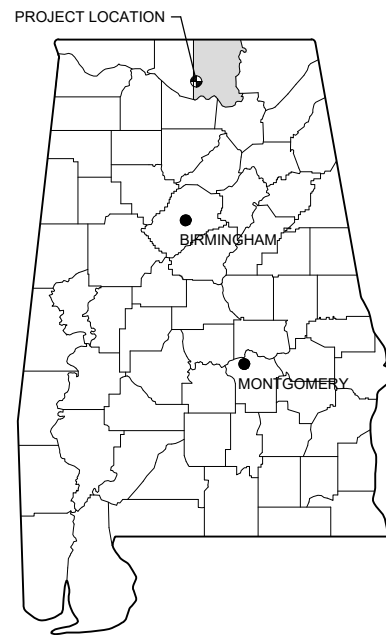


WESTERN INTERCEPTOR FROM MH-97 TO MH-127

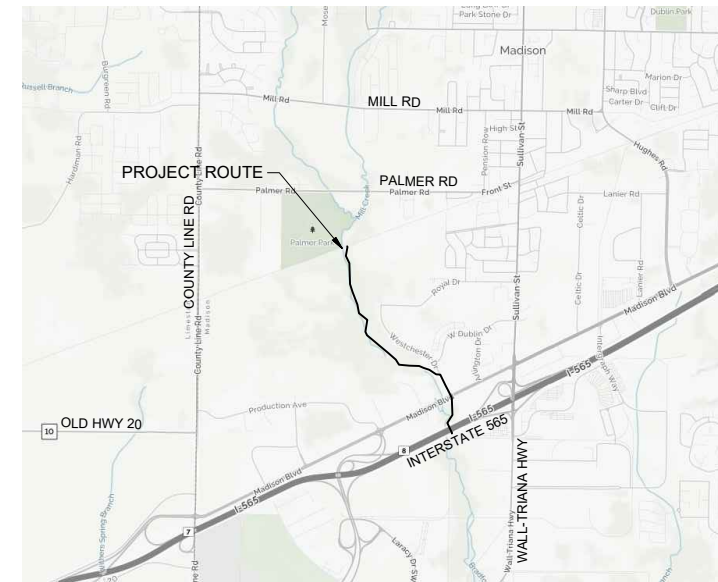
MADISON UTILITIES



LOCATION MAP



MAY 2020

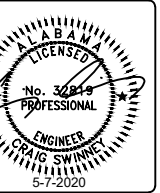


VICINITY MAP

WASTEWATER COLLECTION/WATER DISTRIBUTION SYSTEM
REQUIRED SIGNATURES FOR CONSTRUCTION PLANS:

	SUBMITTED FOR APPROVAL:	MADISON UTILITIES:
	 ENGINEER	 MADISON UTILITIES ENGINEER
	N/A	 GENERAL MANAGER
	DEVELOPER	

"CONSTRUCTION SPECIFICATIONS FOR WATER AND SANITARY SEWER" LATEST EDITION AS ADOPTED BY MADISON UTILITIES (MU), IS HEREBY MADE A PART OF THESE PLANS. CONTRACTOR SHALL CONTACT MU TO SCHEDULE A PRE-CONSTRUCTION MEETING PRIOR TO THE START OF ANY WATER OR SEWER CONSTRUCTION.



NO	DATE	DESCRIPTION	FOR REVIEW AND COMMENT	AS-BID	CONSTRUCTION REVISIONS	AS-BUILT
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

MADISON UTILITIES
MADISON, AL
WESTERN INTERCEPTOR
FROM MH-97 TO MH-127

COVER SHEET,
LOCATION MAP, &
VICINITY MAP

BOX IS 2 IN WIDE
AT FULL SCALE

JOB NO: MU-1930

DATE: MAY 2020

DESIGNED BY: CDS

DRAWN BY: JFL

DWG: 00-C-01

SHEET NUMBER 1

ABBREVIATIONS

@	AT
AFF	ABOVE FLOOR FINISH
AL, ALUM	ALUMINUM
APPROX	APPROXIMATE
ASPH	ASPHALT
ASSY	ASSEMBLY
BLDG	BUILDING
BLK	BLOCK
BM	BENCHMARK
BOT, BTM	BOTTOM
CCP	CONCRETE CULVERT PIPE
CI	CAST IRON
CIP	CAST IN PLACE
CJ	CONSTRUCTION JOINT
CL	CENTER LINE
CL	CLASS
CMU	CONCRETE MASONRY UNIT
CONC	CONCRETE
CONN	CONNECTION
CONT	CONTINUOUS
CP	CONTROL POINT
DIA	DIAMETER
DI	DUCTILE IRON
EA	EACH
EF	EACH FACE
EFF	EFFLUENT
ELEC	ELECTRICAL
EL	ELEVATION
EQ	EQUAL
EW	EACH WAY
EX	EXISTING
EXP	EXPANSION
FFE	FINISH FLOOR ELEVATION
FH	FIRE HYDRANT
FIN GR	FINISH GRADE
FL	FLOW LINE
FLG	FLANGED
FT	FOOT
FTG	FOOTING
GL	GAS LINE
GR	GRADE
GRVL	GRAVEL
GV	GATE VALVE
H,HGT,HT	HEIGHT
HORIZ	HORIZONTAL
HWY	HIGHWAY
ID	INSIDE DIAMETER
IN	INCHES
INF	INFLUENT
INV	INVERT
JT	JOINT
LEN	LENGTH
LG	LONG
LOC	LOCATION
LT	LEFT
MANUF	MANUFACTURER
MAX	MAXIMUM
MGD	MILLION GALLONS PER DAY
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT
N	NORTH
NIC	NOT IN CONTRACT
NO,#	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
PE	PLAIN END
PI	POINT OF INTERSECTION
PL	PLATE
PLS	PLACES
PO	PUSH ON
PP	POWER POLE
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
R,RAD	RADIUS
RCP	REINFORCED CONC PIPE
RED	REDUCER
REINF	REINFORCING
REQD	REQUIRED
RFgs	RESTRAINING FOLLOWER GLANDS
RJ	RESTRAINED JOINT
ROW, RW	RIGHT-OF-WAY
RS	RESILIENT SEAT
RT	RIGHT
S	SOUTH
SCH	SCHEDULE
SECT	SECTION
SF	SQUARE FEET
SHT	SHEET
SPECS	SPECIFICATIONS
SQ	SQUARE
SS	STAINLESS STEEL
STA	STATION
STD	STANDARD
T&B	TOP AND BOTTOM
TBM	TEMPORARY BENCHMARK
TEMP	TEMPORARY
THK	THICKNESS
TOC	TOP OF CURB
TYP	TYPICAL
V	VALVE, VOLTS
VERT	VERTICAL
W	WEST, WIDTH, WATER
WI	WITH
WO	WITHOUT
WL	WATER LINE
WS	WATERSTOP
WWF	WELDED WIRE FABRIC
WWTP	WASTEWATER TREATMENT PLANT
X	BY

LEGEND

	PROPOSED FACILITIES, LINES, ETC
	EXISTING FACILITIES, LINES, ETC
	SANITARY SEWER
	SEWER FORCE MAIN
	WATER MAIN
	GAS MAIN
	OVERHEAD ELECTRIC
	BURIED ELECTRIC
	BURIED FIBER OPTIC
	BURIED TELEPHONE
	STORM SEWER
	GRAVEL ROAD OR DRIVE
	RIGHT OF WAY
	PERMANENT EASEMENT
	TEMP CONSTRUCTION EASEMENT
	RAILROAD
	BARBED WIRE FENCE
	CHAIN LINK FENCE
	WOOD FENCE
	WATER EDGE
	TREE LINE
	TREE OR SHRUB
	FIRE HYDRANT
	WATER VALVE
	SEWER VALVE
	GAS VALVE
	IRRIGATION CONTROL VALVE
	WATER METER
	SECTION MARK
	SECTION NUMBER SHEET NUMBER
	DETAIL NUMBER SHEET NUMBER
	NORTH ARROW
	AIR RELIEF VALVE
	SEWER MANHOLE
	SEWER CLEANOUT
	CATCH BASIN
	CONCRETE WING WALL
	MAILBOX
	TELEPHONE PEDESTAL
	ELECTRICAL TRANSFORMER
	SIGN
	BENCH MARK
	BORE
	UTILITY POLE
	LIGHT POLE
	GUIDE WIRE ANCHOR
	ELECTRICAL BOX
	DEMOLISH OR REMOVE
	EXISTING ROADS & SIDEWALKS
	PROPOSED ROADS & SIDEWALKS
	PROPOSED PUG MIX
	PROFILE LABELS

GENERAL NOTES

- SAFETY SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR SAFETY, MEANS, OR METHODS OF THE CONTRACTOR.
- THE LOCATIONS OF ALL UNDERGROUND UTILITIES ARE ASSUMED BASED ON AVAILABLE MAPS, GIS DATA, ETC. SOME UTILITIES WERE NOT LOCATED BY ALABAMA ONE CALL (811) PRIOR TO, OR FOLLOWING THE SURVEY. ALL UNDERGROUND UTILITIES MAY NOT BE SHOWN ON THE PLANS. FOR THIS REASON, THE CONTRACTOR SHOULD ANTICIPATE ADDITIONAL TIME WILL BE REQUIRED ON THE PROJECT TO:
 - HAVE UTILITIES LOCATED BY ALABAMA ONE-CALL IN THE AREAS AHEAD OF THE WORK.
 - REVIEW ANY POTENTIAL CONFLICTS AND/OR REQUIRED CHANGES IN THE PIPELINE ROUTE WITH THE OWNER AND/OR ENGINEER.
 - SPOT DIG AND/OR RESEARCH WITH THE APPROPRIATE UTILITY COMPANY TO DETERMINE DEPTHS OF CUT, PIPE MATERIALS, ETC.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL APPROPRIATE AGENCIES BEFORE WORK COMMENCES TO VERIFY THE TYPE, LOCATION, PROTECTION REQUIREMENTS, DEPTH OF ALL EXISTING UTILITIES, DRAINAGE FACILITIES, AND OTHER OBSTRUCTIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH REPAIRING AND/OR REPLACING ANY SUCH ITEMS DAMAGED DURING CONSTRUCTION.
- UTILITIES ON PLANS AND PROFILES ARE SHOWN IN APPROXIMATE LOCATIONS AND MAY BE AT ASSUMED ELEVATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING LOCATIONS OF EXISTING UTILITIES, OBSTRUCTIONS, AND DRAINAGE STRUCTURES. ALL EXISTING LINES SHALL REMAIN ACTIVE THROUGHOUT CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF EXISTING UTILITIES DURING CONSTRUCTION AND SATISFACTORY REPAIR OR REPLACEMENT OF DAMAGED FACILITIES.
- APPROXIMATE LOCATIONS OF OVERHEAD POWER LINES MAY OR MAY NOT BE SHOWN ON PLANS. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR VERIFYING ALL LOCATIONS IN THE FIELD AND PLAN WORK IN THESE AREAS ACCORDINGLY.
- CONTRACTOR SHALL VERIFY LOCATIONS AND ELEVATIONS OF ALL BENCHMARK ELEVATIONS & COORDINATES WITH SURVEYOR PRIOR TO BEGINNING THE WORK. CONTRACTOR IS RESPONSIBLE FOR ALL EASEMENT OR ROW SURVEYS REQUIRED TO COMPLETE THE WORK. ROW, PROPERTY, AND/OR EASEMENT BOUNDARIES SHOWN ON PLANS ARE APPROXIMATE AND FOR GENERAL REFERENCE ONLY.
- CONTRACTOR SHALL BE RESPONSIBLE FOR SITE DRAINAGE, STORMWATER PERMITS, AND COMPLIANCE WITH ALL GOVERNMENTAL STORMWATER REGULATIONS.
- CONTRACTOR SHALL MAINTAIN TRAFFIC FLOW TO RESIDENCES AND BUSINESSES WITH MINIMUM DISRUPTION OF ACCESS.
- ALL STREETS AND DRIVEWAYS SHALL BE OPEN CUT UNLESS NOTED OTHERWISE.
- ALL ASPHALT AND CONCRETE PAVING REMOVED AND REPLACED SHALL BE NEAT SAW CUT.
- ALL EXCAVATION BACKFILL IN NON-TRAFFIC OR NON-PAVED AREAS SHALL BE COMPACTED TO MIN 95% STANDARD PROCTOR DENSITY TO PREVENT SETTLEMENT.
- ROCK SHALL BE UNDERCUT A MINIMUM OF 4" AND PIPE BEDDED IN STONE.
- ALL TRENCHES TO BE COMPACTED PER DETAIL 4 ON DRAWING 95-C-01 TO PREVENT SETTLEMENT.
- ALL CONNECTIONS TO EXISTING LINES TO BE COORDINATED WITH THE UTILITY TO MINIMIZE INTERRUPTION OF WATER AND/OR SEWER SERVICE.
- ALL LANDSCAPED AREAS, FENCES, ETC. AFFECTED BY CONSTRUCTION SHALL BE REPLACED AND RESTORED IN-KIND (UNLESS SPECIFICALLY NOTED ON THE PLANS). ALL DISTURBED GRASSED AREAS SHALL BE RESODDED OR SEEDED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER DISPOSAL OF ANY EXCESS MATERIALS RESULTING FROM THE WORK.
- NO EXCAVATIONS SHALL BE LEFT UN-ATTENDED BY THE CONTRACTOR'S PERSONNEL UNLESS BARRICADED TO PREVENT INJURY.
- ANY PILING, SHORING, ETC. (SIZE, DEPTHS, LOCATIONS, TYPES, ETC.) SHALL BE DESIGNED, FURNISHED, AND MAINTAINED BY THE CONTRACTOR.
- UNLESS THE CONTRACTOR HAS MADE OTHER ARRANGEMENTS ON HIS OWN FOR TEMPORARY FACILITIES, ALL PIPE, FITTINGS, BORE PITS, MARKERS, ETC. SHALL BE INSTALLED ON STATE OR COUNTY ROW, PERMANENT OR CONSTRUCTION EASEMENTS.
- CLEARING LIMITS NOT SHOWN, CONTRACTOR SHALL VERIFY ALL REQUIREMENTS IN FIELD.
- SURVEY PROVIDED BY ALLEN LAND SURVEYING, LLC. ALL LOCATIONS TO BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.

DUCTILE IRON NOTES

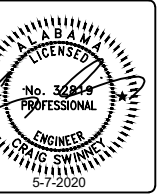
- ALL DUCTILE IRON PIPE SHALL BE PROTECTO 401 OR TNEC SERIES 431 PL LINED.
- PRESSURE CLASSES SHALL BE AS FOLLOWS:
 - 42" DIP CLASS 200 OR CLASS 250 AS NOTED IN PROFILES
 - 24" DIP CLASS 200
 - 10" DIP CLASS 350
 - 8" DIP CLASS 350
 - 6" DIP CLASS 350
- ALL DUCTILE IRON PIPE NOT LOCATED INSIDE OF AN ENCASEMENT PIPE OR TUNNEL SHALL HAVE A V-BIO POLYETHYLENE PIPE ENCASEMENT PER THE SPECIFICATIONS.
- EXISTING DUCTILE IRON PIPE THAT IS TO BE REMOVED SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE RECYCLED PROPERLY.
- AIR TESTING IS NOT REQUIRED ON 42" SEWER, BUT IT IS REQUIRED ON SMALLER DIAMETER SEWERS.
- ALL SEWERS SHALL HAVE A TELEVISION INSPECTION.

SEWER NOTES

- ALL EXISTING MANHOLES THAT ARE TIED INTO AND LEFT IN SERVICE ARE TO BE REGROUTED AND FORMED TO THE PROPOSED INVERTS. CONNECTIONS TO EXISTING MANHOLES SHALL BE GROUTED, SEALED, AND CONCRETE ENCASED FOR A WATERTIGHT SEAL.
- MANHOLE OPENINGS AT ALL EXISTING LINES INDICATED ON THE PLANS TO BE ABANDONED SHALL BE PLUGGED AND SEALED WATERTIGHT AFTER NEW LINES ARE COMPLETE, TESTED, AND PLACED IN SERVICE.
- FRAMES AND COVERS REMOVED FROM EXISTING OR DEMOLISHED MANHOLES SHALL BE RETURNED TO THE OWNER.
- PROPOSED MANHOLES SHALL BE 1' - 2' ABOVE GRADE UNLESS NOTED OTHERWISE ON PROFILES, OR PLACED AT GRADE IN PAVED AREAS.
- WHERE BYPASS PUMPING IS REQUIRED DURING THE PROJECT, PUMPING SHALL BE HELD TO A MINIMUM. AROUND-THE-CLOCK BYPASS PUMPING IS NOT ALLOWED. AT THE END OF EACH DAYLIGHT CONSTRUCTION PERIOD, EXISTING SEWAGE WILL BE TEMPORARILY ROUTED TO NEW OR EXISTING PIPES WITH FITTINGS, PIPE, HOSE, OR OTHER APPURTENANCES AS REQUIRED. THE COST OF THIS WORK SHALL BE INCLUDED IN PIPE INSTALLATION.
- SEWER LINES SHALL HAVE 5' MINIMUM SEPARATION FROM WATER LINES.
- WHEN CROSSING UNDER EXISTING UTILITIES OR STORM DRAINS ADEQUATELY PROTECT AND SUPPORT THE UTILITY OR STORM DRAIN AND USE STONE BACKFILL BENEATH IT TO PREVENT SETTLEMENT.
- ALL MANHOLES SHALL HAVE XYPEX C 1000 RED ADMIXTURE AND 12" CCI WRAPIDSEAL WITH CANUSA G PRIMER AROUND ALL JOINTS.
- ALL MANHOLES SHALL HAVE JOHN BOUCHARD (NEENAH FOUNDRY) CAMLIFT SWING AWAY LIDS (MODEL NUMBER R-1642-CL) WITH THE MADISON UTILITIES LOGO.
- ALL MANHOLES SHALL BE WATER TIGHT WITH STRAPS PER MU DETAIL 8.200.
- MANHOLE MINIMUM THICKNESS SHALL BE AS FOLLOWS:
 - 4' Ø = 5"
 - 5' Ø = 6"
 - 6' Ø = 7"
 - 7' Ø = 8"
 - TRANSITION PIECE = 8"
- DETAILED SUBMITTALS OF EACH MANHOLE ARE REQUIRED.
- ABANDONED LINES AND DEMOLISHED MANHOLES SHALL BE PLUGGED ON EACH END.
- IF THE CONTRACTOR DOES NOT HAVE OTHER ARRANGEMENTS FOR SPOILS, THEY MAY USE MADISON UTILITIES' SPOILS LOCATION ON OLD JIM WILLIAMS ROAD SW. LATITUDE 34°39'18"N, LONGITUDE 86°44'27"W. ALL SPOILS MUST BE PLACED AND GRADED AS REQUIRED BY MU.

SHEET INDEX

SHT #	DWG #	DRAWING TITLE
1	00-C-01	COVER SHEET, LOCATION MAP, & VICINITY MAP
2	00-C-02	ABBREVIATIONS, LEGEND, NOTES, & SHEET INDEX
3	05-C-01	GRAVITY SEWER LINE A OVERALL PLAN
4	05-C-02	GRAVITY SEWER LINES B - G OVERALL PLANS
5	10-C-01	GRAVITY SEWER PLAN & PROFILE STA 0+00 TO STA 3+50
6	10-C-02	GRAVITY SEWER PLAN & PROFILE STA 3+50 TO STA 11+00
7	10-C-03	GRAVITY SEWER PLAN & PROFILE STA 11+00 TO STA 19+00 & LINE G
8	10-C-04	GRAVITY SEWER PLAN & PROFILE STA 19+00 TO STA 27+50
9	10-C-05	GRAVITY SEWER PLAN & PROFILE STA 27+50 TO STA 36+00
10	10-C-06	GRAVITY SEWER PLAN & PROFILE STA 36+00 TO STA 44+50
11	10-C-07	GRAVITY SEWER PLAN & PROFILE STA 44+50 TO STA 53+00
12	10-C-08	GRAVITY SEWER PLAN & PROFILE STA 53+00 TO STA 61+50
13	10-C-09	GRAVITY SEWER PLAN & PROFILE STA 61+50 TO STA 69+50
14	10-C-10	GRAVITY SEWER PLAN & PROFILE STA 69+50 TO STA 78+00
15	10-C-11	GRAVITY SEWER PLAN & PROFILE STA 78+00 TO STA 83+34
16	10-C-21	GRAVITY SEWER LINES B & C PLANS & PROFILES
17	10-C-22	GRAVITY SEWER LINE D PLAN & PROFILE
18	10-C-23	GRAVITY SEWER LINES E & F PLAN & PROFILES
19	10-C-30	COUNTRY INN SEWER LATERAL PLAN & PROFILES
20	10-C-31	LA QUINTA INN SEWER LATERAL PLAN & PROFILE
21	95-C-01	TYPICAL DETAILS
22	95-C-02	TYPICAL DETAILS



NO	DATE	DESCRIPTION	AS-BID	CONSTRUCTION	AS-BUILT

MADISON UTILITIES
 MADISON, AL
WESTERN INTERCEPTOR
FROM MH-97 TO MH-127

ABBREVIATIONS,
LEGEND, NOTES,
& SHEET INDEX

BOX IS 2 IN WIDE
AT FULL SCALE

JOB NO: MU-1930

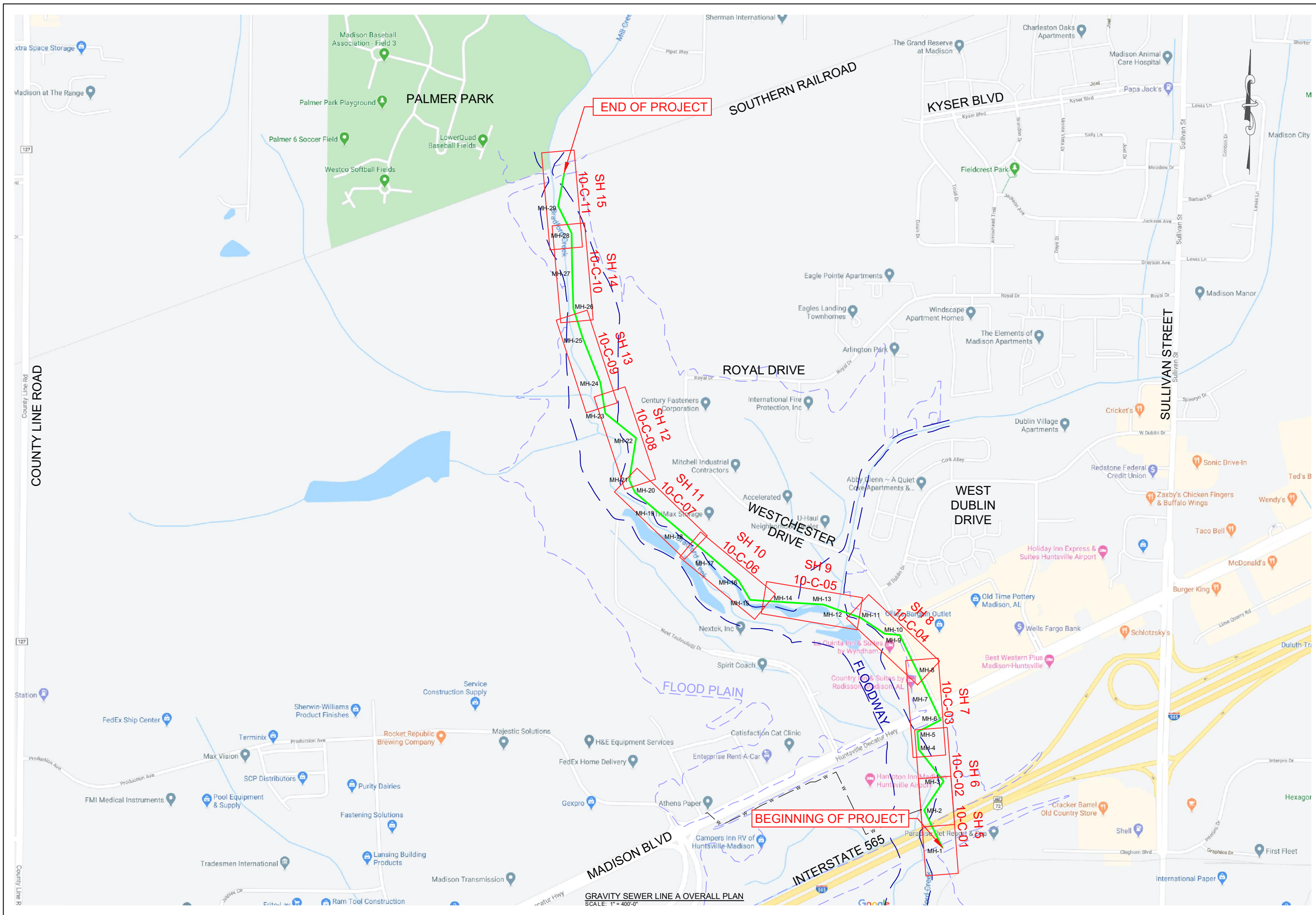
DATE: MAY 2020

DESIGNED BY: CDS

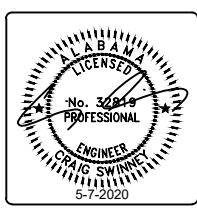
DRAWN BY: JFL

DWG: 00-C-02

SHEET NUMBER **2**



GRAVITY SEWER LINE A OVERALL PLAN
SCALE: 1" = 400'-0"



