

VICINITY MAP
CITY OF LACEY, WASHINGTON
SCALE : 1" = 500'



- LACEY CITY LIMITS
- OLYMPIA CITY LIMITS
- URBAN GROWTH AREA



ULID 25 TOLMIE SEWER AND WATER IMPROVEMENTS

LACEY CONTRACT # PW 2024-05
SECTION 03, T18N, R1W, W.M.
SECTION 34, T19N, R1W, W.M.

LACEY CITY OFFICIALS

MAYOR: Andy Ryder
DEPUTY MAYOR: Malcolm Miller
CITY COUNCIL: Lenny Greenstein
Michael Steadman
Carolyn Cox
Robin Vazquez
Nicolas Dunning
CITY MANAGER: Rick Walk
CITY ATTORNEY: David S. Schneider
CITY ENGINEER: Aubrey Collier, P.E.
DIRECTOR OF PUBLIC WORKS: 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
4-10	S1-S7	SEWER SHEETS
11-15	W1-W5	WATER SHEETS
16-18	DT1-DT3	DETAIL SHEETS

02/14/2024

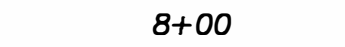



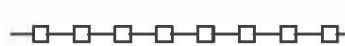
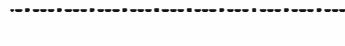
























Aubrey Collier for PW Director
City Engineer

Lacey Dwg. Number :
D-24-02



BLOCK LEGEND:

SURVEY MONUMENT	
CATCH BASIN TYPE 1	
STORM MANHOLE & CB TYPE 2	
FIRE HYDRANT	
AIR & VACUUM RELEASE VALVE	
WATER METER	
WATER VALVE	
REDUCER	
SPRINKLER HEAD	
SEWER MANHOLE	
SANITARY SEWER CLEAN OUT	
GAS VALVE	
SIGN	
POLE ANCHOR	
POWER TRANSFORMER	
POWER POLE	
POWER VAULT	
TRAFFIC LOOP	
TRAFFIC SIGNAL	
STANDARD TRAFFIC SIGNAL CONTROLLER	
STREET LIGHT	
JUNCTION BOX	
ELECTRICAL SERVICE	
CABLE TV PEDESTAL	
TELEPHONE MANHOLE	
TELEPHONE PEDESTAL	
TREE GRATE	
CONIFER TREE	
DECIDUOUS TREE	
COMMERCIAL SIGN	




LINETYPE LEGEND:

	CONSTRUCTION BASELINE
	EASEMENT
	ROAD CENTERLINE
	BARB WIRE FENCE
	CHAIN LINK FENCE
	CONCRETE FENCE
	ROCK FENCE
	WIRE FENCE
	WOOD FENCE
	GRAVEL
	TOE OF SLOPE
	TOP OF SLOPE
	DITCH
	STORM (PAINTED)
	SEWER (PAINTED)
	NEW SEWER
	RIGHT OF WAY
	OVERHEAD CABLE
	UNDERGROUND CABLE (PAINTED)
	GAS (PAINTED)
	OVERHEAD PHONE
	OVERHEAD FIBER OPTIC
	UNDERGROUND PHONE (PAINTED)
	UNDERGROUND FIBER OPTIC (PAINTED)
	OVERHEAD ELECTRIC
	UNDERGROUND ELECTRIC (PAINTED)
	WATER (PAINTED)
	NEW WATER
	RECLAIMED WATER (PAINTED)
	ABANDON EXISTING UTILITY (SEE PLAN)

CONSTRUCTION HATCH TYPES:

	PULVERIZED & 2" HMA OVERLAY
	PAVEMENT REPAIR

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	CB	CATCH BASIN	C.Y.	CUBIC YARD
P.C.	POINT OF CURVATURE	N/A	NOT APPLICABLE	TYP.	TYPICAL
P.I.	POINT OF INTERSECTION	A/C	ASPHALT CONCRETE	LUM.	LUMINAIRE
P.T.	POINT OF TANGENCY	ACP	ASPHALT CONCRETE PAVEMENT	L.F.	LINEAR FEET
R.	RADIUS	D.I.	DUCTILE IRON	RD.	ROAD
R.P.	RADIUS POINT	SD	STORM DRAIN	DR.	DRIVE
R/W	RIGHT-OF-WAY	SS	SANITARY SEWER	PKWY.	PARKWAY
ROW	RIGHT-OF-WAY	RPBA	REDUCED PRESSURE BACKFLOW ASSEMBLY	CONST.	CONSTRUCTION
EX.	EXISTING	DIA, 	DIAMETER	FT.	FOOT
EXIST.	EXISTING	A.P.	ANGLE POINT	D/W	DRIVEWAY
STA	STATION	V.P.I.	VERTICAL POINT OF INTERSECTION	APPROX.	APPROXIMATELY

CONSTRUCTION NOTES:

- CALL 48 HOURS BEFORE YOU DIG 1-800-424-5555 OR 811.
- THE CONTRACTOR SHALL FIELD VERIFY UTILITY LOCATIONS PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL NOT REMOVE ANY TREES UNLESS INDICATED ON PLANS OR DIRECTED BY ENGINEER.
- THE CONTRACTOR SHALL MATCH OVERLAY TO EXISTING PAVEMENT AND DRIVEWAYS AS DIRECTED BY THE ENGINEER.
- GRINDING LIMITS AND PAVEMENT REPAIR LIMITS SHALL BE IDENTIFIED BY THE ENGINEER IN THE FIELD AND MAY VARY FROM THOSE SHOWN ON THE PLANS.
- THE CONTRACTOR SHALL RESTORE ALL LANDSCAPING TO EQUAL OR BETTER THAN ORIGINAL CONDITIONS AS DIRECTED BY THE ENGINEER.
- 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.

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.

BOUNDARY

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

SURVEYS REFERENCED
AF#3008713, 3831730, 4107375, 4564824

SHORT SUB REFERENCED
AF#1124657, 1133530, 8410030104

BLA REFERENCED
AF#9212080017

PLATS REFERENCED
AF#1090239, 1115378, 3827484, 4252759,

SOURCE OF UTILITY MARKINGS

SURFACE MARKINGS PROVIDED BY UTILITY NOTIFICATION CENTER (CALLBEFOREYOU.DIG.ORG) TICKET #22261985, 22261995, 22265701, 22265708, 22270365, 22270372, 22283737, 22283752, 22307298, 22307308, 22317258, 22352113, 22352127, 22409036, 22409053, 22409070, 22420227, 22420309 "UTILITY LOCATES MARKED BY COBBFENDLEY"

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.

BENCHMARK

CITY OF LACEY BM#1348
SURFACE MONUMENT AT THE INTERSECTION OF 32ND AVE NE & EAGLE DR NE/RAPTOR DR NE
ELEV.=19984

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

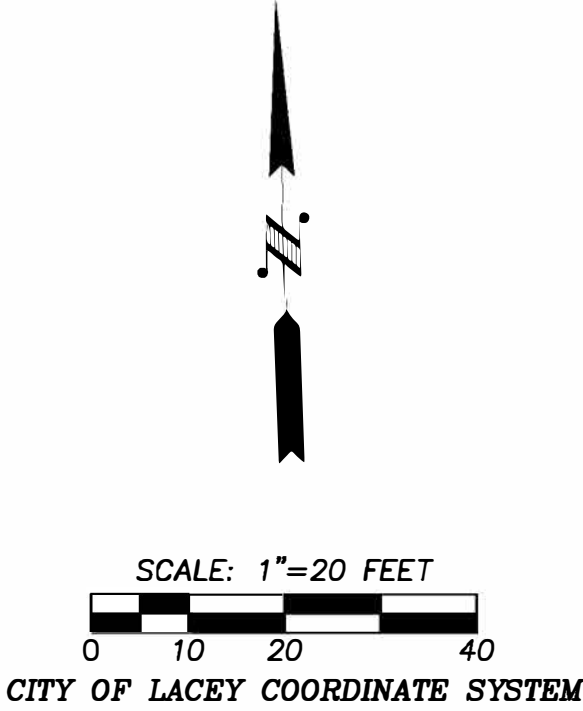
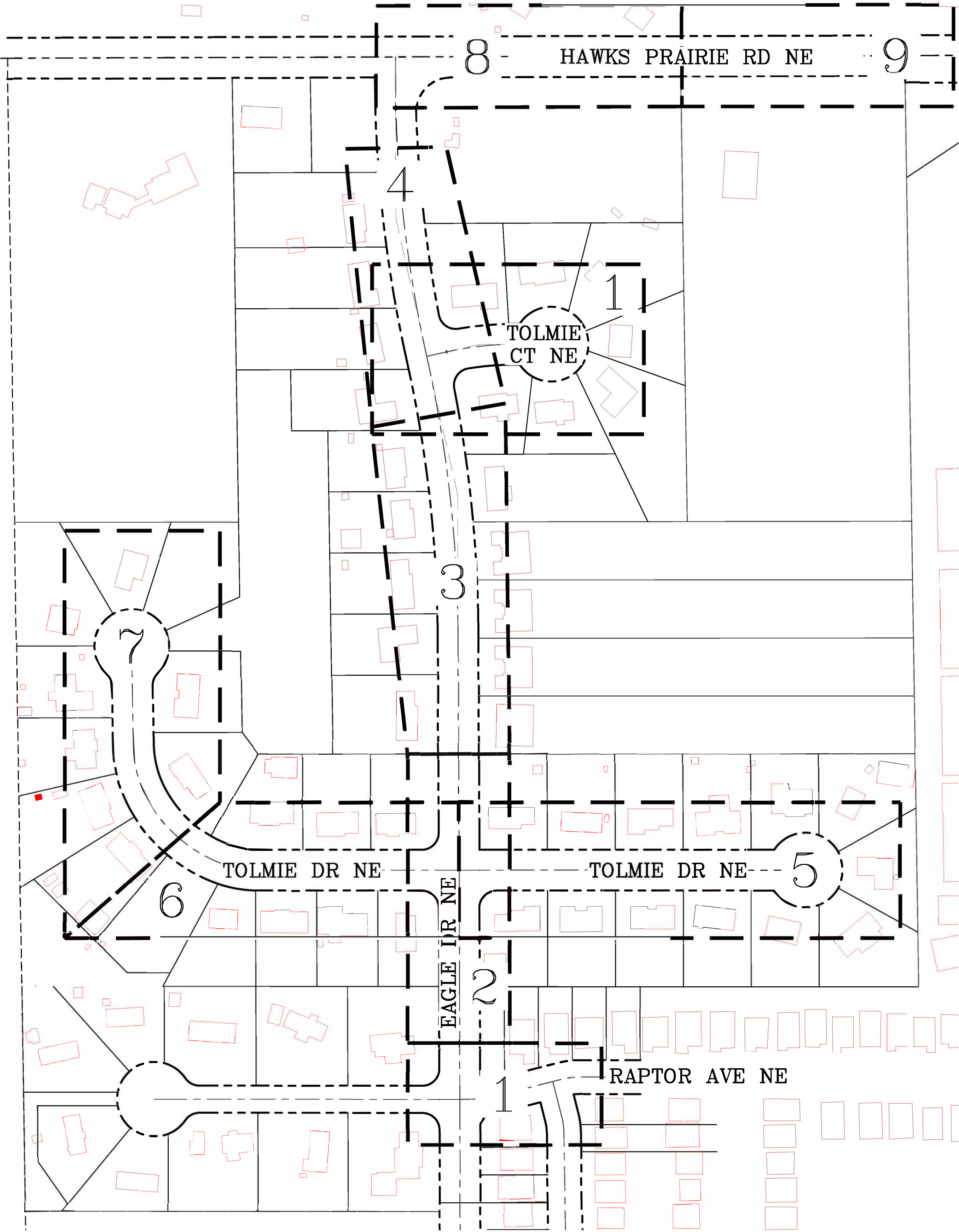


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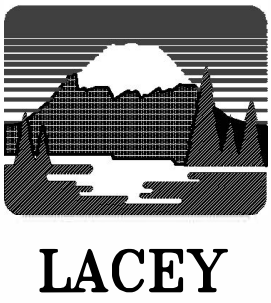
ULID 25
TOLMIE SEWER IMPROVEMENTS
GENERAL NOTES

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SEC. 03, T18N, R1W, W.M. & SEC. 34, T19N, R1W, W.M.



