

C_13 – Broadway Corridor Project Package B

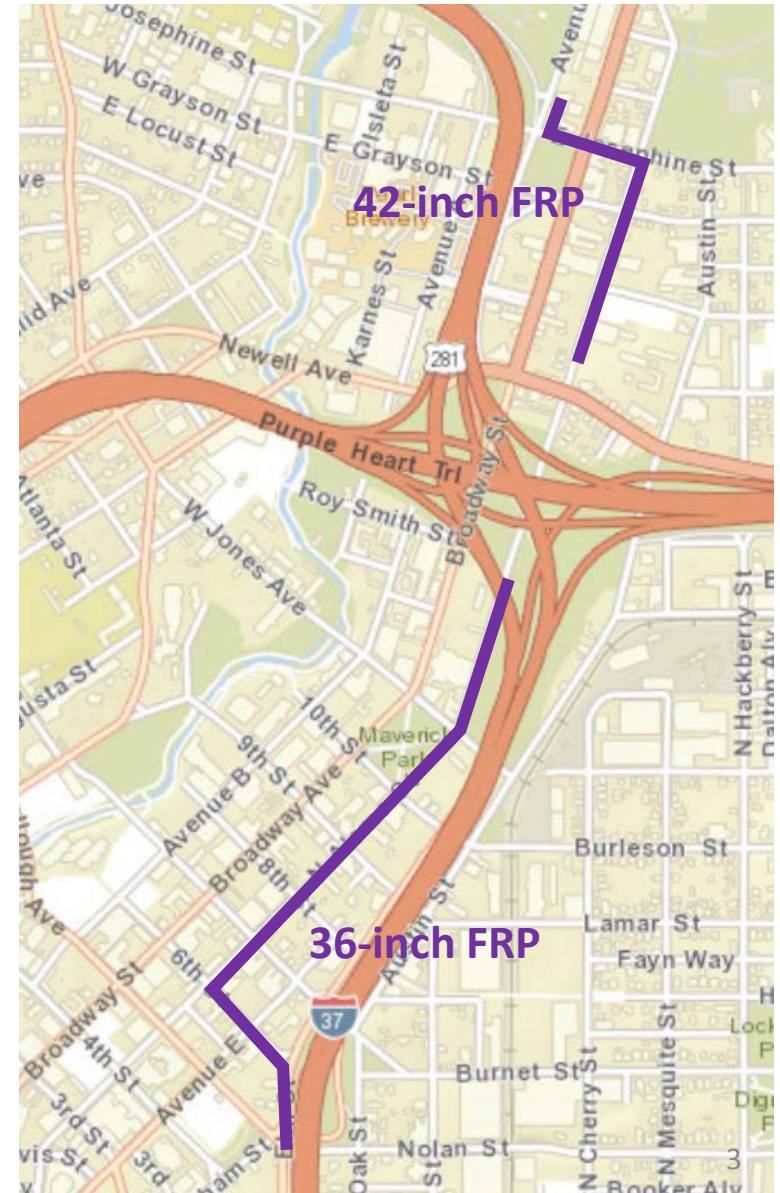
Pre-Bid Conference

SAWS Job 16-4508

May 26, 2017

Project Description: New Sewer Interceptor

- Approximately 6,000 linear feet of new 36-inch and 42-inch FRP
- Fiberglass Reinforced Pipe (FRP) by open cut per Technical Specification 33 05 01.08

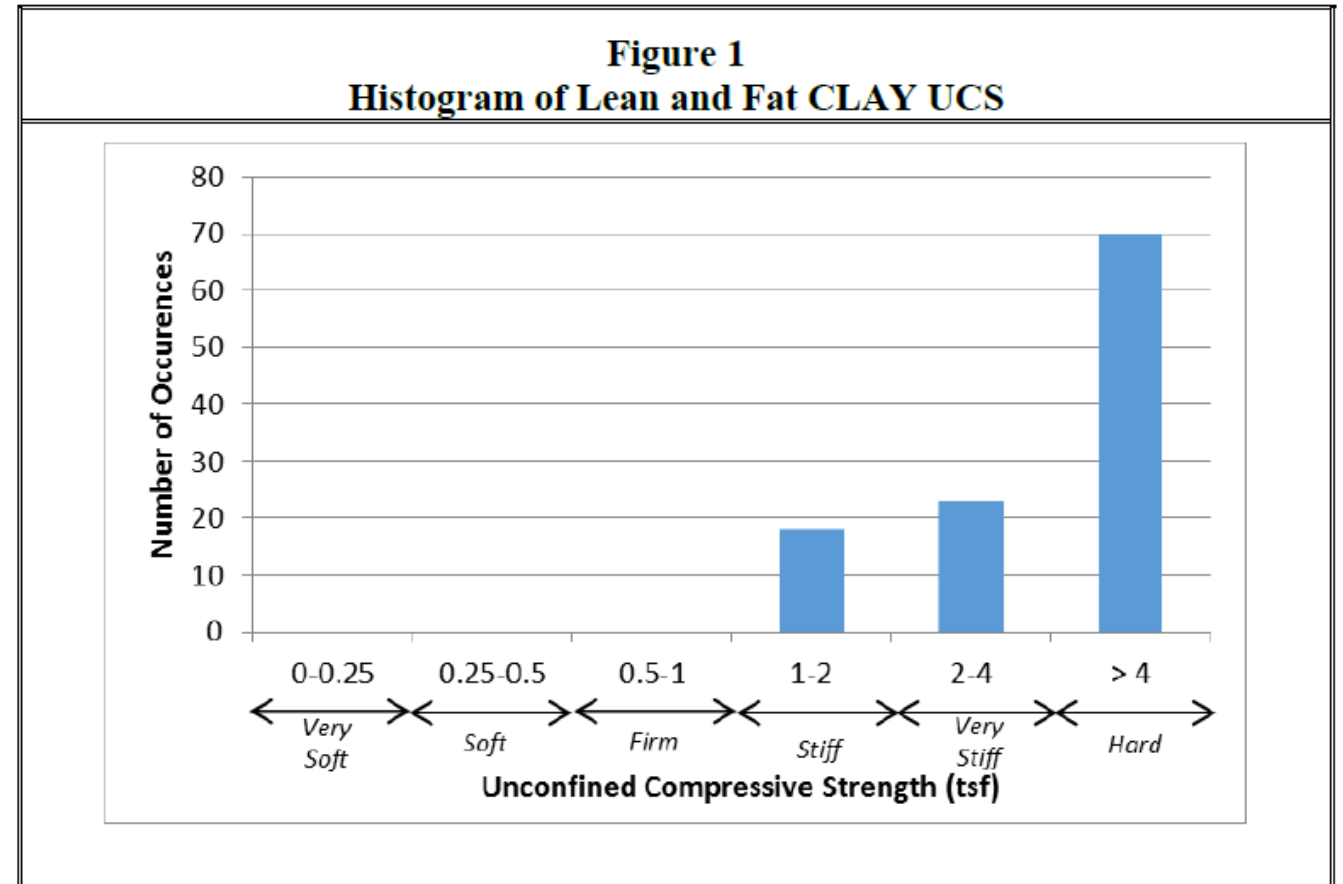


Project Description: Tunneling

3.01 GEOTECHNICAL CONDITIONS

- A. Crossing of E. Jones Avenue: The carrier pipe is the long crossing. The crossing will encounter cemented lean and fat clay (with up to 25 percent carbonate content). Groundwater will not be encountered at or below the invert of the pipe.
- B. Crossing of IH 37 SB Overpass (TXDOT): The carrier pipe will be installed using welded steel jacking pipe, per TXDOT requirements. The crossing will encounter a mixture of cemented lean and fat clay (with up to 25 percent carbonate content) and silty and clayey gravel (GM and GC). The gravel will be above the springline. Groundwater will be encountered at or below the invert of the pipe. Soils above and below the jacking pipe will consist of lean and fat clay (CL and CH).
- C. Parallel encroachment of North Alamo Street: The carrier pipe will be installed using welded steel jacking pipe. The crossing will encounter stiff to hard lean and fat clay (CL and CH). Groundwater will be encountered at or below the invert of the pipe.
- D. Crossing of Broadway: The carrier pipe will be installed using welded steel jacking pipe, per TXDOT requirements. The crossing will encounter a mixture of cemented lean and fat clay (with up to 25 percent carbonate content) and silty and clayey gravel with sand (GC and GM) and silty and clayey sand (SM and SC). Minimum fines content will be 12 percent. Groundwater will be encountered at or below the invert of the jacking pipe. Soils above the jacking pipe will consist of firm to hard lean and fat clay (CL and CH) at the west end of the crossing and clayey and silty lean and fat clay (CL and CH) and silty and clayey gravel (GM) at the east end of the crossing.

