

May 4, 2022

Mr. Walter Reeves
Director of Development Services
City of Angleton
121 S. Velasco
Angleton, TX 77515

Re: On-Going Services

Heritage Park Sec. 3 Subdivision Plat and Plan Review – 2<sup>nd</sup> Submittal Review

Angleton, Texas

HDR Job No. 10283980

Dear Mr. Reeves:

HDR Engineering, Inc. (HDR) has reviewed the final plat and construction plans for the above referenced property and offers the following comments:

- 1. The Angleton Drainage District provided a letter of approval, dated April 26, 2022, with stipulations noted and is provided as an attachment in this review. No additional action is required.
- 2. Prior to bidding of the project, a geotechnical report shall be provided for review of the recommendations provided for the proposed streets and other pertinent recommendations for the proposed Subdivision. Upon review of the report, the applicable plan sheets and details shall be revised to include this information.
- 3. Coordination shall be made with Fire Department review of the proposed street layout and cul-de-sac for fire access to the Subdivision.
- 4. Prior to acceptance of the Subdivision, the existing lift station (LS#36) shall be reviewed with Public Works to verify the configuration of the lift station pumping and control settings have been adjusted accordingly to accommodate wastewater from Section 3.
- 5. Coordination shall be made with Development Services regarding the condition and maintenance of the existing detention pond prior acceptance of the Subdivision.

HDR takes no objection to the Heritage Park Sec. 3 Subdivision final plat and construction plans with the exceptions noted. Please note, this does not necessarily mean that the entire drawings, including all supporting data and calculations, has been completely checked and verified; however, the drawings and calculations are signed, dated, and sealed by a professional engineer licensed to practice in the State of Texas, which therefore conveys the engineer's responsibility and accountability.

If you have any questions, please feel free to contact us at our office (713)-622-9264.

Sincerely,

HDR Engineering, Inc.

Javier Vasquez, P.E., CFM

Civil Engineer

cc: Files (10283980)

Attachments

# ANGLETON DRAINAGE DISTRICT

A Political Subdivision of the State of Texas P.O. Box 2469, Angleton, Texas 77516-2469 Phone: (979) 849-2414 Fax: (979) 848-8160



April 26, 2022

Clint Peltier Homes, LLC 765 Spur 28 Danbury, Texas 77534

Re:

Heritage Park, Section III

Plat and Drainage & Detention Plan

Dear Mr. Peltier:

During the special public of the Angleton Drainage District held on April 19, 2022, the Board of Supervisors unanimously approved the plat, drainage and detention plan of Heritage Park, Section III as presented.

As presented, Heritage Park, Section III will consist of 30 residential lots 70-feet in width. There will also be a 0.31 unrestricted reserve "B". This development consists of 11-acres. The existing detention pond will be expanded to accommodate the addition of Section 111 to the subdivision.

If any structures are added to this site in the future, a subsequent review by the Angleton Drainage District will be required to ensure there are no adverse impacts to adjacent landowners.

Approval of this plat and drainage and detention plan in no way represents that Heritage Park, Section III, has complied with any federal, state, county or other law, statute, procedure or requirement of any type beyond the approval of the drainage and detention plan approved, with the stipulations listed in this letter, if any, by the District.

Should you have any questions regarding this matter, please contact the Angleton Drainage District at 979.849.2414, Monday through Thursday, 7:00 a.m. to 5:30 p.m.

Sincerely,

David B. Spoor, Chairman

Angleton Drainage District Board of Supervisors

#### FIELD NOTES FOR 11.00 ACRE TRACT

BEING A TRACT OF LAND CONTAINING 11.00 ACRES (479,160 SQUARE FEET) OF LAND, LOCATED IN THE T.S. LEE SURVEY ABSTRACT NUMBER (NO.) 318, IN BRAZORIA COUNTY, TEXAS, BEING A PORTION OF TRACT 20 OF THE OLIVER AND BARROWS SUBDIVISION UNDER VOLUME (VOL.) 2, PAGE 97 OF THE BRAZORIA COUNTY PLAT RECORDS (B.C.P.R.), AND A PORTION OF DETENTION RESERVE "A" OF HERITAGE PARK SECTION ONE SUBDIVISION RECORDED UNDER VOL. 24. PAGE 203 OF TH B.C.P.R., BEING OUT OF A CALLED 38.00 ACRE TRACT RECORDED IN THE NAME OF ANGLETON INDEPENDENT SCHOOL DISTRIC UNDER BRAZORIA COUNTY CLERK'S FILE NO. 2009057153 AND A CALLED 4.929 ACRE TRACT RECORDED IN THE NAME OF ANGLETON INDEPENDENT SCHOOL DISTRICT UNDER B.C.C.F. NO. 2009057153; SAID 11.00 ACRES BEING MORE PARTICULARLY DESCRIBED BY METES AND BOUNDS AS FOLLOWS (BEARINGS AND COORDINATES ARE BASED ON THE TEXAS COORDINATE SYSTEM OF 1983 (NAD83) CENTRAL ZONE PER GPS OBSERVATIONS):

BEGINNING AT A 5/8-INCH IRON ROD WITH CAP STAMPED "COBB FENDLEY" FOUND ON THE WEST LINE OF A CALLED 9.032 ACRE TRACT (140-FOOT DRAINAGE RIGHT-OF-WAY (R.O.W.)) RECORDED UNDER VOL. (86)329, PAGE 340 OF THE BRAZORIA COUNTY DEED RECORDS (B.C.D.R.), AT THE NORTHEAST CORNER OF RESERVE "A" OF HERITAGE PARK SECTION TWO RECORDED UNDER FILE NO. 2017045675 B.C.P.R., FOR THE SOUTHEAST CORNER OF SAID 4.929 ACRE TRACT AND THE HEREIN

THENCE, WITH THE NORTH LINE OF SAID HERITAGE PARK SECTION TWO, BEING THE SOUTH LINES OF SAID 4.929 AND 38.00 ACRE TRACT SOUTH 87 DEGREES 08 MINUTES 15 SECONDS WEST AT A DISTANCE OF 361 46 FEET PASS A 5/8-INCH IRON ROD WITH CAP STAMPED "COBB FENDLEY" AT THE NORTHEAST CORNER OF THE TERMINUS LINE OF HERITAGE PARK DRIVE (60-FEET WIDE PER FILE NO. 2017045675 B.C.P.R.), ON THE WEST LINE OF SAID RESERVE "A", AT A DISTANCE OF 1.354.96 FEET PASS A 5/8-INCH IRON ROD WITH CAP STAMPED "COBB FENDLEY" FOUND AT THE COMMON NORTH CORNER OF LOTS 4 AND 5 BLOCK 1 OF SAID HERITAGE PARK SECTION TWO, CONTINUE IN ALL A DISTANCE OF 1,511.39 FEET TO A 5/8-INCH IRON ROD WITH CAP STAMPED "BAKER & LAWSON" SET ON THE EAST LINE OF A CALLED 40.00 ACRE TRACT RECORDED IN THE NAME OF ANGLETON INDEPENDENT SCHOOL DISTRICT UNDER VOL. 841, PAGE 632 B.C.D.R., AT THE NORTHWEST CORNER OF SAID HERITAGE PARK SECTION TWO, FOR THE SOUTHWEST CORNER OF SAID 38.00 ACRE TRACT AND THE HEREIN DESCRIBED

THENCE, WITH THE EAST LINE OF SAID 40.00 ACRE TRACT, BEING THE WEST LINE OF SAID 38.00 ACRE TRACT, NORTH 02 DEGREES 51 MINUTES 13 SECONDS WEST, A DISTANCE OF 317.04 FEET TO A 5/8-INCH IRON ROD WITH CAP STAMPED "BAKER & LAWSON" SET FOR THE NORTHWEST CORNER OF THE HEREIN DESCRIBED TRACT:

THENCE, THROUGH AND ACROSS SAID 38.00 AND 4.929 ACRE TRACTS, NORTH 87 DEGREES 08 MINUTES 15 SECONDS EAST, A DISTANCE OF 1,511.35 FEET TO A 5/8-INCH IRON ROD WITH CAP STAMPED "BAKER & LAWSON" SET ON THE WEST LINE OF SAID ANGLETON DRAINAGE DISTRICT 9.032 ACRE TRACT, BEING THE EAST LINE OF SAID 4.929 ACRE TRACT, FOR THE NORTHEAST CORNER OF THE HEREIN DESCRIBED TRACT. FROM WHICH A 5/8-INCH IRON ROD WITH CAP STAMPED "BAKER & LAWSON" FOUND AT THE NORTHEAST CORNER OF SAID DETENTION RESERVE "A" BEARS NORTH 02 DEGREES 51 MINUTES 41 SECONDS

THENCE, WITH THE WEST LINE OF SAID ANGLETON DRAINAGE DISTRICT 9.032 ACRE TRACT, BEING THE EAST LINE OF SAID 4.929 ACRE TRACT, SOUTH 02 DEGREES 51 MINUTES 41 SECONDS EAST, A DISTANCE OF 317.04 FEET TO THE POINT OF **BEGINNING.** CONTAINING 11.00 ACRES OF LAND. MORE OR LESS

JDJ VALDERAS A-375

STATE OF TEXAS §

COUNTY OF BRAZORIA §

NOW. THEREFORE. KNOW ALL MEN BY THESE PRESENTS:

Drainage Easements Maintained by a Homeowners' Association.

Drainage Easements shall always remain in the Association.

THAT Clint Peltier, do hereby adopt this plat designating the hereinabove described property as HERITAGE

PARK SECTION 3, a subdivision in the jurisdiction of the City of Angleton, Texas, and does hereby dedicate, in fee simple, to the public use forever, the streets, alleys and public parkland shown thereon.

The streets, alleys and parkland are dedicated for street purposes. The easements and public use areas,

as shown, are dedicated for the public use forever, for the purposes indicated on this plat. No buildings, fences, trees, shrubs, or other improvements or growths shall be constructed or placed upon, over, or

easements, if approved by the City of Angleton. In addition, utility easements may also be used for the mutual use and accommodation of all public utilities desiring to use or using the same unless the

easement limits the use to particular utilities, said use by public utilities being subordinate to the public's

and City of Angleton's use thereof. The City of Angleton and public utility entities shall have the right to

remove and keep removed all or parts of any buildings, fences, trees, shrubs, or other improvements or

growths which may in any way endanger or interfere with the construction, maintenance, or efficiency of

all or parts of their respective systems without the necessity at any time of procuring permission from

This plat is hereby adopted by the owners (called "Owners") and approved by the City of Angleton

"Drainage Easements" shown on the plat are reserved for drainage purposes forever, and the maintenance

of the drainage easements shall be provided by all of the owners of lots in the subdivision by and

and agree that such a homeowners' association (called "Association") shall be created prior to the final

acceptance of the City. All Association documents shall be subject to the approval of the City and shall specifically contain covenants binding the Association to continuously maintain all Drainage Easements.

Such covenants shall not relieve the individual lot owners of the responsibility to maintain the Drainage

Easements should the Association default in the performance of its maintenance responsibility. The

Association documents shall also contain provisions that they may not be amended with regard to the Drainage Easement maintenance responsibilities without the approval of the City. The fee simple title to all

The City and Angleton Drainage District are not responsible for the maintenance and operation of said

easements or for any damage or injury to private property or person that results from the flow of water

along said easement or for the control of erosion, but reserves the right to use enforcement powers to ensure that drainage easements are properly functioning in the manner in which they were designed and

The City and Angleton Drainage District reserves the right, but not the obligation, to enter upon any Drainage Easement at any point, or points, with all rights of ingress and egress, to investigate, survey,

erect, construct, or maintain any drainage facility deemed necessary by the City for drainage and safety

The Owners shall keep all Drainage Easements clean and free of debris, silt, and any substance which

would result in unsanitary conditions or obstruct the flow of water, and the City of Angleton or Angleton

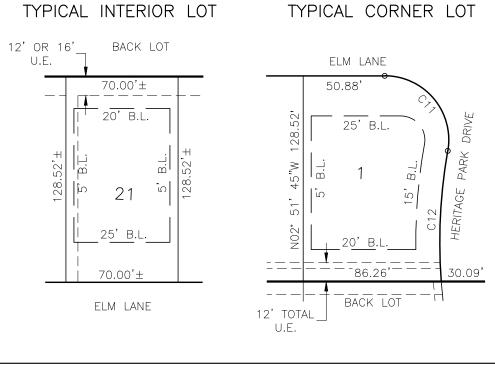
Drainage District shall have the right of ingress and egress for the purpose of inspection and supervision

agrees to indemnify and hold harmless the City from any such damages and injuries.

maintenance work by the Owners to alleviate any public health or safety issues. The Association hereby

through a lawfully created homeowners association to be created by the Owners. The Owners covenant

across the easements as shown, except that landscape improvements may be placed in landscape



RESERVE TABLE							
SYMBOL	DESCRIPTION	RESERVE USE	AREA				
$\langle A \rangle$	RESTRICTED RESERVE	RESTRICTED TO DETENTION USE	2.34 AC.				
B	RESERVE LOT	RESIDENTIAL LOT OR RIGHT-OF-WAY	0.31 AC.				

CALLED 38.00 ACRES ANGLETON INDEPENDENT

SCHOOL DISTRICT

B.C.C.F. No. 2009057153

						_				
			CURVE TABL	.E			PARCE	L TABLE	PARCE	L TABLE
Curve No.	Length	Radius	Delta	Chord Bearing	Chord Distance		LOT NO.	AREA S.F.	LOT NO.	AREA S.F
C1	163.43	300.00'	31°12'49"	S08°01'08"W	161.42'		1	10,984	21	8,996
C3	15.50'	20.00'	44°24'55"	S70°39'17"E	15.12'		2	9,446	22	8,996
C4	234.60'	50.00'	268°49'50"	S02°51'45"E	71.43'		3	9,446	23	8,996
C5	15.50'	20.00'	44°24'55"	S64°55'47"W	15.12'		4	9,446	24	8,996
C6	50.19	50.00'	57°30'37"	N77°12'08"W	48.11'		5	9,446	25	8,996
C7	41.88	50.00'	47°59'21"	S50°02'53"W	40.67		6	9,446	26	8,996
C8	42.74'	50.00'	48°58'29"	S01°33′58"W	41.45'		7	9,446	27	8,996
C9	44.33'	50.00'	50°48'15"	S48°19'24"E	42.90'		8	9,446	28	8,996
C10	55.46'	50.00'	63°33'09"	N74°29'54"E	52.66'		9	9,446	29	8,996
C11	69.76'	40.00'	99*55'48"	N42°53'51"W	61.25'		10	9,446	30	8,996
C12	81.93	330.00'	14°13'30"	S00°02'42"E	81.72'		11	9,446		
C13	179.62	270.00'	38°06'59"	S10°56'37"W	176.33'		12	9,380		

N28°04'37"E

20.16' 300.00' 3'51'00"

ELM COURT

(60' R.O.W.)

N87° 08' 15"E 1511.35'

11.00 ACRES

479,160 S.F.

76.33' | 300.00' | 14°34'43" | N18°51'45"E

Ξ	L TABLE	PARCE	L TABLE	PARCE
S.F.	AREA S.	LOT NO.	AREA S.F.	LOT NO.
6	8,996	21	10,984	1
6	8,996	22	9,446	2
6	8,996	23	9,446	3
6	8,996	24	9,446	4
6	8,996	25	9,446	5
6	8,996	26	9,446	6
6	8,996	27	9,446	7
6	8,996	28	9,446	8
6	8,996	29	9,446	9
6	8,996	30	9,446	10
			9,446	11
			9,380	12

LOT 0.31 ACRES

- FND. 5/8" C.I.R. $^{\setminus}$ 

FILE No. 2017045675

B.C.P.R.

EXIST. 30'X30' L.S. EASEMENT

FILE No. 2017045675

B.C.P.R.

- FND. 5/8" C.I.R. ├

30,5

C.P.O.

7,895

8,896

14 15,249

15 | 10,714

16 14,340

18 8,996

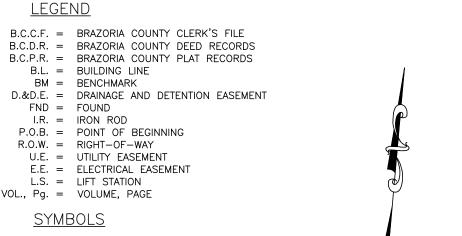
19 | 8,996

20 | 8,996

70.001

13

17



REMAINDER OF RESERVE "A".

CALLED 7.975 AC.

HERITAGE PARK SECTION ONE

VOL. 24, PG. 203, B.C.D.R.

265.97

RESERVE "A"

HERITAGE PARK SECTION TWO FILE No. 2017045675 B.C.P.R.

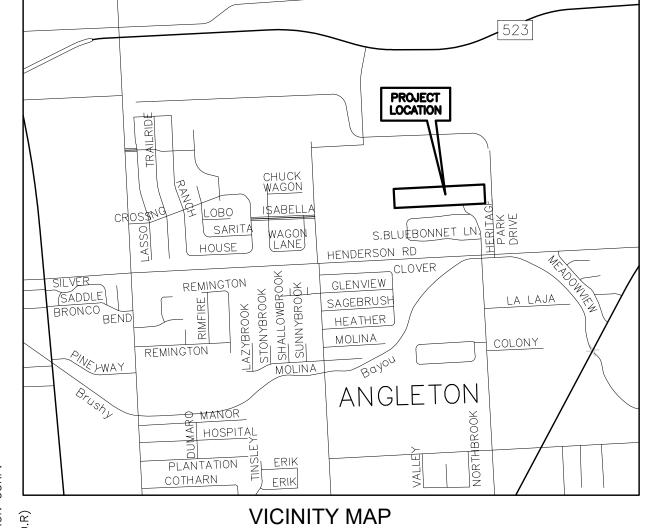
○ = SET 5/8" I.R. W/CAP "BAKER & LAWSON" 

→ = (TBM) TEMPORARY BENCHMARK

DETENTION RESERVE

2.34 ACRES

	LINE TA	BLE
ine No.	Length	Direction
L1	59.68	N11°34'23"E



# NOT TO SCALE

1. ALL BEARINGS SHOWN HEREON ARE BASED ON THE TEXAS COORDINATE SYSTEM OF 1983, (NAD83) SOUTH CENTRAL ZONE, PER GPS OBSERVATIONS.

ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP No. 48039C0435K, REVISED DATE OF DECEMBER 30, 2020, THE SURVEYED PROPERTY LIES WITHIN ZONE "X" (UNSHADED), AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.

NGS MONUMENT R1182 (PID AW1171):A BRASS DISK STAMPED R1182 SET ON CONCRETE CURB OF BRIDGE ON THE NORTH SIDE OF COUNTY ROAD 171, APPROXIMATELY 275 FEET SOUTHWEST OF INTERSECTION WITH CR 428. ELEVATION = 26.31 FEET NGVD29

4. THE POSSIBLE EXISTENCE OF UNDERGROUND FACILITIES OR SUBSURFACE CONDITIONS OTHER THAN THOSE SHOWN MAY AFFECT THE USE AND DEVELOPMENT OF THE SUBJECT PROPERTY SHOWN HEREON.

5. NOTICE: SELLING A PORTION OF THIS ADDITION BY METES AND BOUNDS IS A VIOLATION OF THE UNIFIED DEVELOPMENT CODE OF THE CITY OF ANGLETON AND STATE PLATTING STATUTES AND IS SUBJECT TO FINES AND WITHHOLDING OF UTILITIES AND BUILDING

6. NOTICE: PLAT APPROVAL SHALL NOT BE DEEMED TO OR PRESUMED TO GIVE AUTHORITY TO VIOLATE, NULLIFY, VOID, OR CANCEL ANY PROVISIONS OF LOCAL, STATE, OR FEDERAL LAWS, ORDINANCES, OR CODES.

7. NOTICE: THE APPLICANT IS RESPONSIBLE FOR SECURING ANY FEDERAL PERMITS THAT MAY BE NECESSARY AS THE RESULT OF PROPOSED DEVELOPMENT ACTIVITY. THE CITY OF ANGLETON IS NOT RESPONSIBLE FOR DETERMINING THE NEED FOR, OR ENSURING COMPLIANCE WITH ANY FEDERAL PERMIT.

