# DEVELOPMENT PERMIT APPLICATION: MUSEUM OF ANTHROPOLOGY at the UNIVERSITY OF BRITISH COLUMBIA

VEGETATION, SITE AND SITE ELEMENT PROTECTION, PRESERVATION, RESTORATION AND REHABILITATION GREAT HALL SEISMIC UPGRADE: TEMPORARY ACCESS ROAD, SET-UP AND STAGING AREAS



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### LANDSCAPE ARCHITECTURE SHEETS

### PROJECT DATA

L0.0 COVER SHEET, SHEET INDEX L1.0 TOPOGRAPHIC SITE SURVEY METRIC L1.1 LOCATION | OVERVIEW CONSERVATION | MITIGATION

### GREAT HALL SEISMIC UPGRADE

SHEET L1.2 Site Survey Protection | Restoration Vegetation Site and Site Elements | Site South West |
SHEET L2.0 Protection | Restoration Vegetation Site and Site Elements | Site West |
SHEET L4.0 Protection | Restoration Vegetation Site and Site Elements | Site West |
SHEET L5.0 Protection | Restoration Vegetation Site and Site Elements | Site North West |
SHEET L5.1 Protection | Restoration Vegetation Site and Site Elements | Site North West |
SHEET L6.0 SHEET L6.0 SHEET L7.0 Staging Areas Removal | Restoration Site South West | Restoration Notes |
Temporary Access Road, Set-Up & Staging Areas Removal | Restoration Site North West | Restoration Notes |

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# issued 1. October 10 2018 for review

- 2. DP Submission November 1 2018
- 3. DP Seismic Upgrade August 29 2019
- DP Seismic Upgrade Temporary Access
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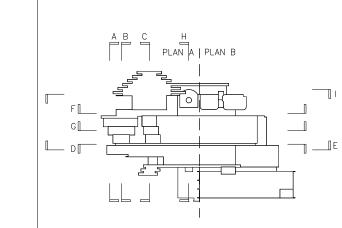
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key plan



project title

project title

M U S E U M O F

A N T H R O P O L O G Y

VEGETATION | SITE : PROTECTION + RESTORATION

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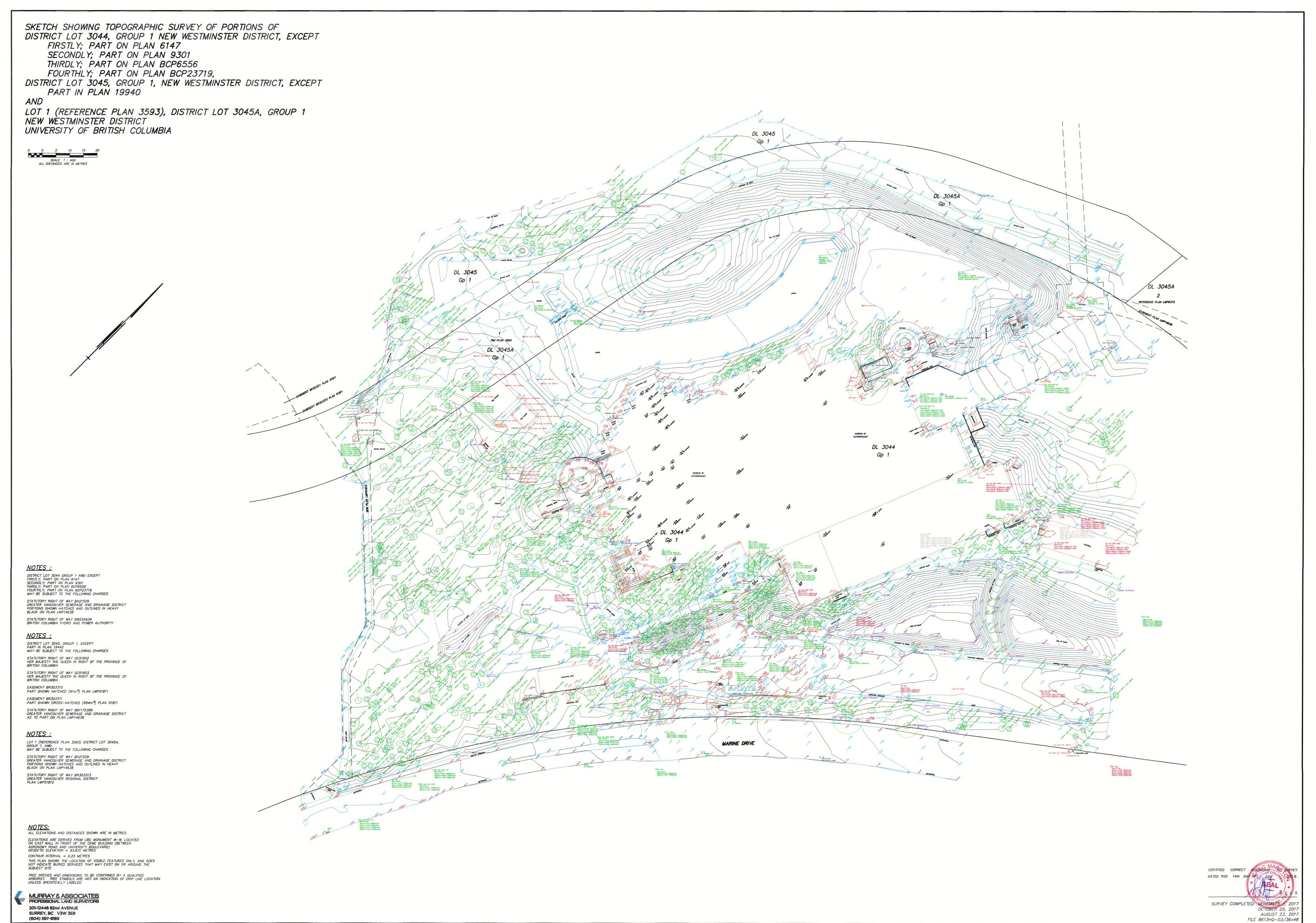
GREAT HALL SEISMIC UPGRADE

drawing title

COVER SHEET SHEET LIST

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nick milkovich architects inc Suite 303, 375 West 5th Avenue **tel** 604.737.6061 Vancouver. BC. Canada V5Y 1J6 fax 604.737.6091 e-mail nma@milkovicharchitects.com web www.milkovicharchitects.com Atelier Anonymous Vancouver | Winnipeg 3196 Mathers Avenue West Vancouver BC V7V 2K5 www.atelier-anon.com M +1 778 837 4733 1. October 10 2018 for review 2. DP Submission November 1 2018 3. DP Seismic Upgrade August 29 2019 4. DP Seismic Upgrade Temporary Access October 5 2019 © Copyright reserved. This plan and design is and at all times remains the exclusive All measurements must be checked on the drawings by the contractor.

