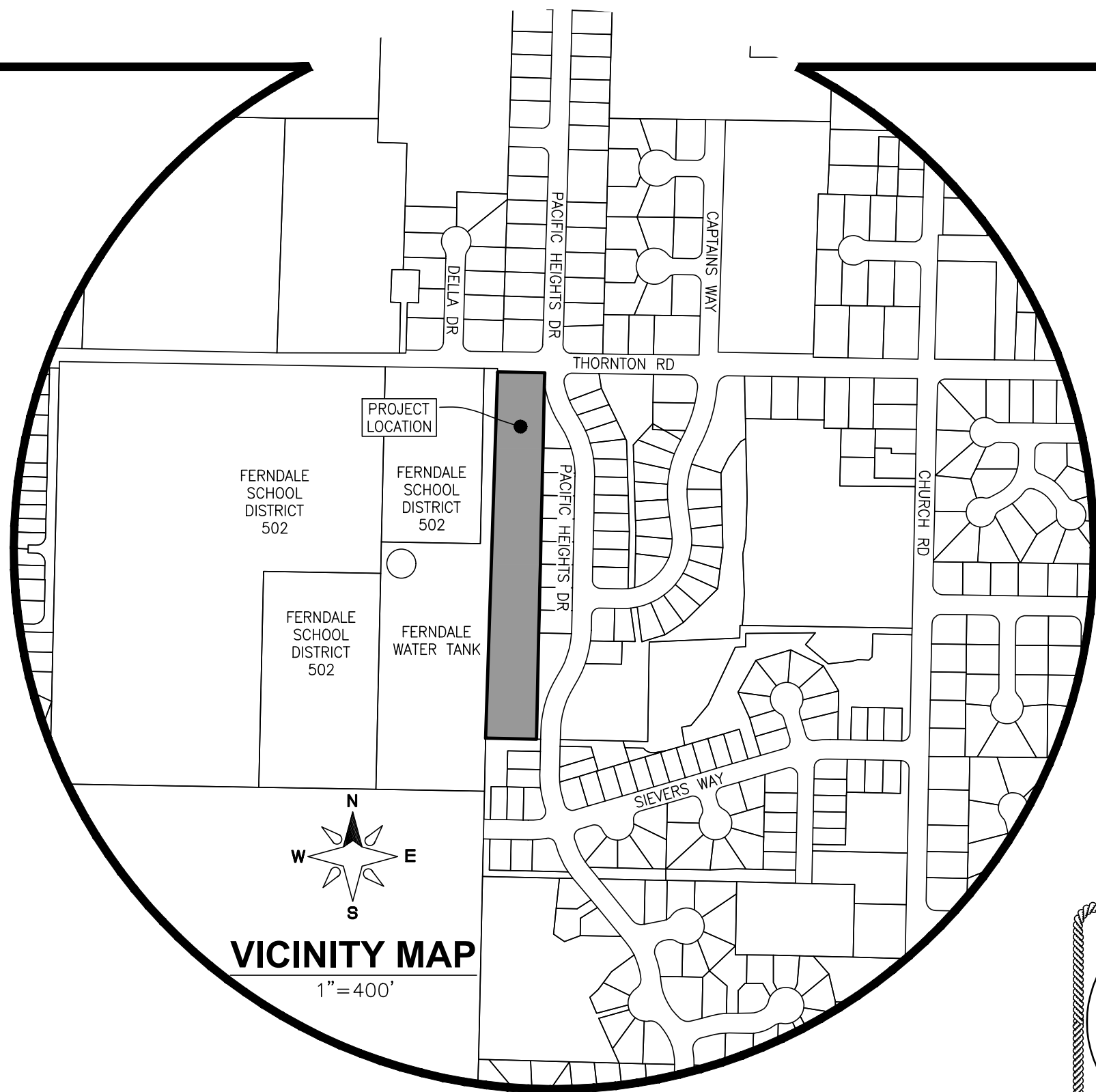


A PORTION OF THE NE 1/4 OF THE NE 1/4 OF SECTION 24, T39N., R1E., W.M.  
CITY OF FERNDAL, WHATCOM COUNTY, WASHINGTON

THORNTON HEIGHTS  
CONSTRUCTION PLANS



CONTACT INFORMATION

**CIVIL ENGINEER**  
LDES, INC.  
5160 INDUSTRIAL PL., SUITE 108  
FERNDAL, WA 98248  
CONTACT: RAMON LLANOS, PE.  
EMAIL: RAMON@LDESINC.COM  
PHONE: (360) 383-0620

**OWNER**  
MATTHEW LYNCH  
6420 CHURCH RD  
FERNDAL, WA 98248  
EMAIL: RUBICONDC@GMAIL.COM  
PHONE: (360) 318-4825

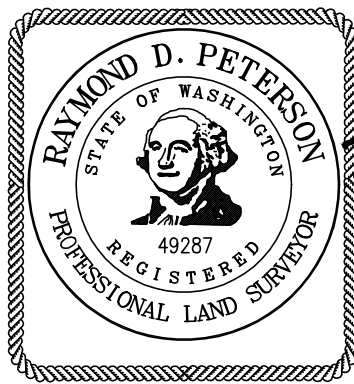
**SURVEYORS**  
LDES, INC.  
5160 INDUSTRIAL PL., SUITE 108  
FERNDAL, WA 98248  
CONTACT: RAY PETERSON, PLS  
EMAIL: RAY@LDESINC.COM  
PHONE: (360) 383-0620



RECORD DRAWINGS PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THE IMPROVEMENTS IN THORNTON HEIGHTS HAVE BEEN INSPECTED BY LDES INC. AND TO THE BEST OF MY KNOWLEDGE, HAVE BEEN CONSTRUCTED IN CONFORMANCE WITH THE CITY OF FERNDAL DEVELOPMENT STANDARDS, THE CITY OF FERNDAL MUNICIPAL CODE, SUBSEQUENT STANDARDS ADOPTED BY REFERENCE THEREIN, AND STANDARD ENGINEERING PRACTICE.

DATE 2-7-25  
RAYMOND LLANOS, PE



RECORD DRAWINGS PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THE LOCATIONS, ELEVATIONS, DEPTHS, AND AS-BUILT COMMENTS REFLECTING MATERIALS ACTUALLY USED DURING CONSTRUCTION ACCURATELY REFLECT EXISTING FIELD CONDITIONS AS DETERMINED BY ME OR MY FIELD REPRESENTATIVE.

DATE 2-7-25  
RAYMOND PETERSON, PLS

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- COVER SHEET
- CITY OF FERNDAL NOTES
- STORMWATER POLLUTION PREVENTION PLAN
- EXISTING CONDITIONS
- EXISTING CONDITIONS
- PROPOSED PLAT
- TEMPORARY EROSION CONTROL PLAN, NOTES, & DETAILS
- COMPOSITE SITE PLAN
- GRADING PLAN
- ENTRANCE GRADING PLAN
- ADA RAMP GRADING
- STORMWATER PLAN & PROFILE
- STORMWATER PLAN & PROFILE II
- WATER & SEWER PLAN & PROFILE
- RETAINING WALL FOOTING DRAIN PLAN & PROFILE
- EAST & WEST RETAINING WALL PLAN & PROFILES
- LIGHTING & ELECTRICAL PLAN
- VAULT DETAILS
- ROAD & STORM DETAILS
- WATER & SEWER DETAILS
- PSE DETAILS
- PSE PLAN
- S1 - STORMWATER VAULT PLAN & DETAILS
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- S3 - RETAINING WALL PLAN & DETAILS
- S4 - STANDARD STRUCTURAL SPECIFICATIONS
- ILLUMINATION ANALYSYS

PROJECT SUMMARY

OWNER	MATTHEW LYNCH 6420 CHURCH RD FERNDAL, WA 98248
SITE ADDRESS	2593 THORNTON ST
PARCEL NO.	390124 416472 0000
SITE AREA	173,205 SF (3.98 ACRES)
CITY ZONING	RS LOW-SINGLE FAMILY DWELLING
PROJECT DESCRIPTION	-10 LOT SUBDIVISION -PROVIDE STORM, SEWER, WATER & DRY UTILITIES -PAVED ACCESS ROAD W/ CONCRETE SIDEWALK -STORMWATER FACILITIES

PROPOSED LEGEND

	SANITARY SEWER MANHOLE		SANITARY SEWER LINE
	SANITARY SEWER CLEANOUT		SANITARY SEWER FORCE MAINS
	SANITARY SEWER SERVICE		STORM DRAIN LINE
	STORM DRAIN CATCH BASIN TYPE 2		STORM CULVERT
	STORM DRAIN CATCH BASIN TYPE 1		PERFORATED STORM PIPE
	STORM AREA DRAIN		ROOF & YARD DRAIN
	STORM DRAIN SERVICE		WATER LINE
	STORM DRAIN CLEANOUT		RECLAIMED WATER
	STORM DRAIN ROOF DOWNSPOUT		IRRIGATION
	FIRE HYDRANT		GAS LINE
	WATER METER		COMMON UTILITIES
	GATE VALVE		POWER
	BLOW-OFF		CONDUIT
	THRUST BLOCK		FIBER OPTIC
	PRESSURE RELIEF VALVE		DITCH LINE
	FIRE DEPARTMENT CONNECTION (FDC)		DAYLIGHT CUT LINE
	POST INDICATOR VALVE (PIV)		DAYLIGHT FILL LINE
	IRRIGATION BOX		FENCE
	WELL		GUARDRAIL
	GAS METER		RETAINING WALL
	POWER TRANSFORMER		ROCKERY
	POWER VAULT		ROAD STRIPING
	POWER JUNCTION BOX		FACE OF CURB
	GUY POLE		TOP BACK OF CURB
	UTILITY POLE		BUILDING
	UTILITY POLE ANCHOR		ROOF
	STREET LIGHT		DECK
	SIGN		LOT LINE
	MAIL BOX		CENTERLINE
	POST OR BOLLARD		RIGHT-OF-WAY
	RIP RAP		EASEMENT
	SHRUB		SETBACK
	TREE - DECIDUOUS		ASPHALT
	TREE - CONIFEROUS		CONCRETE
			GRAVEL
			LANDSCAPE

BURIED UTILITIES NOTE:

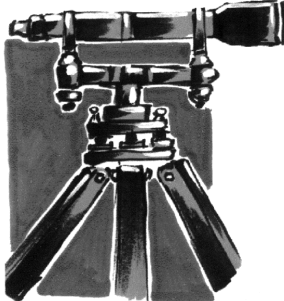
ALL UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE LOCATIONS ONLY AND THERE IS NO GUARANTEE THAT ALL UTILITIES ON THIS SITE ARE SHOWN. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTACT THE WASHINGTON STATE UTILITY LOCATED CENTER AT LEAST 48 HOURS BEFORE CONSTRUCTION.

CALL 2 BUSINESS DAYS BEFORE YOU DIG  
UTILITIES UNDERGROUND LOCATION CENTER  
1-800-424-5555

ABBREVIATIONS

AB	= ASBUILT	FND	= FOUND	SCH	= SCHEDULE
AC	= ACRE	GND	= GROUND	SD	= STORM DRAIN
AF#	= AUDITORS FILE NUMBER	GUTT	= GUTTER	SDCB	= STORM DRAIN CATCH BASIN
APPROX	= APPROXIMATE	GV	= GATE VALVE	SDCO	= STORM DRAIN CLEANOUT
ASPH	= ASPHALT	HYD	= FIRE HYDRANT	SDMH	= STORM DRAIN MANHOLE
BLDG	= BUILDING	IE	= INVERT ELEVATION	SERV	= SERVICE
BMP	= BEST MANAGEMENT PRACTICE	INV	= INVERT	SF	= SQUARE FEET
BNDRY	= BOUNDARY	IRRG	= IRRIGATION	SQ.IN.	= SQUARE INCHES
BVCS	= BEGINNING OF VERTICAL CURVE STATION	JBOX	= JUNCTION BOX	SS	= SANITARY SEWER
BVCE	= BEGINNING OF VERTICAL CURVE ELEVATION	lbs.	= POUNDS	SSCO	= SANITARY SEWER CLEAN OUT
CB	= CATCH BASIN	LF	= LINEAR FEET	SSMH	= SANITARY SEWER MANHOLE
CL	= CENTERLINE	LT	= LEFT	ST	= STREET
CMP	= CLASS	MAX	= MAXIMUM	STD/STND	= STANDARD
CO	= CORRUGATED METAL PIPE	MIN	= MINIMUM	STA	= STATION
CONC	= CONCRETE	MON	= MONUMENT	STRC	= STRUCTURE
COR	= CORNER	N	= NORTH	SWALK	= SIDEWALK
CPDP	= CORRUGATED POLYETHYLENE DRAIN PIPE	NIC	= NOT IN CONTRACT	SWMF	= STORM WATER MANAGEMENT FILTER
CPP	= CORRUGATED POLYETHYLENE PIPE	NO.	= NUMBER	SWMM	= STORM WATER MANAGEMENT MANUAL
CSTC	= CRUSHED SURFACING TOP COURSE	O.C.	= ON CENTER	SWPPP	= STORMWATER POLLUTION PREVENTION PLAN
CSCC	= CRUSHED SURFACING BASE COURSE	O.D.	= OUTSIDE DIAMETER	TA	= TOP OF ASPHALT
CTRL	= CONTROL	O/S	= OFFSET	TC	= TOP OF CONCRETE
CULV	= CULVERT	PC	= POINT OF CURVATURE	TEL/TELE	= TELEPHONE
DEC	= DEGREE	PERF	= PERFORATED PIPE	TEMP	= TEMPORARY
DEMO	= DEMOLITION	PERM	= PERMANENT	TESS	= TEMPORARY EROSION & SEDIMENT CONTROL
DI	= DUCTILE IRON	POB	= POINT OF BEGINNING	TP	= TOP OF PAVEMENT
DOE	= DEPARTMENT OF ECOLOGY	PP	= POWER POLE	TS	= TOP OF SIDEWALK
DTL	= DRAWINGS	PRP/PROP	= PROPOSED	TW	= TOP OF WALL
DWGS	= DRAWINGS	PSE	= PUGET SOUND ENERGY	TY	= TYPICAL
E	= EASTING	PVC	= POLYVINYL CHLORIDE PIPE	UG	= UNDERGROUND
EA	= EAST	PVI	= POINT OF VERTICAL INTERSECTION	VC	= VERTICAL CURVE
EL/ELEV	= ELEVATION	PWR	= POWER	VEG/VEGE	= VEGETATION
EOP	= EDGE OF PAVEMENT	R	= RADIUS	W	= WEST
ESMT	= EASEMENT	RET	= RETAINING	WM	= WATER MAIN
EVCS	= END OF VERTICAL CURVE STATION	RM	= RIGHT	WM	= WATER METER
EVCE	= END OF VERTICAL CURVE ELEVATION	ROW	= RIGHT OF WAY	WSDOT	= WASHINGTON DEPARTMENT OF TRANSPORTATION
EX/EXIST	= EXISTING	RR	= RAILROAD	W/IN	= WITHIN
FF/FFE	= FINISH FLOOR	RT	= RIGHT	X-ING	= CROSSING
FG	= FINISH GROUND	RY	= RIGHT AND YARD	Ø	= DIAMETER
FH	= FIRE HYDRANT	S	= SLOPE		
FL	= FLOW LINE	SAN	= SANITARY		

NO.	REVISION	BY	DATE



**LDES, INC.**  
5160 INDUSTRIAL PL. #108  
FERNDAL, WA 98248  
PHONE 360-383-0620  
FAX 360-383-0639

**MATTHEW LYNCH**

6249 CHURCH RD  
FERNDAL, WA 98248

PROJECT #: 2196  
DATE: 3/19/2025  
DESIGNED BY: RL  
DRAWN BY: JRF  
CHECKED BY: RL

RECORD DRAWINGS PROFESSIONAL CERTIFICATION

THIS DRAWING REPRESENTS THE WORK AS CONSTRUCTED AND ALL MODIFICATIONS MEET THE PERFORMANCE STANDARDS OF THE ORIGINAL DESIGN.

DATE  
RAYMOND LLANOS, PE

APPROVED  
03/20/2025

BY   
CITY OF FERNDAL  
PUBLIC WORKS DEPARTMENT

COVER SHEET

THORNTON HEIGHTS

AF 390124-416472-0000 - 2593 THORNTON ST, FERNDAL, WASHINGTON  
A PORTION OF THE NE 1/4 OF THE NE 1/4 OF SECTION 24, TOWNSHIP39 N., RANGE 1 E., W.M.

SHEET

1

OF

18



**ROAD:**

- THE FOLLOWING STANDARD DETAILS SHALL BE USED FOR CONSTRUCTION OF THE STANDARD STREET SECTION:  
TYPICAL STREET SECTION PER THESE PLANS  
PCC CURB AND GUTTER CFSQ R-9  
PCC SIDEWALKS CFSQ R-12 (SEE CONSTRUCTION DOCUMENTS' STANDARD SECTION)  
PCC CURB RAMPS WSQST STD. DETAIL F-40
- ROADWAY EXCAVATION WITHIN THE ROADWAY PRISM SHALL BE CUT TO A UNIFORM GRADE. THE COMPLETED SUBGRADE SURFACE SHALL NOT BE LOWER THAN THE LOWER EDGE OF A 15-FOOT STRAIGHTEDGE PLACED ON THE SUBGRADE PARALLEL TO THE CENTERLINE UNLESS APPROVED BY THE ENGINEER.
- THE OWNER SHALL PROVIDE TO THE ENGINEER A REPORT FROM A QUALIFIED GEOTECHNICAL FIRM CERTIFYING THE IMPACT OF THE GRAVEL BASE UNDER ALL PAVING AREAS.
- ASPHALT CONCRETE PAVEMENT SHALL BE CLASS "B" MATERIALS AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS, SECTION 5-04, EXCEPT AS MODIFIED HEREIN. CONNECTION TO EXISTING PAVEMENT SHALL BE TO A STRAIGHT NEATLY-FINISHED LINE.
- CRUSHED ROCK SURFACING FOR PAVEMENT SHALL BE IN ACCORDANCE WITH WSQST STANDARD SPECIFICATION, SECTION 9-03.9(3); BALLAST PER SECTION 9-03.9(1).
- CEMENT CONCRETE SHALL BE CLASS 3000 (WITH AIR ENTRAINMENT) IN ACCORDANCE WITH WSQST STANDARD SPECIFICATION, SECTION 6-02.3(2B).
- CEMENT CONCRETE SIDEWALK SHALL BE CONSTRUCTED AS SHOWN ON THE PLANS OR AS DESIGNATED BY THE ENGINEER IN ACCORDANCE WITH CITY STANDARDS, DRAWING NO. R-12.
- CEMENT CONCRETE DRIVEWAYS SHALL BE 6 INCHES THICK AND CONSTRUCTED WHERE SHOWN ON THE PLANS OR DESIGNATED BY THE ENGINEER IN ACCORDANCE WITH THE CITY STANDARDS, DRAWING NO. R-15. A 2- INCH LATER OF 3/4 INCH DRAIN GRADE SHALL BE USED FOR DRIVEWAY BEDDING.
- CEMENT CONCRETE CURB AND GUTTER SHALL BE CONSTRUCTED WHERE SHOWN ON THE PLANS OR AS DESIGNATED BY THE ENGINEER, IN ACCORDANCE WITH WSQST STANDARDS SPECIFICATIONS, SECTION 8-04 AND CITY OF FERNDALE STANDARDS, DRAWING R-8 AND R-9. HANDICAP RAMPS SHALL BE CONSTRUCTED PER WSQST STANDARD PLANS F-40, WHERE NEW CURB AND CONCRETE CURB AND GUTTER IS CONNECT TO EXISTING CURB AND GUTTER, ASSURE THAT NO ABRUPT OFFSETS IN LOWER GRADE SHALL BE CONSTRUCTED WHICH WILL BE UNSIGHTLY OR IMPEDE FLOW IN THE GUTTER LINE.
- SOIL:  
A. SALT RESIDUAL HERBICIDE SHALL BE PLACED WITHIN 24 HOURS OF PAVING.  
B. A TACK COAT OF ASPHALT SHALL BE APPLIED BETWEEN ALL COURSES OF ASPHALT.  
C. ALL PAVEMENT REPAIR SHALL BE SAW-CUT BEFORE REMOVAL. AR-4000W SHALL BE APPLIED TO ALL EDGES OF EXISTING PAVEMENT, WHERE NEWLY CONSTRUCTED PAVING MEETS EXISTING PAVING, THE APPLICANT SHALL PROVIDE A SMOOTH TRANSITION FROM EXISTING TO PROPOSED PAVING. CONTRACTOR SHALL COLD PLANE PER DIMENSIONS SPECIFIED ON THE PLANS, AND INSTALL A MINIMUM 2-FOOT WIDE PETROCAT PAVING FABRIC, OR EQUIVALENT, OVER JOINT BETWEEN PAVING LIFTS.
- THRU-CURE CURB AND THRU-CURE INLETS CONFORMING TO THE WSQST STANDARD SPECIFICATIONS, SECTION 7-05 SHALL BE CONSTRUCTED AT THE LOW POINT OF THE CURB FLOW LINES AND TO THE LOCATIONS, DIMENSIONS, AND DETAILS AS SHOWN ON THE PLANS OR DESIGNATED BY THE ENGINEER AND CITY STANDARDS, DRAWING NO. R-8.
- TRENCH EXCAVATIONS, BEDDING AND PIPE FOR STORMWATER PIPE LAYING SHALL BE IN ACCORDANCE WITH THE WSQST STANDARD SPECIFICATIONS, SECTION 7-08.
- STORM SEWER PIPE CONSTRUCTION REQUIREMENTS SHALL BE IN ACCORDANCE WITH WSQST STANDARD SPECIFICATION, SECTION 7-04. MATERIAL SHALL BE HANCOR SURE-LOK F477 PIPE OR CITY APPROVED EQUAL. LOTS 5 STORM DRAIN SERVICE LINE SHALL BE 6" PVC PER WSQST STANDARD SPECIFICATION, SECTION 9-05.1(5).
- PERFORATED UNDERDRAIN PIPE SHALL MEET THE WSQST STANDARD SPECIFICATION 7-01.3(2) .

**EARTHWORK:**

- A. THE CONTRACTOR SHALL REMOVE AND REPLACE ALL EXISTING UN-COMPACTED OR POORLY COMPACTED FILL SOILS WITHIN THE ROAD PRISM AT THE DIRECTION OF THE ENGINEER.
- B. THE CONTRACTOR SHALL EXCAVATE AND GRADE TO THE ALIGNMENT, GRADE AND CROSS-SECTIONS SHOWN IN THE PLANS OR ESTABLISHED BY THE ENGINEER.
- C. EXISTING MATERIAL FOUND AND NOT FIT FOR USE AS A SUB-GRADE SHALL BE EXCAVATED TO THE BOUNDARIES SET BY THE ENGINEER AND REPLACED WITH A SUITABLE BACKFILL MATERIAL.
- D. THE ENGINEER IS REQUIRED TO CERTIFY SUBGRADE, IN WRITING, PRIOR TO PAVING.

**BASE COURSES AND SURFACING:**

- A. GRAVEL BASES AND BALLAST MATERIAL GRADATION SHALL MEET WSQST STANDARD SPECIFICATIONS.
- B. BALLAST, GRAVEL BASE AND CRUSHED SURFACING SHALL BE COMPACTED TO AT LEAST 95% OF MAXIMUM DRY DENSITY.
- C. THE GRADED AND COMPACTED SURFACE OF THE CRUSHED SURFACING TOP COURSE SHALL BE WITHIN 1/4 INCH OF FINISHED GRADE.
- D. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIAL AND COMPACTION TESTING. PRIOR TO IMPORTING OF MATERIAL FOR BASE AND CRUSHED SURFACING TOP COURSE THE CONTRACTOR SHALL PROVIDE EVIDENCE OF SATISFACTORY PASSING GRADING AND DEGRADATION TEST RESULTS TO THE ENGINEER.

**WATER:**

- THE FOLLOWING STANDARD DETAILS SHALL BE USED IN CONSTRUCTING WATER SUPPLY SYSTEM IMPROVEMENTS:  
PIPE BEDDING CFSQ W-11  
TRENCH BACKFILL CFSQ W-11  
FIRE HYDRANT ASSEMBLY CFSQ W-1  
THRUST BLOCKING CFSQ W-2, W-3 & W-4  
WATER SERVICE CFSQ W-5
- ALL WORK AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF THE CITY OF FERNDALE DEVELOPMENT STANDARDS, SECTIONS 702 AND 705 AND THE MOST RECENT VERSION OF WSQST STANDARD SPECIFICATIONS.
- ALL WATER MAIN PIPE SHALL BE DUCTILE IRON, MINIMUM THICKNESS CLASS 50, PER AWWA STANDARDS H3-71 AND C151-71, WITH CEMENT LINING PER AWWA STANDARD C104-71.
- MATERIAL FOR FITTINGS SUCH AS CROSSES, TEES, BENDS, REDUCERS AND SLEEVES SHALL BE DUCTILE IRON. JOINTS SHALL BE M.J., FLANGED OR LUSH-ON JOINTS AND SHALL CONFORM TO AWWA SPECIFICATIONS C-110-71 AND C-104-71.
- CONCRETE BLOCKING SHALL BE AS SPECIFIED IN CITY OF FERNDALE STANDARD DETAILS W-3, W-2, W-3 AND W-4, OR AS DIRECTED BY THE PROJECT ENGINEER. BLOCKS SHALL BE INSTALLED AS SPECIFIED IN SECTION 7-09.3(21) OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE OR MUNICIPAL CONSTRUCTION. NO PRE-CAST BLOCKS ARE ALLOWED.
- CONNECTIONS TO EXISTING WATER MAINS - THE CONTRACTOR MUST NOTIFY THE CITY OF FERNDALE PUBLIC WORKS DIRECTOR OF A PROPOSED CONNECTION AT LEAST FOUR WORKING DAYS IN ADVANCE.
- ALL HYDROSTATIC TESTING AND DISINFECTION OF WATER MAINS SHALL CONFORM TO SECTION 7-09.3(23) AND SECTION 7-09.3(24)OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE OR MUNICIPAL CONSTRUCTION - CURRENT EDITION. HYDROSTATIC TEST PRESSURE FOR WATER MAIN ACCEPTANCE SHALL BE 225 PSF AND SHALL BE DONE ACCORDING TO CITY OF FERNDALE REQUIREMENTS. THE CITY OF FERNDALE LABORATORY SHALL CONDUCT ALL DISINFECTION TESTS AND BACTERIOLOGICAL TESTS. THE PIPE WILL NOT PASS TESTING UNLESS A ZERO BACTERIAL COUNT IS MEASURED ON TWO CONSECUTIVE TESTS, CONDUCTED 24 HOURS APART.
- BACKFILL SHALL BE GRAVEL BASE, CLASS B, IN ALL STREET RIGHTS-OF-WAY, COMPACTED TO MINIMUM 95% OPTIMUM DENSITY. IN UNIMPROVED AREAS, MINIMUM COMPACTION SHALL BE 90% OF OPTIMUM DENSITY.
- ALL PIPES SHALL HAVE A MINIMUM COVER OF 36".
- ALL VALVES SHALL BE GATE VALVES AND SHALL BE INSTALLED WITH SLIP TYPE CAST IRON VALVE BOXES. GATE VALVES SHALL BE USED FOR LINES 2 INCHES THROUGH 10 INCHES IN DIAMETER. SHORT-BODY VALVES SUITABLE FOR A NON-SHOOT SHUT-OFF PRESSURE OF 130 PSF AND SUITABLE FOR DIRECT BURIAL ARE SPECIFIED. GATE VALVES SHALL BE RESILIENT SEATED IRON-BODY, FULL-BRONZE MOUNTED VALVES CONFORMING TO AWWA C509 AND SUITABLE FOR SERVICE WITH THE TYPE AND CLASS OF PIPE USED. ALL VALVES SHALL HAVE NON-RISING STEMS AND SHALL OPEN COUNTERCLOCKWISE AND SHALL BE EQUIPPED WITH A 2 INCH SQUARE OPERATING NUT. VALVES WILL BE FLANGE OR M.J. JOINTS. VALVE MARKERS SHALL BE LOCATED OUTSIDE OF PAVEMENT SECTIONS.
- WATER SERVICE TAP INSTALLATIONS SHALL MEET THE REQUIREMENTS OF THE CFSQ W-5.
- FIRE HYDRANTS AND FIRE MAINS MUST CONFORM TO CFSQ- SD W-1 (WSQST 8-19) AND THE FOLLOWING STANDARDS:  
A. FIRE HYDRANTS SHALL HAVE TWO INDIVIDUALLY VALVED 2-1/2" PORTS AND ONE 5-1/4" MAIN VALVE OPENING. A 4-1/2" NPT FEMALE NOZZLE AND A 5" STORT PORT WITH CAP AND AIRCRAFT CABLE SHALL BE SUPPLIED. HYDRANTS SHALL BE MANDATORY HYDRANTS.  
B. FIRE HYDRANTS SHALL HAVE THE STORT PORT FACING THE REQUIRED ACCESS AND THE BASE FLANGE OF THE HYDRANT MUST NOT VARY MORE THAN 1" FOOT IN ELEVATION FROM THE GRADE LEVEL OF THE REQUIRED ACCESS. THE LOWEST STEM SHALL BE 1 MIN. ABOVE THE GRADE.  
C. IF THE PUBLIC WORKS DIRECTOR DETERMINES THAT FIRE HYDRANTS ARE VULNERABLE TO VEHICULAR DAMAGE, APPROPRIATE PROTECTION SHALL BE PROVIDED. NO OBSTRUCTIONS SHALL EXIST WITHIN A 3-FOOT WORKING AREA OF EACH REQUIRED ACCESS. CHURN POSTS SHALL BE CEMENT-FILLED PIPE A MIN. OF 3" IN HEIGHT WITH A MIN. OF 2" OF PIPE BELOW GRADE. HYDRANT SHUTOFF VALVES SHALL BE LOCATED BETWEEN 5' AND 20' FROM THE HYDRANT.  
D. UNDERGROUND SUPPLIES TO FIRE HYDRANTS MUST BE INSPECTED. SUCH INSPECTION SHALL INCLUDE VISUAL INSPECTION OF PIPING AND HYDROSTATIC PRESSURE TESTING TO A MIN. OF 225 PSF. A FLOW TEST WILL BE REQUIRED WHERE INSTALLATION IS COMPLETED.  
E. FIRE HYDRANTS MUST BE MAINTAINED IN AN OPERABLE CONDITION AT ALL TIMES AND MUST BE REPAIRED OR REPLACED WHEN DEFECTIVE. HYDRANTS SHALL BE FULLY OPERABLE BEFORE CONSTRUCTION COMMENCES ABOVE GRADE LEVEL.

**SANITARY SEWER SYSTEMS:**

- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE MOST RECENT STANDARD SPECIFICATIONS AND DETAILS, A.P.W.A. STANDARD SPECIFICATIONS, AND WSQST STANDARD SPECIFICATIONS. THE MOST RECENT STANDARD SPECIFICATIONS FOR SANITARY SEWER SYSTEM INSTALLATION, BOTH PUBLIC AND PRIVATE, IS SUBJECT TO CITY REVIEW AND APPROVAL.
- ALL WORK MUST BE COMPLETED WITHIN THE CITY OF FERNDALE 24 HOUR NOTICE MUST BE GIVEN PRIOR TO STARTING WORK. TESTING OF THE SANITARY SEWER SYSTEM AND ALL CONNECTIONS TO EXISTING MAINS SHALL BE PERFORMED IN THE PRESENCE AND UNDER THE SUPERVISION OF A CITY OF FERNDALE REPRESENTATIVE.
- SANITARY SEWER MAINS SHALL BE A MINIMUM 8 INCH DIAMETER PIPE (SDR-35) CONFORMING TO THE PROVISIONS OF ASTM D 3034 AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE CITY OF FERNDALE STANDARD DETAILS SS-1, SS-2 AND SS-3, EXCEPT THAT SINGLE SIDE SEWERS SHALL BE WITHIN CITY RIGHT OF WAY AND TRAVELED BY RIGHT OF WAY (ACCESS EASEMENTS) AND SHALL BE COMPACTED TO A MINIMUM DENSITY OF 95% UNIFORM PROCTOR. USE OF AVAILABLE NATIVE BACKFILL OUTSIDE OF TRAVELED WAY SHALL BE SUBJECT TO APPROVAL BY THE CITY.
- ALL MANHOLES SHOWN ON THE PLANS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF FERNDALE STANDARD DETAILS AND SHALL BE PRE-CHANNELLED. MANHOLE CONES ARE TO BE SET SUCH THAT DOWNER RUNS ARE PARALLEL TO THE FLOW.
- ALL SIDE SEWERS SHALL BE INSTALLED PER CITY OF FERNDALE STANDARD DETAILS SS-6, SS-8 OR SS-13, EXCEPT THAT SINGLE SIDE SEWERS SHALL HAVE A MINIMUM DIAMETER OF 8 INCH.
- CONTRACTOR SHALL EXTEND SEWER STUBS 5 FT BEYOND UTILITY CORRIDOR OR 15 FEET BEYOND RIGHT-OF-WAY LINE.
- CONTRACTOR SEWER STUB SHALL BE CAPPED WITH A WATERIGHT PLUG. EACH STUB SHALL BE MARKED FOR LOCATION WITH A 2" DIA. PVC PIPE (SEE SCHEDULE 40) WITH THE TOP 18" PAINTED GREEN AND STENCILED WITH THE WORD "SEWER" AND THE PIPE INVERT INDICATED. THE LOCATION MARKER SHALL BE CONNECTED TO THE SERVICE STUB BY A #12 COPPER WIRE.

BLANKETS VERSUS RIPRAP). THE DESIGN, CONSTRUCTION AND STABILIZATION OF THE CONVEYANCE CHANNELS WILL BE CONSISTENT WITH THE METHODS OUTLINED IN BMP C202. WASHINGTON STATE DEPARTMENT OF ECOLOGY BMPs CONSIDERED FOR ELEMENT #6 INCLUDE:

- BMP C202: CHANNEL LINING
- BMP C209: OUTLET PROTECTION

**ELEMENT 9: CONTROL POLLUTANTS**

WASTE MATERIALS GENERATED ON SITE WILL BE HANDLED AND DISPOSED OF IN A MANNER THAT DOES NOT CAUSE CONTAMINATION OF STORMWATER, INCLUDING COVERING DUMPSTERS AND STOCKPILES. ROUTINE INSPECTIONS OF THE WASTE MATERIAL STORAGE AREAS WILL BE CONDUCTED TO MAKE SURE THAT LEAKS OR SPILLS DO NOT OCCUR. ANY LEAKAGE OR SPILLS WILL BE CLEANED UP IMMEDIATELY. A SPILL RESPONSE KIT THAT INCLUDES ABSORBENT MATERIAL WILL BE AVAILABLE ON SITE. USED ABSORBENT MATERIAL WILL BE DISPOSED OF PROPERLY.