NO	DATE	DESCRIPTION	FOR REVIEW AND COMMENT	AS-BID	CONSTRUCTION REVISIONS	AS-BUILT
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MADISON UTILITIES
MADISON, AL
WESTERN INTERCEPTOR
FROM MH-97 TO MH-127

GRAVITY SEWER LINE A OVERALL PLAN

BOX IS 2 IN WIDE AT FULL SCALE

JOB NO: MU-1930
DATE: MAY 2020
DESIGNED BY: CDS
DRAWN BY: JFL
DWG: 05-C-01

SHEET NUMBER **3**

NO	DATE	DESCRIPTION	AS-BUILT	CONSTRUCTION	AS-BID	REVISIONS
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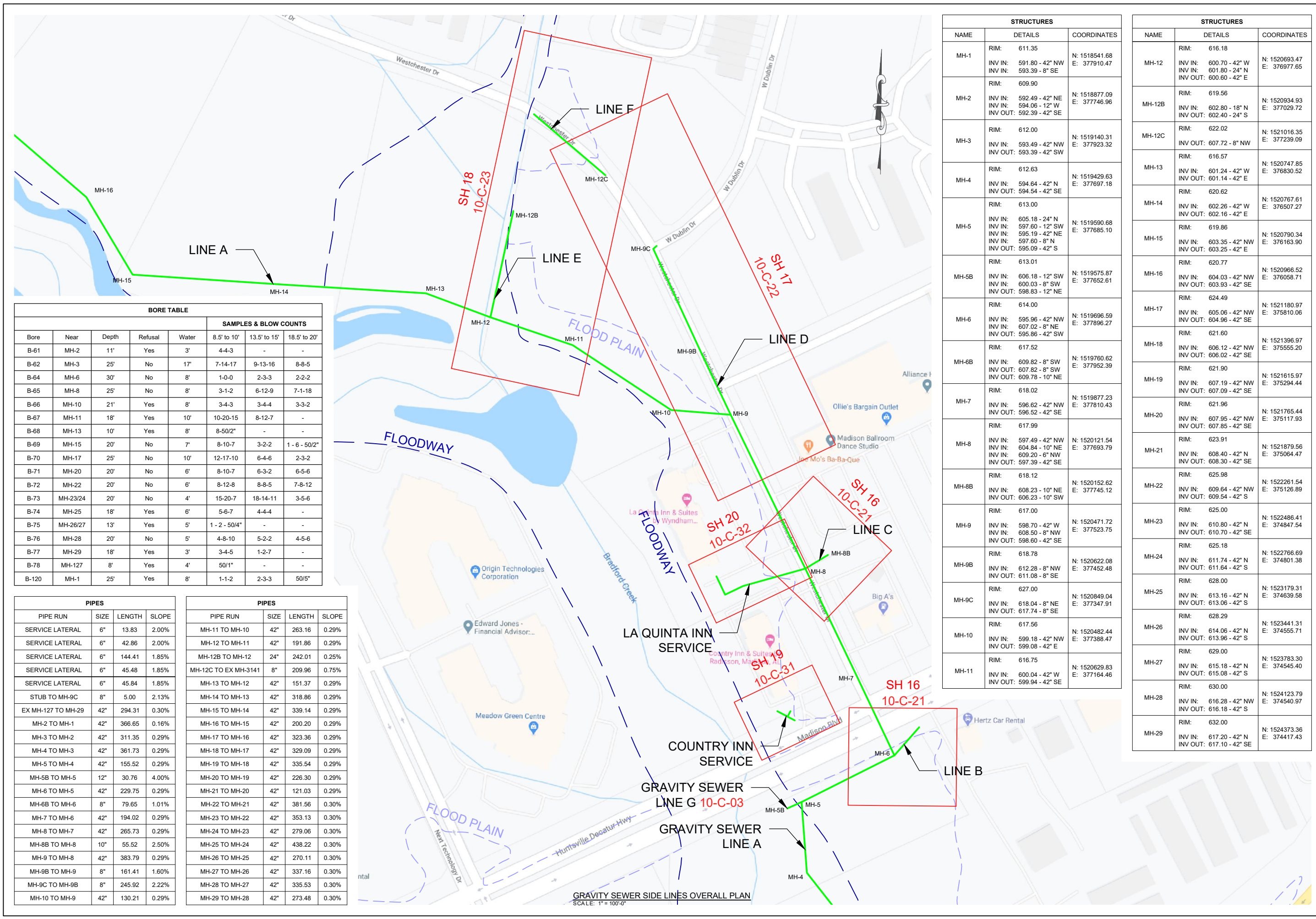
**MADISON UTILITIES
MADISON, AL**

**WESTERN INTERCEPTOR
FROM MH-97 TO MH-127**

GRAVITY SEWER
LINES B - G
OVERALL PLAN

BOX IS 2 IN WIDE
AT FULL SCALE

JOB NO: MU-1930
DATE: MAY 2020
DESIGNED BY: CDS
DRAWN BY: JFL
DWG: 05-C-02
SHEET NUMBER **4**



STRUCTURES		
NAME	DETAILS	COORDINATES
MH-1	RIM: 611.35	N: 1518541.68 E: 377910.47
	INV IN: 591.80 - 42° NW	
	INV IN: 593.39 - 8° SE	
MH-2	RIM: 609.90	N: 1518877.09 E: 377746.96
	INV IN: 592.49 - 42° NW	
	INV IN: 594.06 - 12° W	
MH-3	RIM: 612.00	N: 1519140.31 E: 377923.32
	INV IN: 593.49 - 42° NW	
	INV IN: 593.39 - 42° SW	
MH-4	RIM: 612.63	N: 1519429.63 E: 377697.18
	INV IN: 594.64 - 42° N	
	INV IN: 594.54 - 42° SE	
MH-5	RIM: 613.00	N: 1519590.68 E: 377685.10
	INV IN: 605.18 - 24° N	
	INV IN: 597.60 - 12° SW	
MH-5B	RIM: 613.01	N: 1519575.87 E: 377652.61
	INV IN: 606.18 - 12° SW	
	INV IN: 600.03 - 8° SW	
MH-6	RIM: 614.00	N: 1519686.59 E: 377896.27
	INV IN: 595.96 - 42° NW	
	INV IN: 607.02 - 8° NE	
MH-6B	RIM: 617.52	N: 1519760.62 E: 377952.39
	INV IN: 609.82 - 8° SW	
	INV IN: 607.82 - 8° SW	
MH-7	RIM: 618.02	N: 1519877.23 E: 377810.43
	INV IN: 596.62 - 42° NW	
	INV IN: 596.52 - 42° SE	
MH-8	RIM: 617.99	N: 1520121.54 E: 377693.79
	INV IN: 597.49 - 42° NW	
	INV IN: 604.84 - 10° NE	
MH-8B	RIM: 618.12	N: 1520152.62 E: 377745.12
	INV IN: 608.23 - 10° NE	
	INV IN: 606.23 - 10° SW	
MH-9	RIM: 617.00	N: 1520471.72 E: 377523.75
	INV IN: 598.70 - 42° W	
	INV IN: 608.50 - 8° NW	
MH-9B	RIM: 618.78	N: 1520622.08 E: 377452.48
	INV IN: 612.28 - 8° NW	
	INV IN: 611.08 - 8° SE	
MH-9C	RIM: 627.00	N: 1520849.04 E: 377347.91
	INV IN: 618.04 - 8° NE	
	INV IN: 617.74 - 8° SE	
MH-10	RIM: 617.56	N: 1520482.44 E: 377388.47
	INV IN: 599.18 - 42° NW	
	INV IN: 599.08 - 42° E	
MH-11	RIM: 616.75	N: 1520629.83 E: 377164.46
	INV IN: 600.04 - 42° W	
	INV IN: 599.94 - 42° SE	

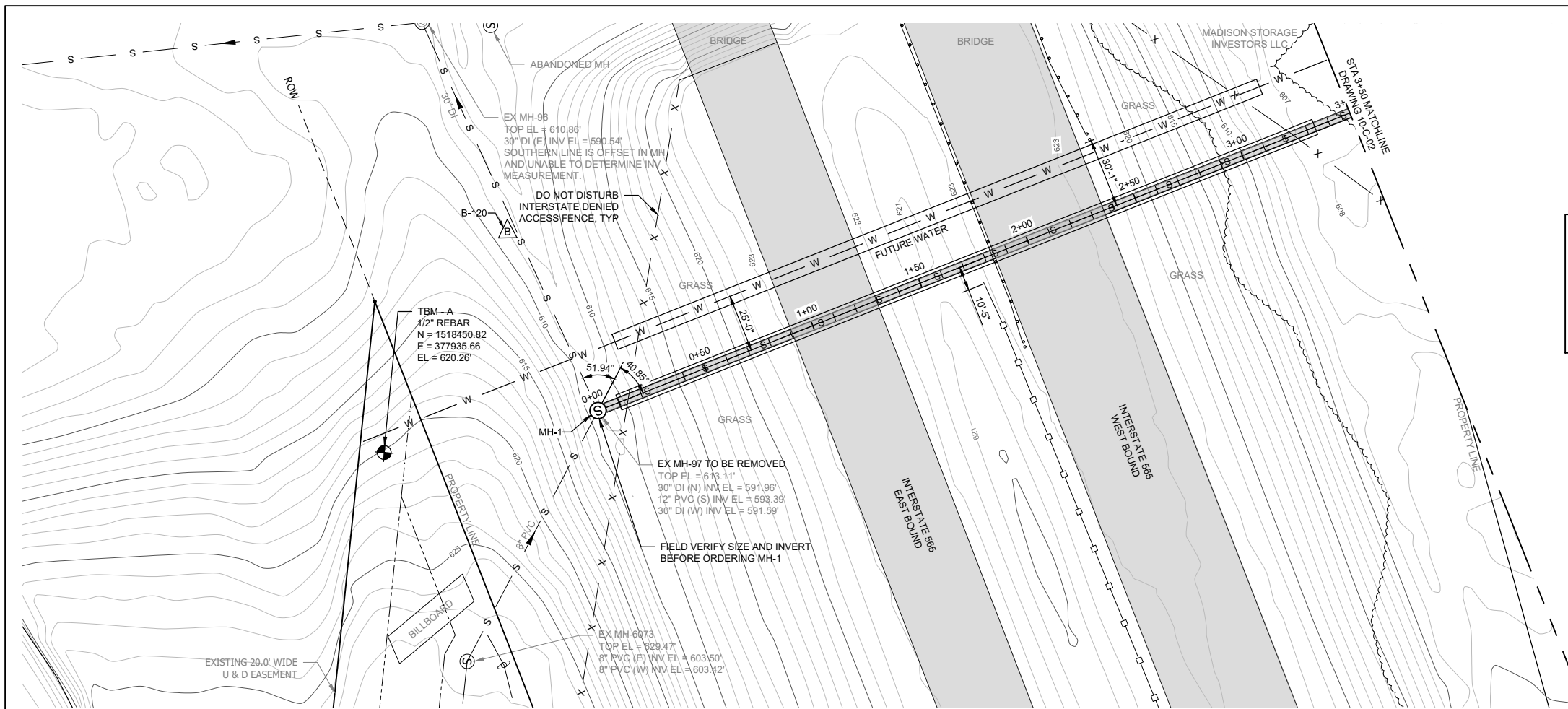
STRUCTURES		
NAME	DETAILS	COORDINATES
MH-12	RIM: 616.18	N: 1520693.47 E: 376977.65
	INV IN: 600.70 - 42° W	
	INV IN: 601.80 - 24° N	
MH-12B	RIM: 619.56	N: 1520934.93 E: 377029.72
	INV IN: 602.80 - 18° N	
	INV IN: 602.40 - 24° S	
MH-12C	RIM: 622.02	N: 1521016.35 E: 377239.09
	INV OUT: 607.72 - 8° NW	
MH-13	RIM: 616.57	N: 1520747.85 E: 376830.52
	INV IN: 601.24 - 42° W	
	INV IN: 601.14 - 42° E	
MH-14	RIM: 620.62	N: 1520767.61 E: 376507.27
	INV IN: 602.26 - 42° W	
	INV IN: 602.16 - 42° E	
MH-15	RIM: 619.86	N: 1520790.34 E: 376163.90
	INV IN: 603.35 - 42° NW	
	INV IN: 603.25 - 42° E	
MH-16	RIM: 620.77	N: 1520966.52 E: 376058.71
	INV IN: 604.03 - 42° NW	
	INV IN: 603.93 - 42° SE	
MH-17	RIM: 624.49	N: 1521180.97 E: 375810.06
	INV IN: 605.06 - 42° NW	
	INV IN: 604.96 - 42° SE	
MH-18	RIM: 621.60	N: 1521396.97 E: 375555.20
	INV IN: 606.12 - 42° NW	
	INV IN: 606.02 - 42° SE	
MH-19	RIM: 621.90	N: 1521615.97 E: 375294.44
	INV IN: 607.19 - 42° NW	
	INV IN: 607.09 - 42° SE	
MH-20	RIM: 621.96	N: 1521765.44 E: 375117.93
	INV IN: 607.95 - 42° NW	
	INV IN: 607.85 - 42° SE	
MH-21	RIM: 623.91	N: 1521879.56 E: 375064.47
	INV IN: 608.40 - 42° N	
	INV IN: 608.30 - 42° SE	
MH-22	RIM: 625.98	N: 1522261.54 E: 375126.89
	INV IN: 609.64 - 42° NW	
	INV IN: 609.54 - 42° S	
MH-23	RIM: 625.18	N: 1522486.41 E: 374847.54
	INV IN: 610.80 - 42° N	
	INV IN: 610.70 - 42° SE	
MH-24	RIM: 625.18	N: 1522766.69 E: 374801.38
	INV IN: 611.74 - 42° N	
	INV IN: 611.64 - 42° S	
MH-25	RIM: 628.00	N: 1523179.31 E: 374639.58
	INV IN: 613.16 - 42° N	
	INV IN: 613.06 - 42° S	
MH-26	RIM: 628.29	N: 1523441.31 E: 374555.71
	INV IN: 614.06 - 42° N	
	INV IN: 613.96 - 42° S	
MH-27	RIM: 629.00	N: 1523783.30 E: 374545.40
	INV IN: 615.18 - 42° N	
	INV IN: 615.08 - 42° S	
MH-28	RIM: 630.00	N: 1524123.79 E: 374540.97
	INV IN: 616.28 - 42° NW	
	INV IN: 616.18 - 42° S	
MH-29	RIM: 632.00	N: 1524373.36 E: 374417.43
	INV IN: 617.20 - 42° N	
	INV IN: 617.10 - 42° SE	

BORE TABLE						SAMPLES & BLOW COUNTS		
Bore	Near	Depth	Refusal	Water		8.5' to 10'	13.5' to 15'	18.5' to 20'
B-61	MH-2	11'	Yes	3'		4-4-3	-	-
B-62	MH-3	25'	No	17'		7-14-17	9-13-16	8-8-5
B-64	MH-6	30'	No	8'		1-0-0	2-3-3	2-2-2
B-65	MH-8	25'	No	8'		3-1-2	6-12-9	7-1-18
B-66	MH-10	21'	Yes	8'		3-4-3	3-4-4	3-3-2
B-67	MH-11	18'	Yes	10'		10-20-15	8-12-7	-
B-68	MH-13	10'	Yes	8'		8-50/2"	-	-
B-69	MH-15	20'	No	7'		8-10-7	3-2-2	1 - 6 - 50/2"
B-70	MH-17	25'	No	10'		12-17-10	6-4-6	2-3-2
B-71	MH-20	20'	No	6'		8-10-7	6-3-2	6-5-6
B-72	MH-22	20'	No	6'		8-12-8	8-8-5	7-8-12
B-73	MH-23/24	20'	No	4'		15-20-7	18-14-11	3-5-6
B-74	MH-25	18'	Yes	6'		5-6-7	4-4-4	-
B-75	MH-26/27	13'	Yes	5'		1 - 2 - 50/4"	-	-
B-76	MH-28	20'	No	5'		4-8-10	5-2-2	4-5-6
B-77	MH-29	18'	Yes	3'		3-4-5	1-2-7	-
B-78	MH-127	8'	Yes	4'		50/1"	-	-
B-120	MH-1	25'	Yes	8'		1-1-2	2-3-3	50/5"

PIPES				
PIPE RUN	SIZE	LENGTH	SLOPE	
SERVICE LATERAL	6"	13.83	2.00%	
SERVICE LATERAL	6"	42.86	2.00%	
SERVICE LATERAL	6"	144.41	1.85%	
SERVICE LATERAL	6"	45.48	1.85%	
SERVICE LATERAL	6"	45.84	1.85%	
STUB TO MH-9C	8"	5.00	2.13%	
EX MH-127 TO MH-29	42"	294.31	0.30%	
MH-2 TO MH-1	42"	366.65	0.16%	
MH-3 TO MH-2	42"	311.35	0.29%	
MH-4 TO MH-3	42"	361.73	0.29%	
MH-5 TO MH-4	42"	155.52	0.29%	
MH-5B TO MH-5	12"	30.76	4.00%	
MH-6 TO MH-5	42"	229.75	0.29%	
MH-6B TO MH-6	8"	79.65	1.01%	
MH-7 TO MH-6	42"	194.02	0.29%	
MH-8 TO MH-7	42"	265.73	0.29%	
MH-8B TO MH-8	10"	55.52	2.50%	
MH-9 TO MH-8	42"	383.79	0.29%	
MH-9B TO MH-9	8"	161.41	1.60%	
MH-9C TO MH-9B	8"	245.92	2.22%	
MH-10 TO MH-9	42"	130.21	0.29%	

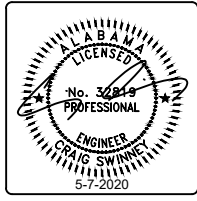
PIPES				
PIPE RUN	SIZE	LENGTH	SLOPE	
MH-11 TO MH-10	42"	263.16	0.29%	
MH-12 TO MH-11	42"	191.86	0.29%	
MH-12B TO MH-12	24"	242.01	0.25%	
MH-12C TO EX MH-3141	8"	209.96	0.75%	
MH-13 TO MH-12	42"	151.37	0.29%	
MH-14 TO MH-13	42"	318.86	0.29%	
MH-15 TO MH-14	42"	339.14	0.29%	
MH-16 TO MH-15	42"	200.20	0.29%	
MH-17 TO MH-16	42"	323.36	0.29%	
MH-18 TO MH-17	42"	329.09	0.29%	
MH-19 TO MH-18	42"	335.54	0.29%	
MH-20 TO MH-19	42"	226.30	0.29%	
MH-21 TO MH-20	42"	121.03	0.29%	
MH-22 TO MH-21	42"	381.56	0.30%	
MH-23 TO MH-22	42"	353.13	0.30%	
MH-24 TO MH-23	42"	279.06	0.30%	
MH-25 TO MH-24	42"	438.22	0.30%	
MH-26 TO MH-25	42"	270.11	0.30%	
MH-27 TO MH-26	42"	337.16	0.30%	
MH-28 TO MH-27	42"	335.53	0.30%	
MH-29 TO MH-28	42"	273.48	0.30%	

GRAVITY SEWER SIDE LINES OVERALL PLAN
SCALE: 1" = 100'-0"

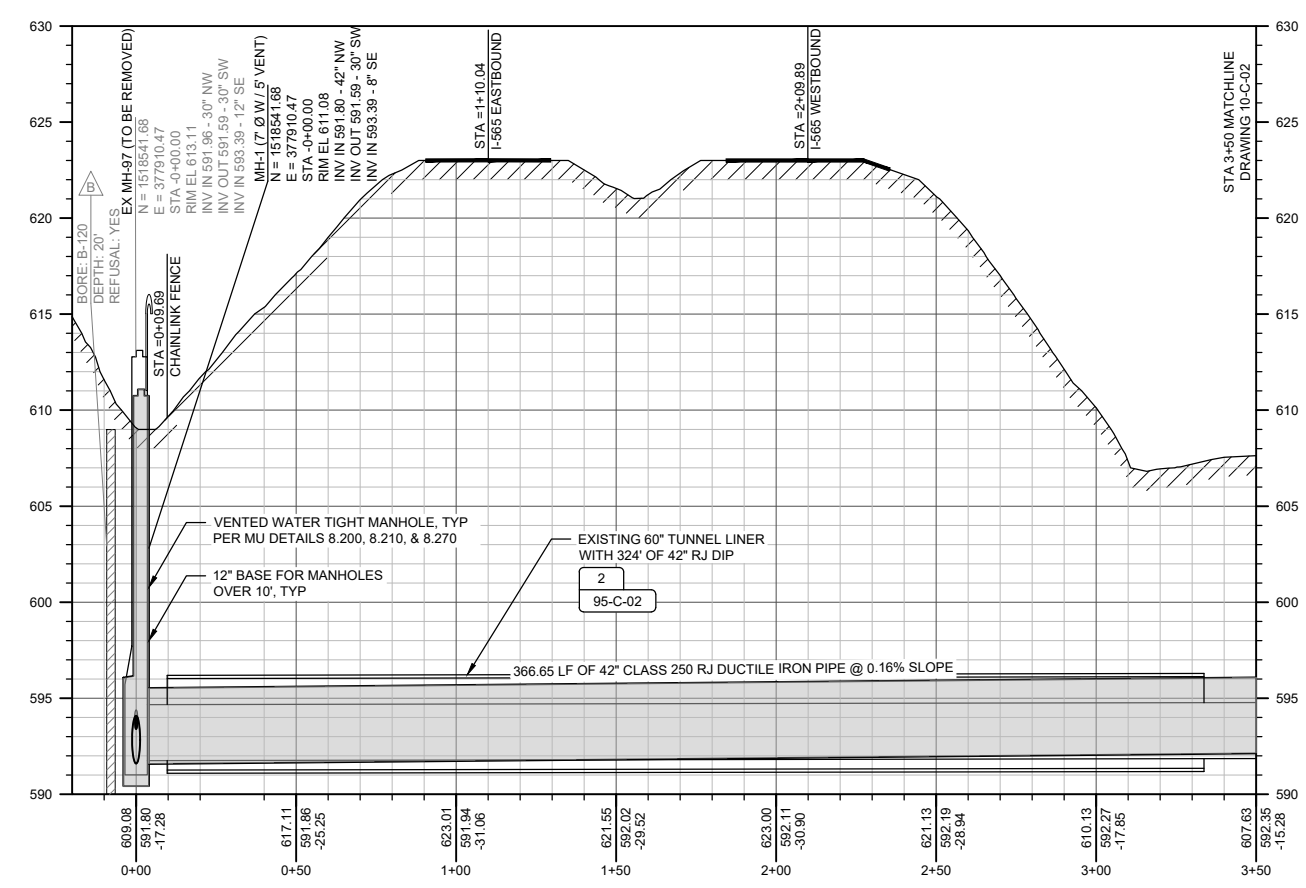


GRAVITY SEWER PLAN VIEW
SCALE: 1" = 30'-0"

- NOTES:
- SEE ALDOT PERMIT IN APPENDIX B REGARDING WORK IN THE STATE ROW FROM STA 0+00 TO STA 3+65. ALDOT DISTRICT PERMIT COORDINATOR, MR. KHALID SHARFI, MUST BE NOTIFIED 24 HOURS BEFORE WORKING IN THE STATE ROW BY CALLING 256-837-0111.
 - CONTRACTOR SHALL UNCOVER AND OPEN END OF TUNNEL FOR INSPECTION BEFORE ORDERING PIPE TO DETERMINE IF DUCTILE IRON OR HDPE SHOULD BE USED.



