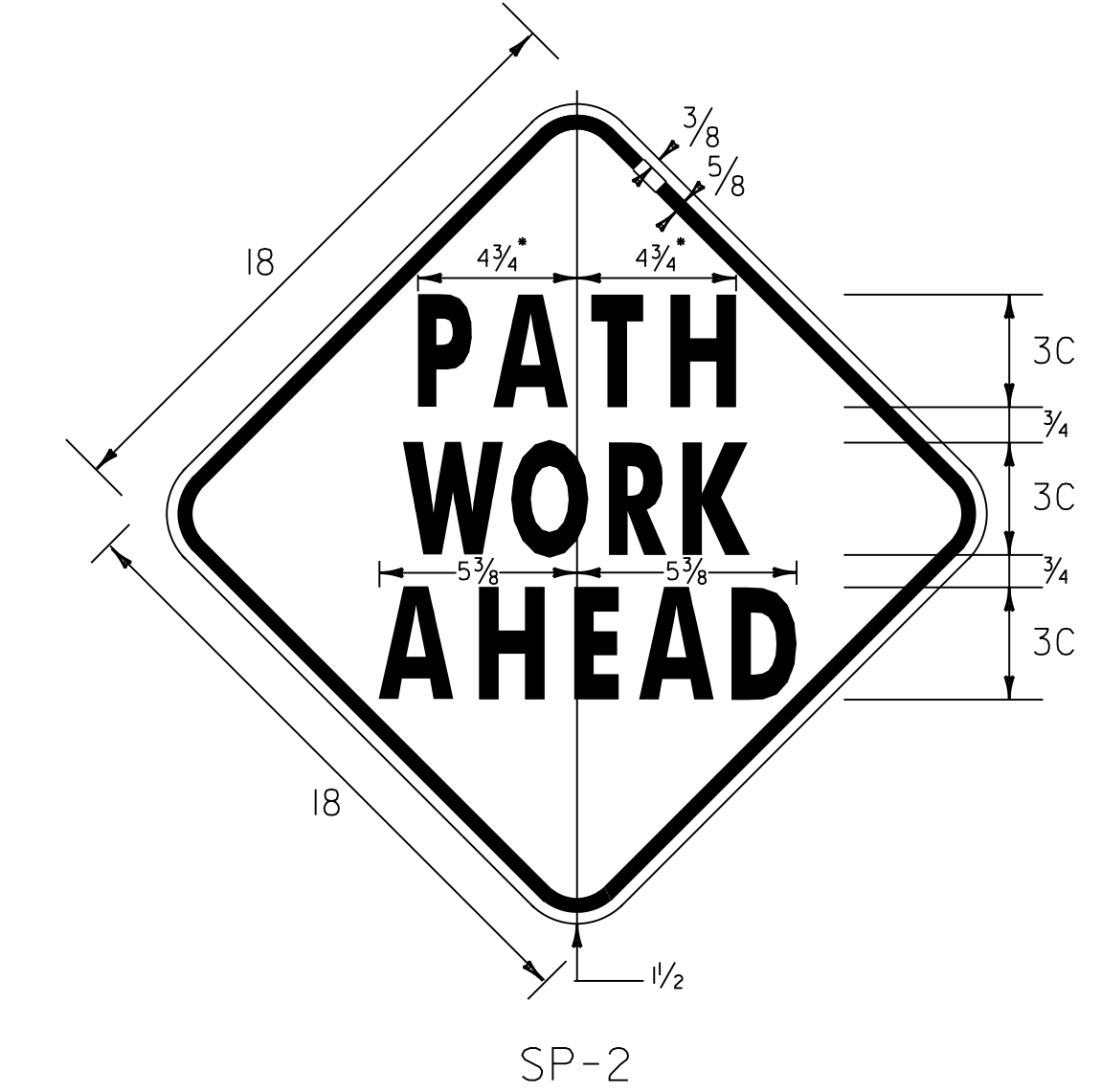
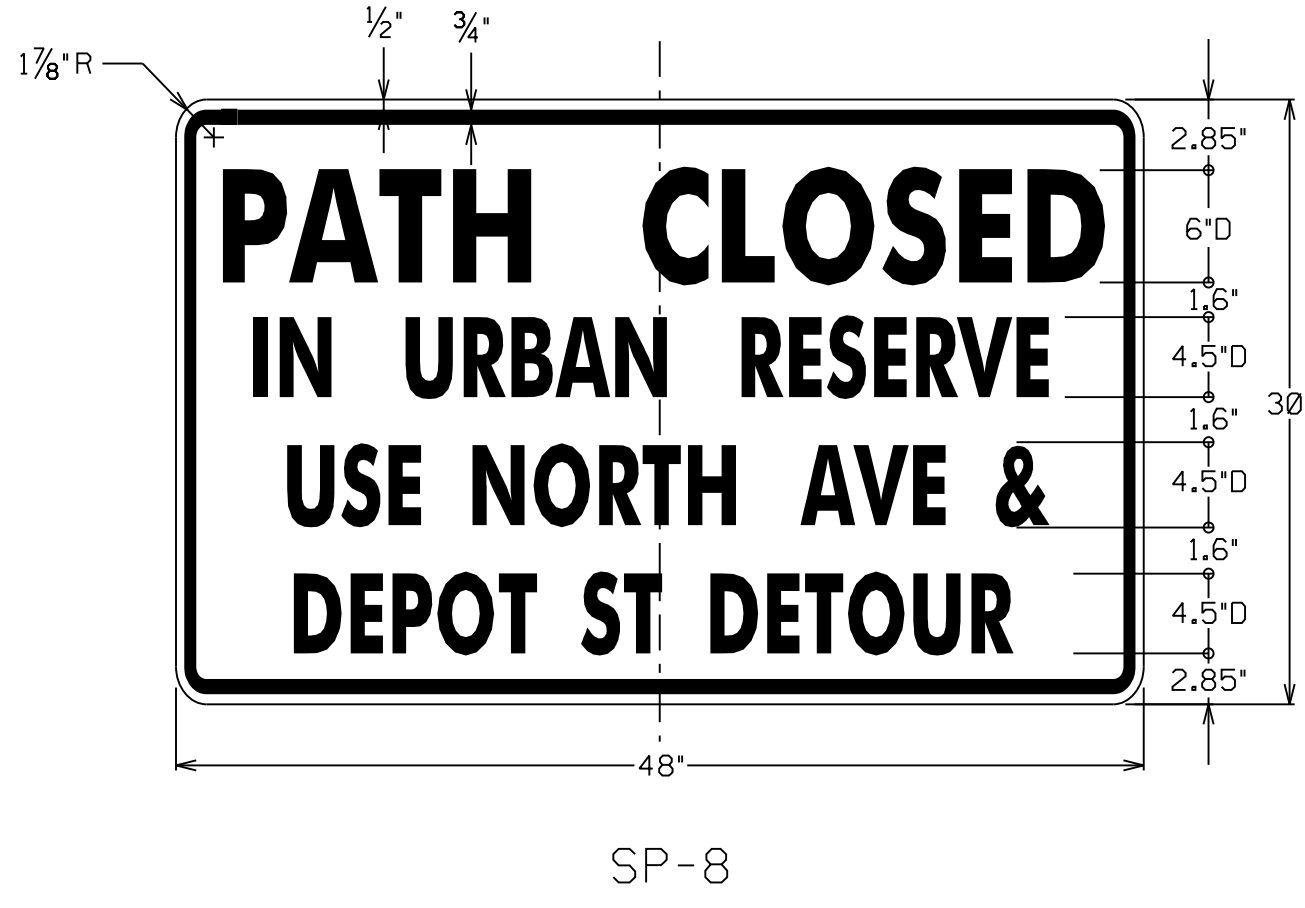
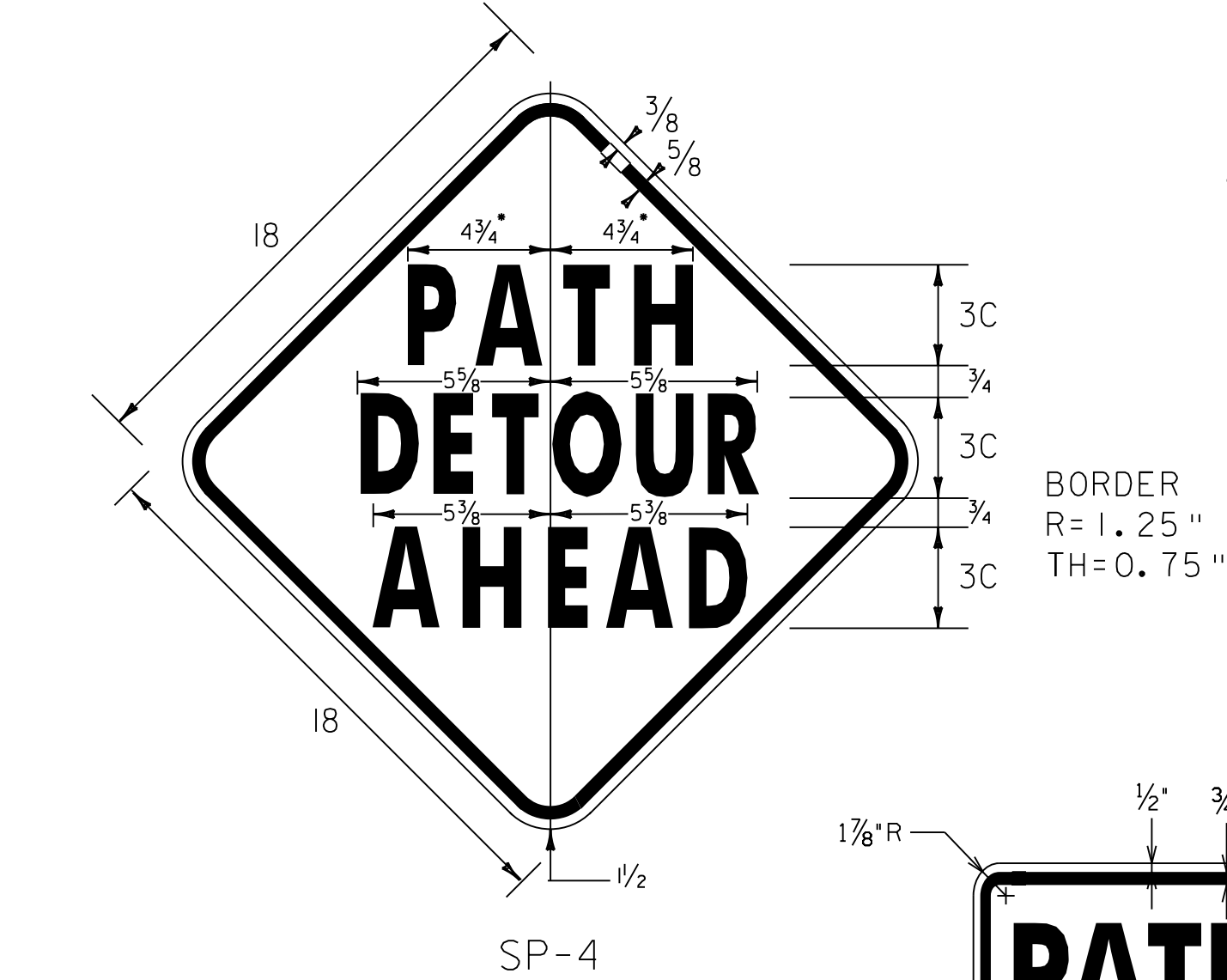
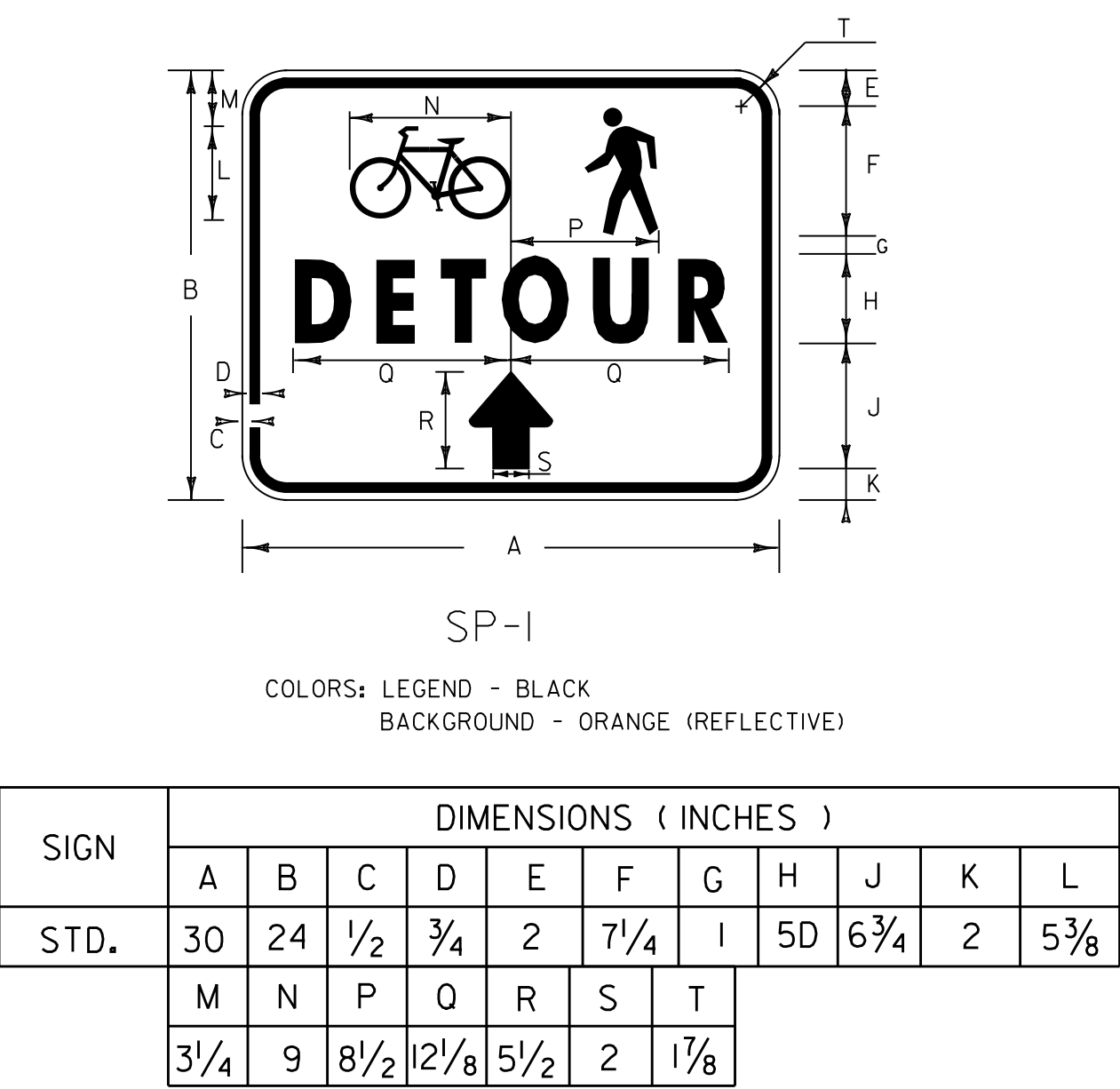


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TRAFFIC CONTROL PLAN (3 OF 4)	SHEET 80 OF 119



IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	NUMBER OF SIGNS REQ'D	REMARKS
	WIDTH (IN)	HEIGHT (IN)			
M4-9AL	30	24		7	MOUNT BELOW THE SP-5
M4-9AR	30	24		7	MOUNT BELOW THE SP-5
M4-9BL	30	24		2	MOUNT BELOW THE SP-5
M4-9BR	30	24		2	MOUNT BELOW THE SP-5
SP-1	30	24		12*	MOUNT BELOW THE SP-5
SP-2	18	18		4	MOUNT ON SINGLE POST
SP-3	18	18		3	MOUNT ON SINGLE POST
SP-4	18	18		4	MOUNT ON SINGLE POST
SP-5	30	16		31*	MOUNT ON SINGLE POST
SP-6	48	30		5	MOUNT ON TRIPOD
SP-7	48	30		3	MOUNT ON TRIPOD
SP-8	48	30		4	MOUNT ON TRIPOD
W16-2aP	18	12		3	MOUNT BELOW SP-7 OR SP-8

* - NUMBER OF SIGNS REQUIRED ASSUMING APPROXIMATELY 6 LOCATIONS OF CONFIRMATORY ROUTE MARKER ASSEMBLY DETAIL



- NOTES:
- COLORS FOR THE M4-9 SIGNS SHALL BE BLACK TEXT AND BORDER ON RETROREFLECTIVE FLUORESCENT ORANGE BACKGROUND.
  - COLORS FOR THE SP-1 TO SP-4 SIGNS SHALL BE BLACK TEXT AND BORDER ON RETROREFLECTIVE FLUORESCENT ORANGE BACKGROUND.
  - COLORS FOR THE SP-5 TO SP-8 SIGNS SHALL BE BLACK TEXT AND BORDER ON RETROREFLECTIVE FLUORESCENT WHITE BACKGROUND.
  - COLORS FOR THE W16-2aP SIGNS SHALL BE BLACK TEXT AND BORDER ON RETROREFLECTIVE FLUORESCENT WHITE BACKGROUND.
  - ALL SIGNS SHOWN ON THIS PLAN SHALL BECOME THE PROPERTY OF THE CITY OF BURLINGTON AFTER THEY ARE REMOVED FROM THE DETOUR. THE CONTRACTOR SHALL DELIVER THE SIGNS TO THE CITY. ALL COSTS ASSOCIATED WITH PROVIDING THE SIGNS TO THE CITY SHALL BE INCIDENTAL TO ITEM 641.10, "TRAFFIC CONTROL".
  - IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONFIRM WITH THE CITY WHAT SIGNS, IF ANY, ARE CURRENTLY IN POSSESSION OF THE CITY AHEAD ANY ADDITIONAL SIGNS BEING ORDERED.

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TRAFFIC CONTROL PLAN (4 OF 4)	SHEET 81 OF 119





DOCUMENT USE

1. THESE PLANS AND CORRESPONDING CADD DOCUMENTS ARE INSTRUMENTS OF PROFESSIONAL SERVICE, AND SHALL NOT BE USED, IN WHOLE OR IN PART, FOR ANY PURPOSE OTHER THAN FOR WHICH IT WAS CREATED WITHOUT THE EXPRESSED, WRITTEN CONSENT OF VHB. ANY UNAUTHORIZED USE, REUSE, MODIFICATION OR ALTERATION, INCLUDING AUTOMATED CONVERSION OF THIS DOCUMENT SHALL BE AT THE USER’S SOLE RISK WITHOUT LIABILITY OR LEGAL EXPOSURE TO VHB.

EROSION PREVENTION AND SEDIMENT CONTROL NOTES:

1. CONTRACTOR ACTIVITIES SHALL ADHERE TO THIS SITE PLAN, THE CONDITIONS OF A MODERATE RISK GENERAL PERMIT 3–9020, THE VERMONT EROSION PREVENTION AND SEDIMENT CONTROL FIELD GUIDE (2006), THE VERMONT STANDARDS AND SPECIFICATIONS FOR EROSION PREVENTION AND SEDIMENT CONTROL (2006, AMENDED 2008), AND FILE A CITY STANDARD EPSC PLAN
2. EPSC MEASURES SHALL BE INSTALLED PRIOR TO EARTH DISTURBING ACTIVITIES WITH THE EXCEPTION OF LAND DISTURBANCE THAT MAY RESULT FROM ACCESSING THE AREA(S) WITH EQUIPMENT IN ORDER TO INSTALL THOSE EPSC MEASURES. TEMPORARY EPSC MEASURES INTENDED TO TRAP SEDIMENT SHALL BE INSTALLED AS A FIRST STEP IN LAND DISTURBING ACTIVITIES AND SHALL BE MADE FUNCTIONAL BEFORE UPSLOPE LAND DISTURBANCE TAKES PLACE, WITH THE EXCEPTION OF THOSE LAND DISTURBING ACTIVITIES THAT ARE NECESSARY TO INSTALL MEASURES.
3. PROPOSED CHANGES TO THE EPSC PLAN SHALL BE APPROVED BY THE PERMITTEE OR HIS/HER DESIGNEE PRIOR TO IMPLEMENTATION.
4. PERMISSION MUST BE GRANTED BY VT DEC PRIOR TO USE OF ANY SUPPORT ACTIVITIES OCCURRING OUTSIDE OF THE APPROVED PROJECT BOUNDARIES. THIS INCLUDES USE OF OFF–SITE WASTE AND BORROW AREAS.
5. ALL PARTIES ASSOCIATED WITH CONSTRUCTION ACTIVITIES WHO MEET EITHER OF THE FOLLOWING TWO CRITERIA OF "PRINCIPAL OPERATOR" MUST OBTAIN COVERAGE UNDER THE CONSTRUCTION STORMWATER DISCHARGE PERMIT FOR THE PROJECT PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES BY THAT OPERATOR:
- a. THE PARTY HAS OPERATIONAL CONTROL OVER CONSTRUCTION PLANS AND SPECIFICATIONS, INCLUDING BUT NOT LIMITED TO THE ABILITY TO MAKE MODIFICATIONS TO THOSE PLANS AND SPECIFICATIONS; OR
  - b. THE PARTY HAS CONTINUOUS DAY–TO–DAY OPERATIONAL CONTROL OF THOSE ACTIVITIES AT THE PROJECT THAT ARE NECESSARY TO ENSURE COMPLIANCE WITH AN EPSC PLAN FOR THE SITE OR OTHER PERMIT CONDITIONS (E.G., THEY ARE AUTHORIZED TO DIRECT WORKERS AT A SITE TO CARRY OUT ACTIVITIES REQUIRED BY THE EPSC PLAN OR COMPLY WITH OTHER PERMIT CONDITIONS).

CONSTRUCTION EPSC NOTES:

1. EXISTING VEGETATION SHALL BE PROTECTED AND MAINTAINED TO THE EXTENT PRACTICABLE.
2. A VEGETATED BUFFER SHALL BE MAINTAINED FOR WATER RESOURCES (E.G., WETLANDS AND STREAMS) TO THE EXTENT PRACTICABLE.
3. TO THE EXTENT PRACTICABLE, SURFACE FLOW SHALL BE DIVERTED AWAY FROM EXPOSED SOILS AND WATER RESOURCES.
4. RESOURCE AREAS (E.G. STREAMS) WITHIN THE PROJECT AREA SHALL BE FLAGGED PRIOR TO ANY CONSTRUCTION RELATED ACTIVITIES OCCURRING WITHIN CLOSE PROXIMITY TO THOSE AREAS.
5. EFFLUENT FROM DEWATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH A SEDIMENT TRAPPING DEVICE AND DISCHARGED IN A MANNER THAT DOES NOT RESULT IN IMPACTS TO WATER QUALITY OR CONTRIBUTE TO EROSION. SEE DETAILS FOR MORE INFORMATION.
6. UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS IN ADDITION TO THE OTHER APPLICABLE CRITERIA:
- a. NO MORE THAN 500 LINEAR FEET OF TRENCH MAY BE OPENED AT ONE TIME.
  - b. EXCAVATED MATERIAL SHALL BE PLACED IN UPLAND AREAS ON THE UPHILL SIDE OF THE TRENCHES, WHERE FEASIBLE.
10. SEDIMENT REMOVED FROM SEDIMENT CONTROL PRACTICES SHALL BE DISPOSED OF IN AN UPLAND AREA WITH STABILIZATION FOLLOWING DISPOSAL OF MATERIAL.
11. IN ADVANCE OF FORECASTED RAINFALL OR SNOWMELT, EPSC MEASURES THAT ARE LOCATED IN AREAS OF ACTIVE EARTH DISTURBANCE SHALL BE INSPECTED AND REPAIRED, AS NEEDED.
12. DUST CONTROL SHALL BE HANDLED VIA WATER OR CALCIUM CHLORIDE APPLICATION TO ROADWAYS AND OTHER AREAS WHERE DUST MAY BE GENERATED.
13. STABILIZED CONSTRUCTION ENTRANCES SHALL BE REGULARLY MAINTAINED TO CONTROL EQUIPMENT AND VEHICLES FROM TRACKING MATERIAL OFF SITE.
14. PUBLIC ROADWAY ACCESS LOCATIONS SHALL BE INSPECTED DAILY AND SWEEPED AS NEEDED TO PREVENT SEDIMENT TRANSPORT.
15. PERIMETER CONTROLS (E.G., SILT FENCE) SHALL BE INSTALLED ON THE DOWNSLOPE SIDE OF AREAS WHERE THERE IS POTENTIAL FOR SOIL EROSION AND/OR SEDIMENT RUNOFF. IN SOME AREAS WHERE THE GROUND SURFACE IS LEVEL AND THERE ARE NO PATHWAYS (E.G., DITCHES OR RUTS) THAT COULD TRANSPORT RUNOFF FROM THE PROJECT AREA, INSTALLATION OF PERIMETER CONTROLS MAY NOT BE NECESSARY PER APPROVAL BY THE ON–SITE PLAN COORDINATOR (OSPC).
16. PRIOR TO STUMPING AND GRUBBING, LOGGING ACTIVITIES SHALL BE CONDUCTED IN ACCORDANCE WITH ACCEPTABLE MANAGEMENT PRACTICES FOR MAINTAINING WATER QUALITY ON LOGGING JOBS IN VERMONT (AMPS, 2006). CONSTRUCTION MATS AND MAT BRIDGES SHALL BE IN PLACE IN WETLANDS AND STREAM CROSSINGS PRIOR TO ACCESS BY ANY TREE CLEARING EQUIPMENT.
17. STUMPING AND GRUBBING ACTIVITIES SHALL BE CONDUCTED IN ACCORDANCE WITH THE PROJECTS CONSTRUCTION STORMWATER DISCHARGE PERMIT AND EPSC PLAN.
18. CONSTRUCTION DEMARCATION AND PERIMETER CONTROLS SHALL COMPLY WITH THE FOLLOWING:

CONSTRUCTION DEMARCATION:

- a. CONSTRUCTION DEMARCATION TO BE INSTALLED ALONG PERIMETER OF LIMITS OF DISTURBANCE PER THE EPSC PLANS
- b. PROJECT DEMARCATION FENCE SHOWN ON THESE PLANS INCLUDES ALL FENCE REQUIRED FOR THE PROJECT. ALL THE FENCE SHOWN IS NOT TO BE ERECTED SIMULTANEOUSLY. CONTRACTOR SHALL ERECT AND DECONSTRUCT FENCE AS NEEDED FOR CONSTRUCTION SEQUENCING.
- c. WITHIN 50 FEET OF RESOURCE AREA, DEMARCATION MUST INCLUDE:
  - 2 TO 3 ROWS OF STAKED (OR STAPLED) 3–INCH (MIN.) ORANGE BARRIER MESH TAPE,
  - ORANGE CONSTRUCTION FENCE, OR
  - ORANGE SNOW FENCE

- d. WHEN GREATER THAN 50 FEET FROM A WATER RESOURCE AREA, DEMARCATION MAY INCLUDE:
- ONE ROW OF STAKED (OR STAPLED)3–INCH (MIN.) ORANGE BARRIER MESH TAPE,
  - ORANGE CONSTRUCTION FENCE, OR
  - ORANGE SNOW FENCE

PERIMETER CONTROLS:

- a. PERIMETER CONTROLS ARE TO BE INSTALLED ON THE DOWNSLOPE SIDE OF AREAS OF DISTURBANCE WHERE THERE IS POTENTIAL FOR SEDIMENT RUNOFF AND/OR SOIL EROSION.
  - b. PERIMETER CONTROLS ARE NOT TO CROSS ACTIVE ACCESS ROUTES OR PERENNIAL FLOW PATHS (E.G. A STREAM).
  - c. PARTICULAR CARE IS TO BE TAKEN WHEN INSTALLING PERIMETER CONTROLS IN A WETLAND.
  - d. WITHIN 50 FEET OF A WATER RESOURCE AREA, PERIMETER CONTROLS MUST INCLUDE:
    - REINFORCED SILT FENCE – TO BE REINFORCED WITH WIRE MESH, STAKED HAYBALES, STAKED FIBER ROLLS, EROSION CONTROL MIX BERMS, OR WOOD CHIP BERMS
  - e. WHEN GREATER THAN 50 FEET FROM A WATER RESOURCE AREA, PERIMETER CONTROLS MAY INCLUDE:
    - SILT FENCE (NON–REINFORCED),
    - STAKED FIBER ROLLS,
    - EROSION CONTROL MIX BERMS, OR
    - WOOD CHIP BERMS
19. PROJECT DEMARCATION OF AN AREA SHALL BE INSTALLED PRIOR TO EARTH DISTURBING ACTIVITIES WITHIN THAT AREA. AN EXCEPTION IS LAND DISTURBANCE THAT MAY BE NEEDED TO ACCESS THE AREA WITH EQUIPMENT IN OR TO INSTALL THE EPSC MEASURES.

PRE–CONSTRUCTION AND PERMITTING NOTES:

1. THE NAME AND DAYTIME PHONE NUMBER OF THE ON–SITE PLAN COORDINATION (OSPC) SHALL BE PROVIDED IN WRITING TO VT DEC PRIOR TO THE START OF CONSTRUCTION.
2. THE NOTICE OF AUTHORIZATION (NOA) ISSUED BY VT DEC SHALL BE POSTED IN A LOCATION THAT IS VISIBLE TO THE PUBLIC (E.G., NEAR THE CONSTRUCTION ENTRANCE). THE CITY STORMWATER PROGAM SHALL ALSO BE NOTIFIED OF THE NOA.
3. A COPY OF THE EPSC PLAN SHALL BE MAINTAINED ON–SITE DURING NORMAL WORKING HOURS FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE OF FINAL STABILIZATION. THE EPSC PLAN SHALL BE MADE AVAILABLE TO VT DEC UPON REQUEST.

WINTER CONSTRUCTION NOTES:

1. WINTER CONSTRUCTION SEASON IS DEFINED BY VT DEC AS OCTOBER 15 TO APRIL 15.
2. THE FOLLOWING WINTER CONSTRUCTION CONDITIONS APPLY TO THOSE CONSTRUCTION ACTIVITIES INVOLVING EARTH DISTURBANCE BETWEEN OCTOBER 15 AND APRIL 15:
- a. FOR AREAS STABILIZED BY VEGETATION, SEED SHALL BE APPLIED NO LATER THAN SEPTEMBER 15.
  - b. MULCH SHALL BE APPLIED AT DOUBLE THE REGULAR CONSTRUCTION SEASON RATE OR ROUGHLY 2 INCHES OF MULCH WITH 80 TO 90% COVER (SEE MULCH DETAIL). MULCH SHALL BE TRACKED IN OR STABILIZED WITH NETTING.
  - c. ENLARGE ACCESS POINTS AS PERMITTABLE TO PROVIDE SPACE FOR SNOW STOCKPILING..
  - d. LIMITS OF DISTURBANCE SHALL BE MOVED OR REPLACED TO REFLECT BOUNDARY OF WINTER WORK, AS NEEDED.
  - e. CLEARED SNOW SHALL BE PLACED DOWN GRADIENT OF ALL AREAS OF DISTURBANCE WHERE FEASIBLE.
  - f. SNOW SHALL NOT BE PLACED IN STORMWATER TREATMENT STRUCTURES. (E.G. BASINS)
  - g. TO THE EXTENT PRACTICABLE, A MINIMUM 25–FOOT BUFFER FROM PERIMETER CONTROLS (E.G., SILT FENCE) SHALL BE MAINTAINED TO ALLOW FOR SNOW CLEARING AND MAINTENANCE.
  - h. FOR AREAS OF DISTURBANCE WITHIN 100 FEET 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.
  - i. DRAINAGE STRUCTURES ARE TO BE KEPT OPEN AND FREE OF SNOW AND ICE DAMS AS DETERMINED BY THE ON SITE PROJECT COORDINATOR.
  - j. EPSC MEASURES THAT REQUIRE SOIL DISTURBANCE TO INSTALL (E.G., SILT FENCE) SHALL BE INSTALLED PRIOR TO GROUND FREEZING.
  - k. SNOW AND ICE SHALL BE REMOVED TO LESS THAN 1 INCH THICKNESS PRIOR TO STABILIZATION.
  - l. A 10 TO 20–FOOT WIDE STONE PAD SHALL BE USED IN AREAS WHERE CONSTRUCTION VEHICLE TRAFFIC IS ANTICIPATED (E.G., AROUND THE PERIMETER OF A BUILDING, WHERE APPLICABLE.
  - m. TO ENSURE COVER OF DISTURBED SOIL IN ADVANCE OF A SNOWMELT EVENT, AREAS OF DISTURBED SOIL SHALL BE STABILIZED AT THE END OF EACH WORKDAY, UNLESS
    - I. WORK IS TO CONTINUE WITHIN THE AREA WITHIN THE NEXT 24 HOURS AND THERE IS NO PRECIPITATION FORECAST OF THE NEXT 24 HOURS OR
    - II. WORK IS OCCURRING IN A SELF–CONTAINED EXCAVATION (I.E., NO OUTLET) WITH A DEPTH OF 2 FEET OR GREATER (E.G., UTILITY TRENCHES).

TEMPORARY AND FINAL STABILIZATION NOTES:

1. DURING REGULAR CONSTRUCTION SEASON, ALL AREAS OF EARTH DISTURBANCE MUST BE STABILIZED WITHIN 14 DAYS OF INITIAL DISTURBANCE. AFTER THIS INITIAL 14–DAY PERIOD, ALL EARTH DISTURBANCE AREAS MUST BE STABILIZED ON A DAILY BASIS, WITH THE FOLLOWING EXCEPTIONS:
- a. STABILIZATION IS NOT REQUIRED IF WORK IS TO CONTINUE WITHIN THE AREA WITHIN THE NEXT 24 HOURS AND THERE IS NO PRECIPITATION FORECAST FOR THE NEXT 24 HOURS.
  - b. STABILIZATION IS NOT REQUIRED IF THE WORK IS OCCURRING IN A SELF–CONTAINED EXCAVATION (I.E., NO OUTLET FOR STORMWATER) WITH A DEPTH OF 2 FEET OR GREATER (E.G., UNDERGROUND UTILITY INSTALLATION).
2. DISTURBANCE ACTIVITIES MUST BE COORDINATED TO ENSURE THAT THE ALLOWABLE CONCURRENT EARTH DISTURBANCE IS NOT EXCEEDED. THE MAXIMUM AREA OF EARTH DISTURBANCE THAT IS ALLOWED AT ANY ONE TIME IS 2.77 ACRES.
3. WORK IS TO PROCEED INCREMENTALLY, WITH STABILIZATION OCCURRING IMMEDIATELY FOLLOWING COMPLETION OF AN INDIVIDUAL AREA (E.G. UPON COMPLETION OF A CONSTRUCTION PHASE).
4. TEMPORARY SOIL STABILIZATION SHALL BE ACHIEVED BY MULCH, SEED AND MULCH, HYDROSEEDING WITH MULCH TACKIFIER, SOD, STONE, AND/OR ROLLED EROSION CONTROL PRODUCTS (E.G., EROSION CONTROL BLANKET). MULCH SHALL BE COMPRISED OF STRAW, HAY, COMPOST, WOOD CHIPS, WOOD STUMP GRINDINGS, AND/OR EROSION CONTROL MIX.
5. PERMANENT STABILIZATION SHALL BE ACHIEVED BY 80% VEGETATION COVER, STONE, ASPHALT, BEDROCK, OR OTHER PERMANENT MATERIAL THAT PROVIDES COMPLETE COVER OF EXPOSED SOILS.
6. AREAS THAT HAVE REACHED TEMPORARY OR FINAL STABILIZATION SHALL NOT BE CONSIDERED PART OF TOTAL AREA OF EARTH DISTURBANCE.

7. APPROPRIATE SEED MIX SHALL BE APPLIED TO DESIGNATED AREAS PER THE SEED DETAIL SPECIFICATIONS. FOR AN AREA TO BE STABILIZED FOR WINTER BY VEGETATED COVER, SEEDING MUST BE COMPLETED BY SEPTEMBER 15.
8. AREAS TO BE STABILIZED FOR WINTER THAT DO NOT HAVE ESTABLISHED VEGETATION BY OCTOBER 15 SHALL BE STABILIZED BY ANCHORED MULCH AT THE WINTER APPLICATION RATE, OR OTHER APPROVED STABILIZATION MEASURES (E.G., ROLLED EROSION CONTROL PRODUCT). DORMANT SEEDING WITH WINTER RYE IS RECOMMENDED.
9. ALL FINAL GRADE SLOPES STEEPER THAN 3H:1V SHALL BE STABILIZED WITH BIODEGRADABLE EROSION CONTROL MATTING, UNLESS SHOWN OTHERWISE ON THE SITE STABILIZATION PLAN.
10. ALL TEMPORARY EPSC MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY EPSC MEASURES ARE NO LONGER NEEDED.

INSPECTION REQUIREMENTS:

1. EPSC INSPECTION, MONITORING, AND REPORTING ARE REQUIRED PER THE CONDITIONS OF GENERAL PERMIT 3–9020 STIPULATIONS FOR MODERATE RISK SITES. THE CONTRACTOR IS RESPONSIBLE FOR INSPECTING AND MAINTAINING EROSION PREVENTION AND SEDIMENT CONTROLS THAT MINIMIZE OR ELIMINATE POLLUTANTS IN STORMWATER DISCHARGE.
2. INSPECTIONS BY THE ON–SITE PLAN COORDINATOR (OSPC) SHALL BE CONDUCTED AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS, WITH ADDITIONAL INSPECTION FREQUENCY REQUIRED FOR RAIN EVENTS, WINTER CONSTRUCTION, AND VISIBLE DISCHARGES PER THE CONDITIONS OF PART 6 OF GENERAL PERMIT 3–9020. A WRITTEN REPORT SHALL BE COMPLETED FOR EACH INSPECTION AND SIGNED BY THE OSPC. ALL REPORTS ARE TO BE MAINTAINED ON SITE AND MADE AVAILABLE TO STATE DEC REPRESENTATIVES UPON REQUEST. SEE SECTION 6.2 (G) OF GENERAL PERMIT 3–9020 FOR INSPECTION REPORT REQUIREMENTS.
3. IF VISIBLY DISCOLORED STORMWATER RUNS OFF THE CONSTRUCTION SITE OR RUNS OFF THE CONSTRUCTION SITE AND DISCHARGES TO RECEIVING WATERS, THE CONTRACTOR SHALL TAKE IMMEDIATE CORRECTIVE ACTION TO CORRECT THE DISCHARGE, INCLUDING MAINTAINING EXISTING EPSC MEASURES, AND INSTALLING SUPPLEMENTAL EPSC MEASURES. THE CONTRACTOR SHALL ALSO NOTIFY THE BURLINGTON STORMWATER PROGRAM AT [stormwater@burlington.gov](mailto:stormwater@burlington.gov) OR 802–863–4501.
4. THE OSPC IS RESPONSIBLE FOR MONITORING, INSPECTING, AND SAMPLING DISCHARGES FROM THE SITE TO MAINTAIN COMPLIANCE WITH GENERAL PERMIT 3–9020. THIS INCLUDES VISUAL MONITORING OF EPSC MEASURES AND DISCHARGES, DISCHARGE SAMPLING, TURBIDITY MONITORING, AND REPORTING. THE MAXIMUM TURBIDITY PERMISSIBLE FOR CONSTRUCTION SITE DISCHARGE IS 25 NTU.
5. SEE PARTS 6, 6.2, AND 6.3 OF GENERAL PERMIT 3–9020 AT [HTTP://WWW.VTWATERQUALITY.ORG/STORMWATER/DOCS/CONSTRUCTION/SW_CGP_AMENDED_FINAL.PDF](http://www.vtwaterquality.org/stormwater/docs/construction/sw_cgp_amended_final.pdf) FOR MORE INFORMATION.

ON–SITE PLAN COORDINATOR (OSPC) NOTES:

1. THE OSPC DESIGNATED TO THE PROJECT (AND HIS/HER DESIGNEE) SHALL:
- a. REVIEW VT DEC’S “ON–SITE PLAN COORDINATOR MANUAL”,
  - b. BE ON–SITE ON A DAILY BASIS (OR HAVE A DESIGNEE THAT IS ON SITE WHEN HE/SHE CANNOT BE),
  - c. BE DIRECTLY RESPONSIBLE FOR ON–SITE IMPLEMENTATION OF THE EPSC PLAN,
  - d. BE KNOWLEDGEABLE IN THE PRINCIPLES AND PRACTICES OF EPSC,
  - e. POSSESS THE SKILLS TO ASSESS CONDITIONS AT THE CONSTRUCTION SITE THAT COULD IMPACT STORMWATER QUALITY,
  - f. POSSESS THE SKILLS TO ASSESS THE EFFECTIVENESS OF EPSC MEASURES SELECTED TO CONTROL THE QUALITY OF STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITY,
  - g. POSSESS THE SKILLS AND EQUIPMENT TO CONDUCT TURBIDITY MONITORING PURSUANT TO THE CONSTRUCTION STORMWATER DISCHARGE PERMIT, AND
  - h. HAVE THE AUTHORITY TO STOP AND/OR MODIFY CONSTRUCTION ACTIVITIES AS NECESSARY TO COMPLY WITH THE EPSC PLAN AND THE CONSTRUCTION STORMWATER DISCHARGE PERMIT.
2. ALL PROPOSED CHANGES TO THE EPSC PLAN MUST BE APPROVED BY THE OSPC OR HIS/HER DESIGNEE, THE PLAN DESIGNER OR A CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC) PRIOR TO IMPLEMENTATION, AND BE CONSIDERED MINOR AMENDMENTS AS DEFINED IN THE OSPC HANDBOOK. ALL MINOR AMENDMENTS ARE TO BE RECORDED USING THE MINOR AMENDMENT RECORD FORM AND MARKED ON THE MASTER OSPC PLAN SET. ALL MODIFICATIONS THAT FALL OUTSIDE OF THE MINOR AMENDMENT DEFINITION MUST BE APPROVED BY VT–DEC.
3. DURING THE REGULAR CONSTRUCTION SEASON (APRIL 15 TO OCT 15), THE OSPC OR HIS/HER DESIGNEE SHALL CONDUCT INSPECTIONS AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HRS FOLLOWING A STORM EVENT RESULTING IN DISCHARGE OF STORMWATER FROM THE CONSTRUCTION SITE.
4. DURING THE WINTER CONSTRUCTION SEASON (OCT 15 TO APRIL 15), THE OSPC OR HIS/HER DESIGNEE SHALL CONDUCT INSPECTIONS ON A DAILY BASIS DURING ACTIVE EARTHWORK.
5. THE OSPC AND HIS/HER DESIGNEE(S) SHALL FOLLOW TURBIDITY MONITORING PROTOCOLS OUTLINED IN VT DEC’S MONITORING OF TURBIDITY IN STORMWATER RUNOFF FROM CONSTRUCTION ACTIVITIES MANUAL.
6. INSPECTIONS CONDUCTED BY THE OSPC OR HIS/HER DESIGNEE SHALL COVER ALL AREAS OF THE SITE THAT ARE BEING ACTIVELY DISTURBED BY CONSTRUCTION OR CONSTRUCTION–RELATED ACTIVITIES, INCLUDING AREAS THAT HAVE BEEN TEMPORARILY STABILIZED.
7. OSPC INSPECTIONS SHALL BE DOCUMENTED USING THE VT DEC INSPECTION REPORT FORM OR A VT DEC–ACCEPTED INSPECTION REPORT FORM.
8. OSPC INSPECTION REPORTS SHALL BE MAINTAINED ON–SITE FOR THE DURATION OF THE PROJECT AND MADE AVAILABLE TO VT DEC OR CITY STORMWATER PROGRAM UPON REQUEST.

PROJECT NAME: BURLINGTON BIKE PATH

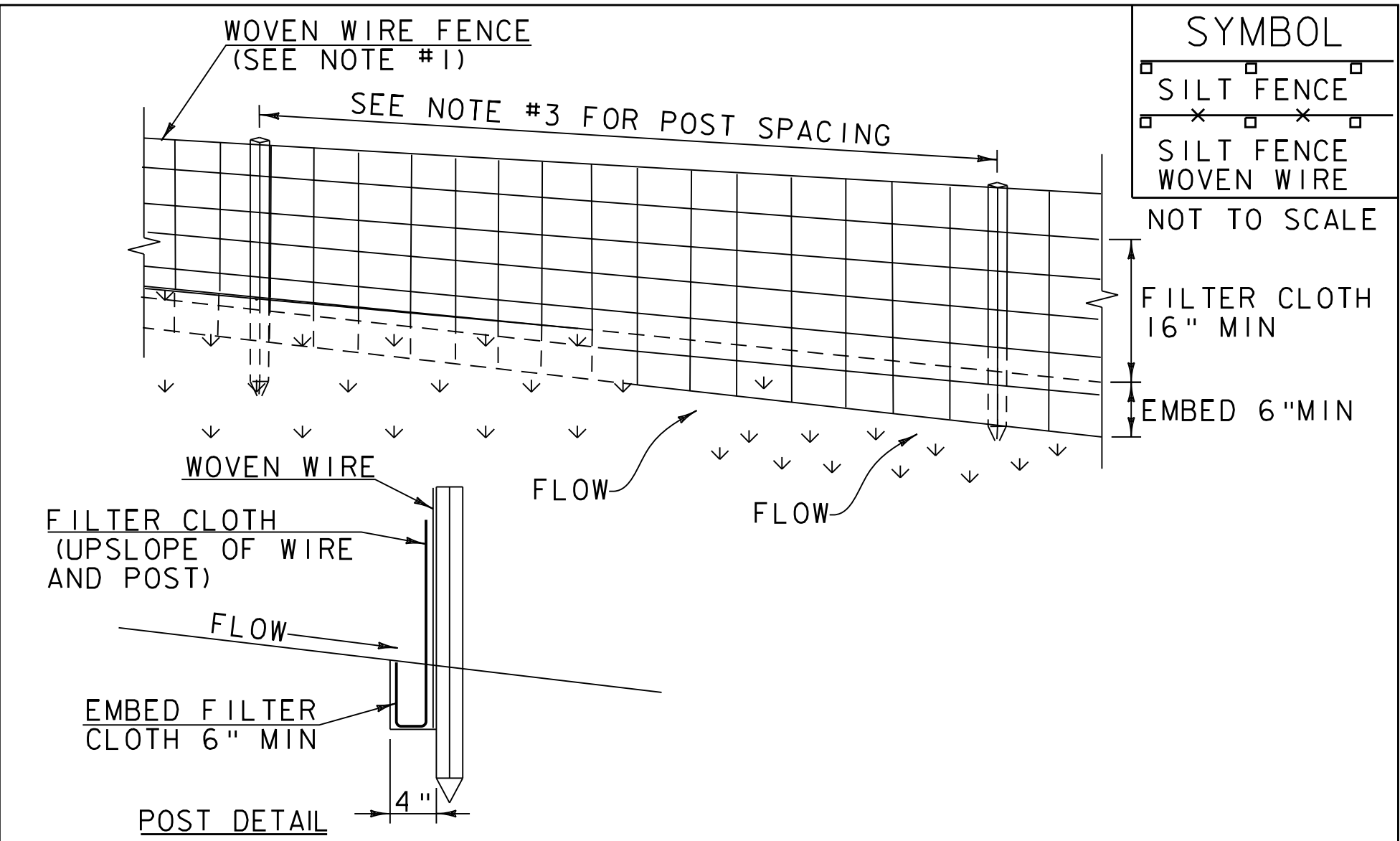
PROJECT NUMBER: 57634.00

FILE NAME: z57634ero_details.dgn  
PROJECT LEADER: M.A. COLGAN  
DESIGNED BY: C.HAKEY  
EPSC NARRATIVE

PLOT DATE: 3/23/2016  
DRAWN BY: G.A. GOMEZ  
CHECKED BY: C. HAKEY  
SHEET 82 OF 119

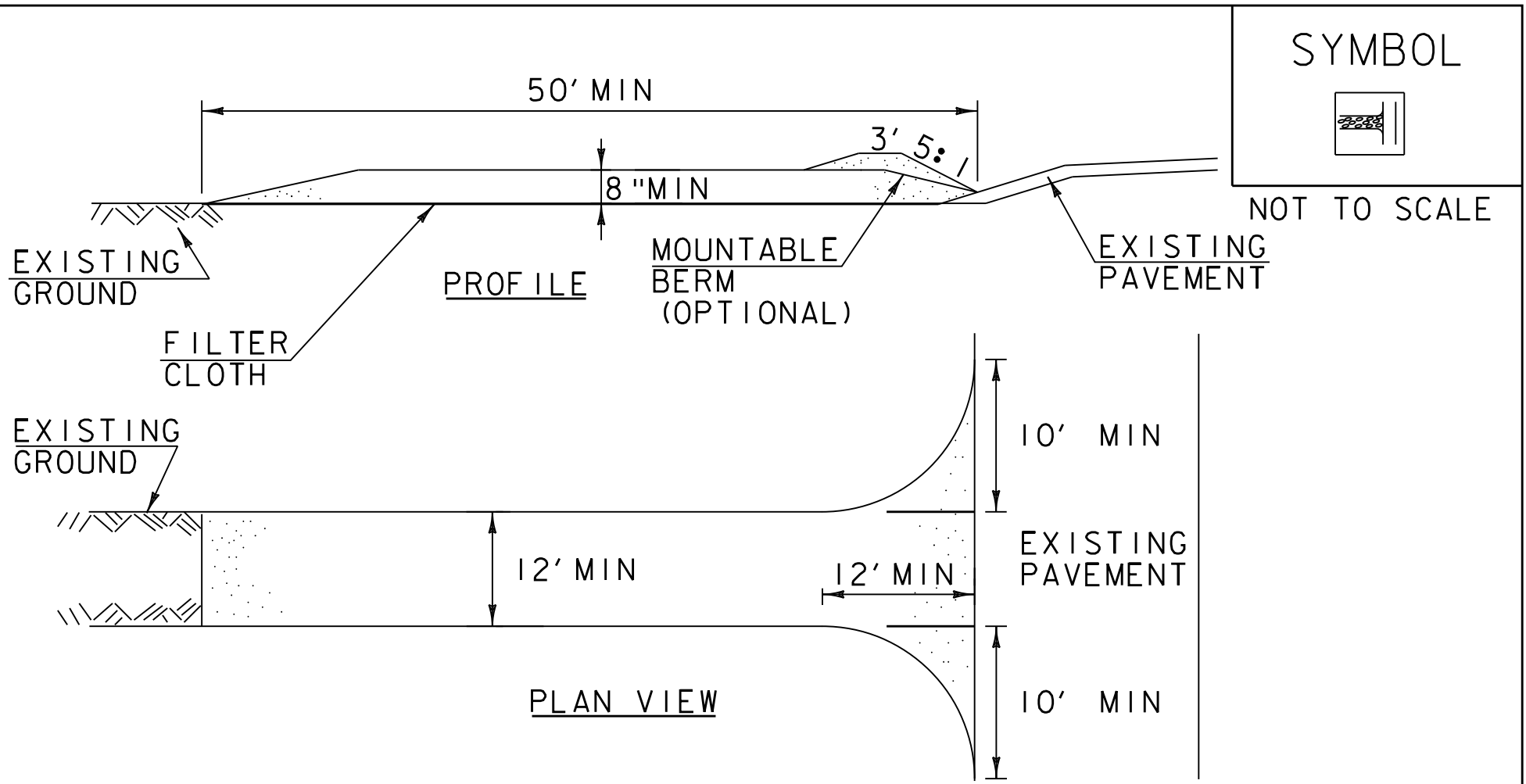






1. WOVEN WIRE REINFORCED FENCE IS REQUIRED WITHIN 100' UPSLOPE OF RECEIVING WATERS WHEN THE PROJECT FALLS UNDER A CONSTRUCTION STORMWATER PERMIT. WOVEN WIRE SHALL BE A MIN. 14 GAUGE WITH A 6" MAX. MESH OPENING.
2. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAF1100X, STABILINKA T140N OR APPROVED EQUIVALENT.
3. POST SPACING FOR WIRE-BACKED FENCE SHALL BE 10' MAXIMUM. FOR FILTER-CLOTH FENCE, WHEN ELONGATION IS >50%, POST SPACING SHALL NOT EXCEED 4' AND WHEN ELONGATION IS <50%, POST SPACING SHALL NOT EXCEED 6'.
4. WOVEN WIRE FENCE IS TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES. FILTER CLOTH IS TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
5. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY 6" AND FOLDED.
6. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN SEDIMENT REACHES HALF OF FABRIC HEIGHT.

ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC ORIGINALLY DEVELOPED BY USDA-NRCS VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION	REINFORCED SILT FENCE
NOTES: REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- "FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.	
THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 649 AND AS SHOWN IN THE PLANS FOR GEOTEXTILE FOR SILT FENCE (PAY ITEM 649.51) OR GEOTEXTILE FOR SILT FENCE, WOVEN WIRE REINFORCED (PAY ITEM 649.515).	
REVISIONS	
MARCH 21, 2008 WHF	
DECEMBER 11, 2008 WHF	
JANUARY 13, 2009 WHF	



1. STONE SIZE- USE 1-4" STONE, RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH- NOT LESS THAN 50' (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30' MINIMUM LENGTH APPLIES).
3. THICKNESS- NOT LESS THAN 8".
4. WIDTH- 12' MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. 24' IF SINGLE ENTRANCE TO SITE.
5. GEOTEXTILE MUST BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING STONE.
6. SURFACE WATER- ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY, ALL SEDIMENT SPILLED, DROPPED, WASHED OR 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 INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED ACCORDING TO PERMIT REQUIREMENTS.

ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC ORIGINALLY DEVELOPED BY USDA-NRCS VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION	STABILIZED CONSTRUCTION ENTRANCE
NOTES: REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- "FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.	
THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 FOR VEHICLE TRACKING PAD (PAY ITEM 653.35) OR AS SPECIFIED IN THE CONTRACT.	
REVISIONS	
MARCH 24, 2008 WHF	
JANUARY 13, 2009 WHF	

VAOT RURAL AREA MIX					
	LBS/AC				
% WEIGHT	BROADCAST	HYDROSEED	NAME	GERM %	PURITY %
37.5%	22.5	45	CREEPING RED FESCUE	85%	98%
37.5%	22.5	45	TALL FESCUE	90%	95%
5.0%	3	6	RED TOP	90%	95%
15.0%	9	18	BIRDSFOOT TREFOIL	85%	98%
5.0%	3	6	ANNUAL RYE GRASS	85%	95%
100%	60	120			

VAOT URBAN AREA MIX					
	LBS/AC				
% WEIGHT	BROADCAST	HYDROSEED	NAME	GERM %	PURITY %
42.5%	34	68	CREEPING RED FESCUE	85%	98%
10.0%	8	16	PERENNIAL RYE GRASS	90%	95%
42.5%	34	68	KENTUCKY BLUE GRASS	85%	85%
5.0%	4	8	ANNUAL RYE GRASS	85%	95%
100%	80	160			

SOIL AMENDMENT GUIDANCE				
FERTILIZER		LIME		
BROADCAST	HYDROSEED	BROADCAST	HYDROSEED	
10-20-10	FOLLOW	PELLETIZED	FOLLOW	
500 LBS/AC	MANUFACTURER	2 TONS/AC	MANUFACTURER	

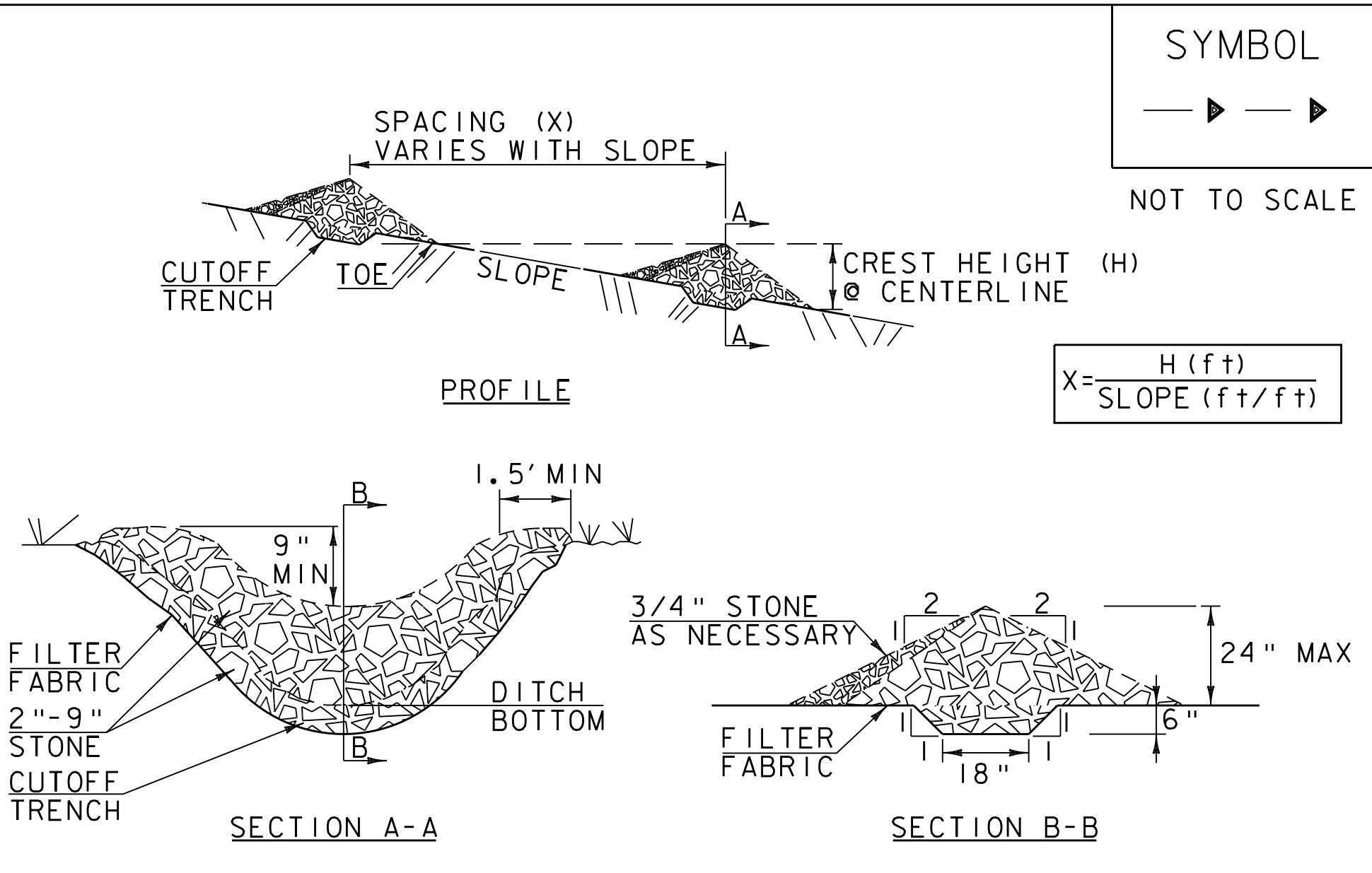
1. RURAL SEED MIX: USE AS INDICATED IN THE PLANS AND/OR FOR ALL ESTABLISHED UPLAND (NON WETLAND) AREAS DISTURBED BY THE CONTRACTOR.
2. URBAN SEED MIX: USE AS INDICATED IN THE PLANS AND/OR FOR ALL ESTABLISHED LAWN AREAS DISTURBED BY THE CONTRACTOR.
3. ALL SEED MIXTURES: SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS SEED.
4. FERTILIZER AND LIMESTONE: SHALL FOLLOW RATES SHOWN ON PLAN OR AS DIRECTED BY THE ENGINEER
5. HAY MULCH: TO BE PLACED ON EARTH SLOPES AT THE RATE OF 4 TONS/ACRE, ACHIEVE 90% GROUND COVER OR AS DIRECTED BY THE ENGINEER.
6. TOPSOIL: TO BE USED WITH SEED AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.
7. HYDROSEEDING: ALTHOUGH GUIDANCE IS GIVEN ABOVE THE SITE CONDITIONS AND THE TYPE OF HYDROSEED WILL ULTIMATELY DICTATE THE AMOUNTS AND TYPES OF SOIL AMENDMENTS TO BE APPLIED
8. TURF ESTABLISHMENT: PLACING SEED, FERTILIZER, LIME AND MULCH PRIOR TO SEPTEMBER 15 AND AFTER APRIL 15 CAN BETTER ENSURE A VIGOROUS GROWTH OF GRASS.

