

# 2022 OVERLAY UTILITIES

**LACEY CONTRACT # PW 2022-38**  
**SECTION 17, T18N, R1W, W.M.**  
**SECTION 20, T18N, R1W, W.M.**  
**SECTION 21, T18N, R1W, W.M.**

## LACEY CITY OFFICIALS

<b>MAYOR:</b>	Andy Ryder
<b>DEPUTY MAYOR:</b>	Malcolm Miller
<b>CITY COUNCIL:</b>	Lenny Greenstein Michael Steadman Carolyn Cox Ed Kunkel Robin Vazquez
<b>CITY MANAGER:</b>	Scott H. Spence
<b>CITY ATTORNEY:</b>	David S. Schneider
<b>CITY ENGINEER:</b>	Aubrey Collier, P.E., S.E.
<b>DIRECTOR OF PUBLIC WORKS:</b>	Scott Egger, P.E.

## SHEET INDEX

SHEET NO.	PAGE NO.	DESCRIPTION
1	CS	COVER SHEET
2	GN	GENERAL NOTES, LEGENDS & ABBREVIATIONS
3	KP	KEY PLAN
4-5	XS1-XS2	TYPICAL CROSS SECTIONS
6-7	W1-W2	7TH AVE WATER PLANS
8-11	W3-W6	14TH AVE WATER PLANS
12	W7	FRANZ ST WATER PLANS
13-16	C1-C4	7TH AVE OVERLAY PLANS
17-20	C5-C8	14TH AVE OVERLAY PLANS
21	C9	FRANZ ST OVERLAY PLANS
22-24	DT1-DT3	CONSTRUCTION DETAILS
25	DT4	CHANNELIZATION DETAILS

*Aubrey Collier*  
City Engineer

11/8/2022  
DATE



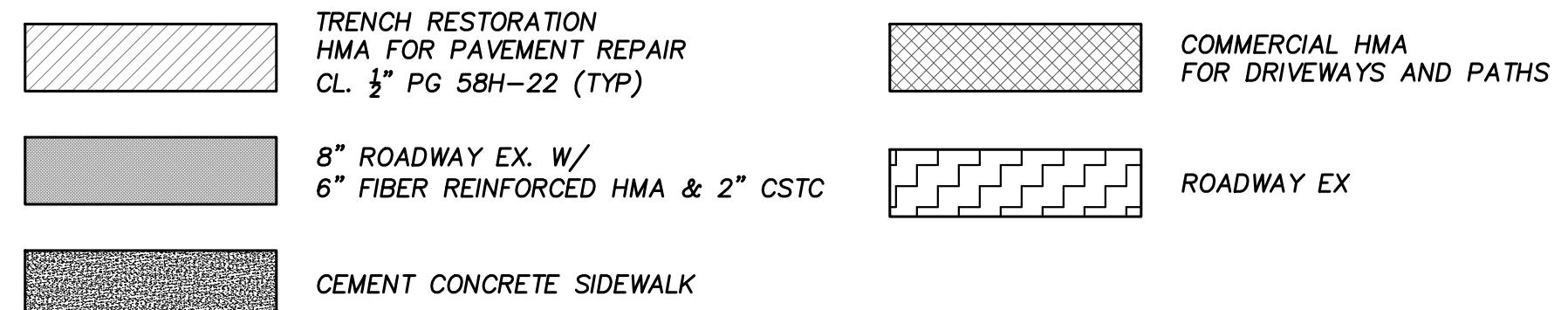
Lacey Dwg. Number :  
D-22-21

BLOCK LEGEND:

SURVEY MONUMENT	◎
CATCH BASIN TYPE 1	■
STORM MANHOLE & CB TYPE 2	◎
FIRE HYDRANT	◎
AIR & VACUUM RELEASE VALVE	●
WATER METER	□W
WATER VALVE	■W
REDUCER	□
SPRINKLER HEAD	●SP
SEWER MANHOLE	○S
SANITARY SEWER CLEAN OUT	○CO
GAS VALVE	●G
SIGN	■
POLE ANCHOR	→
POWER TRANSFORMER	■
POWER POLE	○P
POWER VAULT	□P □
TRAFFIC LOOP	[ ]
TRAFFIC SIGNAL	↓ ↓ ↓ □
STANDARD TRAFFIC SIGNAL CONTROLLER	□SIG
STREET LIGHT	●○
JUNCTION BOX	□J
ELECTRICAL SERVICE	⊕
CABLE TV PEDESTAL	□TV
TELEPHONE MANHOLE	○T
TELEPHONE PEDESTAL	□T
TREE GRATE	■■■
CONIFER TREE	★
DECIDUOUS TREE	cloud 4" DEC
COMMERCIAL SIGN	—

LINETYPE LEGEND:

8+00	CONSTRUCTION BASELINE
—ss—ss—ss—	EASEMENT
— — — — —	ROAD CENTERLINE
—x—x—x—	BARB WIRE FENCE
—o—o—o—o—o—	CHAIN LINK FENCE
—□—□—□—□—□—	CONCRETE FENCE
.....	ROCK FENCE
—xxx—xxx—xxx—xxx—xxx—	WIRE FENCE
—□—□—	WOOD FENCE
—·—·—·—·—	GRAVEL
—·—·—	TOE OF SLOPE
—·—·—	TOP OF SLOPE
—·—·—·—·—	DITCH
—sd—sd—	STORM (PAINTED)
—ss—ss—	SEWER (PAINTED)
—ss—ss—	NEW SEWER
— — — — —	RIGHT OF WAY
—otv—otv—	OVERHEAD CABLE
—utv—utv—	UNDERGROUND CABLE (PAINTED)
—g—g—	GAS (PAINTED)
—oph—oph—	OVERHEAD PHONE
—ofo—ofo—	OVERHEAD FIBER OPTIC
—uph—uph—	UNDERGROUND PHONE (PAINTED)
—ufo—ufo—	UNDERGROUND FIBER OPTIC (PAINTED)
—ohe—ohe—	OVERHEAD ELECTRIC
—uge—uge—	UNDERGROUND ELECTRIC (PAINTED)
—w—w—	WATER (PAINTED)
—rw—rw—	RECLAIMED WATER (PAINTED)
△△△△	ABANDON EXISTING UTILITY (SEE PLAN)

CONSTRUCTION HATCH TYPES:ABBREVIATIONS:

△	DEFLECTION ANGLE	S/W	SIDEWALK	V.P.C.	VERTICAL POINT OF CURVATURE
EP	EDGE OF PAVEMENT	C.S.B.C.	CRUSHED SURFACING BASE COURSE	V.P.T.	VERTICAL POINT OF TANGENCY
RT	RIGHT	C.S.T.C.	CRUSHED SURFACING TOP COURSE	EL.	ELEVATION
LT	LEFT	CL, ♀	CENTERLINE	S.Y.	SQUARE YARD
I.E.	INVERT ELEVATION	P.C.	POINT OF CURVATURE	C.Y.	CUBIC YARD
P.I.	POINT OF INTERSECTION	P.T.	POINT OF TANGENCY	TYP.	TYPICAL
R.	RADIUS	A/C	ASPHALT CONCRETE	LUM.	LUMINAIRE
R.P.	RADIUS POINT	ACP	ASPHALT CONCRETE PAVEMENT	L.F.	LINEAR FEET
R/W	RIGHT-OF-WAY	D.I.	DUCTILE IRON	RD.	ROAD
ROW	RIGHT-OF-WAY	SD	STORM DRAIN	DR.	DRIVE
EX.	EXISTING	SS	SANITARY SEWER	PKWY.	PARKWAY
EXIST.	EXISTING	RPBA	REDUCED PRESSURE BACKFLOW ASSEMBLY	CONST.	CONSTRUCTION
DIA, Ø	DIAMETER	A.P.	ANGLE POINT	FT.	FOOT
V.P.I.	VERTICAL POINT OF INTERSECTION	STA	STATION	D/W	DRIVEWAY
				APPROX.	APPROXIMATELY
				U.O.N.	UNLESS OTHERWISE NOTED

CONSTRUCTION NOTES:

1. CALL 48 HOURS BEFORE YOU DIG 1-800-424-5555 OR 811.
2. THE CONTRACTOR SHALL FIELD VERIFY UTILITY LOCATIONS PRIOR TO CONSTRUCTION.
3. THE CONTRACTOR SHALL NOT REMOVE ANY TREES UNLESS INDICATED ON PLANS OR DIRECTED BY ENGINEER.
4. THE CONTRACTOR SHALL MATCH OVERLAY TO EXISTING PAVEMENT AND DRIVEWAYS AS DIRECTED BY THE ENGINEER.
5. GRINDING LIMITS AND PAVEMENT REPAIR LIMITS SHALL BE IDENTIFIED BY THE ENGINEER IN THE FIELD AND MAY VARY FROM THOSE SHOWN ON THE PLANS.
6. THE CONTRACTOR SHALL RESTORE ALL LANDSCAPING TO EQUAL OR BETTER THAN ORIGINAL CONDITIONS AS DIRECTED BY THE ENGINEER.
7. THE CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTS AND PROPERTY CORNERS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH RESTORING MONUMENTS OR PROPERTY CORNERS OUTSIDE OF THE CONSTRUCTION LIMITS.

BASIS OF BEARING

MERIDIAN IS WASHINGTON COORDINATE SYSTEM OF 1983/91 – SOUTH ZONE DERIVED FROM TIES TO HPGN STATIONS SANDERSON, MCKENNA AND CBL1110 AND TO WSDOT GPS STATIONS G259R, GP34005–2, GP34005–4, GP34101–32, GP34101–39, HC34–2, LUHR RM2, TS34–33, TS34–59 AND TO THURSTON COUNTY GPS STATIONS U-531, AT-194, AT-352, AT-355, AT-447, AT449 AND AT-478. DISTANCES SHOWN ARE GROUND SCALE U.S. SURVEY FEET. COMBINED SCALE FACTOR (GROUND TO GRID) IS 0.999935701. SURVEY AF# 3111152 DATED 09-24-1997.

SOURCE OF UTILITY MARKINGS

SURFACE MARKINGS PROVIDED BY UTILITY NOTIFICATION CENTER (callbeforeyoudig.org) TICKET #21344239, 21344366, 21348451, 21348464, 21393571, 21393600 NOTE: "COMMUNICATION UTILITIES WERE NOT MARKED IN FIELD"

VERTICAL

THE CITY OF LACEY BENCHMARKS ARE BASED ON NGVD 29 DATUM FROM PRIMARY CONTROL ESTABLISHED BY FEDERAL AND STATE AGENCIES TO FIRST OR SECOND ORDER ACCURACY. THE CITY OF LACEY'S BENCHMARKS ARE GENERALLY TO THIRD ORDER ACCURACY.

METHOD OF SURVEY

SURVEY PERFORMED BY CONVENTIONAL FIELD TRAVERSE USING A LEICA TS-16 (THREE SECOND TOTAL STATION), LINEAR AND ANGULAR CLOSURE OF THE TRAVERSE MEET THE STANDARDS OF WAC 332-130-090.

BENCHMARK

CITY OF LACEY BM#645 CITY OF LACEY 2" SURFACE MONUMENT AT THE INTERSECTION OF SLEATER-KINNEY & 12TH AVE SE ELEV.=202.68

BOUNDARY

THE BOUNDARY WAS COMPILED USING PHYSICAL FEATURES TIED IN THE FIELD AND DOCUMENTS OF RECORD AS SHOWN BELOW.

**SURVEYS REFERENCED**  
AF# 918335, 1069518, 1070996, 3058586, 3923142, 4091550

**SHORT SUB REFERENCED**  
AF#3450936, 3855862, 4644067, 8408290024

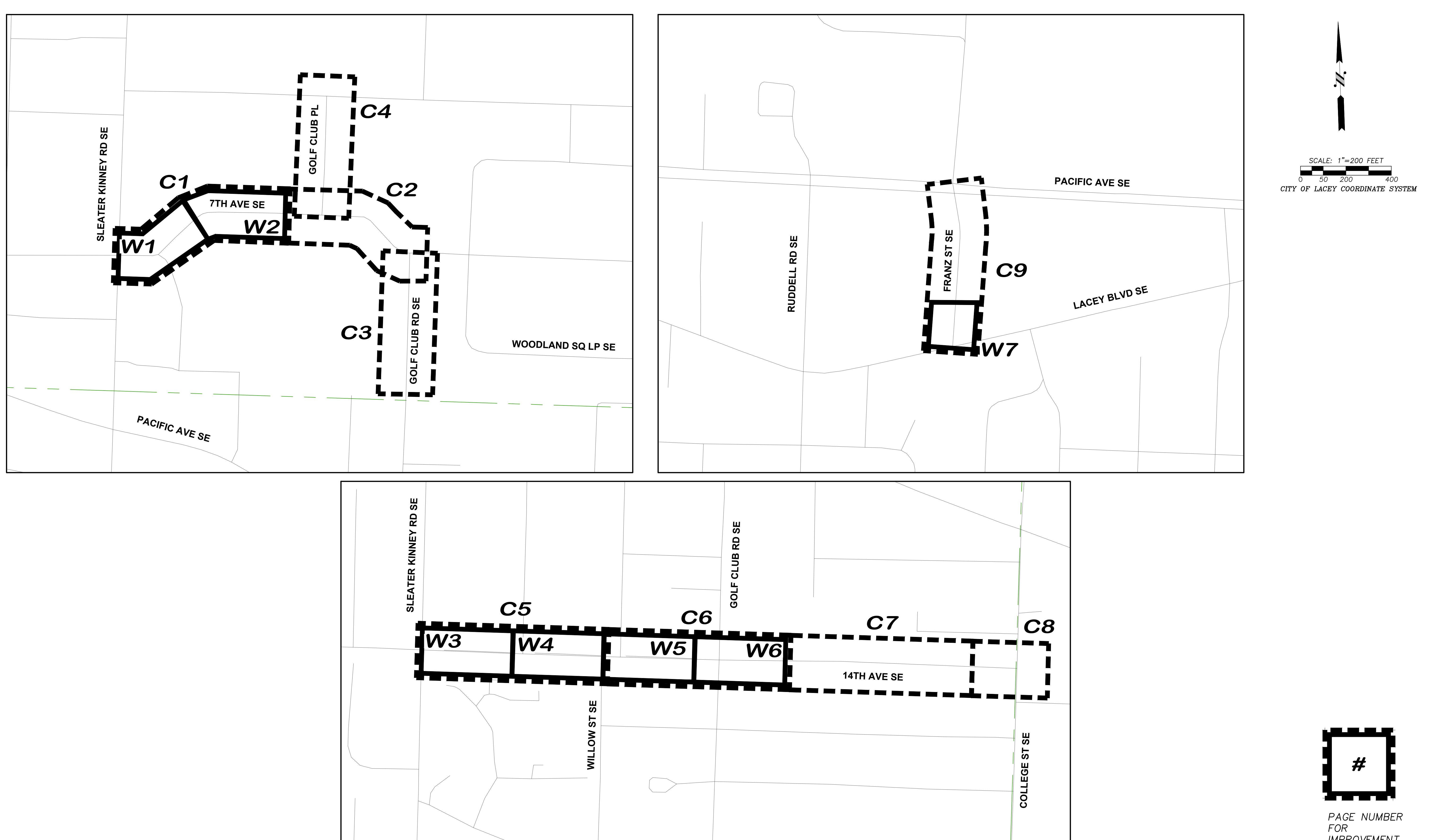
**BLA REFERENCED**  
AF#3041067, 3388527