8. NOTICE: APPROVAL OF THIS PLAT DOES NOT CONSTITUTE A VERIFICATION OF ALL DATA. INFORMATION AND CALCULATIONS SUPPLIED BY THE APPLICANT. THE ENGINEER OF RECORD OR REGISTERED PUBLIC LAND SURVEYOR IS SOLELY RESPONSIBLE FOR THE COMPLETENESS. ACCURACY AND ADEQUACY OF HIS/HER SUBMITTAL WHETHER OR NO THE APPLICATION IS REVIEWED FOR CODE COMPLIANCE BY THE CITY ENGINEER.

9. NOTICE: ALL RESPONSIBILITY FOR THE ADEQUACY OF THIS PLAT REMAINS WITH THE ENGINEER OR SURVEYOR WHO PREPARED THEM. IN APPROVING THESE PLANS, THE CITY OF ANGLETON MUST RELY ON THE ADEQUACY OF THE WORK OF THE ENGINEER AND/OR SURVEYOR OF RECORD.

10. THE PROPERTY OWNER'S ASSOCIATION WILL BE RESPONSIBLE FOR MAINTENANCE OF THE 2.34 AC. DETENTION RESERVE, PER LDC SEC. 23-19 RESERVATION.

11. ALL REAR BUILDING LINES SHALL BE 20 FEET FROM PROPERTY LINE. SIDE BUILDING LINES SHALL BE 5 FEET FOR INTERIOR SIDE LOTS, 15 FEET FOR CORNER LOTS ADJACENT TO THE RIGHT-OF-WAY, AND 25 FEET FOR KEY CORNER LOTS. THE FRONT OF THE BUILDING LINE SHALL BE 25 FEET.

12. THE OWNER, CLINT PELTIER, WILL BE RESPONSIBLE FOR MAINTENANCE OF RESERVE LOT B. RESERVE LOT B MAY BE RE-PLATTED AS A RESIDENTIAL LOT OR RIGHT-OF-WAY FOR FUTURE DEVELOPMENT.

### 70.00 S87°08′15″W993.09' S87° 08' 15"W 990.00' N87° 08' 15"F 845.06' 73.50' -28.0- — **← →** 16' U.E. FND. 1/2" C.I.R. Z | FND. 5/8" C.I.R. FND. 5/8" C.I.R. Z \_\_\_\_FND. 5/8" C.I.R. Z \_ FND. 5/8" C.I.R. 1/----29.0------ S87°08'15"W 1511.39'— - FND. 5/8" C.I.R. ANGLETON DRAINAGE DISTRICT T.S. LEE ANGLETON DRAINAGE DISTRICT ACCEPTED, THIS THE A-318 THE BOARD OF SUPERVISORS OF THE ANGLETON DRAINAGE DISTRICT DOES NOT WARRANT, REPRESENT OR GUARANTEE 1. THAT DRAINAGE FACILITIES OUTSIDE THE BOUNDARIES OF THE SUBDIVISION PLAT ARE AVAILABLE TO RECEIVE RUNOFF I.T. TINSLEY FROM THE FACILITIES DESCRIBED IN THIS PLAT. A - 3752. THAT DRAINAGE FACILITIES DESCRIBED IN THIS PLAT ARE ADEQUATE FOR RAINFALL IN EXCESS OF ANGLETON OWNER'S ACKNOWLEDGEMENT DRAINAGE DISTRICT MINIMUM REQUIREMENTS. STATE OF TEXAS § **DEDICATION STATEMENT:**

COUNTY OF BRAZORIA §

The owner of land shown on this plat, in person or through a duly authorized agent, dedicates to the use of the public forever all streets, alleys, parks, watercourses, drains, easements and public places thereon shown for the purpose and consideration therein expressed.

their respective systems in said easements. The City of Angleton and public utility entities shall at all times have the full right of ingress and egress to or from their respective easements for the purpose of STATE OF TEXAS § constructing, reconstructing, inspecting, patrolling, maintaining, reading meters, and adding to or removing COUNTY OF BRAZORIA §

> Before me, the undersigned, personally appeared Clint Peltier known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he/she executed the same for the purposes and considerations therein expressed and, in the capacity, therein stated. Given under my hand and seal of office this \_\_\_ day of \_\_\_\_\_, \_\_\_\_.

("City") subject to the following conditions which shall be binding upon the Owners, their heirs, grantees, Notary Public

SUBDIVISION DRAINAGE FACILITIES.

3. THAT BUILDING ELEVATION REQUIREMENTS HAVE BEEN DETERMINED BY THE ANGLETON DRAINAGE DISTRICT 4. THAT THE DISTRICT ASSUMES ANY RESPONSIBILITY FOR CONSTRUCTION, OPERATION OR MAINTENANCE OF

THE DISTRICT'S REVIEW IS BASED SOLELY ON THE DOCUMENTATION SUBMITTED FOR REVIEW, AND ON THE RELIANCE ON THE REPORT SUBMITTED BY THE TEXAS REGISTERED PROFESSIONAL ENGINEER.

EXIST. 16' U.E

└-FILE No. 2017045675

THE DISTRICT'S REVIEW IS NOT INTENDED NOR WILL SERVE AS A SUBSTITUTION OF THE OVERALL RESPONSIBILITY AND/OR DECISION MAKING POWER OF THE PARTY SUBMITTING THE PLAT OR PLAN HEREIN, THEIR OR ITS PRINCIPALS

PLANNING AND ZONING COMMISSION AND CITY COUNCIL:

APPROVED this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, by the Planning and Zoning Commission, City of Angleton, Texas

BILL GARWOOD, Chairman, Planning and Zoning Commission

FRANCES AGUILAR, City Secretary

APPROVED this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_, by the City Council, City of Angleton, Texas

JASON PEREZ, Mayor

FRANCES AGUILAR, City Secretary

STATE OF TEXAS § COUNTY OF BRAZORIA §

**MEMBER** 

This instrument was acknowledged before me on the \_\_\_\_ day of \_\_\_\_\_\_, 20\_\_\_, by FRANCES AGUILAR, City Secretary, City of Angleton, on behalf of the City.

Notary Public

KNOW ALL MEN BY THESE PRESENTS: THAT I, LUTHER J. DAILY, DO HEREBY CERTIFY THAT I PREPARED THIS PLAT FROM AN ACTUAL AND ACCURATE SURVEY OF THE LAND AND THAT THE CORNER MONUMENTS SHOWN THEREON WERE PROPERLY PLACED UNDER MY SUPERVISION.

LUTHER J. DAILY REGISTERED PROFESSIONAL LAND SURVEYOR TEXAS REGISTRATION NO. 6150

KNOW ALL MEN BY THESE PRESENTS: That I, Miguelangel Sauceda, do hereby certify that proper engineering consideration has been provided in this plat. To the best of my knowledge, this plat conforms to all requirements of the Angleton LDC, except for any variances that were expressly granted by the City Council.

MIGUELANGEL A SAUCEDA PROFESSIONAL ENGINEER

TEXAS REGISTRATION NO. 121992



LUTHER J. DALY

\$ 6150 ×

P.O.B.

FND. 5/8" C.I.R.

OWNER/DEVELOPER: 435 SPUR 28 DANBURY TEXAS 77534 cpchinvoices@gmail.com

# FINAL PLAT

# **HERITAGE PARK SUBDIVISION SECTION 3** A 11.00 ACRE, 30-LOT, 1 BLOCK, **2 RESERVE SUBDIVISION**

BEING A PORTION OF TRACT 20 OF THE OLIVER AND BARROWS SUBDIVISION VOL. 2, Pg. 97, B.C.P.R. AND A PORTION OF DETENTION RESERVE "A" OF HERITAGE PARK SECTION ONE SUBDIVISION VOL. 24, PG. 97, B.C.P.R.

LOCATED IN THE T.S. LEE SURVEY, ABSTRACT No. 318 IN BRAZORIA COUNTY, TEXAS



4005 Technology Drive, Suite 1530 Angleton, TX 77515 OFFICE: (979) 849-6681 TBPLS No. 10052500 REG. NO. F-825

PROJECT NO.: 15012 DRAWING NO.: 15012 PLAT.DWG

1" = 60'DRAWN BY: BT CHECKED BY: LJD DATE: 04/22/2022

REVISED:

# PLANS FOR CONSTRUCTION OF GRADING, PAVING, AND UTILITIES ON HERITAGE PARK SECTION 3 A 11.00 ACRE, 30-LOT SUBDIVISION FOR THE CITY OF ANGLETON **BRAZORIA COUNTY**

B&L JOB No. 15012

LOCATION WAGON HOUSE HENDERSON RD GLENVIEW REMINGTON LA LAJA SAGEBRUSH HEATHER COLONY REMINGTON PINELWAY ANGLETON MOSPITAL

PLANTATION

COTHARN

# CITY OF ANGLETON

MAYOR

CITY COUNCIL

JASON PEREZ

MIKEY SVOBODA CECIL BOOTH JOHN WRIGHT

CITY MANAGER CHRIS WHITTAKER

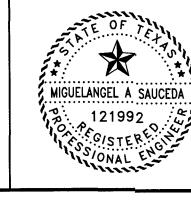
TRAVIS TOWNSEND MARK GONGORA

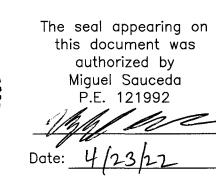
"Release of this application does not constitute a verification of all data, information and calculations supplied by the applicant. The engineer of record is solely responsible for the completeness, accuracy and adequacy of their submittal, whether or not the application is reviewed for Code compliance by the City

"All responsibility for the adequacy of these plans remains with the Engineer who prepared them. In approving these plans, the City of Angleton must rely on the adequacy of the work of the Design Engineer."

				DESIGNED MS
				DRAWN
NO.	DATE	DESCRIPTION	APPROVED	CHECKED
		REVISIONS	•	DATE







VICINITY MAP

OWNER: **Clint Peltier Clint Peltier Custom Homes** 979-481-4840

PROFILE: VERTICAL:

INDEX OF DRAWINGS

SHEET NAME

DETENTION POND DESIGN, CROSS SECTIONS

(SL-03) STORM SEWER MANHOLE CONSTRUCTION DETAILS

(SL-08) STORM SEWER INLET CONSTRUCTION DETAILS II

(SL-10) STORM SEWER CONSTRUCTION DETAILS

(SL-15) WATER LINE CONSTRUCTION DETAILS

(SL-16) WATER LINE CROSSING DETAILS

(SL-14) SANITARY SEWER CONSTRUCTION DETAILS

(SL-19) WATER LINE, SAN. SEW. F.M. BEDDING DETAILS (SL-20) STORM SEW. BEDDING AND BACKFILL DETAILS

(SL-21) CONCRETE PAVEMENT CONSTRUCTION DETAILS

(SL-22) CONCRETE PAVEMENT CONSTRUCTION DETAILS

(SL-23) RESIDENTIAL CURB CONSTRUCTION DETAILS

(SL-25) WHEEL CHAIR RAMP & SIDEWALK DETAILS I

(SL-26) WHEEL CHAIR RAMP & SIDEWALK DETAILS II

(SL-33) GENERAL EROSION CONTROL NOTES

(SL-34) EROSION CONTROL DETAILS I

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SHEET NO.

WINDSTORM DATA

SHEET NAME

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TITLE SHEET

FINAL PLAT

# HERITAGE PARK SECTION 3 ANGLETON, TEXAS **PLANS FOR**

GRADING, PAVING, UTILITIES AND DETENTION

TITLE SHEET

#### <u>GENERAL NOTES:</u>

- 1. CONTACT THE ENGINEERING INSPECTORS WITH THE CITY'S DEVELOPMENT SERVICES AT (979) 849-4364 PRIOR TO STARTING WORK TO SCHEDULE A PRE-CONSTRUCTION MEETING.
- 2. CONTRACTOR IS RESPONSIBLE FOR HAVING ALL BURIED UTILITIES IDENTIFIED, PROTECTED, REPLACED AND/OR PROPERLY REPAIRED IF DAMAGED. REPAIRS/REPLACEMENT SHALL BE AT CONTRACTOR'S EXPENSE.
- 3. CONTRACTOR SHALL OBTAIN AND MAINTAIN ON SITE ALL APPLICABLE PERMITS AND AN APPROVED COPY OF THE PLANS AND SPECIFICATIONS. NOTIFY THE CITY'S ENGINEERING DEPARTMENT 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
- 4. CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE CITY'S ENGINEERING DEPARTMENT 24 HOURS PRIOR TO WEEKDAY WORK REQUIRING INSPECTION INCLUDING, BUT NOT LIMITED TO, LIMING, PAVING OPERATIONS, CONCRETE PLACEMENT, FORMING AND SET-UP, DENSITIES, PIPE INSTALLATION, AND ANY TESTING BY LABORATORIES. THE ENGINEERING DEPARTMENT MAY BE REACHED AT 979-849-4364 OR BY CONTACTING THE ASSIGNED INSPECTOR
- 5. ALL SATURDAY WORK SHALL BE REQUESTED, IN WRITING, WITH THE CITY'S ENGINEERING DEPARTMENT AT LEAST 48-HOURS IN ADVANCE. SUNDAY AND HOLIDAY WORK REQUIRES 72 HR. WRITTEN REQUESTS AND MUST BE APPROVED BY THE CITY ENGINEER, REQUIRED INSPECTIONS MAY BE SUBJECT TO INSPECTION FEES. NON-NOTIFICATIONS MAY RESULT IN NON-COMPLIANCE, WORK ORDERED STOPPAGE AND DOUBLE INSPECTION FEES.
- 6. FULL-TIME RESIDENT INSPECTION BY THE PROJECT ENGINEER'S REPRESENTATIVE SHALL BE PROVIDED AT ALL CRITICAL POINTS OF CONSTRUCTION OR AS DEEMED NECESSARY BY THE CITY OF ANGLETON
- 7. FOLLOW-UP INSPECTIONS OF ALL PUBLIC INFRASTRUCTURE SHALL BE SCHEDULED WITHIN 60 DAYS OF THE INITIAL INSPECTION. COMPLETE RE-INSPECTION AND A NEW PUNCH LIST MAY BE REQUIRED AFTER THE 60 DAY PERIOD.
- 8. DESIGN AND CONSTRUCTION SHALL CONFORM TO THE TEXAS COMMISSION OF ENVIRONMENTAL QUALITY RULES AND REGULATIONS FOR PUBLIC WATER SYSTEMS, THE CITY OF SUGAR LAND DESIGN MANUAL (ISSUED 2007), AND THE CITY OF SUGAR LAND STANDARD DETAIL SHEETS. THE CITY OF SUGAR LAND DESIGN STANDARDS SHALL BE ACQUIRED (AND USED) FROM THE ENGINEERING DEPARTMENT, THE LATEST REVISIONS AND/OR AMENDMENTS SHALL BE OBSERVED. WHERE CONFLICT MAY ARISE BETWEEN INFORMATION ON APPROVED CONSTRUCTION DRAWINGS AND/OR PROJECT SPECIFICATIONS AND CITY OF SUGAR LAND STANDARDS, THEN THE CITY DESIGN STANDARDS SHALL GOVERN.
- 9. ALL STATIONS ARE CENTERLINE OF STREET RIGHT-OF-WAY UNLESS OTHERWISE NOTED ON THE PLANS EXCEPT IN SIDE OR BACK LOT EASEMENTS WHERE CENTERLINE IS CENTER OF PIPE. IN EASEMENTS WHERE SANITARY AND STORM SEWER ARE PRESENT PARALLEL, STATIONS SHALL BE BASED ON CENTERLINE OF STORM SEWER PIPING.
- 10. ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. ANY DRAINAGE AREA OR STRUCTURE DISTURBED, DURING CONSTRUCTION, SHALL BE RESTORED TO THE SATISFACTION OF THE CITY OF ANGLETON. ALL CONSTRUCTION STORM RUNOFF SHALL COMPLY WITH THE REQUIREMENTS OF THE CITY OF SUGAR LAND DESIGN STANDARDS. IF NON-COMPLIANCE OCCURS, CONTRACTOR SHALL REMEDY IMMEDIATELY AT HIS OWN EXPENSE.
- 11. ANY POLLUTION CONTROL DEVICE, SOD, OR SEEDED AREA DAMAGED, DISTURBED, OR REMOVED SHALL BE REPLACED OR REPAIRED AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR IS RESPONSIBLE FOR WATERING ANY SEED OR SOD WHICH HE HAS INSTALLED UNTIL ADEQUATE GROWTH IS ACHIEVED TO PREVENT EROSION.
- 12. STORM WATER POLLUTION PROTECTION SHALL BE DESIGNED, CONSTRUCTED, MAINTAINED AND SHALL BE IN TOTAL COMPLIANCE WITH THE STORM WATER QUALITY MANUAL OF THE CITY OF ANGLETON,
- 13. ANY MATERIALS OR WORKMANSHIP NOT MEETING OR EXCEEDING CITY OF SUGAR LAND STANDARDS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND WILL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
- 14. THE CONTRACTOR SHALL KEEP THE STREETS, RIGHT-OF-WAY, AND WORK AREA CLEAN OF DIRT, MUD, AND DEBRIS AS NEEDED OR AS REQUIRED BY CITY STAFF.
- 15. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL REQUIRED TRAFFIC SAFETY CONTROL DEVICES UP TO AND INCLUDING FLAGMEN OR POLICE OFFICERS, IF DEEMED NECESSARY BY THE CITY OF ANGLETON.
- 16. THE CONTRACTOR SHALL CONTACT THE CITY OR LOCAL MUD AS APPROPRIATE TO OPERATE EXISTING UTILITIES AND PRIOR
- TO MAKING TIE-INS 17. ALL BACKFILL WITHIN PUBLIC RIGHTS-OF-WAY OR EASEMENTS SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY
- (IN 8 INCH LIFTS) AND TESTED FOR  $\pm 2\%$  OPTIMUM MOISTURE BY AN APPROVED LAB.
- 18. IT IS PERMISSIBLE TO USE A BACKHOE FOR TRENCH EXCAVATION IN LIEU OF A TRENCHING MACHINE.
- 19. THE CONTRACTOR SHALL NEVER UNLOAD ANY TRACK- TYPE VEHICLE OR EQUIPMENT ON ANY EXISTING PAVEMENT OR CROSS OVER ANY EXISTING PAVEMENT OR CURB.
- 20. ALL FINISH GRADES ARE TO CONFORM TO A MINIMUM SLOPE OF 6" PER 100 FT. POSITIVE DRAINAGE IS DEPICTED BY
- 21. CONTRACTOR SHALL UNCOVER EXISTING UTILITIES AT ALL "POINTS OF CROSSING" TO DETERMINE IF CONFLICTS EXIST BEFORE COMMENCING ANY CONSTRUCTION. NOTIFY THE ENGINEER AT ONCE OF ANY CONFLICT.
- 22. ALL FINISHED GRADES SHALL VARY UNIFORMLY BETWEEN FINISHED ELEVATIONS.
- 23. ALL TESTING PROCEDURES SHALL CONFORM TO THE CITY OF SUGAR LAND STANDARDS. THE INITIAL TESTING EXPENSE SHALL BE BORNE BY THE OWNER. IF ANY OF THE TESTS DO NOT MEET THE TESTING STANDARDS, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REMOVE OR REPLACE SUCH MATERIAL SO THE TESTING STANDARDS CAN BE MET. ADDITIONAL TESTING TO MEET COMPLIANCE SHALL BE AT THE CONTRACTOR'S EXPENSE.
- 24. CONTRACTOR SHALL PROVIDE SHEETING, SHORING, AND BRACING AS NECESSARY TO PROTECT WORKMEN AND EXISTING UTILITIES DURING ALL PHASES OF CONSTRUCTION AS PER O.S.H.A. REQUIREMENTS.
- 25. ALL MATERIALS AND WORKMANSHIP NOT GOVERNED BY CITY STANDARDS SHALL CONFORM TO THE LATEST VERSION OF THE IXDOT STANDARD SPECIFICATIONS AND THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, AND ANY REVISION
- 26. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAFEGUARDING AND PROTECTING ALL MATERIALS AND EQUIPMENT STORED ON THE JOBSITE IN A SAFE AND WORKMAN-LIKE MANNER (DURING AND AFTER WORKING HOURS), UNTIL JOB COMPLETION.
- 27. THE LOADING AND UNLOADING OF ALL PIPE, VALVES, HYDRANTS, MANHOLES, AND OTHER ACCESSORIES SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED PRACTICES AND SHALL BE PERFORMED WITH CARE TO AVOID ANY DAMAGE TO THE MATERIAL. THE CONTRACTOR SHALL LOCATE AND PROVIDE THE NECESSARY STORAGE AREAS FOR MATERIAL
- 28. THE CONTRACTOR SHALL FURNISH ALL MATERIALS, EQUIPMENT, AND LABOR FOR EXCAVATION, INSTALLATION, AND COMPLETION OF THE PROJECT AS SHOWN ON THE PLANS AND SPECIAL PROVISIONS TO COMPLY WITH CITY OF SUGAR LAND STANDARDS.
- 29. NO PRIVATE UTILITIES (I.E., PHONE, CABLE T.V., ELECTRICITY, ETC.) SHALL BE INSTALLED WITHIN 4 FEET BACK OF CURB.
- 30. PLANS DO NOT EXTEND TO OR INCLUDE DESIGNS OR SYSTEMS PERTAINING TO THE SAFETY OF THE CONTRACTOR OR ITS EMPLOYEES, AGENTS, OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE SEAL OF THE REGISTERED PROFESSIONAL ENGINEER(S) HEREON DOES NOT EXTEND TO ANY SUCH SYSTEMS THAT MAY NOW OR HEREAFTER BE INCORPORATED IN THE PLANS. THE CONTRACTOR SHALL PREPARE OR OBTAIN THE APPROPRIATE SAFETY SYSTEMS, INCLUDING CURRENT OSHA STANDARDS FOR TRENCH SAFETY SYSTEMS, SEALED BY A LICENSED PROFESSIONAL ENGINEER. APPROPRIATE TRENCH SAFETY PLANS SHALL BE SUBMITTED BY THE CONTRACTOR PRIOR TO EXECUTION OF A CONTRACT FOR HIS WORK.