ADAPTED FROM VTRANS TECHNICAL LANDSCAPE MANUAL FOR ROADWAYS AND TRANSPORTATION FACILITIES	TURF ESTABLISHMENT
REVISIONS	
JUNE 23, 2009 WHF	
JANUARY 15, 2010 WHF	
FEBRUARY 16, 2011 WHF	



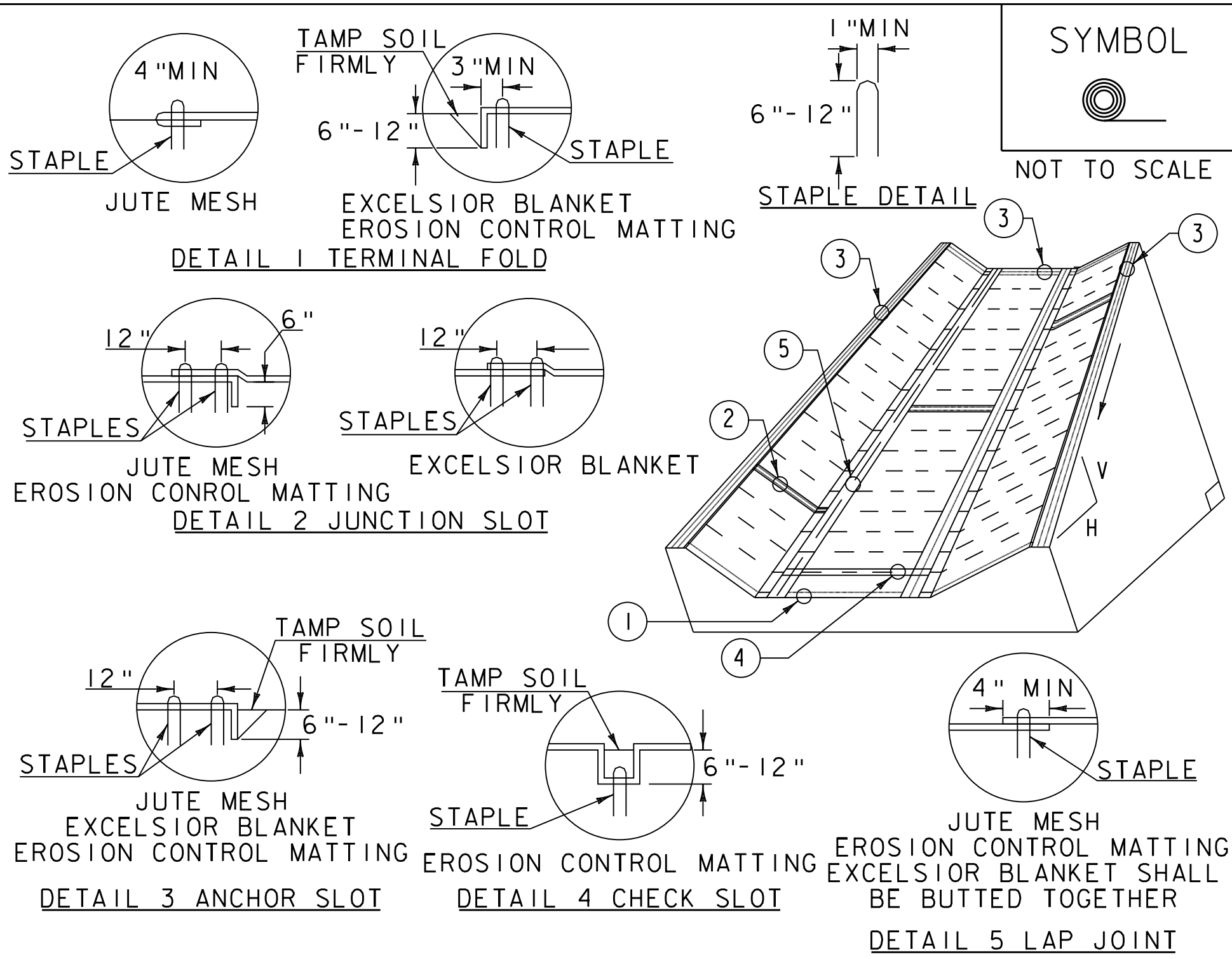
PROJECT NAME: BURLINGTON BIKE PATH	
PROJECT NUMBER: 57634.00	
FILE NAME: z57634ero_details.dgn	PLOT DATE: 3/23/2016
PROJECT LEADER: M.A. COLGAN	DRAWN BY: E.B. PARIZO
DESIGNED BY: VTRANS	CHECKED BY: C. HAKE
EPSC DETAILS (SHEET 1 OF 4)	SHEET 83 OF 119





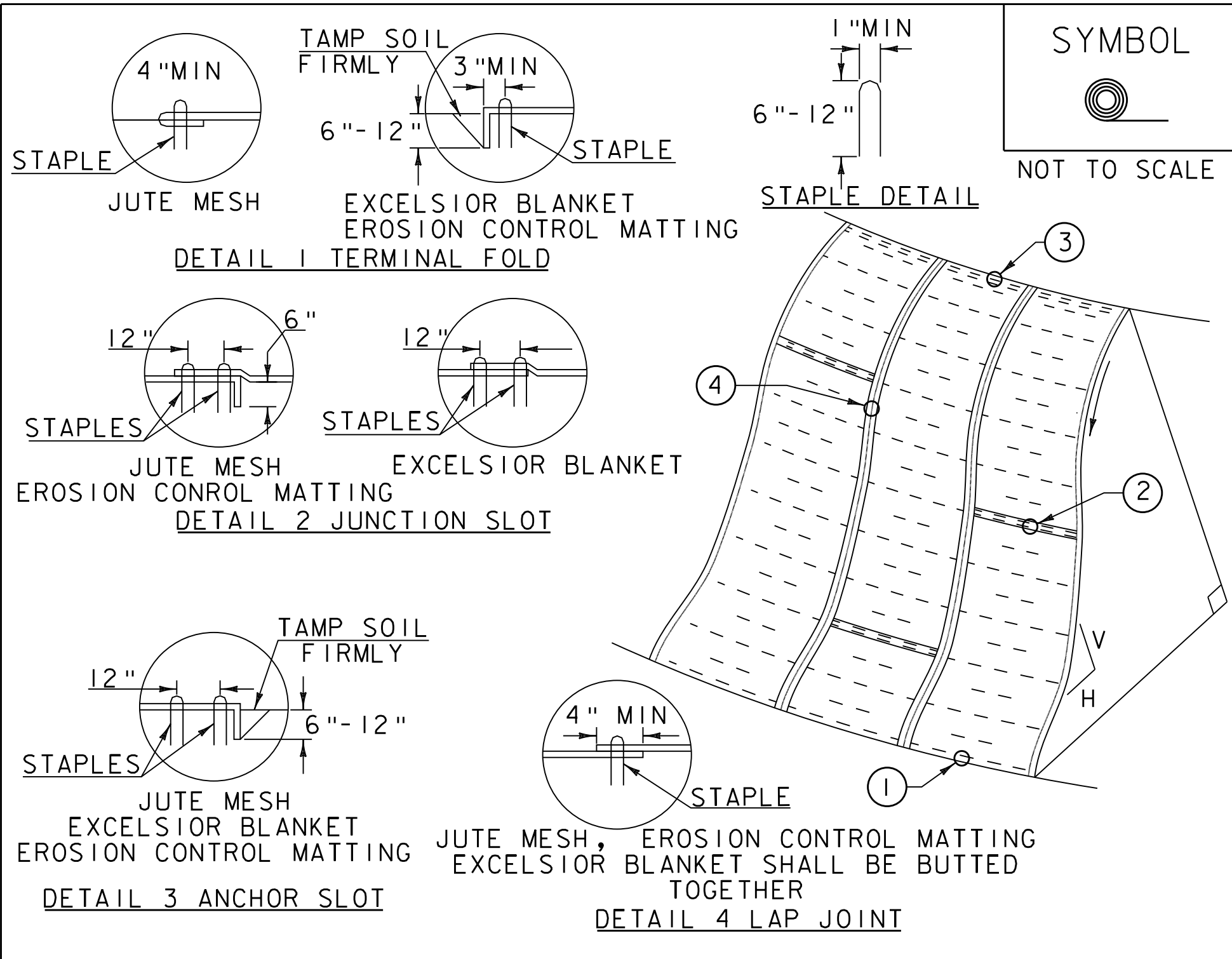
- CONSTRUCTION SPECIFICATIONS**
1. STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION.
  2. CHECK DAMS SHALL BE SPACED SO THAT THE ELEVATION OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION AS THE TOE OF THE UPSTREAM DAM.
  3. 3/4" FILTERING STONE MAY BE ADDED TO THE FACE OF THE CHECK DAM AS NECESSARY.
  4. EXTEND THE STONE A MINIMUM OF 1.5' BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
  5. PROTECT CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
  6. ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE.
  7. MAXIMUM DRAINAGE AREA 2 ACRES.

ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC ORIGINALLY DEVELOPED BY USDA-NRCS VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION	CHECK DAM
NOTES: REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- "FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.	
THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 FOR TEMPORARY STONE CHECK DAM, TYPE I (PAY ITEM 653.25)	
REVISIONS	
MARCH 21, 2008	WHF
JANUARY 8, 2009	WHF



- CONSTRUCTION SPECIFICATIONS**
1. EROSION MATTING, CHECK SLOTS, SHALL BE SPACED IN DITCH CHANNEL SO THAT ONE OCCURS WITHIN EACH 50' ON SLOPES OF MORE THAN 4% AND LESS THAN 6%. ON SLOPES OF 6% OR MORE, THEY SHALL BE SPACED SO THAT ONE OCCURS WITHIN EACH 25'.
  2. APPLY FERTILIZER, LIME SEED PRIOR TO PLACING MATTING.
  3. STAPLES ARE TO BE PLACED ALTERNATELY, IN COLUMNS APPROXIMATELY 2' APART AND IN ROWS APPROXIMATELY 3' APART. APPROXIMATELY 175 STAPLES ARE REQUIRED PER 4'X225' ROLL OF MATERIAL AND 125 STAPLES ARE REQUIRED PER 4'X150' ROLL OF MATERIAL.
  4. DISTURBED AREAS SHALL BE SMOOTHLY GRADED. EROSION CONTROL MATERIAL SHALL BE PLACED LOOSELY OVER GROUND SURFACE. DO NOT STRETCH.
  5. ALL TERMINAL ENDS AND TRANSVERSE LAPS SHALL BE STAPLED AT APPROXIMATELY 12" INTERVALS.

ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC ORIGINALLY DEVELOPED BY USDA-NRCS VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION	ROLLED EROSION CONTROL PRODUCT (RECP) DITCH
NOTES: REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- "FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.	
THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 AND AS SHOWN IN THE PLANS FOR TEMPORARY EROSION MATTING (PAY ITEM 653.20) OR PERMANENT EROSION MATTING (PAY ITEM 653.21).	
REVISIONS	
MARCH 8, 2007	JMF
APRIL 16, 2007	WHF
JANUARY 13, 2009	WHF



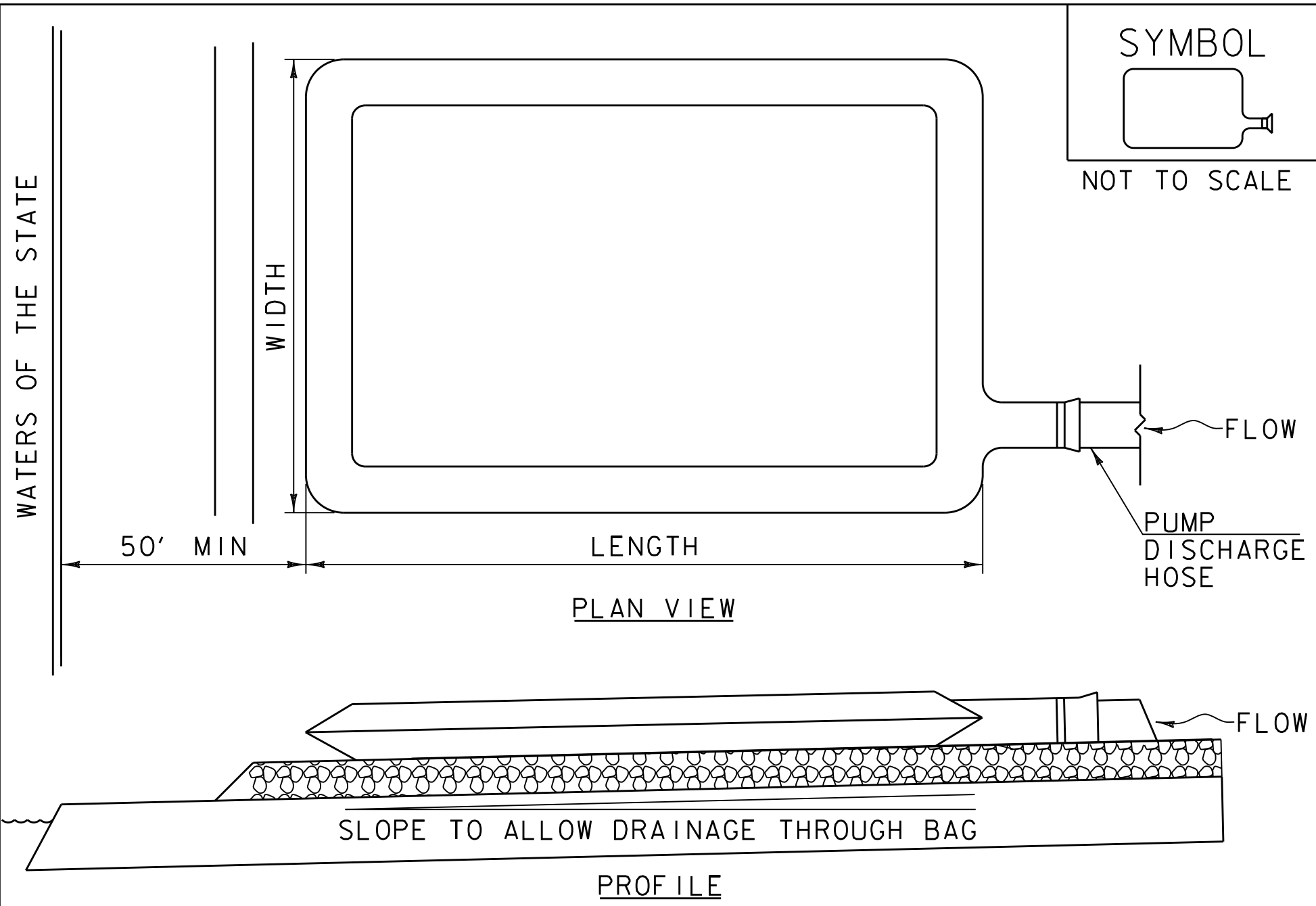
- CONSTRUCTION SPECIFICATIONS**
1. APPLY TO SLOPES GREATER THAN 3H: 1V OR WHERE NECESSARY TO AID IN ESTABLISHING VEGETATION.
  2. APPLY FERTILIZER, LIME SEED PRIOR TO PLACING MATTING.
  3. STAPLES ARE TO BE PLACED ALTERNATELY, IN COLUMNS APPROXIMATELY 2' APART AND IN ROWS APPROXIMATELY 3' APART. APPROXIMATELY 175 STAPLES ARE REQUIRED PER 4'X225' ROLL OF MATERIAL AND 125 STAPLES ARE REQUIRED PER 4'X150' ROLL OF MATERIAL.
  4. DISTURBED AREAS SHALL BE SMOOTHLY GRADED. EROSION CONTROL MATERIAL SHALL BE PLACED LOOSELY OVER GROUND SURFACE. DO NOT STRETCH.
  5. ALL TERMINAL ENDS AND TRANSVERSE LAPS SHALL BE STAPLED AT APPROXIMATELY 12" INTERVALS.

ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC ORIGINALLY DEVELOPED BY USDA-NRCS VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION	ROLLED EROSION CONTROL PRODUCT (RECP) SIDE SLOPE
NOTES: REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- "FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.	
THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 AND AS SHOWN IN THE PLANS FOR TEMPORARY EROSION MATTING (PAY ITEM 653.20) OR PERMANENT EROSION MATTING (PAY ITEM 653.21).	
REVISIONS	
APRIL 16, 2007	JMF
JANUARY 13, 2009	WHF



PROJECT NAME: BURLINGTON BIKE PATH	
PROJECT NUMBER: 57634.00	
FILE NAME: z57634ero-details.dgn	PLOT DATE: 3/23/2016
PROJECT LEADER: M.A. COLGAN	DRAWN BY: E.B. PARIZO
DESIGNED BY: VTRANS	CHECKED BY: C. HAKE
EPSC DETAILS (SHEET 2 OF 4)	SHEET 84 OF 119





CONSTRUCTION SPECIFICATIONS

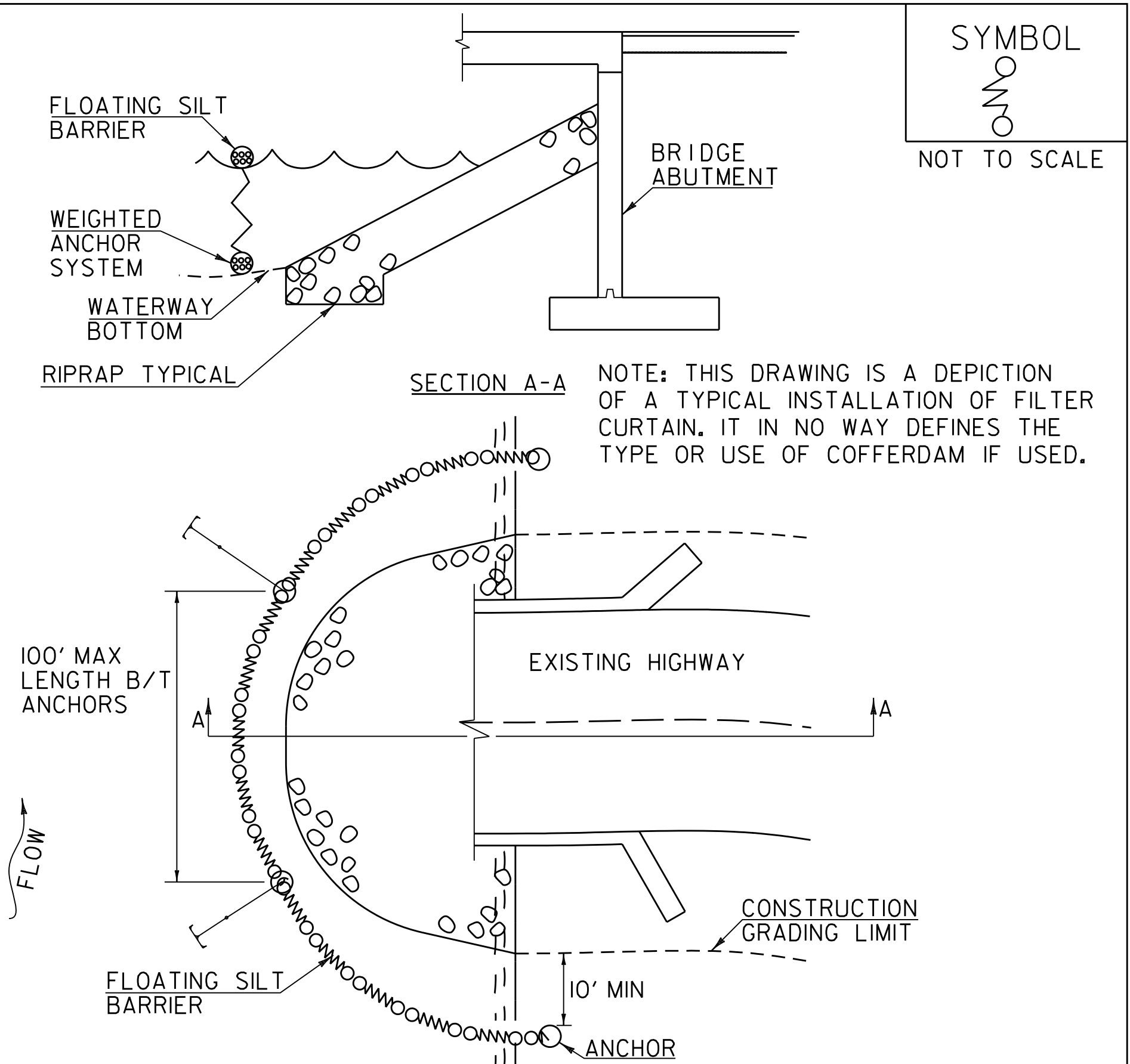
1. THE PRIMARY PURPOSE OF FILTER BAG IS TO RETAIN SILT, SAND, AND FINES DURING DEWATERING OPERATIONS.
2. FILTER BAGS SHALL BE INSTALLED ON A VEGETATED SLOPE GRADED TO ALLOW INCOMING WATER TO FLOW THROUGH THE BAG.
3. FILTER BAGS MAY ALSO BE PLACED ON COARSE AGGREGATE, STONE, OR HAYBALES TO INCREASE FILTRATION EFFICIENCY.
4. FILTER BAGS SHALL BE LOCATED A MINIMUM OF 50' FROM WATERS OF THE STATE UNLESS OTHERWISE APPROVED BY THE ENGINEER.
5. THE NECK OF THE FILTER BAG SHALL BE STRAPPED TIGHTLY TO THE DISCHARGE HOSE.
6. A FILTER BAG IS FULL WHEN IT NO LONGER CAN EFFICIENTLY FILTER SEDIMENT OR ALLOW WATER TO PASS AT A REASONABLE RATE.
7. FILTER BAG SHALL BE DISPOSED OF AS APPROVED IN THE EPSC PLAN OR AS DIRECTED BY THE ENGINEER.

FILTER BAG

NOTES:  
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- "FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 FOR FILTER BAG (PAY ITEM 653.45) AND AS SPECIFIED IN THE CONTRACT.

REVISIONS		
MARCH 24, 2008	WHF	
JANUARY 13, 2009	WHF	



CONSTRUCTION SPECIFICATIONS

1. FILTER CURTAIN SHALL NOT BE PLACED ACROSS A FLOWING WATERWAY, OR IN A WATERWAY WITH STREAM VELOCITIES GREATER THAN 1.5 FEET/SECOND.
2. MAXIMUM 100' LENGTH BETWEEN ANCHORS.
3. LAST SECTION SHALL TERMINATE A MINIMUM OF 10' BEYOND LIMIT OF DISTURBANCE.
4. THE WEIGHTED ANCHOR SYSTEM SHALL BE A TYPE WHICH ALLOWS THE CURTAIN TO CONFORM TO THE BOTTOM OF THE WATERWAY.
5. THE CURTAIN SHALL BE REMOVED BY SLOWLY PULLING TOWARD THE SHORE MINIMIZING THE ESCAPE OF SEDIMENTS INTO WATERWAY.

FILTER CURTAIN

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 649 FOR GEOTEXTILE FOR FILTER CURTAIN (PAY ITEM 649.6).

REVISIONS		
APRIL 1, 2008	WHF	
JANUARY 13, 2009	WHF	
SEPTEMBER 4, 2009	WHF	



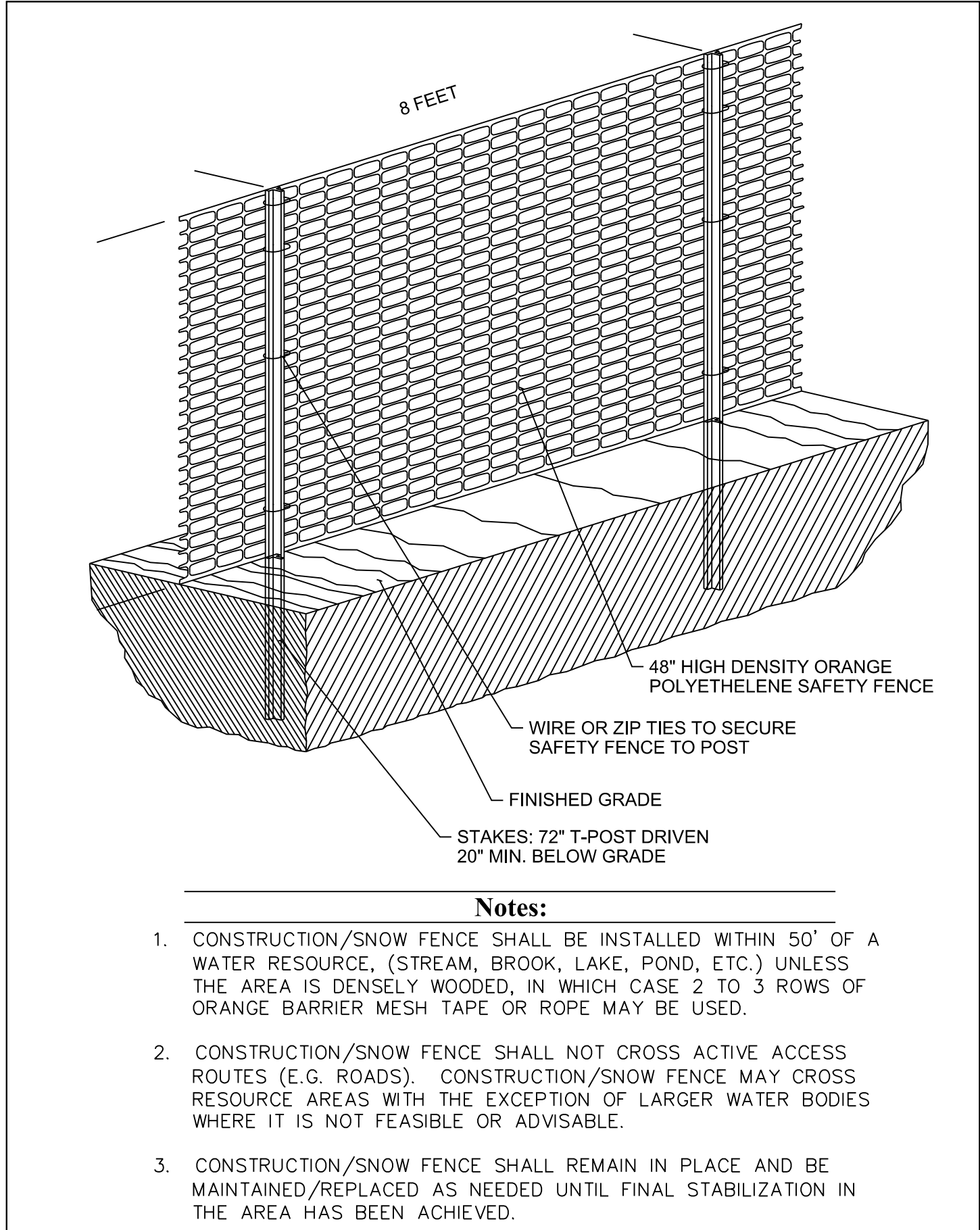
PROJECT NAME: BURLINGTON BIKE PATH

PROJECT NUMBER: 57634.00

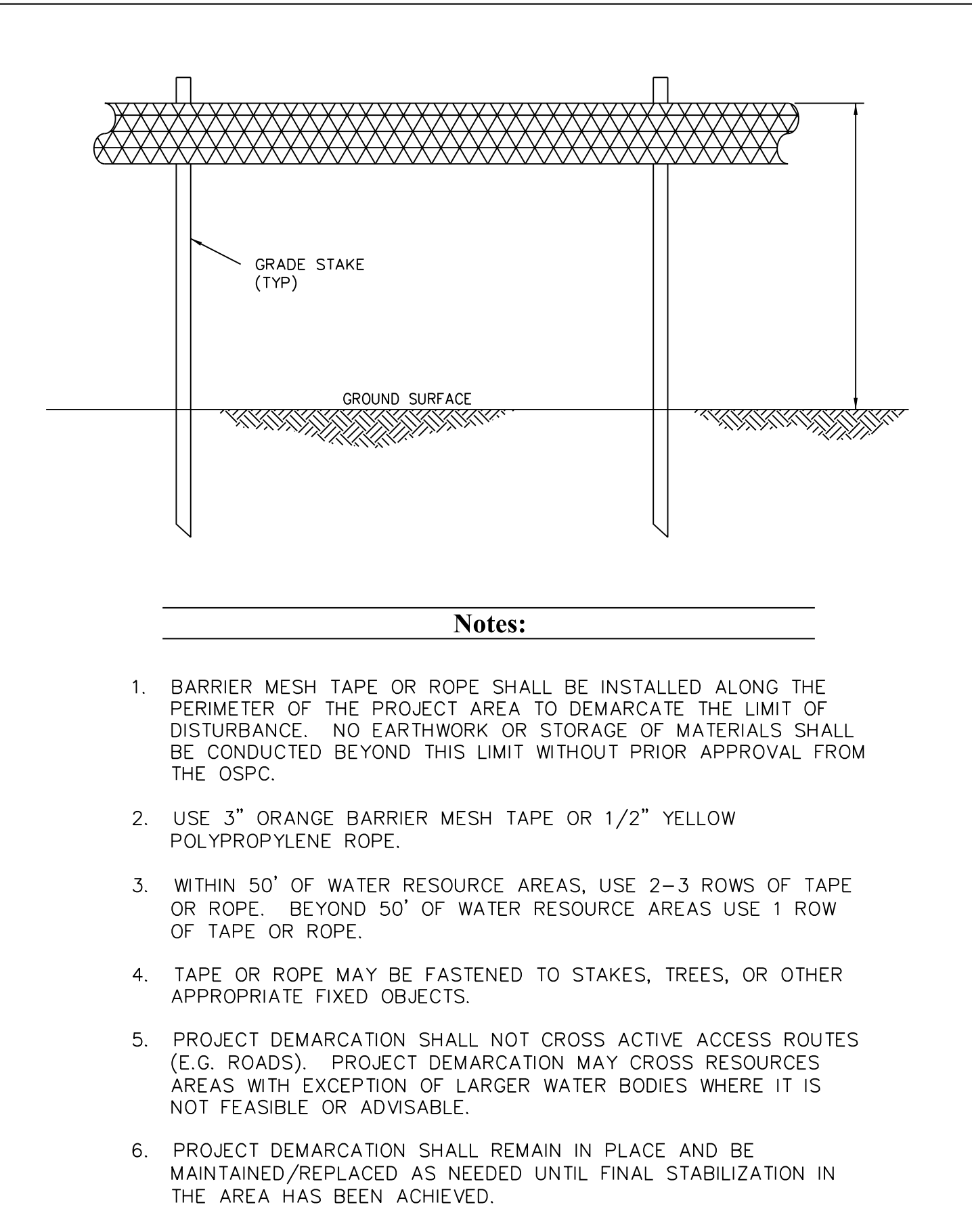
FILE NAME: z57634ero_details.dgn  
PROJECT LEADER: M.A. COLGAN  
DESIGNED BY: VTRANS  
EPSC DETAILS (SHEET 3 OF 4)

PLOT DATE: 3/23/2016  
DRAWN BY: E.B. PARIZO  
CHECKED BY: C. HAKE  
SHEET 85 OF 119





**5 Construction/Snow Fence** 12/12  
N.T.S. Source: VHB LD_651



**3 Barrier Mesh Tape or Rope** 12/12  
N.T.S. Source: VHB LD_

MULCH MATERIAL AND APPLICATION				
MULCH MATERIAL	QUALITY STANDARDS	PER 1,000 SQ-FT	PER ACRE	DEPTH OF APPLICATION
WOOD CHIPS OR SHAVINGS	AIR DRIED, FREE OF OBJECTIONABLE MATERIAL	500 - 900 LBS	10 - 20 TONS	2" - 7"
WOOD FIBER CELLULOSE (PARTIALLY DIGESTED WOOD FIBERS)	MADE FROM NATURAL WOOD USUALLY WITH GREEN DYE AND DISPERSING AGENT	50 LBS	2,000 LBS	N/A
GRAVEL, CRUSHED STONE OR SLAG	WASHED; SIZE 2B OR 3A - 1 1/2"	9 CY	405 CY	3"
HAY OR STRAW	AIR-DRIED; FREE OF UNDESIRABLE SEEDS AND COARSE MATERIALS	90 - 100 LBS, 2-3 BALES	2 TONS (100-120 BALES)	COVER ABOUT 90% SURFACE
COMPOST	UP TO 3" PIECES, MODERATELY TO HIGHLY STABLE	3 - 9 CY	3 - 9 CY	1-3"
Erosion Control Mix	WELL-GRADED MIXTURE OF PARTICLE SIZES. ORGANIC CONTENT BETWEEN 80-100% DRY WEIGHT. PARTICLE SIZE SHALL PASS 6" SCREEN (100%)	*Slopes 3(Hz.):1(Vert.) = 2 inch depth plus additional 1/2 inch depth per 20 ft. of slope up to 100 ft. **Slopes between 3(Hz.):1(Vert.) and 2(Hz.):1(Vert.) = 4 inch depth plus additional 1/2 inch per 20 ft. of slope up to 100 ft. ***Slopes steeper than 2(Hz.):1(Vert.) applicability to specific site and mulch depth to be reviewed and approved prior to use by OPSC or EPSC Specialist		

**Notes:**

- APPLY TACKIFIER AS NEEDED TO MINIMIZE POTENTIAL FOR MULCH TO BLOW AWAY.
- MULCH MUST NOT CONTAIN INVASIVE PLANT SPECIES. (SEEDS OR SEEDLINGS)
- TACKIFIER MAY BE WATER, NETTING, OR SIMILAR.
- OTHER THAN EROSION CONTROL MIX, MULCH IS NOT TO BE INSTALLED ON SLOPES > 3:1.

**2 Mulch Table** 12/12  
N.T.S. Source: VHB LD_

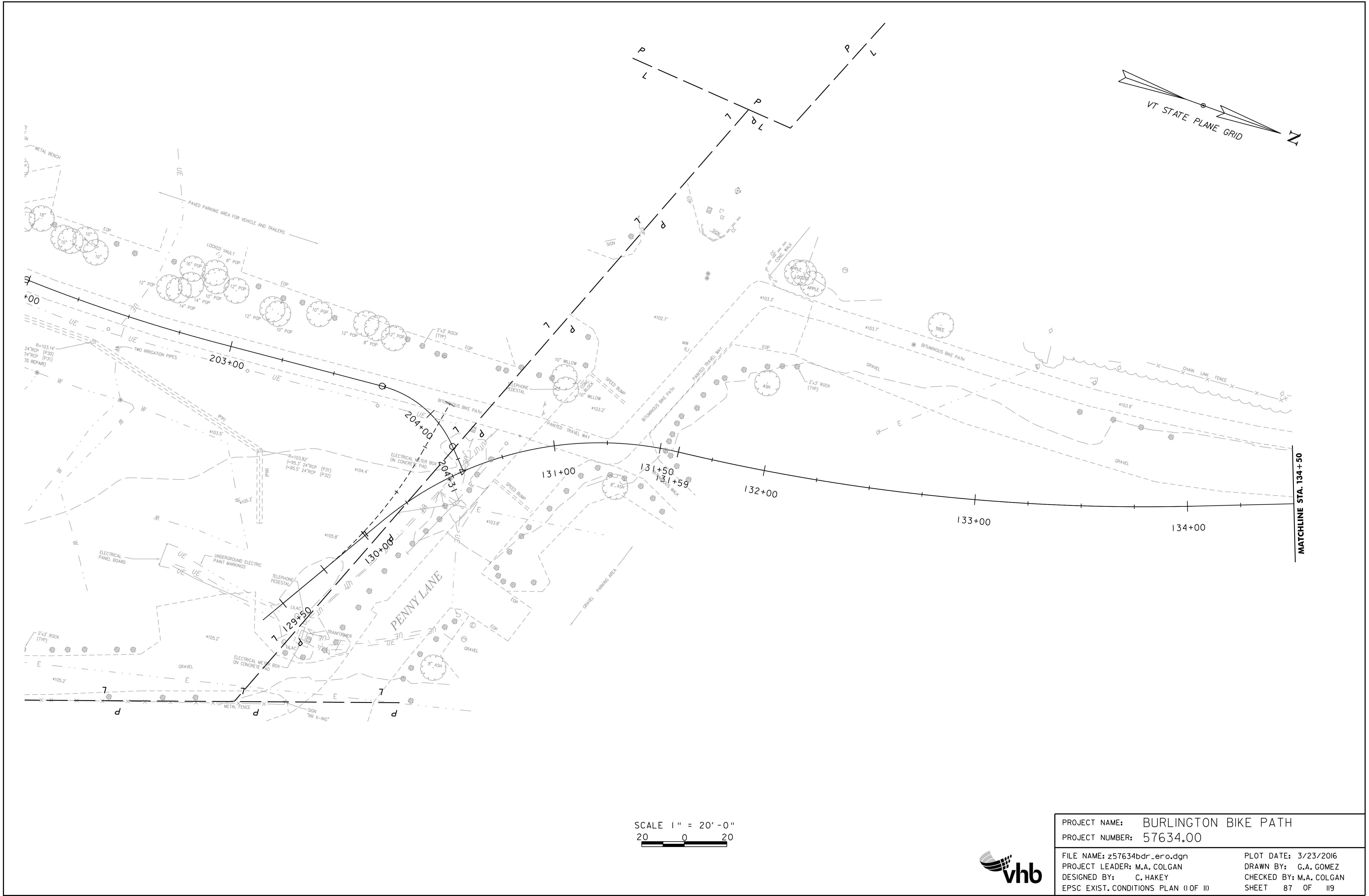
PROJECT NAME: BURLINGTON BIKE PATH  
PROJECT NUMBER: 57634.00

FILE NAME: z57634ero_details.dgn  
PROJECT LEADER: M.A. COLGAN  
DESIGNED BY: VTRANS  
EPSC DETAILS (SHEET 4 OF 4)

PLOT DATE: 3/23/2016  
DRAWN BY: E.B. PARIZO  
CHECKED BY: C. HAKY  
SHEET 86 OF 119







PROJECT NAME: BURLINGTON BIKE PATH

PROJECT NUMBER: 57634.00

FILE NAME: z57634bdr_ero.dgn

PROJECT LEADER: M.A. COLGAN

DESIGNED BY: C. HAKEY

EPSC EXIST. CONDITIONS PLAN (1 OF 11)

PLOT DATE: 3/23/2016

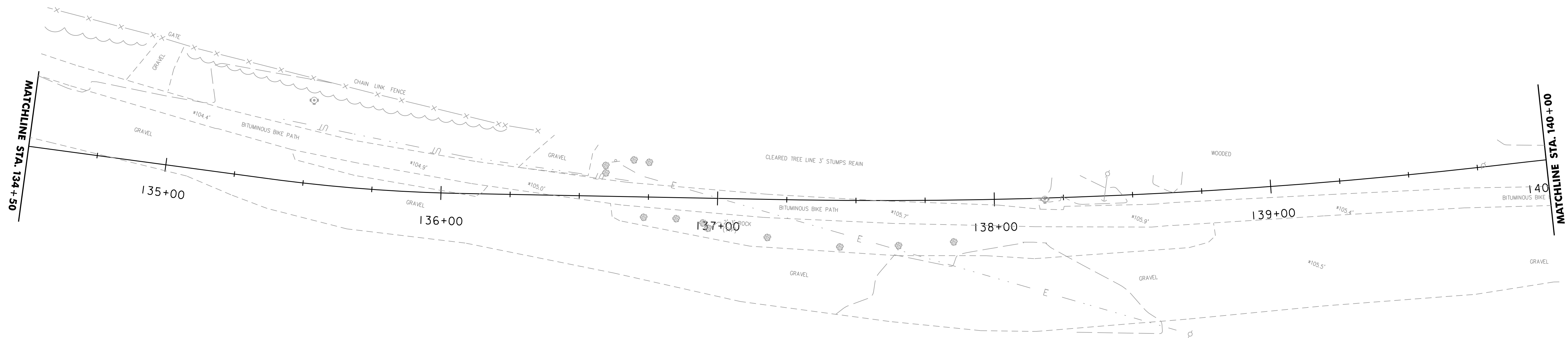
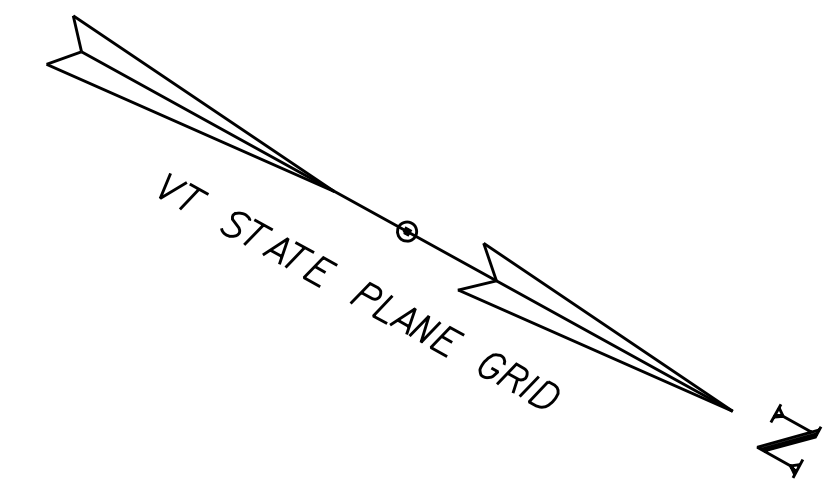
DRAWN BY: G.A. GOMEZ

CHECKED BY: M.A. COLGAN

SHEET 87 OF 119







SCALE 1" = 20'-0"  
20 0 20

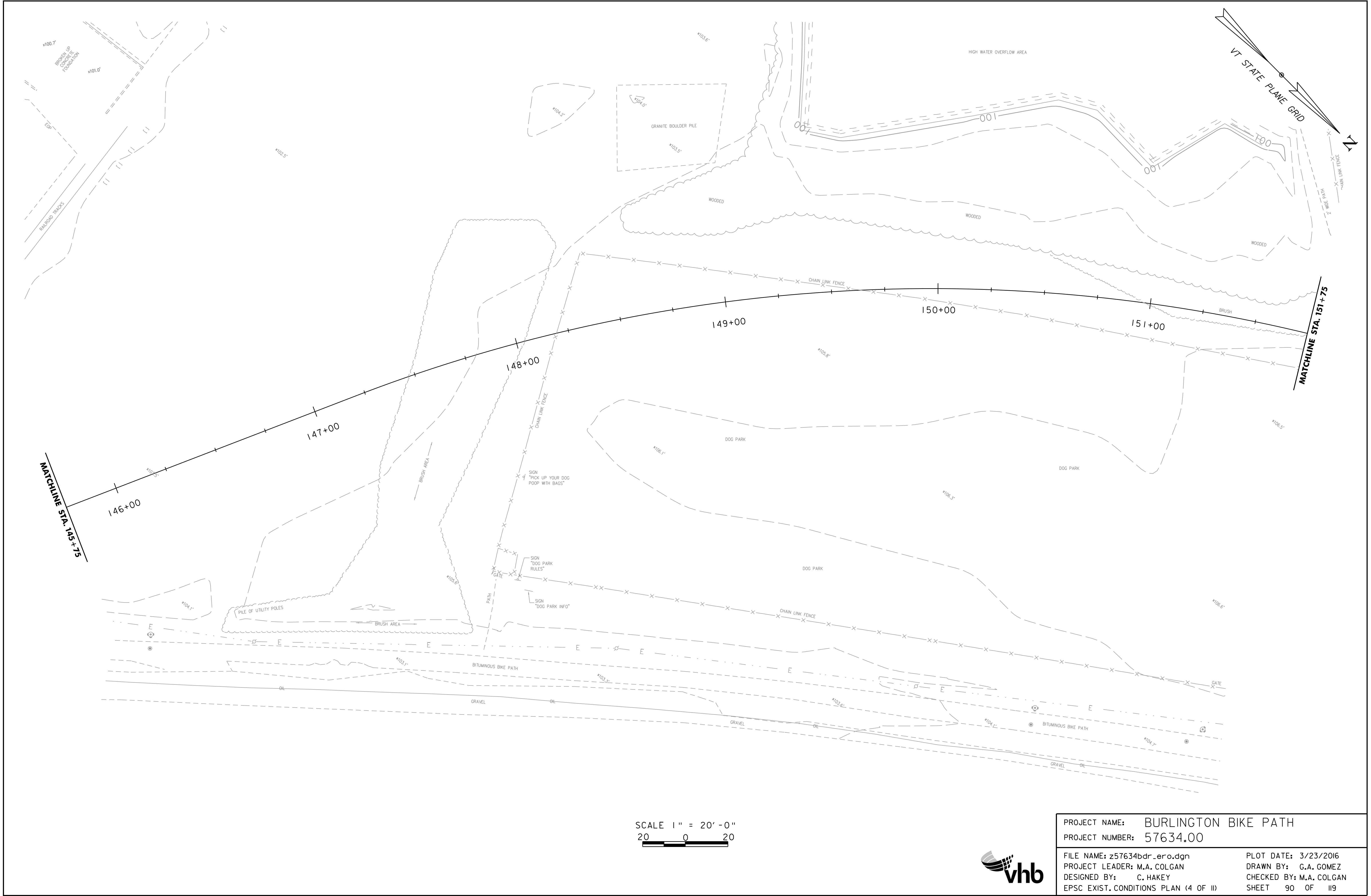


PROJECT NAME: BURLINGTON BIKE PATH	
PROJECT NUMBER: 57634.00	
FILE NAME: z57634bdr_ero.dgn	PLOT DATE: 3/23/2016
PROJECT LEADER: M.A. COLGAN	DRAWN BY: G.A. GOMEZ
DESIGNED BY: C. HAKEY	CHECKED BY: M.A. COLGAN
EPSC EXIST. CONDITIONS PLAN (2 OF 11)	SHEET 88 OF 119





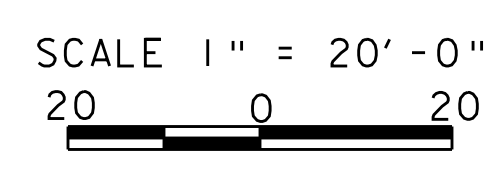
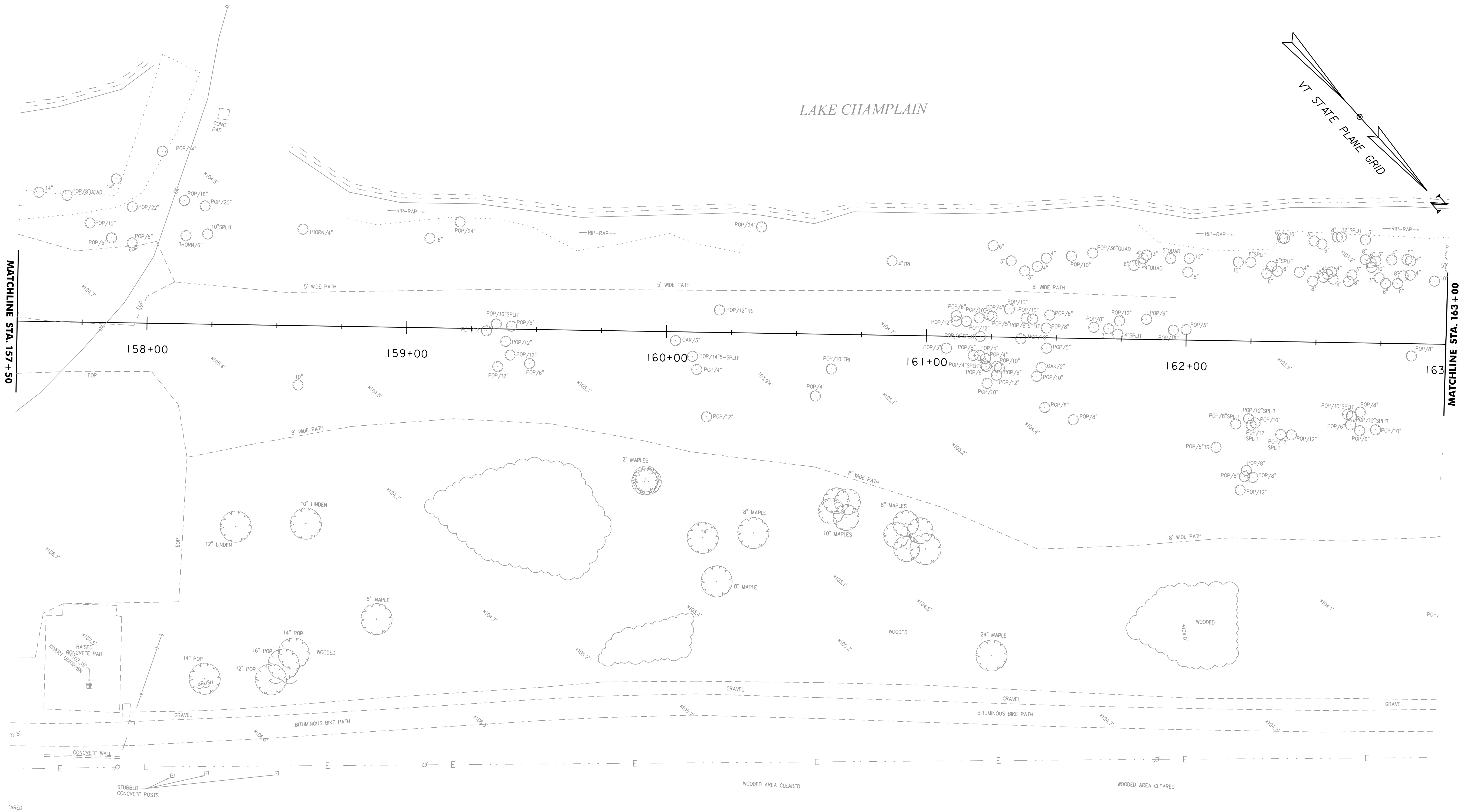






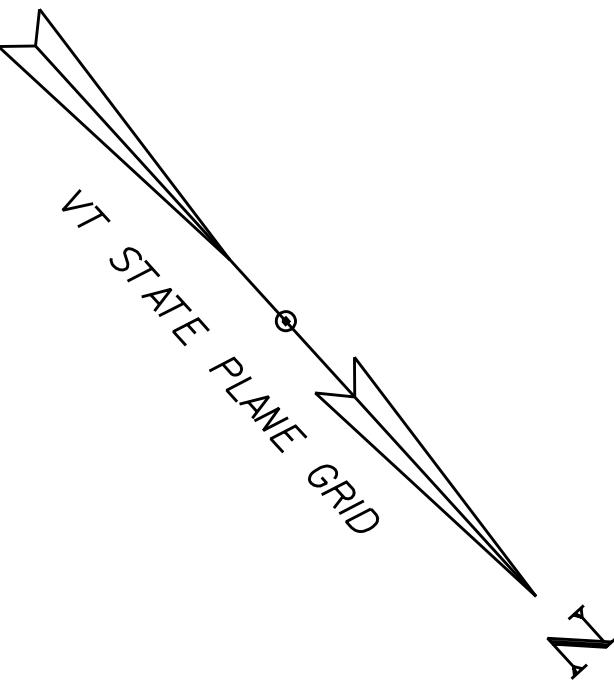




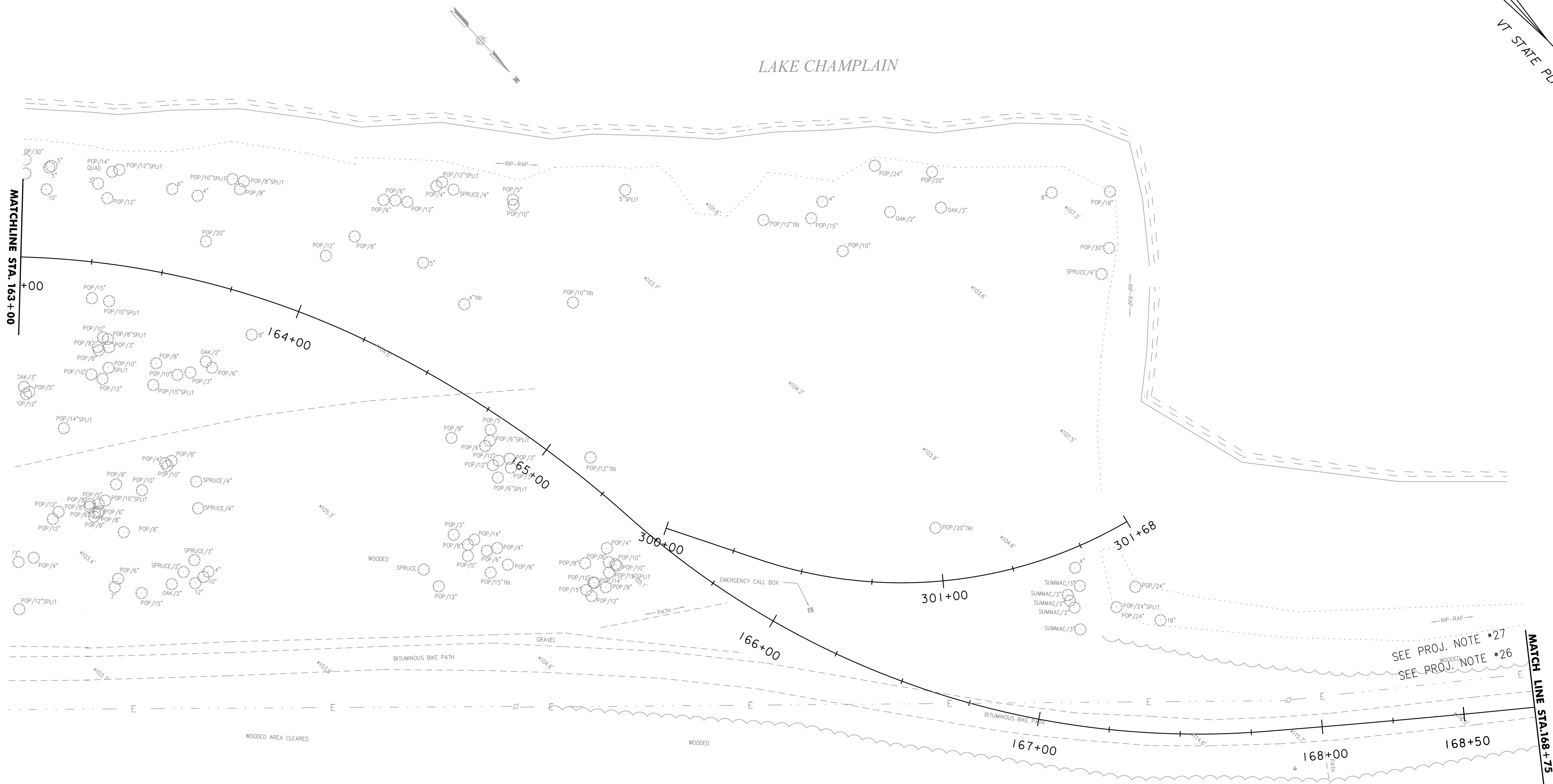


PROJECT NAME: BURLINGTON BIKE PATH	
PROJECT NUMBER: 57634.00	
FILE NAME: z57634bdr_ero.dgn	PLOT DATE: 3/23/2016
PROJECT LEADER: M.A. COLGAN	DRAWN BY: G.A. GOMEZ
DESIGNED BY: C. HAKEY	CHECKED BY: M.A. COLGAN
EPSC EXIST. CONDITIONS PLAN (6 OF 11)	SHEET 92 OF 119





LAKE CHAMPLAIN



N/F  
STATE OF VERMONT  
BK 168 PG 566

N/F  
CITY OF BURLINGTON  
BK 438 PG 402

SCALE 1" = 20'-0"  
20 0 20

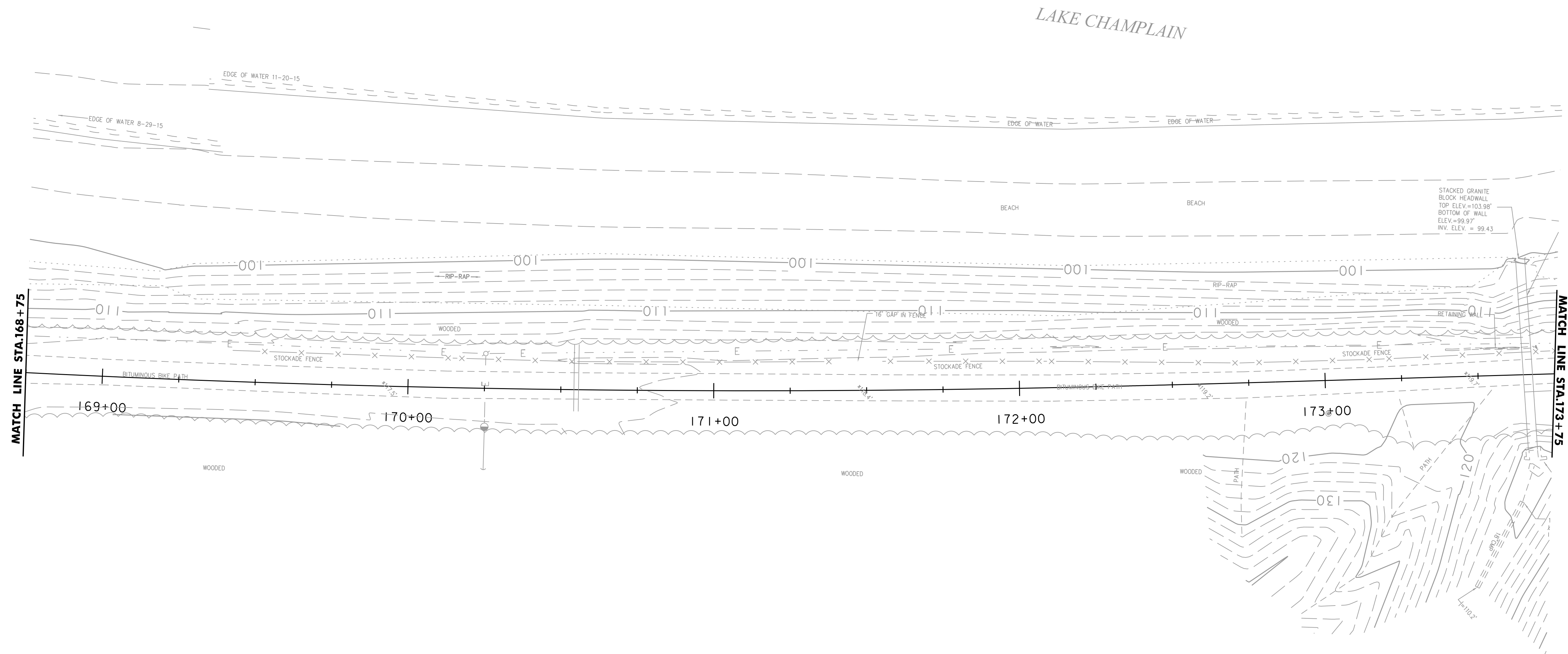
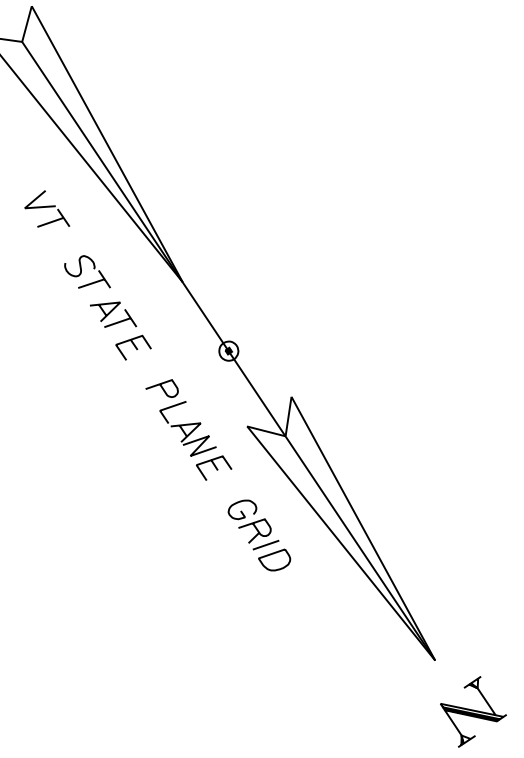
R.O.W. (SEE PROJ. NOTE #27)  
R.O.W. (SEE PROJ. NOTE #26)

PROJECT NAME: BURLINGTON BIKE PATH  
PROJECT NUMBER: 57634.00

FILE NAME: z57634bdr_ero.dgn	PLOT DATE: 3/23/2016
PROJECT LEADER: M.A. COLGAN	DRAWN BY: G.A. GOMEZ
DESIGNED BY: C. HAKEY	CHECKED BY: M.A. COLGAN
EPSC EXIST. CONDITIONS PLAN (7 OF 11)	SHEET 93 OF 119







SCALE 1" = 20'-0"  
20 0 20



PROJECT NAME: BURLINGTON BIKE PATH  
PROJECT NUMBER: 57634.00

FILE NAME: z57634bdr_ero.dgn  
PROJECT LEADER: M.A. COLGAN  
DESIGNED BY: D. M. PECK  
EPSC EXIST. CONDITIONS PLAN (8 OF 11)

PLOT DATE: 3/23/2016  
DRAWN BY: M.F. SUFFEL  
CHECKED BY: E.B. PARIZO  
SHEET 94 OF 119





SCALE 1" = 20' - 0"  
20 0 20



PROJECT NAME: BURLINGTON BIKE PATH  
PROJECT NUMBER: 57634.00

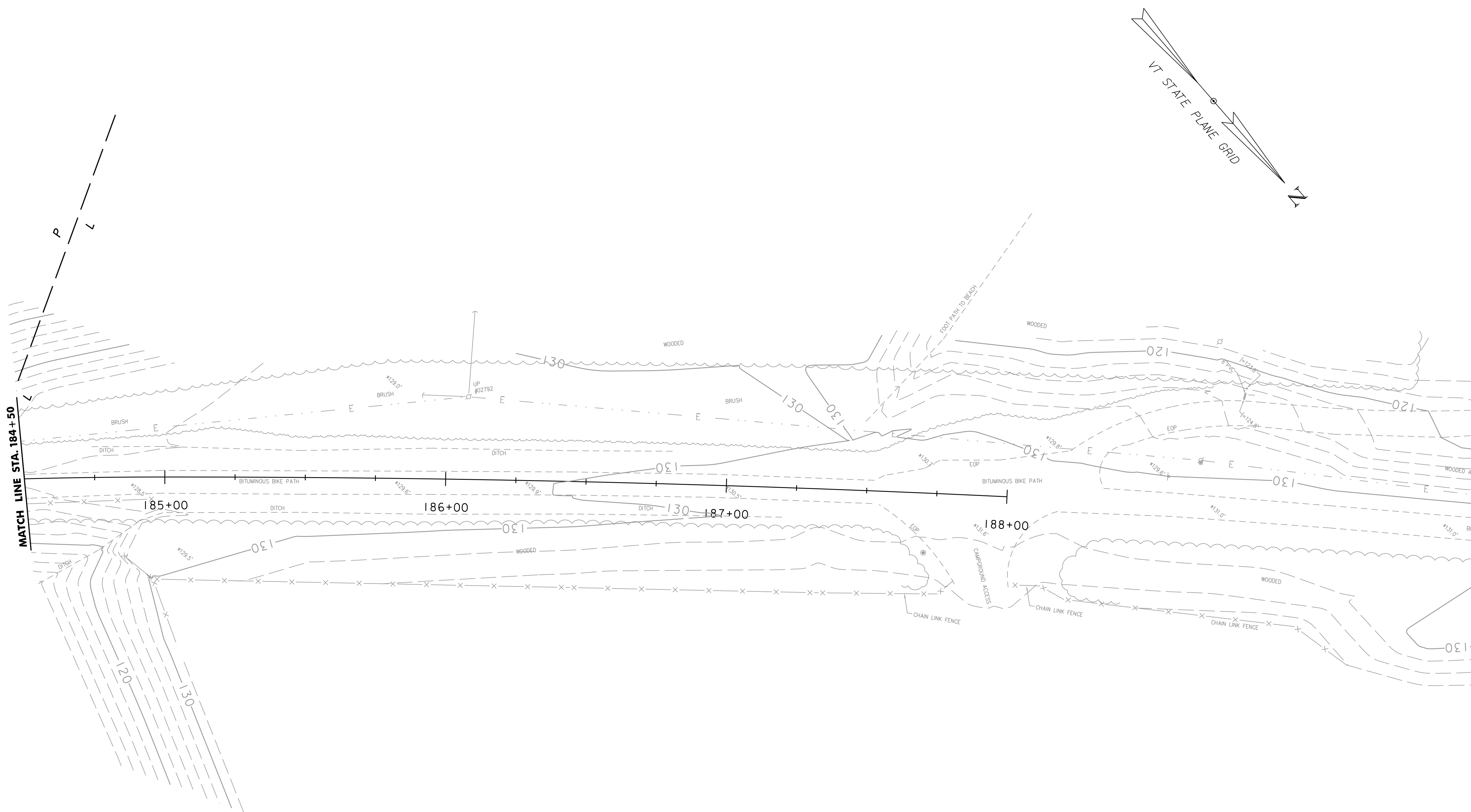
FILE NAME: z57634bdr_ero.dgn  
PROJECT LEADER: M.A. COLGAN  
DESIGNED BY: D.M. PECK  
EPSC EXIST. CONDITIONS PLAN (9 OF 11)