**PLATS REFERENCED**  
AF#773765, 780166, 8606130004, 9504060050



DESIGNED: BP/JK  
DRAFTED: BP/JK  
CHECKED: JK  
HORZ. SCALE: N/A  
VERT. SCALE: N/A  
FILE: CSHDWG

NO.	DATE	DESCRIPTION	REVISION BLOCK	PAGE NO.	SHEET NO.
			GN		
				DWG NO.	2 OF 25
				D-22-21	25



CITY OF LACEY, WASHINGTON  
DEPARTMENT OF PUBLIC WORKS  
420 COLLEGE STREET SE  
LACEY, WA 98503-1238 (360) 491-5600

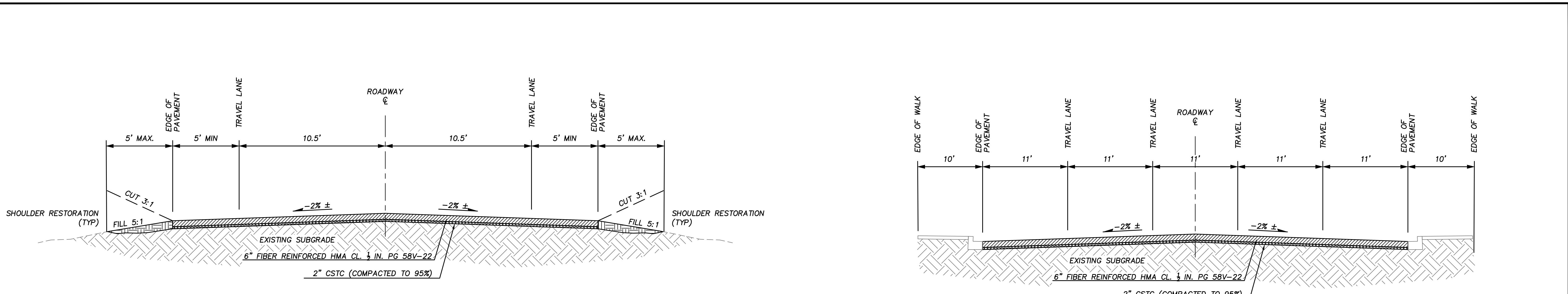


DESIGNED: BP/JK  
DRAFTED: BP/JK  
CHECKED: JK  
HORZ. SCALE: 1"-200'  
VERT. SCALE: N/A  
FILE: KP.DWG

2022 OVERLAY UTILITIES  
KEY PLAN

REVISION BLOCK		
NO.	DATE	DESCRIPTION
KP		
DWG NO.		
D-22-21		

PAGE NO.  
KP  
DWG NO.  
D-22-21  
SHEET NO.  
3  
OF  
25



ROADWAY SECTION A (14TH AVE SE)

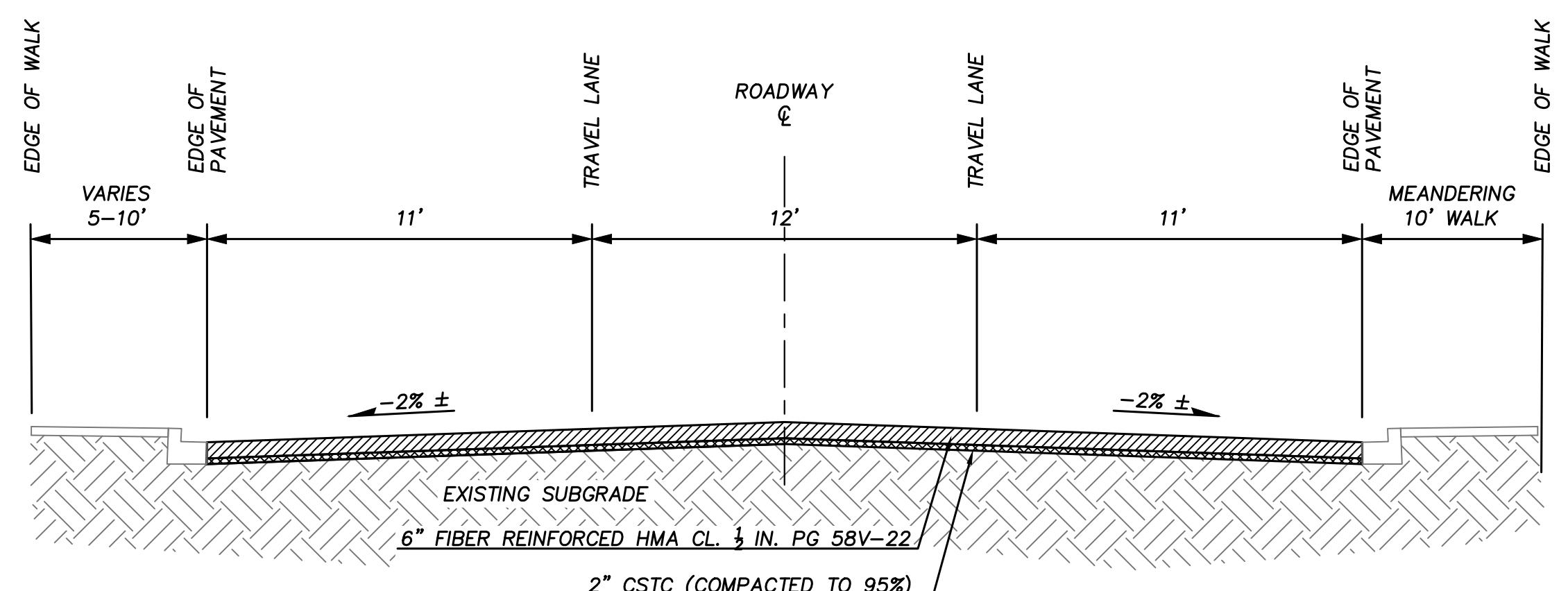
STA 1+36.8 TO STA 13+81.4  
STA 14+36.0 TO STA 26+97.4

ROADWAY SECTION B (7TH AVE)

STA 1+27.7 TO STA 2+40.8

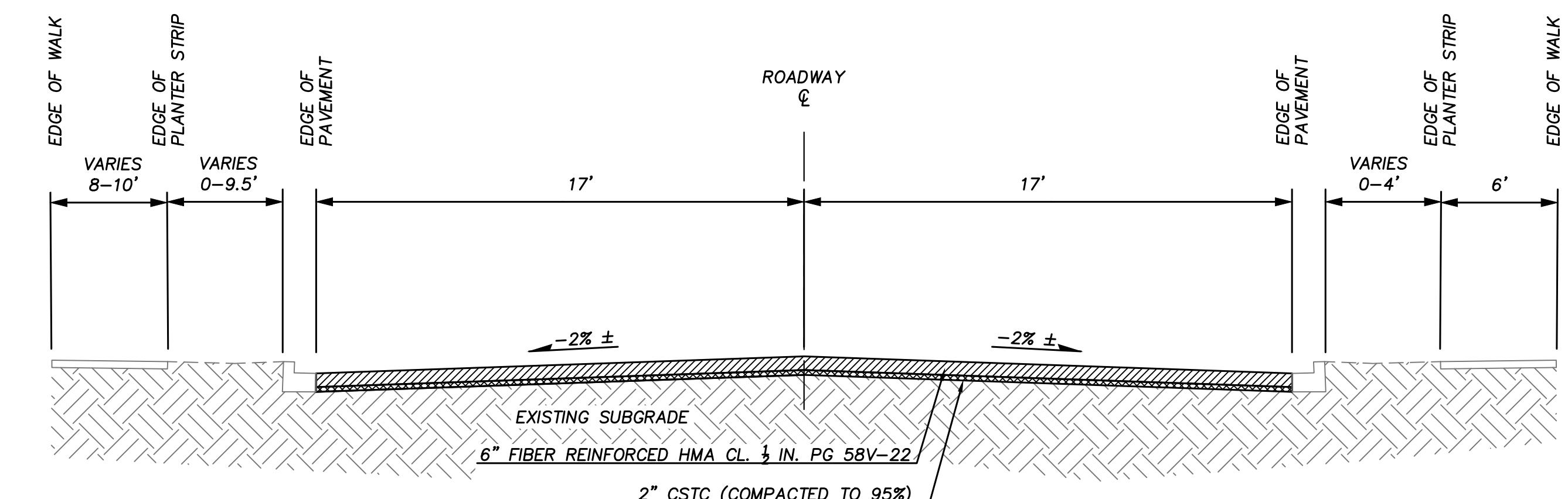
TYPICAL CROSS-SECTION NOTES:

1. EXISTING PAVEMENT THICKNESS IS EXPECTED TO BE 3"-6" ON ALL STREETS.
2. EDGE CONDITIONS WILL VARY.  
CONDITION SHOWN IS TYPICAL FOR EACH SECTION.



ROADWAY SECTION C (7TH AVE)

STA 2+40.8 TO STA 15+93.1



ROADWAY SECTION D (GOLF CLUB RD SE)

