

May 26, 2023

City of Columbus, Department of Public Utilities
Attn: Mr. Greg Fedner, P.E.
City of Columbus, Division of Sewerage & Drainage Engineer
910 Dublin Road
Columbus, Ohio 43215

Subject: Type II Variance for Nationwide Children's Hospital Enabling Storm for Inpatient Expansion (CC-19940)

Dear Mr. Fedner,

We are requesting a Type II variance to the Stormwater Drainage Manual, Section 2.3.2.2 Storm Sewer Hydraulic Requirements (Pipe Sizing Criteria / Storm Sewer Layout Requirements. The project is known as Nationwide Children's Hospital Enabling Storm for Inpatient Expansion and is located at 630 Children's Drive, Columbus, Ohio 43205. We request that approval to use a 36" diameter storm with a pipe length of 388.43' between access structures in lieu of the required 300' maximum length between access structures for pipes under 60" in diameter. This will be a private storm sewer that will be maintained by the owner. Options are provided in accordance with the City of Columbus Stormwater Manual.

The Preferred plan can be seen in Exhibits 1 and 1A. The Preferred option proposes utilizing a 36" diameter storm with a pipe length of 388.43' between access manholes 1 and 2. The 36" diameter storm will be routed underneath a future Nationwide Children's Hospital Underground Parking Garage. The storm installed under the garage will comply with all applicable building code compliance. Nationwide Children's Hospital is aware there may be additional expense for maintenance of this sewer due to the need for equipment with longer reach for trenchless cleaning, and maintenance activities.

See below for two Alternate options:

