

2022 CARPENTER RD IMPROVEMENTS

LACEY CONTRACT # PW 2022-36
SECTION 22, T18N, R1W, W.M.

LACEY CITY OFFICIALS

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

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Aubrey Collier 10/4/2022
City Engineer DATE



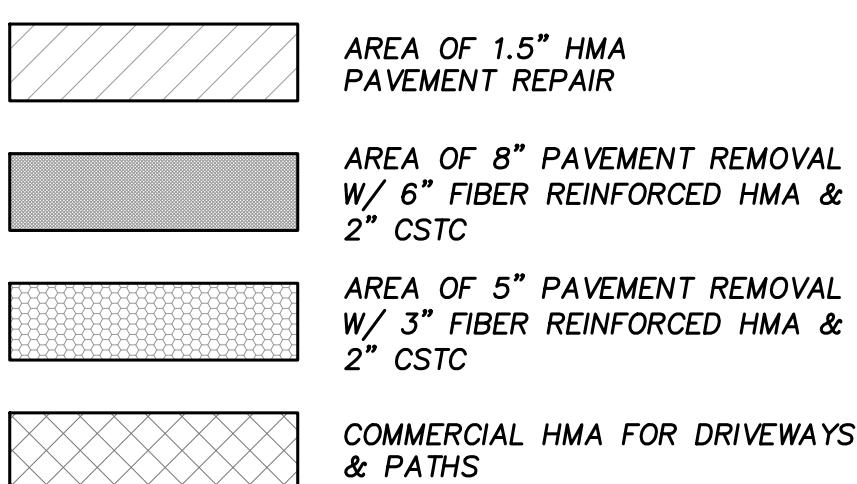
Lacey Dwg. Number :
D-22-02

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—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
STA	STATION	V.P.I.	VERTICAL POINT OF INTERSECTION	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

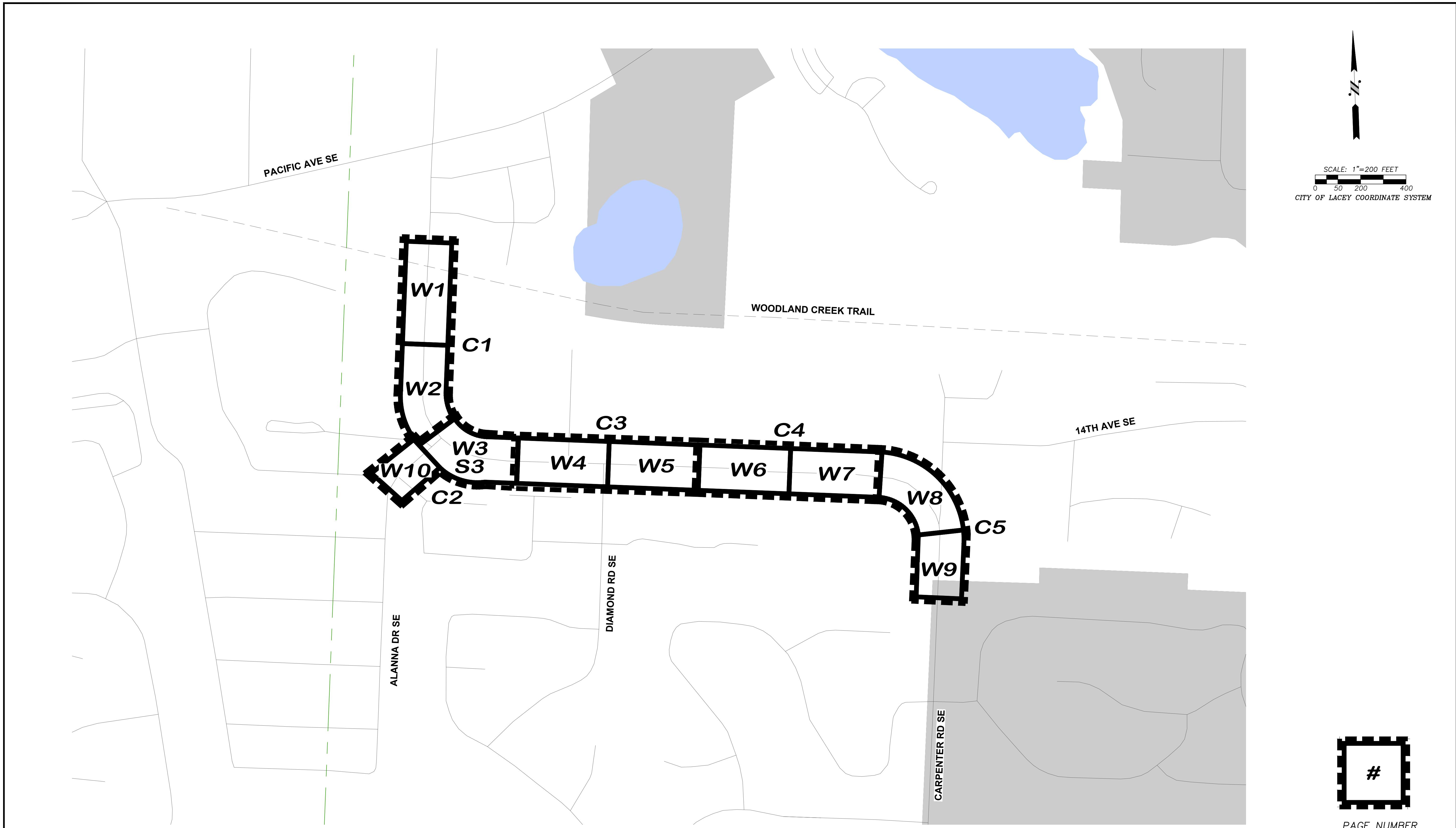
BLA REFERENCED
AF#3041067, 3388527

PLATS REFERENCED
AF#773765, 780166, 8606130004, 9504060050



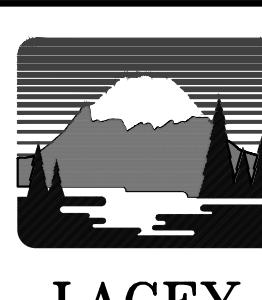
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VERT. SCALE: N/A
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			GN	DWG NO.	25



PAGE NUMBER
FOR
IMPROVEMENT
PLANS.

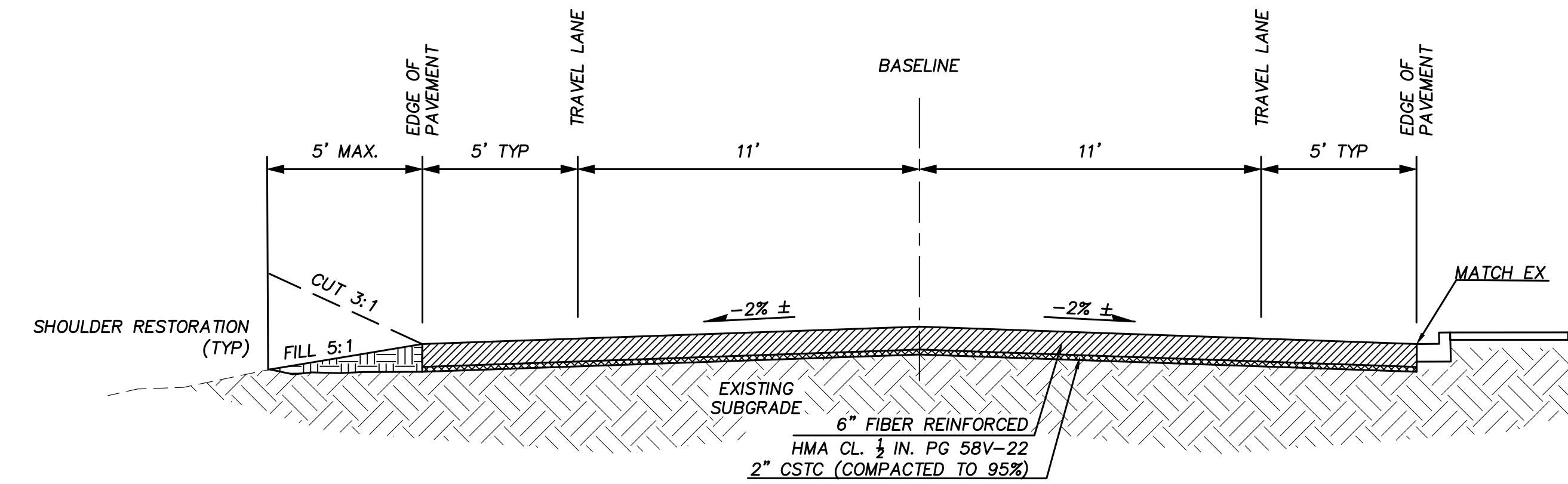
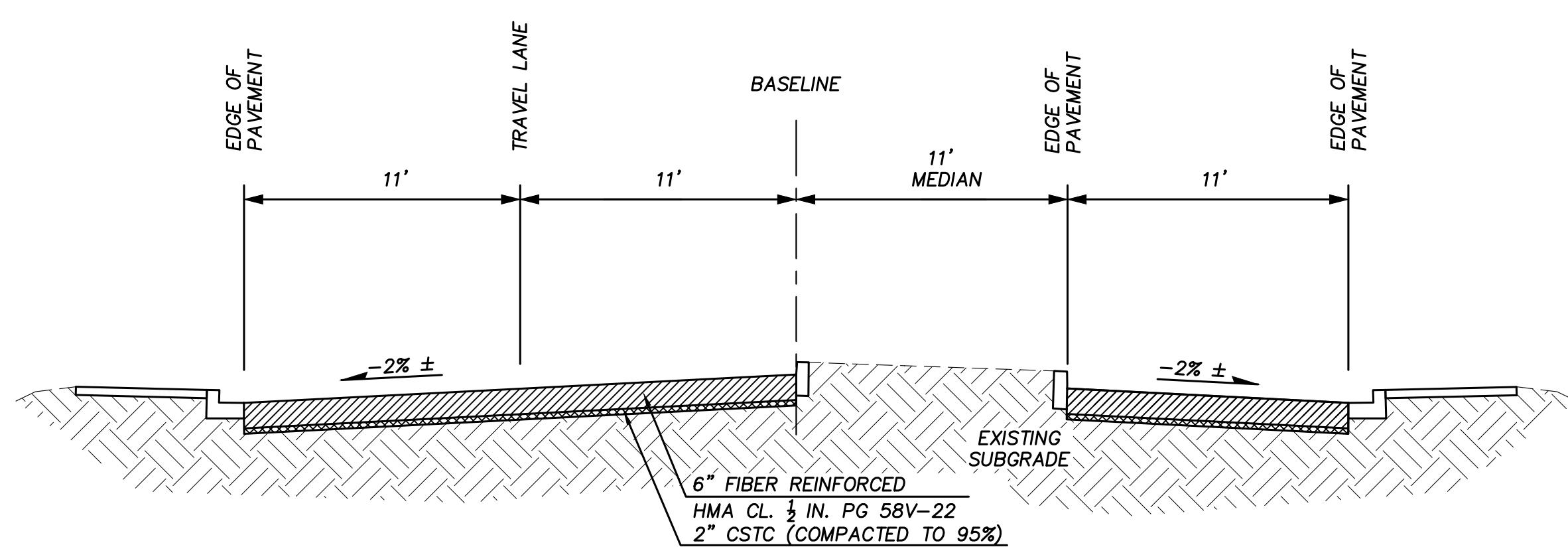
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420 COLLEGE STREET SE
LACEY, WA 98503-1238 (360) 491-5600



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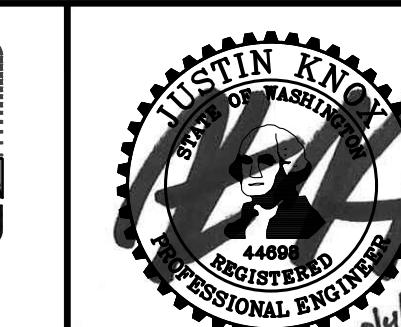
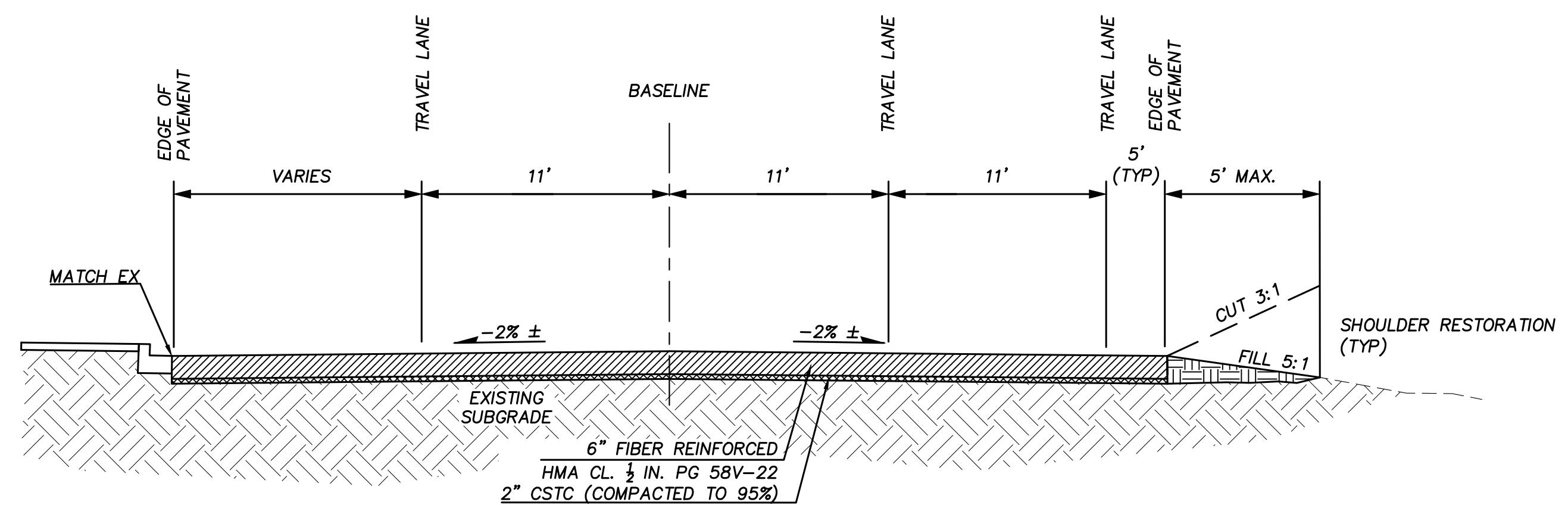
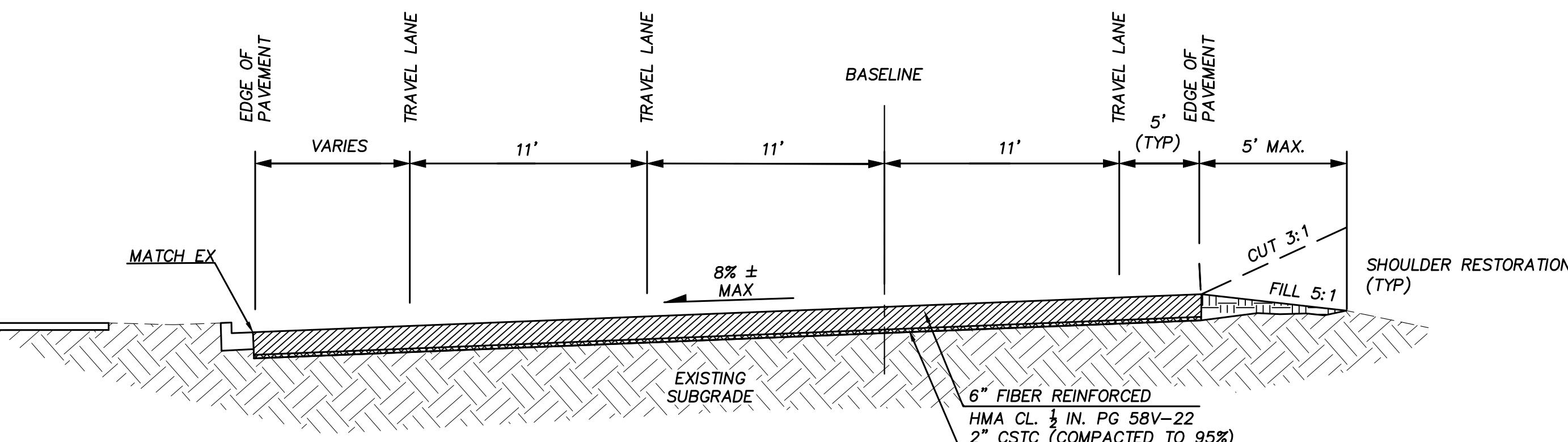
CARPENTER RD IMPROVEMENTS KEY PLAN

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KP			D-22-02	25
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				3



