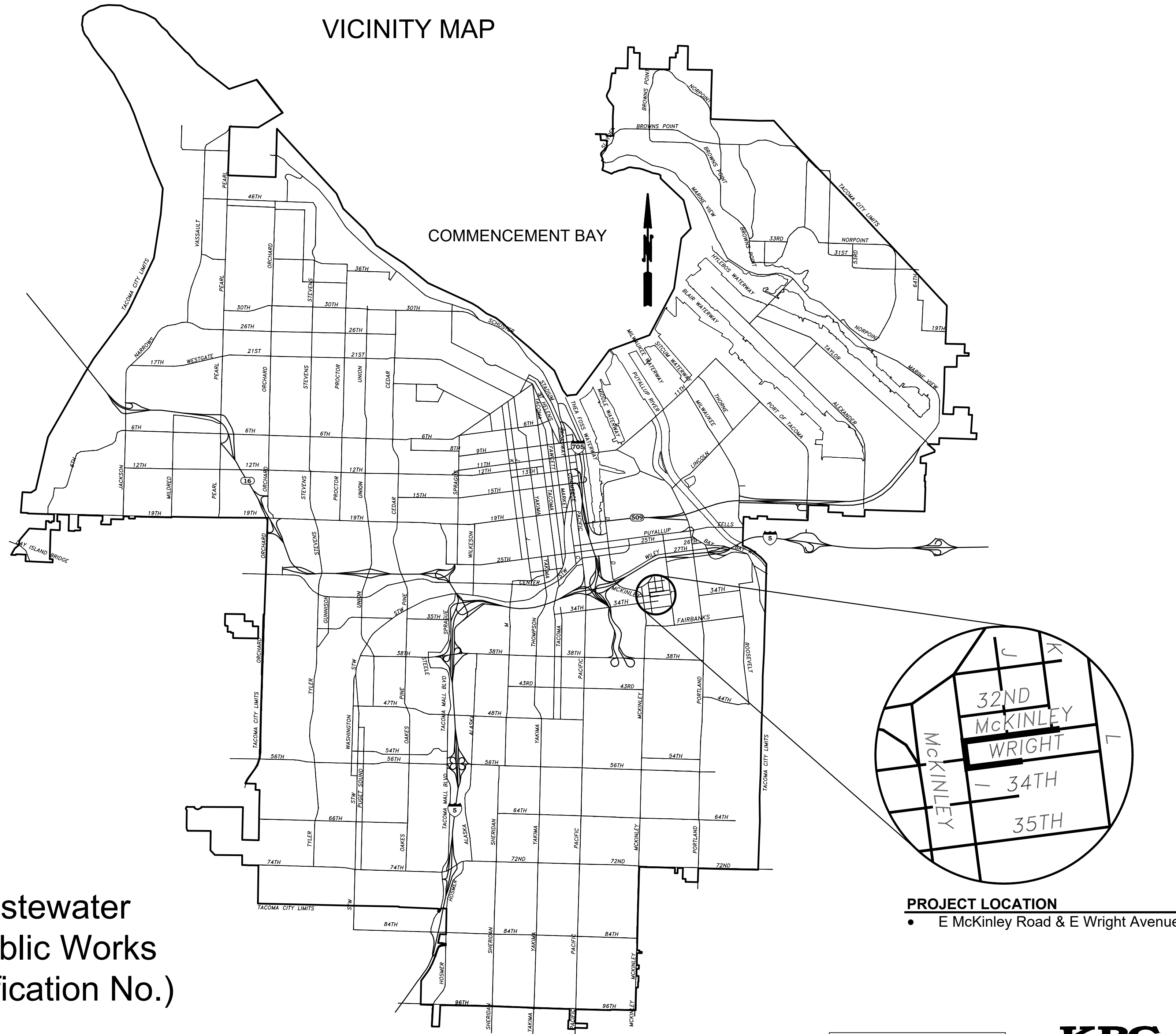




Wastewater Side Sewer Improvements McKinley Road

Environmental Services Department
June 2024



ENV-04018-08 - Wastewater
PWK-00438-46 - Public Works
ES24-0034F (Specification No.)

BID DOCUMENT

**CALL 2 DAYS
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**KPG
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2502 Jefferson Avenue
Tacoma, WA 98402 253.627.0720
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INDEX OF DRAWINGS

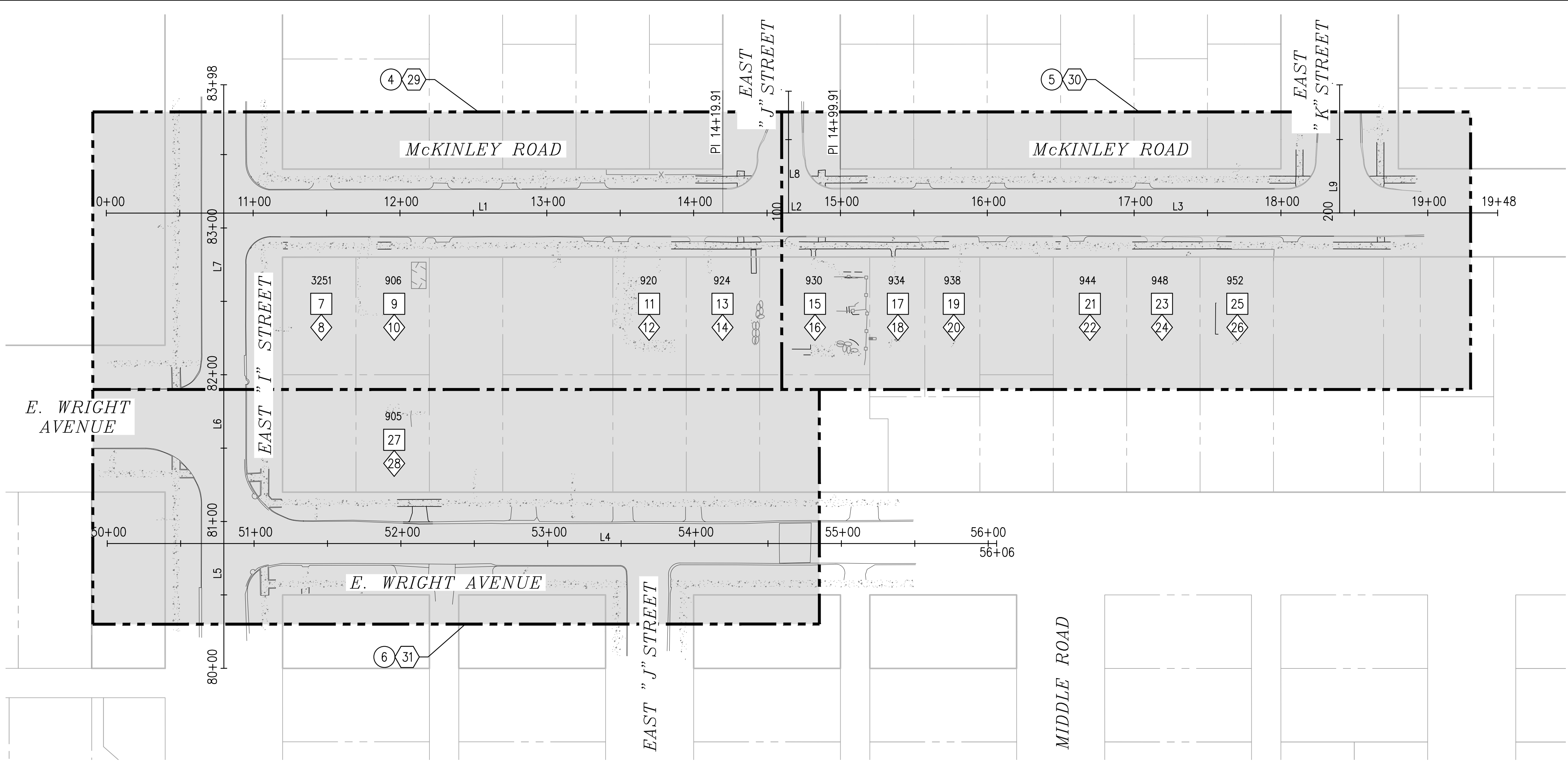
SHEET NUMBER	TITLE OF DRAWINGS
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2	Legend & Abbreviations
3	Alignment & Survey Control Data
4	Demolition Plan & TESC - McKinley Road
5	Demolition Plan & TESC - McKinley Road
6	Demolition Plan & TESC - E Wright Avenue
7	Side Sewer Plan & Profile - 3251 - East I Street
8	Private Improvement Restoration Plan - 3251 - East I Street
9	Side Sewer Plan & Profile - 906 McKinley Road
10	Private Improvement Restoration Plan - 906 McKinley Road
11	Side Sewer Plan & Profile - 920 McKinley Road
12	Private Improvement Restoration Plan - 920 McKinley Road
13	Side Sewer Plan & Profile - 924 McKinley Road
14	Private Improvement Restoration Plan - 924 McKinley Road
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16	Private Improvement Restoration Plan - 930 McKinley Road
17	Side Sewer Plan & Profile - 934 McKinley Road
18	Private Improvement Restoration Plan - 934 McKinley Road
19	Side Sewer Plan & Profile - 938 McKinley Road
20	Private Improvement Restoration Plan - 938 McKinley Road
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30	McKinley Road Plan & Profile, ROW & Restoration Plan
31	E Wright Avenue Road Plan & Profile, ROW & Restoration Plan
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34-35	Curb Ramp & Intersection Grading Plan - McKinley Road & East K Street
36	Typical Sections
37	Typical Details

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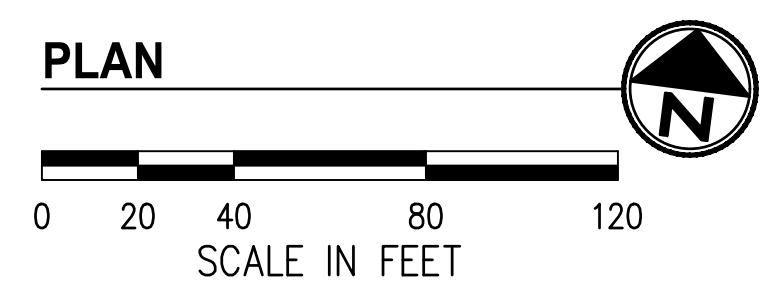
REFERENCE LINETYPES			WATER		POWER		TRAFFIC SIGNAL INTERCONNECT AND LIGHTING		ABBREVIATIONS				GENERAL SEWER NOTES	
EXISTING	DESCRIPTION		SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION					<p>1. UTILITIES SHOWN ON THE PLAN AND PROFILE VIEW ARE APPROXIMATE LOCATIONS FROM BEST AVAILABLE INFORMATION AND MAY BE INCOMPLETE. UTILITY CROSSINGS ARE ONLY SHOWN ON THE PROFILE VIEW IF POTHOLE OR RECORD DRAWING ELEVATIONS ARE AVAILABLE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL EXISTING UTILITIES. CALL TWO BUSINESS DAYS BEFORE YOU DIG (1-800-424-5555) OR VISIT ONLINE WWW.CALLBEFOREYODIG.ORG.</p> <p>2. ALL SIDE SEWERS SHALL BE 6" DIAMETER UNLESS OTHERWISE STATED IN THE PLANS. THE SIDE SEWER PIPE MATERIAL SHALL BE IN ACCORDANCE WITH CITY OF TACOMA SPECIAL PROVISION 7-18. IF A SIDE SEWER IS LOCATED WITHIN 10' OF A WATER SERVICE, THE CONTRACTOR SHALL USE SOLID WALL PVC PRESSURE PIPE PER SECTION 7-18.3(1) OF THE CITY OF TACOMA SPECIAL PROVISIONS.</p> <p>3. THE STATIONING PROVIDED IN THE SIDE SEWER TABLE IS ESTIMATED BASED ON THE VIDEO INSPECTION OF THE MAIN. THE LOCATION OF THE SIDE SEWER IS UNKNOWN PAST THE CONNECTION AT THE EXISTING MAIN.</p> <p>4. PRESERVE AND PROTECT ALL IMPROVEMENTS & STRUCTURES. REMOVE/TRIM VEGETATION ONLY TO EXTENTS NECESSARY TO CONSTRUCT IMPROVEMENTS.</p> <p>5. OVERHEAD POWER & UTILITIES PRESENT THROUGHOUT PROJECT SITE.</p> <p>6. CONSTRUCTION ACTIVITIES SHALL BE PHASED AS NECESSARY TO MAINTAIN ACCESS FOR RESIDENTS. DRIVEWAY SHALL BE COORDINATED WITH THE ENGINEER AND PROPERTY OWNER(S) A MINIMUM OF 24 HOURS IN ADVANCE.</p> <p>7. CONTRACTOR SHALL PROVIDE TESC MEASURES IN ADDITION TO THOSE SHOWN IF REQUIRED TO PREVENT SEDIMENT FROM LEAVING THE PROJECT SITE. CITY SHALL REVIEW AND APPROVE ALL TESC MEASURES PRIOR TO INSTALLATION.</p> <p>8. PAVEMENT REMOVAL LIMITS MAY BE ADJUSTED IN THE FIELD TO ACCOMMODATE CONSTRUCTION METHODS. REMOVAL LIMITS SHALL BE MARKED IN THE FIELD BY THE CONTRACTOR AND CITY CONSTRUCTION INSPECTOR PRIOR TO COMMENCING DEMOLITION ACTIVITIES.</p>	
	PROPERTY LINE			SPRINKLER HEAD		POWER POLE		DIAMOND DETECTOR 6X8	&	AND	MAX	MAXIMUM		
	EASEMENT LINE			SPRINKLER CONTROL BOX		POWER VAULT (UNDERGROUND)		SQUARE DETECTOR 6X6	@	AT	MB	MAILBOX		
	RIGHT OF WAY			FIRE HYDRANT		POWER VAULT (ABOVE GROUND)		CIRCLE DETECTOR 6"	CL	CENTERLINE	MED	MEDIUM		
	CENTER LINE			GATE VALVE		POLE ANCHOR		VIDEO CAMERA	PL	PROPERTY LINE	MEMB	MEMBRANE		
	TEMPORARY CONSTRUCTION PERMIT LINE			CROSS				EV INDICATOR LIGHTS	%	PERCENT	MET	METAL		
				TEE				PED. PUSHBUTTON (1)	#	NUMBER	MFR	MANUFACTURER		
				REDUCER				TENON	Ø	DIAMETER	MH	MANHOLE		
				WATER METER				PEDESTRIAN SIGNAL HEAD			MIN	MINIMUM		
								TRAFFIC SIGNAL POLE			MISC	MISCELLANEOUS		
								VEHICLE SIGNAL HEAD			MON	MONUMENT		
								VEHICLE SIGNAL HEAD W/ARROW INDICATOR			N	NORTH		
								OVERHEAD SIGN ASSEMBLY			NTS	NOT TO SCALE		
								TRAFFIC CONTROL SIGN			OC	ON CENTER		
								SIGN			OD	OUTSIDE DIAMETER		
								SIGNAL CONTROLLER CABINET			OPP	OPPOSITE		
								JUNCTION BOX			PA	PLANTING AREA		
								JUNCTION BOX (LARGE)			PAT	PATTERN		
								UTILITY POLE			PC	POINT OF CURVATURE		
								UTILITY POLE W/LIGHT			PG	POINT OF BEGINNING		
								STREET LIGHT ON FOUNDATION			PB	POINT OF CONNECTION		
								ORNAMENTAL POST TOP			PPB	PEDESTRIAN PUSHBUTTON		
											PROP	PROPOSED		
											PS	PEDESTRIAN SIGNAL		
											PT	POINT OF TANGENCY		
											PVC	POINT OF VERTICAL CURVE		
											PVI	POINT OF VERTICAL INTERSECTION		
											PVT	POINT OF VERTICAL TANGENCY		
											R	RADIUS		
											RCA	RECYCLED CONC AGGREGATE		
											REIN	REINFORCED		
											REPL	REPLACE		
											REQD	REQUIRED		
											RIM	RIM ELEVATION		
											RT	RIGHT OF WAY		
											S	SOUTH		
											SAN	SANITARY SEWER		
											SF	SQUARE FEET		
											SHT	SHEET		
											SQ	SQUARE		
											SQCS	SPECIFICATIONS		
											STA	STATION		
											STL	STEEL		
											STM	STORM SEWER		
											TEL	TELEPHONE		
											TELECOM	TELECOMMUNICATIONS		
											TEMP	TEMPORARY		
											TJ	TOOLED JOINT		
											TS	TRAFFIC SIGNAL CONDUIT		
											TSFO	TOP OF SLOPE		
											TSFO	TRAFFIC SIGNAL CONDUIT		
											TV	CABLE TELEVISION		
											TW	TOP OF WALL		
											TYP	TYPICAL		
											VERT	VERTICAL		
											W	WEST, WATER		
											WI	WITH		
											WID	WITHOUT		
											WPF	WATERPROOF		
											WWM	WELDED WIRE MESH		

INDEX LEGEND

- DEMOLITION PLAN AND TESC
- SIDE SEWER PLAN AND PROFILE
- ROAD PLAN & PROFILE, ROW & RESTORATION PLAN
- PRIVATE IMPROVEMENT RESTORATION PLAN



SURVEY CONTROL	
CONTROL FILE	
ENV-04018-08-05	
KE34MCKINLEY.CSV	



McKINLEY ROAD ALIGNMENT LINE TABLE

LINE NO.	LENGTH	DIRECTION	START POINT	END POINT
L1	419.91'	N82°38'49"E	N: 698571.28 E: 1163384.53	N: 698625.02 E: 1163800.98
L2	80.00'	N82°38'22"E	N: 698625.02 E: 1163800.98	N: 698635.27 E: 1163880.32
L3	447.71'	N82°38'53"E	N: 698635.27 E: 1163880.32	N: 698692.56 E: 1164324.36

E. WRIGHT AVENUE ALIGNMENT LINE TABLE

LINE NO.	LENGTH	DIRECTION	START POINT	END POINT
L4	605.73'	N82°39'19"E	N: 698348.08 E: 1163413.94	N: 698425.52 E: 1164014.70

EAST "I" STREET ALIGNMENT LINE TABLE

LINE NO.	LENGTH	DIRECTION	START POINT	END POINT
L5	120.09'	N7°21'40"W	N: 698273.93 E: 1163503.61	N: 698393.03 E: 1163488.22
L6	100.00'	N7°21'39"W	N: 698393.03 E: 1163488.22	N: 698492.21 E: 1163475.41
L7	177.46'	N7°21'39"W	N: 698492.21 E: 1163475.41	N: 698668.20 E: 1163452.67

E "J" ST ALIGNMENT LINE TABLE

LINE NO.	LENGTH	DIRECTION	START POINT	END POINT
L8	83.00'	N7°21'12"W	N: 698630.75 E: 1163845.37	N: 698713.07 E: 1163834.75

E "K" ST ALIGNMENT LINE TABLE

LINE NO.	LENGTH	DIRECTION	START POINT	END POINT
L9	87.23'	N7°21'18"W	N: 698678.79 E: 1164217.63	N: 698765.30 E: 1164206.46

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Tacoma, WA 98402 253.627.0720
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CITY OF TACOMA
Horizontal Datum
N.A.D. 83/91
Vertical Datum
N.G.V.D. 29

NO.	REVISION	DATE	APPD.

FINAL CONSTRUCTION CHECKED	DATE	SCALE
	05/24	1"=40'

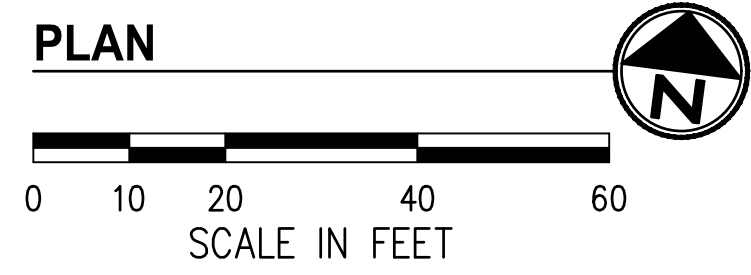
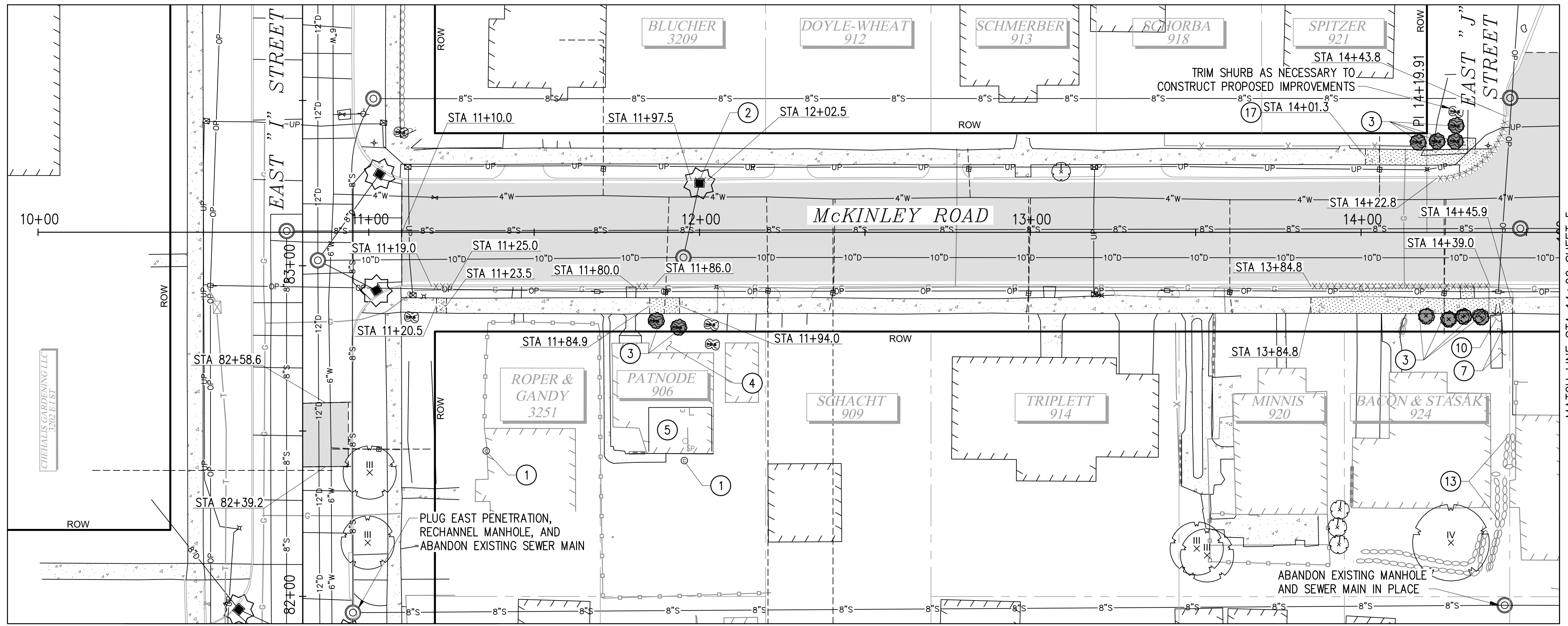
DESIGNED	CHECKED
EH	NIM

DRAWN	PROJECT NAME
EH	WWSS-MCKIN

CITY OF TACOMA
ENVIRONMENTAL SERVICES DEPARTMENT
WASTEWATER SIDE SEWER IMPROVEMENTS MCKINLEY ROAD
ALIGNMENT & SURVEY CONTROL DATA

SPEC. NO.	ES24-0034F
WBS NO.	ENV-04018-08 PWK-00438-46
SHEET NO.	3 OF 37

DATE: 04/20/24 2:42 PM PATH: K:\TACOMA\17042-DRAFTING SUPPORT CIP\17042\M\10\MCKINLEY\CONTRACT DWGS\SHEETFILES FILE: ENV\4018-08-05 PS SITE PREP LAYOUT.SP (1) STA 10+00 TO STA 14+60



GENERAL NOTES

1. PRESERVE AND PROTECT ALL IMPROVEMENTS, STRUCTURES, AND VEGETATION NOT MARKED FOR REMOVAL.
2. THIS PLAN WAS PREPARED FOR THE CONTRACTOR'S REFERENCE IN LOCATING, PROTECTING, AND AVOIDING CONFLICTS WITH EXISTING UTILITIES AND IMPROVEMENTS. IT IS BASED ON THE BEST AVAILABLE INFORMATION WITHOUT POTHOLING AND IS NOT INTENDED TO BE A COMPLETE RECORD. CONTRACTOR IS RESPONSIBLE FOR INDEPENDENTLY VERIFYING THE LOCATIONS OF ALL UTILITIES AND IMPROVEMENTS PRIOR TO CONSTRUCTION.
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CONSTRUCTION NOTES

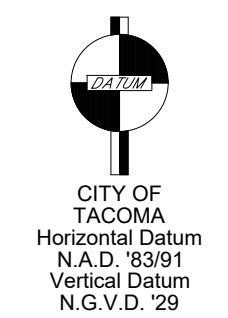
- ① REMOVE CLEANOUT AND ABANDON/PLUG PIPE 3 FT BELOW GRADE.
- ② REMOVE AND REPLACE CB FRAME & GRATE.
- ③ REMOVE, SALVAGE, & PROTECT SHRUBS/TREES.
- ④ COORDINATE WITH INSPECTOR IN FIELD TO REMOVE, SALVAGE, & PROTECT LAWN ORNAMENTS/ART.
- ⑤ SEWER WILL BE RE-ROUTED INTERNALLY WITHIN CRAWLSPACE. SEE SIDE SEWER PLAN & PROFILE SHEET FOR ADDITIONAL INFORMATION REGARDING DEMOLITION INSIDE RESIDENCE.
- ⑦ PRESERVE & PROTECT PLANTER.
- ⑩ REMOVE, SALVAGE, & PROTECT LANDSCAPE BORDER.
- ⑬ REMOVE, SALVAGE, & PROTECT ROCKERY.
- ⑰ REMOVE, SALVAGE, & PROTECT CHAIN LINK FENCE.

LEGEND

- EXISTING CEMENT CONCRETE SIDEWALK
- REMOVE CEMENT CONCRETE (TYPE II, CLASS C6)
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- REMOVE ASPHALT (TYPE II, CLASS A4)
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- FULL DEPTH SAWCUT
- INLET PROTECTION
- REMOVE TREE/SHRUB

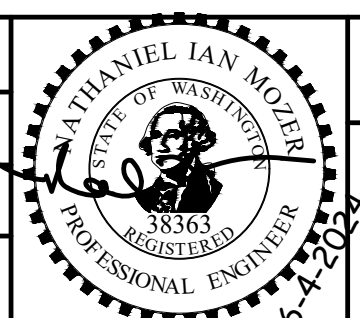
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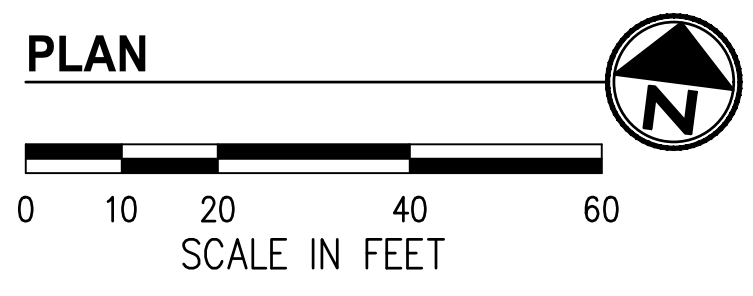
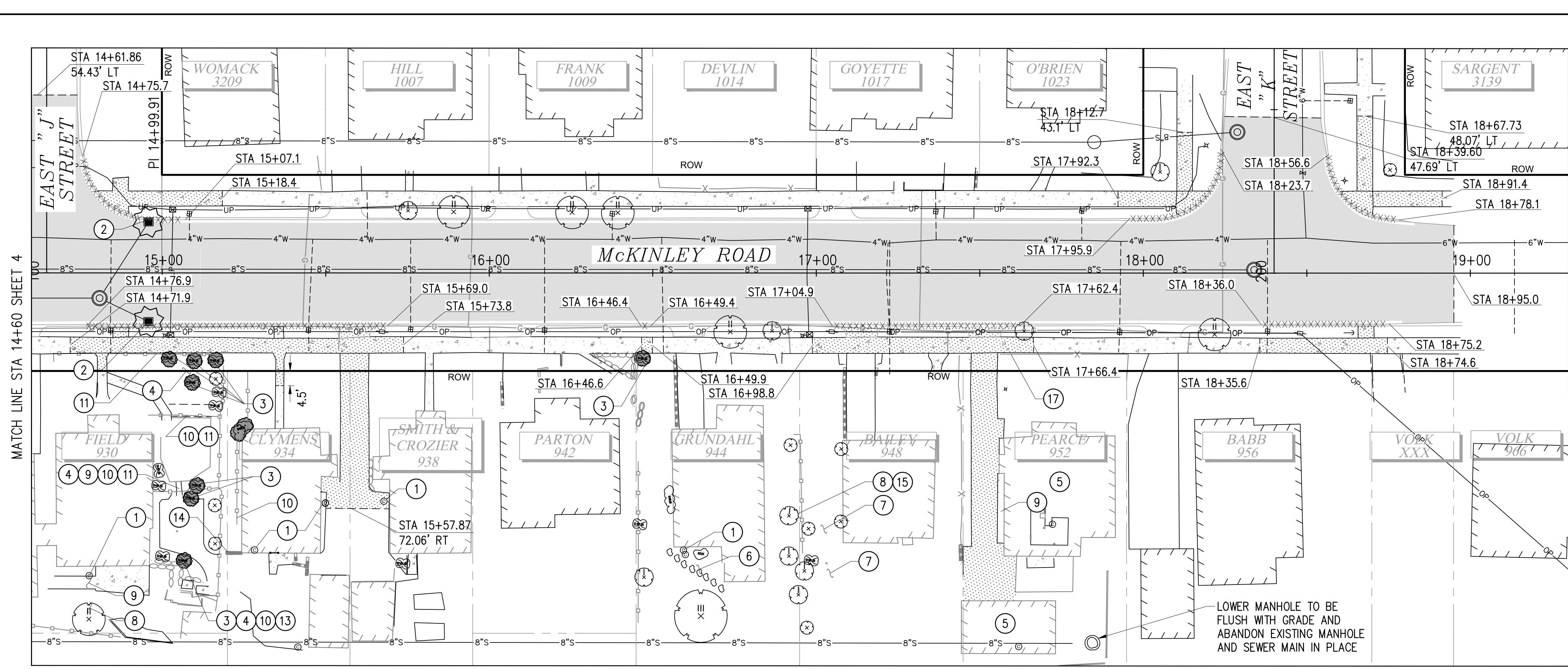
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DRAWN: EH	DRAWING NAME: ENV-04018-08-05 PS Site Prep.dwg	



CITY OF TACOMA
ENVIRONMENTAL SERVICES DEPARTMENT
WASTEWATER SIDE SEWER IMPROVEMENTS MCKINLEY ROAD
DEMOLITION PLAN & TESC
STA 10+00 TO STA 14+60

SPEC. NO.	ES24-0034F
PROJ. NO.	ENV-04018-08
SHEET NO.	PWK-00438-46
SHEET	4 OF 37

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GENERAL NOTES

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CONSTRUCTION NOTES

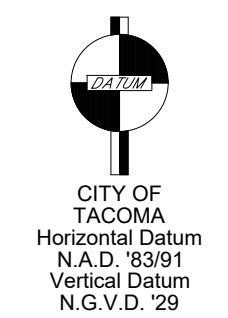
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- ③ REMOVE, SALVAGE, & PROTECT SHRUBS/TREES.
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- ⑥ REMOVE, SALVAGE, & PROTECT FLAG STONE(S).
- ⑦ PRESERVE & PROTECT PLANTER.
- ⑧ PRESERVE & PROTECT TREE ROOTS. HAND EXCAVATE PRIOR TO SIDE SEWER EXCAVATION PER THE ARBORIST'S RECOMMENDATIONS.
- ⑨ REMOVE, SALVAGE, & PROTECT BRICK PAVERS.
- ⑩ REMOVE, SALVAGE, & PROTECT LANDSCAPE BORDER.
- ⑪ REMOVE, SALVAGE, & PROTECT WOOD FENCE & GATE.
- ⑬ REMOVE, SALVAGE, & PROTECT ROCKERY.
- ⑭ REMOVE AND DISPOSE OF CONC RETAINING WALL.
- ⑮ PRESERVE & PROTECT TREE/SHRUB.
- ⑰ REMOVE, SALVAGE, & PROTECT CHAIN LINK FENCE.

LEGEND

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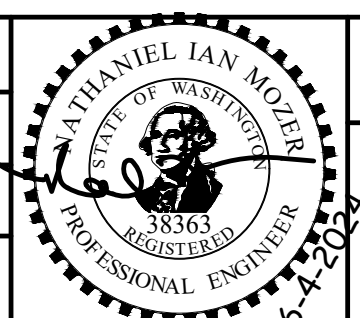
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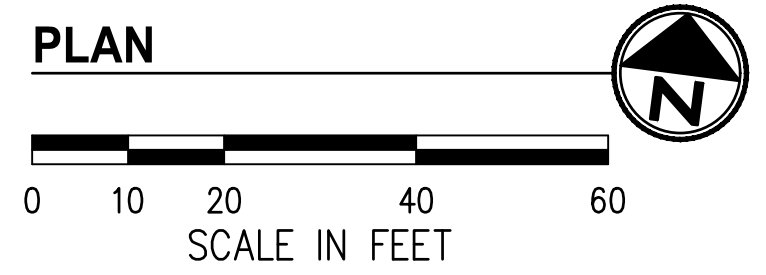
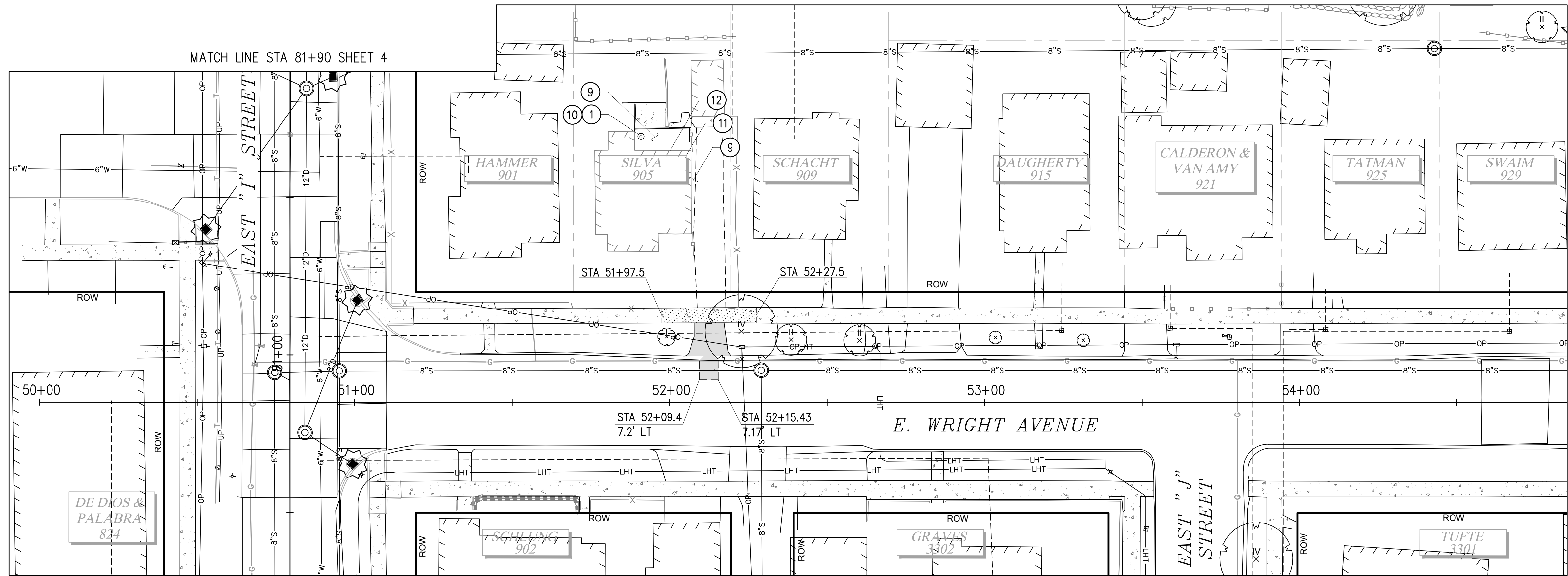
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CHECKED	EH	NIM
DRAWN	EH	PROJECT NAME
DATE		WWSS-MCKIN
FIELD BOOKS	DRAWING NAME	
	ENV-04018-08-05 PS Site Prep.dwg	



CITY OF TACOMA
ENVIRONMENTAL SERVICES DEPARTMENT
WASTEWATER SIDE SEWER IMPROVEMENTS MCKINLEY ROAD
DEMOLITION PLAN & TESC
STA 14+60 TO STA 19+30

SPEC. NO.	ES24-0034F
RBS NO.	ENV-04018-08
SHEET NO.	PWK-00438-46
SHEET	5 OF 37

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CONSTRUCTION NOTES

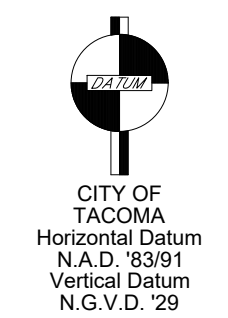
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- ⑩ REMOVE, SALVAGE, & PROTECT LANDSCAPE BORDER.
- ⑪ REMOVE, SALVAGE, & PROTECT WOOD FENCE & GATE.
- ⑫ REMOVE, SALVAGE, & PROTECT WOODEN STEPS.

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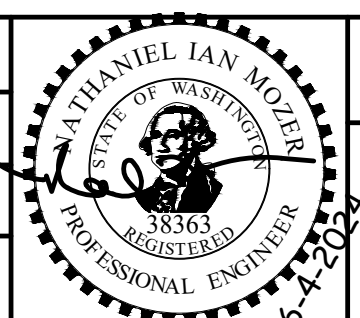
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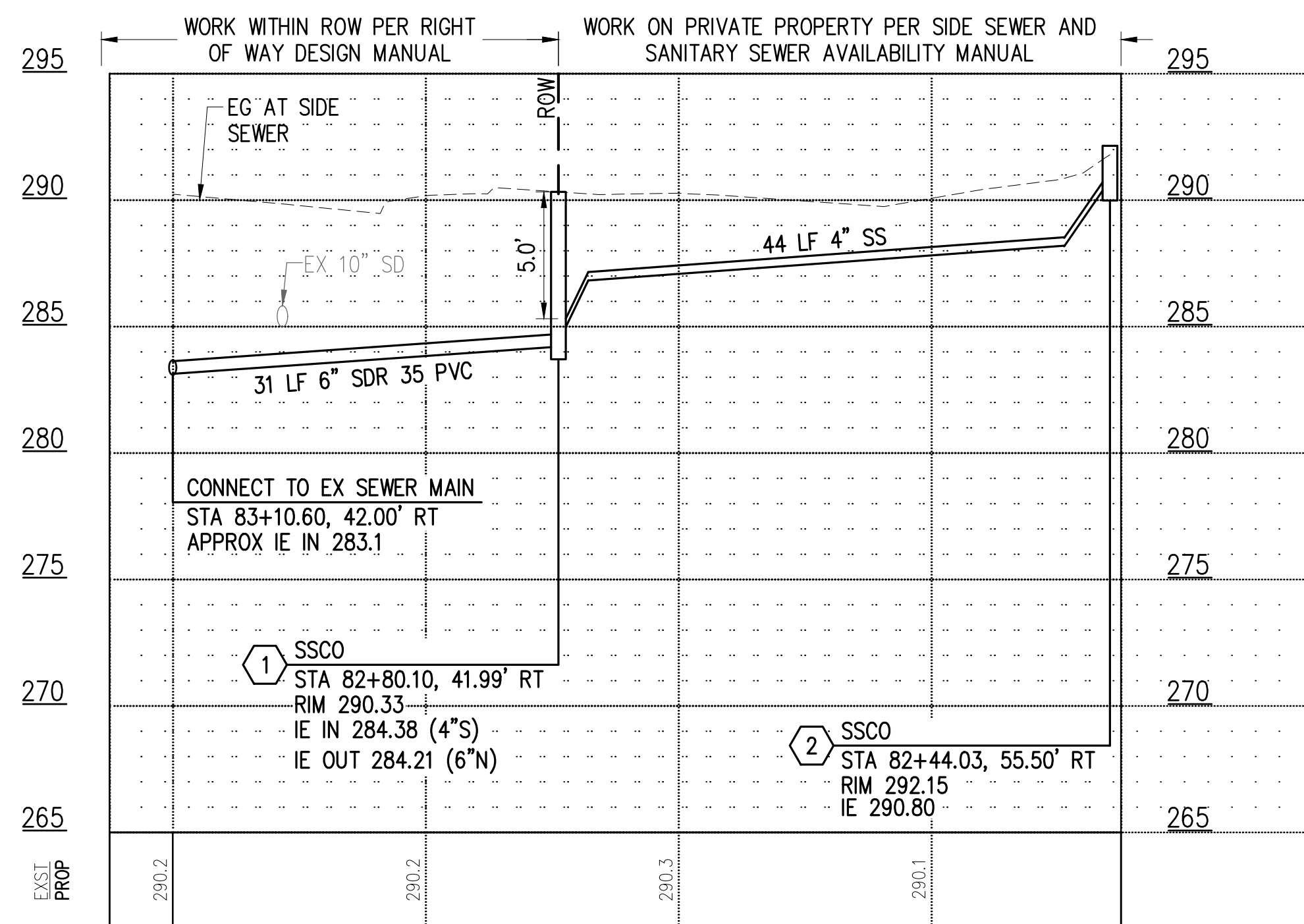
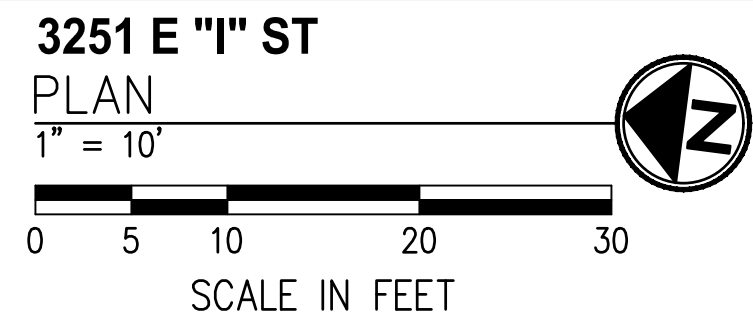
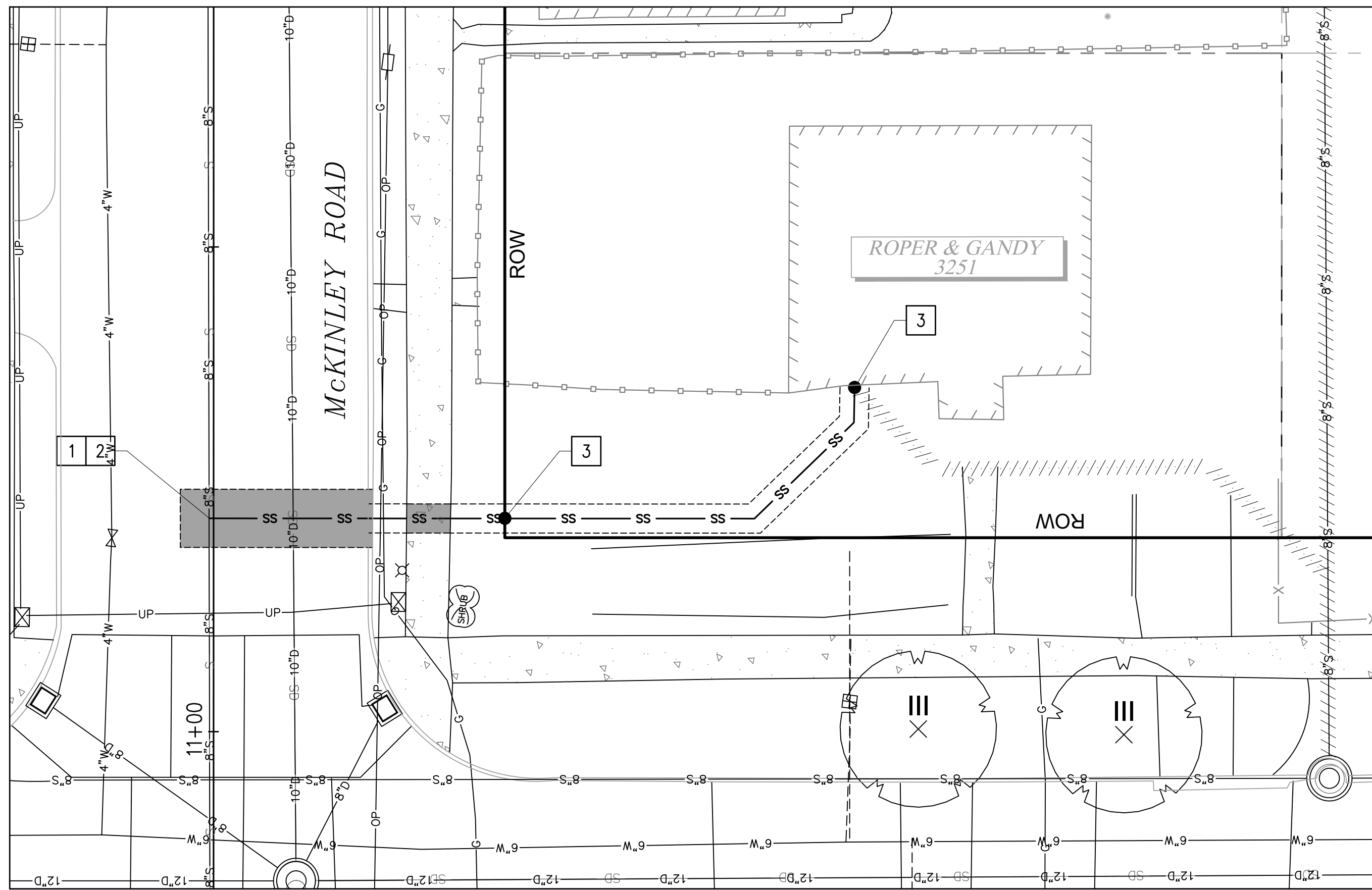
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FINAL CONSTRUCTION CHECKED	DATE	SCALE
BY	05/24	1"=20'
DATE	EH	NIM
FIELD BOOKS	DRAWN	PROJECT NAME
	EH	WWSS-MCKIN
	DRAWING NAME	
	ENV-04018-08-05 PS Site Prep.dwg	



CITY OF TACOMA
ENVIRONMENTAL SERVICES DEPARTMENT
WASTEWATER SIDE SEWER IMPROVEMENTS MCKINLEY ROAD
DEMOLITION PLAN & TESC
STA 50+00 TO STA 54+85

SPEC. NO.	ES24-0034F
WBS NO.	ENV-04018-08 PWK-00438-46
SHEET NO.	6 OF 37



SIDE SEWER PROFILE
HOR: 1"=10' VER: 1"=5'

CONSTRUCTION NOTES

- 1 CONNECT TO EXISTING SEWER MAIN PER COT STANDARD PLAN SU-23.
- 2 CONSTRUCT PVC SIDE SEWER PER THE COT SIDE SEWER AND SANITARY SEWER AVAILABILITY MANUAL.
- 3 CONSTRUCT CLEANOUT PER COT STANDARD PLAN SU-24.