NO	DATE	DESCRIPTION	FOR REVIEW AND COMMENT	AS-BID	CONSTRUCTION REVISIONS	AS-BUILT
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



GRAVITY SEWER PROFILE VIEW
SCALE: H: 1" = 30'-0" V: 1" = 5'-0"

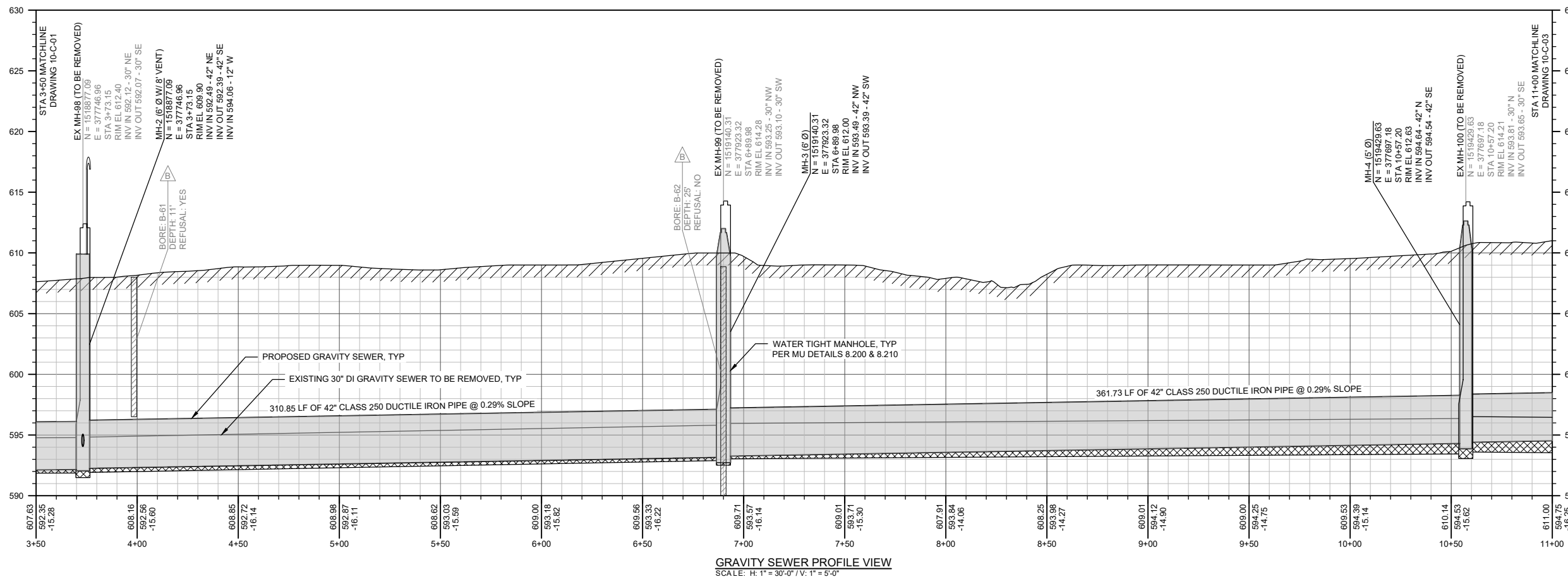
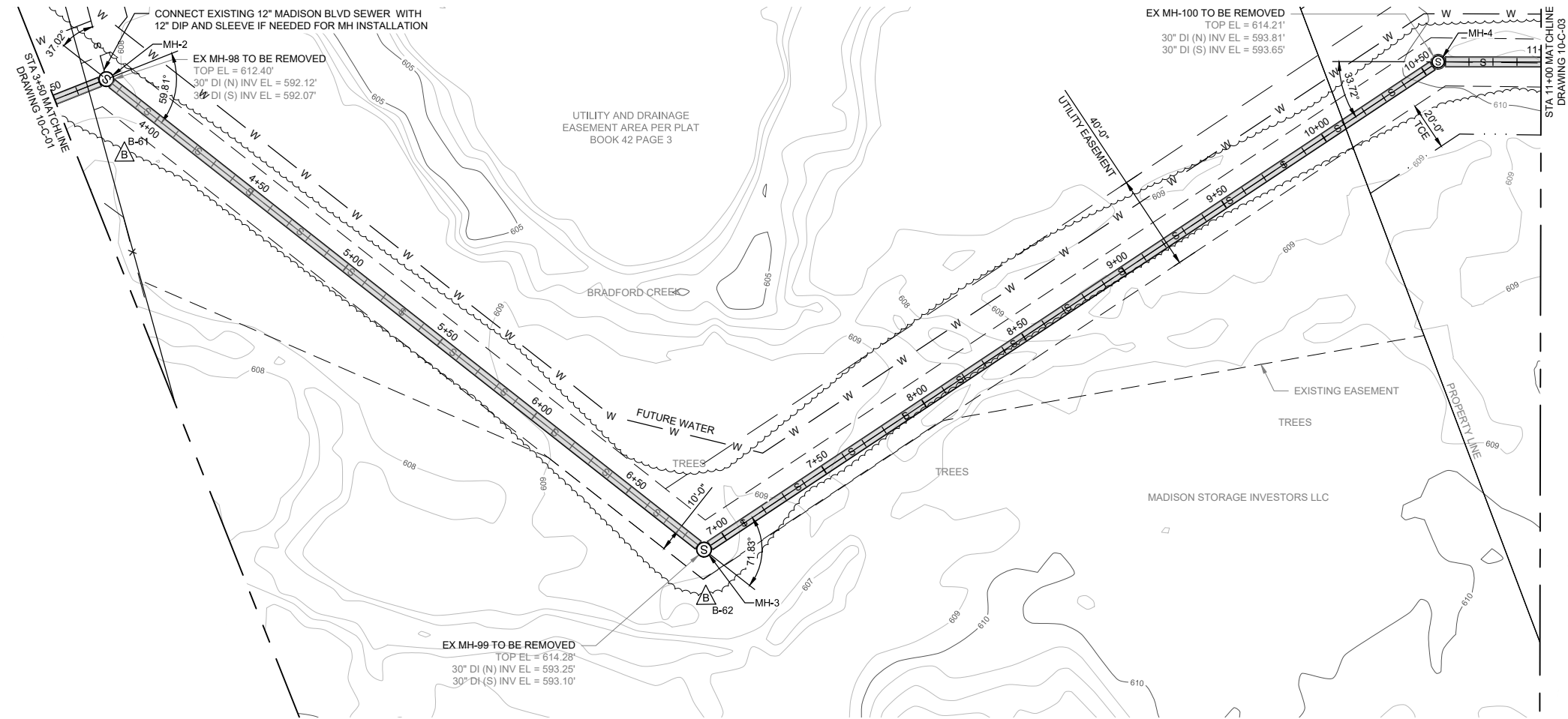
MADISON UTILITIES
MADISON, AL
WESTERN INTERCEPTOR
FROM MH-97 TO MH-127

GRAVITY SEWER
PLAN & PROFILE
FROM STA 0+00
TO STA 3+50

BOX IS 2 IN WIDE
AT FULL SCALE

JOB NO: MU-1930
DATE: MAY 2020
DESIGNED BY: CDS
DRAWN BY: JFL
DWG: 10-C-01
SHEET NUMBER 5

NO	DATE	DESCRIPTION	FOR REVIEW AND COMMENT	AS-BID	CONSTRUCTION REVISIONS	AS-BUILT
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MADISON UTILITIES
MADISON, AL

WESTERN INTERCEPTOR
FROM MH-97 TO MH-127

GRAVITY SEWER
PLAN & PROFILE
FROM STA 3+50
TO STA 11+00

BOX IS 2 IN WIDE
AT FULL SCALE

JOB NO: MU-1930

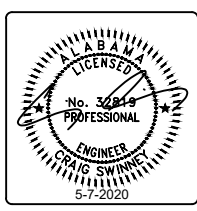
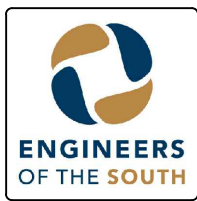
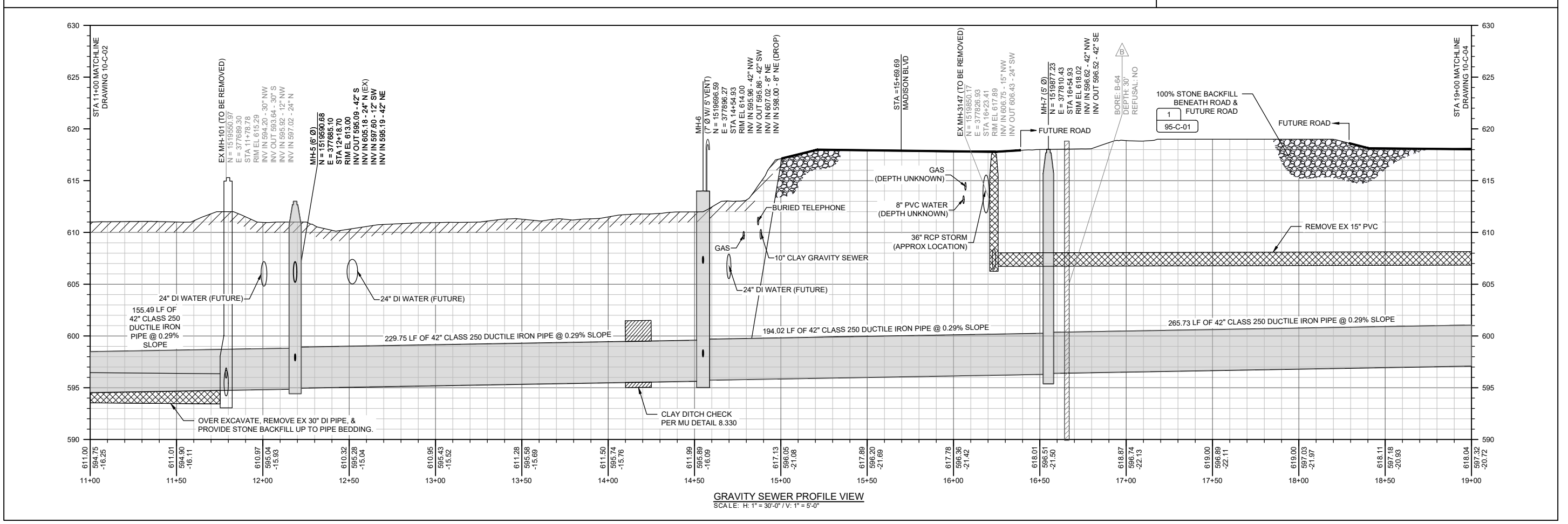
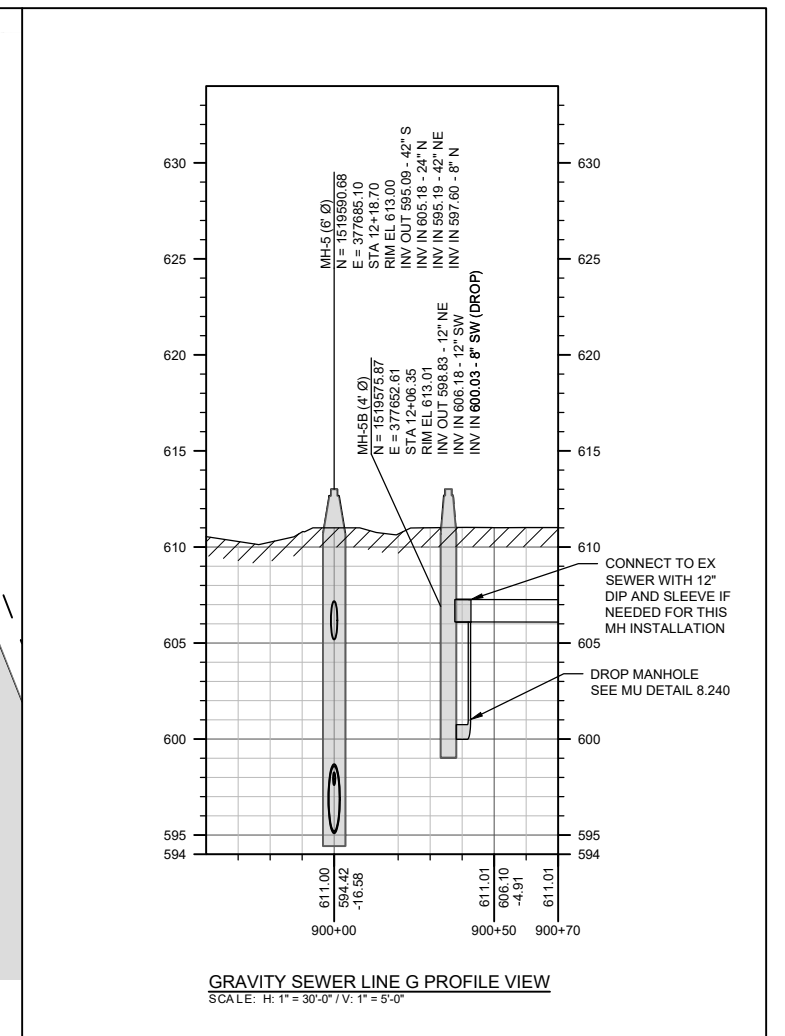
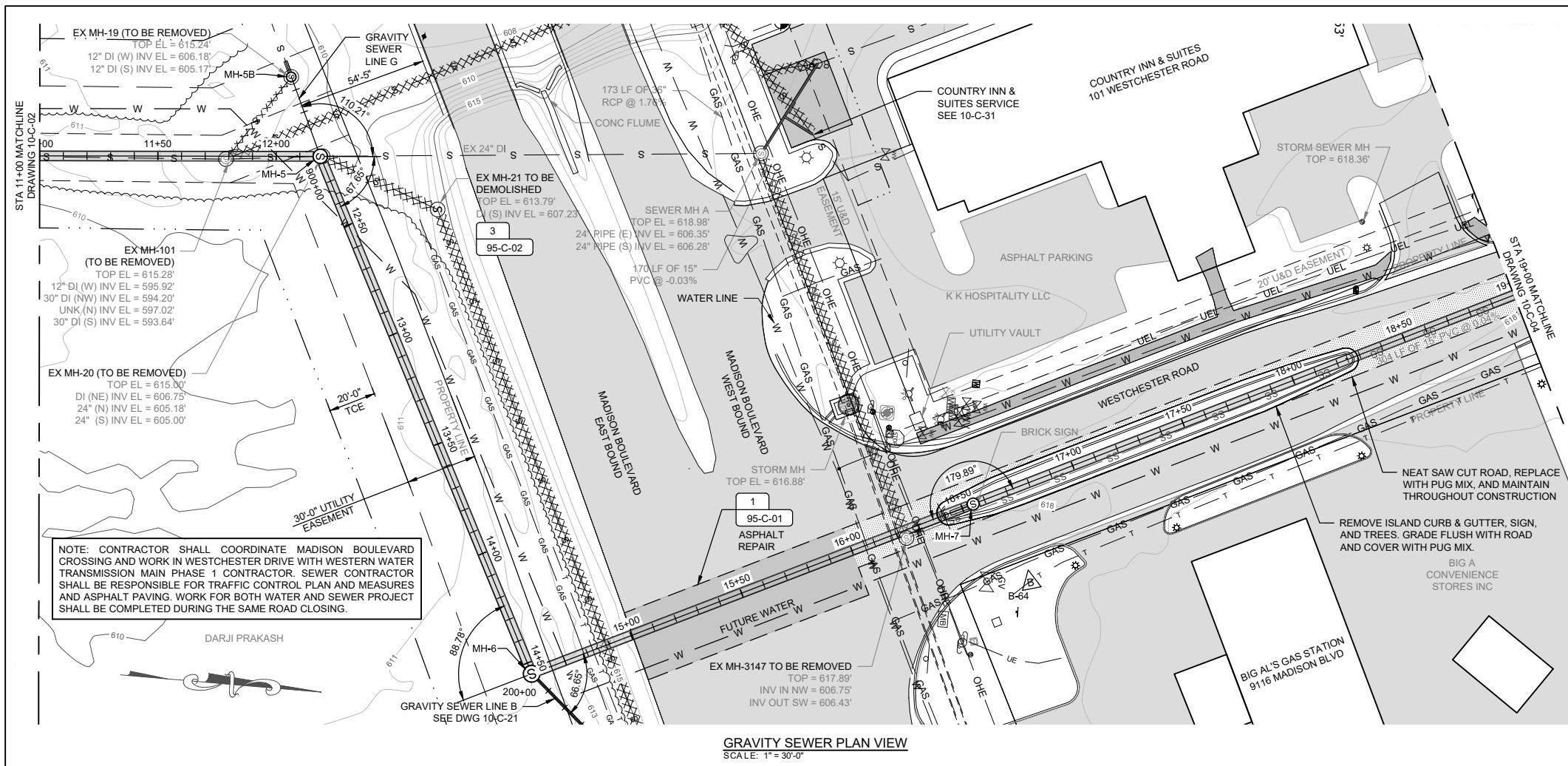
DATE: MAY 2020

DESIGNED BY: CDS

DRAWN BY: JFL

DWG: 10-C-02

SHEET
NUMBER **6**



NO	DATE	DESCRIPTION	FOR REVIEW AND COMMENT	AS-BUILT
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MADISON UTILITIES
MADISON, AL

WESTERN INTERCEPTOR
FROM MH-97 TO MH-127

GRAVITY SEWER
PLAN & PROFILE
FROM STA 11+00 TO
STA 19+00 & LINE G

BOX IS 2 IN WIDE
AT FULL SCALE

JOB NO: MU-1930

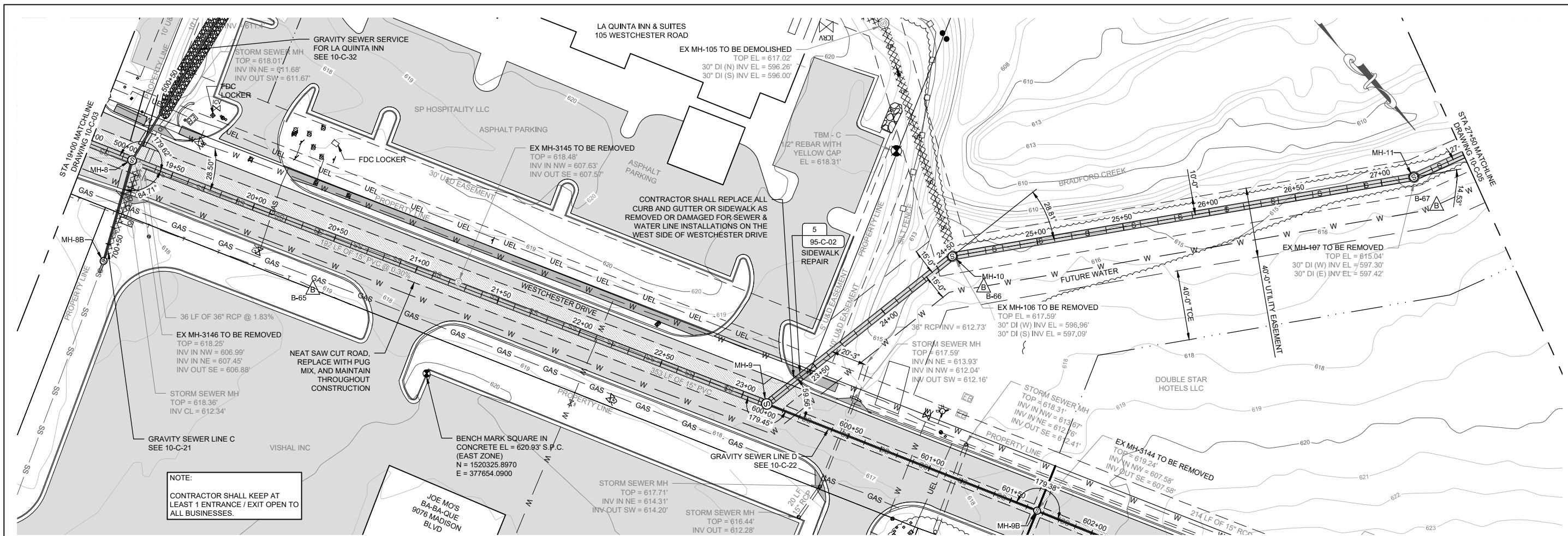
DATE: MAY 2020

DESIGNED BY: CDS

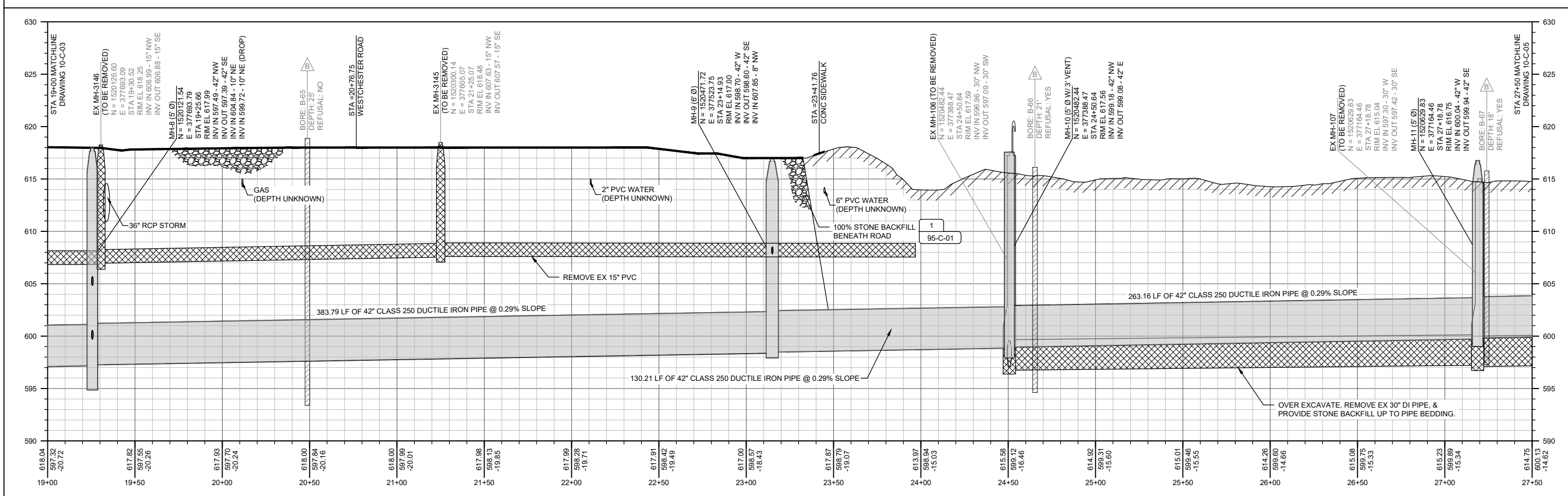
DRAWN BY: JFL

DWG: 10-C-03

SHEET NUMBER **7**



NO	DATE	DESCRIPTION	FOR REVIEW AND COMMENT	CONSTRUCTION REVISIONS	AS-BUILT
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MADISON UTILITIES
MADISON, AL
WESTERN INTERCEPTOR
FROM MH-97 TO MH-127

