

Sequence of Construction for the Relocation of SoCal Gas SL 41-6000-2 Pipeline and Installation of Sheet Piles and Foundation Piles



FOR:

**DOGWOOD ROAD BRIDGE REPLACEMENT OVER CENTRAL MAIN CANAL
BR. NO. 58C-0226
County of Imperial Project No. 6222**

Sequence of Construction

Introduction

Due to the ROW constraints, and as per the requirements of the Southern California Gas Company (SoCal Gas) the bridge piling operations by the Contractor is to be conducted in coordination with the relocation/replacement of the existing 6-inch diameter high pressure gas pipeline (located along the east side of the existing bridge). The gas pipeline relocation is to be constructed by SoCal Gas's contractor Snelson. See attached Exhibit A.

Clearly demonstrate in the Critical Path Method (CPM) Schedule and other submittals, to the satisfaction of the County and the Engineer, the Contractor's ability to complete the Work within the stipulated schedule.

Note:

- A representative of So. Cal Gas and Snelson is to be present at the project site throughout the duration of construction activities from 3 to 11 as noted below.
- So. Cal Gas is to monitor the existing 6-inch diameter gas pipeline via the exposed portion on a daily basis (1st thing every morning), throughout the duration of construction activities from 3 to 8 as noted below.

The following sequencing of work and clearance requirements is to be followed by the Contractor, SoCal Gas, and its contractor Snelson:

1. The Contractor shall inform the County and the Engineer (Construction Manager) a minimum of 14 days prior to commencement of piling operations (sheet piles as well as foundation piles).
2. Snelson, the contractor for SoCal Gas is to trench and expose the existing 6-inch diameter gas pipeline with a 6-foot 6-inches wide excavation on both the north and south side of the existing Dogwood Bridge. The trench walls are to be shored and supported by Snelson, in accordance with OSHA

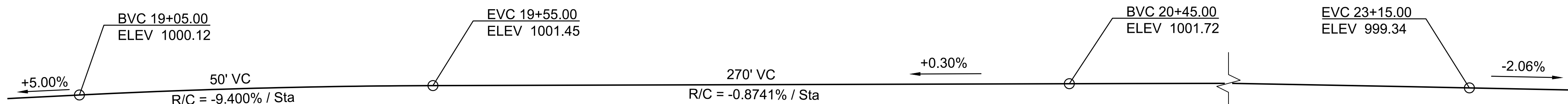
and SoCal Gas requirements throughout the time the trench is exposed. See attached Exhibit B. Snelson to seal the joints on both sides of the existing pipeline at the existing wingwall to prevent leakage of canal water, onto the embankment.

3. The Contractor shall install sheet piling on the east side of the bridge, on both the north and south part of existing bridge, up to edge of proposed abutment footing. As noted in blue per attached Exhibit C.
4. The Contractor shall install flat sheet piling on both the north and south of the bridge, up to the edge of the trench of the existing gas pipeline. As noted in brown per attached Exhibit D. The flat sheet piling shall be properly connected to the other sheet piling.
5. The Contractor shall predrill the nearest three (3) abutment piles, from the existing gas pipeline on both the north and south sides of the bridge. The piles are to be predrilled to -15 feet depth below the existing grade. As noted in green per attached Exhibit E.
6. The Contractor shall drive the steel shells for the nearest three (3) predrilled abutment piles from the existing gas pipeline on both the north and south sides of the bridge. The three (3) steel shells are to be driven to their design tip elevation. As noted in green per attached Exhibit F.
7. Snelson is to conduct Horizontal Direction Drilling (HDD) underneath the sheet piling on the east side of the bridge for the new gas pipeline. See attached Exhibit G.
8. Snelson and SoCal Gas to conduct tie-in of the new 6-inch gas pipeline to existing 6-inch gas pipeline on both the north and south side of the bridge.
9. Snelson and SoCal Gas to purge and remove the existing gas pipeline at the bridge.

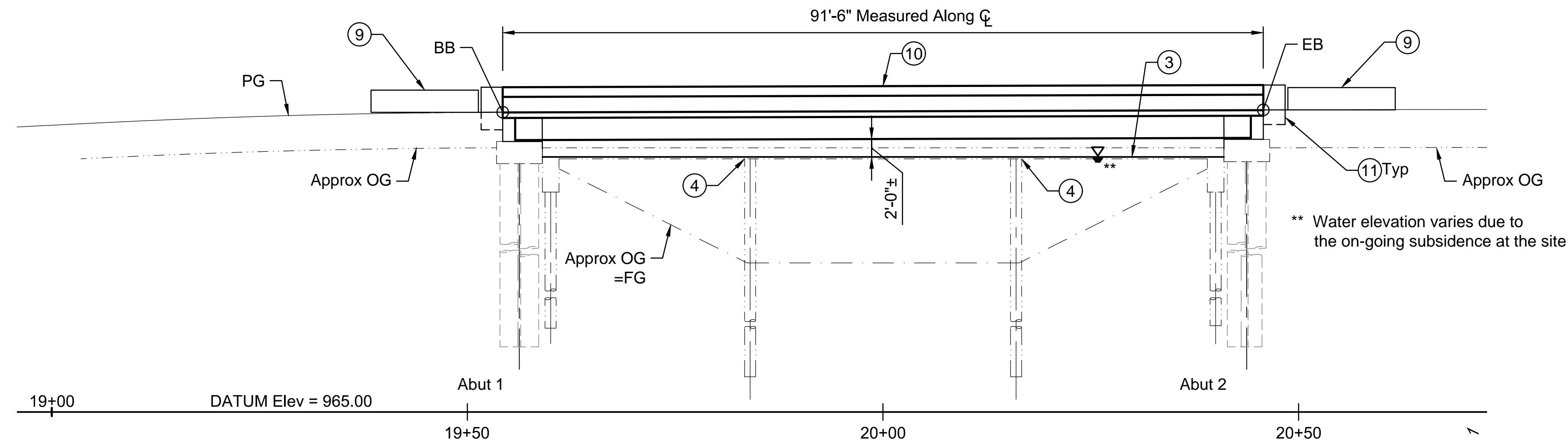
As per Snelson the installation of the new gas pipeline would take about 42 working days to be completed, including tie-in of the new gas pipeline to the existing gas pipeline at both ends, and removal of the existing gas pipeline. The 42 working days account for weekdays and exclude weekends and holidays. All open trenches must be securely closed during non-construction operations.

10. Contractor is to install the remaining sheet piles, flat piles along the west side of the bridge, while Snelson installs the new gas pipeline along the east side of the bridge. Contractor is to also complete installation of the remaining caisson piles, while Snelson installs the new gas pipeline along the east side of the bridge.
11. Contractor is to install the remaining flat piles along the east side of the bridge after the removal of the existing gas pipeline. See attached Exhibit H.
12. Contractor is to demolish the existing bridge deck per the approved demolition sequence, and install the new bridge.