This drawing is not to be used for construction purposes unless countersigned. project title MUSEUM OF ANTHROPOLOGY GREAT HALL SEISMIC UPGRADE | VEGETATION | SITE : PROTECTION + RESTORATION | 6393 NW MARINE DRIVE VANCOUVER, B.C. TOPOGRAPHIC SITE SURVEY METRIC

as shown

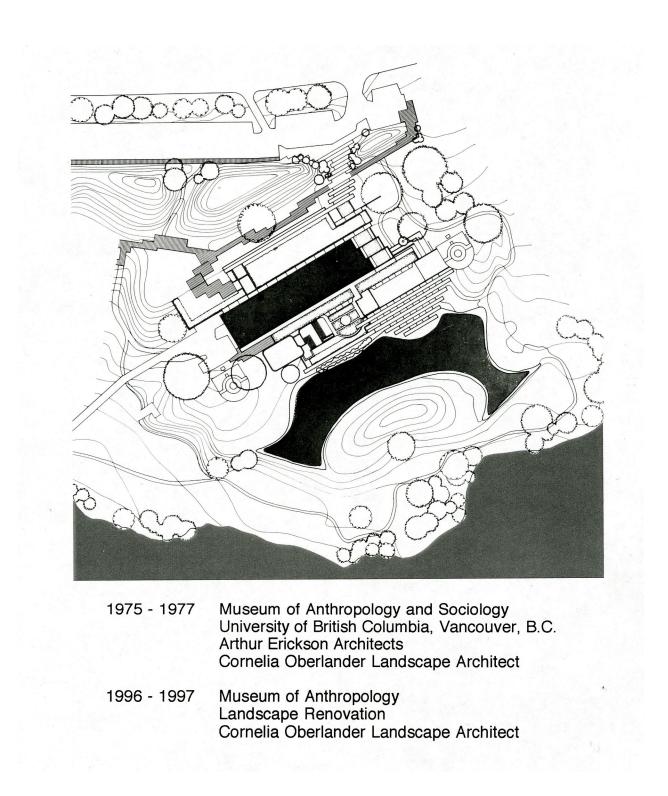
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# Landscape Conservation and Mitigation Understanding an Iconic Landscape Design

# Protection of an Iconic Landscape Design

The role of the landscape architecture team is to assist in the protection, preservation, restoration and rehabilitation of site vegetation, site topography, site features, and site elements impacted by envelope and seismic upgrade construction activities.

Working collaboratively with the consultant team and the Musqueam Nation, strategies will continue to evolve for the retention and enhancement of an iconic landscape that responds to the architecture, as well as spirit of place, history, diverse cultures, ecology and landscape aesthetics and function.



# Documentation of Landscape and Place: A Total Environmental Design

Site walks and consultations with landscape architect Cornelia Hahn Oberlander, Museum of Anthropology representatives, architects Nick Milkovich and Anne Gingras, and representatives of the Musqueam Nation have taken place, with emphasis on the cultural significance and history of the land.

Detailed photographic and topographic surveys have been completed. A comparative inventory of the planting history 1973 - 2018 and a planting matrix of native and culturally significant species on Musqueam traditional territory have been completed.

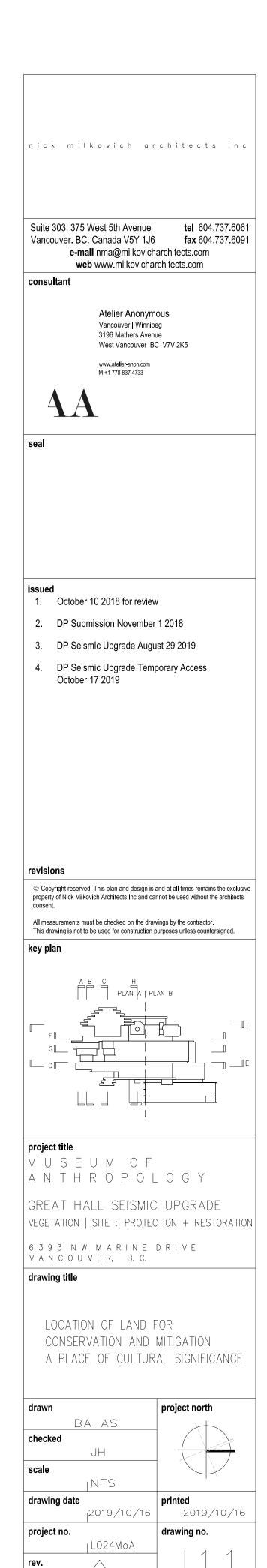


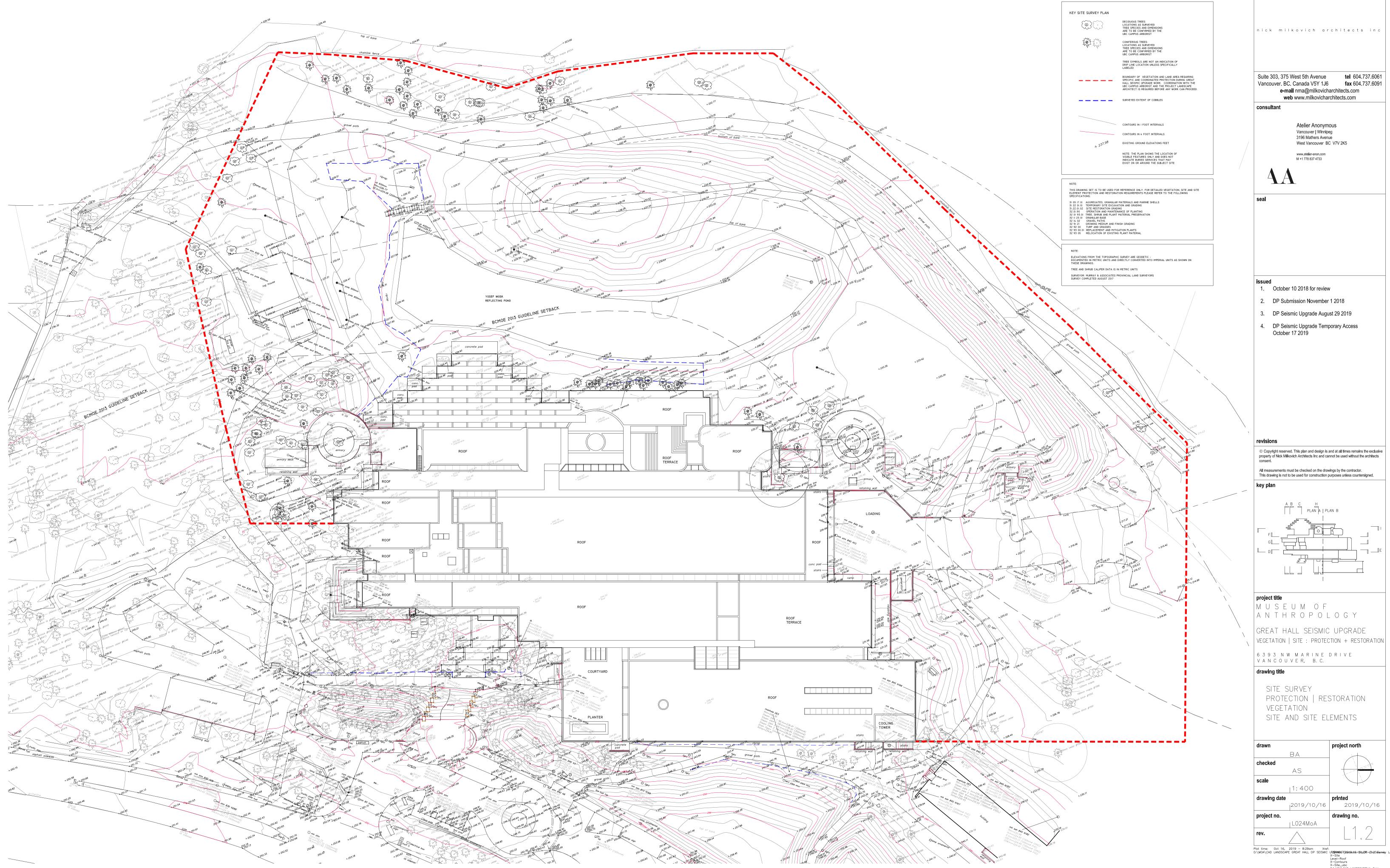
**UBC Campus context plan.**Not to scale.