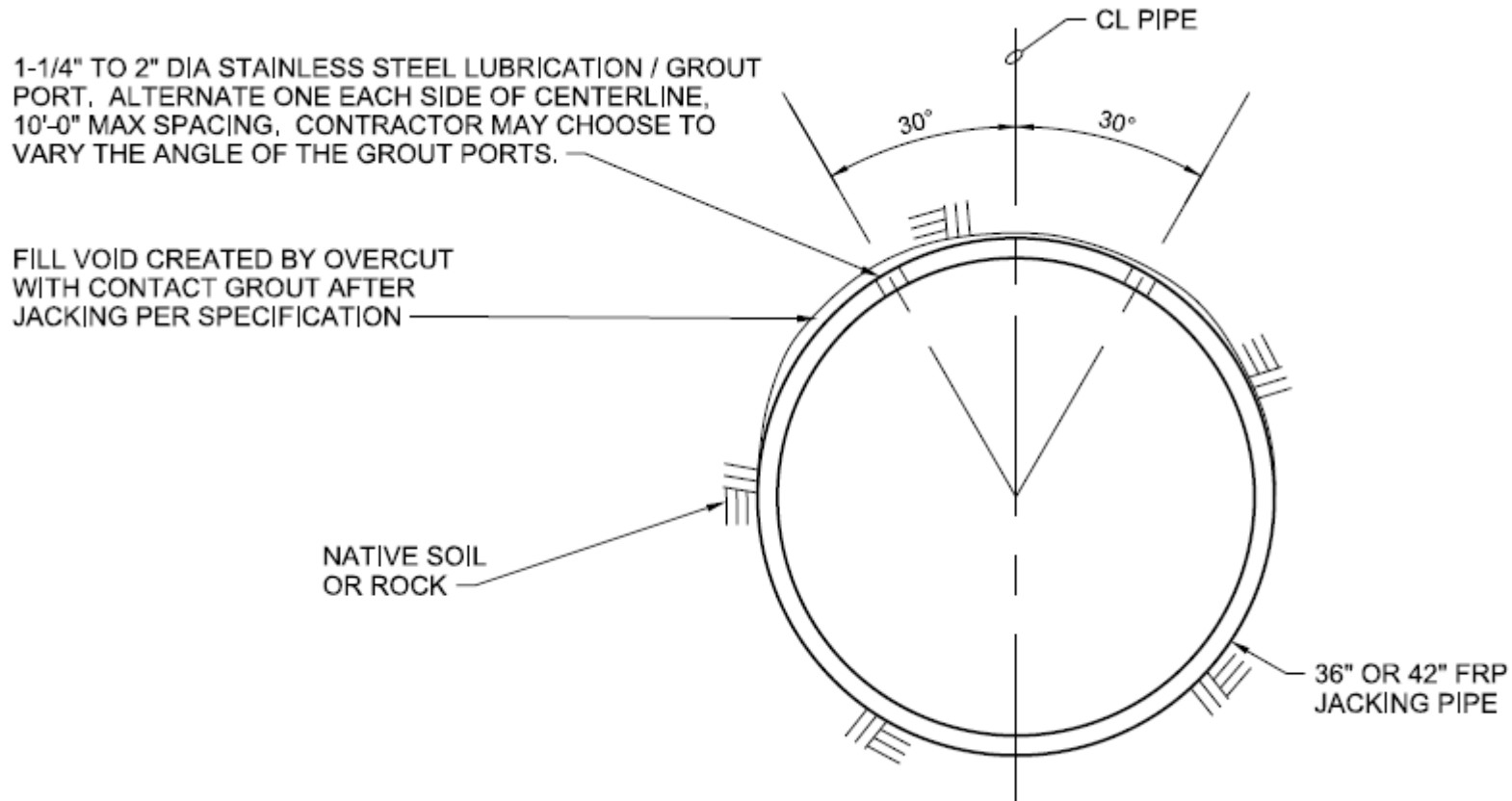
- E. A histogram of collected Unconfined Compressive Strength (UCS) data is presented below in Figure 1. The maximum reported UCS of the lean and fat clay (CL and CH) is 11 tons per square foot. Contractor shall anticipate a maximum value of 14 tsf (a 25-percent increase of the reported value, based on measured strengths of clay shales at the site).



Project Description: Tunneling, Cont.

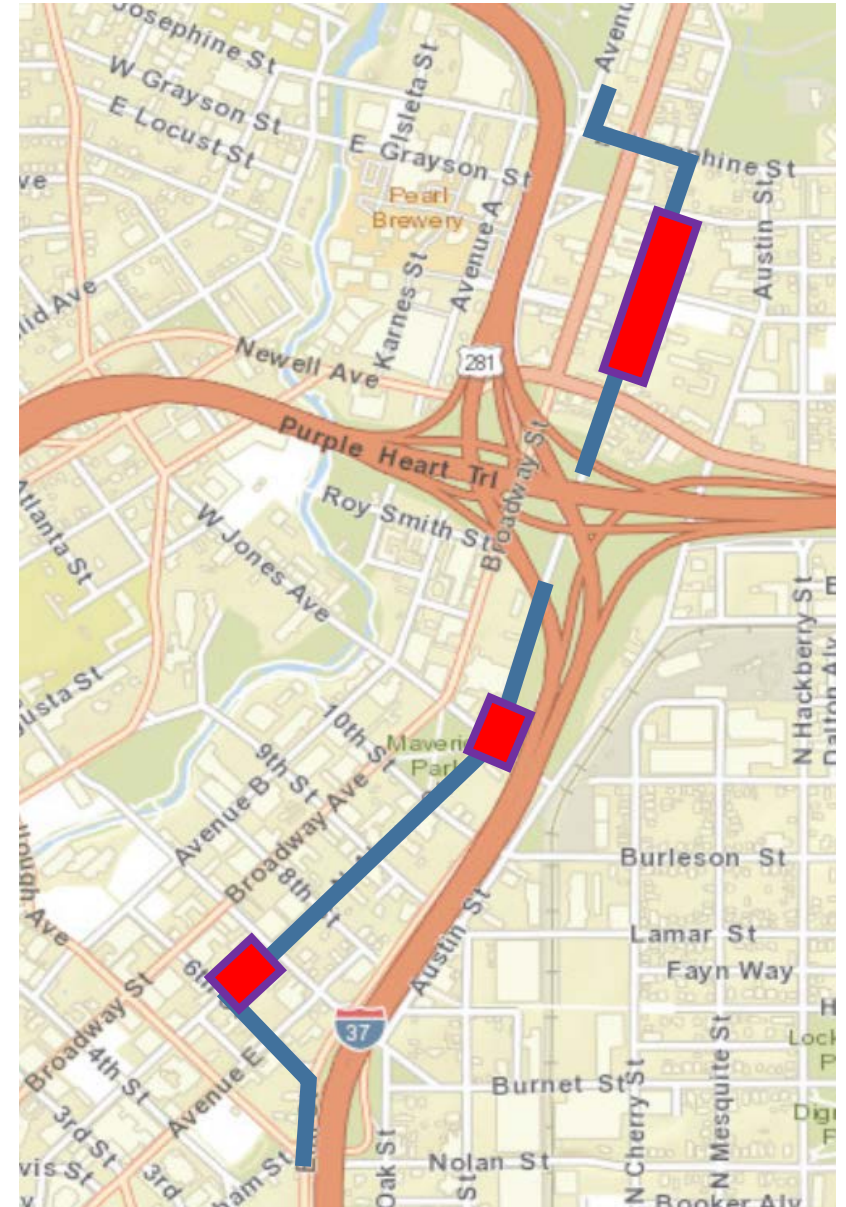
- Minimum experience required
- Tunneling Work Plan to be submitted
- Installation of settlement instrumentation

