



Transmittal

Date: _____ Job Number: _____
Project Name: _____
To: _____

We are sending these by

- | | | |
|--------------|---------|-------|
| US Mail | FedEx | UPS |
| Hand Deliver | Courier | Other |

We are sending you

- | | | | | | |
|---------------|--------------------------|---------------------|----------------|--------------|-------|
| Attached | Under separate cover via | the following items | | | |
| Shop drawings | Prints/Plans | Samples | Specifications | Change Order | Other |

| Number | Date | Copy | Description |
|--------|------|------|-------------|
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These are transmitted as checked below:

- | | | |
|------------------------|--------------------------|------------------|
| For your use | Approved as submitted | Resubmit |
| As requested | Approved as noted | Submit |
| For review and comment | Returned for corrections | Return |
| Copies for approval | Copies for distribution | Corrected prints |

Copy to: _____ Signed: _____
Phone: _____

February 22, 2022

Updated May 5, 2022

City of Portsmouth Conservation Commission

RE: *Portsmouth Regional Hospital – Radiation Oncology Project Narrative*

The existing Portsmouth Regional Hospital is located at 333 Borthwick Ave, Portsmouth, NH 03801 (Map 240, Lot 2-1). The medical campus is located on the east side of Blue Star Turnpike (I-95), the west side of Borthwick Avenue, and can be accessed via multiple entrances from Borthwick Avenue. The scope of the proposed Radiation Oncology project consists of internal renovations, and a 1-story building addition located on the southeast corner of the existing hospital building.

The proposed footprint of the building addition is approximately ±8,700 square feet. The proposed sitework is anticipated to consist of asphalt, concrete, utility, landscape, and drive-under canopy demolition where the current patient discharge canopy and associated drive are located as well as removal of existing sidewalk and landscaping located along the south side of the existing hospital building. Site improvements are anticipated to consist of the new building addition, new drive-under canopy and associated drive, sidewalk connectivity, new granite curb, new mobile imaging pad, and associated new utilities/ utility relocations.

A portion of the project scope is located adjacent to and partially within a previously man-made stormwater management area which is now delineated as a city jurisdictional inland wetland and has an associated 100-ft wetland buffer, in which a portion of the site improvements will occur. A small amount of disturbance to the actual wetland is being proposed. Refer to the attached wetland exhibit. Please note, the overall wetland data has been calculated with older drawings by others. Only the wetland adjacent to this project was delineated and flagged by Gove Environmental Services, Inc., and surveyed by James Verra and Associates, Inc. Refer to attached letter and site survey.

Wetlands and 100-foot buffer, Overall Site

- Subject Parcel: Map 240, Lot2-1 (±20.87 ac)
- Total wetland area onsite: approximately ±2.7 acres
- Total area of 100-foot wetland buffer onsite: approximately ±8.4 acres

Wetland and 100-foot buffer, Proposed Impact

- Area of inland wetland to be disturbed:
 - Permanent (due to proposed building location): ±200 square feet (sf)
 - Temporary (due to construction of proposed building and utility relocations, but will be planted back as wetlands): ±4,400 square feet (sf)
 - Total disturbance: ±4,600 square feet (sf)
- Area of 100-ft wetland buffer to be disturbed:
 - Permanent: ±13,200 sf
 - Temporary: ±4,300 sf

Stormwater drainage summary:

The drainage area to the existing man-made stormwater management area/ inland wetland that is located within the proposed project area (**Pond 1**) was analyzed utilizing provided site surveys as well as previous design drawings for the medical campus. It appears a portion of the southeastern parking lot drains to another existing man-made stormwater management area/ inland wetland that is located along the north side of Borthwick Avenue (**Pond 2**). Pond 2 drains to Pond 1 via a 21" RCP pipe. The drainage area to the Pond 2 remains the same as the current existing condition.

The drainage area to the Pond 1 also remains relatively the same as existing conditions as a portion of the existing hospital building roof will continue to drain to Pond 1, new roof for the proposed building addition is located where existing sidewalks and drives are currently located, and some existing pavement is being removed to allow Pond 1 to expand to provide additional pond volume to attempt to offset any pond volume lost due to the proposed project. The existing 24" RCP pipe outfall from Pond 1 remains in place. Refer to the attached drainage area exhibit.

Existing pond volume: ±54,190 cubic feet (cf)

Proposed pond volume: ±56,265 cubic feet (cf)

A HydroCAD stormwater model was utilized to analyze both the pre-developed and post-developed conditions, and the following results were generated for Type III, 24-hour storm events:



Total drainage area to Pond 1: +/-4.2 acres

| | CN | 2-yr (cfs) | 10-yr (cfs) | 25-yr (cfs) | 50-yr (cfs) | 100-yr (cfs) |
|-----------------|----|------------|-------------|-------------|-------------|--------------|
| Pre-developed: | 92 | 9.1 | 14.2 | 17.7 | 19.9 | 21.9 |
| Post-Developed: | 92 | 8.8 | 13.6 | 17.1 | 19.3 | 21.5 |

Per the table above, the stormwater discharge for the post-developed conditions from the revised Pond 1 are slightly less than the pre-developed conditions.

Please refer to the photos below, and attached supporting documentation. If you have any questions or need more information, please feel free to reach me by email (chris.akers@kimley-horn.com) or by phone at 615-476-4764.

Sincerely,
Chris Akers, Project Manager

| Photographs | Observations |
|--|---|
|  | <p>Southern portion of hospital campus with subject wetland (image taken from internal front drive).</p> |
| Photographs | Observations |
|  | <p>East elevation of hospital building where Radiation Oncology addition is proposed (image taken from internal front drive).</p> <p>Construction activity from current ICU Med/ Surg Stepdown project.</p> |



Southern portion of hospital campus with subject wetland (image taken from internal ambulance/ ED drive).

Photographs

Observations



Existing brick canopy at Patient Discharge to be removed.

Construction activity from current ICU Med/ Surg Stepdown project.



Brick emergency generator enclosure to remain.



February 21, 2022

Kimley-Horn and Associates, Inc.
10 Lea Avenue, Suite 400
Nashville, TN 37210

404 Wyman Street, Suite 385
Waltham, MA 02451

RE: Agent Authorization

To Whom It May Concern:

Be advised that I am the Chief Executive Officer of the Portsmouth Regional Hospital located at 333 Borthwick Ave, Portsmouth, NH 03801. I am an authorized agent to the owners of HCA Health Services of New Hampshire, Inc. dba Portsmouth Regional Hospital. As the authorized agent, I hereby authorize and empower:

Kimley-Horn and Associates, Inc. to act as agent/ representative to communicate and submit required information as necessary in obtaining site-related approvals and permits for the proposed Radiation Oncology Addition project located at 333 Borthwick Ave, Portsmouth, NH 03801.

A handwritten signature in blue ink, appearing to read "D. M. Carucci", written over a horizontal line.

Owner's Signature
Dean M. Carucci, CEO

Details

| Property | |
|-----------------------|-------------------|
| Location | 333 BORTHWICK AVE |
| Map-Lot | 0240-0002-0001 |
| Vision Account Number | 35555 |

| Ownership | |
|-----------|---|
| Owner | HCA HEALTH SVC OF NH INC D/B/A PRH 32902 C/O DUCCHARME MCMILLEN & ASSOC |
| Address | PO BOX 80610, INDIANAPOLIS, IN 46280 |

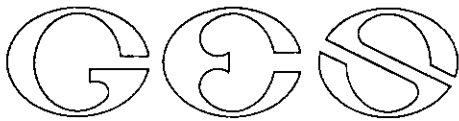
| Valuation | |
|-----------|--------------|
| Total | \$86,709,000 |
| Last Sale | \$0 on |
| Book/Page | 2784/1340 |

| Land | |
|------------------|-------|
| Parcel Area (AC) | 20.87 |

| Zoning | |
|--------|----|
| Zoning | OR |

The image shows a map interface with a search sidebar. The map displays a property highlighted in blue, situated near the Blue Star Turnpike and Borthwick Ave. A search sidebar on the right contains the following elements:

- Search bar with a magnifying glass icon and a right-pointing arrow.
- Advanced Search button (red background, white text).
- Download Results button (white background, blue icon).
- More button (white background, blue icon).
- Text: "Showing 1-1 results. Scroll to see more."
- Search results list (red border, white background):
 - 333 BORTHWICK AVE
 - HCA HEALTH SVC OF NH INC D/B/A PRH 32902 C/O DUCCHARME MCMILLEN & ASSOC
 - 0240-0002-0001



GOVE ENVIRONMENTAL SERVICES, INC.

October 15, 2019

Portsmouth Regional Hospital

Subject: Wetland Delineation Report
Portsmouth Regional Hospital
333 Borthwick Ave, Portsmouth, NH

Dear Chris Akers,

Per your request, this letter is to verify that Gove Environmental Services, Inc., performed a site inspection to identify wetlands at Portsmouth Regional Hospital, 333 Borthwick Ave, Portsmouth, NH. Wetlands were evaluated utilizing the following standards:

1. *US Army Corps of Engineers Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region, Technical Report ERDC/EL TR-12-1 (January 2012).*
2. *Field Indicators for Identifying Hydric Soils in New England – Version 4, April 2019. New England Hydric Soils Technical Committee.*
3. *US Army Corps of Engineers National Wetland Plant List, 2018.*
4. *Classification of Wetlands and Deepwater Habitats of the United States. USFW Manual FWS/OBS-79/31 (1979).*

Brenden Walden performed the site inspection on 9/17/19. During the site inspection, two areas of wetland were identified on the Site. The wetland areas were demarcated with a series of pink “Wetland Delineation” flagging consecutively labeled:

1 Start – 15 Stop & A1-A22

The attached sketch plan depicts the general location of the flag series, which were used to identify the resource areas in the field. A general description of the wetlands is also provided

The wetland demarcated by the **1 Start – 15 Stop** series of flags, delineated a drainage area dominated by emergent vegetation, hydric soils on the wetland border consisted of NE-S1 & HTM-S hydric soil classifications, soil saturation and water staining were also observed. Bordering upland area consisted developed area and impervious surface.

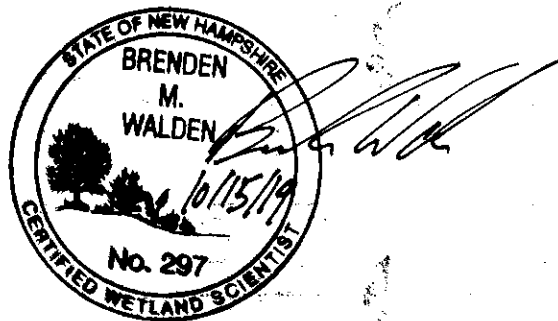
The wetland demarcated by the **A1-A22** series of flags, delineated the wetland boundary for a detention basin vegetated with emergent vegetation. The wetland boundary consisted of NE-S with areas of HTM-S. Bordering upland areas consist of maintained lawn areas and impervious surface from surrounding development.

This concludes the wetland delineation report. If I can be of further assistance, please feel free to contact me at (603) 778-0644.

Sincerely,

Brenden Walden
Business Manager & Wetland Scientist
Gove Environmental Services, Inc.

Enc. Wetland Delineation Sketch



8 Continental Dr Unit H, Exeter, NH 03833-7507

Ph (603) 778 0644 / Fax (603) 778 0654

www.gesinc.biz

info@gesinc.biz



15 Stop

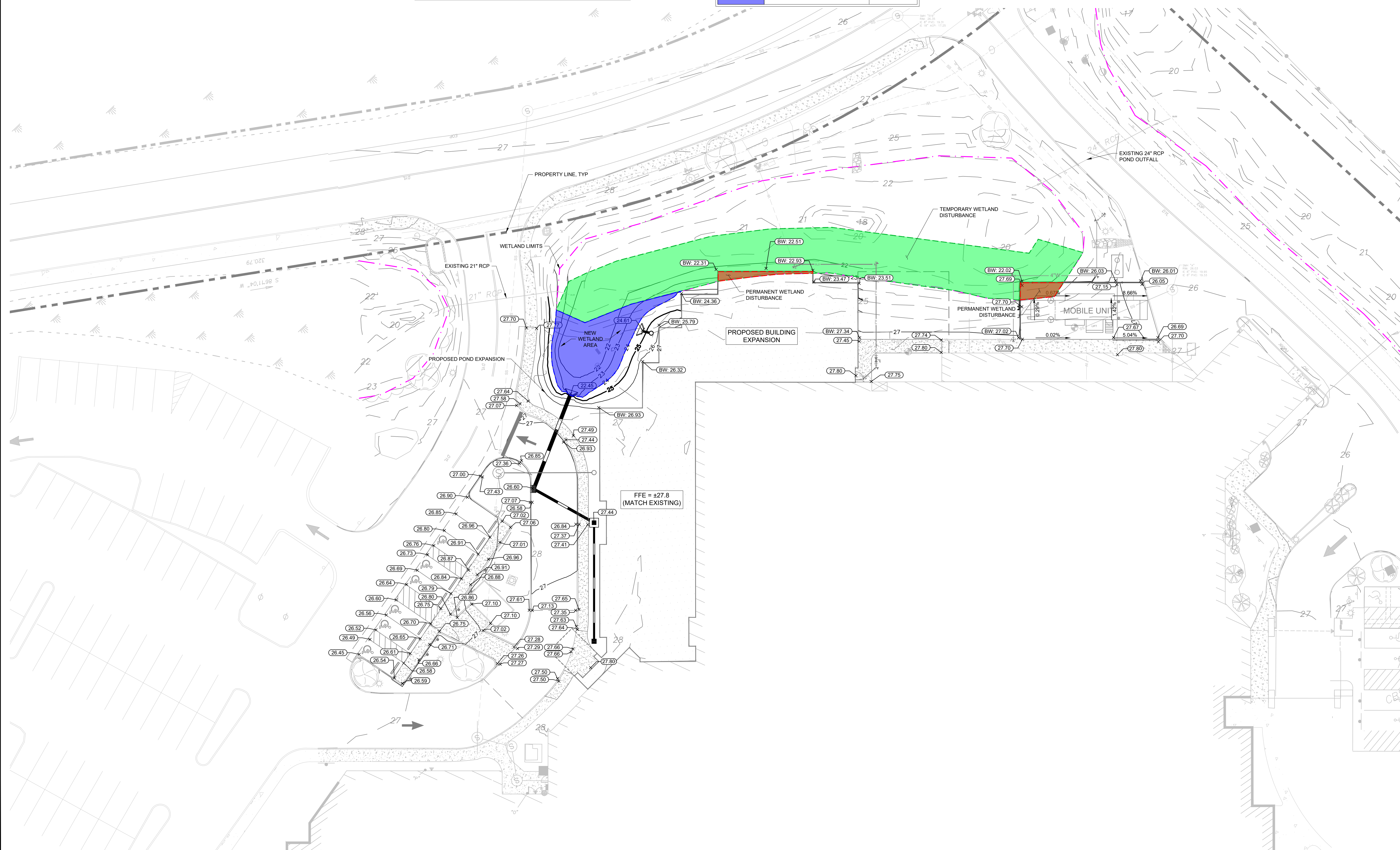
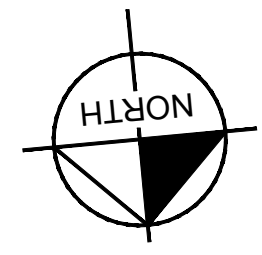
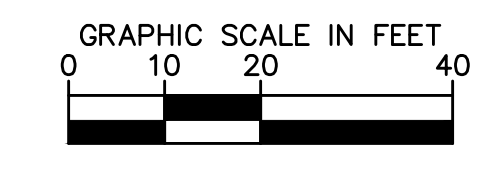
15 Stop

A-A22

| GRADING PLAN LEGEND | |
|---------------------|------------------------------|
| 26.60 | SPOT ELEVATION |
| HP | HIGH POINT |
| TC | TOP OF CURB |
| TW | GRADE AT TOPSIDE OF WALL |
| IN | INVERT |
| ME | MATCH EXISTING |
| FFE | FINISH FLOOR ELEVATION |
| 27 | EXISTING CONTOUR |
| 27 | PROPOSED CONTOUR |
| LP | LOW POINT |
| BC | BOTTOM OF CURB / GUTTER LINE |
| BW | GRADE AT BOTTOM SIDE OF WALL |
| RM | TOP OF GRATE / COVER |

| WETLAND IMPACT LEGEND | | |
|-----------------------|-------------------------------|------------|
| | DESCRIPTION | AREA |
| | TEMPORARY WETLAND DISTURBANCE | ± 4,400 SF |
| | PERMANENT WETLAND DISTURBANCE | ± 200 SF |
| | PROPOSED WETLANDS | ± 1,150 SF |

| WETLAND SUMMARY | |
|--------------------------------|-------------|
| EXISTING WETLAND AREA: | ± 10,300 SF |
| PERMANENT WETLAND DISTURBANCE: | ± 200 SF |
| PROPOSED WETLAND ADDED: | ± 1,150 SF |
| NEW WETLAND AREA: | ± 11,250 SF |



Kimley»Horn
 404 WYMAN STREET, SUITE 385 WALTHAM, MA 02451
 MAINT/781.328.0676 | WWW.KIMLEY-HORN.COM
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**PORTSMOUTH REGIONAL
 HOSPITAL
 RADIATION ONCOLOGY ADDITION**
 PORTSMOUTH, NEW HAMPSHIRE

| NO. | DATE | BY |
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| 1 | | |
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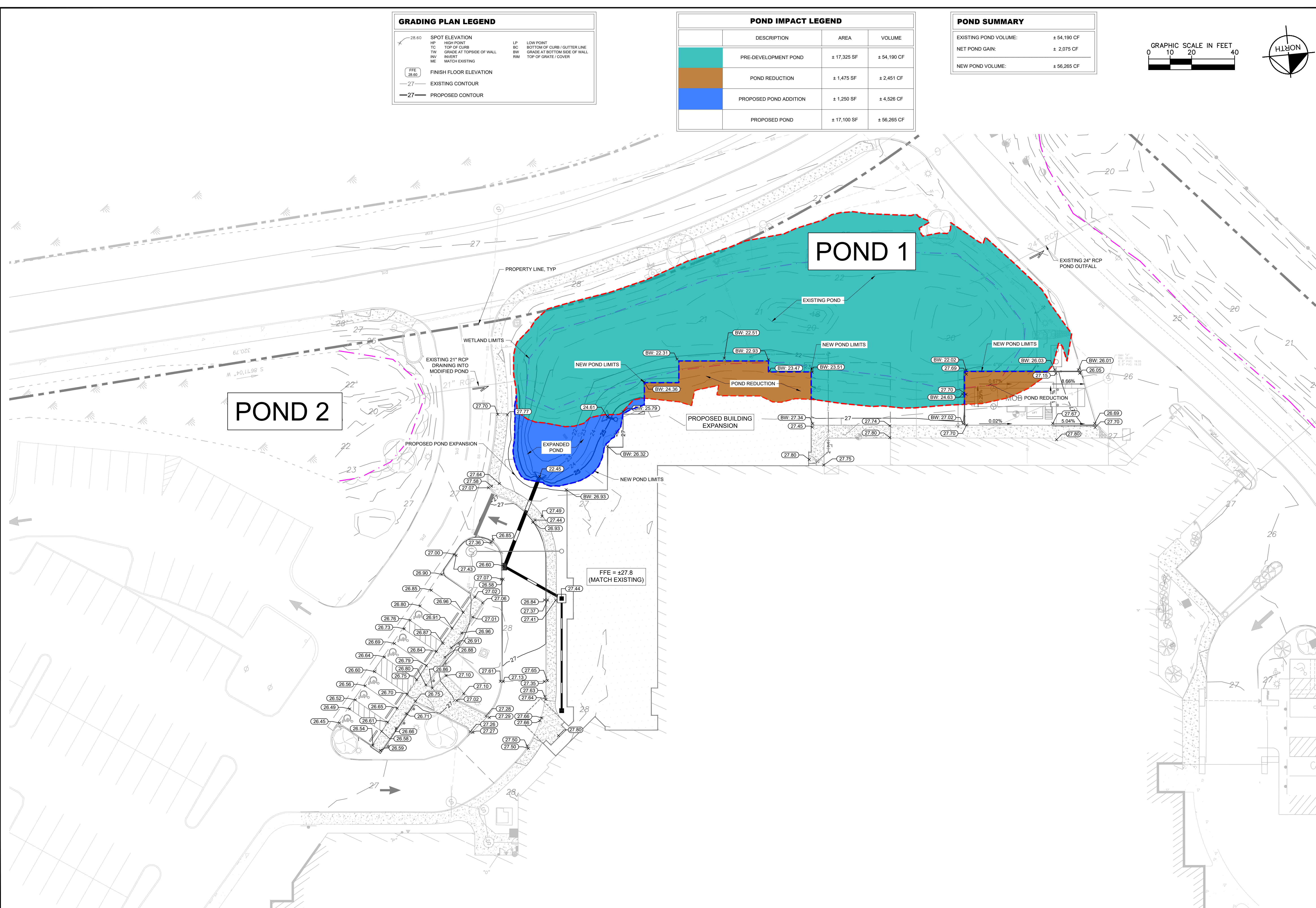
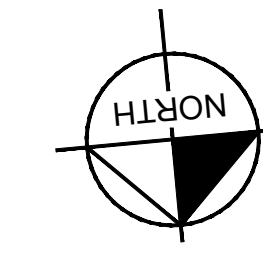
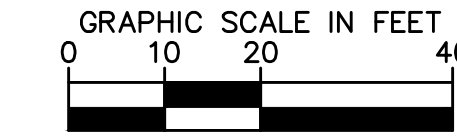
DESIGNED BY:
 DRAWN BY:
 CHECKED BY:
 DATE: 05/05/2022
 KIMLEY-HORN PROJECT NO. 118252004

**WETLAND
 DISTURBANCE
 EX. A**

| GRADING PLAN LEGEND | | | |
|---------------------|--------------------------|----|------------------------------|
| 26.60 | SPOT ELEVATION | LP | LOW POINT |
| HP | HIGH POINT | BC | BOTTOM OF CURB / GUTTER LINE |
| TC | TOP OF CURB | BW | GRADE AT BOTTOM SIDE OF WALL |
| TW | GRADE AT TOPSIDE OF WALL | RM | TOP OF GRATE / COVER |
| IN | INVERT | | |
| ME | MATCH EXISTING | | |
| FFE | FINISH FLOOR ELEVATION | | |
| 27 | EXISTING CONTOUR | | |
| 27 | PROPOSED CONTOUR | | |

| POND IMPACT LEGEND | | | |
|--------------------|------------------------|-------------|-------------|
| | DESCRIPTION | AREA | VOLUME |
| | PRE-DEVELOPMENT POND | ± 17,325 SF | ± 54,190 CF |
| | POND REDUCTION | ± 1,475 SF | ± 2,451 CF |
| | PROPOSED POND ADDITION | ± 1,250 SF | ± 4,526 CF |
| | PROPOSED POND | ± 17,100 SF | ± 56,265 CF |

| POND SUMMARY | |
|-----------------------|-------------|
| EXISTING POND VOLUME: | ± 54,190 CF |
| NET POND GAIN: | ± 2,075 CF |
| NEW POND VOLUME: | ± 56,265 CF |



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PORTSMOUTH REGIONAL
 HOSPITAL
 RADIATION ONCOLOGY ADDITION
 PORTSMOUTH, NEW HAMPSHIRE

| NO. | DATE | BY |
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DESIGNED BY:
 DRAWN BY:
 CHECKED BY:
 DATE: 05/05/2022
 KIMLEY-HORN PROJECT NO. 118252004

POND MODIFICATION
EX. B

Hydrograph Return Period Recap

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020.4

| Hyd. No. | Hydrograph type (origin) | Inflow hyd(s) | Peak Outflow (cfs) | | | | | | | | Hydrograph Description |
|----------|--------------------------|---------------|--------------------|-------|-------|-------|-------|-------|-------|--------|-------------------------|
| | | | 1-yr | 2-yr | 3-yr | 5-yr | 10-yr | 25-yr | 50-yr | 100-yr | |
| 1 | SCS Runoff | ----- | ----- | 16.61 | ----- | 23.20 | 28.61 | 36.05 | 41.44 | 47.34 | PRE-DEVELOPMENT RUNOFF |
| 2 | SCS Runoff | ----- | ----- | 16.61 | ----- | 23.20 | 28.61 | 36.05 | 41.44 | 47.34 | POST-DEVELOPMENT RUNOFF |
| 3 | Reservoir | 1 | ----- | 9.051 | ----- | 10.72 | 14.18 | 17.71 | 19.92 | 21.93 | PRE-DEVELOPMENT |
| 4 | Reservoir | 2 | ----- | 8.827 | ----- | 10.59 | 13.57 | 17.12 | 19.33 | 21.45 | POST-DEVELOPMENT |

Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020.4

| Hyd. No. | Hydrograph type (origin) | Peak flow (cfs) | Time interval (min) | Time to Peak (min) | Hyd. volume (cuft) | Inflow hyd(s) | Maximum elevation (ft) | Total strge used (cuft) | Hydrograph Description | |
|-------------------|--------------------------|-----------------|---------------------|--------------------|-----------------------|---------------|------------------------|-------------------------|-------------------------|--|
| 1 | SCS Runoff | 16.61 | 2 | 716 | 35,198 | ----- | ----- | ----- | PRE-DEVELOPMENT RUNOFF | |
| 2 | SCS Runoff | 16.61 | 2 | 716 | 35,198 | ----- | ----- | ----- | POST-DEVELOPMENT RUNOFF | |
| 3 | Reservoir | 9.051 | 2 | 722 | 33,767 | 1 | 22.45 | 9,429 | PRE-DEVELOPMENT | |
| 4 | Reservoir | 8.827 | 2 | 722 | 33,767 | 2 | 22.41 | 9,733 | POST-DEVELOPMENT | |
| POND EXISTING.gpw | | | | | Return Period: 2 Year | | | Thursday, 05 / 5 / 2022 | | |

Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020.4

Thursday, 05 / 5 / 2022

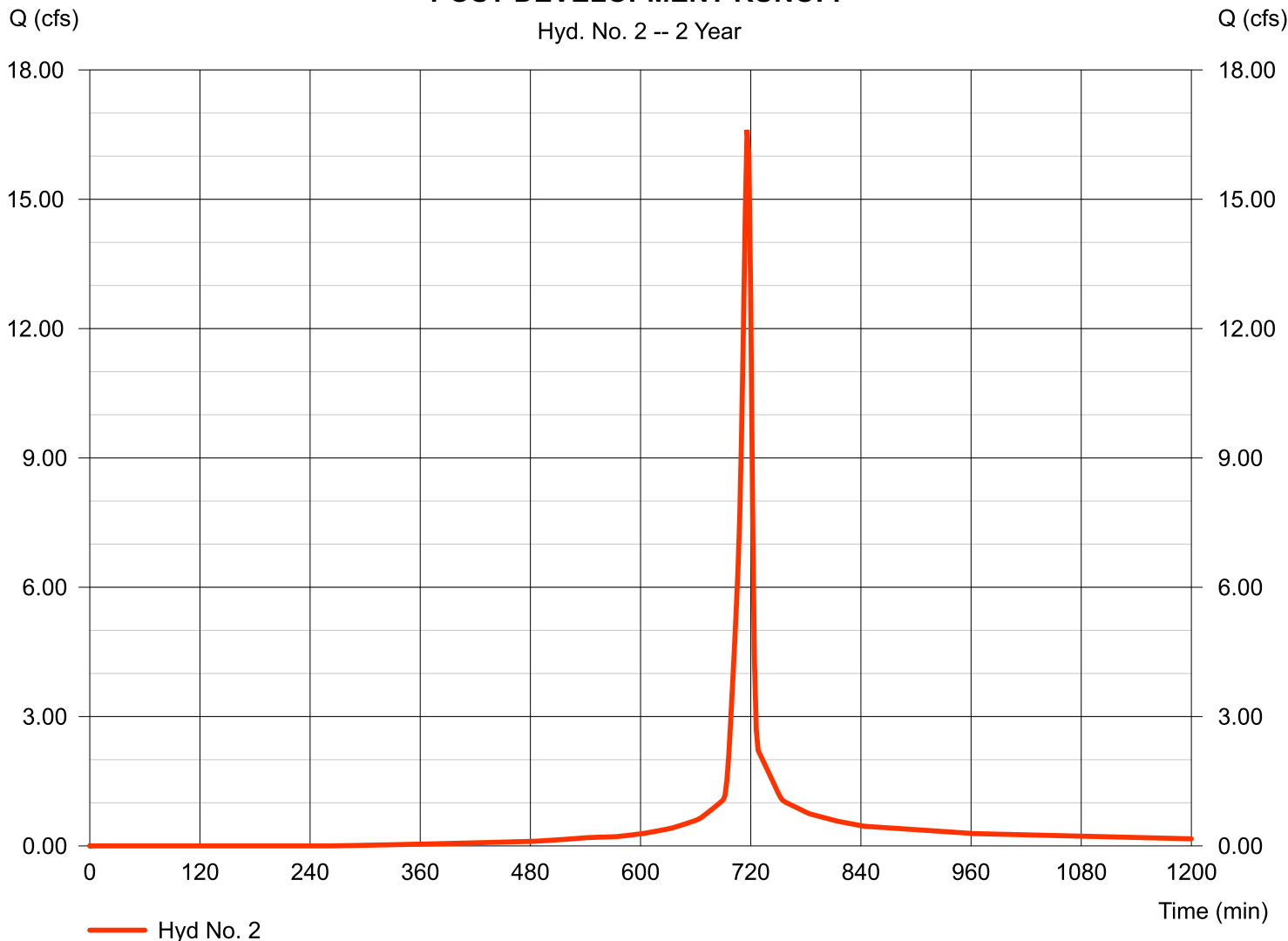
Hyd. No. 2

POST-DEVELOPMENT RUNOFF

| | | | |
|-----------------|--------------|--------------------|---------------|
| Hydrograph type | = SCS Runoff | Peak discharge | = 16.61 cfs |
| Storm frequency | = 2 yrs | Time to peak | = 716 min |
| Time interval | = 2 min | Hyd. volume | = 35,198 cuft |
| Drainage area | = 4.180 ac | Curve number | = 92* |
| Basin Slope | = 0.0 % | Hydraulic length | = 0 ft |
| Tc method | = TR55 | Time of conc. (Tc) | = 5.00 min |
| Total precip. | = 3.33 in | Distribution | = Type II |
| Storm duration | = 24 hrs | Shape factor | = 484 |

* Composite (Area/CN) = [(0.910 x 98) + (1.320 x 79) + (1.950 x 98)] / 4.180

POST-DEVELOPMENT RUNOFF



Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020.4

| Hyd. No. | Hydrograph type (origin) | Peak flow (cfs) | Time interval (min) | Time to Peak (min) | Hyd. volume (cuft) | Inflow hyd(s) | Maximum elevation (ft) | Total strge used (cuft) | Hydrograph Description | |
|-------------------|--------------------------|-----------------|---------------------|--------------------|-----------------------|---------------|------------------------|-------------------------|-------------------------|--|
| 1 | SCS Runoff | 23.20 | 2 | 716 | 50,272 | ----- | ----- | ----- | PRE-DEVELOPMENT RUNOFF | |
| 2 | SCS Runoff | 23.20 | 2 | 716 | 50,272 | ----- | ----- | ----- | POST-DEVELOPMENT RUNOFF | |
| 3 | Reservoir | 10.72 | 2 | 722 | 48,841 | 1 | 22.91 | 13,320 | PRE-DEVELOPMENT | |
| 4 | Reservoir | 10.59 | 2 | 724 | 48,841 | 2 | 22.80 | 13,648 | POST-DEVELOPMENT | |
| POND EXISTING.gpw | | | | | Return Period: 5 Year | | | Thursday, 05 / 5 / 2022 | | |

Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020.4

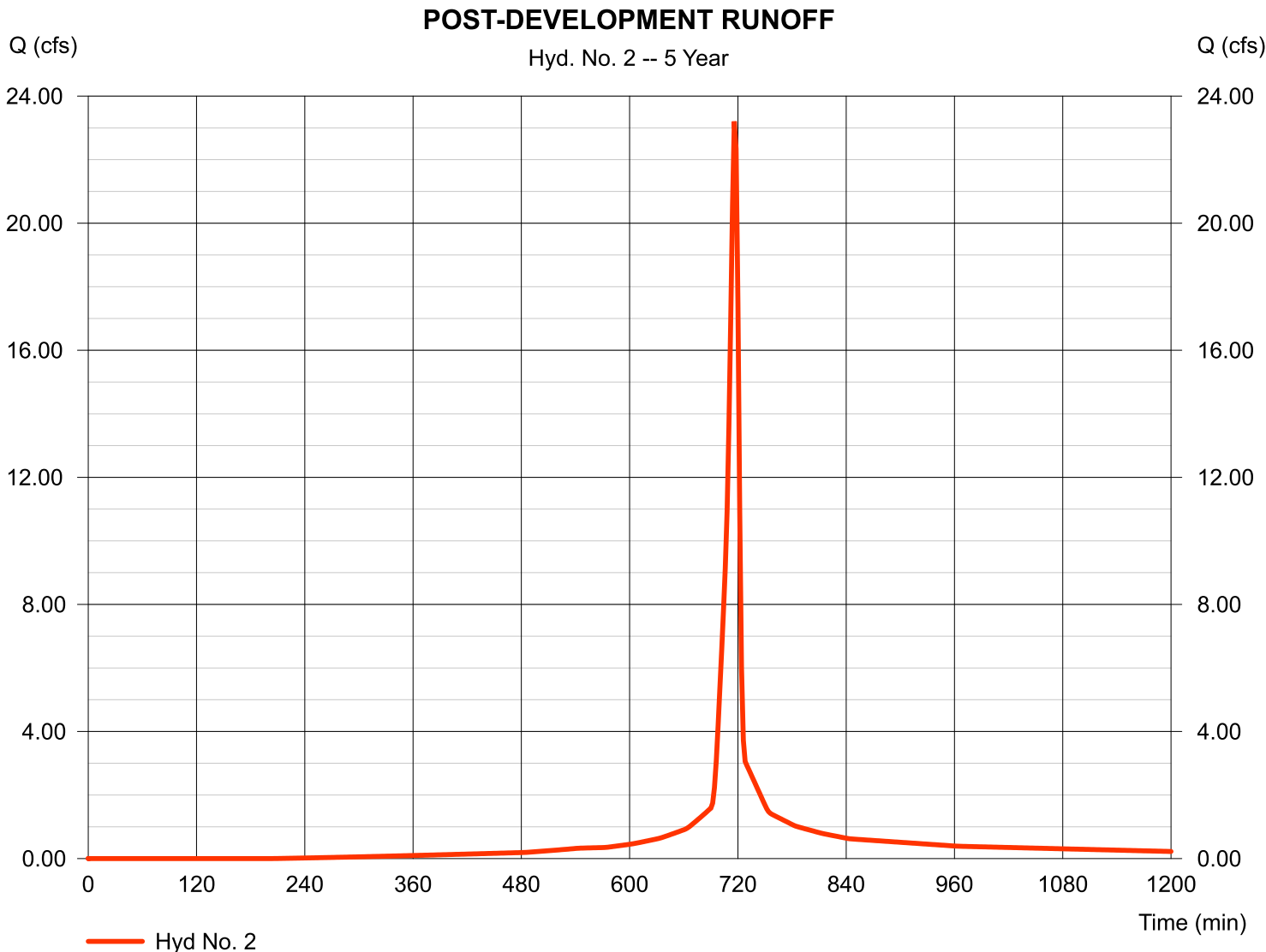
Thursday, 05 / 5 / 2022

Hyd. No. 2

POST-DEVELOPMENT RUNOFF

| | | | |
|-----------------|--------------|--------------------|---------------|
| Hydrograph type | = SCS Runoff | Peak discharge | = 23.20 cfs |
| Storm frequency | = 5 yrs | Time to peak | = 716 min |
| Time interval | = 2 min | Hyd. volume | = 50,272 cuft |
| Drainage area | = 4.180 ac | Curve number | = 92* |
| Basin Slope | = 0.0 % | Hydraulic length | = 0 ft |
| Tc method | = TR55 | Time of conc. (Tc) | = 5.00 min |
| Total precip. | = 4.43 in | Distribution | = Type II |
| Storm duration | = 24 hrs | Shape factor | = 484 |

* Composite (Area/CN) = [(0.910 x 98) + (1.320 x 79) + (1.950 x 98)] / 4.180



Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020.4

| Hyd. No. | Hydrograph type (origin) | Peak flow (cfs) | Time interval (min) | Time to Peak (min) | Hyd. volume (cuft) | Inflow hyd(s) | Maximum elevation (ft) | Total strge used (cuft) | Hydrograph Description | |
|-------------------|--------------------------|-----------------|---------------------|--------------------|------------------------|---------------|------------------------|-------------------------|-------------------------|--|
| 1 | SCS Runoff | 28.61 | 2 | 716 | 62,900 | ----- | ----- | ----- | PRE-DEVELOPMENT RUNOFF | |
| 2 | SCS Runoff | 28.61 | 2 | 716 | 62,900 | ----- | ----- | ----- | POST-DEVELOPMENT RUNOFF | |
| 3 | Reservoir | 14.18 | 2 | 722 | 61,470 | 1 | 23.21 | 16,336 | PRE-DEVELOPMENT | |
| 4 | Reservoir | 13.57 | 2 | 722 | 61,469 | 2 | 23.15 | 16,866 | POST-DEVELOPMENT | |
| POND EXISTING.gpw | | | | | Return Period: 10 Year | | | Thursday, 05 / 5 / 2022 | | |

Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020.4

Thursday, 05 / 5 / 2022

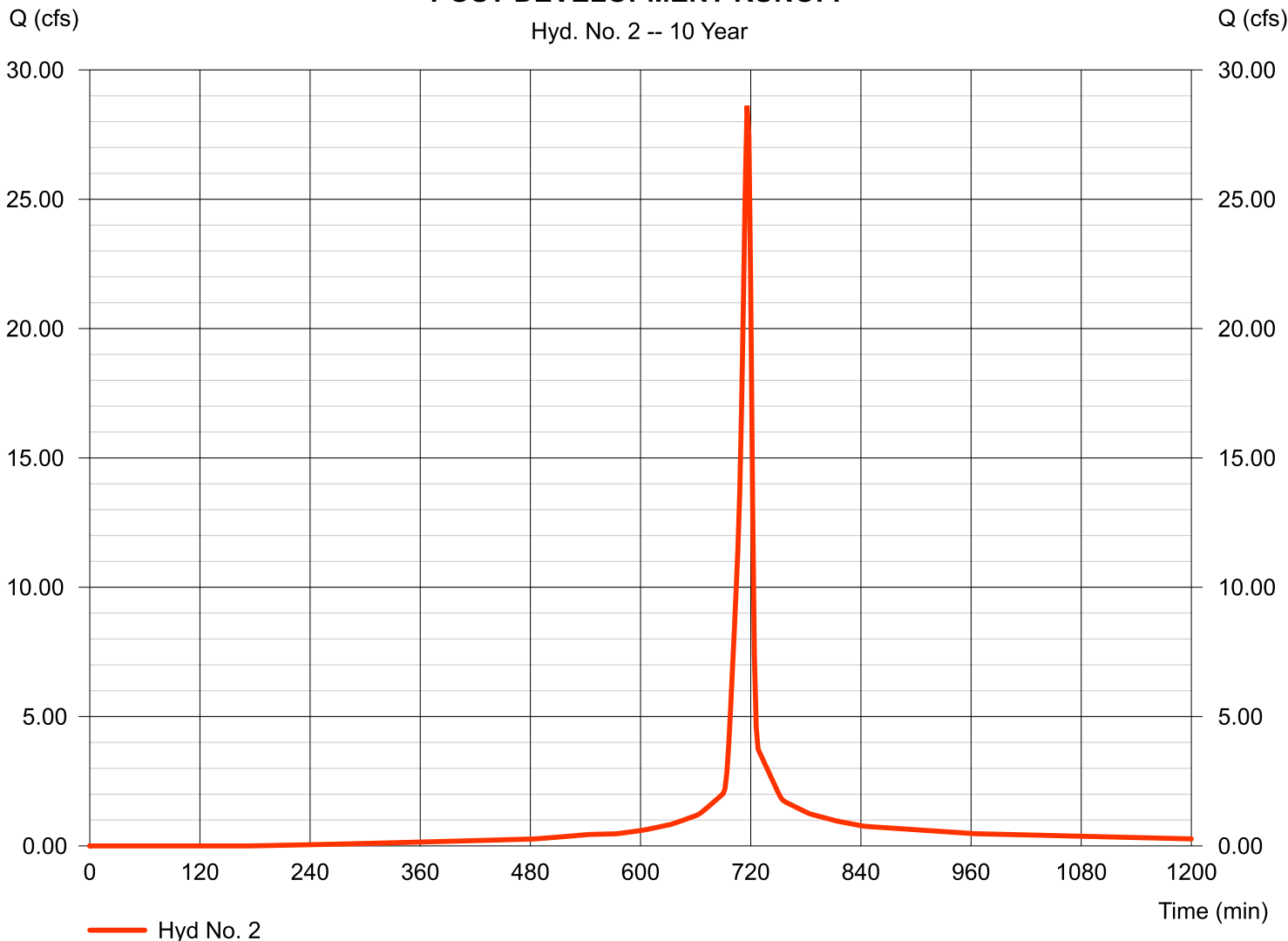
Hyd. No. 2

POST-DEVELOPMENT RUNOFF

| | | | |
|-----------------|--------------|--------------------|---------------|
| Hydrograph type | = SCS Runoff | Peak discharge | = 28.61 cfs |
| Storm frequency | = 10 yrs | Time to peak | = 716 min |
| Time interval | = 2 min | Hyd. volume | = 62,900 cuft |
| Drainage area | = 4.180 ac | Curve number | = 92* |
| Basin Slope | = 0.0 % | Hydraulic length | = 0 ft |
| Tc method | = TR55 | Time of conc. (Tc) | = 5.00 min |
| Total precip. | = 5.34 in | Distribution | = Type II |
| Storm duration | = 24 hrs | Shape factor | = 484 |

* Composite (Area/CN) = [(0.910 x 98) + (1.320 x 79) + (1.950 x 98)] / 4.180

POST-DEVELOPMENT RUNOFF



Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020.4

| Hyd. No. | Hydrograph type (origin) | Peak flow (cfs) | Time interval (min) | Time to Peak (min) | Hyd. volume (cuft) | Inflow hyd(s) | Maximum elevation (ft) | Total strge used (cuft) | Hydrograph Description | |
|-------------------|--------------------------|-----------------|---------------------|--------------------|------------------------|---------------|------------------------|-------------------------|-------------------------|--|
| 1 | SCS Runoff | 36.05 | 2 | 716 | 80,516 | ----- | ----- | ----- | PRE-DEVELOPMENT RUNOFF | |
| 2 | SCS Runoff | 36.05 | 2 | 716 | 80,516 | ----- | ----- | ----- | POST-DEVELOPMENT RUNOFF | |
| 3 | Reservoir | 17.71 | 2 | 722 | 79,085 | 1 | 23.60 | 20,589 | PRE-DEVELOPMENT | |
| 4 | Reservoir | 17.12 | 2 | 722 | 79,085 | 2 | 23.53 | 21,204 | POST-DEVELOPMENT | |
| POND EXISTING.gpw | | | | | Return Period: 25 Year | | | Thursday, 05 / 5 / 2022 | | |

Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020.4

Thursday, 05 / 5 / 2022

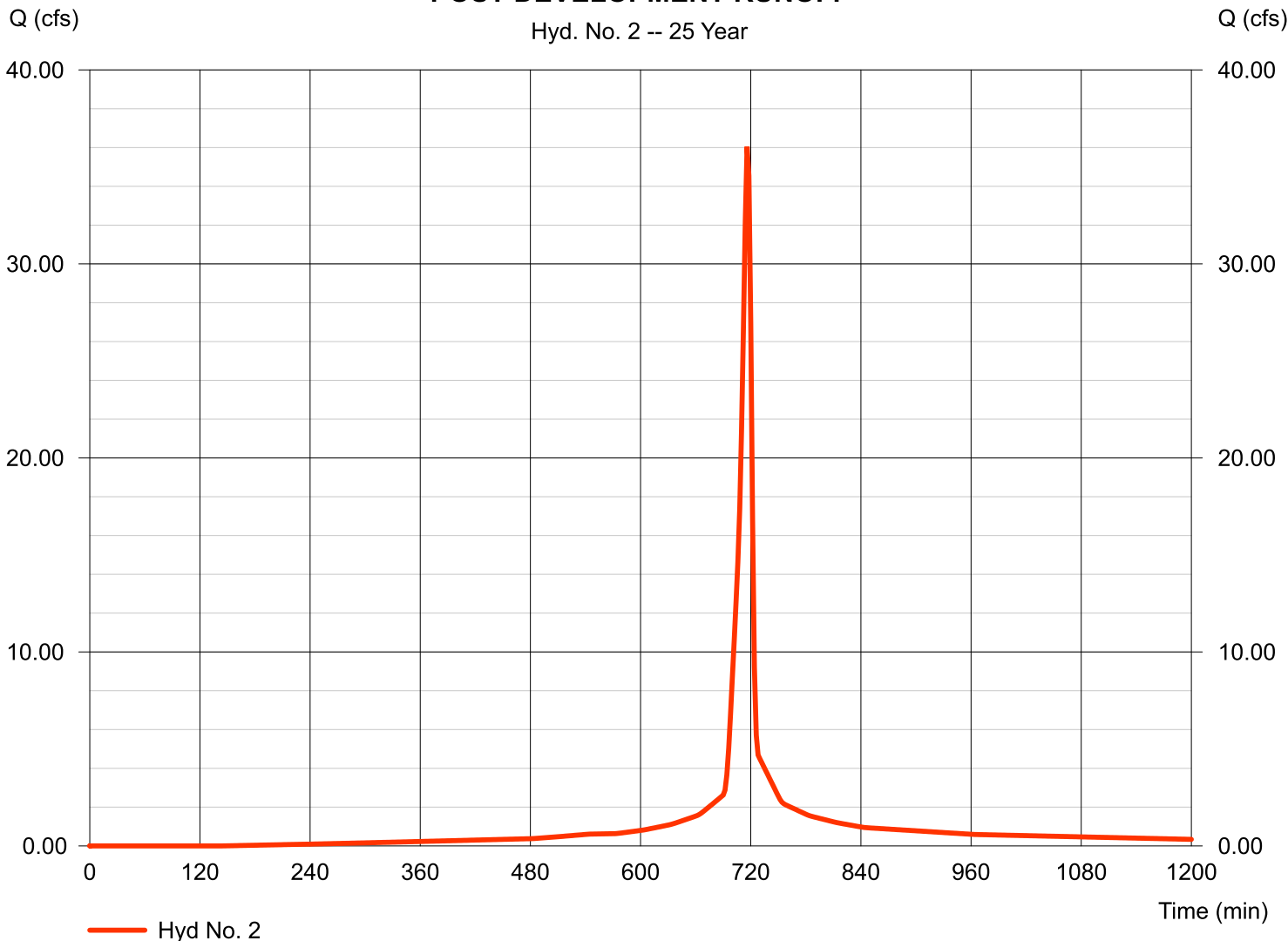
Hyd. No. 2

POST-DEVELOPMENT RUNOFF

| | | | |
|-----------------|--------------|--------------------|---------------|
| Hydrograph type | = SCS Runoff | Peak discharge | = 36.05 cfs |
| Storm frequency | = 25 yrs | Time to peak | = 716 min |
| Time interval | = 2 min | Hyd. volume | = 80,516 cuft |
| Drainage area | = 4.180 ac | Curve number | = 92* |
| Basin Slope | = 0.0 % | Hydraulic length | = 0 ft |
| Tc method | = TR55 | Time of conc. (Tc) | = 5.00 min |
| Total precip. | = 6.60 in | Distribution | = Type II |
| Storm duration | = 24 hrs | Shape factor | = 484 |

* Composite (Area/CN) = [(0.910 x 98) + (1.320 x 79) + (1.950 x 98)] / 4.180

POST-DEVELOPMENT RUNOFF



Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020.4

| Hyd. No. | Hydrograph type (origin) | Peak flow (cfs) | Time interval (min) | Time to Peak (min) | Hyd. volume (cuft) | Inflow hyd(s) | Maximum elevation (ft) | Total strge used (cuft) | Hydrograph Description | |
|-------------------|--------------------------|-----------------|---------------------|--------------------|------------------------|---------------|------------------------|-------------------------|-------------------------|--|
| 1 | SCS Runoff | 41.44 | 2 | 716 | 93,438 | ----- | ----- | ----- | PRE-DEVELOPMENT RUNOFF | |
| 2 | SCS Runoff | 41.44 | 2 | 716 | 93,438 | ----- | ----- | ----- | POST-DEVELOPMENT RUNOFF | |
| 3 | Reservoir | 19.92 | 2 | 722 | 92,008 | 1 | 23.88 | 23,729 | PRE-DEVELOPMENT | |
| 4 | Reservoir | 19.33 | 2 | 722 | 92,007 | 2 | 23.80 | 24,417 | POST-DEVELOPMENT | |
| POND EXISTING.gpw | | | | | Return Period: 50 Year | | | Thursday, 05 / 5 / 2022 | | |

Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020.4

Thursday, 05 / 5 / 2022

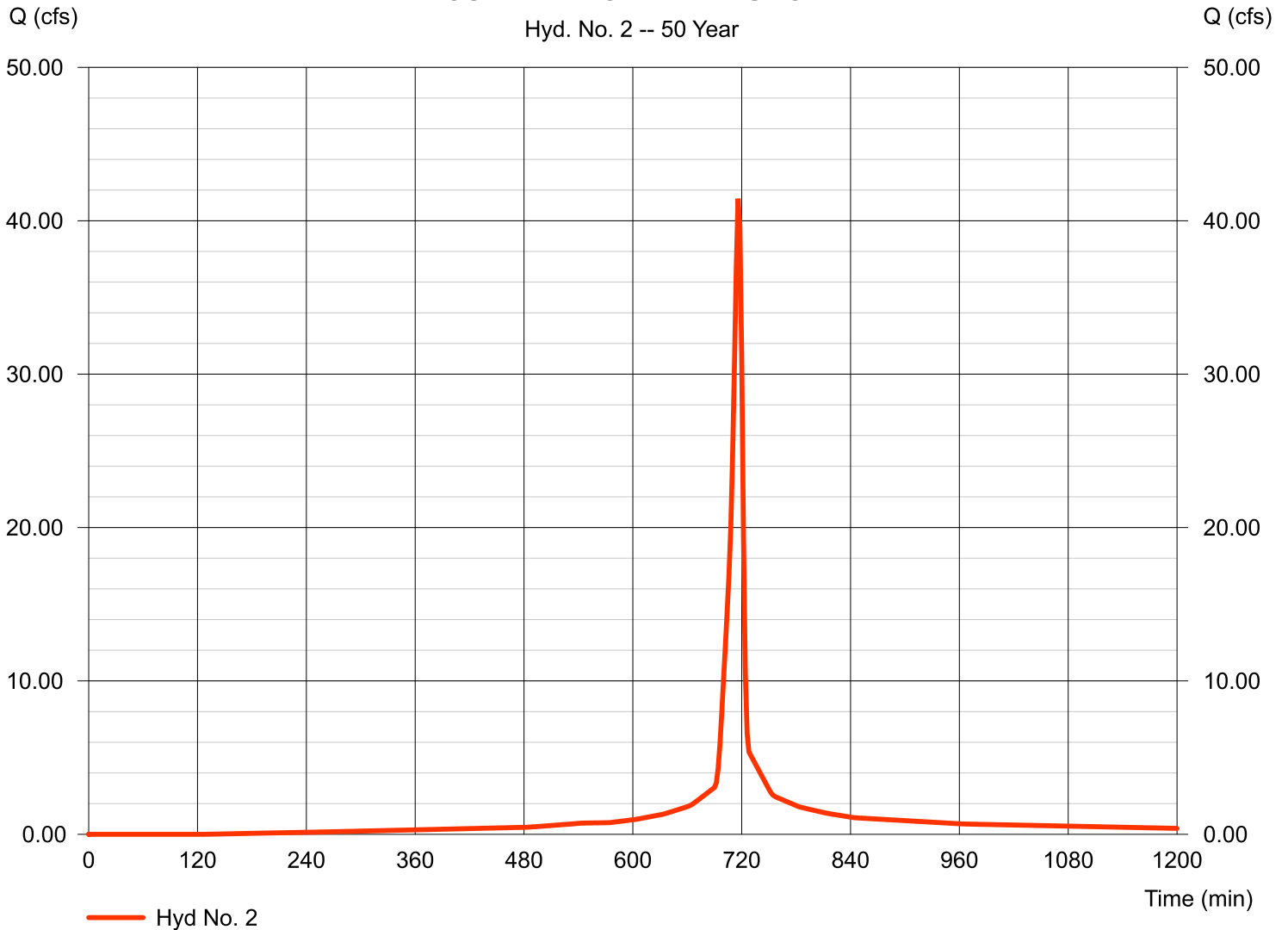
Hyd. No. 2

POST-DEVELOPMENT RUNOFF

| | | | |
|-----------------|--------------|--------------------|---------------|
| Hydrograph type | = SCS Runoff | Peak discharge | = 41.44 cfs |
| Storm frequency | = 50 yrs | Time to peak | = 716 min |
| Time interval | = 2 min | Hyd. volume | = 93,438 cuft |
| Drainage area | = 4.180 ac | Curve number | = 92* |
| Basin Slope | = 0.0 % | Hydraulic length | = 0 ft |
| Tc method | = TR55 | Time of conc. (Tc) | = 5.00 min |
| Total precip. | = 7.52 in | Distribution | = Type II |
| Storm duration | = 24 hrs | Shape factor | = 484 |

* Composite (Area/CN) = [(0.910 x 98) + (1.320 x 79) + (1.950 x 98)] / 4.180

POST-DEVELOPMENT RUNOFF



Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020.4

| Hyd. No. | Hydrograph type (origin) | Peak flow (cfs) | Time interval (min) | Time to Peak (min) | Hyd. volume (cuft) | Inflow hyd(s) | Maximum elevation (ft) | Total strge used (cuft) | Hydrograph Description | |
|-------------------|--------------------------|-----------------|---------------------|--------------------|-------------------------|---------------|------------------------|-------------------------|-------------------------|--|
| 1 | SCS Runoff | 47.34 | 2 | 716 | 107,662 | ----- | ----- | ----- | PRE-DEVELOPMENT RUNOFF | |
| 2 | SCS Runoff | 47.34 | 2 | 716 | 107,662 | ----- | ----- | ----- | POST-DEVELOPMENT RUNOFF | |
| 3 | Reservoir | 21.93 | 2 | 722 | 106,232 | 1 | 24.17 | 27,298 | PRE-DEVELOPMENT | |
| 4 | Reservoir | 21.45 | 2 | 722 | 106,231 | 2 | 24.10 | 28,058 | POST-DEVELOPMENT | |
| POND EXISTING.gpw | | | | | Return Period: 100 Year | | | Thursday, 05 / 5 / 2022 | | |

Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020.4

Thursday, 05 / 5 / 2022

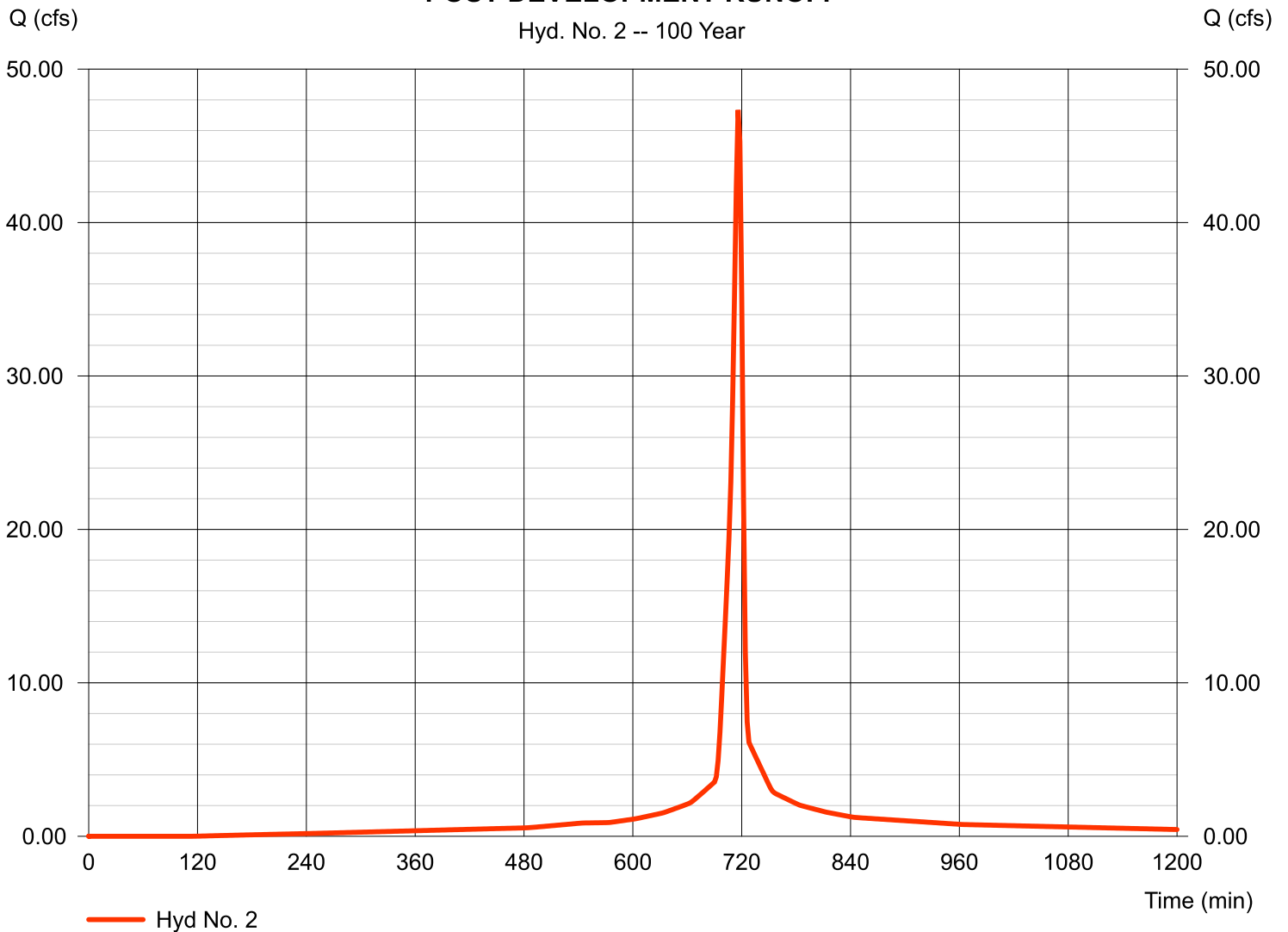
Hyd. No. 2

POST-DEVELOPMENT RUNOFF

| | | | |
|-----------------|--------------|--------------------|----------------|
| Hydrograph type | = SCS Runoff | Peak discharge | = 47.34 cfs |
| Storm frequency | = 100 yrs | Time to peak | = 716 min |
| Time interval | = 2 min | Hyd. volume | = 107,662 cuft |
| Drainage area | = 4.180 ac | Curve number | = 92* |
| Basin Slope | = 0.0 % | Hydraulic length | = 0 ft |
| Tc method | = TR55 | Time of conc. (Tc) | = 5.00 min |
| Total precip. | = 8.53 in | Distribution | = Type II |
| Storm duration | = 24 hrs | Shape factor | = 484 |

* Composite (Area/CN) = [(0.910 x 98) + (1.320 x 79) + (1.950 x 98)] / 4.180

POST-DEVELOPMENT RUNOFF

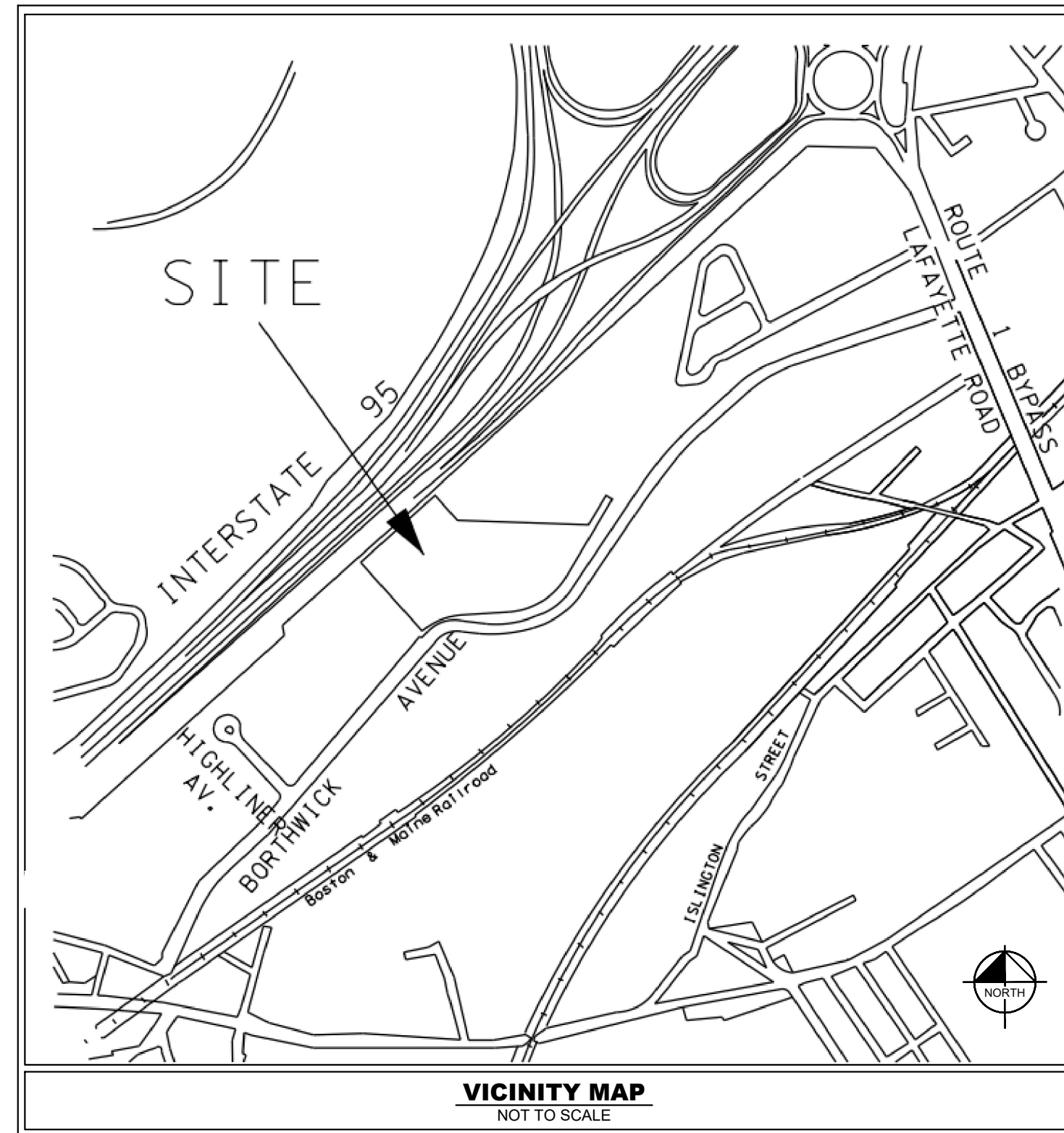


SITE CIVIL PLANS FOR PORTSMOUTH REGIONAL HOSPITAL RADIATION ONCOLOGY ADDITION

333 BORTHWICK AVENUE, PORTSMOUTH, NH 03801

CONSERVATION COMMISSION SET: MAY 5, 2022

| SITE DATA TABLE | | |
|---|--|----------------------|
| OWNER OF RECORD | HCA HEALTH SERVICES OF NH INC D/B/A PRH 32902 | |
| SITE ADDRESS | 333 BORTHWICK AVE, PORTSMOUTH, NH 03801 | |
| SITE AREA | ± 20.87 AC | |
| DISTURBANCE LIMITS W/ THIS PROJECT | ± 0.7 AC | |
| TAX MAP & LOT | TAX MAP 240, LOT 2-1 | |
| ZONING | OR - OFFICE RESEARCH | |
| | REQUIRED | PROPOSED |
| FRONT YARD SETBACK | 50'-0" | ±40' |
| REAR YARD SETBACK | 50'-0" | ±157' |
| SIDE YARD SETBACK | 75'-0" | ±71" (EXISTING) |
| MIN. OPEN SPACE ON A LOT | 30% | ±39.0% |
| MAX BUILDING COVERAGE | 30% | ± 20.1% |
| BUILDING DATA | | |
| | EXISTING | PROPOSED ADDITION |
| HOSPITAL BEDS | 233 | 0 |
| HOSPITAL/ MOB FLOOR PLATE | ±173,916 SF | ± 8,700 SF |
| HOSPITAL GROSS AREA | ±427,495 SF | ± 8,870 SF |
| MEDICAL OFFICE BUILDING GROSS AREA (ATTACHED TO HOSPITAL BUILDING) | ±46,665 SF | 0 SF |
| BUILDING HEIGHT | ± 65'-4" | ± 14'-8" |



| Sheet List Table | |
|------------------|--------------------------------|
| SHEET NUMBER | SHEET TITLE |
| C0.00 | COVER SHEET |
| C0.01 | GENERAL NOTES |
| C0.02 | SURVEY BY OTHERS |
| C1.00 | EXISTING CONDITIONS - OVERALL |
| C2.00 | SITE DEMOLITION PLAN |
| C3.00 | EROSION CONTROL PLAN - PHASE 1 |
| C3.01 | EROSION CONTROL PLAN - PHASE 2 |
| C3.02 | EROSION CONTROL DETAILS |
| C4.00 | SITE LAYOUT - OVERALL |
| C4.01 | SITE LAYOUT - ENLARGEMENT |
| C5.00 | GRADING & DRAINAGE PLAN |
| C6.00 | SITE UTILITY PLAN |
| C7.00 | SITE DETAILS |
| C7.01 | SITE DETAILS |

| PARKING SUMMARY | | | | |
|--|----------|------------|----------|------------|
| | EXISTING | DEMOLISHED | PROPOSED | NET RESULT |
| ONSITE STANDARD SPACES | 754 | 11 | 2 | 745 |
| ONSITE ACCESSIBLE (INCLUDING VAN ACCESSIBLE) | 29 | 4 | 6 | 31 |
| OFFSITE STANDARD SPACES* | 0 | 0 | 490 | 490 |
| OFFSITE ACCESSIBLE (INCLUDING VAN ACCESSIBLE)* | 0 | 0 | 11 | 11 |
| TOTAL | | | | 1277 |

*PER SATELLITE PARKING LOT DRAWINGS PREPARED BY TIGHE & BOND

| REFERENCE PLANS |
|--|
| 1. "LOT LINE REVISION PLAN FOR PORTSMOUTH HOSPITAL OFFICE BUILDING ASSOCIATION, ISLINGTON WOOD, LLC AND HCA REALTY, INC. (TAX MAP 234, LOTS 7-4A & 7-4B) (TAX MAP 240, LOT 2-2) BORTHWICK AVENUE EXTENSION PORTSMOUTH, NEW HAMPSHIRE" DATED JAN 13, 2006 PREPARED BY DOUCET SURVEY, INC., R.C.R.D. PLAN #0-33642 |
| 2. "TOPOGRAPHIC PLAN" AT PORTSMOUTH REGIONAL HOSPITAL FOR HCA HEALTH SERVICES OF NH, INC. DATED OCTOBER 10, 2007 BY DOUCET SURVEY. |
| 3. "SIDEWALK SITE PLAN" FOR PORTSMOUTH REGIONAL HOSPITAL FOR HCA HEALTH SERVICES OF NH, INC. DATED OCTOBER 22, 2003 BY MILLETTE, SPRAGUE & COLWELL. |
| 4. "SITE PLAN" FOR PORTSMOUTH REGIONAL HOSPITAL FOR HCA HEALTH SERVICES OF NH, INC. DATED AUGUST 19, 2002 BY MILLETTE, SPRAGUE & COLWELL. SHEET 2 OF 3. |
| 5. JURISDICTIONAL WETLANDS WERE DELINEATED BY NHSC, INC. ON SEPTEMBER 25, 2007 IN ACCORDANCE WITH THE 1987 CORPS OF ENGINEERS WETLANDS DELINEATION MANUAL, AS REQUIRED BY THE NH DES WETLANDS BUREAU. |
| 6. "TOPOGRAPHIC WORKSHEET" OF THE POWERLINES BY ISLINGTON & BORTHWICK AVE. * PREPARED BY EASTERN TOPOGRAPHIC FOR DOUCET SURVEY, DATED SEPT 25, 2007. |
| 7. "PORTSMOUTH REGIONAL HOSPITAL PHASE 1 ADDITIONS AND RENOVATIONS" BY APPLIED ENGINEERING, INC., DATED APRIL 1, 2008. |
| 8. JURISDICTIONAL WETLANDS DELINEATION BY GOVE ENVIRONMENTAL SERVICES, INC. DATED OCTOBER 2019. |
| 9. TOPOGRAPHIC SURVEY BY JAMES VERRA & ASSOCIATES, INC. DATED 10/2019. |
| 10. SHEETS C-2 AND C-2A OF "PORTSMOUTH HOSPITAL EXPANSION" BY APPLIED ENGINEERING, DATED 8/4/11. *REVISED TO ADD REAR PARKING* |

PROJECT DESIGN TEAM

ARCHITECT

GOULD TURNER GROUP, P.C.
615 3RD AVENUE SOUTH, SUITE 700
NASHVILLE, TN 37210
PHONE: (615) 254-1500
CONTACT: CHRIS DUMONT, AIA

CIVIL ENGINEER

KIMLEY-HORN AND ASSOCIATES, INC.
404 WYMAN STREET, SUITE 385
WALTHAM, MA 02451
PHONE: (781) 328-0676
CONTACT: CHRIS AKERS

M,P,E & T CONSULTANTS

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2950 KRAFT DRIVE, SUITE 500
NASHVILLE, TN 37204
PHONE: (615) 346-3400
CONTACT: BOYD JOHNSON

SURVEY

JAMES VERRA & ASSOCIATES, INC.
101 SHATTUCK WAY, SUITE 8
NEWINGTON, NH 03801
PHONE: (603) 436-3557
CONTACT: JIM VERRA, LLS

ENVIRONMENTAL

GOVE ENVIRONMENTAL SERVICES, INC
8 CONTINENTAL DR, UNIT H
EXETER, NH 03833
PHONE: (603) 778-0654
CONTACT: BRENDEN WALDEN

STRUCTURAL ENGINEER

STANLEY D. LINDSEY & ASSOCIATES, LTD.
750 OLD HICKORY BLVD, BLD 1, SUITE 175
BRENTWOOD, TN 37027
PHONE: (615) 320-1735
CONTACT: MARK HILNER

UTILITY CONTACTS

WATER/ SANITARY SEWER

PORTSMOUTH DEPT OF
PUBLIC WORKS
MIKE JENKINS
680 PEVERLY HILL ROAD
PORTSMOUTH, NH 03801
PHONE: (603) 427-1530

NATURAL GAS

NORTHERN UTILITIES, INC.
JEFF INGLISH
325 WEST ROAD
PORTSMOUTH, NH 03801
PHONE (603) 436-0310

TELEPHONE/ CABLE

CONSOLIDATED COMMUNICATIONS
1575 GREENLOAD ROAD
GREENLAND, NH 03840
PHONE: (800) 240-5019

ELECTRIC

PUBLIC SERVICES OF NH/ EVERSOURCE
WAYNE BROOKS
1700 LAFAYETTE ROAD
PORTSMOUTH, NH 03801
PHONE:(800) 662-7764



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Kimley»Horn
404 WYMAN STREET, SUITE 385 WALTHAM, MA 02451
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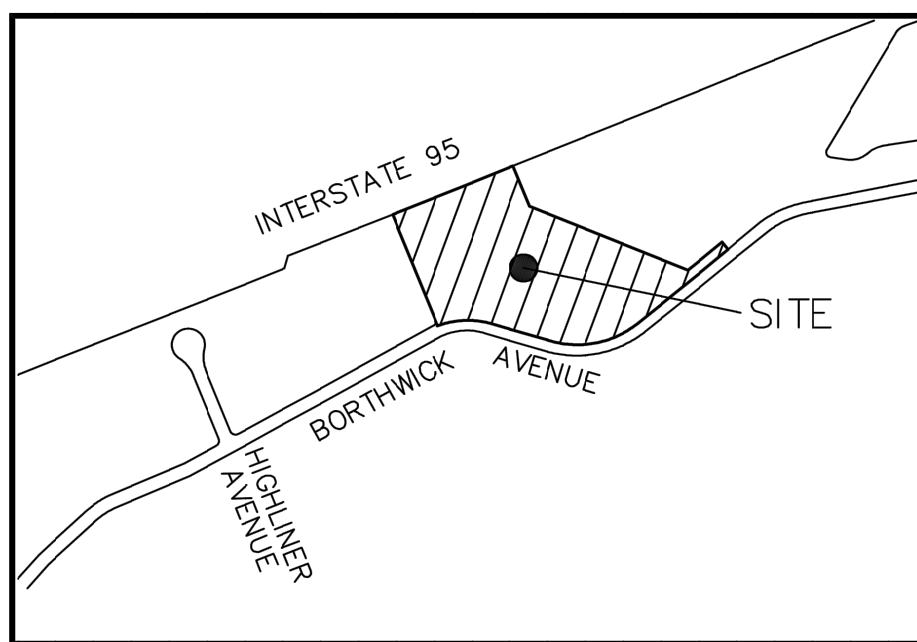
PORTSMOUTH REGIONAL
HOSPITAL
RADIATION ONCOLOGY ADDITION
PORTSMOUTH, NEW HAMPSHIRE

| NO. | DATE | BY |
|-----|------|----|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |
| 9 | | |
| 10 | | |

DESIGNED BY:
DRAWN BY:
CHECKED BY:
DATE: 05/05/2022
KIMLEY-HORN PROJECT NO.
118252004

COVER SHEET

C0.00



LOCUS
(N.T.S.)

INTERSTATE 95
N 48°03'04" E
684.16

AS-BUILT LOCATION OF 10' WIDE GAS MAIN EASEMENT PER RCRD PLAN #D-15830

RIM AND INVERT DATA

- CB DPW#5741 RIM = 26.58
WATER LEVEL=23.57
- CB DPW#5740 RIM = 25.42
(1) INV (15"HDPE)=21.86
(2) INV (15"RCP)=INACCESS.
- CB DPW#3189 RIM = 25.66
INACCESSIBLE(FILLED)
- CONTECH DMH #4 RIM = 25.77
(1) Inv (15"HDPE)=INACCESS.
(2) Inv (15"HDPE)=INACCESS.
- SMH "A" RIM = 26.03
(1) INV (8"PVC)=19.95
(2) INV (8"PVC)=19.33
- SMH DPW#519 RIM = 26.35
(1) INV (8"PVC)=19.31
CL (18"ACP)=17.25
- SMH DPW#5481 RIM = 27.27
(1) INV (8"PVC)=18.07
(2) INV (10"PVC)=17.64
(3) INV (10"PVC)=17.59
- SMH DPW#5482 RIM = 27.65
(1) INV (8"PVC)=19.04
(2) INV (8"PVC)=23.50
(3) INV (8"PVC)=19.06
- SMH DPW#5483 RIM = 27.50
(1) INV (8"PVC)=18.44
(2) INV (8"PVC)=18.44

BOUNDARY CURVE TABLE

| CURVE | ARC LENGTH | RADIUS | DELTA | ANGLE | CHORD BEARING | CHORD LENGTH |
|-------|------------|--------|-----------|-------|---------------|--------------|
| C2 | 294.05 | 464.64 | 36°15'38" | S | 68°03'15" W | 289.17 |

BOUNDARY LINE TABLE

| LINE | BEARING | DISTANCE |
|------|---------------|----------|
| L3 | N 41°56'56" W | 10.00 |
| L15 | N 87°57'24" W | 895.13 |
| L16 | N 41°56'56" W | 229.05 |

DRAINAGE INVERT ELEVATION TABLE

| LOCATION | DESCRIPTION | ELEVATION |
|----------|------------------|-----------|
| "A" | 48" ARCHED CMP | 21.01 |
| "B" | 24" RCP | 20.52 |
| "C" | 24" RCP | 20.90 |
| "D" | 21" RCP | 21.04 |
| "E" | 21" RCP | 21.72 |
| "F" | 12" PVC | 22.04 |
| "G" | 16" PVC | 21.32 |
| "H" | 16" PVC | 21.44 |
| "I" | 16" PVC | 21.43 |
| "J" | 16" PVC | 21.51 |
| "K" | 4" PVC | 24.38 |
| "L" | 15" RCP | 21.18 |
| "M" | 6" METAL OUTLET | 28.89 |
| "N" | 1" METAL OUTLET | 28.58 |
| "O" | 4" METAL OUTLET | 28.38 |
| "P" | 6" CAST IRON(C) | 28.92 |
| "Q" | 12" CAST IRON(C) | 21.23 |
| "R" | 12" CAST IRON(C) | 21.22 |
| "S" | 6" METAL OUTLET | 28.80 |
| "T" | 15" RCP | 22.15 |

BUILDING FLOOR ELEVATION TABLE

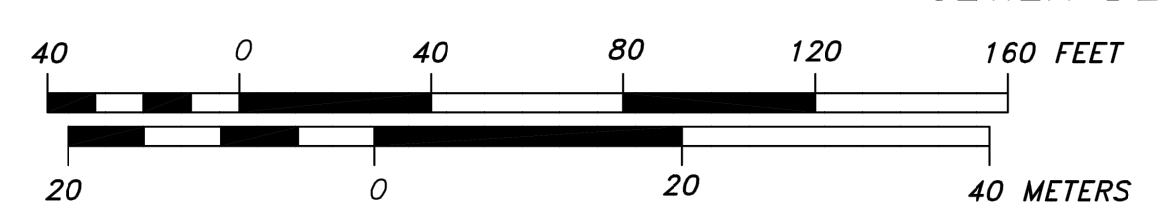
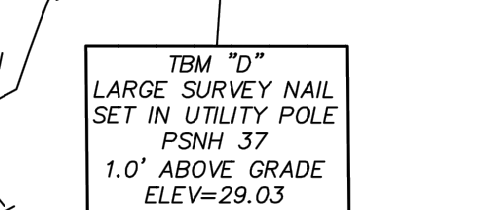
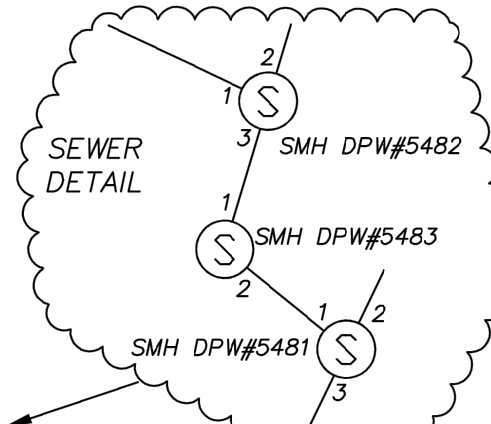
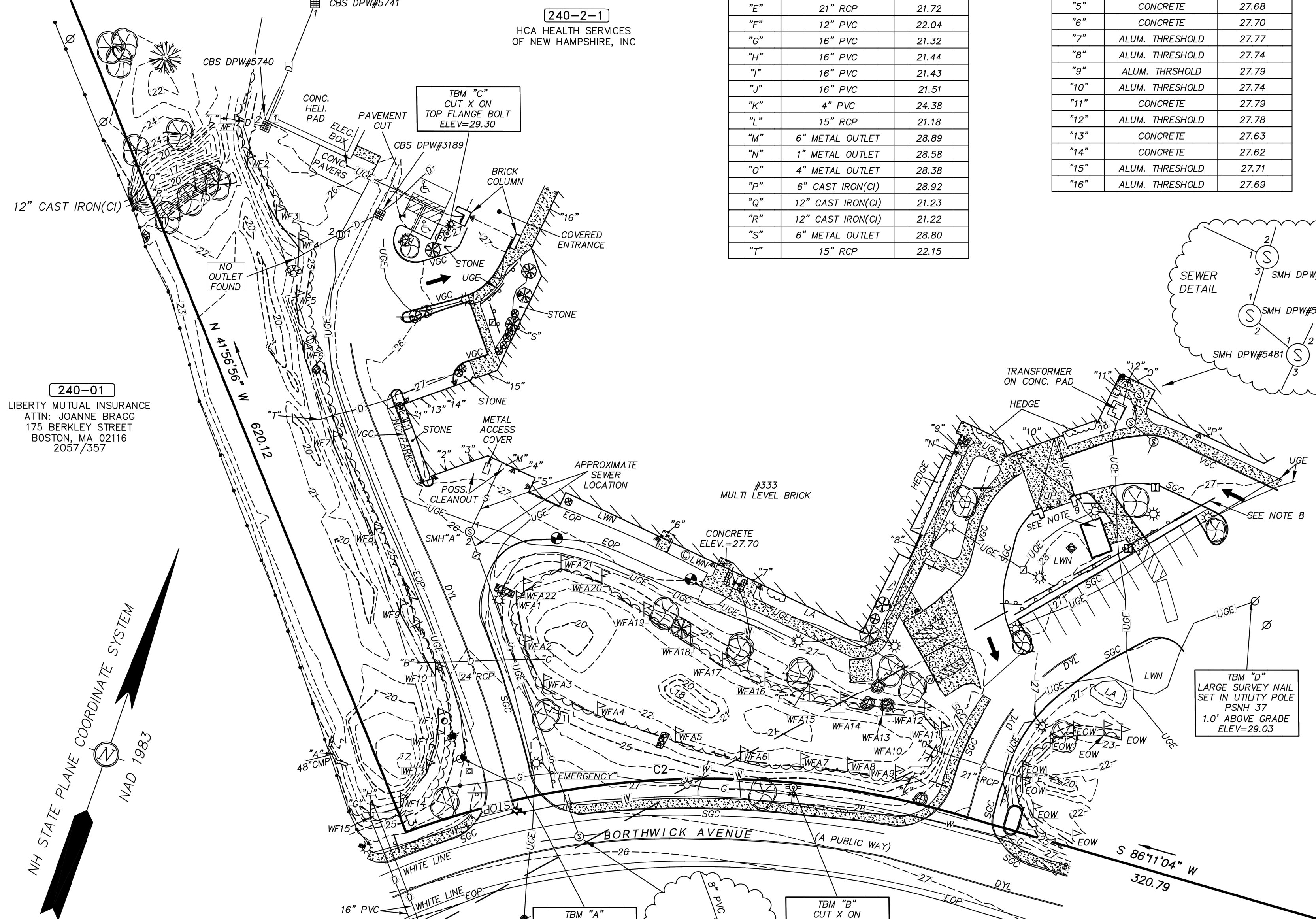
| LOCATION | DESCRIPTION | ELEVATION |
|----------|-----------------|-----------|
| "1" | CONCRETE | 27.68 |
| "2" | CONCRETE | 27.66 |
| "3" | CONCRETE | 27.68 |
| "4" | ALUM. THRESHOLD | 27.70 |
| "5" | CONCRETE | 27.68 |
| "6" | CONCRETE | 27.70 |
| "7" | ALUM. THRESHOLD | 27.77 |
| "8" | ALUM. THRESHOLD | 27.74 |
| "9" | ALUM. THRESHOLD | 27.79 |
| "10" | ALUM. THRESHOLD | 27.74 |
| "11" | CONCRETE | 27.79 |
| "12" | ALUM. THRESHOLD | 27.78 |
| "13" | CONCRETE | 27.63 |
| "14" | CONCRETE | 27.62 |
| "15" | ALUM. THRESHOLD | 27.71 |
| "16" | ALUM. THRESHOLD | 27.69 |