## CONCRETE/PAVING NOTES:

- 1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS AND AUTHORIZATION REQUIRED BY CITY OF ANGLETON.
- 2. CONTRACTOR SHALL HAVE ALL UTILITIES LOCATED PRIOR TO CONSTRUCTION AND WILL REPAIR OR REPLACE ANY DAMAGE AT CONTRACTOR'S EXPENSE.
- 3. PAVING CONTRACTOR SHALL PROTECT WATER, SEWER, AND DRAINAGE FACILITIES AND WILL REPLACE ANY DAMAGED FACILITIES AT HIS OWN EXPENSE. ALL MANHOLES AND VALVES WITHIN THE PAVEMENT AREA SHALL BE ADJUSTED TO FINISH GRADE BY THE PAVING CONTRACTOR WITH THE USE OF APPROVED BLOCKOUTS.
- 4. WHEN THE TOP OF CURB OR BOTTOM OF SIDEWALK SLAB ELEVATION VARIES FROM THE NATURAL GROUND, THE PAVING CONTRACTOR SHALL BACKFILL IN LAYERS NOT EXCEEDING 8-INCHES IN DEPTH. EACH LAYER WILL BE COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY. THE DISTURBED AREA SHALL BE SEEDED, SODDED, FERTILIZED, AND/OR SILT BARRIER FENCED WITHIN 10 WORKING DAYS. THE TYPE OF POLLUTION CONTROL WILL BE DETERMINED BY THE APPROVED PLANS AND/OR THE CITY OF ANGLETON CITY ENGINEER.
- ALL PAVING SHALL BE IN ACCORDANCE WITH THE CITY OF SUGAR LAND DESIGN STANDARDS, APPROVED PLANS AND SPECIFICATIONS WITH THE LATEST REVISIONS OR AMENDMENTS. IN THE EVENT OF A CONFLICT, THE CITY OF SUGAR LAND DESIGN STANDARDS GOVERNS.
- 6. PAVING CONTRACTOR SHALL PROVIDE AND MAINTAIN SILT PROTECTION FENCES ON ALL STAGE I CURB INLETS. THE PAVING CONTRACTOR SHALL MAINTAIN ANY OTHER POLLUTION CONTROLS ESTABLISHED, I.E., ADDITIONAL SILT BARRIERS, SANDBAGS, ETC., FOR THE DURATION OF THE PROJECT. ANY DAMAGED OR MISSING DEVICES SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
- 7. EXISTING PAVEMENTS, CURBS, SIDEWALKS, DRIVEWAYS, ETC., DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED TO THE CITY OF SUGAR LAND STANDARDS AT THE CONTRACTOR'S EXPENSE.
- 8. CONDITION OF THE WORK AREA (INCLUDING ROADS, RIGHT-OF-WAYS, ETC.) UPON COMPLETION OF THE JOB SHALL BE AS GOOD OR BETTER THAN THE CONDITION PRIOR TO STARTING THE WORK.
- 9. ALL DRIVEWAYS WILL BE LOCATED TO AVOID EXISTING CURB INLET STRUCTURES.
- 10. REDWOOD AND KEYWAYS SHALL NOT INTERSECT WITHIN 2 FEET OF AN INLET.
- 11. AT INITIAL AND FINAL INSPECTIONS THE PAVEMENT WILL BE FLOODED TO CHECK FOR BIRDBATHS AND CRACKS. FLOODING OF STREETS SHALL OCCUR 1 HOUR PRIOR TO INSPECTION.
- 12. ALL CONCRETE PLACED SHALL BE UNIFORMLY SPRAYED WITH A MEMBRANE CURING COMPOUND AS DESCRIBED IN ITEM 526 IN THE TXDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION. IMPROPER APPLICATION WILL RESULT IN THE REJECTION OF THE CONCRETE.

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- 13. SIX (6) INCH, 5.5 SK, 3500 PSI @ 28 DAYS, REINFORCED WITH #4 REBAR, 24" C-C EACH WAY IS THE MINIMUM ACCÈPTABLE CONSTRUCTION FOR LOCAL STREETS.
- 14. SEVEN (7) INCH, 5.5 SK, 3500 PSI @ 28 DAYS, REINFORCED WITH #4 REBAR, 18" C-C EACH WAY IS THE MINIMUM ACCEPTABLE PAVEMENT CONSTRUCTION FOR COLLECTOR STREETS.
- 15. EIGHT (8) INCH, 5.5 SK, 3500 PSI @ 28 DAYS, REINFORCED WITH #4 18" C-C EACH WAY IS THE MINIMUM ACCEPTABLE
- 16. WHEN CONCRETE PAVEMENT INTERSECTS THICKER PAVEMENT, THE THICKER PAVEMENT SHALL BE CONSTRUCTED TO THE
- ENDS OF ALL CURB RETURNS.
- 17. ALL RETURNS SHALL HAVE A MIN. 25 FT. RADIUS. AT THE FACE OF CURB UNLESS OTHERWISE NOTED. 18. ALL INTERSECTIONS SHALL BE CONSTRUCTED WITH WHEELCHAIR RAMPS IN ACCORDANCE WITH THE TEXAS ACCESSIBILITY STANDARD, THE AMERICAN DISABILITIES ACT, AND THE CITY OF SUGAR LAND STANDARDS (LATEST REVISIONS). (NO
- 19. CONCRETE SIDEWALKS SHALL BE CONSTRUCTED WITHIN EACH STREET RIGHT-OF-WAY IN ACCORDANCE WITH CITY OF SUGAR LAND, THE A.D.A., AND THE T.A.S. STANDARDS (LATEST REVISIONS).
- 20. CRACKS LARGER THAN 1/16-INCH ARE NOT ACCEPTABLE IN NEW PAVEMENT. CRACKS 1/16-INCH OR LESS SHALL BE ADDRESSED ON AN INDIVIDUAL BASIS BY DRILL AND EPOXY INJECTION, SUBJECT TO APPROVAL OR REJECTION.
- 21. PROPER TESTING AND LAB DOCUMENTATION IS REQUIRED. FAILURE TO MEET THE MINIMUM PAVEMENT REQUIREMENTS WILL RESULT IN THE REJECTION OF SAID PAVEMENT. IMMEDIATE REMOVAL AND REPLACEMENT OF SUBSTANDARD PAVEMENT SECTIONS WILL BE NECESSARY TO SATISFY THESE REQUIREMENTS.
- 22. 4-CONCRETE CYLINDERS, SLUMP, AND AIR ENTRAINMENT TESTS ARE REQUIRED FOR EACH 100 CUBIC YARDS OF CONCRETE PAVING WITH A MINIMUM OF ONE SET OF 4 PER PLACEMENT. THE CITY OF ANGLETON RESERVES THE RIGHT TO REQUEST ANY ADDITIONAL TESTS AT THE CONTRACTOR'S EXPENSE, IF ANY MATERIAL APPEARS BELOW STANDARDS.
- 23. NO. 3 REBAR, 18-INCH C-C E.W. IS THE MINIMUM ACCEPTABLE FOR SIDEWALKS. NUMBER 4-REBAR, 24-INCH C-C E.W. IS THE MINIMUM ACCEPTABLE FOR COMMERCIAL APPROACHES, HANDICAP RAMPS, RESIDENTAL APPROACHES AND DRIVEWAYS.
- 24. COLD WEATHER PRECAUTIONS. CONCRETE PAVEMENT SHALL NOT BE PLACED WHEN THE AMBIENT TEMPERATURE IS 40°F AND FALLING. CONCRETE MAY BE PLACED IF THE AMBIENT TEMPERATURE IS 35° AND RISING. CONTRACTOR SHALL PROVIDE AN APPROVED COVERING MATERIAL (COTTON MATS, POLYETHYLENE SHEETING, ETC.) IN THE EVENT TEMPERATURE SHOULD FALL BELOW 32°F. NO SALT OR OTHER CHEMICALS SHALL BE ADDED TO CONCRETE TO PREVENT FREEZING.
- 25. HOT WEATHER. NO CONCRETE PAVEMENT MIXTURE SHALL BE PLACED IF THE MIXTURE TEMPERATURE IS ABOVE 95°F. AIR AND WATER REDUCER ARE REQUIRED IF MIXTURE TEMPERATURE REACHES 85°F OR ABOVE.
- 26. IF NO AIR AND WATER REDUCER HAS BEEN ADDED, NO CONCRETE SHALL BE PLACED IF MORE THAN 60 MINUTES PAST BATCH TIME. IF AIR AND WATER REDUCER HAS BEEN ADDED, NO CONCRETE SHALL BE PLACED IF MORE THAN 90 MINUTES
- 27. STRUCTURE TEMPERATURES AND TIMING FOR CONCRETE PLACEMENT MAY VARY. REFER TO TXDOT STANDARDS ITEM 420 FOR
- 28. TRANSVERSE EXPANSION JOINTS SHALL BE PLACED AT ALL POINTS OF CURVATURE, POINTS OF TANGENCY AND ALL INTERSECTION CURB RETURN POINTS. MAXIMUM SPACING SHALL BE 200' AND BE SEALED WITH SEALANT CONFORMING TO TXDOT ITEM 360 (& ITEM 438) AND TXDOT DMS-6310, CLAS\$-2.

#### 29. CONTROL JOINTS SHALL BE PLACED AT 20' C-C.

- 30. EXPANSION JOINT LAYOUT FOR INTERSECTIONS SHALL BE PROVIDED BY ENGINEER FOR CITY APPROVAL.
- 31. NO WIRE MESH IS ALLOWED IN ANY CONCRETE WITHIN THE CITY LIMITS OR ETJ.
- 32. ALL REBAR SHALL BE 100% TIED. OVERLAPS SHALL BE DOUBLE TIED MINIMUM. REINFORCED STEEL BE A MINIMUM 60%
- 33. ALL NEW CURB REQUIRES 3,500 P.S.I. @ 28-DAYS. 4 CONCRETE CYLINDERS, SLUMP, AND AIR ENTRAINMENT TESTS ARE
- REQUIRED FOR EACH 50 CUBIC YARDS OF CONCRETE CURB WITH A MINIMUM OF ONE SET OF 4 PER PLACEMENT. 34. A CITY INSPECTOR MUST BE PRESENT ON ALL PROOF ROLLS, LIME DEPTH CHECKS AND DENSITY TESTS AND MUST BE
- CONTACTED AT LEAST 24 HOURS PRIOR TO THE TEST.
- 35. CONCRETE MIX DESIGN MUST BE SENT TO THE CITY FOR APPROVAL A MINIMUM 72 HOURS BEFORE THE FIRST CONCRETE
- 36. FOR A REGULAR MIX, SLUMP SHALL BE A MAXIMUM OF 5". FOR A MIX WITH A WATER REDUCER, SLUMP SHALL BE A MAXIMUM OF 6".
- 37. VEHICLES OF ALL TYPES ARE PROHIBITED FROM DRIVING ON NEW PAVEMENTS SEVEN (7) DAYS AFTER THE CONCRETE POUR AND UNTIL THE CONCRETE HAS REACHED A MINIMUM OF 3,000 PSI. PAVEMENT PROTECTION SUCH AS A DIRT LAYER OF AT LEAST 12" IS REQUIRED FOR TRACK EQUIPMENT AT PAVEMENT CROSSINGS.
- 39. ALL CONCRETE STREETS AND BRIDGE SURFACES SHALL HAVE A "BAKER BROOM" FINISH, WHILE ALL OTHER CONCRETE

38. IN LIEU OF MECHANICALLY CONTROLLED VIBRATORS CONTROLLED BY A SLIP-FORM PAVING MACHINE, HAND MANIPULATED

MECHANICAL VIBRATORS SHALL BE USED FOR PROPER CONSOLIDATION OF CONCRETE IN ALL PAVEMENT AREAS (ALONG

- PLACEMENT SHALL HAVE A MEDIUM BROOM FINISH.
- 40. ALL PAVEMENT MARKINGS TO BE DONE IN CONFORMANCE WITH THE LATEST VERSION OF TMUTCD AND TXDOT STANDARD

#### 41. REFER TO GENERAL NOTES. CEMENT STABILIZED SAND:

- 1. ALL STABILIZED SAND SHALL BE A MINIMUM OF 1.5 SK PER CUBIC YARD.
- 2. CEMENT STABILIZED SAND (C.S.S.) SHALL ACHIEVE A MINIMUM OF 100 PSI WITHIN 48 HOURS.
- 3. A MINIMUM OF 2 RANDOM SAMPLES SHALL BE TAKEN EACH WEEK. (FOR SMALLER PROJECTS, ONE SAMPLE MAY SUFFICE WITH CITY OF SUGAR LAND APPROVAL.) THE CITY OF ANGLETON RESERVES THE RIGHT TO REQUIRE ADDITIONAL TESTS, AT THE CONTRACTORS EXPENSE IF IT IS DEEMED NECESSARY.
- 4. ANY C.S.S. NOT MEETING CITY OF SUGAR LAND STANDARDS SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE
- 5. BOTH CEMENT CONTENT AND COMPRESSIVE TESTS SHALL BE CONDUCTED ON C.S.S. SAMPLES.
- 6. ALL C.S.S. SHALL BE COMPACTED IN MAXIMUM OF 8-INCH LIFTS AND REQUIRED TO REACH A MINIMUM DENSITY OF 95%. 7. REFER TO GENERAL NOTES.

## **BANK SAND:**

1. BANK SAND IS DEFINED AS A WELL-GRADED SAND, FREE OF SILT, CLAY, FRIABLE OR SOLUBLE MATERIALS AND ORGANIC MATER, MEETING THE UNIFIED SOILS CLASSIFICATIONS SYSTEM GROUP SYMBOL SW CRITERIA WITH A PLASTICITY INDEX OF LESS THAN 10. NO MORE THAN 12% OF MATERIAL CAN PASS THE No. 200 SIEVE.

# **LIMING SUBGRADE:**

- 1. LIME SHALL BE A "SLURRY" AS PER TXDOT 260 UNLESS SPECIFICALLY RECOMMENDED BY THE GEOTECHNICAL ENGINEER AND APPROVED BY THE CITY ENGINEER.
- 2. ALL LIME SLURRIES SHALL BE FURNISHED AT OR ABOVE THE MINIMUM "DRY SOLIDS" CONTENTS AS APPROVED BY THE
- 3. SUBGRADES SHALL BE STABILIZED WITH A MINIMUM SIX PERCENT (6%) LIME BY WEIGHT, EIGHT INCHES (8") THICK THE INITIAL MIX TO REDUCE PLASTICITY INDEX (PI) TO 20 OR LESS AS DETERMINED BY THE LIME SERIES. THE FINAL MIX SHALL BE AT SIX INCHES (6") THICK.
- 4. LIME DRY SOLID CONTENT TESTS SHALL BE CONDUCTED ON SITE, ONCE PER ONE HUNDRED (one hundred) TONS OF MATERIAL DISTRIBUTED, UNLESS OTHERWISE NOTED.
- 5. THE SUBGRADE SHALL BE SHAPED AND GRADED TO CONFORM TO THE TYPICAL SECTIONS, AS SHOWN ON THE PLANS, PRIOR TO TREATING THE EXISTING MATERIAL.
- 6. UNLESS APPROVED BY THE CITY ENGINEER, LIME OPERATIONS SHALL NOT BE STARTED WHEN THE AMBIENT AIR TEMPERATURE IS BELOW 40T. AND FALLING. LIMING MAY, WITH APPROVAL, BE STARTED WHEN THE AMBIENT AIR TEMPERATURE IS 35T AND RISING. LIME SHALL NOT BE PLACED WHEN WEATHER CONDITIONS, IN THE ENGINEER'S OPINION, ARE UNSUITABLE
- 7. THE SUBGRADE MATERIAL AND SLURRY SHALL BE THOROUGHLY MIXED, BROUGHT TO THE PROPER MOISTURE CONTENT (±2) AND LEFT TO CURE USUALLY 3 DAYS (72 HRS.) MINIMUM AS APPROVED BY THE CITY ENGINEER.
- 8. AFTER CURING, THE SUBGRADE SHALL BE REMIXED UNTIL PULVERIZATION REQUIREMENTS ARE MET, AS PER TXDOT. TEX-101-E, PART III.

#### PERCENT MINIMUM PASSING 1-3/4" SIEVE 100 PERCENT MINIMUM PASSING 3/4" SIEVE PERCENT MINIMUM PASSING No. 4 SIEVE

BAKER & LAWSON, INC.

ENGINEERS • PLANNERS • SURVEYORS

4005 TECHNOLOGY DRIVE, SUITE 1530

ANGLETON, TEXAS 77515 (979) 849-6681 REG. NO. F-825

9. SIEVE TESTS SHALL BE CONDUCTED EVERY 150 LF ON ALTERNATING LANES OF TRAFFIC OR EVERY 300 LF ON SINGLE LANES AS REQUIRED. AT LEAST ONE TEST SHALL BE CONDUCTED ON EACH ROADWAY OR CUL-DE-SAC.

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- 10. THE MATERIAL SHALL BE AERATED OR MOISTENED TO  $\pm$  OR  $\pm$ 2% OPTIMUM PRIOR TO COMPACTION. COMPACTION TO A MINIMUM 95% DENSITY SHALL BEGIN IMMEDIATELY AFTER ALL PULVERIZATION AND MOISTURE REQUIREMENTS ARE MET. THROUGHOUT THIS ENTIRE OPERATION, THE SURFACE SHALL BE SMOOTH AND IN CONFORMITY WITH THE LINES AND GRADES ON THE PLANS.
- 11. WHEN THE SUBGRADE FAILS TO MEET DENSITY REQUIREMENTS OR SHOULD IT LOSE THE REQUIRED STABILITY, DENSITY OR FINISH, IT SHALL BE REWORKED IN ACCORDANCE WITH TXDOT SUBARTICLE 260.4(7) "REWORKING A SECTION", WHICH MAY REQUIRE AN ADDITIONAL 25% OF THE SPECIFIED LIME AMOUNT.
- 12. THE TREATED SUBGRADE SHALL BE KEPT MOIST AND PREVENTED FROM DRYING. IN THE EVENT OF A ONE-HALF (1/2) INCH RAINFALL AND/OR IF THE MATERIAL BECOMES DRY AND IS NOT IN COMPLIANCE WITH THE ±2% OPTIMUM MCISTURE, DENSITY AND MOISTURE TESTS SHALL BE RETAKEN.
- 13. LIME DEPTH DETERMINATIONS WILL BE CONDUCTED AT EACH LOCATION OF DENSITY TESTING, LIME-STABILIZED SUBGRADE SHALL BE A MINIMUM OF 6% AT 8" UNLESS OTHERWISE DIRECTED BY CITY ENGINEER. DENSITY TESTING SHALL BE DONE IMMEDIATELY PRIOR TO PLACEMENT OF REINFORCING STEEL AND SHALL BE COMPACTED TO A MINIMUM OF 95%. LIME DEPTH TESTS SHALL BE CONDUCTED AT EVERY 150 LF OF ROADWAY ON ALTERNATING LANES OR EVERY 300 LF OF SINGLE LANE.AT LEAST ONE TEST SHALL BE CONDUCTED ON EACH ROADWAY AND/OR CUL-DE-SAC.
- 14. NO SUBGRADE SHALL BE COVERED WITH ANOTHER MATERIAL UNLESS APPROVED BY THE CITY OF ANGLETON AND LIME DEPTH TESTS HAVE BEEN COMPLETED.

