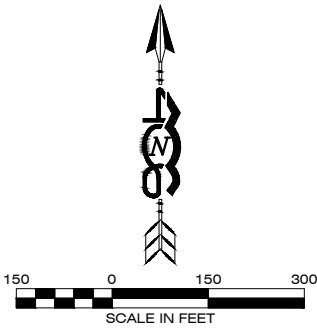


PRELIMINARY WATER MAIN CONSTRUCTION PLANS

ASPIRE SUBDIVISION

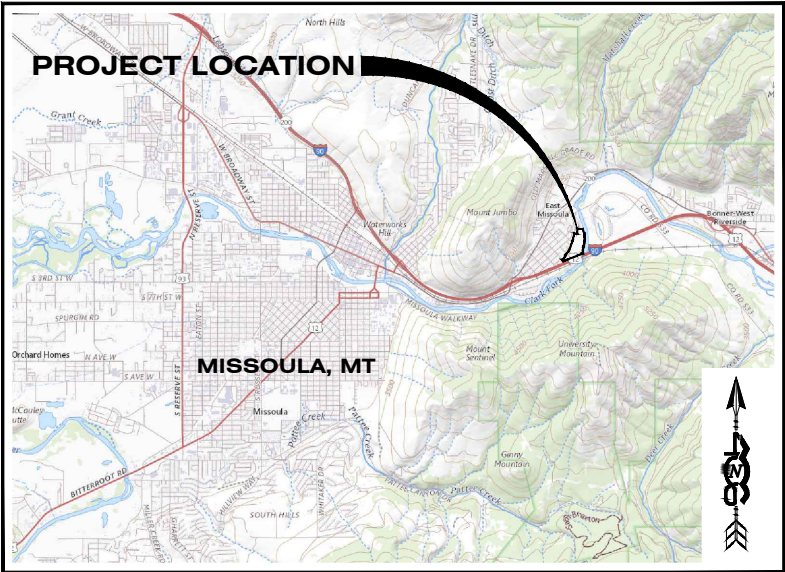
LOCATED IN SEC. 19, T.13N, R.18W, AND SEC. 24, T.13N., R.19W., P.M.M., MISSOULA COUNTY, MONTANA.



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2 BUSINESS DAYS BEFORE
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VICINITY MAP



406 ENGINEERING

CIVIL ENGINEERING
LAND USE CONSULTING
35 8th St. E
Kalispell, MT 59901
(406) 317-1131
www.406engineeringllc.com

DESIGNED: -
DRAFTED: SA
CHECKED: -
DATE: APRIL 2023

REVISIONS	DATE

LOCATION:	SEC. 19, T.13N, R.18W, AND SEC. 24, T.13N, R.19W, P.M.M., MISSOULA COUNTY, MONTANA
PREPARED FOR:	DENOVA HOMES

PROJECT NAME	ASPIRE SUBDIVISION WATER MAIN CONSTRUCTION PLANS
SHEET TITLE:	WATER MAIN PLAN & PROFILE

LEGEND

(E) EXISTING	(P) PROPOSED	
W	W	LOT LINE
WS	WS	EASEMENT
S	S	WATER MAIN
SS	SS	WATER SERVICE
FM	FM	SEWER MAIN
FMS	FMS	SEWER SERVICE
ST	ST	SEWER FORCE MAIN
OH	OH	SEWER FORCE MAIN SERVICE
E	E	STORM DRAIN PIPE
G	G	OVERHEAD UTILITY
T	T	BURIED POWER
TV	TV	GAS LINE
FO	FO	TELEPHONE LINE
	JUT	TELEVISION LINE
		FIBER OPTIC LINE
		JOINT UTILITY TRENCH
X	X	ROAD CENTERLINE
> S <	> S <	FENCE LINE
IRR	IRR	DITCH
IFM	IFM	SWALE
3450	3250	IRRIGATION MAIN
	GB	IRRIGATION FORCE MAIN
		MAJOR CONTOUR
		MINOR CONTOUR
		GRADE BREAK
		ASPHALT
		GRAVEL
		CONCRETE
		SEWER MANHOLE
		SEWER CLEANOUT
		SEPTIC TANK
		DRAINFIELD
		WELL
		FIRE HYDRANT
		WATER METER
		WATER VALVE
		WATER BLOW-OFF
		REDUCER
		THRUST BLOCK
		STORM DRAIN MANHOLE
		CULVERT
		CURB INLET
		CATCH BASIN
		SUMP
		UTILITY MANHOLE
		LIGHT POLE
		TELEPHONE JUNCTION BOX
		POWER VAULT
		TELEVISION JUNCTION BOX
		ELECTRICAL TRANSFORMER
		POWER METER
		GAS METER
		POWER POLE
		GUY WIRE
		SIGN
		MAILBOX
		DECIDUOUS TREE
		CONIFEROUS TREE
		BUSH/ SHRUB
		SOIL PROFILE
		PERCOLATION TEST
		GROUNDWATER MONITORING

SYMBOLS

DETAIL DESIGNATOR	DETAIL CALLOUT
SHEET DESIGNATOR	DETAIL SECTION
DETAIL DESIGNATOR	KEYED NOTE CALLOUT
SHEET DESIGNATOR	REVISION CALLOUT
	SLOPE GRADE
	FLOW DIRECTION

NOTE: NOT ALL FEATURES SHOWN IN LEGEND WILL BE PRESENT ON PLANS

GENERAL CONDITIONS OF CONSTRUCTION

- THE STANDARD GENERAL CONDITIONS OF THE CONTRACT PREPARED BY THE ENGINEERS JOINT CONTRACT DOCUMENTS COMMITTEE (COPYRIGHT 2007), AS INCLUDED IN MONTANA PUBLIC WORKS STANDARD SPECIFICATIONS, ARE HEREIN REFERRED TO AS THE GENERAL CONDITIONS WITHIN THESE DRAWINGS. COPIES OF THE GENERAL CONDITIONS WILL BE PROVIDED TO CONTRACTOR UPON WRITTEN REQUEST TO ENGINEER.
- WHEREVER USED IN THESE DRAWINGS, THE TERMS, WHETHER PRINTED WITH INITIAL CAPITAL LETTERS OR NOT, AS LISTED IN THE STANDARD GENERAL CONDITIONS OF THE CONSTRUCTION CONTRACT (GENERAL CONDITIONS), ARTICLE 1 - DEFINITIONS AND TERMINOLOGY, PREPARED BY THE ENGINEERS JOINT CONTRACT DOCUMENTS COMMITTEE (COPYRIGHT 2007) WILL HAVE THE MEANINGS INDICATED, WHICH ARE APPLICABLE TO BOTH THE SINGULAR AND PLURAL THEREOF, EXCEPT AS FOLLOWS:
 - THE CONTRACT DOCUMENTS SHALL MEAN THE DRAWINGS AS SHOWN IN THESE PLANS AND ANY APPLICABLE REFERENCED STANDARDS, SPECIFICATIONS, OR LAWS.
 - THE CONTRACT PRICE SHALL MEAN THE MONEYS PAYABLE BY OWNER TO CONTRACTOR FOR COMPLETION OF THE WORK IN ACCORDANCE WITH THE AGREEMENT.
 - THE CONTRACT TIMES SHALL MEAN THE NUMBER OF DAYS OR THE DATES STATED IN THE AGREEMENT TO COMPLETE THE WORK SO THAT IT IS READY FOR FINAL PAYMENT. IF NO SUCH DATES ARE ESTABLISHED, THE CONTRACT TIME SHALL BE 120 DAYS TO COMPLETE THE WORK.
 - EFFECTIVE DATE OF THE AGREEMENT SHALL HAVE THE MEANING AS LISTED IN THE GENERAL CONDITIONS, ARTICLE 1. IF NO SUCH AGREEMENT EXISTS, THE EFFECTIVE DATE OF THE AGREEMENT SHALL BE THE DAY THE CONTRACTOR PROCEEDS WITH THE WORK.
- BY PROCEEDING WITH THE WORK AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR MAKES THE FOLLOWING REPRESENTATIONS:
 - CONTRACTOR HAS EXAMINED AND CAREFULLY STUDIED THE DRAWINGS AND OTHER RELATED DATA.
 - CONTRACTOR IS FAMILIAR WITH AND IS SATISFIED AS TO ALL FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS THAT MAY AFFECT COST, PROGRESS, PERFORMANCE AND FURNISHING OF THE WORK.
 - CONTRACTOR HAS VISITED THE SITE AND BECOME FAMILIAR WITH AND IS SATISFIED AS TO THE GENERAL, LOCAL AND SITE CONDITIONS THAT MAY AFFECT COST, PROGRESS, PERFORMANCE OR FURNISHING OF THE WORK.
 - CONTRACTOR ACKNOWLEDGES THAT OWNER AND ENGINEER DO NOT ASSUME RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF INFORMATION AND DATA SHOWN OR INDICATED IN THE DRAWINGS WITH RESPECT TO UNDERGROUND FACILITIES AT OR CONTIGUOUS TO THE SITE.
 - CONTRACTOR HAS OBTAINED AND CAREFULLY STUDIED (OR ASSUMES RESPONSIBILITY FOR HAVING DONE SO) ALL SUCH ADDITIONAL SUPPLEMENTARY EXAMINATIONS, INVESTIGATIONS, EXPLORATIONS, TESTS, STUDIES AND DATA CONCERNING CONDITIONS (SURFACE, SUBSURFACE AND UNDERGROUND FACILITIES) AT OR CONTIGUOUS TO THE SITE OR OTHERWISE, WHICH MAY AFFECT COST, PROGRESS, PERFORMANCE OR FURNISHING OF THE WORK OR WHICH RELATE TO ANY ASPECT OF THE MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES OF CONSTRUCTION TO BE EMPLOYED BY CONTRACTOR INCLUDING APPLYING THE SPECIFIC MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES OF CONSTRUCTION, IF ANY, EXPRESSLY REQUIRED BY THE DRAWINGS TO BE EMPLOYED BY THE CONTRACTOR, AND SAFETY PRECAUTIONS AND PROGRAMS INCIDENT THERETO.
 - CONTRACTOR IS AWARE OF THE GENERAL NATURE OF WORK TO BE PERFORMED BY OWNER AND OTHERS AT THE SITE THAT RELATES TO THE WORK.
 - CONTRACTOR HAS GIVEN ENGINEER WRITTEN NOTICE OF ALL CONFLICTS, ERRORS, AMBIGUITIES OR DISCREPANCIES THAT CONTRACTOR HAS DISCOVERED IN THE DRAWINGS AND THE WRITTEN RESOLUTION THEREOF BY ENGINEER IS ACCEPTABLE TO CONTRACTOR.
 - THE DRAWINGS ARE GENERALLY SUFFICIENT TO INDICATE AND CONVEY UNDERSTANDING OF ALL TERMS AND CONDITIONS FOR PERFORMANCE AND FURNISHING OF THE WORK.
- IN RESOLVING DISPUTES RESULTING FROM CONFLICTS, ERRORS OR DISCREPANCIES, THE ORDER OF PRECEDENCE SHALL BE AS FOLLOWS, AS APPLICABLE TO THIS PROJECT: WRITTEN AGREEMENT BETWEEN OWNER AND CONTRACTOR, SPECIFICATIONS, DRAWINGS. WITHIN THE SPECIFICATIONS, THE ORDER OF PRECEDENCE IS AS FOLLOWS, AS APPLICABLE TO THIS PROJECT: ADDENDA/CHANGE ORDERS, CONTRACTORS BID, SPECIAL PROVISIONS, INSTRUCTIONS TO BIDDERS, SUPPLEMENTAL GENERAL CONDITIONS, NOTICE INVITING BIDS, GENERAL CONDITIONS, TECHNICAL SPECIFICATIONS, REFERENCED STANDARD SPECIFICATIONS, WITH REFERENCE TO THE DRAWINGS, THE ORDER OF PRECEDENCE IS AS FOLLOWS, AS APPLICABLE TO THIS PROJECT: FIGURES GOVERN OVER SCALED DIMENSIONS, DETAIL DRAWINGS GOVERN OVER GENERAL DRAWINGS, ADDENDA/CHANGE ORDER DRAWINGS GOVERN OVER CONTRACT DRAWINGS, CONTRACT DRAWINGS GOVERN OVER STANDARD DRAWINGS, CONTRACT DRAWINGS GOVERN OVER SHOP DRAWINGS.
- IF CONTRACTOR BELIEVES THAT ANY SUBSURFACE OR PHYSICAL CONDITION AT OR CONTIGUOUS TO THE SITE THAT
 - IS UNCOVERED OR REVEALED EITHER IS OF SUCH A NATURE AS TO REQUIRE A CHANGE IN THE DRAWINGS; OR
 - DIFFERS MATERIALLY FROM THAT SHOWN OR INDICATED IN THE DRAWINGS; OR
 - IS OF AN UNUSUAL NATURE, AND DIFFERS MATERIALLY FROM CONDITIONS ORDINARILY ENCOUNTERED AND GENERALLY RECOGNIZED AS INHERENT IN WORK OF THE CHARACTER PROVIDED IN THE DRAWINGS;THEN CONTRACTOR SHALL PROMPTLY AFTER BECOMING AWARE THEREOF AND BEFORE FURTHER DISTURBING THE SUBSURFACE OR PHYSICAL CONDITIONS OR PERFORMING ANY WORK IN CONNECTION THEREWITH (EXCEPT IN AN EMERGENCY), NOTIFY OWNER AND ENGINEER IN WRITING ABOUT SUCH CONDITION. CONTRACTOR SHALL NOT FURTHER DISTURB SUCH CONDITION OR PERFORM ANY WORK IN CONNECTION THEREWITH (EXCEPT AS AFORESAID) UNTIL RECEIPT OF WRITTEN ORDER TO DO SO.
- SECTION 2.06 OF THE GENERAL CONDITIONS IS HEREBY INCORPORATED INTO THESE DRAWINGS.
- SECTION 3.03.A.2 OF THE GENERAL CONDITIONS IS HEREBY INCORPORATED INTO THESE DRAWINGS.
- SECTION 3.05 OF THE GENERAL CONDITIONS IS HEREBY INCORPORATED INTO THESE DRAWINGS.
- SECTION 3.06 OF THE GENERAL CONDITIONS IS HEREBY INCORPORATED INTO THESE DRAWINGS.
- SECTION 4.05 OF THE GENERAL CONDITIONS IS HEREBY INCORPORATED INTO THESE DRAWINGS.
- SECTION 6.01, 6.02.A, AND 6.03 OF THE GENERAL CONDITIONS ARE HEREBY INCORPORATED INTO THESE DRAWINGS.
- SUBSTITUTES AND "OR-EQUALS" ITEMS ARE SUBJECT TO THE PROVISIONS OF THE GENERAL CONDITIONS, SECTION 6.05.
- SECTION 6.13 OF THE GENERAL CONDITIONS IS HEREBY INCORPORATED INTO THESE DRAWINGS, EXCEPT THAT SECTION 6.13.D SHALL BE REPLACED WITH THE FOLLOWING SENTENCE:

CONTRACTOR'S DUTIES AND RESPONSIBILITY FOR SAFETY AND FOR PROTECTION OF THE WORK SHALL CONTINUE UNTIL SUCH TIME AS ALL THE WORK IS COMPLETED AND ENGINEER AND OWNER, AS APPLICABLE TO THE WORK, HAVE ACCEPTED THAT THE WORK IS COMPLETE.
- SECTION 6.11, 6.14, 6.15, 6.16, 6.18, 6.19, 6.20, AND 6.21 OF THE GENERAL CONDITIONS ARE HEREBY INCORPORATED INTO THESE DRAWINGS.
- ARTICLE 9 - ENGINEER'S STATUS DURING CONSTRUCTION OF THE GENERAL CONDITIONS IS HEREBY INCORPORATED INTO THESE DRAWINGS, EXCEPT AS FOLLOWS:
 - DELETE THE LAST SENTENCE OF SECTION 9.05.A.
 - DELETE SECTION 9.06, 9.07, 9.08.B, 9.08.C, AND 9.09.D.
- SECTION 10.02 OF THE GENERAL CONDITIONS IS HEREBY INCORPORATED INTO THESE DRAWINGS.
- ARTICLE 13 - TESTS AND INSPECTIONS, CORRECTION, REMOVAL OR ACCEPTANCE OF DEFECTIVE WORK OF THE GENERAL CONDITIONS IS HEREBY INCORPORATED INTO THESE DRAWINGS.