LEGEND

- TEMPORARY HMA PATCH PER DETAIL 2, SHEET 37
- TEMPORARY CSTC TRENCH PATCH PER DETAIL 3, SHEET 37
- SIDE SEWER
- SS CLEANOUT
- SS CLEANOUT NUMBER

SIDE SEWER CONSTRUCTION STANDARDS

1. PIPE SIZE SHALL BE A MINIMUM OF 6" WITHIN ROW AND MINIMUM OF 4" ON PRIVATE PROPERTY.
2. SIDE SEWER MINIMUM PIPE SLOPE IS 2.0%.
3. SIDE SEWERS SHALL HAVE A MINIMUM DEPTH OF 5' AT THE ROW LINE.
4. CLEANOUTS SHALL BE REQUIRED AT THE FOLLOWING LOCATIONS:
 - APPROXIMATELY 2' FROM THE BUILDING AT THE CHANGE FROM BUILDING DRAIN TO SIDE SEWER.
 - EVERY 135 DEGREES OF TOTAL BEND (INCLUDING HORZ. AND VERT.).
 - EVERY 100' OF PIPE RUN.
 - EVERY CHANGE OF PIPE SIZE.
 - AT THE PROPERTY LINE.
5. PIPE SHALL HAVE MINIMUM DEPTH OF COVER OF 3' IN DRIVING AREAS.

GENERAL NOTES

1. THE HORIZONTAL AND VERTICAL SIDE SEWER CONFIGURATION SHOWN ON THIS SHEET IS APPROXIMATE BASED ON THE INFORMATION AVAILABLE DURING DESIGN. THE CONTRACTOR MAY, WITH THE APPROVAL OF THE CONSTRUCTION INSPECTOR, ADJUST THE SIDE SEWER ALIGNMENT AS NEEDED TO BETTER ACCOMMODATE CONSTRUCTION METHODS AND CONDITIONS EXPERIENCED DURING CONSTRUCTION.
2. ALL EXISTING UTILITY INFORMATION INCLUDING MATERIAL, DEPTH, AND LOCATION ARE BASED ON AVAILABLE INFORMATION WITHOUT POTHOLING AND IS SOLELY FOR THE CONTRACTOR'S BENEFIT. INVERT ELEVATIONS FOR UTILITY CROSSINGS SHOWN ON PROFILES ARE ESTIMATED BASED ON RECORD DRAWINGS, GIS, OR OTHER DATA AND MAY NOT BE ACCURATE. INVERT ELEVATIONS FOR SOME UTILITY CROSSINGS ARE NOT AVAILABLE; THESE UTILITIES ARE SHOWN ON THE PROFILES IN THEIR APPROX. HORIZONTAL LOCATION TO ALERT THE CONTRACTOR OF THEIR EXISTENCE. THE CONTRACTOR SHALL POTHOLE UTILITY CROSSINGS & CONNECTION POINTS AT THE LOCATIONS SPECIFIED HEREIN A MINIMUM OF 5 WORKING DAYS PRIOR TO BEGINNING UTILITY IMPROVEMENTS TO VERIFY HORIZONTAL/VERTICAL LOCATION AND MATERIAL. CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IN THE EVENT OF CONFLICT.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING ALL PIPE AND FITTINGS REQUIRED TO REALIGN PLUMBING WITHIN EXISTING BASEMENTS/CRAWL SPACES WHERE SPECIFIED ON THE PLANS.
4. SIDE SEWERS WITHIN 10' HORIZONTALLY OR 18" VERTICALLY OF EXISTING WATER SERVICE SHALL BE CONSTRUCTED WITH C900 PVC SEWER PIPE.
5. THE EXISTING SIDE SEWER PIPE MATERIAL(S) IS UNKNOWN. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXISTING PIPE MATERIALS AND PROVIDING AN APPROPRIATE COUPLING TO TRANSITION FROM EXISTING TO PROPOSED SIDE SEWER PIPE.
6. CONSTRUCTION MAY REQUIRE EXCAVATION WITHIN 10 FEET OF UTILITY POLES. WHERE ANTICIPATED, CONTRACTOR SHALL CONTACT TACOMA POWER (253) 502-8991 AT LEAST 2 WEEKS IN ADVANCE OF ANY CONSTRUCTION ACTIVITY WITHIN 10 FEET OF AN EXISTING POLE TO COORDINATE AN ONSITE VISIT WITH A TPU FIELD INSPECTOR. SEE SPECIAL PROVISION SECTION 1-07.17 FOR ADDITIONAL DETAIL AND REQUIREMENTS.
7. CONSTRUCTION WILL REQUIRE EXCAVATION IMMEDIATELY ADJACENT TO EXISTING BUILDING AND STRUCTURES, THE MAJORITY OF WHICH WERE CONSTRUCTED IN THE 1920'S. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PRESERVE AND PROTECT ALL BUILDINGS AND STRUCTURES AND TO MAKE SURE CONSTRUCTION METHODS, SHORING METHODS, AND COMPACTION METHODS ARE APPROPRIATE GIVEN THE LOCATION OF THE CONSTRUCTION AREA.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING EXISTING UTILITIES ON PRIVATE PROPERTY.

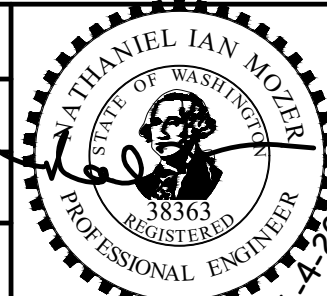
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CALL 2 DAYS BEFORE YOU DIG
1-800-424-5555

BID DOCUMENT



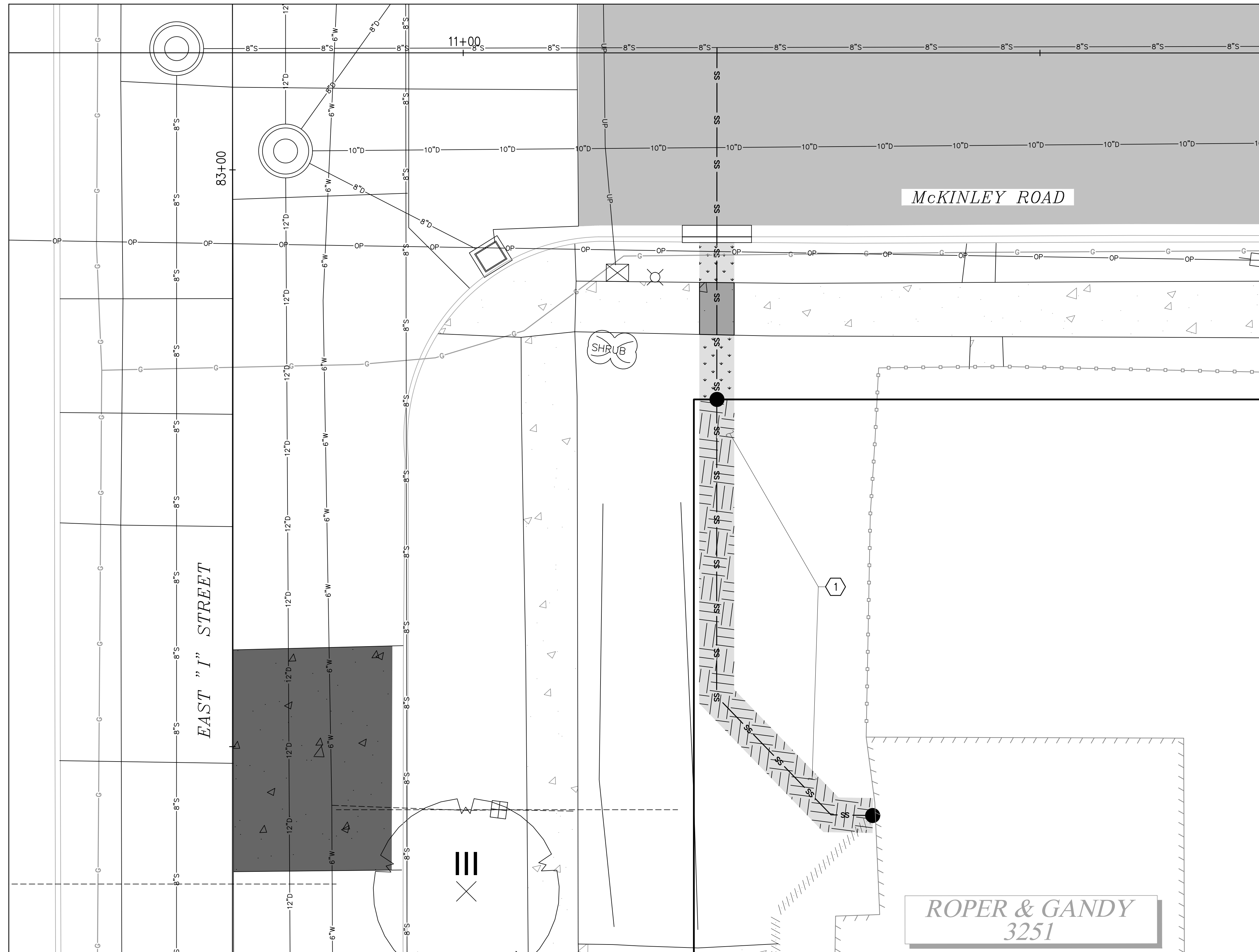
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DRAWING NAME	DRAWING NAME	ENV-04018-08-05 Side Sewers 01.dwg																



CITY OF TACOMA
ENVIRONMENTAL SERVICES DEPARTMENT
WASTEWATER SIDE SEWER IMPROVEMENTS MCKINLEY ROAD
SIDE SEWER PLAN + PROFILE & TEMPORARY RESTORATION PLAN
3251 - EAST I STREET

SPEC. NO.	ES24-0034F
WBS NO.	ENV-04018-08 PWK-00438-46
SHEET NO.	7 OF 37

DATE: 04/20/24 2:44 PM PATH: K:\TACOMA\17042-DRAFTING SUPPORT\017042\17042\MCKINLEY\CONTRACT DWG\SS\SSHEETS\FILES FILE: 948 MCKINLEY ROAD_LAYOUT.PRIV IMP (1.3251) - E I STREET



**3251 E "I" ST
PLAN**

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SCALE IN FEET

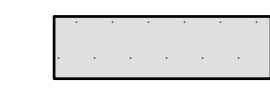
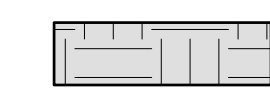
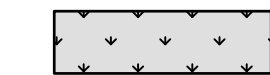
GENERAL NOTES

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2. FOR RESTORATION WITHIN ROW SEE SHEETS 29-31.

CONSTRUCTION NOTES

- 1 RESTORE LAWN PER RESTORATION TABLE, SHEET 37.

LEGEND

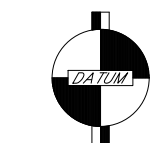
-  HARD SURFACE RESTORATION ON PRIVATE PROPERTY, SEE NOTES, THIS SHEET
-  SOFT SURFACE RESTORATION ON PRIVATE PROPERTY, SEE NOTES, THIS SHEET
-  PLANTER STRIP/LAWN WITHIN ROW

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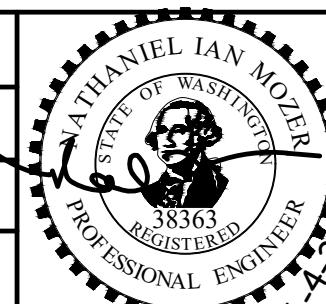


CITY OF
TACOMA
Horizontal Datum
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Vertical Datum
N.G.V.D. 29



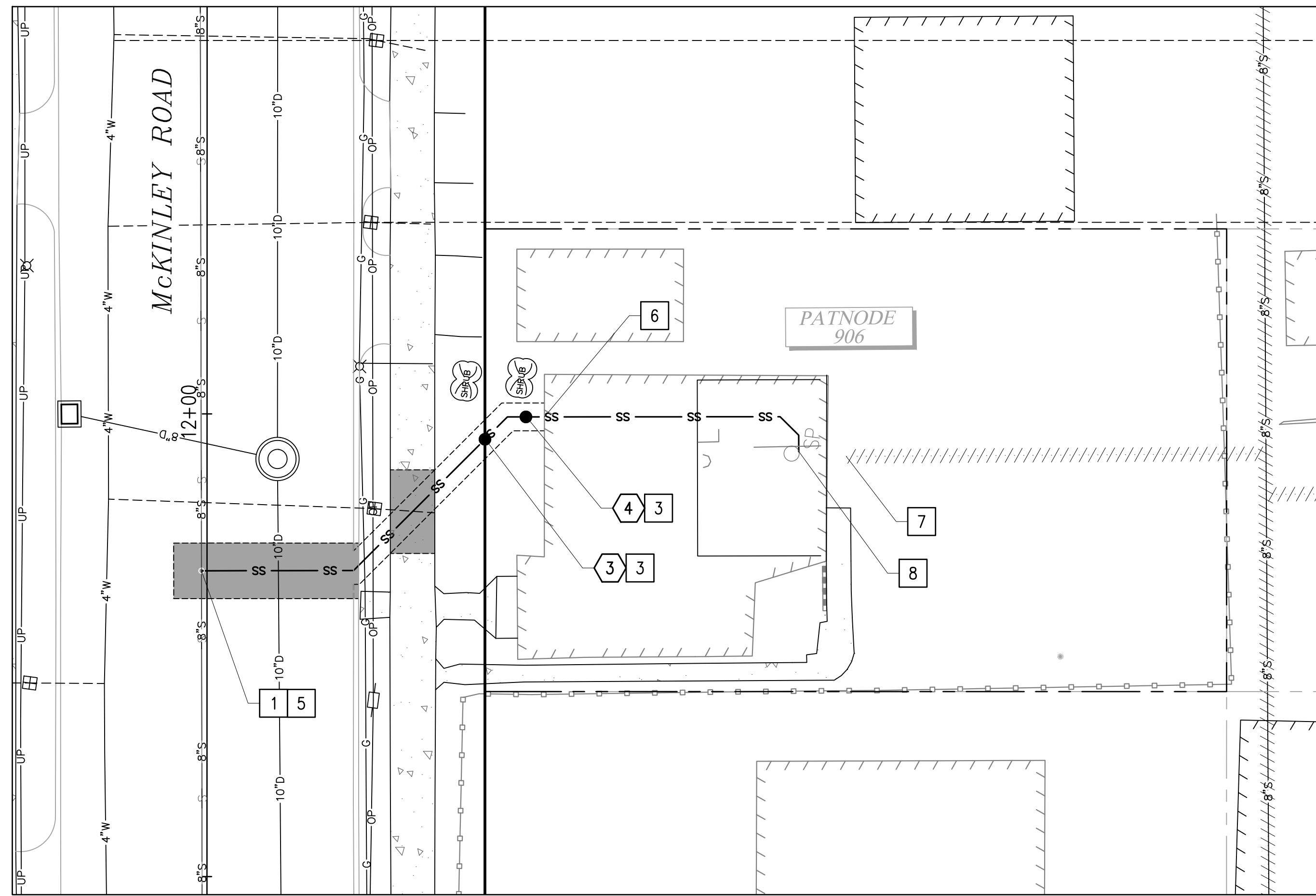
NO	REVISION	DATE	APPD

FINAL CONSTRUCTION CHECKED	DATE	SCALE
DESIGNED	05/24	1"=5'
BY	EH	CHECKED
DATE	EH	NIM
FIELD BOOKS	DRAWN	PROJECT NAME
	EH	WWSS-MCKIN
	DRAWING NAME	
	948 McKinley Road.dwg	



CITY OF TACOMA
ENVIRONMENTAL SERVICES DEPARTMENT
WASTEWATER SIDE SEWER IMPROVEMENTS MCKINLEY ROAD
PRIVATE IMPROVEMENT RESTORATION PLAN
3251 - EAST I STREET

SPEC. NO.	ES24-0034F
WBS NO.	ENV-04018-08 PWK-00438-46
SHEET NO.	8
OF	37



**906 MCKINLEY RD
PLAN**

1" = 10'



SCALE IN FEET

CONSTRUCTION NOTES

- 1 CONNECT TO EXISTING SEWER MAIN PER COT STANDARD PLAN SU-23.
- 3 CONSTRUCT CLEANOUT PER COT STANDARD PLAN SU-24.
- 5 CONSTRUCT C900 PVC SIDE SEWER PER THE COT SIDE SEWER AND SANITARY AVAILABILITY MANUAL.
- 6 CORE THROUGH EXISTING FOUNDATION AND INSTALL APPROPRIATELY SIZED LINK SEAL TO PROVIDE WATER TIGHT PENETRATION.
- 7 REMOVE EXISTING CLEANOUT AND CAP ABANDONED PIPE 3' BELOW GRADE.
- 8 INTERCEPT EXISTING SIDE SEWER AND CAP END OF ABANDONED PIPE.

LEGEND

- TEMPORARY HMA PATCH PER DETAIL 2, SHEET 37
- TEMPORARY CSTC TRENCH PATCH PER DETAIL 3, SHEET 37
- SIDE SEWER
- SS CLEANOUT
- SS CLEANOUT NUMBER

SIDE SEWER CONSTRUCTION STANDARDS

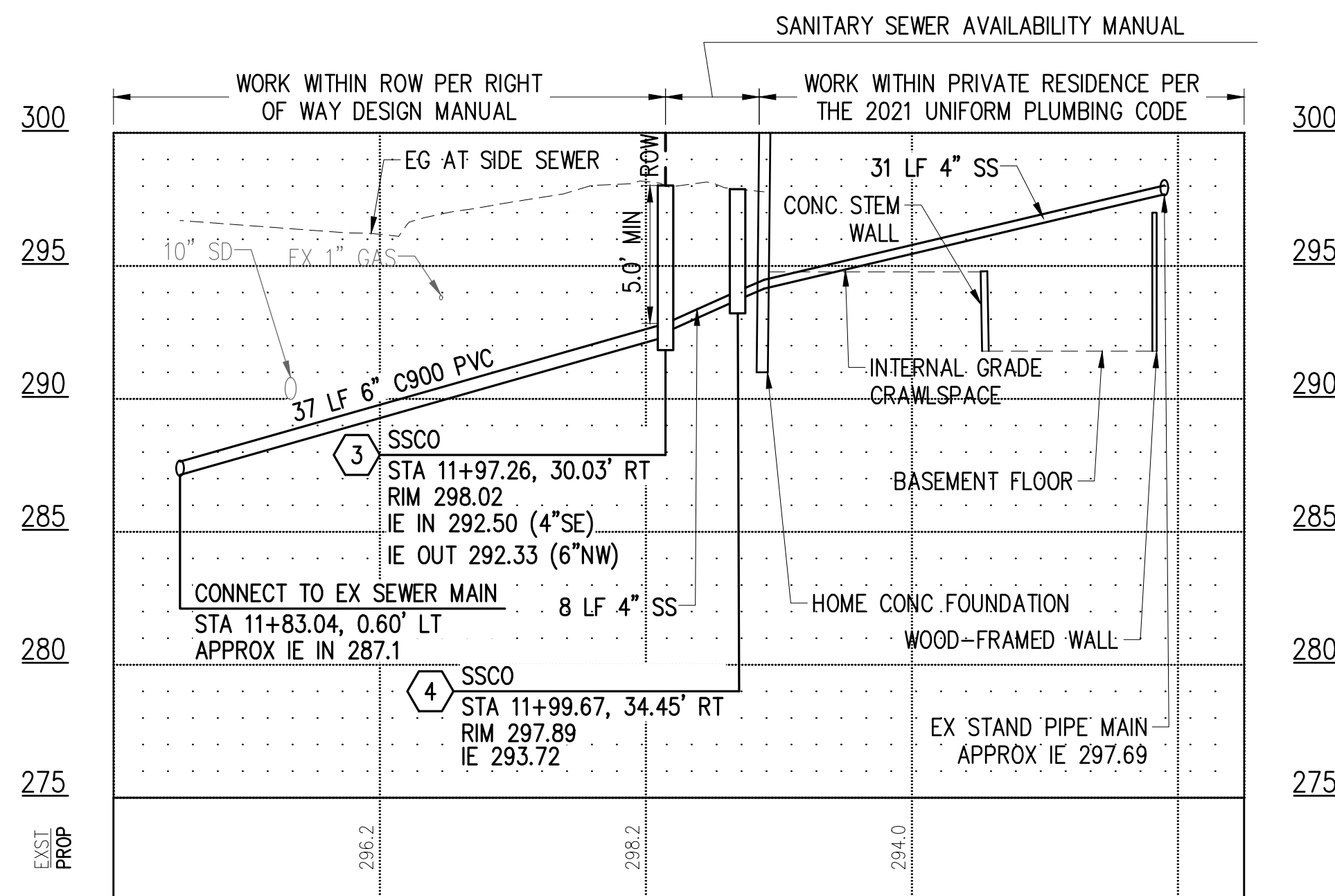
1. PIPE SIZE SHALL BE A MINIMUM OF 6" WITHIN ROW AND MINIMUM OF 4" ON PRIVATE PROPERTY.
2. SIDE SEWER MINIMUM PIPE SLOPE IS 2.0%.
3. SIDE SEWERS SHALL HAVE A MINIMUM DEPTH OF 5' AT THE ROW LINE.
4. CLEANOUTS SHALL BE REQUIRED AT THE FOLLOWING LOCATIONS:
 - APPROXIMATELY 2' FROM THE BUILDING AT THE CHANGE FROM BUILDING DRAIN TO SIDE SEWER.
 - EVERY 135 DEGREES OF TOTAL BEND (INCLUDING HORZ. AND VERT.).
 - EVERY 100' OF PIPE RUN.
 - EVERY CHANGE OF PIPE SIZE.
 - AT THE PROPERTY LINE.
5. PIPE SHALL HAVE MINIMUM DEPTH OF COVER OF 3' IN DRIVING AREAS.

GENERAL NOTES

1. THE HORIZONTAL AND VERTICAL SIDE SEWER CONFIGURATION SHOWN ON THIS SHEET IS APPROXIMATE BASED ON THE INFORMATION AVAILABLE DURING DESIGN. THE CONTRACTOR MAY, WITH THE APPROVAL OF THE CONSTRUCTION INSPECTOR, ADJUST THE SIDE SEWER ALIGNMENT AS NEEDED TO BETTER ACCOMMODATE CONSTRUCTION METHODS AND CONDITIONS EXPERIENCED DURING CONSTRUCTION.
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8. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING EXISTING UTILITIES ON PRIVATE PROPERTY.

NOTES:

1. FINISHED FLOOR ELEVATIONS INTERNAL WITHIN THE HOME SHOWN ON THE PROFILE ARE BASED ON LIMITED SURVEY AND ARE APPROXIMATE.
2. BOTTOM OF FLOOR JOIST ELEVATION IS APPROXIMATELY 298.16'.



SIDE SEWER PROFILE
HOR: 1"=10' VER: 1"=5'

SANITARY SEWER AVAILABILITY MANUAL

WORK WITHIN ROW PER RIGHT OF WAY DESIGN MANUAL

WORK WITHIN PRIVATE RESIDENCE PER THE 2021 UNIFORM PLUMBING CODE

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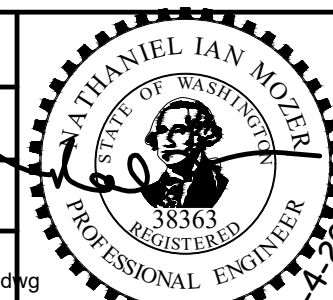


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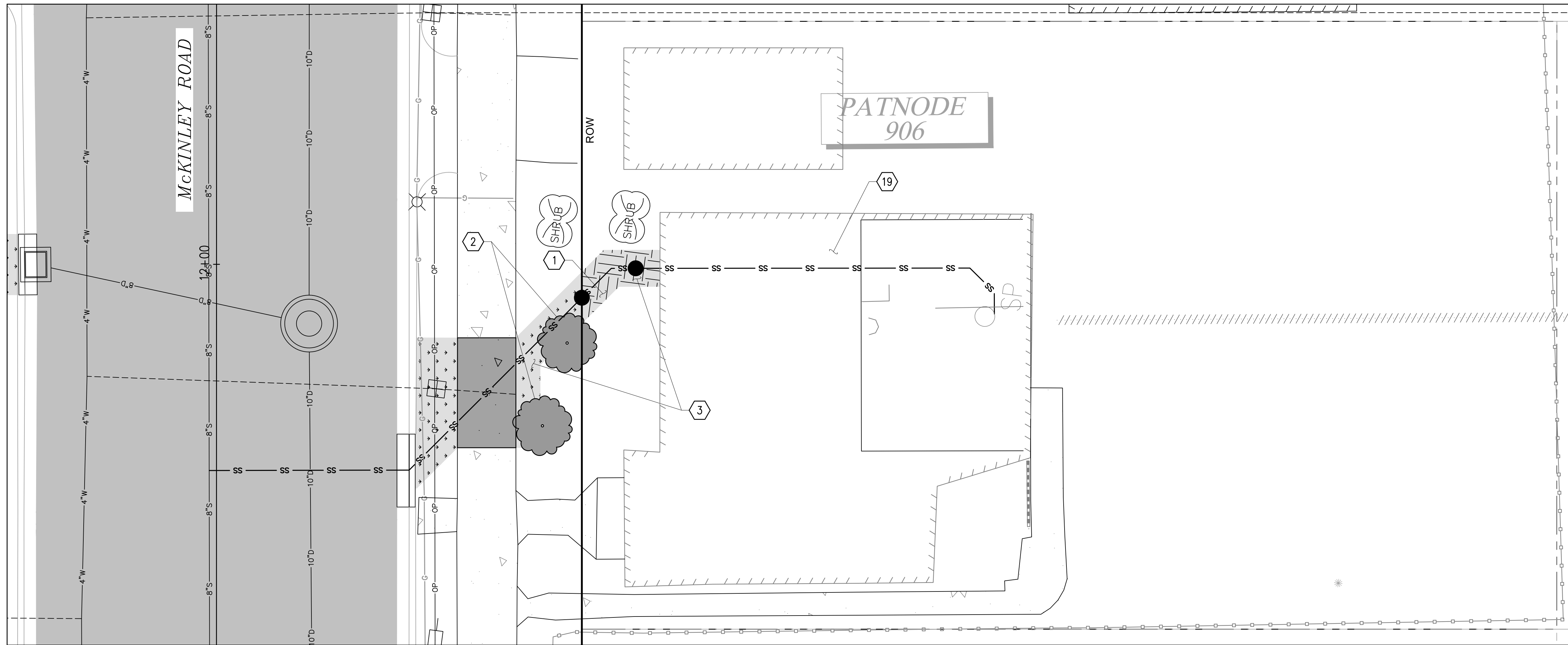
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FINAL CONSTRUCTION CHECKED	DATE: 05/24	SCALE: AS NOTED
DESIGNED	CHECKED	PROJECT NAME: WWSS-MCKIN
DRAWN	DATE	DRAWING NAME: ENV-04018-08-05 PS Side Sewers 02.dwg
FIELD BOOKS		



CITY OF TACOMA
ENVIRONMENTAL SERVICES DEPARTMENT
WASTEWATER SIDE SEWER IMPROVEMENTS MCKINLEY ROAD
SIDE SEWER PLAN + PROFILE & TEMPORARY RESTORATION PLAN
906 MCKINLEY ROAD

SPEC. NO.	ES24-0034F
PROJ. NO.	ENV-04018-08
SHEET NO.	PWK-00438-46
SHEET	9 OF 37



**906 MCKINLEY RD
PLAN**

0 2.5 5 10 15
SCALE IN FEET

LEGEND

- HARD SURFACE RESTORATION ON PRIVATE PROPERTY, SEE NOTES, THIS SHEET
- SOFT SURFACE RESTORATION ON PRIVATE PROPERTY, SEE NOTES, THIS SHEET
- PLANTER STRIP/LAWN WITHIN ROW

GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE DIRECTLY WITH PROPERTY OWNER AND CITY INSPECTOR TO CONFIRM THE LOCATIONS AND TYPES OF MATERIALS TO USE DURING RESTORATION PRIOR TO BEGINNING THE WORK.
2. FOR RESTORATION WITHIN ROW SEE SHEETS 29-31.

CONSTRUCTION NOTES

- ① RESTORE LAWN PER RESTORATION TABLE, SHEET 37.
- ② REPLANT SALVAGED TREE/SHRUB OR REPLACE IN-KIND.
- ③ REINSTALL/REPLACE SALVAGED LAWN ORNAMENTS AND ART.
- ⑱ RESTORE RESIDENCE TO PRECONSTRUCTION CONDITION. REMOVE ALL UNUSED CONSTRUCTION MATERIAL AND DEBRIS.

DATE: 04/20/24 2:45 PM PATH: K:\TACOMA\17042-DRAFTING SUPPORT\01\17042\MCKINLEY\CONTRACT DWG\SHEETFILES FILE: 952 MCKINLEY ROAD_LAYOUT.PRIV IMP 2/19/06 MCKINLEY RD

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BEFORE YOU DIG
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DOCUMENT**

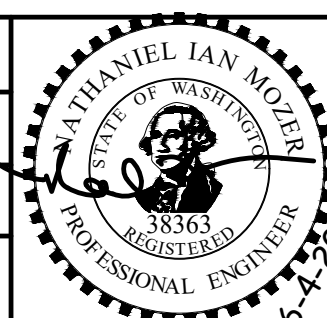


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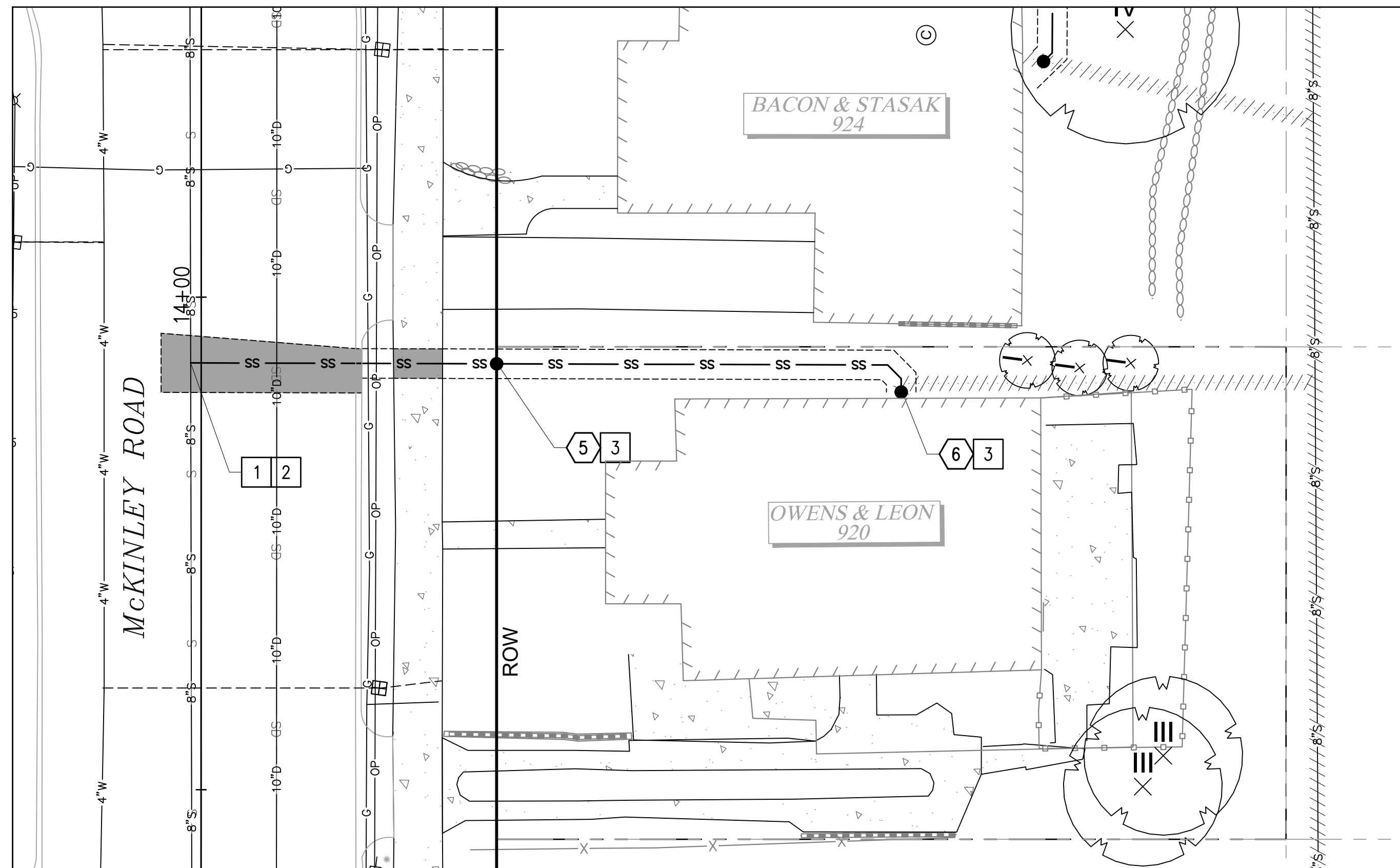
NO	REVISION	DATE	APPD

FINAL CONSTRUCTION CHECKED	DATE	SCALE
DESIGNED	05/24	1"=5'
BY	EH	NIM
DATE	DRAWN	PROJECT NAME
	EH	WWSS-MCKIN
FIELD BOOKS	DRAWING NAME	
	952 McKinley Road.dwg	



CITY OF TACOMA
ENVIRONMENTAL SERVICES DEPARTMENT
WASTEWATER SIDE SEWER IMPROVEMENTS MCKINLEY ROAD
PRIVATE IMPROVEMENT RESTORATION PLAN
906 MCKINLEY ROAD

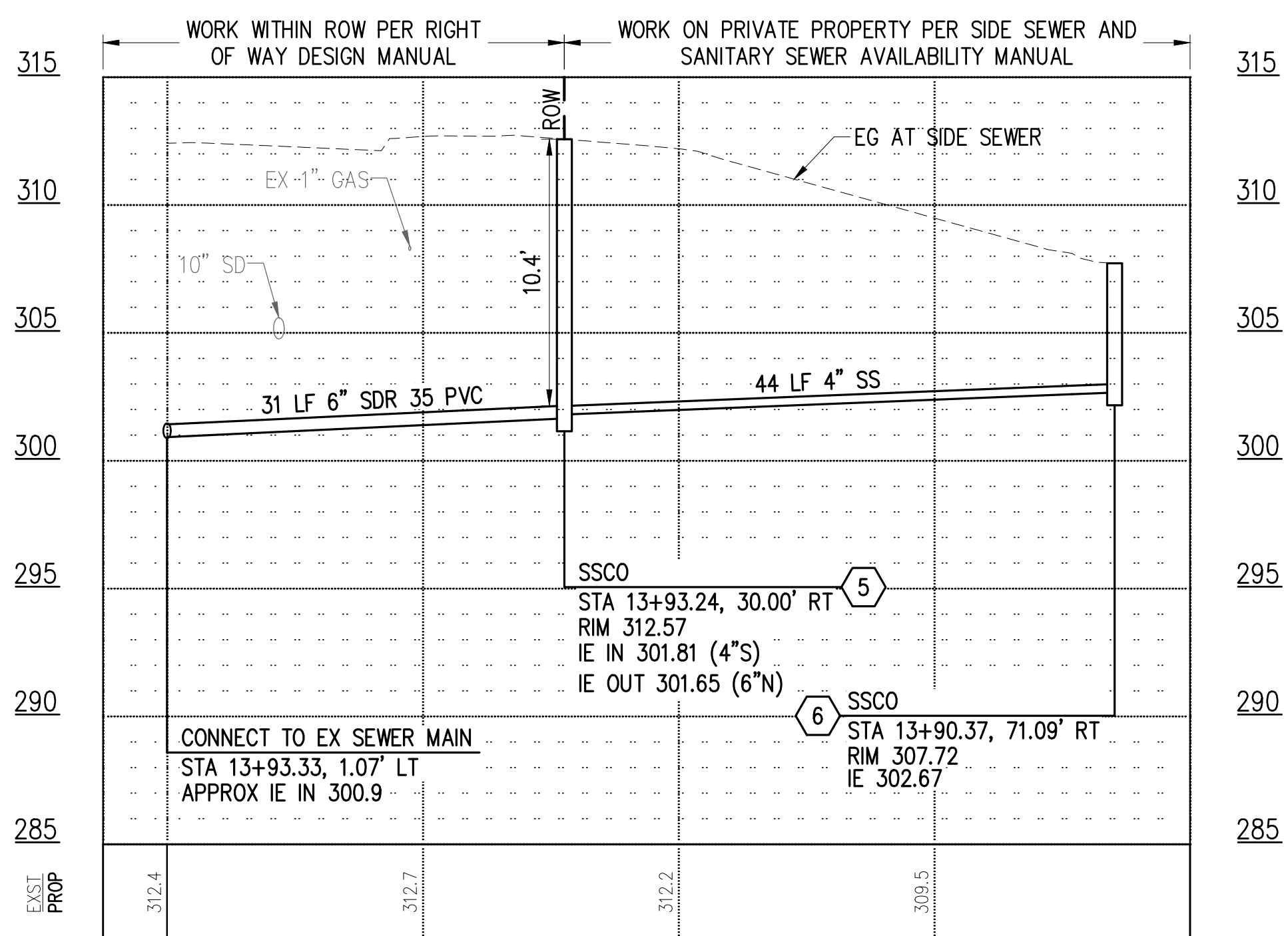
SPEC. NO.	ES24-0034F
WBS NO.	ENV-04018-08 PWK-00438-46
SHEET NO.	10 OF 37



920 MCKINLEY RD

PLAN

1" = 10'



SIDE SEWER PROFILE

HOR: 1"=10' VER: 1"=5'

CONSTRUCTION NOTES

- 1 CONNECT TO EXISTING SEWER MAIN PER COT STANDARD PLAN SU-23.
- 2 CONSTRUCT PVC SIDE SEWER PER THE COT SIDE SEWER AND SANITARY SEWER AVAILABILITY MANUAL.
- 3 CONSTRUCT CLEANOUT PER COT STANDARD PLAN SU-24.

LEGEND

- TEMPORARY HMA PATCH PER DETAIL 2, SHEET 37
- TEMPORARY CSTC TRENCH PATCH PER DETAIL 3, SHEET 37
- SIDE SEWER
- SS CLEANOUT
- SS CLEANOUT NUMBER

SIDE SEWER CONSTRUCTION STANDARDS

1. PIPE SIZE SHALL BE A MINIMUM OF 6" WITHIN ROW AND MINIMUM OF 4" ON PRIVATE PROPERTY.
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5. PIPE SHALL HAVE MINIMUM DEPTH OF COVER OF 3' IN DRIVING AREAS.

GENERAL NOTES

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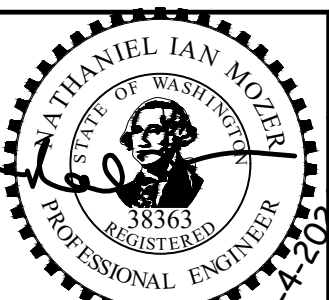
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NO.	REVISION	DATE	APPD.