STA 200+45.7 TO STA 206+12.7

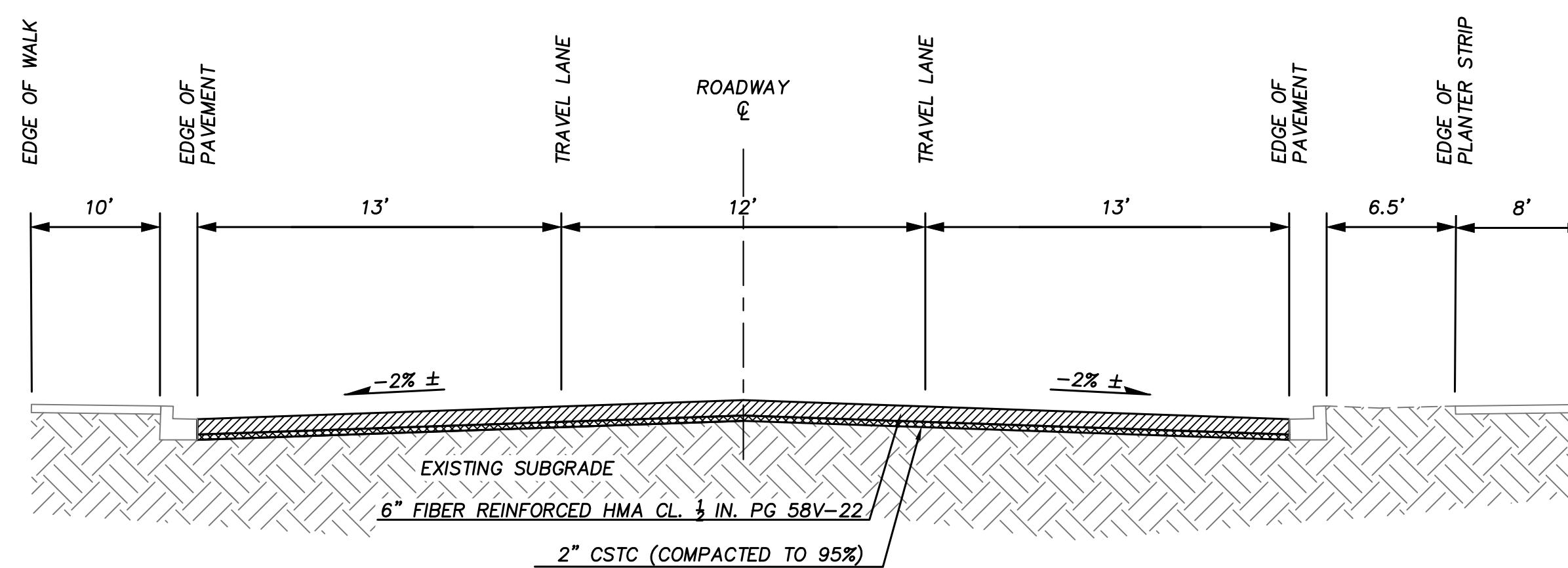


LACEY

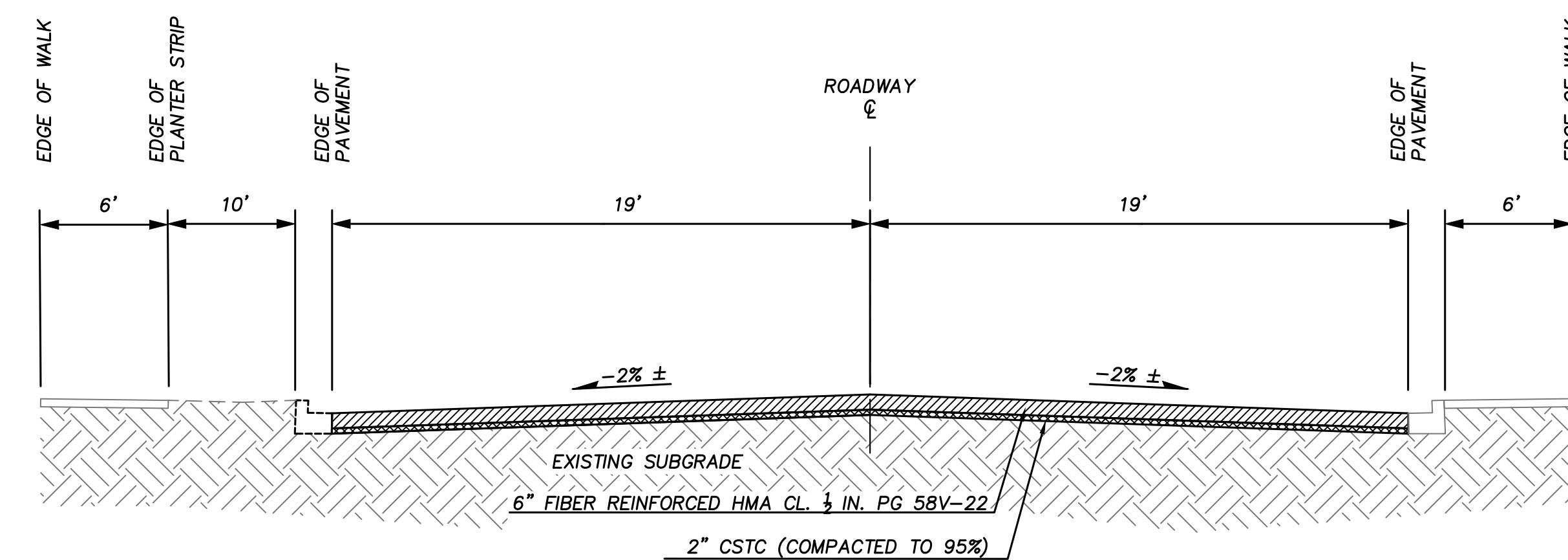


DESIGNED: BP/JK  
DRAFTED: BP/JK  
CHECKED: JK  
HORZ. SCALE: NTS  
VERT. SCALE: N/A  
FILE: ES

REVISION BLOCK			PAGE NO.	SHEET NO.
NO.	DATE	DESCRIPTION	XS1	4
DWG NO.			D-22-21	OF 25



ROADWAY SECTION D (GOLF CLUB PL SE)  
STA 100+46.1 TO STA 104+60.4

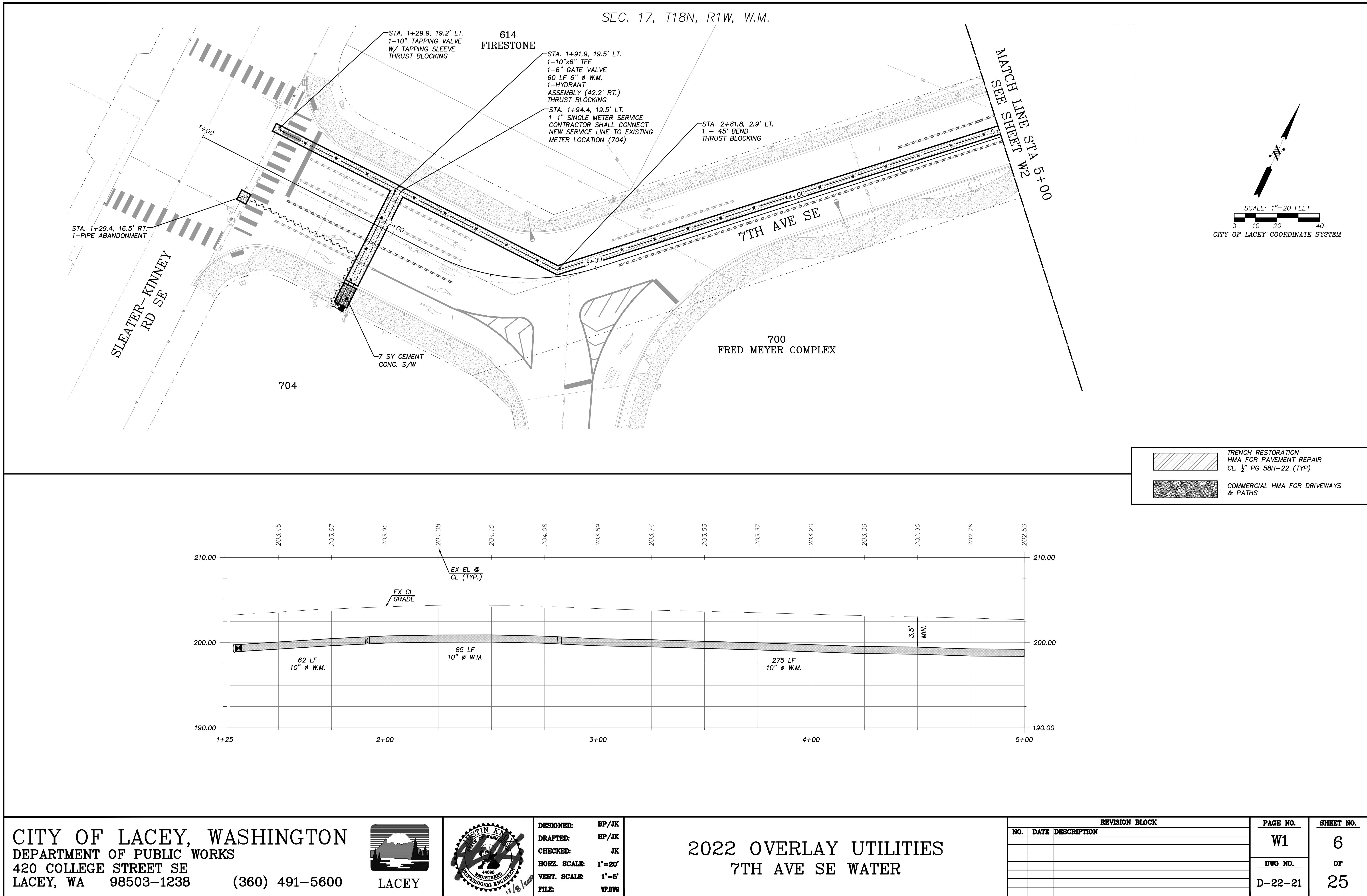


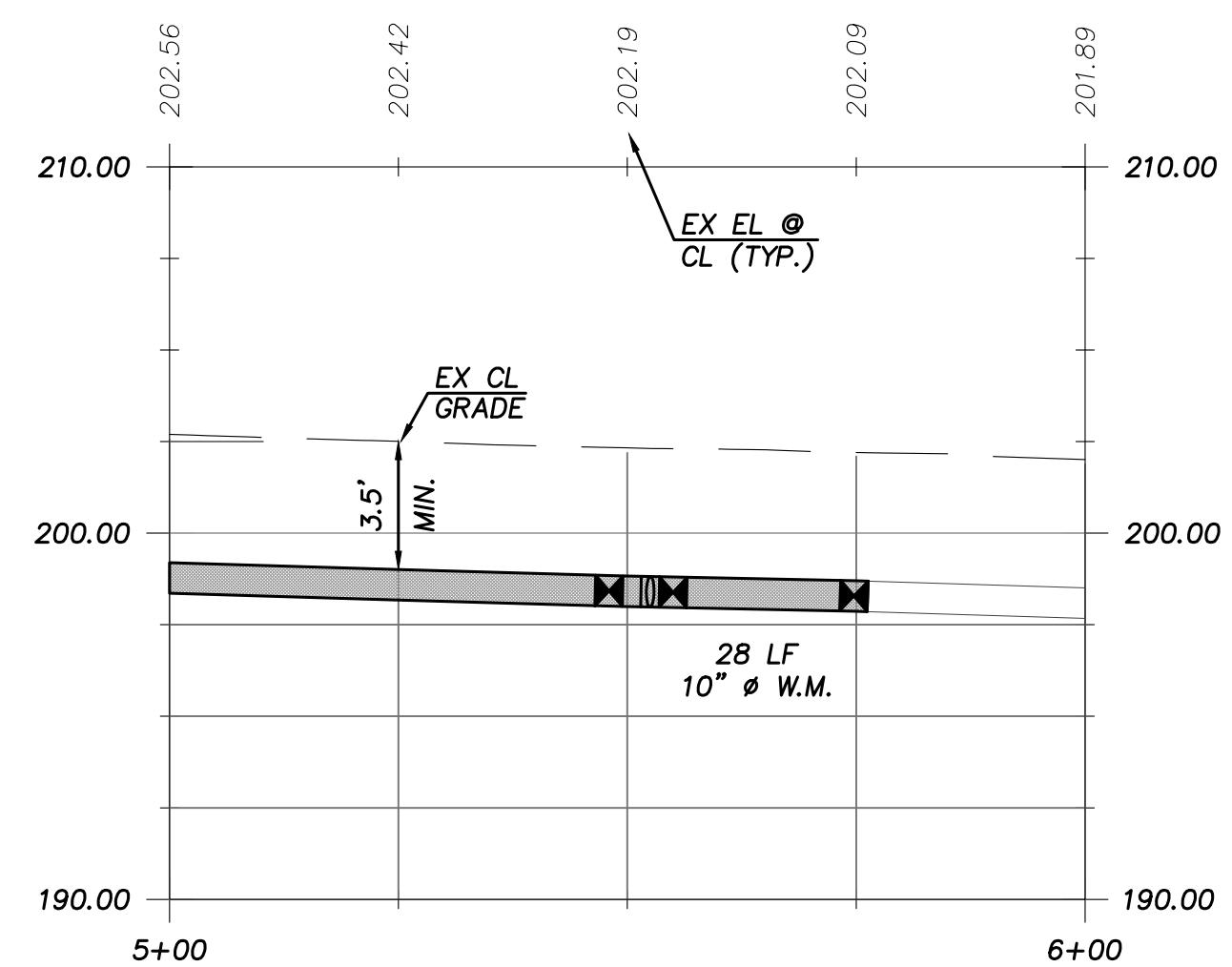
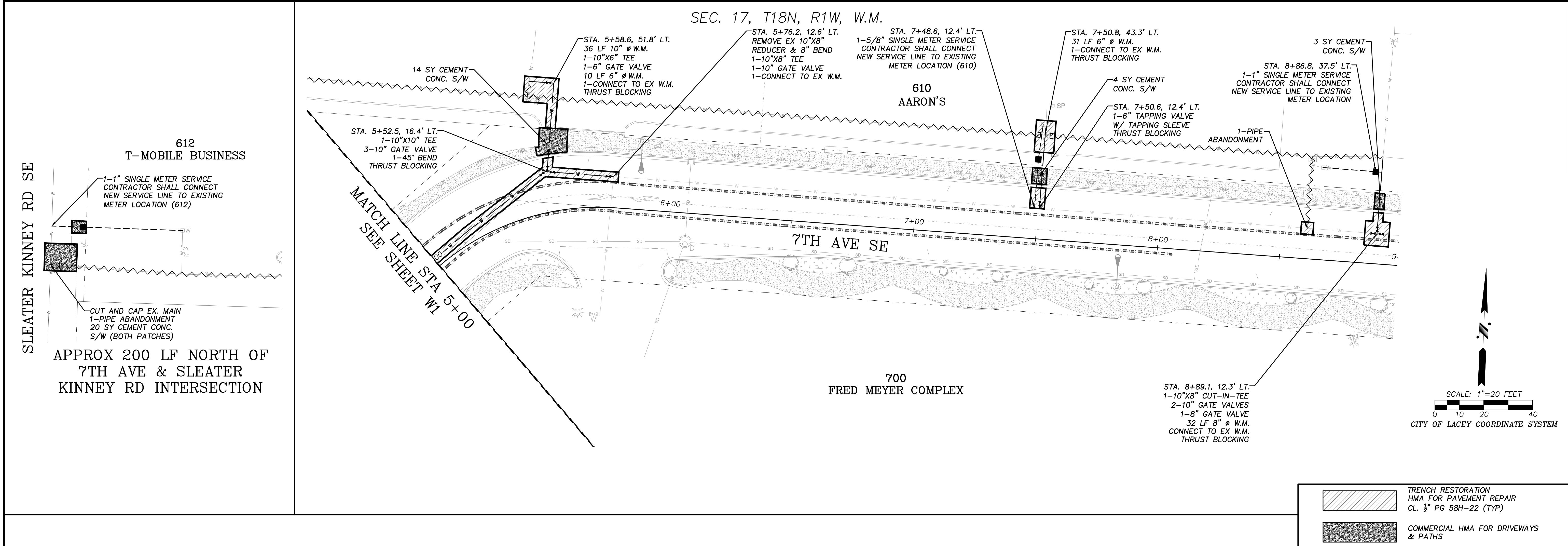
ROADWAY SECTION F (FRANZ ST SE)  
STA 400+18.3 TO STA 407+08.5



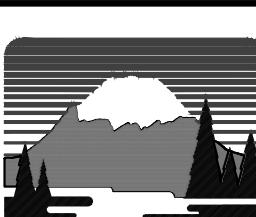
DESIGNED: BP/JK  
DRAFTED: BP/JK  
CHECKED: JK  
HORZ. SCALE: NTS  
VERT. SCALE: N/A  
FILE: IS

