

RIVERBEND CROSSING FILING NO. 1

UTILITY CONSTRUCTION DRAWINGS

EL PASO COUNTY, COLORADO

GENERAL NOTES FOR WASTEWATER COLLECTION SYSTEM CONSTRUCTION:

GENERAL NOTES FOR WATER DISTRIBUTION SYSTEM CONSTRUCTION:

GENERAL

- ALL WORK SHALL BE IN ACCORDANCE WITH THE SECURITY SANITATION DISTRICT (SSD) SEWER USE REGULATIONS (SUR), THE SECURITY SANITATION DISTRICT DESIGN CRITERIA AND STANDARD SPECIFICATIONS AND THE SSD POLICIES, PROCEDURES AND AGREEMENTS PERTAINING TO THIS PROJECT.
 - THE CONTRACTOR SHALL COORDINATE AND PROVIDE FOR DETERMINING THE LOCATION AND PROVIDING FOR PROTECTION OF EXISTING UTILITIES AND DRAINAGE STRUCTURES. THE UTILITY NOTIFICATION CENTER OF COLORADO SHALL BE CONTACTED BY DIALING 811 OR 1-800-922-1987.
 - SUFFICIENT CLEARANCE SHALL BE MAINTAINED BETWEEN THE EXCAVATION FOR THE NEW WASTEWATER FACILITIES AND ANY POWER OR TELEPHONE POLE OR GUY WIRE, IN CASES WHERE FAILURE OF A POLE IS POSSIBLE, THE CONTRACTOR SHALL CONTACT THE APPROPRIATE UTILITY FOR ASSISTANCE TO TEMPORARILY BRACE OR SUPPORT THE POLE AS REQUIRED. IN THE CASE WHERE A GUY WIRE OR ITS ANCHOR IS IN DIRECT CONFLICT WITH THE WORK PROPOSED, THE CONTRACTOR SHALL COORDINATE WITH THE APPROPRIATE UTILITY FOR THE REMOVAL AND REINSTALLATION OF THE CONFLICTING GUY WIRE OR ANCHOR AS REQUIRED.
 - NO EXCAVATED MATERIAL SHALL BE PLACED UNDER OVERHEAD ELECTRIC CONDUCTORS OR AROUND POLES OR TEMPORARILY STORED UNDER LINES WITHOUT FIRST CONSULTING WITH THE ELECTRIC UTILITY TO DETERMINE IF ADEQUATE CLEARANCES WILL BE MAINTAINED. NO PERSON, TOOL, OR EQUIPMENT SHALL OPERATE CLOSER THAN 10 FEET TO ANY PORTION OF ANY ENERGIZED LINE WITHOUT FIRST COMPLYING WITH THE PROVISIONS OF COLORADO REVISED STATUTES 1973, SECTION 1, TITLE 9, ARTICLE 2.5, 102 AND 103.
 - THE CONTRACTOR SHALL NOT DISTURB ANY EXISTING UTILITIES UNLESS OTHERWISE NOTED ON THE DRAWINGS. ALL UTILITIES SHALL REMAIN IN SERVICE AT ALL TIMES DURING CONSTRUCTION UNLESS OTHER ARRANGEMENTS, ACCEPTABLE TO THE UTILITY OWNER, ARE MADE BETWEEN THE CONTRACTOR, THE RESPECTIVE UTILITY DEPARTMENT AND WHERE APPROPRIATE, THE PRIVATE PROPERTY OWNER(S).
 - THE CONTRACTOR IS RESPONSIBLE TO INSURE THAT ALL WORK IS PERFORMED IN ACCORDANCE WITH APPLICABLE STANDARDS AND REGULATIONS AS SET FORTH BY THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).
- EARTHWORK**
- ALL EXCAVATION, PIPE EMBEDMENT AND TRENCH BACKFILL SHALL BE IN ACCORDANCE WITH THE SECURITY SANITATION DISTRICT SEWER USE REGULATIONS AND THE DISTRICT DESIGN CRITERIA AND STANDARD SPECIFICATIONS AND SHALL CONFORM TO THE REQUIREMENTS OF THE LOCAL AUTHORITY GOVERNING WORK IN AND USE OF PUBLIC RIGHT-OF-WAYS.
 - IN THOSE AREAS WHERE CONSTRUCTION ACTIVITY ALTERS EXISTING DRAINAGE CONFIGURATIONS, DRAINAGE PATTERNS SHALL BE RESTORED TO AS GOOD AS OR BETTER CONDITIONS THAN THOSE THAT EXISTED PRIOR TO THE CONSTRUCTION ACTIVITY.
 - COMPACTION SHALL BE IN COMPLIANCE WITH THE SECURITY SANITATION DISTRICT SEWER USE REGULATIONS. IN THOSE AREAS WHERE CUT PERMITS ARE ISSUED BY AN OUTSIDE AUTHORITY OR IN CASE OF CONFLICT IN THE REFERENCED STANDARDS, COMPLY WITH THE MORE STRINGENT SPECIFICATION.
 - ANY MATERIAL NOT SUITABLE FOR INCORPORATION INTO TRENCH BACKFILL OR STREET SUBGRADE SHALL BE REMOVED FROM THE SITE.
 - ANY SOIL THAT IS DISTURBED BELOW THE DESIGNATED SUBGRADE ELEVATIONS BY CONSTRUCTION ACTIVITIES SHALL BE REPLACED IN ACCORDANCE WITH THE SECURITY SANITATION DISTRICT DESIGN CRITERIA AND STANDARD SPECIFICATIONS.
- TRAFFIC CONTROL AND STREET SURFACE RESTORATION**
- ALL STREET SURFACE RESTORATION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPLICABLE AGENCY HAVING JURISDICTION OVER THE ROADWAY, SUBJECT TO THE ACCEPTANCE BY THE SECURITY SANITATION DISTRICT.

SANITARY SEWER SERVICE LINES

- SANITARY SEWER SERVICE LINES MUST BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE SECURITY SANITATION DISTRICT SEWER USE REGULATIONS AND THE SECURITY SANITATION DISTRICT DESIGN CRITERIA AND STANDARD SPECIFICATIONS.
- SANITARY SEWER SERVICE CONNECTIONS USING IN-LINE TEES OR SADDLE TAP TEES SHALL BE INSTALLED NO LESS THAN 3 FEET FROM ANY MANHOLE AND NO LESS THAN 3 FEET FROM AN ADJACENT SEWER SERVICE CONNECTION OR TAP.
- THE CONTRACTOR SHALL NOTIFY THE SECURITY SANITATION DISTRICT 48 HOURS PRIOR TO COMMENCING EXCAVATION FOR A SANITARY SEWER SERVICE LINE AND COORDINATE THE REQUIRED INSPECTIONS.
- CLEANOUTS SHALL BE INSTALLED WHERE HORIZONTAL DEFLECTIONS IN ALIGNMENT OCCUR IN ACCORDANCE WITH THE SECURITY SANITATION DISTRICT DESIGN CRITERIA AND STANDARD SPECIFICATIONS.
- ALL SERVICE LINE INSTALLATIONS SHALL BE INSPECTED BY THE SECURITY SANITATION DISTRICT PRIOR TO BACKFILLING.
- SANITARY SEWER SERVICE LINES SHALL BE INSTALLED WITH AN ABSOLUTE MINIMUM SLOPE OF 2% UNLESS SPECIFICALLY AUTHORIZED BY THE SECURITY SANITATION DISTRICT IN WRITING.

GENERAL CONSTRUCTION NOTES

- SHOP DRAWING SUBMITTALS SHALL BE MADE TO THE SECURITY SANITATION DISTRICT FOR ALL MATERIALS TO BE INCORPORATED INTO THIS PROJECT.
- ALL SEWER MAIN AND SERVICE LINE WORK SHALL BE UNDERTAKEN UTILIZING CLASS "B" BEDDING, REFER TO THE SECURITY SANITATION DISTRICT DESIGN CRITERIA AND STANDARD SPECIFICATIONS FOR THE REQUIRED PIPELINE EMBEDMENT.
- ANY SIGNS, DELINEATOR POSTS, MAILBOXES, NEWSPAPER BOXES AND OTHER APPURTENANCES REMOVED DURING CONSTRUCTION SHALL BE REINSTALLED IN THE SAME LOCATION AND IN AN ACCEPTABLE CONDITION.
- IN THOSE AREAS WHERE NEW PIPELINE CONSTRUCTION IMPACTS EXISTING FENCING, THE CONTRACTOR SHALL REMOVE THE FENCING AS NECESSARY. ALL FENCING REMOVED DURING CONSTRUCTION SHALL BE REINSTALLED IN A CONDITION AS GOOD AS OR BETTER THAN ORIGINALLY FOUND.
- EXISTING PROPERTY CORNERS AND SECTION MONUMENTATION SHALL NOT BE DISTURBED. IN THE EVENT ANY EXISTING PROPERTY MONUMENTATION IS DISTURBED DURING THE COURSE OF CONSTRUCTION, IT SHALL BE REPLACED BY A SURVEYOR LICENSED IN THE STATE OF COLORADO.
- THE CONTRACTOR SHALL SET ALL MANHOLE RINGS AND COVERS OUTSIDE OF PAVED ROADWAYS OR HARDCAPED AREAS 2-INCHES ABOVE THE FINISH GRADE AND INSTALL A CARBONITE MARKER POST AT EACH MANHOLE. THE CONTRACTOR SHALL COORDINATE WITH THE SECURITY SANITATION DISTRICT FOR THE PLACEMENT OF THE CARBONITE MARKERS AT ALL OFF-ROAD MANHOLE LOCATIONS.
- IN PAVED ROADS OR HARDCAPED SURFACES, MANHOLE RINGS SHALL BE SET 1/4-INCH BELOW FINISH GRADE. CARE SHALL BE TAKEN IN FINAL GRADING TO PRECLUDE PONDING OF SURFACE WATER OVER MANHOLE RINGS AND COVERS.
- THE CONTRACTOR SHALL REVIEW THE DETAILS IN THE SECURITY SANITATION DISTRICT SEWER USE REGULATIONS AND STANDARD DRAWINGS FOR MANHOLE WALL THICKNESS, BASE DIAMETER AND THICKNESS AND WATERPROOFING REQUIREMENTS. MANHOLE BASES SHALL BE PRECAST UNITS UNLESS APPROVED IN ADVANCE BY THE SECURITY SANITATION DISTRICT.
- THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF CONCRETE/GROUT FILLETS IN THE MANHOLES WITH THE SECURITY SANITATION DISTRICT TO ENSURE PROPER PERFORMANCE AND ACHIEVEMENT OF DESIGN INTENT. FULL DEPTH, EQUAL TO THE PIPE DIAMETER, FLOW CHANNELS ARE REQUIRED.
- THE CONTRACTOR IS TO UNDERTAKE HIS WORK IN ACCORDANCE WITH OSHA'S CONFINED SPACE ENTRY REQUIREMENTS.
- NEW MATERIALS SHALL BE USED FOR ALL WORK UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- POSITIVE DRAINAGE SHALL BE PROVIDED AWAY FROM ALL STRUCTURES. FINAL GRADING IS SUBJECT TO REVIEW AND APPROVAL.
- THE SUBGRADE UNDERNEATH ALL STRUCTURES SHALL BE ADEQUATELY STABILIZED IN ACCORDANCE WITH THE SECURITY SANITATION DISTRICT SEWER USE REGULATIONS.
- ALL SANITARY SEWER COLLECTION SYSTEM COMPONENTS ARE SUBJECT TO PRESSURE TESTING IN ACCORDANCE WITH THE SECURITY SANITATION DISTRICT DESIGN CRITERIA AND STANDARD SPECIFICATIONS PRIOR TO FINAL ACCEPTANCE BY THE DISTRICT. ALL SANITARY SEWER LINES SHALL BE PROFESSIONALLY INSPECTED BY VIDEO CAMERA AND WRITTEN RECORDS AND DIGITAL VIDEO DISK (DVD) RECORDINGS FURNISHED TO THE SECURITY SANITATION DISTRICT FOR REVIEW AND APPROVAL.
- THE PIPELINE INSTALLATION SHALL GENERALLY BE ACCOMPLISHED FROM THE LOWEST PORTION OF THE PROJECT PROCEEDING UPHILL.
- FLAT TOP UDS OR PRECAST CONCRETE MANHOLES ARE REQUIRED FOR ALL MANHOLES 5.0 FEET AND LESS IN DEPTH. EXISTING CONES ARE TO BE INSTALLED ON ALL MANHOLES WITH DEPTHS GREATER THAN 5.0 FEET.
- THE CONTRACTOR SHALL THICKEN FILLETS IN MANHOLES AT THE DIRECTION OF THE SECURITY SANITATION DISTRICT WHERE THE UPSTREAM LINES HAVE EXCESSIVE GRADES.
- ALL POLYVINYLCHLORIDE (PVC) PIPE SHALL BE IN CONFORMANCE WITH ASTM D3534 (GREEN IN COLOR) AND INSTALLED PER ASTM D2321. PIPE STANDARD DIMENSION RATIO (SDR) OR PIPE STIFFNESS (PS) MAY VARY AND SHALL BE SHOWN ON THE CONSTRUCTION DRAWINGS.
- WHERE THE NEW SANITARY SEWER MAIN IS LESS THAN 18 VERTICAL INCHES UNDER A WATER MAIN, THE CONTRACTOR SHALL INSTALL A 20-FOOT LONG SEGMENT OF DUCTILE IRON PIPE (DIP) IN THE SANITARY SEWER MAIN CENTERED UNDER THE WATER MAIN CROSSING. THE DIP SHALL BE CONNECTED TO THE PVC SANITARY SEWER MAIN WITH WATERIGHT FERRO PIPE COUPLINGS ENCASED IN REINFORCED CONCRETE 12-INCHES LONG, 6-INCHES THICK. MATCH INVERTS OF THE DIP AND PVC PIPE.
- ALL DUCTILE IRON PIPING UTILIZED WITHIN THE SECURITY SANITATION DISTRICT SHALL HAVE AN INTERIOR COATING OR LINING IN ACCORDANCE WITH THE REQUIREMENTS OF THE SECURITY SANITATION DISTRICT DESIGN CRITERIA AND STANDARD SPECIFICATIONS SPECIFICALLY DESIGN, APPLIED AND INSTALLED FOR CORROSION CONTROL.
- THE SANITARY SEWER PIPELINE SHALL BE INSTALLED IN STRAIGHT ALIGNMENTS BETWEEN MANHOLES UNLESS OTHERWISE APPROVED BY THE SECURITY SANITATION DISTRICT.
- THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING WASTEWATER PIPELINES OR MANHOLES AS A RESULT OF THEIR CONSTRUCTION ACTIVITY.
- ALL PIPELINES SHALL BE "AS BUILT" SURVEYED AND "AS BUILT" DRAWINGS SUBMITTED TO THE SECURITY SANITATION DISTRICT FOR REVIEW AND ACCEPTANCE. PAPER OR "HARD COPY" DRAWINGS AND ELECTRONIC AUTOCAD FILES ARE REQUIRED. REFER TO THE SECURITY SANITATION DISTRICT DESIGN CRITERIA AND STANDARD SPECIFICATIONS FOR THE REQUIRED ELECTRONIC FILE FORMAT, HORIZONTAL COORDINATE SYSTEM AND VERTICAL DATUM.
- THE CONTRACTOR SHALL ACQUIRE AND FAMILIARIZE HIMSELF WITH THE SECURITY SANITATION DISTRICT (SSD) SEWER USE REGULATIONS (SURS), THE SECURITY SANITATION DISTRICT DESIGN CRITERIA AND STANDARD SPECIFICATIONS AND THE SSD POLICIES, PROCEDURES AND AGREEMENTS PERTAINING TO THIS PROJECT PRIOR TO COMMENCING CONSTRUCTION. A COPY OF THE DISTRICT'S SEWER USE REGULATIONS AND DESIGN CRITERIA AND STANDARD SPECIFICATIONS SHALL BE ON-SITE ANY TIME CONSTRUCTION IS BEING ACCOMPLISHED.
- MANHOLE ENTRY PERMIT: THE SECURITY SANITATION DISTRICT WILL AUTHORIZE THE CONTRACTOR TO ENTER DISTRICT-OWNED MANHOLES. HOWEVER, THE DISTRICT WILL NOT ISSUE AN "ENTRY PERMIT" TO THE CONTRACTOR FOR ANY CONFINED SPACE. PRIOR TO ANY ENTRY, THE CONTRACTOR SHALL PROVIDE HIS OWN PERSONNEL CAPABLE AND QUALIFIED TO ISSUE AN ENTRY PERMIT FOR ENTRY INTO CONFINED SPACES. THE SECURITY SANITATION DISTRICT WILL ASSUME NO RESPONSIBILITY FOR THE CONTRACTOR'S ENTRY INTO DISTRICT-OWNED MANHOLES.
- ALL MANHOLES SHALL HAVE A FOUR (4) FOOT INSIDE DIAMETER UNLESS OTHERWISE SHOWN ON THE CONSTRUCTION DRAWINGS.
- THE WARRANTY FOR COMPLETED WORK SHALL EXTEND FOR A TWO-YEAR PERIOD FROM THE DATE OF ACCEPTANCE OF THE PROJECT BY THE DISTRICT.
- ALL SANITARY SEWER MAINS AND SERVICE LINES SHALL HAVE A 12 GAUGE COPPER CLAD STEEL INSULATED TRACER WIRE TAPED TO THE TOP OF PIPE. THE INSULATED COVERING SHALL HAVE A 45 MI. HIGH MOLECULAR WEIGHT, POLYETHYLENE MATERIAL, COLORED GREEN. THE TRACER WIRE SHOULD HAVE A MINIMUM VOLT-RATING OF 30.

GENERAL

- "DISTRICT MAINS" AS DEFINED IN SECTION 2.01 (A) OF THE SECURITY WATER DISTRICT (SWD) STANDARD SPECIFICATIONS WILL BE LOCATED WITHIN PUBLIC RIGHT-OF-WAY AND/OR EASEMENTS AS DETERMINED BY THE SECURITY WATER DISTRICT. PUBLIC RIGHT-OF-WAYS MUST BE APPROVED BY THE LOCAL LAND USE AUTHORITY IN THE SUBDIVISION PLAT OR OTHERWISE BY DEDICATION AND RECORD.
- THE SECURITY WATER DISTRICT MUST RECEIVE SIGNED AND RECORDED COPIES OF ALL EASEMENT AGREEMENTS PRIOR TO THE START OF CONSTRUCTION.
- ALL WORK SHALL BE IN ACCORDANCE WITH THE SECURITY WATER DISTRICT STANDARD SPECIFICATIONS, THE SECURITY WATER DISTRICT DESIGN CRITERIA AND THE SECURITY WATER DISTRICT POLICIES, PROCEDURES AND AGREEMENTS PERTAINING TO THIS PROJECT.
- THE CONTRACTOR SHALL COORDINATE AND PROVIDE FOR DETERMINING THE LOCATION AND PROVIDING FOR PROTECTION OF EXISTING UTILITIES AND DRAINAGE STRUCTURES. THE UTILITY NOTIFICATION CENTER OF COLORADO SHALL BE CONTACTED BY DIALING 811 OR 1-800-922-1987.
- SUFFICIENT CLEARANCE SHALL BE MAINTAINED BETWEEN THE EXCAVATION FOR THE NEW WATER FACILITIES AND ANY POWER OR TELEPHONE POLE OR GUY WIRE, IN CASES WHERE FAILURE OF A POLE IS POSSIBLE, THE CONTRACTOR SHALL CONTACT THE APPROPRIATE UTILITY FOR ASSISTANCE TO TEMPORARILY BRACE OR SUPPORT THE POLE AS REQUIRED. IN THE CASE WHERE A GUY WIRE OR ITS ANCHOR IS IN DIRECT CONFLICT WITH THE WORK PROPOSED, THE CONTRACTOR SHALL COORDINATE WITH THE APPROPRIATE UTILITY FOR THE REMOVAL AND REINSTALLATION OF THE CONFLICTING GUY WIRE OR ANCHOR AS REQUIRED.
- NO EXCAVATED MATERIAL SHALL BE PLACED UNDER OVERHEAD ELECTRIC CONDUCTORS OR AROUND POLES OR TEMPORARILY STORED UNDER LINES WITHOUT FIRST CONSULTING WITH THE ELECTRIC UTILITY TO DETERMINE IF ADEQUATE CLEARANCES WILL BE MAINTAINED. NO PERSON, TOOL, OR EQUIPMENT SHALL OPERATE CLOSER THAN 10 FEET TO ANY PORTION OF ANY ENERGIZED LINE WITHOUT FIRST COMPLYING WITH THE PROVISIONS OF COLORADO REVISED STATUTES 1973, SECTION 1, TITLE 9, ARTICLE 2.5, 102 AND 103.
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EARTHWORK

- ALL EXCAVATION, PIPE EMBEDMENT AND TRENCH BACKFILL SHALL BE IN ACCORDANCE WITH THE SECURITY WATER DISTRICT STANDARD SPECIFICATIONS AND SHALL CONFORM TO THE REQUIREMENTS OF THE LOCAL AUTHORITY GOVERNING WORK IN AND USE OF PUBLIC RIGHT-OF-WAYS.
 - IN THOSE AREAS WHERE CONSTRUCTION ACTIVITY ALTERS EXISTING DRAINAGE CONFIGURATIONS, DRAINAGE PATTERNS SHALL BE RESTORED TO AS GOOD AS OR BETTER CONDITIONS THAN THOSE THAT EXISTED PRIOR TO THE CONSTRUCTION ACTIVITY.
 - COMPACTION SHALL BE IN COMPLIANCE WITH THE SECURITY WATER DISTRICT SPECIFICATIONS. IN THOSE AREAS WHERE CUT PERMITS ARE ISSUED BY AN OUTSIDE AUTHORITY OR IN CASE OF CONFLICT IN THE REFERENCED STANDARDS, COMPLY WITH THE MORE STRINGENT SPECIFICATION.
 - ANY MATERIAL NOT SUITABLE FOR INCORPORATION INTO TRENCH BACKFILL OR STREET SUBGRADE SHALL BE REMOVED FROM THE SITE.
 - ANY SOIL THAT IS DISTURBED BELOW THE DESIGNATED SUBGRADE ELEVATIONS BY CONSTRUCTION ACTIVITIES SHALL BE REPLACED IN ACCORDANCE WITH THE SECURITY WATER DISTRICT STANDARD SPECIFICATIONS.
- TRAFFIC CONTROL AND STREET SURFACE RESTORATION**
- ALL STREET SURFACE RESTORATION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPLICABLE AGENCY HAVING JURISDICTION OVER THE ROADWAY, SUBJECT TO THE ACCEPTANCE BY THE SECURITY WATER DISTRICT.

WATER MAINS & APPURTENANCES

- POTHOLES OR EXCAVATION FOR WATER MAINS CROSSING, EXISTING UTILITIES OR OBSTRUCTIONS SHALL BE PERFORMED AT THE DEEPEST SIDE OF THE LOCATION. THE LOCATION OF CONNECTION OF NEW WATER MAINS AND EXISTING DISTRIBUTION SYSTEM FACILITIES SHALL BE EXCAVATED AND HORIZONTAL AND VERTICAL LOCATION OF EXISTING FACILITIES DETERMINED BY PRECISE SURVEY. THE POTHOLE AND SURVEY DATA SHALL BE SHOWN ON THE FINAL APPROVED WATER MAIN PLANS AND/OR DRAWINGS.
- THE CONTRACTOR IS REQUIRED TO NOTIFY THE SECURITY WATER DISTRICT INSPECTOR OFFICE TWO WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION. THE SECURITY WATER DISTRICT WILL BE NOTIFIED FIVE WORKING DAYS PRIOR TO ANY SHUT DOWN OF EXISTING SERVICE DUE TO CONSTRUCTION.
- REUSE OF ANY MATERIALS OR REJECTION OF ANY NEW MATERIALS SHALL BE AT THE SOLE DISCRETION OF THE SECURITY WATER DISTRICT'S INSPECTOR. THE SECURITY WATER DISTRICT'S DECISION SHALL BE FINAL.
- ALL STREET VALVE BOXES SHALL BE 18" INCH UNION SLP TYPE (664-A, 261+388 IS REFERENCE TO LEVEL ONE ASSEMBLY, LESS 1/4" DROP, 1/4" MARKED "WATER"). STREET VALVE BOXES SHALL BE SET 1/4" BELOW FINAL PAVEMENT SURFACE ELEVATION. FINAL SURFACE ELEVATION SHALL BE CONSTRUCTED AS ASSEMBLY AS DESIGNED. TOP SECTION FLANGE WILL BEAR APPLIED LOADING. DROP-IN RISERS SHALL BE USED.
- DO NOT DROP PIPE AND FITTINGS WHEN OFF-LOADING. DO NOT STORE PIPE AND ASSOCIATED MATERIALS DIRECTLY ON THE GROUND.
- ALL WATER MAINS AND APPURTENANCES DELIVERED TO THE SITE FOR INSTALLATION SHALL BE KEPT CLEAN. THE ENDS OF PIPES AND FITTINGS SHALL BE COVERED UNDER PROTECTIVE COVERS AT THE TIME OF DELIVERY TO PROTECT THE INNER SURFACES FROM COMING INTO CONTACT WITH MOISTURE, DIRT, DUST, DEBRIS AND ANIMALS AND SHALL REMAIN PROTECTED UNTIL INSTALLATION IS COMPLETE.