#### STABILIZED CRUSHED CONCRETE:

- 1. TEST AND ANALYSIS OF AGGREGATE AND BINDER MATERIALS WILL BE PERFORMED IN ACCORDANCE WITH ASTM D 1557 AND ASTM D 4318. CEMENT SHALL BE ASTM C 150 TYPE I.
- 2. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH TXDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS AND BRIDGES (1993) AND ITS LATEST REVISIONS AND CITY OF SUGAR LAND STANDARDS.
- 3. PRIME COAT SHALL BE M.C. 30 OR EPR-1 PRIME.
- 4. DESIGN MIX FOR MINIMUM AVERAGE COMPRESSIVE STRENGTH OF 200 PSI IN 48 HRS. PROVIDE MINIMUM CEMENT CONTENT OF 2 SK PER TON OF MIX. CEMENT CONTENT MAY BE RAISED AT THE CONTRACTOR'S EXPENSE IF TESTS ON FIELD SAMPLES FALL BELOW 200 PSI.
- 5. THREE SAMPLES SHALL BE MOLDED EACH DAY FOR EACH 300 TONS OF PRODUCTION. COMPRESSIVE STRENGTH SHALL BE THE AVERAGE OF THREE TESTS FOR EACH PRODUCTION LOT. CONTRACTOR SHALL REPLACE, AT HIS OWN EXPENSE, ANY MATERIAL BELOW MINIMUM REQUIREMENTS.
- 6. CONTRACTOR SHALL VERIFY LINES, GRADES, AND COMPACTED SUBGRADING AS READY TO RECEIVE MATERIALS PRIOR TO ITS
- 7. CEMENT STABILIZED BASE MAY NOT BE PLACED IF AMBIENT TEMPERATURE IS 40"F AND FALLING. BASE MATERIAL MAY BE PLACED IF AMBIENT TEMPERATURE IS 35"F AND RISING.
- 8. MATERIAL MAY NOT BE PLACED IN LIFTS EXCEEDING 6 INCHES IN DEPTH. EACH LIFT SHALL HAVE DENSITIES TAKEN.
- 9. CEMENT STABILIZED BASE MAY NOT BE STORED FOR LONG PERIODS. DELIVERY OF MATERIAL AND UTILIZATION SHOULD BE TIMED ACCORDINGLY. MAXIMUM TIME ALLOWED 3 HRS, FROM BATCH TIME TO HAVING BEEN INSTALLED.
- 10. CEMENT STABILIZED BASE SHALL NOT BE INSTALLED IN WET OR SOFT AREAS.
- 11. COMPACT TO MINIMUM DENSITY OF 95% OF MAXIMUM DRY DENSITY. UNLESS OTHERWISE INDICATED ON DRAWINGS, MOISTURE SHALL BE BETWEEN + OR -2% OPTIMUM AS DETERMINED BY ASTM D 698.
- 12. AFTER COMPACTING FINAL COURSE, BLADE SURFACE TO FINAL GRADE. ANY IRREGULARITIES, WEAK SPOTS, AREAS OF EXCESSIVE WETNESS, OR SURFACE HAIR LINE CRACKING SHALL BE REPAIRED AND/OR REPLACED AT CONTRACTOR'S
- 13. A CERTIFIED LAB SHALL BE ON SITE AT ALL TIMES TO TEST AND PROPERLY DOCUMENT THE CONSTRUCTION METHODS AND QUALITY OF MATERIALS.
- 14. COMPACTION TESTING WILL BE PERFORMED IN ACCORDANCE WITH ASTM D 1556 OR ASTM D 2922 AND ASTM D 3017 AT
- RANDOMLY SELECTED LOCATIONS AS DIRECTED BY CITY OF ANGLETON CONSTRUCTION INSPECTOR.
- 15. A MINIMUM OF ONE CORE SHALL BE TAKEN AT RANDOM LOCATIONS PER 300 LF PER LANE OF ROADWAY OR ONE PER 250 SQ. YD., WHICHEVER MAY APPLY AND SHALL BE STAGGERED RELATIVE TO TESTING SITES IN ABUTTING TRAFFIC LANES.
- 16. CURE FOR A MINIMUM OF 7 DAYS BEFORE ADDING ASPHALT PAVEMENT COURSES.
- 17. COVER SURFACE WITH CURING MEMBRANES AT THE FOLLOWING RATES: MC-30:.01 GAL. PER SQ. YD., OR EPR-1 PRIME: 0.15 GAL. PER SQ. YD. DO NOT USE CUTBACK ASPHALT APRIL 16 TO SEPTEMBER 15. PROTECT THE MEMBRANE BY ALLOWING MEMBRANE TO FULLY CURE PRIOR TO PERMITTING TRAFFIC TO DRIVE ON IT
- 18. UNSTABILIZED CRUSHED CONCRETE MAY NOT BE USED ON PUBLIC STREETS, ROADS, OR RIGHTS-OF-WAY,
- 19. STABILIZED LIMESTONE BASE MAY BE SUBSTITUTED FOR STABILIZED CRUSHED CONCRETE IF SUBMITTED AND APPROVED BY THE CITY ENGINEER.

#### STABILIZED CRUSHED CONCRETE:

- 1. TEST AND ANALYSIS OF AGGREGATE AND BINDER MATERIALS WILL BE PERFORMED IN ACCORDANCE WITH ASTM D 1557 AND ASTM D 4318. CEMENT SHALL BE ASTM C 150 TYPE I.
- 2. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH TXDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS AND BRIDGES (1993) AND ITS LATEST REVISIONS AND CITY OF SUGAR LAND STANDARDS.
- 3. PRIME COAT SHALL BE M.C. 30 OR EPR-1 PRIME.
- 4. DESIGN MIX FOR MINIMUM AVERAGE COMPRESSIVE STRENGTH OF 200 PSI IN 48 HRS. PROVIDE MINIMUM CEMENT CONTENT OF 2 SK PER TON OF MIX. CEMENT CONTENT MAY BE RAISED AT THE CONTRACTOR'S EXPENSE IF TESTS ON FIELD SAMPLES FALL BELOW 200 PSI.
- 5. THREE SAMPLES SHALL BE MOLDED EACH DAY FOR EACH 300 TONS OF PRODUCTION. COMPRESSIVE STRENGTH SHALL BE THE AVERAGE OF THREE TESTS FOR EACH PRODUCTION LOT. CONTRACTOR SHALL REPLACE, AT HIS OWN EXPENSE, ANY MATERIAL BELOW MINIMUM REQUIREMENTS.
- 6. CONTRACTOR SHALL VERIFY LINES, GRADES, AND COMPACTED SUBGRADING AS READY TO RECEIVE MATERIALS PRIOR TO ITS
- 7. CEMENT STABILIZED BASE MAY NOT BE PLACED IF AMBIENT TEMPERATURE IS 40"F AND FALLING, BASE MATERIAL MAY BE
- PLACED IF AMBIENT TEMPERATURE IS 35"F AND RISING.
- 8. MATERIAL MAY NOT BE PLACED IN LIFTS EXCEEDING 6 INCHES IN DEPTH. EACH LIFT SHALL HAVE DENSITIES TAKEN. 9. CEMENT STABILIZED BASE MAY NOT BE STORED FOR LONG PERIODS. DELIVERY OF MATERIAL AND UTILIZATION SHOULD BE
- TIMED ACCORDINGLY. MAXIMUM TIME ALLOWED 3 HRS. FROM BATCH TIME TO HAVING BEEN INSTALLED. 10. CEMENT STABILIZED BASE SHALL NOT BE INSTALLED IN WET OR SOFT AREAS.
- 11. COMPACT TO MINIMUM DENSITY OF 95% OF MAXIMUM DRY DENSITY. UNLESS OTHERWISE INDICATED ON DRAWINGS, MOISTURE
- SHALL BE BETWEEN + OR -2% OPTIMUM AS DETERMINED BY ASTM D 698. 12. AFTER COMPACTING FINAL COURSE, BLADE SURFACE TO FINAL GRADE. ANY IRREGULARITIES, WEAK SPOTS, AREAS OF
- EXCESSIVE WETNESS, OR SURFACE HAIR LINE CRACKING SHALL BE REPAIRED AND/OR REPLACED AT CONTRACTOR'S
- 13. A CERTIFIED LAB SHALL BE ON SITE AT ALL TIMES TO TEST AND PROPERLY DOCUMENT THE CONSTRUCTION METHODS AND QUALITY OF MATERIALS
- 14. COMPACTION TESTING WILL BE PERFORMED IN ACCORDANCE WITH ASTM D 1556 OR ASTM D 2922 AND ASTM D 3017 AT RANDOMLY SELECTED LOCATIONS AS DIRECTED BY CITY OF ANGLETEON CONSTRUCTION INSPECTOR.
- 15. A MINIMUM OF ONE CORE SHALL BE TAKEN AT RANDOM LOCATIONS PER 300 LF PER LANE OF ROADWAY OR ONE PER 250 SQ. YD., WHICHEVER MAY APPLY AND SHALL BE STAGGERED RELATIVE TO TESTING SITES IN ABUTTING TRAFFIC LANES.

ALLOWING MEMBRANE TO FULLY CURE PRIOR TO PERMITTING TRAFFIC TO DRIVE ON IT.

- 16. CURE FOR A MINIMUM OF 7 DAYS BEFORE ADDING ASPHALT PAVEMENT COURSES.
- 17. COVER SURFACE WITH CURING MEMBRANES AT THE FOLLOWING RATES: MC-30:.01 GAL. PER SQ. YD., OR EPR-1 PRIME: 0.15 GAL. PER SQ. YD. DO NOT USE CUTBACK ASPHALT APRIL 16 TO SEPTEMBER 15. PROTECT THE MEMBRANE BY

PLAN:\_

PROFILE:

**HORIZONTAL:** 

VERTICAL:

18. UNSTABILIZED CRUSHED CONCRETE MAY NOT BE USED ON PUBLIC STREETS, ROADS, OR RIGHTS-OF-WAY. 19. STABILIZED LIMESTONE BASE MAY BE SUBSTITUTED FOR STABILIZED CRUSHED CONCRETE IF SUBMITTED AND APPROVED BY

OWNER:

THE CITY ENGINEER.

Clint Peltier Clint Peltier Custom Homes 979-481-4840

HERITAGE PARK SECTION 3 ANGLETON, TEXAS PLANS FOR GRADING, PAVING, UTILITIES AND DETENTION

CONSTRUCTION NOTES (1 OF 2)

PROJECT NO. 15012

DESCRIPTION

REVISIONS

NO. DATE

#### STORM SEWER NOTES:

- STORM SEWERS SHALL BE DESIGNED AND CONSTRUCTED WITH CITY OF SUGAR LAND STANDARD CONSTRUCTION SPECIFICATIONS AND IN ACCORDANCE WITH CITY OF SUGAR LAND STANDARD DETAILS SHEET AND LATEST REVISIONS.
- 2. ALL PIPE STORM SEWERS SHALL BE INSTALLED, BEDDED, AND BACKFILLED IN ACCORDANCE WITH CITY OF SUGAR LAND STANDARD DETAIL DRAWINGS.
- 3. ALL CEMENT STABILIZED SAND (C.S.S.) SHALL BE 1-1/2 SK PER CUBIC YD. AND MEET MINIMUM C.S.S. STANDARDS COMPACTED TO 95%.
- 4. ALL PROPOSED PIPE STUB-OUTS FROM MANHOLES OR INLETS ARE TO BE PLUGGED WITH 8" BRICK WALLS WITH FULL MORTAR HEAD AND BED JOINTS AND GROUTED WITH A MINIMUM OF 1/2-INCH NON-SHRINK GROUT INSIDE AND OUTSIDE, UNLESS OTHERWISE NOTED.
- 5. AVOID TO MAXIMUM EXTENT, MANHOLES IN HANDICAP RAMPS.
- 6. ALL STORM SEWER MANHOLES SHALL BE OF SUGAR LAND TYPE "C" UNLESS OTHERWISE NOTED AND SHALL BE LOCATED A MINIMUM OF THREE (3) FEET BACK OF CURB. IF CONFLICT EXISTS, RACK OVER MANHOLE TO MISS PROPOSED CURB.
- 7. RIM ELEVATIONS SHOWN ON THE PLANS ARE APPROXIMATE ONLY. UTILITY CONTRACTOR SHALL ADJUST RIM ELEVATIONS TO 0.4 FEET ABOVE THE FINISH GRADE AT EACH LOCATION AFTER CONTRACTOR HAS COMPLETED FINAL GRADING. SLOPED FILL SHALL BE ADDED FOR STORM WATER DRAINAGE AWAY FROM RIM.
- 8. RIM ELEVATIONS SHALL BE PROPERLY ADJUSTED TO GRADE IN PAVEMENT AND SIDEWALKS. APPROVED BLOCKOUTS SHALL BE USED IN PAVEMENT.
- 9. ALL STORM SEWER MANHOLE COVERS MUST INCLUDE "STORM SEWER" AND "DUMP NO WASTE", "DRAINS TO WATERWAYS" WITH CITY OF ANGLETON EMBLEM AS DEPICTED IN THE DETAIL SHEETS.
- 10. MINIMUM STORM SEWER SIZE SHALL BE 24-INCH DIAMETER. ALL STORM SEWER PIPES 24" AND LARGER ARE TO BE REINFORCED CONCRETE PIPE ASTM C-76 CLASS III, INCLUDING INLET LEADS CROSSING UNDER EXISTING OR PROPOSED PAVEMENTS. ALL INLET LEADS SHALL BE 24" R.C.P. OR LARGER. ALL STORM SEWER PIPE SHALL 3E RUBBER GASKETED. ALL CMP PIPE SHALL BE IN ACCORDANCE WITH C.O.S.L. APPROVED PRODUCT LIST AND STANDARD DETAILS.
- 11. CONTRACTOR SHALL VERIFY NATURAL GROUND SHOTS PRIOR TO MANHOLE CONSTRUCTION.
- 12. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING LOCATION OF ALL EXISTING UTILITIES PRIOR TO EXCAVATION. DURING THE COURSE OF ANY AND ALL CLEARING, GRUBBING, FILL, GRADING, EXCAVATION OR OTHER CONSTRUCTION, CONTRACTOR SHALL ENSURE THAT STORM DRAINAGE PATHWAYS ARE MAINTAINED AND REMAIN OPEN TO ENSURE POSITIVE DRAINAGE AND THAT SUCH CONVEYANCES ARE NOT IMPEDED OR BLOCKED IN ANY WAY. STORM SEWER INLETS SHALL BE PROTECTED FROM ENTRY OF SILT, TRASH, DEBRIS AND ANY SUBSTANCES DELETERIOUS TO THE STORM SEWER SYSTEM AND/OR WATERWAYS RECEIVING STORM WATER RUNOFF. CONTRACTOR SHALL AT COMPLETION OF WORK, FILL LOW SPOTS AND GRADE ALL RIGHTS—OF—WAY AND UTILITY EASEMENTS AND REGRADE/RESTORE DITCHES AS NECESSARY TO MAINTAIN AND/OR ESTABLISH POSITIVE DRAINAGE.
- 13. CONTRACTOR TO PROVIDE A MINIMUM OF 6—INCHES CLEARANCE AT UTILITY CROSSINGS AND A MINIMUM OF TWELVE (12) INCHES AT SANITARY SEWER CROSSING.
- 14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, MAINTAINING, AND RESTORING ANY BACKSLOPE DRAINAGE SYSTEM DISTURBED AS A RESULT OF HIS WORK.
- 15. ALL DITCHES SHALL BE RESTORED TO PROPOSED ELEVATIONS TO INSURE PROPER DRAINAGE. ALL OUTFALLS SHALL BE COMPACTED AND ALL DISTURBED AREAS SHALL BE RE—SEEDED OR SODDED WITHIN 10 WORKING DAYS OF EACH OCCURRENCE (NO SEPARATE PAY).
- 16. THE UTILITY CONTRACTOR SHALL ROUGH CUT ALL ROADSIDE SWALES IN PROPER ALIGNMENT AND SLOPE TO WITHIN 0.2 FT. OF FINISH GRADE. THE PAVING CONTRACTOR, UPON COMPLETION OF PAVING, SHALL COMPLETE FINAL GRADING ALIGNMENT OF SWALES AND RESTORE ALL AREAS WITHIN RIGHT—OF—WAY FOR SEEDING OR SODDING AND FERTILIZATION.
- 17. ALL STORM SEWERS MUST BE CLEAN/FREE OF DIRT AND DEBRIS AT THE TIME AND INITIAL AND FINAL ACCEPTANCE.