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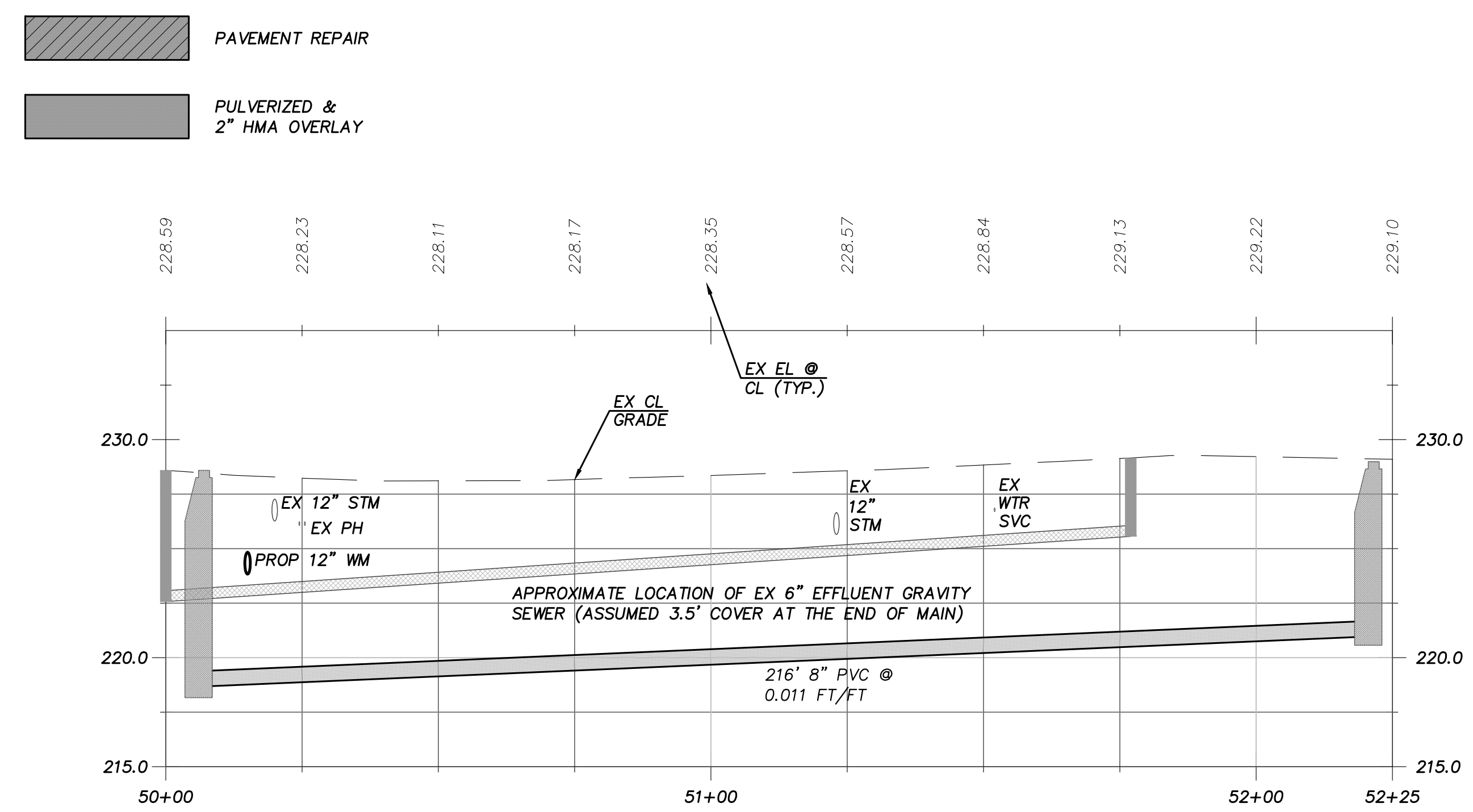
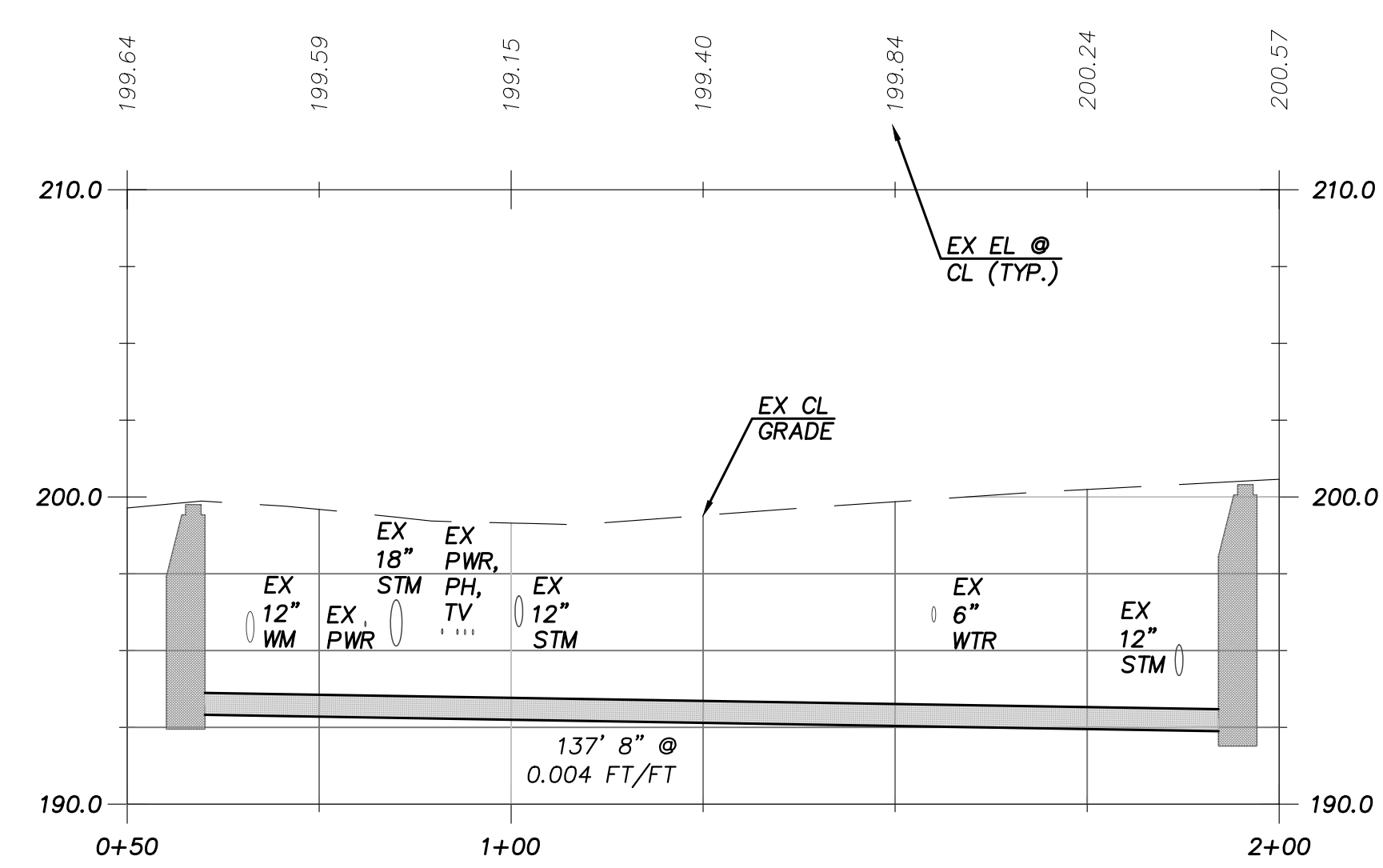
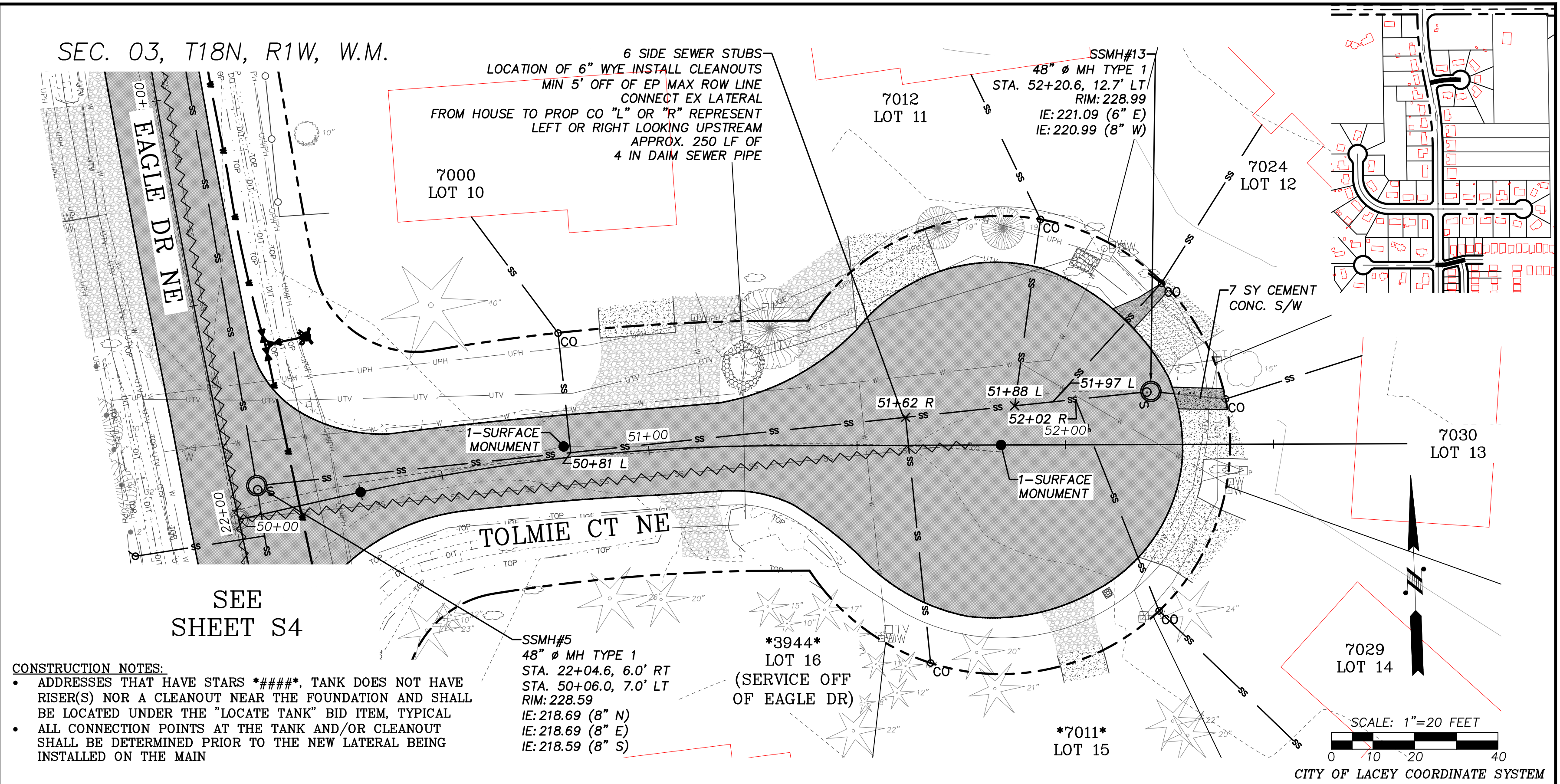
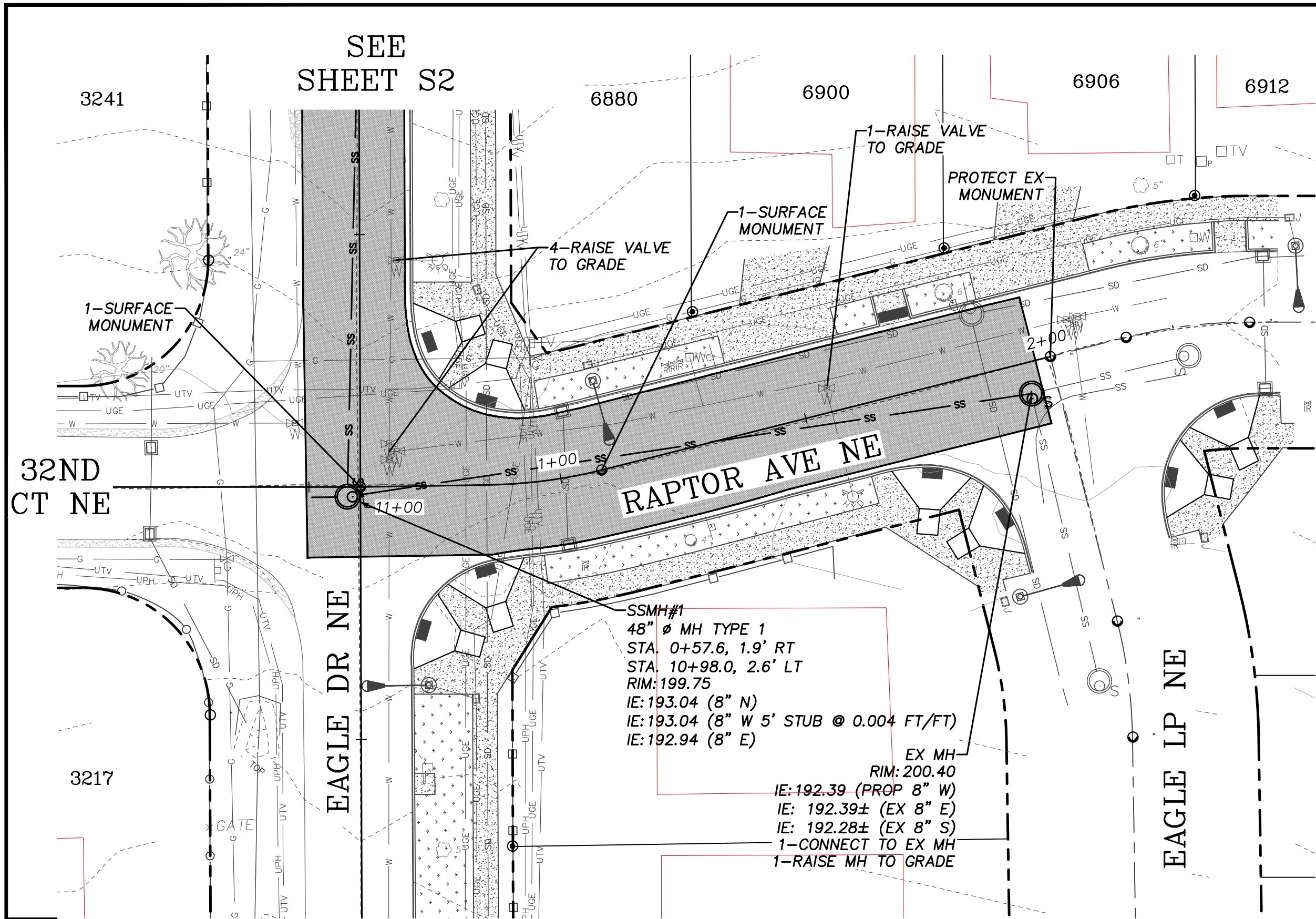