MAINTENANCE OF HEAVY EQUIPMENT INVOLVING OIL CHANGES, HYDRAULIC SYSTEM DRAIN DOWN, SOLVENT AND DE-GREASING CLEANING AND/OR OTHER ACTIVITIES THAT MAY RESULT IN DISCHARGE OR SPILLAGE OF POLLUTANTS TO THE GROUND OR INTO STORMWATER RUNOFF WILL BE CONDUCTED WITH SPILL PREVENTION MEASURES IN PLACE, INCLUDING CONDUCTING MAINTENANCE ON A TEMPORARY PAD THAT CAN BE USED TO CAPTURE LARGE SPILLS AND THE USE OF DRP PANS. IF EMERGENCY REPAIRS NEED TO BE PERFORMED AND CLIMATIC CONDITIONS MAY RESULT IN A PRECIPITATION EVENT PRIOR TO THE REPAIR BEING COMPLETED, THE REPAIR AREA, WHICH INCLUDES THE VEHICLE, WILL BE COVERED WITH TAPPS OR OTHER PLASTIC SHEETING.

DISCHARGES, SPILLS, OR LEAKS WILL BE CLEANED IMMEDIATELY. THE NOTIFICATION PROCEDURE OUTLINED IN THE PERMANENT SITE SWPPP IS AS FOLLOWS:

- NOTIFY KEY PERSONNEL - DURING CONSTRUCTION, THE CESCL (IF APPLICABLE) AND CONTRACTOR WILL BE PROVIDING PROJECT OVERSIGHT AND WILL BE CONTACT THE ENGINEER OF RECORD IN THE EVENT OF A SPILL. THE ENGINEER OF RECORD WILL CONTACT THE SITE OWNER AND THE DEPARTMENT OF ECOLOGY. ANY SPILLS WITH POTENTIAL TO DISCHARGE TO STORM DRAINS, SANITARY SEWER SYSTEM, OR SURFACE WATERS WILL BE REPORTED TO CITY OF FERNDALE.
  - ALL SPILLS WILL BE REPORTED TO THE DEPARTMENT OF ECOLOGY, SPILL RESPONSE PROGRAM (425) 649-7000.
- WASHINGTON STATE DEPARTMENT OF ECOLOGY BMPs CONSIDERED FOR ELEMENT #9 INCLUDE:
- BMP C151: CONCRETE HANDLING
  - BMP C152: SAW CUTTING AND SURFACING POLLUTION PREVENTION
  - BMP C153: MATERIAL DELIVERY, STORAGE AND CONTAINMENT
  - BMP C154: CONCRETE WASHOUT AREA

**ELEMENT 10: CONTROL DEWATERING**

SITE DE-WATERING MAY BE NEEDED DURING CONSTRUCTION AS THE GRADING WILL BE CLOSE TO THE FOUND GROUNDWATER. CLEAN, NON-TURBID DE-WATERING WATER, SUCH AS WELL-POINT DRAIN WATER, CAN BE DISCHARGED DIRECTLY INTO THE OPEN TOP COMBINED DETENTION/RETAINMENT FOUNDATION, VAULT, AND TRENCH DE-WATERING WATER, WHICH HAS SIMILAR CHARACTERISTICS TO STORMWATER RUNOFF AT THE SITE, SHALL BE DISCHARGED INTO THE DETENTION POND ON-SITE. IF CHANNELS ARE USED, THEY MUST BE STABILIZED, AS SPECIFIED IN ELEMENT #6. HIGHLY TURBID OR OTHERWISE CONTAMINATED Dewatering WATER, SUCH AS FROM CONSTRUCTION EQUIPMENT OPERATION, CLAMSHELL DIGGING, CONCRETE TREMIE POUR, OR WORK INSIDE A COFFERDAM, SHALL BE HANDLED SEPARATELY FROM STORMWATER.

OTHER DISPOSAL OPTIONS, DEPENDING ON SITE CONSTRAINTS, MAY INCLUDE: 1) TRANSPORT OFF-SITE IN A VEHICLE, SUCH AS A VACUUM FLUSH TRUCK; FOR LEAKAGE DISPOSAL IN A DITCH OR DRAINAGE DITCH; 2) OILY POLLUTE SITE WATERS; 3) OILY POLLUTE ON-SITE OILY POLLUTANT TREATMENT OR OTHER SUITABLE TREATMENT TECHNOLOGIES; 3) SANITARY SEWER DISCHARGE WITH LOCAL SEWER DISTRICT APPROVAL, IF THERE IS NO OTHER OPTION, OR 4) USE OF A SEDIMENTATION BASIN WITH OUTFALL TO A DITCH OR SWALE FOR SMALL VOLUMES OF LOCALIZED Dewatering.

**ELEMENT 11: MAINTAIN BMPs**

ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL BMPs WILL BE INSPECTED, MAINTAINED, AND REPAIRED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. MAINTENANCE AND REPAIR SHALL BE CONDUCTED IN ACCORDANCE WITH THE

**UNDERGROUND UTILITIES CONSTRUCTION:**

- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE ENGINEER TO ASSURE ACCURATE AND TIMELY COLLECTION OF ALL REQUIRED AS-BUILT DATA. THIS DATA MUST ACCURATELY REFLECT THE LOCATIONS OF ALL UNDERGROUND UTILITIES, BOTTOM OF PIPE ELEVATIONS, INVERT ELEVATIONS, MANHOLE LOCATIONS, WATER SERVICE TAPS, BLOW-OFF LOCATIONS AND INVERTS OF SERVICE CONNECTIONS (BOTH AT PIPE AND AT PROPERTY LINE), VERTICAL AND HORIZONTAL BENDS, SERVICE BOXES AND METERS, VALVES AND HYDRANTS. CALL THE PROJECT ENGINEER AT LEAST 48-HOURS BEFORE SURVEYING UNDERGROUND PIPE TO ASSURE AND FACILITATE REQUIRED AS-BUILT SURVEY.
- THE CONSTRUCTION OF UNDERGROUND UTILITY LINES SHALL BE SUBJECT TO THE FOLLOWING CRITERIA:  
i. NO MORE THAN 500 FEET OF TRENCH SHALL BE OPENED AT ONE TIME.  
ii. WHERE CONSISTENT WITH SAFETY AND SPACE CONSIDERATIONS, EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF DITCHES.  
iii. TRENCH DEWATERING DEVICES SHALL DISCHARGE INTO SEDIMENT TRAPS OR SEDIMENT PONDS.  
iv. WHERE PRACTICAL, INSTALL GRAVITY PIPE UTILITIES PRIOR TO INSTALLATION OF OTHER UTILITIES.
- UTILITY CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF FERNDALE DEVELOPMENT STANDARDS.
- ALL UTILITY TRENCHES IN THE RIGHT OF WAY SHALL BE BACKFILLED IN CONFORMANCE WITH CITY STANDARDS.
- TESTING OF NEW WATER LINES, STORM SEWER SYSTEMS SHALL NOT BE PERFORMED UNTIL ALL OTHER ADJACENT UTILITIES HAVE BEEN INSTALLED.
- ALL UTILITY TRENCHES SHALL BE BACKFILLED AND COMPACTED TO 95% DENSITY IN LIFTS NOT TO EXCEED 24 INCHES WITH A "HOE PACK, OR 8 INCHES WITH HAND-OPERATED COMPACTION."
- OPEN CUTTING OF EXISTING ROADWAYS IS ONLY ALLOWED AS APPROVED AND NOTED ON THE APPROVED PLANS. ANY OPEN CUT SHALL BE RESTORED IN ACCORDANCE WITH THE FERNDALE STANDARD TRENCH DETAIL(S). ALL UTILITY TRENCHES UNDERNEATH AN EXISTING ROADWAY SHALL BE BACKFILLED WITH 150 PSF CONTROLLED DENSITY FILL.
- NO PART OF THE DRAINAGE SYSTEM MAY BE COVERED, CONCEALED, OR PUT INTO USE UNTIL IT HAS BEEN INSPECTED, TESTED, AND ACCEPTED BY THE CITY INSPECTOR.
- A MINIMUM OF 5-FOOT SEPARATION IS REQUIRED BETWEEN THE WET UTILITIES (WATER, SEWER, STORM) SHOWN ON THE PLANS AND THE DRY UTILITIES (GAS, POWER, CABLE AND POWER) THAT MAY OR MAY NOT BE SHOWN ON THE PLANS.

**STORM DRAINAGE:**

- THE FOLLOWING STANDARD DETAILS SHALL BE USED FOR CONSTRUCTION OF STORM DRAIN IMPROVEMENTS:  
CATCH BASINS TYPE 1, 1L OR 2 WSQST STD. DETAILS 8-5.20, 8-5.40 OR 8-10.20  
"RESIDENTIAL SERVICE LINE" CFSQ ST-7 (CITY OF FERNDALE STD DETAIL)  
CATCH BASINS CFSQ ST-16 (CITY OF FERNDALE STD DETAIL)
- STORM SEWER PIPE HAVING DIAMETERS GREATER THAN 8" SHALL BE CORRUGATED POLYETHYLENE PIPE (CPEP); ALL OTHER STORM SEWER PIPE SHALL BE PVC.
- ALL CATCH BASIN GRATES SHALL INCLUDE THE STAMPING "OUTFALL TO STREAM, DUMP NO POLLUTANTS".
- CATCH DENSITY FILL SHALL BE USED IN AREAS WHERE LESS THAN 18" OF COVER IS MAINTAINED OVER THE PROPOSED STORM PIPES (PIPE IS IN ROAD BASE SECTION), AS SHOWN IN THE PLANS. DUCTILE IRON PIPE MAY BE USED FOR STORM PIPES WITH LESS THAN 18" OF COVER IF APPROVED BY THE CITY.
- COVER OVER PIPES SHALL BE MAINTAINED DURING CONSTRUCTION. DEPTH OF COVER REQUIRED SHALL CONFORM TO THE MANUFACTURER'S RECOMMENDATIONS AND WILL VARY WITH THE VEHICLE LOADS TRAVELING OVER THE PIPE. NO ADDITIONAL COMPENSATION SHALL BE PROVIDED FOR DAMAGE TO PIPE DURING CONSTRUCTION ACTIVITIES.
- AT THE END OF ALL SITE CONSTRUCTION, THE CONTRACTOR SHALL CLEAN ALL DEBRIS FROM CATCH BASINS AND STORMWATER CONVEYANCES. DEBRIS SHALL NOT BE ALLOWED TO ENTER STREAMS OR OFF-SITE STORMWATER SYSTEMS.
- POSITIVE LOT DRAINS PER STANDARD DETAIL ST-16.
- THE CONTRACTOR IS RESPONSIBLE FOR CONTRACTING WITH AND SCHEDULING A PROFESSIONAL GEOTECHNICAL FIRM TO OBSERVE SOILS / FILLS AND VERIFY COMPACTION WITHIN PUBLIC RIGHT-OF-WAY AS SPECIFIED BY CITY STANDARDS AND/OR WSQST REQUIREMENTS. PRIVATE ON-SITE COMPACTION REQUIREMENTS AND METHODS WILL BE MONITORED BUT NOT REGULATED BY CITY INSPECTORS. THE ENGINEER OF RECORD AND CONTRACTOR MUST COMMUNICATE ON TESTING AND SCHEDULES FOR SAI TESTING REQUIRED FOR THE ENGINEER TO CERTIFY THE PROJECT.

**GENERAL REQUIREMENTS:**

- ALL WORK AND MATERIALS SHALL CONFORM TO THESE PLANS AND TO THE REQUIREMENTS OF THE CURRENT EDITION OF THE "STATE OF WASHINGTON, DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION" (WSQST SPECS.), THE CITY OF FERNDALE DEVELOPMENT STANDARDS (CFSQs) AND THE 2005 VERSION OF THE DEPARTMENT OF ECOLOGY STORM WATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON (DOW MANUAL). IN CASE OF A CONFLICT BETWEEN PLANS, REGULATORY STANDARDS OR SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT WILL PREVAIL.
- PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER CONSTRUCTION DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES. THROUGHOUT THE PERIOD OF CONSTRUCTION, CONTRACTOR SHALL COMPLY WITH THE TERMS OF ALL PERMITS.
- THE CONTRACTOR MUST HAVE A FULL SET OF CITY CONTRACT DOCUMENTS ON THE SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
- CONSTRUCTION NOISE SHALL BE LIMITED TO BETWEEN 7 a.m. TO 8 p.m., MONDAY THROUGH SATURDAY.
- THE CONTRACTOR SHALL CONTACT THE UTILITIES UNDERGROUND LOCATION CENTER AT LEAST 72 HOURS PRIOR TO STARTING CONSTRUCTION. PHONE: 1-800-424-5555. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL OF THE VARIOUS UTILITY COMPANIES TO ARRANGE FOR FIELD LOCATIONS OF ALL EXISTING UTILITY FACILITIES. NO EXTRA COMPENSATION WILL BE PAID TO THE CONTRACTOR FOR COSTS INCURRED BECAUSE OF DAMAGE DONE TO EXISTING FACILITIES BY THE CONTRACTOR'S WORK. FORCE, INCLUDING COSTS FOR REPAIRS, WHICH WILL BE CONTRACTOR'S SOLE RESPONSIBILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF ALL EXISTING UTILITIES AND TO NOTIFY THE ENGINEER PROMPTLY OF ANY CONFLICT BETWEEN THE APPROVED PLANS AND THE LOCATION OF ANY EXISTING UTILITIES.
- THE CONTRACTOR SHALL PROTECT ALL PRIVATE AND PUBLIC UTILITIES FROM DAMAGE RESULTING FROM THE WORK. CONTRACTOR SHALL RESTORE ALL PRIVATE AND PUBLIC PROPERTY DISRUPTED BY THE PROJECT IMMEDIATELY AFTER CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EROSION CONTROL MEASURES THROUGHOUT THE DURATION OF THE PROJECT. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY CLEARING OR GRADING IN CONFORMANCE WITH THE EROSION & SEDIMENTATION CONTROL PLAN AND THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP). THE SWPPP SHALL BE ON-SITE AT ALL TIMES DURING CONSTRUCTION ACTIVITIES.
- SITE CLEARING SHALL INCLUDE THE LOCATION AND REMOVAL OF ALL ABOVE GROUND AND BURIED DEBRIS AND WASTE THAT MAY BE PRESENT.
- THE CONTRACTOR SHALL OBTAIN REVOCABLE ENCROACHMENT PERMITS FROM THE CITY OF FERNDALE AND/OR WHATCOM COUNTY PRIOR TO COMMENCING WORK WITHIN THE PUBLIC RIGHT-OF-WAY.
- THE CONTRACTOR SHALL ATTEND A PRE-CONSTRUCTION MEETING WITH REPRESENTATIVES OF THE CITY OF FERNDALE PUBLIC WORKS DEPARTMENT AND THE CITY ENGINEER A MINIMUM OF THREE (3) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. THE CITY WILL SCHEDULE THE MEETING.
- ALL WORK AND MATERIALS SHALL BE SUBJECT TO APPROVAL BY THE CITY OF FERNDALE PUBLIC WORKS DEPARTMENT. REPRESENTATIVES FROM THE CITY OF FERNDALE PUBLIC WORKS DEPARTMENT MUST INSPECT ALL WORK IDENTIFIED ON THE PLANS, BOTH PUBLIC AND PRIVATE. THE CONTRACTOR SHALL CALL AT LEAST 24 HOURS IN ADVANCE TO SCHEDULE INSPECTIONS AS FOLLOWS:  
A. PLACEMENT OF TEMPORARY EROSION CONTROL MEASURES.  
B. CONSTRUCTION ROAD OR STORMWATER MANAGEMENT FACILITIES.  
C. PLACEMENT OF WATER MAIN AND BACKFILLING OF WATER MAIN TRENCH WITHIN ROAD RIGHTS OF WAY OR IN WATERLINE EASEMENT TO BE DEDICATED TO THE CITY OF FERNDALE.  
D. PLACING OR BACKFILLING OF UNDERGROUND UTILITIES, STORM SEWER AND SANITARY SEWER WITHIN ROAD RIGHTS-OF-WAY. IN EASEMENTS TO BE DEDICATED TO THE CITY OF FERNDALE, OR OTHER PUBLICLY SHARED FACILITIES.  
E. GRADING OF PUBLIC OR PRIVATE ROADWAY AT:  
1. COMPLETION OF EXCAVATION TO SUBGRADE  
2. COMPLETION OF BALLAST COURSE PLACEMENT  
3. COMPLETION OF CRUSHED SURFACING COURSE PLACEMENT  
F. POURING OF CURB AND GUTTER AND SIDEWALK IN PUBLIC ROADWAY.  
G. ASPHALT PAVING IN PROGRESS IN PUBLIC ROADWAY.  
H. OVERALL INSPECTION FOR FINISHED SHOULDERS, DITCHES, PERMANENT SEEDING AND MONUMENT PLACEMENT.  
I. END OF MAINTENANCE PERIOD
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SAFEGUARDS, SAFETY DEVICES, PROTECTIVE EQUIPMENT FLAGGERS, AND ANY OTHER NEEDED ACTIONS TO PROTECT THE LIFE, HEALTH AND SAFETY OF THE PUBLIC, AND TO PROTECT PRIVATE & PUBLIC PROPERTY IN CONNECTION WITH THE PERFORMANCE AND WORK BY THE CONTRACTOR. ANY WORK WITHIN THE TRAVELED RIGHT-OF-WAY SHALL BE FLAGGED BY THE CONTRACTOR. TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO THE CITY FOR APPROVAL PRIOR TO PERFORMING THE WORK. ALL SECTIONS OF THE WSQST STANDARD SPECIFICATIONS 1-07.23- TRAFFIC CONTROL, SHALL APPLY. THE CONTRACTOR SHALL INFORM THE ENGINEER AND OBTAIN APPROVAL FROM THE CITY OF FERNDALE PUBLIC WORKS DIRECTOR OF ANY PROPOSED DEVIATION FROM THE APPROVED PLANS PRIOR TO CONSTRUCTION OF THE REVISED IMPROVEMENTS. THE CONTRACTOR SHALL KEEP RECORDS OF ALL DEVIATIONS AND SHALL FORWARD THEM TO THE ENGINEER AND TO THE CITY OF FERNDALE PUBLIC WORKS DEPARTMENT.
- AS-BUILT DATA SHALL BE PROVIDED TO THE CITY OF FERNDALE UPON COMPLETION OF CONSTRUCTION AND PROVIDED IN CITY OF FERNDALE DATUM - VERTICAL (NAD 83) AND HORIZONTAL (NAD 83/91). CONTACT THE CITY FOR MORE INFORMATION ON SUBMITTAL REQUIREMENTS.
- POTHOLES ALL EXISTING UTILITIES IS REQUIRED PRIOR TO CONSTRUCTION TO VERIFY DESIGN FEASIBILITY. THE CITY DOES NOT GUARANTEE AS-BUILT INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE FIELD RESPONSIBLE IF FIELD MODIFICATIONS ARE REQUIRED BECAUSE POTHOLES WAS NOT DONE PRIOR TO DESIGN.
- ALL STRUCTURES AND WATERMAIN CONVEYANCE WILL BE STAKED AND LOCATED BY A LICENSED LAND SURVEYOR PROVIDING OFFSET LOCATION AND ELEVATIONS PRIOR TO CONSTRUCTION AND INSPECTION. FAILURE TO DO SO WILL RESULT IN POTENTIAL RE-INSPECTION AND OR PROJECT DELAYS.

**STORMWATER POLLUTION PREVENTION PLAN (SWPPP) ELEMENTS:**

**ELEMENT 1: PRESERVE VEGETATION / MARK CLEARING LIMITS**

CLEARING LIMITS WILL BE VISIBLY MARKED IN THE FIELD AND ON THE CIVIL PLAN SET PRIOR TO ANY LAND DISTURBING ACTIVITIES. THESE AREAS WILL BE CLEARLY MARKED BOTH IN THE FIELD AND ON THE SITE PLANS, TO PREVENT DAMAGE AND OFFSITE IMPACTS.

WASHINGTON STATE DEPARTMENT OF ECOLOGY BMPs CONSIDERED FOR ELEMENT #1 INCLUDE:

- BMP C103: HIGH VISIBILITY PLASTIC OR METAL FENCE
- BMP C104: STAKE AND WIRE FENCE

**ELEMENT 2: ESTABLISH CONSTRUCTION ACCESS**

ONE CONSTRUCTION ENTRANCE FROM THORNTON STREET SHALL BE CONSTRUCTED USING QUARRY SPALLS TO MINIMIZE THE TRACKING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY AND AT THE END OF EACH DAY, SEDIMENT TRANSPORTED TO THE DETENTION POND FROM THE SITE WILL BE SWEEP AND DISPOSED OF AT A CONTROLLED SEDIMENT DISPOSAL AREA ON SITE. IF STREET WASHING IS NEEDED, IT WILL ONLY OCCUR AFTER SEDIMENT HAS BEEN REMOVED AS DESCRIBED. THE RESULTING WASH WASTEWATER WOULD THEN BE DISPOSED OF AT AN APPROVED SITE.

ALL CONSTRUCTION ACCESS POINTS WILL BE RESTORED TO PRE-CONSTRUCTION CONDITION.

WASHINGTON STATE DEPARTMENT OF ECOLOGY BMPs CONSIDERED FOR ELEMENT #2 INCLUDE:

- BMP C105: STABILIZED CONSTRUCTION ENTRANCE
- BMP C107: CONSTRUCTION ROAD/PARKING AREA STABILIZATION

**ELEMENT 3: CONTROL FLOW RATES**

STORMWATER BMPs WILL BE INSTALLED AS A FIRST STEP IN CONSTRUCTION AND WILL BE FUNCTIONAL PRIOR TO CONSTRUCTION OF THE SEDIMENTATION POND. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, CONSTRUCTION, AND MAINTENANCE OF FLOW CONTROL. THE ON-SITE OPEN TOP COMBINED DETENTION/RETAINMENT WILL BE CONSTRUCTED IMMEDIATELY AFTER CURB AND GUTTER, PAVING, AND FLOW TO INITIAL SITE GRADING, TO PROVIDE FLOW CONTROL DURING CONSTRUCTION. SEDIMENT SHALL BE CONTROLLED PRIOR TO DISCHARGE INTO THE DETENTION POND TO THE MAXIMUM EXTENT FEASIBLE. THIS MAY INCLUDE USING SEDIMENT TRAP, TEMPORARY SEDIMENT POND, SEDIMENTATION BAG, OR BAKER TANKS. IN EMERGENCY CIRCUMSTANCES, SUCH AS A SIGNIFICANT RAIN EVENT, THE VAULT MAY BE USED AS SEDIMENT POND. ANY SEDIMENT THAT ACCUMULATES IN THE PROPOSED VAULT SHALL BE REMOVED PRIOR TO PROJECT COMPLETION.

THE CONTRACTOR SHALL PROTECT PROPERTIES AND WATERWAYS DOWNSTREAM OF PROJECT SITE FROM EROSION AND THE ASSOCIATED DISCHARGE OF TURBID WATER DUE TO INCREASES IN THE RATE OF STORMWATER RUNOFF. IF THE CONTRACTOR OR IF APPLICABLE, THE CERTIFIED PROFESSIONAL ENGINEER IDENTIFIES METHODS THAT TEMPORARY WATER STORAGE IS REQUIRED BEYOND WHAT IS BEING PROPOSED, THEY SHALL CONTACT THE ENGINEER OF RECORD (EOR) TO IDENTIFY AND LOCATE A STORAGE SOLUTION.

**ELEMENT 4: INSTALL SEDIMENT CONTROLS**

THE CONTRACTOR SHALL MINIMIZE SEDIMENT DISCHARGE FROM THE SITE THROUGHOUT THE DURATION OF THE PROJECT. THIS INCLUDES PROPER MAINTENANCE OF THE CONSTRUCTION SITE, PAVING/STORAGE AREA, AND ROAD WORK THROUGH BMP C107. ALL TESC BMPs SHALL BE INSPECTED DAILY BY THE CONTRACTOR OR BY THE INSPECTOR BY THE CESCL, IF APPLICABLE.

SEDIMENT SHALL BE CONTROLLED PRIOR TO DISCHARGE INTO THE OPEN TOP COMBINED DETENTION/RETAINMENT. THIS MAY INCLUDE USING SEDIMENT TRAP, TEMPORARY SEDIMENT POND, SEDIMENTATION BAG, OR BAKER TANKS. IN EMERGENCY CIRCUMSTANCES, SUCH AS A SIGNIFICANT RAIN EVENT, THE VAULT MAY BE USED AS SEDIMENT POND. ANY SEDIMENT THAT ACCUMULATES IN THE PROPOSED VAULT SHALL BE REMOVED PRIOR TO PROJECT COMPLETION.

PROPOSED SILT FENCING WILL BE INSTALLED PRIOR TO LAND DISTURBANCES OR PROJECT GRADING. INLET PROTECTION IN EXISTING AND PROPOSED CATCH BASINS WITHIN THE VICINITY WILL BE UTILIZED TO HELP PREVENT SEDIMENT FROM ENTERING THE TRIBUTARY WATERS. IF THE CONTRACTOR WOULD LIKE TO USE ANOTHER SEDIMENT CONTROL BMP, THEY SHALL SUBMIT TO THE EOR AND CITY OF FERNDALE THE SEDIMENT CONTROL BMP FOR APPROVAL.

OTHER SEDIMENT CONTROL MEASURES THAT MAY BE IMPLEMENTED ON SITE INCLUDE:

- CONSTRUCTION OF GRAVEL FILTER BERMS (BMP C232) TO RETAIN SEDIMENT FROM RIGHTS-OF-WAYS OR CONSTRUCTION TRAFFIC

- AREAS, IF APPLICABLE.
- SILT FENCES WILL BE USED TO CONTROL TRANSPORT OF COARSE SEDIMENT FROM THE SITE. INSTALLATION OF SEDIMENT FENCES WILL BE DONE AS OUTLINED IN BMP C232 AND WILL BE USED IN CONJUNCTION WITH OTHER EROSION CONTROL METHODS, IF NEEDED.
  - VEGETATED STRIPS WILL BE USED WHERE APPROPRIATE. VEGETATED STRIPS ARE USED AS AN EROSION CONTROL MEASURE, THEY WILL BE IMPLEMENTED AS OUTLINED IN BMP C232.
  - STRAW WATTLES MAY ALSO BE CONSIDERED AS PART OF THE EROSION CONTROL MEASURES FOR THIS SITE. IF STRAW WATTLES ARE INSTALLED, THEY WILL BE DONE AS OUTLINED IN BMP C232.

**ELEMENT 5: STABILIZE SOILS**

IF CONSTRUCTION OCCURS WITHIN THE DESIGNATED (12/1 THROUGH 4/30) SOILS WILL NOT REMAIN EXPOSED AND UNWORKED FOR MORE THAN 2 DAYS. IF CONSTRUCTION OCCURS WITHIN THE DESIGNATED (5/1 THROUGH 9/30) SOILS WILL NOT REMAIN EXPOSED AND UNWORKED FOR MORE THAN 7 DAYS. WHERE CONSTRUCTION IS IN PROGRESS, THE DEADLINE FOR SOIL STABILIZATION MAY BE EXTENDED UPON DETERMINING THAT THE LIKELIHOOD OF EROSION IMPACTS IS LOW BASED ON THE TYPE AND AMOUNT OF SOIL EXPOSED, SITE TOPOGRAPHY, TO CENTRAL FOR DISCHARGE TO CRITICAL AREAS AND LAKES, AND OTHER FACTORS. IN ADDITION, WEATHER CONDITIONS WILL CONTINUALLY BE MONITORED. BEFORE LONGGAYS AND WEEKENDS FOR PURPOSES OF PREPARING THE SITE FOR PREDICTED WEATHER CONDITIONS MAY RESULT IN A PRECIPITATION EVENT PRIOR TO THE REPAIR BEING COMPLETED, THE REPAIR AREA, WHICH INCLUDES THE VEHICLE, WILL BE COVERED WITH TAPPS OR OTHER PLASTIC SHEETING.

DISCHARGES, SPILLS, OR LEAKS WILL BE CLEANED IMMEDIATELY. THE NOTIFICATION PROCEDURE OUTLINED IN THE PERMANENT SITE SWPPP IS AS FOLLOWS:

NOTIFY KEY PERSONNEL - DURING CONSTRUCTION, THE CESCL (IF APPLICABLE) AND CONTRACTOR WILL BE PROVIDING PROJECT OVERSIGHT AND WILL BE CONTACT THE ENGINEER OF RECORD IN THE EVENT OF A SPILL. THE ENGINEER OF RECORD WILL CONTACT THE SITE OWNER AND THE DEPARTMENT OF ECOLOGY. ANY SPILLS WITH POTENTIAL TO DISCHARGE TO STORM DRAINS, SANITARY SEWER SYSTEM, OR SURFACE WATERS WILL BE REPORTED TO CITY OF FERNDALE.

WASHINGTON STATE DEPARTMENT OF ECOLOGY BMPs CONSIDERED FOR ELEMENT #5 INCLUDE:

- BMP C120: TEMPORARY AND PERMANENT SEEDING
- BMP C121: MULCHING
- BMP C122: NETS AND BLANKETS
- BMP C123: PLASTIC COVERING
- BMP C124: SOODING
- BMP C125: TOP SOILING
- BMP C130: SURFACE ROUGHENING
- BMP C131: GRADIENT TERRACES
- BMP C140: DUST CONTROL

**ELEMENT 6: PROTECT SLOPES**

NO MAJOR SLOPES ARE TO BE DISTURBED OR CREATED AS PART OF THIS PROJECT.

**ELEMENT 7: PROTECT DRAIN INLETS**

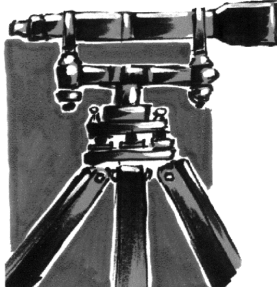
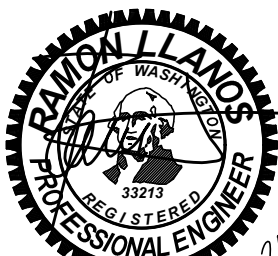
NEW DRAIN INLETS WILL BE CONSTRUCTED AS PART OF THIS PROJECT. NEW DRAIN INLETS WILL RECEIVE BMP 220. EXISTING DRAIN INLETS IMMEDIATELY DOWNGRADE OF THE PROJECT SITE WILL ALSO RECEIVE BMP 220. REFER TO SHEET 5 FOR INLET PROTECTION LOCATIONS. APPLICABLE BMPs:

- BMP C220 - STORM DRAIN INLET PROTECTION

**ELEMENT 8: STABILIZE CHANNELS AND OUTLETS**

WHILE NOT ENVISIONED FOR THE PROJECT, IF TEMPORARY ON-SITE CONVEYANCE CHANNELS ARE NECESSARY, THEY WILL BE DESIGNED, CONSTRUCTED, AND STABILIZED TO PREVENT EROSION FROM THE EXPECTED FLOW RATE FROM A TYPE1A, TO YEAR, 24-HOUR FREQUENCY STORM EVENT. BMP C202: CHANNEL LINING WILL BE USED TO DETERMINE THE MOST EFFECTIVE CHANNEL DESIGN FOR THE SITE (I.E.

