**NOTES:**
1. CONTRACTOR SHALL MAINTAIN A MINIMUM CLEARANCE BETWEEN THE TOP OF BOARDWALK AND EXISTING GRADE OF 4" TO 6".
2. CONTRACTOR SHALL MAINTAIN A MINIMUM CLEARANCE BETWEEN THE BOTTOM OF BOARDWALK AND EXISTING GRADE.
3. SEE STRUCTURAL SHEETS FOR DETAILED BOARDWALK PLAN AND SECTIONS.

**PROPOSED BOARDWALK**

- 10' WIDE UNIVERSAL BOARDWALK
- **EL. 785.32 BOTTOM / DECK**
- **EL. 786.55 TOP / DECK**

**LIMITS OF EXISTING GRADE**

- **MATCH LINE (SEE PROFILE ABOVE)**

**WETLAND BOARDWALK VIEWING PLATFORM**

- **55' TYP. BOTH SIDES (BY OTHERS)**
- **60' @ 1.58%**
- **91' (133.72' TOTAL) @ 0.06%**

**WOODLAND BOARDWALK**

- **68' @ 4.86%**
- **72' (181' TOTAL) @ 0.16%**

**EL. 785.97 BOTTOM / DECK**

**GENERAL**

- **1" = 10' HORIZ.**
- **1" = 10' VERT.**

**CHECKED**

- 06-14-19

**APPROVED**

- 03-12-19

**DATE**

- JANUARY 2019
GENERAL NOTES:

1. All soil erosion and sedimentation control measures shall conform to the current standards and specifications of the Oakland County Water Resources Commissioner.

2. Only practices shall be used by the Contractor to determine the effectiveness of the soil erosion and sedimentation control measures specified herein. Any necessary repairs shall be performed at the Contractor's expense.

3. Erosion and sediment controls from work on the site shall be completed within 10 calendar days of project completion.

4. The Contractor shall take actions as necessary to preserve natural vegetation outside of the limits of construction.

5. The Contractor shall take actions as necessary to protect wetland areas and where otherwise required.

6. Stabilization of all disturbed areas shall be completed within 10 calendar days of project completion.

7. The Contractor shall sweep the existing streets surrounding the project site weekly and after every storm event by the Contractor.

8. The Contractor shall be responsible for tree trimming and where otherwise required.

SOIL EROSION AND SEDIMENTATION CONTROL MEASURES

1. Soil erosion and sedimentation control measures shall be installed in accordance with the Soil Erosion and Sedimentation Control Specifications.

2. The construction access route shall be designed to provide access to the Innovation Hills site. The Contractor shall use the soil erosion and sedimentation control measures specified herein to protect natural resources and limit soil erosion.

3. The Contractor shall submit the proposed access route to the City of Rochester Hills and the City of Rochester for final approval prior to commencement of any work.

INNOVATION HILLS TRAILS

WOODLAND / WETLAND BOARDWALK

LEGEND:
- Soil erosion and sedimentation control measures
- Stabilization measures
- Silt fence
- Viewpoint
- Natural vegetation
- Wetland
- Wetland boardwalk
- Trail extension
- Access route
- Road
- Trail
- Street
- Water main
- Existing water main
- Proposed water main
- Transformer
- Viewing platform
- South loop boardwalk
- Woodland boardwalk
- Station
- Floodplain
- W.E.S.
- E.A.S.
- HRC JOB NO.
- DATE
- APPROVED
- CHECKED
- DRAWN
- L.M.S.
- J.A.R.
-SCALE: 1" = 40'
**HOT BOX ENCLOSURE (OPTION 1)**

- **Description:**
  - Standard H LBE-D fiberglass enclosure
  - Water Service w/ 14 Gauge, Solid Strand, Blue Tracer Wire
  - Service Location: Station Site Plan and Water
  - Note: (provided by the City)

**HOT BOX ENCLOSURE (OPTION 2)**

- **Description:**
  - Outdoor Enclosure for Backflow Prevention
  - Water Service Tap

- **Water Service Data:**
  - 1" Water Service
  - Water Meter Dimensions:
    - 1-1/2" x 10 inches

CONCRETE TAPPING SLEEVE DETAILS

TYPICAL GATE VALVE CONNECTION TO HDPE

MECHANICAL-JOINT ADAPTER

DETAILS FOR HIGH DENSITY POLYETHYLENE PIPE (HDPE)

WATER MAIN SPECIAL DETAILS

City of Rochester Hills
1000 Rochester Hills Drive, Rochester Hills, Michigan 48309

NOT TO SCALE DATE: 2/1/2008

SHEET 1 OF 1
WOODLAND BOARDWALK PLAN

- CONCRETE APPROACH
- STEEL RAILING
- ZINC COATED WOODEN FENCE
- TIMBER BOARDWALK

DECEMBER 2017

INNOVATION HILLS
TRAIL 3
WOODLAND BOARDWALK

NOTES:
1. THE DESIGN OF THE STRUCTURE IS BASED ON CURRENT MICHIGAN BRIDGE DESIGN SPECIFICATIONS AND ANSI/AASHTO/AJC 2016 FOR DESIGN OF TIMBER BRIDGE FEET/FEETING AND BRIDGE WORK.
2. THE DESIGN OF THE RAILING SYSTEM IS BASED ON CURRENT MICHIGAN BUILDING CODE FOR PEDESTRIAN BRIDGES PEDESTRIAN LOADING OF 90 PSF.
3. FOR CURB SPLICE DETAIL, SEE SHEET S-5.
4. FOR Curb SPICE DETAIL, SEE SHEET S-5.

THE DESIGN OF THIS STRUCTURE IS BASED ON CURRENT AASHTO LRFD BRIDGE DESIGN LOAD NOTES:

OWNER'S REVIEW
PERMIT AND FINAL REVIEW
ISSUED FOR BIDS

OAKLAND COUNTY
BLOOMFIELD HILLS, MICH.
P.O. BOX 824
FAX (1st. Floor): (248) 454-6312
WEB SITE: http://www.oakco.org

DECEMBER 2017

INNOVATION HILLS
TRAIL 3
WOODLAND BOARDWALK

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THE DESIGN OF THIS STRUCTURE IS BASED ON CURRENT AASHTO LRFD BRIDGE DESIGN LOAD NOTES:
WETLAND BOARDWALK PLAN

**NOTES:**

1. DIMENSIONED AS SHOWN AND MEASURED HORIZONTALLY (PLAN)
2. PILE WORK POINT (READY FOR ERECTMENT), SEE SHEET S-5
3. PILE IDENTIFIED WITH ARROW POINT
4. PILE CURVE SPICE DETAIL, SEE SHEET S-4

**DRAWN FOR:**

Nubsall, Bout & Clark, Inc.

**DESIGNATED FOR:**

CITY OF

**REVISIONS:**

03-12-19

**DATE:**

19070822

**SCALE:**

1" = 10'-0"

**CITY OF:**

INNOVATION HILLS

TRAILS

WETLAND BOARDWALK

OAKLAND COUNTY

WEB SITE: http://www.hrcengr.com

FAX (1ST FLOOR): (248) 454-6312

FAX (2ND FLOOR): (248) 454-6312

BLOOMFIELD HILLS, MICH.