SPECIAL SPECIAL PROVISIONS

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS, LICENSES AND FEES REQUIRED FOR COMPLETION OF THIS PROJECT UNLESS SPECIFICALLY NOTED OTHERWISE.
- THE CONTRACTOR SHALL PROVIDE THE OWNER WITH A 24 HOUR PHONE NUMBER OF A PARTY RESPONSIBLE AND CAPABLE OF IMMEDIATE LOCAL RESPONSE TO EMERGENCY MAINTENANCE FOR THE DURATION OF THE WORK. CONTRACTOR SHALL PROVIDE THE NAME OF THE RESPONSIBLE PARTY AND PHONE NUMBER IN WRITING PRIOR TO PROCEEDING WITH THE WORK.
- UNLESS NOTED OTHERWISE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY NECESSARY TRAFFIC CONTROL ON AND OFF-SITE INCLUDING OBTAINING ANY APPLICABLE PERMITS.
- MATERIAL STOCKPILED ALONG THE PROJECT ROUTE SHALL BE DONE SO IN A MANNER THAT DOES NOT AFFECT PUBLIC SAFETY AND IS IN A NEAT AND ORDERLY FASHION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSING OF ALL WASTE AND EXCESS MATERIALS SUCH AS, BUT NOT LIMITED TO: VEGETATION, TREES, BRUSH, ASPHALT, CONCRETE, SUB-GRADE SOILS, ETC., OFFSITE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL LAWS. THE OWNER RESERVES THE RIGHT TO REQUEST CERTAIN WASTE MATERIALS TO BE STOCKPILED AT A LOCATION ON-SITE.
- THE CONTRACTOR WILL BE RESPONSIBLE TO ADHERE TO THE MDEQ OR EPA APPROVED STORM WATER POLLUTION PREVENTION PLAN (SWPPP), IF APPLICABLE TO THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE MADE TO BMPS IDENTIFIED IN THE SWPPP. THE APPROVED STORM WATER POLLUTION PREVENTION PLAN WILL BE PROVIDED BY OWNER TO CONTRACTOR UPON WRITTEN REQUEST. IF A SWPPP HAS NOT BEEN PREPARED FOR THE PROJECT, BUT IS REQUIRED BY REGULATION, THE CONTRACTOR IS RESPONSIBLE FOR PREPARING AND SUBMITTING A NOTICE OF INTENT AND SWPPP.
- THE CONTRACTOR WILL BE REQUIRED TO MAKE EVERY EFFORT TO IMMEDIATELY RESTORE THE CONSTRUCTION AREA ONCE THE CONSTRUCTION TASK IS COMPLETED. ALL SEEDING SHALL BE COMPLETED IN ACCORDANCE WITH MPWSS 02910. THIS INCLUDES SUCH REQUIRED ACTIVITIES AS FINISH GRADING, SPREADING OF TOPSOIL, RESTORING IRRIGATION, REPLACING TRAFFIC AND STREET SIGNS, ETC. THE CONTRACTOR WILL HAVE 48 HOURS TO BEGIN RESTORATION ONCE THE CONSTRUCTION TASK IN THE IMMEDIATE AREA IS COMPLETE. ONCE RESTORATION IS BEGUN, IT MUST BE COMPLETED WITHOUT INTERRUPTION TO THE EXTENT POSSIBLE.
- AFTER ALL WORK ON THIS PROJECT IS COMPLETED AND BEFORE FINAL ACCEPTANCE OF THE PROJECT, THE ENTIRE PROJECT SHALL BE NEATLY FINISHED TO THE LINES, GRADES, AND CROSS SECTIONS SHOWN ON THE PLANS AND AS HEREINAFTER SPECIFIED.
 - DRAINAGE FACILITIES, SUCH AS INLETS, CATCH BASINS, STORM PIPE, CULVERTS, AND CURB AND GUTTER SHALL BE CLEANED OF ALL DEBRIS, GRAVEL, SILTS OR OTHER FOREIGN MATERIAL.
 - THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL CONSTRUCTION STAKES.
 - ALL AREAS DISTURBED BY THE CONSTRUCTION SHALL BE SHAPED TO PRESENT A UNIFORM APPEARANCE BLENDING INTO THE CONTOUR OF ADJACENT PROPERTIES. ALL SURFACE REPLACEMENT AND LANDSCAPING SHALL BE COMPLETED.
 - EXCEPT AS OTHERWISE PERMITTED, ALL EXCESS EXCAVATED MATERIALS SHALL BE DISPOSED OF AWAY FROM THE SITE OF THE WORK.
 - BROKEN CONCRETE AND OTHER DEBRIS RESULTING FROM PAVEMENT OR SIDEWALK REMOVAL, EXCAVATED ROCK IN EXCESS OF THE AMOUNT PERMITTED, AND OTHER WASTE AND DEBRIS ENCOUNTERED IN EXCAVATED WORK, AND OTHER SIMILAR WASTE MATERIALS SHALL BE DISPOSED OF AWAY FROM THE SITE.THERE WILL BE NO SEPARATE MEASUREMENT OR PAYMENT FOR CLEANUP, AND ALL COSTS FOR SUCH WORK SHALL BE INCLUDED IN THE CONTRACT PRICE.
- NO ON-SITE BURNING OF WASTE MATERIALS WILL BE ALLOWED.
- IF A STREET HAS NOT BEEN SURFACED AND CLEANED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL AND MAINTENANCE OF THE STREET. ALSO, IF DETOURS ARE MADE ON A GRAVEL ROAD, THE CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL AND MAINTENANCE ON THE DETOURS. SEE "AIR QUALITY" BELOW ALSO.
- DAILY STREET SWEEPING SHALL BE COMPLETED ON BOTH ENDS OF EACH STREET DURING CONSTRUCTION. UNPAVED DETOURS OR ANY OTHER FUGITIVE DUST EMISSION SOURCES FROM CONSTRUCTION AND DEMOLITION SHOULD BE WATERED AND/OR CHEMICALLY STABILIZED SO EMISSIONS ARE LESS THAN 20% OPACITY.

UTILITY NOTES

- THE CONTRACTOR SHALL NOTIFY APPROPRIATE PERSONNEL FOR UTILITY LOCATIONS AND NOTICE OF CONSTRUCTION COMMENCEMENT AT LEAST TWO BUSINESS DAYS PRIOR TO PROCEEDING WITH THE WORK. BEFORE CONTRACTOR PROCEEDS WITH THE WORK, A COMMON LOCATE SERVICE (ONE CALL) IS AVAILABLE AT 1-800-551-8344. ALL UNDERGROUND FACILITIES MAY NOT BE LOCATED BY THE ONE CALL SERVICE INCLUDING BUT NOT LIMITED TO SUCH UNDERGROUND FACILITIES AS IRRIGATION SYSTEMS, PUBLIC AND PRIVATE WATER AND SEWER SYSTEMS, ETC.
- THE INFORMATION AND DATA SHOWN OR INDICATED IN THE DRAWINGS WITH RESPECT TO EXISTING UNDERGROUND FACILITIES AT OR CONTIGUOUS TO THE SITE IS BASED ON INFORMATION AND DATA FURNISHED TO OWNER OR ENGINEER BY THE OWNERS OF SUCH UNDERGROUND FACILITIES, INCLUDING OWNER, OR BY OTHERS. UNLESS IT IS OTHERWISE NOTED:
 - OWNER AND ENGINEER SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ANY SUCH INFORMATION OR DATE; AND
 - THE COST OF ALL OF THE FOLLOWING WILL BE INCLUDED IN THE CONTRACT PRICE, AND CONTRACTOR SHALL HAVE FULL RESPONSIBILITY FOR:
 - REVIEWING AND CHECKING ALL SUCH INFORMATION AND DATA.
 - LOCATING ALL UNDERGROUND FACILITIES SHOWN OR INDICATED IN THE DRAWINGS.
 - COORDINATION OF THE WORK WITH THE OWNERS OF SUCH UNDERGROUND FACILITIES, INCLUDING OWNER, DURING CONSTRUCTION, AND
 - THE SAFETY AND PROTECTION OF ALL SUCH UNDERGROUND FACILITIES AND REPAIRING ANY DAMAGE THERETO RESULTING FROM THE WORK.
 - AT LEAST 2 BUSINESS DAYS BEFORE BEGINNING ANY EXCAVATION, THE CONTRACTOR SHALL, ACCORDING TO MCA 69-4-501, NOTIFY ALL OWNERS OF UNDERGROUND FACILITIES AND COORDINATE THE WORK WITH THE OWNERS OF SUCH UNDERGROUND FACILITIES. THE INFORMATION SHOWN OR INDICATED IN THE DRAWINGS WITH RESPECT TO EXISTING UNDERGROUND FACILITIES IS BASED ON INFORMATION AND DATA OBTAINED FROM THE OWNERS OF THE FACILITIES WITHOUT FIELD EXPLORATION, AND AS SUCH, OWNER AND ENGINEER ARE NOT RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SUCH INFORMATION OR DATA.
- THE CONTRACTOR SHALL SUPPORT AND PROTECT ALL EXPOSED UTILITIES IN CONFORMANCE WITH THE UTILITY OWNERS STANDARDS.
- ALL UTILITY SERVICES SHALL BE CONSTRUCTED PER THE INTERNATIONAL PLUMBING CODE, LOCAL JURISDICTIONAL POLICY, AND THE SERVICE PROVIDER STANDARDS AND SPECIFICATIONS.
- ALL UTILITY WORK SHALL BE COMPLETED BEFORE PAVING.

SUBMITTALS, QUALITY CONTROL & ASSURANCE, INSPECTIONS, AND TESTING

- CONTRACTOR SHALL COMPLY WITH SUMMARY OF WORK, SECTION 01010, MPWSS.
- CONTRACTOR SHALL COMPLY WITH PROJECT COORDINATION, SECTION 01041, MPWSS.
- CONTRACTOR SHALL COMPLY WITH FIELD ENGINEERING, SECTION 01050, MPWSS. REPLACE PART 1.1.A WITH: "NOTIFY ENGINEER OF REQUIRED SURVEY WORK AT LEAST 5 DAYS BEFORE STARTING WORK."
- CONTRACTOR SHALL COMPLY WITH SUBMITTALS, SECTION 01300, MPWSS.
- CONTRACTOR SHALL COMPLY WITH THE CONTRACTOR QUALITY CONTROL AND OWNER QUALITY ASSURANCE, SECTION 01400 MPWSS.
- CONTRACTOR SHALL COMPLY WITH CONTRACT CLOSEOUT, SECTION 01700, MPWSS.
- CONTRACTOR SHALL COMPLY WITH ALL DENSITY CONTROL TESTING, PART 1.3, FOR SUB BASE COURSE, SECTION 02234 MPWSS. THIS DOES NOT EXCLUDE ANY OTHER REQUIREMENTS OF SECTION 02234 MPWSS.
- CONTRACTOR SHALL COMPLY WITH ALL DENSITY CONTROL TESTING, PART 1.3, AND MATERIALS SUBMITTALS, PART 1.4, FOR CRUSHED BASE COURSE, SECTION 02235 MPWSS. THIS DOES NOT EXCLUDE ANY OTHER REQUIREMENTS OF SECTION 02235 MPWSS.
- CONTRACTOR SHALL COMPLY WITH PAVEMENT AND MATERIAL TESTING REQUIREMENTS, PART 3.29, FOR ASPHALT CONCRETE PAVEMENT, SECTION 02510 MPWSS. THIS DOES NOT EXCLUDE ANY OTHER REQUIREMENTS OF SECTION 02510 MPWSS.
- CONTRACTOR SHALL COMPLETE TRENCH EXCAVATION AND BACKFILL IN ACCORDANCE WITH SECTION 02221 MPWSS. THIS INCLUDES BACKFILL FOR STORM DRAINAGE INFRASTRUCTURE.
- THE CONTRACTOR SHALL COORDINATE WITH ENGINEER TO OBTAIN SAMPLES OF TRENCH BACKFILL MATERIAL TO BE USED ON-SITE. THIS INCLUDES BACKFILL FOR STORM DRAINAGE INFRASTRUCTURE.
- CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATION WITH A MATERIAL TESTING COMPANY OF THE OWNERS SELECTION TO COMPLETE COMPACTION TESTING OF TRENCH BACKFILL. COORDINATION INCLUDES UPDATING APPROPRIATE PERSONNEL EMPLOYED BY THE MATERIAL TESTING COMPANY EVERY WORK DAY AS TO PROGRESS OF WORK SO ADEQUATE TESTING CAN BE COMPLETED.
- THE CONTRACTOR WILL BE REQUIRED TO PREPARE A SET OF DETAILED AS-BUILT DRAWINGS TO BE PRESENTED TO THE ENGINEER AT THE COMPLETION OF THE PROJECT. THE AS-BUILT DRAWINGS SHALL BE UPDATED DAILY AND REVIEWED WEEKLY BY THE PROJECT ENGINEER. AS-BUILT DRAWINGS SHALL INCLUDE, BUT NOT LIMITED TO LOCATION/DEPTHS OF EXISTING UTILITIES ENCOUNTERED DURING COMPLETING THE WORK AND LOCATION/DEPTHS OF INSTALLED INFRASTRUCTURE COMPLETED AS PART OF THE WORK. INSTALLED INFRASTRUCTURE INCLUDES CULVERTS, PONDS, STORM DRAINAGE SYSTEMS, CATCH BASINS, DRY-WELL SUMPS, STORM MANHOLES, SWALES, DITCHES, DRY UTILITIES (GAS, POWER, PHONE, ETC.), AND ROAD AND PEDESTRIAN FEATURES SUCH AS HANDICAP RAMPS, SIDEWALKS, ROADS, CURB AND GUTTER, ETC.

CONSTRUCTION NOTES

- ALL WORK SHALL BE IN ACCORDANCE WITH THE MONTANA PUBLIC WORKS STANDARD SPECIFICATIONS (MPWSS), SIXTH EDITION, DATED APRIL 2010, LOCAL JURISDICTIONAL STANDARDS, SPECIAL PROVISIONS, AND CONTRACT DOCUMENTS.
- CONTRACTOR SHALL COMPLY WITH CONSTRUCTION AND TEMPORARY FACILITIES, SECTION 01500, MPWSS.
- CONTRACTOR SHALL COMPLY WITH CONSTRUCTION TRAFFIC CONTROL, SECTION 01570, MPWSS.
- FOR ROAD PLAN AND PROFILE SHEETS, THE STATIONING AND ELEVATIONS PROVIDED ARE FOR FINISHED GRADE AT CENTERLINE OF ROAD, UNLESS NOTED OTHERWISE.
- FOR PROPOSED PIPE INSTALLATIONS (CULVERTS, STORM DRAINS, IRRIGATION, ETC.), THE STATIONING IS FROM CENTERLINE OF PIPE AND ELEVATIONS ARE FROM INVERT OF PIPE, UNLESS NOTED OTHERWISE.
- ELEVATIONS SHOWN ON THE DRAWINGS ARE TO FINISHED SURFACE GRADE UNLESS OTHERWISE INDICATED.
- ELEVATIONS FOR CURB AND GUTTER ARE FOR TOP BACK OF CURB, UNLESS OTHERWISE INDICATED. ELEVATIONS PROVIDED AT CURB LAY DOWNS ARE FOR THE "PROJECTED" TOP BACK OF CURB, AS THOUGH THE SPECIFIED CURB WAS BEING INSTALLED THROUGH THE LAY DOWN. THIS ALLOWS THE CONTRACTOR TO SET HIS CURB STRONG LINE OR FORMS BASED ON THE ELEVATIONS SHOWN ON THE PLANS, AND THEN CUT OUT THE EXTRA CONCRETE FOR THE LAY DOWN.
- ALL MATERIAL FURNISHED ON OR FOR THIS PROJECT SHALL MEET THE MINIMUM REQUIREMENTS OF THE APPROVING AGENCIES OR AS SET FORTH HEREIN, WHICHEVER IS MORE RESTRICTIVE.
- IF MORE THAN ONE ACRE WILL BE DISTURBED DURING CONSTRUCTION THE CONTRACTOR IS RESPONSIBLE TO NOTIFY DEQ OR SUBMIT STORM WATER POLLUTION PREVENTION PERMIT (SWPPP) TO DEQ PRIOR TO CONSTRUCTION.

CONSTRUCTION STAKING

- THE OWNER WILL PROVIDE CONSTRUCTION STAKING ONE TIME. ADDITIONAL STAKING WILL BE THE RESPONSIBILITY OF THE CONTRACTOR FOR SCHEDULING AND PAYMENT.
- CONTRACTOR IS RESPONSIBLE TO COORDINATE AND REQUEST STAKING AT LEAST FIVE DAYS IN ADVANCE, UNLESS OTHERWISE AGREED UPON IN WRITING BY ENGINEER.
- STAKING WILL BE PROVIDED AS INDICATED IN THE CONTRACT DOCUMENTS, OR AS REQUESTED BY CONTRACTOR.
- CUT SHEETS WILL BE PROVIDED TO THE CONTRACTOR WITH ELEVATION FROM HUB TO FINISHED GRADE, UNLESS NOTED OTHERWISE. CUT SHEETS FOR PIPE INSTALLATION PROVIDE THE ELEVATION FROM THE HUB TO THE INVERT OF THE PIPE, UNLESS NOTED OTHERWISE.
- ENGINEER DOES NOT CONSIDER STAKING TO BE COMPLETE AND READY FOR USE UNTIL CUT SHEETS HAVE BEEN DELIVERED TO CONTRACTOR. CONTRACTOR'S USES OF CONSTRUCTION STAKING PRIOR TO RECEIPT OF CUT SHEETS IS AT CONTRACTOR'S RISK. ANY WORK INCORRECTLY INSTALLED DUE TO CONTRACTOR'S USE OF PRELIMINARY CONSTRUCTION STAKING WILL BE REMOVED AND REPLACED AT CONTRACTOR'S EXPENSE.

