

STANDARD CONSTRUCTION NOTES:

- ALL DRAINAGE AND ROADWAY CONSTRUCTION SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION AND FIELD LOCATION OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, BEFORE BEGINNING CONSTRUCTION. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CALL 811 TO CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC).
- CONTRACTOR SHALL KEEP A COPY OF THESE APPROVED PLANS, THE GRADING AND EROSION CONTROL PLAN, THE STORMWATER MANAGEMENT PLAN (SWMP), THE SOILS AND GEOTECHNICAL REPORT, AND THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS AT THE JOB SITE AT ALL TIMES, INCLUDING THE FOLLOWING:
 - EL PASO COUNTY ENGINEERING CRITERIA MANUAL (ECM)
 - CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2
 - COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION
 - CDOT M & S STANDARDS
- NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED AND APPROVED, IN WRITING. ANY MODIFICATIONS NECESSARY TO MEET CRITERIA AFTER-THE-FACT WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.
- IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ACCURATELY SHOW EXISTING CONDITIONS, BOTH ONSITE AND OFFSITE, ON THE CONSTRUCTION PLANS. ANY MODIFICATIONS NECESSARY DUE TO CONFLICTS, OMISSIONS, OR CHANGED CONDITIONS WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.
- CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT (PCD) - INSPECTIONS, PRIOR TO STARTING CONSTRUCTION.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE REQUIREMENTS OF ALL JURISDICTIONAL AGENCIES AND TO OBTAIN ALL REQUIRED PERMITS, INCLUDING BUT NOT LIMITED TO EL PASO COUNTY EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP), REGIONAL BUILDING FLOODPLAIN DEVELOPMENT PERMIT, U.S. ARMY CORPS OF ENGINEERS-ISSUED 401 AND/OR 404 PERMITS, AND COUNTY AND STATE FUGITIVE DUST PERMITS.
- CONTRACTOR SHALL NOT DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE DESIGN ENGINEER AND PCD. CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY ERRORS OR INCONSISTENCIES.
- ALL STORM DRAIN PIPE SHALL BE CLASS III RCP UNLESS OTHERWISE NOTED AND APPROVED BY PCD.
- CONTRACTOR SHALL COORDINATE GEOTECHNICAL TESTING PER ECM STANDARDS. PAVEMENT DESIGN SHALL BE APPROVED BY EL PASO COUNTY PCD PRIOR TO PLACEMENT OF CURB AND GUTTER AND PAVEMENT.
- ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.
- SIGHT VISIBILITY TRIANGLES AS IDENTIFIED IN THE PLANS SHALL BE PROVIDED AT ALL INTERSECTIONS. OBSTRUCTIONS GREATER THAN 18 INCHES ABOVE FLOWLINE ARE NOT ALLOWED WITHIN SIGHT TRIANGLES.
- SIGNING AND STRIPING SHALL COMPLY WITH EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS (DPW) AND MUTCD CRITERIA.
- CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY EL PASO COUNTY DPW, INCLUDING WORK WITHIN THE RIGHT-OF-WAY AND SPECIAL TRANSPORT PERMITS.
- THE LIMITS OF CONSTRUCTION SHALL REMAIN WITHIN THE PROPERTY LINE UNLESS OTHERWISE NOTED. THE OWNER/DEVELOPER SHALL OBTAIN WRITTEN PERMISSION AND EASEMENTS, WHERE REQUIRED, FROM ADJOINING PROPERTY OWNER(S) PRIOR TO ANY OFF-SITE DISTURBANCE, GRADING, OR CONSTRUCTION.

STANDARD NOTES FOR EL PASO COUNTY GRADING AND EROSION CONTROL PLANS:

- STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR DEGRADATION OF STATE WATERS. ALL WORK AND EARTH DISTURBANCE SHALL BE DONE IN A MANNER THAT MINIMIZES POLLUTION OF ANY ON-SITE OR OFF-SITE WATERS, INCLUDING WETLANDS.
- NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED AND APPROVED, IN WRING.
- A SEPARATE STORMWATER MANAGEMENT PLAN (SWMP) FOR THIS PROJECT SHALL BE COMPLETED AND AN EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP) ISSUED PRIOR TO COMMENCEMENT OF THE SWMP DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE DESIGNATED QUALIFIED STORMWATER MANAGER OR CERTIFIED EROSION CONTROL INSPECTOR. THE SWMP SHALL BE LOCATED ON SITE AT ALL TIMES DURING CONSTRUCTION AND SHALL BE KEPT UP TO DATE WITH WORK PROGRESS AND CHANGED IN THE FIELD.
- ONCE THE ESQCP IS APPROVED AND A 'NOTICE TO PROCEED' HAS BEEN ISSUED, THE CONTRACTOR MAY INSTALL THE INITIAL STAGE EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED ON THE APPROVED GEC. A PRE-CONSTRUCTION MEETING BETWEEN THE CONTRACTOR, ENGINEER, AND EL PASO COUNTY WILL BE HELD PRIOR TO ANY CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE APPLICANT TO COORDINATE THE MEETING TIME AND PLACE WITH COUNTY STAFF.
- CONTROL MEASURES MUST BE INSTALLED PRIOR TO COMMENCEMENT OF ACTIVITIES THAT COULD CONTRIBUTE POLLUTANTS TO STORMWATER CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, AND DISTURBED LAND AREAS SHALL BE INSTALLED IMMEDIATELY UPON COMPLETION OF THE DISTURBANCE.
- ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE MAINTAINED AND REMAIN IN EFFECTIVE OPERATING CONDITION UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED AND FINAL STABILIZATION IS ESTABLISHED. ALL PERSONS ENGAGED IN LAND DISTURBANCE ACTIVITIES SHALL ASSESS THE ADEQUACY OF CONTROL MEASURES AT THE SITE AND IDENTIFY IF CHANGES TO THOSE CONTROL MEASURES ARE NEEDED TO ENSURE THE CONTINUED EFFECTIVE PERFORMANCE OF THE CONTROL MEASURES. ALL CHANGES TO TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES MUST BE INCORPORATED INTO THE STORMWATER MANAGEMENT PLAN.
- TEMPORARY STABILIZATION SHALL BE IMPLEMENTED ON DISTURBED AREAS AND STOCKPILES WHERE GROUND DISTURBING CONSTRUCTION ACTIVITY HAS PERMANENTLY CEASED FOR LONGER THAN 14 DAYS.
- FINAL STABILIZATION MUST BE IMPLEMENTED AT ALL APPLICABLE CONSTRUCTION SITES. FINAL STABILIZATION IS ACHIEVED WHEN ALL GROUND DISTURBING ACTIVITIES ARE COMPLETE AND ALL DISTURBED AREAS EITHER HAVE A UNIFORM VEGETATIVE COVER WITH INDIVIDUAL PLANT DENSITY OF 70 PERCENT OF PRE-DISTURBANCE LEVELS ESTABLISHED OR EQUIVALENT PERMANENT ALTERNATIVE STABILIZATION METHOD IS IMPLEMENTED. ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE REMOVED UPON FINAL STABILIZATION AND BEFORE PERMIT CLOSURE.
- ALL PERMANENT STORMWATER MANAGEMENT FACILITIES SHALL BE INSTALLED AS DESIGNED IN THE APPROVED PLANS. ANY PROPOSED CHANGES THAT EFFECT THE DESIGN OR FUNCTION OF PERMANENT STORMWATER MANAGEMENT STRUCTURES MUST BE APPROVED BY THE ECM ADMINISTRATION PRIOR TO IMPLEMENTATION.
- EARTH DISTURBANCES SHALL BE CONDUCTED IN SUCH A MANNER AS TO EFFECTIVELY MINIMIZE ACCELERATED SOIL EROSION AND RESULTING SEDIMENTATION. ALL DISTURBANCES SHALL BE DESIGNED, CONSTRUCTED, AND COMPLETED SO THAT THE EXPOSED AREA OF ANY DISTURBED LAND SHALL BE LIMITED TO THE SHORTEST PRACTICAL PERIOD OF TIME. PRE-EXISTING VEGETATION SHALL BE PROTECTED AND MAINTAINED WITHIN 50 HORIZONTAL FEET OF A WATERS OF THE STATE UNLESS SHOWN TO BE INFEASIBLE AND SPECIFICALLY REQUESTED AND APPROVED.
- COMPACTION OF SOIL MUST BE PREVENTED IN AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES OR WHERE FINAL STABILIZATION WILL BE ACHIEVED BY VEGETATIVE COVER. AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES SHALL ALSO BE PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION UNTIL FINAL STABILIZATION IS ACHIEVED. IF COMPACTION PREVENTION IS NOT FEASIBLE DUE TO SITE CONSTRAINTS, ALL AREAS DESIGNATED FOR INFILTRATION AND VEGETATION CONTROL MEASURES MUST BE LOOSENED PRIOR TO INSTALLATION OF THE CONTROL MEASURES.
- ANY TEMPORARY OR PERMANENT FACILITY DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF STORMWATER AROUND, THROUGH, OR FROM THE EARTH DISTURBANCE AREA SHALL BE A STABILIZED CONVEYANCE DESIGNED TO MINIMIZE EROSION AND THE DISCHARGE OF SEDIMENT OFF SITE.
- CONCRETE WASH WATER SHALL BE CONTAINED AND DISPOSED OF IN ACCORDANCE WITH THE SWMP. NO WASH WATER SHALL BE DISCHARGED TO OR ALLOWED TO RUNOFF TO ENTER STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES. CONCRETE WASHOUTS SHALL NOT BE LOCATED IN AN AREA WHERE SHALLOW GROUNDWATER MAY BE PRESENT, OR WITHIN 50 FEET OF A SURFACE WATER BODY, CREEK OR STREAM.
- DURING DEWATERING OPERATIONS OF UNCONTAMINATED GROUND WATER MAY BE DISCHARGED ON SITE, BUT SHALL NOT LEAVE THE SITE IN THE FORM OF SURFACE RUNOFF UNLESS AN APPROVED STATE DEWATERING PERMIT IS IN PLACE.
- EROSION CONTROL BLANKETING OR OTHER PROTECTIVE COVERING SHALL BE USED ON SLOPES STEEPER THAN 3:1.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL WASTES FROM THE CONSTRUCTION SITE FOR DISPOSAL IN ACCORDANCE WITH LOCAL AND STATE REGULATORY REQUIREMENTS. NO CONSTRUCTION DEBRIS, TREE SLASH, BUILDING MATERIAL WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE.
- WASTE MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN THE STREET, ALLEY, OR OTHER PUBLIC WAY, UNLESS IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. CONTROL MEASURES MAY BE REQUIRED BY EL PASO COUNTY ENGINEERING IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES.
- TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFF-SITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY.
- THE OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK, SEDIMENT, SOIL, AND SAND THAT MAY ACCUMULATE IN ROADS, STORM DRAINS AND OTHER DRAINAGE CONVEYANCE SYSTEMS AND STORMWATER APPURTENANCES AS A RESULT OF SITE DEVELOPMENT.
- THE QUANTITY OF MATERIALS STORED ON THE PROJECT SITE SHALL BE LIMITED, AS MUCH AS PRACTICAL, TO THAT QUANTITY REQUIRED TO PERFORM THE WORK IN AN ORDERLY SEQUENCE. ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER, IN THEIR ORIGINAL CONTAINERS, WITH ORIGINAL MANUFACTURER'S LABELS.
- NO CHEMICAL(S) HAVING THE POTENTIAL TO BE RELEASED IN STORMWATER ARE TO BE STORED OR USED ONSITE UNLESS PERMISSION FOR THE USE OF SUCH CHEMICAL(S) IS GRANTED IN WRITING BY THE ECM ADMINISTRATOR. IN GRANTING APPROVAL FOR THE USE OF SUCH CHEMICAL(S), SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED.
- BULK STORAGE OF ALLOWED PETROLEUM PRODUCTS OR OTHER ALLOWED LIQUID CHEMICALS IN EXCESS OF 55 GALLONS SHALL REQUIRE ADEQUATE SECONDARY CONTAINMENT PROTECTION TO CONTAIN ALL SPILLS ONSITE AND TO PREVENT ANY SPILLED MATERIALS FROM ENTERING STATE WATER, ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR OTHER FACILITIES.
- NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE CURB AND GUTTER OR DITCH EXCEPT WITH APPROVED SEDIMENT CONTROL MEASURES.
- OWNER/DEVELOPER AND THEIR AGENTS SHALL COMPLY WITH THE "COLORADO WATER QUALITY CONTROL ACT" (TITLE 25, ARTICLE 8, CRS), AND THE "CLEAN WATER ACT" (33 USC 1344), IN ADDITION TO THE REQUIREMENTS OF THE LAND DEVELOPMENT CODE, DOE VOLUME II AND THE ECM APPENDIX I. ALL APPROPRIATE PERMITS MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (1041, NPDES, FLOODPLAIN, 404, FUGITIVE DUST, ETC.). IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND OTHER LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL, STATE, LOCAL, OR COUNTY AGENCIES, THE MOST RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.
- ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE ONLY AT APPROVED CONSTRUCTION ACCESS POINTS.
- PRIOR TO CONSTRUCTION THE PERMITTEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.
- A WATER SOURCE SHALL BE AVAILABLE ON SITE DURING EARTHWORK OPERATIONS AND SHALL BE UTILIZED AS REQUIRED TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND.
- THE SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY **RWG ENGINEERS** AND DATED **APRIL 2, 2018** AND SHALL BE CONSIDERED A PART OF THESE PLANS.
- AT LEAST TEN DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB 1 ACRE OR MORE, THE OWNER OR OPERATOR OF CONSTRUCTION ACTIVITY SHALL SUBMIT A PERMIT APPLICATION FOR STORMWATER DISCHARGE TO THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, WATER QUALITY DIVISION. THE APPLICATION CONTAINS CERTIFICATION OF COMPLETION OF A STORMWATER MANAGEMENT PLAN (SWMP), OF WHICH THIS GRADING AND EROSION CONTROL PLAN MAY BE A PART. FOR INFORMATION OR APPLICATION MATERIALS CONTACT:

COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT
WATER QUALITY CONTROL DIVISION
WQCD - PERMITS
4300 CHERRY CREEK DRIVE SOUTH
DENVER, CO 80246-1530
ATTN: PERMITS UNIT

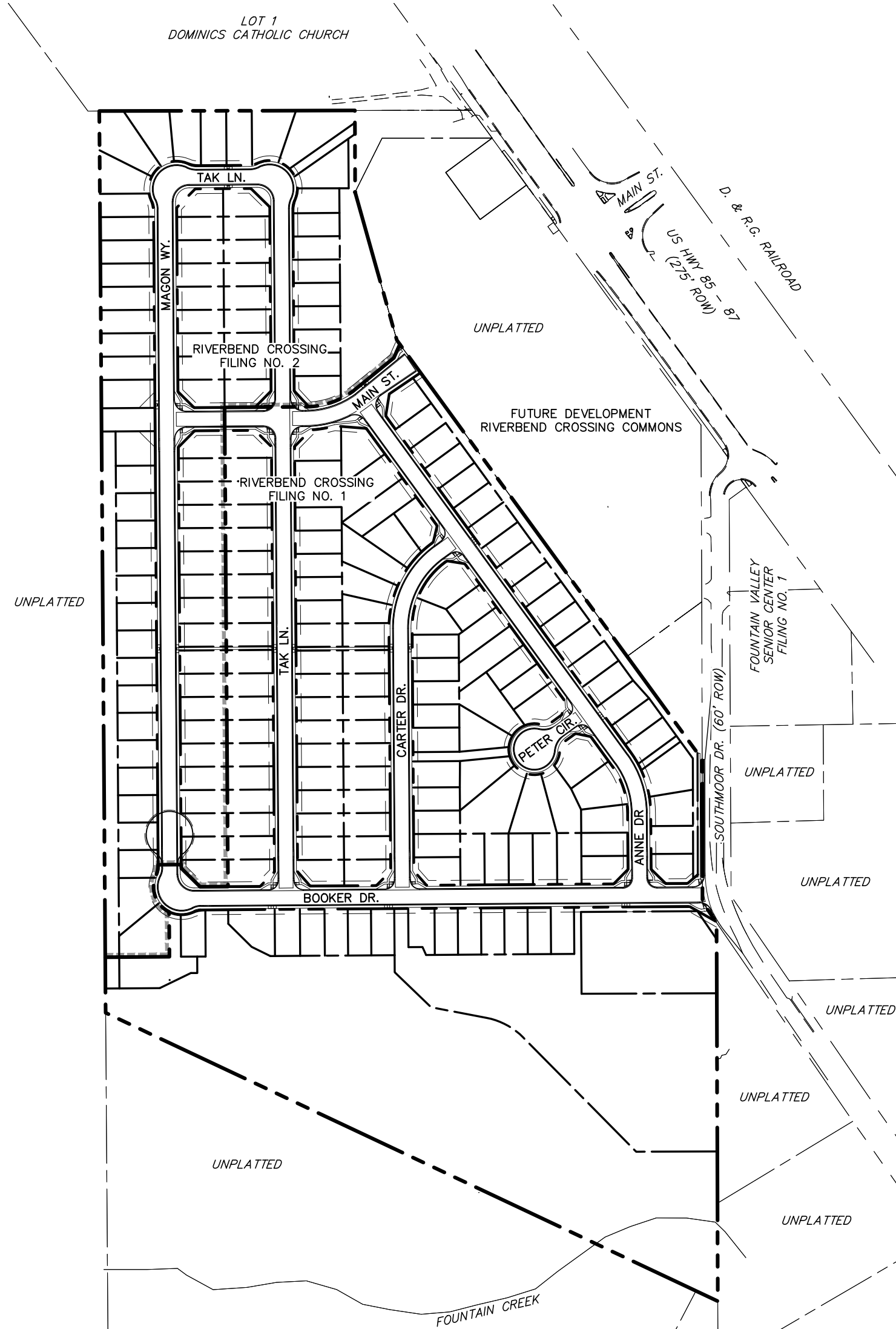
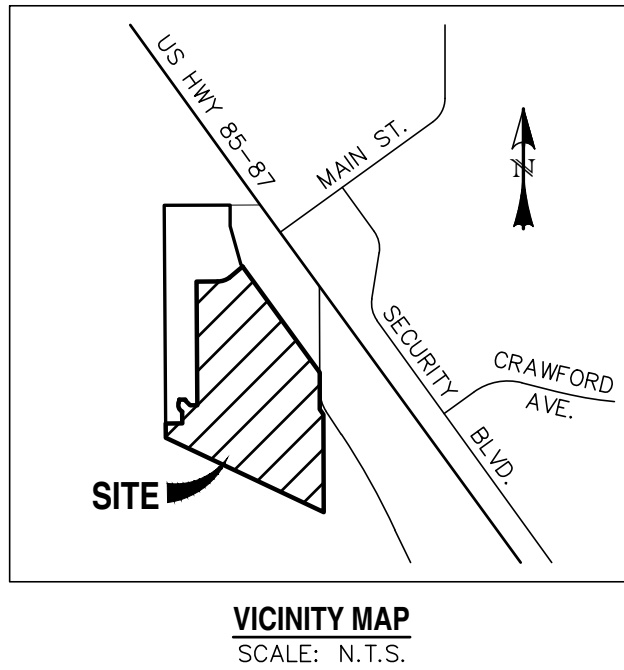
RIVERBEND CROSSING FILING NO. 1

STREET IMPROVEMENT, STORM SEWER, AND SIGNAGE & STRIPING CONSTRUCTION DRAWINGS

EL PASO COUNTY, COLORADO

EPC STORMWATER REVIEW COMMENTS ARE SHOWN IN ORANGE BOXES WITH BLACK TEXT

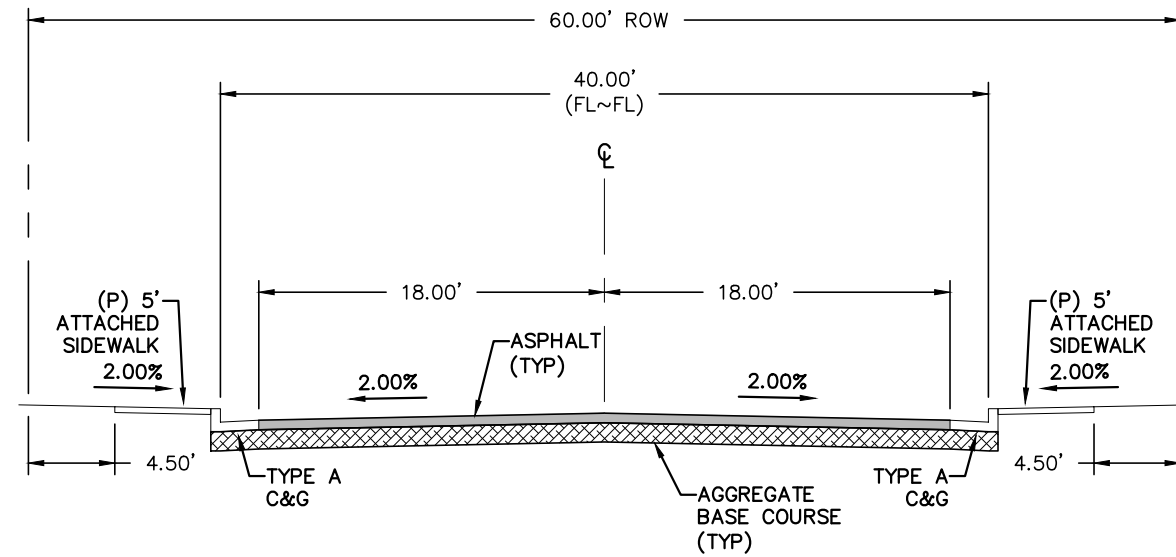
provide GEC Checklist for SF-18-044



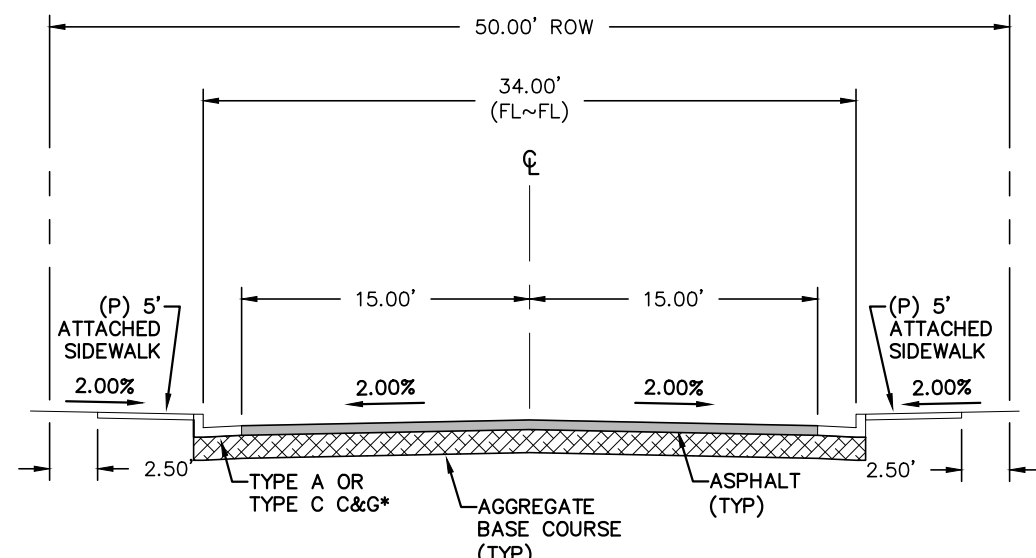
SITE MAP
SCALE: N.T.S.

LEGEND

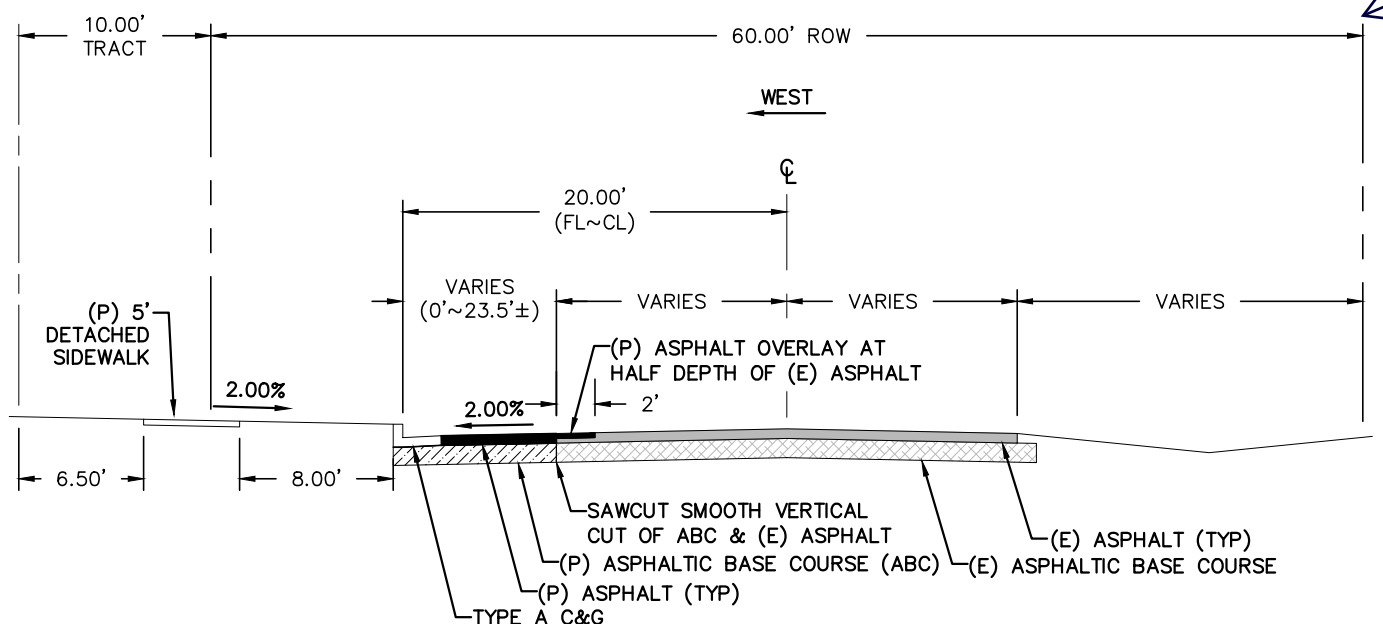
EXISTING	(E)	ALGEBRAIC DIFFERENCE	AD
PROPOSED	(P)	POINT OF VERTICAL INTERSECTION	PVI
CURB & GUTTER	C&G	STATION	STA
EASEMENT	ESMT	FLOWLINE	FL
PUBLIC	PUB	INTERSECTION-INTERSECTION	INT-INT
PUBLIC IMPROVEMENT	PI	BOUNDARY	---
BEGIN TRANSITION	BT	RIGHT-OF-WAY	---
EDGE OF ASPHALT	EOA	LOT LINE	---
GRADE BREAK	GB	EASEMENT	---
END TRANSITION	ET	(E) CONTOUR, INDEX	---
CURB RETURN	CR	(E) CONTOUR	---
POINT OF CURVATURE	PC	(E) STORM SEWER	---
POINT OF TANGENCY	PT	(P) CONTOUR, INDEX	---
POINT ON CURVE	POC	(P) CONTOUR	---
POINT OF COMPOUND CURVATURE	PCC	(P) STORM SEWER, INLET, MH	---
POINT OF REVERSE CURVATURE	PRC	INLET DETAIL CALL-OUT	---
RADIUS POINT	RP	CURB RETURN RADIUS CALL-OUT	---
TYPE 'A' CURB AND GUTTER	[A]	GRADE CALL-OUT	---
TYPE 'C' CURB AND GUTTER, OPTIONAL	[C]	SPOT ELEVATION	---



TYPICAL SECTION - URBAN RESIDENTIAL COLLECTOR - MODIFIED*
(* ATTACHED SIDEWALKS)
SCALE: N.T.S.



TYPICAL SECTION - URBAN LOCAL
(*SEE PLANS FOR LOCATIONS)
SCALE: N.T.S.



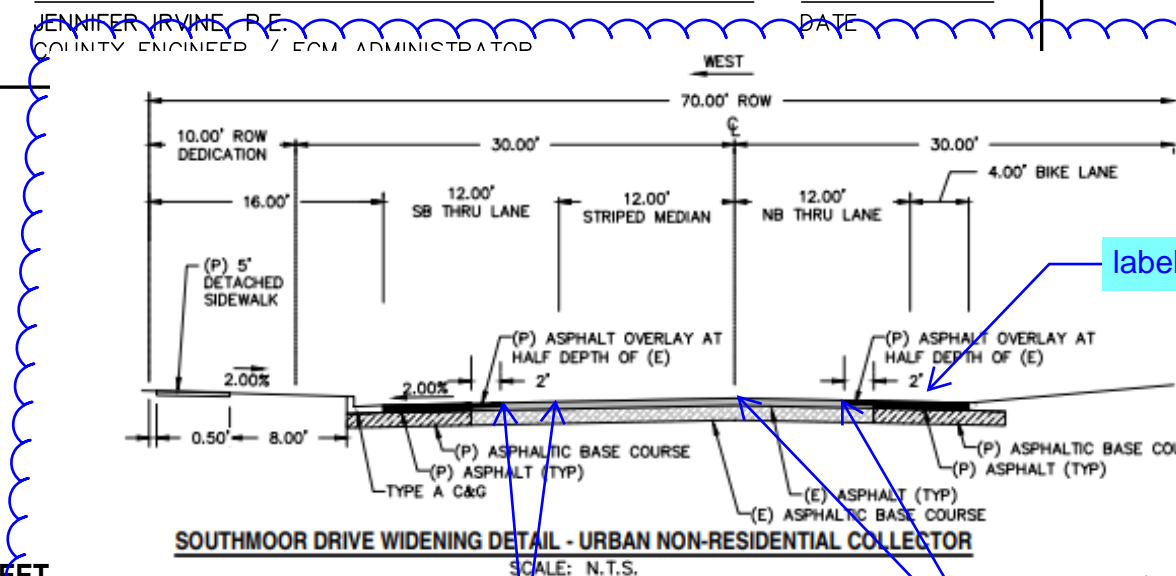
SOUTHMOOR DRIVE WIDENING DETAIL - URBAN RESIDENTIAL COLLECTOR
SCALE: N.T.S.

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 RE-SUBMITTED FOR APPROVAL, INCLUDING PAYMENT OF REVIEW FEES AT THE JOB SITE, THE COUNTY THROUGH THE APPROVAL OF THIS DOCUMENT ASSUMES NO RESPONSIBILITY FOR THE COMPLETENESS AND/OR ACCURACY OF THIS DOCUMENT."

Update Southmoor Drive per the preliminary plan. Snippet below



SHEET

TITLE SHEET	1	OF	27
SOUTHMOOR DRIVE	2	OF	27
MAIN STREET, PETER CIRCLE, & CUL-DE-SAC 01 FL	3	OF	27
BOOKER BOULEVARD	4	OF	27
ANNE WAY	5	OF	27
CARTER DRIVE	6	OF	27
TAK LANE	7	OF	27
STM-01, STM-02, & STM-02A	8	OF	27
STM-03 & STM-03A	9	OF	27
STM-04, STM-04A, & STM-04B	10	OF	27
STM-05, STM-05A, & STM-05B	11	OF	27
SIGNAGE & STRIPING PLAN	12	OF	27
SIGNAGE & STRIPING PLAN	13	OF	27
EXTENDED DETENTION BASIN W/DETAILS	14	OF	27
EXTENDED DETENTION BASIN DETAILS	15	OF	27
STORMWATER QUALITY FACILITY DETAILS	16	OF	27
FOUNTAIN CREEK CHANNEL IMPROVEMENTS	17	OF	27
DETAIL SHEET	18	OF	27
DETAIL SHEET	19	OF	27
DETAIL SHEET	20	OF	27
DETAIL SHEET	21	OF	27
LIGHTING PLAN	22	OF	27
GRADING AND EROSION CONTROL NORTH	23	OF	27
GRADING AND EROSION CONTROL SOUTH	24	OF	27
GRADING AND EROSION CONTROL DETAILS	25	OF	27
GRADING AND EROSION CONTROL DETAILS	26	OF	27
GRADING AND EROSION CONTROL DETAILS	27	OF	27

PCD FILE #: SF1844

REV.	DESCRIPTION	DATE
1	ADDRESS AGENCY COMMENTS	08/17/20



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BENCHMARK:

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

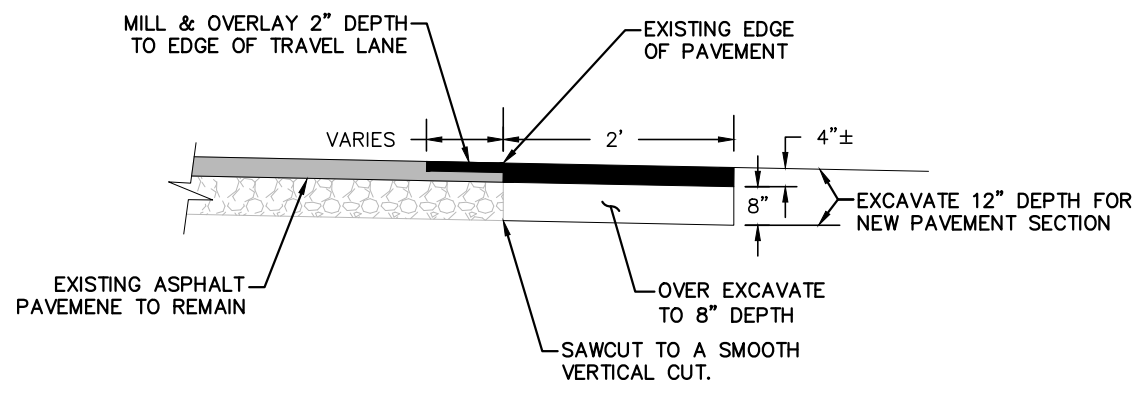
BASIS OF BEARINGS:

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 2000 PE-LS 9853" AND BEARS S 00°24'11" E, 2640.42 FEET.

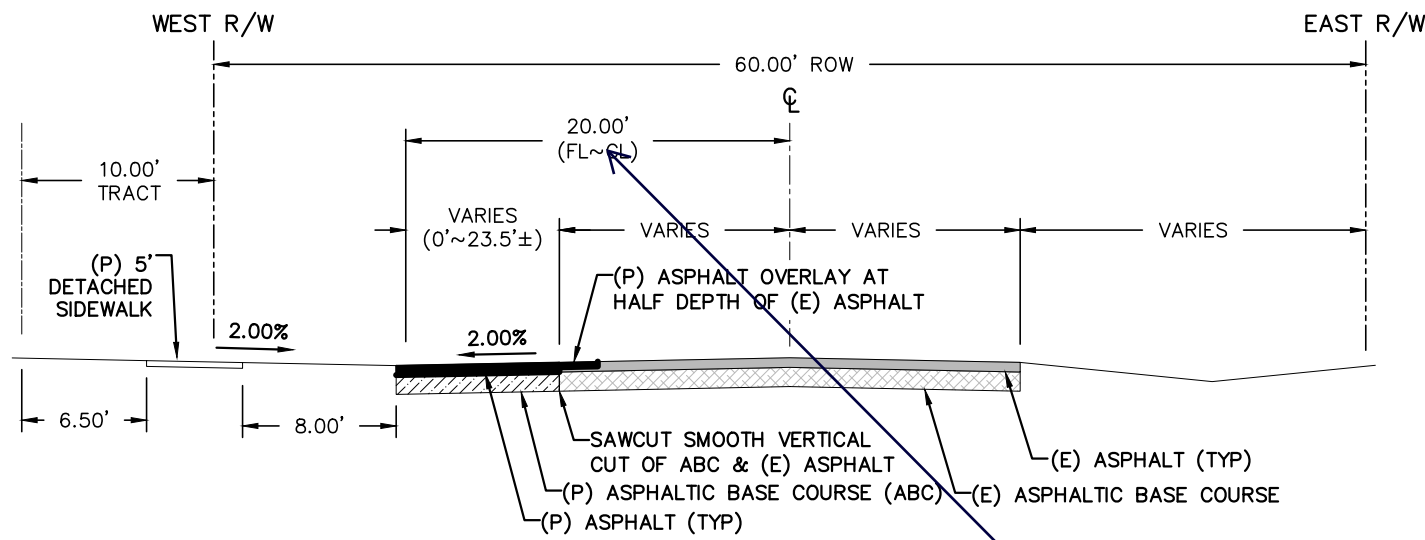


RIVERBEND CROSSING
FILING NO. 1
STREET, STORM, & STRIPING
CONSTRUCTION DRAWINGS

DESIGNED BY:	MGP	DRAWN BY:	MGP
SCALE:	N/A	DATE:	03/30/21
JOB NUMBER	17-114	SHEET	1 OF 27



MILL & OVERLAY W/ T-PATCH JOINT DETAIL
SCALE: N.T.S.

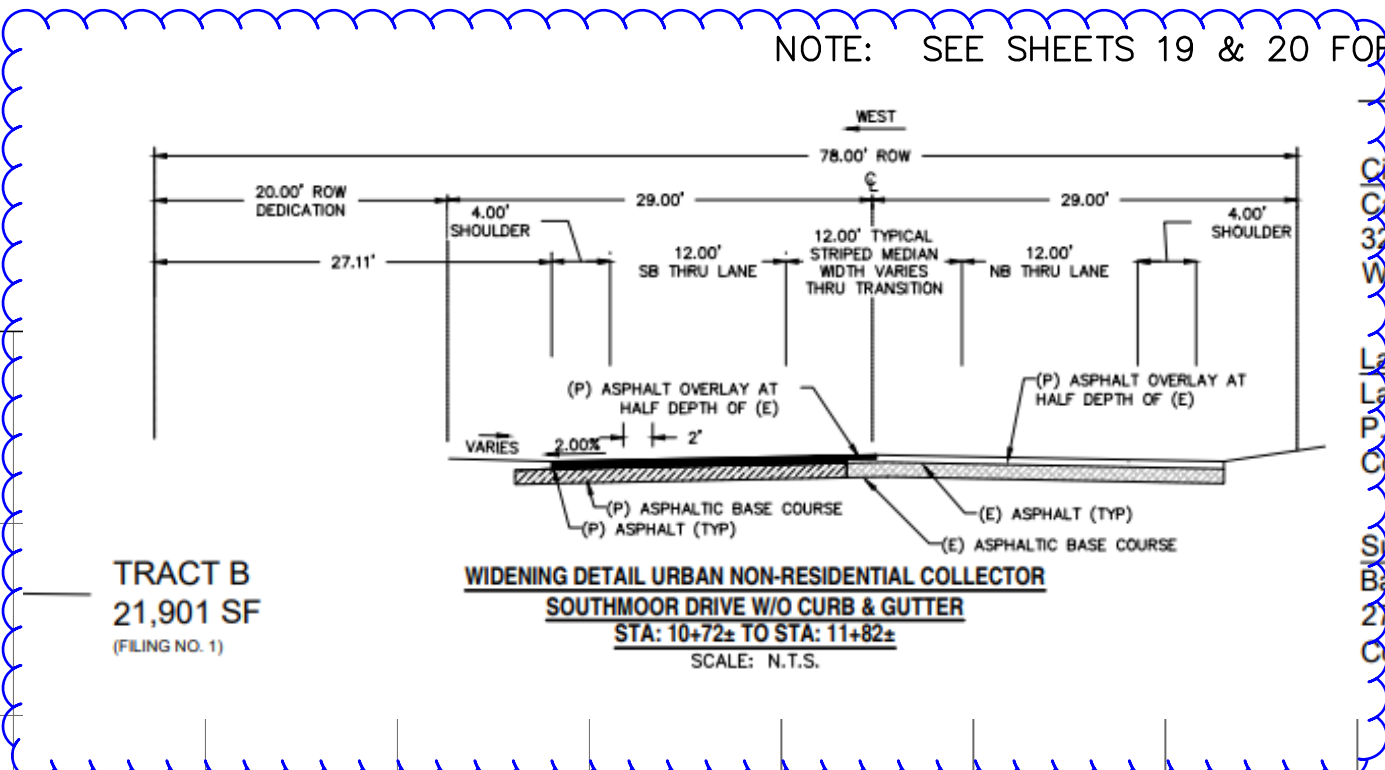


SOUTHMOOR DRIVE W/O CURB & GUTTER-WIDENING DETAIL URBAN RESIDENTIAL COLLECTOR
STA: 10+72.2 TO STA: 11+82.2
SCALE: N.T.S.

SAWCUT & PAVEMENT NOTES:

- EXISTING PAVEMENT MAY BE ROUGH OUT INITIALLY.
- A SQUARE VERTICAL CUT SHALL BE MADE IN THE EXISTING A.C. PAVEMENT AFTER PLACEMENT OF BACKFILL PRIOR TO PAVEMENT REPLACEMENT.
- THICKNESS OF NEW A.C. PAVEMENT AND BASE COURSE REPLACEMENT SHALL BE:
 - 4" A.C. WITH 12" BASE,
 - OR
 - 8" A.C. FULL DEPTH,
 - OR
 - MATCH EXISTING,
 - OR
 - PER GEOTECHNICAL ENGINEERS RECOMMENDATION, WHICHEVER IS GREATER.

Update Southmoor Drive per the preliminary plan. Snippet below

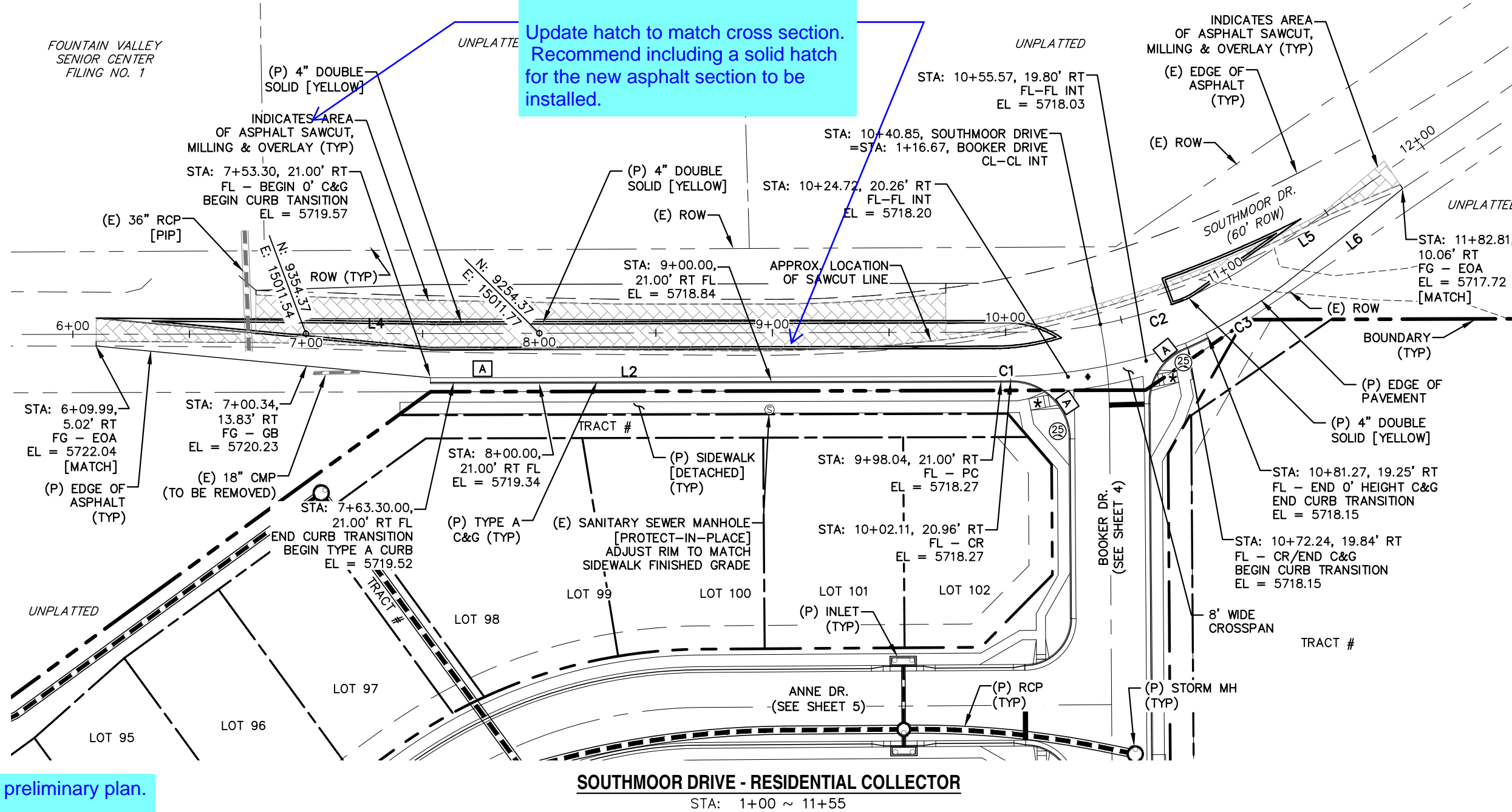


TRACT B
21,901 SF
(FILING NO. 1)

WIDENING DETAIL URBAN NON-RESIDENTIAL COLLECTOR
SOUTHMOOR DRIVE W/O CURB & GUTTER
STA: 10+72.2 TO STA: 11+82.2
SCALE: N.T.S.