WATER SERVICE LINES

- SERVICE LINES SHALL BE INSTALLED WITH WET TAPS FOR CORPORATION STOPS. LINES ONE (1) INCH AND SMALLER DIAMETER SHALL BE DIRECT TAPPED (C/C THREADED). TAPS ONE AND A HALF (1-1/2) INCH AND LARGER REQUIRE A WELVE (12) INCH LONG, C/C THREADED, FUSION EPOXY COATED, STEEL TAPPING SLEEVE OR CUT IN TEE.
- EACH BUSINESS, EACH RESIDENCE, AND EACH UNIT OF A DUPLEX HAVING SEPARATE WATER FACILITIES SHALL HAVE A SEPARATE METER AND WATER SERVICE LINE FROM THE MAIN TO THE METER ASSEMBLY.
- EXISTING BUSINESSES OR RESIDENCES THAT MODIFY, EXPAND OR SPLIT SPACE THAT NOW HAVE ONE SERVICE LINE, SHALL INSTALL A NEW SERVICE LINE AND METER ASSEMBLY ALL THE WAY TO THE MAIN IF THERE IS TO BE A SEPARATE BUSINESS OR RESIDENCE.
- TAPPING PERMITS MUST BE APPLIED FOR AT THE SECURITY WATER DISTRICT OFFICE LOCATED AT 231 SECURITY BOULEVARD, PHONE 719-392-3475, AND PAID FOR AT LEAST 24 HOURS PRIOR TO TAPPING.
- ALL SERVICE TAPS ON WATER MAINS WITHIN THE SECURITY WATER DISTRICT DISTRIBUTION SYSTEM SHALL BE ACCOMPLISHED BY THE CONTRACTOR, WHO SHALL NOTIFY THE SECURITY WATER DISTRICT 24 HOURS PRIOR TO TAPPING. PROPERTY CORNERS SHALL BE CLEARLY MARKED BY THE CONTRACTOR OR OWNER PRIOR TO TAPPING.
- SERVICE LINE MATERIAL SHALL BE DISCSOPLEX® 5100 ULTRA-LINE® POLYETHYLENE (PE) PIPING, SDR-7, (OR SECURITY WATER DISTRICT APPROVED) ACCOMPANIED BY A #6 BARE COPPER LOCATION WIRE. CURB STOPS AND CORPORATION STOPS SHALL BE FORD BRASS. CURB STOP BOXES SHALL BE TYERS BOTTOM SLP JOINT AND TOP SOREN JOINT.
- SERVICE LINES SHALL ENTER THE LOT AS CLOSE AS POSSIBLE TO 90-DEGREES TO THE FRONT PROPERTY LINE. SERVICE LINES SHALL HAVE NO LESS THAN 10-FEET OF SEPARATION FROM SEWER SERVICES AND NO LESS THAN 6-FEET OF SEPARATION FROM ALL OTHER UTILITIES. BENCHING OF WATER SERVICE LINES ABOVE SEWER SERVICES IN A COMMON DITCH IS NOT PERMITTED. CURB STOPS SHALL BE SET AT A DEPTH OF 4-FEET TO FINAL GRADE OR AT SIDEWALK ELEVATION. CURB STOPS SHALL NOT BE LOCATED IN SIDEWALKS OR DRIVEWAYS.
- DRAWINGS FOR NON-RESIDENTIAL SERVICE INSTALLATIONS SHALL HAVE A DETAIL OF THE UTILITY ROOM SHOWING METERS, PRIV, BACKFLOW DEVICE, ISOLATION VALVES, FLOOR DRAIN, AND OTHER REQUIRED APPURTENANCES. BACKFLOW DEVICES SHALL BE TESTED BY A CERTIFIED BACKFLOW TECHNICIAN PRIOR TO INITIAL ACCEPTANCE BY THE SECURITY WATER DISTRICT. THE SECURITY WATER DISTRICT SHALL RECEIVE COPIES OF TEST RESULTS ON SECURITY WATER DISTRICT TEST FORMS AVAILABLE AT THE SECURITY WATER DISTRICT OFFICE.

GENERAL CONSTRUCTION NOTES

- SHOP DRAWING SUBMITTALS SHALL BE MADE TO THE SECURITY WATER DISTRICT FOR ALL MATERIALS TO BE INCORPORATED INTO THIS PROJECT.
- ALL WATER MAINS AND SERVICE LINE WORK SHALL BE UNDERTAKEN UTILIZING CLASS "B" BEDDING, REFER TO THE SECURITY WATER DISTRICT STANDARD SPECIFICATIONS FOR THE REQUIRED PIPELINE EMBEDMENT.
- ANY SIGNS, DELINEATOR POSTS, MAILBOXES, NEWSPAPER BOXES AND OTHER APPURTENANCES REMOVED DURING CONSTRUCTION SHALL BE REINSTALLED IN THE SAME LOCATION AND IN AN ACCEPTABLE CONDITION.
- IN THOSE AREAS WHERE NEW PIPELINE CONSTRUCTION IMPACTS EXISTING FENCING, THE CONTRACTOR SHALL REMOVE THE FENCING AS NECESSARY. ALL FENCING REMOVED DURING CONSTRUCTION SHALL BE REINSTALLED IN A CONDITION AS GOOD AS OR BETTER THAN ORIGINALLY FOUND.
- EXISTING PROPERTY CORNERS AND SECTION MONUMENTATION SHALL NOT BE DISTURBED. IN THE EVENT ANY EXISTING PROPERTY MONUMENTATION IS DISTURBED DURING THE COURSE OF CONSTRUCTION, IT SHALL BE REPLACED BY A SURVEYOR LICENSED IN THE STATE OF COLORADO.
- THE CONTRACTOR SHALL SET ALL VALVE RISER BOXES OUTSIDE OF PAVED ROADWAYS OR HARDCAPED AREAS 2-INCHES ABOVE THE FINISH GRADE AND INSTALL A CARBONITE MARKER POST AT EACH VALVE. THE CONTRACTOR SHALL COORDINATE WITH THE SECURITY WATER DISTRICT FOR THE PLACEMENT OF THE CARBONITE MARKERS AT ALL OFF-ROAD VALVE LOCATIONS.
- NEW MATERIALS SHALL BE USED FOR ALL WORK UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- POSITIVE DRAINAGE SHALL BE PROVIDED AWAY FROM ALL STRUCTURES. FINAL GRADING IS SUBJECT TO REVIEW AND APPROVAL.
- THE SUBGRADE UNDERNEATH ALL STRUCTURES SHALL BE ADEQUATELY STABILIZED IN ACCORDANCE WITH THE SECURITY WATER DISTRICT STANDARD SPECIFICATIONS.
- ALL WATER MAINS ARE SUBJECT TO PRESSURE TESTING IN ACCORDANCE WITH THE SECURITY WATER DISTRICT STANDARD SPECIFICATIONS PRIOR TO FINAL ACCEPTANCE BY THE SECURITY WATER DISTRICT. ALL WATER MAINS MUST BE PRESSURE TESTED, DISINFECTED, AND AN ACCEPTABLE BACTERIOLOGICAL TEST RECEIVED AND PROVIDED TO THE SECURITY WATER DISTRICT FOR ACCEPTANCE.
- THE PIPELINE INSTALLATION SHALL GENERALLY BE ACCOMPLISHED BY PUSHING SPOOT ENDS INTO BELL ENDS OF THE PIPE.
- ALL WATER MAINS INSTALLED WITHIN THE SECURITY WATER DISTRICT SHALL BE DUCTILE IRON PIPE (DIP) IN ACCORDANCE WITH THE SECURITY WATER DISTRICT STANDARD SPECIFICATIONS.
- WHERE THE NEW WATER MAIN IS LESS THAN 18 VERTICAL INCHES OVER A SANITARY SEWER MAIN, THE WATER LINE SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT REQUIREMENTS.
- ALL DUCTILE IRON PIPING UTILIZED WITHIN THE SECURITY WATER DISTRICT DISTRIBUTION SYSTEM SHALL HAVE AN EXTERIOR COATING AND AN INTERIOR LINING IN ACCORDANCE WITH THE REQUIREMENTS OF THE SECURITY WATER DISTRICT STANDARD SPECIFICATIONS.
- THE WATER MAIN PIPELINE SHALL BE INSTALLED IN STRAIGHT ALIGNMENTS UNLESS OTHERWISE APPROVED BY THE SECURITY WATER DISTRICT.
- THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING WATER DISTRIBUTION SYSTEM PIPELINES AS A RESULT OF THEIR CONSTRUCTION ACTIVITY.
- ALL PIPELINES SHALL BE "AS BUILT" SURVEYED AND "AS BUILT" DRAWINGS SUBMITTED TO THE SECURITY WATER DISTRICT FOR REVIEW AND ACCEPTANCE. PAPER OR "HARD COPY" DRAWINGS AND ELECTRONIC AUTOCAD FILES ARE REQUIRED. REFER TO THE SECURITY WATER DISTRICT STANDARD SPECIFICATIONS FOR THE REQUIRED ELECTRONIC FILE FORMAT, HORIZONTAL COORDINATE SYSTEM AND VERTICAL DATUM.
- THE CONTRACTOR SHALL ACQUIRE AND FAMILIARIZE HIMSELF WITH THE SECURITY WATER DISTRICT STANDARD SPECIFICATIONS, THE SECURITY WATER DISTRICT DESIGN CRITERIA AND THE SECURITY WATER DISTRICT POLICIES, PROCEDURES AND AGREEMENTS PERTAINING TO THIS PROJECT PRIOR TO COMMENCING CONSTRUCTION. A COPY OF THE SECURITY WATER DISTRICTS STANDARD SPECIFICATIONS SHALL BE ON-SITE ANY TIME CONSTRUCTION IS BEING ACCOMPLISHED.
- THE WARRANTY FOR COMPLETED WORK SHALL EXTEND FOR A ONE-YEAR PERIOD FROM THE DATE OF THE PRELIMINARY ACCEPTANCE OF THE PROJECT BY THE SECURITY WATER DISTRICT.

REV.	DESCRIPTION	DATE
1	ADDRESS AGENCY COMMENTS	06/19/19



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BENCHMARK:

NCS BENCHMARK U 404: LOCATED 0.35 MILES NORTH OF MAIN STREET IN FOUNTAIN, 128.0 FEET NORTHEAST OF THE CENTERLINE OF U.S. HIGHWAY 85, 44.6 FEET SOUTHWEST OF A POWER LINE CROSSING AND 20.7 FEET NORTH OF THE CENTER OF A SANITARY SEWER MANHOLE COVER.
ELEVATION = 5737.76 (NAVD88)

PREPARED FOR:

AVATAR EQUITIES, LLC

6800 JERICO TURNPIKE
SUITE 120W #204
SYOSSET, NY 11791

BASIS OF BEARINGS:

THE WEST LINE OF THE NORTHEAST QUARTER (NE 1/4) OF SECTION 14, TOWNSHIP 15 SOUTH, RANGE 66 WEST OF THE 6TH P.M., MONUMENTED AT THE NORTH QUARTER (N 1/4) CORNER WITH A 3 1/4" ALUMINUM CAP, STAMPED "BARRON LAND 2018 PLS 38141" AND AT THE CENTER QUARTER (C 1/4) CORNER WITH A 3 1/4" ALUMINUM CAP, STAMPED "OLIVER E. WATTS 1904 PE-LS 9853" AND BEARS S 00°24'11" E, 2640.42 FEET.

SECURITY SANITATION DISTRICT STATEMENT

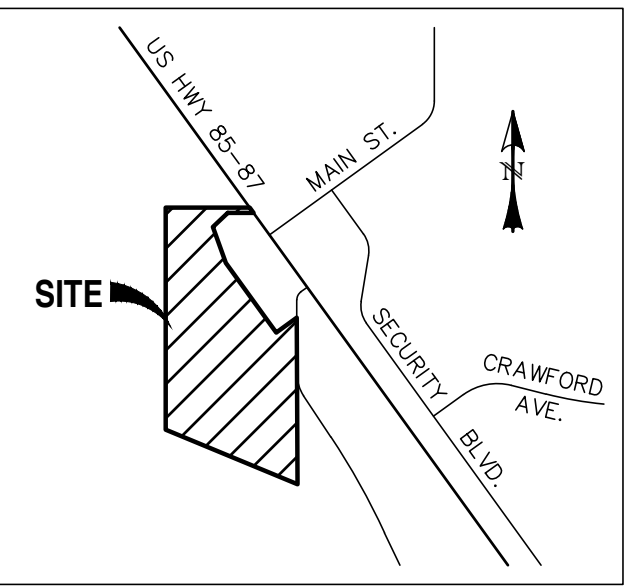
THE UNDERSIGNED OWNER/DEVELOPER AGREES THAT THE INSTALLATION OF THESE PROPOSED SEWER FACILITIES WILL BE MADE IN ACCORDANCE WITH SANITATION DISTRICT SPECIFICATIONS. ANY CHANGES REQUIRED TO MEET THE ABOVE STIPULATIONS SHALL BE AT THE EXPENSE OF THE OWNER/DEVELOPER.

ANY SEWER MAIN, SERVICE LINE, OR APPURTENANCE TO EITHER, THAT IS TO BE RELOCATED OR ADJUSTED BECAUSE OF OBSTRUCTION OR DEVELOPMENT SHALL BE ACCOMPLISHED BY THE DEVELOPER, BUILDER, CONTRACTOR, OR PERSON(S) REQUIRING THE MOVEMENT, RELOCATION OR ADJUSTMENT. THIS SHALL BE AT NO EXPENSE TO THE SECURITY SANITATION DISTRICT.

SIGNED _____ DATE _____
OWNER/DEVELOPER

SECURITY WATER PLAN APPROVAL

SIGNED _____ DATE _____
SECURITY WATER DISTRICT



VICINITY MAP
SCALE: N.T.S.

SECURITY SANITATION PLAN APPROVAL

SIGNED _____ DATE _____
SECURITY SANITATION DISTRICT

SECURITY WATER DISTRICT STATEMENT

THE UNDERSIGNED OWNER/DEVELOPER AGREES THAT THE INSTALLATION OF THESE PROPOSED WATER FACILITIES WILL BE MADE IN ACCORDANCE WITH THE SECURITY WATER DISTRICT STANDARD SPECIFICATIONS. ANY CHANGES REQUIRED TO MEET THE ABOVE STIPULATIONS SHALL BE AT THE EXPENSE OF THE OWNER/DEVELOPER.

ANY WATER MAIN, SERVICE LINE OR APPURTENANCE THAT IS TO BE RELOCATED BECAUSE OF CONSTRUCTION OR DEVELOPMENT SHALL BE ACCOMPLISHED BY THE DEVELOPER, BUILDER, CONTRACTOR, OR PERSONS REQUIRING THE MOVEMENT, RELOCATION OR ADJUSTMENT. THIS SHALL BE AT NO EXPENSE TO THE SECURITY WATER DISTRICT.

SIGNED _____ DATE _____
OWNER/DEVELOPER

DBA _____
ADDRESS _____

ALL FIRE HYDRANTS SHALL BE INSTALLED IN ACCORDANCE WITH THE SECURITY WATER DISTRICT STANDARD SPECIFICATIONS.

THE NUMBER OF FIRE HYDRANTS AND HYDRANT LOCATIONS AS SHOWN ON THIS WATER INSTALLATION PLAN ARE ADEQUATE TO SATISFY THE FIRE PROTECTION AGENCY FOR THIS AREA.

SIGNED _____ DATE _____

AGENCY _____

CONSTRUCTION PLANS AND SPECIFICATIONS ENGINEERS STATEMENT:

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION. SAID PLANS AND SPECIFICATIONS HAVE BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR DETAILED ROADWAY, DRAINAGE, GRADING AND EROSION CONTROL PLANS AND SPECIFICATIONS AND SAID PLANS AND SPECIFICATIONS ARE IN CONFORMITY WITH APPLICABLE MASTER DRAINAGE PLANS AND MASTER TRANSPORTATION PLANS. SAID PLANS AND SPECIFICATIONS MEET THE PURPOSES FOR WHICH THE PARTICULAR DRAINAGE AND DRAINAGE FACILITIES ARE DESIGNED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN THE PREPARATION OF THESE DETAILED PLANS AND SPECIFICATIONS.



DAVID L. MUIRES, COLORADO PE #40510

10/19/20
DATE

OWNER/DEVELOPER STATEMENT:

I, THE OWNER/DEVELOPER, HAVE READ AND WILL COMPLY WITH ALL OF THE REQUIREMENTS SPECIFIED IN THESE DETAILED PLANS AND SPECIFICATIONS.

OWNER SIGNATURE — AVATAR EQUITIES LLC
6800 JERICO TURNPIKE, SUITE 120W, #204
SYOSSET, NY 11791

DATE

LEGEND

EXISTING	(E)	BOUNDARY	---
PROPOSED	(P)	RIGHT-OF-WAY	---
CURB & GUTTER	C&G	LOT LINE	---
PUBLIC	PUB	EASEMENT	---
IMPROVEMENT	IMP	(E) SANITARY MAIN, MH	---
EASEMENT	ESMT	(E) WATER MAIN, BOV, VALVE, FH	---
FIRE HYDRANT	FH	(E) GAS MAIN	---
MANHOLE	MH	(P) SANITARY MAIN, MH	---
SANITARY	SAN	(P) SANITARY SEWER SERVICE	---
SEWER	SWR	(P) SANITARY FORCE MAIN	---
STORM	STM	(DESIGN BY OTHERS)	---
WATER	WTR	(E) STORM SEWER, INLET, MH	---
		(P) STORM SEWER, INLET, MH	---
		(P) WATER MAIN, VALVE, FH	---
		(P) WATER SERVICE	---

EL PASO COUNTY APPROVAL:

"COUNTY PLAN REVIEW IS PROVIDED ONLY FOR GENERAL CONFORMANCE WITH COUNTY DESIGN CRITERIA. THE COUNTY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, DIMENSIONS, AND/OR ELEVATIONS WHICH SHALL BE CONFIRMED AT THE JOB SITE. THE COUNTY THROUGH THE APPROVAL OF THIS DOCUMENT ASSUMES NO RESPONSIBILITY FOR THE COMPLETENESS AND/OR ACCURACY OF THIS DOCUMENT."

IN ACCORDANCE WITH ECM SECTION 1.12, THESE CONSTRUCTION DOCUMENTS WILL BE VALID FOR CONSTRUCTION FOR A PERIOD OF 2 YEARS, THE PLANS WILL NEED TO BE RESUBMITTED FOR APPROVAL, INCLUDING PAYMENT OF REVIEW FEES AT THE PLANNING AND COMMUNITY DEVELOPMENT DIRECTOR'S DISCRETION.

JENNIFER IRVINE, P.E.
COUNTY ENGINEER / ECM ADMINISTRATOR

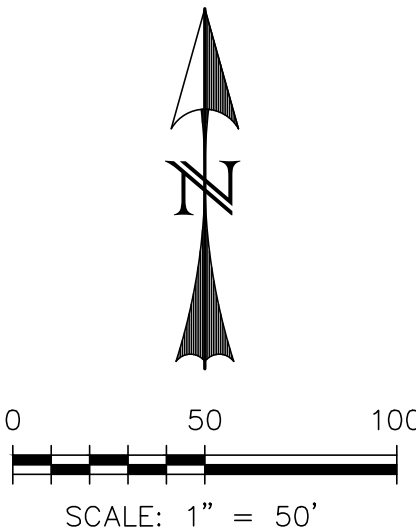
DATE



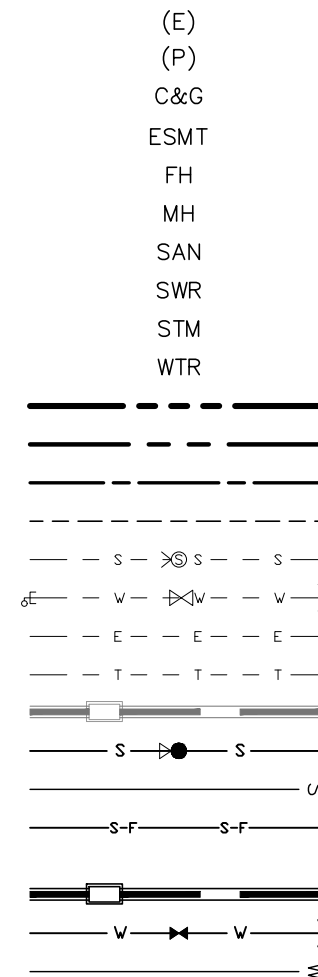
RIVERBEND
CROSSING

UTILITY CONSTRUCTION DRAWINGS

DESIGNED BY:	MGP	DRAWN BY:	MGP
SCALE:	N/A	DATE:	10/19/20
JOB NUMBER	17-114	SHEET	1 OF 18




EXISTING
PROPOSED
CURB AND GUTTER
EASEMENT
FIRE HYDRANT
MANHOLE
SANITARY
SEWER
STORM
WATER
BOUNDARY
RIGHT-OF-WAY
LOT LINE
EASEMENT
(E) SANITARY MAIN, MH
(E) WATER MAIN, BOV, VALVE, FH
(E) UG ELECTRIC
(E) UG TELEPHONE
(E) STORM SEWER, INLET, MH
(E) SANITARY MAIN, MH
(P) SANITARY SEWER SERVICE
(P) SANITARY FORCE MAIN
(DESIGN BY OTHERS)
(P) STORM SEWER, INLET, MH
(P) WATER MAIN, VALVE, FH
(P) WATER SERVICE



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PREPARED UNDER MY DIRECT SUPERVISION FOR AND BEHALF OF CATAMOUNT ENGINEERING



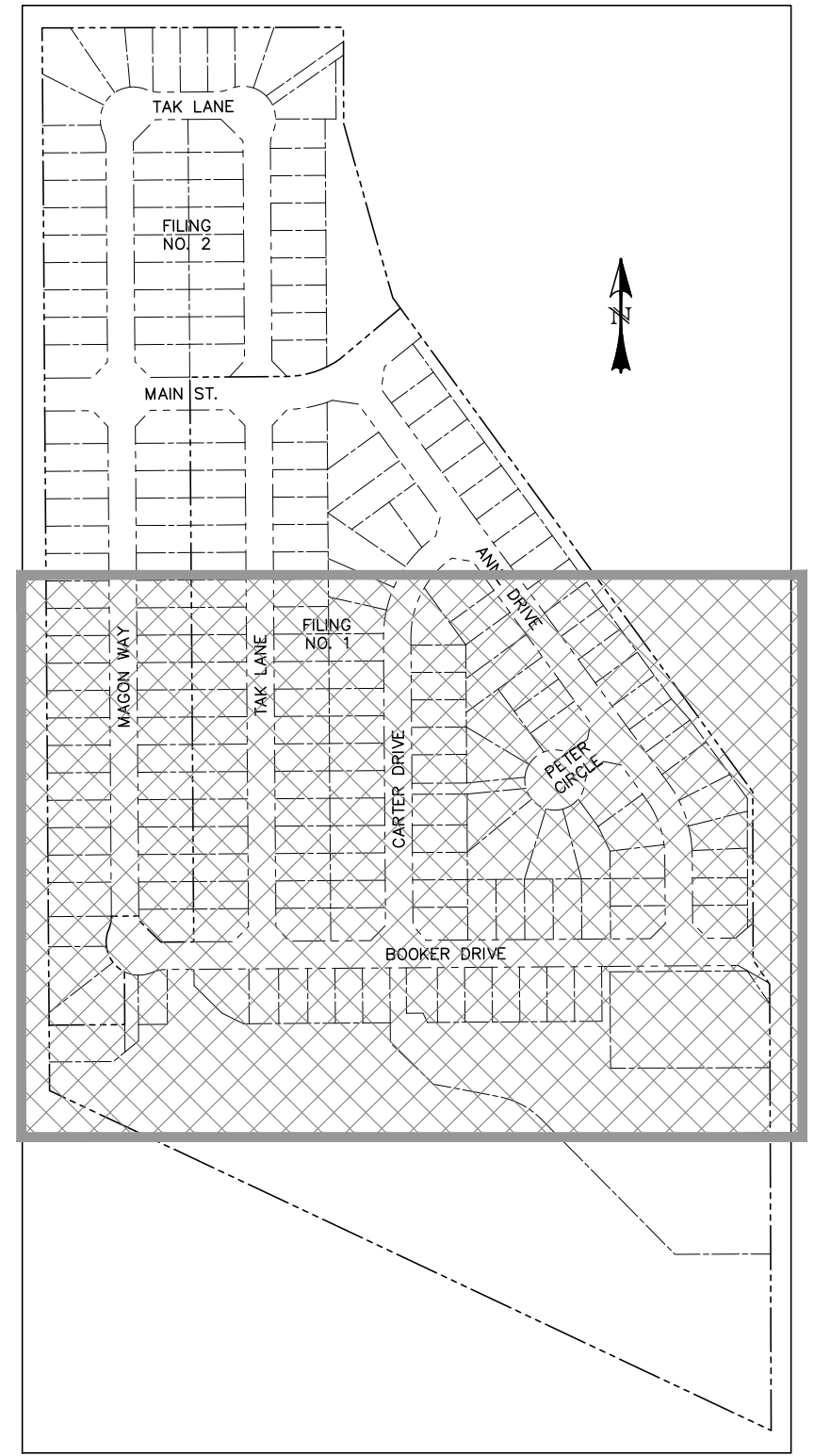
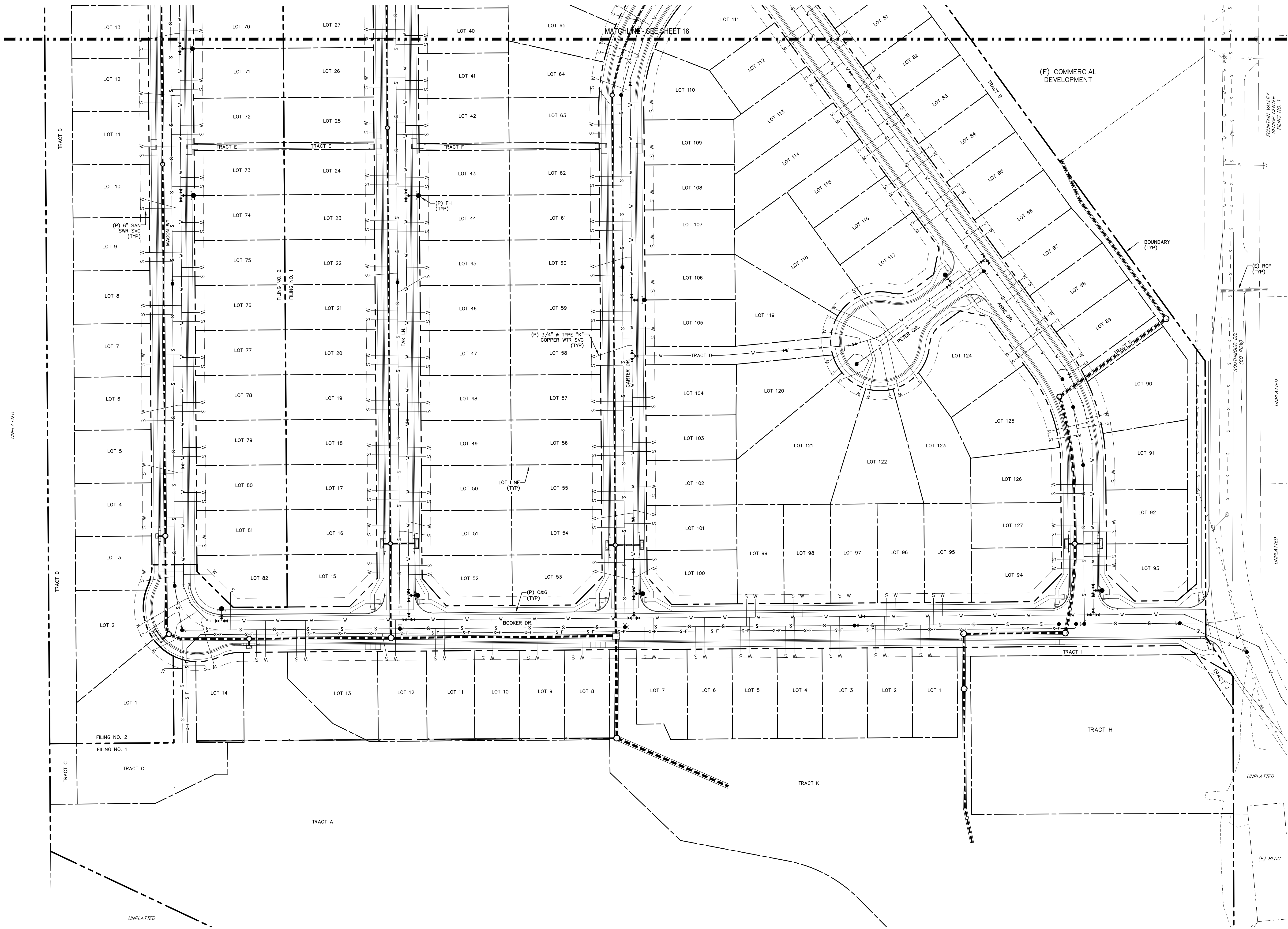
David L. Mijares

DAVID L. MIJARES, LICENSE NO. #40510

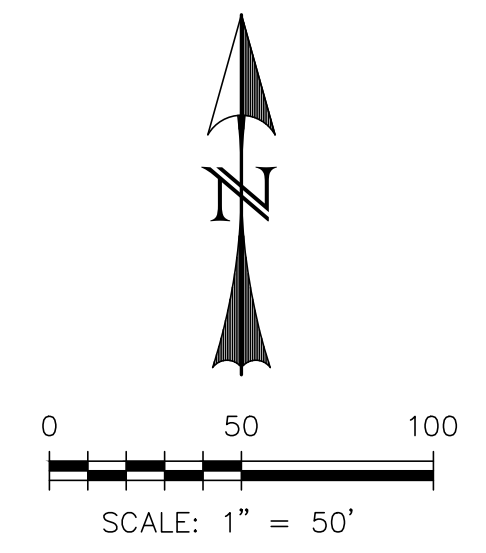
10/19/20
DATE



DESIGNED BY:	MGP	DRAWN BY:	MGP
SCALE:	1" = 50'	DATE:	10/19/20
JOB NUMBER		SHEET	
17-114		2 OF 18	



LOCATION MAP
SCALE: N.T.S.