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ULID 25
TOLMIE SEWER IMPROVEMENTS
STA 0+50 TO 2+00
50+00 TO 52+25

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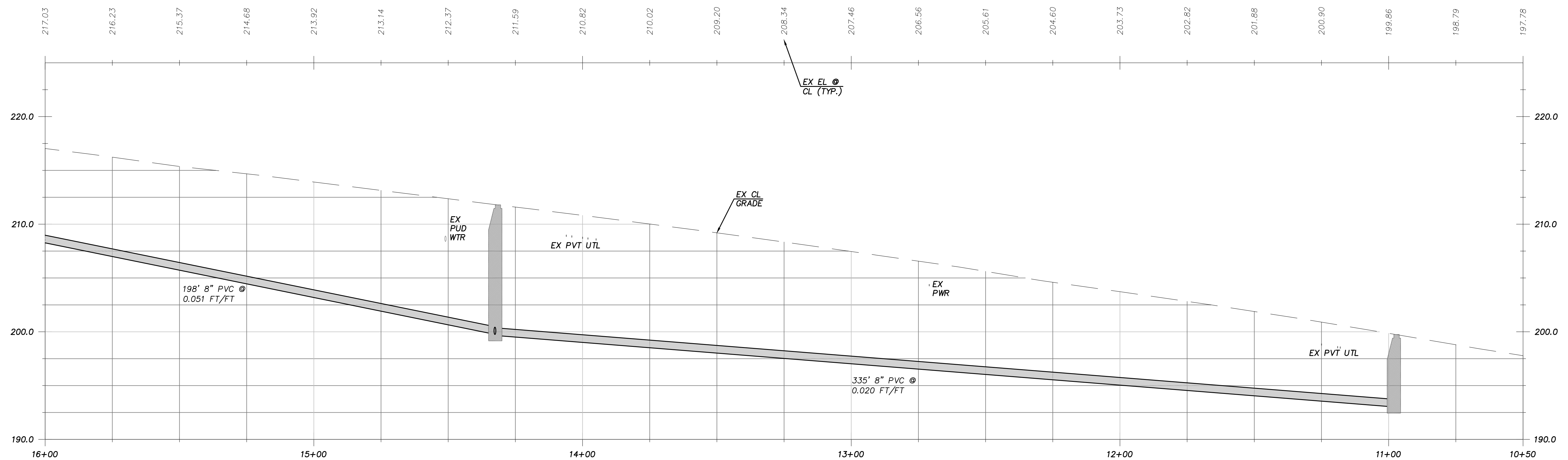
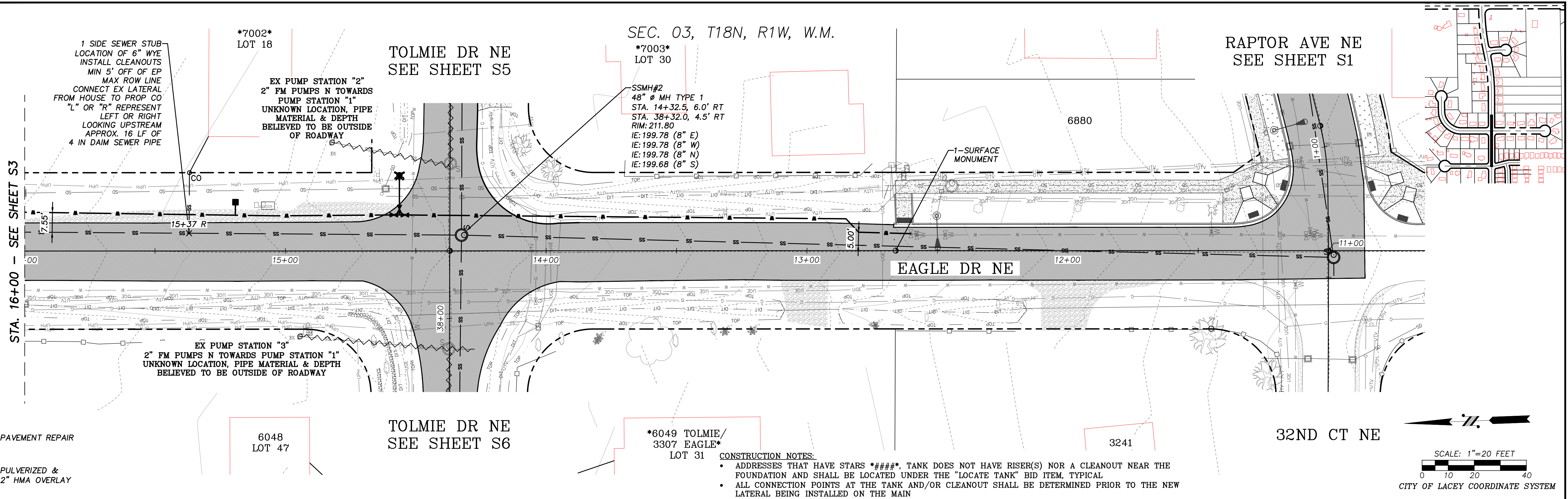


