

LEGEND

PROPOSED SEWER LINE
PERMANENT SAN SEWER ESMT
TEMPORARY CONSTRUCTION ESMT
EXISTING 42" SANITARY SEWER
EXISTING 8" SANITARY SEWER
PARCEL BOUNDARY LINE
EXISTING ESMT
LIMITS OF 100 YEAR FEMA FLOODPLAIN
LIMITS OF 10 YEAR FEMA FLOODPLAIN
EXISTING OVERHEAD ELECTRIC
EXIST UNDERGROUND FIBER OPTIC

______ 18"SS _______ 18"SS _____

This document is

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REVIEW purposes

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authorization of

#96532 on 10/22/21

This document is not

to be used for

CONSTRUCTION.

Jason Diamond, P.

EXISTING HERITAGE TREE TO REMAIN

EXISTING HERITAGE TREE TO BE REMOVED

EXISTING MAJOR CONTOUR

EXISTING MINOR CONTOUR

EXISTING BARB WIRE FENCE

EXISTING GUARD RAIL



QUANTITY TABLE					
ITEM NO	ITEM DESCRIPTION	UNIT	QUANTITY		
550	TRENCH EXCAVATION PROTECTION	LF	964		
852A	TEE BASE FIBERGLASS MANHOLE, MITER	EA	3		
852A	VENTED TEE BASE FIBERGLASS MANHOLE	EA	1		
852A	EXTRA DEPTH TEE BASE MANHOLE	VF	46		
857	36" FRP (ASTM D-3262)(SN 72) (OPEN CUT 20'-25')	LF	34		
857	30" FRP (ASTM D-3262)(SN 72) (OPEN CUT 10'-15')	LF	150		
857	30" FRP (ASTM D-3262)(SN 72) (OPEN CUT 15'-20')	LF	755		
857	30" FRP (ASTM D-3262)(SN 72) (OPEN CUT 20'-25')	LF	25		
866	SEWER MAIN TV INSPECTION, POST (ALL SIZES)	LF	964		

CAUTION UNDERGROUND UTILITIES

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITED TO: WATER, SEWER, TELEPHONE, AND FIBER OPTIC LINES, SITE LIGHTING ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRICAL DUCT BANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. CONTRACTOR MUST CONTACT 1-800-DIG-TESS AND CALL APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION AND/OR START OF CONSTRUCTION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES (WHETHER SHOWN ON PLANS OR NOT) WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE A CONTRACTORS SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

COMPACTION NOTE

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING 98% COMPACTION ON ALL TRENCH BACKFILL AND PAYING FOR THE TESTS TO BE PERFORMED BY A THIRD PARTY. COMPACTION TEST WILL BE DONE AT A LOCATION POINT RANDOMLY SELECTED OR AS INDICATED BY THE SAWS INSPECTOR/ TEST ADMINISTRATOR, PER EACH 12-INCH LOOSE LIFT PER 400 FEET AT A MINIMUM. THIS PROJECT WILL NOT BE ACCEPTED AND FINALIZED BY SAWS WITHOUT THE REQUIREMENT BEING MET AND VERIFIED BY PROVING ALL NECESSARY DOCUMENTED TEST RESULTS.

TRENCH EXCAVATION SAFETY PROTECTION

CONTRACTOR AND/ OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/ EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

SEWER: EAST WATERSHED - DOS RIOS W.R.C. SAWS E-54 SANITARY SEWER PROJECT

SAWS JOB NO. 21-4404

JOB NO. 11500-51

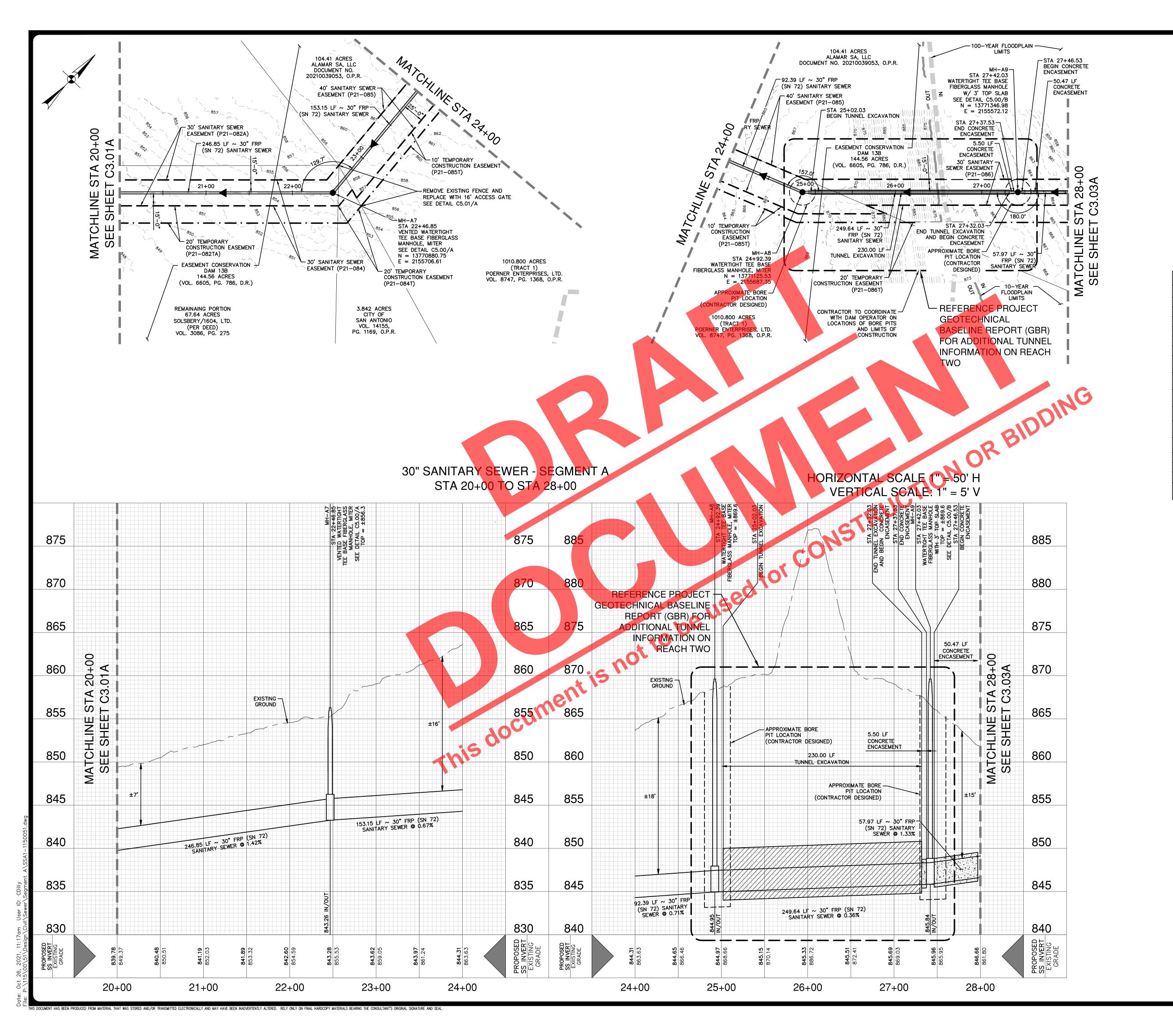
DATE OCTOBER 2021

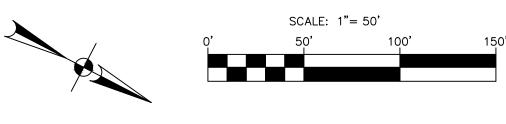
DESIGNER CD

SEGMENT A & FORCE MAIN BEXAR COUNTY, TEXAS GMENT A PLAN AND PROFILE S STA 0+00 TO STA 10+00

_{неет} <u>С3.00А</u>

CHECKED MP DRAWN BS





LEGEND

PROPOSED SEWER LINE PERMANENT SAN SEWER ESMT TEMPORARY CONSTRUCTION ESMI PARCEL BOUNDARY LINE

LIMITS OF 100 YEAR FEMA FLOODPL LIMITS OF 10 YEAR FEMA FLOODPLA EXISTING MAJOR CONTOUR

EXISTING HERITAGE TREE TO REMAIN

EXISTING HERITAGE TREE TO BE

REMOVED

EXISTING MINOR CONTOUR

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QUANTITY TABLE

ITEM NO	ITEM DESCRIPTION	UNIT	QUANTITY
507	FENCE GATE 16' TYPE 1	EA	1
508	REMOVE AND REPLACE EXISTING FENCING	LF	50
550	TRENCH EXCAVATION PROTECTION	LF	570
852	TEE BASE FIBERGLASS MANHOLE, MITER	EA	2
852A	VENTED TEE BASE FIBERGLASS MANHOLE	EA	1
852A	EXTRA DEPTH TEE BASE MANHOLE	VF	44
857	30" FRP (ASTM D-3262)(SN 72) (OPEN CUT 10'-15')	LF	290
857	30" FRP (ASTM D-3262)(SN 72) (OPEN CUT 15'-20')	LF	180
857	30" FRP (ASTM D-3262)(SN 72) (OPEN CUT 20'-25')	LF	100
858	CLASS B - 2,000 PSI CONCRETE ENCASEMENT	CY	37
02300-B	TUNNEL EXCAVATION AND PRIMARY LINER REACH 2	LF	230
02420-B	INSTALLATION OF 72" STEEL CARRIER PIPE IN REACH 2	LF	230
02360-D	REACH 2 ACCESS SHAFT	LS	1
02360-E	REACH 2 RECOVERY SHAFT	LS	1
02420-D	FINAL QA/QC SURVEY	LS	1
866	SEWER MAIN TV INSPECTION, POST (ALL SIZES)	LF	800

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SEWER: EAST WATERSHED - DOS RIOS W.R.C. SAWS E-54 SANITARY SEWER PROJECT

Developer's Name: D.R. HORTON Address: 211 NORTH LOOP 1604, SUITE 130 _State:<u>TEXAS</u> Phone#<u>(210)496-2668</u> FAX<u>#_N/A</u> 184646.184648.184650.186642.186644.186646 SAWS Block Map# 186650,186652,186654,186656,188656,190656 Total Acreage 22.74