Project Description: Tunnel - New Interceptor

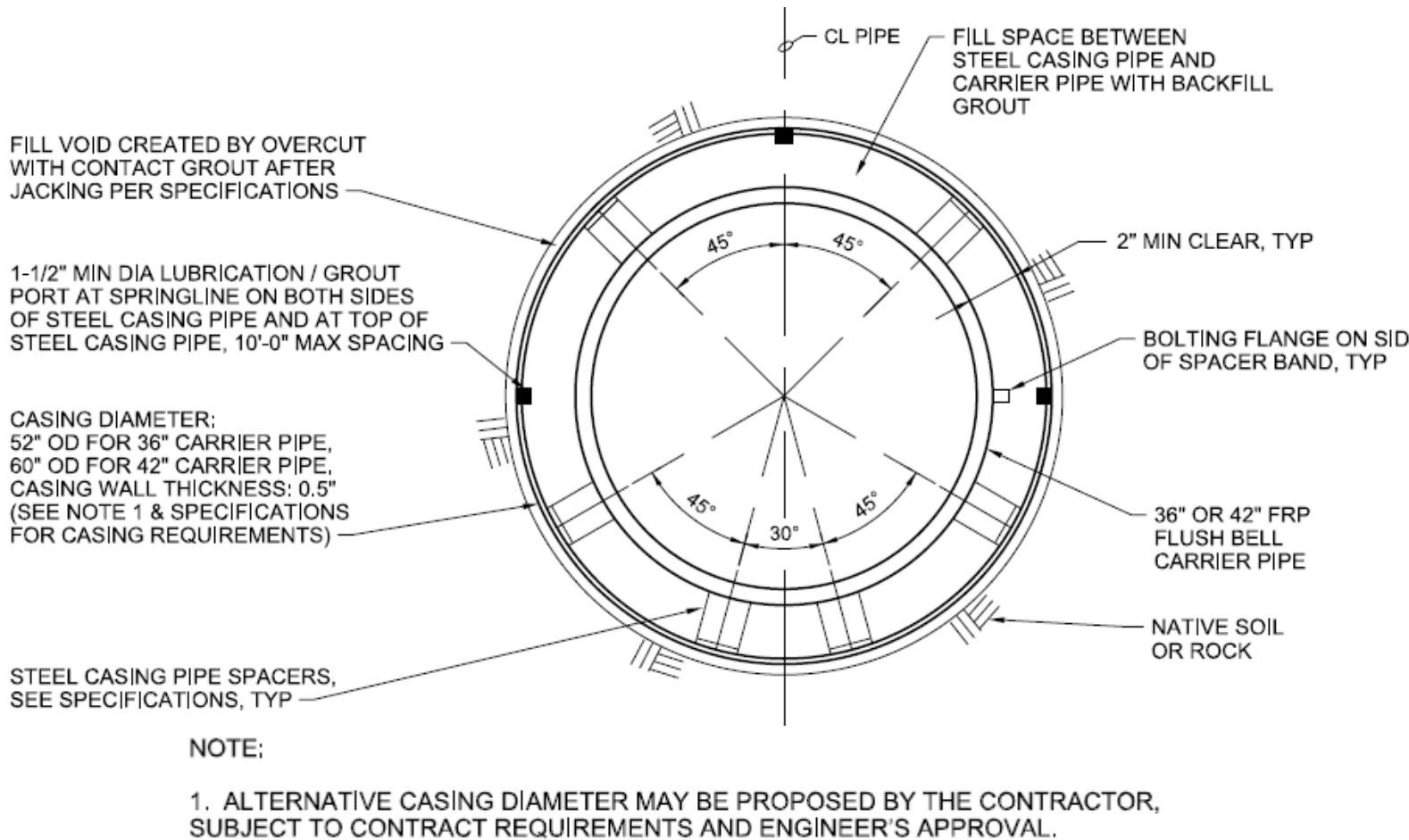


FRP TUNNEL DETAIL, JACKING PIPE

NTS



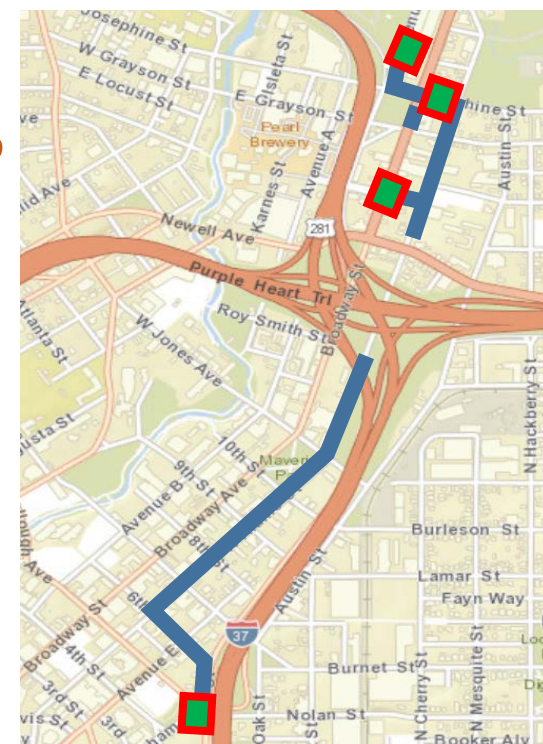
Project Description: Tunnel - New Interceptor