LEGEND:

- IRON ROD (AS NOTED)
- △ SURVEY NAIL (AS NOTED)
- CHAIN LINK FENCE
- UTILITY POLE
- ⊗ UTILITY POLE W/TRANSFORMER
- GUY
- ☆ LIGHT POLE
- ◀ DIRECTED WALL LIGHT
- OHW- OVERHEAD WIRES
- OHE- OVERHEAD ELECTRIC
- OHC- OVERHEAD COMMUNICATION WIRES
- UGC- UNDERGROUND COMMUNICATIONS
- UGE- UNDERGROUND ELECTRIC
- RCRD ROCKINGHAM COUNTY REGISTRY OF DEEDS
- 240-02-01 TAX SHEET / LOT NO.
- EOP EDGE OF PAVEMENT
- LA LANDSCAPED AREA
- RWS STONE RETAINING WALL
- VGC VERTICAL FACED GRANITE CURB
- SGC SLOPED FACED GRANITE CURB
- PSNH PUBLIC SERVICE CO. OF NH
- ♿ HANDICAP SPACE
- ☑ CATCH BASIN
- ⊙ DRAIN MANHOLE
- ⊙ SEWER MANHOLE
- ⊙ BOLLARD
- SIGN
- DOUBLE POST SIGN
- ELECTRICAL CONDUIT
- ELECTRICAL PANEL
- ELECTRICAL BOX
- ELECTRIC METER
- GAS VALVE
- w WATER LINE
- s SEWER LINE
- d DRAIN LINE
- c GAS LINE
- BRUSH LINE
- ☀ CONIFEROUS TREE
- ☀ DECIDUOUS TREE
- TREE LINE
- ☀ CONIFEROUS SHRUB
- ☀ DECIDUOUS SHRUB
- TREE STUMP
- ⊙ MONITORING WELL
- WATER GATE VALVE
- WATER SHUT OFF VALVE
- ⊙ WATER METER PIT
- HYDRANT
- FIRE CONNECTION
- POST INDICATOR VALVE
- RIP RAP
- CEMENT CONCRETE PAD
- BORING
- CABLE TV VAULT
- DYL DOUBLE YELLOW LINE
- STONE RETAINING WALL

240-01
LIBERTY MUTUAL INSURANCE
ATTN: JOANNE BRAGG
175 BERKLEY STREET
BOSTON, MA 02116
2057/357

240-2-1
HCA HEALTH SERVICES OF NEW HAMPSHIRE, INC



NOTES:

- OWNER OF RECORD.....HCA HEALTH SERVICES OF NH., D/B/A PRH 32902
C/O DUCHARME MCMILLEN & ASSOCIATES
ADDRESS.....PO BOX 80610, INDIANAPOLIS, IN 46280
DEED REFERENCE.....2784/1340
TAX SHEET / LOT.....240-02-01
PARCEL AREA.....846,664 S.F 19.44 ACRES
- ZONED:.....OFFICE/RESEARCH (OR) FRONT YARD SETBACK.....50'
MINIMUM LOT AREA...3 ACRES SIDE YARD SETBACK.....75'
FRONTAGE.....300' REAR YARD SETBACK.....50'
- THE RELATIVE ERROR OF CLOSURE WAS LESS THAN 1 FOOT IN 15,000 FEET
- THE LOCATION OF ALL UNDERGROUND UTILITIES SHOWN HEREON ARE APPROXIMATE AND ARE BASED UPON THE FIELD LOCATION OF ALL VISIBLE STRUCTURES (IE CATCH BASINS, MANHOLES, WATER GATES ETC.) AND INFORMATION COMPILED FROM PLANS PROVIDED BY UTILITY COMPANIES AND GOVERNMENT AGENCIES. ALL CONTRACTORS SHOULD NOTIFY, IN WRITING, SAID AGENCIES PRIOR TO ANY EXCAVATION WORK AND CALL DIG-SAFE @ 1-888-DIG-SAFE
- HORIZONTAL DATUM: NAD 1983 ESTABLISHED BY SURVEY GRADE GPS OBSERVATION AND NGS "OPUS" SOLUTION. REFERENCE FRAME: NAD83 (2011)(EPOCH: 2010.0000), US SURVEY FOOT.
VERTICAL DATUM: NAVD 1988. PRIMARY BENCHMARK: CITY OF PORTSMOUTH "ALBA"
- ENGINEER OR CONTRACTOR TO VERIFY SITE BENCHMARKS BY LEVELING BETWEEN 2 BENCHMARKS PRIOR TO THE ESTABLISHMENT OF ANY GRADES OR ELEVATIONS. DISCREPANCIES ARE TO BE REPORTED TO JAMES VERRA AND ASSOCIATES, INC.
- THE PARCEL SHOWN HEREON LIES WITHIN ZONE X (AREAS OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) AS IDENTIFIED ON FLOOD INSURANCE RATE MAP, ROCKINGHAM COUNTY, NEW HAMPSHIRE, MAP NUMBER 33015C0260E, EFFECTIVE DATE 12/17, 2005 BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY.
- LIMIT OF 300' EVERSOURCE ELECTRIC EASEMENT.
- BRICK GENERATOR ENCLOSURE. TOP OF CONCRETE ELEV.=27.20
- THE DELINEATION OF THE WETLANDS SHOWN HEREON WAS BY BRENDEN WILDEN NEW HAMPSHIRE CERTIFIED WETLAND SCIENTIST #297, GOVE ENVIRONMENTAL SERVICES, 8 CONTINENTAL DRIVE, UNIT H, EXETER, NH 03833.
- THE SUBSURFACE UTILITIES SHOWN HEREON WERE IDENTIFIED BY WADE HANSEN GROUND PENETRATING RADAR SYSTEMS, INC., 5217 MONROE STREET, SUITE 100, TOLEDO, OHIO 43623.
- AN EXISTING UNTIL GAS LINE SOUTHWESTERLY OF THE HOSPITAL IN THE VICINITY OF THE LIBERTY MUTUAL PARCEL & A 6" CLDI WATER LINE IN THE SAME AREA WERE NOT FIELD LOCATED BY GROUND PENETRATING RADAR SYSTEMS, INC.

REFERENCE PLANS:

- GAS LINE AS-BUILT EASEMENT AND CONSERVATION PLAN, PREPARED FOR HOSPITAL CORPORATION OF AMERICA, PORTSMOUTH, NH, DATED 10/31/85. RCRD PLAN #D-15830.
- SCHILLER S/S-OCEAN ROAD S/S, 115 KV TRANSMISSION LINE #U181, MILE #4, PLANR-6775-A, DATED 7/10/2009, BY NORTHEAST UTILITIES, NOT RECORDED.
- SUBDIVISION OF LAND, FRANETAL REALTY TRUST COMPANY, OPTIONED TO LIBERTY MUTUAL INSURANCE COMPANY, PORTSMOUTH, NEW HAMPSHIRE, RECORDED TO 2/19/71 RCRD PLAN #2190.

PURSUANT TO RSA 676:18,III AND RSA 672:14

I CERTIFY THAT THIS SURVEY PLAT IS NOT A SUBDIVISION PURSUANT TO THIS TITLE AND THAT THE LINES OF STREETS AND WAYS SHOWN ARE THOSE OF PUBLIC OR PRIVATE STREETS OR WAYS ALREADY ESTABLISHED AND THAT NO NEW WAYS ARE SHOWN.

James Verra
JAMES VERRA
11-19-2019
DATE



| REV. NO. | DATE | DESCRIPTION | FOR REVIEW & COMMENT | APPR'D |
|----------|------------|-------------|----------------------|--------|
| 0 | 11-08-2019 | | | JV |

LIMITED EXISTING CONDITIONS PLAN
333 BORTHWICK AVENUE
PORTSMOUTH, NEW HAMPSHIRE
ASSESSOR'S PARCEL #240-002-001

for
HCA HEALTH SERVICES OF NEW HAMPSHIRE

JAMES VERRA and ASSOCIATES, INC.
101 SHATTUCK WAY
SUITE 8
NEWINGTON, N.H., 03801-7876
603-436-3557

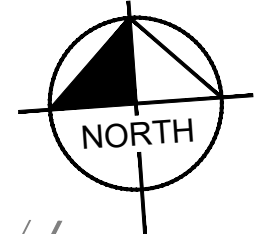
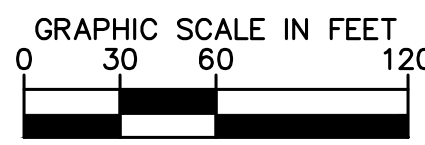
DATE: 11-19-2019
JOB NO: 23834
SCALE: 1" = 40'
DWG NAME: 23834
PLAN NO: 23834
SHEET: 1 of 1

REVISIONS

| | |
|--------------------------|------------|
| DATE: | 05/05/2022 |
| KIMLEY-HORN PROJECT NO.: | |

Kimley-Horn
404 WYMAN STREET, SUITE 385 WALTHAM, MA 02451
MAIN/781.328.0676 | WWW.KIMLEY-HORN.COM
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PORTSMOUTH REGIONAL HOSPITAL
RADIATION ONCOLOGY ADDITION
PORTSMOUTH, NEW HAMPSHIRE



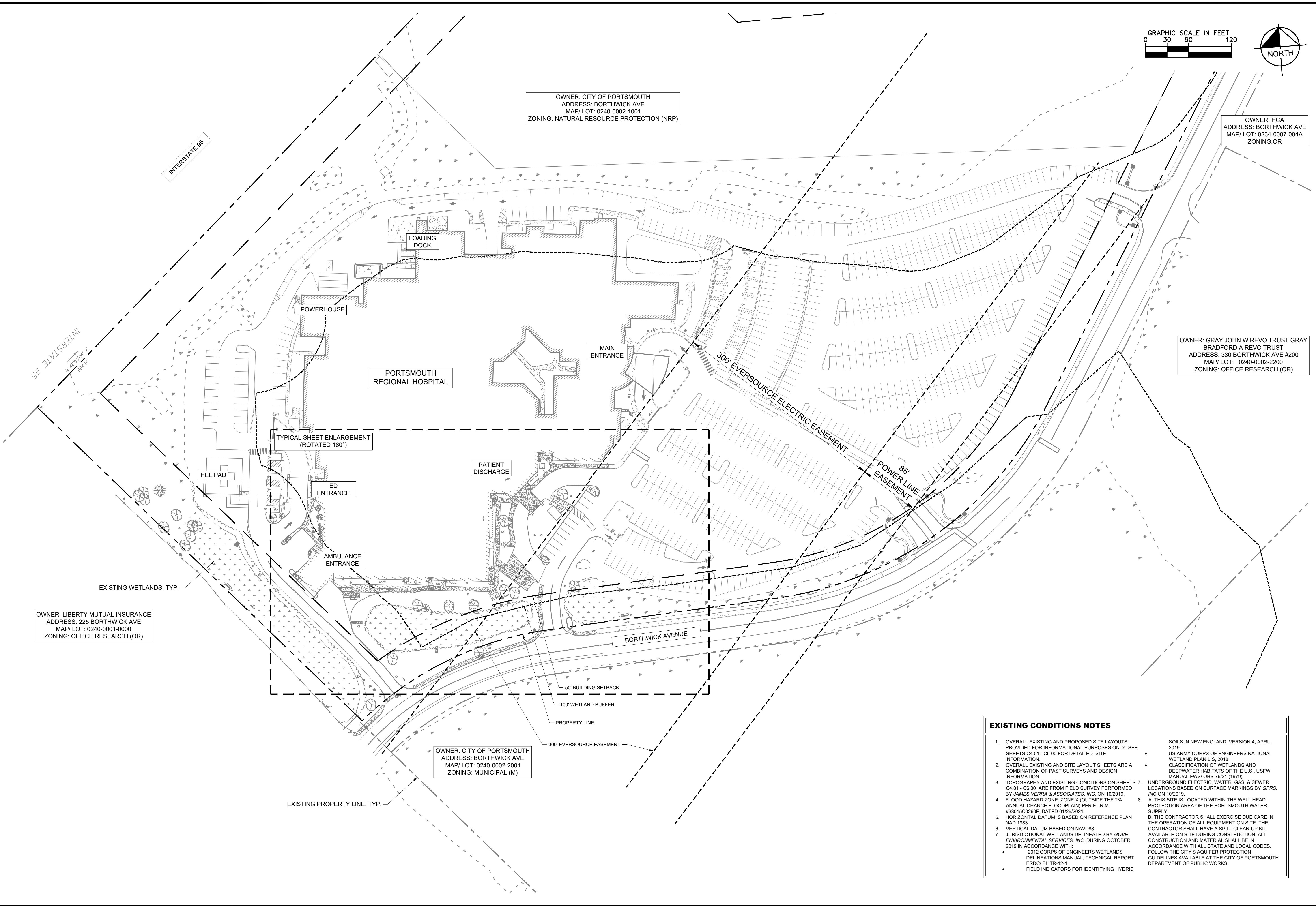
OWNER: CITY OF PORTSMOUTH
 ADDRESS: BORTHWICK AVE
 MAP/ LOT: 0240-0002-1001
 ZONING: NATURAL RESOURCE PROTECTION (NRP)

OWNER: HCA
 ADDRESS: BORTHWICK AVE
 MAP/ LOT: 0234-0007-004A
 ZONING: OR

OWNER: GRAY JOHN W REVO TRUST GRAY
 BRADFORD A REVO TRUST
 ADDRESS: 330 BORTHWICK AVE #200
 MAP/ LOT: 0240-0002-2200
 ZONING: OFFICE RESEARCH (OR)

OWNER: LIBERTY MUTUAL INSURANCE
 ADDRESS: 225 BORTHWICK AVE
 MAP/ LOT: 0240-0001-0000
 ZONING: OFFICE RESEARCH (OR)

OWNER: CITY OF PORTSMOUTH
 ADDRESS: BORTHWICK AVE
 MAP/ LOT: 0240-0002-2001
 ZONING: MUNICIPAL (M)



| EXISTING CONDITIONS NOTES | |
|---|--|
| 1. OVERALL EXISTING AND PROPOSED SITE LAYOUTS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. SEE SHEETS C4.01 - C6.00 FOR DETAILED SITE INFORMATION. | SOILS IN NEW ENGLAND, VERSION 4, APRIL 2019. |
| 2. OVERALL EXISTING AND SITE LAYOUT SHEETS ARE A COMBINATION OF PAST SURVEYS AND DESIGN INFORMATION. | • US ARMY CORPS OF ENGINEERS NATIONAL WETLAND PLAN LIS, 2018. |
| 3. TOPOGRAPHY AND EXISTING CONDITIONS ON SHEETS C4.01 - C6.00 ARE FROM FIELD SURVEY PERFORMED BY JAMES VERRA & ASSOCIATES, INC. ON 10/2019. | • CLASSIFICATION OF WETLANDS AND DEEPWATER HABITATS OF THE U.S. USFW MANUAL FWS/ OES-7931 (1979). |
| 4. FLOOD HAZARD ZONE: ZONE X (OUTSIDE THE 2% ANNUAL CHANCE FLOODPLAIN) PER F.I.R.M. #33015C0260F, DATED 01/29/2021. | 7. UNDERGROUND ELECTRIC, WATER, GAS, & SEWER LOCATIONS BASED ON SURFACE MARKINGS BY GPRS, INC ON 10/2019. |
| 5. HORIZONTAL DATUM IS BASED ON REFERENCE PLAN NAD 1983. | 8. A. THIS SITE IS LOCATED WITHIN THE WELL HEAD PROTECTION AREA OF THE PORTSMOUTH WATER SUPPLY. |
| 6. VERTICAL DATUM BASED ON NAVD88. | B. THE CONTRACTOR SHALL EXERCISE DUE CARE IN THE OPERATION OF ALL EQUIPMENT ON SITE. THE CONTRACTOR SHALL HAVE A SPILL CLEANUP KIT AVAILABLE ON SITE DURING CONSTRUCTION. ALL CONSTRUCTION AND MATERIAL SHALL BE IN ACCORDANCE WITH ALL STATE AND LOCAL CODES. |
| 7. JURISDICTIONAL WETLANDS DELINEATED BY GOVE ENVIRONMENTAL SERVICES, INC. DURING OCTOBER 2019 IN ACCORDANCE WITH: | FOLLOW THE CITY'S AQUIFER PROTECTION GUIDELINES AVAILABLE AT THE CITY OF PORTSMOUTH DEPARTMENT OF PUBLIC WORKS. |
| • 2012 CORPS OF ENGINEERS WETLANDS DELINEATIONS MANUAL, TECHNICAL REPORT ERDC/ EL TR-12-1. | |
| • FIELD INDICATORS FOR IDENTIFYING HYDRIC | |

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PORTSMOUTH REGIONAL HOSPITAL
RADIATION ONCOLOGY ADDITION
 PORTSMOUTH, NEW HAMPSHIRE

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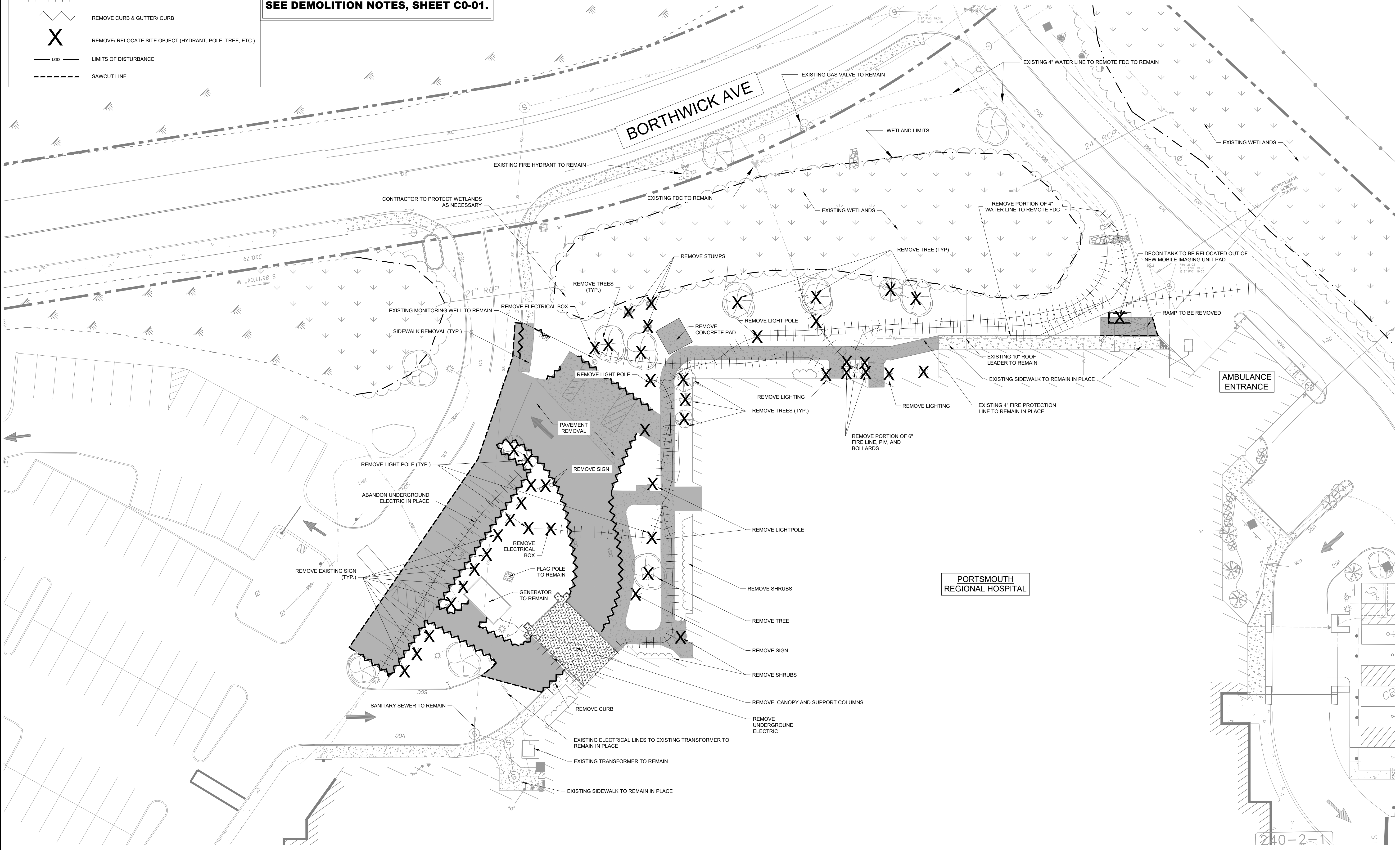
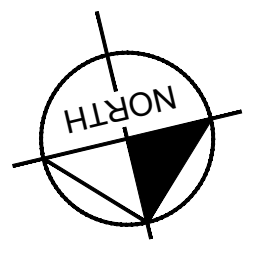
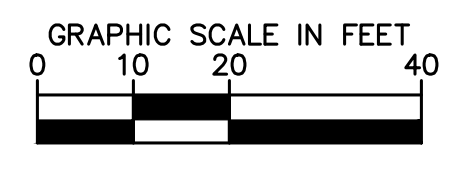
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 DATE: 05/05/2022
 KIMLEY-HORN PROJECT NO. 118252004

| DEMOLITION LEGEND | |
|-------------------|--|
| | REMOVE CONCRETE/ ASPHALT |
| | REMOVE CANOPY |
| | REMOVE UNDERGROUND UTILITY / STORM |
| | REMOVE CURB & GUTTER/ CURB |
| | REMOVE/ RELOCATE SITE OBJECT (HYDRANT, POLE, TREE, ETC.) |
| | LIMITS OF DISTURBANCE |
| | SAWCUT LINE |

EXISTING UTILITIES NOTE

CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES AND NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES AND/OR CONFLICTS WITH EXISTING OR PROPOSED UTILITIES PRIOR TO PROCEEDING.

SEE DEMOLITION NOTES, SHEET C0-01.



Kimley»Horn

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 DATE: 05/05/2022
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SITE DEMOLITION PLAN

C2.00

EROSION CONTROL NOTES

- CONTRACTOR SHALL COORDINATE WITH CITY OF PORTSMOUTH GROWTH MANAGEMENT AND THE COUNTY'S ENVIRONMENTAL INSPECTOR.
- ADDITIONAL SEDIMENT AND EROSION CONTROL MEASURES MAY BE REQUIRED, DURING ANY PHASE OF DEVELOPMENT, AT THE DISCRETION OF THE CITY OF PORTSMOUTH'S ENVIRONMENTAL INSPECTOR.
- THE CONTRACTOR SHALL ENSURE THAT A FOREMAN OR SUPERVISOR WHO HAS BEEN CERTIFIED UNDER THE NEW HAMPSHIRE STORMWATER, EROSION AND SEDIMENTATION CONTROL INSPECTOR TRAINING PROGRAM IS AVAILABLE IN PERSON OR BY PHONE AT ALL TIMES DURING CONSTRUCTION ACTIVITIES. INSPECTOR TO BE DESIGNATED AND AVAILABLE AT THE PRE-CONSTRUCTION MEETING.
- SILT FENCE SHOWN ON THESE PLANS SHALL BE INSTALLED GENERALLY IN THE LOCATIONS INDICATED. ADJUSTED FOR FIELD CONSTRAINTS. ALL PROPOSED SILT FENCE LOCATED WITHIN THE CRITICAL PROTECTION ZONE OF A TREE SHALL BE OF A NON-TRENCHED VARIETY, UNLESS ARBORICULTURAL MITIGATION STATES OTHERWISE.
- CONTRACTOR SHALL INSPECT AND REPAIR ALL BMP's AT LEAST ONCE A WEEK, AND AFTER EVERY SIGNIFICANT RAIN EVENT (> 1/2" OF RAINFALL) A LOG OF SUCH INSPECTIONS SHALL BE MAINTAINED AT THE SITE.
- ANY BMP IN NEED OF REPAIR OR REINSTALLATION SHALL BE CORRECTED BY THE CONTRACTOR WITHIN 24 HOURS OF IDENTIFICATION OF THE NEED FOR SUCH CORRECTION.
- ADDITIONAL BMP MEASURES MAY BE NECESSARY TO ENSURE THAT TURBID WATER IS NOT DISCHARGED FROM THE CONSTRUCTION SITE. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING COMPLIANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN, THE N.P.D.E.S. PERMIT AND THE CONDITIONS OF THE APPLICABLE ENVIRONMENTAL RESOURCE PERMIT.
- ALL DISTURBED AREAS TO BE LEFT IDLE LONGER THAN 14 DAYS MUST BE STABILIZED WITH QUICK GROW GRASS SEED AND MULCH.
- NO TRENCHING OR EXCAVATION SHALL BE ALLOWED WITHIN THE CPZ OF PROTECTED TREES, EXCEPT WHERE DEBITS HAVE BEEN NOTED ON THE TREE REMOVAL PLANS OR WHERE TREES ARE TO BE IMPACTED/MITIGATED PER THE TREE MITIGATION PLANS.
- STREET SWEEPING WILL BE REQUIRED AS NECESSARY.
- IMPROVEMENTS SHOWN FOR REFERENCE ONLY.
- COORDINATE DISPOSAL OF EXCAVATED MATERIAL WITH OWNER.