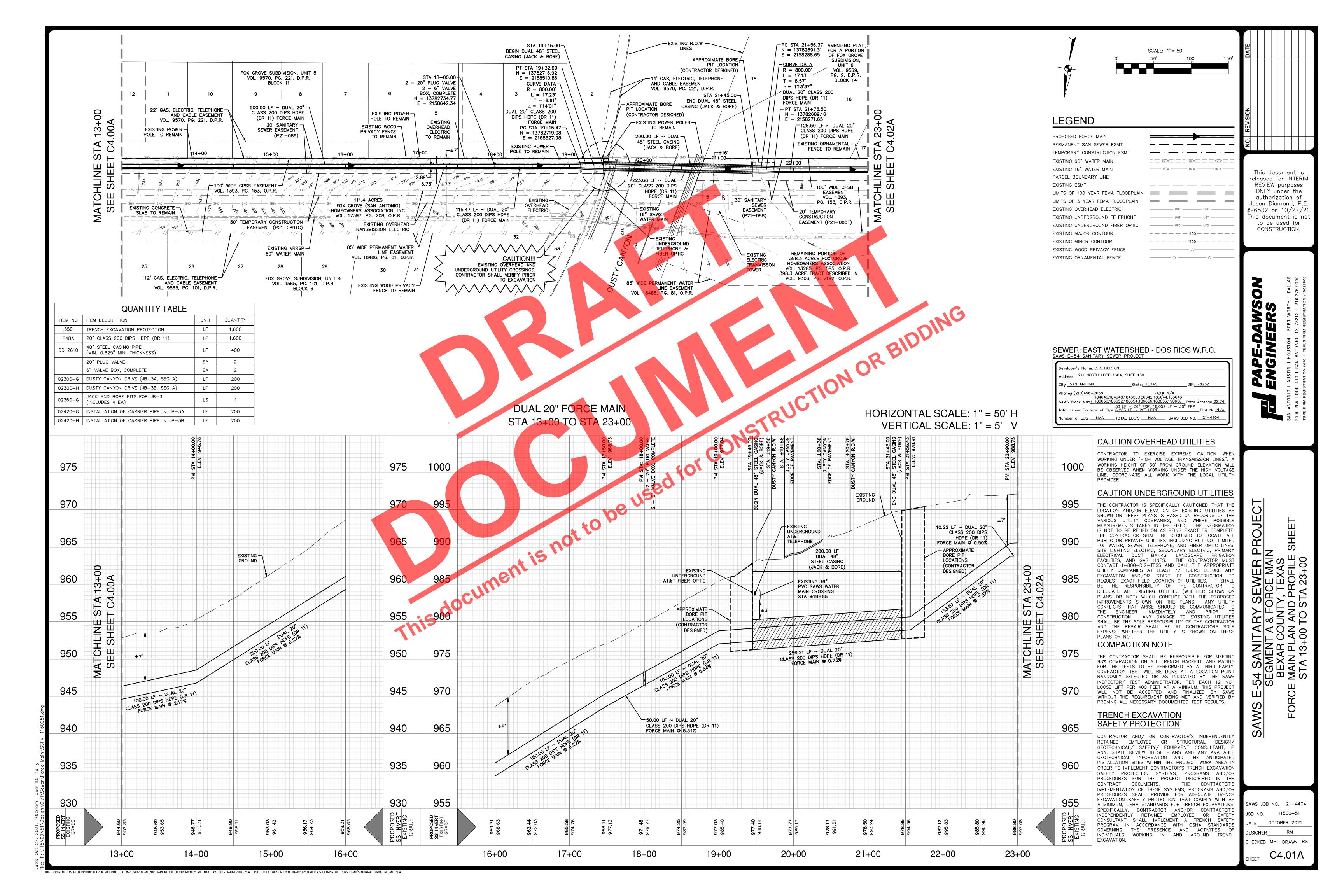
33 LF ~ 36" FRP, 16,052 LF ~ 30" FRP Total Linear Footage of Pipe <u>6,263 LF ~ 20" HDPE</u>

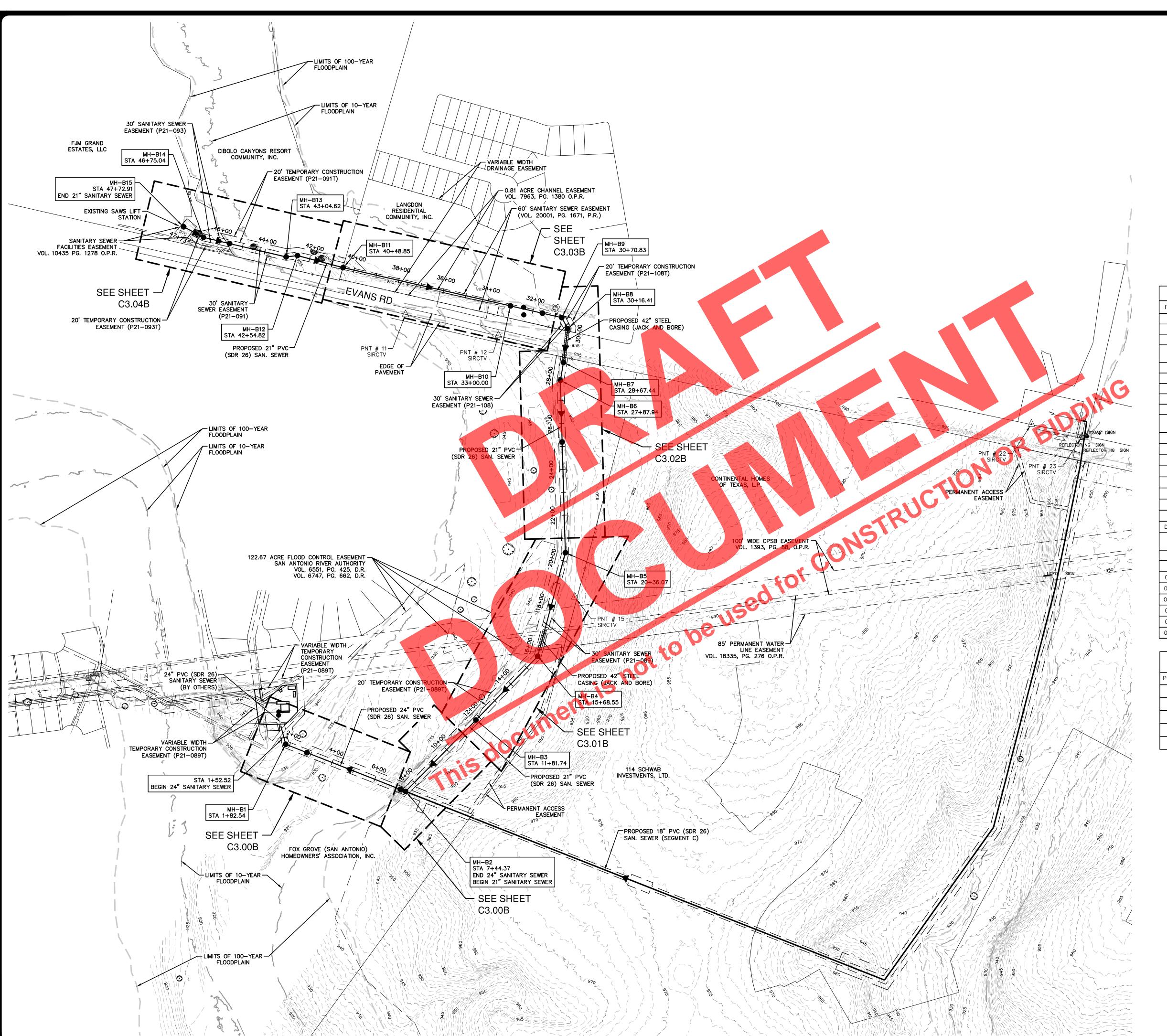
AWS JOB NO. 21-4404 11500-51 TE OCTOBER 2021 CD ESIGNER

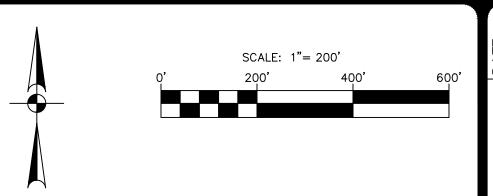
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SEGMENT A & FORCE MAIN BEXAR COUNTY, TEXAS GMENT A PLAN AND PROFILE S STA 20+00 TO STA 28+00

CHECKED MP DRAWN BS







LEGEND

EXISTING CONTOUR

PROPOSED SEWER LINE PROP STEEL CASING EXISTING SEWER LINE PARCEL BOUNDARY LINE PERMANENT SAN SEWER ESMT TEMPORARY CONSTRUCTION ESMI LIMITS OF 100 YEAR FEMA FLOODPLA