FRP TUNNEL DETAIL, FLUSH BELL PIPE (WITH CASING P

Project Description: Hydraulic Structures

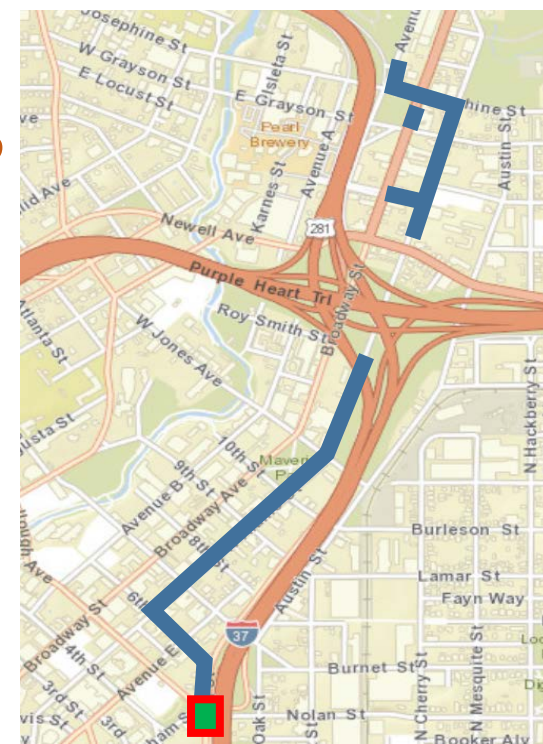
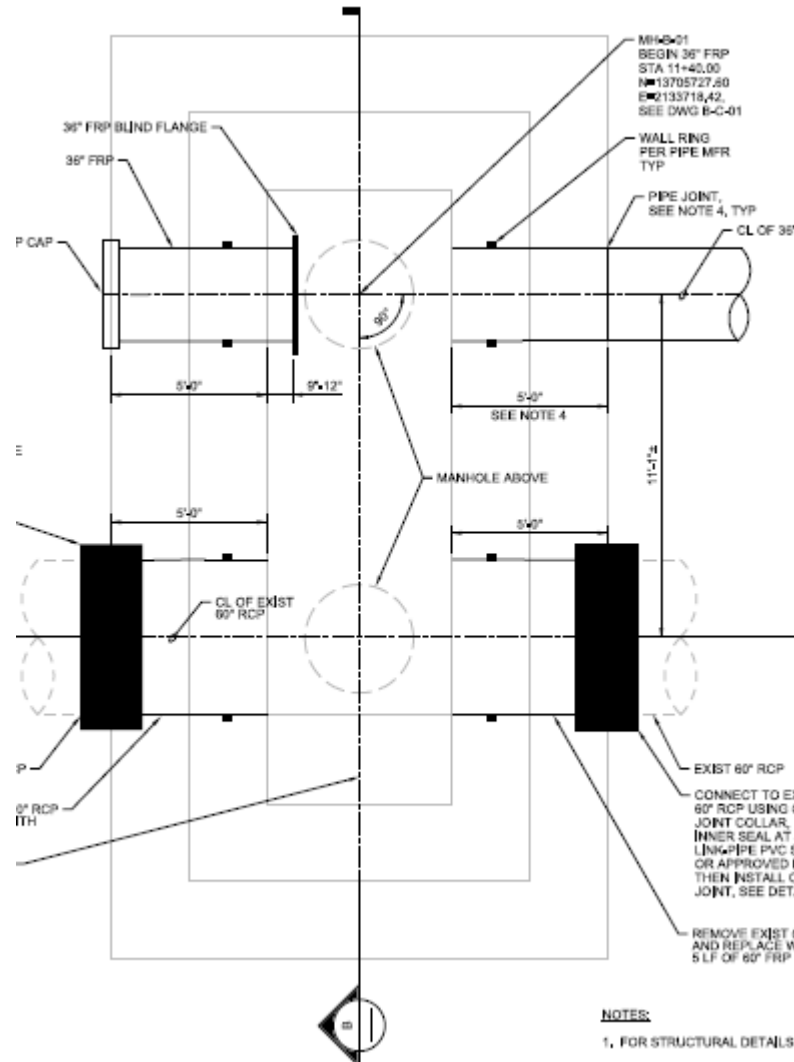
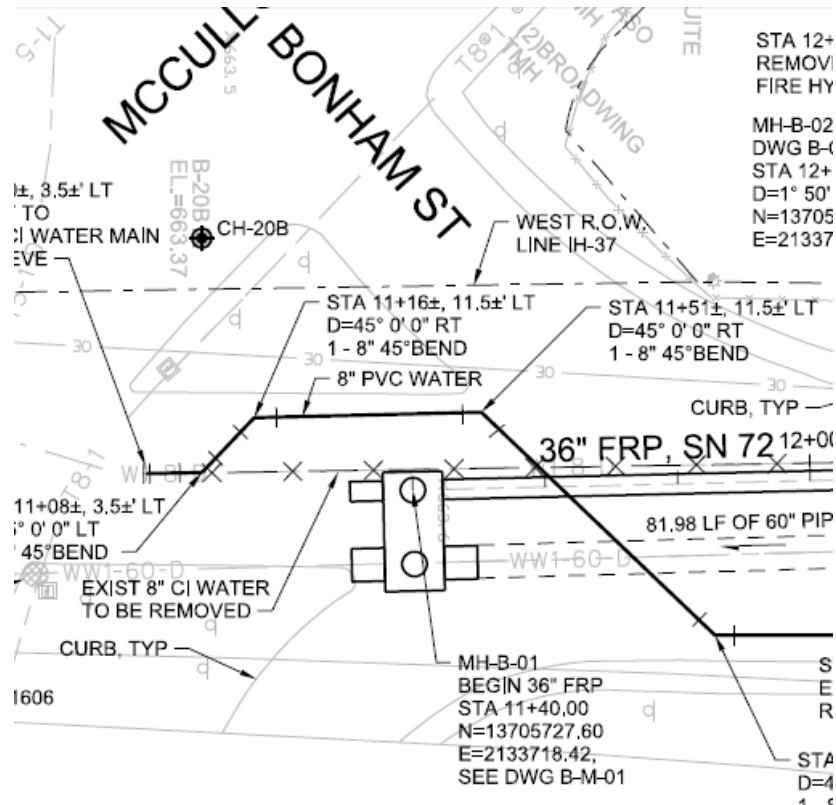
- Terminus structure at Elm St.
- Josephine EQ structure
- Casa Blanca flow splitting structure
- Modifications to MH 101 on Avenue B