GRAVITY SEWER
PLAN & PROFILE
FROM STA 19+00
TO STA 27+50

BOX IS 2 IN WIDE
AT FULL SCALE

JOB NO: MU-1930

DATE: MAY 2020

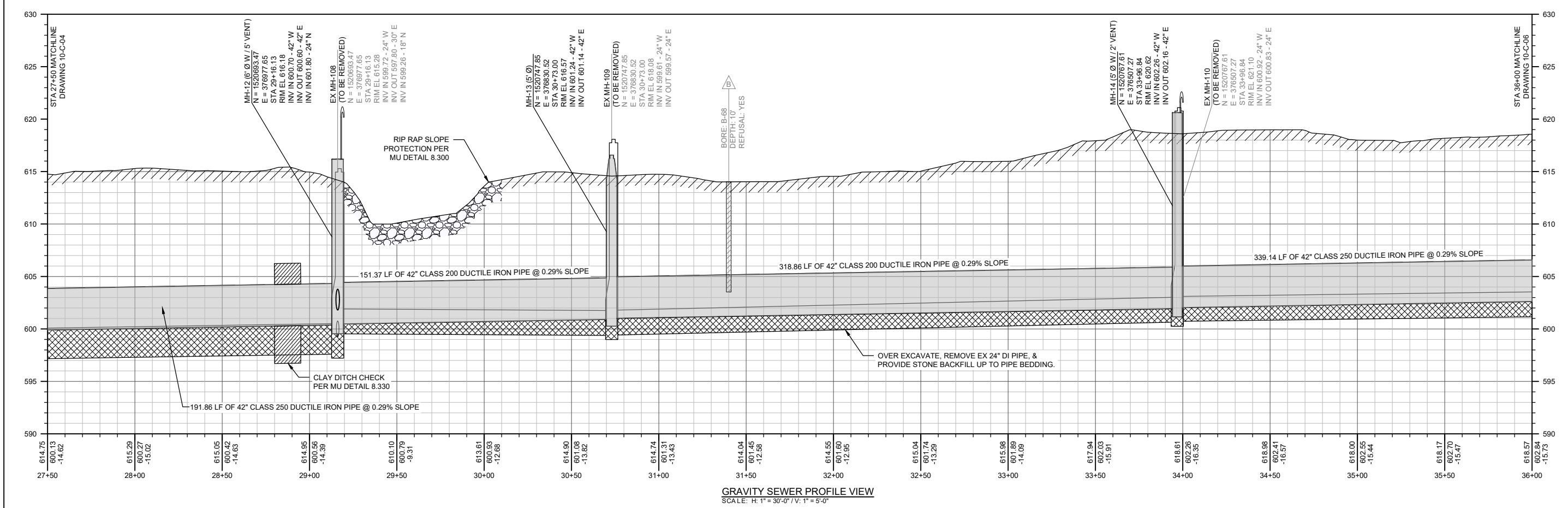
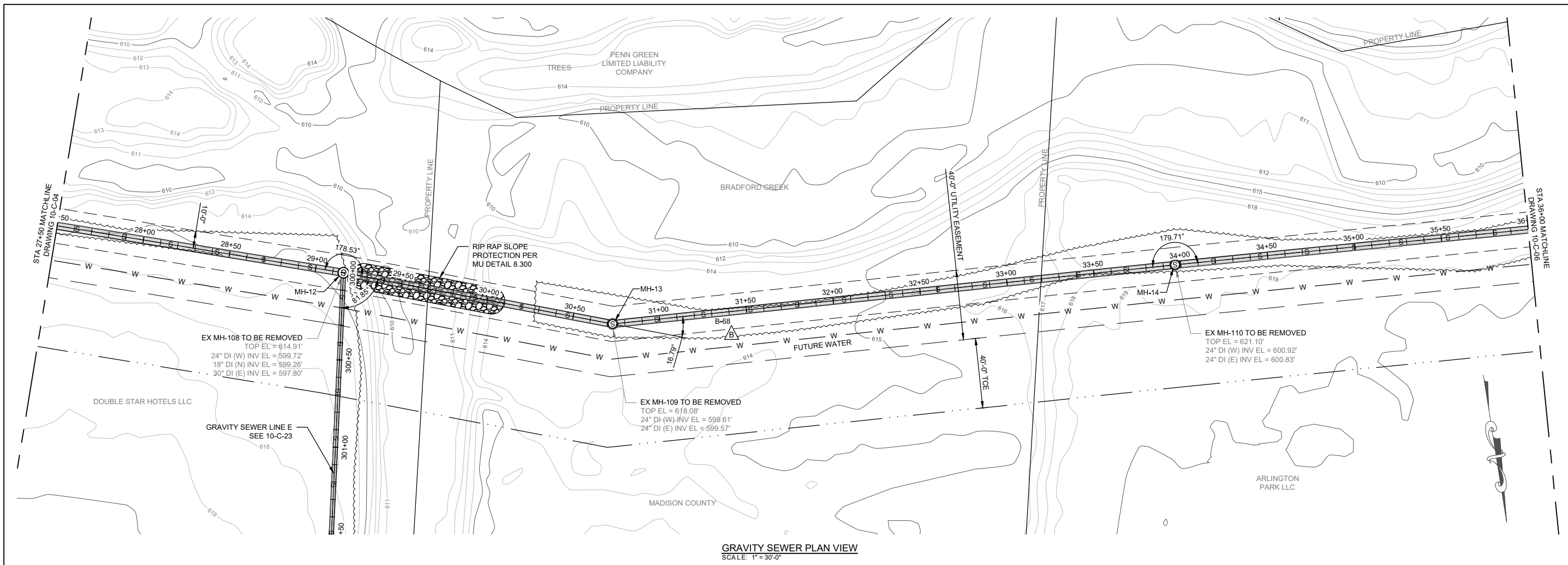
DESIGNED BY: CDS

DRAWN BY: JFL

DWG: 10-C-04

SHEET NUMBER **8**

NO	DATE	DESCRIPTION	FOR REVIEW AND COMMENT	AS-BID	CONSTRUCTION REVISIONS	AS-BUILT
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MADISON UTILITIES
MADISON, AL
WESTERN INTERCEPTOR
FROM MH-97 TO MH-127

GRAVITY SEWER
PLAN & PROFILE
FROM STA 27+50
TO STA 36+00

BOX IS 2 IN WIDE
AT FULL SCALE

JOB NO: MU-1930

DATE: MAY 2020

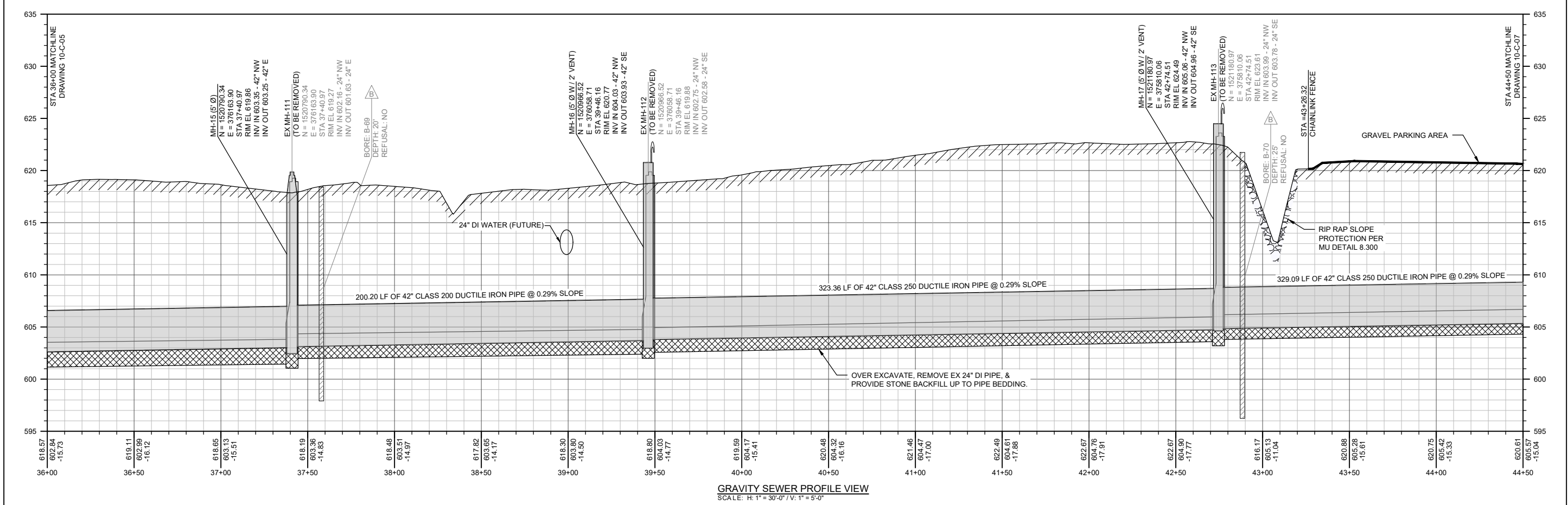
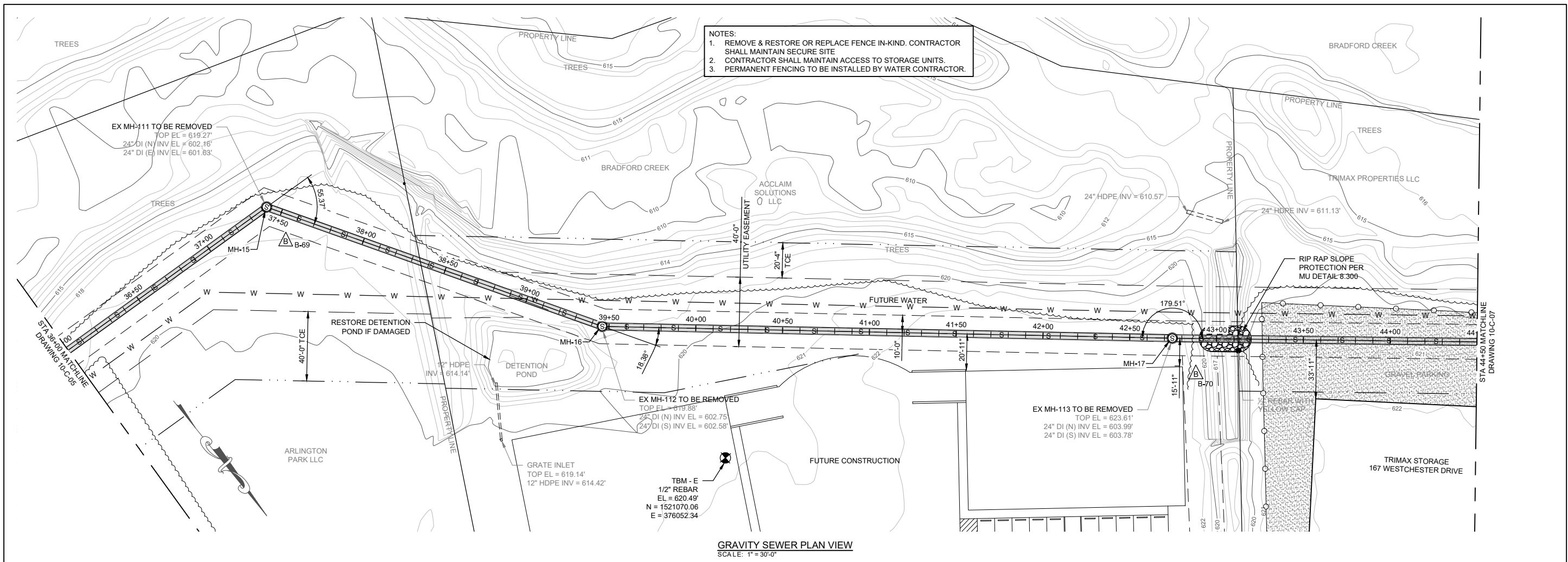
DESIGNED BY: CDS

DRAWN BY: JFL

DWG: 10-C-05

SHEET NUMBER **9**

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MADISON UTILITIES
 MADISON, AL
 WESTERN INTERCEPTOR
 FROM MH-97 TO MH-127

GRAVITY SEWER
 PLAN & PROFILE
 FROM STA 36+00
 TO STA 44+50

BOX IS 2 IN WIDE
 AT FULL SCALE

JOB NO: MU-1930

DATE: MAY 2020

DESIGNED BY: CDS

DRAWN BY: JFL

DWG: 10-C-06

SHEET NUMBER **10**

NO	DATE	DESCRIPTION	FOR REVIEW AND COMMENT	AS-BUILT
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			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>

MADISON UTILITIES
MADISON, AL
WESTERN INTERCEPTOR
FROM MH-97 TO MH-127

GRAVITY SEWER
PLAN & PROFILE
FROM STA 44+50
TO STA 53+00

BOX IS 2 IN WIDE
AT FULL SCALE

JOB NO: MU-1930

DATE: MAY 2020

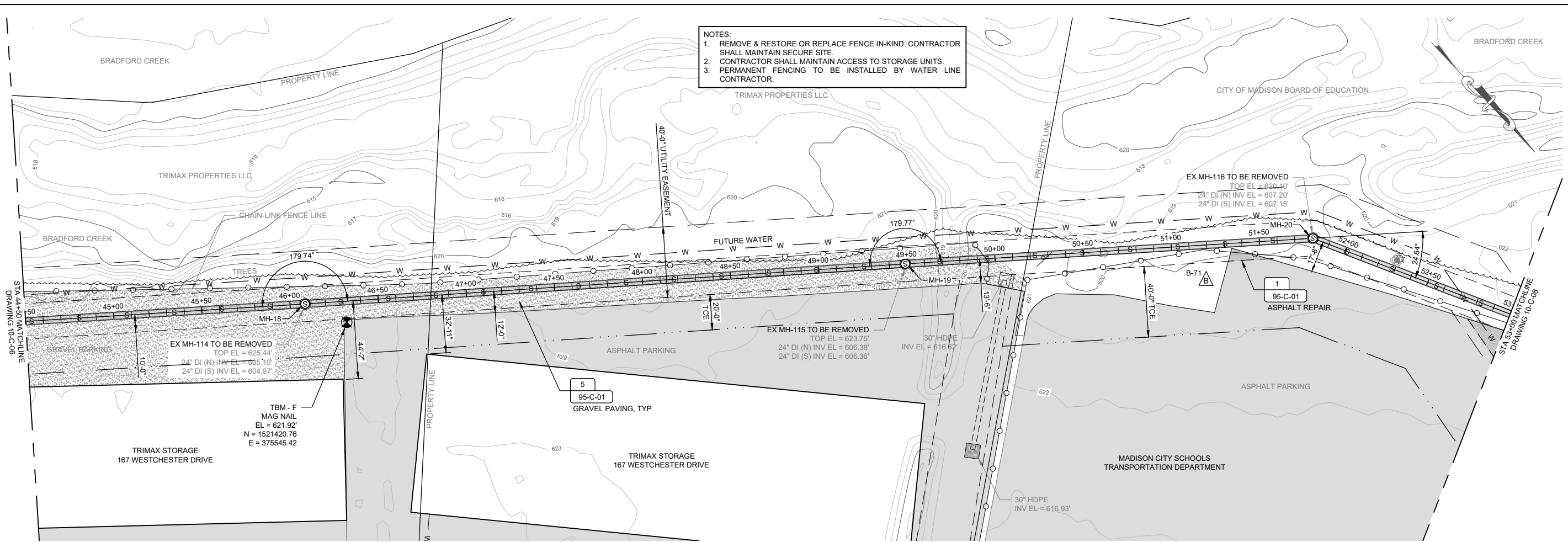
DESIGNED BY: CDS

DRAWN BY: JFL

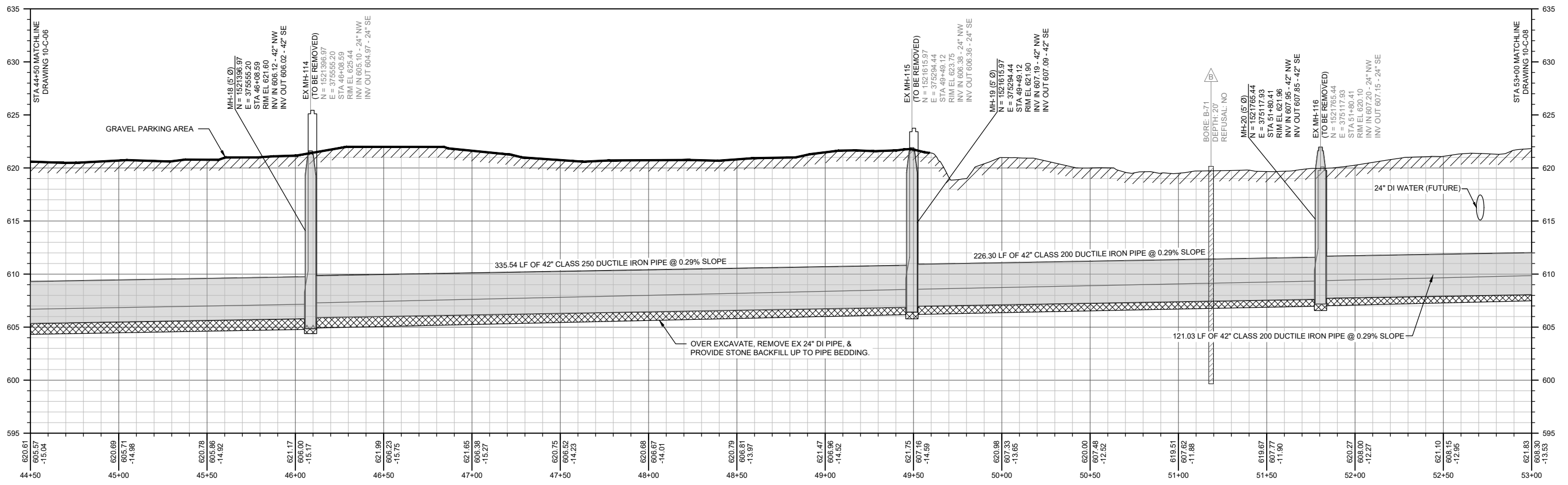
DWG: 10-C-07

SHEET NUMBER **11**

- NOTES:
1. REMOVE & RESTORE OR REPLACE FENCE IN-KIND. CONTRACTOR SHALL MAINTAIN SECURE SITE.
 2. CONTRACTOR SHALL MAINTAIN ACCESS TO STORAGE UNITS.
 3. PERMANENT FENCING TO BE INSTALLED BY WATER LINE CONTRACTOR.