FINAL CONSTRUCTION CHECKED	DATE	SCALE
DESIGNED	05/24	AS NOTED
DRAWN	EH	NIM
PROJECT NAME	WWSS-MCKIN	

FIELD BOOKS	DRAWING NAME
	ENV-04018-08-05 Side Sewers 01.dwg

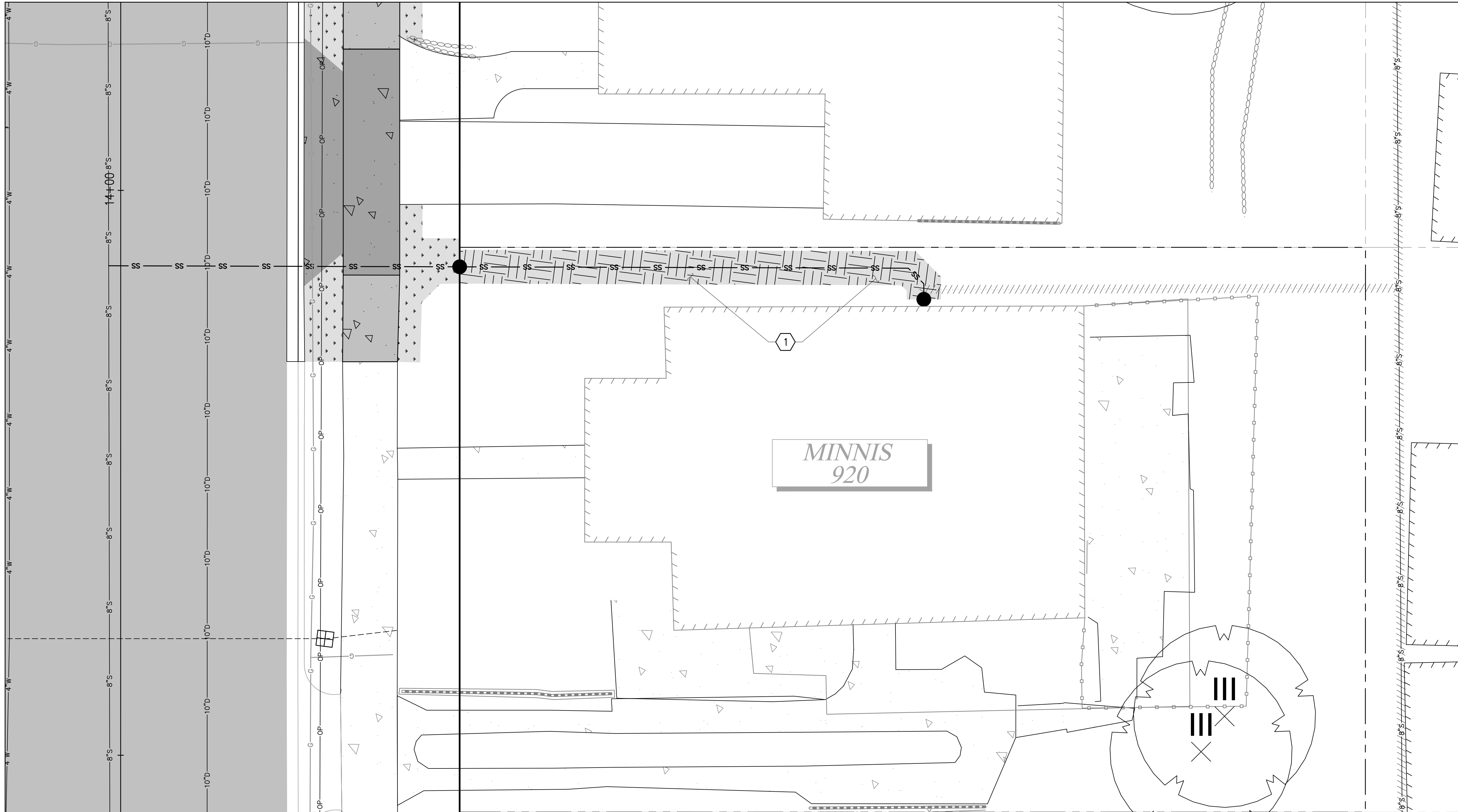


CITY OF TACOMA
ENVIRONMENTAL SERVICES DEPARTMENT
WASTEWATER SIDE SEWER IMPROVEMENTS MCKINLEY ROAD
SIDE SEWER PLAN + PROFILE & TEMPORARY RESTORATION PLAN
920 MCKINLEY ROAD

SPEC. NO.	ES24-0034F
PROJ. NO.	ENV-04018-08
SHEET NO.	PWK-00438-46
SHEET	11 OF 37

DATE: 04/20/24 2:45 PM PATH: K:\TACOMA\17042-DRAFTING SUPPORT\CIP\17042\MCKINLEY\CONTRACT DWGS\SHEETFILES FILE: ENV\04018-08-05 SIDE SEWERS 01 LAYOUT: SS (3) 920 MCKINLEY RD

DATE: 04/20/24 2:46 PM PATH: K:\TACOMA\17042-DRAFTING SUPPORT\01\17042\17042\MCKINLEY\CONTRACT DWG\SS-SHEETFILES FILE: 948 MCKINLEY ROAD_LAYOUT.PRIV IMP (3) 920 MCKINLEY RD




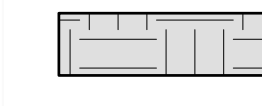
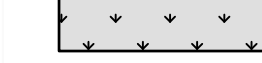
GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE DIRECTLY WITH PROPERTY OWNER AND CITY INSPECTOR TO CONFIRM THE LOCATIONS AND TYPES OF MATERIALS TO USE DURING RESTORATION PRIOR TO BEGINNING THE WORK.
2. FOR RESTORATION WITHIN ROW SEE SHEETS 29-31.

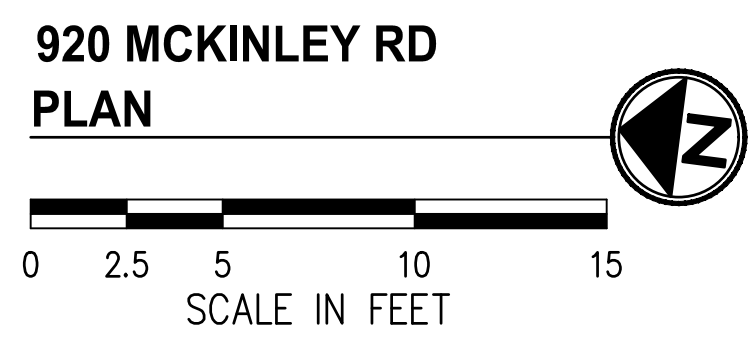
CONSTRUCTION NOTES

- 1 RESTORE LAWN PER RESTORATION TABLE, SHEET 37.

LEGEND

-  HARD SURFACE RESTORATION ON PRIVATE PROPERTY, SEE NOTES, THIS SHEET
-  SOFT SURFACE RESTORATION ON PRIVATE PROPERTY, SEE NOTES, THIS SHEET
-  PLANTER STRIP/LAWN WITHIN ROW

**MINNIS
920**



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BEFORE YOU DIG
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**BID
DOCUMENT**

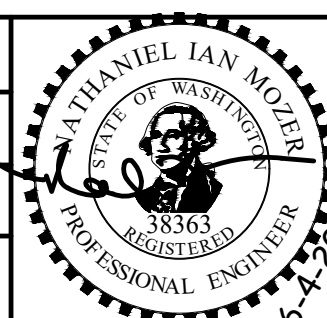
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PSOMAS**
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2502 Jefferson Avenue
Tacoma, WA 98402 253.627.0720
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**CITY OF
TACOMA**
Horizontal Datum
N.A.D. 83/91
Vertical Datum
N.G.V.D. 29



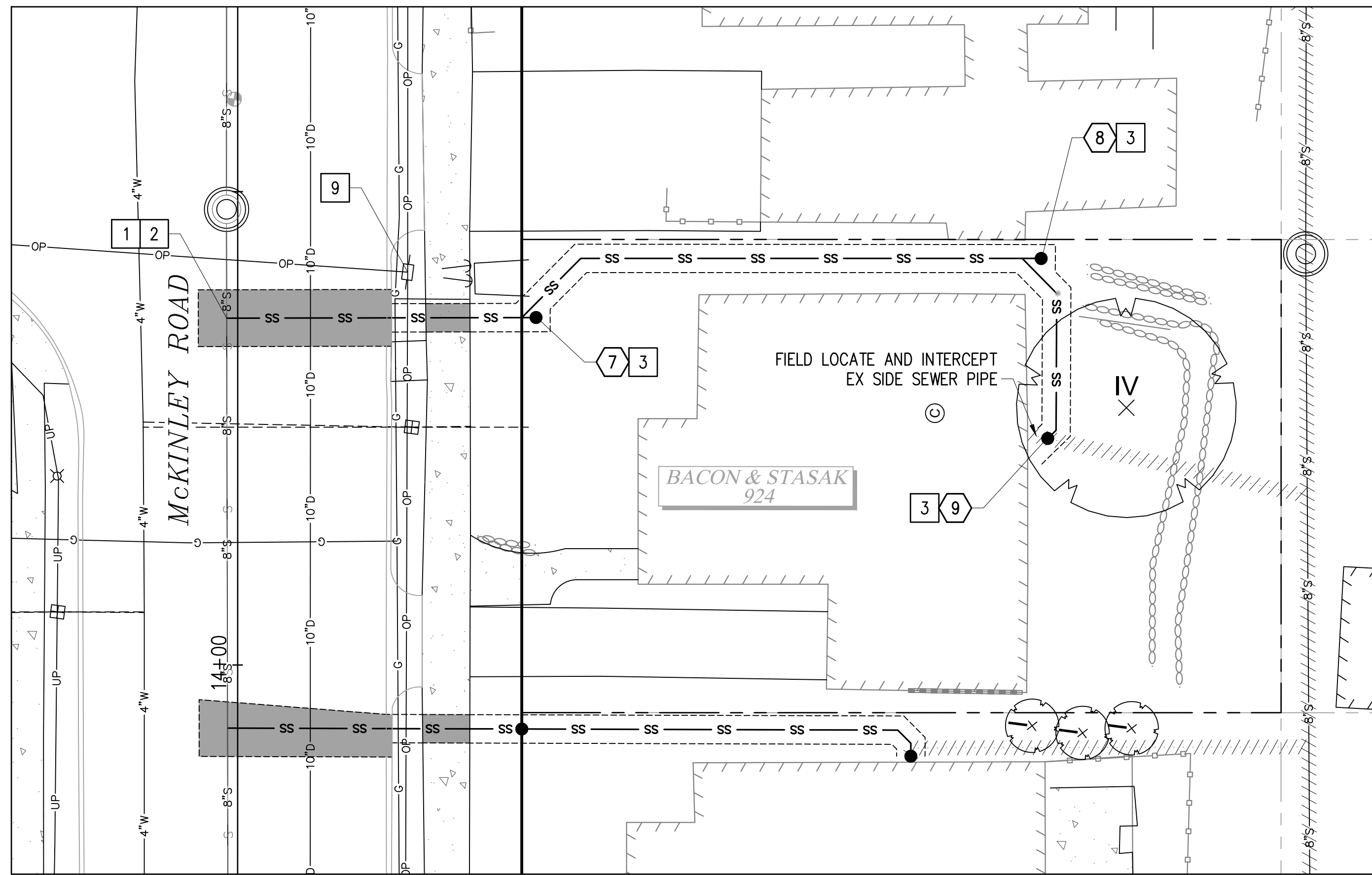
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FINAL CONSTRUCTION CHECKED	DATE	SCALE
DESIGNED	05/24	1"=5'
DRAWN	EH	NIM
PROJECT NAME	PROJECT NAME	WWSS-MCKIN
DRAWING NAME	DRAWING NAME	948 McKinley Road.dwg



**CITY OF TACOMA
ENVIRONMENTAL SERVICES DEPARTMENT
WASTEWATER SIDE SEWER IMPROVEMENTS MCKINLEY ROAD
PRIVATE IMPROVEMENT RESTORATION PLAN
920 MCKINLEY ROAD**

SPEC. NO.	ES24-0034F
WBS NO.	ENV-04018-08 PWK-00438-46
SHEET NO.	12 OF 37



**924 MCKINLEY RD
PLAN**

1" = 10'



CONSTRUCTION NOTES

- 1 CONNECT TO EXISTING SEWER MAIN PER COT STANDARD PLAN SU-23.
- 2 CONSTRUCT PVC SIDE SEWER PER THE COT SIDE SEWER AND SANITARY SEWER AVAILABILITY MANUAL.
- 3 CONSTRUCT CLEANOUT PER COT STANDARD PLAN SU-24.
- 9 LUMINAIRE/UTILITY POLE - COORDINATE WITH TPU (SEE SPECIAL PROVISION 1-07.17).

LEGEND

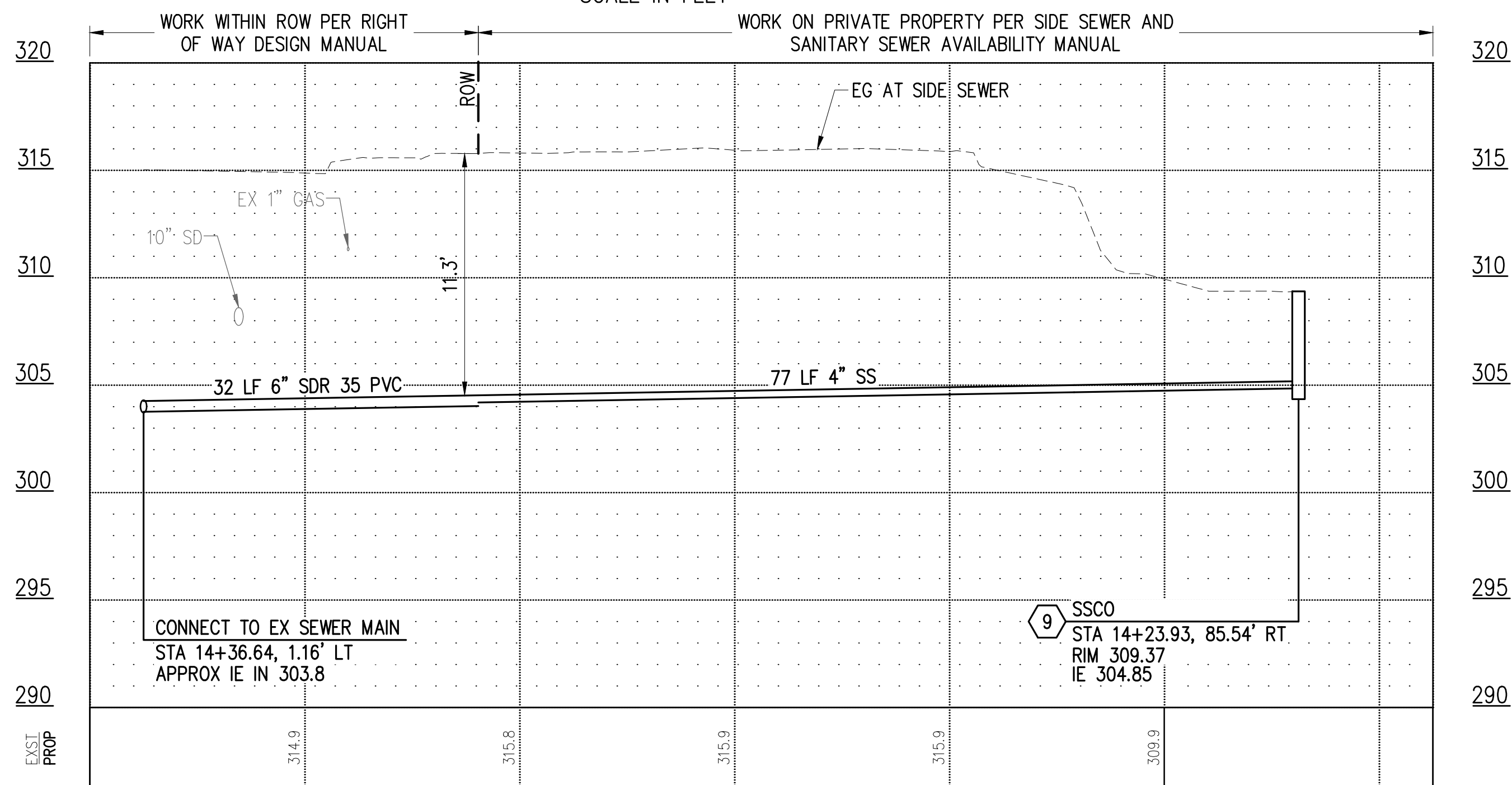
- TEMPORARY HMA PATCH PER DETAIL 2, SHEET 37
- TEMPORARY CSTC TRENCH PATCH PER DETAIL 3, SHEET 37
- SS — SIDE SEWER
- SS CLEANOUT
- ## SS CLEANOUT NUMBER

SIDE SEWER CONSTRUCTION STANDARDS

1. PIPE SIZE SHALL BE A MINIMUM OF 6" WITHIN ROW AND MINIMUM OF 4" ON PRIVATE PROPERTY.
2. SIDE SEWER MINIMUM PIPE SLOPE IS 2.0%.
3. SIDE SEWERS SHALL HAVE A MINIMUM DEPTH OF 5' AT THE ROW LINE.
4. CLEANOUTS SHALL BE REQUIRED AT THE FOLLOWING LOCATIONS:
 - APPROXIMATELY 2' FROM THE BUILDING AT THE CHANGE FROM BUILDING DRAIN TO SIDE SEWER.
 - EVERY 135 DEGREES OF TOTAL BEND (INCLUDING HORZ. AND VERT.).
 - EVERY 100' OF PIPE RUN.
 - EVERY CHANGE OF PIPE SIZE.
 - AT THE PROPERTY LINE.
5. PIPE SHALL HAVE MINIMUM DEPTH OF COVER OF 3' IN DRIVING AREAS.

GENERAL NOTES

1. THE HORIZONTAL AND VERTICAL SIDE SEWER CONFIGURATION SHOWN ON THIS SHEET IS APPROXIMATE BASED ON THE INFORMATION AVAILABLE DURING DESIGN. THE CONTRACTOR MAY, WITH THE APPROVAL OF THE CONSTRUCTION INSPECTOR, ADJUST THE SIDE SEWER ALIGNMENT AS NEEDED TO BETTER ACCOMMODATE CONSTRUCTION METHODS AND CONDITIONS EXPERIENCED DURING CONSTRUCTION.
2. ALL EXISTING UTILITY INFORMATION INCLUDING MATERIAL, DEPTH, AND LOCATION ARE BASED ON AVAILABLE INFORMATION WITHOUT POTHOLING AND IS SOLELY FOR THE CONTRACTOR'S BENEFIT. INVERT ELEVATIONS FOR UTILITY CROSSINGS SHOWN ON PROFILES ARE ESTIMATED BASED ON RECORD DRAWINGS, GIS, OR OTHER DATA AND MAY NOT BE ACCURATE. INVERT ELEVATIONS FOR SOME UTILITY CROSSINGS ARE NOT AVAILABLE; THESE UTILITIES ARE SHOWN ON THE PROFILES IN THEIR APPROX. HORIZONTAL LOCATION TO ALERT THE CONTRACTOR OF THEIR EXISTENCE. THE CONTRACTOR SHALL POTHOLE UTILITY CROSSINGS & CONNECTION POINTS AT THE LOCATIONS SPECIFIED HEREIN A MINIMUM OF 5 WORKING DAYS PRIOR TO BEGINNING UTILITY IMPROVEMENTS TO VERIFY HORIZONTAL/VERTICAL LOCATION AND MATERIAL. CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IN THE EVENT OF CONFLICT.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING ALL PIPE AND FITTINGS REQUIRED TO REALIGN PLUMBING WITHIN EXISTING BASEMENTS/CRAWL SPACES WHERE SPECIFIED ON THE PLANS.
4. SIDE SEWERS WITHIN 10' HORIZONTALLY OR 18" VERTICALLY OF EXISTING WATER SERVICE SHALL BE CONSTRUCTED WITH C900 PVC SEWER PIPE.
5. THE EXISTING SIDE SEWER PIPE MATERIAL(S) IS UNKNOWN. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXISTING PIPE MATERIALS AND PROVIDING AN APPROPRIATE COUPLING TO TRANSITION FROM EXISTING TO PROPOSED SIDE SEWER PIPE.
6. CONSTRUCTION MAY REQUIRE EXCAVATION WITHIN 10 FEET OF UTILITY POLES. WHERE ANTICIPATED, CONTRACTOR SHALL CONTACT TACOMA POWER (253) 502-8991 AT LEAST 2 WEEKS IN ADVANCE OF ANY CONSTRUCTION ACTIVITY WITHIN 10 FEET OF AN EXISTING POLE TO COORDINATE AN ONSITE VISIT WITH A TPU FIELD INSPECTOR. SEE SPECIAL PROVISION SECTION 1-07.17 FOR ADDITIONAL DETAIL AND REQUIREMENTS.
7. CONSTRUCTION WILL REQUIRE EXCAVATION IMMEDIATELY ADJACENT TO EXISTING BUILDING AND STRUCTURES, THE MAJORITY OF WHICH WERE CONSTRUCTED IN THE 1920'S. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PRESERVE AND PROTECT ALL BUILDINGS AND STRUCTURES AND TO MAKE SURE CONSTRUCTION METHODS, SHORING METHODS, AND COMPACTION METHODS ARE APPROPRIATE GIVEN THE LOCATION OF THE CONSTRUCTION AREA.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING EXISTING UTILITIES ON PRIVATE PROPERTY.



SIDE SEWER PROFILE

HOR: 1"=10' VER: 1"=5'

**CALL 2 DAYS BEFORE YOU DIG
1-800-424-5555**

BID DOCUMENT

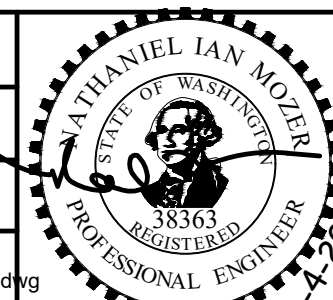


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NO	REVISION	DATE	APPD

FINAL CONSTRUCTION CHECKED	DATE: 05/24	SCALE: AS NOTED
DESIGNED	EH	NIM
DRAWN	EH	PROJECT NAME: WWSS-MCKIN
FIELD BOOKS	DRAWING NAME: ENV-04018-08-05 PS Side Sewers 02.dwg	

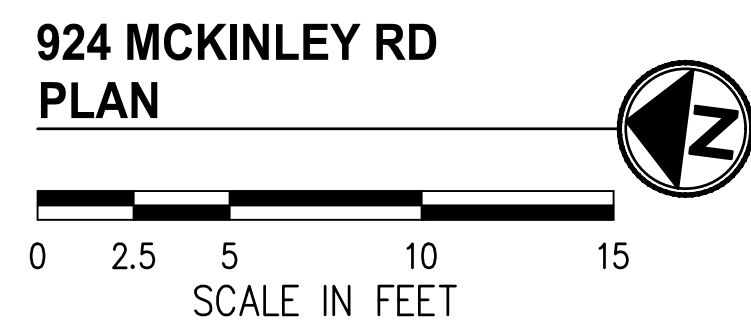
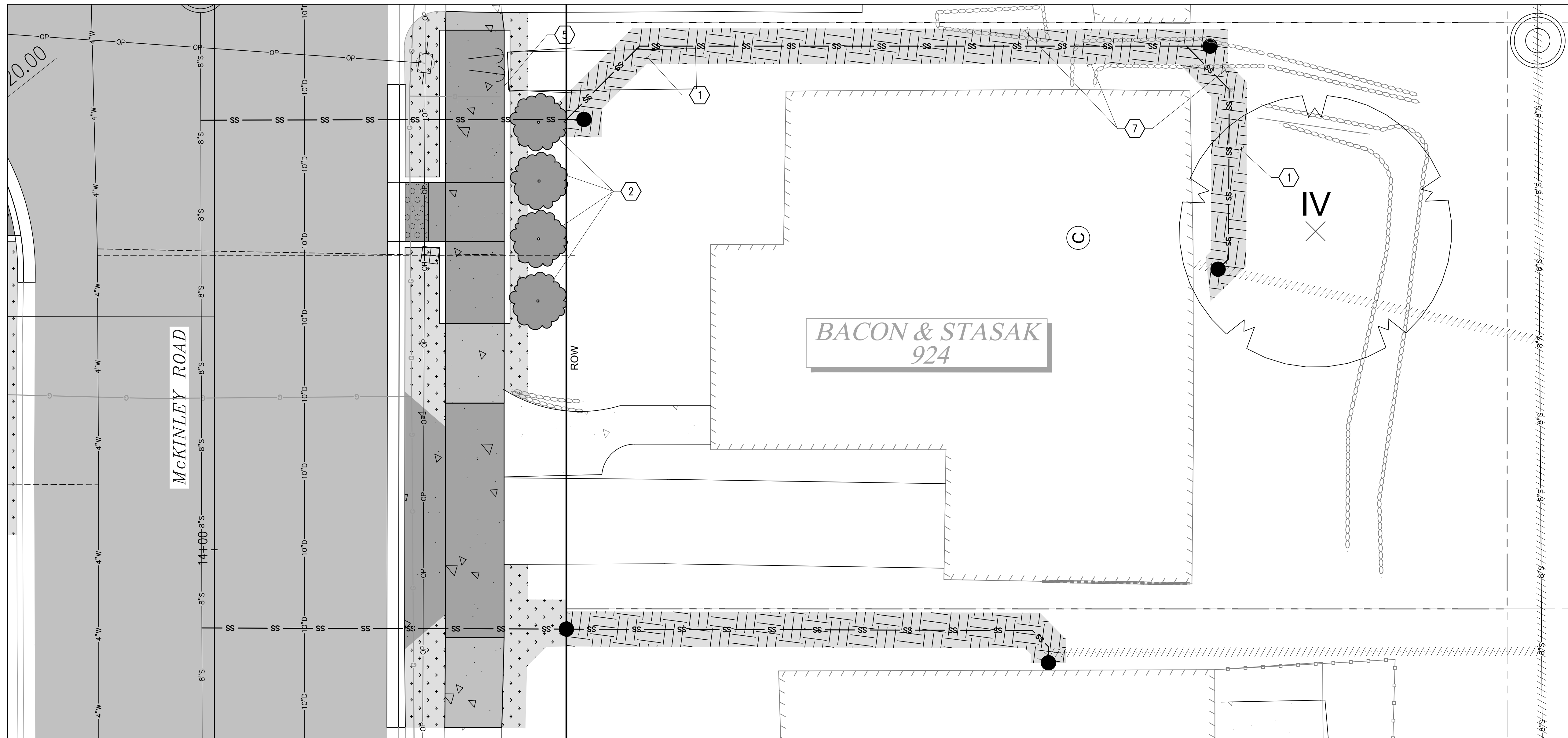


CITY OF TACOMA
ENVIRONMENTAL SERVICES DEPARTMENT
**WASTEWATER SIDE SEWER IMPROVEMENTS MCKINLEY ROAD
SIDE SEWER PLAN + PROFILE & TEMPORARY RESTORATION PLAN**
924 MCKINLEY ROAD

SPEC. NO.	ES24-0034F
PROJ. NO.	ENV-04018-08
SHEET NO.	PWK-00438-46
SHEET	13 OF 37

DATE: 04/20/24 2:46 PM PATH: K:\TACOMA\17042-DRAFTING SUPPORT\CP17042\17042\MCKINLEY\CONTRACT DWGS\SHEETFILES FILE: ENV\04018-08-05 PS SIDE SEWERS 02 LAYOUT: SS (4) 924 MCKINLEY RD

DATE: 04/20/24 2:47 PM PATH: K:\TACOMA\17042-DRAFTING SUPPORT\017042\17042\MCKINLEY\CONTRACT DWG\SS-SHEETFILES FILE: 952 MCKINLEY ROAD_LAYOUT.PRIV IMP (4) 924 MCKINLEY RD



LEGEND

- HARD SURFACE RESTORATION ON PRIVATE PROPERTY, SEE NOTES, THIS SHEET
- SOFT SURFACE RESTORATION ON PRIVATE PROPERTY, SEE NOTES, THIS SHEET
- PLANTER STRIP/LAWN WITHIN ROW

GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE DIRECTLY WITH PROPERTY OWNER AND CITY INSPECTOR TO CONFIRM THE LOCATIONS AND TYPES OF MATERIALS TO USE DURING RESTORATION PRIOR TO BEGINNING THE WORK.
2. FOR RESTORATION WITHIN ROW SEE SHEETS 29-31.

CONSTRUCTION NOTES

- ① RESTORE LAWN PER RESTORATION TABLE, SHEET 37.
- ② REPLANT SALVAGED TREE/SHRUB OR REPLACE IN-KIND.
- ⑤ REINSTALL SALVAGED LANDSCAPE BORDER AT PRECONSTRUCTION LOCATION AND CONDITION OR REPLACE IN-KIND.
- ⑦ REINSTALL SALVAGED ROCKERY AT PRECONSTRUCTION LOCATION AND CONDITION OR REPLACE IN-KIND.

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BEFORE YOU DIG
1-800-424-5555**

**BID
DOCUMENT**

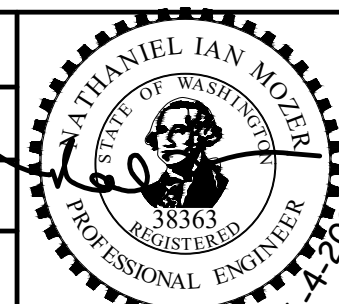


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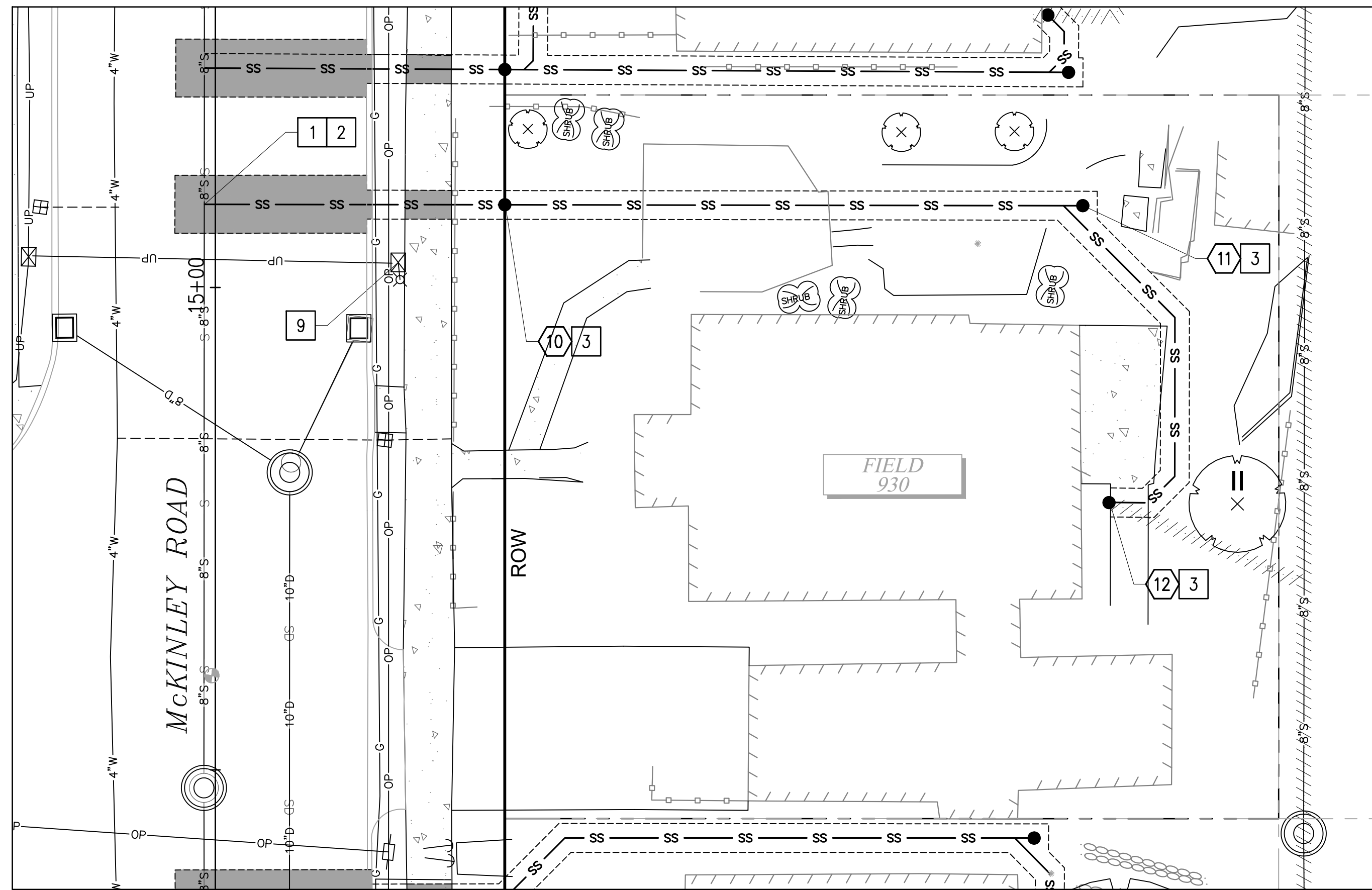
NO	REVISION	DATE	APPD

FINAL CONSTRUCTION CHECKED	DATE	SCALE
DESIGNED	05/24	1"=5'
CHECKED	EH	NIM
DRAWN	EH	PROJECT NAME
FIELD BOOKS	DRAWN	WWSS-MCKIN
	DRAWING NAME	952 McKinley Road.dwg

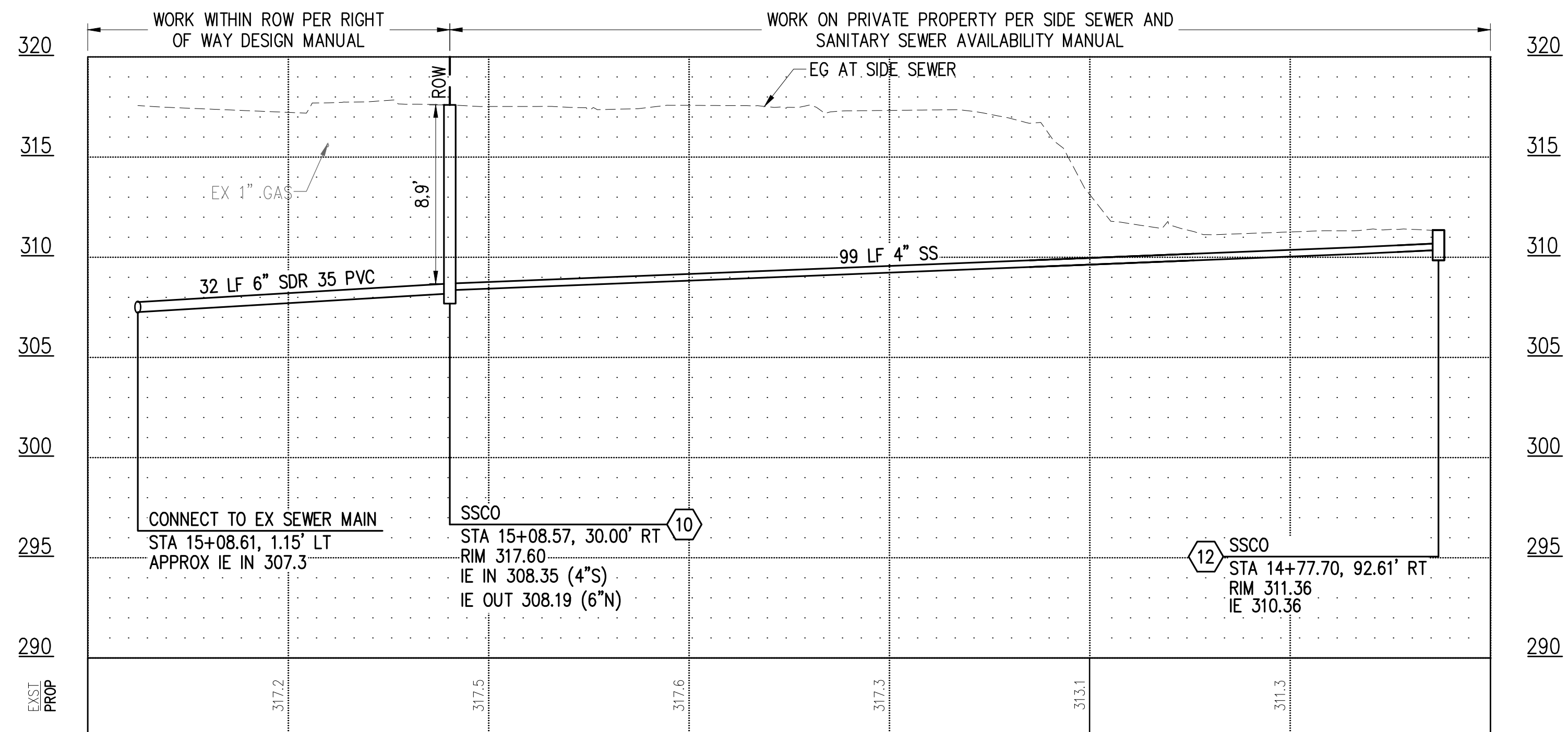


CITY OF TACOMA
ENVIRONMENTAL SERVICES DEPARTMENT
WASTEWATER SIDE SEWER IMPROVEMENTS MCKINLEY ROAD
PRIVATE IMPROVEMENT RESTORATION PLAN
924 MCKINLEY ROAD

SPEC. NO.	ES24-0034F
WBS NO.	ENV-04018-08 PWK-00438-46
SHEET NO.	14
OF	37



930 MCKINLEY RD
PLAN
 1" = 10'
 SCALE IN FEET



SIDE SEWER PROFILE
 HOR: 1"=10' VER: 1"=5'

CONSTRUCTION NOTES

- 1 CONNECT TO EXISTING SEWER MAIN PER COT STANDARD PLAN SU-23.
- 2 CONSTRUCT PVC SIDE SEWER PER THE COT SIDE SEWER AND SANITARY SEWER AVAILABILITY MANUAL.
- 3 CONSTRUCT CLEANOUT PER COT STANDARD PLAN SU-24.
- 9 LUMINAIRE/UTILITY POLE - COORDINATE WITH TPU (SEE SPECIAL PROVISION 1-07.17).

LEGEND

- TEMPORARY HMA PATCH PER DETAIL 2, SHEET 37
- TEMPORARY CSTC TRENCH PATCH PER DETAIL 3, SHEET 37
- SIDE SEWER
- SS CLEANOUT
- SS CLEANOUT NUMBER

SIDE SEWER CONSTRUCTION STANDARDS

1. PIPE SIZE SHALL BE A MINIMUM OF 6" WITHIN ROW AND MINIMUM OF 4" ON PRIVATE PROPERTY.
2. SIDE SEWER MINIMUM PIPE SLOPE IS 2.0%.
3. SIDE SEWERS SHALL HAVE A MINIMUM DEPTH OF 5' AT THE ROW LINE.
4. CLEANOUTS SHALL BE REQUIRED AT THE FOLLOWING LOCATIONS:
 - APPROXIMATELY 2' FROM THE BUILDING AT THE CHANGE FROM BUILDING DRAIN TO SIDE SEWER.
 - EVERY 135 DEGREES OF TOTAL BEND (INCLUDING HORZ. AND VERT.).
 - EVERY 100' OF PIPE RUN.
 - EVERY CHANGE OF PIPE SIZE.
 - AT THE PROPERTY LINE.
5. PIPE SHALL HAVE MINIMUM DEPTH OF COVER OF 3' IN DRIVING AREAS.

GENERAL NOTES

1. THE HORIZONTAL AND VERTICAL SIDE SEWER CONFIGURATION SHOWN ON THIS SHEET IS APPROXIMATE BASED ON THE INFORMATION AVAILABLE DURING DESIGN. THE CONTRACTOR MAY, WITH THE APPROVAL OF THE CONSTRUCTION INSPECTOR, ADJUST THE SIDE SEWER ALIGNMENT AS NEEDED TO BETTER ACCOMMODATE CONSTRUCTION METHODS AND CONDITIONS EXPERIENCED DURING CONSTRUCTION.
2. ALL EXISTING UTILITY INFORMATION INCLUDING MATERIAL, DEPTH, AND LOCATION ARE BASED ON AVAILABLE INFORMATION WITHOUT POTHOLING AND IS SOLELY FOR THE CONTRACTOR'S BENEFIT. INVERT ELEVATIONS FOR UTILITY CROSSINGS SHOWN ON PROFILES ARE ESTIMATED BASED ON RECORD DRAWINGS, GIS, OR OTHER DATA AND MAY NOT BE ACCURATE. INVERT ELEVATIONS FOR SOME UTILITY CROSSINGS ARE NOT AVAILABLE; THESE UTILITIES ARE SHOWN ON THE PROFILES IN THEIR APPROX. HORIZONTAL LOCATION TO ALERT THE CONTRACTOR OF THEIR EXISTENCE. THE CONTRACTOR SHALL POTHOLE UTILITY CROSSINGS & CONNECTION POINTS AT THE LOCATIONS SPECIFIED HEREIN A MINIMUM OF 5 WORKING DAYS PRIOR TO BEGINNING UTILITY IMPROVEMENTS TO VERIFY HORIZONTAL/VERTICAL LOCATION AND MATERIAL. CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IN THE EVENT OF CONFLICT.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING ALL PIPE AND FITTINGS REQUIRED TO REALIGN PLUMBING WITHIN EXISTING BASEMENTS/CRAWL SPACES WHERE SPECIFIED ON THE PLANS.
4. SIDE SEWERS WITHIN 10' HORIZONTALLY OR 18" VERTICALLY OF EXISTING WATER SERVICE SHALL BE CONSTRUCTED WITH C900 PVC SEWER PIPE.
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8. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING EXISTING UTILITIES ON PRIVATE PROPERTY.

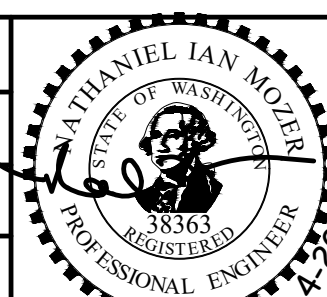
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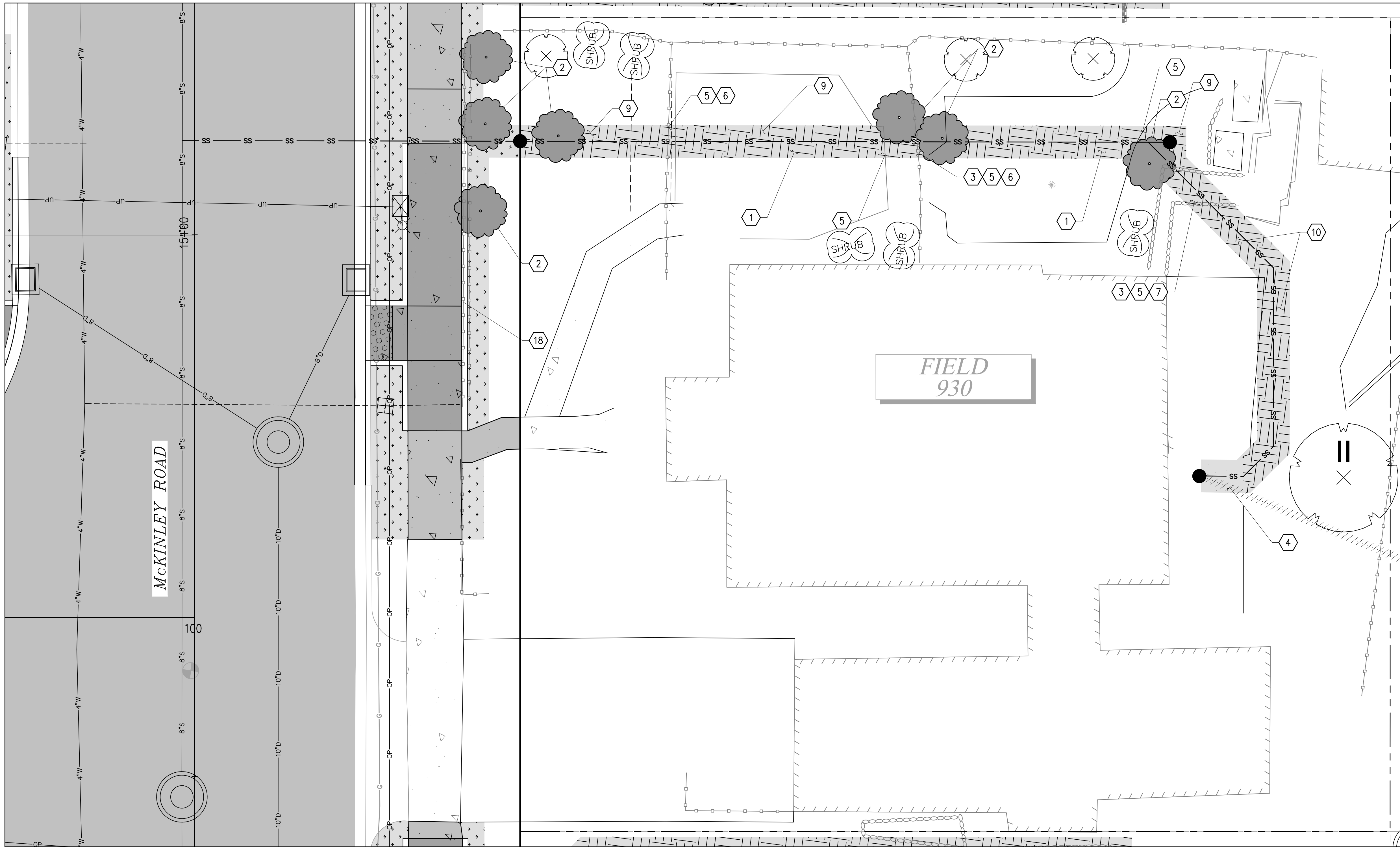
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FINAL CONSTRUCTION CHECKED	DATE	SCALE																									
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DATE	DESIGNED	CHECKED																									
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	EH	WWSS-MCKIN																									
FIELD BOOKS	DRAWING NAME																										
	ENV-04018-08-05 Side Sewers 01.dwg																										



CITY OF TACOMA
 ENVIRONMENTAL SERVICES DEPARTMENT
WASTEWATER SIDE SEWER IMPROVEMENTS MCKINLEY ROAD
 SIDE SEWER PLAN + PROFILE & TEMPORARY RESTORATION PLAN
 930 MCKINLEY ROAD

SPEC. NO.	ES24-0034F
PROJ. NO.	ENV-04018-08
SHEET NO.	PWK-00438-46
SHEET	15 OF 37

DATE: 04/20/24 2:48 PM PATH: K:\TACOMA\17042-DRAFTING SUPPORT\01\17042\MCKINLEY\CONTRACT DWGS\SHEETFILES FILE: 948 MCKINLEY ROAD_LAYOUT.PRIV IMP (5) 930 MCKINLEY ROAD



GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE DIRECTLY WITH PROPERTY OWNER AND CITY INSPECTOR TO CONFIRM THE LOCATIONS AND TYPES OF MATERIALS TO USE DURING RESTORATION PRIOR TO BEGINNING THE WORK.
2. FOR RESTORATION WITHIN ROW SEE SHEETS 29-31.