#### CANTARY OF WER MOTEO

18. REFER TO GENERAL NOTES AND C.S.S. NOTES.

#### SANITARY SEWER NOTES:

- 1. SANITARY SEWERS, FORCE MAINS, MANHOLES, LIFT STATIONS AND WASTEWATER TREATMENT PLANTS SHALL BE DESIGNED AND CONSTRUCTED AS PER THE REQUIREMENTS OF THE CITY OF SUGAR LAND DESIGN STANDARDS AND CORRESPONDING STANDARD CONSTRUCTION DETAILS SHEETS AND AS PER THE REQUIREMENTS OF THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY "DESIGN CRITERIA FOR SEWERAGE SYSTEMS". SHOULD A CONFLICT ARISE BETWEEN INFORMATION DEPICTED ON APPROVED CONSTRUCTION DRAWINGS AND/OR INFORMATION INCLUDED IN PROJECT SPECIFICATIONS, CITY OF SUGAR LAND DESIGN STANDARDS SHALL GOVERN.
- 2. ALL MATERIALS AND PRODUCTS USED IN THE CONSTRUCTION OF SANITARY SEWERS, FORCE MAINS, MANHOLES, LIFT STATIONS AND WASTEWATER TREATMENT PLANTS SHALL COMPLY WITH THE CITY OF SUGAR LAND DESIGN STANDARDS AND THE CURRENT APPROVED PRODUCTS LIST.
- 3. STACKS SHALL BE BUILT IN ACCORDANCE WITH THE CITY OF SUGAR LAND STANDARD DETAIL DRAWING REQUIREMENTS. EXACT LOCATION OF THE STACK SHALL BE SUPPLIED TO THE CITY ENGINEER OF ANGLETON BY THE PROJECT ENGINEER (BAKER & LAWSON) ON SEALED AS—BUILT DRAWINGS AT COMPLETION OF CONSTRUCTION. ALL STACKS. TERMINATED AT A DEPTH OF 4 FEET BELOW FINISHED GRADE, UNLESS OTHERWISE DIRECTED BY THE CITY ENGINEER.
- 4. EACH SANITARY SEWER SERVICE LEAD STUB, PLUGGED WYE BRANCH OUTLET AND STACK SHALL BE MARKED IN ACCORDANCE WITH THE DETAILS AT THE TIME OF CONSTRUCTION, BEGINNING AT THE INVERT ELEVATION OF THE STUB OR WYE AND AT AN ELEVATION TWO FEET BELOW THE CAPPED TERMINATION POINT OF THE STACK AND EXTENDING TWO FEET ABOVE FINISHED GRADE.
- 5. SANITARY SEWER MANHOLES SHALL BE CONSTRUCTED AS PER DRAWINGS INCORPORATED IN CITY OF SUGAR LAND STANDARD CONSTRUCTION DETAILS SHEETS. SUCH MANHOLES SHALL BE CONSTRUCTED A MINIMUM OF ONE FOOT FROM BACK OF CURB ON CURB AND GUTTER ROADWAYS AND THREE FEET FROM EDGE OF TRAVELED ROADWAY ON THOSE THOROUGHFARES HAVING NO CURBING, MEASURED FROM OUTSIDE DIAMETER OF MANHOLE. ALL SANITARY SEWER MANHOLES SHALL INCORPORATE INFLOW PROTECTORS. SANITARY SEWER MANHOLES SHALL NOT BE INSTALLED BENEATH STREET PAVING EXCEPT WHERE SPECIFICALLY AUTHORIZED BY CITY ENGINEER AND SO DESIGNATED ON APPROVED CONSTRUCTION DRAWINGS. BRICK MANHOLES AND FIBERGLASS MANHOLES ARE PROHIBITED. MANHOLES DEEPER THAN EIGHT FEET SHALL HAVE ECCENTRIC CONES.
- 6. SANITARY SEWER MANHOLE COVERS SHALL BE MINIMUM OF 32 INCHES IN DIAMETER. ALL SUCH MANHOLE COVERS SHALL HAVE THE CITY OF ANGLETON EMBLEM AND THE WORDS "ANGLETON" AND "SANITARY SEWER" CAST IN RAISED RELIEF AS DEPICTED IN CITY OF ANGLETON STANDARD CONSTRUCTION DETAILS SHEETS.
- 7. MANHOLE RIM ELEVATIONS SHOWN ON PLANS ARE APPROXIMATE ONLY. UTILITY CONTRACTORS SHALL ADJUST RIM ELEVATIONS TO 0.4 FEET ABOVE FINISHED GRADE, AND 0.5 FEET ABOVE NATURAL GROUND WITHIN RIGHTS—OF—WAY AND EASEMENTS AT EACH MANHOLE LOCATION AFTER PAVEMENT CONTRACTOR HAS COMPLETED FINAL GRADING. THE AREA ADJACENT TO SANITARY SEWER MANHOLE LOCATIONS SHALL BE GRADED AWAY FROM SUCH MANHOLES SO AS PREVENT ENTRY OF STORM WATER RUNOFF TO THE SANITARY SEWER SYSTEM.
- 8. MINIMUM SEPARATION DISTANCES AS REQUIRED BY TCEQ SECTION 317.13, APPENDIX E MUST BE MAINTAINED BETWEEN POTABLE WATER LINES AND SANITARY SEWERS, FORCE MAINS, MANHOLES, LIFT STATIONS AND WASTEWATER TREATMENT PLANTS. INSTALLATION OF FIRE HYDRANTS WITHIN NINE FEET OF A SANITARY SEWER SYSTEM IS PROHIBITED. REFER TO THE CITY OF SUGAR LAND INFRASTRUCTURE STANDARDS AND CORRESPONDING STANDARD CONSTRUCTION DETAILS SHEETS FOR CONSTRUCTION REQUIREMENTS OF OTHER INSTALLATIONS WHERE SEPARATION DISTANCES OF GREATER THAN NINE FEET CANNOT BE MAINTAINED.
- 9. TESTING OF SANITARY SEWERS, FORCE MAINS, MANHOLES, LIFT STATIONS AND WASTEWATER TREATMENT PLANTS SHALL BE CONDUCTED AS NOTED IN SANITARY SEWER CHAPTER OF THE CITY OF SUGAR LAND DESIGN STANDARDS AND AS PER THE REQUIREMENTS OF THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY "DESIGN CRITERIA FOR SEWERAGE SYSTEMS".
- 10. ALL SANITARY SEWER PIPING AND BEDDING SHALL BE INSPECTED BY CITY CONSTRUCTION INSPECTOR FOR CONFORMANCE WITH CITY DESIGN STANDARDS PRIOR TO BACKFILLING OF PIPING IN TRENCH. CONTRACTOR SHALL NOT COVER PIPING UNTIL SUCH TIME AS INSPECTOR HAS NOTIFIED CONTRACTOR THAT RESULTS OF PIPING INSPECTION ARE SATISFACTORY AND THAT BACKFILLING MAY BE ACCOMPLISHED. ANY PIPING INSTALLED AND/OR BACKFILLED WITHOUT INSPECTOR'S SPECIFIC APPROVAL SHALL BE UNCOVERED AT INSPECTOR'S DIRECTION AND INSPECTED ACCORDINGLY. CONTRACTOR SHALL NOTIFY INSPECTOR
- 11. ALL COMMERCIAL DEVELOPMENTS WITH A FAR SIDE SANITARY SERVICE LEAD ACROSS THE STREET SHALL PROVIDE A SIX (6) INCH RISER AND CLEAR OUT ON THE PROPERTY SIDE. PUBLIC MAINTENANCE OF THE FAR SIDE LEAD SHALL END AT THIS RISER

# WATER DISTRIBUTION NOTES:

- 1. WATER MAINS, WATER SERVICE LINES AND ASSOCIATED APPURTENANCES SHALL BE DESIGNED AND CONSTRUCTED AS PER REQUIREMENTS OF THE CITY OF SUGAR LAND DESIGN STANDARDS AND CORRESPONDING STANDARD CONSTRUCTION DETAILS SHEETS AND AS PER THE REQUIREMENTS OF THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY. SHOULD A CONFLICT ARISE BETWEEN INFORMATION DEPICTED ON APPROVED CONSTRUCTION DRAWINGS AND/OR INFORMATION INCLUDED IN PROJECT SPECIFICATIONS, CITY OF SUGAR LAND DESIGN STANDARDS SHALL GOVERN.
- 2. ALL MATERIALS AND PRODUCTS USED IN THE CONSTRUCTION OF WATER MAINS, WATER SERVICE LINES AND ASSOCIATED APPURTENANCES SHALL COMPLY WITH THE CITY OF SUGAR LAND DESIGN STANDARDS AND THE CURRENT APPROVED PRODUCTS LIST AS MAINTAINED BY THE CITY'S ENGINEERING DEPARTMENT.
- 3. ALL GATE VALVES INSTALLED BELOW GRADE SHALL BE OF NON-RISING STEM DESIGN.
- 4. ALL FIRE HYDRANTS SHALL BE PAINTED AND/OR REPAINTED WITH GEO-GLEN 301 BRIGHT SILVER POLYURETHANE ENAMEL MANUFACTURED BY GEO-GLEN ENTERPRISES, INC. SURFACE PREPARATION SHALL INCLUDE REMOVAL OF OIL, GREASE AND MOISTURE, FOLLOWED BY MEDIA BLASTING TO SSPC-SP15-10-63 SPECIFICATIONS (NEAR WHITE METAL) AS PER MANUFACTURER'S RECOMMENDATIONS. PRIME BARE METAL WITH TP-251 EPOXY PRIMER EPOXY PRIMER OR WITH TP-221, TP-231 OR TP-241 UNIVERSAL PRIMER. BOT AND 50% RELATIVE HUMIDITY ARE OPTIMAL CONDITIONS FOR APPLICATION OF PRIMER AND OF PAINT. DO NOT APPLY PRIMER AND/OR PAINT WHEN SURFACE TO BE PAINTED IS LESS THAN 5' ABOVE THE DEW POINT IN ORDER TO PREVENT MOISTURE FROM CONDENSING ON THE SURFACE TO BE PRIMED AND/OR PAINTED. A BLUE TRAFFIC BUTTON SHALL BE INSTALLED ON THE STREET 12" OFF THE CENTER LINE FOR EACH HYDRANT.

- 5. MINIMUM SEPARATION DISTANCES AS REQUIRED BY TCEQ SECTION 317.13, 290. APPENDIX E MUST BE MAINTAINED BETWEEN POTABLE WATER LINES AND SANITARY SEWERS, FORCE MAINS, LIFT STATIONS AND WASTEWATER TREATMENT PLANTS. INSTALLATION OF FIRE HYDRANTS WITHIN 9' (FT) OF A SANITARY SEWER SYSTEM IS PROHIBITED. REFER TO C.O.S.L. STANDARDS FOR CONSTRUCTION REQUIREMENTS OF OTHER INSTALLATIONS WHERE DISTANCES ARE GREATER THAN 9' (NINE) FT. CANNOT BE MAINTAINED.
- 6. EACH WATER SERVICE LEAD STUB SHALL BE MARKED WITH A PRESSURE TREATED 4 X 4 TIMBER OR PVC PIPE AT THE TIME OF CONSTRUCTION, BEGINNING AT THE INVERT ELEVATION OF THE STUB AND EXTENDING TWO FEET ABOVE FINISHED GRADE. EACH TIMBER MARKER SHALL BE PAINTED BLUE AND LABELED "POTABLE WATER" WITH PIPE SIZE NOTED.
- 7. TESTING OF WATER MAINS, WATER SERVICE LINES AND ASSOCIATED APPURTENANCES SHALL BE CONDUCTED AS PER REQUIREMENTS OF AWWA C605-94.
- 8. DISINFECTION OF WATER MAINS, WATER SERVICE LINES AND ASSOCIATED APPURTENANCES SHALL BE CONDUCTED AS PER REQUIREMENTS OF AWWA C651 AND TCEQ. NO CONNECTIONS SHALL BE MADE TO EXISTING WATER LINES UNTIL NEWLY CONSTRUCTED WATER LINES HAVE BEEN THOROUGHLY DISINFECTED, TESTED, FLUSHED, AND SAMPLED AND CONNECTION HAS BEEN AUTHORIZED BY THE CITY ENGINEER.
- 9. ALL WATER PIPING AND BEDDING SHALL BE INSPECTED BY THE CITY INSPECTOR FOR CONFORMANCE TO DESIGN STANDARDS PRIOR TO BACKFILLING OF PIPING IN TRENCH. CONTRACTOR SHALL NOT COVER PIPING UNTIL SUCH TIME AS INSPECTOR HAS NOTIFIED CONTRACTOR THAT RESULTS OF PIPING INSPECTION ARE SATISFACTORY AND THAT BACKFILLING MAY BE ACCOMPLISHED. ANY PIPING INSTALLED AND/OR BACKFILLED WITHOUT INSPECTOR'S SPECIFIC APPROVAL SHALL BE UNCOVERED AT INSPECTOR'S DIRECTION AND INSPECTED ACCORDINGLY. 24—HOUR NOTICE REQUIRED.
- 10. ALL MECHANICALLY RESTRAINED FITTINGS MUST BE MEGALUG RESTRAINED JOINTS OR APPROVED EQUAL.
- 11. THE CITY OF ANGLETON MUST HAVE A COPY OF THE BACTERIOLOGICAL TEST RESULTS AT LEAST 24 HOURS PRIOR TO THE INITIAL INSPECTION. IF NOT, THEN THE INSPECTION WILL BE RESCHEDULED.

# CENTERPOINT ENERGY / ENTEX NOTES CAUTION: UNDERGROUND GAS FACILITIES

LOCATIONS OF CENTERPOINT ENERGY MAIN LINES (TO INCLUDE CENTERPOINT ENERGY, INTRASTATE PIPELINE, LLC. WHERE APPLICABLE) ARE SHOWN IN AN APPROXIMATE LOCATION ONLY. SERVICE LINES ARE NOT USUALLY SHOWN. OUR SIGNATURE ON THESE PLANS ONLY INDICATES THAT OUR FACILITIES ARE SHOWN IN APPROXIMATE LOCATION. IT DOES NOT IMPLY THAT A CONFLICT ANALYSIS HAS BEEN MADE. THE CONTRACTOR SHALL CONTACT THE UTILITY COORDINATING COMMITTEE AT (979) 849—4364 OR 811 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE MAIN AND SERVICE LINES FIELD LOCATED. \* WHEN CENTERPOINT ENERGY PIPE LINE MARKINGS ARE NOT VISIBLE, CALL (800) 752—8036 OR (713) 659—2111 (7:00 A.M. TO 4:30 P.M.) FOR STATUS OF LINE LOCATION REQUEST BEFORE EXCAVATION BEGINS.\* WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF CENTERPOINT ENERGY FACILITIES, ALL EXCAVATION MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES. \* WHEN CENTERPOINT ENERGY FACILITIES ARE EXPOSED, SUFFICIENT SUPPORT MUST BE BE PROVIDED TO THE FACILITIES TO PREVENT EXCESSIVE STRESS ON THE PIPING. \* FOR EMERGENCIES REGARDING GAS LINES CALL (800) 659—2111 OR (713) 659—2111. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY DAMAGES CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND FACILITIES. ACTIVITIES ON OR ACROSS CENTERPOINT ENERGY FEE OR EASEMENT PROPERTY NO APPROVAL TO USE, CROSS OR OCCUPY CENTERPOINT FEE OR EASEMENT PROPERTY IS GIVEN. IF YOU NEED TO USE CENTERPOINT PROPERTY, PLEASE CONTACT OUR SURVEYING & RIGHT OF WAY DIVISION AT (713) 207—5769.

#### WARNING: OVERHEAD ELECTRICAL FACILITIES

OVERHEAD LINES MAY EXIST ON THE PROPERTY. WE HAVE NOT ATTEMPTED TO MARK THOSE LINES SINCE THEY ARE CLEARLY VISIBLE, BUT YOU SHOULD LOCATE THEM PRIOR TO BEGINNING ANY CONSTRUCTION. TEXAS LAW, SECTION 752, HEALTH & SAFETY CODE, FORBIDS ALL ACTIVITIES IN WHICH PERSONS OR THINGS MAY COME WITHIN SIX (6) FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES. PARTIES RESPONSIBLE FOR THE WORK, INCLUDING CONTRACTORS, ARE LEGALLY RESPONSIBLE FOR THE SAFETY OF CONSTRUCTION WORKERS UNDER THIS LAW. THIS LAW CARRIES BOTH CRIMINAL AND CIVIL LIABILITY. TO ARRANGE FOR LINES TO BE TURNED OFF OR REMOVED CALL TEXAS NEW MEXICO ENERGY AT 888-866-7456.

#### SBC NOTES

THE LOCATIONS OF SOUTHWESTERN BELL TELEPHONE CO. UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES.

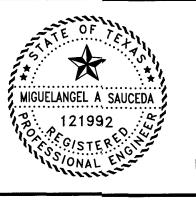
#### TEXAS NEW MEXICO POWER NOTES

OVERHEAD LINES MAY EXIST ON THE PROPERTY. WE HAVE NOT ATTEMPTED TO MARK THOSE LINES SINCE THEY ARE CLEARLY VISIBLE, BUT YOU SHOULD LOCATE THEM PRIOR TO BEGINNING ANY CONSTRUCTION. TEXAS LAW, SECTION 752, HEALTH AND SAFETY CODE FORBIDS ALL ACTIVITIES IN WHICH PERSONS OR THINGS MAY COME WITHIN SIX (6) FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES. PARTIES RESPONSIBLE FOR THE WORK, INCLUDING CONTRACTORS, ARE LEGALLY RESPONSIBLE FOR THE SAFETY OF CONSTRUCTION WORKERS UNDER THIS LAW. THIS LAW CARRIES BOTH CRIMINAL AND CIVIL LIABILITY. TO ARRANGE FOR LINES TO BE TURNED OFF OR REMOVED CALL TEXAS NEW MEXICO POWER AT (888) 866-7456.

BAKER & LAWSON, INC.

ENGINEERS • PLANNERS • SURVEYORS

4005 TECHNOLOGY DRIVE, SUITE 1530
ANGLETON, TEXAS 77515 (979) 849-6681
REG. NO. F-825



The seal appearing on this document was authorized by Miguel Sauceda P.E. 121992

Clint Peltier Clint Peltier Custom Homes 979-481-4840

OWNER:

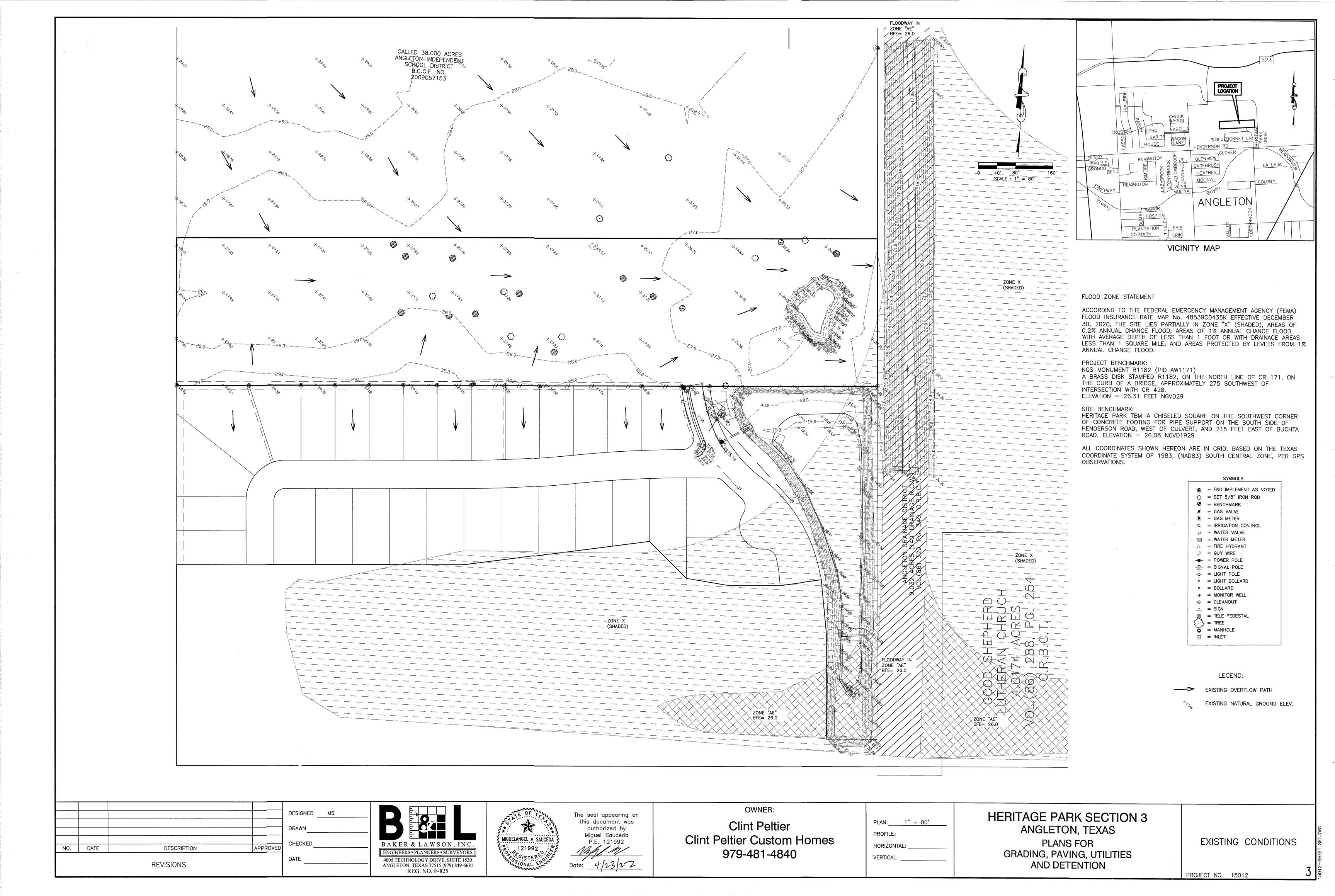
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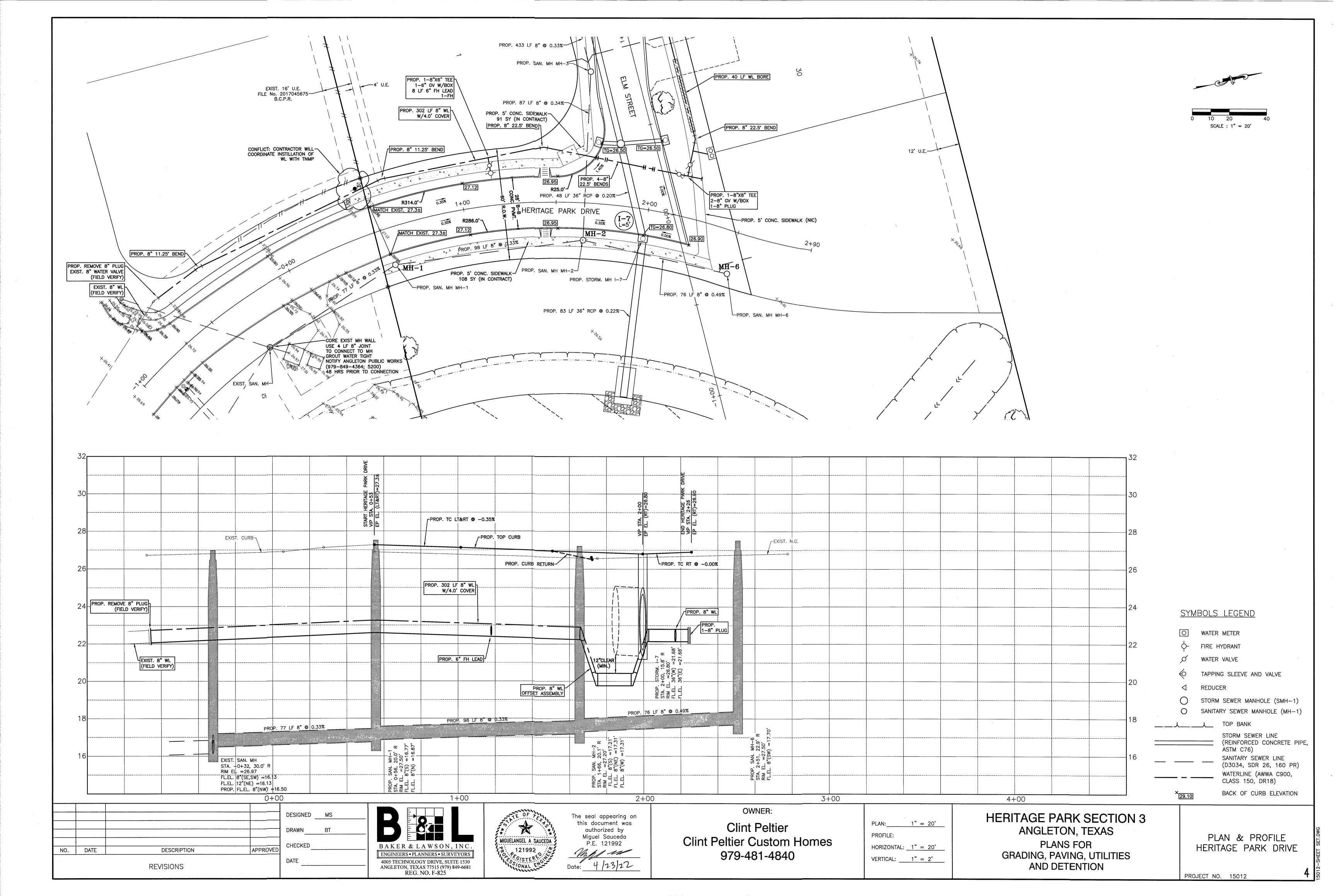
HERITAGE PARK SECTION 3
ANGLETON, TEXAS
PLANS FOR
GRADING, PAVING, UTILITIES
AND DETENTION