# Landscape Conversation and Restoration

The guiding rationale for landscape conservation is to retain the significance of the existing designed landscape, while allowing for adaptation and revitalization — a contribution to new land uses and standards for accessibility, sustainability, and rehabilitation of the historic land.

Landscape conservation and restoration requires land stewardship in partnership with the Musqueam Nation – upon whose ancestral homeland the Museum of Anthropology is located – acknowledging their expertise.





# EXISTING CONDITIONS OBSERVED September 26 2018 Site Area South of Great Hall, Museum of Anthropology

EXISTING TREES, SHRUBS, OTHER PLANT MATERIAL, SITE FEATURES AND SITE ELEMENTS WITHIN THE SITE SURVEY AREA, SHEET L1.0, ARE DESIGNATED FOR PROTECTION, PRESERVATION, RESTORATION AND REHABILITATION.

Photos are representative of existing conditions within the boundary of land area requiring specific and coordinated protection, preservation, restoration and rehabilitation.



View G1 Sheet L2 (G1:L2)
existing site conditions | vegetation | path | aggregate
concrete pads | cobbles | armory/gun emplacement

Views G2 Sheet L2 (G2:L2) existing site conditions | views to grassed slope | cobbles | vegetation | grading tree roots embedded into slope | gravel path with soft, non-linear edge condition



View G3 Sheet L8 (G3:L2)

existing edge conditions | aggregate concrete pads with cobbles

views G3 Sheet L2 (G3:L2)

existing site conditions | aggregate concrete pads | cobbles | vegetation



View G4 Sheet L2 (G4:L2) existing aggregate concrete pad (typical) interface with building and landscape|cobbles

# GENERAL SITE, SITE ELEMENT, VEGETATION PROTECTION | PRESERVATION | RESTORATION | REHABILITATION NOTES

# 1. VEGETATION PROTECTION | PRESERVATION | RESTORATION | REHABILITATION

- 1. EXISTING TREES, SHRUBS AND OTHER PLANT MATERIAL ON THE MUSEUM OF ANTHROPOLOGY SITE, UBC ARE DESIGNATED FOR PROTECTION | PRESERVATION | RESTORATION | REHABILITATION.
- 2. The Contractor shall take sole responsibility for all coordination with the UBC Campus Arborist, Professional Arborist, Project Landscape Architect and Consultant team to establish area-specific, case by case, vegetation protection, preservation, restoration and rehabilitation strategies prior to the commencement of Work.

# 2.0 SITE AND SITE ELEMENT PROTECTION | PRESERVATION | RESTORATION | REHABILITATION

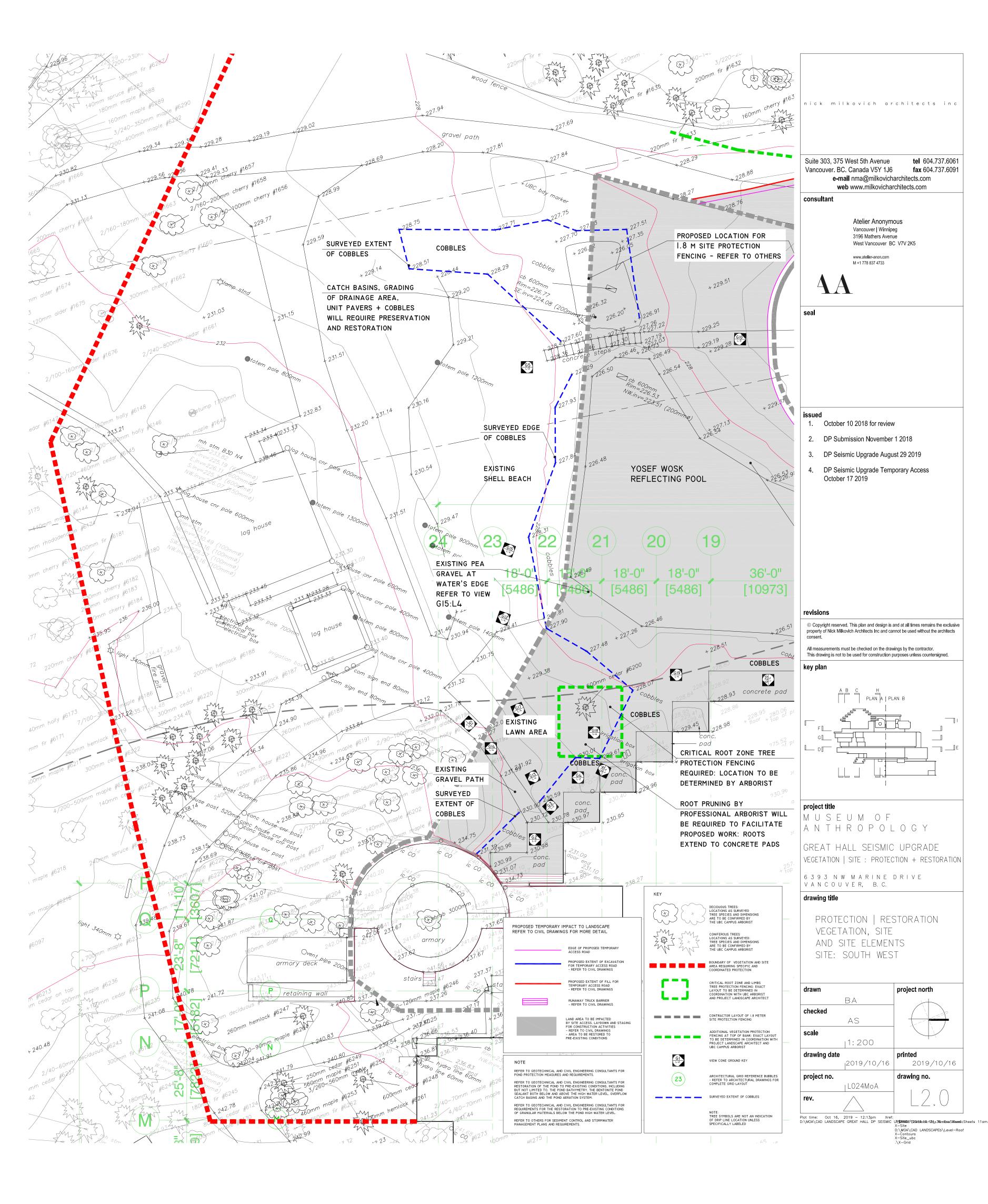
- 1. ALL EXISTING SITE FEATURES, SITE ELEMENTS AND SITE MATERIALS ON THE MUSEUM OF ANTHROPOLOGY SITE, UBC ARE DESIGNATED FOR PROTECTION | PRESERVATION | RESTORATION | REHABILITATION.
- 2. The Contractor shall take sole responsibility for all coordination with the Consultant team and representatives of the Museum of Anthropology to establish area-specific site, and case by case, protection, preservation, restoration and rehabilitation strategies and procedures prior to the commencement of the Work. Preservation planning for culturally significant site elements and public art is required prior to the commencement of Work.

