

DIVISION 01 – GENERAL REQUIREMENTS

- GENERAL:
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES, WHETHER PUBLIC OR PRIVATE, PRIOR TO EXCAVATION. THE INFORMATION AND DATA SHOWN WITH RESPECT TO EXISTING UNDERGROUND FACILITIES AT OR CONTIGUOUS TO THE SITE IS APPROXIMATE AND BASED ON INFORMATION FURNISHED BY THE OWNERS OF SUCH UNDERGROUND FACILITIES OR ON PHYSICAL APPURTENANCES OBSERVED IN THE FIELD. THE CITY AND ENGINEER SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ANY SUCH INFORMATION OR DATA. THE CONTRACTOR SHALL HAVE FULL RESPONSIBILITY FOR REVIEWING AND CHECKING ALL SUCH INFORMATION OR DATA, FOR LOCATING ALL UNDERGROUND FACILITIES, FOR COORDINATION OF THE WORK WITH THE OWNERS OF SUCH UNDERGROUND FACILITIES DURING CONSTRUCTION AND FOR THE SAFETY AND PROTECTION THEREOF AND REPAIRING ANY DAMAGE THERETO RESULTING FROM THE WORK. THIS WORK SHALL BE CONSIDERED AS A SUBSIDIARY ITEM OF WORK, THE COST OF WHICH SHALL BE INCLUDED IN THE PRICE BID IN THE PROPOSAL FOR VARIOUS BID ITEMS. THE CONTRACTOR SHALL NOTIFY ANY AFFECTED OWNERS (UTILITY COMPANIES) OR AGENCIES IN WRITING AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.
    - NOTIFY TEXAS 811 (1-800-DIG-TESS OR WWW.TEXAS811.ORG) TO LOCATE EXISTING UTILITIES PRIOR TO CONSTRUCTION.
    - CAUTION! BURIED ELECTRIC LINES MAY EXIST ALONG THIS PROJECT. CONTACT ELECTRICAL PROVIDERS 48 HOURS PRIOR TO EXCAVATION :
      - ONCOR 888-313-6862
    - CAUTION! BURIED GAS LINES MAY EXIST ALONG THIS PROJECT. CONTACT ATMOS 48 HOURS PRIOR TO EXCAVATION, AND WITHIN TWO (2) HOURS OF ENCOUNTERING A GAS LINE (800-692-6862)
    - CAUTION! BURIED COMMUNICATION CABLES MAY EXIST ALONG THIS PROJECT. CONTACT COMMUNICATION COMPANIES 48 HOURS PRIOR TO EXCAVATION:
      - AT&T 800-395-0440
      - CHARTER COMMUNICATIONS 817-246-5530
    - CAUTION! WHEN DOING WORK WITHIN 200 FEET OF ANY SIGNALIZED INTERSECTION, THE CONTRACTOR SHALL NOTIFY TRAFFIC MANAGEMENT DIVISION OF CITY OF FORT WORTH T/PW, 72 HOURS PRIOR TO EXCAVATION (817-392-7738). THE CONTRACTOR SHALL PROTECT EXISTING SIGNAL HARDWARE, GROUND BOXES, DETECTION LOOPS, AND UNDERGROUND CONDUIT AT SIGNALIZED INTERSECTIONS. ANY DAMAGES AT SIGNALIZED INTERSECTIONS SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR. THE CONTRACTOR SHALL CONTACT THE CITY AT 817-392-8100 TO PERFORM CONDUIT LINE LOCATES AT SIGNALIZED INTERSECTIONS 72 HOURS PRIOR TO COMMENCING WORK AT THE INTERSECTION. CONTRACTOR SHOULD COORDINATE WITH CFW TRAFFIC SIGNALS GROUP (AZIZ RAHMAN, ENGINEERING MANAGER AT AZIZ.RAHMAN@FORTWORTHTEXAS.GOV) AT LEAST 3 WEEKS IN ADVANCE OF THE LANE CLOSURES AT THE INTERSECTION TO MAKE TEMPORARY SIGNAL TIMING CHANGES ACCOMMODATE THE CONSTRUCTION.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE GENERAL SAFETY AT AND ADJACENT TO THE PROJECT AREA, INCLUDING THE PERSONAL SAFETY OF PUBLIC AND PRIVATE PROPERTY. CONTRACTOR SHALL PROVIDE TEMPORARY SANITARY SEWER FACILITIES TO AFFECTED PROPERTY OWNERS, IF NECESSARY PER SECTION 01 50 00 TEMPORARY FACILITIES AND CONTROLS. NOT A SEPARATE PAY ITEM.
  - CONTRACTOR'S PERSONNEL SHALL HAVE IDENTIFYING CLOTHING, HATS OR BADGES AT ALL TIMES WHICH IDENTIFY THE CONTRACTOR'S NAME, LOGO OR COMPANY.
  - THE CONTRACTOR SHALL DISTRIBUTE NOTICES (DOOR HANGER) TO ALL AFFECTED PROPERTY OWNERS PRIOR TO BEGINNING WORK ON EACH PROPERTY PER SECTION 01 35 13.
  - THE CONTRACTOR SHALL VIDEO ALL POTENTIALLY IMPACTED PRIVATE PROPERTY AREAS PRIOR TO WORK. VIDEOS SHALL INCLUDE DATE, NOTATION, AND AUDIO IDENTIFICATION OF PROPERTY ADDRESS AND MAIN/LATERAL NAME AND STATION NUMBER. THIS PRE-CONSTRUCTION VIDEO OF IMPACTED PROPERTIES SHALL BE CONSIDERED SUBSIDIARY WORK PER SECTION 01 32 33 PRECONSTRUCTION VIDEO.
  - CONTRACTOR'S PERSONNEL SHALL HAVE IDENTIFYING CLOTHING OR HATS AT ALL TIMES. THE CONTRACTOR SHALL ALSO HAVE IDENTIFICATION ON ALL VEHICLES.
  - CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO THE HOURS OF 7:00 AM TO 6:00 PM MONDAY THRU FRIDAY UNLESS APPROVED OR DIRECTED BY THE CITY. AT THE PRE-CONSTRUCTION MEETING, THE CONTRACTOR SHALL PROVIDE A CONSTRUCTION SCHEDULE IN ACCORDANCE WITH SECTION 01 32 16, AND PROVIDE MONTHLY UPDATES ALONG WITH THE PROGRESS PAYMENT PER GENERAL CONDITIONS, SECTION 00 72 00, ARTICLE 6.04. ANY PROPOSED WORK BEYOND REGULAR WORKING HOURS WILL REQUIRE WRITTEN REQUEST BY THE CONTRACTOR PER GENERAL CONDITIONS, SECTION 00 72 00, ARTICLE 6.02.

- THE CONTRACTOR IS RESPONSIBLE FOR KEEPING STREETS AND SIDEWALKS ADJACENT TO PROJECT FREE OF MUD AND DEBRIS FROM THE CONSTRUCTION PER SECTION 01 74 23. WORK ASSOCIATED WITH THIS ITEM IS CONSIDERED SUBSIDIARY TO VARIOUS ITEMS BID.
- THE CONTRACTOR SHALL CLEAN UP AND RESTORE THE AREA OF OPERATIONS TO A CONDITION AS GOOD AS OR BETTER THAN THAT WHICH EXISTED PRIOR TO WORK, PER SECTION 01 74 23.
- PRIOR TO SCHEDULING THE PROJECT FINAL, THE CONTRACTOR SHALL PROVIDE REDLINES, CUT SHEETS, FINAL APPROVED PIPE SHOP DRAWINGS, CCTV VIDEO/REPORTS, LINER RESULTS, ETC., PIPE REPORT AND SERVICE REPORT PER SECTIONS 01 77 19, 01 78 39, AND 33 01 31 TO THE CITY FOR REVIEW, REVISIONS, AND FINAL ACCEPTANCE.
- WHEN IT IS REQUIRED THAT A CONTRACTOR WORK OR ENTER PRIVATE PROPERTY, THE CONTRACTOR SHALL CONTACT THE PROPERTY OWNER 48 HOURS PRIOR TO CONSTRUCTION PER SECTION 01 11 00. DO NOT STORE EQUIPMENT OR MATERIAL ON PRIVATE PROPERTY UNLESS AND UNTIL THE SPECIFIED APPROVAL OF THE PROPERTY OWNER HAS BEEN SECURED IN WRITING BY THE CONTRACTOR AND A COPY FURNISHED TO THE CITY.
- THE CONTRACTOR SHALL REMOVE FROM THE PROJECT AREA ALL SURPLUS MATERIAL. THIS SHALL BE INCIDENTAL AND NOT A SEPARATE PAY ITEM. SURPLUS MATERIALS FROM EXCAVATION INCLUDING DIRT, TRASH, ETC. SHALL BE PROPERLY DISPOSED OF AT A SITE ACCEPTABLE TO THE CITY'S FLOOD PLAIN ADMINISTRATOR IF WITHIN THE CITY LIMITS. IF THE LOCATION IS NOT WITHIN THE CITY LIMITS, THE CONTRACTOR SHALL PROVIDE A LETTER STATING SO. SURPLUS MATERIAL MAY NOT BE PLACED IN NATURAL DRAINAGE WAY WITHOUT WRITTEN PERMISSION FROM THE AFFECTED PROPERTY OWNER AND THE CITY'S FLOOD PLAIN ADMINISTRATOR. IF THE CONTRACTOR PLACES EXCESS MATERIAL IN THE AREAS WITHOUT WRITTEN PERMISSION, CONTRACTOR SHALL RESPONSIBLE FOR ALL DAMAGE RESULTING FROM SUCH FILL AND SHALL REMOVE THE MATERIAL AT THEIR OWN COST.
- COSTS ASSOCIATED WITH PROPOSED CONNECTIONS TO EXISTING FACILITIES SHALL BE INCLUDED IN EACH RESPECTIVE BID ITEM, IF NO SPECIFIC BID ITEM IS INCLUDED. NO SEPARATE PAY, EXCEPT AS SPECIFICALLY INDICATED WITHIN THESE PLANS OR THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL REMOVE ALL FENCES, LOCATED WITHIN EASEMENTS, INTERFERING WITH CONSTRUCTION OPERATION AND PROVIDE TEMPORARY FENCING DURING CONSTRUCTION. REMOVED FENCES, WOODEN OR CHAIN LINK, SHALL BE REPLACED WITH A NEW FENCE OR UNDAMAGED ORIGINAL FENCING. ALL AFFECTED PROPERTY OWNERS SHALL BE NOTIFIED PRIOR TO CONSTRUCTION. REMOVAL AND REPLACEMENT OF EXISTING AND TEMPORARY FENCES PER SECTION 01 11 00 SUMMARY OF WORK, SHALL BE CONSIDERED SUBSIDIARY TO THE PROJECT COST AND REFLECTED IN THE UNIT BID PRICES FOR VARIOUS ITEMS LISTED IN THE PROPOSAL.