REVISION BLOCK		
NO.	DATE	DESCRIPTION
		XS2
		DWG NO.
		D-22-21





**CITY OF LACEY, WASHINGTON  
DEPARTMENT OF PUBLIC WORKS  
420 COLLEGE STREET SE  
LACEY, WA 98503-1238 (360) 491-5600**

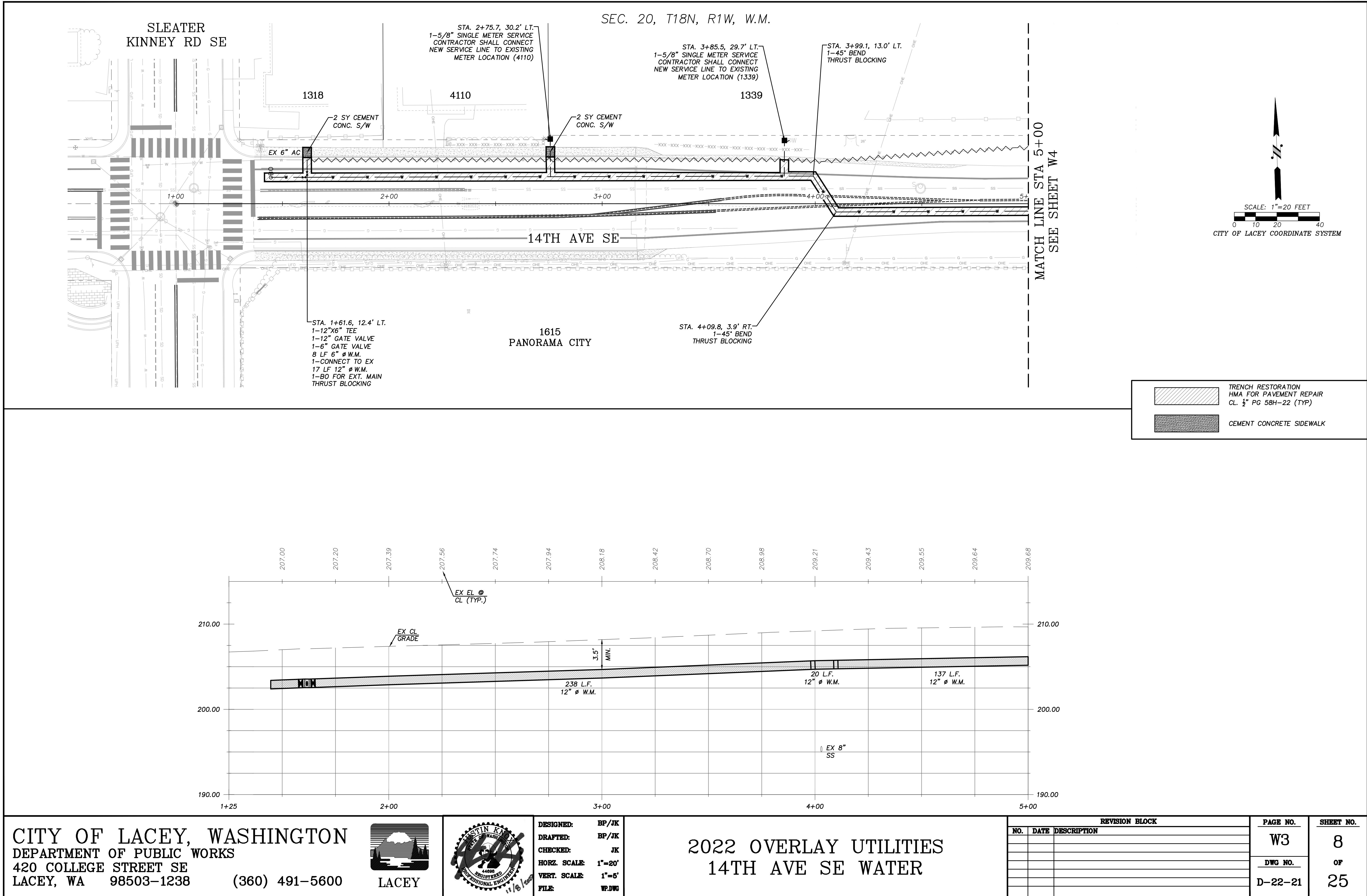


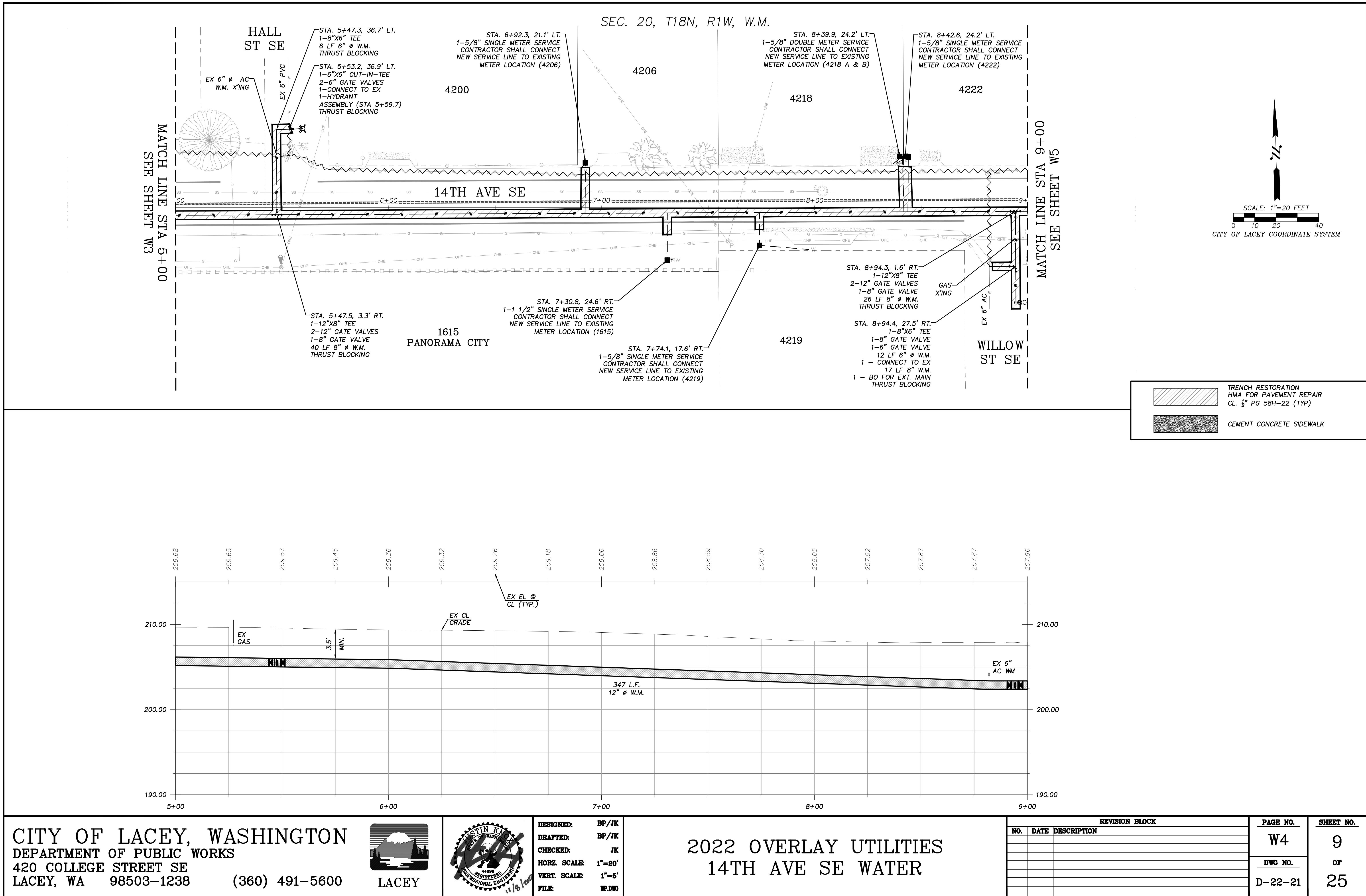
LACEY

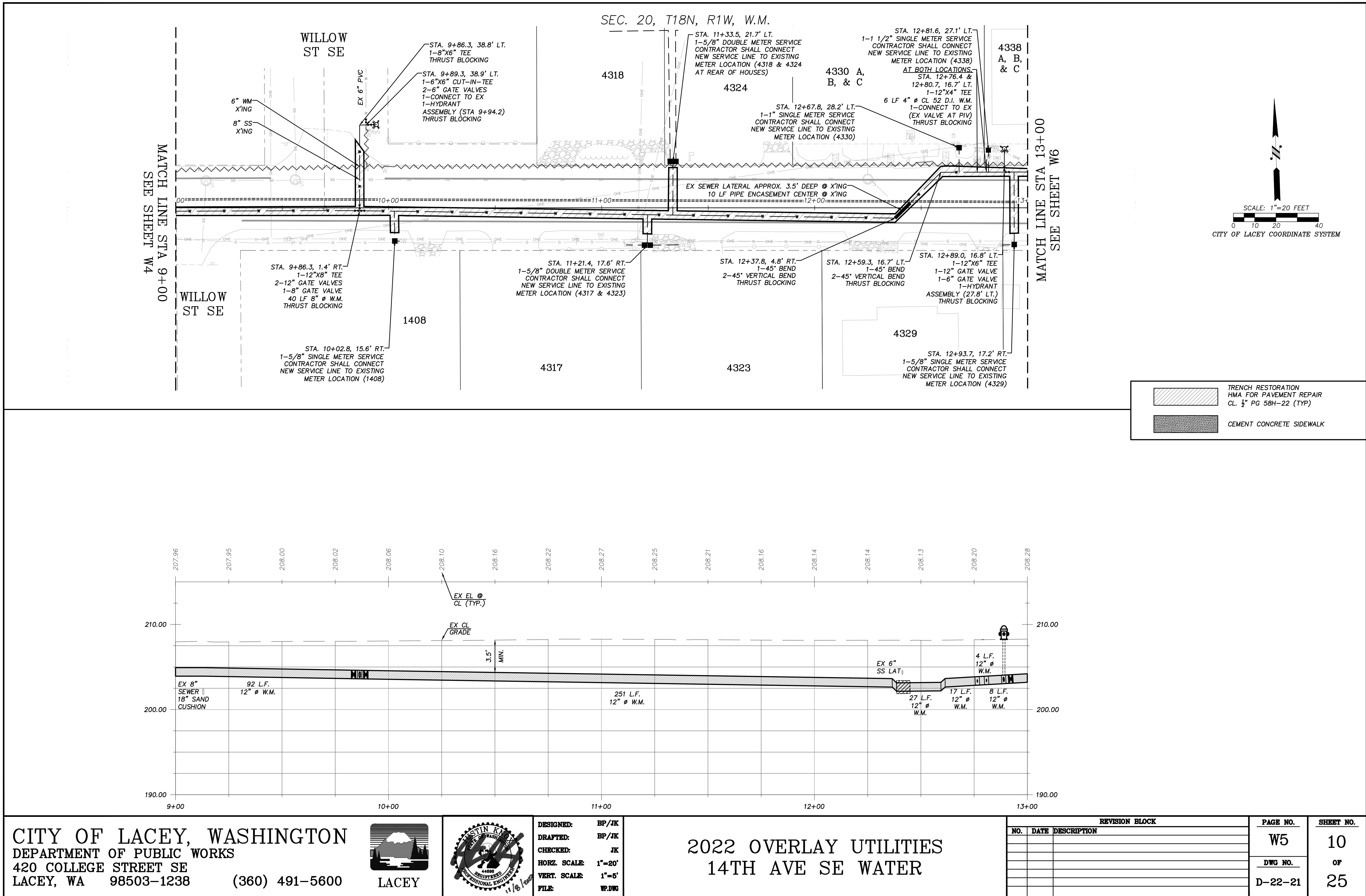


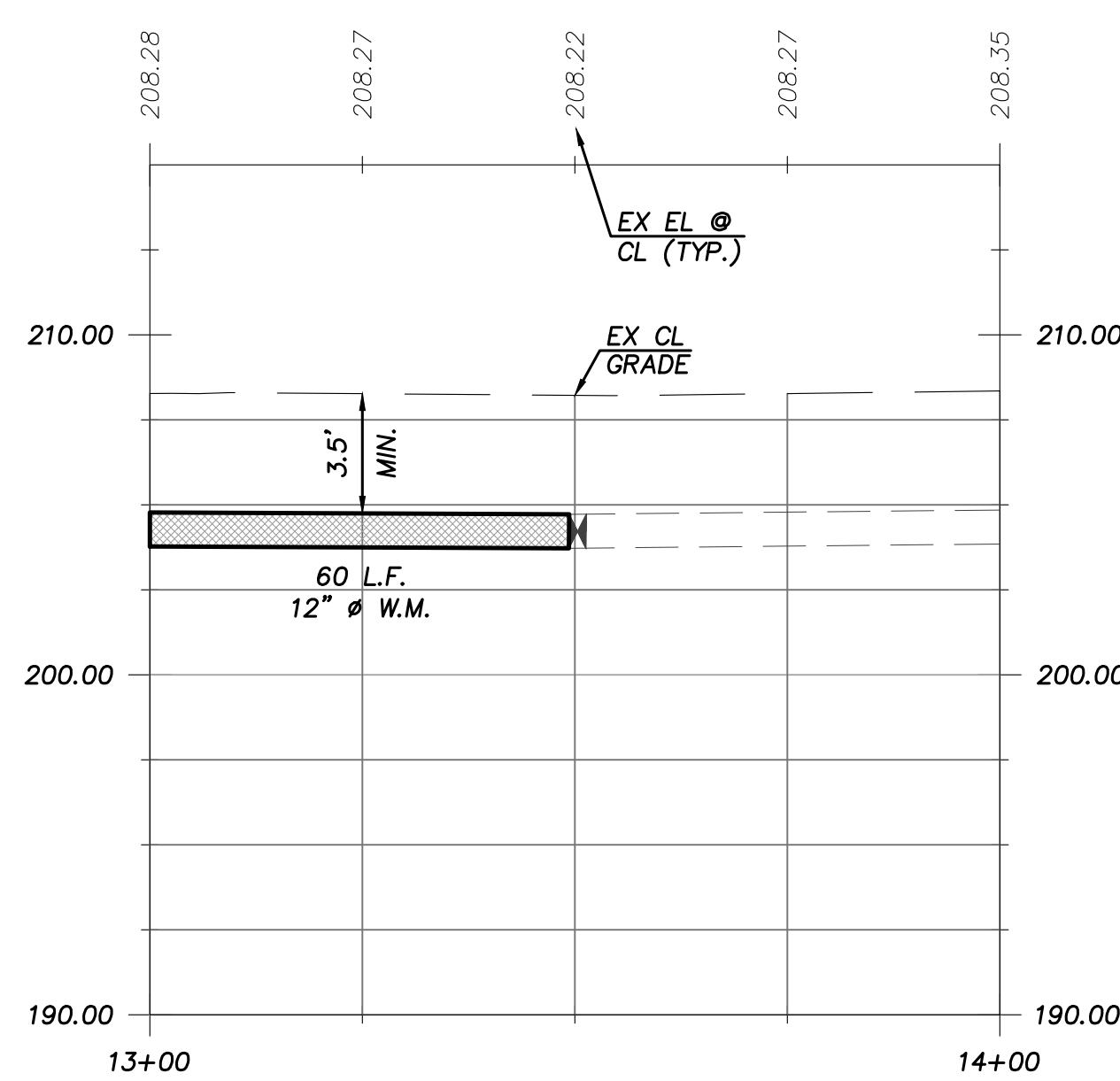
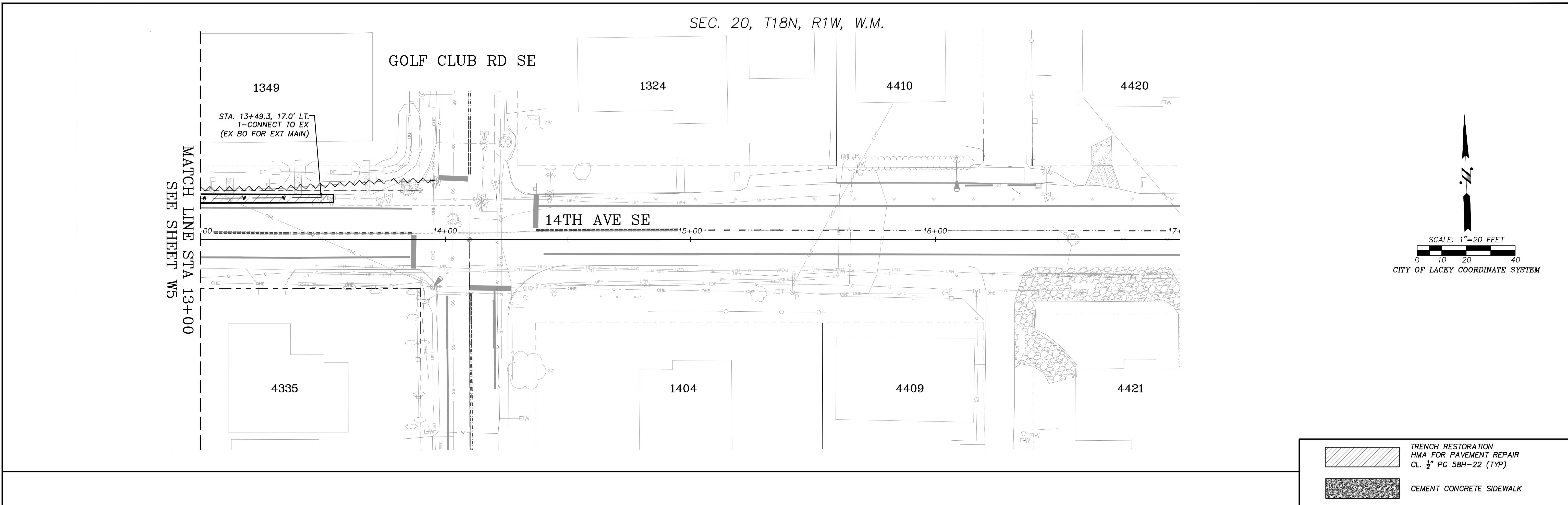
DESIGNED:	BP/JK
DRAFTED:	BP/JK
CHECKED:	JK
HORZ. SCALE:	1"=20'
VERT. SCALE:	1"=5'
FILE:	WP.DWG

