

SEC. 24, TWP. 39 N, R. 01 E OF W.M.
2717 THORNTON ROAD
FERNDAL, WA

THE MEADOWS

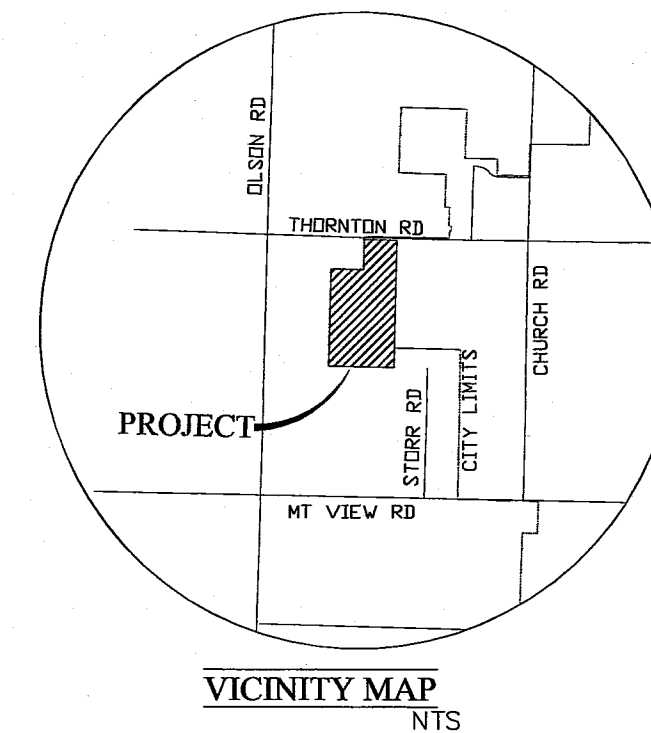
PHASE III

DEVELOPER:

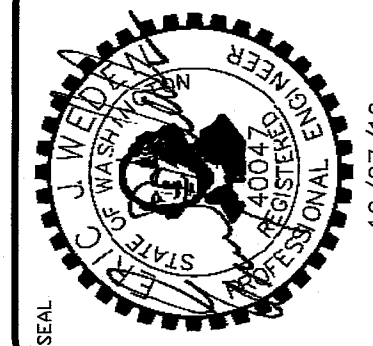
THE MEADOWS, L.L.C.
c/o WEDEN ENGINEERING, L.L.C.
2636 NUBGAARD RD
FERNDAL, WA 98248

ENGINEER:

WEDEN ENGINEERING, LLC
2636 NUBGAARD RD
FERNDAL, WA 98248

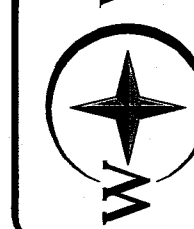


VICINITY MAP
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WEDEN ENGINEERING, LLC
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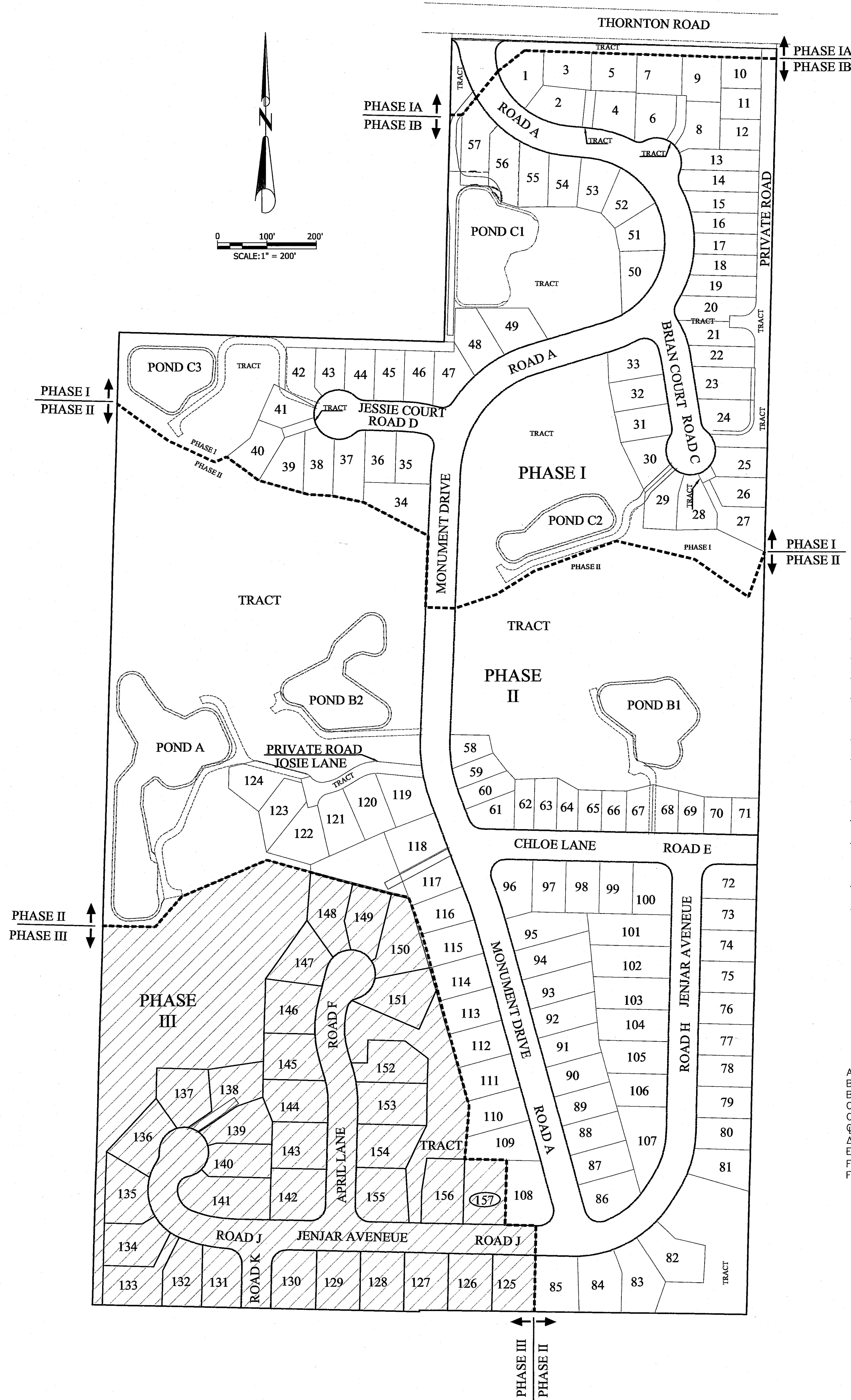
BY
CITY OF FERNDAL

No.	REVISIONS / SUBMISSIONS	DATE
1	AS-BUILT INFORMATION	10/13/16
2	REVISIONS PER CITY COMMENTS	05/28/15
3	REVISIONS PER CITY COMMENTS	04/17/15
1	REVISIONS PER CITY COMMENTS	03/19/15
2	REVIEWED BY EJM	BRAUN + KLS
	CAD FILE	PROJECT NO. 1308-03

THE MEADOWS - PHASE III
A PLANNED UNIT DEVELOPMENT
THORNTON ROAD
FERNDAL, WA
COVER SHEET

DATE: 01/19/2015
DRAWING No.

1 of 29



LEGEND

EXISTING	PROPOSED	EXISTING	PROPOSED
P	UP	CULVERT	CULVERT
P	P	FIRE HYDRANT	FIRE HYDRANT
CDM	CDM	CATCH BASIN	CATCH BASIN
G	G	MANHOLE	MANHOLE
D	SD	VALVE	VALVE
S	UD	CURB STOP	CURB STOP
W	SS	WATER BLOWOFF	WATER BLOWOFF
	WA	AIR/VACUUM RELEASE	AIR/VACUUM RELEASE
	SF	VALVE ASSEMBLY	VALVE ASSEMBLY
		POWER VAULT	POWER VAULT
		TELEPHONE VAULT	TELEPHONE VAULT
		TELEPHONE RISER	TELEPHONE RISER
		SURFACE MONUMENT	SURFACE MONUMENT
		TREES	TREES
		SIGN	SIGN
		RIP RAP	RIP RAP
		UTILITY POLE	UTILITY POLE
		GUY WIRE	GUY WIRE
		LIGHT POLE	LIGHT POLE
		LUMINAIRE & J-BOX	LUMINAIRE & J-BOX
		REMOVABLE BOLLARDS	REMOVABLE BOLLARDS

(*) HAS BEEN ADDED TO EXISTING UTILITY LABELS TO DESIGNATE BEING INSTALLED DURING PRIOR CONSTRUCTION OF 2007, SEE UTILITY AND PLAN & PROFILE SHEETS.

ARV AIR RELEASE VALVE
BC BACK OF CURB
BOV BLOW-OFF VALVE
CPEP CORRUGATED POLYETHYLENE PIPE
CV CULVERT
CL CENTERLINE
DL DELTA
EX EXISTING
F/G FINISH GRADE
FH FIRE HYDRANT

ABBREVIATIONS

GV GATE VALVE
HWE HIGH WATER ELEVATION
INV INVERT
L LENGTH
MOC MIDPOINT OF CURVE
POT POINT ON CURVE
NWE NORMAL WATER ELEVATION
PC POINT OF CURVE
PT POINT OF TANGENCY
R RADIUS
RJ RESTRAINING JOINT

SD STORM DRAIN
SDCB STORM CATCH BASIN
SDMH STORM MANHOLE
SS SANITARY SEWER
SSMH SANITARY MANHOLE
STA STATION
WA WATER

TAX PARCELS:

390124 264438, 390124 228456,
390124 204332

LEGAL DESCRIPTION:

A PORTION OF THE NORTHEAST QUARTER OF THE NORTHWEST QUARTER AND THE SOUTHEAST QUARTER OF THE NORTHWEST QUARTER OF SECTION 24, TOWNSHIP 39 NORTH, RANGE 1 EAST OF W.M. CITY OF FERNDAL, WHATCOM COUNTY, WASHINGTON

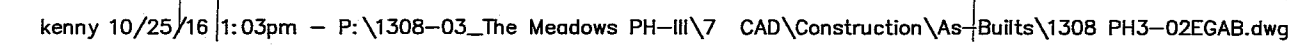
DESIGN INFORMATION HAS BEEN REVISED WITH A STRIKEOUT AND AS-BUILT INFORMATION ADDED.

I HEREBY CERTIFY THAT THE IMPROVEMENTS IN THE MEADOWS, PHASE III HAS BEEN INSPECTED BY WEDEN ENGINEERING, LLC 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 PRACTICES

ERIC J. WEDEN

I CERTIFY THAT THE LOCATIONS, ELEVATIONS, DEPTHS, AND AS-BUILT COMMENTS REFLECTION MATERIALS ACTUALLY USED DURING CONSTRUCTION ACCURATELY REFLECT EXISTING FIELD CONDITIONS AS DETERMINED BY ME OR UNDER MY DIRECT SUPERVISION ON THE DATE:

JOSHUA VICTOR DAHM



1' CONTOUR INTERVAL IS SHOWN

SEC. 24, TWP. 39 N, R. 01 E OF W.M.

0 50' 100'
SCALE: 1"=50'



— SF — SILT FENCE

FOR EROSION CONTROL DETAILS,
SEE SHEET 20

ORANGE CONSTRUCTION FENCING
WILL BE ERECTED ALONG THE
EDGE OF ALL WETLANDS .

SILT FENCE WILL BE PLACED
ALONG THE TOE OF ANY
STOCKPILE AREAS.
STOCKPILE AREAS WILL BE
COVERED.

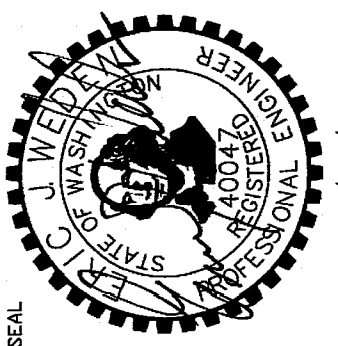
PHASE III
↑
PHASE II
↓

CONSTRUCTION ENTRANCE.
PROVIDE & MAINTAIN FOR
STABILIZED CONSTRUCTION
ENTRANCE.



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(360) 380-1363 (360) 384-3615 Fx
email: info@wedenengineering.com



APPROVED

DEC 12 2016

BY

CITY OF FERNDALE

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1	REVIEWED	EJW
1	DRAWN	KLS
1	CAD FILE	PROJECT NO. 1308-03

AS-BUILTS

PROJECT TITLE
**THE MEADOWS - PHASE III
A PLANNED UNIT DEVELOPMENT
THORNTON ROAD
FERNDALE, WA**

DRAWING TITLE
SWPPP- EROSION CONTROL PLAN

DATE: 01/19/2015

DRAWING No.

4 of 29

006091 004 12/23/16 SH

STORMWATER POLLUTION PREVENTION PLAN (SWPPP):

THIS STORMWATER POLLUTION PREVENTION PLAN IS PROVIDED IN ACCORDANCE WITH THE TERMS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT FOR CONSTRUCTION ACTIVITIES FOR THIS PROJECT. THE CONTRACTOR IS ADVISED THAT THE PROJECT AREA DRAINS TO WETLANDS AND/OR STATE WATERS AND THAT THE CONTRACTOR IS RESPONSIBLE TO PROTECT THE RECEIVING WATERS FROM DELETERIOUS EFFECTS OF CONSTRUCTION. THE CONTRACTOR IS REQUIRED TO HAVE A COPY OF THE NPDES PERMIT AS WELL AS THE SWPPP ON SITE AT ALL TIMES. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING EROSION CONTROL MEASURES SHOWN OR DESCRIBED IN THE CONTRACT DOCUMENTS AND ANY ADDITIONAL MEASURES THAT MAY BE REQUIRED TO CONTROL EROSION AND SEDIMENT AT THE CONSTRUCTION SITE AND TO PREVENT VIOLATION OF SURFACE WATER QUALITY, GROUND WATER QUALITY, OR SEDIMENT MANAGEMENT STANDARDS. EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT THE COURSE OF CONSTRUCTION AND UNTIL ALL DISTURBED EARTH IS STABILIZED IN FINISH GRADES. THE FOLLOWING DESCRIBES HOW THE CONSTRUCTION SWPPP ADDRESSES EACH OF THE 12 REQUIRED ELEMENTS. REFER TO THESE PLANS FOR DRAWINGS OF THE PROJECT, VICINITY MAP, SITE MAP, CONVEYANCE SYSTEMS, EROSION AND SEDIMENT CONTROL MEASURES, AND EROSION AND SETTLEMENT CONTROL DETAILS.

ELEMENT #1: PRESERVE VEGETATION/MARK CLEARING LIMITS

1. PRIOR TO BEGINNING LAND DISTURBING ACTIVITIES (INCLUDING CLEARING AND GRADING) CLEARLY MARK ALL CLEARING LIMITS AND TREES THAT ARE TO BE PRESERVED WITHIN THE CONSTRUCTION AREA AS SHOWN IN THE DRAWINGS.
 2. SILT FENCE, GEOTEXTILE ENCASED BARRIERS, CONSTRUCTION FENCE, ORANGE PLASTIC FENCE, OR OTHER APPROVED MEASURES MAY BE USED TO MARK THE CLEARING LIMITS AT THE CONTRACTOR'S OPTION.
 3. THE DUFF LAYER, NATIVE TOPSOIL, AND NATURAL VEGETATION SHALL BE RETAINED IN AN UNDISTURBED STATE TO THE MAXIMUM DEGREE PRACTICABLE.
- SUGGESTED BMPs/BMPs TO BE USED:
- BMP C101: PRESERVING NATIVE VEGETATION
BMP C103: HIGH VISIBILITY PLASTIC OR METAL FENCE
BMP C104: STAKE AND WIRE FENCE
BMP C233: SILT FENCE

ELEMENT #2: ESTABLISH CONSTRUCTION ACCESS

1. INSTALL CONSTRUCTION VEHICLE ACCESS PER DOE MANUAL BMP C105. ALL ACCESS/EXIT POINTS SHALL BE STABILIZED WITH QUARRY SPALLS, CRUSHED ROCK OR OTHER EQUIVALENT BMP, TO MINIMIZE THE TRACKING OF SEDIMENT ONTO PUBLIC ROADS.
 2. IF THE STABILIZED CONSTRUCTION ENTRANCE IS NOT EFFECTIVE IN PREVENTING SEDIMENT FROM BEING TRACKED ONTO PUBLIC ROADS, WHEEL WASH OR TIRE BATHS SHALL BE LOCATED ON SITE.
 3. IF SEDIMENT IS TRACKED OFF SITE, PUBLIC ROADS SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY, OF MORE FREQUENTLY DURING WET WEATHER. SEDIMENT SHALL BE REMOVED FROM ROADS BY SHOVELING OR PICKUP SWEEPING AND SHALL BE TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.
 4. STREET WASHING IS ALLOWED ONLY AFTER SEDIMENT IS REMOVED AS DESCRIBED ABOVE. STREET WASH WASTEWATER SHALL BE CONTROLLED BY PUMPING BACK ON SITE OR OTHERWISE BE PREVENTED FROM DISCHARGING INTO SYSTEMS TRIBUTARY TO WATERS OF THE STATE.
- SUGGESTED BMPs/BMPs TO BE USED:
- BMP C105: STABILIZED CONSTRUCTION ENTRANCE
BMP C106: WHEEL WASH

ELEMENT #3: CONTROL FLOW RATES

1. PROPERTIES AND WATERWAYS DOWNSTREAM FROM DEVELOPMENT SITES SHALL BE PROTECTED FROM EROSION DUE TO INCREASES IN VELOCITY AND PEAK VOLUMETRIC FLOW RATE OF STORMWATER RUNOFF FROM THE PROJECT SITE.
- SUGGESTED BMPs/BMPs TO BE USED:
- BMP C208: TRIANGULAR SILT DIKE
BMP C235: STRAW WATTLES
BMP C240: SEDIMENT TRAP

ELEMENT #4: INSTALL SEDIMENT CONTROLS

1. THE DUFF LAYER, NATIVE SOIL, AND NATURAL VEGETATION SHALL BE RETAINED IN AN UNDISTURBED STATE TO THE MAXIMUM EXTENT PRACTICABLE.
 2. SEDIMENT CONTROL BMPs SHALL BE CONSTRUCTED AS ONE OF THE FIRST STEPS IN GRADING. THESE BMPs SHALL BE FUNCTIONAL BEFORE OTHER LAND DISTURBING ACTIVITIES TAKE PLACE.
 3. PRIOR TO LEAVING THE CONSTRUCTION SITE, STORMWATER RUNOFF FROM DISTURBED AREAS SHALL PASS THROUGH AN APPROPRIATE SEDIMENT REMOVAL BMP, BUT MUST MEET THE FLOW CONTROL PERFORMANCE STANDARD ELEMENT #3.
- SUGGESTED BMPs/BMPs TO BE USED:
- BMP C220: STORM DRAIN INLET PROTECTION
BMP C233: SILT FENCE
BMP C234: VEGETATED STRIP
BMP C235: STRAW WATTLES
BMP C240: SEDIMENT TRAP

ELEMENT #5: STABILIZE SOILS

1. EXPOSED AND UNWORKED SOILS SHALL BE STABILIZED BY APPLICATION OF EFFECTIVE BMPs THAT PROTECT THE SOIL FROM EROSIIVE FORCES OF RAINDROPS, WATER, AND WIND.
 2. TO PREVENT EROSION, NO SOILS SHALL REMAIN EXPOSED AND UNWORKED FOR MORE THAN THE TIME PERIODS SET FORTH BELOW:

DURING THE WET SEASON (OCTOBER 1-APRIL 30): 2 DAYS
DURING THE DRY SEASON (MAY 1-SEPT. 30): 7 DAYS
THIS STABILIZATION REQUIREMENT APPLIES TO ALL SOILS ON SITE, WHETHER AT FINAL GRADE OF NOT. THESE TIMES MAY BE ADJUSTED BY THE LOCAL PERMITTING AUTHORITY IF IT CAN BE SHOWN THAT SITE CONDITIONS OR THE AVERAGE TIME BETWEEN STORM EVENTS JUSTIFIES A DIFFERENT STANDARD.
 3. SOILS SHALL BE STABILIZED AT THE END OF THE SHIFT BEFORE A HOLIDAY OR WEEKEND IF NEEDED BASED ON THE WEATHER FORECAST.
 4. SOIL STOCKPILES SHALL BE STABILIZED FROM EROSION, PROTECTED WITH SEDIMENT TRAPPING MEASURES, AND WHERE POSSIBLE, BE LOCATED AWAY FROM STORM DRAIN INLETS, WATERWAYS, AND DRAINAGE CHANNELS.
 5. APPLICABLE BMPs INCLUDE, BUT ARE NOT LIMITED TO: TEMPORARY AND PERMANENT SEEDING, SODDING, MULCHING, PLASTIC COVERING, EROSION CONTROL FABRICS AND MATTING, SOIL APPLICATION OF POLYACARLYAMIDE (PAM), EARLY APPLICATION OF GRAVEL BASE ON AREAS TO BE PAVED AND DUST CONTROL. SELECT SOIL STABILIZATION MEASURES SHALL BE APPROPRIATE FOR THE TIME OF YEAR, SITE CONDITIONS, ESTIMATED DURATION OF USE, AND THE POTENTIAL WATER QUALITY IMPACTS.
 6. REMOVE ALL TESC MEASURES AS SOON AS PRACTICAL AFTER ESTABLISHMENT OF UNIFORM GRASS GROWTH OR INSTALLATION OF OTHER PERMANENT STABILIZATION MEASURES. REPAIR ANY DAMAGE TO STABILIZED SURFACES AFTER REMOVAL OF TESC MEASURES.
- SUGGESTED BMPs/BMPs TO BE USED:
- BMP C120: TEMPORARY AND PERMANENT SEEDING
BMP C121: MULCHING
BMP C122: NETS AND BLANKETS
BMP C123: PLASTIC AND COVERING
BMP C140: DUST CONTROL

ELEMENT #6: PROTECT SLOPES

1. DESIGN, CONSTRUCT, AND PHASE CUT AND FILL SLOPES IN A MANNER THAT WILL MINIMIZE EROSION. APPLICABLE PRACTICES INCLUDE, BUT ARE NOT LIMITED TO, REDUCING CONTINUOUS LENGTH OF SLOPE WITH TERRACING AND DIVERSIONS, REDUCING SLOPE STEEPNESS, AND ROUGHENING SLOPE SURFACES (E.G. TRACK WALKING).
 2. STORMWATER OR GROUNDWATER FROM OFF SITE SHALL BE DIVERTED AWAY FROM SLOPES AND DISTURBED AREAS WITH INTERCEPTOR DIKES, PIPES, AND/OR SWALES. OFF-SITE STORMWATER SHOULD BE MANAGED SEPARATELY FROM STORMWATER GENERATED ON THE SITE.
 3. DO NOT CLEAR AND GRUB SLOPES GREATER THAN 4 (HORIZONTAL):1 (VERTICAL) UNLESS FURTHER WORK RESULTING IN STABILIZATION OF THE SLOPES TO BE CLEARED AND GRUBBED IS SCHEDULED.
 4. EXCAVATED MATERIAL SHALL BE PLACE ON THE UPHILL SIDE OF TRENCHES, CONSISTENT WITH SAFETY AND SPACE CONSIDERATIONS.
 5. CHECK DAMS SHALL BE PLACED AT REGULAR INTERVALS WITHIN CONSTRUCTED CHANNELS THAT ARE CUT DOWN A SLOPE.
- SUGGESTED BMPs TO BE USED:
- BMP C120: TEMPORARY AND PERMANENT SEEDING
BMP C206: INTERCEPTOR DIKE AND SWALE
BMP C201: GRASS-LINED CHANNELS
BMP C202: CHANNEL LINING
BMP C206: LEVEL SPREADER
BMP C207: CHECK DAMS
BMP C208: TRIANGULAR SILT DIKE

ELEMENT #7: PROTECT DRAIN INLETS

1. ALL STORM DRAIN INLETS OPERABLE DURING CONSTRUCTION AND ALL INLETS WITHIN 200 FEET DOWNSTREAM OF THE PROJECT SITE SHALL BE PROTECTED WITH CATCH BASIN FILTERS SO THAT STORMWATER RUNOFF DOES NOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR TREATED TO REMOVE SEDIMENT. CATCH BASIN FILTERS IN THE ROADWAY WILL BE OIL/SEDIMENT FILTERS AND CATCH BASIN FILTERS OUTSIDE OF THE ROADWAY WILL BE SEDIMENT FILTERS.
 2. APPROACH ROADS SHALL BE KEPT CLEAN. SEDIMENT AND STREET WASH WATER SHALL NOT BE ALLOWED TO ENTER STORM DRAINS WITHOUT PRIOR AND ADEQUATE TREATMENT.
 3. INLET PROTECTION DEVICES SHOULD BE CLEANED OR REMOVED AND REPLACED WHEN SEDIMENT HAS FILLED ONE-THIRD OF THE AVAILABLE STORAGE (OR WHEN FILLED WITH SIX-INCHES OF SEDIMENT).
- SUGGESTED BMPs TO BE USED:
- BMP C220: STORM DRAIN INLET PROTECTION

ELEMENT #8: STABILIZE CHANNELS AND OUTLETS

1. ALL TEMPORARY ON-SITE CONVEYANCE CHANNELS SHALL BE DESIGNED, CONSTRUCTED AND STABILIZED TO PREVENT EROSION FROM THE EXPECTED PEAK 10-MINUTE VELOCITY OF FLOW FROM A TYPE 1A, 10-YEAR, 24-HOUR FREQUENCY STORM FOR THE DEVELOPED CONDITION. ALTERNATIVELY, THE 10-YEAR FLOW RATE INDICATED BY AN APPROVED CONTINUOUS RUNOFF MODEL, INCREASED BY A FACTOR OF 1.6, MAY BE USED.
 2. STABILIZATION, INCLUDING ARMORING MATERIAL, ADEQUATE TO PREVENT EROSION OF OUTLETS, ADJACENT STREAM BANKS, SLOPES, AND DOWNSTREAM REACHES SHALL BE PROVIDED AT THE OUTLETS ALL CONVEYANCE SYSTEMS.
- SUGGESTED BMPs/BMPs TO BE USED:
- BMP C201: GRASS-LINED CHANNELS
BMP C202: CHANNEL LINING
BMP C206: LEVEL SPREADER
BMP C207: CHECK DAMS
BMP C208: TRIANGULAR SILT DIKE
BMP C209: OUTLET PROTECTION

ELEMENT #9: CONTROL POLLUTANTS

1. ALL POLLUTANTS, INCLUDING WASTE MATERIALS AND DEMOLITION DEBRIS, THAT OCCUR ON SITE, SHALL BE HANDLED AND DISPOSED OF IN A MANNER THAT DOES NOT CAUSE CONTAMINATION OF STORMWATER.
2. COVER, CONTAINMENT, AND PROTECTION FROM VANDALISM SHALL BE PROVIDED FOR ALL CHEMICALS, LIQUID PRODUCTS, PETROLEUM PRODUCTS, AND OTHER MATERIALS THAT HAVE THE POTENTIAL TO POSE A THREAT TO HUMAN HEALTH AND OR THE ENVIRONMENT. ON-SITE FUELING TANKS SHALL INCLUDE SECONDARY CONTAINMENT.
3. MAINTENANCE, FUELING, AND REPAIR OF HEAVY EQUIPMENT VEHICLES SHALL BE CONDUCTED USING SPILL PREVENTION AND CONTROL MEASURES. CONTAMINATED SURFACES SHALL BE CLEANED IMMEDIATELY FOLLOWING ANY SPILL INCIDENT.
4. WHEEL WASH OR TIRE BATH WASTEWATER SHALL BE DISCHARGED TO A SEPARATE ON-SITE TREATMENT SYSTEM OR TO THE SANITARY SEWER WITH LOCAL SEWER DISTRICT APPROVAL.
5. APPLICATION OF FERTILIZERS AND PESTICIDES SHALL BE CONDUCTED IN A MANNER AND AT APPLICATION RATES THAT WILL NOT RESULT IN LOSS OF CHEMICALS TO STORMWATER RUNOFF. MANUFACTURERS' LABEL REQUIREMENTS FOR APPLICATION RATES AND PROCEDURES SHOULD BE FOLLOWED.
6. BMPs SHALL BE USED TO PREVENT OR TREAT CONTAMINATION OF STORMWATER RUNOFF BY PH MODIFYING SOURCES. THESE SOURCES INCLUDE, BUT ARE NOT LIMITED TO: BULK CEMENT, CEMENT KILN DUST, FLY, ASH, NEW CONCRETE WASHING AND CURING WATERS, WASTE STREAMS GENERATED FROM CONCRETE GRINDING AND SAWING, EXPOSED AGGREGATE PROCESSES, AND CONCRETE PUMPING AND MIXER WASHOUT WATERS. PERMITTEES SHALL ADJUST THE PH OF STORMWATER IF NECESSARY TO PREVENT VIOLATIONS OF WATER QUALITY STANDARDS.
7. PERMITTEES SHALL OBTAIN WRITTEN APPROVAL FROM ECOLOGY PRIOR TO USING CHEMICAL TREATMENT, OTHER THAN CARBON DIOXIDE OR DRY ICE, TO ADJUST PH.
8. PROCESS WATER AND SLURRY RESULTING FROM CONCRETE WORK WILL BE PREVENTED FROM ENTERING THE WATERS OF THE STATE BY IMPLEMENTING CONCRETE HANDLING MEASURES. (BMP C151).

ELEMENT #10: CONTROL DE-WATERING

1. FOUNDATION, VAULT, AND TRENCH DE-WATERING, WATER WHICH HAVE SIMILAR CHARACTERISTICS TO STORMWATER RUNOFF AT THE SITE, SHALL BE DISCHARGED INTO A CONTROLLED CONVEYANCE SYSTEM PRIOR TO DISCHARGE TO A SEDIMENT TRAP OR SEDIMENT POND. STABILIZE CHANNELS PER ELEMENT #6.
2. CLEAN, NON TURBID DE-WATERING WATER, SUCH AS WELL-POINT GROUND WATER, CAN BE DISCHARGED TO SYSTEMS TRIBUTARY TO, OR DIRECTLY INTO, SURFACE WATERS OF THE STATE, PROVIDED THE DE-WATERING FLOW DOES NOT CAUSE EROSION OR FLOODING OR A VIOLATION OF STATE WATER QUALITY STANDARDS IN THE RECEIVING WATERS. CLEAN DE-WATERING WATER SHOULD NOT BE ROUTED THROUGH STORMWATER SEDIMENTS PONDS.
3. OTHER DE-WATERING DISPOSAL OPTIONS MAY INCLUDE:
 - a) INFILTRATION
 - b) TRANSPORT OFF SITE IN A VEHICLE, SUCH AS A VACUUM FLUSH TRUCK, FOR LEGAL DISPOSAL IN A MANNER THAT DOES NOT POLLUTE STATE WATERS
 - c) ECOLOGY APPROVED ON-SITE CHEMICAL TREATMENT OF OTHER SUITABLE TREATMENT TECHNOLOGIES.
 - d) SANITARY SEWER DISCHARGE WITH LOCAL SEWER DISTRICT APPROVAL, IF THERE IS NO OTHER OPTION.
 - e) USE OF A SEDIMENTATION BAG (DIRTBAG OR APPROVED EQUAL) WITH OUTFALL TO A DITCH OR SWALE FOR SMALL VOLUMES OF LOCALIZED DE-WATERING.
4. HIGHLY TURBID, 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. SUCH CONTAMINATED WATER WILL REQUIRE ADDITIONAL MONITORING AND TREATMENT AS REQUIRED FOR THE SPECIFIC POLLUTANTS BASED ON THE RECEIVING WATERS INTO WHICH THE DISCHARGE IS OCCURRING. SUCH MONITORING IS THE RESPONSIBILITY OF THE CONTRACTOR.

ELEMENT #11: MAINTAIN BMPs

1. VISUALLY INSPECT EROSION CONTROL DEVICES ON A WEEKLY BASIS AND WITHIN 24 HOURS OF ANY STORMWATER EVENT. MAKE NECESSARY REPAIRS AND MAINTENANCE TO ENSURE CONTINUED PERFORMANCE OF EROSION AND SEDIMENT CONTROLS. IF THE SITE BECOMES INACTIVE AND IS TEMPORARILY STABILIZED, THE INSPECTION FREQUENCY WILL BE REDUCED TO ONCE EVERY MONTH.
2. WHEN SEDIMENT ACCUMULATION IN SEDIMENTATION STRUCTURES, OTHER THAN INLET PROTECTION DEVICES, HAS REACHED A POINT OF ONE-THIRD OF THE DEPTH OF THE SEDIMENT STRUCTURE OR DEVICE, OR IF FLOW THROUGH THE DEVICE IS REDUCED BY MORE THAN ONE-THIRD OF THE CAPACITY, THE CONTRACTOR SHALL REMOVE AND REPLACE DISPOSABLE DEVICES OR CLEAN AND DISPOSE OF SEDIMENT.
3. TEMPORARY EROSION AND SEDIMENT CONTROL BMPs SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY BMPs ARE NO LONGER NEEDED. TRAPPED SEDIMENT SHALL BE REMOVED OR STABILIZED ON SITE. DISTURBED SOILS SHALL BE PERMANENTLY STABILIZED.

ELEMENT #12: MANAGE THE PROJECT

1. PHASING OF CONSTRUCTION:
 - a) PROJECTS SHALL BE PHASED WHERE FEASIBLE IN ORDER TO PREVENT, TO THE MAXIMUM EXTENT PRACTICABLE, THE TRANSPORT OF SEDIMENT FROM THE DEVELOPMENT SITE DURING CONSTRUCTION. REVEGETATION OF EXPOSED AREAS AND MAINTENANCE OF THAT VEGETATION SHALL BE AN INTEGRAL PART OF THE CLEARING ACTIVITIES FOR ANY PHASE, PER THE SCHEDULING BMP (C162).
 - b) CLEARING AND GRADING ACTIVITIES FOR DEVELOPMENT SHALL BE PERMITTED ONLY IF CONDUCTED PURSUANT TO AN APPROVED SITE DEVELOPMENT PLAN (E.G. SUB DIVISION APPROVAL) THAT ESTABLISHES APPROVED AREAS OF CLEARING, GRADING CUTTING AND FILLING. WHEN ESTABLISHING THESE AREAS, MINIMIZE REMOVAL OF EXISTING TREES AND MINIMIZE DISTURBANCE AND COMPACTION OF NATIVE SOILS EXCEPT AS NEEDED FOR BUILDING PURPOSES. THESE PERMITTED CLEARING AND GRADING AREAS, GROWTH PROTECTION EASEMENTS, OR TREE RETENTION AREAS, AS MAY BE REQUIRED BY LOCAL JURISDICTIONS, SHALL BE DELINEATED ON THE SITE PLANS AND THE DEVELOPMENT SITE.
2. SEASONAL WORK LIMITATIONS:

FROM OCTOBER 1 THROUGH APRIL 30, CLEARING, GRADING, AND OTHER SOIL DISTURBING ACTIVITIES SHALL ONLY BE PERMITTED IF SHOWN TO THE SATISFACTION OF THE LOCAL PERMITTING AUTHORITY THAT THE TRANSPORT OF SEDIMENT FROM THE CONSTRUCTION SITE TO RECEIVING WATERS WILL BE PREVENTED THROUGH A COMBINATION OF THE FOLLOWING:
 - a) SITE CONDITIONS INCLUDING EXISTING VEGETATIVE COVERAGE, SLOPE, SOIL TYPE, AND PROXIMITY TO RECEIVING WATERS; AND
 - b) LIMITATIONS ON ACTIVITIES AND THE EXTENT OF DISTURBED AREAS; AND
 - c) PROPOSED EROSION AND SEDIMENT CONTROL MEASURES.

BASED ON THE INFORMATION PROVIDED AND/OR ON LOCAL WEATHER CONDITIONS, THE LOCAL PERMITTING AUTHORITY MAY EXPAND OR RESTRICT THE SEASONAL LIMITATION ON SITE DISTURBANCE. THE LOCAL PERMITTING AUTHORITY SHALL TAKE ENFORCEMENT ACTION SUCH AS NOTICE OF VIOLATION, ADMINISTRATIVE ORDER, PENALTY, OR STOP-WORK ORDER UNDER THE FOLLOWING CIRCUMSTANCES;
-IF, DURING THE COURSE OF ANY CONSTRUCTION OR SOIL DISTURBANCE ACTIVITY DURING THE SEASONAL LIMITATION ON SITE DISTURBANCE, SEDIMENT LEAVES THE CONSTRUCTION SITE CAUSING A VIOLATION OF THE SURFACE WATER QUALITY STANDARD; OR
-IF CLEARING AND GRADING LIMITS OR EROSION AND SEDIMENT CONTROL MEASURES SHOWN IN THE APPROVED PLAN ARE NOT MAINTAINED.

THE FOLLOWING ACTIVITIES ARE EXEMPT FROM THE SEASONAL CLEARING AND GRADING LIMITATIONS:

- a) ROUTINE MAINTENANCE AND NECESSARY REPAIR OF EROSION AND SEDIMENT CONTROL BMPs;
- b) ROUTINE MAINTENANCE OF PUBLIC FACILITIES OR EXISTING UTILITY STRUCTURES THAT DO NOT EXPOSE THE SOIL OR RESULT IN THE REMOVAL OF THE VEGETATION COVER TO SOIL, AND
- c) ACTIVITIES WHERE THERE IS ONE HUNDRED PERCENT INFILTRATION OF SURFACE WATER RUNOFF WITHIN THE SITE IN APPROVED AND INSTALLED EROSION AND SEDIMENT CONTROL FACILITIES.

3. COORDINATE WITH UTILITIES AND OTHER CONTRACTORS

THE PRIMARY PROJECT PROPONENT SHALL EVALUATE, WITH INPUT FROM UTILITIES AND OTHER CONTRACTORS, THE STORMWATER MANAGEMENT REQUIREMENTS FOR THE ENTIRE PROJECT, INCLUDING THE UTILITIES, WHEN PREPARING THE CONSTRUCTION SWPPP.

4. INSPECTION AND MONITORING

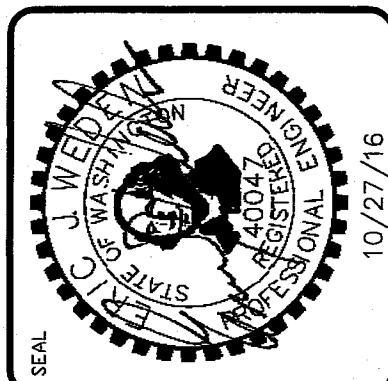
- a) A CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL SHALL BE IDENTIFIED AT THE PRE-CONSTRUCTION MEETING AND SHALL BE ON SITE OR ON CALL AT ALL TIMES. EMERGENCY CONTACT INFORMATION SHALL BE KEPT ON SITE. CERTIFICATION MAY BE THROUGH THE CONSTRUCTION SITE EROSION AND SEDIMENT CONTROL CERTIFICATION PROGRAM OFFERED BY WSDOT, ASSOCIATED GENERAL CONTRACTORS OF WASHINGTON EDUCATION FOUNDATION, OR ANY EQUIVALENT LOCAL OR NATIONAL CERTIFICATION AND/OR TRAINING PROGRAM.
 - b) IF INSPECTION AND/OR WATER MONITORING OF SITE RUNOFF REVEALS THAT THE BMPs IDENTIFIED IN THE CONSTRUCTION SWPPP ARE INADEQUATE, THE CONTRACTOR SHALL IMMEDIATELY ADD BMPs TO THE SWPPP AS NECESSARY.
 - c) MONITORING INCLUDES VISUAL INSPECTION, MONITORING FOR WATER QUALITY PARAMETERS OF CONCERN, AND DOCUMENTATION OF THE INSPECTION AND MONITORING FINDINGS IN A SITE LOG BOOK. A SITE LOG BOOK WILL BE MAINTAINED FOR ALL ON-SITE CONSTRUCTION ACTIVITIES AND WILL INCLUDE:

A RECORD OF THE IMPLEMENTATION OF THE SWPPP AND OTHER PERMIT REQUIREMENTS;

SITE INSPECTIONS; AND,

STORMWATER QUALITY MONITORING.
 - d) SITE INSPECTION WILL OCCUR IN ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES AND AT ALL STORMWATER DISCHARGE POINTS. STORMWATER WILL BE EXAMINED FOR THE PRESENCE OF SUSPENDED SEDIMENT, TURBIDITY, DISCOLORATION, AND OILY SHEEN. THE SITE INSPECTOR WILL EVALUATE AND DOCUMENT THE EFFECTIVENESS OF THE INSTALLED BMPs AND DETERMINE IF IT IS NECESSARY TO REPAIR OR REPLACE ANY OF THE BMPs TO IMPROVE THE QUALITY OF STORMWATER DISCHARGES. ALL MAINTENANCE AND REPAIRS WILL BE DOCUMENTED IN THE SITE LOG BOOK OR FORMS PROVIDED IN THIS DOCUMENT (THE STORMWATER MANAGEMENT PLAN). ALL NEW BMPs OR DESIGN CHANGES WILL BE DOCUMENTED IN THE SWPPP AS SOON AS POSSIBLE.
 - e) RECORDS OF ALL MONITORING INFORMATION (SITE LOG BOOK, INSPECTION REPORTS/CHECKLISTS, ETC.), THIS STORMWATER POLLUTION PREVENTION PLAN, AND ANY OTHER DOCUMENTATION OF COMPLIANCE WITH PERMIT REQUIREMENTS WILL BE RETAINED DURING THE LIFE OF THE CONSTRUCTION PROJECT AND FOR A MINIMUM OF THREE YEARS FOLLOWING THE TERMINATION OF PERMIT COVERAGE IN ACCORDANCE WITH PERMIT CONDITION 55.C.
5. THE CONSTRUCTION SWPPP SHALL BE RETAINED ON SITE.
- THE CONTRACTOR'S TESC RECORD OF RAINFALL, TESC MEASUREMENTS, AND INSPECTION SHALL BECOME PART OF THE SWPPP. THE CONSTRUCTION SWPPP SHALL BE MODIFIED WHENEVER THERE IS A SIGNIFICANT CHANGE IN THE DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE AT THE CONSTRUCTION SITE.
6. NAMES AND CONTACT INFORMATION FOR THOSE IDENTIFIED AS MEMBERS OF THE POLLUTION PREVENTION TEAM ARE AS FOLLOWS:

CERTIFIED EROSION & SEDIMENT CONTROL LEAD (CESCL):	RUSS SWANSON	(360) 201-7020
RESIDENT ENGINEER/EMERGENCY OWNER CONTACT:	WEDEN ENGINEERING	(360) 380-1363
EMERGENCY ECOLOGY CONTACT:	KEVIN FITZPATRICK	(425) 649-7033



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(360) 380-1363 (360) 384-3615 Fx
email: info@wedenengineering.com

W

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DEC 12 2016
CITY OF FERNDALE

BY _____

NO.	REVISIONS / SUBMISSIONS	DATE
	AS-BUILT REVIEW PER CITY REVIEW	10/13/16
	AS-BUILT INFORMATION	05/30/16
3	REVISIONS PER CITY COMMENTS	05/28/15
2	REVISIONS PER CITY COMMENTS	04/17/15
1	REVISIONS PER CITY COMMENTS	03/19/15
	REVISED BY: EJJW	
	CAD FILE	
	PROJECT NO. 1308-03	

AS-BUILTS

PROJECT TITLE
**THE MEADOWS - PHASE III
A PLANNED UNIT DEVELOPMENT
THORNTON ROAD
FERNDALE, WA**

DRAWING TITLE
SWPPP- EROSION CONTROL PLAN

006071 005 12/23/16 SH

SEC. 24, TWP. 39 N, R. 01 E OF W.M.