NOTE: SEE SHEETS 19 & 20 FOR PEDESTRIAN RAMP DETAILS

What's shown is confusing for mill/overlay and does not seem to match the typical cross section.
Update hatch to match cross section. Recommend including a solid hatch for the new asphalt section to be installed.



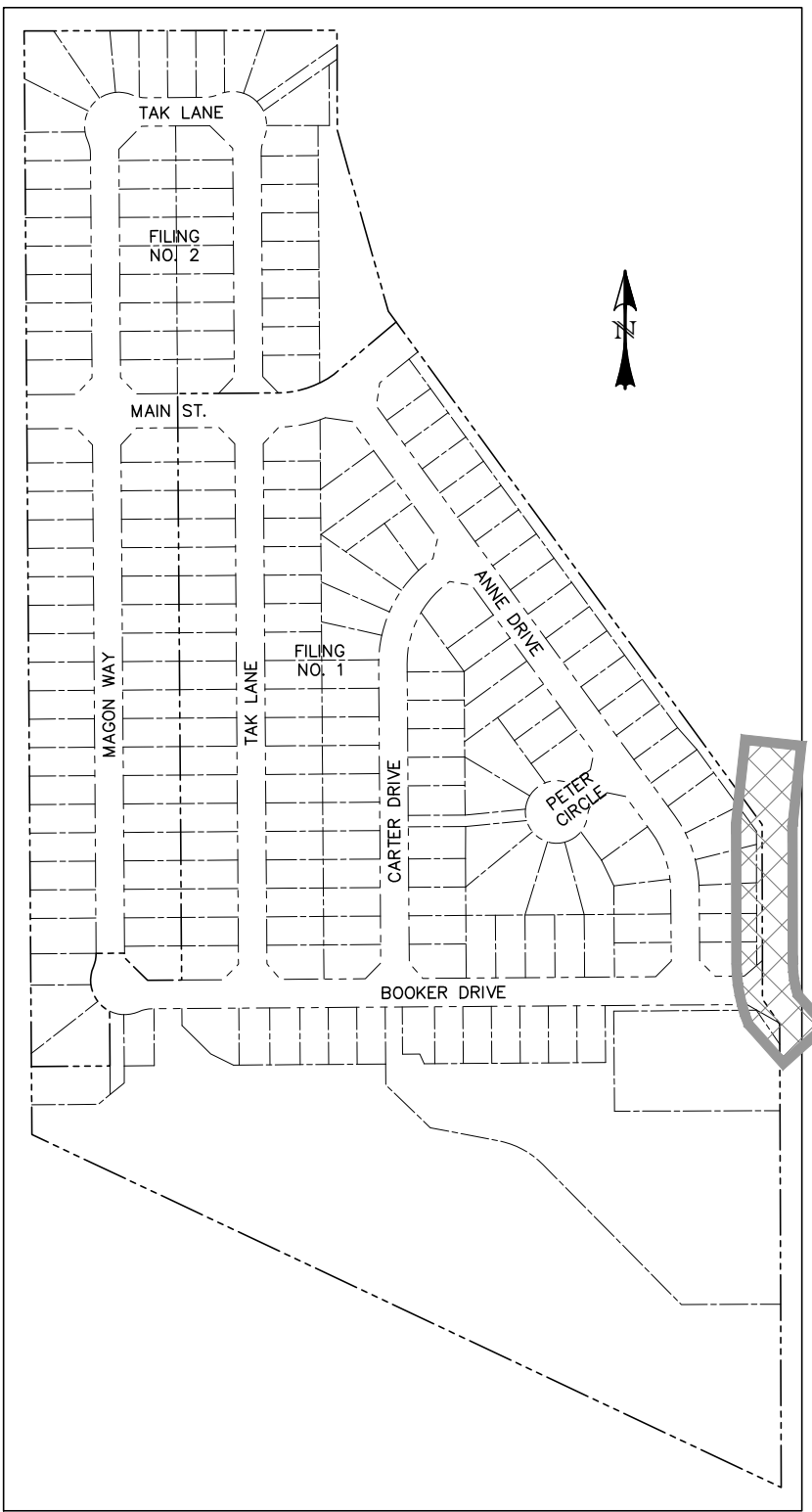
SOUTHMOOR DRIVE - RESIDENTIAL COLLECTOR
STA: 1+00 ~ 11+55

- ★ PED INTERSECTION RAMP (REF: SD 2-41 & SD 2-42)
- ◆ STANDARD CROSSSPAN (REF: SD 2-26)

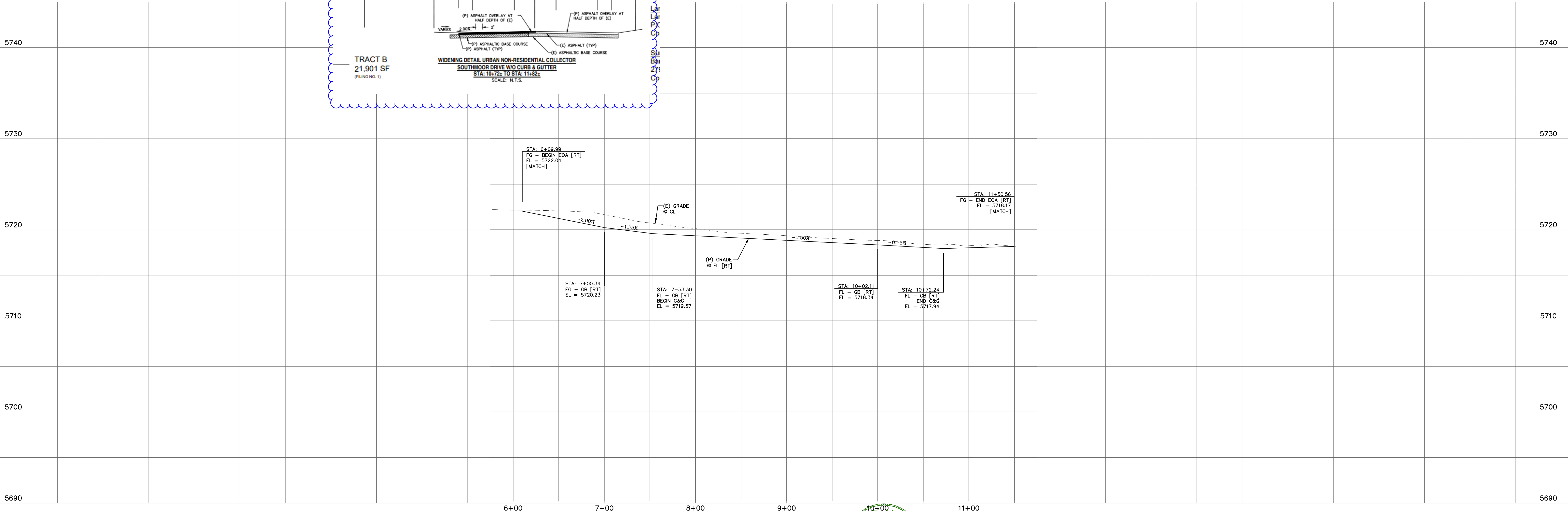
LINE TABLE		
LINE	BEARING	DISTANCE
L2	S0° 07' 59"E	244.74
L4	S0° 07' 59"E	396.04
L5	S34° 27' 20"E	66.49
L6	N39° 05' 39"W	58.54

CURVE TABLE			
CURVE	DELTA	RADIUS	LENGTH
C1	1°00'30"	231.00	4.06
C2	34°19'20"	184.10	110.28
C3	12°16'06"	217.00	46.47

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



LOCATION MAP
SCALE: N.T.S.



REV.	DESCRIPTION	DATE	STREET NAME ABBREVIATIONS:	PREPARED FOR:	PREPARED UNDER:	DESIGNED BY:	DRAWN BY:
1	ADDRESS AGENCY COMMENTS	08/17/20	MAIN STREET BOOKER DRIVE ANNE DRIVE CARTER DRIVE PETER CIRCLE TAK LANE MAGON WAY CUL-DE-SAC - FL	AVATAR EQUITIES, LLC 6800 JERICHO TURNPIKE SUITE 120W #204 SYOSSET, NY 11791	DAVID L. MIJARES, LICENSED PROFESSIONAL ENGINEER NO. 40510	MGP	MGP
						1" = 50'	03/30/21
						JOB NUMBER	SHEET
						17-114	2 OF 27

811 Know what's below.
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STREET NAME ABBREVIATIONS:
MAIN STREET
BOOKER DRIVE
ANNE DRIVE
CARTER DRIVE
PETER CIRCLE
TAK LANE
MAGON WAY
CUL-DE-SAC - FL

= S11
= S12
= S13
= S14
= S15
= S16
= S17
= CDS

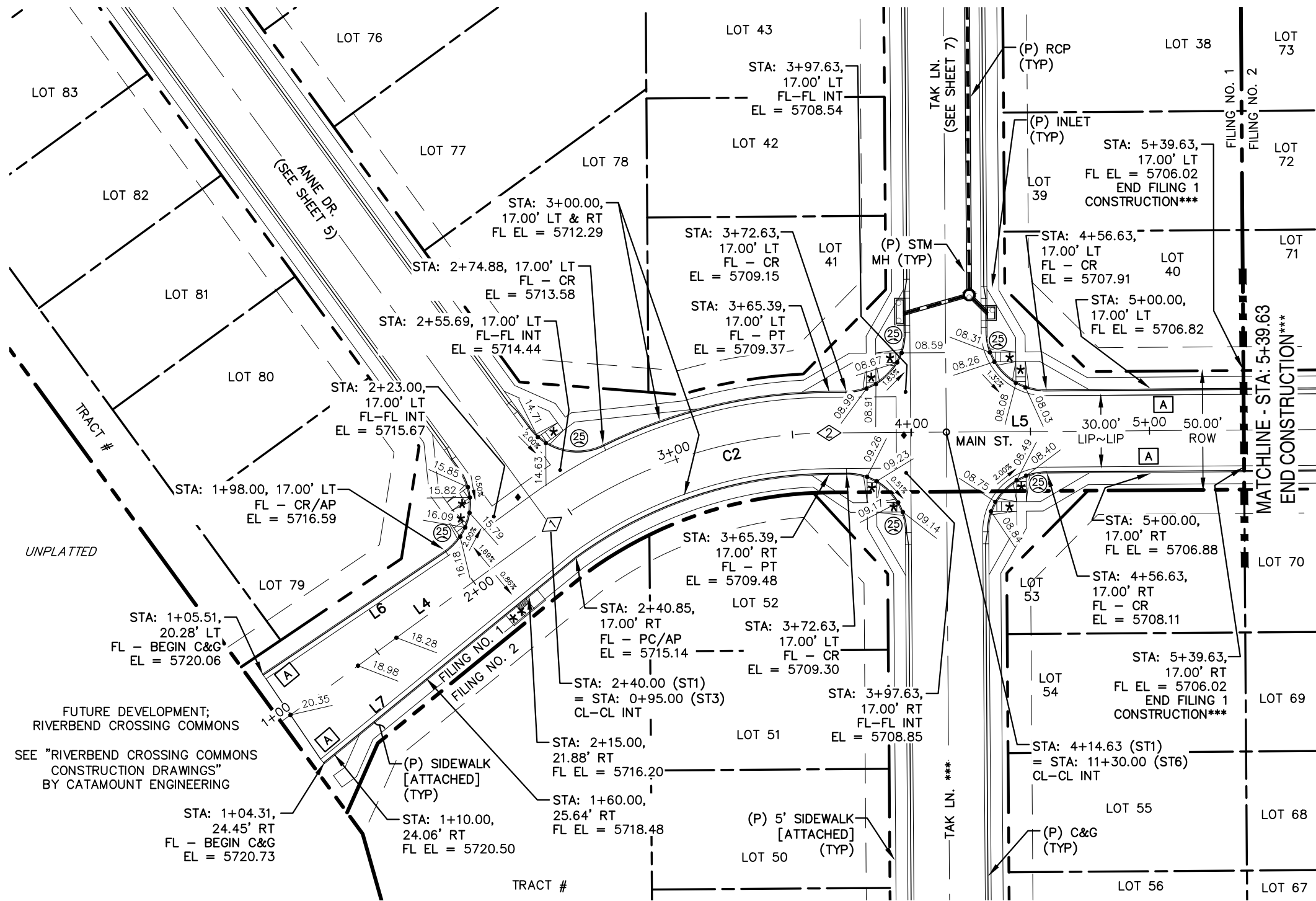
PREPARED FOR:
AVATAR EQUITIES, LLC
6800 JERICHO TURNPIKE
SUITE 120W #204
SYOSSET, NY 11791

PREPARED UNDER:
DAVID L. MIJARES, LICENSED PROFESSIONAL ENGINEER NO. 40510
DATE: 10/19/20

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

RIVERBEND CROSSING
FILING NO. 1
SOUTHMOOR DRIVE
STREET IMPROVEMENT PLAN

DESIGNED BY: MGP
SCALE: 1" = 50'
JOB NUMBER: 17-114
DRAWN BY: MGP
DATE: 03/30/21
SHEET: 2 OF 27



- * PED INTERSECTION RAMP (REF: SD 2-41 & SD 2-42)
- ** PARALLEL PED RAMP (REF: SD 2-50)
- ♦ STANDARD CROSSPAN (REF: SD 2-26)

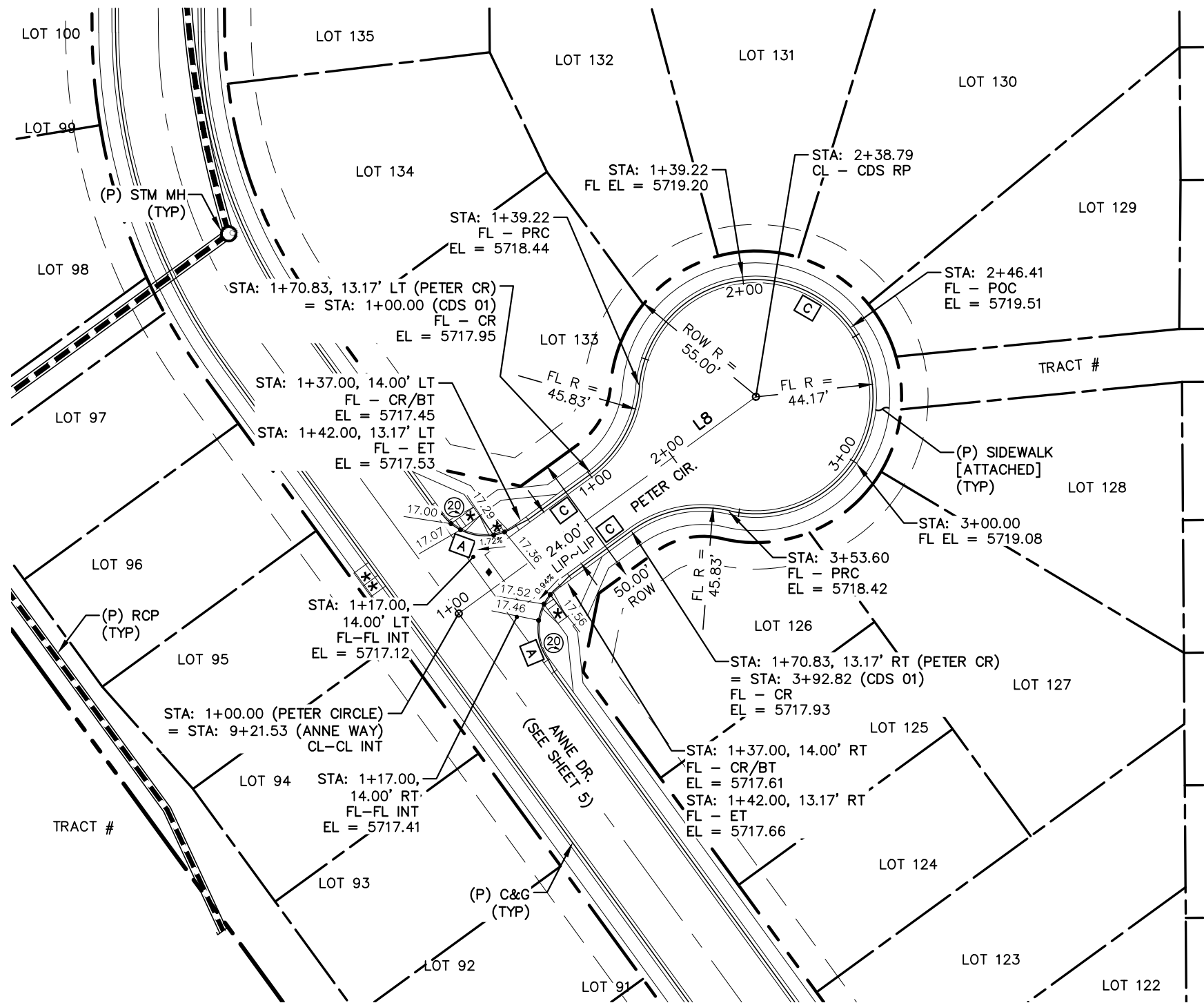
*** FILING CONSTRUCTION NOTE:
SEE "RIVERBEND COMMONS FILING NO. 2 STREETS, STORM SEWER, AND SIGNAGE AND STRIPING" CONSTRUCTION PLANS BY CATAMOUNT ENGINEERING.

LINE TABLE - CL		
LINE	BEARING	DISTANCE
L4	S53° 55' 10"W	140.85
L5	S89° 35' 49"W	174.24
L8	S53° 55' 25"W	138.79

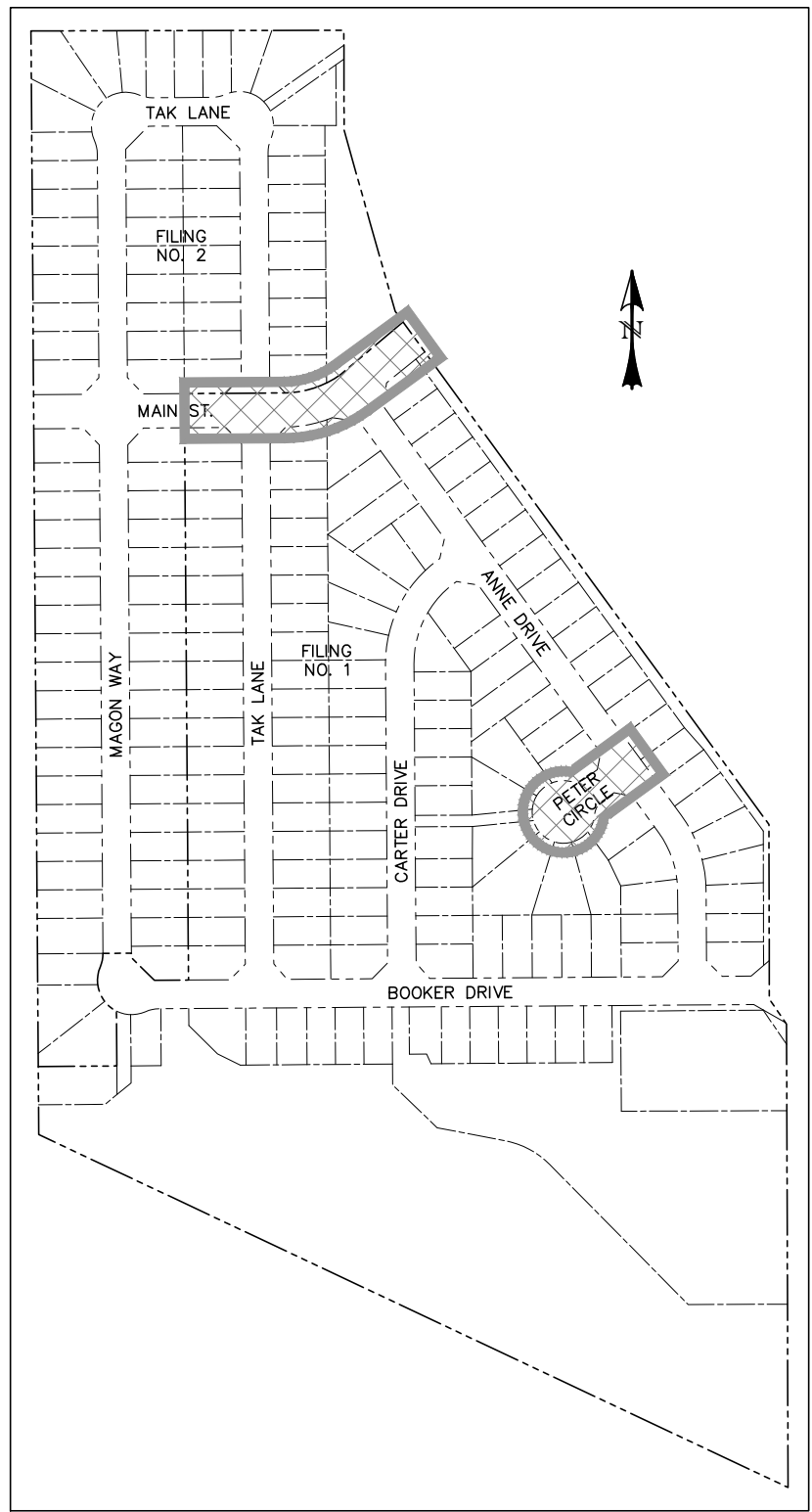
CURVE TABLE - CL			
CURVE	DELTA	RADIUS	LENGTH
C2	35°40'40"	200.00	124.54

LINE TABLE - FL		
LINE	BEARING	DISTANCE
L6	S55° 57' 05"W	92.55
L7	S50° 47' 48"W	136.74

POINT TABLE - CL		
NUMBER	STATION	TYPE
1	2+40.85	PC
2	3+65.39	PT

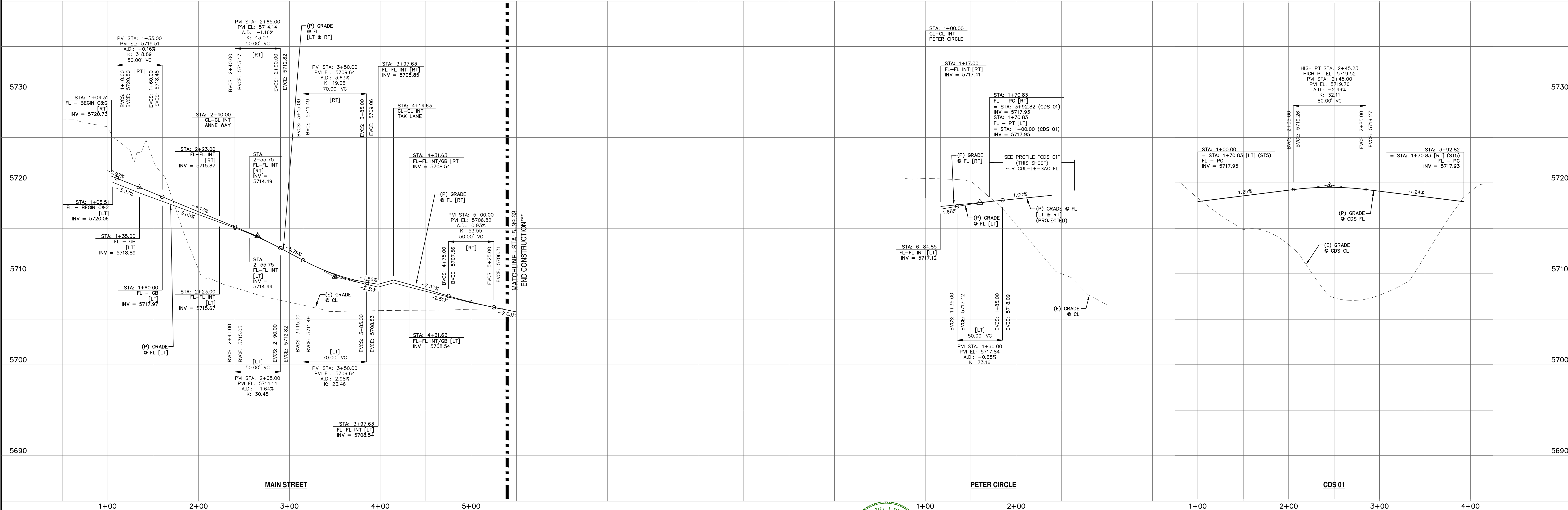


0 50 100
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'



LOCATION MAP
SCALE: N.T.S.

NOTE: SEE SHEETS 20 & 21 FOR PEDESTRIAN RAMP DETAILS



REV.	DESCRIPTION	DATE
1	ADDRESS AGENCY COMMENTS	08/17/20

Know what's below.
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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

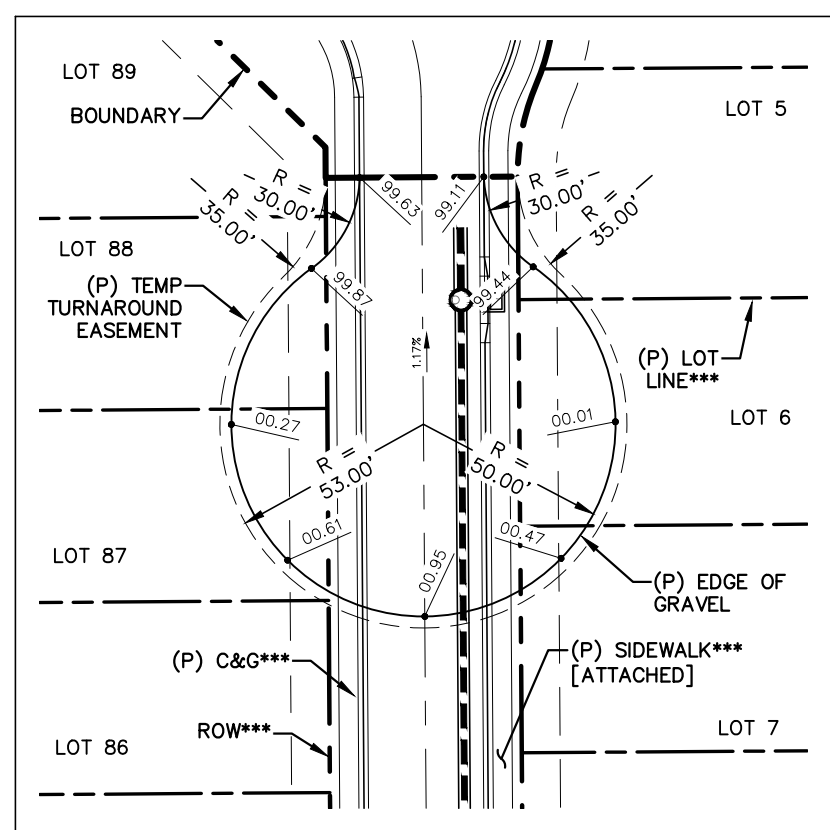
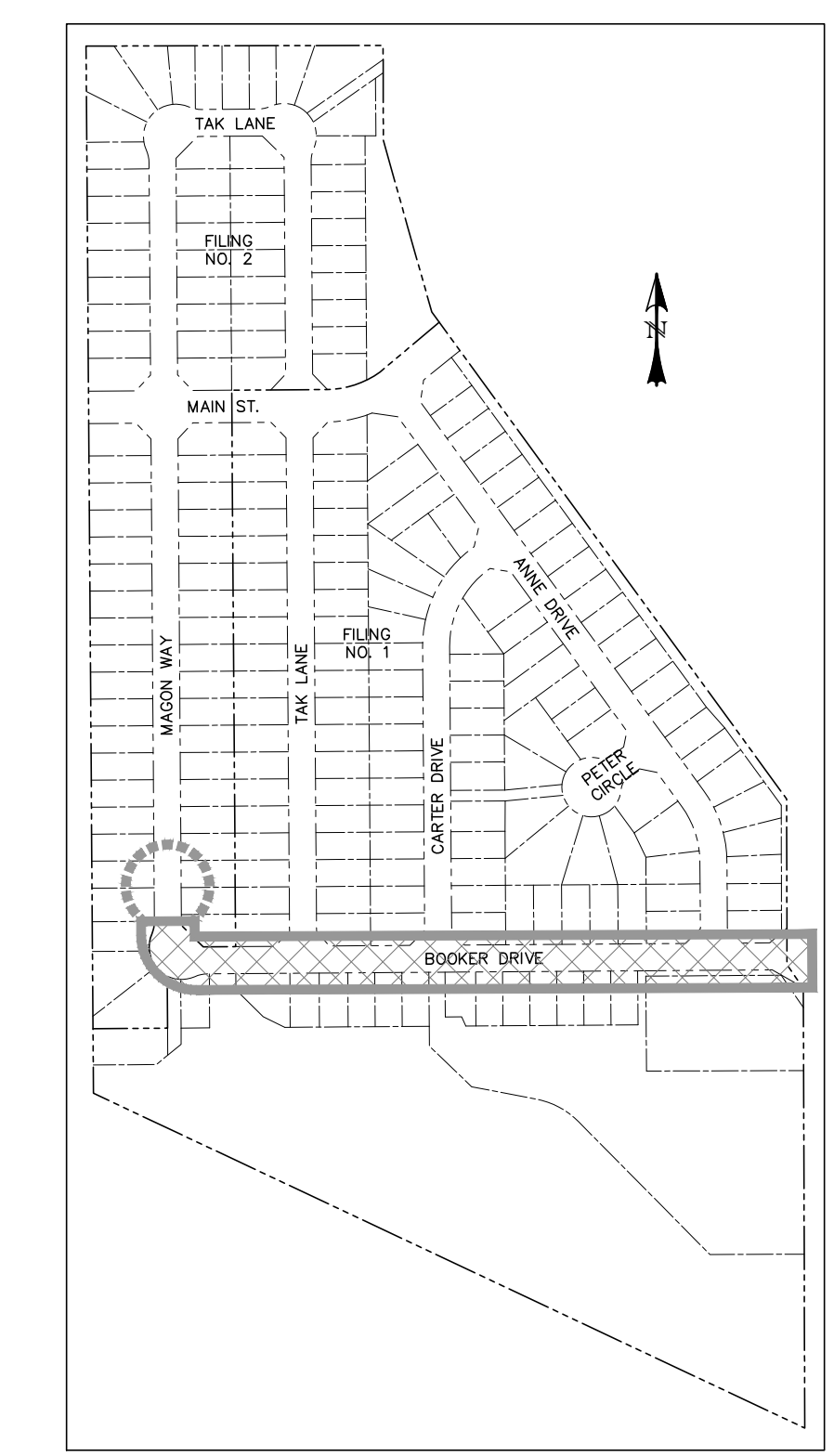
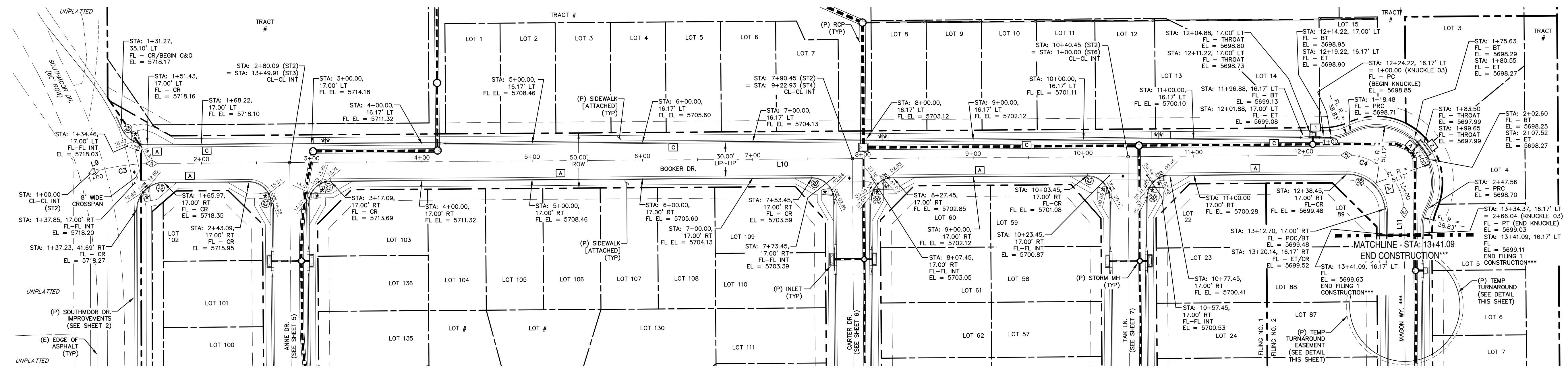
PREPARED UNDER CONTRACT FOR AND BEHALF OF CATAMOUNT ENGINEERING.

DAVID L. MIJARES, LICENSED PROFESSIONAL ENGINEER NO. 40510

10/19/20
DATE

CATAMOUNT ENGINEERING
321 W. HENRIETTA AVE
PO BOX 221
WOOLAND PARK, CO 80686
(719) 428-2124

RIVERBEND CROSSING FILING NO. 1		DESIGNED BY: MGP	DRAWN BY: MGP
MAIN STREET & PETER CIRCLE STREET IMPROVEMENT PLAN		SCALE: 1" = 50'	DATE: 03/30/21
		JOB NUMBER	SHEET
		17-114	3 OF 27



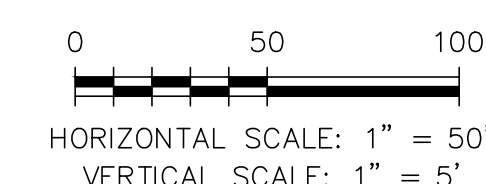
- * PED INTERSECTION RAMP (REF: SD 2-41 & SD 2-42)
- ** PARALLEL PED RAMP (REF: SD 2-50)
- ♦ STANDARD CROSSSPAN (REF: SD 2-26)

LINE TABLE		
LINE	BEARING	DISTANCE
L9	S74° 21' 33"W	1.90
L10	S89° 35' 49"W	1083.37
L11	N0° 24' 11"W	20.96

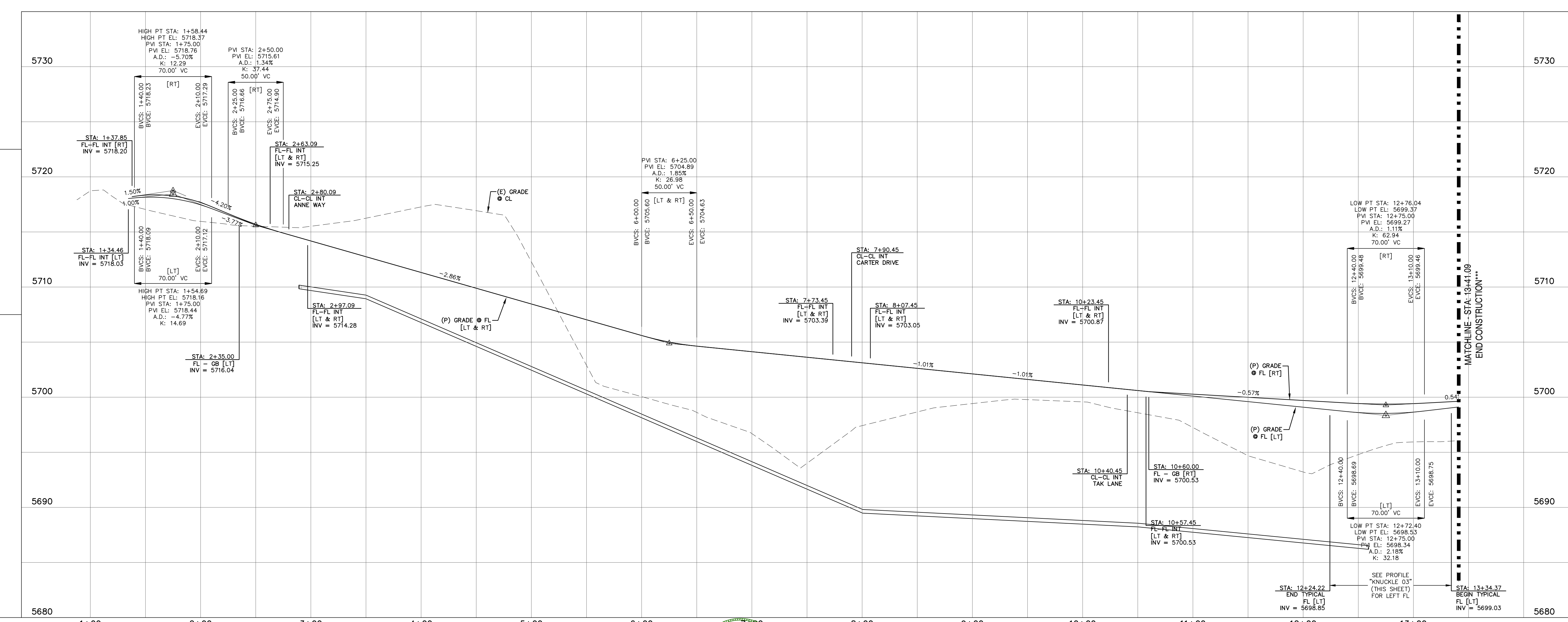
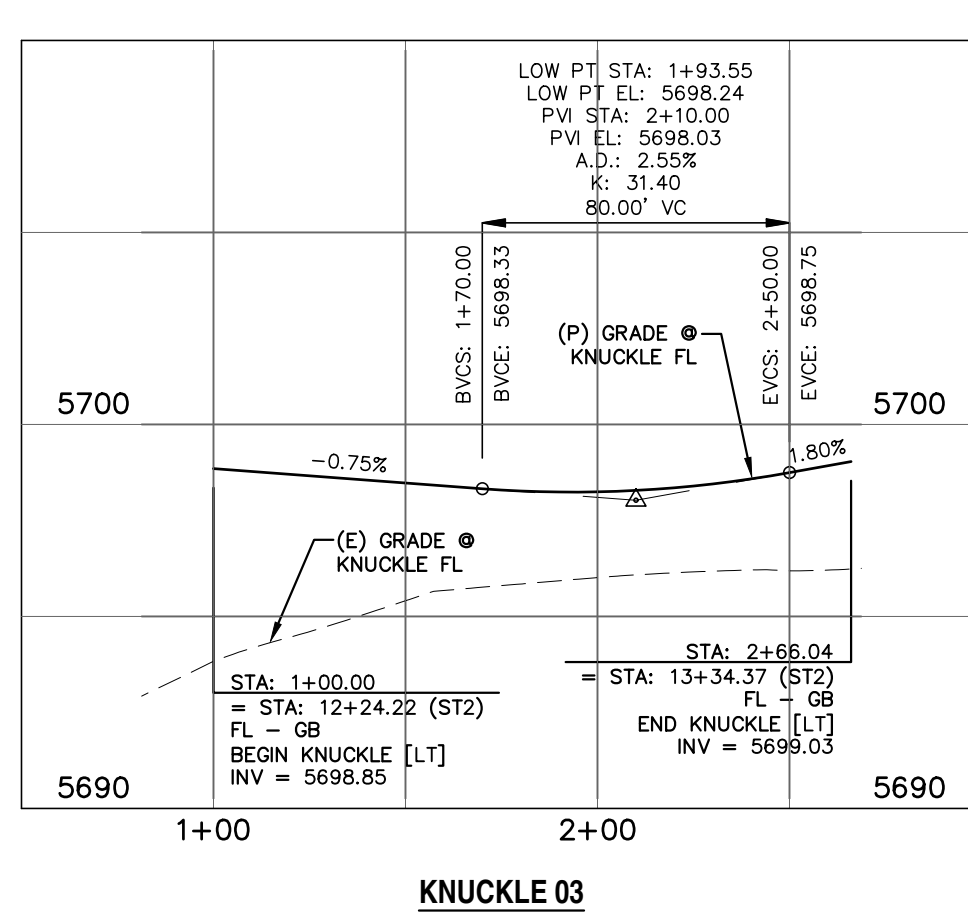
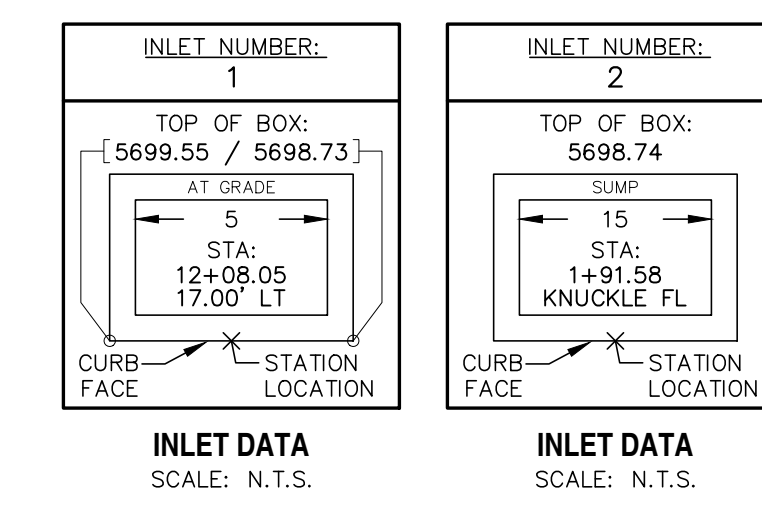
CURVE TABLE			
CURVE	DELTA	RADIUS	LENGTH
C3	151°14'16"	200.00	53.19
C4	90°00'00"	52.00	81.68

POINT TABLE - CL		
NUMBER	STATION	TYPE
3	1+01.90	PC
4	1+55.09	PT
5	12+38.45	PC
6	13+20.14	PT

*** FILING CONSTRUCTION NOTE:
SEE "RIVERBEND COMMONS FILING NO. 2 STREETS, STORM SEWER, AND SIGNAGE AND STRIPING" CONSTRUCTION PLANS BY CATAMOUNT ENGINEERING.



NOTE: SEE SHEETS 20 & 21 FOR PEDESTRIAN RAMP DETAILS



REV. 1

DESCRIPTION ADDRESS AGENCY COMMENTS

DATE 08/17/20

Know what's below.
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For more details visit:
www.call811.com

STREET NAME ABBREVIATIONS:
MAIN STREET
BOOKER DRIVE
ANNE DRIVE
CARTER DRIVE
PETER CIRCLE
TAK LANE
MAZON WAY
CL-CL-SAC - FL

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

PREPARED UNDER CONTRACT AND FOR AND BEHALF OF CATAMOUNT ENGINEERING.

