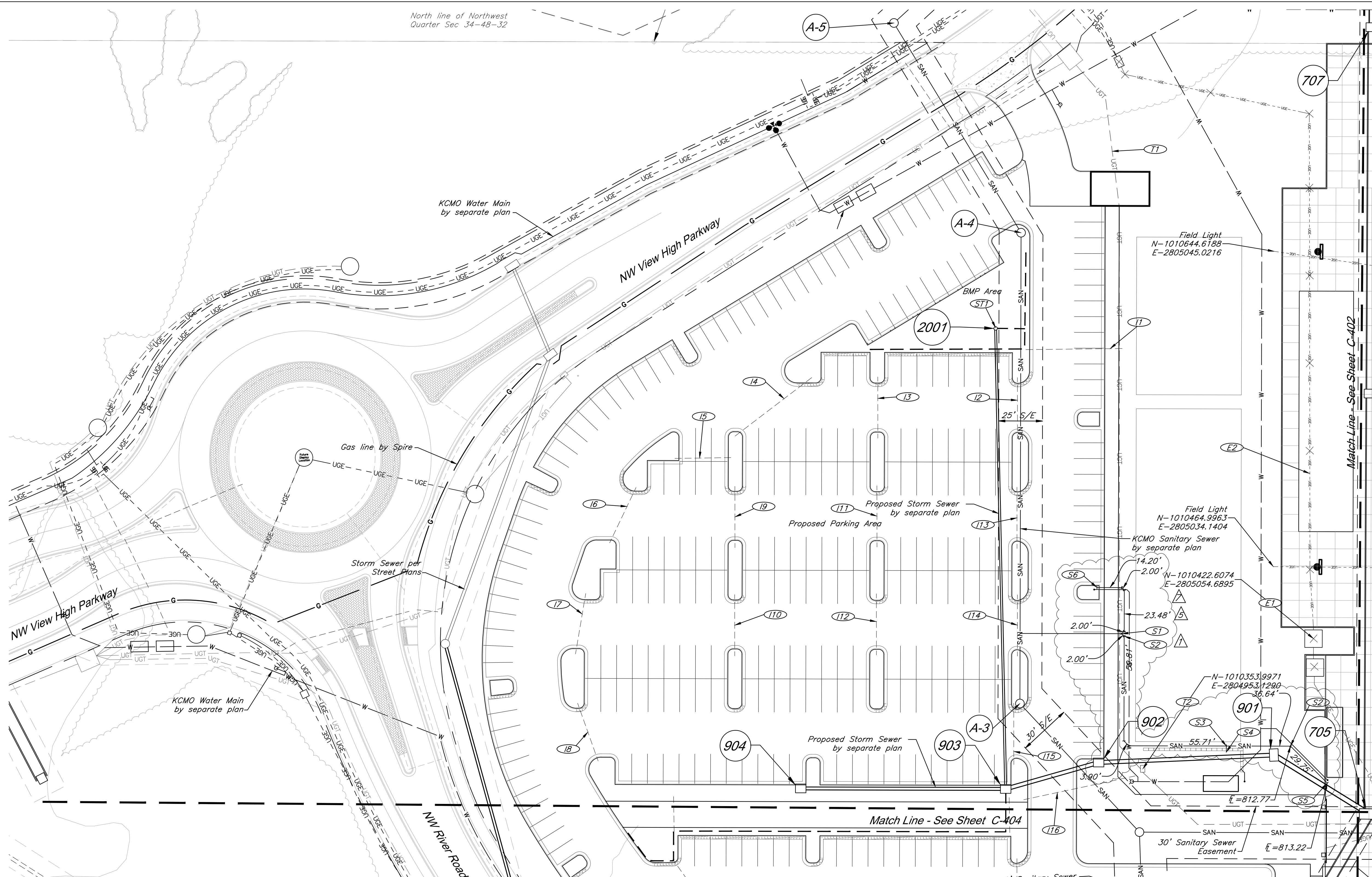


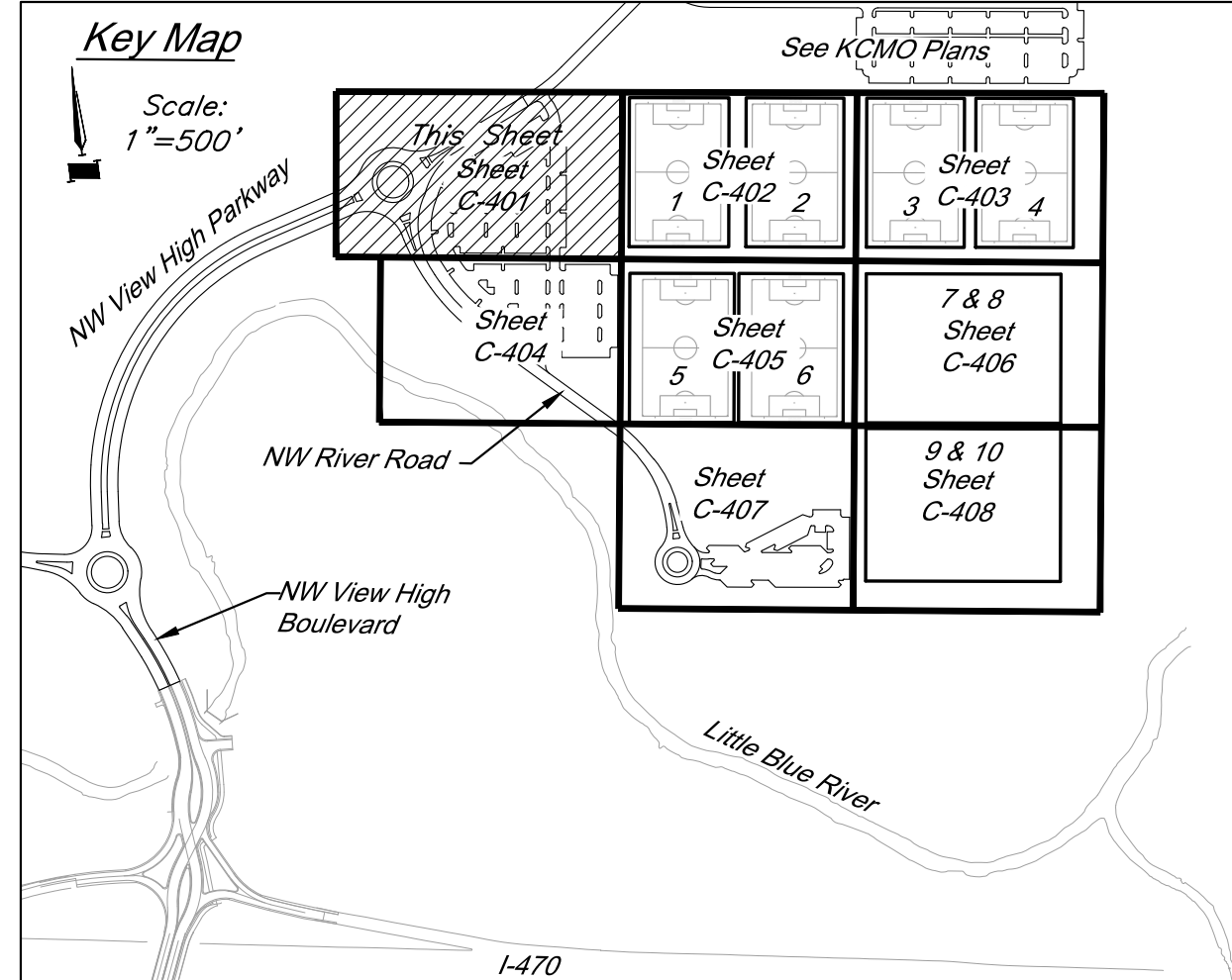
G:\12220\Civil\_3D\Production Drawings\Construction Site Plans\12220C0401.dwg Layout: C-401 Utility Plan -- Tuesday, April 04, 2023, 8:57am -- Copyright 2023, George Butler Associates, Inc.



**CAUTION!**  
Numerous Utilities on site. Contractor  
to verify location and elevation of all  
utilities prior to commencing  
construction.