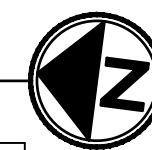
CONSTRUCTION NOTES

- 1 RESTORE LAWN PER RESTORATION TABLE, SHEET 37.
- 2 REPLANT SALVAGED TREE/SHRUB OR REPLACE IN-KIND.
- 3 REINSTALL/REPLACE SALVAGED LAWN ORNAMENTS AND ART.
- 4 REINSTALL SALVAGED BRICK PAVERS AT PRECONSTRUCTION LOCATION AND CONDITION OR REPLACE IN-KIND.
- 5 REINSTALL SALVAGED LANDSCAPE BORDER AT PRECONSTRUCTION LOCATION AND CONDITION OR REPLACE IN-KIND.
- 6 REINSTALL SALVAGED WOOD FENCE & GATE AT PRECONSTRUCTION LOCATION AND CONDITION OR REPLACE IN-KIND.
- 7 REINSTALL SALVAGED ROCKERY AT PRECONSTRUCTION LOCATION AND CONDITION OR REPLACE IN-KIND.
- 9 RESTORE BARK MULCH PER RESTORATION TABLE, SHEET 37.
- 10 RESTORE, OR REPLACE IN-KIND, PEA GRAVEL PATH.
- 18 REINSTALL SALVAGED WOOD FENCE IN SAME CONDITION BEHIND PROPOSED SIDEWALK IMPROVEMENTS OR REPLACE IN-KIND.

LEGEND

- HARD SURFACE RESTORATION ON PRIVATE PROPERTY, SEE NOTES, THIS SHEET
- SOFT SURFACE RESTORATION ON PRIVATE PROPERTY, SEE NOTES, THIS SHEET
- PLANTER STRIP/LAWN WITHIN ROW

**930 MCKINLEY RD
PLAN**

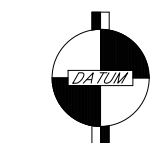


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BEFORE YOU DIG
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DOCUMENT**



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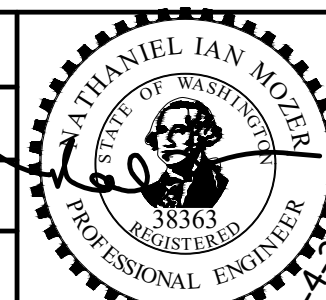


CITY OF
TACOMA
Horizontal Datum
N.A.D. 83/91
Vertical Datum
N.G.V.D. 29



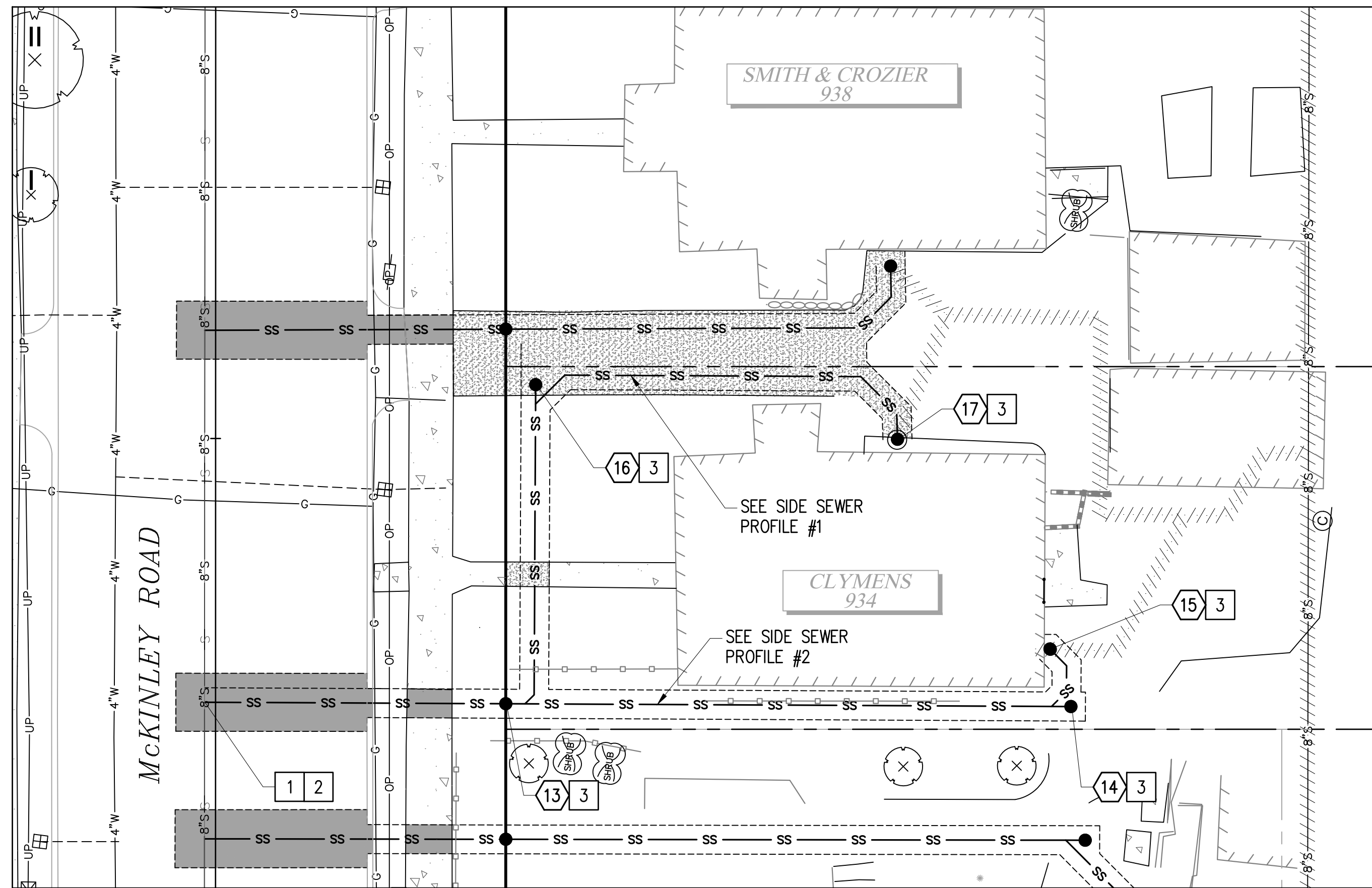
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FINAL CONSTRUCTION CHECKED	DATE	SCALE
DESIGNED	05/24	1"=5'
BY	EH	NIM
DATE	EAH	PROJECT NAME
FIELD BOOKS	WWSS-MCKIN	948 McKinley Road.dwg

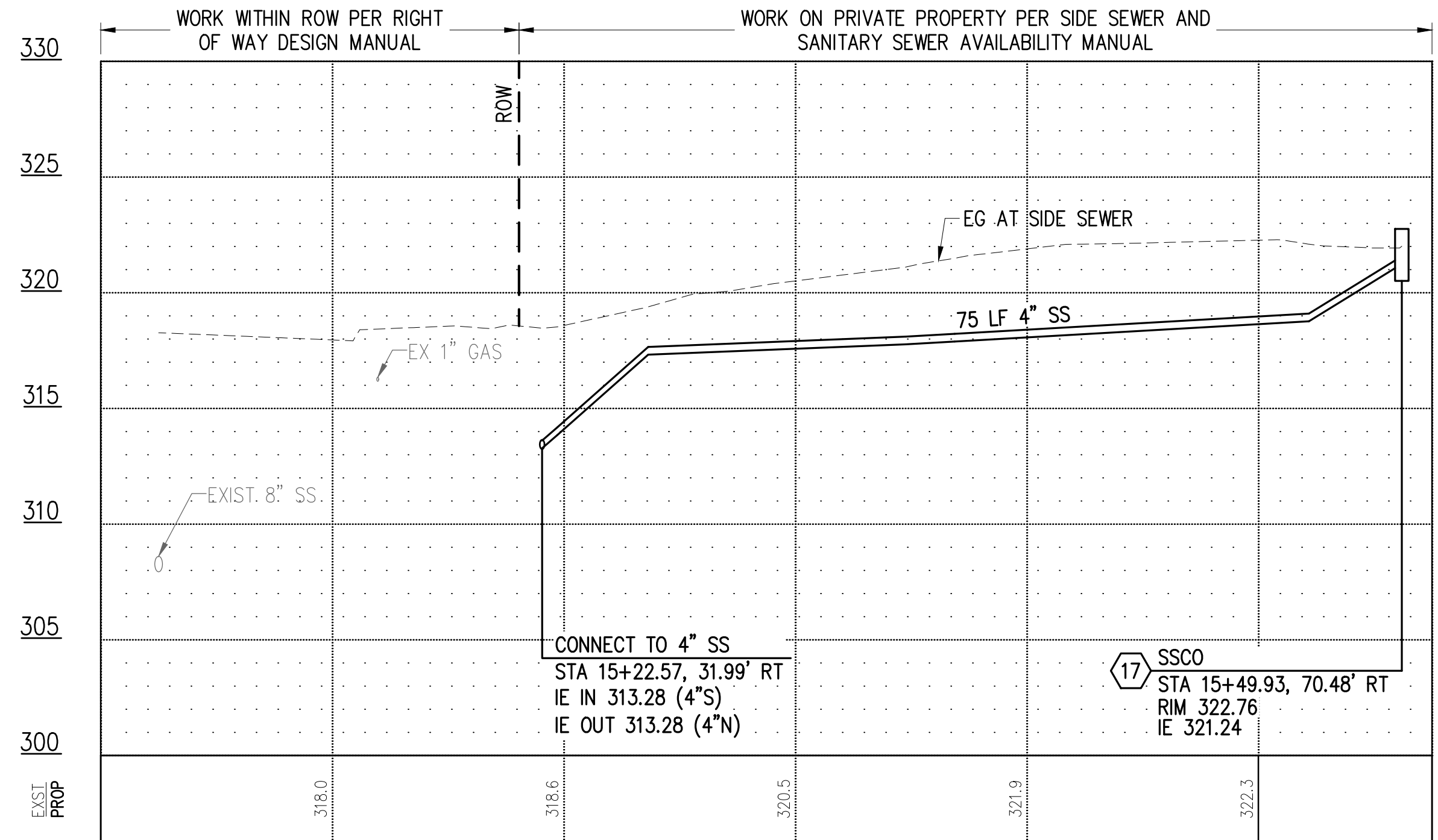


CITY OF TACOMA
ENVIRONMENTAL SERVICES DEPARTMENT
WASTEWATER SIDE SEWER IMPROVEMENTS MCKINLEY ROAD
PRIVATE IMPROVEMENT RESTORATION PLAN
930 MCKINLEY ROAD

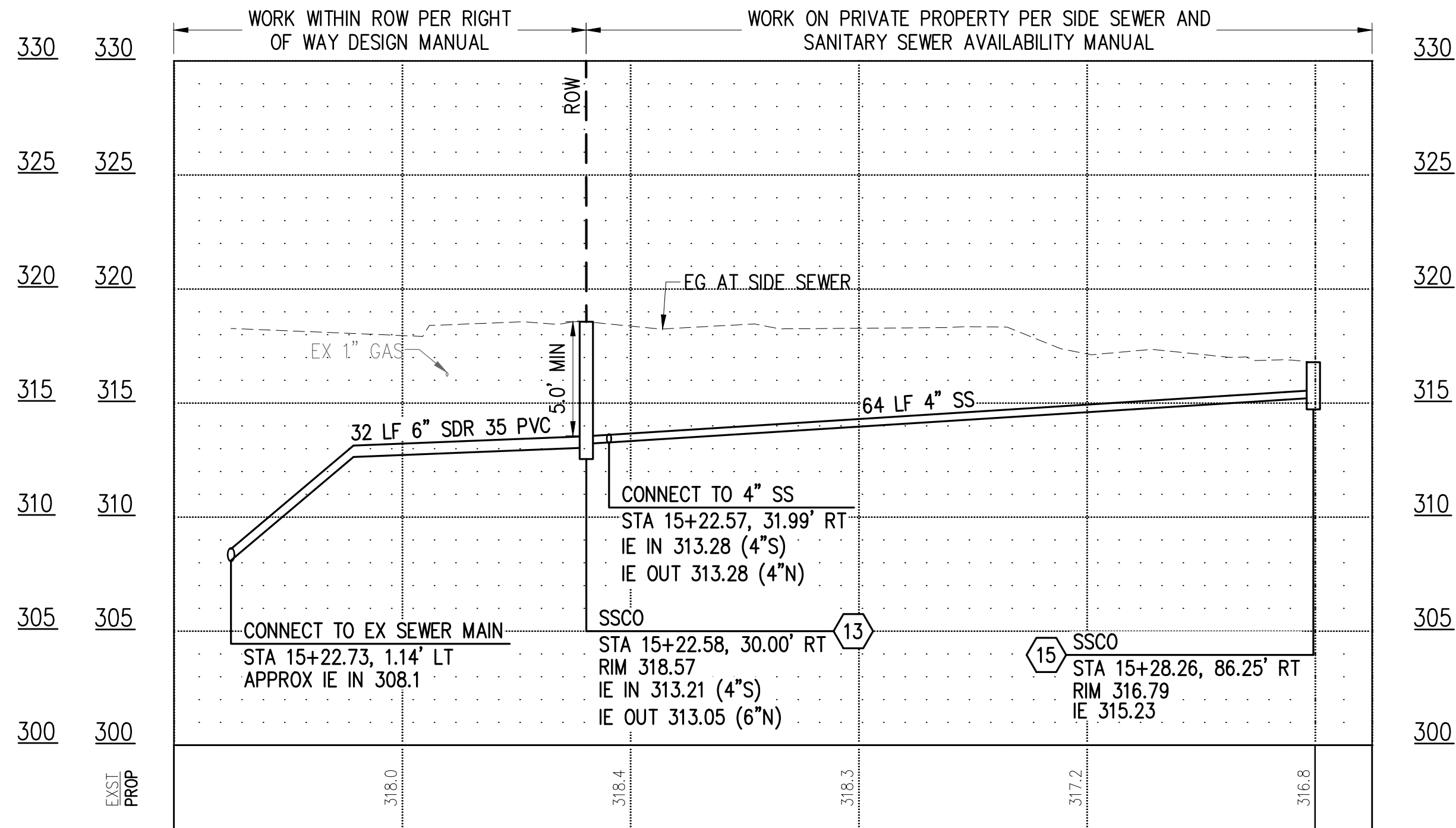
SPEC. NO.	ES24-0034F
NBS NO.	ENV-04018-08 PWK-00438-46
SHEET NO.	16 OF 37



934 MCKINLEY RD PLAN
 1" = 10'
 SCALE IN FEET



SIDE SEWER PROFILE #1
 HOR: 1"=10' VER: 1"-5'



SIDE SEWER PROFILE #2
 HOR: 1"=10' VER: 1"-5'

CONSTRUCTION NOTES

- 1 CONNECT TO EXISTING SEWER MAIN PER COT STANDARD PLAN SU-23.
- 2 CONSTRUCT PVC SIDE SEWER PER THE COT SIDE SEWER AND SANITARY SEWER AVAILABILITY MANUAL.
- 3 CONSTRUCT CLEANOUT PER COT STANDARD PLAN SU-24.

LEGEND

- TEMPORARY HMA PATCH PER DETAIL 2, SHEET 37
- TEMPORARY CSTC TRENCH PATCH PER DETAIL 3, SHEET 37
- SIDE SEWER
- SS CLEANOUT
- SS CLEANOUT NUMBER

SIDE SEWER CONSTRUCTION STANDARDS

1. PIPE SIZE SHALL BE A MINIMUM OF 6" WITHIN ROW AND MINIMUM OF 4" ON PRIVATE PROPERTY.
2. SIDE SEWER MINIMUM PIPE SLOPE IS 2.0%.
3. SIDE SEWERS SHALL HAVE A MINIMUM DEPTH OF 5' AT THE ROW LINE.
4. CLEANOUTS SHALL BE REQUIRED AT THE FOLLOWING LOCATIONS:
 - APPROXIMATELY 2' FROM THE BUILDING AT THE CHANGE FROM BUILDING DRAIN TO SIDE SEWER.
 - EVERY 135 DEGREES OF TOTAL BEND (INCLUDING HORZ. AND VERT.).
 - EVERY 100' OF PIPE RUN.
 - EVERY CHANGE OF PIPE SIZE.
 - AT THE PROPERTY LINE.
5. PIPE SHALL HAVE MINIMUM DEPTH OF COVER OF 3' IN DRIVING AREAS.

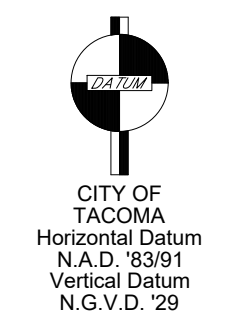
GENERAL NOTES

1. THE HORIZONTAL AND VERTICAL SIDE SEWER CONFIGURATION SHOW ON THIS SHEET IS APPROXIMATE BASED ON THE INFORMATION AVAILABLE DURING DESIGN. THE CONTRACTOR MAY, WITH THE APPROVAL OF THE CONSTRUCTION INSPECTOR, ADJUST THE SIDE SEWER ALIGNMENT AS NEEDED TO BETTER ACCOMMODATE CONSTRUCTION METHODS AND CONDITIONS EXPERIENCED DURING CONSTRUCTION.
2. ALL EXISTING UTILITY INFORMATION INCLUDING MATERIAL, DEPTH, A LOCATION ARE BASED ON AVAILABLE INFORMATION WITHOUT POTHOLES AND IS SOLELY FOR THE CONTRACTOR'S BENEFIT. INVEI ELEVATIONS FOR UTILITY CROSSINGS SHOWN ON PROFILES ARE ESTIMATED BASED ON RECORD DRAWINGS, GIS, OR OTHER DATA AT MAY NOT BE ACCURATE. INVERT ELEVATIONS FOR SOME UTILITY CROSSINGS ARE NOT AVAILABLE; THESE UTILITIES ARE SHOWN ON THE PROFILES IN THEIR APPROX. HORIZONTAL LOCATION TO ALERT THE CONTRACTOR OF THEIR EXISTENCE. THE CONTRACTOR SHALL POTHOLE UTILITY CROSSINGS & CONNECTION POINTS AT THE LOCATIONS SPECIFIED HEREIN A MINIMUM OF 5 WORKING DAYS PRI TO BEGINNING UTILITY IMPROVEMENTS TO VERIFY HORIZONTAL/VERTICAL LOCATION AND MATERIAL. CONTRACTOR SH/ NOTIFY THE ENGINEER IMMEDIATELY IN THE EVENT OF CONFLICT.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING ALL PIPE AND FITTINGS REQUIRED TO REALIGN PLUMBING WITHIN EXISTING BASEMENTS/CRAWL SPACES WHERE SPECIFIED ON THE PLANS.
4. SIDE SEWERS WITHIN 10' HORIZONTALLY OR 18" VERTICALLY OF EXISTING WATER SERVICE SHALL BE CONSTRUCTED WITH C900 PVC SEWER PIPE.
5. THE EXISTING SIDE SEWER PIPE MATERIAL(S) IS UNKNOWN. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXISTING F MATERIALS AND PROVIDING AN APPROPRIATE COUPLING TO TRANSITION FROM EXISTING TO PROPOSED SIDE SEWER PIPE.
6. CONSTRUCTION MAY REQUIRE EXCAVATION WITHIN 10 FEET OF UTIL POLES. WHERE ANTICIPATED, CONTRACTOR SHALL CONTACT TACOM POWER (253) 502-8991 AT LEAST 2 WEEKS IN ADVANCE OF ANY CONSTRUCTION ACTIVITY WITHIN 10 FEET OF AN EXISTING POLE TO COORDINATE AN ONSITE VISIT WITH A TPU FIELD INSPECTOR. SEE SPECIAL PROVISION SECTION 1-07.17 FOR ADDITIONAL DETAIL AND REQUIREMENTS.
7. CONSTRUCTION WILL REQUIRE EXCAVATION IMMEDIATELY ADJACENT EXISTING BUILDING AND STRUCTURES, THE MAJORITY OF WHICH WE CONSTRUCTED IN THE 1920'S. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PRESERVE AND PROTECT ALL BUILDINGS AND STRUCTURES AND TO MAKE SURE CONSTRUCTION METHODS, SHORII METHODS, AND COMPACTION METHODS ARE APPROPRIATE GIVEN TH LOCATION OF THE CONSTRUCTION AREA.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING EXISTING UTILITIES ON PRIVATE PROPERTY.

DATE: 04/20/24 2:49 PM PATH: K:\TACOMA\17042-DRAFTING SUPPORT CIP\17042\M\10\MCKINLEY\CONTRACT DWGS\SHEETFILES FILE: ENV\04018-08-05 PS SIDE SEWERS 02 LAYOUT: SS (8) 934 MCKINLEY RD

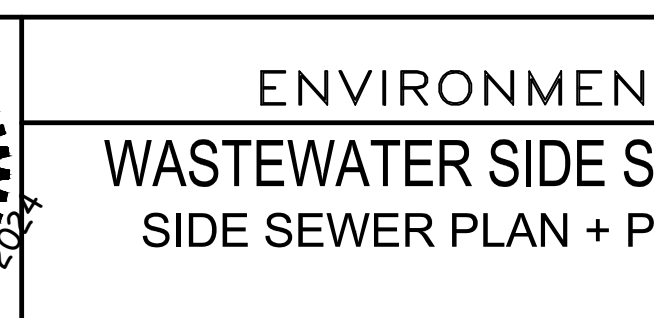
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NO	REVISION	DATE	APPD

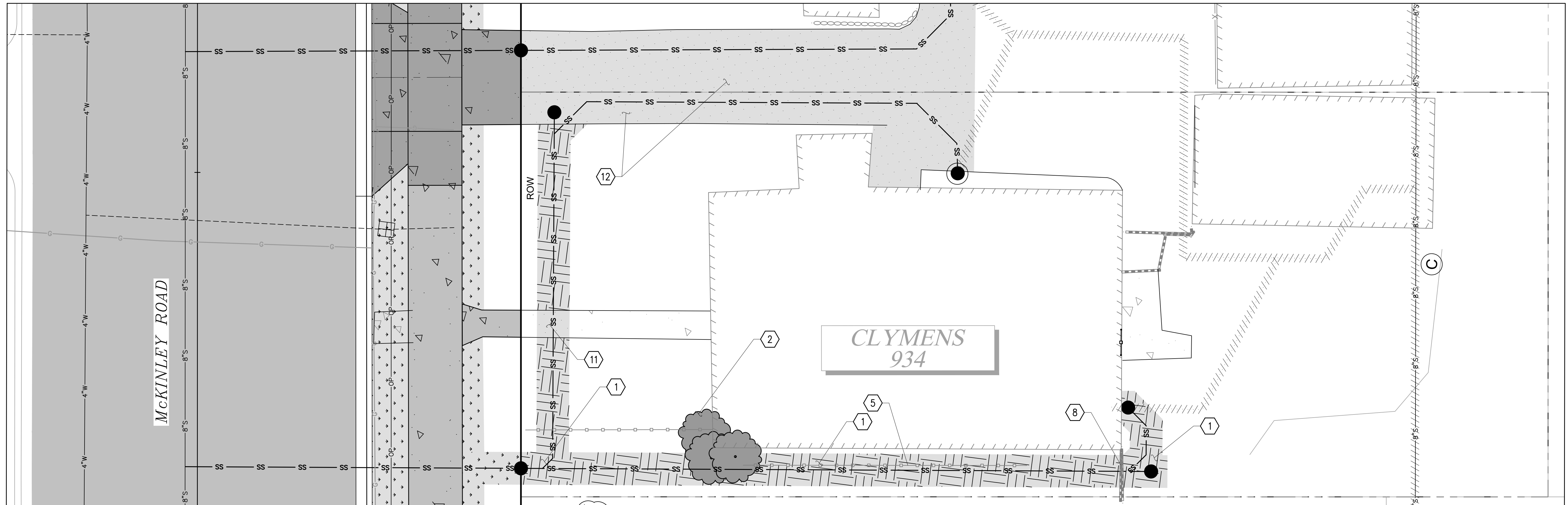
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DESIGNED: EH	CHECKED: NIM	PROJECT NAME: WWSS-MCKIN
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CITY OF TACOMA
 ENVIRONMENTAL SERVICES DEPARTMENT
WASTEWATER SIDE SEWER IMPROVEMENTS MCKINLEY ROAD
 SIDE SEWER PLAN + PROFILE & TEMPORARY RESTORATION PLAN
 934 MCKINLEY ROAD

SPEC. NO.	ES24-0034F
PROJ. NO.	ENV-04018-08
SHEET NO.	PWK-00438-46
SHEET	17 OF 37

DATE: 04/20/24 2:50 PM PATH: K:\TACOMA\17042-DRAFTING SUPPORT\0171942\17042\MCKINLEY\CONTRACT DWG\SHEETFILES FILE: 952 MCKINLEY ROAD_LAYOUT.PRIV IMP (6) 934 MCKINLEY RD



**934 MCKINLEY RD
PLAN**

0 2.5 5 10 15
SCALE IN FEET

LEGEND

- HARD SURFACE RESTORATION ON PRIVATE PROPERTY, SEE NOTES, THIS SHEET
- SOFT SURFACE RESTORATION ON PRIVATE PROPERTY, SEE NOTES, THIS SHEET
- PLANTER STRIP/LAWN WITHIN ROW

GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE DIRECTLY WITH PROPERTY OWNER AND CITY INSPECTOR TO CONFIRM THE LOCATIONS AND TYPES OF MATERIALS TO USE DURING RESTORATION PRIOR TO BEGINNING THE WORK.
2. FOR RESTORATION WITHIN ROW SEE SHEETS 29-31.

CONSTRUCTION NOTES

- 1 RESTORE LAWN PER RESTORATION TABLE, SHEET 37.
- 2 REPLANT SALVAGED TREE/SHRUB OR REPLACE IN-KIND.
- 5 REINSTALL SALVAGED LANDSCAPE BORDER AT PRECONSTRUCTION LOCATION AND CONDITION OR REPLACE IN-KIND.
- 8 CONSTRUCT CAST IN PLACE CONC. RETAINING WALL AT PRECONSTRUCTION LOCATION, HEIGHT, AND DIMENSIONS.
- 11 4" THICK CEMENT CONCRETE WALKWAY, MATCH EXISTING WIDTH.
- 12 RECONSTRUCT DRIVEWAY APRON AT PRECONSTRUCTION LOCATION PER SECTION B, SHEET 36. APRON RESTORATION EXTENTS SHALL MATCH PRECONSTRUCTION EXTENTS. ADD EXPANSION JOINTS AT 8' SPACING.

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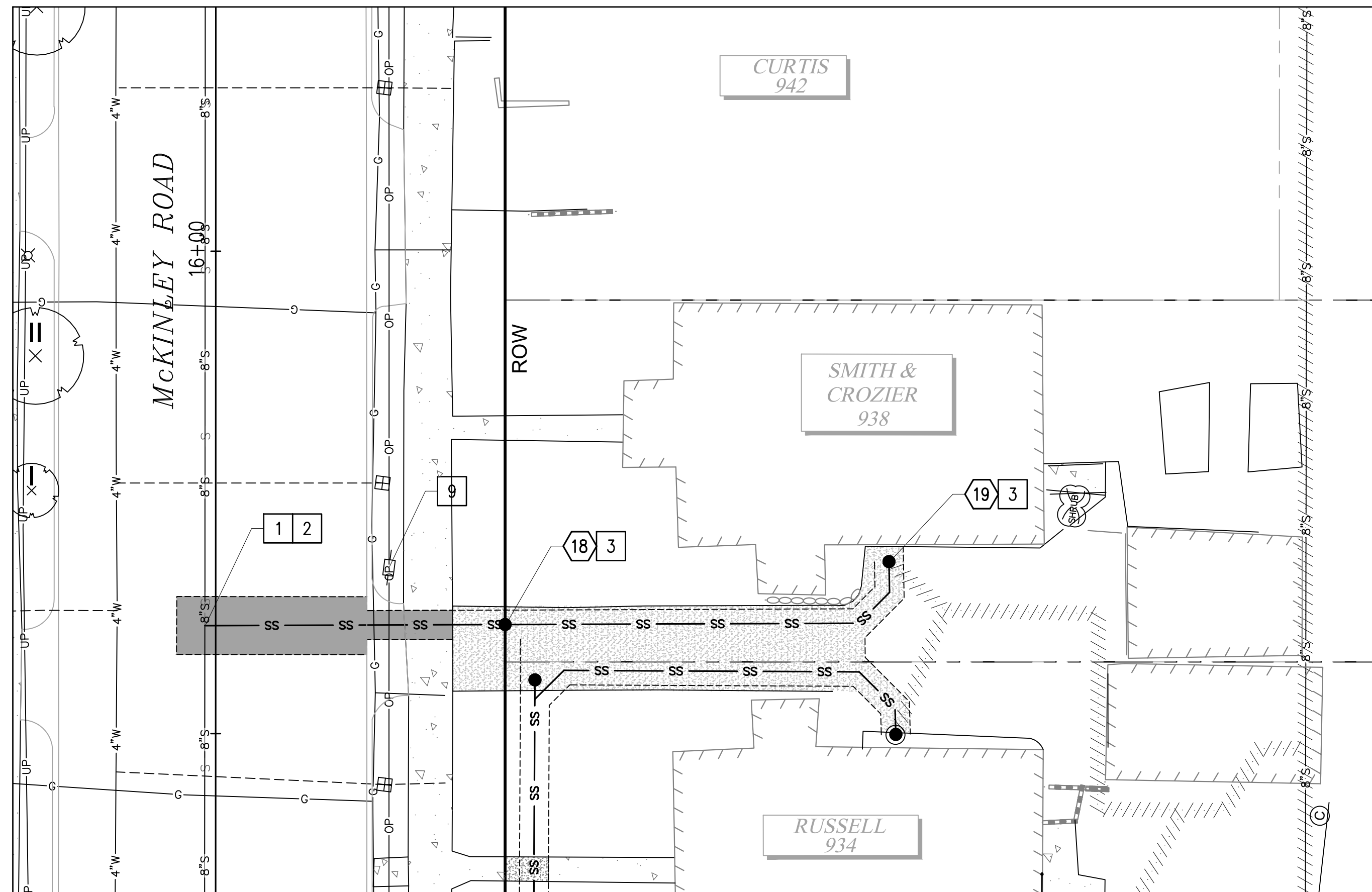
Tacoma

NO	REVISION	DATE	APPD

FINAL CONSTRUCTION CHECKED	DATE	SCALE
DESIGNED	05/24	1"=5'
CHECKED	EH	NIM
DRAWN	EH	PROJECT NAME
FIELD BOOKS	EH	WWSS-MCKIN
DRAWING NAME	952 McKinley Road.dwg	

CITY OF TACOMA
ENVIRONMENTAL SERVICES DEPARTMENT
WASTEWATER SIDE SEWER IMPROVEMENTS MCKINLEY ROAD
PRIVATE IMPROVEMENT RESTORATION PLAN
934 MCKINLEY ROAD

SPEC. NO.	ES24-0034F
WBS NO.	ENV-04018-08 PWK-00438-46
SHEET NO.	18 OF 37



938 MCKINLEY RD

PLAN

1" = 10'



CONSTRUCTION NOTES

- 1 CONNECT TO EXISTING SEWER MAIN PER COT STANDARD PLAN SU-23.
- 2 CONSTRUCT PVC SIDE SEWER PER THE COT SIDE SEWER AND SANITARY SEWER AVAILABILITY MANUAL.
- 3 CONSTRUCT CLEANOUT PER COT STANDARD PLAN SU-24.
- 9 LUMINAIRE/UTILITY POLE - COORDINATE WITH TPU (SEE SPECIAL PROVISION 1-07.17).

LEGEND

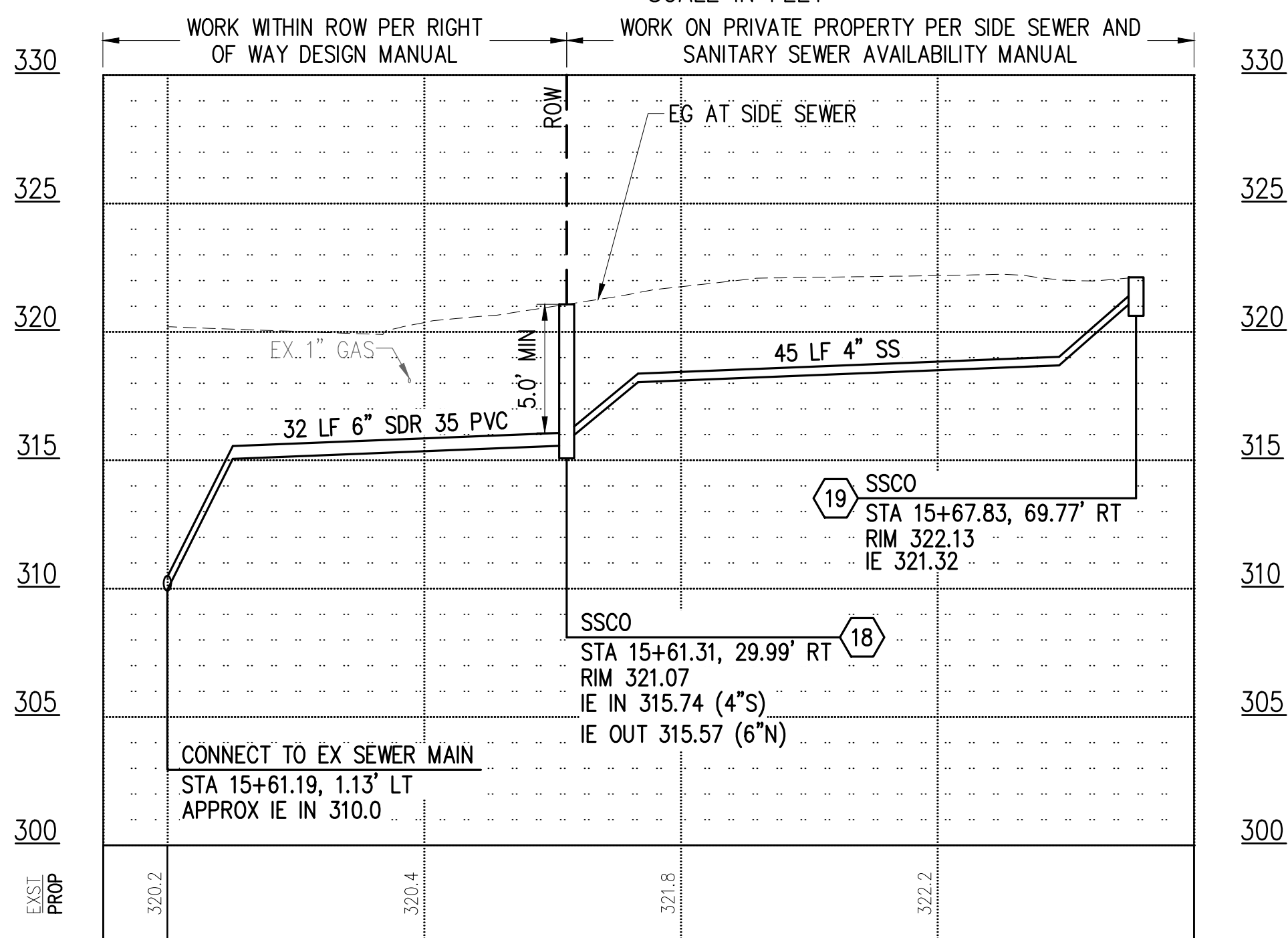
- TEMPORARY HMA PATCH PER DETAIL 2, SHEET 37
- TEMPORARY CSTC TRENCH PATCH PER DETAIL 3, SHEET 37
- SIDE SEWER
- SS CLEANOUT
- SS CLEANOUT NUMBER

GENERAL NOTES

1. THE HORIZONTAL AND VERTICAL SIDE SEWER CONFIGURATION SHOWN ON THIS SHEET IS APPROXIMATE BASED ON THE INFORMATION AVAILABLE DURING DESIGN. THE CONTRACTOR MAY, WITH THE APPROVAL OF THE CONSTRUCTION INSPECTOR, ADJUST THE SIDE SEWER ALIGNMENT AS NEEDED TO BETTER ACCOMMODATE CONSTRUCTION METHODS AND CONDITIONS EXPERIENCED DURING CONSTRUCTION.
2. ALL EXISTING UTILITY INFORMATION INCLUDING MATERIAL, DEPTH, AND LOCATION ARE BASED ON AVAILABLE INFORMATION WITHOUT POTHOLING AND IS SOLELY FOR THE CONTRACTOR'S BENEFIT. INVERT ELEVATIONS FOR UTILITY CROSSINGS SHOWN ON PROFILES ARE ESTIMATED BASED ON RECORD DRAWINGS, GIS, OR OTHER DATA AND MAY NOT BE ACCURATE. INVERT ELEVATIONS FOR SOME UTILITY CROSSINGS ARE NOT AVAILABLE; THESE UTILITIES ARE SHOWN ON THE PROFILES IN THEIR APPROX. HORIZONTAL LOCATION TO ALERT THE CONTRACTOR OF THEIR EXISTENCE. THE CONTRACTOR SHALL POTHOLE UTILITY CROSSINGS & CONNECTION POINTS AT THE LOCATIONS SPECIFIED HEREIN A MINIMUM OF 5 WORKING DAYS PRIOR TO BEGINNING UTILITY IMPROVEMENTS TO VERIFY HORIZONTAL/VERTICAL LOCATION AND MATERIAL. CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IN THE EVENT OF CONFLICT.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING ALL PIPE AND FITTINGS REQUIRED TO REALIGN PLUMBING WITHIN EXISTING BASEMENTS/CRAWL SPACES WHERE SPECIFIED ON THE PLANS.
4. SIDE SEWERS WITHIN 10' HORIZONTALLY OR 18" VERTICALLY OF EXISTING WATER SERVICE SHALL BE CONSTRUCTED WITH C900 PVC SEWER PIPE.
5. THE EXISTING SIDE SEWER PIPE MATERIAL(S) IS UNKNOWN. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXISTING PIPE MATERIALS AND PROVIDING AN APPROPRIATE COUPLING TO TRANSITION FROM EXISTING TO PROPOSED SIDE SEWER PIPE.
6. CONSTRUCTION MAY REQUIRE EXCAVATION WITHIN 10 FEET OF UTILITY POLES. WHERE ANTICIPATED, CONTRACTOR SHALL CONTACT TACOMA POWER (253) 502-8991 AT LEAST 2 WEEKS IN ADVANCE OF ANY CONSTRUCTION ACTIVITY WITHIN 10 FEET OF AN EXISTING POLE TO COORDINATE AN ONSITE VISIT WITH A TPU FIELD INSPECTOR. SEE SPECIAL PROVISION SECTION 1-07.17 FOR ADDITIONAL DETAIL AND REQUIREMENTS.
7. CONSTRUCTION WILL REQUIRE EXCAVATION IMMEDIATELY ADJACENT TO EXISTING BUILDING AND STRUCTURES, THE MAJORITY OF WHICH WERE CONSTRUCTED IN THE 1920'S. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PRESERVE AND PROTECT ALL BUILDINGS AND STRUCTURES AND TO MAKE SURE CONSTRUCTION METHODS, SHORING METHODS, AND COMPACTION METHODS ARE APPROPRIATE GIVEN THE LOCATION OF THE CONSTRUCTION AREA.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING EXISTING UTILITIES ON PRIVATE PROPERTY.

SIDE SEWER CONSTRUCTION STANDARDS

1. PIPE SIZE SHALL BE A MINIMUM OF 6" WITHIN ROW AND MINIMUM OF 4" ON PRIVATE PROPERTY.
2. SIDE SEWER MINIMUM PIPE SLOPE IS 2.0%.
3. SIDE SEWERS SHALL HAVE A MINIMUM DEPTH OF 5' AT THE ROW LINE.
4. CLEANOUTS SHALL BE REQUIRED AT THE FOLLOWING LOCATIONS:
 - APPROXIMATELY 2' FROM THE BUILDING AT THE CHANGE FROM BUILDING DRAIN TO SIDE SEWER.
 - EVERY 135 DEGREES OF TOTAL BEND (INCLUDING HORZ. AND VERT.).
 - EVERY 100' OF PIPE RUN.
 - EVERY CHANGE OF PIPE SIZE.
 - AT THE PROPERTY LINE.
5. PIPE SHALL HAVE MINIMUM DEPTH OF COVER OF 3' IN DRIVING AREAS.