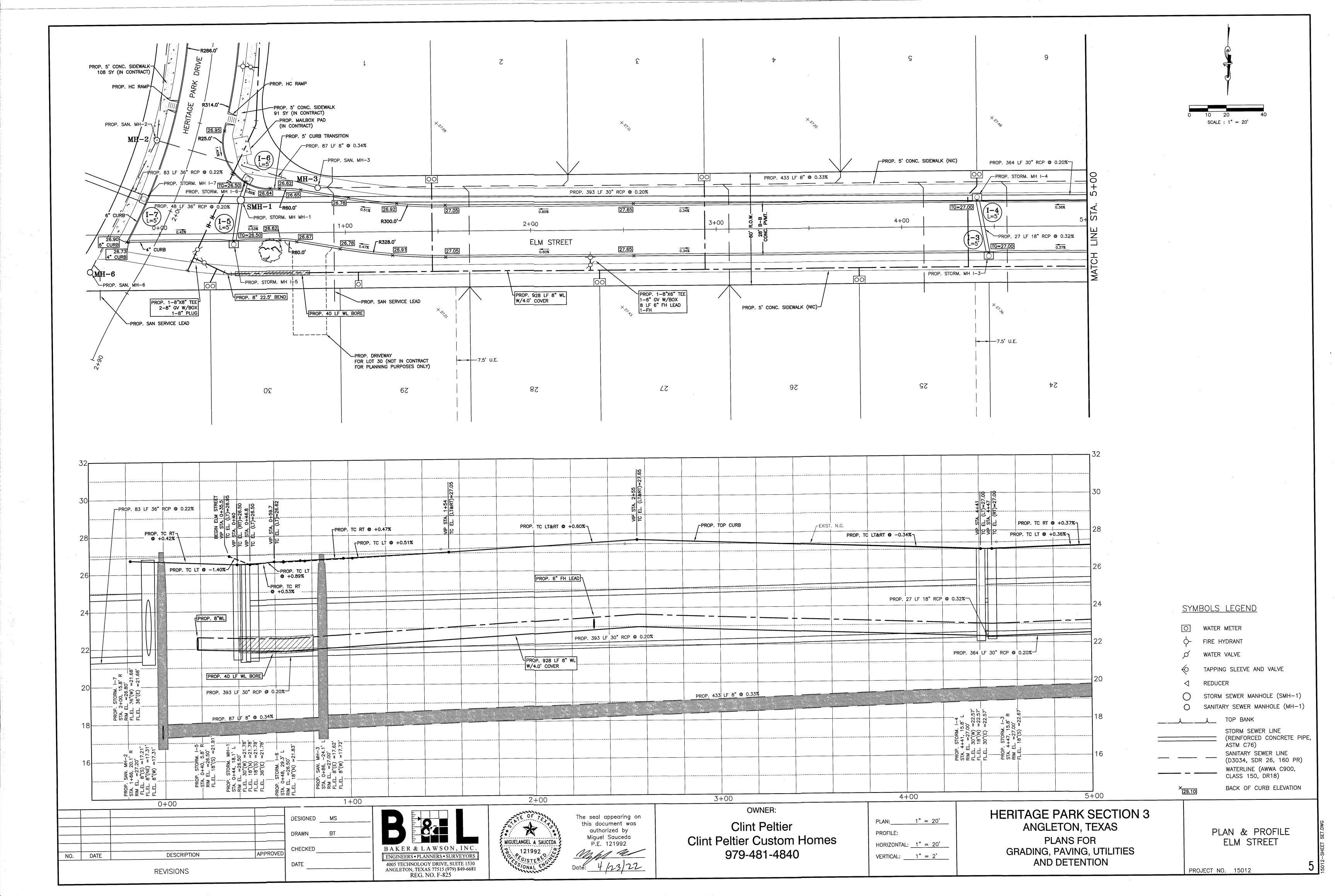
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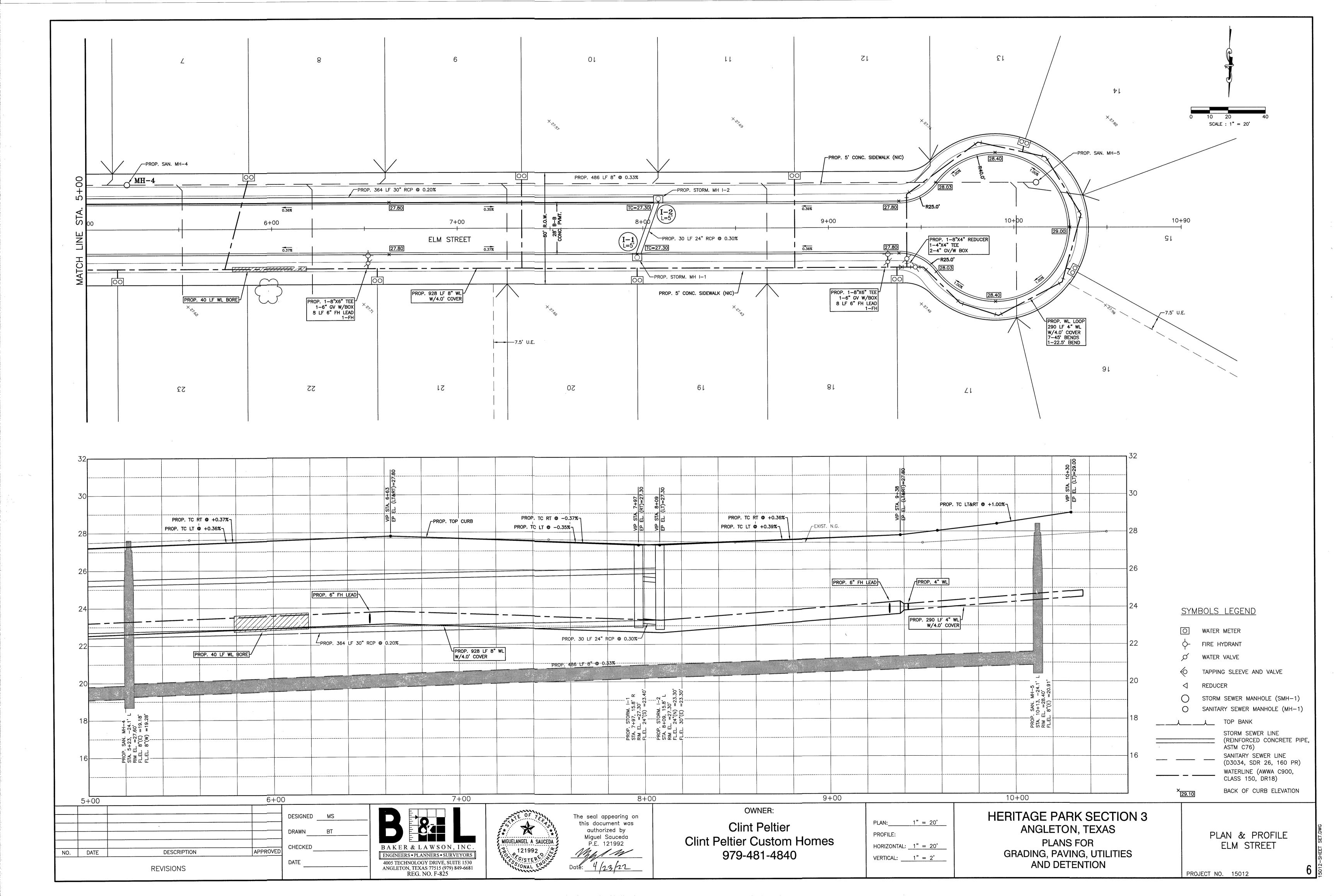
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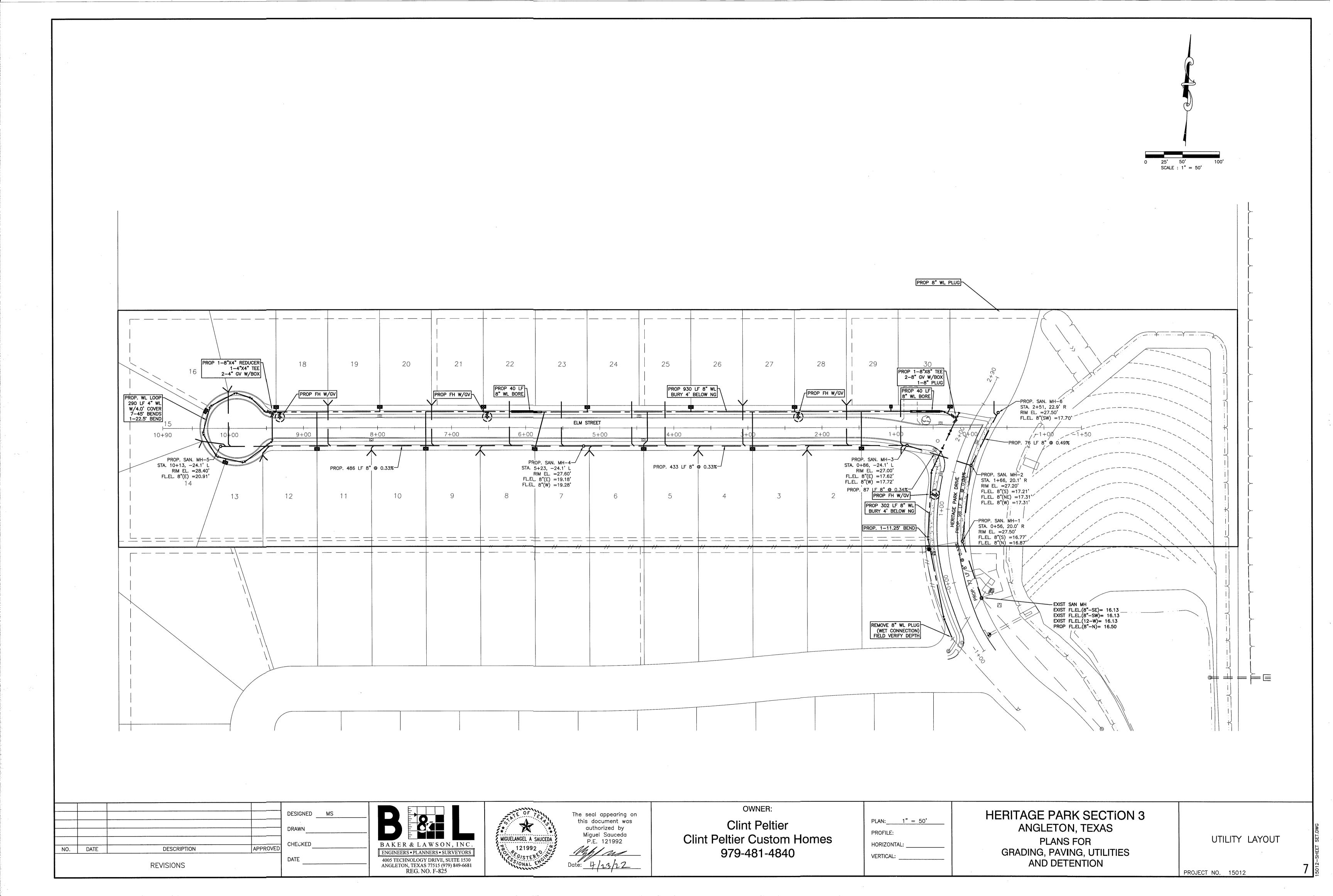
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#### POND INFORMATION

**EXIST POND INFORMATION** 

AVE TOP BANK EL.= 26.70'
AREA TOP BANK = 115,200 SF
FREEBOARD= 1.0'
100-YR WSEL= 25.70'
AREA @ 100-YR WSEL= 107,400 SF
AVE TOE EL.= 20.20'
AREA TOE= 77,800 SF

DETENTION DEPTH= 5.5' AVE AREA= 96,500 SF

**EXIST DETENTION= 530,750 CF = 12.18 AC-FT** 

#### **EXPANDED POND INFORMATION**

AVE TOP BANK EL.= 26.70'
AREA TOP BANK = 187,500 SF
FREEBOARD= 1.0'
100-YR WSEL= 25.70'
AREA @ 100-YR WSEL= 177,800 SF
AVE TOE EL.= 20.90'
AREA TOE= 137,500 SF

DETENTION DEPTH= 4.8' AVE AREA= 157,650 SF

DETENTION PROVIDED = 756,720 CF = 17.37 AC-FT

DETENTION POND EXPANSION ADDS 5.19 AC-FT OF DETENTION WHICH EXCEEDS THE REQUIRE 4.725 AC-FT FOR SECTION 3

#### DETENTION CALCULATIONS (SECTION 3 ONLY)

PRE-DEVELOPMENT FLOW RATE CALCULATION (100-YEAR STORM)

- TC = 15.0 MIN. + 1510 LF GRASS @ 0.5 FPS
- = 65.33 MIN = 4.408 IN/HR
- Q100 = 0.80 CFS/AC x 11.00 ACRES = 8.80 CFS MAXIMUM

ALLOWABLE OUTFALL RATE IN 0.80 CFS PER ACRE ACCORDING TO BRAZORIA COUNTY MASTER DRAINAGE STUDY (BASTROP BAYOU BB35).

## PROPOSED CONDITION (100-YEAR STORM)

- $Q = CIA \times 1.25 PK$
- = 11.0 ACRES

= 0.55

- TC = 15 MIN. + 120 LF GRASS @ 0.5 FPS
  - + 220 LF GUTTER @ 2.0 FPS
  - + 850 LF STM SEW @ 3.0 FPS
  - + 310 LF POND @ 2.0 FPS = 28.8 MIN.
- I = 6.612 IN/HR
- $Q = 0.55 \times 6.612 \times 11.0 \times 1.25 = 50.00 \text{ CFS}$

DETENTION REQUIRED = 4.725 AC-FT = 205,821 CF

# DETENTION CALCULATIONS (SECTION 1-3

PRE-DEVELOPMENT FLOW RATE CALCULATION (100-YEAR STORM)

TC = 15.0 MIN. + 1510 LF GRASS @ 0.5 FPS 1,400

= 6.583 IN/HR

Q100 = 0.80 CFS/AC x 37.40 ACRES = 29.92 CFS MAXIMUM

ALLOWABLE OUTFALL RATE IN 0.80 CFS PER ACRE ACCORDING TO BRAZORIA COUNTY MASTER DRAINAGE STUDY (BASTROP BAYOU BB35).