GRADING NOTES

- ALL RAMPS SHALL BE SLOPED @ 12:1 MAX (8.33%) WITH A CROSS SLOPE LESS THAN 2%.
- SQUARE CUT ALL ASPHALT.
- CONTRACTOR SHALL PROTECT ALL ADJACENT IMPROVEMENTS (BUILDINGS, ROADWAYS, FENCES, DITCHES, PARKING LOTS, UTILITIES, SIDEWALKS, CURBS, GUTTER, PARK RECREATION IMPROVEMENTS, TREES, ETC.) FROM DAMAGE AND EROSION. ALL DISTURBED AREAS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION.
- COMPACT SUBGRADE AND GRAVEL CUSHION TO 95% PROCTOR DENSITY OR PER GEOTECHNICAL ENGINEERING REPORT, WHICHEVER PROVIDES A GREATER LEVEL OF COMPACTION.

ABBREVIATIONS

BC	BACK OF CURB	MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
BP	BEGINNING POINT	MWC	MOUNTAIN WATER COMPANY
BSW	BACK OF SIDEWALK	NWE	NORTHWESTERN ENERGY
CBU	CLUSTER BOX UNIT	(P)	PROPOSED
CMP	CORRUGATED METAL PIPE	PRC	POINT OF REVERSE CURVATURE
ELEV	ELEVATION	PC	POINT OF CURVATURE
EP	ENDING POINT	PT	POINT OF TANGENT
(E)	EXISTING	PVI	POINT OF VERTICAL INTERSECTION
FFEL	FINISHED FLOOR ELEVATION	R	RADIUS
FG	FINISHED GRADE	ROW	RIGHT OF WAY
FL	FLOWLINE	SF	SQUARE FOOT
HP	HIGH POINT	SIM	SIMILAR
I.E.	INVERT ELEVATION	STA	STATION
INVT	INVERT	STD	CITY OF MISSOULA STANDARD DRAWING
JUT	JOINT UTILITY TRENCH	SW	SIDEWALK
LD	LAYDOWN	TBC	TOP BACK OF CURB
LF	LINEAR FOOT	TOA	TOP OF ASPHALT
MAX	MAXIMUM	TOC	TOP OF CONCRETE
MIN	MINIMUM	TYP	TYPICAL
ME	MATCH EXISTING	U.N.O.	UNLESS NOTED OTHERWISE
M.E.P.	MECHANICAL, ELECTRICAL, & PLUMBING		
MPOC	MID POINT OF CURVE		



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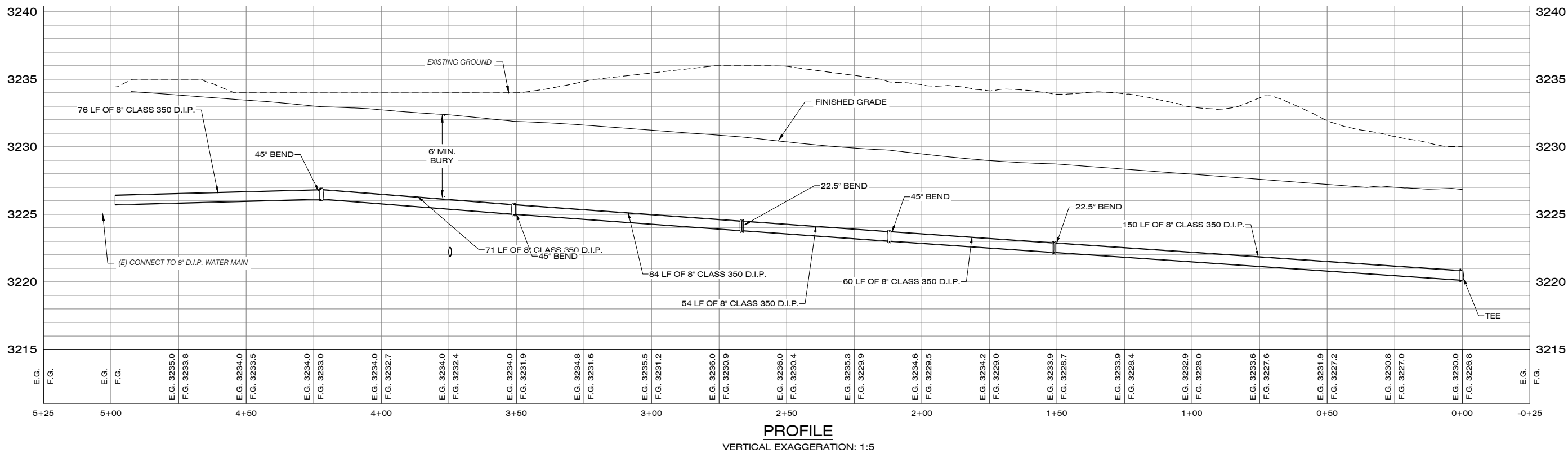
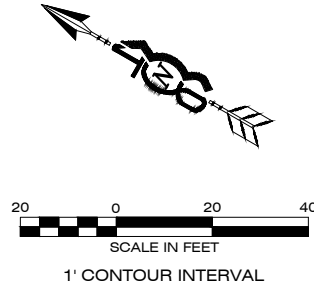
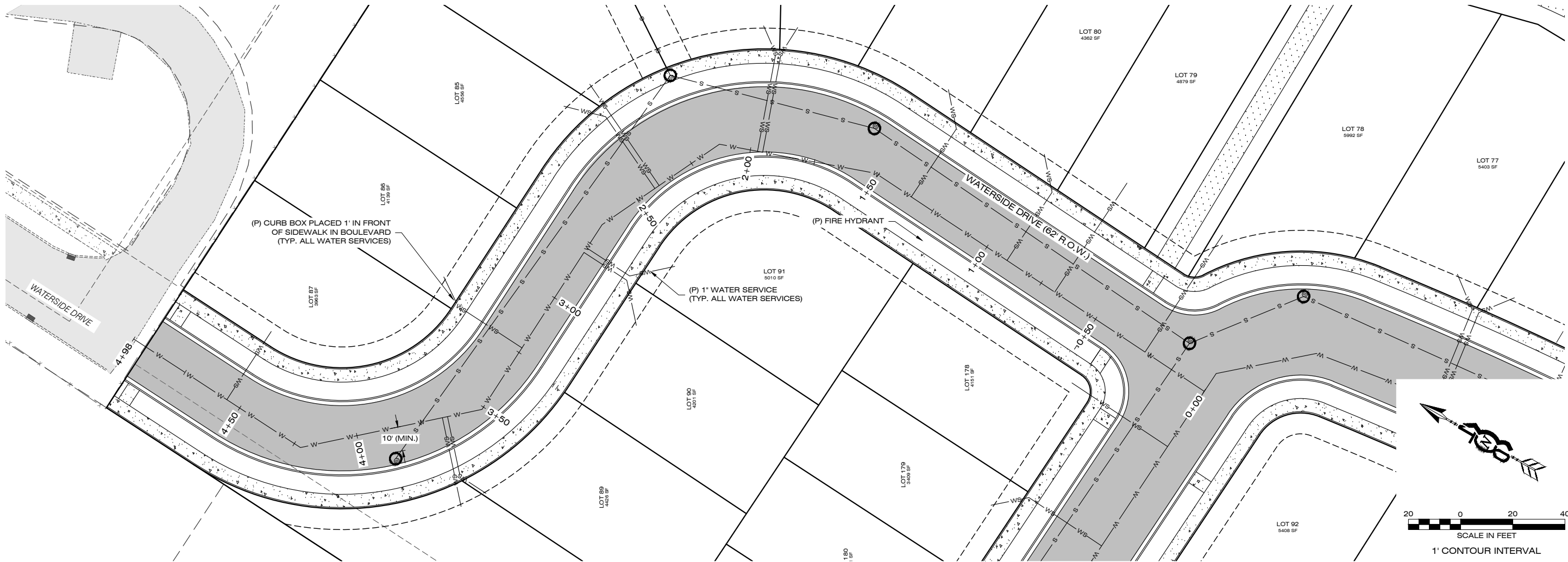
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REVISIONS	DATE

LOCATION:
PARCEL TRACTS 1-5 OF COS 8629
SEC. 24, T.13N, R.19W, P.M.M.
MISSOULA COUNTY, MONTANA
PREPARED FOR:
DENOVA HOMES

PROJECT NAME:
ASPIRE SUBDIVISION
WATER MAIN CONSTRUCTION PLANS
SHEET TITLE:
WATER MAIN PLAN & PROFILE

406 PROJECT NO.
21-001
SHEET:
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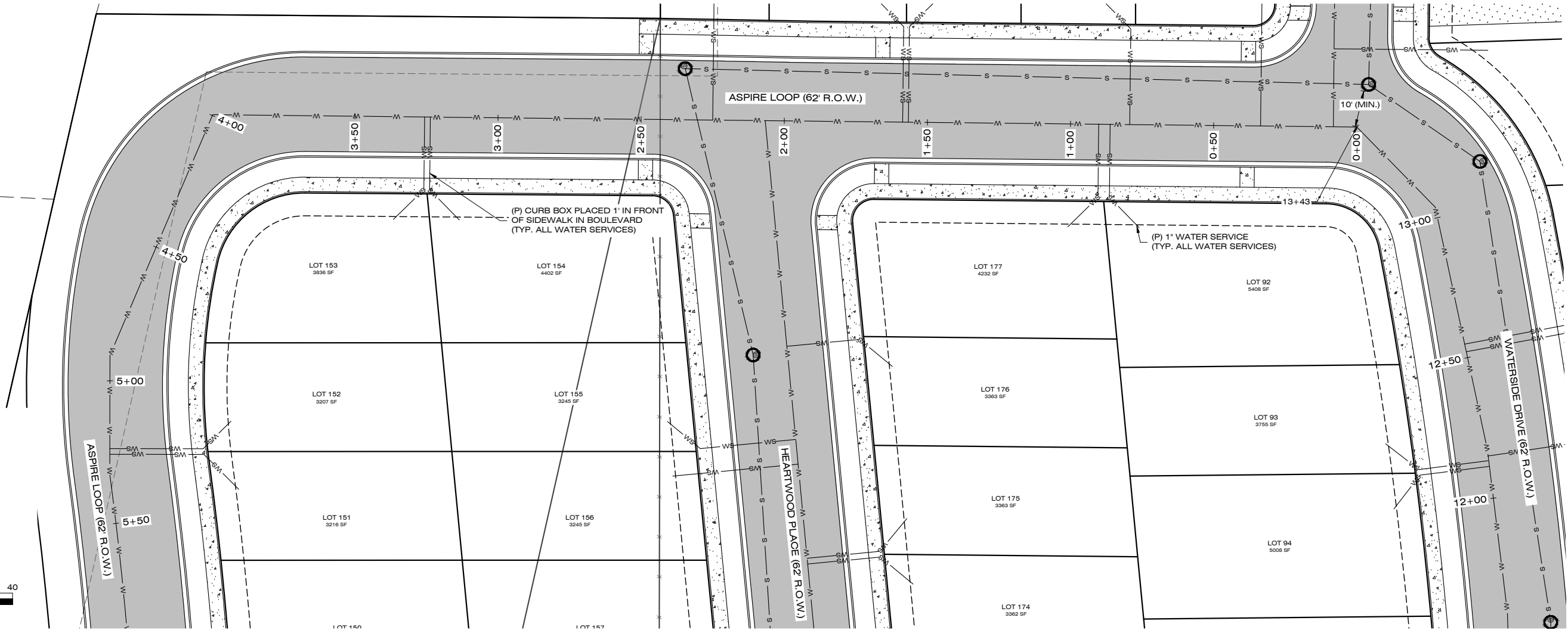
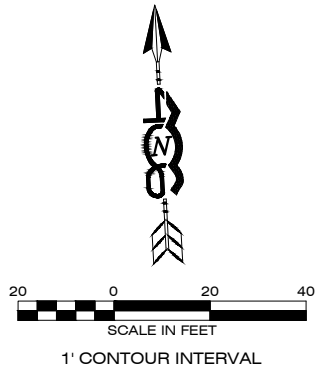
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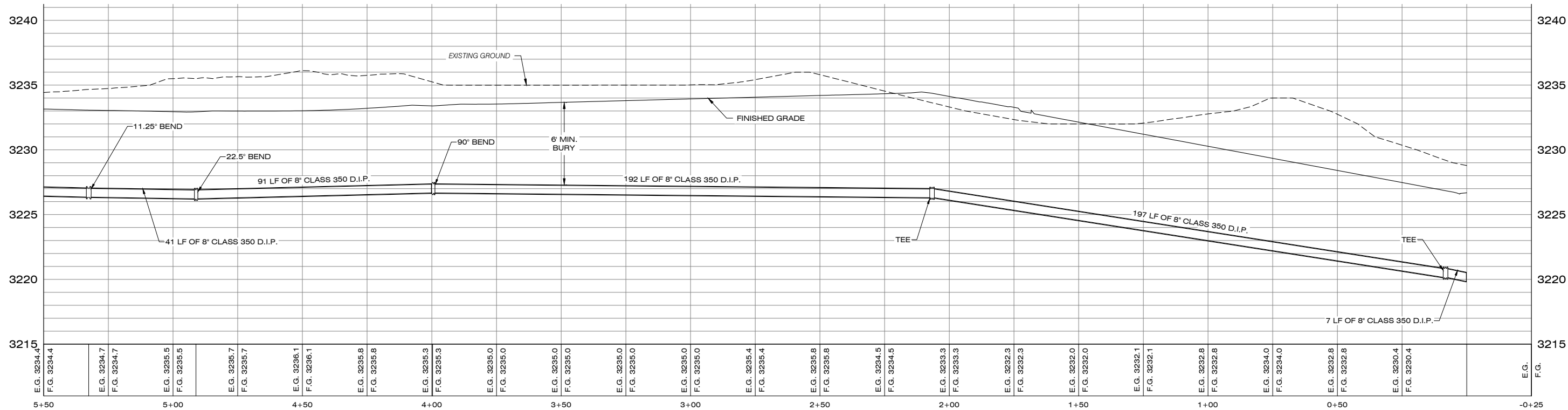
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21-001