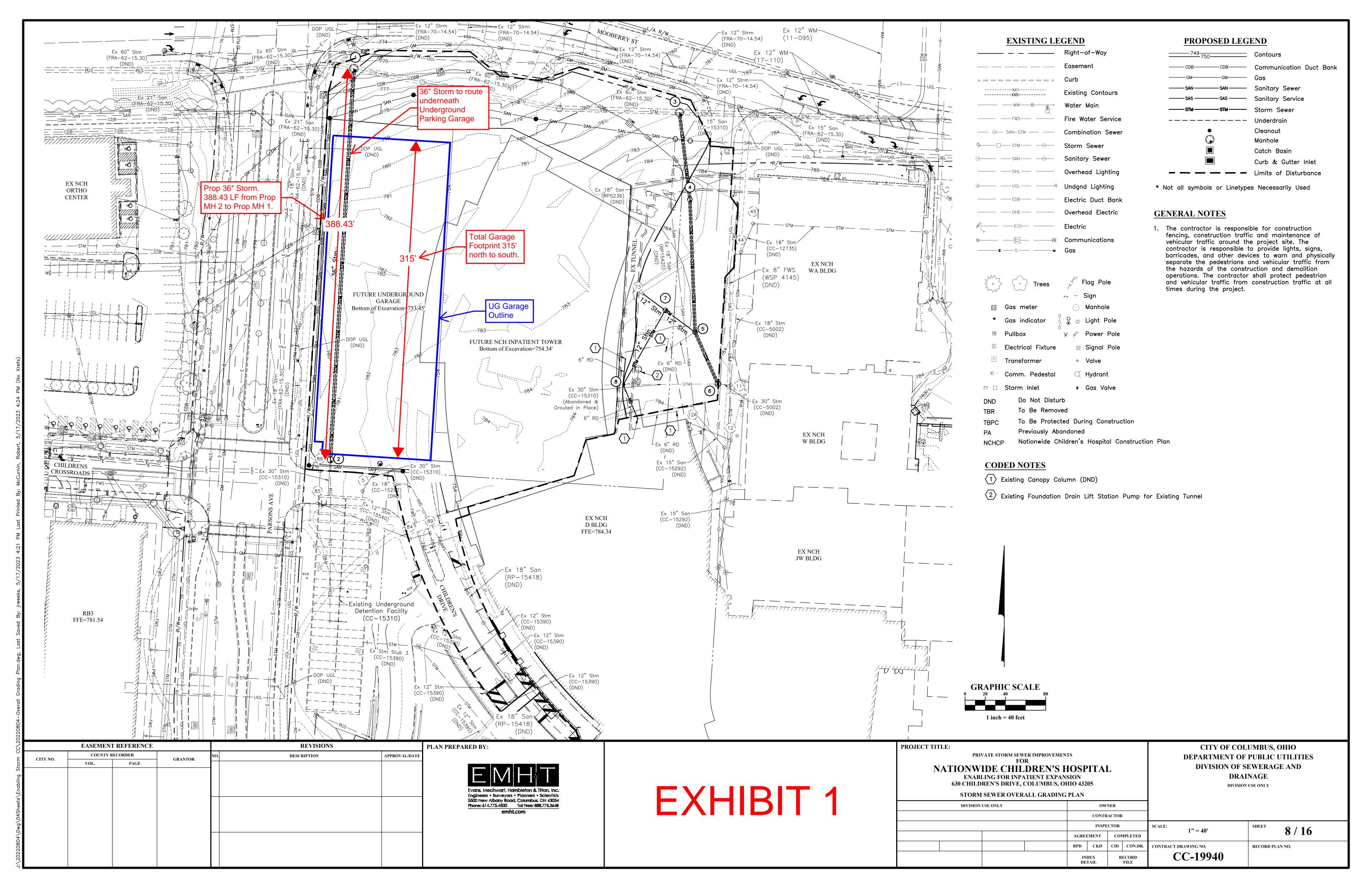
- 1. Alternative Option 1 can be seen in Exhibits 2 and 2A. This option has two pipe runs that utilizes a 36" diameter storm with a pipe length of 300.00' between access manholes 2 and X and a 36" diameter storm with a pipe length of 88.43' between access manholes X and 1. This option meets the 300' manual requirement. This option is no longer a viable option in its current state. As shown in exhibits 2 and 2A, manhole X would be located within the underground garage footprint. This structure would require a watertight bolt down lid that could be compromised and subject to surcharge into the underground garage from the existing 60" downstream storm this system ties into. Additionally, the plan (CC-19940), that this manhole would be installed under needs approved well in advance of the construction of the parking garage. Permit Plans for the garage have not started the review process. Detail and coordination between manhole X and the garage will be required for both CC-19940 and the Garage Permit Plans causing significant delays to the overall project schedule.
- 2. Alternate Option 2 can be seen in Exhibits 3 and 3A. This option has the same pipe runs as described in Alternate Option 1. This option is no longer a viable option in its current state. As shown in exhibits 3 and 3A, this option would shorten the overall garage's north to south footprint approximately 27' to the south to allow for the installation of manhole X directly to the surface. This footprint reduction would result in the loss of approximately 24 parking spaces. Nationwide Children's Hospital has stated that this significant of a reduction to the garage footprint and parking count would result in the removal of the garage from the project, jeopardizing the project.