PLOT DATE: 3/23/2016  
DRAWN BY: M.F. SUFFEL  
CHECKED BY: E.B. PARIZO  
SHEET 95 OF 119







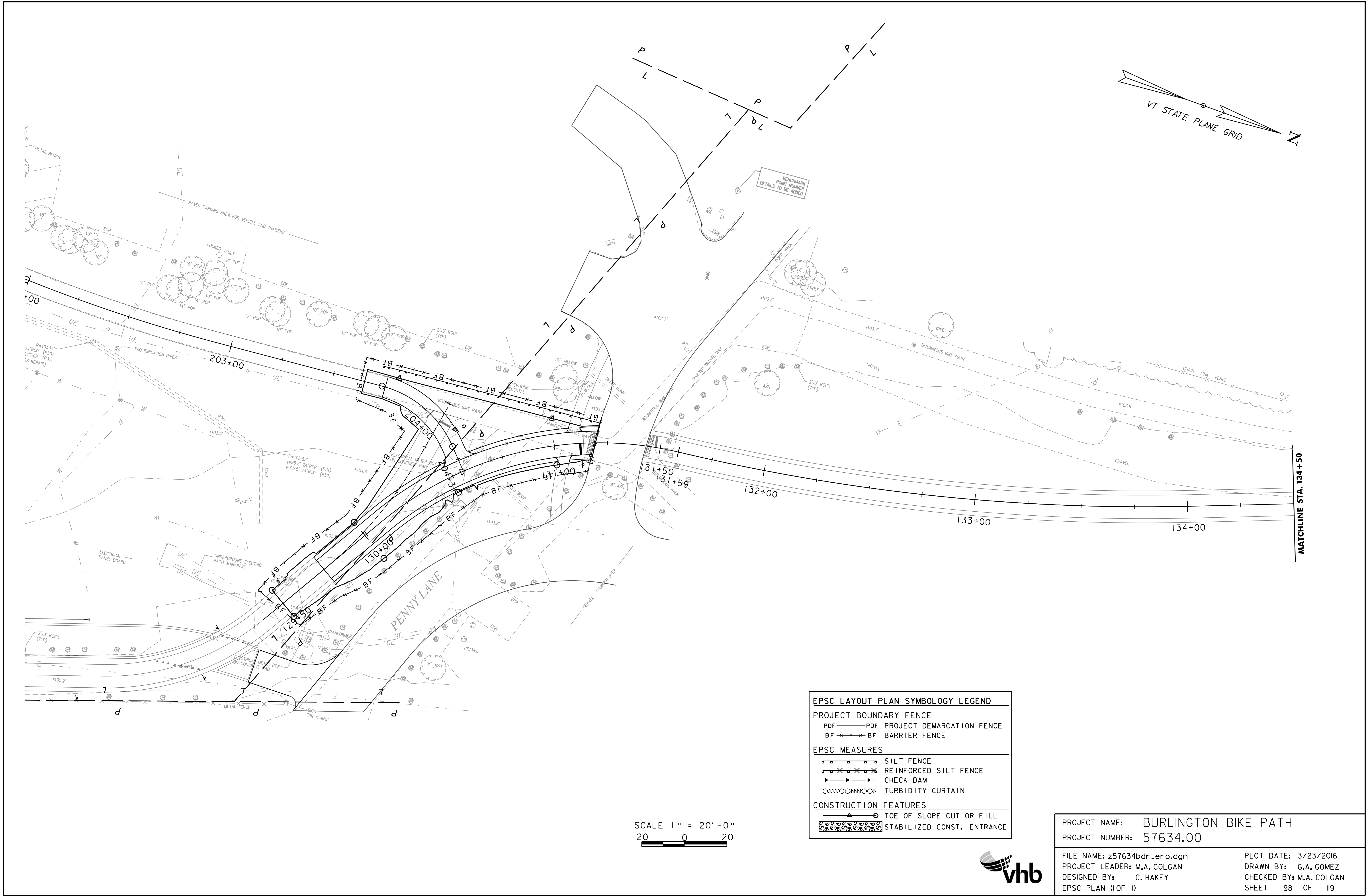


SCALE 1" = 20'-0"  
20 0 20



PROJECT NAME: BURLINGTON BIKE PATH	
PROJECT NUMBER: 57634.00	
FILE NAME: z57634bdr_ero.dgn	PLOT DATE: 3/23/2016
PROJECT LEADER: M.A.COLGAN	DRAWN BY: M.F.SUFFEL
DESIGNED BY: D.M.PECK	CHECKED BY: E.B. PARIZO
EPSC EXIST. CONDITIONS PLAN (II OF III)	SHEET 97 OF 119





EPSC LAYOUT PLAN SYMBOLOGY LEGEND	
PROJECT BOUNDARY FENCE	
PDF	PDF PROJECT DEMARCATION FENCE
BF	BF BARRIER FENCE
EPSC MEASURES	
	SILT FENCE
	REINFORCED SILT FENCE
	CHECK DAM
	TURBIDITY CURTAIN
CONSTRUCTION FEATURES	
	TOE OF SLOPE CUT OR FILL
	STABILIZED CONST. ENTRANCE

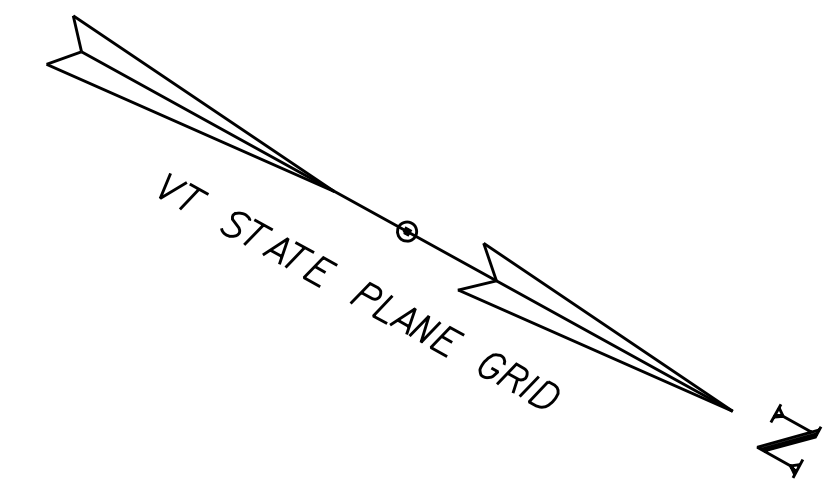
PROJECT NAME: BURLINGTON BIKE PATH  
PROJECT NUMBER: 57634.00

FILE NAME: z57634bdr_ero.dgn  
PROJECT LEADER: M.A. COLGAN  
DESIGNED BY: C. HAKEY  
EPSC PLAN (1 OF 11)

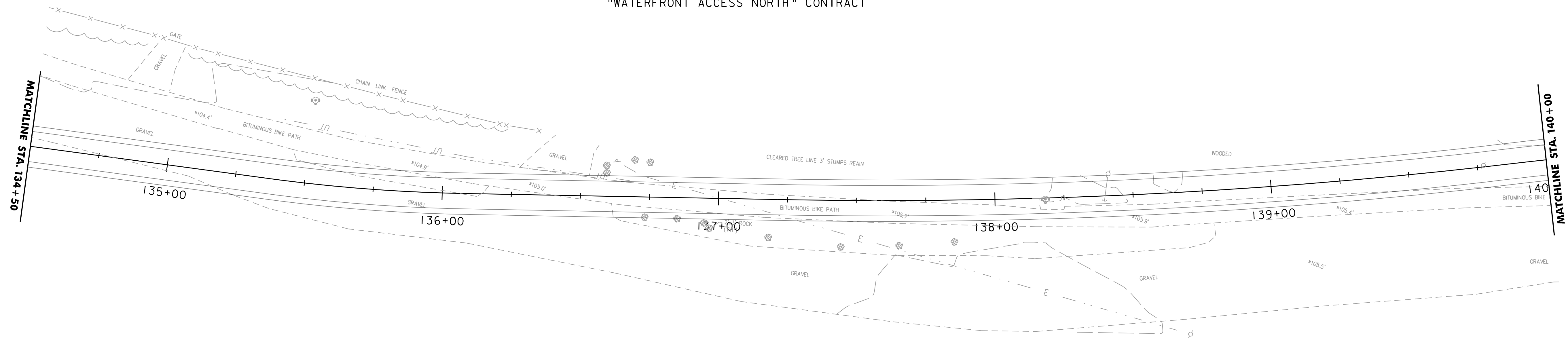
PLOT DATE: 3/23/2016  
DRAWN BY: G.A. GOMEZ  
CHECKED BY: M.A. COLGAN  
SHEET 98 OF 119







BIKE PATH FROM STA. 131+13  
TO 140+96 CONSTRUCTED UNDER THE  
"WATERFRONT ACCESS NORTH" CONTRACT



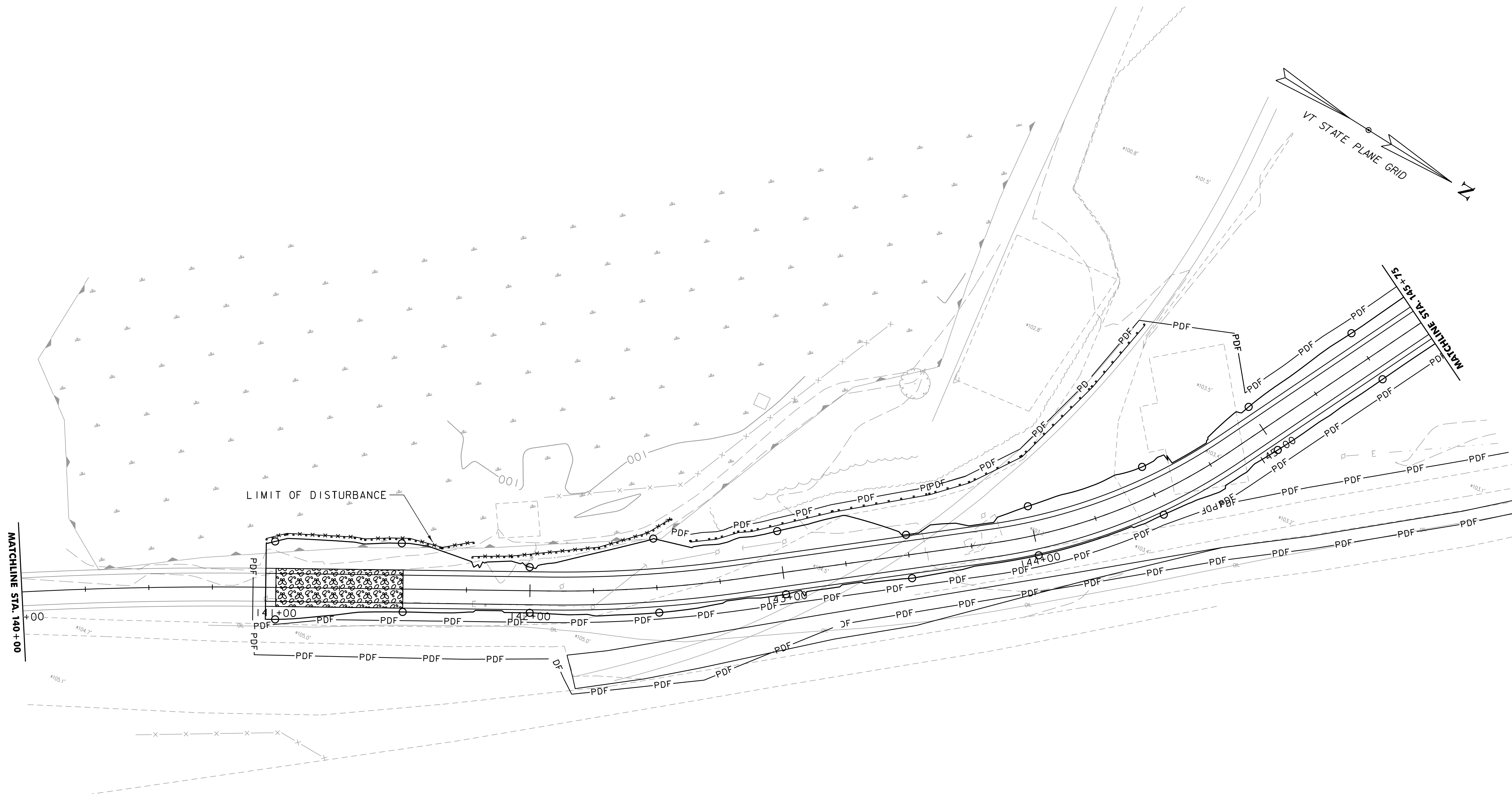
SCALE 1" = 20'-0"  
20 0 20

EPSC LAYOUT PLAN SYMBOLOGY LEGEND	
PROJECT BOUNDARY FENCE	
PDF	PROJECT DEMARCATION FENCE
BF	BARRIER FENCE
EPSC MEASURES	
	SILT FENCE
	REINFORCED SILT FENCE
	CHECK DAM
	TURBIDITY CURTAIN
CONSTRUCTION FEATURES	
	TOE OF SLOPE CUT OR FILL
	STABILIZED CONST. ENTRANCE



PROJECT NAME: BURLINGTON BIKE PATH	
PROJECT NUMBER: 57634.00	
FILE NAME: z57634bdr_ero.dgn	PLOT DATE: 3/23/2016
PROJECT LEADER: M.A. COLGAN	DRAWN BY: G.A. GOMEZ
DESIGNED BY: C. HAKEY	CHECKED BY: M.A. COLGAN
EPSC PLAN (2 OF 11)	SHEET 99 OF 119



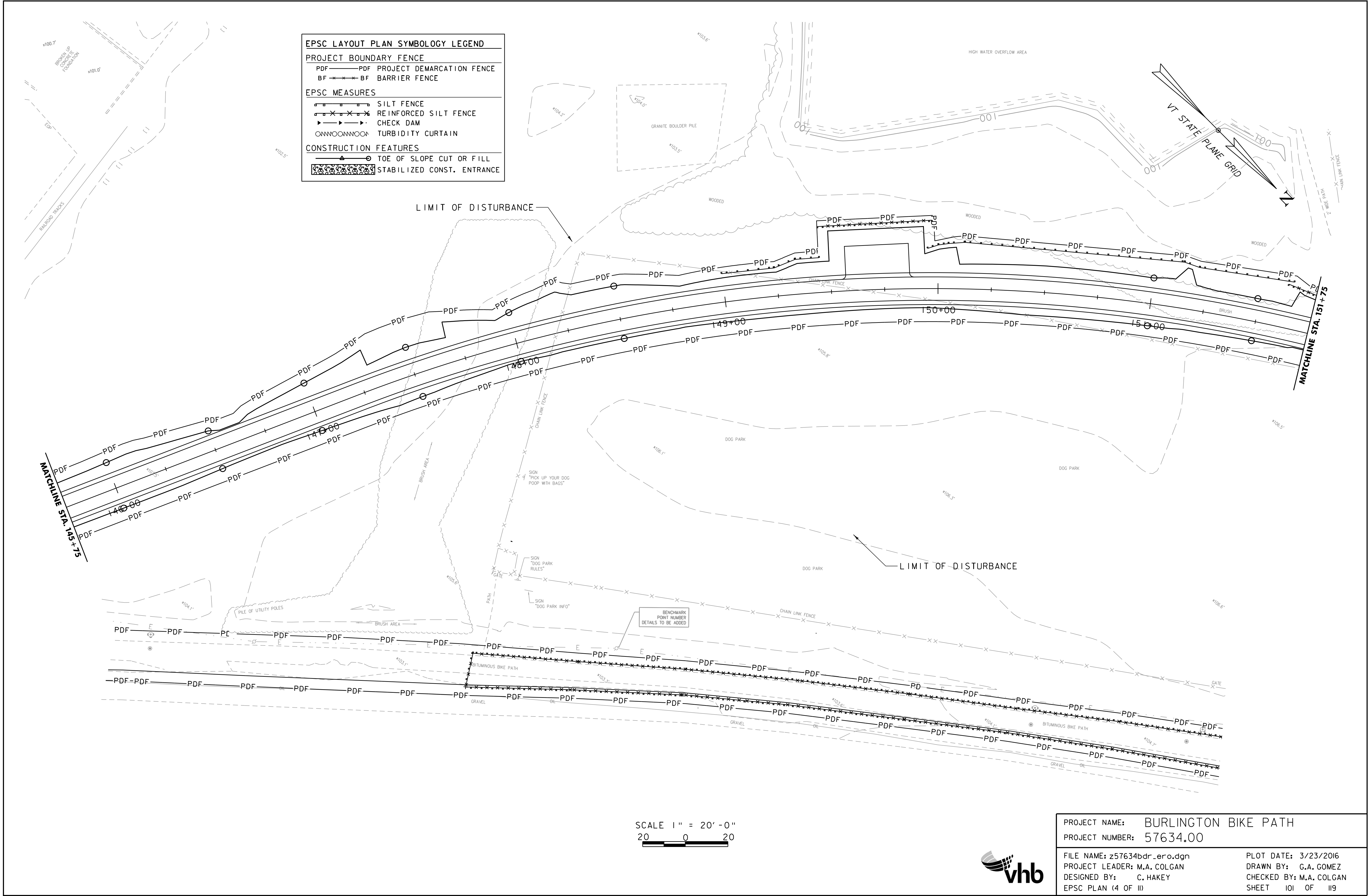


EPSC LAYOUT PLAN SYMBOLOGY LEGEND	
PROJECT BOUNDARY FENCE	
PDF	PDF PROJECT DEMARCATION FENCE
BF	BF BARRIER FENCE
EPSC MEASURES	
	SILT FENCE
	REINFORCED SILT FENCE
	CHECK DAM
	TURBIDITY CURTAIN
CONSTRUCTION FEATURES	
	TOE OF SLOPE CUT OR FILL
	STABILIZED CONST. ENTRANCE

PROJECT NAME: BURLINGTON BIKE PATH	
PROJECT NUMBER: 57634.00	
FILE NAME: z57634bdr_ero.dgn	PLOT DATE: 3/23/2016
PROJECT LEADER: M.A. COLGAN	DRAWN BY: G.A. GOMEZ
DESIGNED BY: C. HAKEY	CHECKED BY: M.A. COLGAN
EPSC PLAN (3 OF 11)	SHEET 100 OF 119

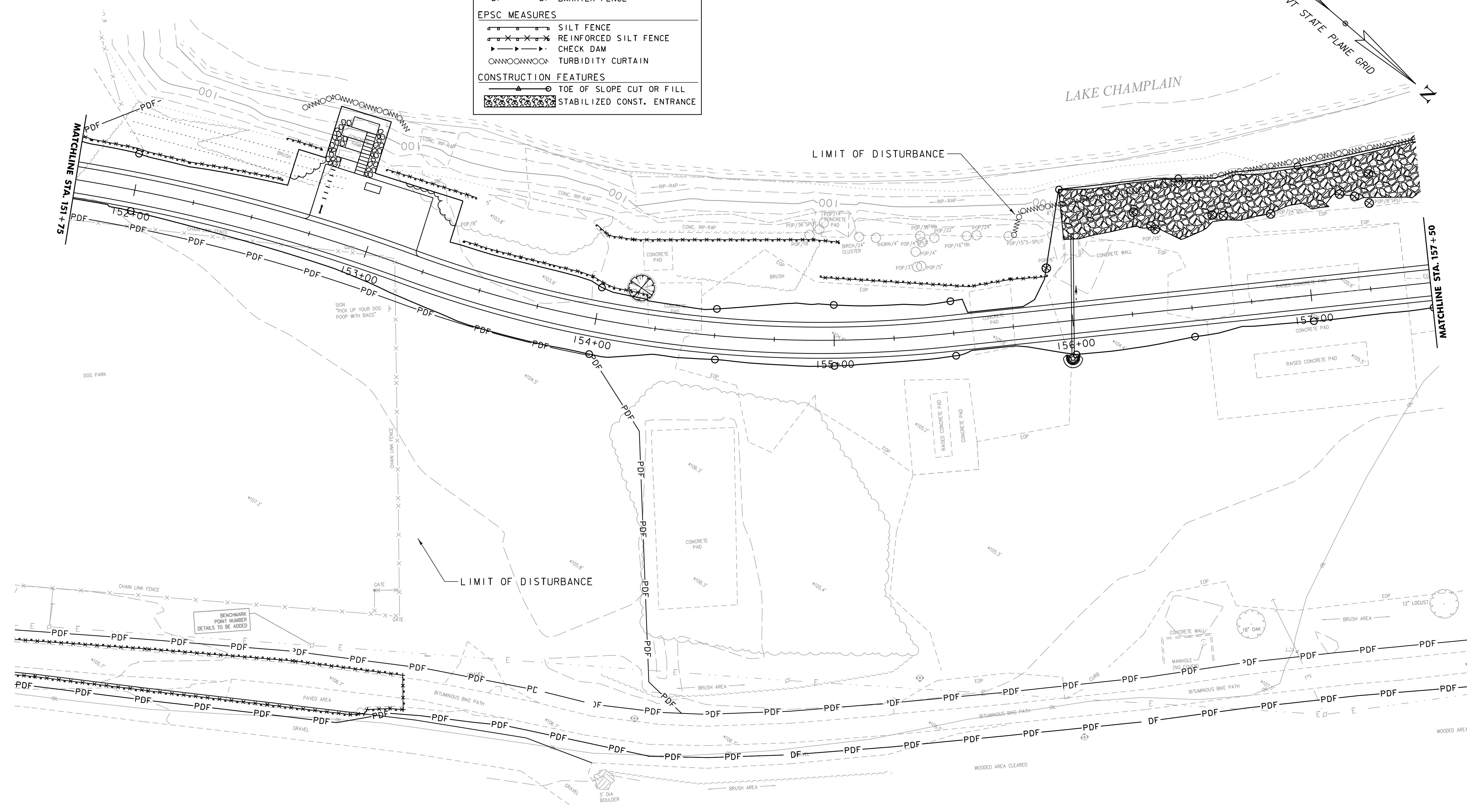
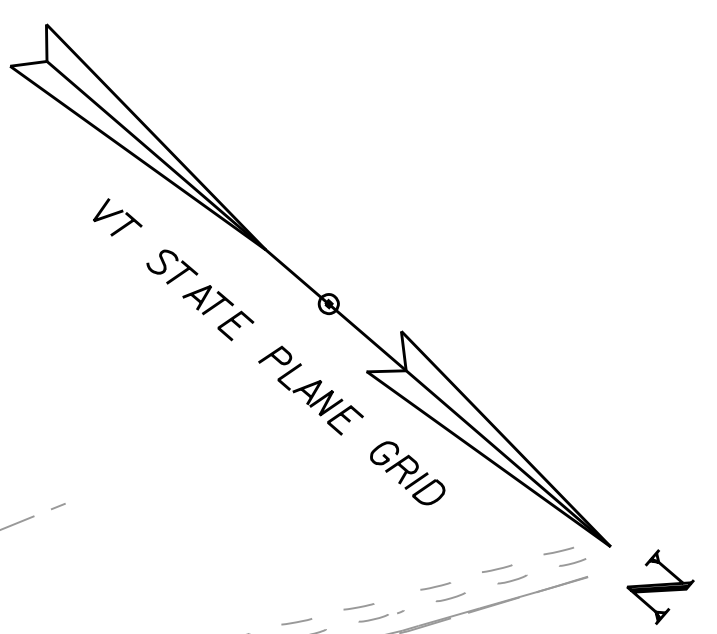








EPSC LAYOUT PLAN SYMBOLLOGY LEGEND	
PROJECT BOUNDARY FENCE	
PDF	PROJECT DEMARCATION FENCE
BF	BARRIER FENCE
EPSC MEASURES	
	SILT FENCE
	REINFORCED SILT FENCE
	CHECK DAM
	TURBIDITY CURTAIN
CONSTRUCTION FEATURES	
	TOE OF SLOPE CUT OR FILL
	STABILIZED CONST. ENTRANCE



SCALE 1" = 20'-0"

20 0 20

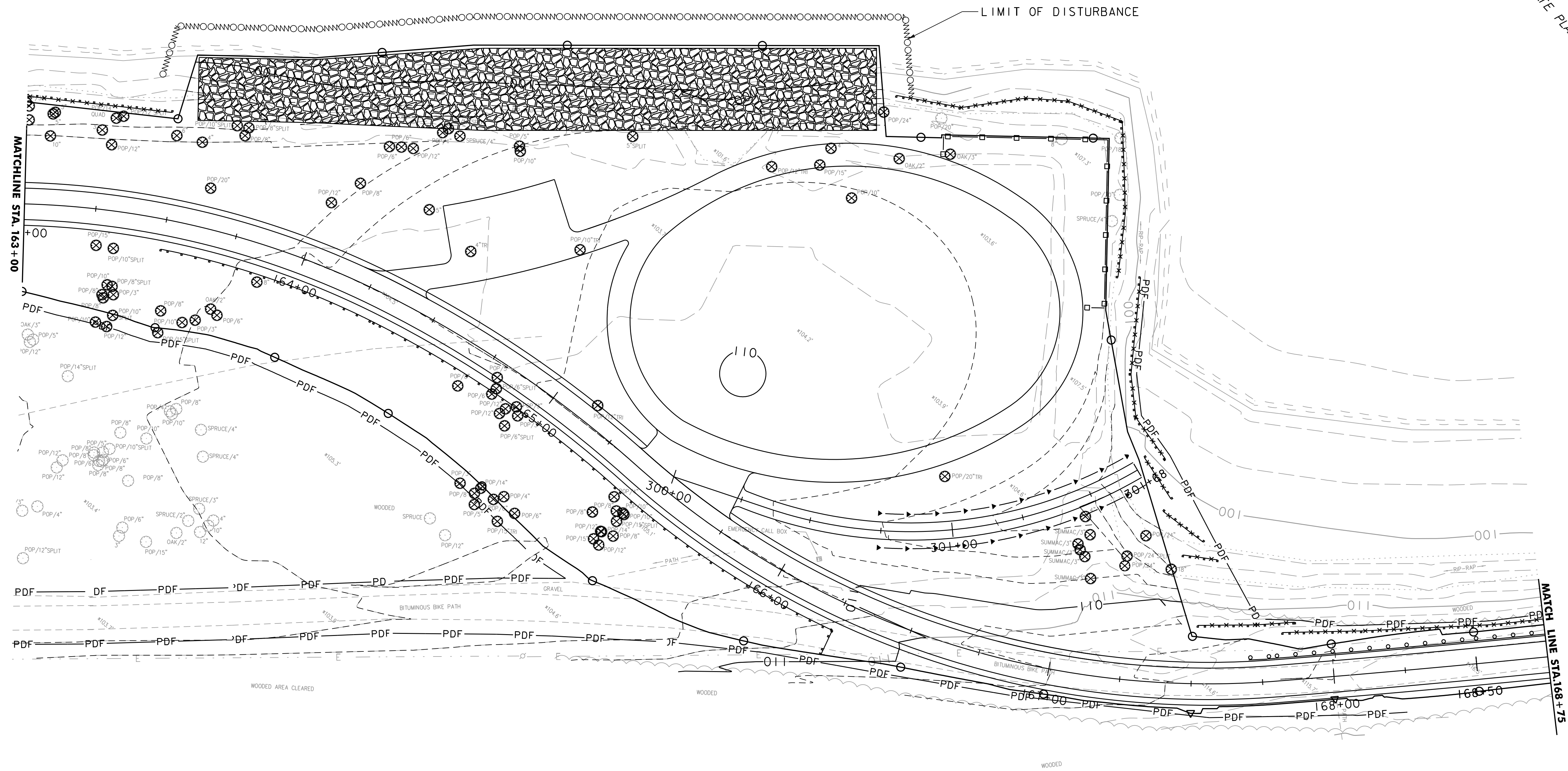
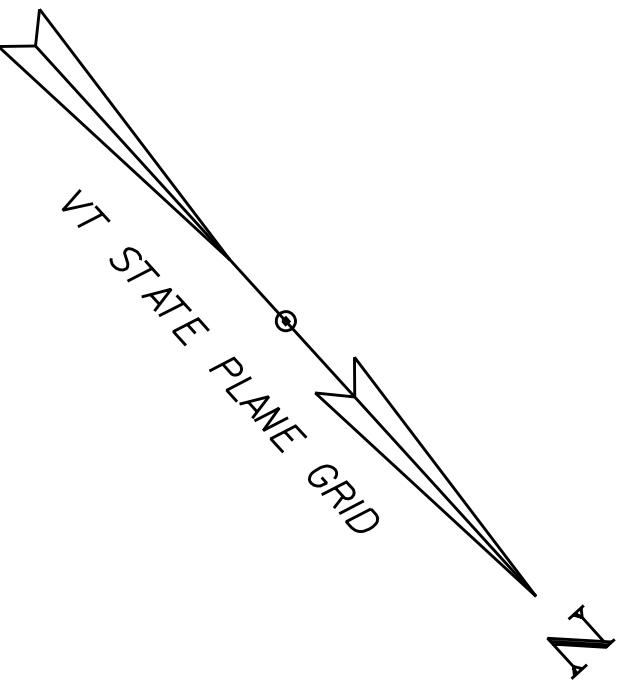


PROJECT NAME: BURLINGTON BIKE PATH	
PROJECT NUMBER: 57634.00	
FILE NAME: z57634bdr_ero.dgn	PLOT DATE: 3/23/2016
PROJECT LEADER: M.A. COLGAN	DRAWN BY: G.A. GOMEZ
DESIGNED BY: C. HAKEY	CHECKED BY: M.A. COLGAN
EPSC PLAN (5 OF 11)	SHEET 102 OF 119









EPSC LAYOUT PLAN SYMBOLGY LEGEND	
PROJECT BOUNDARY FENCE	
PDF	PDF PROJECT DEMARCATION FENCE
BF	BF BARRIER FENCE
EPSC MEASURES	
	SILT FENCE
	REINFORCED SILT FENCE
	CHECK DAM
	TURBIDITY CURTAIN
CONSTRUCTION FEATURES	
	TOE OF SLOPE CUT OR FILL
	STABILIZED CONST. ENTRANCE

SCALE 1" = 20'-0"  
20 0 20

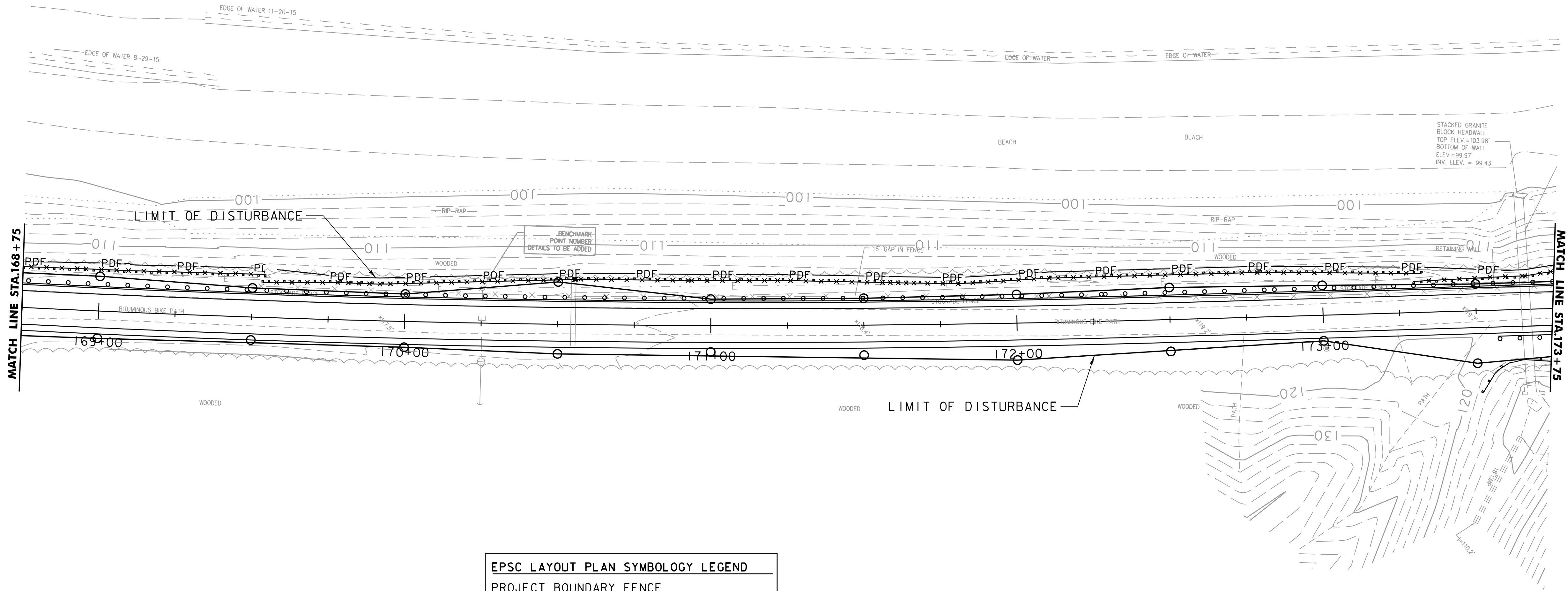
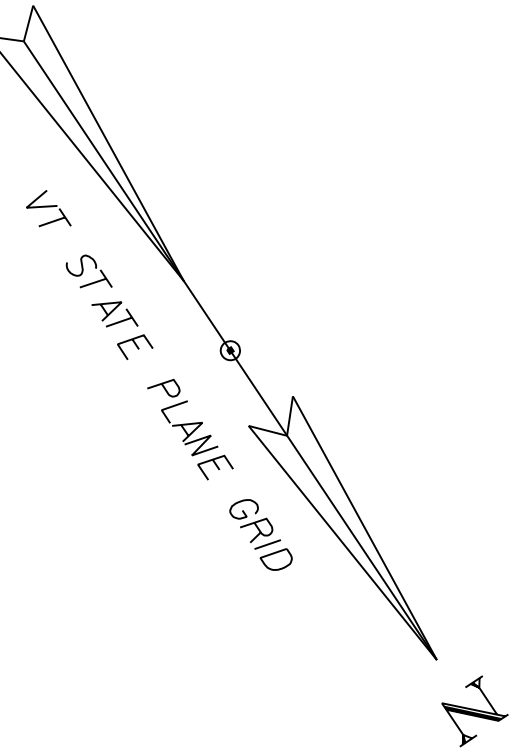


PROJECT NAME: BURLINGTON BIKE PATH  
PROJECT NUMBER: 57634.00

FILE NAME: z57634bdr_ero.dgn  
PROJECT LEADER: M.A. COLGAN  
DESIGNED BY: C. HAKEY  
EPSC PLAN (7 OF 11)

PLOT DATE: 3/23/2016  
DRAWN BY: G.A. GOMEZ  
CHECKED BY: M.A. COLGAN  
SHEET 104 OF 119





EPSC LAYOUT PLAN SYMBOLOGY LEGEND	
PROJECT BOUNDARY FENCE	
PDF — PDF	PROJECT DEMARCATION FENCE
BF — BF	BARRIER FENCE
EPSC MEASURES	
— X — X — X	SILT FENCE
— X — X — X	REINFORCED SILT FENCE
— X — X — X	CHECK DAM
ONNOONNOON	TURBIDITY CURTAIN
CONSTRUCTION FEATURES	
— X — X — X	TOE OF SLOPE CUT OR FILL
— X — X — X	STABILIZED CONST. ENTRANCE

SCALE 1" = 20' - 0"

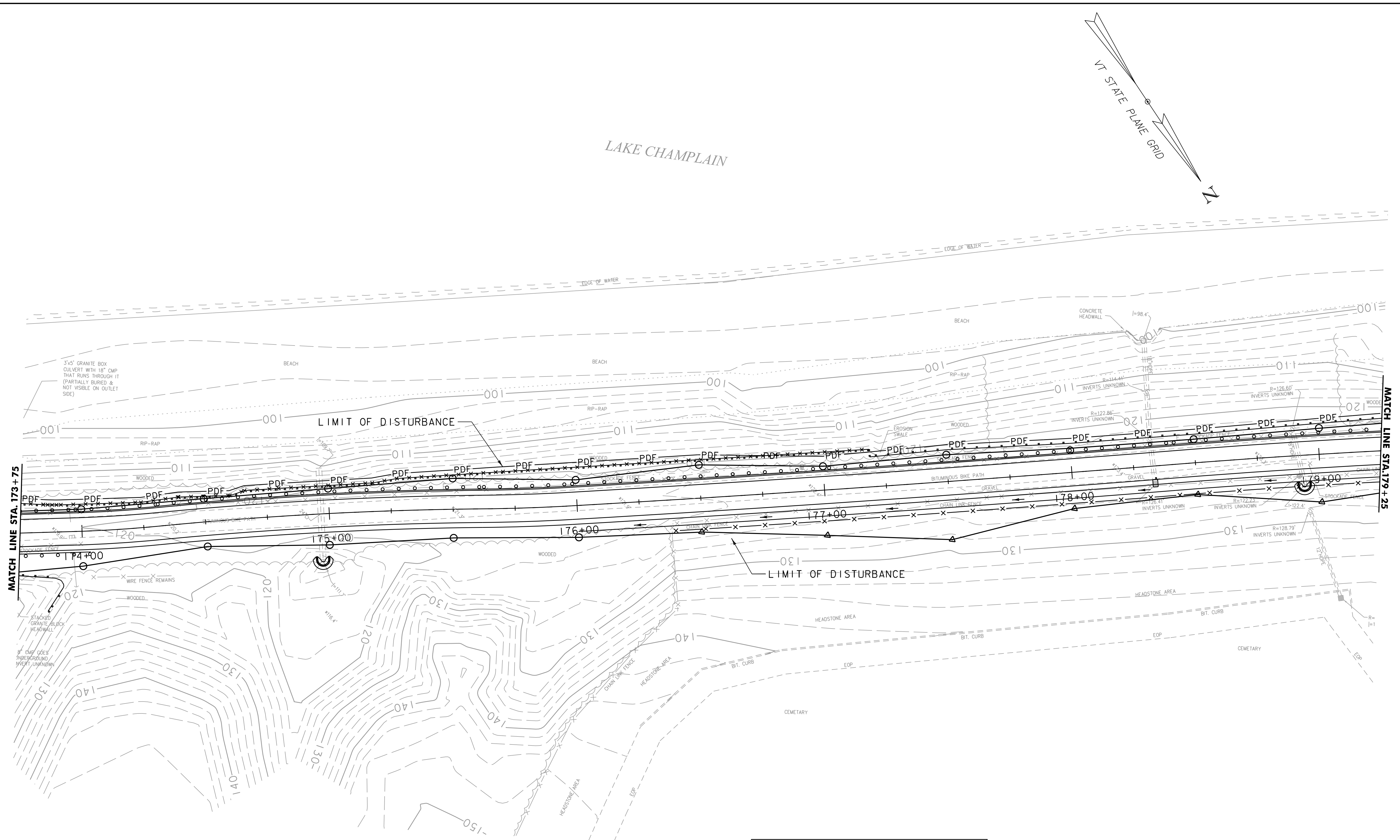


PROJECT NAME: BURLINGTON BIKE PATH  
PROJECT NUMBER: 57634.00

FILE NAME: z57634bdr_ero.dgn  
PROJECT LEADER: M.A. COLGAN  
DESIGNED BY: D.M. PECK  
EPSC PLANS (8 OF 11)

PLOT DATE: 3/23/2016  
DRAWN BY: M.F. SUFFEL  
CHECKED BY: E.B. PARIZO  
SHEET 105 OF 119





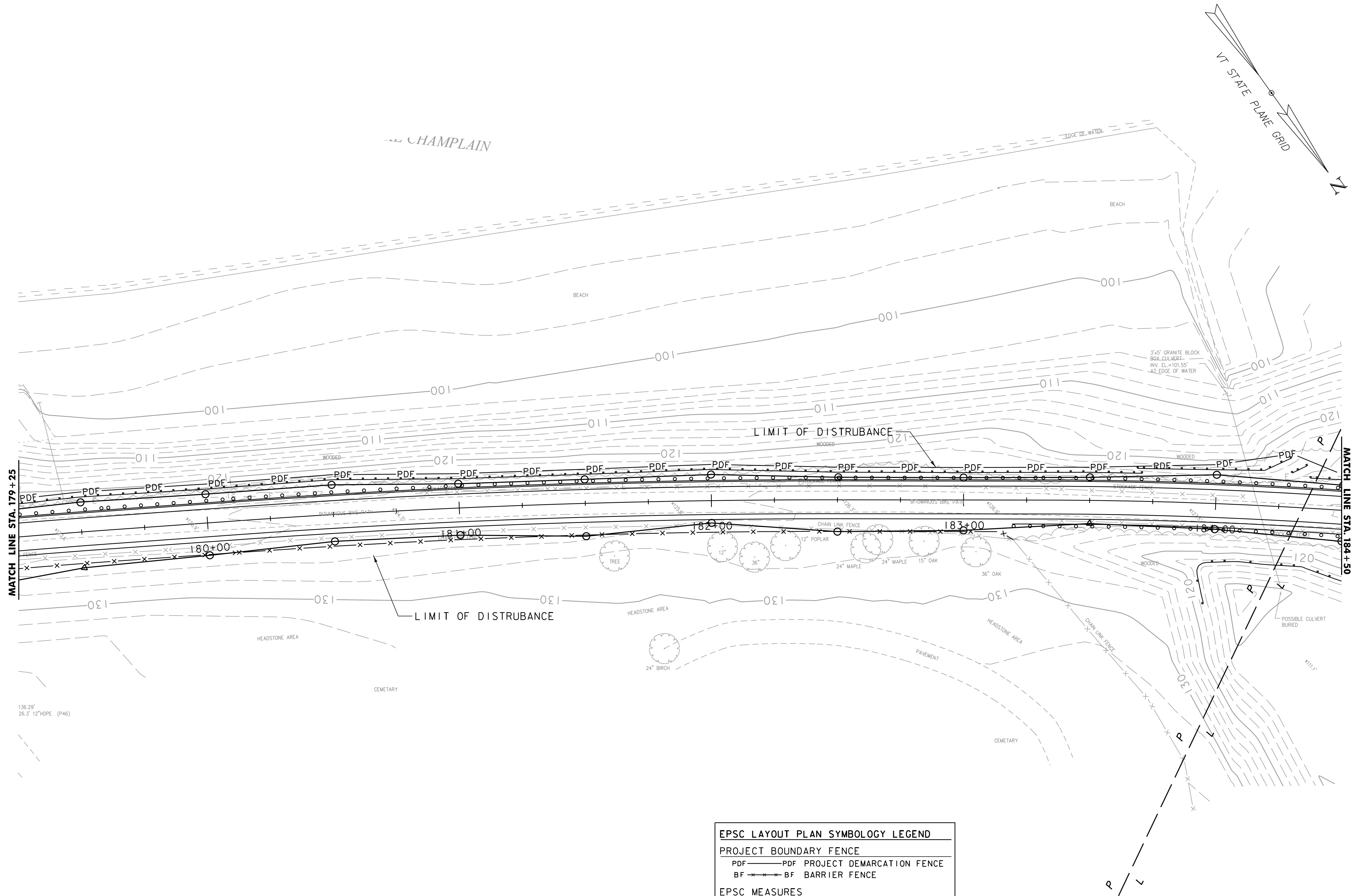
EPSC LAYOUT PLAN SYMBOLOGY LEGEND	
PROJECT BOUNDARY FENCE	
PDF	PROJECT DEMARCATION FENCE
BF	BARRIER FENCE
EPSC MEASURES	
[Symbol]	SILT FENCE
[Symbol]	REINFORCED SILT FENCE
[Symbol]	CHECK DAM
[Symbol]	TURBIDITY CURTAIN
CONSTRUCTION FEATURES	
[Symbol]	TOE OF SLOPE CUT OR FILL
[Symbol]	STABILIZED CONST. ENTRANCE

SCALE 1" = 20'-0"  
20 0 20



PROJECT NAME: BURLINGTON BIKE PATH	
PROJECT NUMBER: 57634.00	
FILE NAME: z57634bdr_ero.dgn	PLOT DATE: 3/23/2016
PROJECT LEADER: M.A. COLGAN	DRAWN BY: M.F. SUFFEL
DESIGNED BY: D.M. PECK	CHECKED BY: E.B. PARIZO
EPSC PLANS (9 OF 11)	SHEET 106 OF 119





136.29'  
26.3' 12" HOPE (P46)

SCALE 1" = 20'-0"  
20 0 20

EPSC LAYOUT PLAN SYMBOLOGY LEGEND	
PROJECT BOUNDARY FENCE	
PDF	PDF PROJECT DEMARCATION FENCE
BF	BF BARRIER FENCE
EPSC MEASURES	
	SILT FENCE
	REINFORCED SILT FENCE
	CHECK DAM
	TURBIDITY CURTAIN
CONSTRUCTION FEATURES	
	TOE OF SLOPE CUT OR FILL
	STABILIZED CONST. ENTRANCE

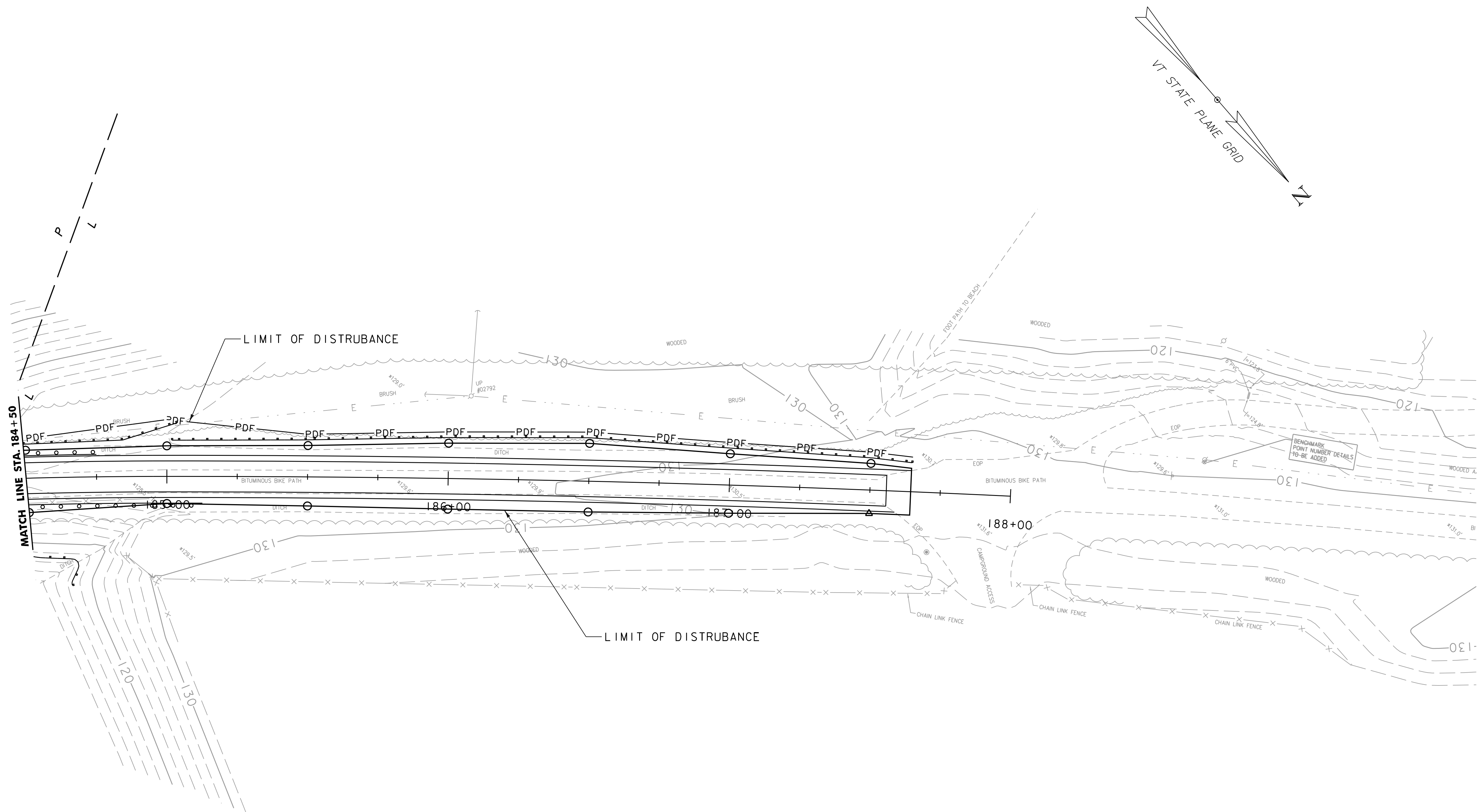


PROJECT NAME: BURLINGTON BIKE PATH  
PROJECT NUMBER: 57634.00

FILE NAME: z57634bdr_ero.dgn  
PROJECT LEADER: M.A.COLGAN  
DESIGNED BY: D.M.PECK  
EPSC PLANS (10 OF 11)

PLOT DATE: 3/23/2016  
DRAWN BY: M.F.SUFFEL  
CHECKED BY: E.B. PARIZO  
SHEET 107 OF 119





SCALE 1" = 20'-0"  
20 0 20

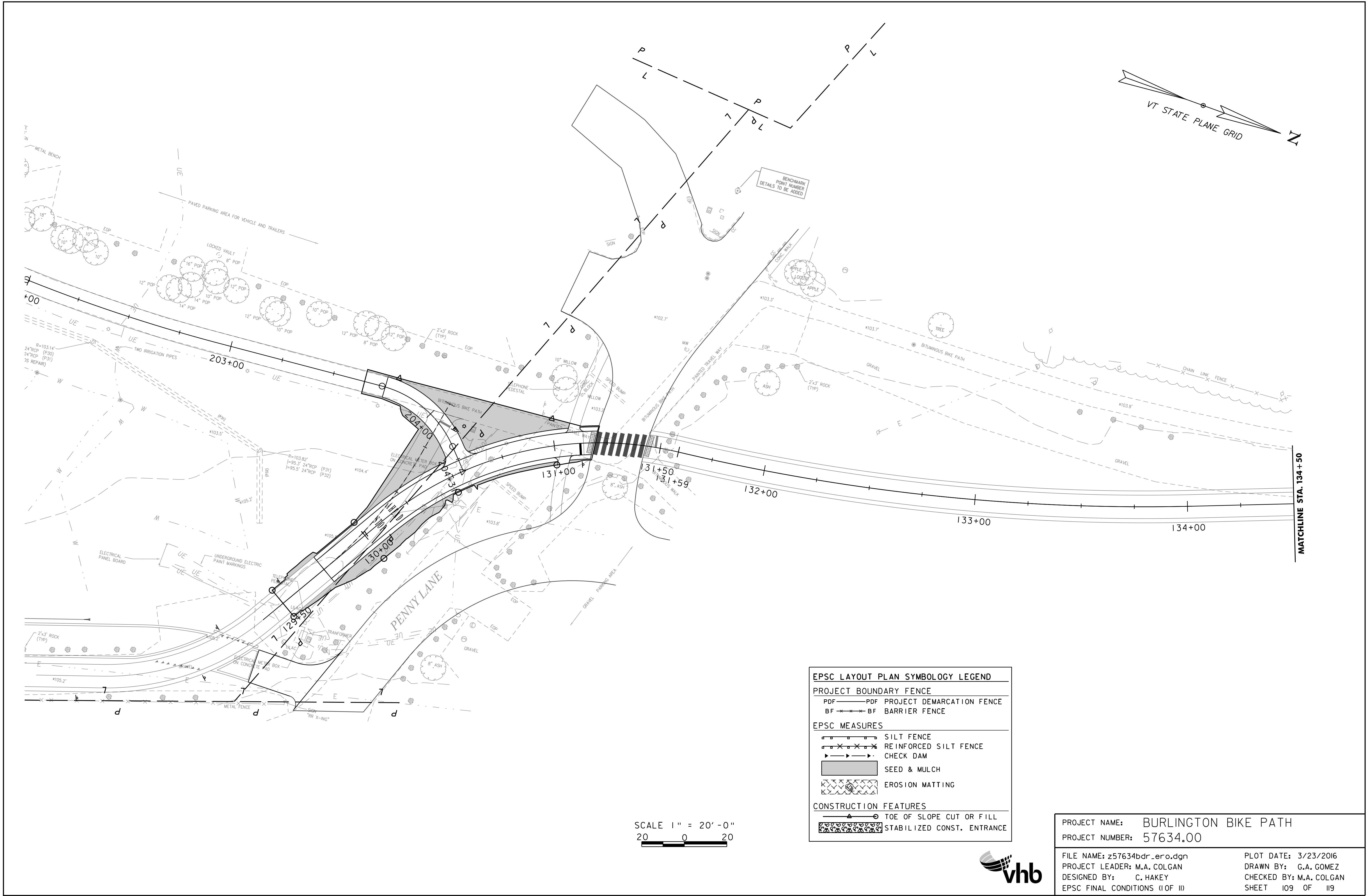
EPSC LAYOUT PLAN SYMBOLOGY LEGEND	
PROJECT BOUNDARY FENCE	
PDF	PROJECT DEMARCATION FENCE
BF	BARRIER FENCE
EPSC MEASURES	
	SILT FENCE
	REINFORCED SILT FENCE
	CHECK DAM
	TURBIDITY CURTAIN
CONSTRUCTION FEATURES	
	TOE OF SLOPE CUT OR FILL
	STABILIZED CONST. ENTRANCE



PROJECT NAME: BURLINGTON BIKE PATH  
PROJECT NUMBER: 57634.00

FILE NAME: z57634bdr_ero.dgn	PLOT DATE: 3/23/2016
PROJECT LEADER: M.A.COLGAN	DRAWN BY: M.F.SUFFEL
DESIGNED BY: D.M.PECK	CHECKED BY: E.B. PARIZO
EPSC PLANS (11 OF 11)	SHEET 108 OF 119



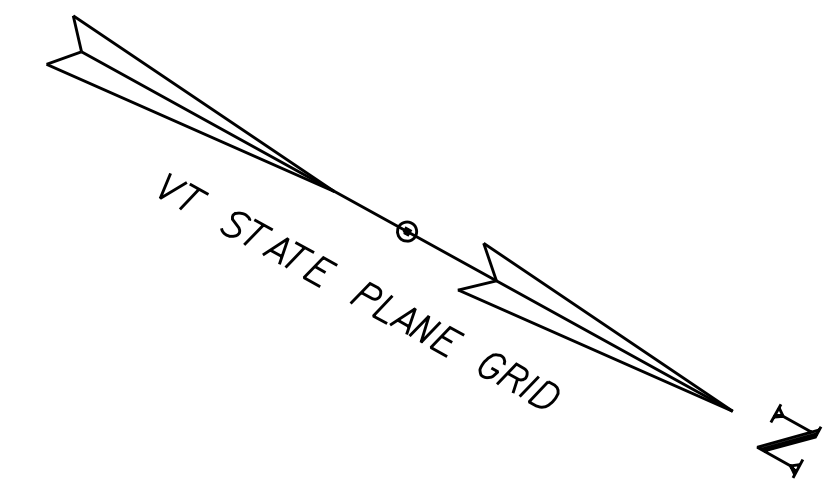


EPSC LAYOUT PLAN SYMBOLOGY LEGEND	
PROJECT BOUNDARY FENCE	
PDF	PROJECT DEMARCATION FENCE
BF	BARRIER FENCE
EPSC MEASURES	
[Symbol]	SILT FENCE
[Symbol]	REINFORCED SILT FENCE
[Symbol]	CHECK DAM
[Symbol]	SEED & MULCH
[Symbol]	EROSION MATTING
CONSTRUCTION FEATURES	
[Symbol]	TOE OF SLOPE CUT OR FILL
[Symbol]	STABILIZED CONST. ENTRANCE

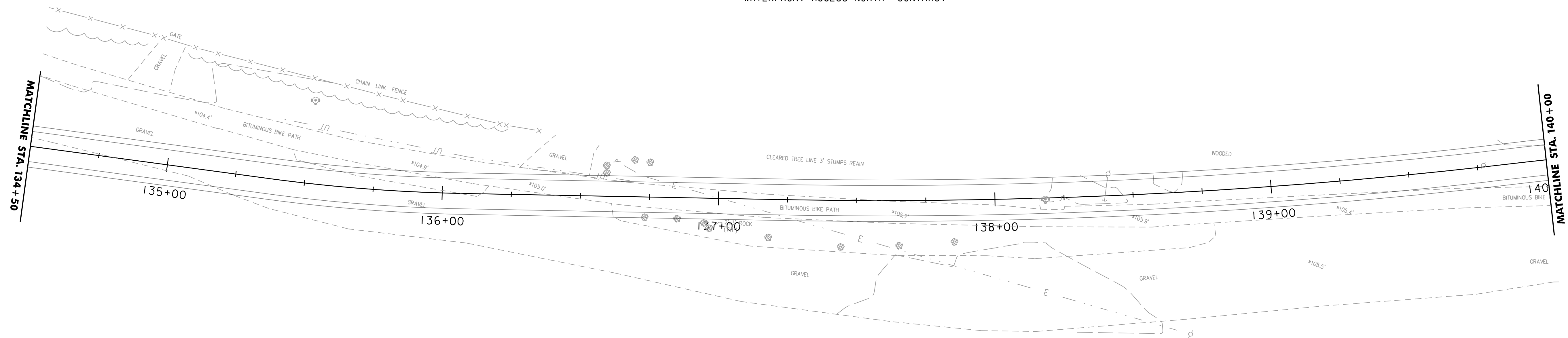
PROJECT NAME: BURLINGTON BIKE PATH	
PROJECT NUMBER: 57634.00	
FILE NAME: z57634bdr_ero.dgn	PLOT DATE: 3/23/2016
PROJECT LEADER: M.A. COLGAN	DRAWN BY: G.A. GOMEZ
DESIGNED BY: C. HAKEY	CHECKED BY: M.A. COLGAN
EPSC FINAL CONDITIONS (1 OF 11)	SHEET 109 OF 119







BIKE PATH FROM STA. 131+13  
TO 140+96 TO BE DESIGNED AND  
CONSTRUCTED UNDER THE  
"WATERFRONT ACCESS NORTH" CONTRACT



SCALE 1" = 20'-0"  
20 0 20

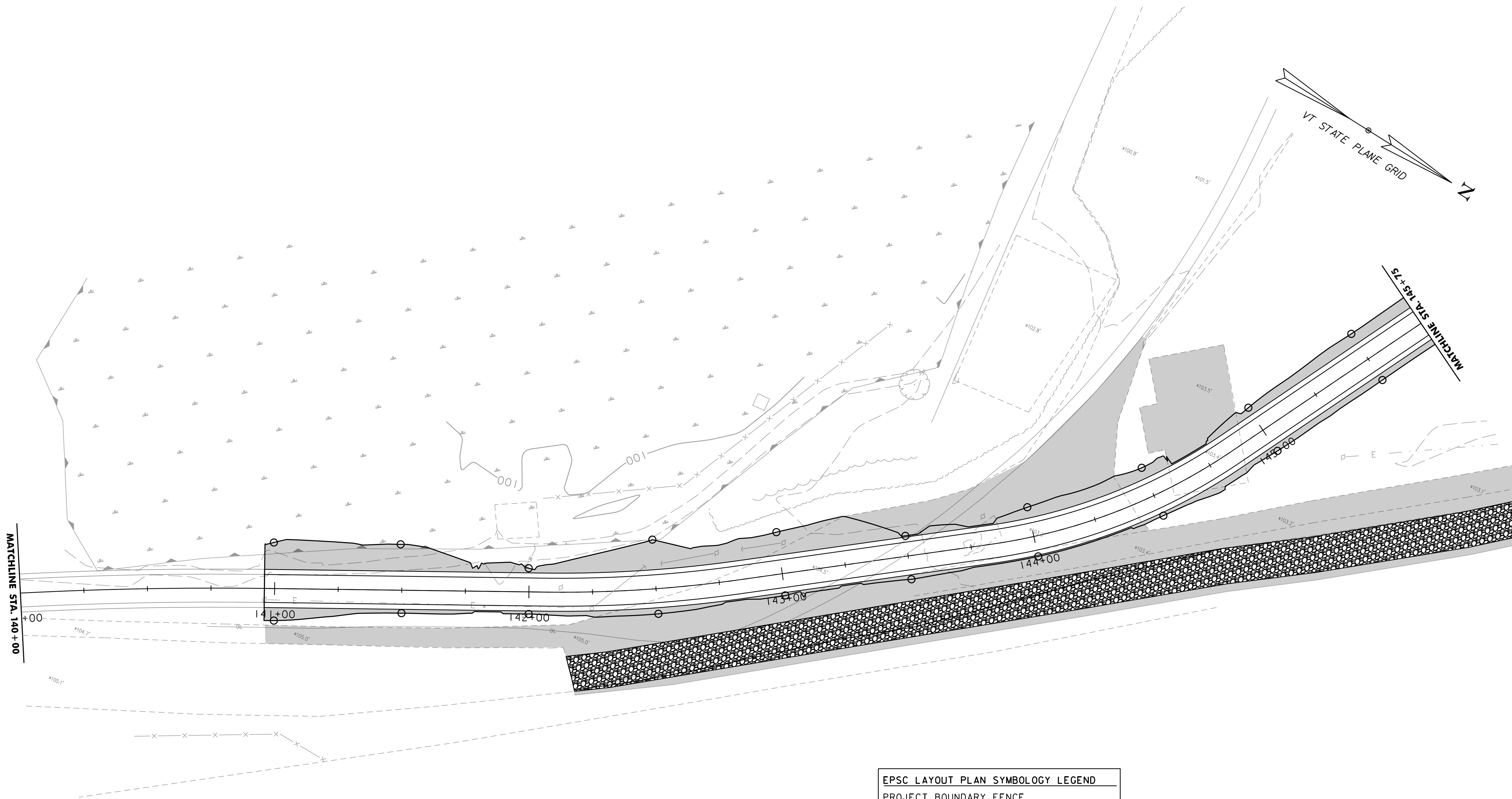
EPSC LAYOUT PLAN SYMBOLOGY LEGEND	
PROJECT BOUNDARY FENCE	
PDF	PDF PROJECT DEMARCATION FENCE
BF	BF BARRIER FENCE
EPSC MEASURES	
	SILT FENCE
	REINFORCED SILT FENCE
	CHECK DAM
	SEED & MULCH
	EROSION MATTING
CONSTRUCTION FEATURES	
	TOE OF SLOPE CUT OR FILL
	STABILIZED CONST. ENTRANCE



PROJECT NAME: BURLINGTON BIKE PATH  
PROJECT NUMBER: 57634.00

FILE NAME: z57634bdr_ero.dgn	PLOT DATE: 3/23/2016
PROJECT LEADER: M.A. COLGAN	DRAWN BY: G.A. GOMEZ
DESIGNED BY: C. HAKEY	CHECKED BY: M.A. COLGAN
EPSC FINAL CONDITIONS (2 OF 11)	SHEET 110 OF 119





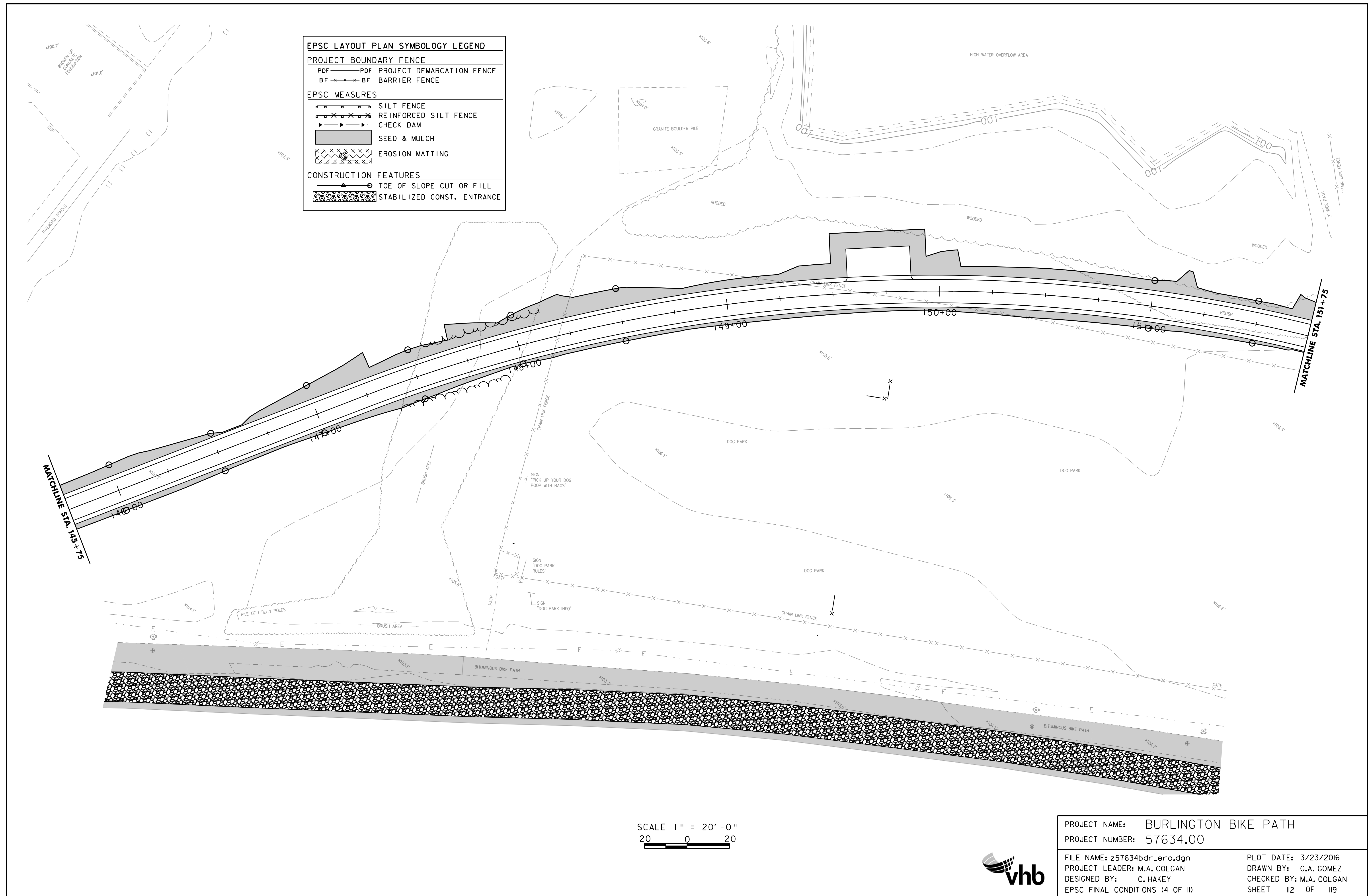
EPSC LAYOUT PLAN SYMBOLOGY LEGEND		
PROJECT BOUNDARY FENCE		
PDF	PDF	PROJECT DEMARCATION FENCE
BF	BF	BARRIER FENCE
EPSC MEASURES		
		SILT FENCE
		REINFORCED SILT FENCE
		CHECK DAM
		SEED & MULCH
		EROSION MATTING
CONSTRUCTION FEATURES		
		TOE OF SLOPE CUT OR FILL
		STABILIZED CONST. ENTRANCE