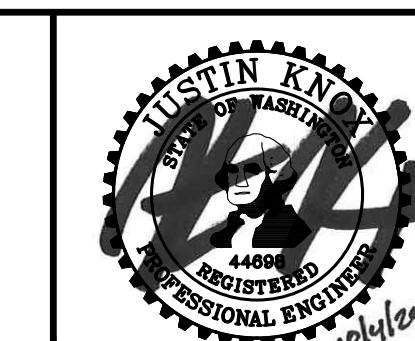
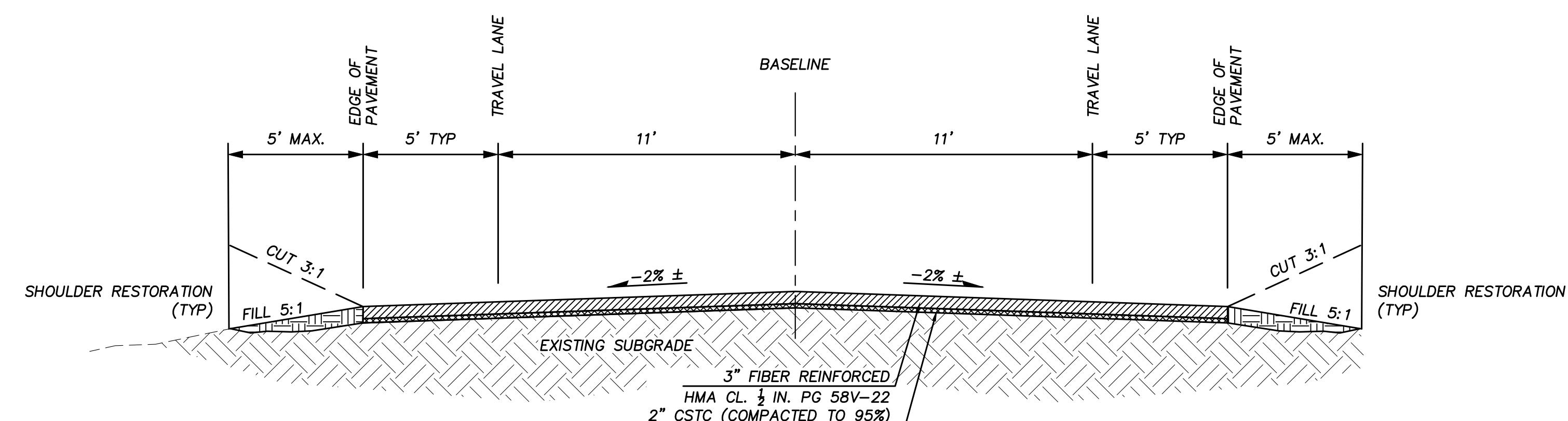
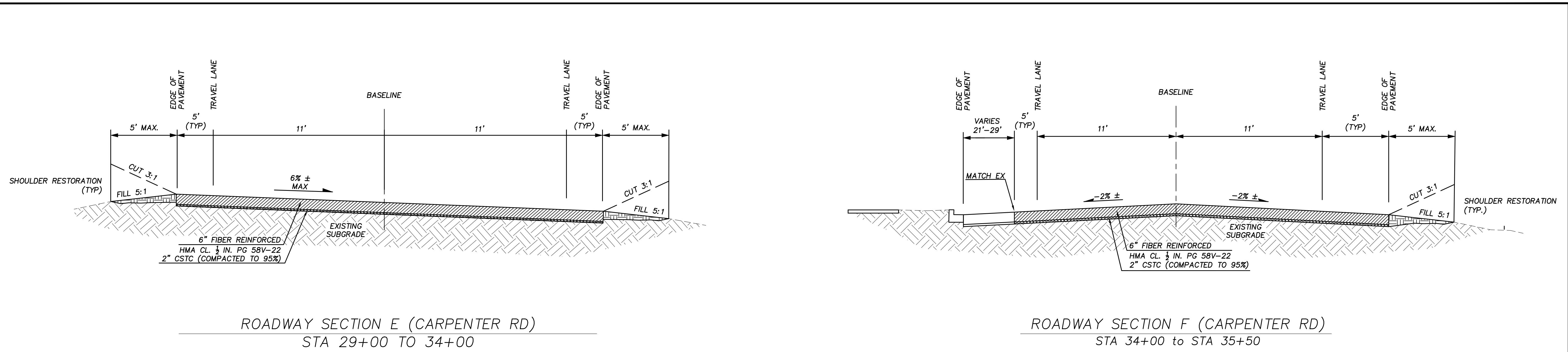
TYPICAL CROSS-SECTION NOTES:

1. EXISTING PAVT THICKNESS IS EXPECTED TO BE 5"-6" ON CARPENTER RD. AND 2"-3" ON ALL OTHER STREETS.
2. EDGE CONDITIONS WILL VARY. CONDITION SHOWN IS TYPICAL FOR EACH SECTION.



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CHECKED: JK
HORZ. SCALE: NTS
VERT. SCALE: N/A
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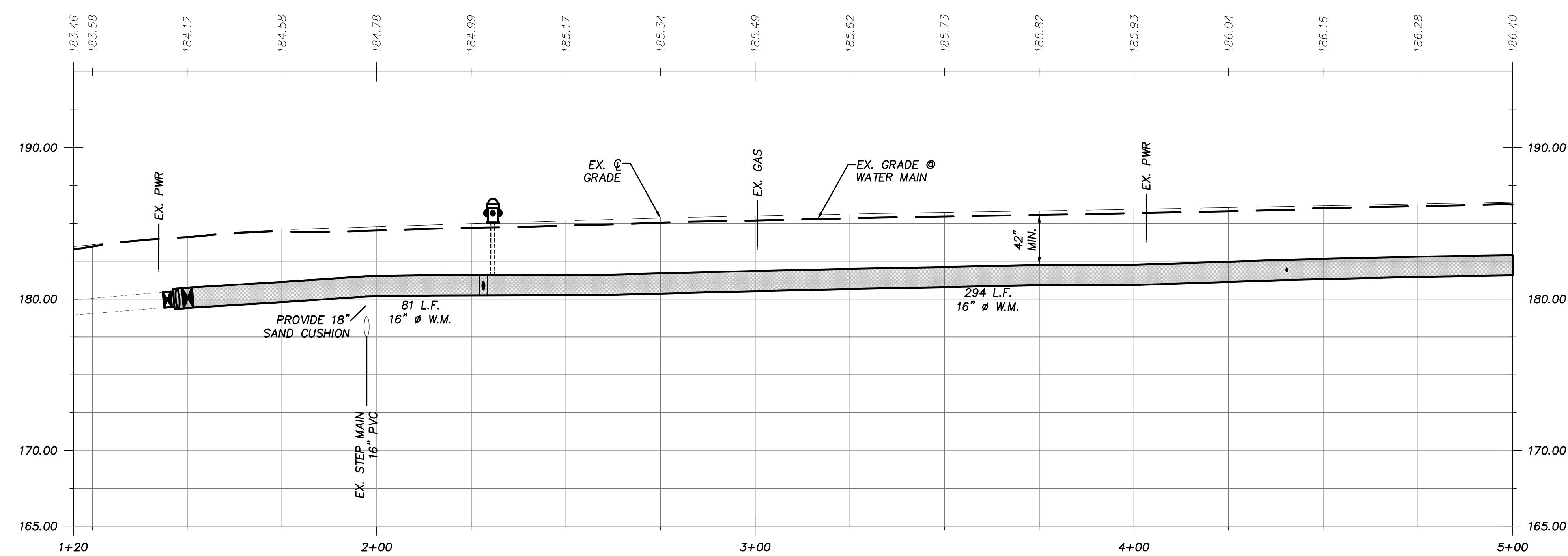
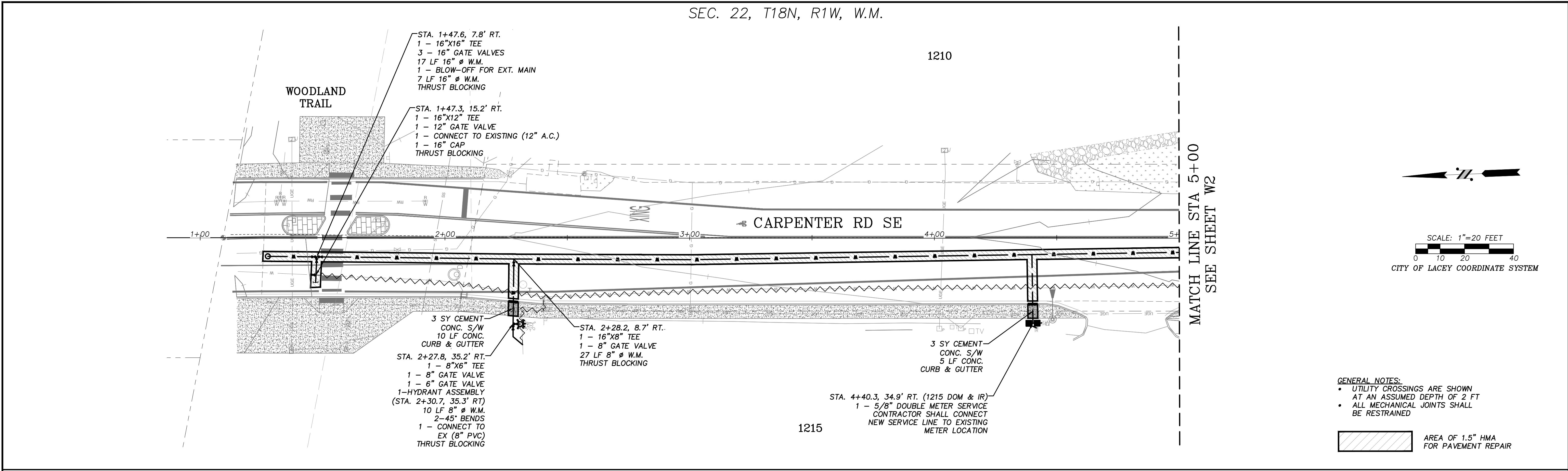


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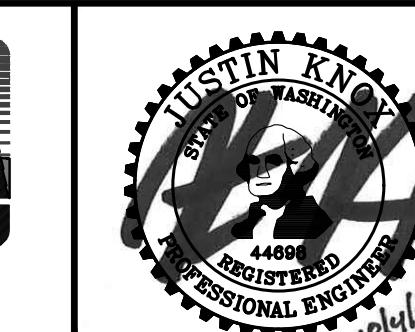
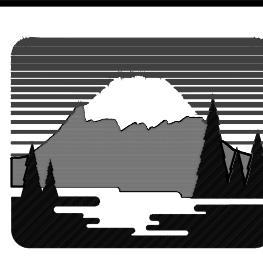
CARPENTER RD IMPROVEMENTS
TYPICAL CROSS SECTIONS

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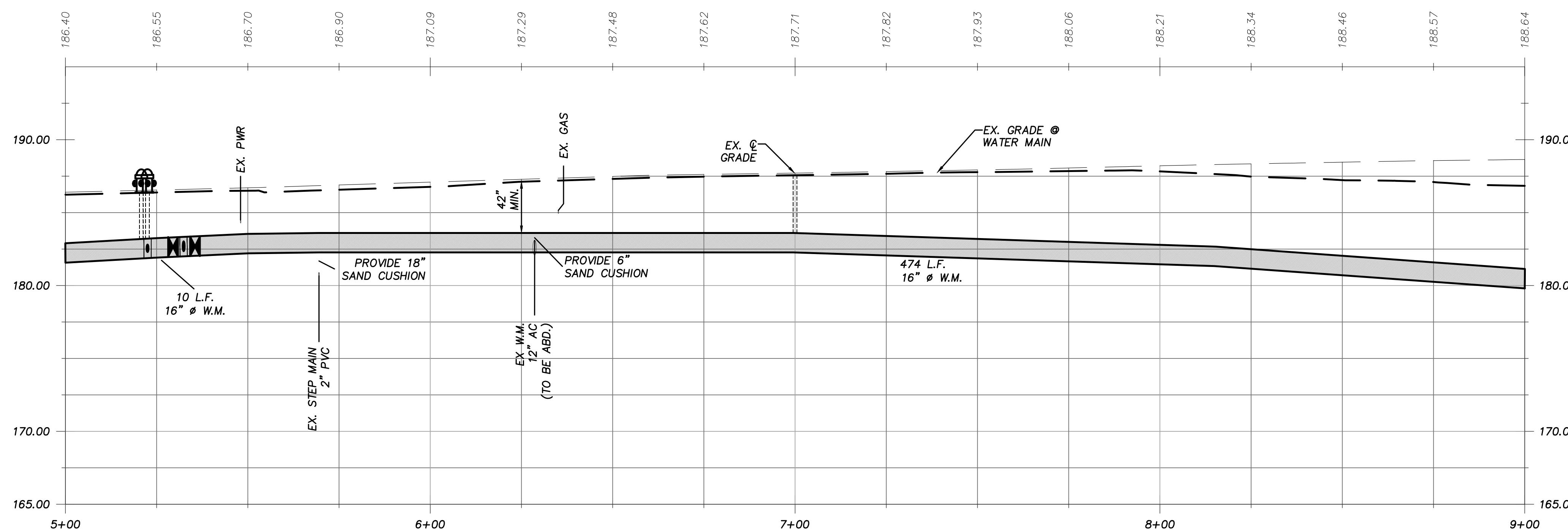
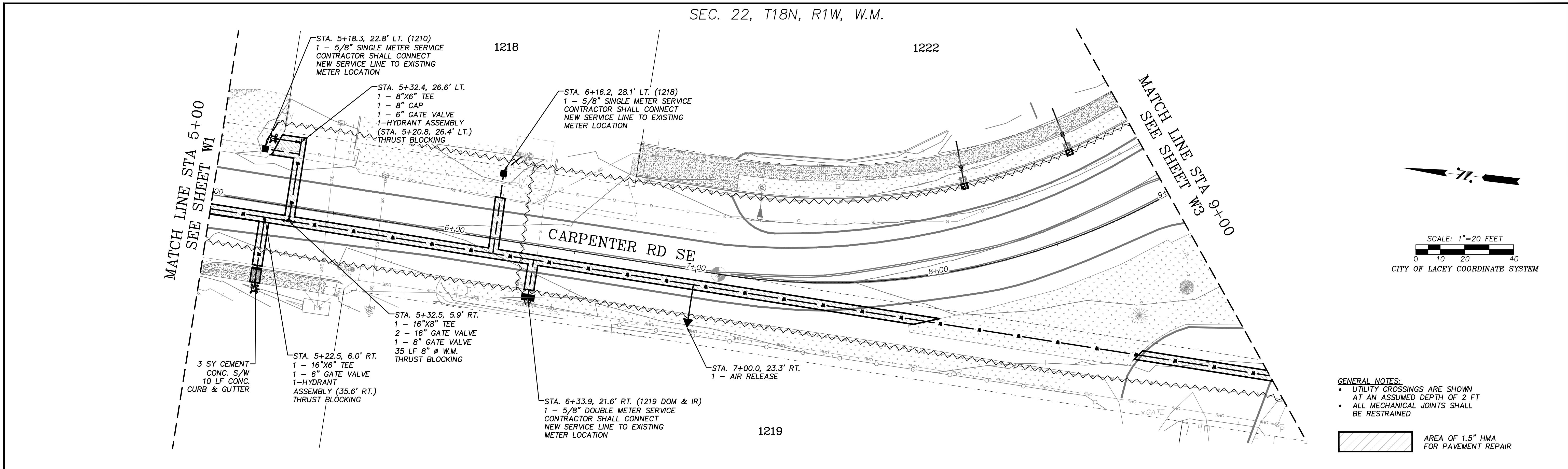
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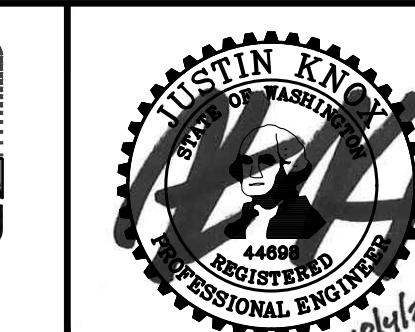
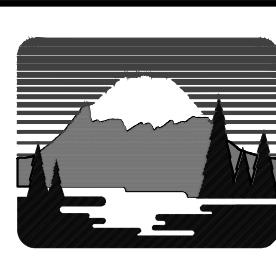
CARPENTER RD IMPROVEMENTS
WATER PLANS
STA 1+20 TO STA 5+00