**LD&S, INC.**  
**5160 INDUSTRIAL PL. #108**  
**FERNDAL, WA 98248**  
**PHONE 360-383-0620**  
**FAX 360-383-0639**



PROJECT #:	2196
DATE:	3/19/2025
DESIGNED BY:	RL
DRAWN BY:	JRF
CHECKED BY:	RL

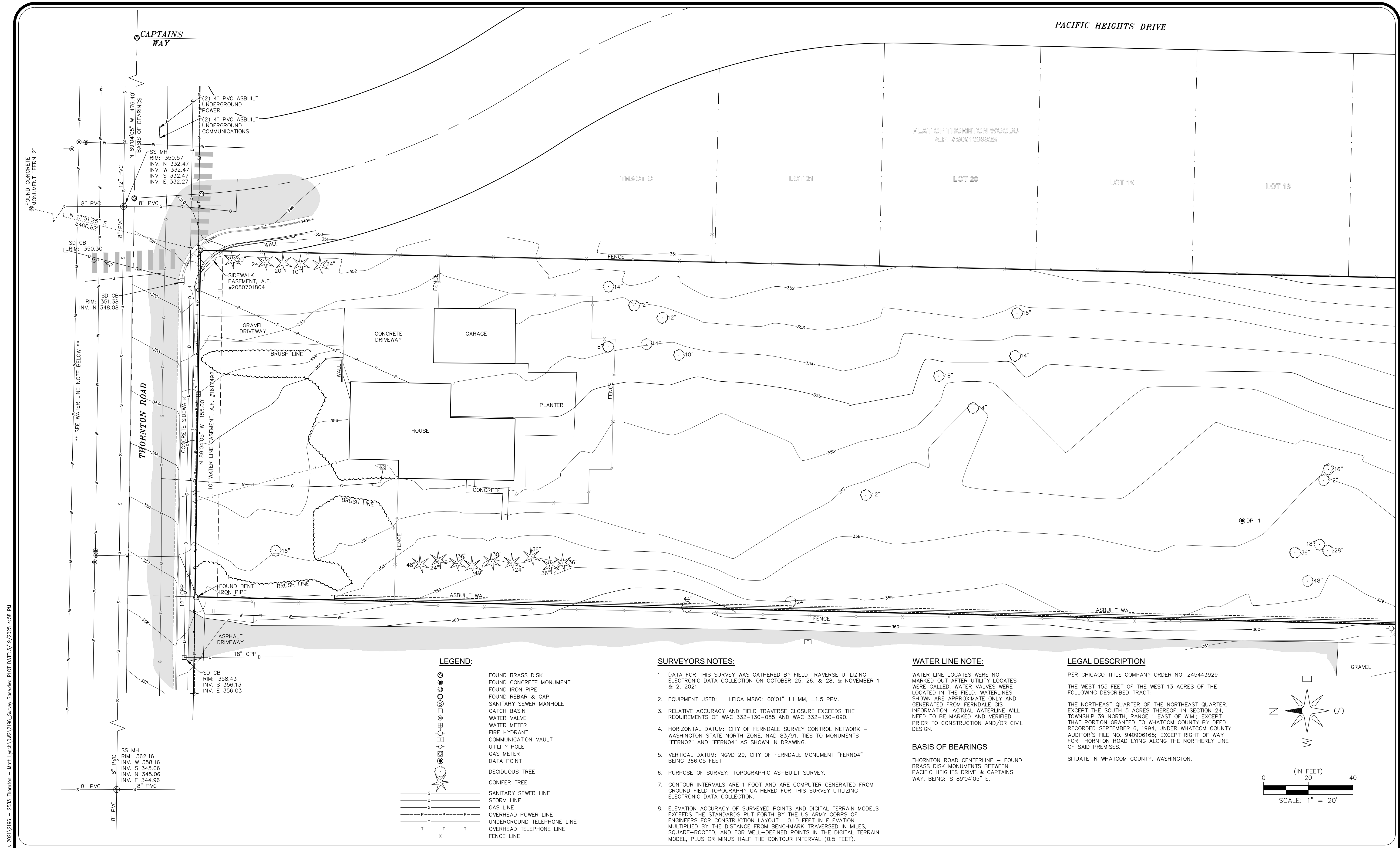
**MATTHEW**  
**LYNCH**

**6249 CHURCH RD**  
**FERNDAL, WA 98248**

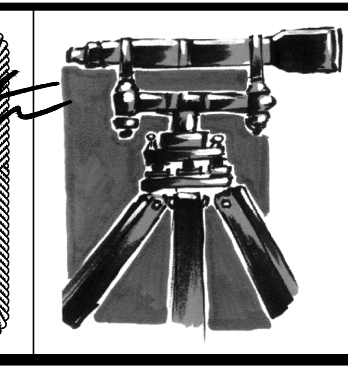


**CITY OF FERNDALE NOTES**  
**STORMWATER POLLUTION PREVENTION PLAN**  
**THORNTON HEIGHTS**  
**AF 390124-416472-0000 - 2593 THORNTON ST, FERNDALE, WASHINGTON**  
**A PORTION OF THE NE 1/4 OF THE NE 1/4 OF SECTION 24, TOWNSHIP 39**





NO.	REVISION	BY	DATE
1			
2			
3			
4			



**LDES, INC.**  
5160 INDUSTRIAL PL. #108  
FERNDALE, WA 98248  
PHONE 360-383-0620  
FAX 360-383-0639

PROJECT #: 2196  
DATE: 1/23/2025  
DESIGNED BY: -  
DRAWN BY: SLG  
CHECKED BY: RDP

**RUBICON IDC, LLC**

P.O. BOX 1065  
FERNDALE, WA 98248

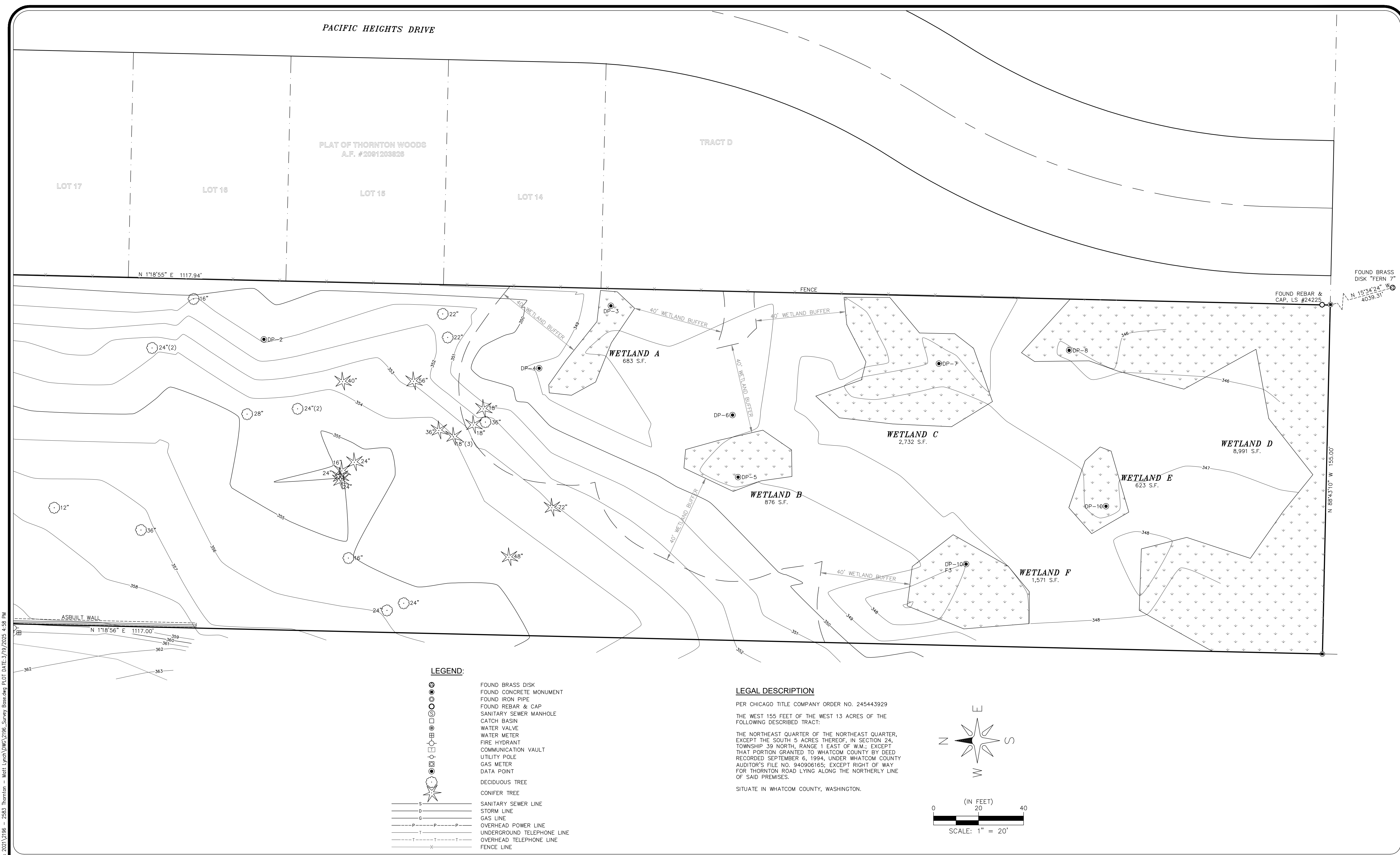


**EXISTING CONDITIONS**  
**2583 THORNTON ROAD**

A PORTION OF THE NE 1/4 OF THE NE 1/4 OF SECTION 24, TOWNSHIP 39 N., RANGE 1 E., W.M. WHATCOM COUNTY, WASHINGTON

SHEET  
**03**  
OF 17





LEGEND:

- FOUND BRASS DISK
- FOUND CONCRETE MONUMENT
- FOUND IRON PIPE
- FOUND REBAR & CAP
- SANITARY SEWER MANHOLE
- CATCH BASIN
- WATER VALVE
- WATER METER
- FIRE HYDRANT
- COMMUNICATION VAULT
- UTILITY POLE
- GAS METER
- DATA POINT
- DECIDUOUS TREE
- CONIFER TREE
- SANITARY SEWER LINE
- STORM LINE
- GAS LINE
- OVERHEAD POWER LINE
- UNDERGROUND TELEPHONE LINE
- OVERHEAD TELEPHONE LINE
- FENCE LINE

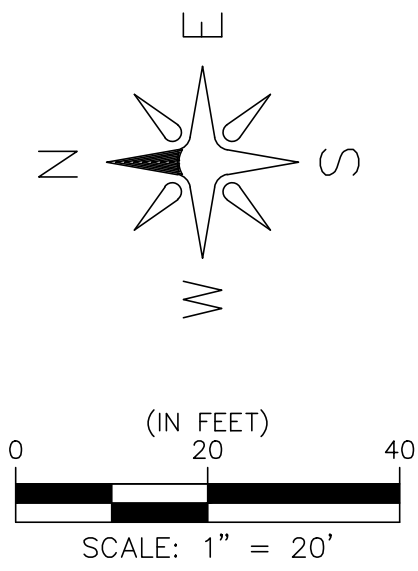
LEGAL DESCRIPTION

PER CHICAGO TITLE COMPANY ORDER NO. 245443929

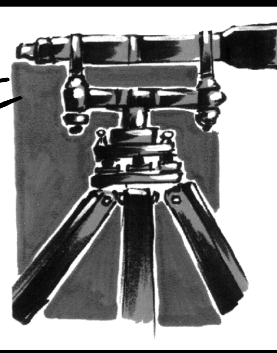
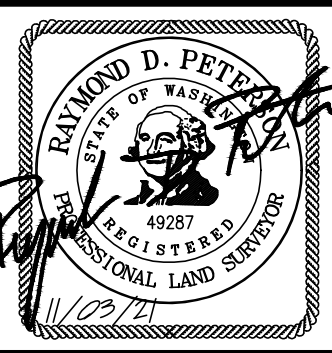
THE WEST 155 FEET OF THE WEST 13 ACRES OF THE FOLLOWING DESCRIBED TRACT:

THE NORTHEAST QUARTER OF THE NORTHEAST QUARTER, EXCEPT THE SOUTH 5 ACRES THEREOF, IN SECTION 24, TOWNSHIP 39 NORTH, RANGE 1 EAST OF W.M.; EXCEPT THAT PORTION GRANTED TO WHATCOM COUNTY BY DEED RECORDED SEPTEMBER 6, 1994, UNDER WHATCOM COUNTY AUDITOR'S FILE NO. 940906165; EXCEPT RIGHT OF WAY FOR THORNTON ROAD LYING ALONG THE NORTHERLY LINE OF SAID PREMISES.

SITUATE IN WHATCOM COUNTY, WASHINGTON.



NO.	REVISION	BY	DATE
1			
2			
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4			



**LDES, INC.**  
**5160 INDUSTRIAL PL. #108**  
**FERNDAL, WA 98248**  
**PHONE 360-383-0620**  
**FAX 360-383-0639**

PROJECT #:	2196
DATE:	1/23/2025
DESIGNED BY:	—
DRAWN BY:	SLG
CHECKED BY:	RDP

**RUBICON IDC, LLC**

P.O. BOX 1065  
FERNDAL, WA 98248



**EXISTING CONDITIONS**

**2583 THORNTON ROAD**

A PORTION OF THE NE 1/4 OF THE NE 1/4 OF  
SECTION 24, TOWNSHIP 39 N., RANGE 1 E., W.M.  
WHATCOM COUNTY, WASHINGTON

SHEET

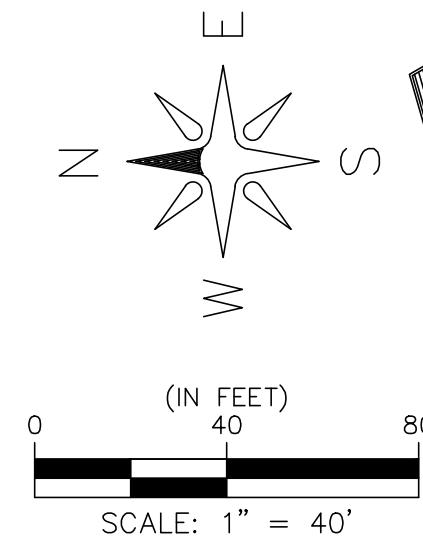
**04**

OF

**17**



R:\Common\Land Projects 2021\2196 - 2593 Thornton - Matt Lynch\DWG\2196\_Civil\_A5-Initial.dwg PLOT DATE: 3/19/2025 4:55 PM

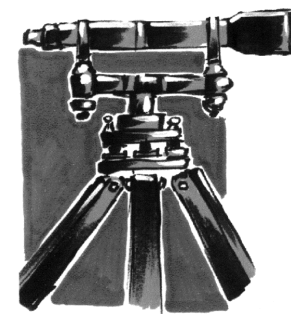


PROJECT SUMMARY	
OWNER	MATTHEW LYNCH 6249 CHURCH RD FERNDAL, WA 98248
SITE ADDRESS	2593 THORNTON ST
PARCEL NO.	390124 416472 0000
SITE AREA	173,205 SF (3.98 ACRES)
CITY ZONING	RS LOW-SINGLE FAMILY DWELLING
PROJECT DESCRIPTION	-10 LOT SUBDIVISION -PROVIDE STORM, SEWER, WATER & DRY UTILITIES -PAVED ACCESS ROAD W/ CONCRETE SIDEWALK -STORMWATER FACILITIES

PLAT INFORMATION		
	ACRES & SQUARE FOOTAGE	PERCENTAGE
OVERALL PARCEL AREA	3.98 ACRES (173,205 SF)	100.00%
PUBLIC ROADS ESMT	0.71 ACRES (30,795 SF)	17.78%
TOTAL LOT AREA (*)	2.01 ACRES (87,726 SF)	50.65%
STORMWATER ESMT	0.15 ACRES (6,353 SF)	3.67%
WETLAND & BUFFER	1.11 ACRES (48,330 SF)	27.90%
OPEN SPACE	NONE	NA
RESERVE TRACT	NONE	NA
OTHER:	NONE	NA

(\*) EXCLUDES EASEMENTS NEEDED FOR POWER, GAS, PHONE, CABLE, INTERNET AND STORMWATER CONVEYANCE FOR LOTS GOING TO THE STORMWATER VAULT.

NO.	REVISION	BY	DATE



**LD&S, INC.**  
5160 INDUSTRIAL PL. #108  
FERNDAL, WA 98248  
PHONE 360-383-0620  
FAX 360-383-0639

PROJECT #:	2196
DATE:	3/19/2025
DESIGNED BY:	RL
DRAWN BY:	JRF
CHECKED BY:	RL

**MATTHEW LYNCH**

6249 CHURCH RD  
FERNDAL, WA 98248



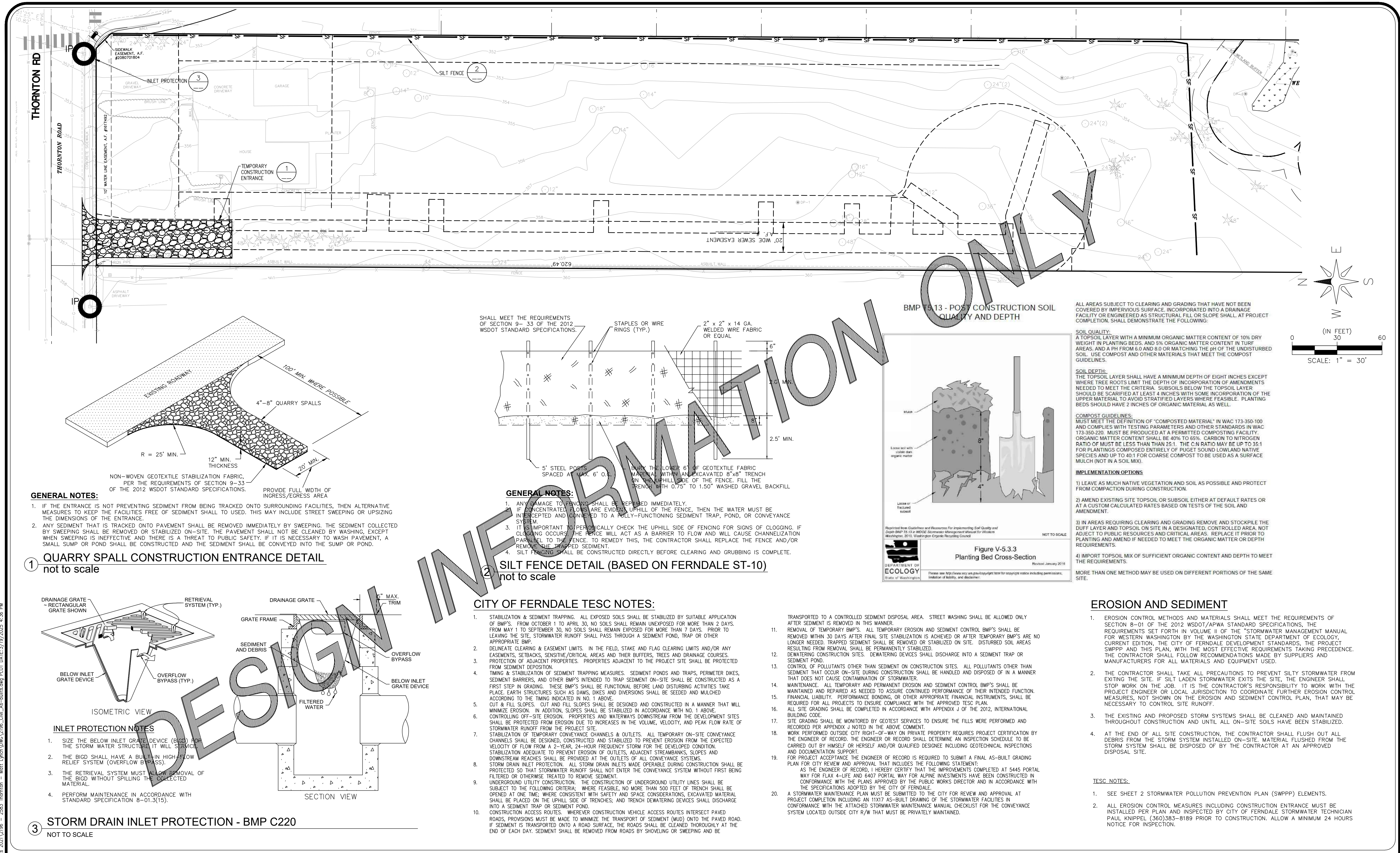
**PRELIMINARY LONG PLAT**

**THORNTON HEIGHTS**  
AF 390124-416472-0000 - 2593 THORNTON ST, FERNDAL, WASHINGTON  
A PORTION OF THE NE 1/4 OF THE NE 1/4 OF SECTION 24, TOWNSHIP 39 N., RANGE 1 E., W.M.

SHEET  
**5**  
OF  
**18**

RECORD DRAWINGS





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NO.	REVISION	BY	DATE
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**LDES, INC.**  
5160 INDUSTRIAL PL. #108  
FERNDAL, WA 98248  
PHONE 360-383-0620  
FAX 360-383-0639

PROJECT #:	2196
DATE:	3/19/2025
DESIGNED BY:	RL
DRAWN BY:	JRF
CHECKED BY:	RL

**MATTHEW LYNCH**

6249 CHURCH RD  
FERNDAL, WA 98248

**APPROVED**  
03/20/2025

BY: *[Signature]*  
CITY OF FERNDAL  
PUBLIC WORKS DEPARTMENT

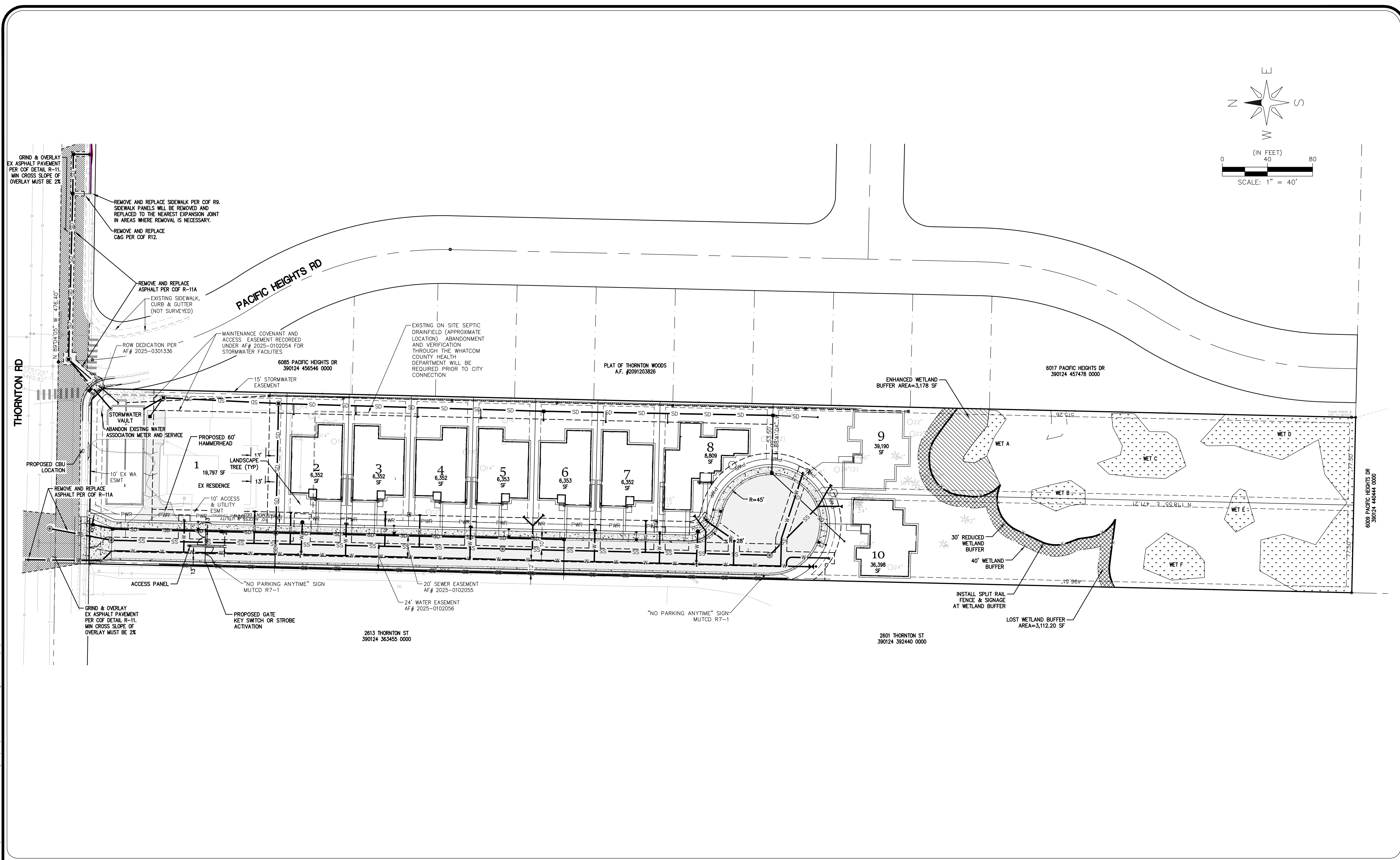
**TEMPORARY EROSION & SEDIMENTATION CONTROL PLAN**

THORNTON HEIGHTS

AF 390124-416472-0000 - 2593 THORNTON ST, FERNDAL, WASHINGTON  
A PORTION OF THE NE 1/4 OF THE NE 1/4 OF SECTION 24, TOWNSHIP 39 N., RANGE 1 E., W.M.

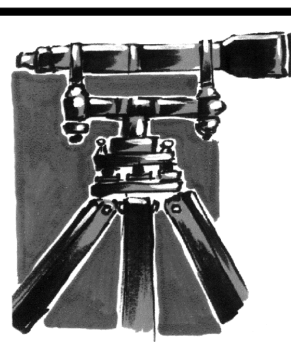
SHEET  
**6**  
OF  
18





R:\Common\Land Projects 2021\0196 - 2583 Thornton - Matt Lynch\DWG\0196\_Civil\_As-Built.dwg PLOT DATE: 3/19/2025 4:37 PM

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**LD&S, INC.**  
5160 INDUSTRIAL PL. #108  
FERNDAL, WA 98248  
PHONE 360-383-0620  
FAX 360-383-0639

PROJECT #:	2196
DATE:	3/19/2025
DESIGNED BY:	RL
DRAWN BY:	JRF
CHECKED BY:	RL

**MATTHEW LYNCH**  
  
6249 CHURCH RD  
FERNDAL, WA 98248

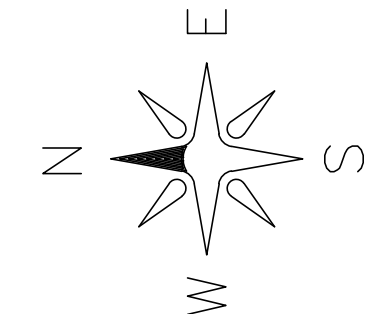


**COMPOSITE UTILITY PLAN**  
  
**THORNTON HEIGHTS**  
AF 390124-416472-0000 - 2583 THORNTON ST, FERNDAL, WASHINGTON  
A PORTION OF THE NE 1/4 OF THE NE 1/4 OF SECTION 24, TOWNSHIP39 N., RANGE 1 E., W.M.

SHEET  
**7**  
OF  
**18**

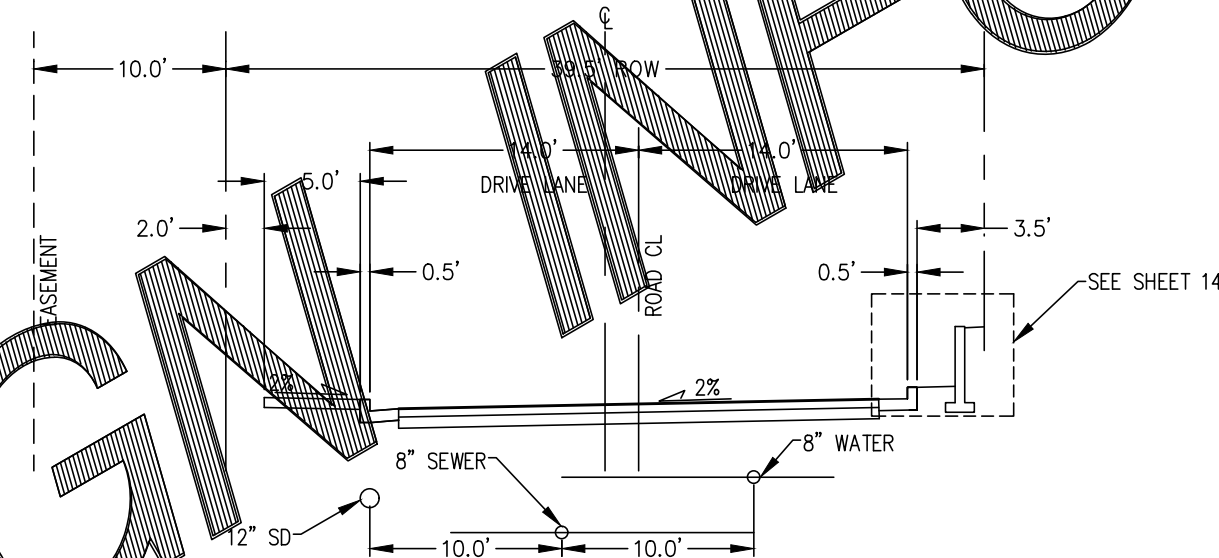
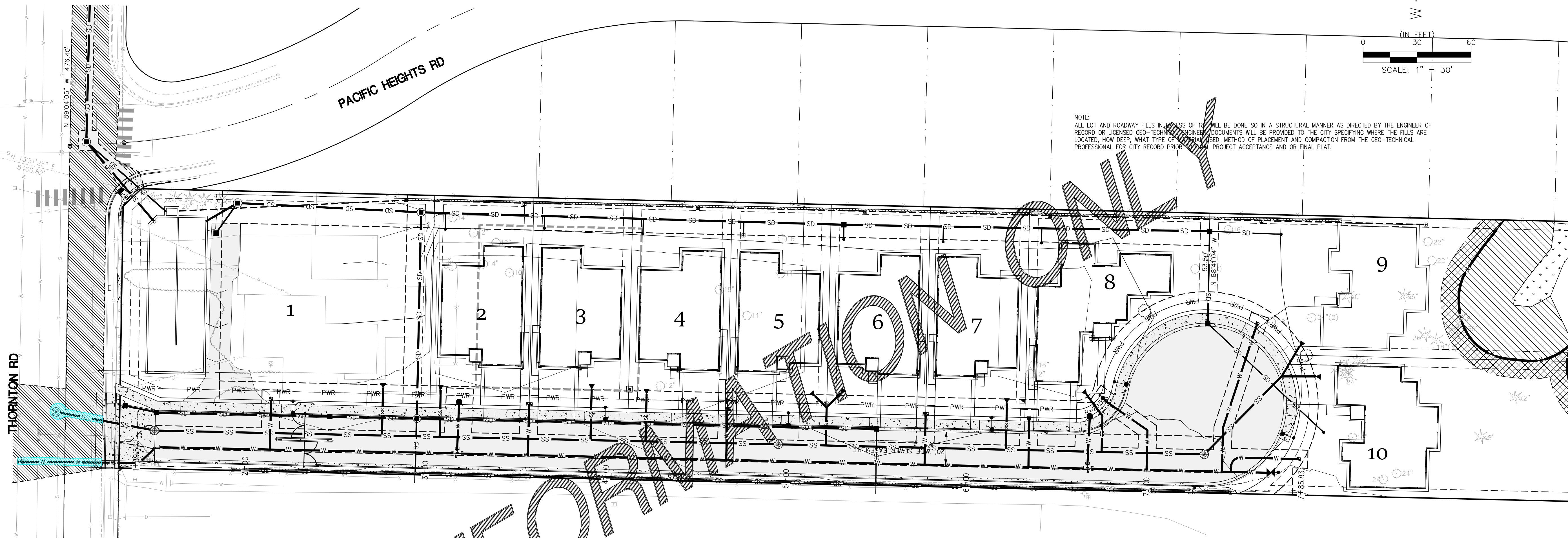


- RETAINING WALL NOTES
1. CONSTRUCTION OF THE CONCRETE RETAINING WALL REQUIRES A COF BUILDING PERMIT.
  2. THE STRUCTURAL DESIGN AND CALCULATIONS FOR THE CONCRETE RETAINING WALL MUST BE APPROVED BY THE COF BUILDING DEPARTMENT AND THE LAND DISTURBANCE PERMIT ISSUED BY PUBLIC WORKS FOR THE VAULT CONSTRUCTION TO BEGIN.
  3. INTERNATIONAL BUILDING CODE APPENDIX J REQUIREMENTS APPLY.

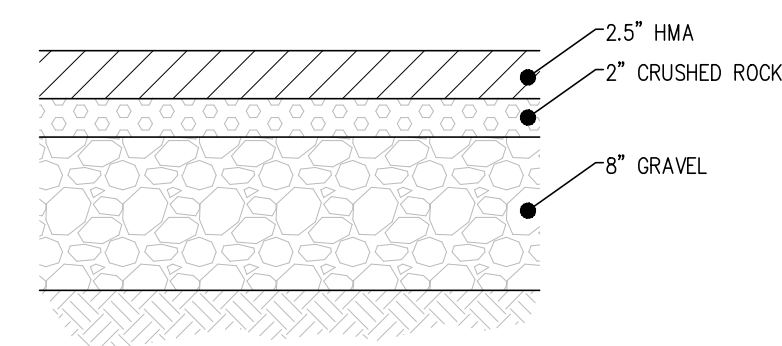


(IN FEET)  
0 30 60  
SCALE: 1" = 30'

NOTE:  
ALL LOT AND ROADWAY FILLS IN EXCESS OF 12" SHALL BE DONE IN A STRUCTURAL MANNER AS DIRECTED BY THE ENGINEER OF RECORD OR LICENSED GEO-TECHNICAL ENGINEER. DOCUMENTS WILL BE PROVIDED TO THE CITY SPECIFYING WHERE THE FILLS ARE LOCATED, HOW DEEP, WHAT TYPE OF MATERIAL IS USED, METHOD OF PLACEMENT AND COMPACTION FROM THE GEO-TECHNICAL PROFESSIONAL FOR CITY RECORD PRIOR TO PROJECT ACCEPTANCE AND OR FINAL PLAT.

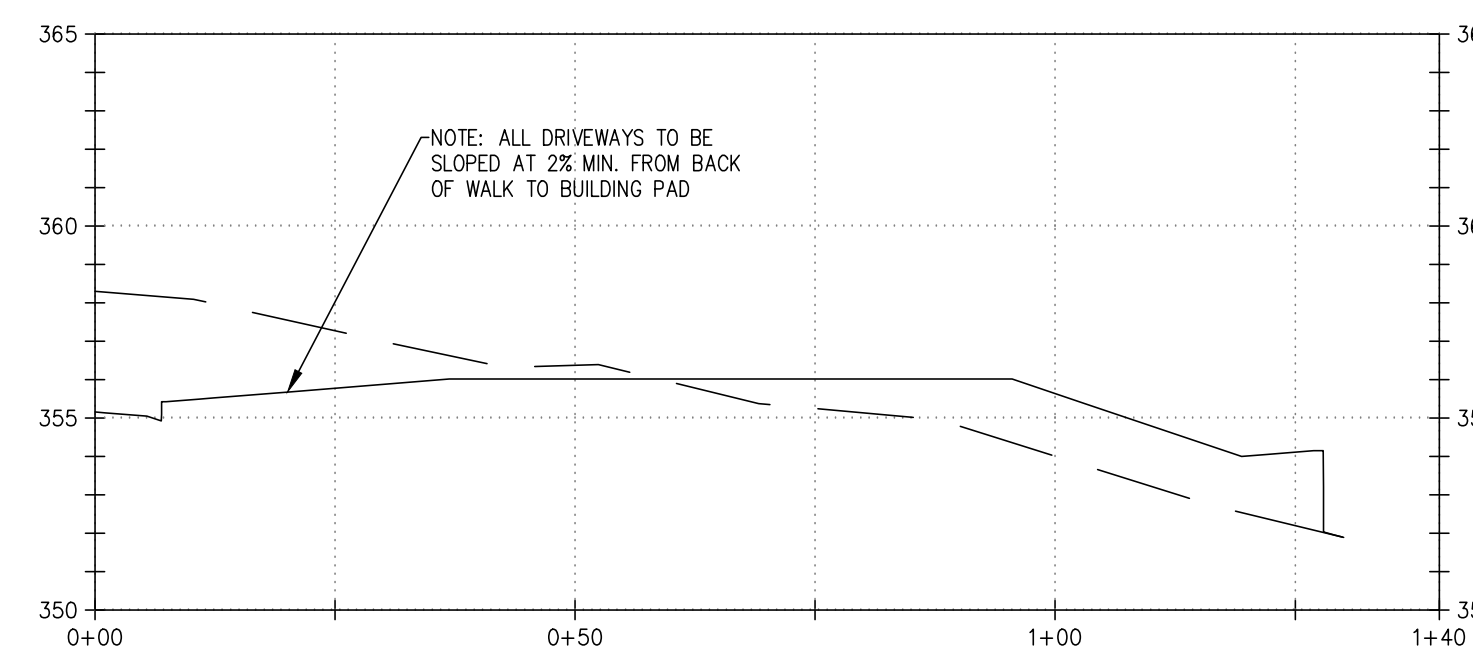


TYPICAL ROAD SECTION  
N.T.S.