LEGEND

- EXISTING
- PROPOSED
- CURB AND GUTTER
- EASEMENT
- FIRE HYDRANT
- MANHOLE
- SANITARY
- SEWER
- STORM
- WATER
- BOUNDARY
- RIGHT-OF-WAY
- LOT LINE
- EASEMENT
- (E) SANITARY MAIN, MH
- (E) WATER MAIN, BOV, VALVE, FH
- (E) UG ELECTRIC
- (E) UG TELEPHONE
- (E) STORM SEWER, INLET, MH
- (P) SANITARY MAIN, MH
- (P) SANITARY SEWER SERVICE
- (P) SANITARY FORCE MAIN (DESIGN BY OTHERS)
- (P) STORM SEWER, INLET, MH
- (P) WATER MAIN, VALVE, FH
- (P) WATER SERVICE

- (E)
- (P)
- C&G
- ESMT
- FH
- MH
- SAN
- SWR
- STM
- WTR

REV.	DESCRIPTION	DATE
1	ADDRESS AGENCY COMMENTS	06/19/19

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PREPARED FOR:
AVATAR EQUITIES, LLC
6800 JERICHO TURNPIKE
SUITE 120W #204
SYOSSET, NY 11791

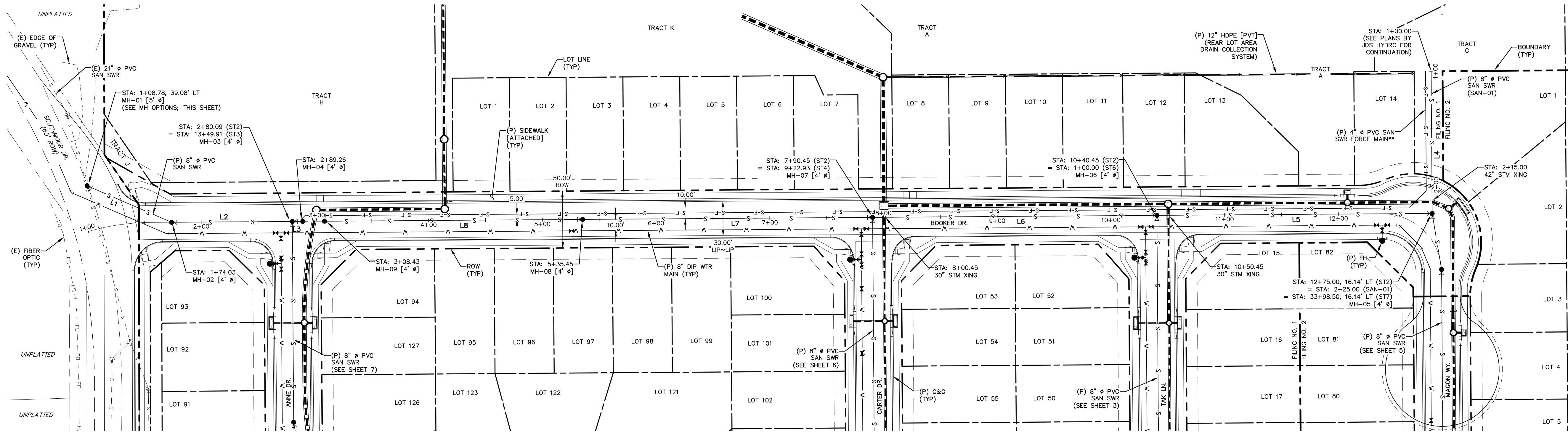
PREPARED UNDER CONTRACT FOR AND BEHALF OF CATAMOUNT ENGINEERING.

DAVID L. MIJARES, LICENSED PROFESSIONAL ENGINEER
10/19/20
DATE

CATAMOUNT ENGINEERING
321 W. HENRIETTA AVE
PO BOX 221
WOODLAND PARK, CO 80866
(719) 428-2124

RIVERBEND CROSSING
UTILITY SERVICE PLAN

DESIGNED BY:	MGP	DRAWN BY:	MGP
SCALE:	1" = 50'	DATE:	10/19/20
JOB NUMBER	17-114	SHEET	3 OF 18



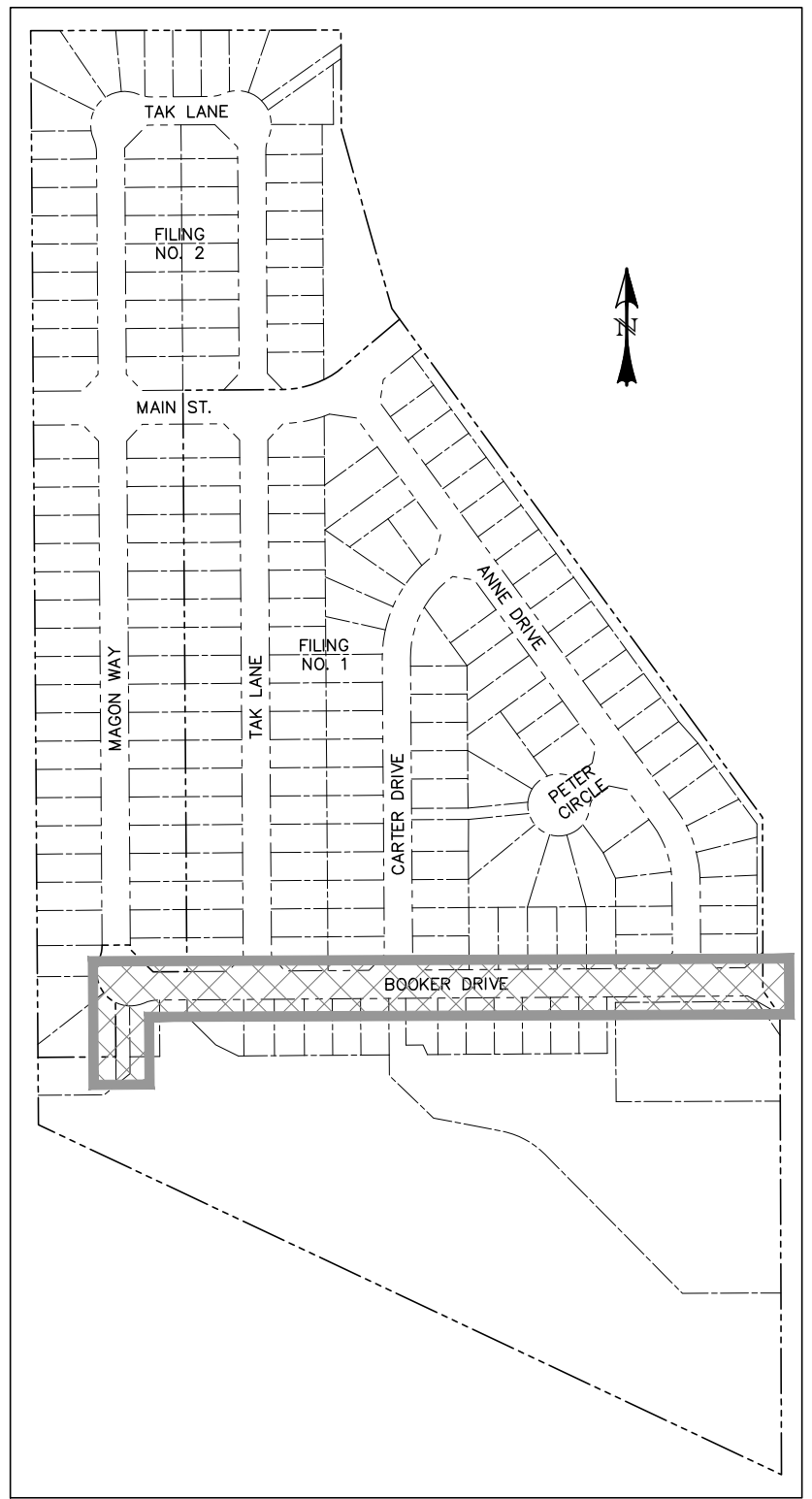
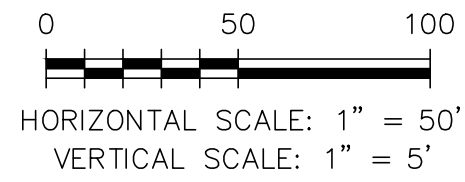
LINE TABLE		
LINE	BEARING	DISTANCE
L1	N66° 39' 45"W	81.02
L2	N89° 35' 49"E	106.06
L3	N89° 35' 49"E	9.18
L4	N0° 24' 11"W	125.00

LINE TABLE		
LINE	BEARING	DISTANCE
L5	S89° 35' 49"W	242.04
L6	S89° 35' 49"W	250.00
L7	N89° 35' 49"E	255.00
L8	N89° 35' 49"E	227.02

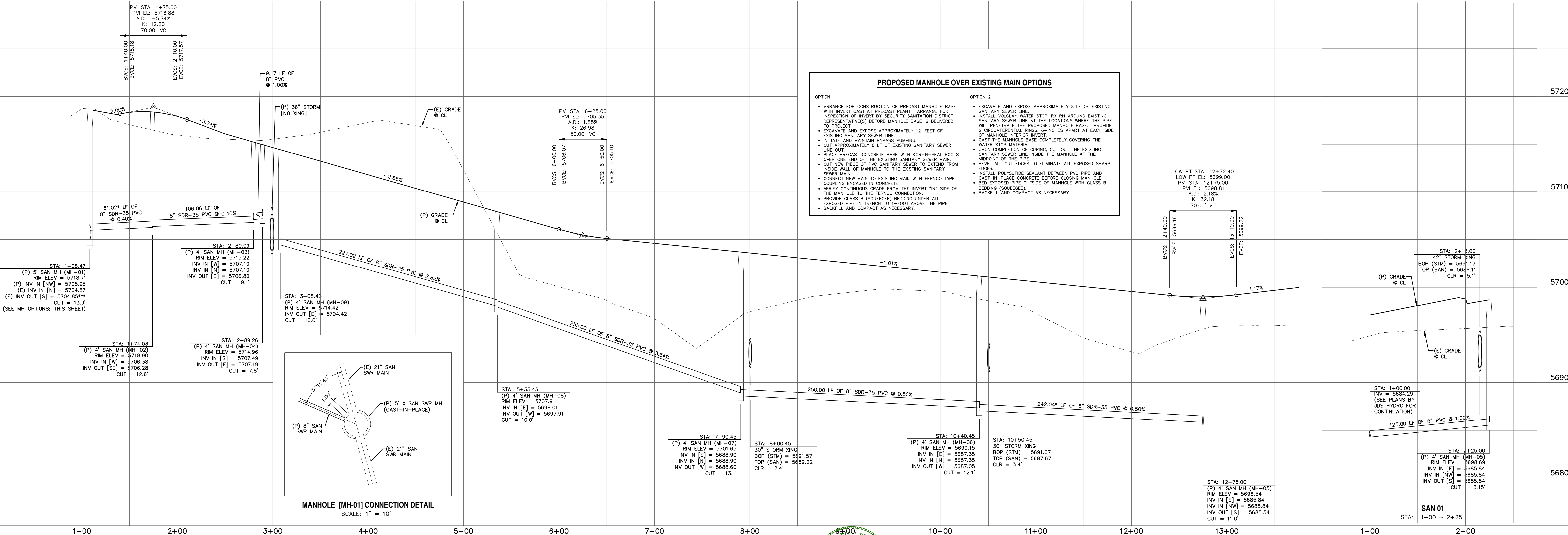
BOOKER DRIVE
STA: 1+00 ~ 12+75

NOTES:

- ALL PROPOSED SANITARY SEWER TO BE SDR-35 PVC.
- PIPE LENGTH DOES NOT EQUAL DIFFERENCE IN STATIONING.
- PLANS BY JDS HYDRO; SHOWN FOR REFERENCE.
- THE LOCATION OF ALL EXISTING UTILITIES (HORIZONTAL & VERTICAL) SHALL BE FIELD VERIFIED PRIOR TO BEGINNING OF CONSTRUCTION.



LOCATION MAP
SCALE: N.T.S.



REV.	DESCRIPTION	DATE
1	ADDRESS AGENCY COMMENTS	06/19/19



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STREET NAME ABBREVIATIONS:
MAIN STREET = S11
BOOKER DRIVE = S12
ANNE DRIVE = S13
CARTER DRIVE = S14
PETER CIRCLE = S15
TAK LANE = S16
MAGON WAY = S17
CUL-DE-SAC = FL

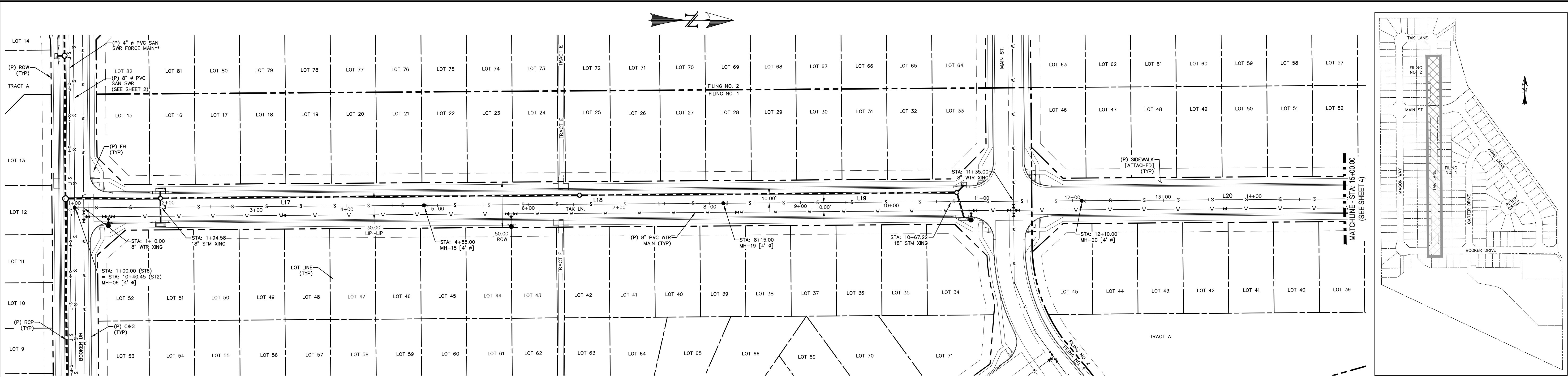
PREPARED FOR:
AVATAR EQUITIES, LLC
6800 JERICHO TURNPIKE
SUITE 120W #204
SYOSSET, NY 11791

PREPARED UNDER CONTRACT FOR AND BEHALF OF CATAMOUNT ENGINEERING.
DAVID L. MIGARES, LICENSED PROFESSIONAL ENGINEER NO. 40510
10/19/20
DATE



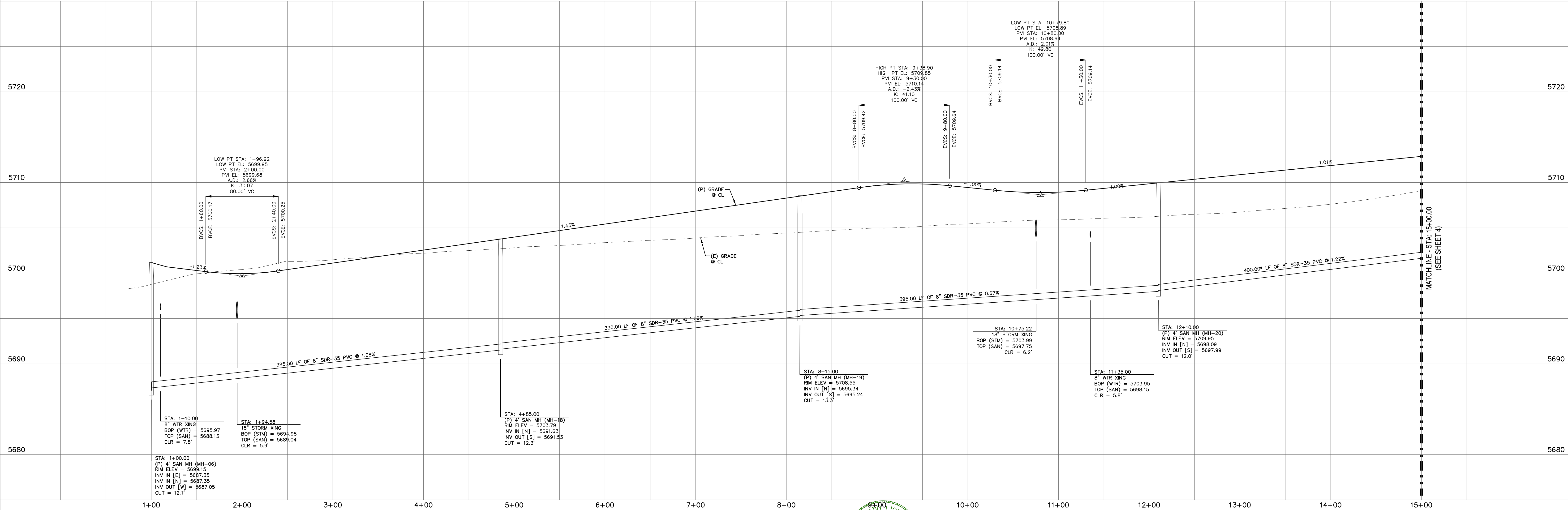
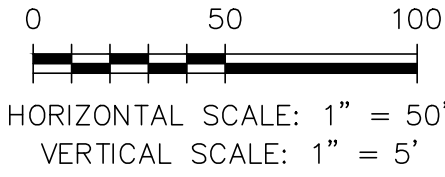
RIVERBEND
CROSSING
BOOKER BLVD
SANITARY SEWER PLAN & PROFILE

DESIGNED BY: MGP	DRAWN BY: MGP
SCALE: 1" = 50'	DATE: 10/19/20
JOB NUMBER	SHEET
17-114	4 OF 18



LINE TABLE		
LINE	BEARING	DISTANCE
L17	N0° 24' 10.53"W	385.00
L18	N0° 24' 10.53"W	330.00
L19	N0° 24' 10.53"W	395.00
L20	N0° 24' 10.53"W	400.00

- NOTES:**
- ALL PROPOSED SANITARY SEWER TO BE SDR-35 PVC.
 - PIPE LENGTH DOES NOT EQUAL DIFFERENCE IN STATIONING.
 - PLANS BY JDS HYDRO; SHOWN FOR REFERENCE.



REV.	DESCRIPTION	DATE
1	ADDRESS AGENCY COMMENTS	06/19/19

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STREET NAME ABBREVIATIONS:

MAIN STREET	= S11
BOOKER DRIVE	= S12
ANNE DRIVE	= S13
CARTER DRIVE	= S14
PETER CIRCLE	= S15
TAK LANE	= S16
WAGON WAY	= S17
CLL-DE-SAC - FL	= CDS

PREPARED FOR:

AVATAR EQUITIES, LLC

6800 JERICHO TURNPIKE
SUITE 120W #204
SYOSSET, NY 11791

PREPARED UNDER CONTRACT FOR AND BEHALF OF CATAMOUNT ENGINEERING.