LIMITS OF 5 YEAR FEMA FLOODPLAIN

-----1100

EXISTING HERITAGE TREE TO REMAIN

EXISTING HERITAGE TREE TO BE REMOVED

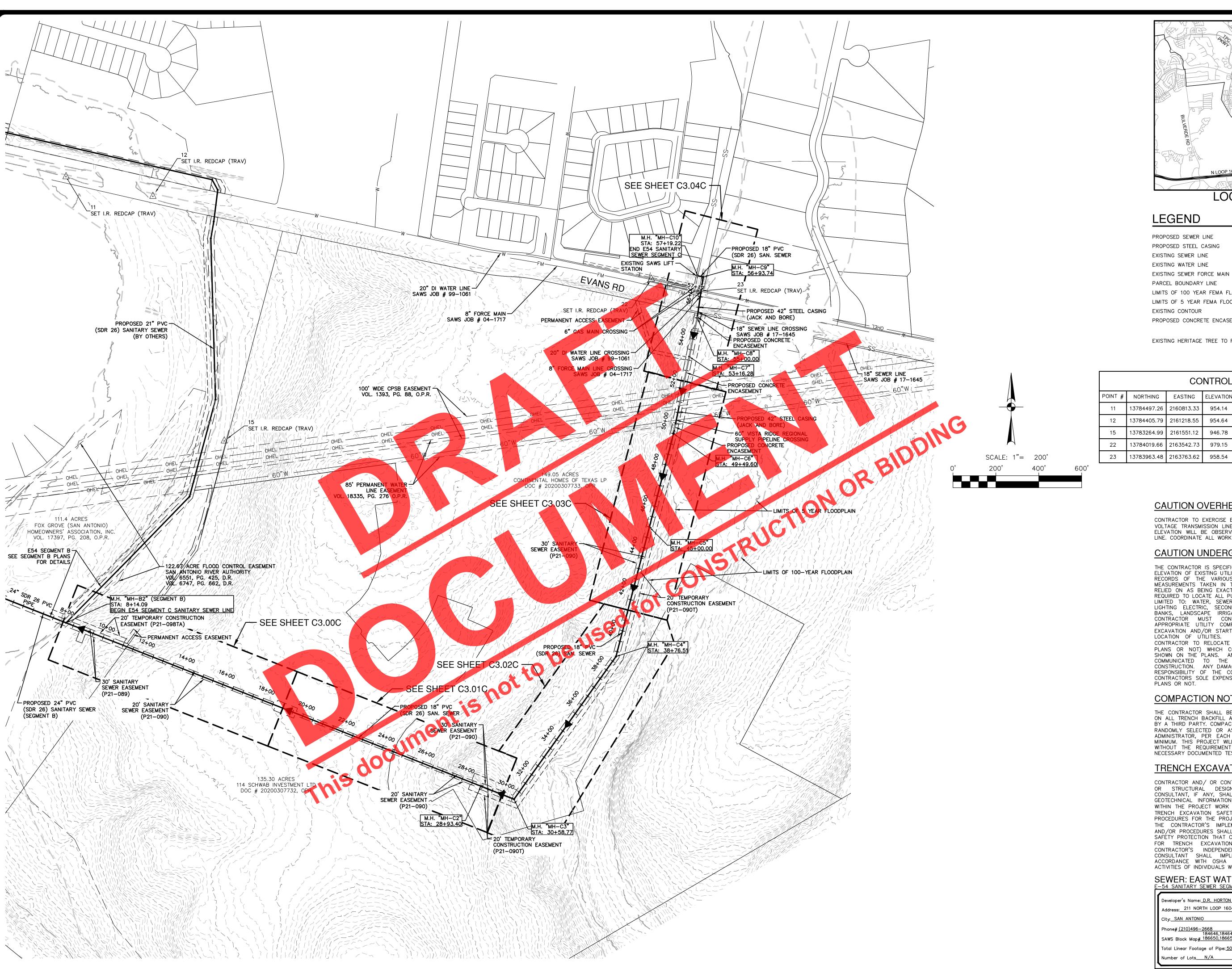


505 507	ITEM DESCRIPTION	UNIT	OLIANTITY
			QUANTITY
507	RIP RAP 24-INCHES THICK	CY	22
	FENCE GATE 16' TYPE 1	EA	1
508	REMOVE AND REPLACE EXISTING FENCING	LF	50
540	TEMPORARY EROSION, SEDIMENTATION AND WATER POLLUTION PREVENTION AND CONTROL	LS	1
550	TRENCH EXCAVATION PROTECTION	LF	4,451
850	DOGHOUSE MANHOLE STRUCTURE	EA	1
852	4' DIA. FRP SANITARY SEWER MANHOLE	EA	10
852A	EXTRA DEPTH MANHOLE	VF	140
852A	VENTED 4' DIA. FRP SANITARY SEWER MANHOLE	EA	4
852	TESTING AND ACCEPTANCE OF SANITARY SEWER MANHOLES (ALL TYPES)	LS	1
848A	24" PVC SDR 26 (OPEN CUT 5'-10')	LF	33
848A	24" PVC SDR 26 (OPEN CUT 10'-15')	LF	340
848A	24" PVC SDR 26 (OPEN CUT 15'-20')	LF	154
848A	24" PVC SDR 26 (OPEN CUT 20'-25')	LF	118
848A	21" PVC SDR 26 (OPEN CUT 5'-10')	LF	677
848A	21" PVC SDR 26 (OPEN CUT 10'-15')	LF	2,196
848A	21" PVC SDR 26 (OPEN CUT 15'-20')	LF	832
848A	21" PVC SDR 26 (OPEN CUT 20'-25')	LF	101
DD 2610	42" STEEL CASING PIPE (MIN. 0.625" MIN. THICKNESS)	LF	222
857	TESTING AND ACCEPTANCE OF FRP GRAVITY SEWER (ALL SIZES AND DEPTHS)	LS	1
858	CLASS B - 2,000 PSI CONCRETE ENCASEMENT	CY	871
866	SEWER MAIN TV INSPECTION, POST (ALL SIZES)	LF	4,451
02300-1	VISTA RIDGE PIPELINE (JB-4, SEG B)	LF	93
02300-J	EVANS ROAD (JB-5, SEG B)	LF	129
02360-H	JACK AND BORE PITS FOR JB-4 (INCLUDES 2 EA)	LS	1
02360-1	JACK AND BORE PITS FOR JB-5 (INCLUDES 2 EA)	LS	1
02420-1	INSTALLATION OF CARRIER PIPE IN JB-4	LF	93
02420-J	INSTALLATION OF CARRIER PIPE IN JB-5	LF	129

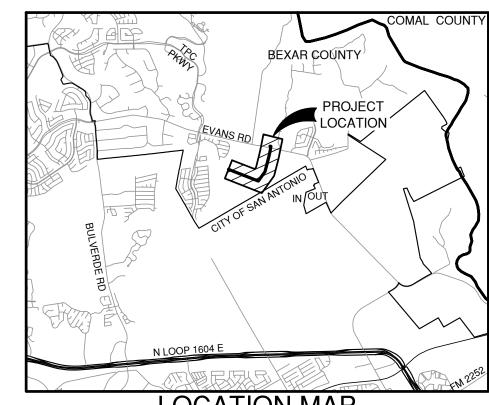
	CONTROL POINTS						
POINT #	NORTHING	EASTING	ELEVATION	RAW DESCRIPTION	FULL DESCRIPTION		
11	13784497.26	2160813.33	954.14	SIRCTV	SET I.R. REDCAP (TRAV)		
12	13784405.79	2161218.55	954.64	SIRCTV	SET I.R. REDCAP (TRAV)		
15	13783264.99	2161551.12	946.78	SIRCTV	SET I.R. REDCAP (TRAV)		
22	13784019.66	2163542.73	979.15	SIRCTV	SET I.R. REDCAP (TRAV)		
23	13783963.48	2163763.62	958.54	SIRCTV	SET I.R. REDCAP (TRAV)		

SAWS JOB NO. __21-4404 JOB NO. ____ 11500-51 DATE OCTOBER 2021 DESIGNER___ CHECKED JD DRAWN BS

SHEET _ C2.00B



OCUMENT HAS BEEN PRODUCED FROM MATERIAL THAT WAS STORED AND/OR TRANSMITTED ELECTRONICALLY AND MAY HAVE BEEN INADVERTENTLY ALTERED. RELY ONLY ON FINAL HARDCOPY MATERIALS BEARING THE CONSULTANT'S ORIGINAL SIGNATURE AND SEAL.



LOCATION MAP

PROPOSED SEWER LINE PROPOSED STEEL CASING EXISTING SEWER LINE EXISTING WATER LINE EXISTING SEWER FORCE MAIN LIN PARCEL BOUNDARY LINE

LIMITS OF 100 YEAR FEMA FLOODPLA LIMITS OF 5 YEAR FEMA FLOODPLAIN EXISTING CONTOUR PROPOSED CONCRETE ENCASEMENT

EXISTING HERITAGE TREE TO REMAIN

CONTROL POINTS						
POINT #	NORTHING	EASTING	ELEVATION	RAW DESCRIPTION	FULL DESCRIPTION	
11	13784497.26	2160813.33	954.14	SIRCTV	SET I.R. REDCAP (TRAV)	
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22	13784019.66	2163542.73	979.15	SIRCTV	SET I.R. REDCAP (TRAV)	

CAUTION OVERHEAD UTILITIES

CONTRACTOR TO EXERCISE EXTREME CAUTION WHEN WORKING UNDER "HIGH VOLTAGE TRANSMISSION LINES". A WORKING HEIGHT OF 30' FROM GROUND ELEVATION WILL BE OBSERVED WHEN WORKING UNDER THE HIGH VOLTAGE LINE. COORDINATE ALL WORK WITH THE LOCAL UTILITY PROVIDER.

SIRCTV

SET I.R. REDCAP (TRAV)

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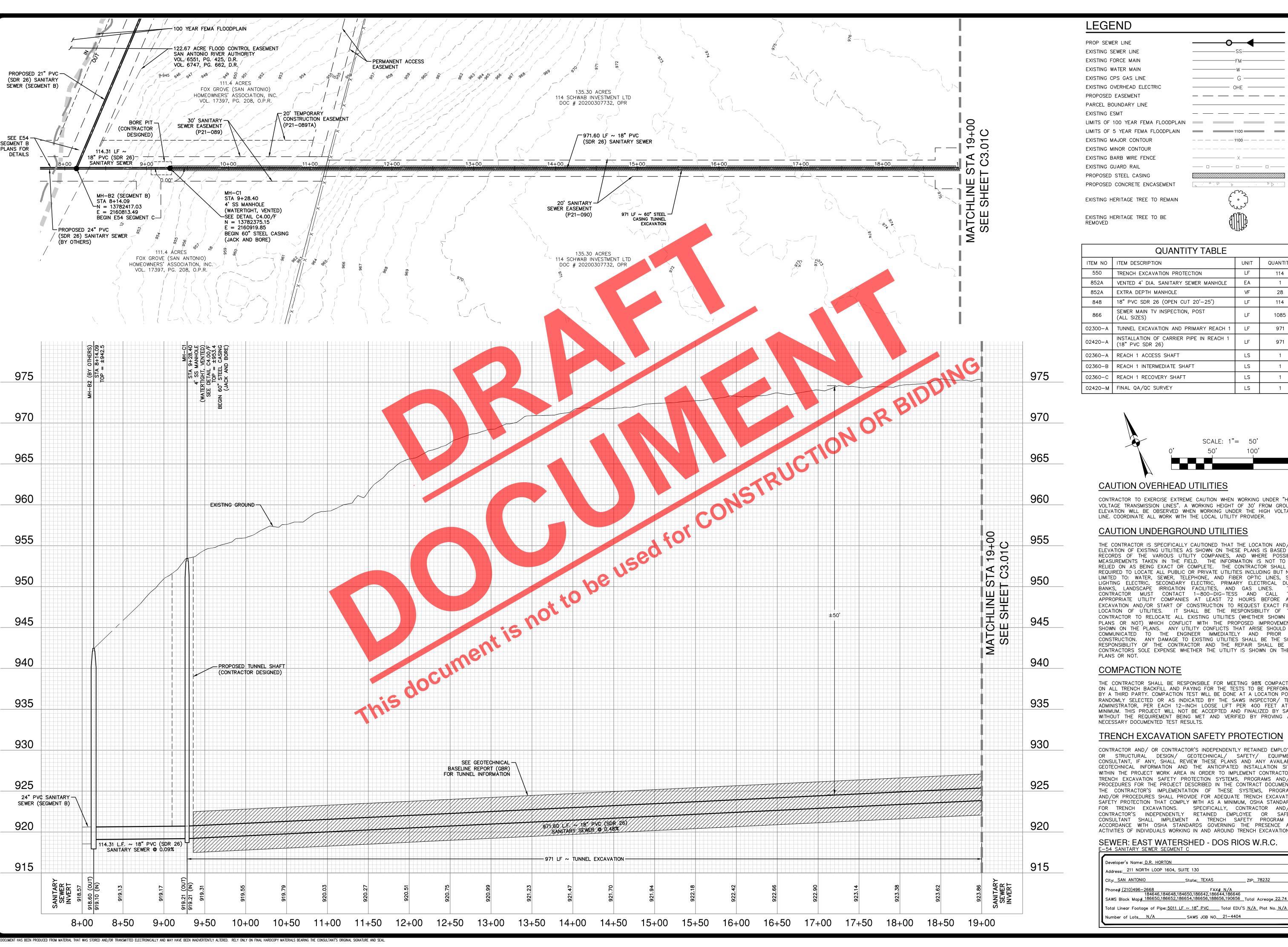
SEWER: EAST WATERSHED - DOS RIOS W.R.C. E-54 SANITARY SEWER SEGMENT C

Developer's Nar	ne: <u>D.R. HORTON</u>			
Address: 211 N	NORTH LOOP 1604,	SUITE 130		
City: SAN ANTO		State:	ZIP:	78232
, <u> </u>	06-2668			