DIVISION 02 – EXISTING CONDITIONS

- CONTRACTOR SHALL PROTECT CONCRETE CURB AND GUTTER, DRIVEWAYS, AND SIDEWALKS THAT ARE NOT DESIGNATED FOR REMOVAL. REMOVAL AND REPLACEMENT OF THESE ITEMS SHALL BE AS DESIGNATED.
- THE CONTRACTOR SHALL PRESERVE AND PROTECT OR REMOVE AND REPLACE WHEN SHOWN ON THE PLANS (WITH PRIOR APPROVAL OF CITY PARKS AND COMMUNITY SERVICES AND/OR AFFECTED PROPERTY OWNERS) ALL TREES, SHRUBS, HEDGES, RETAINING WALLS, LANDSCAPING, BUILDINGS, WALKS, ETC. IN OR NEAR PROPOSED CONSTRUCTION AREA. IF SPECIFIC BID ITEM(S) ARE NOT INCLUDED, THIS WORK SHALL BE CONSIDERED INCIDENTAL AND NOT A SEPARATE PAY ITEM.
- CONTRACTOR SHALL NOT CRACK, BREAK, MAR, OR OTHERWISE DAMAGE TILE STREET NAME MARKERS. IN THE EVENT A TILE STREET NAME MARKER IS LOCATED IN AN AREA OF CONSTRUCTION AND CANNOT BE PROTECTED, CONTRACTOR SHOULD REMOVE THE SECTION OF CURB AND GUTTER CONTAINING THE FULL TILE STREET NAME MARKER. CONTRACTOR SHALL REPLACE THE FULL SECTION OF THE CURB AND STREET MARKER.

DIVISION 31 – EARTHWORK

- THE CONTRACTOR MUST REVIEW AND MAINTAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN WITH ALL CONDITIONS, ATTACHMENTS, EXHIBITS, AND PERMIT MODIFICATIONS IN GOOD CONDITION AT THE CONSTRUCTION SITE. THE COMPLETE PERMIT MUST BE AVAILABLE FOR REVIEW UPON REQUEST.
- EROSION CONTROL MEASURES MAY ONLY BE PLACED IN FRONT OF INLETS, OR IN CHANNELS, DRAINAGE WAYS, OR BORROW DITCHES AT RISK OF CONTRACTOR. CONTRACTOR SHALL REMAIN LIABLE FOR ANY DAMAGE CAUSED BY THE MEASURES, INCLUDING FLOODING DAMAGE, WHICH MAY OCCUR DUE TO BLOCKED DRAINAGE. AT THE CONCLUSION OF ANY PROJECT, ALL CHANNELS, DRAINAGE WAYS, AND BORROW DITCHES IN THE WORK ZONE SHALL BE DREDGED OF ANY SEDIMENT GENERATED BY THE PROJECT OR DEPOSITED AS A RESULT OF EROSION CONTROL MEASURES.
- THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL EROSION, CONSERVATION, AND SILTATION ORDINANCES. THE CONTRACTOR SHALL USE SEDIMENT FILTERS OR OTHER MEASURES APPROVED BY THE ENGINEER AND CONSTRUCTION MANAGER TO PREVENT SILT AND CONSTRUCTION DEBRIS FROM CLOGGING STORM SEWER PIPES OR PROPOSED OR EXISTING INLETS, OR FROM BEING TRANSPORTED TO ADJACENT PROPERTIES AND STREET RIGHT-OF-WAYS. ALL EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO SITE DISTURBANCE AND SHALL REMAIN IN PLACE UNTIL FINAL GRADING AND PAVING IS COMPLETE AND PERMANENT SOIL STABILIZATION IS ACHIEVED.
- CONSTRUCTION OPERATIONS SHALL BE MANAGED SO THAT AS MUCH OF THE SITE AS POSSIBLE IS LEFT COVERED WITH EXISTING TOPSOIL AND VEGETATION.
- ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED SMOOTH. SODDING OR SEEDING SHALL BE PER SECTIONS 32 92 13 "SODDING" OR 32 92 14 "NON-NATIVE SEEDING", RESPECTIVELY.
- CONTRACTOR SHALL CONSTRUCT A STABILIZED CONSTRUCTION ENTRANCE AT ALL PRIMARY POINTS OF ACCESS. CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL CONSTRUCTION TRAFFIC UTILIZES THE STABILIZED ENTRANCE AT ALL TIMES FOR INGRESS AND EGRESS TO THE SITE.
- SITE ENTRY AND EXIT LOCATIONS SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADWAYS. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ON A PUBLIC ROADWAY SHALL BE REMOVED IMMEDIATELY. WHEN WASHING IS REQUIRED TO REMOVE SEDIMENT PRIOR TO ENTRANCE TO A PUBLIC ROADWAY, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT BASIN. ALL FINES IMPOSED FOR TRACKING ONTO PUBLIC ROADS SHALL BE PAID BY THE CONTRACTOR.
- CONTRACTOR IS RESPONSIBLE FOR PROPER MAINTENANCE OF THE REQUIRED EROSION CONTROL DEVICES THROUGHOUT THE ENTIRE CONSTRUCTION PROCESS. EROSION CONTROLS SHALL BE REPAIRED OR REPLACED AS INSPECTION DEEMS NECESSARY, OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE. ACCUMULATED SILT IN ANY EROSION CONTROL DEVICE SHALL BE REMOVED AND SHALL BE DISTRIBUTED ON SITE IN A MANNER NOT CONTRIBUTING TO ADDITIONAL SILTATION. THE CONTRACTOR IS RESPONSIBLE FOR RE-ESTABLISHING ANY EROSION CONTROL DEVICE WHICH IS DISTURBED.
- BEFORE ANY EARTHWORK IS DONE, THE CONTRACTOR SHALL STAKE OUT AND MARK THE LIMITS OF CONSTRUCTION AND OTHER ITEMS ESTABLISHED BY THE PLANS. THE CONTRACTOR SHALL PROTECT AND PRESERVE CONTROL POINTS AT ALL TIMES DURING THE COURSE OF THE PROJECT. THE GRADING CONTRACTOR SHALL PROVIDE ALL NECESSARY ENGINEERING AND SURVEYING FOR LINE AND GRADE CONTROL POINTS RELATED TO EARTHWORK.
- CONTRACTOR STAGING AREA TO BE AGREED UPON BY OWNER PRIOR TO BEGINNING CONSTRUCTION.
- TAKE APPROPRIATE MEASURES TO PRESERVE WILDLIFE IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL GUIDELINES.

DIVISION 32 – EXTERIOR IMPROVEMENTS

- GENERAL:
- AT LOCATIONS WHERE THE CURB AND GUTTER ARE TO BE REPLACED, THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR THE RE-ESTABLISHMENT OF EXISTING STREET AND GUTTER GRADES. IF BID ITEM FROM CONSTRUCTION STAKING IS NOT INCLUDED, ESTABLISHMENT OF GRADES SHALL BE CONSIDERED AS A SUBSIDIARY ITEM OF WORK, THE COST OF WHICH SHALL BE INCLUDED IN THE PRICE BID IN THE PROPOSAL FOR VARIOUS BID ITEMS.

SIDEWALKS AND CURB RAMPS:

- THE CURB RAMP STANDARD DETAILS ARE INTENDED TO SHOW TYPICAL LAYOUTS FOR THE CONSTRUCTION OF THE CURB RAMPS. THE INFORMATION SHOWN ON THE STANDARD DETAILS MEET THE REQUIREMENTS SHOWN IN THE "2012 TEXAS ACCESSIBILITY STANDARDS" (TAS) AND THE "2010 ADA STANDARDS FOR ACCESSIBLE DESIGN" BY THE DEPARTMENT OF JUSTICE.
- THE CONTRACTOR MAY NOT MAKE CHANGES TO THE SIDEWALK AND CURB RAMP LAYOUT WITHOUT APPROVAL OF THE CITY. THE CONTRACTOR MAY PROPOSE CHANGES TO THE SIDEWALK AND CURB RAMP LAYOUT DUE TO FIELD CONDITIONS, BUT ANY PROPOSED CHANGES MUST BE APPROVED BY THE CITY.