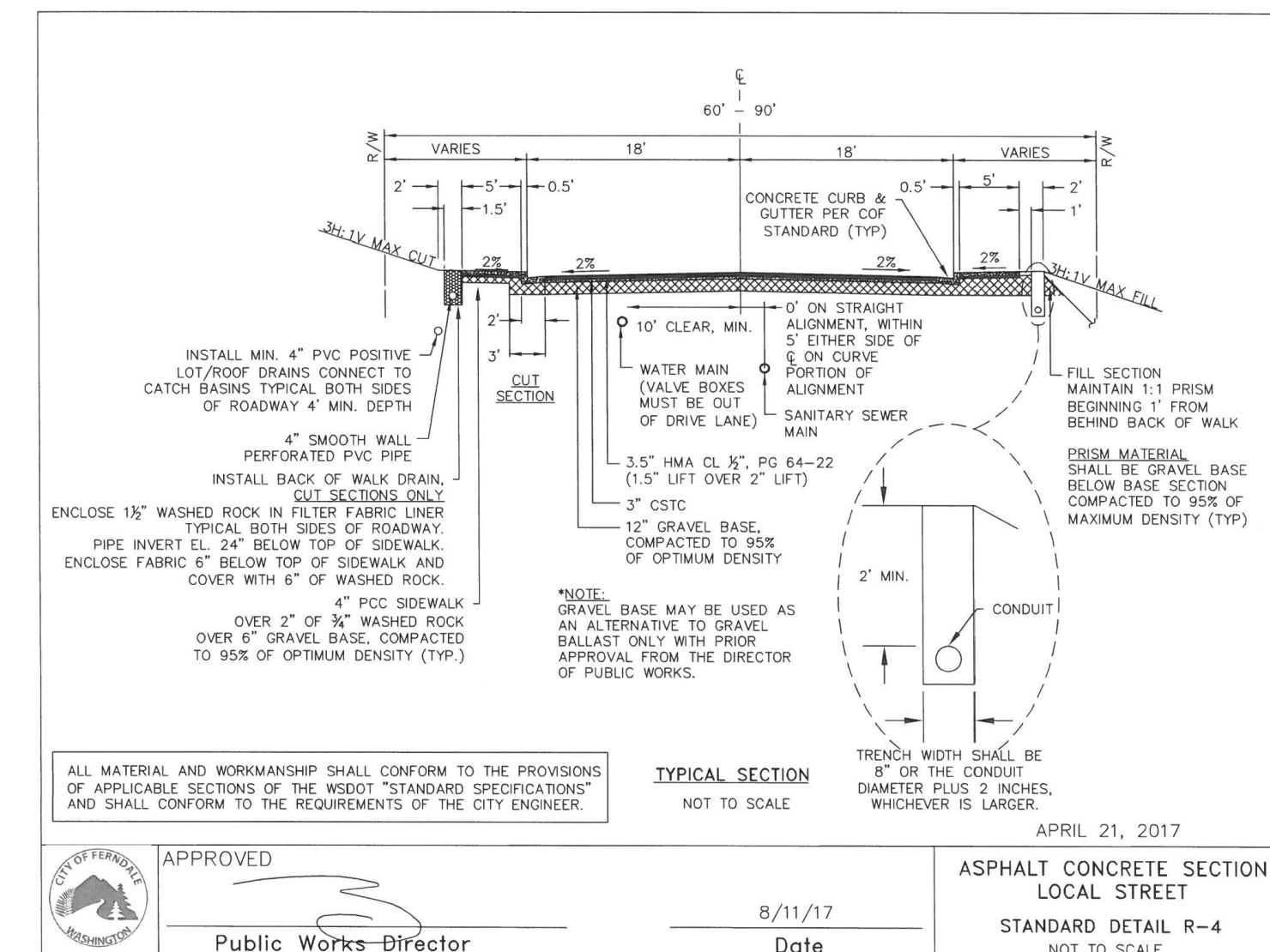


LOT 1 DRIVEWAY SECTION  
N.T.S.

NOTE:  
ALL PROPOSED CAST IN PLACE WALLS ON THE SITE HAVE BEEN REVIEWED BY THE BUILDING DEPARTMENT AND WILL REQUIRE A SEPARATE BUILDING PERMIT PRIOR TO CONSTRUCTION.

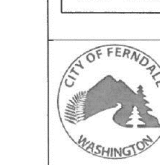


LOT 5 SECTION (TYPICAL LOT GRADING)  
N.T.S.



TYPICAL SECTION  
NOT TO SCALE

ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO THE PROVISIONS OF APPLICABLE SECTIONS OF THE WSDOT "STANDARD SPECIFICATIONS" AND SHALL CONFORM TO THE REQUIREMENTS OF THE CITY ENGINEER.



APPROVED  
Public Works Director  
8/11/17  
Date

APRIL 21, 2017  
ASPHALT CONCRETE SECTION  
LOCAL STREET  
STANDARD DETAIL R-4  
NOT TO SCALE

## GRADING PLAN

### THORNTON HEIGHTS

AF 390124-416472-0000 - 2593 THORNTON ST, FERNDAL, WASHINGTON  
A PORTION OF THE NE 1/4 OF THE NE 1/4 OF SECTION 24, TOWNSHIP 39 N., RANGE 1 E., W.M.

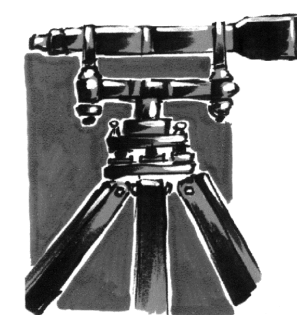
SHEET

8

OF

18

NO.	REVISION	BY	DATE
1			
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LDES, INC.  
5160 INDUSTRIAL PL. #108  
FERNDAL, WA 98248  
PHONE 360-383-0620  
FAX 360-383-0639

PROJECT #:	2196
DATE:	3/19/2025
DESIGNED BY:	RL
DRAWN BY:	JRF
CHECKED BY:	RL

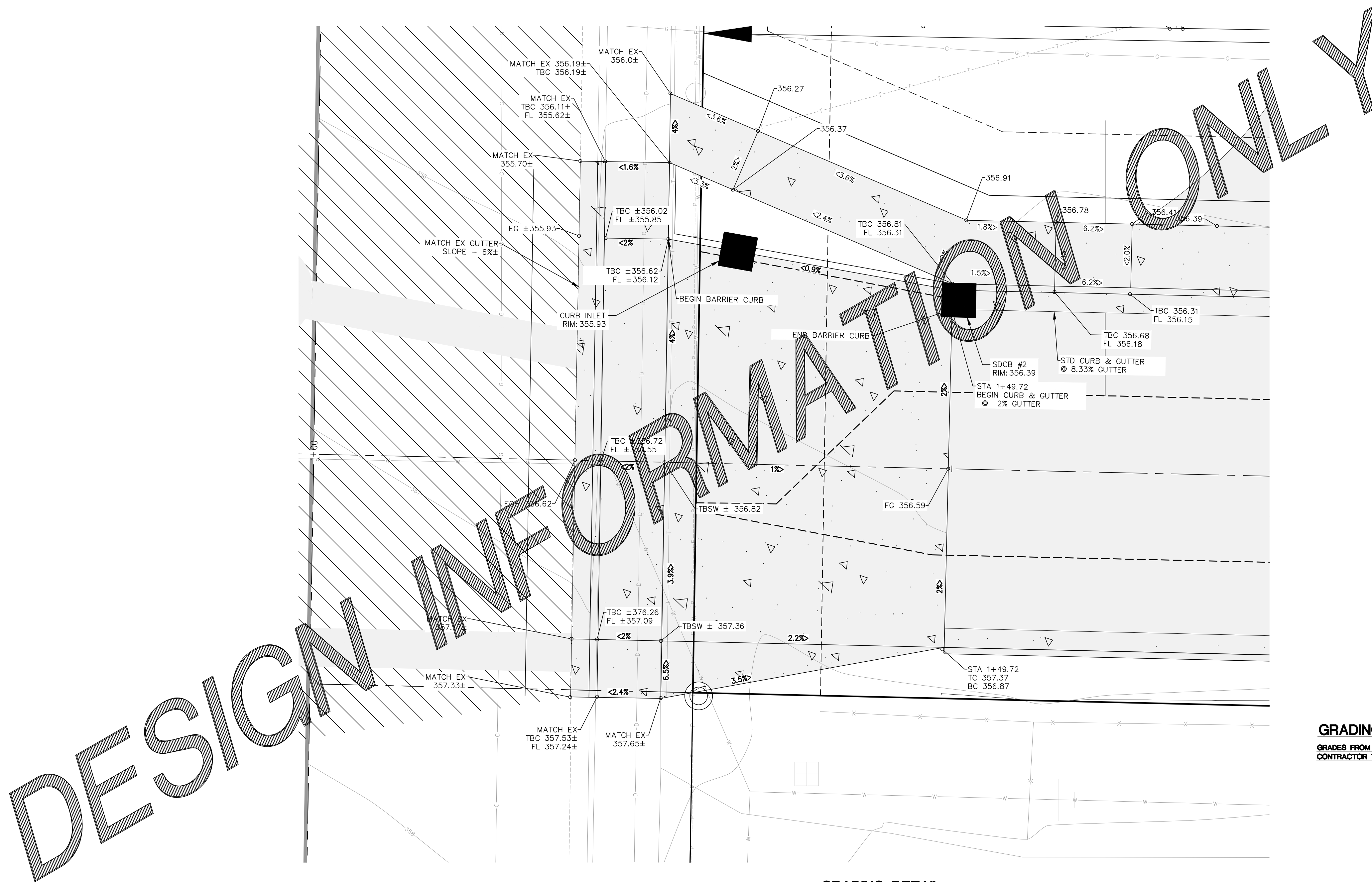
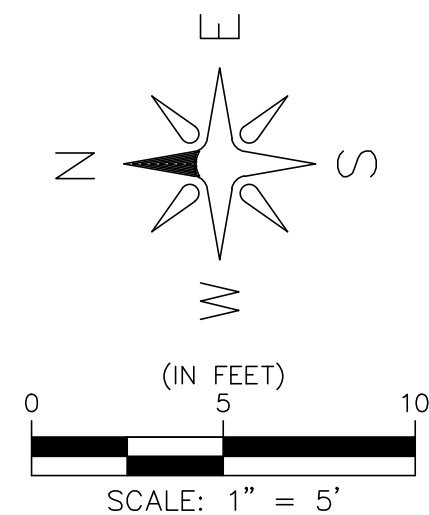
MATTHEW  
LYNCH

6249 CHURCH RD  
FERNDAL, WA 98248

APPROVED  
03/20/2025

BY: *Matthew Lynch*  
CITY OF FERNDAL  
PUBLIC WORKS DEPARTMENT



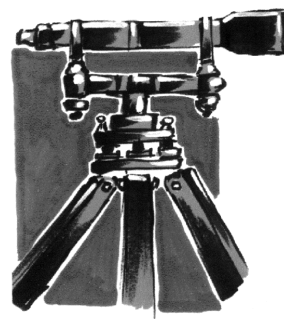


GRADING DETAIL  
SCALE: 1" = 5'

**GRADING NOTE:**  
GRADES FROM THORNTON ROAD NEW BACK OF SIDEWALK AND STA 1+49.72 ARE APPROXIMATE  
CONTRACTOR TO INSTALL THORNTON SIDEWALK CURB INLET RM TO BE ADJUSTED TO ACTUAL GRADES

R:\Common\Land Projects\2021\2196 - 2583 Thornton - Matt Lynch\DWG\2196\_Civil\_Alt-1\1111.dwg PLOT DATE: 3/19/2025 4:38 PM

NO.	REVISION	BY	DATE
1			
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**LD&S, INC.**  
5160 INDUSTRIAL PL. #108  
FERNDAL, WA 98248  
PHONE 360-383-0620  
FAX 360-383-0639

PROJECT #:	2196
DATE:	3/19/2025
DESIGNED BY:	RL
DRAWN BY:	JRF
CHECKED BY:	RL

**MATTHEW LYNCH**

6249 CHURCH RD  
FERNDAL, WA 98248



**ENTRANCE GRADING DETAIL**

**THORNTON HEIGHTS**  
AF 390124-416472-0000 - 2583 THORNTON ST, FERNDAL, WASHINGTON  
A PORTION OF THE NE 1/4 OF THE NE 1/4 OF SECTION 24, TOWNSHIP39 N., RANGE 1 E., W.M.

SHEET  
**8A**  
OF 18

RECORD DRAWINGS



**ADA RAMP GRADING**

**THORNTON HEIGHTS**  
AF 390124-416472-0000 - 2593 THORNTON ST, FERNDAL, WASHINGTON  
A PORTION OF THE NE 1/4 OF THE NE 1/4 OF SECTION 24, TOWNSHIP39 N., RANGE 1 E., W.M.

**APPROVED**  
**03/20/2025**

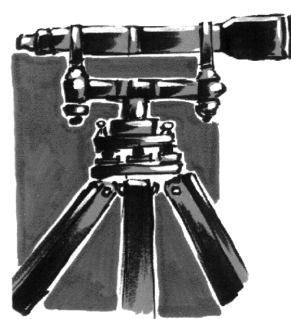
BY *Matthew Lynch*  
CITY OF FERDALE  
PUBLIC WORKS DEPARTMENT

**MATTHEW LYNCH**

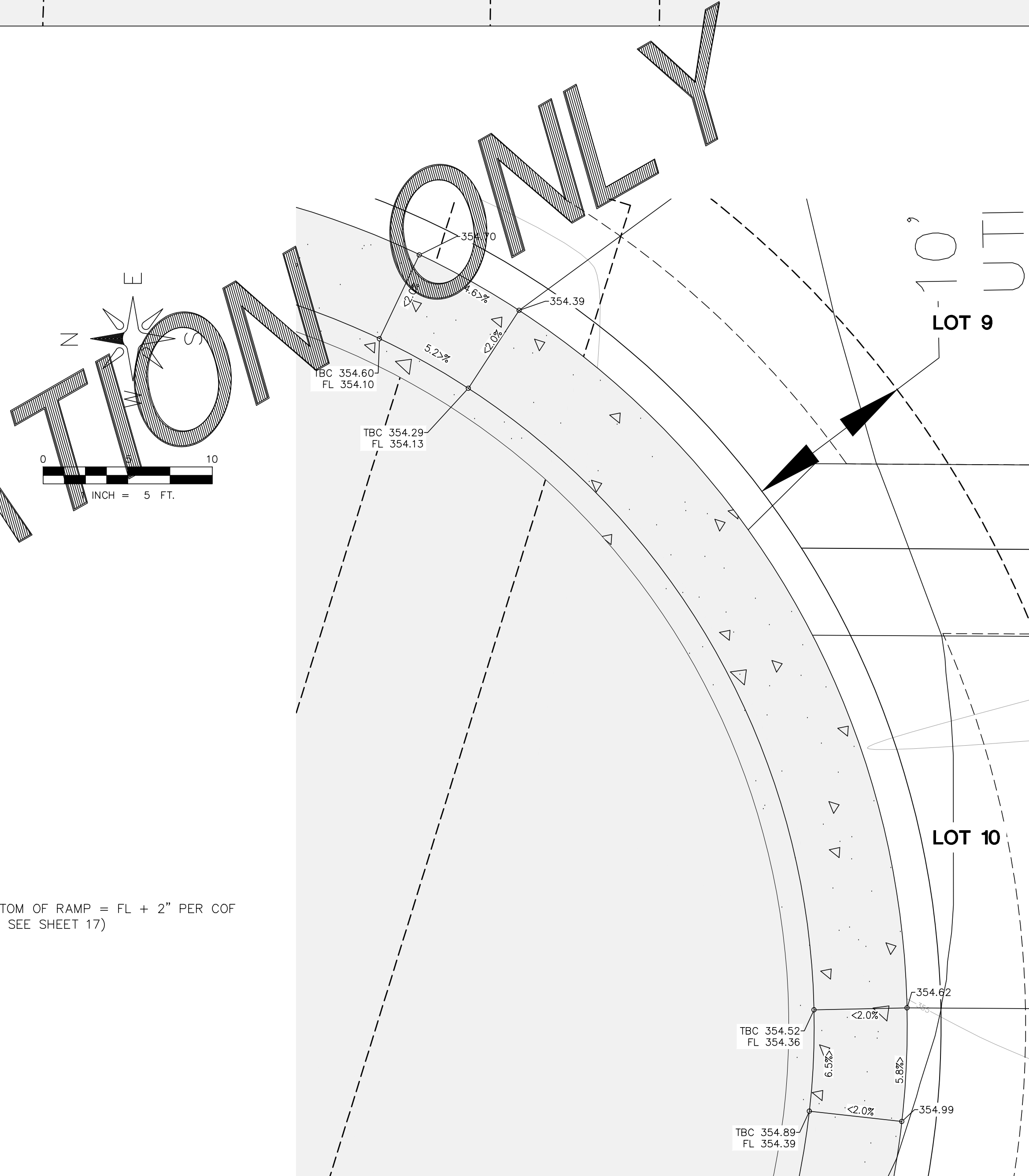
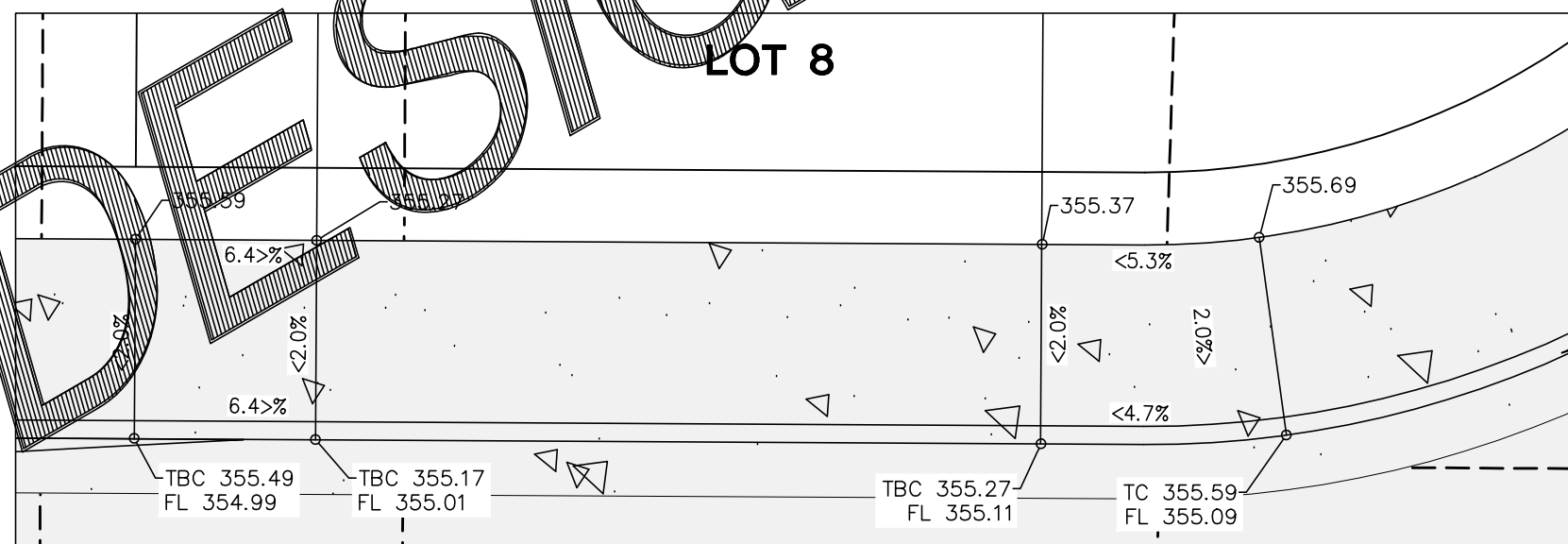
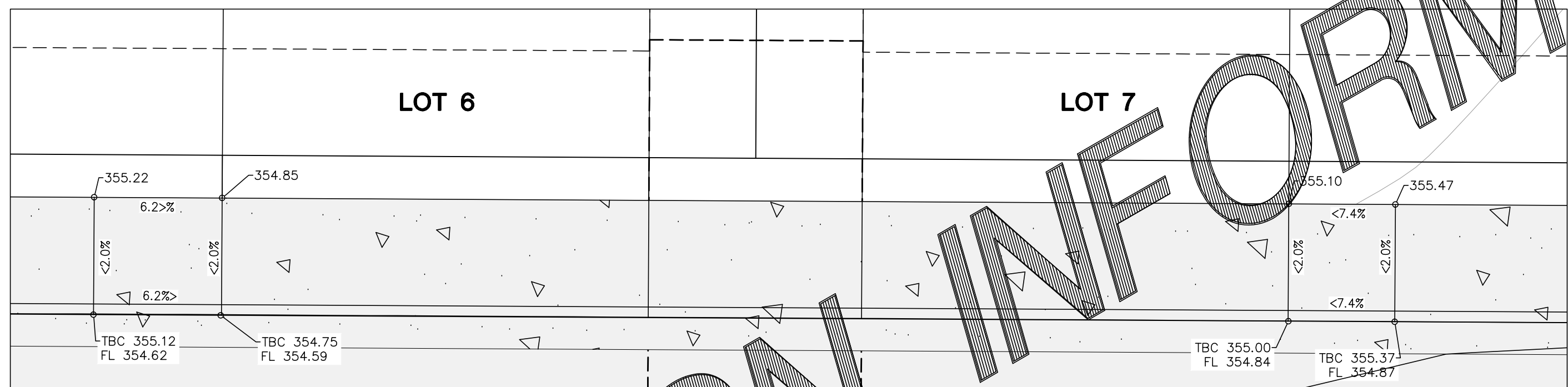
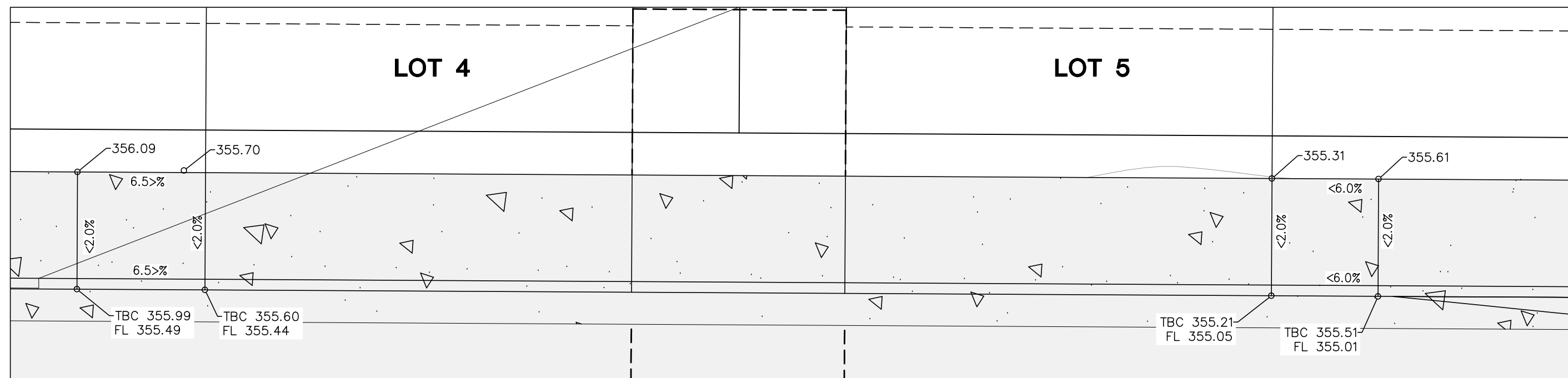
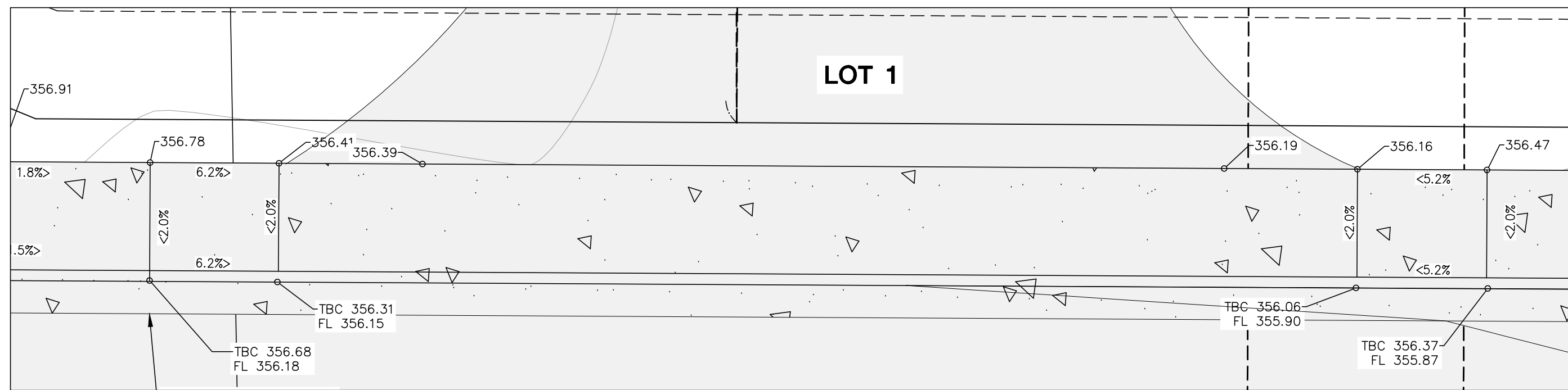
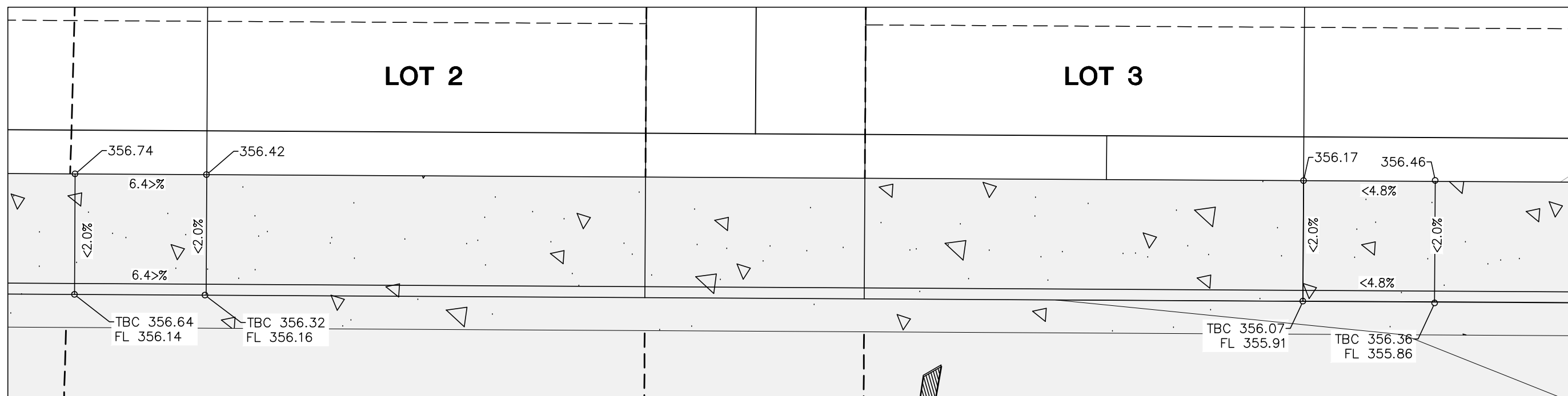
6249 CHURCH RD  
FERNDAL, WA 98248

PROJECT #: 2196  
DATE: 3/19/2025  
DESIGNED BY: RL  
DRAWN BY: JRF  
CHECKED BY: RL

**LD&S, INC.**  
5160 INDUSTRIAL PL. #108  
FERNDAL, WA 98248  
PHONE 360-383-0620  
FAX 360-383-0639

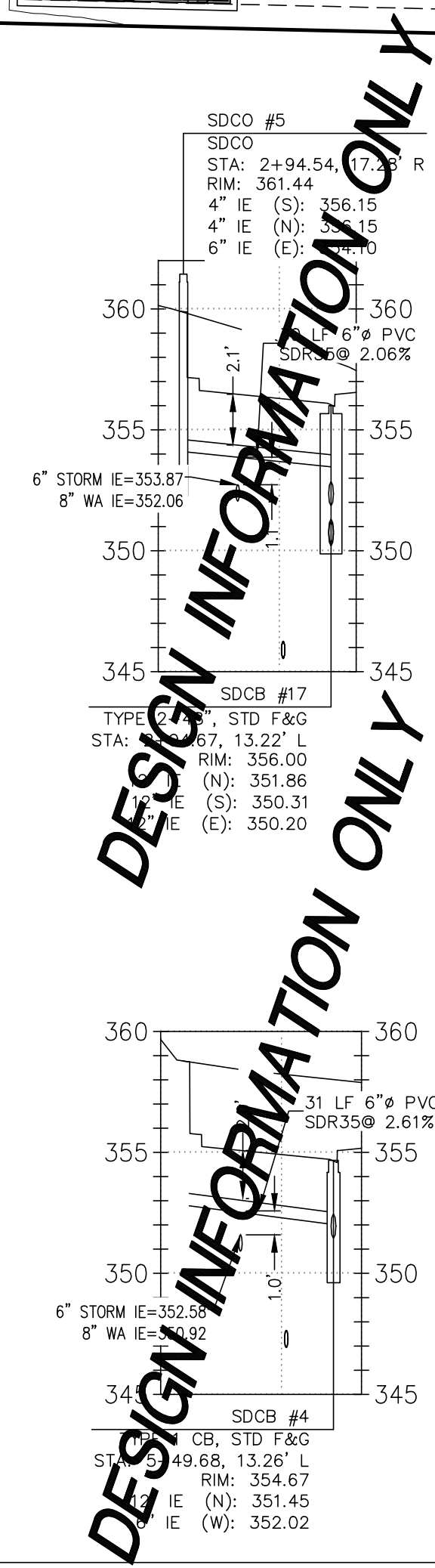


NO.	REVISION	BY	DATE



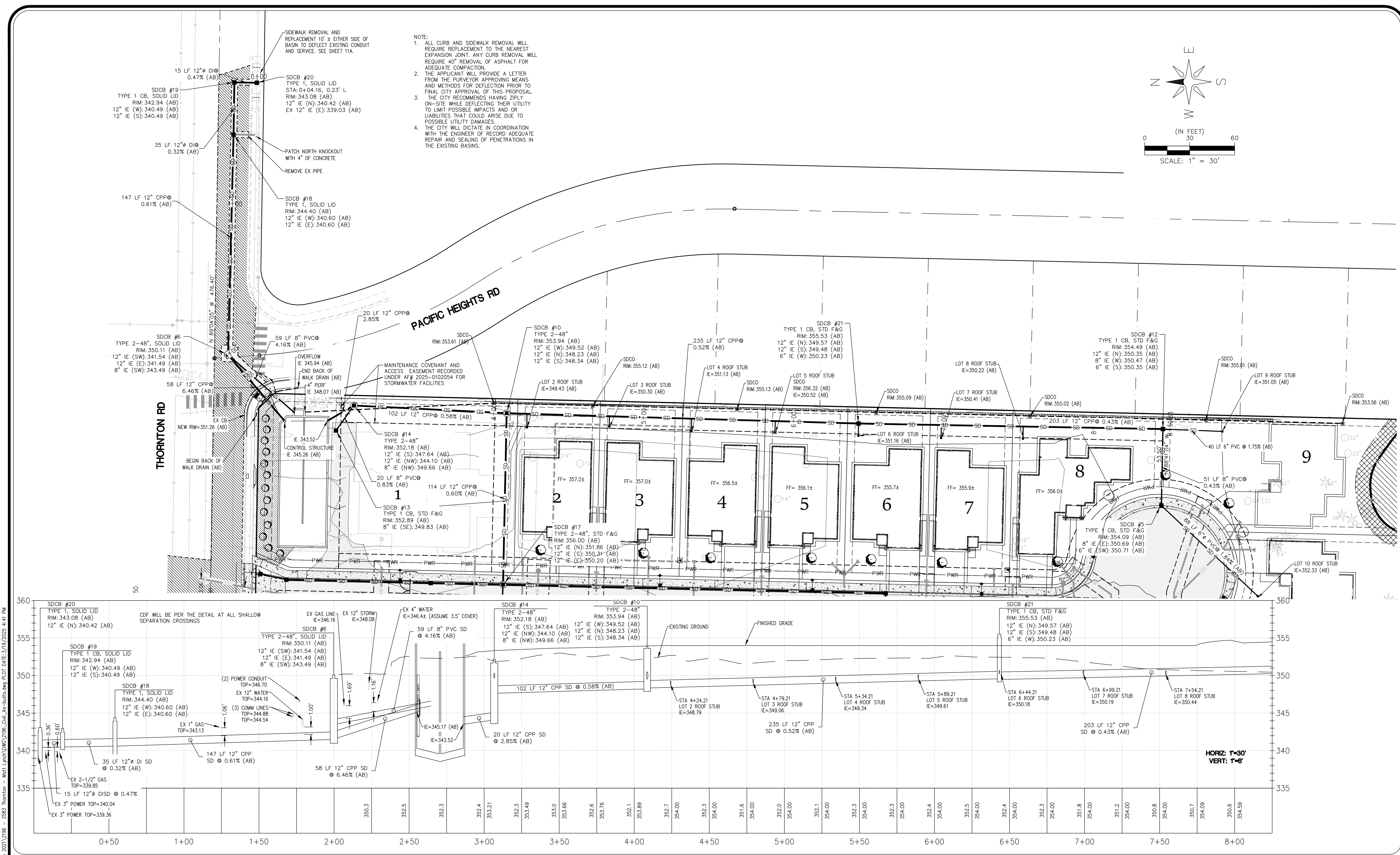
NOTE:  
TBOC AT BOTTOM OF RAMP = FL + 2" PER COF  
DETAIL R-9 ( SEE SHEET 17)





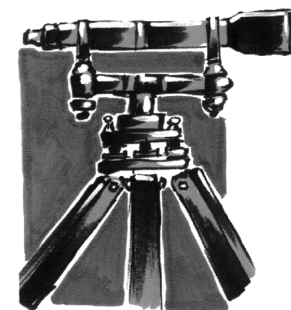
SHEET  
**10**  
OF **18**





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NO.	REVISION	BY	DATE



**LDES, INC.**  
5160 INDUSTRIAL PL. #108  
FERNDAL, WA 98248  
PHONE 360-383-0620  
FAX 360-383-0639

PROJECT #:	2196
DATE:	3/19/2025
DESIGNED BY:	RL
DRAWN BY:	JRF
CHECKED BY:	RL

**MATTHEW LYNCH**

6249 CHURCH RD  
FERNDAL, WA 98248



## STORMWATER PLAN & PROFILE II

**THORNTON HEIGHTS**

AF 390124-416472-0000 - 2583 THORNTON ST, FERNDAL, WASHINGTON  
A PORTION OF THE NE 1/4 OF THE NE 1/4 OF SECTION 24, TOWNSHIP 39 N., RANGE 1 E., W.M.