# 2022 OVERLAY UTILITIES 7TH AVE SE WATER

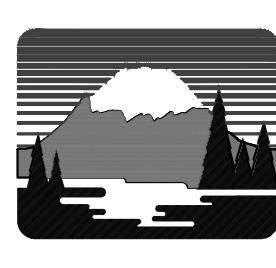








CITY OF LACEY, WASHINGTON  
DEPARTMENT OF PUBLIC WORKS  
420 COLLEGE STREET SE  
LACEY, WA 98503-1238      (360) 491-5600



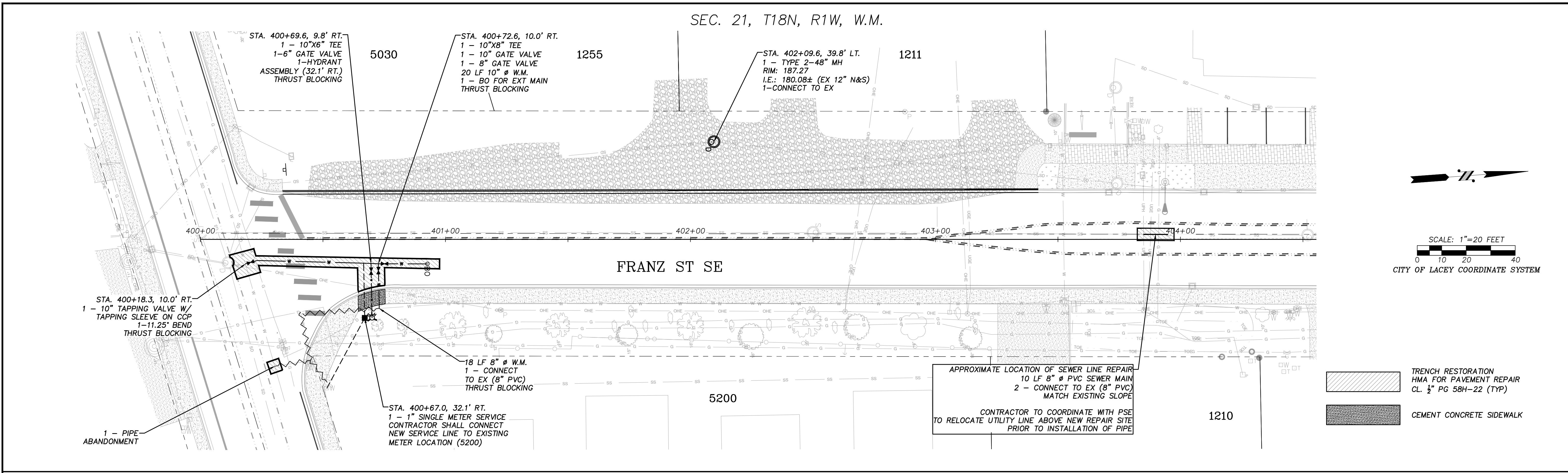
LACEY



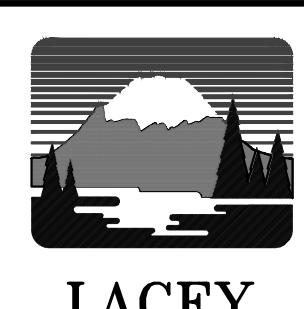
DESIGNED: BP/JK  
DRAFTED: BP/JK  
CHECKED: JK  
HORZ. SCALE: 1"-20'  
VERT. SCALE: 1"-5'  
FILE: WP.DWG  
1/8/2022

2022 OVERLAY UTILITIES  
14TH AVE SE WATER

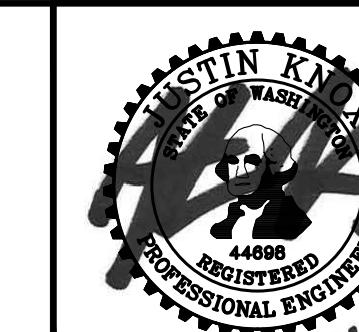
REVISION BLOCK			PAGE NO.	SHEET NO.
NO.	DATE	DESCRIPTION	W6	11
			DWG NO.	OF
			D-22-21	25



CITY OF LACEY, WASHINGTON  
DEPARTMENT OF PUBLIC WORKS  
420 COLLEGE STREET SE  
LACEY, WA 98503-1238 (360) 491-5600



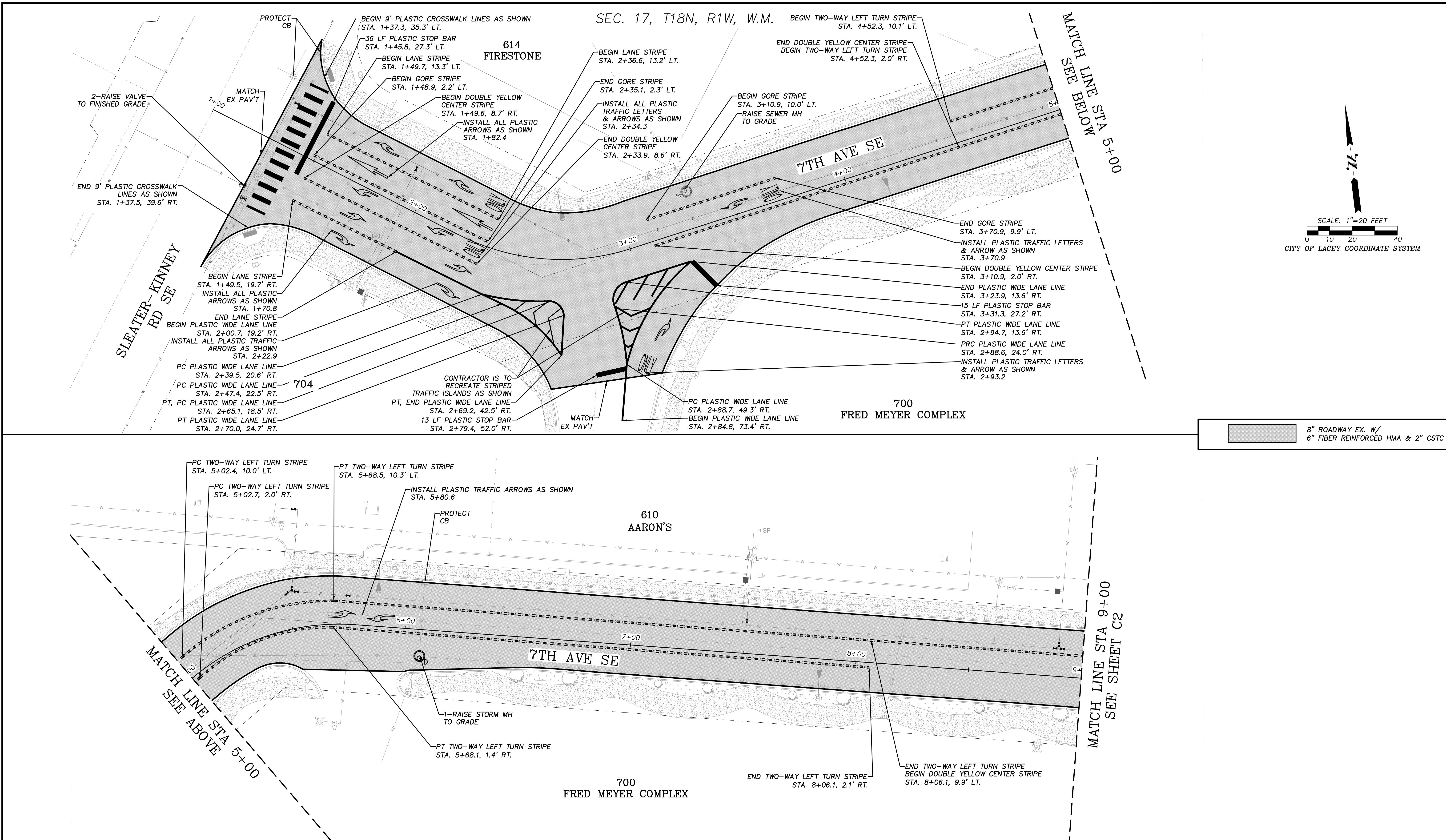
LACEY



DESIGNED: BP/JK  
DRAFTED: BP/JK  
CHECKED: JK  
HORZ. SCALE: 1"-20'  
VERT. SCALE: 1"-5'  
FILE: WP.DWG

2022 OVERLAY UTILITIES  
FRANZ ST SE WATER & STORM

REVISION BLOCK			PAGE NO.	SHEET NO.
NO.	DATE	DESCRIPTION	W7	12
			DWG NO. D-22-21	OF 25



**CITY OF LACEY, WASHINGTON**  
DEPARTMENT OF PUBLIC WORKS  
420 COLLEGE STREET SE  
LACEY, WA 98503-1238  
(360) 491-5600



LACEY

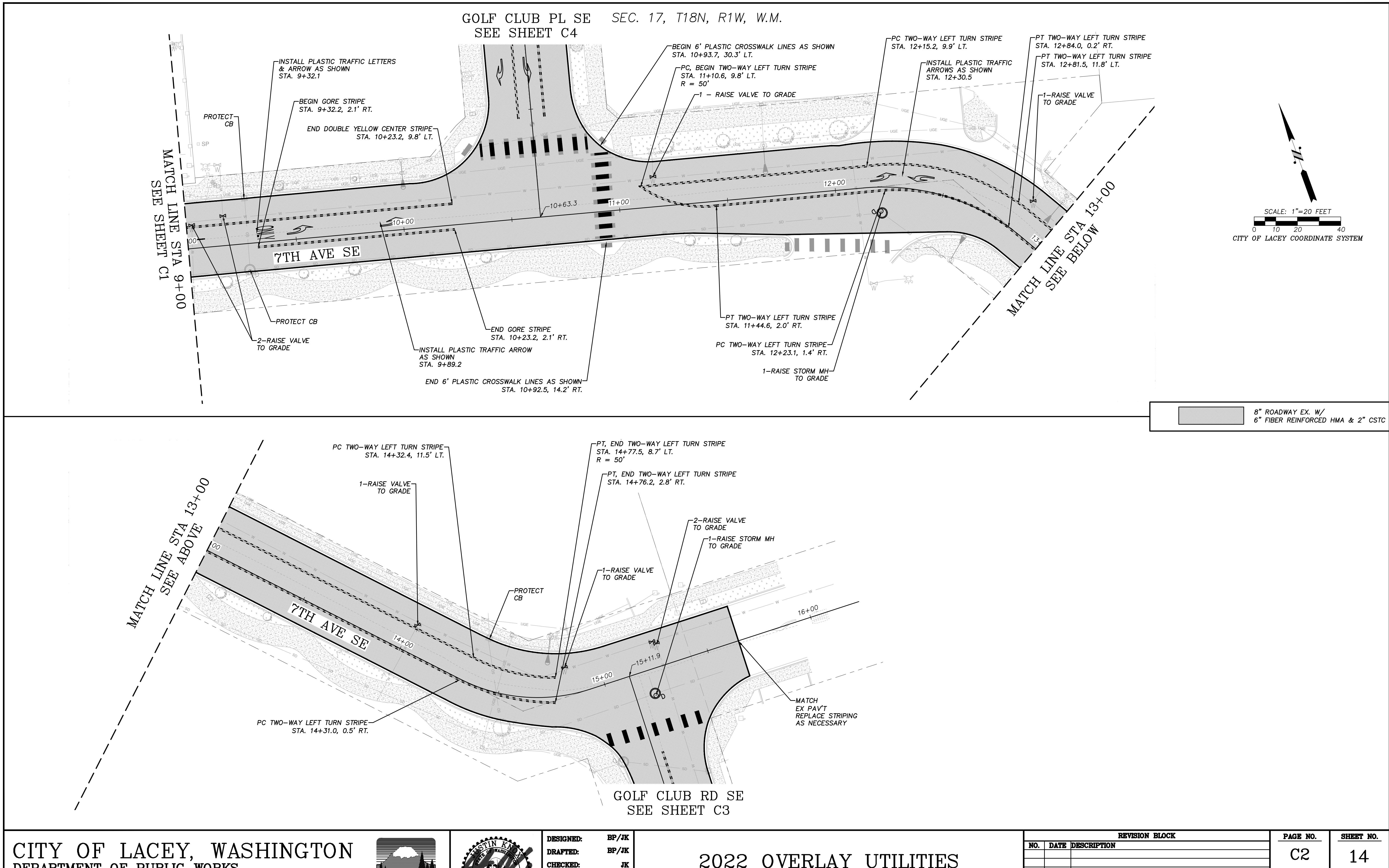


1/8/2021

**2022 OVERLAY UTILITIES**  
**7TH AVE SE OVERLAY**

REVISION BLOCK		
NO.	DATE	DESCRIPTION
C1		
DWG NO.		