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TOLMIE SEWER IMPROVEMENTS
SEWER STA 0+50 TO 2+00
STA 50+00 TO 52+25

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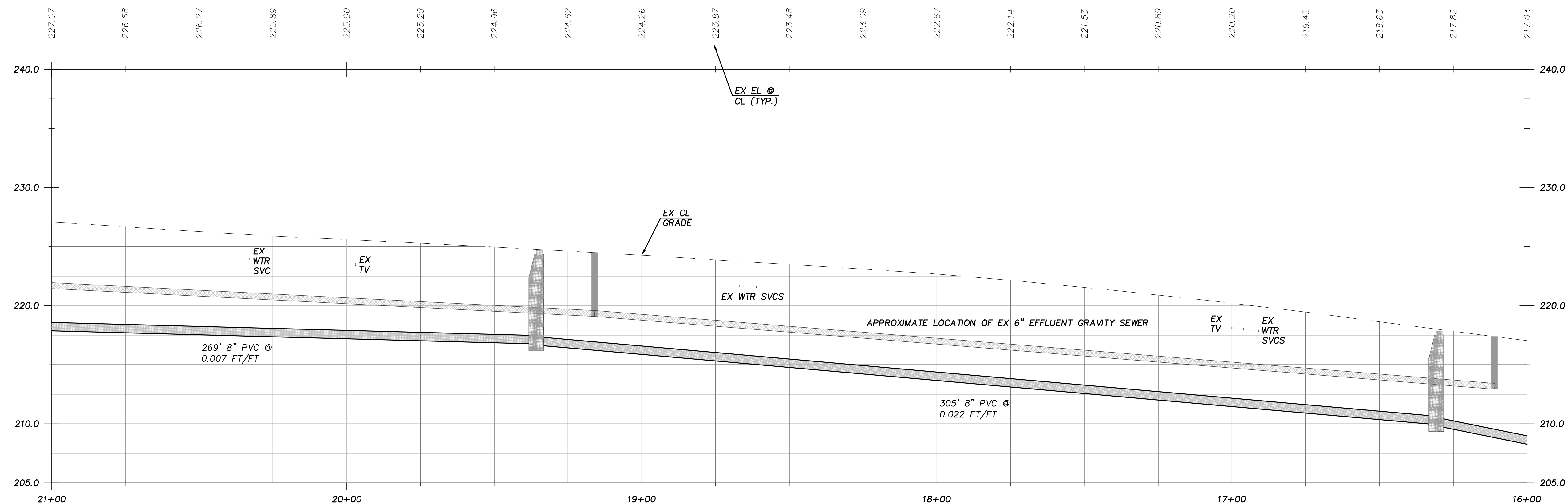
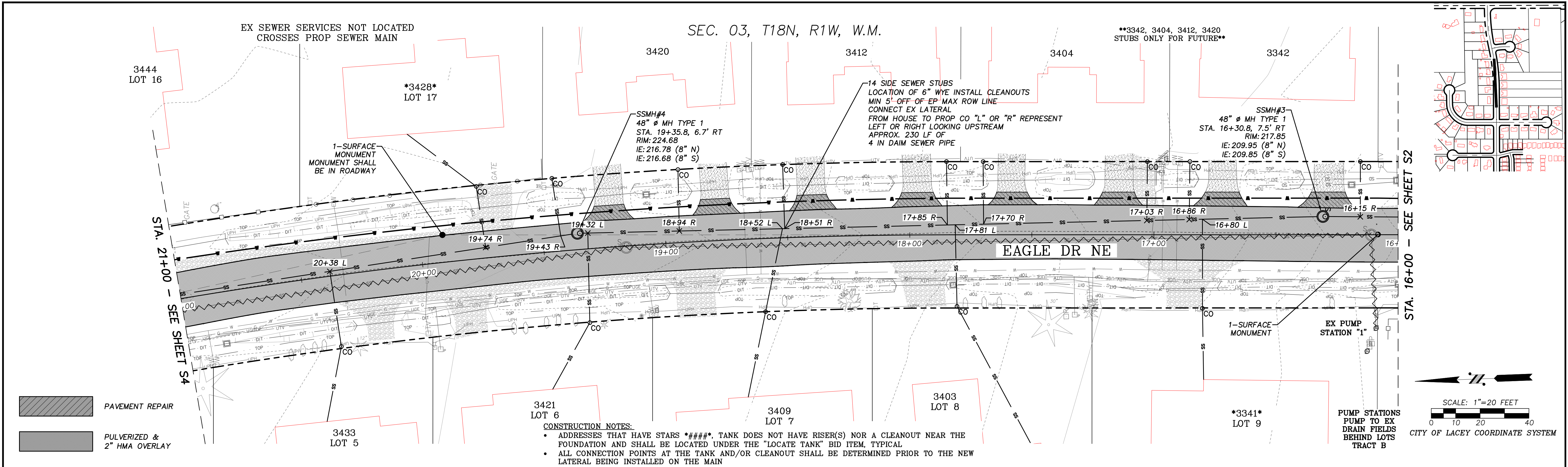


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ULID 25
TOLMIE SEWER IMPROVEMENTS
SEWER STA 10+50 TO 16+00

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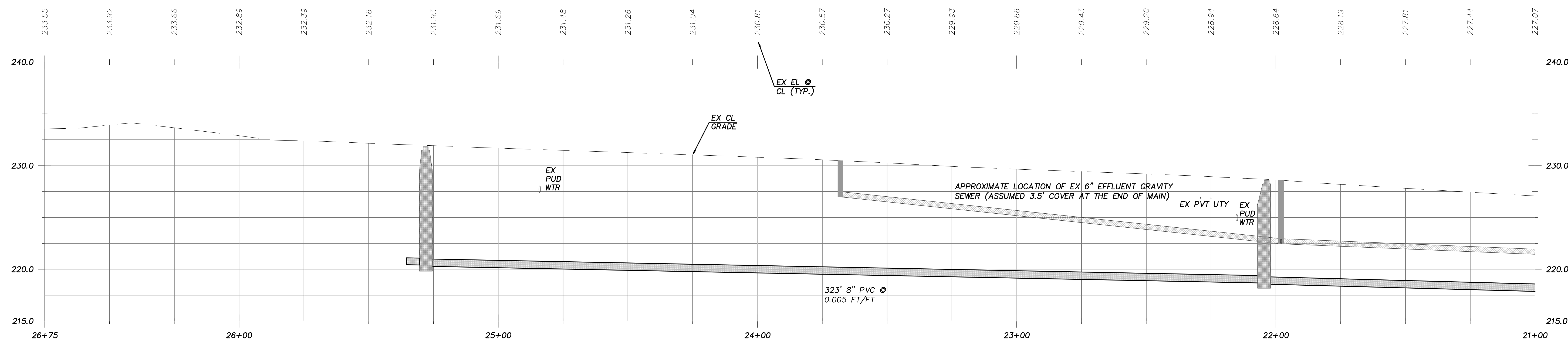
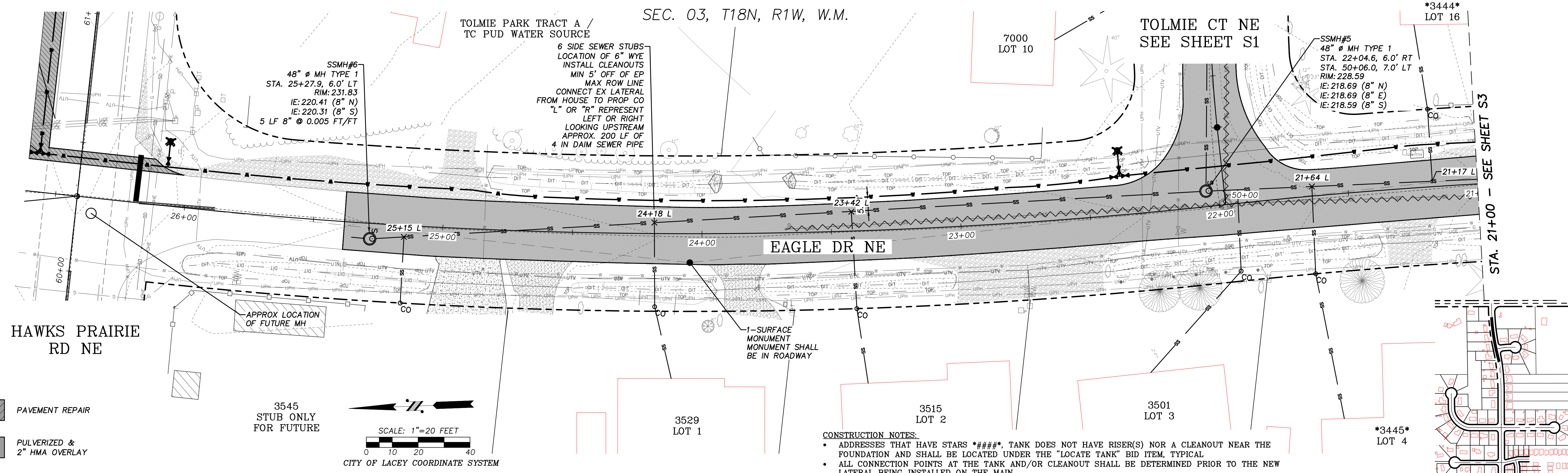


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TOLMIE SEWER IMPROVEMENTS
SEWER STA 16+00 TO 21+00

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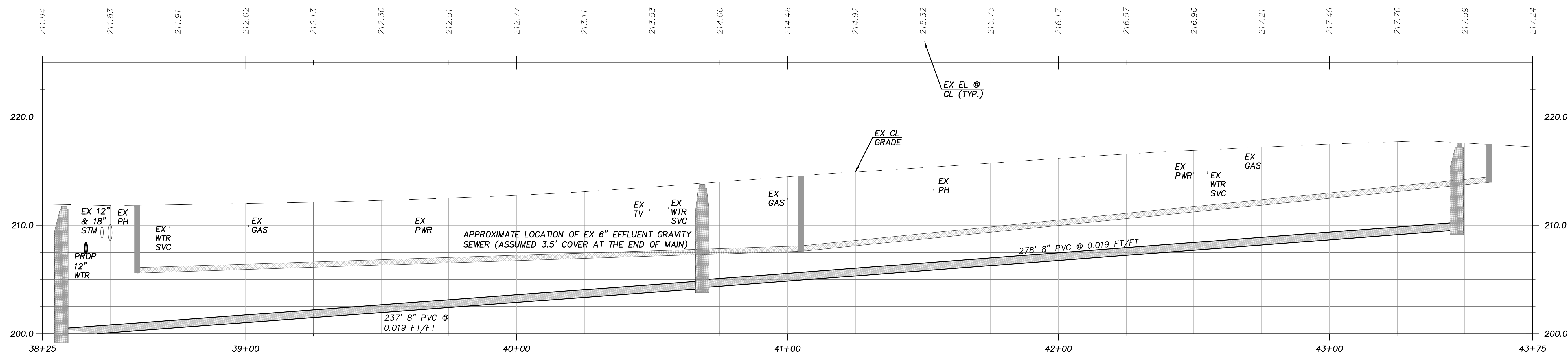
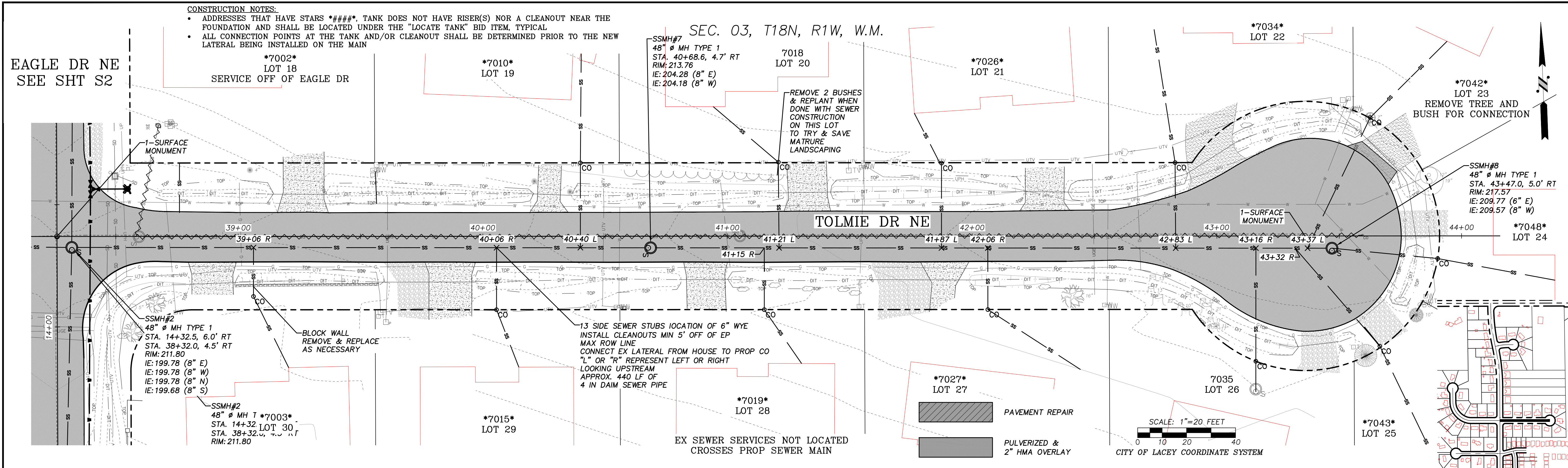