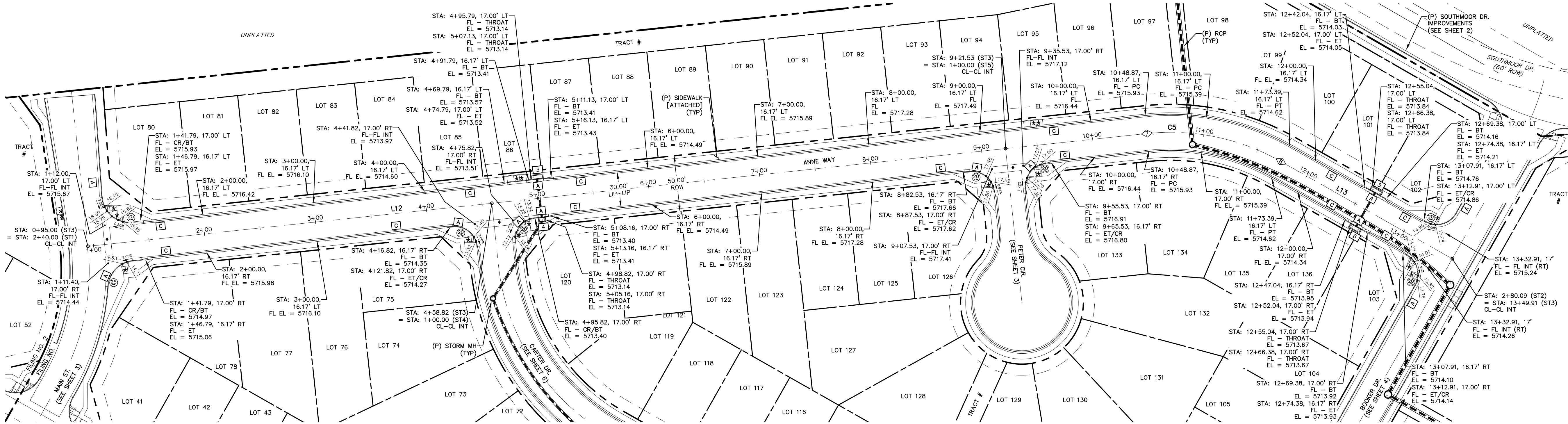
DAVID L. MIJARES, LICENSED PROFESSIONAL ENGINEER NO. 40510
10/19/20
DATE

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

RIVERBEND CROSSING
FILING NO. 1
BOOKER DRIVE
STREET IMPROVEMENT PLAN

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

DRAWN BY: MGP
DATE: 03/30/21
SHEET 4 OF 27

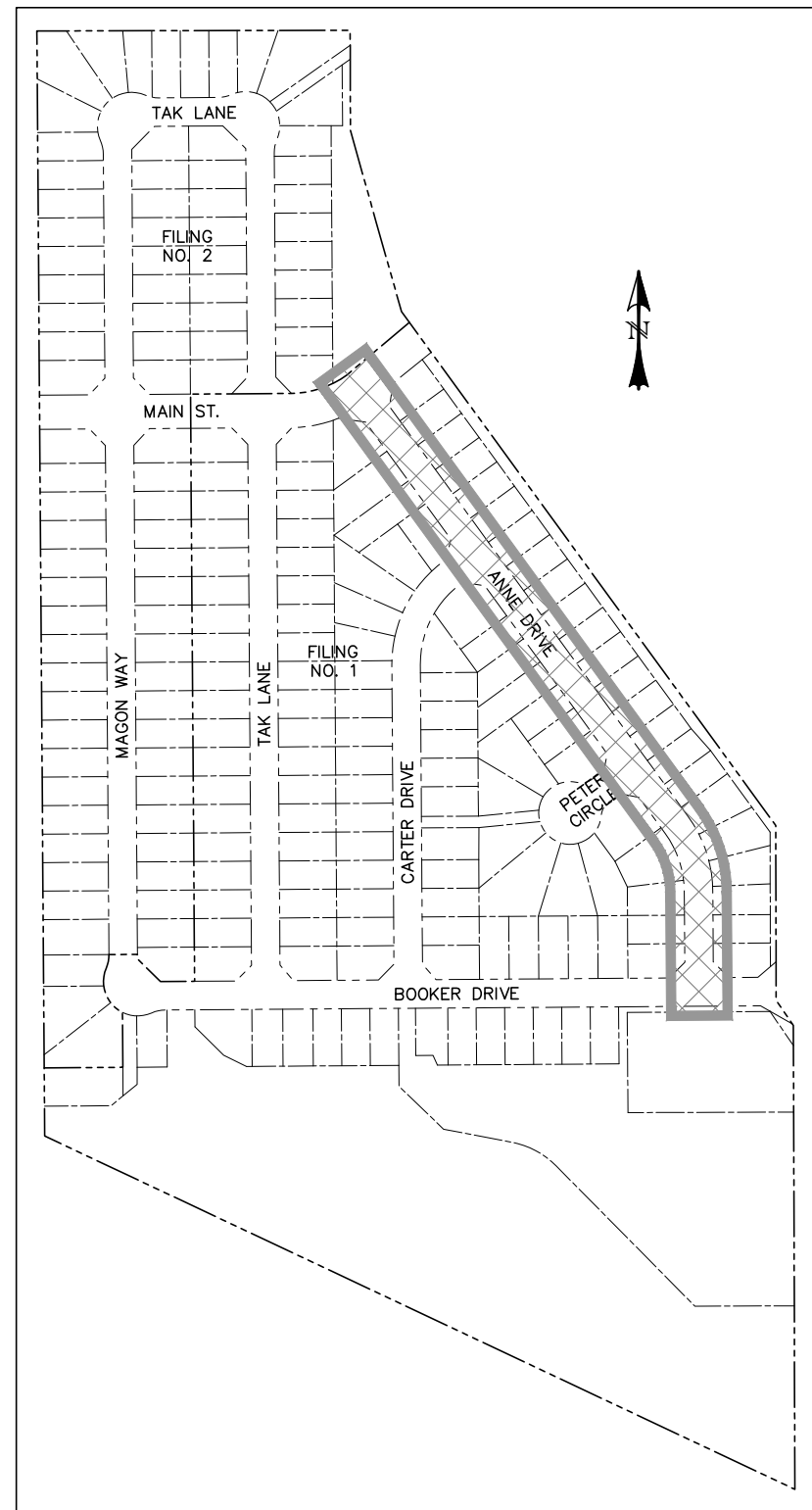


- * PED INTERSECTION RAMP
(REF: SD 2-41 & SD 2-42)
- ** PARALLEL PED RAMP
(REF: SD 2-50)
- ♦ STANDARD CROSSPAN
(REF: SD 2-26)

LINE TABLE		
LINE	BEARING	DISTANCE
L12	S36° 04' 35"E	953.87
L13	S0° 24' 11"E	176.52

CURVE TABLE			
CURVE	DELTA	RADIUS	LENGTH
C5	35°40'24"	200.00	124.52

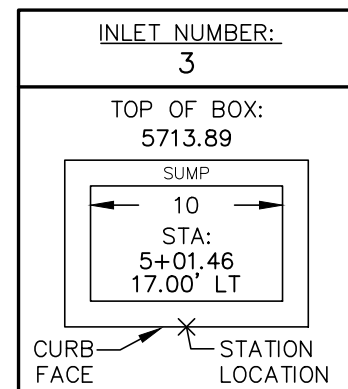
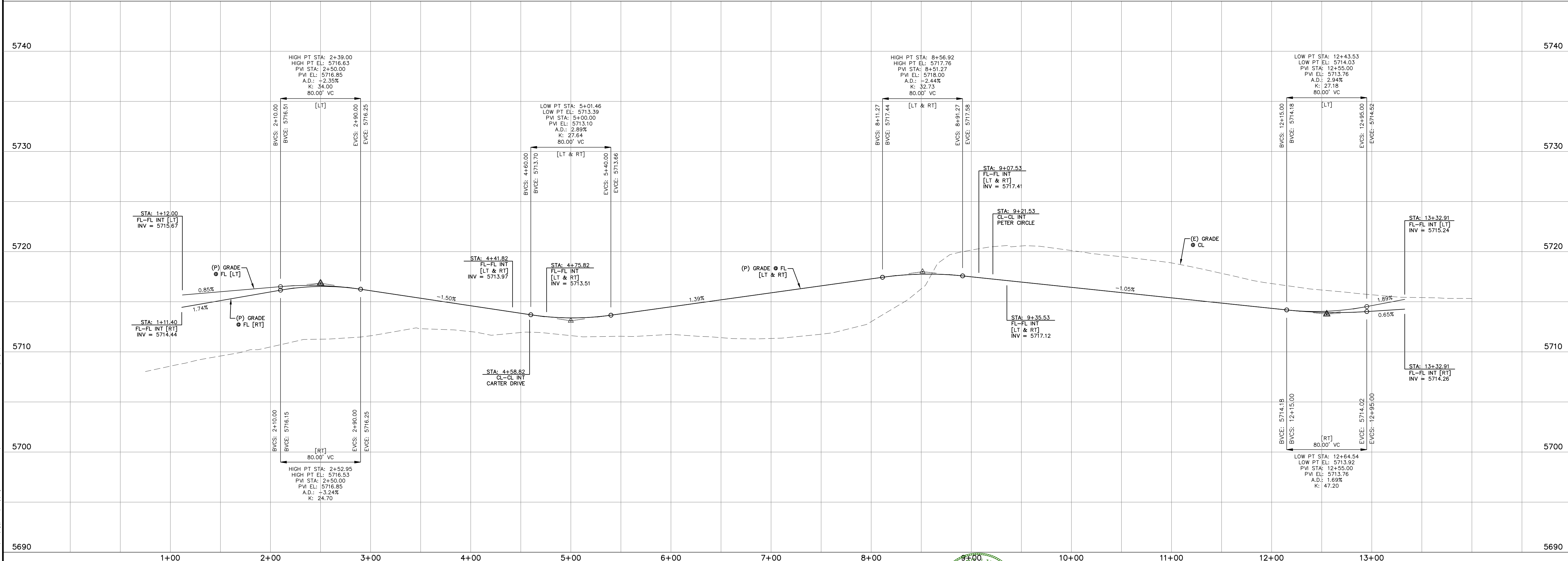
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'



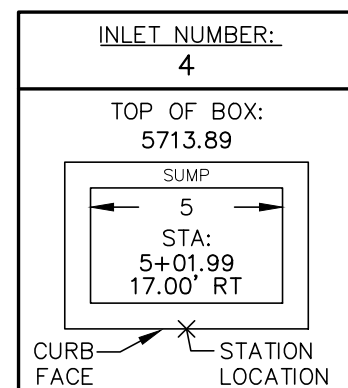
LOCATION MAP
SCALE: N.T.S.

POINT TABLE - CL		
NUMBER	STATION	TYPE
7	10+48.87	PC
8	11+73.39	PT

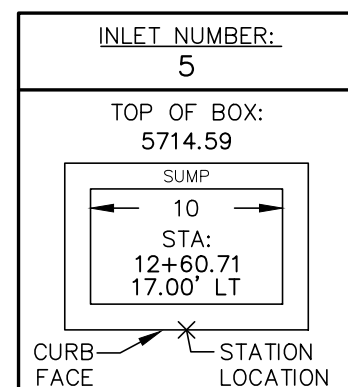
NOTE: SEE SHEETS 20 & 21 FOR PEDESTRIAN RAMP DETAILS



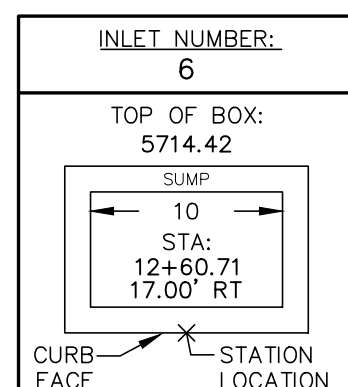
INLET DATA
SCALE: N.T.S.



INLET DATA
SCALE: N.T.S.



INLET DATA
SCALE: N.T.S.



INLET DATA
SCALE: N.T.S.

REV.	DESCRIPTION	DATE
1	ADDRESS AGENCY COMMENTS	08/17/20

811 Know what's below.
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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

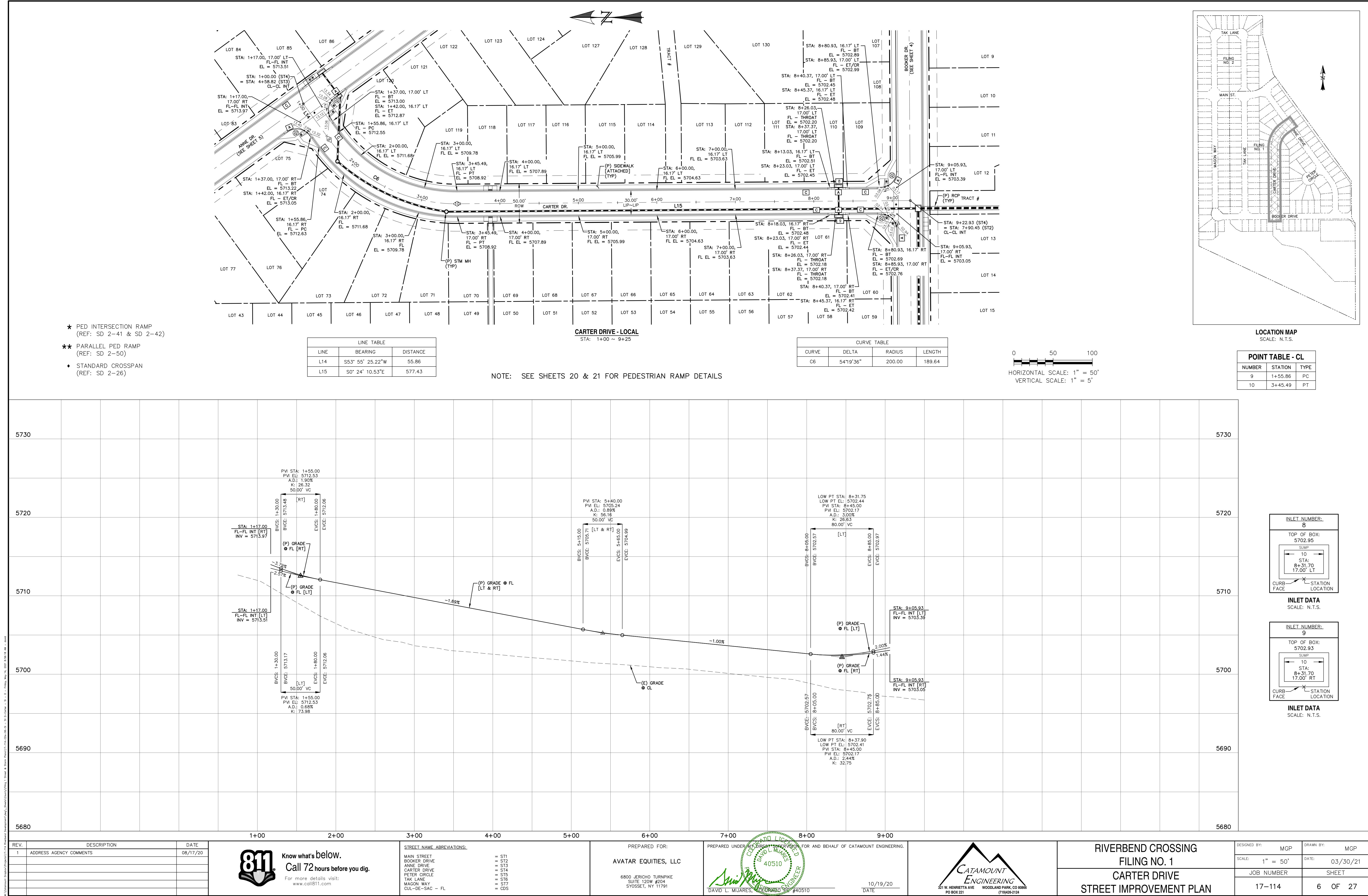
PREPARED FOR:
AVATAR EQUITIES, LLC
6800 JERICHO TURNPIKE
SUITE 120W #204
SYOSSET, NY 11791

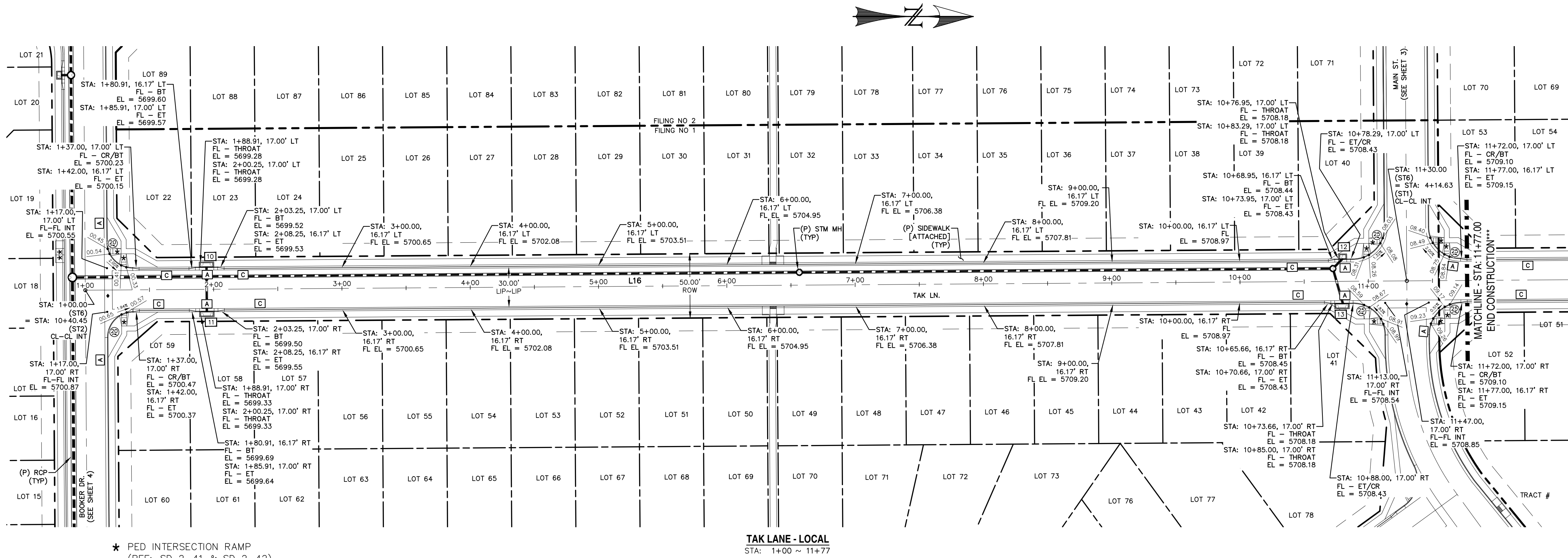
PREPARED UNDER CONTRACT FOR AND BEHALF OF CATAMOUNT ENGINEERING.
DAVID L. MIJARES
40510
10/19/20
DATE

CATAMOUNT ENGINEERING
321 W. HENRIETTA AVE
PO BOX 221
WOODLAND PARK, CO 80096
(719) 428-2124

RIVERBEND CROSSING
FILING NO. 1
ANNE DRIVE
STREET IMPROVEMENT PLAN

DESIGNED BY:	MGP	DRAWN BY:	MGP
SCALE:	1" = 50'	DATE:	03/30/21
JOB NUMBER	17-114	SHEET	5 OF 27





- ★ PED INTERSECTION RAMP
(REF: SD 2-41 & SD 2-42)
- ★★ PARALLEL PED RAMP
(REF: SD 2-50)
- ◆ STANDARD CROSSSPAN
(REF: SD 2-26)

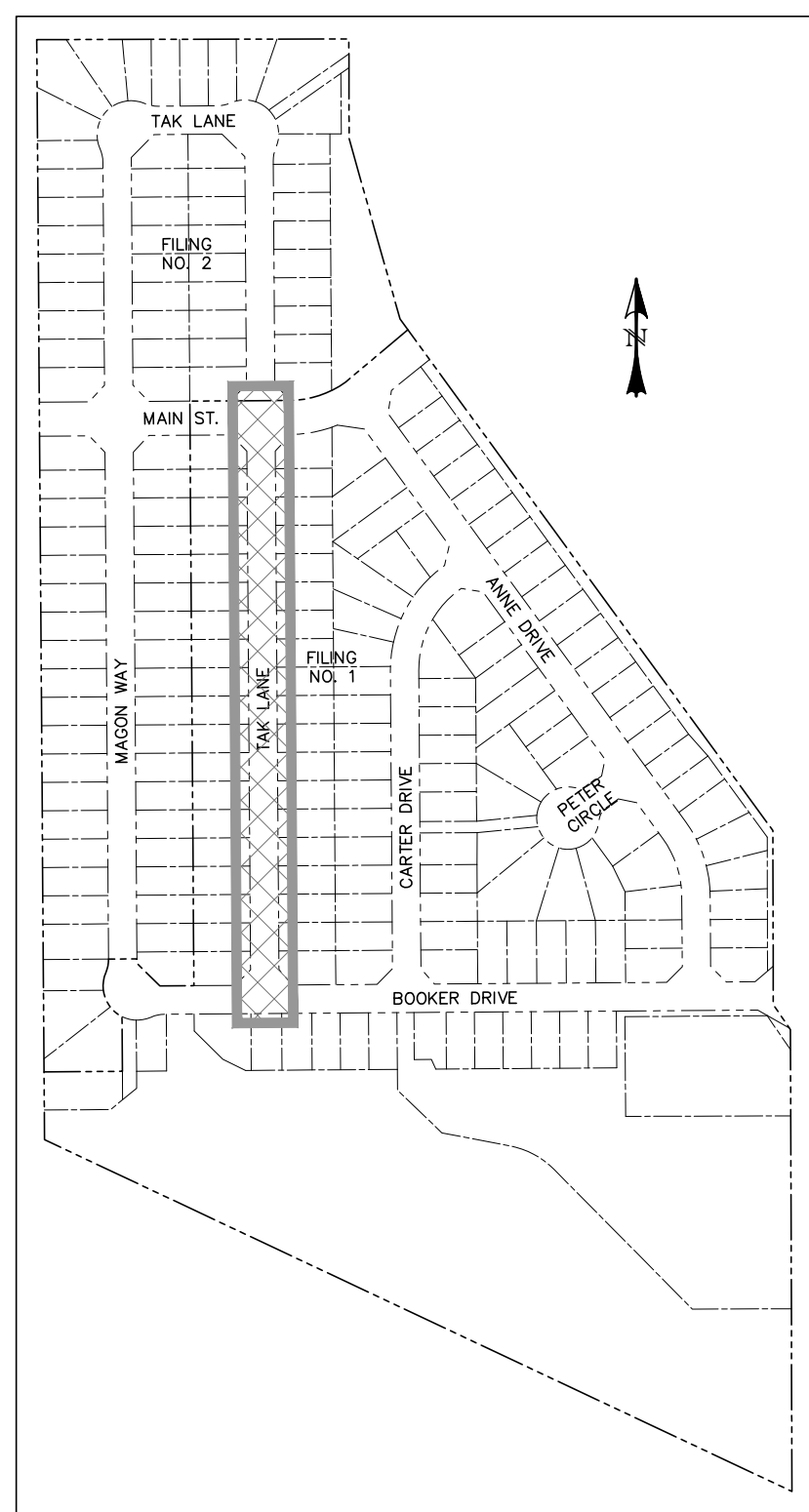
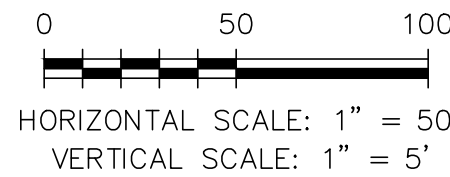
LINE TABLE		
LINE	BEARING	DISTANCE
L16	N0° 24' 10"W	1076.50

TAK LANE - LOCAL
STA: 1+00 ~ 11+77

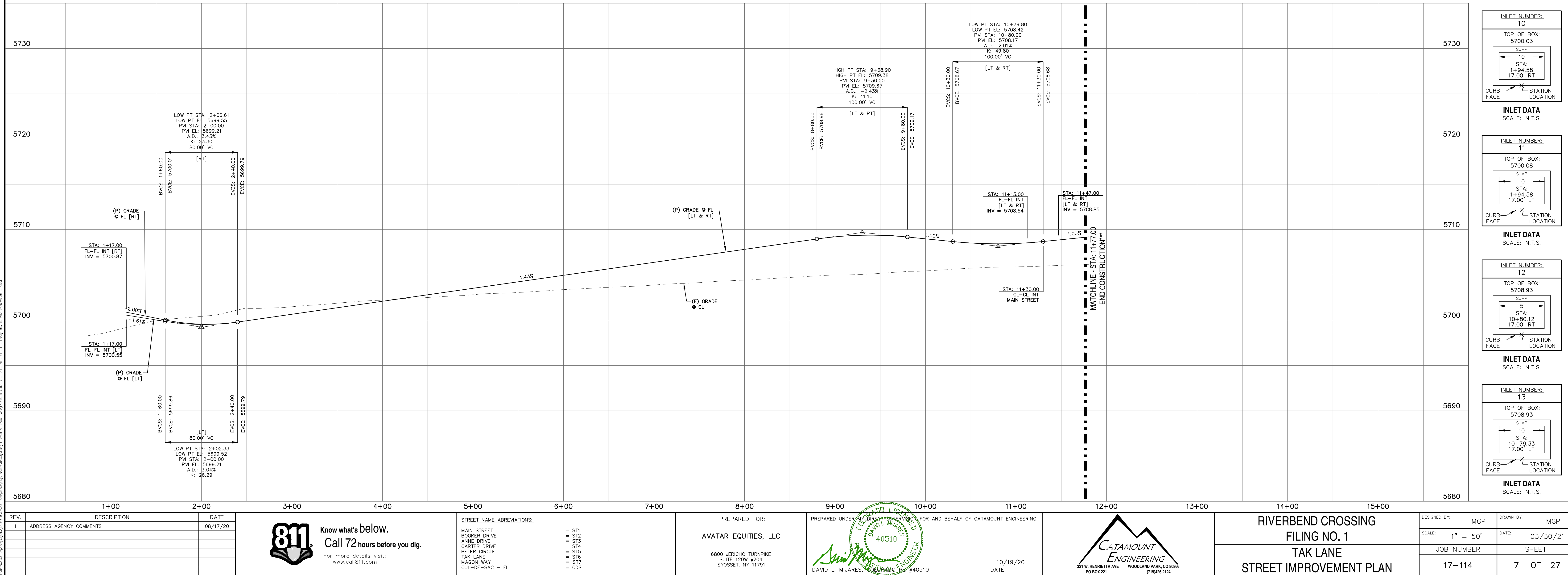
NOTE: SEE SHEETS 20 & 21 FOR PEDESTRIAN RAMP DETAILS

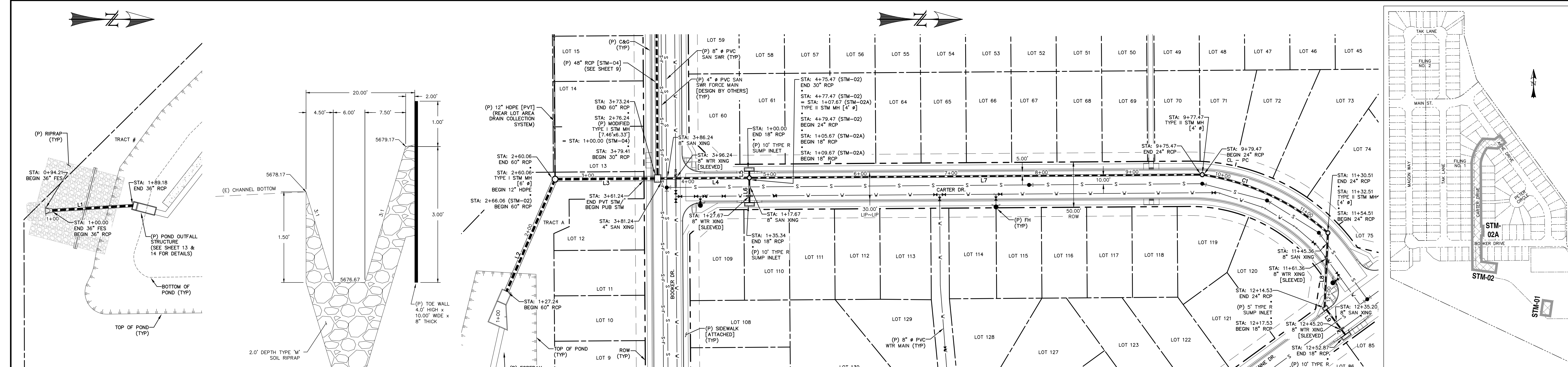
*** FILING CONSTRUCTION NOTE:

SEE "RIVERBEND COMMONS FILING NO. 2, STREETS,
STORM SEWER, AND SIGNAGE & STRIPING
CONSTRUCTION PLANS BY CATAMOUNT ENGINEERING.



LOCATION MAP
SCALE: N.T.S.



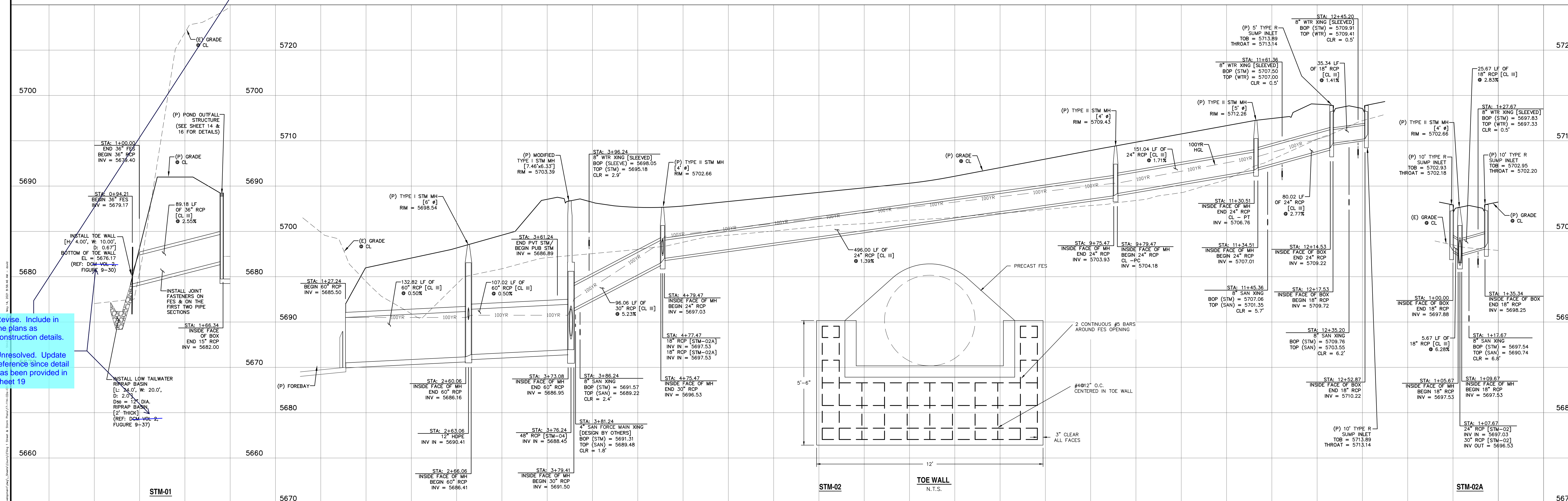


CURVE TABLE			
CURVE	DELTA	RADIUS	LENGTH
C1	32°03'06"	270.00	151.04

LINE TABLE		
LINE	BEARING	DISTANCE
L1	N3° 25' 38"W	89.18
L2	N66° 36' 18"W	132.82
L3	N0° 24' 11"W	107.02

LINE TABLE		
LINE	BEARING	DISTANCE
L4	N0° 24' 11"W	96.06
L5	S89° 35' 49"W	5.67
L6	S89° 35' 49"W	25.67

LINE TABLE		
LINE	BEARING	DISTANCE
L7	N0° 24' 11"W	496.00
L8	S87° 28' 35"E	80.02
L9	N53° 03' 31"E	35.34



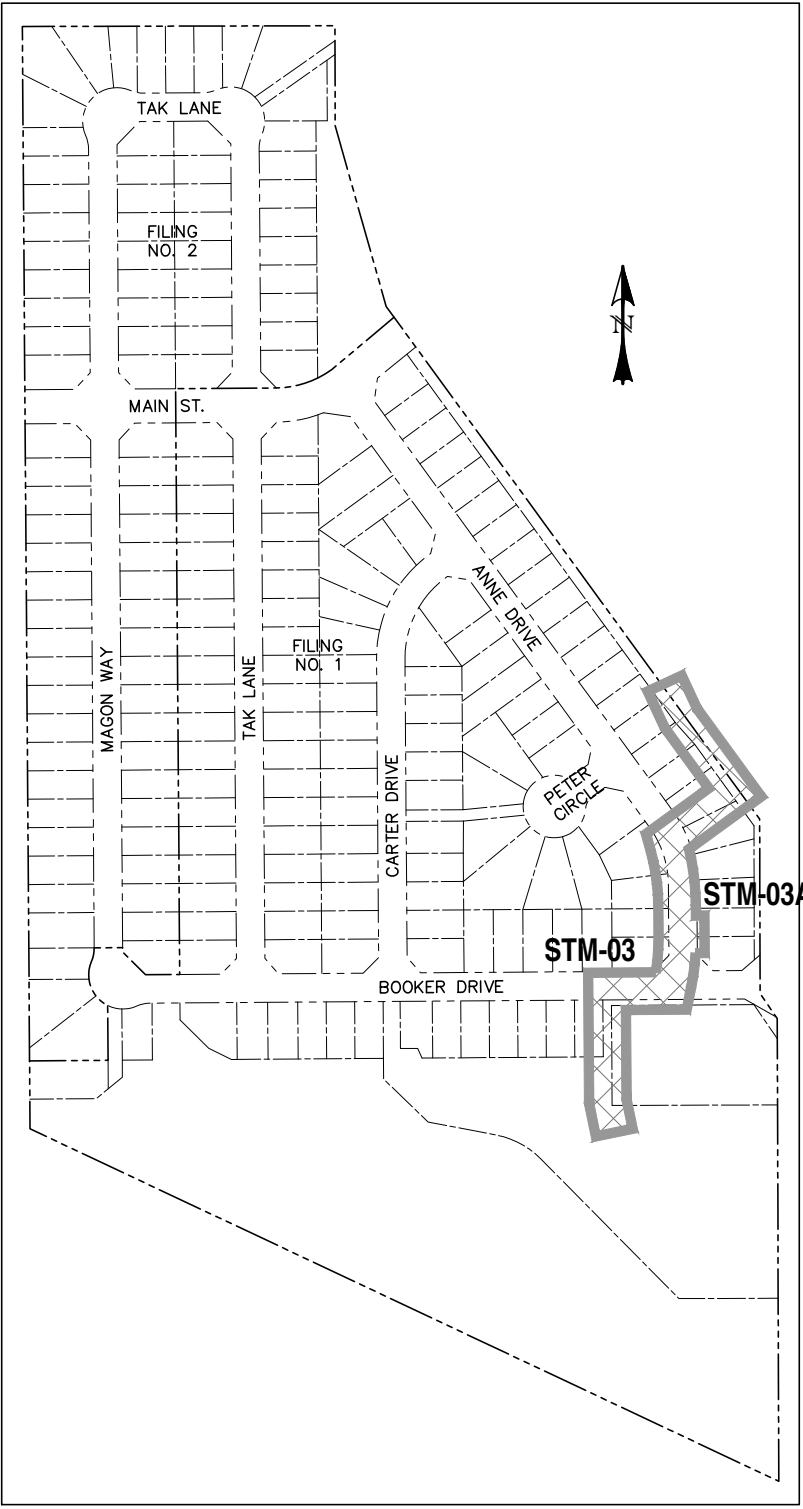
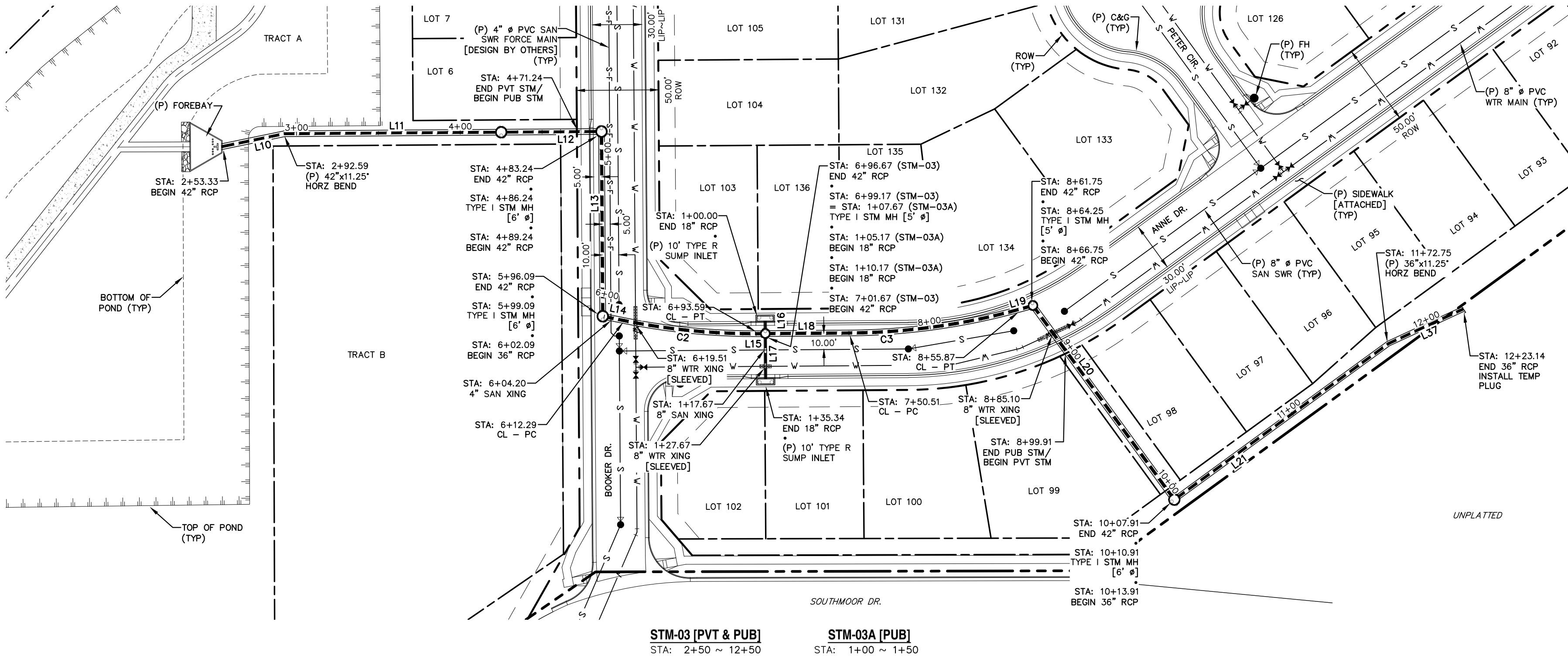
Revise. Include in the plans as construction details.
Unresolved. Update reference since detail has been provided in sheet 19

REV. 1 ADDRESS AGENCY COMMENTS 08/17/20	811 Know what's below. Call 72 hours before you dig. For more details visit: www.call811.com	PREPARED FOR: AVATAR EQUINES, LLC 6800 JERICHO TURNPIKE SUITE 120W #204 SYOSSET, NY 11791	PREPARED UNDER CONTRACT FOR AND BEHALF OF CATAMOUNT ENGINEERING. DAVID L. MUJARES, LICENSED PROFESSIONAL ENGINEER #40510 10/19/20 DATE	CATAMOUNT ENGINEERING 221 W. HENRIETTA AVE PO BOX 221 WOODLAND PARK, CO 80866 (719) 426-2124	RIVERBEND CROSSING FILING NO. 1 STORM SEWER PLAN & PROFILE	DESIGNED BY: MGP SCALE: 1" = 50' JOB NUMBER: 17-114	DRAWN BY: MGP DATE: 03/30/21 SHEET: 8 OF 27
---	--	--	--	---	--	---	---

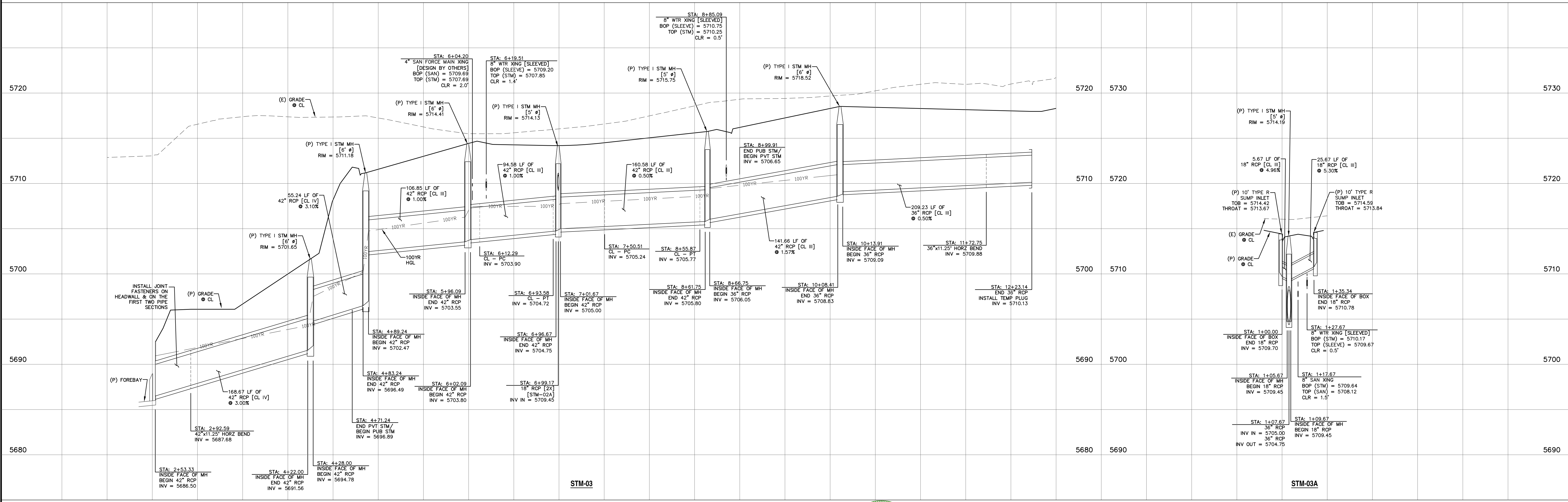
LINE TABLE		
LINE	BEARING	DISTANCE
L10	N11° 39' 11"W	39.27
L11	N0° 24' 11"W	129.41
L12	N0° 24' 11"W	55.24
L13	N89° 35' 49"E	106.85
L14	S11° 29' 15"W	10.20
L15	N0° 09' 27"W	3.08
L16	S89° 35' 49"W	5.17
L17	N89° 35' 49"E	25.17
L18	N0° 24' 11"W	48.85
L19	N15° 29' 41"W	5.88
L20	N53° 55' 25"E	141.16
L21	N36° 04' 35"W	158.84
L37	N24° 49' 35"W	50.39

CURVE TABLE			
CURVE	DELTA	RADIUS	LENGTH
C2	11°38'42"	400.00	81.30
C3	15°05'30"	400.00	105.36

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



LOCATION MAP
SCALE: N.T.S.