EXISTING LINETYPES

|  |                               |
|--|-------------------------------|
|  | EXISTING CURB                 |
|  | EXISTING EDGE OF ASPHALT      |
|  | EXISTING FENCE                |
|  | EXISTING CABLE                |
|  | EXISTING COMMUNICATION        |
|  | EXISTING 10" PVC W            |
|  | EXISTING IRRIGATION           |
|  | EXISTING 8" PVC SS            |
|  | EXISTING GAS LINE             |
|  | EXISTING FORCE MAIN           |
|  | EXISTING FIBER-OPTIC CABLE    |
|  | EXISTING TELEPHONE LINE       |
|  | EXISTING OVERHEAD ELECTRIC    |
|  | EXISTING UNDERGROUND ELECTRIC |
|  | EXISTING STORM DRAIN          |
|  | EXISTING STORM DRAIN INLET    |

\*ALL LINETYPES MAY NOT BE ON THIS SITE

WARNING TO CONTRACTOR:

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UTILITY NOTE:

THE UTILITIES SHOWN ON THE PLANS WERE COMPILED FROM VARIOUS SOURCES AND ARE INTENDED TO SHOW THE GENERAL EXISTENCE AND LOCATION OF UTILITIES IN THE AREA OF CONSTRUCTION. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE UTILITY INFORMATION SHOWN ON THE PLANS. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT UTILITY COMPANIES 48 HOURS IN ADVANCE OF ANY CONSTRUCTION ACTIVITIES IN ORDER TO DETERMINE IF THERE IS ANY CONFLICT WITH THE PROPOSED FACILITIES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY WHEN CONFLICTS WITH EXISTING UTILITIES ARE DISCOVERED. THE FOLLOWING PHONE NUMBERS ARE PROVIDED FOR CONVENIENCE. CONSIDERATION OF OTHER UTILITIES MAY BE REQUIRED.

|                                    |                |
|------------------------------------|----------------|
| FORT WORTH WATER DEPT              | (817) 392-8296 |
| FORT WORTH TPW                     | (817) 392-8100 |
| TEXAS 811 (LOCATING SERVICE)       | 811            |
| CHARTER COMMUNICATIONS (TV CABLE)  | (888) 438-2427 |
| MCI (OWNER OF WESTERN UNION LINES) | (800) 624-9675 |
| AT&T                               | (817) 338-6202 |
| VERIZON                            | (800) 483-1000 |
| ATMOS ENERGY                       | (800) 817-8080 |
| ONCOR ELECTRIC DELIVERY            | (888) 215-6888 |
| SPRINT                             | (800) 521-0579 |
| ZAYO                               |                |

EXISTING SYMBOLS

|  |                          |  |                        |
|--|--------------------------|--|------------------------|
|  | AIR CONDITIONER          |  | LIGHT POLE             |
|  | BENCHMARK                |  | MAILBOX                |
|  | BOLLARD                  |  | MONITOR WELL           |
|  | CABLE BOX                |  | SANITARY SEWER MANHOLE |
|  | CABLE PEDESTAL           |  | SIGN                   |
|  | CABLE VAULT              |  | SIGNAL BOX             |
|  | CLEAN OUT                |  | SIGNAL LIGHT           |
|  | DOWNSPOUT                |  | SOLAR PANEL            |
|  | ELECTRIC BOX             |  | SPRINKLER HEAD         |
|  | ELECTRIC MANHOLE         |  | STORM DRAIN MANHOLE    |
|  | ELECTRIC METER           |  | TELEPHONE BOX          |
|  | ELECTRIC PEDESTAL        |  | TELEPHONE MANHOLE      |
|  | ELECTRIC TRANSFORMER     |  | TELEPHONE PEDESTAL     |
|  | ELECTRIC VAULT           |  | TELEPHONE VAULT        |
|  | FIBER OPTIC MANHOLE      |  | TREE                   |
|  | FIBER OPTIC VAULT        |  | UNDERGROUND LINE       |
|  | FIRE HYDRANT             |  | UNDERGROUND VAULT      |
|  | FLAG POLE                |  | UNKNOWN MANHOLE        |
|  | GAS MANHOLE              |  | UNKNOWN PEDESTAL       |
|  | GAS METER                |  | UTILITY MARKER         |
|  | GAS PUMP ACCESS LID      |  | UTILITY POLE           |
|  | GAS PEDESTAL             |  | WATER MANHOLE          |
|  | GAS TEST SIGN            |  | WATER METER            |
|  | GAS VALVE                |  | WATER VALVE            |
|  | GRATE INLET              |  | WATER VAULT            |
|  | GUY                      |  | WATER WELL             |
|  | IRRIGATION CONTROL VALVE |  | YARD LIGHT             |

\*ALL OBJECT SYMBOLS MAY NOT BE ON THIS SITE

SHEET INDEX

SHEET NO. DESCRIPTION

|      |                           |
|------|---------------------------|
| C1.0 | GENERAL NOTES             |
| C2.0 | FIBER LOOP OVERALL LAYOUT |
| C2.1 | DIMENSIONAL CONTROL PLAN  |
| C2.2 | DIMENSIONAL CONTROL PLAN  |
| C2.3 | DIMENSIONAL CONTROL PLAN  |
| C2.4 | DIMENSIONAL CONTROL PLAN  |
| C2.5 | DIMENSIONAL CONTROL PLAN  |
| C2.6 | TRENCH DETAILS            |

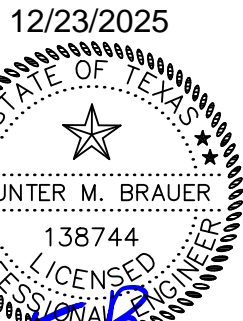
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GENERAL NOTES



JPS CAMPUS  
FIBER LOOP PROJECT  
FORT WORTH, TX

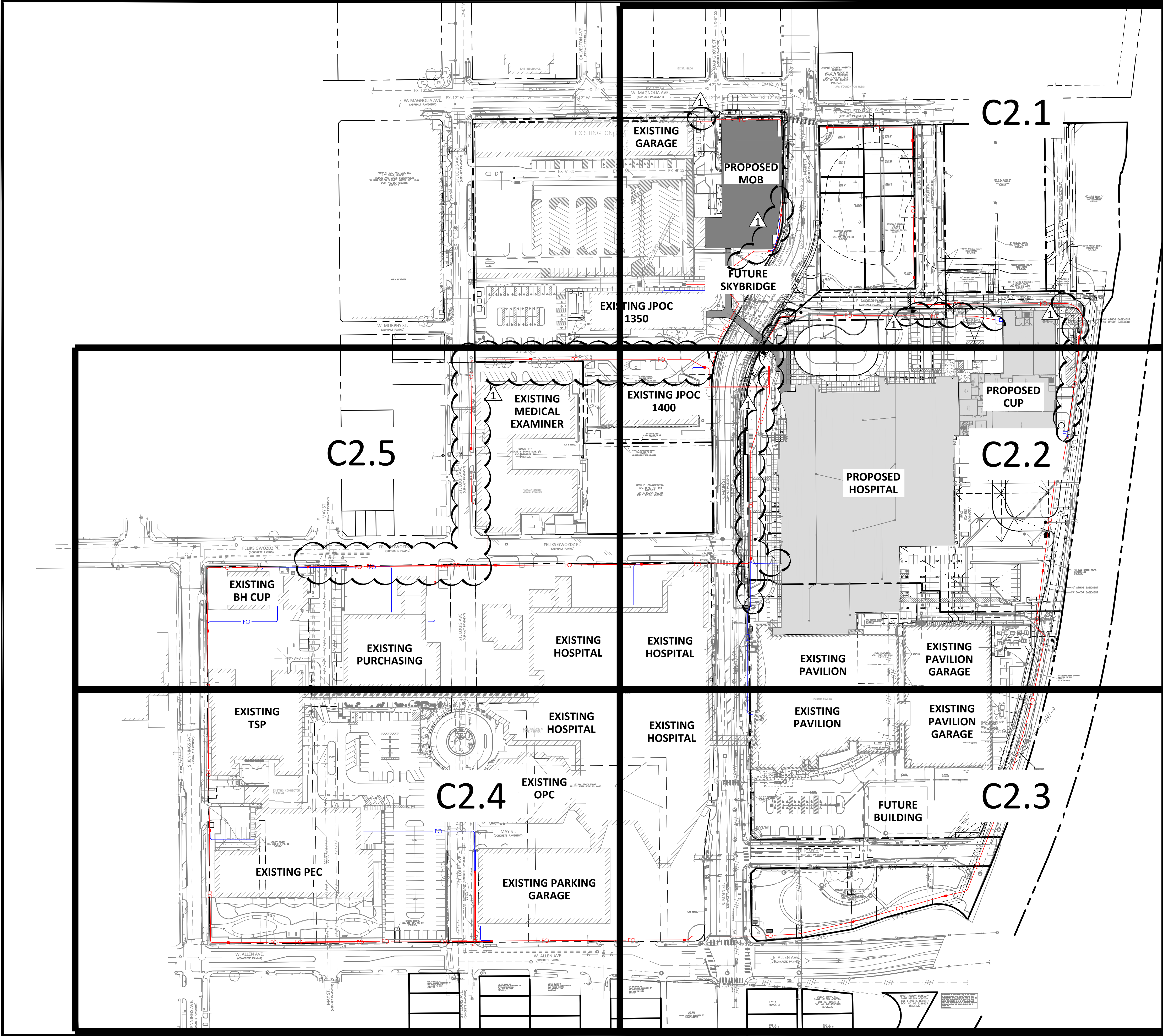


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|--------------|-----------|
| JOB NO.      | 12229.001 |
| DESIGNED BY: | HB        |
| DRAWN BY:    | AC/EG     |
| CHECKED BY:  | HB        |
| DATE:        | DEC 2025  |
| SHEET:       | C1.0      |