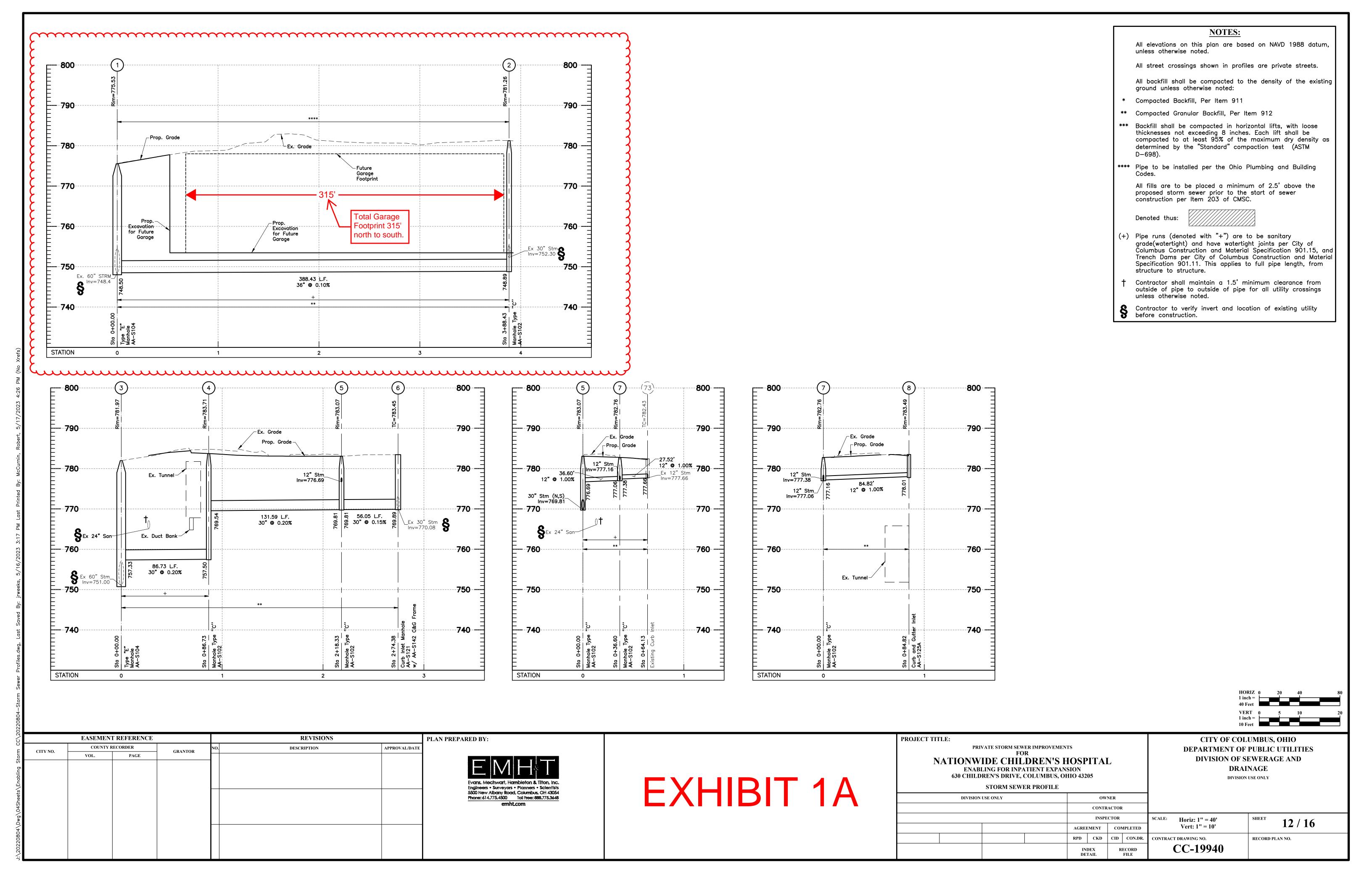
If you have any questions or further clarification is needed please give me a call at 614.348.7757