GRAVITY SEWER PLAN VIEW
SCALE: 1" = 30'-0"



GRAVITY SEWER PROFILE VIEW
SCALE: H: 1" = 30'-0" / V: 1" = 5'-0"

NO	DATE	DESCRIPTION	FOR REVIEW AND COMMENT	AS-BUILT
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>

**MADISON UTILITIES
MADISON, AL**

**WESTERN INTERCEPTOR
FROM MH-97 TO MH-127**

GRAVITY SEWER
PLAN & PROFILE
FROM STA 53+00
TO STA 61+50

BOX IS 2 IN WIDE
AT FULL SCALE

JOB NO: MU-1930

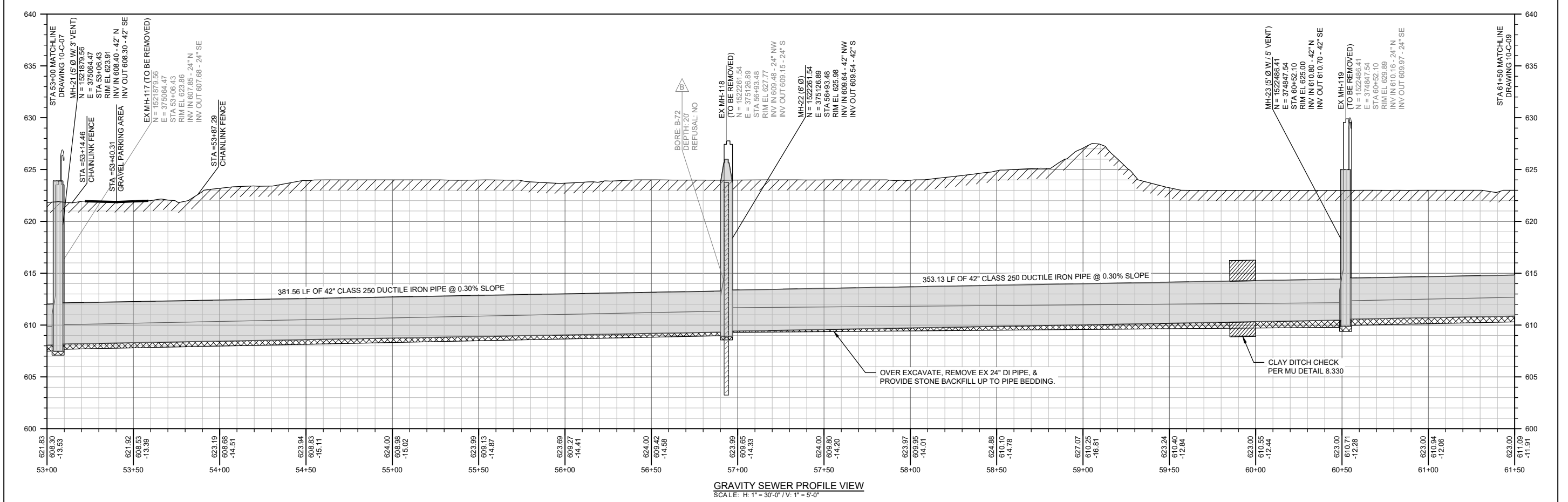
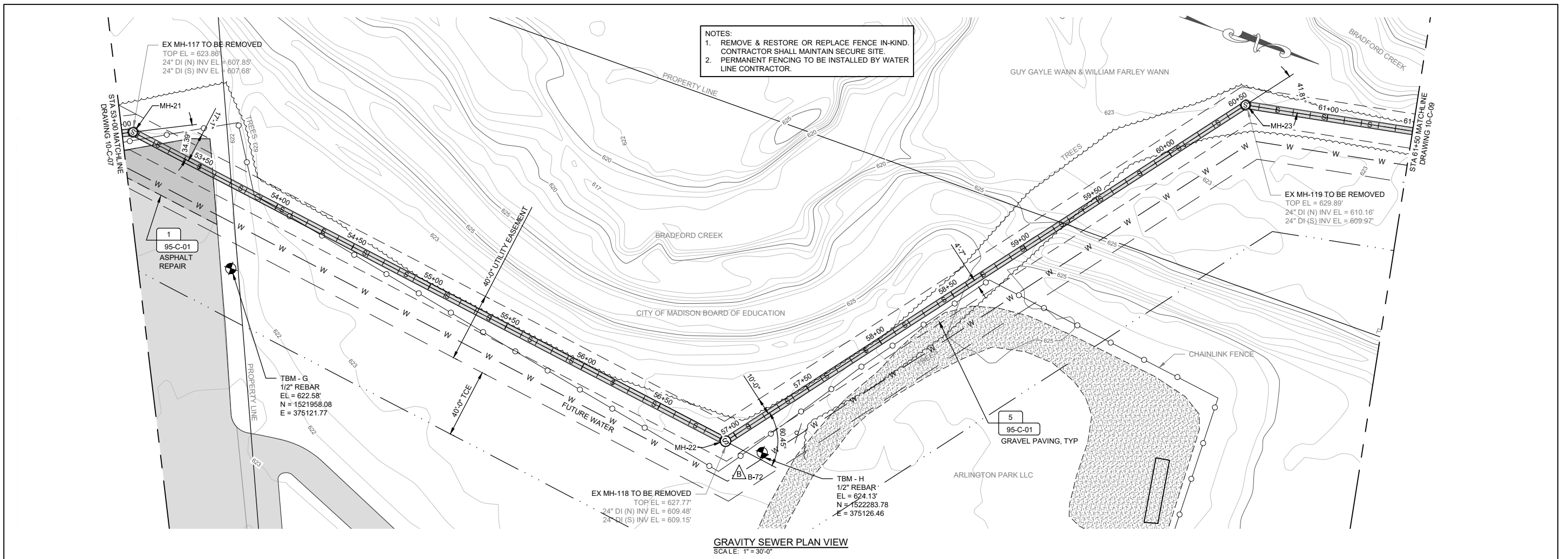
DATE: MAY 2020

DESIGNED BY: CDS

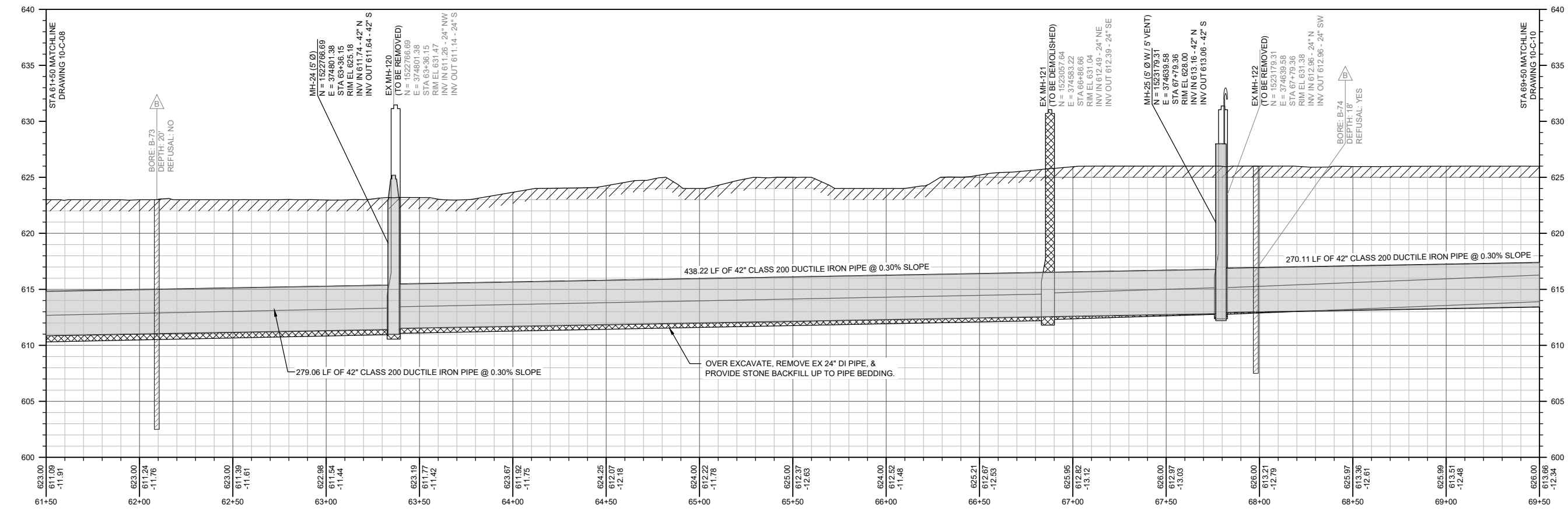
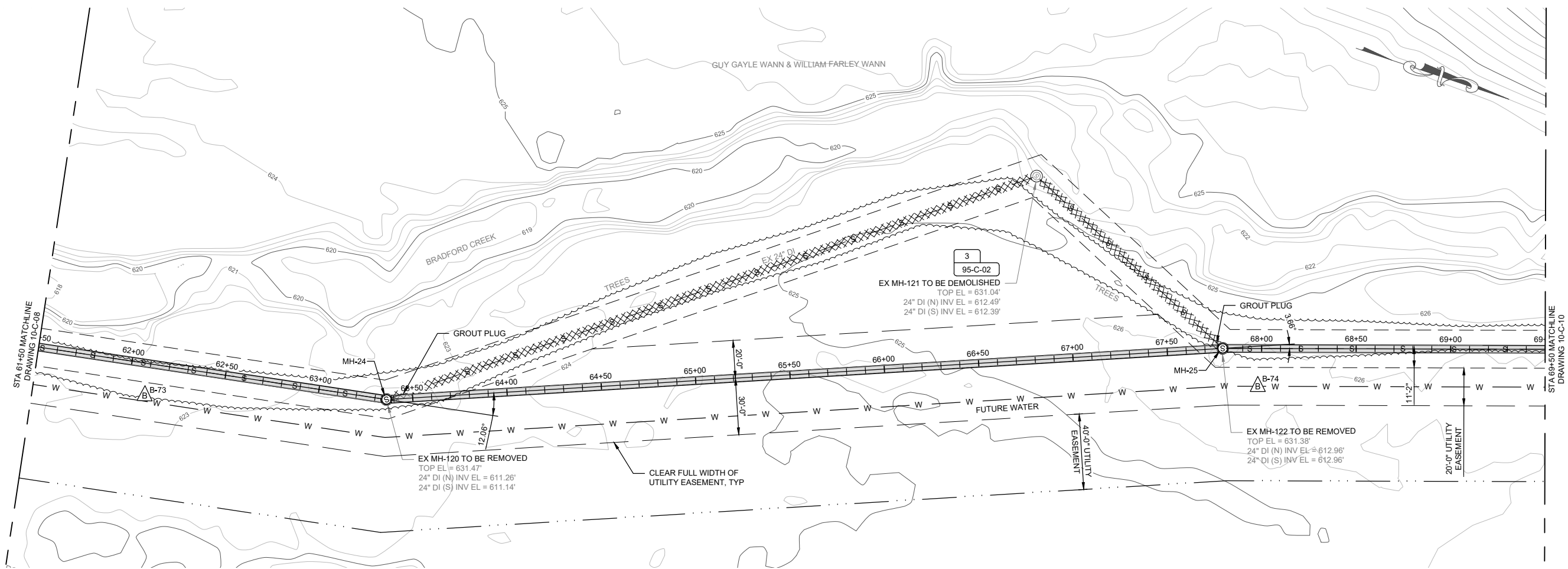
DRAWN BY: JFL

DWG: 10-C-08

SHEET NUMBER **12**



NO	DATE	DESCRIPTION	FOR REVIEW AND COMMENT	AS-BID	CONSTRUCTION REVISIONS	AS-BUILT
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MADISON UTILITIES
MADISON, AL
WESTERN INTERCEPTOR
FROM MH-97 TO MH-127

GRAVITY SEWER
PLAN & PROFILE
FROM STA 61+50
TO STA 69+50

BOX IS 2 IN WIDE
AT FULL SCALE

JOB NO: MU-1930

DATE: MAY 2020

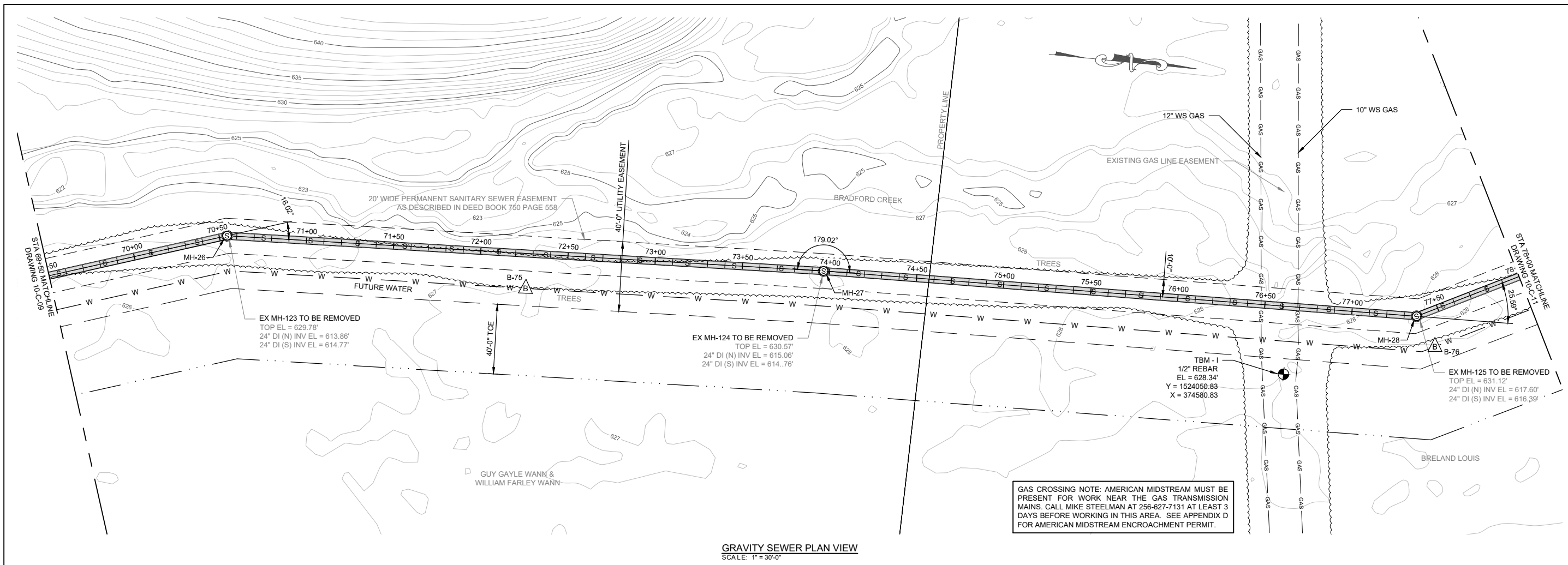
DESIGNED BY: CDS

DRAWN BY: JFL

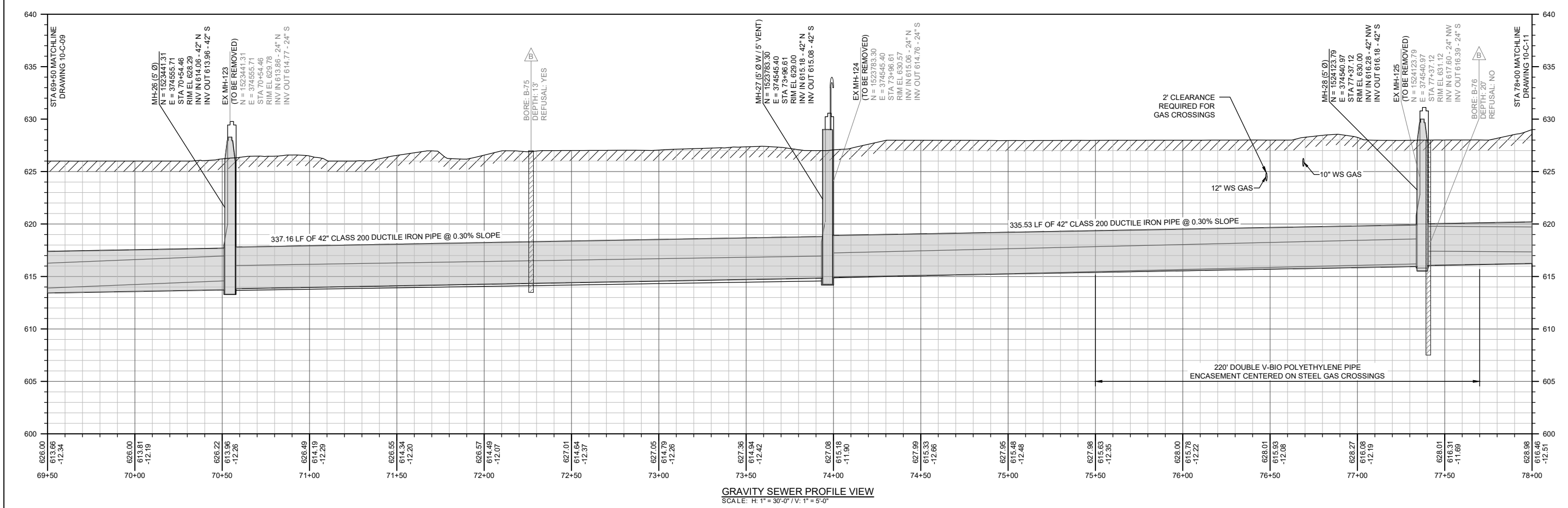
DWG: 10-C-09

SHEET NUMBER **13**

NO	DATE	DESCRIPTION	FOR REVIEW AND COMMENT	CONSTRUCTION REVISIONS	AS-BUILT
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GAS CROSSING NOTE: AMERICAN MIDSTREAM MUST BE PRESENT FOR WORK NEAR THE GAS TRANSMISSION MAINS. CALL MIKE STEELMAN AT 256-627-7131 AT LEAST 3 DAYS BEFORE WORKING IN THIS AREA. SEE APPENDIX D FOR AMERICAN MIDSTREAM ENCROACHMENT PERMIT.



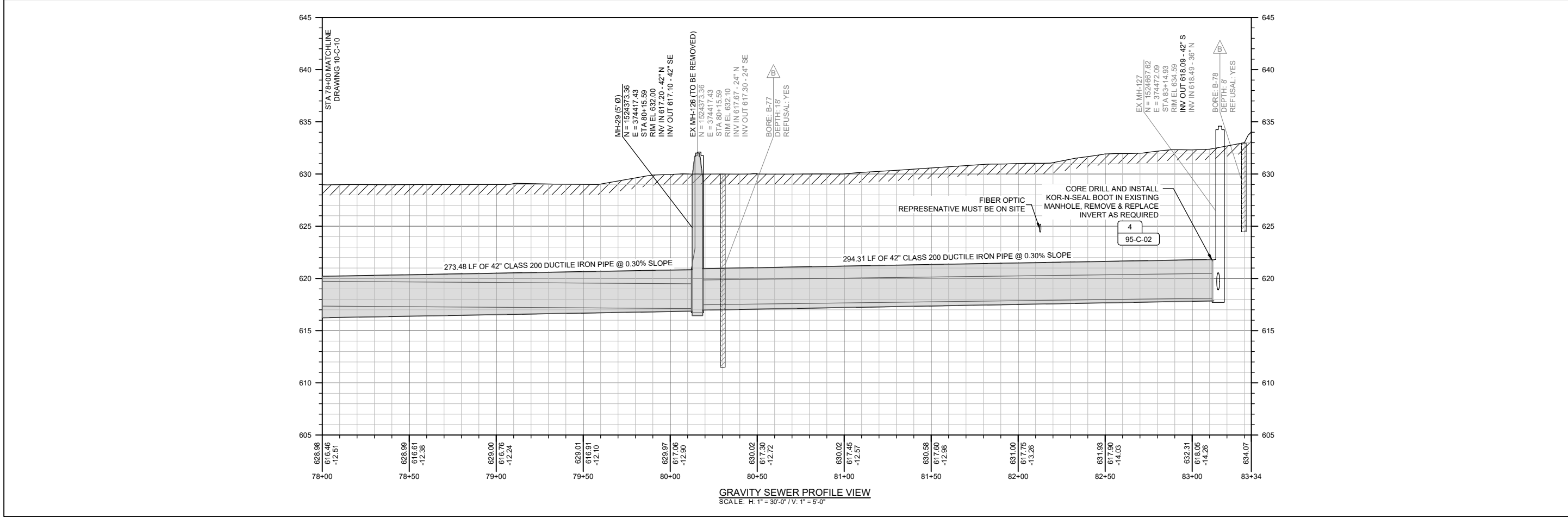
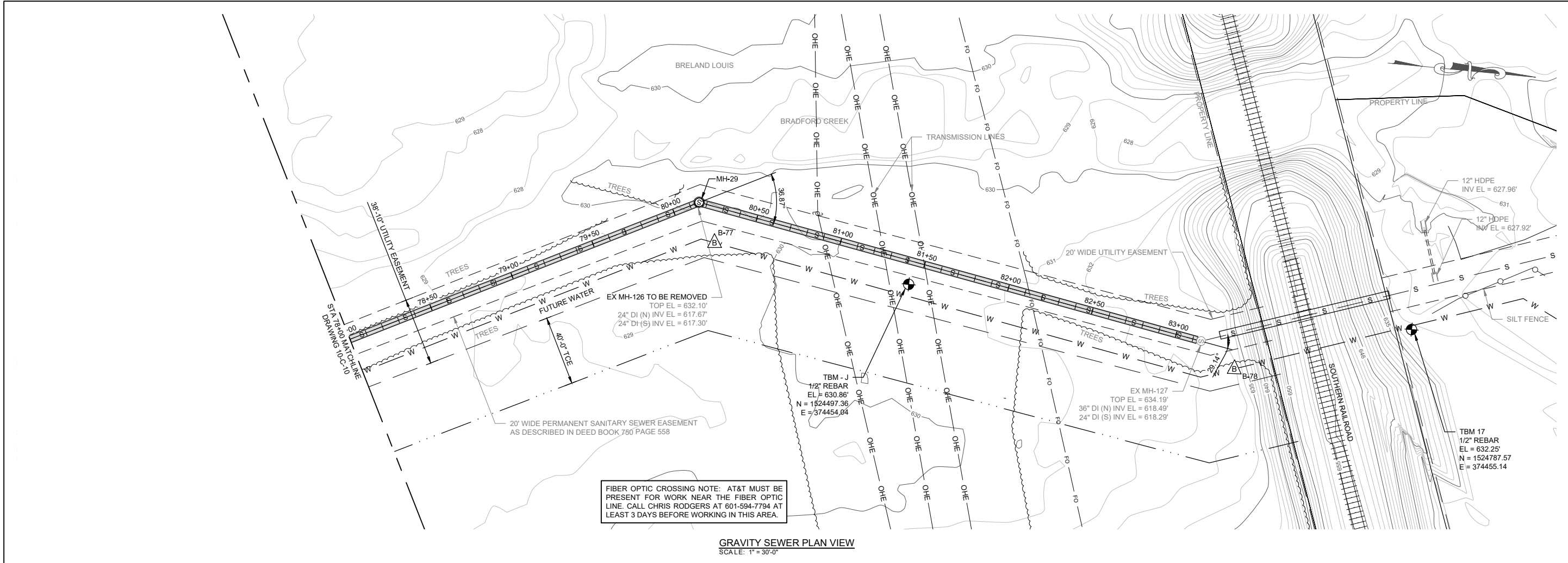
MADISON UTILITIES
MADISON, AL
WESTERN INTERCEPTOR
FROM MH-97 TO MH-127

GRAVITY SEWER
PLAN & PROFILE
FROM STA 69+50
TO STA 78+00

BOX IS 2 IN WIDE
AT FULL SCALE

JOB NO: MU-1930
DATE: MAY 2020
DESIGNED BY: CDS
DRAWN BY: JFL
DWG: 10-C-10
SHEET NUMBER **14**

NO	DATE	DESCRIPTION	FOR REVIEW AND COMMENT	AS-BUILT
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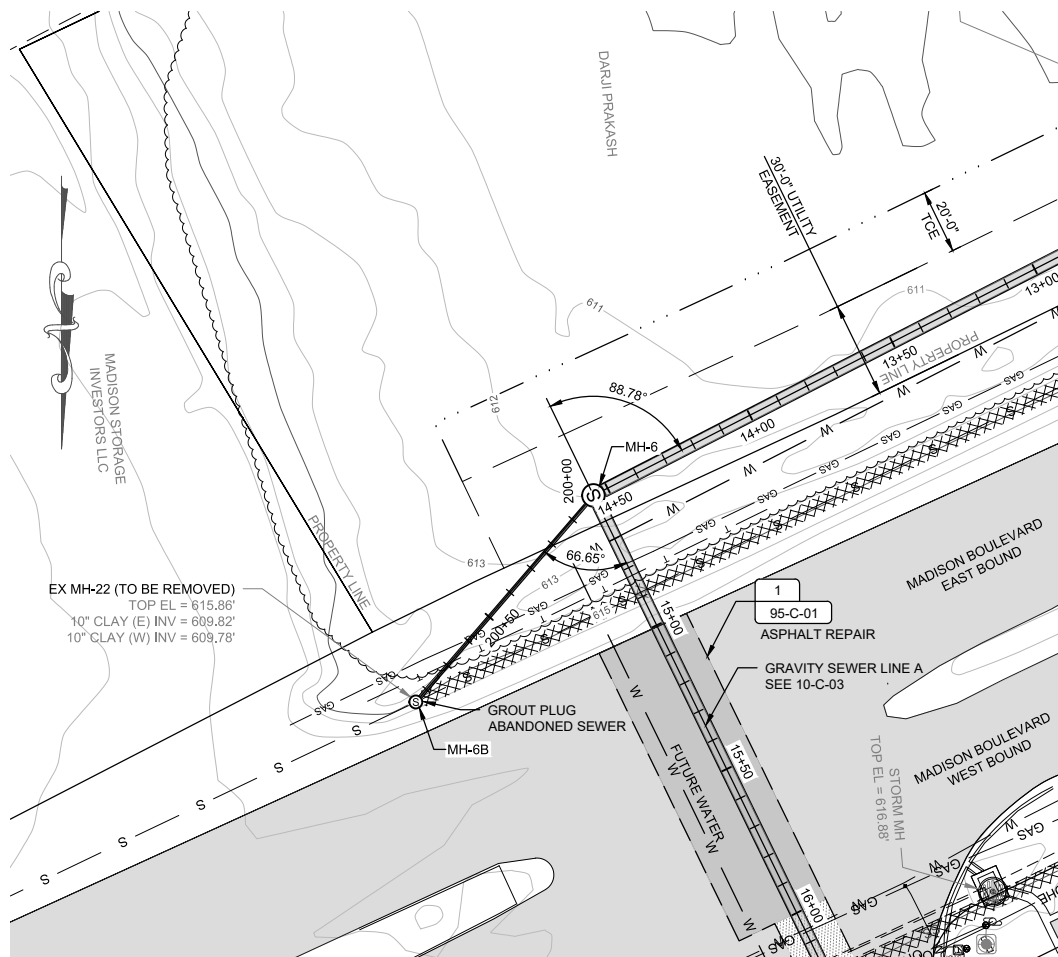