REV.	DESCRIPTION	DATE
1	ADDRESS AGENCY COMMENTS	08/17/20

Know what's below.
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For more details visit:
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PREPARED FOR:
AVATAR EQUITIES, LLC
6800 JERICHO TURNPIKE
SUITE 120W #204
SYOSSET, NY 11791

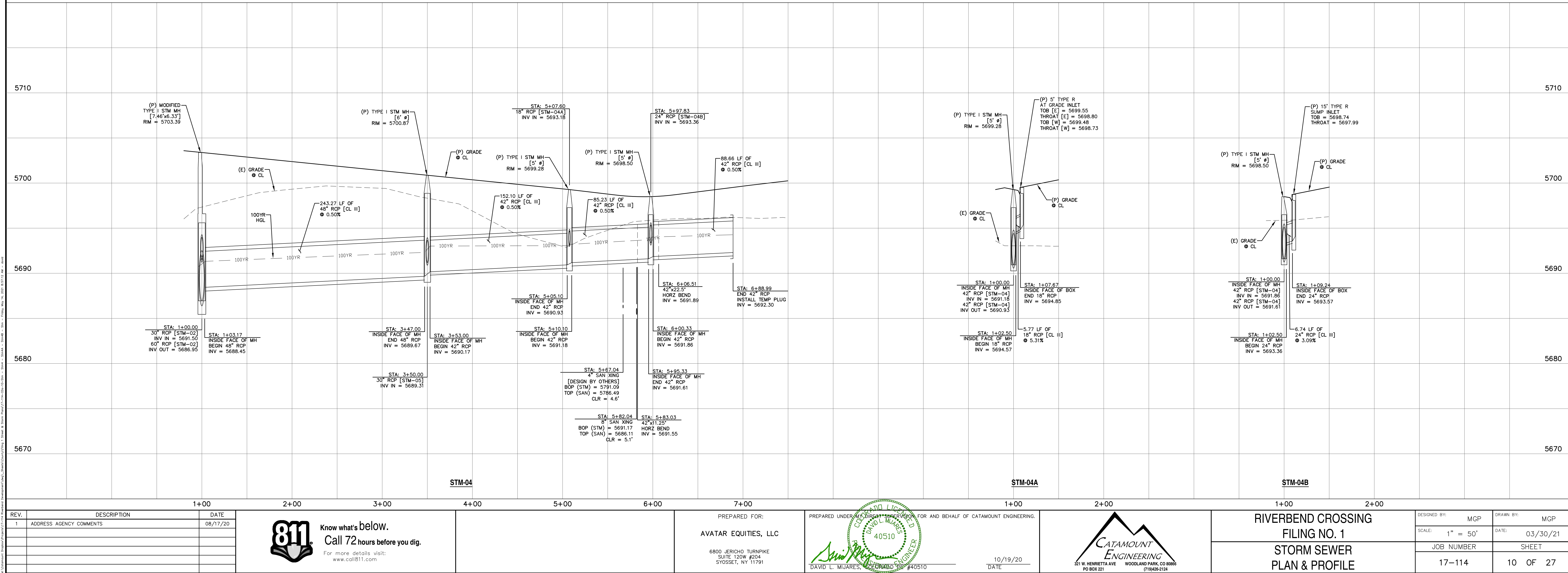
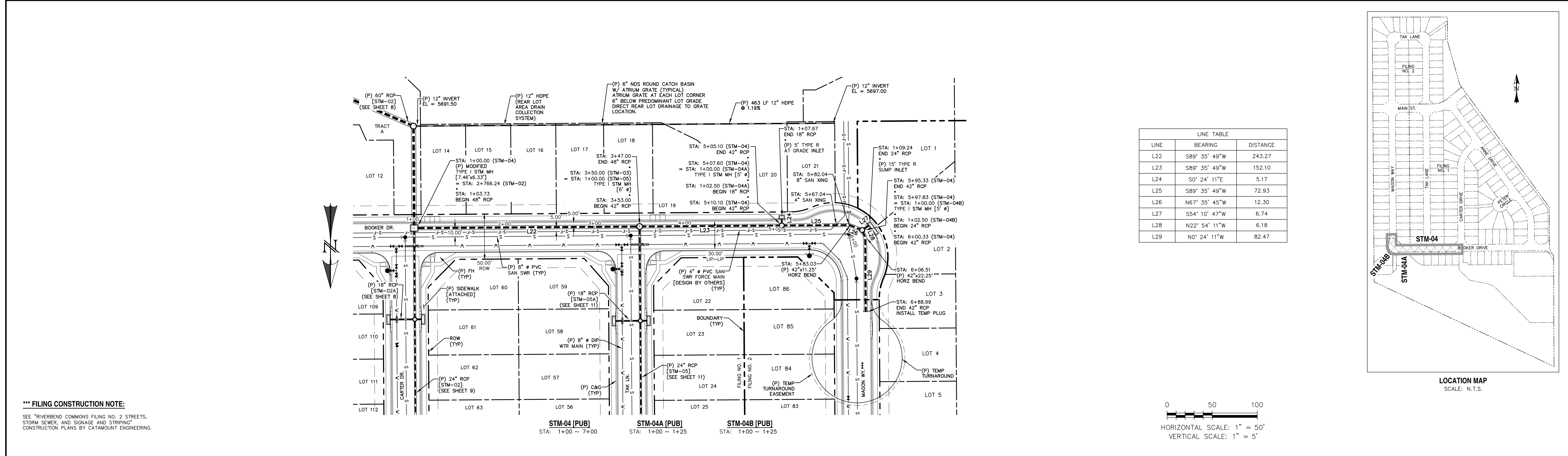
PREPARED UNDER CONTRACT FOR AND BEHALF OF CATAMOUNT ENGINEERING.
DAVID L. MUJARES, LICENSED PROFESSIONAL ENGINEER #40510
10/19/20
DATE

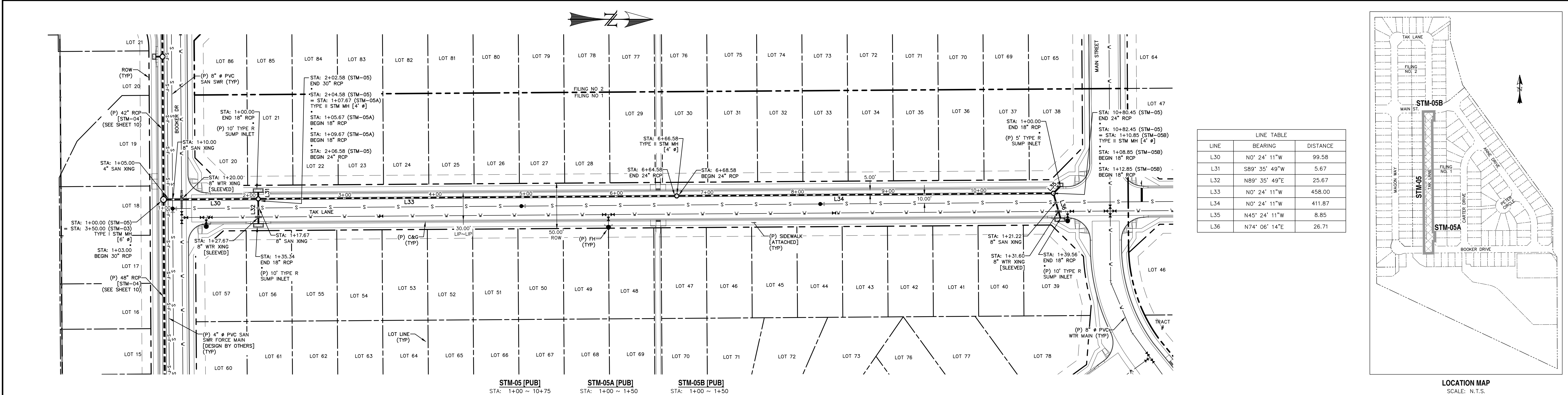
CATAMOUNT ENGINEERING
221 W. HENRIETTA AVE
PO BOX 221
WOODLAND PARK, CO 80866
(719)426-2124

RIVERBEND CROSSING
FILING NO. 1
STORM SEWER 03 & 03A
PLAN & PROFILE

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

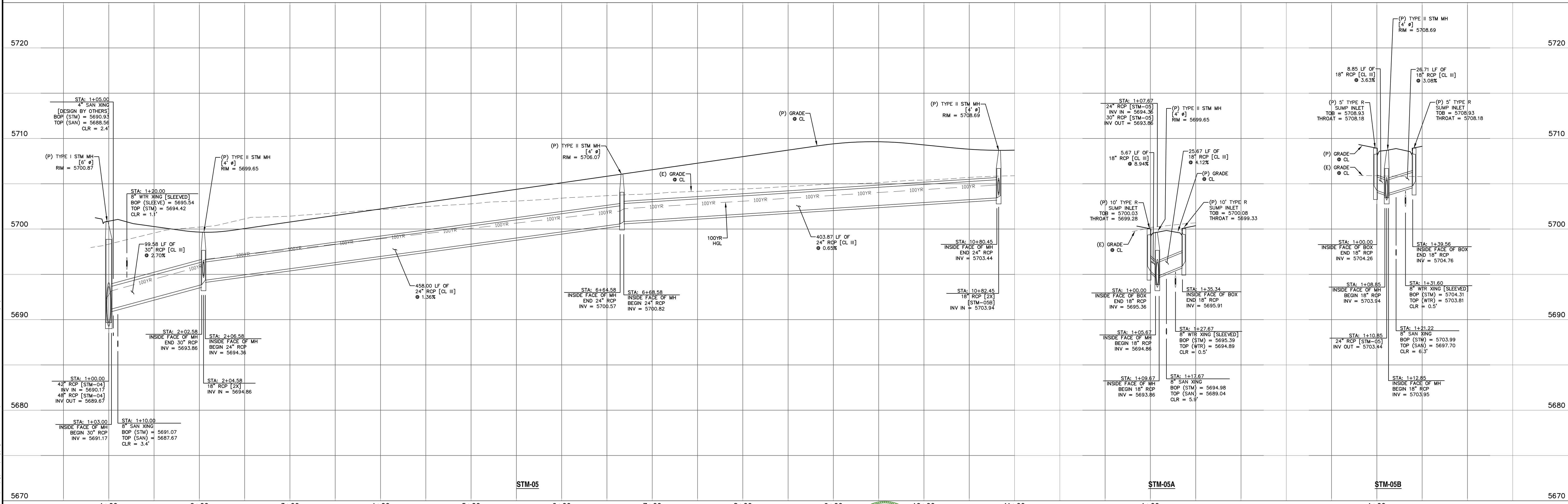
DRAWN BY: MGP
DATE: 03/30/21
SHEET: 9 OF 27





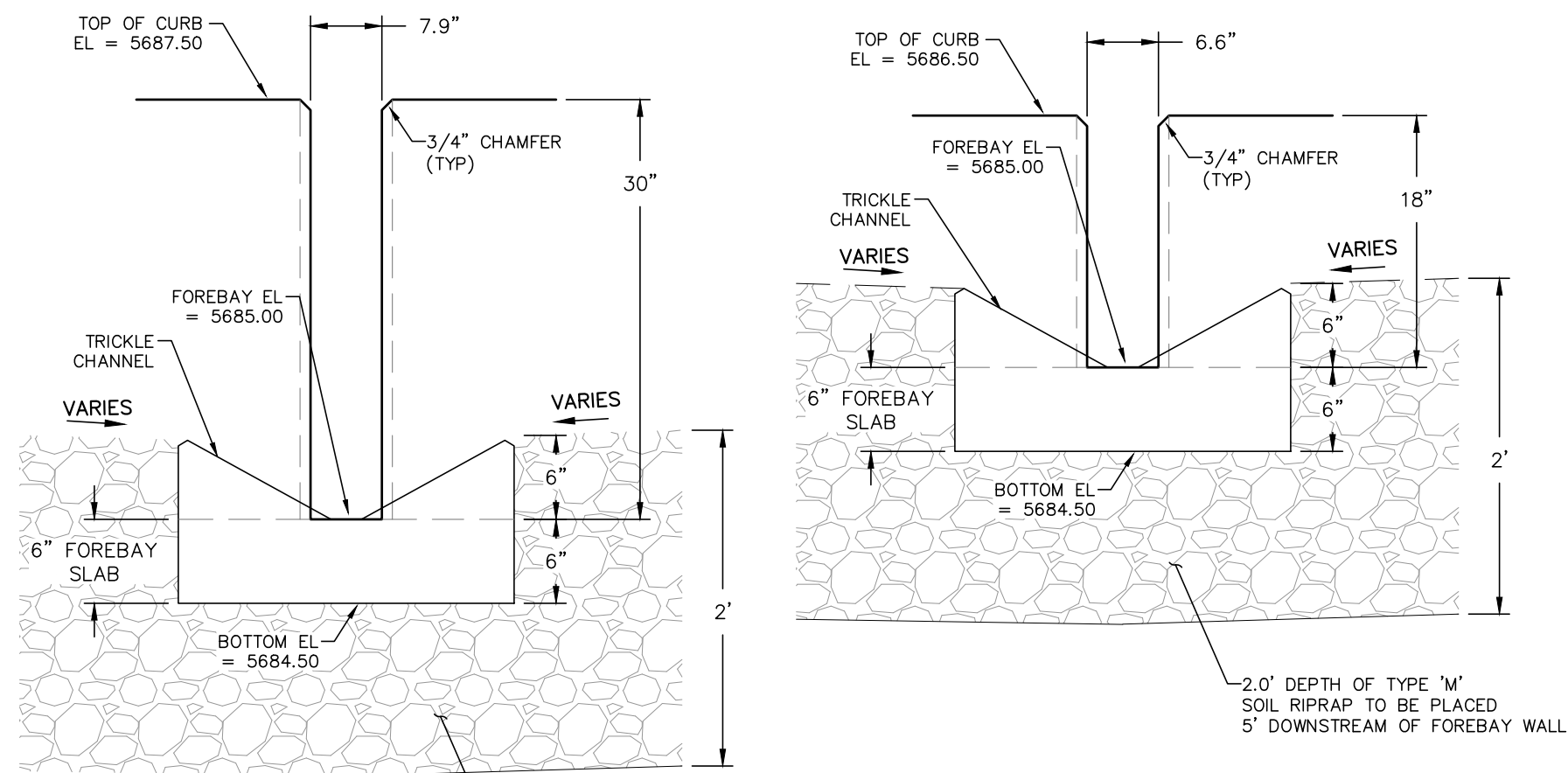
LINE TABLE		
LINE	BEARING	DISTANCE
L30	N0° 24' 11"W	99.58
L31	S89° 35' 49"W	5.67
L32	N89° 35' 49"E	25.67
L33	N0° 24' 11"W	458.00
L34	N0° 24' 11"W	411.87
L35	N45° 24' 11"W	8.85
L36	N74° 06' 14"E	26.71

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

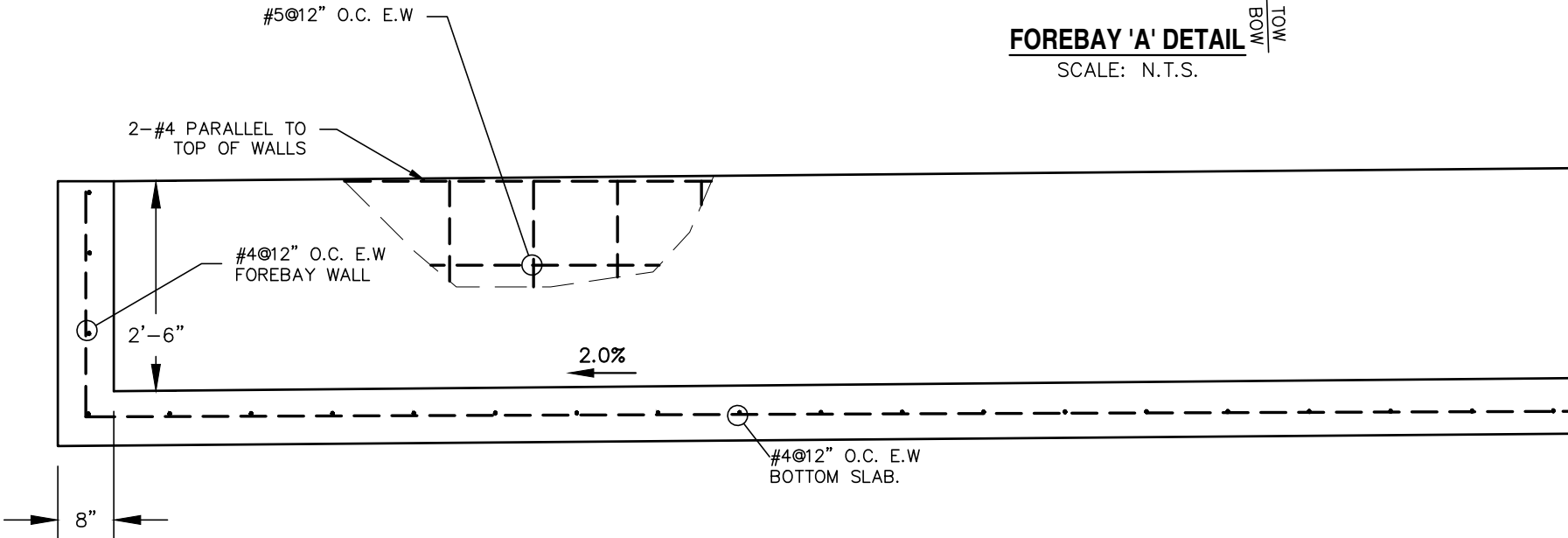
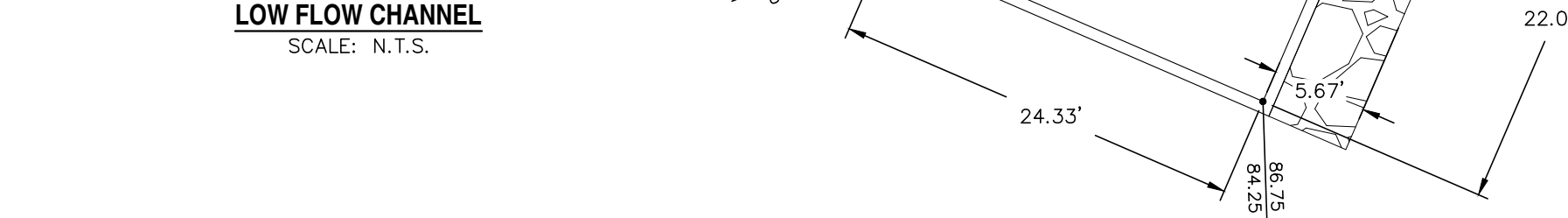
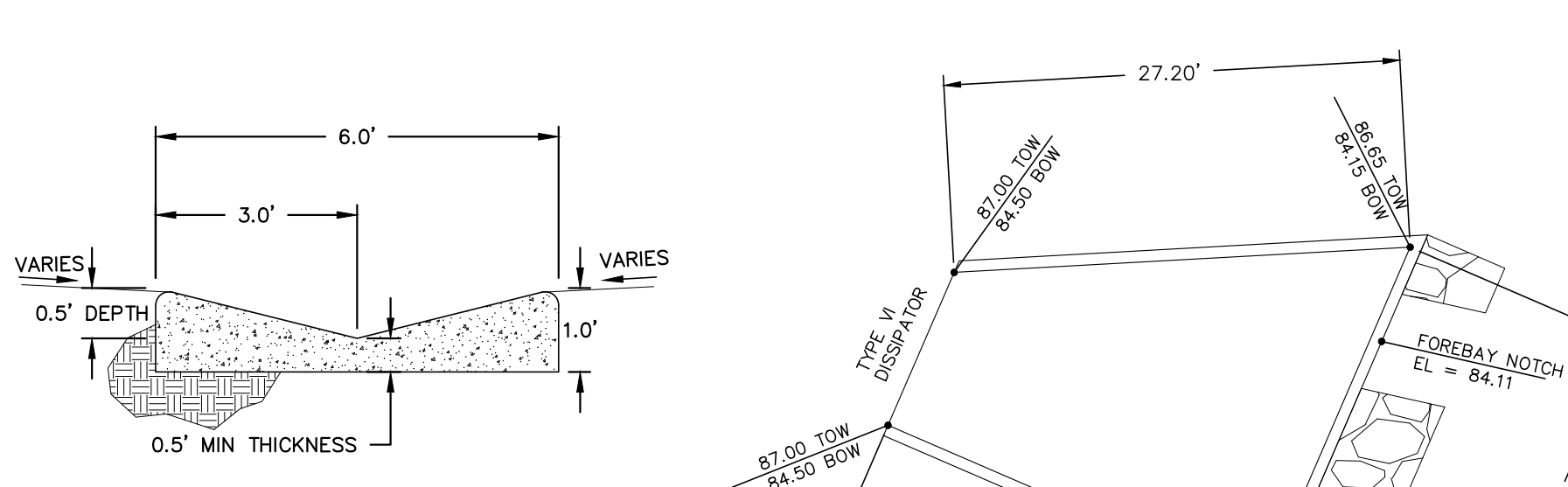


REV. 1 ADDRESS AGENCY COMMENTS	DATE 08/17/20	 Know what's below. Call 72 hours before you dig. For more details visit: www.call811.com	PREPARED FOR: AVATAR EQUITIES, LLC 6800 JERICHO TURNPIKE SUITE 120W #204 SYOSSET, NY 11791	PREPARED UNDER CONTRACT FOR AND BEHALF OF CATAMOUNT ENGINEERING. DAVID L. MJARES, LICENSED PROFESSIONAL ENGINEER 10/19/20 DATE	 CATAMOUNT ENGINEERING 231 W. HENRIETTA AVE PO BOX 221 WOODLAND PARK, CO 80866 (719) 426-2124	RIVERBEND CROSSING FILING NO. 1 STORM SEWER PLAN & PROFILE	DESIGNED BY: MGP SCALE: 1" = 50' JOB NUMBER 17-114	DRAWN BY: MGP DATE: 03/30/21 SHEET 11 OF 27

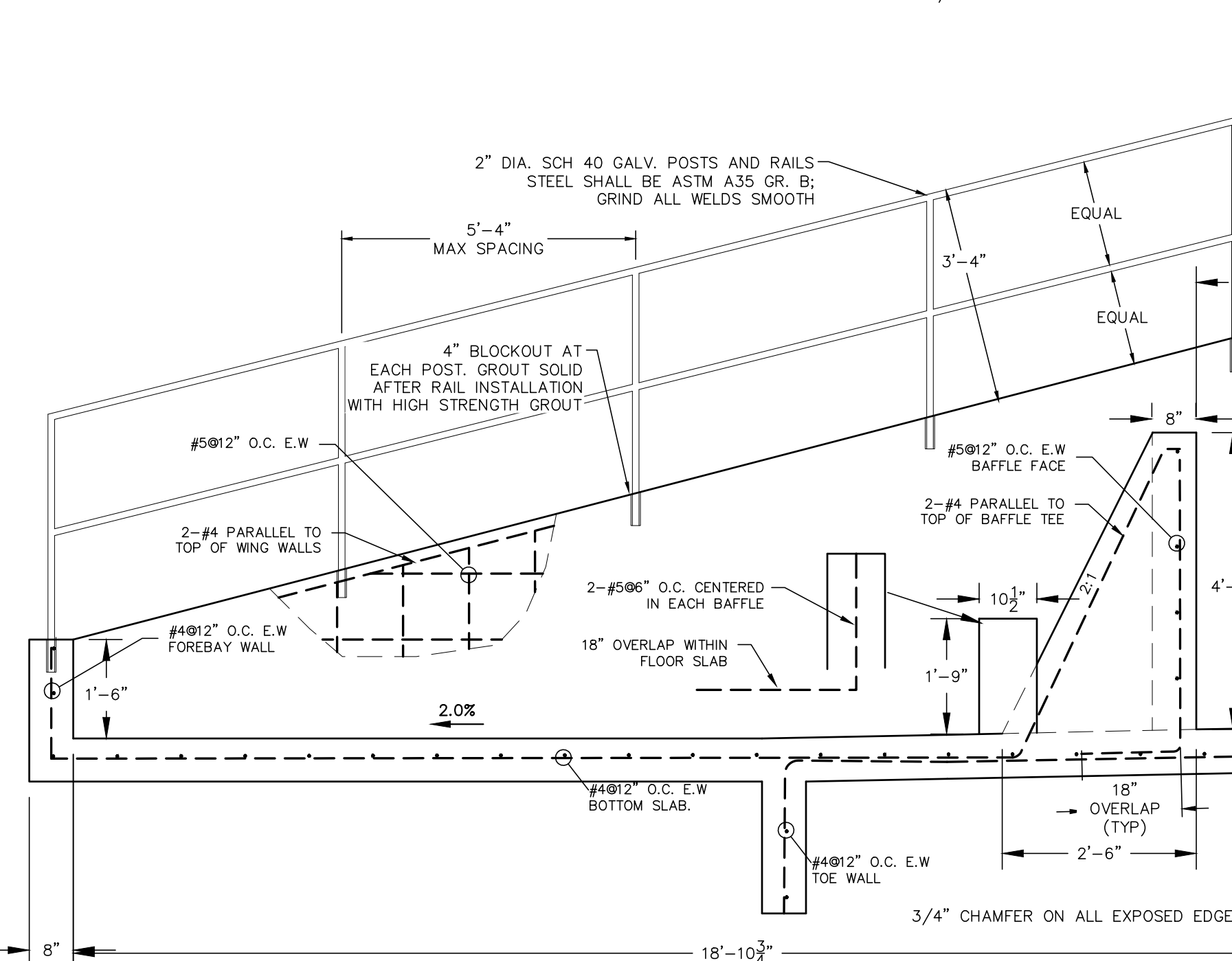




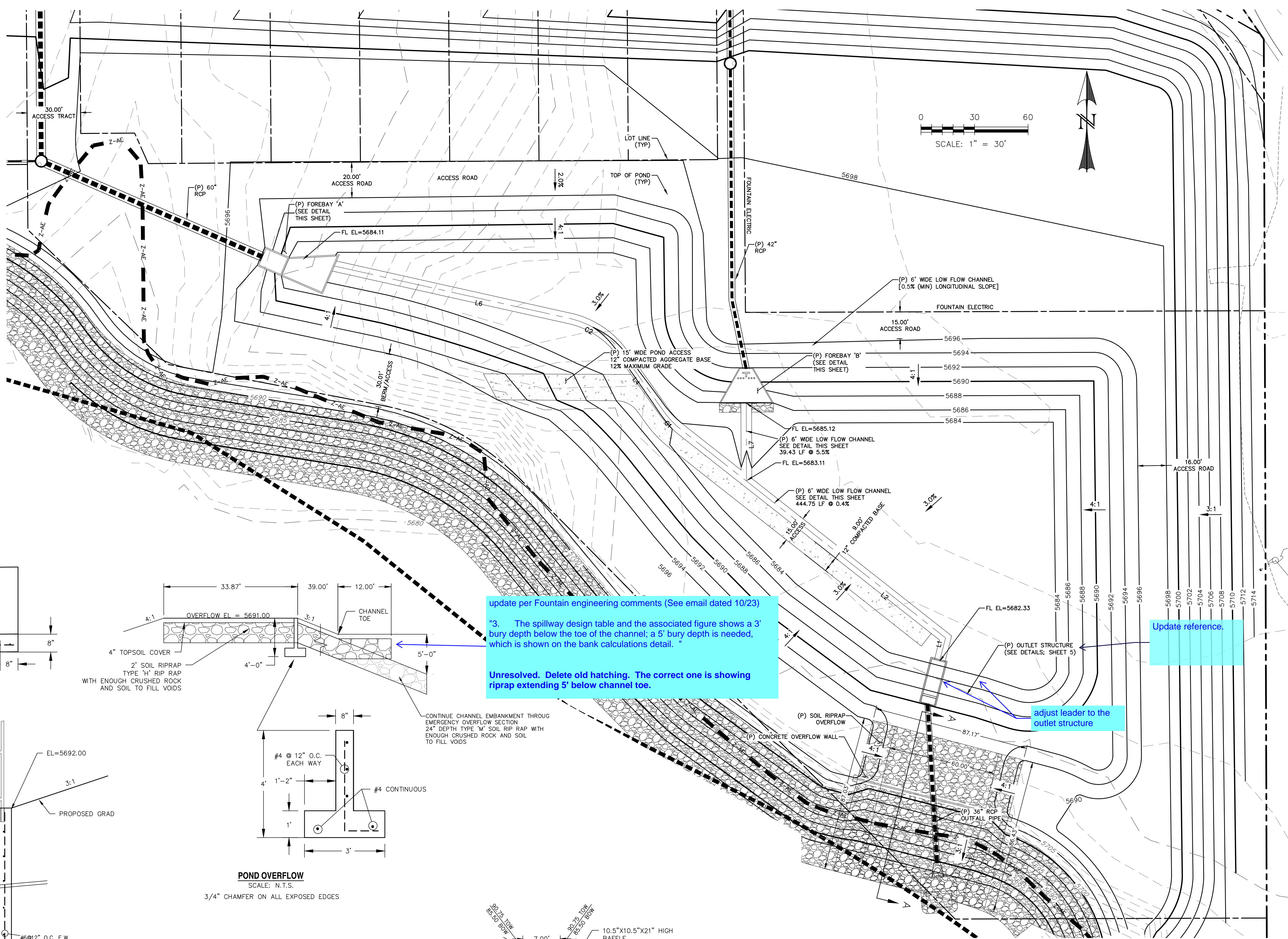
2.0' DEPTH OF TYPE 'M' SOIL RIPRAP TO BE PLACED 5' DOWNSTREAM OF FOREBAY WALL



3/4" CHAMFER ON ALL EXPOSED EDGES



3/4" CHAMFER ON ALL EXPOSED EDGES



update per Fountain engineering comments (See email dated 10/23)

"3. The spillway design table and the associated figure shows a 3' bury depth below the toe of the channel; a 5' bury depth is needed, which is shown on the bank calculations detail. "

Unresolved. Delete old hatching. The correct one is showing riprap extending 5' below channel toe.

adjust leader to the outlet structure

Update reference.

CONTINUE CHANNEL EMBANKMENT THROUGH EMERGENCY OVERFLOW SECTION 24" DEPTH TYPE 'M' SOIL RIP RAP WITH ENOUGH CRUSHED ROCK AND SOIL TO FILL VOIDS

4" TOPSOIL COVER

2" SOIL RIPRAP TYPE 'M' RIP RAP WITH ENOUGH CRUSHED ROCK AND SOIL TO FILL VOIDS

4" TOPSOIL COVER

2" SOIL RIPRAP TYPE 'M' RIP RAP WITH ENOUGH CRUSHED ROCK AND SOIL TO FILL VOIDS

4" TOPSOIL COVER

REV.	DESCRIPTION	DATE
1	ADDRESS AGENCY COMMENTS	08/17/20



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. MIAJARES, LICENSED PROFESSIONAL ENGINEER NO. 40510
10/19/20
DATE



RIVERBEND CROSSING
FILING NO. 1
EXTENDED DETENTION BASIN

DESIGNED BY:	DLM	DRAWN BY:	MGP
SCALE:	1" = 30'	DATE:	03/30/21
JOB NUMBER	17-114	SHEET	14 OF 27

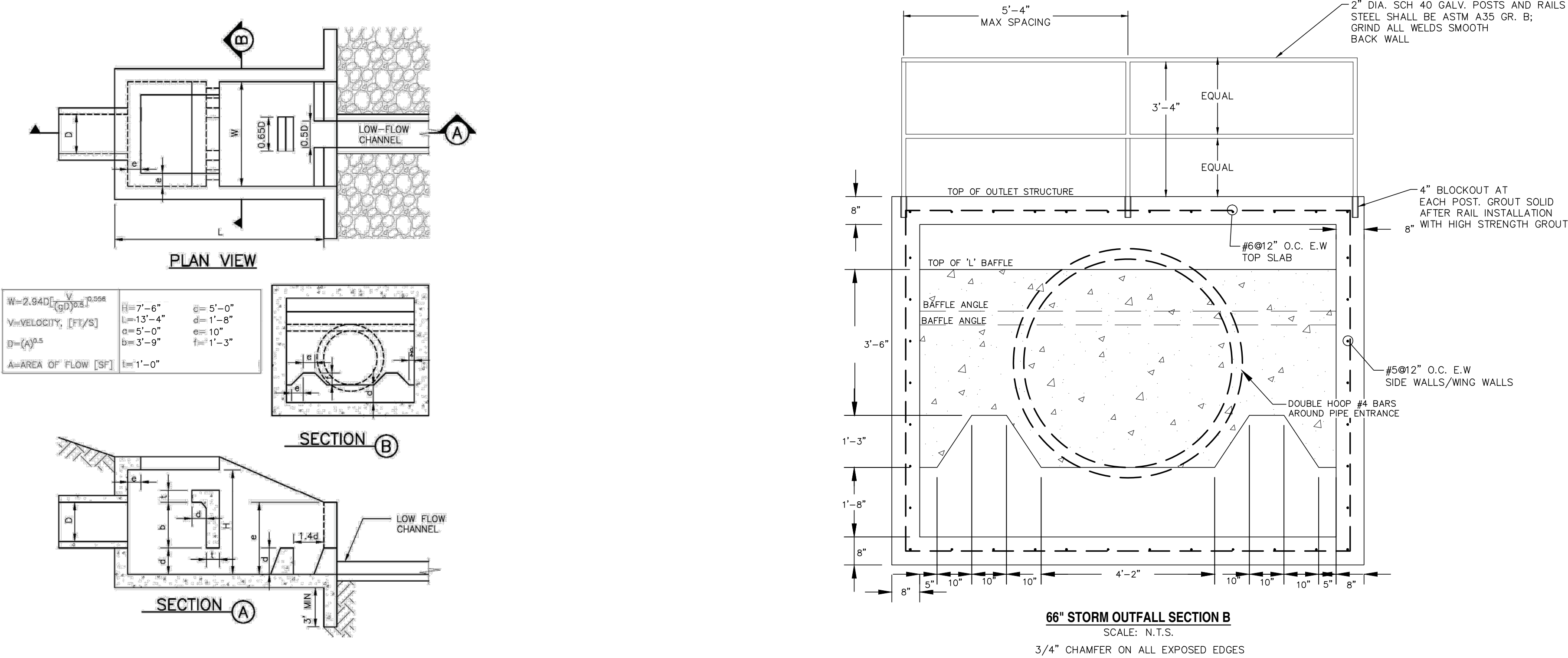
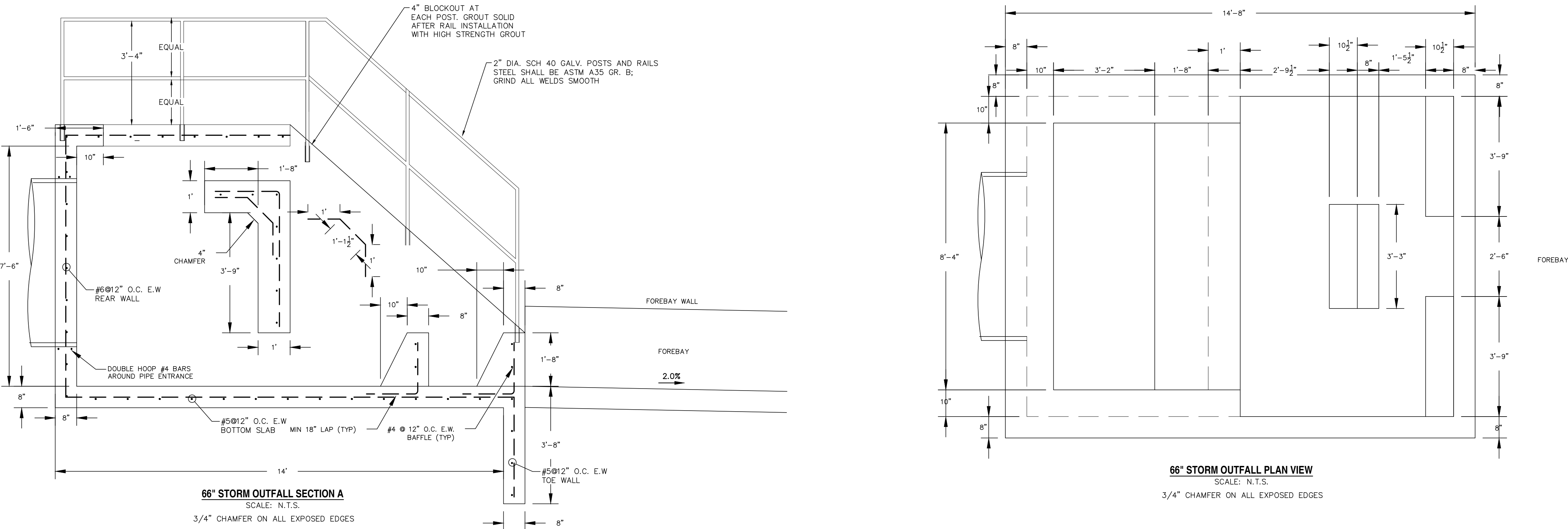


Figure 9-45. UDFCD modified USBR type VI impacts stilling basin (general design dimensions)



REV.	DESCRIPTION	DATE
1	ADDRESS AGENCY COMMENTS	08/17/20

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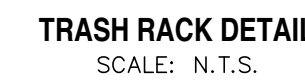
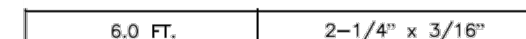
PREPARED FOR:
AVATAR EQUITIES, LLC
6800 JERICHO TURNPIKE
SUITE 120W #204
SYOSSET, NY 11791