- Notes:**
1. See MEP Plans for Field Lighting.
  2. Electrical trench, conduit, and backfill per Every Standards (Typ. All). See Sheet C-503 for details.
  3. Provide 30"x48" pre-formed polymer concrete hand hole, provide open bottom with pea gravel. Provide ANSI tire rating for traffic requirements at location. Provide quazite PG3048-Series or equivalent.
  4. 2" Innerduct - Maxcell MXE52224 or equal
  5. See Sheets C-409-C-411 for Water Construction Notes
  6. See "Paragon Star Soccer Complex Field Storm Sewer" Plans for Storm Sewer Details.
  7. See "Sanitary Sewer Plans for Paragon Star Development" for sanitary sewer details.
  8. All irrigation sleeves to be 4" Schedule 40 PVC.

**Note:** See Sheets C-500-C-507 for construction / utility details.



**Irrigation Sleeve Lengths**

| Sleeve # | Length (FT) |
|----------|-------------|
| 11       | 55          |
| 12       | 35          |
| 13       | 35          |
| 14       | 55          |
| 15       | 32          |
| 16       | 35          |
| 17       | 35          |
| 18       | 35          |
| 19       | 35          |
| 110      | 35          |
| 111      | 35          |
| 112      | 35          |
| 113      | 35          |
| 114      | 35          |
| 115      | 35          |
| 116      | 65          |

**Electrical Construction Notes:**

- (E1) Construct Three-Phase Transformer Pad per Every Detail 700-104.
- (E2) Install 404 LF 4" PVC Conduit

**Telecom Construction Notes:**

- (T1) Install 404 LF 5" HDPE Conduit with (4) 2" fabric innerduct - See note 4
- (T2) Pull Box - See note 3

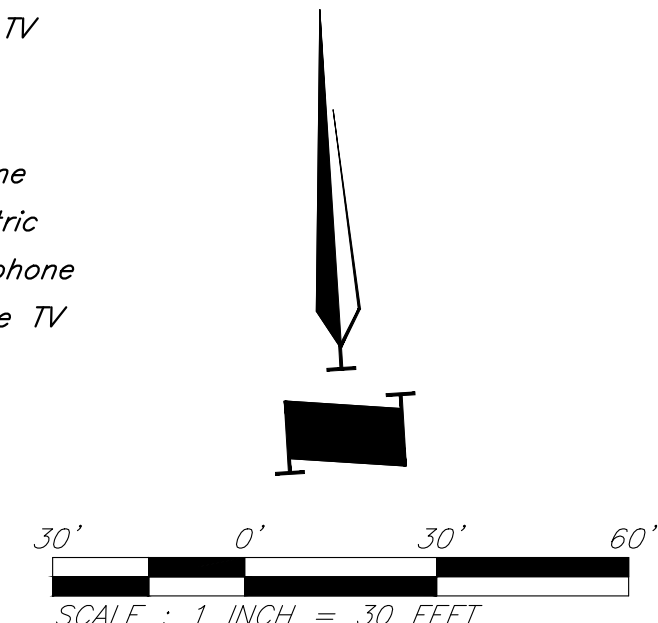
**Storm Sewer Construction Notes:**

- (ST1) See Paragon Star Soccer Complex Field Storm Sewer Plans.
- (S1) Existing E.O.S  $\ell = 810.40$ . See Sanitary Sewer Plans. Install (2) wye connections. Install 121.5 LF 6" dia. SDR26 PVC @ 1.5% to S3. Install 42 LF 6" dia. SDR26 PVC @ 1.5% to S6.
- (S2) 45° Bend
- (S3) Install tee,  $\ell = 812.22$ . Install 3.5 LF 4" dia. SDR26 PVC @ 2% to S4. Install 66 LF 4" dia. SDR25 PVC @ 1.5% to S5.
- (S4) Install mobile sanitary connection per utility details.
- (S5) Install mobile sanitary connection per utility details.
- (S6) Install mobile sanitary connection per utility details.