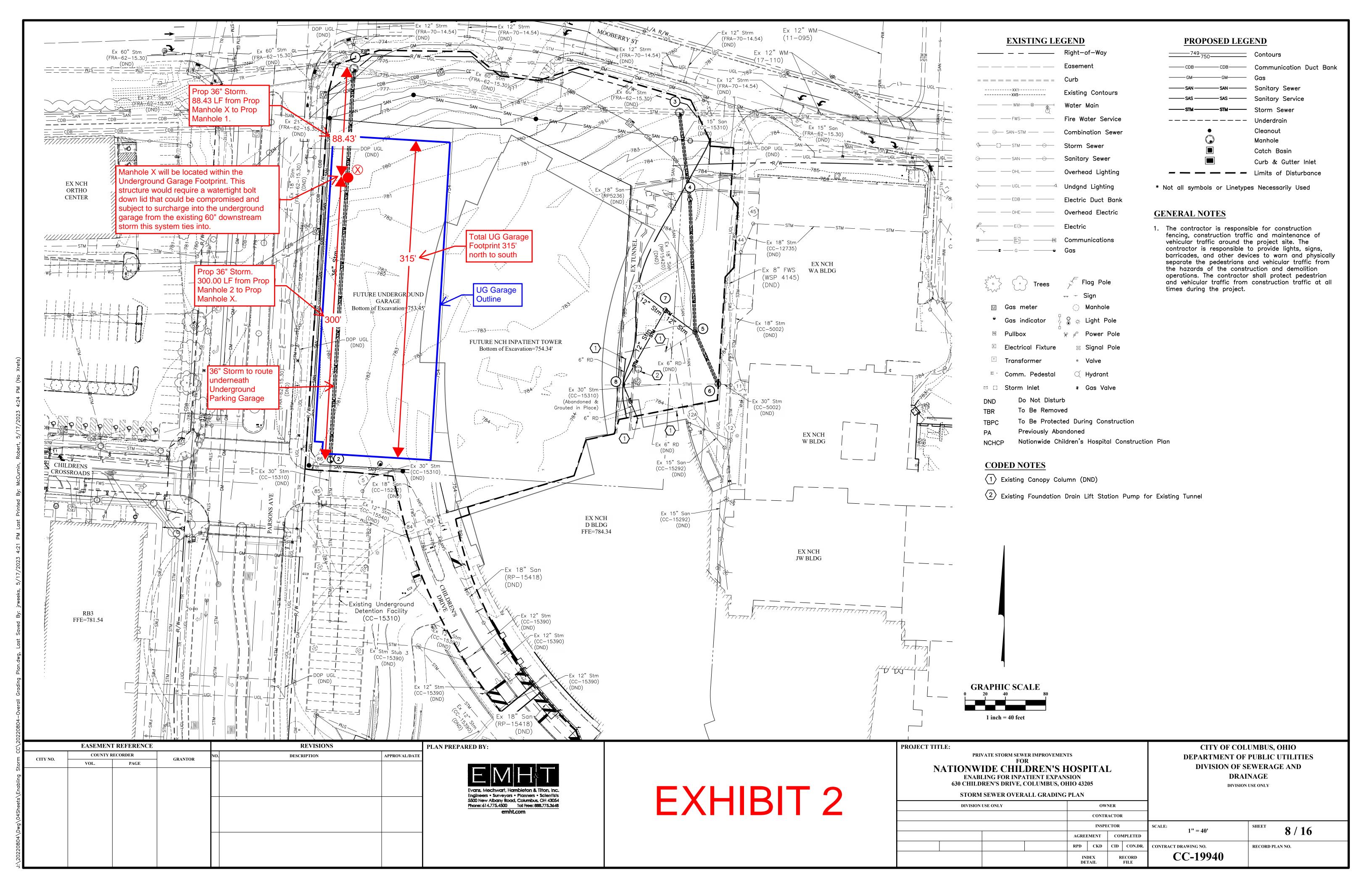
ROBERT D. MCCURNIN E-88336