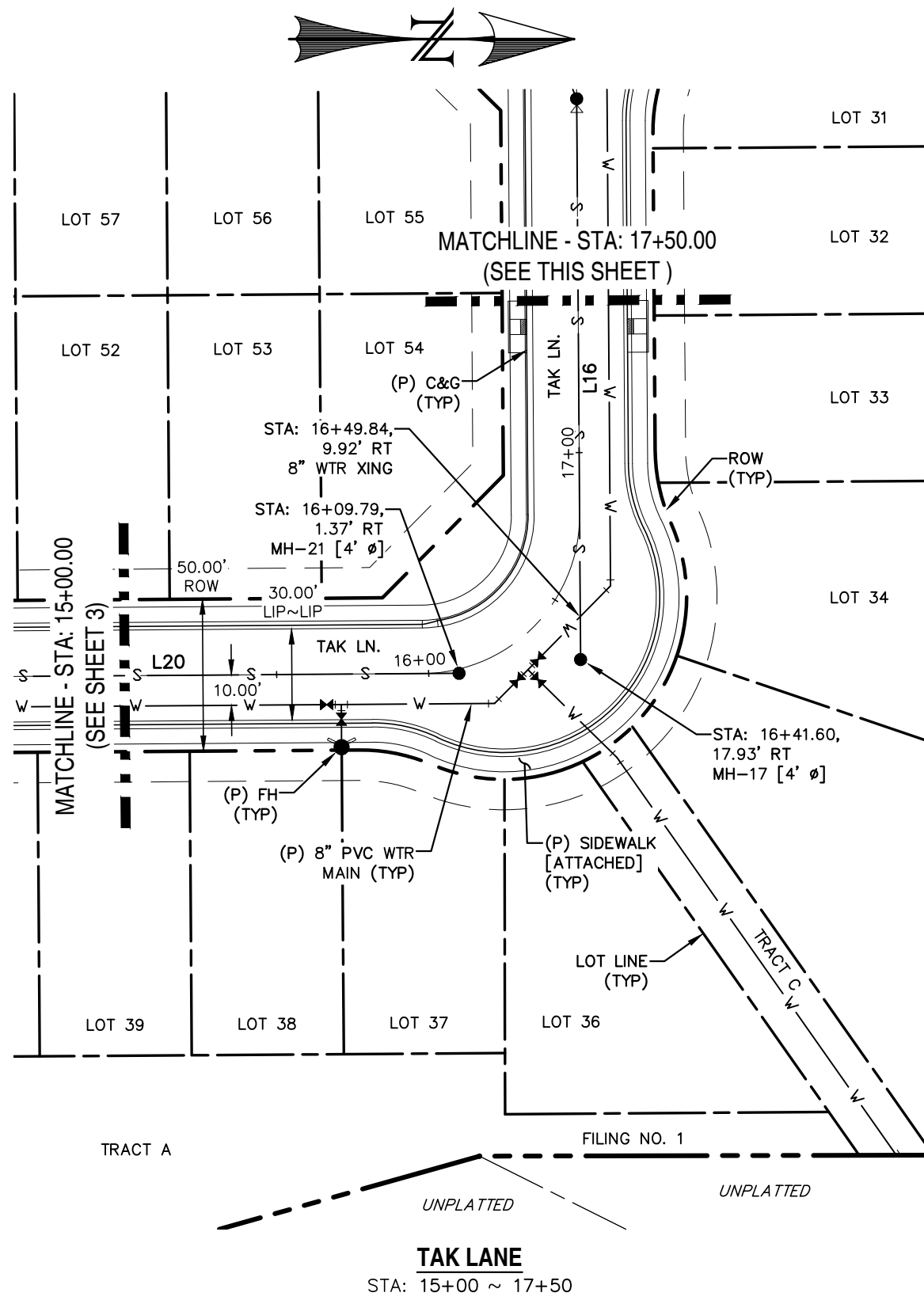
DAVID L. MIJARES, REGISTERED PROFESSIONAL ENGINEER NO. 40510

10/19/20
DATE

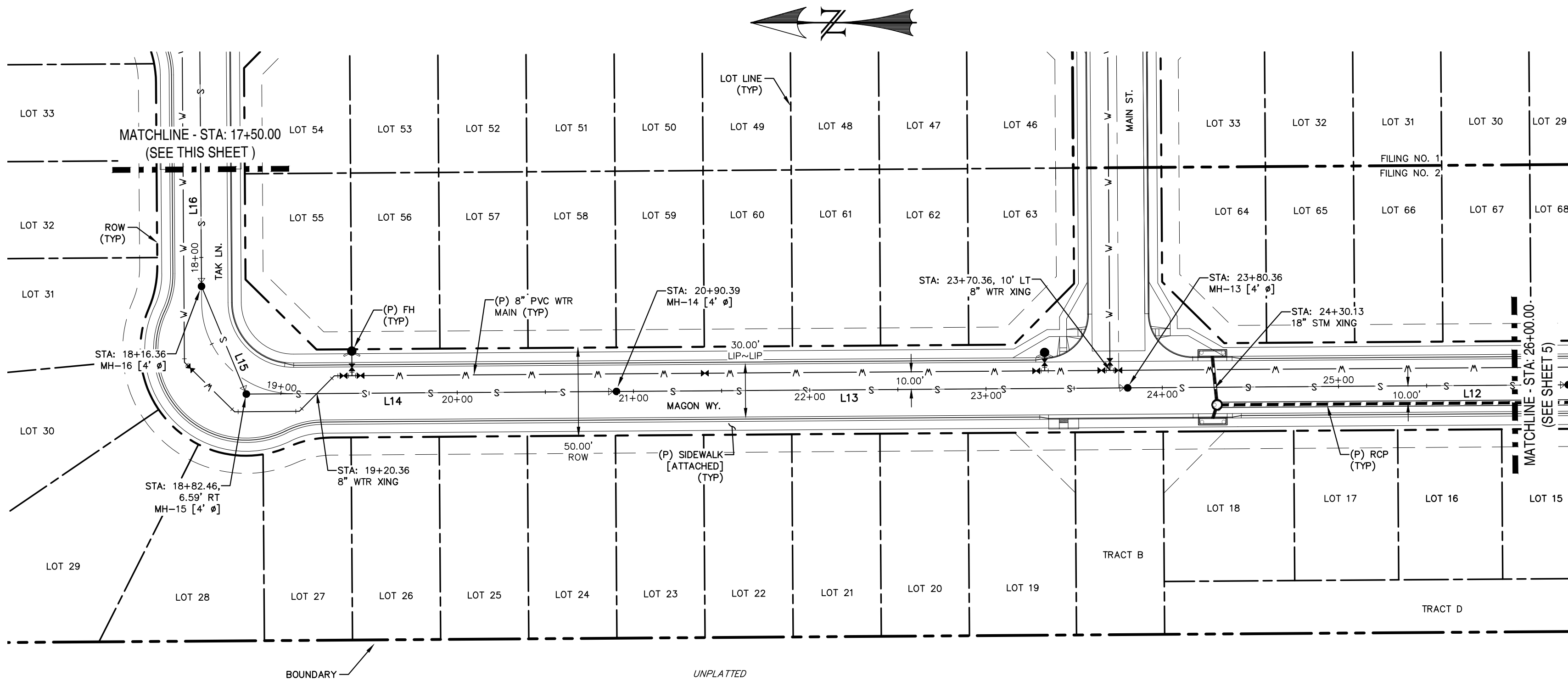
CATAMOUNT ENGINEERING
321 W. HENRIETTA AVE
PO BOX 221
WOODLAND PARK, CO 80866
(719) 428-2124

RIVERBEND CROSSING
TAK LANE
SANITARY SEWER PLAN & PROFILE

DESIGNED BY:	MGP	DRAWN BY:	MGP
SCALE:	1" = 50'	DATE:	10/19/20
JOB NUMBER	17-114	SHEET	5 OF 18

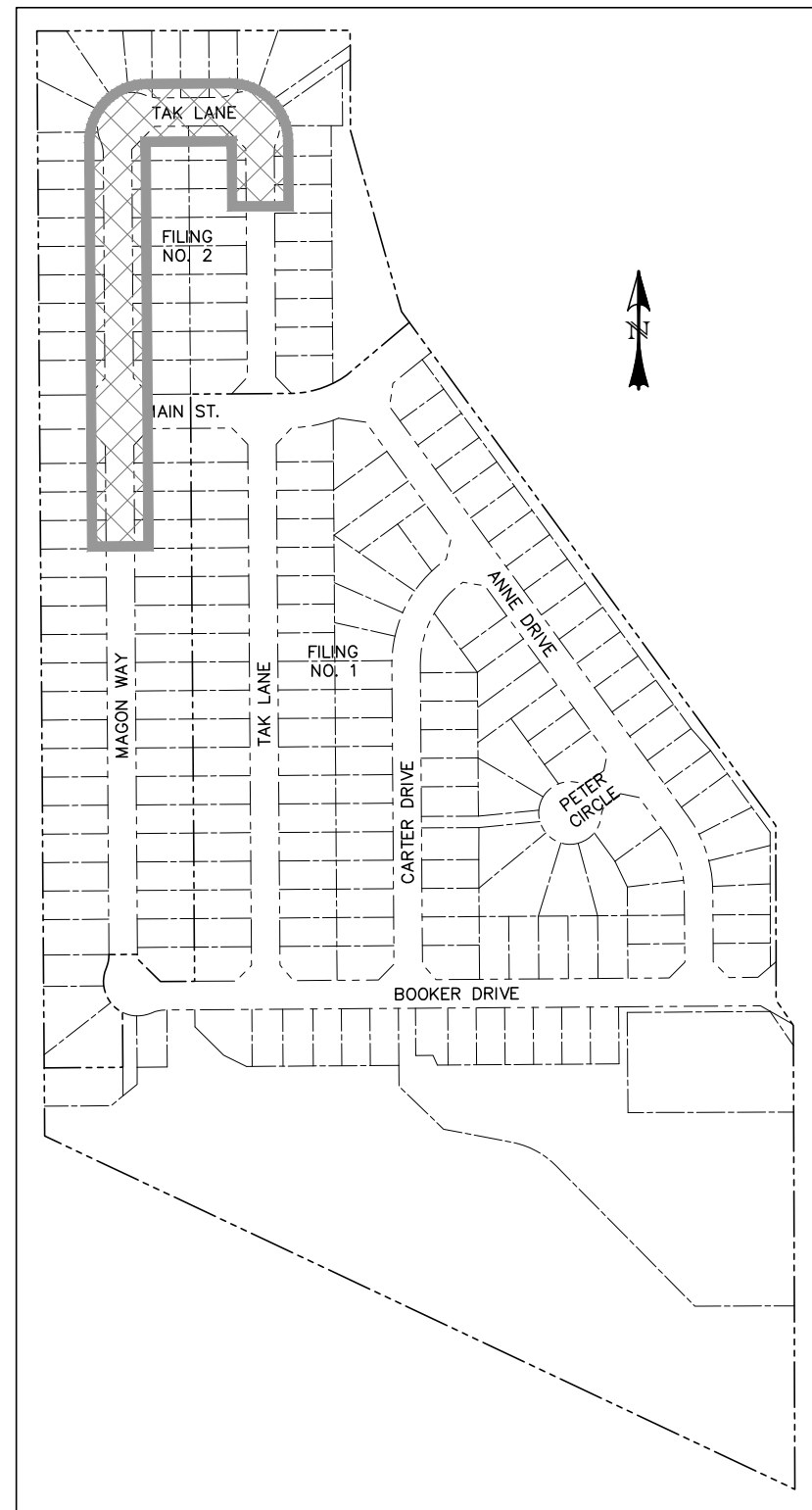
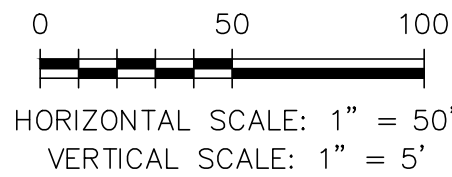


LINE	BEARING	DISTANCE
L12	N0° 24' 10.53"W	250.00
L13	N0° 24' 10.53"W	290.00
L14	N0° 24' 10.53"W	210.00
L15	N67° 25' 03.15"E	66.22
L16	N89° 35' 49.47"E	184.43
L20	N0° 24' 10.53"W	400.00

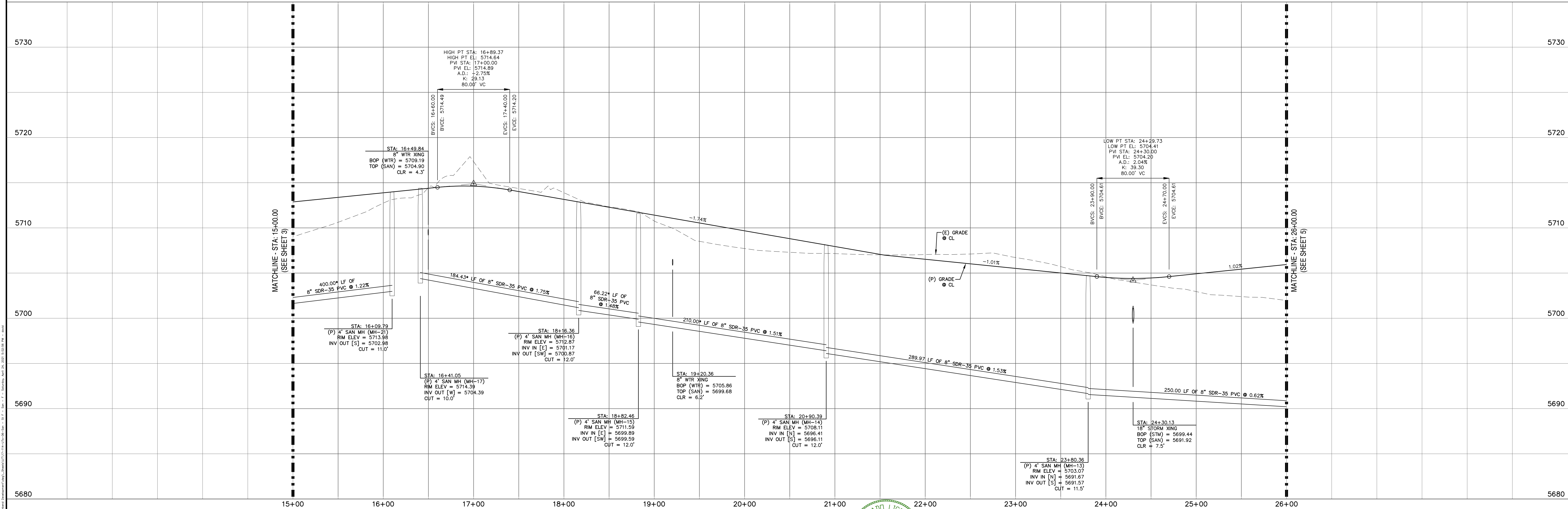


NOTES:


- ALL PROPOSED SANITARY SEWER TO BE SDR-35 PVC.
- PIPE LENGTH DOES NOT EQUAL DIFFERENCE IN STATIONING.



LOCATION MAP
SCALE: N.T.S.




REV.	DESCRIPTION	DATE
1	ADDRESS AGENCY COMMENTS	06/19/19



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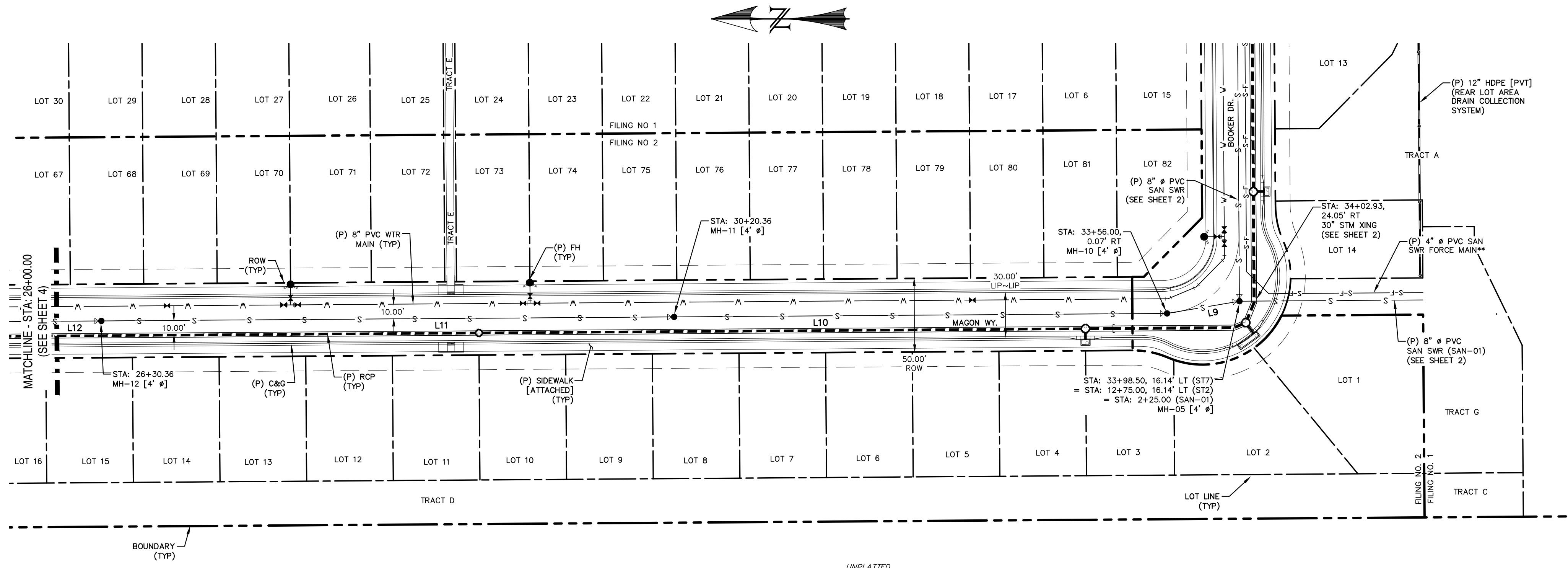
STREET NAME ABBREVIATIONS:	PREPARED FOR:	PREPARED UNDER:	DATE
MAIN STREET BOOKER DRIVE ANNE DRIVE PETER CIRCLE TAK LANE MAGON WAY CLL-DE-SAC - FL	AVATAR EQUITIES, LLC 6800 JERICHO TURNPIKE SUITE 120W #204 SYOSSET, NY 11791	DAVID L. MIJARES, LICENSED PROFESSIONAL ENGINEER 40510	10/19/20



CATAMOUNT ENGINEERING
321 W. HENRIETTA AVE
PO BOX 221
WOOLAND PARK, CO 80086
(719) 428-2124

DESIGNED BY:	MGP	DRAWN BY:	MGP
SCALE:	1" = 50'	DATE:	10/19/20
JOB NUMBER	17-114	SHEET	6 OF 18

RIVERBEND CROSSING
TAK LANE & MAGON WAY
SANITARY SEWER PLAN & PROFILE

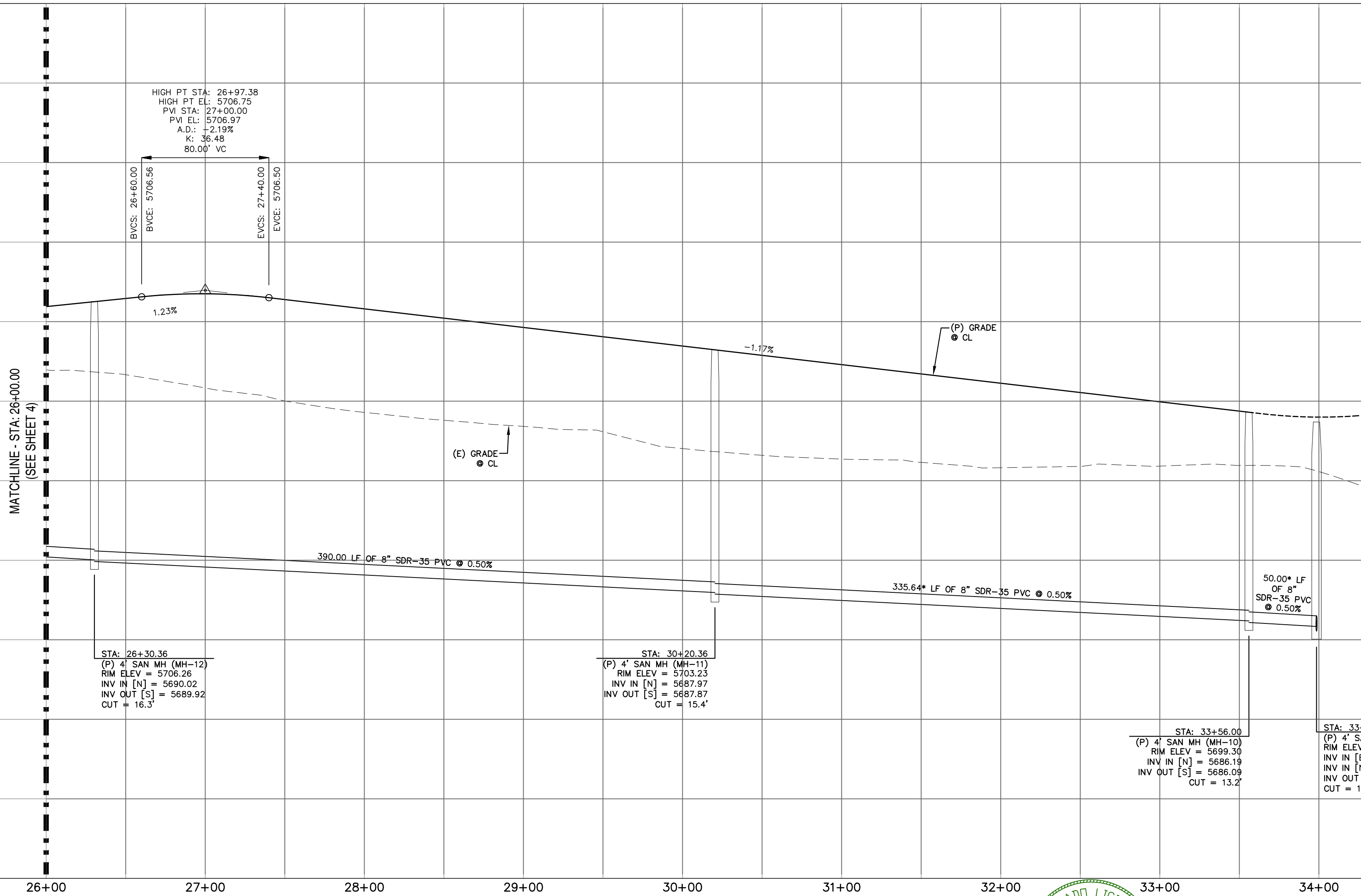
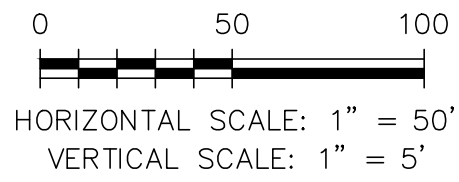


LINE TABLE		
LINE	BEARING	DISTANCE
L9	N9° 33' 41.17"W	50.00
L10	N0° 24' 10.53"W	335.64
L11	N0° 24' 10.53"W	390.00
L12	N0° 24' 10.53"W	250.00

MAGON WAY
STA: 26+50 ~ 36+00

NOTES:

- ALL PROPOSED SANITARY SEWER TO BE SDR-35 PVC.
- PIPE LENGTH DOES NOT EQUAL DIFFERENCE IN STATIONING.
- PLANS BY JDS HYDRO; SHOWN FOR REFERENCE.



REV.	DESCRIPTION	DATE
1	ADDRESS AGENCY COMMENTS	06/19/19



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STREET NAME ABBREVIATIONS:

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BOOKER DRIVE = S12
ANNE DRIVE = S13
CARTER DRIVE = S14
PETER CIRCLE = S15
TAK LANE = S16
MAGON WAY = S17
CUL-DE-SAC = FL

PREPARED FOR:

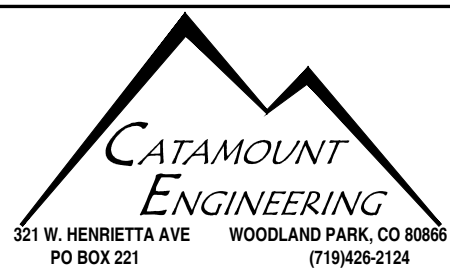
AVATAR EQUITIES, LLC

6800 JERICHO TURNPIKE
SUITE 120W #204
SYOSSET, NY 11791

PREPARED UNDER CONTRACT FOR AND BEHALF OF CATAMOUNT ENGINEERING.

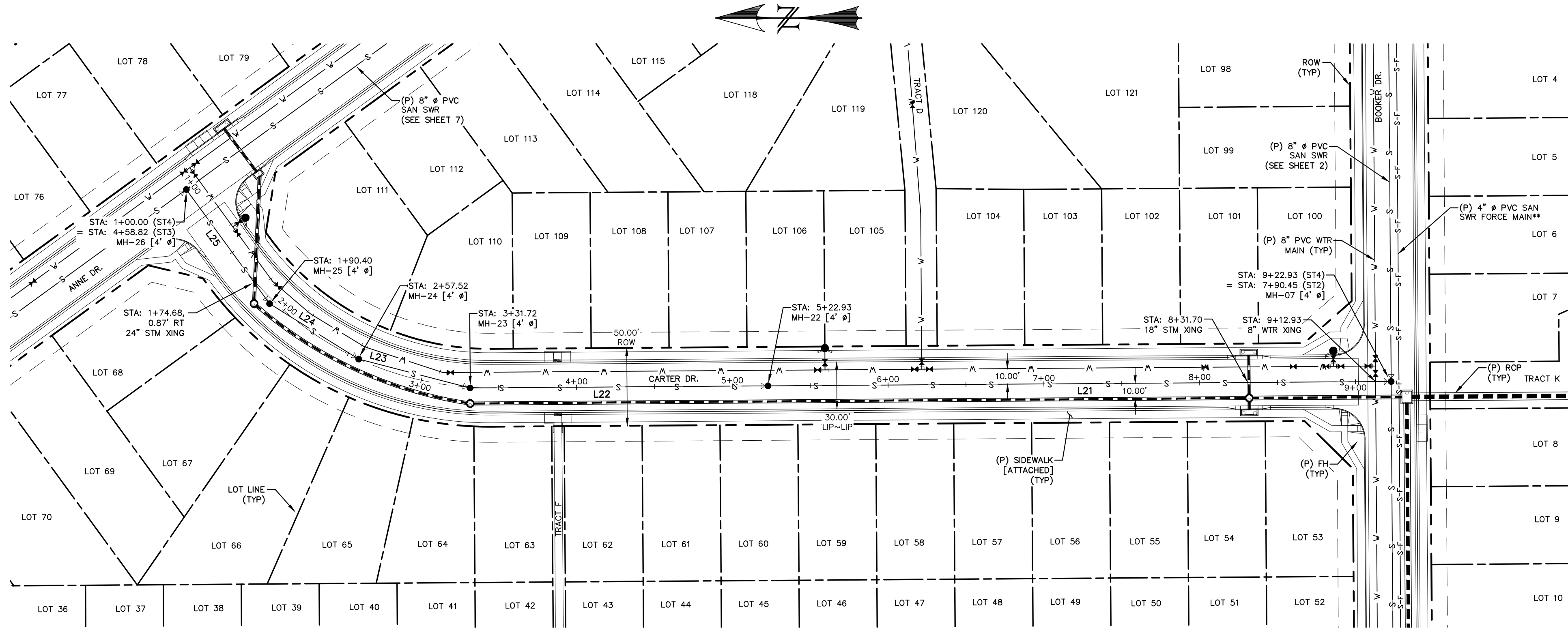
DAVID L. MIJARES, LICENSED PROFESSIONAL ENGINEER
40510