PAGE NO. 13 OF 25  
SHEET NO. 13 OF 25  
DWG NO. D-22-21



CITY OF LACEY, WASHINGTON  
DEPARTMENT OF PUBLIC WORKS  
420 COLLEGE STREET SE  
LACEY, WA 98503-1238 (360) 491-5600



LACEY



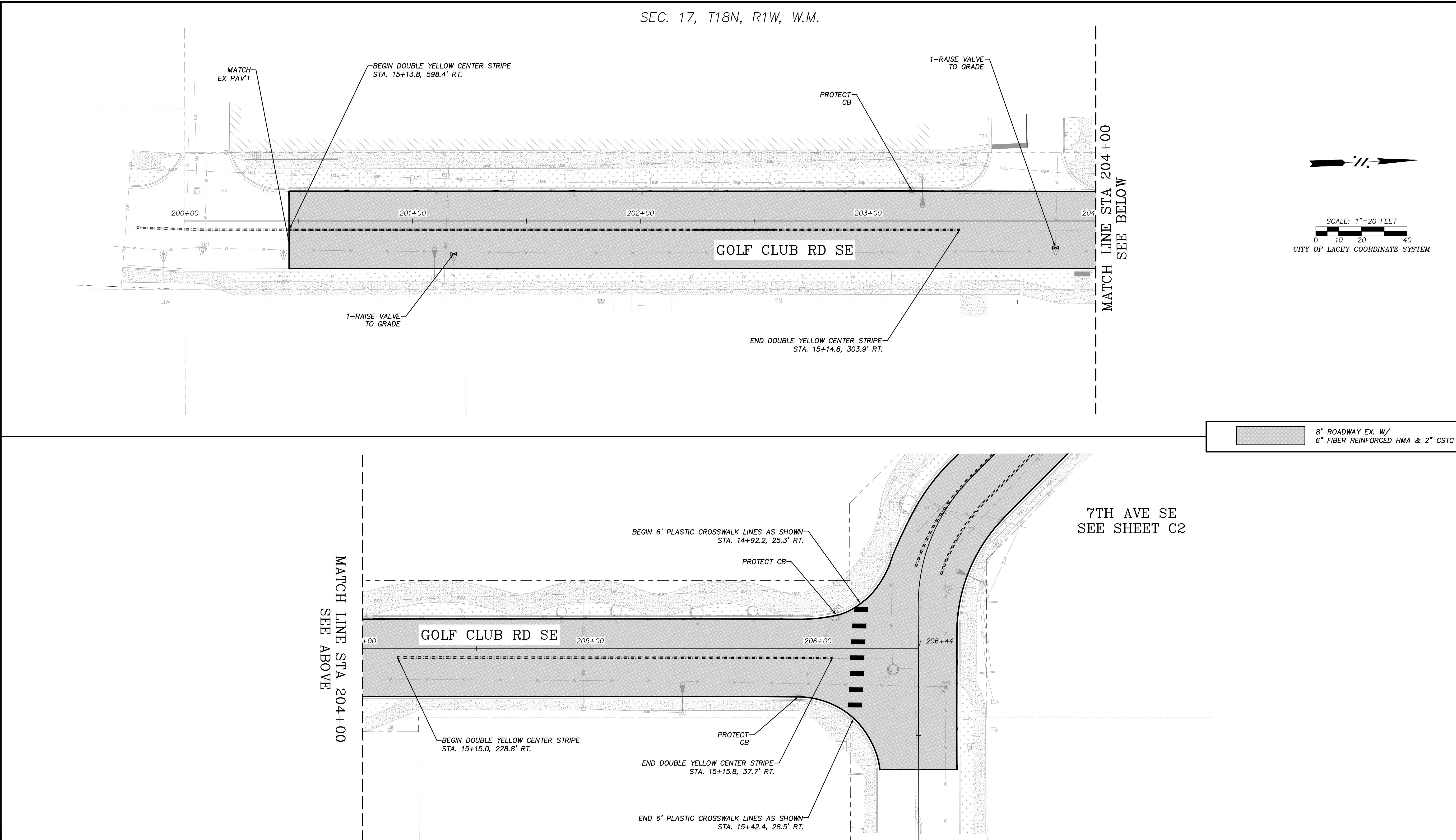
REGISTRATION NO. 118120  
PROFESSIONAL ENGINEER

DESIGNED: BP/JK  
DRAFTED: BP/JK  
CHECKED: JK  
HORZ. SCALE: 1"=20'  
VERT. SCALE: N/A  
FILE: WP.DWG

2022 OVERLAY UTILITIES  
7TH AVE SE OVERLAY

REVISION BLOCK			PAGE NO.	SHEET NO.
NO.	DATE	DESCRIPTION	C2	14 OF 25
1			DWG NO.	D-22-21

SEC. 17, T18N, R1W, W.M.



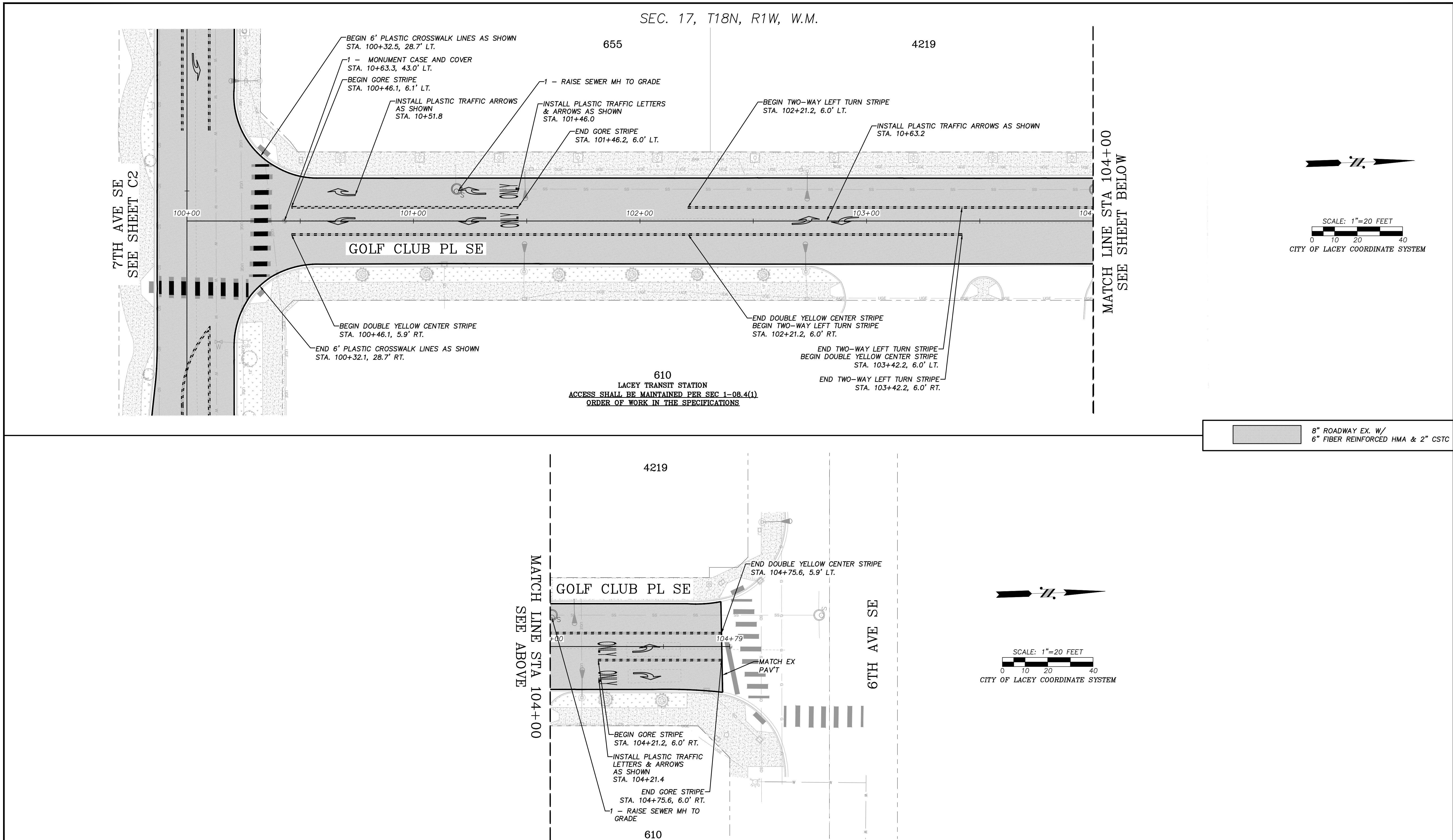
CITY OF LACEY, WASHINGTON  
DEPARTMENT OF PUBLIC WORKS  
420 COLLEGE STREET SE  
LACEY, WA 98503-1238 (360) 491-5600



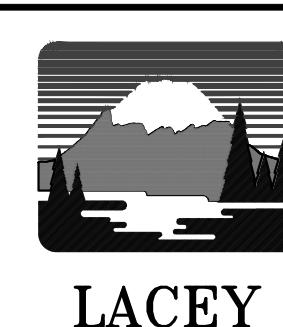
DESIGNED: BP/JK  
DRAFTED: BP/JK  
CHECKED: JK  
HORZ. SCALE: 1"-20'  
VERT. SCALE: N/A  
FILE: WP.DWG

2022 OVERLAY UTILITIES  
7TH AVE SE OVERLAY

REVISION BLOCK			PAGE NO.	SHEET NO.
NO.	DATE	DESCRIPTION	C3	15
			DWG NO. D-22-21	OF 25



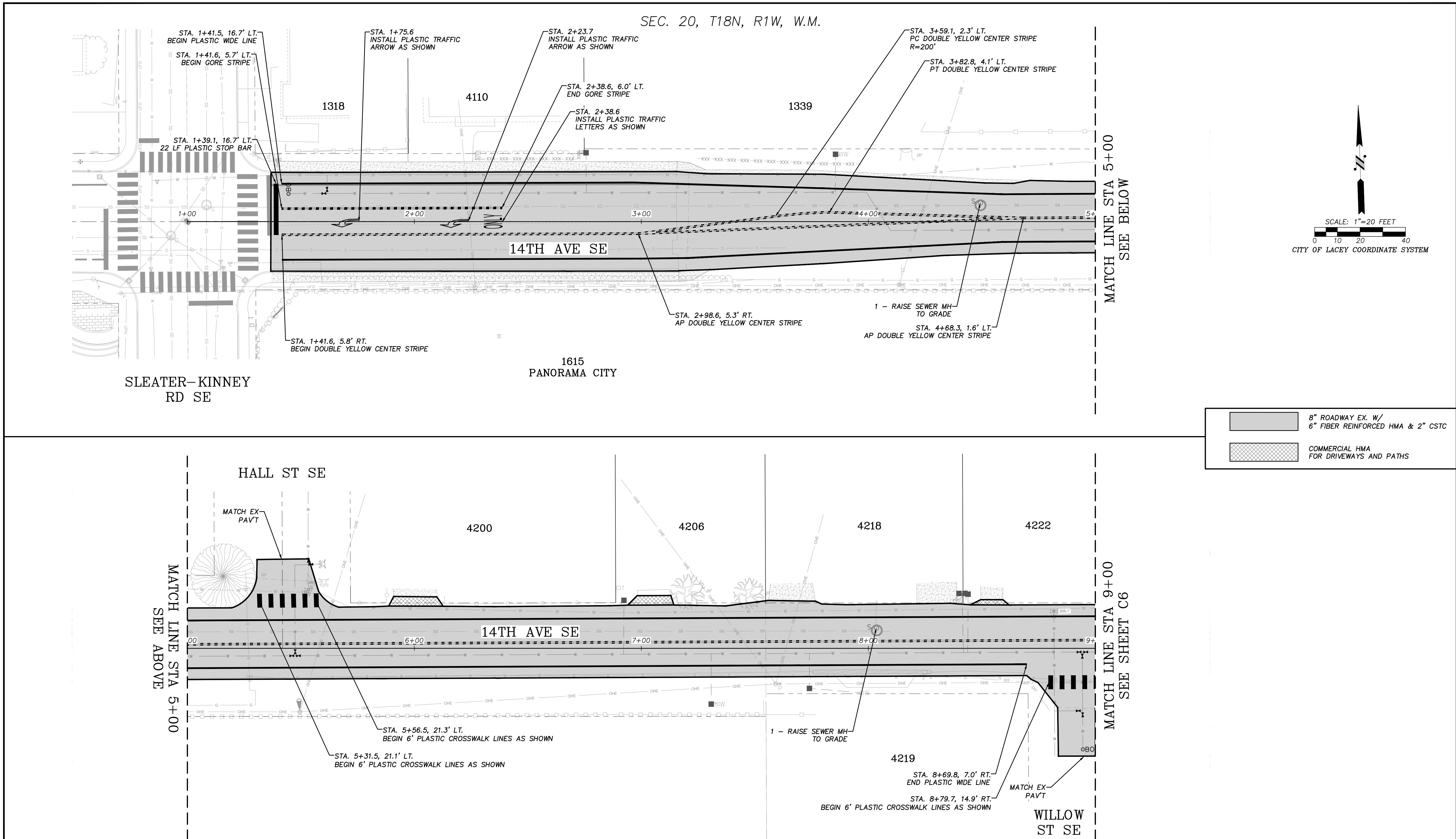
**CITY OF LACEY, WASHINGTON**  
DEPARTMENT OF PUBLIC WORKS  
420 COLLEGE STREET SE  
LACEY, WA 98503-1238      (360) 491-5600