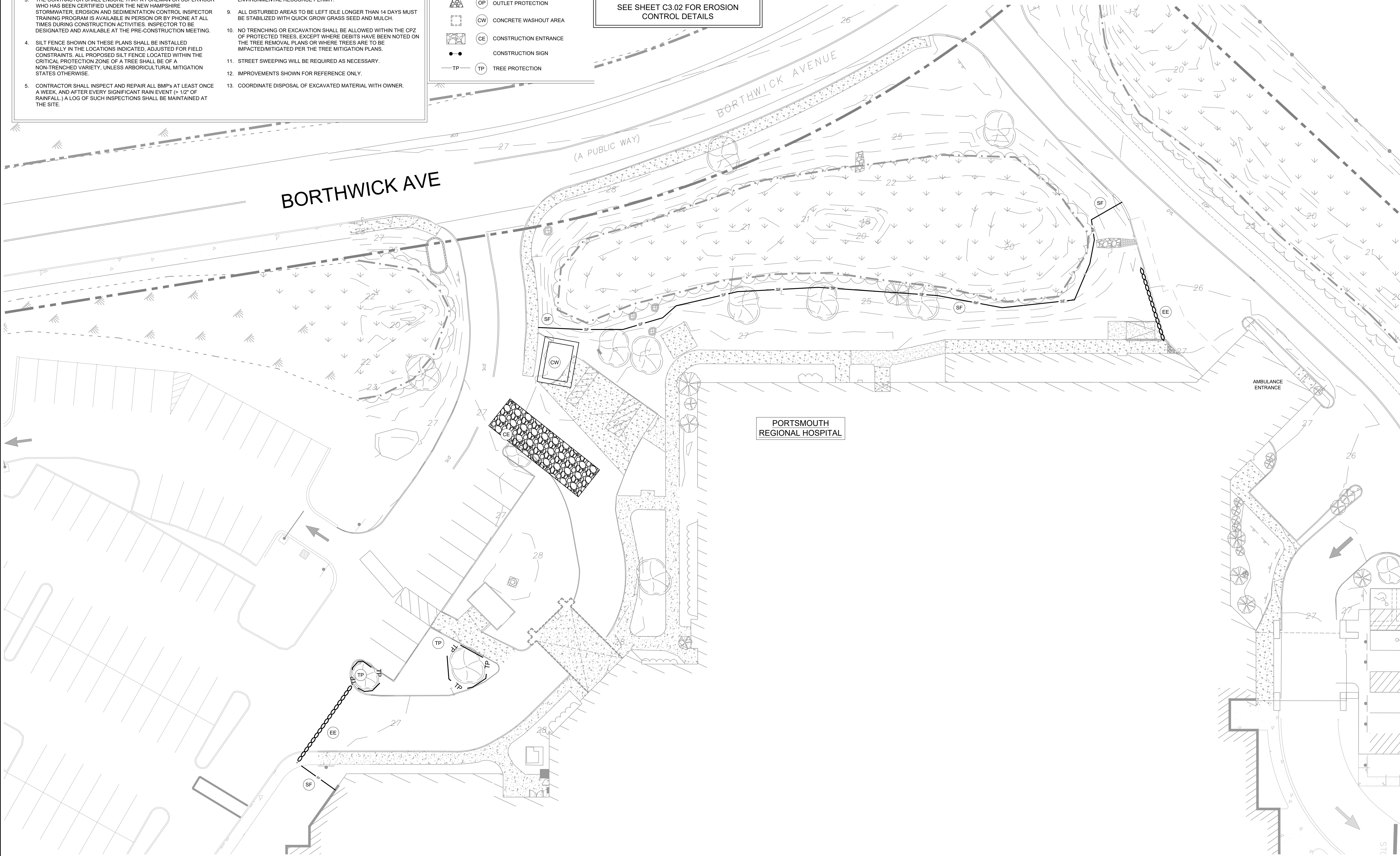
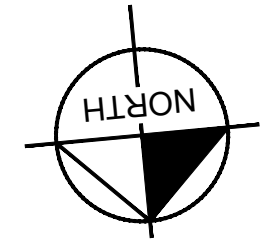
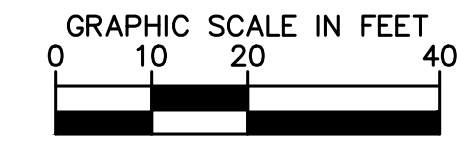
ADA COMPLIANCE

- IP INLET PROTECTION
- SF SILT FENCE
- EE EROSION EELS
- OP OUTLET PROTECTION
- CW CONCRETE WASHOUT AREA
- CE CONSTRUCTION ENTRANCE
- CS CONSTRUCTION SIGN
- TP TREE PROTECTION

PROPOSED GROUND COVER LEGEND

- CONSERVATION SEED MIX
- FESCUE/ BLUEGRASS SEED MIX

SEE SHEET C3.02 FOR EROSION CONTROL DETAILS



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 PORTSMOUTH, NEW HAMPSHIRE

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 KIMLEY-HORN PROJECT NO. 118252004

EROSION CONTROL PLAN - PHASE 1

C3.00

EROSION CONTROL NOTES

- CONTRACTOR SHALL COORDINATE WITH CITY OF PORTSMOUTH GROWTH MANAGEMENT AND THE COUNTY'S ENVIRONMENTAL INSPECTOR.
- ADDITIONAL SEDIMENT AND EROSION CONTROL MEASURES MAY BE REQUIRED, DURING ANY PHASE OF DEVELOPMENT, AT THE DISCRETION OF THE CITY OF PORTSMOUTH'S ENVIRONMENTAL INSPECTOR.
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- SILT FENCE SHOWN ON THESE PLANS SHALL BE INSTALLED GENERALLY IN THE LOCATIONS INDICATED. ADJUSTED FOR FIELD CONSTRAINTS. ALL PROPOSED SILT FENCE LOCATED WITHIN THE CRITICAL PROTECTION ZONE OF A TREE SHALL BE OF A NON-TRENCHED VARIETY, UNLESS ARBORICULTURAL MITIGATION STATES OTHERWISE.
- CONTRACTOR SHALL INSPECT AND REPAIR ALL BMP's AT LEAST ONCE A WEEK, AND AFTER EVERY SIGNIFICANT RAIN EVENT (> 1/2" OF RAINFALL) A LOG OF SUCH INSPECTIONS SHALL BE MAINTAINED AT THE SITE.
- ANY BMP IN NEED OF REPAIR OR REINSTALLATION SHALL BE CORRECTED BY THE CONTRACTOR WITHIN 24 HOURS OF IDENTIFICATION OF THE NEED FOR SUCH CORRECTION.
- ADDITIONAL BMP MEASURES MAY BE NECESSARY TO ENSURE THAT TURBID WATER IS NOT DISCHARGED FROM THE CONSTRUCTION SITE. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING COMPLIANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN, THE N.P.D.E.S. PERMIT AND THE CONDITIONS OF THE APPLICABLE ENVIRONMENTAL RESOURCE PERMIT.
- ALL DISTURBED AREAS TO BE LEFT IDLE LONGER THAN 14 DAYS MUST BE STABILIZED WITH QUICK GROW GRASS SEED AND MULCH.
- NO TRENCHING OR EXCAVATION SHALL BE ALLOWED WITHIN THE CPZ OF PROTECTED TREES, EXCEPT WHERE DEBITS HAVE BEEN NOTED ON THE TREE REMOVAL PLANS OR WHERE TREES ARE TO BE IMPACTED/MITIGATED PER THE TREE MITIGATION PLANS.
- STREET SWEEPING WILL BE REQUIRED AS NECESSARY.
- IMPROVEMENTS SHOWN FOR REFERENCE ONLY.
- COORDINATE DISPOSAL OF EXCAVATED MATERIAL WITH OWNER.

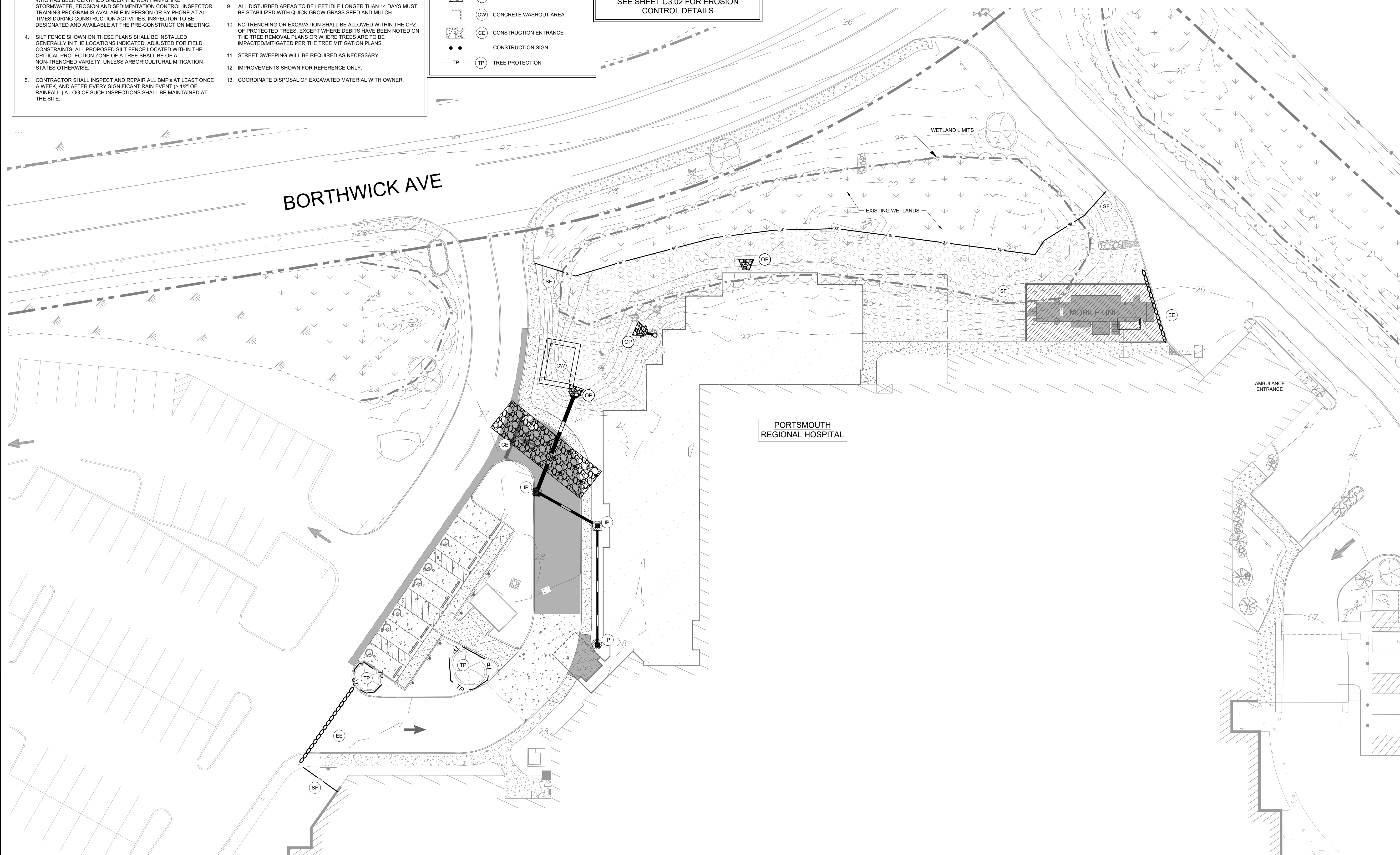
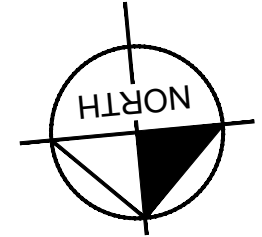
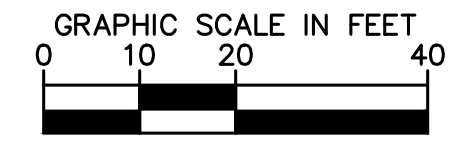
ADA COMPLIANCE

- IP INLET PROTECTION
- SF SILT FENCE
- EE EROSION EELS
- OP OUTLET PROTECTION
- CW CONCRETE WASHOUT AREA
- CE CONSTRUCTION ENTRANCE
- CONSTRUCTION SIGN
- TP TREE PROTECTION

PROPOSED GROUND COVER LEGEND

- CONSERVATION SEED MIX
- FESCUE/ BLUEGRASS SEED MIX

SEE SHEET C3.02 FOR EROSION CONTROL DETAILS

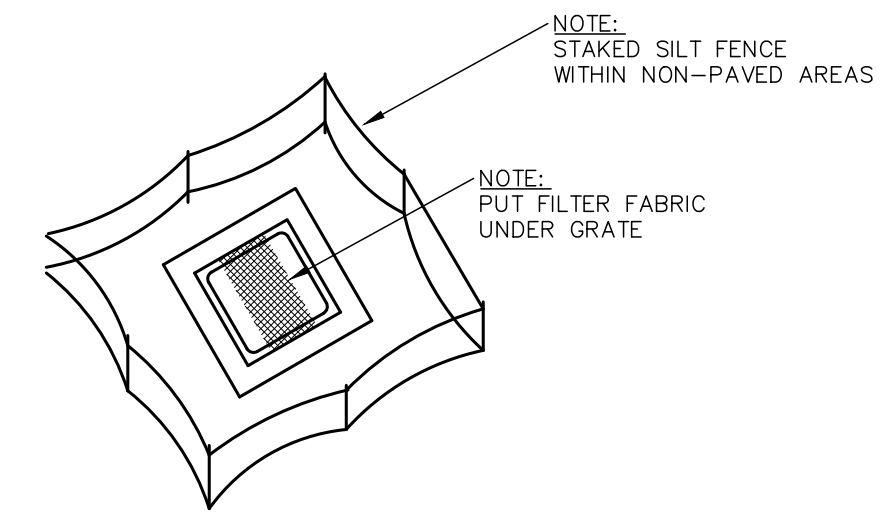
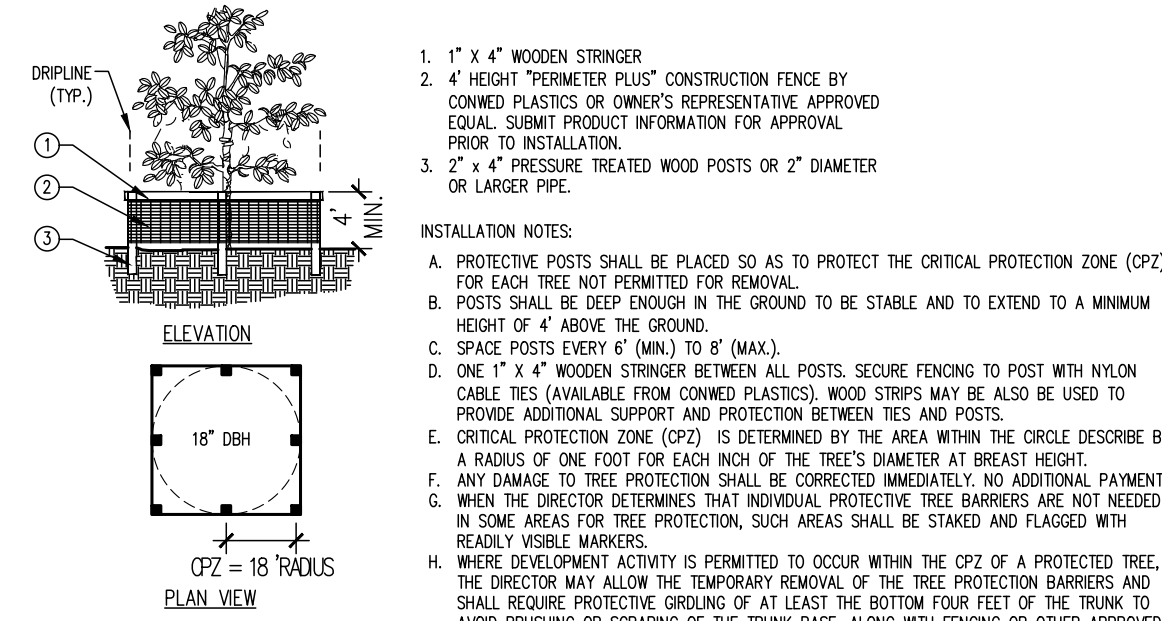
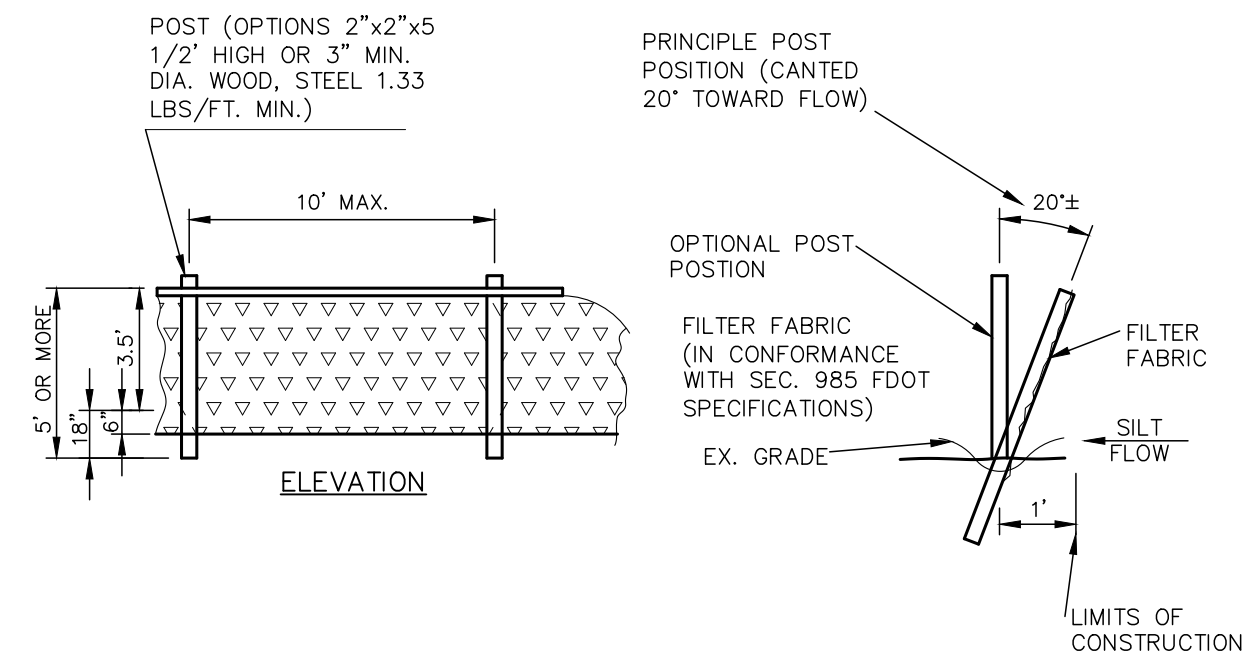
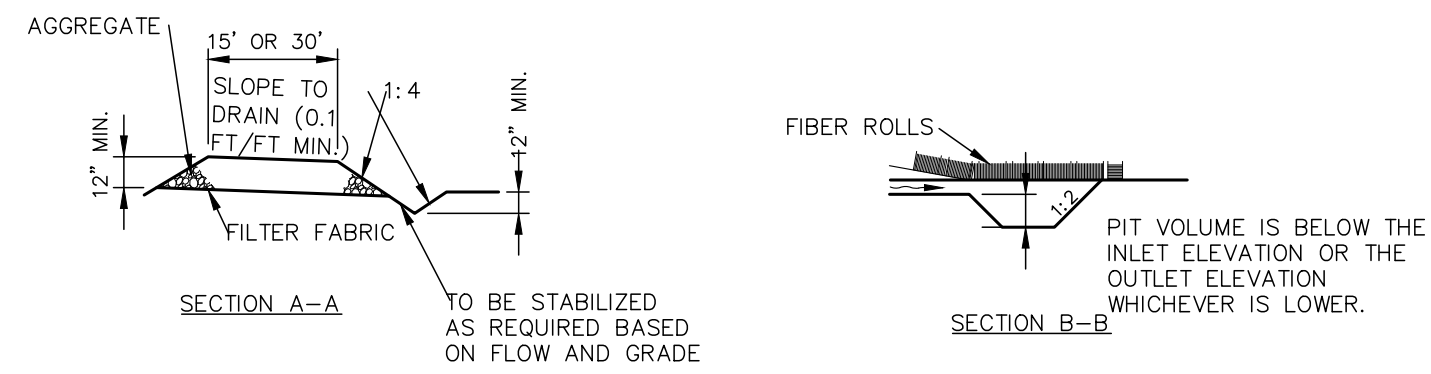


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EROSION CONTROL PLAN - PHASE 2

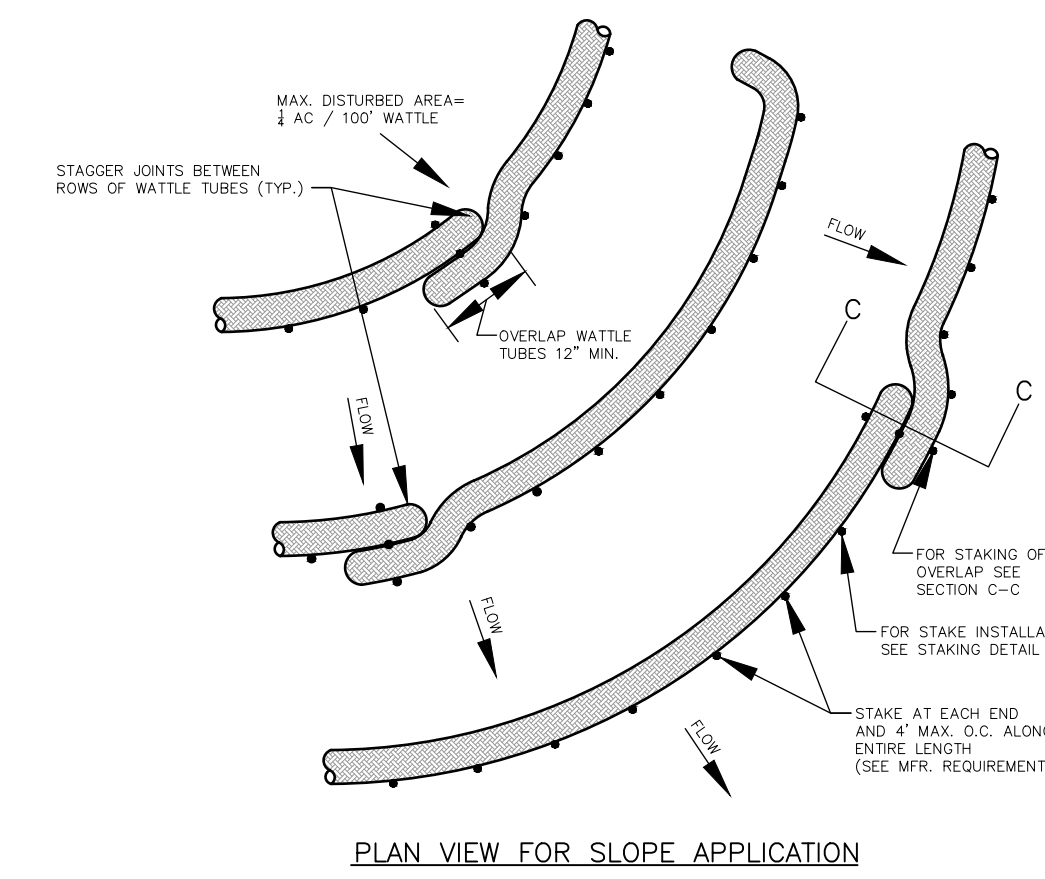
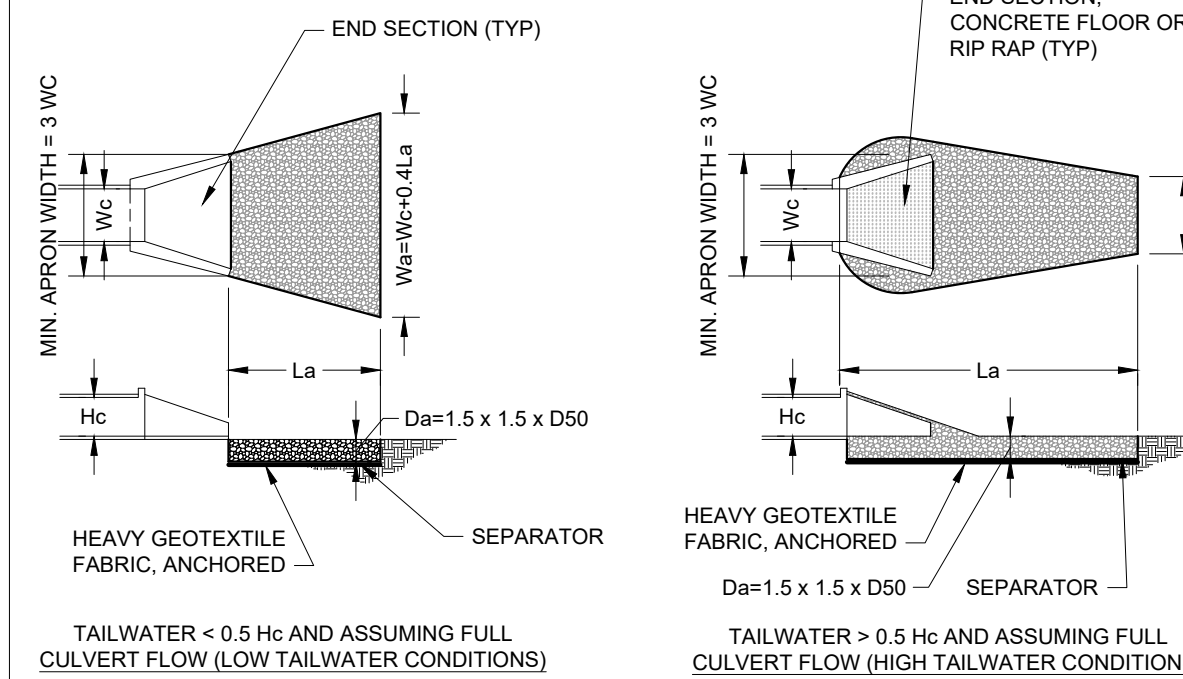
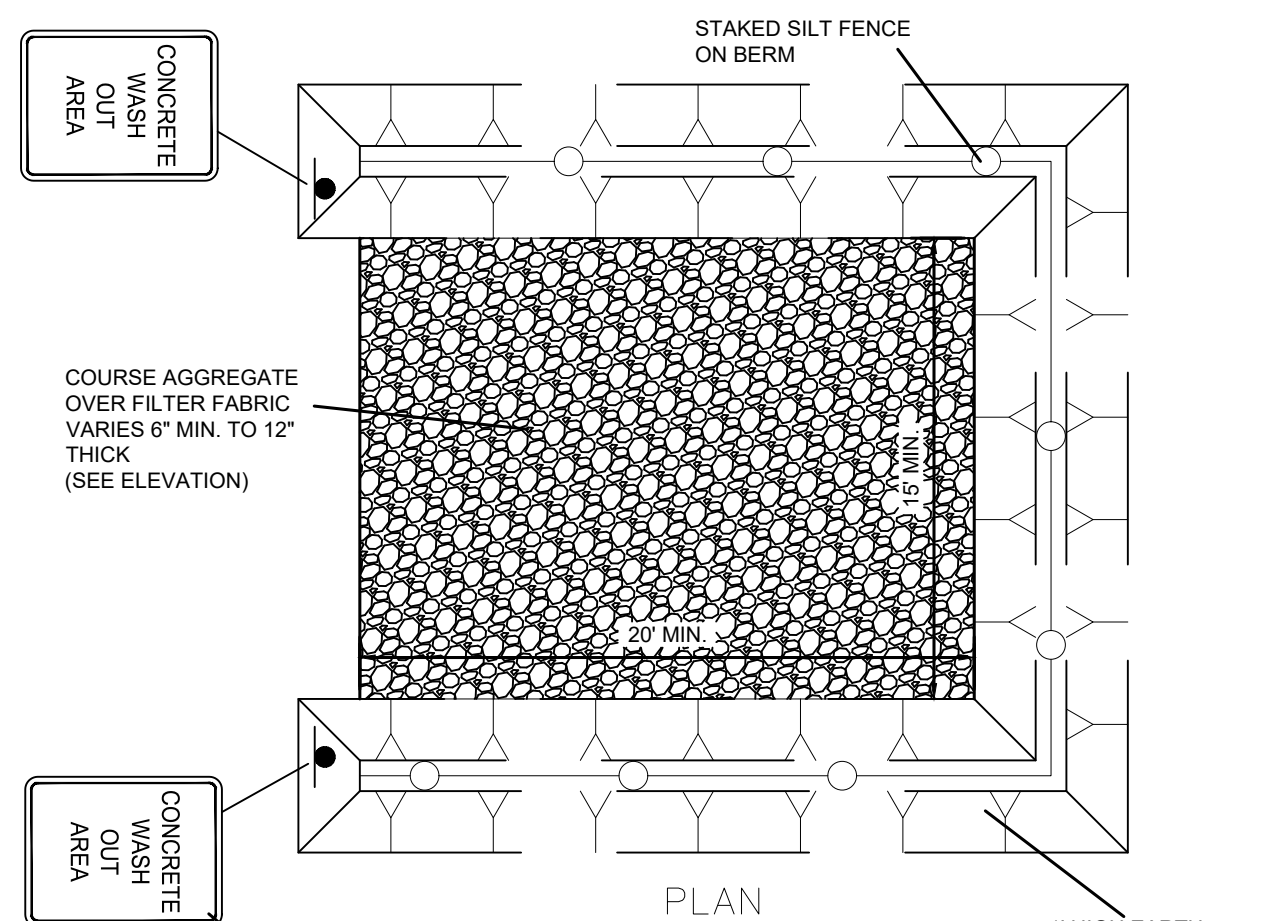
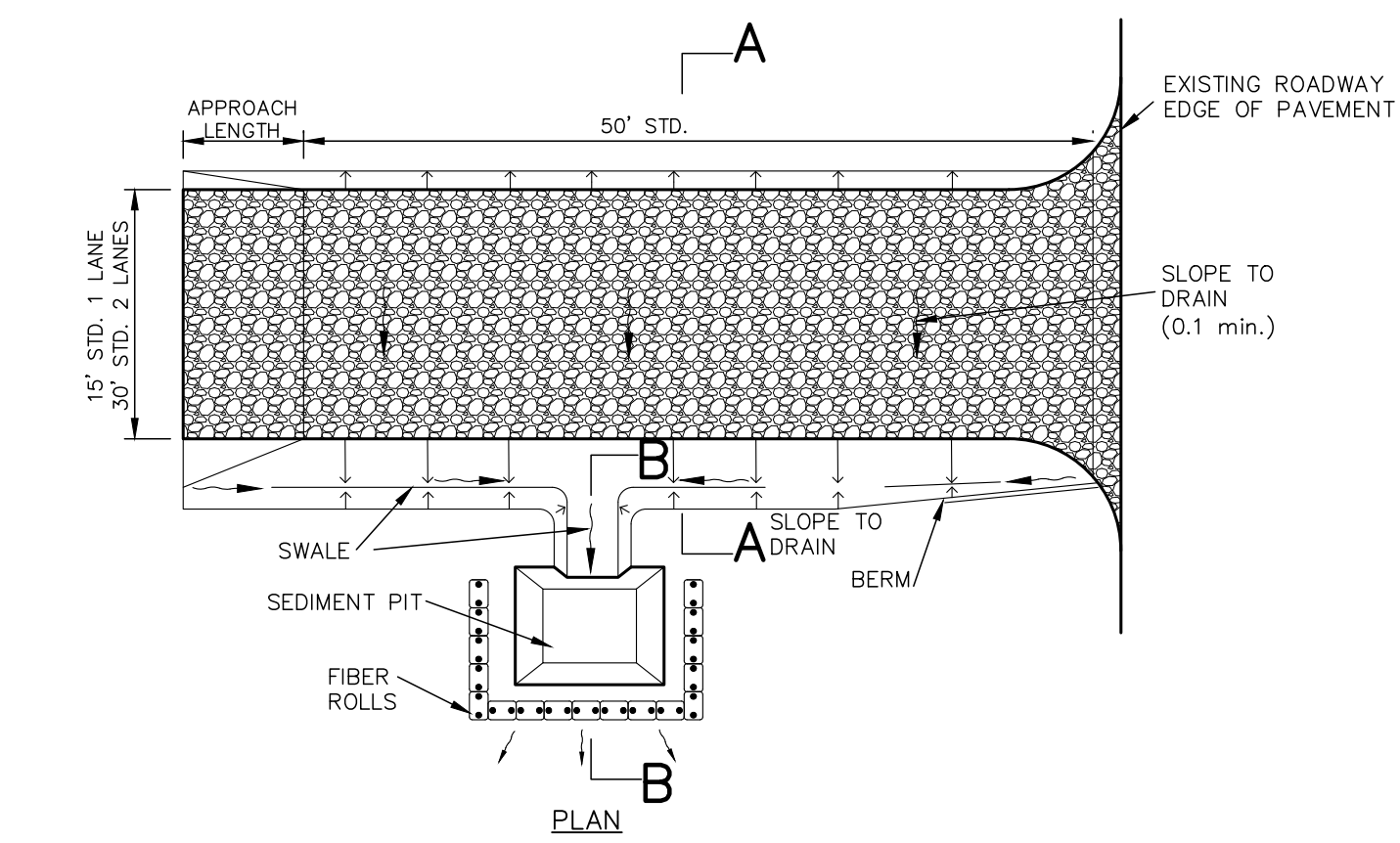
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SF SILT FENCE (SEDIMENT BARRIER)
NOT TO SCALE