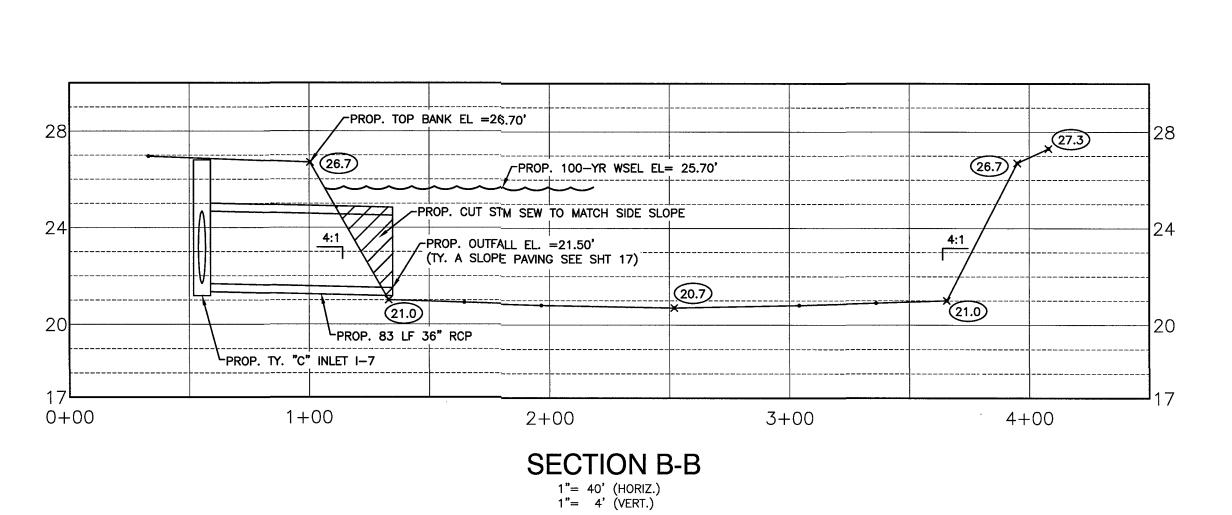
#### PROPOSED CONDITION (100-YEAR STORM)

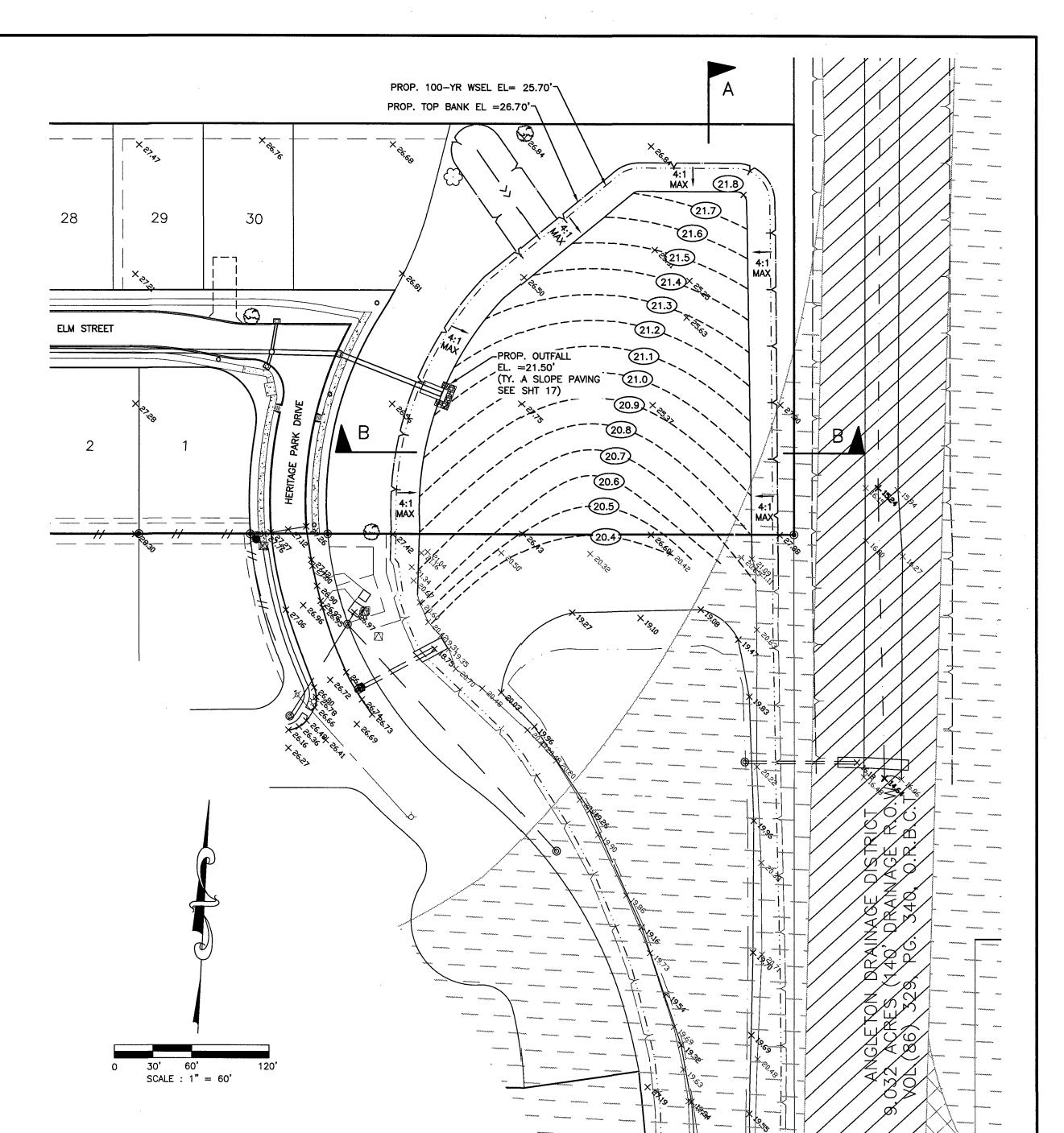
- $Q = CIA \times 1.25 PK$
- A = 37.4 ACRES C = 0.55
- TC = 15 MIN. + 120 LF GRASS @ 0.5 FPS
- + 220 LF GUTTER @ 2.0 FPS

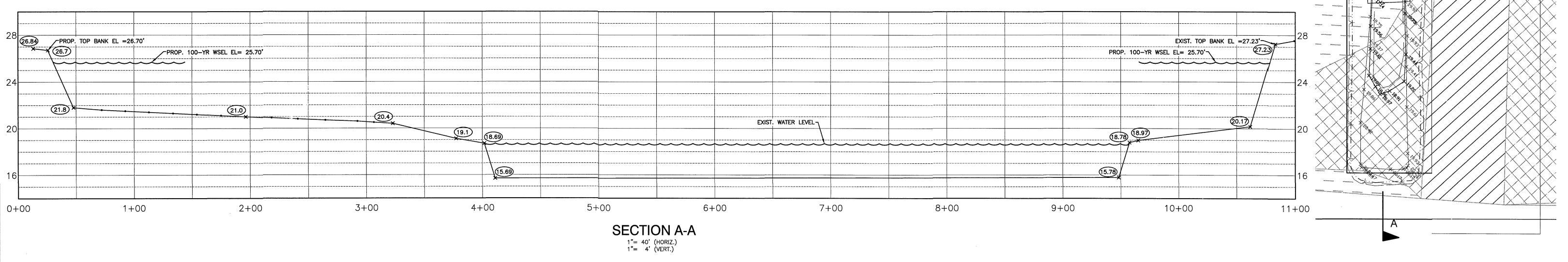
DETENTION REQUIRED = 16.066 AC-FT

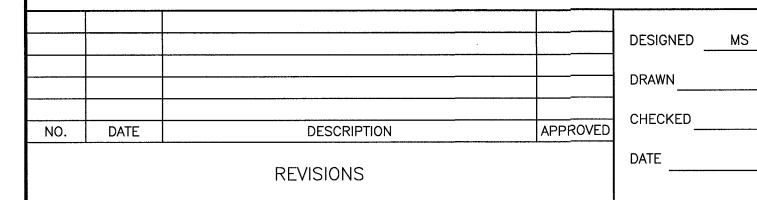
- + 850 LF STM SEW @ 3.0 FPS + 310 LF POND @ 2.0 FPS = 28.8 MIN.
- I = 6.612 IN/HR
- $Q = 0.55 \times 6.612 \times 37.4 \times 1.25 = 170.00 \text{ CFS}$

Q = 0.33 x 0.012 x 37.4 x 1.23 = 170.00 01.









BAKER & LAWSON, INC.

ENGINEERS • PLANNERS • SURVEYORS

4005 TECHNOLOGY DRIVE, SUITE 1530
ANGLETON, TEXAS 77515 (979) 849-6681

**REG. NO. F-825** 

MIGUELANGEL A SAUCEDA

121992

CONSTREE

SONAL ENGLISH

The seal appearing on this document was authorized by Miguel Sauceda P.E. 121992

Clint Peltier Clint Peltier Custom Homes 979-481-4840

OWNER:

PLAN: 1" = 60'

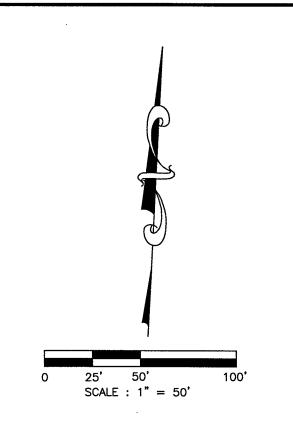
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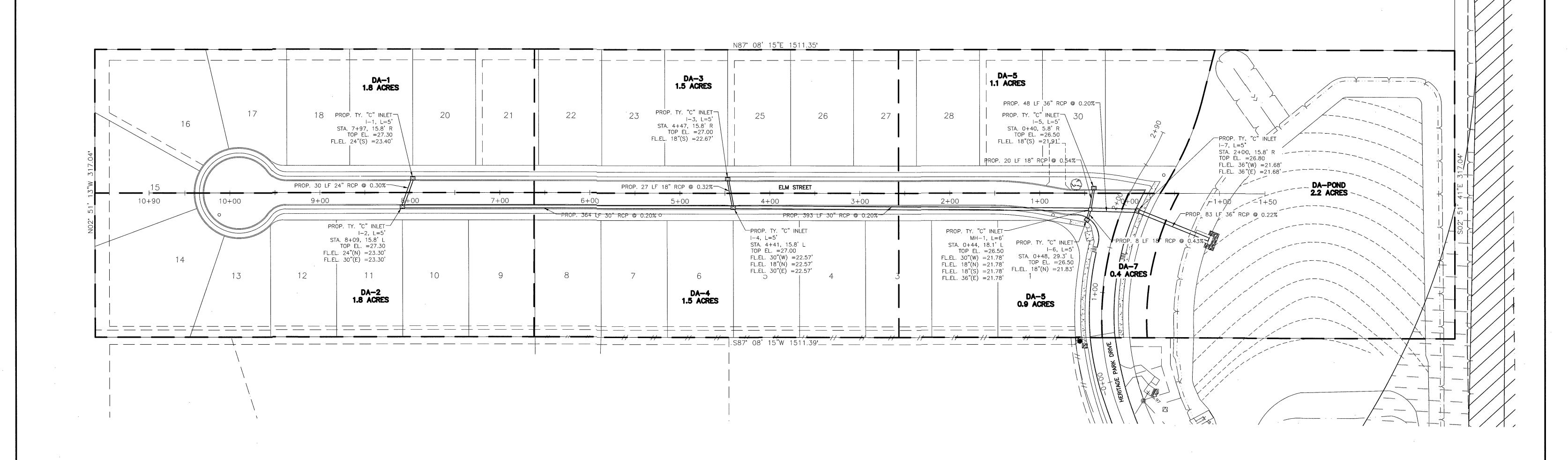
HORIZONTAL: \_\_\_\_\_

VERTICAL: \_\_\_\_\_

HERITAGE PARK SECTION 3
ANGLETON, TEXAS
PLANS FOR
GRADING, PAVING, UTILITIES
AND DETENTION

DETENTION POND LAYOUT & CALCULATIONS





				DESIGNED _	MS
				DRAWN	
NO.	DATE	DESCRIPTION	APPROVED	CHECKED	
		REVISIONS		DATE	,

BAKER & LAWSON, INC.

ENGINEERS • PLANNERS • SURVEYORS

4005 TECHNOLOGY DRIVE, SUITE 1530
ANGLETON, TEXAS 77515 (979) 849-6681
REG. NO. F-825



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Date: 4/23/22

OWNER:

Clint Peltier

Clint Peltier Custom Homes
979-481-4840

PLAN: \_\_\_\_\_1" = 50'

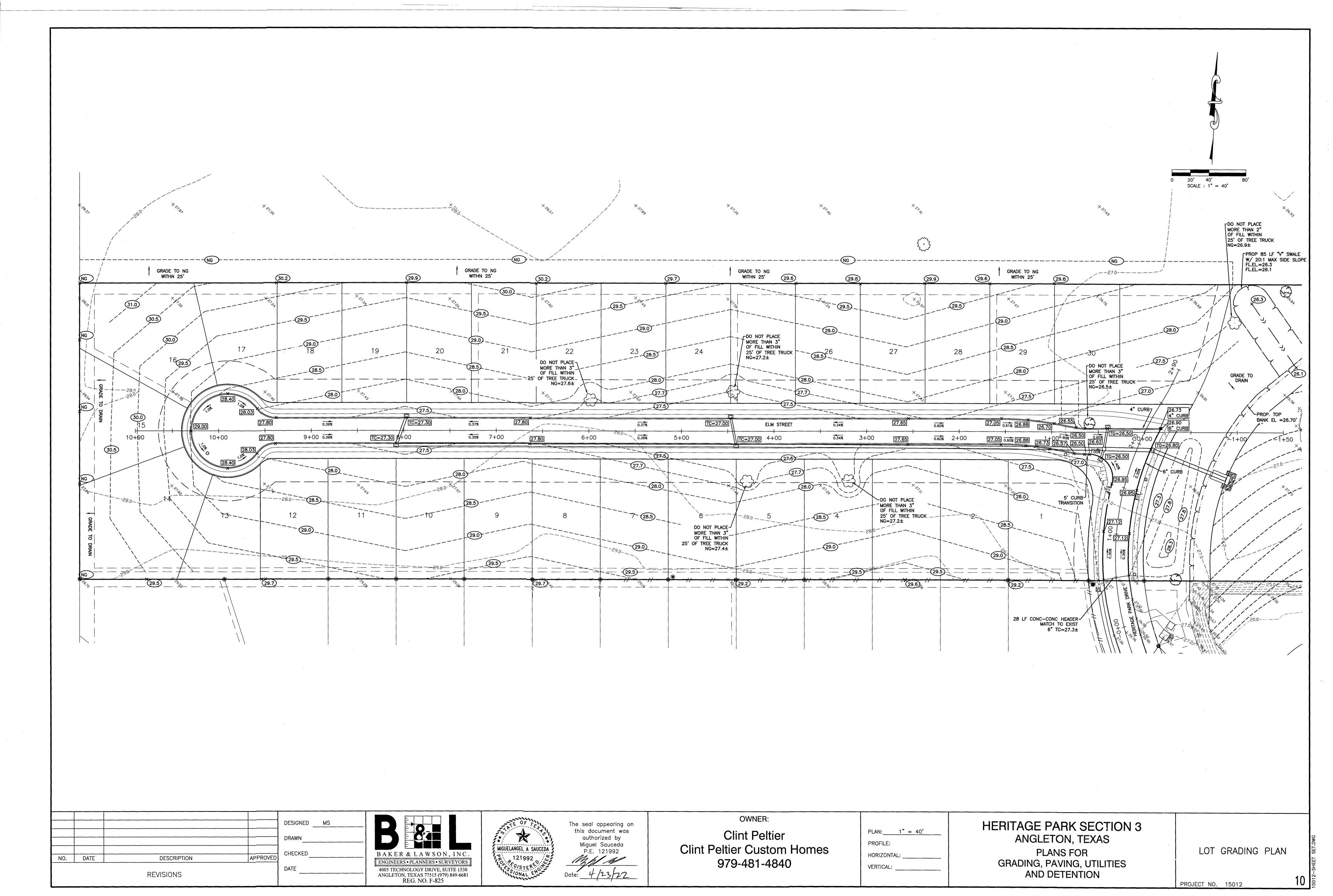
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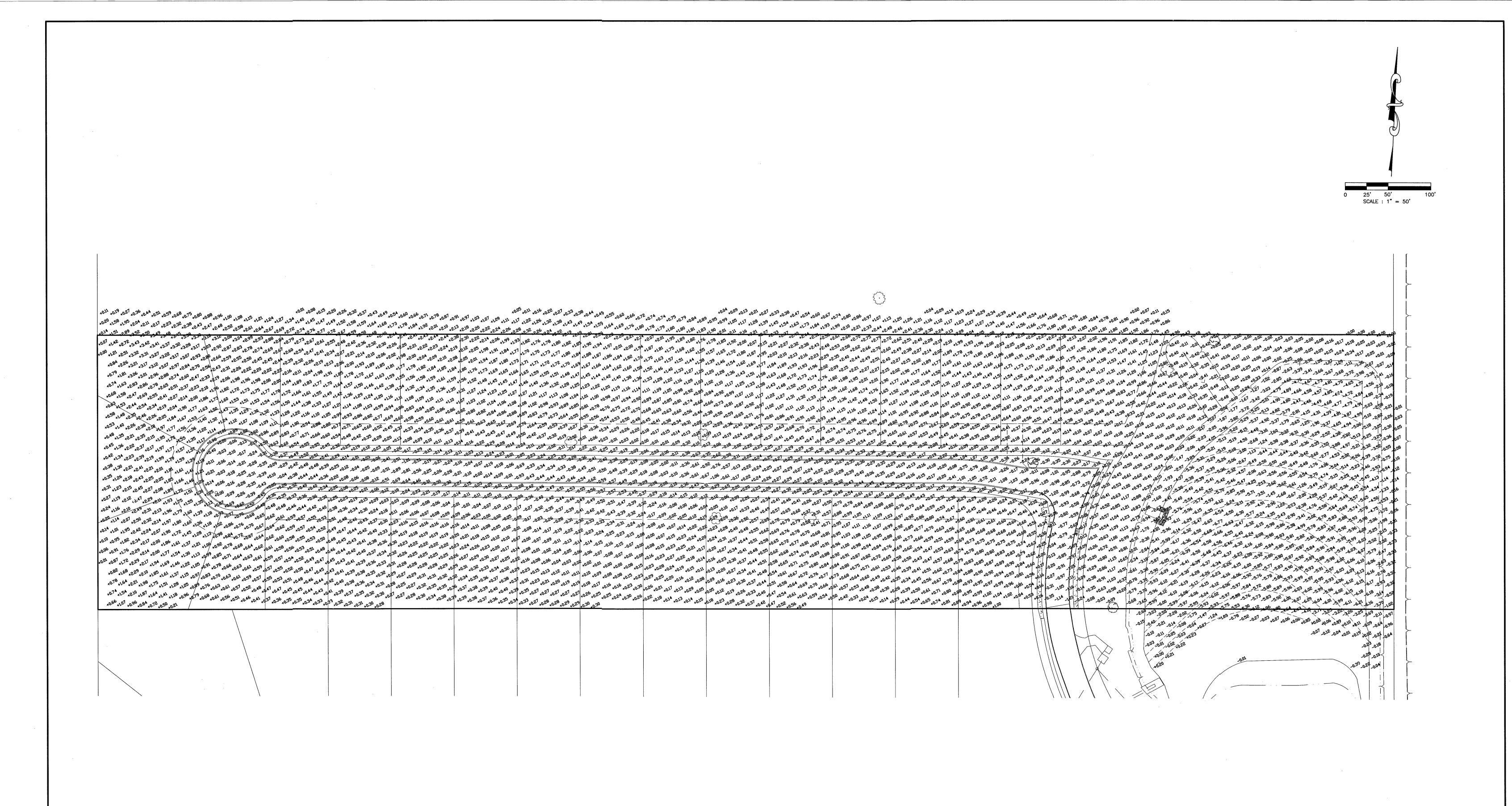
HORIZONTAL: \_\_\_\_\_

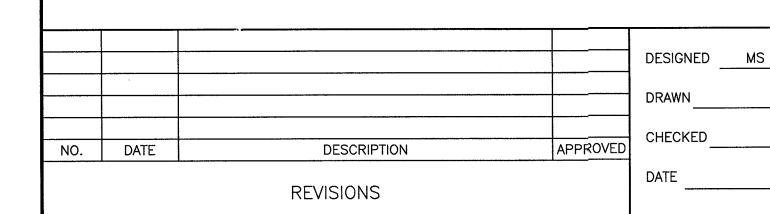
VERTICAL: \_\_\_\_\_

HERITAGE PARK SECTION 3
ANGLETON, TEXAS
PLANS FOR
GRADING, PAVING, UTILITIES
AND DETENTION

DRAINAGE ANALYSIS & STORM SEWER LAYOUT







BAKER & LAWSON, INC.