SIDE SEWER PROFILE
HOR: 1"=10' VER: 1"=5'

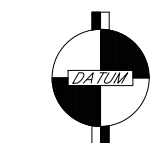
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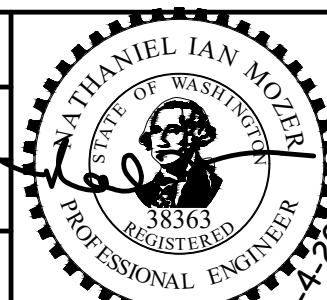


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Vertical Datum
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NO	REVISION	DATE	APPD

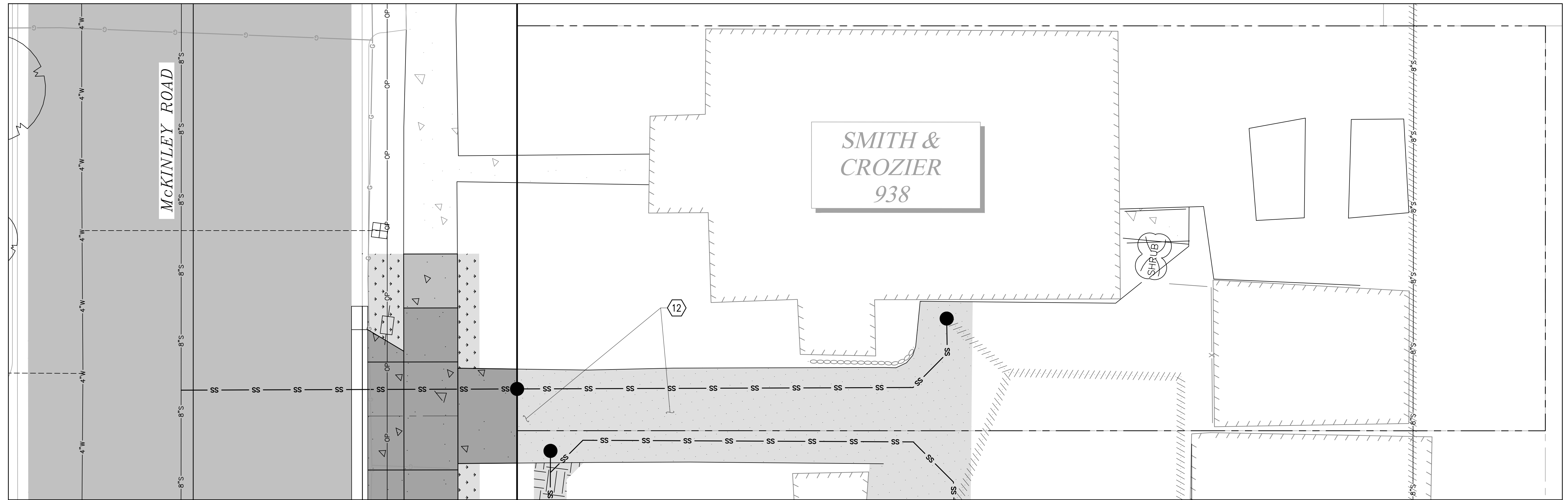
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DESIGNED	05/24	AS NOTED
DRAWN	EH	NIM
PROJECT NAME	WWS-MCKIN	
DRAWING NAME	ENV-04018-08-05 Side Sewers 01.dwg	



CITY OF TACOMA
ENVIRONMENTAL SERVICES DEPARTMENT
WASTEWATER SIDE SEWER IMPROVEMENTS MCKINLEY ROAD
SIDE SEWER PLAN + PROFILE & TEMPORARY RESTORATION PLAN
938 MCKINLEY ROAD

SPEC. NO.	ES24-0034F
SHEET NO.	ENV-04018-08 PWK-00438-46
SHEET	19 OF 37

DATE: 04/20/24 2:51 PM PATH: K:\TACOMA\17042-DRAFTING SUPPORT\0171942\17042\MCKINLEY\CONTRACT DWG\SS-SHEETFILES FILE: 948 MCKINLEY ROAD_LAYOUT.PRIV IMP7 (7) 938 MCKINLEY RD



**938 MCKINLEY RD
PLAN**

0 2.5 5 10 15
SCALE IN FEET

LEGEND

- HARD SURFACE RESTORATION ON PRIVATE PROPERTY, SEE NOTES, THIS SHEET
- SOFT SURFACE RESTORATION ON PRIVATE PROPERTY, SEE NOTES, THIS SHEET
- PLANTER STRIP/LAWN WITHIN ROW

GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE DIRECTLY WITH PROPERTY OWNER AND CITY INSPECTOR TO CONFIRM THE LOCATIONS AND TYPES OF MATERIALS TO USE DURING RESTORATION PRIOR TO BEGINNING THE WORK.
2. FOR RESTORATION WITHIN ROW SEE SHEETS 29-31.

CONSTRUCTION NOTES

- RECONSTRUCT DRIVEWAY APRON AT PRECONSTRUCTION LOCATION PER SECTION B, SHEET 36. APRON RESTORATION EXTENTS SHALL MATCH PRECONSTRUCTION EXTENTS. ADD EXPANSION JOINTS AT 8' SPACING.

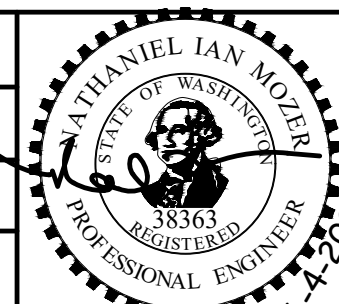
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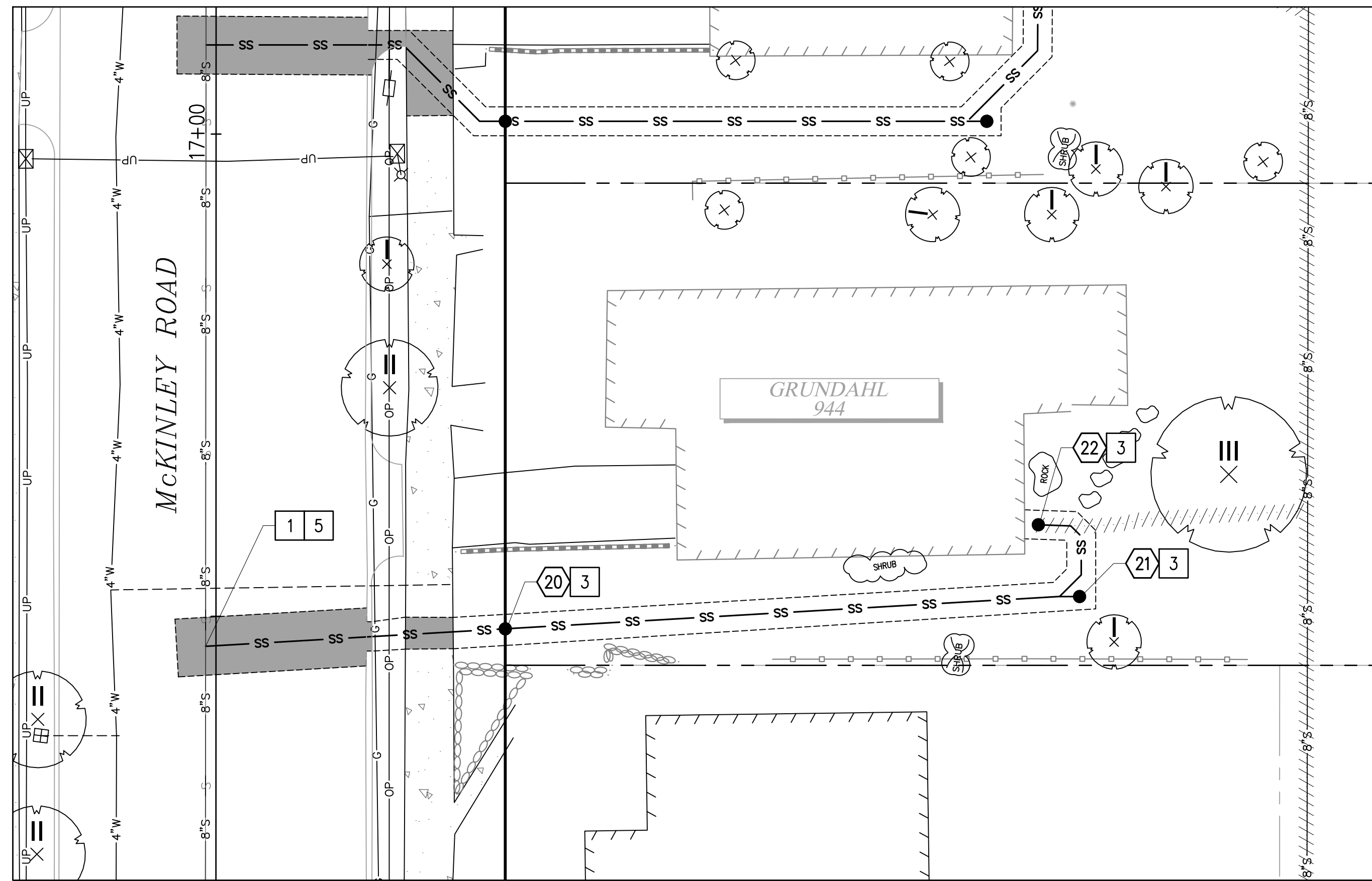
NO	REVISION	DATE	APPD

FINAL CONSTRUCTION CHECKED	DATE	SCALE
	05/24	1"=5'
DESIGNED	CHECKED	
EH	NIM	
DRAWN	PROJECT NAME	
EH	WWSS-MCKIN	
FIELD BOOKS	DRAWING NAME	
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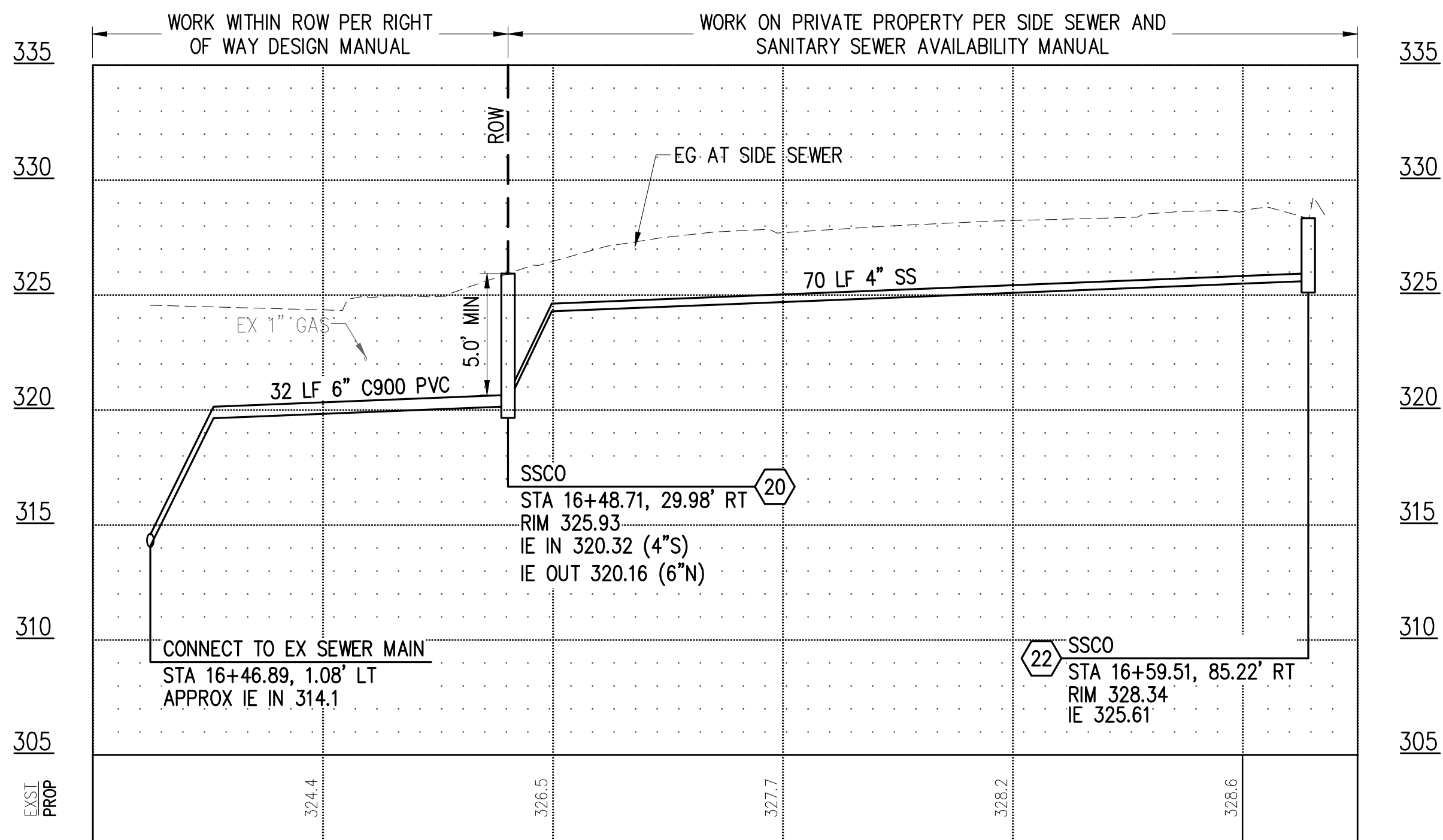


CITY OF TACOMA
ENVIRONMENTAL SERVICES DEPARTMENT
WASTEWATER SIDE SEWER IMPROVEMENTS MCKINLEY ROAD
PRIVATE IMPROVEMENT RESTORATION PLAN
938 MCKINLEY ROAD

SPEC. NO.	ES24-0034F
WBS NO.	ENV-04018-08 PWK-00438-46
SHEET NO.	20 OF 37



**944 MCKINLEY RD
PLAN**
1" = 10'
SCALE IN FEET



SIDE SEWER PROFILE
HOR: 1"=10' VER: 1"-5'

CONSTRUCTION NOTES

- 1 CONNECT TO EXISTING SEWER MAIN PER COT STANDARD PLAN SU-23.
- 3 CONSTRUCT CLEANOUT PER COT STANDARD PLAN SU-24.
- 5 CONSTRUCT C900 PVC SIDE SEWER PER THE COT SIDE SEWER AND SANITARY AVAILABILITY MANUAL.

LEGEND

- TEMPORARY HMA PATCH PER DETAIL 2, SHEET 37
- TEMPORARY CSTC TRENCH PATCH PER DETAIL 3, SHEET 37
- SIDE SEWER
- SS CLEANOUT
- SS CLEANOUT NUMBER

SIDE SEWER CONSTRUCTION STANDARDS

1. PIPE SIZE SHALL BE A MINIMUM OF 6" WITHIN ROW AND MINIMUM OF 4" ON PRIVATE PROPERTY.
2. SIDE SEWER MINIMUM PIPE SLOPE IS 2.0%.
3. SIDE SEWERS SHALL HAVE A MINIMUM DEPTH OF 5' AT THE ROW LINE.
4. CLEANOUTS SHALL BE REQUIRED AT THE FOLLOWING LOCATIONS:
 - APPROXIMATELY 2' FROM THE BUILDING AT THE CHANGE FROM BUILDING DRAIN TO SIDE SEWER.
 - EVERY 135 DEGREES OF TOTAL BEND (INCLUDING HORZ. AND VERT.).
 - EVERY 100' OF PIPE RUN.
 - EVERY CHANGE OF PIPE SIZE.
 - AT THE PROPERTY LINE.
5. PIPE SHALL HAVE MINIMUM DEPTH OF COVER OF 3' IN DRIVING AREAS.

GENERAL NOTES

1. THE HORIZONTAL AND VERTICAL SIDE SEWER CONFIGURATION SHOWN ON THIS SHEET IS APPROXIMATE BASED ON THE INFORMATION AVAILABLE DURING DESIGN. THE CONTRACTOR MAY, WITH THE APPROVAL OF THE CONSTRUCTION INSPECTOR, ADJUST THE SIDE SEWER ALIGNMENT AS NEEDED TO BETTER ACCOMMODATE CONSTRUCTION METHODS AND CONDITIONS EXPERIENCED DURING CONSTRUCTION.
2. ALL EXISTING UTILITY INFORMATION INCLUDING MATERIAL, DEPTH, AND LOCATION ARE BASED ON AVAILABLE INFORMATION WITHOUT POTHOLING AND IS SOLELY FOR THE CONTRACTOR'S BENEFIT. INVERT ELEVATIONS FOR UTILITY CROSSINGS SHOWN ON PROFILES ARE ESTIMATED BASED ON RECORD DRAWINGS, GIS, OR OTHER DATA AND MAY NOT BE ACCURATE. INVERT ELEVATIONS FOR SOME UTILITY CROSSINGS ARE NOT AVAILABLE; THESE UTILITIES ARE SHOWN ON THE PROFILES IN THEIR APPROX. HORIZONTAL LOCATION TO ALERT THE CONTRACTOR OF THEIR EXISTENCE. THE CONTRACTOR SHALL POTHOLE UTILITY CROSSINGS & CONNECTION POINTS AT THE LOCATIONS SPECIFIED HEREIN A MINIMUM OF 5 WORKING DAYS PRIOR TO BEGINNING UTILITY IMPROVEMENTS TO VERIFY HORIZONTAL/VERTICAL LOCATION AND MATERIAL. CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IN THE EVENT OF CONFLICT.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING ALL PIPE AND FITTINGS REQUIRED TO REALIGN PLUMBING WITHIN EXISTING BASEMENTS/CRAWL SPACES WHERE SPECIFIED ON THE PLANS.
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8. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING EXISTING UTILITIES ON PRIVATE PROPERTY.

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FINAL CONSTRUCTION CHECKED	DATE 05/24	SCALE AS NOTED
DESIGNED	EH	CHECKED NIM
DRAWN	EH	PROJECT NAME WWSS-MCKIN
FIELD BOOKS	DRAWING NAME ENV-04018-08-05 PS Side Sewers 02.dwg	

MATTHEW IAN MOYER
REGISTERED PROFESSIONAL ENGINEER
No. 42054

CITY OF TACOMA
ENVIRONMENTAL SERVICES DEPARTMENT

**WASTEWATER SIDE SEWER IMPROVEMENTS MCKINLEY ROAD
SIDE SEWER PLAN + PROFILE & TEMPORARY RESTORATION PLAN**

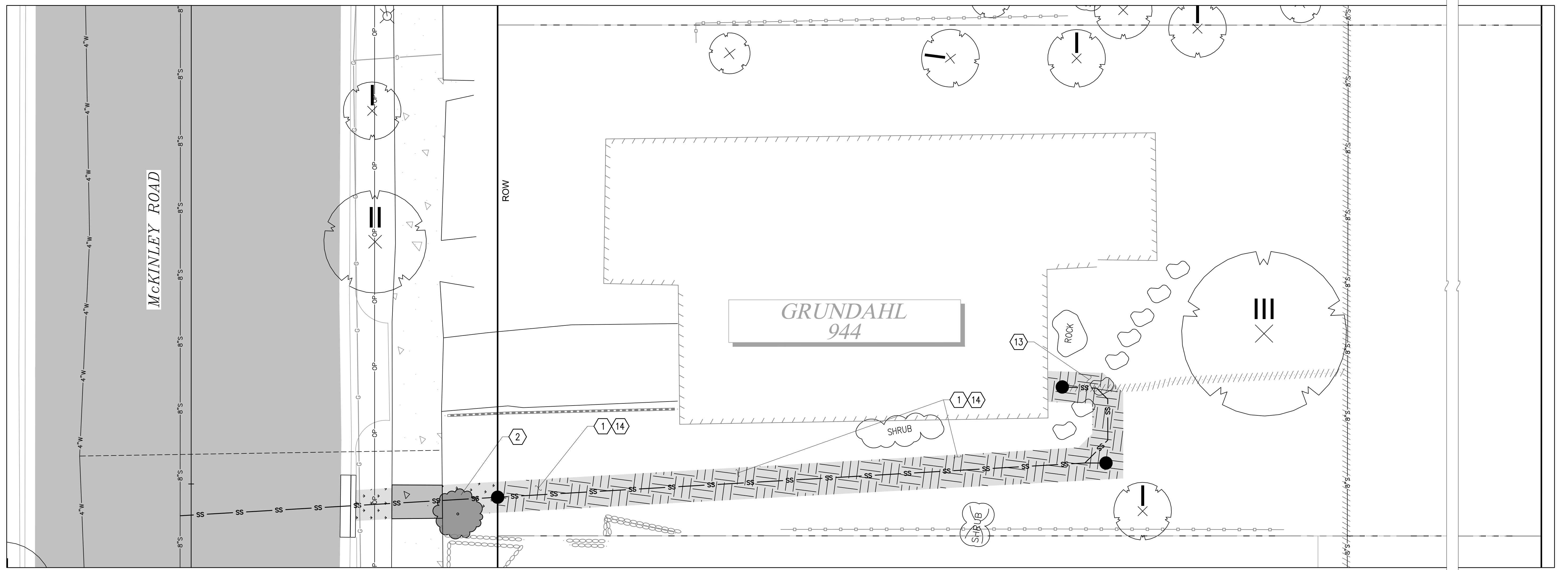
944 MCKINLEY ROAD

SPEC. NO. **ES24-0034F**

PROJ. NO. ENV-04018-08
PWK-00438-46

SHEET NO. 21 OF 37

DATE: 04/20/24 2:52 PM PATH: K:\TACOMA\17042-DRAFTING SUPPORT\01\17042\MCKINLEY\CONTRACT DWG\SHEETFILES FILE: 952 MCKINLEY ROAD_LAYOUT.PRIV IMP (8) 944 MCKINLEY RD



**944 MCKINLEY RD
PLAN**

0 2.5 5 10 15
SCALE IN FEET

LEGEND

- HARD SURFACE RESTORATION ON PRIVATE PROPERTY, SEE NOTES, THIS SHEET
- SOFT SURFACE RESTORATION ON PRIVATE PROPERTY, SEE NOTES, THIS SHEET
- PLANTER STRIP/LAWN WITHIN ROW

GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE DIRECTLY WITH PROPERTY OWNER AND CITY INSPECTOR TO CONFIRM THE LOCATIONS AND TYPES OF MATERIALS TO USE DURING RESTORATION PRIOR TO BEGINNING THE WORK.
2. FOR RESTORATION WITHIN ROW SEE SHEETS 29-31.

CONSTRUCTION NOTES

- ① RESTORE LAWN PER RESTORATION TABLE, SHEET 37.
- ② REPLANT SALVAGED TREE/SHRUB OR REPLACE IN-KIND.
- ⑬ REINSTALL, OR REPLACE IN-KIND, SALVAGED FLAG STONES AT PRECONSTRUCTION LOCATION.
- ⑭ GRADE SIDE YARD TO UNIFORM PLANE THAT SLOPES FROM SOUTH TO NORTH.

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DOCUMENT**

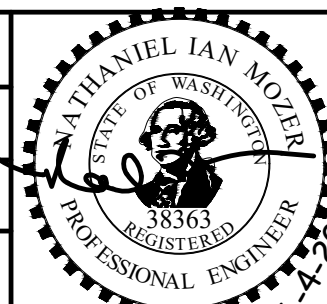


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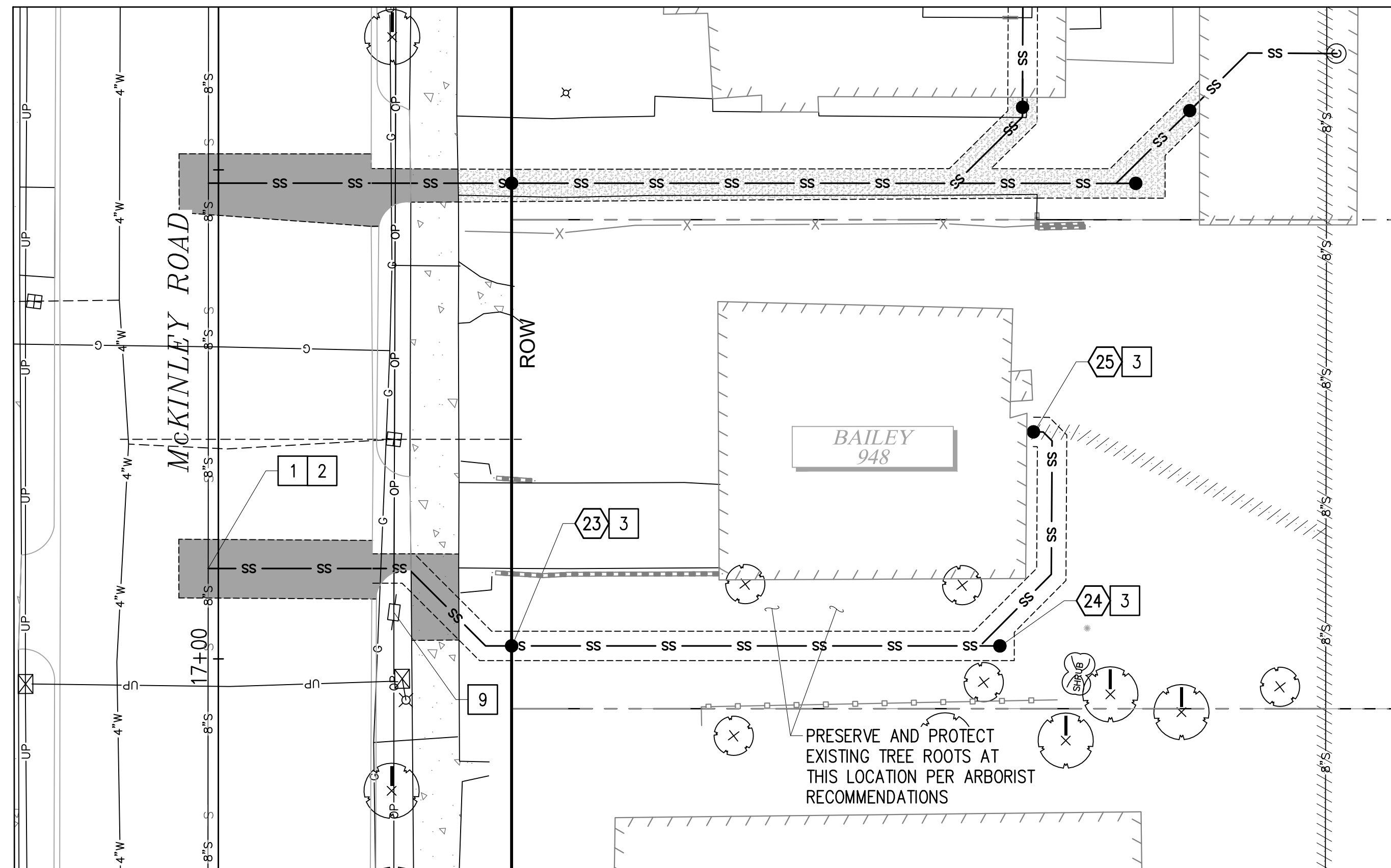
NO	REVISION	DATE	APPD

FINAL CONSTRUCTION CHECKED	DATE	SCALE
	05/24	1"=5'
DESIGNED	CHECKED	
EH	NIM	
DRAWN	PROJECT NAME	
EH	WWSS-MCKIN	
FIELD BOOKS	DRAWING NAME	
	952 McKinley Road.dwg	

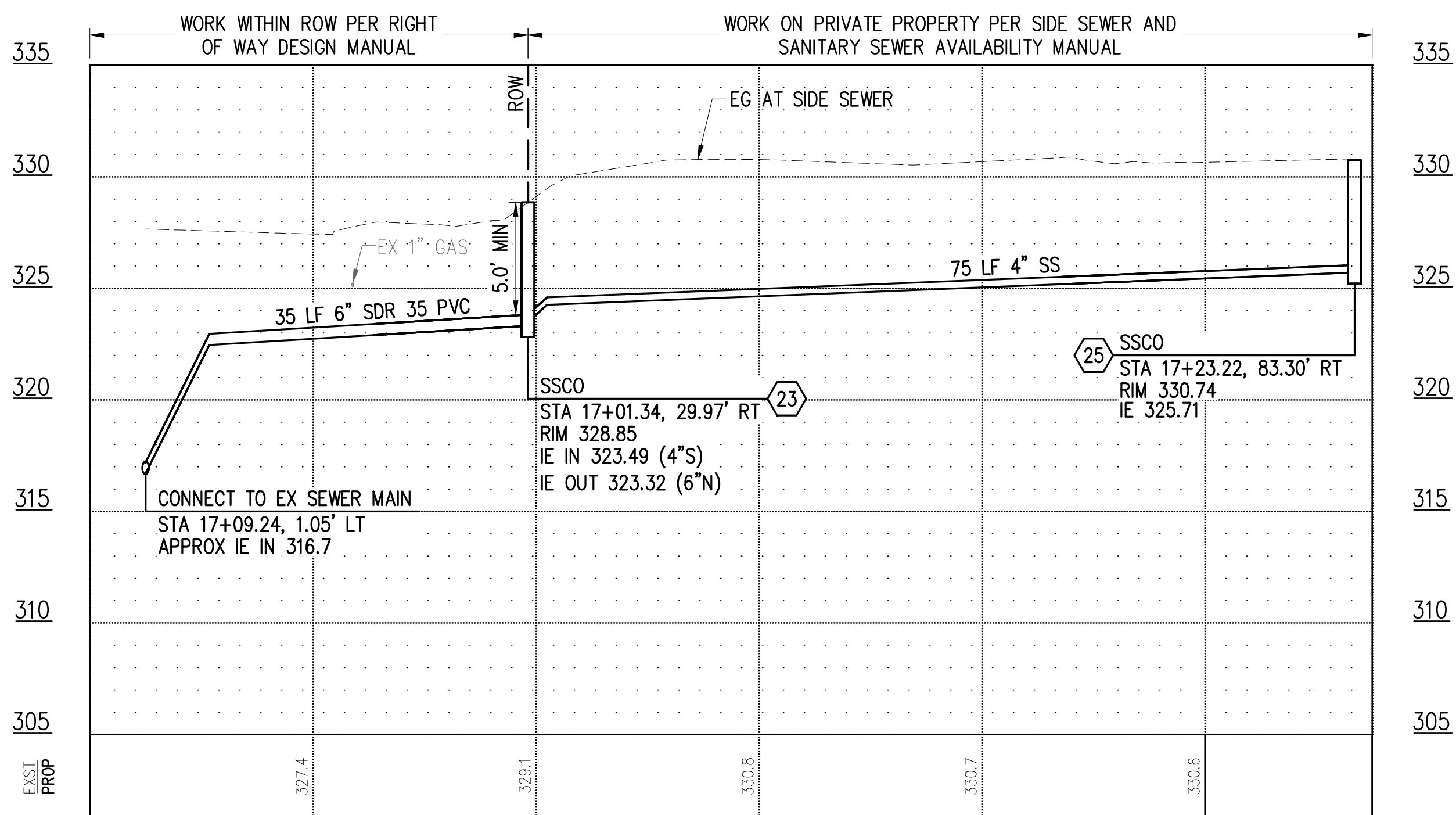


CITY OF TACOMA
ENVIRONMENTAL SERVICES DEPARTMENT
WASTEWATER SIDE SEWER IMPROVEMENTS MCKINLEY ROAD
PRIVATE IMPROVEMENT RESTORATION PLAN
944 MCKINLEY ROAD

SPEC. NO.	ES24-0034F
WBS NO.	ENV-04018-08 PWK-00438-46
SHEET NO.	22 OF 37



948 MCKINLEY RD
PLAN
 1" = 10'
 SCALE IN FEET



SIDE SEWER PROFILE
 HOR: 1"=10' VER: 1"=5'

CONSTRUCTION NOTES

- 1 CONNECT TO EXISTING SEWER MAIN PER COT STANDARD PLAN SU-23.
- 2 CONSTRUCT PVC SIDE SEWER PER THE COT SIDE SEWER AND SANITARY SEWER AVAILABILITY MANUAL.
- 3 CONSTRUCT CLEANOUT PER COT STANDARD PLAN SU-24.
- 9 LUMINAIRE/UTILITY POLE - COORDINATE WITH TPU (SEE SPECIAL PROVISION 1-07.17).

LEGEND

- TEMPORARY HMA PATCH PER DETAIL 2, SHEET 37
- TEMPORARY CSTC TRENCH PATCH PER DETAIL 3, SHEET 37
- SIDE SEWER
- SS CLEANOUT
- SS CLEANOUT NUMBER

SIDE SEWER CONSTRUCTION STANDARDS

1. PIPE SIZE SHALL BE A MINIMUM OF 6" WITHIN ROW AND MINIMUM OF 4" ON PRIVATE PROPERTY.
2. SIDE SEWER MINIMUM PIPE SLOPE IS 2.0%.
3. SIDE SEWERS SHALL HAVE A MINIMUM DEPTH OF 5' AT THE ROW LINE.
4. CLEANOUTS SHALL BE REQUIRED AT THE FOLLOWING LOCATIONS:
 - APPROXIMATELY 2' FROM THE BUILDING AT THE CHANGE FROM BUILDING DRAIN TO SIDE SEWER.
 - EVERY 135 DEGREES OF TOTAL BEND (INCLUDING HORZ. AND VERT.).
 - EVERY 100' OF PIPE RUN.
 - EVERY CHANGE OF PIPE SIZE.
 - AT THE PROPERTY LINE.
5. PIPE SHALL HAVE MINIMUM DEPTH OF COVER OF 3' IN DRIVING AREAS.

GENERAL NOTES

1. THE HORIZONTAL AND VERTICAL SIDE SEWER CONFIGURATION SHOWN ON THIS SHEET IS APPROXIMATE BASED ON THE INFORMATION AVAILABLE DURING DESIGN. THE CONTRACTOR MAY, WITH THE APPROVAL OF THE CONSTRUCTION INSPECTOR, ADJUST THE SIDE SEWER ALIGNMENT AS NEEDED TO BETTER ACCOMMODATE CONSTRUCTION METHODS AND CONDITIONS EXPERIENCED DURING CONSTRUCTION.
2. ALL EXISTING UTILITY INFORMATION INCLUDING MATERIAL, DEPTH, AND LOCATION ARE BASED ON AVAILABLE INFORMATION WITHOUT POT-HOLING AND IS SOLELY FOR THE CONTRACTOR'S BENEFIT. INVERT ELEVATIONS FOR UTILITY CROSSINGS SHOWN ON PROFILES ARE ESTIMATED BASED ON RECORD DRAWINGS, GIS, OR OTHER DATA AND MAY NOT BE ACCURATE. INVERT ELEVATIONS FOR SOME UTILITY CROSSINGS ARE NOT AVAILABLE; THESE UTILITIES ARE SHOWN ON THE PROFILES IN THEIR APPROX. HORIZONTAL LOCATION TO ALERT THE CONTRACTOR OF THEIR EXISTENCE. THE CONTRACTOR SHALL POT-HOLE UTILITY CROSSINGS & CONNECTION POINTS AT THE LOCATIONS SPECIFIED HEREIN A MINIMUM OF 5 WORKING DAYS PRIOR TO BEGINNING UTILITY IMPROVEMENTS TO VERIFY HORIZONTAL/VERTICAL LOCATION AND MATERIAL. CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IN THE EVENT OF CONFLICT.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING ALL PIPE AND FITTINGS REQUIRED TO REALIGN PLUMBING WITHIN EXISTING BASEMENTS/CRAWL SPACES WHERE SPECIFIED ON THE PLANS.
4. SIDE SEWERS WITHIN 10' HORIZONTALLY OR 18" VERTICALLY OF EXISTING WATER SERVICE SHALL BE CONSTRUCTED WITH C900 PVC SEWER PIPE.
5. THE EXISTING SIDE SEWER PIPE MATERIAL(S) IS UNKNOWN. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXISTING PIPE MATERIALS AND PROVIDING AN APPROPRIATE COUPLING TO TRANSITION FROM EXISTING TO PROPOSED SIDE SEWER PIPE.
6. CONSTRUCTION MAY REQUIRE EXCAVATION WITHIN 10 FEET OF UTILITY POLES. WHERE ANTICIPATED, CONTRACTOR SHALL CONTACT TACOMA POWER (253) 502-8991 AT LEAST 2 WEEKS IN ADVANCE OF ANY CONSTRUCTION ACTIVITY WITHIN 10 FEET OF AN EXISTING POLE TO COORDINATE AN ONSITE VISIT WITH A TPU FIELD INSPECTOR. SEE SPECIAL PROVISION SECTION 1-07.17 FOR ADDITIONAL DETAIL AND REQUIREMENTS.
7. CONSTRUCTION WILL REQUIRE EXCAVATION IMMEDIATELY ADJACENT TO EXISTING BUILDING AND STRUCTURES, THE MAJORITY OF WHICH WERE CONSTRUCTED IN THE 1920'S. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PRESERVE AND PROTECT ALL BUILDINGS AND STRUCTURES AND TO MAKE SURE CONSTRUCTION METHODS, SHORING METHODS, AND COMPACTION METHODS ARE APPROPRIATE GIVEN THE LOCATION OF THE CONSTRUCTION AREA.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING EXISTING UTILITIES ON PRIVATE PROPERTY.

DATE: 04/20/24 2:53 PM PATH: K:\TACOMA\17042-DRAFTING SUPPORT\CPH\17042\M\10\MCKINLEY\CONTRACT DWG\SS\SSHEETS\01_LAYOUT_SS (9) 948 MCKINLEY RD FILE: ENV\04018-08-05 SIDE SEWERS 01_LAYOUT_SS (9) 948 MCKINLEY RD

CALL 2 DAYS BEFORE YOU DIG
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BID DOCUMENT



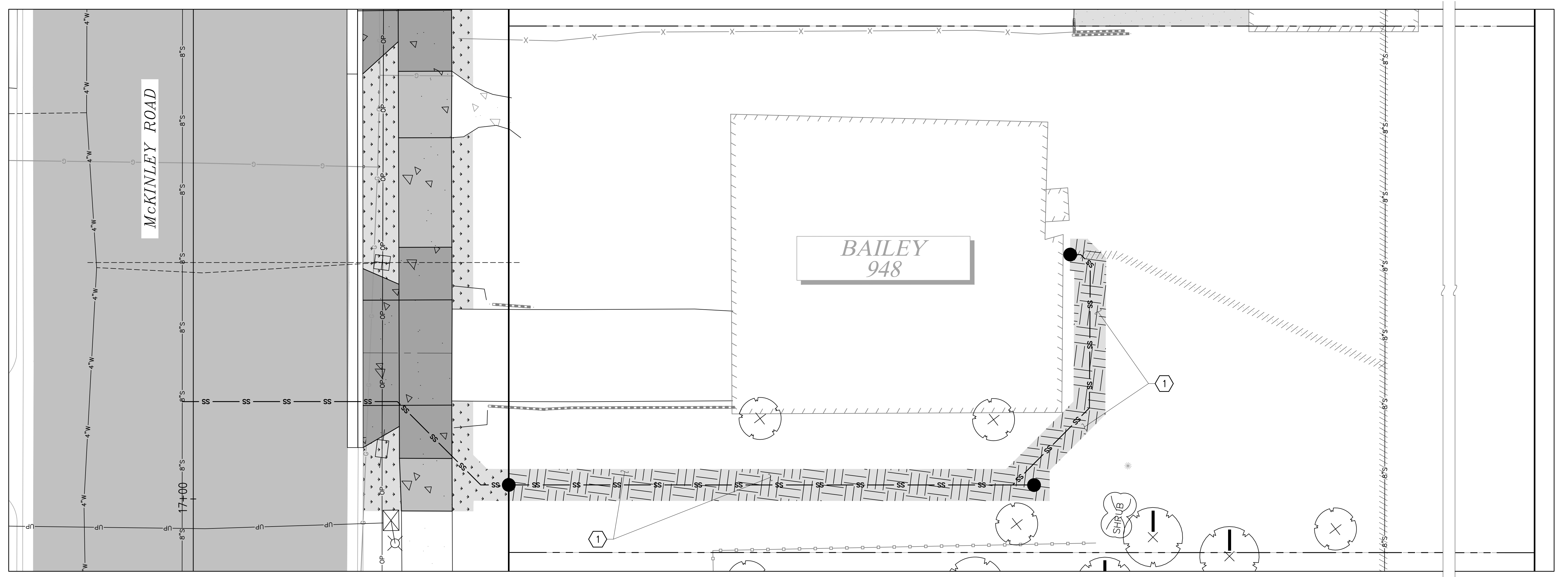
NO.	REVISION	DATE	APPD.

FINAL CONSTRUCTION CHECKED	DATE: 05/24	SCALE: AS NOTED
DESIGNED	BY: EH	CHECKED: NIM
DRAWN	DATE: EH	PROJECT NAME: WWSS-MCKIN
FIELD BOOKS	DRAWING NAME: ENV-04018-08-05 Side Sewers 01.dwg	PROFESSIONAL ENGINEER: MATTHEW IAN MOYER

CITY OF TACOMA
 ENVIRONMENTAL SERVICES DEPARTMENT
WASTEWATER SIDE SEWER IMPROVEMENTS MCKINLEY ROAD
 SIDE SEWER PLAN + PROFILE & TEMPORARY RESTORATION PLAN
 948 MCKINLEY ROAD

SPEC. NO.	ES24-0034F
RBS NO.	ENV-04018-08 PWK-00438-46
SHEET NO.	23 OF 37

DATE: 04/20/24 2:53 PM PATH: K:\TACOMA\17042-DRAFTING SUPPORT\01\17042\10\MCKINLEY\CONTRACT DWGS\SHEETFILES FILE: 948 MCKINLEY ROAD_LAYOUT.PRIV IMP (9) 948 MCKINLEY RD



**948 MCKINLEY RD
PLAN**

SCALE IN FEET

LEGEND

- HARD SURFACE RESTORATION ON PRIVATE PROPERTY, SEE NOTES, THIS SHEET
- SOFT SURFACE RESTORATION ON PRIVATE PROPERTY, SEE NOTES, THIS SHEET
- PLANTER STRIP/LAWN WITHIN ROW

GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE DIRECTLY WITH PROPERTY OWNER AND CITY INSPECTOR TO CONFIRM THE LOCATIONS AND TYPES OF MATERIALS TO USE DURING RESTORATION PRIOR TO BEGINNING THE WORK.
2. FOR RESTORATION WITHIN ROW SEE SHEETS 29-31.

CONSTRUCTION NOTES

- RESTORE LAWN PER RESTORATION TABLE, SHEET 37.

**CALL 2 DAYS
BEFORE YOU DIG
1-800-424-5555**

**BID
DOCUMENT**

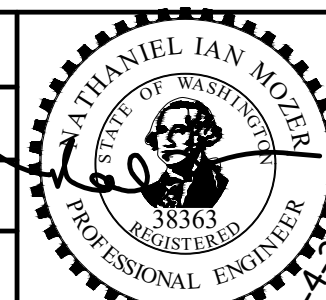


Tacoma
2502 Jefferson Avenue
Tacoma, WA 98402 253.627.0720
Seattle | Wenatchee | KPG.com



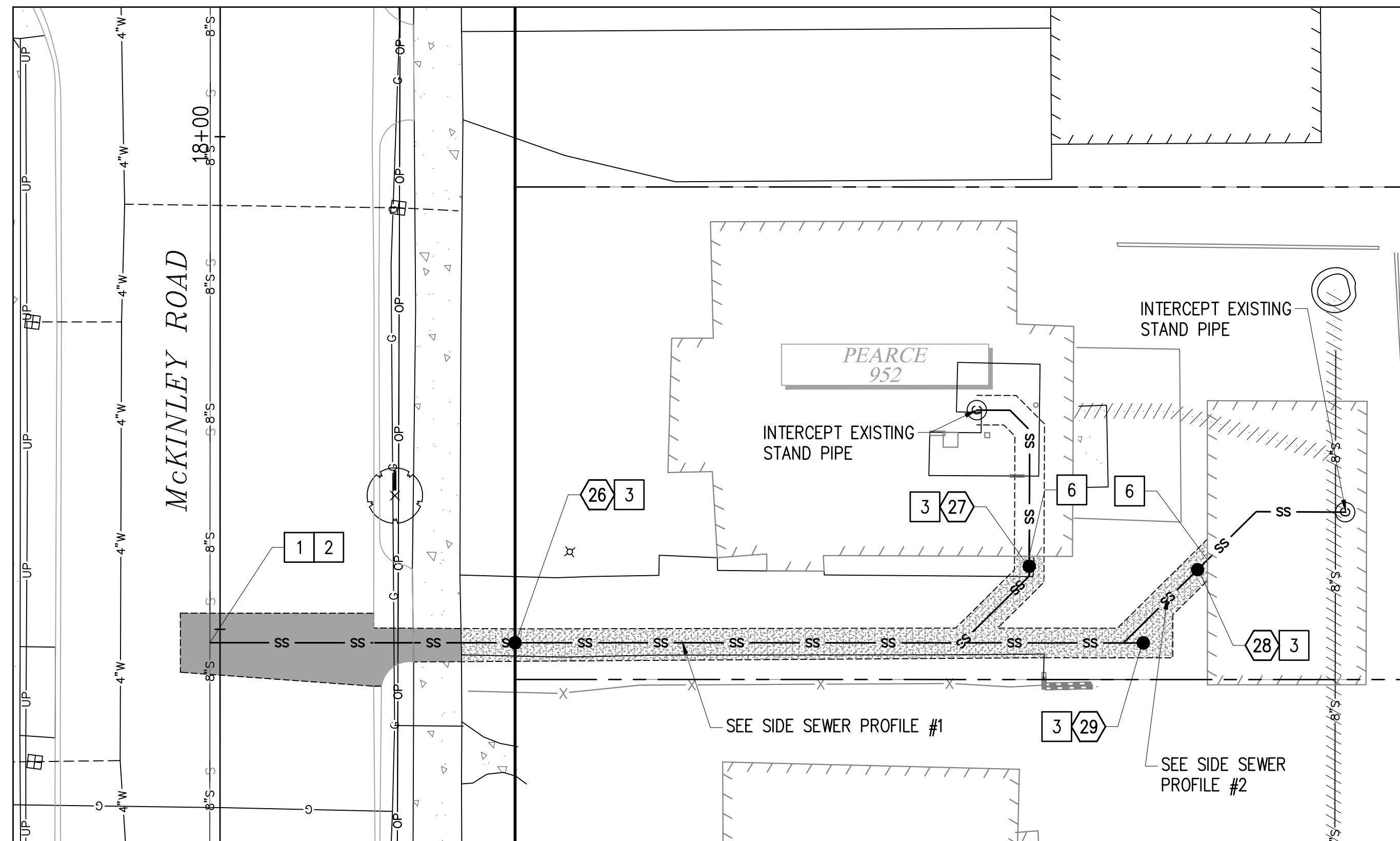
NO	REVISION	DATE	APPD

FINAL CONSTRUCTION CHECKED	DATE	SCALE
	05/24	1"=5'
BY	DESIGNED	CHECKED
	EH	NIM
DATE	DRAWN	PROJECT NAME
	EH	WWSS-MCKIN
FIELD BOOKS	DRAWING NAME	
	948 McKinley Road.dwg	



CITY OF TACOMA
ENVIRONMENTAL SERVICES DEPARTMENT
WASTEWATER SIDE SEWER IMPROVEMENTS MCKINLEY ROAD
PRIVATE IMPROVEMENT RESTORATION PLAN
948 MCKINLEY ROAD

SPEC. NO.	ES24-0034F
WBS NO.	ENV-04018-08 PWK-00438-46
SHEET NO.	24 OF 37



**952 MCKINLEY RD
PLAN**
1" = 10'
SCALE IN FEET

CONSTRUCTION NOTES

- 1 CONNECT TO EXISTING SEWER MAIN PER COT STANDARD PLAN SU-23.
- 2 CONSTRUCT PVC SIDE SEWER PER THE COT SIDE SEWER AND SANITARY SEWER AVAILABILITY MANUAL.
- 3 CONSTRUCT CLEANOUT PER COT STANDARD PLAN SU-24.
- 6 CORE THROUGH EXISTING FOUNDATION AND INSTALL APPROPRIATELY SIZED LINK SEAL TO PROVIDE WATER TIGHT PENETRATION.