PROJECT NAME: BURLINGTON BIKE PATH  
PROJECT NUMBER: 57634.00

FILE NAME: z57634bdr_ero.dgn	PLOT DATE: 3/23/2016
PROJECT LEADER: M.A. COLGAN	DRAWN BY: G.A. GOMEZ
DESIGNED BY: C. HAKEY	CHECKED BY: M.A. COLGAN
EPSC FINAL CONDITIONS (3 OF 11)	SHEET III OF 119



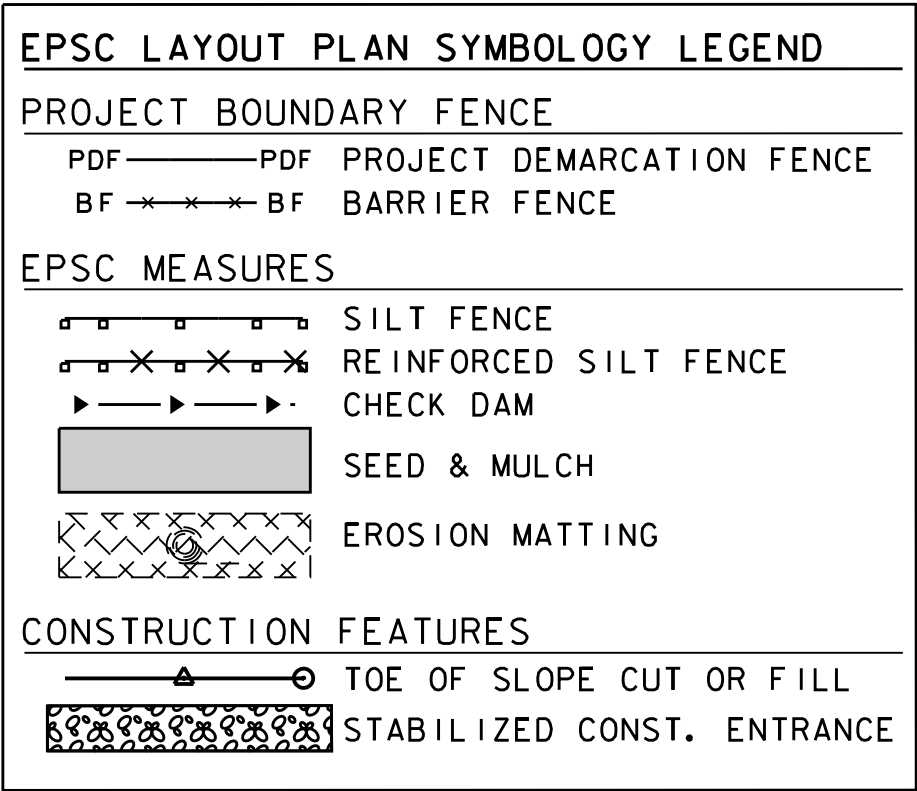






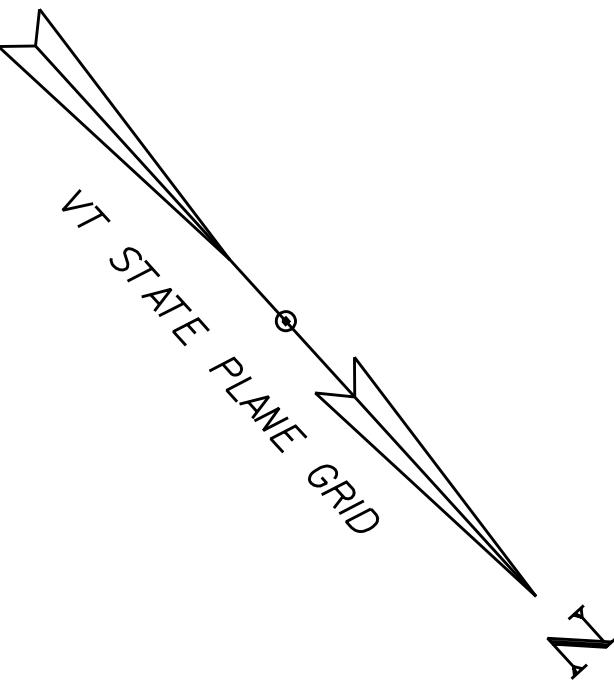




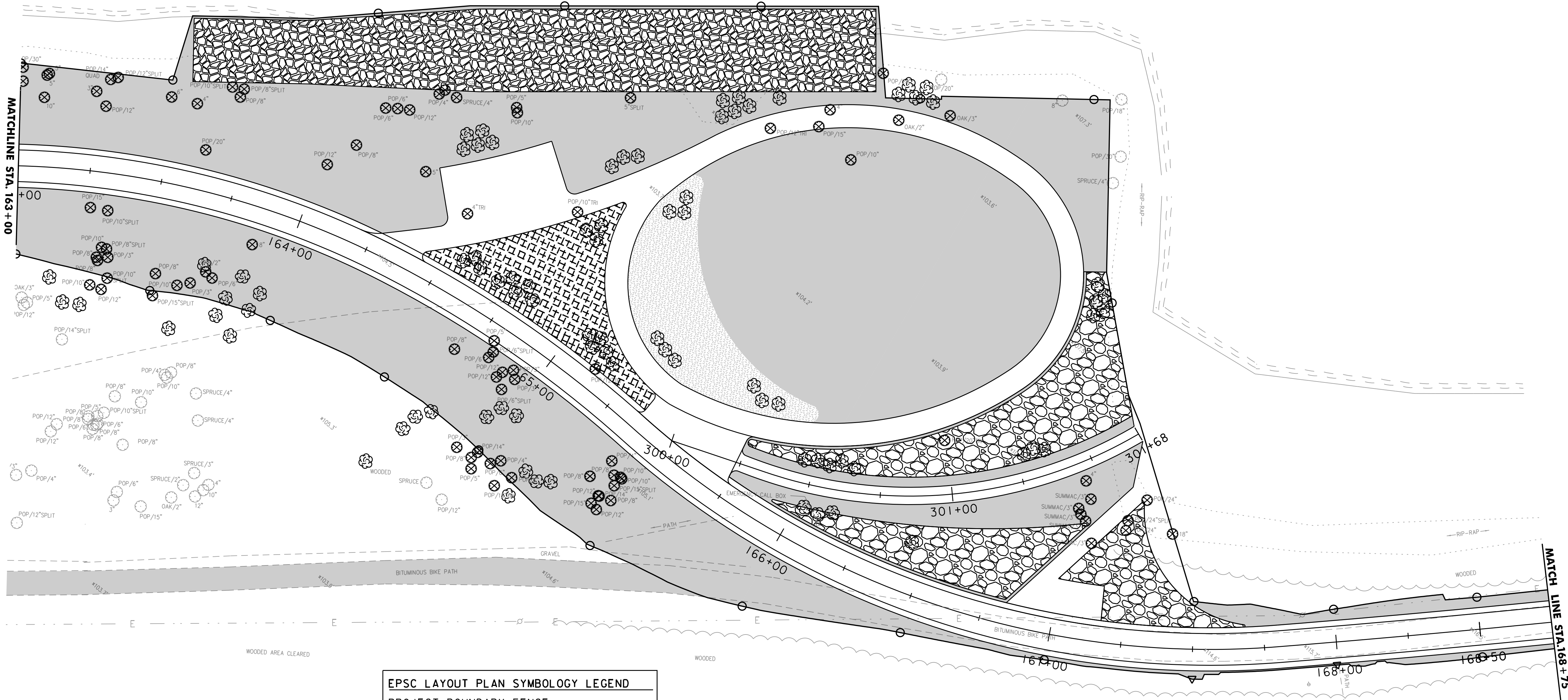


FILE NAME: z57634bdr_ero.dgn	PLOT DATE: 3/23/2016
PROJECT LEADER: M.A. COLGAN	DRAWN BY: G.A. GOMEZ
DESIGNED BY: C. HAKLEY	CHECKED BY: M.A. COLGAN
EPSC FINAL CONDITIONS (6 OF 11)	SHEET 114 OF 119





LAKE CHAMPLAIN



EPSC LAYOUT PLAN SYMBOLOGY LEGEND	
PROJECT BOUNDARY FENCE	
PDF	PDF PROJECT DEMARCATION FENCE
BF	BF BARRIER FENCE
EPSC MEASURES	
	SILT FENCE
	REINFORCED SILT FENCE
	CHECK DAM
	SEED & MULCH
	EROSION MATTING
CONSTRUCTION FEATURES	
	TOE OF SLOPE CUT OR FILL
	STABILIZED CONST. ENTRANCE
	ERNST SEED MIX & MULCH
	MULCH

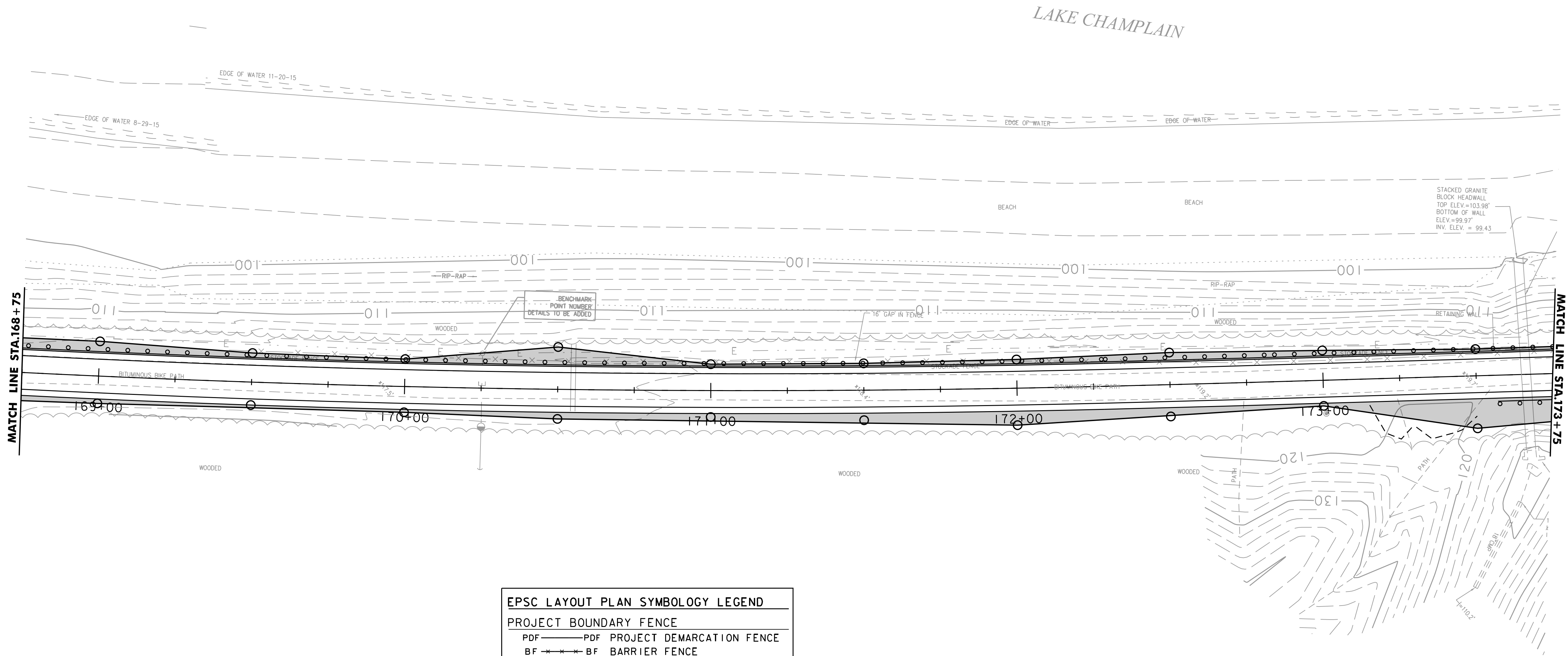
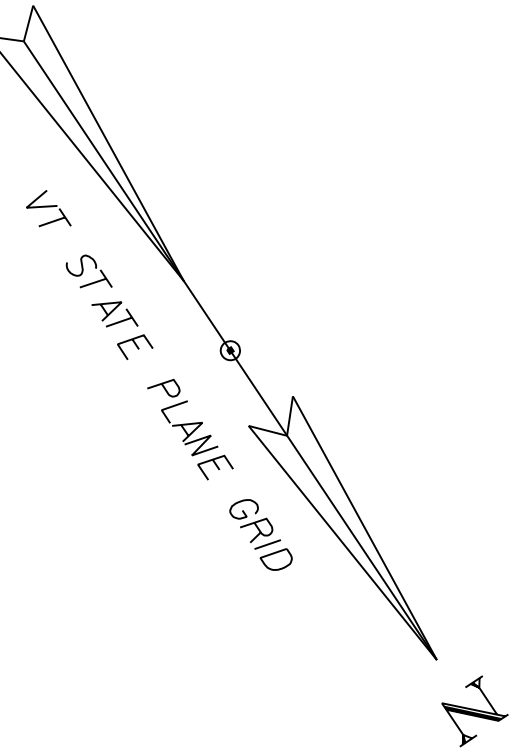
SCALE 1" = 20'-0"  
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PROJECT NAME: BURLINGTON BIKE PATH  
PROJECT NUMBER: 57634.00

FILE NAME: z57634bdr_ero.dgn	PLOT DATE: 3/23/2016
PROJECT LEADER: M.A. COLGAN	DRAWN BY: G.A. GOMEZ
DESIGNED BY: C. HAKEY	CHECKED BY: M.A. COLGAN
EPSC FINAL CONDITIONS (7 OF 11)	SHEET 115 OF 119





EPSC LAYOUT PLAN SYMBOLOGY LEGEND	
PROJECT BOUNDARY FENCE	
PDF	PROJECT DEMARCATION FENCE
BF	BARRIER FENCE
EPSC MEASURES	
	SILT FENCE
	REINFORCED SILT FENCE
	CHECK DAM
	SEED & MULCH
	EROSION MATTING
CONSTRUCTION FEATURES	
	TOE OF SLOPE CUT OR FILL
	STABILIZED CONST. ENTRANCE

SCALE 1" = 20'-0"  
20 0 20

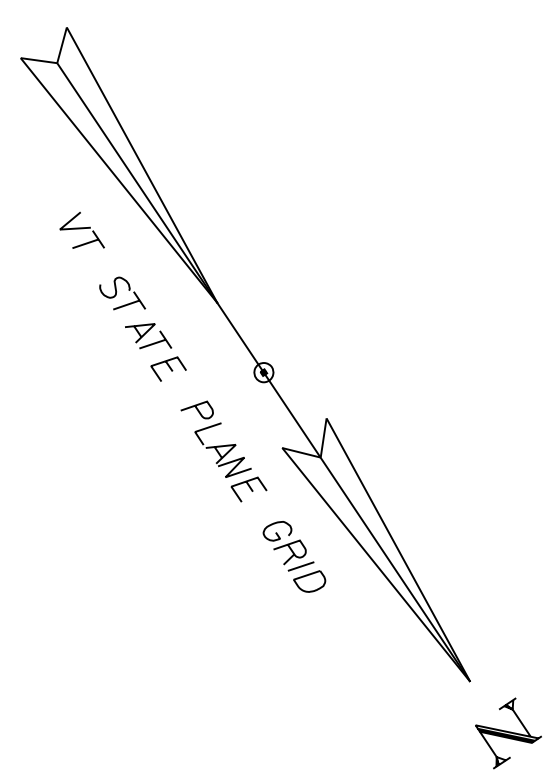
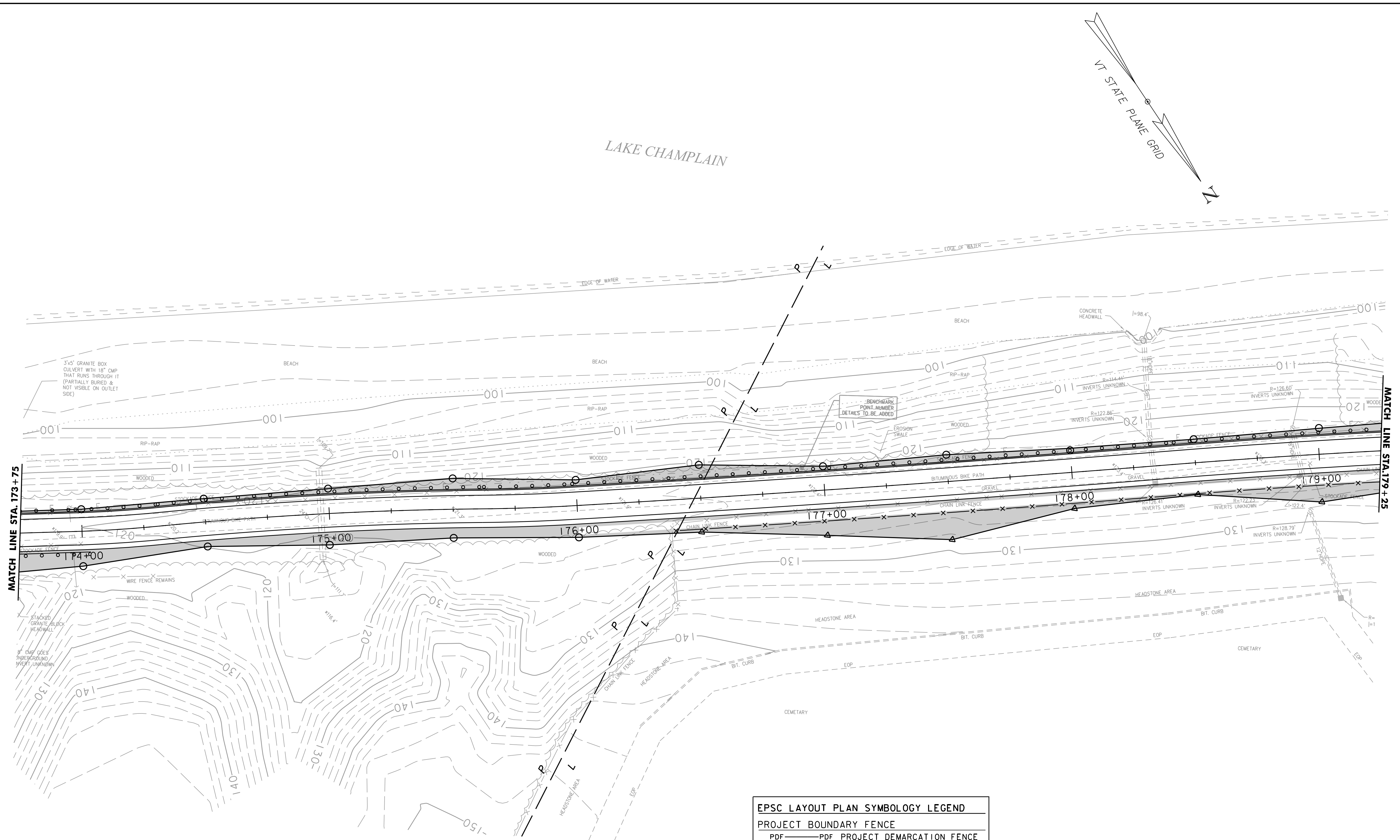


PROJECT NAME: BURLINGTON BIKE PATH  
PROJECT NUMBER: 57634.00

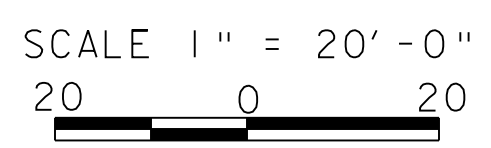
FILE NAME: z57634bdr_ero.dgn  
PROJECT LEADER: M.A. COLGAN  
DESIGNED BY: D.M. PECK  
EPSC FINAL CONDITIONS (8 OF 11)

PLOT DATE: 3/23/2016  
DRAWN BY: M.F. SUFFEL  
CHECKED BY: E.B. PARIZO  
SHEET 116 OF 119



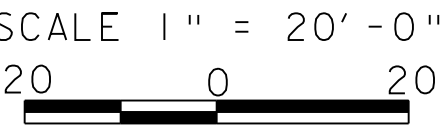
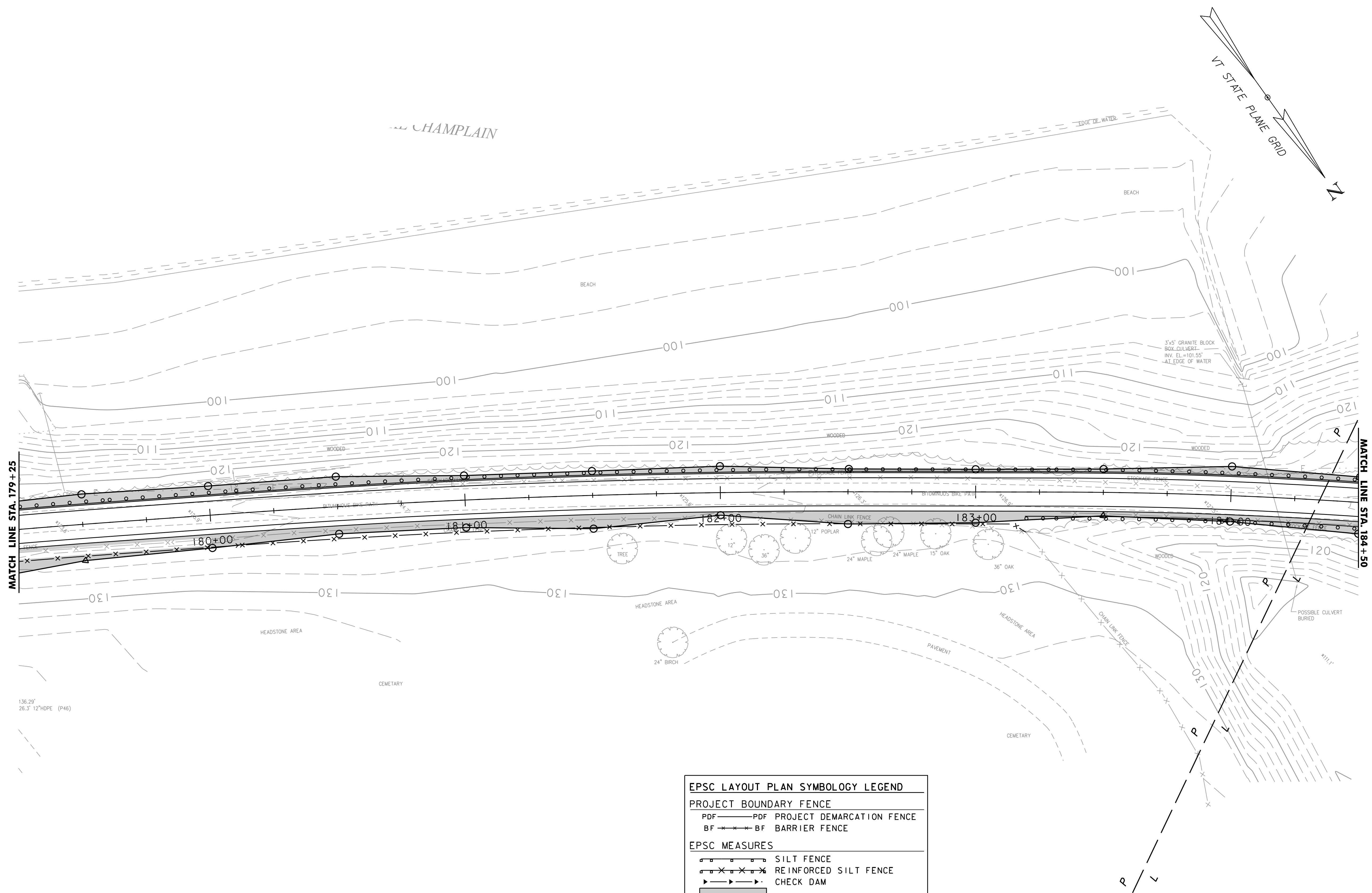


EPSC LAYOUT PLAN SYMBOLOGY LEGEND	
PROJECT BOUNDARY FENCE	
PDF	PROJECT DEMARCATION FENCE
BF	BARRIER FENCE
EPSC MEASURES	
[Symbol]	SILT FENCE
[Symbol]	REINFORCED SILT FENCE
[Symbol]	CHECK DAM
[Symbol]	SEED & MULCH
[Symbol]	EROSION MATTING
CONSTRUCTION FEATURES	
[Symbol]	TOE OF SLOPE CUT OR FILL
[Symbol]	STABILIZED CONST. ENTRANCE



PROJECT NAME: BURLINGTON BIKE PATH	
PROJECT NUMBER: 57634.00	
FILE NAME: z57634bdr_ero.dgn	PLOT DATE: 3/23/2016
PROJECT LEADER: M.A. COLGAN	DRAWN BY: M.F. SUFFEL
DESIGNED BY: D.M. PECK	CHECKED BY: E.B. PARIZO
EPSC FINAL CONDITIONS (9 OF 11)	SHEET 117 OF 119





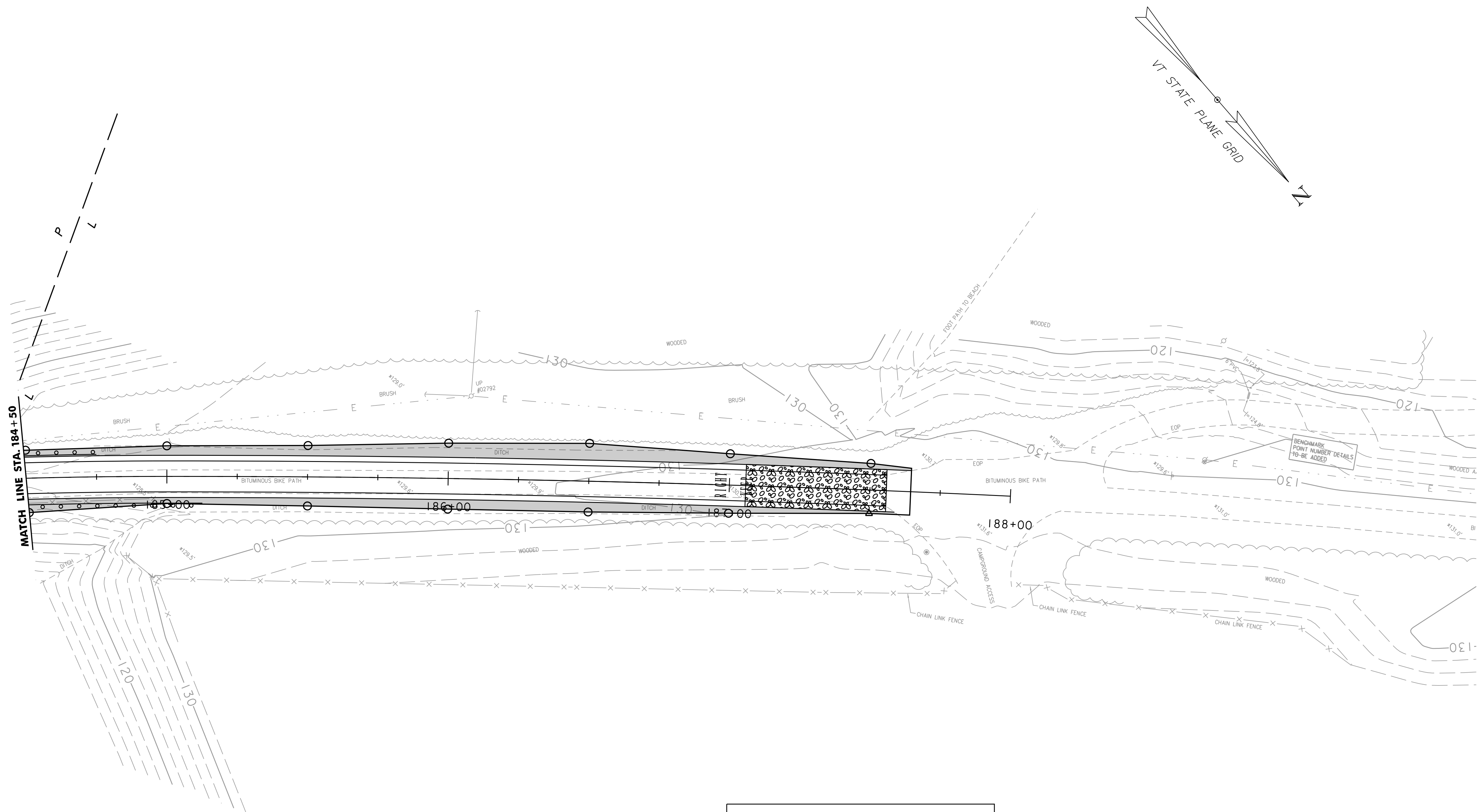
EPSC LAYOUT PLAN SYMBOLOGY LEGEND	
PROJECT BOUNDARY FENCE	
PDF	PDF PROJECT DEMARCATION FENCE
BF	BF BARRIER FENCE
EPSC MEASURES	
	SILT FENCE
	REINFORCED SILT FENCE
	CHECK DAM
	SEED & MULCH
	EROSION MATTING
CONSTRUCTION FEATURES	
	TOE OF SLOPE CUT OR FILL
	STABILIZED CONST. ENTRANCE



PROJECT NAME: BURLINGTON BIKE PATH  
PROJECT NUMBER: 57634.00

FILE NAME: z57634bdr_ero.dgn	PLOT DATE: 3/23/2016
PROJECT LEADER: M.A.COLGAN	DRAWN BY: M.F.SUFFEL
DESIGNED BY: D.M.PECK	CHECKED BY: E.B. PARIZO
EPSC FINAL CONDITIONS (10 OF 11)	SHEET 118 OF 119





SCALE 1" = 20'-0"  
20 0 20

EPSC LAYOUT PLAN SYMBOLOGY LEGEND	
PROJECT BOUNDARY FENCE	
PDF	PROJECT DEMARCATION FENCE
BF	BARRIER FENCE
EPSC MEASURES	
	SILT FENCE
	REINFORCED SILT FENCE
	CHECK DAM
	SEED & MULCH
	EROSION MATTING
CONSTRUCTION FEATURES	
	TOE OF SLOPE CUT OR FILL
	STABILIZED CONST. ENTRANCE



PROJECT NAME: BURLINGTON BIKE PATH	
PROJECT NUMBER: 57634.00	
FILE NAME: z57634bdr_ero.dgn	PLOT DATE: 3/23/2016
PROJECT LEADER: M.A.COLGAN	DRAWN BY: M.F.SUFFEL
DESIGNED BY: D.M.PECK	CHECKED BY: E.B. PARIZO
EPSC FINAL CONDITIONS (11 OF 11)	SHEET 119 OF 119



EXCAVATION OF SURFACES & PAVEMENTS  
STA. 130+02, 7.5' LT TO 131+09, 7.5' LT

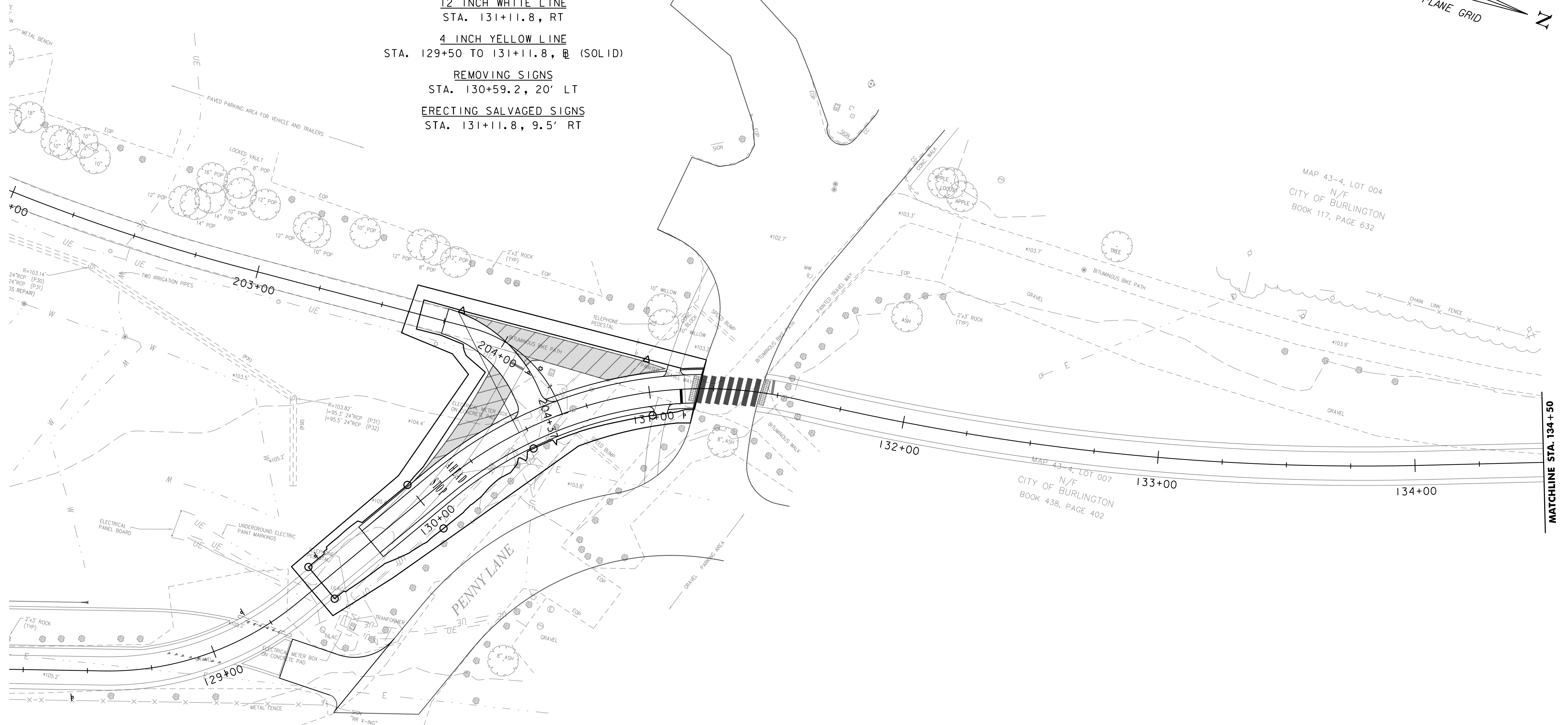
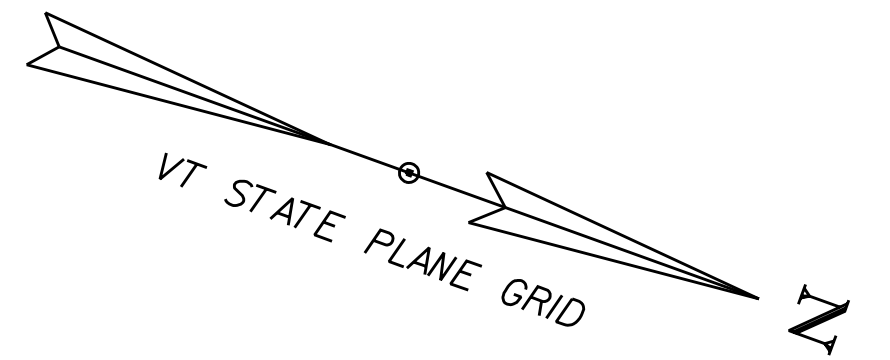
PAINT PAVEMENT MARKINGS ("STOP AHEAD")  
STA. 130+07 TO 130+20, R

12 INCH WHITE LINE  
STA. 131+11.8, RT

4 INCH YELLOW LINE  
STA. 129+50 TO 131+11.8, R (SOLID)

REMOVING SIGNS  
STA. 130+59.2, 20' LT

ERECTING SALVAGED SIGNS  
STA. 131+11.8, 9.5' RT



 = REMOVE EXISTING CONCRETE/BITUMINOUS SURFACE

SCALE 1" = 20'-0"  
20 0 20

NOTES:

1. ALL IMPERVIOUS SURFACES WITHIN THE PROJECT LIMITS OF DISTURBANCE SHALL BE REMOVED PER SHEET 5 "BITUMINOUS/CONCRETE REMOVAL" TYPICAL SECTION
2. EXISTING BOULDERS SHOWN IN WATERFRONT PARK HAVE BEEN REMOVED PREVIOUSLY

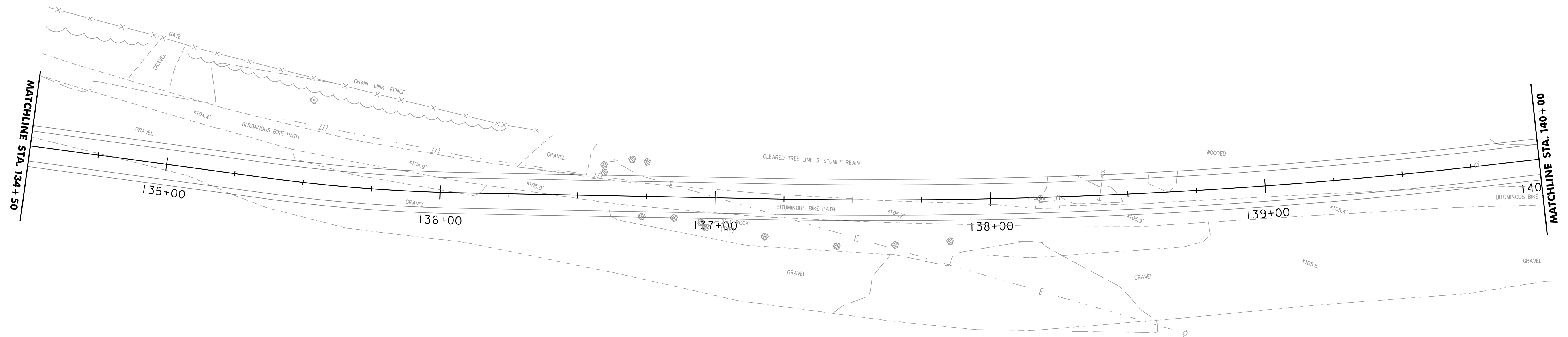
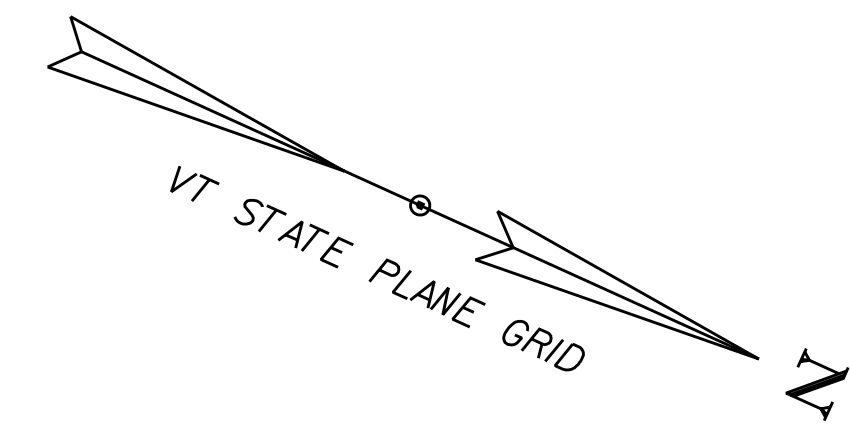
PROJECT NAME: BURLINGTON BIKE PATH  
PROJECT NUMBER: 57634.00

FILE NAME: z57634bdr_nul.dgn  
PROJECT LEADER: M.A. COLGAN  
DESIGNED BY: E.B. PARIZO  
LAYOUT SHEET (1 OF 11)

PLOT DATE: 3/23/2016  
DRAWN BY: P.A. MILLER  
CHECKED BY: E.B. PARIZO  
SHEET 1 OF 22







MAP 38-2, LOT 006  
N/F  
NEW ENGLAND CENTRAL  
RAILROAD, INC.  
BOOK 521, PAGE 029

SCALE 1" = 20'-0"  
20 0 20



PROJECT NAME: BURLINGTON BIKE PATH	
PROJECT NUMBER: 57634.00	
FILE NAME: z57634bdr_nul.dgn	PLOT DATE: 3/23/2016
PROJECT LEADER: M.A. COLGAN	DRAWN BY: P.A. MILLER
DESIGNED BY: E.B. PARIZO	CHECKED BY: E.B. PARIZO
LAYOUT SHEET (2 OF 11)	SHEET 2 OF 22



EXCAVATION OF SURFACES & PAVEMENTS

STA. 140+96 TO 145+75, RT  
STA. 143+25 TO 144+85, LT

SOLID ROCK EXCAVATION

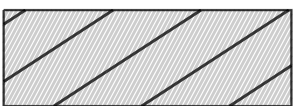
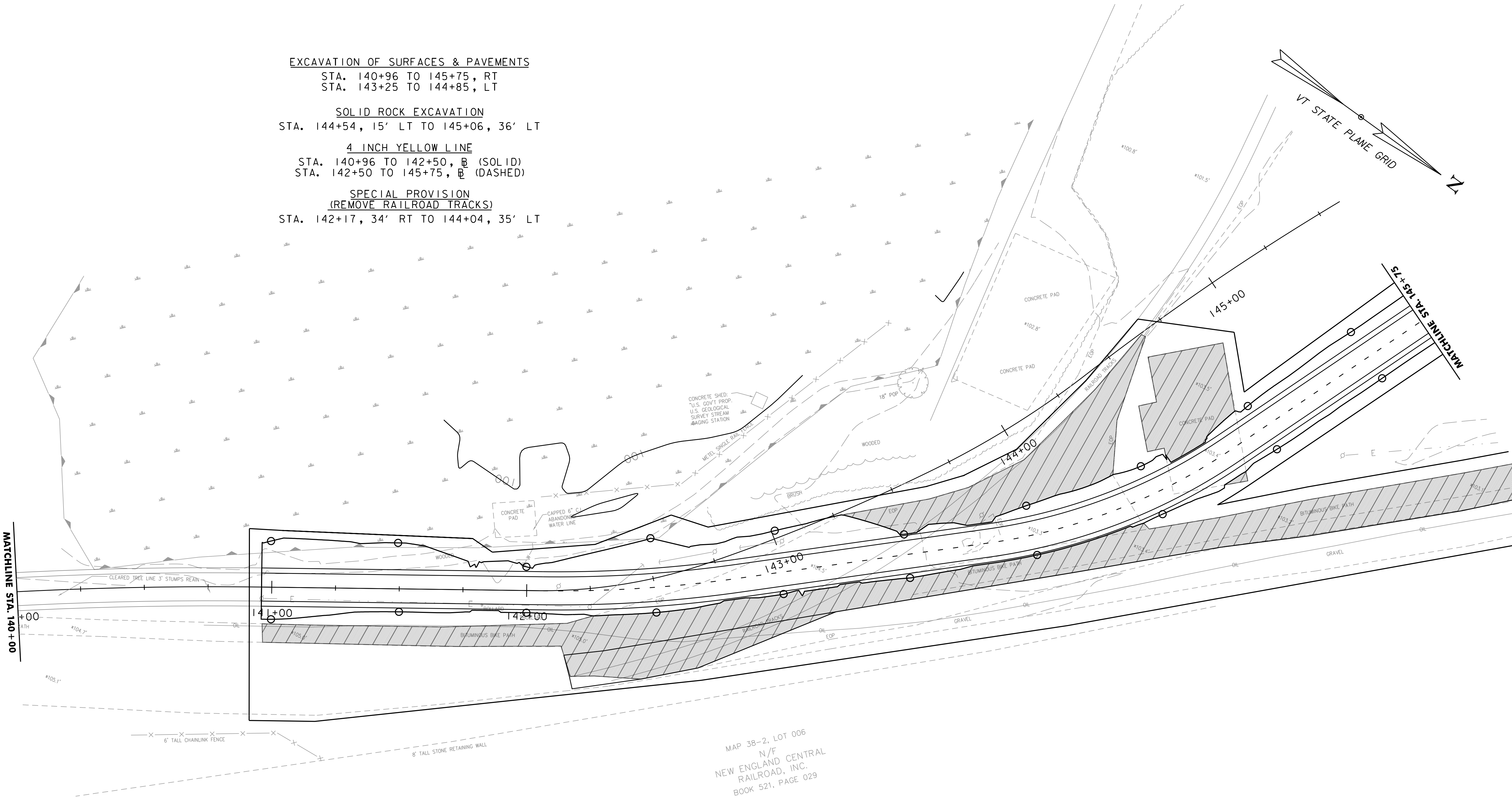
STA. 144+54, 15' LT TO 145+06, 36' LT

4 INCH YELLOW LINE

STA. 140+96 TO 142+50, R (SOLID)  
STA. 142+50 TO 145+75, L (DASHED)

SPECIAL PROVISION  
(REMOVE RAILROAD TRACKS)

STA. 142+17, 34' RT TO 144+04, 35' LT



= REMOVE EXISTING CONCRETE/BITUMINOUS SURFACE

SCALE 1" = 20'-0"  
20 0 20

NOTES:

1. ALL IMPERVIOUS SURFACES WITHIN THE PROJECT LIMITS OF DISTURBANCE SHALL BE REMOVED PER SHEET 5 "BITUMINOUS/CONCRETE REMOVAL" TYPICAL SECTION
2. EXISTING UTILITY POLES AT STA. 140+96 RT, STA. 142+13 LT AND STA. 142+25 RT TO BE REMOVED BY UTILITY COMPANY PRIOR TO CONSTRUCTION

PROJECT NAME: BURLINGTON BIKE PATH

PROJECT NUMBER: 57634.00

FILE NAME: z57634bdr_nul.dgn  
PROJECT LEADER: M.A. COLGAN  
DESIGNED BY: E.B. PARIZO  
LAYOUT SHEET (3 OF 11)

PLOT DATE: 3/23/2016  
DRAWN BY: P.A. MILLER  
CHECKED BY: E.B. PARIZO  
SHEET 3 OF 22





## REMOVING SIGNS

STA.	145+75 TO 151+75, RT
------	----------------------

STA. 147+70, 110' RT

STA. 147+70, 115' RT  
STA. 147+88, 63' RT

STA. 147+88, 62' RI

4 INCH YELLOW LINE

STA. 145+75 TO 151+75 B (DASHED)

## REMOVAL OF EXISTING FENCE

STA. 147+55, RT TO 151+75

SPECIAL PROVISION

(BLACK VINYL CHAIN LINK FENCE, 4 FEET)

STA. / 149+35, RT TO 151+75, RT

## CLEARING AND GRUBBING

STA. 147+38, RT TO 147+92, RT

STA. 147+57, LT TO 148+14, LT

104.2'

146+00

**MATCHLINE STA. 145 + 75**



**MATCHLINE STA**

250' - 0" OFFSET  
100.0' ELEV.

250' - 0" OFFSET  
95.5' ELEV. APPROX DOG

NOTE:

1. ALL IMPERVIOUS SURFACES WITHIN THE PROJECT LIMITS OF DISTURBANCE SHALL BE REMOVED PER SHEET 5 "BITUMINOUS/CONCRETE REMOVAL" TYPICAL SECTION

MAP 38-2, LOT 006  
N/F  
NEW ENGLAND CENTRAL  
RAILROAD, INC.  
BOOK 521, PAGE 029

SCALE 1" = 20' - 0"

20	0	20
----	---	----

PROJECT NAME: BURLINGTON BIKE PATH

PROJECT NUMBER: 57634.00

FILE NAME: z57634bdr_nul.dgn

PROJECT LEADER: M.A. COLGAN

DESIGNED BY: E.B. PARIZO

LAYOUT SHEET (4 OF 11)

PLOT DATE: 3/23/2016

DRAWN BY: P.A. MILLER

CHECKED BY: E.B. PARIZO

SHEET 4 OF 22

VHB 57634.00



EXCAVATION OF SURFACES & PAVEMENTS  
STA. 151+75 TO 157+50, ALL

4 INCH YELLOW LINE  
STA. 151+75 TO 157+50 (DASHED)

SPECIAL PROVISION  
(BLACK VINYL CHAIN LINK FENCE, 4 FEET)  
STA. 151+75, RT TO 153+35, RT

REMOVAL OF EXISTING FENCE  
STA. 151+75 TO 153+50

SOLID ROCK EXCAVATION  
(REMOVAL OF CONCRETE)

STA. 154+14 TO 154+66, ALL  
STA. 155+20 TO 155+75, ALL  
STA. 156+55 TO 157+40, ALL

REMOVE MEDIUM TREES (8 TOTAL)

STA. 154+16, 16' LT  
STA. 155+75 TO STA. 157+50, WITHIN L.O.D.

RIP RAP, HEAVY TYPE &  
STONE FILL, TYPE II

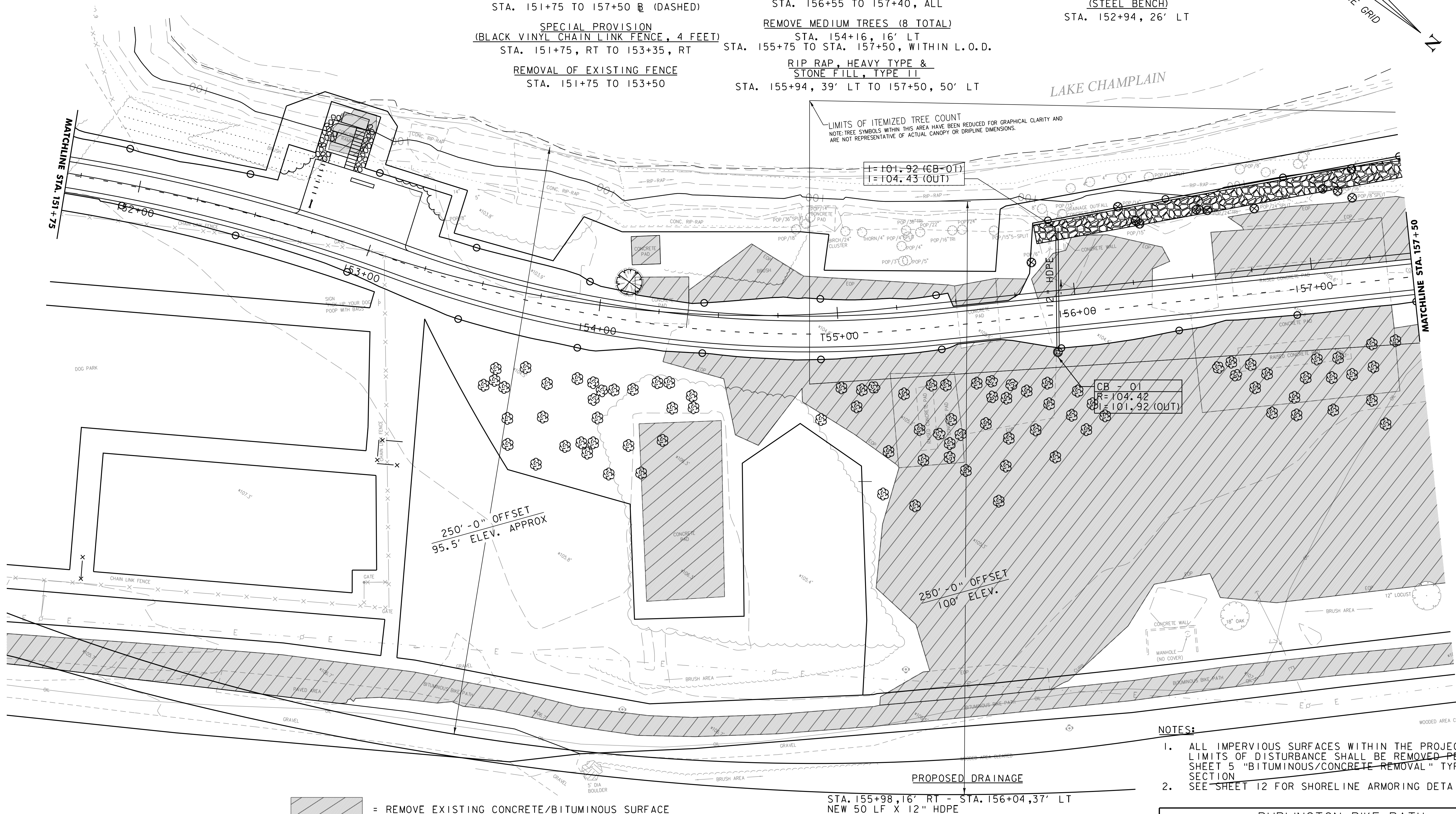
STA. 155+94, 39' LT TO 157+50, 50' LT

CLEARING AND GRUBBING  
STA. 155+75 TO 157+50, WITHIN L.O.D.

SPECIAL PROVISION  
(STEEL BENCH)

STA. 152+94, 26' LT

VT STATE PLANE GRID



NOTES:

- ALL IMPERVIOUS SURFACES WITHIN THE PROJECT LIMITS OF DISTURBANCE SHALL BE REMOVED PER SHEET 5 "BITUMINOUS/CONCRETE REMOVAL" TYPICAL SECTION
- SEE SHEET 12 FOR SHORELINE ARMORING DETAILS

PROJECT NAME: BURLINGTON BIKE PATH

PROJECT NUMBER: 57634.00

FILE NAME: z57634bdr_nul.dgn

PROJECT LEADER: M.A. COLGAN

DESIGNED BY: E.B. PARIZO

LAYOUT SHEET (5 OF 11)

PLOT DATE: 3/23/2016

DRAWN BY: P.A. MILLER

CHECKED BY: E.B. PARIZO

SHEET 5 OF 22

MAP 38-2, LOT 006  
N/F  
NEW ENGLAND CENTRAL  
RAILROAD, INC.  
BOOK 521, PAGE 029



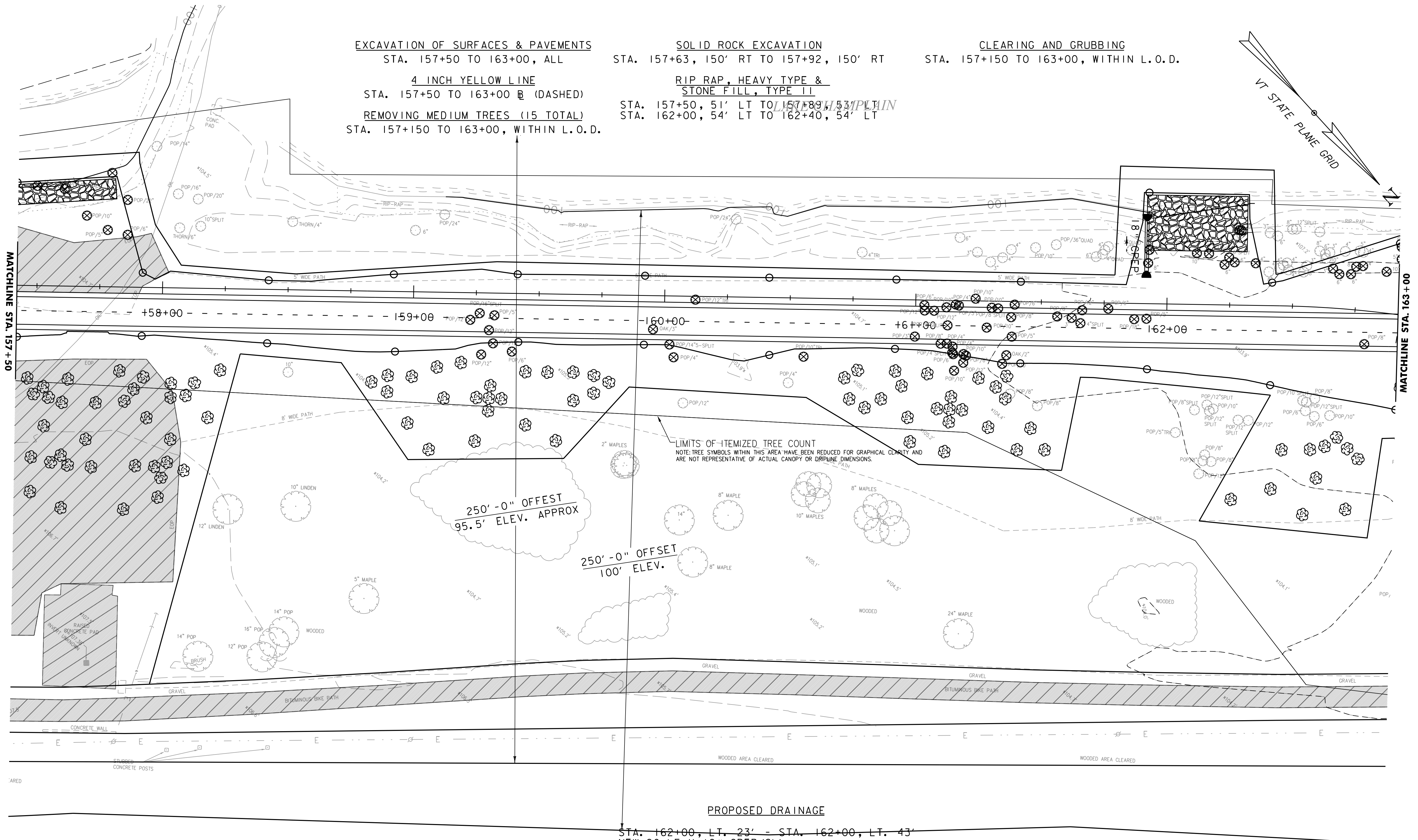
= REMOVE TREE

SCALE 1" = 20' - 0"

20 0 20







**EXCAVATION OF SURFACES & PAVEMENTS**  
STA. 157+50 TO 163+00, ALL

**4 INCH YELLOW LINE**  
STA. 157+50 TO 163+00 (DASHED)

**REMOVING MEDIUM TREES (15 TOTAL)**  
STA. 157+150 TO 163+00, WITHIN L.O.D.

**SOLID ROCK EXCAVATION**  
STA. 157+63, 150' RT TO 157+92, 150' RT

**RIP RAP, HEAVY TYPE & STONE FILL, TYPE II**  
STA. 157+50, 51' LT TO 157+89, 53' LT  
STA. 162+00, 54' LT TO 162+40, 54' LT

**CLEARING AND GRUBBING**  
STA. 157+150 TO 163+00, WITHIN L.O.D.

- [Hatched Box] = REMOVE EXISTING CONCRETE/BITUMINOUS SURFACE
- [Tree Symbol] = REMOVE TREE

SCALE 1" = 20'-0"  
20 0 20

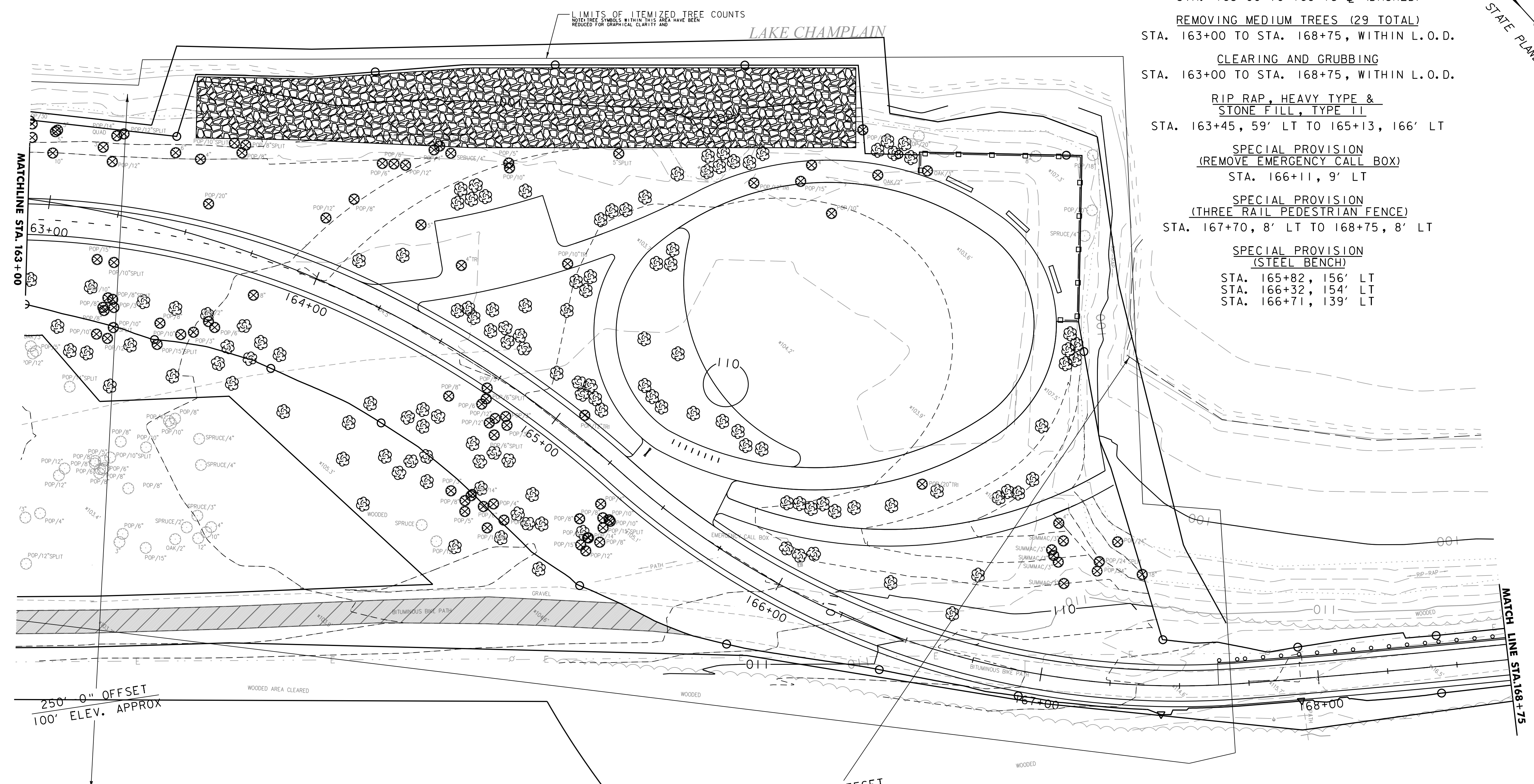
**NOTES:**

- ALL IMPERVIOUS SURFACES WITHIN THE PROJECT LIMITS OF DISTURBANCE SHALL BE REMOVED PER SHEET 5 "BITUMINOUS/CONCRETE REMOVAL" TYPICAL SECTION
- SEE SHEET 12 FOR SHORELINE ARMORING DETAILS

PROJECT NAME: BURLINGTON BIKE PATH	
PROJECT NUMBER: 57634.00	
FILE NAME: z57634bdr_nul.dgn	PLOT DATE: 3/23/2016
PROJECT LEADER: M.A. COLGAN	DRAWN BY: P.A. MILLER
DESIGNED BY: P.A. MILLER	CHECKED BY: E.B. PARIZO
LAYOUT SHEET (6 OF 11)	SHEET 6 OF 22



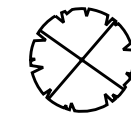




- EXCAVATION OF SURFACES & PAVEMENTS  
STA. 163+00, 150' RT TO 165+90, 32' RT  
4 INCH YELLOW LINE  
STA. 163+00 TO 168+75 (DASHED)  
REMOVING MEDIUM TREES (29 TOTAL)  
STA. 163+00 TO STA. 168+75, WITHIN L.O.D.  
CLEARING AND GRUBBING  
STA. 163+00 TO STA. 168+75, WITHIN L.O.D.  
RIP RAP, HEAVY TYPE &  
STONE FILL, TYPE II  
STA. 163+45, 59' LT TO 165+13, 166' LT  
SPECIAL PROVISION  
(REMOVE EMERGENCY CALL BOX)  
STA. 166+11, 9' LT  
SPECIAL PROVISION  
(THREE RAIL PEDESTRIAN FENCE)  
STA. 167+70, 8' LT TO 168+75, 8' LT  
SPECIAL PROVISION  
(STEEL BENCH)  
STA. 165+82, 156' LT  
STA. 166+32, 154' LT  
STA. 166+71, 139' LT

250' -0" OFFSET  
100' ELEV. APPROX

250' -0" OFFSET  
95.5' ELEV.