SHEET:
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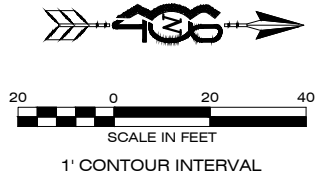
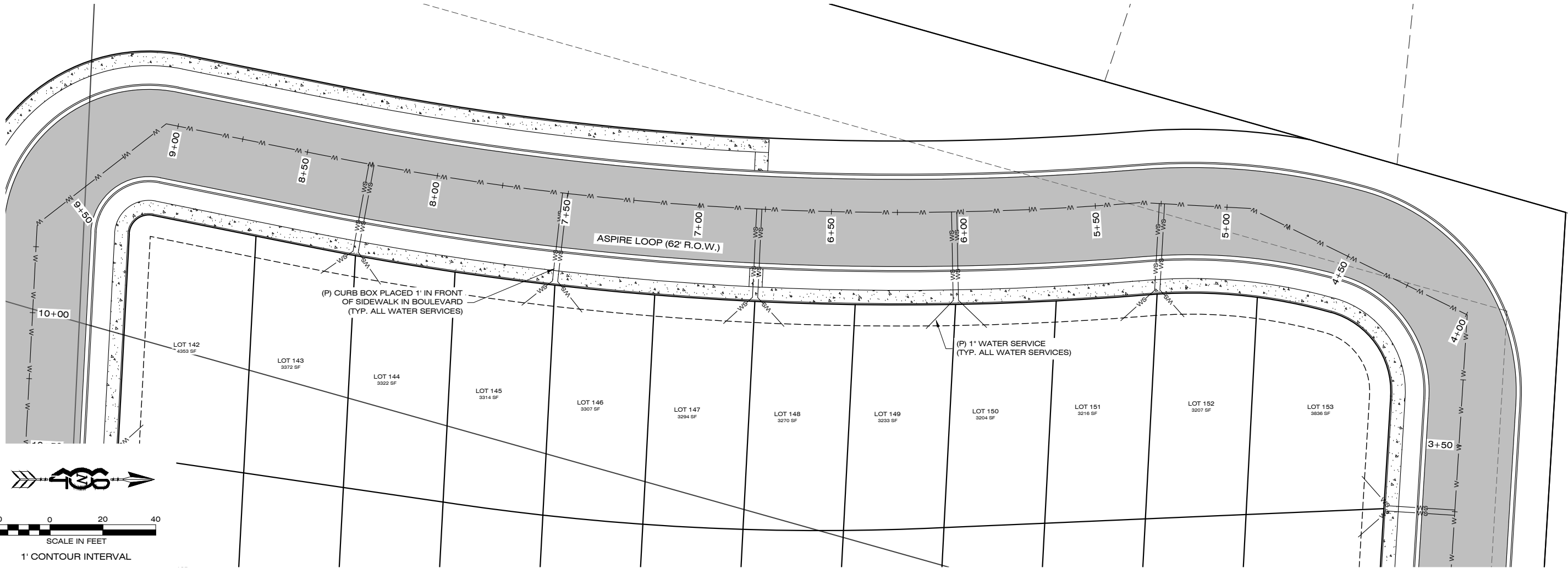
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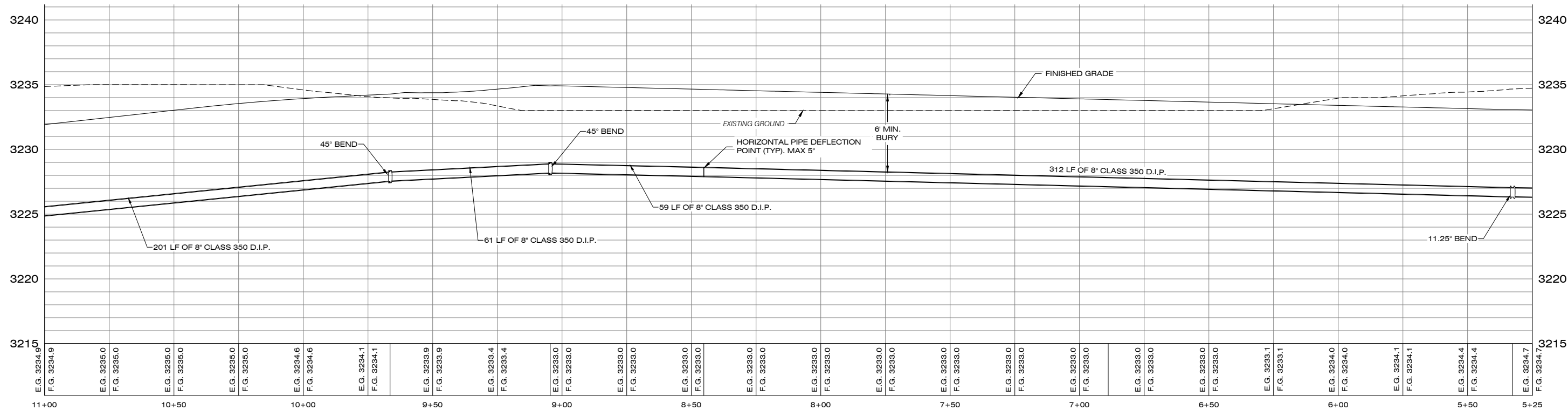
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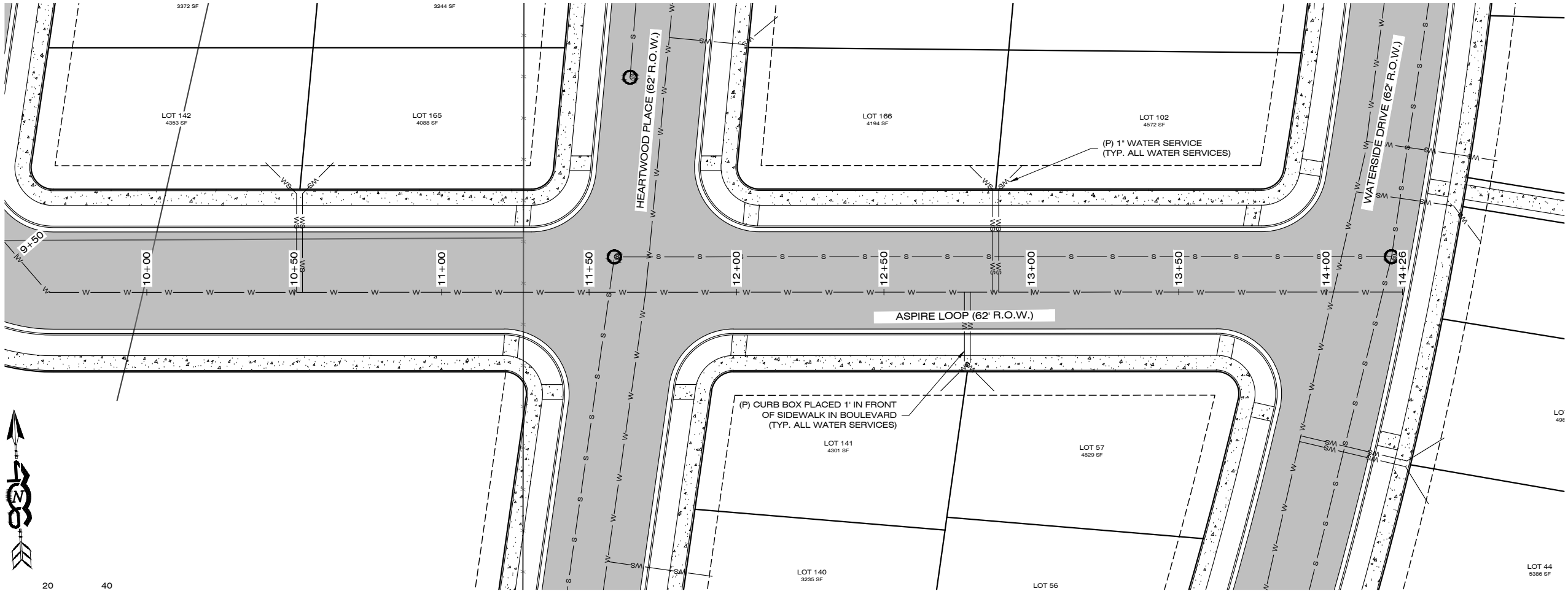
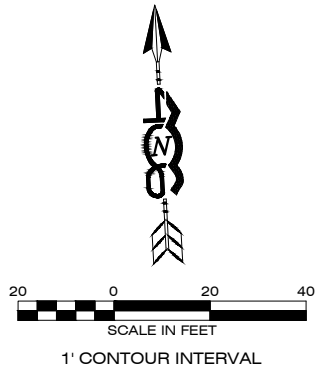
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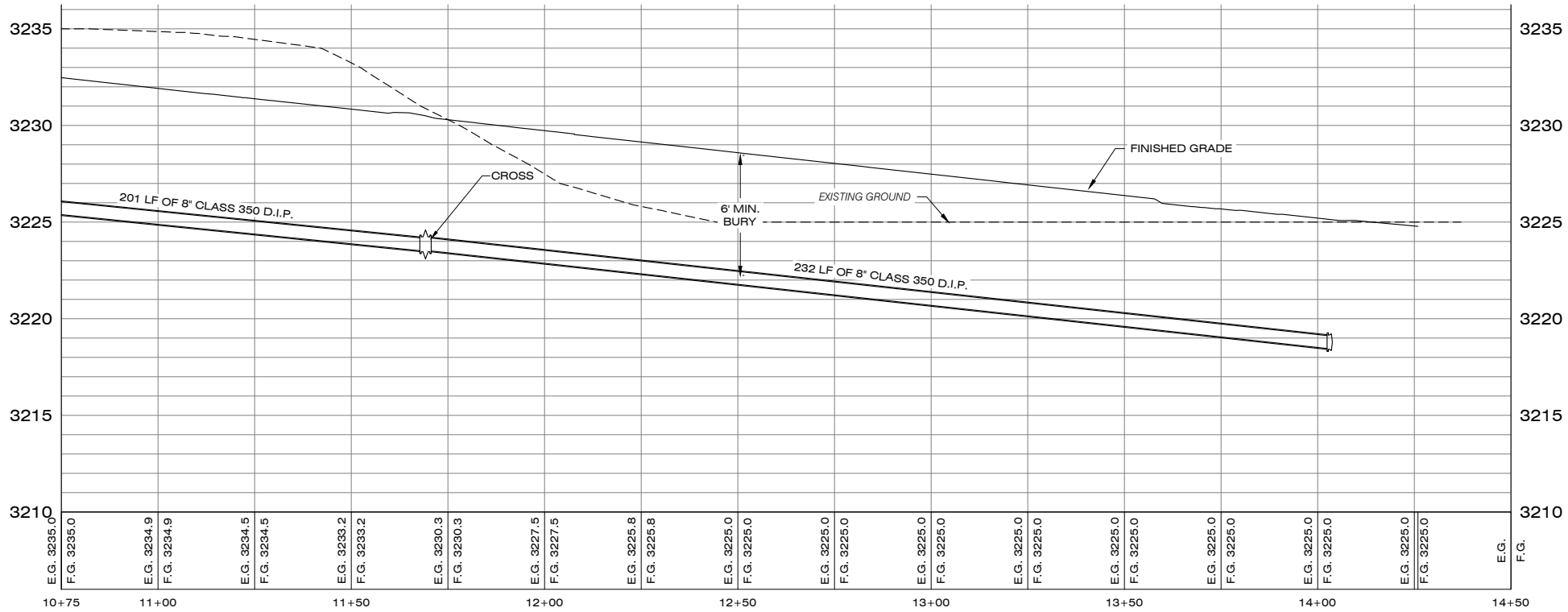
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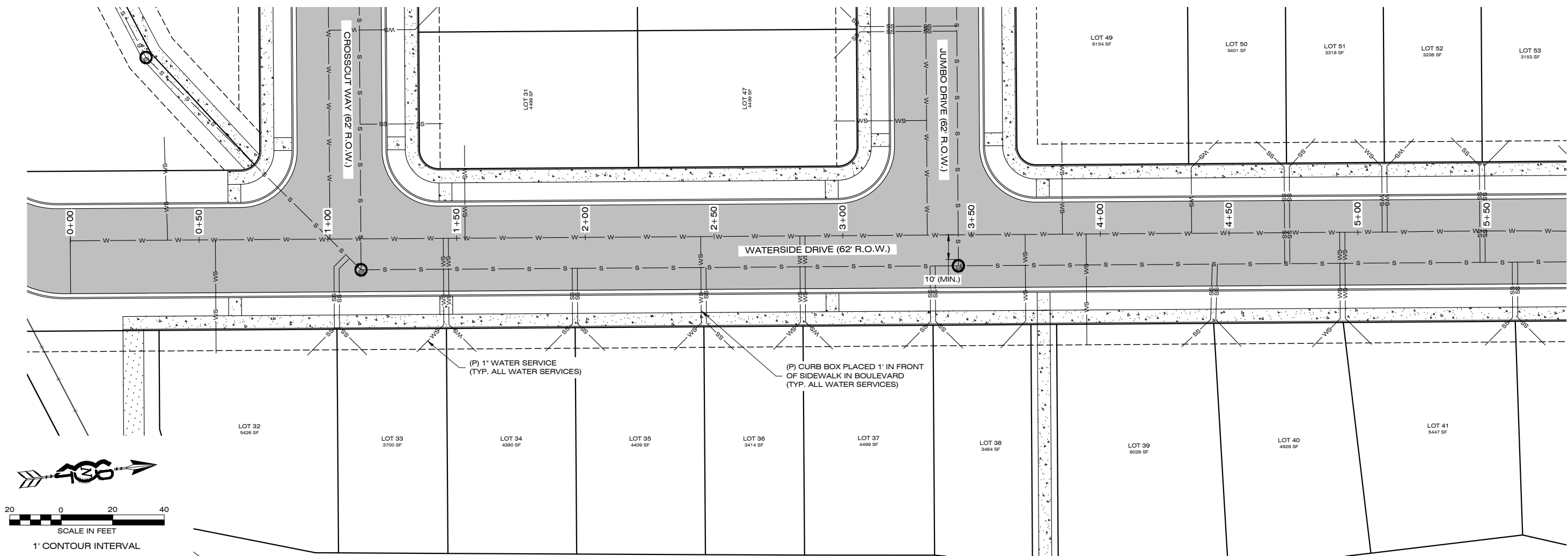
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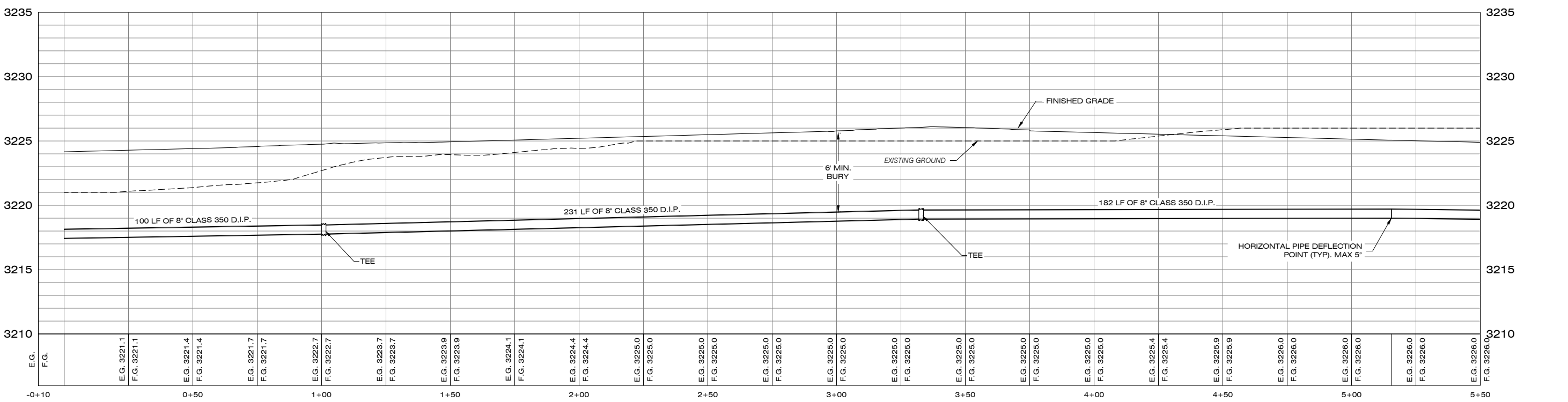
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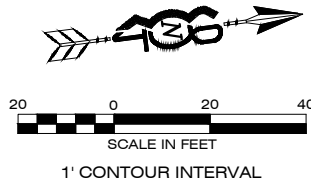
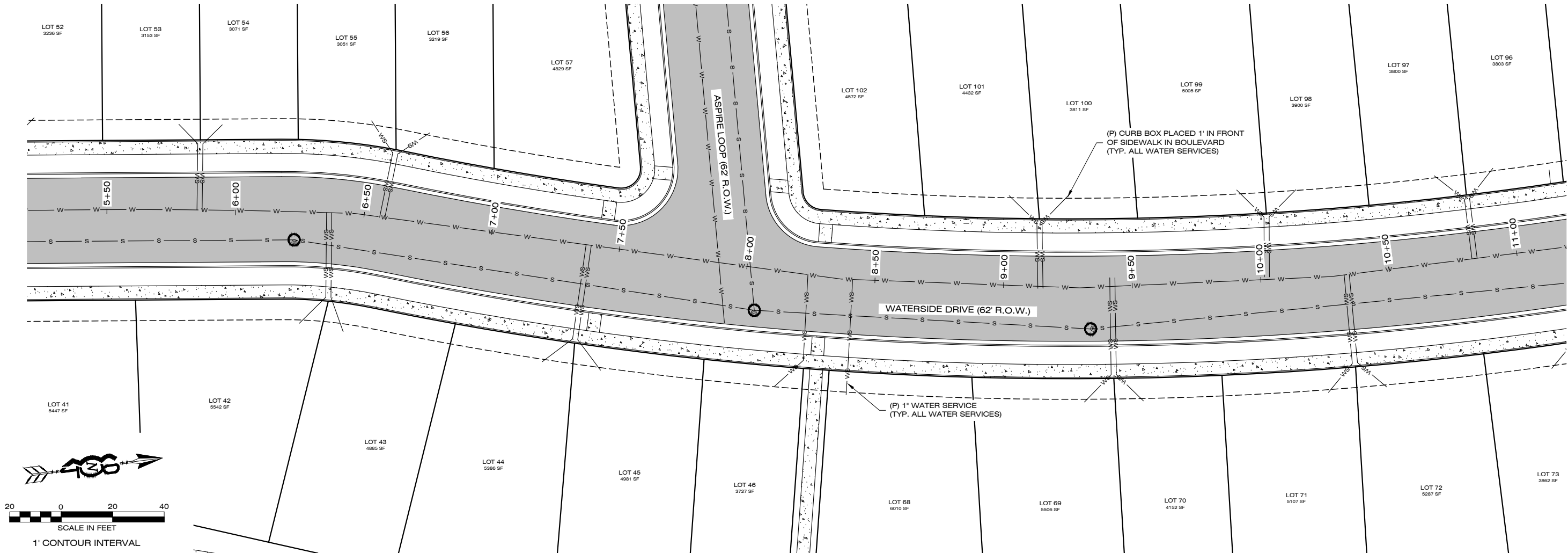
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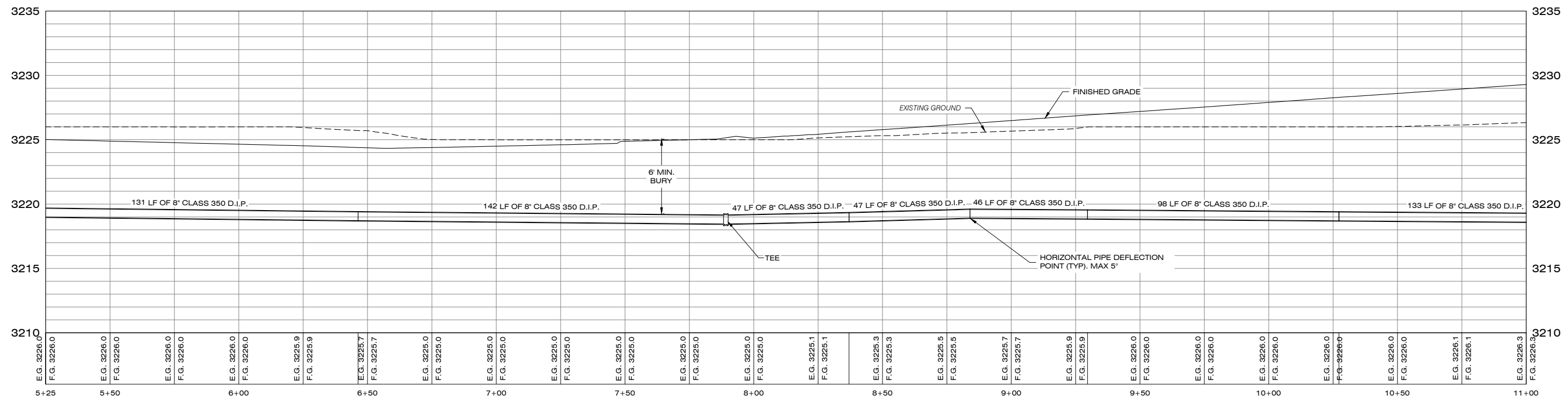
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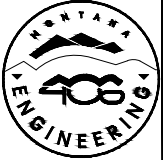
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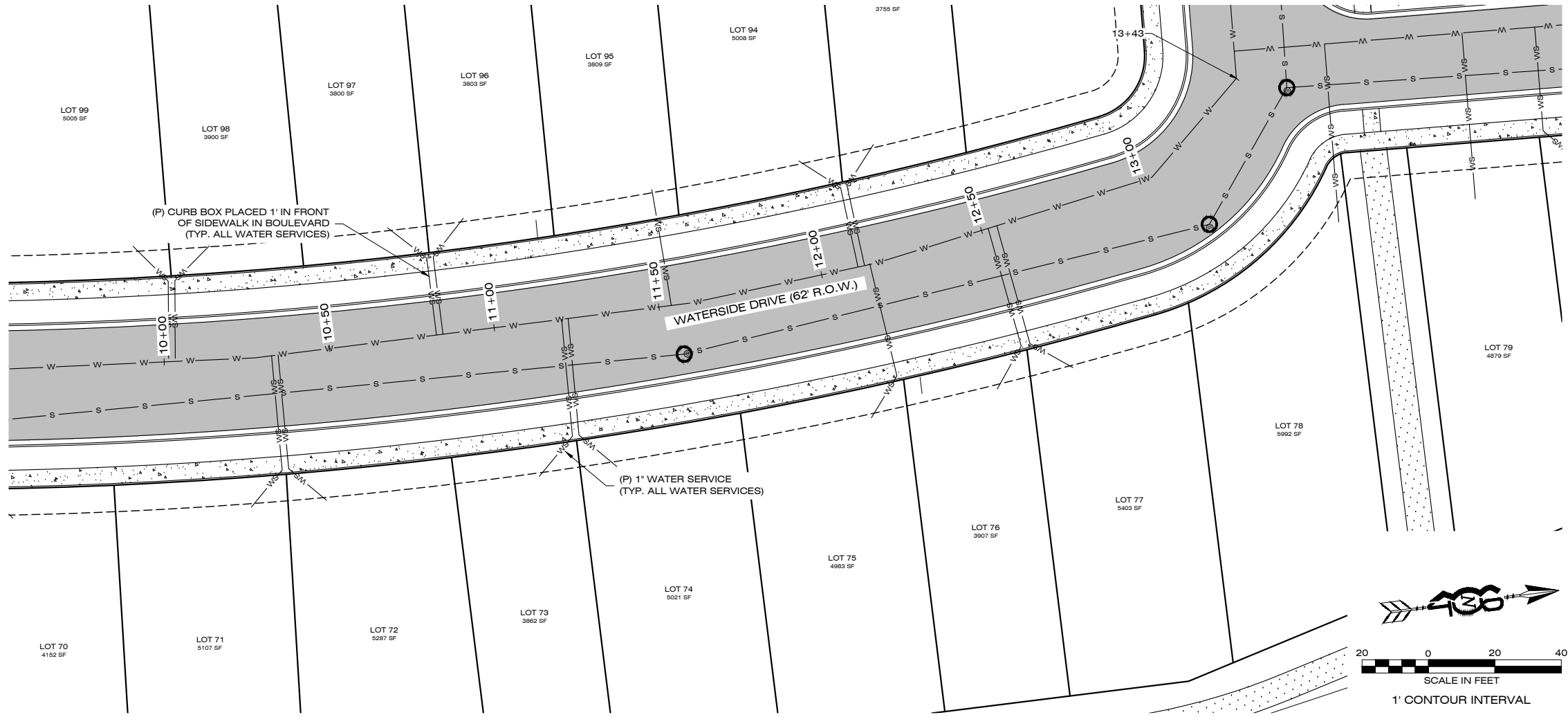
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MISSOULA COUNTY, MONTANA
PREPARED FOR:
DENOVA HOMES