184646,184648,184650,186642,1866⁴44,186646 SAWS Block Map<u># 186650,186652,186654,186656,188656,190656</u> Total Acreage <u>22.74</u> Total Linear Footage of Pipe:<u>5011 LF ~ 18" PVC</u> Total EDU'S <u>N/A</u> Plat No.<u>N/A</u> Number of Lots<u>N/A</u> SAWS JOB NO<u>21-4404</u>

SAWS JOB NO. 21-4404 11500-51 OCTOBER 2021 DESIGNER CHECKED JD DRAWN EP

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PROP SEWER LINE EXISTING SEWER LINE EXISTING FORCE MAIN EXISTING WATER MAIN EXISTING CPS GAS LINE EXISTING OVERHEAD ELECTRIC PROPOSED EASEMENT PARCEL BOUNDARY LINE LIMITS OF 100 YEAR FEMA FLOODPLAIN LIMITS OF 5 YEAR FEMA FLOODPLAIN EXISTING MAJOR CONTOUR EXISTING MINOR CONTOUR EXISTING BARB WIRE FENCE EXISTING GUARD RAIL PROPOSED STEEL CASING Δ. Δ. PROPOSED CONCRETE ENCASEMENT

EXISTING HERITAGE TREE TO REMAIN

EXISTING HERITAGE TREE TO BE

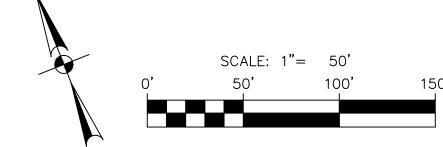
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550	TRENCH EXCAVATION PROTECTION	LF	114
852A	VENTED 4' DIA. SANITARY SEWER MANHOLE	EA	1
852A	EXTRA DEPTH MANHOLE	VF	28
848	18" PVC SDR 26 (OPEN CUT 20'-25')	LF	114
866	SEWER MAIN TV INSPECTION, POST (ALL SIZES)	LF	1085
02300-A	TUNNEL EXCAVATION AND PRIMARY REACH 1	LF	971
02420-A	INSTALLATION OF CARRIER PIPE IN REACH 1 (18" PVC SDR 26)	LF	971
02360-A	REACH 1 ACCESS SHAFT	LS	1
02360-B	REACH 1 INTERMEDIATE SHAFT	LS	1
02360-C	REACH 1 RECOVERY SHAFT	LS	1
02420-M	FINAL QA/QC SURVEY	LS	1



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TRENCH EXCAVATION SAFETY PROTECTION

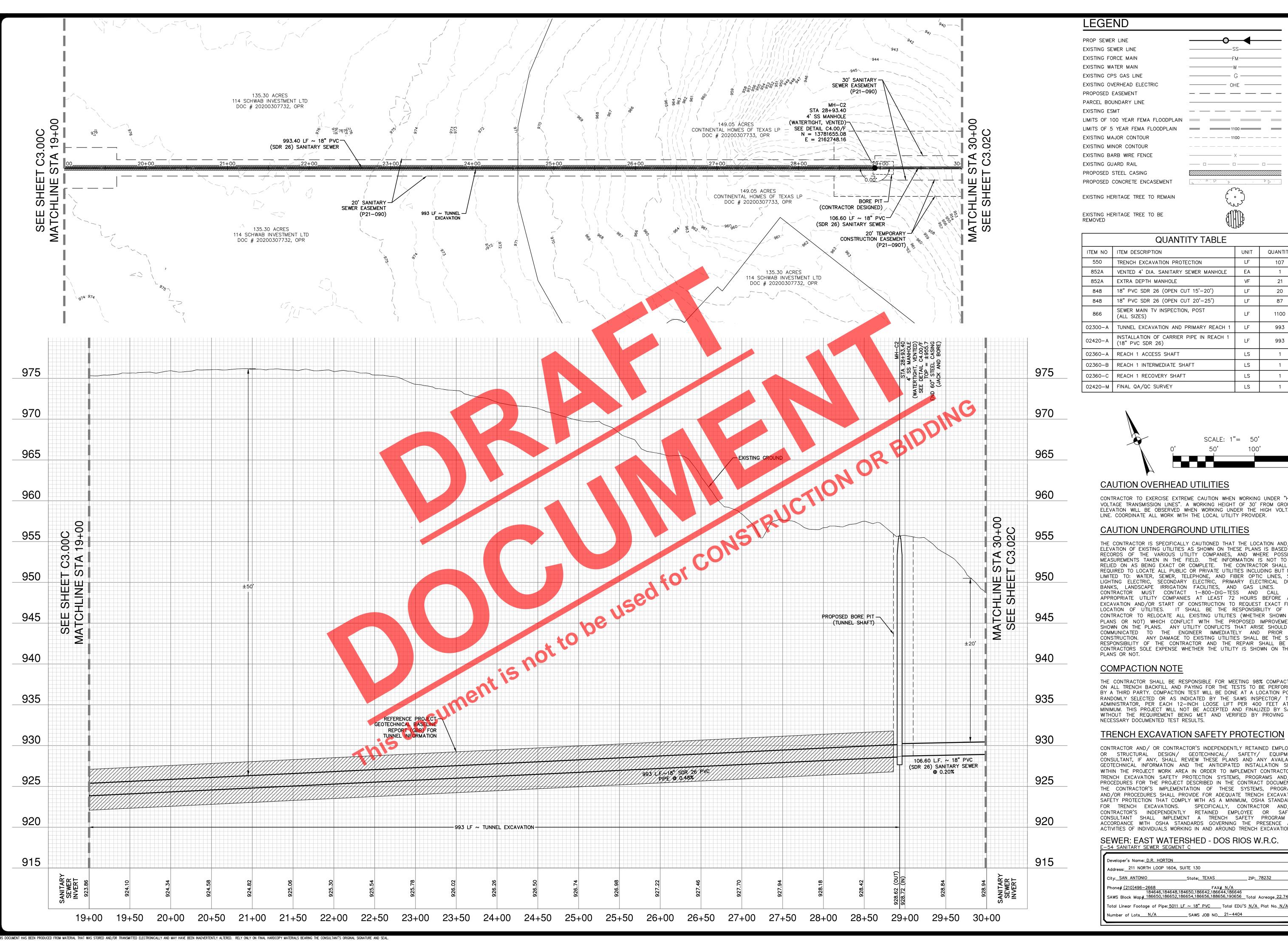
CONTRACTOR AND/ OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/ EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFÉTY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

SEWER: EAST WATERSHED - DOS RIOS W.R.C. E-54 SANITARY SEWER SEGMENT C

Developer's Name: D.R. HORTON
Address: 211 NORTH LOOP 1604, SUITE 130
Address:
City: SAN ANTONIO State: TEXAS ZIP: 78232
Phone# <u>(210)496-2668</u> FAX# <u>N/A</u> 184646,184648,184650,186642,186644,186646 SAWS Block Map# <u>186650,186652,186654,186656,188656,190656</u> Total Acreage <u>22.74</u>

__SAWS JOB NO.__21-4404

AWS JOB NO. 21-4404 11500-51 OCTOBER 2021 ESIGNER MP CHECKED JD DRAWN EF C3.00C



LIMITS OF 100 YEAR FEMA FLOODPLAIN This document is released for INTERIM REVIEW purposes ONLY under the authorization of

Jason Diamond, P.

#96532 on 10/26/21

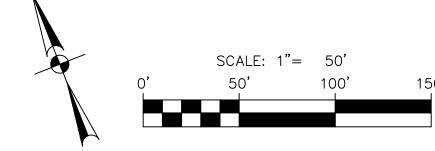
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to be used for

CONSTRUCTION.

EXISTING HERITAGE TREE TO BE

	QUANTITY TABLE		
ITEM NO	ITEM DESCRIPTION	UNIT	QUANTITY
550	TRENCH EXCAVATION PROTECTION	LF	107
852A	VENTED 4' DIA. SANITARY SEWER MANHOLE	EA	1
852A	EXTRA DEPTH MANHOLE	VF	21
848	18" PVC SDR 26 (OPEN CUT 15'-20')	LF	20
848	18" PVC SDR 26 (OPEN CUT 20'-25')	LF	87
866	SEWER MAIN TV INSPECTION, POST (ALL SIZES)	LF	1100
02300-A	TUNNEL EXCAVATION AND PRIMARY REACH 1	LF	993
02420-A	INSTALLATION OF CARRIER PIPE IN REACH 1 (18" PVC SDR 26)	LF	993
02360-A	REACH 1 ACCESS SHAFT	LS	1
02360-B	REACH 1 INTERMEDIATE SHAFT	LS	1
02360-C	REACH 1 RECOVERY SHAFT	LS	1
02420-M	FINAL QA/QC SURVEY	LS	1



CAUTION OVERHEAD UTILITIES

CONTRACTOR TO EXERCISE EXTREME CAUTION WHEN WORKING UNDER "HIGH VOLTAGE TRANSMISSION LINES". A WORKING HEIGHT OF 30' FROM GROUND ELEVATION WILL BE OBSERVED WHEN WORKING UNDER THE HIGH VOLTAGE LINE. COORDINATE ALL WORK WITH THE LOCAL UTILITY PROVIDER.

CAUTION UNDERGROUND UTILITIES

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITED TO: WATER, SEWER, TELEPHONE, AND FIBER OPTIC LINES, SITE LIGHTING ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRICAL DUCT BANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES.
CONTRACTOR MUST CONTACT 1-800-DIG-TESS AND CALL APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION AND/OR START OF CONSTRUCTION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES (WHETHER SHOWN ON PLANS OR NOT) WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTORS SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE

COMPACTION NOTE

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING 98% COMPACTION ON ALL TRENCH BACKFILL AND PAYING FOR THE TESTS TO BE PERFORMED BY A THIRD PARTY. COMPACTION TEST WILL BE DONE AT A LOCATION POINT RANDOMLY SELECTED OR AS INDICATED BY THE SAWS INSPECTOR/ TEST ADMINISTRATOR, PER EACH 12-INCH LOOSE LIFT PER 400 FEET AT A MINIMUM. THIS PROJECT WILL NOT BE ACCEPTED AND FINALIZED BY SAWS WITHOUT THE REQUIREMENT BEING MET AND VERIFIED BY PROVING ALL NECESSARY DOCUMENTED TEST RESULTS.