# 3.0 REQUIREMENTS OVERVIEW

- 1. Vegetation protection shall require protection in place, removal, storage and replanting, removal and transplanting on site, vegetation replacement and/or vegetation mitigation|rehabilitation.
- 2. Site, site utility and site element protection shall require protection|preservation in place, removal, storage and re-installation and restoration/rehabilitation to pre-existing conditions.
- 3. Alterations to the existing site topography, and impacts to site soils and site granular/shell materials must be minimized. In areas where the existing topography, soils and/or surface granular materials are impacted by the Work, restoration and rehabilitation to existing site conditions is required.
- 4. The Contractor shall contact the UBC Campus Arborist and the Project Landscape Architect immediately regarding any changes impacting existing vegetation.
- 5. Should plant protection methods require removal, storage and replanting, removal and transplanting on site, vegetation replacement or vegetation mitigation|rehabilitation, the plant material will be accepted by the Project Landscape Architect and the UBC Campus Arborist upon Substantial Performance of the Work and again at the end of the warranty period of one (1) year, provided that trees, shrubs and plant material exhibit healthy growth and are free from annual/perennial/invasive noxious weeds, disease, insects and fungal organisms.
- 6. Refer to the following Specification Sections for detailed requirements for vegetation protection, preservation, restoration and rehabilitation procedures | site, site element and site materials protection, preservation, restoration and rehabilitation procedures:

31 05 17.01	Aggregates, Granular Materials and Marine Shells	32 01 93.01	Tree, Shrub and Plant Material Preservation	32 92 00	Turf and Grasses
31 22 01.01	Temporary Site Excavation and Grading	32 11 23.01	Granular Base	32 93 00.01	Replacement and Mitigation Plants
31 22 01.02	Site Restoration Grading	32 14 02	Gravel Paths	32 93 05	Relocation of Existing Plant Material
32 01 90	Operation and Maintenance of Planting	32 91 21	Growing Medium and Finish Grading		

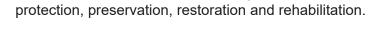
THE LANDSCAPE ARCHITECTURE SITE, SITE ELEMENT AND VEGETATION PROTECTION, PRESERVATION, RESTORATION AND REHABILITATION REQUIREMENTS **DO NOT** INCLUDE REQUIREMENTS FOR PROTECTION, PRESERVATION, RESTORATION AND REHABILITATION OF THE YOSEF WOSK REFLECTING POOL. REFER TO GEOTECHNICAL AND CIVIL ENGINEERING DRAWINGS AND SPECIFICATIONS FOR POND PROTECTION MEASURES AND REQUIREMENTS FOR THE REPARATION OF IMPACTS FROM THE WORK TO POND BATHYMETRY, TO THE POND BENTONITE SEALANT, TO OVERFLOW CATCHBASINS AND TO THE POND AERATION SYSTEM.



# EXISTING CONDITIONS OBSERVED September 26 2018 Site Area West of Great Hall, Museum of Anthropology

EXISTING TREES, SHRUBS, OTHER PLANT MATERIAL, SITE FEATURES AND SITE ELEMENTS WITHIN THE SITE SURVEY AREA, SHEET L1.0, ARE DESIGNATED FOR PROTECTION, PRESERVATION, RESTORATION AND REHABILITATION

Photos are representative of existing conditions within the boundary of land area requiring specific and coordinated protection, preservation, restoration and rehabilitation





View G6 Sheet L3 (G6:L3)
existing site conditions | proposed location temporary
construction vehicle access route | vegetation | path



View G7 Sheet L3 (G7:L3)
existing site conditions | proposed location temporary
construction vehicle access route | vegetation | path





Views G8 Sheet L3 (G8:L3) existing site conditions | proposed location for temporary construction vehicle access route | vegetation road | path | site elements



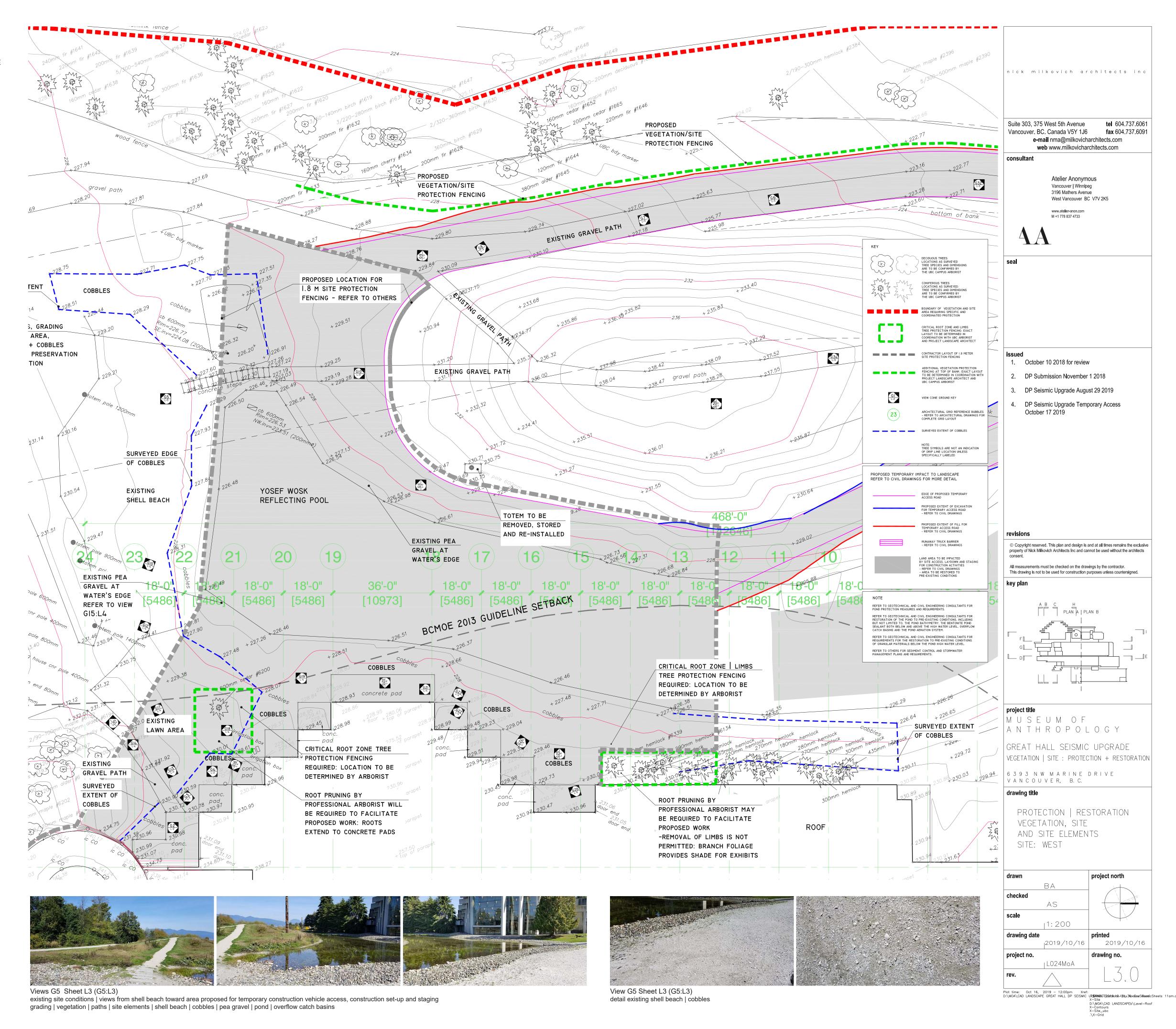
Views G9 Sheet L3 (G9:L3) existing site conditions | proposed location for temporary construction vehicle access, construction set up and staging | vegetation | paths | totem