PROJECT NAME
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WATER MAIN CONSTRUCTION PLANS
SHEET TITLE:
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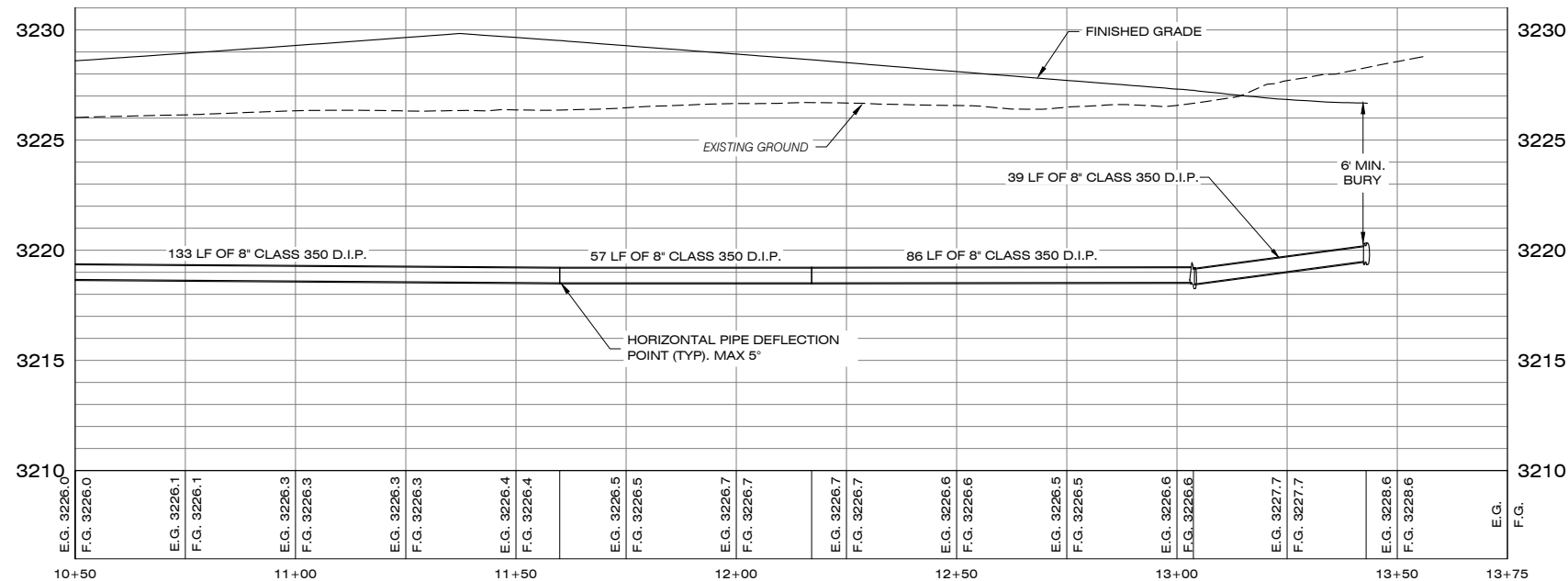
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21-001
SHEET:
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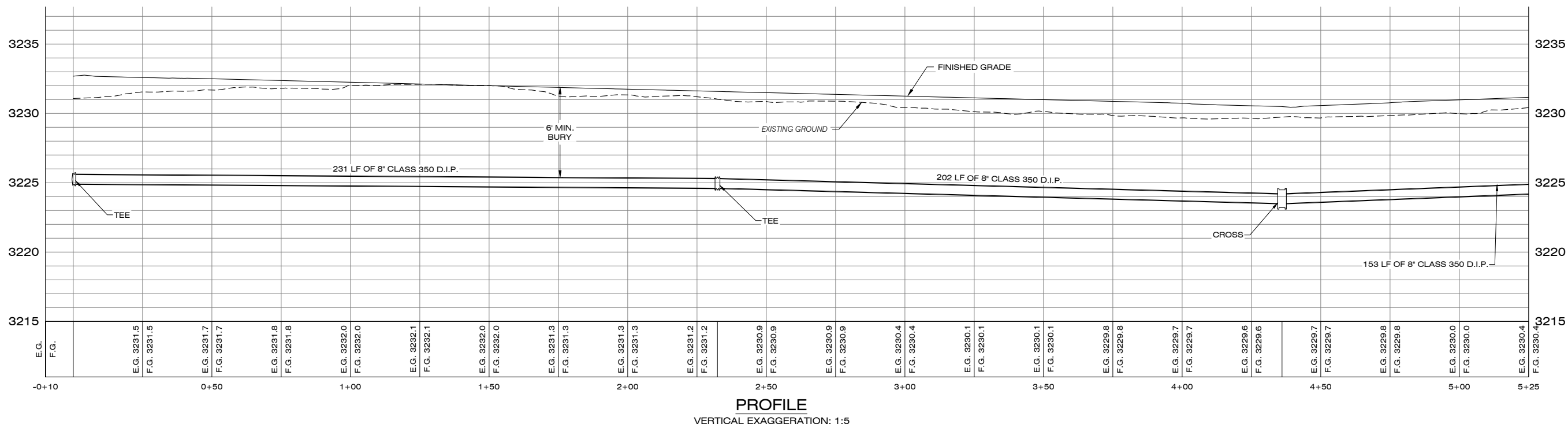
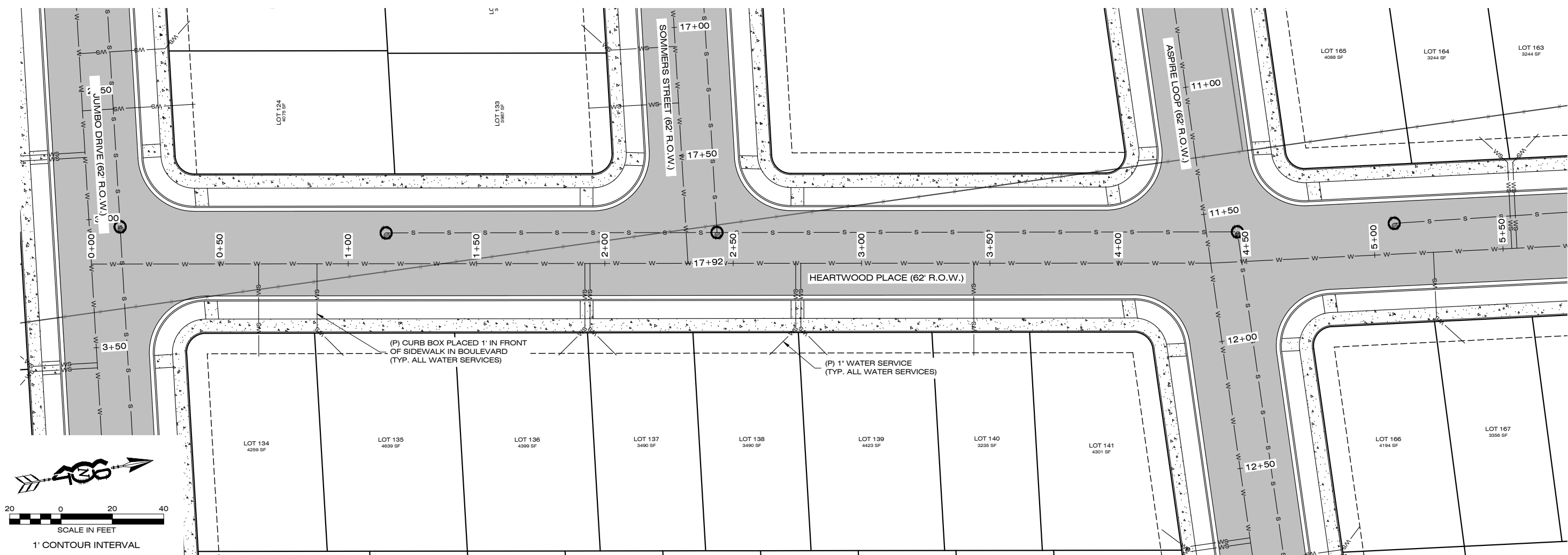
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LOCATION:
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SEC. 24, T. 13N., R. 19W., P. M.M.
MISSOULA COUNTY, MONTANA
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DENOVA HOMES

PROJECT NAME
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WATER MAIN CONSTRUCTION PLANS
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WATER MAIN PLAN & PROFILE