10/19/20
DATE



RIVERBEND
CROSSING
MAGON WAY
SANITARY SEWER PLAN & PROFILE

DESIGNED BY:	MGP	DRAWN BY:	MGP
SCALE:	1" = 50'	DATE:	10/19/20
JOB NUMBER	17-114	SHEET	7 OF 18



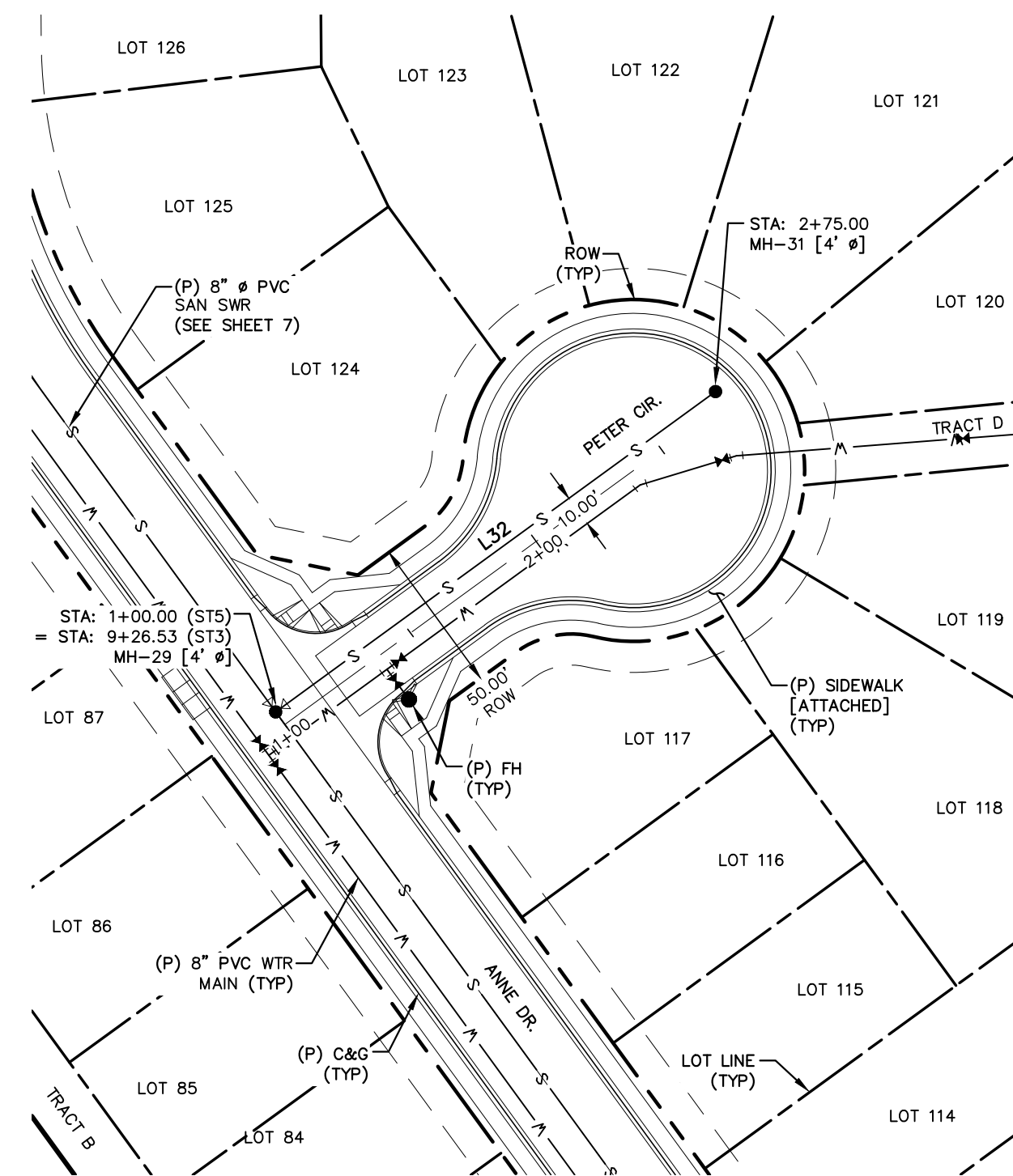
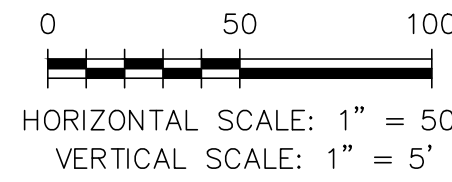
LINE TABLE		
LINE	BEARING	DISTANCE
L21	N0° 24' 10.53\"W	400.00
L22	N0° 24' 10.53\"W	191.23
L23	N14° 31' 58.87\"E	73.86

LINE TABLE		
LINE	BEARING	DISTANCE
L24	N31° 53' 38.12\"E	67.37
L25	N53° 54' 47.15\"E	90.75
L32	S53° 55' 25.22\"W	175.00

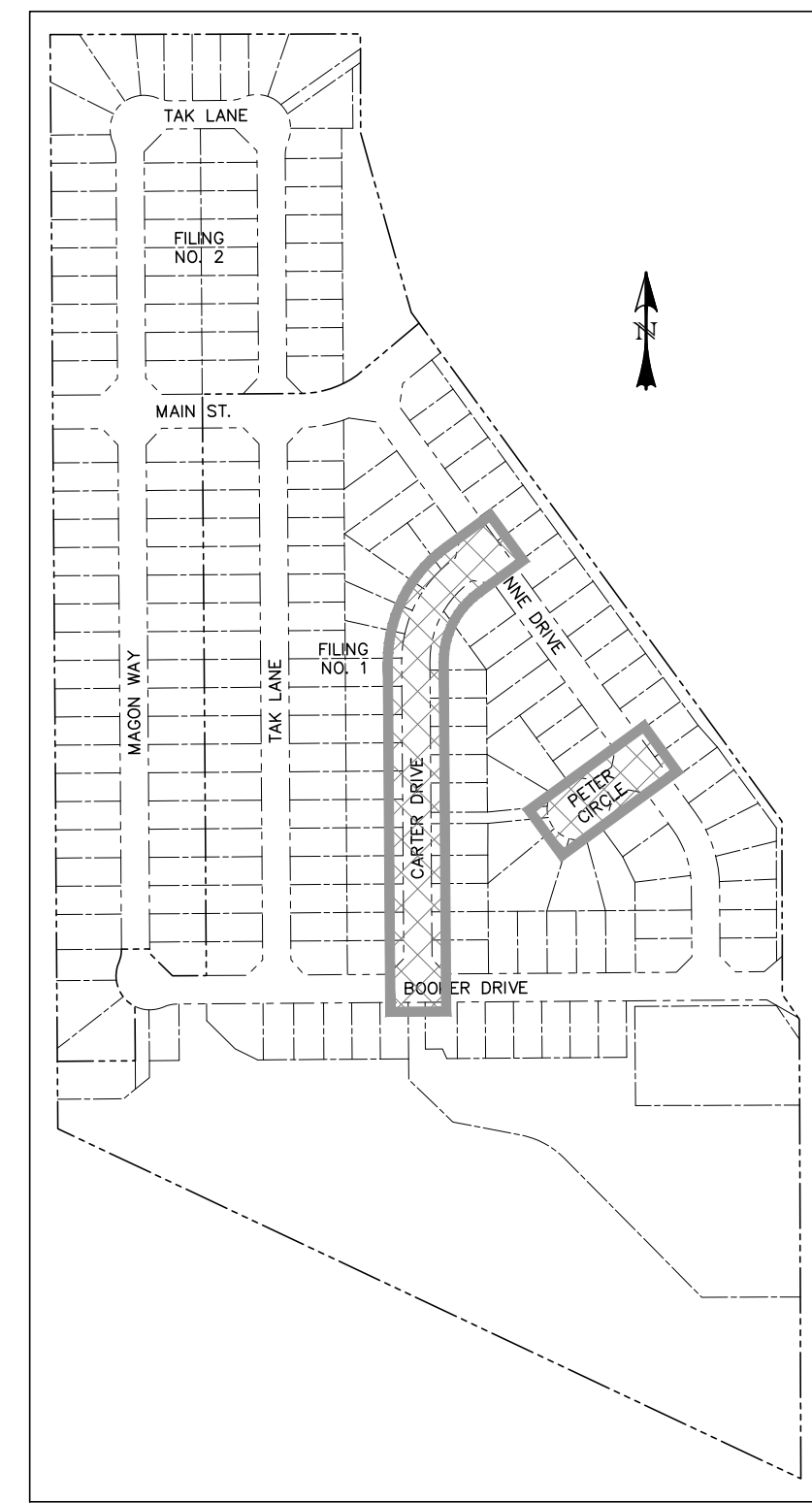
CARTER DRIVE
STA: 1+00 ~ 9+25

NOTES:

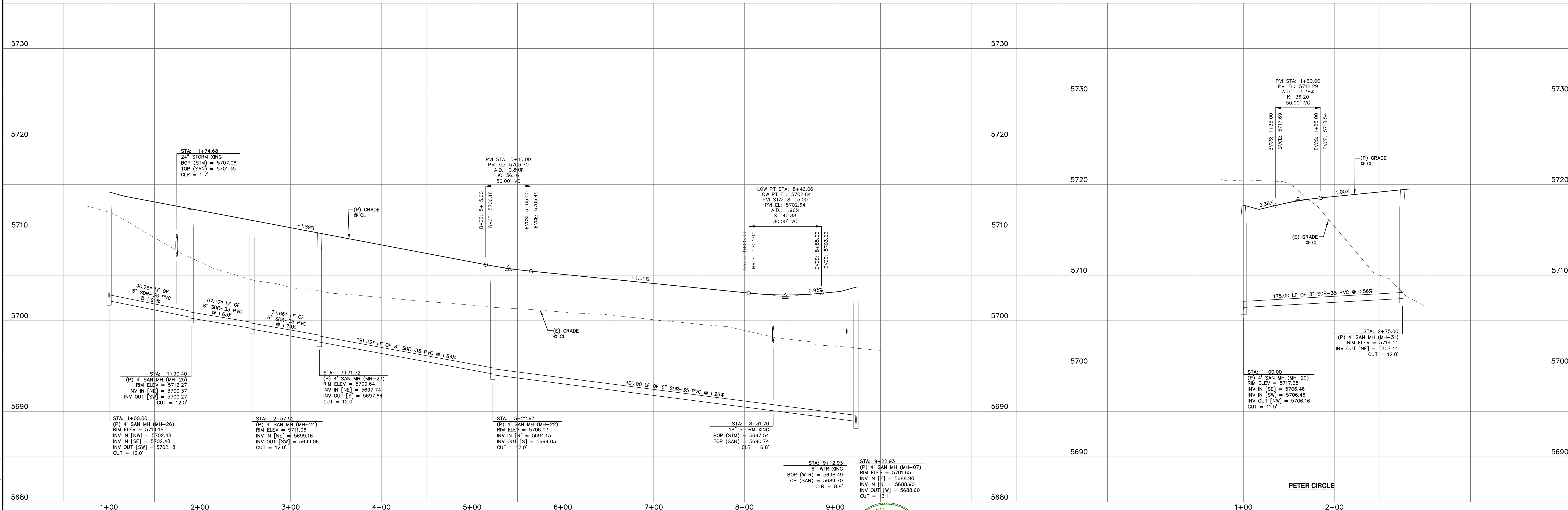
- ALL PROPOSED SANITARY SEWER TO BE SDR-35 PVC.
- PIPE LENGTH DOES NOT EQUAL DIFFERENCE IN STATIONING.
- PLANS BY JDS HYDRO; SHOWN FOR REFERENCE.



PETER CIRCLE
STA: 1+00 ~ 3+00



LOCATION MAP
SCALE: N.T.S.



REV.	DESCRIPTION	DATE
1	ADDRESS AGENCY COMMENTS	06/19/19

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ANNE DRIVE = S13
CARTER DRIVE = S14
PETER CIRCLE = S15
TAK LANE = S16
MAGON WAY = S17
CUL-DE-SAC = FL

PREPARED FOR:
AVATAR EQUITIES, LLC

6800 JERICHO TURNPIKE
SUITE 120W #204
SYOSSET, NY 11791

PREPARED UNDER CONTRACT FOR AND BEHALF OF CATAMOUNT ENGINEERING.

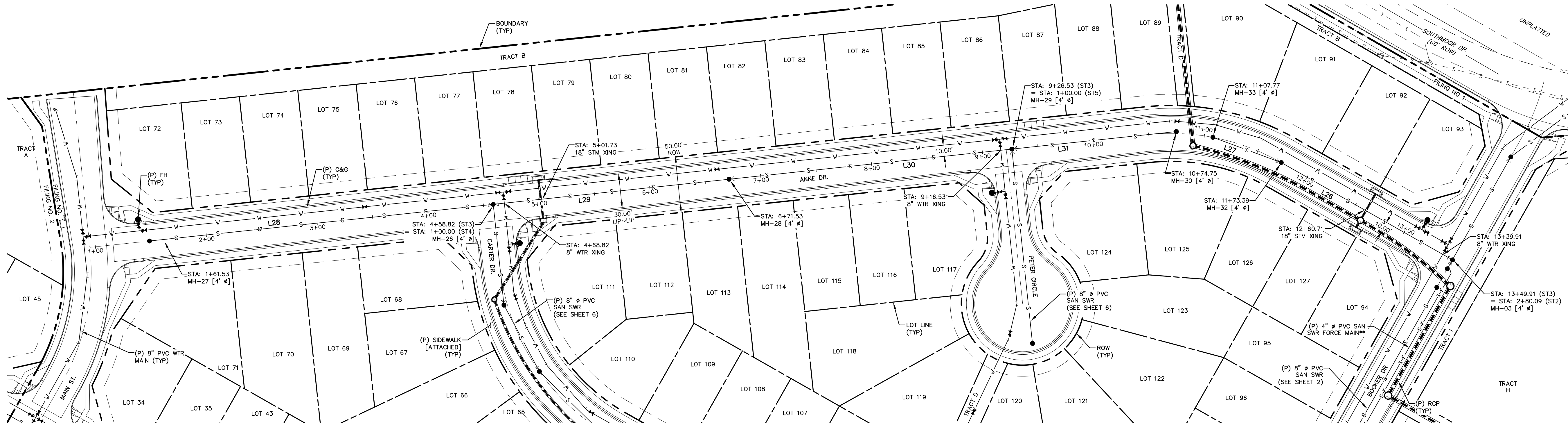
DAVID L. MIJARES, LICENSED PROFESSIONAL ENGINEER
40510

10/19/20
DATE

CATAMOUNT ENGINEERING
321 W. HENRIETTA AVE
PO BOX 221
WOODLAND PARK, CO 80866
(719) 428-2124

RIVERBEND CROSSING
CARTER DRIVE & PETER CIRCLE
SANITARY SEWER PLAN & PROFILE

DESIGNED BY: MGP
SCALE: 1" = 50'
JOB NUMBER: 17-114
DRAWN BY: MGP
DATE: 10/19/20
SHEET: 8 OF 18



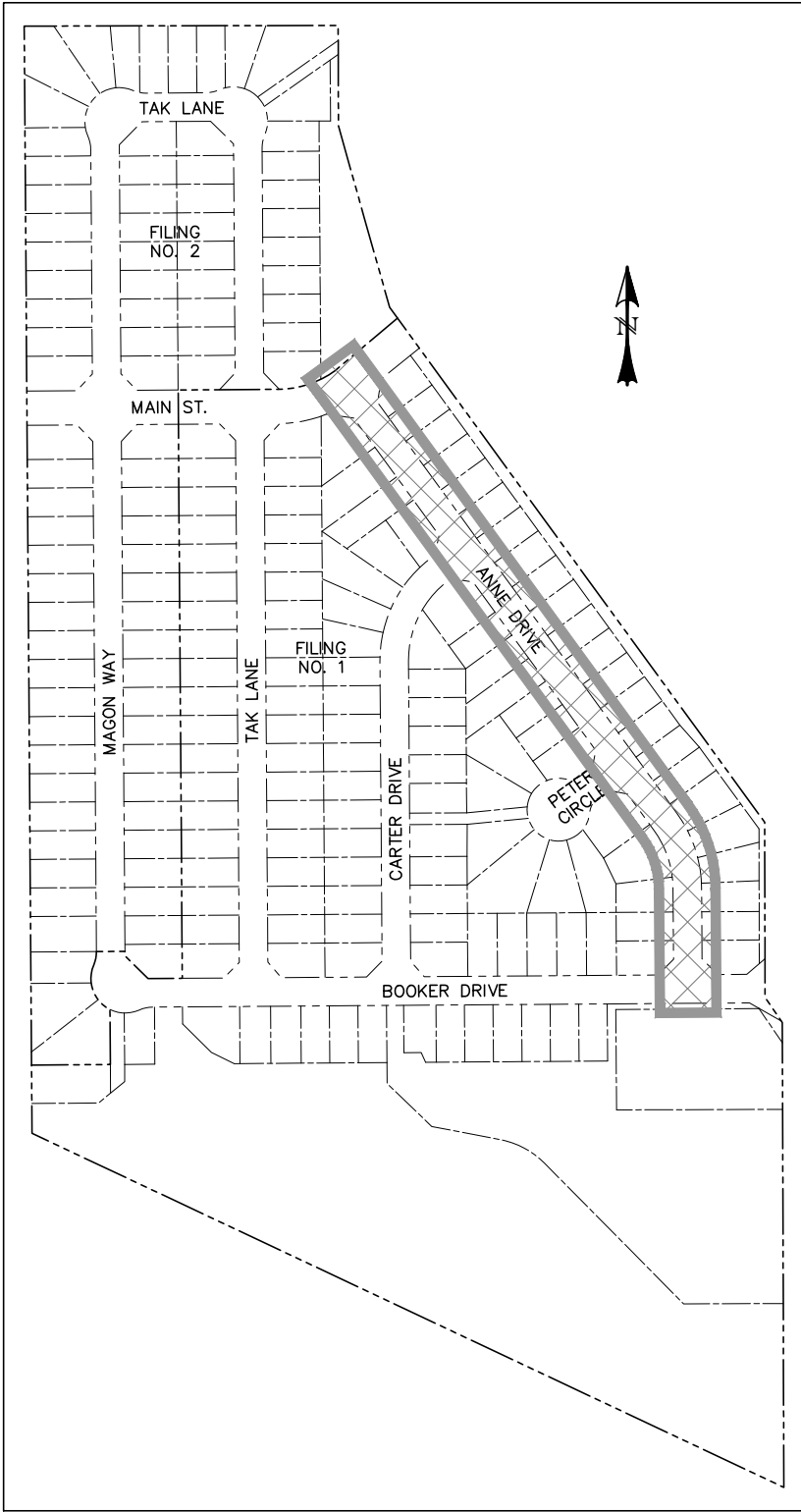
LINE TABLE		
LINE	BEARING	DISTANCE
L26	N0° 24' 10.53"W	160.00
L27	S9° 48' 07.66"E	65.32
L28	S36° 04' 34.78"E	297.30

LINE TABLE		
LINE	BEARING	DISTANCE
L29	S36° 04' 34.78"E	212.70
L30	S36° 04' 34.78"E	255.00
L31	N36° 04' 34.78"W	148.37

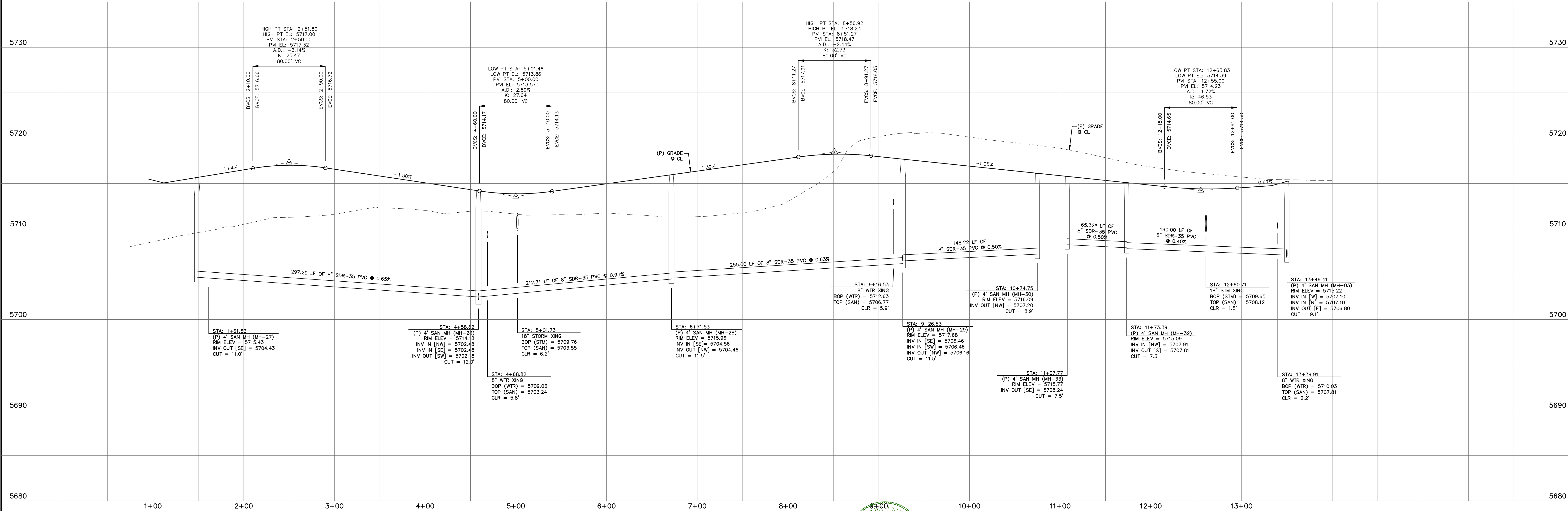
ANNE DRIVE
STA: 1+00 ~ 13+40

- NOTES:
- ALL PROPOSED SANITARY SEWER TO BE SDR-35 PVC.
 - PIPE LENGTH DOES NOT EQUAL DIFFERENCE IN STATIONING.
 - PLANS BY JDS HYDRO; SHOWN FOR REFERENCE.

0 50 100
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'



LOCATION MAP
SCALE: N.T.S.



REV.	DESCRIPTION	DATE
1	ADDRESS AGENCY COMMENTS	06/19/19

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ANNE DRIVE = S13
CARTER DRIVE = S14
PETER CIRCLE = S15
TAK LANE = S16
MAZON WAY = S17
CUL-DE-SAC = FL

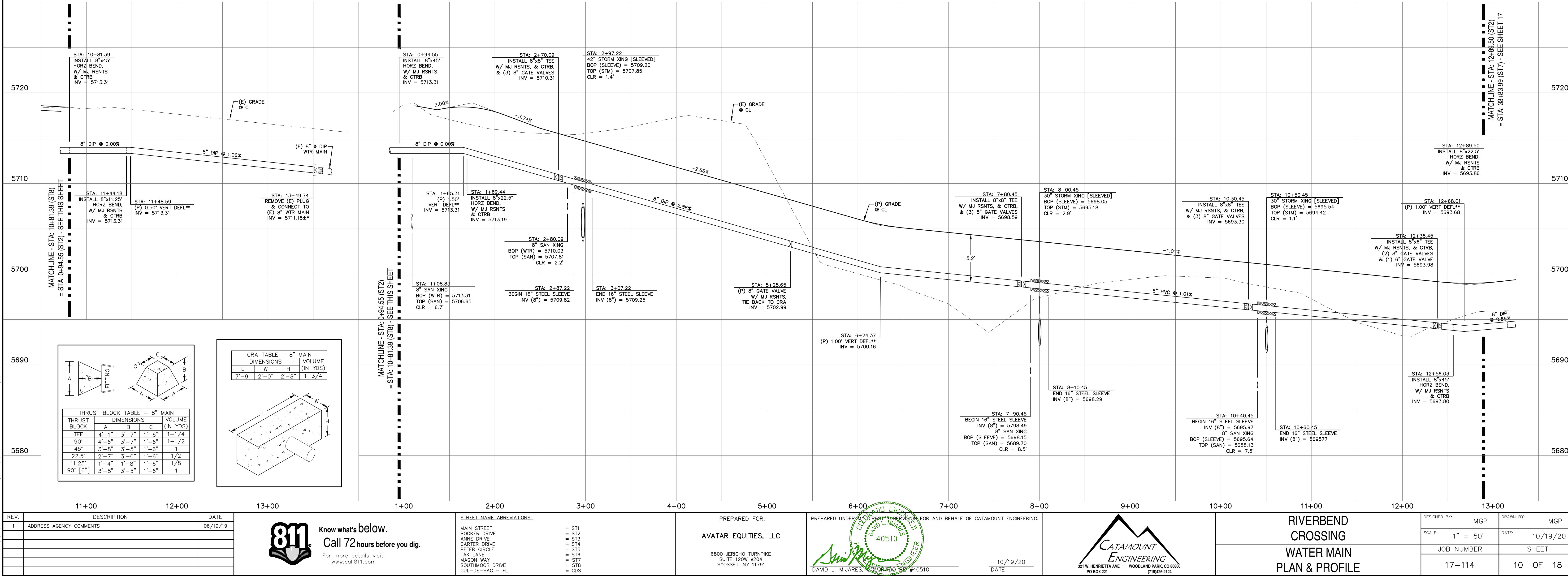
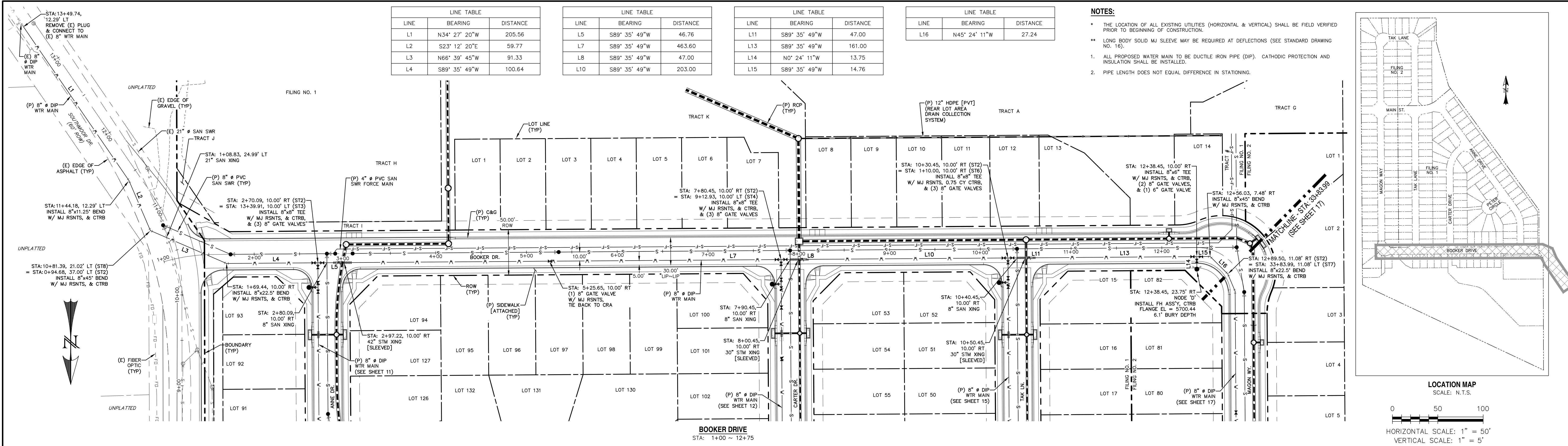
PREPARED FOR:
AVATAR EQUITIES, LLC
6800 JERICHO TURNPIKE
SUITE 120W #204
SYOSSET, NY 11791