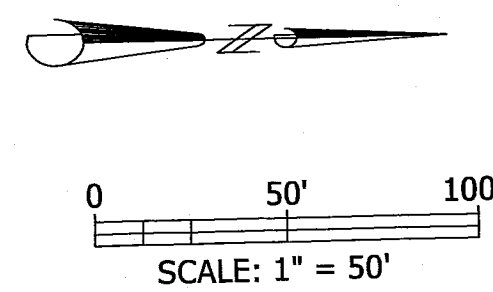
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GRADING NOTES:

1. TOPSOIL SHALL BE STRIPPED FROM FILL AREAS ON LOTS PRIOR TO PLACEMENT OF STRUCTURAL FILL ON LOTS
2. SUBGRADE SLOPES STEEPER THAN 25% (4:1) AFTER TOPSOIL STRIPPING SHALL BE PROPERLY STEPPED AND KEYED PRIOR TO PLACEMENT OF STRUCTURAL FILL TO PREVENT FUTURE MOVEMENT OF FILL PRISM
3. STRUCTURAL FILL ON LOTS SHALL BE PLACED AT MIN 95% COMPACTION IN 2' LIFTS, OR AS RECOMMENDED BY GEOTECHNICAL ENGINEER, TOPSOIL FILL ON LOTS SHALL BE PLACED AT 85%-90% COMPACTION
4. ENGINEER TO PROVIDE CERTIFICATION BY A GEOTECHNICAL ENGINEER OF ADEQUATE LOT COMPACTION WITHIN EACH LOT BUILDING ENVELOPE.
5. SIDEWALK RAMPS AND DRIVEWAY CUTS ARE NOT REFLECTED IN SHOWN GRADING. AREAS WILL BE ADJUSTED IN FIELD.
6. THE CITY REQUIRES THE MATERIAL TESTING LAB TO SUBMIT TEST REPORTS TO THE ENGINEER OF RECORD, THE CONTRACTOR, AND TO THE CITY. THE CITY REQUIRES THE ENGINEER TO CERTIFY THE PROJECT IS CONSTRUCTED IN ACCORDANCE WITH THE APPROVED PLANS, SPECIFICATIONS AND THE CITY OF FERDALE DEVELOPMENT STANDARDS FOR PROJECT ACCEPTANCE.

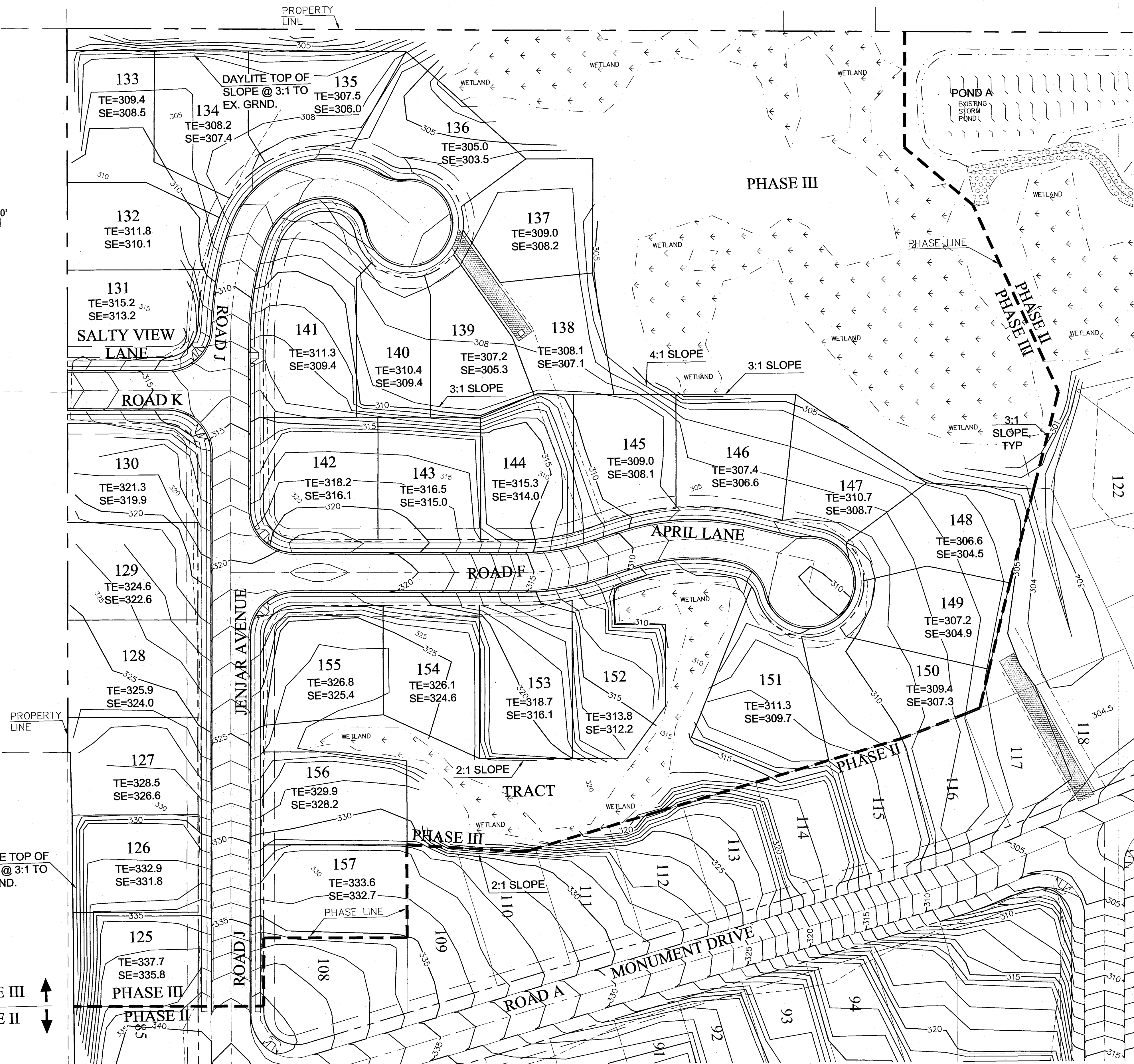
Lot	Top Soil Elevation	Structural Elevation
125	337.7	335.8
126	332.9	331.8
127	328.5	326.6
128	325.9	324.0
129	324.6	322.6
130	321.3	319.9
131	315.2	313.2
132	311.8	310.1
133	309.4	308.5
134	308.2	307.4
135	307.5	306.0
136	305.0	303.5
137	309.0	308.2
138	308.1	307.1
139	307.2	305.3
140	310.4	309.4
141	311.3	309.4
142	318.2	316.1
143	316.5	315.0
144	315.0	314.0
145	309.0	308.1
146	307.4	306.6
147	310.7	308.7
148	306.6	304.5
149	307.2	304.9
150	309.4	307.3
151	311.3	309.7
152	313.8	312.2
153	318.7	316.1
154	326.1	324.6
155	326.8	325.4
156	329.9	328.2
157	333.6	332.7

TOPSOIL & STRUCTURAL
ELEVATIONS PROVIDED BY
POWERTEK, Mar 2016



DAYLITE TOP OF
SLOPE @ 3:1 TO
EX. GRND.

PHASE III
PHASE II



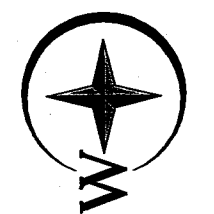
AS-BUILTS

PROJECT TITLE
**THE MEADOWS - PHASE III
A PLANNED UNIT DEVELOPMENT
THORNTON ROAD
FERDALE, WA**

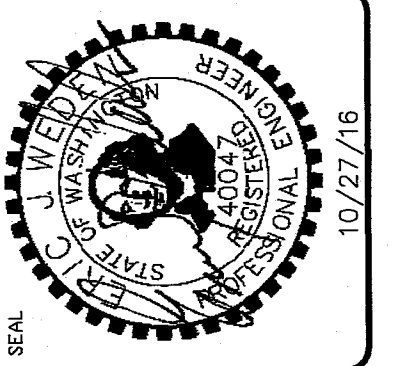
DATE: 01/19/2015
DRAWING No.
6 of 29

No.	REVISIONS / SUBMISSIONS	DATE
3	AS-BUILT INFORMATION	05/20/16
2	REVISED GRADING	05/25/15
1	REVISIONS PER CITY COMMENTS	05/14/15
1	REVISIONS PER CITY COMMENTS	04/17/15
1	REVISIONS PER CITY COMMENTS	03/19/15
1	REVIEWED BY: EJM	DRAWN BY: KLS
PROJECT NO.: 1308-03		CAD FILE:

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DEC 12 2016
CITY OF FERDALE



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NOTES:

1. SANITARY SEWER AND STORM SERVICE STUBS TO BE CAPPED AND MARKED PER COF STANDARDS FOR LOCATION AND INVERTS. THE DEPTH OF EACH SEWER STUB SHALL BE CLEARLY NOTED UNDER THE WORD "SEWER" ON EACH STUB WITH PERMANENT PAINT FROM FINISHED GRADE.
2. CONTRACTOR TO VERIFY EXISTING SANITARY SEWER STUB INVERTS AND MARKINGS. AS-BUILT DRAWINGS SHALL REFLECT EACH SEWER AND STORM STUB INVERT ELEVATION.
3. **[#]** - BOXED LOT NUMBERS INDICATE THAT BOTH THE ROOF AND DRIVEWAY STORM RUNOFF IS ROUTED DIRECTLY TO THE WETLANDS THROUGH A DISPERSION TRENCH. NO STORM SERVICE STUB IS PROVIDED FOR THIS LOT.
4. DO NOT REUSE/RELAY USED PIPE THAT HAS BEEN REMOVED.

0 50' 100'
SCALE: 1"=50'

MAXIMUM IMPERVIOUS LOT AREA

LOT	IMPERVIOUS AREA SQUARE FOOT (S.F.)	LOT	IMPERVIOUS AREA SQUARE FOOT (S.F.)
125	6,124	146	11,050
126	6,473	147	9,560
127	6,646	148	10,942
128	6,809	149	9,802
129	6,809	150	8,682
130	6,483	151	12,084
131	5,492	152	10,605
132	6,333	153	8,046
133	6,456	154	6,668
134	7,543	155	6,450
135	7,073	156	10,860
136	10,217	157	7,345
137	10,997		
138	10,243		
139	6,012		
140	5,319		
141	8,888		
142	6,752		
143	6,690		
144	6,262		
145	10,501		

THE MAXIMUM IMPERVIOUS LOT AREA TABLE PROVIDED ON THIS PLAN SHEET ACCURATELY REFLECTS CHANGES MADE TO THE UPDATED MEADOWS STORM REPORT

DISPERSION TRENCH, SPECIFICATION:

A. AT TIME OF FINAL PLAT APPLICATION SUBMITTAL, THE FOLLOWING NOTE SHALL BE ADDED TO THE FACE OF THE FINAL PLAT REFERENCE THE APPROVED DISPERSION TRENCH DETAIL AND SPECIFICATIONS:

1. LOTS 136,137,138,145,146,147,148,149,151,152 & 153 ARE REQUIRED TO INSTALL A DISPERSION TRENCH. SPECIFIC CONSTRUCTION PLANS, DETAILS AND REQUIREMENTS FOR EACH FACILITY ARE RECORDED UNDER AUDITOR'S FILE NO. IT IS THE SOLE RESPONSIBILITY OF THE PROPERTY OWNER AND/OR CONTRACTOR TO CONSTRUCT THE DISPERSION TRENCH ACCORDING TO THE DISPERSION TRENCH DETAIL AND SPECIFICATIONS.

B. BEFORE SUBMITTING A BUILDING PERMIT APPLICATION TO THE CITY OF FERNDALE, THE PROPERTY OWNER OR HIS/HER REPRESENTATIVE ("APPLICANT") SHALL PREPARE A BUILDING SITE PLAN ILLUSTRATING THE PRECISE LOCATION AND SIZE OF THE PROPOSED DISPERSION TRENCH INCLUDING DIMENSIONS, GRADING AND DRAINAGE REQUIREMENTS SPECIFIC TO THAT LOT ("LID SITE PLAN"). THE LID SITE PLAN SHALL BE REVIEWED AND APPROVED BY THE ENGINEER OF RECORD FOR THE MEADOWS SUBDIVISION, OR IF UNAVAILABLE, A LICENSED CIVIL ENGINEER WITH EQUIVALENT QUALIFICATIONS ("REVIEW ENGINEER") FOR EACH LOT.

C. THE REVIEW ENGINEER SHALL MONITOR AND RECORD CONSTRUCTION OF THE LID IMPROVEMENTS DURING HOME CONSTRUCTION IN ORDER TO CERTIFY THAT THE IMPROVEMENTS ARE CONSTRUCTED IN CONFORMANCE WITH THE LID SITE PLAN. ASSOCIATED DOE REQUIREMENTS, IS COMPLETE AND FULLY FUNCTIONAL. PRIOR TO FINAL INSPECTION FOR HOME OCCUPANCY, THE APPLICANT SHALL OBTAIN AND PROVIDE TO THE COF PLANNING DIVISION, AN ORIGINAL STAMPED AND SIGNED DOCUMENT FROM THE REVIEW ENGINEER ATTESTING THAT THE LID IMPROVEMENTS WERE CONSTRUCTED IN ACCORDANCE TO THE REQUIREMENTS REFERENCED HEREIN.

DISPERSION TRENCH MAINTENANCE REQUIREMENTS.

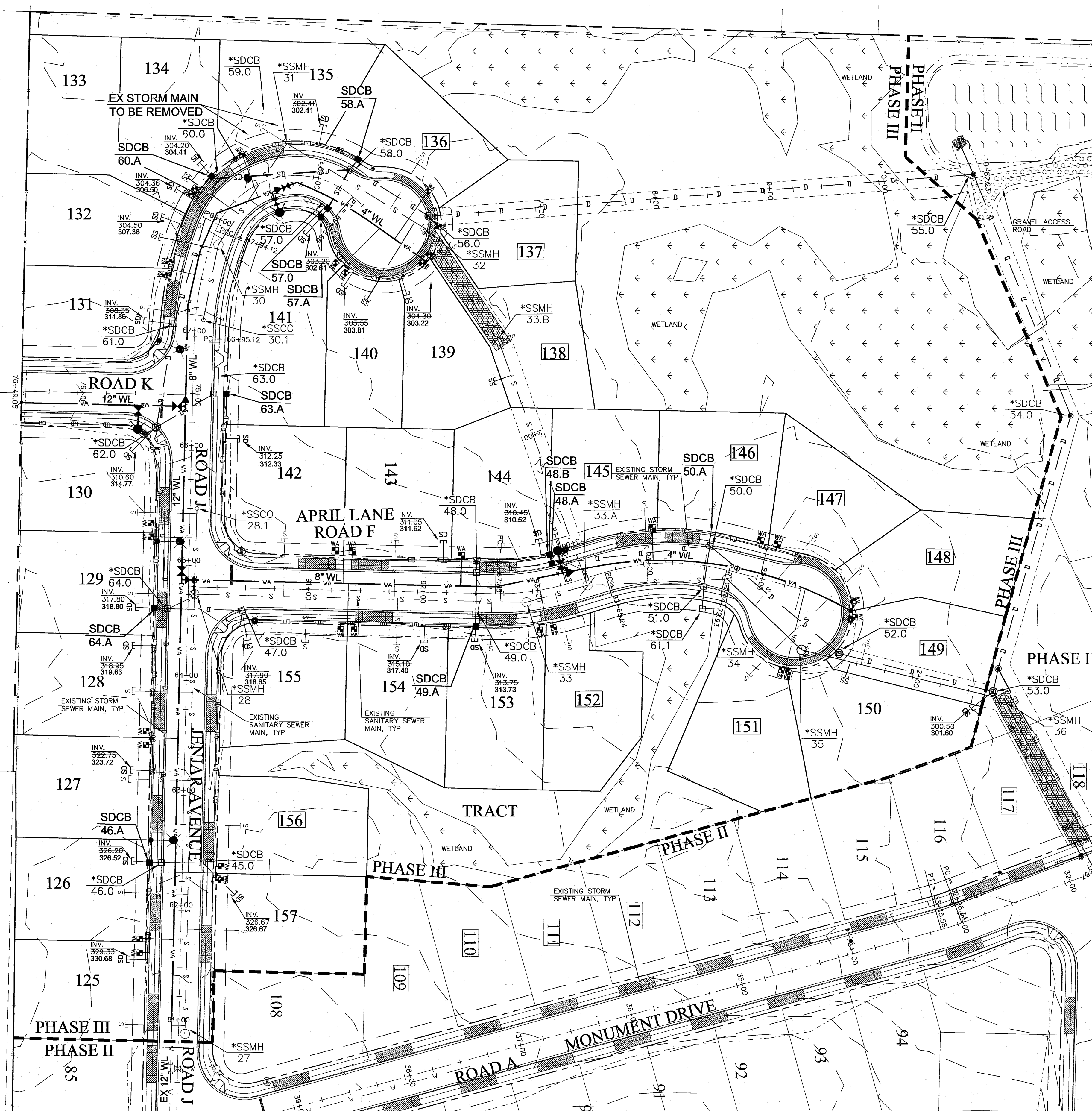
A. MAINTENANCE OF LOW IMPACT DEVELOPMENT STORMWATER MANAGEMENT FACILITIES SHALL BE ENSURED THROUGH A MAINTENANCE COVENANT OR EASEMENTS ON THE FACE OF THE PLAT. THE LANGUAGE FOR WHICH MUST BE APPROVED BY THE CITY OF FERNDALE, AND RECORDED INTO THE LAND RECORD PRIOR TO FINAL PROJECT APPROVAL.

B. THE PLAT LANGUAGE SHALL IDENTIFY REQUIREMENTS AND LIABILITY FOR PRESERVATION AND MAINTENANCE OF THE PRIVATELY OWNED LOW IMPACT DEVELOPMENT FACILITIES THAT RESTRICTS CONVERSION OF THE LID FACILITIES, AND SHALL GRANT THE CITY RIGHT OF ENTRY TO ALLOW INSPECTION, AND EMERGENCY MAINTENANCE AND REPAIR.

LOTS REQUIRING LID DISPERSION TRENCHES TO BE PLACED DURING RESIDENTIAL BUILDING DESIGN

LOT	IMPERVIOUS COVERAGE SQUARE FOOT (S.F.)
136	10,217
137	10,997
138	10,243
145	10,501
146	11,050
147	9,560
148	10,942
149	9,802
151	12,084
152	10,605
156	10,860

PHASE III
PHASE II



AS-BUILTS

PROJECT TITLE
THE MEADOWS - PHASE III
A PLANNED UNIT DEVELOPMENT
THORNTON ROAD
FERNDALE, WA

DRAWING TITLE
OVERALL UTILITY PLAN

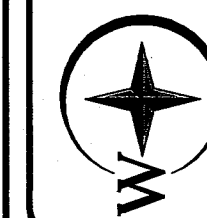
DATE: 01/19/2015
DRAWING NO.

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NO.	REVISIONS/ SUBMISSIONS	DATE
1	AS-BUILT INFORMATION	05/19/16
2	REVISIONS PER CITY COMMENTS	06/10/16
3	REVISIONS PER CITY COMMENTS	05/28/16
4	REVISIONS PER CITY COMMENTS	04/17/15
5	REVISIONS PER CITY COMMENTS	03/19/15
6	REVIEWED BY E.W.	
7	DRAWN BY KLS	
8	PROJECT NO. 1308-03	

AS-BUILT REVIEWED PER CITY REVIEW 10/13/16

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DEC 12 2016
BY: CITY OF FERNDALE

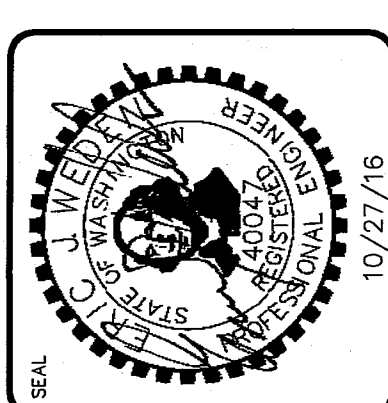
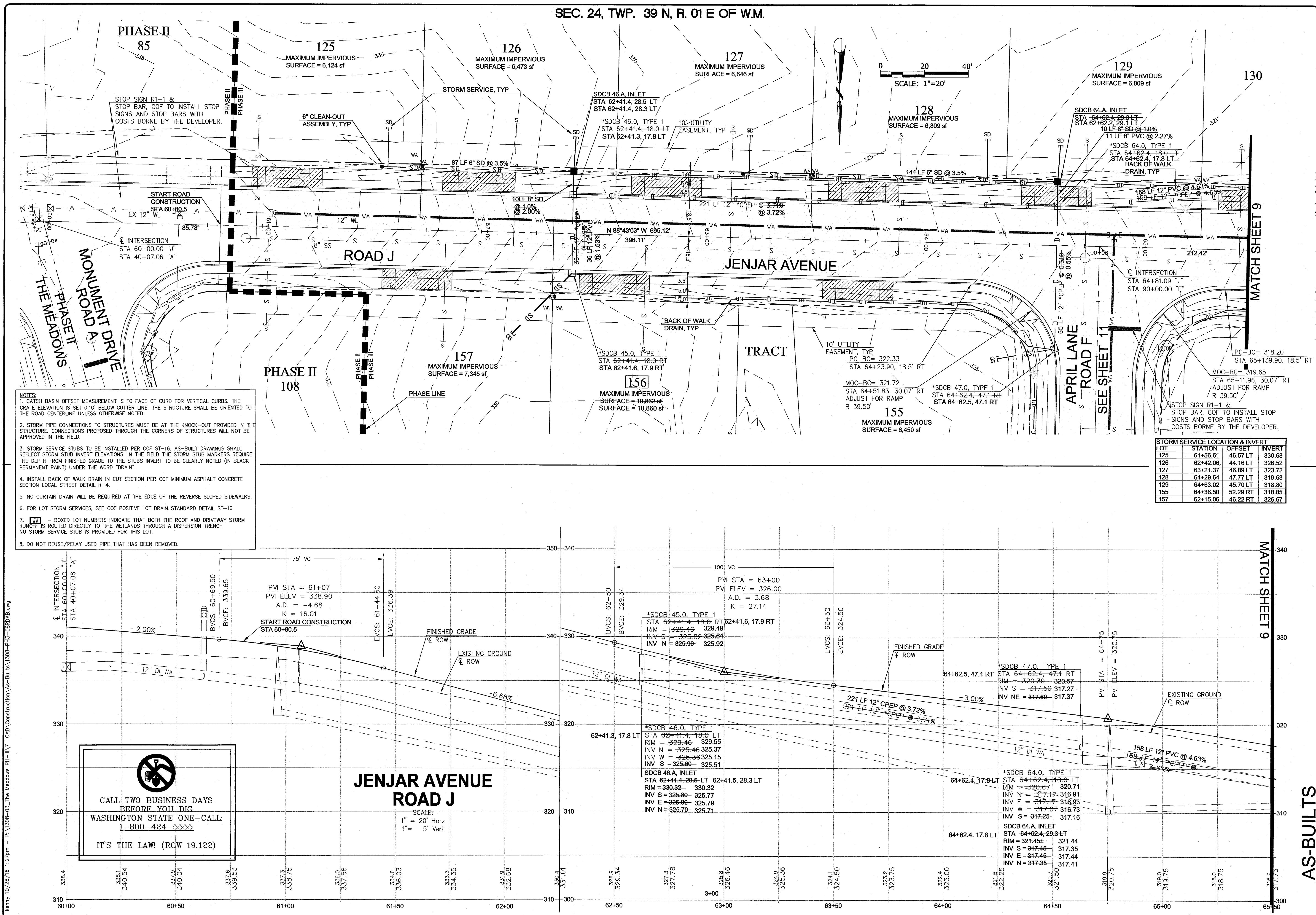


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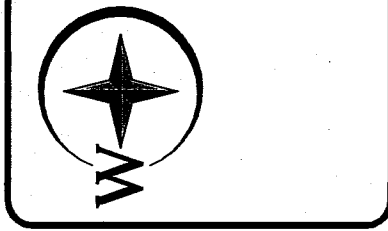
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BY: CITY OF FERNDALE

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1	REVISIONS PER CITY COMMENTS	03/19/15
1	REVIEWED: E.J.W.	DRAWN: K.L.S.
CAD FILE:		PROJECT NO. 1308-03

AS-BUILTS

THE MEADOWS - PHASE III
A PLANNED UNIT DEVELOPMENT
THORNTON ROAD
FERNDALE, WA

ROAD J PLAN & PROFILE

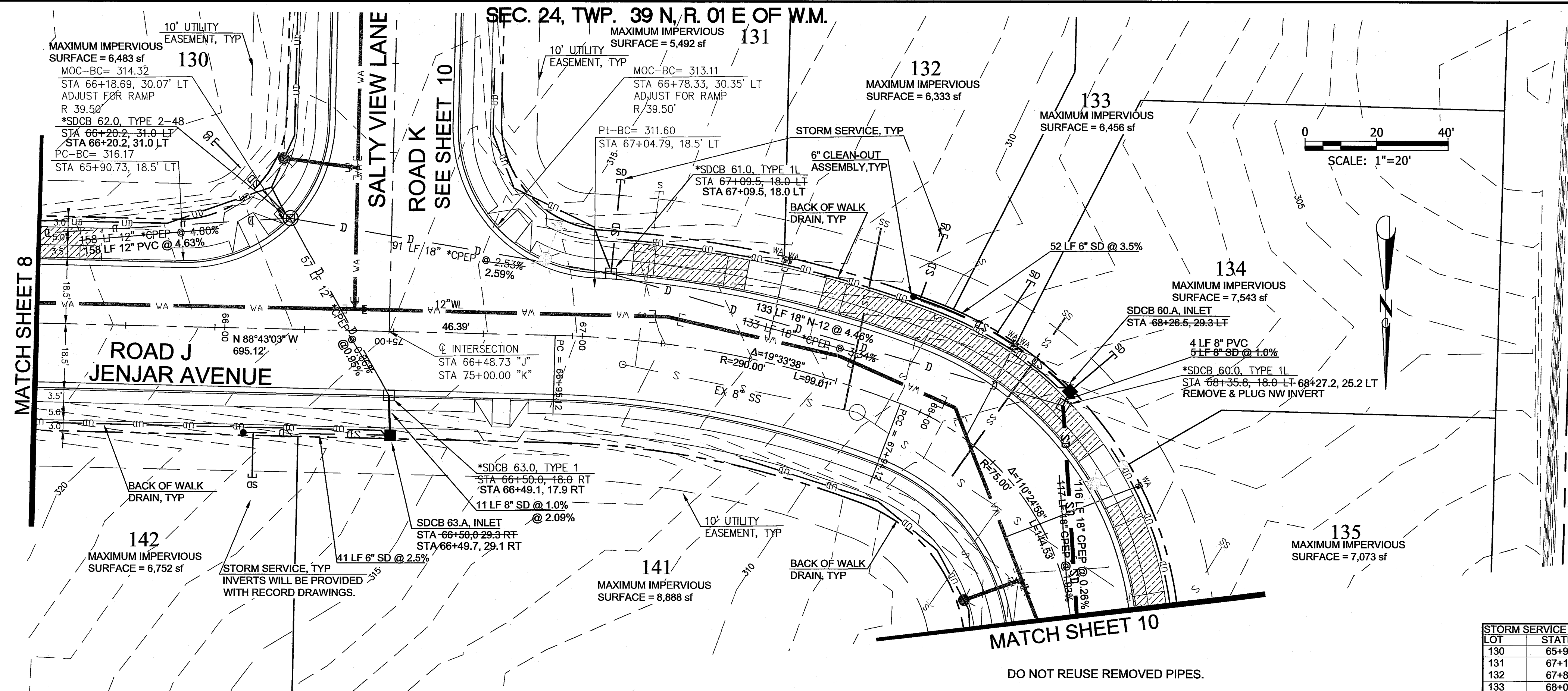
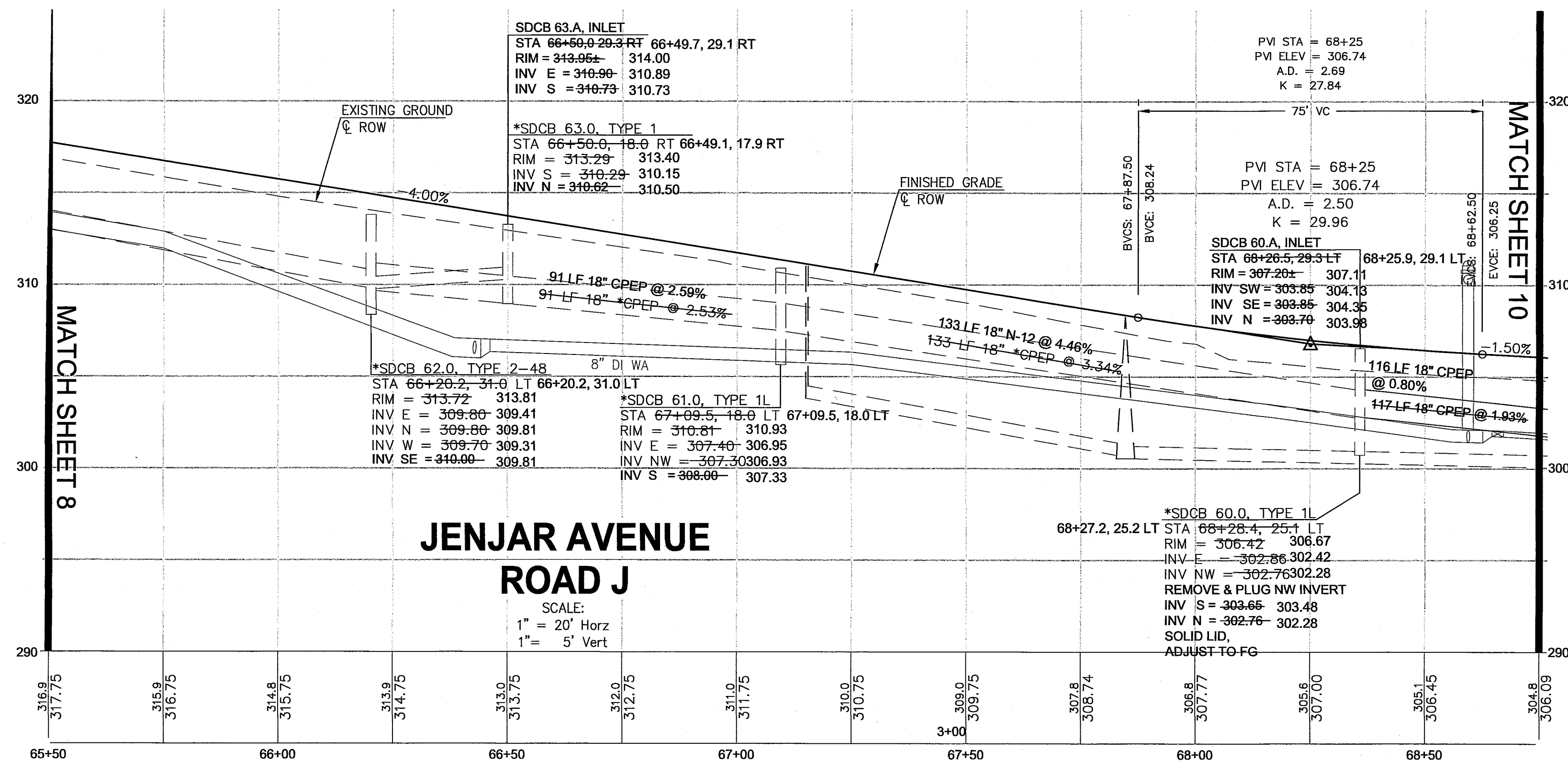
DATE: 01/19/2015
DRAWING No.
8 of 29

00609.008 12/23/16 SH

- NOTES:
1. CATCH BASIN OFFSET MEASUREMENT IS TO FACE OF CURB FOR VERTICAL CURBS. THE GRATE ELEVATION IS SET 0.10' BELOW GUTTER LINE. THE STRUCTURE SHALL BE ORIENTED TO THE ROAD CENTERLINE UNLESS OTHERWISE NOTED.
 2. STORM PIPE CONNECTIONS TO STRUCTURES MUST BE AT THE KNOCK-OUT PROVIDED IN THE STRUCTURE. CONNECTIONS PROPOSED THROUGH THE CORNERS OF STRUCTURES WILL NOT BE APPROVED IN THE FIELD.
 3. STORM SERVICE STUBS TO BE INSTALLED PER COF ST-16. AS-BUILT DRAWINGS SHALL REFLECT STORM STUB INVERT ELEVATIONS. IN THE FIELD, THE STORM STUB MARKERS REQUIRE THE DEPTH FROM FINISHED GRADE TO THE STUBS INVERT TO BE CLEARLY NOTED (IN BLACK PERMANENT PAINT) UNDER THE WORD "DRAIN".
 4. INSTALL BACK OF WALK DRAIN IN CUT SECTION PER COF MINIMUM ASPHALT CONCRETE SECTION LOCAL STREET DETAIL R-4.
 5. NO CURTAIN DRAIN WILL BE REQUIRED AT THE EDGE OF THE REVERSE SLOPED SIDEWALKS.
 6. FOR LOT STORM SERVICES, SEE COF POSITIVE LOT DRAIN STANDARD DETAIL ST-16
 7. 13 - BOXED LOT NUMBERS INDICATE THAT BOTH THE ROOF AND DRIVEWAY STORM RUNOFF IS ROUTED DIRECTLY TO THE WETLANDS THROUGH A DISPERSION TRENCH. NO STORM SERVICE STUB IS PROVIDED FOR THIS LOT.
 8. DO NOT REUSE/RELAY USED PIPE THAT HAS BEEN REMOVED.



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IT'S THE LAW! (RCW 19.122)



LOT	STATION	OFFSET	INVERT
130	65+98.43	52.15 LT	314.77
131	67+10.17	44.41 LT	311.86
132	67+89.35	48.56 LT	307.38
133	68+07.75	46.90 LT	306.50
134	68+26.83	45.53 LT	304.41
142	66+11.40	41.72 RT	312.33

AS-BUILTS

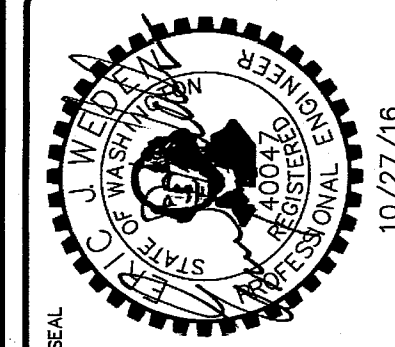
PROJECT TITLE
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A PLANNED UNIT DEVELOPMENT
THORNTON ROAD
FERNDALE, WA
DRAWING TITLE
ROAD J PLAN & PROFILE

DATE : 01/19/2015
DRAWING NO.

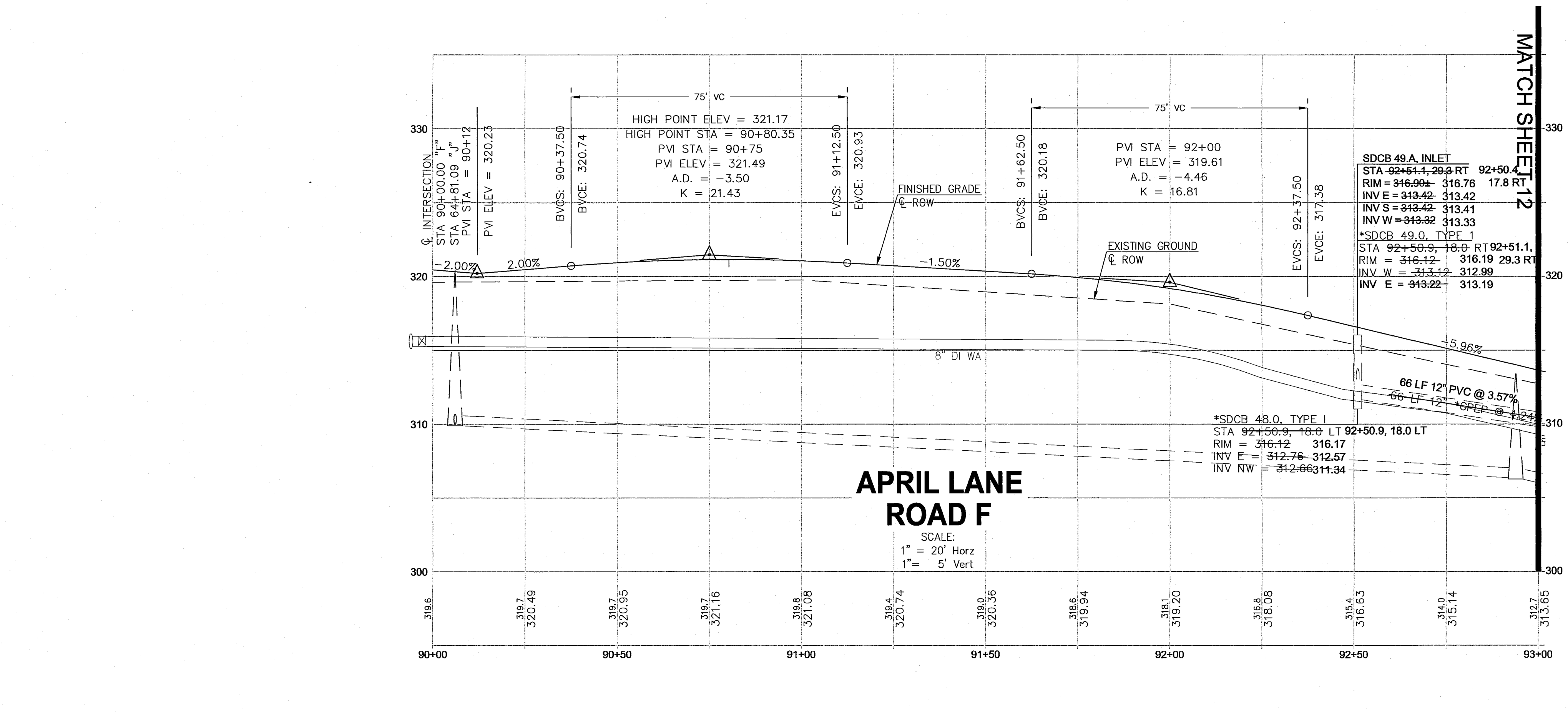
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IS TO FACE OF CURB FOR VERTICAL CURBS. THE
OUTER LINE. THE STRUCTURE SHALL BE ORIENTED TO
USE NOTED.

STRUCTURES MUST BE AT THE KNOCK-OUT PROVIDED IN TH
THROUGH THE CORNERS OF STRUCTURES WILL NOT BE

ILLED PER COF ST-16, AS-BUILT DRAWINGS SHALL
NS. IN THE FIELD THE STORM SUB MARKERS REQUIRE
THE STUBS INTO BE TO CLEARLY NOTED (IN BLACK
DRAIN".

ST SECTION PER COF MINIMUM ASPHALT CONCRETE

ED AT THE EDGE OF THE REVERSE SLOPED SIDEWALKS

POSITIVE LOT DRAIN STANDARD DETAIL ST-16

ICATE THAT BOTH THE ROOF AND DRIVEWAY STORM
METLANDS THROUGH A DISPERSION TRENCH
FOR THIS LOT.

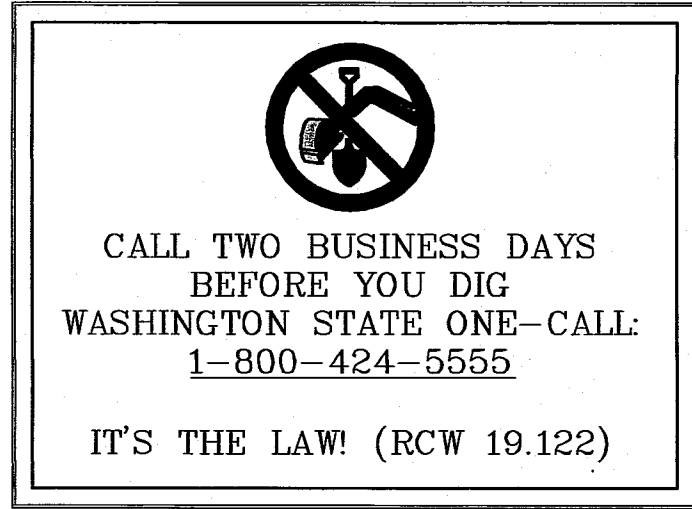
HAT HAS BEEN REMOVED.