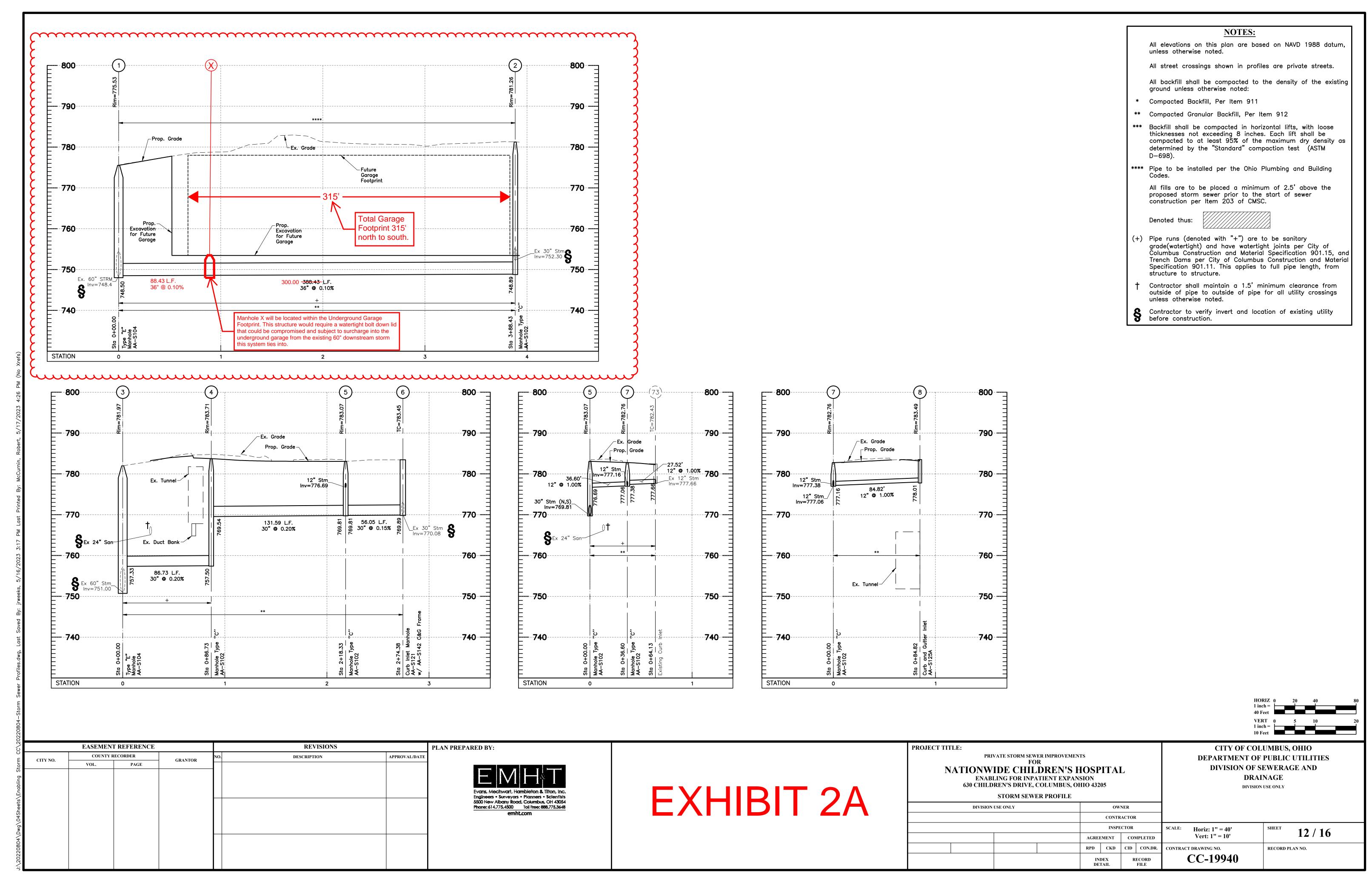
Sincerely,
Roboot Mclim