NOTE: View animations

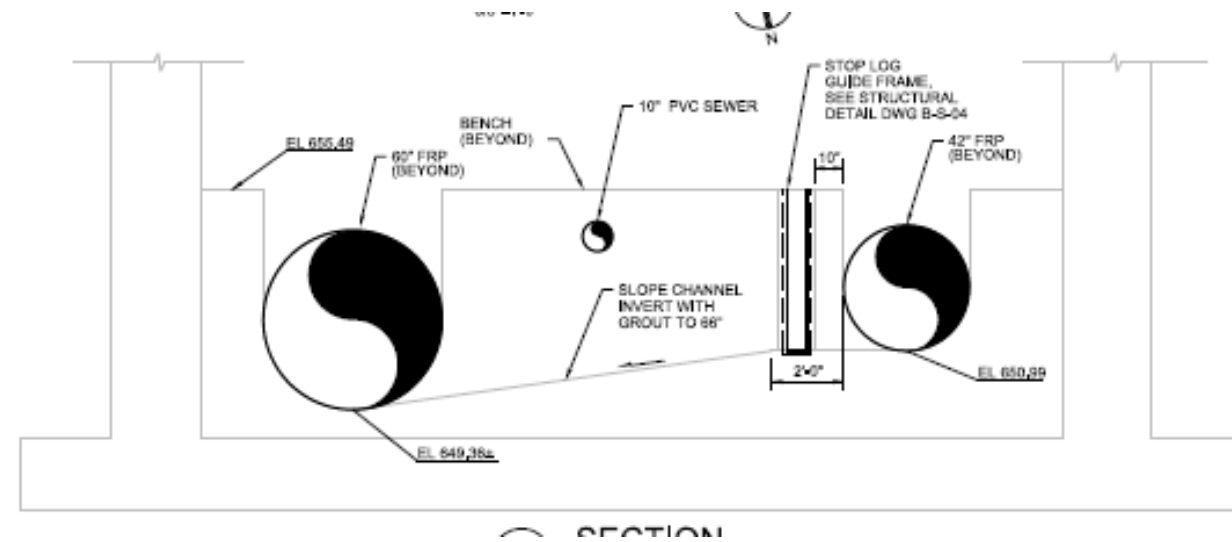
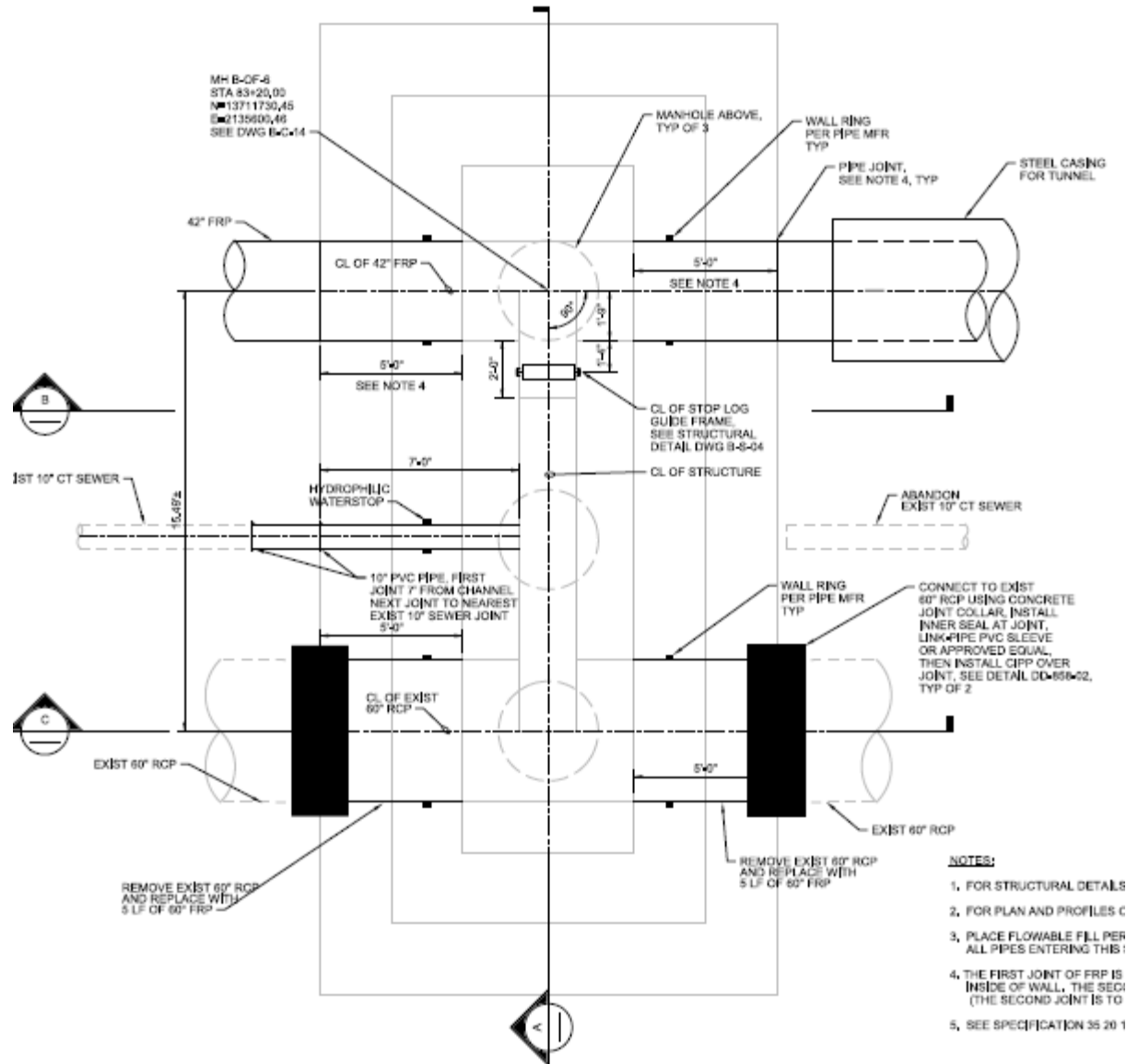
Project Description: Hydraulic Structures

Terminus on Elm St.



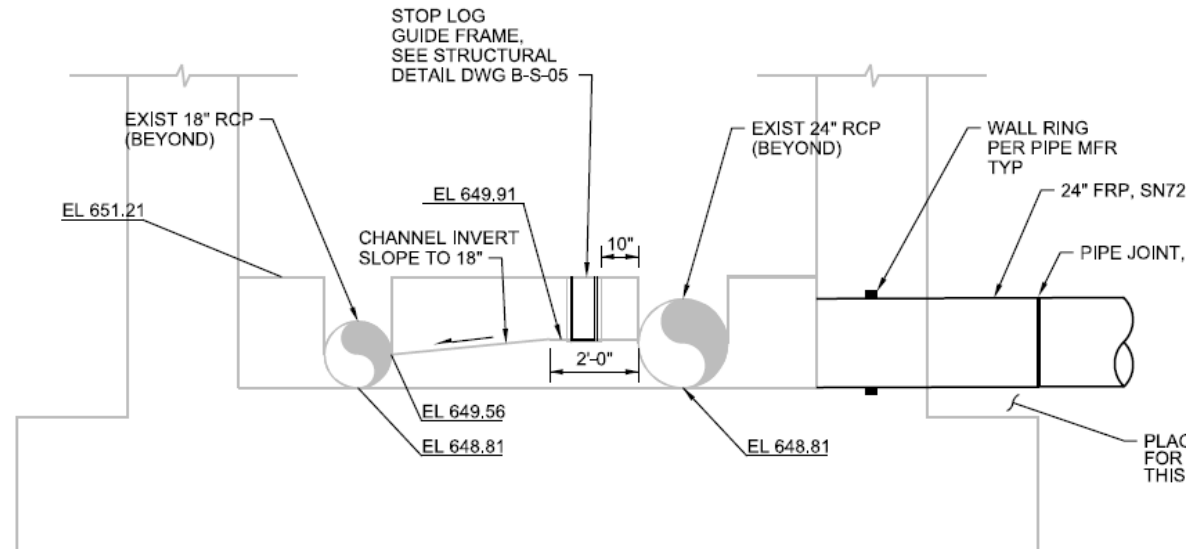
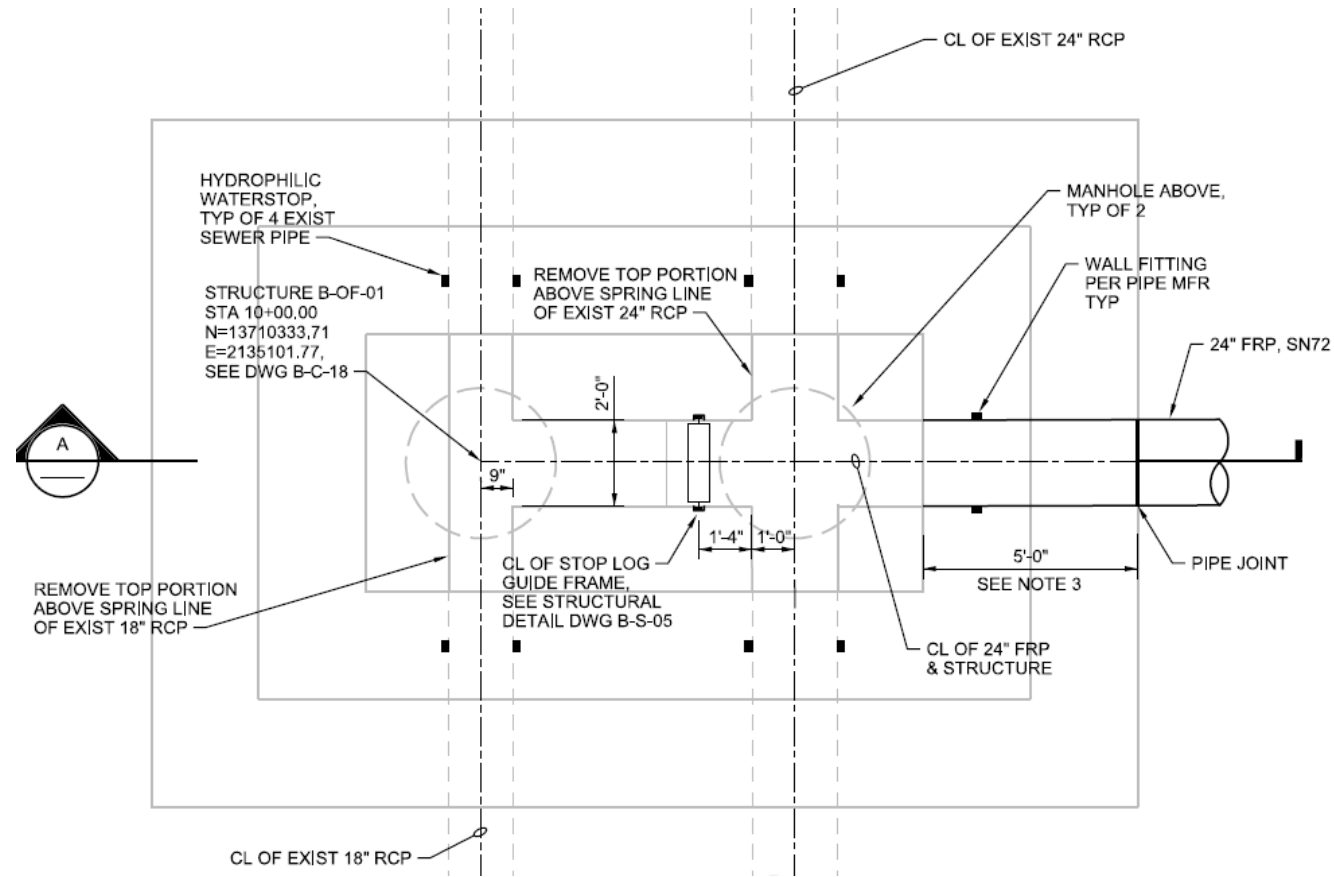
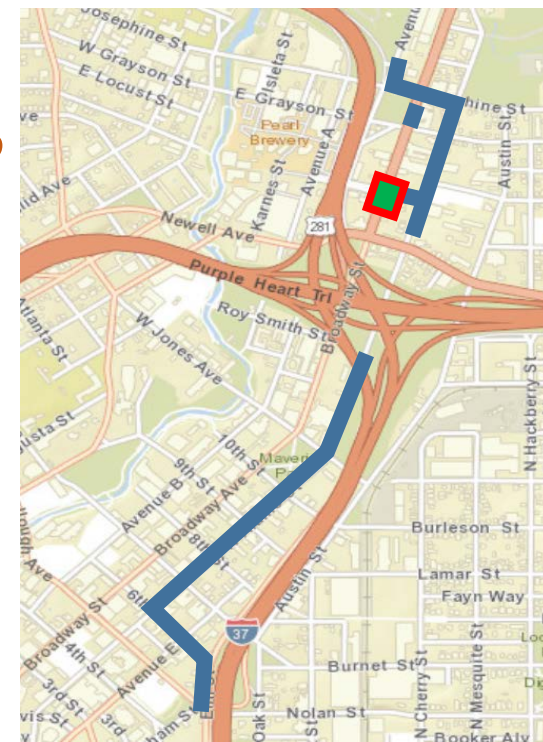
Project Description: Hydraulic Structures