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

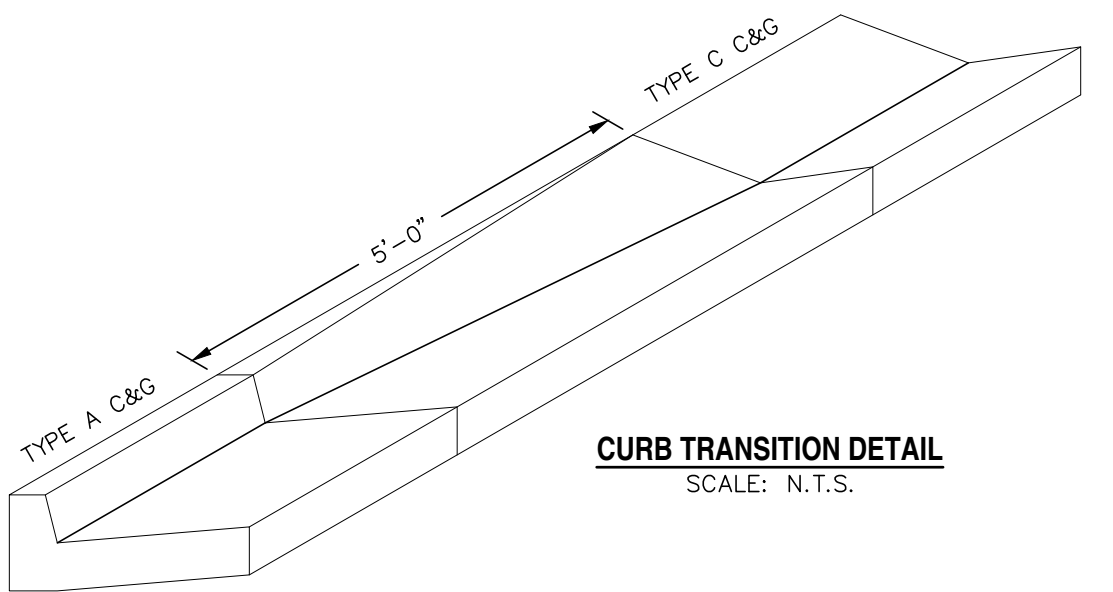
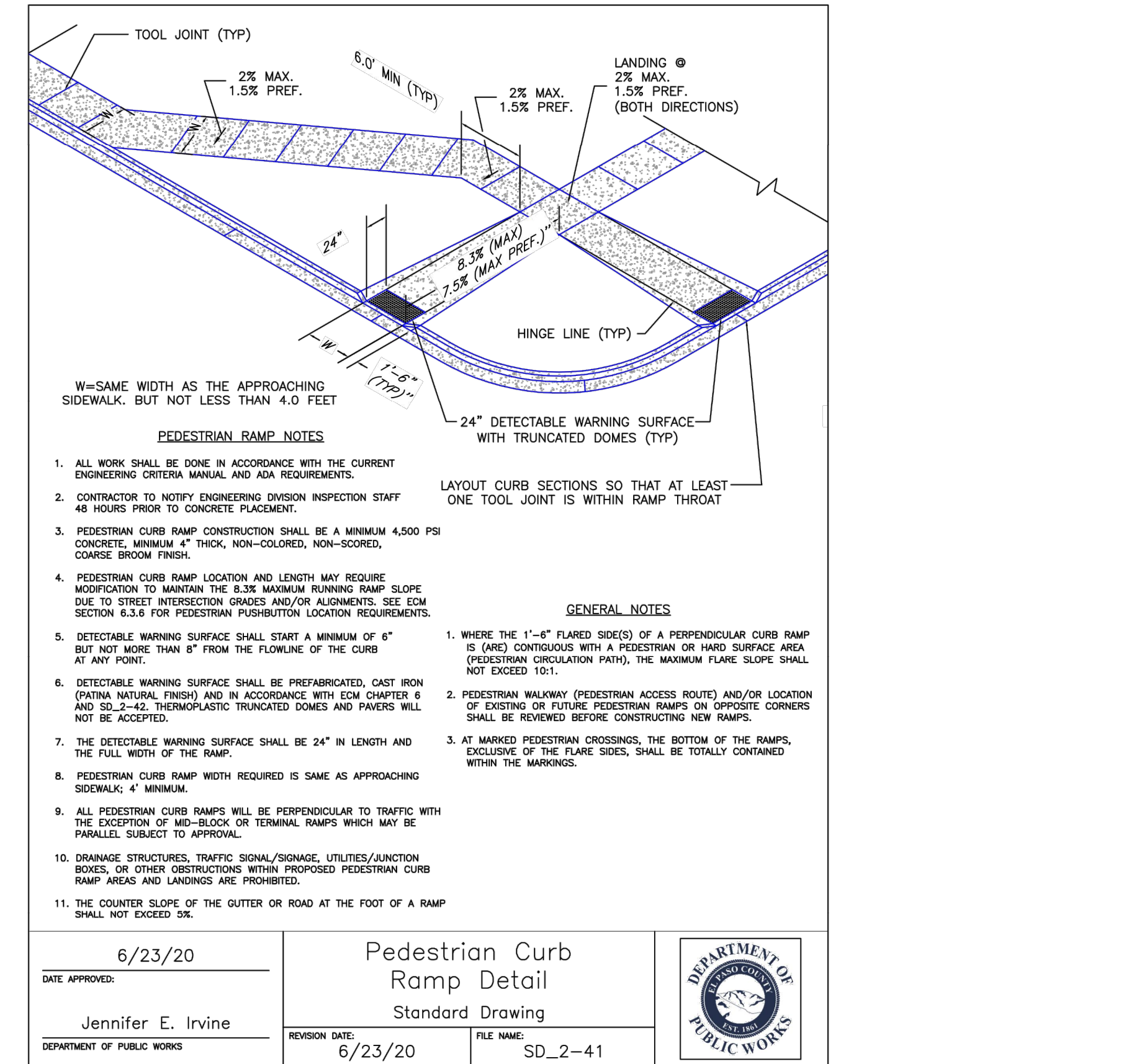
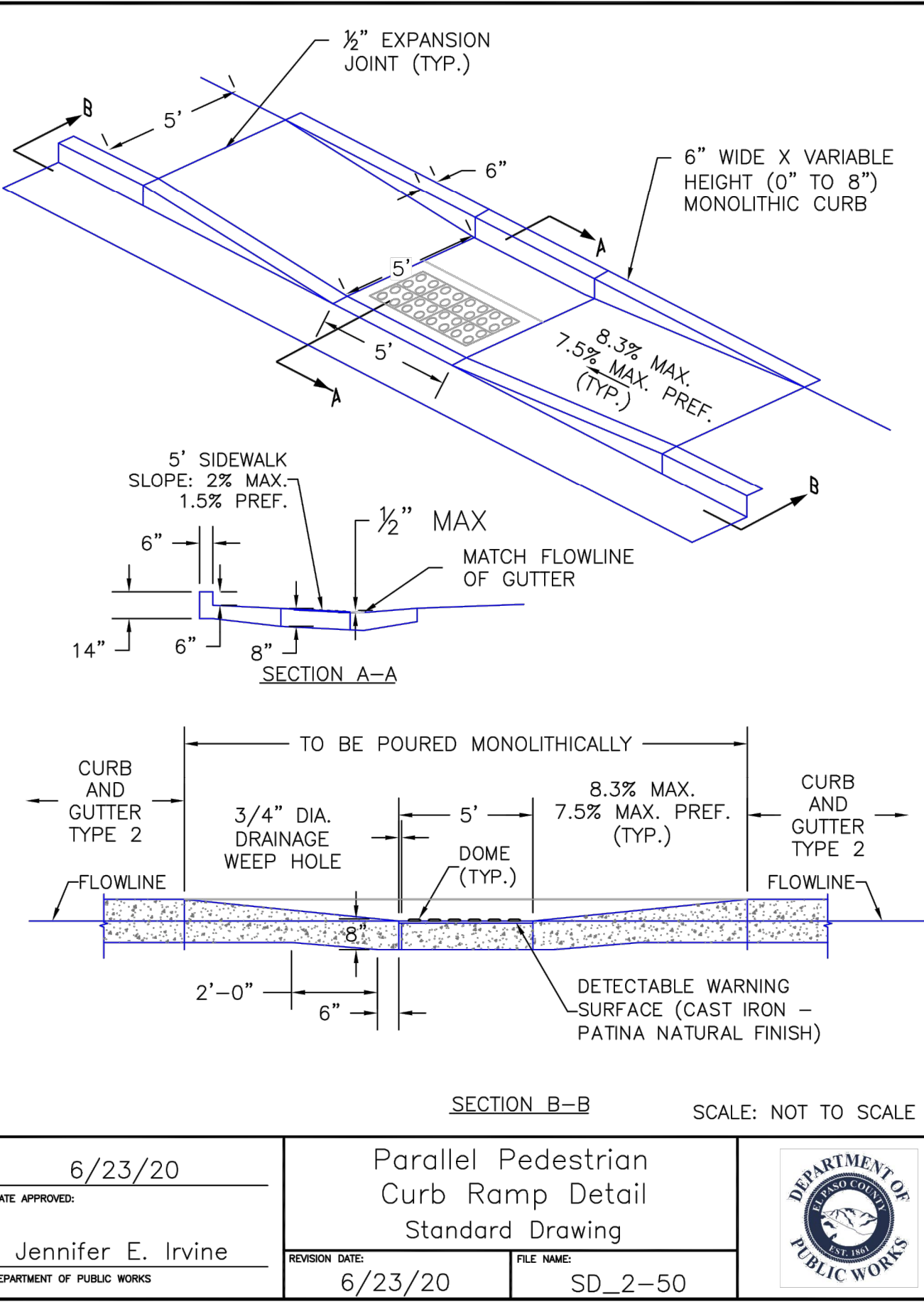
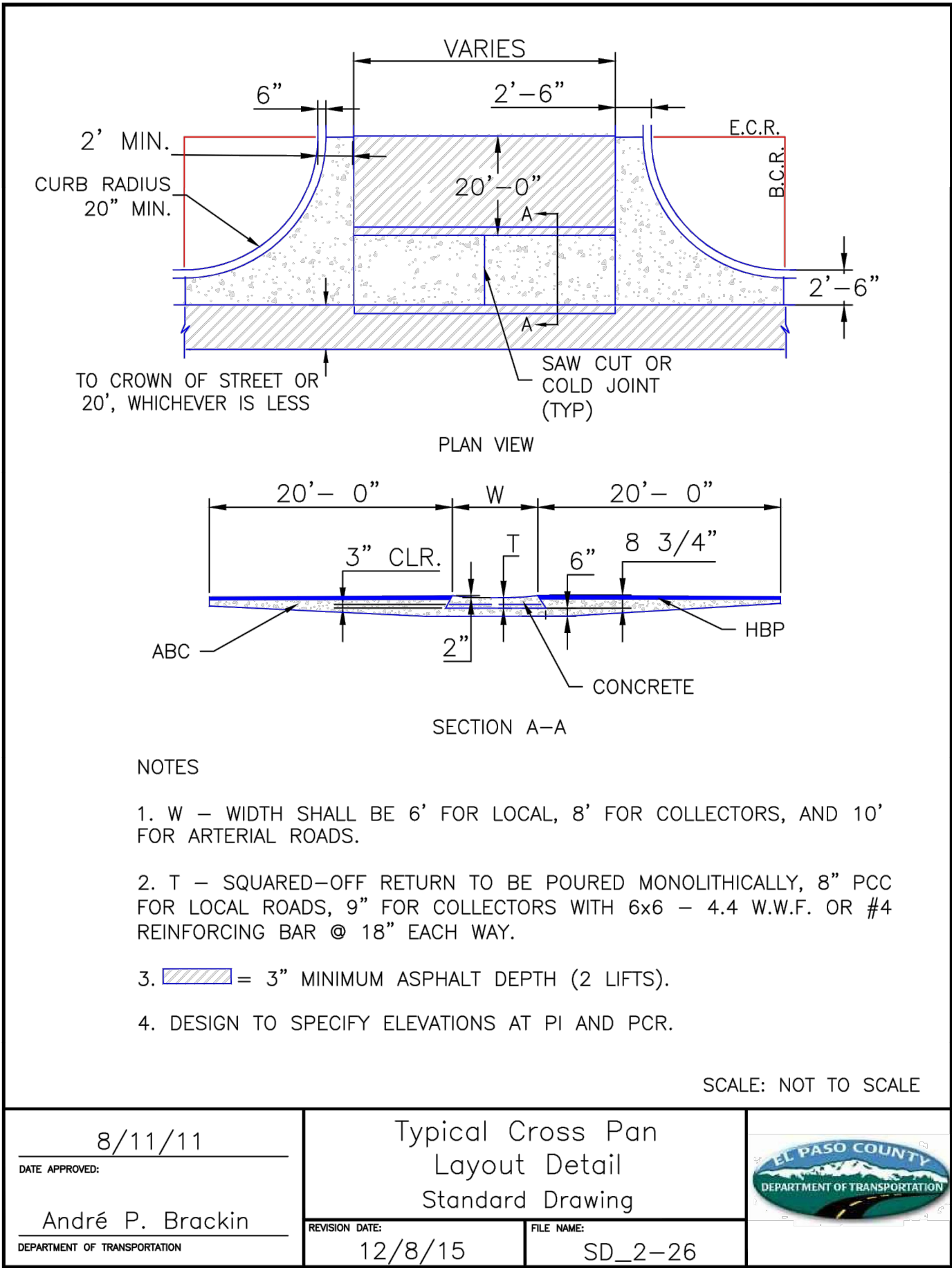
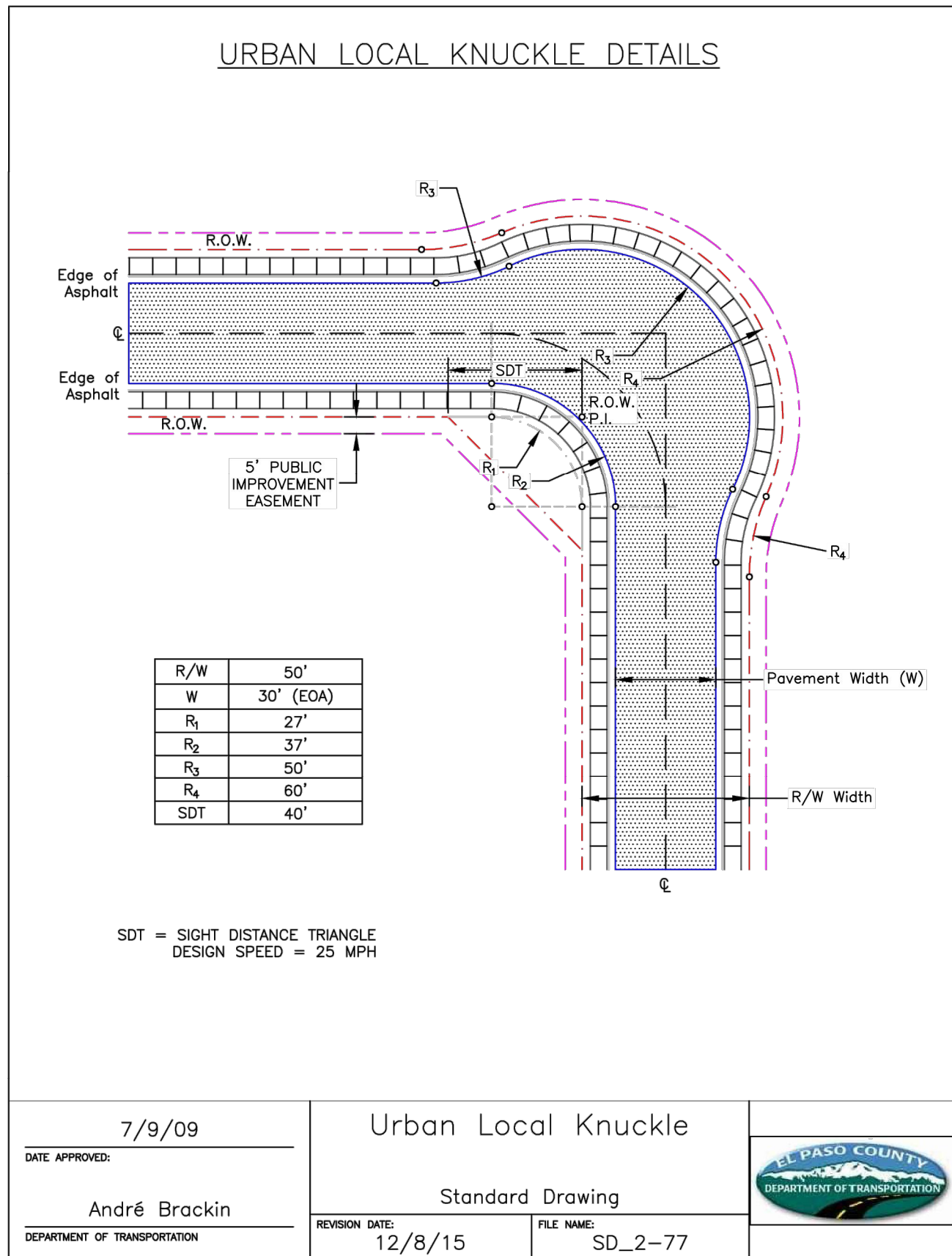
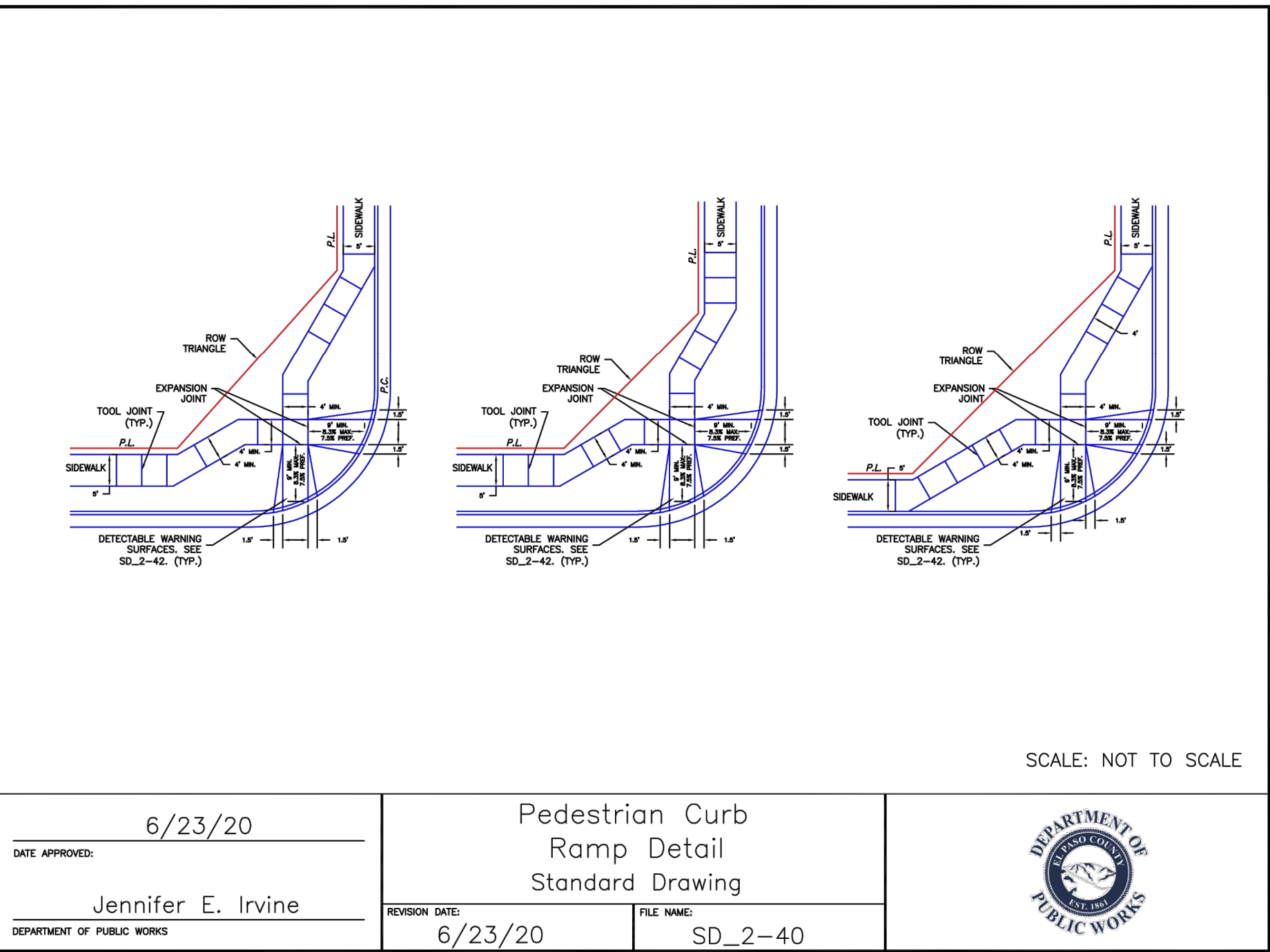
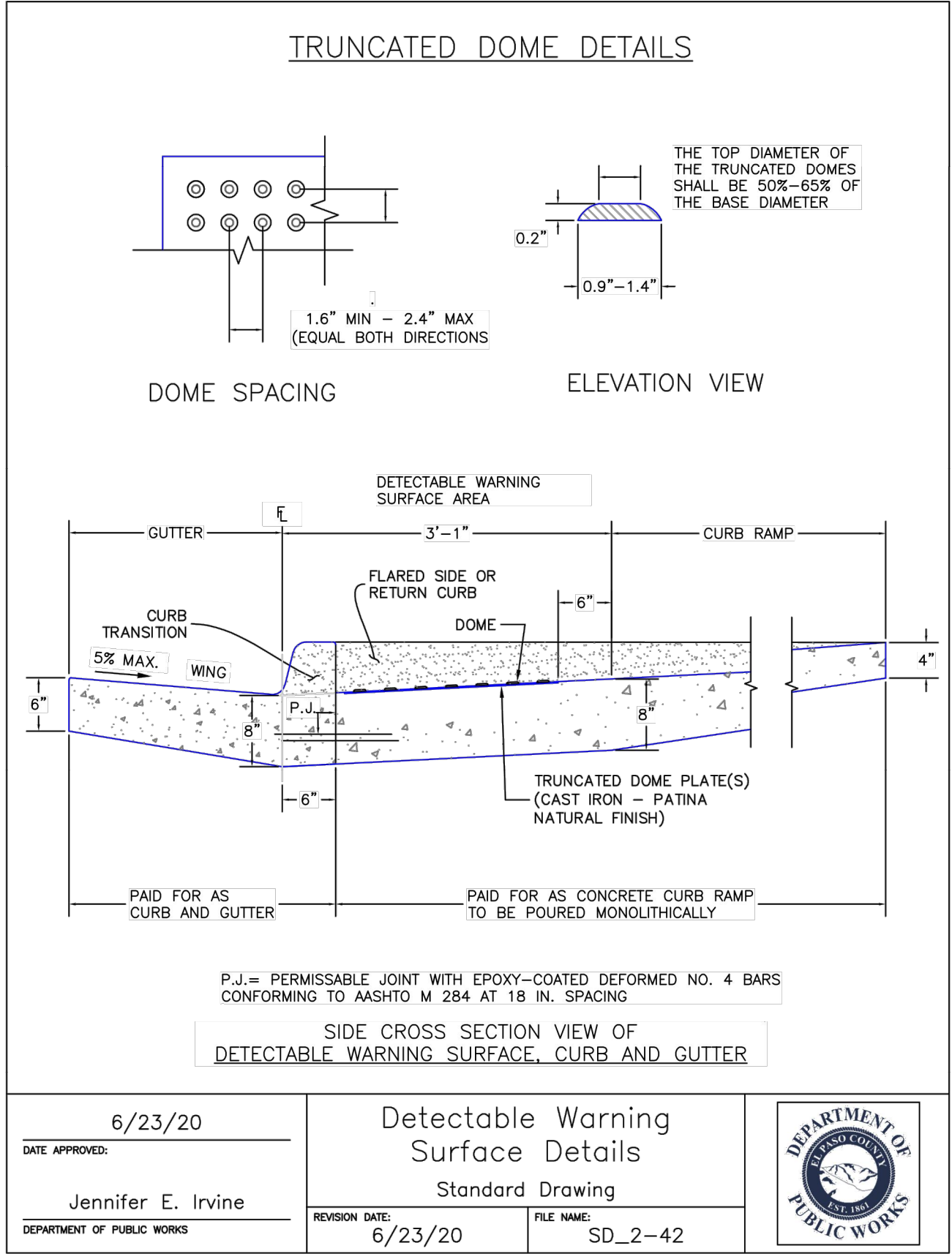
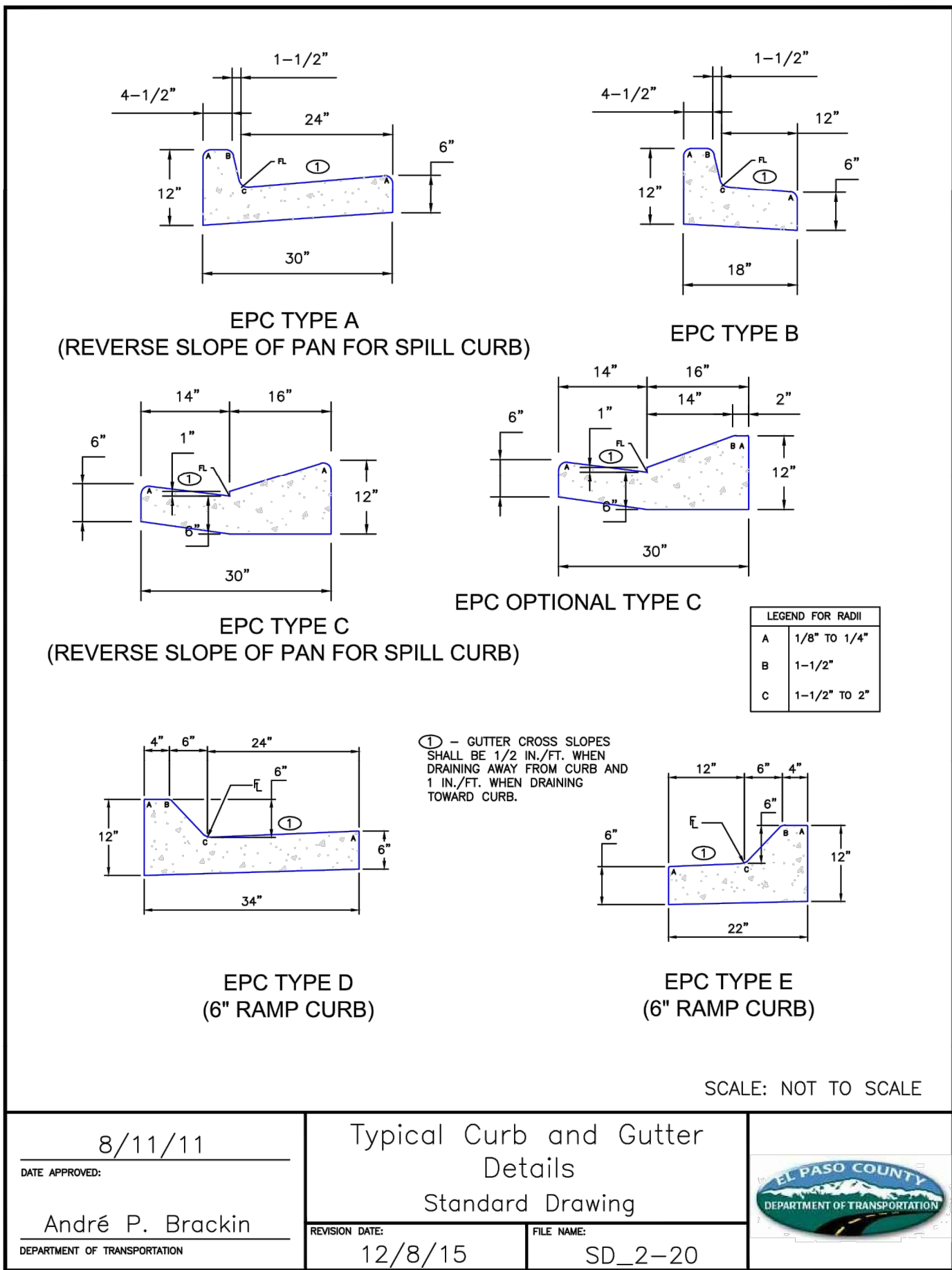
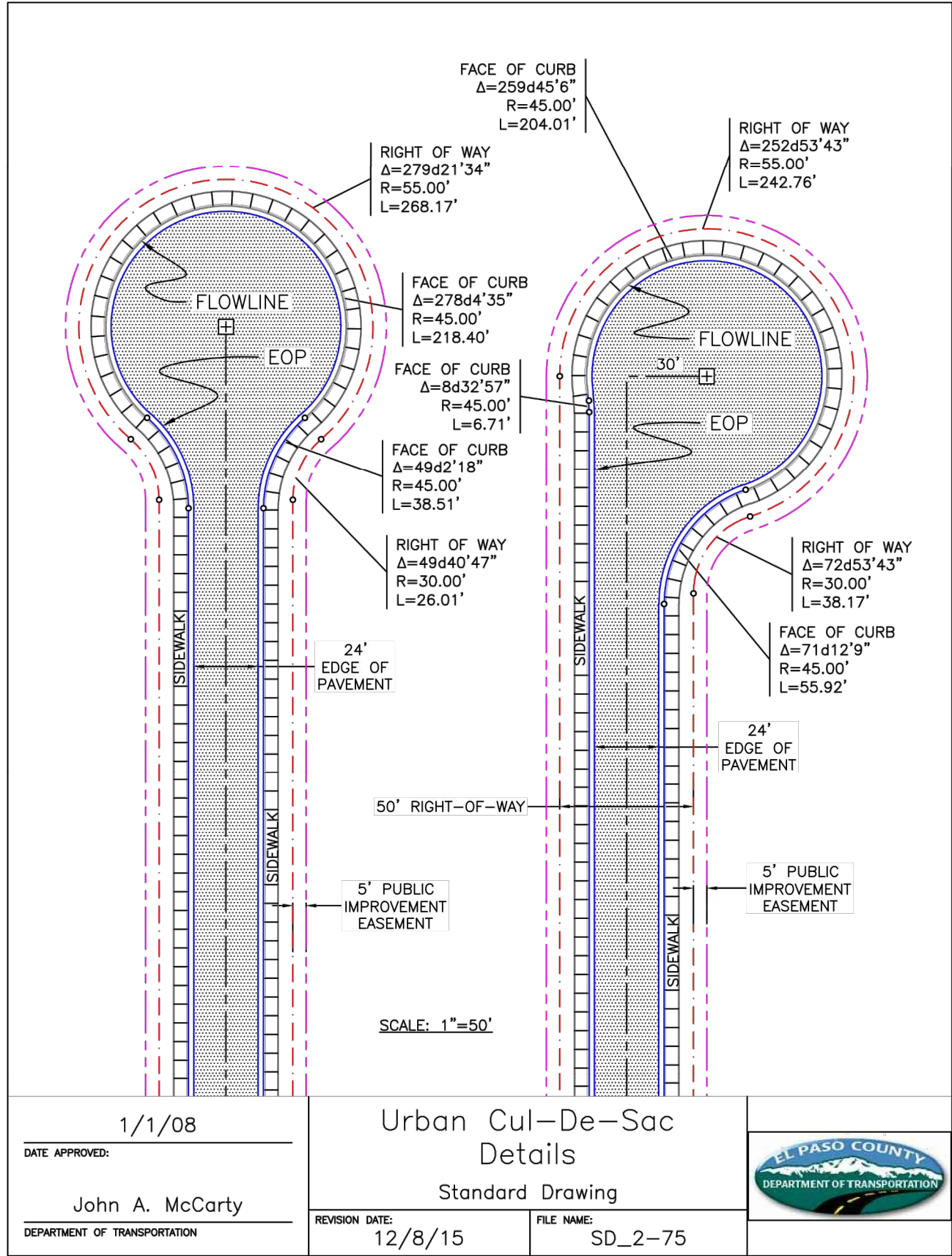
CATAMOUNT ENGINEERING
321 W. HENRIETTA AVE
PO BOX 221
WOODLAND PARK, CO 80866
(719) 428-2124

RIVERBEND CROSSING
FILING NO. 1
STORMWATER QUALITY
FACILITY DETAILS

DESIGNED BY:	DLM	DRAWN BY:	DLM
SCALE:	VARIES	DATE:	03/30/21
JOB NUMBER	17-114	SHEET	15 OF 27



DESIGNED BY: DLM	DRAWN BY: DLM
SCALE: VARIES	DATE: 03/30/2017
JOB NUMBER	SHEET
17-114	16 OF 27



REV.	DESCRIPTION	DATE
1	ADDRESS AGENCY COMMENTS	08/17/20

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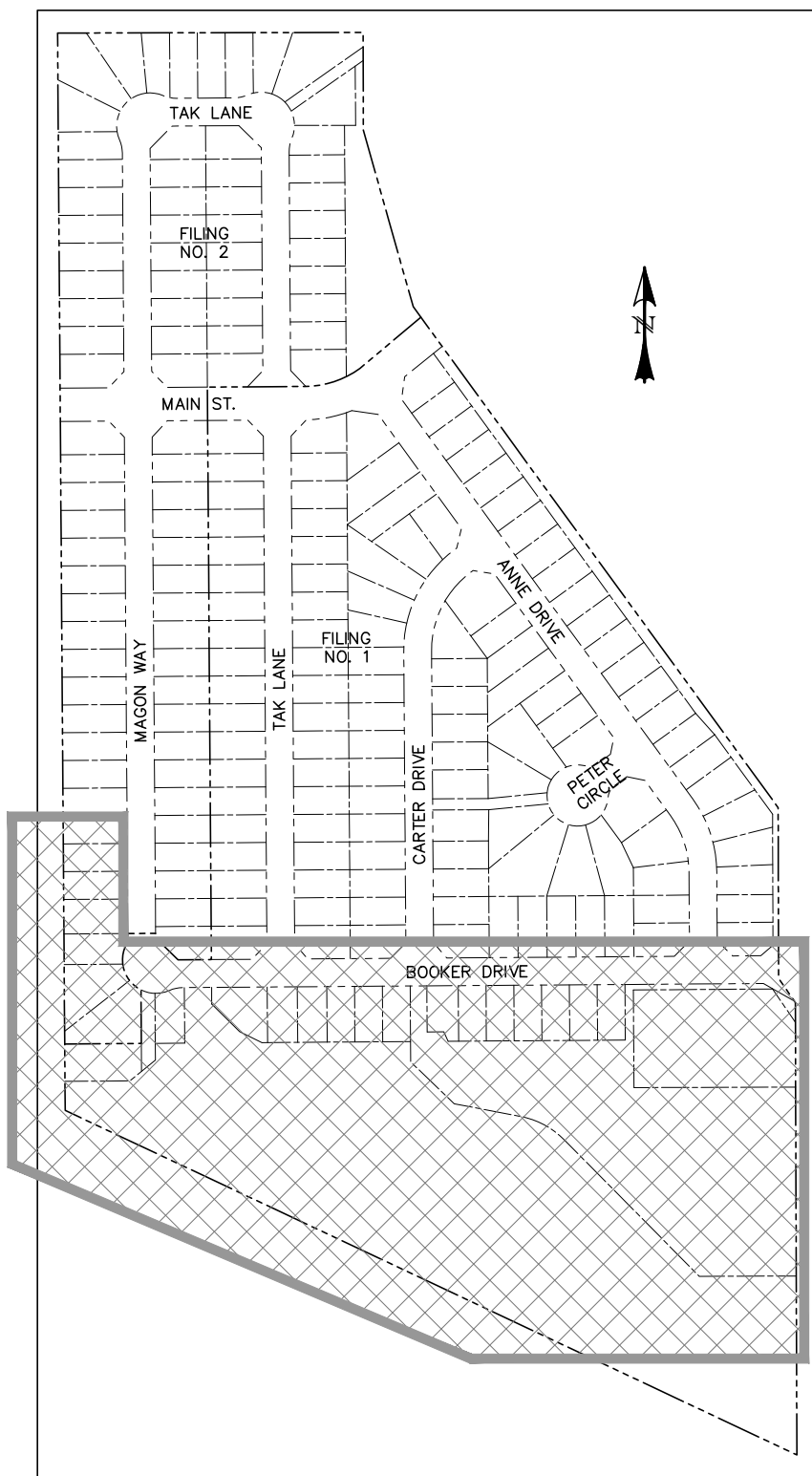
PREPARED FOR:
AVATAR EQUITIES, LLC
6800 JERICHO TURNPIKE
SUITE 120W #204
SYOSSET, NY 11791

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

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

RIVERBEND CROSSING
FILING NO. 1
DETAIL SHEET

DESIGNED BY: MGP
DRAWN BY: MGP
SCALE: VARIES
DATE: 03/30/21
JOB NUMBER: 17-114
SHEET: 17 OF 27



LOCATION MAP
SCALE: N.T.S.

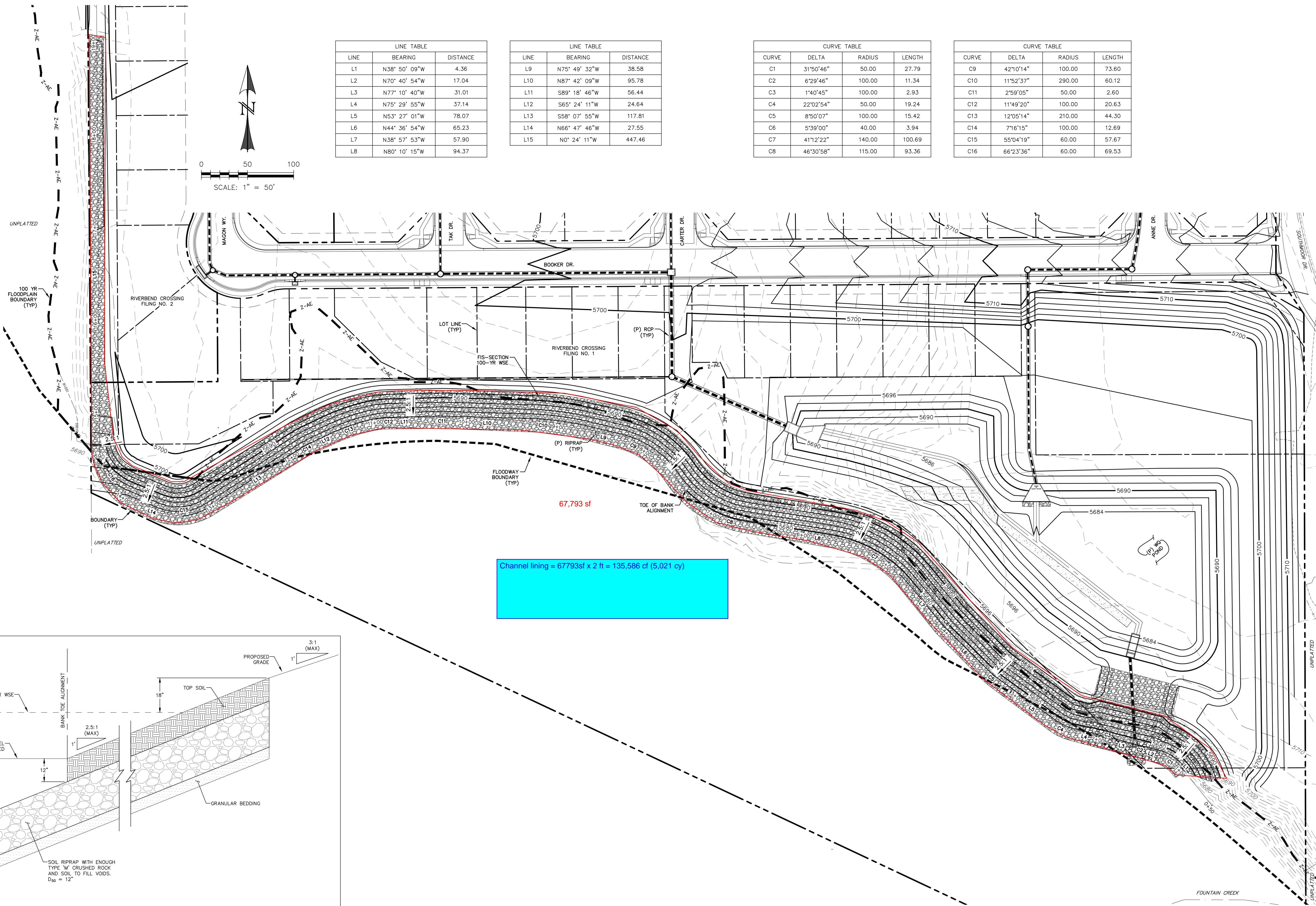
- LEGEND**
- EXISTING
 - PROPOSED
 - CURB & GUTTER
 - EASEMENT
 - BOUNDARY
 - RIGHT-OF-WAY
 - LOT LINE
 - EASEMENT
 - (E) CONTOUR, INDEX
 - (E) CONTOUR
 - (E) STORM SEWER
 - (P) CONTOUR, INDEX
 - (P) CONTOUR
 - (P) STORM SEWER, INLET, MH
 - GRADE CALL-OUT
- (E)
(P)
C&G
ESMT
- 5700
5700
- X.XX'X

LINE TABLE		
LINE	BEARING	DISTANCE
L1	N38° 50' 09"W	4.36
L2	N70° 40' 54"W	17.04
L3	N77° 10' 40"W	31.01
L4	N75° 29' 55"W	37.14
L5	N53° 27' 01"W	78.07
L6	N44° 36' 54"W	65.23
L7	N38° 57' 53"W	57.90
L8	N80° 10' 15"W	94.37

LINE TABLE		
LINE	BEARING	DISTANCE
L9	N75° 49' 32"W	38.58
L10	N87° 42' 09"W	95.78
L11	S89° 18' 46"W	56.44
L12	S65° 24' 11"W	24.64
L13	S58° 07' 55"W	117.81
L14	N66° 47' 46"W	27.55
L15	N0° 24' 11"W	447.46

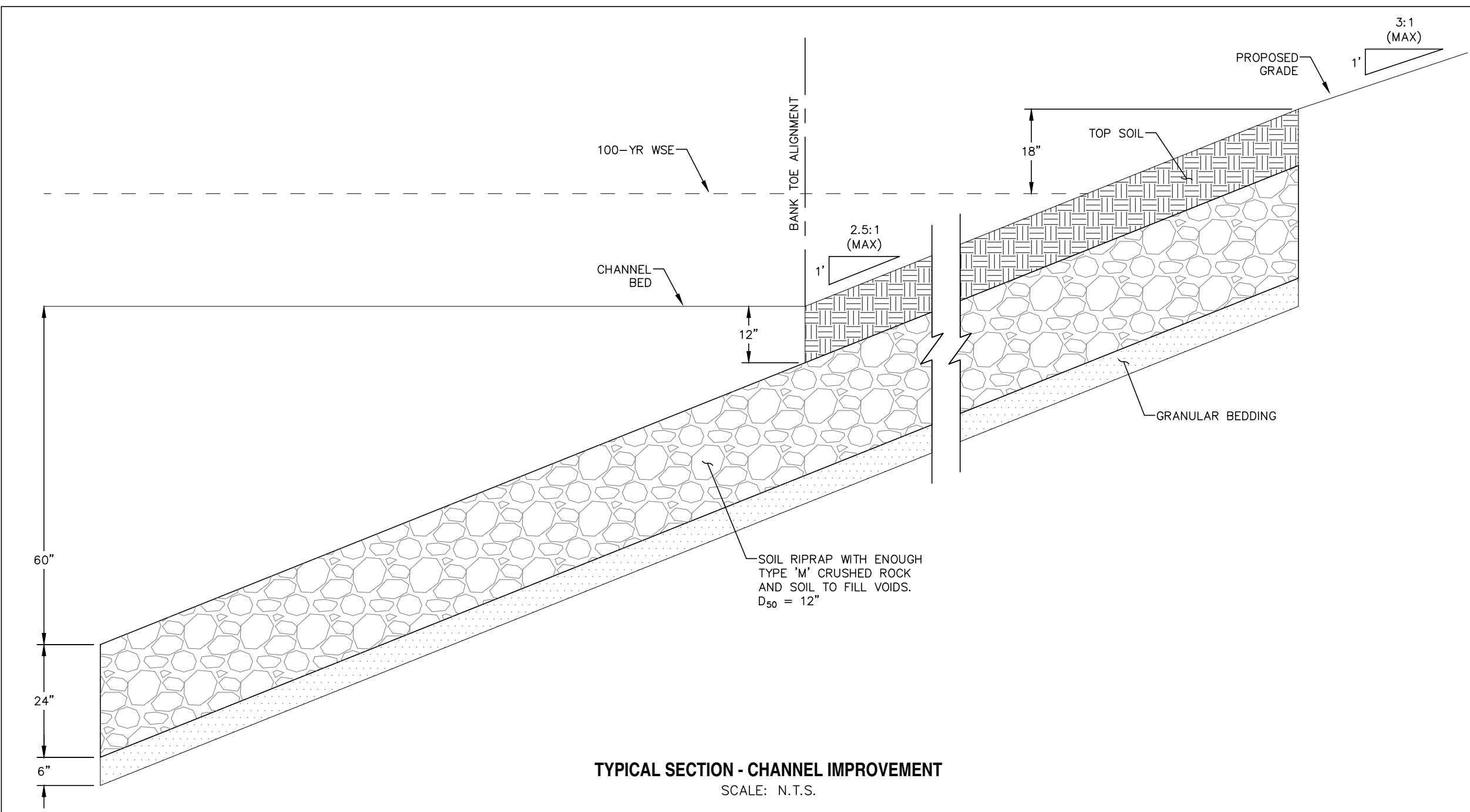
CURVE TABLE			
CURVE	DELTA	RADIUS	LENGTH
C1	31°50'46"	50.00	27.79
C2	6°29'46"	100.00	11.34
C3	1°40'45"	100.00	2.93
C4	22°02'54"	50.00	19.24
C5	8°50'07"	100.00	15.42
C6	5°39'00"	40.00	3.94
C7	41°12'22"	140.00	100.69
C8	46°30'58"	115.00	93.36

CURVE TABLE			
CURVE	DELTA	RADIUS	LENGTH
C9	42°10'14"	100.00	73.60
C10	11°52'37"	290.00	60.12
C11	2°59'05"	50.00	2.60
C12	11°49'20"	100.00	20.63
C13	12°05'14"	210.00	44.30
C14	7°16'15"	100.00	12.69
C15	55°04'19"	60.00	57.67
C16	66°23'36"	60.00	69.53



67,793 sf

Channel lining = 67793sf x 2 ft = 135,586 cf (5,021 cy)



TYPICAL SECTION - CHANNEL IMPROVEMENT
SCALE: N.T.S.