Views G10 Sheet L3 (G10:L3) existing site conditions | vegetation | overflow catch basins | cobbles | shell beach | totems | site elements | concrete unit pavers path | paths



Views G11 Sheet L3 (G11:L3) existing site conditions | pea gravel at pond water's edge | vegetation | grading



### **EXISTING CONDITIONS OBSERVED September 26 2018** Site Area South and West of Great Hall, Museum of Anthropology

EXISTING TREES, SHRUBS, OTHER PLANT MATERIAL, SITE FEATURES AND SITE ELEMENTS WITHIN THE SITE SURVEY AREA, SHEET L1.0, ARE DESIGNATED FOR PROTECTION, PRESERVATION, RESTORATION AND REHABILITATION.

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Views G12 Sheet L4 (G12:L4) existing site conditions | cedar (south-west corner of building) requiring critical root zone protection | vegetation | cobbles | site elements | grading



View G13 Sheet L4 (G13:L4) existing site conditions | roots of cedar visible in foreground of photo - meters outside of tree dripline | critical root zone must be protected during construction activities



Views G14 Sheet L4 (G14:L4) existing site conditions | vegetation | aggregate concrete pads | cobbles | path | site elements

existing site conditions | cedar roots | cobbles | site utility | aggregate concrete pads



View G15 Sheet L4 (G15:L4) existing conditions between pond and Great Hall | grading between pond and aggregate concrete pads



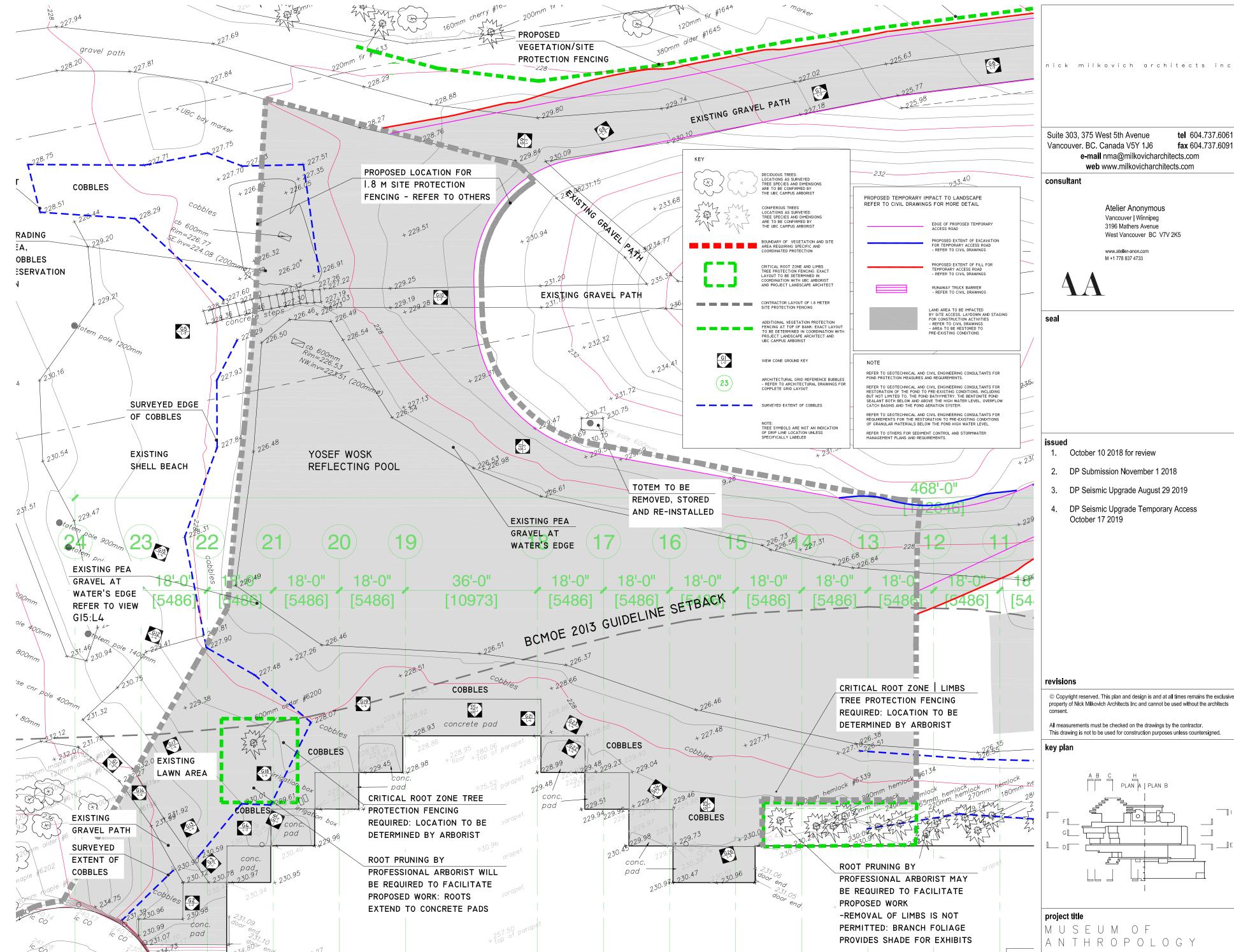
Views G17 Sheet L4 (G17:L4) existing site conditions | view to area proposed for temporary construction access route, construction set-up and staging | pond | vegetation



Views G18 Sheet L4 (G18:L4) existing site conditions | vegetation | cedar roots | cobbles aggregate concrete pads



Views G19 Sheet L4 (G19:L4) existing site conditions at large aggregate concrete pad west side of Great Hall | grading | cobbles | concrete interface with glazing





Views G20 Sheet L4 (G20:L4) existing site conditions | pond edge conditions | grading | vegetation | cobbles | pea gravel

October 10 2018 for review 2. DP Submission November 1 2018 DP Seismic Upgrade August 29 2019 DP Seismic Upgrade Temporary Access October 17 2019 © Copyright reserved. This plan and design is and at all times remains the exclusive All measurements must be checked on the drawings by the contractor. This drawing is not to be used for construction purposes unless countersigned. MUSEUM OF ANTHROPOLOGY GREAT HALL SEISMIC UPGRADE | VEGETATION | SITE : PROTECTION + RESTORATION | 6393 NW MARINE DRIVE VANCOUVER, B.C. drawing title PROTECTION | RESTORATION VEGETATION SITE AND SITE ELEMENTS SITE: WEST project north checked <sub>l</sub>1:200 drawing date 2019/10/16 project no. LO24MoA Plot time: Oct 16, 2019 - 11:57am Xref:
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### **EXISTING CONDITIONS OBSERVED September 26 2018** Site Area North and West of Great Hall, Museum of Anthropology

EXISTING TREES, SHRUBS, OTHER PLANT MATERIAL, SITE FEATURES AND SITE ELEMENTS WITHIN THE SITE SURVEY AREA, SHEET L1.0, ARE DESIGNATED FOR PROTECTION, PRESERVATION, RESTORATION AND REHABILITATION.