**Sanitary Sewer Construction Notes:**

**Utility Legend**

- |  |                                 |  |                                |
|--|---------------------------------|--|--------------------------------|
|  | Existing Cable TV Pedestal      |  | Existing Fiber Optic Line      |
|  | Existing Power Pole             |  | Existing Fire Protection Line  |
|  | Existing Guy Anchor             |  | Existing Gas Line              |
|  | Existing Electrical Manhole     |  | Existing Over Head Electric    |
|  | Existing Electrical Transformer |  | Existing Over Head Telephone   |
|  | Existing Gas Meter              |  | Existing Over Head Cable TV    |
|  | Existing Curb Inlet             |  | Property Line                  |
|  | Existing Sanitary Sewer Manhole |  | Right-of-Way Line              |
|  | Existing Sanitary Cleanout      |  | Existing Sanitary Sewer Line   |
|  | Existing Light Pole             |  | Existing Underground Electric  |
|  | Existing Boring Hole            |  | Existing Underground Telephone |
|  | Existing Sign                   |  | Existing Underground Cable TV  |
|  | Existing Telephone Pedestal     |  | Existing Water Line            |
|  | Existing Traffic Signal Post    |  | Proposed Storm Sewer           |
|  | Existing Traffic Manhole        |  | Proposed Storm Sewer           |
|  | Existing Fire Hydrant           |  | Underdrain                     |
|  |                                 |  | Match Line                     |



CIVIL ENGINEERING  
G&A  
9801 Renner Boulevard  
Lenexa, KS 66219  
913.492.0400  
www.gbateam.com  
MO Certificate of Authority # 000133

LANDSCAPE ARCHITECTURE  
LAND3 Studio, LLC  
317 SE Main  
Lee's Summit, MO 64693  
www.land3studio.com  
MO Certificate of Authority # 2008001860

LANDSCAPE ARCHITECTURE  
Hoerr Schaudt Landscape Architects  
2100 Central Street, Suite 01C  
Kansas City, MO 64108  
816.510.0438  
www.hoerschaudt.com  
MO Certificate of Authority #201904088

MEP ENGINEERING  
HENDERSON ENGINEERS, Inc.  
8345 Lenexa Drive  
Lenexa, KS 66214  
913.742.5000  
www.hel-eng.com  
Missouri Certificate of Authority # 000556

ARCHITECTURE  
FINKLE + WILLIAMS Architecture  
6787 Renner Boulevard, Suite 100  
Lenexa, KS 66219  
913.498.1550  
www.finklewilliams.com  
Missouri Certificate of Authority #F004S3304

PROJECT:

# Paragon Star Soccer Complex

Soccer Complex & Associated Improvements  
1401 NW View High Dr, Lee's Summit, MO 64081  
Final Development Plan - RESUBMITTAL

ISSUE:

|  |                                  |
|--|----------------------------------|
|  | 6/13/22 Soccer Complex Revisions |
|  | 10/21/22 Revision 5              |
|  | 3/17/23 Revision 7               |

PROFESSIONAL SEAL:



DRAWING TITLE:

## Utility Plan

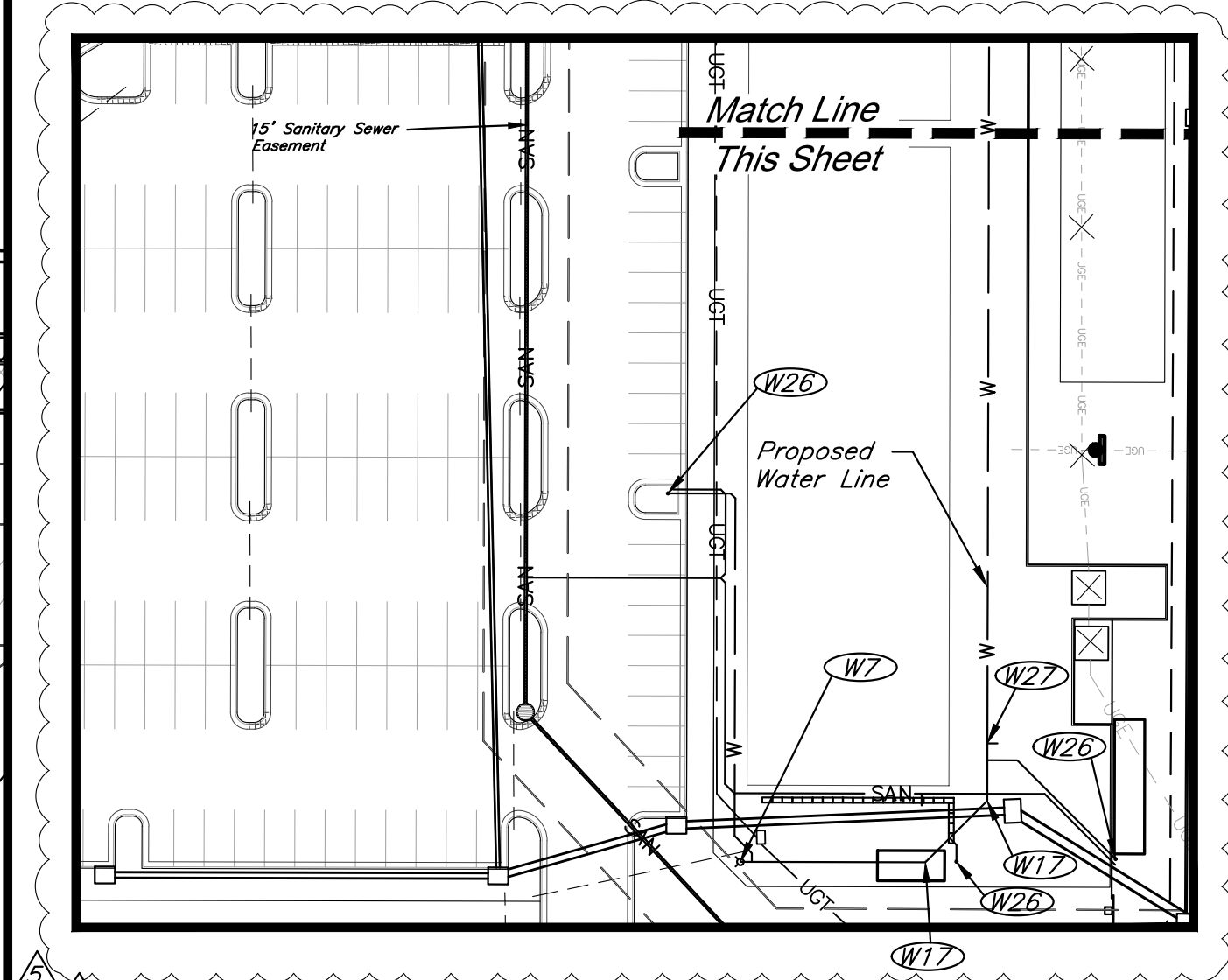
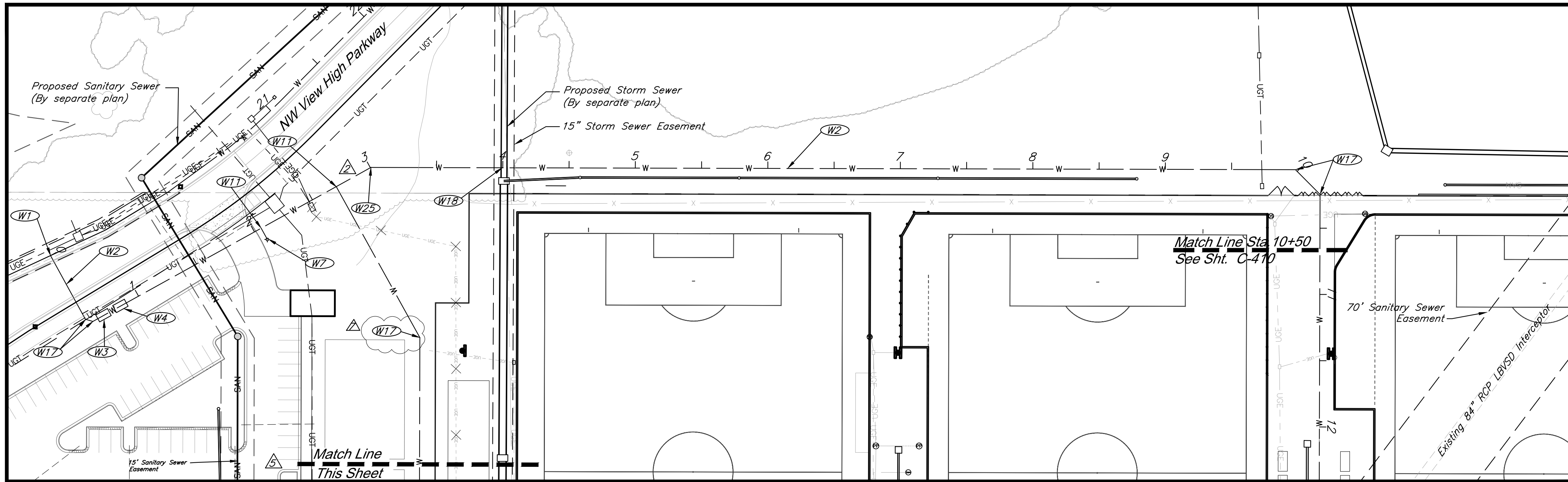
JOB NO: 1197 SCALE:  
DATE: 8.2.2021 DRAWN BY: JMS/KJN