REV.	DESCRIPTION	DATE
1	ADDRESS AGENCY COMMENTS	08/17/20

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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
FILING NO. 1
FOUNTAIN CREEK
CHANNEL IMPROVEMENTS

DESIGNED BY: MGP
SCALE: 1" = 50'
JOB NUMBER: 17-114
DRAWN BY: MGP
DATE: 03/30/21
SHEET: 18 OF 27

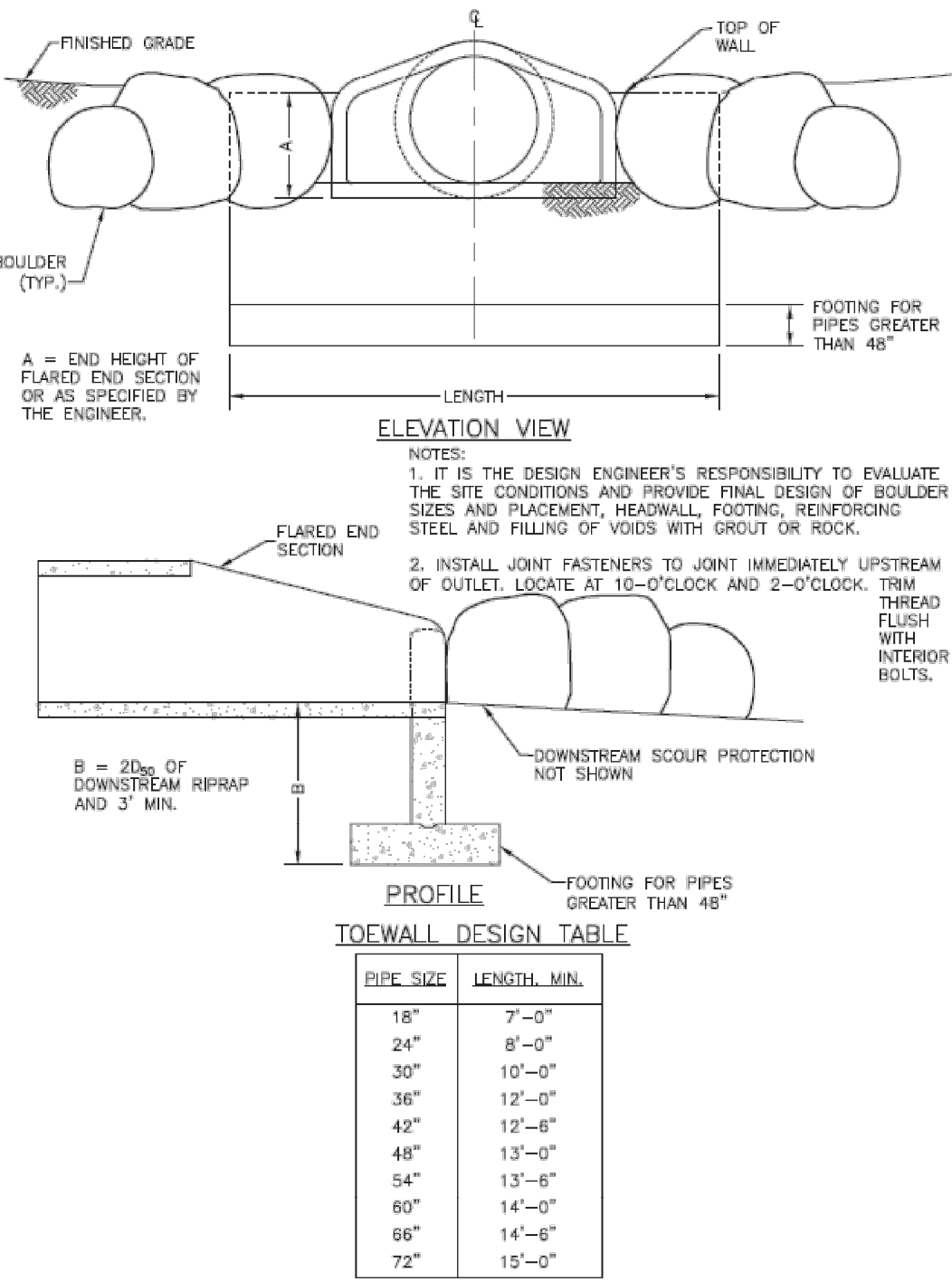


Figure 9-30. Flared end section (FES) headwall concept

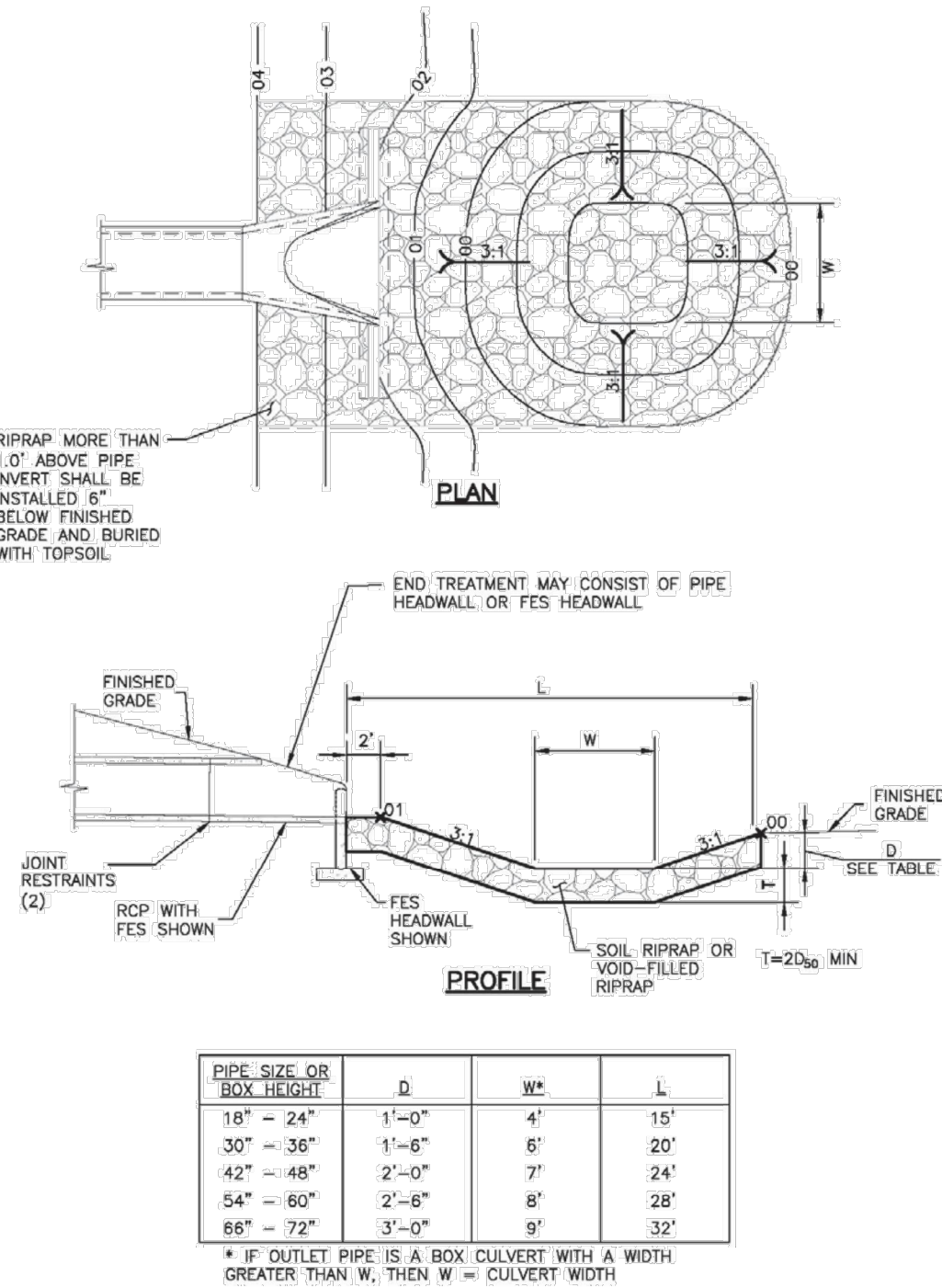
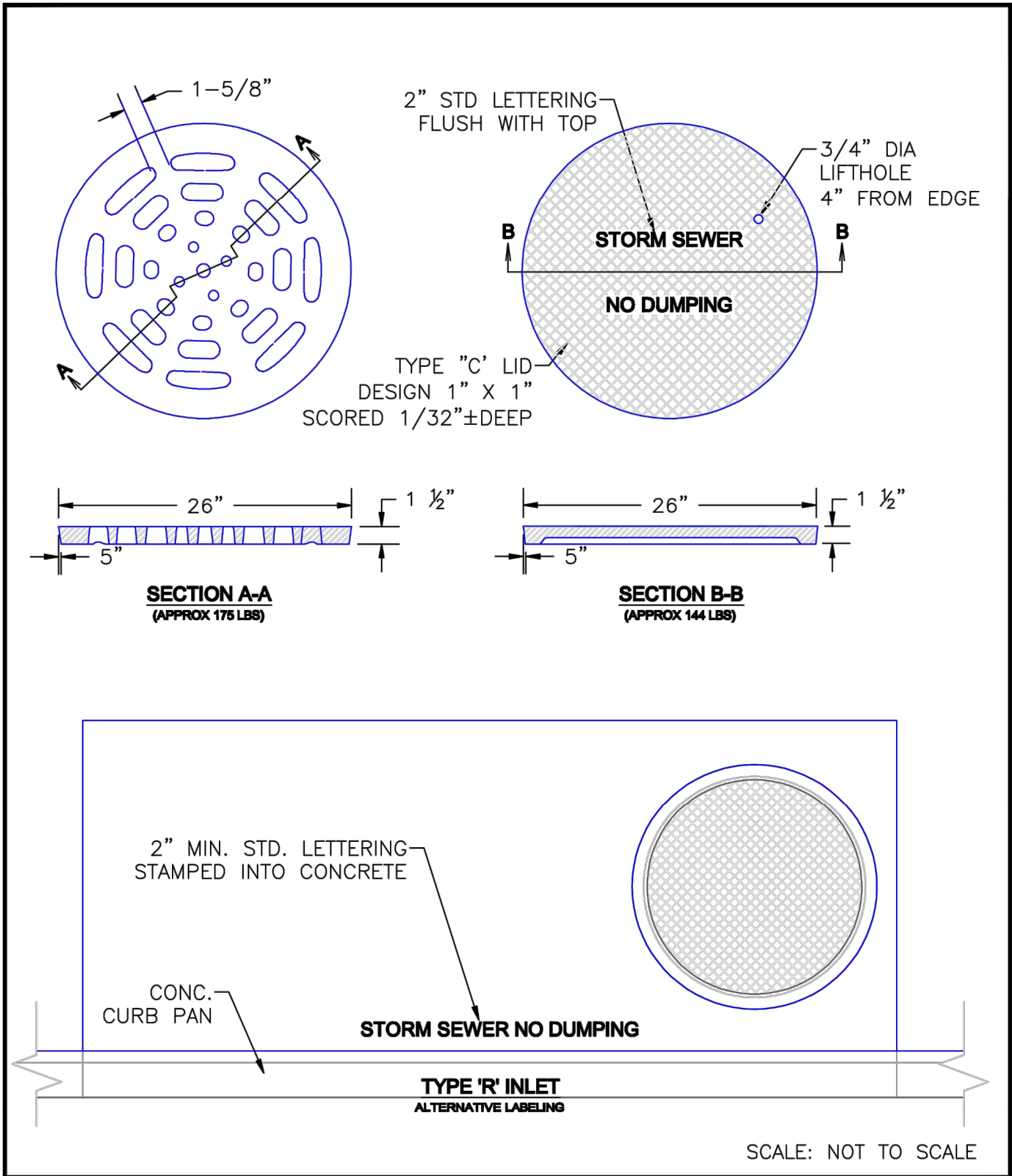


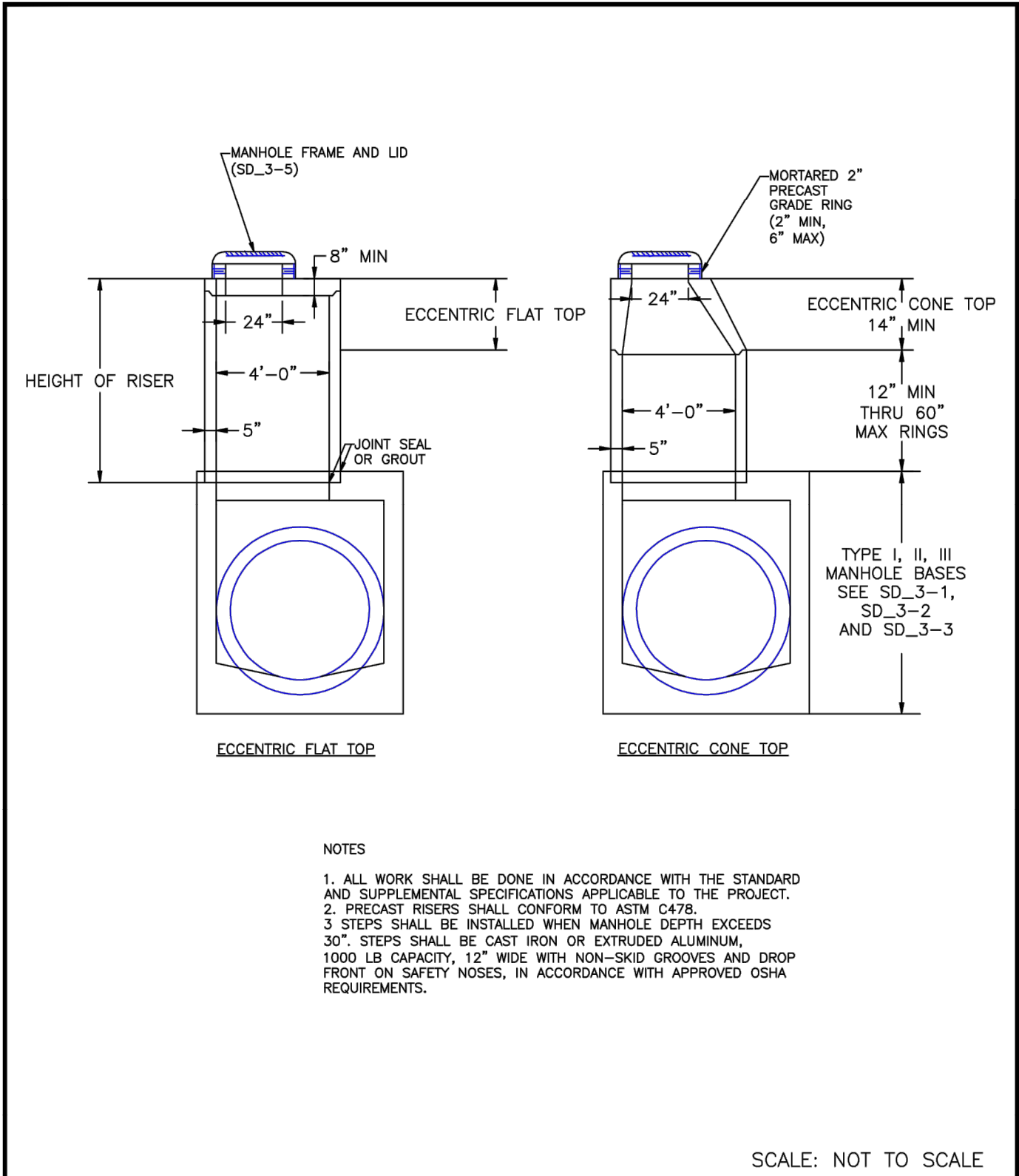
Figure 9-37. Low tailwater riprap basin



9/16/10
DATE APPROVED: André P. Brackin
DEPARTMENT OF TRANSPORTATION

Storm Sewer Manhole Details
Standard Drawing
REVISION DATE: 9/16/10
FILE NAME: SD_3-5

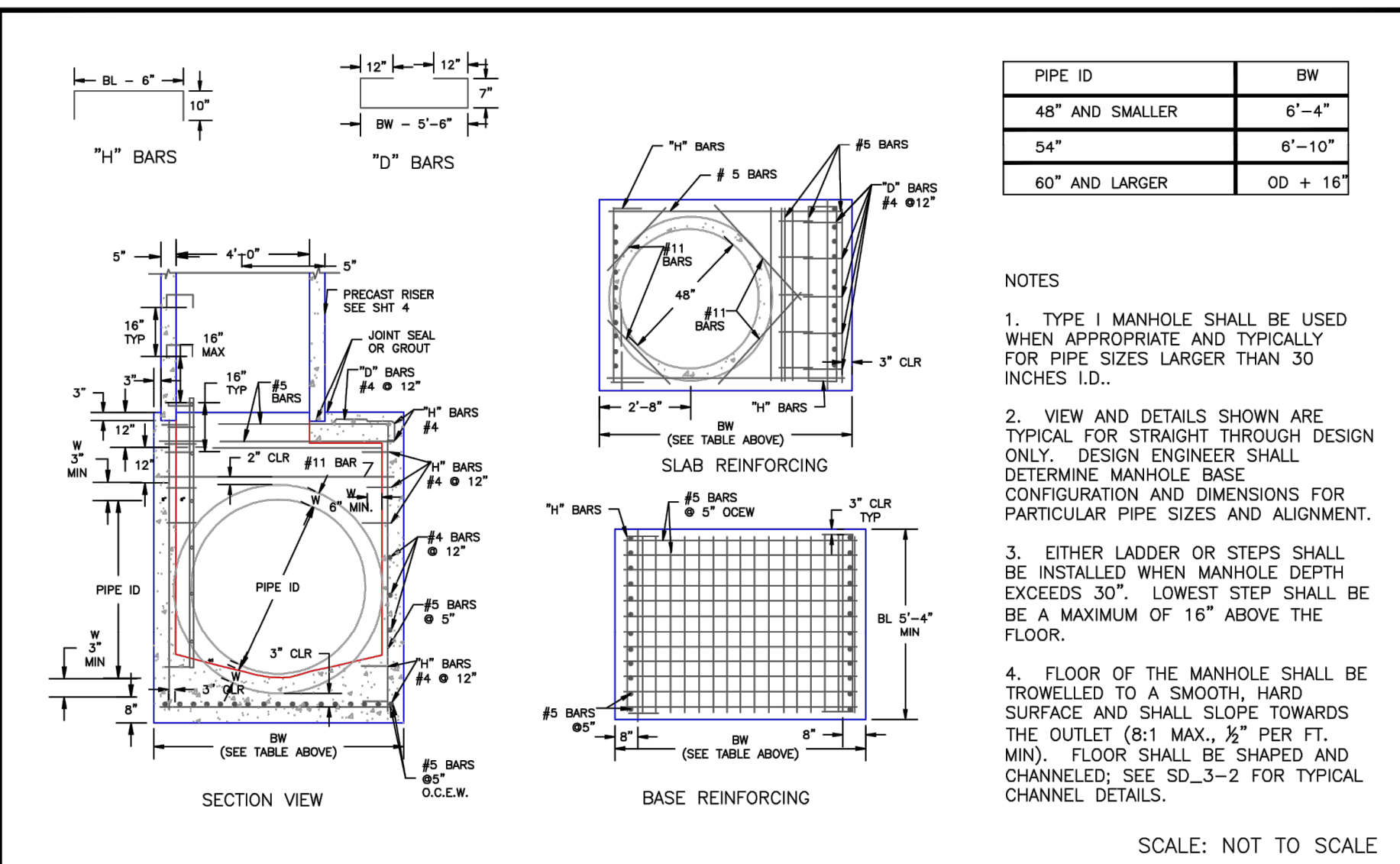
EL PASO COUNTY
DEPARTMENT OF TRANSPORTATION



8/11/11
DATE APPROVED: André P. Brackin
DEPARTMENT OF TRANSPORTATION

Storm Sewer Manhole Riser and Cover Detail
Standard Drawing
REVISION DATE: 11/23/04
FILE NAME: SD_3-7

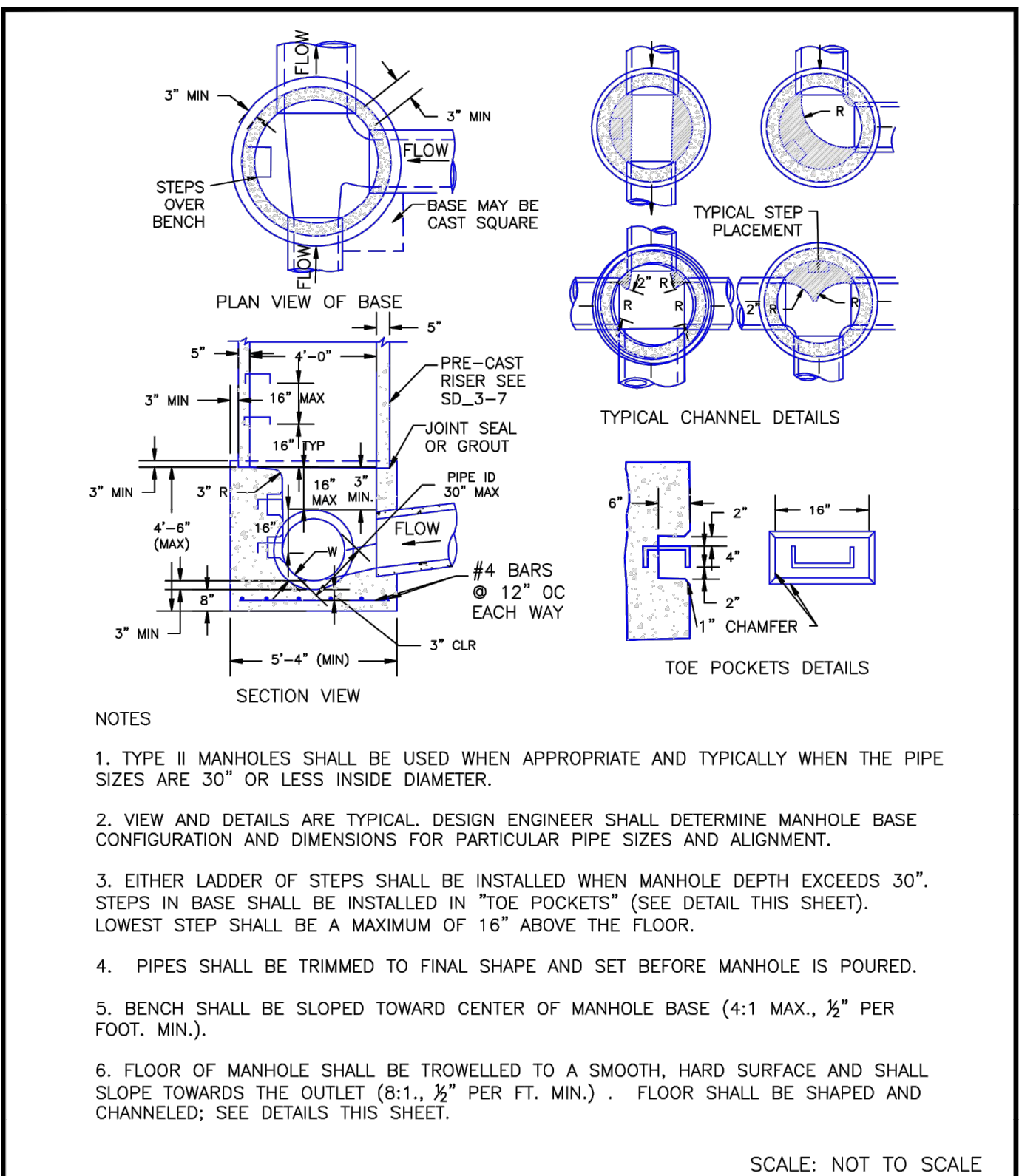
EL PASO COUNTY
DEPARTMENT OF TRANSPORTATION



7/9/09
DATE APPROVED: André Brackin
DEPARTMENT OF TRANSPORTATION

Storm Sewer Manhole Detail
Type I
Standard Drawing
REVISION DATE: 7/9/09
FILE NAME: SD_3-1

EL PASO COUNTY
DEPARTMENT OF TRANSPORTATION



Storm Sewer Manhole Detail
Type II
Standard Drawing
REVISION DATE: 11/10/04
FILE NAME: SD_3-2

André P. Brackin
DEPARTMENT OF TRANSPORTATION

EL PASO COUNTY
DEPARTMENT OF TRANSPORTATION

REV.	DESCRIPTION	DATE
1	ADDRESS AGENCY COMMENTS	08/17/20

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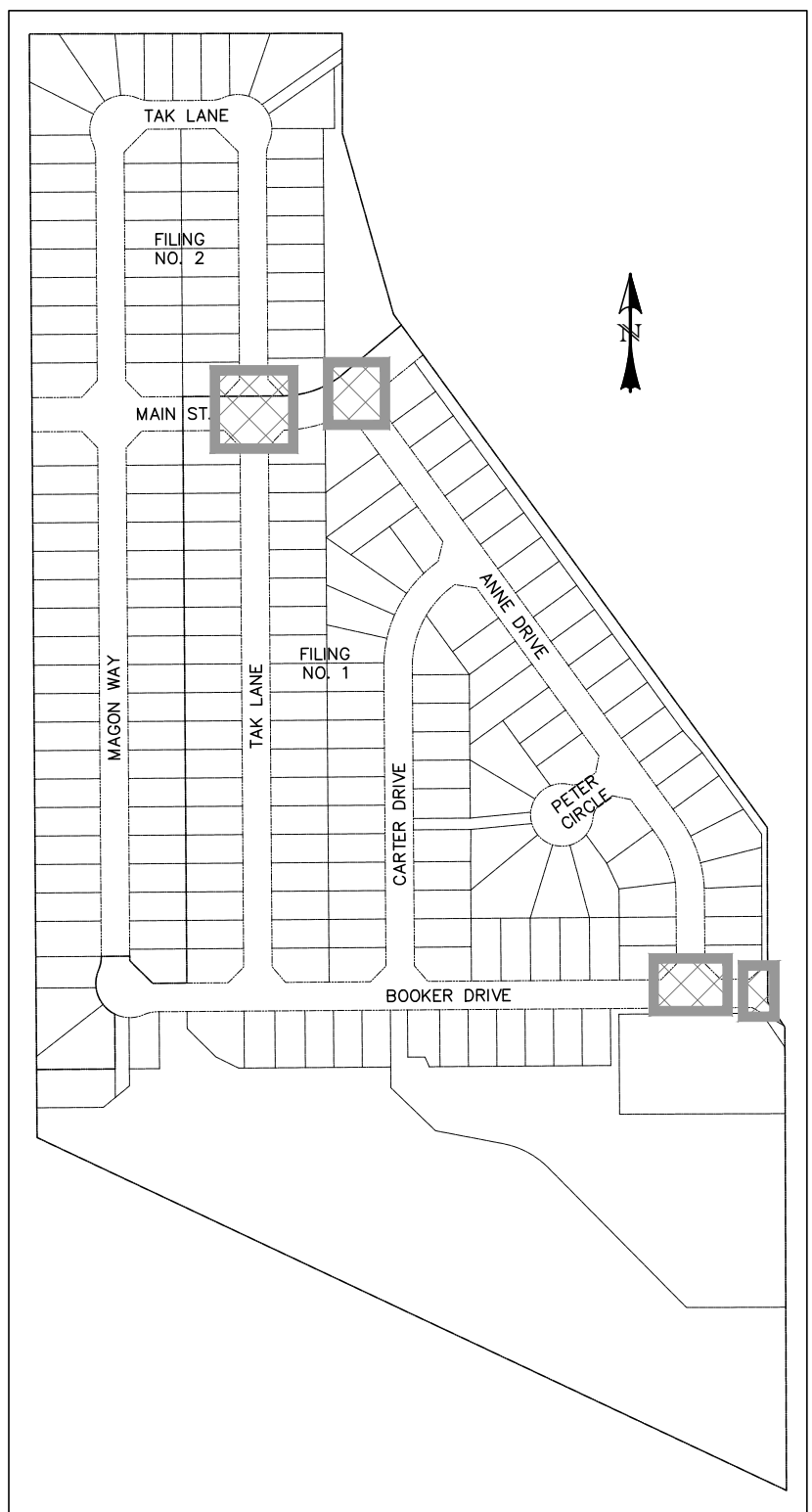
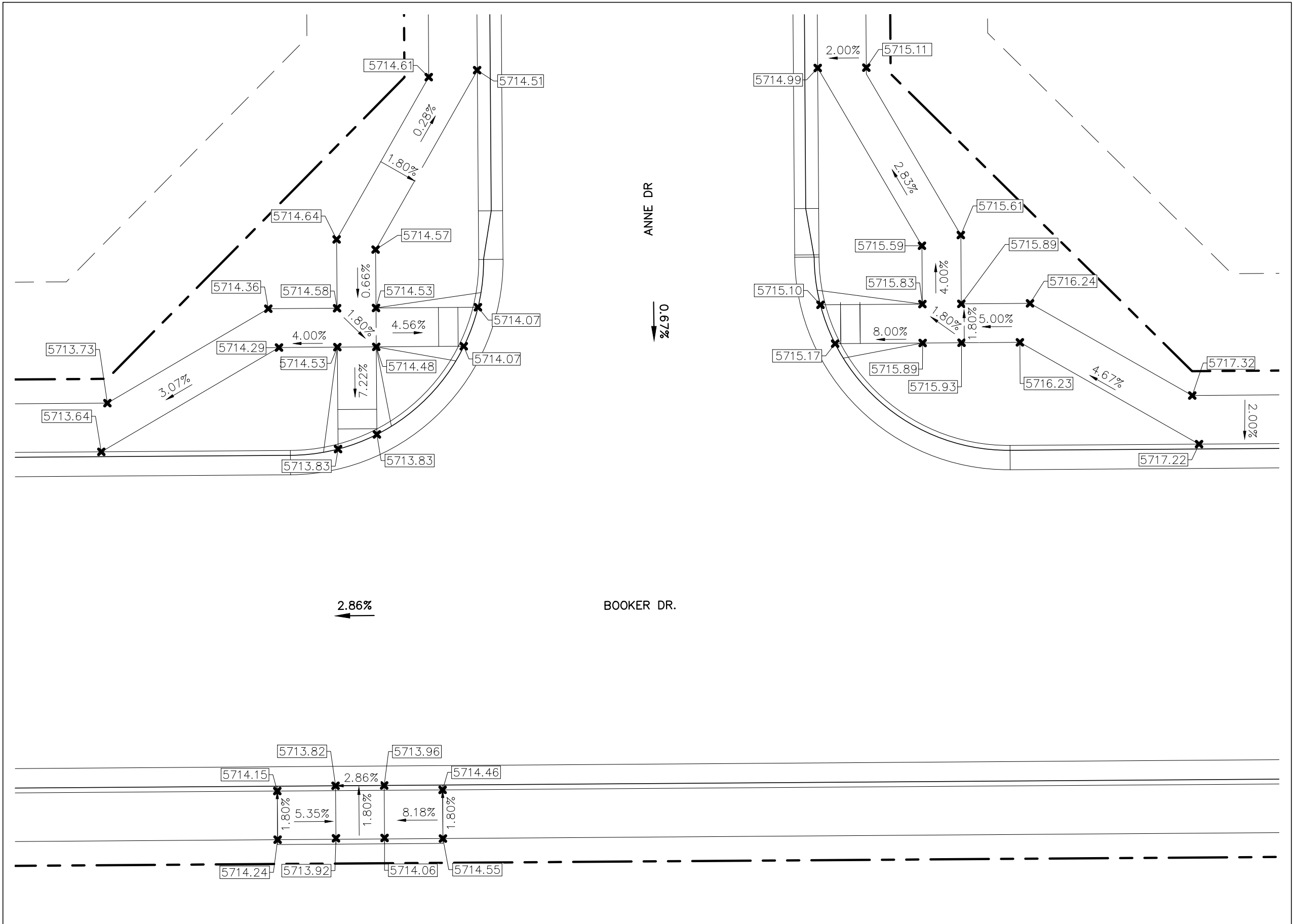
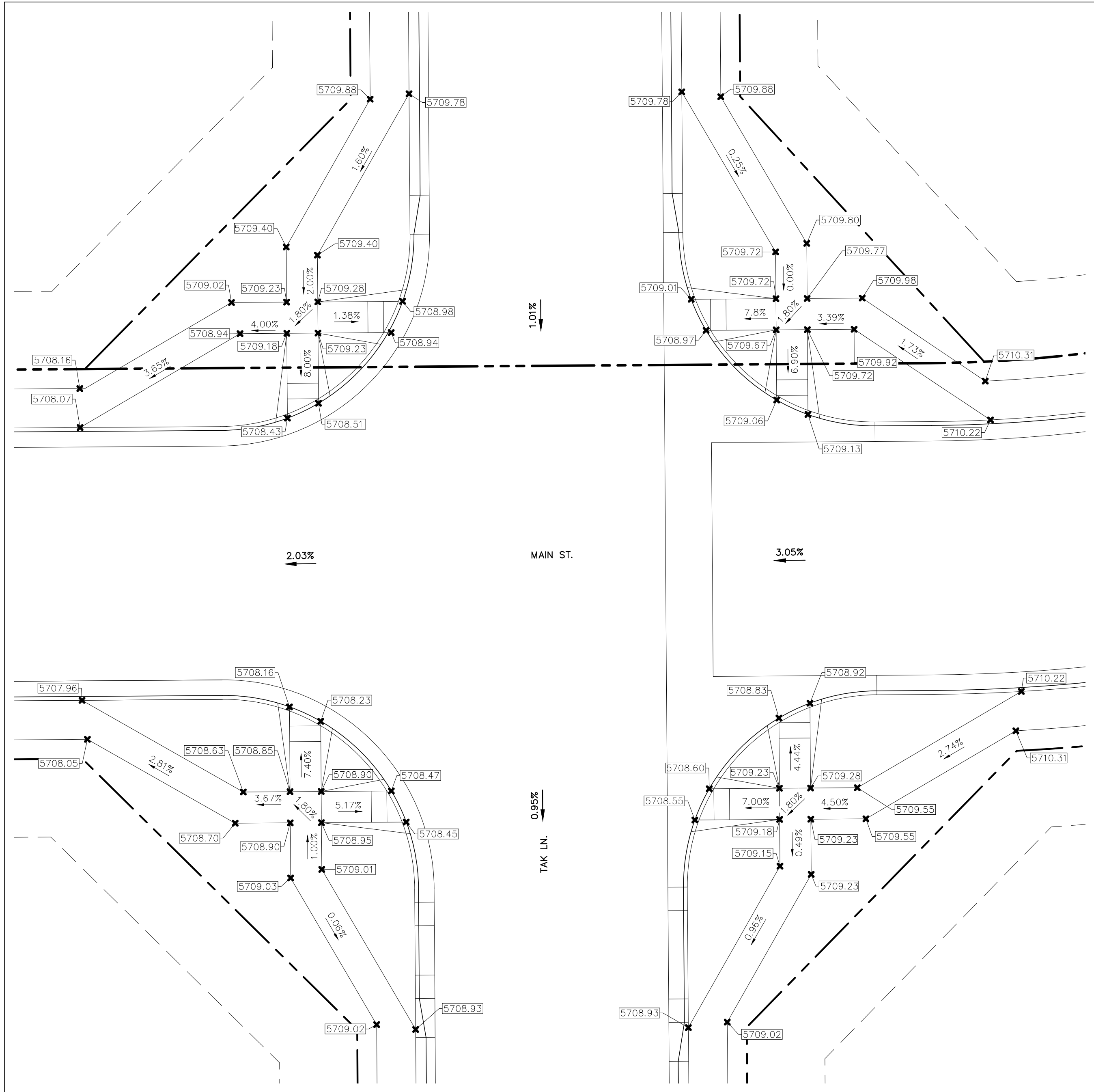
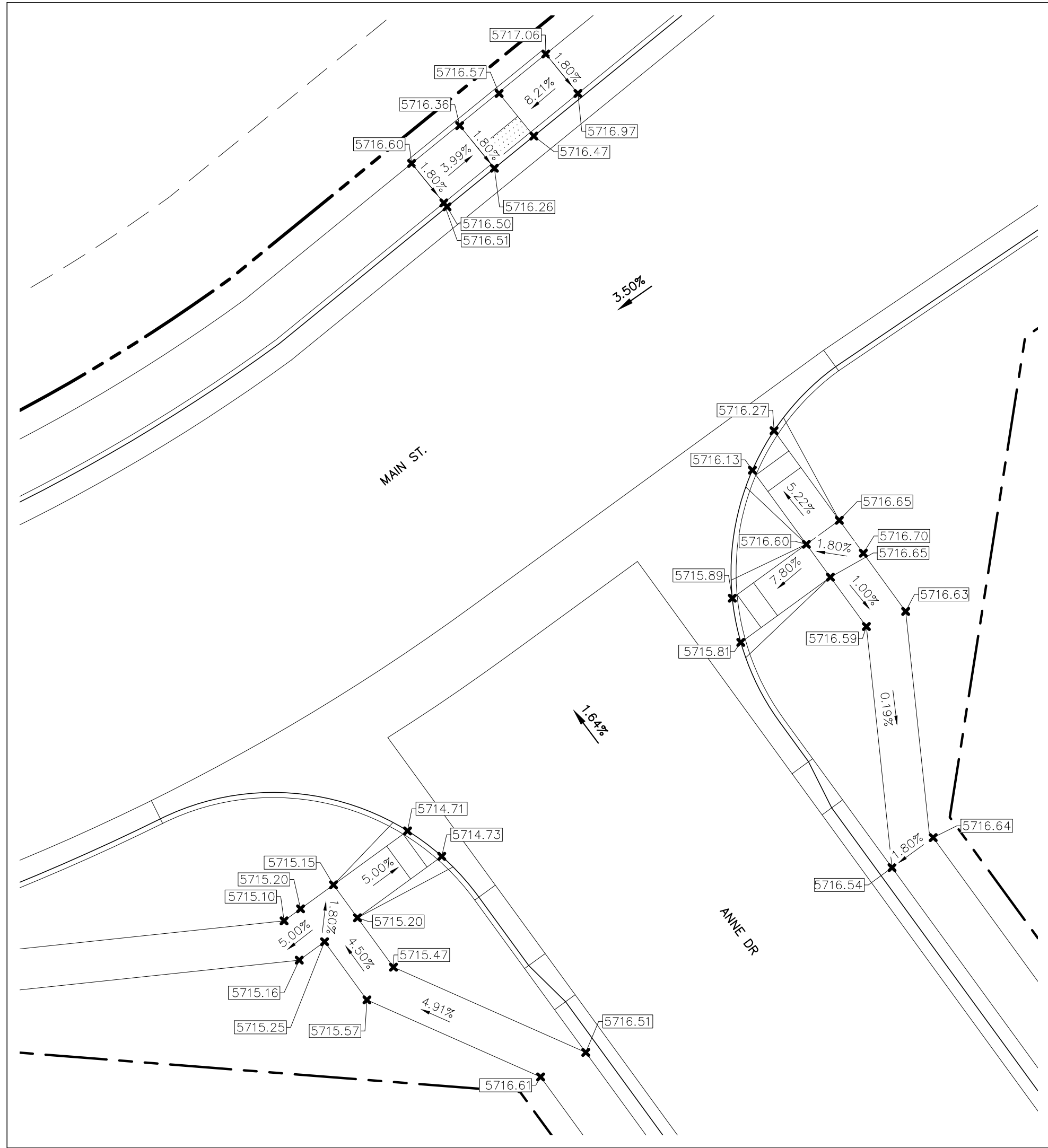
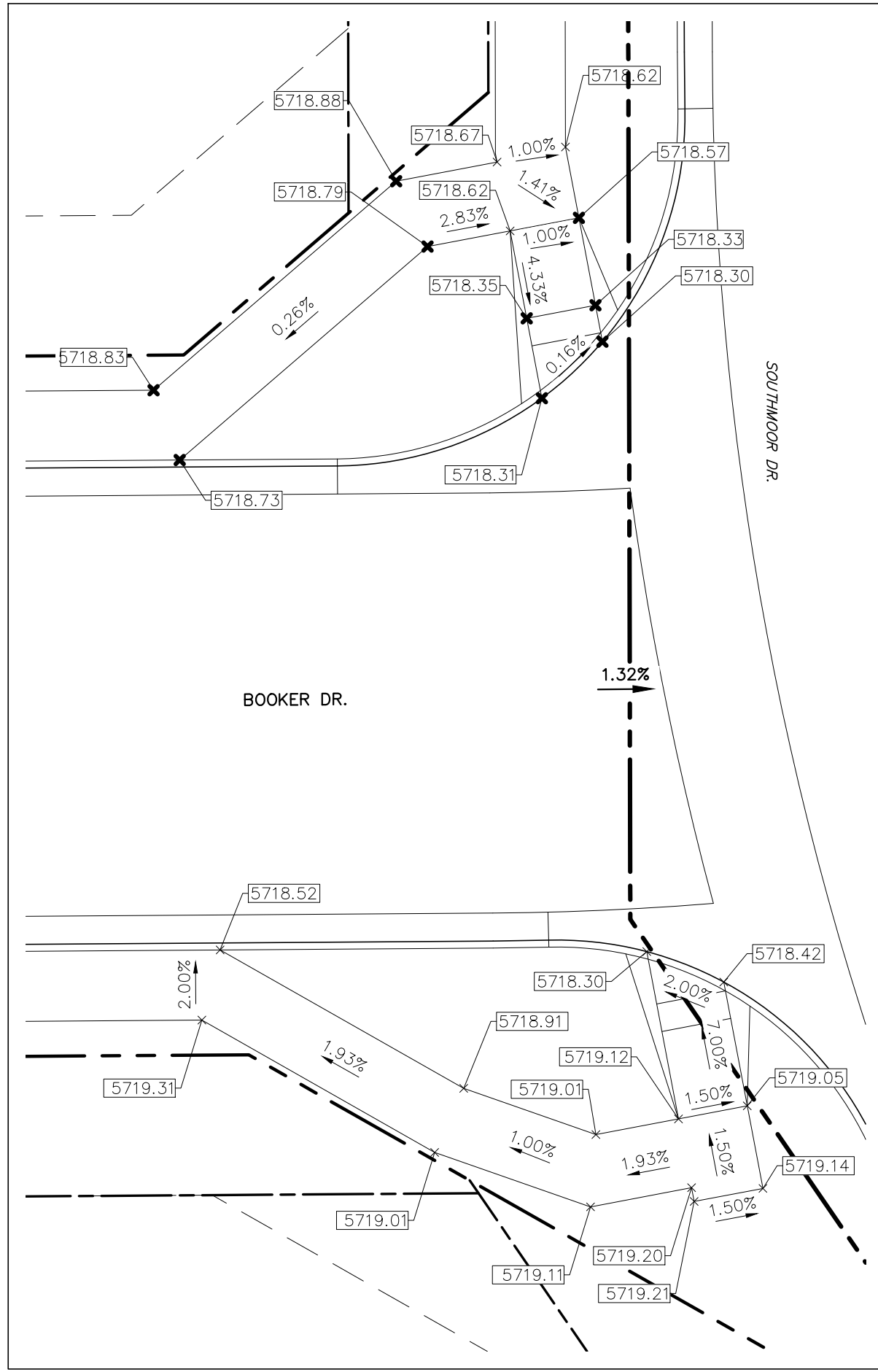
PREPARED FOR:
AVATAR EQUITIES, LLC
6800 JERICHO TURNPIKE
SUITE 120W #204
SYOSSET, NY 11791

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

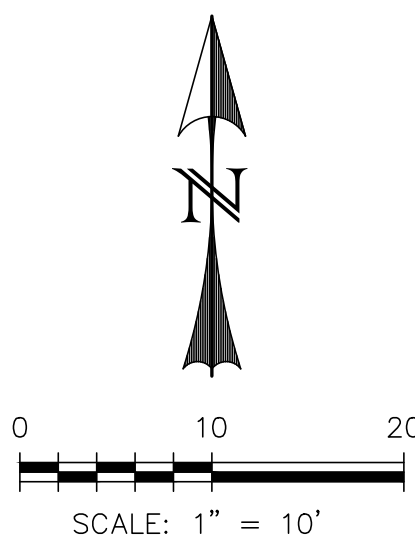
CATAMOUNT ENGINEERING
321 W. HENRIETTA AVE
WOODLAND PARK, CO 80866
PO BOX 221
(719) 428-2124

RIVERBEND CROSSING
FILING NO. 1
DETAIL SHEET

DESIGNED BY: MGP
DRAWN BY: MGP
SCALE: VARIES
DATE: 03/30/21
JOB NUMBER: 17-114
SHEET: 19 OF 27



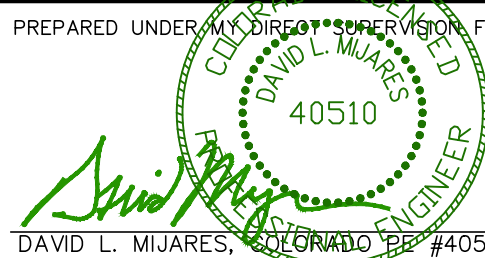
LOCATION MAP
SCALE: N.T.S.