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TOLMIE SEWER IMPROVEMENTS
SEWER STA 21+00 TO 26+50

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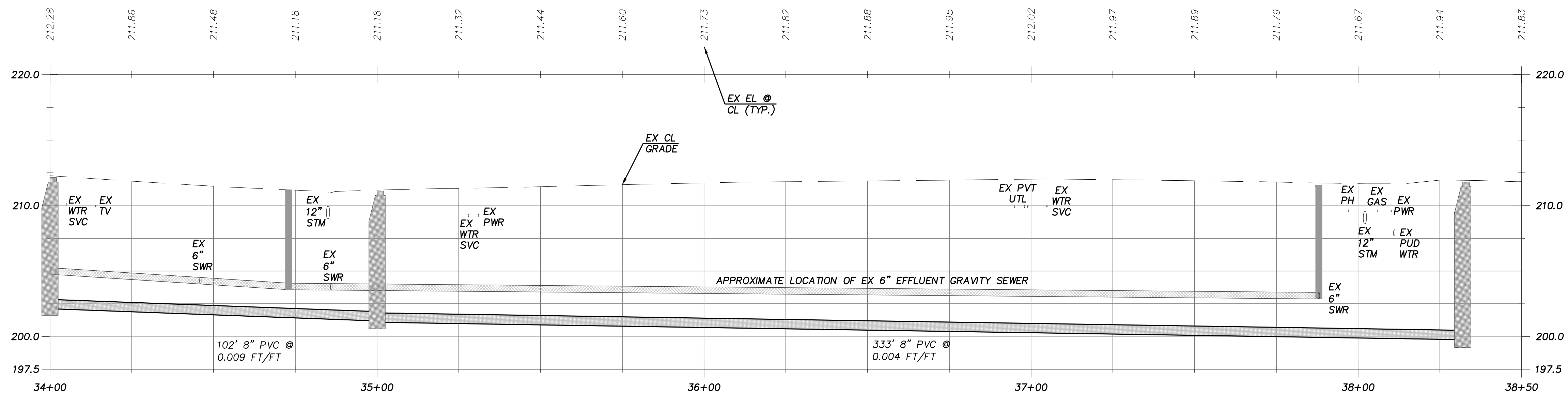
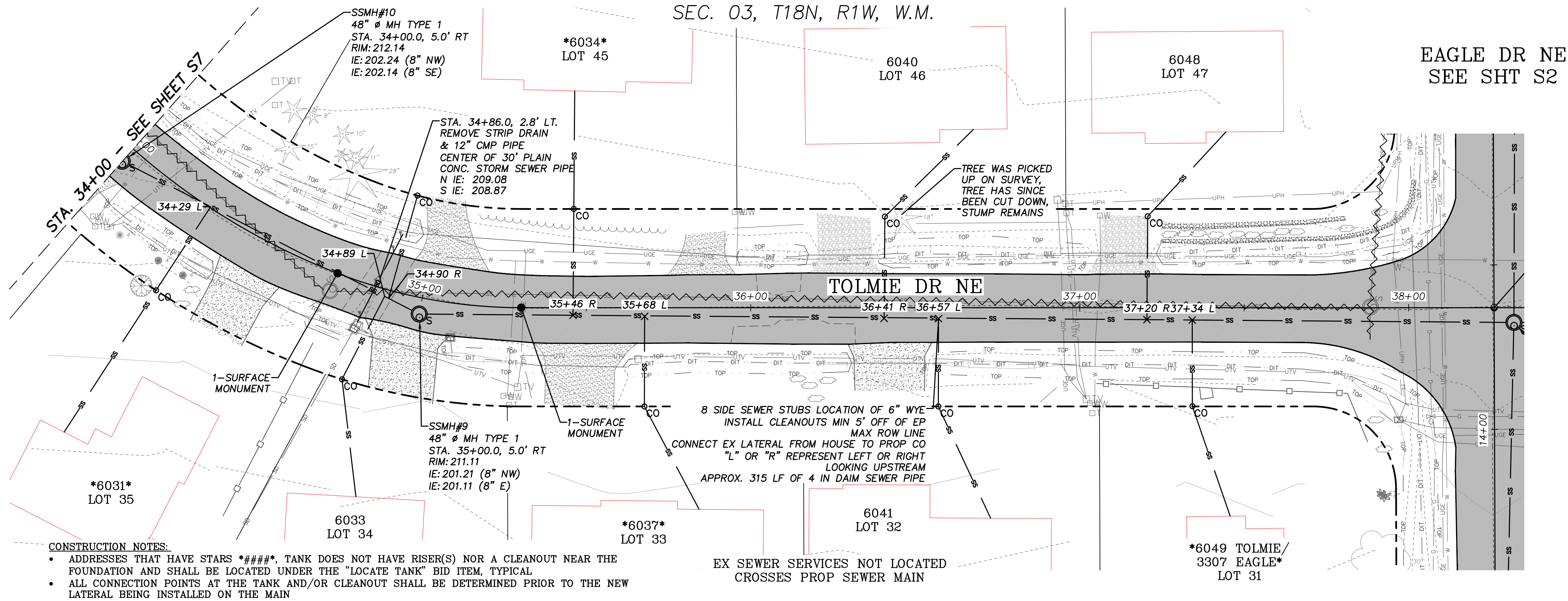
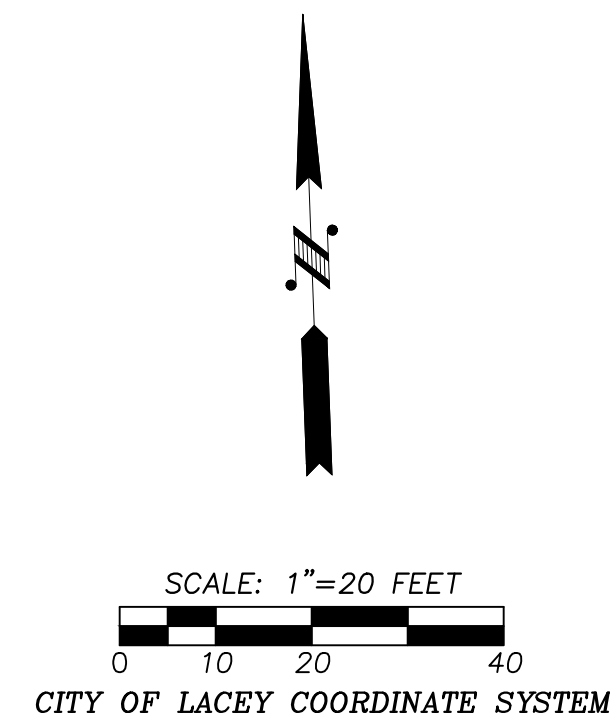


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TOLMIE SEWER IMPROVEMENTS
SEWER STA 38+25 TO 43+75

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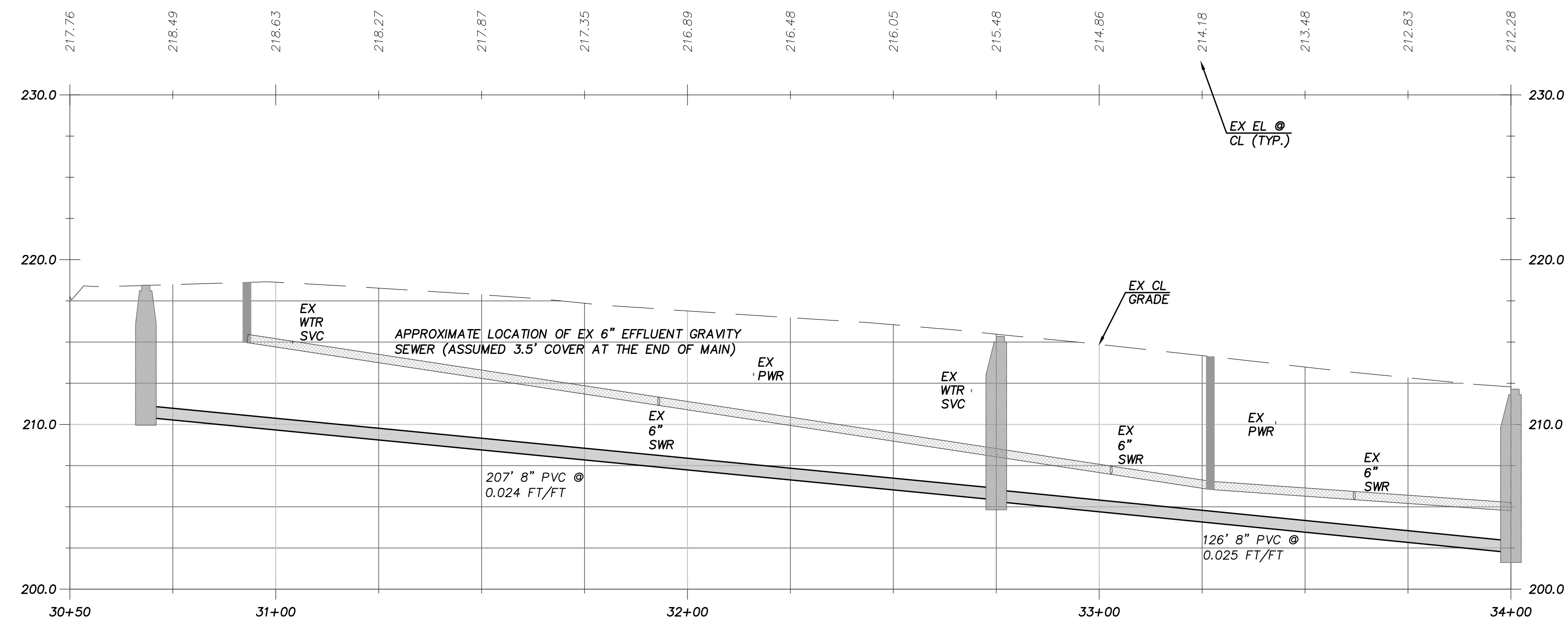
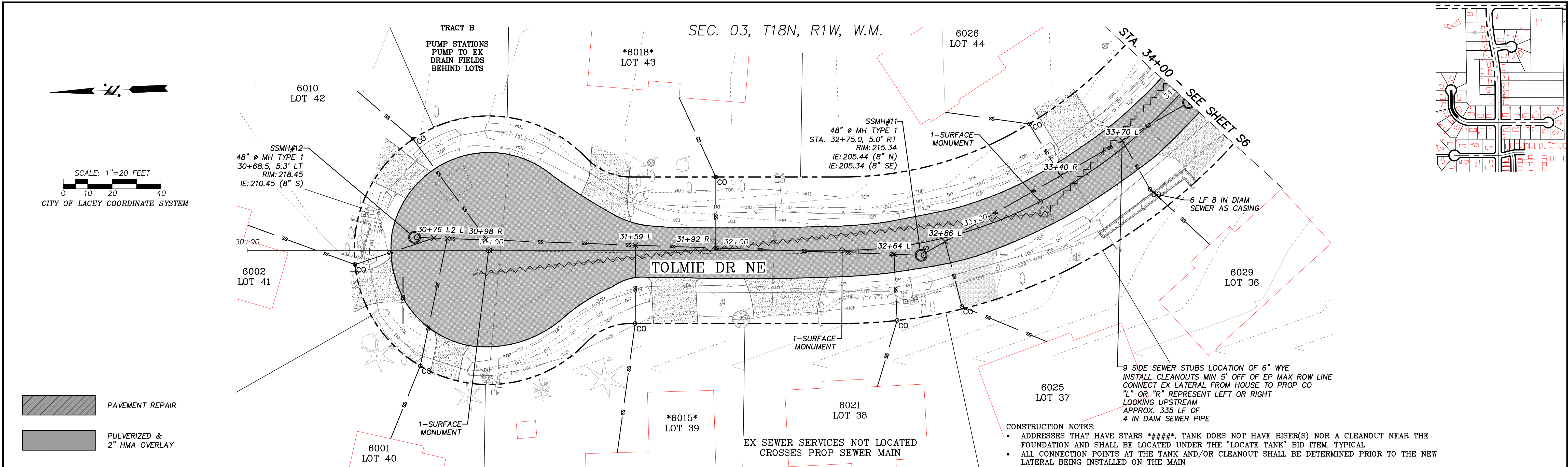