NOTES:

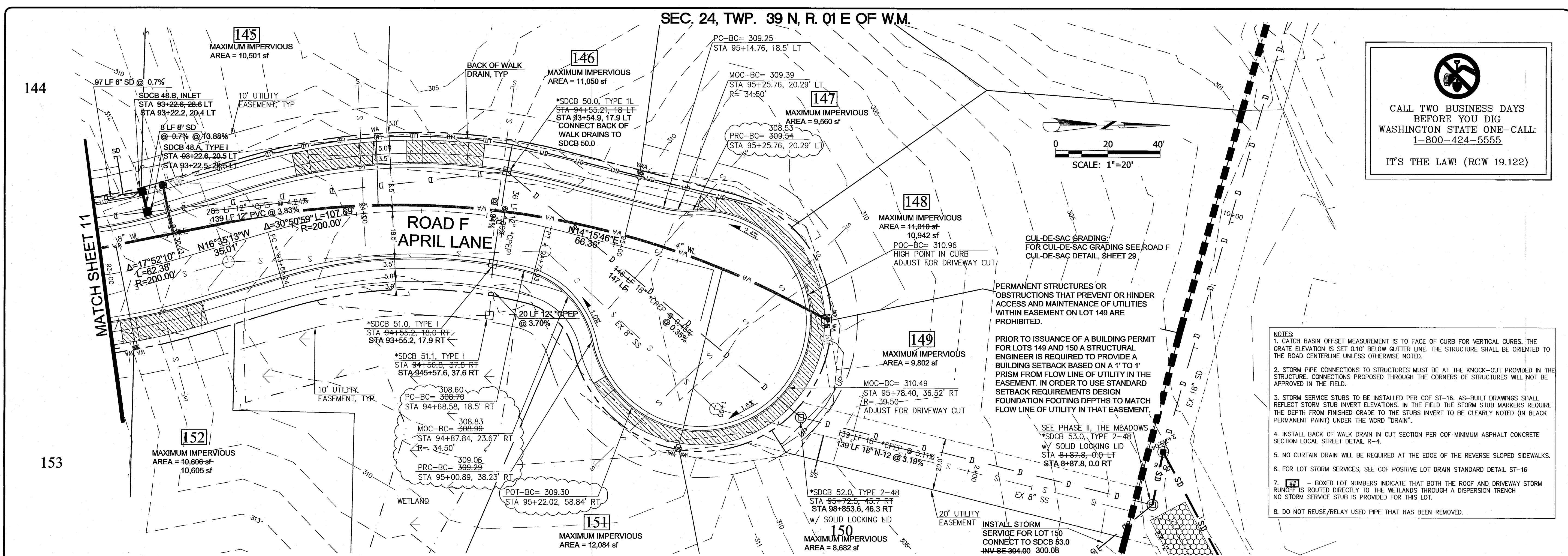
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[##] — BOXED LOT NUMBERS INDICATE THAT BOTH THE ROOF AND DRIVEWAY STORM RUNOFF IS ROUTED DIRECTLY TO THE WETLANDS THROUGH A DISPERSION TRENCH NO STORM SERVICE STUB IS PROVIDED FOR THIS LOT.

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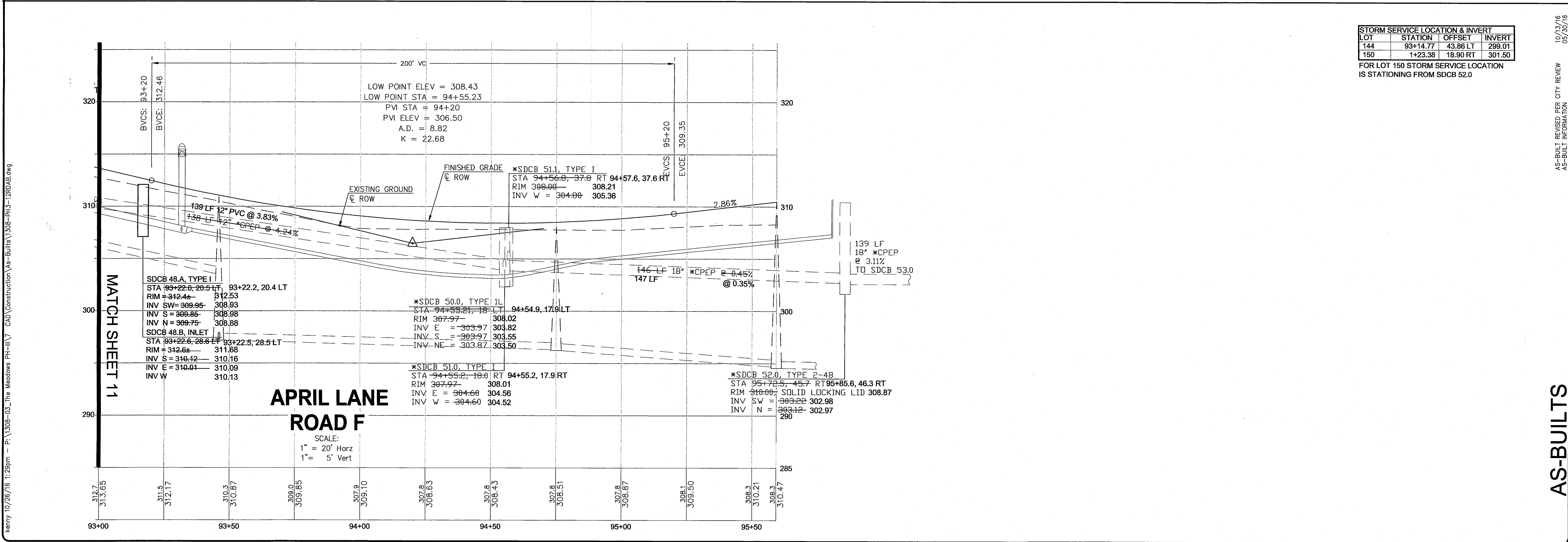
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STORM SERVICE LOCATION & INVERT

LOT	STATION	OFFSET	INVERT
144	93+14.77	43.86 LT	289.01
150	1+23.38	18.90 RT	301.50

FOR LOT 150 STORM SERVICE LOCATION IS STATIONING FROM SDCB 52.0



AS-BUILTS

PROJECT TITLE
THE MEADOWS - PHASE III
A PLANNED UNIT DEVELOPMENT
THORNTON ROAD
FERDALE, WA

DRAWING TITLE
ROAD F PLAN & PROFILE

DATE: 01/19/2015
DRAWING No. 12 of 29

REVISIONS / SUBMISSIONS

No.	DATE	REVISIONS
1	01/14/16	REVISED CDS CURVE ELEVATIONS
2	09/24/15	REVISED CDS CURVE ELEVATIONS
3	05/28/15	REVISED PER CITY COMMENTS
4	04/17/15	REVISED PER CITY COMMENTS
5	03/19/15	REVISED PER CITY COMMENTS

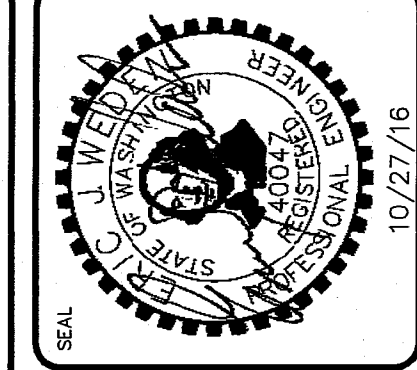
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CAD FILE: PROJECT NO. 1308-03

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(360) 561-1383 (360) 561-5615 FX
email: info@wedeneengineering.com

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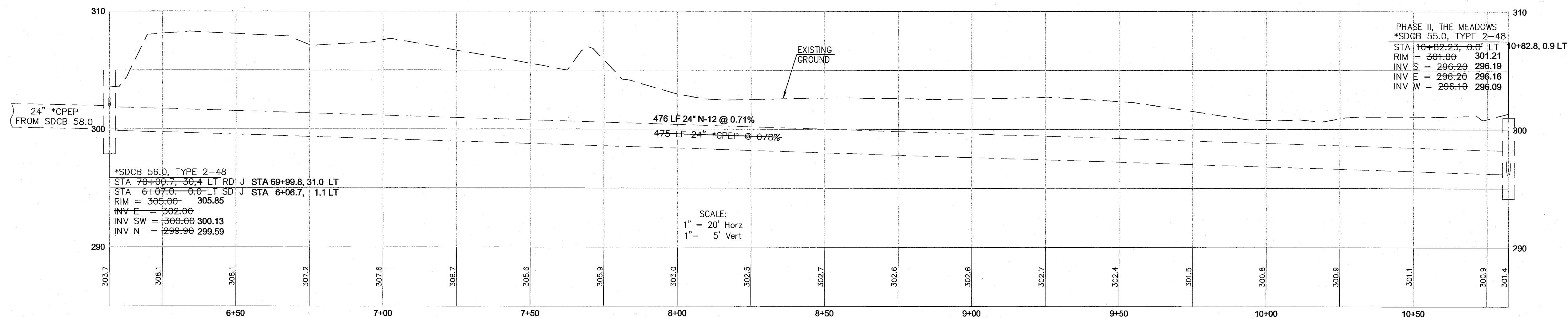
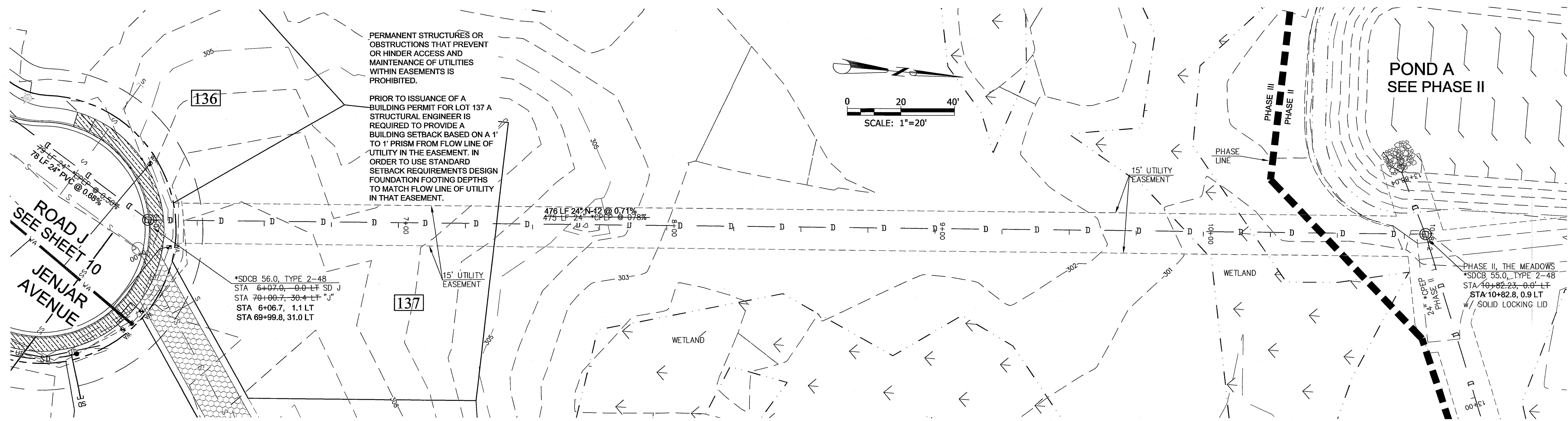


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00009.012 12/23/16 SH

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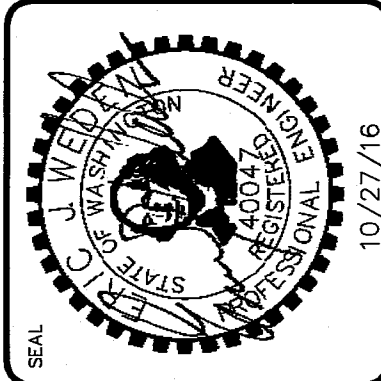


STORM MAIN FROM ROAD J TO POND A



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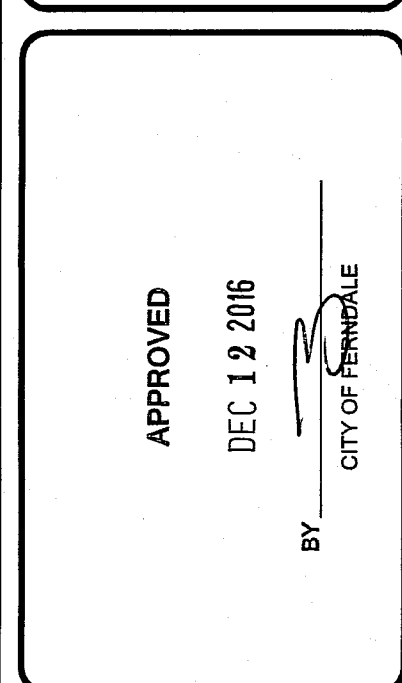
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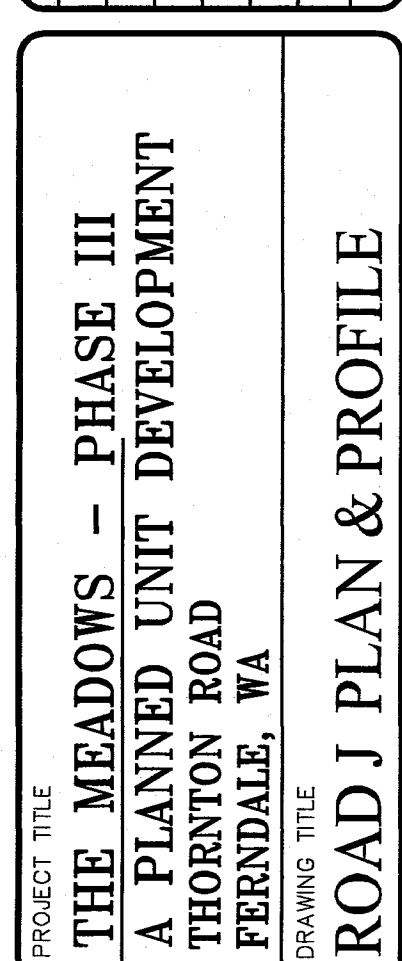
THE MEADOWS - PHASE III
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THORNTON ROAD
FERNDAL, WA
DRAWING TITLE
STORM MAIN SDJ PLAN & PROFILE

DATE: 01/19/2015
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13 of 29

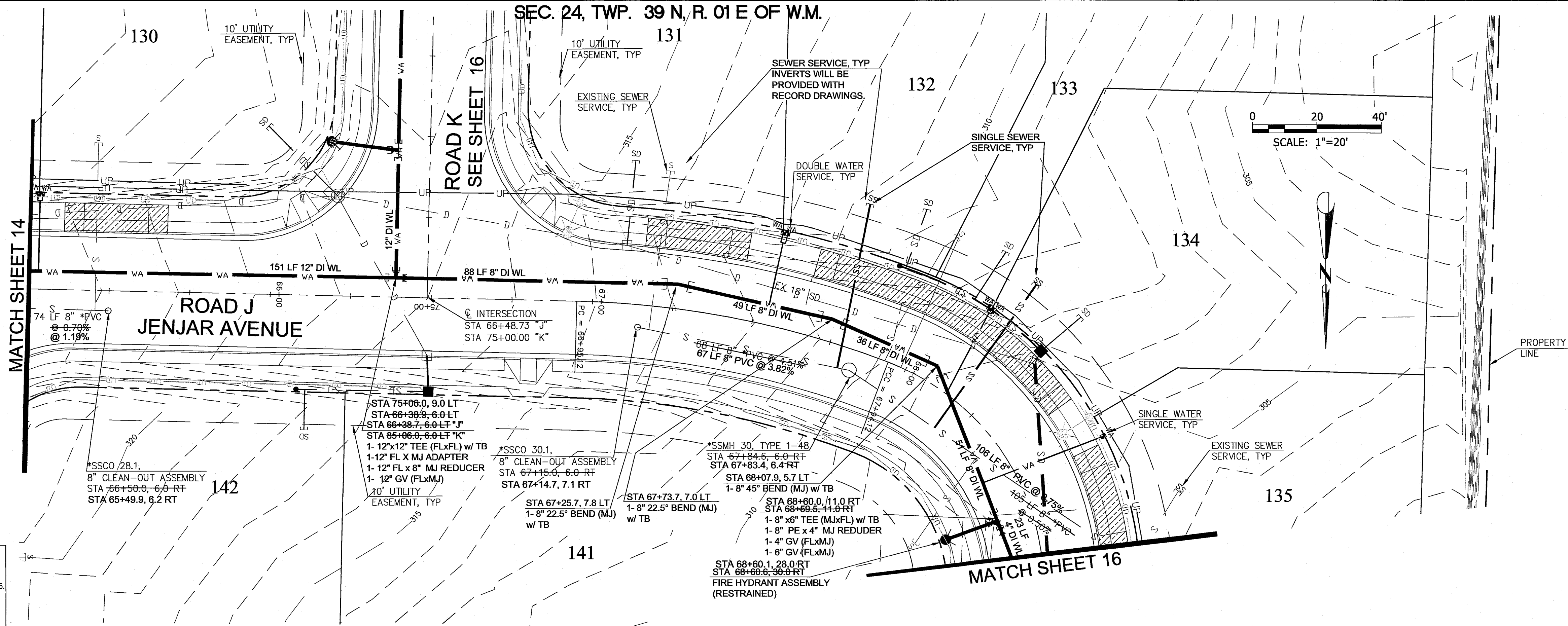


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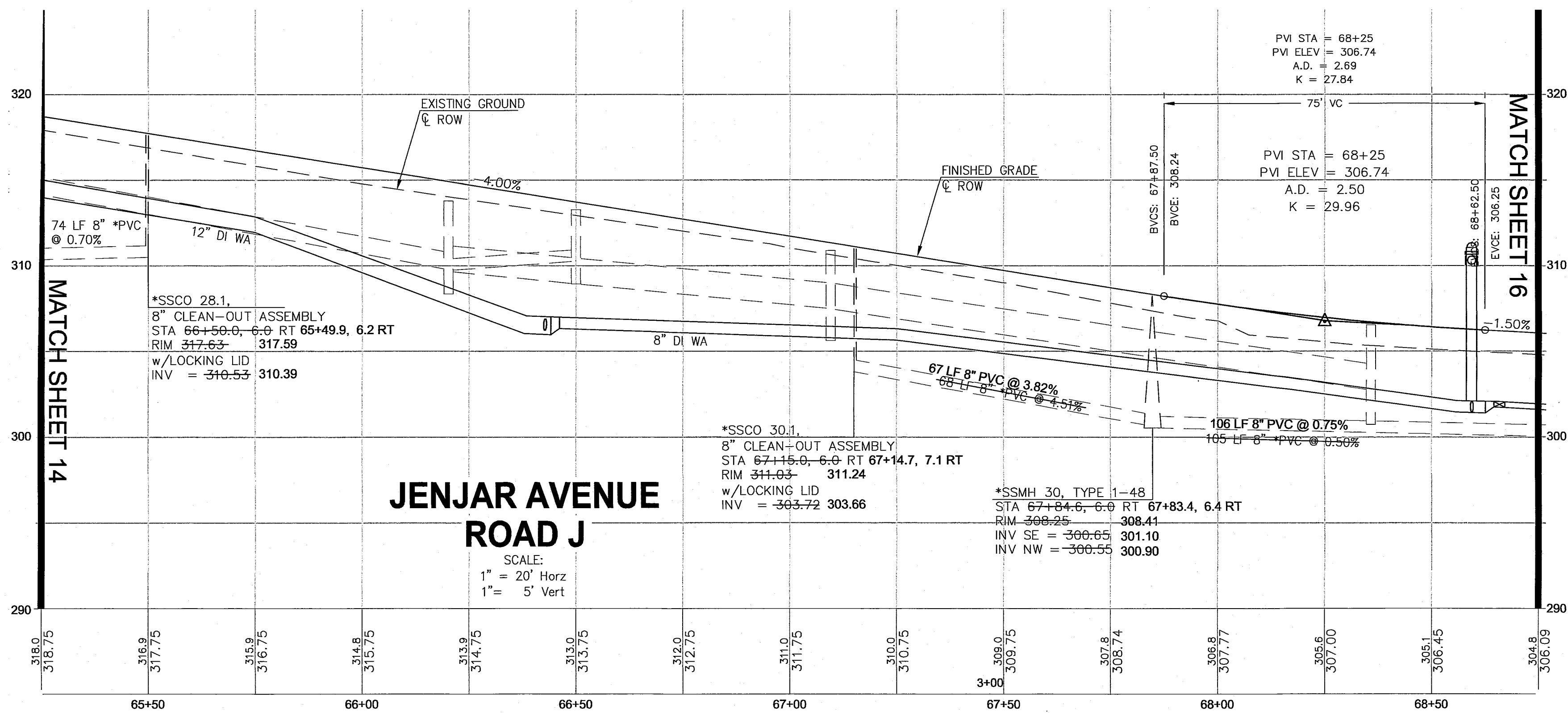
DATE : 01/19/2015
DRAWING No.
14 of 29



SANITARY SEWER SERVICE				
LOCATION & INVERT	STATION	OFFSET	INVERT	
130	65+45.70	45.82 LT	312.99	
131	67+19.72	42.15 LT	306.21	
132	67+74.50	44.59 LT	304.07	
133	67+98.36	44.04 LT	302.96	
134	68+16.15	43.84 LT	300.31	
135	68+65.71	45.48 LT	300.46	
141	68+56.25	37.43 RT	302.49	



- NOTE:
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 - WATERLINE FITTINGS ARE SHOWN WITH GENERIC SYMBOLS. CONTRACTOR TO SEE FITTING LABELS FOR TYPE, SIZE, AND CONNECTION TYPE.
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FERNDALE, WA**

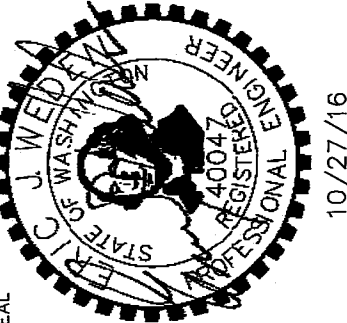
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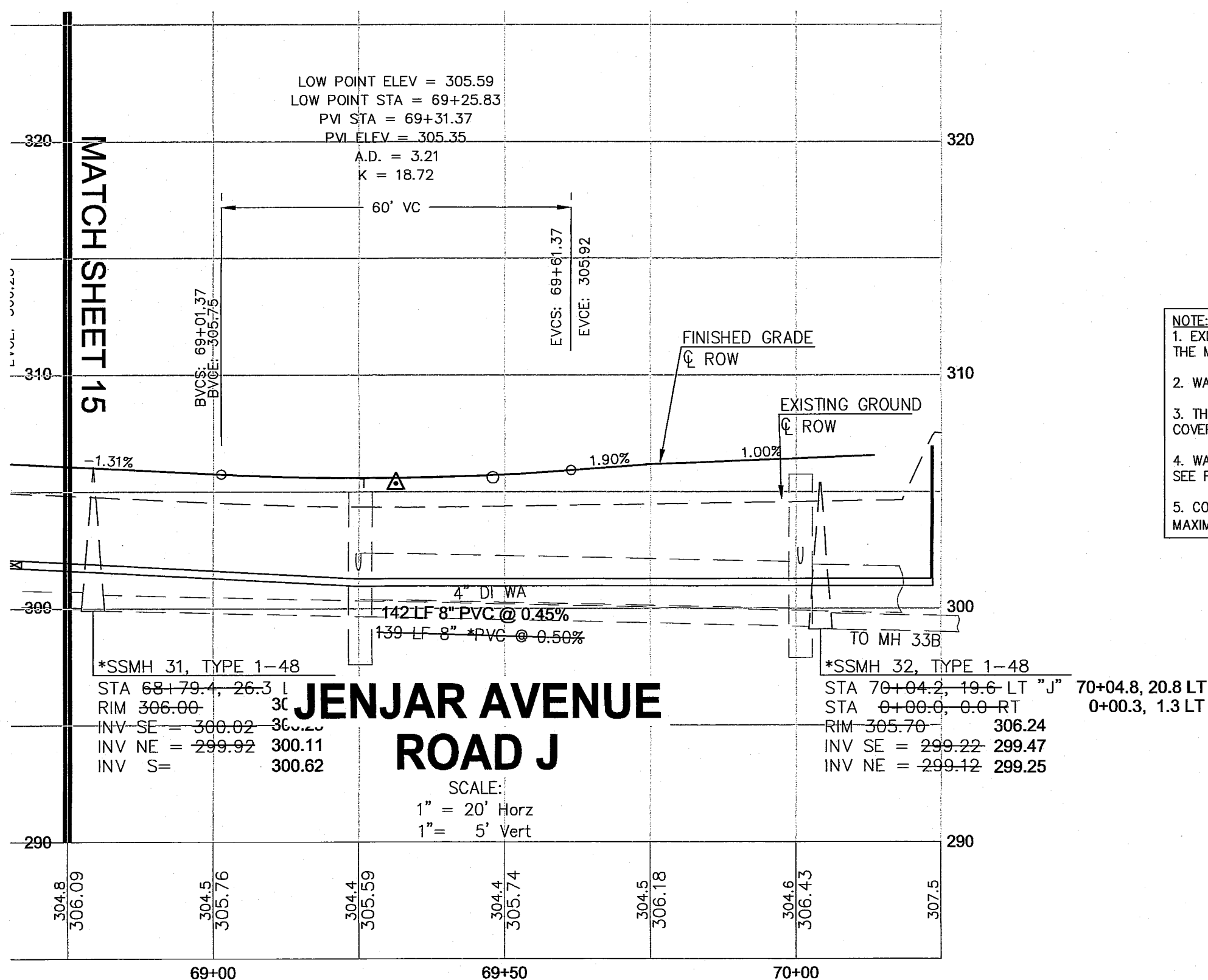
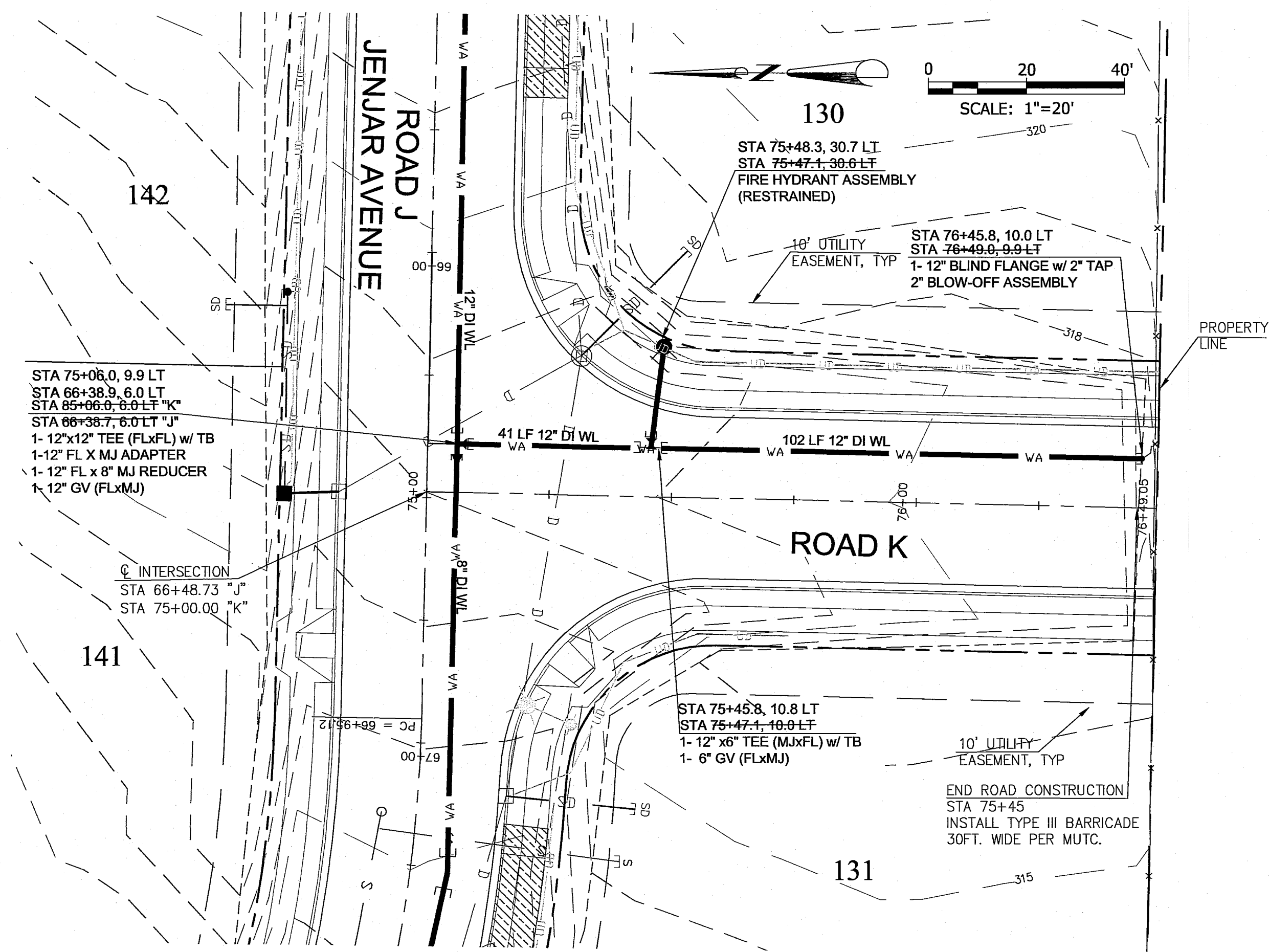
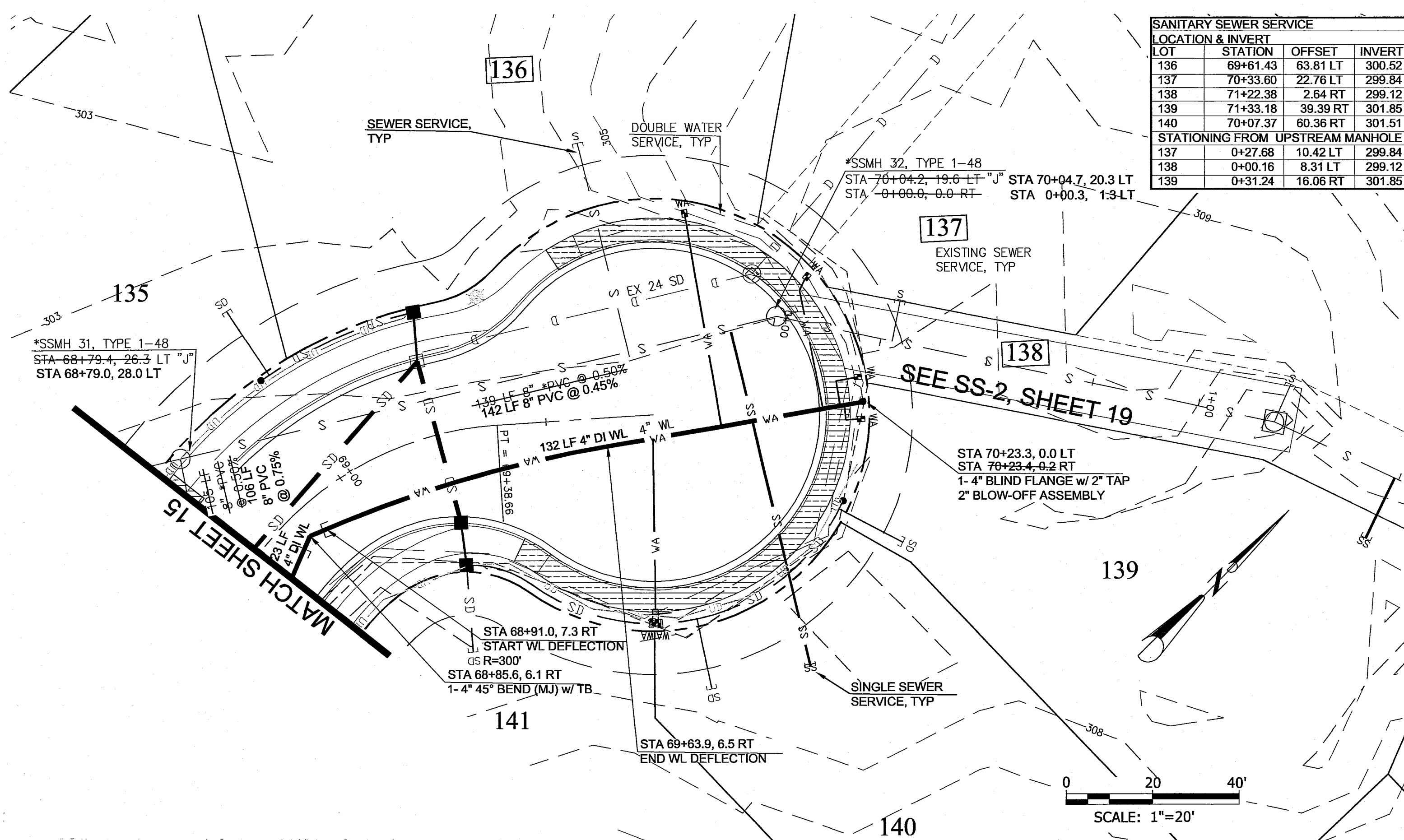
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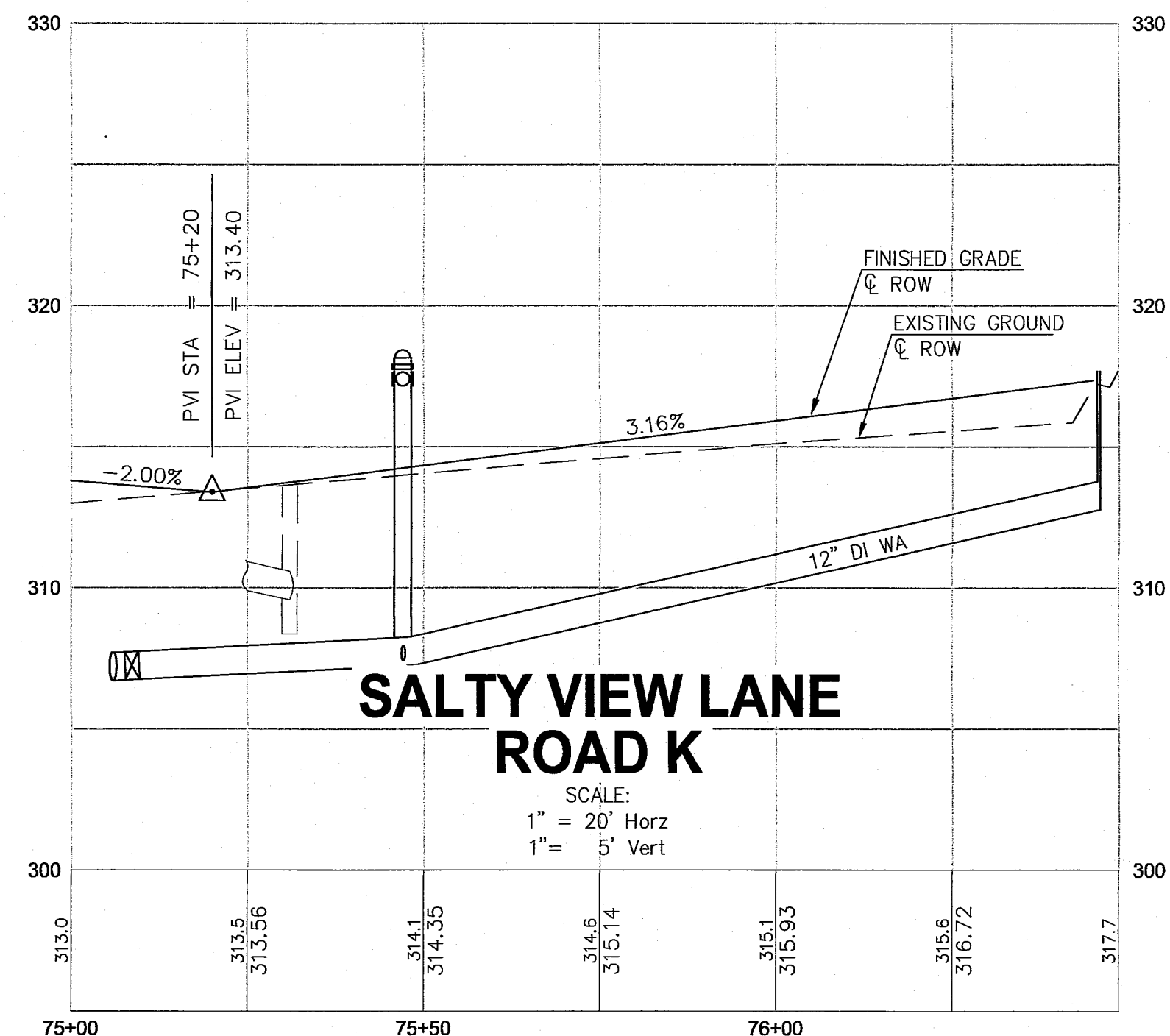
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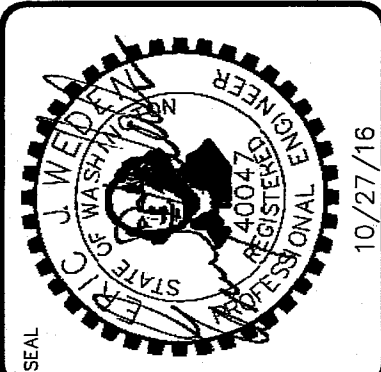


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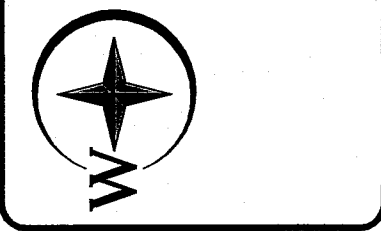
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7	CAD FILE:	PROJECT NO.: 1308-03

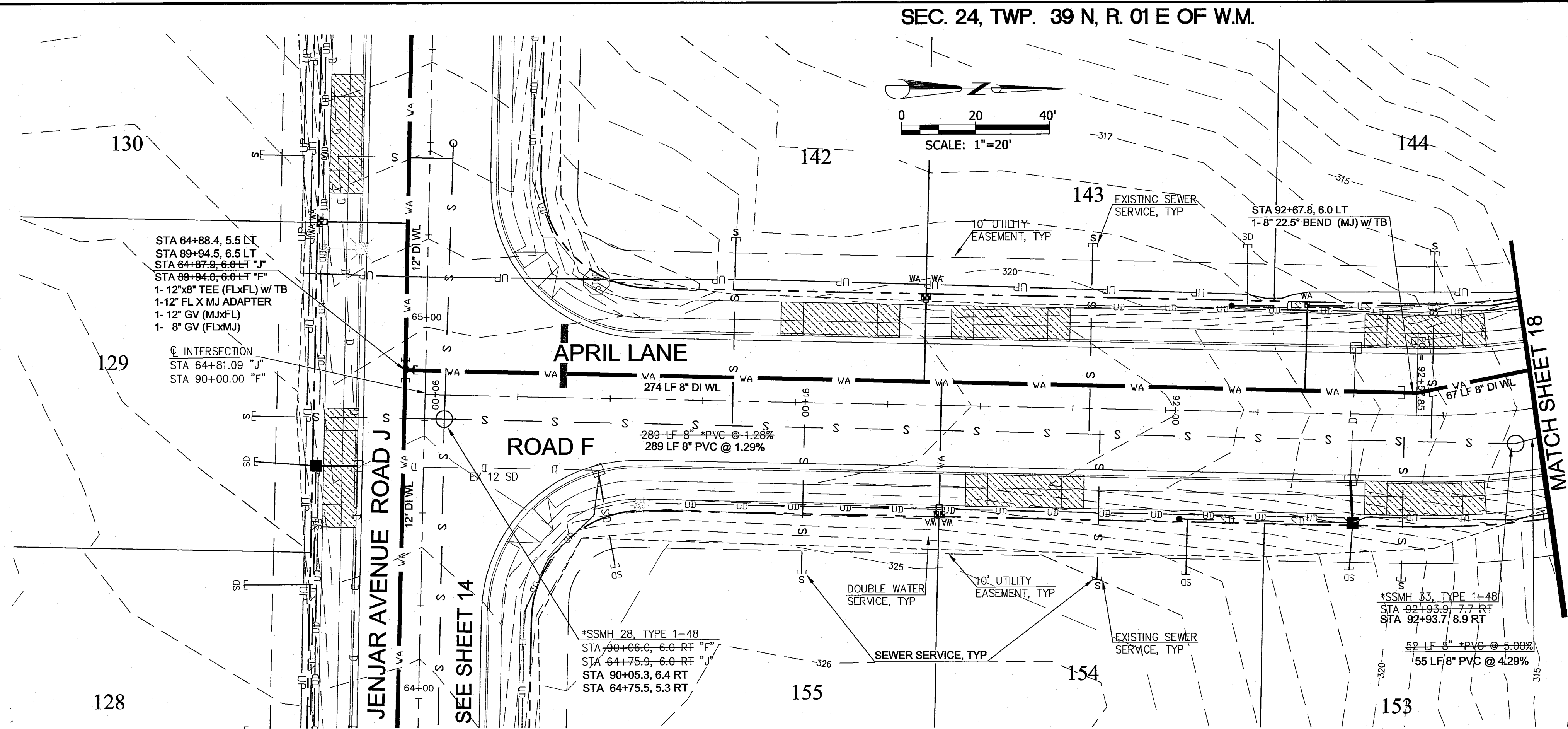
PROJECT TITLE
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THORNTON ROAD
FERNDALE, WA**