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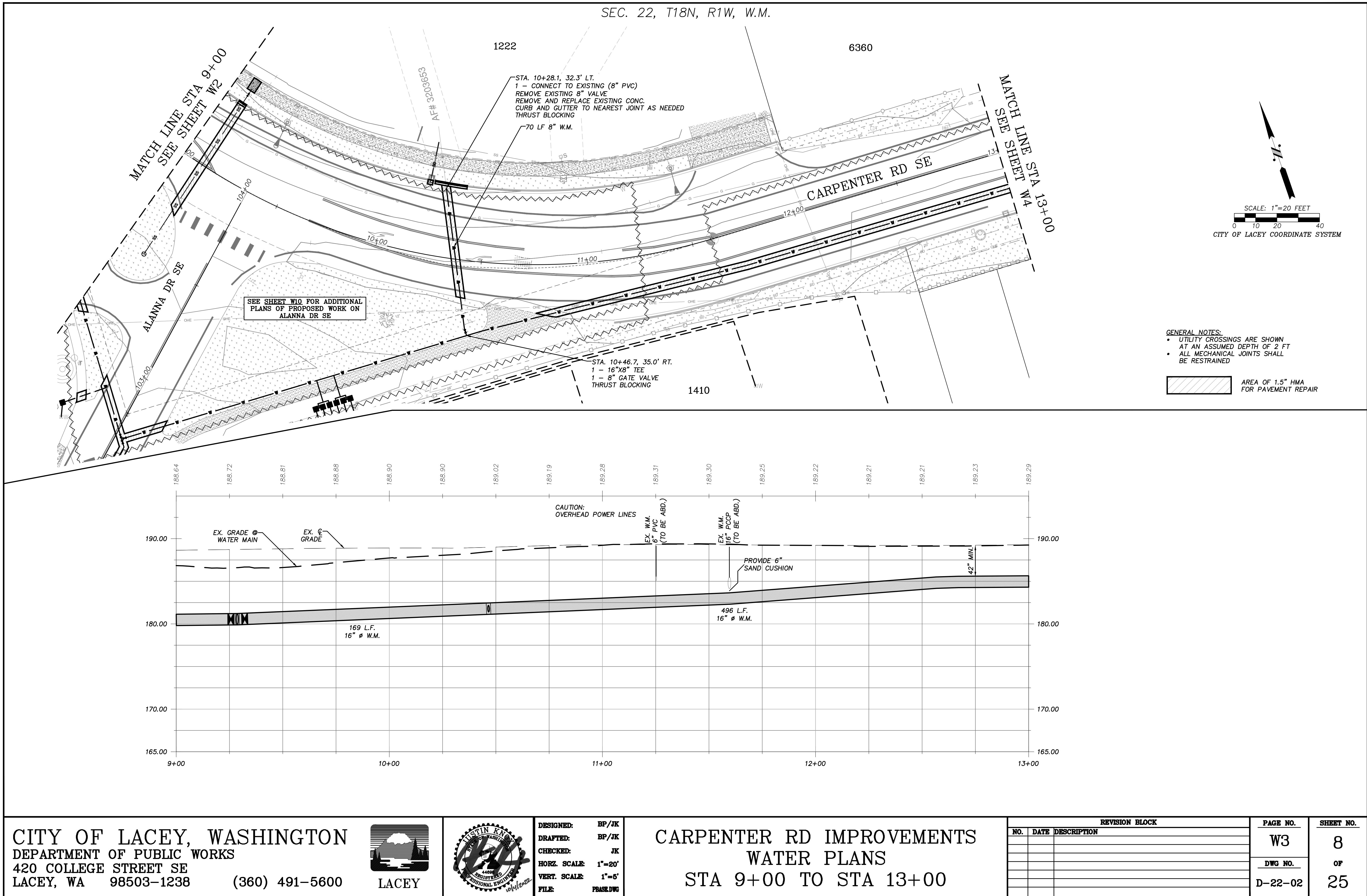
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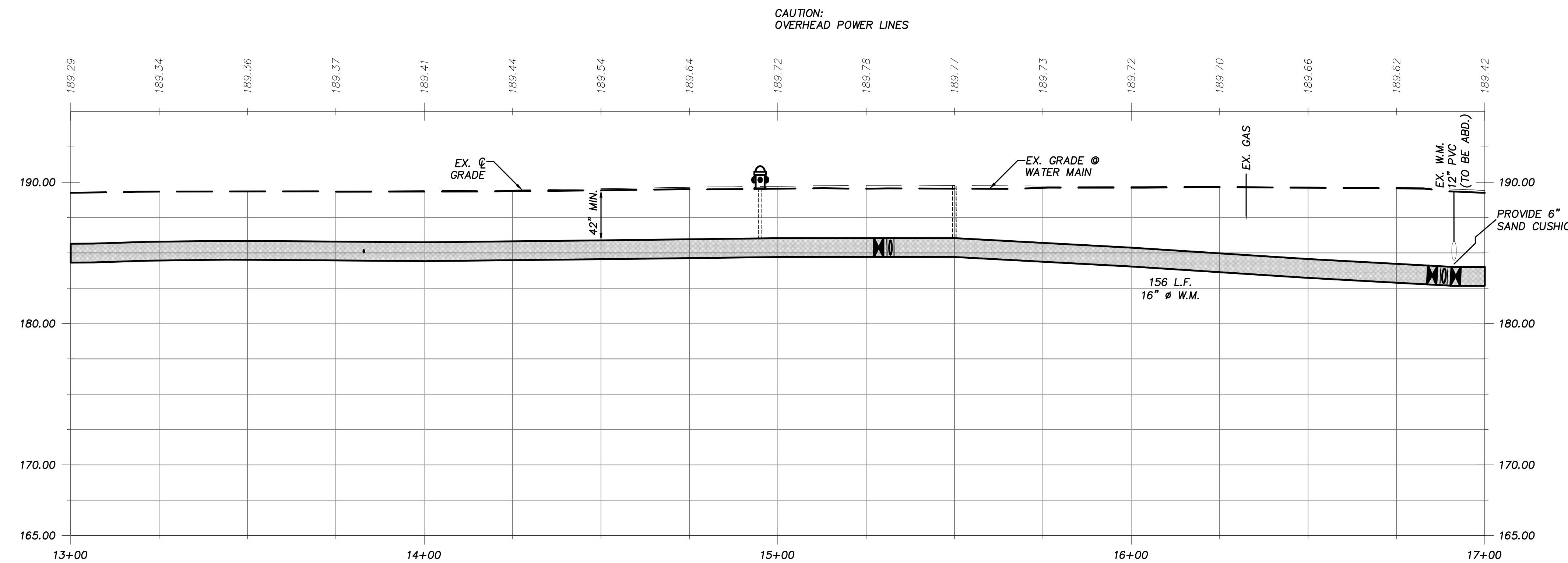
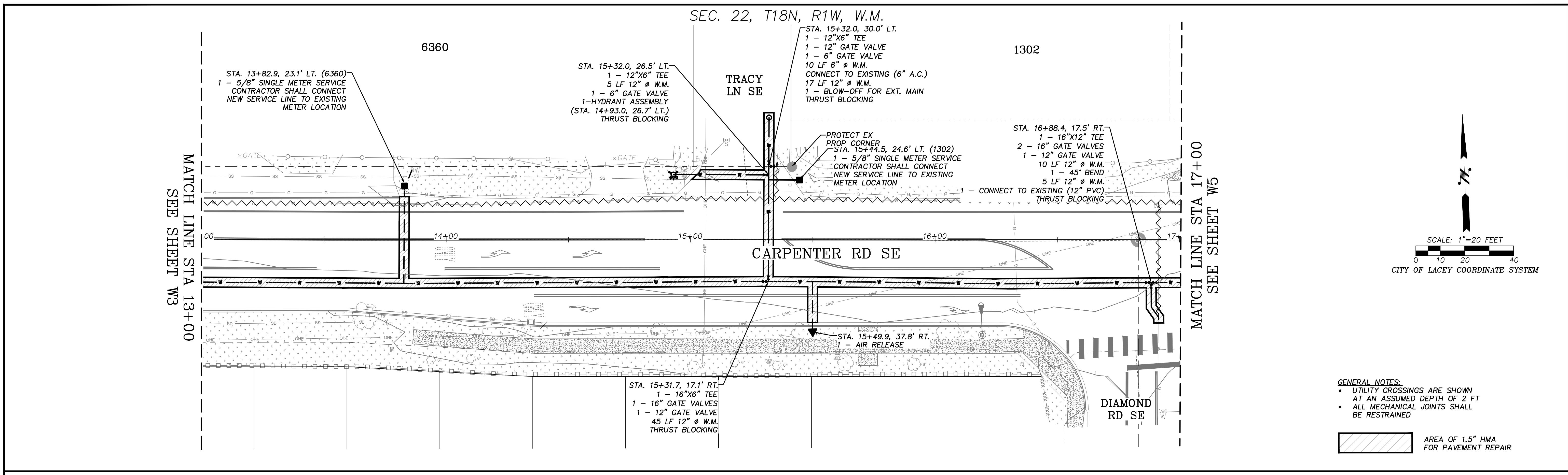


CARPENTER RD IMPROVEMENTS
WATER PLANS
STA 5+00 TO STA 9+00

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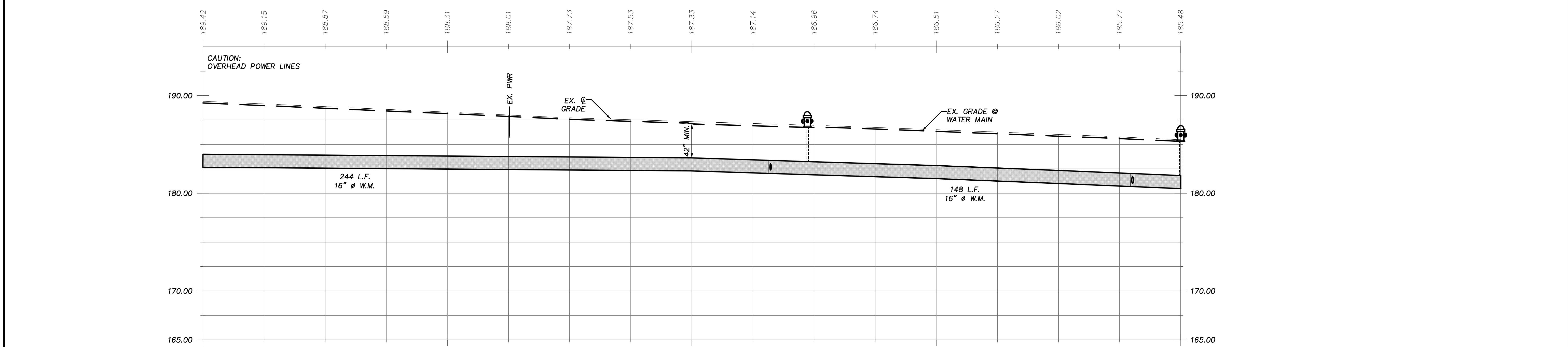
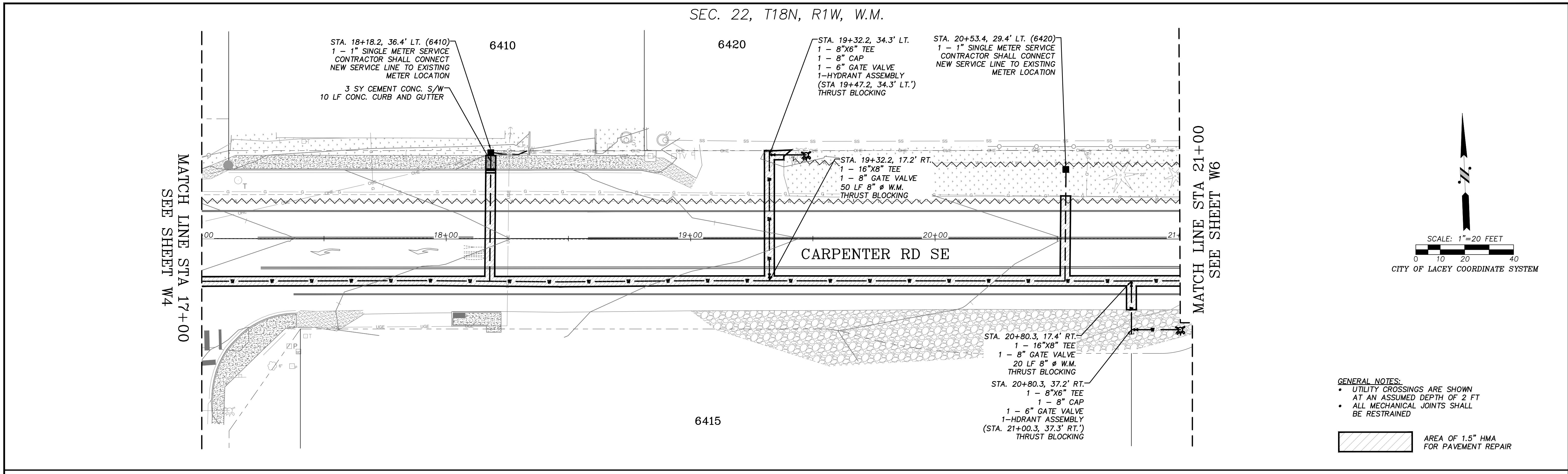
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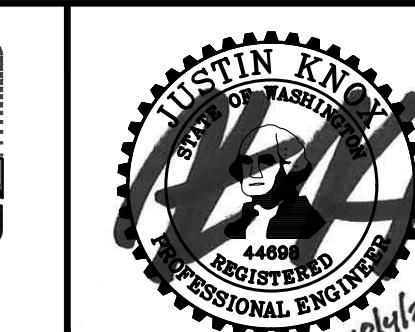
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CARPENTER RD IMPROVEMENTS
WATER PLANS
STA 13+00 TO STA 17+00

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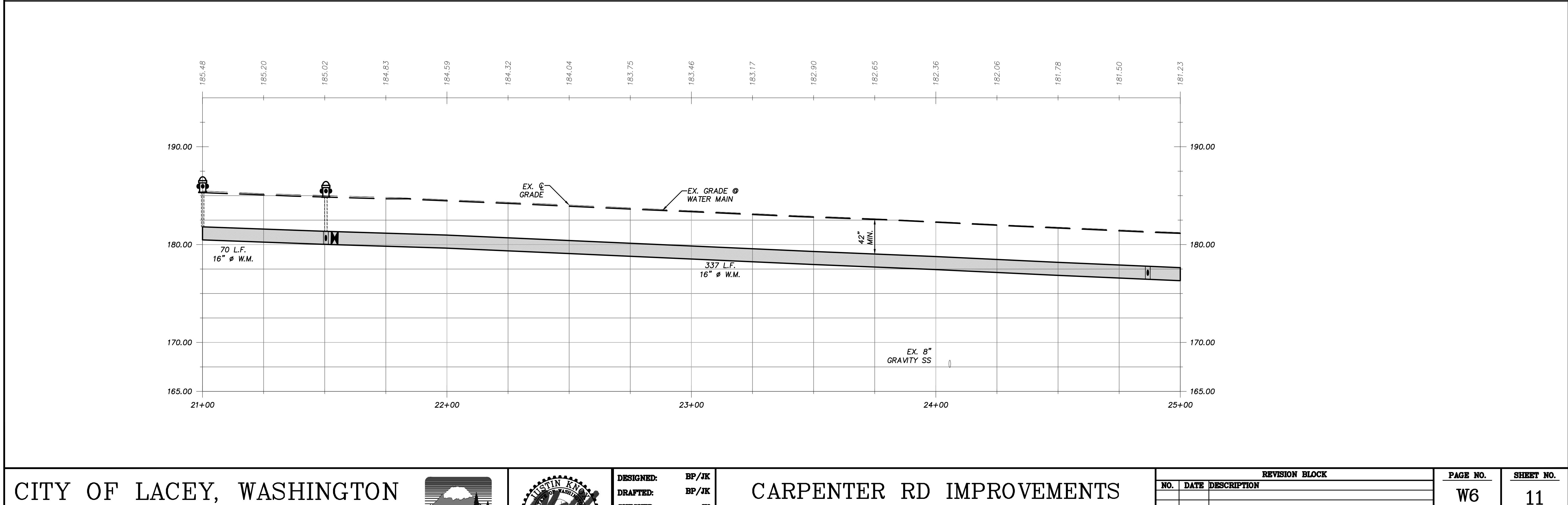
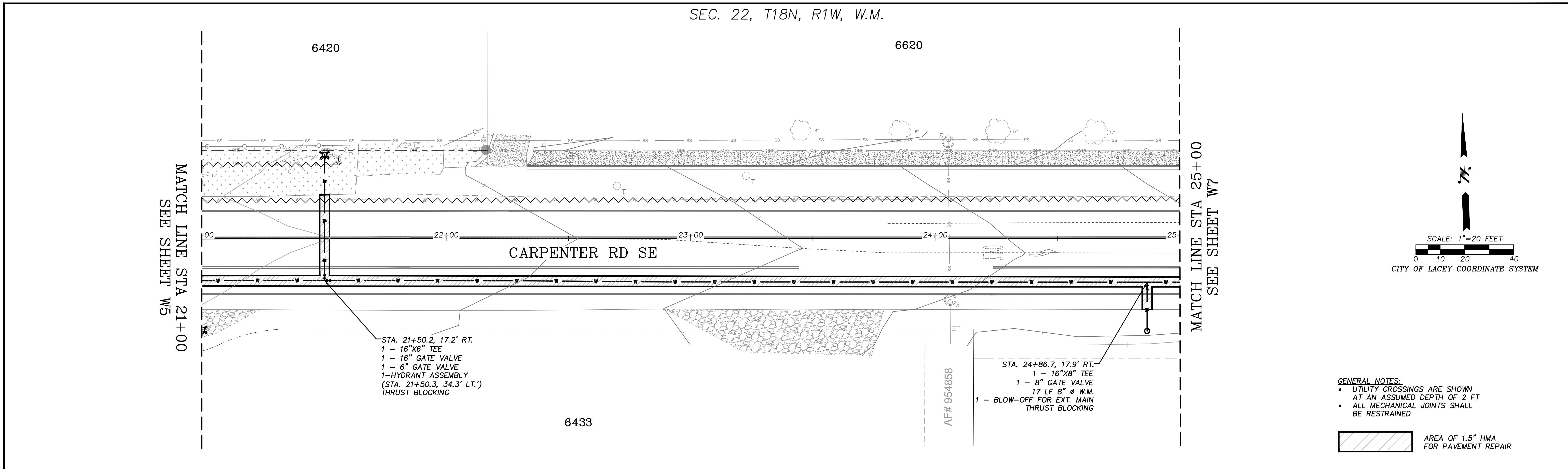
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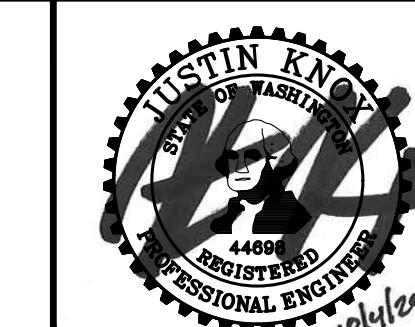
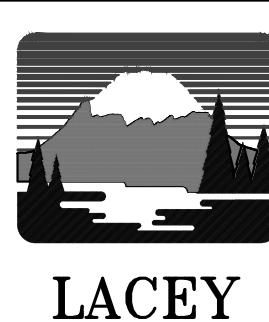
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CARPENTER RD IMPROVEMENTS
WATER PLANS
STA 17+00 TO STA 21+00