TRENCH EXCAVATION SAFETY PROTECTION

CONTRACTOR AND/ OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/ EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFÉTY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

SEWER: EAST WATERSHED - DOS RIOS W.R.C. E-54 SANITARY SEWER SEGMENT C

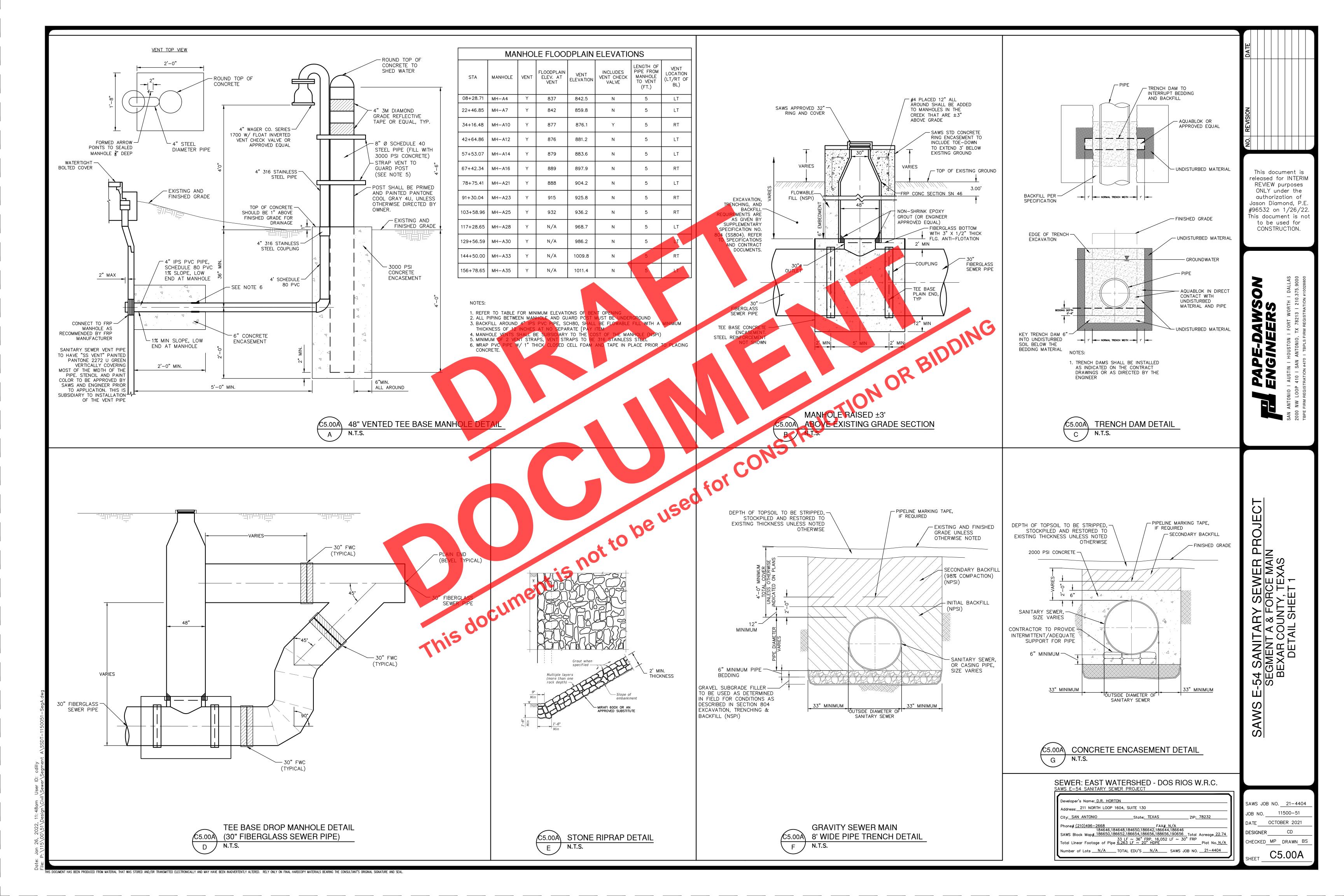
Developer's Name: D.R. HORTON Address: 211 NORTH LOOP 1604, SUITE 130 Phone# (210)496-2668 FAX# N/A 184646.184648.184650.186642.186644.186646 SAWS Block Map# 186650,186652,186654,186656,188656,190656 Total Acreage 22.74

_____SAWS JOB NO. 21-4404

SAWS JOB NO. 21-4404 11500-51 OCTOBER 2021 ESIGNER CHECKED JD DRAWN EF

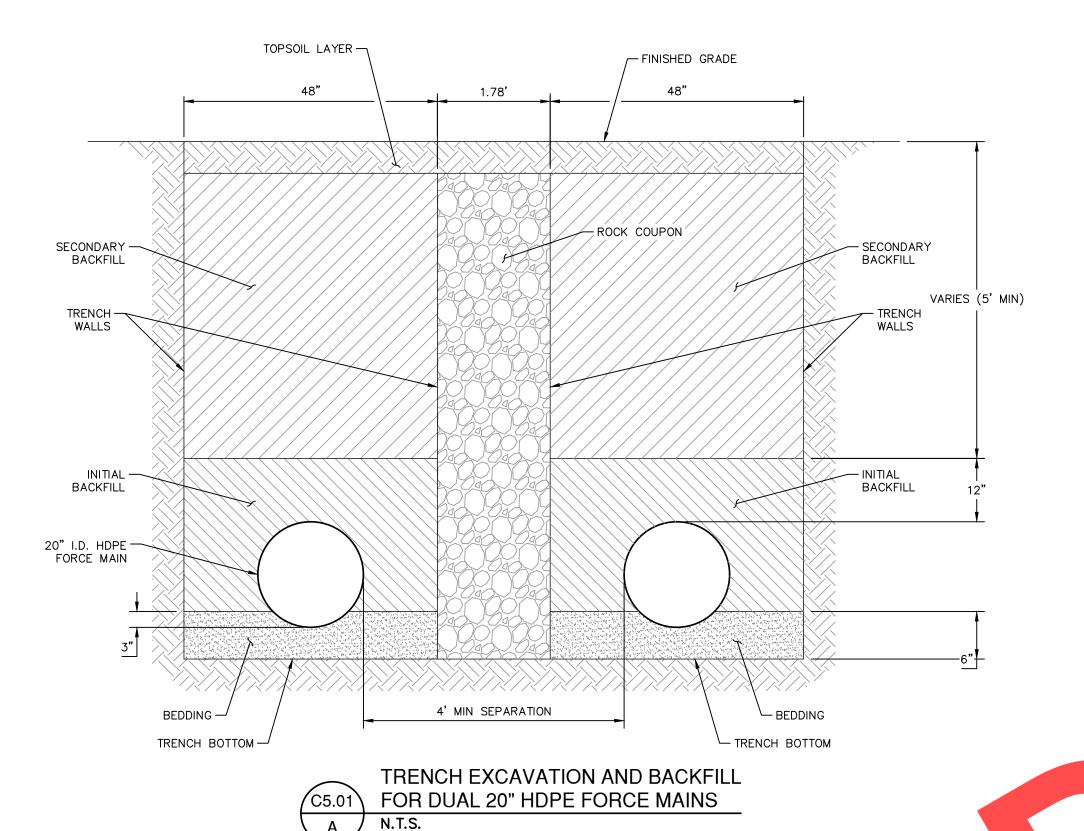
SANITARY S
BEXAR COUNTY,
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PLAN AND PROFILE
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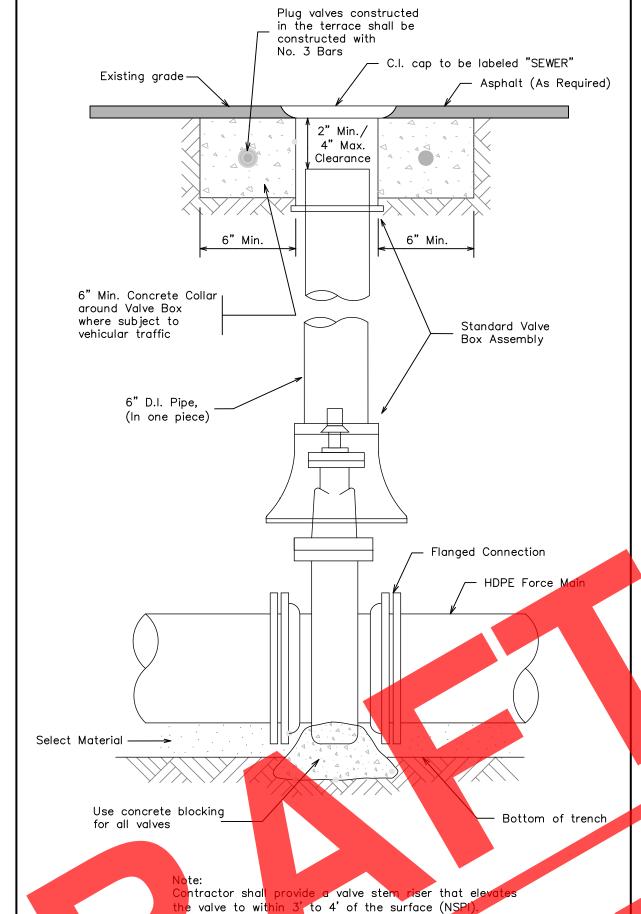
C3.01C



GENERAL NOTES

- 1. BEDDING LAYER: VARIABLE DEPTH OF BEDDING SHALL BE SEWER GRAVEL MATERIAL PER SAWS SPECIFICATION
- 2. INITIAL BÀCKFILL: VARIABLE DEPTH OF SEWER GRAVEL MATERIAL PLACED IN ACCORDANCE WITH SAWS SPECIFICATION
- 804.4.2.a(3). 3. SECONDARY BACKFILL: MATERIALS, AND PLACEMENT SHALL BE IN ACCORDANCE WITH SPECIFICATION 804.
- 4. ALL SECONDARY BACKFILL SHALL BE COMPACTED IN 12" LOOSE LIFTS (MAX) TO 98% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY TXDOT TEST METHOD TEX-113-E AT A MOISTURE CONTENT RANGE OF -2% TO +2% OF THE
- OPTIMUM DRY DENSITY MOISTURE CONTENT. 5. TOPSOIL LAYER (FOR AREAS THAT WILL NOT BE PAVED): ADD 4" OF TOP SOIL, WATER AND FERTILIZE AS REQUIRED TO REVEGETATE AND ESTABLISH GRASS.

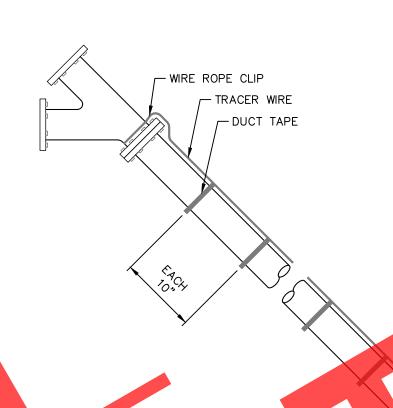




ALLATION OF BURIED PLUG VALVE 01 WITH VALVE BOX AND EXTENSION DET

TRACER WIRE NOTE

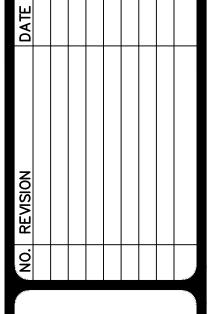
TRACER WIRE SHALL BE UTILIZED FOR LOCATION PURPOSES. TRACER WIRE SHALL BE OF SOLID CORE (14 GAUGE INSULATED) AND SHALL BE TAPED TO THE MAIN A MINIMUM OF 10" INCREMENTS. WIRE SHALL ALSO COME UP TO THE TOP OF AIR RELEASE, VACUUM VALVES, TOP OF GROUND AT LIFT STATION, AND AT THE MAIN DISCHARGE POINT.