DRAWING TITLE
ROAD J & K PLAN & PROFILE

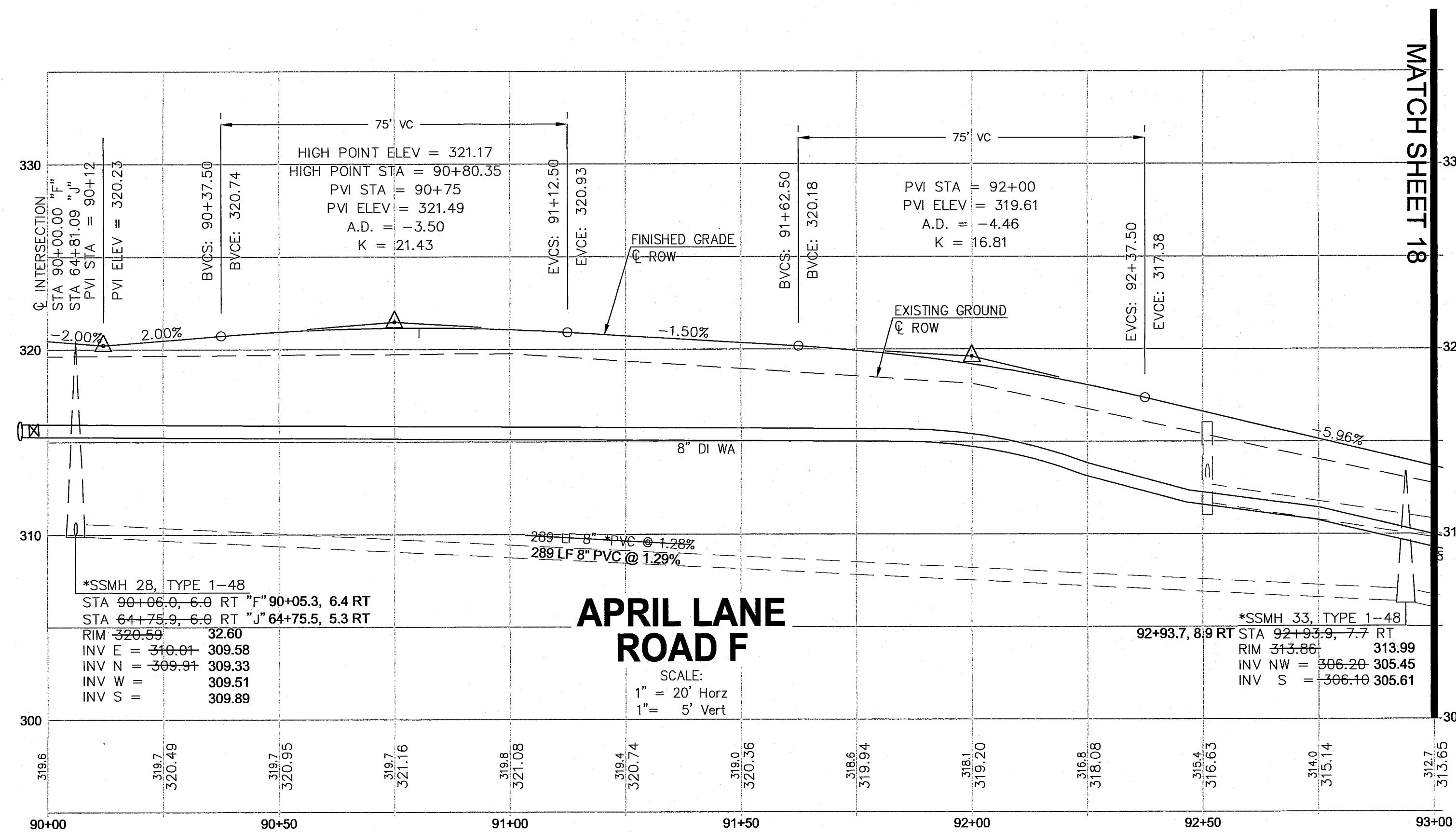
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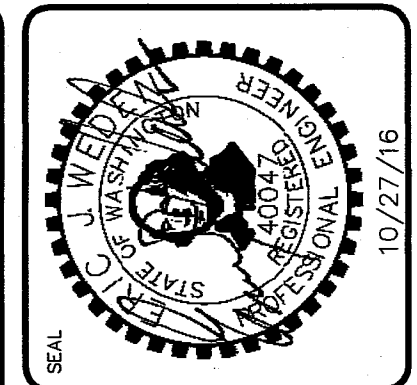
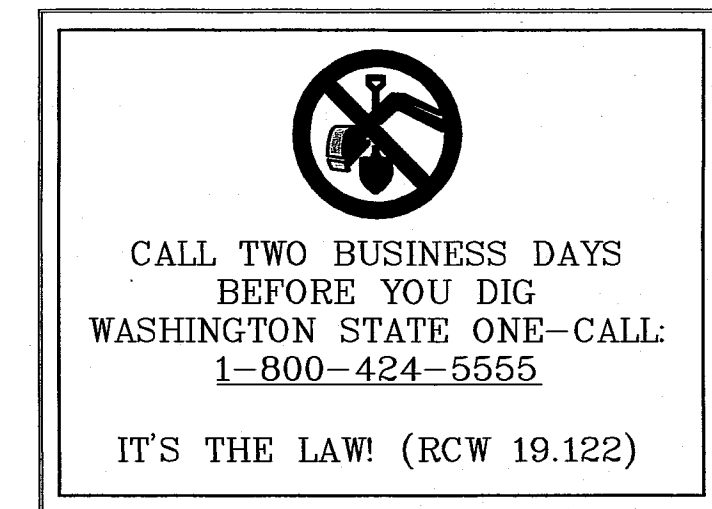
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SANITARY SEWER SERVICE			
LOCATION & INVERT	STATION	OFFSET	INVERT
142	90+82.96	43.91 LT	311.42
143	91+79.49	44.52 LT	310.83
144	92+73.05	44.07 LT	310.12
153	92+64.66	44.73 RT	317.65
154	91+82.55	46.08 RT	316.66
155	91+02.67	46.15 RT	315.97



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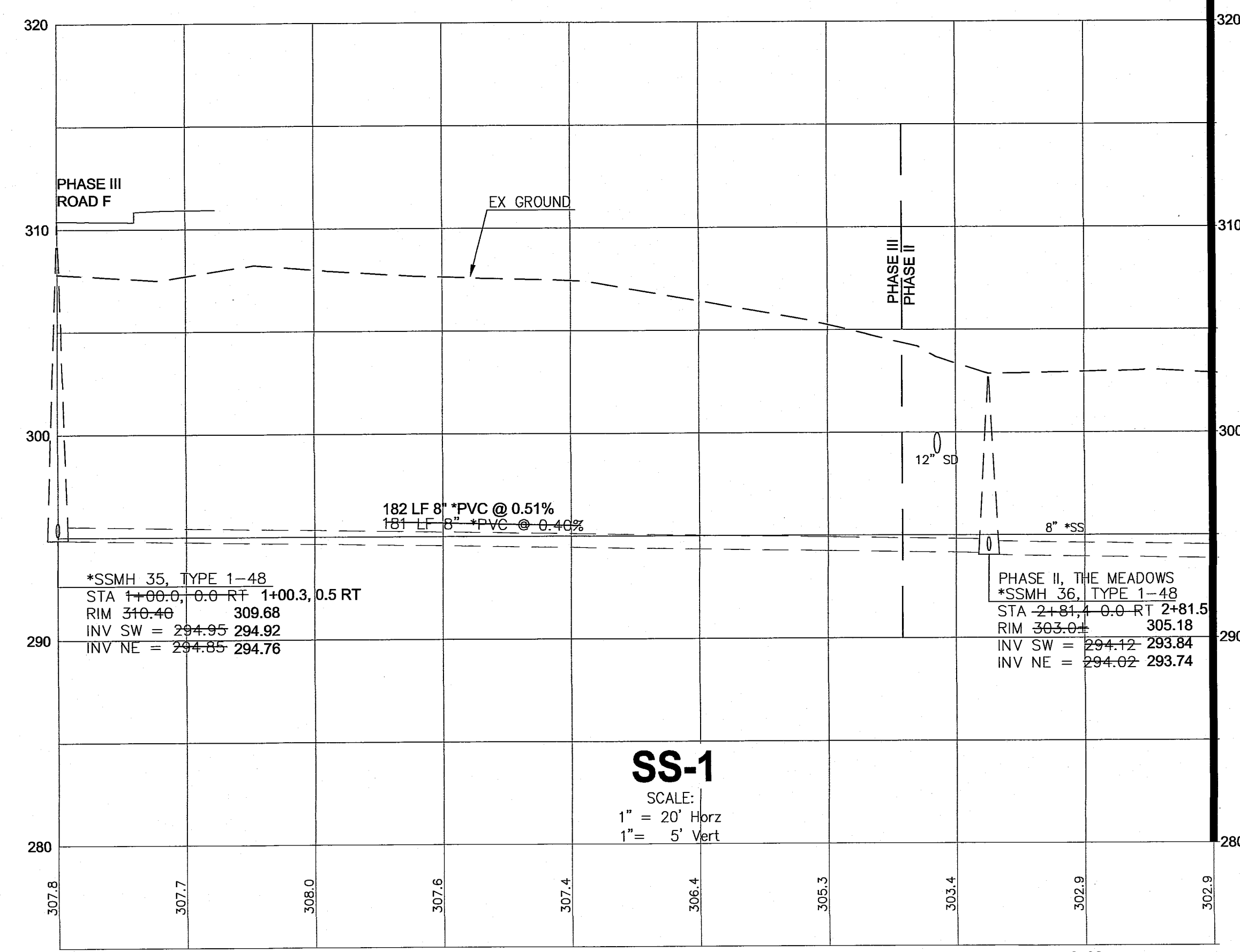
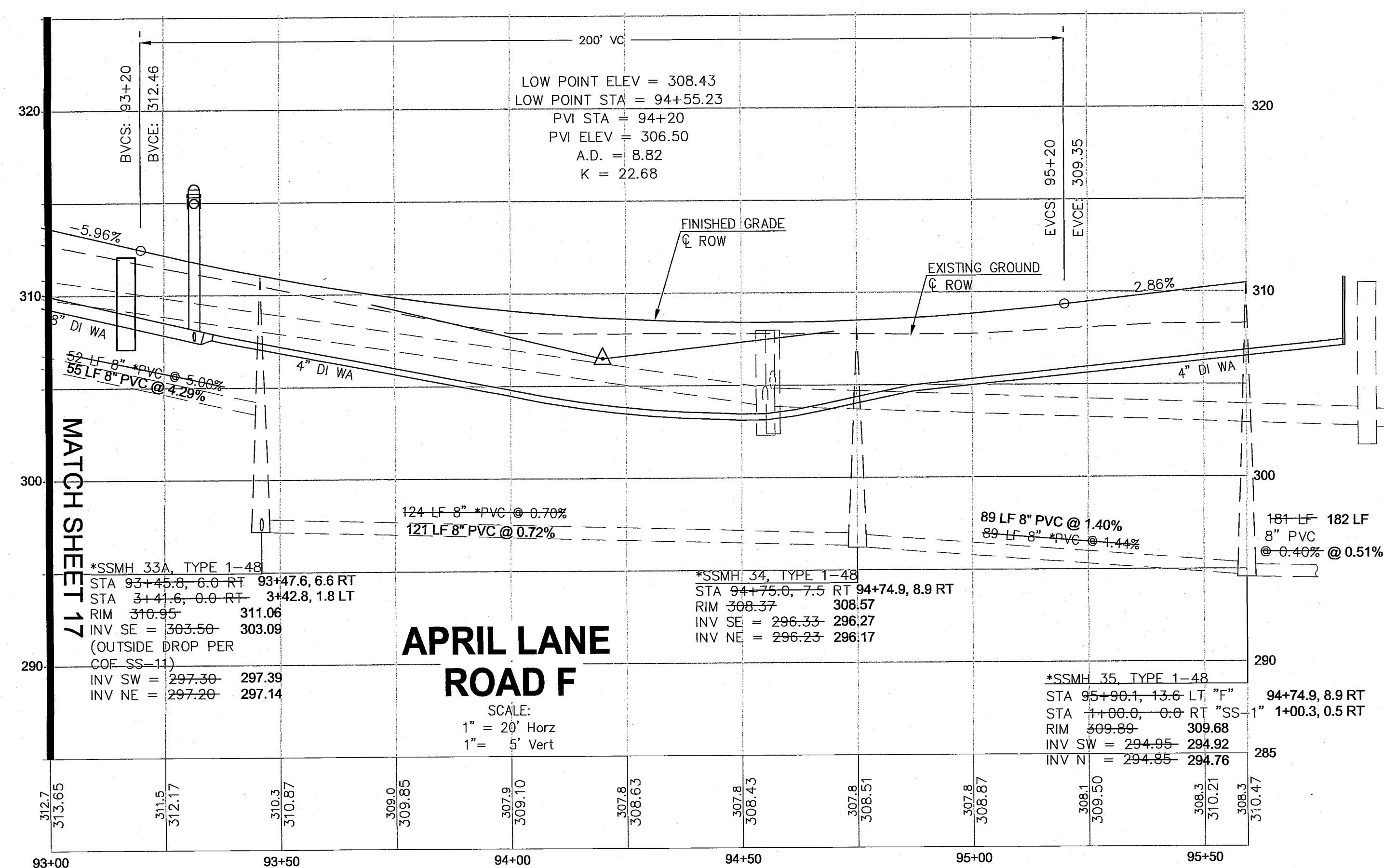
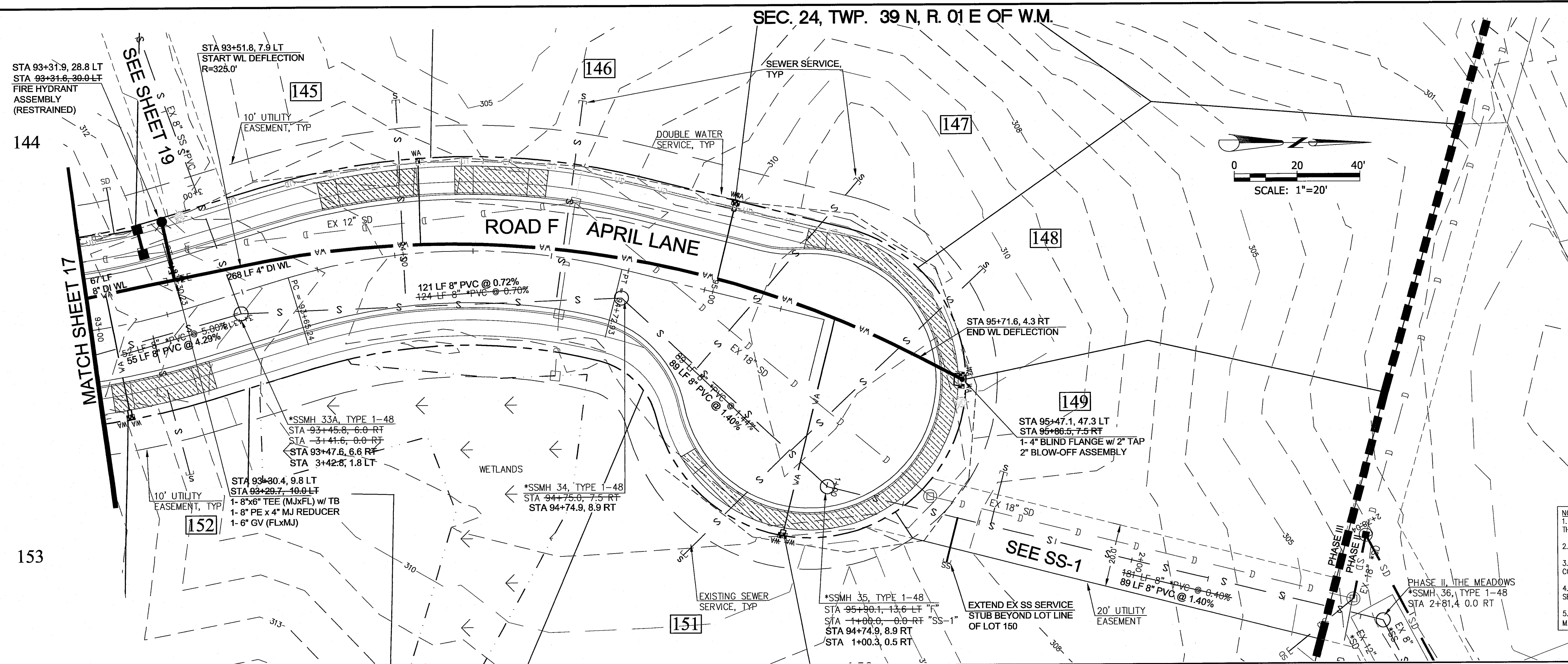
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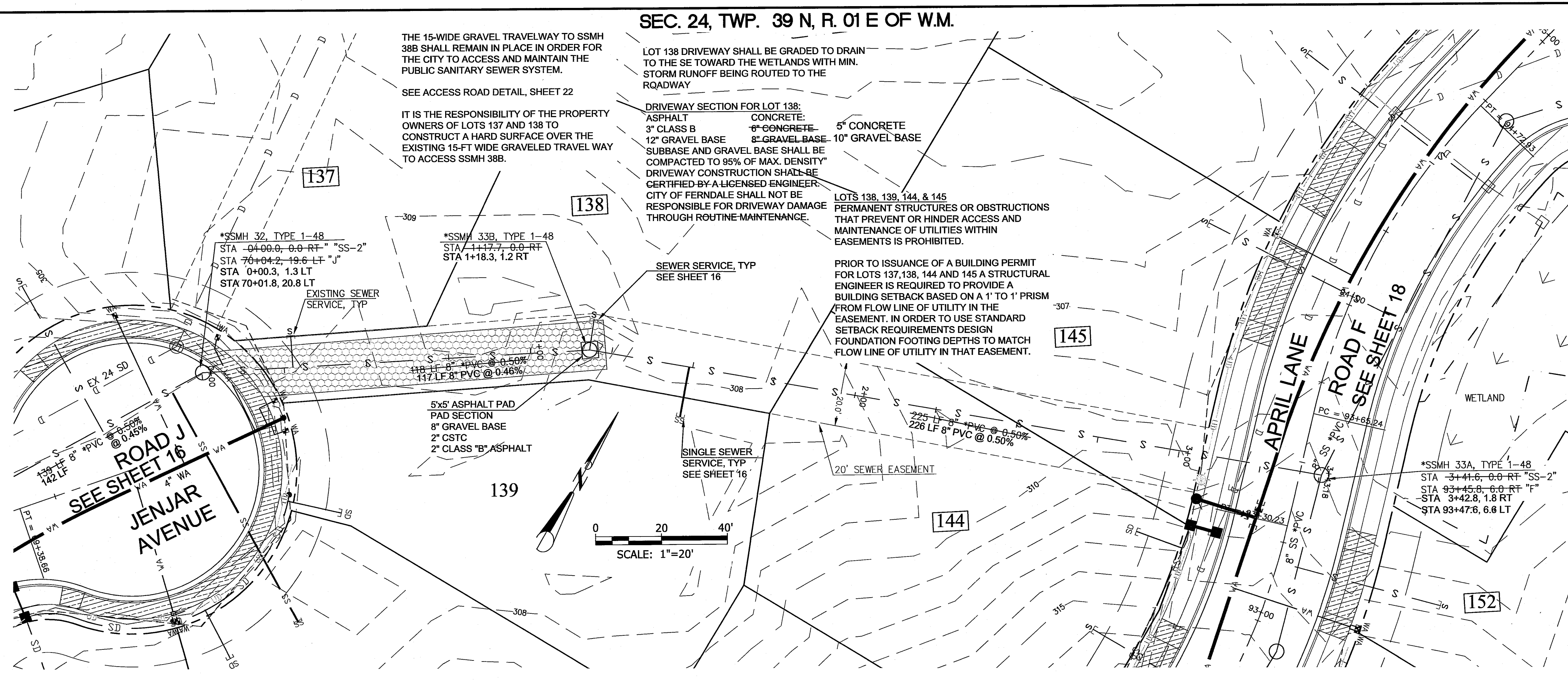
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FERNDAL, WA**

DRAWING TITLE
ROAD F PLAN & PROFILE

DATE: 01/19/2015
DRAWING No.

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SEC. 24, TWP. 39 N, R. 01 E OF W.M.

THE 15-WIDE GRAVEL TRAVELWAY TO SSMH 388 SHALL REMAIN IN PLACE IN ORDER FOR THE CITY TO ACCESS AND MAINTAIN THE PUBLIC SANITARY SEWER SYSTEM.

SEE ACCESS ROAD DETAIL, SHEET 22

IT IS THE RESPONSIBILITY OF THE PROPERTY OWNERS OF LOTS 137 AND 138 TO CONSTRUCT A HARD SURFACE OVER THE EXISTING 15-FT WIDE GRAVELED TRAVEL WAY TO ACCESS SSMH 388.

LOT 138 DRIVEWAY SHALL BE GRADED TO DRAIN TO THE SE TOWARD THE WETLANDS WITH MIN. STORM RUNOFF BEING ROUTED TO THE ROADWAY

DRIVEWAY SECTION FOR LOT 138:

ASPHALT CONCRETE
3" CLASS B 8" CONCRETE 5" CONCRETE
12" GRAVEL BASE 8" GRAVEL BASE 10" GRAVEL BASE
SUBBASE AND GRAVEL BASE SHALL BE COMPACTED TO 95% OF MAX. DENSITY
DRIVEWAY CONSTRUCTION SHALL BE CERTIFIED BY A LICENSED ENGINEER
CITY OF FERDALE SHALL NOT BE RESPONSIBLE FOR DRIVEWAY DAMAGE THROUGH ROUTINE MAINTENANCE

LOTS 138, 139, 144, & 145 PERMANENT STRUCTURES OR OBSTRUCTIONS THAT PREVENT OR HINDER ACCESS AND MAINTENANCE OF UTILITIES WITHIN EASEMENTS IS PROHIBITED.

PRIOR TO ISSUANCE OF A BUILDING PERMIT FOR LOTS 137, 138, 144 AND 145 A STRUCTURAL ENGINEER IS REQUIRED TO PROVIDE A BUILDING SETBACK BASED ON A 1' TO 1' PRISM FROM FLOW LINE OF UTILITY IN THE EASEMENT. IN ORDER TO USE STANDARD SETBACK REQUIREMENTS DESIGN FOUNDATION FOOTING DEPTHS TO MATCH FLOW LINE OF UTILITY IN THAT EASEMENT.

SEWER SERVICE, TYP SEE SHEET 16

SINGLE SEWER SERVICE, TYP SEE SHEET 16

20' SEWER EASEMENT

ROAD F SEE SHEET 18

APRILL LANE

ROAD J
JENJAR AVENUE

*SSMH 32, TYPE 1-48
STA 0+00.0, 0.0 RT "SS-2"
STA 70+04.2, 19.6 LT "J"
STA 0+00.3, 1.3 LT
STA 70+01.8, 20.8 LT

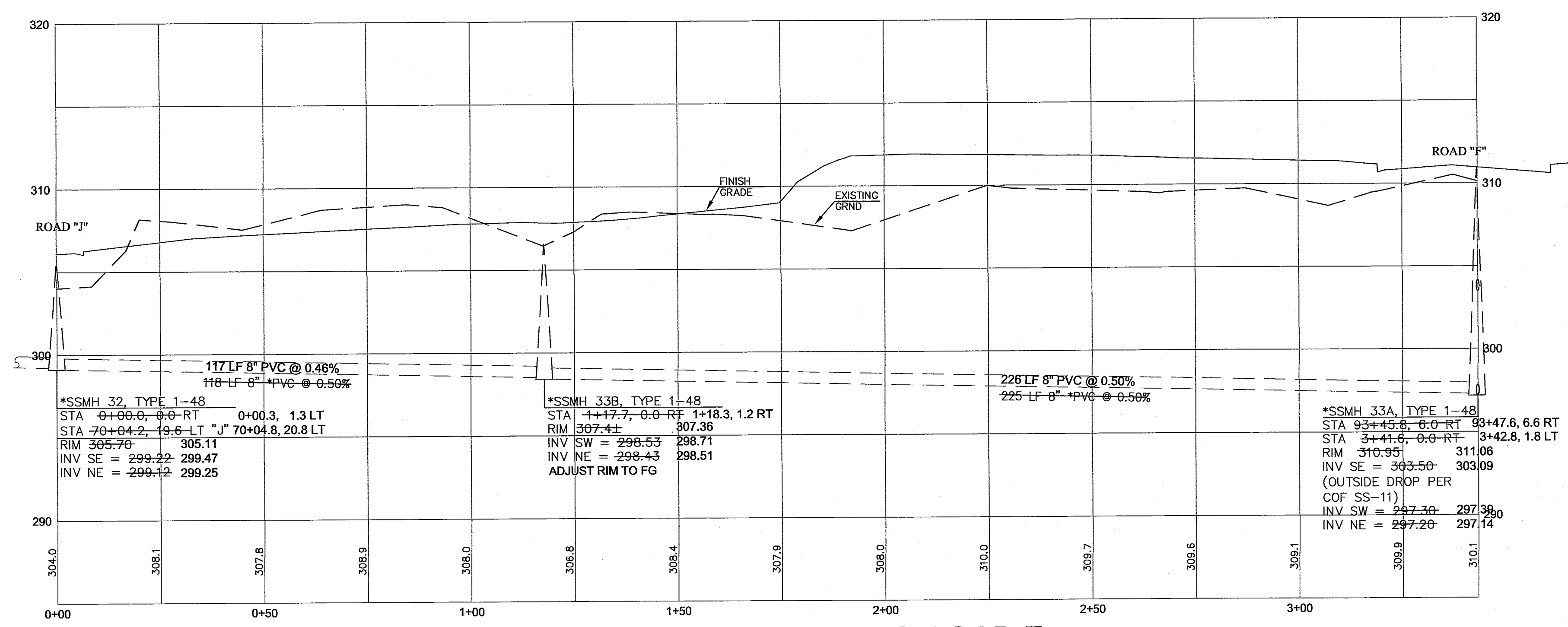
*SSMH 33B, TYPE 1-48
STA 1+17.7, 0.0 RT
STA 1+18.3, 1.2 RT

5x5' ASPHALT PAD
PAD SECTION
8" GRAVEL BASE
2" CSTC
2" CLASS "B" ASPHALT

*SSMH 33A, TYPE 1-48
STA 93+47.6, 6.6 RT "SS-2"
STA 93+45.8, 6.0 RT "F"
STA 3+42.8, 1.8 RT
STA 93+47.6, 6.6 LT

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FOR SANITARY SEWER SERVICE INFORMATION FOR LOTS 137, 138 & 139, SEE SHEET 16



SS-2, SANITARY SEWER FROM ROAD J TO ROAD F

SCALE:
1" = 20' Horz
1" = 5' Vert

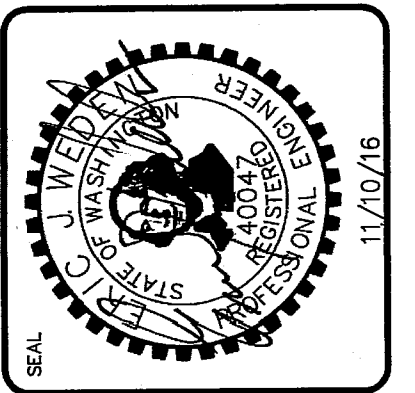
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REVIEWED: EJM		DRAWN: KLS
CAD FILE:		PROJECT NO.: 1308-03

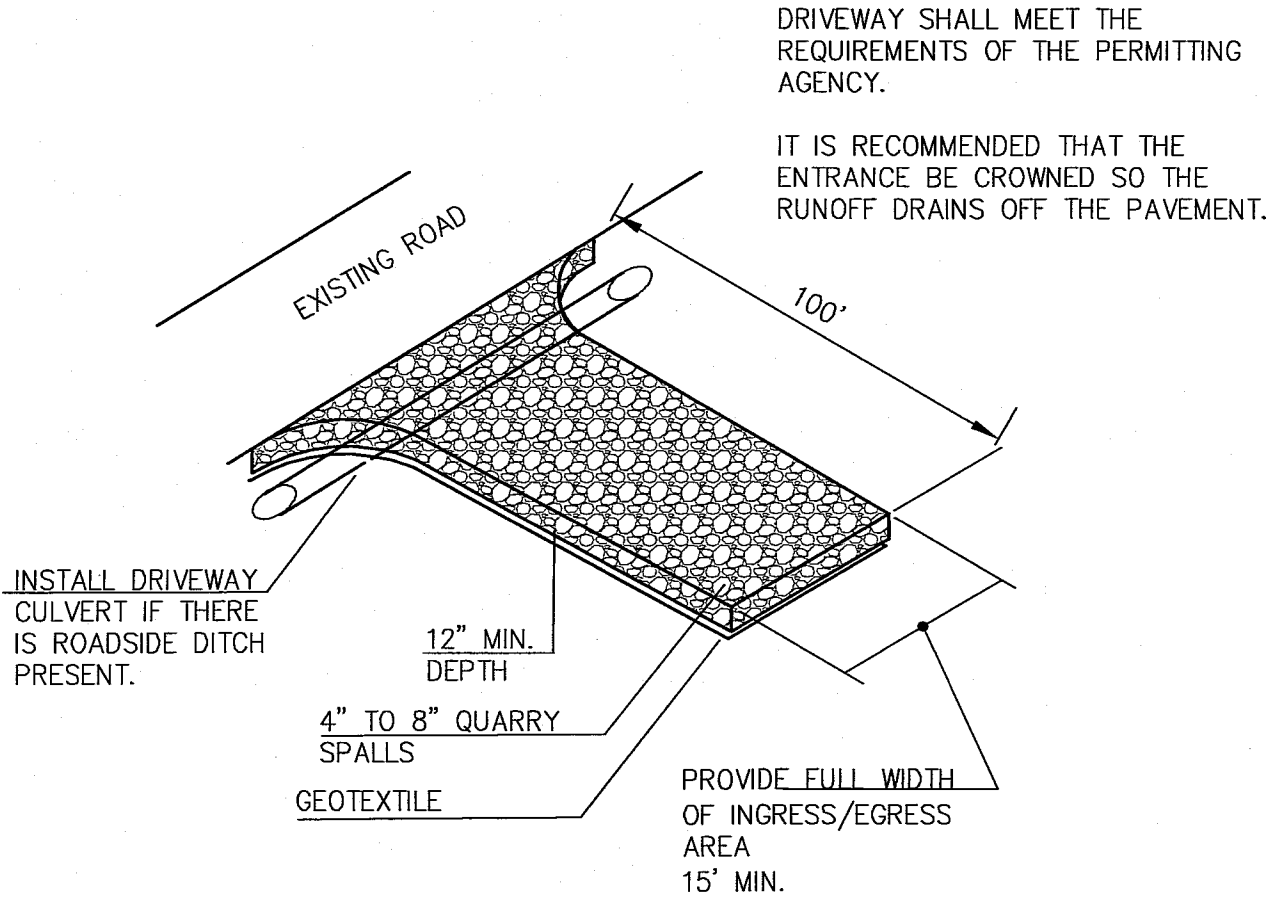
PROJECT TITLE
THE MEADOWS - PHASE III
A PLANNED UNIT DEVELOPMENT
THORNTON ROAD
FERDALE, WA
DRAWING TITLE
SS-2 PLAN & PROFILE

DATE: 01/19/2015
DRAWING No.
19 of 29



WEDEN ENGINEERING, LLC
Civil Engineering - Planning - Project Management
2636 Nuboard Rd, Ferndale, WA 98248
(360) 380-1363 (360) 384-3615 Fx
email: info@wedeneng.com

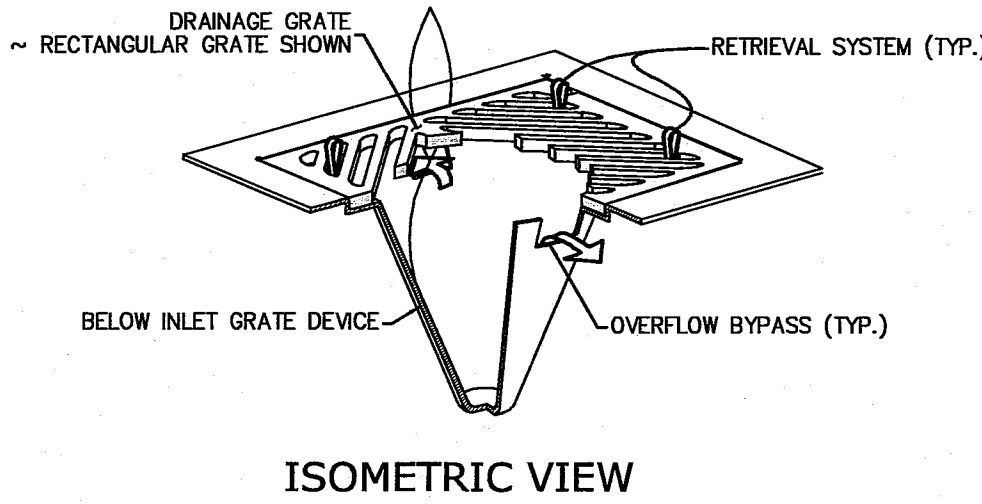
APPROVED
DEC 12 2016
BY: [Signature]
CITY OF FERDALE



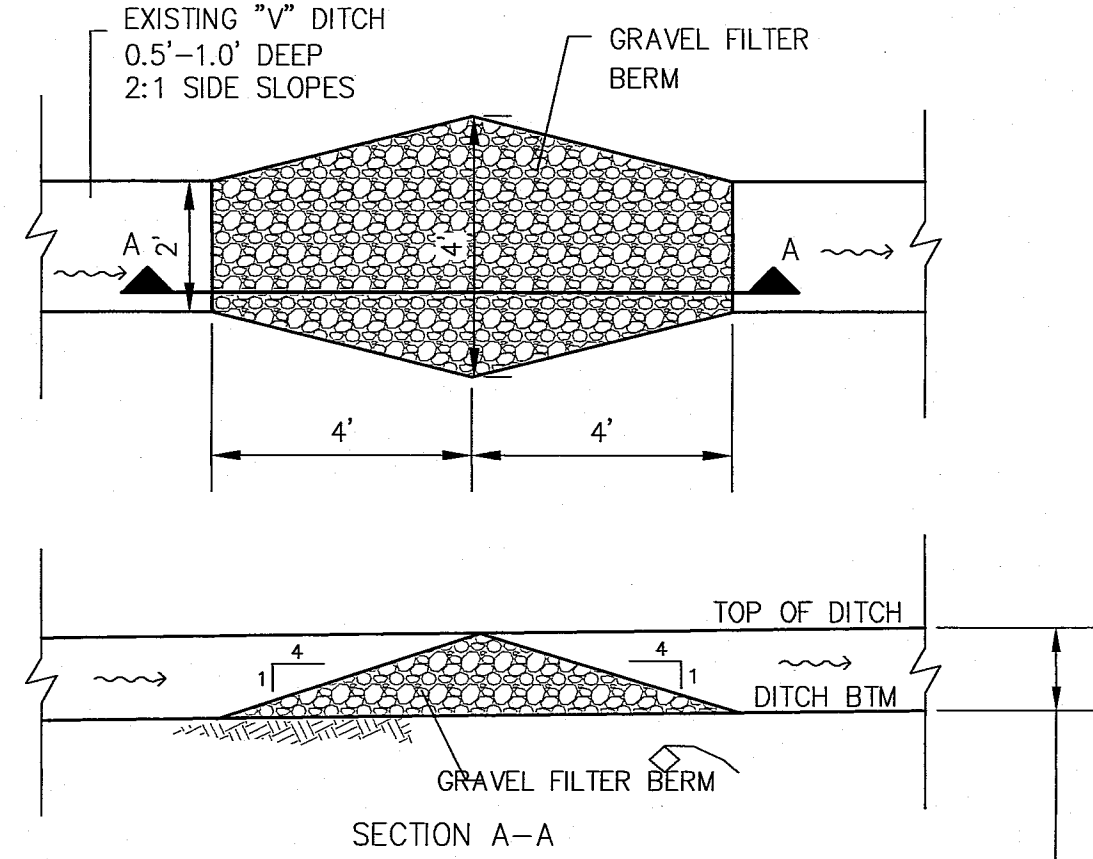
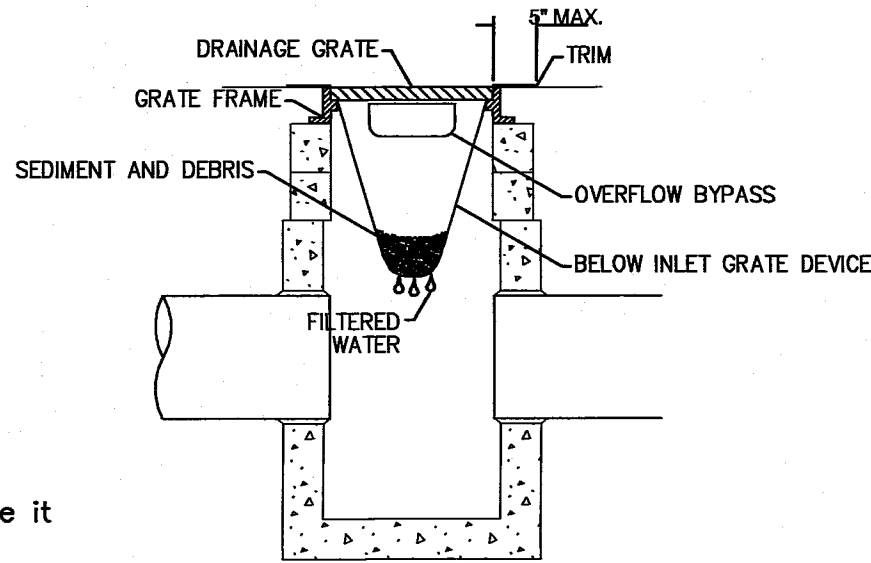
STABILIZED CONSTRUCTION ACCESS

DOE MANUAL BMP C105

N.T.S.



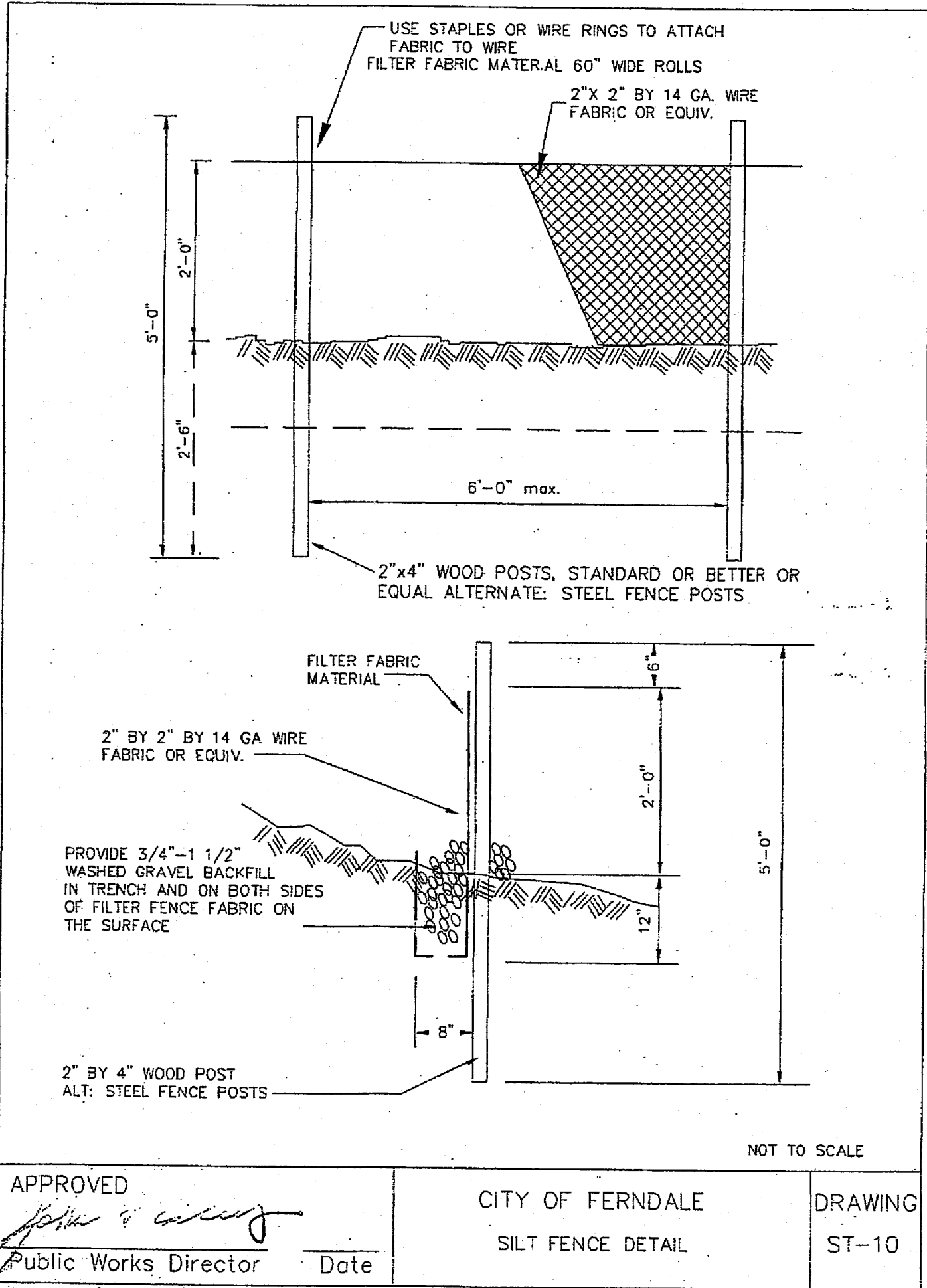
1. Size the Below Inlet Grate Device (BIGD) for the storm water structure it will service.
2. The BIGD shall have a built-in high-flow relief system (overflow bypass).
3. The retrieval system must allow removal of the BIGD without spilling the collected material.
4. Perform maintenance in accordance with Standard Specification 8-01.3(15).