FILE PATH: P:\12229\12229001\12229001.dwg  
PLOTTER: HP DesignJet 2400  
PLOTTER DATE: 12/23/2025  
PLOTTER USER: J. L. DUNAWAY

FILE NAME: P:\12229\12229001\12229001.dwg  
PLOTTER: HP DesignJet 2400  
PLOTTER DATE: 12/23/2025  
PLOTTER USER: J. L. DUNAWAY



#### WARNING TO CONTRACTOR:

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#### UTILITY NOTE:

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|                                    |                |
|------------------------------------|----------------|
| FORT WORTH WATER DEPT              | (817) 392-8296 |
| FORT WORTH TPW                     | (817) 392-8100 |
| TEXAS 811 (LOCATING SERVICE)       | 811            |
| CHARTER COMMUNICATIONS (TV CABLE)  | (888) 438-2427 |
| MCI (OWNER OF WESTERN UNION LINES) | (800) 624-9675 |
| AT&T                               | (817) 335-6202 |
| VERIZON                            | (800) 483-1000 |
| ATMOS ENERGY                       | (800) 817-8090 |
| ONCOR ELECTRIC DELIVERY            | (888) 215-6688 |
| SPRINT                             | (800) 521-0579 |
| ZAYO                               |                |

#### REVISIONS

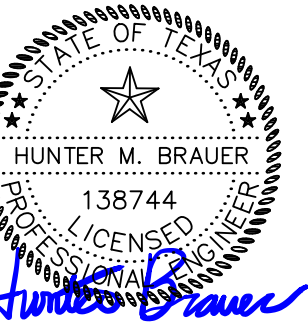
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| #   | #          | #           | # |
| #   | #          | #           | # |
| #   | #          | #           | # |

#### FIBER LOOP - OVERALL LAYOUT

JPS CAMPUS  
FIBER LOOP PROJECT  
FORT WORTH, TX

**DUNAWAY**  
550 Bailey Avenue • Suite 400 • Fort Worth, Texas 76107  
Tel: 817.335.1121  
Fax: 817.335.1114

12/23/2025



JOB NO. 12229.001

DESIGNED BY: HB

DRAWN BY: AC/EG

CHECKED BY: HB

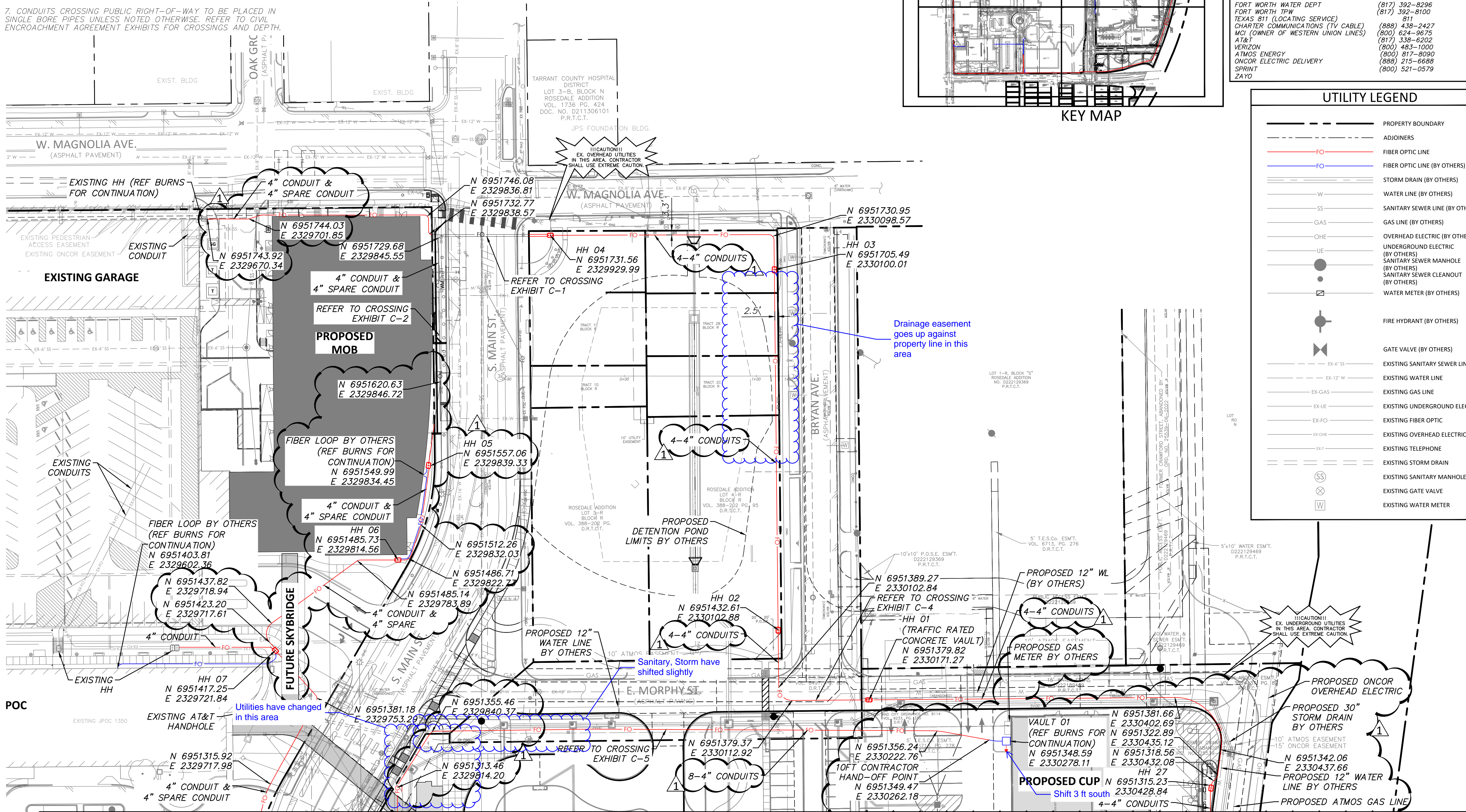
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SHEET: C2.0