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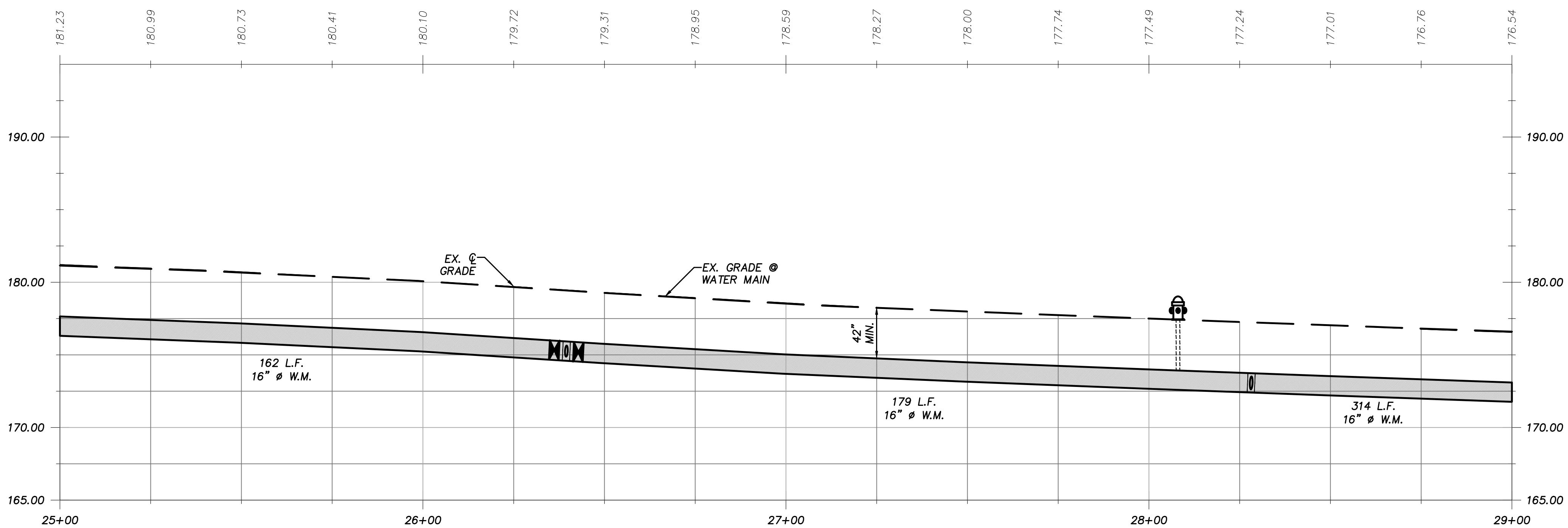
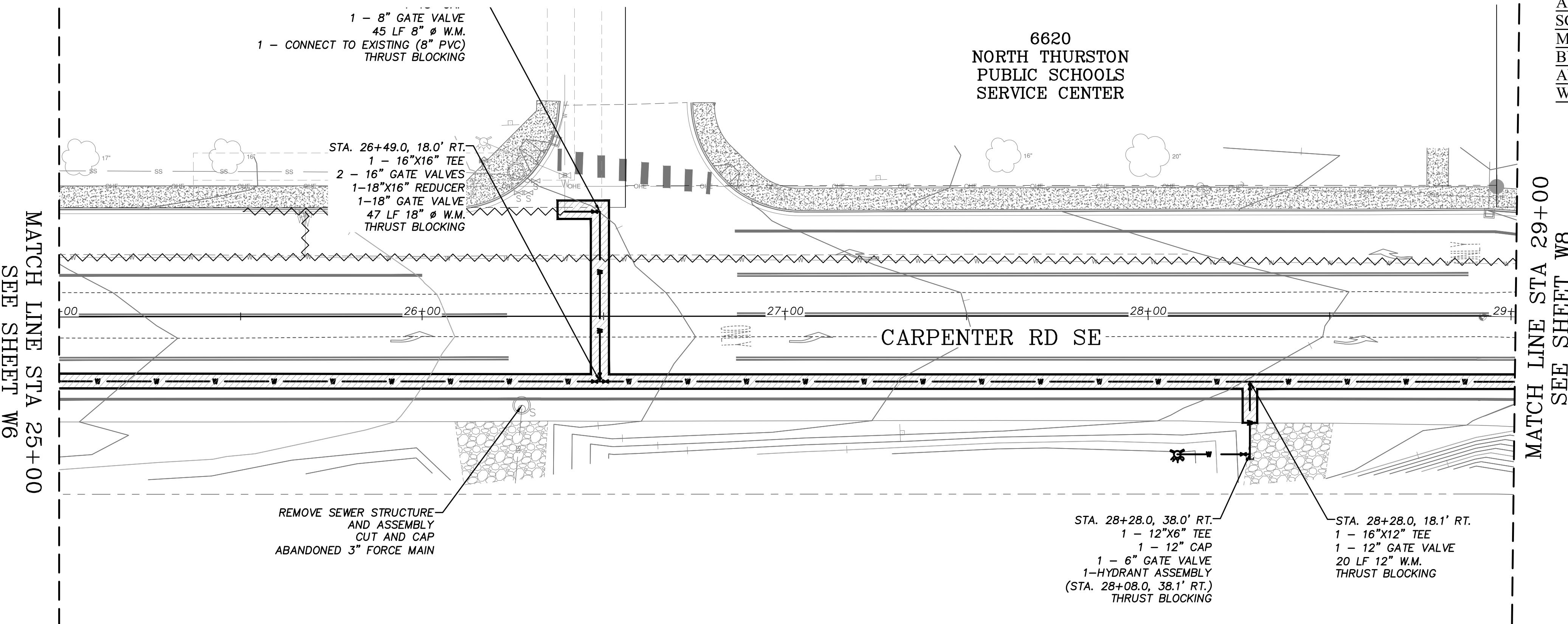


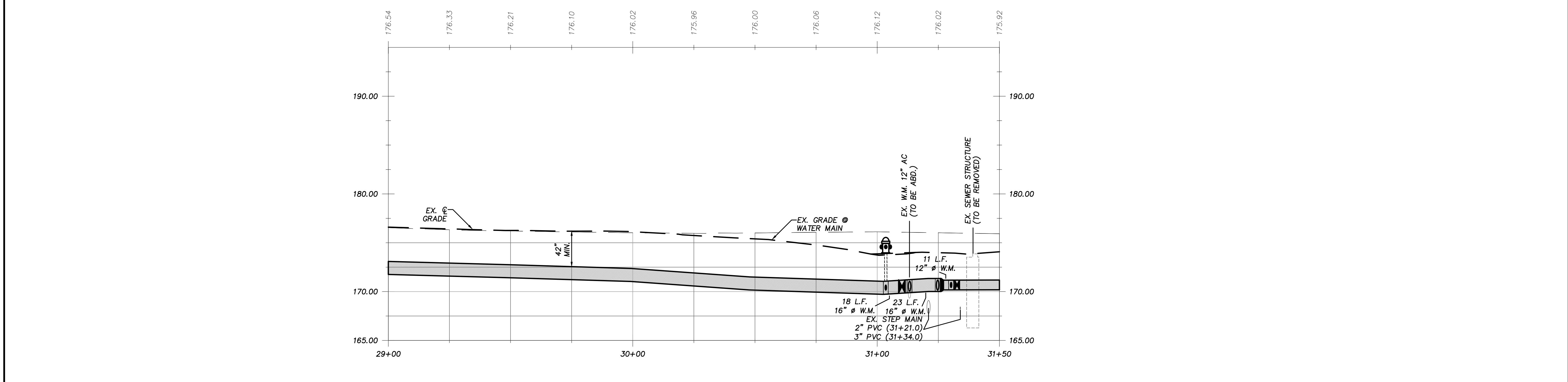
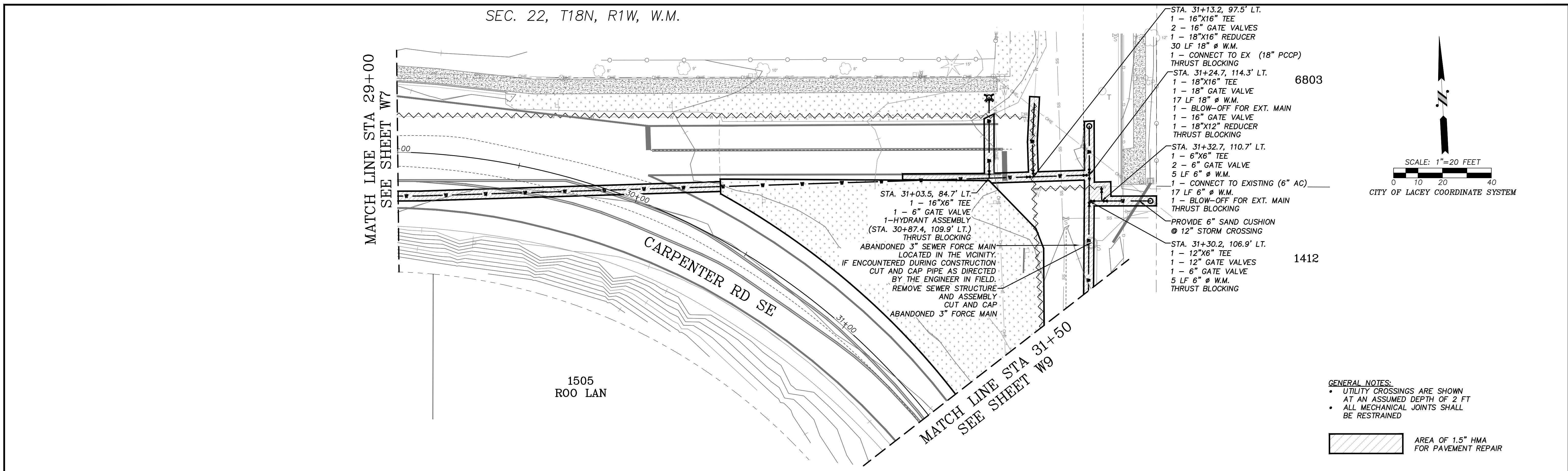
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CARPENTER RD IMPROVEMENTS
 WATER PLANS
 STA 21+00 TO STA 25+00

REVISION BLOCK			PAGE NO.	SHEET NO.
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SEC. 22, T18N, R1W, W.M.





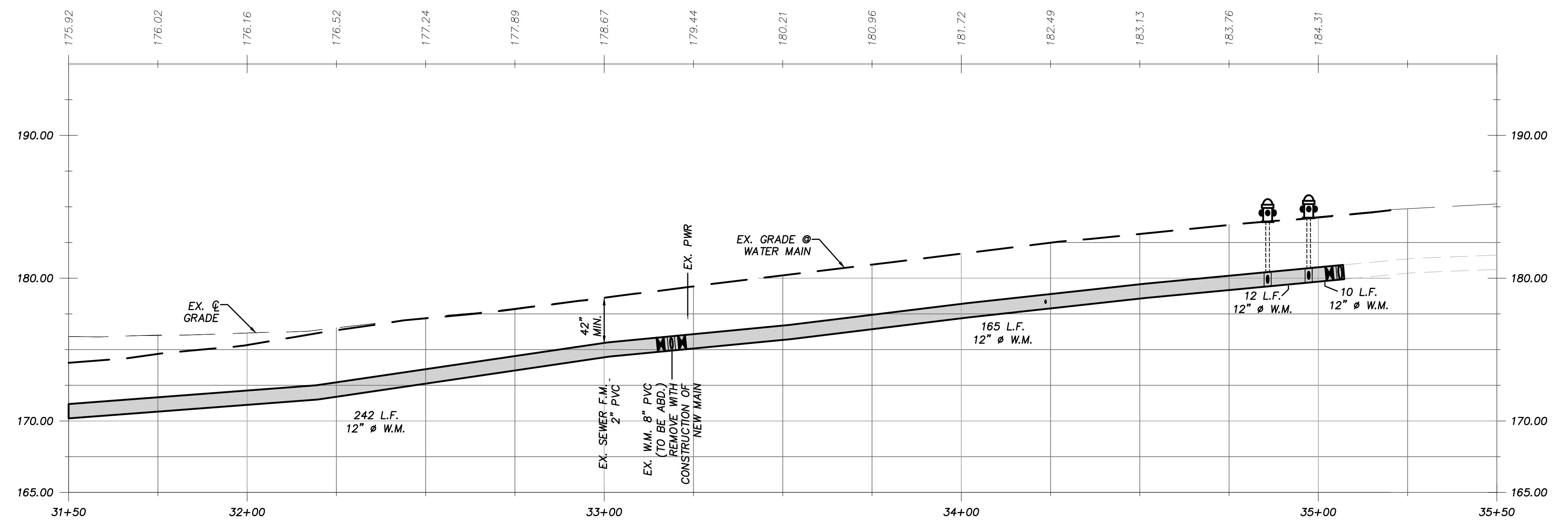
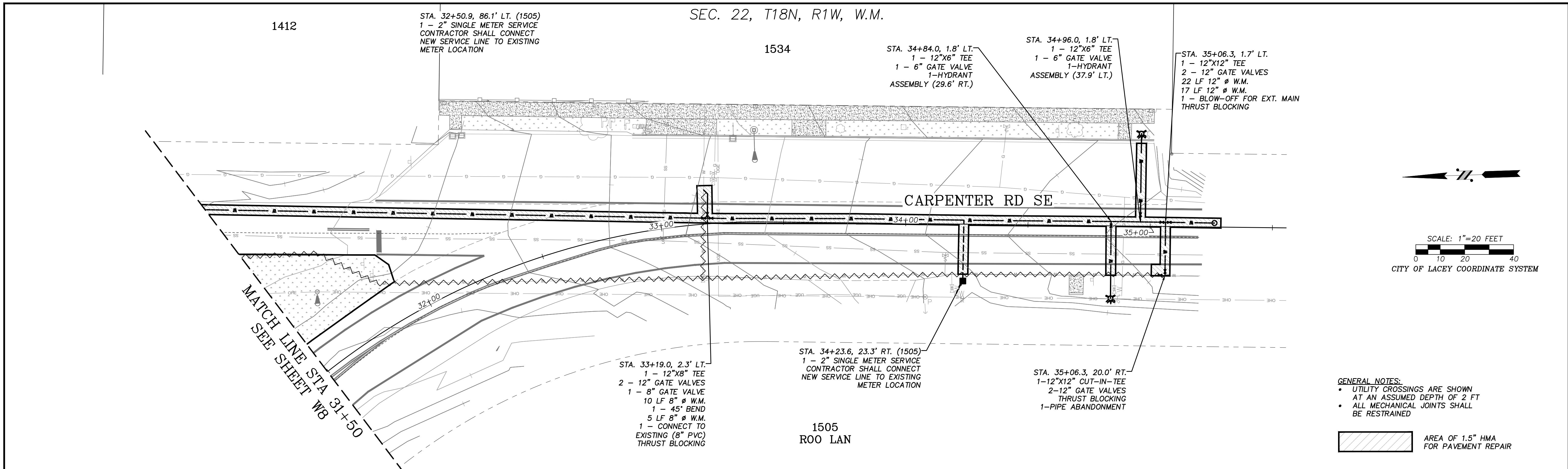
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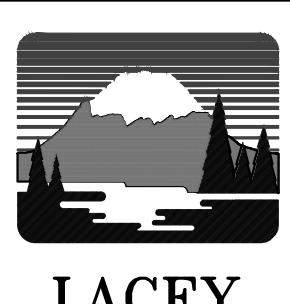
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CARPENTER RD IMPROVEMENTS
WATER PLANS
STA 29+00 TO STA 31+50

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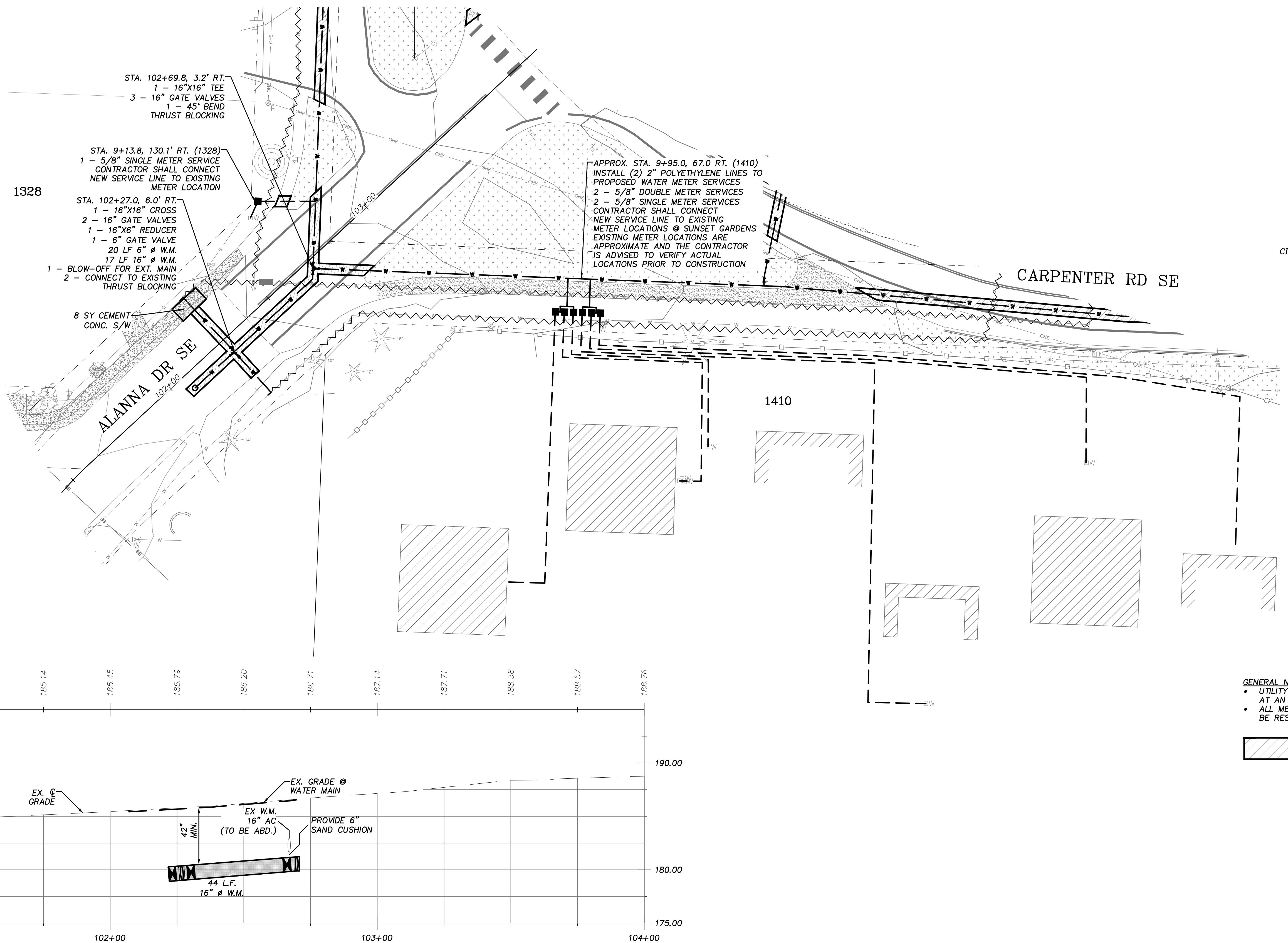


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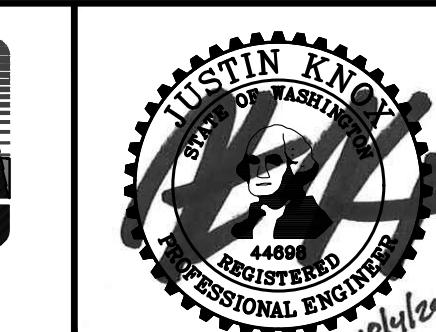
CARPENTER RD IMPROVEMENTS
WATER PLANS
STA 31+50 TO STA 35+50

REVISION BLOCK			PAGE NO.	SHEET NO.
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SEC. 22, T18N, R1W, W.M.