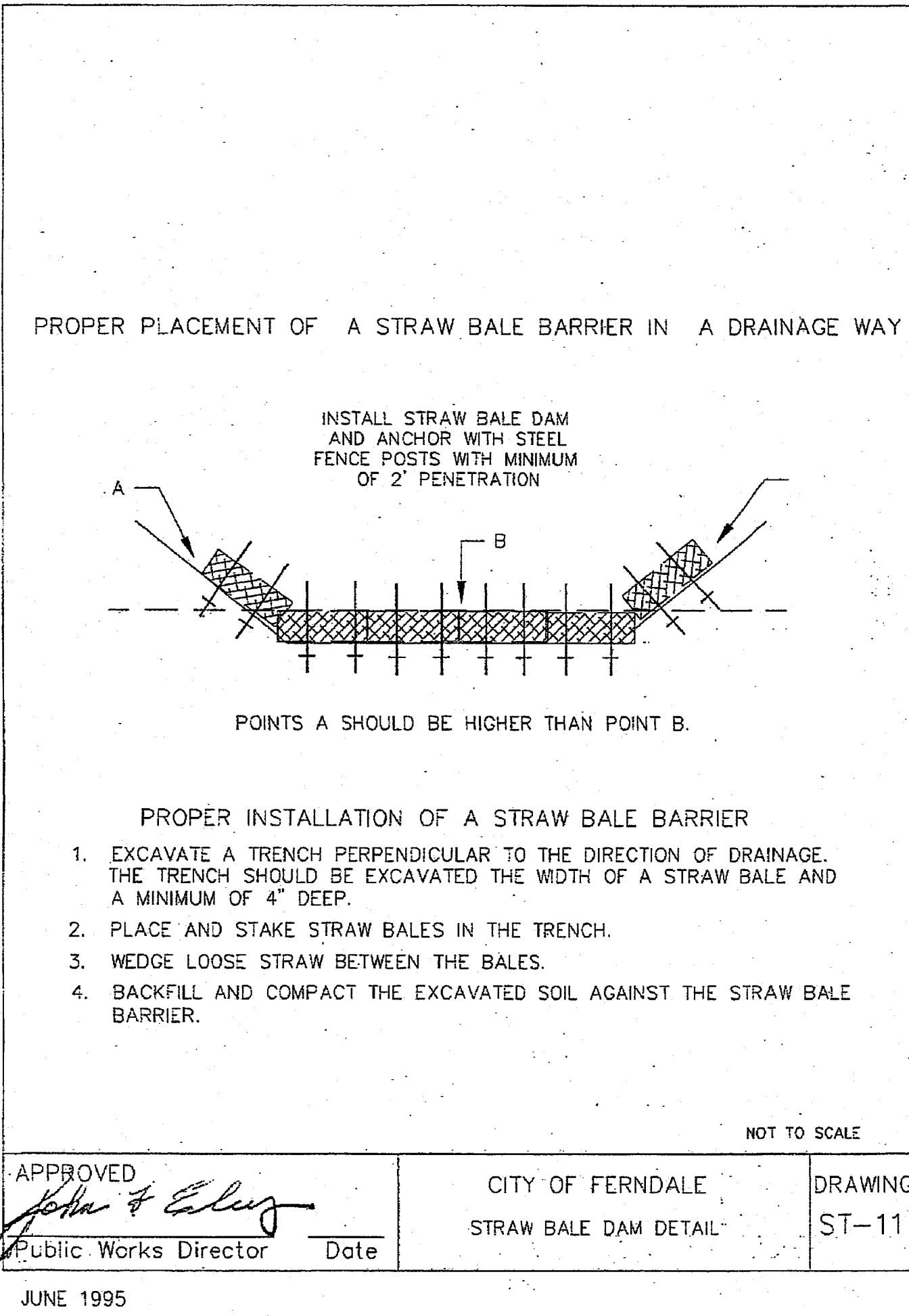
NOTE:
BERM MATERIAL SHALL BE 3/4" TO 3 INCHES IN SIZE, WASHED, WELL-GRADED GRAVEL OR CRUSHED ROCK WITH LESS THAN 5 PERCENT FINES. SEDIMENT SHALL BE REMOVED AND FILTER MATERIAL REPLACED AS NEEDED.

GRAVEL FILTER BERM

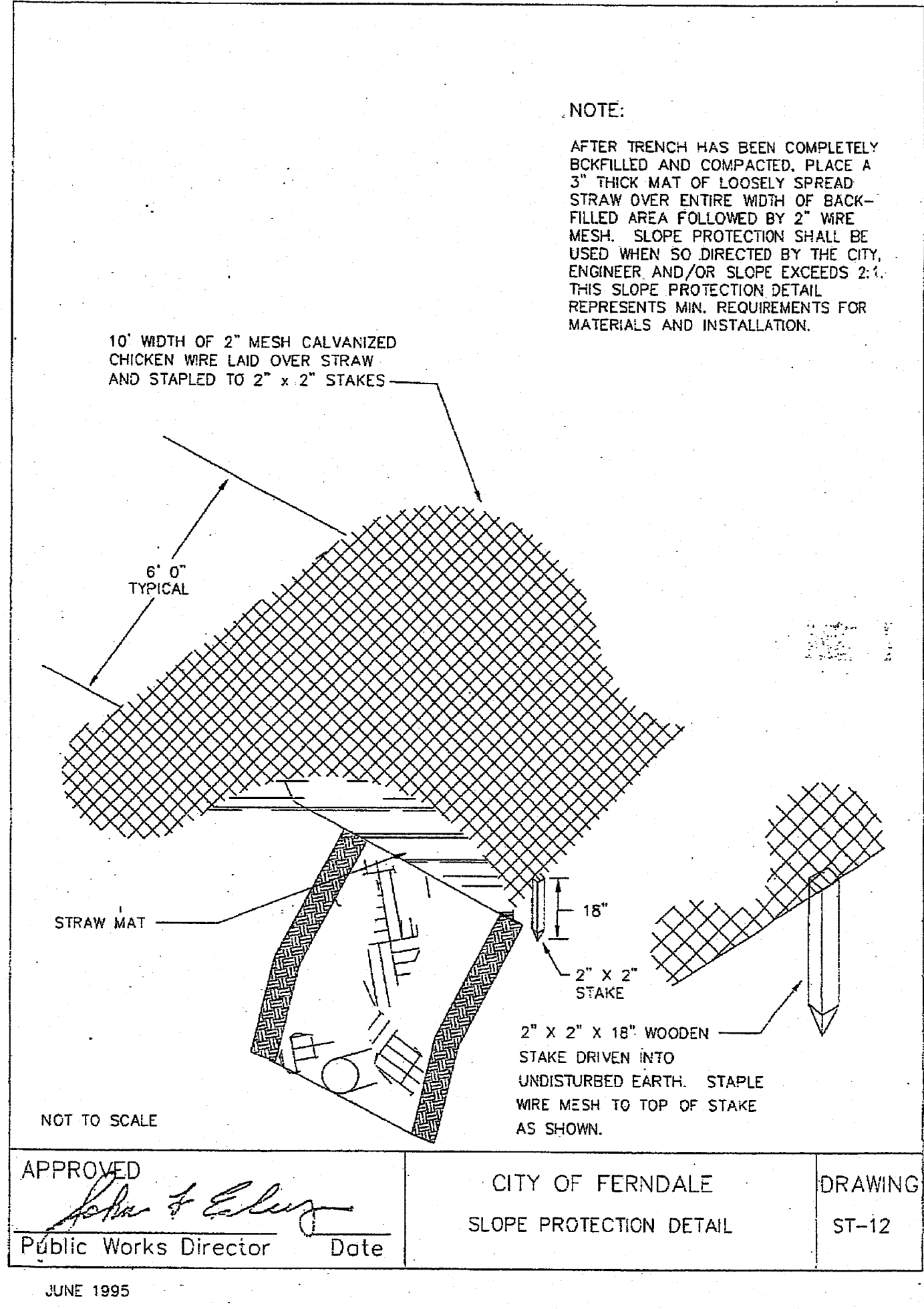
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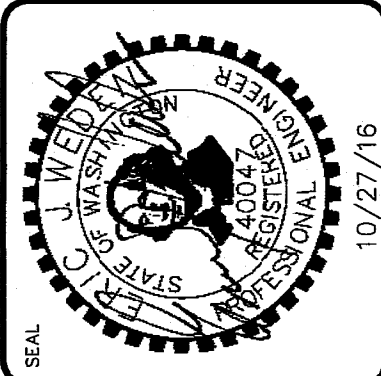
JUNE 1995



JUNE 1995



JUNE 1995



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(360) 924-1183
email: info@wedeneng.com

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BY

CITY OF FERNDAL

No.	REVISIONS / SUBMISSIONS	DATE
AS-BUILT	REVIEWED PER CITY	10/13/16
AS-BUILT	INFORMATION	05/29/16
3	REVISIONS PER CITY COMMENTS	05/29/15
2	REVISIONS PER CITY COMMENTS	04/17/15
1	REVISIONS PER CITY COMMENTS	03/19/15
DRAWN: KLS		
CAD FILE: EJV		
PROJECT NO.: 1308-03		

AS-BUILTS

PROJECT TITLE

THE MEADOWS - PHASE III

A PLANNED UNIT DEVELOPMENT

THORNTON ROAD

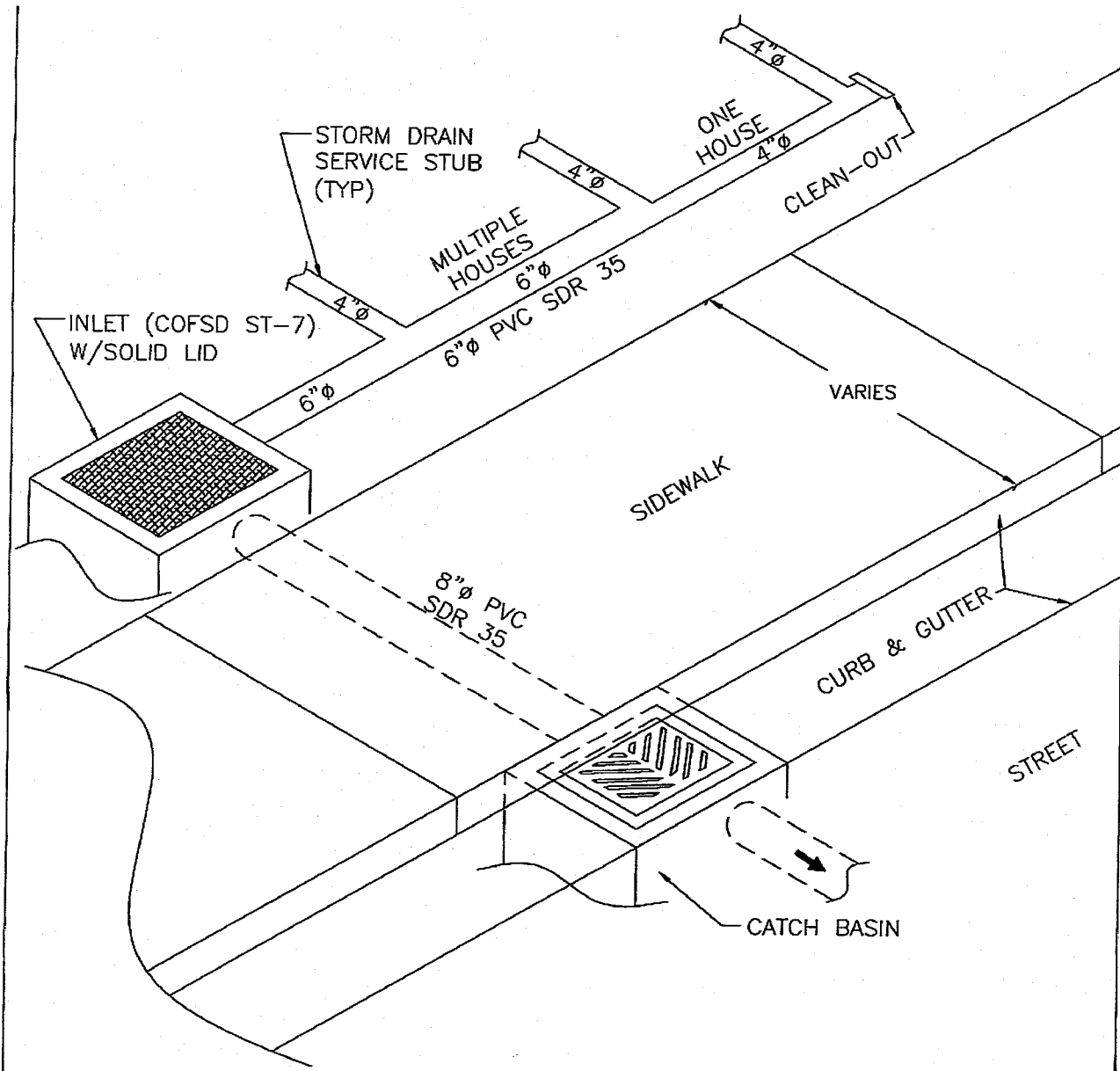
FERNDAL, WA

DRAWING TITLE

SWPPP DETAILS

DATE: 01/19/2015

DRAWING No.



- NOTES:
- ENGINEER SHALL DESIGN ALL STORM DRAIN SERVICE STUB INVERT ELEVATIONS TO FACILITATE 2% SLOPE FROM 2' BELOW THE LOWEST POINT OF THE BUILDING ENVELOPE.
 - STORM DRAIN SERVICE STUB SHALL BE 4" WHITE PVC PIPE ASTM D 3034 SDR 35.
 - TRUNK LINE FOR MULTIPLE RESIDENTIAL STORM DRAIN SERVICE STUBS SHALL BE 6" WHITE PVC PIPE CONNECTED TO COFSD ST-7 INLET.
 - EACH COFSD ST-7 INLET SHALL BE CONNECTED TO A NEARBY TYPE 1, TYPE 1L OR TYPE 2 CATCH BASIN WITH 8" WHITE PVC PIPE.
 - EACH STORM DRAIN SERVICE STUB SHALL BE CAPPED WITH WATERTIGHT PLUG. EACH STUB SHALL BE MARKED FOR LOCATION WITH A 2" DIA. WHITE PVC PIPE (MIN. SCHEDULE 40) WITH THE TOP 18" STENCILED WITH THE WORD "DRAIN" AND THE PIPE INVERT INDICATED. THE LOCATION MARKER SHALL BE CONNECTED TO THE SERVICE STUB BY A #12 COPPER WIRE.

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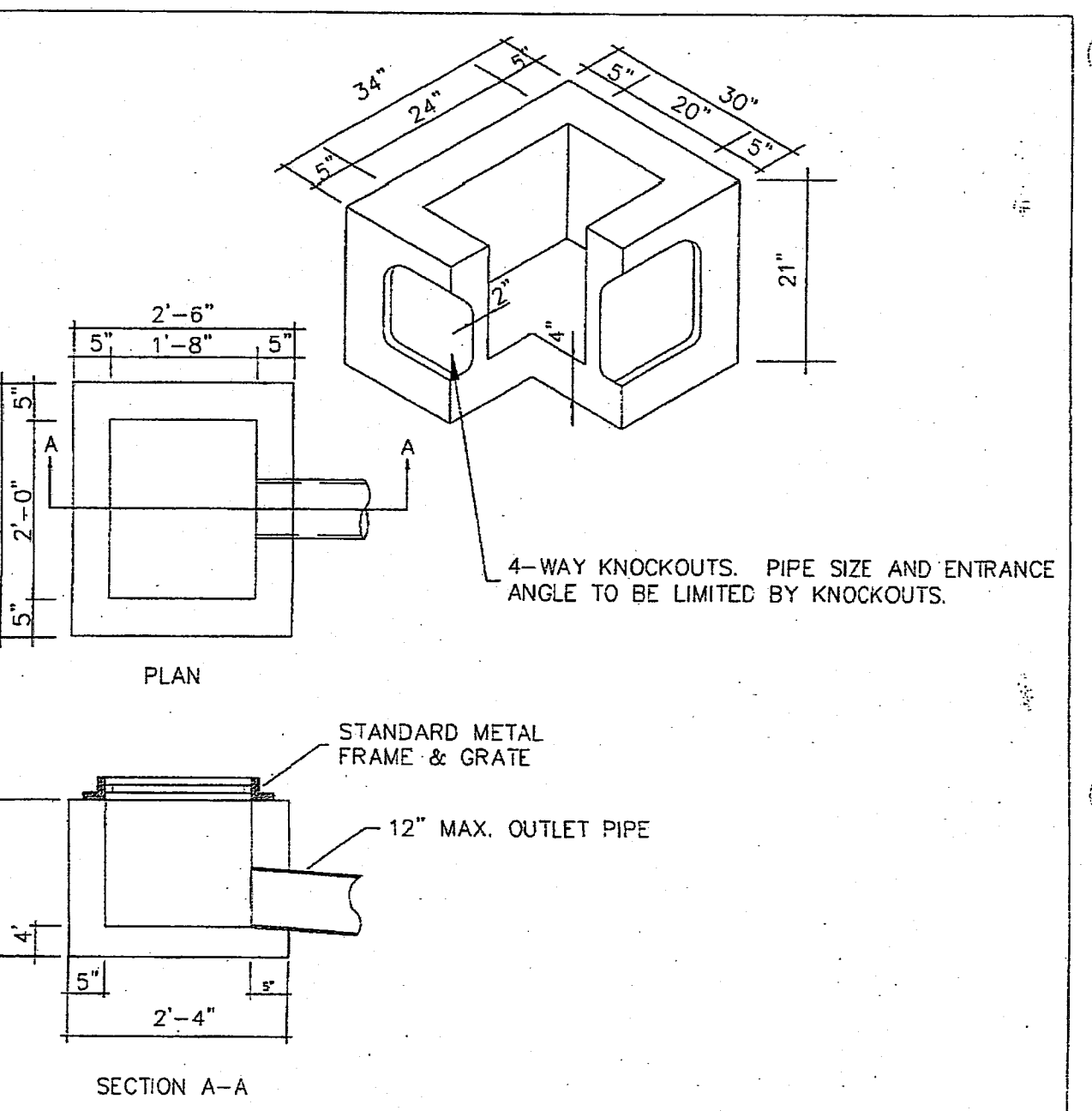
April 11, 2012

POSITIVE LOT DRAIN

Public Works Director Date

STANDARD DETAIL ST-16

NOT TO SCALE



- NOTES:
- UNIT IS DESIGNED TO PICK UP SURFACE DRAINAGE A SHORT DISTANCE FROM CATCH BASIN.
 - CAST IN PLACE OR MASONRY CONSTRUCTION UNITS MAY BE SUBSTITUTED AS PER APWA STANDARDS OR STATE STANDARDS.
 - FOR DETAILS OF REINFORCEMENT OR INSTALLATION SEE APWA STANDARDS OR STATE STANDARDS.

APPROVED

John & Caly

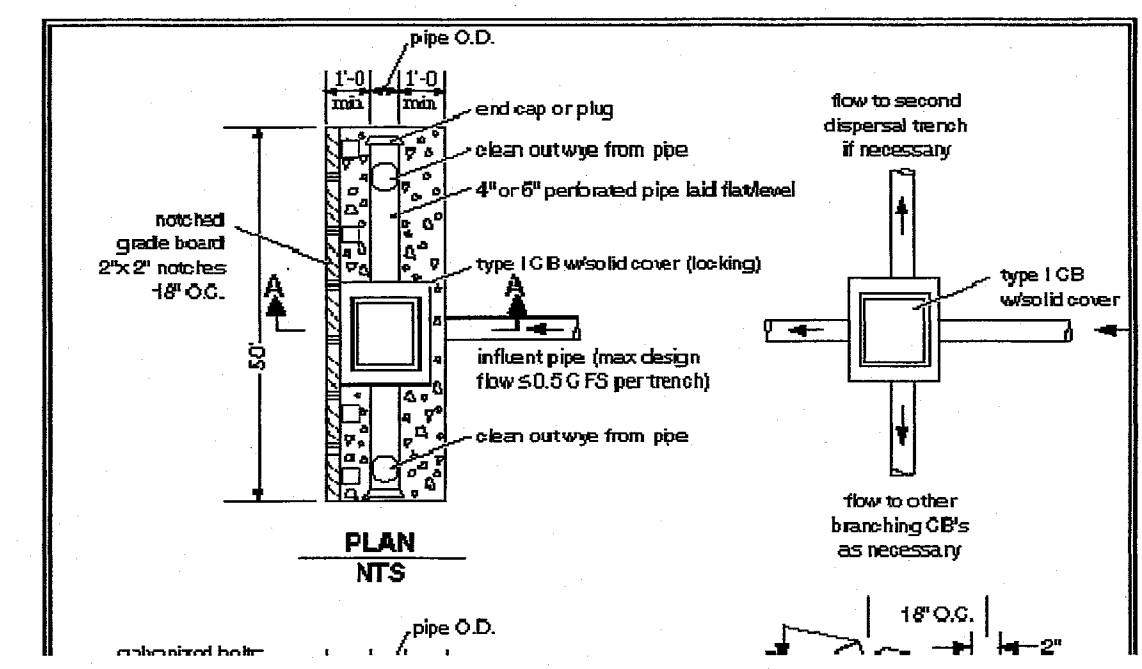
Public Works Director Date

CITY OF FERDALE

INLET DETAIL

DRAWING

ST-7



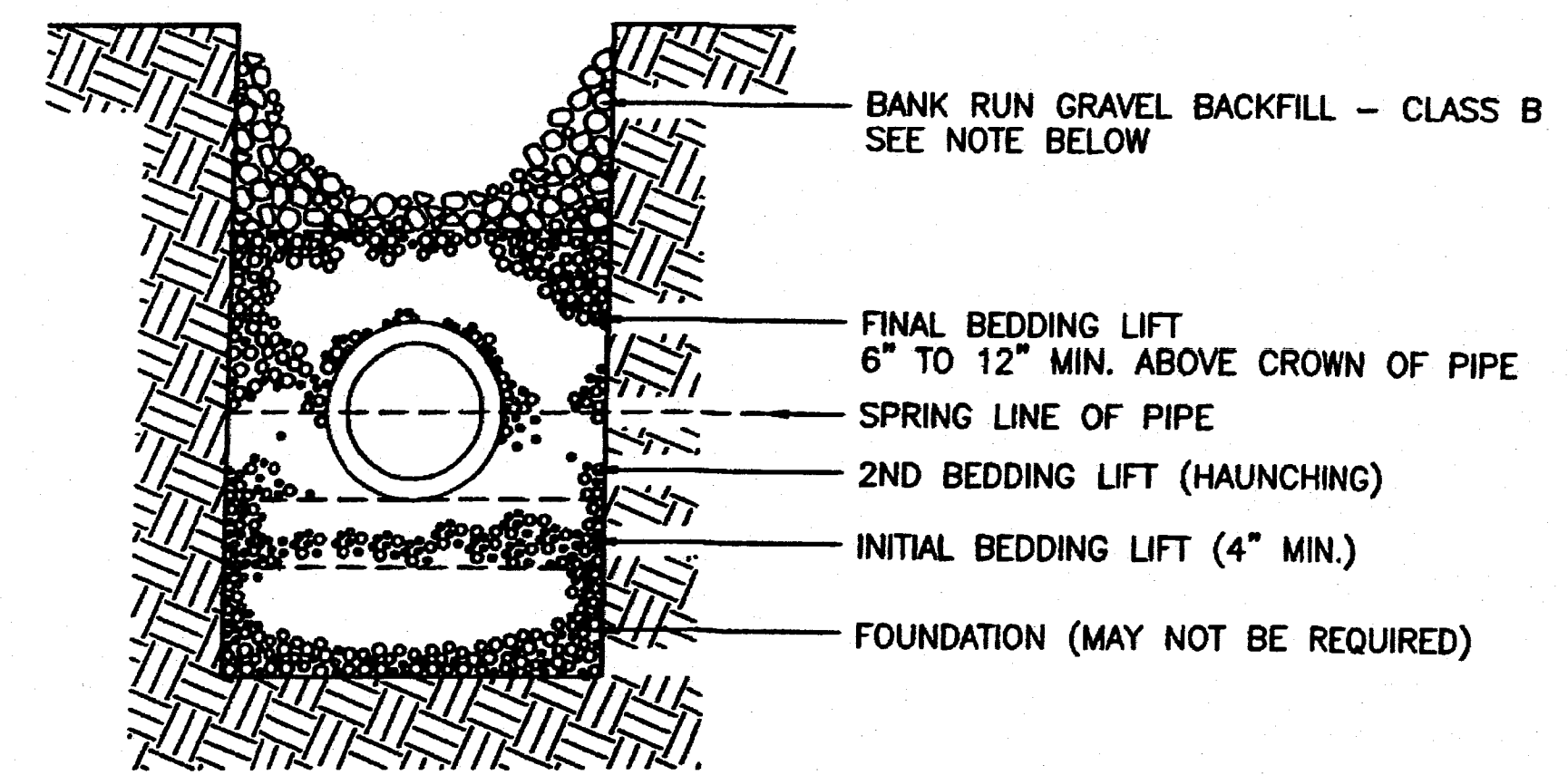
THE FOLLOWING SUPPLEMENTAL SPECIFICATIONS ARE TO BE USED IN CONJUNCTI SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION, CURRENT EDI

BEDDING FOR SEWERS, DRAINS AND CULVERTS FOR PVC PIPE-
BEDDING MATERIAL FOR PVC PIPE SHALL BE PEA GRAVEL CONFORMING THE FOLL

PEA GRAVEL - PEA GRAVEL BEDDING SHALL BE A CLEAN MIXTURE FREE FROM C CONFORMING TO THE FOLLOWING GRADATION WHEN TESTED IN ACCORDANCE WITH

U.S. STANDARD SIEVE SIZE	PERCENTAGE PASSING, BY WT.
3/4"	100
3/8"	95-100
#8	0-10
#200	0-3

BACKFILL - WHENEVER A TRENCH IS EXCAVATED IN THE EXISTING OR PROPOSED ROADWAY, SIDEWALK OR OTHER AREAS WHERE SETTLEMENT WOULD BE DETRIMENTAL, THE ENTIRE TRENCH SHALL BE BACKFILLED WITH IMPORTED GRAVEL AND COMPACTED TO 95% OF MAXIMUM DENSITY.



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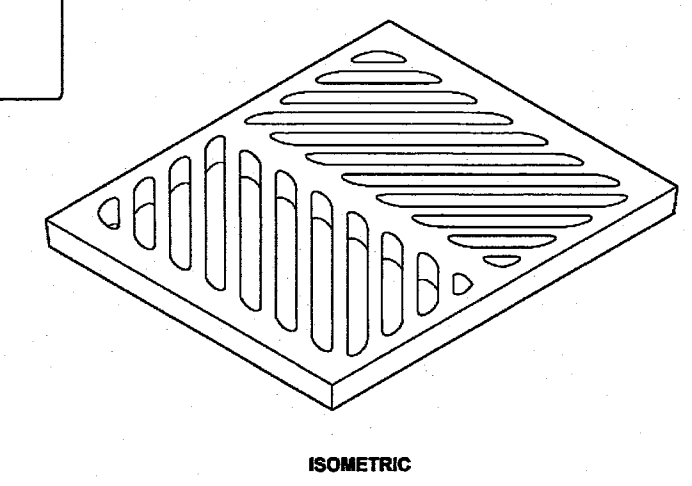
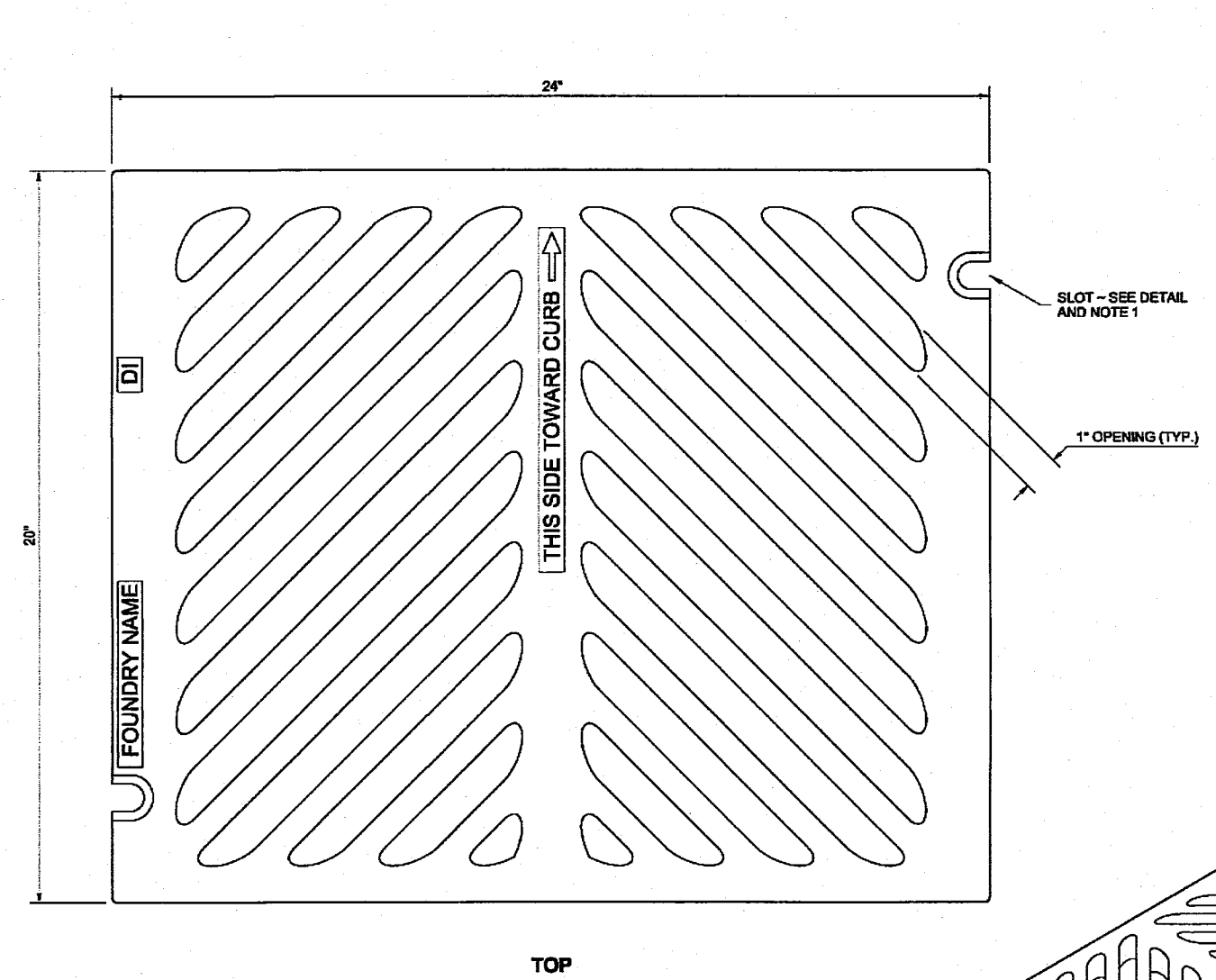
March 13, 2012

Public Works Director Date

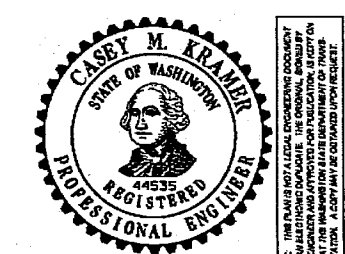
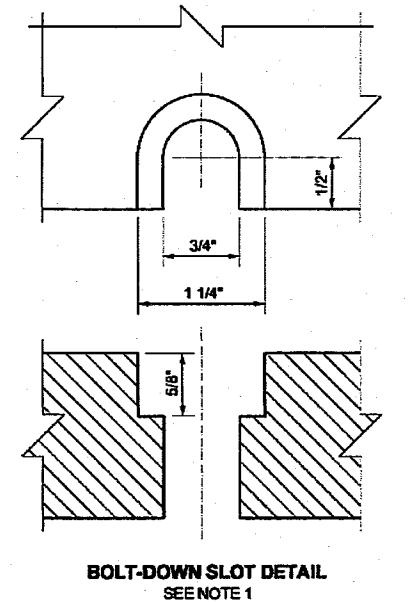
BEDDING SPECIFICATIONS

FOR PVC PIPE

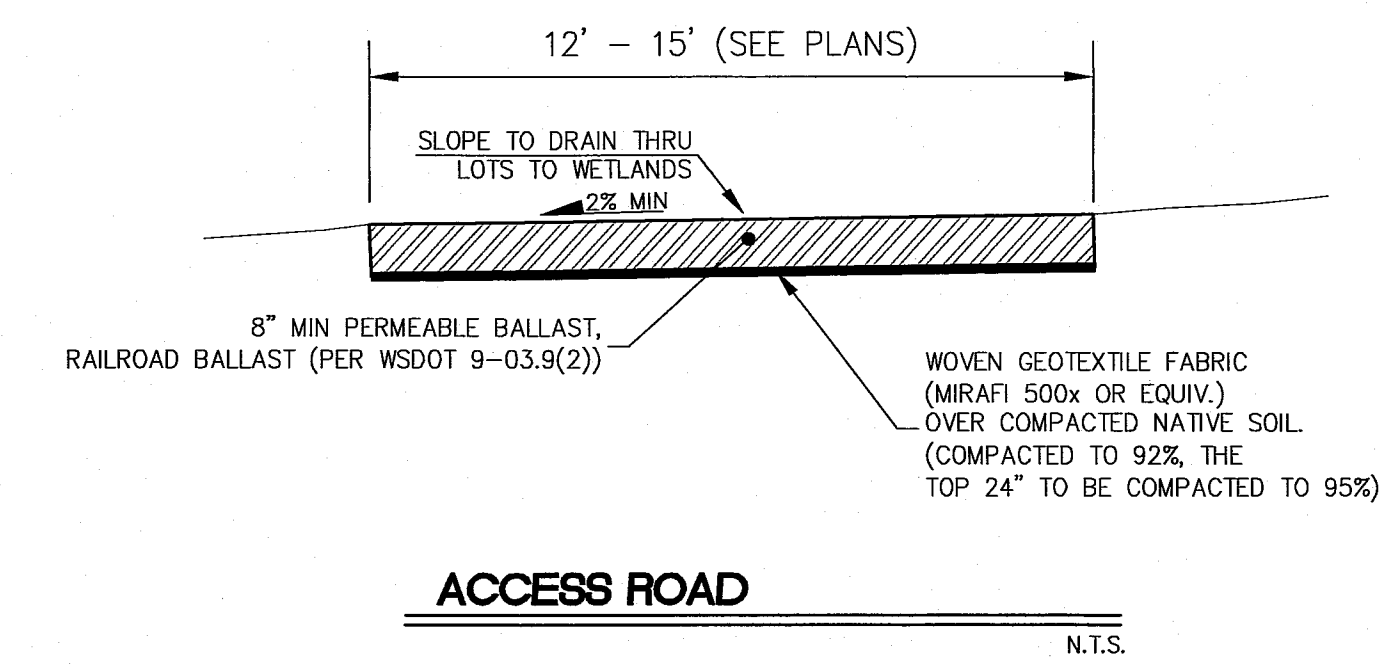
STANDARD DETAIL ST-17



- NOTES
- Bolt-down capability is required on all frames, grates, and covers, unless specified otherwise in the Contract. Provide 2 holes in the frame that are vertically aligned with the grate or cover slots. The frame shall accept the 5/8\"/>



RECTANGULAR
HERRINGBONE GRATE
STANDARD PLAN B-30.50-01
SHEET 1 OF 1 SHEET
APPROVED FOR PUBLICATION
Pasco Bakotich III 04/26/12
SEAL
Washington State Department of Transportation