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Views G21 Sheet L4 (G21:L4) existing site conditions | vegetation | cobbles | aggregate concrete pads



View G22 Sheet L4 (G22:L4) existing site conditions | hemlocks | cobbles | aggregate



Views G23 Sheet L4 (G23:L4) existing site conditions | grading | cobbles | pea gravel at pond edge | aggregate concrete pads | vegetation



existing site conditions | grading | aggregate concrete pads | cobbles

Views G24 Sheet L4 (G24:L4)

View G25 Sheet L5 (G25:L5) existing site conditions | hemlock | aggregate concrete | cobbles



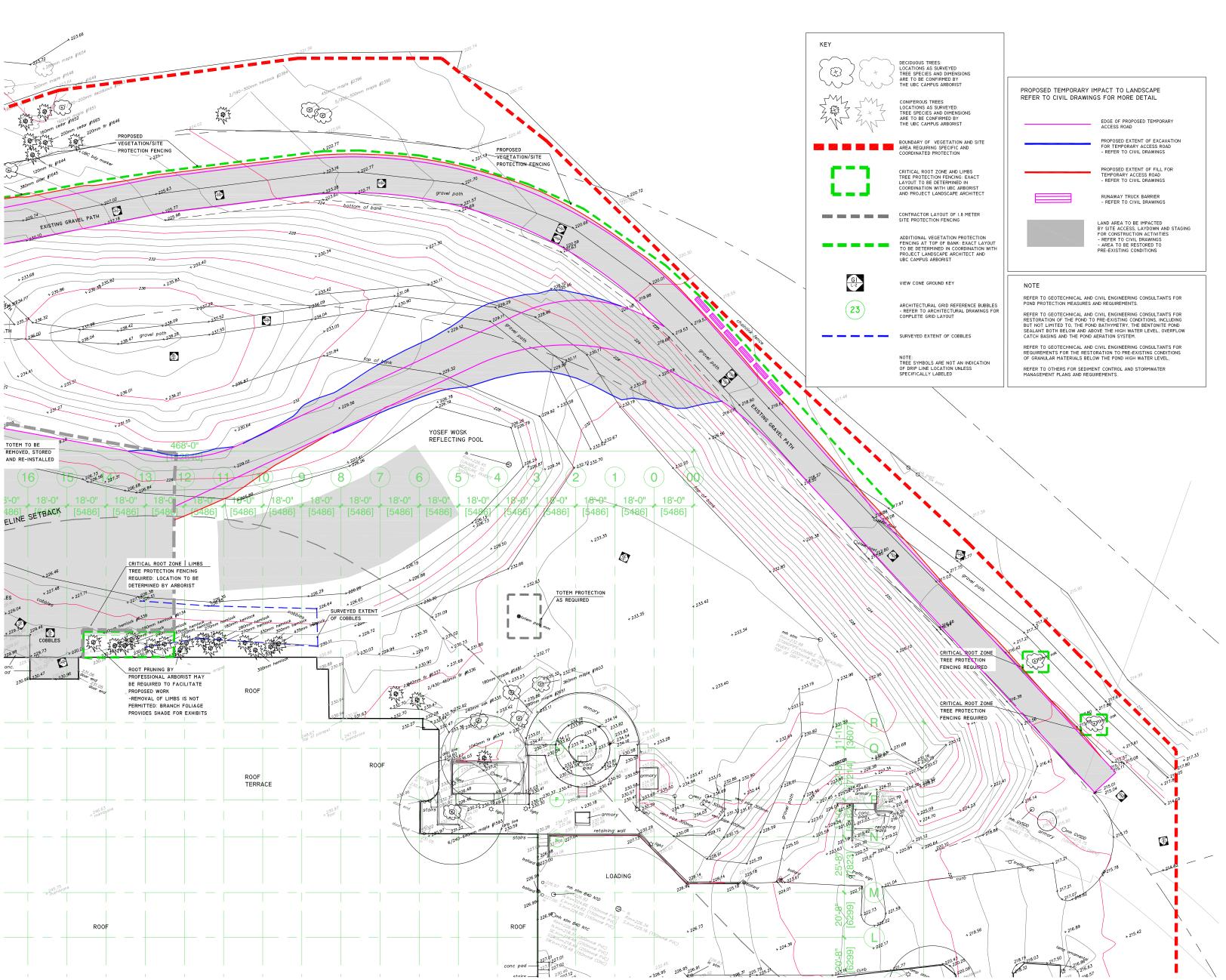
View G26 Sheet L5 (G26:L5) existing site conditions | hemlock | cobbles | aggregate concrete



Views G26 Sheet L5 (G26:L5) existing site conditions | hemlock | cobbles | aggregate concrete



existing site conditions | aggregate concrete | cobbles | grading | pea gravel at pond water's edge | vegetation





View G27 Sheet L5 (G27:L5) existing site conditions | proposed location of temporary vehicle access route | vegetation | grading | oaks require critical root zone protection fencing



View G28 Sheet L5 (G28:L5) existing site conditions | proposed location of temporary vehicle access route | vegetation | grading | path | oaks require critical root zone protection fencing



View G29 Sheet L5 (G29:L5) existing site conditions | proposed location of temporary vehicle access route | vegetation | grading | path



View G30S, G30N Sheet L5 (G30S, G30N) existing site conditions | proposed location for temporary construction vehicle access route | vegetation | grading | path



View G31S, G31N Sheet L5 (G31S, G31N) existing site conditions | proposed location of temporary construction vehicle access route | vegetation | grading | path



View G32 Sheet L5 (G32:L5) proposed location for temporary vehicle access route | vegetation | grading | path



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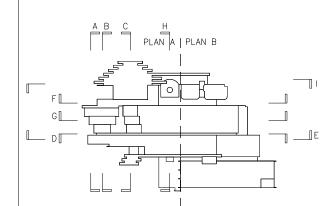
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MUSEUM OF ANTHROPOLOGY

GREAT HALL SEISMIC UPGRADE | VEGETATION | SITE : PROTECTION + RESTORATION |

6393 NW MARINE DRIVE VANCOUVER, B.C.

# drawing title

PROTECTION | RESTORATION VEGETATION SITE AND SITE ELEMENTS SITE: NORTH WEST

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# **EXISTING SITE CONDITIONS OBSERVED AUGUST 26 2018** Site Area North and West of Great Hall, Museum of Anthropology

EXISTING TREES, SHRUBS, OTHER PLANT MATERIAL, SITE FEATURES AND SITE ELEMENTS WITHIN THE SITE SURVEY AREA, SHEET L1.0, ARE DESIGNATED FOR PROTECTION, PRESERVATION, RESTORATION AND REHABILITATION.