REV.	DESCRIPTION	DATE
1	ADDRESS AGENCY COMMENTS	08/17/20

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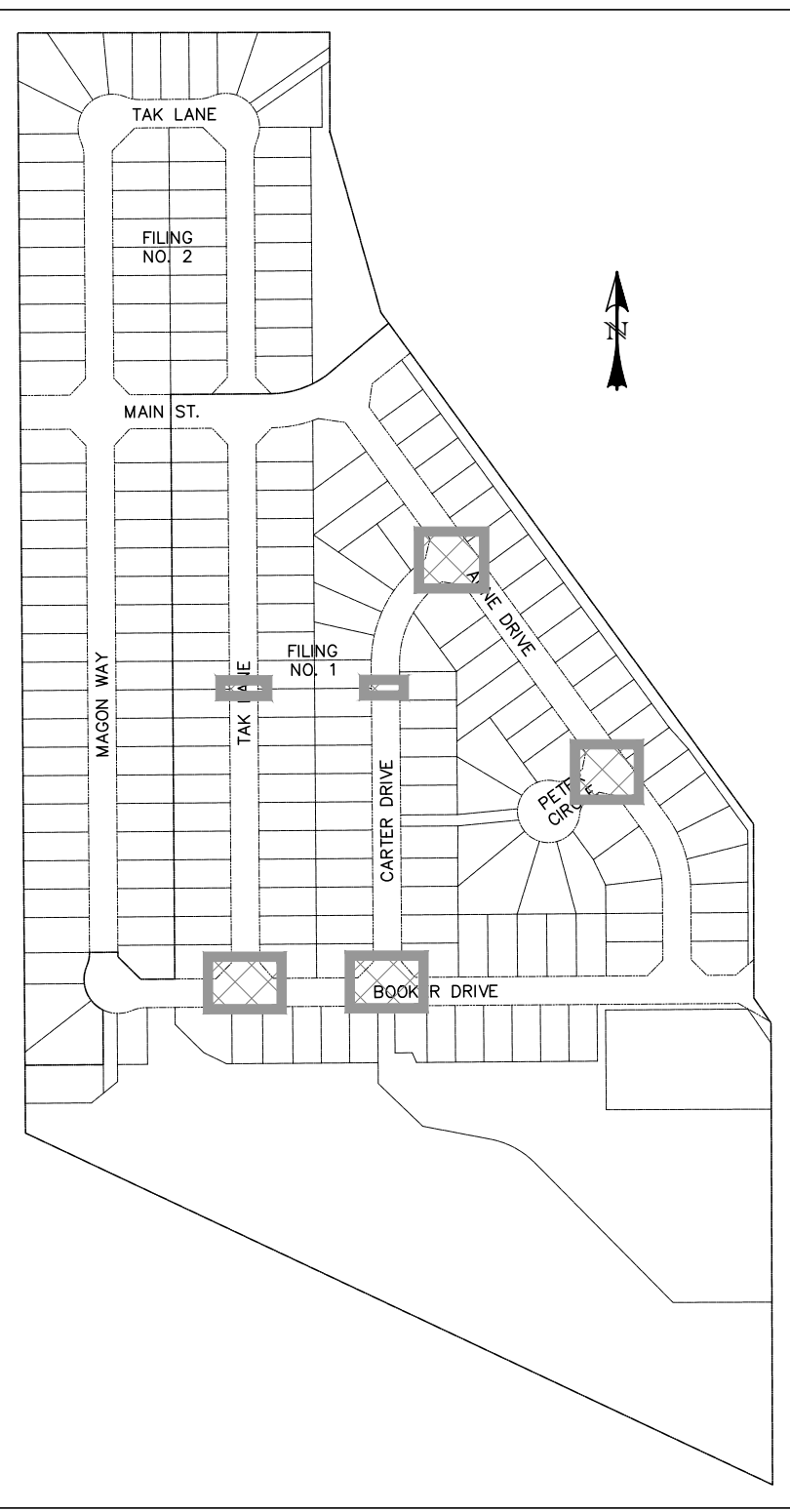
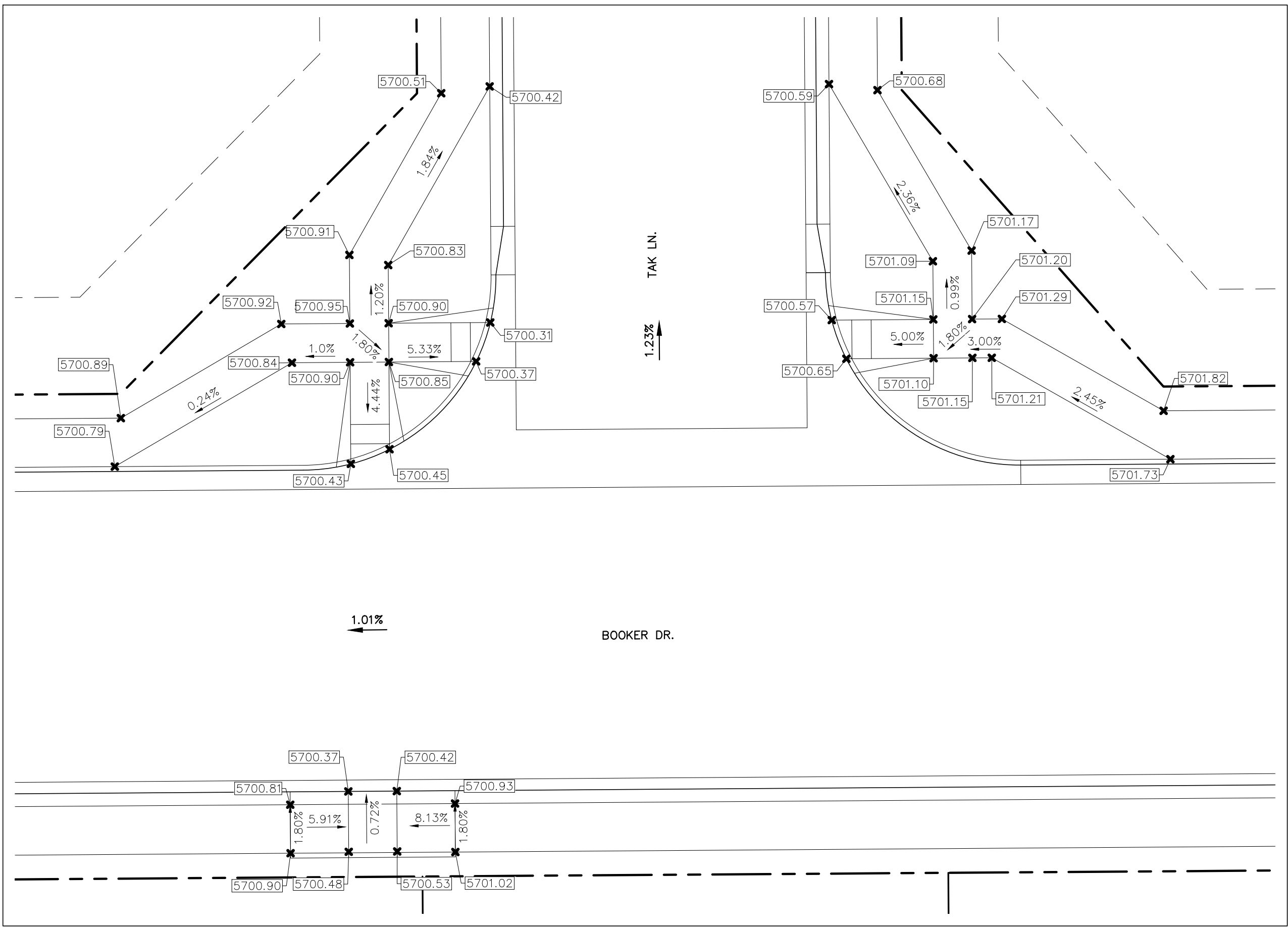
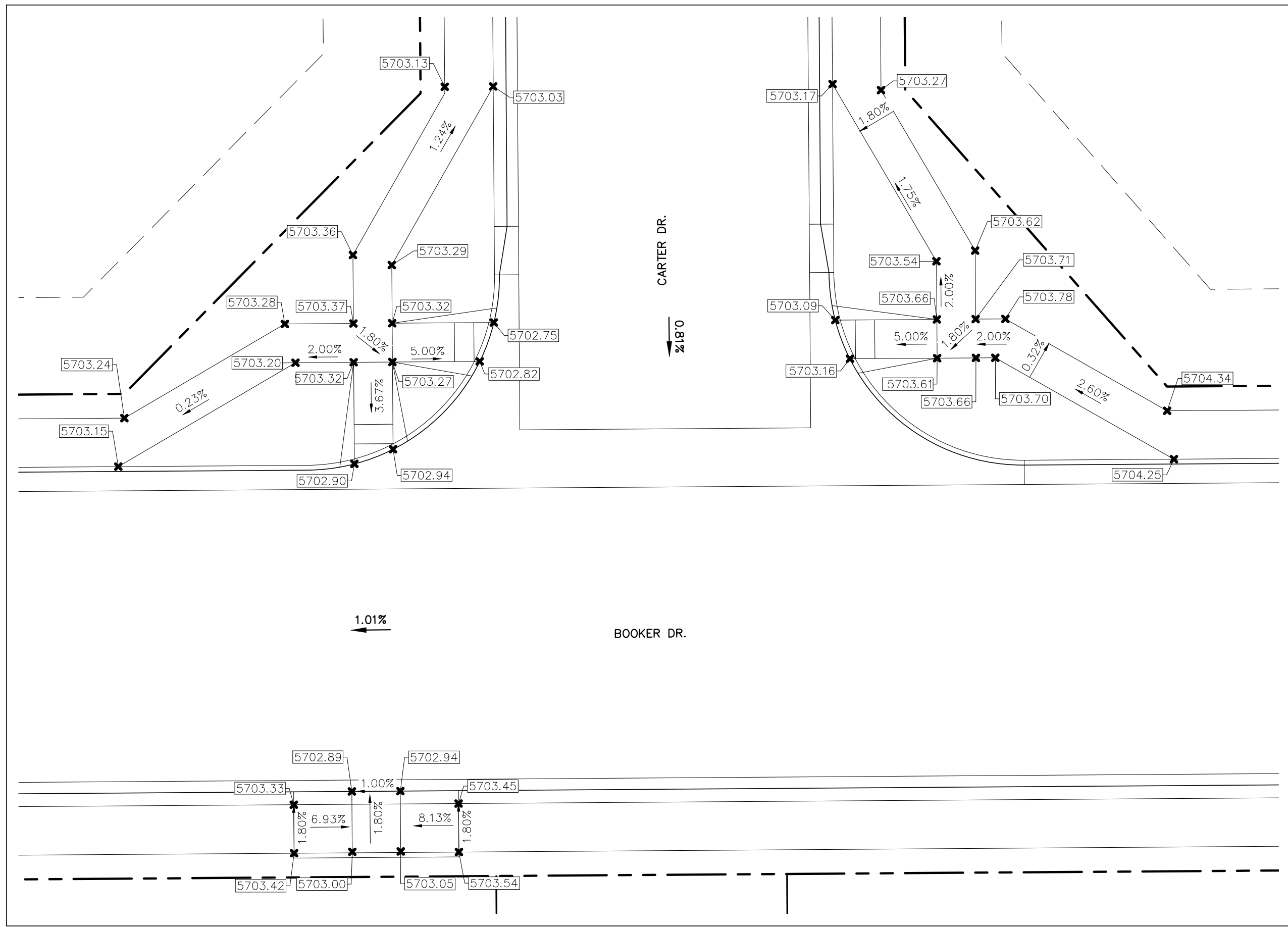
PREPARED FOR:
AVATAR EQUITIES, LLC
6800 JERICHO TURNPIKE
SUITE 120W #204
SYOSSET, NY 11791

PREPARED UNDER CONTRACT AND LICENSE FOR AND BEHALF OF CATAMOUNT ENGINEERING.

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

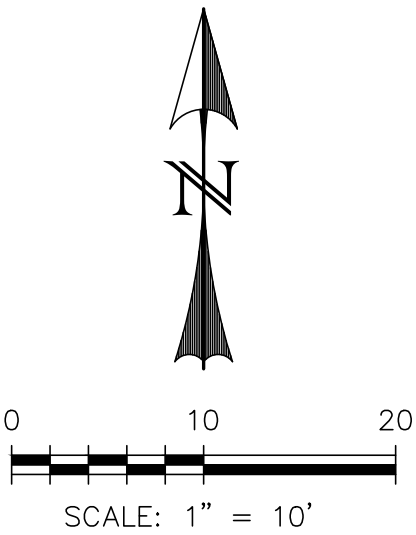
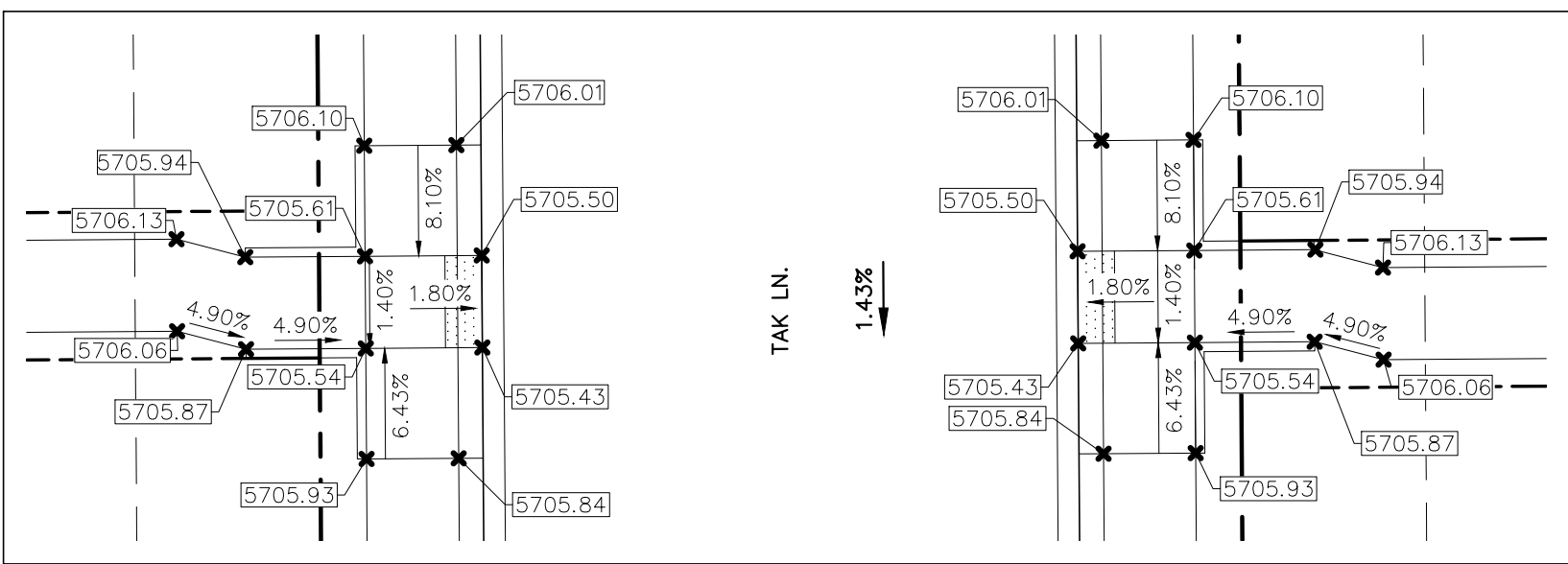
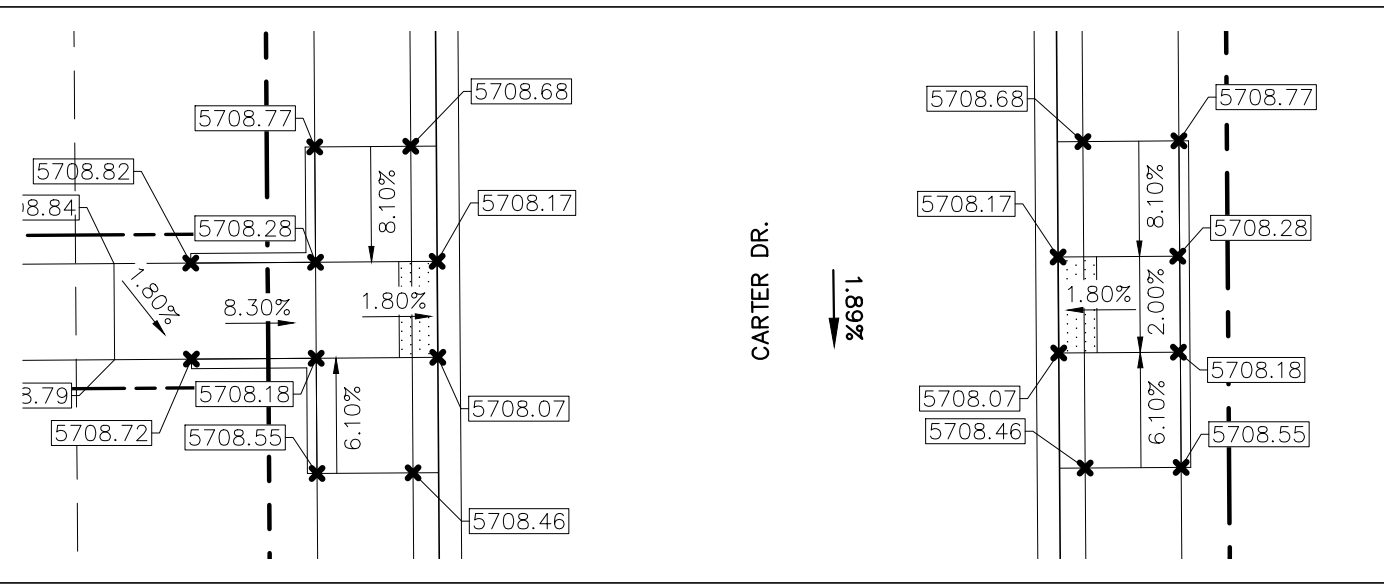
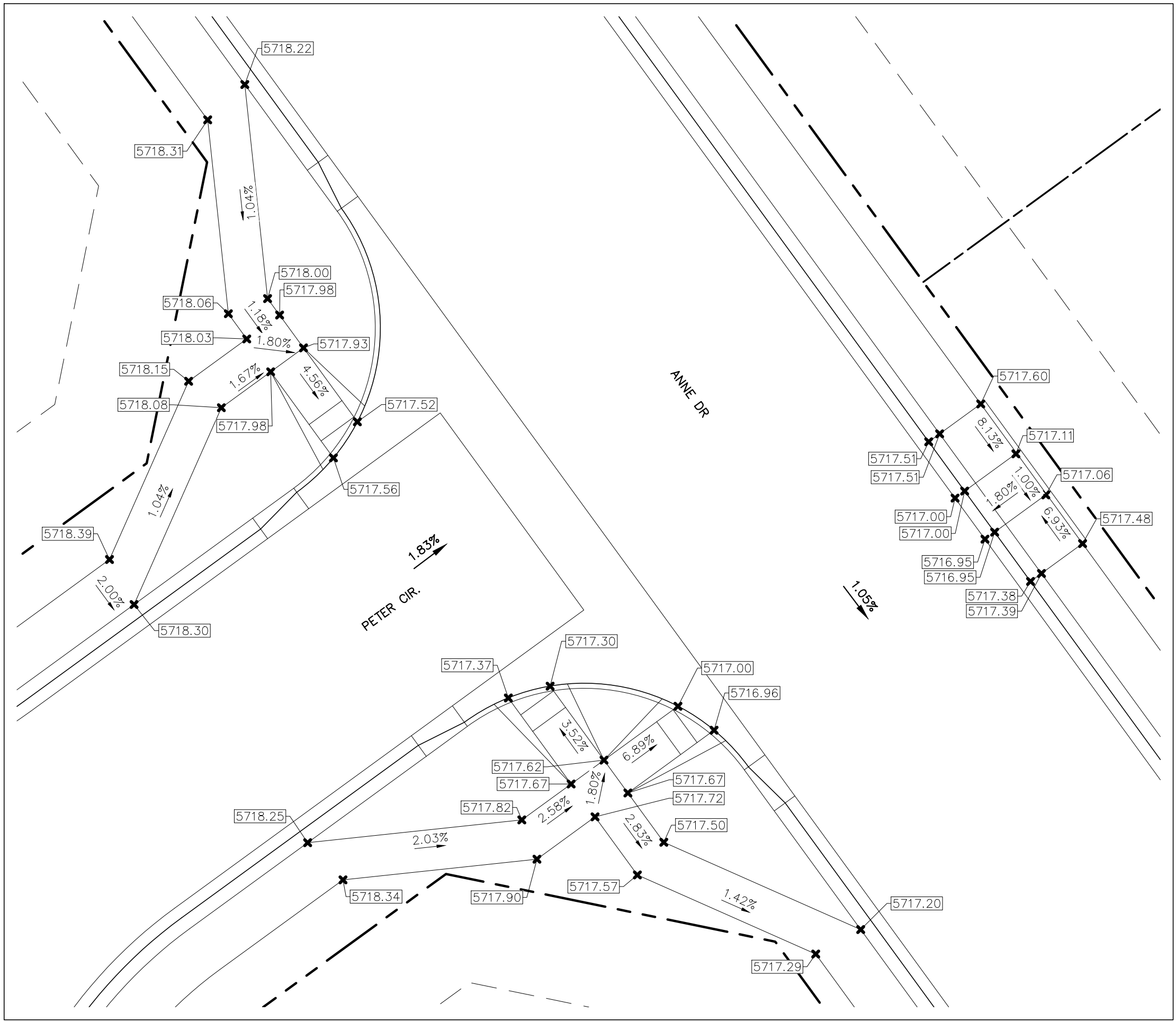
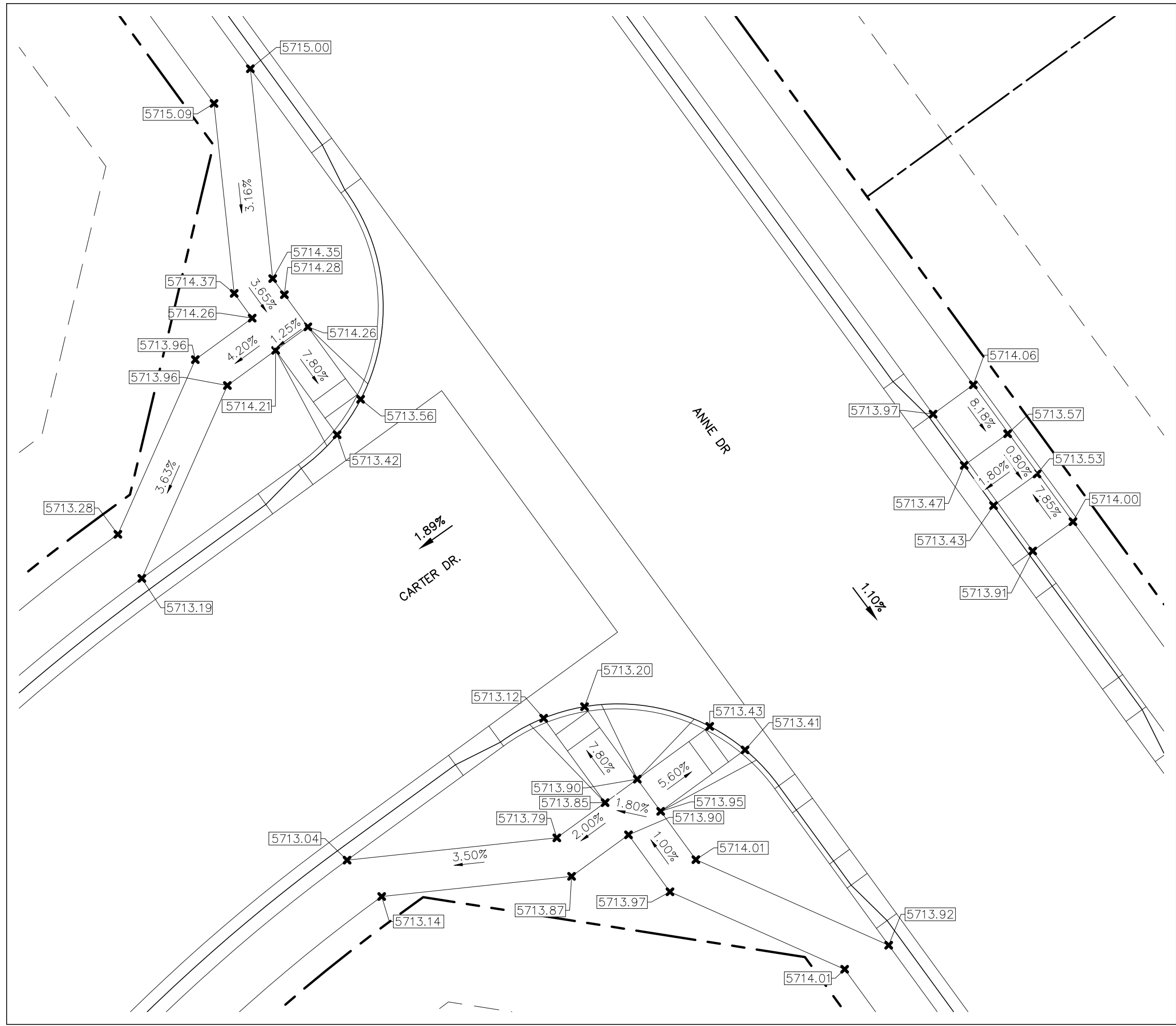

CATAMOUNT ENGINEERING
321 W. HENRIETTA AVE. WOODLAND PARK, CO 80869
PO BOX 221 (719)428-2124

**RIVERBEND CROSSING
FILING NO. 1**
PEDESTRIAN RAMP DETAILS

DESIGNED BY: XXX	DRAWN BY: MGP
SCALE: 1" = 10'	DATE: 03/30/21
JOB NUMBER 17-114	SHEET 20 OF 27




LOCATION MAP
SCALE: N.T.S.



REV.	DESCRIPTION	DATE
1	ADDRESS AGENCY COMMENTS	08/17/20

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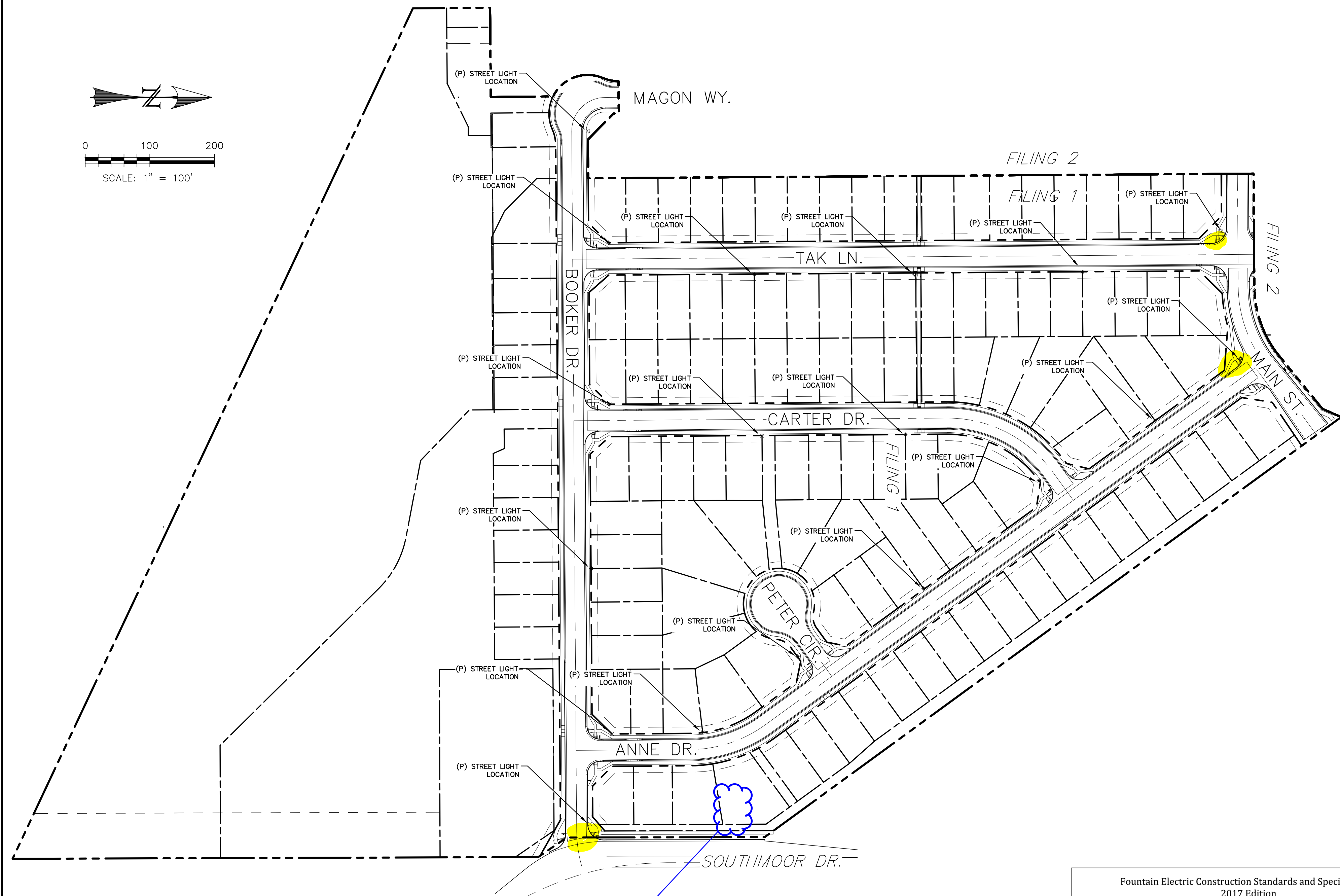
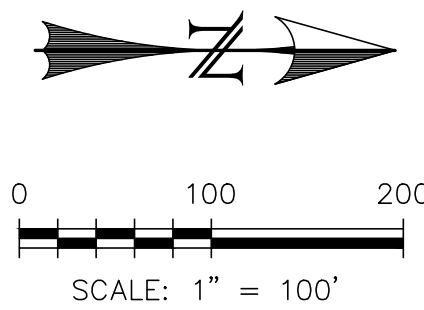
PREPARED FOR:
AVATAR EQUITIES, LLC
6800 JERICHO TURNPIKE
SUITE 120W #204
SYOSSET, NY 11791

PREPARED UNDER CONTRACT NO. 17-114 FOR AND BEHALF OF CATAMOUNT ENGINEERING.

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


CATAMOUNT ENGINEERING
321 W. HENRIETTA AVE. WOODLAND PARK, CO 80869
PO BOX 221 (719)428-2124

RIVERBEND CROSSING
FILING NO. 1
PEDESTRIAN RAMP DETAILS

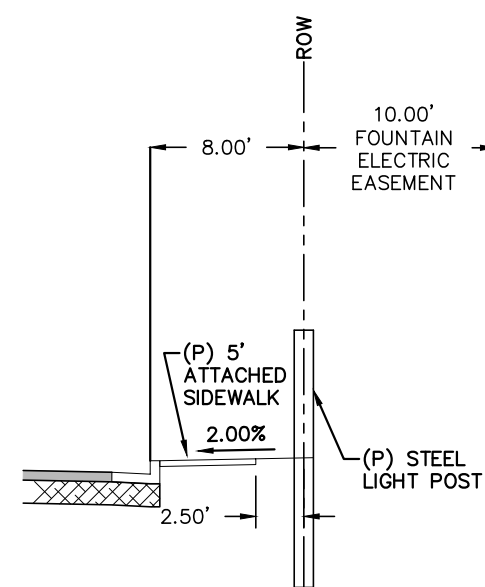
DESIGNED BY: XXX	DRAWN BY: MGP
SCALE: 1" = 10'	DATE: 03/30/21
JOB NUMBER 17-114	SHEET 21 OF 27



Provide a section detail showing the curb & gutter and light pole with dimension label for minimum distance of the light pole location from the back of curb.

Light pole must be placed outside the clear zone. See ECM Chapter 2 Section 2.3.5 for clear zone criteria.

Unresolved.
Provide typical light pole location detail for lights that are located directly behind the curb & gutter. Keep in mind offset must be outside the clearzone. Based on a 12' clear zone light pole shall be a min. 7' from front face of curb.



TYPICAL LIGHT POST LOCATION
(*SEE PLANS FOR LOCATIONS)
SCALE: N.T.S.

Fountain Electric Construction Standards and Specifications
2017 Edition

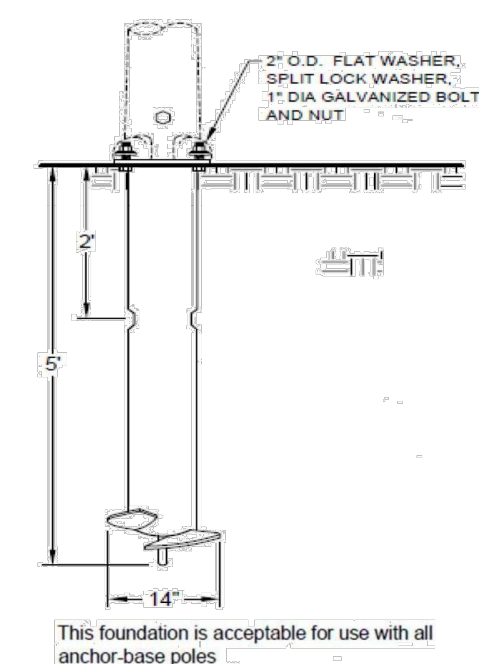
Locals-L1



Collector L2



Fountain Electric Construction Standards and Specifications
2017 Edition



- SCREW-IN BASE (FOUNDATION)
1. Install foundation just above grade.
 2. Avoid use in areas with existing underground utilities. If location is within 18" from the edge of the helix, if potholing is required, backfill around the screw-in base with flowable fill to achieve proper compaction.
 3. Neutral conductor shall be bonded to the pole at the pole grounding lug.
 4. This foundation is designed to be used with a maximum 40' steel pole with a 12' mast arm and a 75 lb. luminaire, under the condition of 100 m.p.h. winds.

Fountain Electric Construction Standards and Specifications
2017 Edition

Street Lights

Overview
The intent of this policy is to specify street lighting standards to be uniformly implemented throughout the certified service territory of the Electric Department. This policy has been designed to promote vehicle and pedestrian safety that is fair and affordable to the residents of the territory.

The purpose of the Standard

For the installation of all street lighting fixtures (luminaires) to be in conformance with this Standard as well as the provisions of the International Dark-Sky Association where feasible.

Contract Lights

The City will install private property contract lighting. (See City of Fountain tariff for pricing.)

New Subdivisions

The developer shall pay the full capital costs of every light to be installed by the Electric Department. This includes, but is not limited to, poles, fixtures, underground wiring, and any equipment necessary to construct an operational lighting system.

Residential Streets - Minimum Standards

Street lights shall be located at all intersections and 250' or every four lots between the intersections. Street light standards shall be as follows:
Standard Street Light Type: 22' direct-buried fiberglass pole, 100W high pressure sodium or LED equivalent, full cutoff post top style fixture.

Collector Streets in Residential Areas - Minimum Standards

Street lights shall be located at all intersections and 250' spacing between the intersections. Street light standards shall be as follows:
Standard Street Light Type: 25' steel pole, 8' mast arm, 100W high pressure sodium or LED equivalent, and full cutoff Cobra head style fixture.

- Alternatives to the standards listed above may be proposed for consideration by Electric Department.

Arterial Streets - Minimum Standards

Street lighting shall be located at all intersections and 185' spacing between the intersections. Street light standards shall be as follows:
Standard Street Light Type: 32' AL pole, 8' mast arm, 400W high pressure sodium or LED equivalent, and full cutoff Cobra head style fixture.

- Alternatives to the standards listed above may be proposed for consideration by the Electric Department **Operation and Maintenance**

Fountain Electric Construction Standards and Specifications
2017 Edition

The replacement of lamps, fixtures, and poles are maintained by the Electric Department.

Residents are requested to contact the Electric Department for street lights that are not operating, stay on continuously, or are turning on and off repeatedly.

Maintenance costs, which include power, equipment failures and equipment replacement, are covered through the operating costs of the street lights and shall be a cost to the City of Fountain.

REV.	DESCRIPTION	DATE



PREPARED FOR:

PREPARED UNDER CONTRACT FOR AND BEHALF OF CATAMOUNT ENGINEERING.



03/26/21
DATE



LIGHTING PLAN

DESIGNED BY: DLM	DRAWN BY: DBM
SCALE: 1" = 100'	DATE: 03/30/21
JOB NUMBER 17-114	SHEET 22 OF 27

BASIC GRADING, EROSION AND STORMWATER QUALITY REQUIREMENTS AND GENERAL PROHIBITIONS:

*INFORMATION TAKEN FROM THE EL PASO COUNTY DRAINAGE CRITERIA MANUAL VOLUME 2, HEREIN REFERRED TO AS THE "MANUAL".

- STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR DEGRADATION OF STATE WATERS.
- CONCRETE WASH WATER SHALL NOT BE DISCHARGED TO OR ALLOWED TO RUNOFF TO STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM FACILITIES.
- BUILDING, CONSTRUCTION, EXCAVATION, OR OTHER WASTE MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN THE STREET, ALLEY, OR OTHER PUBLIC WAY, UNLESS IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. BMP'S MAY BE REQUIRED BY COUNTY ENGINEERING IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES (E.G., ESTIMATED TIME OF EXPOSURE, SEASON OF THE YEAR, ETC.).
- VEHICLE TRACKING OF SOILS OFF-SITE SHALL BE MINIMIZED.
- ALL WASTES COMPOSED OF BUILDING MATERIALS MUST BE REMOVED FROM THE CONSTRUCTION SITE FOR DISPOSAL IN ACCORDANCE WITH LOCAL AND STATE REGULATORY REQUIREMENTS. NO BUILDING MATERIAL WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE.
- NO CHEMICALS ARE TO BE USED BY THE CONTRACTOR, WHICH HAVE THE POTENTIAL TO BE RELEASED IN STORMWATER UNLESS PERMISSION FOR THE USE OF A SPECIFIC CHEMICAL IS GRANTED IN WRITING BY THE COUNTY ENGINEER. IN GRANTING THE USE OF SUCH CHEMICALS, SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED.
- BULK STORAGE STRUCTURES FOR PETROLEUM PRODUCTS AND OTHER CHEMICALS SHALL HAVE ADEQUATE PROTECTION SO AS TO CONTAIN ALL SPILLS AND PREVENT ANY SPILLED MATERIAL FROM ENTERING STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES.
- ALL PERSONS ENGAGED IN EARTH DISTURBANCE SHALL IMPLEMENT AND MAINTAIN ACCEPTABLE SOIL EROSION AND SEDIMENT CONTROL MEASURES INCLUDING BMP'S IN CONFORMANCE WITH THE EROSION CONTROL TECHNICAL STANDARDS OF THE MANUAL AND IN ACCORDANCE WITH THE EROSION AND STORMWATER QUALITY CONTROL PLAN APPROVED BY THE COUNTY OF EL PASO, IF REQUIRED.
- ALL TEMPORARY EROSION CONTROL FACILITIES INCLUDING BMP'S AND ALL PERMANENT FACILITIES INTENDED TO CONTROL EROSION OF ANY EARTH DISTURBANCE OPERATIONS, SHALL BE INSTALLED AS DEFINED IN THE APPROVED PLANS AND THE MANUAL AND MAINTAINED THROUGHOUT THE DURATION OF THE EARTH DISTURBANCE OPERATION. THE INSTALLATION OF THE FIRST LEVEL OF TEMPORARY EROSION CONTROL FACILITIES AND BMP'S SHALL BE INSTALLED AND INSPECTED PRIOR TO ANY EARTH DISTURBANCE OPERATIONS TAKING PLACE.
- ANY EARTH DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO EFFECTIVELY REDUCE ACCELERATED SOIL EROSION AND RESULTING SEDIMENTATION.
- ALL EARTH DISTURBANCES SHALL BE DESIGNED, CONSTRUCTED, AND COMPLETED IN SUCH A MANNER SO THAT THE EXPOSED AREA OF ANY DISTURBED LAND SHALL BE LIMITED TO THE SHORTEST PRACTICAL PERIOD OF TIME.
- ALL WORK AND EARTH DISTURBANCE SHALL BE DONE IN A MANNER THAT MINIMIZES POLLUTION OF ANY ON-SITE OR OFF-SITE WATERS, INCLUDING WETLANDS.
- SUSPENDED SEDIMENT CAUSED BY ACCELERATED SOIL EROSION SHALL BE MINIMIZED IN RUNOFF WATER BEFORE IT LEAVES THE SITE OF THE EARTH DISTURBANCE.
- ANY TEMPORARY OR PERMANENT FACILITY DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF STORMWATER AROUND, THROUGH, OR FROM THE EARTH DISTURBANCE AREA SHALL BE DESIGNED TO LIMIT THE DISCHARGE TO A NON-EROSIVE VELOCITY.
- TEMPORARY SOIL EROSION CONTROL FACILITIES SHALL BE REMOVED AND EARTH DISTURBANCE AREAS GRADED AND STABILIZED WITH PERMANENT SOIL EROSION CONTROL MEASURES PURSUANT TO THE STANDARDS AND SPECIFICATIONS PRESCRIBED IN THE MANUAL AND IN ACCORDANCE WITH THE EROSION AND STORMWATER QUALITY CONTROL PLANS APPROVED BY THE COUNTY OF EL PASO, IF REQUIRED.
- SOIL EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, OR ANY DISTURBED LAND AREA SHALL BE COMPLETED WITHIN TWENTY-ONE (21) CALENDAR DAYS AFTER FINAL GRADING, OR FINAL EARTH DISTURBANCE, HAS BEEN COMPLETED. DISTURBED AREAS AND STOCKPILES WHICH ARE NOT AT FINAL GRADE BUT WILL REMAIN DORMANT FOR LONGER THAN 30 DAYS SHALL ALSO BE MULCHED WITHIN 21 DAYS AFTER INTERIM GRADING. AN AREA THAT IS GOING TO REMAIN IN AN INTERIM STATE FOR MORE THAN 60 DAYS SHALL ALSO BE SEED. ALL TEMPORARY SOIL EROSION CONTROL MEASURES AND BMP'S SHALL BE MAINTAINED UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED.
- NO PERSON SHALL CAUSE, PERMIT, OR CONTRIBUTE TO THE DISCHARGE INTO THE MUNICIPAL SEPARATE STORM SEWER POLLUTANTS THAT COULD CAUSE THE COUNTY OF EL PASO TO BE IN VIOLATION OF ITS COLORADO DISCHARGE PERMIT SYSTEM MUNICIPAL STORMWATER DISCHARGE PERMIT.
- THE OWNER, SITE DEVELOPER, CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK, SEDIMENT, AND SAND THAT MAY ACCUMULATE IN THE STORM SEWER OR OTHER DRAINAGE CONVEYANCE SYSTEM AND STORMWATER APPURTENANCES AS A RESULT OF SITE DEVELOPMENT.
- NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE FLOW LINE OF THE CURB AND GUTTER, INCLUDING THE TEMPORARY OR PERMANENT RAMPING WITH MATERIALS FOR VEHICLE ACCESS.
- INDIVIDUALS SHALL COMPLY WITH THE "COLORADO WATER QUALITY CONTROL ACT" (TITLE 25, ARTICLE 8, CRS), AND THE "CLEAN WATER ACT" (33 USC 1344), REGULATIONS PROMULGATED, CERTIFICATIONS OR PERMITS ISSUED, IN ADDITION TO THE REQUIREMENTS INCLUDED IN THE MANUAL. IN THE EVENT OF CONFLICT BETWEEN THESE REQUIREMENTS AND WATER QUALITY CONTROL LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL OR STATE AGENCIES, THE MORE RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.
- THE QUANTITY OF MATERIALS STORED ON THE PROJECT SITE SHALL BE LIMITED, AS MUCH AS PRACTICAL, TO THAT QUANTITY REQUIRED TO PERFORM IN AN ORDERLY SEQUENCE. ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER, IN THEIR ORIGINAL CONTAINERS, WITH ORIGINAL MANUFACTURER'S LABELS. MATERIALS SHALL NOT BE STORED IN A LOCATION WHERE THEY MAY BE CARRIED BY STORMWATER RUNOFF INTO A STATE WATER AT ANY TIME.
- SPILL PREVENTION AND CONTAINMENT MEASURES SHALL BE USED AT STORAGE, AND EQUIPMENT FUELING AND SERVICING AREAS TO PREVENT THE POLLUTION OF ANY STATE WATERS, INCLUDING WETLANDS. ANY SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY, OR CONTAINED UNTIL APPROPRIATE CLEANUP METHODS CAN BE EMPLOYED. MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP SHALL BE FOLLOWED, ALONG WITH PROPER DISPOSAL METHODS.

EROSION PROTECTION & REVEGETATION REQUIREMENTS
*PER U.S.D.A. SOIL CONSERVATION SERVICE GUIDELINES:

1. PRACTICE NO. & NAME: 342 - CRITICAL AREA TREATMENT
RANGE SITE: SANDY FOOTHILLS

2. PLANNED SEEDING PREP:
A. METHOD: DRILL
B. DATES OCT. 15-MAY 31
C. CLEAN TILLED: XX
D. FIRM SEEDBED: XX
E. STUBBLE COVER
F. INTERSEED
G. OTHER

SEEDING OPERATION:
A. METHOD: DRILL
B. INTERSEED
C. BROADCAST
D. TYPE: GRASS 2/AGITATOR
E. DATE: OCT. 15 - MAY 31
F. PLANTING DEPTH: 1/2"

WEED CONTROL: N/A
MOWING: XX
CHEMICAL: XX
DATES: XX
SEE S.C.S. FOR SPECIFIC RECOMMENDATIONS AT HERBICIDE APPLICATION TIME

FERTILIZER:
POUNDS ACTUAL PER ACRE: 40
AVAILABLE: 40
P205: 40
K: N/A

MULCH:
KIND: LONG-STEM NATIVE HAY
AMOUNT: 4,000
HOW-APPLIED: N/A
HOW-ANCHORED: GEOTEXTILE
ANCHORAGE DEPTH: 4"

SEED:
VARIETY: SPECIES
GOSHEN: PRAIRIE SANDREED
VAUGHN: SIEDATS GRAMMA
LOVINGTON: BLUE GRAMMA
BLACKWELL: SWITCH GRASS
PASTURA: LITTLE BLUESTEM

REQUIRED PLS. RATES PER ACRES (1000):
GOSHEN: 6.5
VAUGHN: 9.0
LOVINGTON: 3.0
BLACKWELL: 4.0
PASTURA: 7.5

(2) PLS. SEEDING RATE (4) TOTAL PLS. LBS./ SPECIES PLANNED (3) x (4)
X OF SPECIES PER SPECIES/ACRE
IN MIXTURE

15 0.98 43.6 42.7
25 2.25 43.6 98.1
15 0.45 43.6 19.6
20 0.90 43.6 29.2
25 1.75 43.6 76.3

15 0.98 43.6 42.7
25 2.25 43.6 98.1
15 0.45 43.6 19.6
20 0.90 43.6 29.2
25 1.75 43.6 76.3

15 0.98 43.6 42.7
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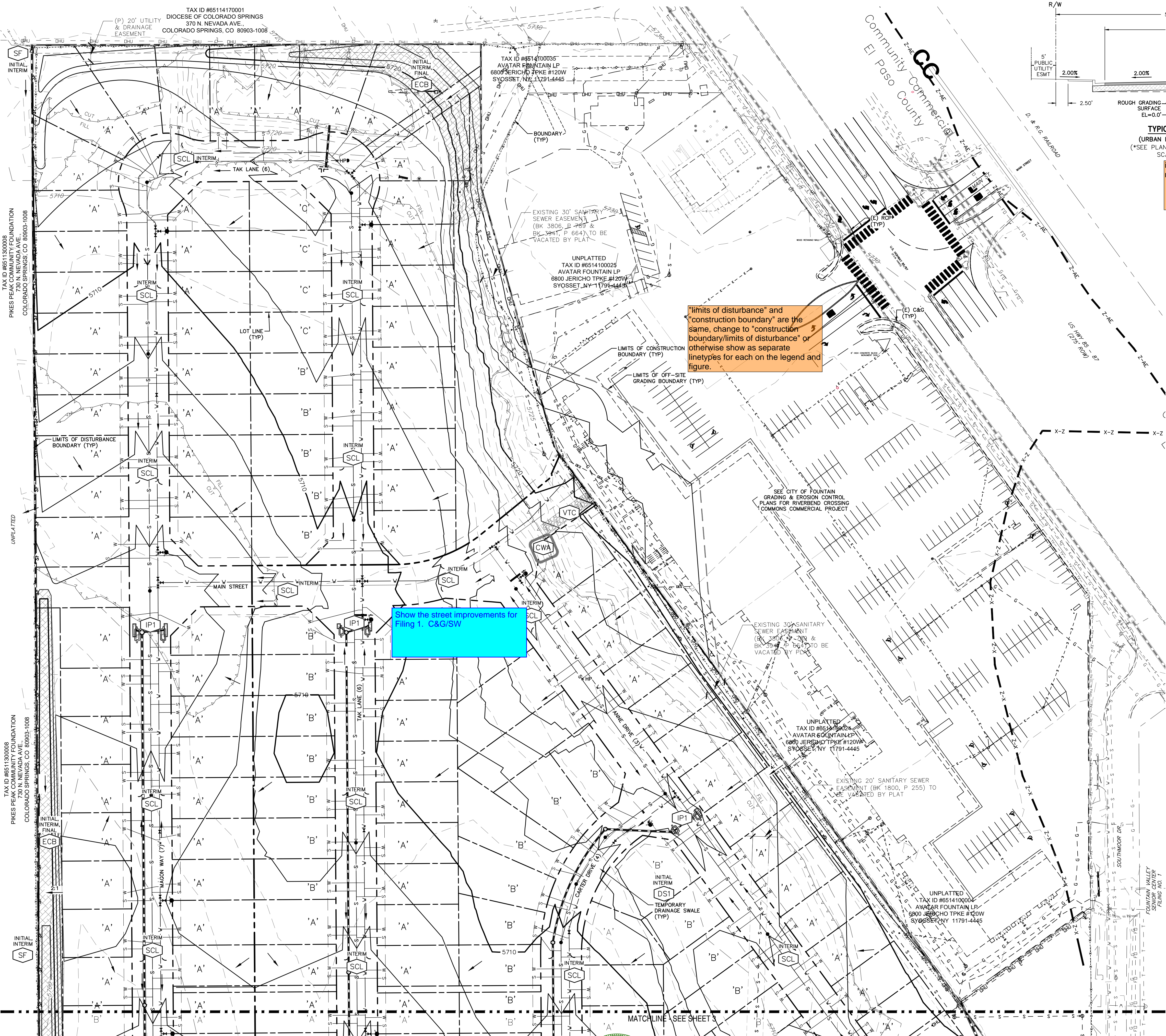
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15 0.98 43.6 42.7
25 2.25 43.6 98.1
15 0.45 43.6 19.6
20 0.90 43.6 29.2
25 1.75 43.6 76.3



include legend for all erosion control measures

NOTES:

- EXISTING VEGETATION ON THIS SITE PRIMARILY CONSIST OF GRASSES AND WEEDS.