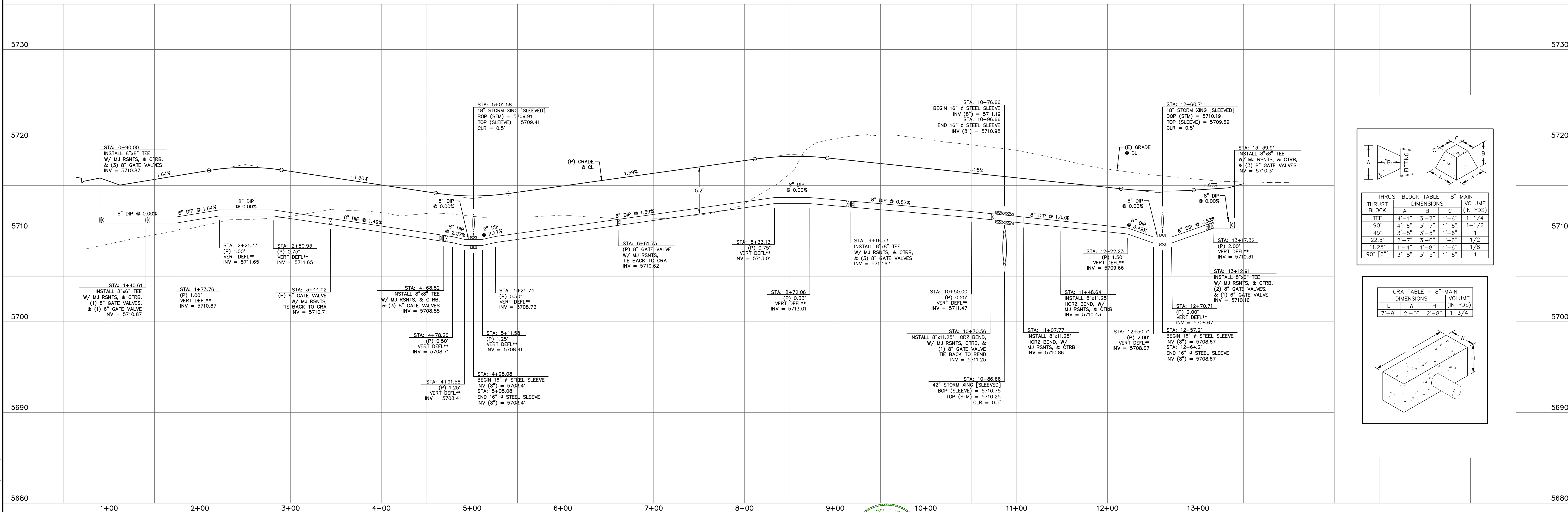
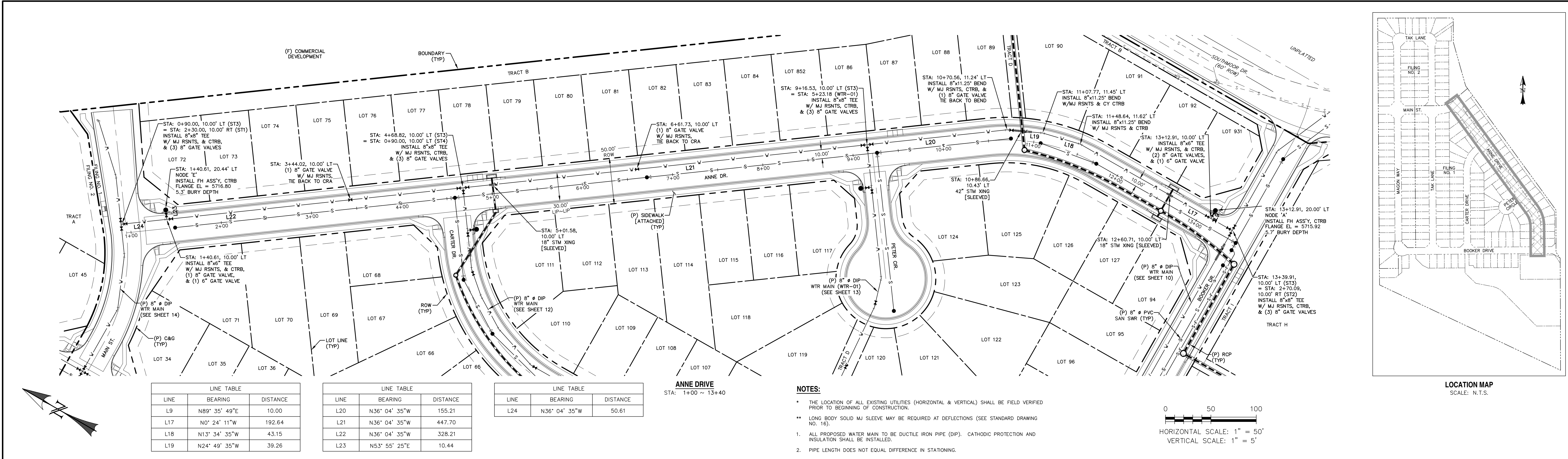
PREPARED UNDER CONTRACT FOR AND BEHALF OF CATAMOUNT ENGINEERING.
DAVID L. MIJARES, LICENSED PROFESSIONAL ENGINEER #40510
10/19/20
DATE



RIVERBEND
CROSSING
ANNE DRIVE
SANITARY SEWER PLAN & PROFILE

DESIGNED BY: MGP	DRAWN BY: MGP
SCALE: 1" = 50'	DATE: 10/19/20
JOB NUMBER	SHEET
17-114	9 OF 18





REV.

DESCRIPTION

DATE

1

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STREET NAME ABBREVIATIONS:

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CARTER DRIVE = S14

PETER CIRCLE = S15

TAK LANE = S16

MAGON WAY = S17

CUL-DE-SAC - FL = CDS

PREPARED FOR:

AVATAR EQUITIES, LLC

6800 JERICHO TURNPIKE
SUITE 120W #204
SYOSSET, NY 11791

PREPARED UNDER CONTRACT FOR AND BEHALF OF CATAMOUNT ENGINEERING.

DAVID L. MIJARES

40510

10/19/20
DATE

CATAMOUNT ENGINEERING

321 W. HENRIETTA AVE
PO BOX 221

WOOLAND PARK, CO 80086
(719) 428-2124

RIVERBEND CROSSING
WATER MAIN
PLAN & PROFILE

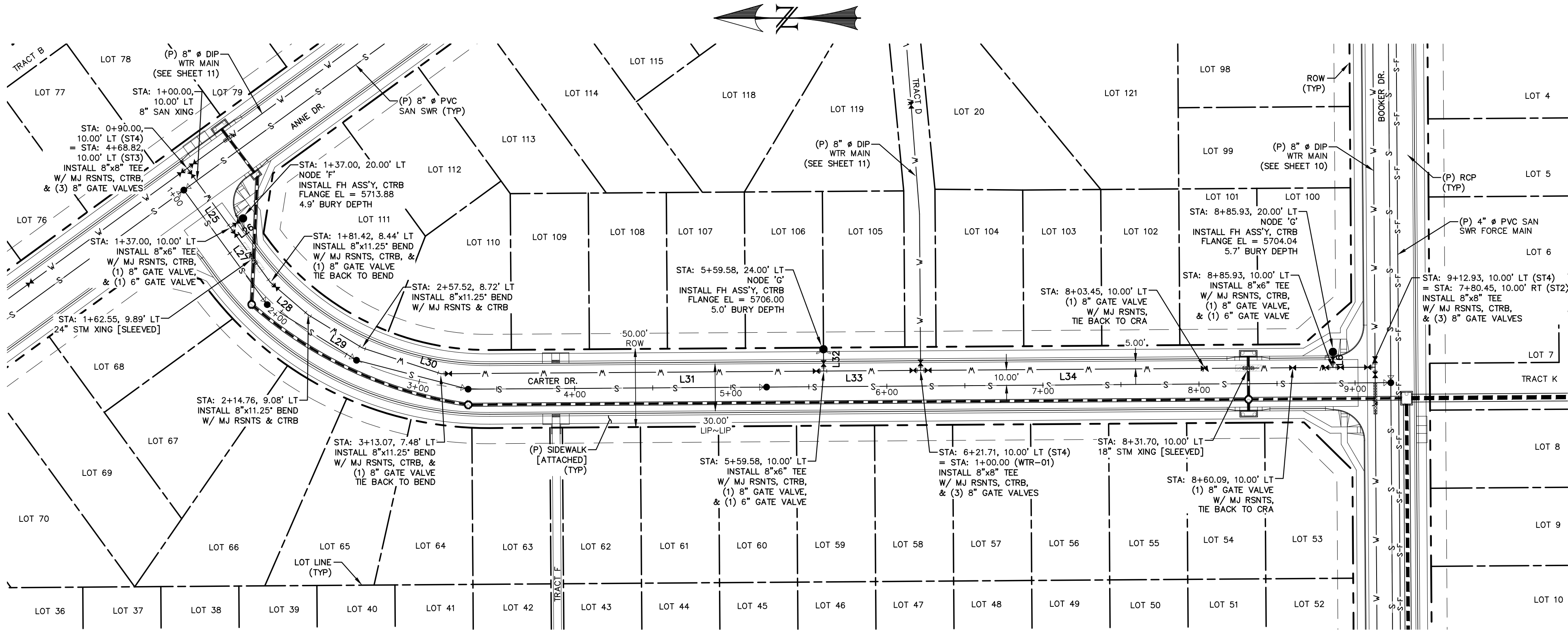
DESIGNED BY: MGP
SCALE: 1" = 50'
JOB NUMBER: 17-114

DRAWN BY: MGP
DATE: 10/19/20
SHEET: 11 OF 18

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LINE TABLE		
LINE	BEARING	DISTANCE
L6	N89° 35' 49"E	10.00
L25	S53° 55' 25"W	47.00
L26	S36° 04' 35"E	10.00
L27	S53° 55' 25"W	43.27
L28	S40° 40' 25"W	31.86
L29	S31° 25' 25"W	40.78
L30	S18° 10' 25"W	53.14
L31	S0° 24' 11"E	245.16
L32	N89° 35' 49"E	14.00
L33	S0° 24' 11"E	62.13
L34	S0° 24' 11"E	291.22



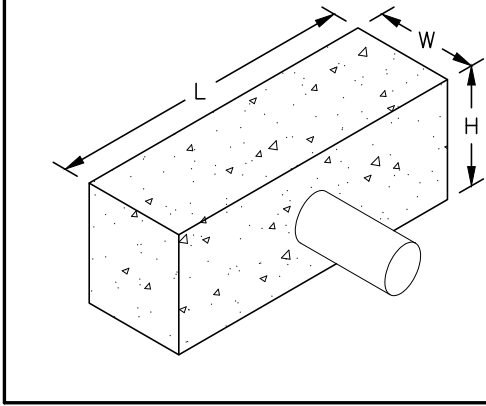
CARTER DRIVE
STA: 1+00 ~ 9+25

NOTES:

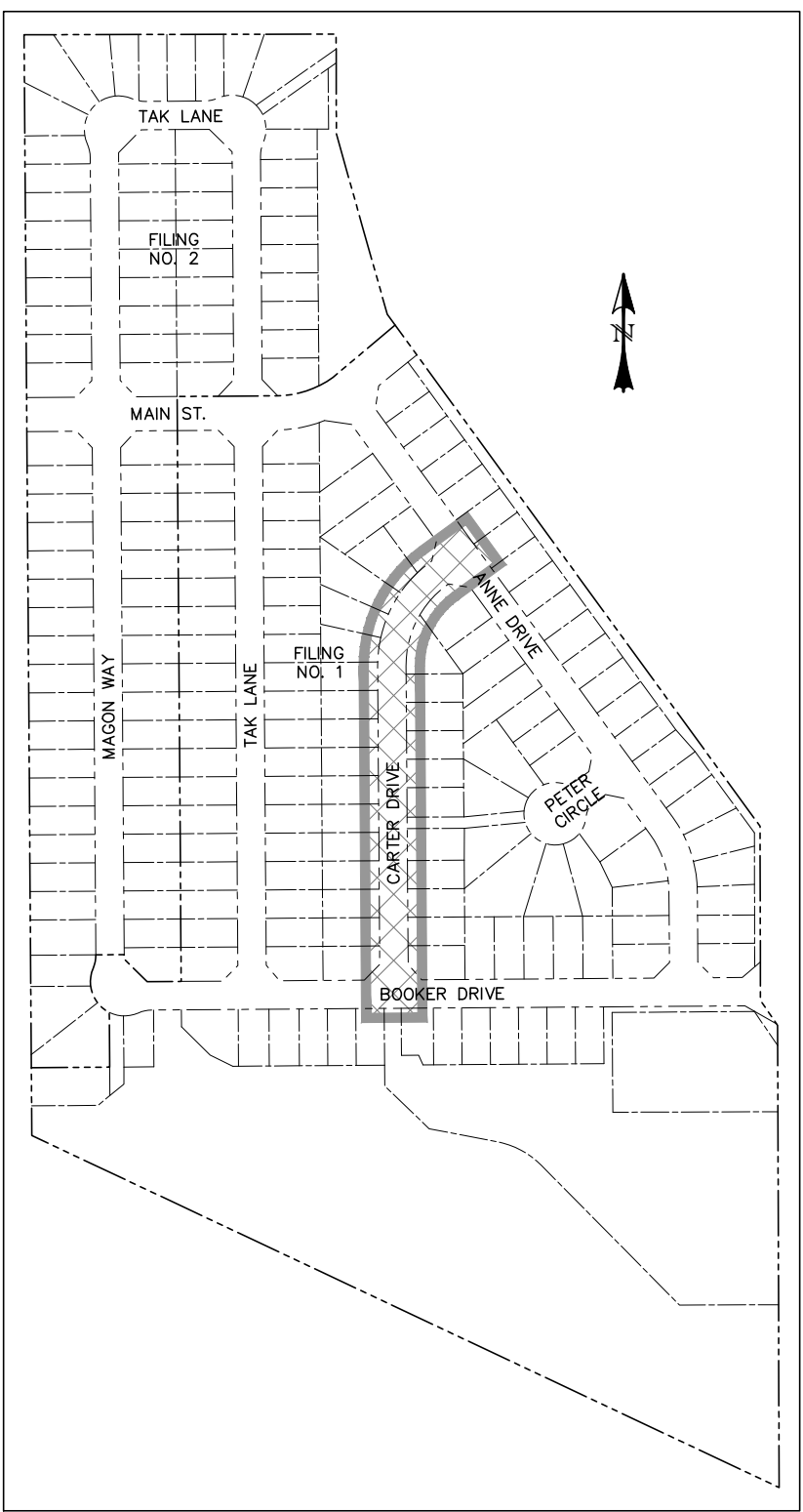
- THE LOCATION OF ALL EXISTING UTILITIES (HORIZONTAL & VERTICAL) SHALL BE FIELD VERIFIED PRIOR TO BEGINNING OF CONSTRUCTION.
- LONG BODY SOLID MJ SLEEVE MAY BE REQUIRED AT DEFLECTIONS (SEE STANDARD DRAWING NO. 16).
- ALL PROPOSED WATER MAIN TO BE DUCTILE IRON PIPE (DIP). CATHODIC PROTECTION AND INSULATION SHALL BE INSTALLED.
- PIPE LENGTH DOES NOT EQUAL DIFFERENCE IN STATIONING.

THRUST BLOCK TABLE - 8" MAIN			
THRUST BLOCK	DIMENSIONS		
	A	B	C
TEE	4'-1"	3'-7"	1'-6"
90°	4'-6"	3'-7"	1'-6"
45°	3'-8"	3'-5"	1'-6"
22.5°	2'-7"	3'-0"	1'-6"
11.25°	1'-4"	1'-8"	1'-6"
90° [6"]	3'-8"	3'-5"	1'-6"

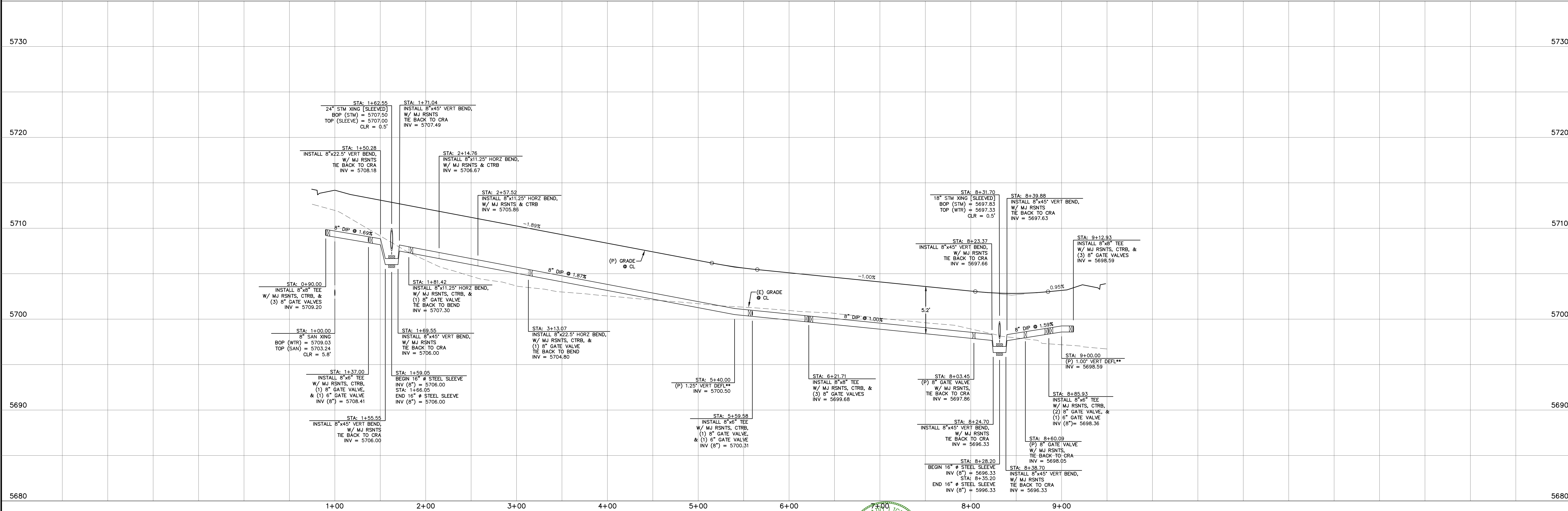
CRA TABLE - 8" MAIN			
DIMENSIONS			VOLUME (IN YDS)
L	W	H	
7'-9"	2'-0"	2'-8"	1-3/4



0 50 100
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'



LOCATION MAP
SCALE: N.T.S.



REV.	DESCRIPTION	DATE
1	ADDRESS AGENCY COMMENTS	06/19/19



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- = S12
- = S13
- = S14
- = S15
- = S16
- = S17
- = CDS

PREPARED FOR:
AVATAR EQUITIES, LLC
6800 JERICHO TURNPIKE
SUITE 120W #204
SYOSSET, NY 11791

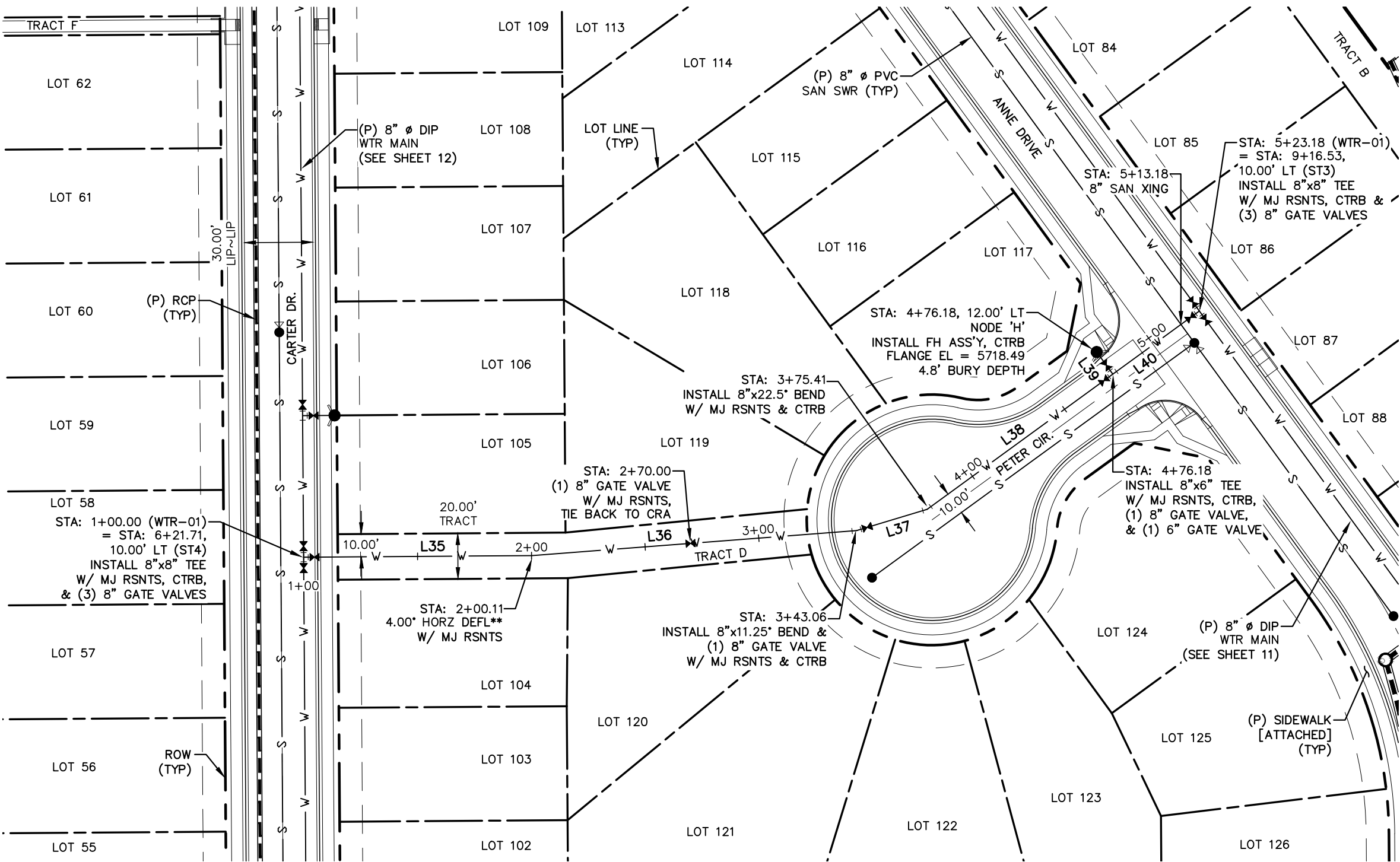
PREPARED UNDER CONTRACT FOR AND BEHALF OF CATAMOUNT ENGINEERING.
DAVID L. MIJARES, LICENSED PROFESSIONAL ENGINEER NO. 40510
10/19/20
DATE



RIVERBEND
CROSSING
WATER MAIN
PLAN & PROFILE

DESIGNED BY: MGP	DRAWN BY: MGP
SCALE: 1" = 50'	DATE: 10/19/20
JOB NUMBER	SHEET
17-114	12 OF 18

LINE TABLE		
LINE	BEARING	DISTANCE
L35	N89° 35' 49"E	100.11
L36	N85° 35' 49"E	142.95
L37	N73° 12' 02"E	32.35
L38	N53° 55' 25"E	100.76
L39	N36° 04' 35"W	12.00
L40	N53° 55' 25"E	47.00



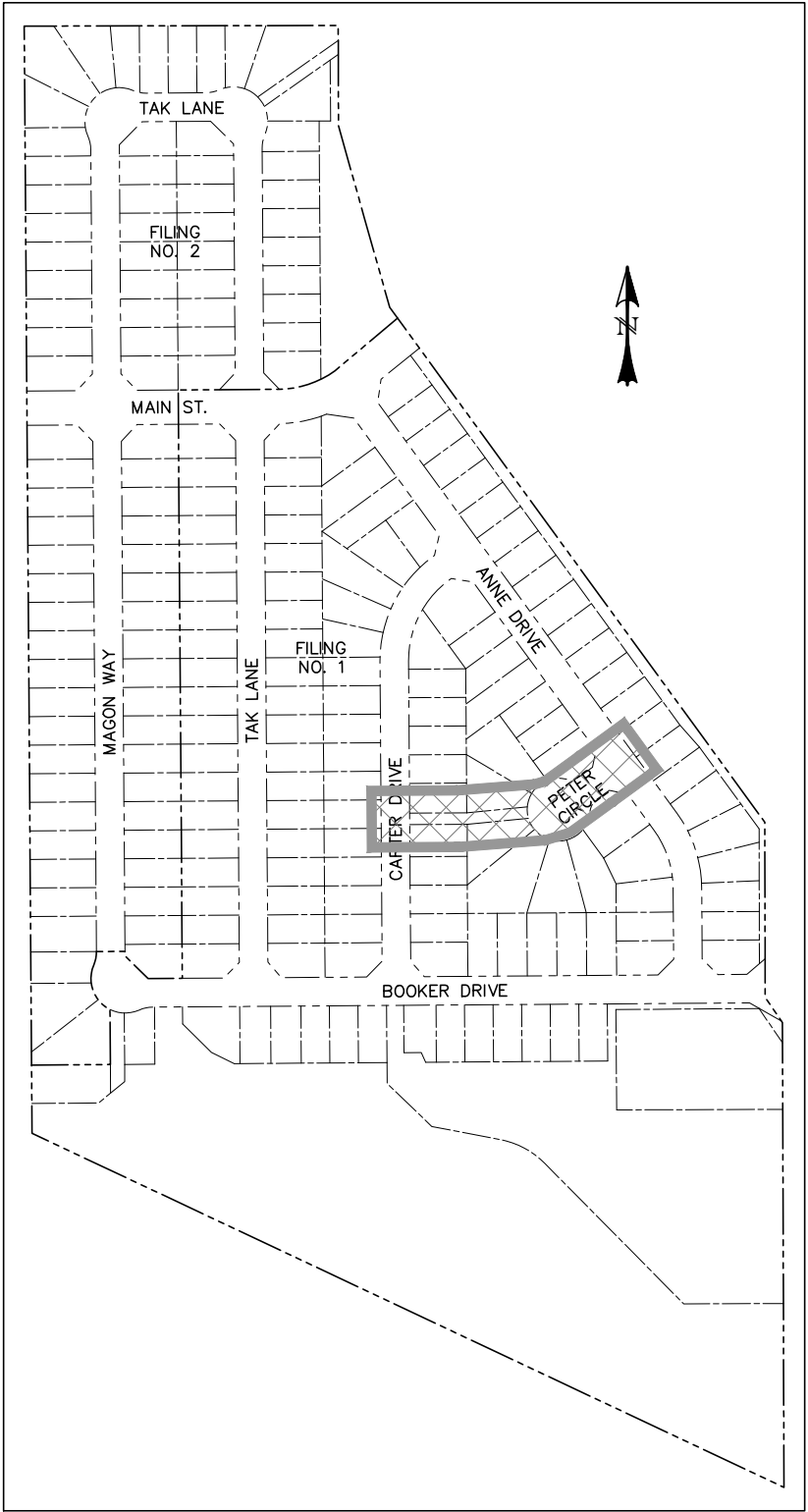
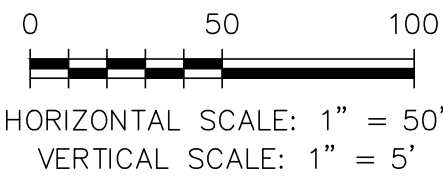
WTR-01
STA: 1+00 ~ 5+25