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TOLMIE SEWER IMPROVEMENTS
SEWER STA 34+00 TO 38+50

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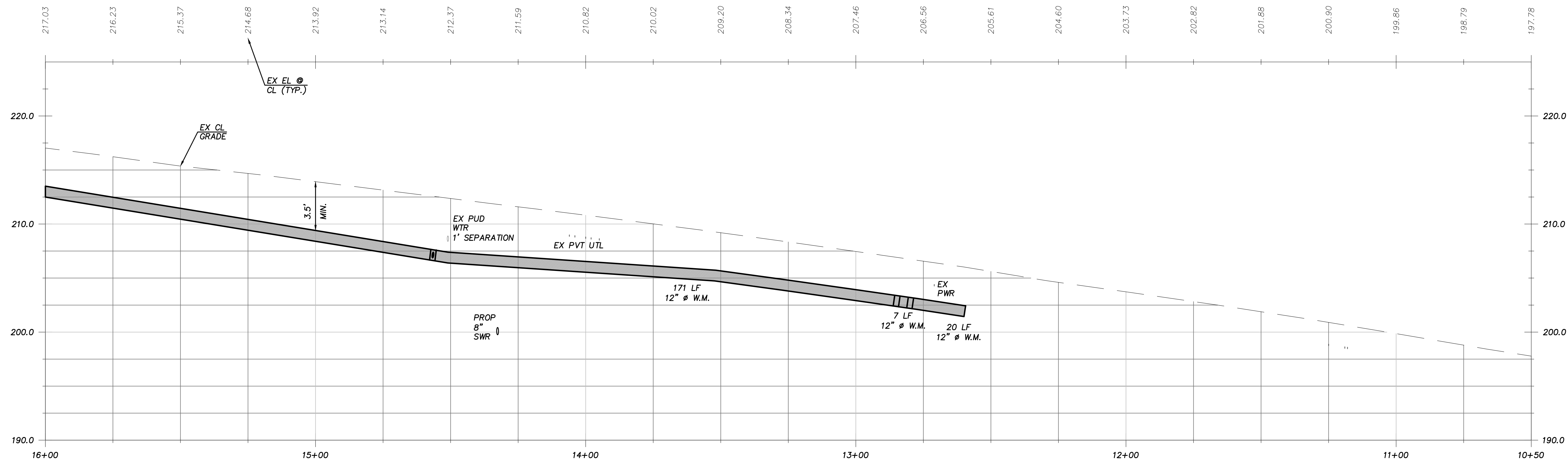
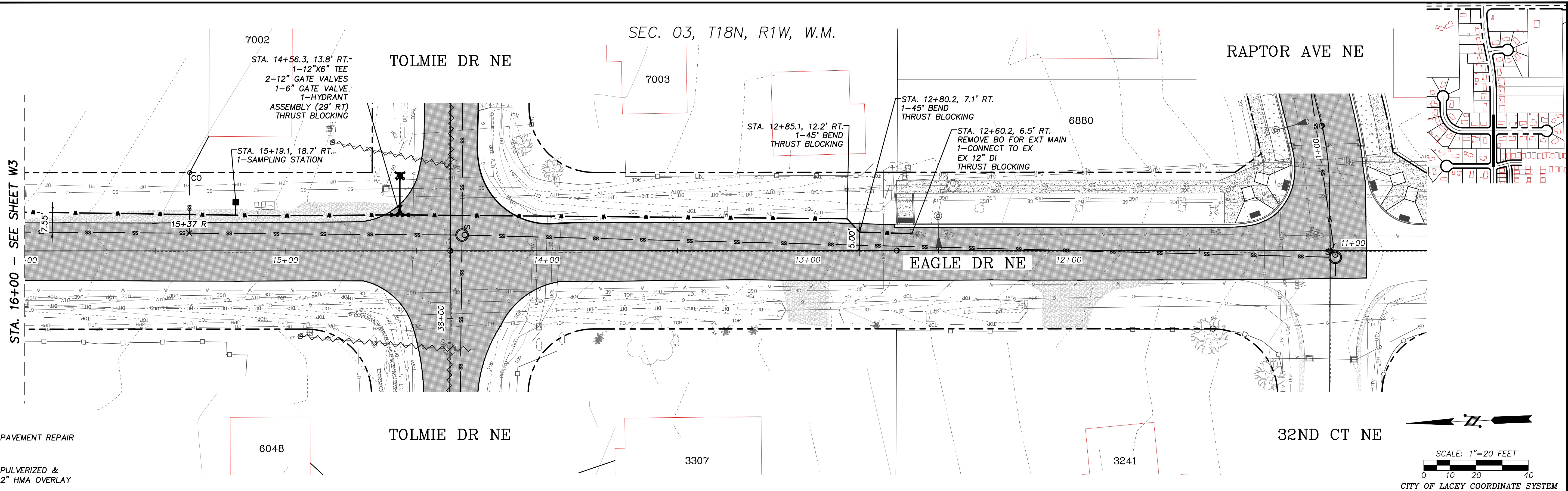


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SEWER STA 30+50 TO 34+00

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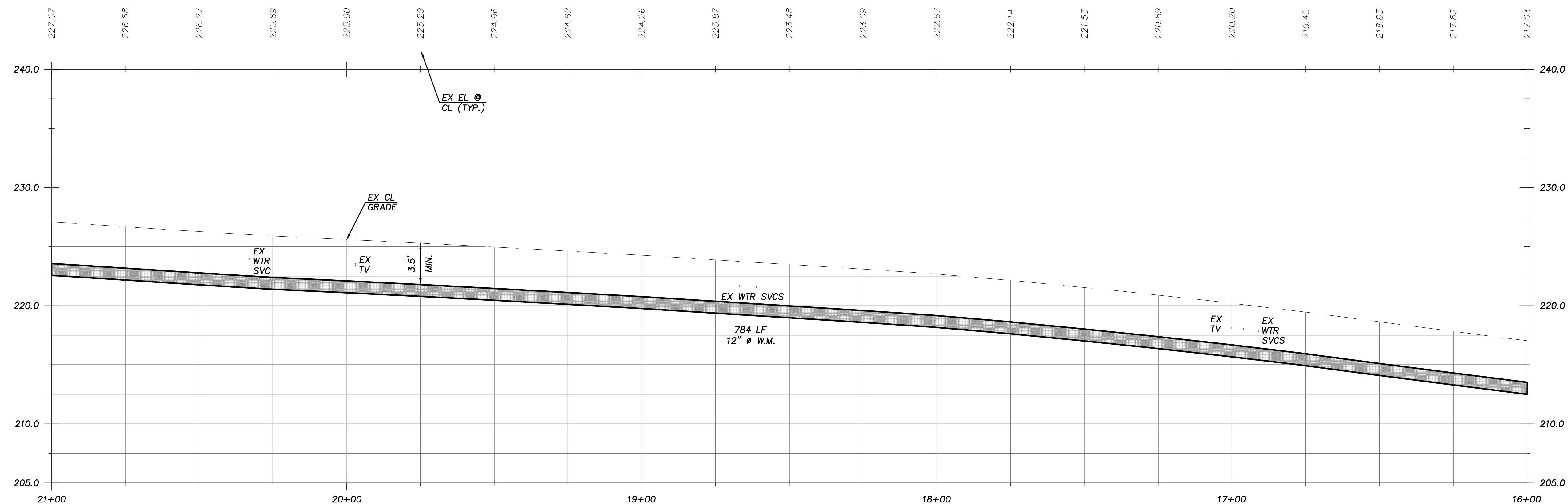
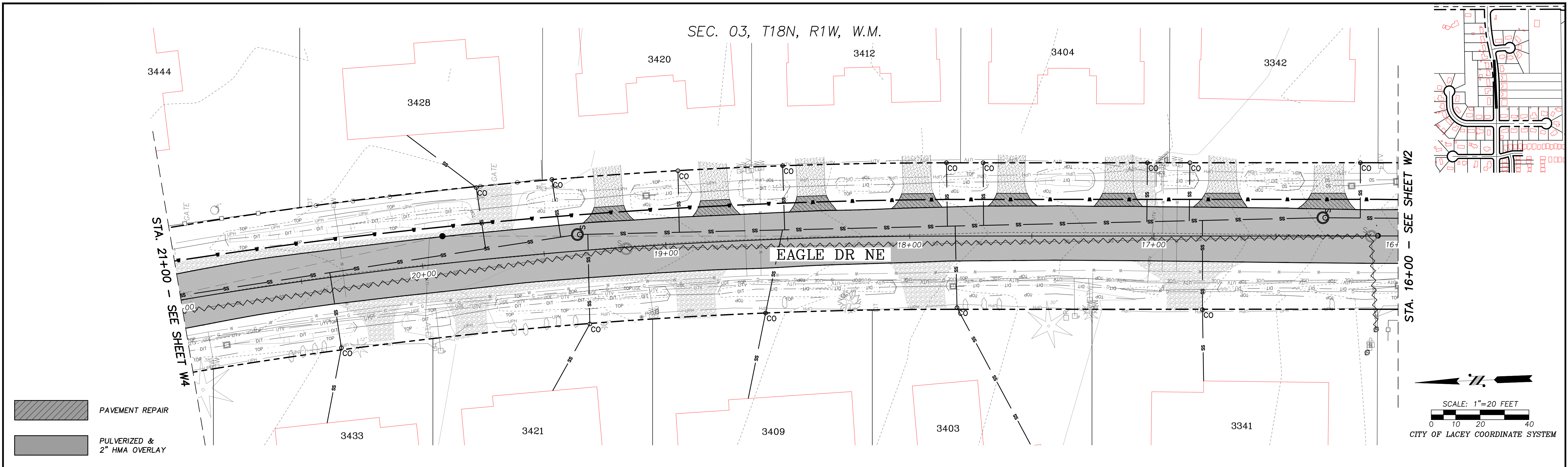