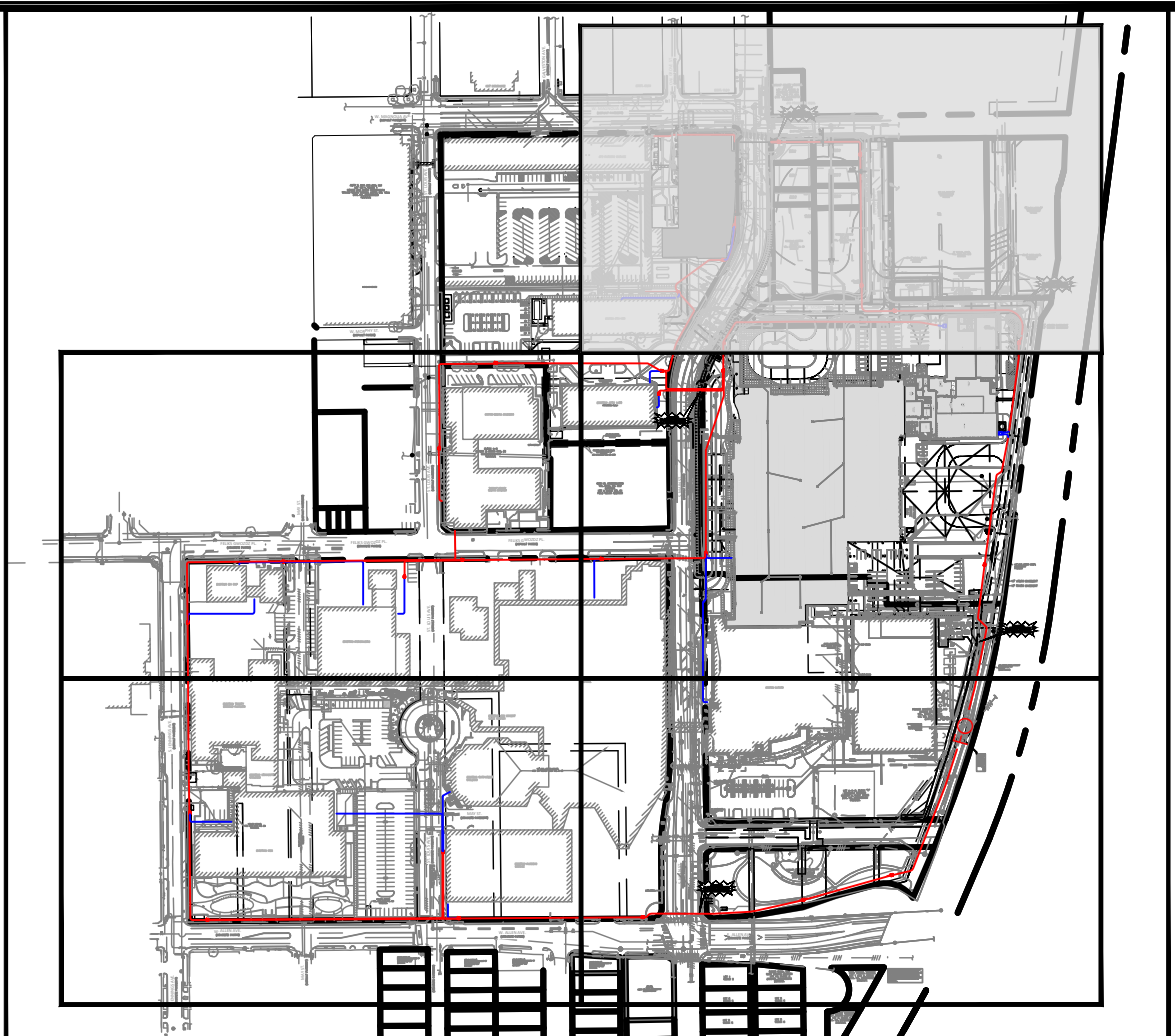


GENERAL NOTES

1. CONFIRM EXISTING CONDITIONS IN THE FIELD PRIOR TO PERFORMING ANY WORK.
2. EXISTING BUILDINGS ARE TO REMAIN OPERATIONAL THROUGHOUT CONSTRUCTION. COORDINATE ANY UNFORESEEN OUTAGES WITH THE JPS I.T. MANAGER PRIOR TO PERFORMING THE WORK.
3. COORDINATE COMMUNICATION PATHWAY SYSTEMS WITH OTHER UTILITIES PRIOR TO INSTALLATION.
4. COORDINATE ENTRY INTO THE BUILDING WITH JPS PDC AND STRUCTURAL ENGINEERS PRIOR TO INSTALLATION.
5. REFER TO TECHNOLOGY PLANS FOR HAND HOLE / VAULT DETAILS FOR SPECIFICATIONS ON CONDUIT PENETRATIONS, INCLUDING REQUIRED QUANTITIES AND ADDITIONAL INSTALLATION REQUIREMENTS.
6. CONDUIT FROM HAND HOLES/VAULTS TO BUILDINGS TO BE INSTALLED BY OTHERS AND SHOWN FOR REFERENCE ONLY.
7. CONDUITS CROSSING PUBLIC RIGHT-OF-WAY TO BE PLACED IN SINGLE BORE PIPES UNLESS NOTED OTHERWISE. REFER TO CIVIL ENCROACHMENT AGREEMENT EXHIBITS FOR CROSSINGS AND DEPTH.



MATCH LINE SHEET C2.2



KEY MAP

WARNING TO CONTRACTOR:

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ONCOR ELECTRIC DELIVERY (888) 215-6688  
SPRINT (800) 521-0579  
ZAYO

UTILITY LEGEND

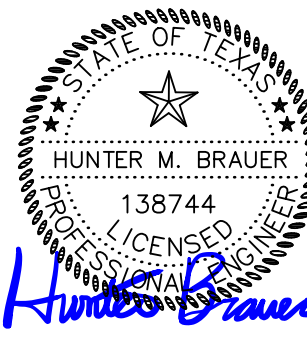
|     |                                     |
|-----|-------------------------------------|
| --- | PROPERTY BOUNDARY                   |
| --- | ADJOINERS                           |
| FO  | FIBER OPTIC LINE                    |
| FO  | FIBER OPTIC LINE (BY OTHERS)        |
| --- | STORM DRAIN (BY OTHERS)             |
| W   | WATER LINE (BY OTHERS)              |
| SS  | SANITARY SEWER LINE (BY OTHERS)     |
| --- | GAS LINE (BY OTHERS)                |
| OHE | OVERHEAD ELECTRIC (BY OTHERS)       |
| UE  | UNDERGROUND ELECTRIC (BY OTHERS)    |
| ●   | SANITARY SEWER MANHOLE (BY OTHERS)  |
| ○   | SANITARY SEWER CLEANOUT (BY OTHERS) |
| ⊠   | WATER METER (BY OTHERS)             |
| ⊕   | FIRE HYDRANT (BY OTHERS)            |
| ⊗   | GATE VALVE (BY OTHERS)              |
| --- | EXISTING SANITARY SEWER LINE        |
| --- | EXISTING WATER LINE                 |
| --- | EXISTING GAS LINE                   |
| --- | EXISTING UNDERGROUND ELECTRIC       |
| --- | EXISTING FIBER OPTIC                |
| --- | EXISTING OVERHEAD ELECTRIC          |
| --- | EXISTING TELEPHONE                  |
| --- | EXISTING STORM DRAIN                |
| ⊗   | EXISTING SANITARY MANHOLE           |
| ⊗   | EXISTING GATE VALVE                 |
| ⊗   | EXISTING WATER METER                |

DIMENSIONAL CONTROL PLAN

JPS CAMPUS  
FIBER LOOP PROJECT  
FORT WORTH, TX



12/23/2025



JOB NO. 12229.001

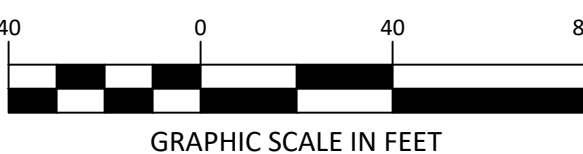
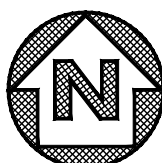
DESIGNED BY: HB

DRAWN BY: AC/EG

CHECKED BY: HB

DATE: DEC 2025

SHEET: C2.1





MATCH LINE SHEET C2.1

**WARNING TO CONTRACTOR:**

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FORT WORTH TPW (817) 392-8100  
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AT&T (817) 338-6202  
VERIZON (800) 483-1000  
AT&T (800) 817-8080  
AT&T (888) 215-6888  
AT&T (900) 521-0579

**UTILITY LEGEND**

- PROPERTY BOUNDARY
- ADJOINERS
- FIBER OPTIC LINE
- FIBER OPTIC LINE (BY OTHERS)
- STORM DRAIN (BY OTHERS)
- WATER LINE (BY OTHERS)
- SANITARY SEWER LINE (BY OTHERS)
- GAS LINE (BY OTHERS)
- OVERHEAD ELECTRIC (BY OTHERS)
- UNDERGROUND ELECTRIC (BY OTHERS)
- SANITARY SEWER MANHOLE (BY OTHERS)
- SANITARY SEWER CLEANOUT (BY OTHERS)
- WATER METER (BY OTHERS)
- FIRE HYDRANT (BY OTHERS)
- GATE VALVE (BY OTHERS)
- EXISTING SANITARY SEWER LINE
- EXISTING WATER LINE
- EXISTING GAS LINE
- EXISTING UNDERGROUND ELECTRIC
- EXISTING FIBER OPTIC
- EXISTING OVERHEAD ELECTRIC
- EXISTING TELEPHONE
- EXISTING STORM DRAIN
- EXISTING SANITARY MANHOLE
- EXISTING GATE VALVE
- EXISTING WATER METER

- GENERAL NOTES**
- CONFIRM EXISTING CONDITIONS IN THE FIELD PRIOR TO PERFORMING ANY WORK.
  - EXISTING BUILDINGS ARE TO REMAIN OPERATIONAL THROUGHOUT CONSTRUCTION. COORDINATE ANY UNFORESEEN OUTAGES WITH THE JPS I.T. MANAGER PRIOR TO PERFORMING THE WORK.
  - COORDINATE COMMUNICATION PATHWAY SYSTEMS WITH OTHER UTILITIES PRIOR TO INSTALLATION.
  - COORDINATE ENTRY INTO THE BUILDING WITH JPS PDC AND STRUCTURAL ENGINEERS PRIOR TO INSTALLATION.
  - REFER TO TECHNOLOGY PLANS FOR HAND HOLE / VAULT DETAILS FOR SPECIFICATIONS ON CONDUIT PENETRATIONS, INCLUDING REQUIRED QUANTITIES AND ADDITIONAL INSTALLATION REQUIREMENTS.
  - CONDUIT FROM HAND HOLES/VAULTS TO BUILDINGS TO BE INSTALLED BY OTHERS AND SHOWN FOR REFERENCE ONLY.
  - CONDUITS CROSSING PUBLIC RIGHT-OF-WAY TO BE PLACED IN SINGLE BORE PIPES UNLESS NOTED OTHERWISE. REFER TO CIVIL ENCROACHMENT AGREEMENT EXHIBITS FOR CROSSINGS AND DEPTH.

| REVISIONS |            | DESCRIPTION |
|-----------|------------|-------------|
| NO.       | DATE       |             |
| 1         | 11/07/2025 | ADDENDUM #1 |
|           |            | #           |
|           |            | #           |
|           |            | #           |
|           |            | #           |