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21-001

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PREPARED FOR:
DENOVA HOMES

PROJECT NAME:
**ASPIRE SUBDIVISION
WATER MAIN CONSTRUCTION PLANS**

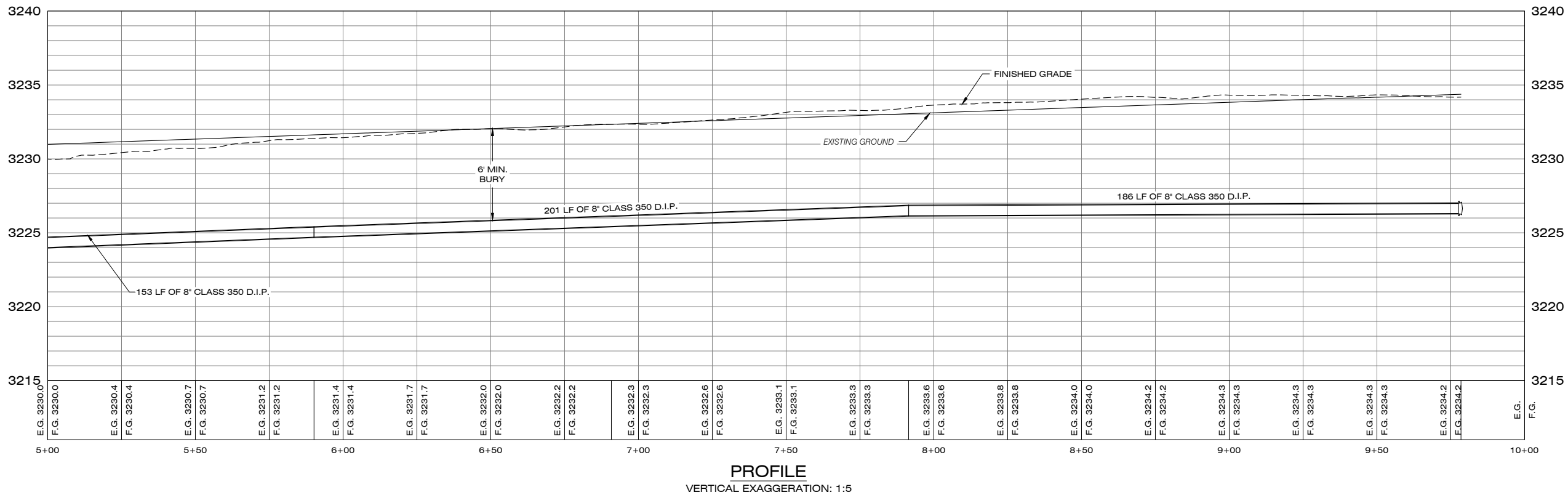
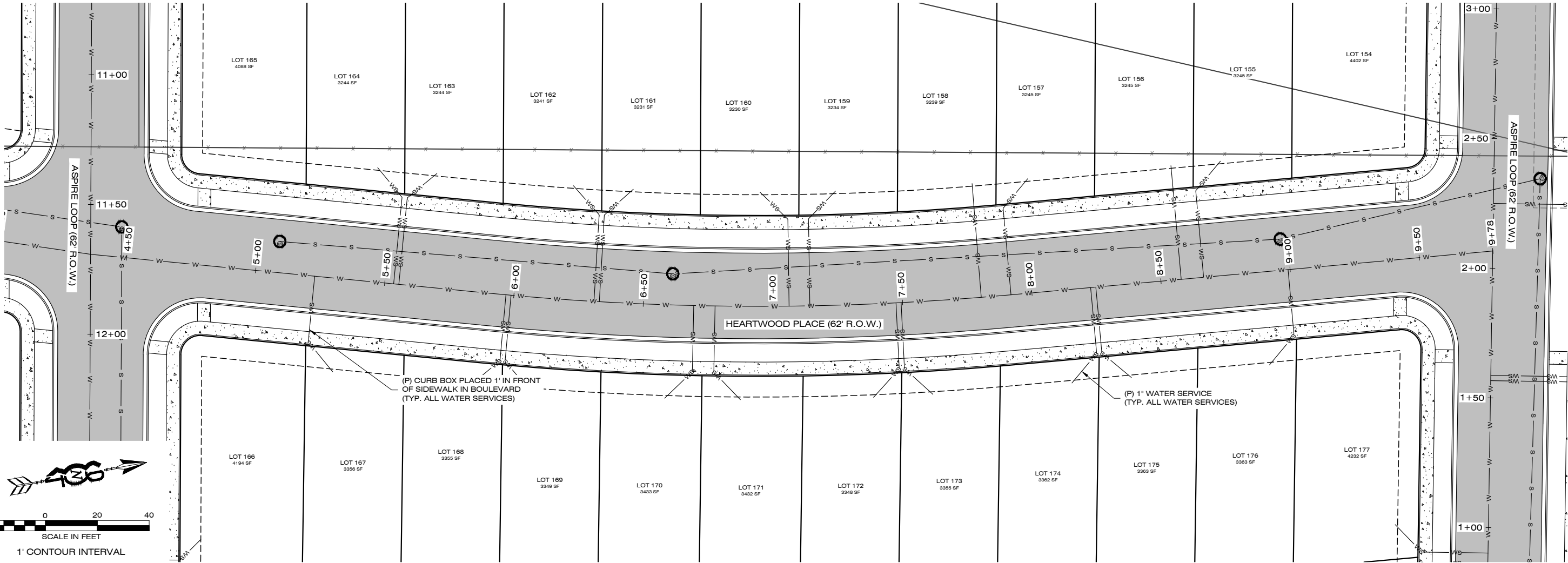
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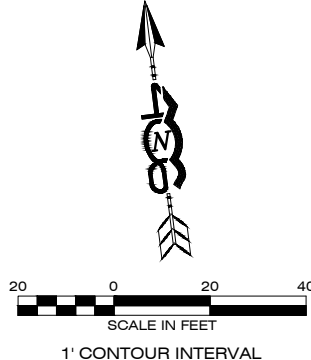
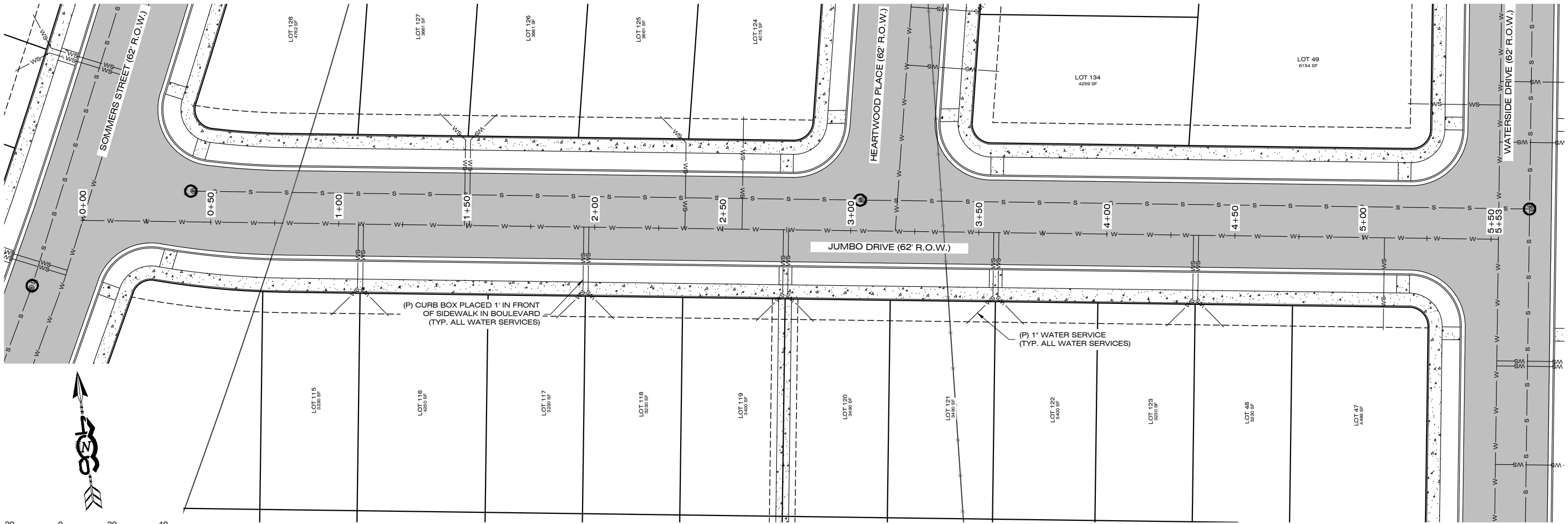
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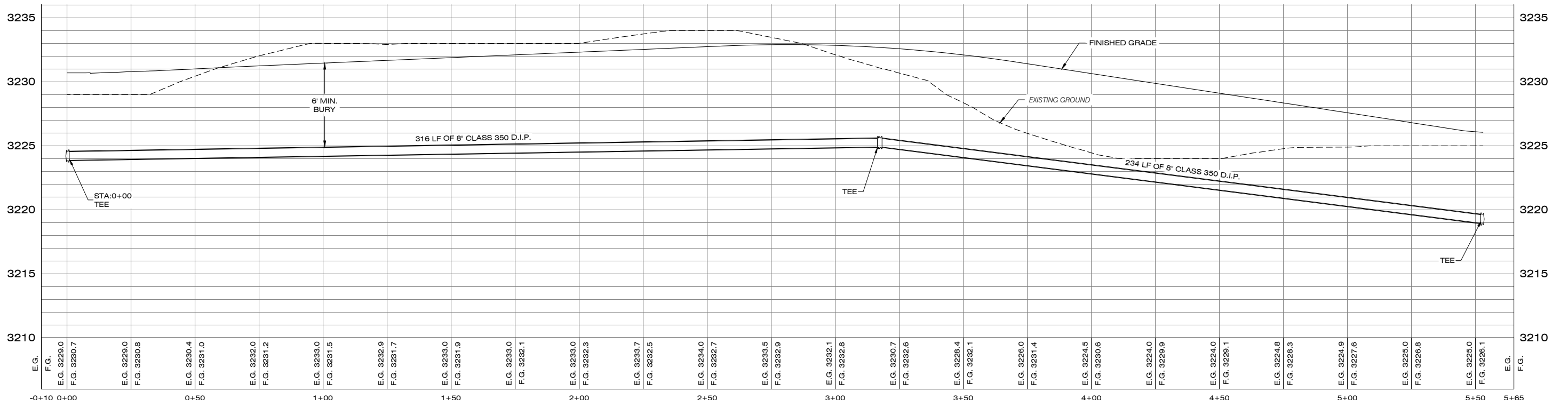
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PLAN



PROFILE

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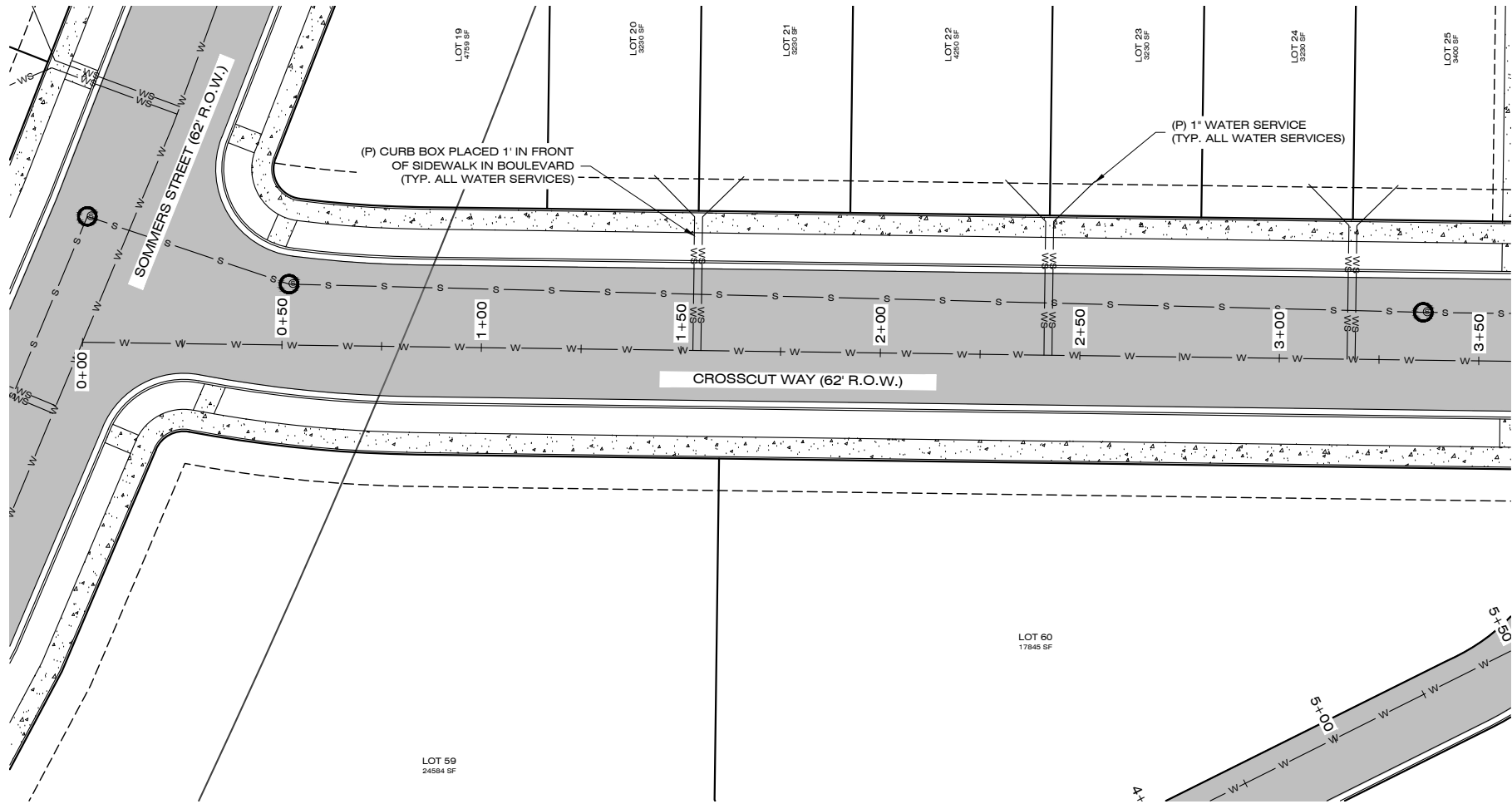
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LOCATION:
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SEC. 24, T. 13N., R. 19W., P. M.M.
MISSOULA COUNTY, MONTANA
PREPARED FOR:
DENOVA HOMES

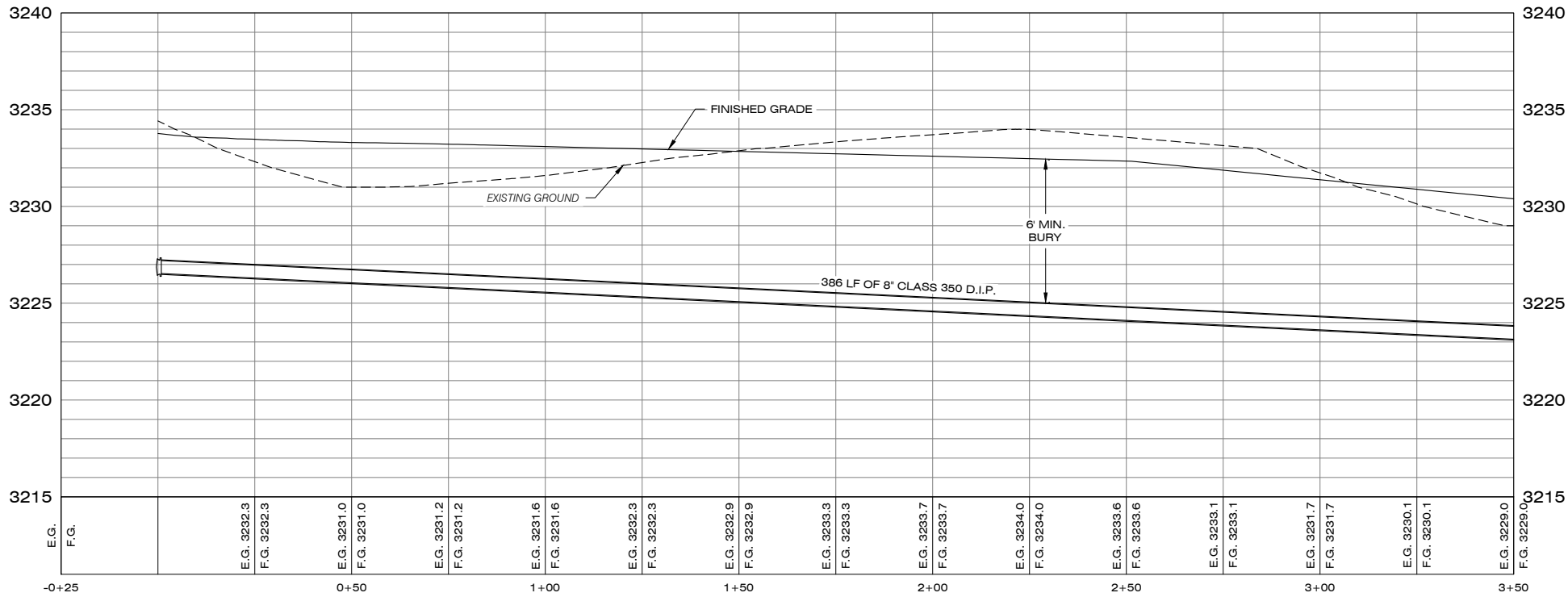
PROJECT NAME
ASPIRE SUBDIVISION
WATER MAIN CONSTRUCTION PLANS
SHEET TITLE:
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406 PROJECT NO.
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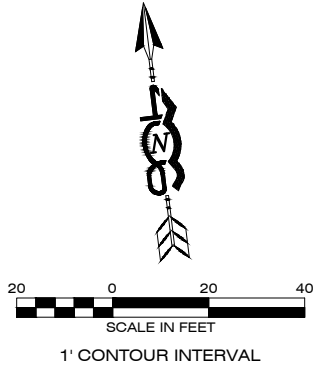
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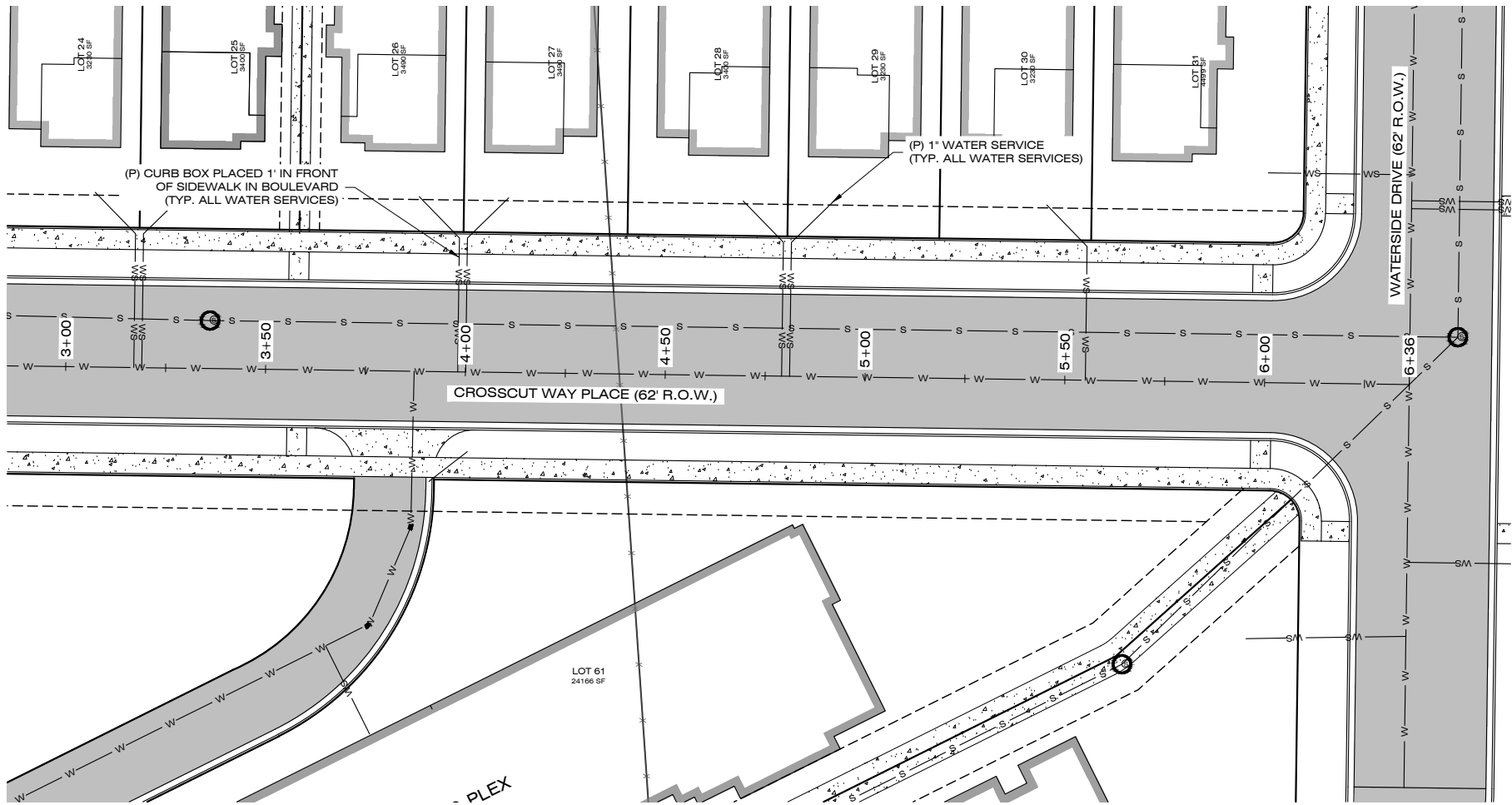
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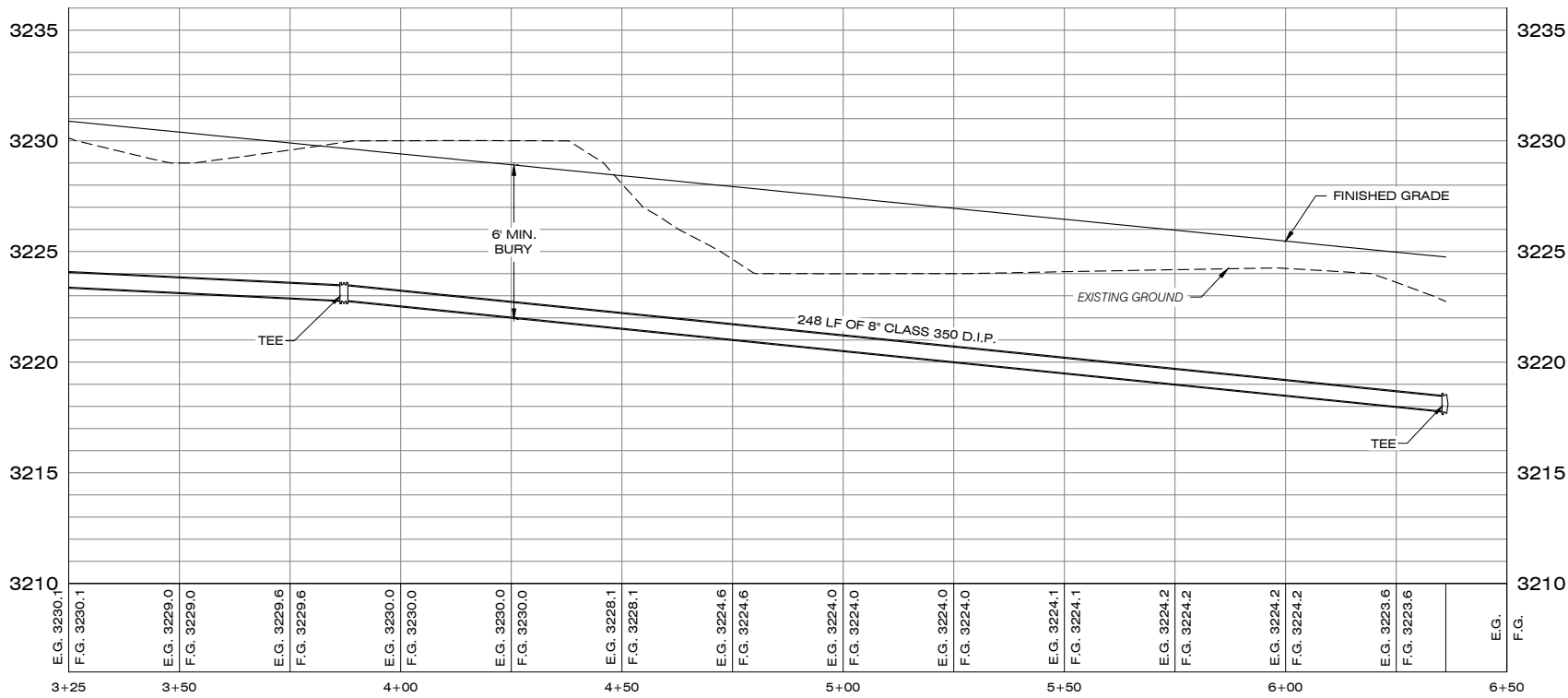
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PROJECT NAME ASPIRE SUBDIVISION WATER MAIN CONSTRUCTION PLANS SHEET TITLE: WATER MAIN PLAN & PROFILE
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406 PROJECT NO. 21-001