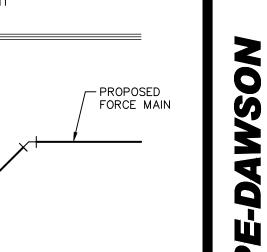
TRACER WIRE DETAIL

FORCE MAIN NOTES

- 1. ALL FORCE MAIN PIPE MATERIAL SHALL CONSIST OF HDPE UNLESS OTHERWISE SHOWN ON THE PLANS. PIPE SHALL CONSIST OF HDPE SOLID WALL REFERRED TO AS DRISCO 1000, DRISCO 8600, QUALI PIPE, POLY PIPE, AND PLEXO PIPE THAT IS IN COMPLIANCE WITH ASTM F714. ALL PIPE FITTINGS SHALL BE HIGH DENSITY POLYETHYLENE PIPE AND MADE OF VIRGIN MATERIAL, AND SHALL HAVE A MINIMUM WORKING PRESSURE RATING 200 PSI. THE PIPE MATERIAL SHALL BE MANUFACTURED FROM A HIGH DENSITY HIGH MOLECULAR WEIGHT POLYETHYLENE COMPOUND WHICH CONFORMS TO ASTM D 1248 AND MEETS THE REQUIREMENTS FOR TYPE III, CLASS C, GRADE P-34, CATEGORY 5, AND HAS A PPI RATING OF PE 3408. SOLID WALL PIPE SHALL BE PRODUCED WITH A PLAIN END CONSTRUCTION FOR HEAT-JOINING (BUTT FUSION) CONFORMING TO ASTM D 2657: NO FLANGED OR SLIP-ON JOINTS WILL BE ACCEPTED. SEE SAWS STANDARD SPECIFICATIONS FOR CONSTRUCTION, ITEM NO. 900: "RECONSTRUCTION OF SANITARY SEWER BY PIPE BURSTING/CRUSHING REPLACEMENT PROCESS", SECTION 900.2.1.
- 2. COLOR CODING OF FORCE MAIN PIPING METALLIC TAPE (6" WIDE MINIMUM) SHALL BE APPLIED TO ALL FORCE MAIN PIPE. THE METALLIC TAPE SHALL BE LABELED "SEWER PIPE". PIPE SHALL HAVE A MINIMUM OF THREE GREEN STRIPES POSITIONED IN SUCH A MANNER THAT THE STRIPE(S) ARE VISIBLE REGARDLESS OF THE ROTATION OF THE PIPE IN THE TRENCH.
- 3. ALL FORCE MAINS SHALL BE TESTED IN ACCORDANCE WITH 30 TAC 217.68 AT 50 PSI ABOVE THE NORMAL OPERATING PRESSURE OF THE FORCE MAIN.
- 4. MINIMIZE THE NUMBER OF PEAKS/VALLEYS ALONG THE FORCE MAIN PROFILE TO LIMIT THE ACCUMULATION OF GASES. ALL HIGH POINTS SHALL HAVE A 2" AIR AND VACUUM RELEASE VALVE RATED FOR RAW SEWAGE.



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* ALL FITTINGS SHALL BE FUSIBLE HDPE FITTINGS PRESSURE RATINGS OF ALL FITTINGS SHALL BE EQUAL TO OR GREATER THAN THE FORCE MAIN PIPING. THE CONTRACTOR MY ELECT TO BEND THE PIPE.

TYPICAL UTILITY CROSSING DETAIL

OR PAVEMENT _ EXISTING UTILITY — PROPOSED FORCE MAIN

— FINISHED GROUND

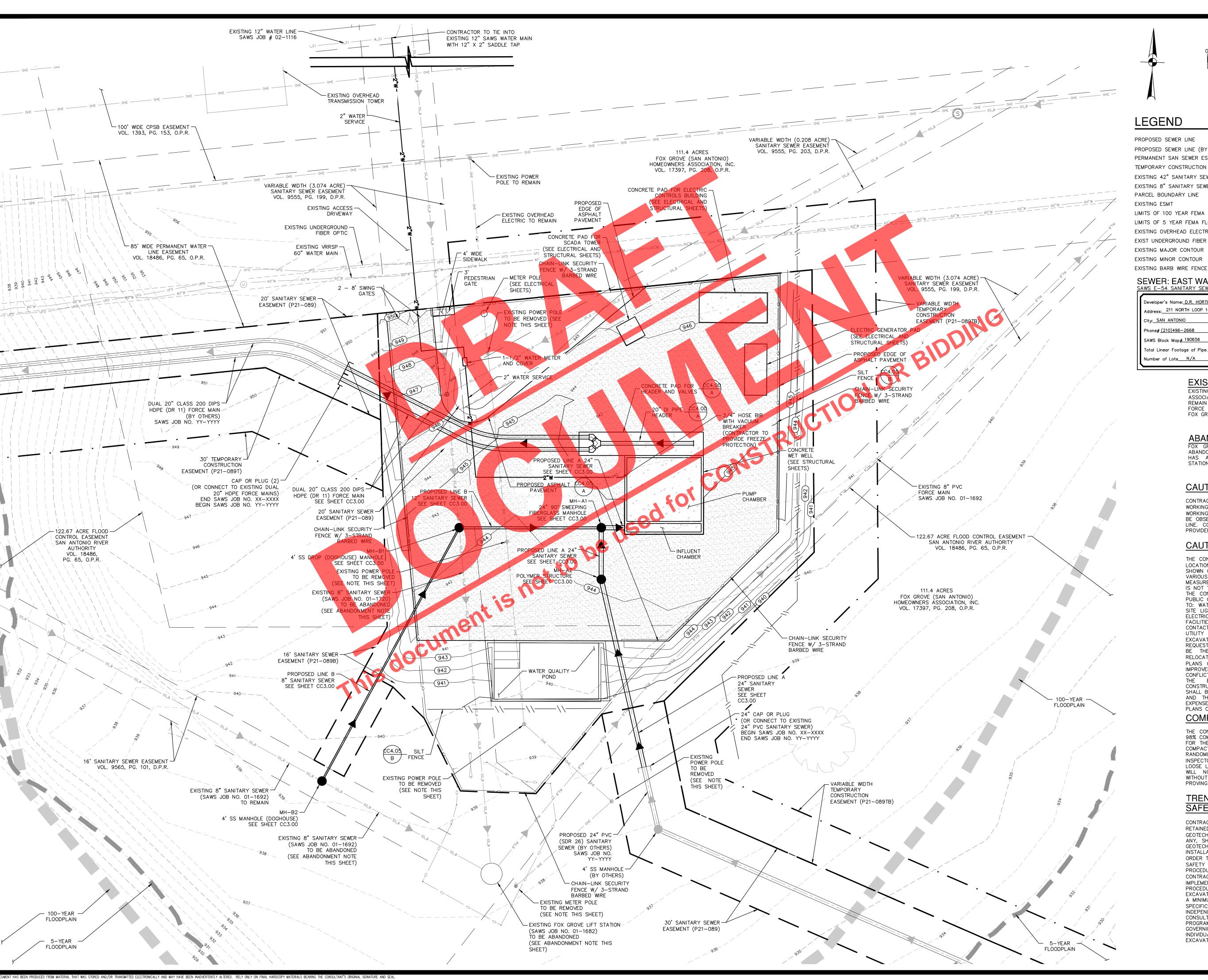
SEWER: EAST WATERSHED - DOS RIOS W.R.C. SAWS E-54 SANITARY SEWER PROJECT

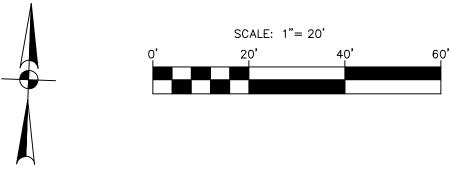
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184646,184648,184650,186642,186644,186646
SAWS Block Map# 186650,186652,186654,186656,190656 Total Acreage 22.74 33 LF ~ 36" FRP, 16,052 LF ~ 30" FRP
Total Linear Footage of Pipe 6,263 LF ~ 20" HDPE

SAWS JOB NO. 21-4404 11500-51 ATE OCTOBER 2021 DESIGNER CHECKED MP DRAWN BS

C5.01A

DOCUMENT HAS BEEN PRODUCED FROM MATERIAL THAT WAS STORED AND/OR TRANSMITTED ELECTRONICALLY AND MAY HAVE BEEN INADVERTENTLY ALTERED. RELY ONLY ON FINAL HARDCOPY MATERIALS BEARING THE CONSULTANT'S ORIGINAL SIGNATURE AND SEAL.



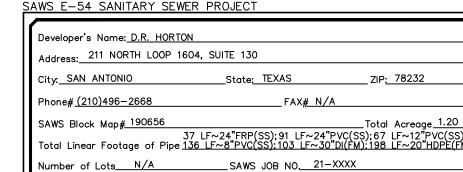


PROPOSED SEWER LINE PROPOSED SEWER LINE (BY OTHERS) PERMANENT SAN SEWER ESMT TEMPORARY CONSTRUCTION ESMT EXISTING 42" SANITARY SEWER EXISTING 8" SANITARY SEWER PARCEL BOUNDARY LINE

LIMITS OF 100 YEAR FEMA FLOODPLAIN LIMITS OF 5 YEAR FEMA FLOODPLAI EXISTING OVERHEAD ELECTRIC EXIST UNDERGROUND FIBER OPTIC

EXISTING MAJOR CONTOUR

SEWER: EAST WATERSHED - DOS RIOS W.R.C.



EXISTING POWER POLE NOTE

EXISTING POWER POLES NOTED FOR REMOVAL (AND ASSOCIATED OVERHEAD ELECTRIC POWER LINES) SHAL REMAIN IN PLACE UNTIL THE E-54 LIFT STATION AND FORCE MAIN HAS BEEN ACCEPTED BY SAWS AND THE FOX GROVE LIFT STATION IS DECOMMISSIONED.

ABANDONMENT NOTE

FOX GROVE LIFT STATION AND GRAVITY MAIN TO B ABANDONED SHALL REMAIN OPERATIONAL UNTIL SAWS HAS ACCEPTED CONSTRUCTION OF THE E-54 LIFT STATION AND FORCE MAIN.