-  = REMOVE EXISTING CONCRETE/BITUMINOUS SURFACE  
 = REMOVE TREE

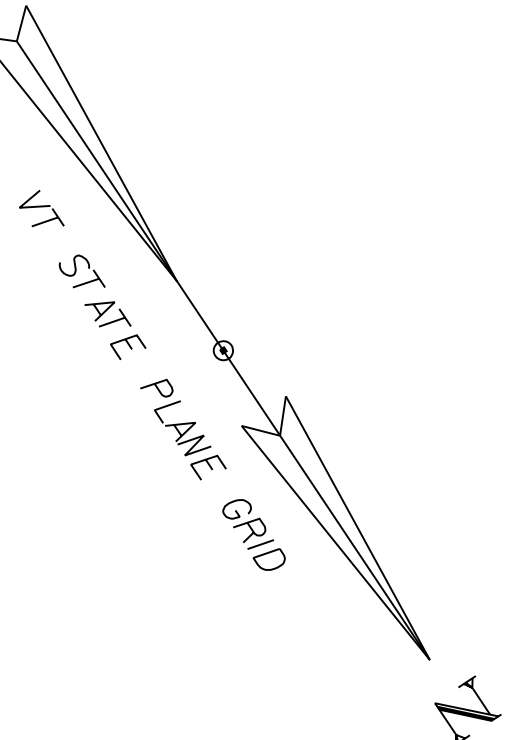
SCALE 1" = 20' -0"  
20 0 20

- NOTES:  
1. ALL IMPERVIOUS SURFACES WITHIN THE PROJECT LIMITS OF DISTURBANCE SHALL BE REMOVED PER TYPICAL SECTIONS UNLESS OTHERWISE NOTED  
2. SEE SHEET 12 FOR SHORELINE ARMORING DETAILS

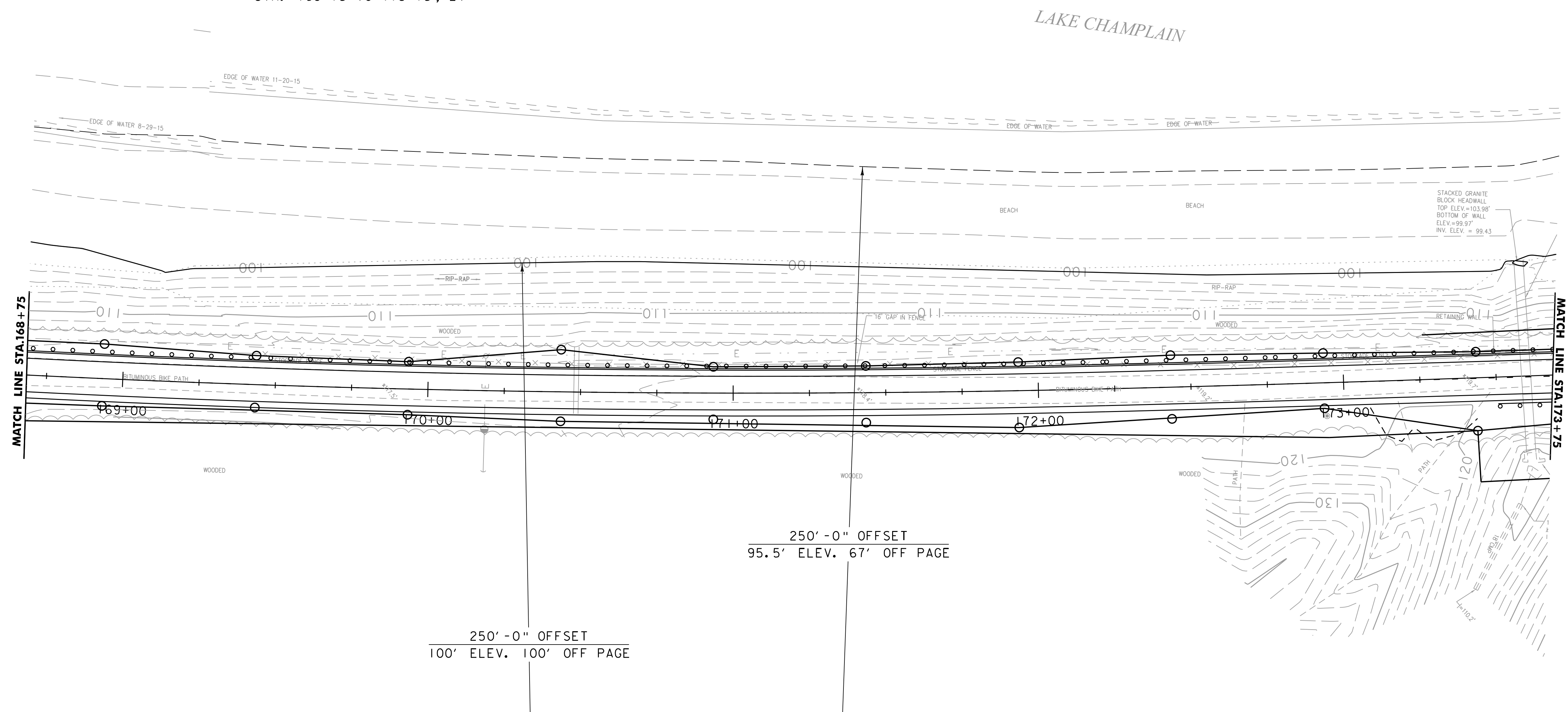
PROJECT NAME: BURLINGTON BIKE PATH	
PROJECT NUMBER: 57634.00	
FILE NAME: z57634bdr_nul.dgn	PLOT DATE: 3/23/2016
PROJECT LEADER: M.A. COLGAN	DRAWN BY: P.A. MILLER
DESIGNED BY: E.B. PARIZO	CHECKED BY: E.B. PARIZO
LAYOUT SHEET (7 OF 11)	SHEET 7 OF 22







4 INCH YELLOW LINE  
STA. 168+75 TO 173+75 @ (DASHED)  
SPECIAL PROVISION  
(THREE RAIL PEDESTRIAN FENCE)  
STA. 168+75 TO 173+75, 8' LT  
STA. 173+56 TO 173+75, 8.5' RT  
REMOVAL OF EXISTING FENCE  
STA. 168+75 TO 173+75, LT



250' -0" OFFSET  
95.5' ELEV. 67' OFF PAGE

250' -0" OFFSET  
100' ELEV. 100' OFF PAGE

SCALE 1" = 20' -0"  
20 0 20



PROJECT NAME: BURLINGTON BIKE PATH	
PROJECT NUMBER: 57634.00	
FILE NAME: z57634bdr_nul.dgn	PLOT DATE: 3/23/2016
PROJECT LEADER: M.A. COLGAN	DRAWN BY: M.F. SUFFEL
DESIGNED BY: D.M. PECK	CHECKED BY: E.B. PARIZO
LAYOUT SHEET (8 OF 11)	SHEET 8 OF 22



4 INCH YELLOW LINE  
STA. 173+75 TO 179+25 (DASHED)

REMOVAL OF EXISTING FENCE

STA. 173+75 TO 173+98, RT

STA. 173+75 TO 179+25, LT

STA. 176+37 TO 179+25, RT

SPECIAL PROVISION

(THREE RAIL PEDESTRIAN FENCE)

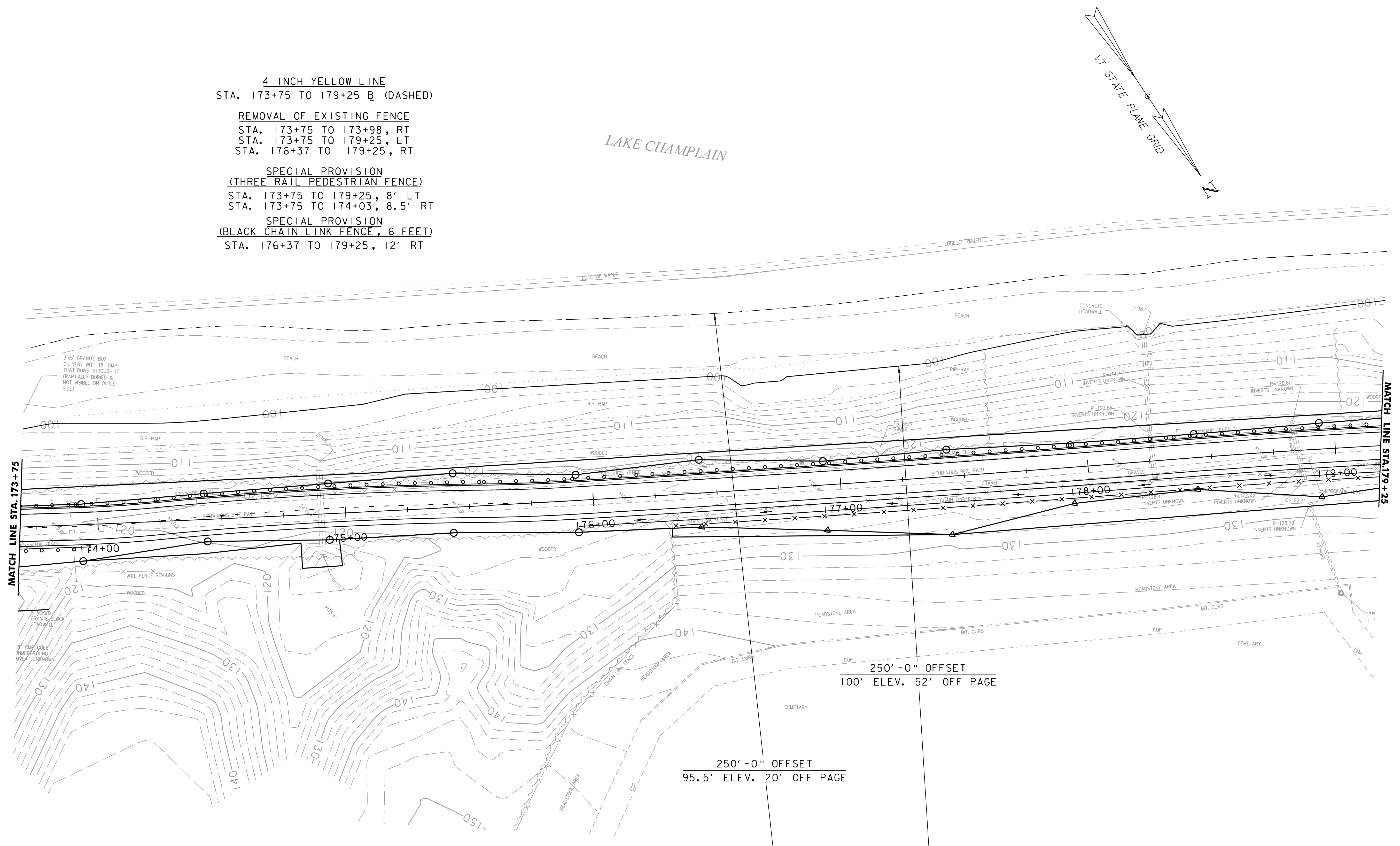
STA. 173+75 TO 179+25, 8' LT

STA. 173+75 TO 174+03, 8.5' RT

SPECIAL PROVISION

(BLACK CHAIN LINK FENCE, 6 FEET)

STA. 176+37 TO 179+25, 12' RT



SCALE 1" = 20' - 0"  
20 0 20

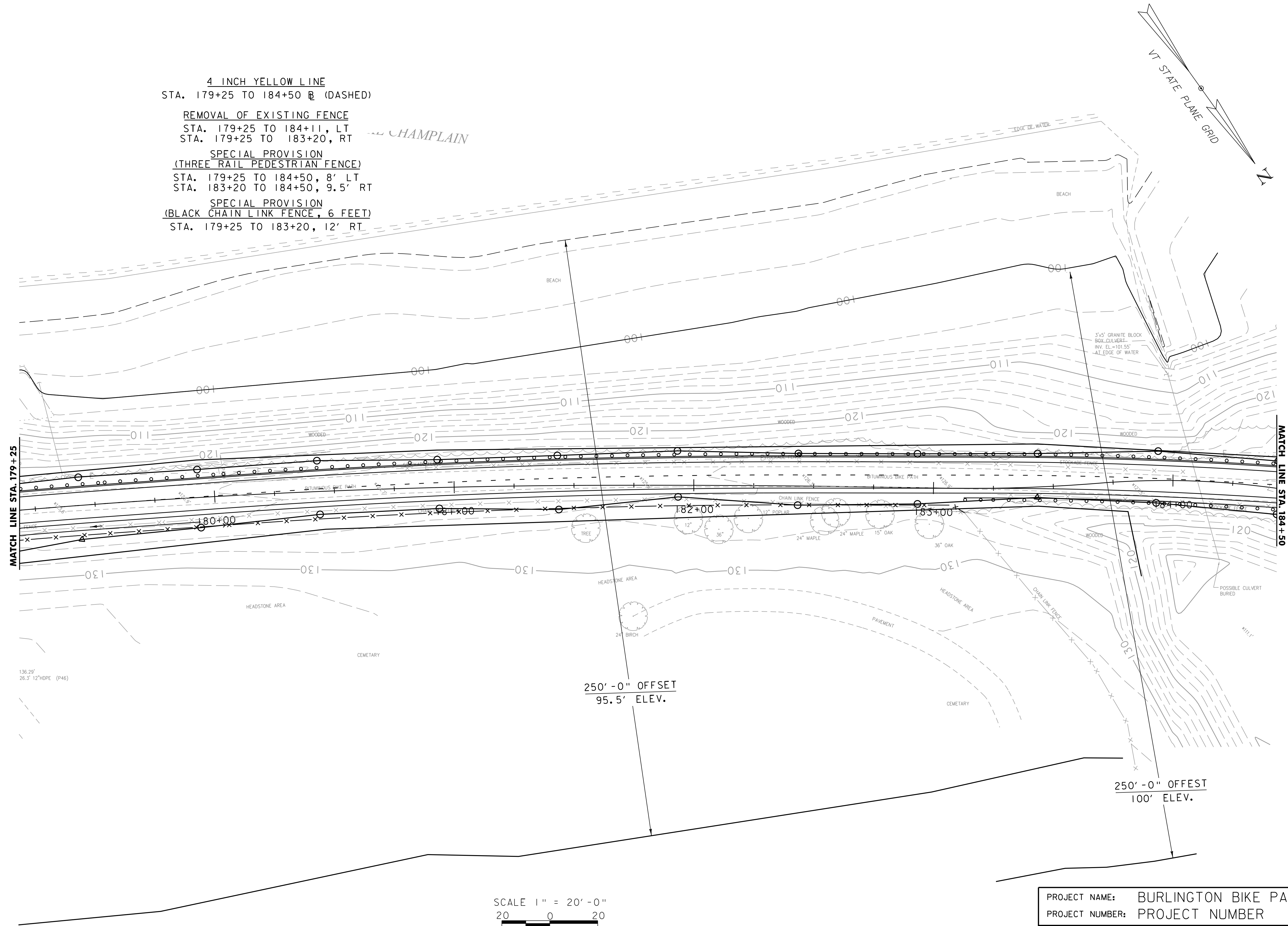


PROJECT NAME: BURLINGTON BIKE PATH  
PROJECT NUMBER: 57634.00

FILE NAME: z57634bdr_nul.dgn  
PROJECT LEADER: M.A. COLGAN  
DESIGNED BY: D.M. PECK  
LAYOUT SHEET (9 OF 11)

PLOT DATE: 3/23/2016  
DRAWN BY: M.F. SUFFEL  
CHECKED BY: E.B. PARIZO  
SHEET 9 OF 22





4 INCH YELLOW LINE  
STA. 179+25 TO 184+50 (DASHED)

REMOVAL OF EXISTING FENCE

STA. 179+25 TO 184+11, LT  
STA. 179+25 TO 183+20, RT

SPECIAL PROVISION  
(THREE RAIL PEDESTRIAN FENCE)

STA. 179+25 TO 184+50, 8' LT  
STA. 183+20 TO 184+50, 9.5' RT

SPECIAL PROVISION  
(BLACK CHAIN LINK FENCE, 6 FEET)

STA. 179+25 TO 183+20, 12' RT

PROJECT NAME: BURLINGTON BIKE PATH

PROJECT NUMBER: PROJECT NUMBER

FILE NAME: z57634bdr_nul.dgn

PROJECT LEADER: M.A.COLGAN

DESIGNED BY: D.M.PECK

LAYOUT SHEET (10 OF 11)

PLOT DATE: 3/23/2016

DRAWN BY: M.F.SUFFEL

CHECKED BY: E.B. PARIZO

SHEET 10 OF 22









EXCAVATION OF SURFACES & PAVEMENTS  
STA. 130+02, 7.5' LT TO 131+09, 7.5' LT

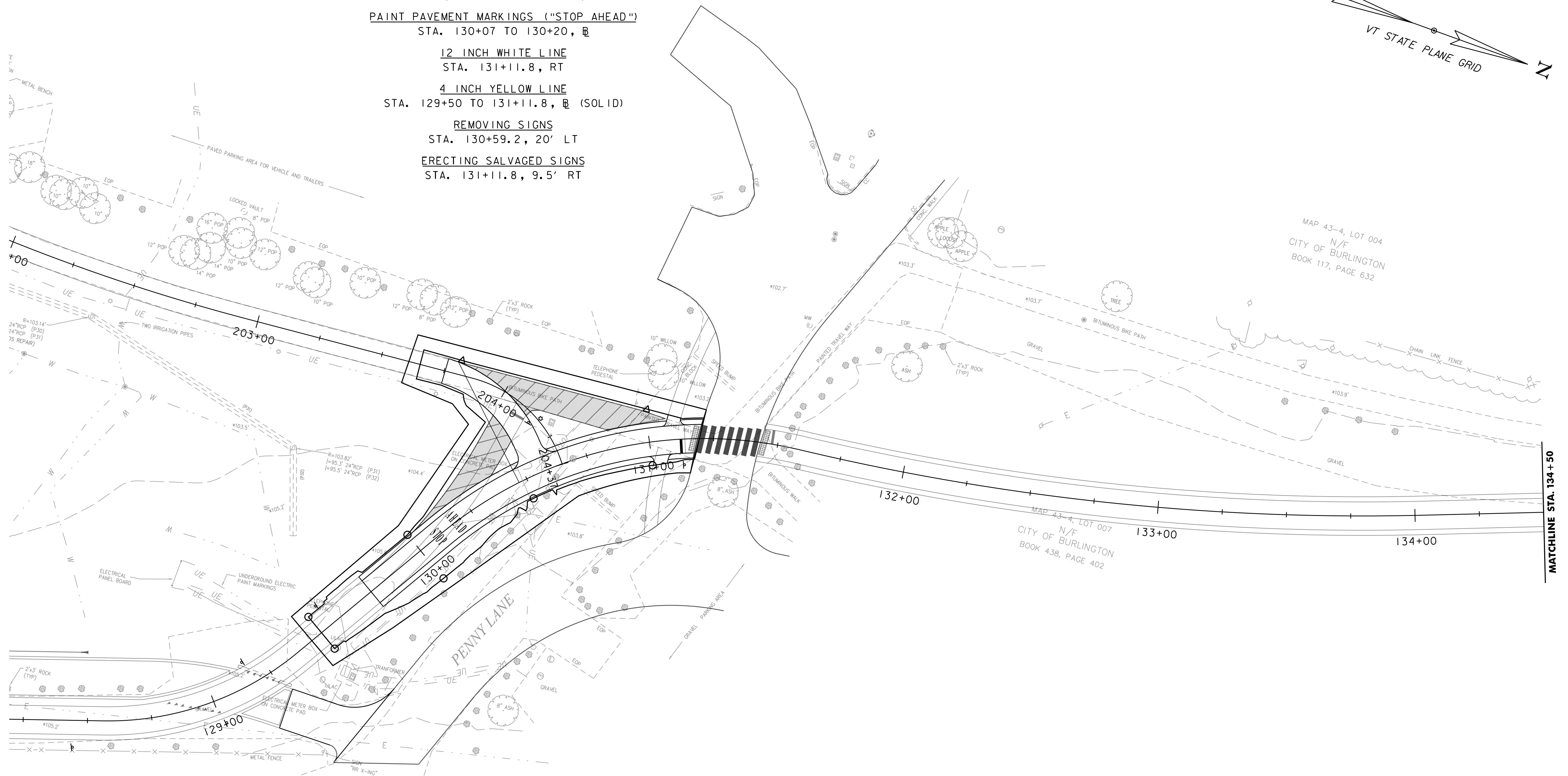
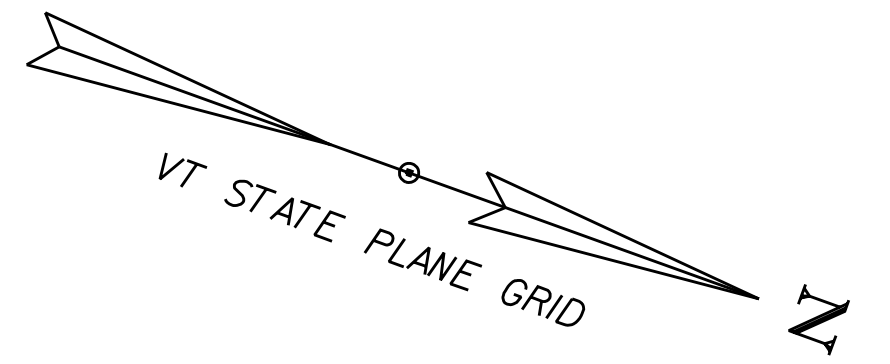
PAINT PAVEMENT MARKINGS ("STOP AHEAD")  
STA. 130+07 TO 130+20, R

12 INCH WHITE LINE  
STA. 131+11.8, RT

4 INCH YELLOW LINE  
STA. 129+50 TO 131+11.8, R (SOLID)

REMOVING SIGNS  
STA. 130+59.2, 20' LT

ERECTING SALVAGED SIGNS  
STA. 131+11.8, 9.5' RT



 = REMOVE EXISTING CONCRETE/BITUMINOUS SURFACE

SCALE 1" = 20'-0"  
20 0 20

NOTES:

- ALL IMPERVIOUS SURFACES WITHIN THE PROJECT LIMITS OF DISTURBANCE SHALL BE REMOVED PER SHEET 5 "BITUMINOUS/CONCRETE REMOVAL" TYPICAL SECTION
- EXISTING BOULDERS SHOWN IN WATERFRONT PARK HAVE BEEN REMOVED PREVIOUSLY

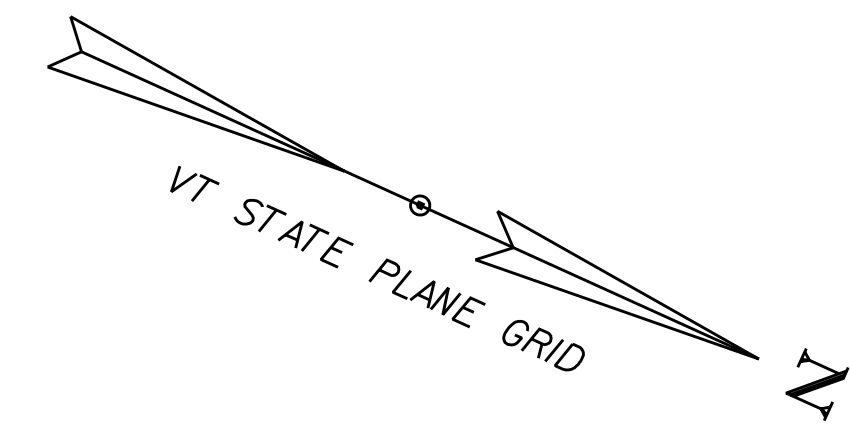
PROJECT NAME: BURLINGTON BIKE PATH  
PROJECT NUMBER: 57634.00

FILE NAME: z57634bdr_nul.dgn  
PROJECT LEADER: M.A. COLGAN  
DESIGNED BY: E.B. PARIZO  
LAYOUT SHEET (1 OF 11)

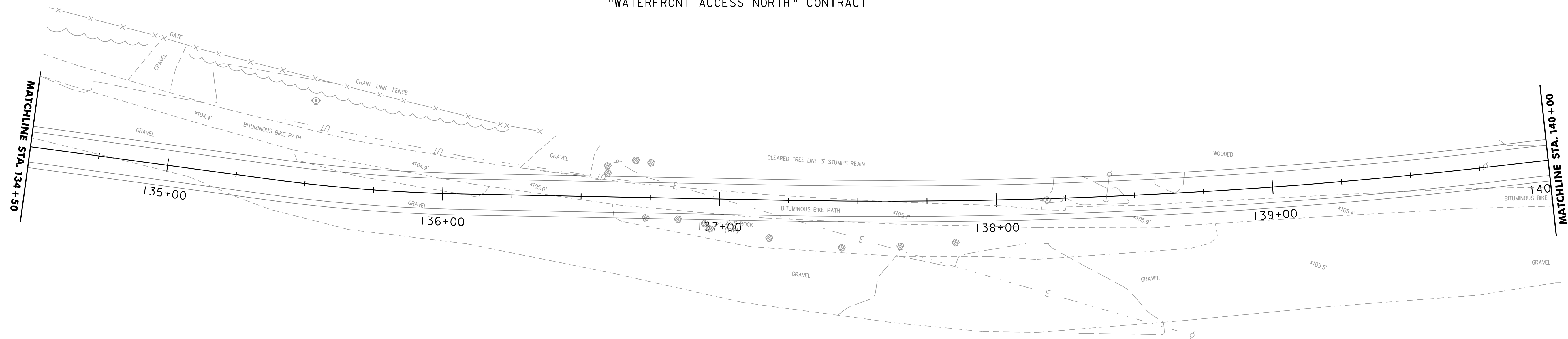
PLOT DATE: 3/23/2016  
DRAWN BY: P.A. MILLER  
CHECKED BY: E.B. PARIZO  
SHEET 12 OF 22







BIKE PATH FROM STA. 131+13  
TO 140+96 CONSTRUCTED UNDER THE  
"WATERFRONT ACCESS NORTH" CONTRACT



MAP 38-2, LOT 006  
N/F  
NEW ENGLAND CENTRAL  
RAILROAD, INC.  
BOOK 521, PAGE 029

SCALE 1" = 20'-0"  
20 0 20



PROJECT NAME: BURLINGTON BIKE PATH	
PROJECT NUMBER: 57634.00	
FILE NAME: z57634bdr_nul.dgn	PLOT DATE: 3/23/2016
PROJECT LEADER: M.A. COLGAN	DRAWN BY: P.A. MILLER
DESIGNED BY: E.B. PARIZO	CHECKED BY: E.B. PARIZO
LAYOUT SHEET (2 OF 11)	SHEET 13 OF 22



EXCAVATION OF SURFACES & PAVEMENTS

STA. 140+96 TO 145+75, RT  
STA. 143+25 TO 144+85, LT

SOLID ROCK EXCAVATION

STA. 144+54, 15' LT TO 145+06, 36' LT

4 INCH YELLOW LINE

STA. 140+96 TO 142+50, R (SOLID)  
STA. 142+50 TO 145+75, L (DASHED)

SPECIAL PROVISION  
(REMOVE RAILROAD TRACKS)

STA. 142+17, 34' RT TO 144+04, 35' LT

REMOVE EXISTING RAILROAD TRACKS

PATH CONSTRUCTION LIMITS (TYP)

2'-0" AGGREGATE SHOULDER (TYP)

5'-6" TRAVEL LANE (TYP)

11'-0" PAVED PATH (TYP)

PATH CONSTRUCTION  
LIMITS (TYP)

MATCHLINE STA. 140+00

BIKE PATH FROM STA.  
131+13 TO 140+96  
CONSTRUCTED UNDER THE  
"WATERFRONT ACCESS NORTH"  
CONTRACT

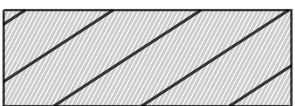
REMOVE BITUMINOUS,  
2" TOPSOIL & SEED

SAWCUT

14'-0"

REMOVE CONCRETE, REFILL VOID WITH  
EARTH BORROW, 6" TOPSOIL & SEED

REMOVE BITUMINOUS,  
6" TOPSOIL & SEED



= REMOVE EXISTING CONCRETE/BITUMINOUS SURFACE

SCALE 1" = 20'-0"  
20 0 20

NOTES:

- ALL IMPERVIOUS SURFACES WITHIN THE PROJECT LIMITS OF DISTURBANCE SHALL BE REMOVED PER SHEET 5 "BITUMINOUS/CONCRETE REMOVAL" TYPICAL SECTION
- EXISTING UTILITY POLES AT STA. 140+96 RT, STA. 142+13 LT AND STA. 142+25 RT TO BE REMOVED BY UTILITY COMPANY PRIOR TO CONSTRUCTION

PROJECT NAME: BURLINGTON BIKE PATH

PROJECT NUMBER: 57634.00

FILE NAME: z57634bdr_nul.dgn  
PROJECT LEADER: M.A. COLGAN  
DESIGNED BY: E.B. PARIZO  
LAYOUT SHEET (3 OF 11)

PLOT DATE: 3/23/2016  
DRAWN BY: P.A. MILLER  
CHECKED BY: E.B. PARIZO  
SHEET 14 OF 22





EXCAVATION OF SURFACES & PAVEMENTS

STA. 145+75 TO 151+75, RT

4 INCH YELLOW LINE

STA. 145+75 TO 151+75 @ (DASHED)

REMOVAL OF EXISTING FENCE

STA. 147+55, RT TO 151+75

SPECIAL PROVISION

(BLACK VINYL CHAIN LINK FENCE, 4 FEET)

STA. 149+35, RT TO 151+75, RT

REMOVING SIGNS

STA. 147+70, 110' RT

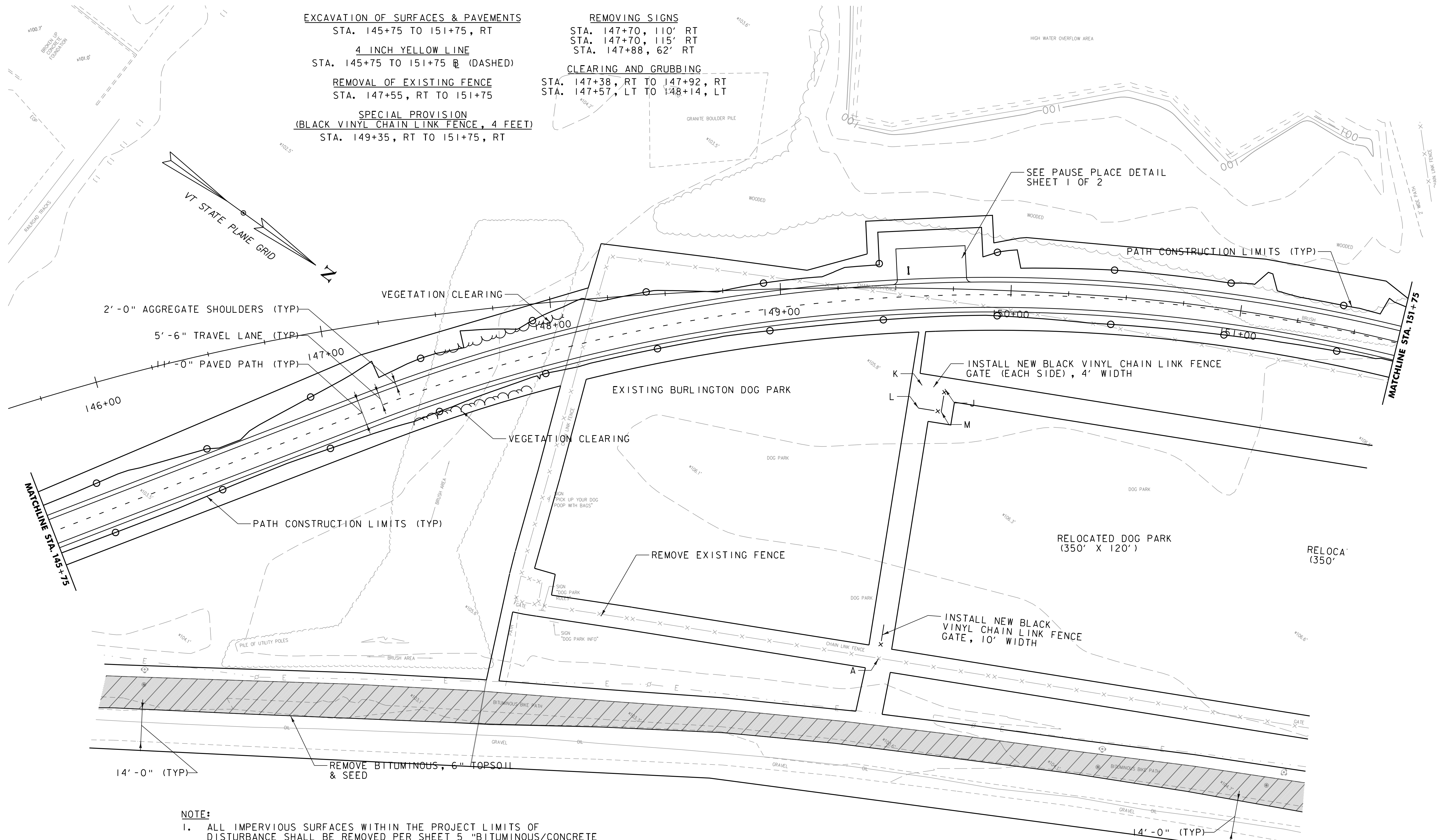
STA. 147+70, 115' RT

STA. 147+88, 62' RT

CLEARING AND GRUBBING

STA. 147+38, RT TO 147+92, RT

STA. 147+57, LT TO 148+14, LT



**NOTE:**

1. ALL IMPERVIOUS SURFACES WITHIN THE PROJECT LIMITS OF DISTURBANCE SHALL BE REMOVED PER SHEET 5 "BITUMINOUS/CONCRETE REMOVAL" TYPICAL SECTION



REMOVE EXISTING CONCRETE/BITUMINOUS SURFACE

MAP 38-2, LOT 006  
N/F  
NEW ENGLAND CENTRAL  
RAILROAD, INC.  
BOOK 521, PAGE 029

SCALE 1" = 20'-0"  
20 0 20



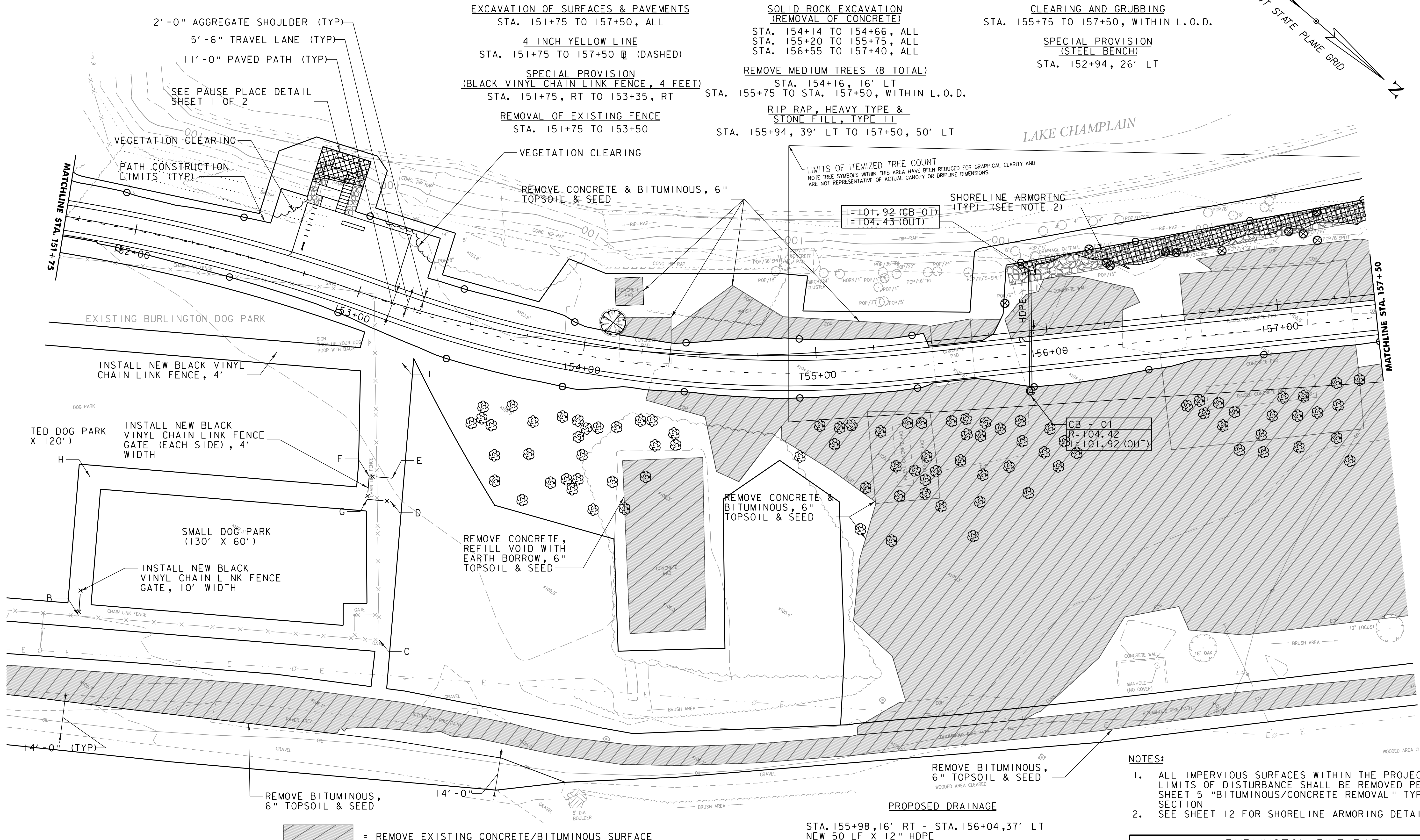
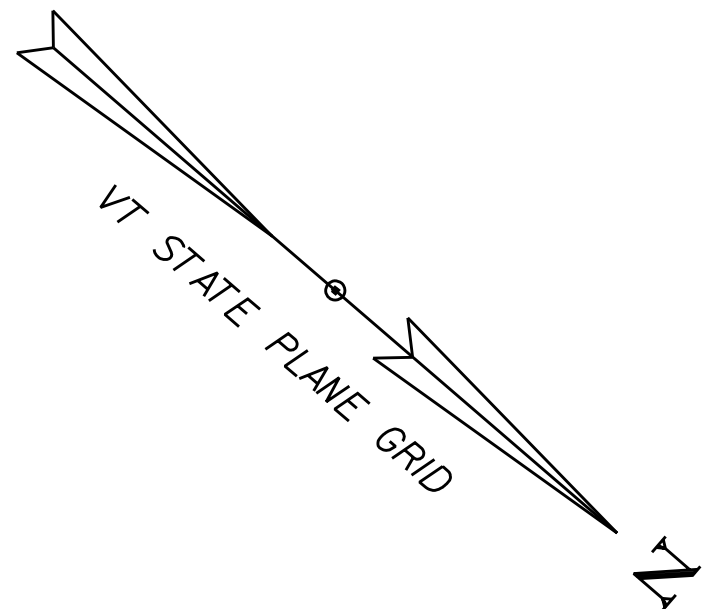
PROJECT NAME: BURLINGTON BIKE PATH

PROJECT NUMBER: 57634.00

FILE NAME: z57634bdr_nul.dgn  
PROJECT LEADER: M.A. COLGAN  
DESIGNED BY: E.B. PARIZO  
LAYOUT SHEET (4 OF 11)

PLOT DATE: 3/23/2016  
DRAWN BY: P.A. MILLER  
CHECKED BY: E.B. PARIZO  
SHEET 15 OF 22





EXCAVATION OF SURFACES & PAVEMENTS  
STA. 151+75 TO 157+50, ALL

4 INCH YELLOW LINE  
STA. 151+75 TO 157+50 (DASHED)

SPECIAL PROVISION  
(BLACK VINYL CHAIN LINK FENCE, 4 FEET)  
STA. 151+75, RT TO 153+35, RT

REMOVAL OF EXISTING FENCE  
STA. 151+75 TO 153+50

SOLID ROCK EXCAVATION  
(REMOVAL OF CONCRETE)

STA. 154+14 TO 154+66, ALL  
STA. 155+20 TO 155+75, ALL  
STA. 156+55 TO 157+40, ALL

REMOVE MEDIUM TREES (8 TOTAL)

STA. 154+16, 16' LT  
STA. 155+75 TO STA. 157+50, WITHIN L.O.D.

RIP RAP, HEAVY TYPE &  
STONE FILL, TYPE II

STA. 155+94, 39' LT TO 157+50, 50' LT

CLEARING AND GRUBBING  
STA. 155+75 TO 157+50, WITHIN L.O.D.

SPECIAL PROVISION  
(STEEL BENCH)

STA. 152+94, 26' LT

LIMITS OF ITEMIZED TREE COUNT  
NOTE: TREE SYMBOLS WITHIN THIS AREA HAVE BEEN REDUCED FOR GRAPHICAL CLARITY AND  
ARE NOT REPRESENTATIVE OF ACTUAL CANOPY OR DIAPYCNOMETER DIMENSIONS.

SHORELINE ARMORING  
(TYP) (SEE NOTE 2)

I=101.92 (CB-01)  
I=104.43 (OUT)

CB - 01  
R=104.42  
I=101.92 (OUT)

NOTES:

- ALL IMPERVIOUS SURFACES WITHIN THE PROJECT LIMITS OF DISTURBANCE SHALL BE REMOVED PER SHEET 5 "BITUMINOUS/CONCRETE REMOVAL" TYPICAL SECTION
- SEE SHEET 12 FOR SHORELINE ARMORING DETAILS

PROJECT NAME: BURLINGTON BIKE PATH

PROJECT NUMBER: 57634.00

FILE NAME: z57634bdr_nul.dgn

PROJECT LEADER: M.A. COLGAN

DESIGNED BY: E.B. PARIZO

LAYOUT SHEET (5 OF 11)

PLOT DATE: 3/23/2016

DRAWN BY: P.A. MILLER

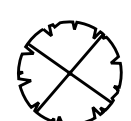
CHECKED BY: E.B. PARIZO

SHEET 16 OF 22

MAP 38-2, LOT 006  
N/F  
NEW ENGLAND CENTRAL  
RAILROAD, INC.  
BOOK 521, PAGE 029



= REMOVE EXISTING CONCRETE/BITUMINOUS SURFACE



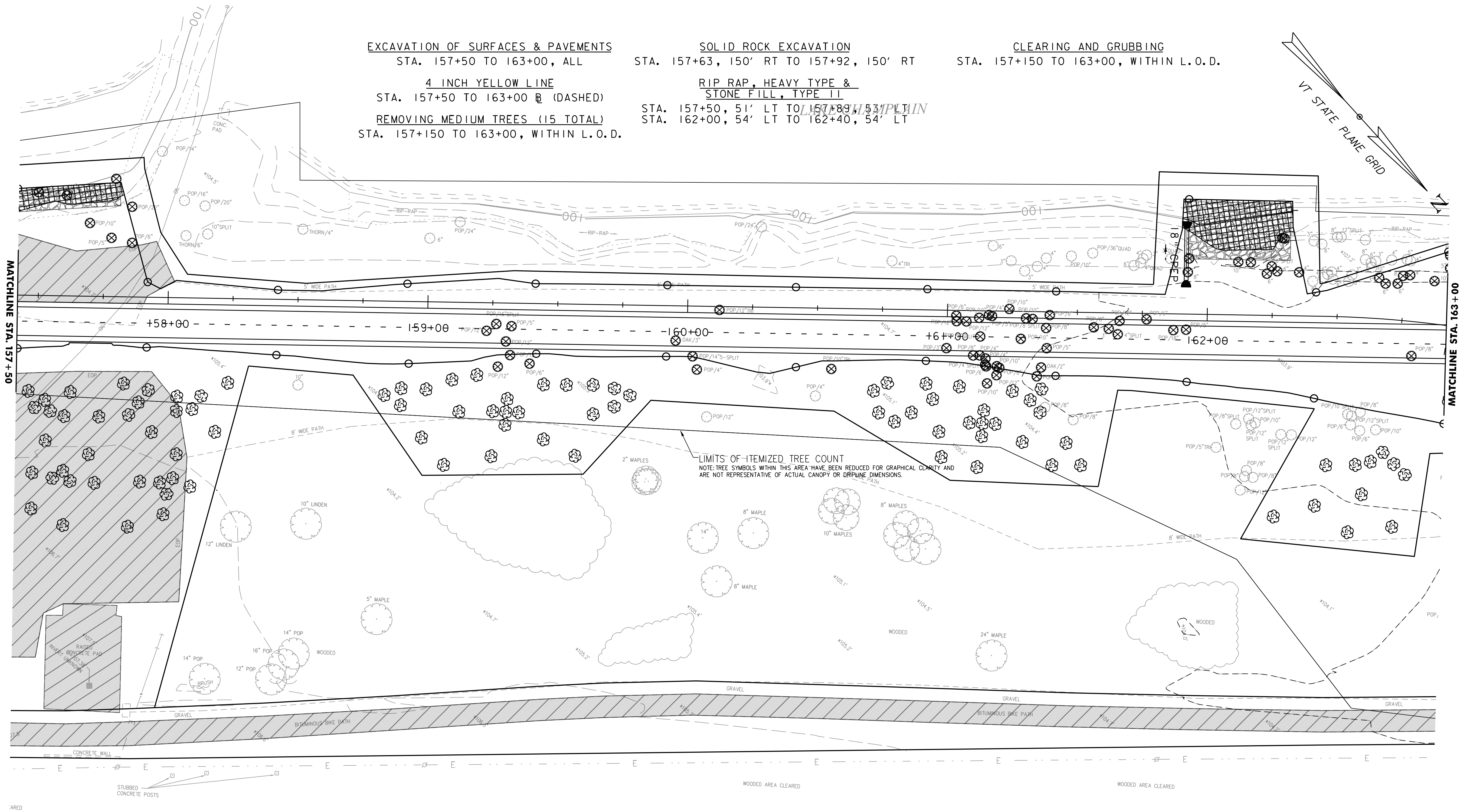
= REMOVE TREE

SCALE 1" = 20'-0"

20 0 20







**EXCAVATION OF SURFACES & PAVEMENTS**  
STA. 157+50 TO 163+00, ALL  
**4 INCH YELLOW LINE**  
STA. 157+50 TO 163+00 (DASHED)  
**REMOVING MEDIUM TREES (15 TOTAL)**  
STA. 157+150 TO 163+00, WITHIN L.O.D.

**SOLID ROCK EXCAVATION**  
STA. 157+63, 150' RT TO 157+92, 150' RT  
**RIP RAP, HEAVY TYPE & STONE FILL, TYPE II**  
STA. 157+50, 51' LT TO 157+89, 53' LT  
STA. 162+00, 54' LT TO 162+40, 54' LT

**CLEARING AND GRUBBING**  
STA. 157+150 TO 163+00, WITHIN L.O.D.

**PROPOSED DRAINAGE**  
STA. 162+00, LT. 23' - STA. 162+00, LT. 43'  
NEW 20 LF X 18" CPEP (SL)  
NEW 18" CPEPES AT INLET, +00, LT. 23'  
18" INV. AT INLET = 103.80  
NEW 18" CPEPES AT OUTLET, +00, LT. 43'  
18" INV. AT OUTLET = 103.40

- NOTES:**
- ALL IMPERVIOUS SURFACES WITHIN THE PROJECT LIMITS OF DISTURBANCE SHALL BE REMOVED PER SHEET 5 "BITUMINOUS/CONCRETE REMOVAL" TYPICAL SECTION
  - SEE SHEET 12 FOR SHORELINE ARMORING DETAILS

= REMOVE EXISTING CONCRETE/BITUMINOUS SURFACE

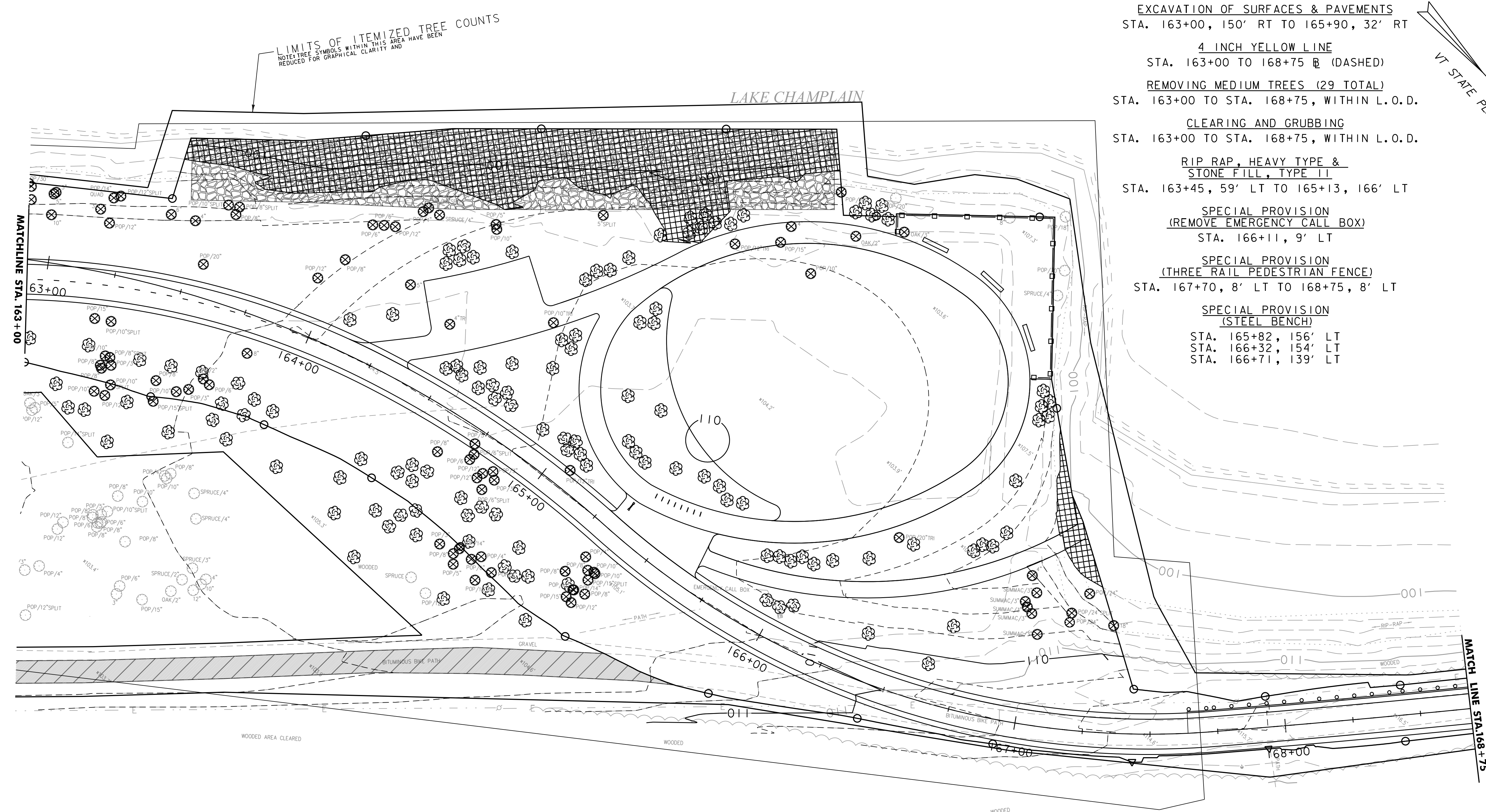
= REMOVE TREE

SCALE 1" = 20'-0"  
20 0 20



PROJECT NAME: BURLINGTON BIKE PATH	
PROJECT NUMBER: 57634.00	
FILE NAME: z57634bdr_nul.dgn	PLOT DATE: 3/23/2016
PROJECT LEADER: M.A. COLGAN	DRAWN BY: P.A. MILLER
DESIGNED BY: P.A. MILLER	CHECKED BY: E.B. PARIZO
LAYOUT SHEET (6 OF 11)	SHEET 17 OF 22





- EXCAVATION OF SURFACES & PAVEMENTS  
STA. 163+00, 150' RT TO 165+90, 32' RT  
4 INCH YELLOW LINE  
STA. 163+00 TO 168+75 (DASHED)  
REMOVING MEDIUM TREES (29 TOTAL)  
STA. 163+00 TO STA. 168+75, WITHIN L.O.D.  
CLEARING AND GRUBBING  
STA. 163+00 TO STA. 168+75, WITHIN L.O.D.  
RIP RAP, HEAVY TYPE &  
STONE FILL, TYPE II  
STA. 163+45, 59' LT TO 165+13, 166' LT  
SPECIAL PROVISION  
(REMOVE EMERGENCY CALL BOX)  
STA. 166+11, 9' LT  
SPECIAL PROVISION  
(THREE RAIL PEDESTRIAN FENCE)  
STA. 167+70, 8' LT TO 168+75, 8' LT  
SPECIAL PROVISION  
(STEEL BENCH)  
STA. 165+82, 156' LT  
STA. 166+32, 154' LT  
STA. 166+71, 139' LT

- NOTES:
- ALL IMPERVIOUS SURFACES WITHIN THE PROJECT LIMITS OF DISTURBANCE SHALL BE REMOVED PER TYPICAL SECTIONS UNLESS OTHERWISE NOTED
  - SEE SHEET 12 FOR SHORELINE ARMORING DETAILS

 = REMOVE EXISTING CONCRETE/BITUMINOUS SURFACE

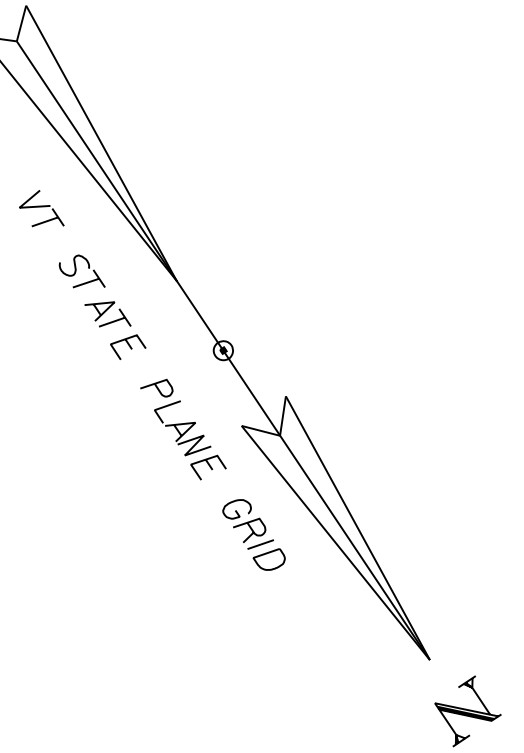
 = REMOVE TREE

SCALE 1" = 20'-0"  
20 0 20

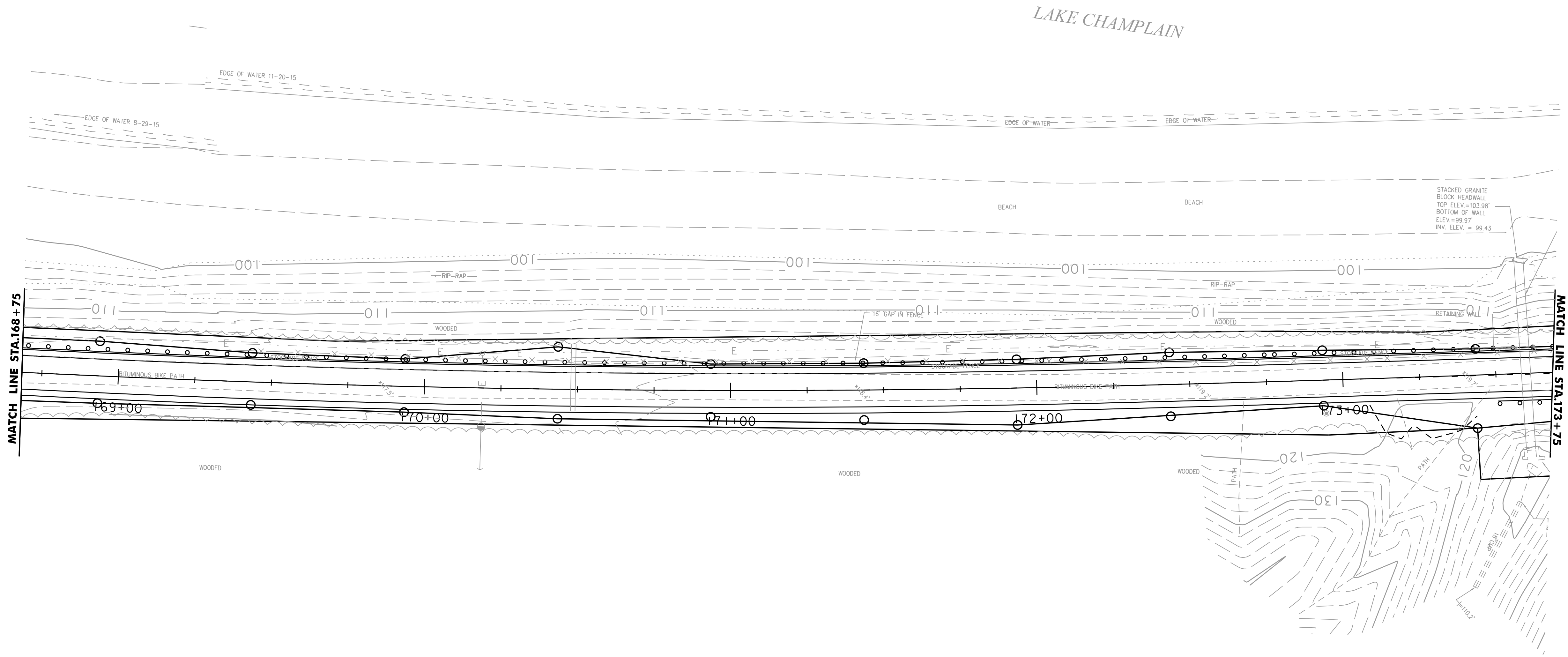


PROJECT NAME: BURLINGTON BIKE PATH	
PROJECT NUMBER: 57634.00	
FILE NAME: z57634bdr_nul.dgn	PLOT DATE: 3/23/2016
PROJECT LEADER: M.A. COLGAN	DRAWN BY: P.A. MILLER
DESIGNED BY: E.B. PARIZO	CHECKED BY: E.B. PARIZO
LAYOUT SHEET (7 OF 11)	SHEET 18 OF 22





4 INCH YELLOW LINE  
STA. 168+75 TO 173+75 @ (DASHED)  
SPECIAL PROVISION  
(THREE RAIL PEDESTRIAN FENCE)  
STA. 168+75 TO 173+75, 8' LT  
STA. 173+56 TO 173+75, 8.5' RT  
REMOVAL OF EXISTING FENCE  
STA. 168+75 TO 173+75, LT



SCALE 1" = 20'-0"  
20 0 20



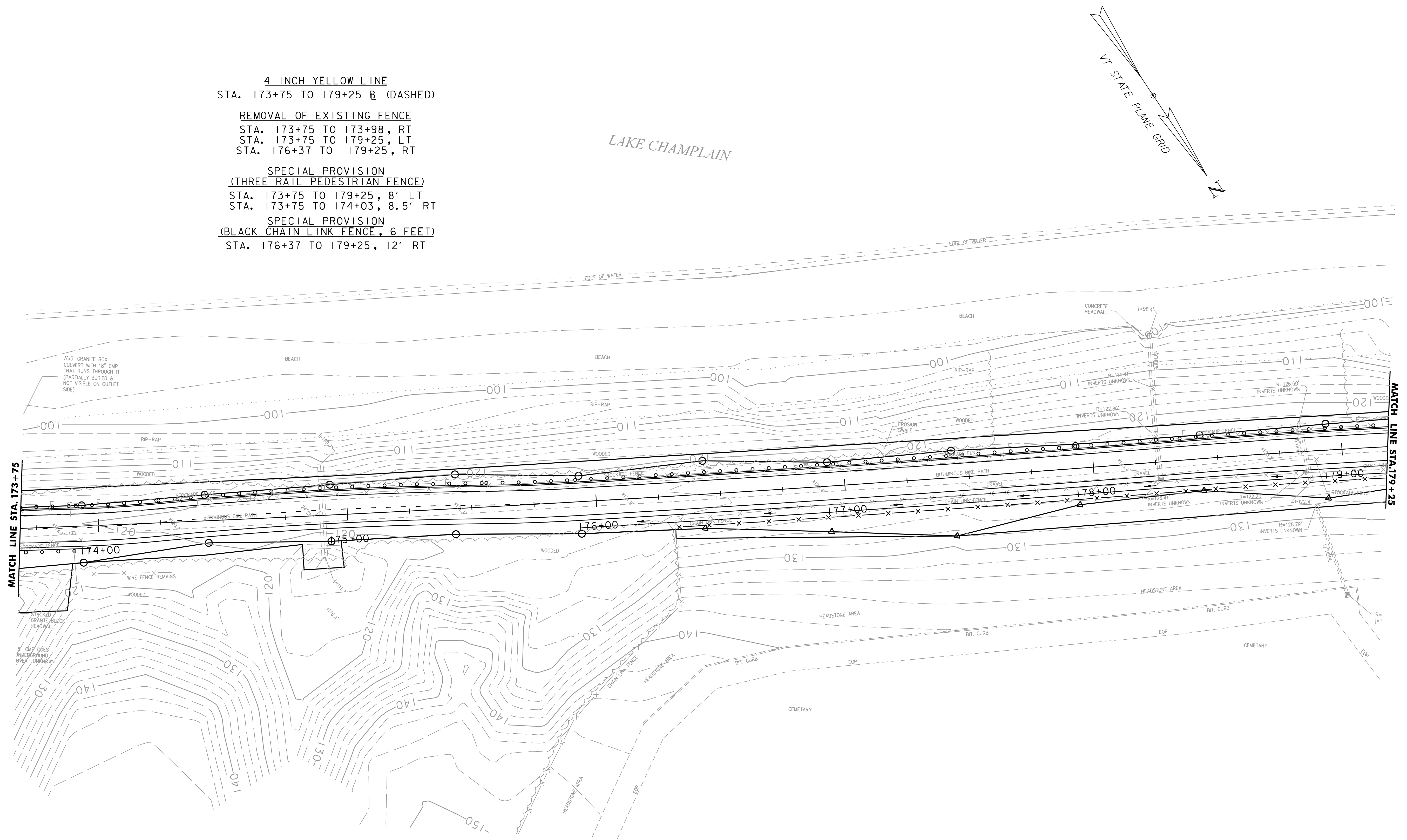
PROJECT NAME: BURLINGTON BIKE PATH	
PROJECT NUMBER: 57634.00	
FILE NAME: z57634bdr_nul.dgn	PLOT DATE: 3/23/2016
PROJECT LEADER: M.A. COLGAN	DRAWN BY: M.F. SUFFEL
DESIGNED BY: D. M. PECK	CHECKED BY: E.B. PARIZO
LAYOUT SHEET (8 OF 11)	SHEET 19 OF 22