**DUNAWAY**

550 Bailey Avenue • Suite 400 • Fort Worth, Texas 76107  
Tel: 817.355.1121  
Fax: 817.355.1114

**DIMENSIONAL CONTROL PLAN**

JPS CAMPUS  
FIBER LOOP PROJECT  
FORT WORTH, TX

12/23/2025

HUNTER M. BRAUER  
138744  
REGISTERED PROFESSIONAL ENGINEER  
STATE OF TEXAS

JOB NO. 12229.001

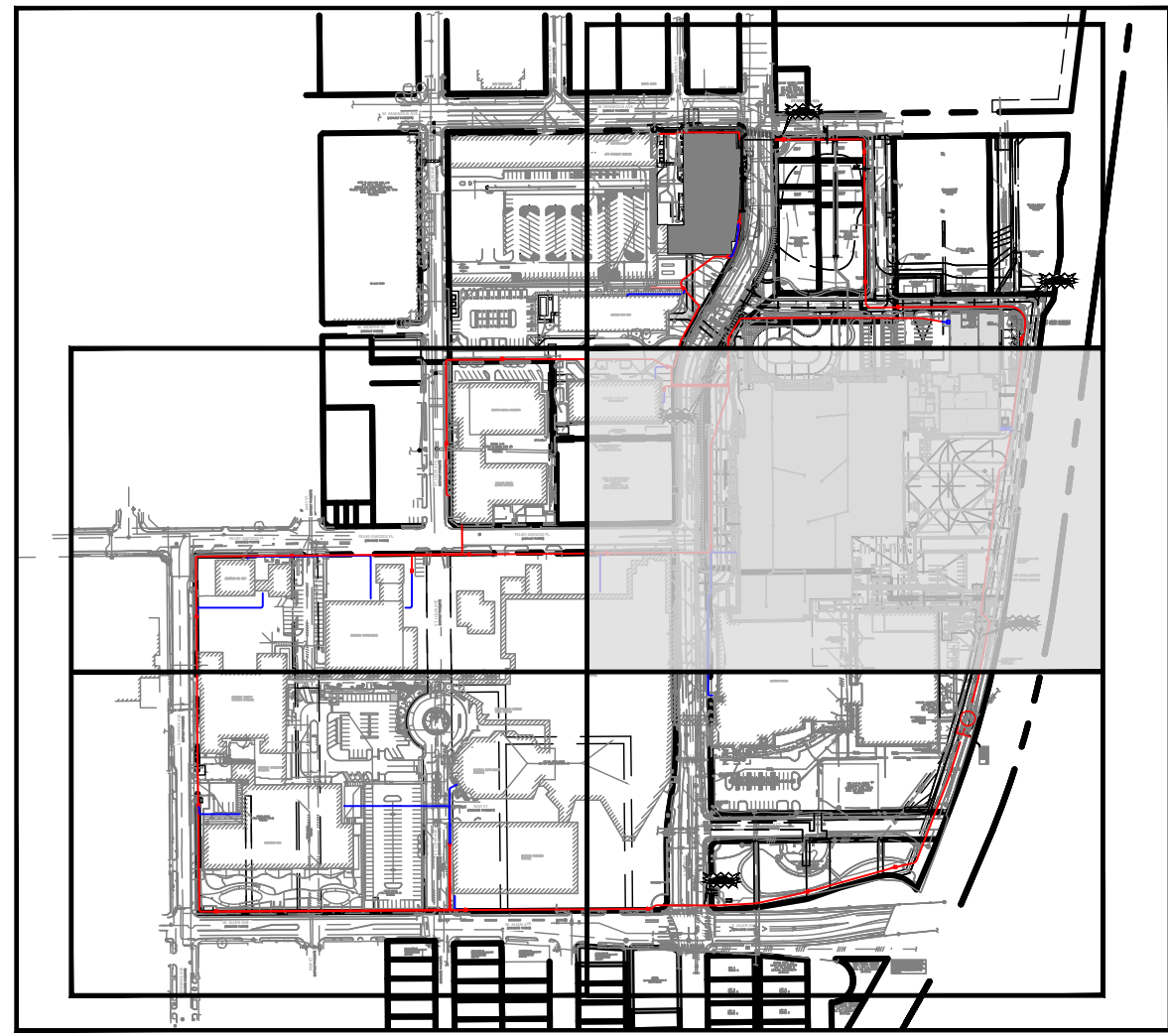
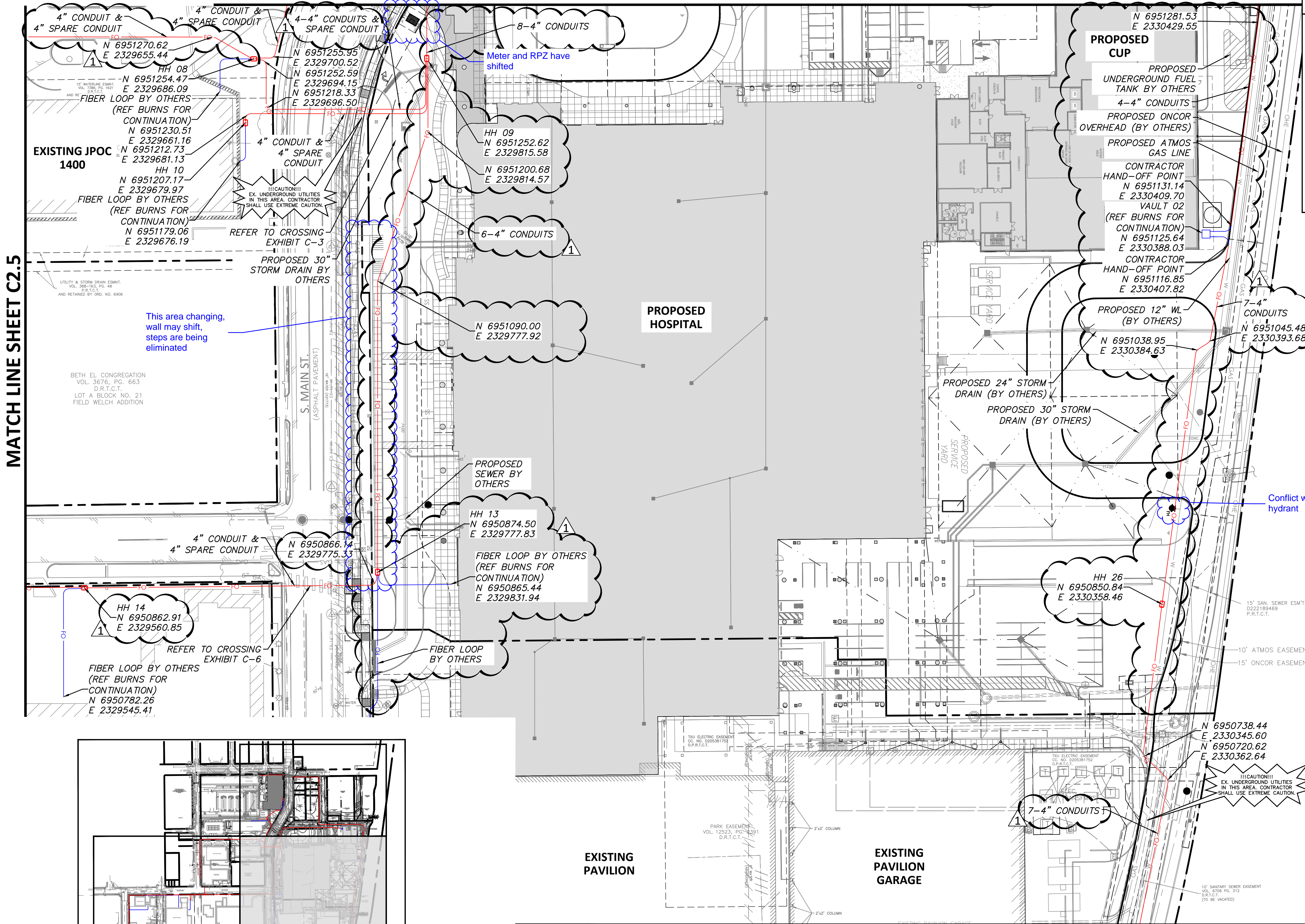
DESIGNED BY: HB

DRAWN BY: AC/EG

CHECKED BY: HB

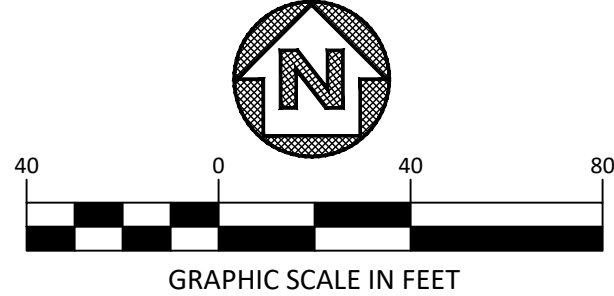
DATE: DEC 2025

SHEET: C2.2



KEY MAP

MATCH LINE SHEET C2.3



FILE PATH: P:\PROJECTS\12229.001\DWG\12229.001\_C2.1.dwg  
PLOTTER: HP DesignJet T1130  
PLOTTER DRIVER: HPGL-ET  
PLOTTER SETTINGS: 11x17, Landscape, 1/8\"/>