Josephine EQ structure



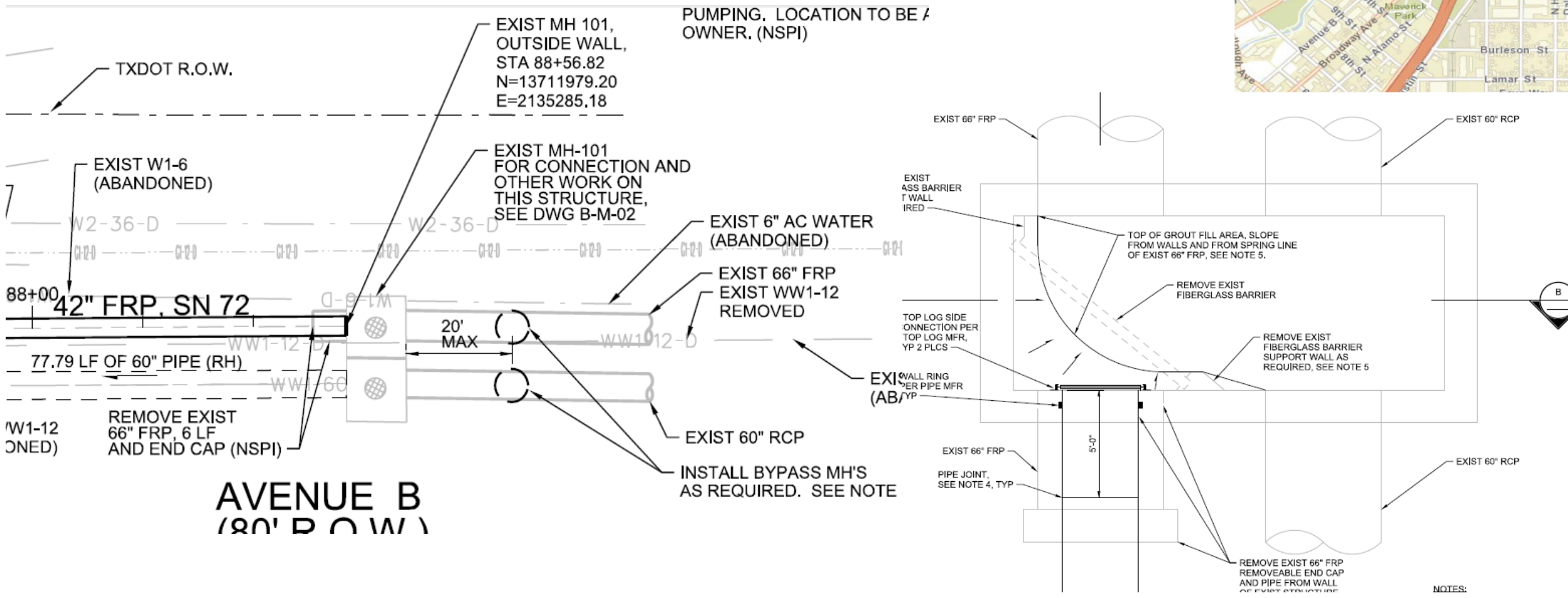
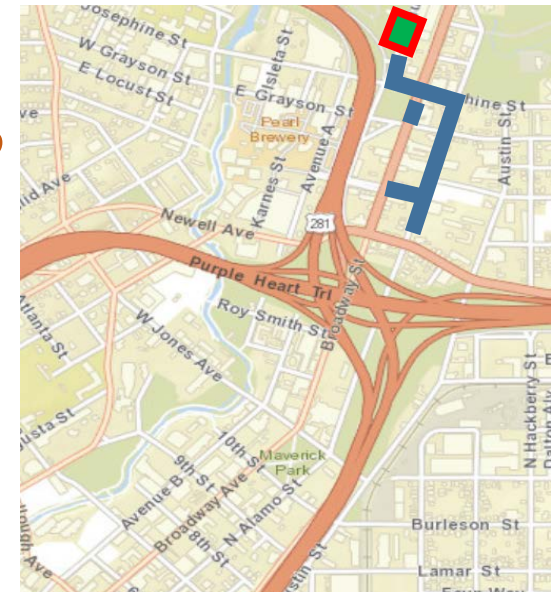
Project Description: Hydraulic Structures

Casa Blanca flow splitting structure (Pre-Fab Polymer Concrete)



Project Description: Hydraulic Structures

Modifications to MH 101 on Avenue B



Project Description: Existing Utility Relocations

- Approximately 2,500 linear feet of relocated 8-inch **water mains** per Spec. Item 812
- Approximately 1,000 linear feet of relocated 10-inch, 18-inch, and 24-inch **sewer lines** per Spec. Item 848 and Special Provision.
- Approximately 1,000 linear feet of remove and replace COSA storm sewer pipe (24-inch and under) and manholes
- Allowance for potential CPS Energy relocations

Project Description:

Bypass Pumping

Bypass pumping per
SAWS Specification
Item 864 S1 and S2

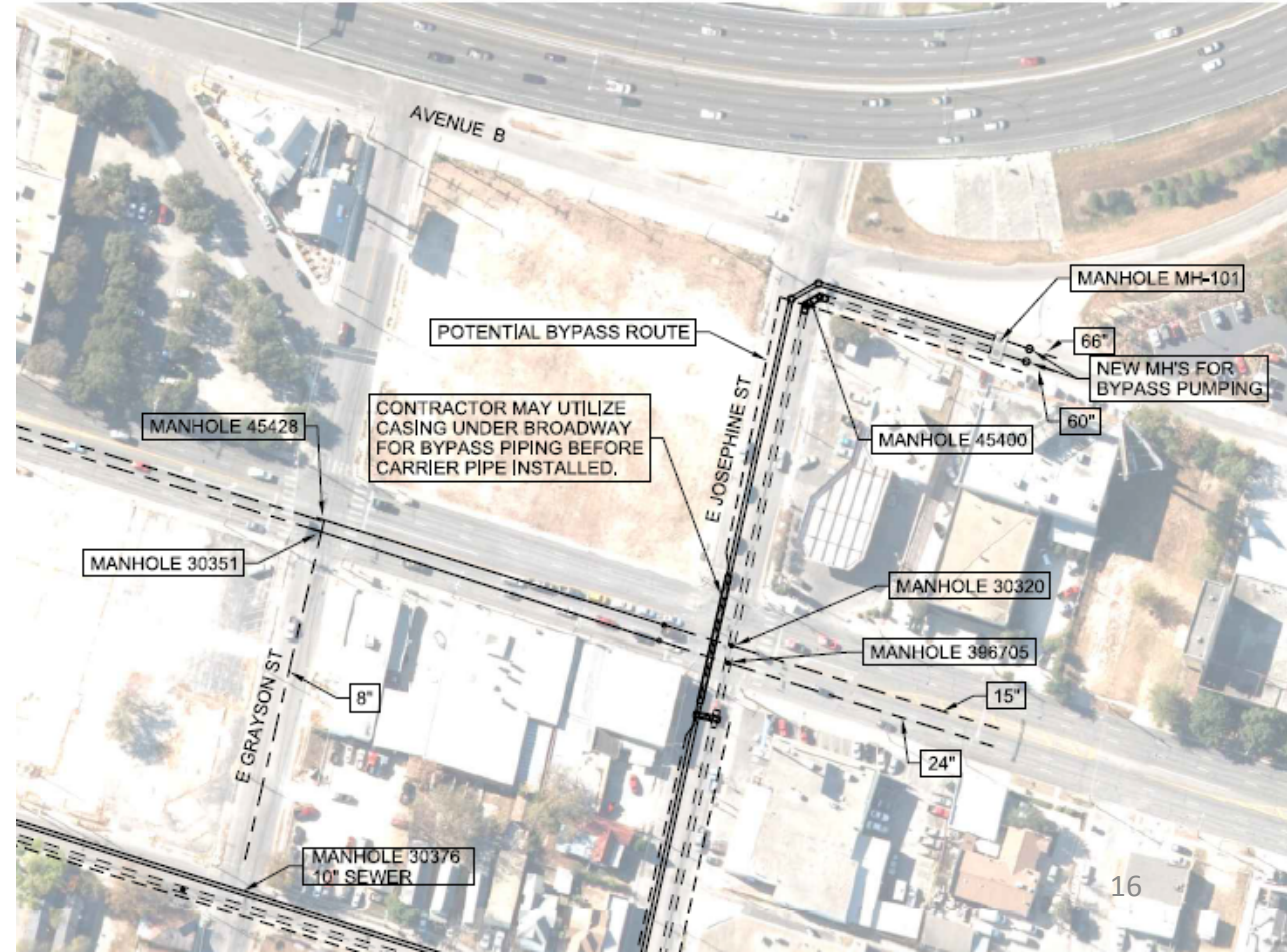
ASS AND PHASING PLAN TO SAWS FOR
COMMENCEMENT OF THE CONSTRUCTION.

LL BE IN ACCORDANCE WITH GUIDELINES
ONTRACTOR SHALL IDENTIFY AND TRAIN
PILLAGE PREVENTION AND CONTROL,
MENT AND EDUCATE EMPLOYEES IN ADVANCE
RONMENT INCLUDING WHAT TO DO WHEN
W TO WORK SAFELY AROUND RAW

E WITH ALL RESPONSIBLE REGULATORY
UIRED PERMITS NECESSARY FOR THE
SHALL OBTAIN ALL NECESSARY DISCHARGE
ASEMENTS FROM GOVERNING AUTHORITIES.
SAWS THE HARD COPIES OF THE OBTAINED
S OBTAINED ARE REQUIRED TO BE LOCATED
S. CONTRACTOR SHALL NOTIFY SAWS TWO
S BYPASS PUMPING. REFER TO THE GENERAL
RACT DOCUMENTS FOR CONTACT INFORMATION.

DW WERE PROVIDED BY SAWS MASTER

MH #	AVE DW FLOW (MGD)	MAX DW FLOW (MGD)	PEAK WW FLOW (MGD)
45400	12.24	19.44	55.008
30212	12.528	19.872	47.52
30356	12.528	19.872	46.8
30376	UNKOWN	UNKOWN	UNKOWN
30379	0.09	0.16	3.45
45428	0	0	3.14
30351	0	0.08	4



Project Description: Restraining of Existing RWL

- 36-inch CSC (AWWA C303)



Project Description: Schedule

- Consent Decree Requirement
- 450 Calendar Days
- No Construction Activities in April