DESIGNED: BP/JK  
DRAFTED: BP/JK  
CHECKED: JK  
HORZ. SCALE: 1"=20'  
VERT. SCALE: N/A  
FILE: WP.DWG

**2022 OVERLAY UTILITIES**  
**7TH AVE SE OVERLAY**

REVISION BLOCK			PAGE NO.	SHEET NO.
NO.	DATE	DESCRIPTION	C4	16
			DWG NO. D-22-21	OF 25



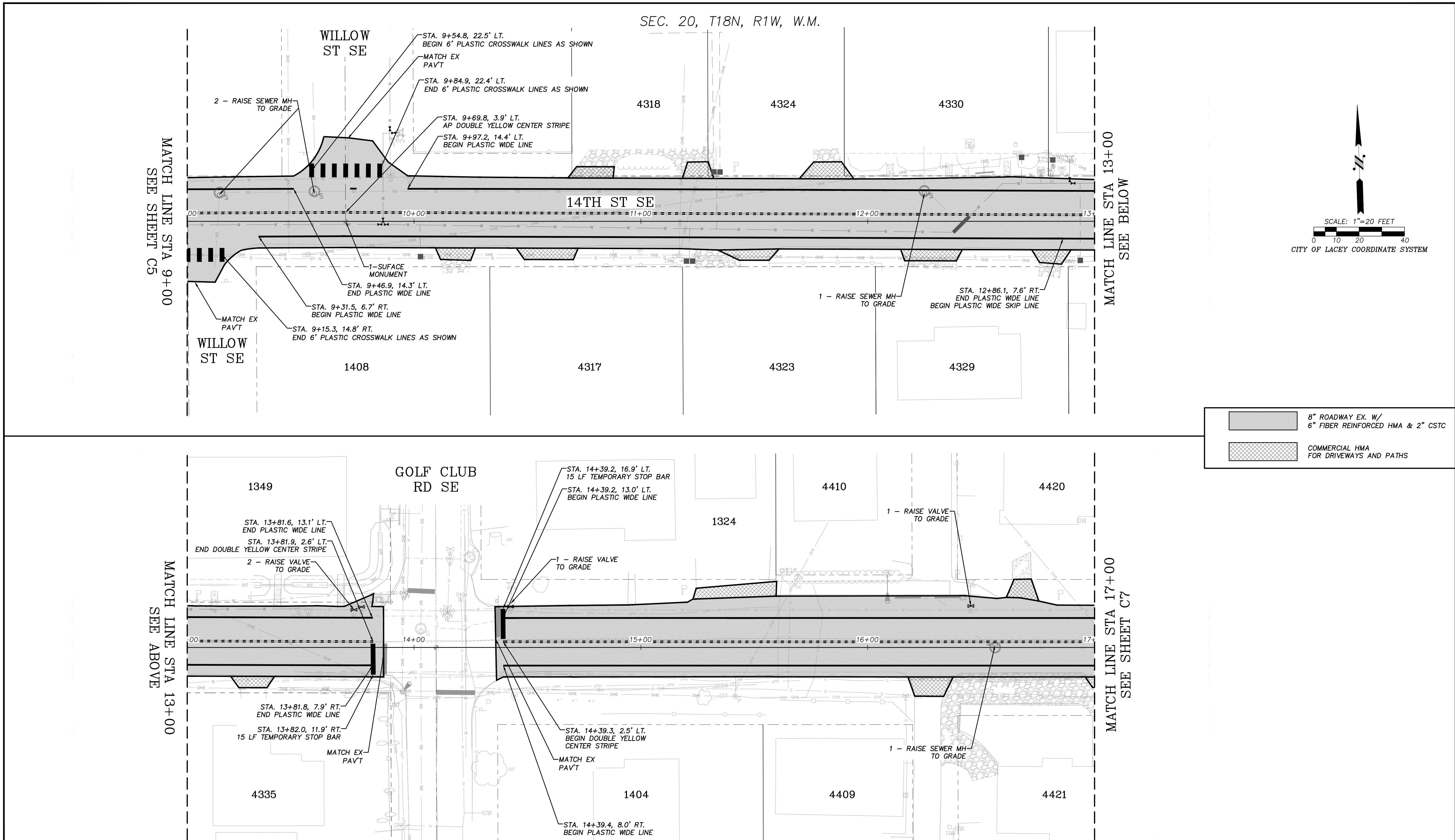
LACEY



AUSTIN K.  
JONSON  
PROFESSIONAL ENGINEER  
1/8/2022

DESIGNED: BP/JK  
DRAFTED: BP/JK  
CHECKED: JK  
HORZ. SCALE: 1"-20'  
VERT. SCALE: N/A  
FILE: WP.DWG

REVISION BLOCK		
NO.	DATE	DESCRIPTION
C5		
DWG NO.		
D-22-21		
PAGE NO.	17	OF
SHEET NO.	25	



**CITY OF LACEY, WASHINGTON**  
DEPARTMENT OF PUBLIC WORKS  
420 COLLEGE STREET SE  
LACEY, WA 98503-1238 (360) 491-5600



LACEY



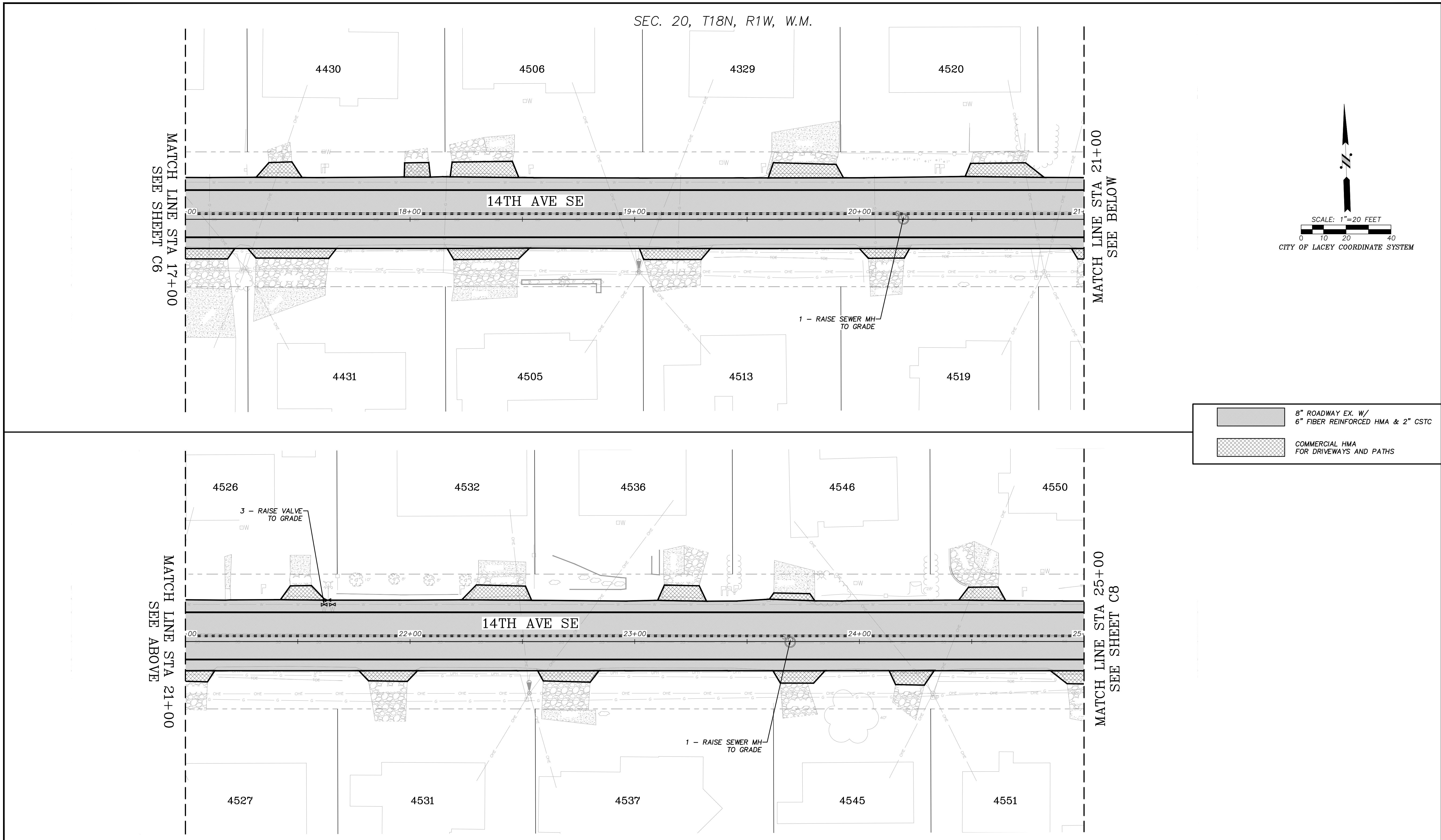
AUSTIN K. JOHNSON  
PROFESSIONAL ENGINEER  
1/8/2022

DESIGNED: BP/JK  
DRAFTED: BP/JK  
CHECKED: JK  
HORZ. SCALE: 1'=20'  
VERT. SCALE: N/A  
FILE: WP.DWG

**2022 OVERLAY UTILITIES  
14TH AVE SE OVERLAY**

REVISION BLOCK		
NO.	DATE	DESCRIPTION
C6		
DWG NO.		

PAGE NO. 18 OF 25  
SHEET NO. 18 OF 25  
DWG NO. D-22-21



CITY OF LACEY, WASHINGTON  
DEPARTMENT OF PUBLIC WORKS  
420 COLLEGE STREET SE  
LACEY, WA 98503-1238 (360) 491-5600



LACEY



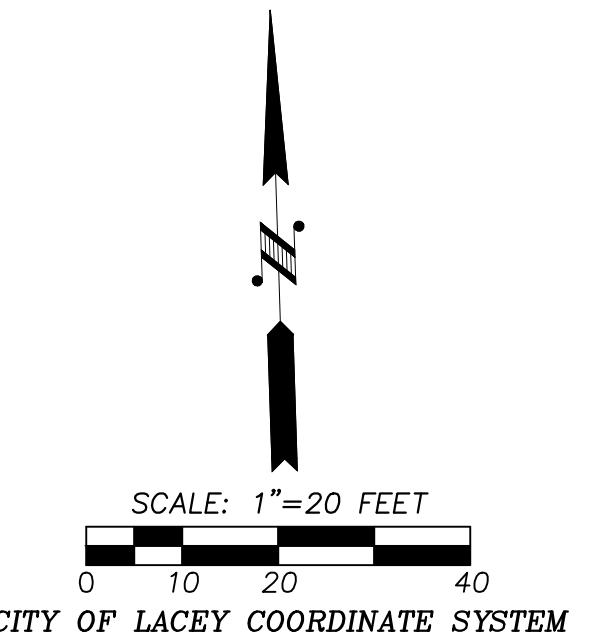
AUSTIN K.  
JONSON  
PROFESSIONAL ENGINEER  
REG. NO. 4050  
1/8/12

DESIGNED: BP/JK  
DRAFTED: BP/JK  
CHECKED: JK  
HORZ. SCALE: 1'=20'  
VERT. SCALE: N/A  
FILE: WP.DWG

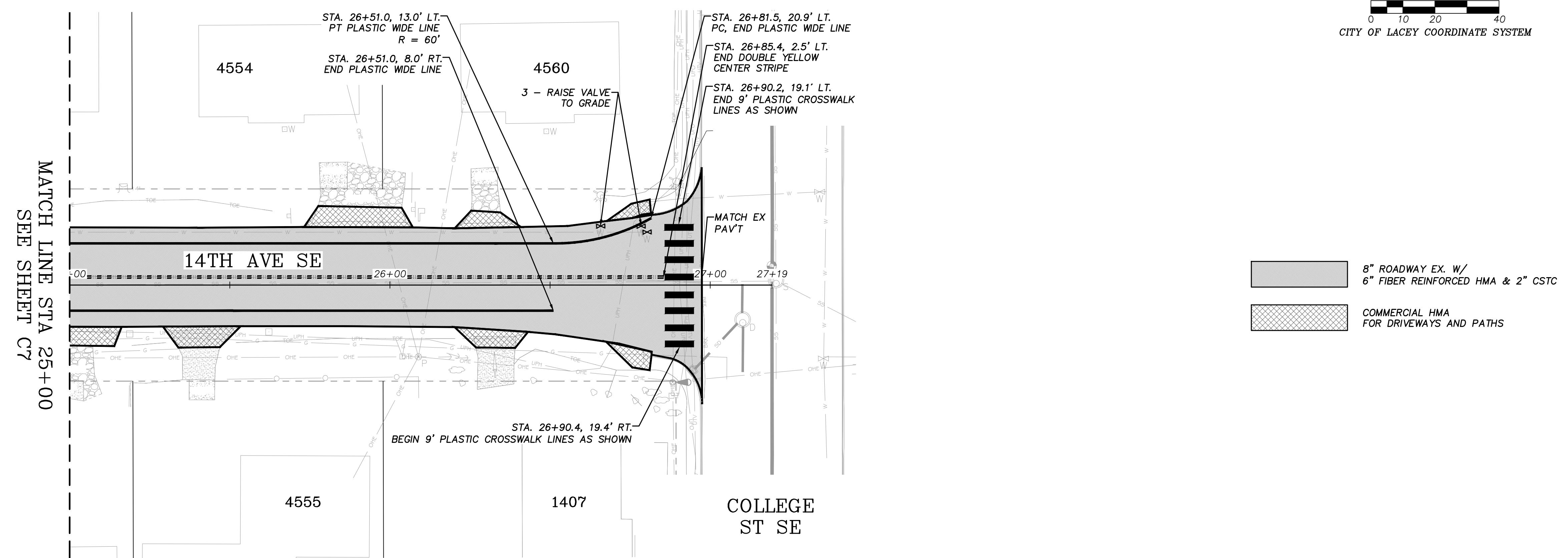
2022 OVERLAY UTILITIES  
14TH AVE SE OVERLAY

REVISION BLOCK			PAGE NO.	SHEET NO.
NO.	DATE	DESCRIPTION	C7	19
			DWG NO.	OF
			D-22-21	25

SEC. 20, T18N, R1W, W.M.



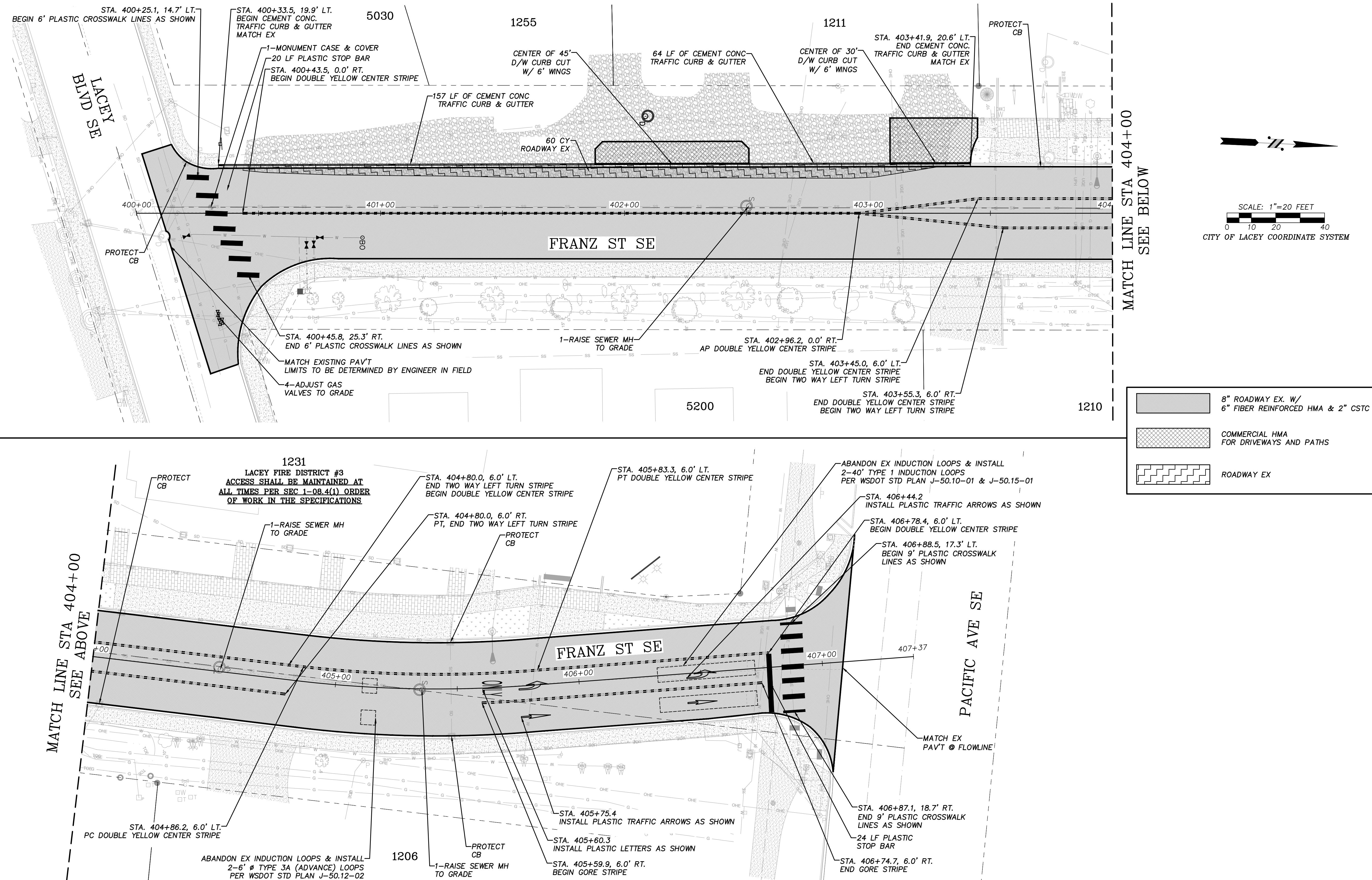
CITY OF LACEY COORDINATE SYSTEM



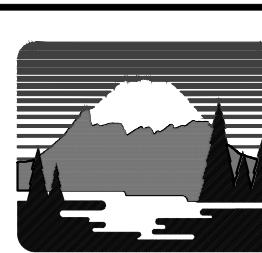
REVISION BLOCK		
NO.	DATE	DESCRIPTION

PAGE NO.	SHEET NO.
C8	20
DWG NO.	OF
D-22-21	25

SEC. 21, T18N, R1W, W.M.