SHEET NO:

# C-401



G:\12220\Civil\_3D\Production Drawings\Construction Site Plans\12220C0902.dwg Layout: C-409 Utility Plan -- Monday, March 27, 2023, 2:22pm -- Copyright 2023, George Butler Associates, Inc.

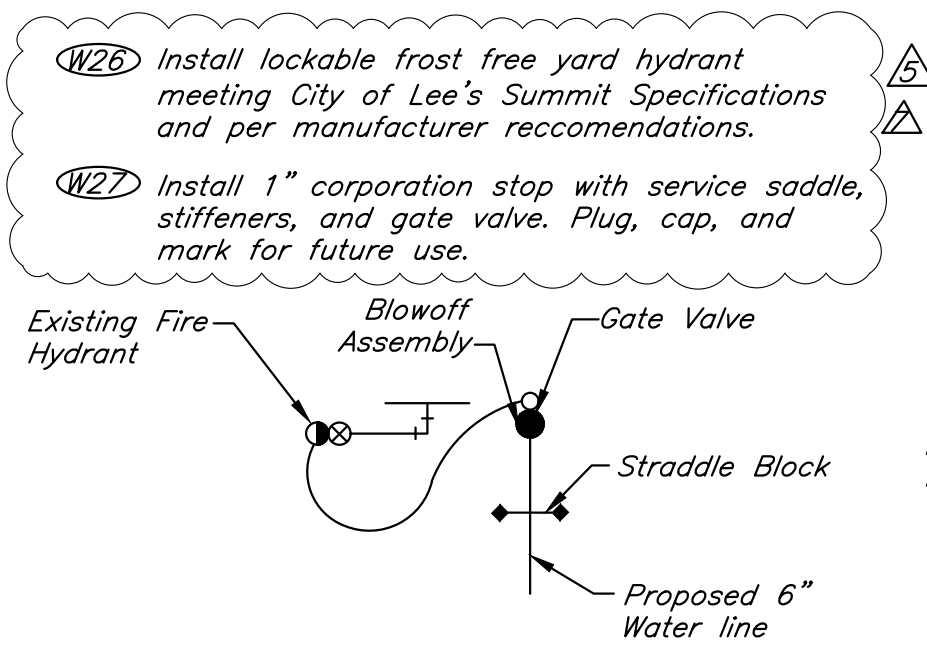


### Utility Legend

|  |                        |  |                              |
|--|------------------------|--|------------------------------|
|  | Cable TV Pedestal      |  | Water Meter                  |
|  | Power Pole             |  | Fiber Optic Line             |
|  | Guy Anchor             |  | Fire Protection Line         |
|  | Electrical Manhole     |  | Gas Line                     |
|  | Electrical Transformer |  | Over Head Electric           |
|  | Gas Meter              |  | Over Head Telephone          |
|  | Curb Inlet             |  | Over Head Cable TV           |
|  | Sanitary Sewer Manhole |  | Property Line                |
|  | Sanitary Cleanout      |  | Right-of-Way Line            |
|  | Light Pole             |  | Existing Sanitary Sewer Line |
|  | Boring Hole            |  | Underground Electric         |
|  | Sign                   |  | Underground Telephone        |
|  | Telephone Pedestal     |  | Underground Cable TV         |
|  | Traffic Signal Post    |  | Water Line                   |
|  | Traffic Manhole        |  | Proposed Storm Sewer         |
|  | Fire Hydrant           |  | Future Storm Sewer           |
|  |                        |  | Proposed Sanitary Sewer Line |