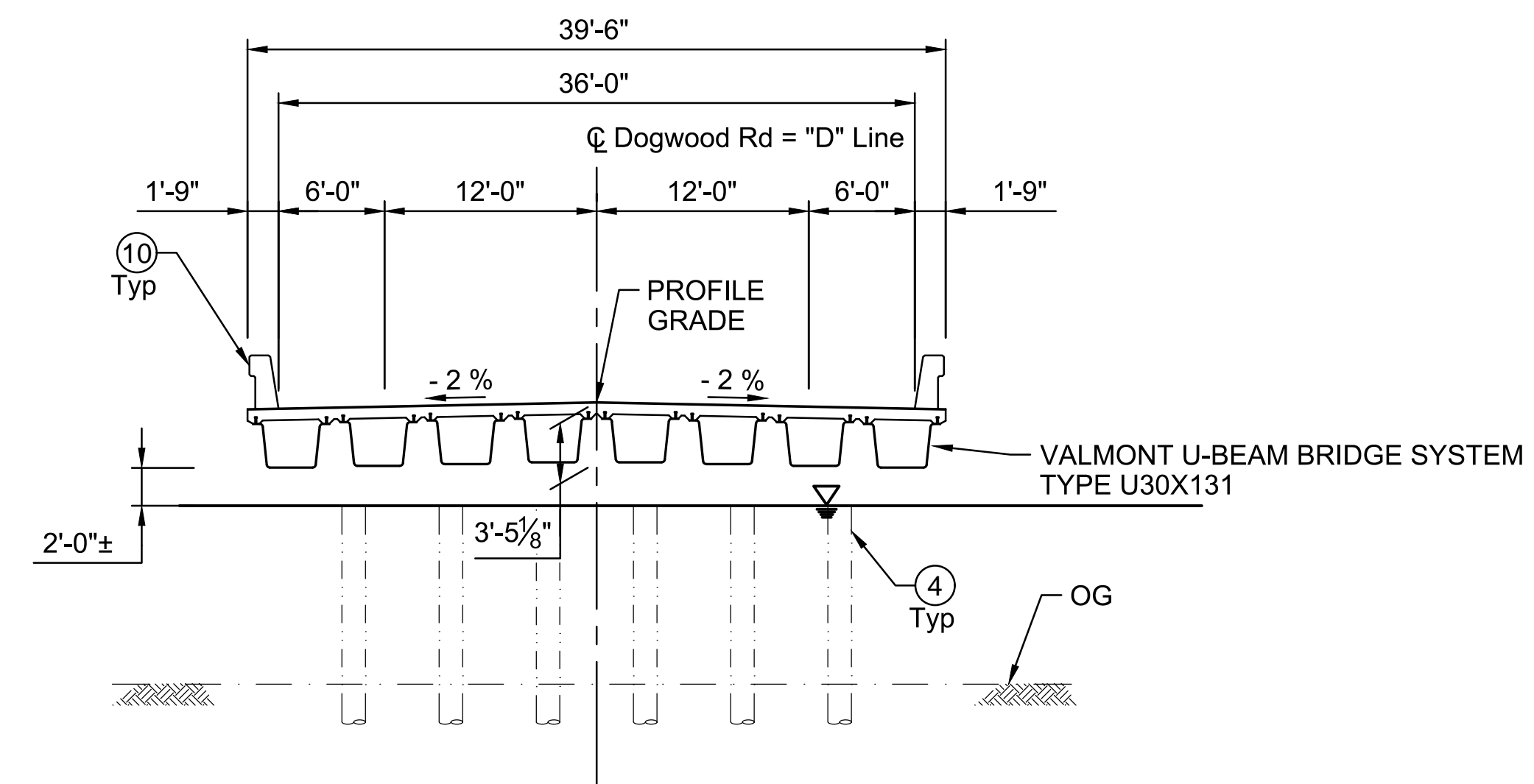
The listing of sequencing above does not indicate or imply that all constraints or special conditions have been identified. The list is not a substitute for the duty of the Contractor to coordinate and plan for completion of all work by the Substantial/Contract Completion Dates specified in the Contract Documents. The Contractor is responsible for all coordination and scheduling with the So. Cal Gas and Snelson during the construction phase. Some of the other items of work may be constructed (but not Substantially Complete) simultaneously, or ahead of the identified sequencing work, as long as it does not interfere with the integrity of the existing gas line. The Engineer is not responsible for scheduling the Contractor's work.



PROFILE GRADE
NO SCALE



ELEVATION
SCALE 1" = 10'



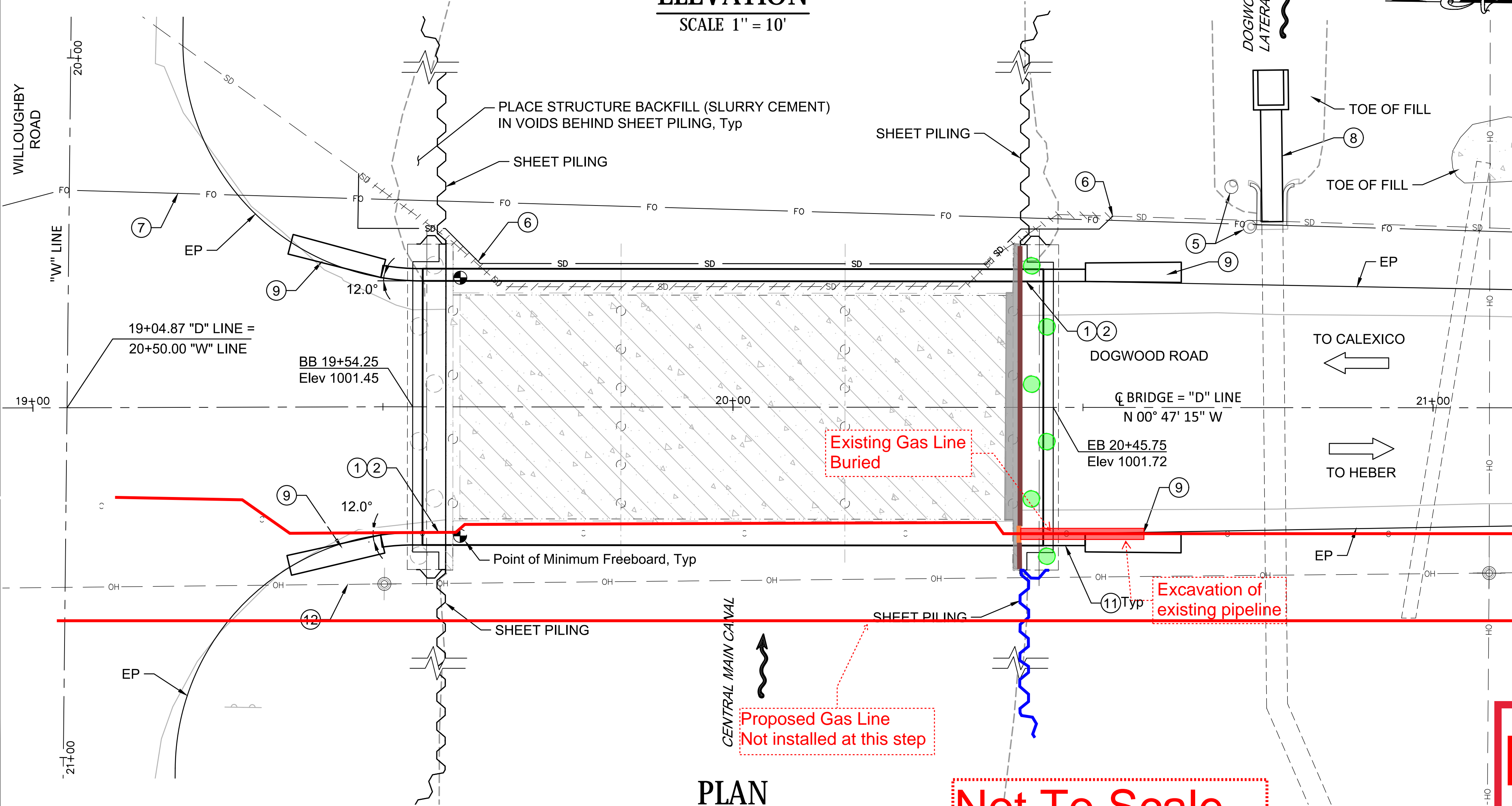
TYPICAL SECTION
SCALE 1/8" = 1'-0"

LEGEND

- ← Direction of Traffic
- Direction of Flow of Water
- - - Existing Structure
- ▨ Limits of Bridge Removal
- - - FO Fiber Optic Cable in 4" Steel Duct
- - - G 6" High Pressure Gas Line To Be Relocated By Others
- - - OH Overhead Electrical/Telephone Facilities
- - - SD Private Drain Line
- ⊙ Power Pole
- Point of Minimum Freeboard

NOTES

- ① Paint "BRIDGE NUMBER: 58C-XXXX"
- ② Paint "DOGWOOD ROAD BRIDGE"
- ③ High Water Surface Elevation = 995.7 ± **
- ④ Cutoff Existing Piles at water line
- ⑤ Existing Bollards
- ⑥ Private Storm Drain Line to be relocated By Others
- ⑦ Existing AT&T Fiber Optic Cable in 4" Steel Duct to be Relocated By Others
- ⑧ Existing Culverts To Be Extended By Others As Necessary
- ⑨ TL-2 Crash Cushion, See Roadway Plans
- ⑩ Concrete Barrier Type 836
- ⑪ Concrete Barrier Type 836B, See Roadway Plans
- ⑫ OH Line to be relocated By Others



PLAN
SCALE 1" = 10'

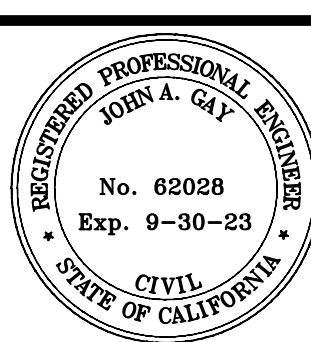
Not To Scale

EXHIBIT A

REVISION	DATE	COMMENTS



PREPARED UNDER THE DIRECT SUPERVISION OF:
 Daniel Sun, P.E.
 No. 40064
 R.C.E. No.
 12/30/21
 REG. EXP.



COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT
 APPROVED FOR CONSTRUCTION BY:
 John A. Gay, P.E.
 ROAD COMMISSIONER
 No. 62028
 R.C.E. No.
 9/30/23
 REG. EXP.

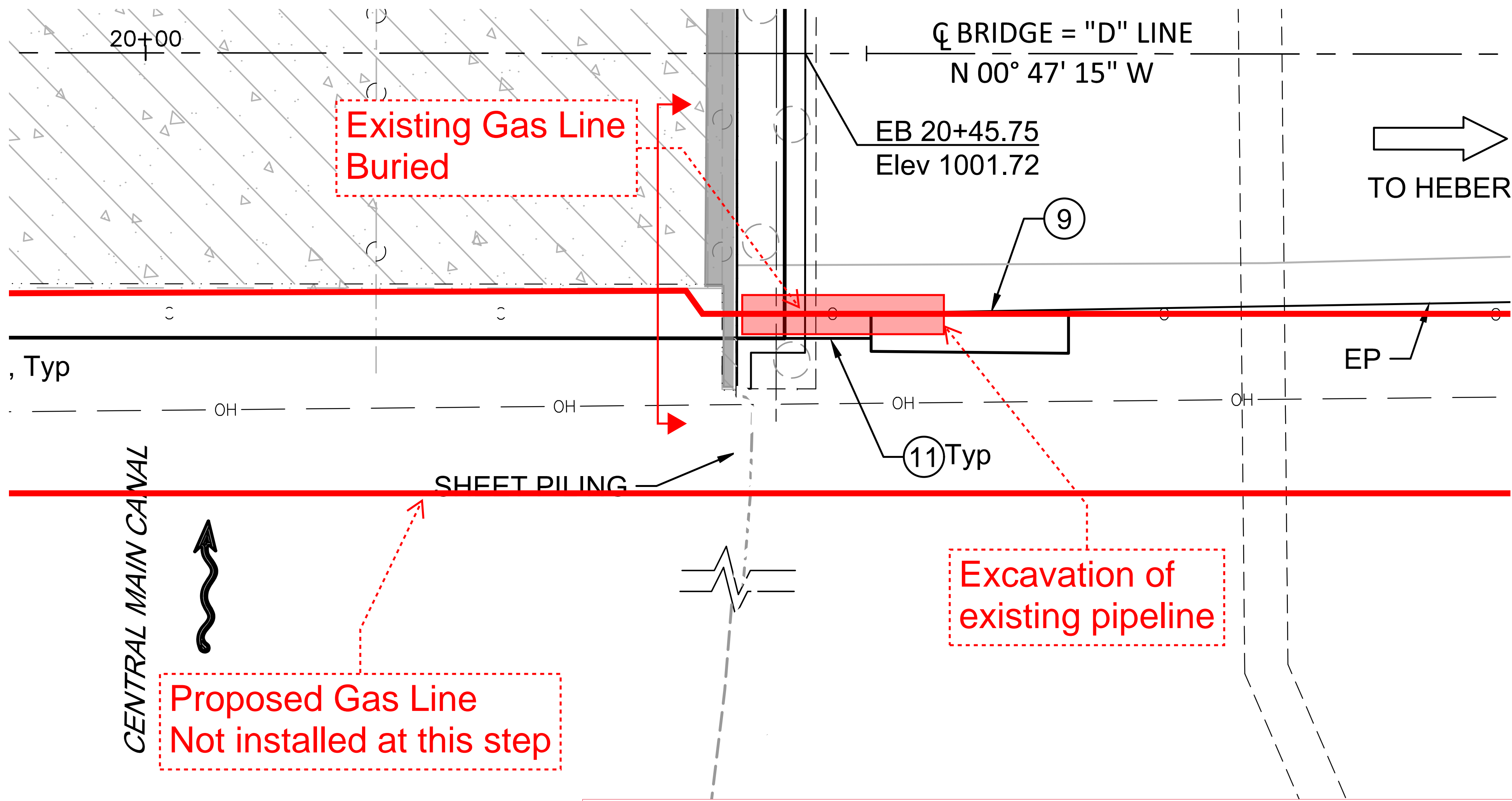
PUBLIC WORKS DEPARTMENT
 COUNTY OF IMPERIAL
 EL CENTRO, CALIFORNIA

DATE: 11/9/2021
 DRAWN: SRD
 SCALE: AS SHOWN
 CHECKED: CDS

**DOGWOOD ROAD BRIDGE REPLACEMENT
 OVER CENTRAL MAIN CANAL
 BRIDGE NO. 58C-XXXX**

GENERAL PLAN	
REFERENCE	SHEET OF
S-1	10 18

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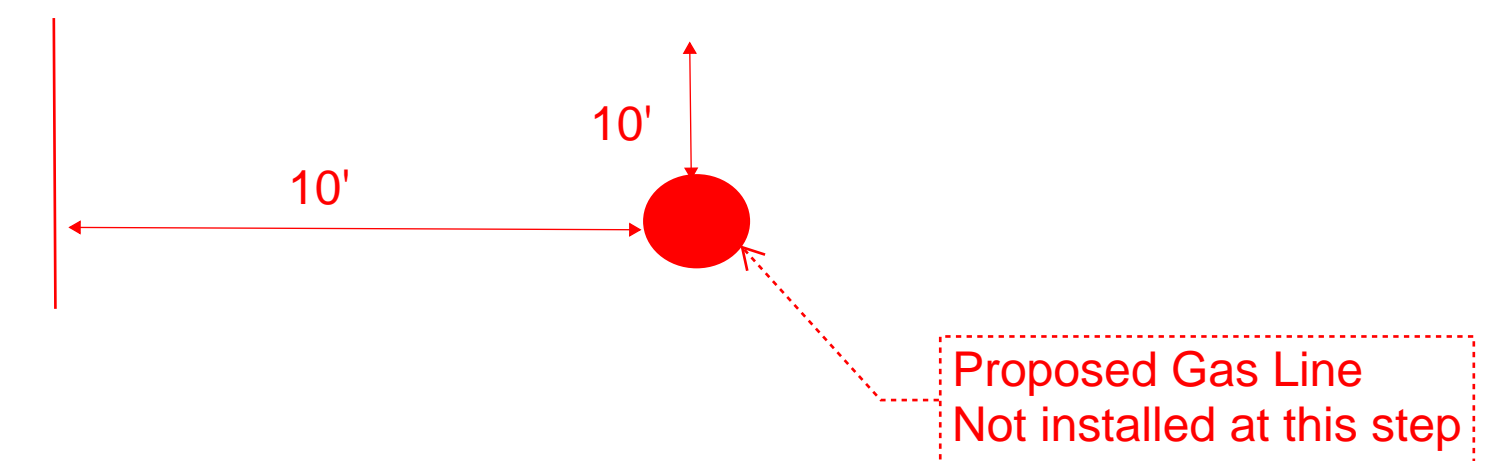
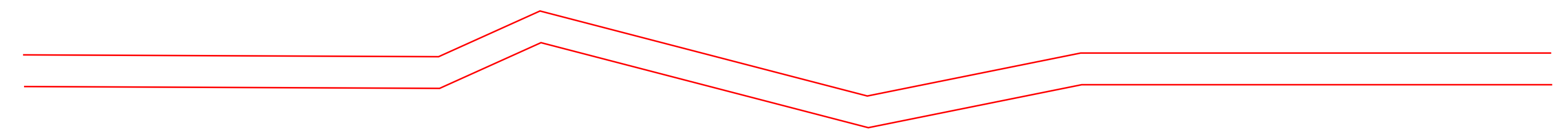


PLAN

SCALE 1" = 10'