AS-BUILTS

PROJECT TITLE
THE MEADOWS - PHASE III
A PLANNED UNIT DEVELOPMENT
THORNTON ROAD
FERDALE, WA
DRAWING TITLE
STORM DETAILS

DATE : 01/19/2015
DRAWING No.
22 of 29



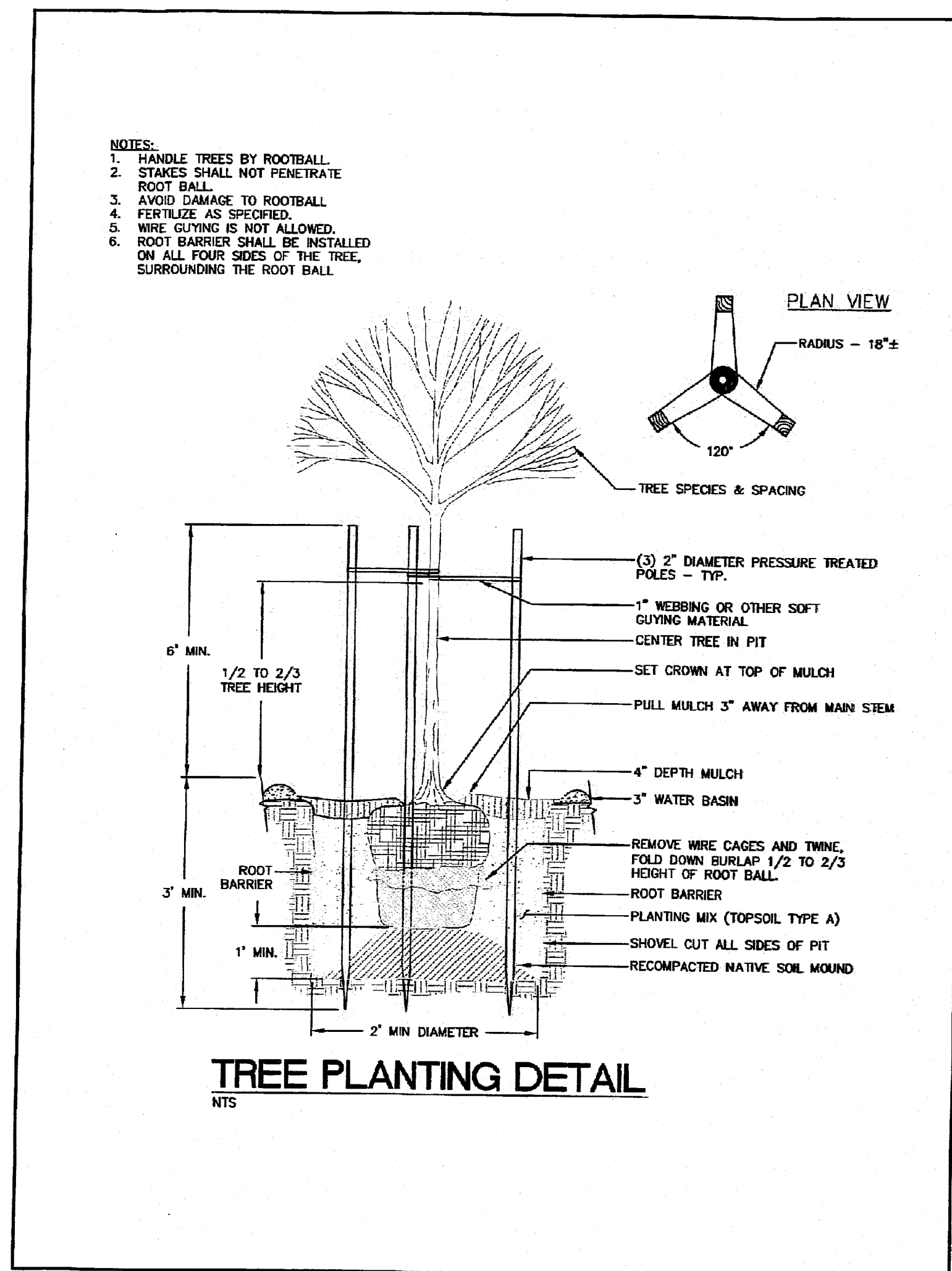
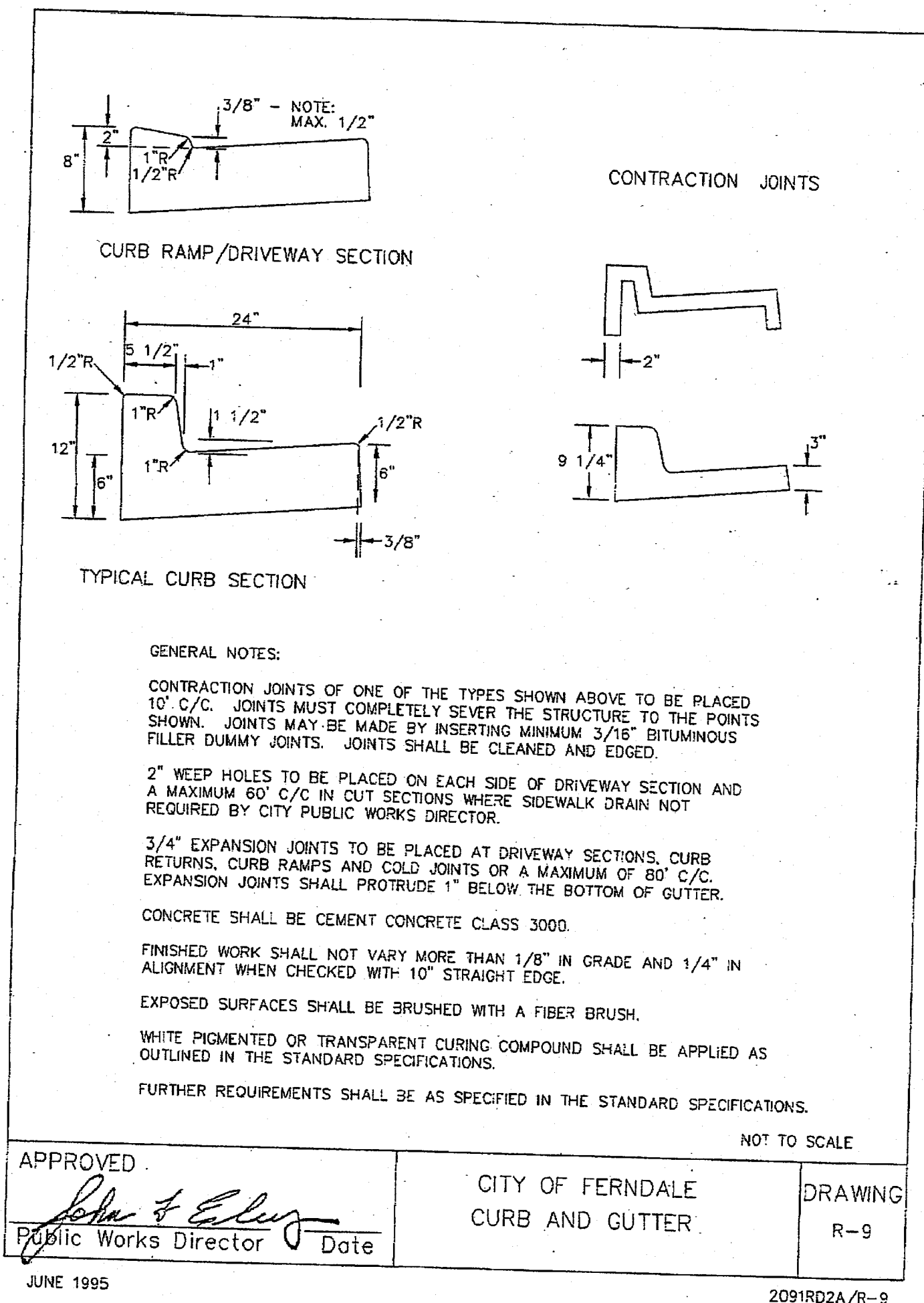
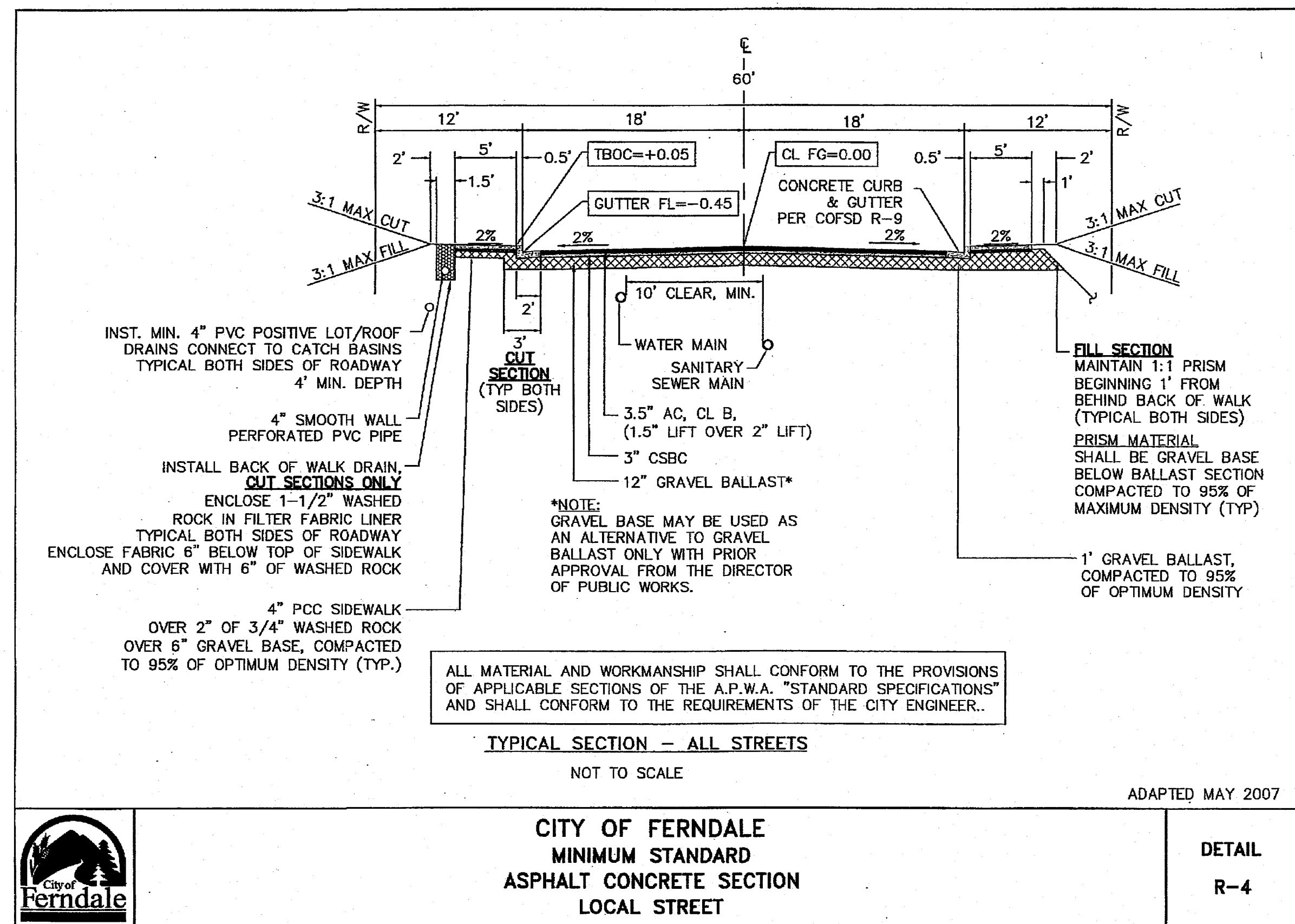
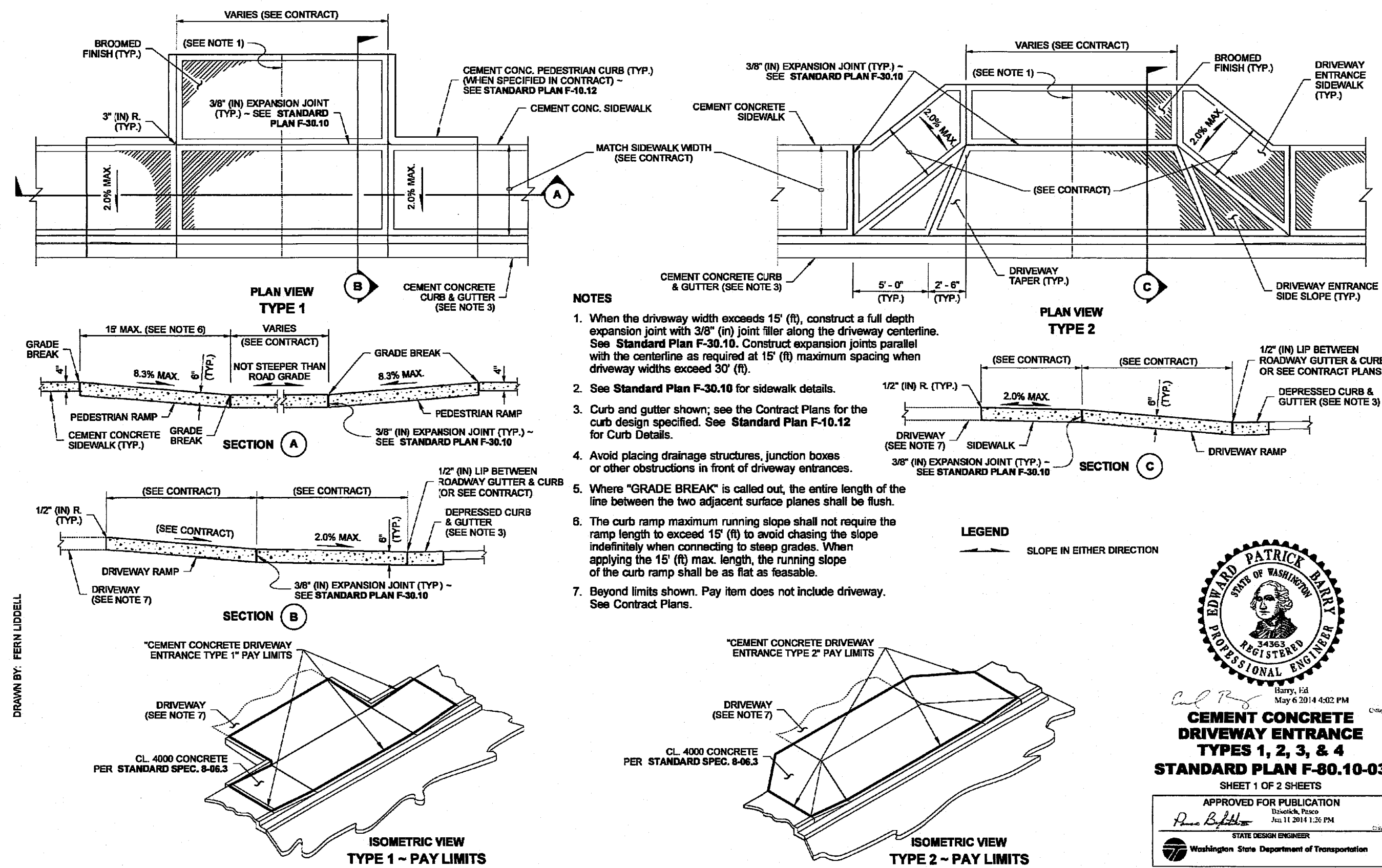
WEDEN ENGINEERING, LLC
Civil Engineering - Planning - Project Management
2636 Nubgard Rd. Ferndale, WA 98245
(360) 380-1363 (360) 384-3615 Fx
email: info@wedenengineering.com

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BY
CITY OF FERDALE

No.	REVISIONS/ SUBMISSIONS	DATE
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1	REVISIONS PER CITY COMMENTS	03/19/15
REVIEWED :	EJW	DRAWN : KLS
CAD FILE :		PROJECT NO. : 1308-03

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12/23/16 SH

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THE MEADOWS - PHASE III
A PLANNED UNIT DEVELOPMENT
THORNTON ROAD
FERNDAL, WA

STREET DETAILS

DATE: 01/19/2015
DRAWING No.

23 of 29

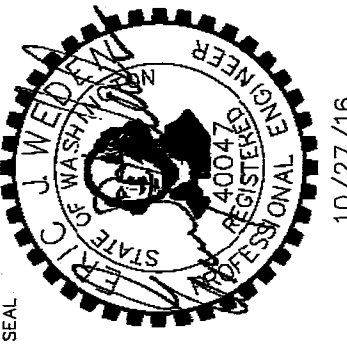
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REVIEWED: EJJ		DRAWN: KLS
CAD FILE:		PROJECT NO.: 1308-03

APPROVED
DEC 12 2016

BY: CITY OF FERNDAL

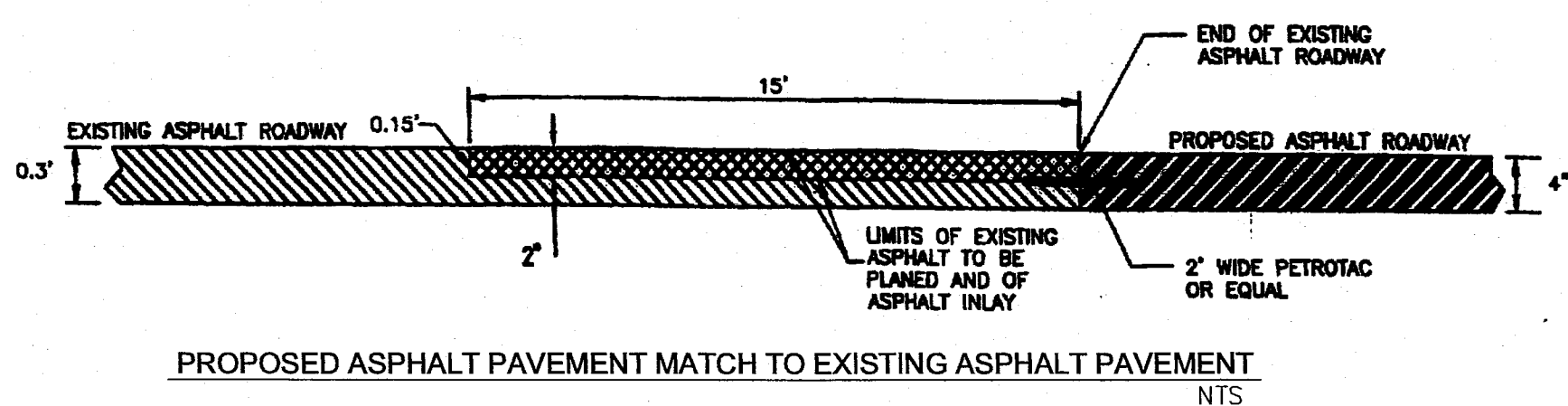
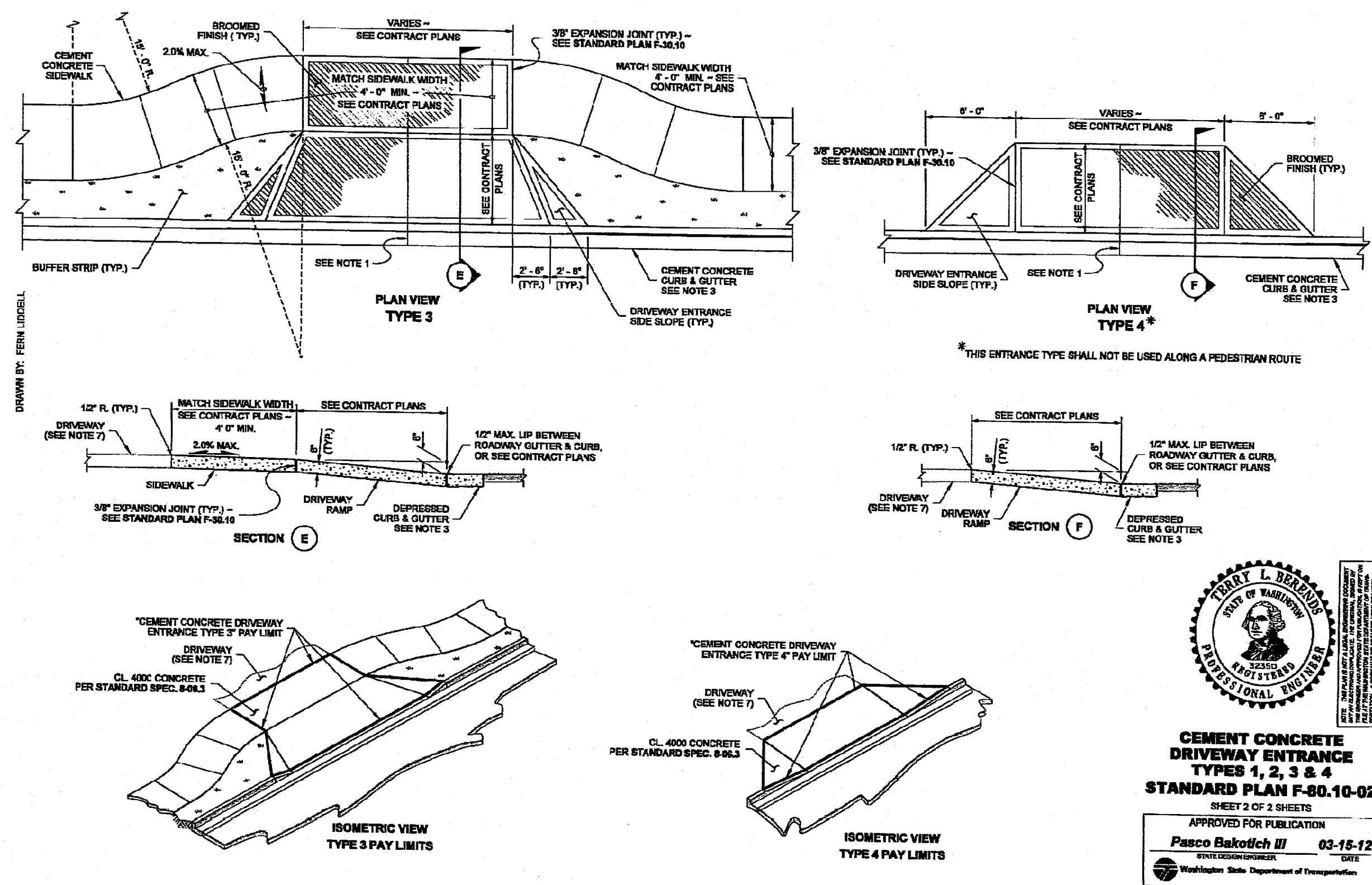
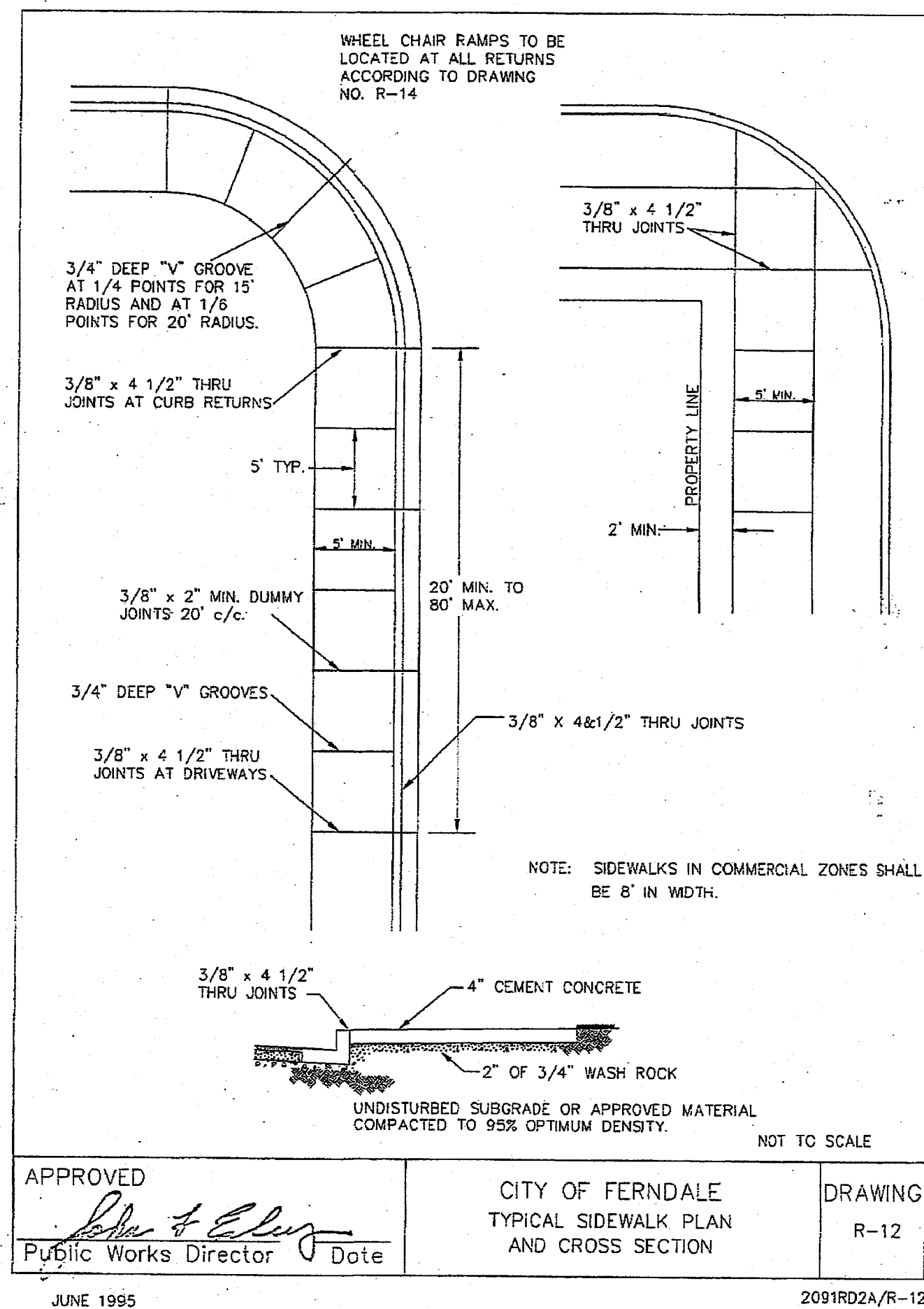
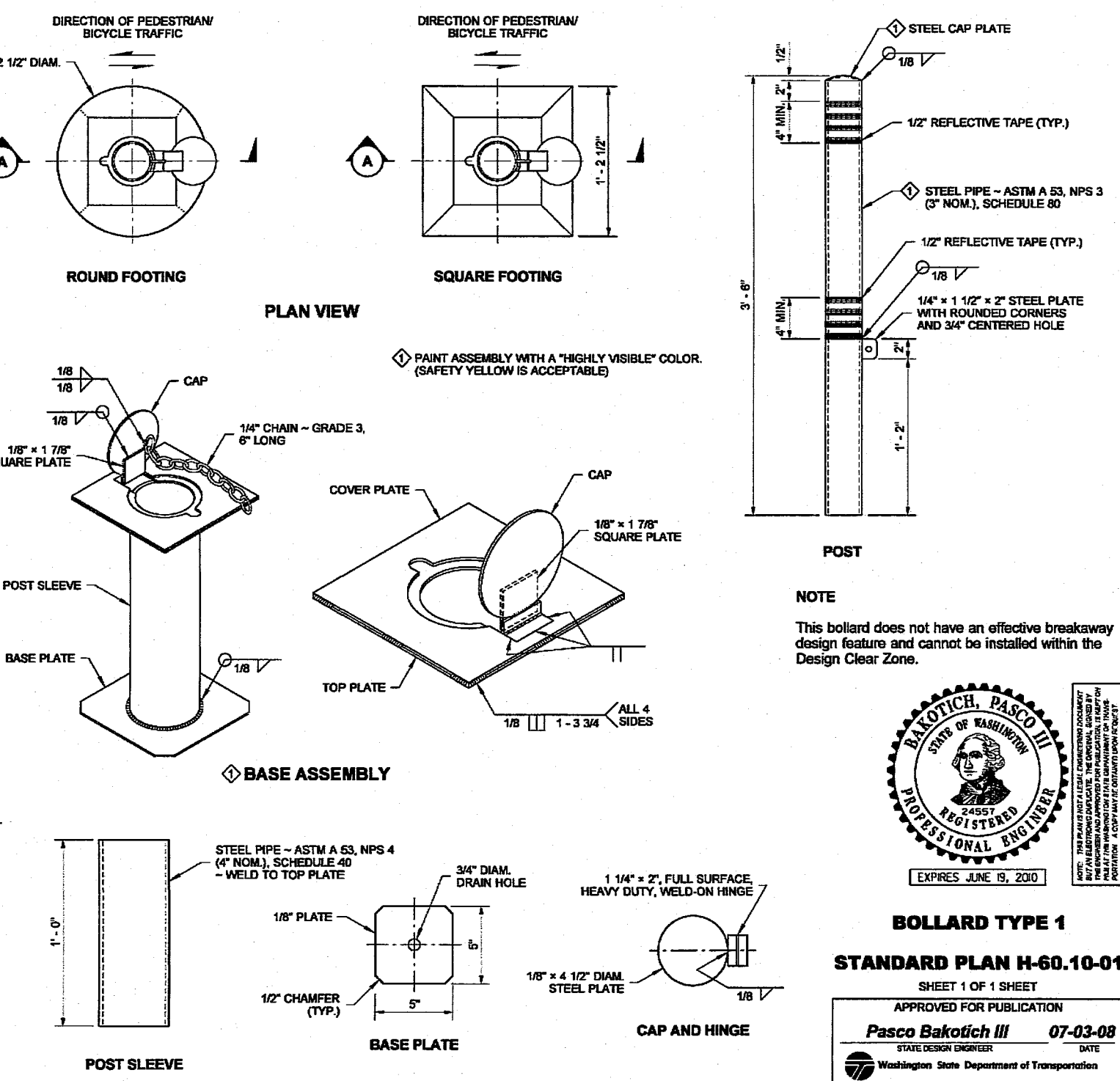
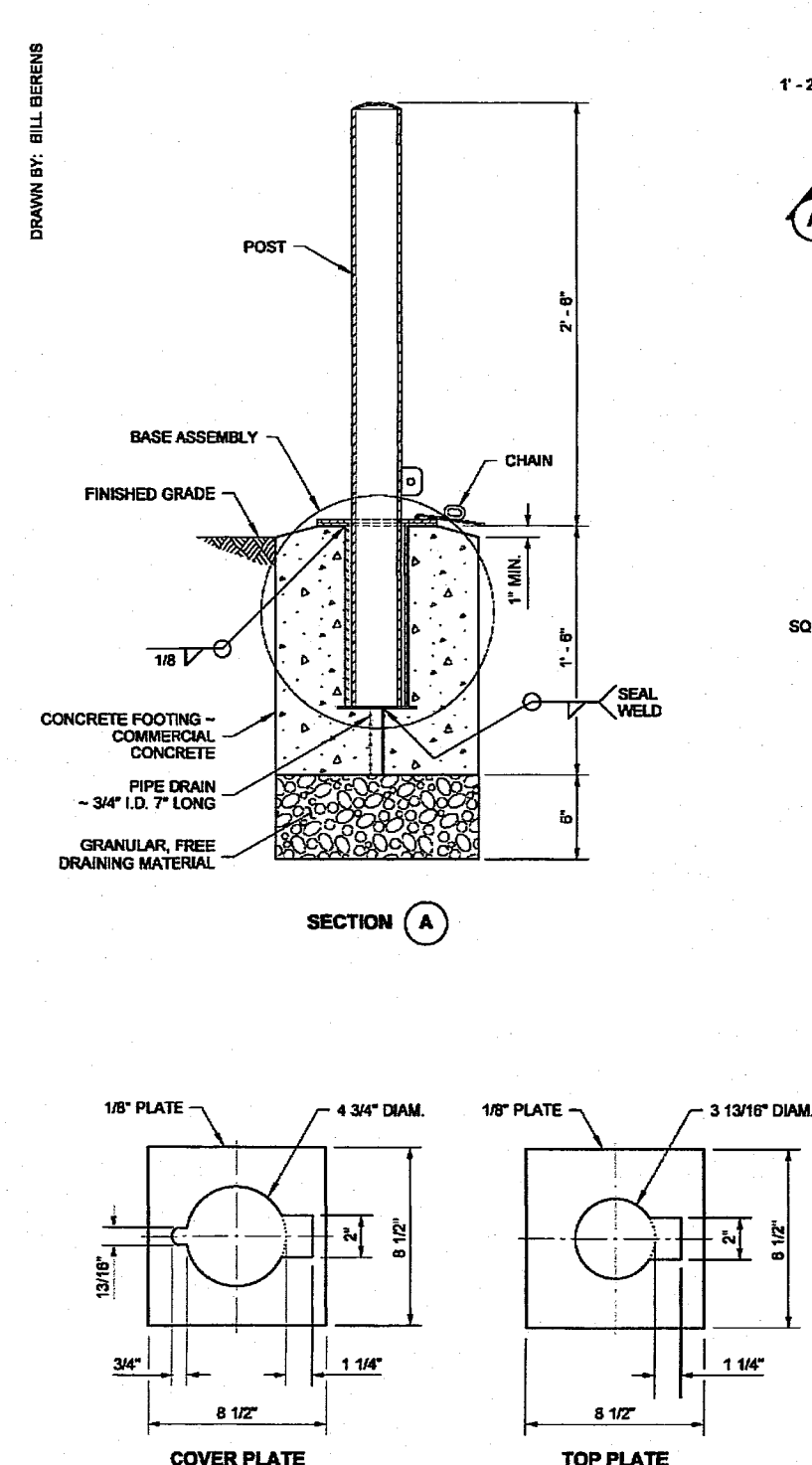
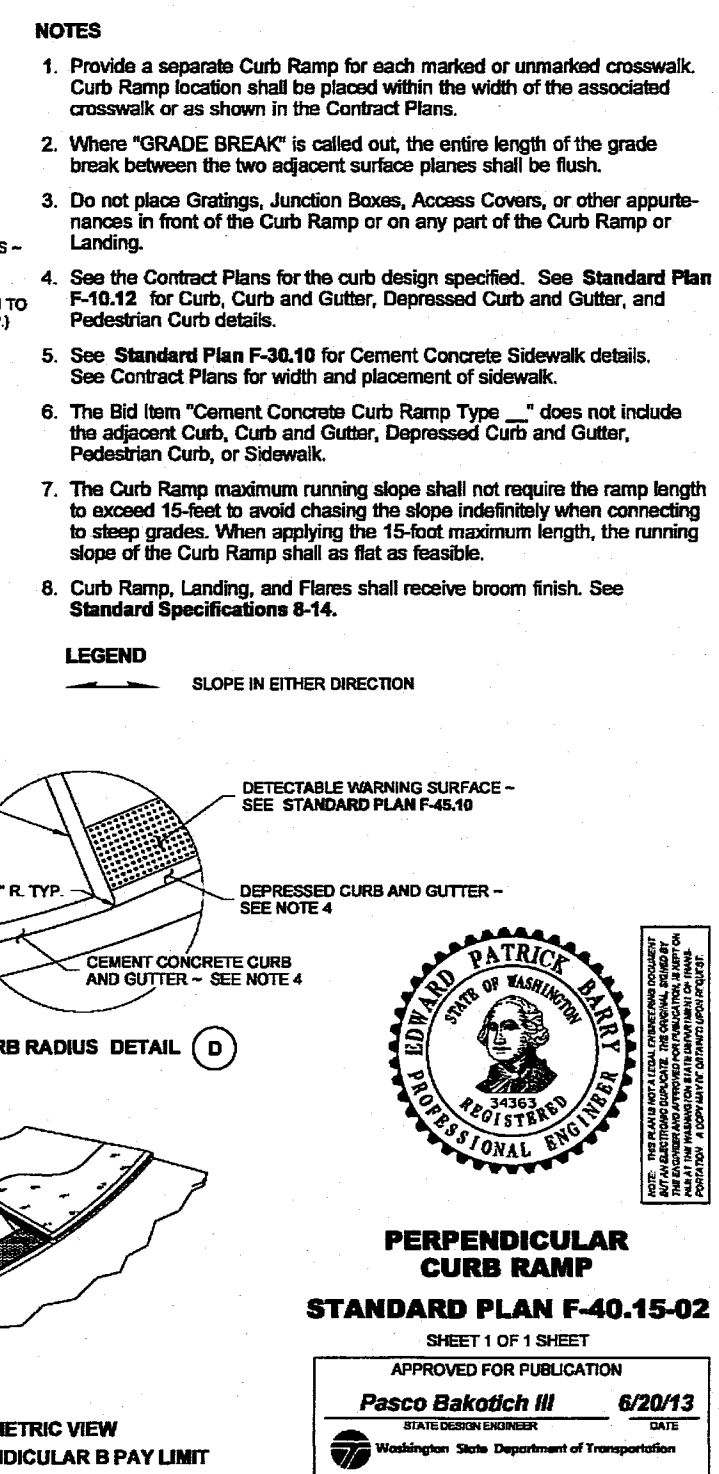
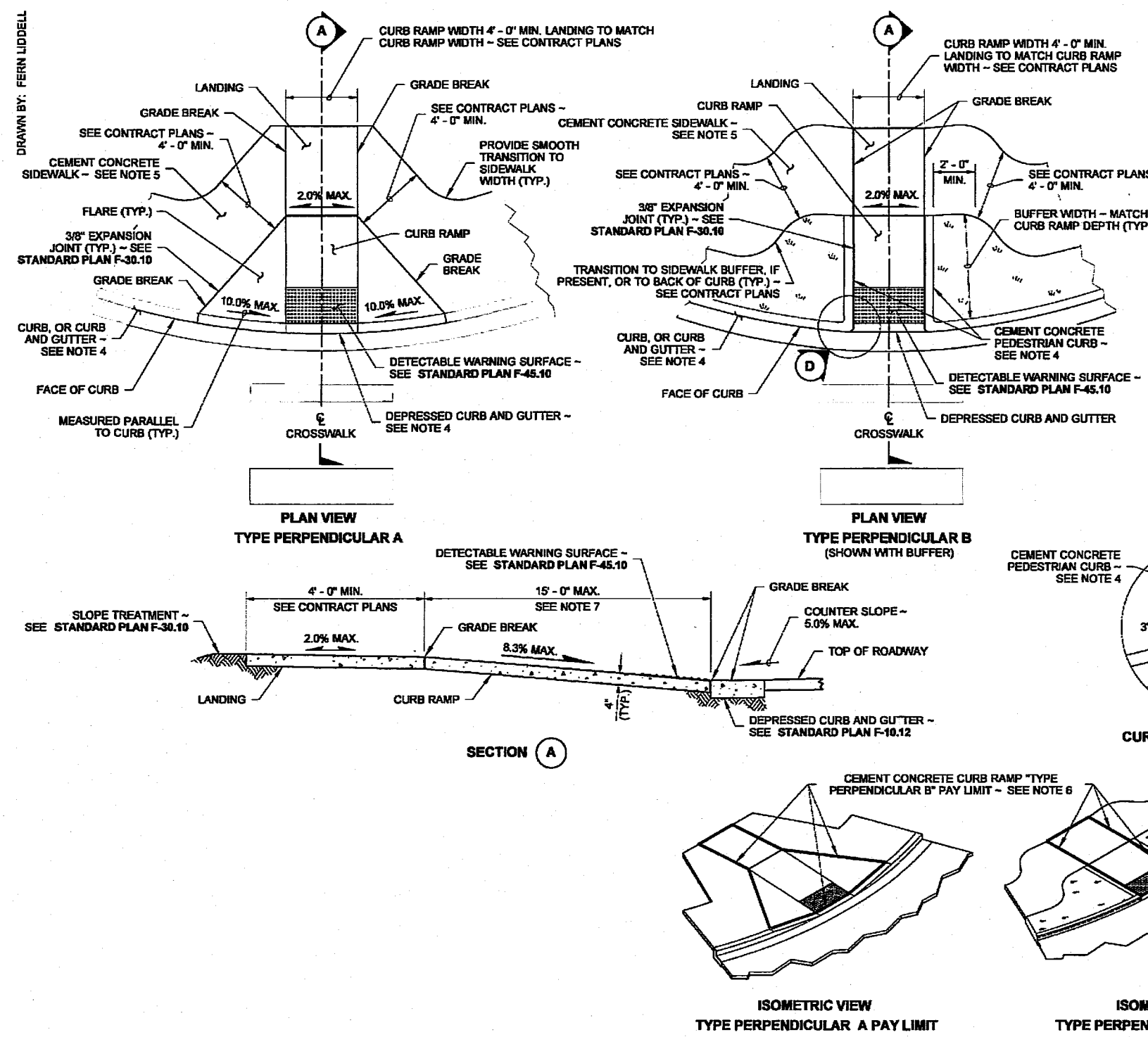
WEDEN ENGINEERING, LLC
Civil Engineering • Planning • Project Management

2636 Nugaard Rd., Ferndale, WA 98248
(360) 384-1363
email: info@wedenengineering.com



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AS-BUILTS

PROJECT TITLE

THE MEADOWS - PHASE III

A PLANNED UNIT DEVELOPMENT

THORNTON ROAD

FERDALE, WA

DRAWING TITLE

STREET DETAILS

DATE : 01/19/2015

DRAWING No.

24 of 29



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(360) 380-1363 (360) 384-3615 Fx