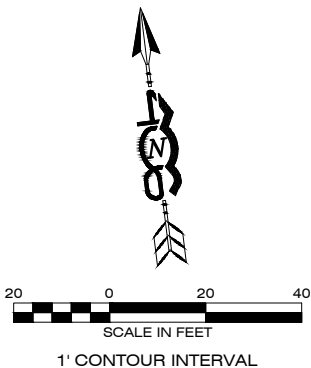


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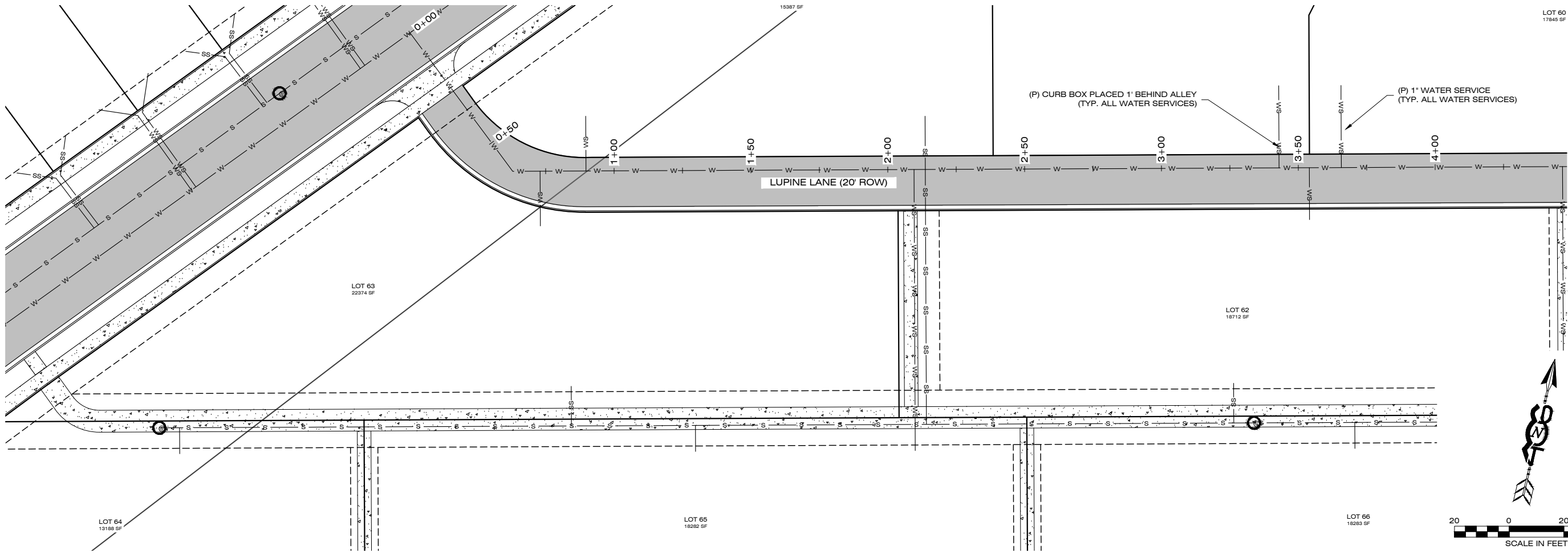
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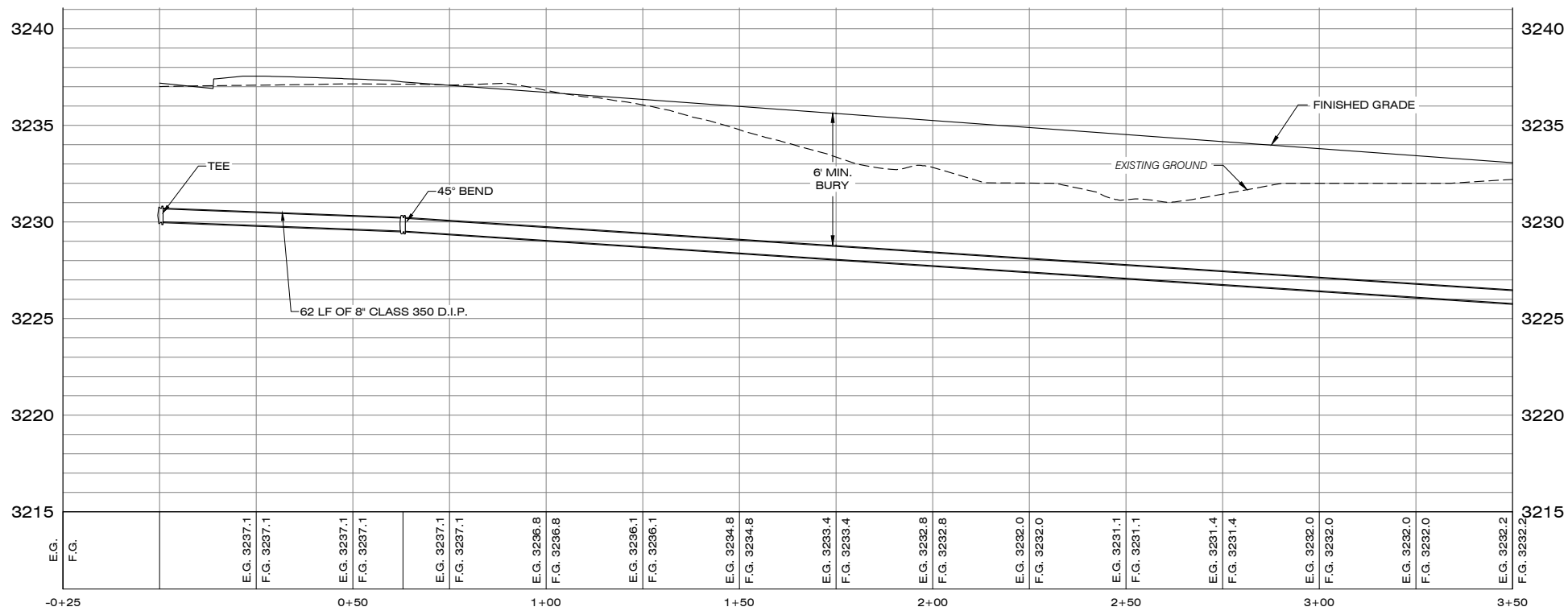
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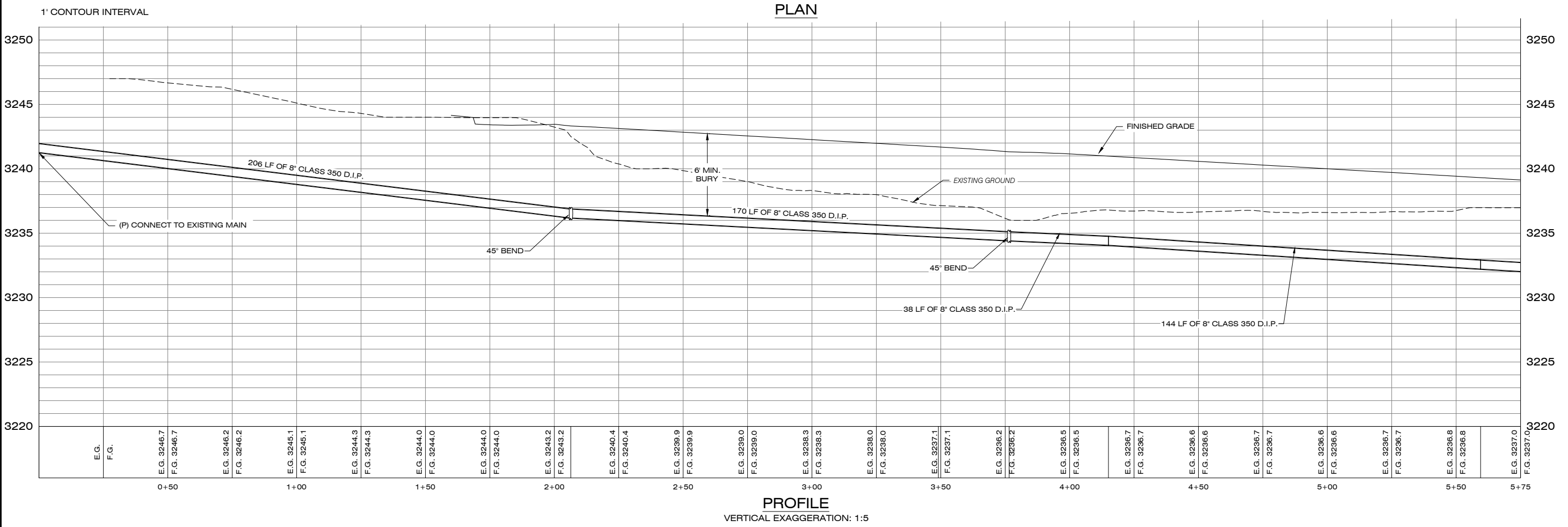
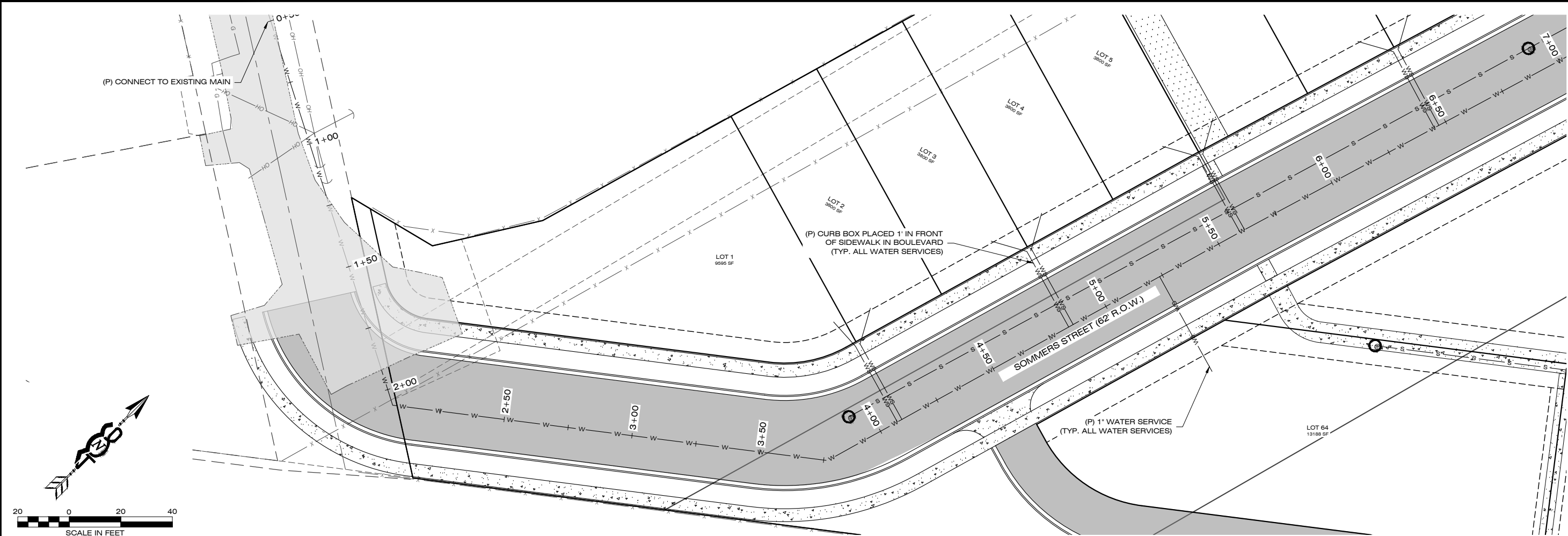
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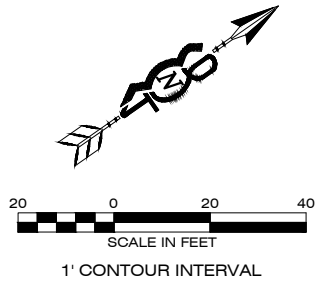
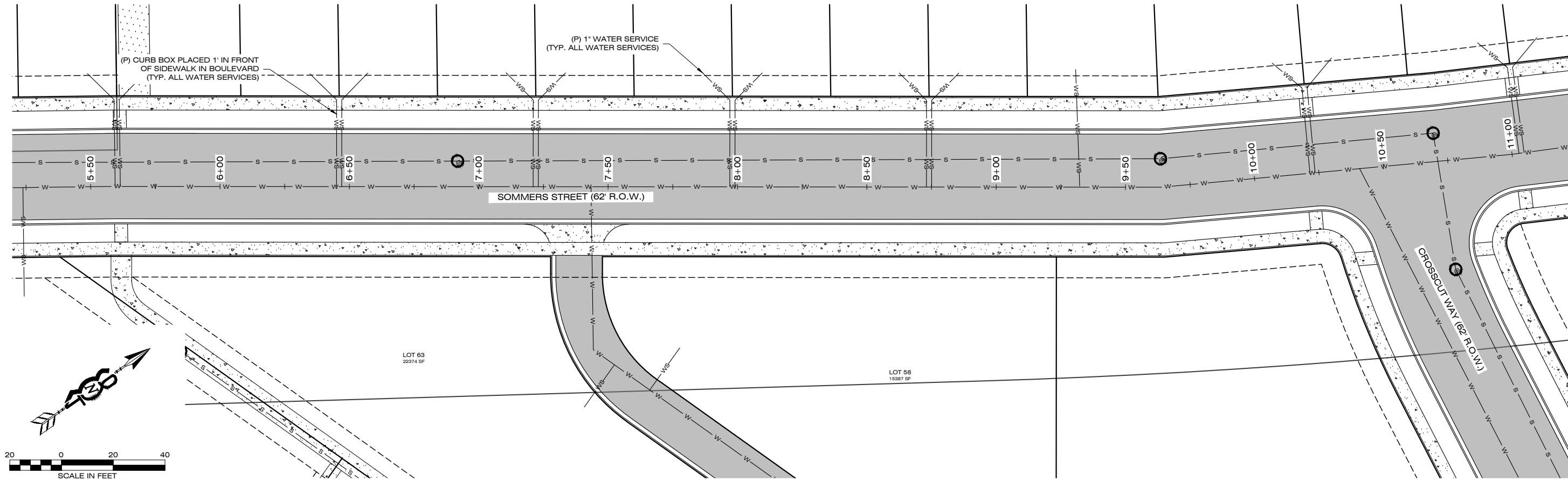
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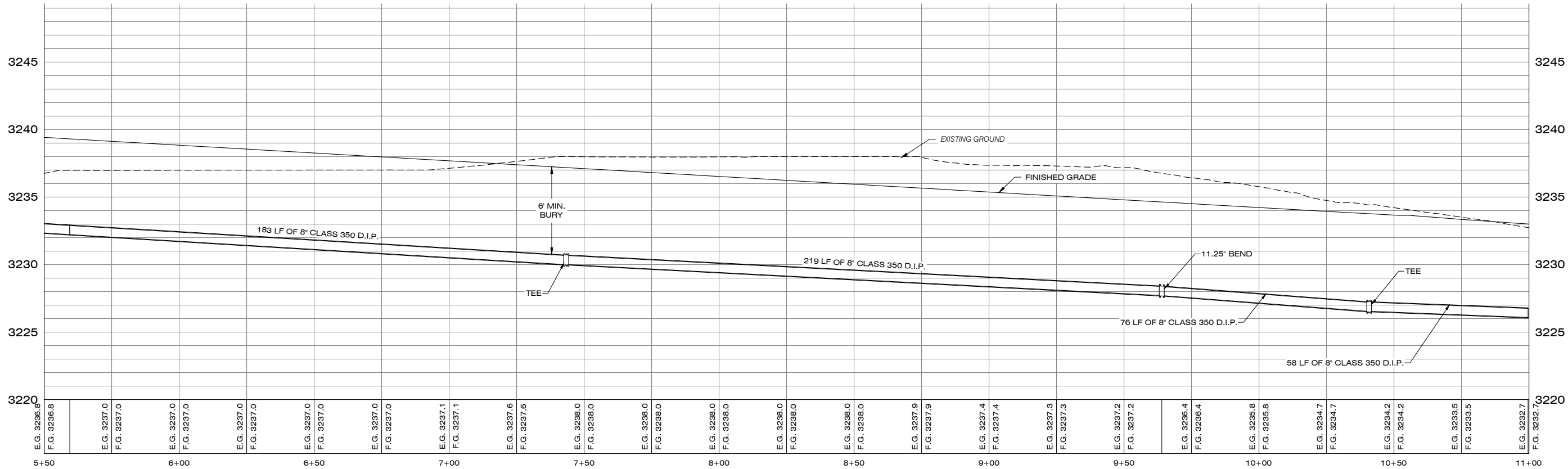
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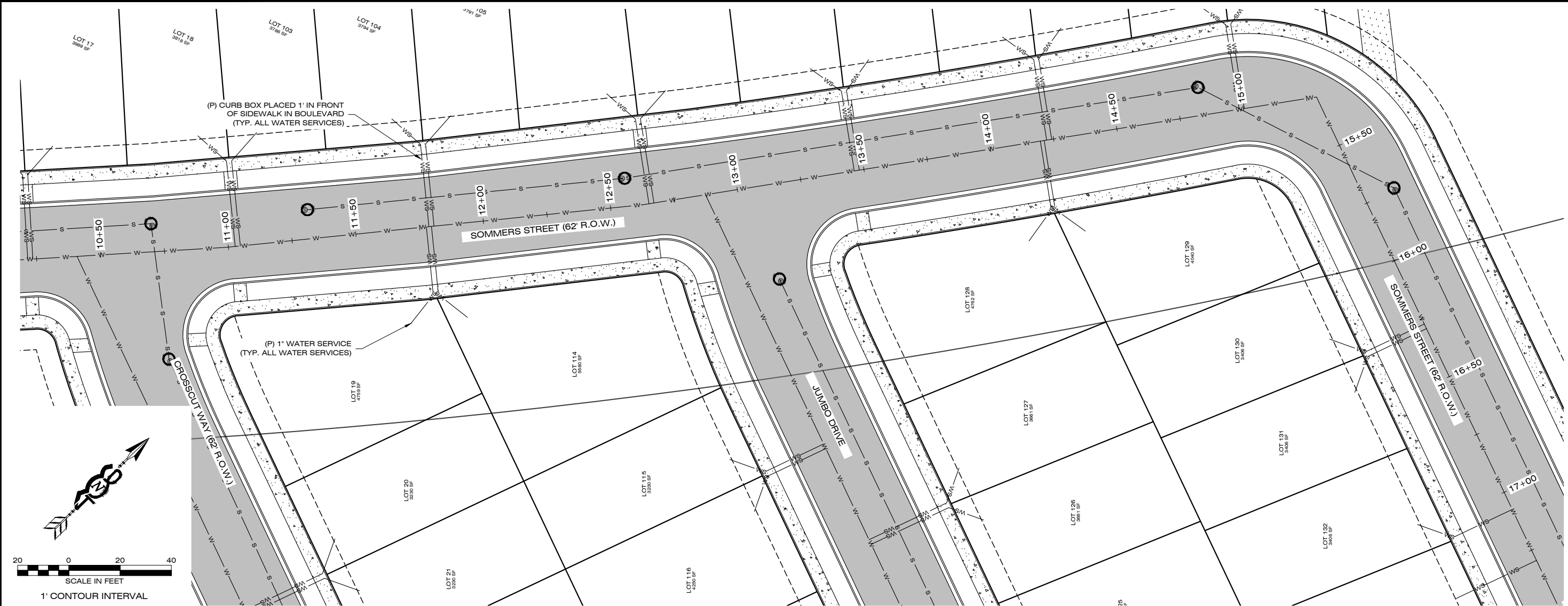
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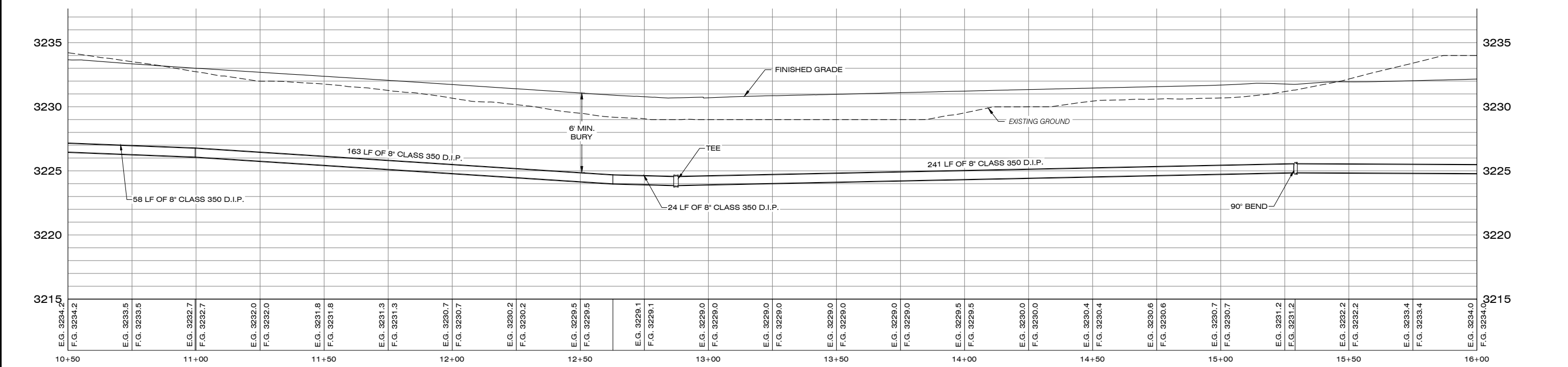
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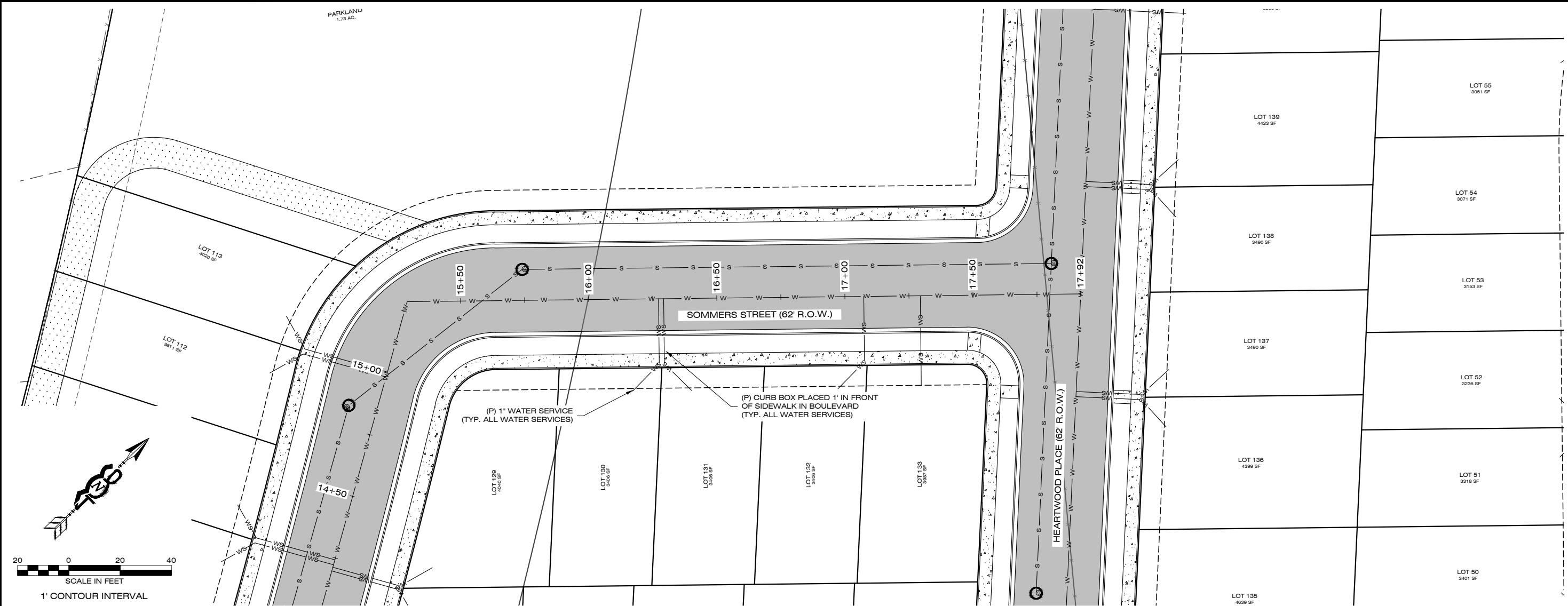