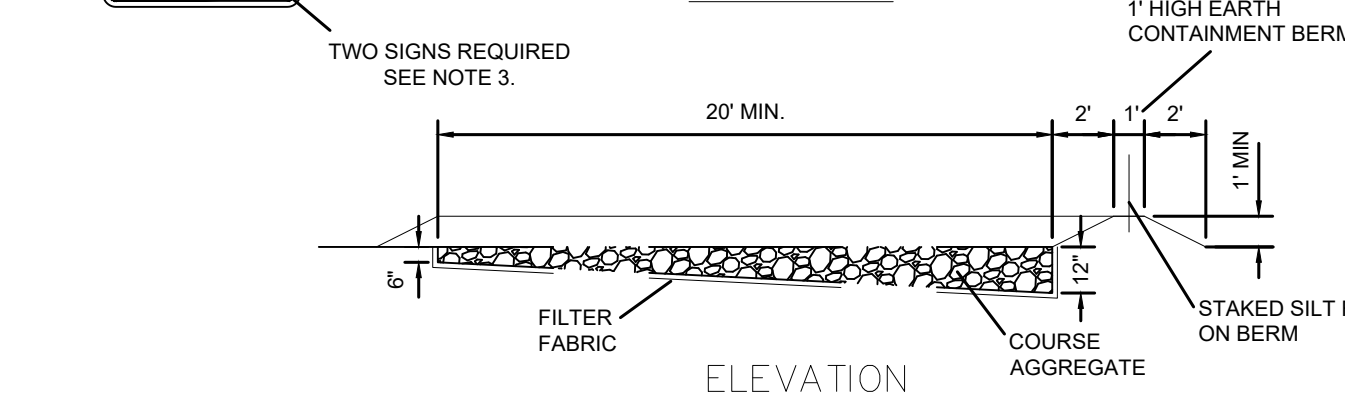
TP TREE PROTECTION
NOT TO SCALE

IP INLET PROTECTION
NOT TO SCALE



NOTES:
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS- OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

CE CONSTRUCTION ENTRANCE (SOIL TRACKING PREVENTION)
NOT TO SCALE



NOTES:
1. ALL MATERIAL SHALL BE REMOVED FROM THE SITE AT THE END OF THE PROJECT.
2. AGGREGATE SHALL BE REPLACED AS DIRECTED BY THE ENGINEER OF RECORD AND/OR THE CITY WHEN EXCESSIVE MATERIALS BUILDUP RENDERS THE WASH OUT AREA NO LONGER FUNCTIONAL.
3. SIGNS SHALL BE 18" X 12" MIN. SIZE WITH 2" BLACK LETTERING ON A WHITE BACKGROUND AND MOUNTED A MINIMUM OF 7 FEET ABOVE GRADE FROM THE LOWEST EDGE OF THE SIGN FACE.

OP OUTLET PROTECTION
NOT TO SCALE

EE EROSION EELS
NOT TO SCALE

CW CONCRETE WASHOUT
NOT TO SCALE

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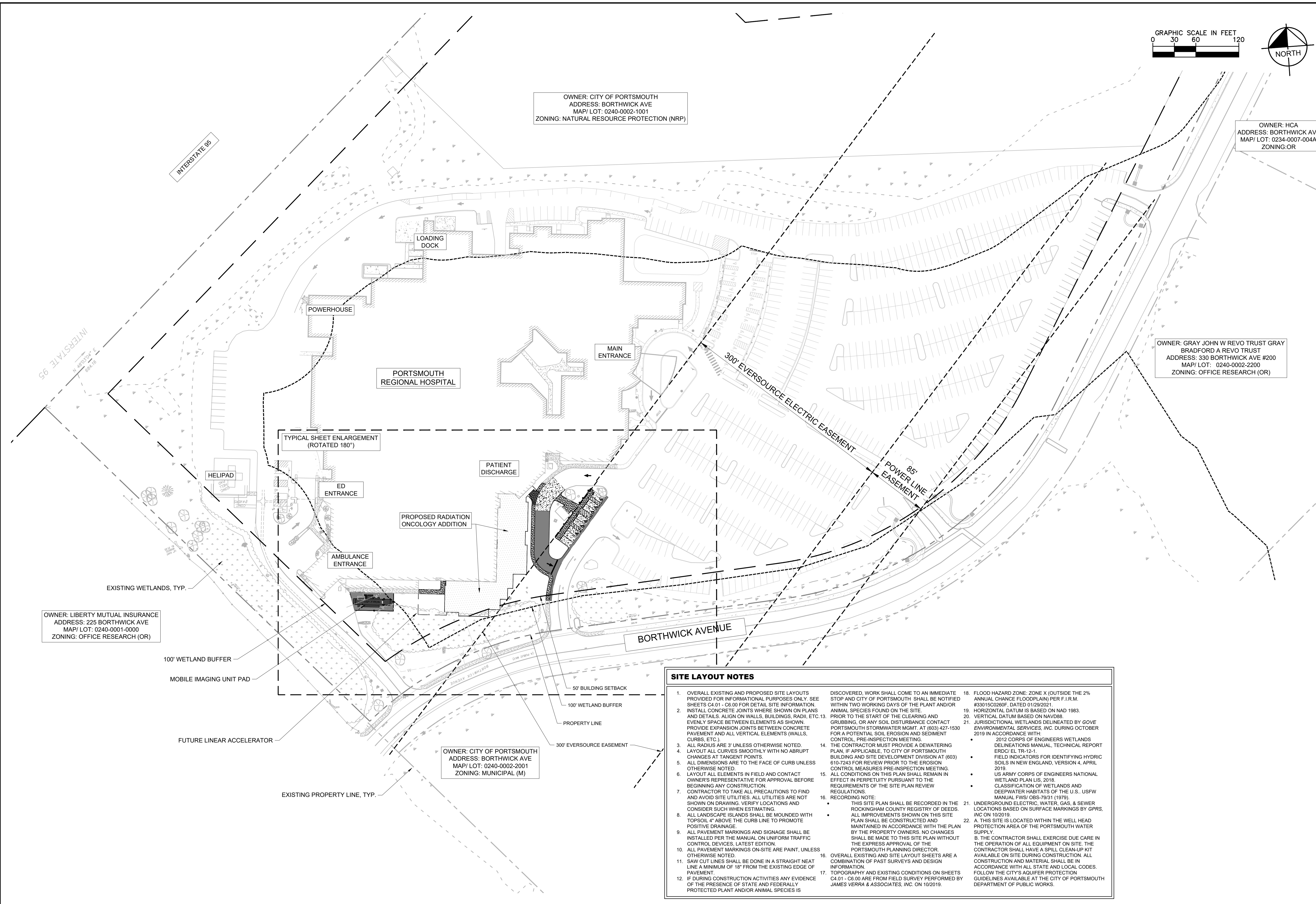
EROSION CONTROL DETAILS

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**SITE LAYOUT -
 OVERALL**

C4.00



OWNER: CITY OF PORTSMOUTH
 ADDRESS: BORTHWICK AVE
 MAP/LOT: 0240-0002-1001
 ZONING: NATURAL RESOURCE PROTECTION (NRP)

OWNER: HCA
 ADDRESS: BORTHWICK AVE
 MAP/LOT: 0234-0007-004A
 ZONING: OR

OWNER: GRAY JOHN W REVO TRUST GRAY
 BRADFORD A REVO TRUST
 ADDRESS: 330 BORTHWICK AVE #200
 MAP/LOT: 0240-0002-2200
 ZONING: OFFICE RESEARCH (OR)

OWNER: LIBERTY MUTUAL INSURANCE
 ADDRESS: 225 BORTHWICK AVE
 MAP/LOT: 0240-0001-0000
 ZONING: OFFICE RESEARCH (OR)

OWNER: CITY OF PORTSMOUTH
 ADDRESS: BORTHWICK AVE
 MAP/LOT: 0240-0002-2001
 ZONING: MUNICIPAL (M)

- SITE LAYOUT NOTES**
- OVERALL EXISTING AND PROPOSED SITE LAYOUTS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. SEE SHEETS C4.01 - C6.00 FOR DETAIL SITE INFORMATION.
 - INSTALL CONCRETE JOINTS WHERE SHOWN ON PLANS AND DETAILS. ALIGN ON WALLS, BUILDINGS, RADI, ETC. 13. EVENLY SPACE BETWEEN ELEMENTS AS SHOWN. PROVIDE EXPANSION JOINTS BETWEEN CONCRETE PAVEMENT AND ALL VERTICAL ELEMENTS (WALLS, CURBS, ETC.).
 - ALL RADIUS ARE 3' UNLESS OTHERWISE NOTED.
 - LAYOUT ALL CURVES SMOOTHLY WITH NO ABRUPT CHANGES AT TANGENT POINTS.
 - ALL DIMENSIONS ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
 - LAYOUT ALL ELEMENTS IN FIELD AND CONTACT OWNER'S REPRESENTATIVE FOR APPROVAL BEFORE BEGINNING ANY CONSTRUCTION.
 - CONTRACTOR TO TAKE ALL PRECAUTIONS TO FIND AND AVOID SITE UTILITIES. ALL UTILITIES ARE NOT SHOWN ON DRAWING. VERIFY LOCATIONS AND CONSIDER SUCH WHEN ESTIMATING.
 - ALL LANDSCAPE ISLANDS SHALL BE MOUNDED WITH TOPSOIL 4" ABOVE THE CURB LINE TO PROMOTE POSITIVE DRAINAGE.
 - ALL PAVEMENT MARKINGS AND SIGNAGE SHALL BE INSTALLED PER THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
 - ALL PAVEMENT MARKINGS ON-SITE ARE PAINT, UNLESS OTHERWISE NOTED.
 - SAW CUT LINES SHALL BE DONE IN A STRAIGHT NEAT LINE A MINIMUM OF 18" FROM THE EXISTING EDGE OF PAVEMENT.
 - IF DURING CONSTRUCTION ACTIVITIES ANY EVIDENCE OF THE PRESENCE OF STATE AND FEDERALLY PROTECTED PLANT AND/OR ANIMAL SPECIES IS DISCOVERED, WORK SHALL COME TO AN IMMEDIATE STOP AND CITY OF PORTSMOUTH SHALL BE NOTIFIED WITHIN TWO WORKING DAYS OF THE PLANT AND/OR ANIMAL SPECIES FOUND ON THE SITE.
 - PRIOR TO THE START OF THE CLEARING AND GRUBBING, OR ANY SOIL DISTURBANCE CONTACT PORTSMOUTH STORMWATER MGMT. AT (603) 427-1530 FOR A POTENTIAL SOIL EROSION AND SEDIMENT CONTROL, PRE-INSPECTION MEETING.
 - THE CONTRACTOR MUST PROVIDE A DEWATERING PLAN, IF APPLICABLE, TO CITY OF PORTSMOUTH BUILDING AND SITE DEVELOPMENT DIVISION AT (603) 610-7243 FOR REVIEW PRIOR TO THE EROSION CONTROL MEASURES PRE-INSPECTION MEETING.
 - ALL CONDITIONS ON THIS PLAN SHALL REMAIN IN EFFECT IN PERPETUITY PURSUANT TO THE REQUIREMENTS OF THE SITE PLAN REVIEW REGULATIONS.
 - RECORDING NOTE:
 THIS SITE PLAN SHALL BE RECORDED IN THE ROCKINGHAM COUNTY REGISTRY OF DEEDS.
 ALL IMPROVEMENTS SHOWN ON THIS SITE PLAN SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE PLAN BY THE PROPERTY OWNERS. NO CHANGES SHALL BE MADE TO THIS SITE PLAN WITHOUT THE EXPRESS APPROVAL OF THE PORTSMOUTH PLANNING DIRECTOR.
 - OVERALL EXISTING AND SITE LAYOUT SHEETS ARE A COMBINATION OF PAST SURVEYS AND DESIGN INFORMATION.
 - TOPOGRAPHY AND EXISTING CONDITIONS ON SHEETS C4.01 - C6.00 ARE FROM FIELD SURVEY PERFORMED BY JAMES VERRA & ASSOCIATES, INC. ON 10/2019.
 - FLOOD HAZARD ZONE: ZONE X (OUTSIDE THE 2% ANNUAL CHANCE FLOODPLAIN) PER F.I.R.M. #330150260F, DATED 01/29/2021.
 - HORIZONTAL DATUM IS BASED ON NAD 1983.
 - VERTICAL DATUM BASED ON NAVD88.
 - JURISDICTIONAL WETLANDS DELINEATED BY GOVE ENVIRONMENTAL SERVICES, INC. DURING OCTOBER 2019 IN ACCORDANCE WITH:
 2012 CORPS OF ENGINEERS WETLANDS DELINEATIONS MANUAL, TECHNICAL REPORT ERDC/EL TR-12-1.
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 US ARMY CORPS OF ENGINEERS NATIONAL WETLAND PLAN LIS, 2018.
 CLASSIFICATION OF WETLANDS AND DEEPWATER HABITATS OF THE U.S. USFW MANUAL FWS/OBS-79/31 (1979).
 - UNDERGROUND ELECTRIC, WATER, GAS, & SEWER LOCATIONS BASED ON SURFACE MARKINGS BY GPRS, IWC ON 10/2019.
 - A. THIS SITE IS LOCATED WITHIN THE WELL HEAD PROTECTION AREA OF THE PORTSMOUTH WATER SUPPLY.
 B. THE CONTRACTOR SHALL EXERCISE DUE CARE IN THE OPERATION OF ALL EQUIPMENT ON SITE. THE CONTRACTOR SHALL HAVE A SPILL CLEAN-UP KIT AVAILABLE ON SITE DURING CONSTRUCTION. ALL CONSTRUCTION AND MATERIAL SHALL BE IN ACCORDANCE WITH ALL STATE AND LOCAL CODES. FOLLOW THE CITY'S AQUIFER PROTECTION GUIDELINES AVAILABLE AT THE CITY OF PORTSMOUTH DEPARTMENT OF PUBLIC WORKS.

| SITE DATA TABLE | | |
|---|--|-------------------|
| OWNER OF RECORD | HCA HEALTH SERVICES OF NH INC D/B/A PRH 32902 | |
| SITE ADDRESS | 333 BORTHWICK AVE PORTSMOUTH, NH 03801 | |
| SITE AREA | ± 20.87 AC | |
| DISTURBANCE LIMITS W/ THIS PROJECT | ± 0.7 AC | |
| TAX MAP & LOT | TAX MAP 240, LOT 2-1 | |
| ZONING | OR - OFFICE RESEARCH | |
| SETBACKS | REQUIRED | PROPOSED |
| FRONT YARD SETBACK | 50'-0" | ±40' |
| REAR YARD SETBACK | 50'-0" | ±157' |
| SIDE YARD SETBACK | 75'-0" | ±71" (EXISTING) |
| MIN. OPEN SPACE ON A LOT | 30% | ±39.0% |
| MAX BUILDING COVERAGE | 30% | ± 20.1% |
| BUILDING DATA | | |
| | EXISTING | PROPOSED ADDITION |
| HOSPITAL BEDS | 233 | 0 |
| HOSPITAL/ MOB FLOOR PLATE | ±173,916 SF | ± 8,700 SF |
| HOSPITAL GROSS AREA | ±427,495 SF | ± 8,870 SF |
| MEDICAL OFFICE BUILDING GROSS AREA (ATTACHED TO HOSPITAL BUILDING) | ±46,665 SF | 0 SF |
| BUILDING HEIGHT | ± 65'-4" | ± 14'-8" |

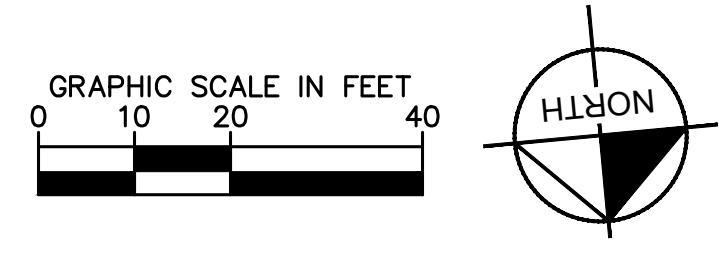
| PAVEMENT LEGEND | | |
|-----------------|------------------------------|-----------------|
| | DESCRIPTION | DET #/ SHT # |
| | SIDEWALK CONCRETE | 1 / C7.00 |
| | ASPHALT PAVEMENT | 2 / C7.00 |
| | CONCRETE PAVEMENT | 3 / C7.00 |
| | MOBILE IMAGING CONCRETE PAD | 4 / C7.00 |
| | SPECIALITY SIDEWALK PAVEMENT | NOTE THIS SHEET |

SPECIALITY SIDEWALK PAVEMENT NOTE

COLORED CONCRETE SURFACE WITH MEDIUM BROOM FINISH, CONSISTING OF SCOFIELD LITHOCHROME COLOR HARDENER, COLOR TO BE SELECTED BY ARCHITECT. SEAL CURED, COLORED SURFACE WITH SCOFIELD SCOFIELD CURESEAL-VOO MATTE FINISH CLEAR SEALANT. PREPARE SURFACES AND APPLY MATERIALS PER MANUFACTURER'S SPECIFICATIONS.

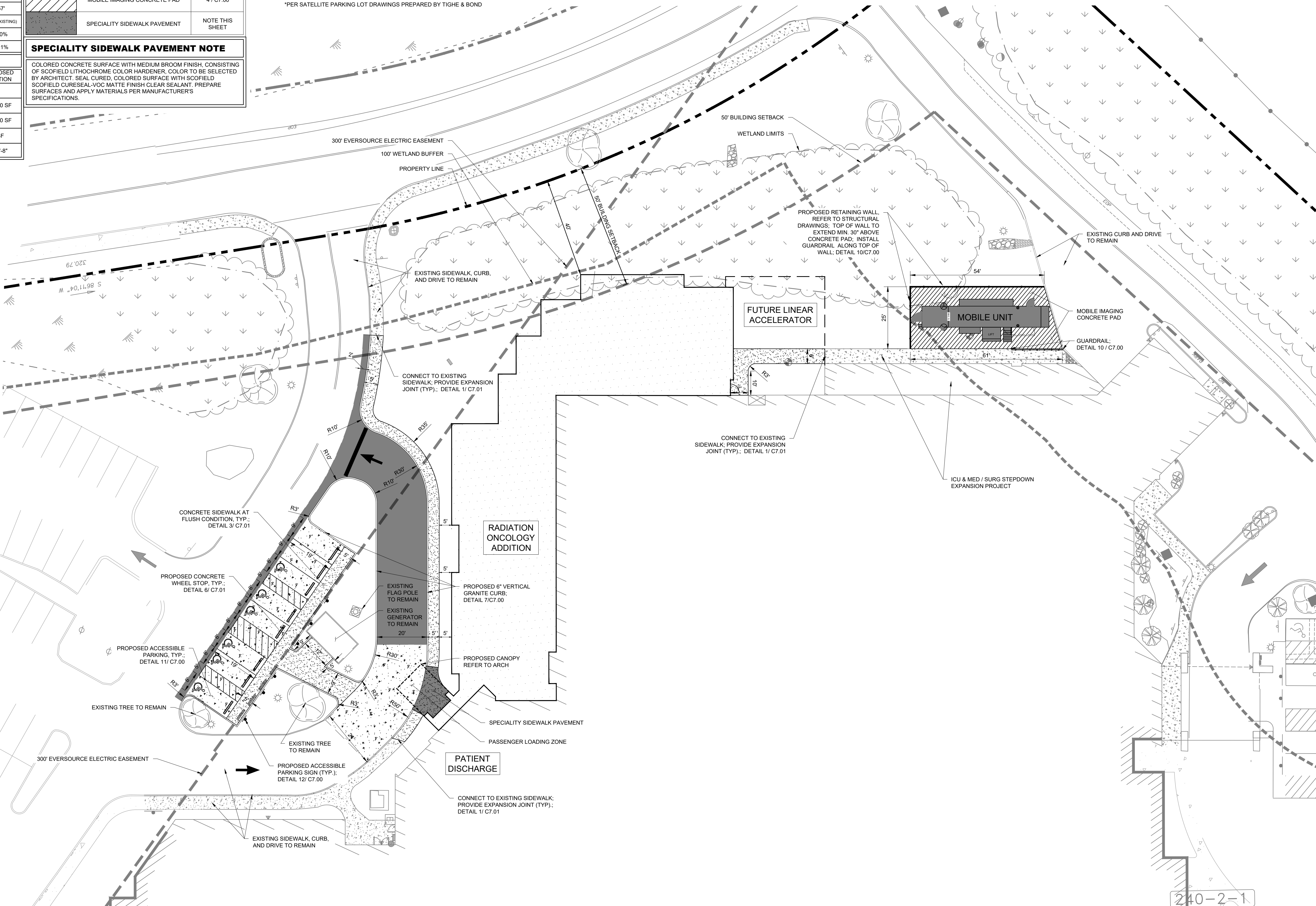
| PARKING SUMMARY | | | | |
|--|----------|------------|----------|------------|
| | EXISTING | DEMOLISHED | PROPOSED | NET RESULT |
| ONSITE STANDARD SPACES | 754 | 11 | 2 | 745 |
| ONSITE ACCESSIBLE (INCLUDING VAN ACCESSIBLE) | 29 | 4 | 6 | 31 |
| OFFSITE STANDARD SPACES* | 0 | 0 | 490 | 490 |
| OFFSITE ACCESSIBLE (INCLUDING VAN ACCESSIBLE)* | 0 | 0 | 11 | 11 |
| TOTAL | | | | 1277 |

*PER SATELLITE PARKING LOT DRAWINGS PREPARED BY TIGHE & BOND



SITE LAYOUT NOTES

- INSTALL CONCRETE JOINTS WHERE SHOWN ON PLANS AND DETAILS. ALIGN ON WALLS, BUILDINGS, RADII, ETC. EVENLY SPACE BETWEEN ELEMENTS AS SHOWN. PROVIDE EXPANSION JOINTS BETWEEN CONCRETE PAVEMENT AND ALL VERTICAL ELEMENTS (WALLS, CURBS, ETC.).
- ALL RADII ARE 3' UNLESS OTHERWISE NOTED.
- LAYOUT ALL CURVES SMOOTHLY WITH NO ABRUPT CHANGES AT TANGENT POINTS.
- ALL DIMENSIONS ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
- LAYOUT ALL ELEMENTS IN FIELD AND CONTACT OWNER'S REPRESENTATIVE FOR APPROVAL BEFORE BEGINNING ANY CONSTRUCTION.
- CONTRACTOR TO TAKE ALL PRECAUTIONS TO FIND AND AVOID SITE UTILITIES. ALL UTILITIES ARE NOT SHOWN ON DRAWING. VERIFY LOCATIONS AND CONSIDER SUCH WHEN ESTIMATING.
- ALL LANDSCAPE ISLANDS SHALL BE MOUNDED WITH TOPSOIL 4" ABOVE THE CURB LINE TO PROMOTE POSITIVE DRAINAGE.
- ALL PAVEMENT MARKINGS AND SIGNAGE SHALL BE INSTALLED PER THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
- ALL PAVEMENT MARKINGS ON-SITE ARE PAINT, UNLESS OTHERWISE NOTED.
- SAW CUT LINES SHALL BE DONE IN A STRAIGHT NEAT LINE A MINIMUM OF 18" FROM THE EXISTING EDGE OF PAVEMENT.
- IF DURING CONSTRUCTION ACTIVITIES ANY EVIDENCE OF THE PRESENCE OF STATE AND FEDERALLY PROTECTED PLANT AND/OR ANIMAL SPECIES IS DISCOVERED, WORK SHALL COME TO AN IMMEDIATE STOP AND CITY OF PORTSMOUTH SHALL BE NOTIFIED WITHIN TWO WORKING DAYS OF THE PLANT AND/OR ANIMAL SPECIES FOUND ON THE SITE.
- PRIOR TO THE START OF THE CLEARING AND GRUBBING, OR ANY SOIL DISTURBANCE CONTACT PORTSMOUTH STORMWATER MGMT. AT (603) 427-1530 FOR A POTENTIAL SOIL EROSION AND SEDIMENT CONTROL PRE-INSPECTION MEETING.
- THE CONTRACTOR MUST PROVIDE A DEWATERING PLAN, IF APPLICABLE, TO CITY OF PORTSMOUTH BUILDING AND SITE DEVELOPMENT DIVISION AT (603) 810-7243 FOR REVIEW PRIOR TO THE EROSION CONTROL MEASURES PRE-INSPECTION MEETING.
- ALL CONDITIONS ON THIS PLAN SHALL REMAIN IN EFFECT IN PERPETUITY PURSUANT TO THE REQUIREMENTS OF THE SITE PLAN REVIEW REGULATIONS.
- RECORDING NOTE:
 - THIS SITE PLAN SHALL BE RECORDED IN THE ROCKINGHAM COUNTY REGISTRY OF DEEDS.
 - ALL IMPROVEMENTS SHOWN ON THIS SITE PLAN SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE PLAN BY THE PROPERTY OWNERS. NO CHANGES SHALL BE MADE TO THIS SITE PLAN WITHOUT THE EXPRESS APPROVAL OF THE PORTSMOUTH PLANNING DIRECTOR.
- TOPOGRAPHY AND EXISTING CONDITIONS FROM FIELD SURVEY PERFORMED BY JAMES VERRA & ASSOCIATES, INC. ON 10/2019.
- FLOOD HAZARD ZONE, ZONE X (OUTSIDE THE 2% ANNUAL CHANCE FLOODPLAIN) PER F.I.R.M. #3301500260F, DATED 01/29/2021.
- HORIZONTAL DATUM IS BASED ON NAD 1983.
- VERTICAL DATUM BASED ON NAVD88.
- JURISDICTIONAL WETLANDS DELINEATED BY GOVE ENVIRONMENTAL SERVICES, INC. DURING OCTOBER 2019 IN ACCORDANCE WITH:
 - 2012 CORPS OF ENGINEERS WETLANDS DELINEATIONS MANUAL, TECHNICAL REPORT ERDC/EL TR-12-
 - FIELD INDICATORS FOR IDENTIFYING HYDRIC SOILS IN NEW ENGLAND, VERSION 4, APRIL 2019.
 - US ARMY CORPS OF ENGINEERS NATIONAL WETLAND PLAN US, 2018.
 - CLASSIFICATION OF WETLANDS AND DEEPWATER HABITATS OF THE U.S., USFW MANUAL FWS/OBS-79/31 (1979).
- UNDERGROUND ELECTRIC, WATER, GAS, & SEWER LOCATIONS BASED ON SURFACE MARKINGS BY GPRS, INC ON 10/2019.