**CITY OF LACEY, WASHINGTON  
DEPARTMENT OF PUBLIC WORKS  
420 COLLEGE STREET SE  
LACEY, WA 98503-1238 (360) 491-5600**



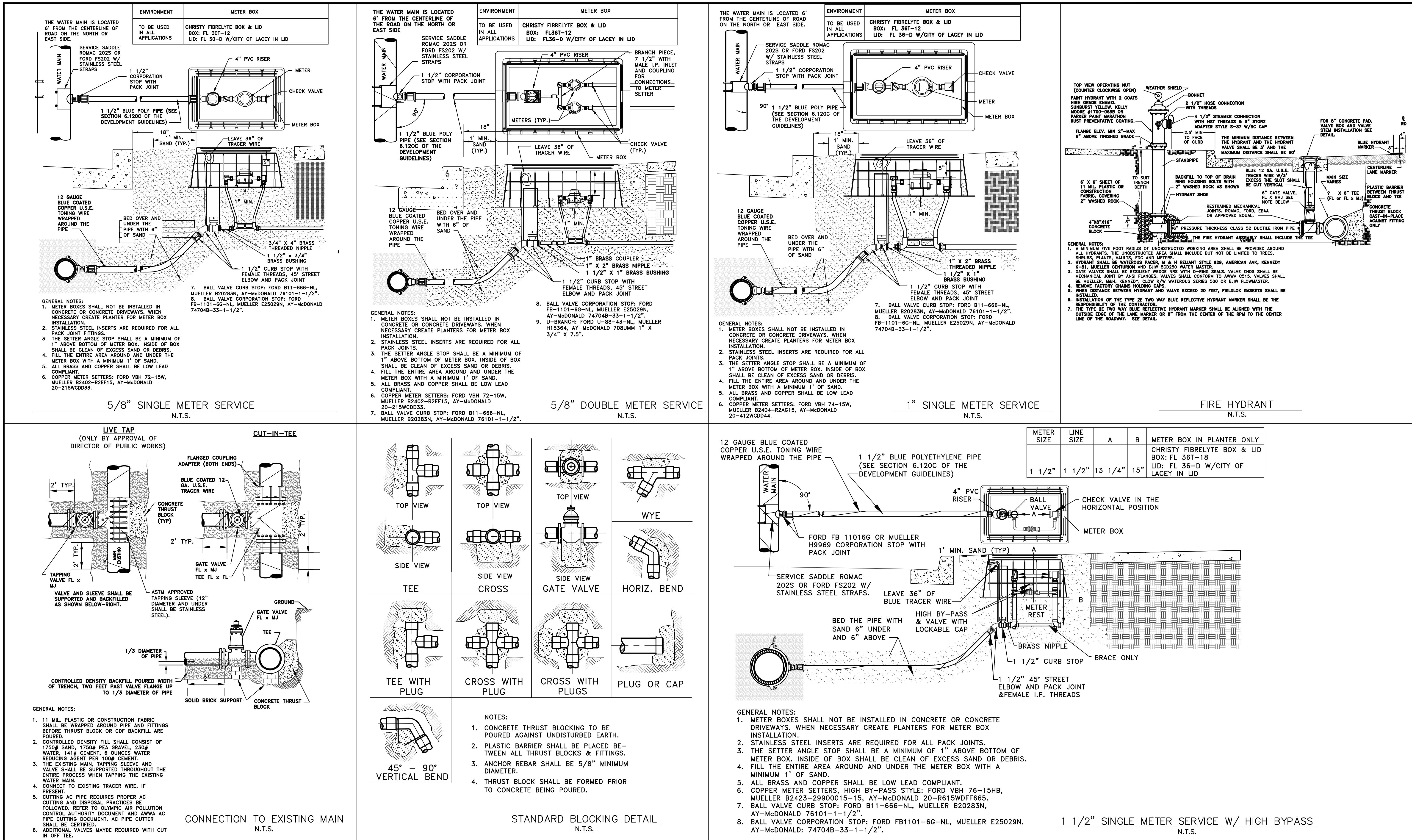
JACE

<b>DESIGNED:</b>	BP/JK
<b>DRAFTED:</b>	BP/JK
<b>CHECKED:</b>	JK
<b>HORZ. SCALE:</b>	1"=20'
<b>VERT. SCALE:</b>	N/A
<b>FILE:</b>	WP.DWG

# 2022 OVERLAY UTILITIES

## FRANZ ST SE OVERLAY

REVISION BLOCK			PAGE NO.	SHEET NO.
NO.	DATE	DESCRIPTION		
			C9	21
				OF
				25
			DWG NO.	
			D-22-21	



CITY OF LACEY, WASHINGTON  
DEPARTMENT OF PUBLIC WORKS  
420 COLLEGE STREET S.E. P.O. BOX 3400  
LACEY, WA 98509-3400 (360) 491-5600



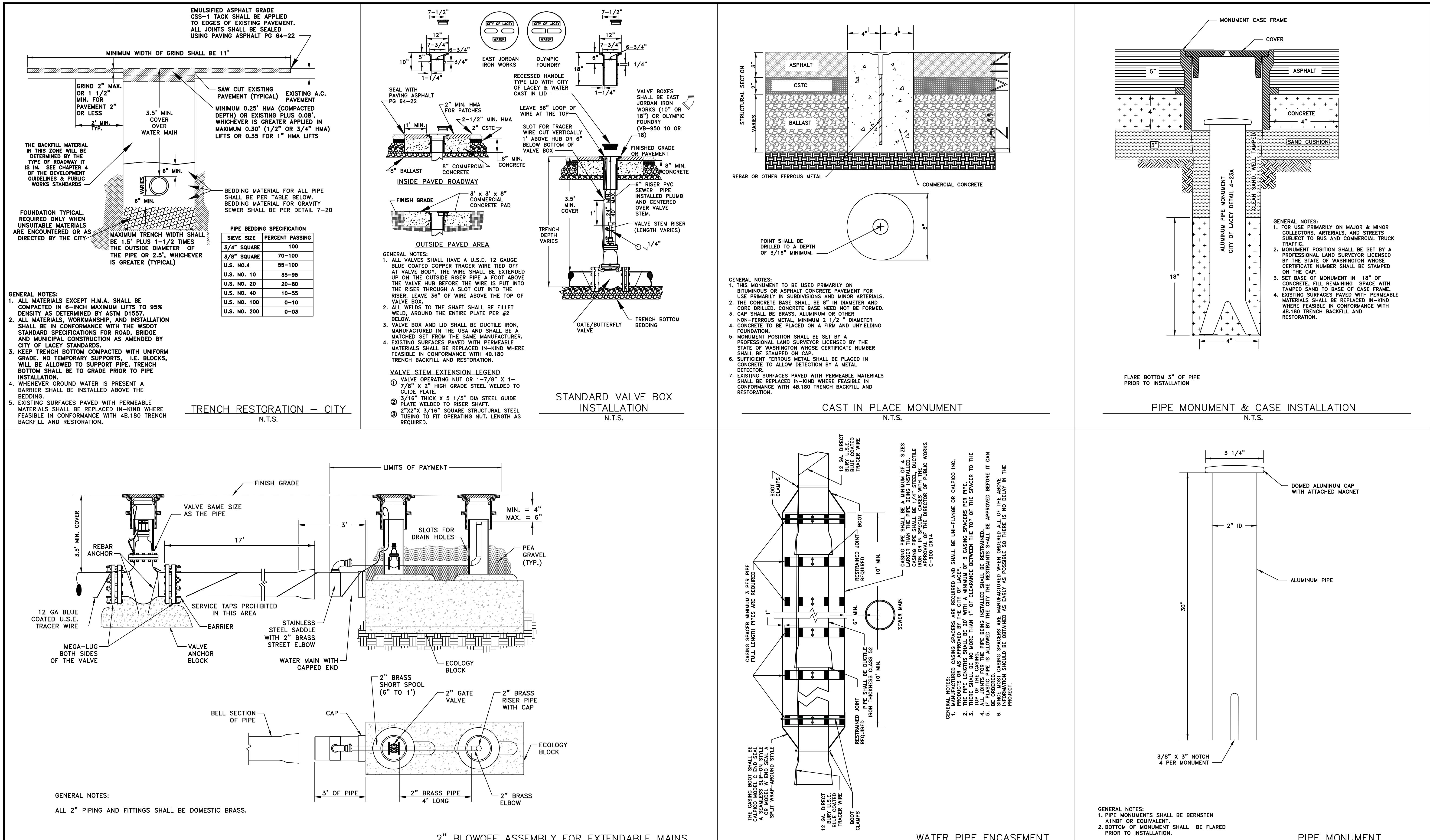
LACEY



DESIGNED: BP/JK  
DRAFTED: BP/JK  
CHECKED: JK  
HORZ. SCALE: N/A  
VERT. SCALE: N/A  
FILE: DT

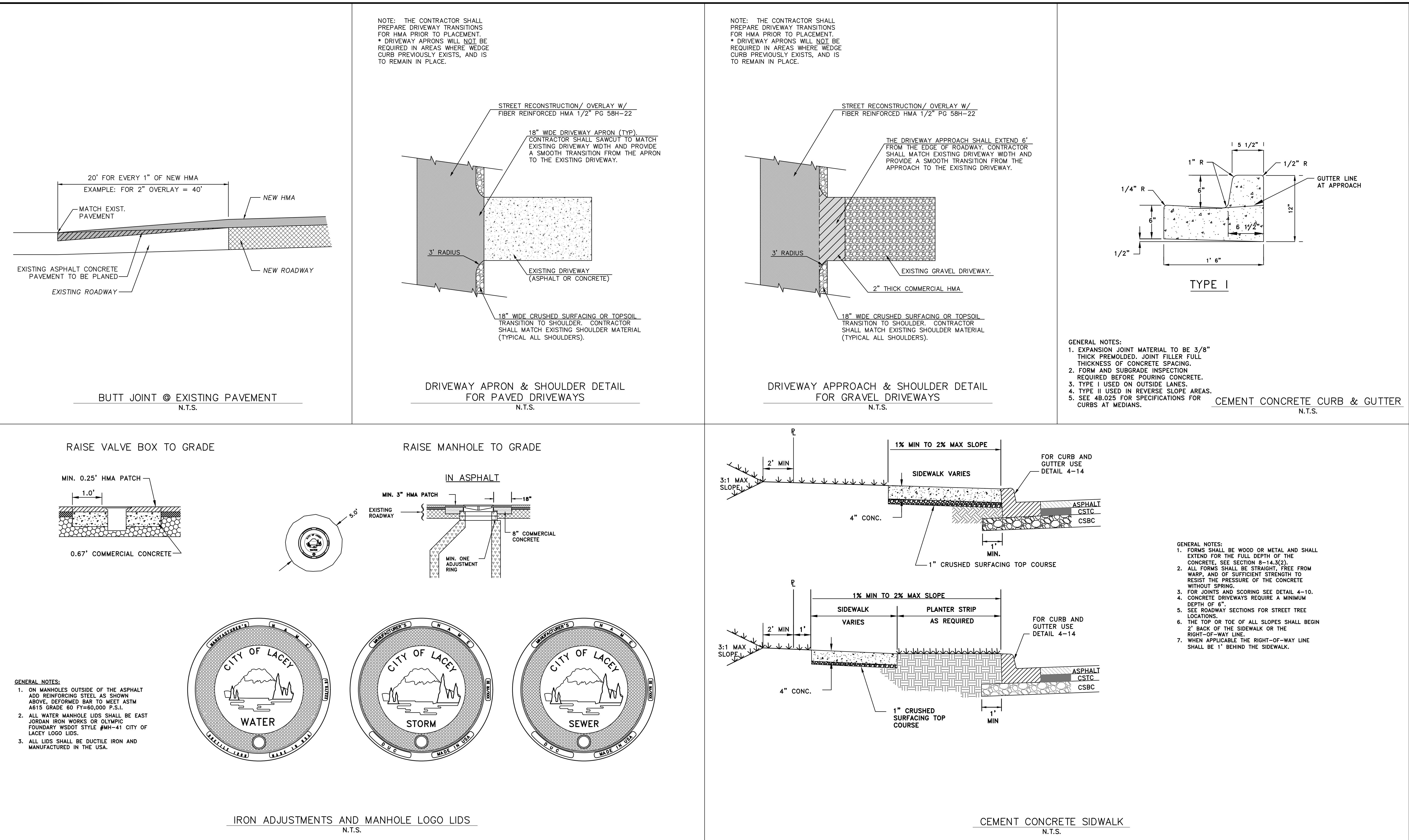
## 2022 OVERLAY UTILITIES CONSTRUCTION DETAILS

REVISION BLOCK			
NO.	DATE	DESCRIPTION	PAGE NO.
DT1			22
D-22-21			OF 25



DESIGNED: BP/JK  
DRAFTED: BP/JK  
CHECKED: JK  
HORZ. SCALE: N/A  
VERT. SCALE: N/A  
FILE: DT

REVISION BLOCK			PAGE NO.	SHEET NO.
NO.	DATE	DESCRIPTION	DT2	23 OF 25
DWG NO.			D-22-21	



DESIGNED: BP/JK  
DRAFTED: BP/JK  
CHECKED: JK  
HORZ. SCALE: N/A  
VERT. SCALE: N/A  
FILE: DM

REVISION BLOCK			PAGE NO.	SHEET NO.
NO.	DATE	DESCRIPTION	DT3	24
			DWG NO.	OF
			D-22-21	25