Views G33 Sheet L5 (G33:L5)

existing site conditions | mound grading | vegetation | path | views toward proposed location for temporary vehicle access route



Views G34 Sheet L5 (G34:L5) existing site conditions | mound grading | vegetation | path | view toward proposed location for temporary construction vehicle access route

# **ADDITIONAL SITE PHOTOS MARCH 3 2018** Site Area North and West of Great Hall, Museum of Anthropology

March 3 2018 Photos: Pond has been emptied for removal of invasive aquatic species, maintenance and restoration of pond edge definition where required.







Please refer to Sheet L3 for viewcone location Views G5 Sheet L3 (G5:L3)



View West from Roof existing site conditions as seen from roof | grading | site vegetation | site elements | armory / gun emplacement











existing site conditions | armory / gun emplacement | totem | vegetation | hemlock | cobbles | grading | views toward area proposed for construction set-up and staging and temporary construction vehicle access route on mound, west edge of



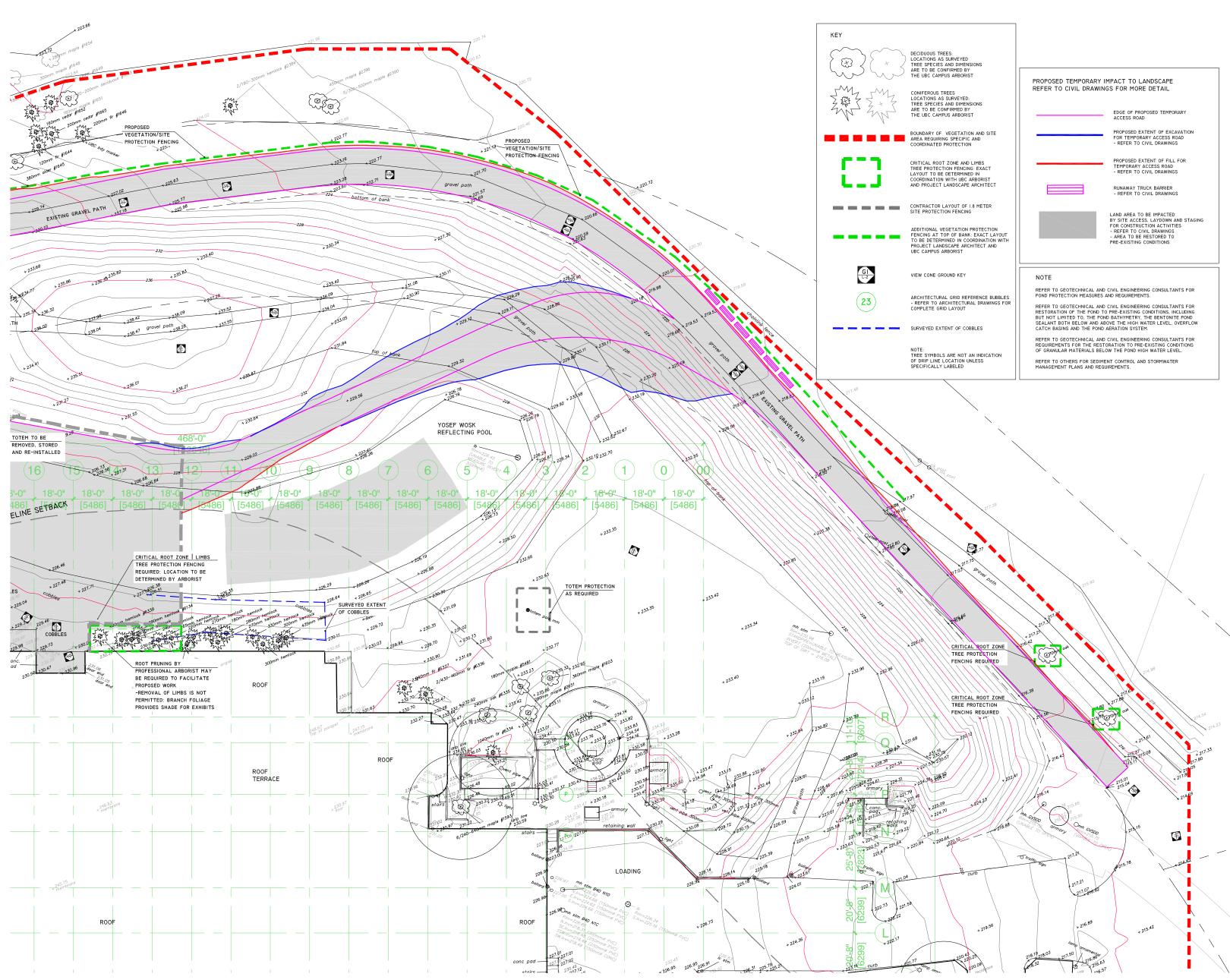








Views G36 Sheet L5 (G36:L5) existing site conditions | grading | totem | vegetation | hemlocks | cobbles | peagravel | views toward area proposed for construction set-up, staging and temporary construction vehicle access





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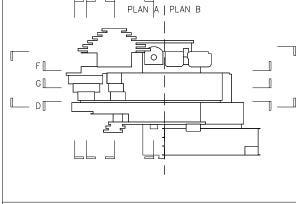
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MUSEUM OF ANTHROPOLOGY

GREAT HALL SEISMIC UPGRADE VEGETATION | SITE : PROTECTION + RESTORATION

6393 NW MARINE DRIVE VANCOUVER, B.C.

# drawing title

PROTECTION | RESTORATION VEGETATION SITE AND SITE ELEMENTS SITE: NORTH WEST

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# GENERAL NOTES SITE, SITE ELEMENT RESTORATION TO PRE-EXISTING CONDITIONS AND VEGETATION RESTORATION AND REHABILITATION.