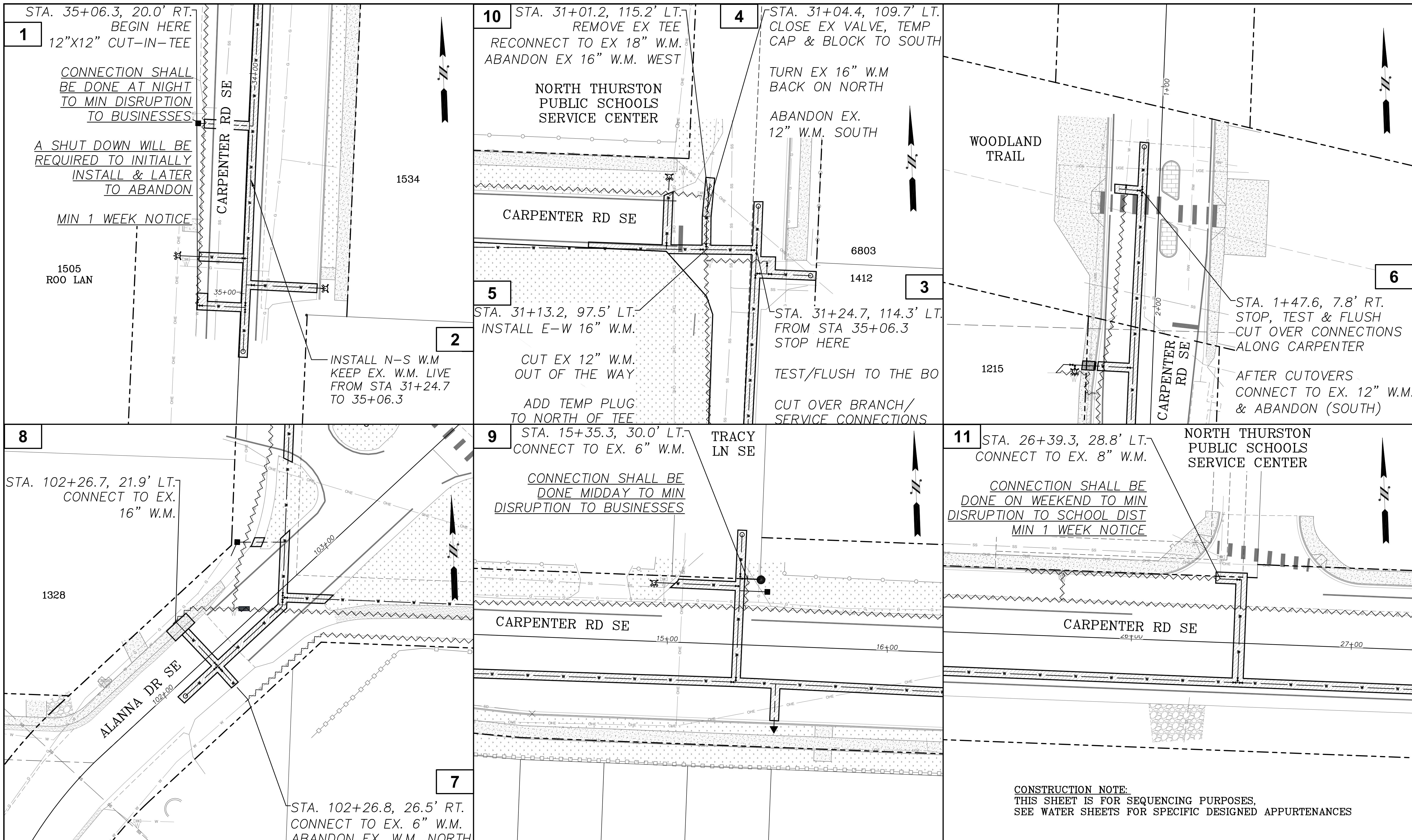
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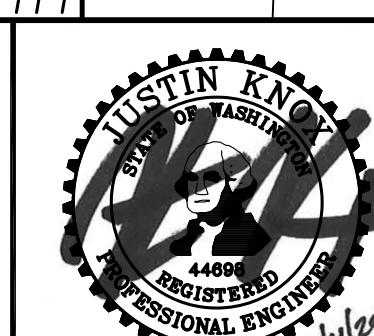
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CARPENTER RD IMPROVEMENTS
WATER PLANS
ALANNA DR

REVISION BLOCK			PAGE NO.	SHEET NO.
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LACEY

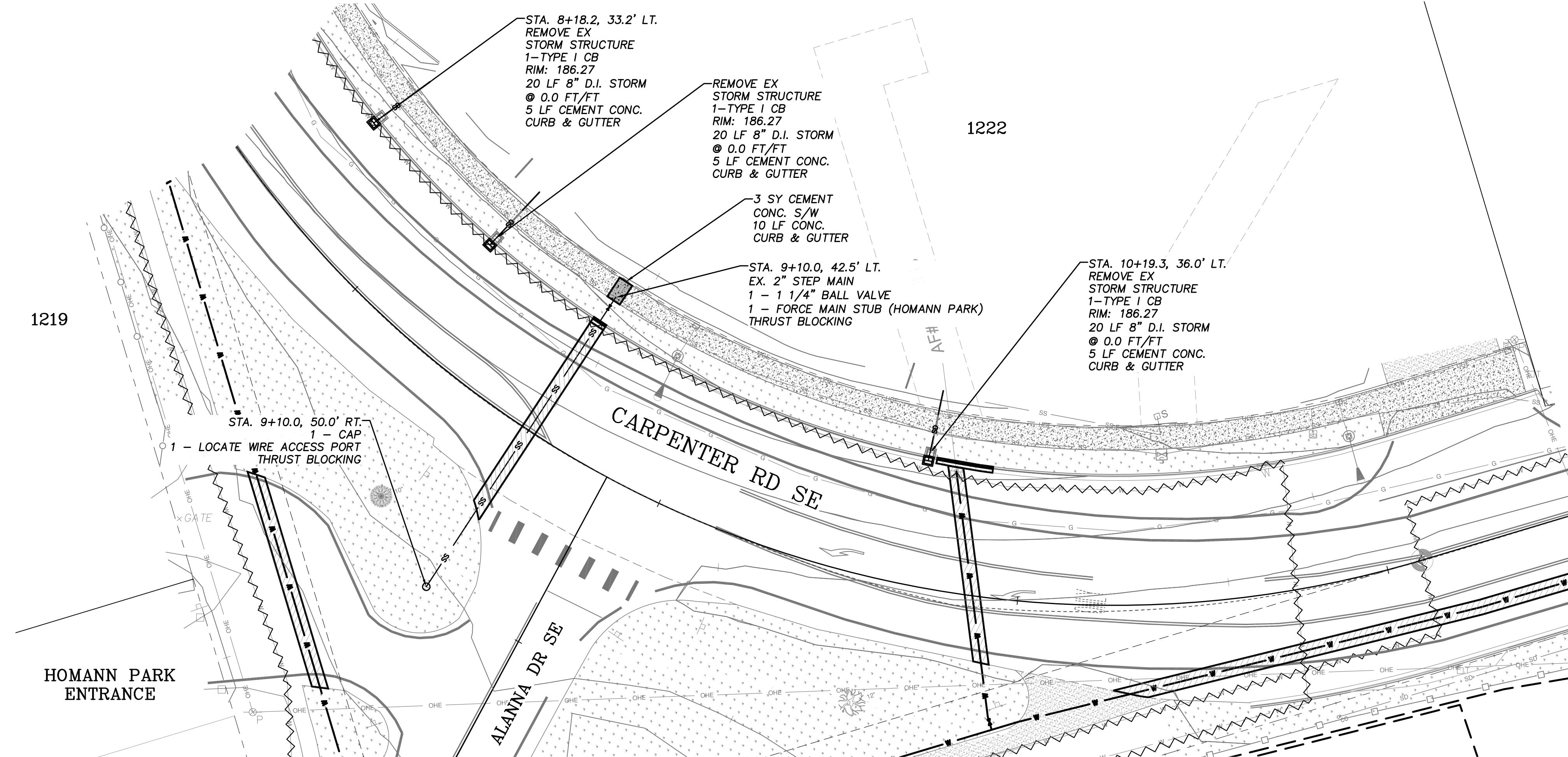


REGISTRATION NO. 44-0652

EXPIRED 10/12/2022

PROFESSIONAL ENGINEER

REVISION BLOCK			PAGE NO.	SHEET NO.
NO.	DATE	DESCRIPTION	W11	16 OF 25
DWG NO.			D-22-02	

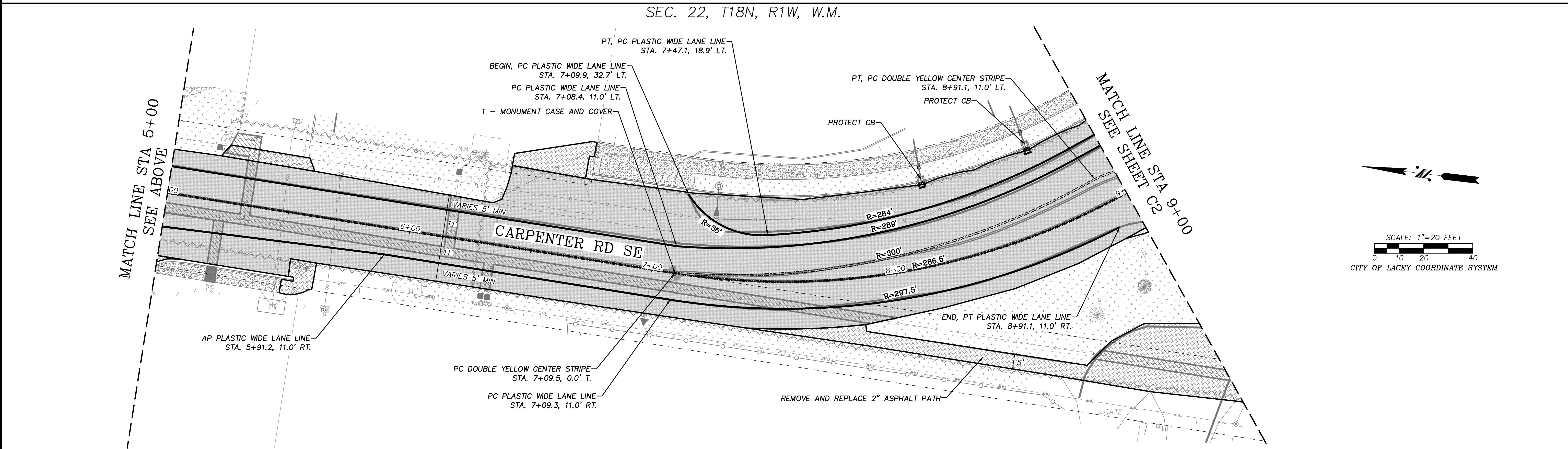
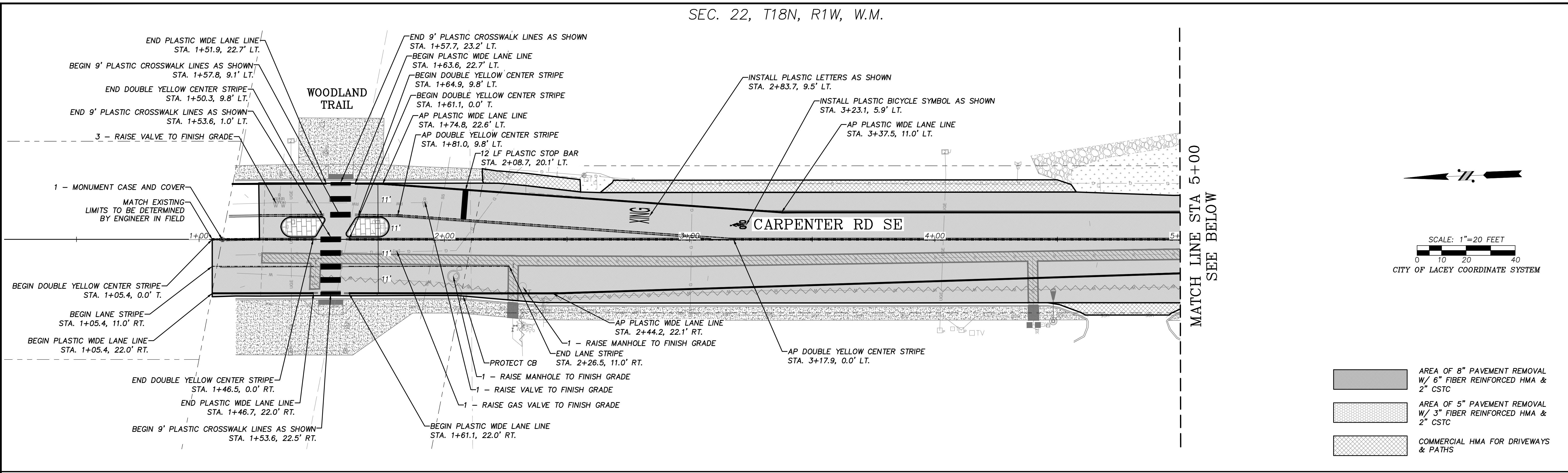


NOTES:

UTILITY CROSSINGS ARE SHOWN
AT AN ASSUMED DEPTH OF 2 FT.

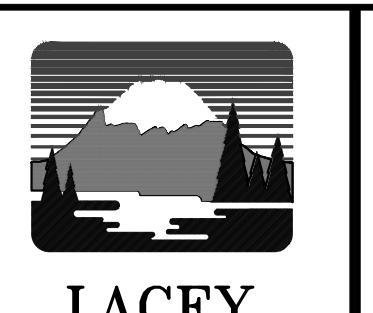
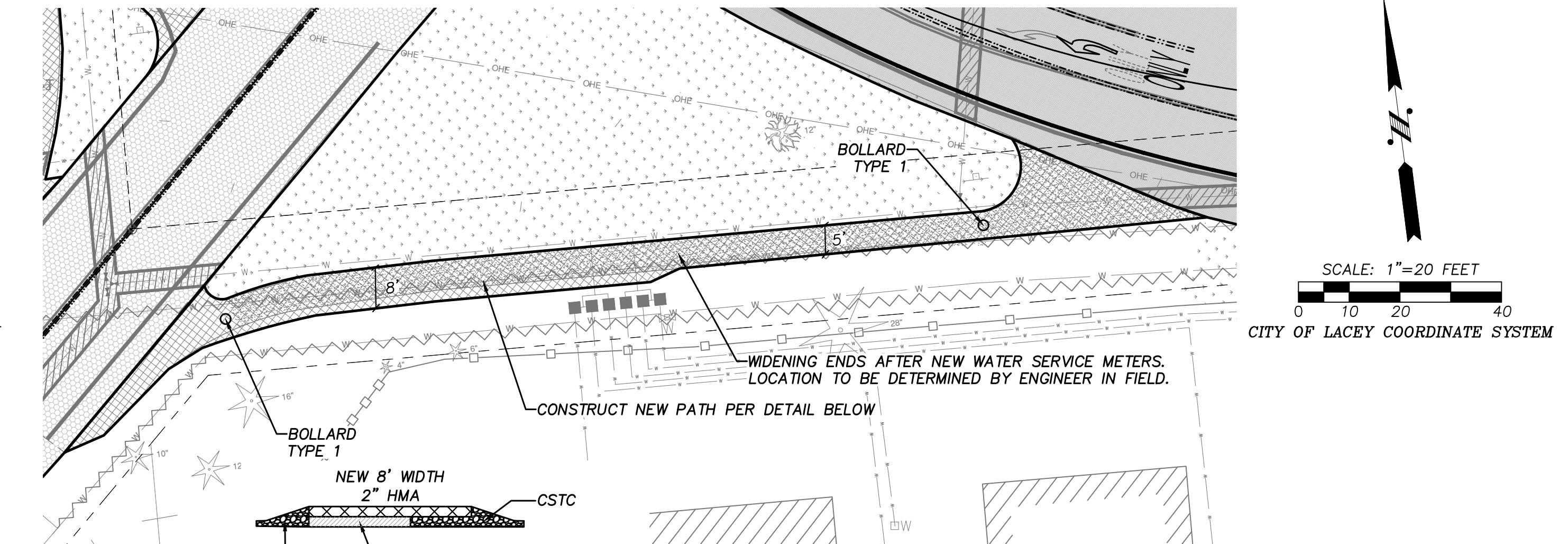
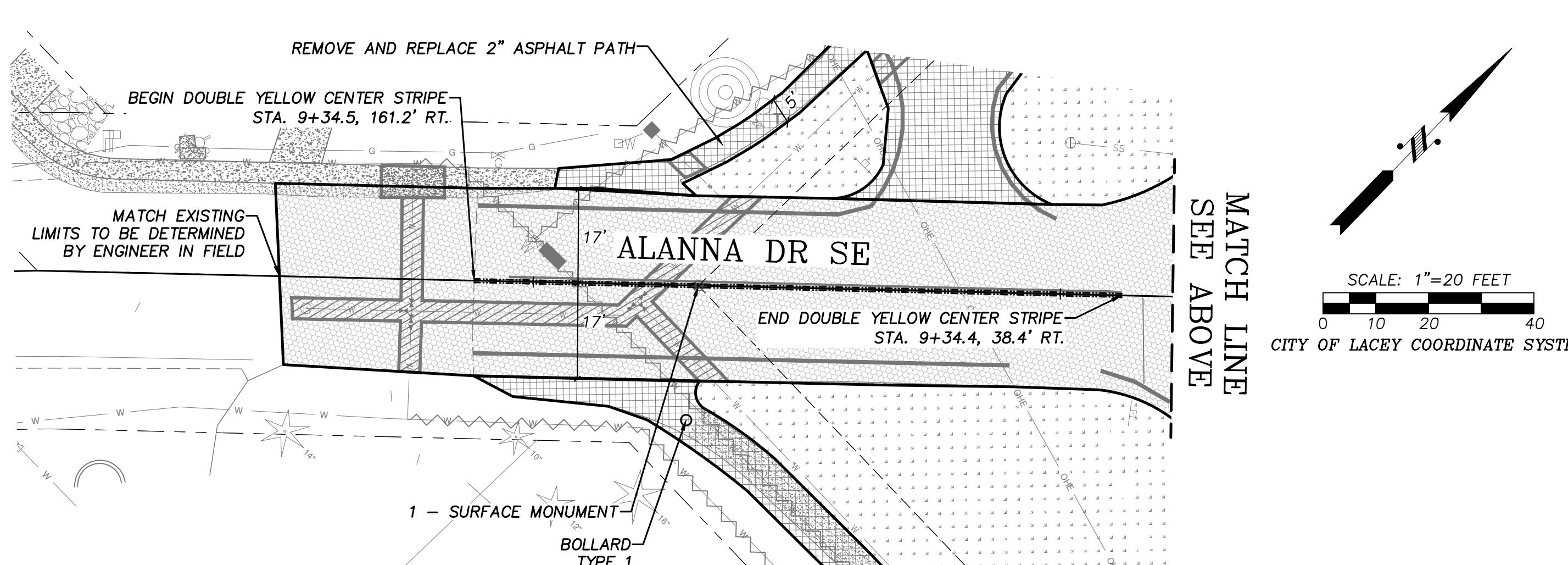
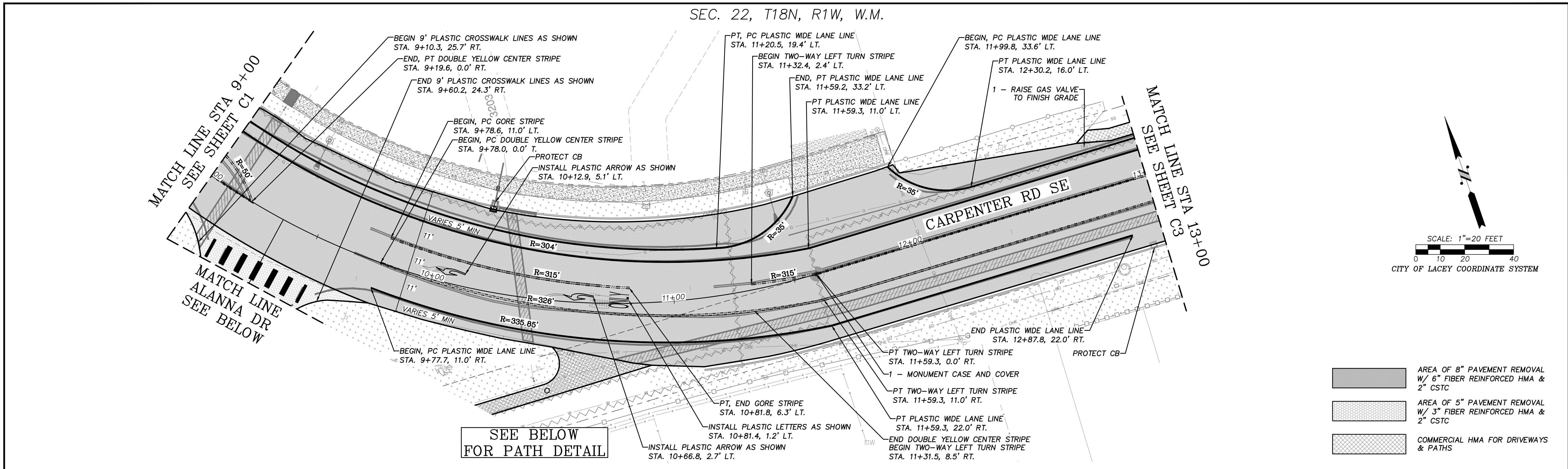