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TRENCH EXCAVATION **SAFETY PROTECTION**

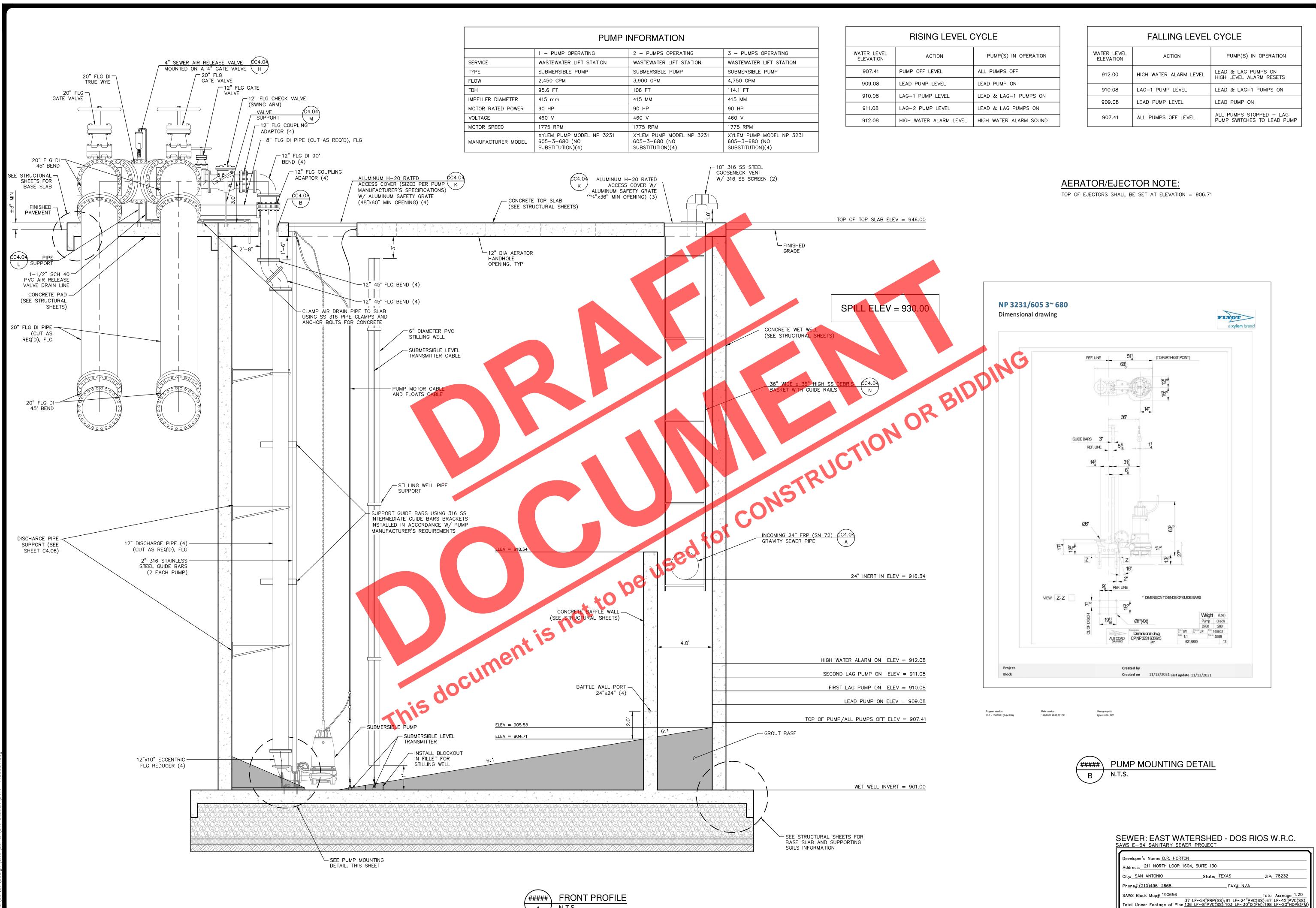
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CONSTRUCTION

SAWS JOB NO. 21-XXXX 11500-51 TE OCTOBER 2021

DESIGNER RM CHECKED KK DRAWN BS



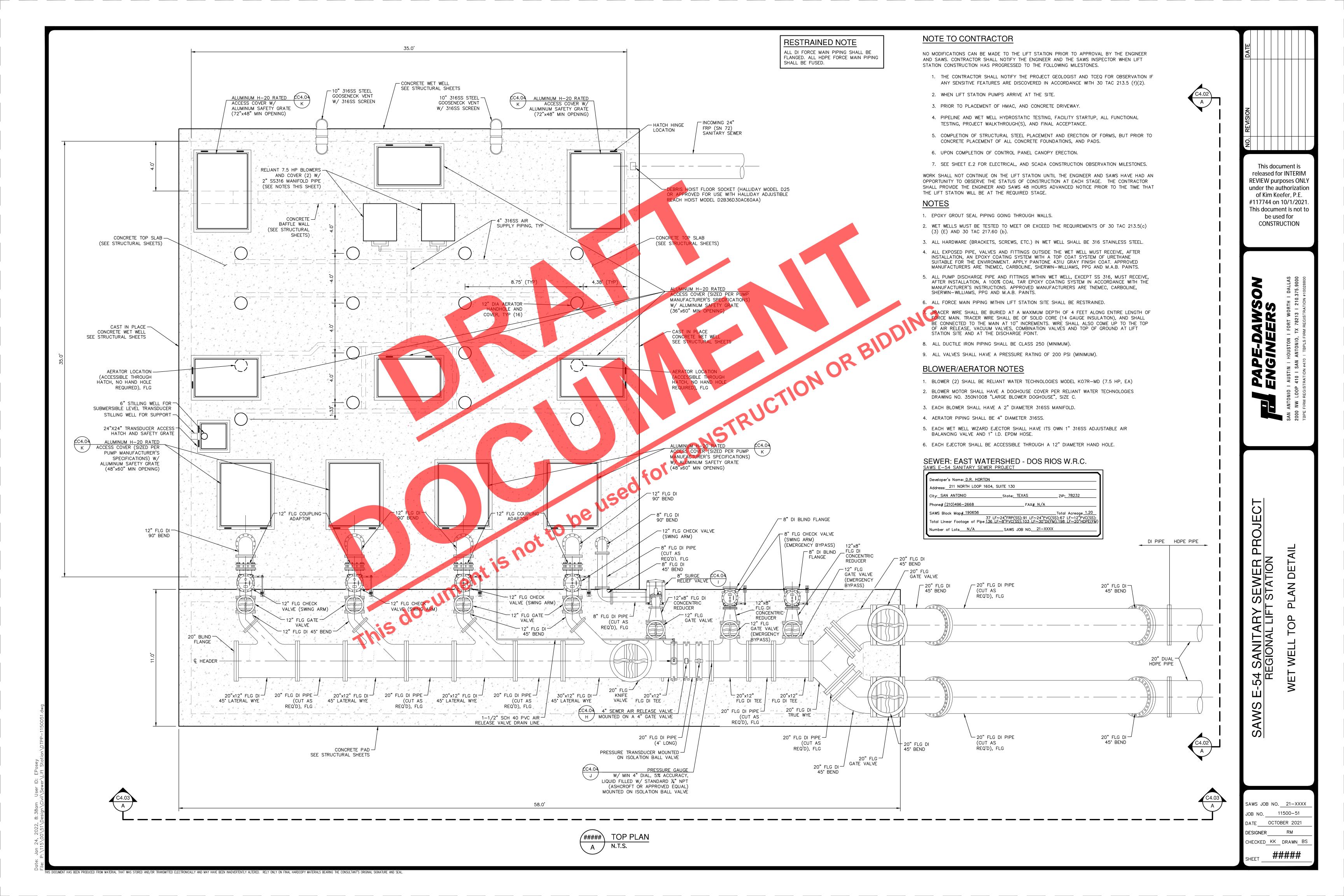
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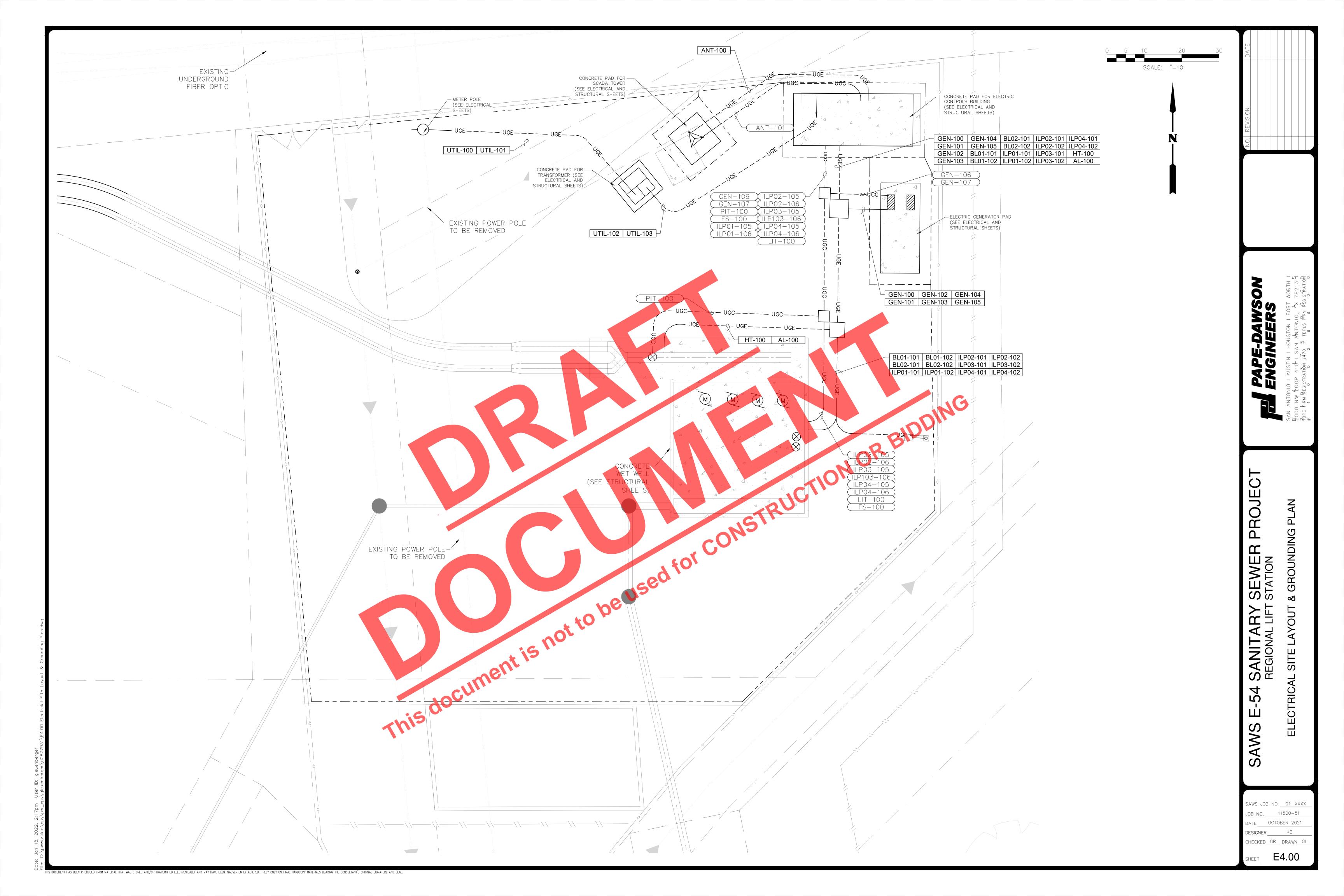
SEWER PROJECT T STATION DETAIL PROFILE **FRONT** SAWS