email: info@wedenengineering.com



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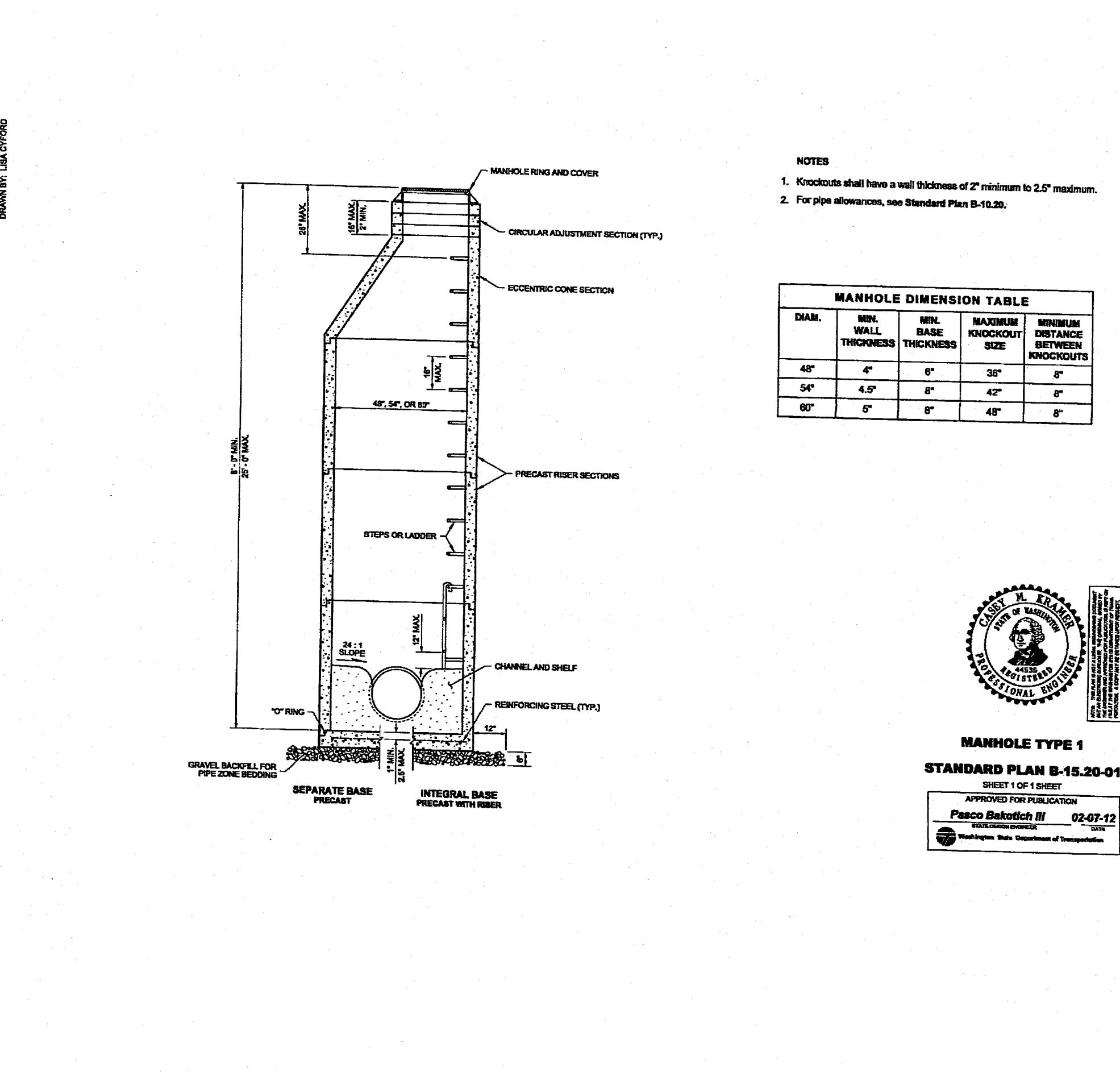
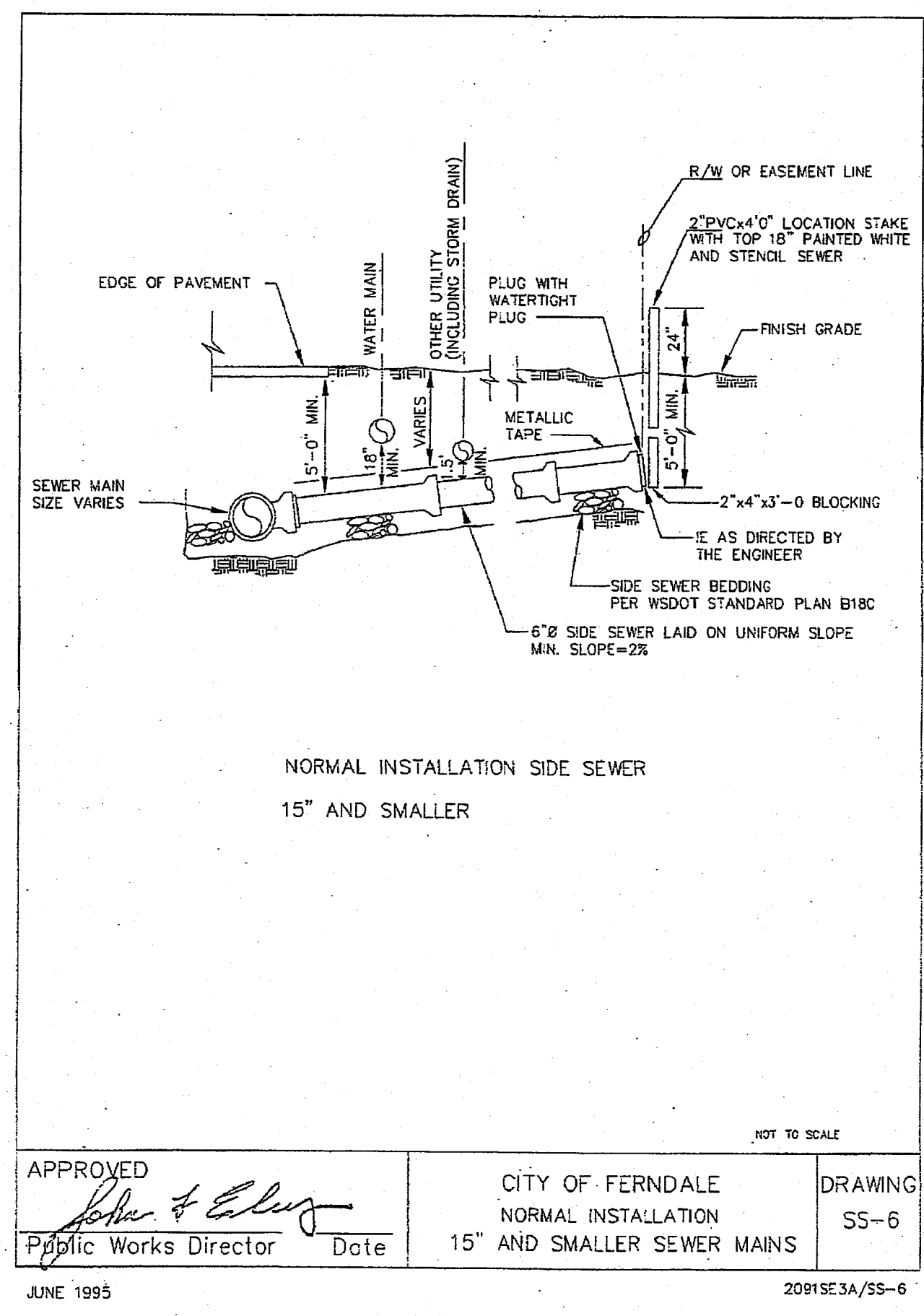
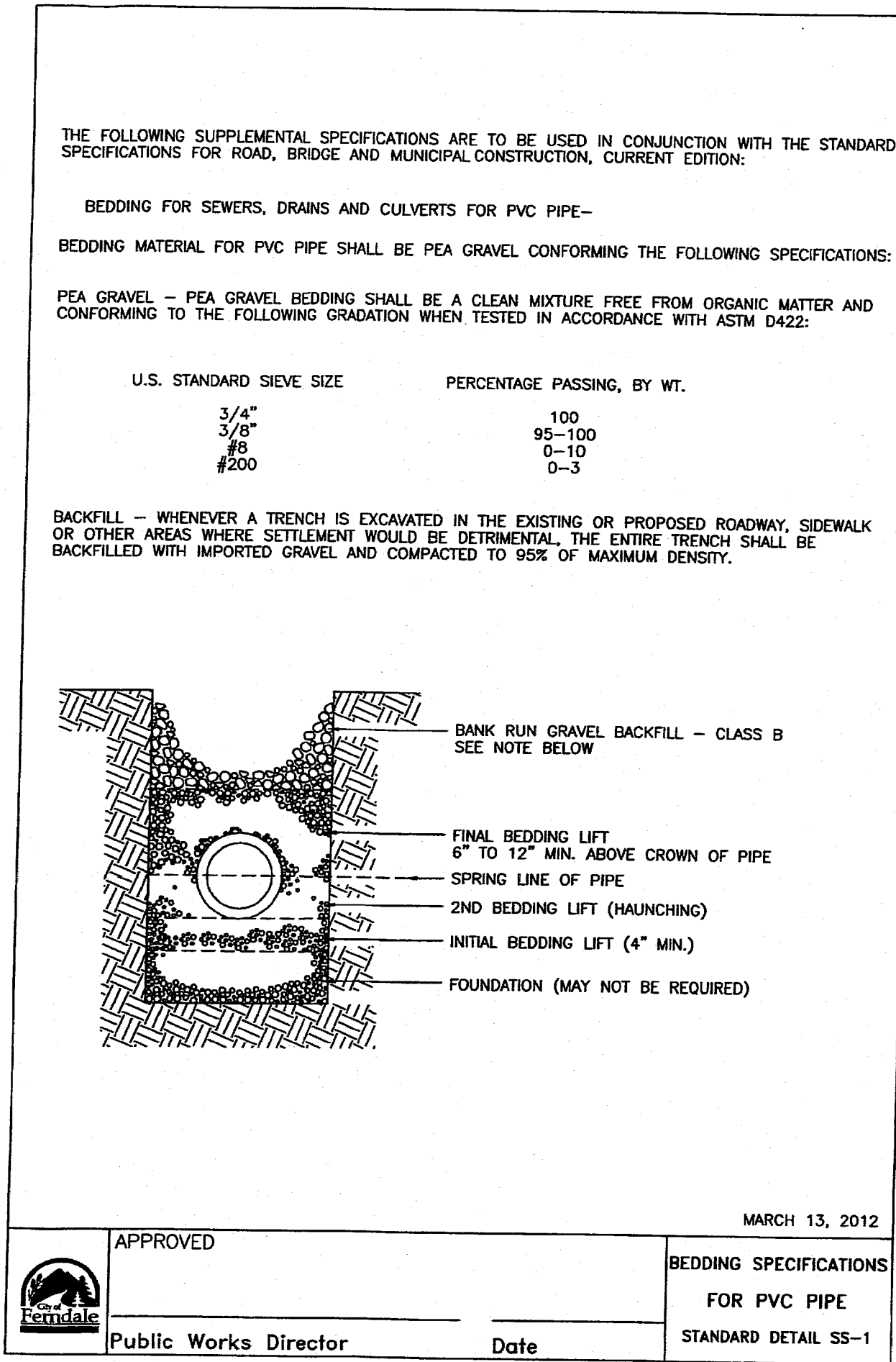
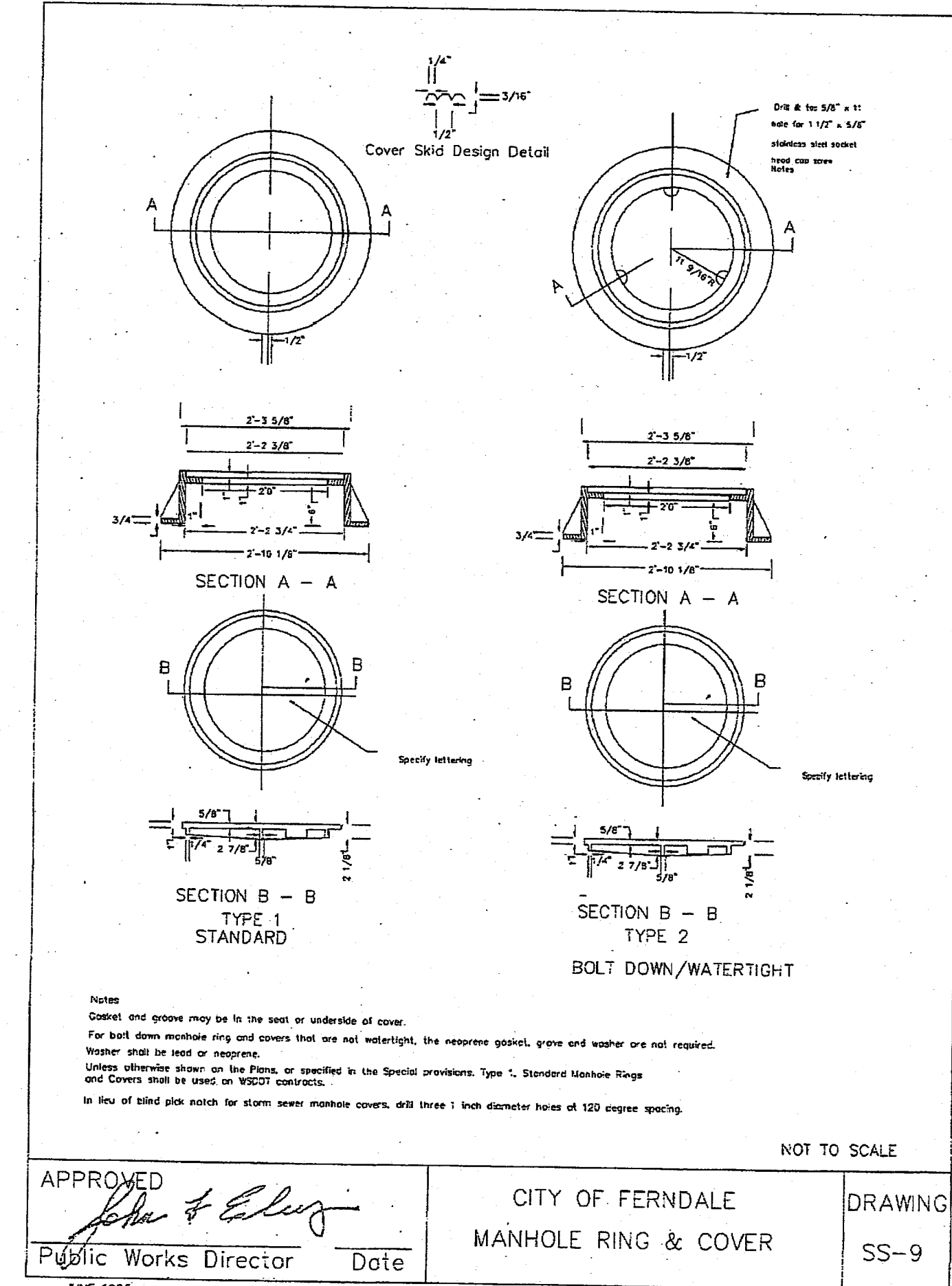
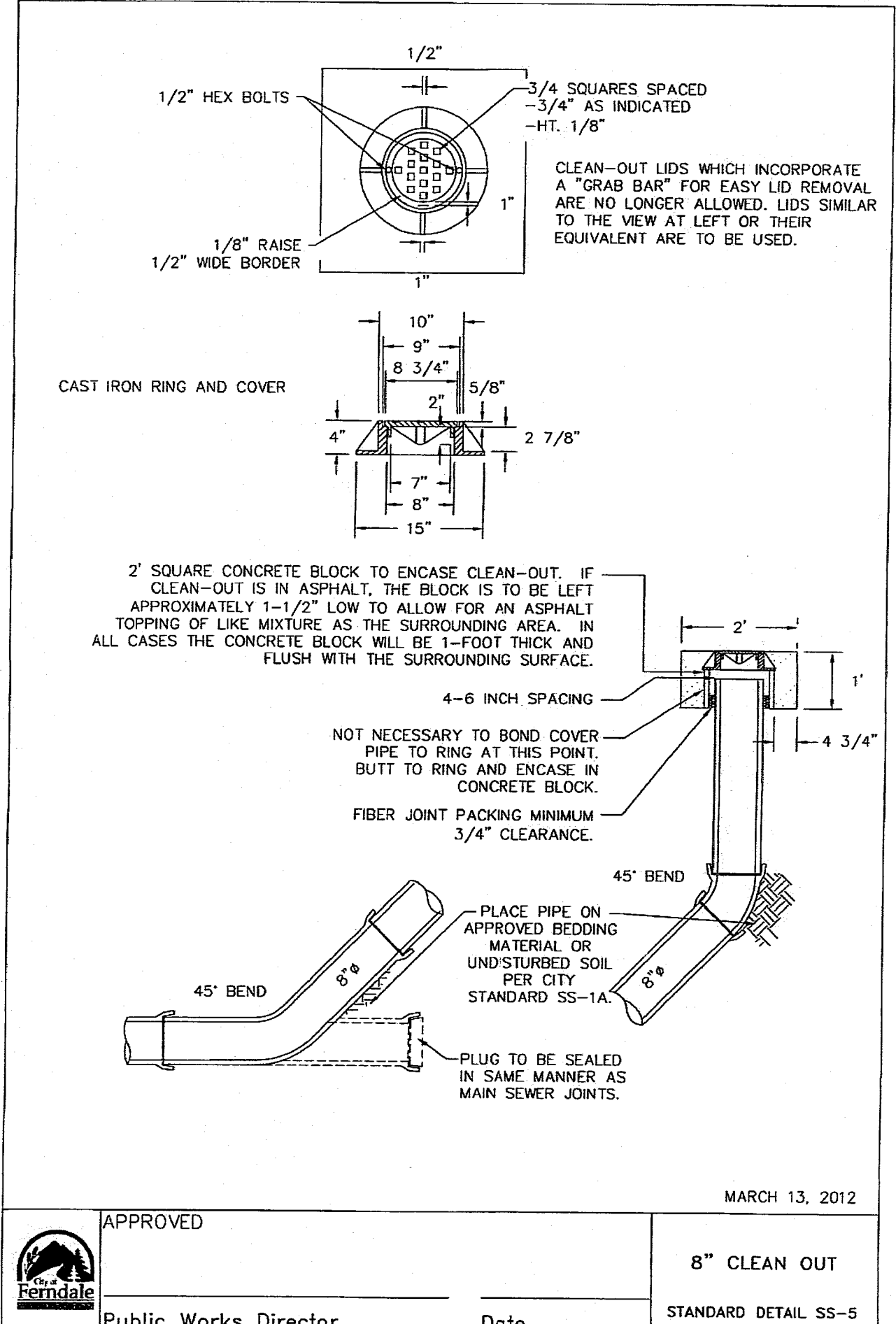
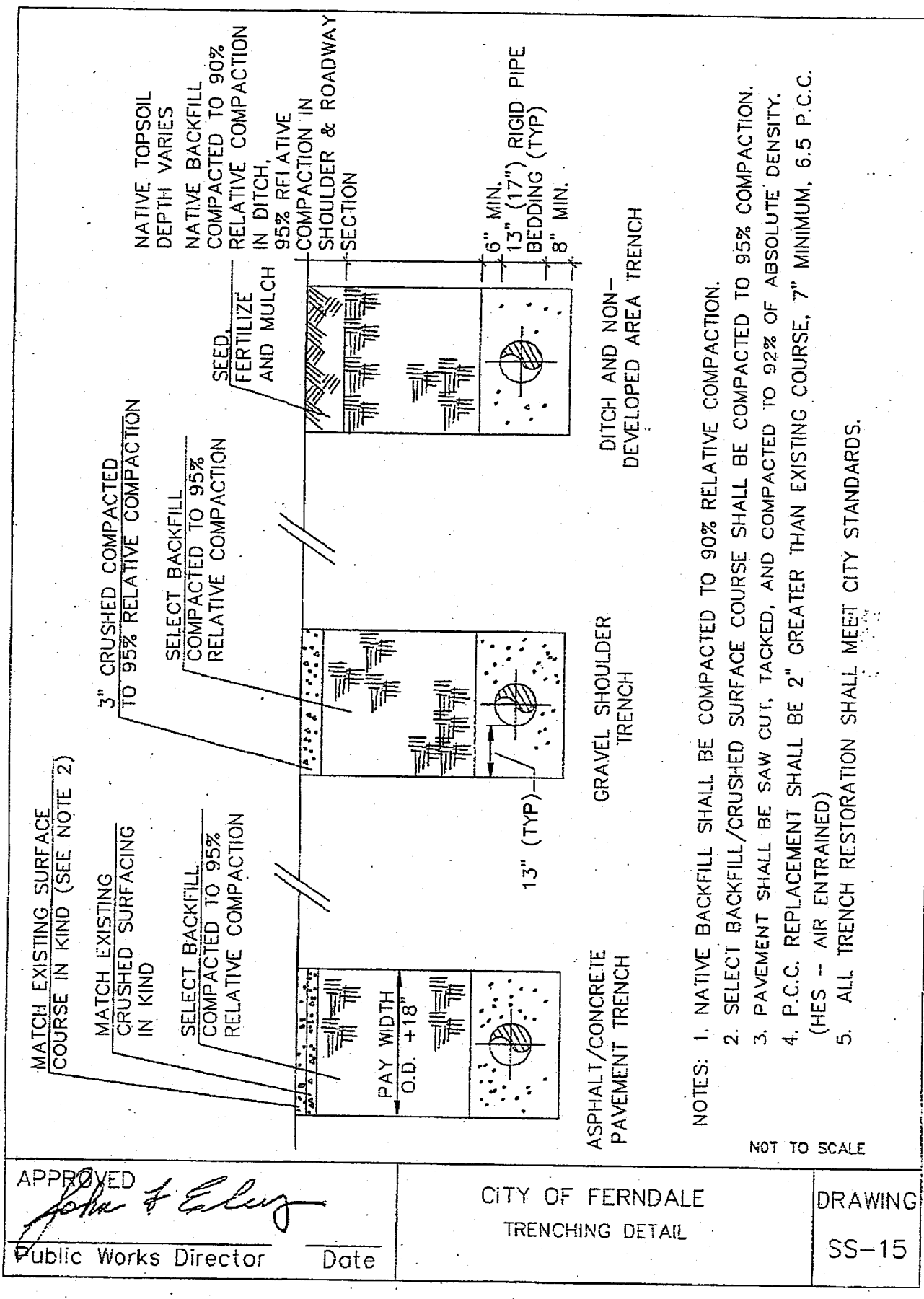
DEC 12 2016

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CITY OF FERDALE

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REVIEWED : EJV		DRAWN : KLS
CAD FILE :		PROJECT NO. : 1308-03

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AS-BUILTS

THE MEADOWS - PHASE III
A PLANNED UNIT DEVELOPMENT
THORNTON ROAD
FERDALE, WA

DATE: 01/19/2015
DRAWING No.

25 of 29

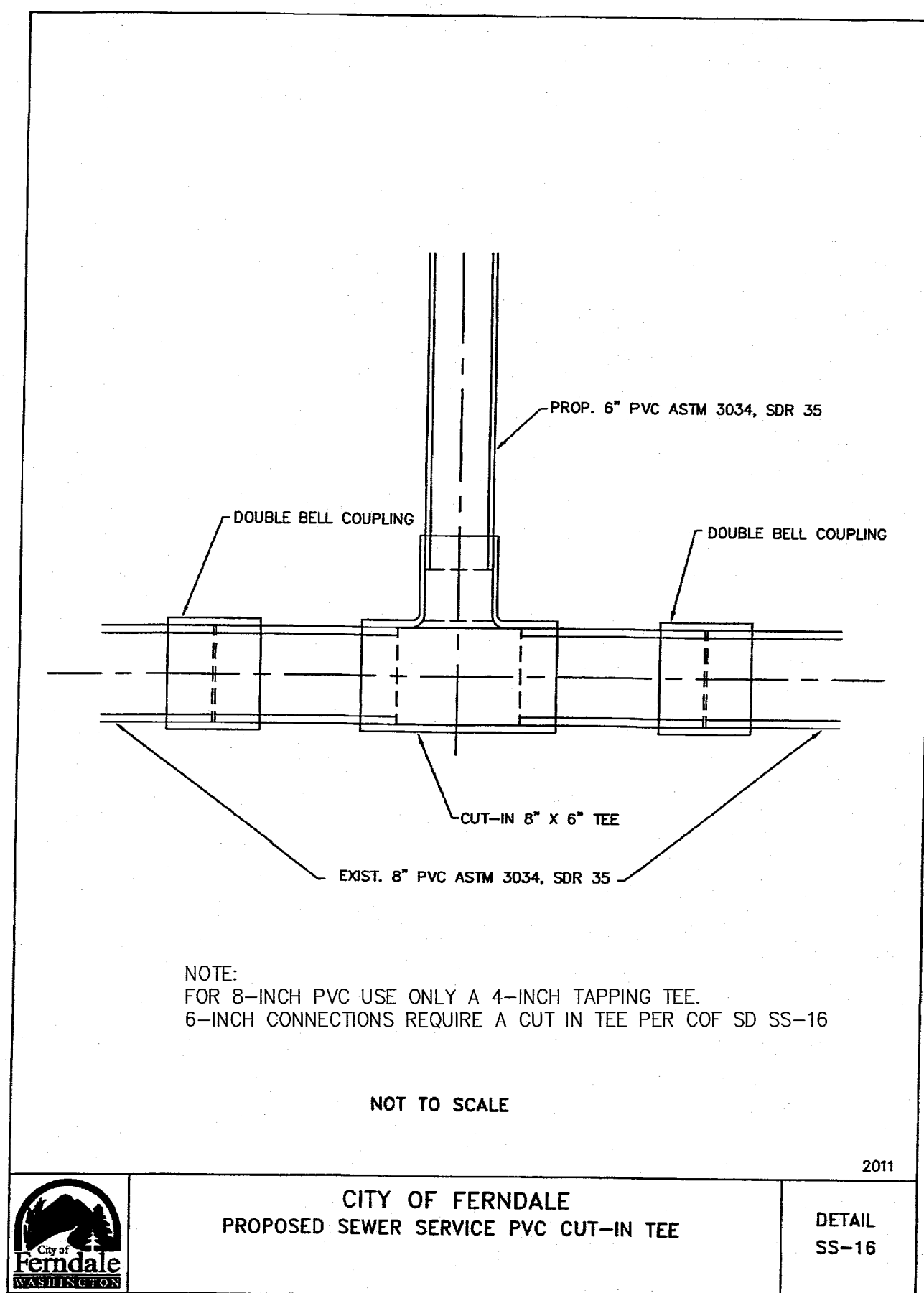
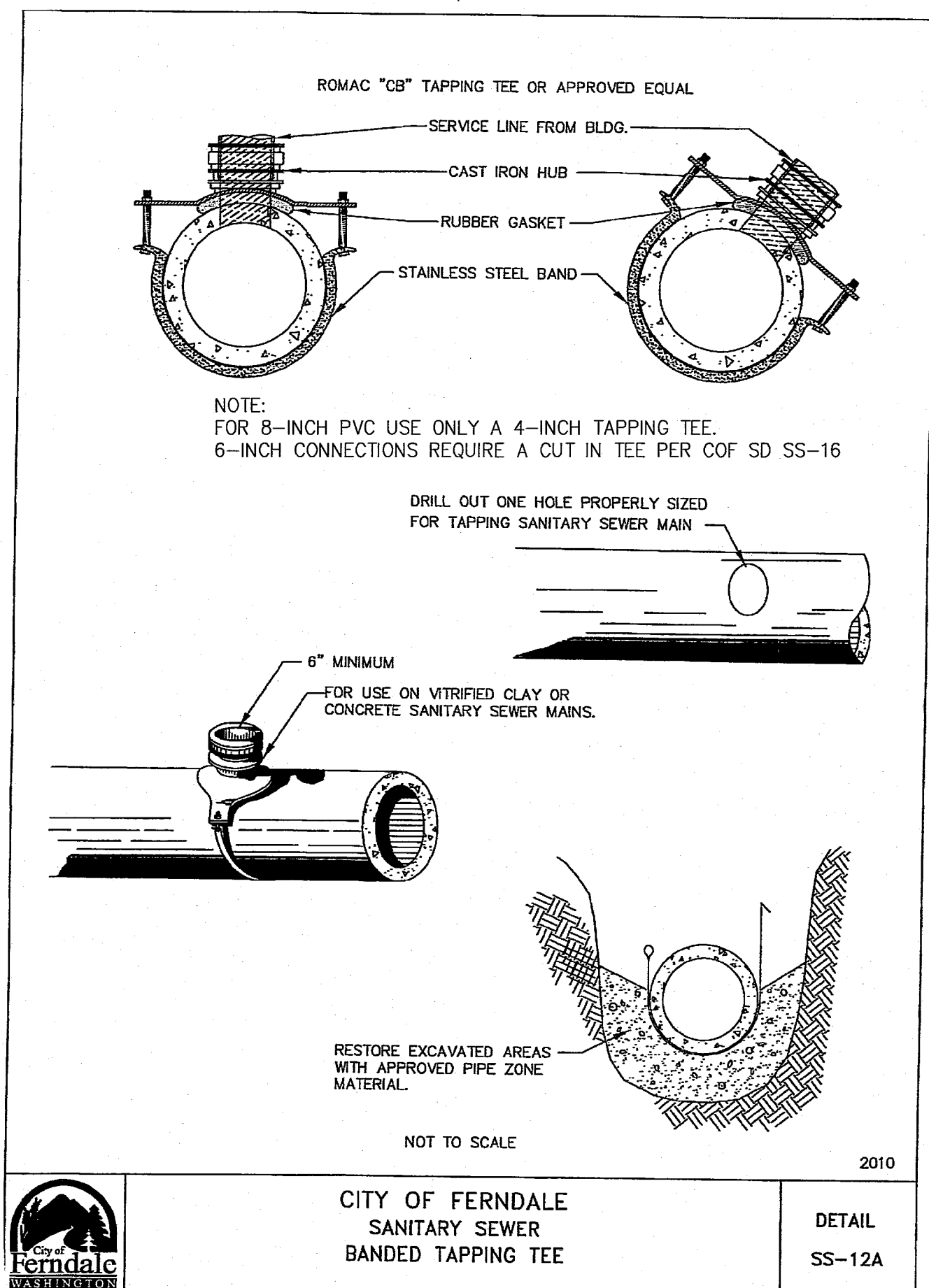
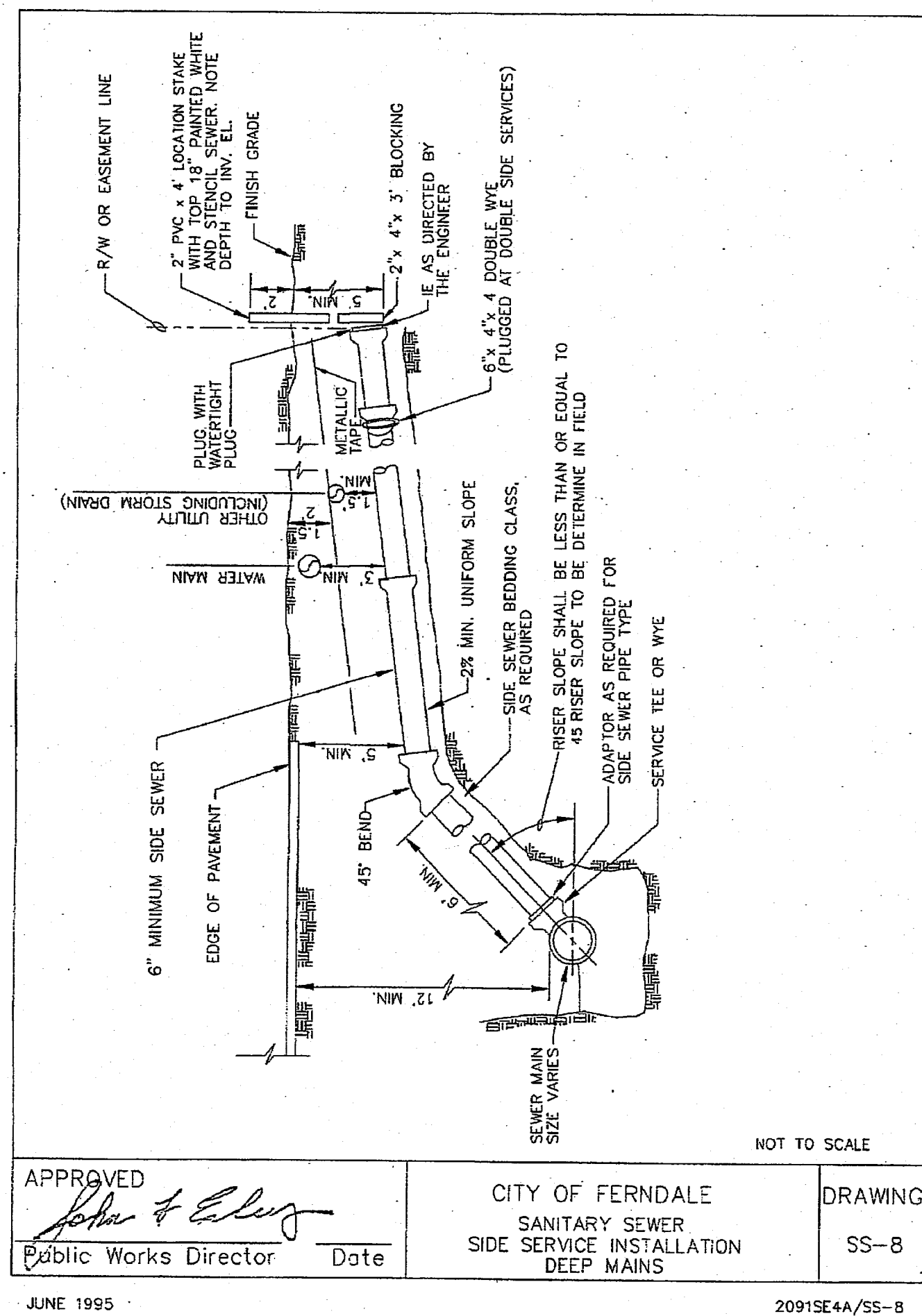
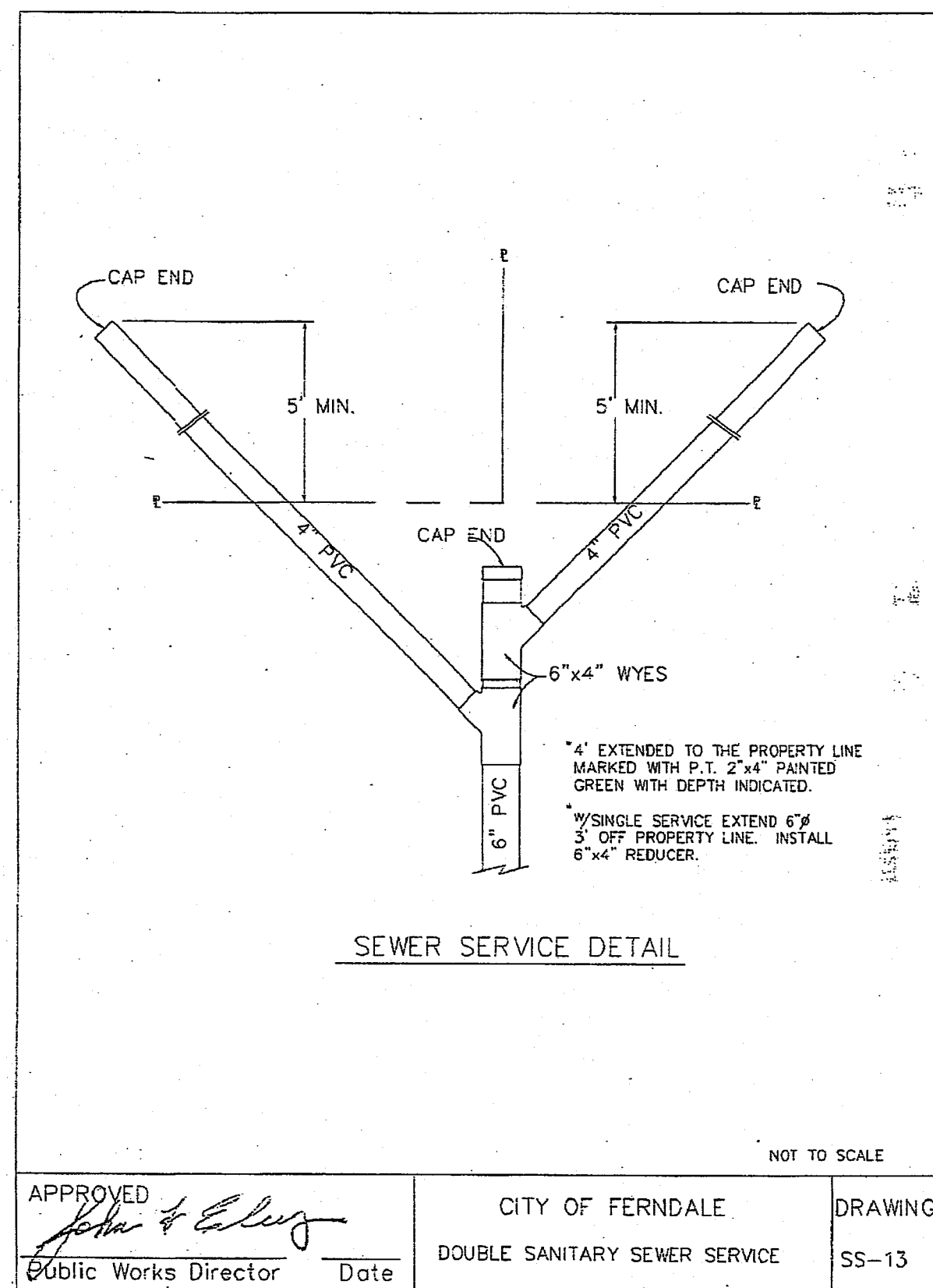
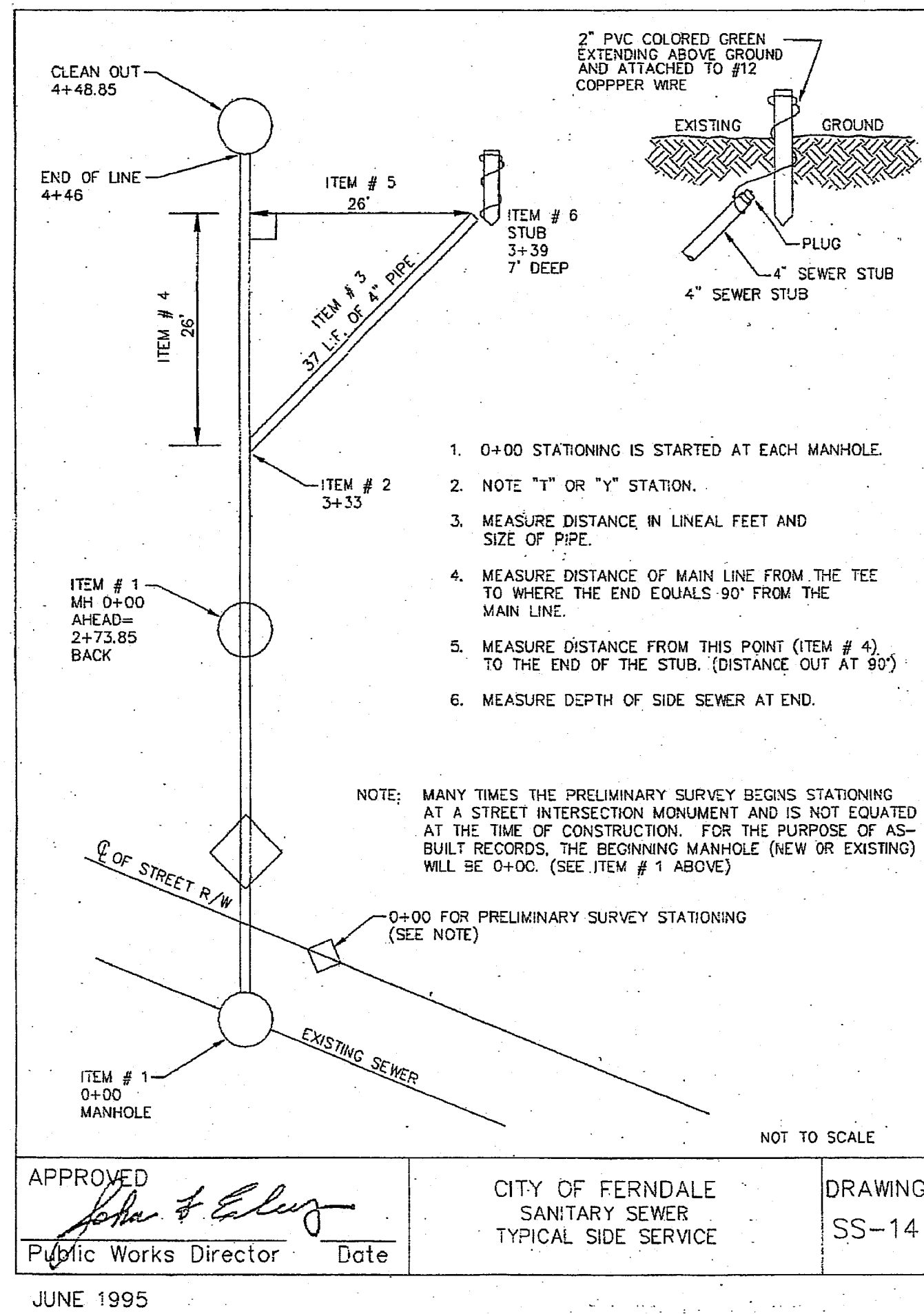
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REVIEWED: E.W. DRAWN: KLS
CAD FILE: PROJECT NO. 1308-03

MANHOLE TYPE 1
STANDARD PLAN B-15.20-01
APPROVED FOR PUBLICATION
Pascos Batdorf II
02-07-12

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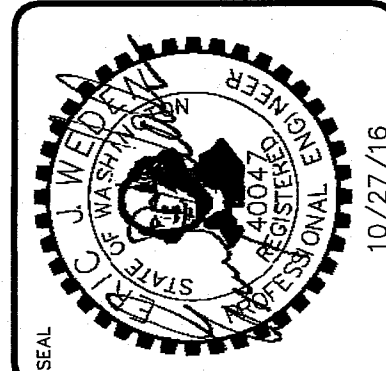
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DRAWING TITLE	SANITARY SEWER DETAILS
DATE	01/19/2015
DRAWING No.	26 of 29

No.	REVISIONS / SUBMISSIONS	DATE
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APPROVED	DEC 13 2016
BY	CITY OF FERDALE