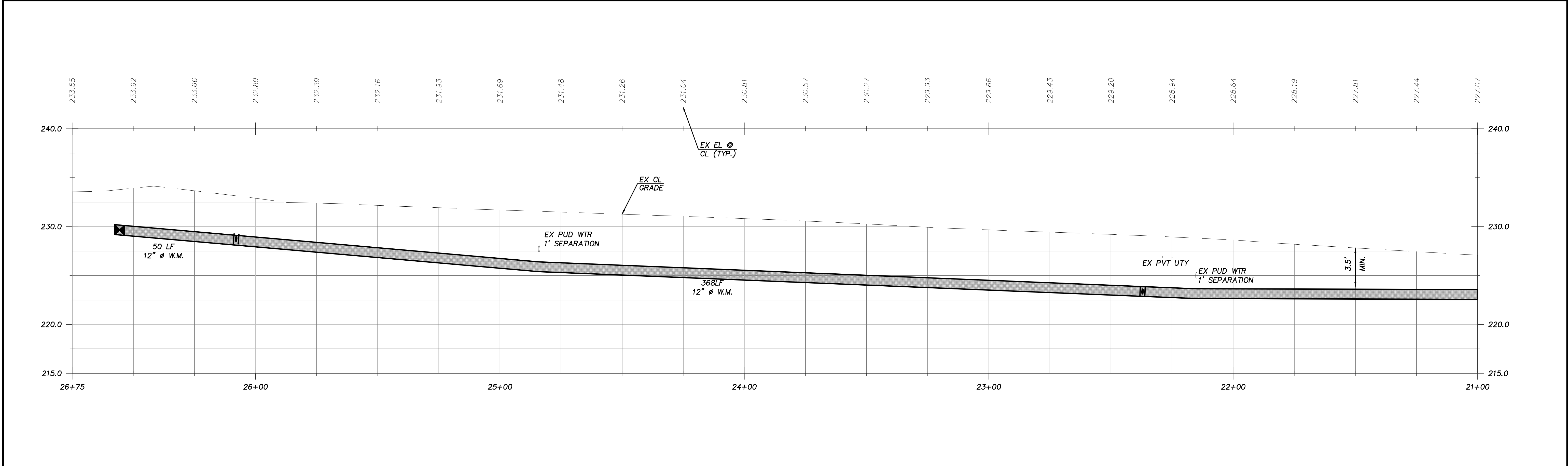
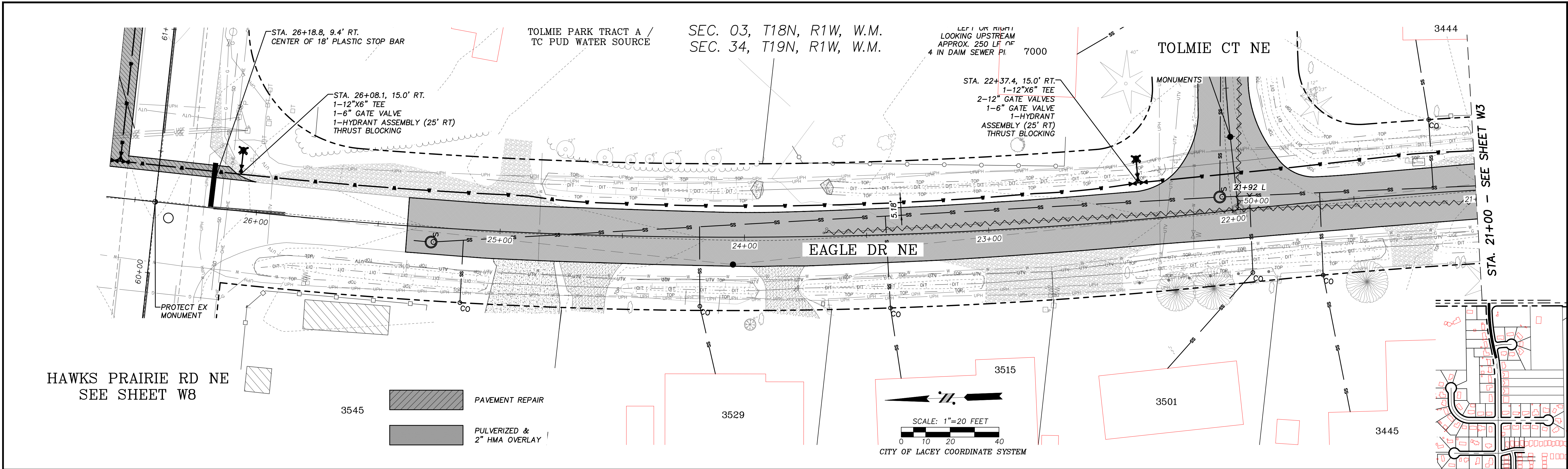
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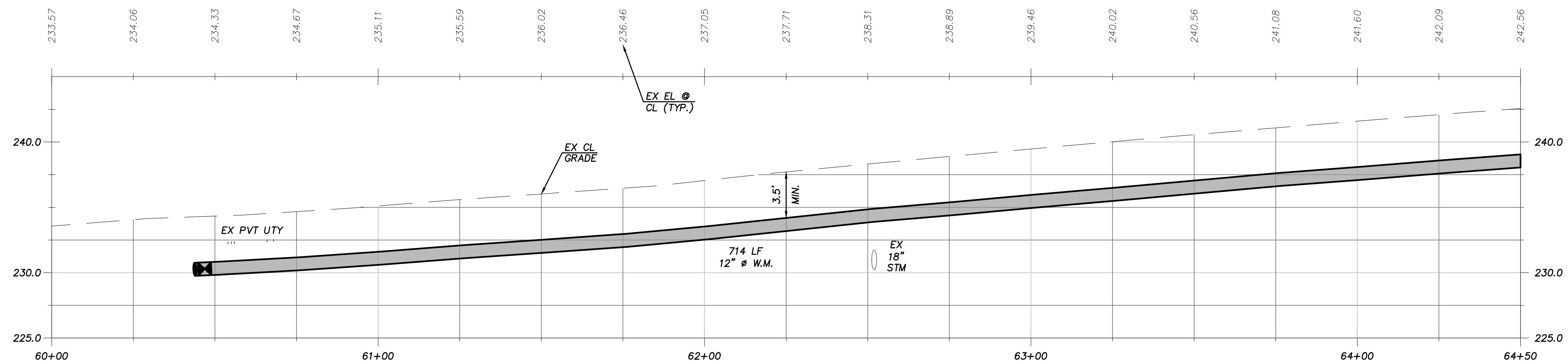
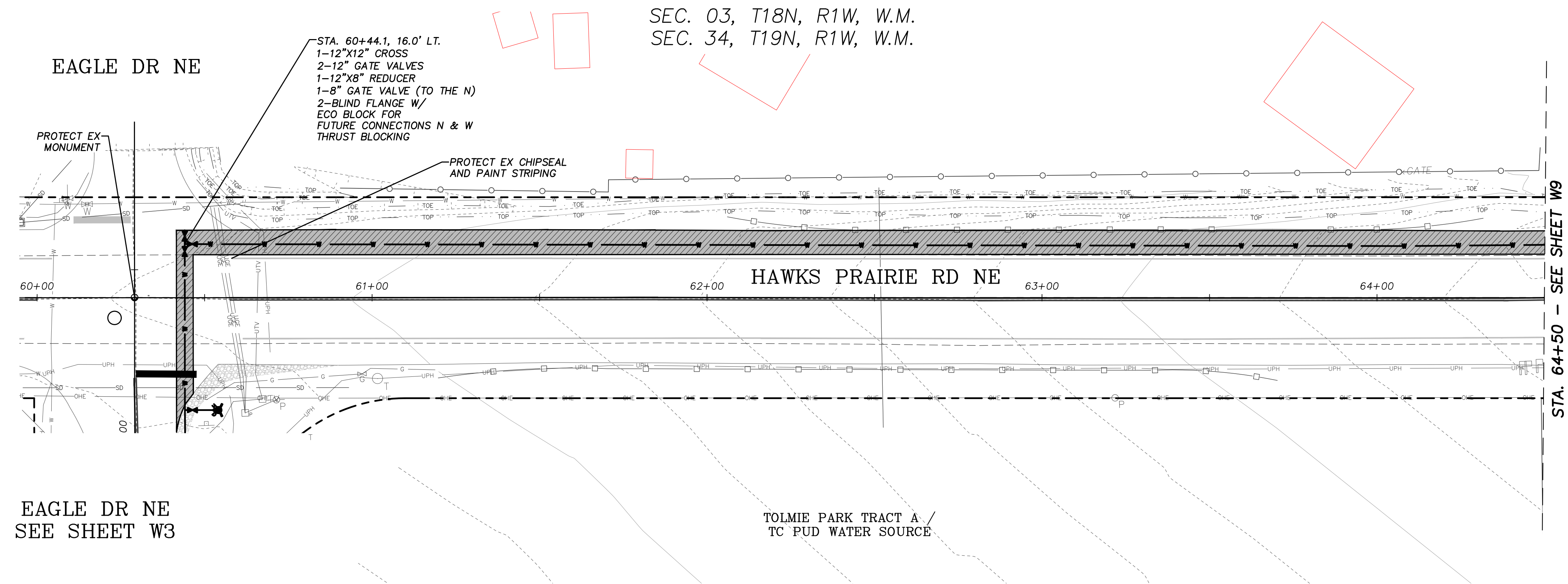
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TOLMIE SEWER IMPROVEMENTS
WATER STA 10+50 TO 16+00

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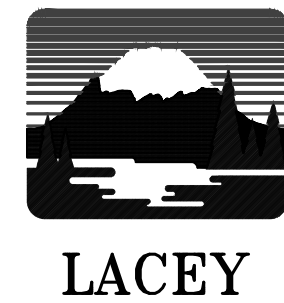
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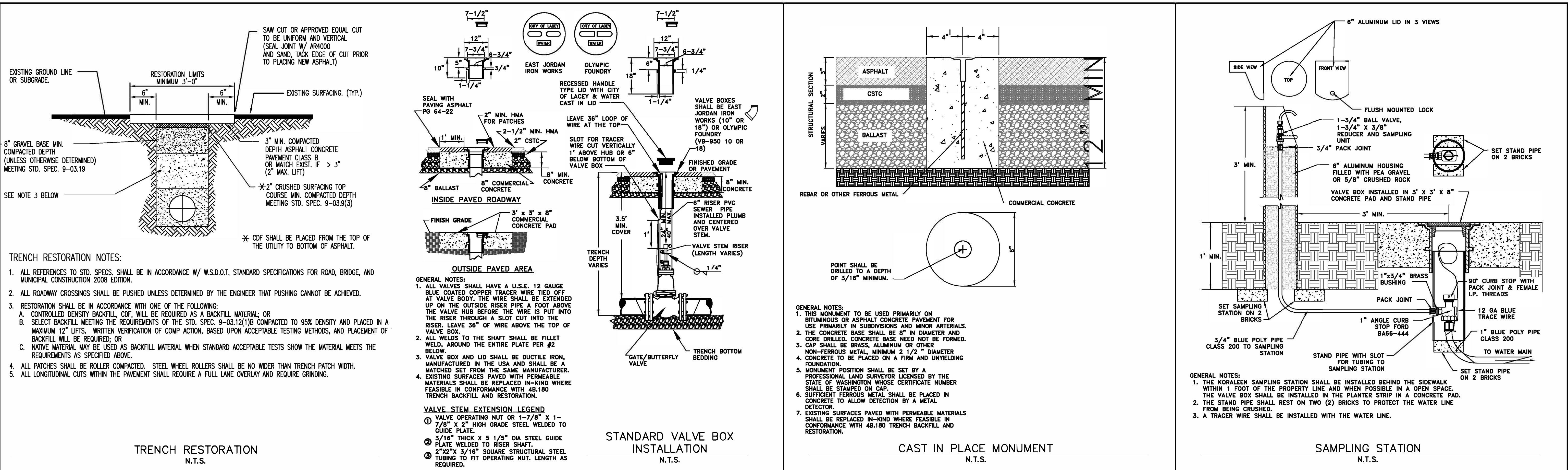


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ULID 25
TOLMIE SEWER IMPROVEMENTS
WATER STA 60+00 TO 64+50

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CLEANOUT TO BE CONSTRUCTED AT PROPERTY LINE OR BACK OF 10' UTILITY EASEMENT AS DETERMINED BY ENGINEER

NEW 6" PVC SIDE SEWER STUB W/ CLEANOUT

ROAD C/L

PROPERTY LINE

NEW 4" PVC SIDE SEWER @ 2.0% MIN. SLOPE

WATER

18" MIN.