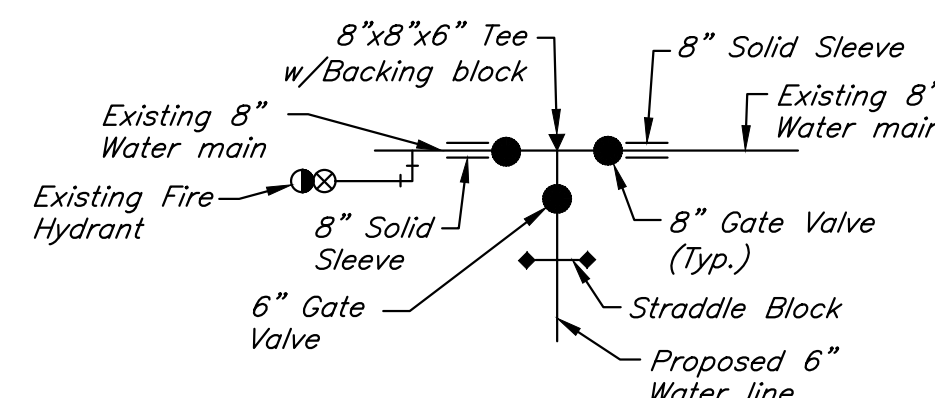
### Water Construction Notes:

- (W1) Remove plug and Connect 6" Class 52 DIP Water Line via Existing 8"x8"x6" Tee. N-1010732.6044 E-2804763.8458
- (W2) Furnish and Install 6" Class 52 DIP W/ Polywrap & Zinc Coating Water Line at 42" minimum cover.
- (W3) Install 6" Full Fire Flow Meter in concrete vault.
- (W4) Install Backflow Preventer in concrete vault. Backflow preventer to be sized by MEP.
- (W7) Install 6" Fire Hydrant Assembly. See Detail.
- (W11) Install 6"x6"x6" Tee DIP.
- (W17) Install 45" Bend W/ Thrust Block
- (W18) Install 20 LF. Conc. Encasement on Waterline, Centered on Crossing.
- (W24) Install 90" Bend W/ Thrust Block.
- (W25) Install 22.5" Bend W/ Thrust Block.



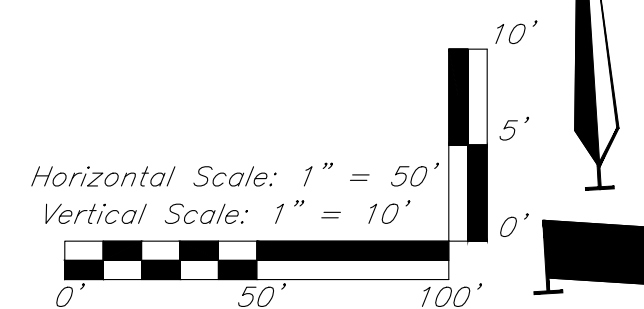
### Temporary Water Line Connection Detail