REFER TO SHEET L2.0 FOR GENERAL SITE, SITE ELEMENT, VEGETATION PROTECTION | PRESERVATION | RESTORATION | REHABILITATION NOTES

- 1. ALL AREAS OF THE MUSEUM OF ANTHROPOLOGY SITE, UBC ARE DESIGNATED FOR PROTECTION, PRESERVATION, RESTORATION AND REHABILITATION.
- 2. All temporary materials placed on site are to be removed and site topography and site features impacted by the Work are to be restored and rehabilitated to pre-existing conditions.
- 3. Site elements impacted by the work are to be restored and rehabilitated to pre-existing conditions.
- 4. Site vegetation impacted by the work is to be restored | rehabilitated. Vegetation replacement, mitigation, restoration and rehabilitation strategies will be developed in coordination with the Musqueam community and the UBC campus arborist with vegetation mitigation|restoration|rehabilitation drawings to be based on these strategies.
- 5. Totems and other culturally significant site elements are to be securely protected from damage. The totem located west of the Yosef Wosk Reflecting Pond is to be removed, stored safely during the Work and re-installed following the Work.
- 6. The Contractor shall take sole responsibility for all coordination with the Project Landscape Architect, Project Architect, Museum of Anthropology Staff and the University of British Columbia Contract Administrator to establish site topography, site features and site element restoration|rehabilitation strategies prior to the commencement of
- 7. In areas where the existing topography, soils and surface granular materials (cobbles, pea gravel, gravel paths, shell beach, boulders and others) are impacted by the Work, restoration and rehabilitation to pre-existing conditions is required.
- 8. Refer to architectural and structural drawings for restoration|rehabilitation of 'cobble beach' (cobbles and pea gravel) directly adjacent to new exterior aggregate concrete slabs. Grading may vary slightly from pre-existing conditions.
- 9. Site utility and site elements shall require protection in place, removal, storage and re-installation and restoration|rehabilitation to pre-existing conditions.
- The Contractor is to restore|rehabilitate the site to the topographic and site conditions as documented by the site survey, photo-documentation and according to the detailed requirements found in the Specification Sections:

  - 31 05 17.01 Aggregates, Granular Materials and Marine Shells 31 22 01.01 Temporary Site Excavation and Grading
- 31 22 01.02 Site Restoration Grading
- 32 01 90 Operation and Maintenance of Planting
- 32 01 93.01 Tree, Shrub and Plant Material Preservation 32 11 23.01 Granular Base
- 32 14 02 Gravel Paths
- 32 91 21 Growing Medium and Finish Grading
- 32 92 00 Turf and Grasses
- 32 93 00.01 Replacement and Mitigation Plants
- 32 93 05 Relocation of Existing Plant Material
- The landscape architecture site, site element and vegetation restoration|rehabilitation requirements **do not** include requirements for the restoration|rehabilitation of the pond. Refer to geotechnical drawings and specifications for requirements for the reparation of impacts from the work to pond bathymetry, to the bentonite pond sealant, to overflow catchbasins and to the pond aeration system.



Existing Re-purposed Concrete Pavers (installed 2010) View G10 Sheet L3 (G10:L3)

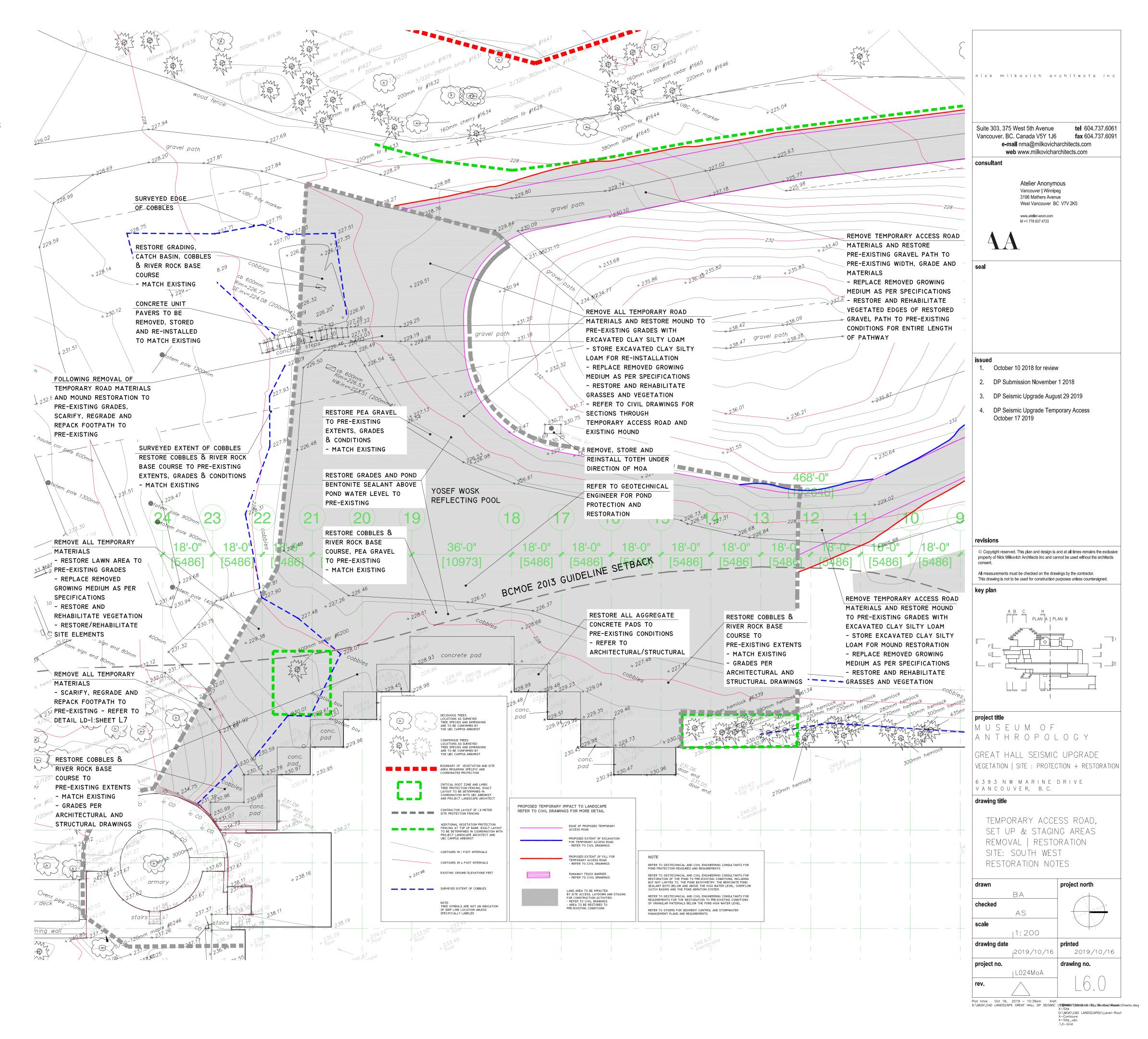


Existing Aggregate Materials Cobbles, Pea Gravel View G25 Sheet L5 (G25:L5)



Existing Distribution of Cobbles/Pea Gravel (Views G10 Sheet L3 (G10:L3)

Existing Layout Aggregate Materials Cobbles, Pea Gravel, Shell Beach (Views G23 Sheet L4 (G23:L4) Views G15 Sheet L4 (G15:L4)



## PROTECTION | PRESERVATION | RESTORATION | REHABILITATION Site Area West and North of Great Hall, Museum of Anthropology

Z"-3/4"LRUSHER DOST 4" - 3/4" MINUS POAD BASE river rock PATH RIVER POCK SEEDED MOUND

PHASE 2

Drawing PATH + RIVER ROCK EDGE CORNELIA HAHN OBERLANDER Project MUSEUM OF ANTHROPOLOGY 1372 Acadia Road, Vancouver, B.C. V6T 1P6 Tel: (604) 224-3967 Fax: (604)224-7347 Scale /z"=!' Date 21:12:05 Drawn By EW 510-05-032

Original Gravel Path Detail for Reference reference confined to area inside red box not to scale refer to Specification Section 32 14 02 Gravel Paths

PATH