SHEET

**11**

OF

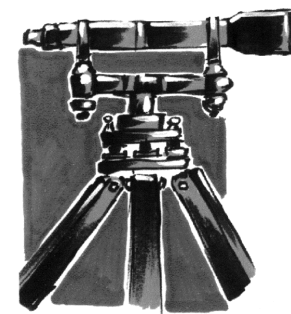
**18**

RECORD DRAWINGS



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**LD&S, INC.**  
5160 INDUSTRIAL PL. #108  
FERNDAL, WA 98248  
PHONE 360-383-0620  
FAX 360-383-0639

PROJECT #: 2196  
DATE: 3/19/2025  
DESIGNED BY: RL  
DRAWN BY: JRF  
CHECKED BY: RL

**MATTHEW LYNCH**

6249 CHURCH RD  
FERNDAL, WA 98248



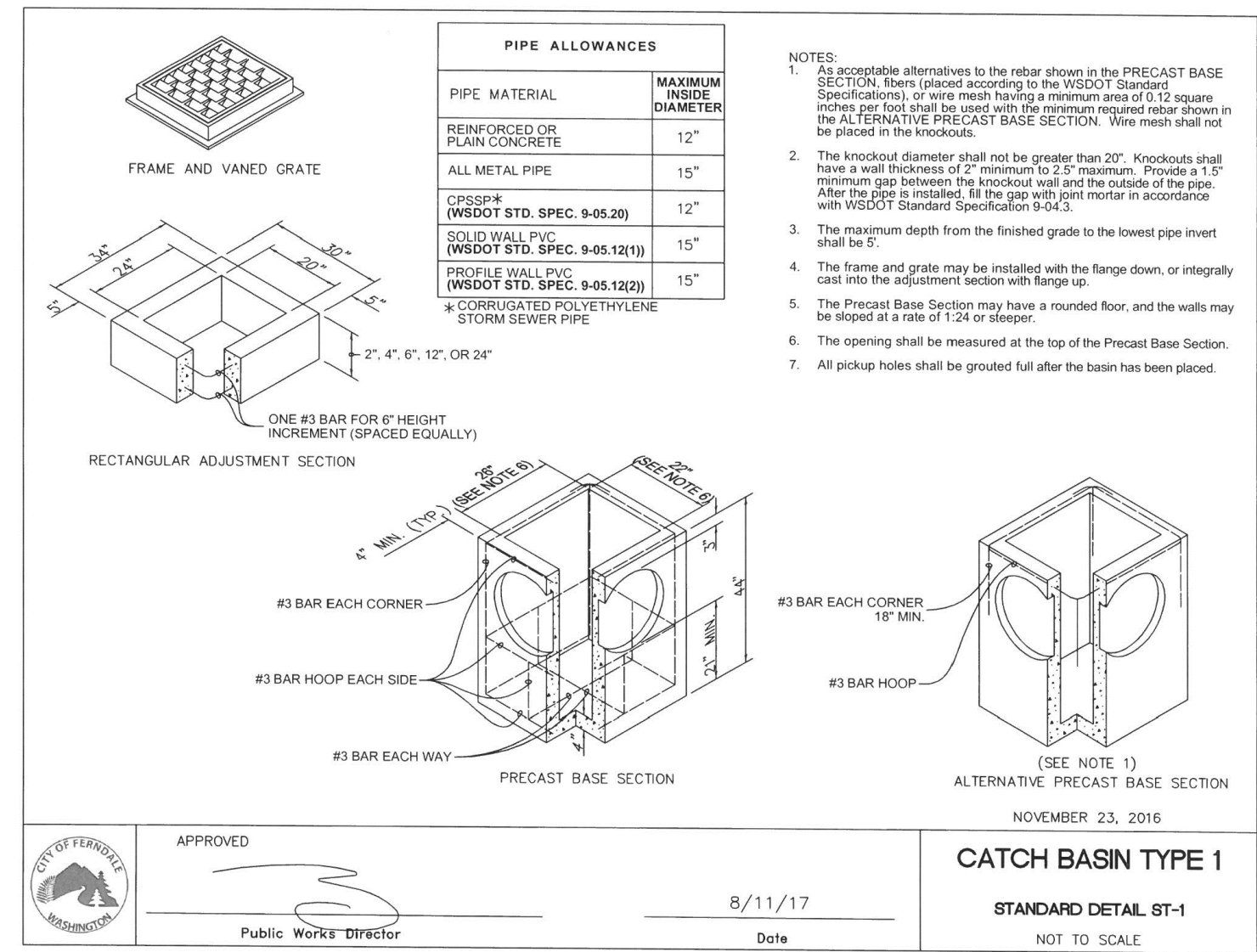
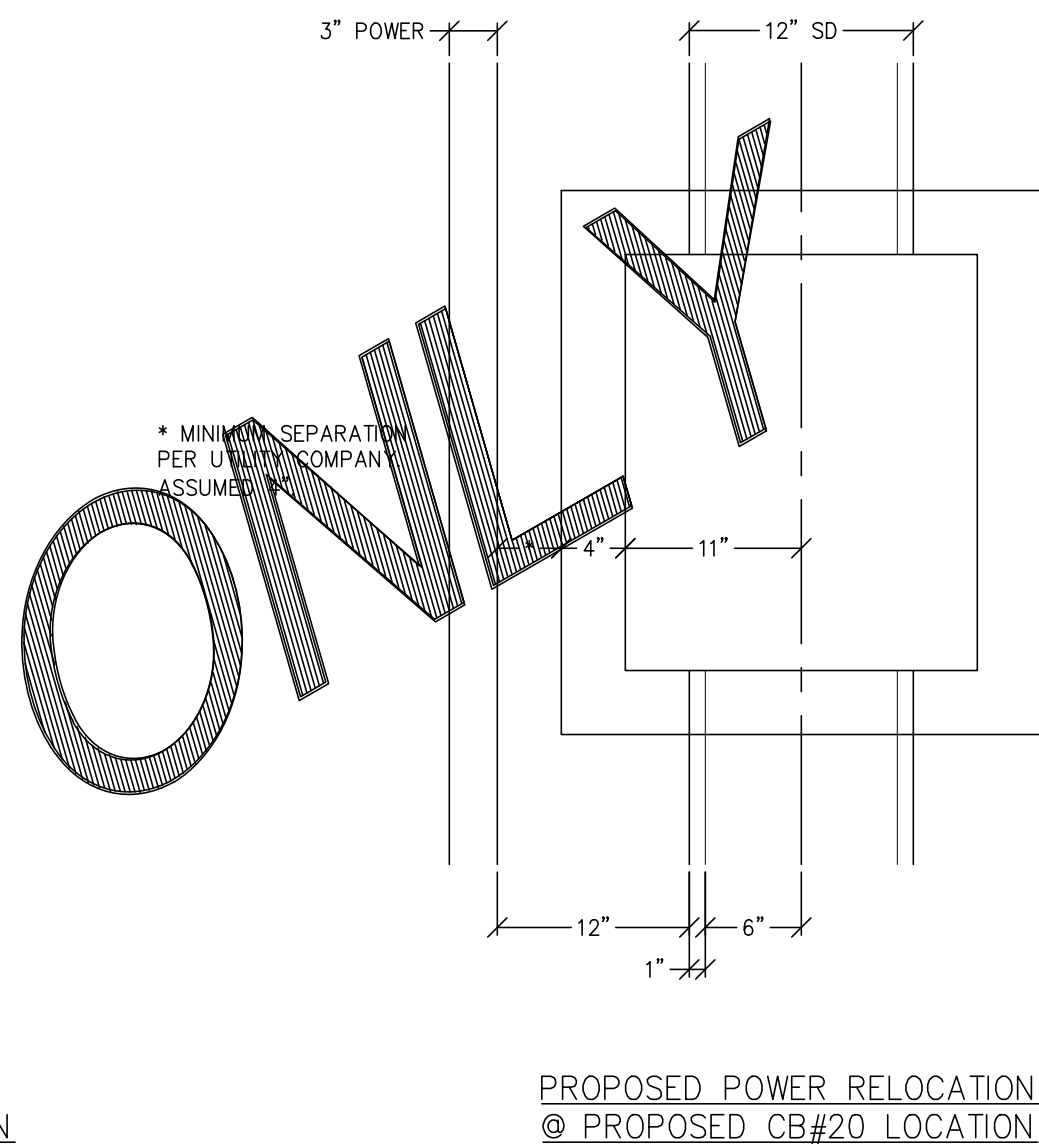
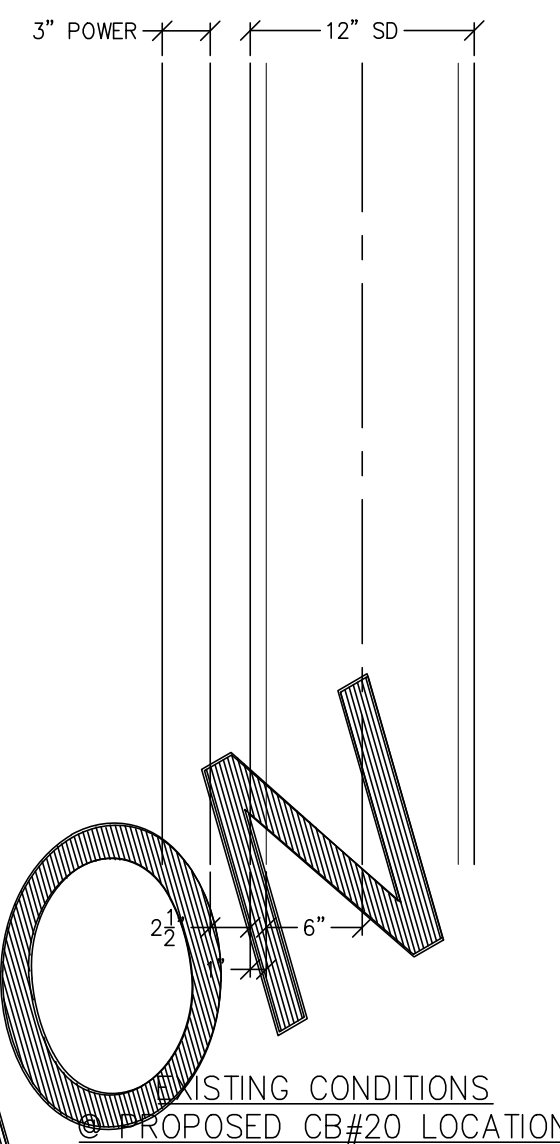
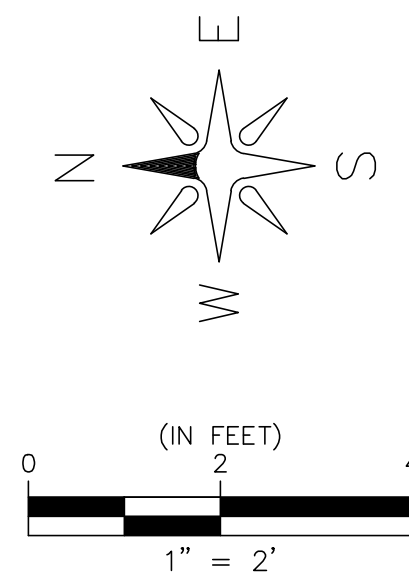
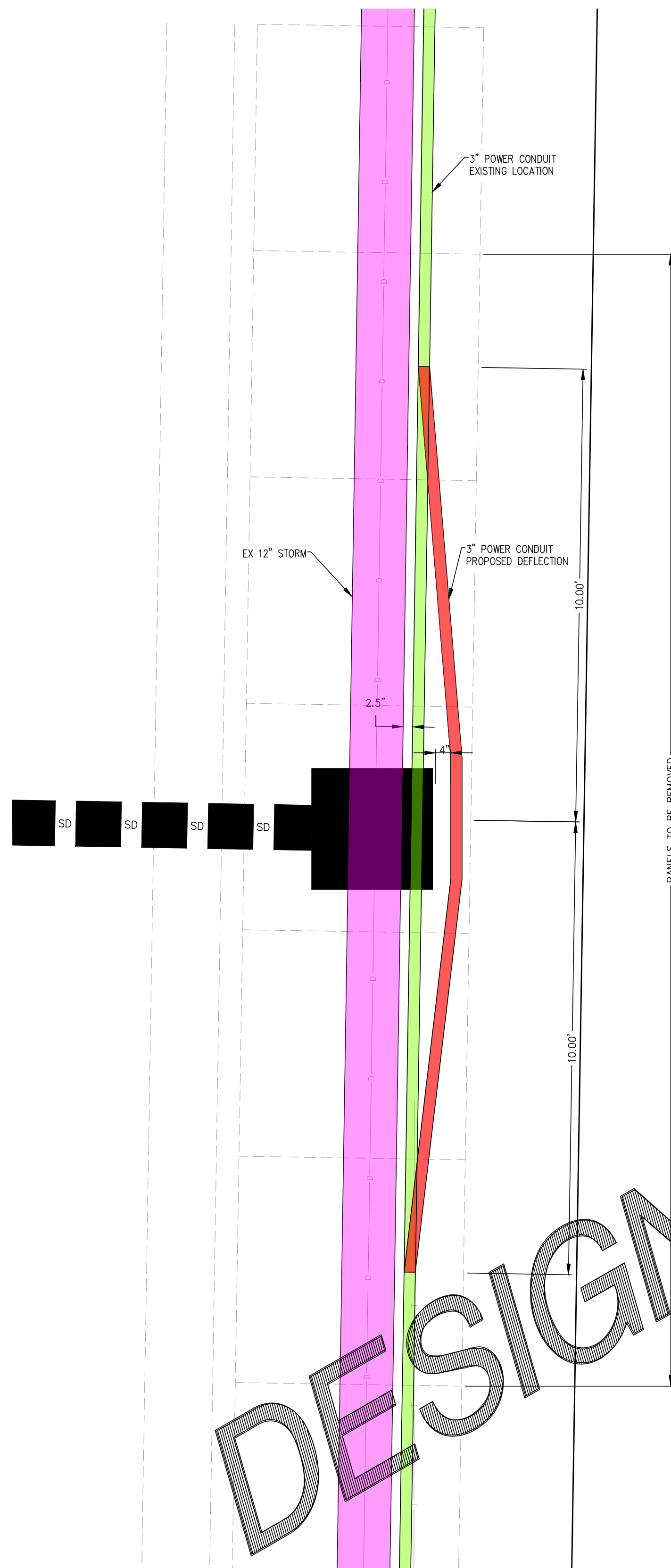
**UTILITY DEFLECTION AT SDCB #20**

**THORNTON HEIGHTS**  
AF 390124-416472-0000 - 2583 THORNTON ST, FERNDAL, WASHINGTON  
A PORTION OF THE NE 1/4 OF THE NE 1/4 OF SECTION 24, TOWNSHIP39 N., RANGE 1 E., W.M.

SHEET  
**11A**  
OF 18

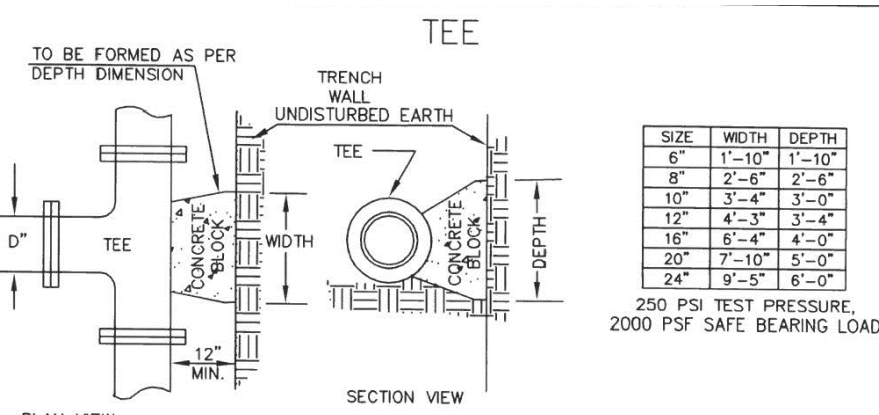
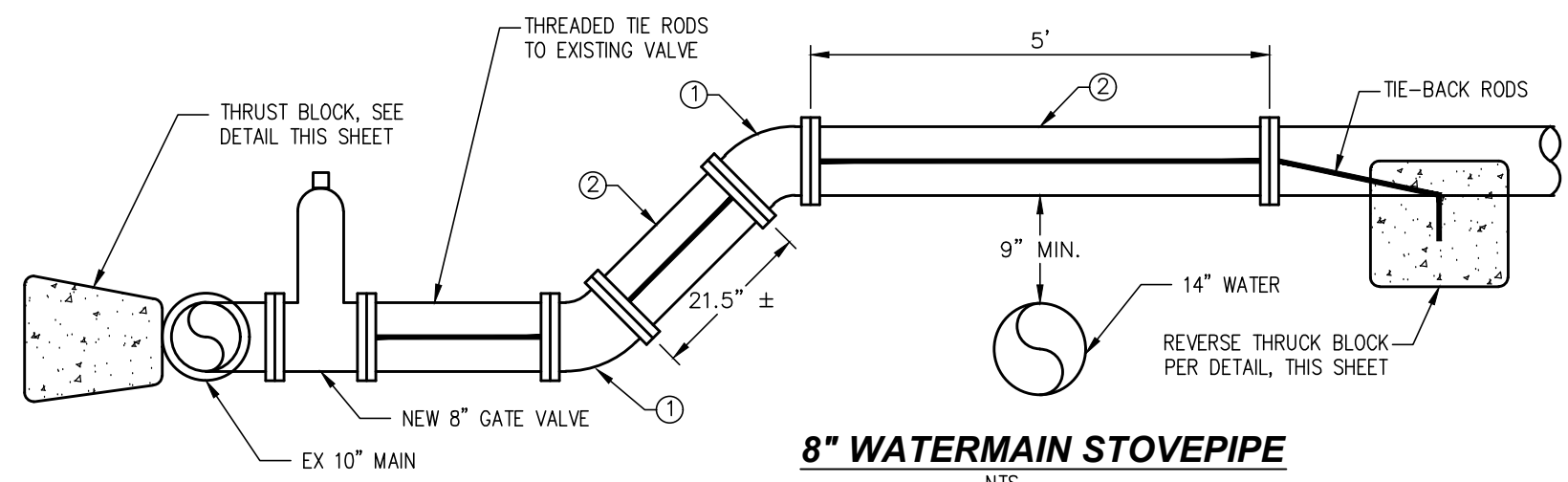
RECORD DRAWINGS

00757.013 03/20/25 RH

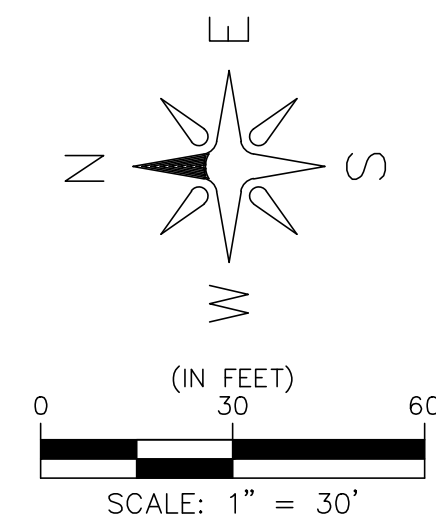
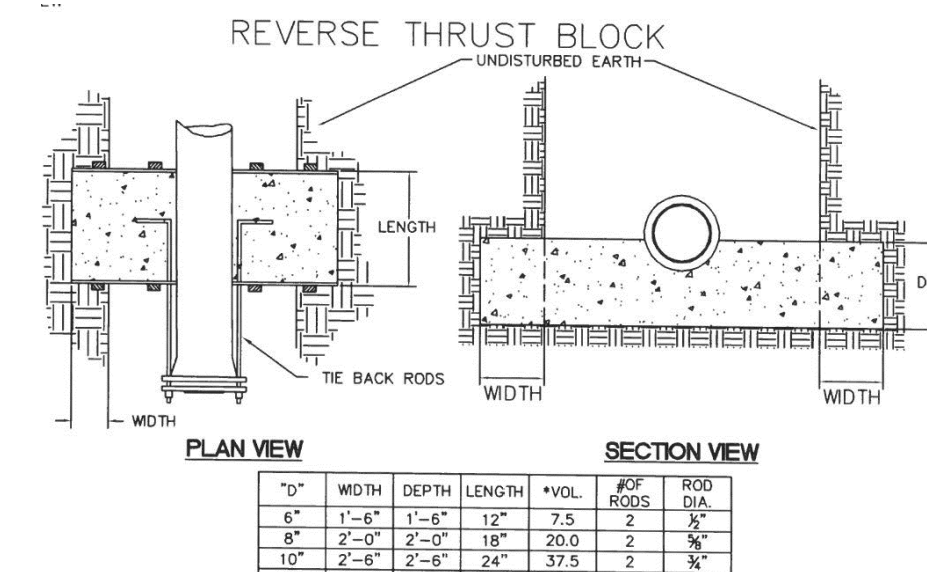




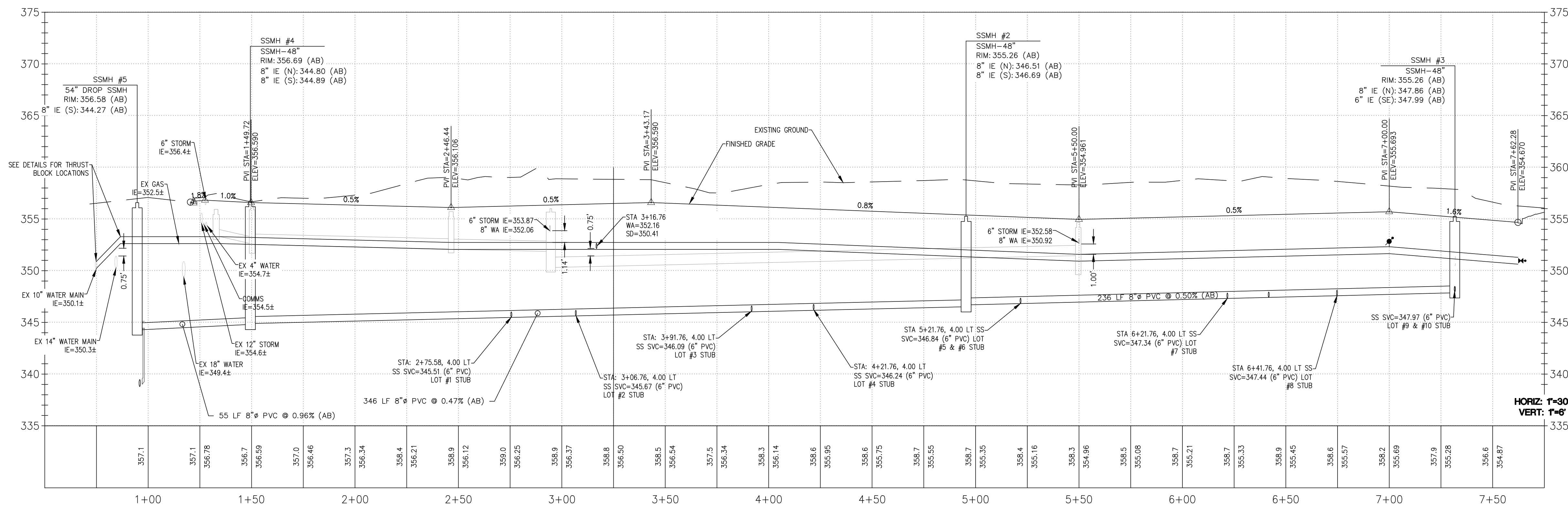
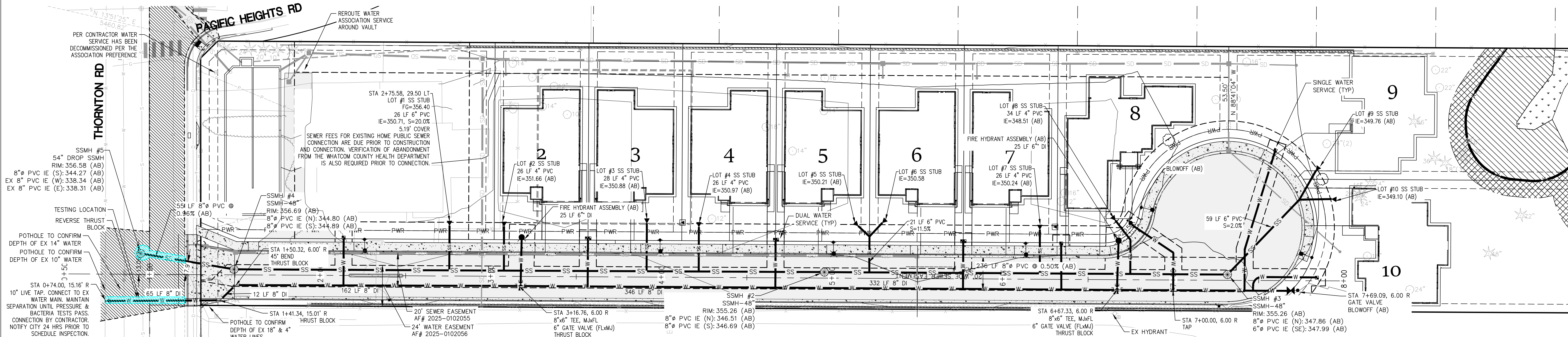
- KEY NOTES:
1. INSTALL 8" 45° BEND MJMJ W/ MEGALUG KIT
  2. INSTALL 8" CL 50 D.I. PIPE, FIELD FIT LENGTH, OR AS SHOWN. RESTRAIN WITH THREADED TIE RODS THROUGH THE STOVE PIPE ASSEMBLY



NOTE: THE ENGINEER OF RECORD AND/OR OWNERSHIP MUST GAIN APPROVAL AND PROVIDE EVIDENCE OF SAID APPROVAL FOR ANY PROPOSED WORK ON THE WATER ASSOCIATION LINE AS THE CITY DOES NOT HAVE THE JURISDICTION TO APPROVE WITHOUT THEIR CONSENT.

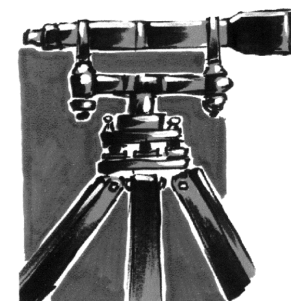


\* VOL = Approx. Volume of Blocking Material Required in cu. ft.  
RODS: A36 STEEL MINIMUM  
ALL BLOCKING TO BE ON UNDISTURBED MATERIAL.



NOTE: SEWER BYPASS PLAN MUST ALSO BE PROVIDED TO THE CITY FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

NO.	REVISION	BY	DATE



**LDES, INC.**  
5160 INDUSTRIAL PL. #108  
FERNDAL, WA 98248  
PHONE 360-383-0620  
FAX 360-383-0639

PROJECT #: 2196  
DATE: 3/19/2025  
DESIGNED BY: RL  
DRAWN BY: JRF  
CHECKED BY: RL

**MATTHEW LYNCH**

6249 CHURCH RD  
FERNDAL, WA 98248



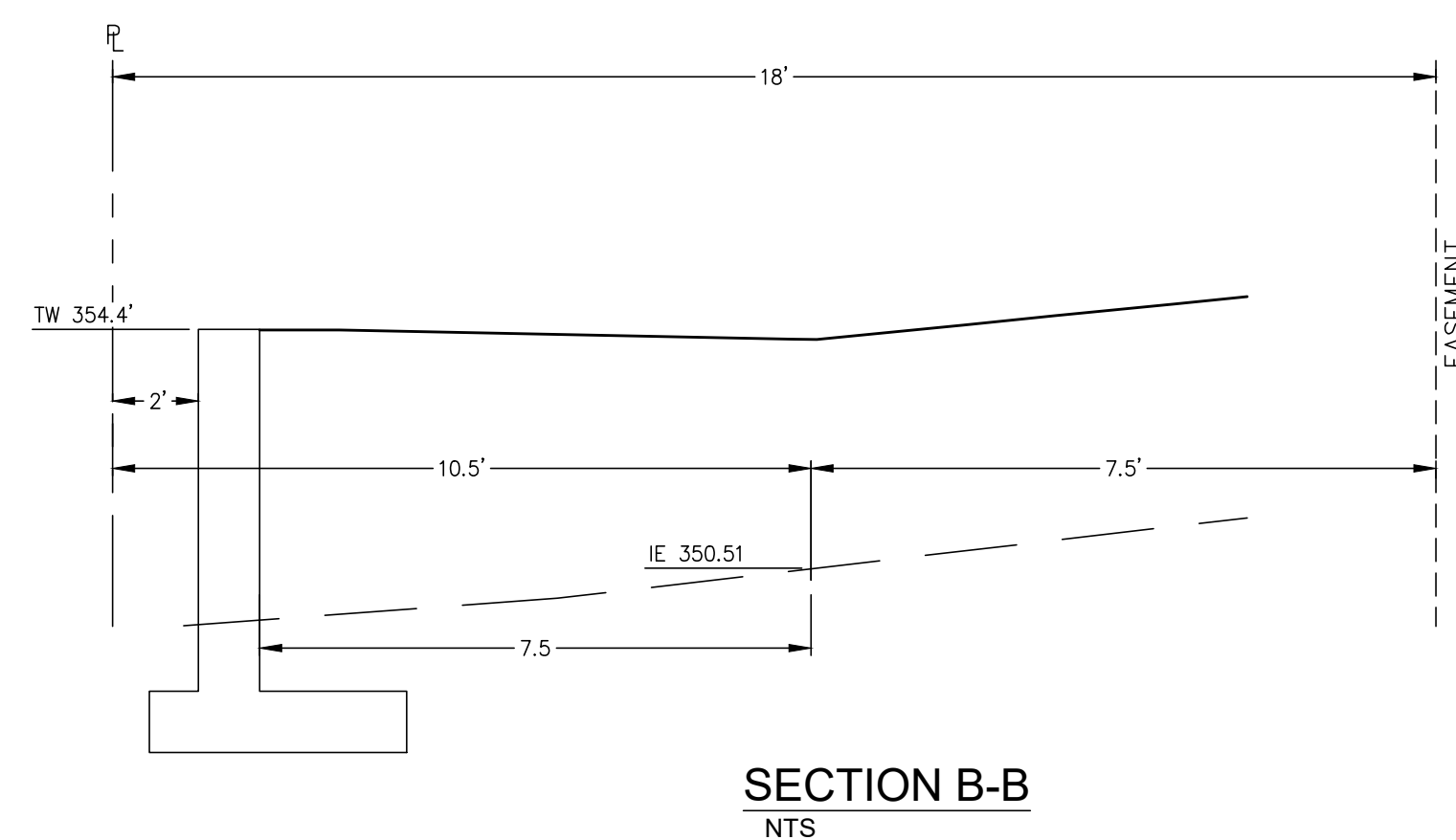
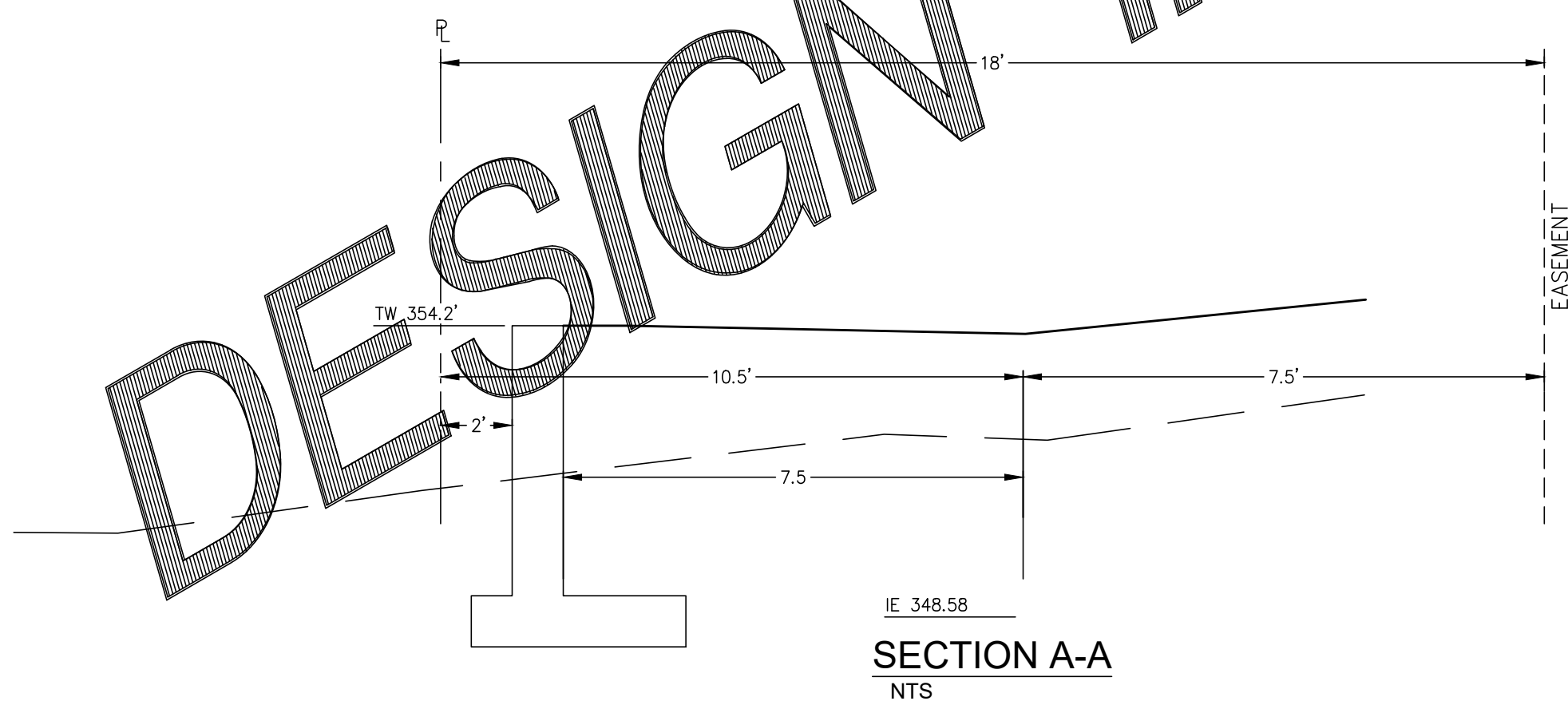
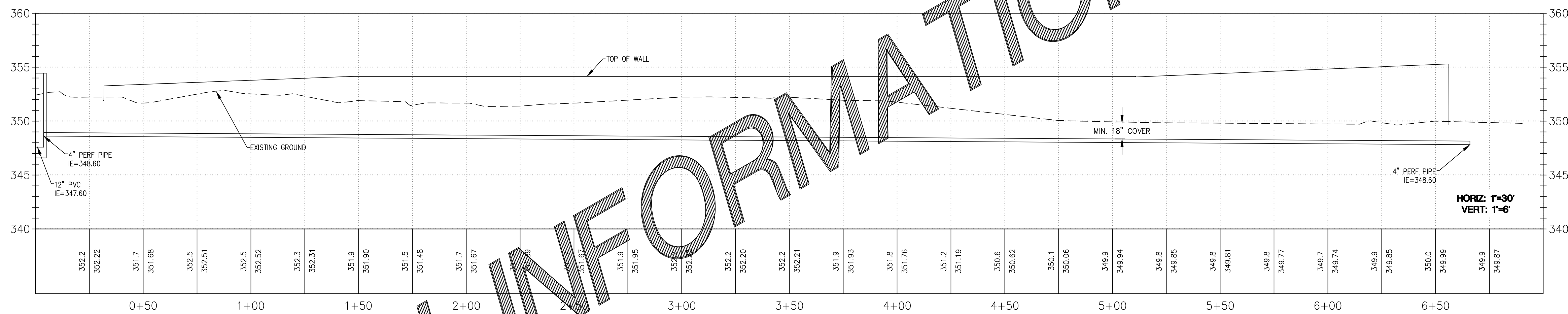
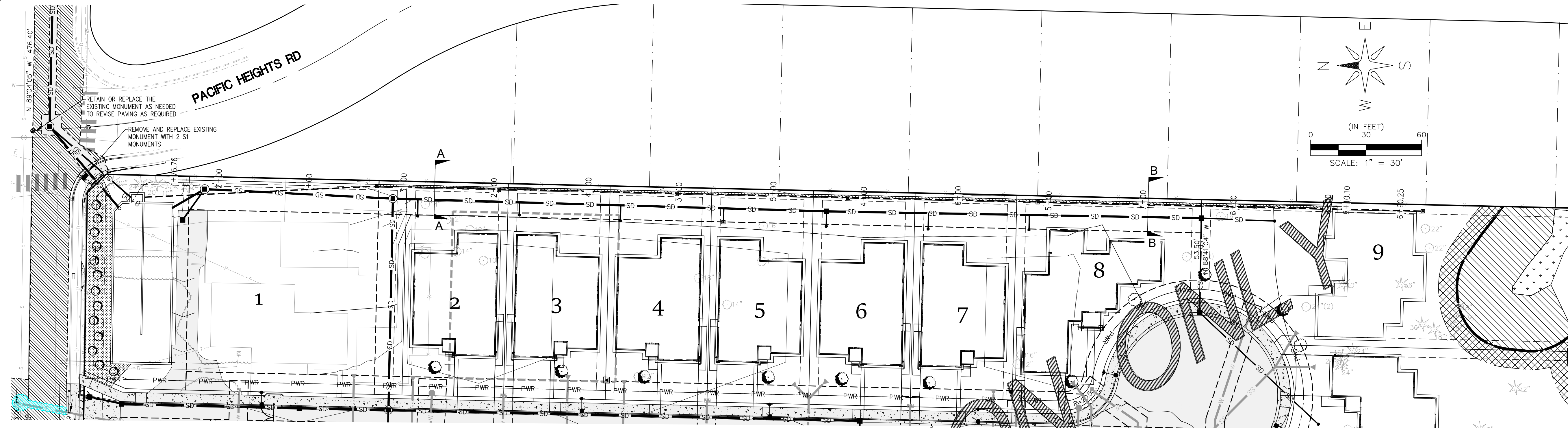
**WATER & SEWER  
PLAN & PROFILE**

**THORNTON HEIGHTS**

AF 390124-416472-0000 - 2593 THORNTON ST, FERNDAL, WASHINGTON  
A PORTION OF THE NE 1/4 OF THE NE 1/4 OF SECTION 24, TOWNSHIP 39 N., RANGE 1 E., W.M.