Restrain Throughout  
Not To Scale



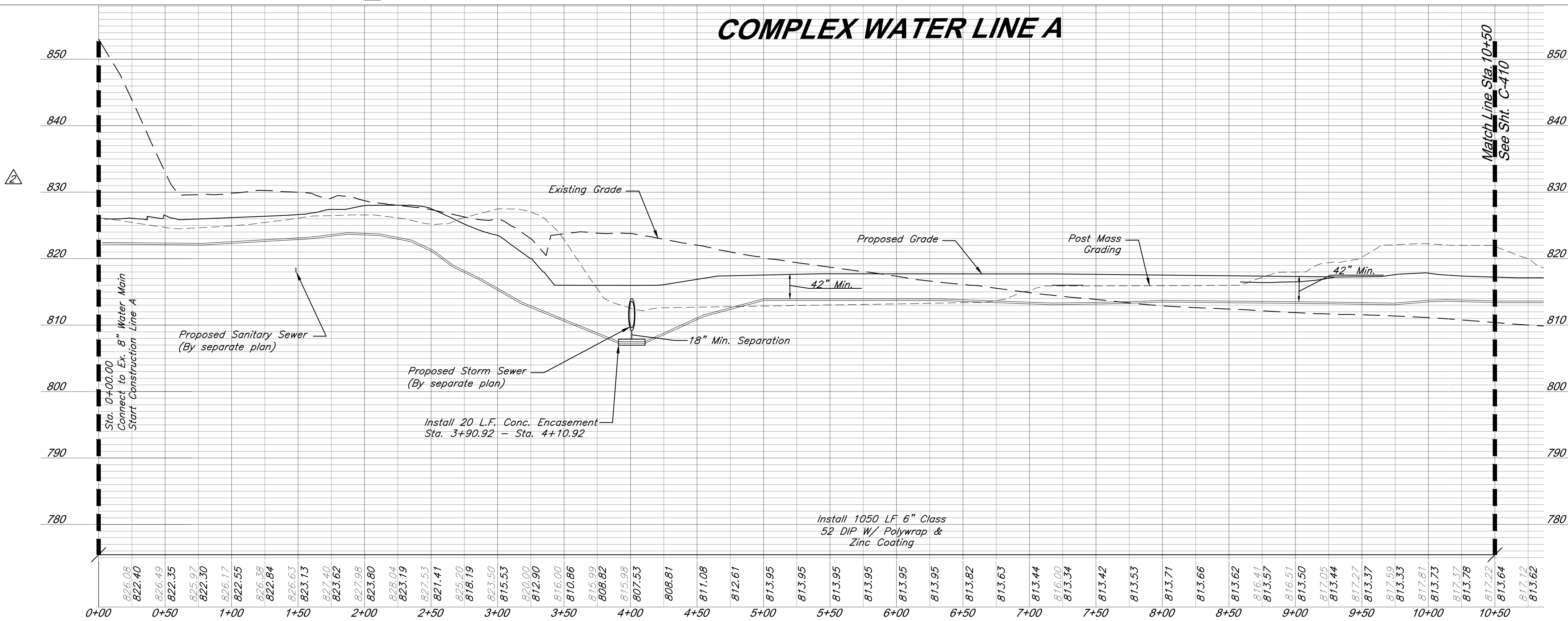
### Permanent Water Line Connection Detail

Restrain Throughout  
Not To Scale



**CAUTION!**  
Numerous Utilities on site. Contractor to verify location and elevation of all utilities prior to commencing construction.

Note: See Sheets C-503-C-504 for utility details.



G&A  
9801 Renner Boulevard  
Lenexa, KS 66219  
913.492.0400  
www.gbteam.com  
MO Certificate of Authority # 000133

LAND3 Studio, LLC  
317 SE Main  
Lee's Summit, MO 64693  
www.land3studio.com  
MO Certificate of Authority # 2008001860

Hoerr Schaudt Landscape Architects  
2100 Central Street, Suite 01C  
Kansas City, MO 64108  
816.510.0438  
www.hoerschaudt.com  
MO Certificate of Authority # 2019043088

HENDERSON ENGINEERS, Inc.  
8345 Lenexa Drive  
Lenexa, KS 66214  
913.742.5000  
www.hel-eng.com  
Missouri Certificate of Authority # 000556

FINKLE + WILLIAMS Architecture  
8787 Renner Boulevard, Suite 100  
Lenexa, KS 66219  
913.498.1550  
www.finklewilliams.com  
Missouri Certificate of Authority # F00453304

PROJECT:

## Paragon Star Soccer Complex

Soccer Complex & Associated Improvements  
1401 NW View High Dr, Lee's Summit, MO 64081  
Final Development Plan - RESUBMITTAL

ISSUE:

|  |          |                     |
|--|----------|---------------------|
|  | 7/25/22  | Water Line Location |
|  | 10/21/22 | Revision 4          |
|  | 3/17/23  | Revision 7          |

PROFESSIONAL SEAL:



DRAWING TITLE:

### Utility Plan Water Line A

JOB NO: 1197 SCALE:  
DATE: 8.2.2021 DRAWN BY: JMS/KJN

SHEET NO:

# C-409