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DATE: APRIL 2023

REVISIONS	DATE

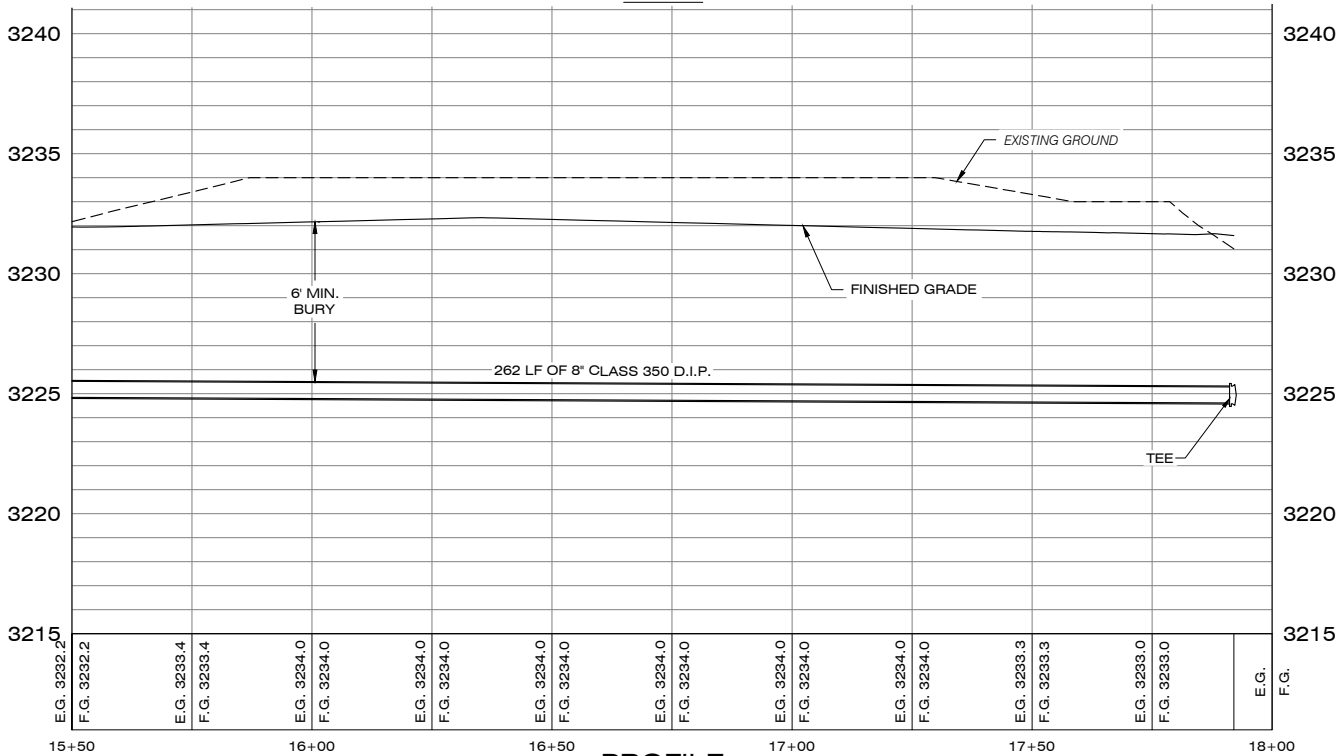
LOCATION:
PARCEL TRACTS 1-5 OF COS 6629
SEC. 24, T.13N, R.19W, P.M.M.
MISSOULA COUNTY, MONTANA
PREPARED FOR:
DENOVA HOMES

PROJECT NAME:
ASPIRE SUBDIVISION
WATER MAIN CONSTRUCTION PLANS
SHEET TITLE:
WATER MAIN PLAN & PROFILE

PROJECT NO.
21-001

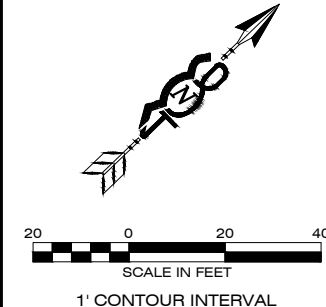


PLAN



PROFILE

VERTICAL EXAGGERATION: 1:5





406 ENGINEERING
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REVISIONS	DATE

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SHEET:
20 OF 20

DWG LOCATION: C:\DRG\B\AN\AN\CON\6629\406\ASPIRE\ENGINEERING - DOCUMENT\DRAW WORK\1 PROJECTS\2021 PROJECTS\21-001 DENOVA HOMES\9 DRAWINGS\WTR\21-001.DWG
PLOT DATE: 4/5/2023 3:41 PM BY: SEAN AMUNDSON, SEANAMUNDSON