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PORTSMOUTH REGIONAL
 HOSPITAL
 RADIATION ONCOLOGY ADDITION
 PORTSMOUTH, NEW HAMPSHIRE

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 DATE: 05/05/2022
 KIMLEY-HORN PROJECT NO. 118252004

SITE LAYOUT - ENLARGEMENT

C4.01

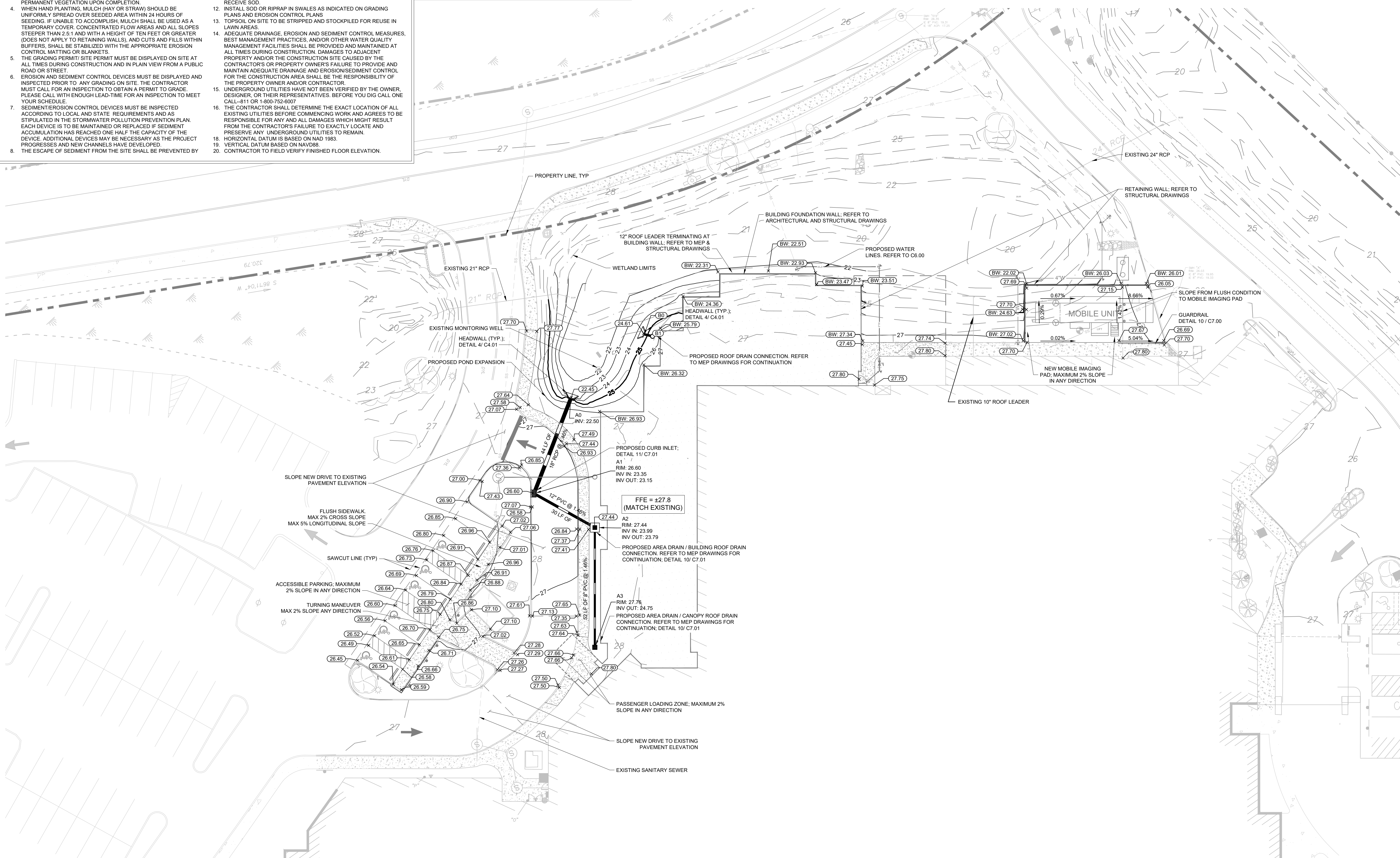
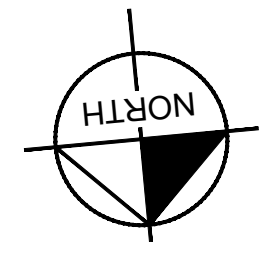
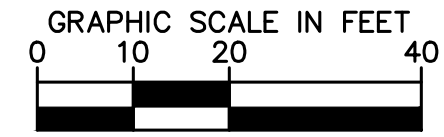
GRADING NOTES

- CONTRACTOR RESPONSIBLE FOR VERIFYING LOCATION, SIZE, AND ELEVATIONS OF EXISTING UTILITIES AT CONNECTION POINTS PRIOR TO GRADING OR INSTALLATION OF ANY PROPOSED UTILITIES. CONTRACTOR TO IMMEDIATELY NOTIFY OWNER'S REPRESENTATIVE IF DISCREPANCIES ARE FOUND.
- ADDITIONAL EROSION CONTROL DEVICES TO BE USED AS REQUIRED BY LOCAL INSPECTOR.
- DISTURBED AREAS LEFT IDLE FOR FIVE DAYS, AND NOT TO FINAL GRADE, WILL BE ESTABLISHED TO TEMPORARY VEGETATION. MULCH, TEMPORARY VEGETATION OR PERMANENT VEGETATION SHALL BE COMPLETED ON ALL EXPOSED AREAS WITHIN 14 DAYS AFTER DISTURBANCE. ALL AREAS TO FINAL GRADE WILL BE ESTABLISHED TO PERMANENT VEGETATION UPON COMPLETION.
- WHEN HAND PLANTING, MULCH (HAY OR STRAW) SHOULD BE UNIFORMLY SPREAD OVER SEEDED AREA WITHIN 24 HOURS OF SEEDING. IF UNABLE TO ACCOMPLISH, MULCH SHALL BE USED AS A TEMPORARY COVER. CONCENTRATED FLOW AREAS AND ALL SLOPES STEEPER THAN 2:1 AND WITH A HEIGHT OF TEN FEET OR GREATER (DOES NOT APPLY TO RETAINING WALLS), AND CUTS AND FILLS WITHIN BUFFERS, SHALL BE STABILIZED WITH THE APPROPRIATE EROSION CONTROL MATTING OR BLANKETS.
- THE GRADING PERMIT SITE PERMIT MUST BE DISPLAYED ON SITE AT ALL TIMES DURING CONSTRUCTION AND IN PLAIN VIEW FROM A PUBLIC ROAD OR STREET.
- EROSION AND SEDIMENT CONTROL DEVICES MUST BE DISPLAYED AND INSPECTED PRIOR TO ANY GRADING ON SITE. THE CONTRACTOR MUST CALL FOR AN INSPECTION TO OBTAIN A PERMIT TO GRADE. PLEASE CALL WITH ENOUGH LEAD-TIME FOR AN INSPECTION TO MEET YOUR SCHEDULE.
- SEDIMENT/EROSION CONTROL DEVICES MUST BE INSPECTED ACCORDING TO LOCAL AND STATE REQUIREMENTS AND AS STIPULATED IN THE STORMWATER POLLUTION PREVENTION PLAN. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MAY BE NECESSARY AS THE PROJECT PROGRESSES AND NEW CHANNELS HAVE DEVELOPED.
- THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY

- THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES.
- EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION CONTROL AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
 - CONTRACTOR SHALL REVIEW SITE GEOTECHNICAL REPORT BEFORE COMMENCING GRADING OPERATIONS.
 - SEED ALL DISTURBED AREAS UNLESS OTHERWISE NOTED AS PART OF THIS CONTRACT. REFER TO LANDSCAPING PLANS FOR AREAS TO RECEIVE SO2.
 - INSTALL SO2 OR RIPRAP IN SWALES AS INDICATED ON GRADING PLANS AND EROSION CONTROL PLANS.
 - TOPSOIL ON SITE TO BE STRIPPED AND STOCKPILED FOR REUSE IN LAWN AREAS.
 - ADEQUATE DRAINAGE, EROSION AND SEDIMENT CONTROL MEASURES, BEST MANAGEMENT PRACTICES, AND/OR OTHER WATER QUALITY MANAGEMENT FACILITIES SHALL BE PROVIDED AND MAINTAINED AT ALL TIMES DURING CONSTRUCTION. DAMAGES TO ADJACENT PROPERTY AND/OR THE CONSTRUCTION SITE CAUSED BY THE CONTRACTOR'S OR PROPERTY OWNER'S FAILURE TO PROVIDE AND MAINTAIN ADEQUATE DRAINAGE AND EROSION/SEDIMENT CONTROL FOR THE CONSTRUCTION AREA SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER AND/OR CONTRACTOR.
 - UNDERGROUND UTILITIES HAVE NOT BEEN VERIFIED BY THE OWNER, DESIGNER, OR THEIR REPRESENTATIVES. BEFORE YOU DIG CALL ONE CALL-811 OR 1-800-752-6007.
 - THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK AND AGREES TO BE RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT RESULT FROM THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY UNDERGROUND UTILITIES TO REMAIN.
 - HORIZONTAL DATUM IS BASED ON NAD 1983.
 - VERTICAL DATUM BASED ON NAVD83.
 - CONTRACTOR TO FIELD VERIFY FINISHED FLOOR ELEVATION.

GRADING PLAN LEGEND

- SPOT ELEVATION
- HP HIGH POINT
- TC TOP OF CURB
- TW GRADE AT TOPSIDE OF WALL
- INV INVERT
- ME MATCH EXISTING
- FINISH FLOOR ELEVATION
- EXISTING CONTOUR
- PROPOSED CONTOUR
- LP LOW POINT
- BC BOTTOM OF CURB / GUTTER LINE
- BW GRADE AT BOTTOM SIDE OF WALL
- RM TOP OF GRATE / COVER



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PORTSMOUTH REGIONAL HOSPITAL RADIATION ONCOLOGY ADDITION
 PORTSMOUTH, NEW HAMPSHIRE

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| DATE: | 05/05/2022 |
| KIMLEY-HORN PROJECT NO. 118252004 | |

GRADING & DRAINAGE PLAN

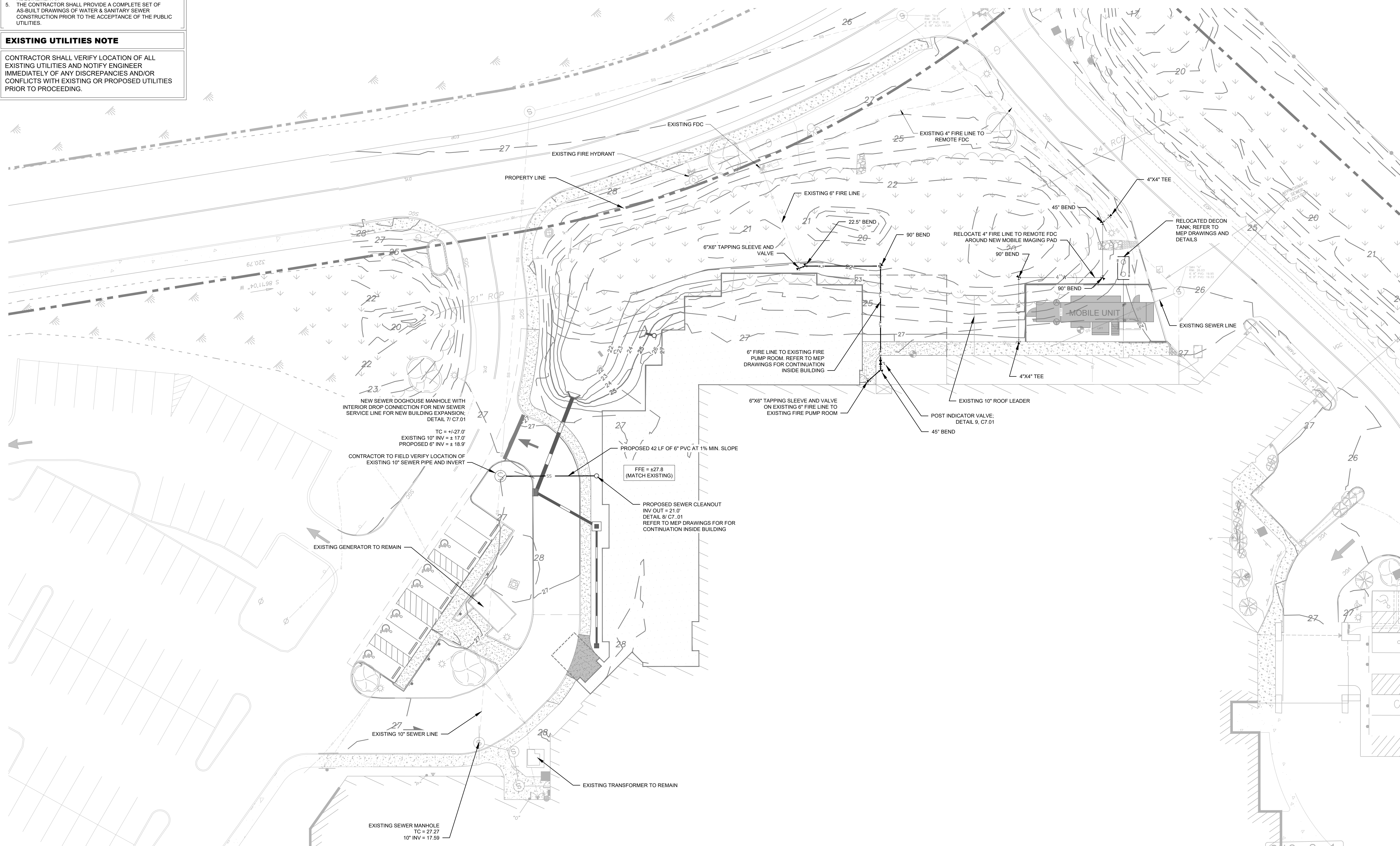
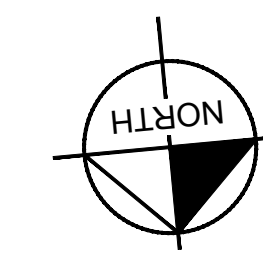
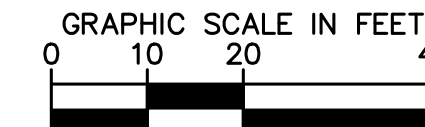
C5.00

UTILITY NOTES

1. CONTRACTOR RESPONSIBLE FOR VERIFYING EXISTING ELEVATIONS COMPARED TO THOSE SHOWN ON PLAN PRIOR TO GRADING. NOTIFY OWNER'S REPRESENTATIVE IF DISCREPANCIES ARE FOUND.
2. ALL WATER AND SEWER MATERIALS AND CONSTRUCTION SHALL BE IN COMPLIANCE WITH CITY OF PORTSMOUTH WATER/SEWER DEPARTMENT STANDARD SPECIFICATIONS.
3. MAINTAIN MINIMUM 10 FEET HORIZONTAL SEPARATION BETWEEN WATER & SANITARY SEWER OR 18" VERTICAL SEPARATION AT CROSSING LOCATIONS.
4. REFER TO CITY OF PORTSMOUTH WATER/SEWER DEPARTMENT STANDARD SPECIFICATIONS FOR PIPE BEDDING REQUIREMENTS.
5. THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF AS-BUILT DRAWINGS OF WATER & SANITARY SEWER CONSTRUCTION PRIOR TO THE ACCEPTANCE OF THE PUBLIC UTILITIES.

EXISTING UTILITIES NOTE

CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES AND NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES AND/OR CONFLICTS WITH EXISTING OR PROPOSED UTILITIES PRIOR TO PROCEEDING.



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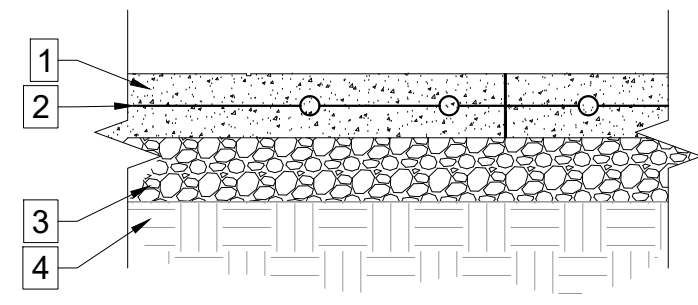
PORTSMOUTH REGIONAL HOSPITAL
RADIATION ONCOLOGY ADDITION
 PORTSMOUTH, NEW HAMPSHIRE

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SITE UTILITY PLAN

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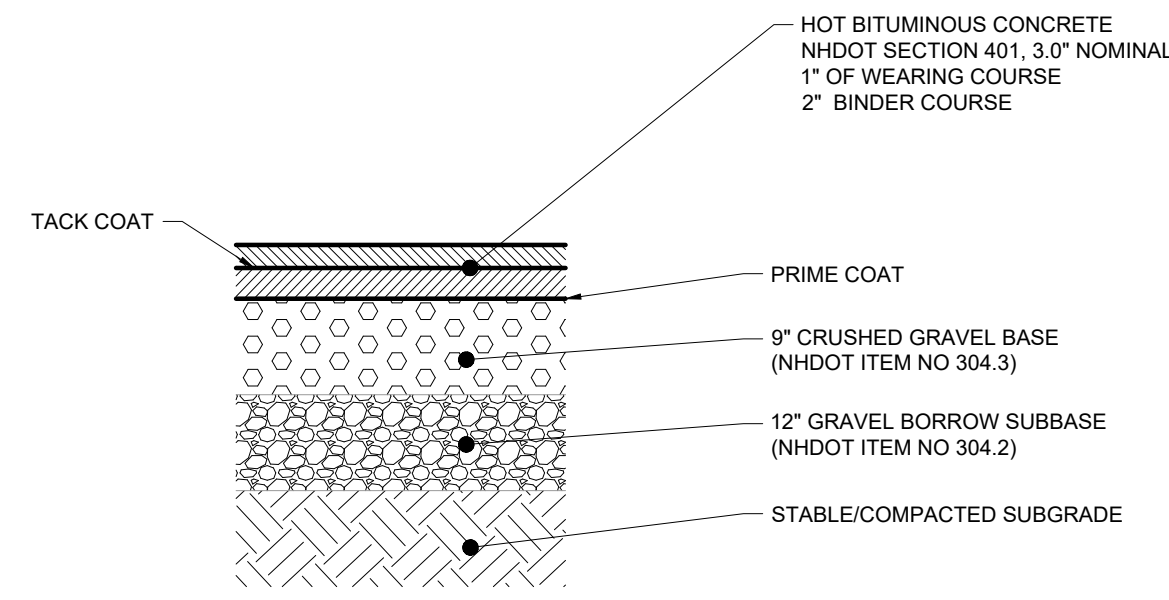


- NOTES:
- PAVEMENT SECTION TO BE PROVIDED BY GEOTECH REPORT. FINAL PAVEMENT SECTION TO BE DETERMINED BY ONSITE GEOTECH BASED UPON EXISTING SOIL CONDITIONS.
 - FIBER MESH REINFORCING CAN BE SUBSTITUTED FOR WWM. APPLICATION RATES SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
 - ALL MATERIALS AND CONSTRUCTION SHALL COMPLY WITH NH-DOT STANDARD SPECIFICATIONS FOR ROADWAY AND BRIDGE CONSTRUCTION, LATEST EDITION.
 - LIGHT BROOM FINISH SHALL BE PERPENDICULAR TO THE DIRECTION OF TRAVEL.

PAVEMENT LEGEND

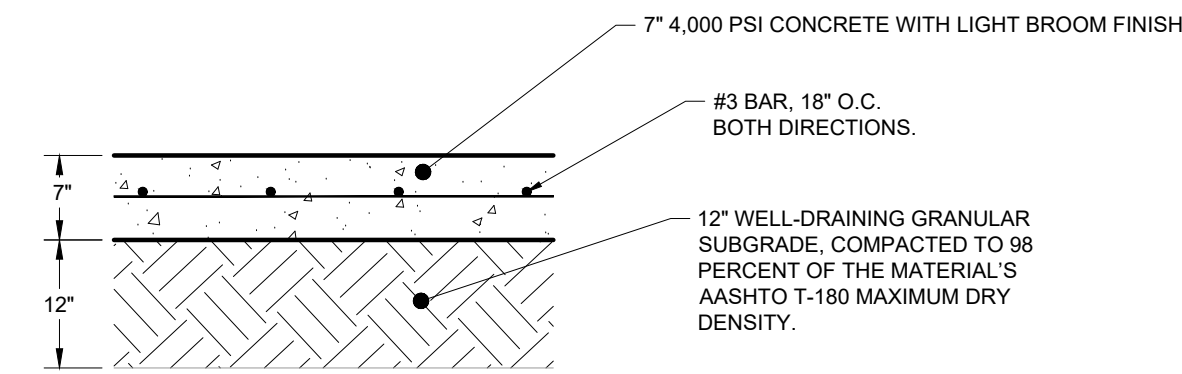
| | |
|---|---|
| 1 | 4" 3,500 PSI CONCRETE WITH LIGHT BROOM FINISH |
| 2 | 6 X 6, 10, 10 W.W.M. |
| 3 | 6" COMPACTED CRUSHED GRAVEL (NHDOT 304.3) |
| 4 | COMPACTED SUBGRADE |

1 CONCRETE SIDEWALK
NOT TO SCALE



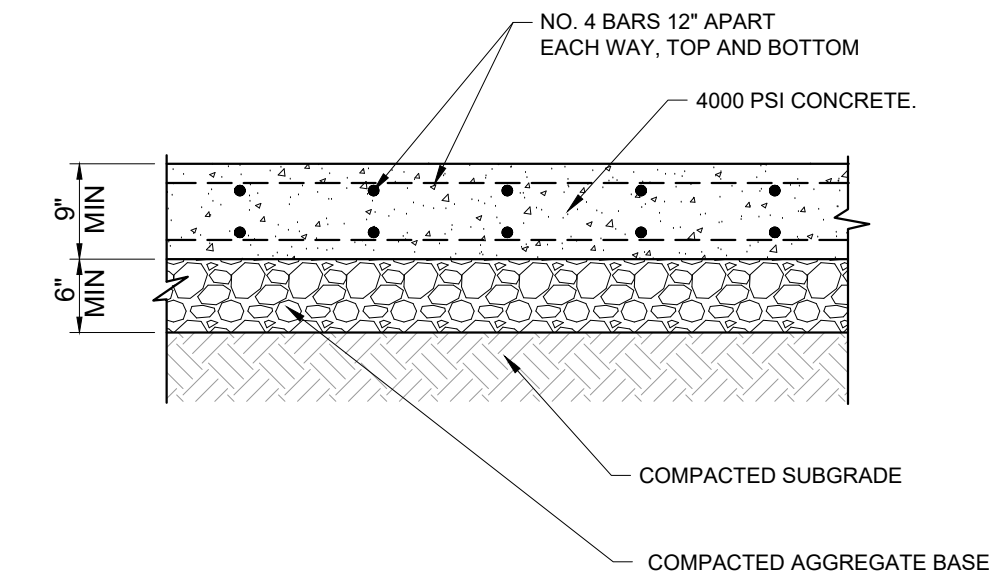
- NOTES:
- PAVEMENT SECTION PER GEOTECH ENGINEER REPORT PREPARED BY HALEY & ALDRICH, INC., DATED APRIL 2022. FINAL PAVEMENT SECTION TO BE DETERMINED BY ONSITE GEOTECH BASED UPON EXISTING SOIL CONDITIONS.
 - ALL MATERIALS AND CONSTRUCTION SHALL COMPLY WITH NH-DOT STANDARD SPECIFICATIONS FOR ROADWAY AND BRIDGE CONSTRUCTION, LATEST EDITION.

2 HEAVY DUT ASPHALT
NOT TO SCALE



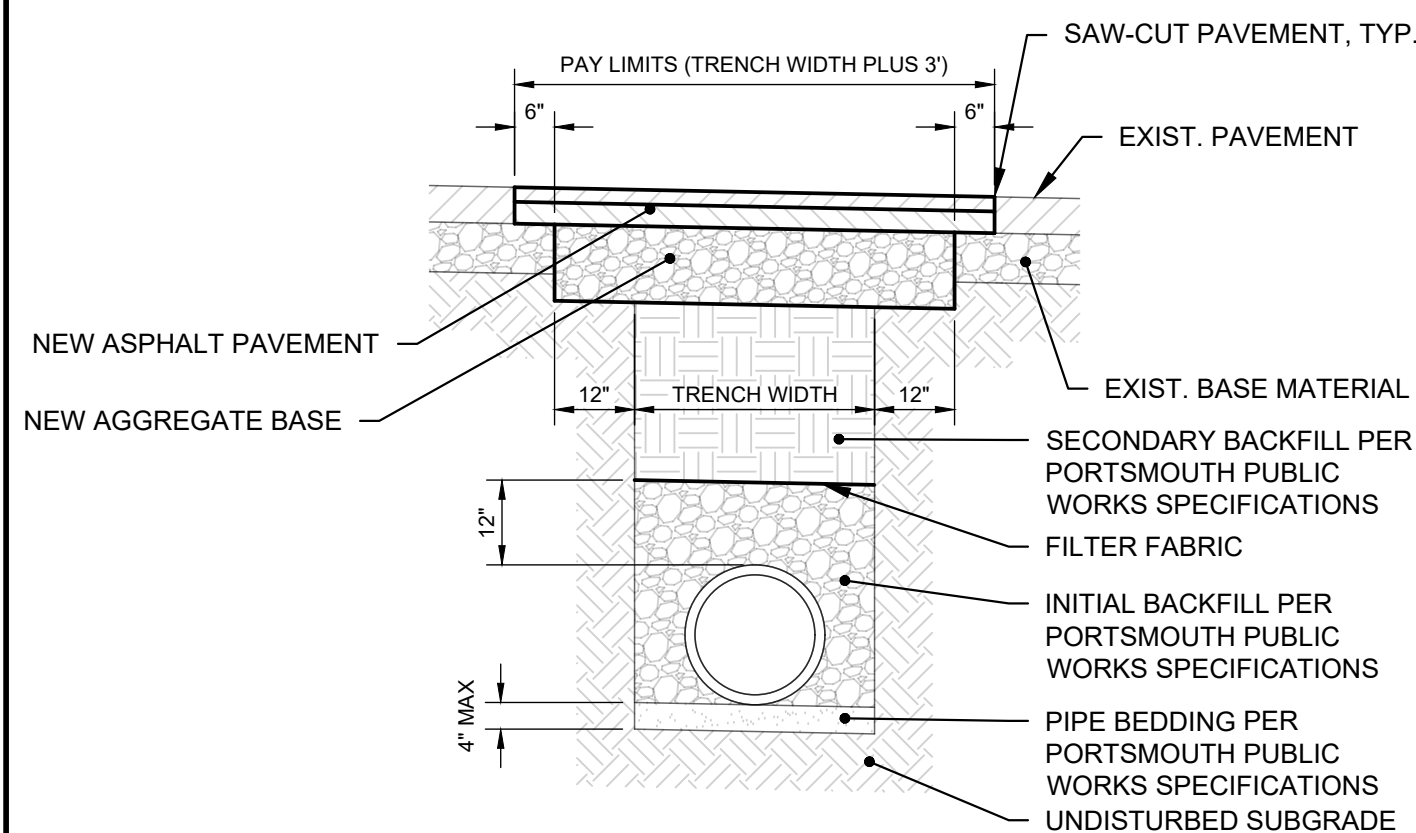
- NOTES:
- SEE GEOTECHNICAL SPECIFICATIONS FOR SUBGRADE REQUIREMENTS. PAVING SECTION PROVIDED IS TAKEN FROM THE ASSOCIATED GEOTECH REPORT.
 - ALL MATERIALS AND CONSTRUCTION SHALL COMPLY WITH NHDOT STANDARD SPECIFICATIONS FOR ROADWAY AND BRIDGE CONSTRUCTION, LATEST EDITION.
 - BROOM FINISH SHALL BE PERPENDICULAR TO THE DIRECTION OF TRAVEL.
 - PLACE EXPANSION JOINTS AT A MAXIMUM OF 75' O.C. AND 1.75' DEEP.
 - PLACE CONTROL JOINTS AT A MAXIMUM OF 14' O.C.