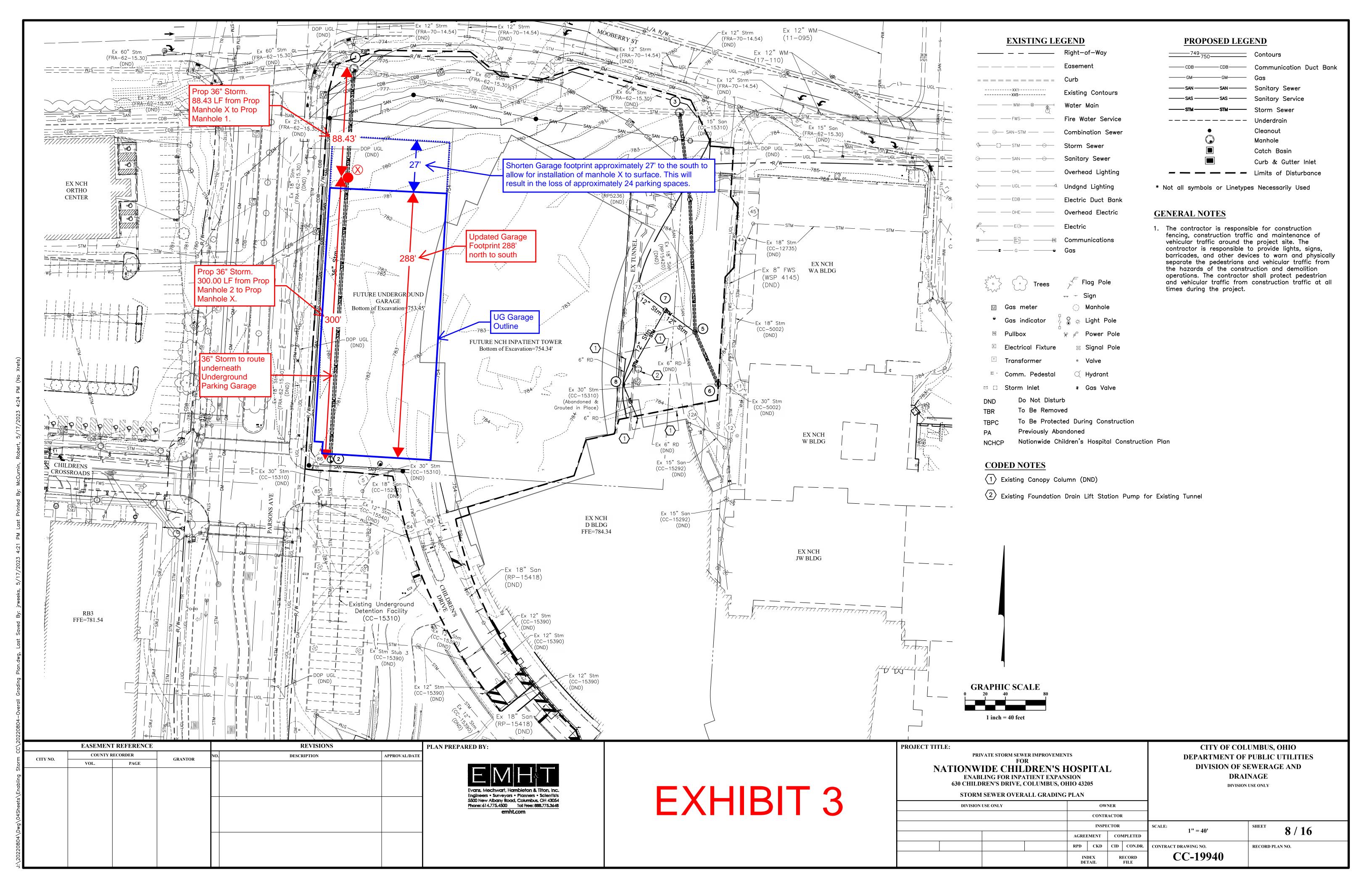
Robert McCurnin, P.E.