MADISON UTILITIES
MADISON, AL
WESTERN INTERCEPTOR
FROM MH-97 TO MH-127

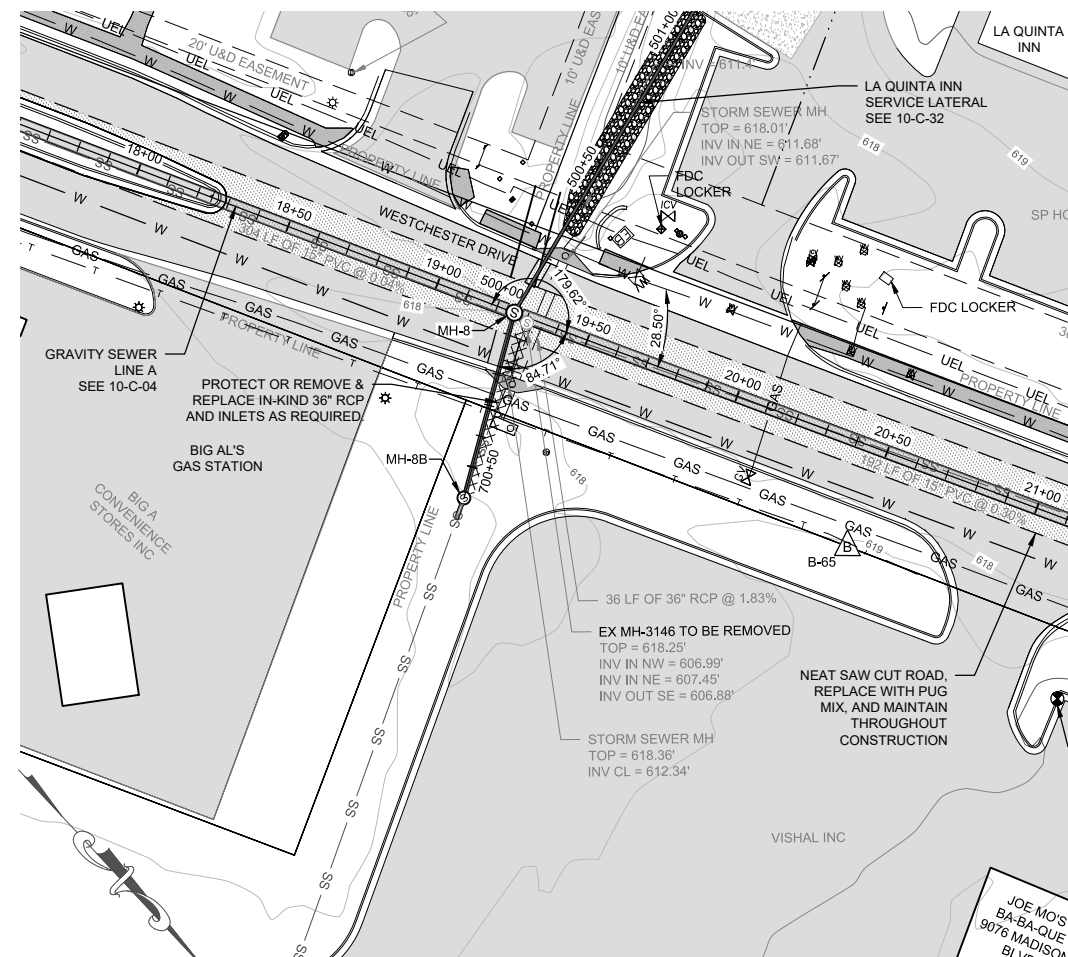
GRAVITY SEWER
PLAN & PROFILE
FROM STA 78+00
TO STA 83+34

BOX IS 2 IN WIDE
AT FULL SCALE

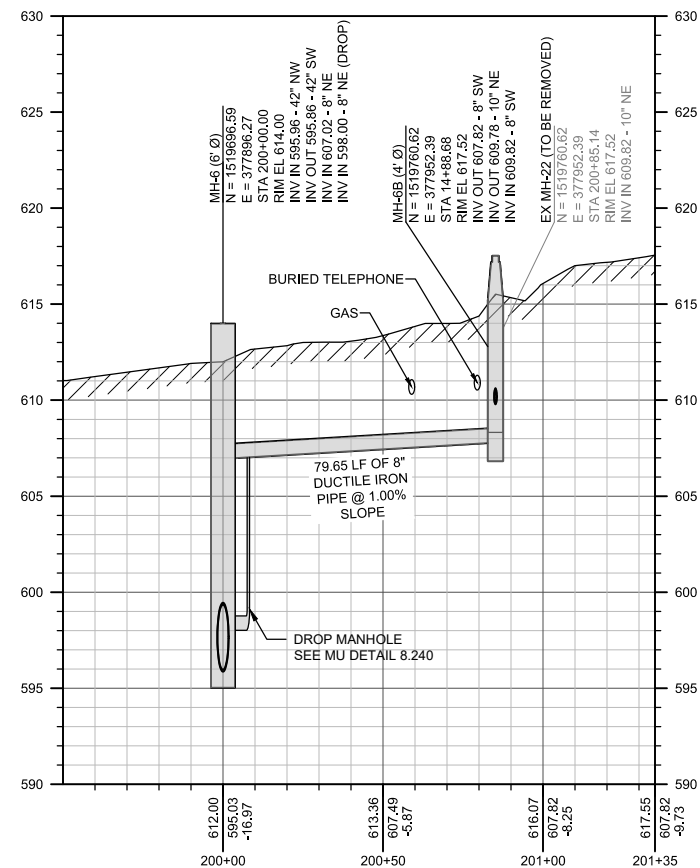
JOB NO: MU-1930
DATE: MAY 2020
DESIGNED BY: CDS
DRAWN BY: JFL
DWG: 10-C-11
SHEET NUMBER **15**



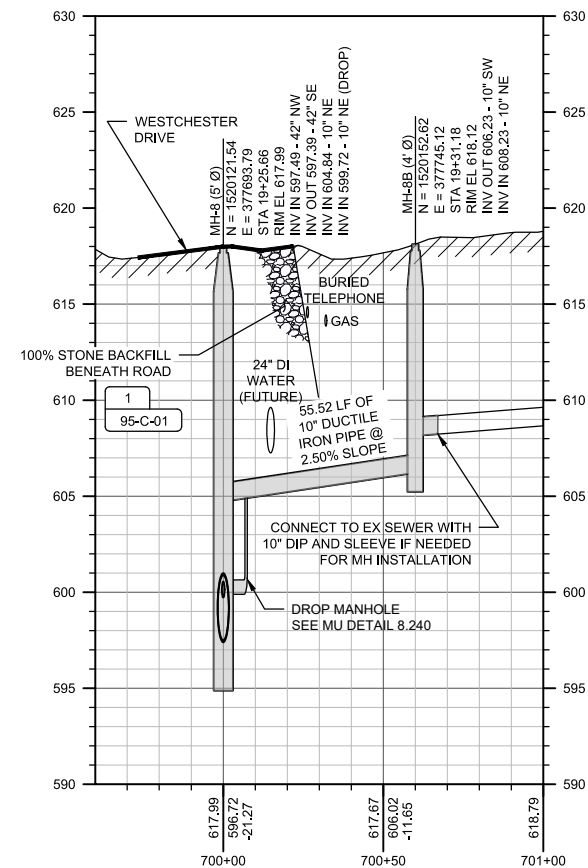
GRAVITY SEWER LINE B PLAN VIEW
SCALE: 1" = 30'-0"



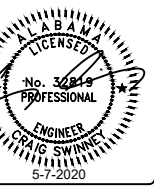
GRAVITY SEWER LINE C PLAN VIEW
SCALE: 1" = 30'-0"



GRAVITY SEWER LINE B PROFILE VIEW
SCALE: H: 1" = 30'-0" / V: 1" = 5'-0"



GRAVITY SEWER LINE C PROFILE VIEW
SCALE: H: 1" = 30'-0" / V: 1" = 5'-0"



NO	DATE	DESCRIPTION	FOR REVIEW AND COMMENT	CONSTRUCTION REVISIONS	AS-BUILT
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

MADISON UTILITIES
MADISON, AL
WESTERN INTERCEPTOR
FROM MH-97 TO MH-127

GRAVITY SEWER LINES B & C PLANS & PROFILES

BOX IS 2 IN WIDE AT FULL SCALE

JOB NO: MU-1930

DATE: MAY 2020

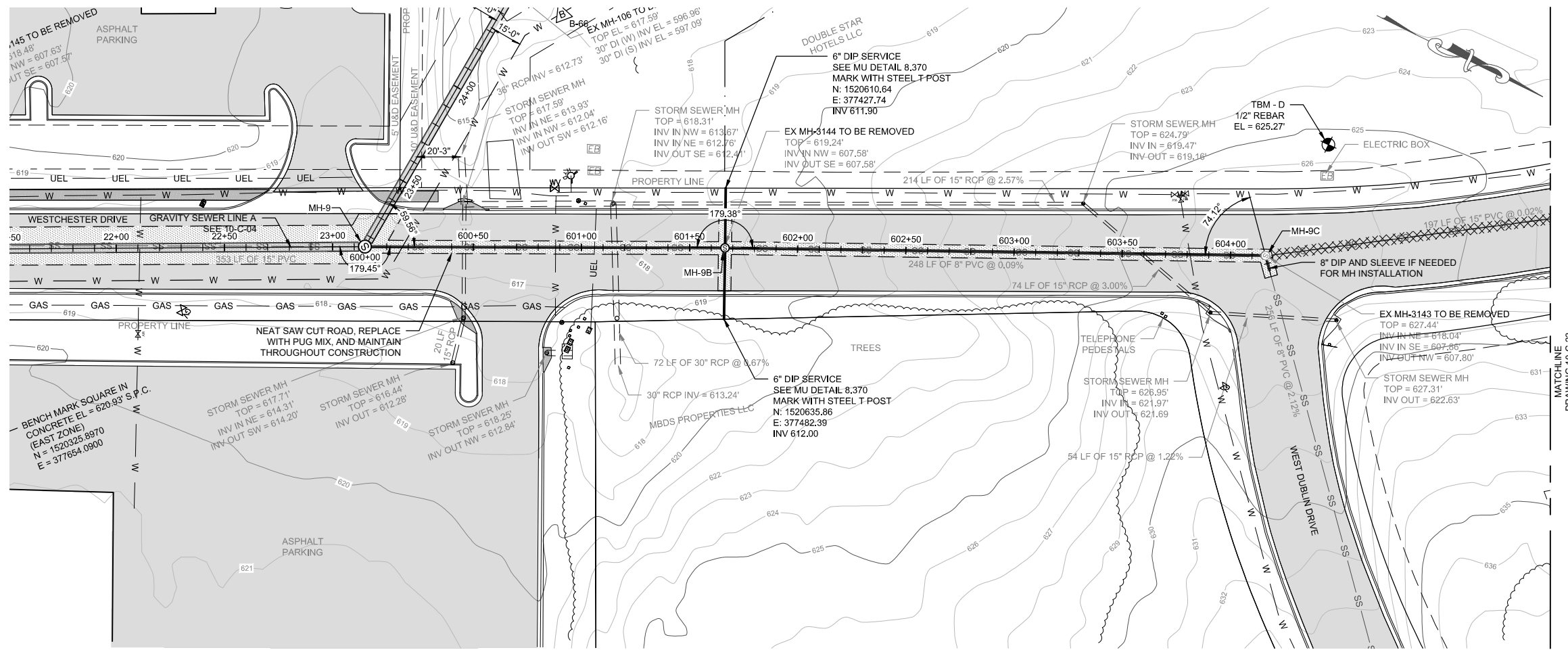
DESIGNED BY: CDS

DRAWN BY: JFL

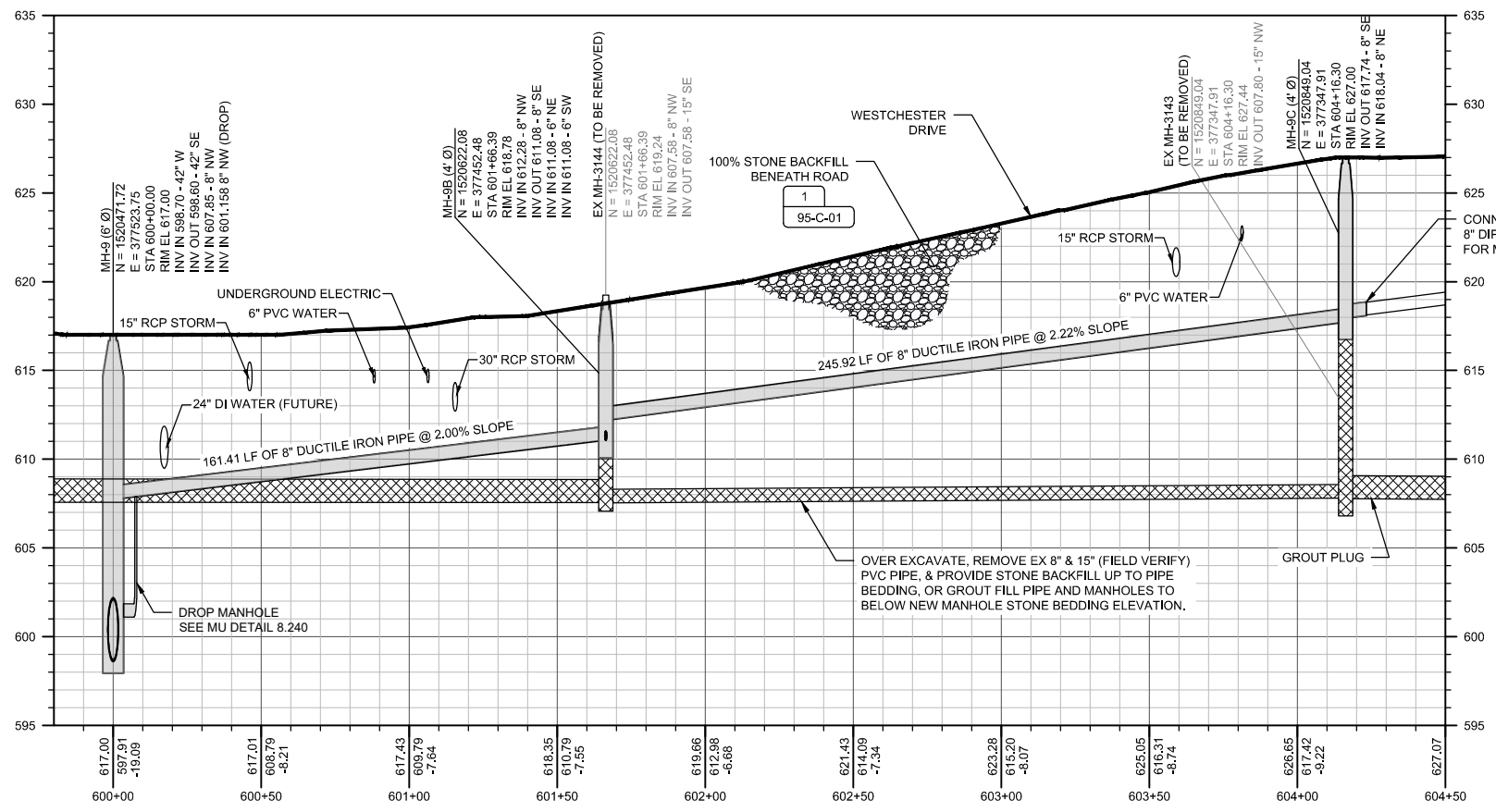
DWG: 10-C-21

SHEET NUMBER **16**

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GRAVITY SEWER LINE D PLAN VIEW
SCALE: 1" = 30'-0"



GRAVITY SEWER LINE D PROFILE VIEW
SCALE: H: 1" = 30'-0" / V: 1" = 5'-0"

MADISON UTILITIES
MADISON, AL
WESTERN INTERCEPTOR
FROM MH-97 TO MH-127

GRAVITY SEWER
LINE D
PLAN & PROFILE

BOX IS 2 IN WIDE
AT FULL SCALE

JOB NO: MU-1930

DATE: MAY 2020

DESIGNED BY: CDS

DRAWN BY: JFL

DWG: 10-C-22

SHEET NUMBER **17**

NO	DATE	DESCRIPTION	FOR REVIEW AND COMMENT	AS-BUILT
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MADISON UTILITIES
MADISON, AL
WESTERN INTERCEPTOR
FROM MH-97 TO MH-127

GRAVITY SEWER LINES E & F
PLAN & PROFILES

BOX IS 2 IN WIDE
AT FULL SCALE

JOB NO: MU-1930

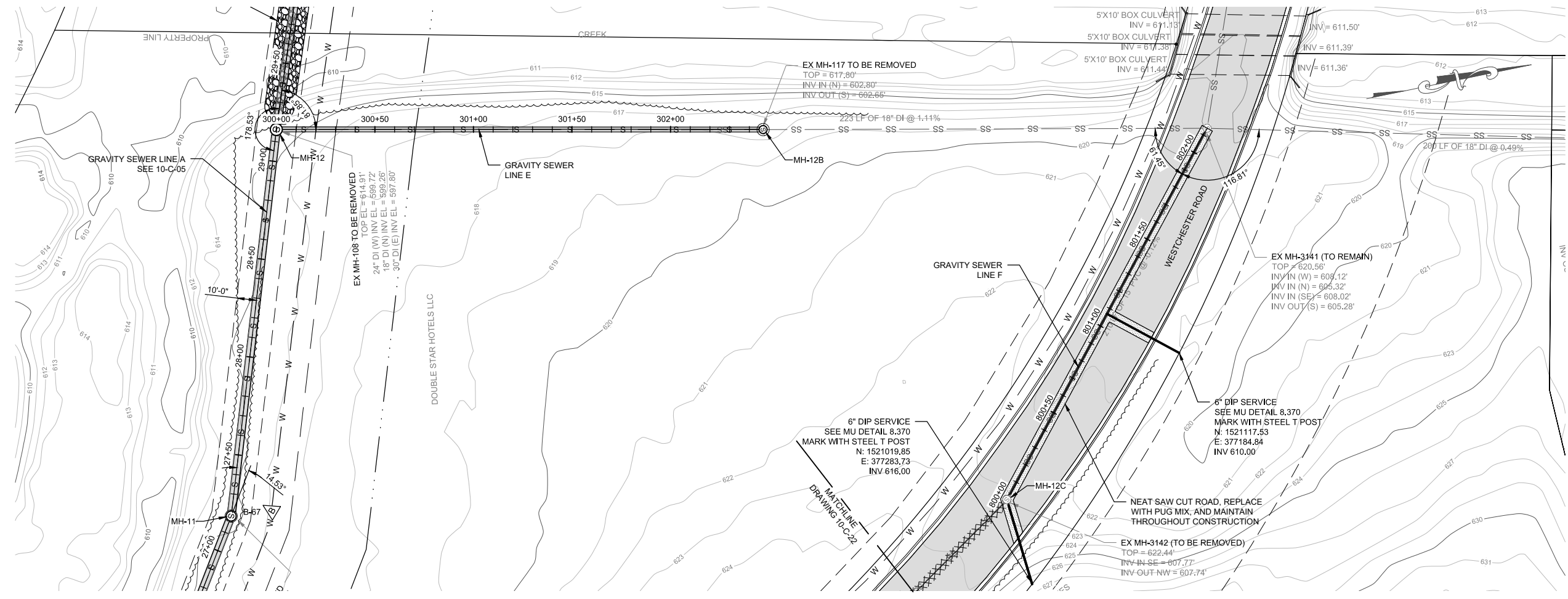
DATE: MAY 2020

DESIGNED BY: CDS

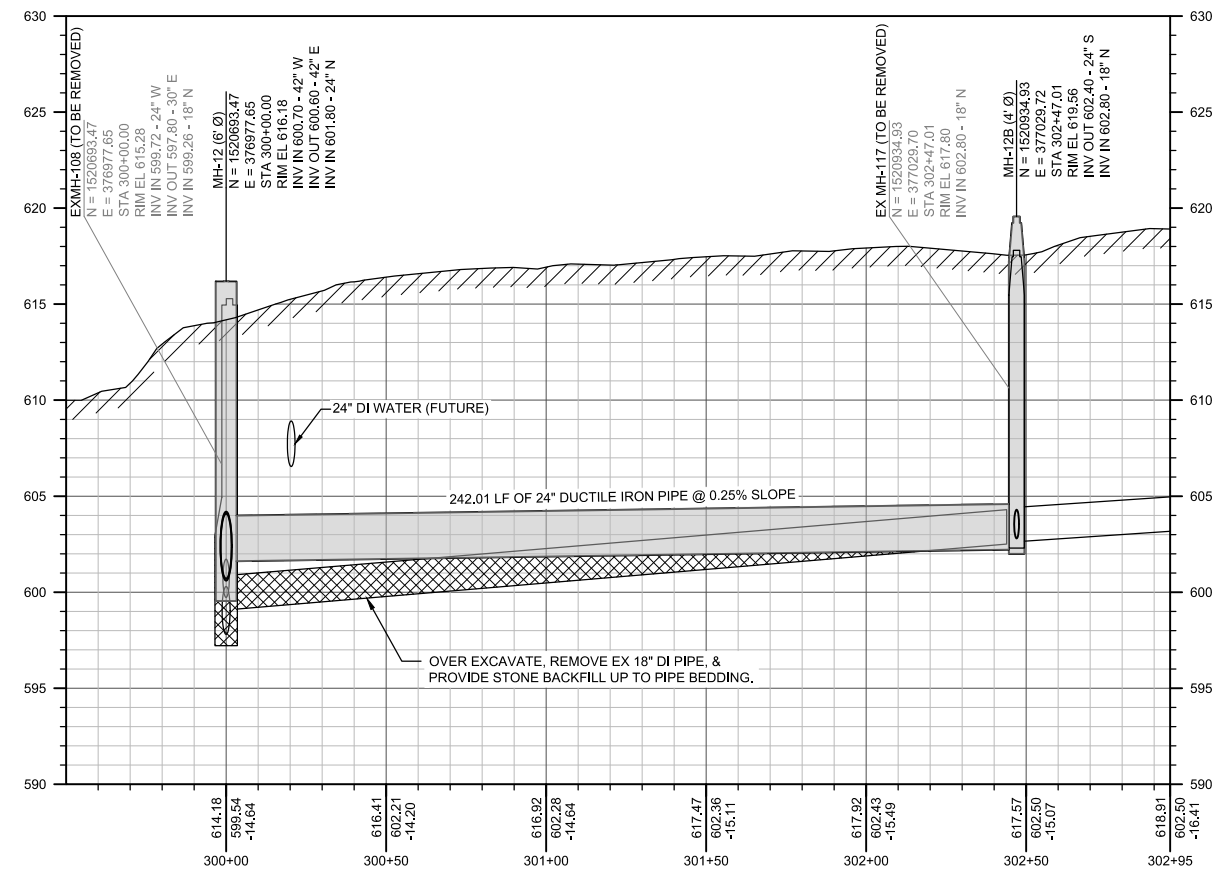
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DWG: 10-C-23