NOTES:

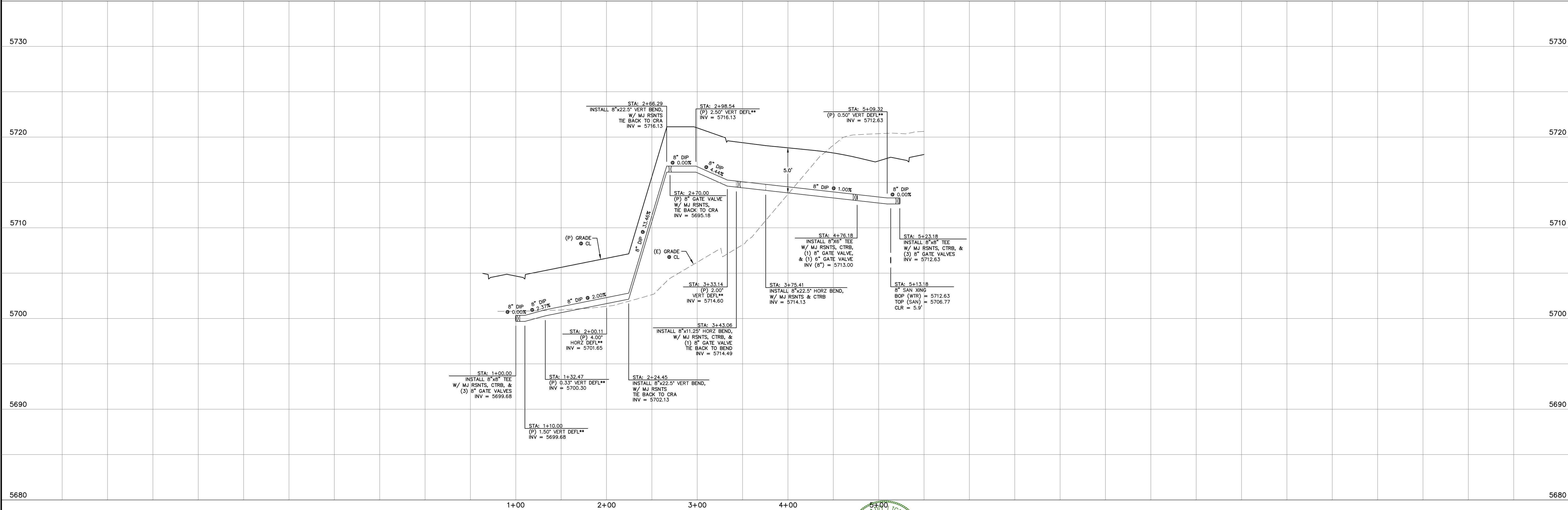
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- 2. PIPE LENGTH DOES NOT EQUAL DIFFERENCE IN STATIONING.

THRUST BLOCK TABLE - 8" MAIN				
THRUST BLOCK	DIMENSIONS			VOLUME (IN YDS)
	A	B	C	
TEE	4'-1"	3'-7"	1'-6"	1-1/4
90°	4'-6"	3'-7"	1'-6"	1-1/2
45°	3'-8"	3'-5"	1'-6"	1
22.5°	2'-7"	3'-0"	1'-6"	1/2
11.25°	1'-4"	1'-8"	1'-6"	1/8
90° [6"]	3'-8"	3'-5"	1'-6"	1

CRA TABLE - 8" MAIN			
DIMENSIONS			VOLUME (IN YDS)
L	W	H	
7'-9"	2'-0"	2'-8"	1-3/4



LOCATION MAP
SCALE: N.T.S.



REV.	DESCRIPTION	DATE
1	ADDRESS AGENCY COMMENTS	06/19/19

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= S16
= S17
= CDS

PREPARED FOR:
AVATAR EQUITIES, LLC
6800 JERICHO TURNPIKE
SUITE 120W #204
SYOSSET, NY 11791

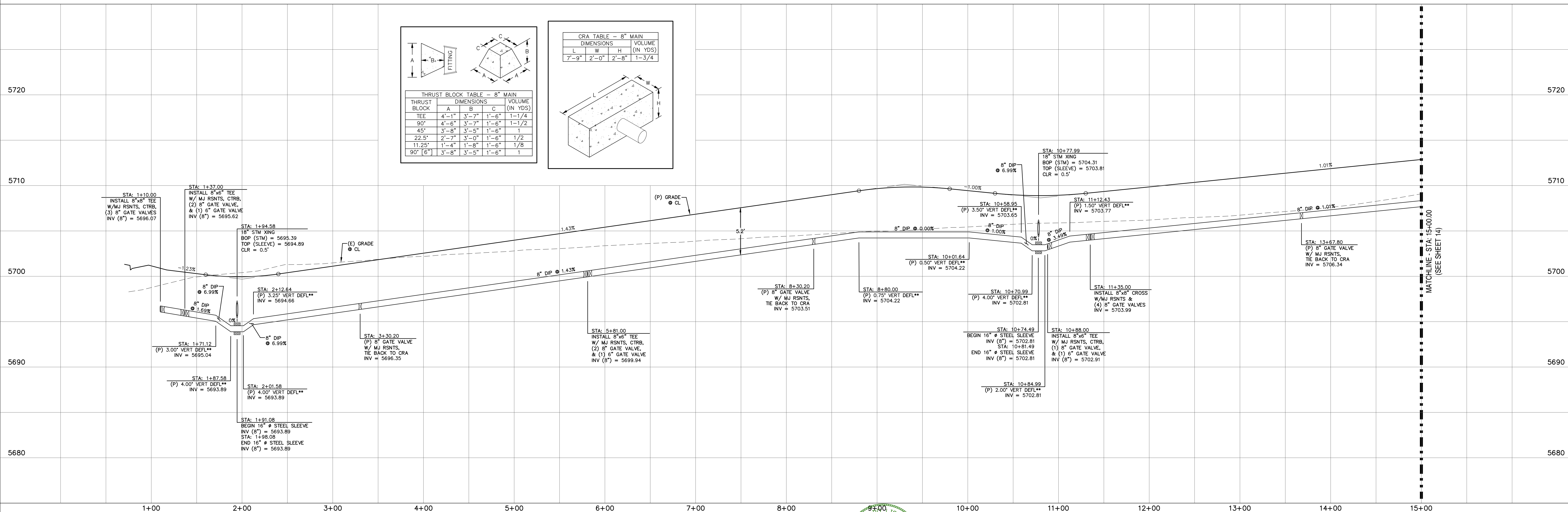
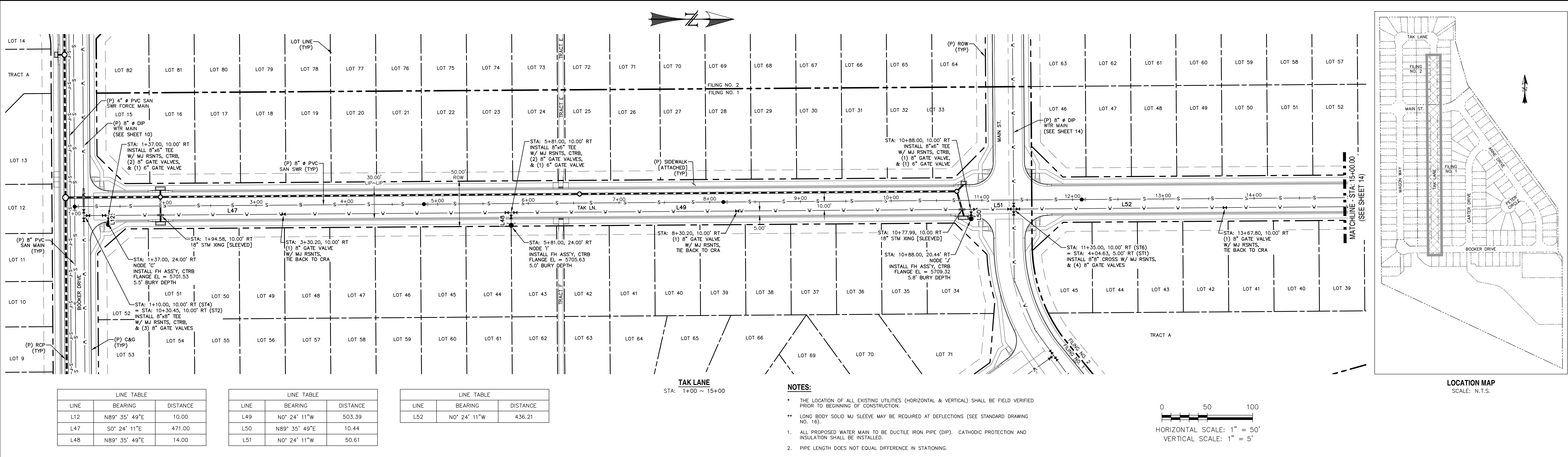
PREPARED UNDER CONTRACT NO. 19-001 FOR AND BEHALF OF CATAMOUNT ENGINEERING.

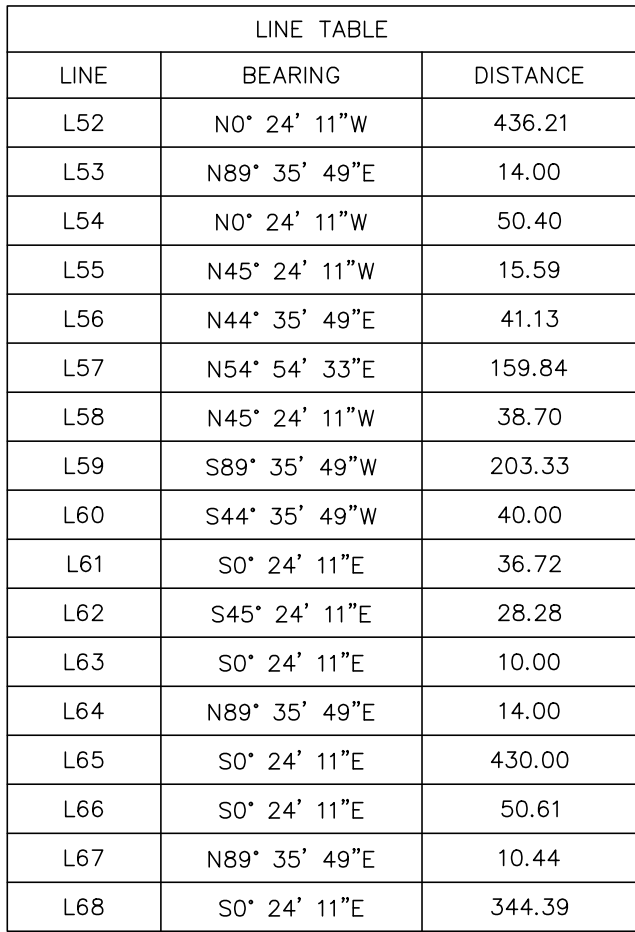
DAVID L. MIJARES, LICENSED PROFESSIONAL ENGINEER #40510
10/19/20
DATE

CATAMOUNT ENGINEERING
321 W. HENRIETTA AVE
PO BOX 221
WOODLAND PARK, CO 80866
(719) 428-2124

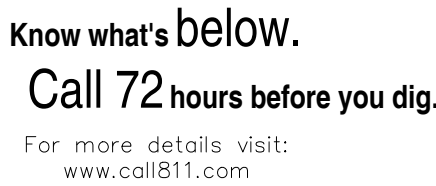
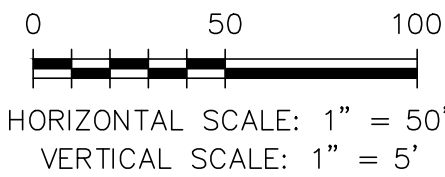
**RIVERBEND CROSSING
WATER MAIN
PLAN & PROFILE**

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SCALE: 1" = 50'	DATE: 10/19/20
JOB NUMBER	SHEET
17-114	13 OF 18





2. PIPE LENGTH DOES NOT EQUAL DIFFERENCE IN STATIONING.

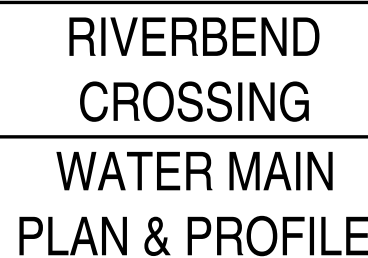


- = ST1
- = ST2
- = ST3
- = ST4
- = ST5
- = ST6
- = ST7
- = CDS

6800 JERICHO TURNPIKE
SUITE 120W #204
SYOSSET, NY 11791

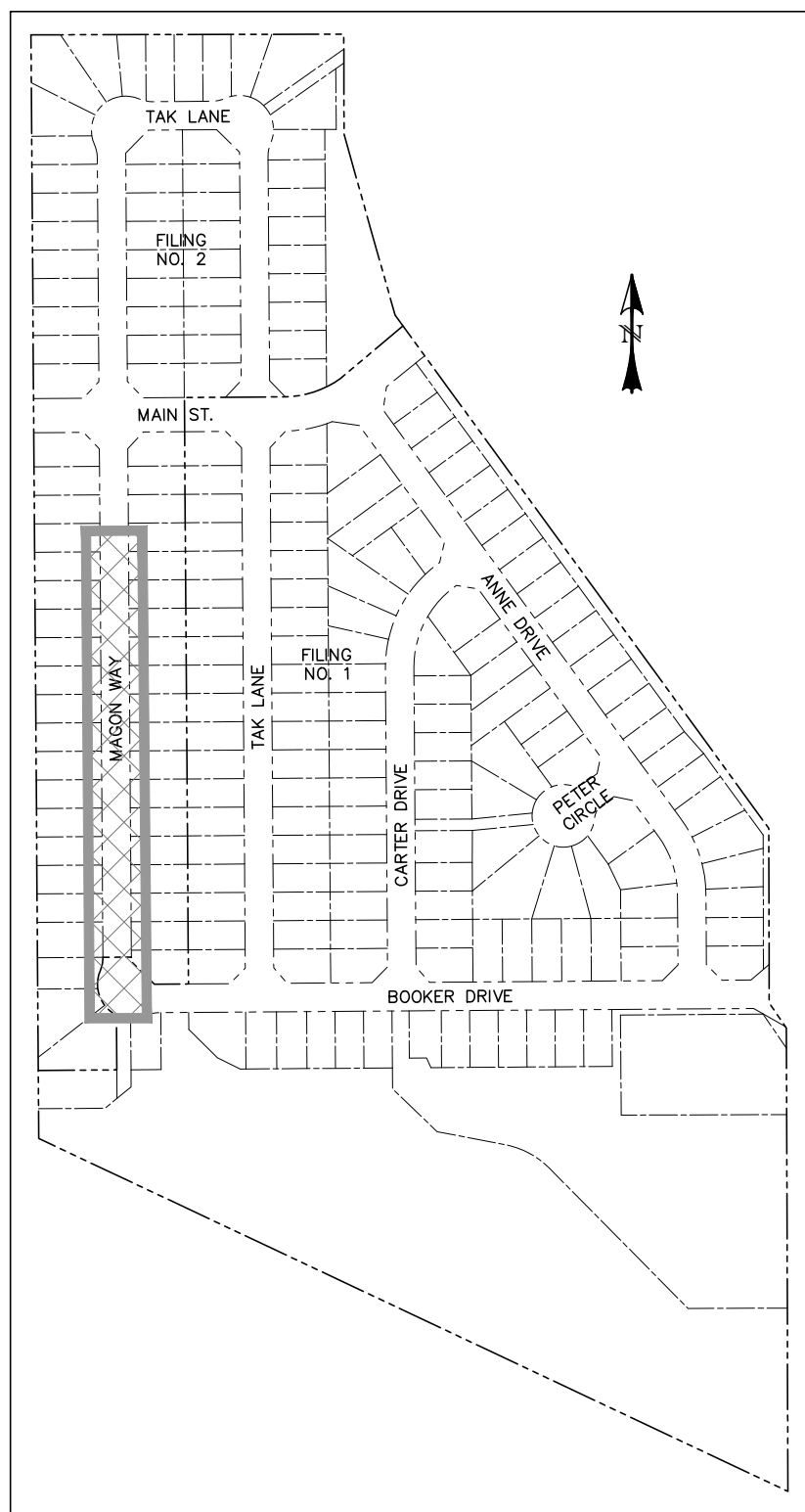
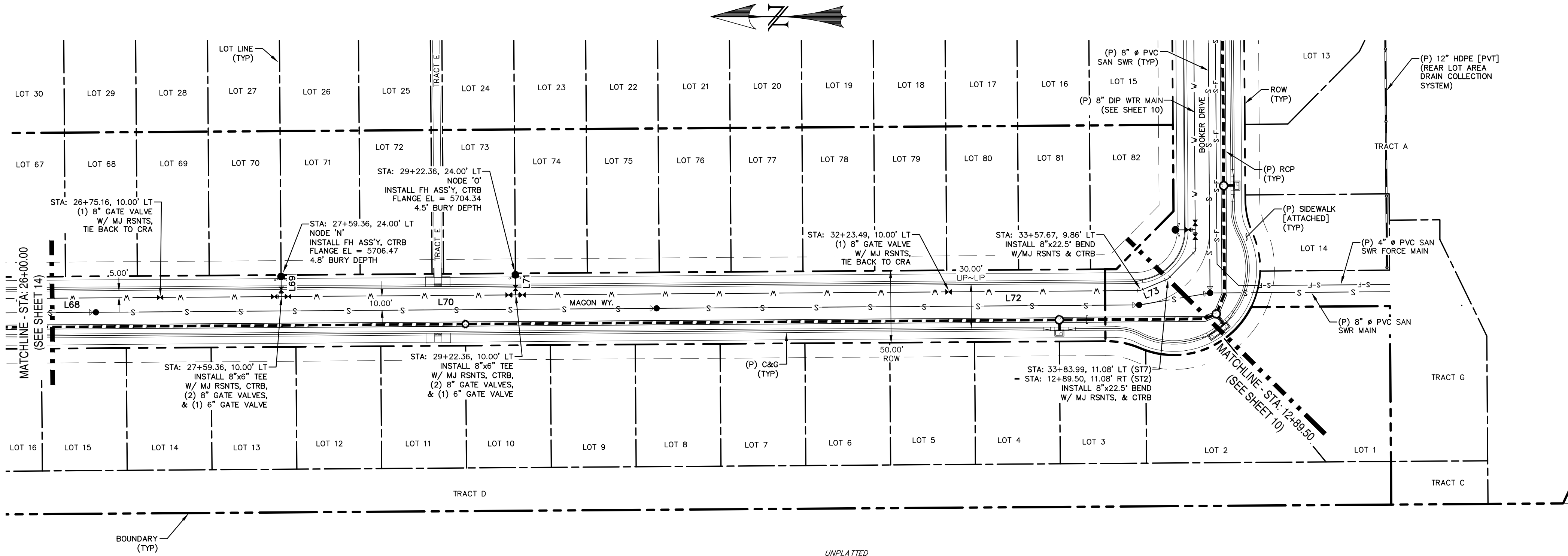
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17-114 16 OF 18

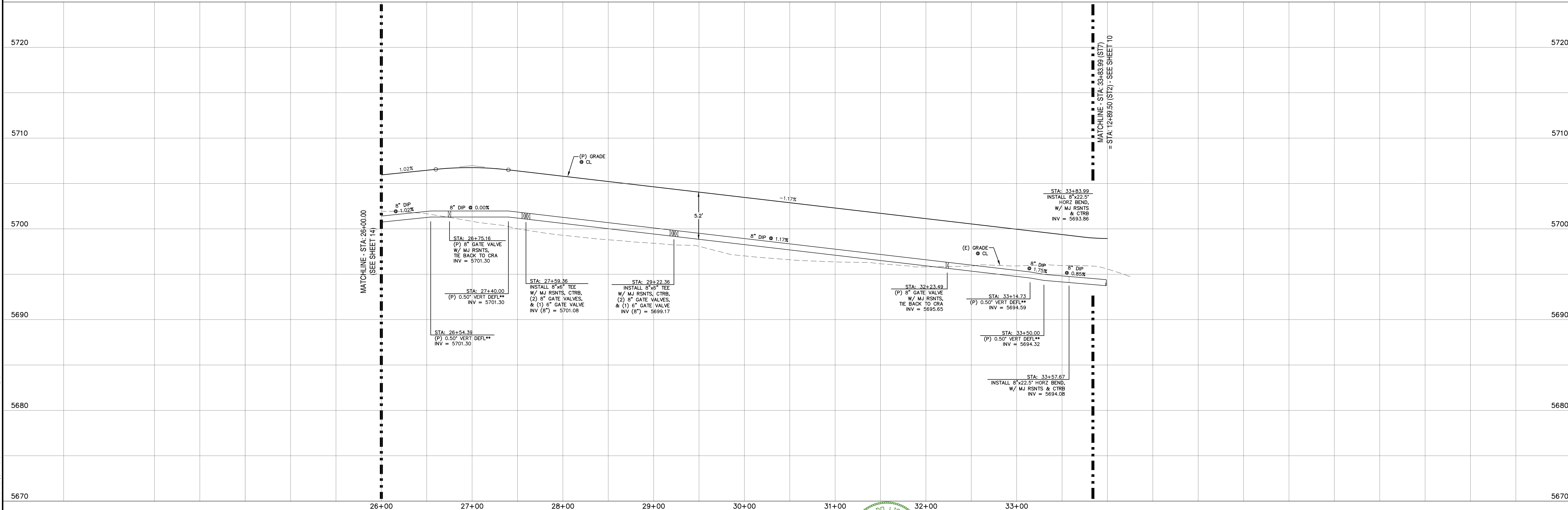
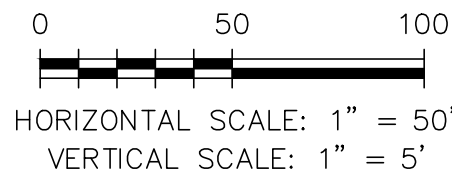
LINE TABLE		
LINE	BEARING	DISTANCE
L68	S0° 24' 10.53"E	338.39
L69	N89° 35' 49.47"E	14.00
L70	S0° 24' 10.53"E	163.00
L71	N89° 35' 49.47"E	14.00
L72	S0° 24' 10.53"E	434.49
L73	S22° 54' 10.53"E	20.83



NOTES:

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MAGON WAY
STA: 26+00 ~ 33+50



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TAK LANE	= S16
MAGON WAY	= S17
CLL-DE-SAC - FL	= CDS

PREPARED FOR:

AVATAR EQUITIES, LLC

6800 JERICHO TURNPIKE
SUITE 120W #204
SYOSSET, NY 11791

PREPARED UNDER CONTRACT FOR AND BEHALF OF CATAMOUNT ENGINEERING.