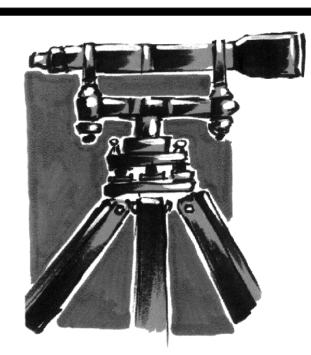
SHEET  
**12**  
OF  
**18**





- NOTE:
1. ALL LOT AND ROADWAY FILLS IN EXCESS OF 18" WILL BE DONE SO IN A STRUCTURAL MANNER AS DIRECTED BY THE ENGINEER OF RECORD OR LICENSED GEO-TECHNICAL ENGINEER. DOCUMENTS WILL BE PROVIDED TO THE CITY SPECIFYING WHERE THE FILLS ARE LOCATED, HOW DEEP, WHAT TYPE OF MATERIAL USED, METHOD OF PLACEMENT AND COMPACTION FROM THE GEO-TECHNICAL PROFESSIONAL FOR CITY RECORD PRIOR TO FINAL PROJECT ACCEPTANCE AND OR FINAL PLAT.
  2. ALL PROPOSED RETAINING WALLS EXCEEDING 4' IN HEIGHT WILL REQUIRE AN ADDITIONAL PERMIT THROUGH THE BUILDING DEPARTMENT.
  3. ALL PROPOSED CAST IN PLACE WALLS ON THE SITE HAVE BEEN REVIEWS BY THE BUILDING DEPARTMENT AND WILL REQUIRE A SEPARATE BUILDING PERMIT PRIOR TO CONSTRUCTION.

NO.	REVISION	BY	DATE



**LDES, INC.**  
5160 INDUSTRIAL PL. #108  
FERNDAL, WA 98248  
PHONE 360-383-0620  
FAX 360-383-0639

PROJECT #: 2196  
DATE: 3/19/2025  
DESIGNED BY: RL  
DRAWN BY: JRF  
CHECKED BY: RL

**MATTHEW LYNCH**  
  
6249 CHURCH RD  
FERNDAL, WA 98248

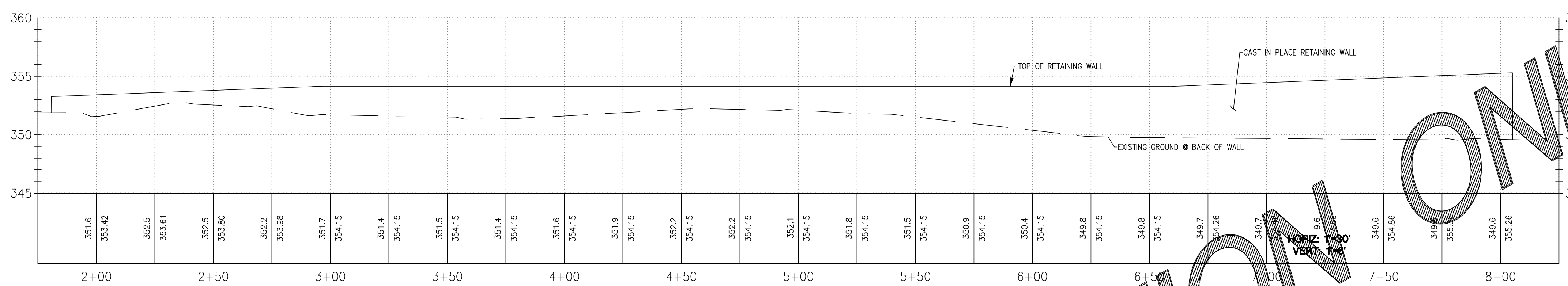
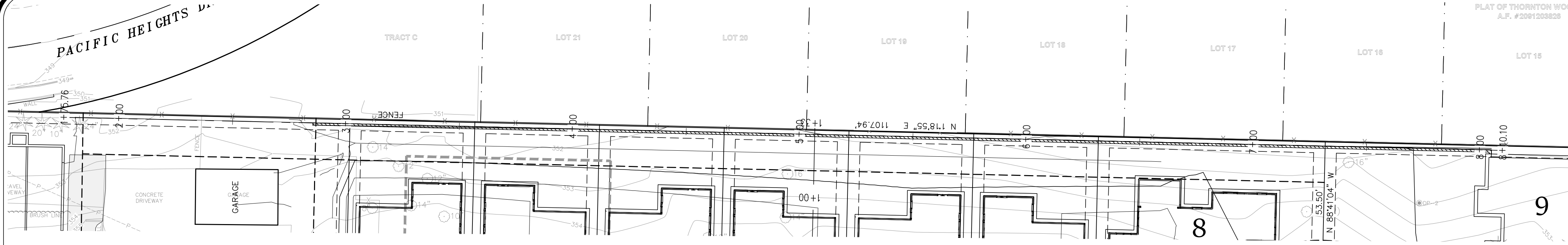


**RETAINING WALL FOOTING DRAIN  
PLAN & PROFILE**  
  
**THORNTON HEIGHTS**  
AF 390124-416472-0000 - 2583 THORNTON ST, FERNDAL, WASHINGTON  
A PORTION OF THE NE 1/4 OF THE NE 1/4 OF SECTION 24, TOWNSHIP 39 N., RANGE 1 E., W.M.

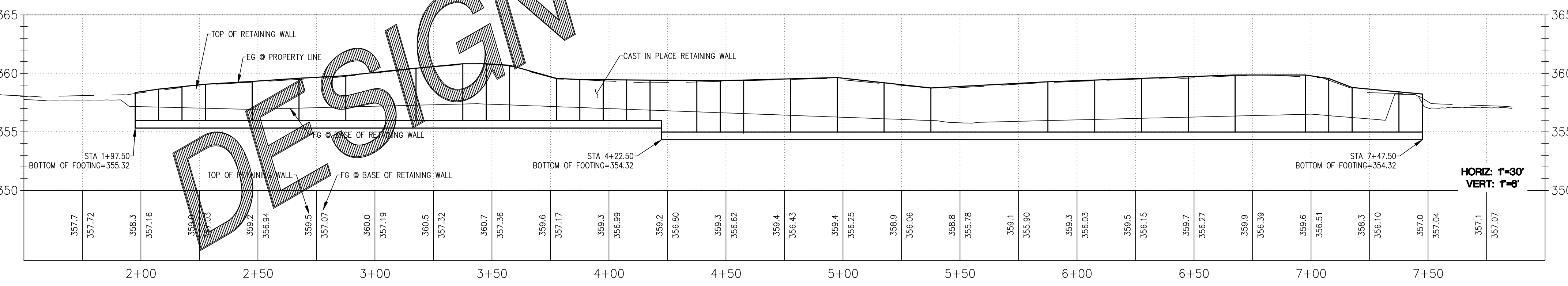
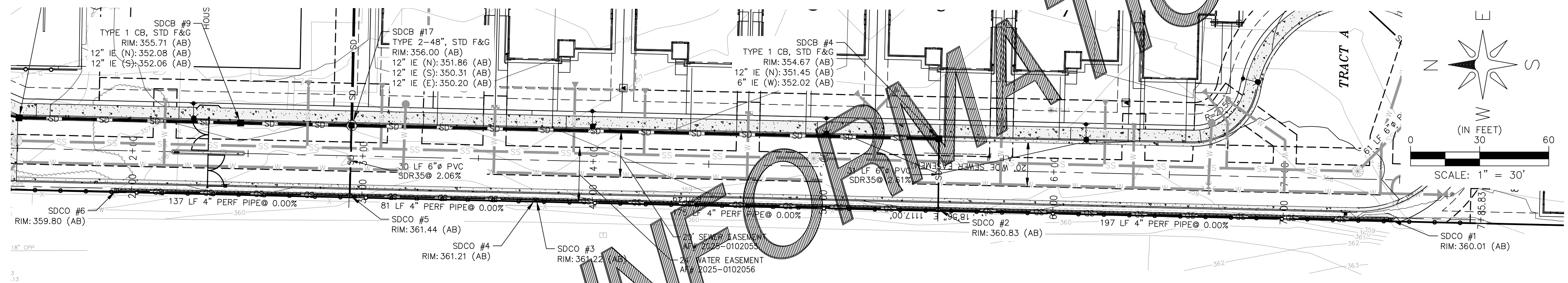
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OF 18



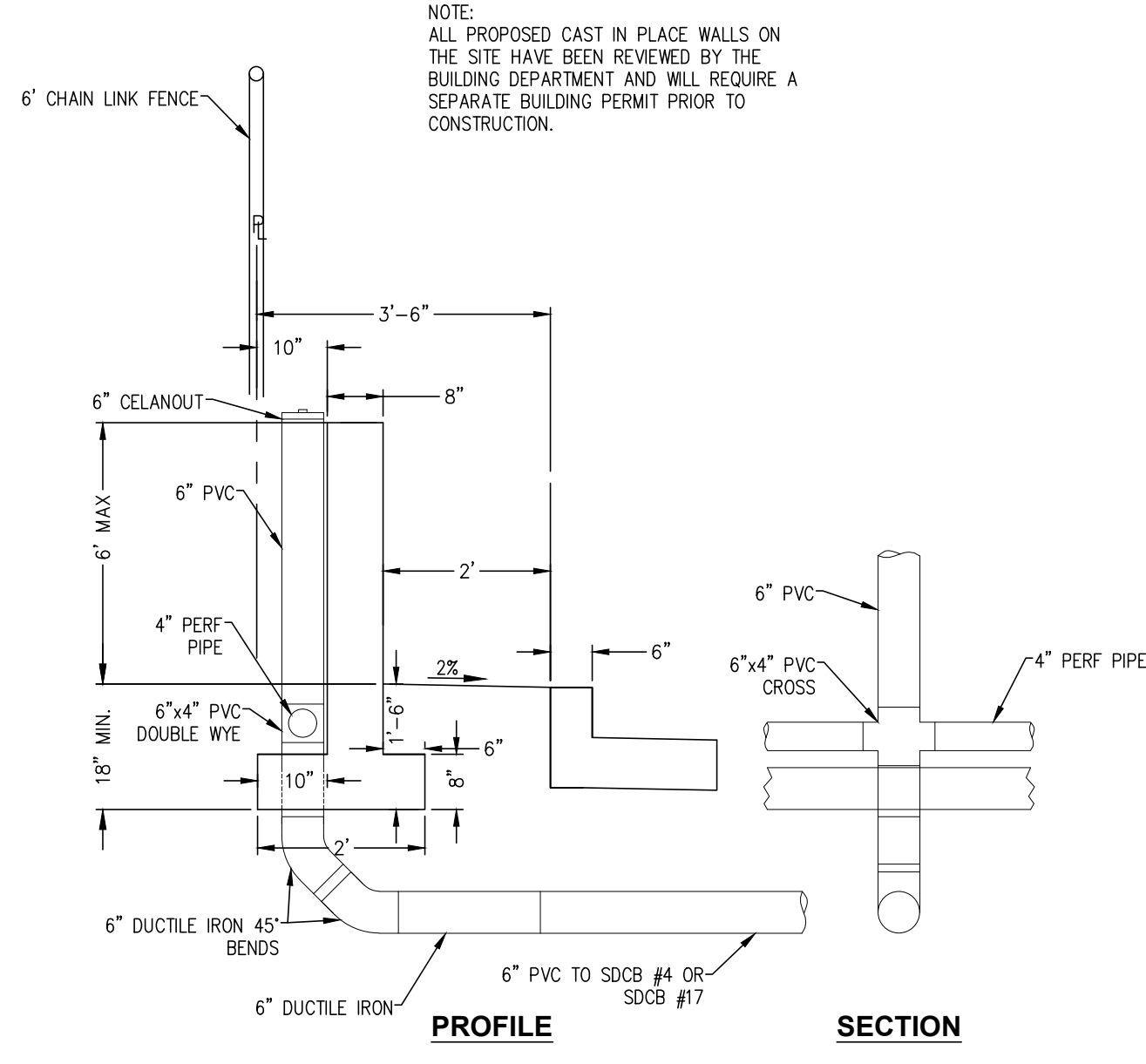
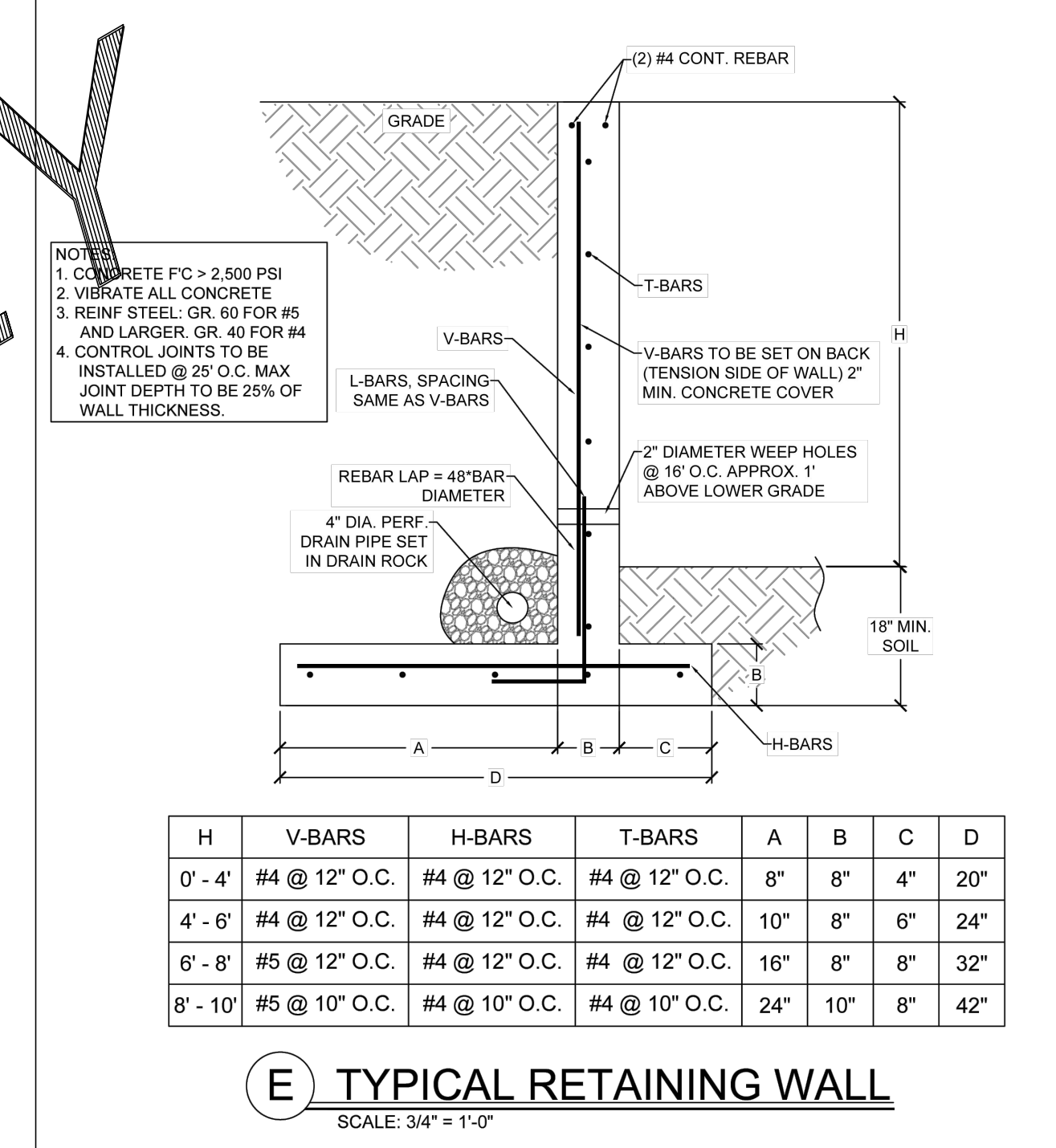
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EAST WALL PROFILE

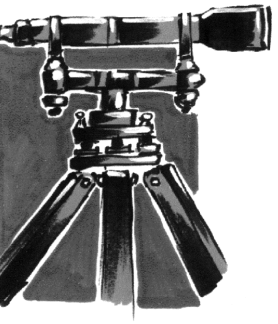


WEST WALL PROFILE



WEST WALL TYPICAL SECTION  
N.T.S.

NO.	REVISION	BY	DATE



**LD&S, INC.**  
5160 INDUSTRIAL PL. #108  
FERNDAL, WA 98248  
PHONE 360-383-0620  
FAX 360-383-0639

PROJECT #: 2196  
DATE: 3/19/2025  
DESIGNED BY: RL  
DRAWN BY: JRF  
CHECKED BY: RL

**MATTHEW LYNCH**  
6249 CHURCH RD  
FERNDAL, WA 98248

**APPROVED**  
03/20/2025

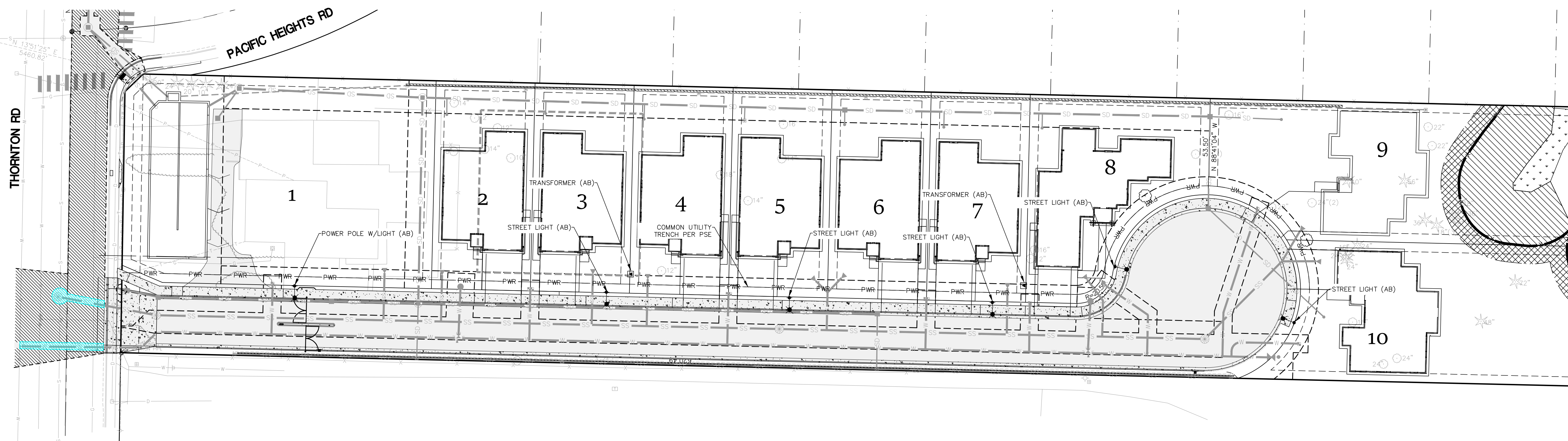
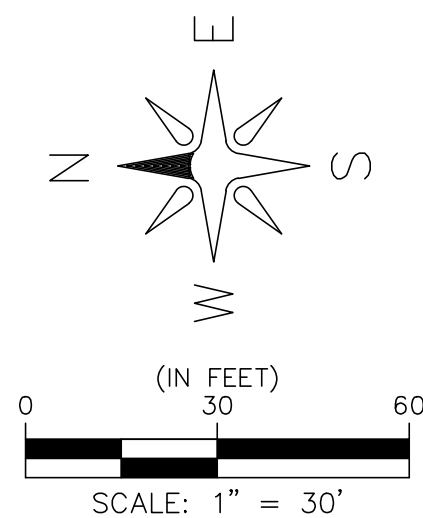
BY: *Matthew Lynch*  
CITY OF FERNDAL  
PUBLIC WORKS DEPARTMENT

**EAST & WEST RETAINING WALL  
PLAN & PROFILES**

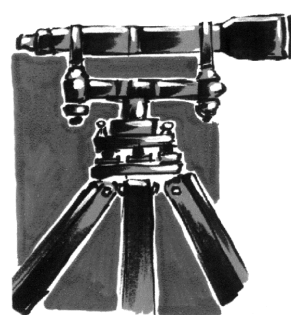
**THORNTON HEIGHTS**  
AF 390124-416472-0000 - 2583 THORNTON ST, FERNDAL, WASHINGTON  
A PORTION OF THE NE 1/4 OF THE NE 1/4 OF SECTION 24, TOWNSHIP 39 N., RANGE 1 E., W.M.

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**14**  
OF  
**18**





NO.	REVISION	BY	DATE
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**LD&S, INC.**  
5160 INDUSTRIAL PL. #108  
FERNDAL, WA 98248  
PHONE 360-383-0620  
FAX 360-383-0639

PROJECT #:	2196
DATE:	3/19/2025
DESIGNED BY:	RL
DRAWN BY:	JRF
CHECKED BY:	RL

**MATTHEW LYNCH**

6249 CHURCH RD  
FERNDAL, WA 98248



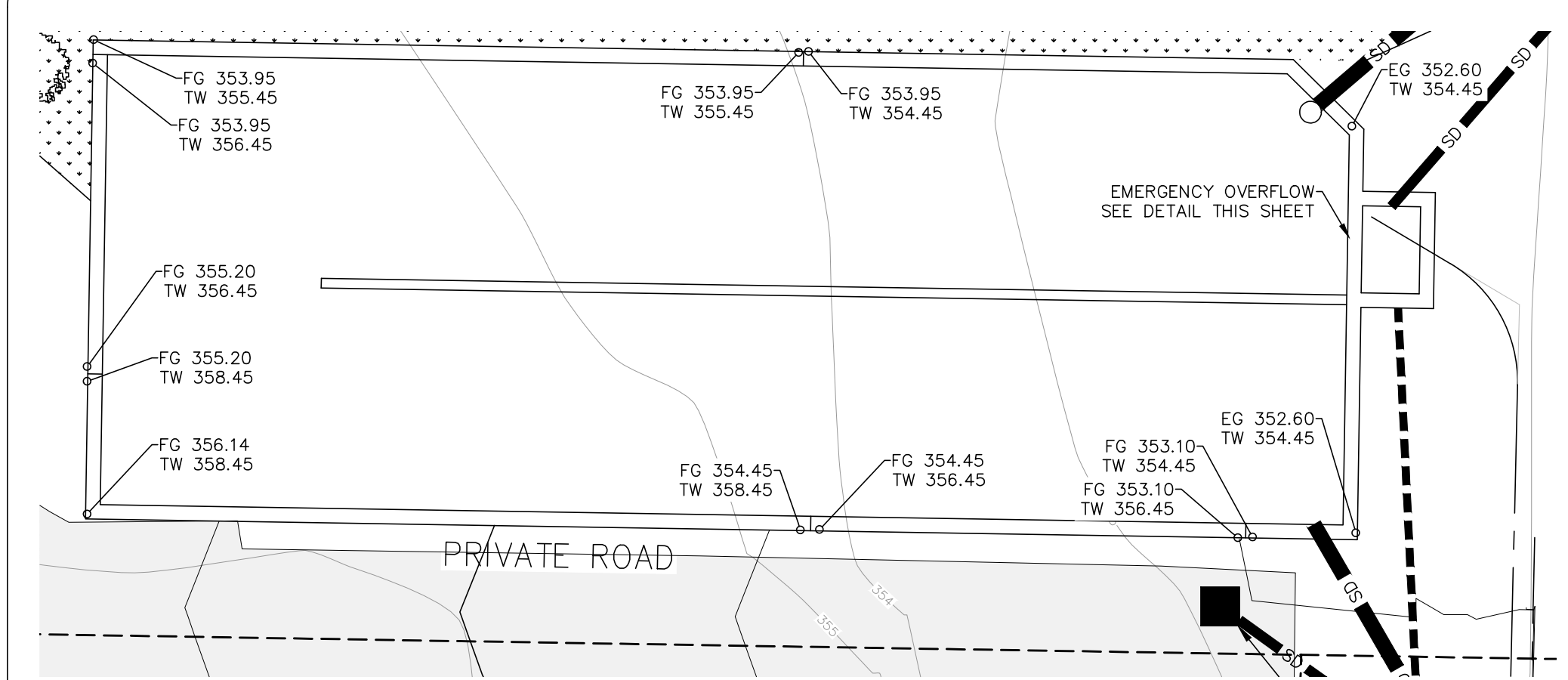
**LIGHTING & ELECTRICAL PLAN**

**THORNTON HEIGHTS**  
AF 390124-416472-0000 - 2593 THORNTON ST, FERNDAL, WASHINGTON  
A PORTION OF THE NE 1/4 OF THE NE 1/4 OF SECTION 24, TOWNSHIP39 N., RANGE 1 E., W.M.

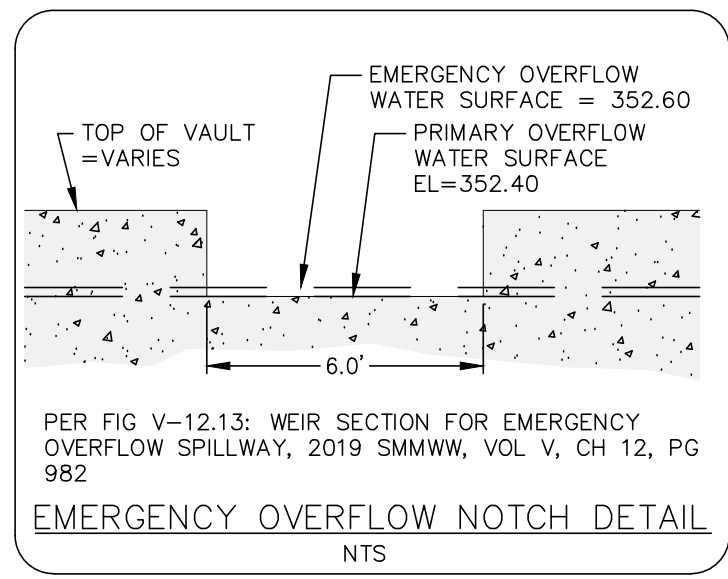
SHEET  
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OF  
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\\C:\Common\Land Projects\2021\21956 - 2583 Thornton - Mat Lynch\DWG\21956\_Civil\_A5-Building Plot DATE: 3/19/2025 4:45 PM



ON-SITE STORMWATER VAULT PLAN  
1"=10'



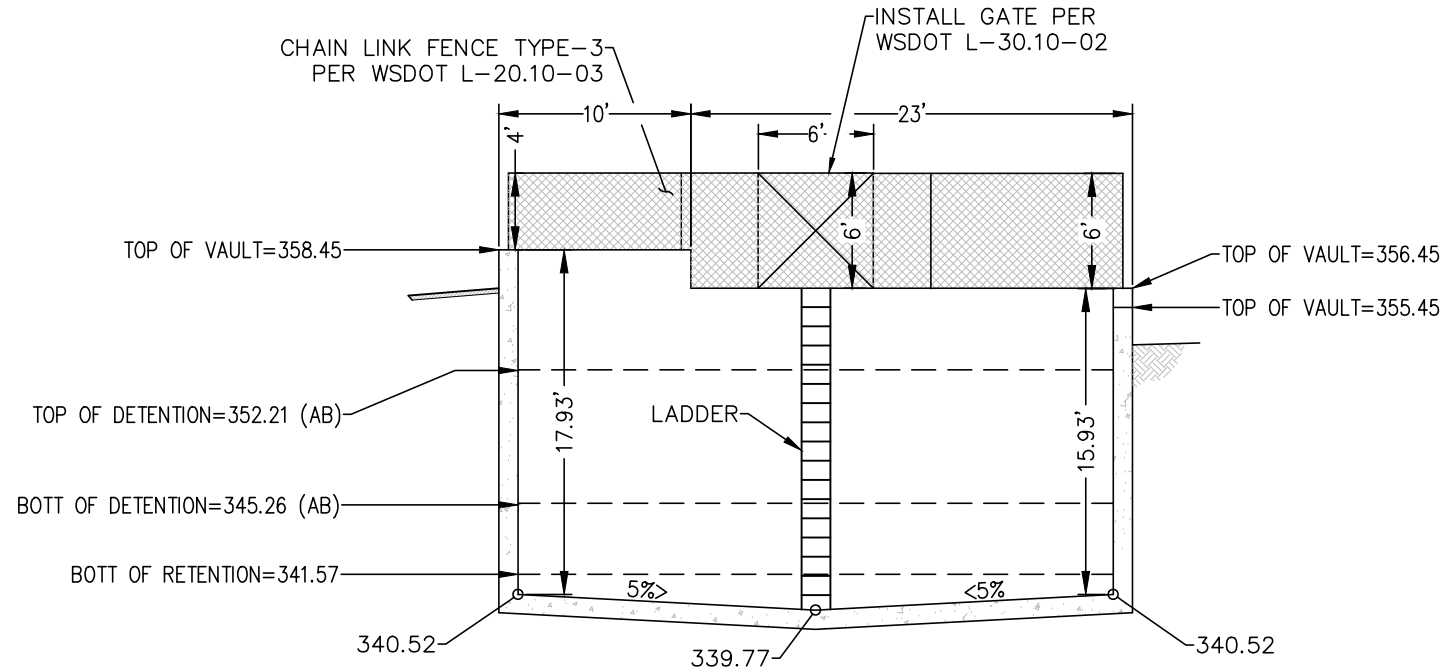
IMPERVIOUS SURFACE ALLOCATION	
LOT	IMPERVIOUS (SF)
1	2,940
2	3,585
3	3,585
4	3,585
5	3,585
6	3,585
7	3,152
8	4,570
9	4,650
10	5,493
TRACT A	27,150
LOT TOTAL	38,760
PLAT TOTAL	65,910

\*BASED ON CALCULATIONS PER MEMO DATED FEBRUARY 21, 2025

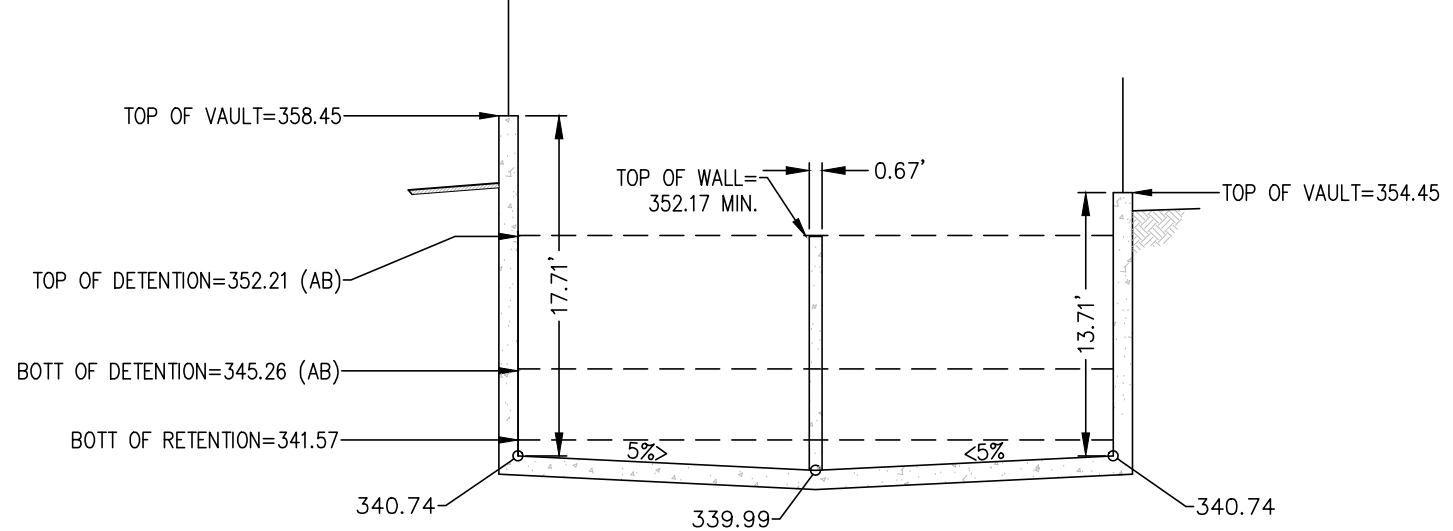
OPEN TOP DETENTION/WETVAULT INFORMATION:  
VAULT BOTTOM AREA = 2,586 SF  
DETENTION DEPTH = 7'-FT  
RETENTION DEPTH = 3.6'-FT  
DETENTION VOLUME = 16,102 CF  
17,830.97 CF (AB) PER MEMO DATED FEBRUARY 21, 2025  
RETENTION VOLUME = 9,310 CF  
DETENTION VOLUME REQUIRED = 17,993 CF PER WWHM2012  
RETENTION VOLUME REQUIRED = 0.2177 AC-FT (9,292 CF) PER WWHM2012  
PRIMARY OVERFLOW WATER SURFACE = 352.40 ELEV.  
EMERGENCY OVERFLOW WATER SURFACE = 352.60 ELEV.