NOT TO SCALE

EXHIBIT B



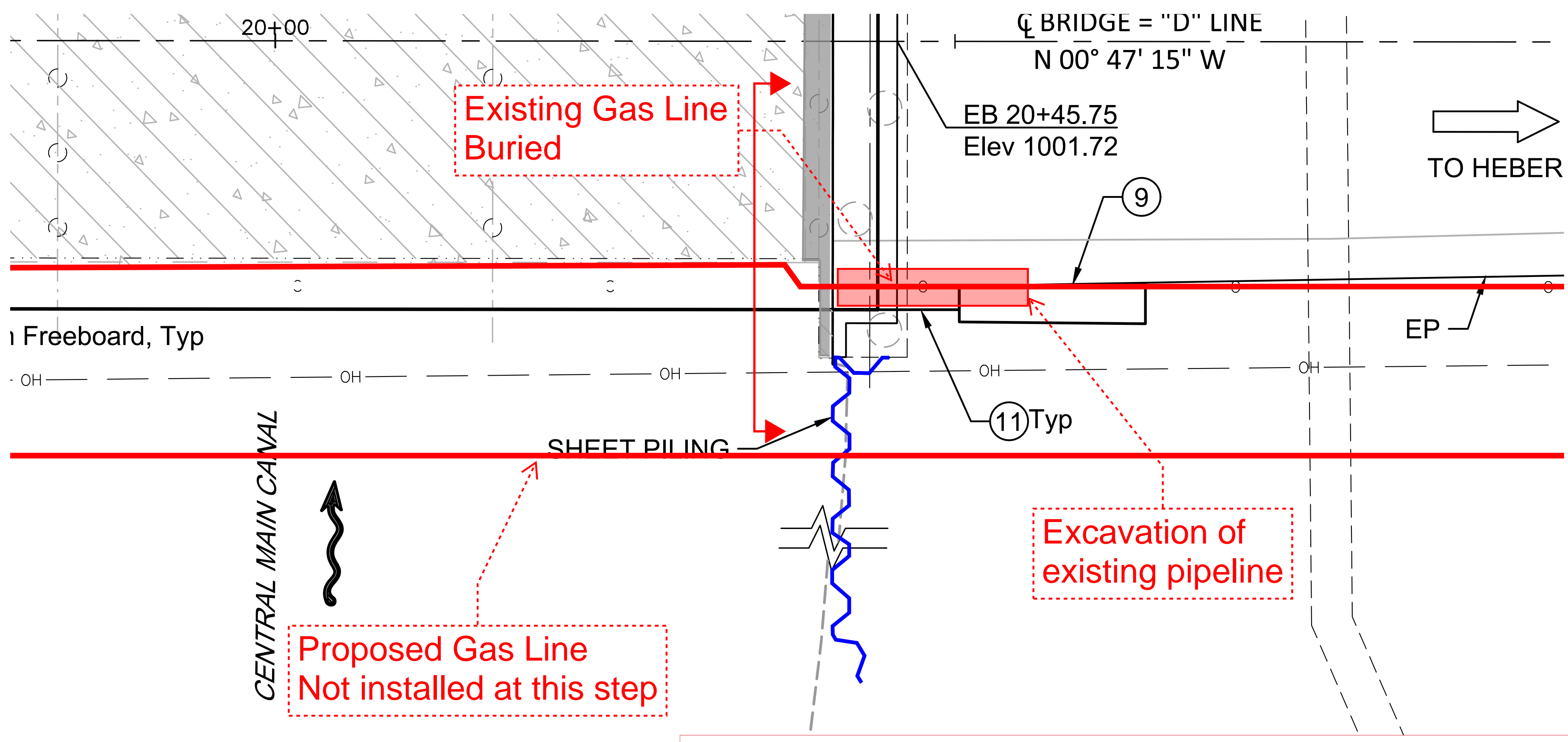
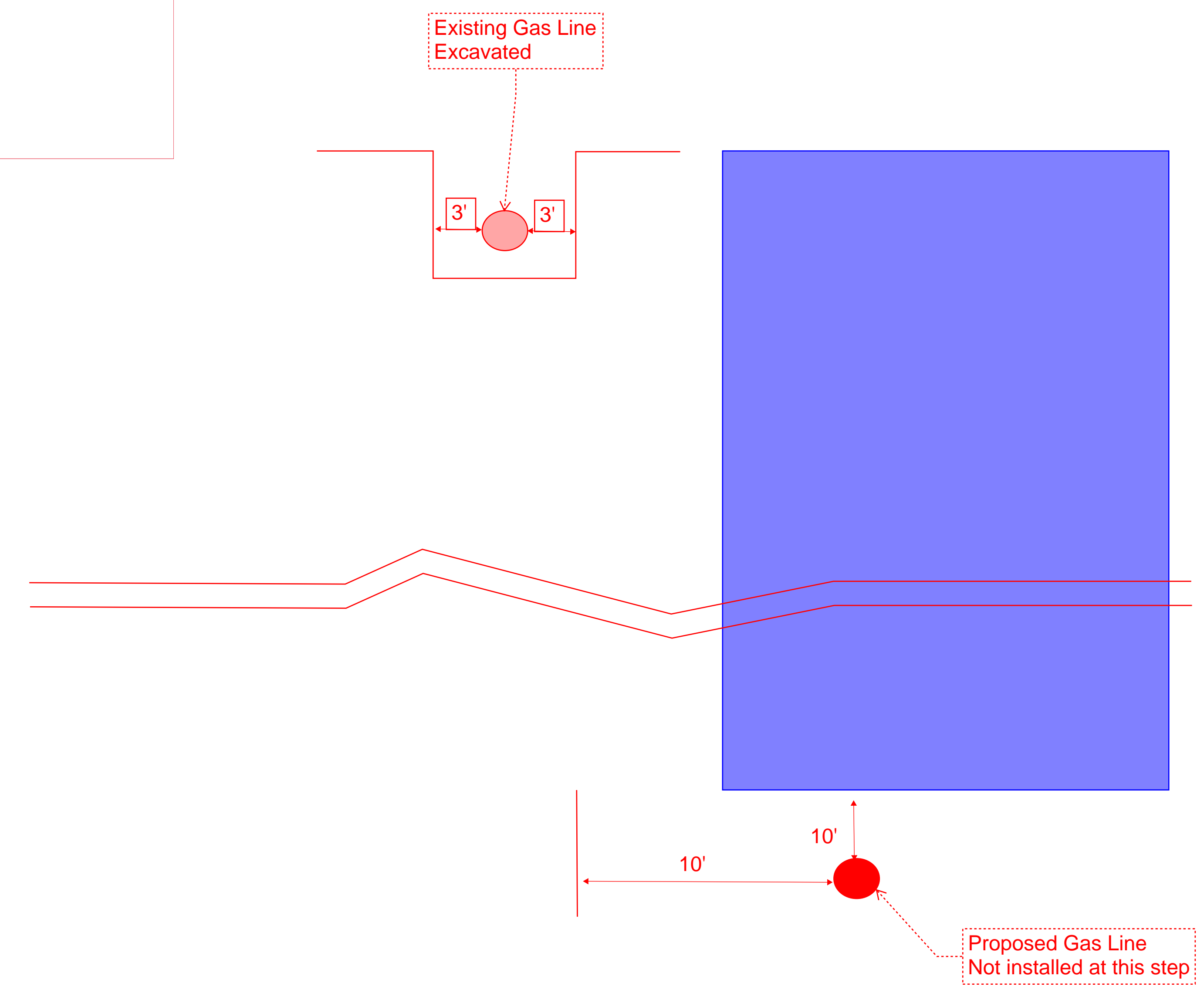


EXHIBIT C

NOT TO SCALE

PLAN
SCALE 1" = 10'