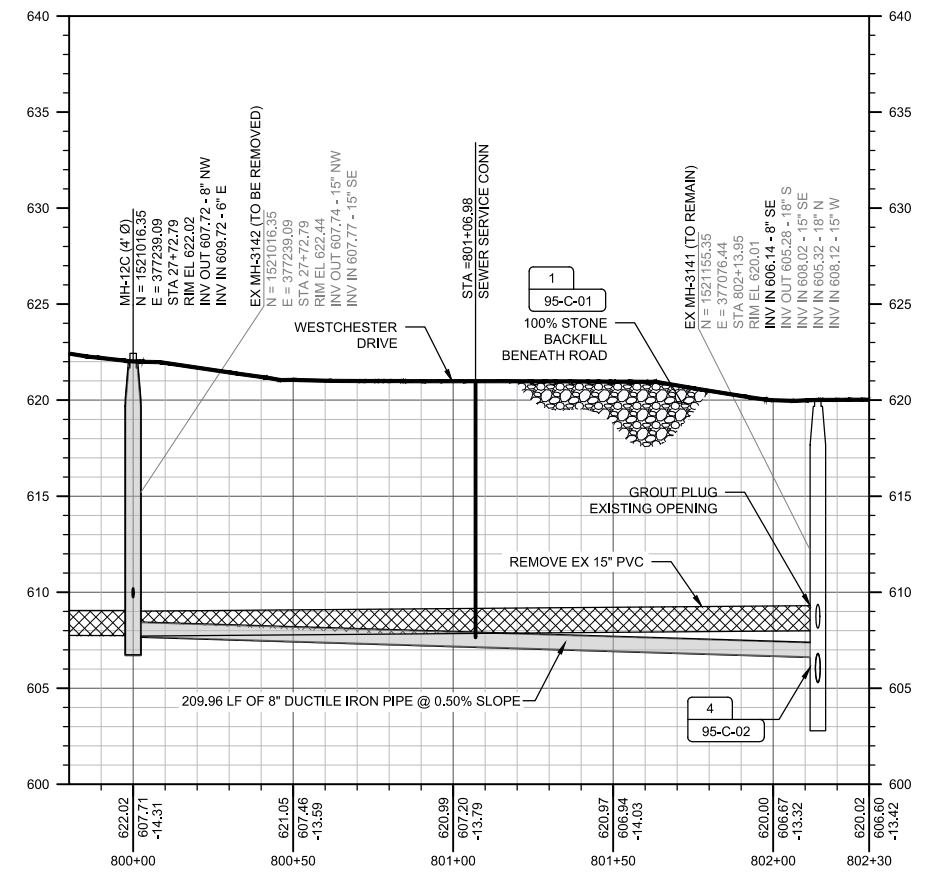
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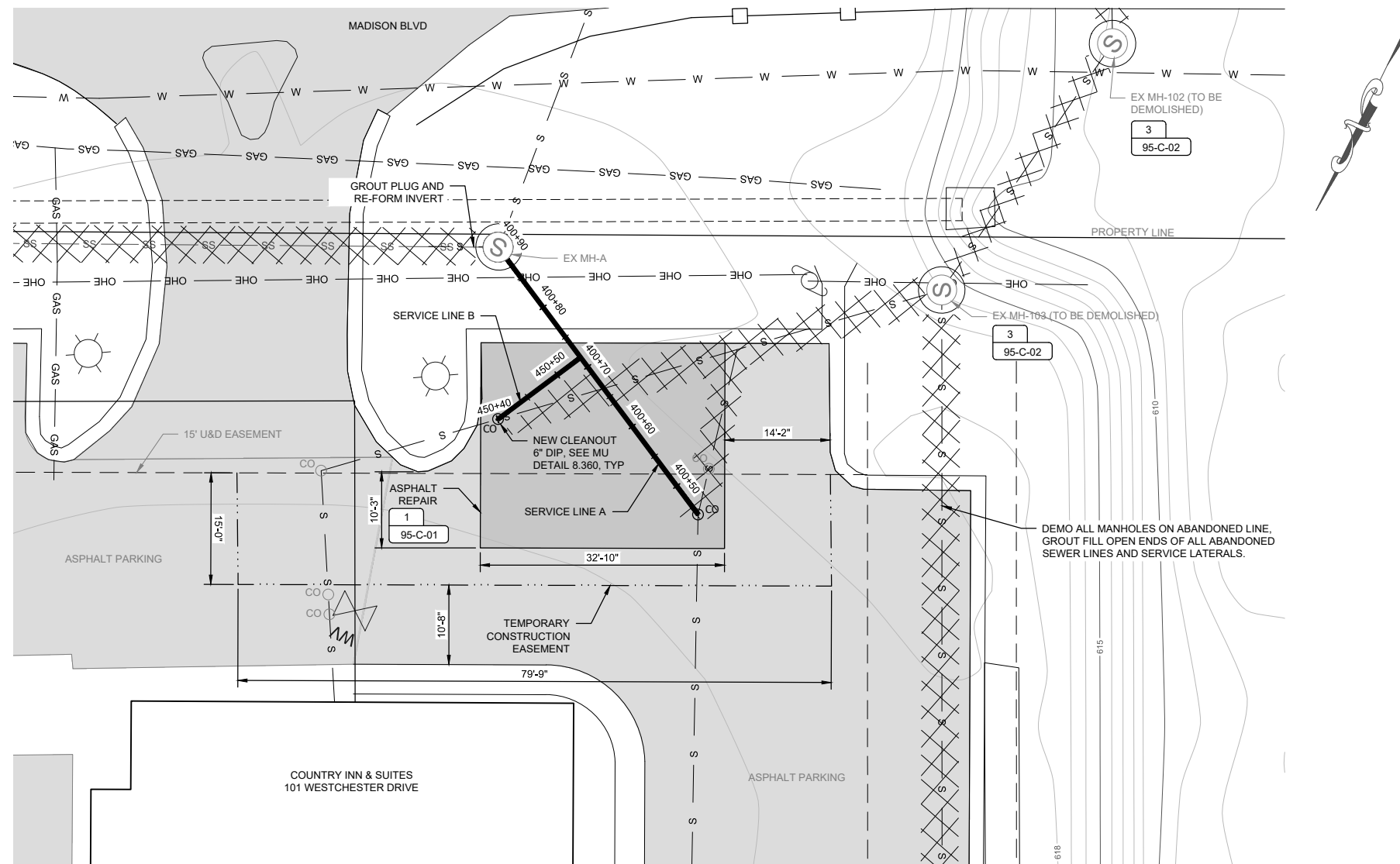
GRAVITY SEWER LINES E & F PLAN VIEW
SCALE: 1" = 30'-0"



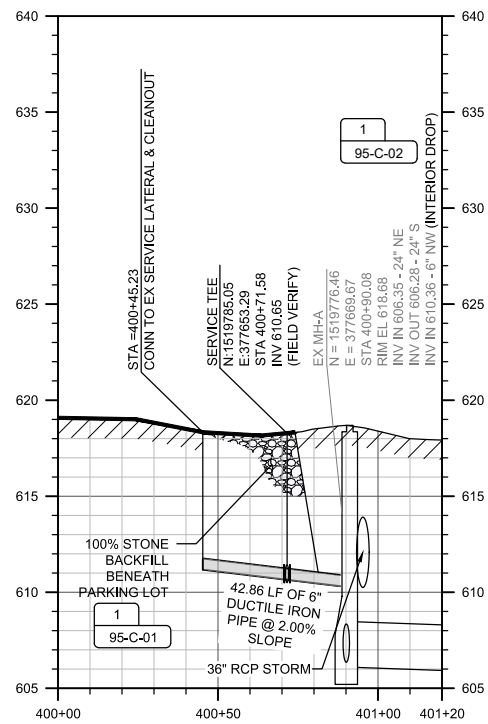
GRAVITY SEWER LINE E PROFILE VIEW
SCALE: H: 1" = 30'-0" / V: 1" = 5'-0"



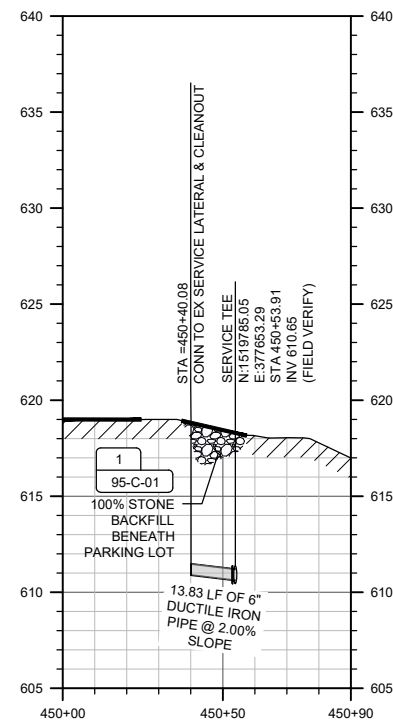
GRAVITY SEWER LINE F PROFILE VIEW
SCALE: H: 1" = 30'-0" / V: 1" = 5'-0"



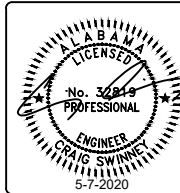
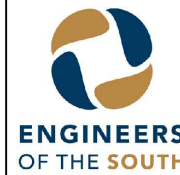
COUNTRY INN SERVICE PLAN VIEW
SCALE: 1" = 10'-0"



COUNTRY INN SERVICE PROFILE VIEW A
SCALE: H: 1" = 30'-0" / V: 1" = 5'-0"



COUNTRY INN SERVICE PROFILE VIEW B
SCALE: H: 1" = 30'-0" / V: 1" = 5'-0"



NO	DATE	DESCRIPTION	FOR REVIEW AND COMMENT	AS-BID	CONSTRUCTION REVISIONS	AS-BUILT
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

MADISON UTILITIES
MADISON, AL
WESTERN INTERCEPTOR
FROM MH-97 TO MH-127

COUNTRY INN
SEWER LATERAL
PLAN & PROFILES

BOX IS 2 IN WIDE
AT FULL SCALE

JOB NO: MU-1930

DATE: MAY 2020

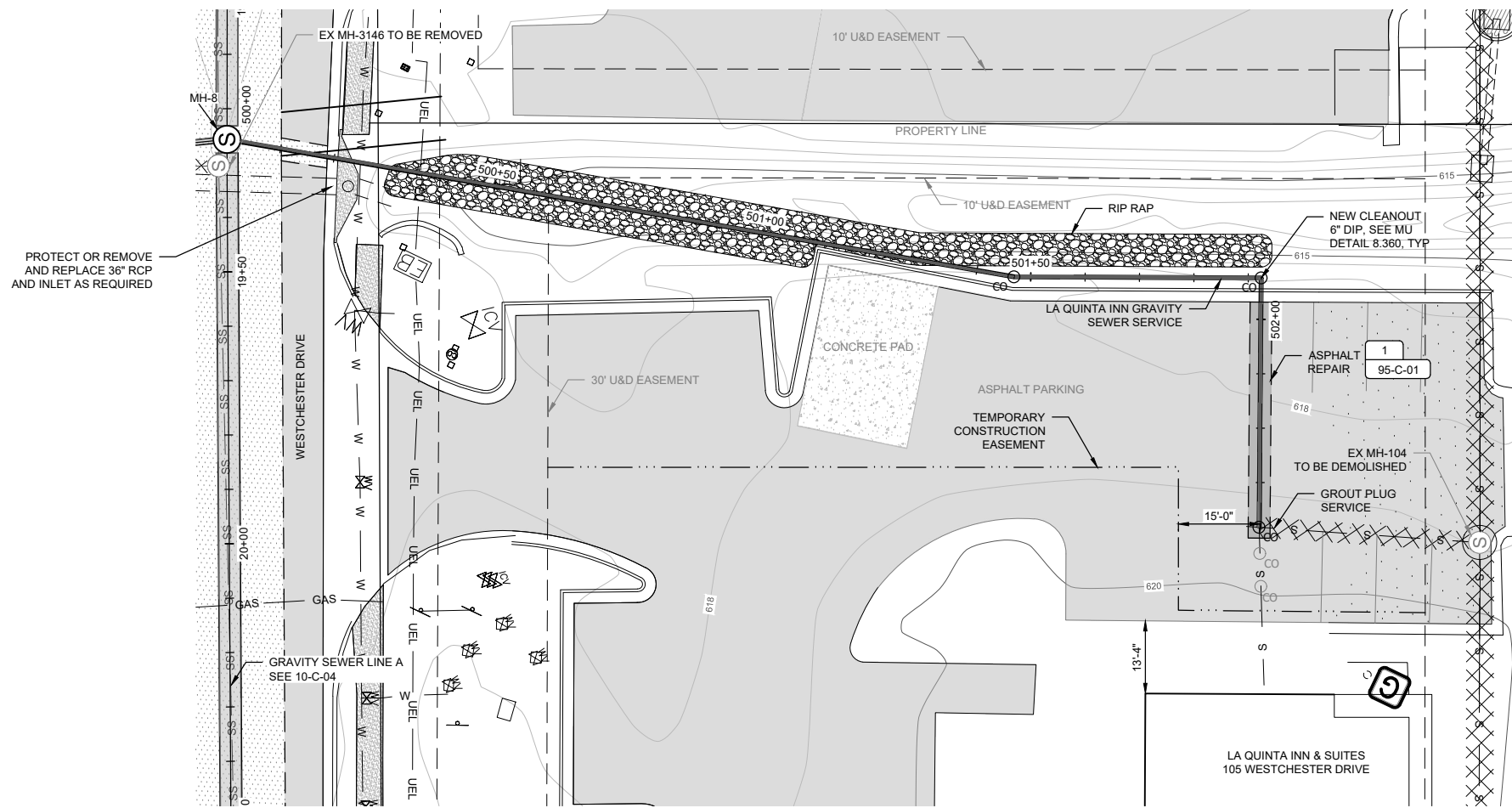
DESIGNED BY: CDS

DRAWN BY: JFL

DWG: 10-C-31

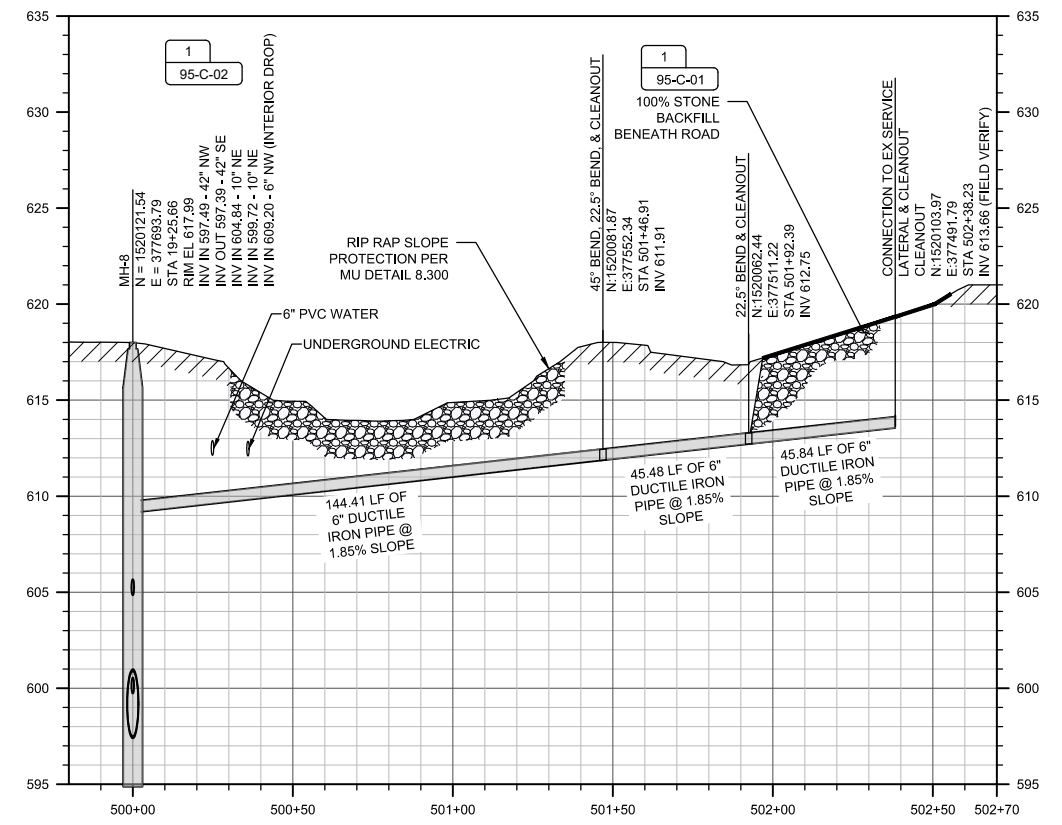
SHEET NUMBER **19**

NO	DATE	DESCRIPTION	FOR REVIEW AND COMMENT	AS-BID	CONSTRUCTION REVISIONS	AS-BUILT
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- NOTES:
1. SHUT OFF WATER TO SPRINKLER SYSTEM AT METER BEFORE DIGGING. COORDINATE WITH OWNER.
 2. PROTECT OR REPLACE SPRINKLERS, WATER LINES, AND ELECTRICAL CONDUIT.
 3. CONTACT US LAWNS AT 256-656-0411 FOR REPLACEMENT OF ANY DAMAGED SPRINKLER HEADS.
 4. REMOVE TREES AS REQUIRED.
 5. RIPRAP DISTURBED CREEK BANKS AS SHOWN.
 6. SOD DISTURBED GRASSED AREAS

LA QUINTA INN SERVICE PLAN VIEW
SCALE: 1" = 15'-0"



LA QUINTA INN SERVICE PROFILE VIEW
SCALE: H: 1" = 30'-0" / V: 1" = 5'-0"

MADISON UTILITIES
MADISON, AL
WESTERN INTERCEPTOR
FROM MH-97 TO MH-127

LA QUINTA INN
SEWER LATERAL
PLAN & PROFILE

BOX IS 2 IN WIDE
AT FULL SCALE

JOB NO: MU-1930

DATE: MAY 2020

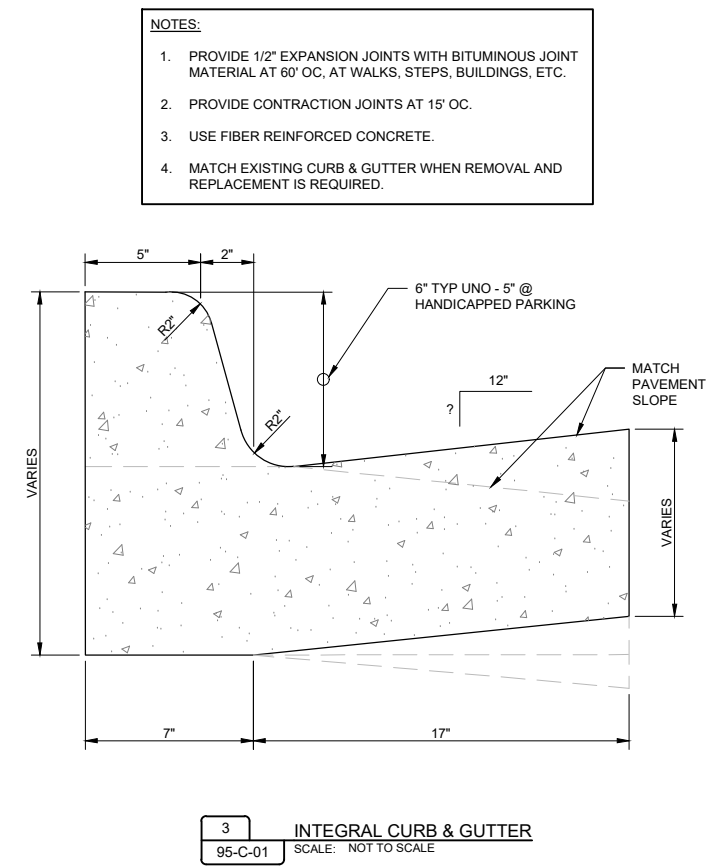
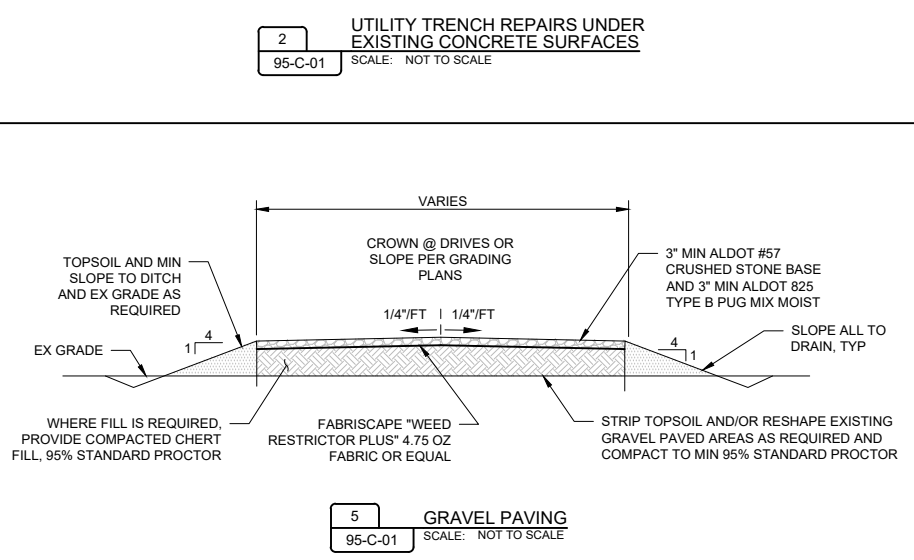
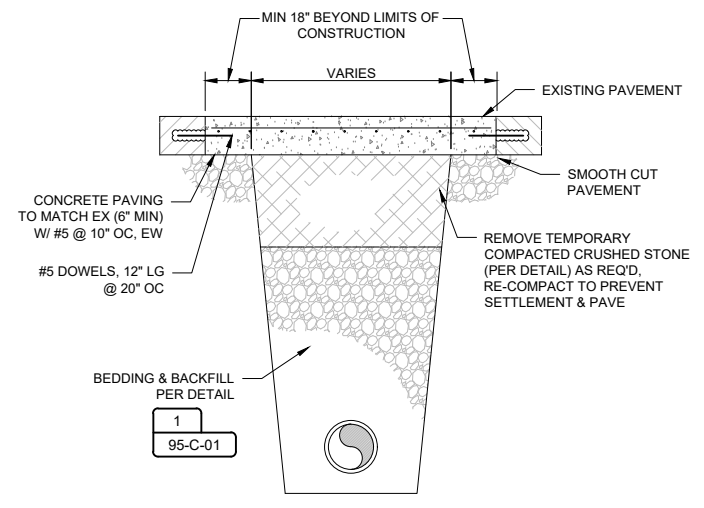
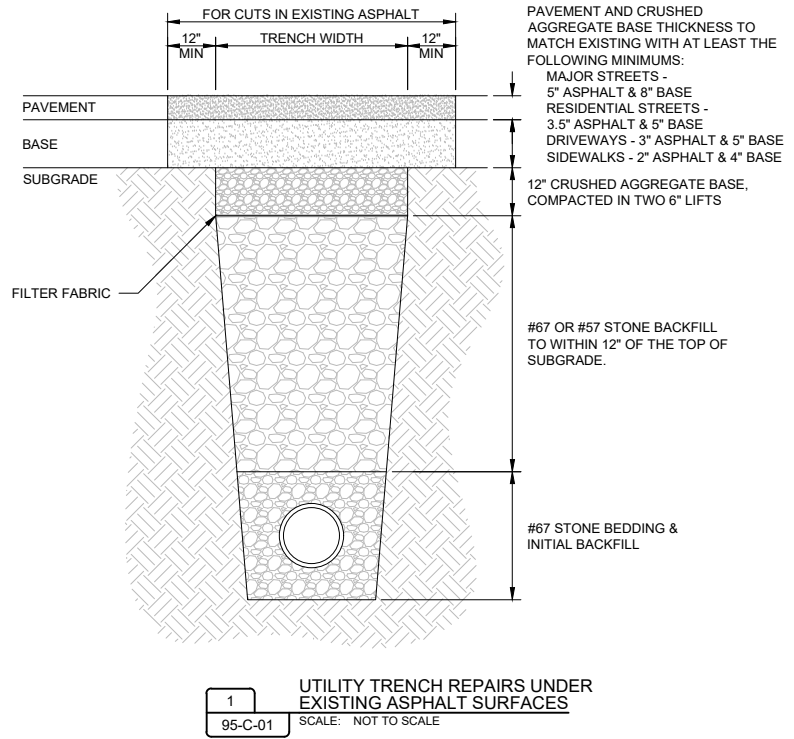
DESIGNED BY: CDS