OPEN TOP COMBINED DETENTION/WETVAULT (BMP T10.40) NOTES:  
1. A COF BUILDING PERMIT IS REQUIRED FOR CONSTRUCTING THE VAULT.  
2. VAULTS CONSTRUCTED CLOSER THAN 20' FROM PROPERTY LINE AND/OR CITY OF FERNDALE ROW MUST BE DESIGNED APPROPRIATELY BY A STRUCTURAL ENGINEER IN ACCORDANCE WITH SWMM GUIDELINES AND THE CONDITIONS IN WHICH IT WILL BE PLACED. THE PROJECT CIVIL ENGINEER OF RECORD WILL BE REQUIRED TO CERTIFY THAT CONSTRUCTION AND PLACEMENT WAS DONE IN ACCORDANCE WITH SAID GUIDELINES PRIOR TO PROJECT ACCEPTANCE BY PUBLIC WORKS.  
3. INSTALL HANGING REMOVABLE CONFINED SPACE SIGN UNDER EACH ACCESS LID, PER OSHA REQUIREMENTS.  
4. VAULT MUST BE CONSTRUCTED WITHOUT TEMPORARY IMPACTS TO ADJACENT PROPERTIES.

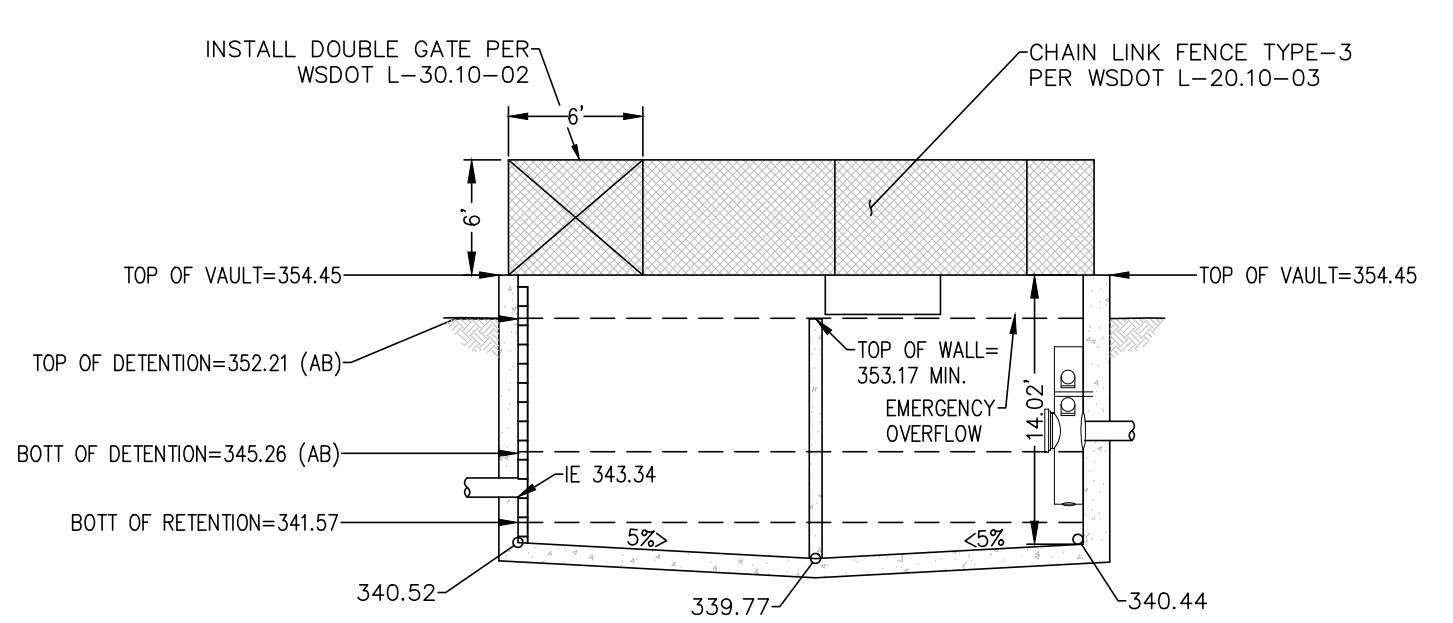
OPEN TOP COMBINED DETENTION/WETVAULT STRUCTURAL NOTES:  
1. THE CONCRETE DETENTION VAULT MUST BE DESIGNED BY A STRUCTURAL ENGINEER OR CIVIL ENGINEER WITH STRUCTURAL EXPERTISE IN CONFORMANCE WITH THE VOLUME III PAGE 3-42 & 3-43 OF THE 2014 STORMWATER MANAGEMENT VOLUME.  
2. MINIMUM 3000 PSI STRUCTURAL REINFORCED CONCRETE MUST BE USED PER THE 2019 SWMM, VOL. V, PAGE 998.  
3. STRUCTURAL CALCULATIONS SHALL ADDRESS VAULT BUOYANCY, SPECIFICALLY BUOYANCY WHEN THE VAULT IS EMPTY. FOR BUOYANCY CALCULATIONS ASSUME THAT THE HIGH GROUNDWATER ELEVATION IS AT GRADE.  
4. WATER STOPS MUST BE PROVIDED AT ALL CAST IN PLACE CONSTRUCTION JOINTS PER THE 2014 SWMM, VOL. V, FIGURE 3.2.8.  
5. THE ENGINEER OF RECORD MUST CERTIFY THAT THE STORMWATER VAULT IS CONSTRUCTED IN CONFORMANCE WITH THE 2014 STORMWATER MANAGEMENT MANUAL, THE APPROVED STRUCTURAL DESIGN AND THE APPROVED CIVIL PLANS.  
6. THE STRUCTURAL PLANS SHALL INCLUDE SHEET 12 OF THE APPROVED CIVIL PLANS.  
7. VAULT MUST BE PLACED ON STABLE WELL-CONSOLIDATED NATIVE MATERIAL WITH SUITABLE BEDDING PER VOL. III, PAGE 3-38 OF THE SWMM.  
8. ALL CONSTRUCTION JOINTS MUST BE PROVIDED WITH WATER STOPS PER VOLUME III, PAGE 3-37 & 3-41 OF THE SWMM.  
9. VAULT SHALL HAVE SUFFICIENT ACCESS FOR MAINTENANCE TO ALL ACCESS PANELS CONTROL STRUCTURE IN CONFORMANCE WITH VOLUME III, PAGE 3-48 OF THE SWMM.  
10. THE STRUCTURAL DESIGN AND CALCULATIONS FOR THE DETENTION VAULT MUST BE APPROVED BY THE COF BUILDING DEPARTMENT AND THE LAND DISTURBANCE PERMIT ISSUED BY PUBLIC WORKS FOR THE VAULT CONSTRUCTION TO BEGIN.



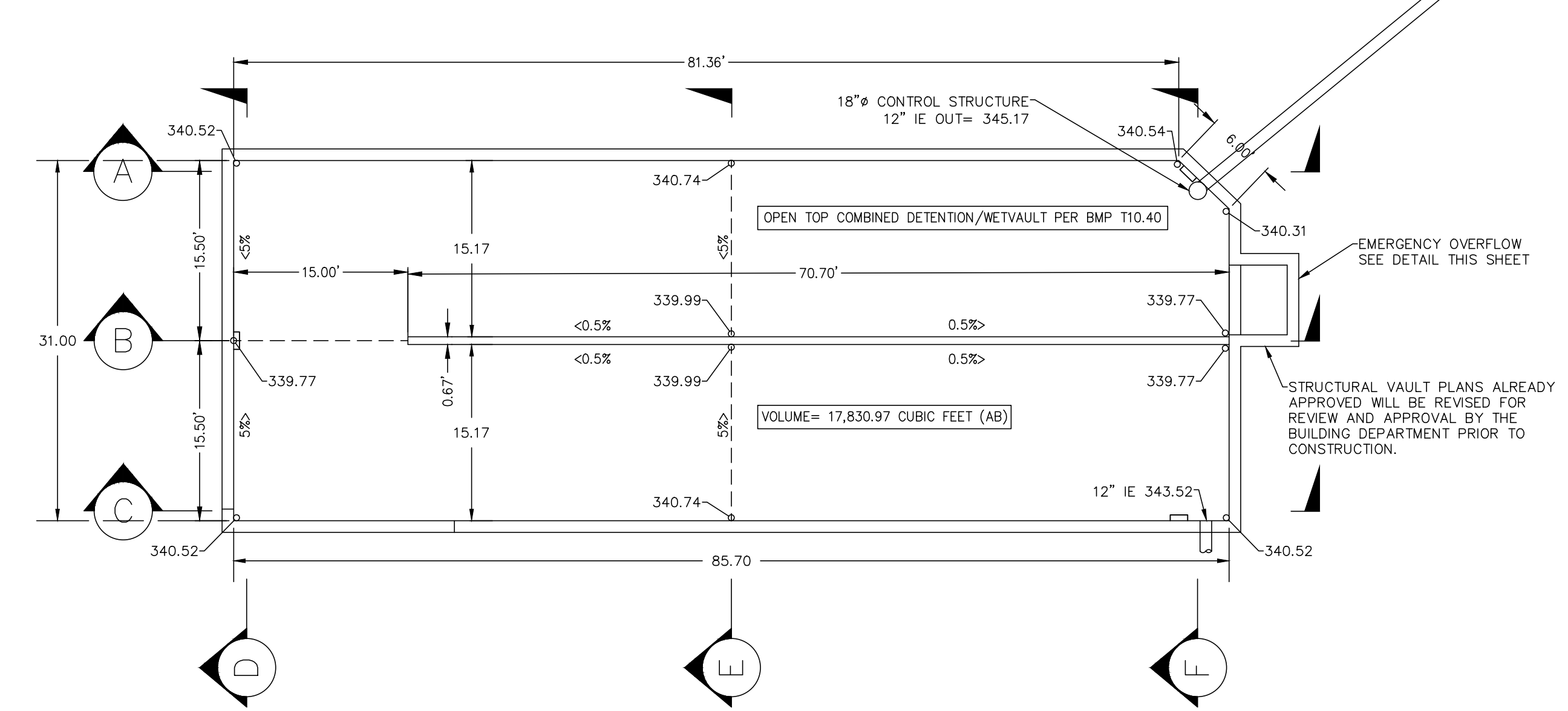
SECTION D-D  
1"=10'



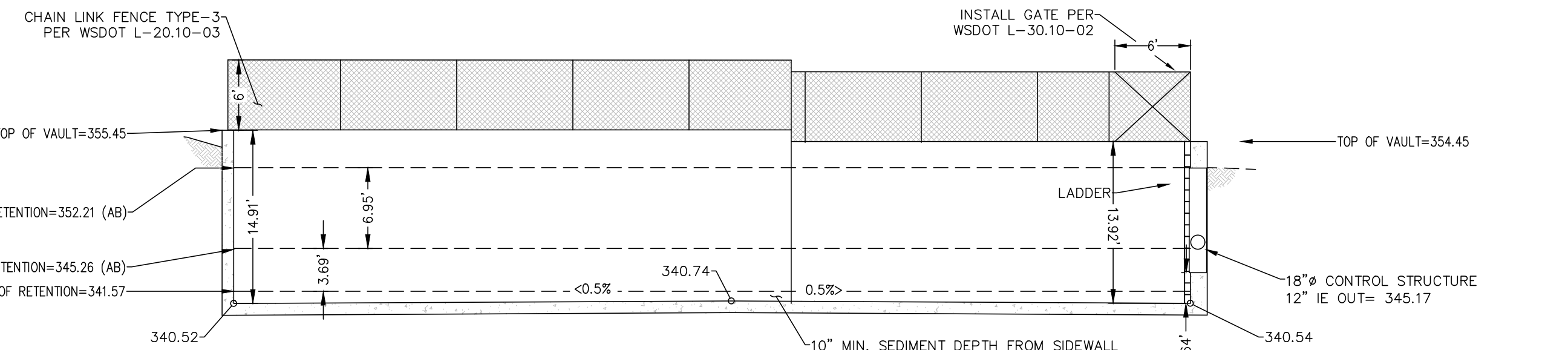
SECTION E-E  
1"=10'



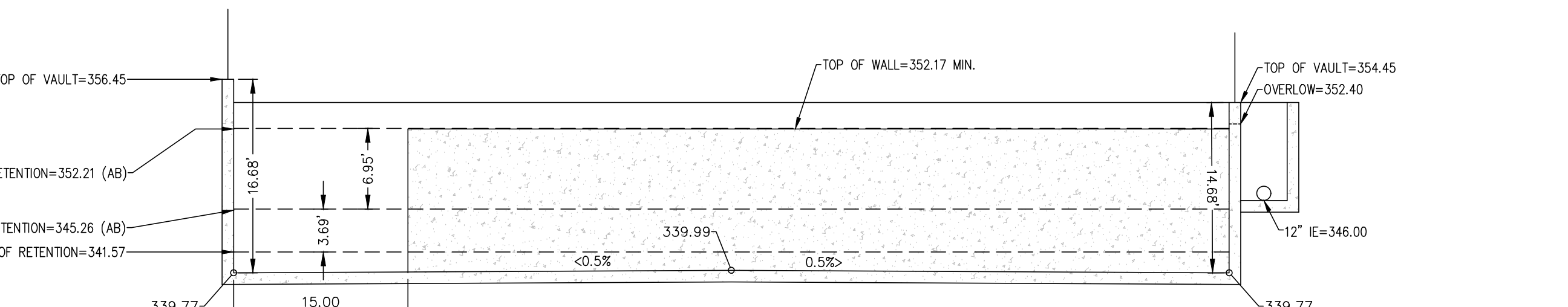
SECTION F-F  
1"=10'



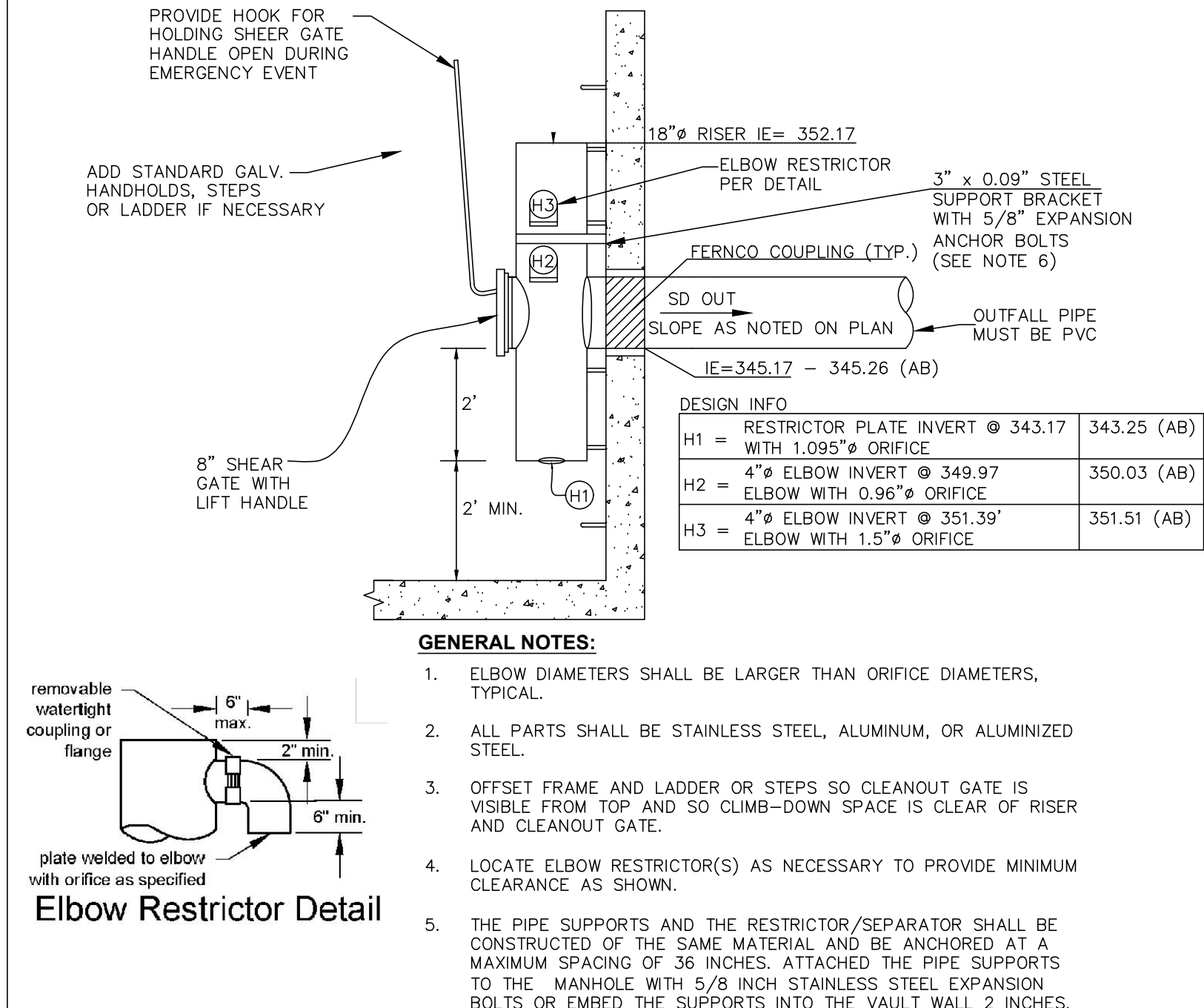
SECTION A-A  
1"=10'



SECTION B-B  
1"=10'

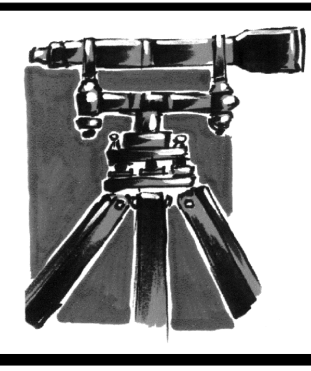


SECTION C-C  
1"=10'



CONTROL STRUCTURE - VAULT  
NTS

NO.	REVISION	BY	DATE



**LD&S, INC.**  
5160 INDUSTRIAL PL. #108  
FERNDAL, WA 98248  
PHONE 360-383-0620  
FAX 360-383-0639

PROJECT #: 2196  
DATE: 3/19/2025  
DESIGNED BY: RL  
DRAWN BY: JRF  
CHECKED BY: RL

**MATTHEW LYNCH**

6249 CHURCH RD  
FERNDAL, WA 98248

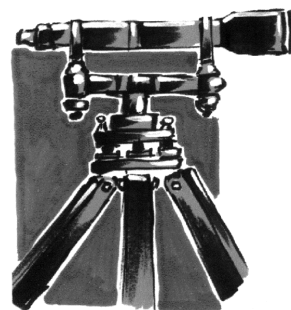


**OPEN TOP VAULT DETAILS**  
THORNTON HEIGHTS  
AF 390124-416472-0000 - 2583 THORNTON ST, FERNDALE, WASHINGTON  
A PORTION OF THE NE 1/4 OF THE NE 1/4 OF SECTION 24, TOWNSHIP 39 N., RANGE 1 E., W.M.

SHEET  
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NO.	REVISION	BY	DATE



**LDES, INC.**  
**5160 INDUSTRIAL PL. #108**  
**FERNDALE, WA 98248**  
**PHONE 360-383-0620**  
**FAX 360-383-0639**

PROJECT #:	2196
DATE:	3/19/2025
DESIGNED BY:	RL
DRAWN BY:	JRF
CHECKED BY:	RL

**MATTHEW  
LYNCH**

6249 CHURCH RD  
FERNDALE, WA 98248

**APPROVED**  
03/20/2025  
*[Signature]*  
Y: *[Signature]* For Kevin *PCN2*  
CITY OF FERDALE  
PUBLIC WORKS DEPARTMENT