4 INCH YELLOW LINE  
STA. 173+75 TO 179+25 (DASHED)  
REMOVAL OF EXISTING FENCE  
STA. 173+75 TO 173+98, RT  
STA. 173+75 TO 179+25, LT  
STA. 176+37 TO 179+25, RT

SPECIAL PROVISION  
(THREE RAIL PEDESTRIAN FENCE)  
STA. 173+75 TO 179+25, 8' LT  
STA. 173+75 TO 174+03, 8.5' RT

SPECIAL PROVISION  
(BLACK CHAIN LINK FENCE, 6 FEET)  
STA. 176+37 TO 179+25, 12' RT



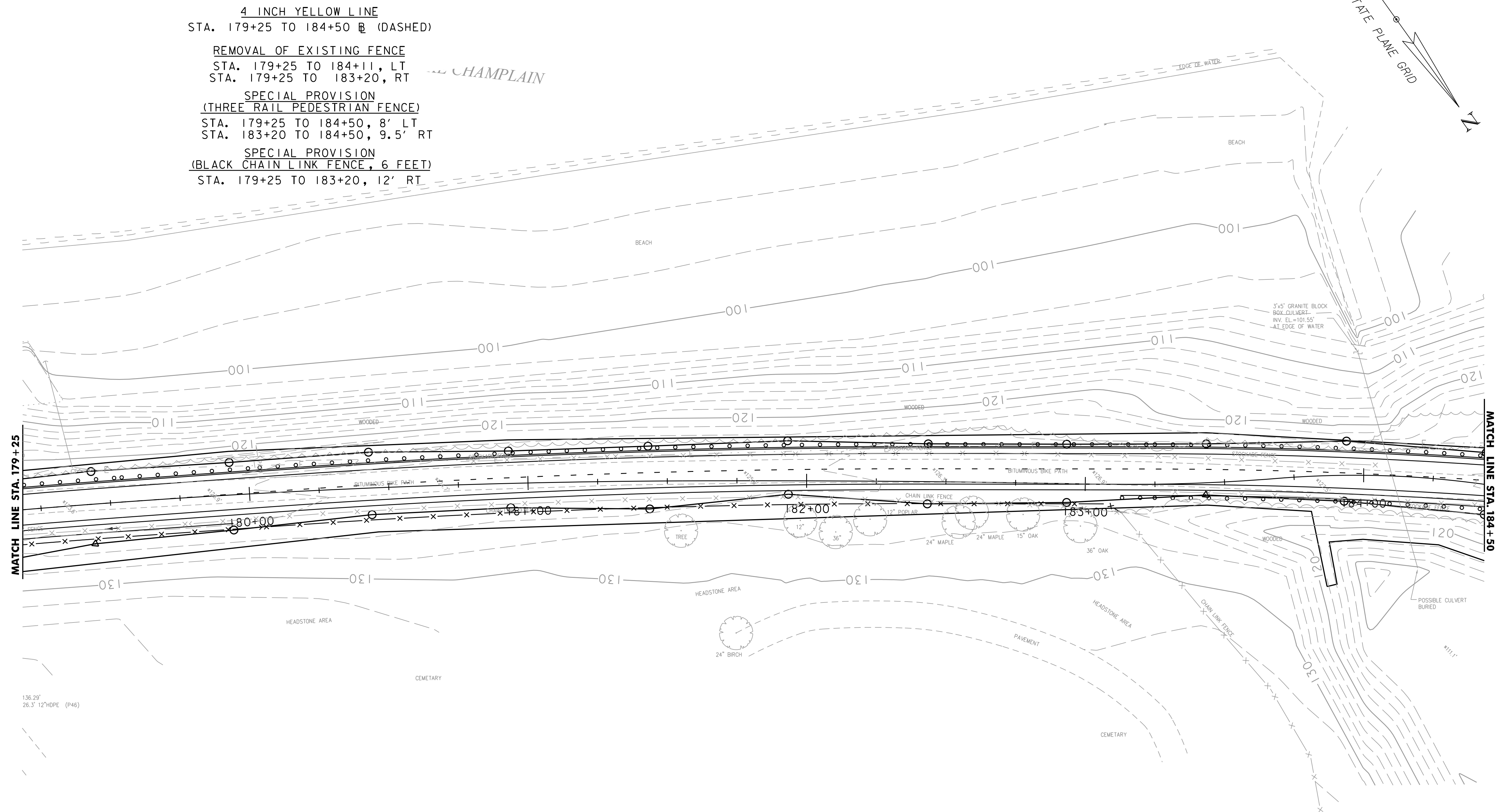
SCALE 1" = 20' - 0"  
20 0 20



PROJECT NAME: BURLINGTON BIKE PATH  
PROJECT NUMBER: 57634.00

FILE NAME: z57634bdr_nul.dgn	PLOT DATE: 3/23/2016
PROJECT LEADER: M.A. COLGAN	DRAWN BY: M.F. SUFFEL
DESIGNED BY: D.M. PECK	CHECKED BY: E.B. PARIZO
LAYOUT SHEET (9 OF 11)	SHEET 20 OF 22





SCALE 1" = 20'-0"  
20 0 20



PROJECT NAME: BURLINGTON BIKE PATH	
PROJECT NUMBER: PROJECT NUMBER	
FILE NAME: z57634bdr_nul.dgn	PLOT DATE: 3/23/2016
PROJECT LEADER: M.A.COLGAN	DRAWN BY: M.F.SUFFEL
DESIGNED BY: D.M.PECK	CHECKED BY: E.B. PARIZO
LAYOUT SHEET (10 OF 11)	SHEET 21 OF 22

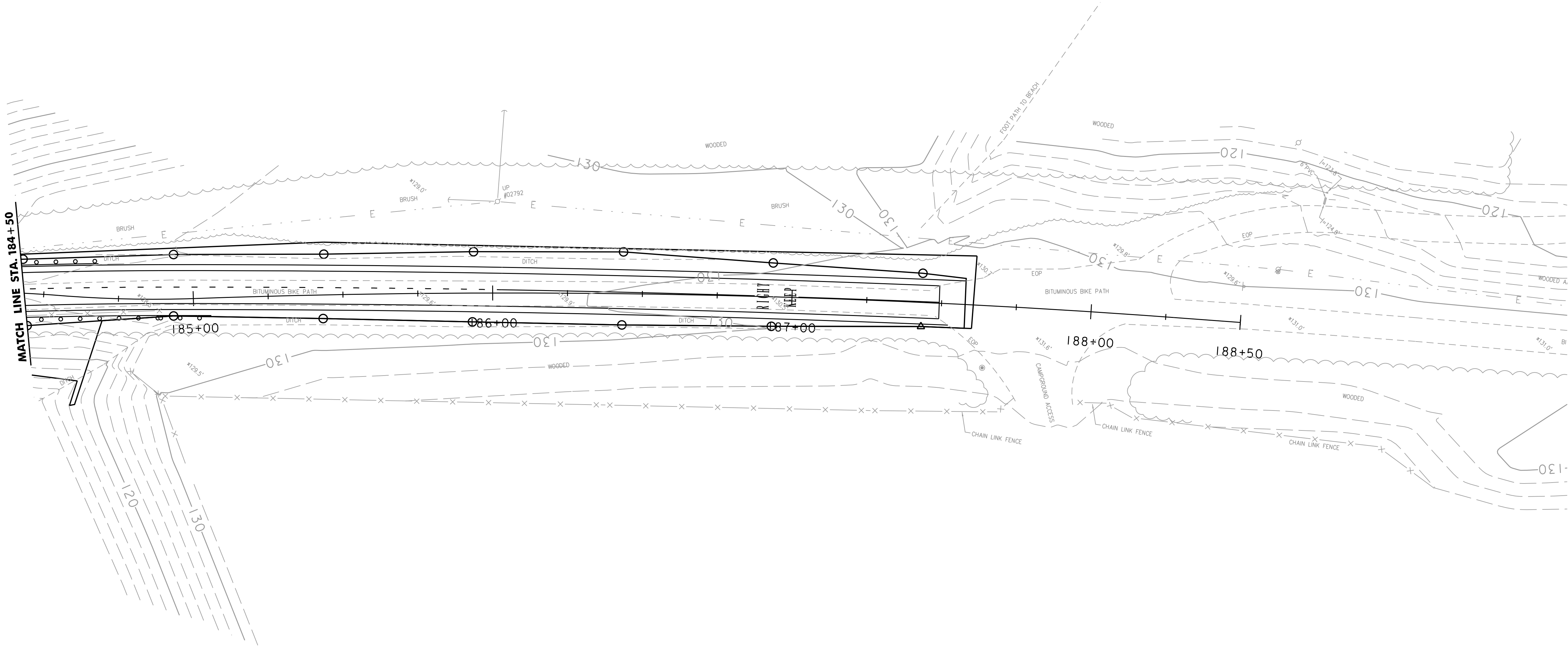
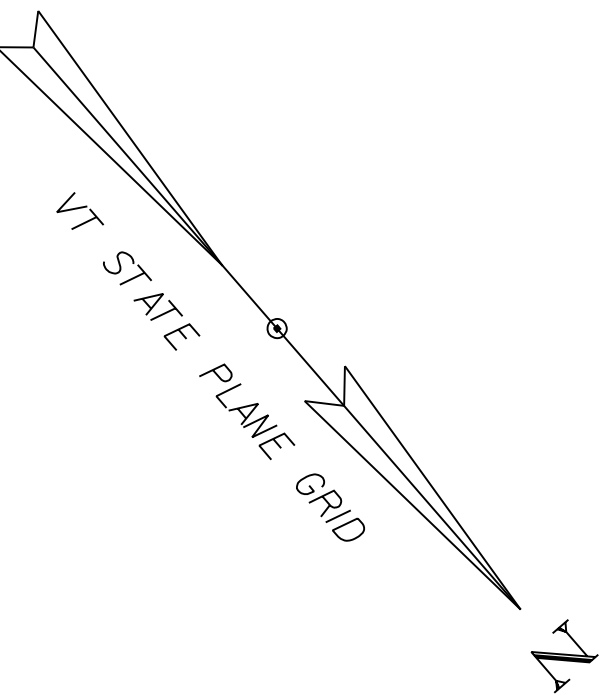


PAINT PAVEMENT MARKINGS ("KEEP RIGHT")  
STA. 186+95 TO 187+08, RT

4 INCH YELLOW LINE  
STA. 184+50 TO 186+08, RT (DASHED)  
STA. 186+08 TO 186+95, RT (SOLID)  
STA. 187+08 TO 187+65, RT (SOLID)

REMOVAL OF EXISTING FENCE  
STA. 184+50 TO 184+95, RT

SPECIAL PROVISION  
(THREE RAIL PEDESTRIAN FENCE)  
STA. 184+50 TO 184+75, 8' LT  
STA. 184+50 TO 185+12, 12' RT



SCALE 1" = 20'-0"  
20 0 20



PROJECT NAME: BURLINGTON BIKE PATH  
PROJECT NUMBER: 57634.00

FILE NAME: z57634bdr_nul.dgn  
PROJECT LEADER: M.A.COLGAN  
DESIGNED BY: D.M.PECK  
LAYOUT SHEET (11 OF 11)

PLOT DATE: 3/23/2016  
DRAWN BY: M.F.SUFFEL  
CHECKED BY: E.B. PARIZO  
SHEET 22 OF 22

## Department of Planning and Zoning

149 Church Street  
Burlington, VT 05401  
Telephone: (802) 865-7188  
(802) 865-7195 (FAX)  
(802) 865-7142 (TTY)

*David White, AICP, Director*  
*Meagan Tuttle, AICP, Comprehensive Planner*  
*Jay Appleton, Senior Programmer*  
*Scott Gustin, AICP, CFM, Principal Planner*  
*Mary O'Neil, AICP, Principal Planner*  
*Ryan Morrison, CFM, Associate Planner*  
*Anita Wade, Zoning Clerk*  
*Elsie Tillotson, Department Secretary*



TO: Development Review Board  
FROM: Scott Gustin *AG*  
DATE: April 19, 2016  
RE: 75 Grant Street; 16-0845AP

---

In regards to item 16-0845AP, appeal of a notice of zoning violation relative to unpermitted parking at 75 Grant Street, the appellant requests deferral of the public hearing.

SHEEHEY FURLONG & BEHM  
PROFESSIONAL CORPORATION

ATTORNEYS AT LAW

DAVID T. AUSTIN  
R. JEFFREY BEHM  
DEBRA L. BOUFFARD  
IAN P. CARLETON  
ARLINE P. DUFFY  
MICHAEL G. FURLONG  
KEVIN A. LUMPKIN  
DIANE M. MCCARTHY  
OWEN J. MCCLAIN  
MARK E. MELENDY  
RENEE L. MOBBS  
DAPHNE MORITZ  
CRAIG S. NOLAN  
JAMES W. SPINK  
PETER H. ZAMORE

30 MAIN STREET  
POST OFFICE BOX 66  
BURLINGTON, VERMONT 05401  
TELEPHONE (802) 864-9891  
FACSIMILE (802) 864-6815

18 ELM STREET  
WOODSTOCK, VERMONT 05091  
TELEPHONE (802) 457-9492  
FACSIMILE (802) 457-9158

WWW.SHEEHEYVT.COM

PAUL D. SHEEHEY (1919-2004)

VIA HAND DELIVERY  
April 4, 2016

City of Burlington  
Department of Planning and Zoning  
149 Church St  
Burlington, VT 05401

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APR 04 2016

Re: Zoning Permit Application/Request for Determination  
DEPARTMENT OF  
PLANNING & ZONING

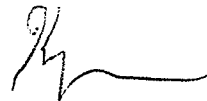
To Whom It May Concern:

Please find enclosed a Request to Postpone Hearing.

If you have any questions, please do not hesitate to contact me.

Sincerely yours,

SHEEHEY FURLONG & BEHM P.C.



Kevin A. Lumpkin, Esq.

Enclosure

KAL/cah

cc: Kimberlee Sturtevant, Esq (via email)

CITY OF BURLINGTON  
DEVELOPMENT REVIEW BOARD

RECEIVED

APR 04 2016

In re Appeal of  
75 Grant Street NOV

)  
)

Zoning Violation # 301663

DEPARTMENT OF  
PLANNING & ZONING

REQUEST TO POSTPONE HEARING

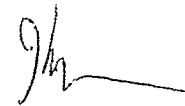
Appellant Priscilla Rassin Toomey, trustee of the Isabel Rassin Revocable Trust, hereby requests that her appeal of Zoning Violation # 301663, for 75 Grant Street, currently set to be heard by the Development Review Board (DRB) on April 19, 2016, be postponed until the next meeting of the DRB.

At the March 15, 2016 DRB hearing, the Board granted Appellant's request to postpone hearing on her appeal, and continued the agenda item to a date certain of April 19, 2016. Appellant has travel booked for that date to Europe to visit her daughter; modifying those travel plans would be onerous and expensive. For those reasons, Appellant requests that her appeal be heard at the May 3, 2016 DRB meeting.¹

Dated at Burlington, Vermont this 4th day of April, 2016.

SHEEHEY FURLONG & BEHM P.C.

By:



Kevin A. Lumpkin, Esq.  
30 Main Street, 6th Floor  
Burlington, VT 05401  
(802) 864-9891  
[klumpkin@sheeheyvt.com](mailto:klumpkin@sheeheyvt.com)

Attorneys for Appellant

¹ It is also worth noting Appellant continues to work with Planning & Zoning to obtain a permit for the use that is on appeal, and so hopes to avoid the need for this Board to hear the appeal all together.

## Department of Planning and Zoning

149 Church Street  
Burlington, VT 05401  
Telephone: (802) 865-7188  
(802) 865-7195 (FAX)  
(802) 865-7142 (TTY)

*David White, AICP, Director*  
*Meagan Tuttle, AICP, Comprehensive Planner*  
*Jay Appleton, Senior Programmer*  
*Scott Gustin, AICP, CFM, Principal Planner*  
*Mary O'Neil, AICP, Principal Planner*  
*Ryan Morrison, CFM, Associate Planner*  
*Anita Wade, Zoning Clerk*  
*Elsie Tillotson, Department Secretary*



TO: Development Review Board  
FROM: Scott Gustin *SG*  
DATE: April 19, 2016  
RE: 124 Sunset Cliff Rd; 16-0870AP

---

The notice of zoning violation relative to an unpermitted apartment at this property has been remedied (see attached). The pending appeal is now moot and should be dismissed by the Development Review Board.





**CODE ENFORCEMENT OFFICE**

645A Pine St, PO Box 100  
Burlington, VT 05402  
**VOICE (802) 863-0442**  
**FAX: (802) 652-0442**

**124 SUNSET CLIFF ROAD ZV # 298627 REMEDIED**

Violation Remedied April 5, 2016

April 12, 2016

JOSEPH AND ALTHEA KROGER  
124 SUNSET CLIFF ROAD  
BURLINGTON, VT 05408

RE: Zoning Violation #2986274 Located at 124 SUNSET CLIFF ROAD

Dear MR. KROGER:

On February 5, 2016 our office mailed you a Notice of Zoning Violation letter citing a change of use at property located at 124 Sunset Cliff Road: "reconfigure single family structure to include a second unit without zoning approval".

On March 21, 2016 you received zoning approval for an accessory unit to cure the zoning violation (ZP 16-0946CA). The appeal date of April 5, 2016 has surpassed; permit was not appealed. ZV#298627 has been remedied and removed from the City's land records.

Thank you for your timely attention in remedying the violation.

Should you have questions, don't hesitate to call me at 863-0442.

Sincerely,

A handwritten signature in black ink, appearing to read "Jeanne Francis".

Jeanne Francis  
Assistant Zoning Administrative Officer  
Code Compliance and Enforcement

CC: Planning/Zoning Files  
Land Records

gravel &  
shea | ATTORNEYS AT LAW

76 St. Paul Street  
Post Office Box 369  
Burlington, Vermont 05402-0369

Telephone 802.658.0220  
Facsimile 802.658.1456  
[www.gravelshea.com](http://www.gravelshea.com)

RECEIVED  
MAR 28 2016

DEPARTMENT OF  
PLANNING & ZONING

Matthew S. Stern  
Associate  
[mstern@gravelshea.com](mailto:mstern@gravelshea.com)

March 25, 2016

Austin Hart, Chair  
Burlington Development Review Board  
149 Church Street, City Hall  
Burlington, VT 05401

Re: 16-0870AP; 124 Sunset Cliff Road; Joseph Kroger – Request for Continuance

Dear Mr. Hart:

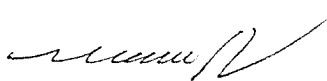
On February 19, 2016, Joseph Kroger filed a Notice of Appeal of Notice of Zoning Violation #298627 (“NOV”). A public hearing for the appeal has been scheduled for Tuesday, April 5, 2016. Concurrently with his appeal, Mr. Kroger also filed a Zoning Permit Application seeking after-the-fact approval for the accessory apartment that is the subject of the NOV. The Burlington Zoning Administrative Officer approved the permit on March 21, 2016. However, the permit is not final until the appeal period runs on April 5, 2016.

Because the appeal period for the Zoning Permit expires on the same day as the hearing for the NOV appeal, Mr. Kroger respectfully requests that the Development Review Board continue the hearing to the next available date. Provided the Zoning Permit is not appealed and becomes final, the NOV issue will be resolved and Mr. Kroger will withdraw his appeal.

Please contact me if you have any questions about this matter. Thank you.

Very truly yours,

GRAVEL & SHEA PC

  
Matthew S. Stern

MSS:nlt

cc: Mr. Scott Gustin (e-mail)



## Department of Planning and Zoning

149 Church Street, City Hall

Burlington, VT 05401-8415

Phone: (802) 865-7188

Fax: (802) 865-7195

[www.burlingtonvt.gov/pz](http://www.burlingtonvt.gov/pz)

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FEB 19 2016

DEPARTMENT OF  
PLANNING & ZONING

### Appeal of an Administrative Decision Request

Use this form to appeal any Administrative Decision or Notice of Violation - See Sec. 12.2.2 of the Zoning Ordinance.

SUBJECT LOCATION ADDRESS: 124 Sunset Cliff Road, Burlington, Vermont

Subject Property Owner: Joseph Kroger

Appellant: Joseph Kroger

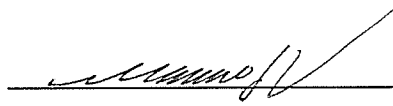
Agent/Representative: Matthew S. Stern, Esq., Gravel & Shea PC

Mailing Address: 76 St. Paul Street, 7th Floor, P.O. Box 369

City, St, Zip: Burlington, VT 05402-0369

Day Phone: 802-658-0220

Email: mstern@gravelshea.com

Appellant Signature: 

Date: 2/19/2016

In order for your request to be considered complete, **ALL** of the following information **must** be provided, as applicable:

- ☐ The Appeal **fee of \$250**;
- ☐ Description of the decision under appeal;
- ☐ Description of the property subject to the appeal;
- ☐ Reference to the regulatory provisions applicable to the appeal;
- ☐ Relief requested by the appellant;
- ☐ Alleged grounds why such requested relief is believed proper under the circumstances.

#### Office Use Only:

Check No. 114310

Amount Paid \$250.

Zoning Permit # 16-0870AP

BURLINGTON DEPARTMENT OF PLANNING AND ZONING  
DEVELOPMENT REVIEW BOARD

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FEB 19 2016

In re: Joseph Kroger )  
124 Sunset Cliff Road ) NOV #298627  
Burlington, VT 05408 )

DEPARTMENT OF  
PLANNING & ZONING

NOTICE OF APPEAL

Joseph Kroger, by his attorneys, Gravel & Shea PC, hereby appeals the Burlington Zoning Administrative Officer's Notice of Zoning Violation #298627, dated February 5, 2016 ("NOV").¹ In support of his appeal, Appellant states as follows:

1. Applicant/Appellant is Joseph Kroger. Mr. Kroger's address is 124 Sunset Cliff Road, Burlington, Vermont, 05408. Mr. Kroger may be contacted through counsel.
2. The property at issue is located at 124 Sunset Cliff Road, Burlington, Vermont. Parcel ID 030-3-012-000.
3. The NOV alleges that Appellant's property includes a second unit without zoning approval. A copy of the NOV is attached hereto as Exhibit 1.
4. The regulatory provisions at issue in this appeal include: Burlington Comprehensive Development Ordinance ("CDO") Articles 2, 3, 5, (including, but not limited to, Article 5, Part 3: Non-Conformities), 12; 24 V.S.A. § 4451; and 24 V.S.A. § 4454.
5. Appellant requests that the Development Review Board vacate the Administrative Officer's NOV and find that the second unit at issue is not subject to enforcement action

---

¹ Concurrently with this Notice of Appeal, Appellant is preparing a zoning application for after-the-fact change of use to permit the pre-existing second unit at issue in this NOV. Appellant is filing this Notice of Appeal to preserve all appeal rights provided by statute, 24 V.S.A. § 4465(a).

pursuant to 24 V.S.A. § 4454 and Sec. 5.3.2 of the CDO because it has existed for more than 15 years.

6. The Administrative Officer's findings in the NOV are in error on this issue.

7. Finding 3 in the NOV states that "[n]otification of a potential zoning violation was mailed to Owners on July 2, 2015; no response to letter."

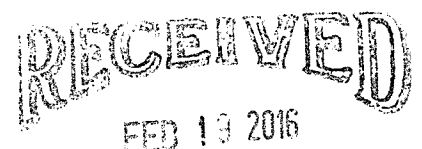
8. Appellant responded to the July 2, 2015 notice of potential zoning violation by letter dated July 7, 2015. In Appellant's response, he provided facts and information sufficient to demonstrate that the alleged violation has existed for more than 15 years. A copy of the July 2, 2015 notice and Appellant's July 7, 2015 response are attached hereto as Exhibit 2.

9. Specifically, Appellant stated that the property included a second unit apartment when he purchased it in 1994. The Uniform Residential Appraisal Report he obtained in 1994 identifies that the property included an apartment in use. *See* Exhibit 2. Appellant intends to provide a copy of the 1994 Uniform Residential Appraisal Report during the hearing held on this matter.

10. Appellant has continually rented the second unit as an apartment since 1994. *See* Exhibit 2.

11. Appellant has continually reported income from the rental of the second unit on his taxes from 1994 through 2014. *See* Exhibit 2.

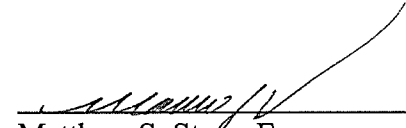
12. Based on the above and the information provided to the Department of Planning and Zoning on July 7, 2015 (Exhibit 2), Appellant has met his burden of proving that the second unit has been in continual use for more than 15 years. Therefore, the second unit is not subject to enforcement action pursuant to 24 V.S.A. § 4454 and Sec. 5.3.2 of the CDO.





WHEREFORE, Appellant requests that the Development Review Board vacate the  
Administrative Officer's NOV.

Dated: Burlington, Vermont  
February 19, 2016

  
Matthew S. Stern, Esq.  
Gravel & Shea PC  
76 St. Paul Street, 7th Floor, P. O. Box 369  
Burlington, VT 05402-0369  
(802) 658-0220  
mstern@gravelshea.com  
For Appellant

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DEPARTMENT OF  
PLANNING & ZONING



EXHIBIT

1

**CODE ENFORCEMENT OFFICE**

645A Pine St, PO Box 849  
Burlington, VT 05402-0849  
VOICE (802) 863-0442  
FAX: (802) 652-4221

**NOTICE OF ZONING VIOLATION (NOV)**

February 5, 2016

JOSEPH AND ALTHEA KROGER; 124  
SUNSET CLIFF ROAD  
BURLINGTON, VT 05408

Mailed Certified Mail 7013 3020 0001 6717 8084  
And FIRST CLASS MAIL

**NOTICE OF VIOLATION AT:**  
124 SUNSET CLIFF ROAD, BURLINGTON, VT  
TAX LOT #030-3-012-000

Zoning Violation# 298627

Dear Owners,

It has come to the attention of this office that a zoning violation exists at 124 Sunset Cliff Road.

**Description of Violation:** Change of use: reconfigure single family structure to include a second unit without zoning approval.

Burlington Comprehensive Development Ordinance (CDO) Article(s): 2, 3, 5, 12, and 24 VSA §4451.

Please be advised that violations of the CDO are subject to fines of up to two hundred dollars (\$200.00) for each day that a violation continues. You may submit an application to attempt correction of the violation, however, be advised application and filing fees are subject to a fee increase for permits required to correct a violation (see Violation Details Remedy Options #2 and CDO Section 2.7.8).

This correspondence serves as a formal notice of a zoning violation pursuant to 24 V.S.A §4451. You have seven (7) days from receipt of this notice to cure the referenced violation. Additional warnings for the violation are not required and will not be forthcoming. In the event that the violation is not cured or remedied as provided for in this notice, the City will pursue enforcement of the violation as provided for by law.

This NOV is a decision of the Asst. Zoning Administrative Officer, designee of the Burlington Zoning Administrator, may be appealed to the Development Review Board in accordance with the provisions of CDO Sections 2.7.11 and 12.2.2 provided that such appeal is filed within fifteen (15) days of the date of this February 5, 2016 NOV, and accompanied by the appropriate fee in accordance with Sec. 3.2.4(a) of the CDO. Appeal fee and complete application shall be filed with the City's Planning and Zoning Office (City Hall, 149 Church Street) by 4 pm on February 20, 2016; an appeal shall not be perfected until the fee is received.

If you have any questions, please call me at (802) 864-8518.

Sincerely,

Jeanne Francis  
Assistant Zoning Administrative Officer  
Code Compliance and Enforcement

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DEPARTMENT OF  
PLANNING & ZONING

Enclosures: Violation Details

Cc: Land Records for Tax Lot # 030-3-012-000

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FEB 19 2016

DEPARTMENT OF  
PLANNING & ZONING

124 Sunset Cliff Road Notice of Violation  
February 4, 2016  
Page 2 of 9

### VIOLATION DETAILS

**LOCATION:** 124 Sunset Cliff Road  
**DECISION DATE:** February 5, 2016  
**VIOLATION DESCRIPTION:** Change of use: reconfigure single family structure to include a second unit without zoning approval.

- FINDINGS:**
- July 1, 2015: Tenant at property reported air quality concerns to Code Enforcement Office; written Zoning Complaint issued.
  - Inspector responded to complaint with an inspection to property; accessory unit confirmed. Tenant informed inspector he had just signed a one-year lease and the previous tenant also had a one year lease. Tenant stated Owner lives in separate part of house, was on vacation, and provided inspector with Owner information. Lease for 124 Cliff Road between John Russo and Owner
  - Notification of a potential zoning violation was mailed to Owners on July 2, 2015; no response to letter
  - August 6, 2015 Code Inspector conducted a follow-up inspection; unit was not removed.
  - Aug 12, 2015 Code Inspector conducted another inspection and found the unit habitable.
  - Sept 3, 2015 Code Inspector met with Owner. Owner responded his attorney would respond to the zoning issue.
  - October 6, 2016 PW: spoke with property owner who indicated that the electrician (hired through Polli Construction) had completed the work just yesterday and that as a result of his explanation it appears the two units are wired independently for smoke/CO's. He reports that O'Neil Mechanical inspected both furnaces and both are current with tags. The accessory unit has been registered as a rental.
  - The property owner, Mr. Kroger, indicated that he had received a letter requesting information from P & Z and had returned that package months ago. Let him know that our office would follow up with PZ and make a determination as to whether it was an approved unit.
  - October 8, 2015 City Officials reviewed City Records and found Premises taxed as a single family home by City's Assessor's Office, City Planning/Zoning Office records show use of Premises as a single family unit, and City Public Works Office did not have records identify the use of Premises. No Municipal permits on file to add a second unit.
  - November 1, 2015 Owner submitted rental registration forms and fee.
  - January 8, 2016 follow-up inspection conducted by City Officials. Inspector verified

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FEB 13 2016

124 Sunset Cliff Road Notice of Violation  
February 4, 2016  
Page 3 of 9

DEPARTMENT OF  
PLANNING & ZONING

unit complied with City Housing Ordinance, however, a zoning application requesting approval for a second unit had not been submitted.

- To date Owner has not requested approval for the second unit.

**REMEDY** Within seven (7) days from receipt of this notice you may cure the violation by:  
**OPTIONS:**

1) – Removing the second unit noted above and restoring the Premises to its prior state. Upon completion (within the 7 days) you **MUST** inform the Code Enforcement Office so our office may verify compliance; or

2) - Obtaining zoning approval from the City's Department of Planning and Zoning for after-the-fact change of use: addition of a second unit to the existing single family (permit application fee is doubled if complete application is submitted within seven days from receipt of the NOV, tripled if a complete application is submitted 7-15 days from receipt of the NOV, or triple plus \$75 per hour of Code Enforcement staff time (up to \$500) if a completed application is submitted after 15 days from date of NOV receipt). See CDO Section 2.7.8. **PLEASE NOTE:** If the zoning permit request is denied, the violation is **NOT** cured. Owner shall be required to remove the violation as noted in #1 above or request an agreement as noted in #3 below within five (5) business days from date of the permit denial to remedy the violation; or

3) - Entering into an Agreement with the City of Burlington to extend deadlines in which to come into compliance with the City's ordinance (**administrative fees required**).

**APPEAL RIGHTS:** You have the right to appeal the enforcement officer's decision that a zoning violation exists on your property to the Development Review Board in accordance with the provisions of Articles 2.7.11 and 12.2.2 of the CDO within fifteen (15) days from the date of this notice. The deadline for filing an appeal is 4 pm on February 20, 2016. Submit a complete application with ZV# and appropriate fee to the Department of Planning and Zoning, accompanied by a memo stating the ZV#, the owner's name and address, a brief description of the property with respect to which the appeal is taken, a reference to the regulatory provisions applicable to that appeal, the relief you are requesting, and the alleged grounds why such relief is believed proper under the circumstances. *Failure to appeal constitutes admission that the violation exists, and the decision of the enforcement officer shall be binding 24 V.S.A §4472(d).*

**REGULATION** CDO Article(s): 2, 3, 5, 12 and 24 VSA §4451  
**CITATION:**

Cc: Planning/Zoning Office  
Land Records

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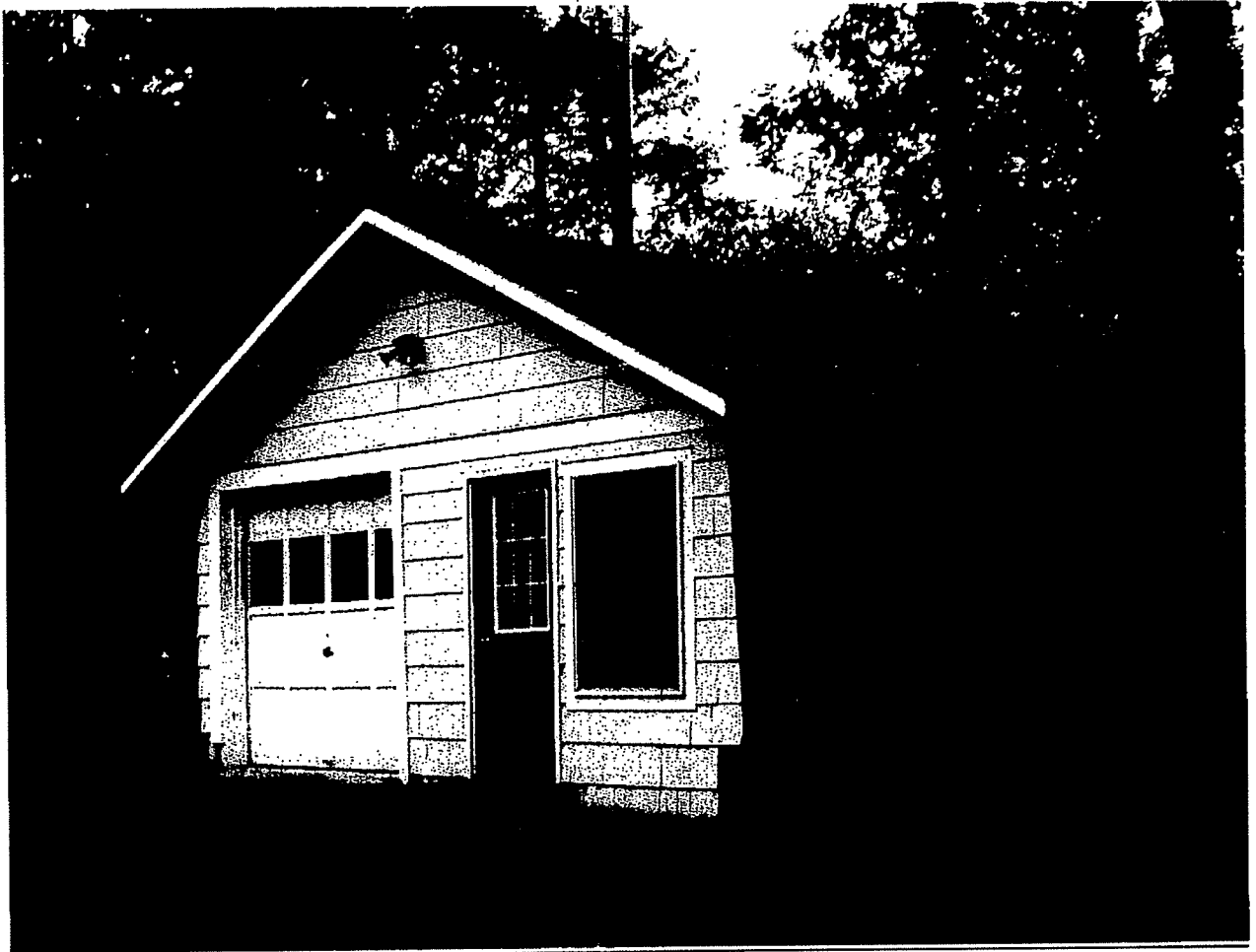
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DEPARTMENT OF  
PLANNING & ZONING

124 Sunset Cliff Road Notice of Violation

February 4, 2016

Page 4 of 8



Detached garage.



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124 Sunset Cliff Road Notice of Violation  
February 4, 2016  
Page 5 of 9



Car port is on the east side of structure. Owner enters his unit from this door. Tenant enters his unit from this door.

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124 Sunset Cliff Road Notice of Violation  
February 4, 2016  
Page 6 of 9



West looking east.

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124 Sunset Cliff Road Notice of Violation

February 4, 2016

Page 7 of 9

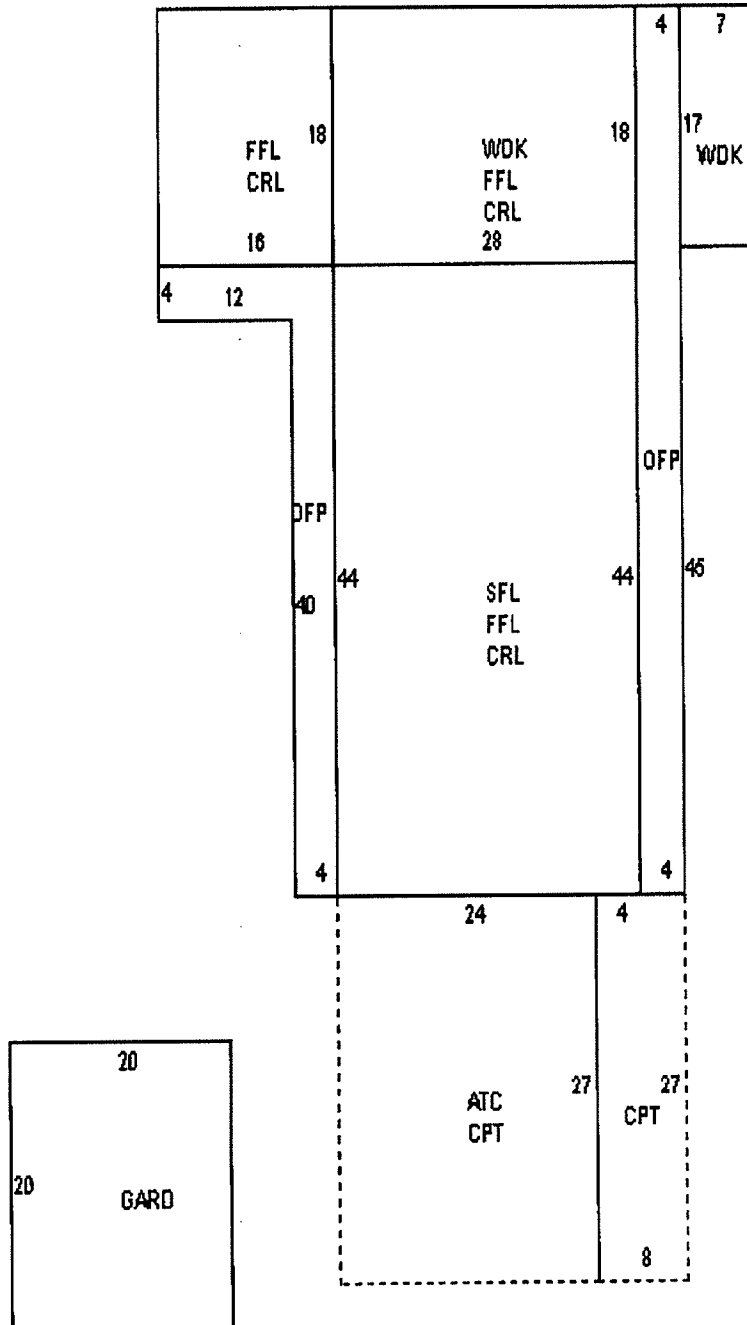


North elevation. Tenant resides in this area of the house (ie. accessory apartment).

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124 Sunset Cliff Road Notice of Violation  
February 4, 2016  
Page 8 of 9



Drawing from Assessor's Office: Following information from Assessor's Office

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PLANNING & ZONING

124 Sunset Cliff Road Notice of Violation  
February 4, 2016  
Page 9 of 9

Parcel ID 030-3-012-000 Address 124 SUNSET CL  
Owner(s) KROGER JOSEPH  
KROGER ALTHEA  
SPAN Number 114-035-13139 Land Use Single Family  
Mailing Address 124 SUNSET CLIFF ROAD, BURLINGTON, VT 05408

**Current Assessed Values**

Total Value \$687,900 Building Value \$223,000 Land Value \$464,900 Yard Items \$0

**Current Property Taxes**

Total Property Taxes \$16,903.24 HS-131 Yes Pct Business Pct Rental

(Tax information updated: 7/7/2015 9:30:17 AM)

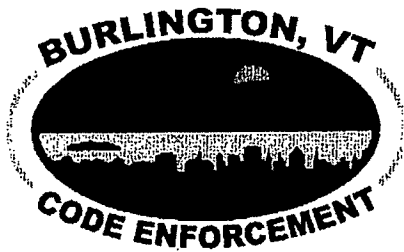
**Most Recent Sales Information**

Grantor	Sale Date	Sale Price	Book & Page
KROGER JOSEPH	3/9/1994	\$370,000	503-581
KROGER JOSEPH & ALTHEA	3/8/1994	\$123,333	503-579

**Property Details**

Grade	AVERAGE PLUS	Heat Type	SPACE HEAT	Heat Fuel	GAS
Acres	0.7121	Gross Area	8,287	Finished Area	3,645
Building Type	OLD STYLE	Year Built	1929	Units	1
Rooms	8	Bedrooms	4	Baths (Full/Half)	2 / 1
Zoning	RLW	Foundation	CB	Depreciation	36.32 %





EXHIBIT

2

**CODE ENFORCEMENT OFFICE**

645A Pine St, PO Box 849  
Burlington, VT 05402-0849

**VOICE (802) 863-0442**

**FAX: (802) 652-4221**

07-02-2015

**RECEIVED**

**FEB 13 2016**

JOSEPH KROGER  
ALTHEA LOUISE KROGER  
124 SUNSET CLIFF  
BURLINGTON VT 05408

**DEPARTMENT OF  
PLANNING & ZONING**

RE: 124 Sunset Cliff Road Burlington, Vermont

Dear Owners,

According to our records, you are the owner of record of the above-referenced property. This letter is to inform you that the Code Enforcement Office has received the following complaint(s) regarding this property:

- **Change of Use - established accessory apartment attached to Single Family House or converting to a Duplex without Zoning Approval.**

Our office has initiated an investigation regarding the complaint(s), however, as of this date; a final determination has not been made. Should you have any information that you believe will be useful to us during our investigation, please submit it to the Code Enforcement Office, **in written form, within the next ten (10) business days**.

This is your opportunity to provide information to refute the allegation(s) prior to our issuance of a formal determination and possibly a Notice of Violation. Information that may be helpful includes, but is not limited to, the following:

- Permits which document that the condition that is alleged to be in violation has been approved by the City.
- Photographs of the property and/or other documents (both current and historical with verifiable dates) that demonstrate the alleged violation does not exist, has been remedied, or has existed for more than 15 years.
- * • Affidavits from yourself and other persons who are aware of facts relevant to the allegation(s) that testify to the fact that the alleged violation does not exist, has been remedied, or has existed for more than 15 years.

Please note, while any information from you as the property owner is useful, the investigation will occur with or without the information. This letter is intended to give you notice of the alleged complaint(s) against your property and to provide you an opportunity to refute the allegation prior to a formal determination being issued.

Should you have questions, please don't hesitate to call me at 863-0442.

Sincerely,

Jeanne Francis, Zoning Specialist

Information available in alternative media forms for people with disabilities.  
For disability access information call (802) 865-7121 or (802) 863-0450 TTY.  
An Equal Opportunity Employer

Joseph Kroger  
124 Sunset Cliff Rd  
Burlington VT 05408  
July 7, 2015

RECEIVED  
FEB 13 2016

Code Enforcement Office  
645A Pine St. PO Box 849  
Burlington VT 05402-0849

Dear Jeanne Francis, Zoning Specialist

DEPARTMENT OF  
PLANNING & ZONING

I am writing in response to your letter of July 2 in which you refer to a "Change of Use—established accessory apartment to Single Family House or converting to a Duplex without Zoning Approval."

**There has never been a "change of use" as you describe at my home at 124 Sunset Cliff Rd.** In fact, one of the reasons my wife and I decided to purchase the house in March 1994 (**addressed at that time as "2 Sunset Cliff Rd"**) was because there was **already an apartment** located in the back of the house with two separate and independent entrances (one off the apartment living room and the other off the apartment kitchen). I am submitting a copy of the "Uniform Residential Appraisal Report" we received at that time which mentions that the house included **an apartment in use.**

[Sometime around 1999-2000, the city of Burlington renumbered all the houses on Sunset Cliff Rd. 2 Sunset Cliff Rd. became 124 Sunset Cliff Rd. From that time on there is no other "2 Sunset Cliff Rd". All references to "2 Sunset Cliff Rd. refer to my house 124 Sunset Cliff Rd. I emphasize this because it has been the source of some confusion.]

When my wife and I asked at City Hall if we could continue using the three rooms in the back of the house (living room, kitchen, bedroom and bathroom) as an apartment, we were told yes, because the apartment had been in use for many years it was "grandfathered in" and we did not need to apply again for additional zoning approval. I have no document to prove this conversation. However, I do have

113

FEB 19 2016

DEPARTMENT OF  
PLANNING & ZONING

several documents which show that a few months after we purchased the house in March 1994, **specifically in August 1994, we began renting the apartment, and have continued to rent the apartment every year for the past twenty-one years, six years longer than the 15 year term referenced in your letter.**

In addition to this letter I am submitting the following documents which testify to "the fact that the alleged violation does not exist, has been remedied, or **has existed for more than 15 years.**"

1. The "Uniform Residential Appraisal Report" we were given in 1994 which mentions the "apartment in use".
2. A list of the renters each year for the past 22 years and the amount of rent collected. The renters have almost all been medical or graduate students at UVM.
3. Copy of a letter from Emily Trask-Eaton (a med student who rented in 1997-1998 (18 years ago) sent to us which mentions the apartment she was renting.
4. Copy of an email sent by Karen Halle (a med student who rented from 1999 to 2003) on my behalf in which she mentions renting the apartment.
5. **Copies of the schedule E (Form 1040) which I filed for the past twenty-one years with the IRS from 1994 to 2014 reporting the income I received from the rental of the apartment at 2 Sunset Cliff Rd (aka 124 Sunset Cliff Rd.)**
6. A letter from my tax accountant, James R. Bessette, who prepared all the IRS tax forms referenced above and submitted to you, testifying to the fact that I have been renting the apartment at 2 Sunset Cliff Rd (aka 124 Sunset Cliff Rd) for the past twenty-one years.

Sincerely,

Joseph Kroger

**James R. Bessette, CPA, P.C.**  
Certified Public Accountants

james@bessette.com  
www.james.bessette.com  
fax (802) 861-4201

89-A Ethan Allen Drive  
South Burlington, VT 05403  
(802) 861-4200

July 7, 2015

Ms. Jeanne Francis  
Zoning Specialist  
Code Enforcement Office  
645A Pine Street  
PO Box 849  
Burlington, VT 05402-0849

RECEIVED  
FEB 13 2016

DEPARTMENT OF  
PLANNING & ZONING

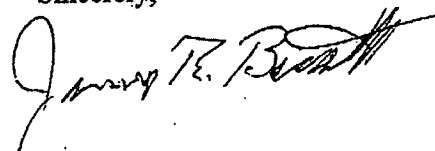
Dear Ms. Francis,

Mr. Joseph Kroger asked that I communicate with you concerning the apartment in the house located at 124 Sunset Cliff Road, Burlington, VT.

I have known Joseph Kroger for approximately thirty years. I have helped him prepare his tax returns since 1987. In 1994 Joseph and Althea purchased their residence and apartment, now known as 124 Sunset Cliff Road. In August of that year they rented the apartment, and have continuously rented it since that time.

If you have any further questions regarding this matter, please don't hesitate to contact me.

Sincerely,



James R Bessette, CPA

**SCHEDULE E**  
**(Form 1040)**

Department of the Treasury  
Internal Revenue Service (7)

**Supplemental Income and Loss**  
(From rental real estate, royalties, partnerships,  
S corporations, estates, trusts, REMICs, etc.)

▶ Attach to Form 1040 or Form 1041. ▶ See instructions for Schedule E (Form 1040).

OMB No. 1545-

**1994**

Attachment  
Sequence No.

Name(s) shown on return

Your social security number

**Joseph W. and Althea L. Kroger**

**Part I** **Income or Loss From Rental Real Estate and Royalties** Note: Report income and expenses from your business of personal property on Schedule C or C-EZ (see page E-1). Report farm rental income or loss from Form 4835 on page 2, line 39.

1	Show the kind and location of each rental real estate property:	2	For each rental real estate property listed on line 1, did you or your family use it for personal purposes for more than the greater of 14 days or 10% of the total days rented at fair rental value during the tax year? (See page E-1.)	Yes
A	Apartment 2 Sunset Cliffs Burlington, VT			
B				
C				

Income:		Properties			Totals
		A	B	C	(Add columns A, B, C)
3	Rents received .....	2,588			2,588
4	Royalties received .....				
<b>Expenses:</b>					
5	Advertising .....				
6	Auto and travel (see page E-2) .....				
7	Cleaning and maintenance .....				
8	Commissions .....				
9	Insurance .....	125			125
10	Legal and other professional fees .....				
11	Management fees .....				
12	Mortgage interest paid to banks, etc. (see page E-2) .....	1,633			1,633
13	Other interest .....				
14	Repairs .....				
15	Supplies .....				
16	Taxes .....	652			652
17	Utilities .....	135			135
18	Heating fuel .....	94			94
	Cable .....	115			115
	Trash removal .....	24			24
	Water .....	25			25
	Amortization .....	46			46
19	Add lines 5 through 18 .....	2,849			2,849
20	Depreciation expense or depletion (see page E-2) .....	1,118			1,118
21	Total expenses. Add lines 19 and 20 .....	3,967			3,967
22	Income (loss) from rental real estate or royalty properties. Subtract line 21 from 3 (rents) or 4 (royalties). If result is (loss), see page E-2 to find out if you must file Form 6198 .....	-1,379			-1,379
23	Deductible rental real estate loss .....	1,379			1,379
24	Income. Add positive amounts shown on line 22. Do not include any losses .....				
25	Losses. Add royalty losses from line 22 and rental real estate losses from line 23. Enter the total losses here .....				
26	Total rental real estate and royalty income or (loss). Combine lines 24 and 25. Enter the result here. If Parts II, III, IV, and line 39 on page 2 do not apply to you, also enter this amount on Form 1040, line 17. Otherwise, include this amount in the total on line 40 on page 2 .....				-1,379

For Paperwork Reduction Act Notice, see Form 1040 Instructions.

Schedule E (Form 1040)



**SCHEDULE E**  
**(Form 1040)**

Department of the Treasury  
Internal Revenue Service (99)  
Name(s) shown on return

**Supplemental Income and Loss**

(From rental real estate, royalties, partnerships, S corporations, estates, trusts, REMICs, etc.)

▶ Attach to Form 1040, 1040NR, or Form 1041.

▶ Information about Schedule E and its separate instructions is at [www.irs.gov/schedulee](http://www.irs.gov/schedulee).

OMB No. 1545-0074

**2014**

Attachment  
Sequence No. **13**

Your social security number

**Joseph W Kroger**

**Part I** Income or Loss From Rental Real Estate and Royalties Note. If you are in the business of renting personal property, use Schedule C or C-EZ (see instructions). If you are an individual, report farm rental income or loss from Form 4835 on page 2, line 40.

A Did you make any payments in 2014 that would require you to file Form(s) 1099? (see instructions)

☐ Yes ☐ No

B If "Yes," did you or will you file required Forms 1099?

☐ Yes ☐ No

**1a** Physical address of each property (street, city, state, ZIP code)  
**A** 124 Sunset Cliff Road Burlington VT 05401  
**B** 1 Ocean Terrace 350 St. Augustine FL 32080  
**C** ROYALTIES

<b>1b</b>	Type of Property (from list below)	<b>2</b> For each rental real estate property listed above, report the number of fair rental and personal use days. Check the QJV box only if you meet the requirements to file as a qualified joint venture. See instructions.	Fair Rental Days	Personal Use Days	QJV
<b>A</b>	2		365	0	<input type="checkbox"/>
<b>B</b>	1		365	0	<input type="checkbox"/>
<b>C</b>	6				<input type="checkbox"/>

**Type of Property:**

- 1 Single Family Residence      3 Vacation/Short-Term Rental      5 Land      7 Self-Rental  
2 Multi-Family Residence      4 Commercial      6 Royalties      8 Other (describe)

Income:	Properties:	A	B	C
<b>3</b> Rents received	<b>3</b>	7,700	27,565	
<b>4</b> Royalties received	<b>4</b>			101
<b>Expenses:</b>				
<b>5</b> Advertising	<b>5</b>			
<b>6</b> Auto and travel (see instructions)	<b>6</b>			
<b>7</b> Cleaning and maintenance	<b>7</b>		125	
<b>8</b> Commissions	<b>8</b>			
<b>9</b> Insurance	<b>9</b>	274	627	
<b>10</b> Legal and other professional fees	<b>10</b>	150	150	
<b>11</b> Management fees	<b>11</b>		5,099	
<b>12</b> Mortgage interest paid to banks, etc. (see instructions)	<b>12</b>	2,387		
<b>13</b> Other interest	<b>13</b>			
<b>14</b> Repairs	<b>14</b>	2,654	210	
<b>15</b> Supplies	<b>15</b>		623	
<b>16</b> Taxes	<b>16</b>	3,254	2,916	
<b>17</b> Utilities	<b>17</b>	1,382	1,704	
<b>18</b> Depreciation expense or depletion	<b>18</b>	4,004	3,542	
<b>19</b> Other (list) ▶ <u>Statement #2</u>	<b>19</b>	1,122	7,911	
<b>20</b> Total expenses. Add lines 5 through 19	<b>20</b>	15,227	22,907	
<b>21</b> Subtract line 20 from line 3 (rents) and/or 4 (royalties). If result is a (loss), see instructions to find out if you must file Form 6198	<b>21</b>	(7,527)	4,658	101
<b>22</b> Deductible rental real estate loss after limitation, if any, on Form 8582 (see instructions)	<b>22</b>	(5,063)		
<b>23a</b> Total of all amounts reported on line 3 for all rental properties	<b>23a</b>		35,265	
<b>b</b> Total of all amounts reported on line 4 for all royalty properties	<b>23b</b>		101	
<b>c</b> Total of all amounts reported on line 12 for all properties	<b>23c</b>		2,387	
<b>d</b> Total of all amounts reported on line 18 for all properties	<b>23d</b>		7,546	
<b>e</b> Total of all amounts reported on line 20 for all properties	<b>23e</b>		38,134	
<b>24</b> Income. Add positive amounts shown on line 21. Do not include any losses	<b>24</b>		4,759	
<b>25</b> Losses. Add royalty losses from line 21 and rental real estate losses from line 22. Enter total losses here	<b>25</b>	(5,063)		
<b>26</b> Total rental real estate and royalty income or (loss). Combine lines 24 and 25. Enter the result here. If Parts II, III, IV, and line 40 on page 2 do not apply to you, also enter this amount on Form 1040, line 17, or Form 1040NR, line 18. Otherwise, include this amount in the total on line 41 on page 2	<b>26</b>		(304)	

For Paperwork Reduction Act Notice, see the separate instructions.

Schedule E (Form 1040) 2014

EEA

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FEB 19 2016

DEPARTMENT OF

## Anita Wade

---

**From:** Tim Banks <vtbreak@gmail.com>  
**Sent:** Tuesday, April 12, 2016 4:02 PM  
**To:** Scott Gustin; Anita Wade  
**Subject:** DRB April 19 meeting comment

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

This is a comment for the 4/19 Development Review Board meeting concerning 75 Grant Street parking.

I am a neighbor on Grant Street and for at least the past 5 years, I've noticed cars parking on the grass on the side of the house at 75 Grant. It doesn't look like it really is a part of the driveway or a proper place to park, since they have never done anything to maintain it. It looks bad and make the area full of mud.

The area should either be maintained as lawn or maintained as parking. Currently it is not being maintained at all.

thanks  
Tim

**Subject:** 451 Ethan Allen Parkway  
**Date:** Tue, Apr 12, 2016 1:54 pm

**RECEIVED**  
APR 12 2016

Austin Hart  
Burlington Development Review Board  
City Hall, 149 Church Street  
Burlington, VT 05401

DEPARTMENT OF  
PLANNING & ZONING

Dear Mr. Hart,

I would like to tell you why, at the last DRB meeting on April 5, 2016, there were no residents from the New North End to speak to their request to reopen the 451 Ethan Allen Parkway plat review hearing of March 7, 2016.

We understood from conversations and emails from the PZC that there was nearly no chance of the request being included in the agenda and, therefore, no reason for the residents making the request to attend the meeting. In addition, we noted that the request was not on the formal emailed agenda.

I was watching the live Channel 17 broadcast of the April 5th meeting and was surprised when the last item under "Public Hearing" was our request to be included in the meeting, and I was dismayed to see none of our group in the audience. You seemed to be surprised, too, at there being no one from the neighborhood in attendance, and you remarked that it was "a problem." You asked why the request had been made, and Scott Gustin said our group had alleged that there had been no proper notice of the March 7th meeting. He indicated that correspondence subsequently made unfounded concerns that could not be related. After this short discussion, you said the board had no other choice but to deny the request, and you made the motion to deny. However, you stated that because the agenda had been changed around at the beginning of the meeting so that the hearings would be later in the agenda, then maybe some North End folks might show up and could state their concerns. Following this item, you withdrew from the rest of the meeting (for reasons given at the beginning).

I was able to leave home and arrive at the meeting while the sketch plan was being discussed, and immediately after that the meeting was adjourned. It was disappointing to realize that the people of the New North End who were being affected by the 451 Ethan Allen plan were to have been denied any input in either the March 7th or the April 5th meetings. I felt that it was being implied that we were lying about the meeting notice for the March 7th meeting and were bringing up unrelated issues to bolster our case. There certainly are sufficient strikes against this project going forward (and indeed, it has been turned down for good cause twice before, so we aren't making up negatives).

Currently the adjoining neighbors group have filed an appeal at the Environmental Court, with a hearing to be scheduled during the next 30 days.

Sincerely yours,

Anne Scheffler  
4 Moore Drive  
Burlington, VT 05408  
(802) 540-0852



Encl.

## Department of Planning and Zoning

149 Church Street  
Burlington, VT 05401  
Telephone: (802) 865-7188  
(802) 865-7195 (FAX)  
(802) 865-7142 (TTY)

*David White, AICP, Director  
Meagan Tuttle, AICP, Comprehensive Planner  
Jay Appleton, GIS Manager  
Scott Gustin, AICP, CFM, Principal Planner  
Mary O'Neil, AICP, Principal Planner  
Ryan Morrison, CFM, Associate Planner  
Anita Wade, Zoning Clerk  
Elsie Tillotson, Department Secretary*



**TO:** Development Review Board  
**FROM:** Scott Gustin *SG*  
**DATE:** April 19, 2016  
**RE:** 15-0339VR; 31 North Avenue

---

**Note: These are staff comments only; decisions on projects are made by the Development Review Board, which may approve, deny, table or modify any project. THE APPLICANT OR REPRESENTATIVE MUST ATTEND THE MEETING.**

Zone: RM-W                      Ward: 3

Owner/Representative: Cynthia Wheelock Smith

**Request:** Time extension request for approved variance from front yard setback on existing vacant lot.

### **Applicable Regulations:**

Article 3 (Applications, Permits, & Project Reviews)

### **Background Information:**

The applicant is seeking a time extension for a variance granted October 24, 2014. The variance approved granted relief from the applicable front yard setback on an existing vacant lot. The subject property fronts on Depot Street, but all of its neighboring properties front on both North Avenue and Depot Street. The buildings on these neighboring properties are set close to North Avenue and relatively far from Depot Street and, therefore, create a prohibitive front yard setback requirement for the subject property.

No changes are included in this proposal. Only a time extension is sought.

Previous zoning actions for this property are as follows:

- 10/24/14, Approval of variance from front yard setback
- 12/18/97, Application for, and subsequent withdrawal of, permit to construct home

**Recommendation:** Consent approval as per, and subject to, the following findings and conditions:

### **I. Findings**

#### **Article 3: Applications, Permits and Project Reviews**

##### **Section 3.2.9 Zoning Permits**

##### **(d) Time Limit on Zoning Permits**

*Notwithstanding (e) and (f) below, a zoning permit shall become invalid unless the work or action authorized commences within one (1) year after the date of final decision. All work or action*

*authorized there under shall be completed, and a Final Zoning Certificate of Occupancy received, within two (2) years of the date of decision unless a written extension of time not to exceed one (1) year is grant in advance by the administrative officer. Extensions of time for a zoning permit issued in connection with a conditional use or variance shall require approval by the DRB after a public hearing.*

The application for a time extension is subject to review by the Development Review Board as a variance application. The request for an extension was filed in a timely manner, and eligible for consideration under this standard. The variance approval included no construction work and was valid for a period of 2 years. The variance simply enabled encroachment into the front yard setback for development to be reviewed under separate permit. Since the variance was approved in October 2014, site assessment work has been done, but no permit application has yet been filed. As requested, a 1-year time extension may be granted. **(Affirmative finding)**

## **II. Conditions of Approval**

1. Except as modified in this 1-year time extension, all conditions of approval of the original variance dated October 24, 2014 shall remain in effect.
2. This 1-year time extension makes the variance approval valid until October 24, 2017.





## Department of Planning and Zoning

149 Church Street, City Hall  
Burlington, VT 05401-8415  
Phone: (802) 865-7188  
Fax: (802) 865-7195

[www.burlingtonvt.gov/pz](http://www.burlingtonvt.gov/pz)

RECEIVED

MAR 02 2015

DEPARTMENT OF  
PLANNING & ZONING

### Time Extension Request

Use this form to request a one year time extension on any valid zoning permit.  
Permits that were administratively approved can have time extension requests administratively reviewed and there is no fee.  
Permits that were reviewed by the Development Review Board, require a public meeting and there is a \$150 fee for the request to cover time and expenses for public notices.