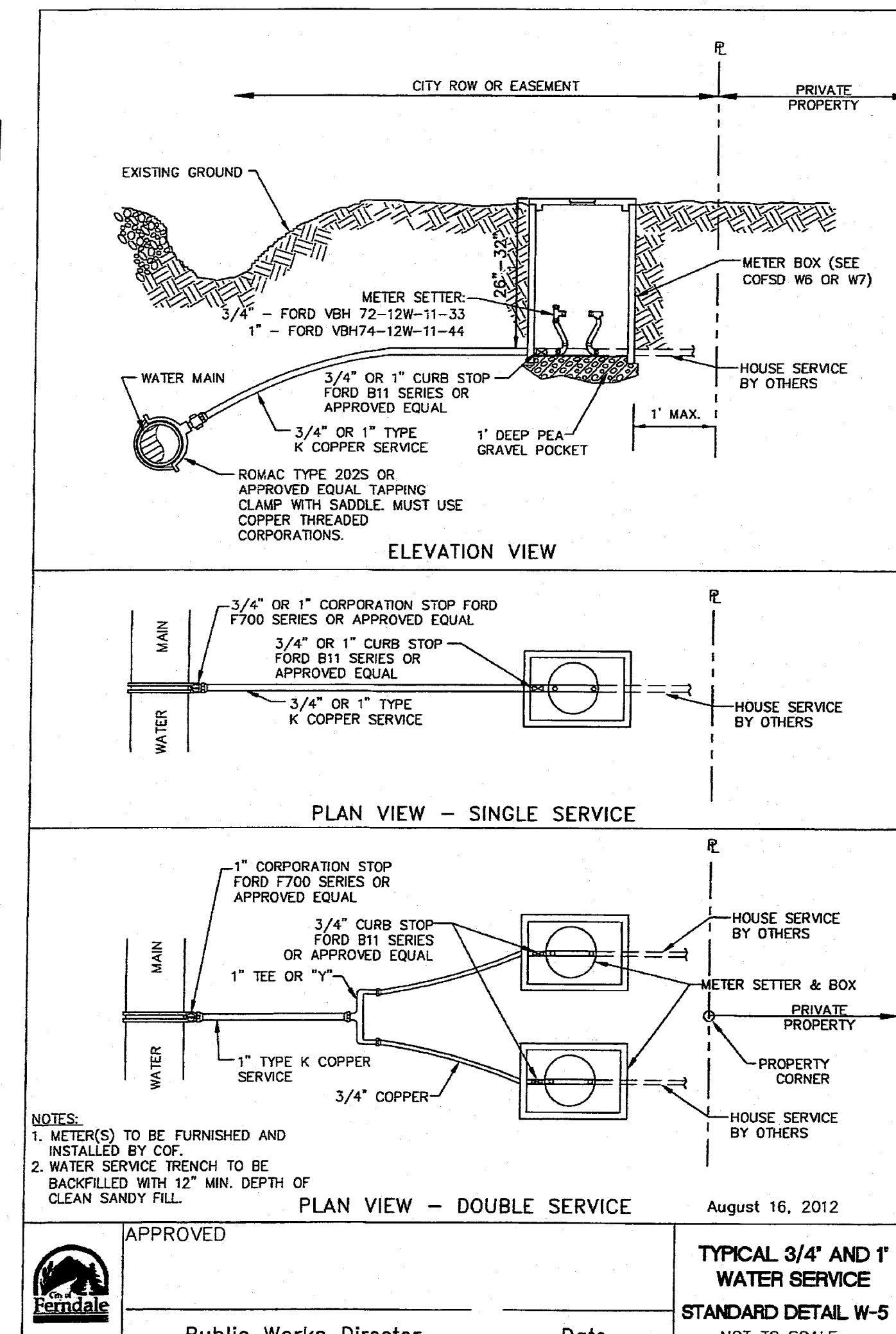
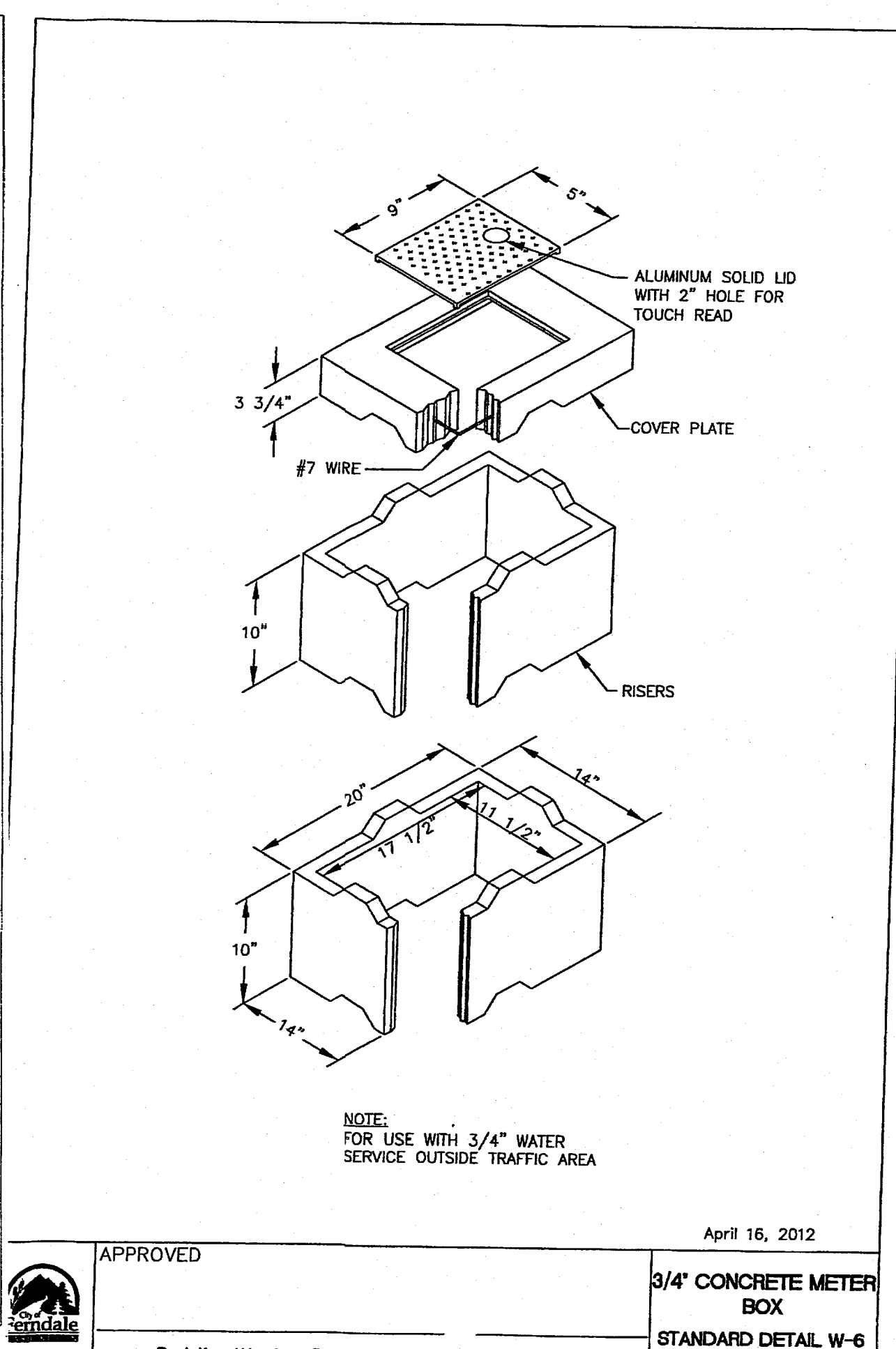
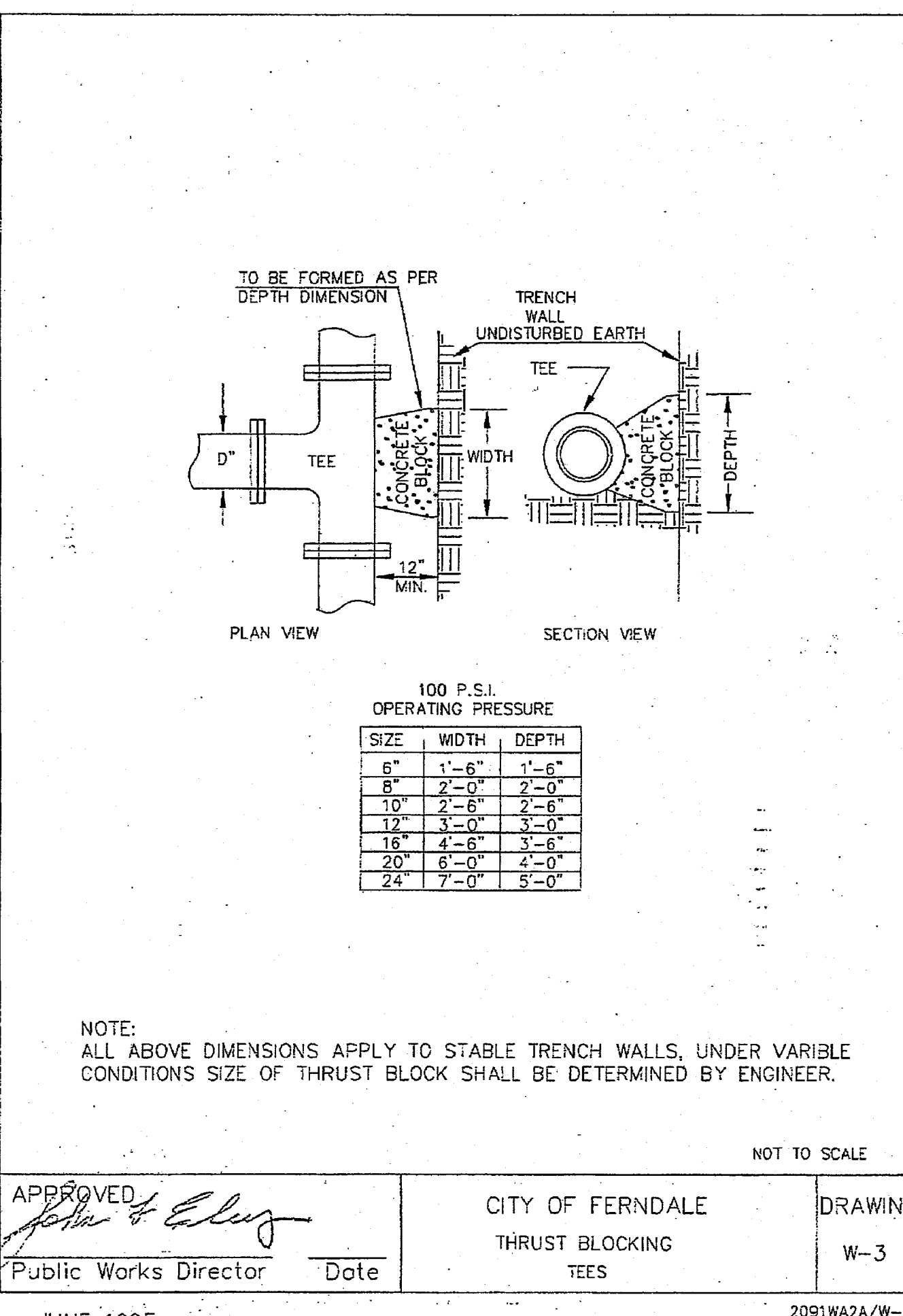
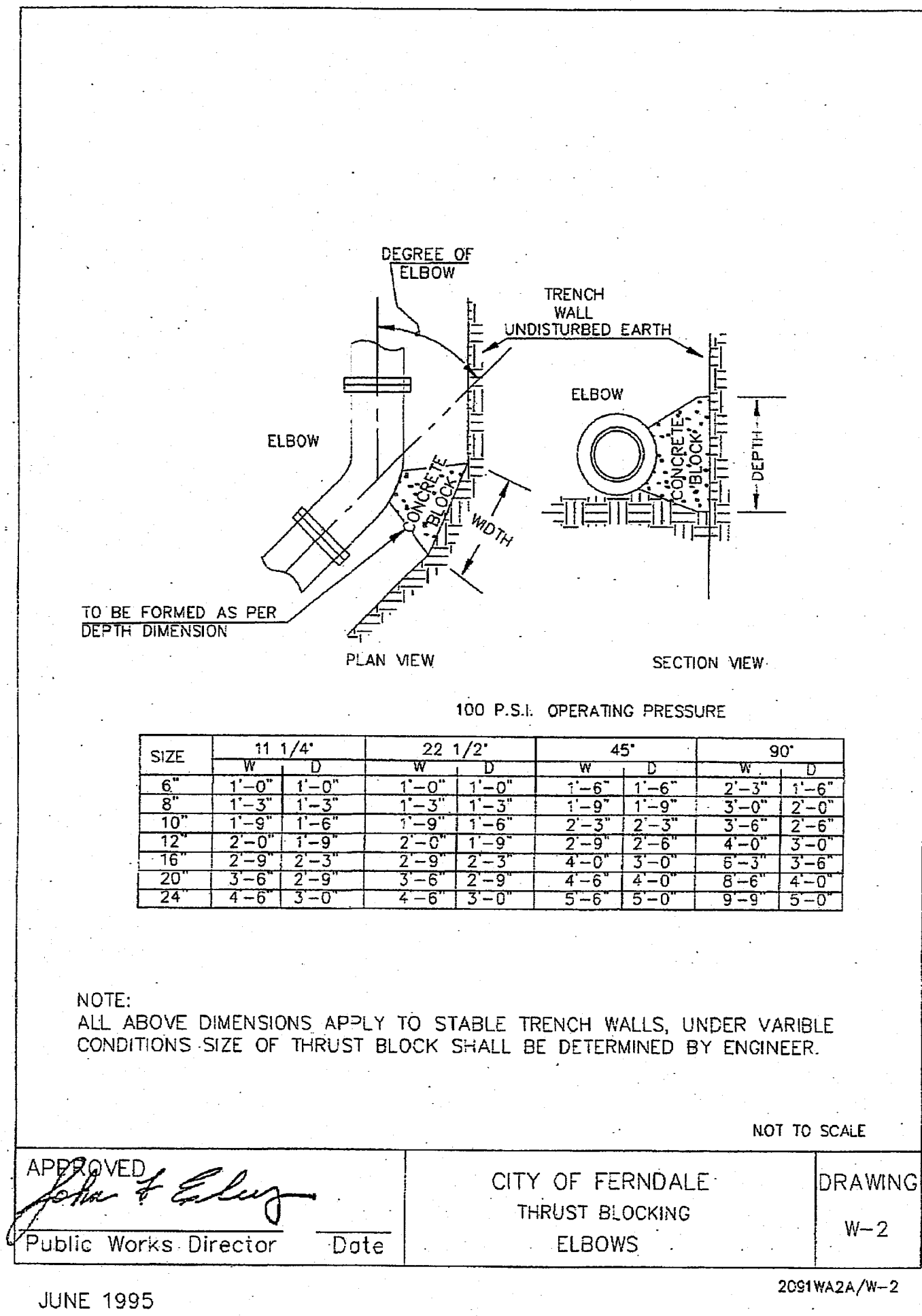
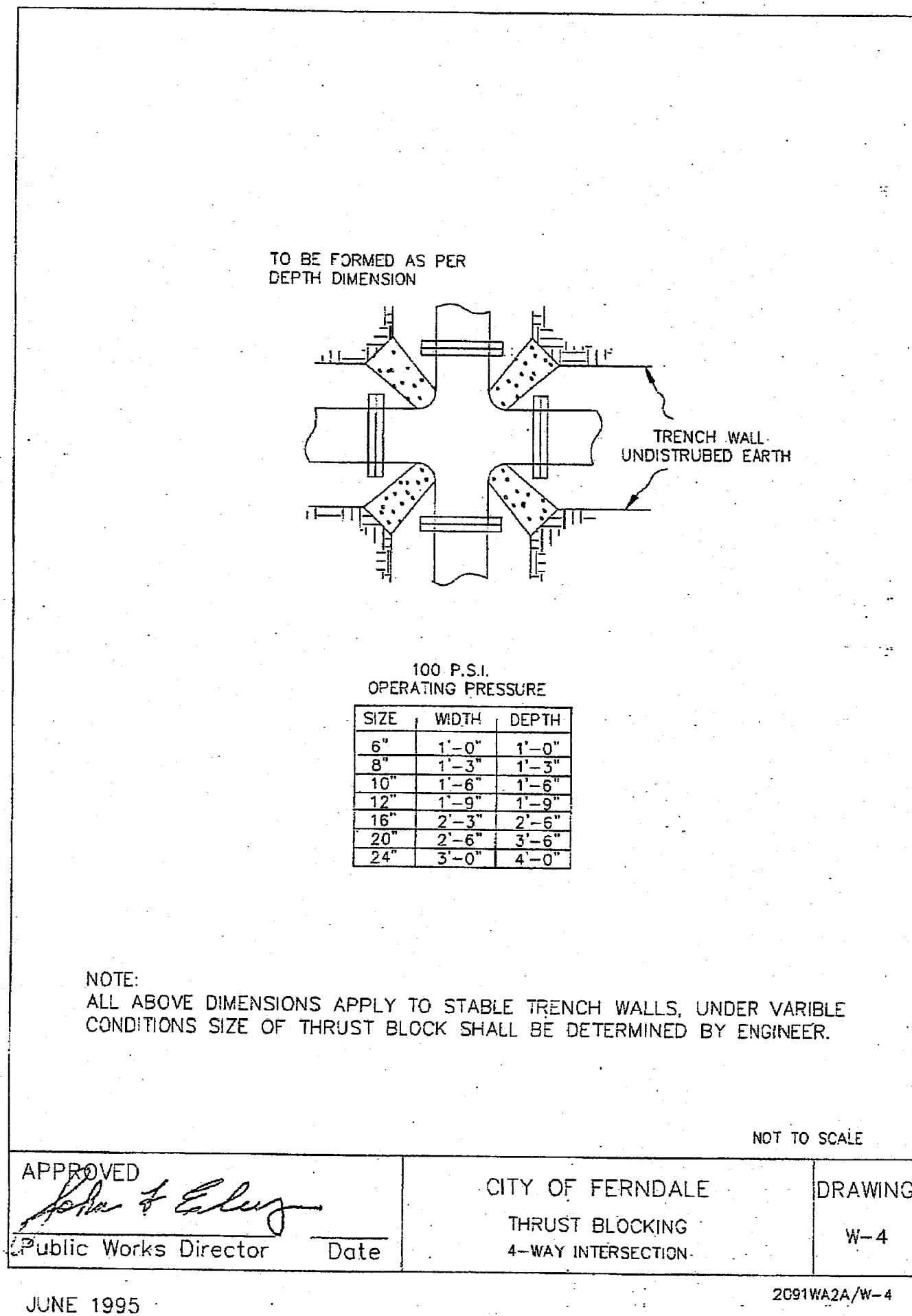
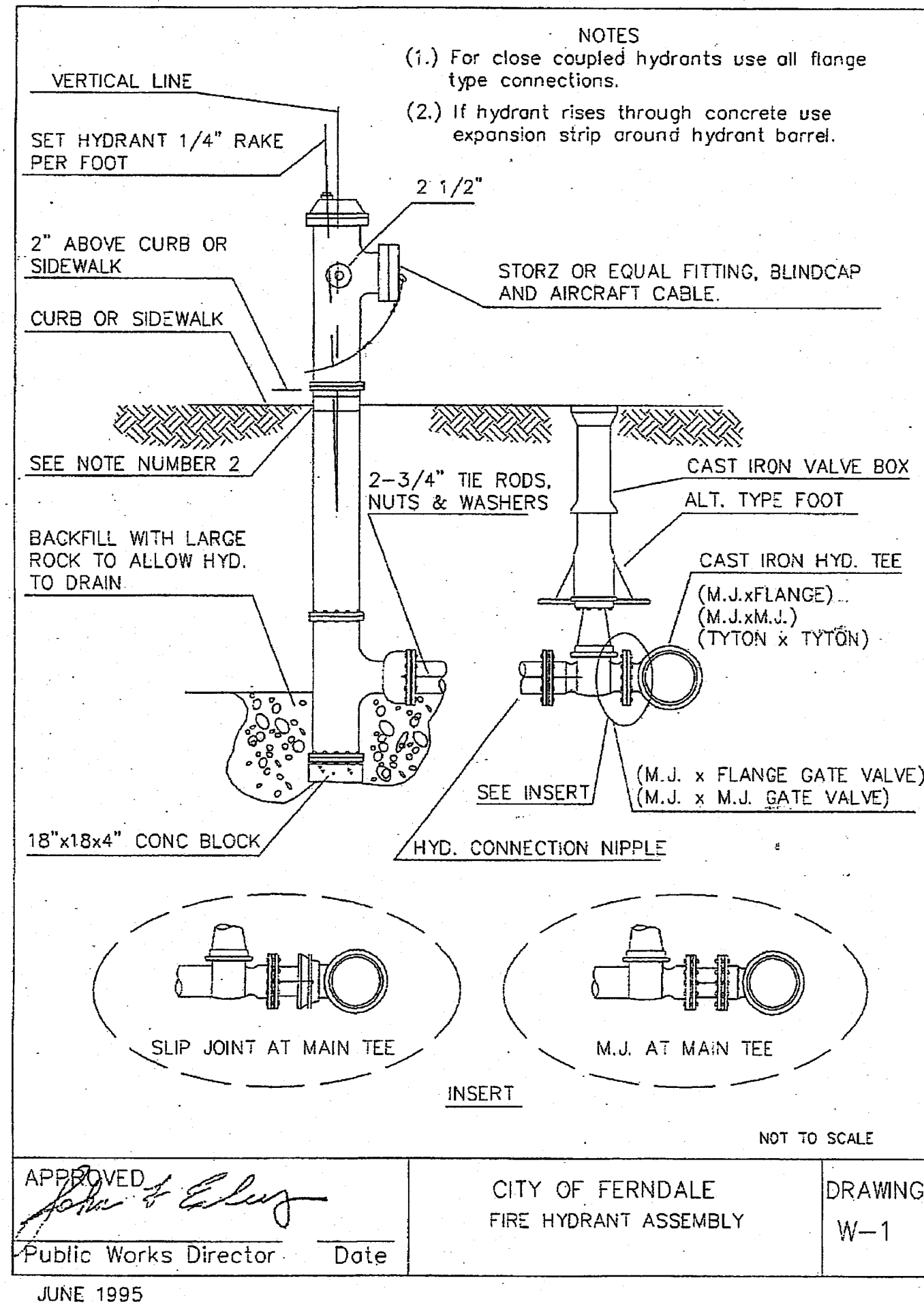
WEDEN ENGINEERING, LLC
Civil Engineering • Planning • Project Management

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(360) 880-1363 (360) 884-3615 FX
email: info@wedenengr.com



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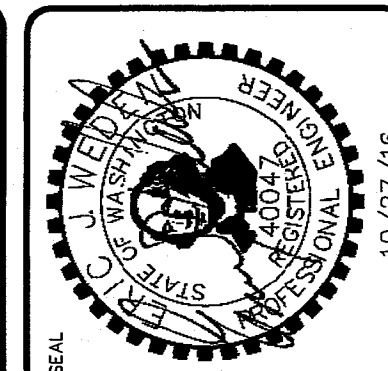
AS-BUILTS

PROJECT TITLE
THE MEADOWS - PHASE III
A PLANNED UNIT DEVELOPMENT
THORNTON ROAD
FERNDAL, WA

DRAWING TITLE
WATER DETAILS

DATE: 01/19/2015
DRAWING No.

27 of 29



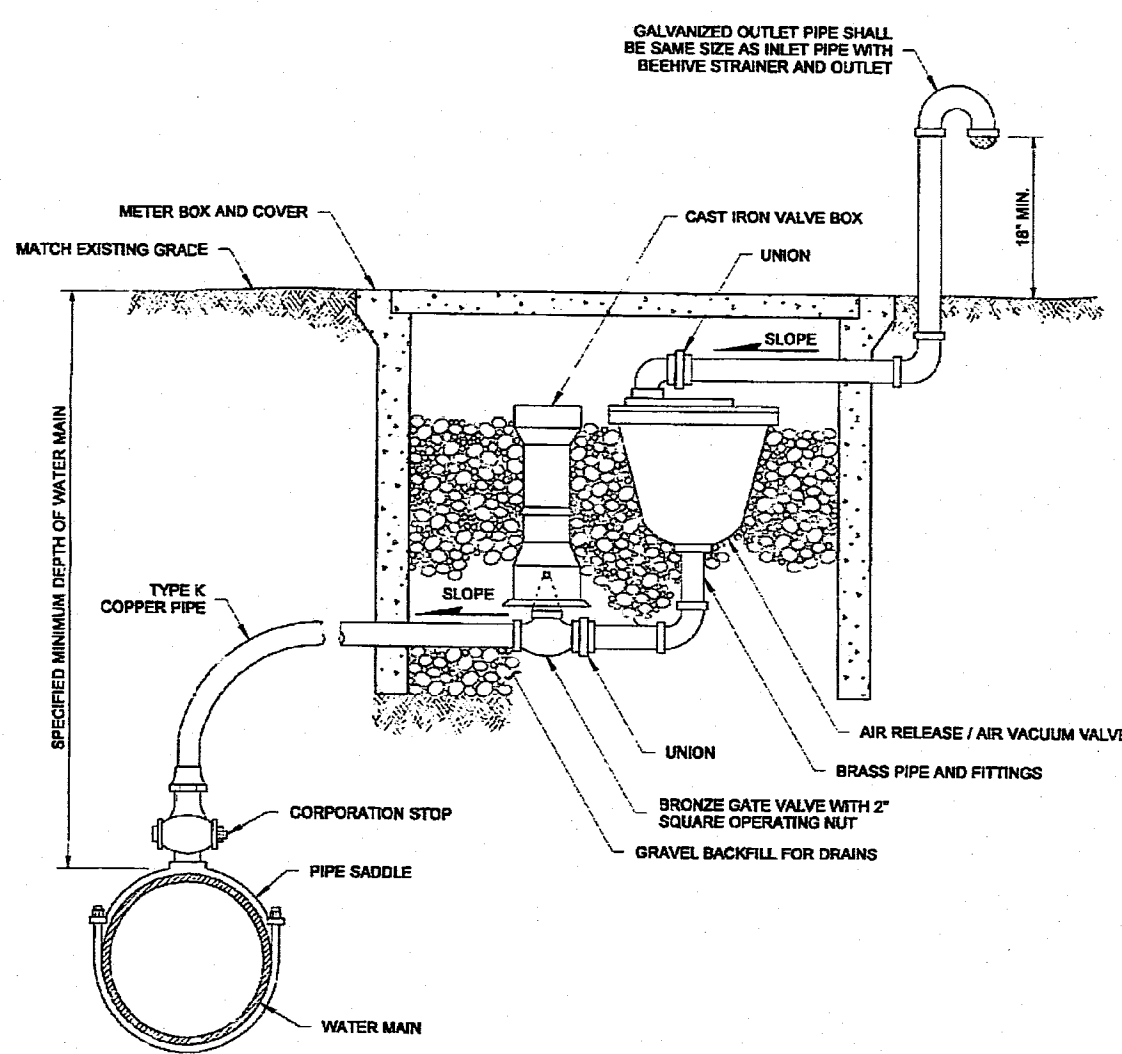
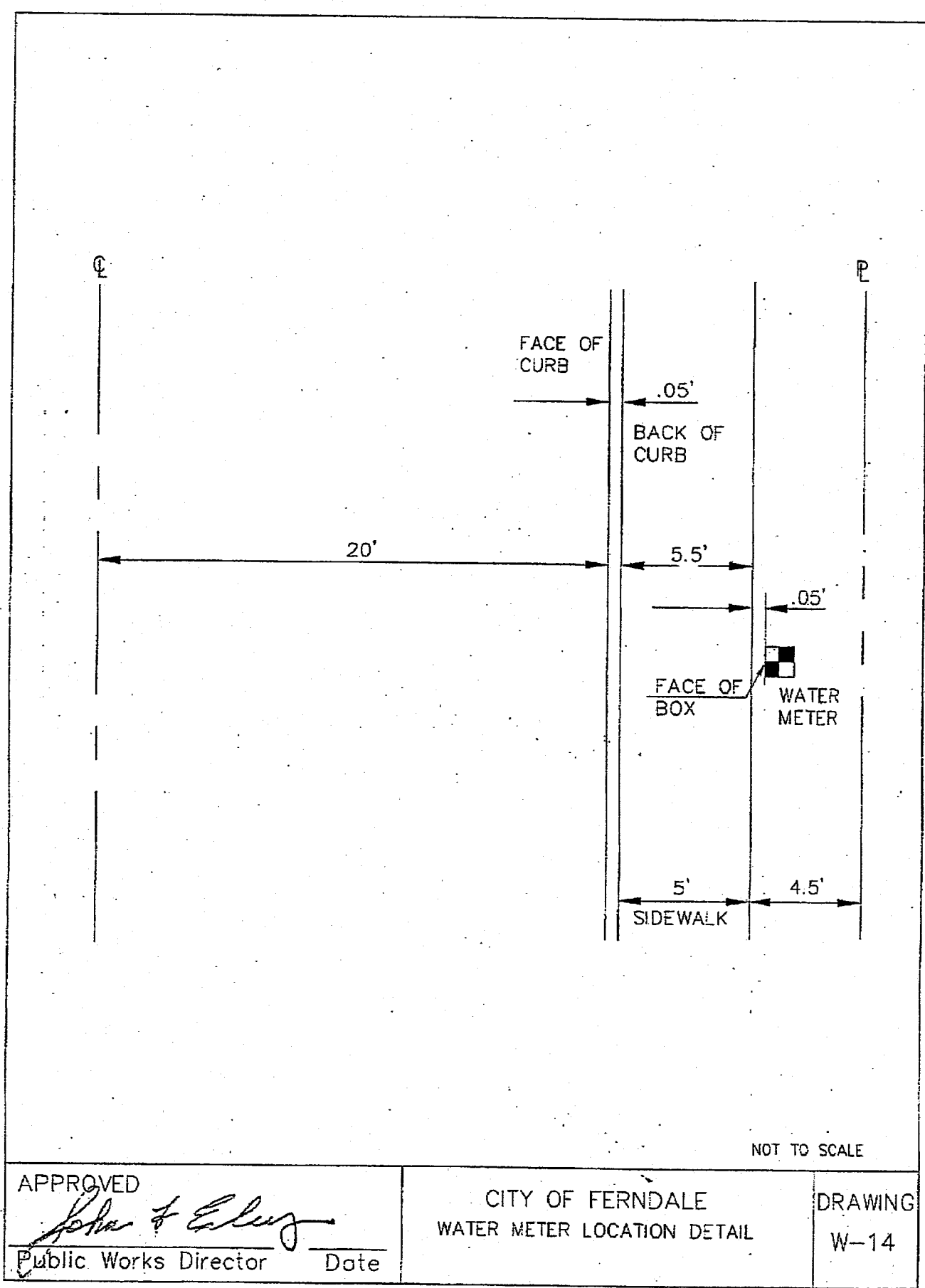
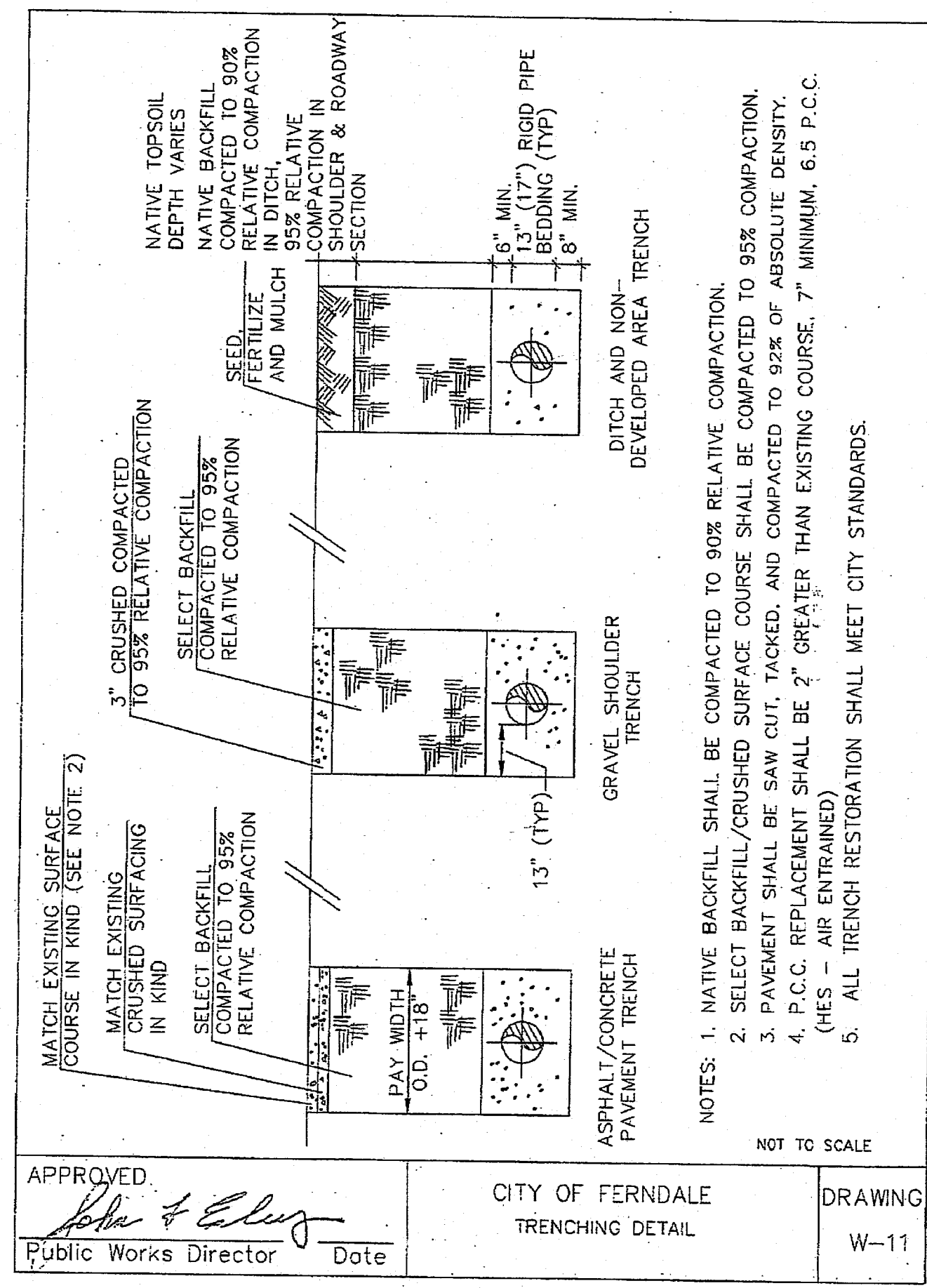
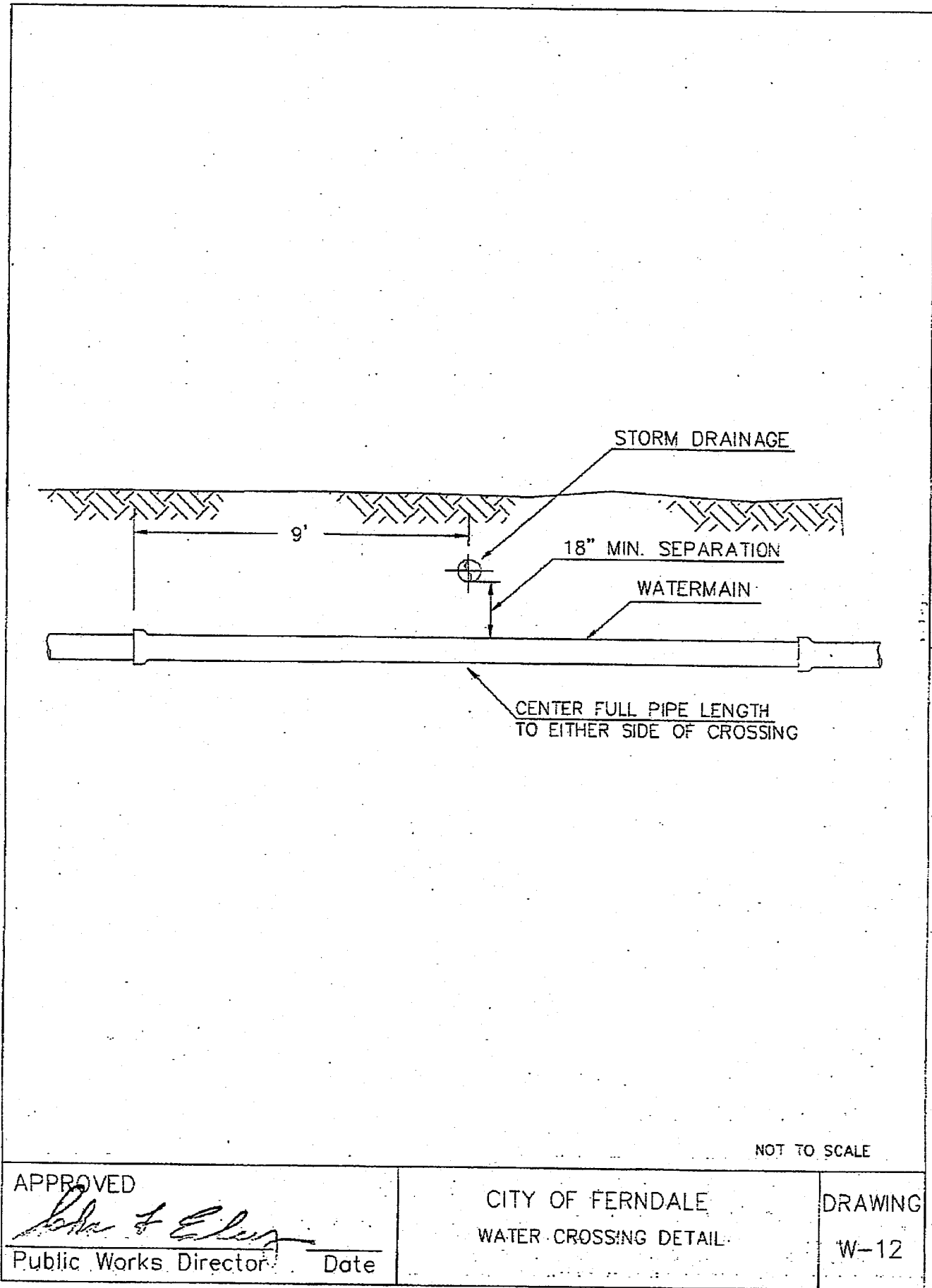
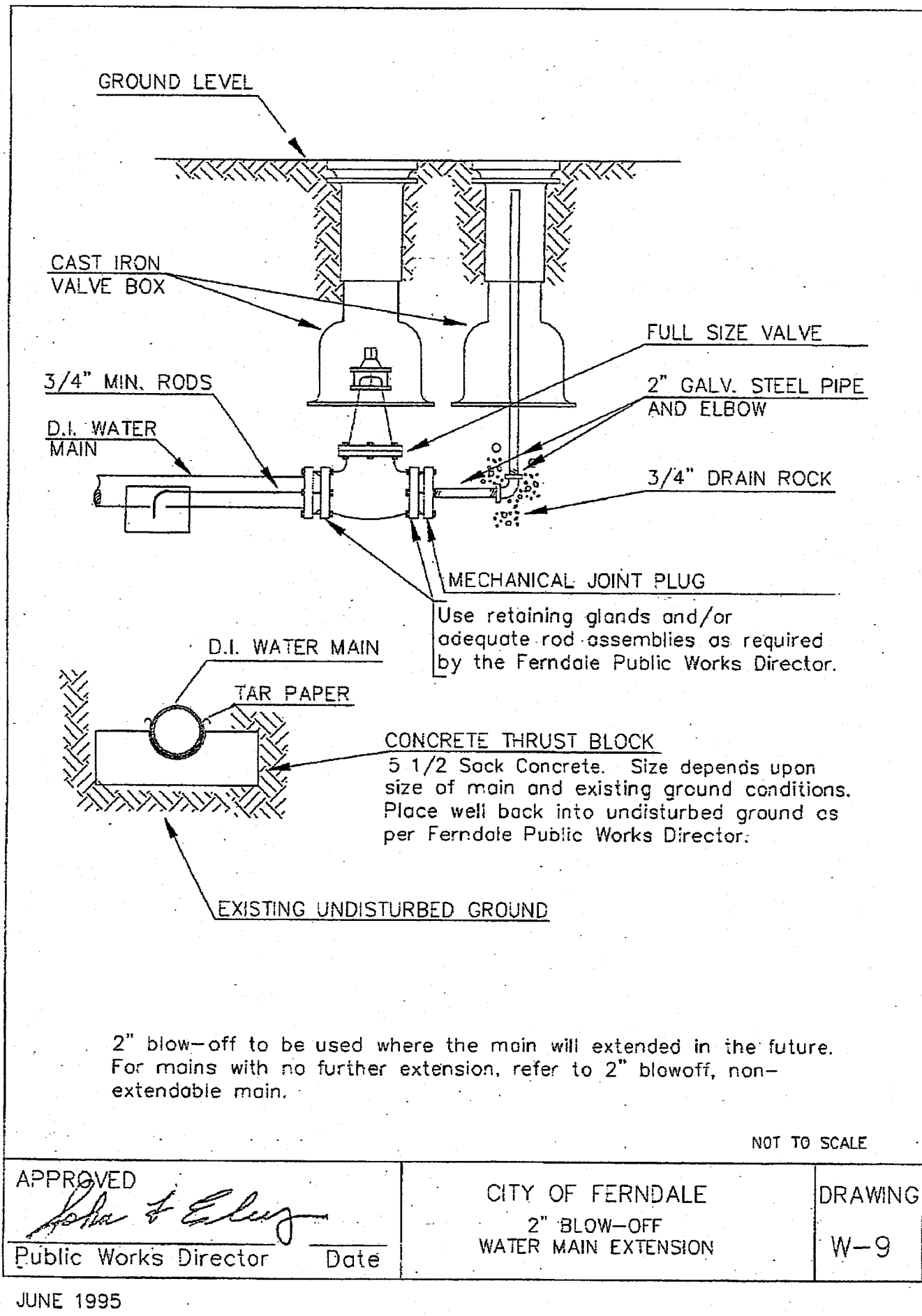
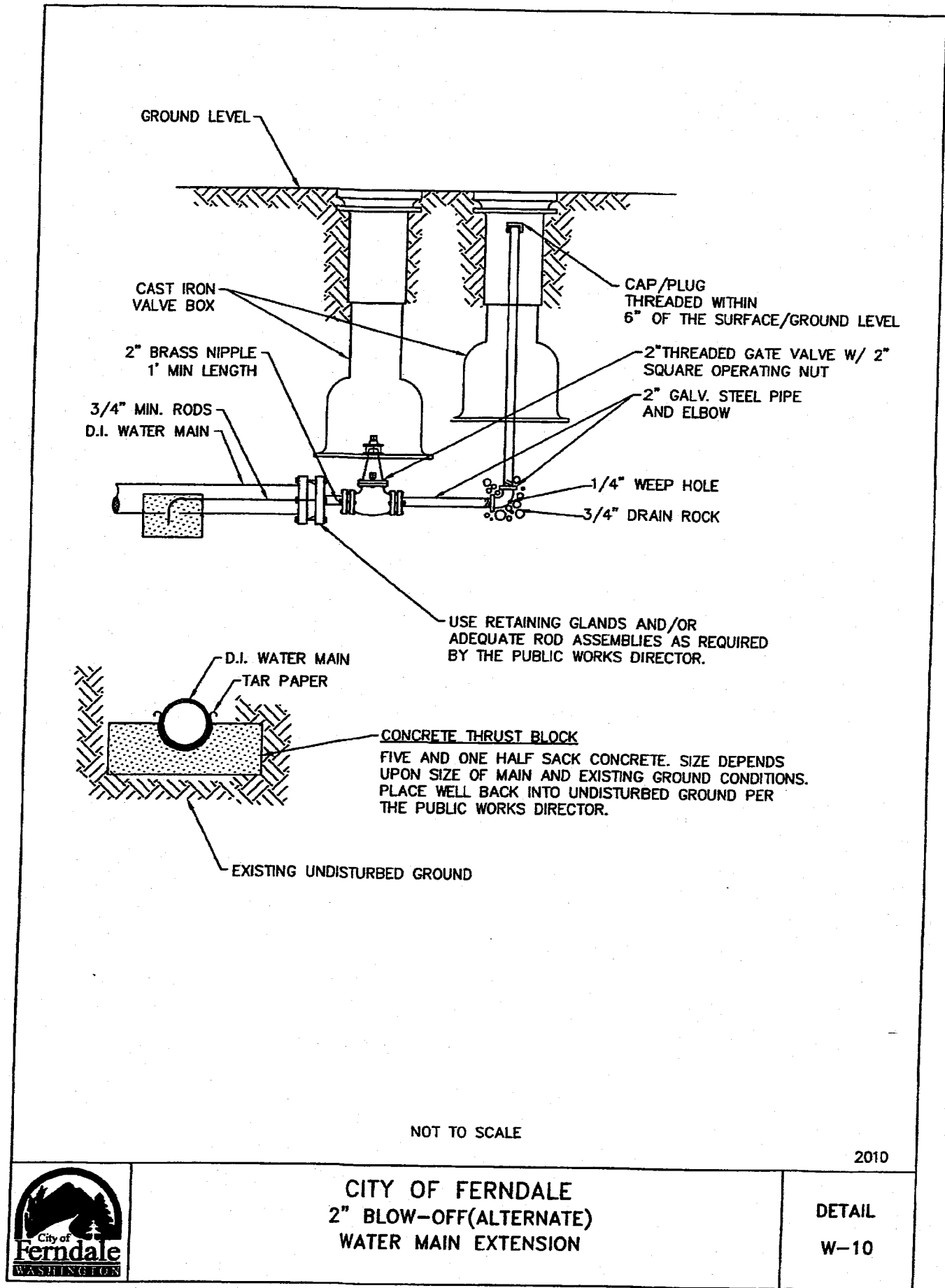
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Civil Engineering • Planning • Project Management
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(360) 380-1363 (360) 384-3815 Fax
email: info@wedenengineering.com

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DEC 12 2016
BY: *John & Elly*
CITY OF FERNDALE

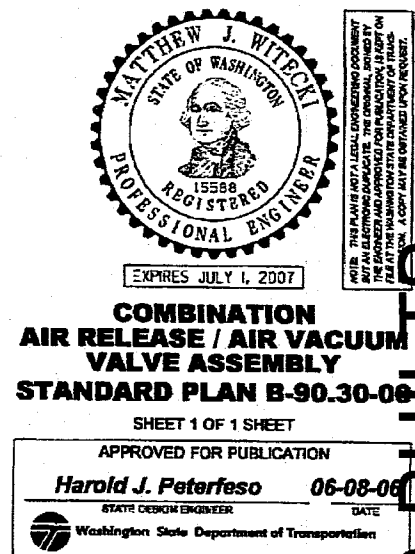
No.	REVISIONS/ SUBMISSIONS	DATE
1	AS-BUILT REVISED PER CITY REVIEW	10/13/16
2	AS-BUILT INFORMATION	05/30/16
3	REVISIONS PER CITY COMMENTS	05/29/15
2	REVISIONS PER CITY COMMENTS	04/17/15
1	REVISIONS PER CITY COMMENTS	03/19/15
REVIEWED:	EJW	DRAWN: KLS
CAD FILE:		PROJECT NO.: 1308-03

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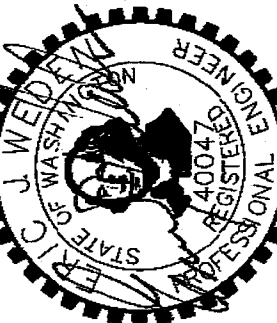
kenny 10/26/16 4:06pm - P:\308-03_The Meadows PH-III\CAD\Construction\As-Built\308-PH3-210748Ferdales.dwg



- NOTES
1. The size of the combination air release / air vacuum valve shall be specified in the Contract. The piping and valves shall be the same size as the combination air release / air vacuum valve.
 2. Locate at the high point of the main, tap top of main.



AS-BUILTS



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REVISIONS / SUBMISSIONS	DATE
AS-BUILT REVISED PER CITY REVIEW	10/13/16
AS-BUILT INFORMATION	05/30/16
REVISIONS PER CITY COMMENTS	05/28/15
REVISIONS PER CITY COMMENTS	04/17/15
REVISIONS PER CITY COMMENTS	03/19/15

PROJECT NO. : 1308-03

CAD FILE : E:\J

PROJECT TITLE
**THE MEADOWS - PHASE III
A PLANNED UNIT DEVELOPMENT
THORNTON ROAD
FERDALE, WA**

DRAWING TITLE
WATER DETAILS

DATE : 01/19/2015
DRAWING No.
28 of 29

20609.028 12/23/16 SH