## MATCH LINE SHEET C2.4



|  |                                     |
|--|-------------------------------------|
|  | PROPERTY BOUNDARY                   |
|  | ADJOINERS                           |
|  | FIBER OPTIC LINE                    |
|  | FIBER OPTIC LINE (BY OTHERS)        |
|  | STORM DRAIN (BY OTHERS)             |
|  | WATER LINE (BY OTHERS)              |
|  | SANITARY SEWER LINE (BY OTHERS)     |
|  | GAS LINE (BY OTHERS)                |
|  | OVERHEAD ELECTRIC (BY OTHERS)       |
|  | UNDERGROUND ELECTRIC (BY OTHERS)    |
|  | SANITARY SEWER MANHOLE (BY OTHERS)  |
|  | SANITARY SEWER CLEANOUT (BY OTHERS) |
|  | WATER METER (BY OTHERS)             |
|  | FIRE HYDRANT (BY OTHERS)            |
|  | GATE VALVE (BY OTHERS)              |
|  |                                     |

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| REVISIONS |            |             |
|-----------|------------|-------------|
| NO.       | DATE       | DESCRIPTION |
| 1         | 11/07/2025 | ADDENDUM #1 |
| #         | #          | #           |
| #         | #          | #           |
| #         | #          | #           |
| #         | #          | #           |

JPS CAMPUS  
FIBER LOOP PROJECT  
FORT WORTH, TX

---

DIMENSIONAL CONTROL PLAN

---



550 Bailey Avenue • Suite 400 • Fort Worth, Texas 76107  
Phone: 817.235.1721  
Fax: 817.235.1714

12/23/2025

STATE OF TEXAS  
1845  
HUNTER W. BRAUER  
138744  
LICENSED  
HUNTER

*Hunter Brauer*

|              |           |
|--------------|-----------|
| JOB NO.      | 12229.001 |
| DESIGNED BY: | HB        |
| DRAWN BY:    | AC/EG     |
| CHECKED BY:  | HB        |
| DATE:        | DEC 2025  |
| SHEET:       | C2.3      |



FILE PATH: P:\PROJECTS\122229\122229-001\DWG\122229-001-DIMENSIONAL CONTROL PLAN.dwg

FILE NAME: 122229-001-DIMENSIONAL CONTROL PLAN.dwg  
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PLOTTER DATE: 12/23/2025  
PLOTTER USER: J. BRAUER  
PLOTTER SYSTEM: HP DesignJet 2400



KEY MAP

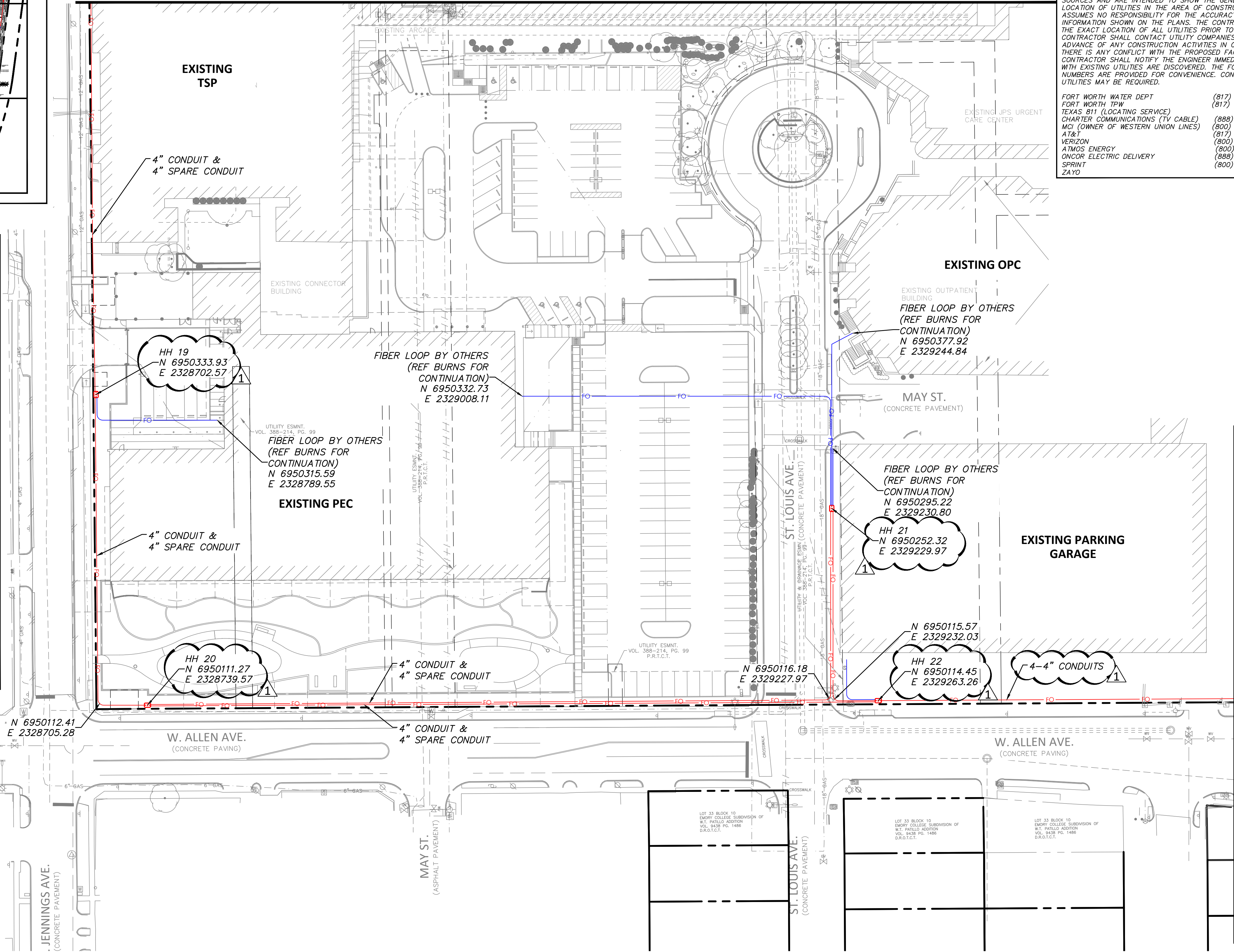
UTILITY LEGEND

|     |                                     |
|-----|-------------------------------------|
| --- | PROPERTY BOUNDARY                   |
| --- | ADJOINERS                           |
| FO  | FIBER OPTIC LINE                    |
| FO  | FIBER OPTIC LINE (BY OTHERS)        |
| --- | STORM DRAIN (BY OTHERS)             |
| W   | WATER LINE (BY OTHERS)              |
| SS  | SANITARY SEWER LINE (BY OTHERS)     |
| GAS | GAS LINE (BY OTHERS)                |
| OHE | OVERHEAD ELECTRIC (BY OTHERS)       |
| UE  | UNDERGROUND ELECTRIC (BY OTHERS)    |
| ●   | SANITARY SEWER MANHOLE (BY OTHERS)  |
| ●   | SANITARY SEWER CLEANOUT (BY OTHERS) |
| ⊗   | WATER METER (BY OTHERS)             |
| ●   | FIRE HYDRANT (BY OTHERS)            |
| ⊗   | GATE VALVE (BY OTHERS)              |
| --- | EXISTING SANITARY SEWER LINE        |
| --- | EXISTING WATER LINE                 |
| --- | EXISTING GAS LINE                   |
| --- | EXISTING UNDERGROUND ELECTRIC       |
| --- | EXISTING FIBER OPTIC                |
| --- | EXISTING OVERHEAD ELECTRIC          |
| --- | EXISTING TELEPHONE                  |
| --- | EXISTING STORM DRAIN                |
| ⊗   | EXISTING SANITARY MANHOLE           |
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MATCH LINE SHEET C2.5



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|                                    |                |
|------------------------------------|----------------|
| FORT WORTH WATER DEPT              | (817) 392-8296 |
| FORT WORTH TPW                     | (817) 392-8100 |
| TEXAS 811 (LOCATING SERVICE)       | 811            |
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| MCI (OWNER OF WESTERN UNION LINES) | (800) 624-9675 |
| AT&T                               | (817) 336-6202 |
| VERIZON                            | (800) 483-1000 |
| ATMOS ENERGY                       | (800) 817-8080 |
| ONCOR ELECTRIC DELIVERY            | (888) 215-6688 |
| SPRINT                             | (800) 521-0579 |
| ZAYO                               |                |

REVISIONS

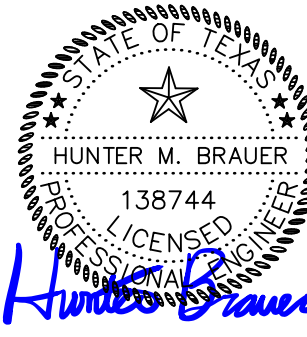
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| 1   | 11/07/2025 | ADDENDUM #1 |
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| #   | #          | #           |
| #   | #          | #           |

DIMENSIONAL CONTROL PLAN



JPS CAMPUS  
FIBER LOOP PROJECT  
FORT WORTH, TX

12/23/2025



JOB NO. 12229.001

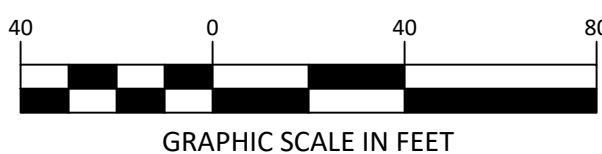
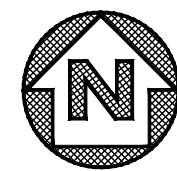
DESIGNED BY: HB