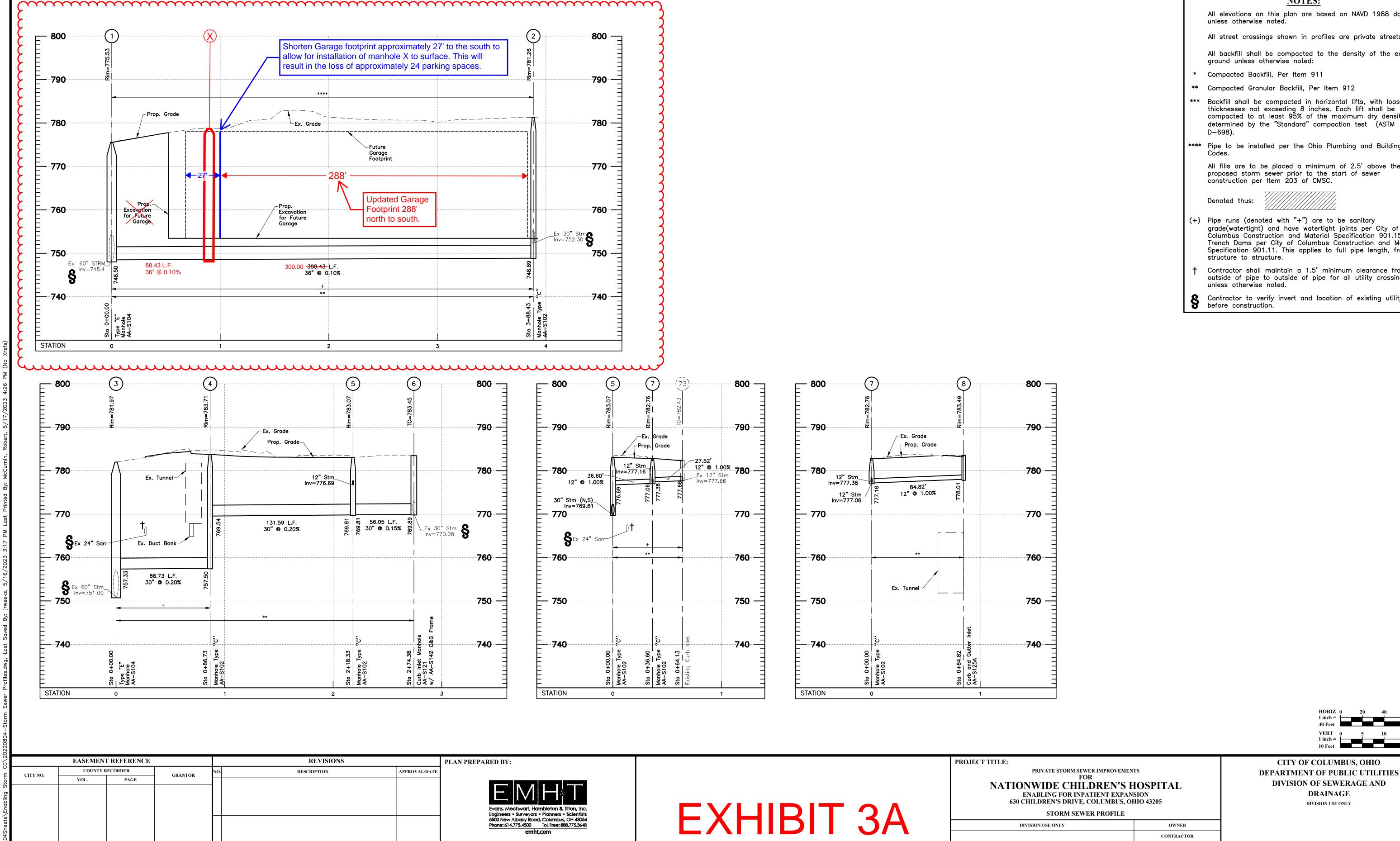












NOTES:

All elevations on this plan are based on NAVD 1988 datum,

All street crossings shown in profiles are private streets.

All backfill shall be compacted to the density of the existing ground unless otherwise noted:

- * Compacted Backfill, Per Item 911
- ** Compacted Granular Backfill, Per Item 912
- *** Backfill shall be compacted in horizontal lifts, with loose thicknesses not exceeding 8 inches. Each lift shall be compacted to at least 95% of the maximum dry density as determined by the "Standard" compaction test (ASTM
- **** Pipe to be installed per the Ohio Plumbing and Building

All fills are to be placed a minimum of 2.5' above the proposed storm sewer prior to the start of sewer construction per Item 203 of CMSC.

- (+) Pipe runs (denoted with "+") are to be sanitary grade(watertight) and have watertight joints per City of Columbus Construction and Material Specification 901.15, and Trench Dams per City of Columbus Construction and Material Specification 901.11. This applies to full pipe length, from
 - Contractor shall maintain a 1.5' minimum clearance from outside of pipe to outside of pipe for all utility crossings unless otherwise noted.
- S Contractor to verify invert and location of existing utility before construction. before construction.

12 / 16

RECORD PLAN NO.

CITY OF COLUMBUS, OHIO

DIVISION OF SEWERAGE AND

DRAINAGE

DIVISION USE ONLY

Horiz: 1'' = 40'

Vert: 1'' = 10'

CC-19940

INSPECTOR