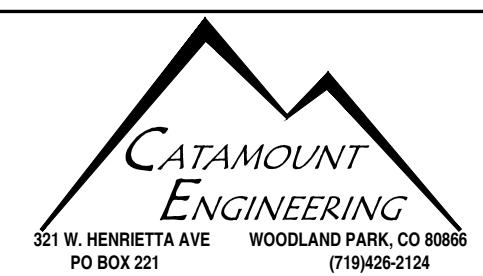
REV.	DESCRIPTION	DATE
1	ADDRESS AGENCY COMMENTS	08/17/20



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

PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF CATAMOUNT ENGINEERING.
DAVID L. MUIRES, COLORADO PROFESSIONAL ENGINEER
40510
10/19/20
DATE



RIVERBEND CROSSING
FILING NO. 1
GRADING & EROSION
CONTROL PLAN

DESIGNED BY:	DLM	DRAWN BY:	MGP
SCALE:	1" = 60'	DATE:	03/30/21
JOB NUMBER	17-114	SHEET	23 OF 27

BASIC GRADING, EROSION AND STORMWATER QUALITY REQUIREMENTS AND GENERAL PROHIBITIONS:

- *INFORMATION TAKEN FROM THE EL PASO COUNTY DRAINAGE CRITERIA MANUAL VOLUME 2, HEREIN REFERRED TO AS THE "MANUAL."
- STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR DEGRADATION OF STATE WATERS. ALL WORK AND EARTH DISTURBANCE SHALL BE DONE IN A MANNER THAT MINIMIZES POLLUTION OF ANY ON-SITE OR OFF-SITE WATERS, INCLUDING WETLANDS.
 - CONCRETE WASH WATER SHALL NOT BE DISCHARGED TO OR ALLOWED TO RUNOFF TO STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM FACILITIES.
 - BUILDING, CONSTRUCTION, EXCAVATION, OR OTHER WASTE MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN THE STREET, ALLEY, OR OTHER PUBLIC WAY, UNLESS IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. BMP'S MAY BE REQUIRED BY COUNTY ENGINEERING IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES (E.G., ESTIMATED TIME OF EXPOSURE, SEASON OF THE YEAR, ETC.).
 - VEHICLE TRACKING OF SOILS OFF-SITE SHALL BE MINIMIZED.
 - ALL WASTES COMPOSED OF BUILDING MATERIALS MUST BE REMOVED FROM THE CONSTRUCTION SITE FOR DISPOSAL IN ACCORDANCE WITH LOCAL AND STATE REGULATORY REQUIREMENTS. NO BUILDING MATERIAL WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE.
 - NO CHEMICALS ARE TO BE USED BY THE CONTRACTOR, WHICH HAVE THE POTENTIAL TO BE RELEASED IN STORMWATER UNLESS PERMISSION FOR THE USE OF A SPECIFIC CHEMICAL IS GRANTED IN WRITING BY THE COUNTY ENGINEER. IN GRANTING THE USE OF SUCH CHEMICALS, SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED.
 - BULK STORAGE STRUCTURES FOR PETROLEUM PRODUCTS AND OTHER CHEMICALS SHALL HAVE ADEQUATE PROTECTION SO AS TO CONTAIN ALL SPILLS AND PREVENT ANY SPILLED MATERIAL FROM ENTERING STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM FACILITIES.
 - ALL PERSONS ENGAGED IN EARTH DISTURBANCE SHALL IMPLEMENT AND MAINTAIN ACCEPTABLE SOIL EROSION AND SEDIMENT CONTROL MEASURES IN CONFORMANCE WITH THE EROSION CONTROL TECHNICAL STANDARDS OF THE MANUAL AND IN ACCORDANCE WITH THE EROSION AND STORMWATER QUALITY CONTROL PLAN APPROVED BY THE COUNTY OF EL PASO, IF REQUIRED.
 - ALL TEMPORARY EROSION CONTROL FACILITIES INCLUDING BMP'S AND ALL PERMANENT FACILITIES INTENDED TO CONTROL EROSION OF ANY EARTH DISTURBANCE OPERATIONS, SHALL BE INSTALLED AS DEFINED IN THE APPROVED PLANS AND THE MANUAL AND MAINTAINED THROUGHOUT THE DURATION OF THE EARTH DISTURBANCE OPERATION. THE INSTALLATION OF THE FIRST LEVEL OF TEMPORARY EROSION CONTROL FACILITIES AND BMP'S SHALL BE INSTALLED AND INSPECTED PRIOR TO ANY EARTH DISTURBANCE OPERATIONS TAKING PLACE.
 - ANY EARTH DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO EFFECTIVELY REDUCE ACCELERATED SOIL EROSION AND RESULTING SEDIMENTATION.
 - ALL EARTH DISTURBANCES SHALL BE DESIGNED, CONSTRUCTED, AND COMPLETED IN SUCH A MANNER SO THAT THE EXPOSED AREA OF ANY DISTURBED LAND SHALL BE LIMITED TO THE SHORTEST PRACTICAL PERIOD OF TIME.
 - ALL WORK AND EARTH DISTURBANCE SHALL BE DONE IN A MANNER THAT MINIMIZES POLLUTION OF ANY ON-SITE OR OFF-SITE WATERS, INCLUDING WETLANDS.
 - SUSPENDED SEDIMENT CAUSED BY ACCELERATED SOIL EROSION SHALL BE MINIMIZED IN RUNOFF WATER BEFORE IT LEAVES THE SITE OF THE EARTH DISTURBANCE.
 - ANY TEMPORARY OR PERMANENT FACILITY DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF STORMWATER AROUND, THROUGH, OR FROM THE EARTH DISTURBANCE AREA SHALL BE DESIGNED TO LIMIT THE DISCHARGE TO A NON-EROSIVE VELOCITY.
 - TEMPORARY SOIL EROSION CONTROL FACILITIES SHALL BE REMOVED AND EARTH DISTURBANCE AREAS GRADED AND STABILIZED WITH PERMANENT SOIL EROSION MEASURES PURSUANT TO THE STANDARDS AND SPECIFICATIONS PRESCRIBED IN THE MANUAL, AND IN ACCORDANCE WITH THE PERMANENT EROSION CONTROL FEATURES SHOWN ON THE EROSION AND STORMWATER QUALITY CONTROL PLANS APPROVED BY THE COUNTY OF EL PASO, IF REQUIRED.
 - SOIL EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, OR ANY DISTURBED LAND AREA SHALL BE COMPLETED WITHIN TWENTY-ONE (21) CALENDAR DAYS AFTER FINAL GRADING, OR FINAL EARTH DISTURBANCE, HAS BEEN COMPLETED. DISTURBED AREAS AND STOCKPILES WHICH ARE NOT AT FINAL GRADE BUT WILL REMAIN DORMANT FOR LONGER THAN 30 DAYS SHALL ALSO BE MULCHED WITHIN 21 DAYS AFTER INTERIM GRADING. AN AREA THAT IS GOING TO REMAIN IN AN INTERIM STATE FOR MORE THAN 30 DAYS SHALL ALSO BE "SEEDED" WITH TEMPORARY STORMWATER QUALITY CONTROL MEASURES AND BMP'S SHALL BE MAINTAINED UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED.
 - NO PERSON SHALL CAUSE, PERMIT, OR CONTRIBUTE TO THE DISCHARGE INTO THE MUNICIPAL SEPARATE STORM SEWER POLLUTANTS THAT COULD CAUSE THE COUNTY OF EL PASO TO BE IN VIOLATION OF ITS COLORADO DISCHARGE PERMIT SYSTEM MUNICIPAL STORMWATER DISCHARGE PERMIT.
 - THE OWNER, SITE DEVELOPER, CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK, SEDIMENT, AND SAND THAT MAY ACCUMULATE IN THE STORM SEWER OR OTHER DRAINAGE CONVEYANCE SYSTEM AND STORMWATER APPURTENANCES AS A RESULT OF SITE DEVELOPMENT.
 - NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE FLOW LINE OF THE CURB AND GUTTER, INCLUDING THE TEMPORARY OR PERMANENT RAMMING WITH MATERIALS FOR VEHICLE ACCESS.
 - INDIVIDUALS SHALL COMPLY WITH THE "COLORADO WATER QUALITY CONTROL ACT" (TITLE 25, ARTICLE 8, CRS), AND THE "CLEAN WATER ACT" (33 USC 1344), REGULATIONS PROMULGATED, CERTIFICATIONS OR PERMITS ISSUED, IN ADDITION TO THE REQUIREMENTS INCLUDED IN THE MANUAL. IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND WATER QUALITY CONTROL LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL OR STATE AGENCIES, THE MORE RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.
 - THE QUANTITY OF MATERIALS STORED ON THE PROJECT SITE SHALL BE LIMITED, AS MUCH AS PRACTICAL, TO THAT QUANTITY REQUIRED TO PERFORM WORK IN AN ORDERLY SEQUENCE. ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER, IN THEIR ORIGINAL CONTAINERS, WITH ORIGINAL MANUFACTURER'S LABELS. MATERIALS SHALL NOT BE STORED IN A LOCATION WHERE THEY MAY BE CARRIED BY STORMWATER RUNOFF INTO A STATE WATER AT ANY TIME.
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EROSION PROTECTION & REVEGETATION REQUIREMENTS
PER U.S.D.A. SOIL CONSERVATION SERVICE GUIDELINES:

1. PRACTICE NO. & NAME		342 - CRITICAL AREA TREATMENT
RANGE SITE		SANDY Foothills
2. PLANNED SEEDING PREP:		
A. METHOD		SEEDING OPERATION:
B. DATES OCT. 15-MAY 31		DRILL
C. CLEAN TILLED XX		INTERSEED
D. FIRM SEEDBED XX		BROADCAST
E. STUBBLE COVER		B. DRILL SPACING 6-12"
F. INTERSEED		C. TYPE GRASS W/AGITATOR
G. OTHER		D. DATE OCT. 15 - MAY 31
H. WEED CONTROL: N/A		D. PLANTING DEPTH 1/4-1/2"
FERTILIZER:		
POUNDS ACTUAL PER ACRE N2		40
P2O5		40
K		N/A
MULCH:		
KIND		LONG - STEM NATIVE HAY
AMOUNT		4,000
HOW APPLIED		N/A
HOW ANCHORED		CRIMPED
ANCHORAGE DEPTH		4"
SEED:		
VARIETY		SPECIES
GOSHEM		RAIRIE SANDREED
VAUGHN		SIDEDATS GRAMMA
LDVINGTON		BLUE GRAMMA
BLACKWELL		SWITCH GRASS
PASTURA		LITTLE BLUESTEM
(2) PLS SEEDING RATE PER SPECIES/ACRE		(4) TOTAL PLS LBS/ACRE
IN MIXTURE		
15		0.98
25		2.25
15		0.45
20		0.90
25		1.75

REV.	DESCRIPTION	DATE
1	ADDRESS AGENCY COMMENTS	08/17/20



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

PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF CATAMOUNT ENGINEERING.
DAVID L. MIJARES, COLORADO PROFESSIONAL ENGINEER
10/19/20
DATE

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

RIVERBEND CROSSING
FILING NO. 1
GRADING & EROSION
CONTROL PLAN

NOTES:
1. EXISTING VEGETATION ON THIS SITE
PRIMARYLY CONSIST OF GRASSES AND
WEEDS.

DESIGNED BY:	DLM	DRAWN BY:	MGP
SCALE:	1" = 60'	DATE:	03/30/21
JOB NUMBER	17-114	SHEET	24 OF 27

SC-1



Silt Fence (SF)

Urban Drainage and Flood Control District November 2010
Urban Storm Drainage Criteria Manual Volume 3

MM-1

Concrete Washout Area (CWA)

Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3

SM-6



Stabilized Staging Area (SSA)

Urban Drainage and Flood Control District November 2010
Urban Storm Drainage Criteria Manual Volume 3

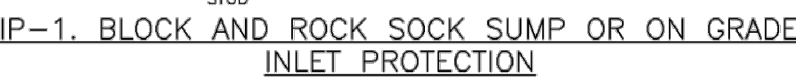
MM-2



Stockpile Management (SM)

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Urban Storm Drainage Criteria Manual Volume 3

Inlet Protection (IP)



IP-2. CURB ROCK SOCKS UPSTREAM OF
INLET PROTECTION



Inlet Protection (IP)

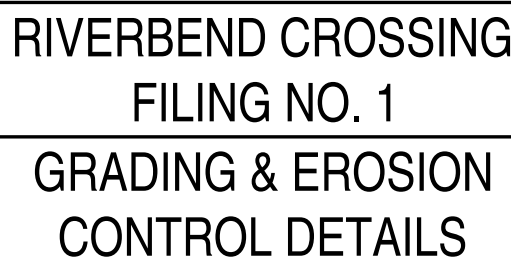
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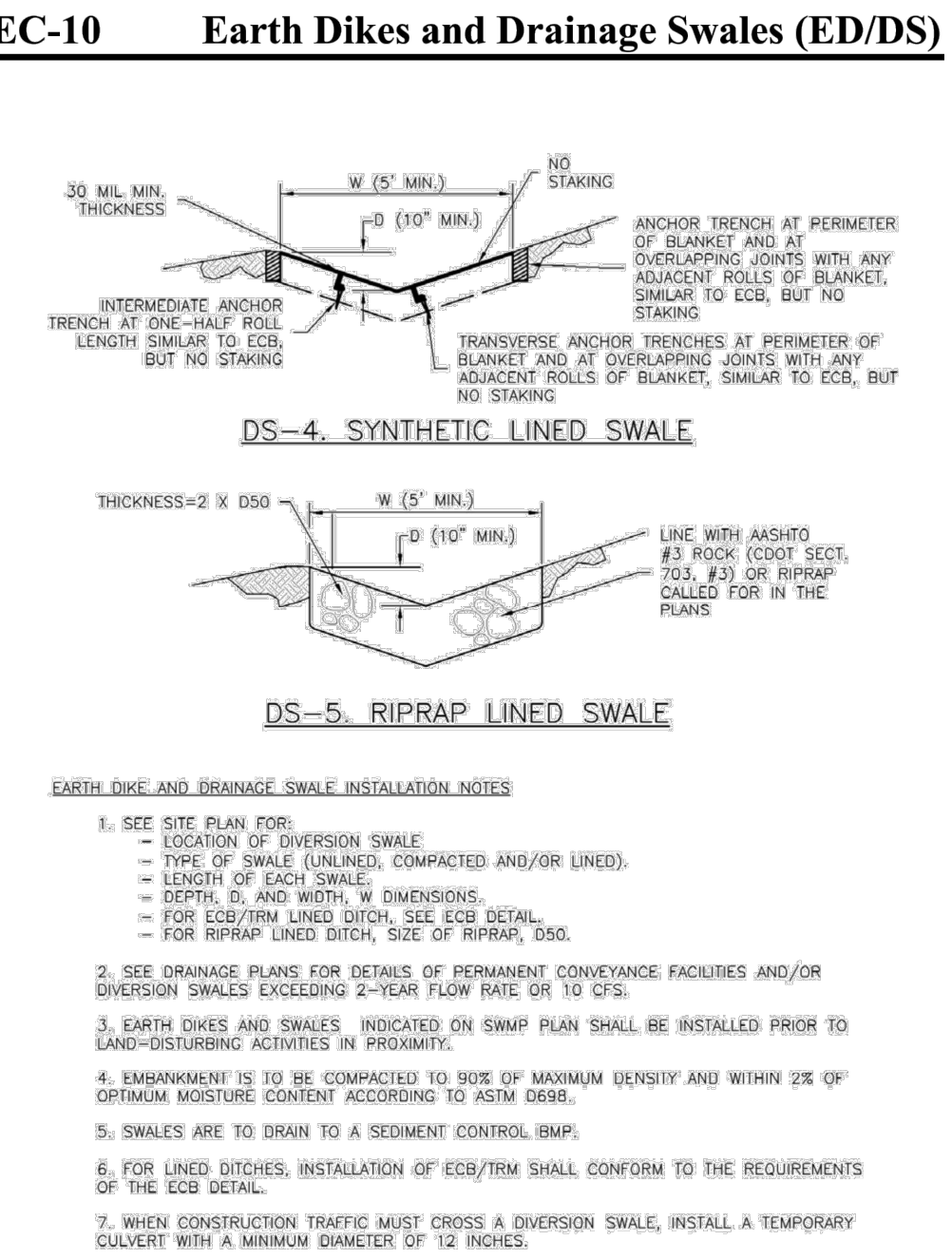
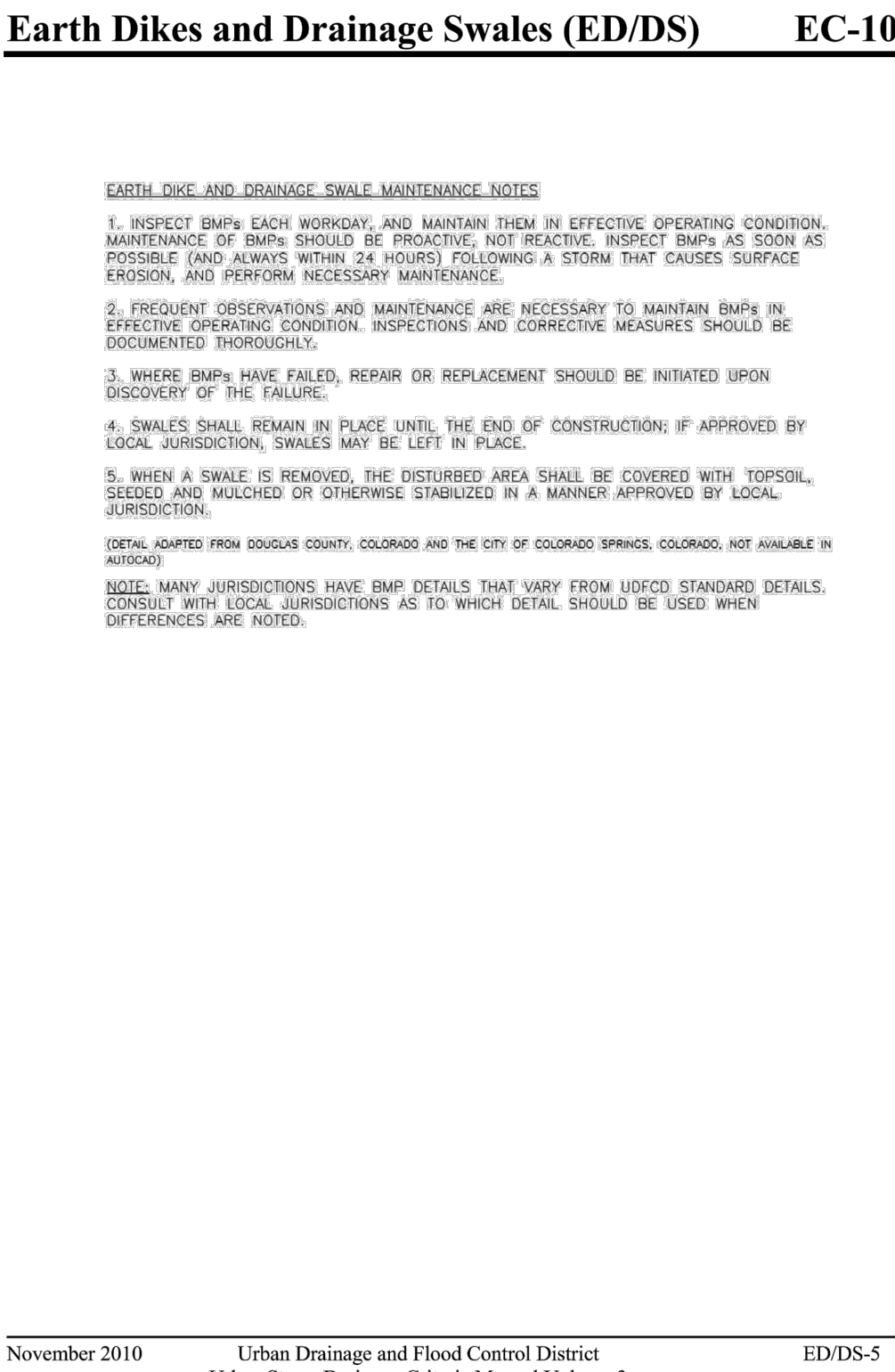
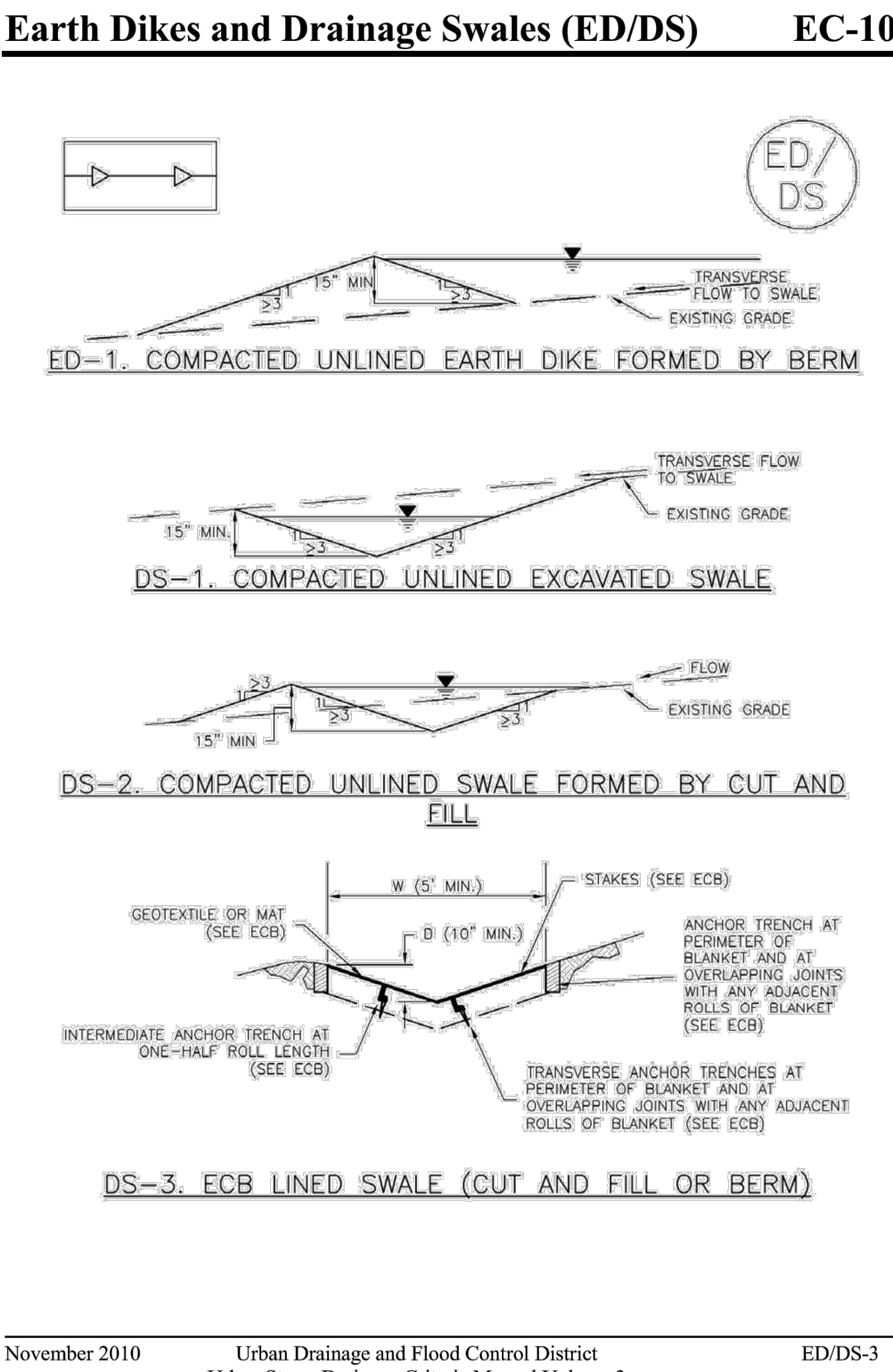
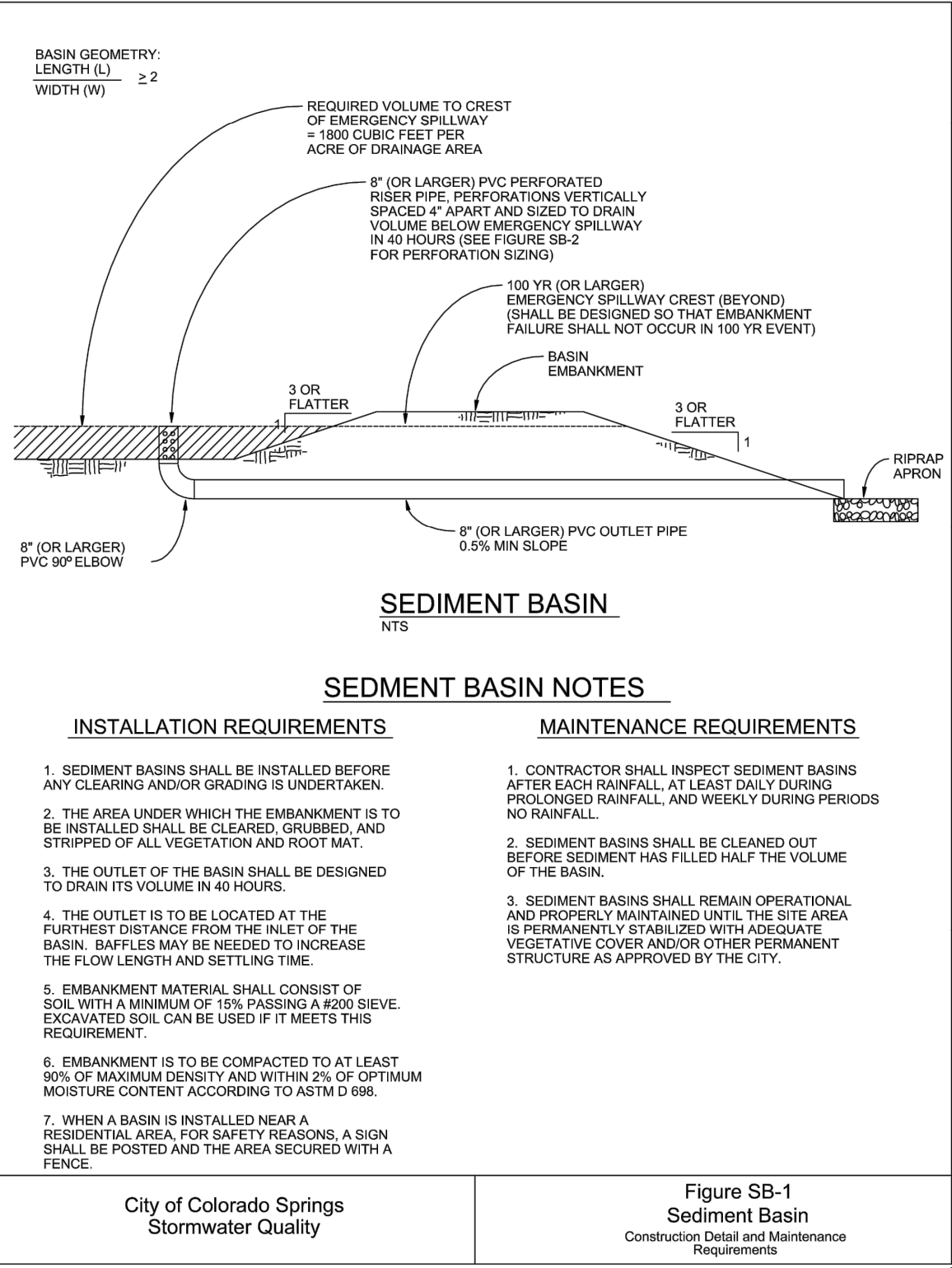
300 JERICHO TURNPIKE
SUITE 120W #204
SYOSSET, NY 11791

10/19/20

DATE 10/19/20



DESIGNED BY: MGP	DRAWN BY: MGP
SCALE: NTS	DATE: 03/30/21
JOB NUMBER	SHEET
17-114	25 OF 27



Required Area per Row (in²)

Depth at Outlet (ft)	Depth at Outlet (ft)									
	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5
2	15.04	7.71	5.10	3.76	2.85	2.41	2.02	1.73	1.51	1.33
1	7.52	3.86	2.55	1.88	1.43	1.21	1.01	0.87	0.76	0.66
0.6	4.51	2.31	1.53	1.13	0.89	0.72	0.61	0.52	0.45	0.39
0.4	3.01	1.54	1.02	0.75	0.60	0.48	0.40	0.35	0.30	0.26
0.2	1.50	0.77	0.51	0.38	0.30	0.24	0.20	0.17	0.15	0.13
0.1	0.75	0.39	0.26	0.19	0.15	0.12	0.10	0.09	0.08	0.07
0.08	0.45	0.23	0.15	0.11	0.09	0.07	0.06	0.05	0.04	0.03
0.04	0.30	0.15	0.10	0.08	0.06	0.05	0.04	0.03	0.02	0.02
0.02	0.15	0.08	0.05	0.04	0.03	0.02	0.02	0.02	0.01	0.01
0.01	0.08	0.04	0.03	0.02	0.01	0.01	0.01	0.01	0.01	0.01

TABLE SB-1

Circular Perforation Sizing

Hole Diameter (in)	Hole Diameter (in)	Area per Row (in ²)		
		n=1	n=2	n=3
1/4	0.250	0.05	0.10	0.15
5/16	0.313	0.09	0.18	0.23
3/8	0.375	0.11	0.22	0.33
7/16	0.438	0.15	0.30	0.45
1/2	0.500	0.20	0.39	0.59
9/16	0.563	0.25	0.50	0.75
5/8	0.625	0.31	0.61	0.92
11/16	0.688	0.37	0.74	1.11
3/4	0.750	0.44	0.88	1.33
7/8	0.875	0.60	1.20	1.80
1	1.000	0.79	1.57	2.36
1 1/8	1.125	0.99	1.99	2.98
1 1/4	1.250	1.23	2.45	3.68
1 3/8	1.375	1.48	2.97	4.45
1 1/2	1.500	1.77	3.53	5.30
1 5/8	1.625	2.07	4.15	6.22
1 3/4	1.750	2.41	4.81	7.22
1 7/8	1.875	2.78	5.52	8.28
2	2.000	3.14	6.28	9.42
n = Number of courses of perforations				
Minimum steel plate thickness		1/4"	5/16"	3/8"

TABLE SB-2

City of Colorado Springs
Stormwater Quality

Figure SB-2
Outlet Sizing
Application Techniques and Maintenance
Requirements

Provide details of temporary sediment basin, including riser pipe perforation sizing, number of rows, required volume, and tributary area to the sediment basin.

REV.	DESCRIPTION	DATE
1	ADDRESS AGENCY COMMENTS	08/17/20



Know what's below.
Call 72 hours before you dig.
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www.call811.com

PREPARED FOR:
AVATAR EQUITIES, LLC

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

PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF CATAMOUNT ENGINEERING.

DAVID L. MIJARES, COLORADO PROFESSIONAL ENGINEER
40510

10/19/20
DATE

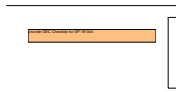


RIVERBEND CROSSING
FILING NO. 1
GRADING & EROSION
CONTROL DETAILS

DESIGNED BY:	MGP	DRAWN BY:	MGP
SCALE:	NTS	DATE:	03/30/21
JOB NUMBER	17-114	SHEET	27 OF 27

CDSF1844_V6 updated.pdf Markup Summary

CFurchak (6)

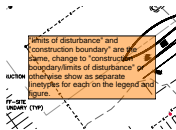


Subject: Engineer
Page Label: [1] 17-114-CDs-01-Cover-_Cover
Author: CFurchak
Date: 5/17/2021 2:48:23 PM
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Color: ■
Layer:
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provide GEC Checklist for SF-18-044

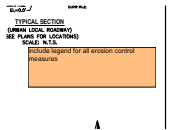


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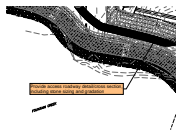
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Page Label: [23] 17-114-CDs-23-GEC-G-EC
Author: CFurchak
Date: 5/17/2021 2:49:59 PM
Status:
Color: ■
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"limits of disturbance" and "construction boundary" are the same, change to "construction boundary/limits of disturbance" or otherwise show as separate linetypes for each on the legend and figure.



Subject: Engineer
Page Label: [23] 17-114-CDs-23-GEC-G-EC
Author: CFurchak
Date: 5/17/2021 2:50:09 PM
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Color: ■
Layer:
Space:

include legend for all erosion control measures



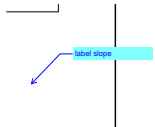
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Page Label: [24] 17-114-CDs-24-GEC-G-EC
Author: CFurchak
Date: 5/17/2021 2:50:31 PM
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Color: ■
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Space:

Provide access roadway detail/cross section, including stone sizing and gradation



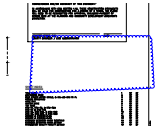
Subject: Engineer
Page Label: [27] 17-114-CDs-27-GEC-Details - G-EC
Author: CFurchak
Date: 5/17/2021 2:51:01 PM
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Space:

Provide details of temporary sediment basin, including riser pipe perforation sizing, number of rows, required volume, and tributary area to the sediment basin.



Subject: Callout
Page Label: [1] 17-114-CDs-01-Cover-_Cover
Author: dsdlaforce
Date: 5/17/2021 2:30:32 PM
Status:
Color: ■
Layer:
Space:

label slope



Subject: Cloud
Page Label: [1] 17-114-CDs-01-Cover-_Cover
Author: dsdlaforce
Date: 5/17/2021 2:30:32 PM
Status:
Color: ■
Layer:
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Subject: Image
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Author: dsdlaforce
Date: 5/17/2021 2:30:32 PM
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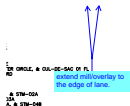
Subject: Callout
Page Label: [1] 17-114-CDs-01-Cover-_Cover
Author: dsdlaforce
Date: 5/17/2021 2:30:32 PM
Status:
Color: ■
Layer:
Space:

Update Southmoor Drive per the preliminary plan.
Snippet below



Subject: Callout
Page Label: [1] 17-114-CDs-01-Cover-_Cover
Author: dsdlaforce
Date: 5/17/2021 2:30:32 PM
Status:
Color: ■
Layer:
Space:

extend mill/overlay to the edge of lane.



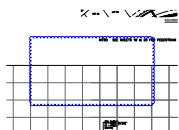
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Page Label: [1] 17-114-CDs-01-Cover-_Cover
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Date: 5/17/2021 2:30:32 PM
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Space:

extend mill/overlay to the edge of lane.

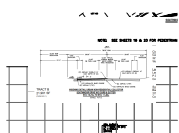


Subject: Callout
Page Label: [2] 17-114-CDs-02-SI - St H-Southmoor-SI - H
Author: dsdlaforce
Date: 5/17/2021 2:30:55 PM
Status:
Color: ■
Layer:
Space:

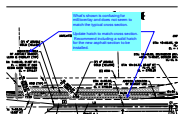
Update Southmoor Drive per the preliminary plan.
Snippet below



Subject: Cloud
Page Label: [2] 17-114-CDs-02-SI - St H-Southmoor-SI - H
Author: dsdlaforce
Date: 5/17/2021 2:30:55 PM
Status:
Color: ■
Layer:
Space:



Subject: Image
Page Label: [2] 17-114-CDs-02-SI - St H-Southmoor-SI - H
Author: dsdlaforce
Date: 5/17/2021 2:30:55 PM
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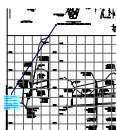
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Author: dsdlaforce
Date: 5/17/2021 2:31:09 PM
Status:
Color: ■
Layer:
Space:

What's shown is confusing for mill/overlay and
does not seem to match the typical cross section.

Update hatch to match cross section.
Recommend including a solid hatch for the new
asphalt section to be installed.

OF TOE WALL
EL = 5676.17
DCM VOL 2,
FIGURE 9-30)

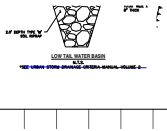
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Page Label: [8] 17-114-CDs-08-Stm - Stm1 - Stm2 -
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Author: dsdlaforce
Date: 5/17/2021 2:31:34 PM
Status:
Color: ■
Layer:
Space:



Subject: Callout
Page Label: [8] 17-114-CDs-08-Stm - Stm1 - Stm2 -
Stm2A-Stm
Author: dsdlaforce
Date: 5/17/2021 2:31:34 PM
Status:
Color: ■
Layer:
Space:

Revise. Include in the plans as construction
details.

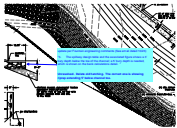
Unresolved. Update reference since detail has
been provided in sheet 19



Subject: Line
Page Label: [8] 17-114-CDs-08-Stm - Stm1 - Stm2 - Stm2A-Stm
Author: dsdlaforce
Date: 5/17/2021 2:31:34 PM
Status:
Color: ■
Layer:
Space:

= 1/2 DIA.
RAP BASIN
THICK]
= DCM VOL 2,
URE 9-37)

Subject: Line
Page Label: [8] 17-114-CDs-08-Stm - Stm1 - Stm2 - Stm2A-Stm
Author: dsdlaforce
Date: 5/17/2021 2:31:34 PM
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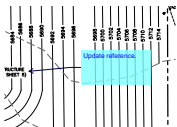


Subject: Callout
Page Label: [14] 17-114-CDs-14-Pond Detail Sheet-Details - SWQF
Author: dsdlaforce
Date: 5/17/2021 2:32:02 PM
Status:
Color: ■
Layer:
Space:

update per Fountain engineering comments (See email dated 10/23)

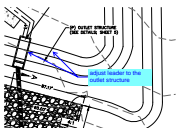
"3. The spillway design table and the associated figure shows a 3' bury depth below the toe of the channel; a 5' bury depth is needed, which is shown on the bank calculations detail. "

Unresolved. Delete old hatching. The correct one is showing riprap extending 5' below channel toe.



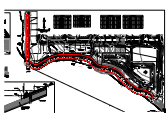
Subject: Callout
Page Label: [14] 17-114-CDs-14-Pond Detail Sheet-Details - SWQF
Author: dsdlaforce
Date: 5/17/2021 2:32:02 PM
Status:
Color: ■
Layer:
Space:

Update reference.



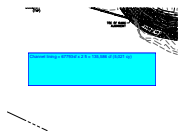
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Page Label: [14] 17-114-CDs-14-Pond Detail Sheet-Details - SWQF
Author: dsdlaforce
Date: 5/17/2021 2:32:11 PM
Status:
Color: ■
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Space:

adjust leader to the outlet structure



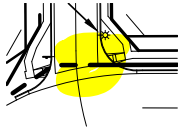
Subject: Area Measurement
Page Label: [18] 17-114-CDs-18-Fountain Creek Channel Imp-Fountain Creek Channel Improvements
Author: dsdlaforce
Date: 5/17/2021 2:32:57 PM
Status:
Color: ■
Layer:
Space:

67,793 sf



Subject: Text Box
Page Label: [18] 17-114-CDs-18-Fountain Creek Channel
Imp-Fountain Creek Channel Improvements
Author: dsdlaforce
Date: 5/17/2021 2:32:57 PM
Status:
Color: ■
Layer:
Space:

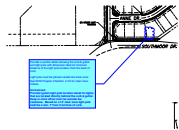
Channel lining = $67793\text{sf} \times 2\text{ ft} = 135,586\text{ cf}$ (5,021 cy)



Subject: Highlight
Page Label: [22] 17-114-CDs-22 Lighting Plan-Lighting Plan
Author: dsdlaforce
Date: 5/17/2021 2:33:42 PM
Status:
Color: ■
Layer:
Space:



Subject: Highlight
Page Label: [22] 17-114-CDs-22 Lighting Plan-Lighting Plan
Author: dsdlaforce
Date: 5/17/2021 2:33:42 PM
Status:
Color: ■
Layer:
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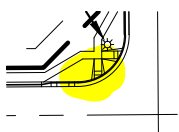


Subject: Cloud+
Page Label: [22] 17-114-CDs-22 Lighting Plan-Lighting Plan
Author: dsdlaforce
Date: 5/17/2021 2:33:42 PM
Status:
Color: ■
Layer:
Space:

Provide a section detail showing the curb & gutter and light pole with dimension label for minimum distance of the light pole location from the back of curb.

Light pole must be placed outside the clear zone. See ECM Chapter 2 Section 2.3.5 for clear zone criteria.

Unresolved.
Provide typical light pole location detail for lights that are located directly behind the curb & gutter. Keep in mind offset must be outside the clearzone. Based on a 12' clear zone light pole shall be a min. 7' from front face of curb.



Subject: Highlight
Page Label: [22] 17-114-CDs-22 Lighting Plan-Lighting Plan
Author: dsdlaforce
Date: 5/17/2021 2:33:42 PM
Status:
Color: ■
Layer:
Space:



Subject: Text Box
Page Label: [23] 17-114-CDs-23-GEC-G-EC
Author: dsdlaforce
Date: 5/17/2021 2:34:07 PM
Status:
Color: ■
Layer:
Space:

Show the street improvements for Filing 1. C&G/SW