LEGEND

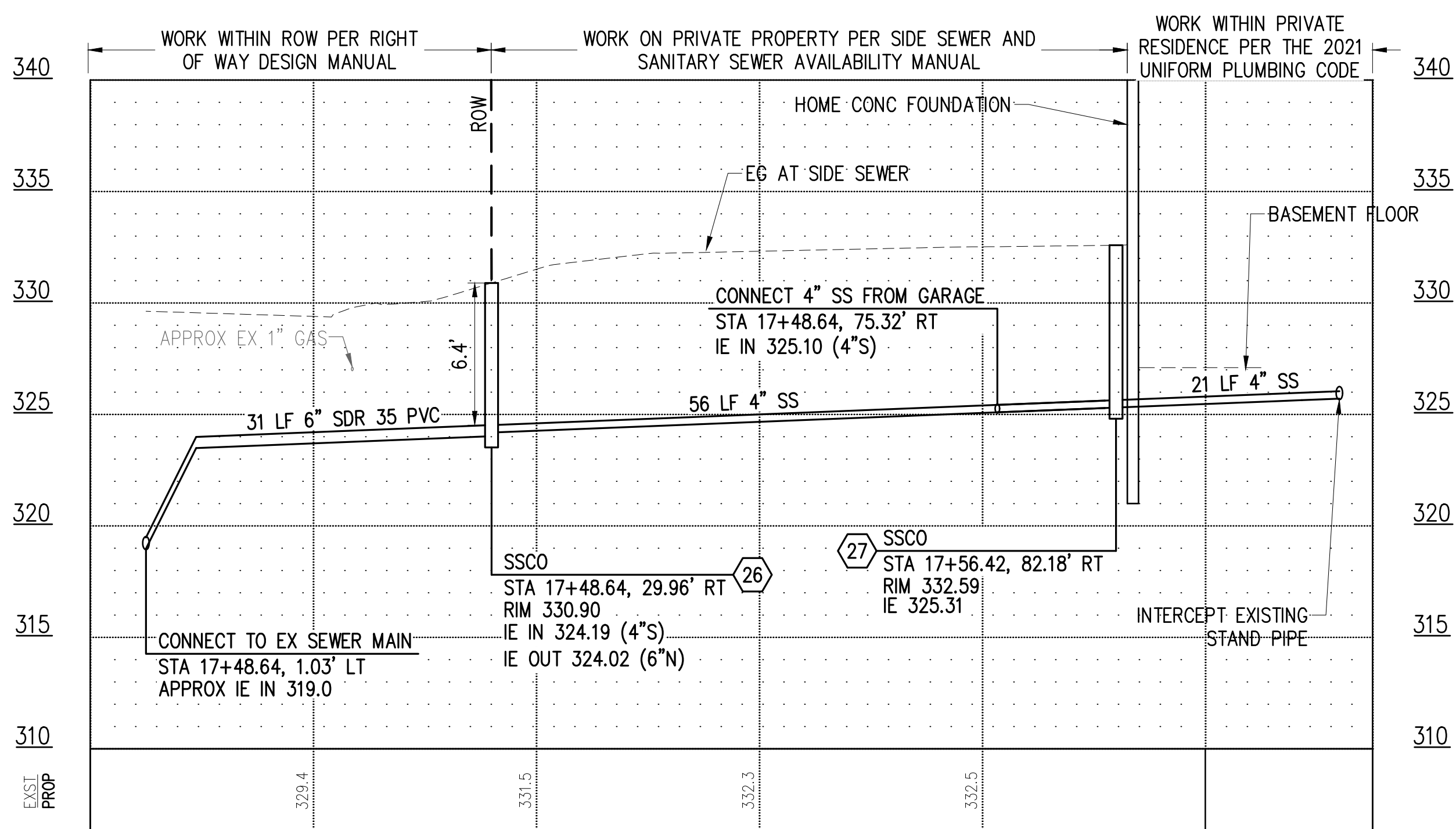
- TEMPORARY HMA PATCH PER DETAIL 2, SHEET 37
- TEMPORARY CSTC TRENCH PATCH PER DETAIL 3, SHEET 37
- SIDE SEWER
- SS CLEANOUT
- SS CLEANOUT NUMBER

SIDE SEWER CONSTRUCTION STANDARDS

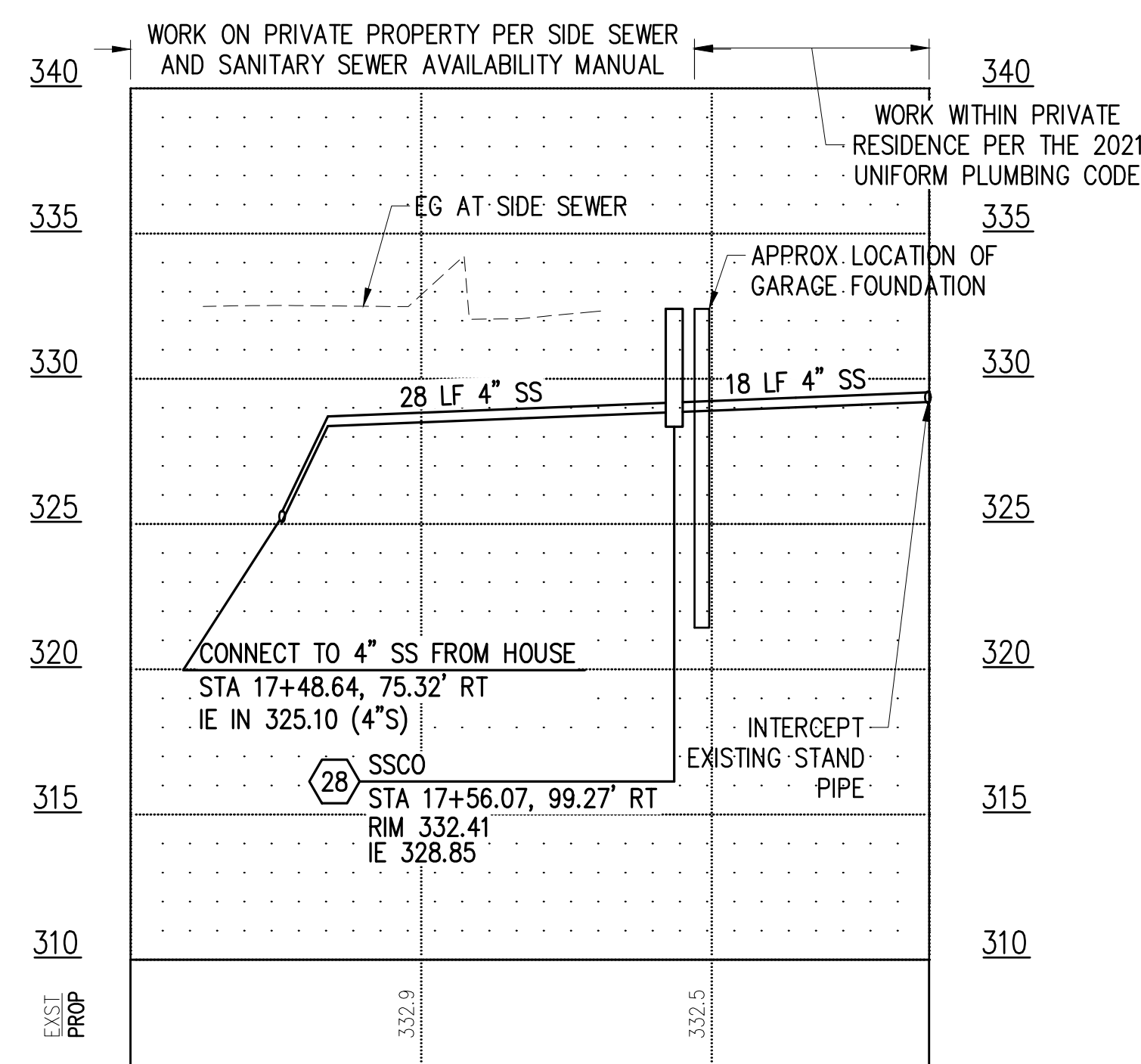
1. PIPE SIZE SHALL BE A MINIMUM OF 6" WITHIN ROW AND MINIMUM OF 4" ON PRIVATE PROPERTY.
2. SIDE SEWER MINIMUM PIPE SLOPE IS 2.0%.
3. SIDE SEWERS SHALL HAVE A MINIMUM DEPTH OF 5' AT THE ROW LINE.
4. CLEANOUTS SHALL BE REQUIRED AT THE FOLLOWING LOCATIONS:
 - APPROXIMATELY 2' FROM THE BUILDING AT THE CHANGE FROM BUILDING DRAIN TO SIDE SEWER.
 - EVERY 135 DEGREES OF TOTAL BEND (INCLUDING HORZ. AND VERT.).
 - EVERY 100' OF PIPE RUN.
 - EVERY CHANGE OF PIPE SIZE.
 - AT THE PROPERTY LINE.
5. PIPE SHALL HAVE MINIMUM DEPTH OF COVER OF 3' IN DRIVING AREAS.

GENERAL NOTES

1. THE HORIZONTAL AND VERTICAL SIDE SEWER CONFIGURATION SHOWN ON THIS SHEET IS APPROXIMATE BASED ON THE INFORMATION AVAILABLE DURING DESIGN. THE CONTRACTOR MAY, WITH THE APPROVAL OF THE CONSTRUCTION INSPECTOR, ADJUST THE SIDE SEWER ALIGNMENT AS NEEDED TO BETTER ACCOMMODATE CONSTRUCTION METHODS AND CONDITIONS EXPERIENCED DURING CONSTRUCTION.
2. ALL EXISTING UTILITY INFORMATION INCLUDING MATERIAL, DEPTH, AND LOCATION ARE BASED ON AVAILABLE INFORMATION WITHOUT POTHOLING AND IS SOLELY FOR THE CONTRACTOR'S BENEFIT. INVERT ELEVATIONS FOR UTILITY CROSSINGS SHOWN ON PROFILES ARE ESTIMATED BASED ON RECORD DRAWINGS, GIS, OR OTHER DATA AND MAY NOT BE ACCURATE. INVERT ELEVATIONS FOR SOME UTILITY CROSSINGS ARE NOT AVAILABLE; THESE UTILITIES ARE SHOWN ON THE PROFILES IN THEIR APPROX. HORIZONTAL LOCATION TO ALERT THE CONTRACTOR OF THEIR EXISTENCE. THE CONTRACTOR SHALL POTHOLE UTILITY CROSSINGS & CONNECTION POINTS AT THE LOCATIONS SPECIFIED HEREIN A MINIMUM OF 5 WORKING DAYS PRIOR TO BEGINNING UTILITY IMPROVEMENTS TO VERIFY HORIZONTAL/VERTICAL LOCATION AND MATERIAL. CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IN THE EVENT OF CONFLICT.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING ALL PIPE AND FITTINGS REQUIRED TO REALIGN PLUMBING WITHIN EXISTING BASEMENTS/CRAWL SPACES WHERE SPECIFIED ON THE PLANS.
4. SIDE SEWERS WITHIN 10' HORIZONTALLY OR 18" VERTICALLY OF EXISTING WATER SERVICE SHALL BE CONSTRUCTED WITH C900 PVC SEWER PIPE.
5. THE EXISTING SIDE SEWER PIPE MATERIAL(S) IS UNKNOWN. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXISTING PIPE MATERIALS AND PROVIDING AN APPROPRIATE COUPLING TO TRANSITION FROM EXISTING TO PROPOSED SIDE SEWER PIPE.
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8. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING EXISTING UTILITIES ON PRIVATE PROPERTY.



SIDE SEWER PROFILE #1
HOR: 1"=10' VER: 1"=5'



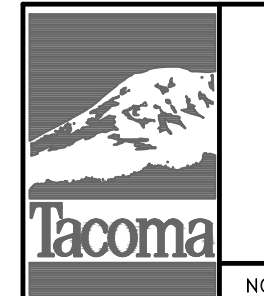
SIDE SEWER PROFILE #2
HOR: 1"=10' VER: 1"=5'

- NOTES:
1. FINISHED FLOOR ELEVATIONS INTERNAL WITHIN THE HOME SHOWN ON THE PROFILE ARE BASED ON LIMITED SURVEY AND ARE APPROXIMATE.
 2. BOTTOM OF FLOOR JOIST ELEVATION IN THE BASEMENT IS UNKNOWN.
 3. BOTTOM OF FLOOR JOIST ELEVATION IN THE GARAGE IS UNKNOWN.
 4. CONSTRUCTION OF THIS SIDE SEWER WILL REQUIRE EXCAVATING BELOW GRADE IN THE BASEMENT. CONTRACTOR SHALL SAWCUT THE CONC. FLOOR SLAB IN THE BASEMENT PRIOR TO CONC. REMOVAL.

DATE: 04/20/24 2:54 PM PATH: K:\TACOMA\17042-DRAFTING SUPPORT\CIP\17042\M\10\MCKINLEY\CONTRACT DWGS\SHEETS\FILES FILE: ENV\04018-08-05 PS SIDE SEWERS 02 LAYOUT: SS (10) 952 MCKINLEY RD

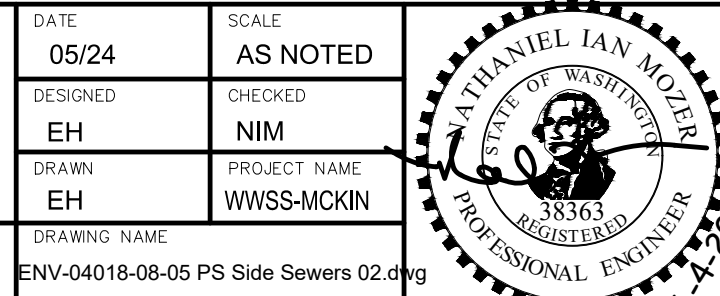
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DOCUMENT**



NO.	REVISION	DATE	APPD.

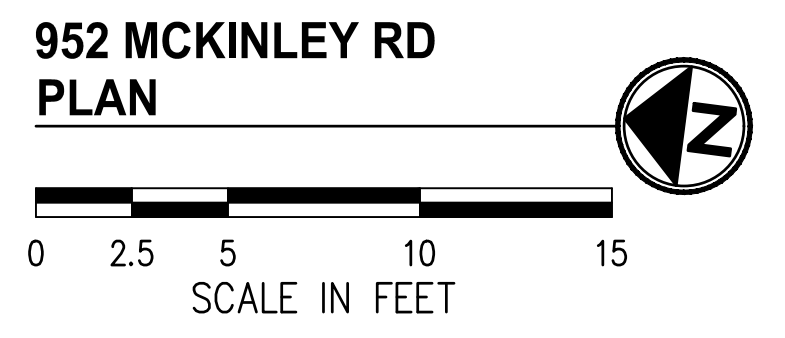
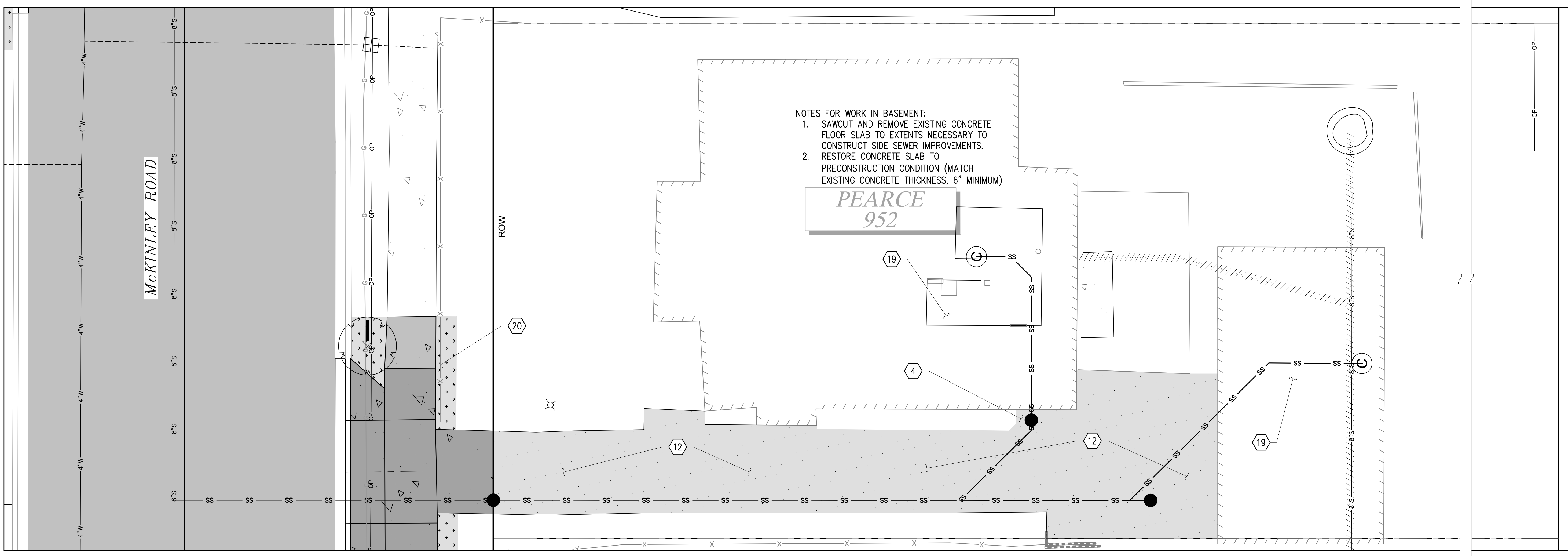
FINAL CONSTRUCTION CHECKED	DATE	SCALE
	05/24	AS NOTED
BY	CHECKED	
	EH	NIM
DATE	DRAWN	PROJECT NAME
	EH	WWSS-MCKIN
FIELD BOOKS	DRAWING NAME	
	ENV-04018-08-05 PS Side Sewers 02.dwg	



CITY OF TACOMA
ENVIRONMENTAL SERVICES DEPARTMENT
**WASTEWATER SIDE SEWER IMPROVEMENTS MCKINLEY ROAD
SIDE SEWER PLAN + PROFILE & TEMPORARY RESTORATION PLAN**
952 MCKINLEY ROAD

SPEC. NO.	ES24-0034F
PROJ. NO.	ENV-04018-08
SHEET NO.	PWK-00438-46
SHEET	25 OF 37

DATE: 04/20/24 2:55 PM PATH: K:\TACOMA\17042-DRAFTING SUPPORT\01\17042\MCKINLEY\CONTRACT DWGS\SS-SHEETFILES FILE: 952 MCKINLEY ROAD_LAYOUT.PRIV IMP (1) 952 MCKINLEY RD



LEGEND

- HARD SURFACE RESTORATION ON PRIVATE PROPERTY, SEE NOTES, THIS SHEET
- SOFT SURFACE RESTORATION ON PRIVATE PROPERTY, SEE NOTES, THIS SHEET
- PLANTER STRIP/LAWN WITHIN ROW

GENERAL NOTES

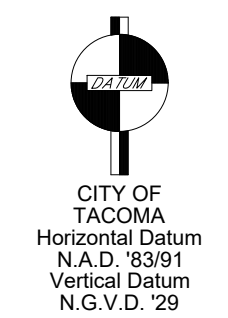
1. CONTRACTOR SHALL COORDINATE DIRECTLY WITH PROPERTY OWNER AND CITY INSPECTOR TO CONFIRM THE LOCATIONS AND TYPES OF MATERIALS TO USE DURING RESTORATION PRIOR TO BEGINNING THE WORK.
2. FOR RESTORATION WITHIN ROW SEE SHEETS 29-31.

CONSTRUCTION NOTES

- ④ REINSTALL SALVAGED BRICK PAVERS AT PRECONSTRUCTION LOCATION AND CONDITION OR REPLACE IN-KIND.
- ⑫ RECONSTRUCT DRIVEWAY APRON AT PRECONSTRUCTION LOCATION PER SECTION B, SHEET 36. APRON RESTORATION EXTENTS SHALL MATCH PRECONSTRUCTION EXTENTS. ADD EXPANSION JOINTS AT 8' SPACING.
- ⑰ RESTORE RESIDENCE TO PRECONSTRUCTION CONDITION. REMOVE ALL UNUSED CONSTRUCTION MATERIAL AND DEBRIS.
- ⑳ REINSTALL SALVAGED CHAIN LINK FENCE IN SAME CONDITION BEHIND PROPOSED SIDEWALK IMPROVEMENTS OR REPLACE IN-KIND.

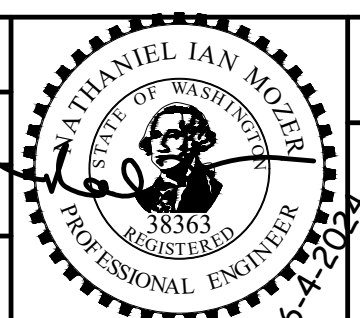
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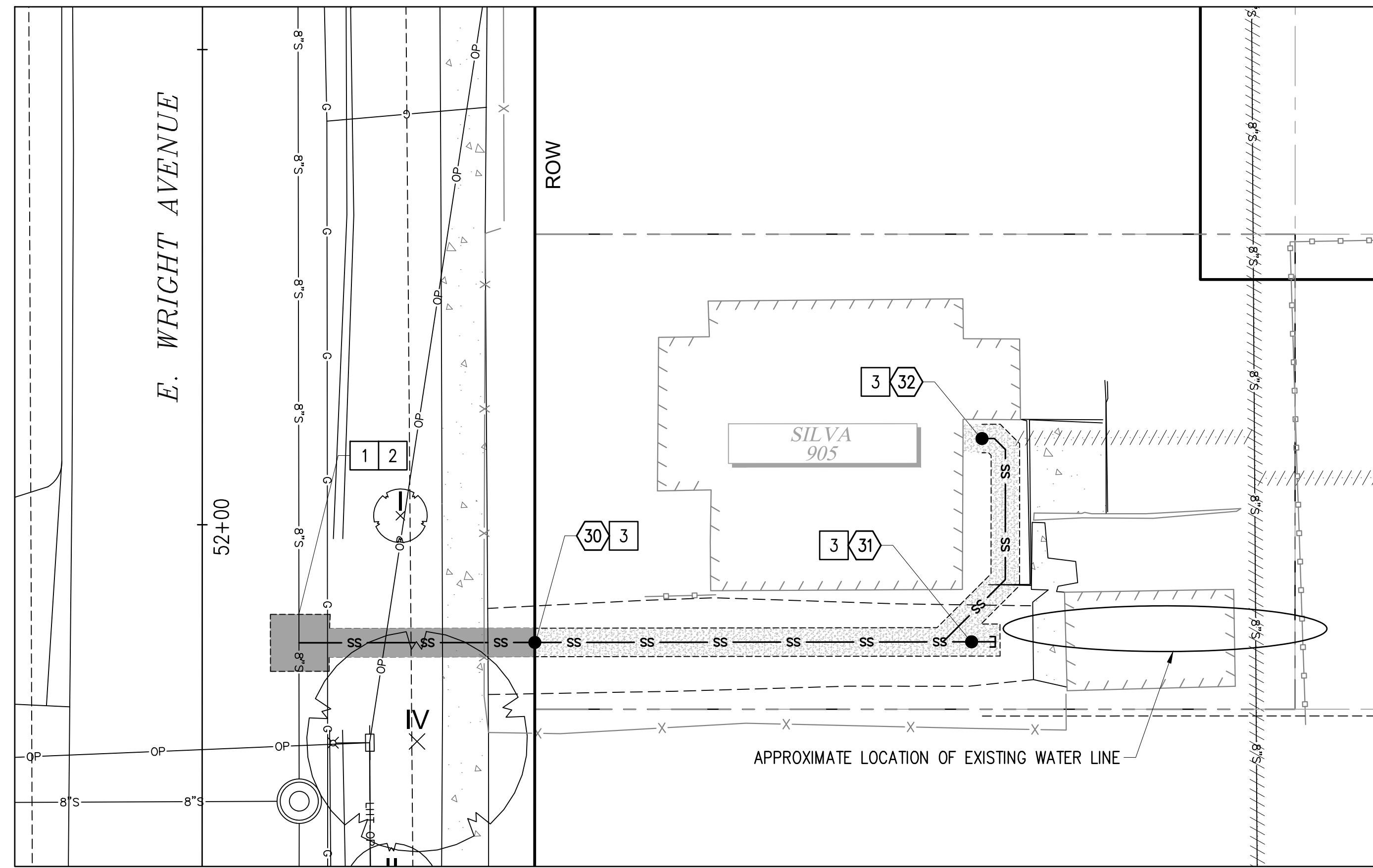
FINAL CONSTRUCTION CHECKED	DATE	SCALE
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DESIGNED	CHECKED	
EH	NIM	
DRAWN	PROJECT NAME	
EH	WWSS-MCKIN	
FIELD BOOKS	DRAWING NAME	
	952 McKinley Road.dwg	



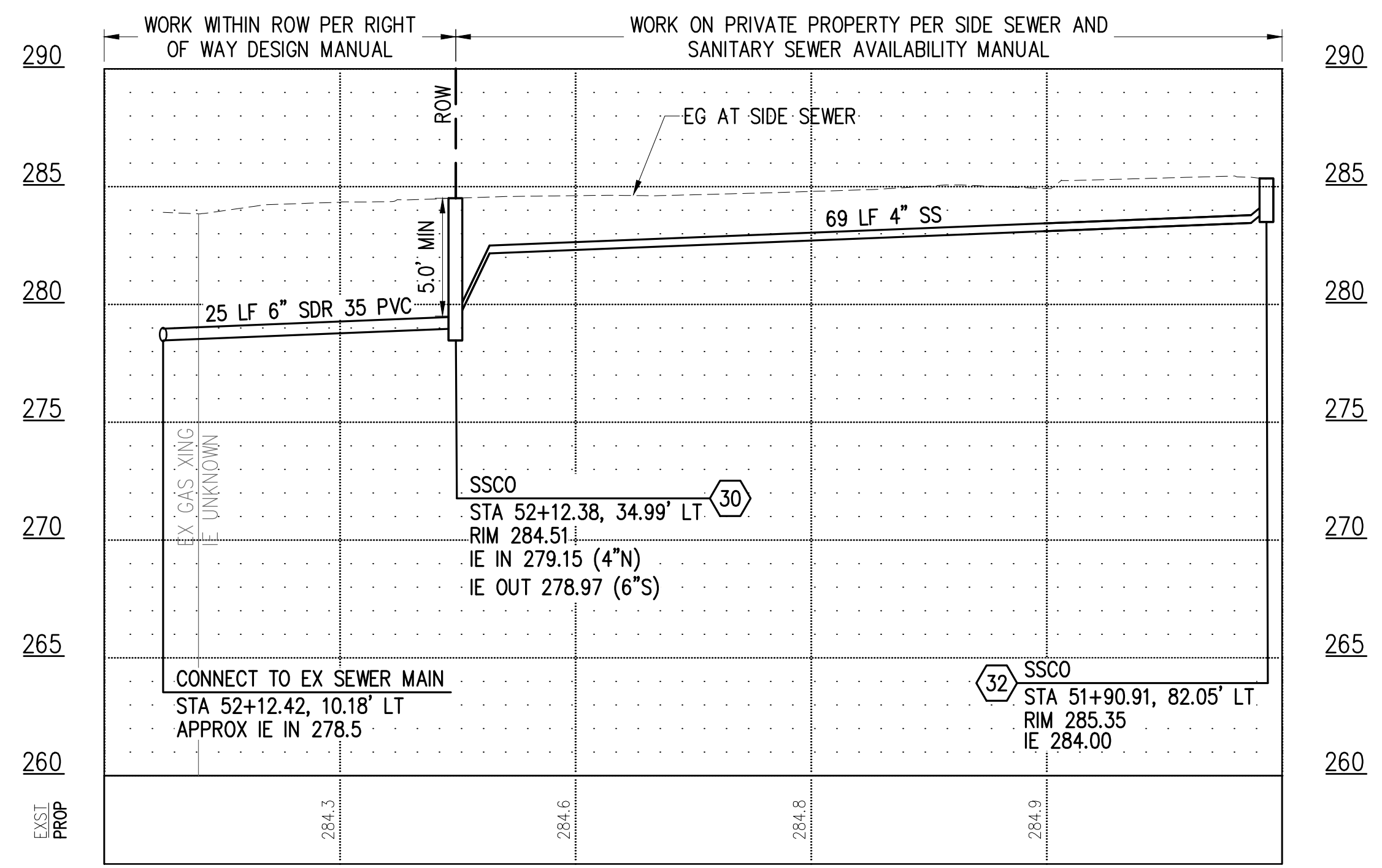
CITY OF TACOMA
ENVIRONMENTAL SERVICES DEPARTMENT
WASTEWATER SIDE SEWER IMPROVEMENTS MCKINLEY ROAD
PRIVATE IMPROVEMENT RESTORATION PLAN
952 MCKINLEY ROAD

SPEC. NO.	ES24-0034F
WBS NO.	ENV-04018-08 PWK-00438-46
SHEET NO.	26 OF 37

DATE: 04/20/24 2:55 PM PATH: K:\TACOMA\17042-DRAFTING SUPPORT\01\17042\10\MCKINLEY\CONTRACT DWGS\SHEETFILES FILE: ENV\04018-08-05 SIDE SEWERS 01 LAYOUT: SS (1) 905 E WRIGHT



905 E WRIGHT AVE
PLAN
 1" = 10'
 SCALE IN FEET



SIDE SEWER PROFILE
 HOR: 1"=10' VER: 1"=5'

CONSTRUCTION NOTES

- 1 CONNECT TO EXISTING SEWER MAIN PER COT STANDARD PLAN SU-23.
- 2 CONSTRUCT PVC SIDE SEWER PER THE COT SIDE SEWER AND SANITARY SEWER AVAILABILITY MANUAL.
- 3 CONSTRUCT CLEANOUT PER COT STANDARD PLAN SU-24.

LEGEND

- TEMPORARY HMA PATCH PER DETAIL 2, SHEET 37
- TEMPORARY CSTC TRENCH PATCH PER DETAIL 3, SHEET 37
- SIDE SEWER
- SS CLEANOUT
- SS CLEANOUT NUMBER

SIDE SEWER CONSTRUCTION STANDARDS

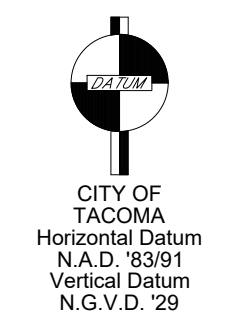
1. PIPE SIZE SHALL BE A MINIMUM OF 6" WITHIN ROW AND MINIMUM OF 4" ON PRIVATE PROPERTY.
2. SIDE SEWER MINIMUM PIPE SLOPE IS 2.0%.
3. SIDE SEWERS SHALL HAVE A MINIMUM DEPTH OF 5' AT THE ROW LINE.
4. CLEANOUTS SHALL BE REQUIRED AT THE FOLLOWING LOCATIONS:
 - APPROXIMATELY 2' FROM THE BUILDING AT THE CHANGE FROM BUILDING DRAIN TO SIDE SEWER.
 - EVERY 135 DEGREES OF TOTAL BEND (INCLUDING HORZ. AND VERT.).
 - EVERY 100' OF PIPE RUN.
 - EVERY CHANGE OF PIPE SIZE.
 - AT THE PROPERTY LINE.
5. PIPE SHALL HAVE MINIMUM DEPTH OF COVER OF 3' IN DRIVING AREAS.

GENERAL NOTES

1. THE HORIZONTAL AND VERTICAL SIDE SEWER CONFIGURATION SHOWN ON THIS SHEET IS APPROXIMATE BASED ON THE INFORMATION AVAILABLE DURING DESIGN. THE CONTRACTOR MAY, WITH THE APPROVAL OF THE CONSTRUCTION INSPECTOR, ADJUST THE SIDE SEWER ALIGNMENT AS NEEDED TO BETTER ACCOMMODATE CONSTRUCTION METHODS AND CONDITIONS EXPERIENCED DURING CONSTRUCTION.
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8. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING EXISTING UTILITIES ON PRIVATE PROPERTY.

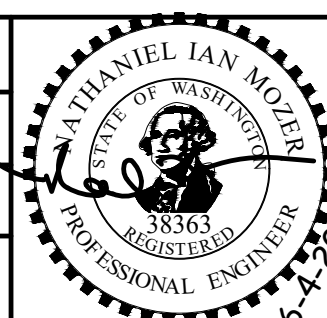
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NO.	REVISION	DATE	APPD.

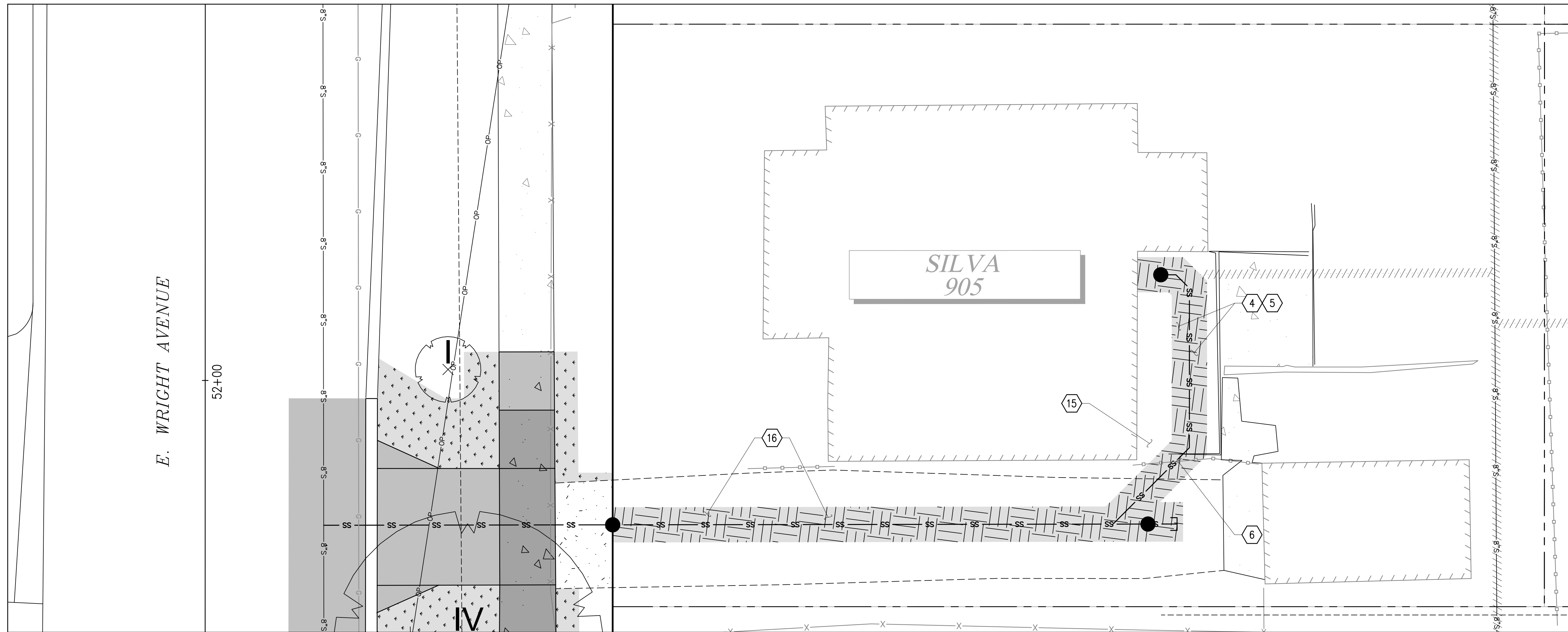
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DRAWN	PROJECT NAME	
EH	WWSS-MCKIN	
FIELD BOOKS	DRAWING NAME	
	ENV-04018-08-05 Side Sewers 01.dwg	



CITY OF TACOMA
 ENVIRONMENTAL SERVICES DEPARTMENT
WASTEWATER SIDE SEWER IMPROVEMENTS MCKINLEY ROAD
SIDE SEWER PLAN + PROFILE & TEMPORARY RESTORATION PLAN
 905 E WRIGHT AVENUE

SPEC. NO.	ES24-0034F
RBS NO.	ENV-04018-08 PWK-00438-46
SHEET NO.	27
OF	37

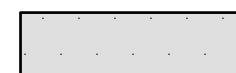

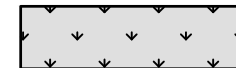
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**905 E WRIGHT AVE
PLAN**

0 2.5 5 10 15
SCALE IN FEET

LEGEND

-  HARD SURFACE RESTORATION ON PRIVATE PROPERTY, SEE NOTES, THIS SHEET
-  SOFT SURFACE RESTORATION ON PRIVATE PROPERTY, SEE NOTES, THIS SHEET
-  PLANTER STRIP/LAWN WITHIN ROW

GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE DIRECTLY WITH PROPERTY OWNER AND CITY INSPECTOR TO CONFIRM THE LOCATIONS AND TYPES OF MATERIALS TO USE DURING RESTORATION PRIOR TO BEGINNING THE WORK.
2. FOR RESTORATION WITHIN ROW SEE SHEETS 29-31.

CONSTRUCTION NOTES

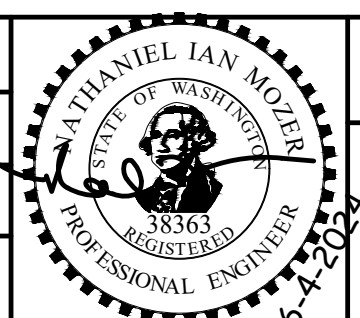
- ④ REINSTALL SALVAGED BRICK PAVERS AT PRECONSTRUCTION LOCATION AND CONDITION OR REPLACE IN-KIND.
- ⑤ REINSTALL SALVAGED LANDSCAPE BORDER AT PRECONSTRUCTION LOCATION AND CONDITION OR REPLACE IN-KIND.
- ⑥ REINSTALL SALVAGED WOOD FENCE & GATE AT PRECONSTRUCTION LOCATION AND CONDITION OR REPLACE IN-KIND.
- ⑮ REINSTALL SALVAGED WOODEN STEPS AT PRECONSTRUCTION LOCATION OR REPLACE IN-KIND.
- ⑯ RESTORE GRAVEL DRIVEWAY PER RESTORATION TABLE, SHEET 35.