PROJECT LOCATION ADDRESS: 31 NORTH AVENUE

#### PROPERTY

OWNER*: CYNTHIA WHEELLOCK SMITH

*If condominium unit, written approval from the Association is also required

POSTAL ADDRESS: 10 ASCOT LANE

CITY, ST, ZIP: UXBRIDGE, MA 01569

DAY PHONE: 401-529-2845

EMAIL: cindy5@isp.com

SIGNATURE: Cynthia Wheellock Smith

I am the owner and I duly authorize the owner's representative (if applicable) to act on my behalf for all matters pertaining to this zoning permit application.

#### OWNER'S

REPRESENTATIVE: _____

POSTAL ADDRESS: _____

CITY, ST, ZIP: _____

DAY PHONE: _____

EMAIL: _____

SIGNATURE: _____

Zoning Permit Number: 15-0339 VR

Summary of Approved Permit Description: _____

VARIANCE FROM FRONT YARD ON EXISTING VACANT LOT

Summary of current status of project: PROFESSIONALLY SURVEYED AND FILED.

BUILDER CONSULTED, ENGINEERING FIRMS CONSULTED, TOPOGRAPHICAL

ORDERED, DELAYS DUE TO FAMILY ILLNESS.

- Please ask for assistance if you have any questions about filling out this form. Call the Planning and Zoning at 802-865-7188, or visit the office in the lower level of City Hall, 149 Church Street.

#### Office Use Only:

Check No. 4976

Amount Paid \$150.

Zoning Permit #

15-0339 VR

## **Burlington Development Review Board**

149 Church Street, City Hall

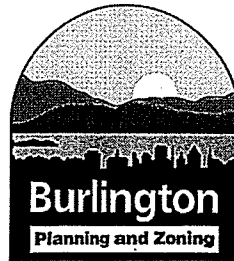
Burlington, VT 05401

[www.burlingtonvt.gov/PZ/Boards/Development-Review-Board](http://www.burlingtonvt.gov/PZ/Boards/Development-Review-Board)

Phone: (802) 865-7188

Fax: (802) 865-7195

Austin Hart  
Michael Long  
Jonathan Stevens  
Brad Rabinowitz  
Missa Aloisi  
Israel Smith  
AJ LaRosa  
Alexandra Zipparo (Alt.)



## **Burlington Development Review Board**

### **Minutes/Findings of Fact**

**October 24, 2014**

**In RE:** 15-0339VR; 31 North Ave. (Ward 3, RM-W) (Tax Lot No. 043-3-188-000)

**Owner/Representative:** Cynthia Wheelock Smith

**Request:** Variance from front yard setback on existing vacant lot

#### **Members Present:**

Austin Hart  
Jonathan Stevens  
Michael Long  
Brad Rabinowitz  
Israel Smith  
AJ LaRosa

#### **Evidence Presented:**

The Board examined the materials submitted in support of this request.

### **I. FINDINGS**

#### **Background Information:**

The applicant is seeking a variance from the applicable front yard setback on an existing vacant lot. The subject property fronts on Depot Street, but all of its neighboring properties front on both North Avenue and Depot Street. The buildings on these neighboring properties are set close to North Avenue and relatively far from Depot Street and, therefore, create a prohibitive front yard setback requirement for the subject property.

No development is included in this application. The variance is sought as a precursor to a potential single family home to be filed under separate permit application if the variance is granted.

Previous zoning actions for this property are as follows:

- 12/18/97, Application for, and subsequent withdrawal of, permit to construct home

#### **Article 12: Variances and Appeals**

##### ***Sec. 12.1.1 Variances***

*(a) That there are unique physical circumstances or conditions, including irregularity, narrowness, or shallowness of lot size or shape, or exceptional topographical or other physical conditions peculiar to the particular property, and that unnecessary hardship is due to such conditions, and not the circumstances or conditions generally created by the provisions of the zoning regulation in the neighborhood or district in which the property is located.*

The lot is small at just 4,180 sf and 44' of road frontage. The lot is also steeply pitched except for the upper, easternmost end. The requested variance, however, does not relate to these particular characteristics. The subject property is the only one along the eastern side of Depot Street that does not also front on North Avenue. The buildings on these other properties are set close to North Avenue with relatively deep setbacks from Depot Street. The variance is requested because of the way the front yard setback is calculated per Table 4.4.5-3: *Residential District Dimensional Standards*. The front yard setback is based on the average of 2 adjacent lots on both sides of the subject lot, +/- 5'. In this case, the front yard setback is based on the average of three properties at 33, 55, and 1 North Avenue. These properties all have two front yards – on North Avenue and on Depot Street. Their front yard setbacks along Depot Street are 63', 56', and 116', respectively. The average of these setbacks is 78'. A 78' (+/- 5') on a 95' – 114' deep lot, combined with a rear yard setback of 25% results in an unbuildable lot. Compliance with the front yard setback is impossible. **(Affirmative finding)**

*(b) That because of such physical circumstances or conditions, there is no possibility that the property can be developed in strict conformity with the provisions of the zoning regulation and that the authorization of a variance is, therefore, necessary to enable the reasonable use of property.*

As noted above, a 78' (+/- 5') front yard setback combined with a 25% rear yard setback results in virtually no building envelop. Compliance with the front yard setback is impossible. **(Affirmative finding)**

*(c) The unnecessary hardship has not been created by the applicant.*

The hardship relative to the front yard setback is related to the fact that front yard setback requirements are based on neighboring properties. It is not a hardship created by the applicant. **(Affirmative finding)**

*(d) That the variance, if authorized, will not alter the essential character of the neighborhood or district in which the property is located, substantially or permanently impair the appropriate use or development of adjacent property, reduce access to renewable energy resources, nor be detrimental to the public welfare.*

The variance from the requirements of the front yard setback would not alter the essential character of the neighborhood or district in which the subject property is located. The variance would enable the construction of a single family home on a vacant lot located within the waterfront medium density residential zone. **(Affirmative finding)**

*(e) That the variance, if authorized, will represent the minimum variance that will afford relief and will represent the least deviation possible from the zoning regulation and from the plan.*

The requested 10' front yard setback allows for a reasonable building envelope and minimizes encroachment into the steep slope on the property. **(Affirmative finding)**

*(f) The variance, if granted, will not result in the extension of a non-complying situation or allow the initiation of a nonconforming use of land.*

The variance from the front yard setback requirement would not result in the extension of a noncomplying situation or allow a nonconforming use of land. The variance would simply enable the construction of a single family home. **(Affirmative finding)**

## **II. MINUTES**

The meeting minutes will be distributed separately upon review and approval by the Development Review Board.

## **III. MOTION**

### **Motion: Austin Hart**

I move that the Board grant approval of a variance from the front yard setback on the existing vacant lot at 31 North Avenue in the RM-W zone in accordance with Article 12. Approval is subject to the following conditions:

1. This variance approval is for relief from the front yard setback requirement of Table 4.4.5-3, *Residential District Dimensional Standards*.
2. No development is included in this approval. All development is subject to a separate zoning permit and must meet all other dimensional requirements.
3. Per Sec. 12.1.3, *Filing a Request, Public Hearing, and DRB Decision*, this variance approval shall be valid for a period of 2 years.

**Seconded: Jonathan Stevens**

**Vote: 6-0-0, motion carried**

Dated at Burlington, Vermont, this 24th day of October 2014

Respectfully Submitted,

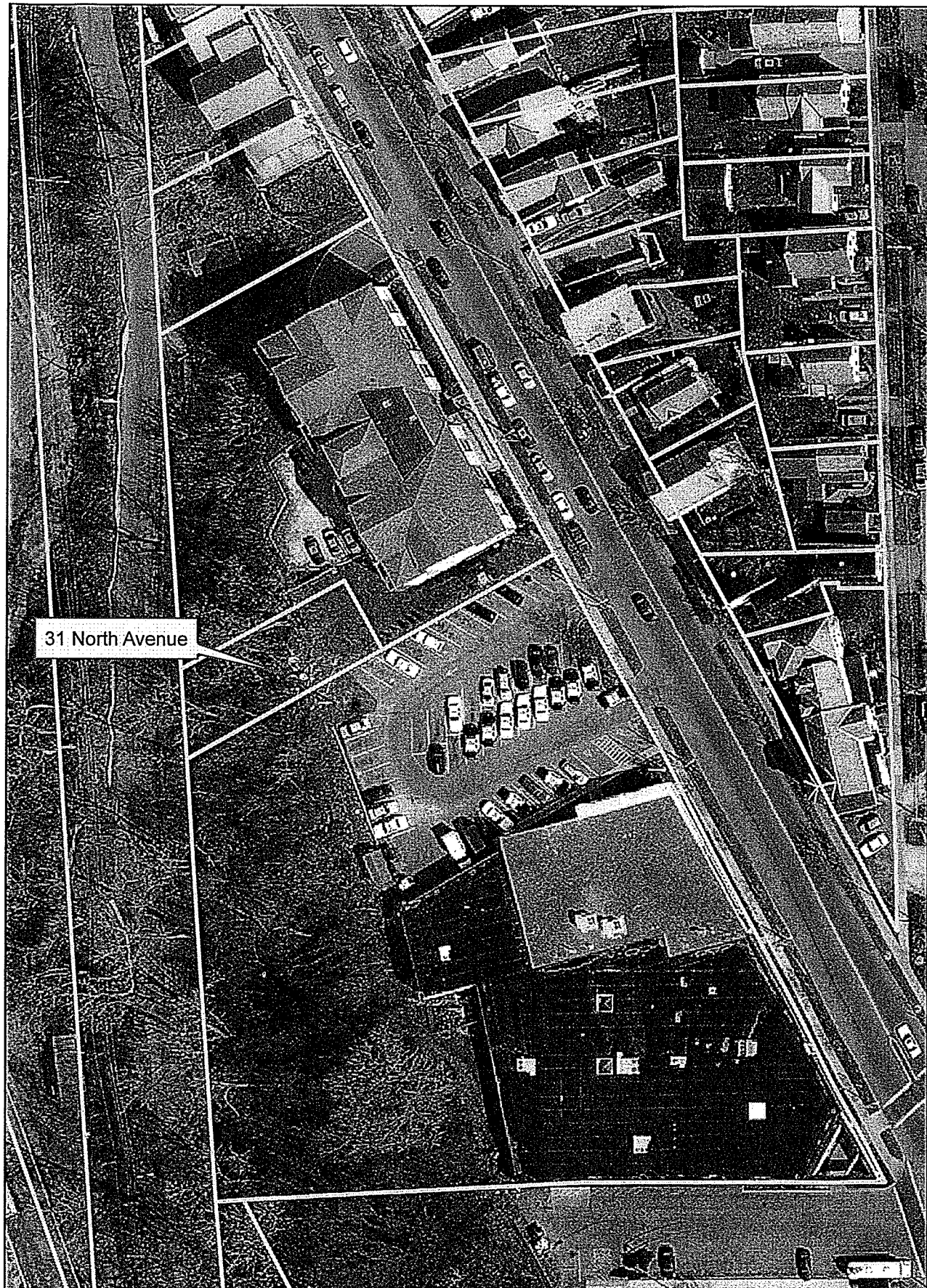
  
Austin D. Hart, Development Review Board Chair

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**Please note that an interested person may appeal a decision of the Development Review Board to the Vermont Superior Court Environmental Division. (Zoning Ordinance Article 17, Section 17.1.7, Appeals of Development Review Board Decisions: An interested person may appeal a decision of the Development Review Board to the Vermont Superior Court Environmental Division. The appeal shall be taken in such a manner as the supreme court may by rule provide for appeals from state agencies governed by Sections 801 through 816 of Title 3). The Court rules may require that such an appeal be commenced within Thirty (30) days of the Board's decision.**



# 31 North Avenue





## Department of Planning and Zoning

149 Church Street  
Burlington, VT 05401  
Telephone: (802) 865-7188  
(802) 865-7195 (FAX)  
(802) 865-7142 (TTY)

*David White, AICP, Director*  
*Meagan Tuttle, AICP, Comprehensive Planner*  
*Jay Appleton, GIS Manager*  
*Scott Gustin, AICP, CFM, Principal Planner*  
*Mary O'Neil, AICP, Principal Planner*  
*Ryan Morrison, CFM, Associate Planner*  
*Anita Wade, Zoning Clerk*  
*Elsie Tillotson, Department Secretary*



**TO:** Development Review Board  
**FROM:** Scott Gustin *[Signature]*  
**DATE:** April 19, 2016  
**RE:** 15-0922CA; 451 Appletree Point Road (Remand)

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**Note: These are staff comments only; decisions on projects are made by the Development Review Board, which may approve, deny, table or modify any project. THE APPLICANT OR REPRESENTATIVE MUST ATTEND THE MEETING.**

Zone: WRL                      Ward: 4N

Owner/Applicant: Al Senecal / Brad Rabinowitz

**Request:** Remand review – demo existing structures, construct new single family home with accessory apartment and associated site improvements. Lot line adjustment included.

### **Applicable Regulations:**

Article 3 (Applications and Reviews), Article 4 (Maps & Districts), Article 5 (Citywide General Regulations), Article 6 (Development Criteria & Guidelines), Article 8 (Parking), Article 10 (Subdivision)

### **Background Information:**

On July 21, 2015, the applicant received approval to demolish the existing camp building and to construct a new duplex and related site improvements. That approval was appealed to the VT Superior Court Environmental Division. Prior to trial, the parties arrived at an agreement for a scaled back proposal. The matter has been remanded to the Development Review Board for final approval.

### **Revisions include:**

- Change from duplex to single family home with accessory apartment
- Reduce size of building footprint by ~ 5%
- Move building back another 5' from the front property line (30' instead of 25' setback)

### **Previous zoning actions for this property are as follows:**

- 7/21/15, Approval of demolition, construction of new duplex and related site improvements
- 7/1/14, Approval of front yard setback variance
- 7/26/04, Approval of 2-lot subdivision
- 1/13/04, Denial of 3-lot subdivision

**Recommendation:** **Consent approval** as per, and subject to, the following findings and conditions:

### **I. Findings**

### **Article 3: Applications and Reviews**

#### **Part 5, Conditional Use & Major Impact Review:**

##### **Sec. 3.5.6, Review Criteria**

###### **(a) Conditional Use Review Standards**

*1. Existing or planned public utilities, facilities or services are capable of supporting the proposed use in addition to the existing uses in the area;*

The proposed development will require municipal water and sewer service. A municipal water line already runs by the property. A new pump station and force main will be installed to connect to the municipal wastewater system. Review and approval by the Department of Public Works will be required. A State of Vermont wastewater permit has already been obtained. **(Affirmative finding as conditioned)**

*2. The character of the area affected as defined by the purpose or purposes of the zoning district(s) within which the project is located, and specifically stated policies and standards of the municipal development plan;*

The property is located on the east-facing side of Appletree Point within the Waterfront Residential Low Density (WRL) zone. There is an existing vacant camp structure on the property and several homes along the western side of the point; however, much of the peninsula is undeveloped. As with the Residential Low Density zone, the WRL zone is primarily intended for low density residential development in the form of detached single family homes and duplexes. The WRL zone is distinguished by its close proximity to the lake and a greater consideration of public views from the lake and stormwater runoff. The proposed single family home with accessory apartment is consistent with the intent of the WRL zone. The proposed home will be set back 35' – 45' from the 100' lakeshore elevation, and much of the existing vegetation along the lakeshore will be retained. Stormwater management has been reviewed and approved by the Stormwater Administrator. **(Affirmative finding)**

*3. The proposed use will not have nuisance impacts from noise, odor, dust, heat, and vibrations greater than typically generated by other permitted uses in the same zoning district;*

The proposed single family home with accessory apartment is not expected to generate any such nuisance impacts. **(Affirmative finding)**

*4. The transportation system is capable of supporting the proposed use in addition to the existing uses in the area. Evaluation factors include street designations and capacity; level of service and other performance measures; access to arterial roadways; connectivity; transit availability; parking and access; impacts on pedestrian, bicycle, and transit circulation; safety for all modes; and adequate transportation demand management strategies.*

The new home and apartment will generate additional vehicular traffic; however, impacts will be minimal. Traffic impact fees will be paid to help offset what impacts there are. **(Affirmative finding as conditioned)**

*5. The utilization of renewable energy resources;*

The utilization of alternative energy has not been incorporated into this proposal. The proposed construction does not preclude such utilization in the future. **(Affirmative finding)**

###### **(b) Major Impact Review Standards (Not applicable)**

(c) Conditions of Approval:

*In addition to imposing conditions of approval necessary to satisfy the General Standards specified in (a) or (b) above, the DRB may also impose additional conditions of approval relative to any of the following:*

*1. Mitigation measures, including but not limited to screening, landscaping, where necessary to reduce noise and glare and to maintain the property in a character in keeping with the surrounding area.*

Nothing in this revised proposal is expected to generate offsite noise or glare substantial enough to require mitigation. **(Affirmative finding)**

*2. Time limits for construction.*

The project is to be constructed within the standard 2-year timeframe. **(Affirmative finding)**

*3. Hours of operation and/or construction to reduce the impacts on surrounding properties.*

Hours of operation do not apply to the proposed residence. No construction schedule is proposed. Other projects with nearby residences have days and hours of construction limited to Monday-Friday 7:00 am – 6:00 pm. Limited work may extend outside this schedule to extend to Saturday 9:00 AM – 5:00 PM only after obtaining approval from the Development Review Board through correspondence rather than a scheduled hearing. No construction on Sunday. **(Affirmative finding as conditioned)**

*4. That any future enlargement or alteration of the use return for review to the DRB to permit the specifying of new conditions; and,*

Any future enlargement or alteration will be reviewed under the zoning regulations in effect at that time.

*5. Such additional reasonable performance standards, conditions and safeguards, as it may deem necessary to implement the purposes of this chapter and the zoning regulations.*

See recommended conditions of approval.

#### **Article 4: Maps & Districts**

##### **Sec. 4.4.5, Residential Districts:**

###### **(a) Purpose**

###### **(2) Waterfront Residential Low Density (WRL)**

The subject property is located in the WRL zone. This zone is intended primarily for low density residential development in the form of single detached dwellings and duplexes with consideration given to design review. The proposed single family home with apartment is consistent with this purpose. **(Affirmative finding)**

###### **(b) Dimensional Standards & Density**

The property, with the lot line adjustment with neighboring 465 Appletree Point Rd, will have 150' of road frontage and 22,043 sf area. Both well above the 75' and 9,900 sf, respectively, needed for a single family home in the Larger Lot Overlay that affects this property.

The 1 primary residential unit proposed on the 0.5 acre lot is acceptable. 4.4 dwelling units/acre are allowed within the Larger Lot Overlay. Accessory apartments do not count towards density.

Proposed lot coverage will decline slightly to 19.4%, well below the 35% limit permitted.

The proposed front yard setback has been pushed back to 30'. Side yard setbacks vary between 15' and 17.5' with the slightly tapered lot. As proposed, the home is 40' at its closest to a side property line. There is no rear yard setback; rather, there is a waterfront setback. The standard waterfront setback requirement is 75'; however, as noted during review of the July 2014 variance request, there are exceptions as noted in (d) *District Specific Regulations*, 1 below. As proposed, the new home would be set back an acceptable 35' – 45' from the 100' elevation, depending on the curvature of the shoreline.

The multiple roof planes and dormers make a clear height measurement to the midpoint of the roof rise elusive. It appears to be about 20'. The very peak of the structure is 33', below the 35' height limit. **(Affirmative finding)**

***(c) Permitted & Conditional Uses***

The proposed single family home is a permitted use in the WRL zone. The accessory apartment, as new construction, triggers conditional use review. Conditional use criteria are addressed under Article 3 above. **(Affirmative finding)**

***(d) District Specific Regulations***

***1. Setbacks***

***B. Encroachment into the Waterfront Setback.***

***(i) Replacement of Existing Structure***

The existing camp structure on the subject property sits about 17' from the 100' lakeshore elevation. As noted above, the standard setback requirement is 75'. This provision allows replacement structures to encroach into the standard 75' setback so long as the area or extent of encroachment does not increase. As noted above, the new home will be set back 35' – 45' from the 100' elevation and is acceptable.

The area of existing structural encroachment (the camp and boathouse buildings) within the 75' waterfront setback is 1,347 sf. The proposed building area (the new home) is now 1,226 sf and remains acceptable. Note that this retention (and slight lessening) of nonconformity is further supported by Sec. 5.3.5, *Nonconforming Structures* (b) *Demolition*. This section specifically allows for demolition of nonconforming structures and replacement thereof within 1 year so long as the degree of nonconformity does not increase. Such is the case here. **(Affirmative finding)**

***2. Height***

No height bonuses are being sought. **(Not applicable)**

***3. Lot Coverage***

No lot coverage bonuses are being sought. **(Not applicable)**

***4. Accessory Residential Structures and Uses***

The attached garage has a 275 sf footprint; less than 50% of the main home's 1,226 sf footprint. **(Affirmative finding)**

***5. Residential Density***



The home is subject to the functional family provisions of the Comprehensive Development Ordinance. **(Affirmative finding)**

#### **6. Uses**

No neighborhood commercial use is included in this proposal. **(Not applicable)**

#### **7. Residential Development Bonuses**

No development bonuses are being sought. **(Not applicable)**

#### ***Sec. 4.5.4, Natural Resource Protection Overlay (NR) District***

##### ***(c) District Specific Regulations: Riparian and Littoral Conservation Zone***

The subject property is wholly affected by the Riparian and Littoral Conservation Zone (250' width from the 100' lakeshore elevation). This overlay zone limits the clearing of vegetation and new stormwater outfalls. As proposed, some dead or dying trees will be removed, but most of the existing vegetation along the lakeshore will be retained. The project plans clearly depict vegetation to be removed or retained. No new stormwater outfalls are proposed. A basic stormwater management plan has been reviewed and approved by the Stormwater Administrator (see Sec. 5.5.3). The Conservation Board reviewed the prior duplex proposal under this criterion and recommended project approval as proposed. **(Affirmative finding)**

##### ***(f) District Specific Regulations: Special Flood Hazard Area***

This lakeshore property is partially affected by the special flood hazard area (SFHA). All areas along the lakeshore under the 102' elevation are within the SFHA. Except for a new stairway to the water, none of the proposed construction will take place within the SFHA. **(Affirmative finding)**

#### **Article 5: Citywide General Regulations**

##### ***Sec. 5.2.3, Lot Coverage Requirements***

See Sec. 4.4.5 (b) above.

##### ***Sec. 5.2.4, Buildable Area Calculation*** **(Not applicable)**

##### ***Sec. 5.2.5, Setbacks***

See Sec. 4.4.5 (b) above.

##### ***Sec. 5.2.6, Building Height Limits***

See Sec. 4.4.5 (b) above.

##### ***Sec. 5.2.7, Density and Intensity of Development Calculations***

See Sec. 4.4.5 (b) above.

#### ***Sec. 5.4.5, Accessory Dwelling Units***

##### ***(a) Accessory Units, General Standards/Permitted Uses:***

*Where there is a primary structure on a lot which exists as an owner-occupied single family residence, one accessory dwelling unit, that is located within or appurtenant to such single family dwelling, shall be allowed as a permitted use if the provisions of this subsection are met. An accessory dwelling unit means an efficiency or one bedroom apartment that is clearly subordinate*

*to the primary dwelling, and has facilities and provisions for independent living, including sleeping, food preparation, and sanitation. No accessory unit shall be inhabited by more than 2 adult occupants. An accessory unit shall not be counted as a dwelling unit for the purposes of density calculation. Additionally, there must be compliance with all the following:*

1. *The property has sufficient wastewater capacity as certified by the department of public works;*  
Sufficient wastewater capacity is available. A letter of capacity has been issued by the Department of Public Works. **(Affirmative finding)**
2. *The unit does not consist of more than 30 percent of the total habitable floor area of the building, inclusive of the accessory dwelling unit;*  
The total area of the proposed residence is 1,827 sf. The 1-bedroom apartment is 530 sf (22.5% of the entire area). **(Affirmative finding)**
3. *Applicable setback and coverage requirements are met;*  
See Sec. 4.4.5 (b).
4. *One additional parking space which may be legally allocated to the accessory unit must be provided for the accessory unit; and,*  
As proposed, there is room for 3 or 4 vehicles to park onsite. One of these spaces will serve the accessory apartment. **(Affirmative finding)**
5. *A deed or instrument for the property shall be entered into the land records by the owner containing a reference to the permit granting the accessory unit prior to the issuance of the certificate of occupancy for the unit. Such reference shall identify the permit number and note that the property is subject to the permit and its terms and conditions including owner occupancy. No certificate of occupancy shall be issued for the unit unless the owner has recorded such a notice.*  
This requirement is a condition of permit approval. **(Affirmative finding as conditioned)**

***(b) Conditional Use Approval for Accessory Units:***

If any of the following are also proposed, conditional use approval, as well as development review provisions of Article 6 shall be required:

1. *A new accessory structure;*  
**(Not applicable)**
2. *An increase in the height or habitable floor area of the existing dwelling;*  
New construction is proposed, thereby triggering conditional use review. See Article 3.  
**(Affirmative finding)**
3. *An increase in the dimensions of any parking area;*  
**(Not applicable)**

***Sec. 5.5.1, Nuisance Regulations***

Nothing in the proposal appears to result in creating a nuisance under this criterion. **(Affirmative finding)**

***Sec. 5.5.2, Outdoor Lighting***

No revisions to outdoor lighting have been made. As previously approved, new outdoor lighting consists of building mounted fixtures to illuminate building entries and post and bollard fixtures to illuminate the circulation area and new stairs to the lakeshore. Locations are noted, and cutsheets have been provided. All are acceptable residential fixtures generating low levels of illumination. **(Affirmative finding)**

***Sec. 5.5.3, Stormwater and Erosion Control***

No revisions to stormwater management or erosion control have been made. As more than 400 sf of earth disturbance is proposed, a “small project erosion control” form was provided. A residential stormwater management plan was also provided. Stormwater management is basic and amounts to directing runoff onto pervious surfaces for infiltration. Both were reviewed and approved by Conservation Board and the Stormwater Administrator. Those approvals are incorporated into this permit. **(Affirmative finding as conditioned)**

**Article 6: Development Review Standards**

Note that the project revisions do not materially affect the criteria of Article 6. Except for correcting reference to duplex (now single family home with accessory apartment) and revised dimensional numbers, these findings are unchanged from the original duplex approval.

***Part 1, Land Division Design Standards***

No land division is included in this proposal; however, a lot line adjustment between this property and neighboring 465 Appletree Point Road is proposed. The proposed adjustment is of the common side property boundary and will not affect any of the criteria under this section. **(Affirmative finding)**

***Part 2, Site Plan Design Standards***

***Sec. 6.2.2, Review Standards***

***(a) Protection of important natural features***

This lakeshore site is lightly wooded. Most of the trees are concentrated along the shoreline. Some tree removal is proposed as noted on the landscape and planting plan; however, a number of the existing trees will remain. The lakeshore itself is a significant natural feature and is protected by the riparian and littoral conservation zone. This overlay limits tree clearing and also requires stormwater management. The stormwater management plan has been reviewed and approved by the Conservation Board and the Stormwater Administrator. **(Affirmative finding)**

***(b) Topographical alterations***

The property slopes gently towards the lake and then drops significantly down to the lake along the immediate shoreline. The site of the proposed home is generally flat and will remain so. A soils analysis has been done, and no blasting is included in this proposal. Removal of the existing camp and boathouse along the shoreline will require some grading. That work will result in grades reflecting the existing grades on either side of these structures. **(Affirmative finding)**

***(c) Protection of important public views***

The subject property is not affected by any identified public view corridor. This criterion is typically applied to developments fronting such corridors. An individual interested in this

application has asserted that, in light of the design review considerations of the WRL zone, views of the construction from the lake should be considered. This criterion is written broadly enough that that assertion may be well based. The proposed home will indeed be visible from the lake. Virtually any construction would be. The new home will be set back and at least partially behind lakeshore vegetation. The existing camp structure is set closer to the lakeshore with little vegetative screening. **(Affirmative finding)**

*(d) Protection of important cultural resources*

The property is within an archaeologically sensitive area; however, there are no specifically identified archaeological sites on the property. This archaeological sensitivity stems from the property's lakeshore location. If, during construction, artifacts are unearthed, it is the applicant's responsibility to stop earthwork and to contact the Vermont Division for Historic Preservation for further guidance. **(Affirmative finding as conditioned)**

*(e) Supporting the use of alternative energy*

There is no indication that the proposed home will utilize alternative energy. Solar energy utilization is encouraged. In any event, the home will not adversely impact the actual or potential use of alternative energies by neighboring properties. **(Affirmative finding)**

*(f) Brownfield sites*

The subject property is not an identified brownfield. **(Affirmative finding)**

*(g) Provide for nature's events*

As total lot coverage will exceed 2,500 sf, a residential stormwater plan has been provided. All of the impervious surface associated with this project is disconnected from the municipal stormwater system, and stormwater will infiltrate into the ground as it does now. As noted above, the city's stormwater program has reviewed the proposed stormwater management.

The front entrance into the home is sheltered, and ample room is available onsite for seasonal snow storage. **(Affirmative finding)**

*(h) Building location and orientation*

The proposed residence is relatively far from existing homes on Appletree Point Road (~ 360' from 395 Appletree Point Rd and ~ 220' from 440 Appletree Point Rd). It will be set 30' from the road – the same front setback as that of the to-be-built neighboring home at 465 Appletree Point Road. Its main entrance faces the road and is clearly identifiable. The small front porch accentuates the primary entrance. The secondary entrance (into the 2nd unit) is set off to the side but also faces the road. The garage is set back more than the minimum required 25' from the road and is set behind the front plane of the home. The width of the garage is 12' or 20% of the total building width of 58'. The width of the garage complies with the maximum permissible 35% of the width of the entire structure. **(Affirmative finding)**

*(i) Vehicular access*

A private driveway will provide adequate access to the home. It will access the attached garage and surface parking to the side. A turn-around is provided in front of the home; however, it remains behind the front yard setback. **(Affirmative finding)**

*(j) Pedestrian access*

A stone front walkway is proposed and will connect to the private road. **(Affirmative finding)**

*(k) Accessibility for the handicapped*

No handicap accessibility is evident or required with this proposal. **(Affirmative finding)**

*(l) Parking and circulation*

Up to four parking spaces are provided; three in the driveway and one in the attached garage. These spaces meet the minimum parking requirement of 2 spaces for the primary dwelling and 1 for the apartment. Circulation is simple with access provided to the garage and surface parking spaces. **(Affirmative finding)**

*(m) Landscaping and fences*

Clearing limits are depicted. Much of the existing vegetation will be retained. New landscaping is proposed and consists of a variety of shrubs and one new peach tree. Much of the new landscaping is proposed along the roadside and will provide some buffering between the new home and the road. Given the close proximity of the driveway turn-around to the road, additional landscaping between it and the road is necessary to provide screening between the two.

No new fencing is proposed; however, a boulder wall will be installed to help shore up the slope where the existing camp will be removed. Topographic information indicates the bottom of this wall will be above the 102' elevation and out of the lake's flood zone. New concrete stairs will provide access to the lakeshore. **(Affirmative finding as conditioned)**

*(n) Public plazas and open space*

No public plaza or open space is included or required in this proposal. **(Not applicable)**

*(o) Outdoor lighting*

See Sec. 5.5.2.

*(p) Integrate infrastructure into the design*

New utility lines must be buried. No mechanical equipment is depicted on the plan; however, the applicant has noted that an AC compressor will be located behind the building. This item must be depicted on the site plan. **(Affirmative finding as conditioned)**

***Part 3, Architectural Design Standards***

***Sec. 6.3.2, Review Standards***

***(a) Relate development to its environment***

***1. Massing, Height, and Scale***

The overall size of the home has been reduced. As revised, the massing, height, and scale of the proposed home remain consistent with that of existing homes along Appletree Point Road. The proposed home affords ample living space while staying within the constraints established by the existing structures within the lakeshore setback. The front façade includes a well-defined symmetrical front entry. Varying rooflines, dormers, and eave projections serve to articulate separate volumes within the overall structure. **(Affirmative finding)**

***2. Roofs and Rooflines***

As noted above, the proposed structure incorporates numerous rooflines. Generally, however, it may be seen as a gable roof, particularly as viewed from the road. The proposed roof is appropriate as part of this residential building. **(Affirmative finding)**

*3. Building Openings*

The primary front entrance is clearly articulated and is sheltered by a small front porch. Fenestration is appropriately scaled and placed in consistent rhythm throughout the building. **(Affirmative finding)**

*(b) Protection of important architectural resources*

The seasonal camp structure proposed for demolition is not historically significant. Its removal will not adversely impact Burlington's wealth of historic buildings. **(Affirmative finding)**

*(c) Protection of important public views*

See 6.2.2 (c) above.

*(d) Provide an active and inviting street edge*

As noted above, the front entry to the proposed home is clearly articulated. There are no large blank walls or expanses of roof. Fenestration, roof variations, and architectural detailing work successfully to provide an active and inviting street elevation. **(Affirmative finding)**

*(e) Quality of materials*

The proposed home will be clad in cedar shingles with tongue-and-grove siding accents. Painted white AZEK trim is noted. Asphalt shingles will be installed. Combination fiberglass and wood windows will be installed. Railing materials are composite. The materials proposed are of acceptable quality and durability. **(Affirmative finding)**

*(f) Reduce energy utilization*

The proposed building must comply with the current energy efficiency standards of Burlington and the State of Vermont. **(Affirmative finding as conditioned)**

*(g) Make advertising features complimentary to the site*

No advertising is included in this proposal.

*(h) Integrate infrastructure into the building design*

Utility meters will be appropriately located on a side elevation near the entrance to the apartment. **(Affirmative finding)**

*(i) Make spaces safe and secure*

The proposed building must comply with the city's current egress requirements. Building entries will be illuminated. **(Affirmative finding as conditioned)**

**Article 8: Parking**

***Sec. 8.1.8, Minimum Off-Street Parking Requirements***

The subject property is located in the neighborhood parking district. As such, the single family home requires 2 parking spaces. The accessory apartment requires 1 parking space. All of the parking spaces will be provided onsite; 1 in the garage and 2-3 within the driveway. **(Affirmative finding)**



## Article 10: Subdivision

Note that the project revisions do not materially affect the criteria of Article 10. This item remains unchanged.

No subdivision of land is included in this proposal; however, a lot line adjustment with neighboring 465 Appletree Point Rd is included. A boundary line adjustment plan clearly depicts the proposed boundary adjustment. The required endorsement block for the Administrative Officer's signature per Sec. 10.1.5, *Lot Line Adjustments*, (a) is missing. All of the signature blocks provided relate to subdivisions and should be deleted (except for the surveyor's endorsement). (**Affirmative finding as conditioned**)

## II. Conditions of Approval

1. **Prior to release of the zoning permit**, revised plans shall be submitted subject to staff review and approval. Revised plans shall depict:
  - a. The proposed AC compressor; and,
  - b. The required Administrative Officer's signature block per Sec. 10.1.5.
2. **Prior to release of the zoning permit**, the new pump station and force main shall be reviewed and approved by the Department of Public Works.
3. This permit incorporates the EPSC and Stormwater Management approvals issued by the Stormwater Administrator on April 3, 2015.
4. Days and hours of construction shall be limited to Monday-Friday 7:00 am – 6:00 pm. Limited work may extend outside this schedule to extend to Saturday 9:00 AM – 5:00 PM only after obtaining approval from the Development Review Board through correspondence rather than a scheduled hearing. No construction on Sunday
5. In the event that artifacts are uncovered during excavation, it is the applicant's responsibility to contact the Vermont Division for Historic Preservation for further guidance.
6. The Applicant/Property Owner is responsible for obtaining all necessary Zoning Permits and Building Permits through the Department of Public Works as well as other permit(s) as may be required, and shall meet all energy efficiency codes of the city and state as required.
7. A deed or instrument for the property shall be entered into the land records by the owner containing a reference to the permit granting the accessory unit **prior to the issuance of the certificate of occupancy** for the unit. Such reference shall identify the permit number and note that the property is subject to the permit and its terms and conditions including owner occupancy. No certificate of occupancy shall be issued for the unit unless the owner has recorded such a notice.
8. At least **7 days prior to the issuance of a certificate of occupancy**, the applicant shall pay to the Planning & Zoning Department the impact fee as calculated by staff based on the net new square footage of the proposed development.
9. Standard permit conditions 1-15.



## BRAD RABINOWITZ ARCHITECT

*Architecture*  
*Space Planning*  
*Interior Design*

JOB MEMO: 451 Appletree Point Road  
RE: Amendment of Existing DRB Approval  
DATE: March 11, 2016  
TO: Scott Gustin  
FROM: Brad Rabinowitz

---

Attached are revised drawings for 451 Appletree Point Road. We are requesting that the existing approval be amended as noted below. Note that in all cases the impact, size, coverage etc is being reduced from the existing approvals.

### 451 Appletree Point Road:

1. The road front setback is being increased from 25' to 30'.
  - a. Note that this distance is measured from the road centerline.
  - b. The property line is in the roadway and thus part of the road counts as lot coverage and is included in this revision as it was included in the original approved application.
  - c. The house as laid out is well off the approved lake front setback and presents no issues moving marginally closer.
2. The building footprint has been reduced by about 5%.
  - a. This is included in the site calculations and results in a change in lot coverage from 19.8% to 19.4%.
3. The approval was for a duplex on this property. A change is being requested to approve this as an accessory apartment rather than a duplex.
  - a. The apartment size as originally submitted meets the restrictions of an accessory apartment.

cc Al Senecal

200 Main Street  
Burlington, Vermont 05401  
(802) 658-0430, Fax (802) 863-6876  
[www.bradrabinowitzarchitect.com](http://www.bradrabinowitzarchitect.com)

Senecal-0311-16



R. Eastman et al.  
Volume 423 Page 426  
Volume 266 Page 292  
Volume 266 Page 340

W. Eastman  
Volume 229 Page 17  
February 7, 1975

## LOT COVERAGE DATA

### 465 APPLETREE POINT

	APPROVED PERMIT	PROPOSED REVISED
BUILDING	2,512 SF	<b>2,149 SF</b>
ROADS/WALKS	2,680 SF	<b>2,680 SF</b>
TOTALS:	5,192 SF/29.8%	<b>4,829 SF/27.7%</b>

NOTE: 409 SF OF DECKS ARE NOT INCLUDED IN 465 AS THEY ARE PART OF THE ALLOWED 10% BONUS IN THIS DISTRICT

### 451 APPLETREE POINT

	APPROVED PERMIT	PROPOSED REVISED
BUILDING	1,342 SF	<b>1,266 SF</b>
ROADS/WALKS	2,190 SF	<b>2,190 SF</b>
TOTALS:	3,532 SF/19.8%	<b>3,456 SF/19.4%</b>

NOTE: 409 SF OF DECKS ARE NOT INCLUDED IN 465 AS THEY ARE PART OF THE ALLOWED 10% BONUS IN THIS DISTRICT

NOTE:  
IN ADDITION TO PLANTING SHOWN  
ON SHEET L1.0- 3 TREES ARE TO BE A  
ADDED IN THIS AREA

February 7, 1975

TBM  
Nail in PP  
Elev. = 109.36

NOTE:  
DRIVEWAY TO  
BE REVISED  
TO MAINTAIN  
TREE

NOTE:  
SHADED ARE REPRESENTS  
A 5% REDUCTION IN SIZE  
HOUSE IS ROTATED +/- 2 DEGREES  
TO ACCOMMODATE THE REQUESTED  
30' SETBACK IN PLACE OF THE  
PERMITTED 25' SETBACK.

SHADED AREA  
REPRESENTS THE 15%  
REDUCTION IN HOUSE  
SIZE

① Site -Proposed  
1" = 30'-0"

NOTE:  
THIS PLAN IS INTENDED TO SHOW THE PROPOSED REDUCTION IN SIZE  
AND FOOTPRINT OF 465 AND COMPLIANCE WITH THE PROPOSED  
30' SETBACK IN PLACE OF THE APPROVED 25' SETBACK.  
THE FINAL PLAN MAY ADJUST THE LOCATIONS BUT THE HOUSES  
WILL BE NO CLOSER TO THE ROAD THAN SHOWN HERE

**BRAD RABINOWITZ ARCHITECT**

200 MAIN STREET BURLINGTON VT  
802 658 0430 T 802 863 6876 F  
www.bradrabinowitzarchitect.com

design:

**Senecal Residence**  
BURLINGTON, VERMONT

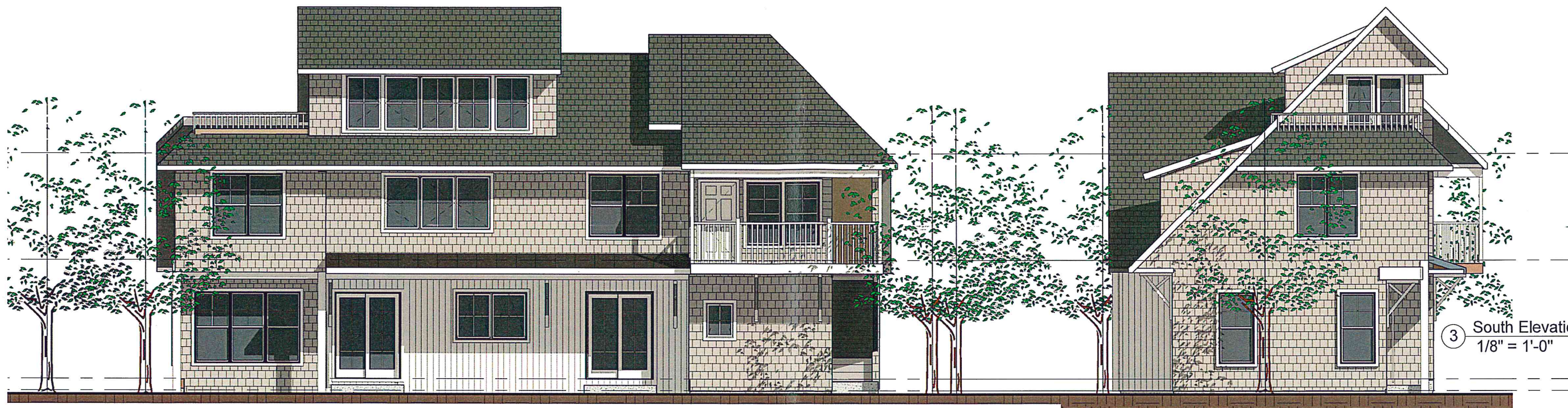
Site-451 & 465 Appletree Pt Rd-SCHEMATIC REVISIONS

As indicated

DECEMBER 23,  
2015

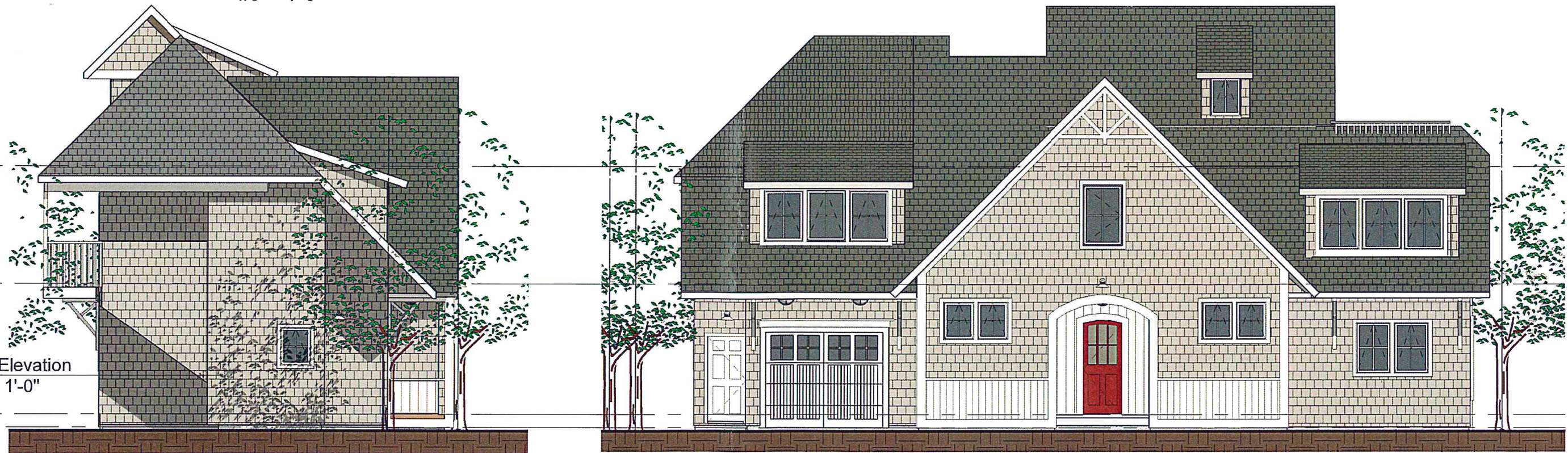
SR.1





④ East Elevation  
1/8" = 1'-0"

③ South Elevation  
1/8" = 1'-0"



① North Elevation  
1/8" = 1'-0"

② West Elevation  
1/8" = 1'-0"

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**BRAD RABINOWITZ ARCHITECT**

200 MAIN STREET BURLINGTON VT  
802 658 0430 T 802 863 6876 F  
[www.bradrabinowitzarchitect.com](http://www.bradrabinowitzarchitect.com)

design:

**Senecal at Appletree Point**  
BURLINGTON, VERMONT

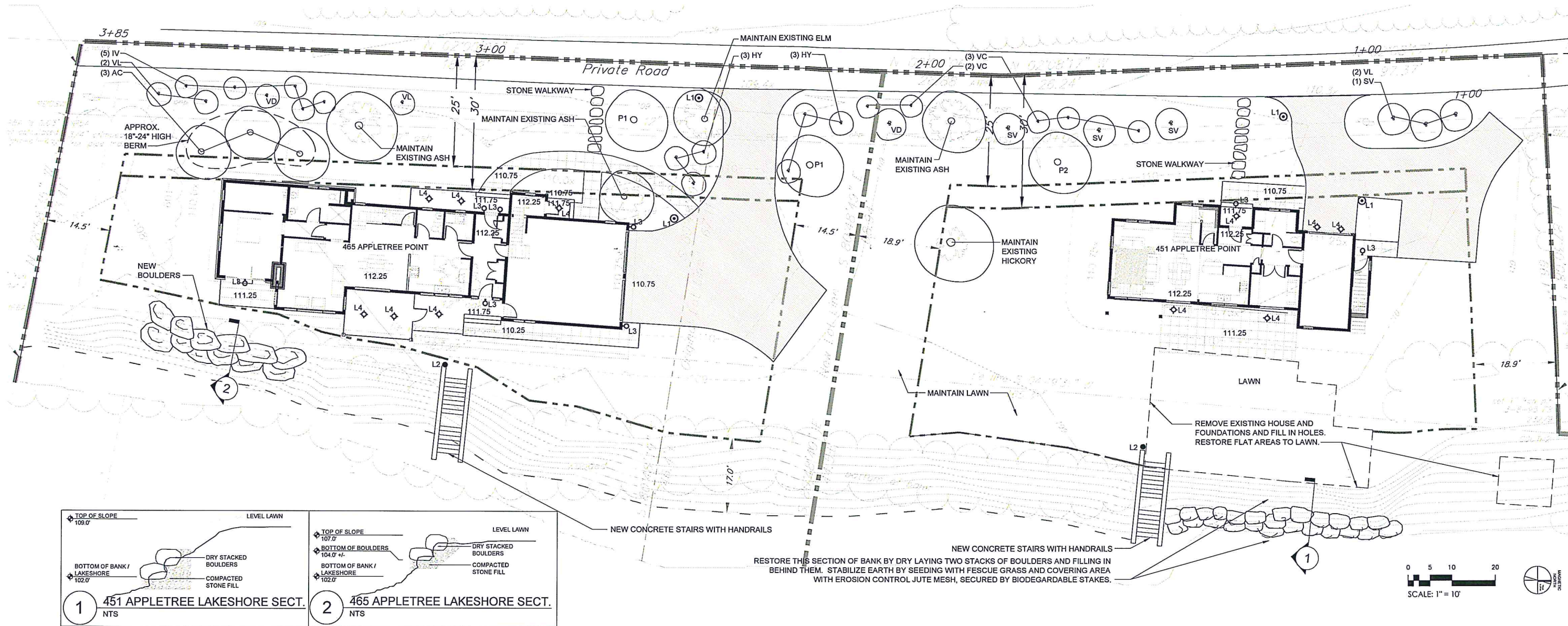
**EXTERIOR ELEVATIONS - 451-REDUCED**

1/8" = 1'-0"

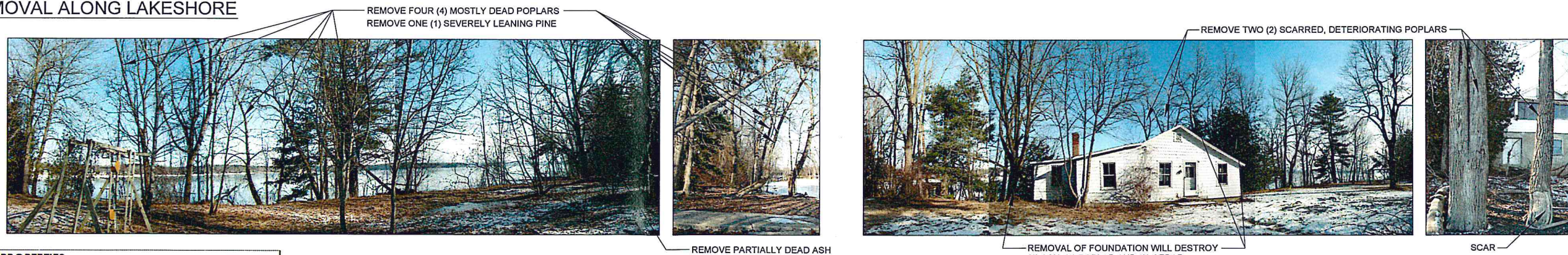
12/23/2015  
3:06:18 PM

**R.7**





## PLAN FOR TREE REMOVAL ALONG LAKESHORE



PLANT SCHEDULE FOR SENECA PROPERTIES				
TREES				
Key	Botanical Name / Common Name	Characteristics	Size	Qty.
AC	Amelanchier canadensis / Serviceberry	White spring bloom, fall berries	7-8'	3
P1	Prunus Monticola / Bitter Cherry	Pink spring bloom, summer cherries	Availability	2
P2	Prunus pennsylvanica / Peach	White spring bloom, summer peaches	Availability	1
SHRUBS				
Key	Botanical Name / Common Name	Characteristics	Size	Qty.
HY	Hydrangea paniculata 'Limelight' / Pee Dee Hydrangea	White summer bloom, yellow fall foliage	10g, 3-4'	6
VO	Viburnum dentatum / Arrowwood Viburnum	White spring bloom, purple fall foliage and berries	6-8', 4-5'	2
VL	Viburnum lantana 'Molice' / Viburnum	White spring bloom, purple fall foliage and berries	6-8', 4-5'	5
VC	Vaccinium corymbosum / Highbush Blueberry	Summer berries, red fall foliage	5g, 2-3'	5
SV	Syringa vulgaris 'Charles Joly' / Common Lilac	Fragrant purple spring bloom	6-8', 5-6'	4
IV	Ilex verticillata 'Winter Red' / Winterberry, Dead, Holly	Red fall foliage, red winter berries	5g, 3-4'	4
IV	Ilex verticillata 'Jim Dandy' / Male Winterberry	Red fall foliage, red winter berries	5g, 3-4'	1

LIGHTING LEGEND		
KEY	DESCRIPTION	QTY.
⊙ L1	TEKA POST-MOUNTED LED LIGHT	4
• L2	TEKA BOLLARD LED LIGHT	2
◊ L3	TEKA WALL-MOUNTED LED LIGHT	8
◈ L4	TEKA SURFACE-MOUNTED LED LIGHT	11

Senecal Residences at Appletree Point  
Burlington, Vermont

# Landscape and Planting Plan

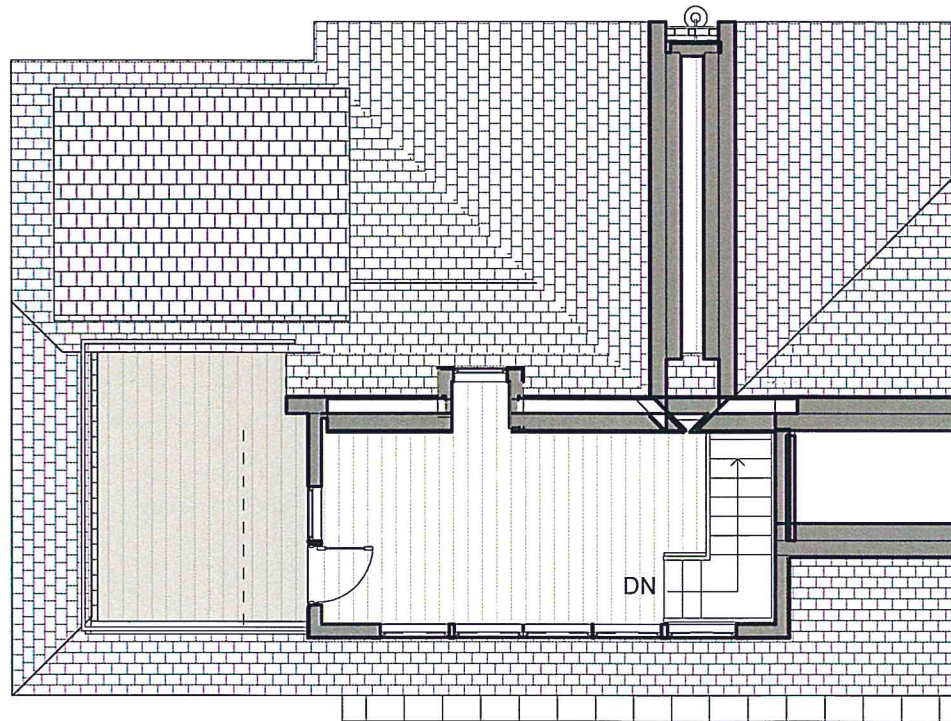
**CYNTHIA KNAUF**  
LANDSCAPE DESIGN INC.

215 College Street, Studio 202, Burlington Vermont 05401  
Cynthia@cynthiaknauf.com 802.655.0552 cynthiaknauf.com

ARCHITECT  
Brad Riekenow, Architect  
200 Main Street, Burlington, Vermont 05401  
Tel: (802) 656-0430 / Fax: (802) 853-6876  
Email: office@bradrickenow.com

DATE:	March 2, 2015 Revised June 25, 2015 Revised January 11, 2016
SCALE:	1" = 10'-0"
DRAWN BY:	AC
L1.0	





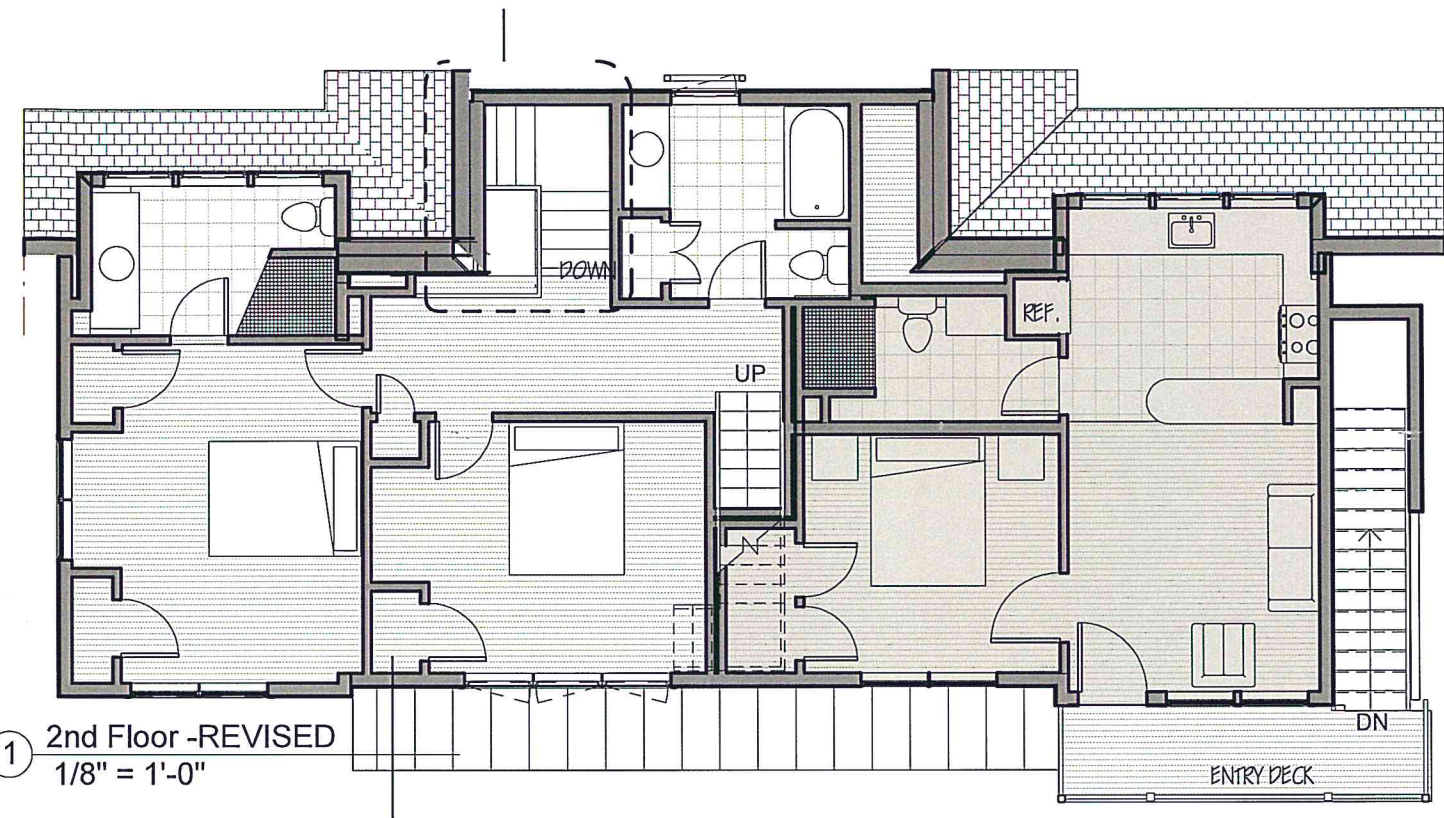
③ 3rd Floor  
1/8" = 1'-0"

## BUILDING FOOTPRINT

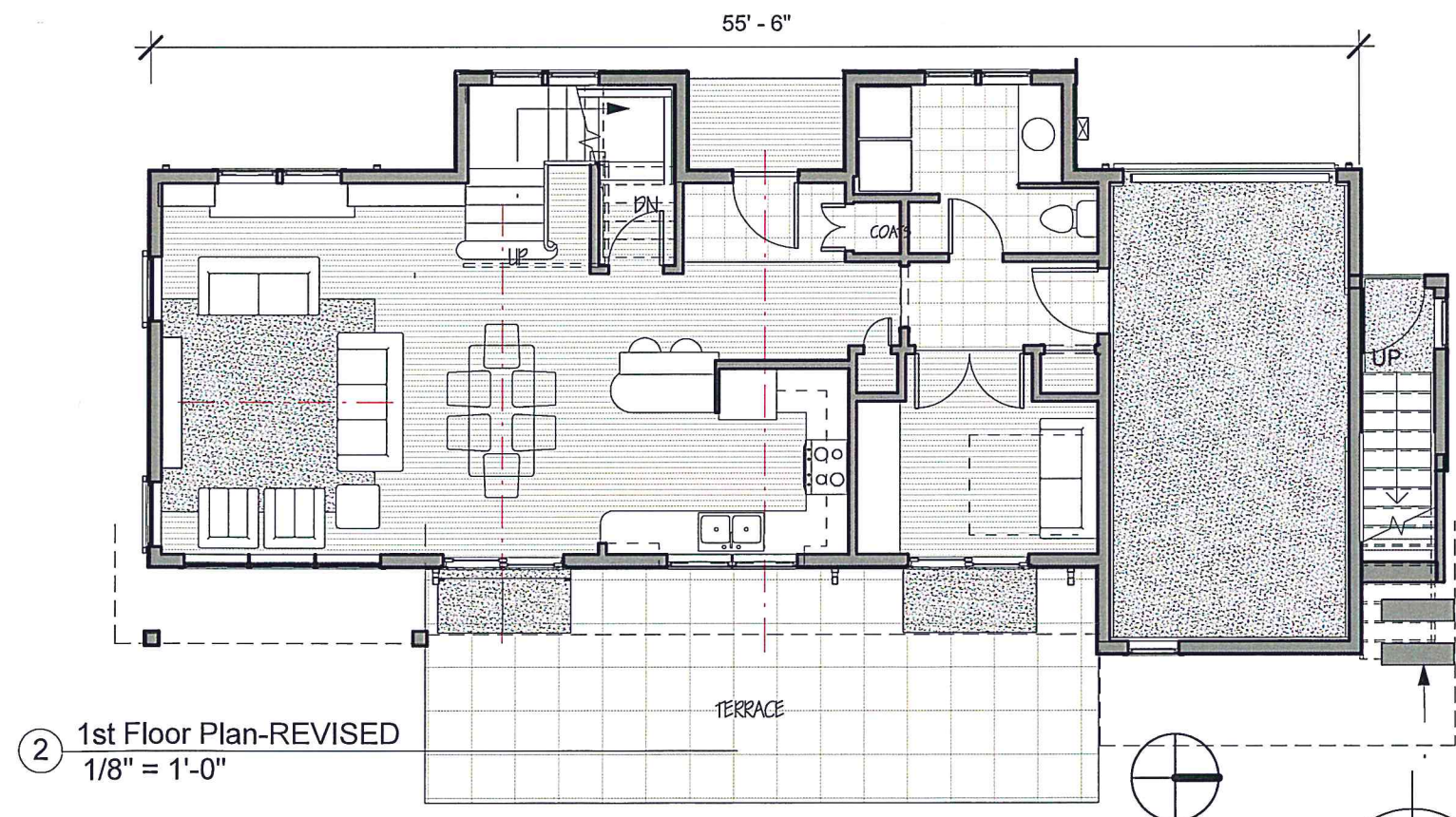
**BUILDING** - 1198.31sf  
**DECKS** - 68.25sf  
**TOTAL** - 1266.56sf

## FINISH FLOOR

HOUSE:		APARTMENT	
1ST -	902.29sf	1ST -	35.90sf
2ND -	699.89sf	2ND -	494.93sf
3RD -	224.86sf	3RD -	
<b>TOTAL - 1827.04sf</b>		<b>TOTAL - 530.83sf</b>	



① 2nd Floor -REVISED  
1/8" = 1'-0"



② 1st Floor Plan-REVISED  
1/8" = 1'-0"

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**BRAD RABINOWITZ ARCHITECT**

200 MAIN STREET BURLINGTON VT  
 802 658 0430 T 802 863 6876 F  
[www.bradrabinowitzarchitect.com](http://www.bradrabinowitzarchitect.com)

design:

**Senecal at Appletree Point**  
 BURLINGTON, VERMONT

**FLOOR PLANS 451 - REVISION DEC 23**

As indicated

12/23/2015  
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**R.6**



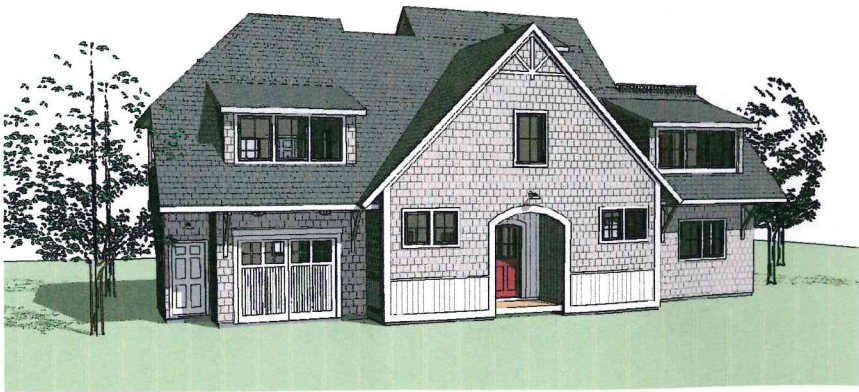
RECEIVED

MAR 27 2015

DEPARTMENT OF  
PLANNING & ZONING



5 View From South East  
12" = 1'-0"



DRAWING INDEX: PROGRESS ISSUE		
AT.1	TITLE SHEET	
	DRAWINGS 1-5 KREBS AND LANSING	
1	BOUNDRY LINE ADJUSTMENT	
2	SITE AND UTILITY PLAN	
3	SANITARY FORCE MAIN PLAN	
4	UTILITY PROFILES	
5	DETAILS	
	DRAWING L1 CYNTHIA KNAUF	
L1-0	PLANTING PLAN	
A1.1	FIRST FLOOR PLAN	
A1.2	SECOND AND LOFT FLOOR PLAN	
A2.1	EXTERIOR ELEVATIONS	
A3.1	BUILDING SECTIONS	
A3.2	BUILDING SECTIONS	
A4.1	WALL DETAILS	
A6.1	STAIR DETAILS	

Prior approval

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REVIEW ISSUE: MARCH 12, 2015



BRAD RABINOWITZ ARCHITECT  
200 MAIN STREET BURLINGTON, VERMONT 05401  
802 658 0430 T 802 883 8876 F  
www.bradrabinowitzarchitect.com

Design:  
**SENECAL Residence at Appletree Point**  
BURLINGTON, VERMONT

DRAWING TITLE:  
**3D Views & DRAWING  
INDEX - 451**

DATE REVISION

AT.1

As indicated  
November 11, 2014

## Department of Planning and Zoning

149 Church Street  
Burlington, VT 05401  
Telephone: (802) 865-7188  
(802) 865-7195 (FAX)  
(802) 865-7142 (TTY)

*David White, AICP, Director*  
*Meagan Tuttle, AICP, Comprehensive Planner*  
*Jay Appleton, GIS Manager*  
*Scott Gustin, AICP, CFM, Principal Planner*  
*Mary O'Neil, AICP, Principal Planner*  
*Ryan Morrison, CFM, Associate Planner*  
*Anita Wade, Zoning Clerk*  
*Elsie Tillotson, Department Secretary*



**TO:** Development Review Board  
**FROM:** Scott Gustin   
**DATE:** April 19, 2016  
**RE:** 15-0923CA; 465 Appletree Point Road (Remand)

---

**Note:** These are staff comments only; decisions on projects are made by the Development Review Board, which may approve, deny, table or modify any project. **THE APPLICANT OR REPRESENTATIVE MUST ATTEND THE MEETING.**

Zone: WRL                      Ward: 4N

Owner/Applicant: Al Senecal / Brad Rabinowitz

**Request:** Remand review – Construct new single family home and associated site improvements. Lot line adjustment included.