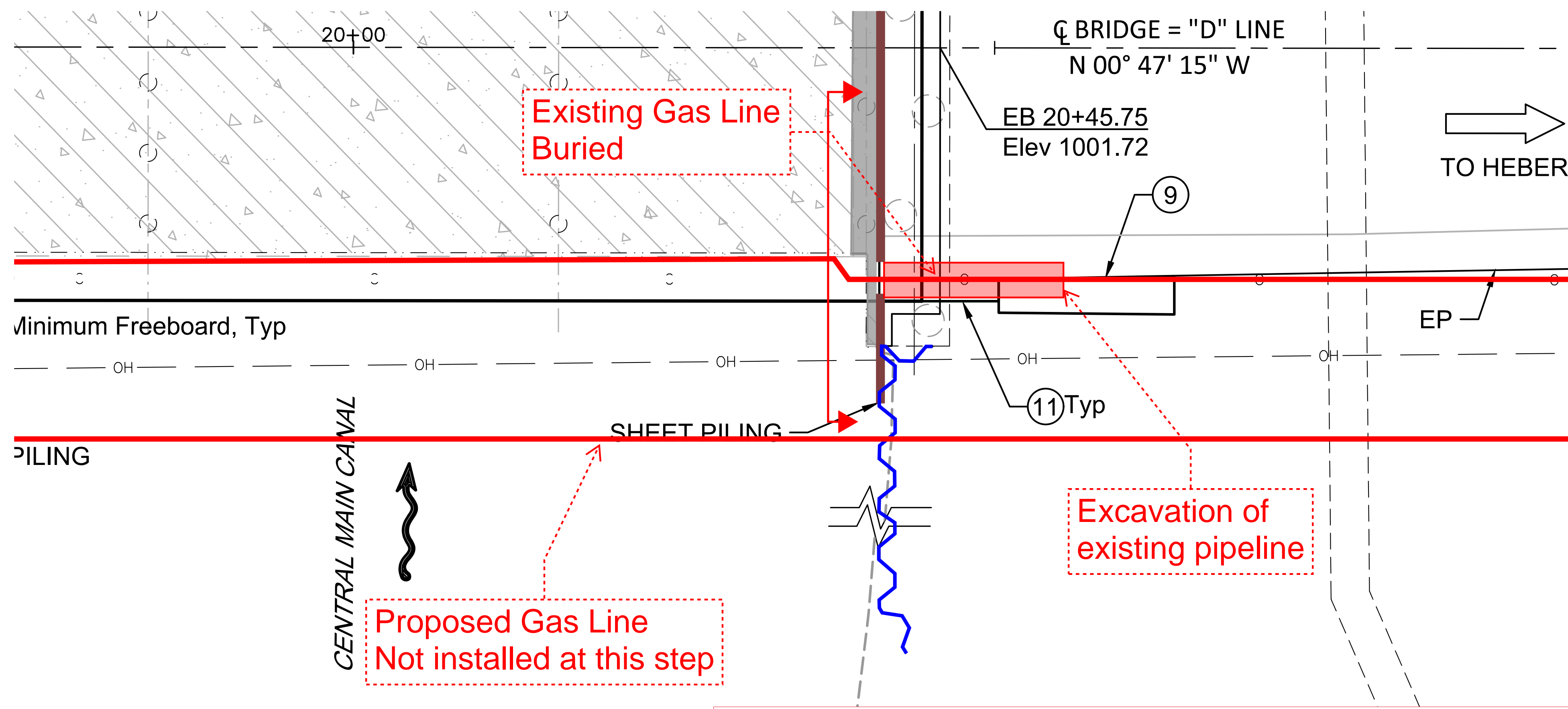
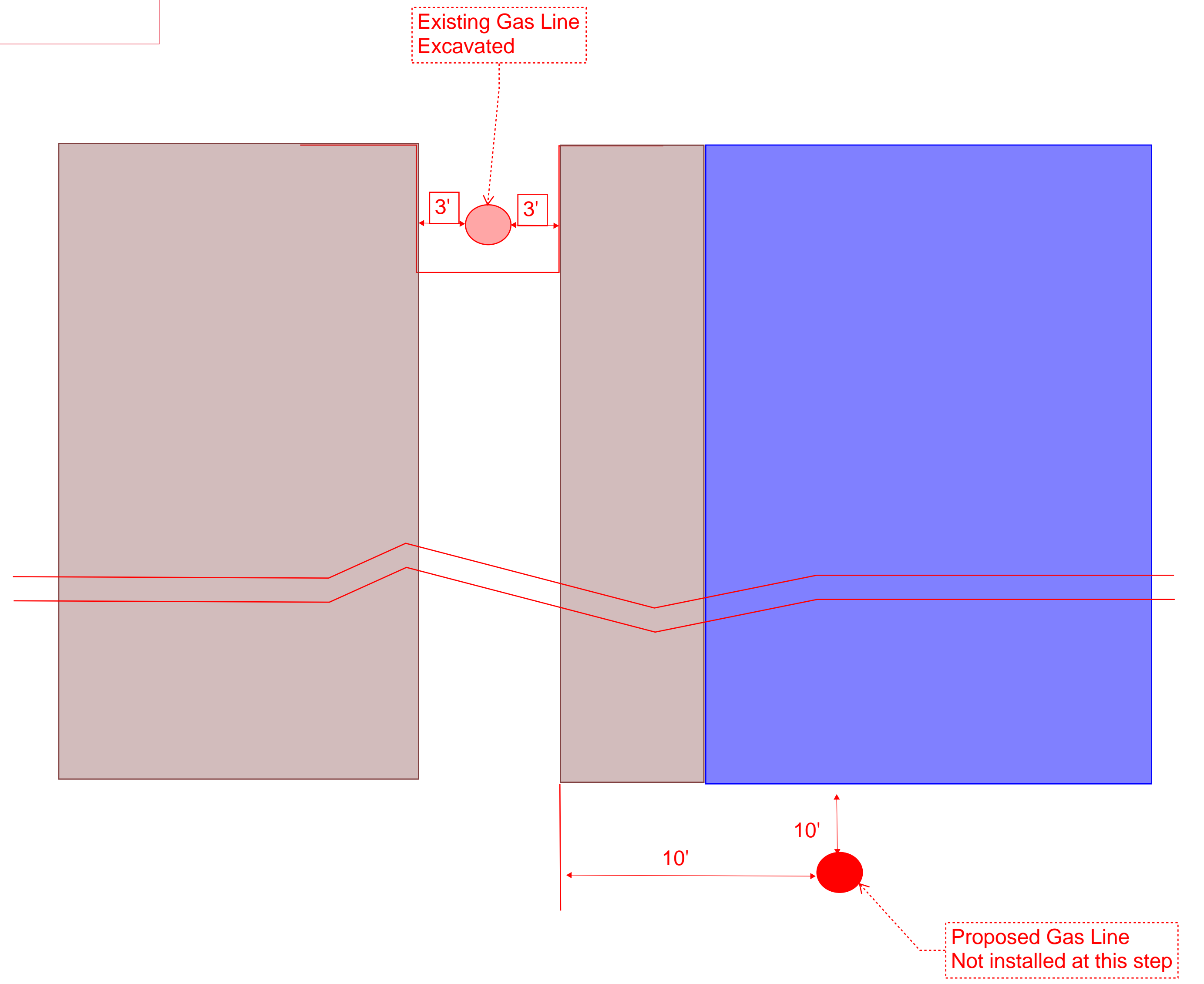


EXHIBIT D

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PLAN
SCALE 1" = 10'