3 CONCRETE PAVEMENT
NOT TO SCALE



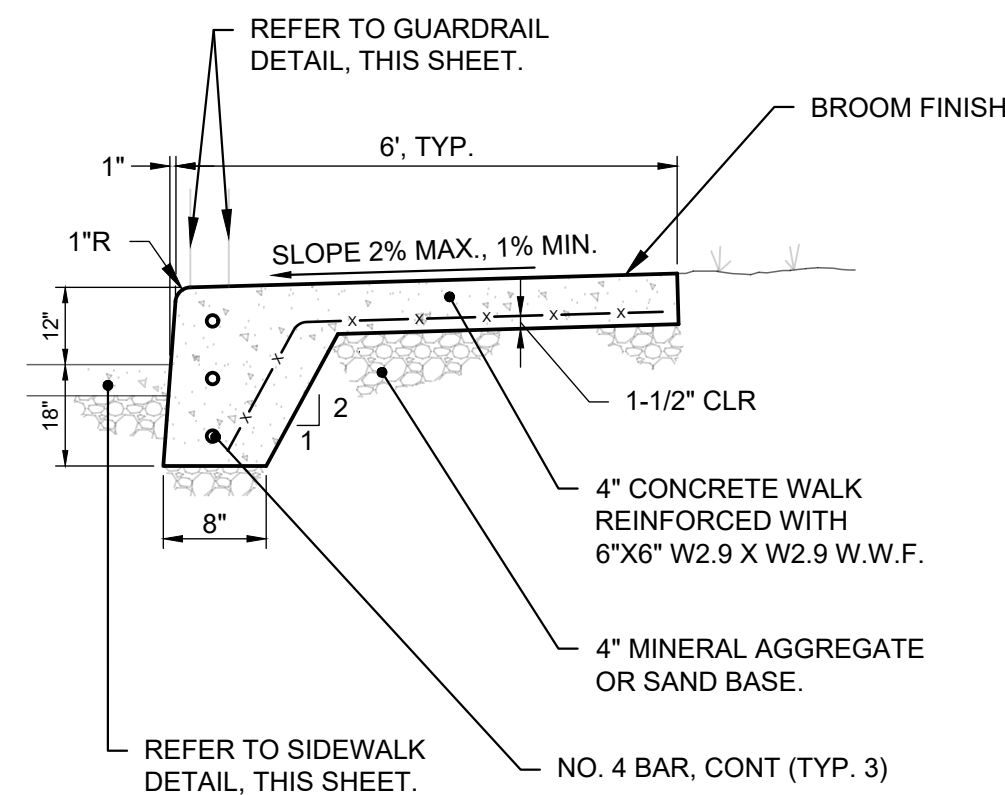
- NOTE:
CONTRACTOR TO VERIFY SLAB THICKNESS AND REINFORCING WITH THE MOBILE IMAGING UNIT VENDOR. SOME SYSTEMS MAY REQUIRE THICKER PAVEMENT AND/OR NON-FERROUS REINFORCEMENT OR FIBERGLASS REINFORCED CONCRETE.

4 MOBILE IMAGING CONCRETE PAD
NOT TO SCALE



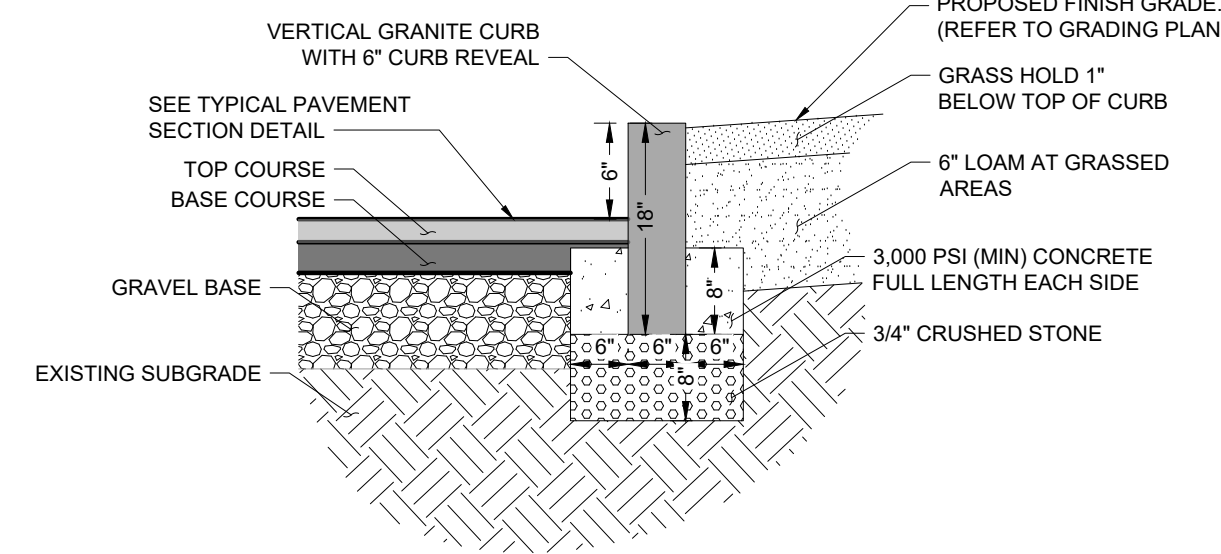
- NOTES:
- THE NEW ASPHALT PAVEMENT SHALL BE OF THE SAME TYPE AND, AT A MINIMUM, THE SAME THICKNESS AS THE EXISTING ASPHALT PAVEMENT.
 - THE NEW AGGREGATE BASE SHALL BE AT LEAST 1.5 TIMES THE THICKNESS OF THE EXISTING AGGREGATE BASE (6" MINIMUM).

5 PAVEMENT TRENCH REPAIR
NOT TO SCALE



- NOTES:
- USE 4000 PSI CONCRETE AND GRADE 60 STEEL.
 - PROVIDE CONTROL JOINTS 5' APART AND EXPANSION JOINTS 25' APART, AND WHERE SIDEWALKS ABUT RIGID MATERIALS.

6 SIDEWALK WITH 12\"/>

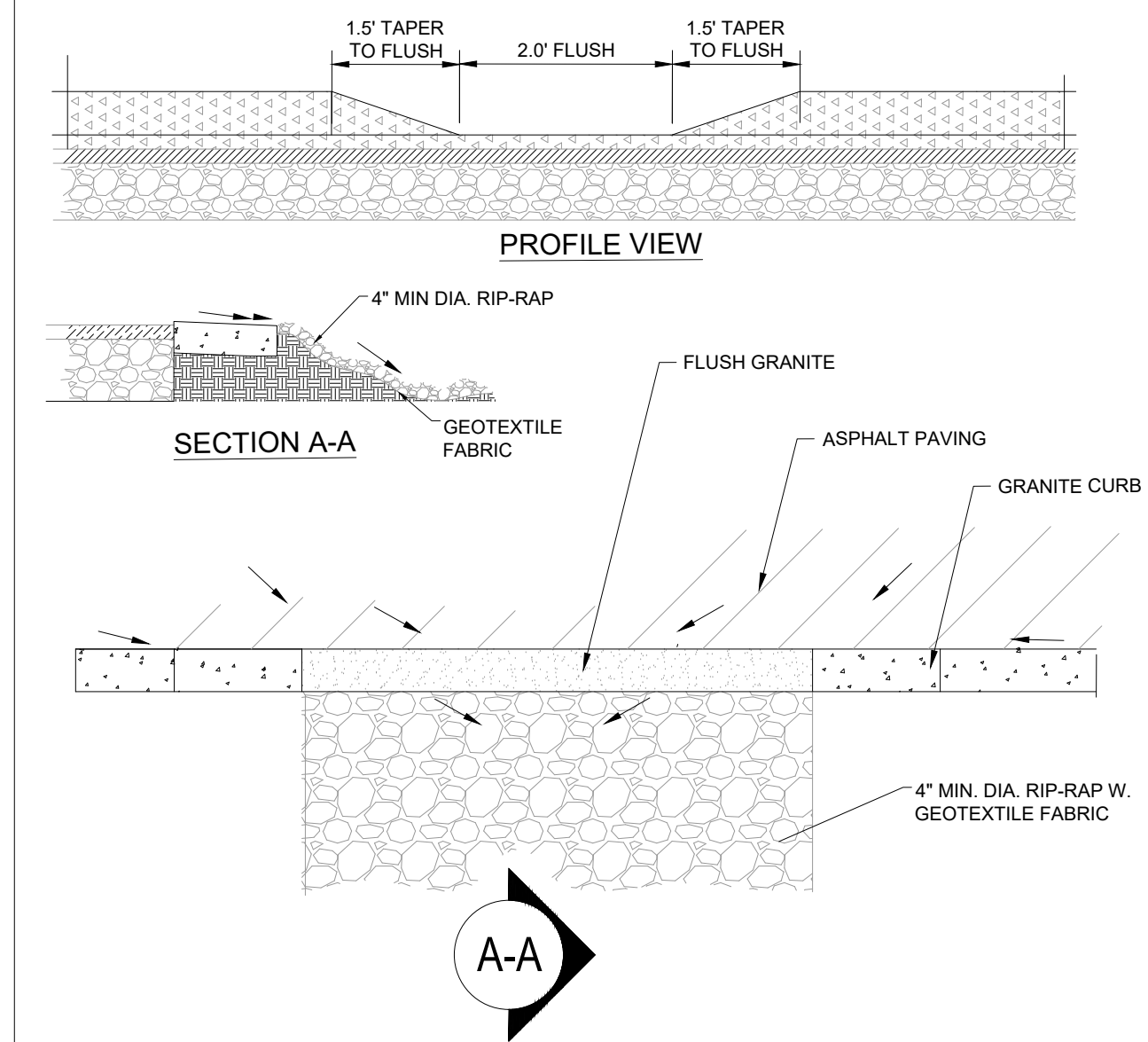


- NOTES:
- ADJOINING STONES SHALL HAVE THE SAME LENGTH.
 - JOINTS BETWEEN STONES SHALL HAVE A MAX SPACING OF 1/2\"/>

CURB RADIUS TABLE

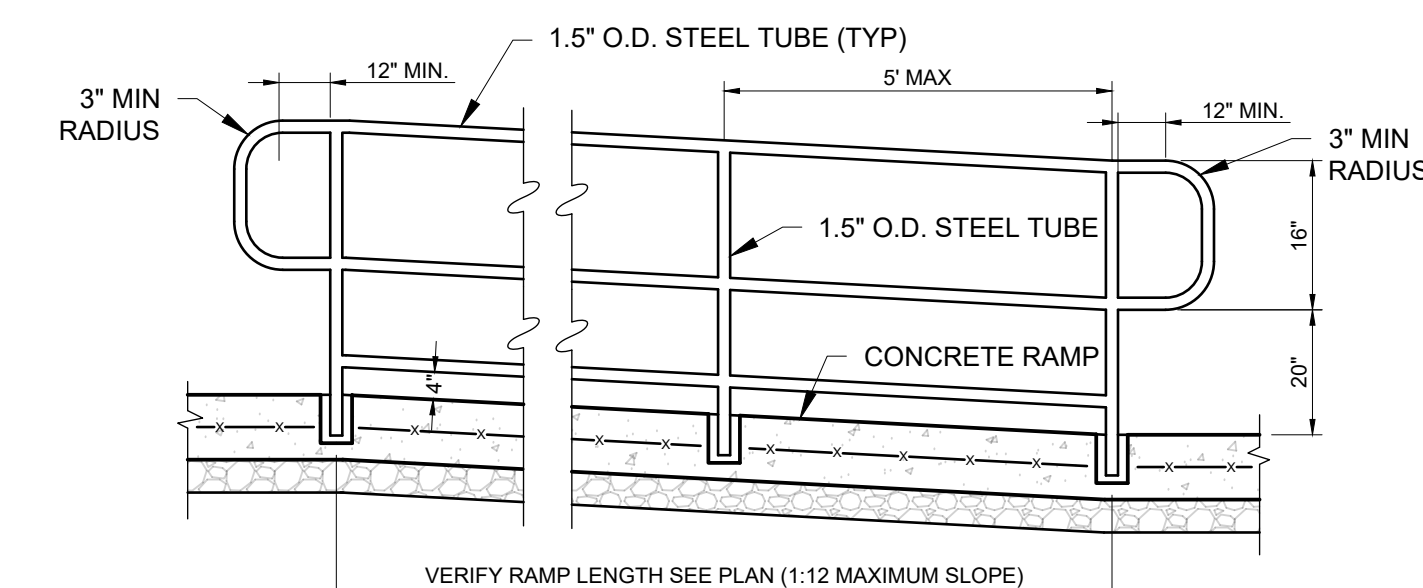
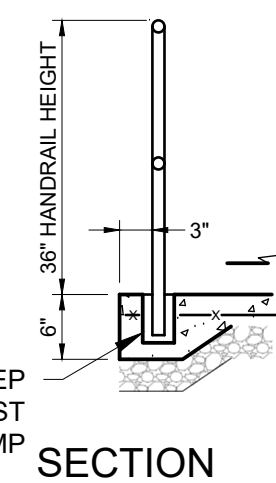
| RADIUS | MAX LENGTH |
|---------|-----------------|
| <20' | USE CURVED CURB |
| 21' | 3' |
| 22'-28' | 4' |
| 29'-35' | 5' |
| 36'-42' | 6' |
| 43'-49' | 7' |
| 50'-56' | 8' |
| 57'-60' | 9' |
| >60' | 10' |

7 6\"/>

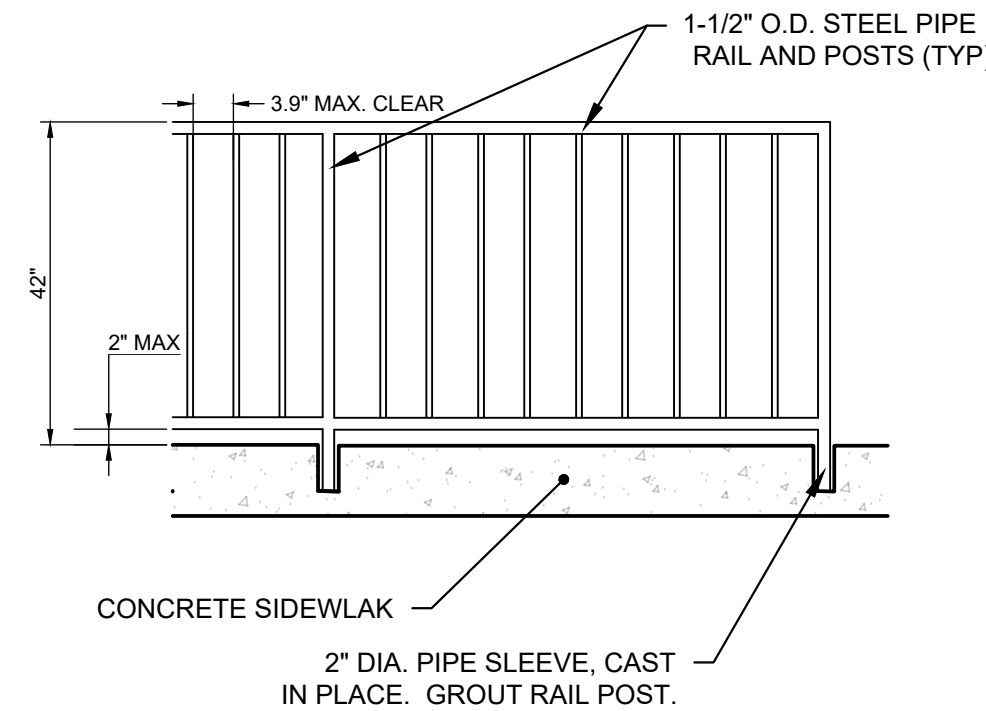


8 CURB CUT
NOT TO SCALE

- NOTES:
- PROVIDE 36" HEIGHT 1.5" O.D. HAND RAIL ON BOTH SIDES OF THE RAMP WITH 12" HAND RAIL EXTENSIONS PAST THE TOP AND BOTTOM OF THE RAMP.
 - VARIATIONS IN HAND RAIL HEIGHT SHALL NOT BE ALLOWED.
 - THE RAMP SHALL HAVE A MINIMUM WIDTH OF 60".
 - HAND RAIL SHALL BE SMOOTH-FINISH. ALL WELDED SURFACES SHALL BE PAINTED WITH TWO COATS OF ENAMEL. COLOR TO BE SELECTED BY THE ARCHITECT.
 - PROVIDE HAND RAIL/GUARD RAIL AT ALL RETAINING WALLS GREATER THAN 30" IN HEIGHT.
 - RAMP CONSTRUCTION SHALL BE SIMILAR TO CONCRETE SIDEWALKS.

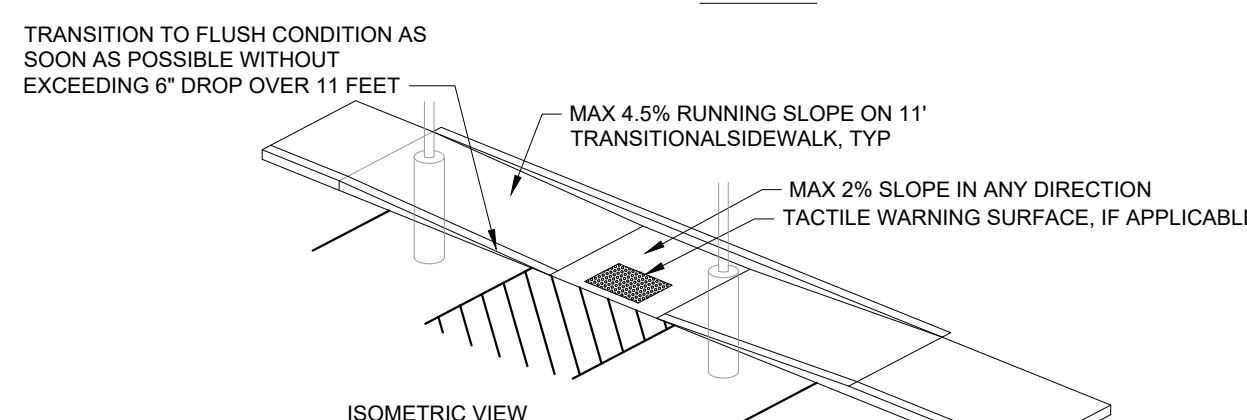
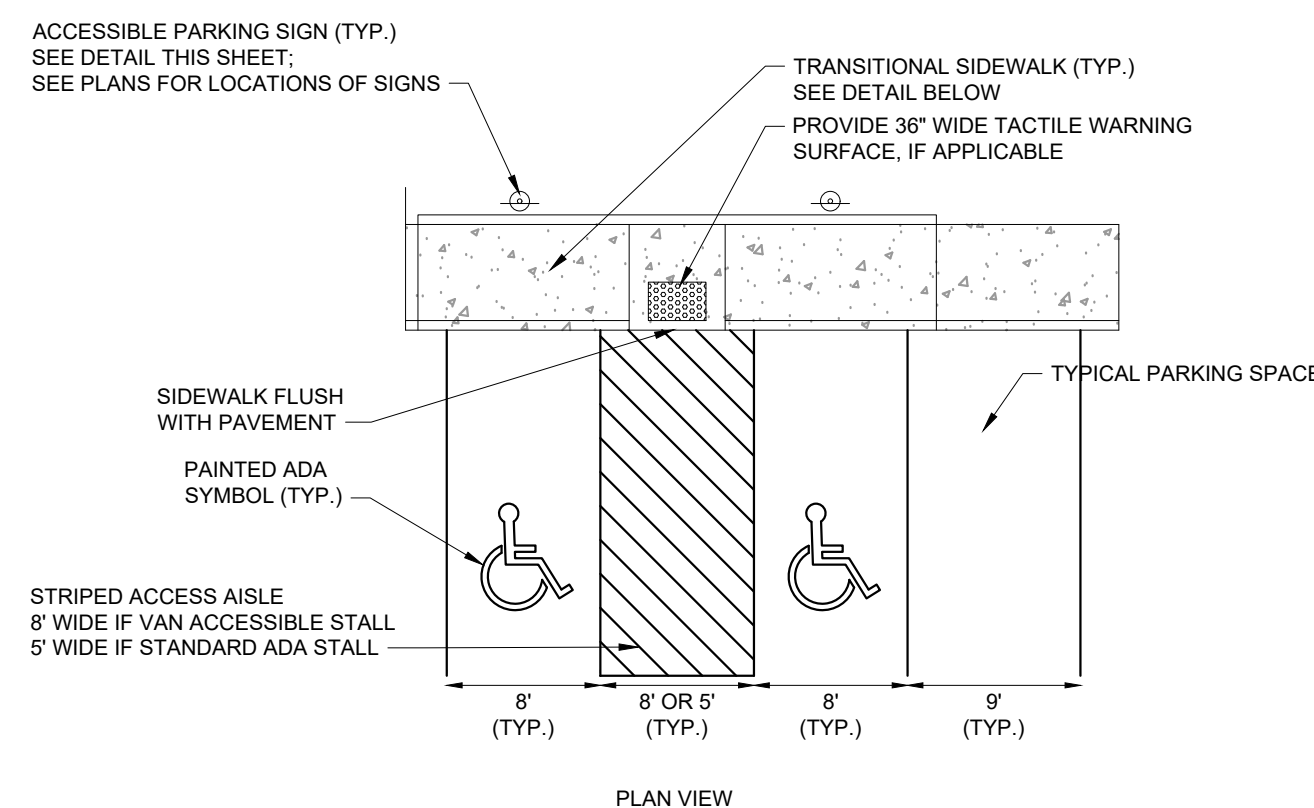


9 ACCESSIBLE RAMP WITH HANDRAIL
NOT TO SCALE

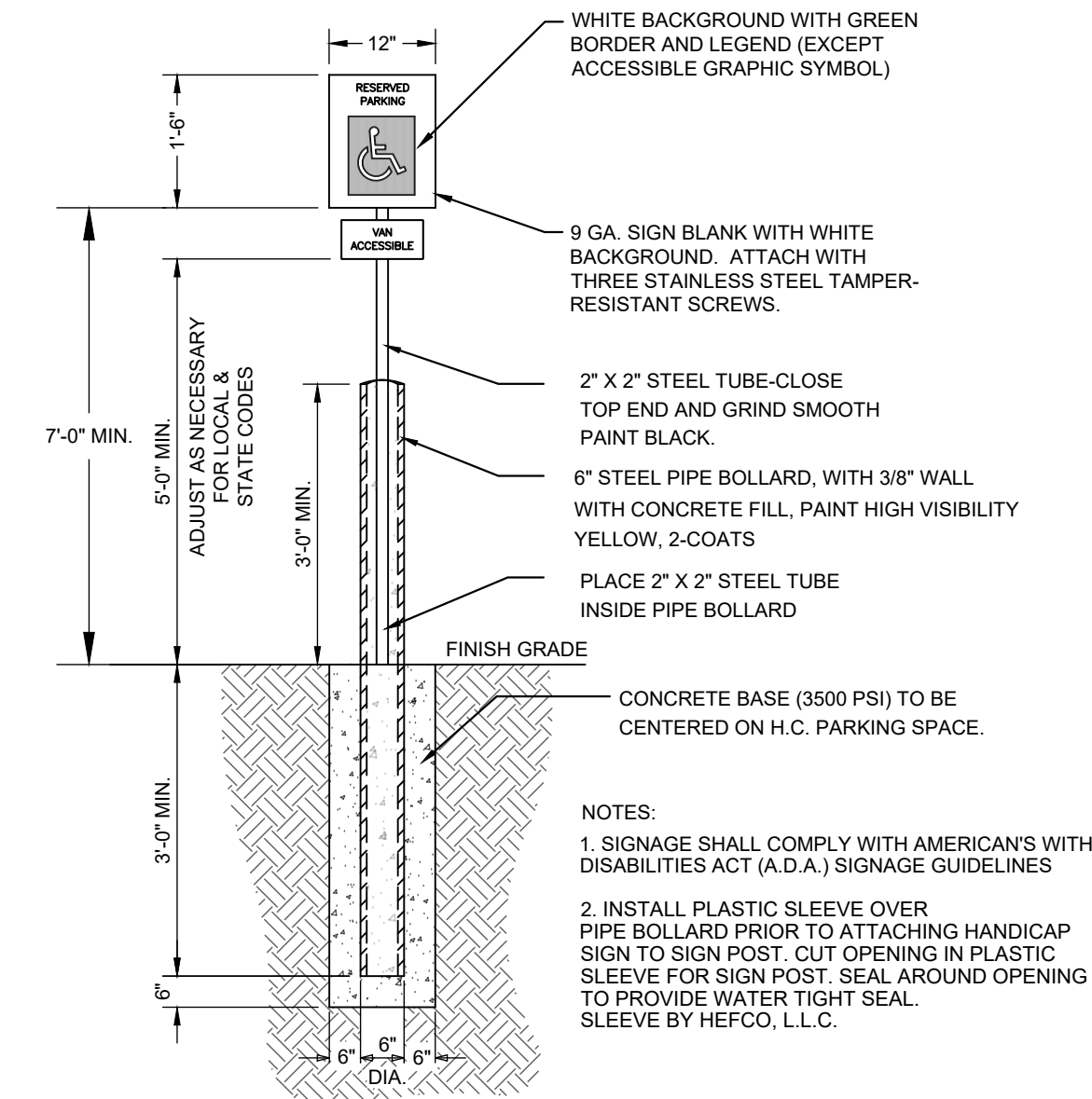


- NOTES:
- VARIATIONS IN GUARD RAIL HEIGHT SHALL NOT BE ALLOWED.
 - MAXIMUM CLEARANCE BETWEEN BOTTOM RAIL AND CONCRETE SHALL BE 2". GUARD RAIL SHALL BE SMOOTH-FINISHED. ALL WELDED SURFACES PRIMED AND PAINTED WITH TWO COATS OF ENAMEL. COLOR TO BE SELECTED BY ARCHITECT.

10 GUARD RAIL
NOT TO SCALE



11 ADA PARKING STALL LAYOUT
NOT TO SCALE



- NOTES:
- SIGNAGE SHALL COMPLY WITH AMERICAN'S WITH DISABILITIES ACT (A.D.A.) SIGNAGE GUIDELINES
 - INSTALL PLASTIC SLEEVE OVER PIPE BOLLARD PRIOR TO ATTACHING HANDICAP SIGN TO SIGN POST. CUT OPENING IN PLASTIC SLEEVE FOR SIGN POST. SEAL AROUND OPENING TO PROVIDE WATER TIGHT SEAL. SLEEVE BY HEFCO, L.L.C.

12 ACCESSIBLE PARKING SIGNAGE
NOT TO SCALE

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