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NO.	DATE	DESCRIPTION	UT3	17
			DWG NO.	OF
			D-22-02	25



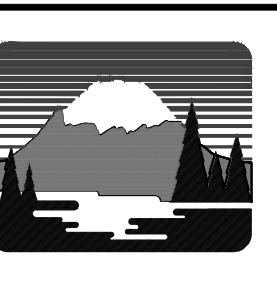
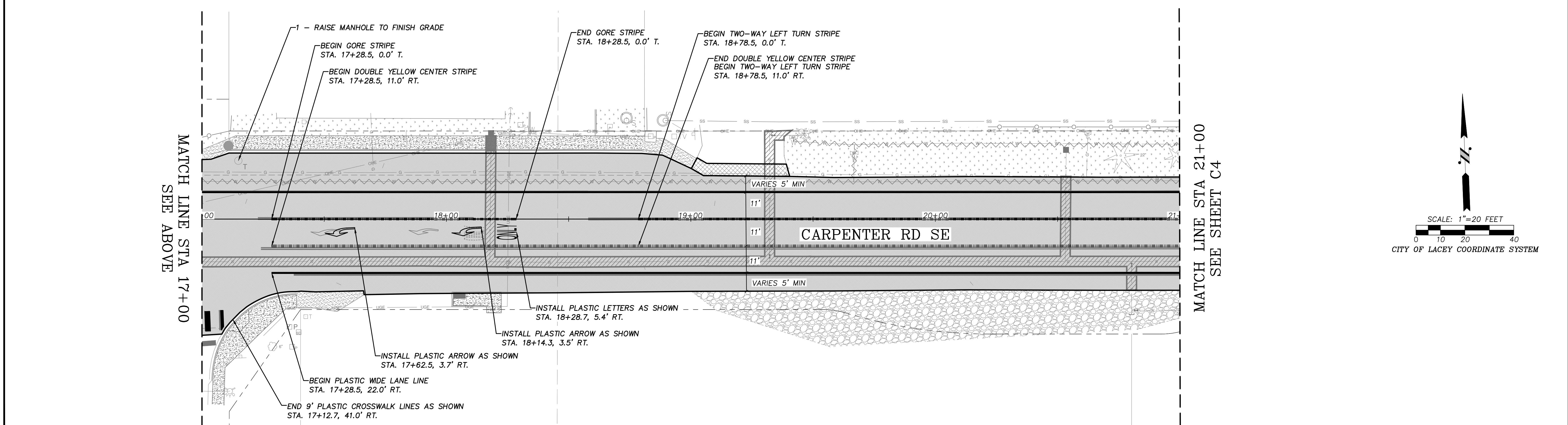
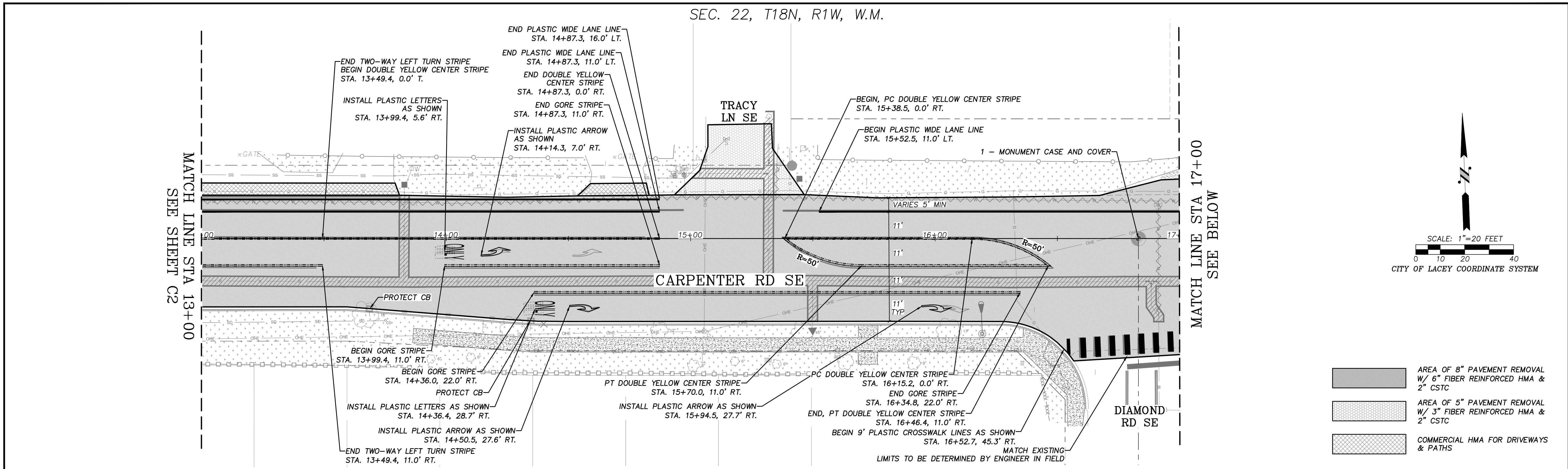
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NO.	DATE	DESCRIPTION
C1		
DWG NO.		

PAGE NO. 18 OF 25
SHEET NO. D-22-02



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

REVISION BLOCK			PAGE NO.	SHEET NO.
NO.	DATE	DESCRIPTION	C2	19
DWG NO.			D-22-02	OF 25



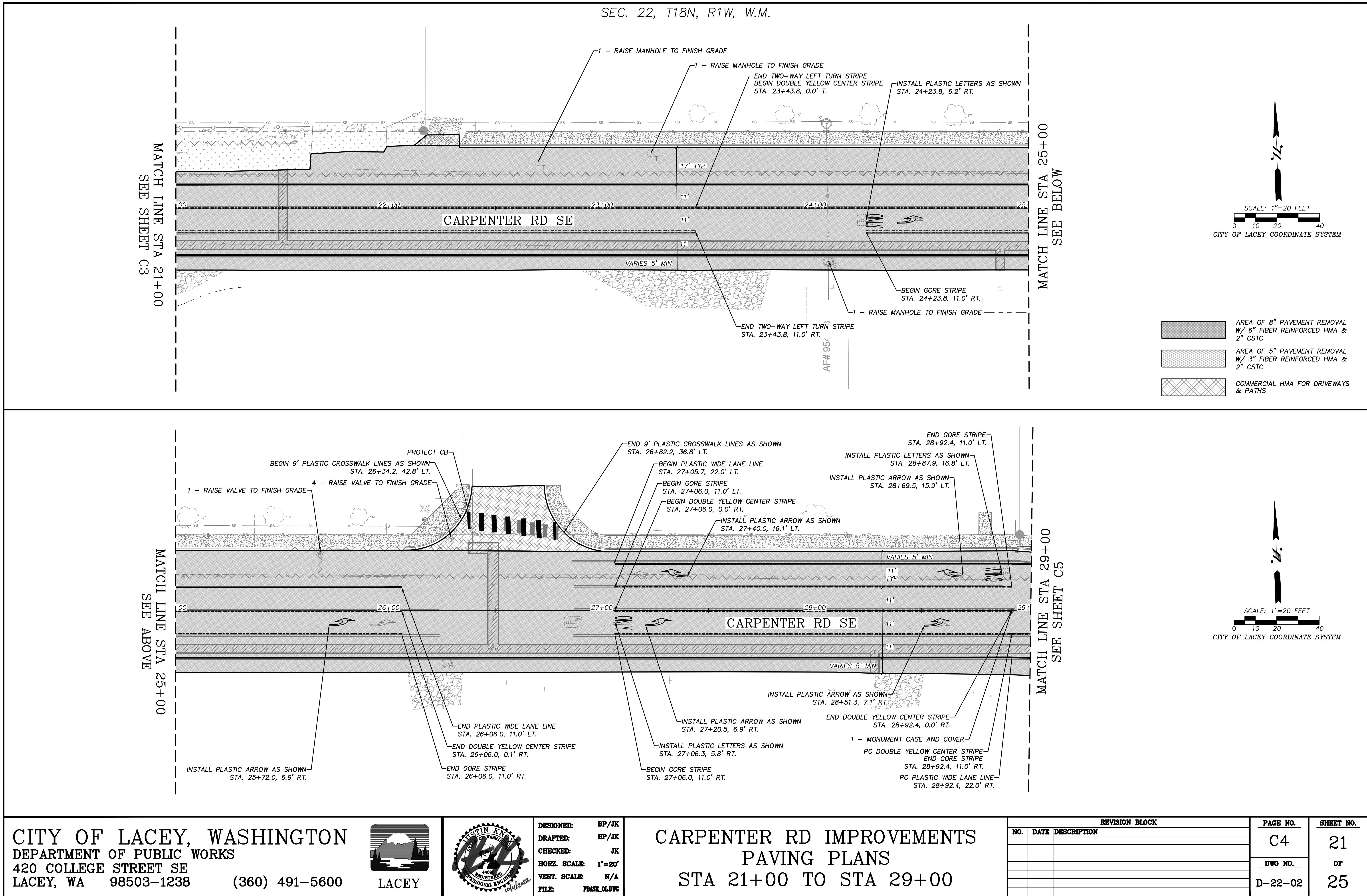
LACEY

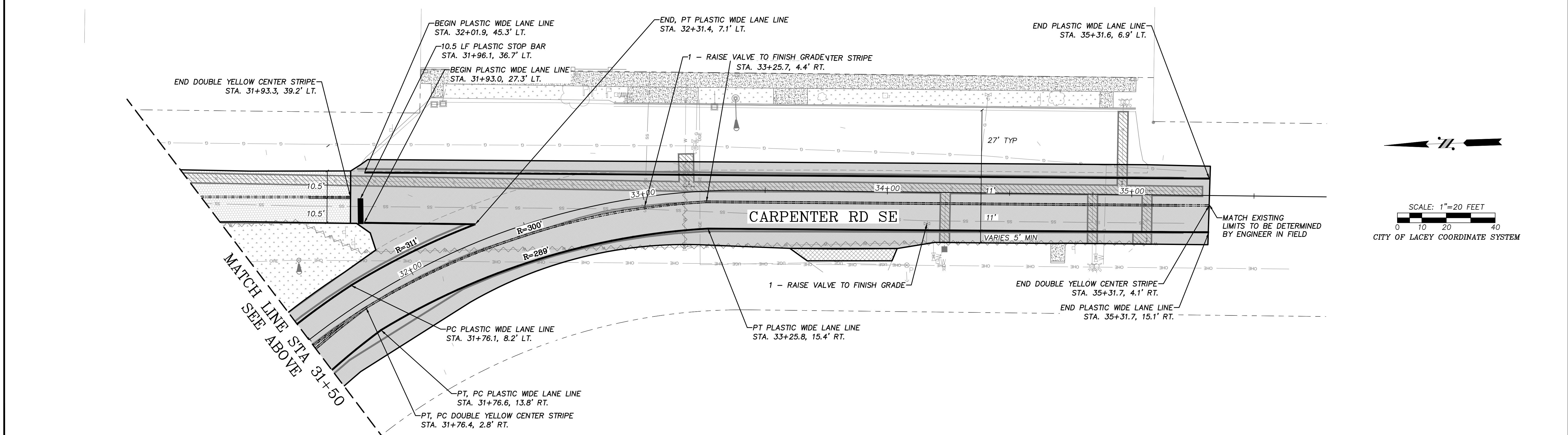
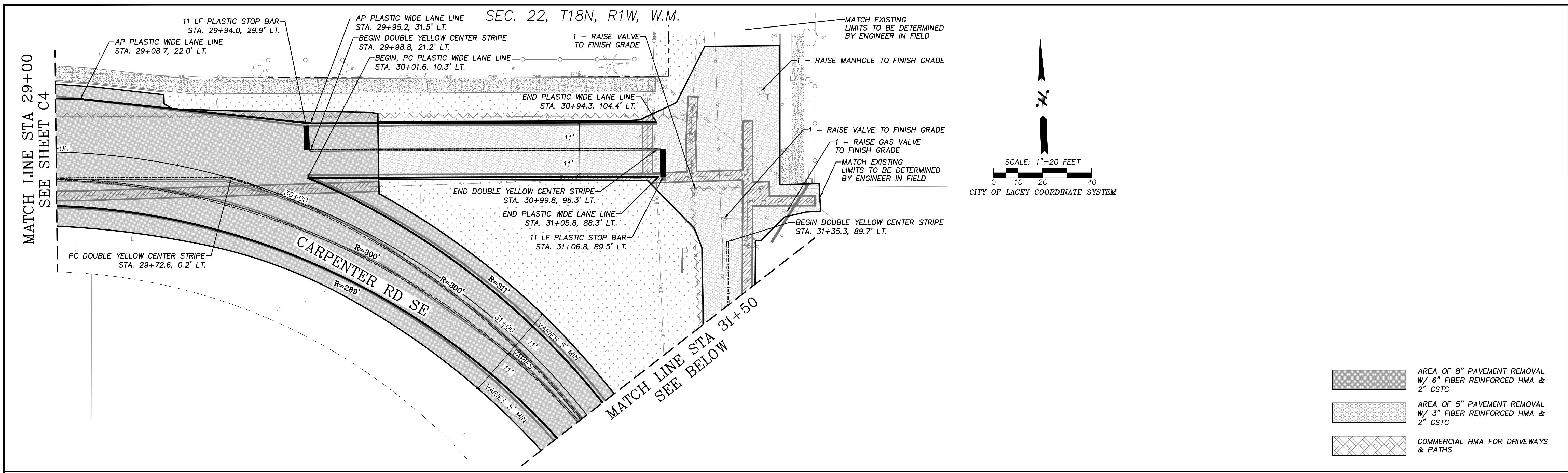


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REVISION BLOCK		
NO.	DATE	DESCRIPTION
C3		
DWG NO.		