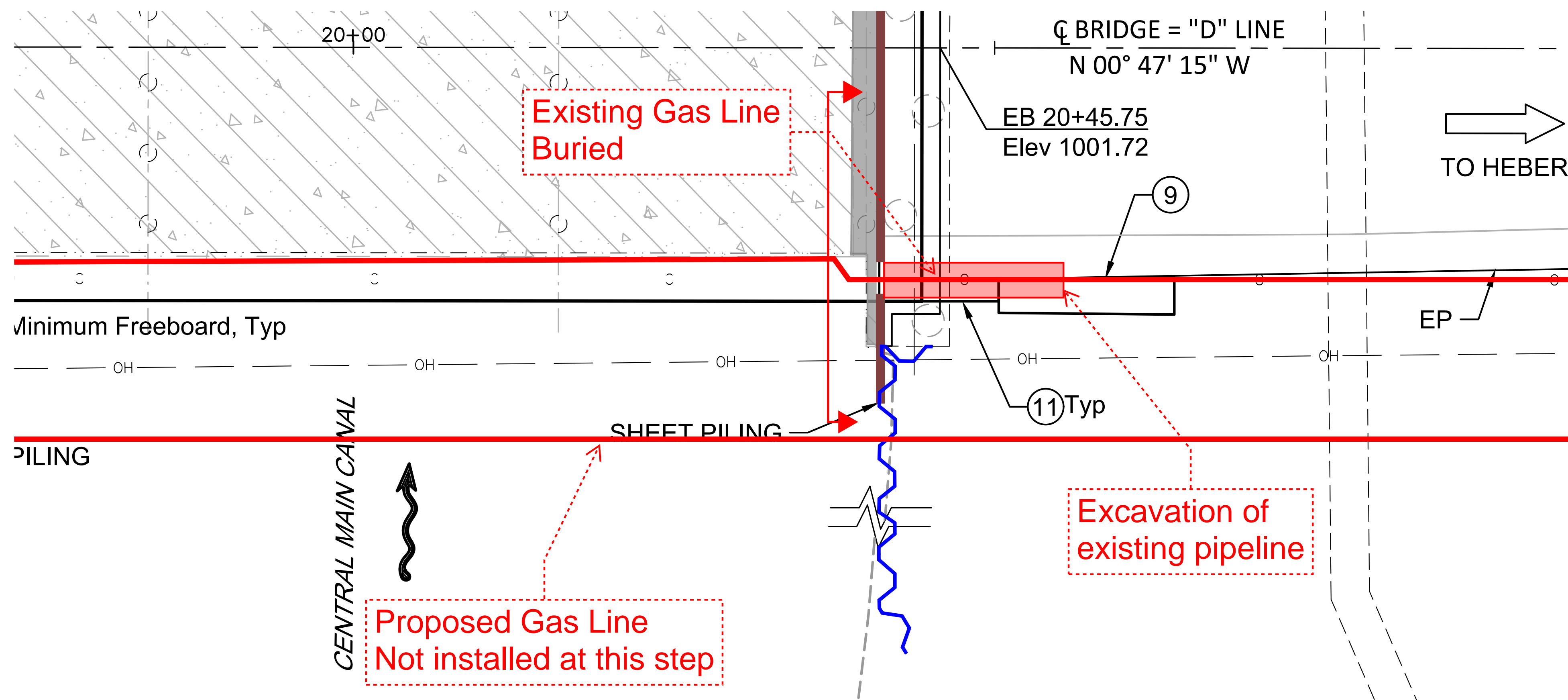
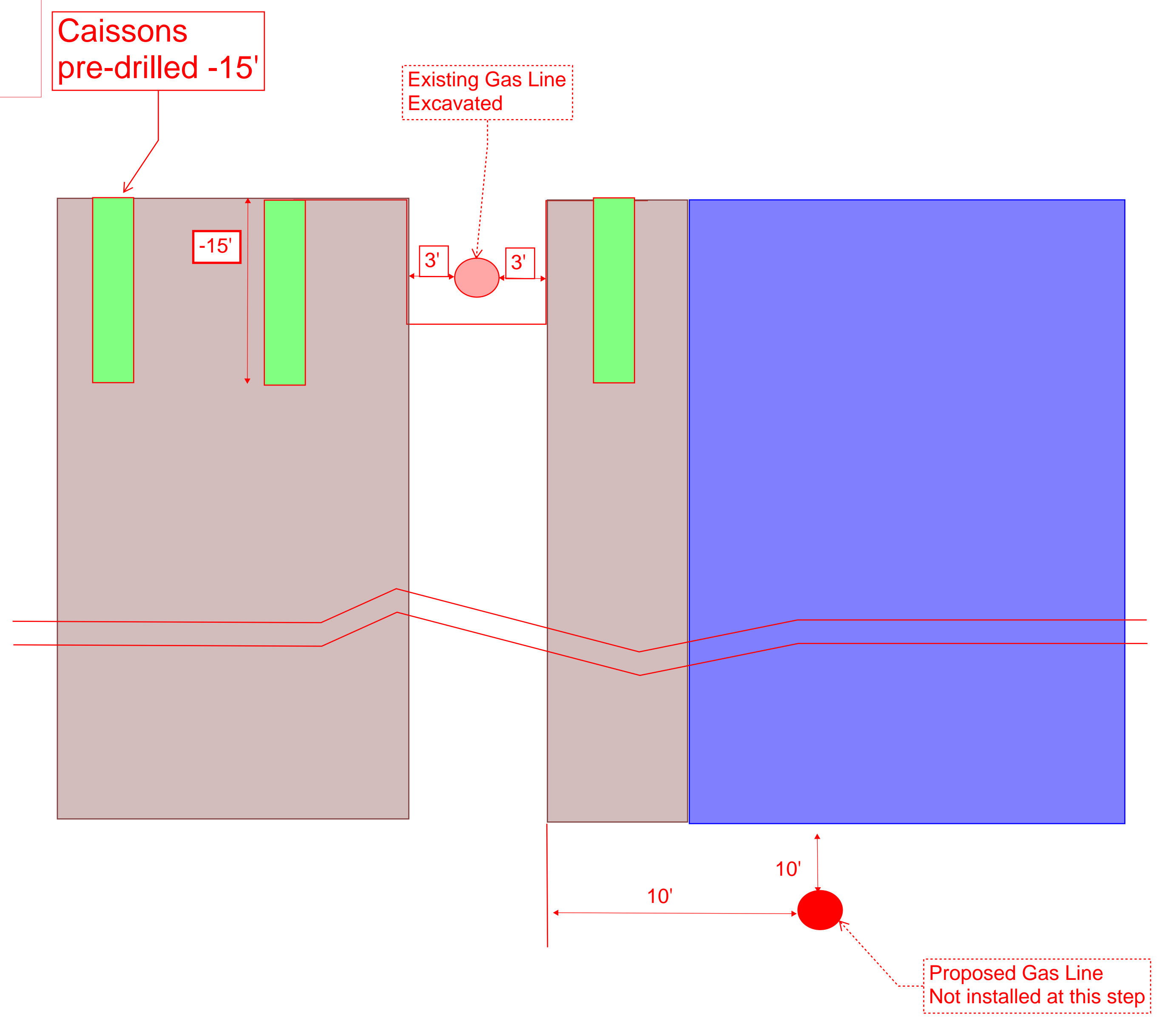