DRAWN BY: JFL

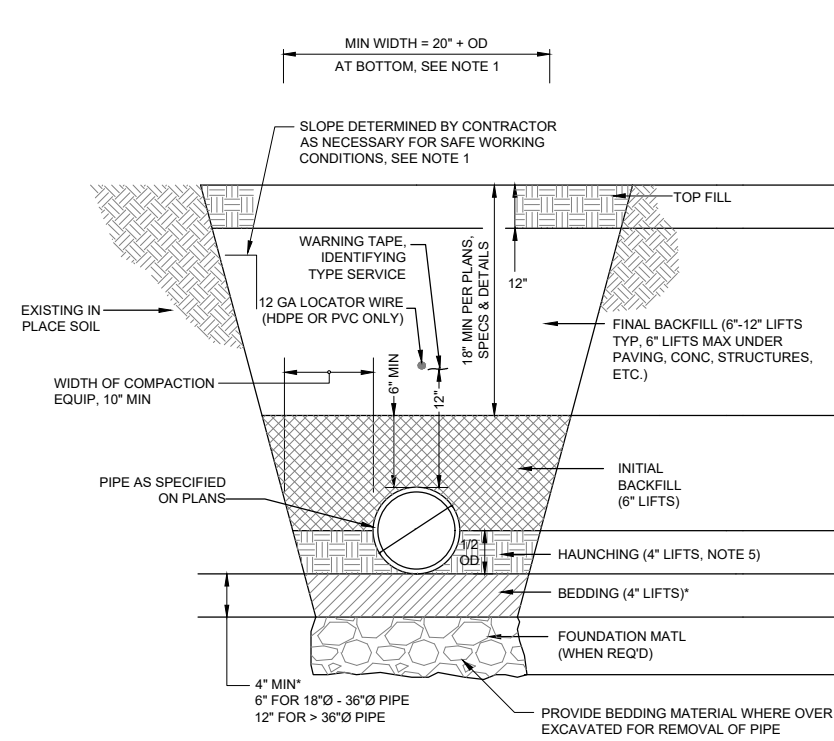
DWG: 10-C-32

SHEET NUMBER **20**

- NOTES:**
1. THIS DETAIL SHALL SUPERCEDE STANDARD DRAWING NO. 8.120 IN "CONSTRUCTION SPECIFICATIONS FOR WATER AND SANITARY SEWER" BY MADISON UTILITIES.
 2. RESURFACE AREAS SHALL HAVE 1.5" ASPHALT WEARING SURFACE AND MUST BE MILLED AROUND EDGES TO MATCH ADJACENT PAVEMENT, CURBS, ASPHALT, ETC.
 3. IN EXISTING ROADS: SAWCUT PERIMETER OF PAVEMENT TO BE REPLACED.
 4. REPLACE ALL PAVEMENT DAMAGED OR UNDERMINED BY THE UTILITY INSTALLATION.
 5. TRENCH BACKFILL & PAVEMENT REPLACEMENT TO MEET THE MADISON CITY SPECIFICATIONS. CALL 256-772-5639 FOR CITY INSPECTION PRIOR TO PLACING THE NEW PAVEMENT SURFACE.



- NOTES:**
1. PROVIDE 1/2" EXPANSION JOINTS WITH BITUMINOUS JOINT MATERIAL AT 60' OC, AT WALKS, STEPS, BUILDINGS, ETC.
 2. PROVIDE CONTRACTION JOINTS AT 15' OC.
 3. USE FIBER REINFORCED CONCRETE.
 4. MATCH EXISTING CURB & GUTTER WHEN REMOVAL AND REPLACEMENT IS REQUIRED.



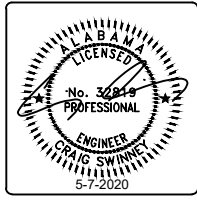
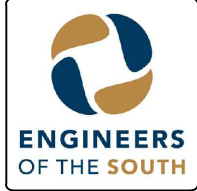
BEDDING/BACKFILL REQUIREMENTS & MATL DESIGNATIONS (SEE MATERIAL DESIGNATION / DESCRIPTIONS TABLE)								
PRESSURE MAINS			GRAVITY LINES			PAVED AREAS		
DI	CONC	HDPE/PVC	DI	CONC	HDPE/PVC	DI	CONC	HDPE/PVC
5	5	5	5	5	5	6**	6**	6**
4	4	4	4	4	4	1	1	2
3	3	2	3	3	2	1	1	2
2	3	2	1	1	2	1	1	2
2	1	2	1	1	2	1	1	2

RIP-RAP OR CRUSHED STONE CLASS 1B (USCS IN ASTM D2487)

- NOTES:**
1. SLOPE, BENCHING, SHORING, ETC. AS DETERMINED AND DESIGNED BY THE CONTRACTOR. CONTRACTOR IS SOLELY RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE OSHA REGULATIONS FOR "OPEN TRENCH EXCAVATIONS".
 2. BEDDING REQ'D FOR ALL GRAVITY LINES, ALL PVC LINES AND ALL CONCRETE LINES. BEDDING REQUIRED IN ALL AREAS OF ROCK EXCAVATION OR UNSUITABLE SOILS. BELL HOLES REQ'D FOR PIPES > 4" DIA. FOR DUCTILE IRON PRESSURE MAINS, SELECT EARTH MAY BE USED FOR BEDDING IN AREAS OF ROCK EXCAVATION.
 3. ALL MATERIALS SHALL BE COMPACTED TO MINIMUM 95% STANDARD PROCTOR DENSITY AT 2%± OPTIMUM MOISTURE CONTENT. MATERIALS UNDER PAVING, CONCRETE, STRUCTURES, ETC. SHALL BE COMPACTED TO TO MIN 98%-100% STANDARD PROCTOR. MECHANICAL COMPACTION SHALL BE BY VIBRATORY SHEEPSFOOT OR OTHER EQUIP. SPECIFICALLY DESIGNED FOR THE COMPACTION OF EARTH. COMPACTION EQUIP. SHALL BE ON-SITE PRIOR TO BEGINNING OF WORK. MECHANICAL COMPACTION SHALL BE COMPLETED IN LOOSE LIFTS AS SHOWN ON THE DETAIL.
 4. TEMPORARY COMPACTED PUG-MIX BACKFILL REQ'D UNTIL PAVEMENT PLACEMENT IS COMPLETE. THE CONTRACTOR SHALL CONTINUOUSLY MAINTAIN THIS PUGMIX TO KEEP IT FLUSH WITH THE ADJACENT PAVING, ETC. UNTIL THE FINAL PAVING IS PLACED. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY ASPHALT OR CONCRETE PATCHES WHEN NEEDED FOR PUBLIC SAFETY AND/OR CONVENIENCE.
 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING AND UTILIZE APPROPRIATE MEANS AND METHODS OF CONSTRUCTION TO ENSURE THAT THE ENTIRE AREAS UNDER THE HAUNCHES OF THE PIPE ARE FILLED WITH THE REQUIRED MATERIALS AND COMPACTED APPROPRIATELY.
 6. ADDITIONAL AND/OR SPECIAL REQUIREMENTS MAY BE REQ'D BY THE PLANS, SPECIFICATIONS AND/OR CONTRACT DOCUMENTS.
 7. TO THE EXTENT POSSIBLE, AS DETERMINED BY THE CONTRACTOR, TRENCH WALL SHORING METHODS SHALL BE USED IN PAVED AREAS TO MINIMIZE PAVING REPAIR REQUIREMENTS.

MATERIAL DESIGNATION / DESCRIPTIONS TABLE	
DESIGNATION/MATERIALS	DESCRIPTION
1	CRUSHED STONE, ASTM-448 NO. 57 GRADATION
2	CRUSHED STONE, ASTM-448 NO. 67 GRADATION. SAND SHALL BE USED AS SUBSTITUTE IN RESIDENTIAL LAWNS, YARDS, AND LANDSCAPED AREAS.
3	SELECT EXCAVATED MATL REASONABLY DRY (WITHIN LIMITS REQ'D FOR COMPACTION) NO STONES > 1" DIA.
4	EXCAVATED MATL REASONABLY DRY (WITHIN LIMITS REQ'D FOR COMPACTION) NO STONES > 12" DIA.
5	SELECT TOPSOIL MATL TO SUPPORT VEGETATION, NO STONES OR ROCK ALLOWED
6	CRUSHED STONE, MOIST "PUG-MIX" PER ALDOT SECTION 825

4 BEDDING & BACKFILL FOR TRENCHES
95-C-01 SCALE: NOT TO SCALE



NO	DATE	DESCRIPTION	AS-BID	CONSTRUCTION REVISIONS	AS-BUILT

MADISON UTILITIES
MADISON, AL
WESTERN INTERCEPTOR
FROM MH-97 TO MH-127

TYPICAL DETAILS

BOX IS 2 IN WIDE AT FULL SCALE

JOB NO: MU-1930

DATE: MAY 2020

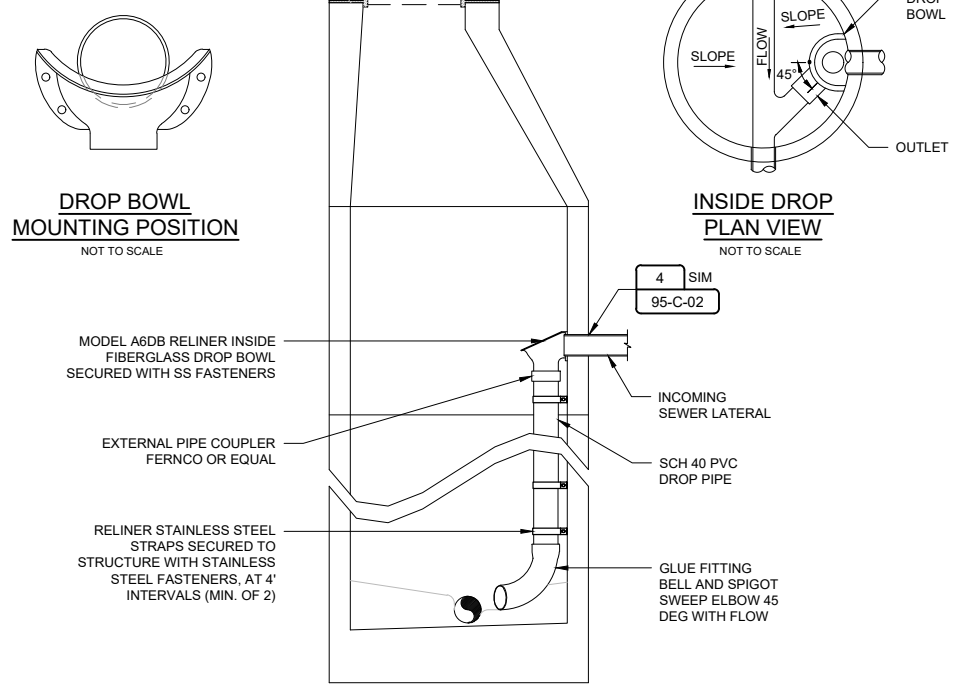
DESIGNED BY: CDS

DRAWN BY: JFL

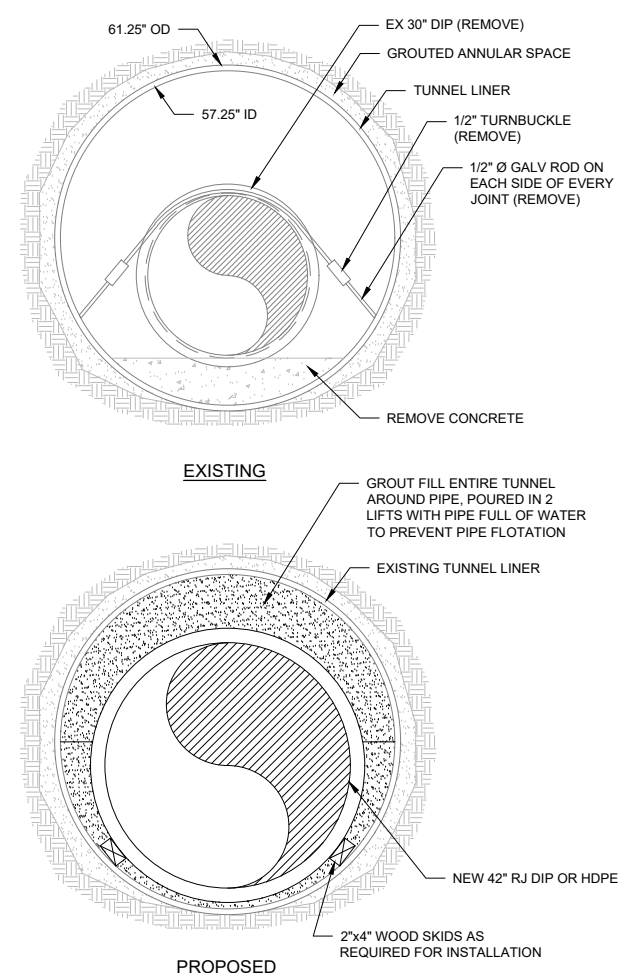
DWG: 95-C-01

SHEET NUMBER **21**

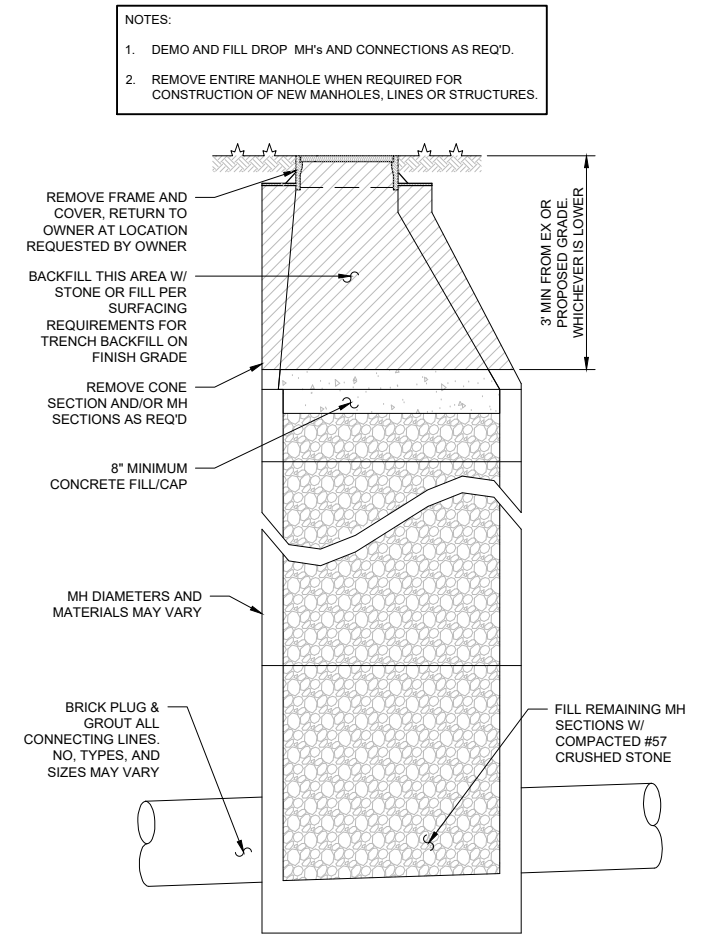
- NOTES:
1. ALL HARDWARE SHALL BE STAINLESS STEEL
 2. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
 3. SECURE DROP PIPE TO MANHOLE WITH RELINER-DURAN, INC STAINLESS STEEL ADJUSTABLE CLAMPING BRACKETS.



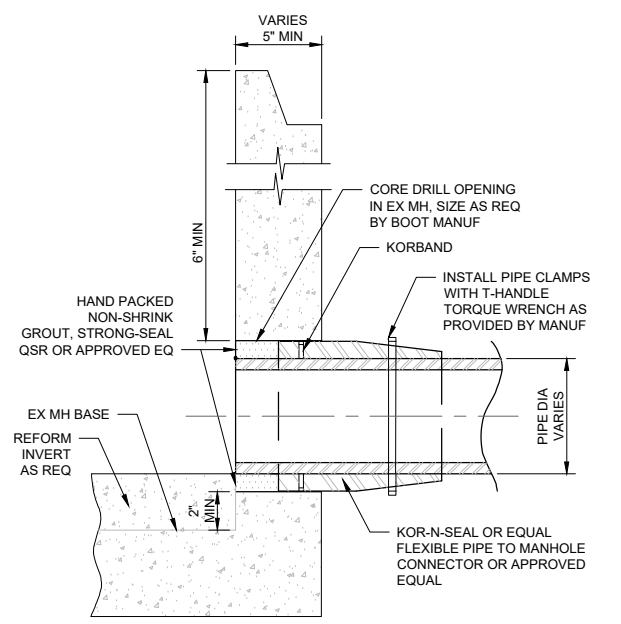
1 INSIDE DROP MANHOLE
95-C-02 SCALE: NOT TO SCALE



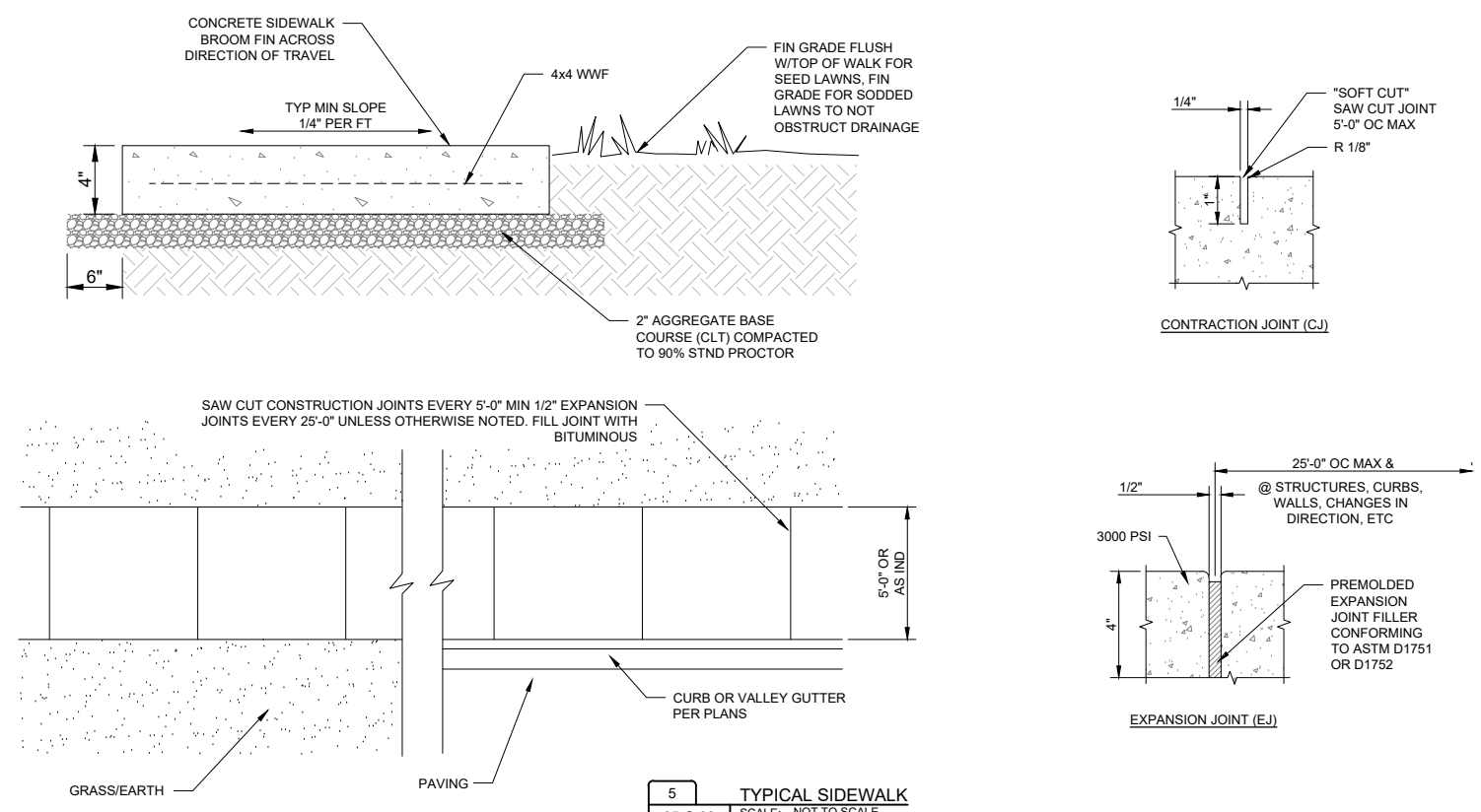
2 TUNNEL LINER DETAIL
95-C-02 SCALE: NOT TO SCALE



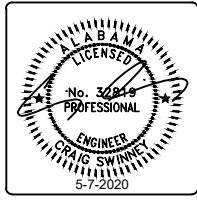
3 TYPICAL DETAIL FOR DEMOLITION OF EX MH'S ALONG ABANDONED SEWER SECTIONS
95-C-02 SCALE: NOT TO SCALE



4 FLEXIBLE PIPE-TO-MANHOLE CONNECTOR
95-C-02 SCALE: NOT TO SCALE



5 TYPICAL SIDEWALK
95-C-02 SCALE: NOT TO SCALE



NO	DATE	DESCRIPTION	FOR REVIEW AND COMMENT	AS-BID	CONSTRUCTION REVISIONS	AS-BUILT
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

MADISON UTILITIES
MADISON, AL
WESTERN INTERCEPTOR
FROM MH-97 TO MH-127

TYPICAL DETAILS

BOX IS 2 IN WIDE AT FULL SCALE

JOB NO: MU-1930

DATE: MAY 2020

DESIGNED BY: CDS

DRAWN BY: JFL

DWG: 95-C-02

SHEET NUMBER **22**