DRAWN BY: AC/EG

CHECKED BY: HB

DATE: DEC 2025

SHEET: C2.4





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UTILITY LEGEND

|  |                                     |
|--|-------------------------------------|
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|  | EXISTING WATER LINE                 |
|  | EXISTING GAS LINE                   |
|  | EXISTING UNDERGROUND ELECTRIC       |
|  | EXISTING FIBER OPTIC                |
|  | EXISTING OVERHEAD ELECTRIC          |
|  | EXISTING TELEPHONE                  |
|  | EXISTING STORM DRAIN                |
|  | EXISTING SANITARY MANHOLE           |
|  | EXISTING GATE VALVE                 |
|  | EXISTING WATER METER                |

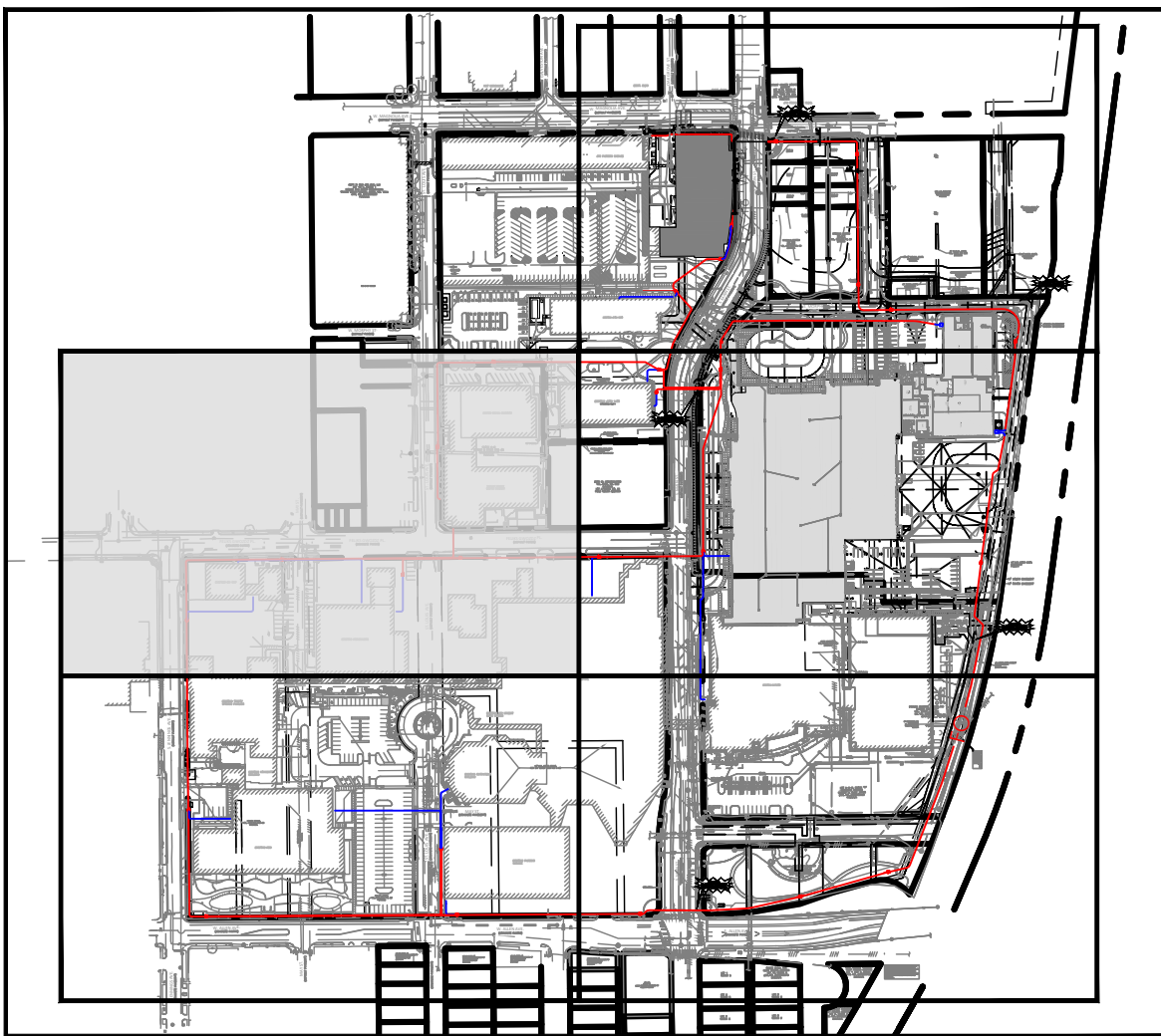
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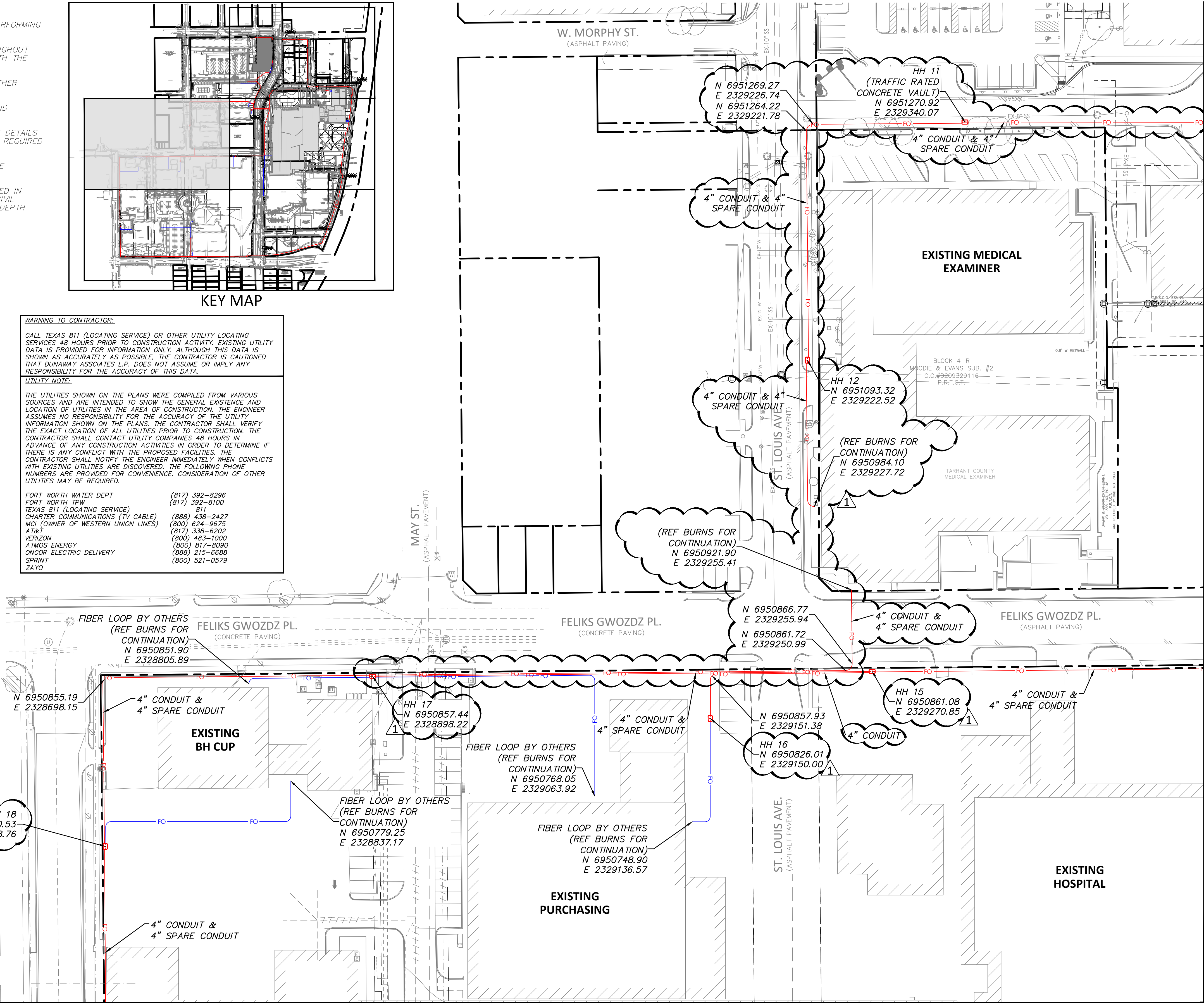
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ATMOS ENERGY (800) 817-8090  
ONCOR ELECTRIC DELIVERY (888) 215-6688  
SPRINT (800) 521-0579  
ZAYO



KEY MAP



MATCH LINE SHEET C2.4

MATCH LINE SHEET C2.2

| REVISIONS |          | DESCRIPTION |
|-----------|----------|-------------|
| NO.       | DATE     |             |
| 1         | 12/22/25 | ADDENDUM #1 |
|           |          | #           |
|           |          | #           |
|           |          | #           |
|           |          | #           |

DUNAWAY

550 Bailey Avenue • Suite 400 • Fort Worth, Texas 76107  
Tel: 817.335.1121  
Fax: 817.335.1114

DIMENSIONAL CONTROL PLAN

JPS CAMPUS  
FIBER LOOP PROJECT  
FORT WORTH, TX

12/23/2025

HUNTER M. BRAUER  
138744  
LICENSED PROFESSIONAL ENGINEER

Hunter M. Brauer

JOB NO. 12229.001

DESIGNED BY: HB

DRAWN BY: AC/EG

CHECKED BY: HB

DATE: DEC 2025

SHEET: C2.5