EXHIBIT E

PLAN
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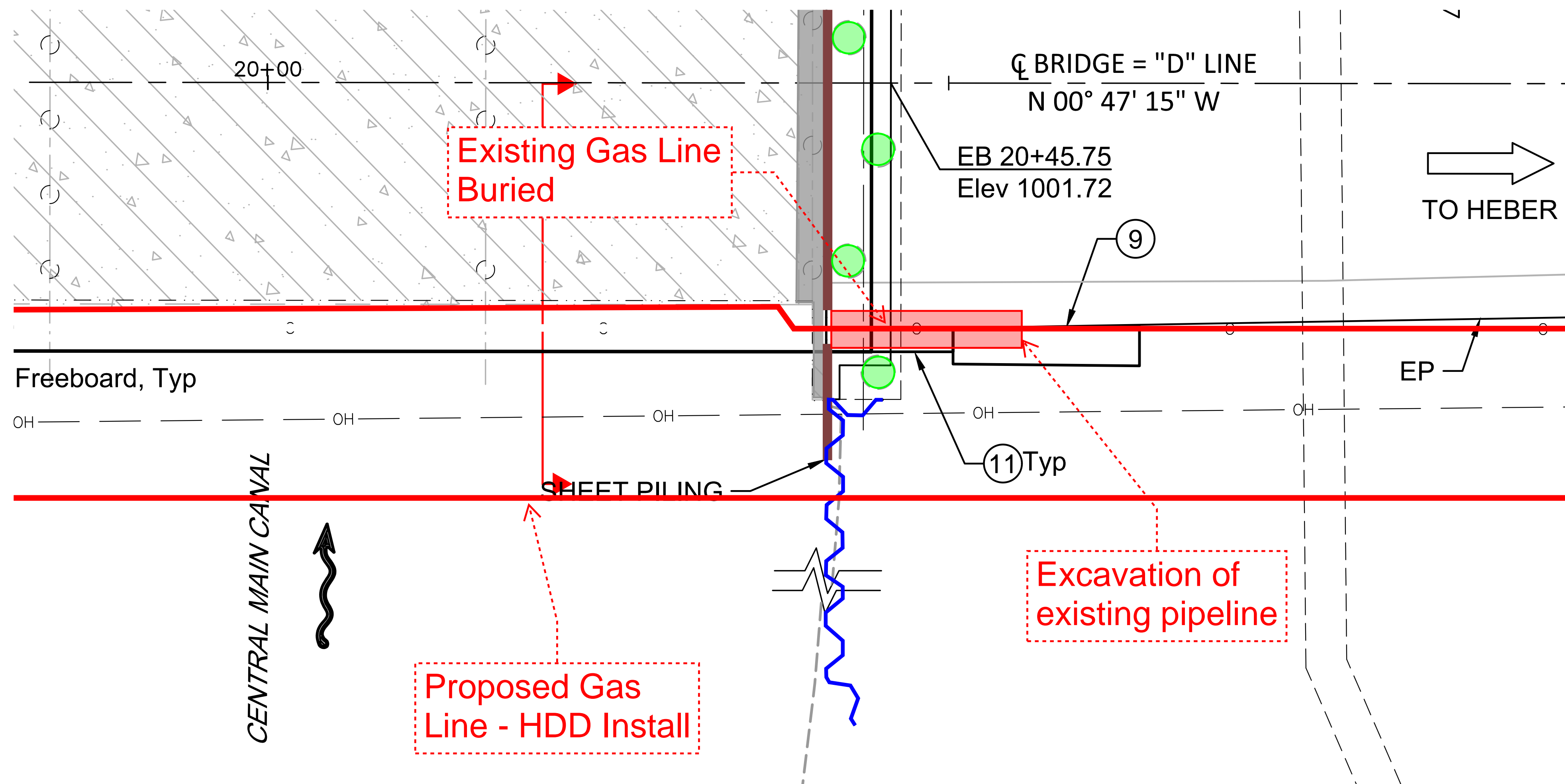
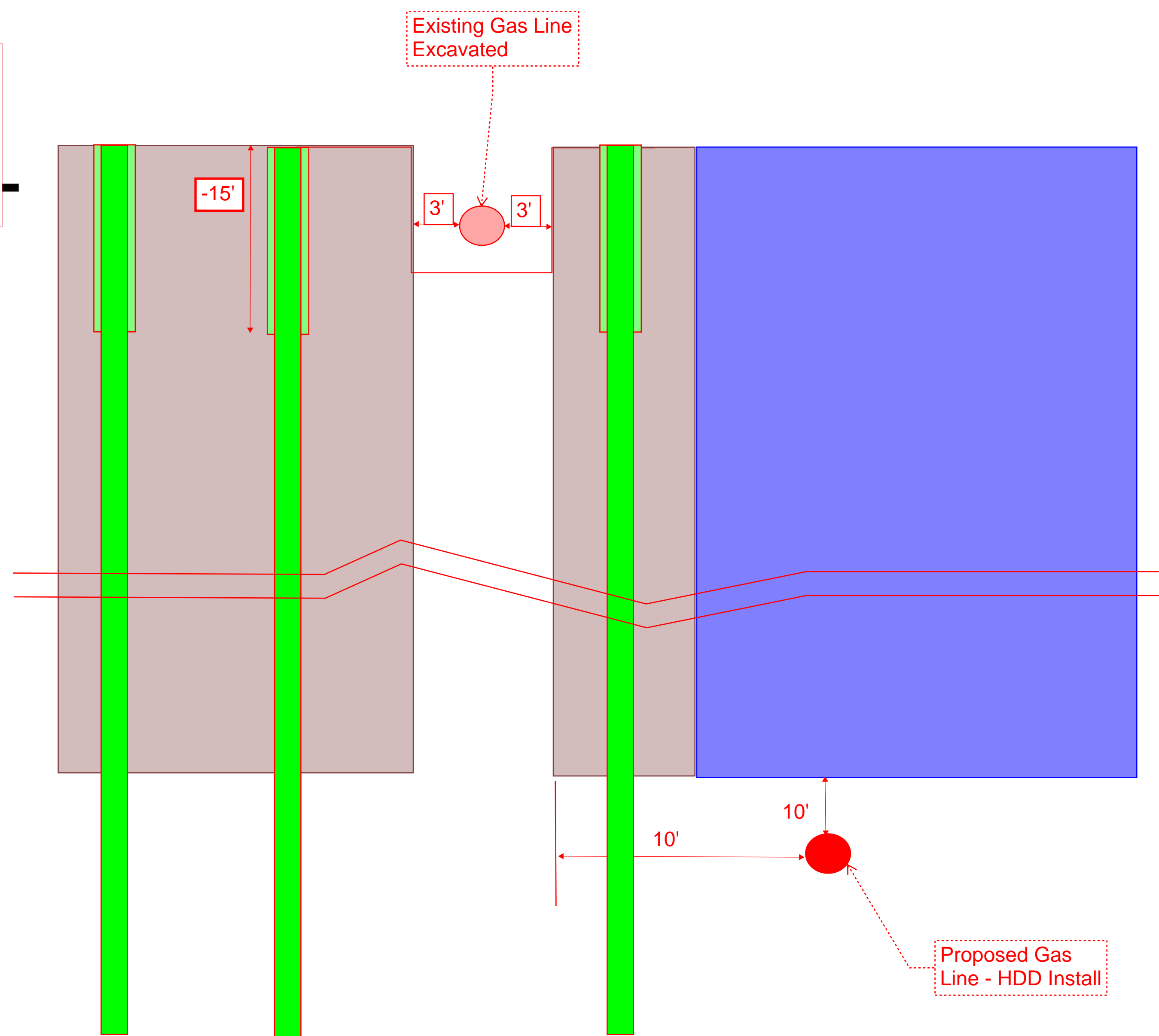