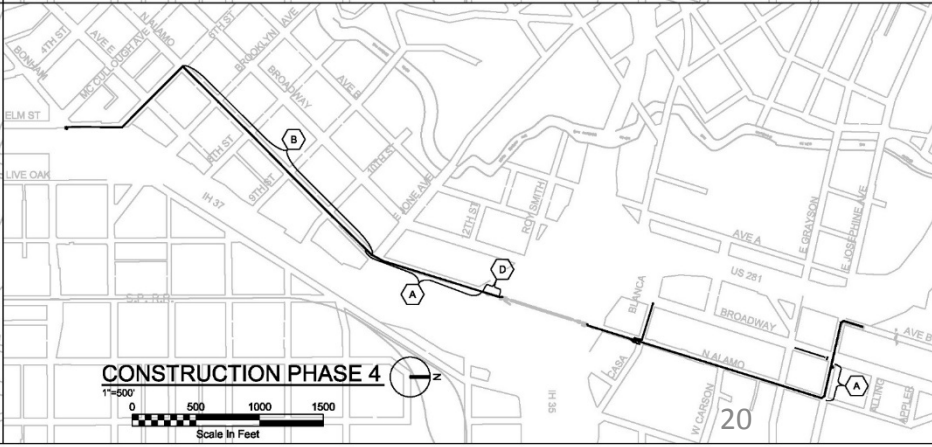
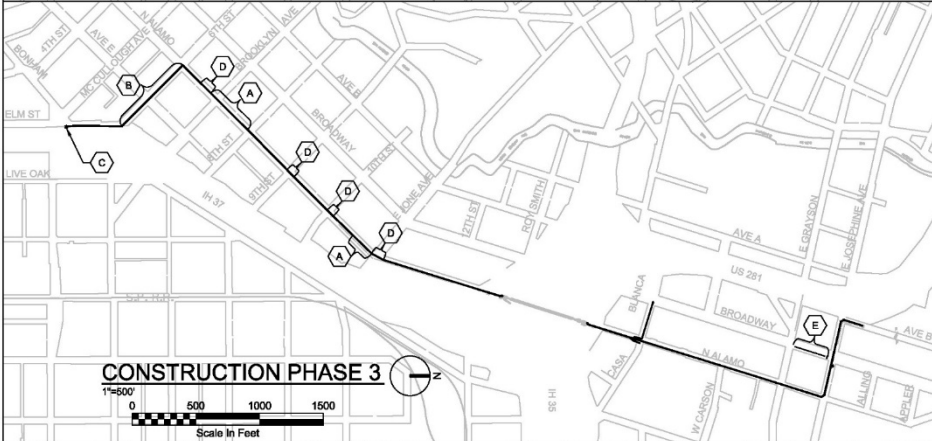
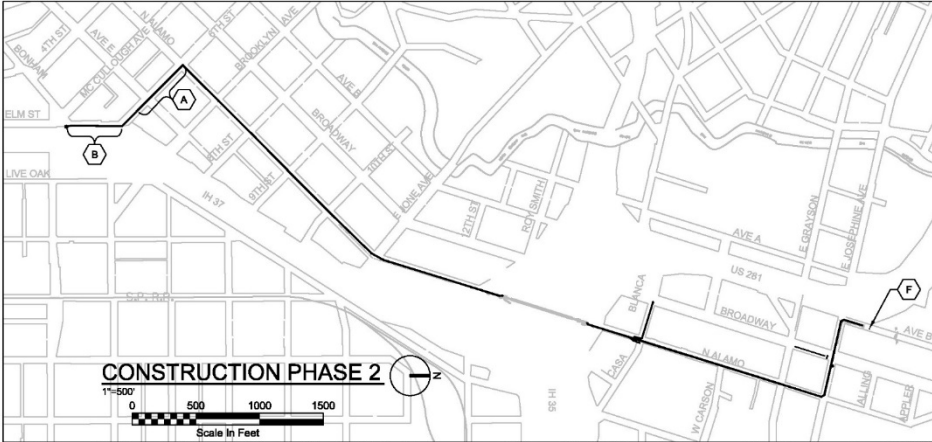
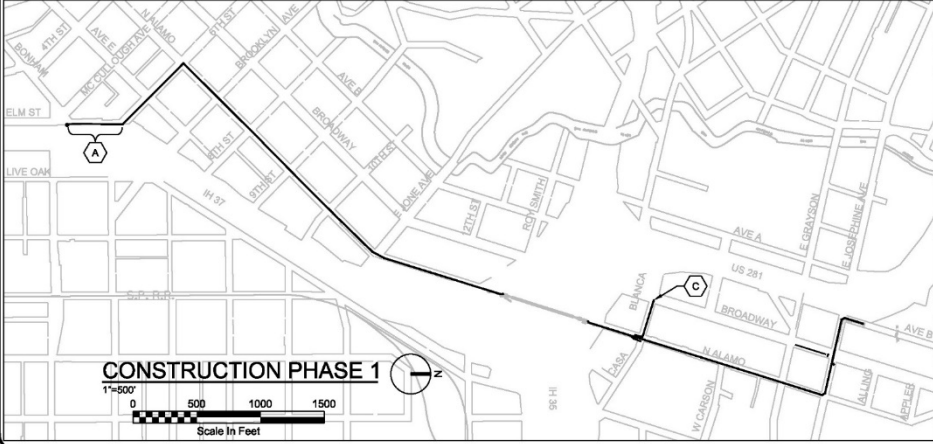
Project Description: Construction Phasing

GENERAL NOTES

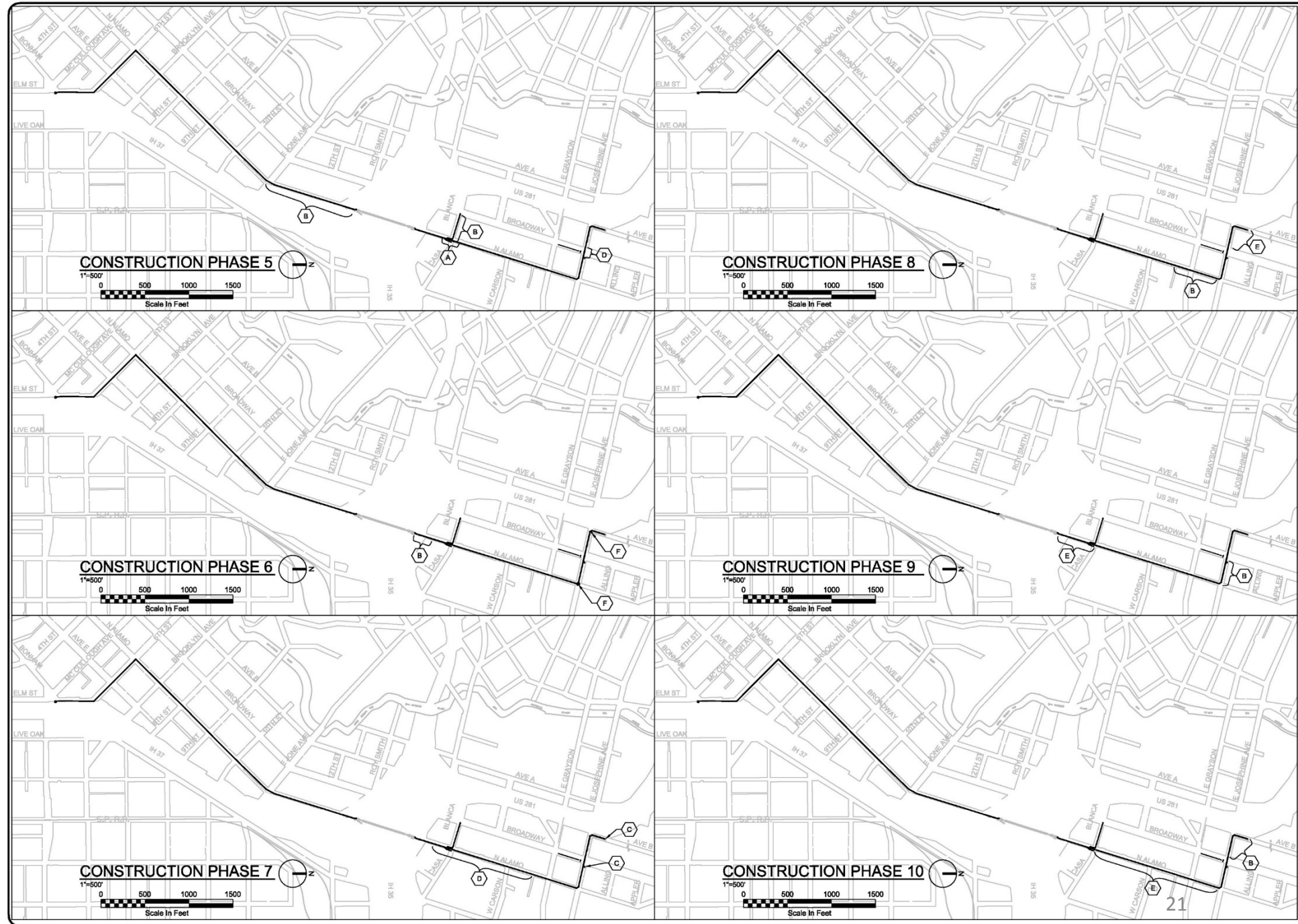
- 1. THE SAMPLE PROJECT CONSTRUCTION PHASING PLAN PRESENTED HEREIN IS PROVIDED AS AN EXAMPLE ONLY. CONTRACTOR IS REQUIRED TO SCHEDULE WORK ACTIVITIES AND PROVIDE A BASELINE SCHEDULE TO OWNER FOR APPROVAL.
- 2. CONTRACTOR IS BE ALLOWED TO WORK IN MULTIPLE LOCATIONS AS ALLOWED BY COSA AND TXDOT PERMITS AND AS APPROVED BY OWNER.

LEGEND

- RELOCATION WORK (A)
- PROPOSED INTERCEPTOR (B)
- STRUCTURE (C)
- TUNNEL WORK (D)
- REHAB WORK (E)
- 60-INCH MANHOLES (F)



Project Description: Construction Phasing



Questions

SAWS reserves right to ask bidders to submit their questions in writing.