DAVID L. MIJARES, LICENSED PROFESSIONAL ENGINEER NO. 40510

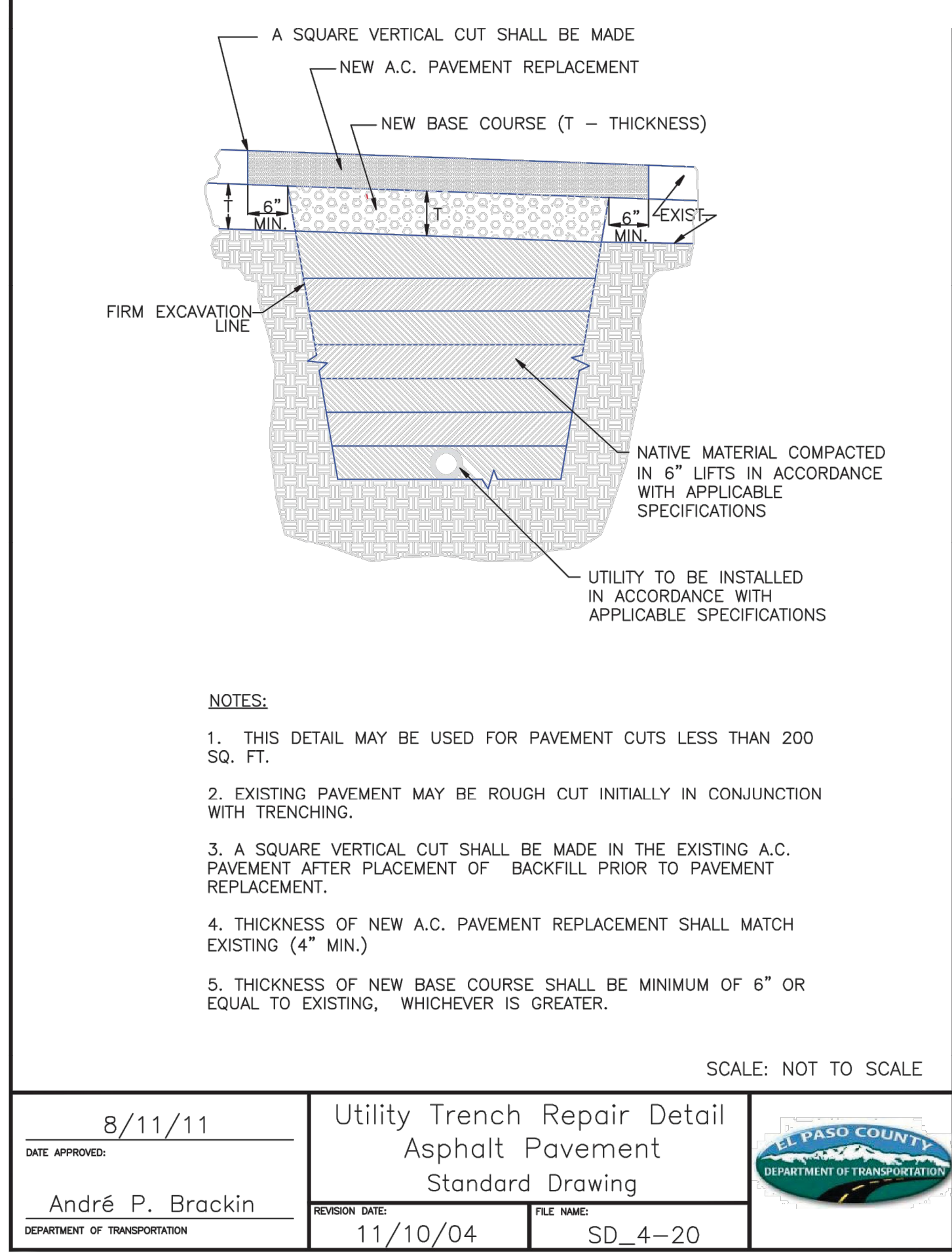
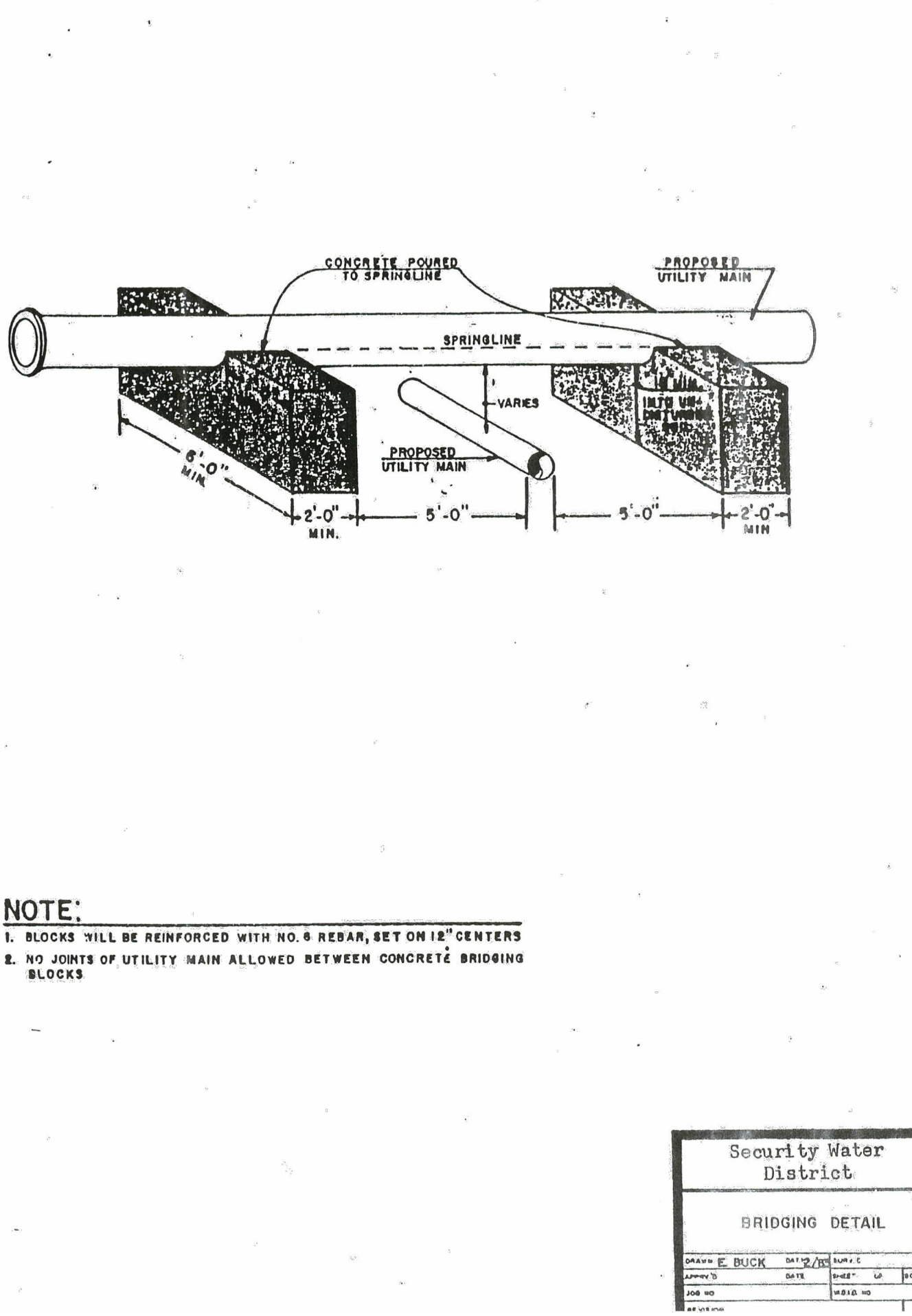
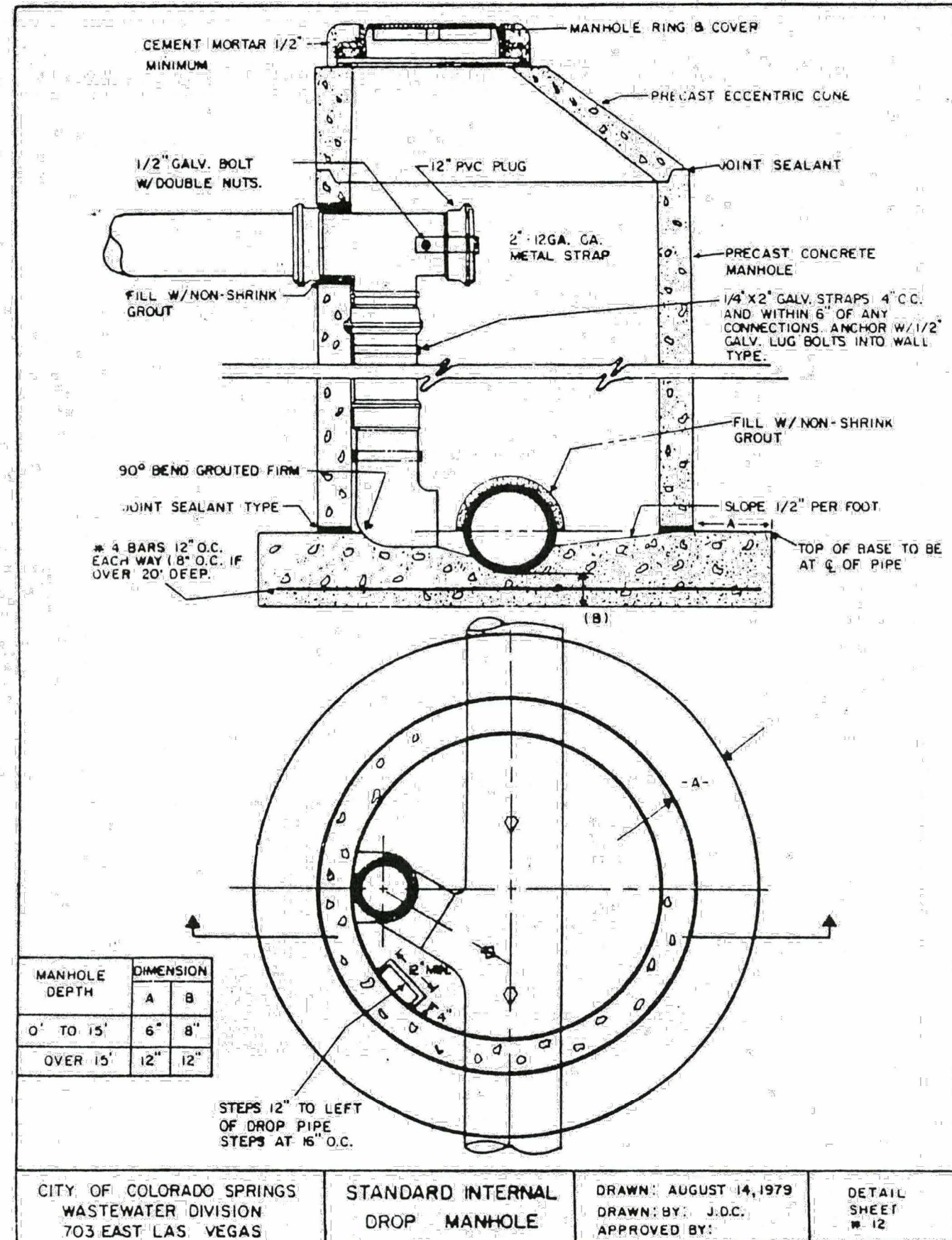
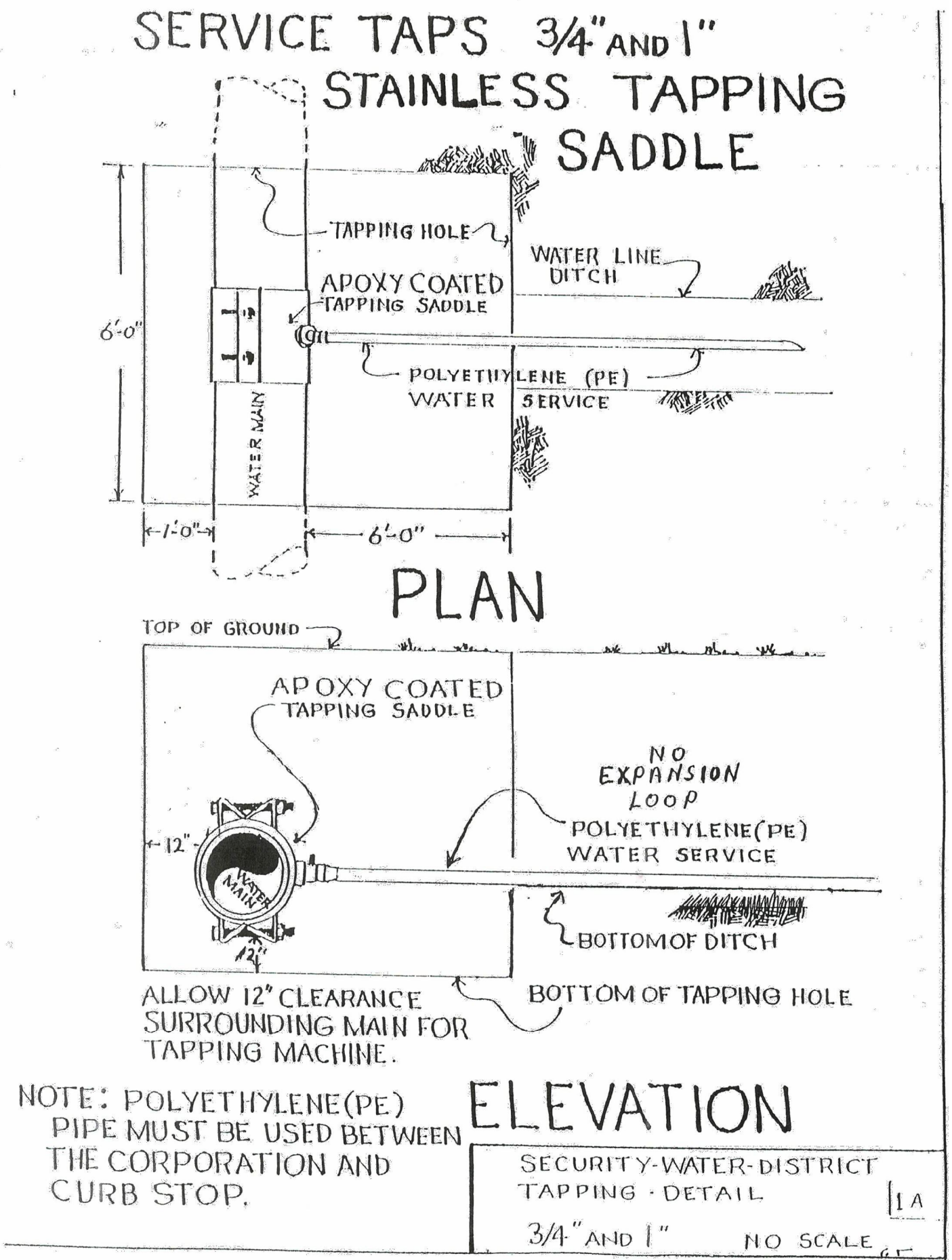
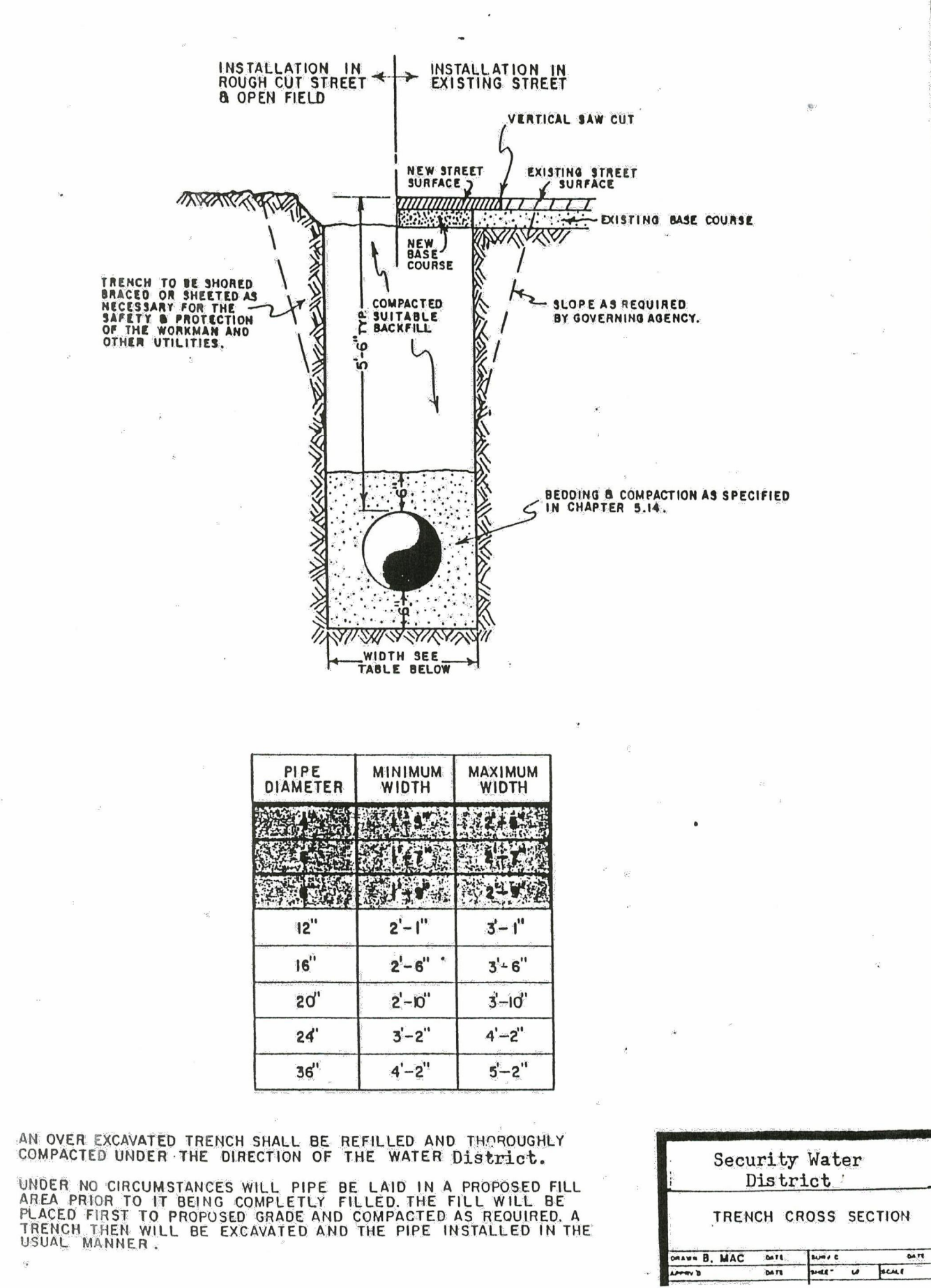
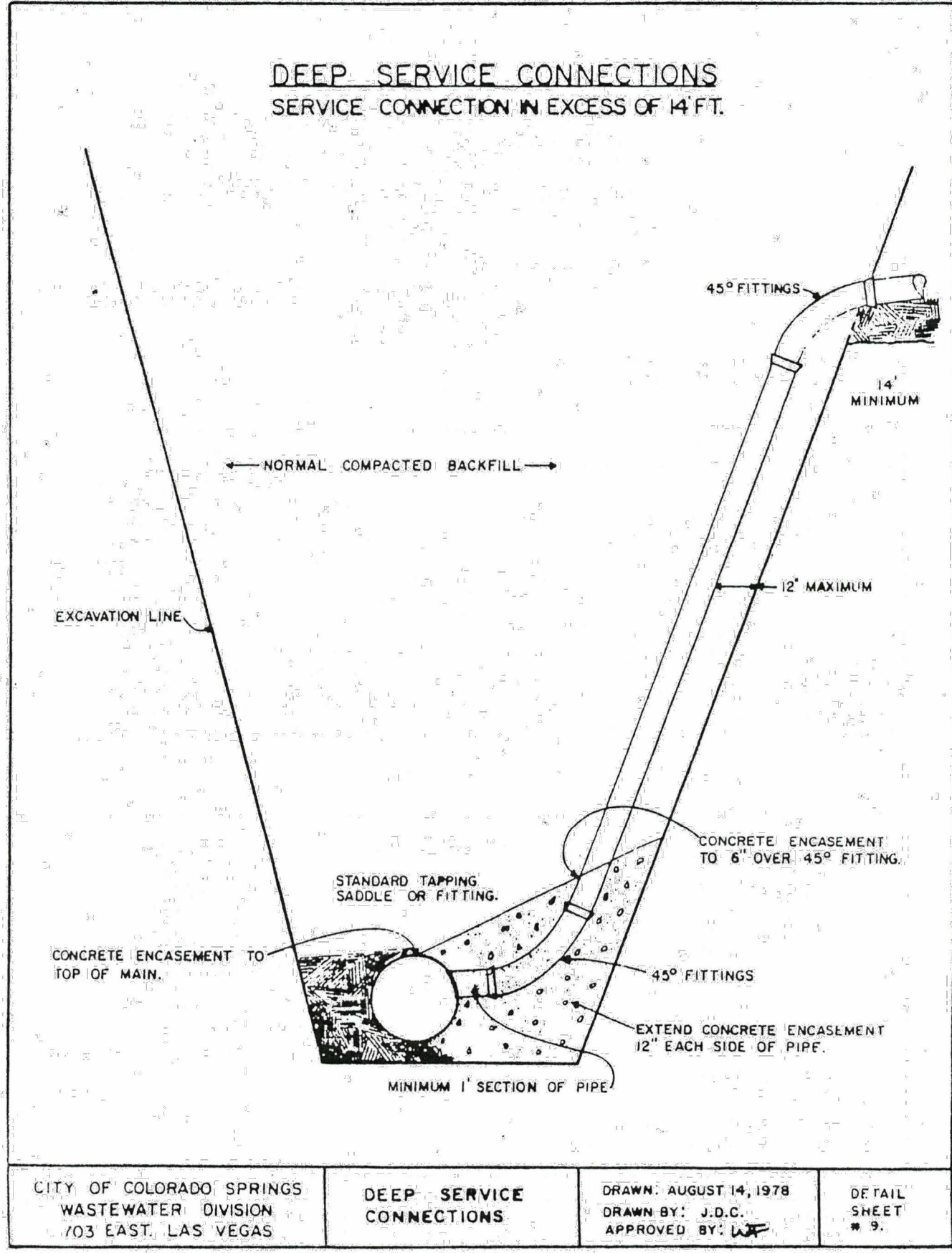
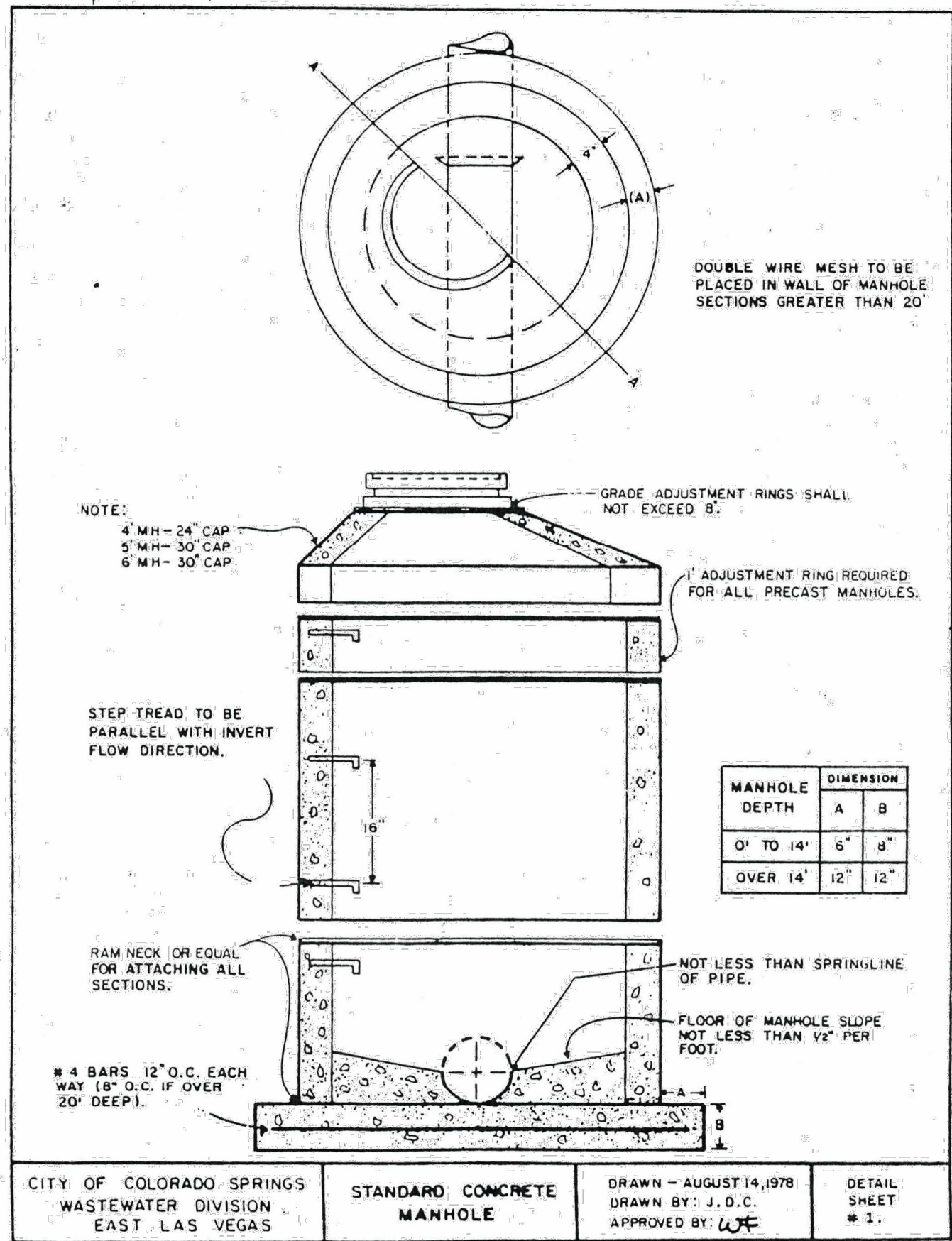
10/19/20
DATE

CATAMOUNT ENGINEERING
321 W. HENRIETTA AVE
PO BOX 221
WOODLAND PARK, CO 80866
(719) 428-2124

RIVERBEND CROSSING WATER MAIN PLAN & PROFILE	DESIGNED BY: MGP SCALE: 1" = 50' JOB NUMBER: 17-114	DRAWN BY: MGP DATE: 10/19/20 SHEET: 17 OF 18
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REV.	DESCRIPTION	DATE
1	ADDRESS AGENCY COMMENTS	06/19/19

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AVATAR EQUITIES, LLC
6800 JERICHO TURNPIKE
SUITE 120W #204
SYOSSET, NY 11791

PREPARED UNDER CONTRACT AND FOR AND BEHALF OF CATAMOUNT ENGINEERING.
DAVID L. MIJARES, LICENSED PROFESSIONAL ENGINEER #40510
10/19/20
DATE

CATAMOUNT ENGINEERING
321 W. HENRIETTA AVE
PO BOX 221
WOODLAND PARK, CO 80866
(719) 428-2124

RIVERBEND CROSSING
UTILITY DETAIL SHEET

DESIGNED BY: MGP	DRAWN BY: MGP
SCALE: VARIES	DATE: 10/19/20
JOB NUMBER: 17-114	SHEET: 18 OF 18