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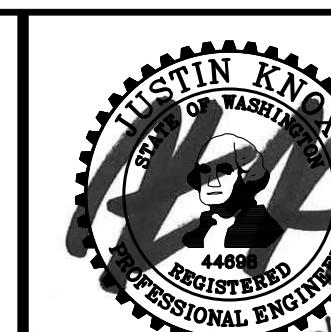




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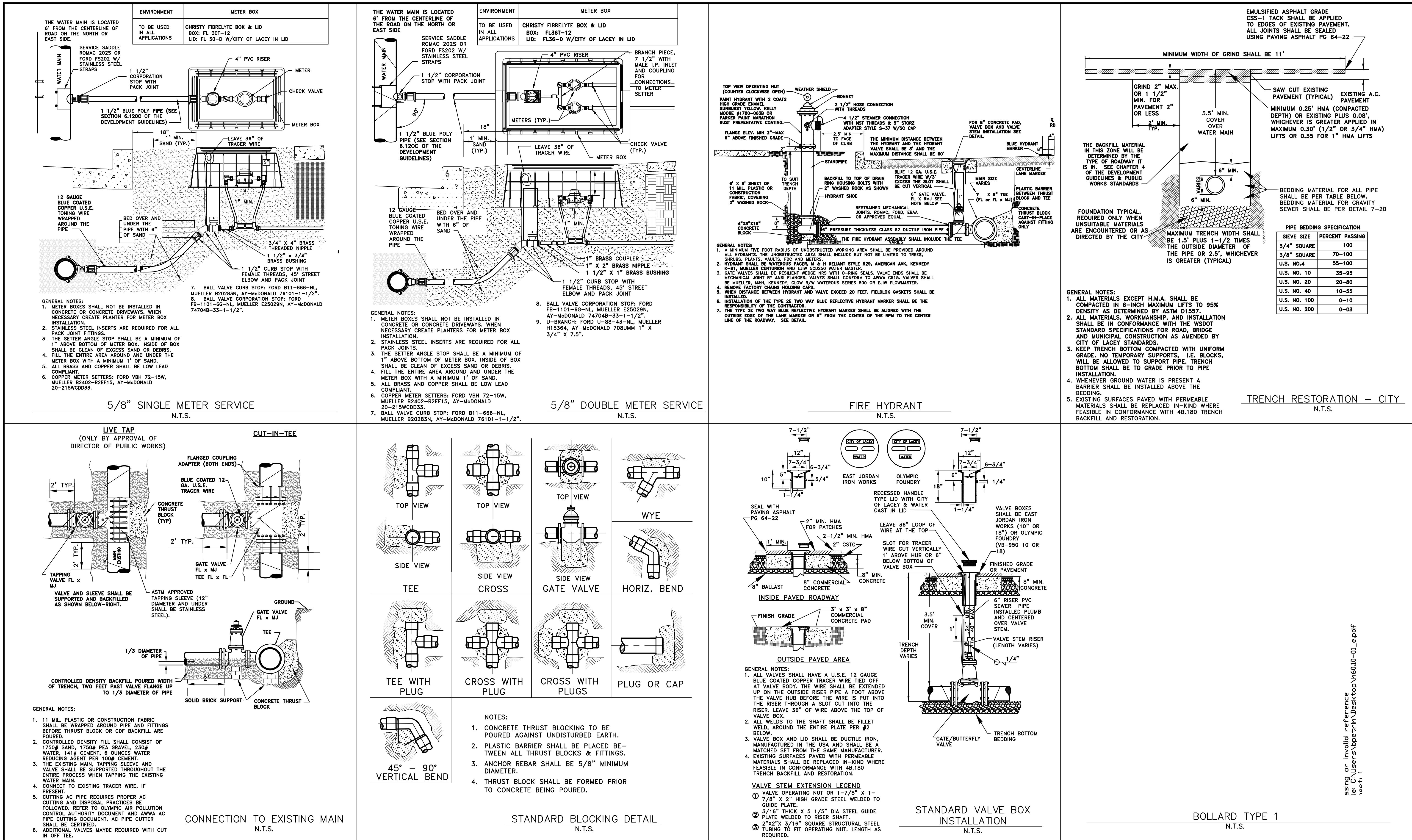
LACEY



DESIGNED: BP/JK
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CARPENTER RD IMPROVEMENTS
PAVING PLANS
STA 29+00 TO STA 35+50

REVISION BLOCK		
NO.	DATE	DESCRIPTION
		C5
		DWG NO.
		D-22-02
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		22
		OF
		25



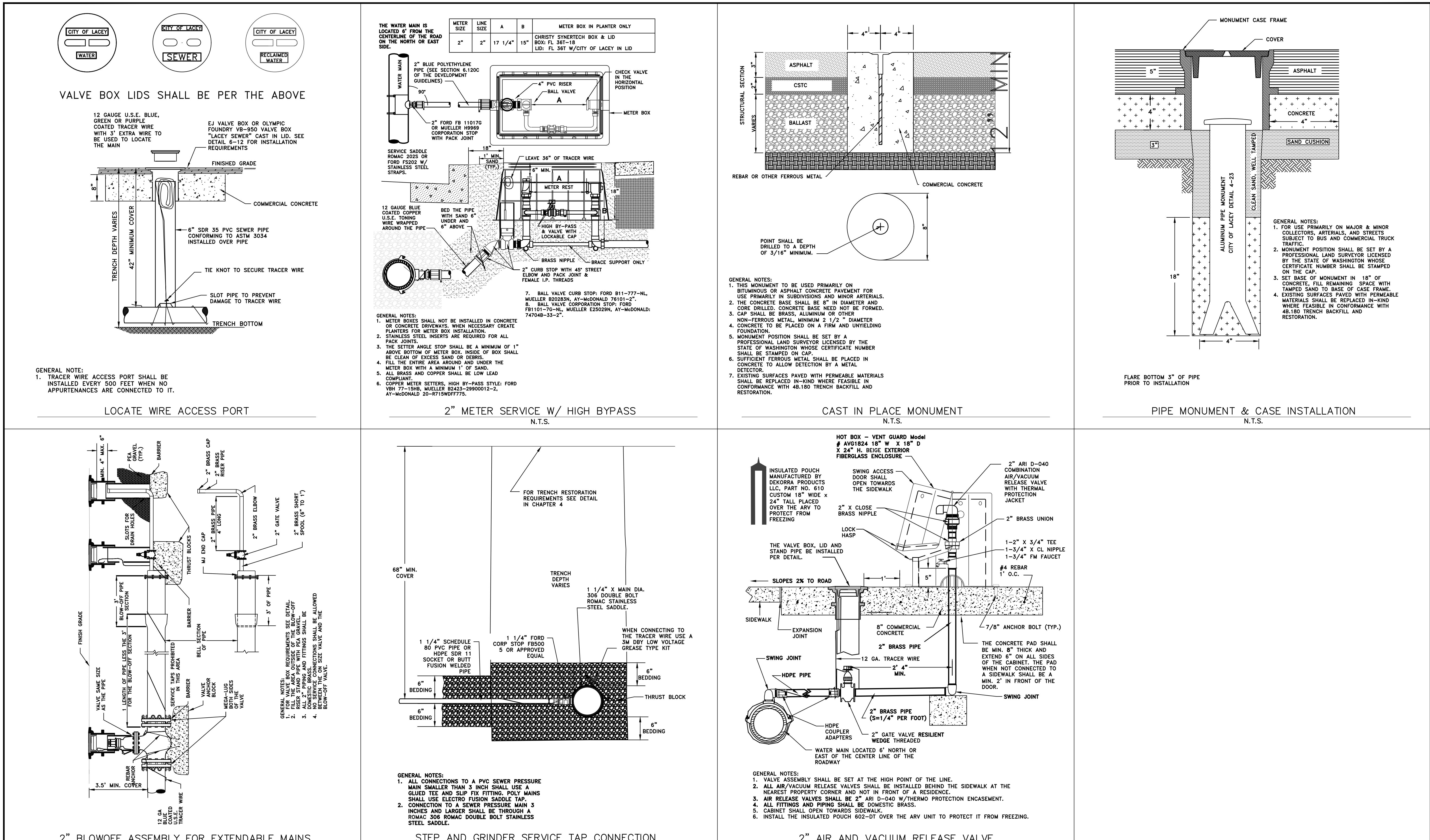
CITY OF LACEY, WASHINGTON
DEPARTMENT OF PUBLIC WORKS
420 COLLEGE STREET S.E. P.O. BOX 3400
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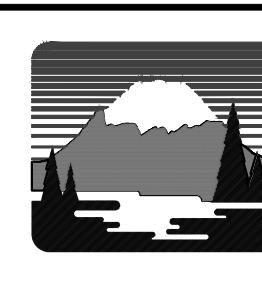
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FILE: DT

CARPENTER RD IMPROVEMENTS DETAILS

REVISION BLOCK		
NO.	DATE	DESCRIPTION
DT1		
DWG NO.		
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OF		
25		



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LACEY



AUSTIN K. JACSON

PROFESSIONAL ENGINEER

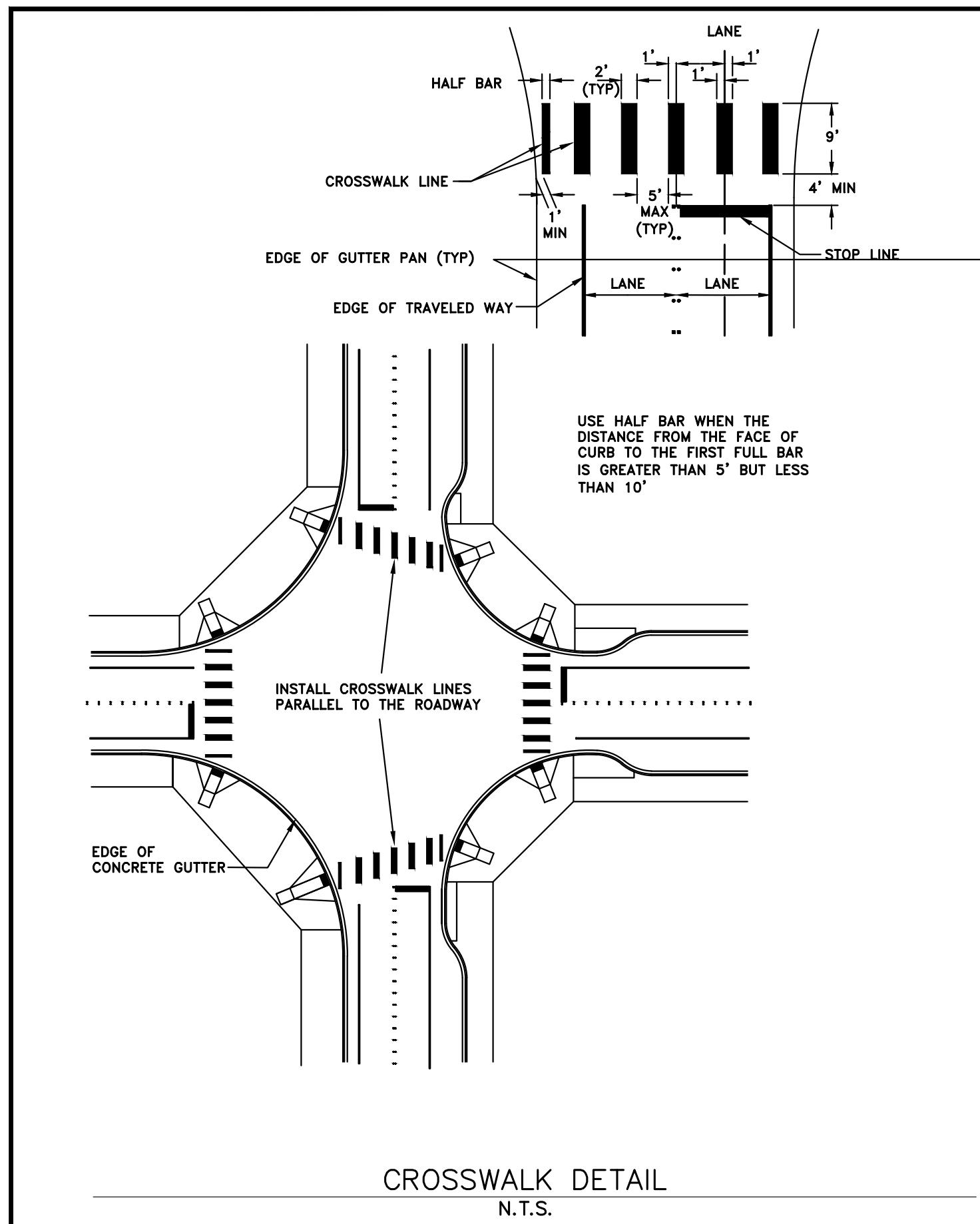
10/4/2022

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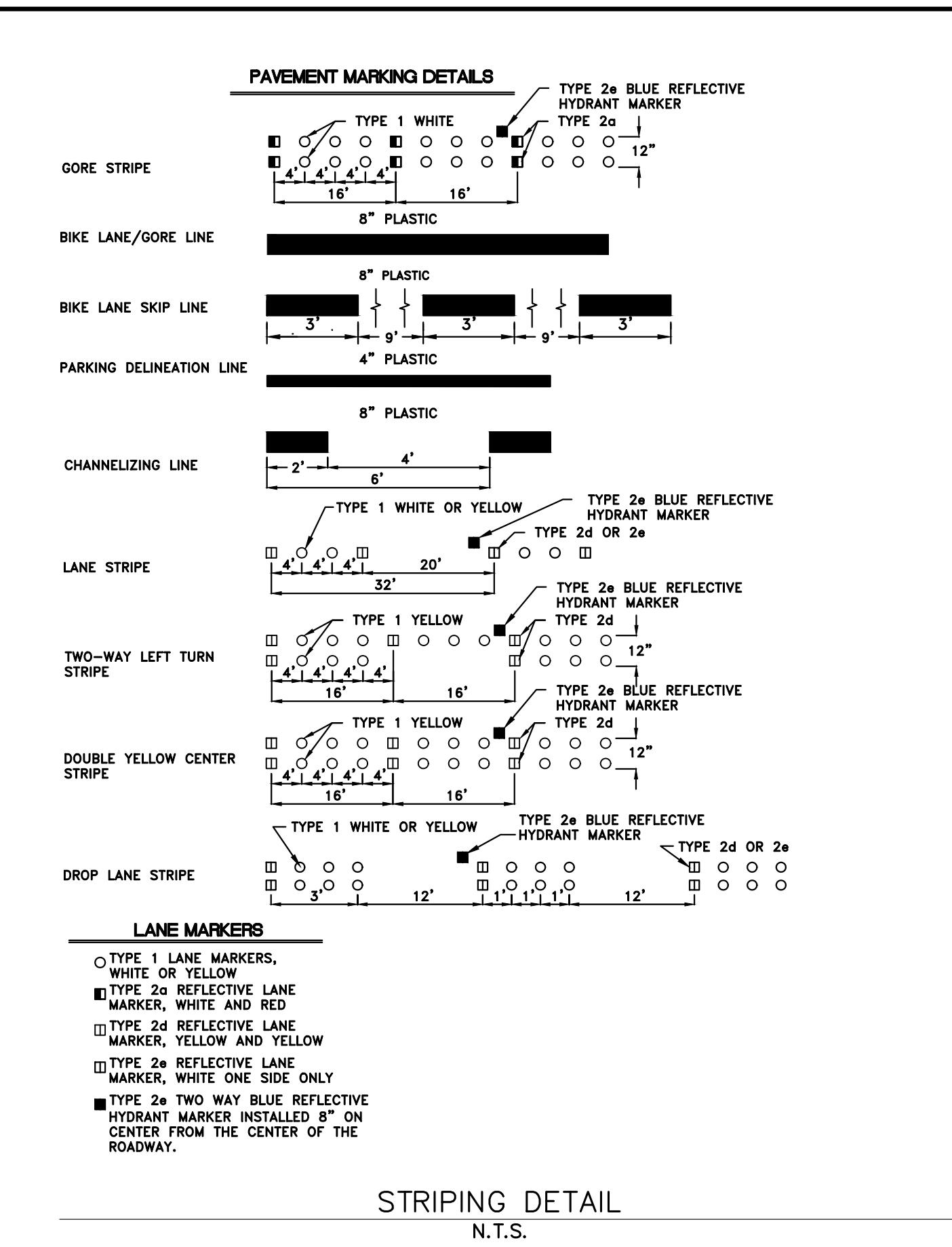
CARPENTER RD IMPROVEMENTS DETAILS