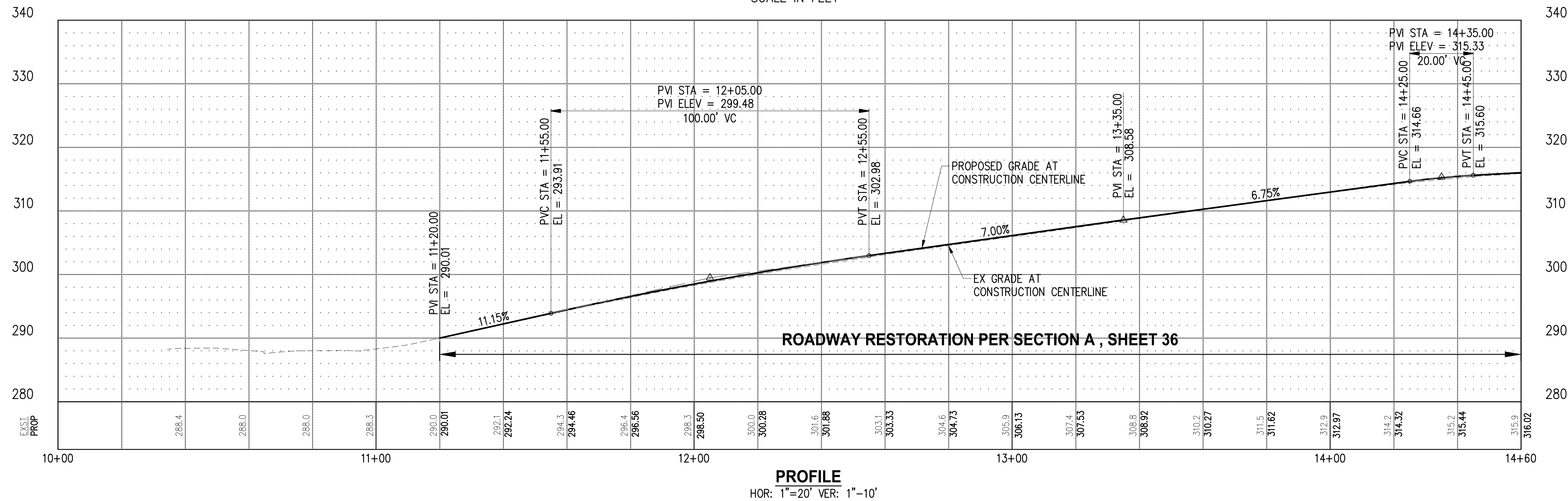
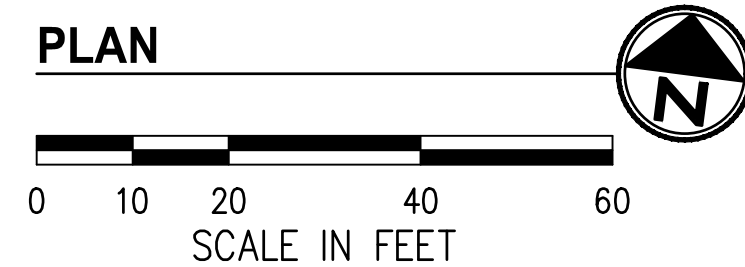
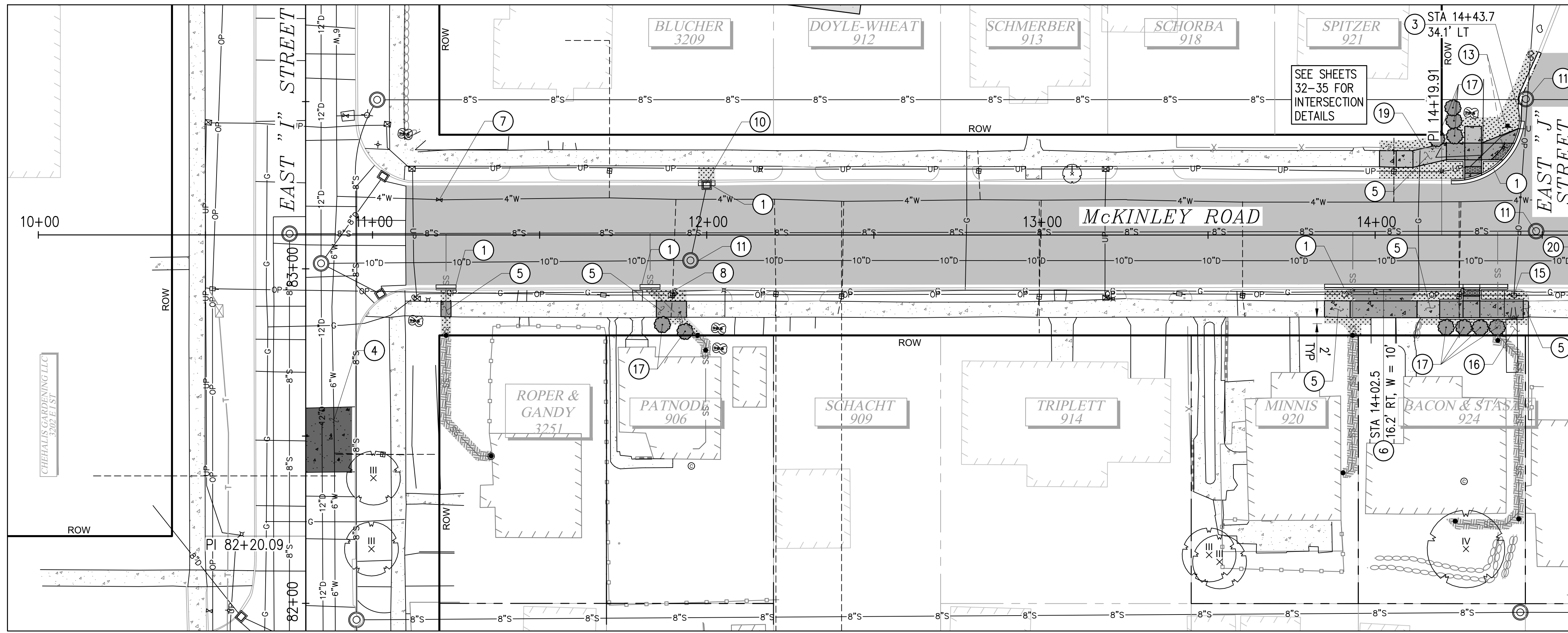
**CALL 2 DAYS
BEFORE YOU DIG
1-800-424-5555**

**BID
DOCUMENT**



NO		REVISION		DATE	APPD	<table border="1"> <tr> <td>FINAL CONSTRUCTION CHECKED</td> <td>DATE</td> <td>SCALE</td> </tr> <tr> <td></td> <td>05/24</td> <td>1"=5'</td> </tr> <tr> <td>DESIGNED</td> <td>EH</td> <td>NIM</td> </tr> <tr> <td>CHECKED</td> <td></td> <td></td> </tr> <tr> <td>DRAWN</td> <td>EH</td> <td>PROJECT NAME</td> </tr> <tr> <td></td> <td></td> <td>WWSS-MCKIN</td> </tr> <tr> <td>FIELD BOOKS</td> <td colspan="2">DRAWING NAME</td> </tr> <tr> <td></td> <td colspan="2">948 McKinley Road.dwg</td> </tr> </table>	FINAL CONSTRUCTION CHECKED	DATE	SCALE		05/24	1"=5'	DESIGNED	EH	NIM	CHECKED			DRAWN	EH	PROJECT NAME			WWSS-MCKIN	FIELD BOOKS	DRAWING NAME			948 McKinley Road.dwg		<p>CITY OF TACOMA ENVIRONMENTAL SERVICES DEPARTMENT WASTEWATER SIDE SEWER IMPROVEMENTS MCKINLEY ROAD PRIVATE IMPROVEMENT RESTORATION PLAN 905 E WRIGHT AVENUE</p>	<p>SPEC. NO. ES24-0034F</p> <p>WBS NO. ENV-04018-08 PWK-00438-46</p> <p>SHEET NO. 28 OF 37</p>
FINAL CONSTRUCTION CHECKED	DATE	SCALE																														
	05/24	1"=5'																														
DESIGNED	EH	NIM																														
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DRAWN	EH	PROJECT NAME																														
		WWSS-MCKIN																														
FIELD BOOKS	DRAWING NAME																															
	948 McKinley Road.dwg																															





GENERAL NOTES

1. SEE SHEETS 8-28 FOR RESTORATION REQUIREMENTS BEYOND THE BACK OF WALK.
2. ALL AREAS DISTURBED BUT NOT SPECIFICALLY SHOWN FOR RESTORATION ON THE PLANS SHALL BE RESTORED PER THE RESTORATION TABLE, SHEET 37.
3. SEE SHEETS 32-35 FOR CURB RETURN AND RAMP LOCATIONS AND GRADING.
4. FOR TYPICAL SECTIONS AND PAVEMENT DEPTHS SEE SHEET 36.

CONSTRUCTION NOTES

1. CONSTRUCT CEMENT CONC. TRAFFIC CURB & GUTTER PER COT STANDARD PLAN SU-03.
3. CONSTRUCT TRANSITION FROM CEMENT CONC. CURB TO HMA WEDGE CURB PER DETAIL 1, SHEET 37.
4. CONSTRUCT CEMENT CONC. PAVEMENT WITH INTEGRAL CURB PER COT STANDARD PLAN SU-14C. INTEGRAL CEMENT CONC. TRAFFIC CURB SHALL BE PER COT STANDARD PLAN SU-03.
5. CONSTRUCT CEMENT CONC. SIDEWALK PER COT STANDARD PLAN SU-04.
6. CONSTRUCT CEMENT CONC. DRIVEWAY ENTRANCE AND ACCESS TYPE 1 PER COT STANDARD PLAN SU-07A.
7. ADJUST VALVE CHAMBER TO FINISHED GRADE. INSTALL COLLAR PER COT STANDARD PLAN SU-37.
8. ADJUST METER BOX TO FINISHED GRADE.
10. REMOVE EXISTING FRAME & GRATE AND INSTALL NEW VANED FRAME & GRATE (TO BE FURNISHED BY THE CITY). ADJUST TO FINISHED GRADE.
11. ADJUST MANHOLE TO FINISHED GRADE.
13. REPLACE EXISTING STREET NAME SIGNS (MATCH STYLE TO EXISTING SIGNS IN PLACE AT EAST K ST; BUT USE "900" FOR BOTH SIDES OF J ST SIGN). INSTALL REPLACED SIGNS PER COT STANDARD PLAN SU-34 USING NEW POST AND HARDWARE.
15. COORDINATE INSTALLATION OF SIDEWALK GUY FITTING WITH TPU.
16. REINSTALL SALVAGED LANDSCAPE BORDER OR REPLACE IN-KIND.
17. COORDINATE WITH INSPECTOR AND HOME OWNER TO REPLANT SALVAGED TREE/SHRUB BEHIND PROPOSED IMPROVEMENTS OR REPLACE IN-KIND.
19. REINSTALL SALVAGED CHAIN LINK FENCE OR REPLACE IN-KIND.
20. CONSTRUCT POURED MONUMENT.

LEGEND

- CEMENT CONCRETE SIDEWALK
- CEMENT CONCRETE CURB RAMP & DRIVEWAY
- CEMENT CONCRETE PAVEMENT
- HMA PAVEMENT RESTORATION AS SPECIFIED ON PLANS
- GRAVEL RESTORATION
- PLANTER STRIP/LAWN
- HARD SURFACE RESTORATION ON PRIVATE PROPERTY. SEE PRIVATE IMPROVEMENT RESTORATION PLANS, SHTS 8-28
- SOFT SURFACE RESTORATION ON PRIVATE PROPERTY. SEE PRIVATE IMPROVEMENT RESTORATION PLANS, SHTS 8-28
- CEMENT CONCRETE CURB AND GUTTER
- HMA WEDGE CURB
- REPLANT SALVAGED SHRUB/TREE

DATE: 04/20/24 2:56 PM PATH: K:\TACOMA\17042\17042\MCKINLEY\CONTRACT DWGS\SHEETFILES FILE: ENV\0418-08-05 PS PLAN & PROFILE LAYOUT: STA 10+00 TO STA 14+60

CALL 2 DAYS BEFORE YOU DIG
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BID DOCUMENT

Tacoma
2502 Jefferson Avenue
Tacoma, WA 98402 253.627.0720
Seattle | Wenatchee | KPG.com

CITY OF TACOMA
Horizontal Datum
N.A.D. '83/91
Vertical Datum
N.G.V.D. '28

NO.	REVISION	DATE	APPD.

FINAL CONSTRUCTION CHECKED	DATE: 05/24	SCALE: 1"=20'
DESIGNED	EH	CHECKED
DRAWN	EH	NIM
PROJECT NAME	WWSS-MCKIN	
DRAWING NAME	ENV-0418-08-05 PS Plan & Profile.dwg	

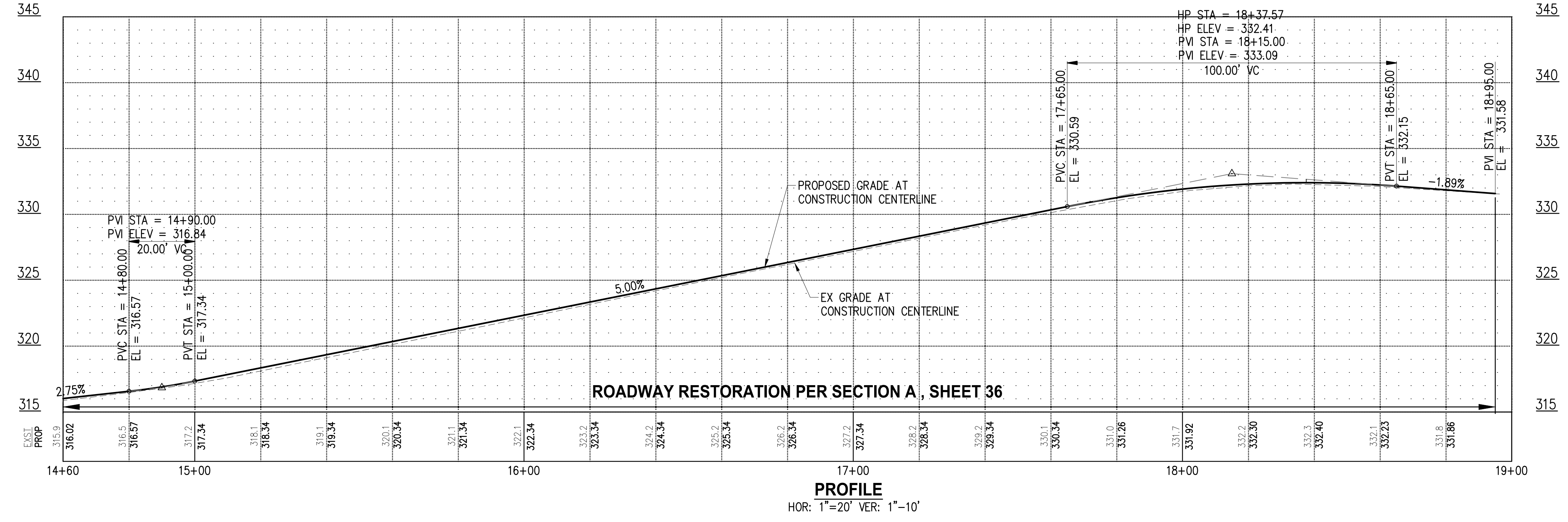
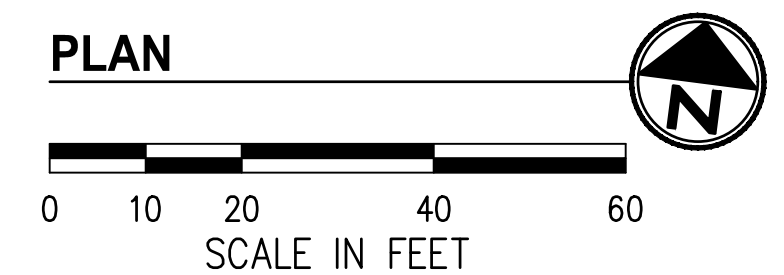
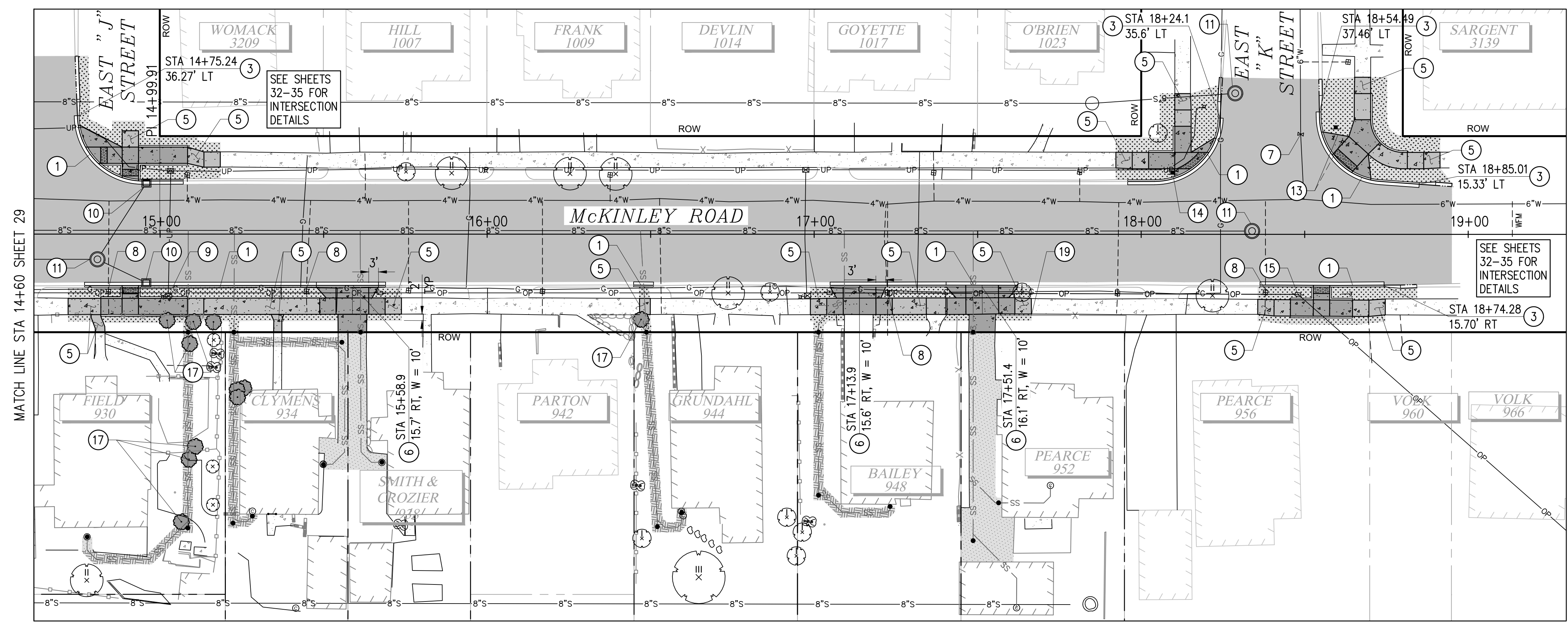
CITY OF TACOMA
ENVIRONMENTAL SERVICES DEPARTMENT
WASTEWATER SIDE SEWER IMPROVEMENTS MCKINLEY ROAD
MCKINLEY ROAD PLAN & PROFILE, ROW & RESTORATION PLAN
STA 10+00 TO STA 14+60

SPEC. NO. **ES24-0034F**

WBS NO. ENV-0418-08
PWK-00438-46

SHEET NO. 29 OF 37

DATE: 04/20/24 2:56 PM PATH: K:\TACOMA\17042\MCKINLEY\CONTRACT DWGS\SHEETFILES FILE: ENV\04018-08-05 PS PLAN & PROFILE LAYOUT: STA 14+60 TO STA 19+30



GENERAL NOTES

1. SEE SHEETS 8-28 FOR RESTORATION REQUIREMENTS BEYOND THE BACK OF WALK.
2. ALL AREAS DISTURBED BUT NOT SPECIFICALLY SHOWN FOR RESTORATION ON THE PLANS SHALL BE RESTORED PER THE RESTORATION TABLE, SHEET 37.
3. SEE SHEETS 32-35 FOR CURB RETURN AND RAMP LOCATIONS AND GRADING.
4. FOR TYPICAL SECTIONS AND PAVEMENT DEPTHS SEE SHEET 36.

CONSTRUCTION NOTES

1. CONSTRUCT CEMENT CONC. TRAFFIC CURB & GUTTER PER COT STANDARD PLAN SU-03.
3. CONSTRUCT TRANSITION FROM CEMENT CONC. CURB TO HMA WEDGE CURB PER DETAIL 1, SHEET 37.
5. CONSTRUCT CEMENT CONC. SIDEWALK PER COT STANDARD PLAN SU-04.
6. CONSTRUCT CEMENT CONC. DRIVEWAY ENTRANCE AND ACCESS TYPE 1 PER COT STANDARD PLAN SU-07A.
7. ADJUST VALVE CHAMBER TO FINISHED GRADE. INSTALL COLLAR PER COT STANDARD PLAN SU-37.
8. ADJUST METER BOX TO FINISHED GRADE.
9. ADJUST JUNCTION BOX TO FINISHED GRADE.
10. REMOVE EXISTING FRAME & GRATE AND INSTALL NEW VANED FRAME & GRATE (TO BE FURNISHED BY THE CITY). ADJUST TO FINISHED GRADE.
11. ADJUST MANHOLE TO FINISHED GRADE.
13. REPLACE EXISTING STREET NAME SIGNS (MATCH STYLE TO EXISTING SIGNS IN PLACE AT EAST K ST; BUT USE "900" FOR BOTH SIDES OF J ST SIGN). INSTALL REPLACED SIGNS PER COT STANDARD PLAN SU-34 USING NEW POST AND HARDWARE.
14. INSTALL TWO BACK-TO-BACK R9-3 (18" x 18") NO PEDESTRIAN CROSSING SIGNS PER COT STANDARD PLAN SU-34.
15. COORDINATE INSTALLATION OF SIDEWALK GUY FITTING WITH TPU.
17. COORDINATE WITH INSPECTOR AND HOME OWNER TO REPLANT SALVAGED TREE/SHRUB BEHIND PROPOSED IMPROVEMENTS OR REPLACE IN-KIND.
19. REINSTALL SALVAGED CHAIN LINK FENCE OR REPLACE IN-KIND.

LEGEND

- CEMENT CONCRETE SIDEWALK
- CEMENT CONCRETE CURB RAMP & DRIVEWAY
- CEMENT CONCRETE PAVEMENT
- HMA PAVEMENT RESTORATION AS SPECIFIED ON PLANS
- GRAVEL RESTORATION
- PLANTER STRIP/LAWN
- HARD SURFACE RESTORATION ON PRIVATE PROPERTY. SEE PRIVATE IMPROVEMENT RESTORATION PLANS, SHTS 8-28
- SOFT SURFACE RESTORATION ON PRIVATE PROPERTY. SEE PRIVATE IMPROVEMENT RESTORATION PLANS, SHTS 8-28
- CEMENT CONCRETE CURB AND GUTTER
- HMA WEDGE CURB
- REPLANT SALVAGED SHRUB/TREE

CALL 2 DAYS BEFORE YOU DIG
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Tacoma, WA 98402 253.627.0720
Seattle | Wenatchee | KPG.com

CITY OF TACOMA
Horizontal Datum
N.A.D. '83/91
Vertical Datum
N.G.V.D. '28

Tacoma

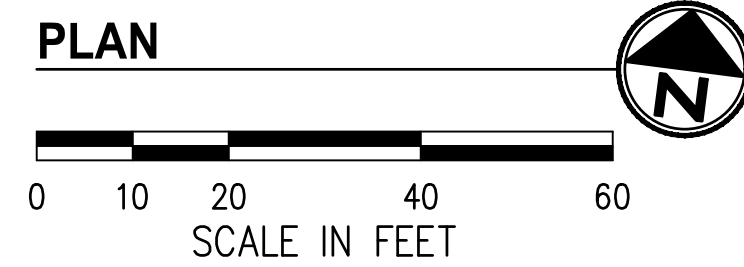
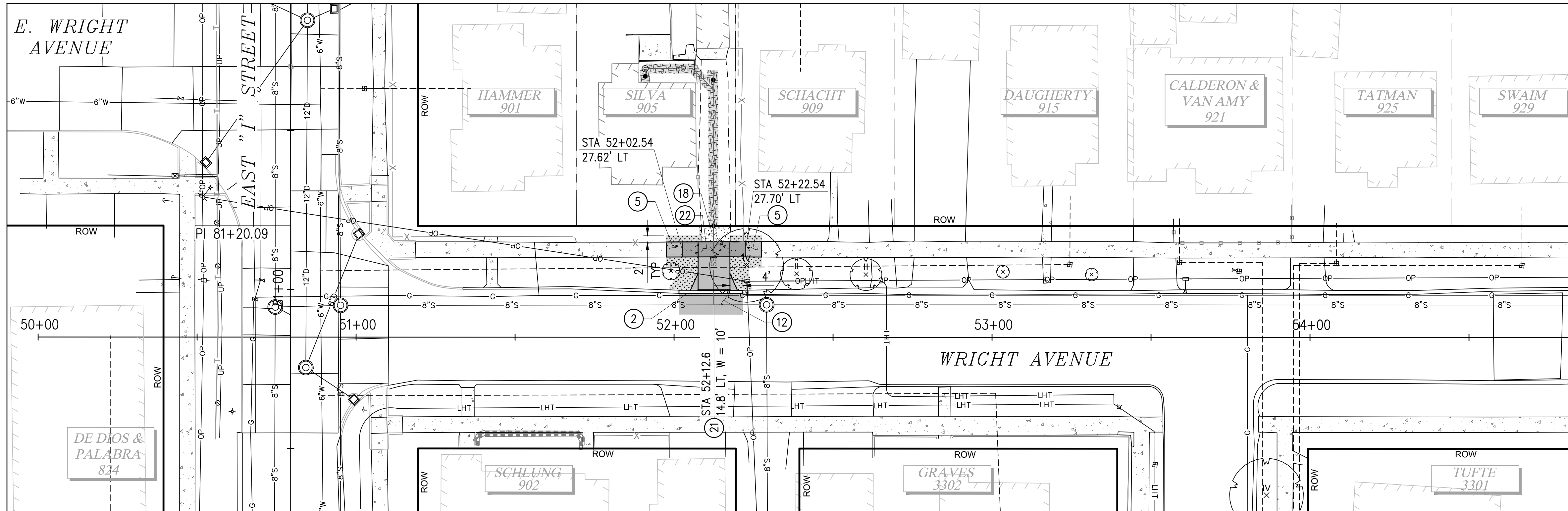
FINAL CONSTRUCTION CHECKED	DATE: 05/24	SCALE: 1"=20'
DESIGNED	EH	CHECKED: NIM
DRAWN	EH	PROJECT NAME: WWSS-MCKIN
DRAWING NAME: ENV-04018-08-05 PS Plan & Profile.dwg		

CITY OF TACOMA
ENVIRONMENTAL SERVICES DEPARTMENT
WASTEWATER SIDE SEWER IMPROVEMENTS MCKINLEY ROAD
MCKINLEY ROAD PLAN & PROFILE, ROW & RESTORATION PLAN
STA 14+60 TO STA 19+30

SPEC. NO. **ES24-0034F**

PROJECT NO. ENV-04018-08
PWK-00438-46

SHEET NO. 30 OF 37



GENERAL NOTES

- SEE SHEETS 8-28 FOR RESTORATION REQUIREMENTS BEYOND THE BACK OF WALK.
- ALL AREAS DISTURBED BUT NOT SPECIFICALLY SHOWN FOR RESTORATION ON THE PLANS SHALL BE RESTORED PER THE RESTORATION TABLE, SHEET 37.
- SEE SHEETS 32-35 FOR CURB RETURN AND RAMP LOCATIONS AND GRADING.
- FOR TYPICAL SECTIONS AND PAVEMENT DEPTHS SEE SHEET 36.

CONSTRUCTION NOTES

- ② CONSTRUCT STANDARD HMA WEDGE CURB PER COT STANDARD PLAN SU-03A.
- ⑤ CONSTRUCT CEMENT CONC. SIDEWALK PER COT STANDARD PLAN SU-04.
- ⑫ CONSTRUCT HMA PAVEMENT RESTORATION PER COT STANDARD PLAN SU-15B.
- ⑱ RESTORE GRAVEL DRIVEWAY PER RESTORATION TABLE, SHEET 36.
- ⑳ RECONSTRUCT HMA DRIVEWAY TO PREVIOUS EXTENTS PER SECTION C, SHEET 36.
- ㉓ CONSTRUCT SIDEWALK WITH 6" CONCRETE DEPTH PER COT STANDARD PLAN SU-07A.

LEGEND

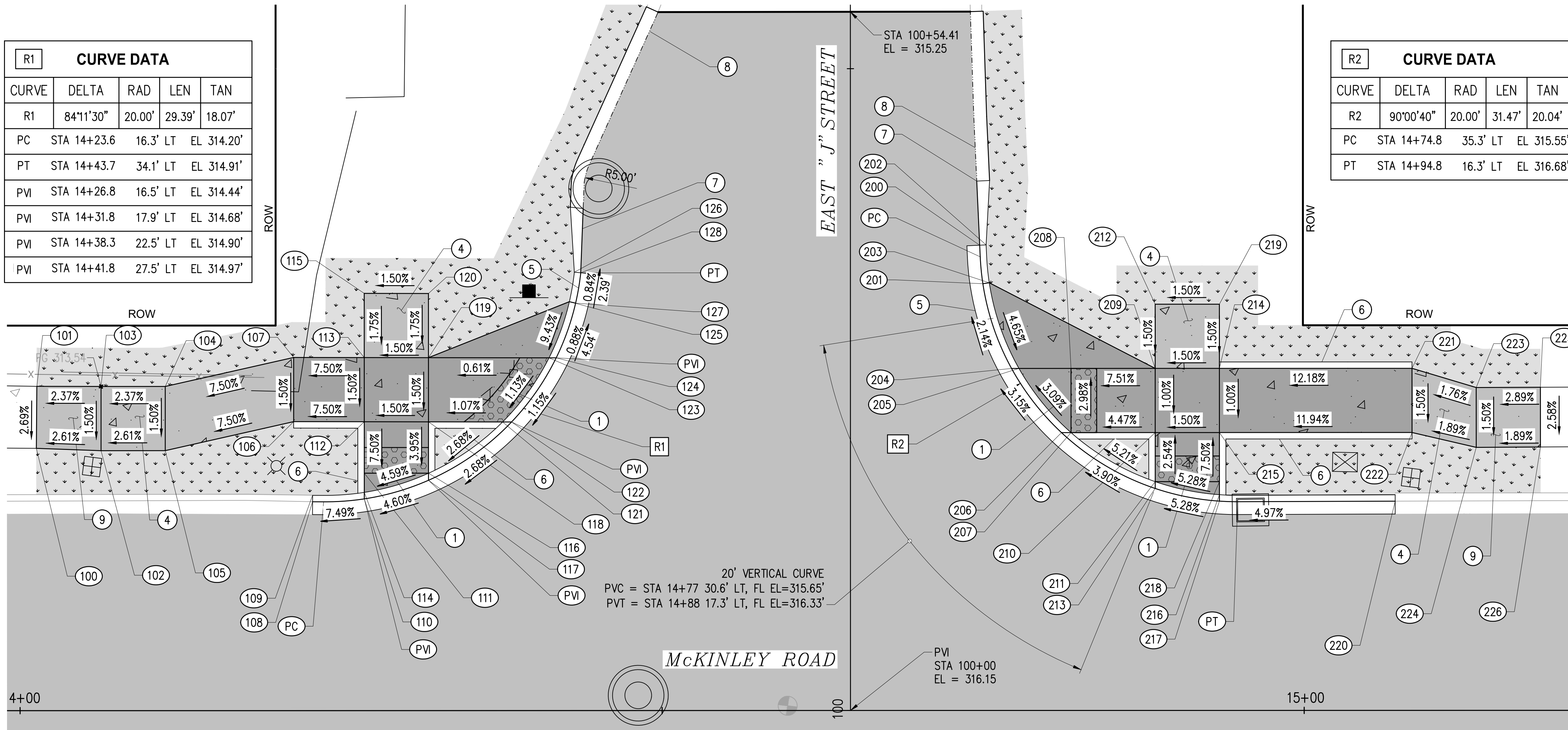
- CEMENT CONCRETE SIDEWALK
- CEMENT CONCRETE CURB RAMP & DRIVEWAY
- CEMENT CONCRETE PAVEMENT
- HMA PAVEMENT RESTORATION AS SPECIFIED ON PLANS
- GRAVEL RESTORATION
- PLANTER STRIP/LAWN
- HARD SURFACE RESTORATION ON PRIVATE PROPERTY. SEE PRIVATE IMPROVEMENT RESTORATION PLANS, SHTS 8-28
- SOFT SURFACE RESTORATION ON PRIVATE PROPERTY. SEE PRIVATE IMPROVEMENT RESTORATION PLANS, SHTS 8-28
- CEMENT CONCRETE CURB AND GUTTER
- HMA WEDGE CURB
- REPLANT SALVAGED SHRUB/TREE

DATE: 04/20/24 2:55 PM PATH: K:\TACOMA\17042-DRAFTING SUPPORT CIR\17042\17042\MCKINLEY\CONTRACT DWG\SS\SSHEETS\FILES FILE: ENV\04018-08-05 PS PLAN & PROFILE LAYOUT: STA 50+00 TO STA 54+85

<p>CALL 2 DAYS BEFORE YOU DIG 1-800-424-5555</p>	<p>BID DOCUMENT</p>			<p>FINAL CONSTRUCTION CHECKED: 05/24 DATE: 05/24 SCALE: 1"=20'</p>					<p>CITY OF TACOMA ENVIRONMENTAL SERVICES DEPARTMENT</p>		<p>SPEC. NO. ES24-0034F</p>
				<p>DESIGNED: EH CHECKED: NIM DRAWN: EH PROJECT NAME: WWSS-MCKIN</p>					<p>WASTEWATER SIDE SEWER IMPROVEMENTS MCKINLEY ROAD E WRIGHT AVENUE ROAD PLAN & PROFILE, ROW & RESTORATION PLAN STA 50+00 TO STA 54+85</p>		<p>WBS NO. ENV-04018-08 PWK-00438-46</p>
<p>NO REVISION DATE APPD</p>				<p>FIELD BOOKS ENV-04018-08-05 PS Plan & Profile.dwg</p>				<p>PROJECT NO. 17042</p>		<p>SHEET NO. 31 OF 37</p>	

R1 CURVE DATA				
CURVE	DELTA	RAD	LEN	TAN
R1	84°11'30"	20.00'	29.39'	18.07'
PC	STA 14+23.6	16.3' LT	EL 314.20'	
PT	STA 14+43.7	34.1' LT	EL 314.91'	
PVI	STA 14+26.8	16.5' LT	EL 314.44'	
PVI	STA 14+31.8	17.9' LT	EL 314.68'	
PVI	STA 14+38.3	22.5' LT	EL 314.90'	
PVI	STA 14+41.8	27.5' LT	EL 314.97'	

R2 CURVE DATA				
CURVE	DELTA	RAD	LEN	TAN
R2	90°00'40"	20.00'	31.47'	20.04'
PC	STA 14+74.8	35.3' LT	EL 315.55'	
PT	STA 14+94.8	16.3' LT	EL 316.68'	



GENERAL NOTES

1. PLANTER/BACK OF WALK RESTORATION SHALL BE PER RESTORATION TABLE, SHEET 37.
2. ALL LOCATION & ELEVATION CALLOUTS ARE TO FINISHED SIDEWALK/RAMP GRADE UNLESS OTHERWISE NOTED.
3. VERTICAL INFLECTION POINTS ALONG THE CURB LINE SHALL BE CLEAR OF THE RAMP BOTTOM.
4. DETECTABLE WARNING SURFACES LOCATED ON A RADIUS SHALL BE INSTALLED USING DETECTABLE WARNING TILES MANUFACTURED SPECIFICALLY TO BE INSTALLED ON THE SPECIFIED RADIUS.

CONSTRUCTION NOTES

1. INSTALL COMBINATION CURB RAMP PER COT STANDARD PLAN SU-05C.
4. INSTALL CEMENT CONC. SIDEWALK PER COT STANDARD PLAN SU-04.
5. INSTALL CEMENT CONC. CURB & GUTTER PER COT STANDARD PLAN SU-03. MODIFY DIMENSIONS AS NECESSARY TO MATCH EXISTING CURB & GUTTER.
6. CEMENT CONC. PEDESTRIAN CURB PER COT STD PLAN SU-03A.
7. INSTALL HMA WEDGE CURB TRANSITION PER DETAIL 1, SHEET 37. MODIFY DIMENSIONS AS NECESSARY TO MATCH EXISTING HMA WEDGE CURB WIDTH.
8. INSTALL HMA WEDGE CURB PER COT STANDARD PLAN SU-03A. MODIFY DIMENSIONS AS NECESSARY TO MATCH EXISTING HMA WEDGE CURB WIDTH.
9. TRANSITION PANEL TO MATCH EXISTING SIDEWALK WIDTH AND SLOPE. MAY NOT COMPLY WITH ADA STANDARDS.

LEGEND

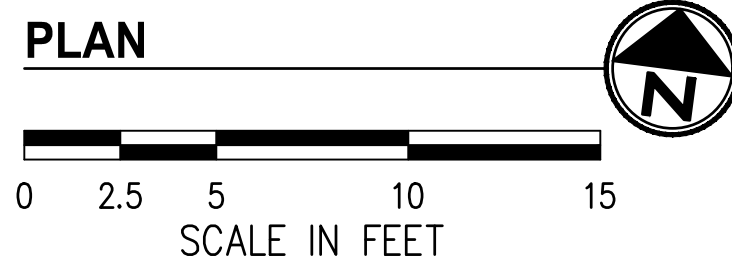
- CEMENT CONCRETE SIDEWALK
- CEMENT CONCRETE CURB RAMP & DRIVEWAY
- PLANTER STRIP / LAWN
- DETECTABLE WARNING SURFACE, PLACE AT GRADE BREAK AND INSTALL PER COT STANDARD PLAN SU-05G
- CEMENT CONCRETE CURB AND GUTTER
- HMA WEDGE CURB

ABBREVIATIONS:

- FL FLOWLINE
- S/W SIDEWALK
- TBC TOP OF CURB

#	CURB/RAMP LAYOUT POINTS			
NUMBER	STATION	OFFSET	ELEV	DESCRIPTION
100	14+01.27	20.44' LT	313.32	S/W, MATCH EX
101	14+01.31	25.27' LT	313.42	S/W, MATCH EX
102	14+06.31	20.26' LT	313.45	S/W
103	14+06.31	25.26' LT	313.54	S/W
104	14+11.31	25.26' LT	313.66	S/W
105	14+11.31	20.26' LT	313.58	S/W
106	14+21.31	22.51' LT	314.35	RAMP
107	14+21.31	27.51' LT	314.43	RAMP
108	14+22.78	16.27' LT	314.14	FL, MATCH EX
109	14+22.78	16.78' LT	314.55	TBC, MATCH EX
110	14+26.81	16.50' LT	314.44	RAMP, FL
111	14+26.81	18.49' LT	314.46	RAMP
112	14+26.81	22.50' LT	314.76	RAMP
113	14+26.81	27.50' LT	314.84	RAMP
114	14+26.81	17.00' LT	314.44	RAMP

#	CURB/RAMP LAYOUT POINTS			
NUMBER	STATION	OFFSET	ELEV	DESCRIPTION
115	14+26.81	32.50' LT	314.93	S/W
116	14+31.81	18.49' LT	314.68	RAMP
117	14+31.81	17.94' LT	314.68	RAMP, FL
118	14+31.81	22.49' LT	314.84	RAMP
119	14+31.81	27.50' LT	314.91	RAMP
120	14+31.81	32.49' LT	315.00	S/W
121	14+37.58	22.48' LT	314.90	RAMP
122	14+38.28	22.48' LT	314.90	RAMP
123	14+41.19	27.48' LT	314.97	RAMP
124	14+41.75	27.48' LT	314.97	RAMP, FL
125	14+42.78	31.85' LT	315.41	RAMP, TBC
126	14+43.17	34.15' LT	315.39	TBC
127	14+43.27	31.74' LT	314.93	RAMP, FL
128	14+43.67	34.11' LT	314.91	FL



#	CURB/RAMP LAYOUT POINTS			
NUMBER	STATION	OFFSET	ELEV	DESCRIPTION
200	14+74.74	36.25' LT	315.53	FL
201	14+74.99	33.24' LT	315.59	RAMP, FL
202	14+75.24	36.27' LT	316.01	TBC
203	14+75.48	33.32' LT	316.07	RAMP, TBC
204	14+77.22	26.64' LT	315.74	RAMP, FL
205	14+77.79	26.64' LT	315.74	RAMP
206	14+81.10	21.64' LT	315.94	RAMP, FL
207	14+81.85	21.64' LT	315.94	RAMP
208	14+81.85	26.64' LT	315.79	RAMP
209	14+88.40	26.64' LT	316.28	RAMP
210	14+88.40	21.64' LT	316.23	RAMP
211	14+88.40	17.82' LT	316.33	RAMP
212	14+88.40	31.64' LT	316.36	S/W
213	14+88.40	17.30' LT	316.33	RAMP, FL

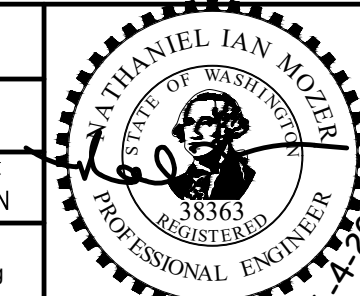
#	CURB/RAMP LAYOUT POINTS			
NUMBER	STATION	OFFSET	ELEV	DESCRIPTION
214	14+93.40	26.64' LT	316.36	RAMP
215	14+93.40	21.64' LT	316.31	RAMP
216	14+93.40	16.80' LT	316.60	RAMP
217	14+93.40	16.30' LT	316.60	RAMP, FL
218	14+93.40	17.82' LT	316.59	RAMP
219	14+93.40	31.64' LT	316.43	S/W
220	15+07.09	16.30' LT	317.29	FL, MATCH EX
221	15+08.40	26.65' LT	318.17	RAMP
222	15+08.40	21.65' LT	318.10	RAMP
223	15+13.40	25.15' LT	318.27	S/W
224	15+13.40	20.49' LT	318.20	S/W
225	15+18.40	25.17' LT	318.41	S/W, MATCH EX
226	15+18.40	20.52' LT	318.29	S/W, MATCH EX

CALL 2 DAYS BEFORE YOU DIG
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BID DOCUMENT



NO	REVISION	DATE	APPD	FIELD BOOKS	DRAWING NAME	McKinley Road & E J St (North).dwg
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CITY OF TACOMA
ENVIRONMENTAL SERVICES DEPARTMENT
WASTEWATER SIDE SEWER IMPROVEMENTS MCKINLEY ROAD
CURB RAMP & INTERSECTION GRADING PLAN
MCKINLEY ROAD & EAST J STREET (NORTH)

SPEC. NO.	ES24-0034F
PROJ. NO.	ENV-04018-08
SHEET NO.	PWK-00438-46
SHEET	32 OF 37

DATE: 04/20/24 2:57 PM PATH: K:\TACOMA\17042-DRAFTING SUPPORT\CIP\17042\17042\MCKINLEY\CONTRACT DWGS\SHEETFILES FILE: MCKINLEY ROAD & E J ST (NORTH) LAYOUT: MCKINLEY ROAD-J ST

R3 CURVE DATA				
CURVE	DELTA	RAD	LEN	TAN
R3	86°05'40"	20.00'	30.05'	18.68'
PC	STA 18+04.1	16.2' LT	EL 331.64'	
PT	STA 18+24.0	34.9' LT	EL 331.69'	
PVI	STA 18+10.2	17.2' LT	EL 331.86'	

R4 CURVE DATA				
CURVE	DELTA	RAD	LEN	TAN
R4	84°50'20"	20.00'	29.61'	18.27'
PC	STA 18+54.5	35.8' LT	EL 331.89'	
PT	STA 18+73.1	16.2' LT	EL 331.70'	
PVI	STA 18+55.1	31.2' LT	EL 331.95'	
PVI	STA 18+71.2	16.4' LT	EL 331.76'	

GENERAL NOTES

1. PLANTER/BACK OF WALK RESTORATION SHALL BE PER RESTORATION TABLE, SHEET 37.
2. ALL LOCATION & ELEVATION CALLOUTS ARE TO FINISHED SIDEWALK/RAMP GRADE UNLESS OTHERWISE NOTED.
3. VERTICAL INFLECTION POINTS ALONG THE CURB LINE SHALL BE CLEAR OF THE RAMP BOTTOM.
4. DETECTABLE WARNING SURFACES LOCATED ON A RADIUS SHALL BE INSTALLED USING DETECTABLE WARNING TILES MANUFACTURED SPECIFICALLY TO BE INSTALLED ON THE SPECIFIED RADIUS.