## ROAD & STORM DETAILS

**THORNTON HEIGHTS**

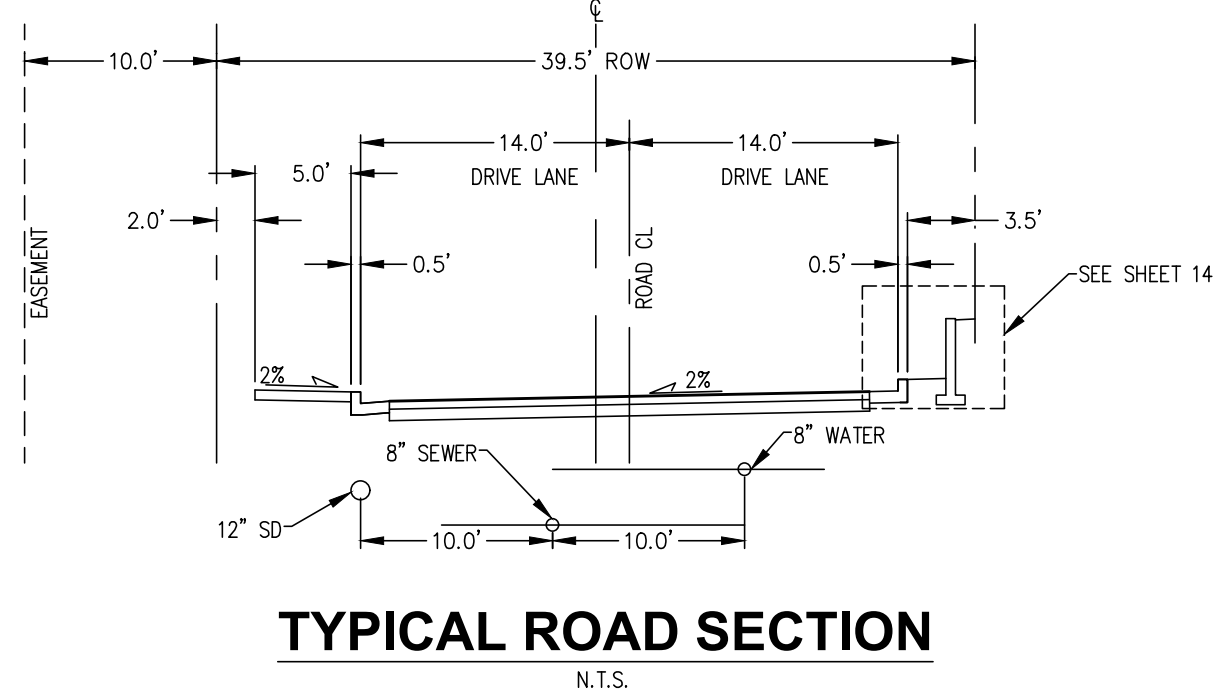
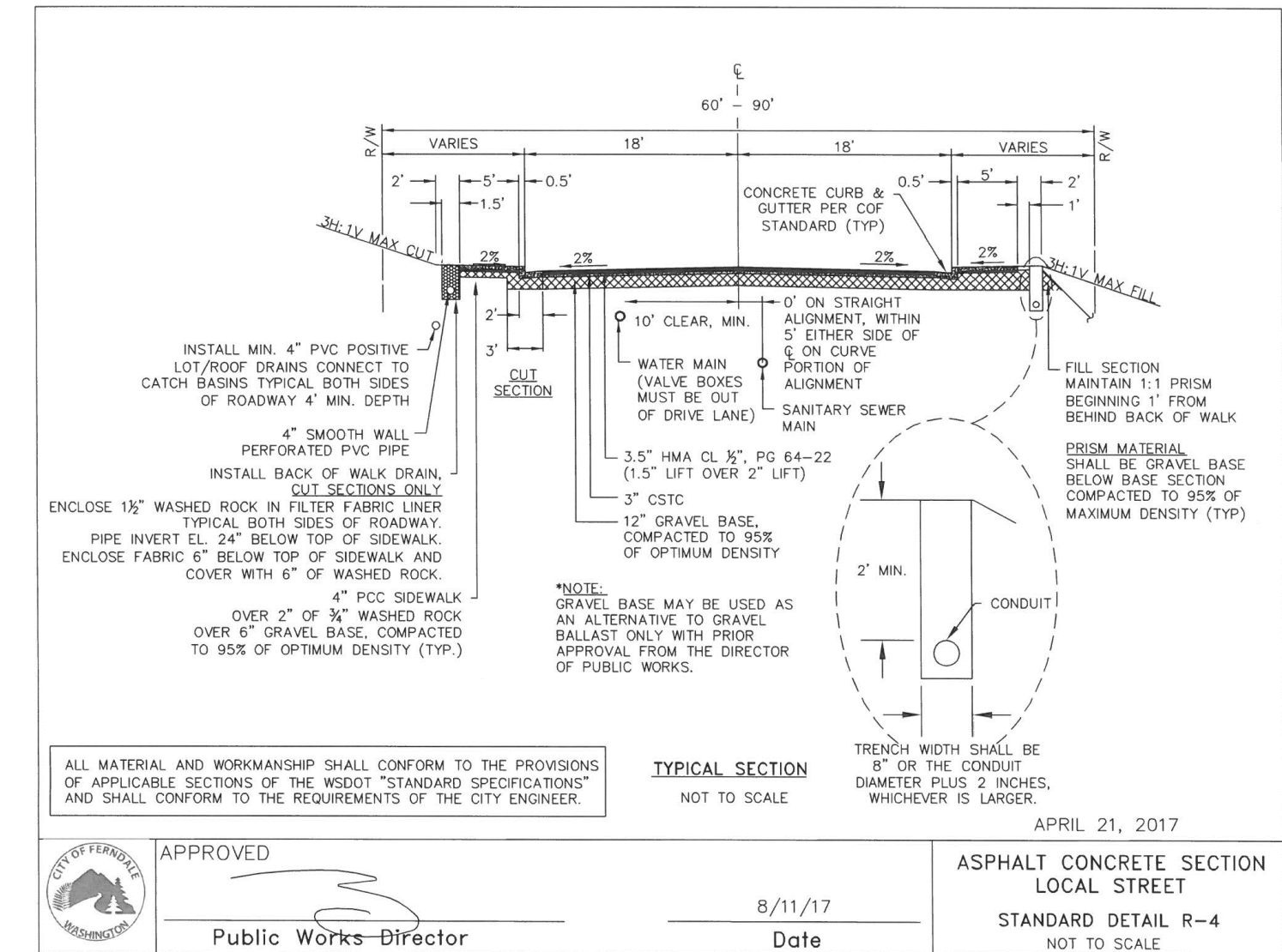
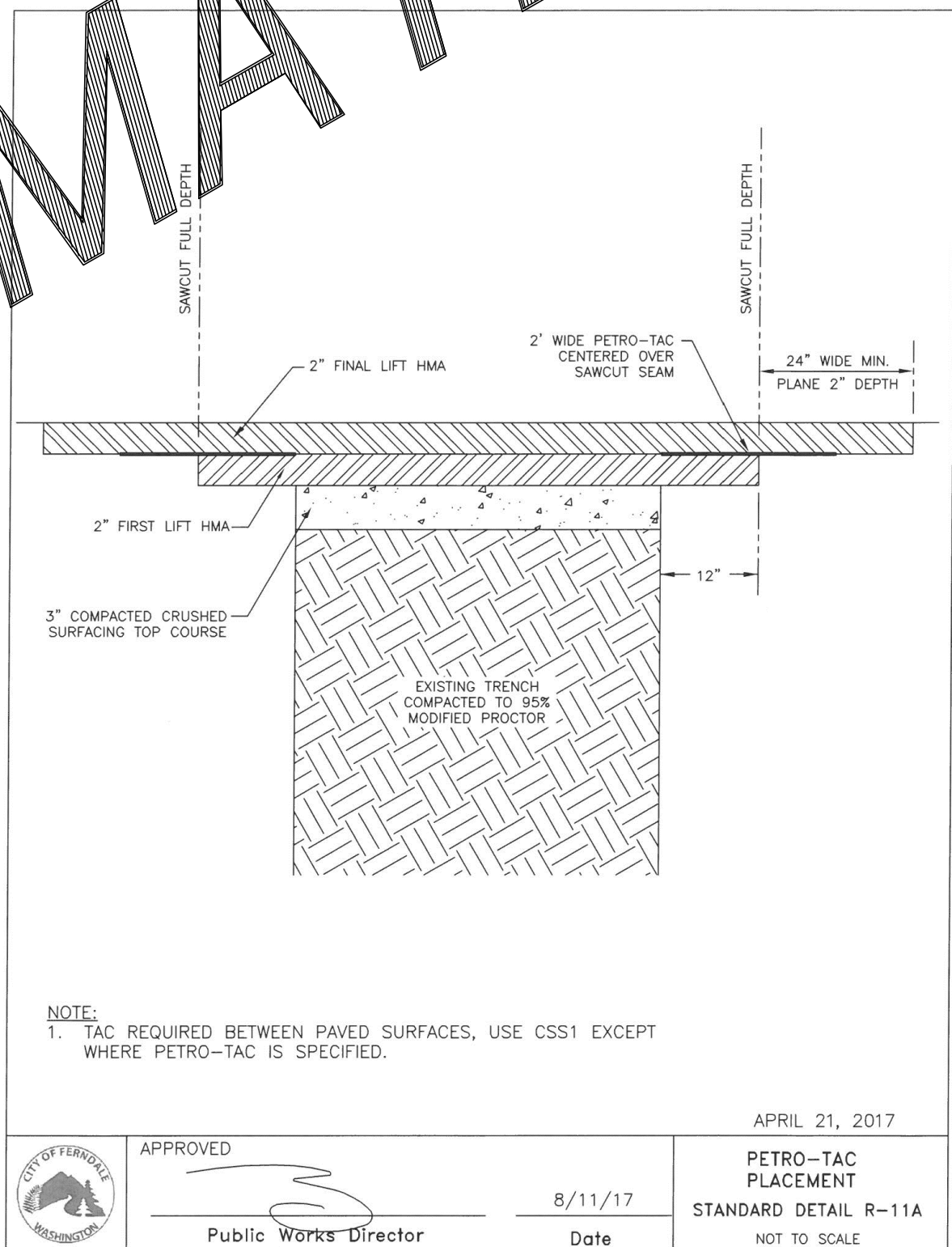
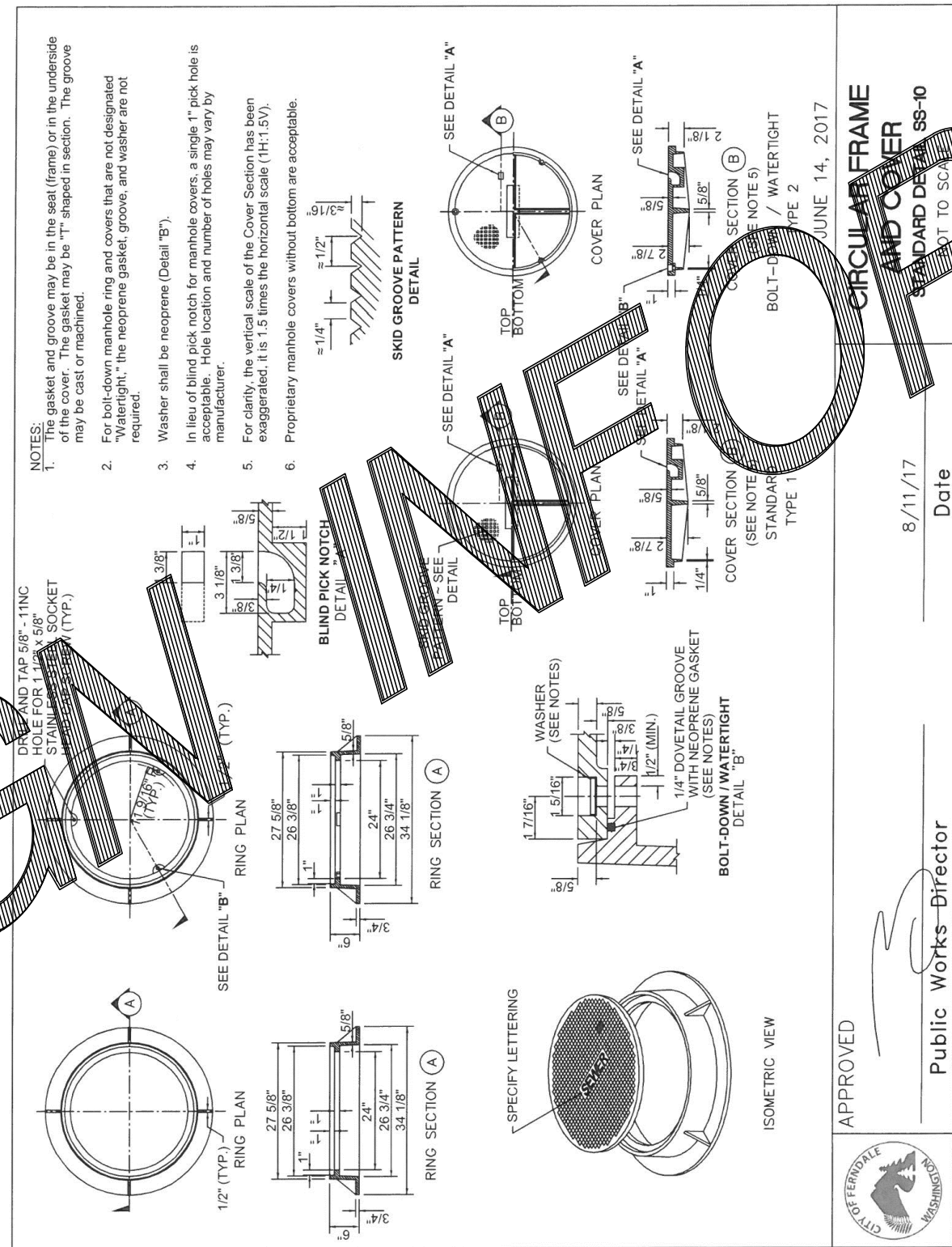
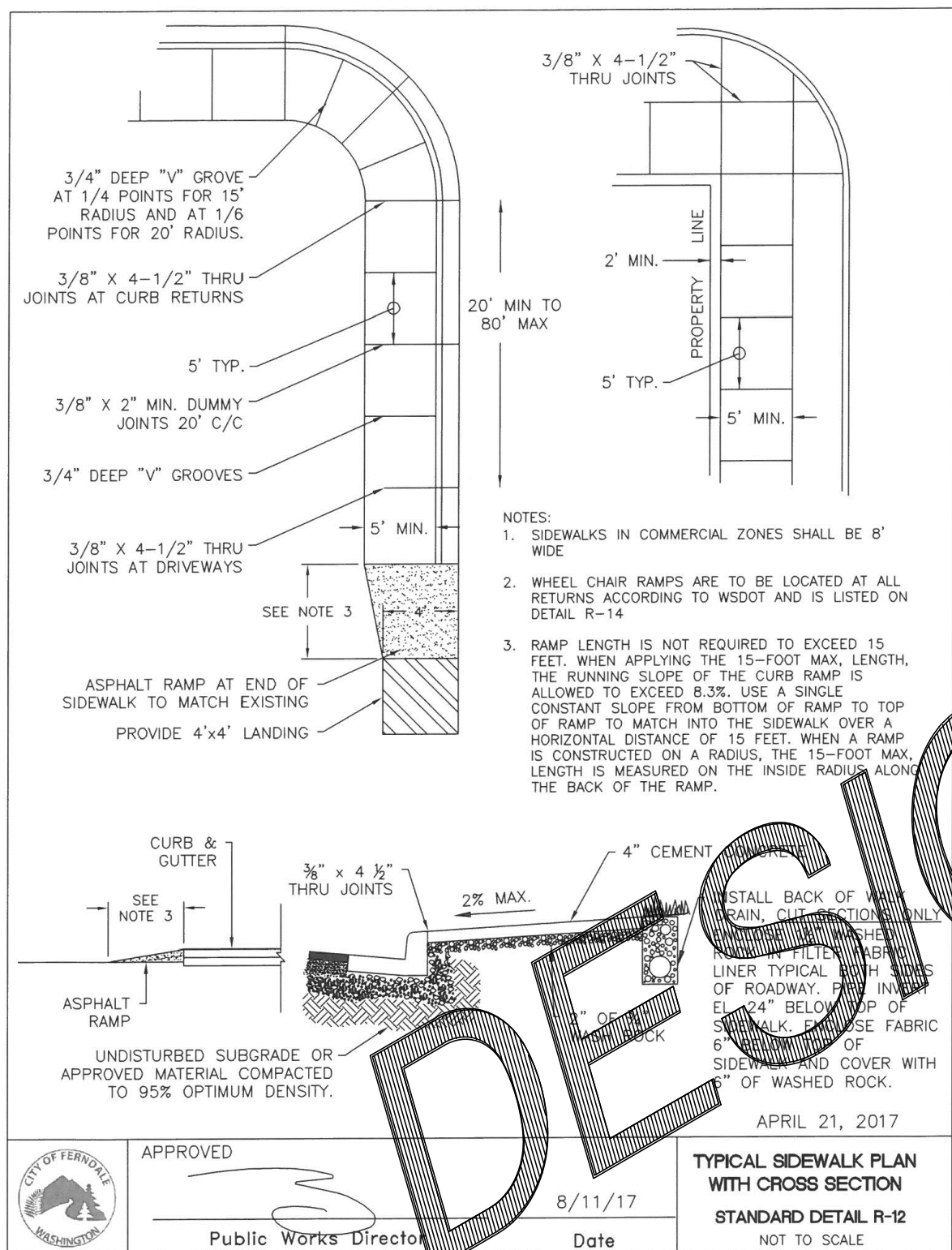
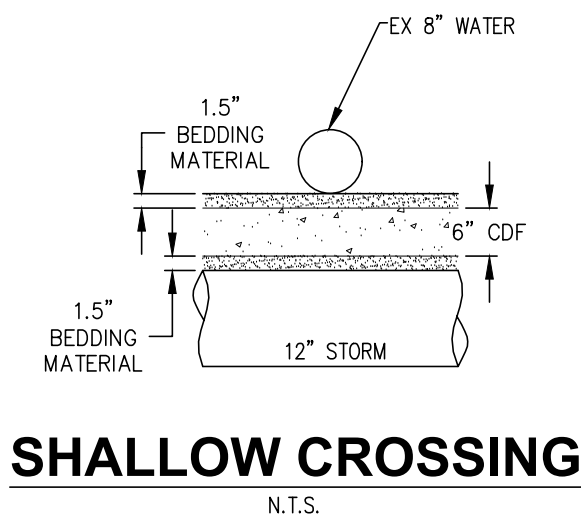
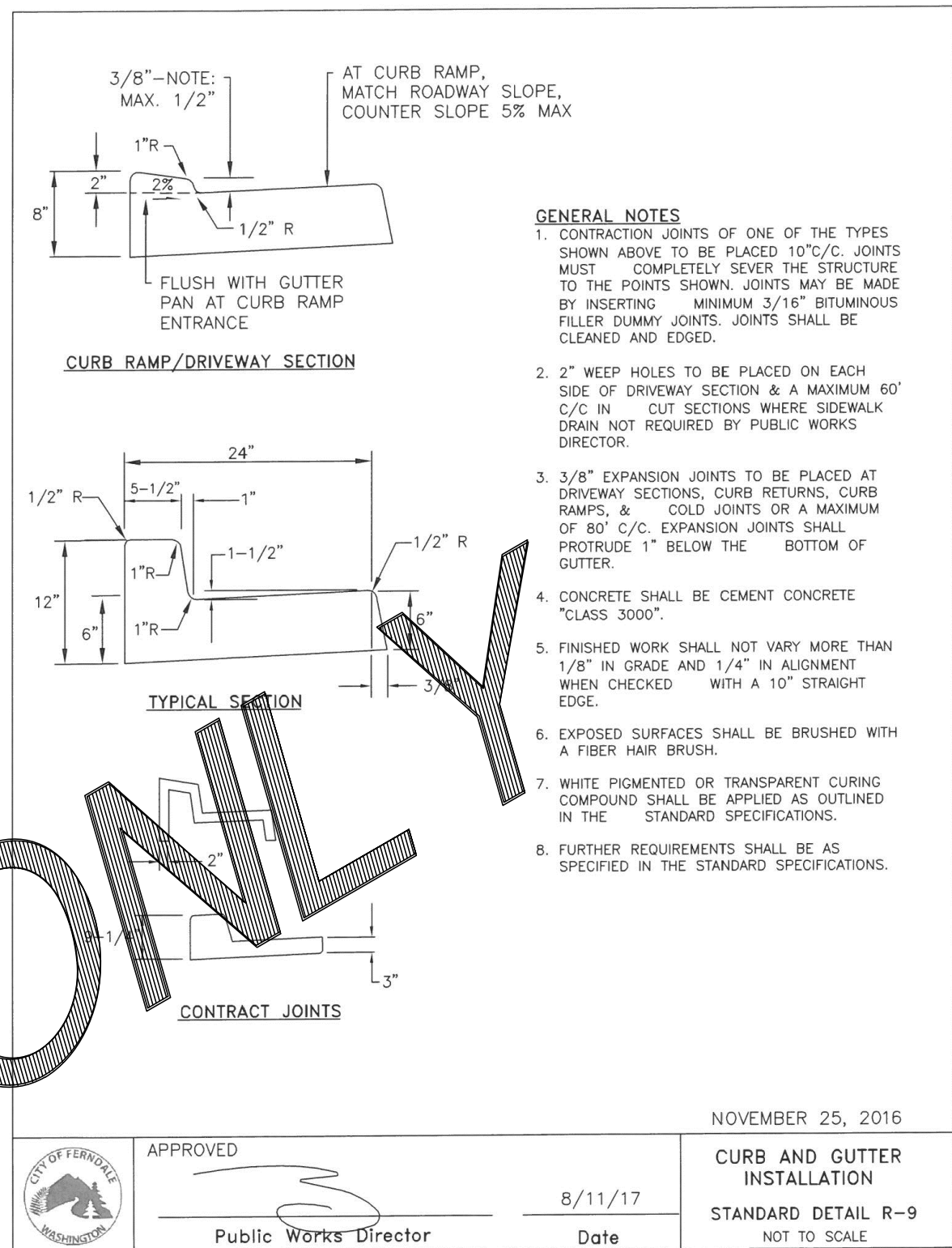
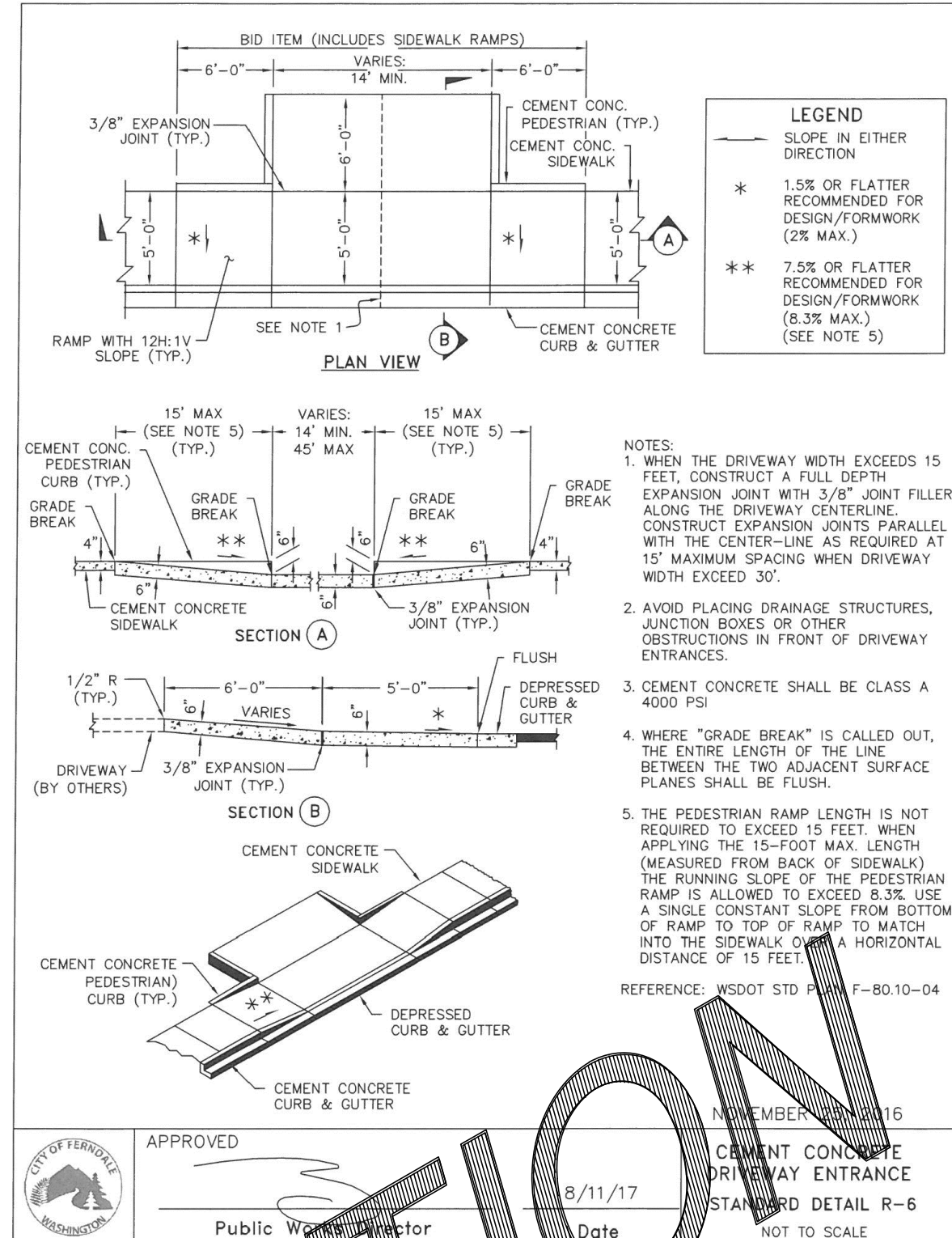
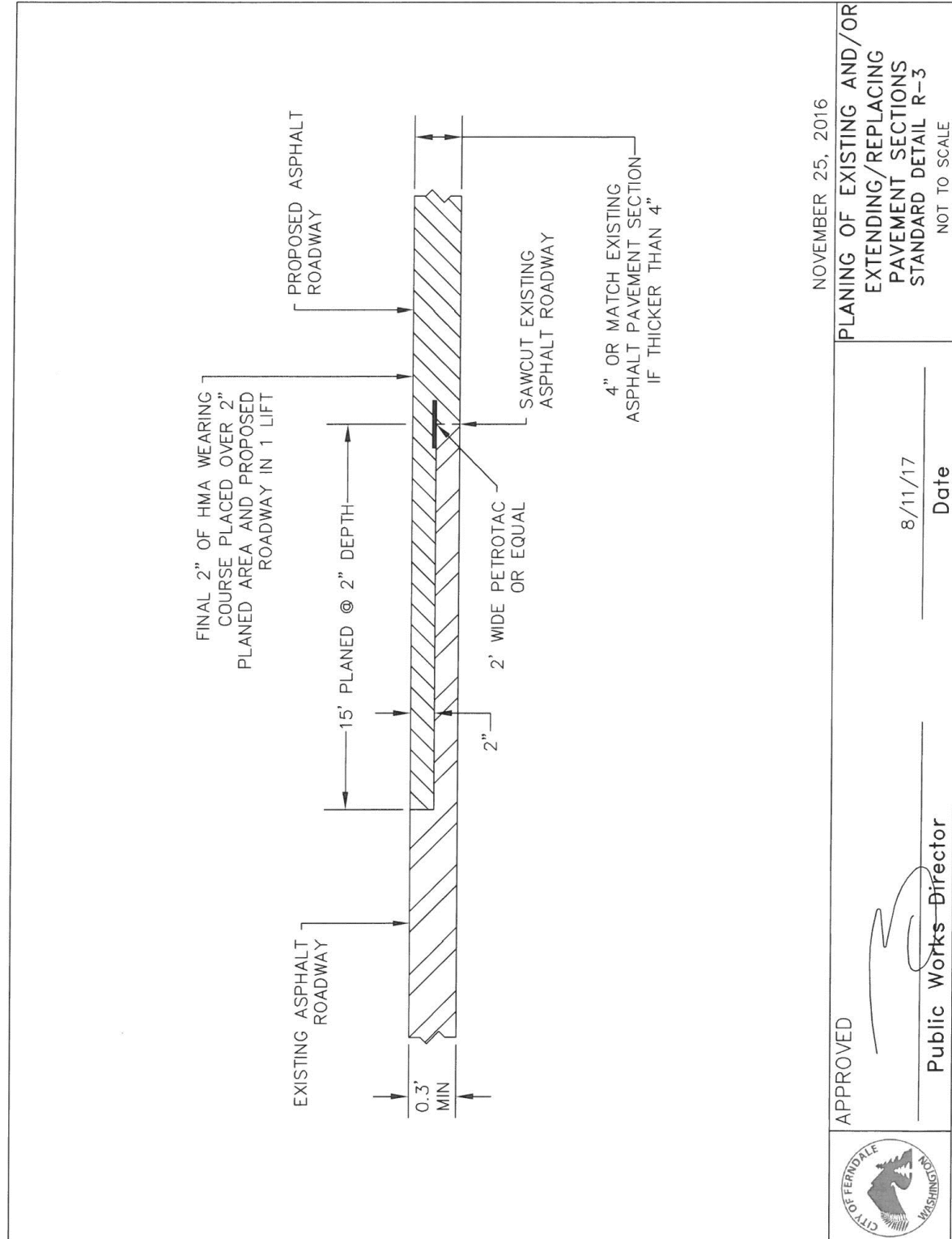
AF 390124-416472-0000 - 2593 THORNTON ST, FERNDAL, WASHINGTON  
A PORTION OF THE NE 1/4 OF THE NE 1/4 OF SECTION 24, TOWNSHIP39 N., RANGE 1 E., W.M.

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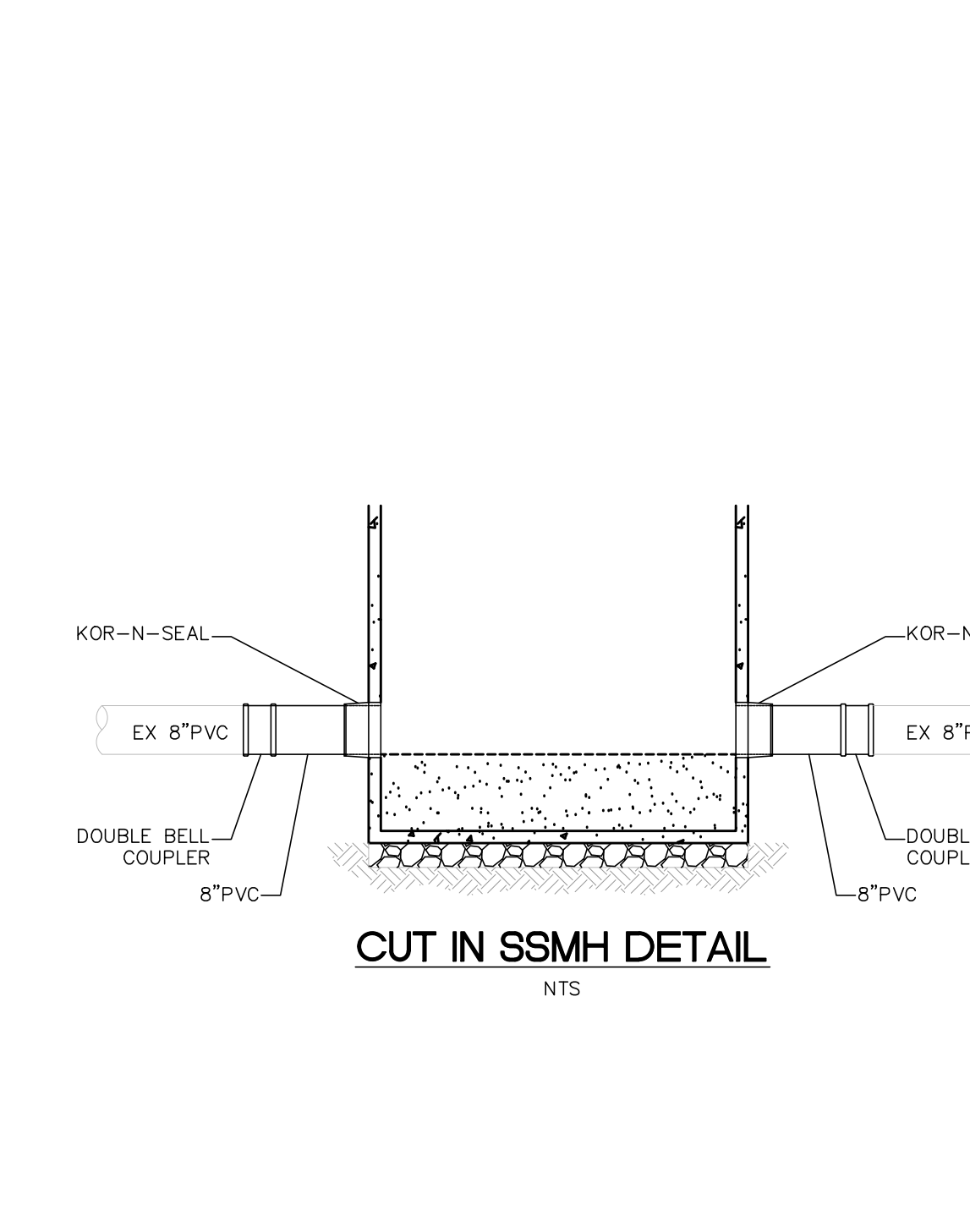
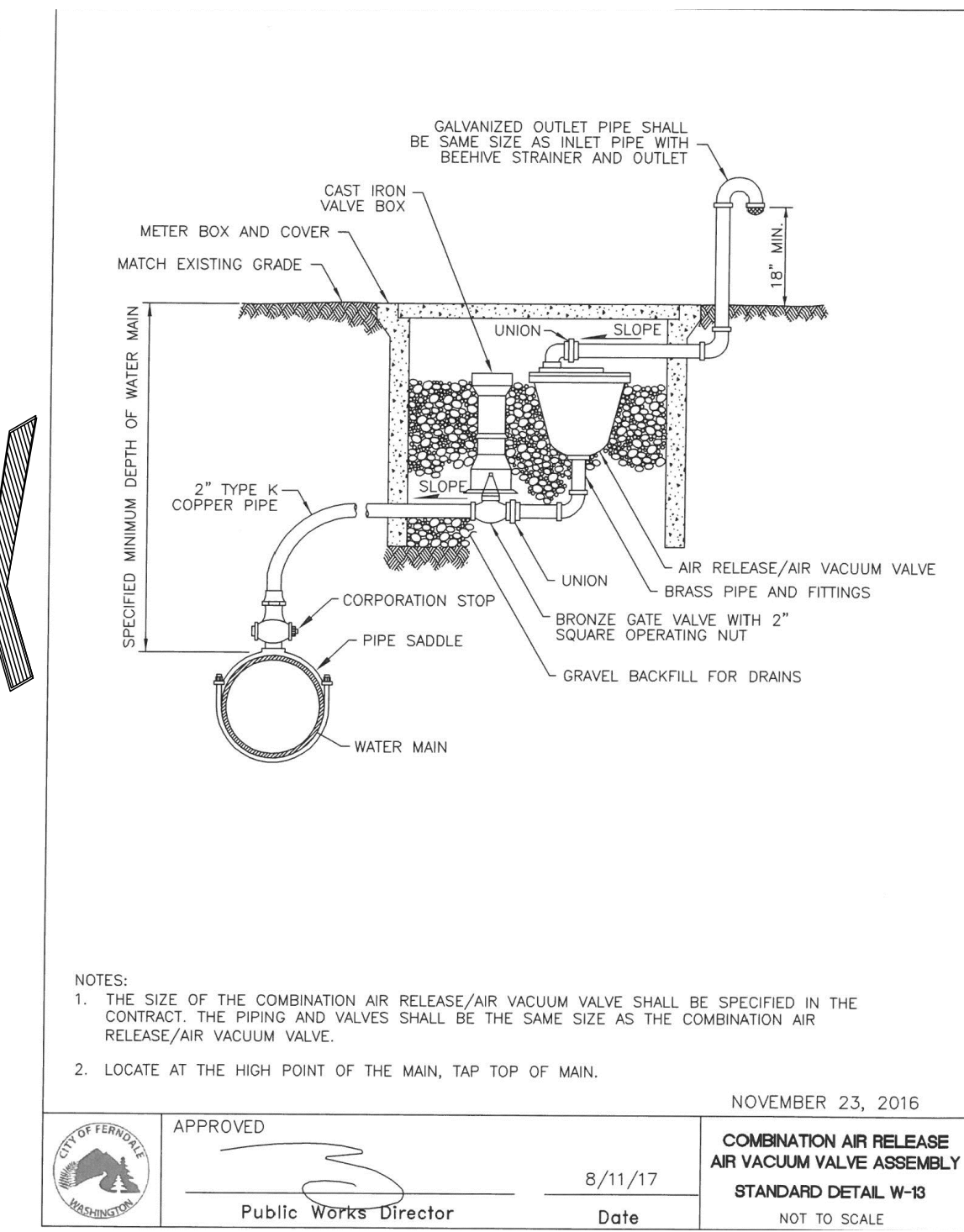
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OF

18

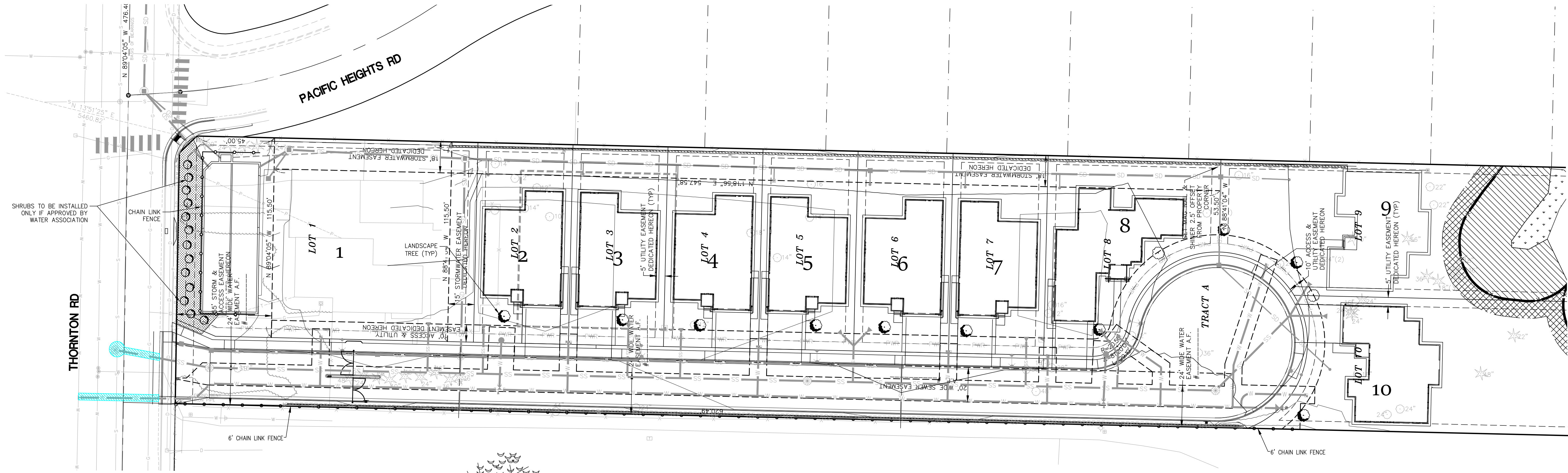
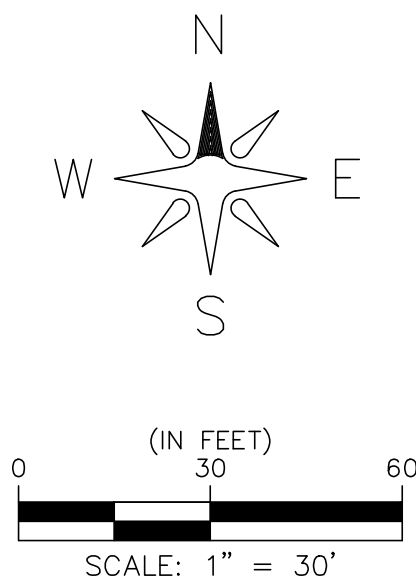
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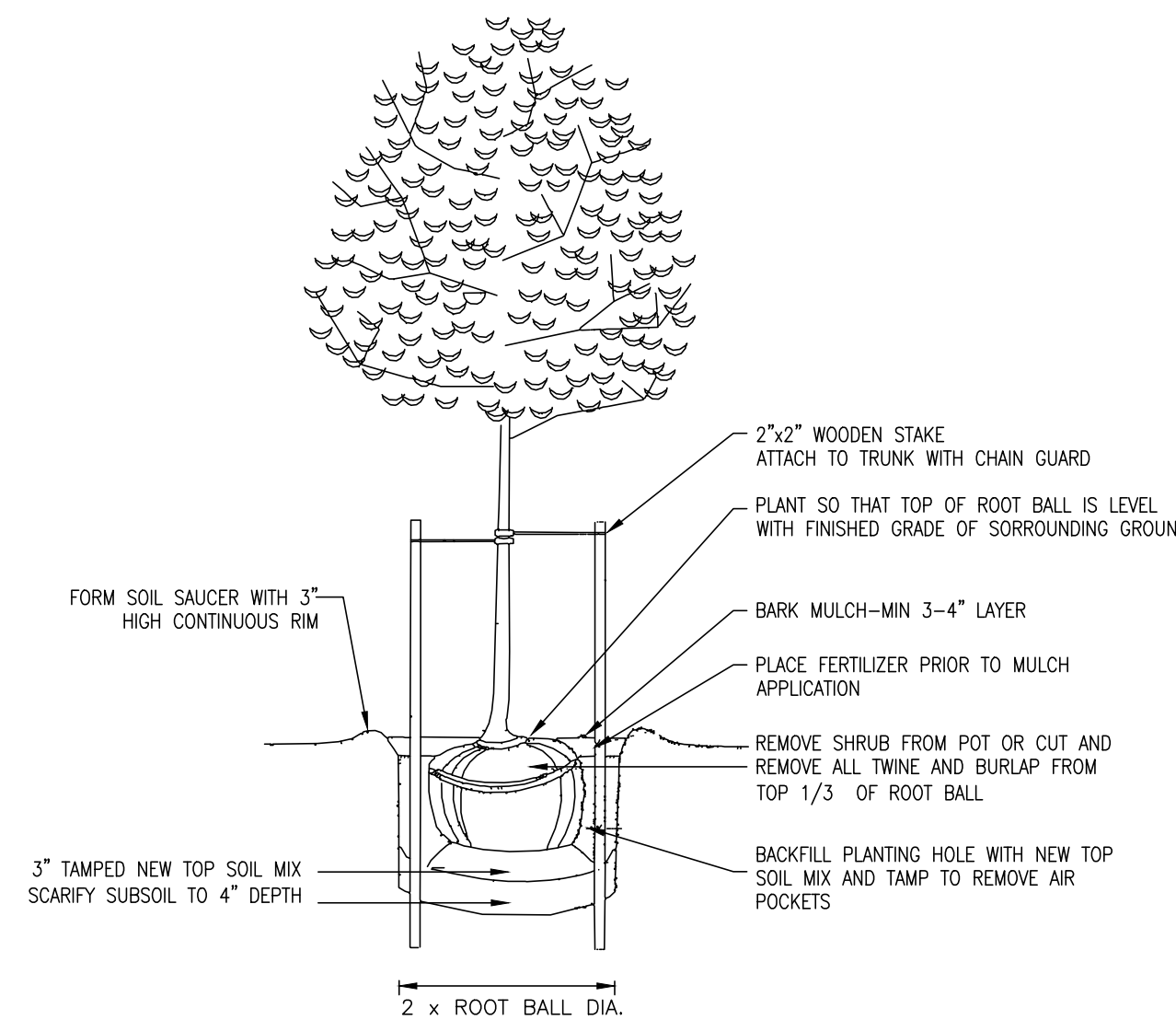


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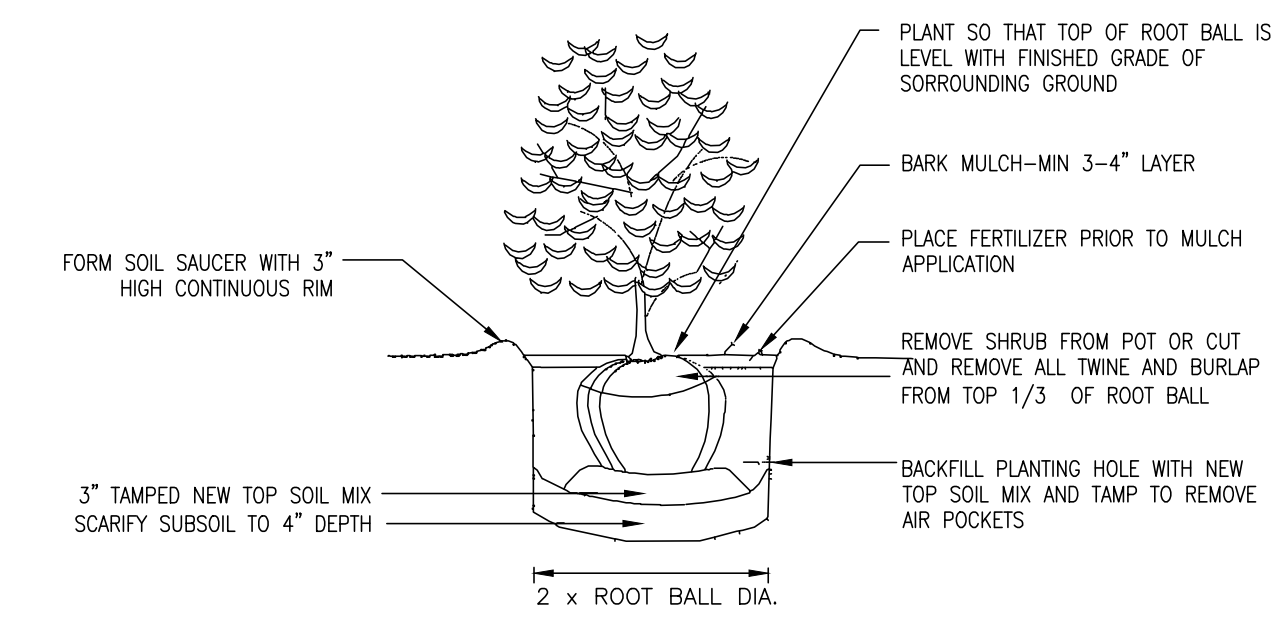




- LANDSCAPE LEGEND:**
- 2 1/2" CORAL BARK MAPLE
  - 18"-24" OTTO LUYKEN
  - GROUND COVER/ BARK MULCH

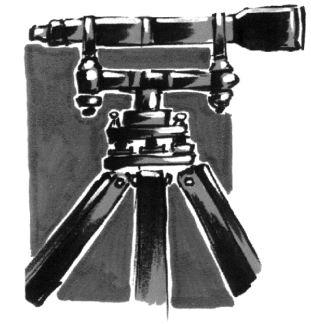


**1 TREE PLANTING DETAIL**  
SCALE: NTS



**2 SHRUB PLANTING DETAIL**  
SCALE: NTS

NO.	REVISION	BY	DATE



**LDES, INC.**  
5160 INDUSTRIAL PL. #108  
FERNDAL, WA 98248  
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CHECKED BY: RL

**MATTHEW LYNCH**  
  
6249 CHURCH RD  
FERNDAL, WA 98248



**LANDSCAPE PLAN**  
  
**THORNTON HEIGHTS**  
AF 390124-416472-0000 - 2593 THORNTON ST, FERNDAL, WASHINGTON  
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OF  
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