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DT2		
D-22-02		

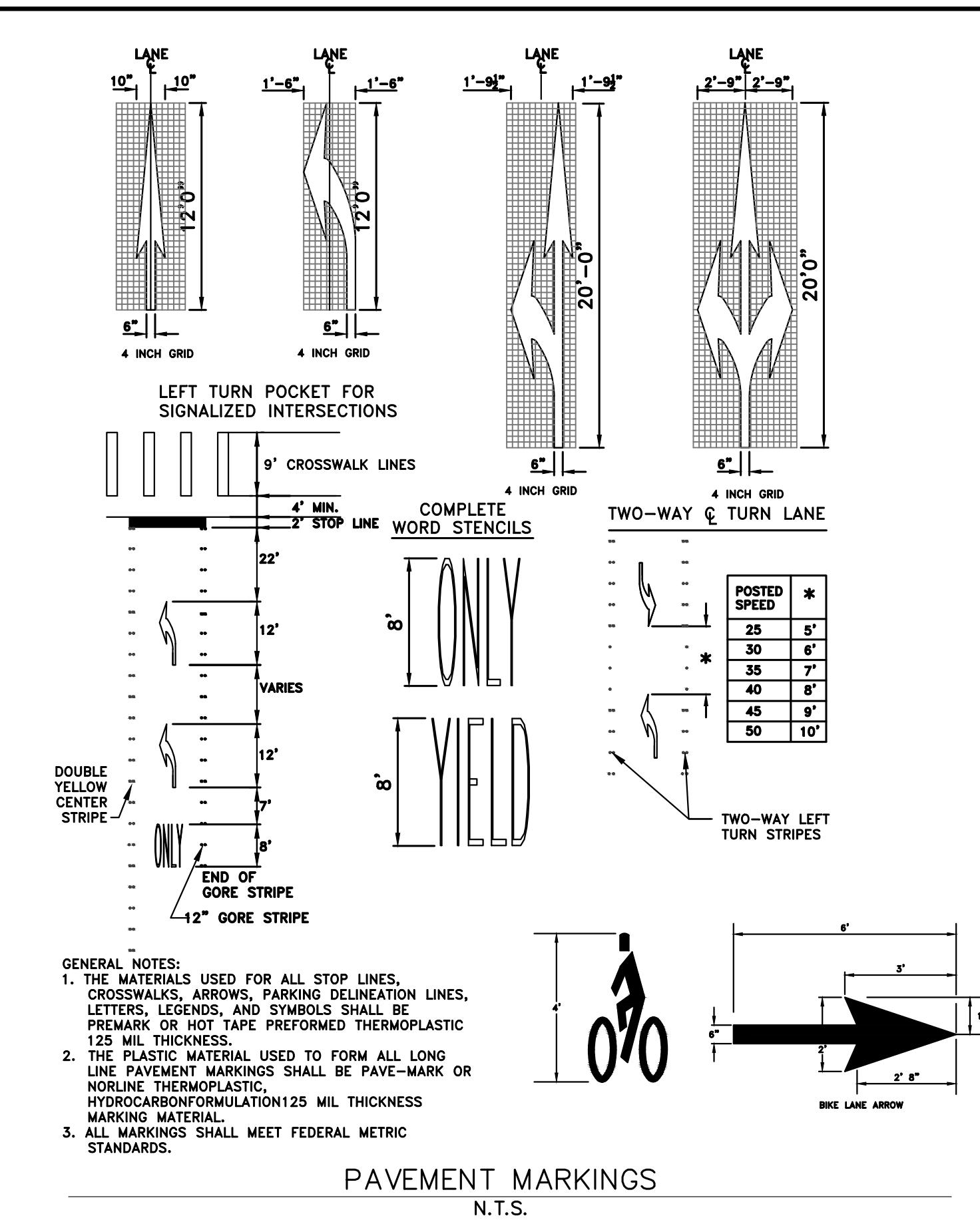
PAGE NO. 24 OF 25



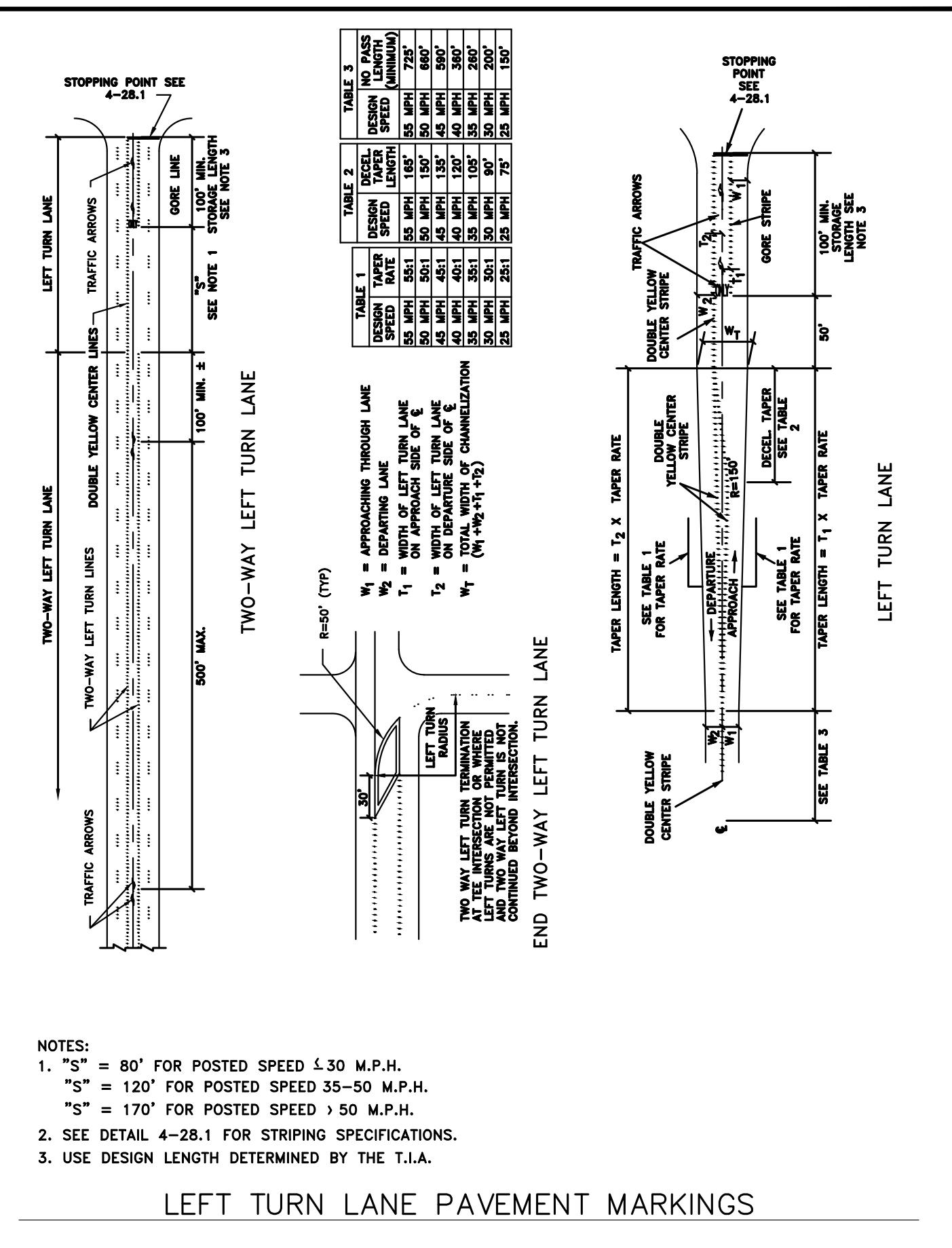
CROSSWALK DETAIL
N.T.S.



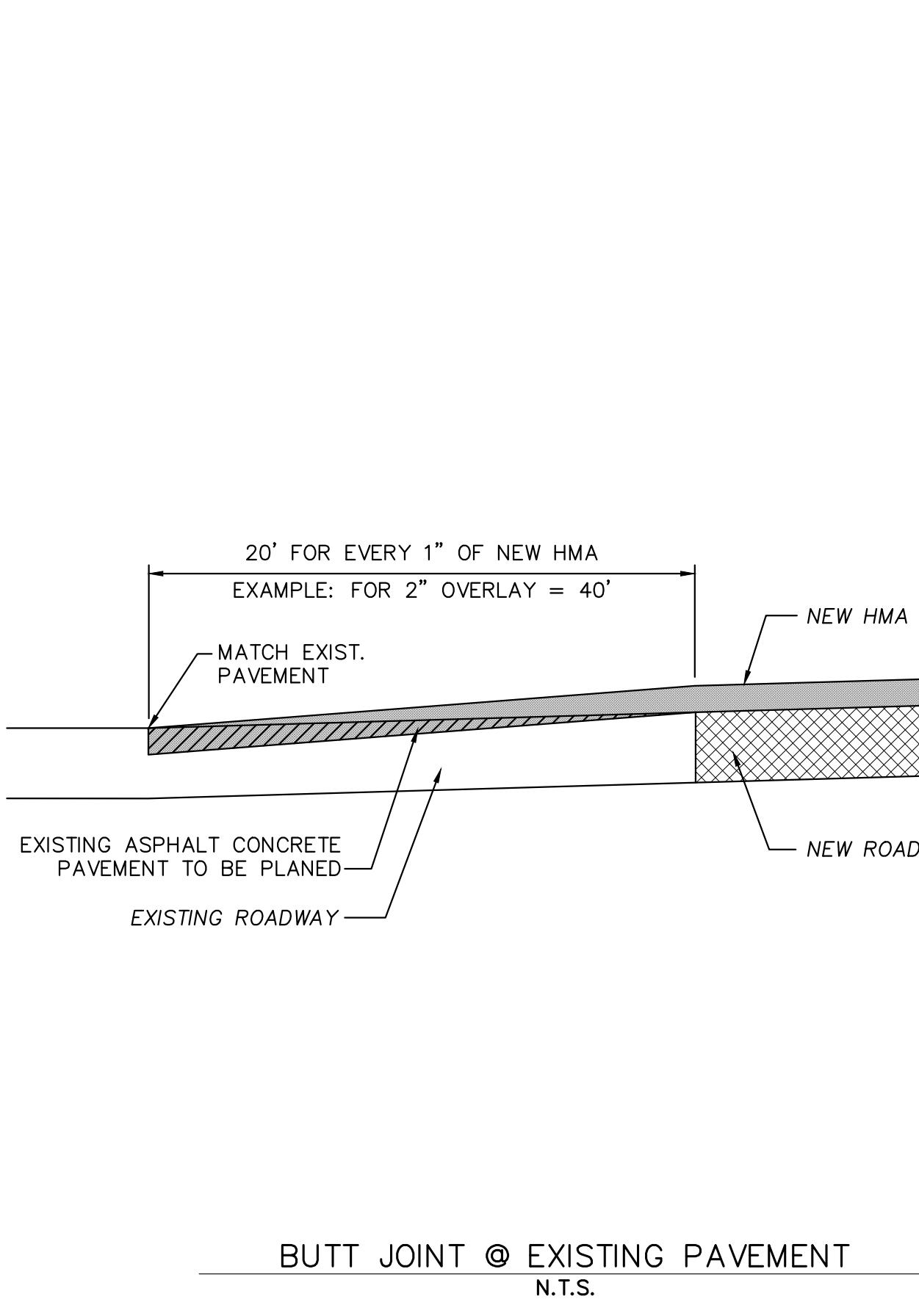
STRIPING DETAIL
N.T.S.



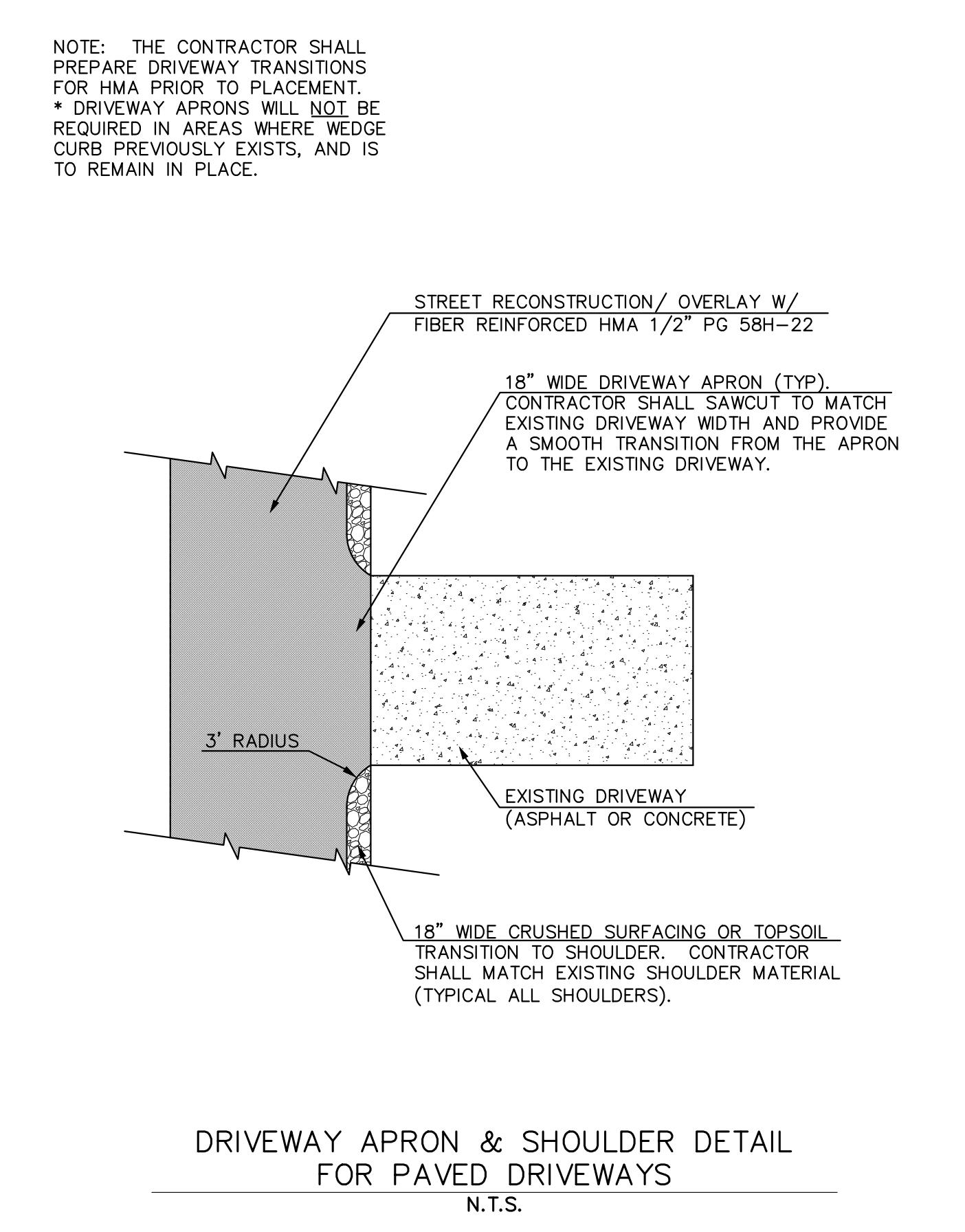
PAVEMENT MARKINGS
N.T.S.



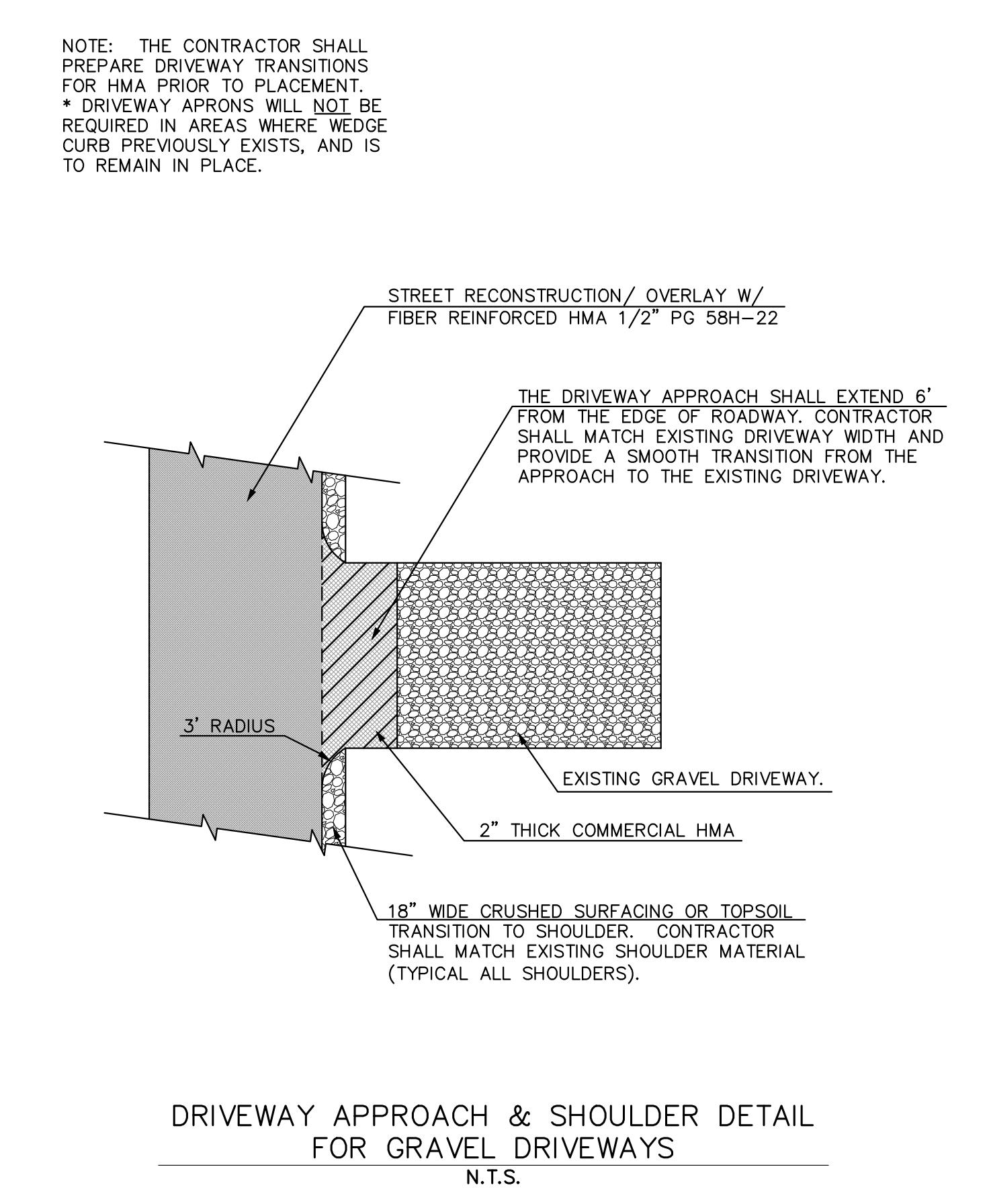
LEFT TURN LANE PAVEMENT MARKINGS



BUTT JOINT @ EXISTING PAVEMENT
N.T.S.



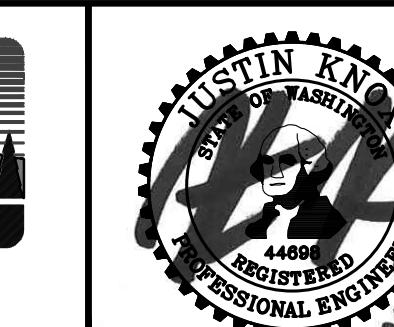
DRIVEWAY APRON & SHOULDER DETAIL
FOR PAVED DRIVEWAYS
N.T.S.



DRIVEWAY APPROACH & SHOULDER DETAIL
FOR GRAVEL DRIVEWAYS
N.T.S.

CEMENT CONC. TRAFFIC CURB AND GUTTER
N.T.S.

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

CARPENTER RD IMPROVEMENTS DETAILS

REVISION BLOCK		
NO.	DATE	DESCRIPTION
DT3		
DWG NO.		

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SHEET NO. 25 OF 25
DWG NO. D-22-02