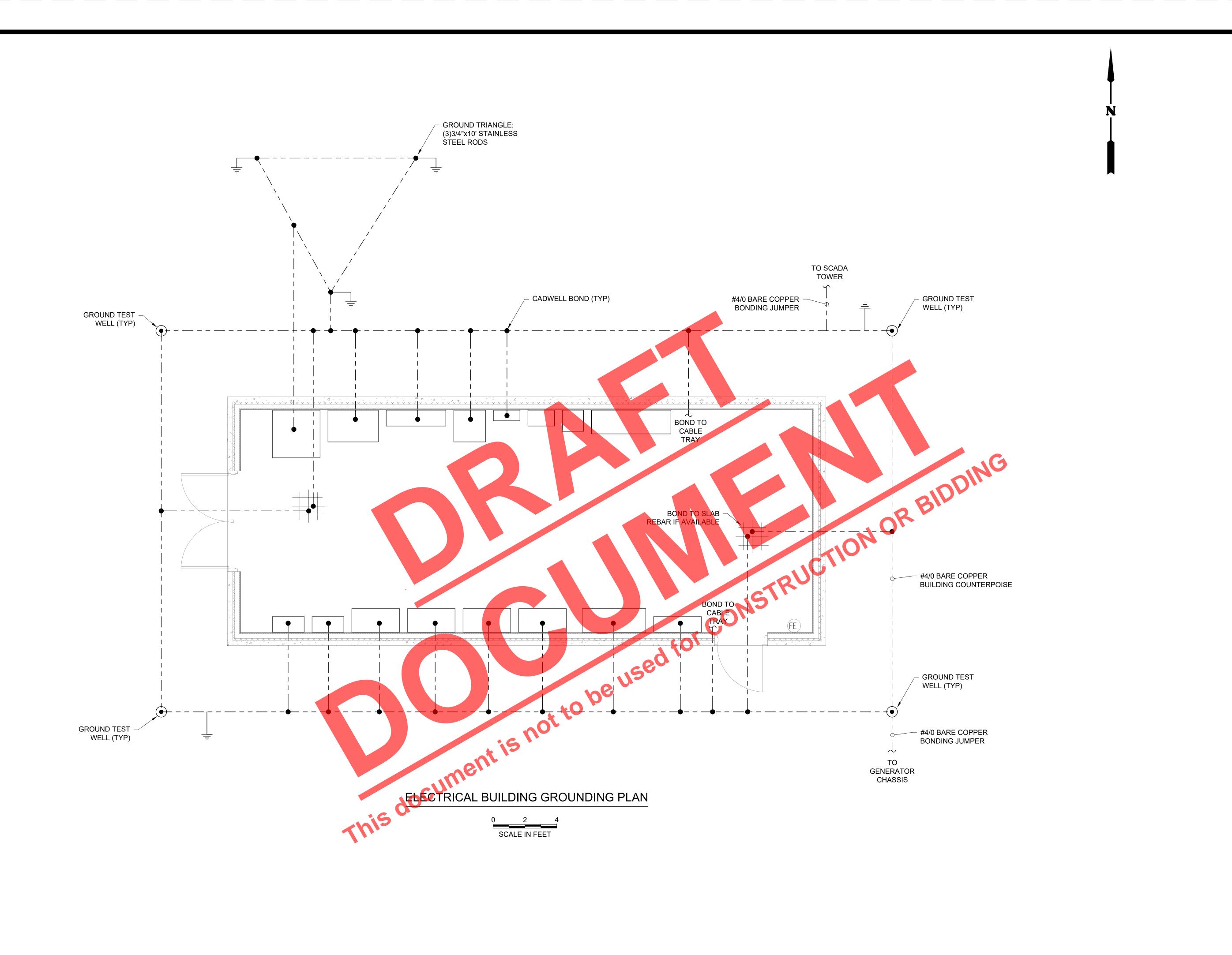
SAWS JOB NO. 21-XXXX 11500-51 DATE OCTOBER 2021 DESIGNER RM

CHECKED KK DRAWN BS

_SAWS JOB NO. 21-XXXX





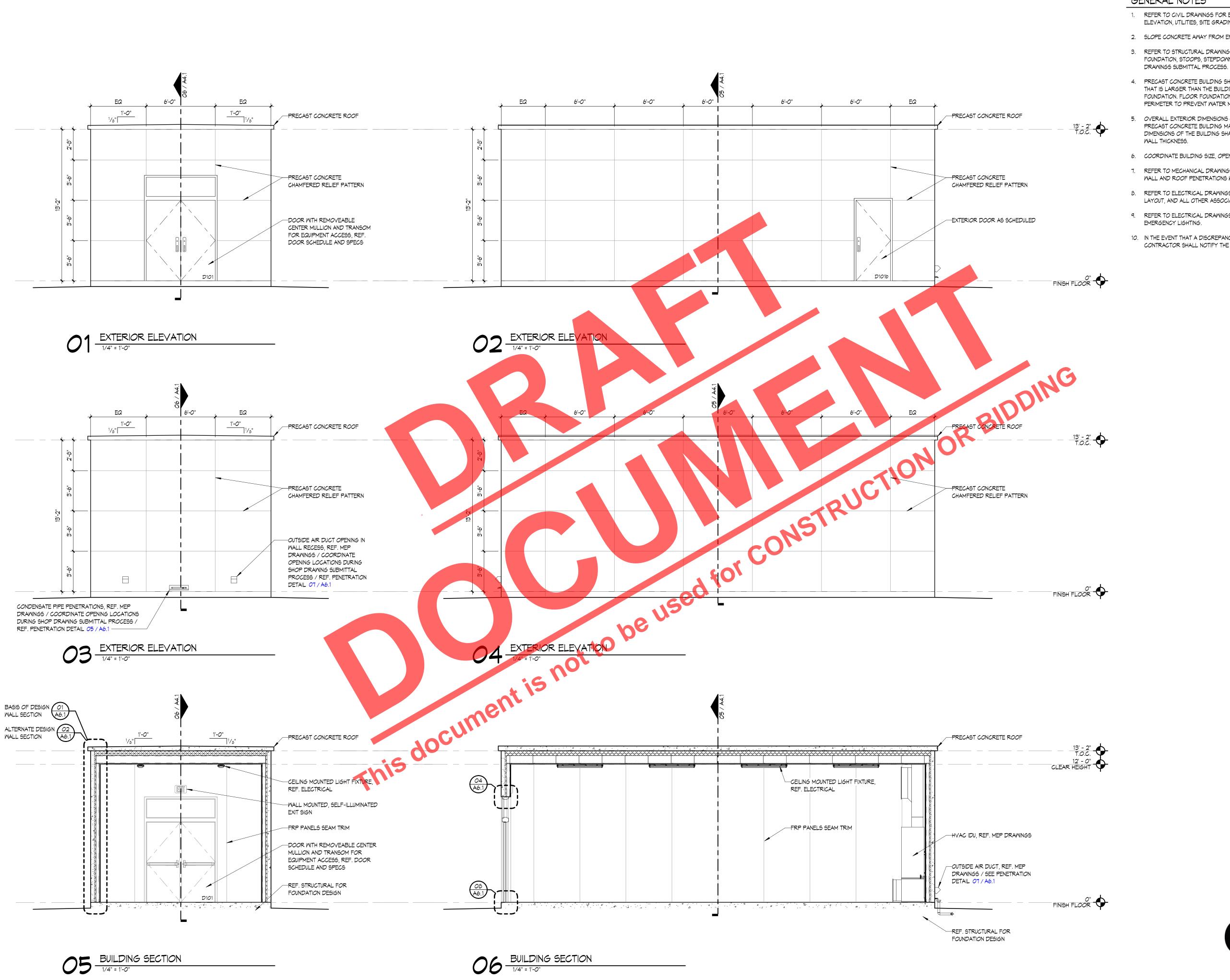


SANITARY SEWER PROJECT REGIONAL LIFT STATION E-54 SAWS

SAWS JOB NO. 21-XXXX JOB NO. _____11500-51 DATE OCTOBER 2021 DESIGNER KB

CHECKED GR DRAWN GL

SHEET <u>E10.20</u>



GENERAL NOTES

1. REFER TO CIVIL DRAWINGS FOR BUILDING LOCATION, ORIENTATION, FINISH FLOOR ELEVATION, UTILITIES, SITE GRADING, PAVING, AND FENCING.

2. SLOPE CONCRETE AWAY FROM ENTRY DOORS AT 2% SLOPE,

3. REFER TO STRUCTURAL DRAWINGS FOR FOUNDATION DESIGN. COORDINATE EXTENTS OF FOUNDATION, STOOPS, STEPDOWNS, CURBS AND OR PLATFORMS DURING THE SHOP

4. PRECAST CONCRETE BUILDING SHALL BEAR FULLY ON A RAISED CONCRETE FOUNDATION THAT IS LARGER THAN THE BUILDING FOOTPRINT. PROVIDE POSITIVE DRAINAGE FROM THE FOUNDATION. FLOOR FOUNDATION SHALL HAVE A 1-1/2" STEP DOWN AROUND ENTIRE PERIMETER TO PREVENT WATER MITIGATION INTO THE BUILDING.

5. OVERALL EXTERIOR DIMENSIONS OF THE BUILDING ARE SUBJECT TO CHANGE PER PRECAST CONCRETE BUILDING MANUFACTURERS WALL SIZES. THE INTERIOR CLEAR DIMENSIONS OF THE BUILDING SHALL NOT BE REDUCED TO ACCOMODATE A CHANGE IN

6. COORDINATE BUILDING SIZE, OPENINGS, AND PENETRATIONS WITH STRUCTURAL DRAWINGS.

7. REFER TO MECHANICAL DRAWINGS FOR HVAC DESIGN. COORDINATE SIZE, WEIGHT, AND WALL AND ROOF PENETRATIONS WITH PRECAST CONCRETE BUILDING MANUFACTURER.

8. REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL BUILDING EQUIPMENT DESIGN. LAYOUT, AND ALL OTHER ASSOCIATED INFORMATION AND SCHEMATICS.

9. REFER TO ELECTRICAL DRAWINGS FOR LIGHT FIXTURE SCEDULE, LAYOUT, AND

10. IN THE EVENT THAT A DISCREPANCY IS FOUND IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT / ENGINEER IMMEDIATELY.

PAPE-DAWSO ENGINEERS

PROJE(54 SANITARY SEWER REGIONAL LIFT STATION

SAWS JOB NO. 11500-51 DESIGNER

1010 S FLORES ST, STE 107

SAN ANTONIO, TX 78204

210.298.7800 gn-architect.com CHECKED GN DRAWN RD A4.1