6"x4" REDUCER

SIDE SEWER STUB PAY LIMITS

4 INCH DIAMETER SEWER PIPE PAY LIMITS

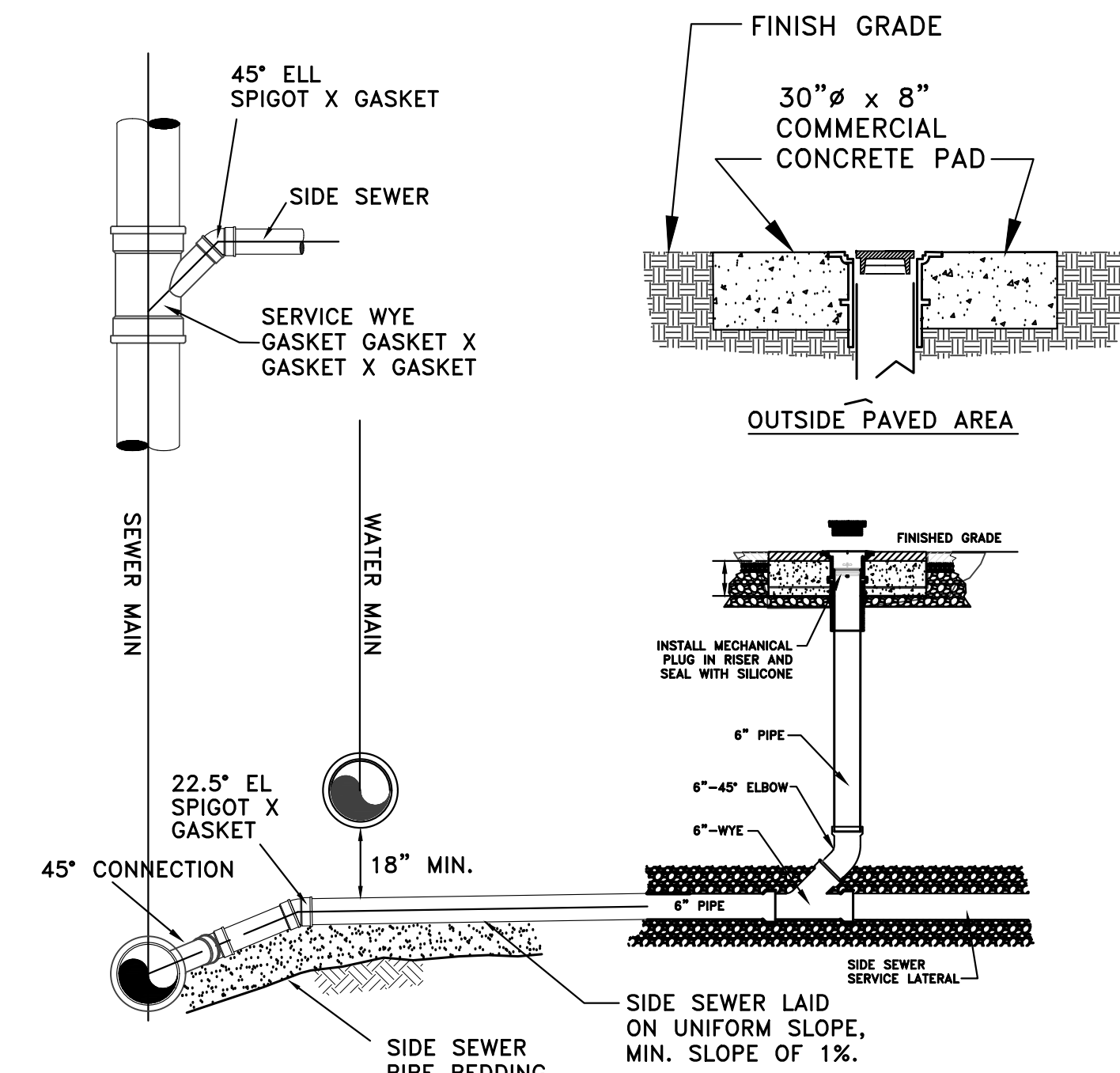
PROVIDE NEW 4" CLEANOUT IF ONE DOES NOT EXIST

SEWER CONNECTION

N.T.S.

CONTRACTOR TO COORDINATE ORDER OR WORK OF SIDE SEWER CONNECTION AND TANK ABANDONMENT TO MAINTAIN FUNCTION OF EXISTING FACILITIES PER SPECIFICATION 7-20

EXISTING PUMP CHAMBERS SHALL BE ABANDONED AS PART THE SEPTIC SYSTEM AND ARE TO BE INCLUDED IN TANK ABANDONMENT BID ITEM. KNOWN PUMP CHAMBERS ARE SHOWN ON THE PLANS, CONTRACTOR TO VERIFY IF PUMP CHAMBER EXISTS AT EACH PROPERTY AND ABANDON ACCORDINGLY.



GRAVITY SANITARY SEWER SERVICE

RISERS TO BE REMOVED, IF RISERS ARE LOCATED IN PAVED AREA, PAVING SHALL BE PAID FOR BY SEPARATE PAVING BID ITEM SEE SHEET S251 - S254 FOR AREAS REQUIRING PAVING

EX. GRADE

NATIVE SOIL OR GRAVEL BACKFILL FOR WALLS COMPACTED TO 90%

PERFORATE TANK BOTTOM TO PROVIDE DRAINAGE

SEPTIC TANK ABANDONMENT (RE-DIRECT FLOW)

N.T.S.

SEPTIC NOTE:
THE CONTRACTOR SHALL OBTAIN AND COMPLY WITH ALL THURSTON COUNTY DEPARTMENT OF HEALTH REQUIREMENTS FOR ABANDONING THE ON-SITE SEPTIC SYSTEMS. THE CONTRACTOR WILL NOT BE RESPONSIBLE FOR FILLING OUT ANY APPLICATIONS OR PAYING ANY FEES ASSOCIATED WITH THE ABANDONMENT OF THE EXISTING SEPTIC SYSTEMS.

NEW 4" CLEANOUT AS REQUIRED

EX. GRADE

NEW 4" PVC SEWER PIPE @ 2.0% MIN SLOPE

PEA GRAVEL COMPACTED TO 90%

PERFORATE TANK BOTTOM TO PROVIDE DRAINAGE

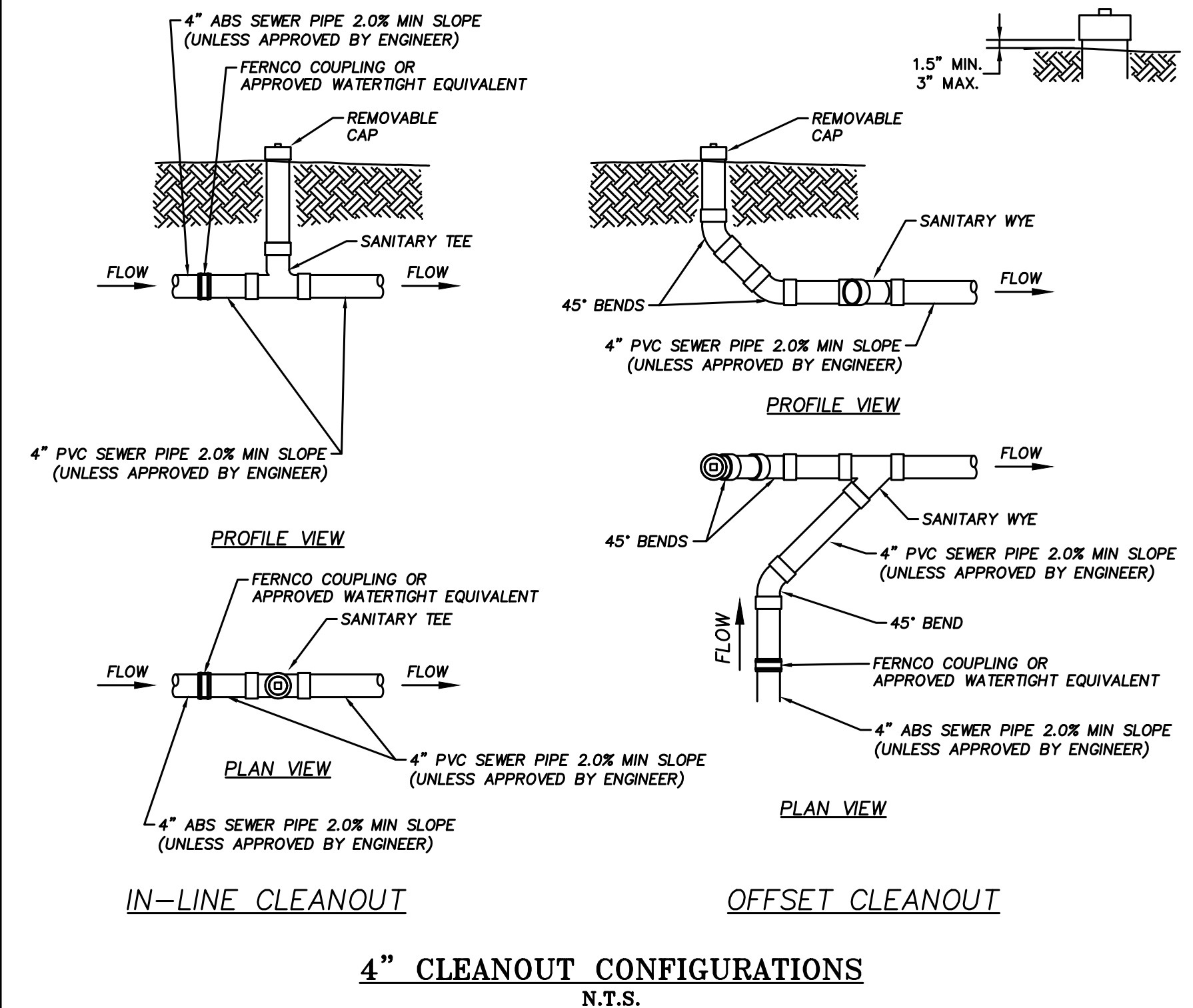
SEPTIC TANK ABANDONMENT (FLOW THROUGH TANK)

N.T.S.

RUBBLIZE TANK LID, WALLS & BAFFLES TO 6" MIN BELOW OUTLET ELEVATION

REMOVE ALL PIPE & FITTINGS FROM TANK & PUMP CHAMBER SEAL & GROUT ALL INLET & OUTLET PIPES AS REQUIRED

RUBBLIZED CONCRETE FROM TANK LID, WALLS AND BAFFLES PIECES NO LARGER THAN 4" REBAR TO BE REMOVED



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



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

ULID 25 TOLMIE SEWER IMPROVEMENTS DETAILS

REVISION BLOCK			PAGE NO.	SHEET NO.
NO.	DATE	DESCRIPTION	DT2	17
			DWG NO.	OF
			D-24-02	18