CONSTRUCTION NOTES

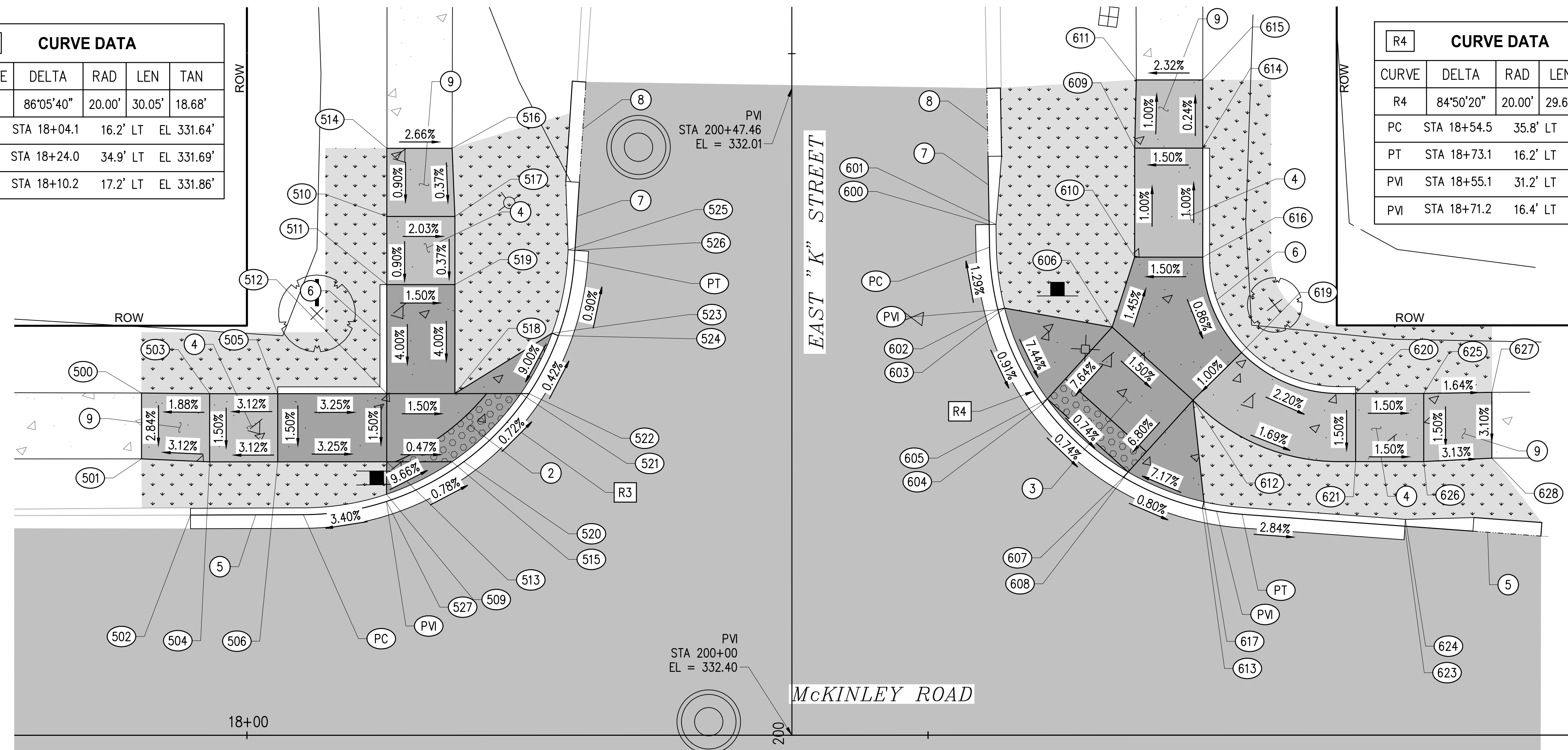
2. INSTALL SINGLE DIRECTION TYPE B CURB RAMP PER COT STANDARD PLAN SU-05F.
3. INSTALL PERPENDICULAR CURB RAMP TYPE "A" PER COT STANDARD PLAN SU-05A.
4. INSTALL CEMENT CONC. SIDEWALK PER COT STANDARD PLAN SU-04.
5. INSTALL CEMENT CONC. CURB & GUTTER PER COT STANDARD PLAN SU-03. MODIFY DIMENSIONS AS NECESSARY TO MATCH EXISTING CURB & GUTTER.
6. CEMENT CONC. PEDESTRIAN CURB PER COT STD PLAN SU-03A.
7. INSTALL HMA WEDGE CURB TRANSITION PER DETAIL 1, SHEET 37. MODIFY DIMENSIONS AS NECESSARY TO MATCH EXISTING HMA WEDGE CURB WIDTH.
8. INSTALL HMA WEDGE CURB PER COT STANDARD PLAN SU-03A. MODIFY DIMENSIONS AS NECESSARY TO MATCH EXISTING HMA WEDGE CURB WIDTH.
9. TRANSITION PANEL TO MATCH EXISTING SIDEWALK WIDTH AND SLOPE. MAY NOT COMPLY WITH ADA STANDARDS.

LEGEND

- CEMENT CONCRETE SIDEWALK
- CEMENT CONCRETE CURB RAMP & DRIVEWAY
- PLANTER STRIP / LAWN
- DETECTABLE WARNING SURFACE, PLACE AT GRADE BREAK AND INSTALL PER COT STANDARD PLAN SU-05G
- CEMENT CONCRETE CURB AND GUTTER
- HMA WEDGE CURB

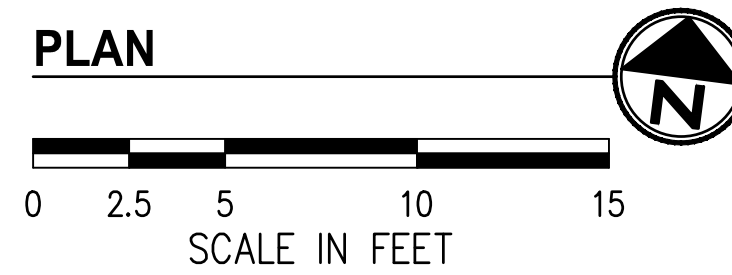
ABBREVIATIONS:

- FL FLOWLINE
- S/W SIDEWALK
- TBC TOP OF CURB



#	CURB/RAMP LAYOUT POINTS			
NUMBER	STATION	OFFSET	ELEV	DESCRIPTION
500	17+92.27	25.11' LT	331.93	S/W, MATCH EX
501	17+92.27	20.28' LT	331.79	S/W, MATCH EX
502	17+95.86	16.15' LT	331.34	FL, MATCH EX
503	17+97.27	25.06' LT	332.02	S/W
504	17+97.27	20.06' LT	331.95	S/W
505	18+02.27	25.06' LT	332.18	RAMP
506	18+02.27	20.06' LT	332.10	RAMP
509	18+10.25	17.68' LT	332.34	RAMP, TBC
510	18+10.27	38.06' LT	332.28	S/W
511	18+10.27	33.06' LT	332.24	RAMP
512	18+10.27	25.06' LT	331.92	RAMP
513	18+10.27	20.06' LT	331.84	RAMP
514	18+10.27	43.06' LT	332.33	S/W, MATCH EX

#	CURB/RAMP LAYOUT POINTS			
NUMBER	STATION	OFFSET	ELEV	DESCRIPTION
515	18+15.06	20.06' LT	331.82	RAMP
516	18+15.07	43.06' LT	332.20	S/W, MATCH EX
517	18+15.27	38.06' LT	332.18	S/W
518	18+15.27	25.06' LT	331.84	RAMP
519	18+15.27	33.06' LT	332.16	RAMP
520	18+15.92	20.06' LT	331.81	RAMP, FL
521	18+20.10	25.06' LT	331.77	RAMP
522	18+20.71	25.06' LT	331.76	RAMP, FL
523	18+22.40	29.49' LT	332.22	RAMP, TBC
524	18+22.87	29.32' LT	331.74	RAMP, FL
525	18+23.58	35.61' LT	332.15	TBC
526	18+24.08	35.57' LT	331.67	FL
527	18+10.24	17.15' LT	331.86	RAMP, FL

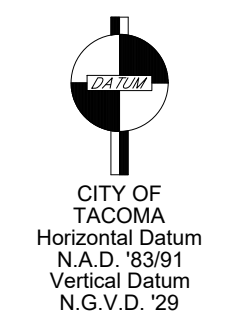


#	CURB/RAMP LAYOUT POINTS			
NUMBER	STATION	OFFSET	ELEV	DESCRIPTION
600	18+54.49	37.46' LT	331.87	FL
601	18+54.99	37.47' LT	332.35	TBC
602	18+55.13	31.21' LT	331.95	RAMP, FL
603	18+55.62	31.33' LT	332.43	RAMP, TBC
604	18+58.41	24.29' LT	331.88	RAMP, FL
605	18+58.75	24.67' LT	331.88	RAMP
606	18+63.51	29.93' LT	332.42	RAMP
607	18+64.35	18.92' LT	331.82	RAMP, FL
608	18+64.69	19.30' LT	331.82	RAMP
609	18+65.17	43.07' LT	332.26	S/W
610	18+65.17	35.07' LT	332.34	RAMP
611	18+65.29	48.07' LT	332.21	S/W, MATCH EX
612	18+69.45	24.57' LT	332.30	RAMP
613	18+70.14	16.63' LT	331.77	RAMP, FL

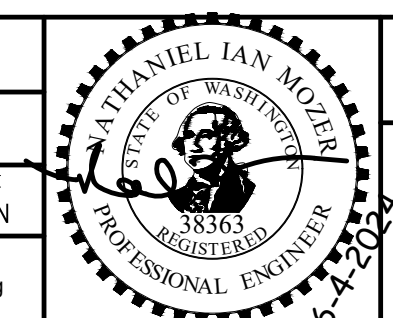
#	CURB/RAMP LAYOUT POINTS			
NUMBER	STATION	OFFSET	ELEV	DESCRIPTION
614	18+70.17	43.07' LT	332.34	S/W
615	18+70.17	48.07' LT	332.33	S/W, MATCH EX
616	18+70.17	35.07' LT	332.42	RAMP
617	18+70.25	17.12' LT	333.50	RAMP, TBC
619	18+73.02	28.07' LT	332.35	RAMP
620	18+81.39	25.06' LT	332.16	S/W
621	18+81.39	20.06' LT	332.08	S/W
623	18+84.98	15.33' LT	331.36	FL
624	18+85.05	15.83' LT	331.86	TBC
625	18+86.39	25.07' LT	332.08	S/W
626	18+86.39	20.07' LT	332.01	S/W
627	18+91.39	25.15' LT	332.00	S/W, MATCH EX
628	18+91.39	20.32' LT	331.85	S/W, MATCH EX

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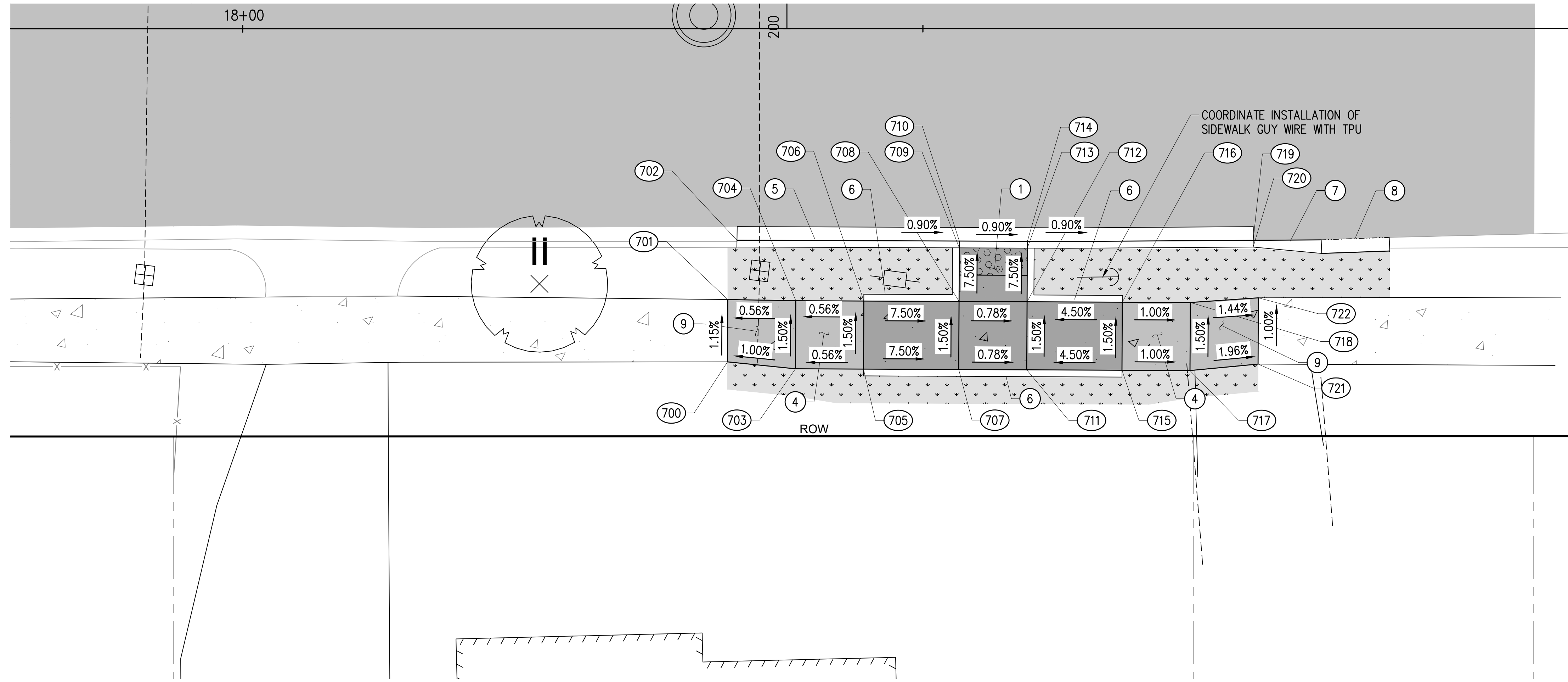
BID DOCUMENT



NO		REVISION		DATE	APPD	FINAL CONSTRUCTION CHECKED	DATE	SCALE	CITY OF TACOMA ENVIRONMENTAL SERVICES DEPARTMENT WASTEWATER SIDE SEWER IMPROVEMENTS MCKINLEY ROAD CURB RAMP & INTERSECTION GRADING PLAN MCKINLEY ROAD & EAST K ST (NORTH)		SPEC. NO. ES24-0034F
				05/24		EH	05/24	1"=5'			NBS NO. ENV-04018-08 PWK-00438-46
				EH		NIM					SHEET NO. 34 OF 37
				EH		WWSS-MCKIN					



DATE: 04/20/24 2:58 PM PATH: K:\TACOMA\17042-DRAFTING SUPPORT\CIP\17042\10\MCKINLEY\CONTRACT DWGS\SHEETFILES FILE: MCKINLEY ROAD & E J ST (NORTH) LAYOUT: MCKINLEY ROAD & EAST K ST (SOUTH)



GENERAL NOTES

1. PLANTER/BACK OF WALK RESTORATION SHALL BE PER RESTORATION TABLE, SHEET 37.
2. ALL LOCATION & ELEVATION CALLOUTS ARE TO FINISHED SIDEWALK/RAMP GRADE UNLESS OTHERWISE NOTED.
3. VERTICAL INFLECTION POINTS ALONG THE CURB LINE SHALL BE CLEAR OF THE RAMP BOTTOM.
4. DETECTABLE WARNING SURFACES LOCATED ON A RADIUS SHALL BE INSTALLED USING DETECTABLE WARNING TILES MANUFACTURED SPECIFICALLY TO BE INSTALLED ON THE SPECIFIED RADIUS.

CONSTRUCTION NOTES

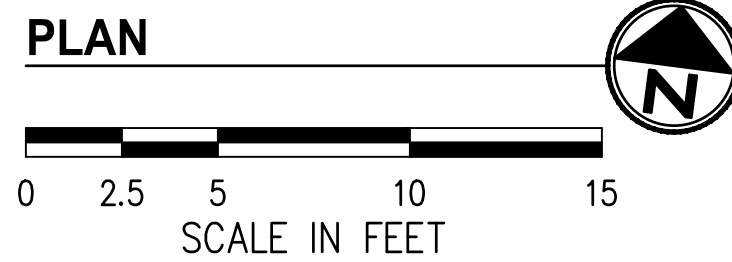
1. INSTALL COMBINATION CURB RAMP PER COT STANDARD PLAN SU-05C.
4. INSTALL CEMENT CONC. SIDEWALK PER COT STANDARD PLAN SU-04.
5. INSTALL CEMENT CONC. CURB & GUTTER PER COT STANDARD PLAN SU-03. MODIFY DIMENSIONS AS NECESSARY TO MATCH EXISTING CURB & GUTTER.
6. CEMENT CONC. PEDESTRIAN CURB PER COT STD PLAN SU-03A.
7. INSTALL HMA WEDGE CURB TRANSITION PER DETAIL 1, SHEET 37. MODIFY DIMENSIONS AS NECESSARY TO MATCH EXISTING HMA WEDGE CURB WIDTH.
8. INSTALL HMA WEDGE CURB PER COT STANDARD PLAN SU-03A. MODIFY DIMENSIONS AS NECESSARY TO MATCH EXISTING HMA WEDGE CURB WIDTH.
9. TRANSITION PANEL TO MATCH EXISTING SIDEWALK WIDTH AND SLOPE. MAY NOT COMPLY WITH ADA STANDARDS.

LEGEND

- CEMENT CONCRETE SIDEWALK
- CEMENT CONCRETE CURB RAMP & DRIVEWAY
- PLANTER STRIP / LAWN
- DETECTABLE WARNING SURFACE, PLACE AT GRADE BREAK AND INSTALL PER COT STANDARD PLAN SU-05G
- CEMENT CONCRETE CURB AND GUTTER
- HMA WEDGE CURB

ABBREVIATIONS:

- FL FLOWLINE
- S/W SIDEWALK
- TBC TOP OF CURB



#	CURB/RAMP LAYOUT POINTS			
NUMBER	STATION	OFFSET	ELEV	DESCRIPTION
700	18+35.64	24.48' RT	332.53	S/W, MATCH EX
701	18+35.66	19.90' RT	332.48	S/W, MATCH EX
702	18+36.33	15.54' RT	331.86	FL, MATCH EX
703	18+40.63	24.99' RT	332.58	S/W
704	18+40.66	19.99' RT	332.50	S/W
705	18+45.63	25.01' RT	332.61	RAMP
706	18+45.66	20.01' RT	332.53	RAMP
707	18+52.63	25.04' RT	332.08	RAMP
708	18+52.66	20.04' RT	332.01	RAMP
709	18+52.67	16.10' RT	331.71	RAMP
710	18+52.68	15.60' RT	331.71	RAMP, FL
711	18+57.63	25.06' RT	332.04	RAMP

#	CURB/RAMP LAYOUT POINTS			
NUMBER	STATION	OFFSET	ELEV	DESCRIPTION
712	18+57.66	20.06' RT	331.97	RAMP
713	18+57.67	16.12' RT	331.67	RAMP
714	18+57.68	15.62' RT	331.67	RAMP, FL
715	18+64.63	25.10' RT	332.36	RAMP
716	18+64.66	20.10' RT	332.28	RAMP
717	18+69.63	25.12' RT	332.31	S/W
718	18+69.66	20.12' RT	332.23	S/W
719	18+74.28	15.55' RT	331.52	FL
720	18+74.28	16.05' RT	332.00	TBC
721	18+74.63	24.64' RT	332.21	S/W, MATCH EX
722	18+74.66	19.78' RT	332.16	S/W, MATCH EX

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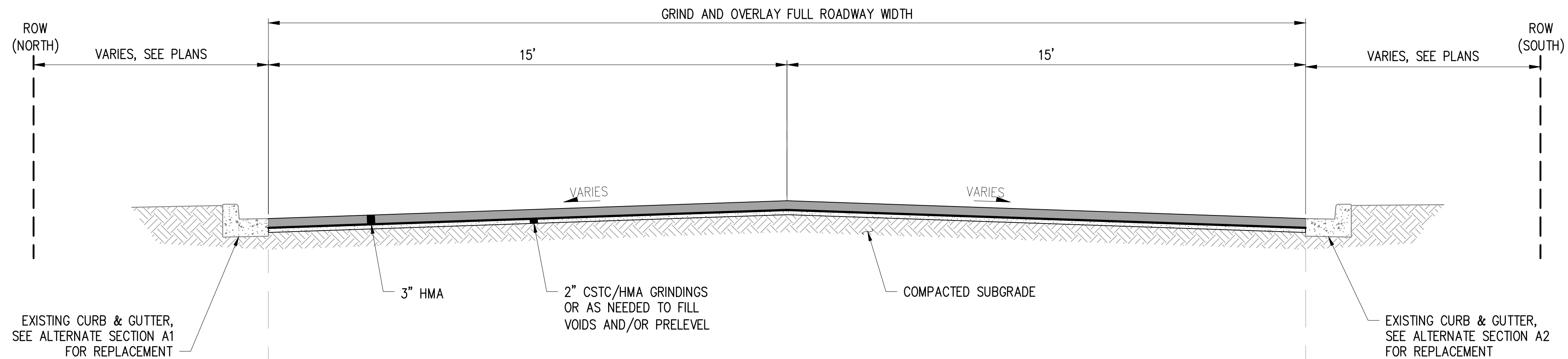
CITY OF TACOMA
Horizontal Datum N.A.D. 83/91
Vertical Datum N.G.V.D. 29

NO	REVISION	DATE	APPD

FINAL CONSTRUCTION CHECKED	DATE	SCALE
	05/24	1"=5'
DESIGNED		CHECKED
EH		NIM
DRAWN		PROJECT NAME
EH		WWSS-MCKIN
FIELD BOOKS	DRAWING NAME	
	McKinley Road & E J St (North).dwg	

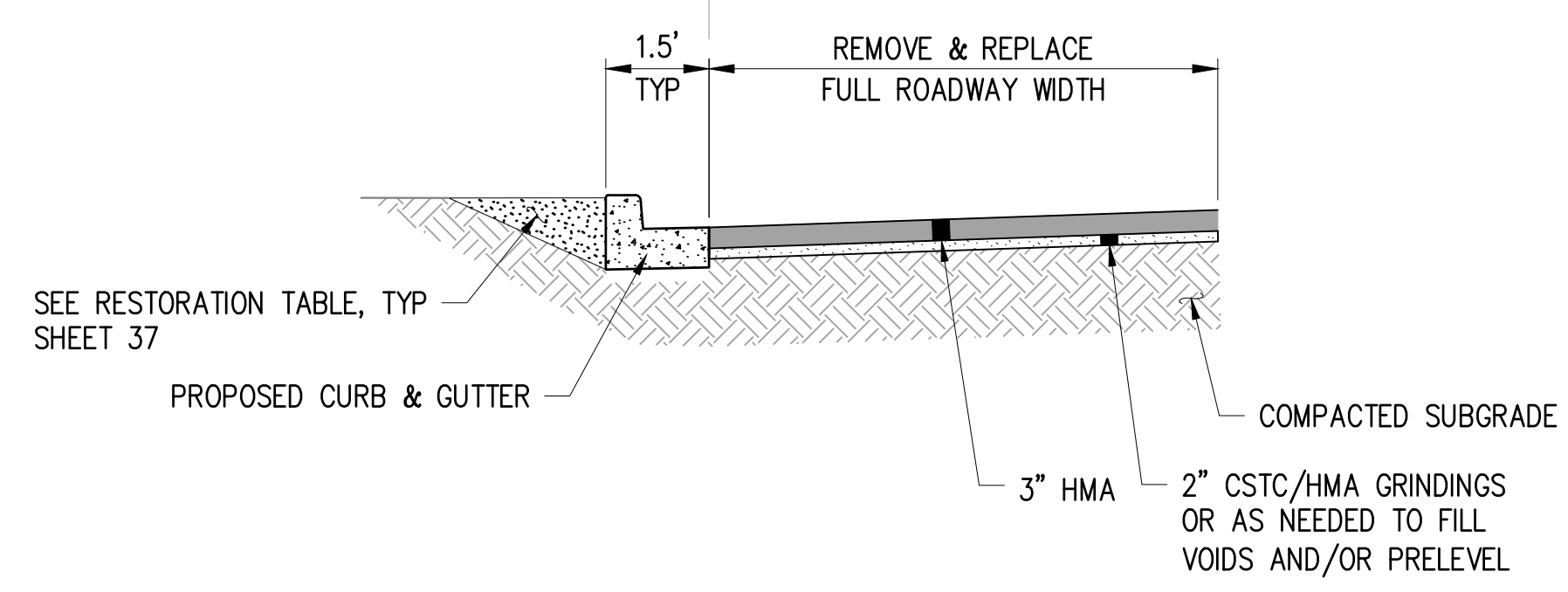
CITY OF TACOMA
ENVIRONMENTAL SERVICES DEPARTMENT
WASTEWATER SIDE SEWER IMPROVEMENTS MCKINLEY ROAD
CURB RAMP & INTERSECTION GRADING PLAN
MCKINLEY ROAD & EAST K ST (SOUTH)

SPEC. NO. ES24-0034F	SHEET NO. 35 OF 37
PROJECT NO. ENV-04018-08 PWK-00438-46	

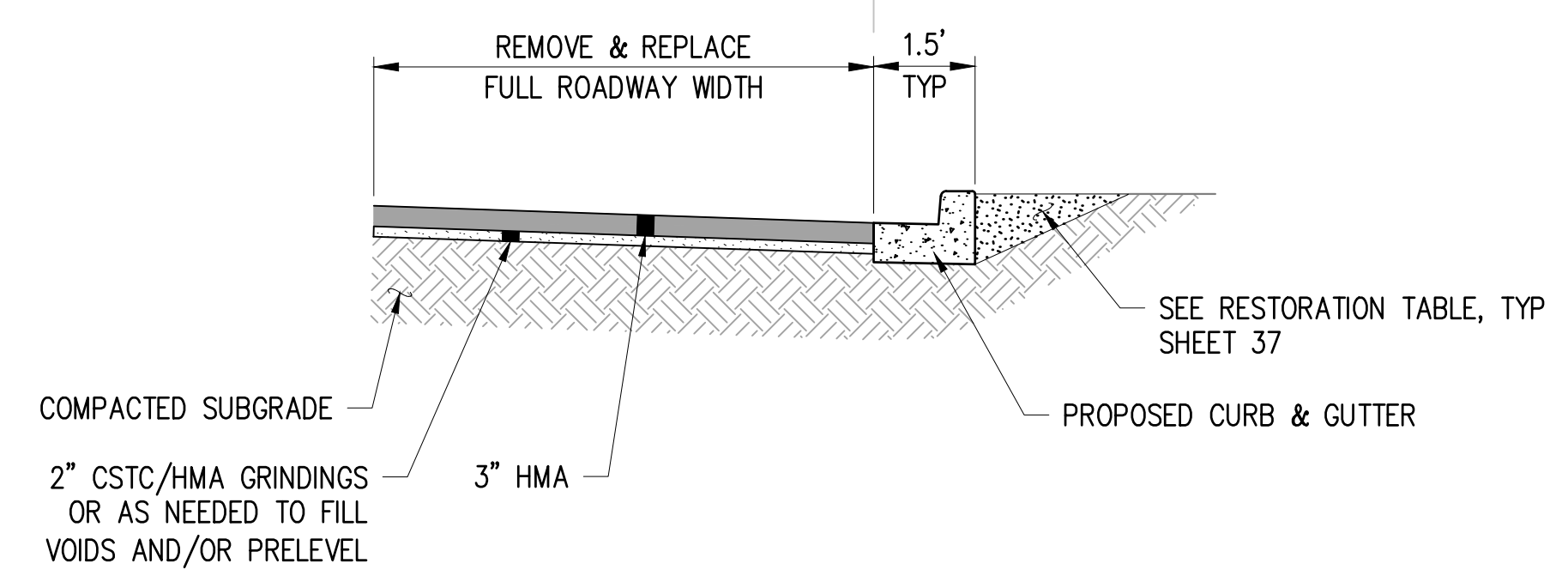


TYPICAL ROADWAY SECTION A
NTS

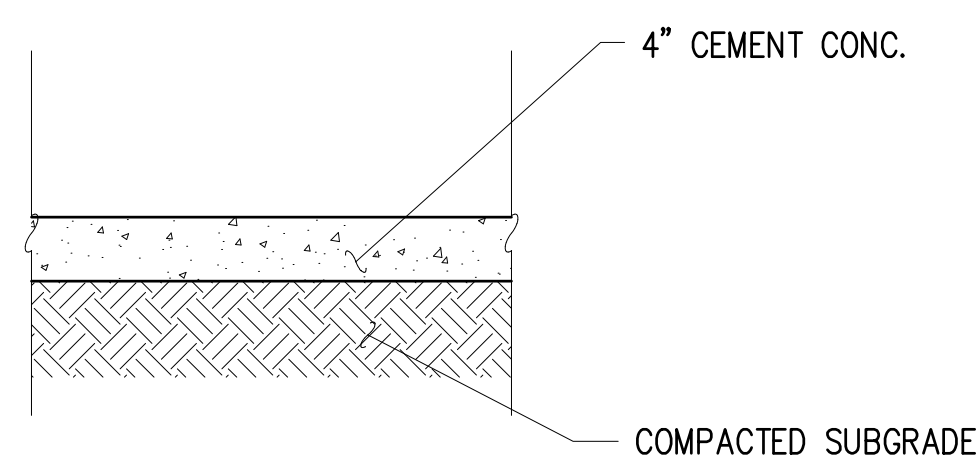
NOTE: CONTRACTOR SHALL REMOVE AND DISPOSE OF EXCESS HMA GRINDINGS.



ALTERNATE SECTION A1
NTS

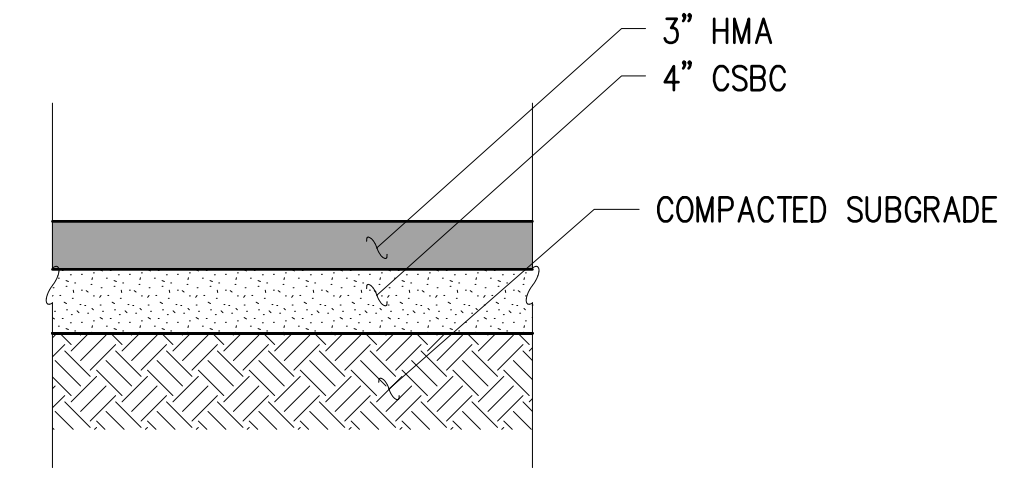


ALTERNATE SECTION A2
NTS



RESIDENTIAL DRIVEWAY APRON B
NTS

NOTE: DRIVEWAY APRON IS LOCATED BEHIND THE BACK OF WALK.



HMA DRIVEWAY APPROACH C
NTS

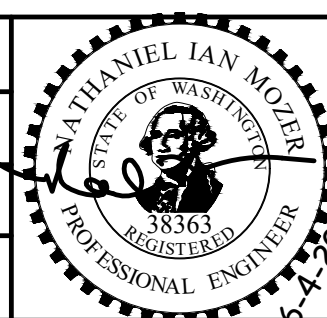
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NO	REVISION	DATE	APPD

FINAL CONSTRUCTION CHECKED	DATE	SCALE
DESIGNED	05/24	NTS
DRAWN	EH	NIM
PROJECT NAME	WWSS-MCKIN	
DRAWING NAME		

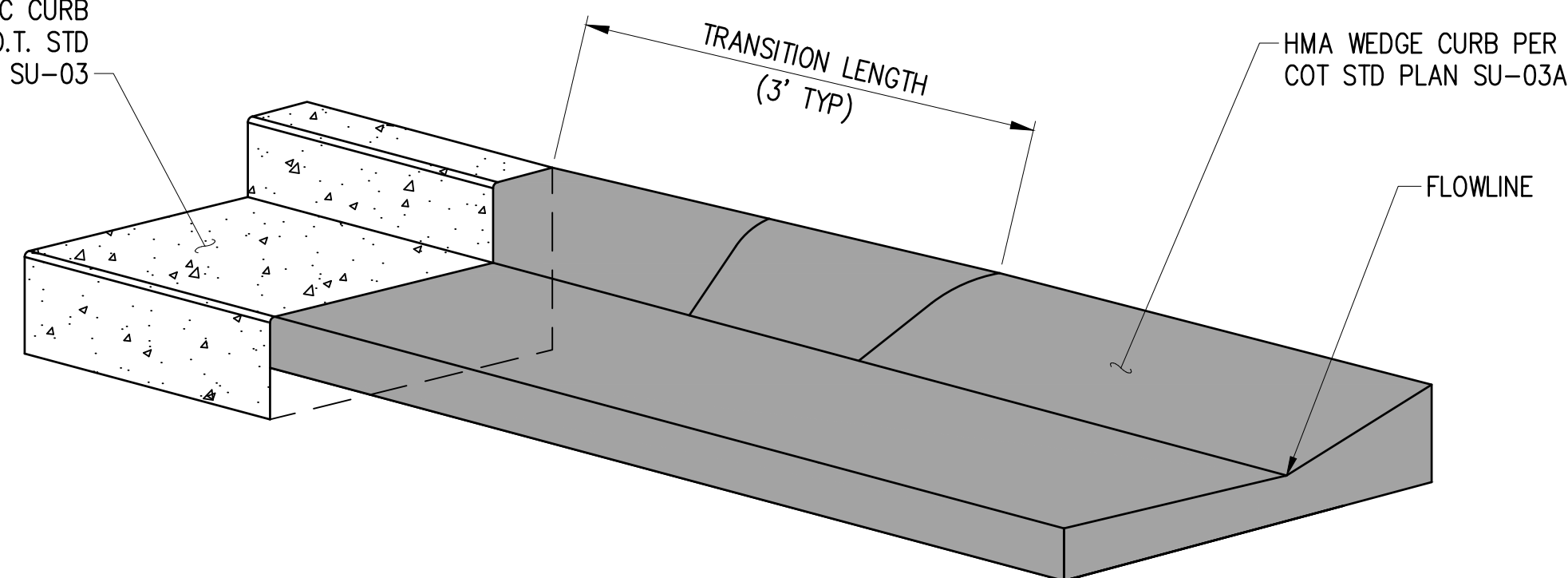


CITY OF TACOMA
ENVIRONMENTAL SERVICES DEPARTMENT
WASTEWATER SIDE SEWER IMPROVEMENTS MCKINLEY ROAD
TYPICAL SECTIONS

SPEC. NO.	ES24-0034F
WBS NO.	ENV-04018-08 PWK-00438-46
SHEET NO.	36 OF 37

DATE: 04/20/24 2:58 PM PATH: K:\TACOMA\17042-DRAFTING SUPPORT\01\17042\17042\MCKINLEY\CONTRACT DWGS\SHEETFILES FILE: TYPICAL SECTIONS LAYOUT: TYP.SEC01

CEMENT CONC. TRAFFIC CURB AND GUTTER PER C.O.T. STD PLAN SU-03



TRANSITION TRAFFIC CURB AND GUTTER TO HMA WEDGE CURB DETAIL

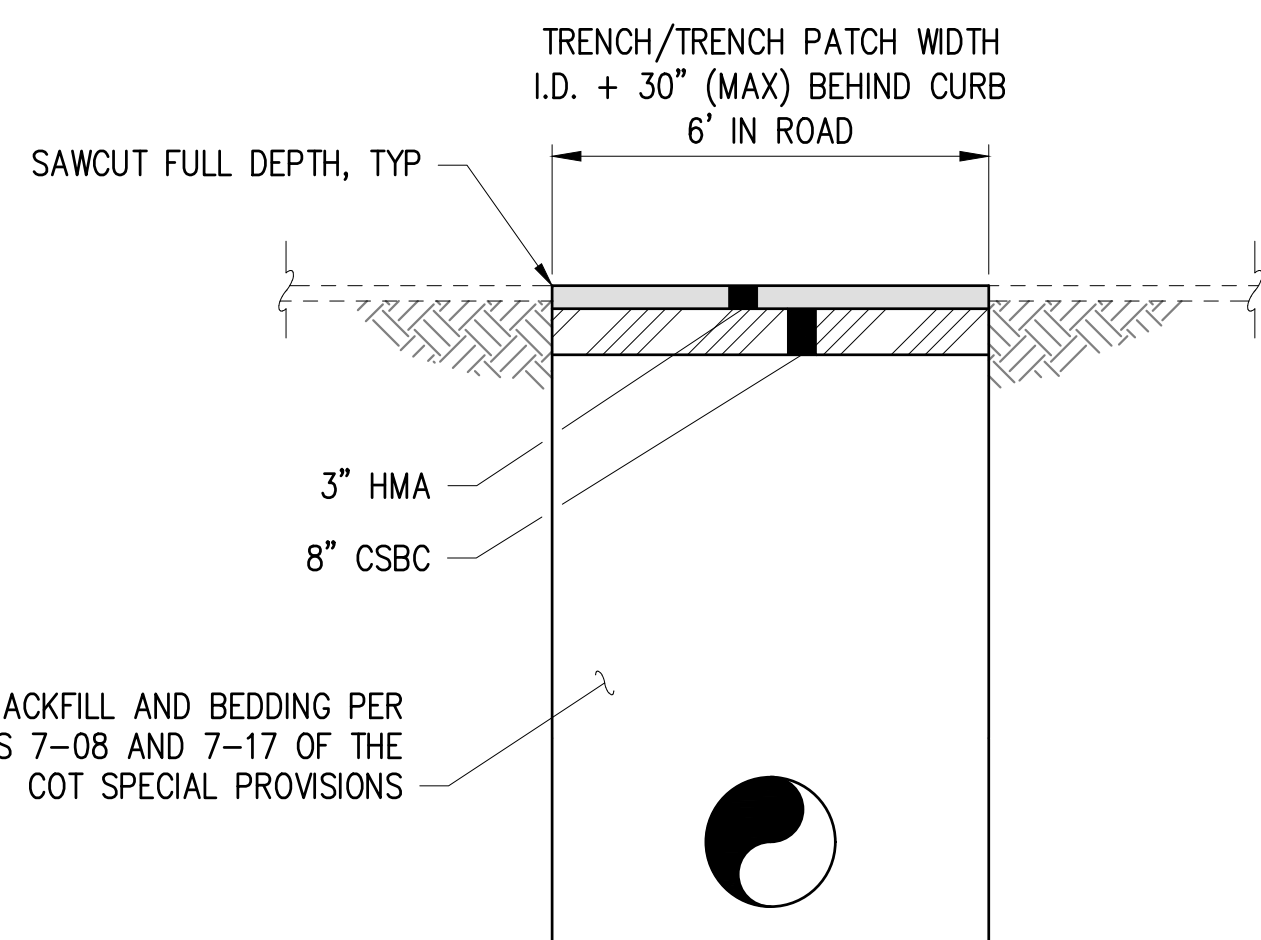
SEE PLANS FOR LOCATION
NTS

1

RESTORATION TABLE		
RESTORATION TYPE	RESTORATION	COMMENTS
HMA	2" MINIMUM HMA OVER 2" CSTC AT BACK OF SIDEWALK OR DRIVEWAY	FINISHED GRADE SHALL BE SMOOTH AND CONSISTENT WITH EXISTING GRADE.
LAWN/PLANTER STRIP	SOD OVER TYPE A TOPSOIL	FINISHED GRADE SHALL BE SMOOTH AND CONSISTENT WITH EXISTING GRADE.
PRIVATE LANDSCAPE AREAS/UNIMPROVED AREAS	3" BARK MULCH OVER 4" TOPSOIL TYPE A	FINISHED GRADE SHALL BE SMOOTH AND CONSISTENT WITH EXISTING GRADE.
GRAVEL	CSTC PLACED AT 3" TYPICAL DEPTH	PLACE CSTC FROM BACK OF CURB, BACK OF WALK, EDGE OF SHOULDER, OR EDGE OF PAVEMENT TO EXISTING GRADE FOR 3'. GRADE NOT TO EXCEED 4H:1V

NOTE

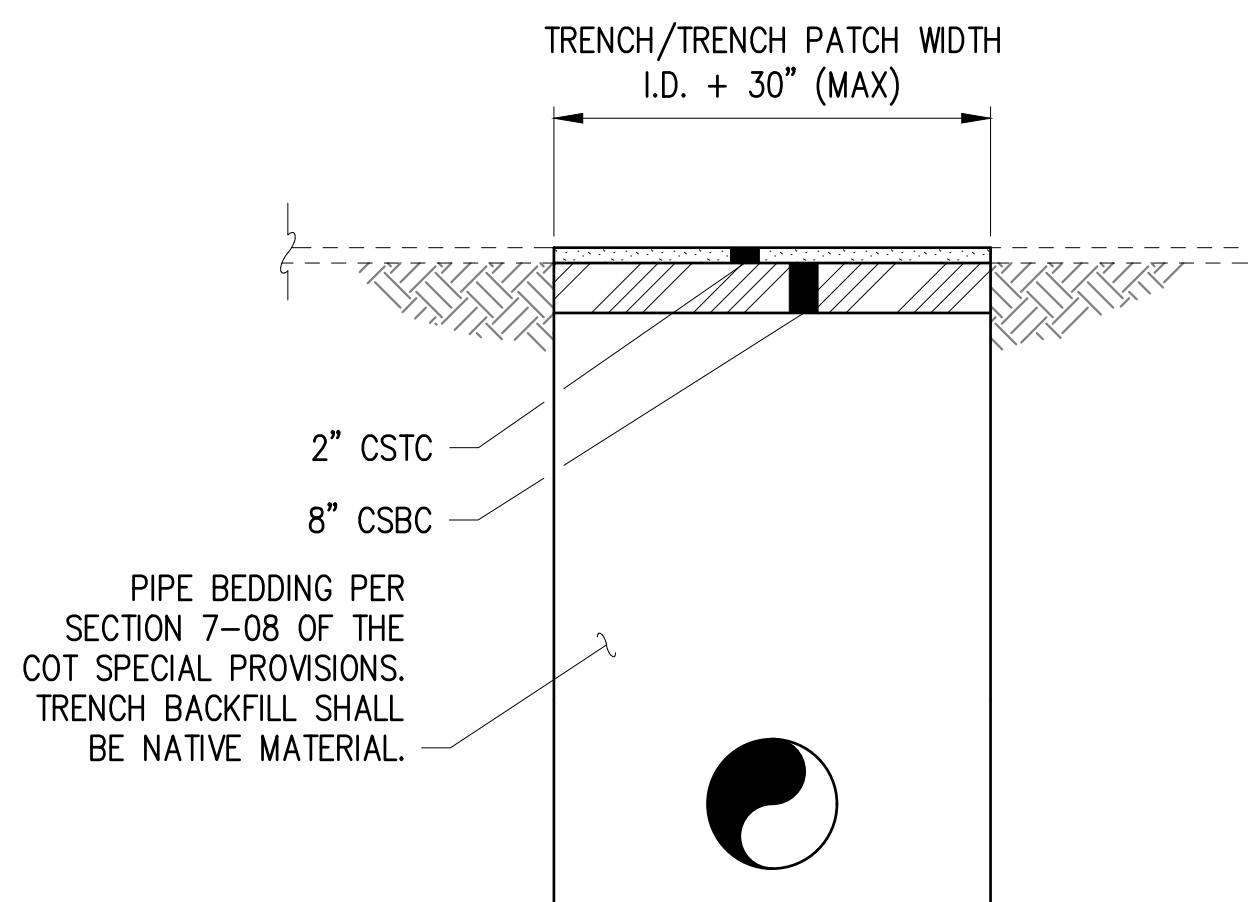
LOCATIONS OF RESTORATION ARE TYPICAL AND MAY BE REVISED BASED ON PROPERTY OWNER'S PREFERENCE AND APPROVAL BY CITY. FINAL RESTORATION TYPE SHALL BE DETERMINED BY THE CITY.



TEMPORARY TRENCH PATCH (ROW ONLY) DETAIL

NTS

2



PRIVATE PROPERTY TEMPORARY PATCH DETAIL

NTS

3

DATE: 04/20/24 2:58 PM PATH: K:\TACOMA\17042-DRAFTING SUPPORT\CP17042\W10\ACKINLEY\CONTRACT DWGS\SHEETFILES FILE: TYPICAL DETAILS LAYOUT.TYP DET01

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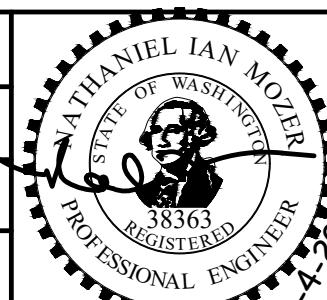


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FINAL CONSTRUCTION CHECKED	DATE	SCALE
DESIGNED	05/24	NTS
BY	EH	CHECKED
DATE	EH	NIM
FIELD BOOKS	DRAWN	PROJECT NAME
	EH	WWSS-MCKIN
	DRAWING NAME	
	Typical Details.dwg	



CITY OF TACOMA
ENVIRONMENTAL SERVICES DEPARTMENT
WASTEWATER SIDE SEWER IMPROVEMENTS MCKINLEY ROAD
TYPICAL DETAILS

SPEC. NO.	ES24-0034F
WBS NO.	ENV-04018-08 PWK-00438-46
SHEET NO.	37 OF 37