EXHIBIT F



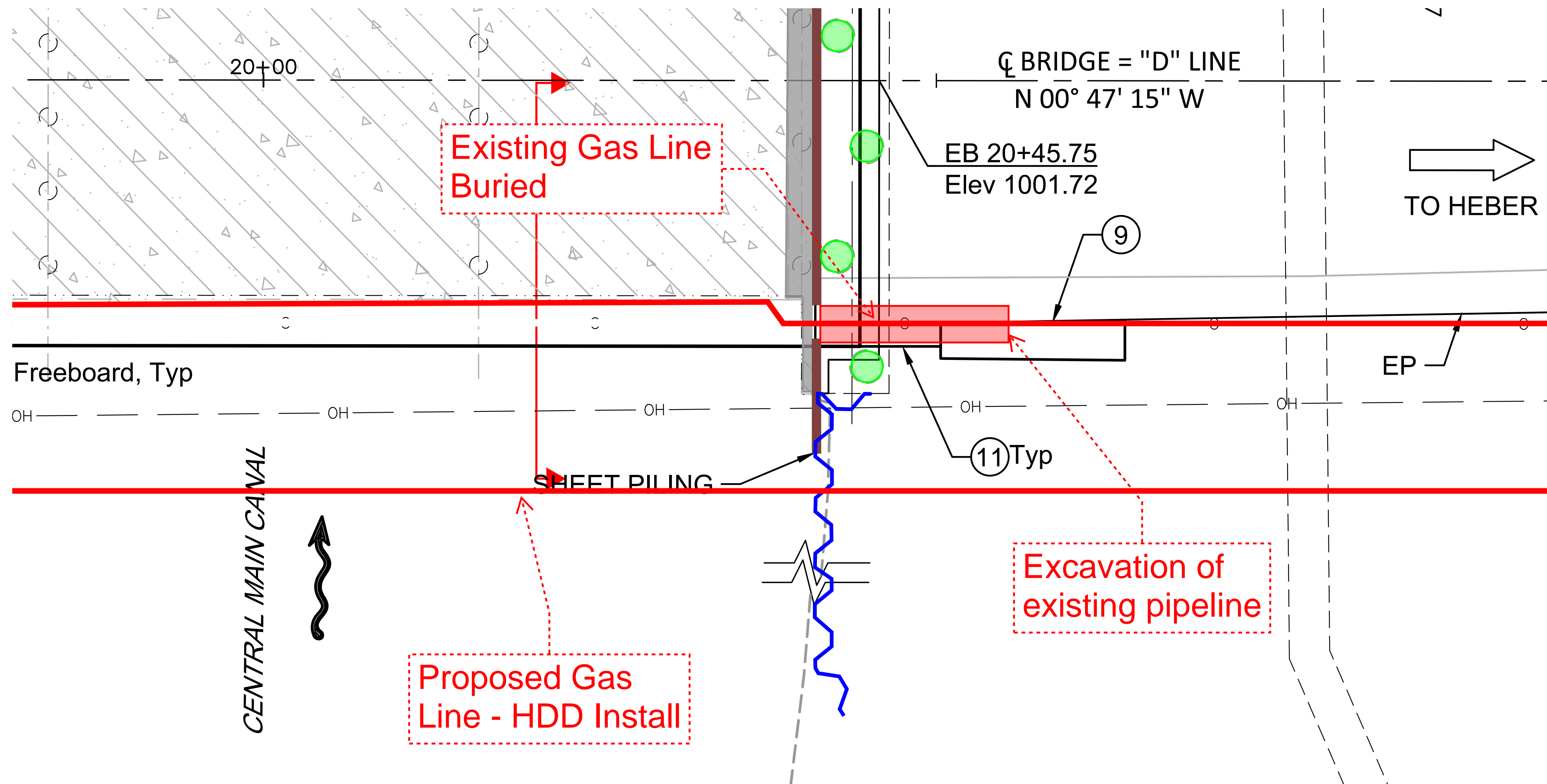
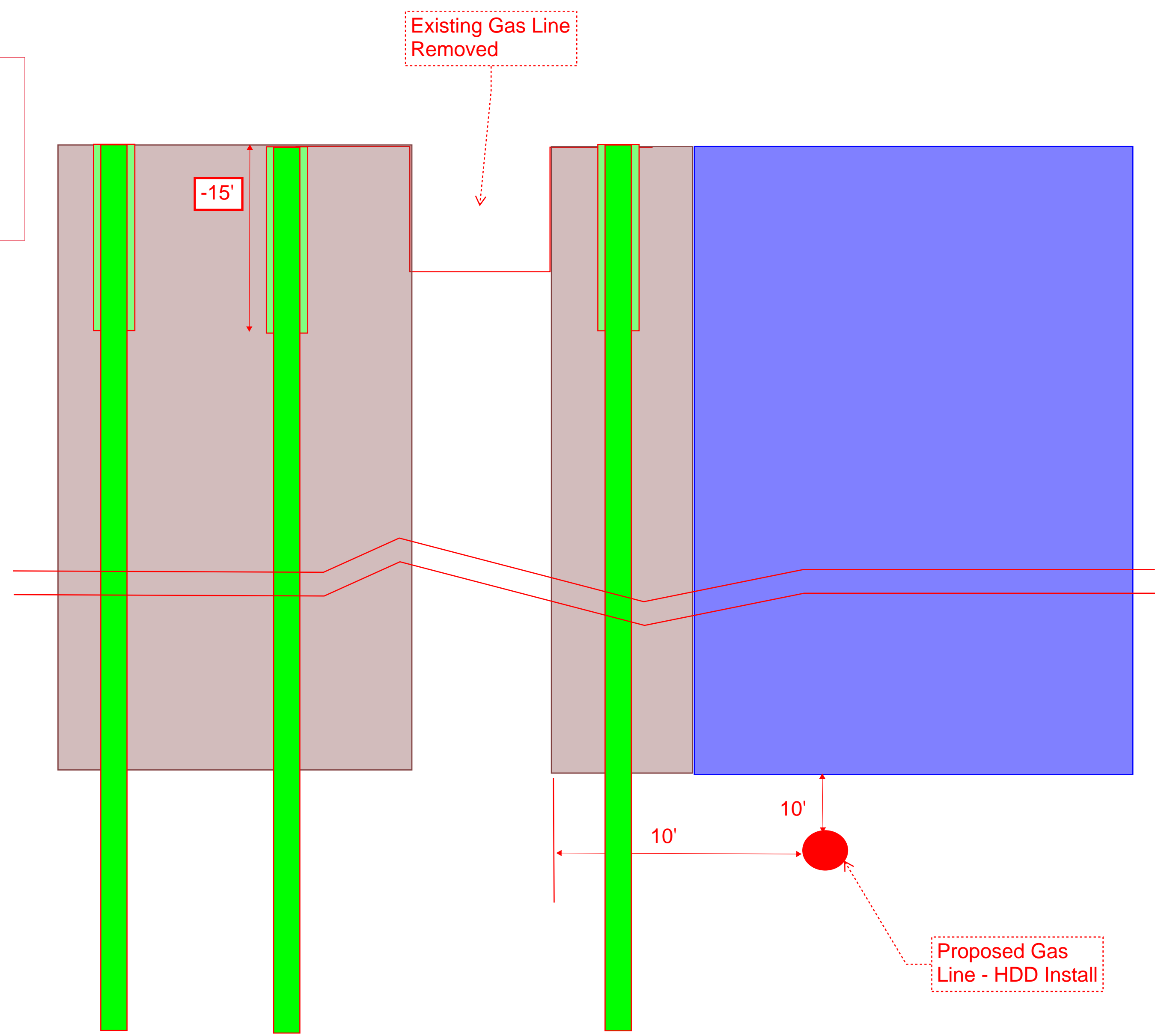
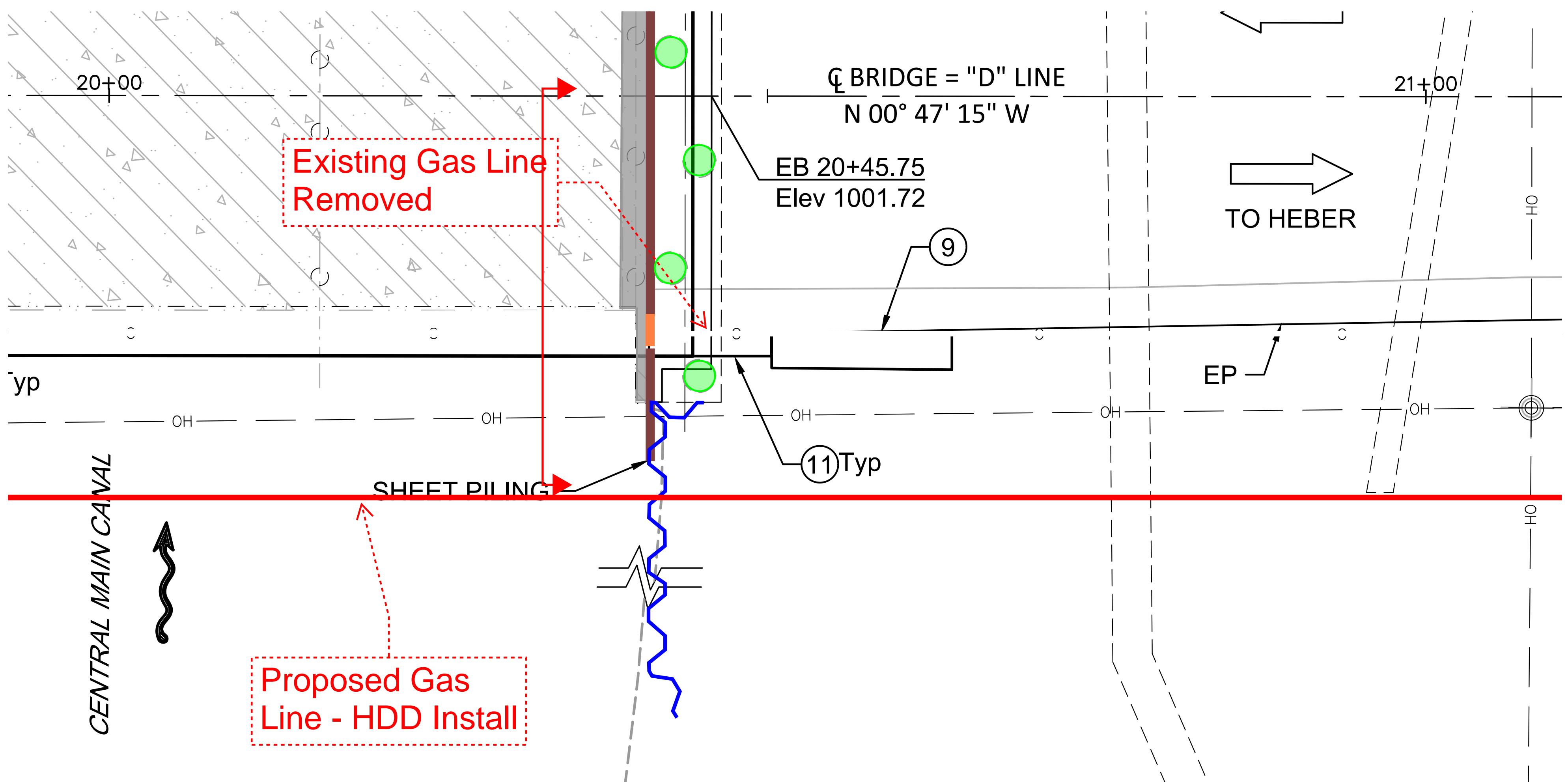


EXHIBIT G

PLAN
SCALE 1" = 10'

NOT TO SCALE





NOT TO SCALE

EXHIBIT H