### **Applicable Regulations:**

Article 3 (Applications and Reviews), Article 4 (Maps & Districts), Article 5 (Citywide General Regulations), Article 6 (Development Criteria & Guidelines), Article 8 (Parking), Article 10 (Subdivision)

### **Background Information:**

On July 21, 2015, the applicant received approval to construct a new duplex and related site improvements on this vacant lot. That approval was appealed to the VT Superior Court Environmental Division. Prior to trial, the parties arrived at an agreement for a scaled back proposal. The matter has been remanded to the Development Review Board for final approval.

Revisions include:

- Change from duplex to single family home with accessory apartment
- Reduce size of building footprint by ~ 15%
- Move building back another 5' from the front property line (30' instead of 25' setback)

Previous zoning actions for this property are as follows:

- 7/21/15, Approval for construction of new duplex and related site improvements
- 7/1/14, Approval of front yard setback variance
- 7/26/04, Approval of 2-lot subdivision
- 1/13/04, Denial of 3-lot subdivision

**Recommendation:** Consent approval as per, and subject to, the following findings and conditions:

### **I. Findings**

#### **Article 3: Applications and Reviews**

**Part 5, Conditional Use & Major Impact Review:**

**Sec. 3.5.6, Review Criteria**

**(a) Conditional Use Review Standards**

*1. Existing or planned public utilities, facilities or services are capable of supporting the proposed use in addition to the existing uses in the area;*

The proposed development will require municipal water and sewer service. A municipal water line already runs by the property. A new pump station and force main will be installed to connect to the municipal wastewater system. Review and approval by the Department of Public Works will be required. A State of Vermont wastewater permit has already been obtained. **(Affirmative finding as conditioned)**

*2. The character of the area affected as defined by the purpose or purposes of the zoning district(s) within which the project is located, and specifically stated policies and standards of the municipal development plan;*

The property is located on the east-facing side of Appletree Point within the Waterfront Residential Low Density (WRL) zone. The subject property is presently vacant. Several homes are located along the western side of the point; however, much of the peninsula is undeveloped. As with the Residential Low Density zone, the WRL zone is primarily intended for low density residential development in the form of detached single family homes and duplexes. The WRL zone is distinguished by its close proximity to the lake and a greater consideration of public views from the lake and stormwater runoff. The proposed single family home with accessory apartment is consistent with the intent of the WRL zone. Most of the proposed home will be set back 20' – 40' from the 100' lakeshore elevation (a rear porch will reach as close at 17'), and much of the existing vegetation along the lakeshore will be retained. Stormwater management has been reviewed and approved by the Stormwater Administrator. **(Affirmative finding)**

*3. The proposed use will not have nuisance impacts from noise, odor, dust, heat, and vibrations greater than typically generated by other permitted uses in the same zoning district;*

The proposed single family home with accessory apartment is not expected to generate any such nuisance impacts. **(Affirmative finding)**

*4. The transportation system is capable of supporting the proposed use in addition to the existing uses in the area. Evaluation factors include street designations and capacity; level of service and other performance measures; access to arterial roadways; connectivity; transit availability; parking and access; impacts on pedestrian, bicycle, and transit circulation; safety for all modes; and adequate transportation demand management strategies.*

The new home and apartment will generate additional vehicular traffic; however, impacts will be minimal. Traffic impact fees will be paid to help offset what impacts there are. **(Affirmative finding as conditioned)**

*5. The utilization of renewable energy resources;*

The utilization of alternative energy has not been incorporated into this proposal. The proposed construction does not preclude such utilization in the future. **(Affirmative finding)**

**(b) Major Impact Review Standards**  
**(Not applicable)**

**(c) Conditions of Approval:**

*In addition to imposing conditions of approval necessary to satisfy the General Standards specified in (a) or (b) above, the DRB may also impose additional conditions of approval relative to any of the following:*

*1. Mitigation measures, including but not limited to screening, landscaping, where necessary to reduce noise and glare and to maintain the property in a character in keeping with the surrounding area.*

Nothing in this revised proposal is expected to generate offsite noise or glare substantial enough to require mitigation. **(Affirmative finding)**

*2. Time limits for construction.*

The project is to be constructed within the standard 2-year timeframe. **(Affirmative finding)**

*3. Hours of operation and/or construction to reduce the impacts on surrounding properties.*

Hours of operation do not apply to the proposed residence. No construction schedule is proposed. Other projects with nearby residences have days and hours of construction limited to Monday-Friday 7:00 am – 6:00 pm. Limited work may extend outside this schedule to extend to Saturday 9:00 AM – 5:00 PM only after obtaining approval from the Development Review Board through correspondence rather than a scheduled hearing. No construction on Sunday. **(Affirmative finding as conditioned)**

*4. That any future enlargement or alteration of the use return for review to the DRB to permit the specifying of new conditions; and,*

Any future enlargement or alteration will be reviewed under the zoning regulations in effect at that time.

*5. Such additional reasonable performance standards, conditions and safeguards, as it may deem necessary to implement the purposes of this chapter and the zoning regulations.*

See recommended conditions of approval.

#### **Article 4: Maps & Districts**

##### **Sec. 4.4.5, Residential Districts:**

###### ***(a) Purpose***

###### ***(2) Waterfront Residential Low Density (WRL)***

The subject property is located in the WRL zone. This zone is intended primarily for low density residential development in the form of single detached dwellings and duplexes with consideration given to design review. The proposed home is consistent with this purpose. **(Affirmative finding)**

###### ***(b) Dimensional Standards & Density***

The property, with the lot line adjustment with neighboring 451 Appletree Point Rd, will have 180' of road frontage and 17,417 sf area. Both well above the 75' and 9,900 sf, respectively, needed for a single family home in the Larger Lot Overlay that affects this property.

The 1 primary residential unit proposed on the 0.4 acre lot is acceptable. 4.4 dwelling units/acre are allowed within the Larger Lot Overlay. Accessory apartments do not count towards density.

Proposed lot coverage will decline slightly to 27.7%, well below the 35% limit permitted

The proposed front yard setback has been pushed back to 30' rather than 25' as originally approved. The minimum side yard setback is 18.' As proposed, the home is 30' at its closest to a side property line. There is no rear yard setback; rather, there is a waterfront setback. The standard waterfront setback requirement is 75'; however, as noted during review of the July 2014 variance request, there are exceptions as noted in (d) *District Specific Regulations*, 1 below. As proposed, the new home would be set back an acceptable 17' from the 100' elevation, depending on the curvature of the shoreline.

The midpoint of the roof appears to be about 25.' The very peak of the structure is 31', below the 35' height limit. **(Affirmative finding)**

***(c) Permitted & Conditional Uses***

The proposed single family home is a permitted use in the WRL zone. The accessory apartment, as new construction, triggers conditional use review. Conditional use criteria are addressed under Article 3 above. **(Affirmative finding)**

***(d) District Specific Regulations***

***1. Setbacks***

***B. Encroachment into the Waterfront Setback.***

***(ii) Averaging of Setbacks of Existing Structures***

This criterion allows new construction to observe a waterfront setback based on the average waterfront setback of existing principal structures within 150.' In this case, the existing camp on neighboring 451 Appletree Point Rd is set back 17' from the 100' lakeshore elevation. The proposed home will be set back 17.' As noted previously, this 17' setback will be for the waterfront porch. The bulk of the structure will be set further back (20' – 40').

While the degree of encroachment into the 75' waterfront setback is particularly important for the neighboring property at 451 Appletree Point Road, it is not as important for this property. On 451, the new building footprint is limited to the area of existing building footprints. On this vacant property; however, the new building must only be located behind the 17' waterfront setback established by the existing camp at 451. There is no limitation on the area of encroachment. Of course, standard lot coverage limits apply and have been adhered to. **(Affirmative finding)**

***2. Height***

No height bonuses are being sought. **(Not applicable)**

***3. Lot Coverage***

No lot coverage bonuses are being sought. **(Not applicable)**

***4. Accessory Residential Structures and Uses***

The attached garage has a footprint of ~720 sf; less than 50% of the main home's 2,149 sf footprint. **(Affirmative finding)**

***5. Residential Density***

The new home is subject to the functional family provisions of the Comprehensive Development Ordinance. **(Affirmative finding)**



## **6. Uses**

No neighborhood commercial use is included in this proposal. **(Not applicable)**

## **7. Residential Development Bonuses**

No development bonuses are being sought. **(Not applicable)**

### ***Sec. 4.5.4, Natural Resource Protection Overlay (NR) District***

#### ***(c) District Specific Regulations: Riparian and Littoral Conservation Zone***

The subject property is wholly affected by the Riparian and Littoral Conservation Zone (250' width from the 100' lakeshore elevation). This overlay zone limits the clearing of vegetation and new stormwater outfalls. As proposed, some dead or dying trees will be removed, but most of the existing vegetation along the lakeshore will be retained. The project plans clearly depict vegetation to be removed or retained. No new stormwater outfalls are proposed. A basic stormwater management plan has been reviewed and approved by the Stormwater Administrator (see Sec. 5.5.3). The Conservation Board reviewed the prior duplex proposal under this criterion and recommended project approval as proposed. **(Affirmative finding)**

#### ***(f) District Specific Regulations: Special Flood Hazard Area***

This lakeshore property is partially affected by the special flood hazard area (SFHA). All areas along the lakeshore under the 102' elevation are within the SFHA. Except for a new stairway to the water, none of the proposed construction will take place within the SFHA. **(Affirmative finding)**

## **Article 5: Citywide General Regulations**

### ***Sec. 5.2.3, Lot Coverage Requirements***

See Sec. 4.4.5 (b) above.

### ***Sec. 5.2.4, Buildable Area Calculation***

**(Not applicable)**

### ***Sec. 5.2.5, Setbacks***

See Sec. 4.4.5 (b) above.

### ***Sec. 5.2.6, Building Height Limits***

See Sec. 4.4.5 (b) above.

### ***Sec. 5.2.7, Density and Intensity of Development Calculations***

See Sec. 4.4.5 (b) above.

### ***Sec. 5.4.5, Accessory Dwelling Units***

#### ***(a) Accessory Units, General Standards/Permitted Uses:***

*Where there is a primary structure on a lot which exists as an owner-occupied single family residence, one accessory dwelling unit, that is located within or appurtenant to such single family dwelling, shall be allowed as a permitted use if the provisions of this subsection are met. An accessory dwelling unit means an efficiency or one bedroom apartment that is clearly subordinate to the primary dwelling, and has facilities and provisions for independent living, including sleeping, food preparation, and sanitation. No accessory unit shall be inhabited by more than 2*

*adult occupants. An accessory unit shall not be counted as a dwelling unit for the purposes of density calculation. Additionally, there must be compliance with all the following:*

1. *The property has sufficient wastewater capacity as certified by the department of public works;*  
Sufficient wastewater capacity is available. A letter of capacity has been issued by the Department of Public Works. **(Affirmative finding)**
2. *The unit does not consist of more than 30 percent of the total habitable floor area of the building, inclusive of the accessory dwelling unit;*  
The total area of the proposed residence is 3,038 sf. The 1-bedroom apartment is 628 sf (20.7% of the entire area). **(Affirmative finding)**
3. *Applicable setback and coverage requirements are met;*  
See Sec. 4.4.5 (b).
4. *One additional parking space which may be legally allocated to the accessory unit must be provided for the accessory unit; and,*  
As proposed, there is room for 4 vehicles to park onsite. One of these spaces will serve the accessory apartment. **(Affirmative finding)**
5. *A deed or instrument for the property shall be entered into the land records by the owner containing a reference to the permit granting the accessory unit prior to the issuance of the certificate of occupancy for the unit. Such reference shall identify the permit number and note that the property is subject to the permit and its terms and conditions including owner occupancy. No certificate of occupancy shall be issued for the unit unless the owner has recorded such a notice.*  
This requirement is a condition of permit approval. **(Affirmative finding as conditioned)**

***(b) Conditional Use Approval for Accessory Units:***

If any of the following are also proposed, conditional use approval, as well as development review provisions of Article 6 shall be required:

1. *A new accessory structure;*  
**(Not applicable)**
2. *An increase in the height or habitable floor area of the existing dwelling;*  
New construction is proposed, thereby triggering conditional use review. See Article 3.  
**(Affirmative finding)**
3. *An increase in the dimensions of any parking area;*  
**(Not applicable)**

***Sec. 5.5.1, Nuisance Regulations***

Nothing in the proposal appears to result in creating a nuisance under this criterion. **(Affirmative finding)**

***Sec. 5.5.2, Outdoor Lighting***

No revisions to outdoor lighting have been made. As previously approved, new outdoor lighting mirrors that at 451 Appletree Point Road. It consists of building mounted fixtures to illuminate building entries and post and bollard fixtures to illuminate the circulation area and new stairs to the lakeshore. Locations are noted, and cutsheets have been provided. All are acceptable residential fixtures generating low levels of illumination. **(Affirmative finding)**

#### ***Sec. 5.5.3, Stormwater and Erosion Control***

No revisions to stormwater management or erosion control have been made. As more than 400 sf of earth disturbance is proposed, a “small project erosion control” form has been provided. A residential stormwater management plan has also been provided. Stormwater management is basic and amounts to directing runoff onto pervious surfaces for infiltration. Both were reviewed and approved by Conservation Board and the Stormwater Administrator. Those approvals are incorporated into this permit. **(Affirmative finding as conditioned)**

### **Article 6: Development Review Standards**

Note that the project revisions do not materially affect the criteria of Article 6. Except for correcting reference to duplex (now single family home with accessory apartment) and revised dimensional numbers, these findings are unchanged from the original duplex approval.

#### ***Part 1, Land Division Design Standards***

No land division is included in this proposal; however, a lot line adjustment between this property and neighboring 451 Appletree Point Road is proposed. The proposed adjustment is of the common side property boundary and will not affect any of the criteria under this section. **(Affirmative finding)**

#### ***Part 2, Site Plan Design Standards***

##### ***Sec. 6.2.2, Review Standards***

###### ***(a) Protection of important natural features***

As with neighboring 451 Appletree Point Road, this lakeshore site is lightly wooded. Some tree removal is proposed as noted on the landscape and planting plan; however, a number of the existing trees will remain. The lakeshore itself is a significant natural feature and is protected by the riparian and littoral conservation zone. This overlay limits tree clearing and also requires stormwater management. Stormwater management information has been provided. As required, the proposed construction has been reviewed and approved by the Conservation Board and the city’s stormwater program staff. **(Affirmative finding)**

###### ***(b) Topographical alterations***

The property slopes gently towards the lake and then drops significantly down to the lake along the immediate shoreline. The site of the proposed home is generally flat and will remain so. A soils analysis has been done, and no blasting is proposed. **(Affirmative finding)**

###### ***(c) Protection of important public views***

The subject property is not affected by any identified public view corridor. This criterion is typically applied to developments fronting such corridors. An individual interested in this application has asserted that, in light of the design review considerations of the WRL zone, views of the construction from the lake should be considered. This criterion is written broadly enough that that assertion may be well based. The proposed home will indeed be visible from the lake.

Virtually any construction would be. The new home will be set back and behind existing lakeshore vegetation. **(Affirmative finding)**

*(d) Protection of important cultural resources*

The property is within an archaeologically sensitive area; however, there are no specifically identified archaeological sites on the property. This archaeological sensitivity stems from the property's lakeshore location. If, during construction, artifacts are unearthed, it is the applicant's responsibility to stop earthwork and to contact the Vermont Division for Historic Preservation for further guidance. **(Affirmative finding)**

*(e) Supporting the use of alternative energy*

There is no indication that the proposed home will utilize alternative energy. Solar energy utilization is encouraged. In any event, the home will not adversely impact the actual or potential use of alternative energies by neighboring properties. **(Affirmative finding)**

*(f) Brownfield sites*

The subject property is not an identified brownfield. **(Affirmative finding)**

*(g) Provide for nature's events*

As total lot coverage will exceed 2,500 sf, a residential stormwater plan has been provided. All of the impervious surface associated with this project is disconnected from the municipal stormwater system, and stormwater will infiltrate into the ground as it does now. As noted above, the city's stormwater program has reviewed the proposed stormwater management.

The front entrance into the home is sheltered within an open porch, and ample room is available onsite for seasonal snow storage. **(Affirmative finding)**

*(h) Building location and orientation*

The proposed residence is relatively far from existing homes on Appletree Point Road (~ 360' from 395 Appletree Point Rd and ~ 220' from 440 Appletree Point Rd). It will be set 30' from the road – the same front setback as that of the to-be-built neighboring home at 451 Appletree Point Road. Its main entrance faces the road and is clearly identifiable. The open front porch provides an obvious and welcoming entry into the home. The secondary entrance (into the 2nd unit) is also within the front porch but oriented towards the north. The attached garage faces north, to the side. It is not oriented towards the road. **(Affirmative finding)**

*(i) Vehicular access*

A private driveway will provide adequate access to the home. It will access the two-bay attached garage. A turn-around is provided within the driveway and is set to the side of the home. **(Affirmative finding)**

*(j) Pedestrian access*

A stone front walkway is proposed and will connect to the private road. **(Affirmative finding)**

*(k) Accessibility for the handicapped*

No handicap accessibility is evident or required with this proposal. **(Affirmative finding)**

*(l) Parking and circulation*

Four parking spaces are provided; two in the driveway and two in the attached garage. These spaces meet the minimum parking requirement of 2 spaces for the primary dwelling and 1 space for the apartment. Circulation is simple with access provided to the garage and surface parking spaces. **(Affirmative finding)**

*(m) Landscaping and fences*

Clearing limits are depicted. Much of the existing vegetation will be retained. New landscaping is proposed and consists of a variety of shrubs and two new cherry trees on either side of the driveway. As with the neighboring property to the north, much of the new landscaping is proposed along the roadside and will provide some buffering between the new home and the road. No new fencing is proposed; however, a boulder wall will be installed along a portion of the lakeshore. Topographic information indicates the bottom of this wall will be above the 102' elevation and out of the lake's flood zone. New concrete stairs will provide access to the lakeshore. **(Affirmative finding)**

*(n) Public plazas and open space*

No public plaza or open space is included or required in this proposal. **(Not applicable)**

*(o) Outdoor lighting*

See Sec. 5.5.2.

*(p) Integrate infrastructure into the design*

New utility lines must be buried. No mechanical equipment is depicted on the plan; however, the applicant has noted that an AC compressor will be located behind the building. This item must be depicted on the site plan. **(Affirmative finding as conditioned)**

**Part 3, Architectural Design Standards**

**Sec. 6.3.2, Review Standards**

*(a) Relate development to its environment*

*1. Massing, Height, and Scale*

The overall size of the home has been reduced. As revised, the massing, height, and scale of the proposed home remain consistent with that of existing homes along Appletree Point Road. The proposed shingle style home faces the road with a well-defined front entry. Varying rooflines, dormers, and distinct building sections serve to articulate separate volumes within the overall structure. **(Affirmative finding)**

*2. Roofs and Rooflines*

Gable roofs are proposed, albeit on different plans. Several dormers project from the upper roofs. The proposed roof forms are appropriately residential. **(Affirmative finding)**

*3. Building Openings*

The primary front entrance is clearly articulated and is sheltered by an open front porch. Fenestration is appropriately scaled and placed in consistent rhythm throughout the building. **(Affirmative finding)**

*(b) Protection of important architectural resources*

There are no historic structures on the subject property or nearby. Construction of the proposed home will have no adverse impacts on Burlington's historic structures. **(Affirmative finding)**



*(c) Protection of important public views*

See 6.2.2 (c) above.

*(d) Provide an active and inviting street edge*

The front entry to the proposed home is clearly articulated and faces the road. There are no large blank walls or expanses of roof. Fenestration, roof variations, and architectural detailing work successfully to provide an active and inviting street elevation. **(Affirmative finding)**

*(e) Quality of materials*

The proposed home will be clad in cedar shingles with tongue-and-grove siding accents. Painted white AZEK trim is noted. Asphalt shingles will be installed on most of the roofs; however, standing seam metal will be installed on the dormers. Combination fiberglass and wood windows will be installed. A natural stone veneer will be installed along the base of the attached garage. The materials proposed are of acceptable quality and durability. **(Affirmative finding)**

*(f) Reduce energy utilization*

The proposed building must comply with the current energy efficiency standards of Burlington and the State of Vermont. **(Affirmative finding as conditioned)**

*(g) Make advertising features complimentary to the site*

No advertising is included in this proposal. **(Not applicable)**

*(h) Integrate infrastructure into the building design*

Utility meters will be appropriately located on a side elevation near the entrance to the apartment. **(Affirmative finding)**

*(i) Make spaces safe and secure*

The proposed building must comply with the city's current egress requirements. Building entries will be illuminated. **(Affirmative finding)**

## **Article 8: Parking**

### ***Sec. 8.1.8, Minimum Off-Street Parking Requirements***

The subject property is located in the neighborhood parking district. As such, the single family home requires 2 parking spaces. The accessory apartment requires 1 parking space. All of the parking spaces will be provided onsite; 2 in the garage and 2 within the driveway. **(Affirmative finding)**

## **Article 10: Subdivision**

Note that the project revisions do not materially affect the criteria of Article 10. This item remains unchanged.

No subdivision of land is included in this proposal; however, a lot line adjustment with neighboring 451 Appletree Point Rd is included. A boundary line adjustment plan clearly depicts the proposed boundary adjustment. The required endorsement block for the Administrative Officer's signature per Sec. 10.1.5, *Lot Line Adjustments*, (a) is missing. All of the signature

blocks provided relate to subdivisions and should be deleted (except for the surveyor's endorsement). (**Affirmative finding as conditioned**)

## **II. Conditions of Approval**

1. **Prior to release of the zoning permit**, revised plans shall be submitted subject to staff review and approval. Revised plans shall depict:
  - a. The proposed AC compressor; and,
  - b. The required Administrative Officer's signature block per Sec. 10.1.5.
2. **Prior to release of the zoning permit**, the new pump station and force main shall be reviewed and approved by the Department of Public Works.
3. This permit incorporates the EPSC and Stormwater Management approvals issued by the Stormwater Administrator on April 3, 2015.
4. Days and hours of construction shall be limited to Monday-Friday 7:00 am – 6:00 pm. Limited work may extend outside this schedule to extend to Saturday 9:00 AM – 5:00 PM only after obtaining approval from the Development Review Board through correspondence rather than a scheduled hearing. No construction on Sunday
5. In the event that artifacts are uncovered during excavation, it is the applicant's responsibility to contact the Vermont Division for Historic Preservation for further guidance.
6. The Applicant/Property Owner is responsible for obtaining all necessary Zoning Permits and Building Permits through the Department of Public Works as well as other permit(s) as may be required, and shall meet all energy efficiency codes of the city and state as required.
7. A deed or instrument for the property shall be entered into the land records by the owner containing a reference to the permit granting the accessory unit **prior to the issuance of the certificate of occupancy** for the unit. Such reference shall identify the permit number and note that the property is subject to the permit and its terms and conditions including owner occupancy. No certificate of occupancy shall be issued for the unit unless the owner has recorded such a notice.
8. At least **7 days prior to the issuance of a certificate of occupancy**, the applicant shall pay to the Planning & Zoning Department the impact fee as calculated by staff based on the new square footage of the proposed development.
9. Standard permit conditions 1-15.



## BRAD RABINOWITZ ARCHITECT

*Architecture*  
*Space Planning*  
*Interior Design*

JOB MEMO: 465 Appletree Point Road  
RE: Amendment of Existing DRB Approval  
DATE: March 11, 2016  
TO: Scott Gustin  
FROM: Brad Rabinowitz

---

Attached are revised drawings for 465 Appletree Point Road. We are requesting that the existing approval be amended as noted below. Note that in all cases the impact, size, coverage etc is being reduced from the existing approvals.

### 465 Appletree Point Road:

1. The road front setback is being increased from 25' to 30'.
  - a. Note that this distance is measured from the road centerline.
  - b. The property line is in the roadway and thus part of the road counts as lot coverage and is included in this revision as it was included in the original approved application.
  - c. The house footprint has been reduced so that the house will be no closer to the lake with this increase in road setback.
2. The building footprint has been reduced by about 15%.
  - a. This is included in the site calculations and results in a change in lot coverage from 29.8% to 27.7%.
3. The approval was for a duplex on this property. A change is being requested to approve this as an accessory apartment rather than a duplex.
  - a. The apartment size as originally submitted meets the restrictions of an accessory apartment.

cc Al Senecal

200 Main Street  
Burlington, Vermont 05401  
(802) 658-0430, Fax (802) 863-6876  
[www.bradrabinowitzarchitect.com](http://www.bradrabinowitzarchitect.com)

Senecal-0311-16-465



W. Eastman  
Volume 229 Page 17  
February 7, 1975

## 465 APPLETREE POINT

**451 APPLETREE POINT**

NOTE: 409 SF OF DECKS ARE NOT INCLUDED IN 465 AS THEY ARE PART OF THE ALLOWED 10% BONUS IN THIS DISTRICT

NOTE: 409 SF OF DECKS ARE NOT INCLUDED IN 465 AS THEY ARE PART OF THE ALLOWED 10% BONUS IN THIS DISTRICT

February 7, 1975

TBM  
Nail in PF  
Elev. = 109.36

**NOTE:**  
DRIVEWAY TO  
BE REVISED  
TO MAINTAIN  
TREE

**NOTE:**  
**SHADED ARE REPRESENTS**  
**A 5% REDUCTION IN SIZE**  
**HOUSE IS ROTATED +/- 2 DEGREES**  
**TO ACCOMMODATE THE REQUESTED**  
**30' SETBACK IN PLACE OF THE**  
**PERMITTED 25' SETBACK.**

**SHADED AREA  
REPRESENTS THE 15%  
REDUCTION IN HOUSE  
SIZE**

① Site -Proposed  
1" = 30'-0"

NOTE:  
THIS PLAN IS INTENDED TO SHOW THE PROPOSED REDUCTION IN SIZE  
AND FOOTPRINT OF 465 AND COMPLIANCE WITH THE PROPOSED  
30' SETBACK IN PLACE OF THE APPROVED 25' SETBACK.  
THE FINAL PLAN MAY ADJUST THE LOCATIONS BUT THE HOUSES  
WILL BE NO CLOSER TO THE ROAD THAN SHOWN HERE

**BRAD RABINOWITZ ARCHITECT**

200 MAIN STREET BURLINGTON VT  
802 658 0430 T 802 863 6876 F  
[www.bradrabinowitzarchitect.com](http://www.bradrabinowitzarchitect.com)

design:

# Senecal Residence

## Site-451& 465 Appletree Pt Rd-SCHEMATIC REVISIONS

As indicated

DECEMBER 23,  
2015

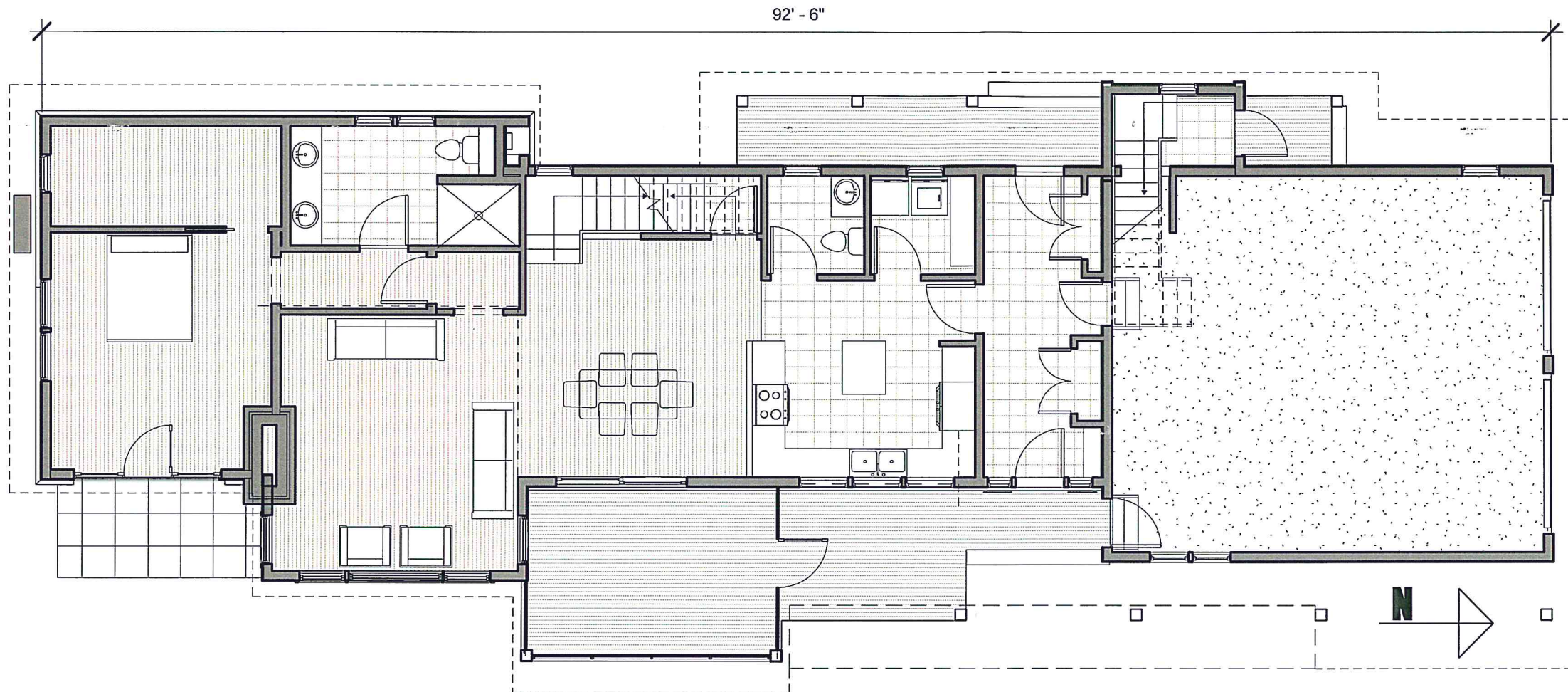
**SR.1)**

**LOCATION STUDY FOR 465 FEBRUARY 12, 2015**









1 First Floor  
1/8" = 1'-0"

## BUILDING FOOTPRINT

<b>BUILDING -</b>	<b>2121.0 sf</b>
<b>DECKS -</b>	<b>409.0 sf</b>
<b>TOTAL -</b>	<b>2530.0 sf</b>

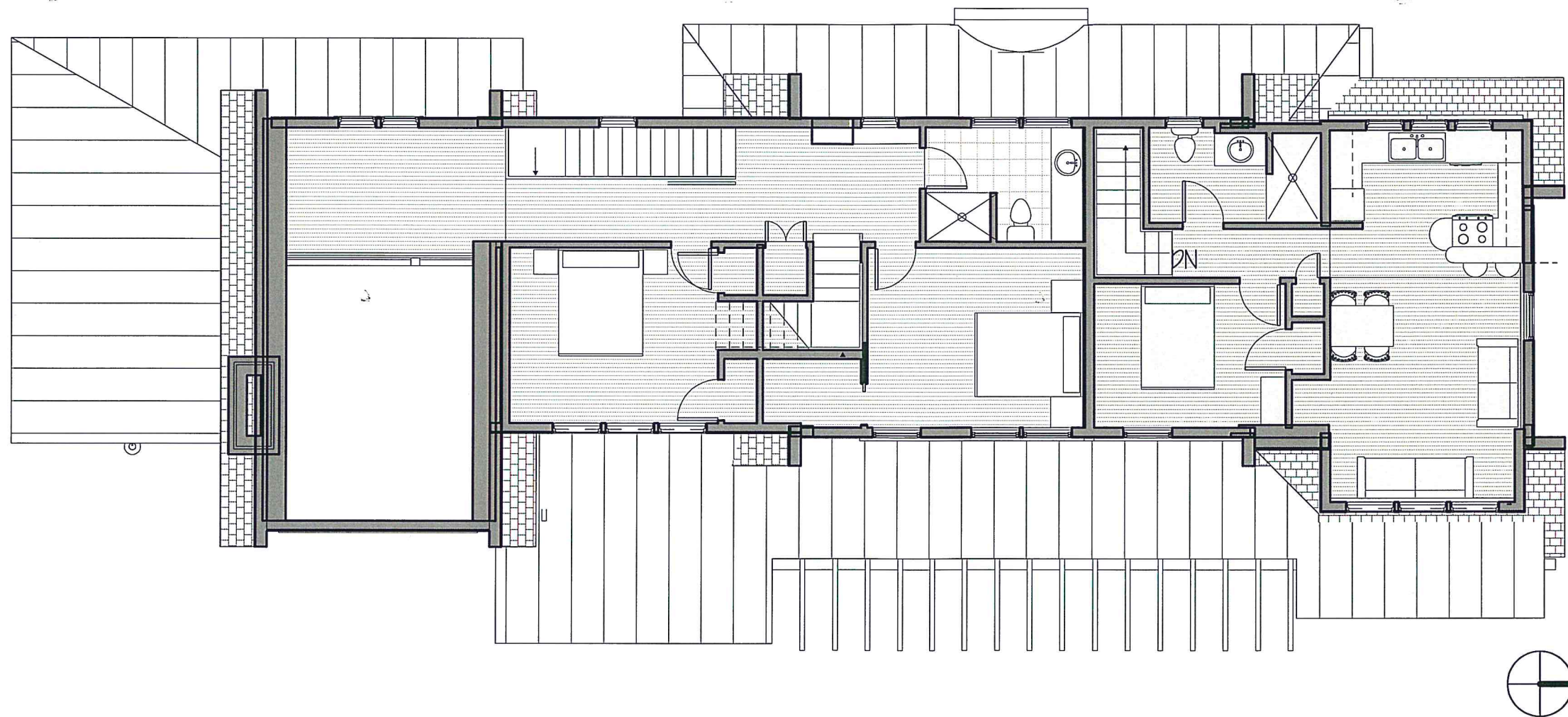
## FINISH FLOOR

HOUSE:		APARTMENT	
1ST -	1459.8 sf	1ST -	42.0 sf
2ND -	761.4 sf	2ND -	585.8 sf
3RD -	189.4 sf	3RD -	
<b>TOTAL -</b>	<b>2410.6 sf</b>	<b>TOTAL -</b>	<b>627.8 sf</b>

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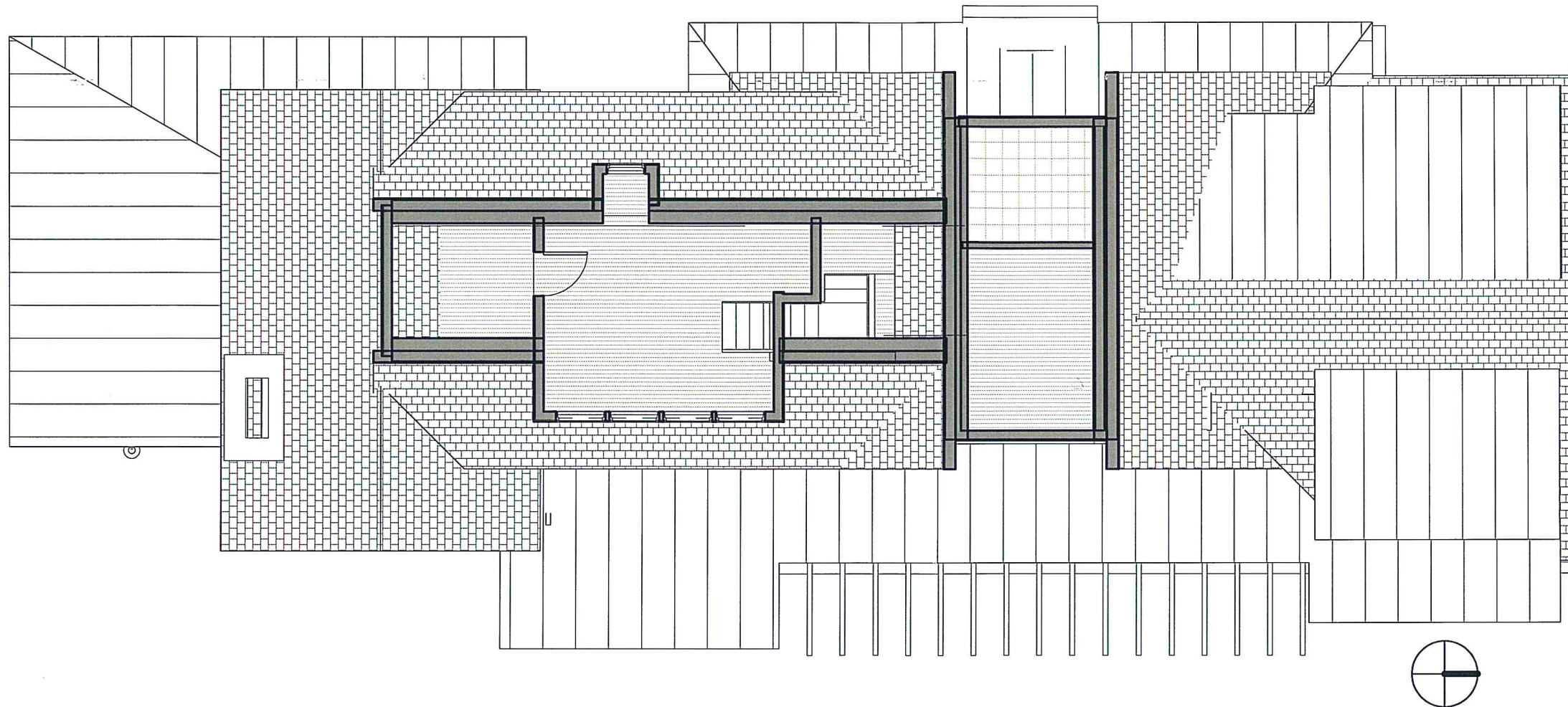
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① Second Floor  
1/8" = 1'-0"

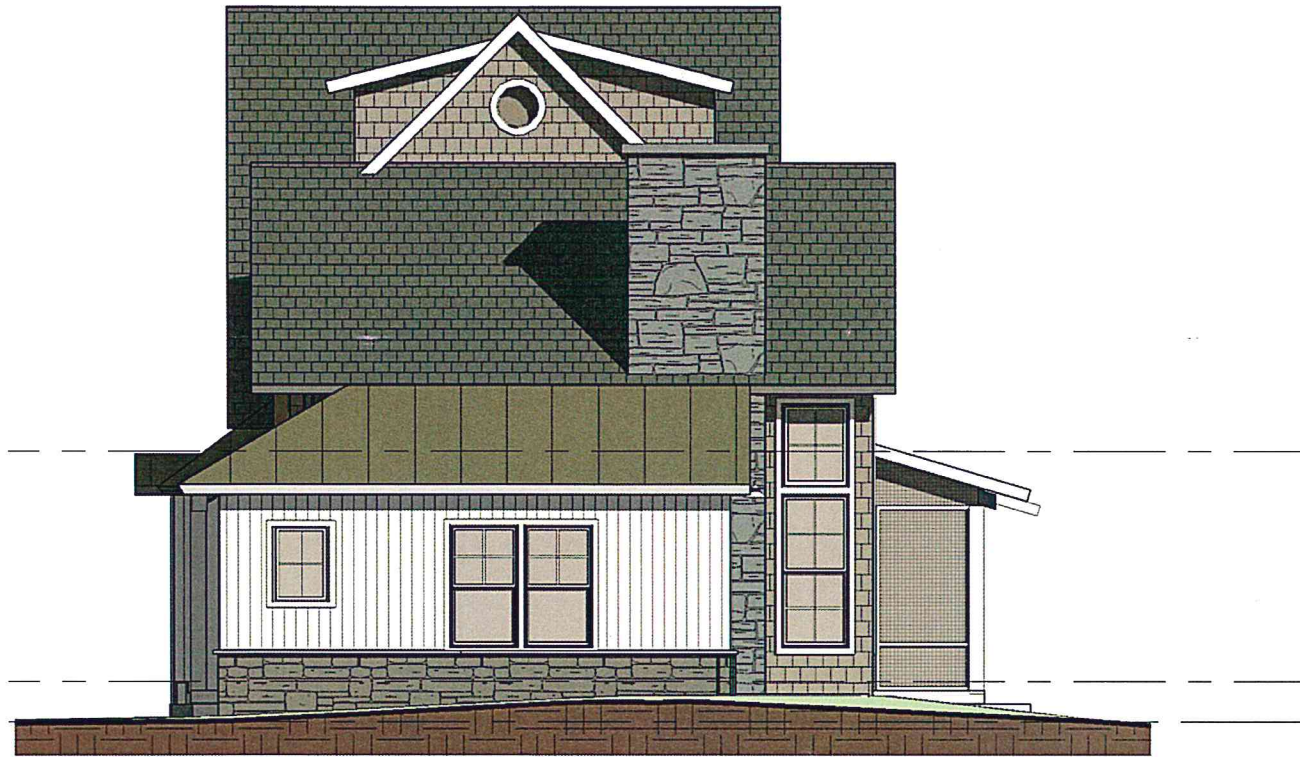


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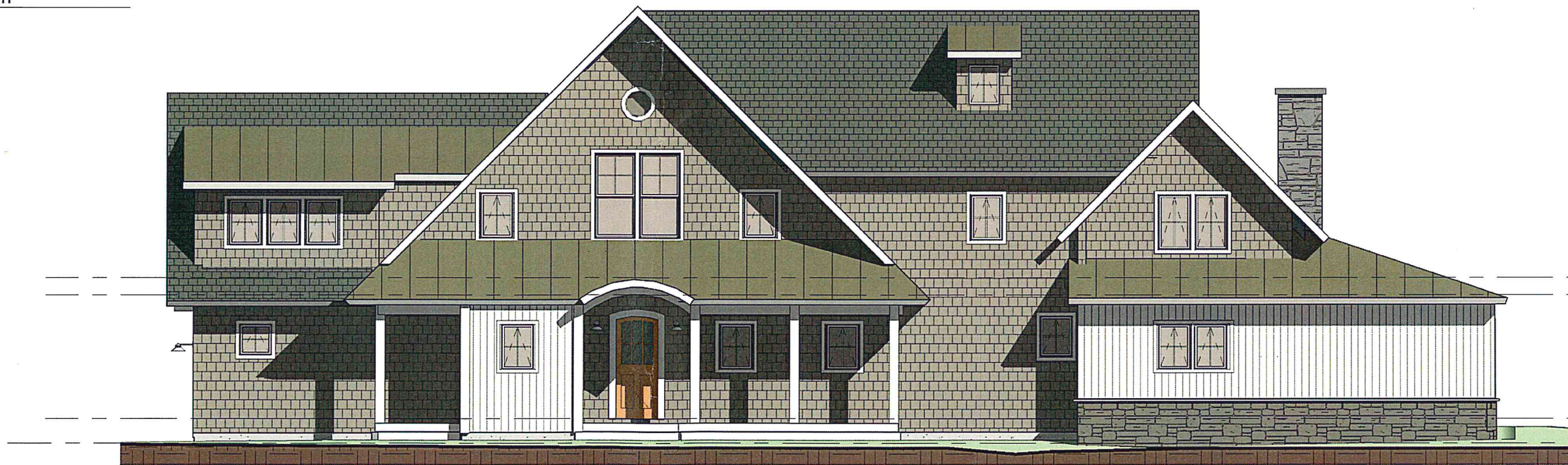


① Loft  
1/8" = 1'-0"





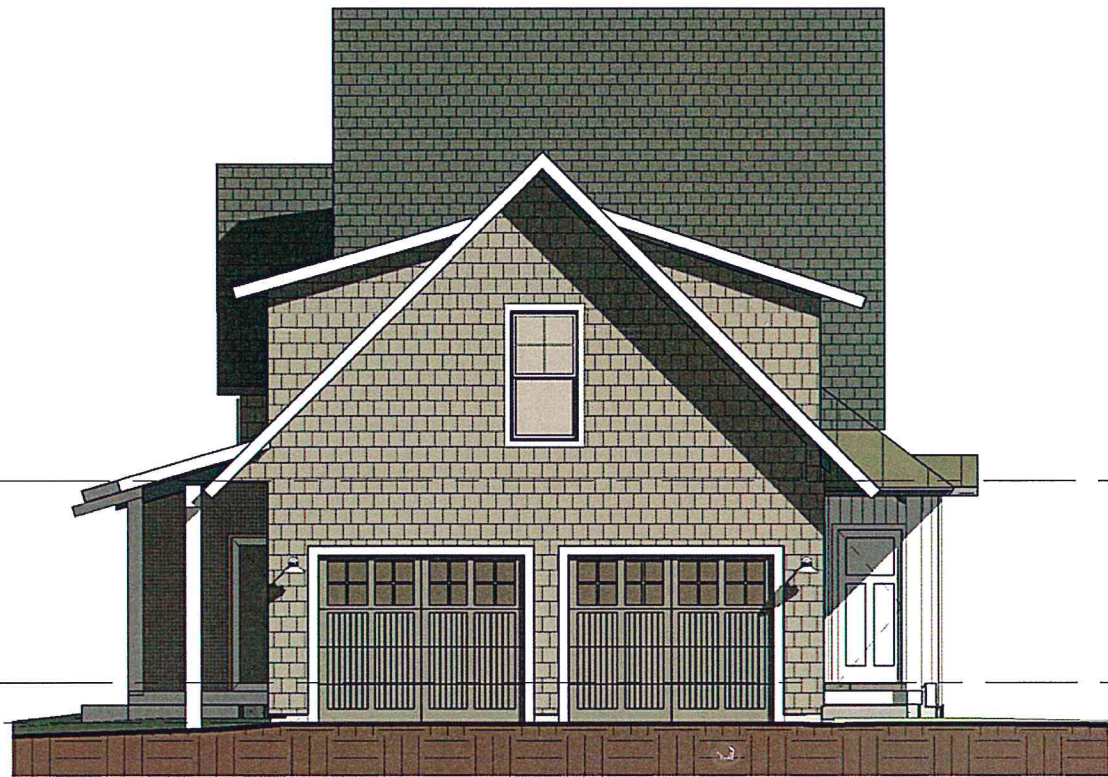
① South Elevation  
1/8" = 1'-0"



④ West Elevation  
1/8" = 1'-0"

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② North Elevation  
1/8" = 1'-0"



① East Elevation  
1/8" = 1'-0"

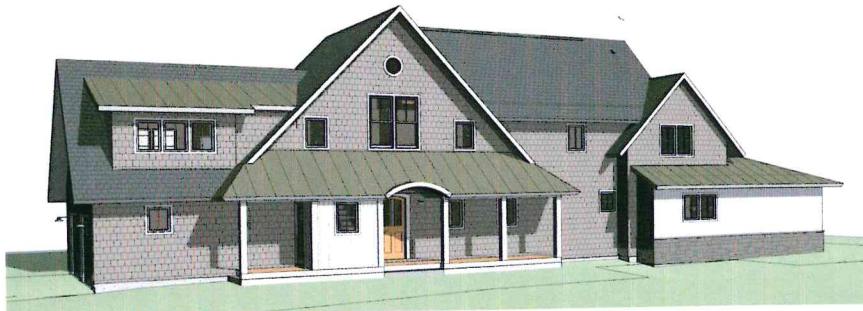
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Prior approval

RECEIVED  
MAR 27 2015

DEPARTMENT OF  
PLANNING & ZONING



② View from North West  
12" = 1'-0"



④ View from South West  
12" = 1'-0"



③ View from South East  
12" = 1'-0"



① View from North East  
12" = 1'-0"

DRAWING INDEX		
	DRAWINGS 1-5 KREBS AND LANSING	
1	BOUNDRY LINE ADJUSTMENT	
2	SITE AND UTILITY PLAN	
3	SANITARY FORCE MAIN PLAN	
4	UTILITY PROFILES	
5	DETAILS	
	DRAWING L1 CYNTHIA KNAUF	
L1	PLANTING PLAN	
B1.0	BASEMENT PLAN	
B1.1	FIRST FLOOR PLAN	
B1.2	SECOND FLOOR PLAN	
B1.3	THIRD FLOOR PLAN	
B2.1	EXTERIOR ELEVATIONS	
B4.1	Detail Wall Section	

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Move.rvt

2/19/2015 2:35:59 PM

PERMIT ISSUE: FEBRUARY 19, 2015



BRAD RABINOWITZ ARCHITECT  
200 MAIN STREET BURLINGTON, VERMONT 05401  
802 658 0430 T 802 863 6876 F  
www.bradrabinowitzarchitect.com

Design:  
**SENECAL Residence at Appletree Point**  
BURLINGTON, VERMONT

DRAWING TITLE:  
**3D Views & DRAWING  
INDEX - 465**

DATE REVISION

BT.

As indicated  
12/3/14

## Burlington Development Review Board

149 Church Street, City Hall

Burlington, VT 05401

[www.burlingtonvt.gov/pz/DRB](http://www.burlingtonvt.gov/pz/DRB)

Telephone: (802) 865-7188

Fax (802) 865-7195

Austin Hart

Brad Rabinowitz

Jonathan Stevens

Alexandra Zipparo

Israel Smith

AJ LaRosa

Geoff Hand

Wayne Senville, (Alternate)

Jim Drummond, (Alternate)



### BURLINGTON DEVELOPMENT REVIEW BOARD

Tuesday April 19, 2016, 5:00 PM

Contois Auditorium, City Hall, 149 Church Street, Burlington, VT

#### Minutes

**Board Members Present:** Austin Hart, Jonathan Stevens, Brad Rabinowitz, Israel Smith, A.J.LaRosa, , Wayne Senville

**Board Members Absent:** Geoff Hand, Jim Drummond, Alexandra Zipparo

**Staff Present:** Mary O'Neil, Anita Wade

#### I. Agenda

#### II. Communications

Two emails pertaining to 451 Ethan Allen Parkway.

Neighbor's response to 75 Grant St.

M.ONeil – appellants for 75 Grant Street and 124 Sunset Cliff Road request a deferral.

#### III. Minutes

#### IV. Consent Agenda

##### 1. 15-0339VR; 31 North Ave (RM-W, Ward 3) Cynthia W Smith

Time extension on a variance from a front yard setback. Property fronts Depot Street. (Project Manager, Scott Gustin)

A.Hart - Swears in applicant. Board members accept item as a consent. Staff has looked through application and provided recommendations for Board approval.

Applicant – did receive staff recommendations.

A.Hart – asks if anyone came to speak. None.

B.Rabinowitz – motion to approve and adopt staff findings and recommendations.

A.J.LaRosa – seconds the motion.

Board Vote: 5-0-0

Motion carried.

##### 2. 15-0922CA/CU; 451 APPLETREE POINT ROAD (RL-W, Ward 4N) Cheryl L Senecal

Amendment for demolition of existing structures, construct new single family home with accessory apartment and associated site improvements. Lot line adjustment included. (Project Manager, Scott Gustin)

##### 3. 15-0923CA/CU; 465 APPLETREE POINT ROAD (RL-W, Ward 4N) Cheryl L Senecal

Amendment to construct single family home with accessory apartment and associated site improvements. Includes lot line adjustment. (Project Manager, Scott Gustin)

A.Hart and B.Rabinowitz recused from item.

J.Stevens – chairs item. The project will be a public hearing instead of consent item.

Swears in applicant and interested parties for public hearing.

B.Rabinowitz – explains the negotiations and final agreement. 451 Appletree Pt Rd was reduced by 5 percent and 465 Appletree Pt Rd by 65 percent. Both were pushed back

*The programs and services of the City of Burlington are accessible to people with disabilities.*

*Individuals who require special arrangements to participate are encouraged to contact the Department of Planning & Zoning at least 72 hours in advance so that proper accommodations can be arranged. For information call 865-7188 (TTY users: 865-7142).*

Printed on 100% Recycled Paper

from the street 5 feet having 30 foot setbacks. Change in the application is from duplex to accessory apartment, which is why we are back before the DRB.

AJ.LaRosa – review of settlement agreement. Asks if the City participated.

K.Sturtevant – the city was present.

L.Larsen – representative of the Larsen Land Trust and appellants of this case.

This has been trying for neighbors and appellants to go through numerous processes and mediation. This project is grossly outsized for the area. Would have preferred to see a smaller area. Would ask for the DRB and Planning Commission to be certain that all conditions and permits are met. Want to be certain no amendments or changes happen moving forward.

J.Stevens – did look at the project site.

L.Larsen – feels it is incumbent upon the City and DRB members sitting on the DRB during their tenure to be careful when offering their services.

J.Stevens – asks if there are questions from applicant or the Board.

W.Serville - did not get packet in advance and did not have opportunity to go to site. Asks if this could be continued.

AJ.LaRosa – this would be inappropriate considering there is a signed mediation agreement.

L.Larsen – we went through the process and agreed we had to stop the appeal and go to mediation. We have been fighting this for 10yrs on a subplot division for something that should not have been done.

J.Stevens - closed public hearing.

## **V. Public Hearing**

### **1. 14-1181CA/CU; 8 College Street (RL-W, Ward 4) City of Burlington**

Amendment for bike Path rehabilitation, including phase 1 from Perkins Pier to North Beach. Also, improvements to Waterfront Park, including replacement lighting, potable water improvements, boardwalk renovation, and landscaping improvements.

(Project Manager, Scott Gustin)

A.Hart - swears in applicant.

J.Bridges – describes the amended permit for next phase of bike path reconstruction through Perkins pier. This ties into waterfront park and waterfront north through urban reserve to just south of south beach into the waterfront access. Changes to bike path, reorienting dog park, steps down to access to water, change to five percent grade to path, plantings and creating new minipark. Will be enhancing stormwater and shoreline protection on the site. Trail to north beach will have a wider path.

A.Hart – questions regarding Penny lane.

J.Bridges – spoke to waterfront park and where bike crosses Penny Lane where it is almost completed. There are no changes on Penny Lane.

B.Rabinowitz – questions the chance of intersection of bike path and pedestrian path towards skate park.

J.Bridge – bike path is multiple use facility and always the dominant feature on path.

AJ.LaRosa - does project cover area of Texaco beach where erosion creates an unstable slope?

J.Bridges – this is the former Burlington College site with 12 acres just purchased from Eric Farrell on easterly path to Lakeview. The downslope was addressed in 2012. Trying to fix on the north side for this spring though not part of this project, where there is new parkland on easterly side. The downhill side will not address the slope failure. Need to look at north side with engineers.

A.Hart – will you be improving connections near Burlington College?

J.Bridges – finish buying it first; this is a priority for accessibility. Path will continue through meadow and woods will be formalized with 7% grade as next phase.

A.Hart – no members of public to speak. Closed public hearing.

**2. 16-0845AP; 75 Grant Street (RH, Ward 2C) Priscilla R Toomey**

Notice of Appeal of zoning violation #301663 relative to parking.  
(Project Manager, Jeanne Francis)

A.Hart – this is a request for a date certain. No one is present to speak for this item. May defer or continue.

M.O'Neil – applicant has requested to be placed on the agenda for May 3rd.

A.Hart - motion to defer hearing to date certain on May 3rd.

I.Smith – seconds the motion.

Board Vote: 5-0-0

**3. 16-0870AP; 124 Sunset Cliff Road (RL, Ward 4N) Joseph Kroger**

Appeal of Notice of Zoning Violation #298627 relative to a second unit in a single family home. (Project Manager, Jeanne Francis)

A.Hart – this is an appeal of a notice of violation.

M.Stern – attorney representing Joseph Kroger. This was an after the fact zoning permit for a conditional use. Trying to resolve the condition with DPW and would like to continue to work this out.

A.Hart – there are both zoning and building issues. The NOV was due to a failure to obtain a zoning permit. The appeal period has expired, but you have an approved zoning permit. Not sure what condition needs correction.

M.Stern – DPW is looking at this as a duplex that may require tearing down. Concerned about trying to meet this condition and then not sure if the zoning permit will be valid.

A.Hart - confusion with zoning issues and building issues. There is no current zoning violation. May need to work out with building department for building issues but not sure why this involves DRB.

M.Stern – the permit is not valid if conditions are still outstanding.

A.Hart – asks about staff attorney's thoughts on this. Can we accommodate the owner?

K.Sturtevant – there was a notice of violation, application made and approval was made for an extra unit. No appeal taken for an action that already occurred which makes the zoning NOV mute.

A.Hart - do not want to leave applicant without a remedy. Would you come back to us?

M.Stern - the nature of the appeal was that it was a grandfathered use. Understanding it was grandfathered and better if we continue the appeal and maintain opportunity to come back to DRB if we need to in case we continue to have problems.

A.Hart - part of the NOV was that it was there beyond the statute of limitations and want to preserve duplex without appeal. Question on the issue of grandfathering.

K.Sturtevant - they have approval for extra unit now.

M.Stern - we do not know if DPW will require more.

A.Hart - not sure why we would shut door on preserving your rights.

AJ. LaRosa - how far along are you with DPW?

M.Stern - we are requesting 30 days to work this out.

A.Hart – Board would like to accommodate and give additional 30 days. The issuance of a new zoning permit in the interim will not cut off grandfathering.

K.Sturtevant - if continued, this is still open.

AJ.LaRosa – best to get resolved with all parties.

J.Stevens - issues and facts involve another department and does not affect the DRB.

A.Hart - grandfathering does affect the applicant; continue hearing on appeal for 30 days

Motion to continue public hearing on NOV to May 17th. Not making any decision on the merits of grandfathering for the owner or the City. We will take this up on May 17th.

B.Rabinowitz – seconds the motion.

Board Vote: 5-0-0.

**VI. Other Business**

**VII. Adjournment**

A.Hart - meeting is adjourned at 5:48pm.

Deliberative session was conducted after this meeting.

_____  
Austin Hart, Chair of Development Review Board

_____  
Date

_____  
A.Wade, Planning & Zoning Clerk

_____  
Date

Plans may be viewed in the Planning and Zoning Office, (City Hall, 149 Church Street, Burlington), between the hours of 8:00 a.m. and 4:30 p.m.

Participation in the DRB proceeding is a prerequisite to the right to take any subsequent appeal. Please note that ANYTHING submitted to the Planning and Zoning office is considered public and cannot be kept confidential.

This may not be the final order in which items will be heard. Please view final Agenda, at [www.burlingtonvt.gov/pz/drb/agendas](http://www.burlingtonvt.gov/pz/drb/agendas) or the office notice board, one week before the hearing for the order in which items will be heard.



## Burlington Development Review Board

149 Church Street, City Hall

Burlington, VT 05401

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Phone: (802) 865-7188

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Austin Hart, Chair  
Brad Rabinowitz  
Jonathan Stevens  
Israel Smith  
A.J. LaRosa  
Alexandra Zipparo  
Geoff Hand  
Jim Drummond (Alt)  
Wayne Senville (Alt)



### BURLINGTON DEVELOPMENT REVIEW BOARD

**Tuesday April 19, 2016  
PUBLIC HEARING NOTICE**

The Burlington Development Review Board will hold a meeting on **Tuesday April 19, 2016 at 5:00 p.m. in Contois Auditorium, City Hall.**

- 1. 15-0339VR; 31 North Ave (RM-W, Ward 3) Cynthia W Smith**  
Time extension on a variance from a front yard setback. Property fronts Depot Street.
- 2. 15-0922CA/CU ; 451 APPLETREE POINT ROAD (RL-W, Ward 4N) Cheryl L Senecal**  
Amendment for demolition of existing structures, construct new single family home with accessory apartment and associated site improvements. Lot line adjustment included.
- 3. 15-0923CA/CU; 465 APPLETREE POINT ROAD (RL-W, Ward 4N) Cheryl L Senecal**  
Amendment to construct single family home with accessory apartment and associated site improvements. Includes lot line adjustment.
- 4. 14-1181CA/CU; 8 College Street (RL-W, Ward 4) City of Burlington**  
Amendment for bike Path rehabilitation, including phase 1 from Perkins Pier to North Beach. Also, improvements to Waterfront Park, including replacement lighting, potable water improvements, boardwalk renovation, and landscaping improvements.

Plans may be viewed in the Planning and Zoning Office, (City Hall, 149 Church Street, Burlington), between the hours of 8:00 a.m. and 4:30 p.m.

Participation in the DRB proceeding is a prerequisite to the right to take any subsequent appeal. Please note that ANYTHING submitted to the Planning and Zoning office is considered public and cannot be kept confidential.

This may not be the final order in which items will be heard. Please view final Agenda, at [www.burlingtonvt.gov/pz/drba/agendas](http://www.burlingtonvt.gov/pz/drba/agendas) or the office notice board, one week before the hearing for the order in which items will be heard.

*The programs and services of the City of Burlington are accessible to people with disabilities. Individuals who require special arrangements to participate are encouraged to contact the Department of Planning & Zoning at least 72 hours in advance so that proper accommodations can be arranged. For information call 865-7188 (TTY users: 865-7142).*