ENGINEERS • PLANNERS • SURVEYORS

4005 TECHNOLOGY DRIVE, SUITE 1530
ANGLETON, TEXAS 77515 (979) 849-6681
REG. NO. F-825



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Date: 4/23/22

Clint Peltier Clint Peltier Custom Homes 979-481-4840

OWNER:

PLAN: 1" = 50'

PROFILE:

HORIZONTAL: \_\_\_\_\_

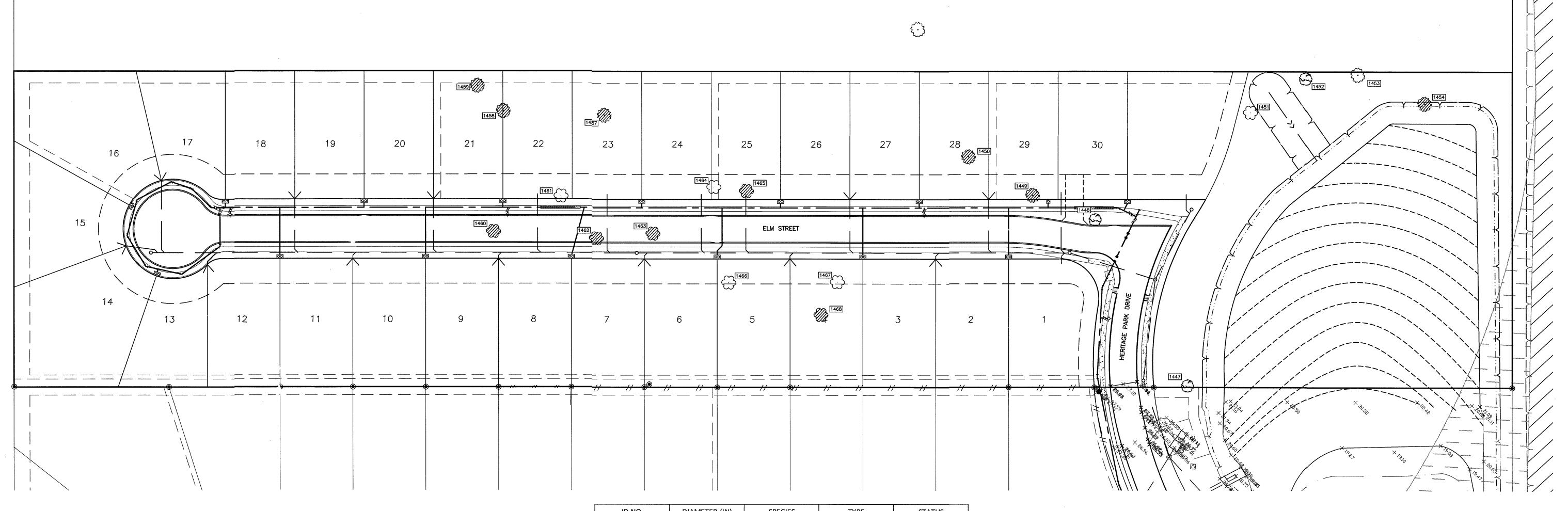
VERTICAL:

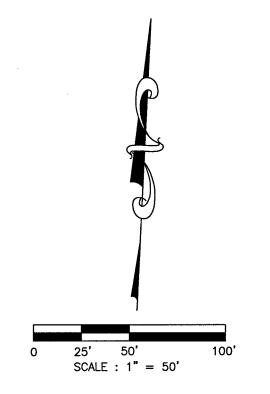
HERITAGE PARK SECTION 3
ANGLETON, TEXAS
PLANS FOR
GRADING, PAVING, UTILITIES
AND DETENTION

CUT AND FILL CALCULATIONS

PROJECT NO. 15012

10A 🖁





TOTAL NUMBER OF HERITAGE TREES = 10 TOTAL CALIPER OF HERITAGE TREES = 213 = 213 IN

= 5 HERITAGE TREES TO BE REMOVED CALIPER OF REMOVED HERITAGE TREES = 102 IN

HERITAGE & SIGNIFICANT TREES TO BE PRESERVED = 8 CALIPER OF HERITAGE/SIGNIFICANT TREES TO BE PRESERVED = 189 IN

REQUIRED REPLACEMENT CALIPER =  $(102 - 189) \times 3 = 0$ 

PER SECTION 23-60.H.7 OF THE ANGLETON LDC, THE HOMEOWNER WILL PROVIDE TWO TREES PER LOT IN ADDITION TO THE REQUIRED REPLACEMENT CALIPER.

NO	REPLACEME	NT TE	REES IS	REC	)UIREI	D IN	THIS	TREE	PRESI	ERVA1	ΠΟΝ	PLAN
	ADDITIONAL ILDER:	TWO	TREES	PER	LOT	WILL	BE	PLANTE	D BY	THE	HON	1E

· · · · · · · · · · · · · · · · · · ·			1	
ID NO.	DIAMETER (IN)	SPECIES	TYPE	STATUS
1447	24	ELM	SIGNIFICANT	PRESERVE
1448	30	ELM	SIGNIFICANT	PRESERVE
1449	12	PERSIMMON	INSIGNIFICANT	REMOVE
1450	24	PERSIMMON	INSIGNIFICANT	REMOVE
1451	12	LIVE OAK	HERITAGE	PRESERVE
1452	24	ELM	SIGNIFICANT	PRESERVE
1453	12	COTTONWOOD	INSIGNIFICANT	REMOVE
1454	12	SUGARBERRY	INSIGNIFICANT	REMOVE
1457	20	PERSIMMON	INSIGNIFICANT	REMOVE
1458	20	RED CEDAR	INSIGNIFICANT	REMOVE
1459	20	RED CEDAR	INSIGNIFICANT	REMOVE
1460	24	LIVE OAK	HERITAGE	REMOVE
1461	24	LIVE OAK	HERITAGE	PRESERVE
1462	12	LIVE OAK	HERITAGE	REMOVE
1463	24	LIVE OAK	HERITAGE	REMOVE
1464	24	LIVE OAK	HERITAGE	PRESERVE
1465	24	LIVE OAK	HERITAGE	REMOVE
1466	15	LIVE OAK	HERITAGE	PRESERVE
1467	36	LIVE OAK	HERITAGE	PRESERVE
1468	18	LIVE OAK	HERITAGE	REMOVE

# **SYMBOLS**

O = SET 5/8" I.R. W/CAP "BAKER & LAWSON"

● = FOUND MONUMENT (AS NOTED)

+ = (TBM) TEMPORARY BENCHMARK

- = POWER POLE

□ = MAIL BOX

□ = WATER METER

= LIVE OAK (HERITAGE TREE)

= PECAN (HERITAGE TREE)

= ELM (SIGNIFICANT TREE)

= INSIGNIFICANT TREE

DRAWN CHECKED APPROVED NO. DATE DESCRIPTION DATE REVISIONS

DESIGNED MS

BAKER & LAWSON, INC. ENGINEERS • PLANNERS • SURVEYORS 4005 TECHNOLOGY DRIVE, SUITE 1530 ANGLETON, TEXAS 77515 (979) 849-6681 REG. NO. F-825



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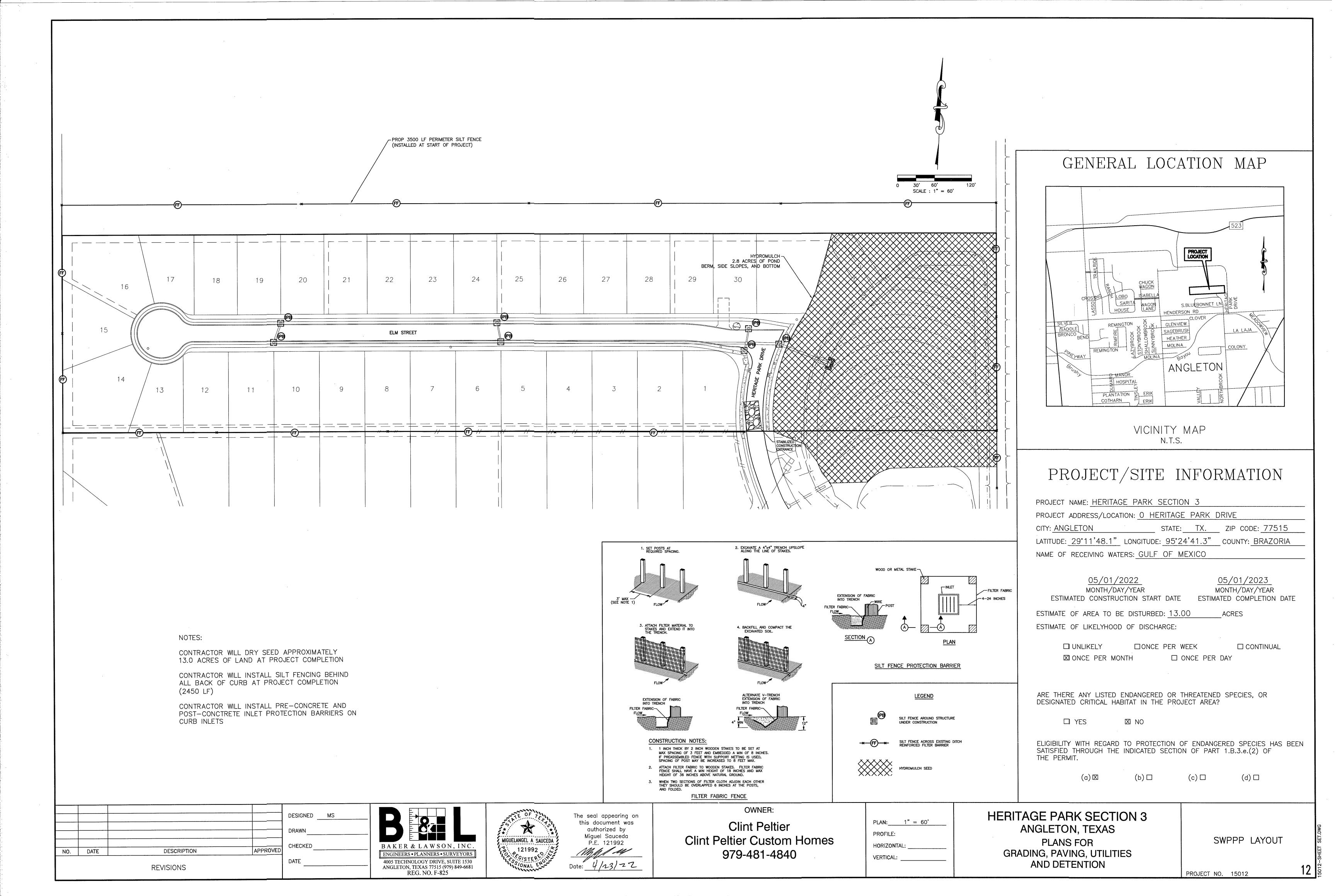
Clint Peltier Clint Peltier Custom Homes 979-481-4840

OWNER:

PLAN: 1" = 50' PROFILE: HORIZONTAL: VERTICAL:

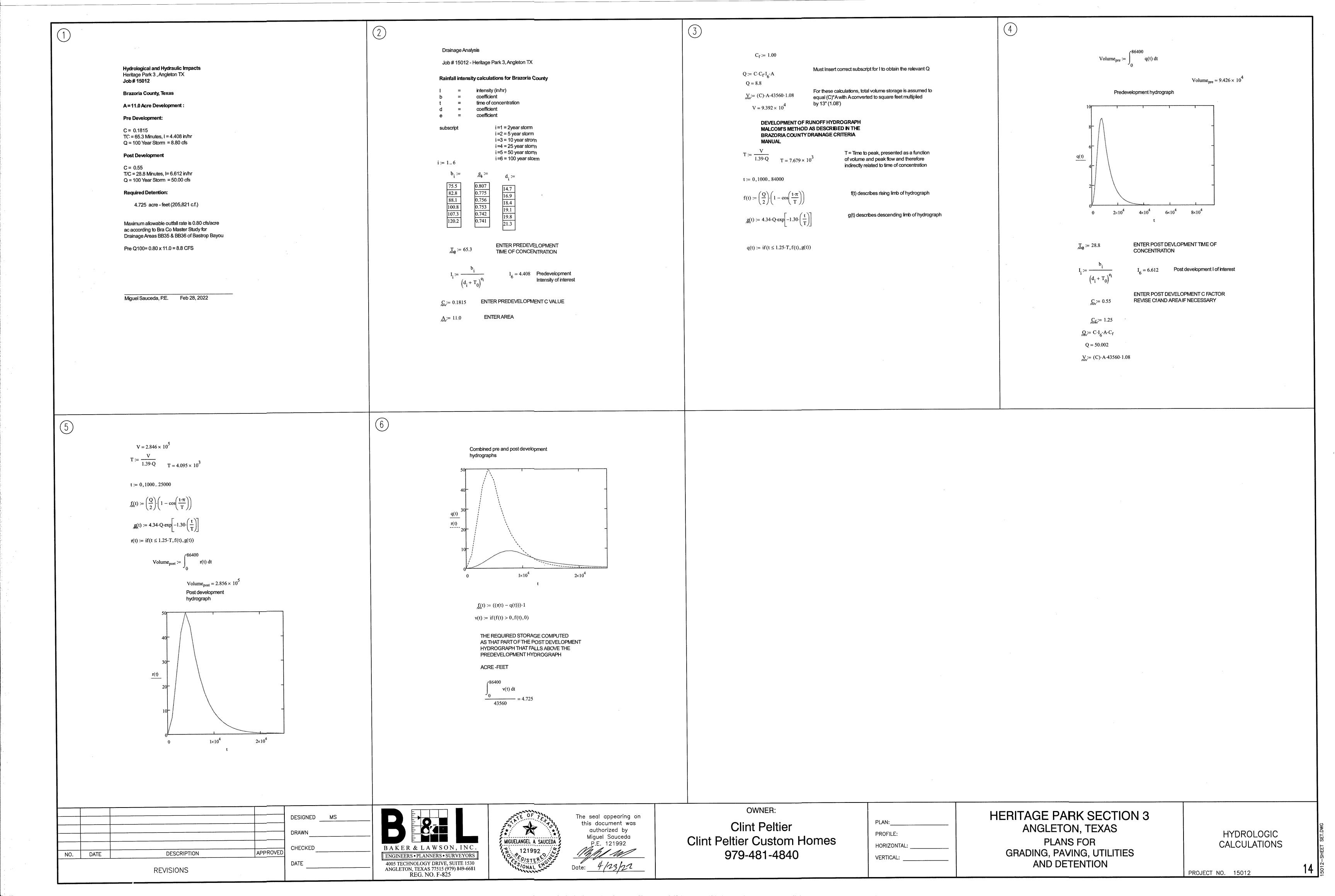
HERITAGE PARK SECTION 3 ANGLETON, TEXAS **PLANS FOR** GRADING, PAVING, UTILITIES AND DETENTION

TREE PRESERVATION PLAN



1. SITE DESCRIPTION	2. CONTROLS	
A. NATURE OF THE CONSTRUCTION ACTIVITY:  HERITAGE PARK, SECTION 3 SUBDIVISION ANGLETON, BRAZORIA COUNTY, TEXAS. BEING  11.0 ACRE DEVELOPED AREA WHICH WILL BE A RESIDENTIAL SUBDIVISION OF 30 LOTS (70'	NARRATIVE — SEQUENCE OF CONSTRUCTION ACTIVITIES AND APPROPRIATE CONTROL MEASURES DURING CONSTRUCTION  THE ORDER OF CONSTRUCTION WILL BEGIN WITH STRIPPING OF ALL VEGETATION FROM THE	C. OTHER CONTROLS  NO SOLID MATERIALS, INCLUDING BUILDING MATERIALS, SHALL BE DISCHARGED TO WATERS OF
WIDE USUALLY). CONSTRUCTION WILL INCLUDE UNDERGROUND UTILITIES, STORM SEWERS,  CONCRETE ROADWAYS WITH CURBS AND DETENTION POND EXCAVATION WITH MATERIAL  SPREAD FOR LOT GRADING.	WORK AREA.  1. INSTALL SILT FENCE AROUND THE PERIMETER OF THE AREA TO BE DISTURBED. THE	THE UNITED STATES, EXCEPT AS AUTHORIZED BY A PERMIT ISSUED UNDER SECTION 404 OF THE CLEAN WATER ACT.
SPREAD FOR LOT GRADING.	ORDER OF ACTIVITIES WILL BEGIN WITH THE COMPLETE STRIPPING OF ALL AREAS TO RECEIVE FILL MATERIAL. REMOVED VEGETATION TO BE STOCKPILED ADJACENT TO THE WORK TO BE	WASTE MATERIALS: ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY
	SPREAD AFTER LOT GRADING IS COMPLETE.  2. REGRADE THE EXISTING POND AND SPREAD MATERIALS ON SITE. INSTALL WATER LINES,  SANITARY SEWER LINES AND MANHOLES AND STORM SEWER PIPES, INLETS AND MANHOLES.	LIDDED METAL CONTAINER. THE CONTAINER SHALL MEET ALL STATE AND CITY SOLID WASTE  MANAGEMENT REGULATIONS. THE CONTAINER SHALL BE EMPTIED AS NECESSARY AND THE  TRASH HAULED TO AN APPROPRIATE DUMP SITE. NO CONSTRUCTION MATERIALS WILL BE
B. INTENDED SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:  STREET RIGHT OF WAY AND LOT AREAS WILL BE STRIPPED OF ALL VEGETATIVE MATTER.  THIS MATERIAL WILL BE STOCKPILED ADJACENT TO THE WORK TO BE SPREAD ON	INSTALL INLET PROTECTION BARRIERS AROUND ALL INLETS. FULLY EXCAVATE THE DETENTION POND TO PROVIDE OUTFALL PATH FOR THE STORM SEWER SYSTEM. INSTALL THE RESTRICTIVE OUTLET.	BURIED ON SITE.
DEVELOPED LOTS AFTER FINAL GRADING. UTILITY AND STORM SEWER CONSTRUCTION WILL REQUIRE TRENCHING. EXCAVATION FOR ROADWAY SUBGRADE AND DETENTION POND WILL INVOLVE SPREADING EXCAVATED MATERIAL ON ADJACENT LOTS. RAINFALL RUNOFF WILL BE	3. ROADWAY EXCAVATION, LIME STABILIZATION AND CONCRETE PAVING WILL FOLLOW UNDERGROUND UTILITY AND STORM SEWER CONSTRUCTION. DURING ROADWAY WORK, THE REMAINDER OF THE DETENTION POND WILL BE EXCAVATED AND MATERIAL SPREAD ON LOTS.	HAZARDOUS WASTE (INCLUDING SPILL REPORTING): AT A MINIMUM, ANY PRODUCTS IN THE
DIRECTED TO THE STREET GUTTERS AND TO THE CONSTRUCTED STORM SEWER SYSTEM.  TRUCKS WILL BE USED TO DELIVER MATERIAL TO THE PROJECT INCLUDING LIME, CONCRETE,  UTILITY AND STORM SEWER MATERIALS AND OTHER CONSTRUCTION MATERIALS. TRUCKS	INSTALL SILT FENCE IN THE BOTTOM OF THE POND UPSTREAM OF THE RESTRICTIVE OUTFALL  CULVERT.  4. AS SOON AS CONCRETE CURBS ARE INSTALLED, INSTALL SILT FENCING BEHIND ALL	FOLLOWING CATEGORIES ARE CONSIDERED TO BE HAZARDOUS: PAINT, CLEANING SOLVENTS,  ASPHALT PRODUCTS, PETROLEUM PRODUCTS, CHEMICAL ADDITIVES FOR SOIL STABILIZATION,  AND CONCRETE CURING COMPOUNDS AND ADDITIVES. IN THE EVENT OF A SPILL WHICH MAY
WILL ALSO BE USED TO HAUL CONSTRUCTION DEBRIS AWAY FROM THE SITE. THESE TRUCKS WILL BE ROUTED ALONG HERITAGE PARK DRIVE FOR INGRESS AND EGRESS. RUTTING DURING WET WEATHER WILL PROVIDE POTENTIAL FOR TRACKING MUD ALONG THE	CURBS.  5. ALL SEEDED AND FERTILIZED AREA TO BE IRRIGATED TO ENSURE GROWTH.	BE HAZARDOUS, THE SPILL COORDINATOR SHOULD BE CONTACTED IMMEDIATELY.
ROUTE.		
C. TOTAL PROJECT AREA: 11.00 ACRES	A. EROSION AND SEDIMENT CONTROLS: EROSION AND SEDIMENT CONTROLS SHALL RETAIN SEDIMENT ON SITE TO THE EXTENT PRACTICABLE. CONTROL MEASURES SHALL BE INSTALLED	SANITARY WASTE: PORTABLE SANITARY FACILITIES WILL BE PROVIDED BY THE CONTRACTOR. ALL  SANITARY WASTE MANAGEMENT CONTRACTOR
D. TOTAL AREA TO BE DISTURBED: 13.00 ACRES  WEIGHTED RUNOFF COEFFICIENT	AND MAINTAINED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS (WHERE APPLICABLE)  AND GOOD ENGINEERING PRACTICES. OFFSITE SEDIMENT ACCUMULATIONS MUST BE REMOVED  AT A FREQUENCY SUFFICIENT TO MINIMIZE OFFSITE IMPACTS. SEDIMENT MUST BE REMOVED	SANITARY WASTE MANAGEMENT CONTRACTOR.
(BEFORE CONSTRUCTION):0.30(AFTER CONSTRUCTION):0.55	FROM SEDIMENT TRAPS OR SEDIMENTATION PONDS WHEN CAPACITY HAS BEEN REDUCED BY  50%. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS EXPOSED TO STORM  WALL SHALL BE PREVENTED FROM BECOMING A POLLUTANT SOURCE FOR STORM WATER	OFFSITE VEHICLE TRACKING SHALL BE MINIMIZED BY:
E. REFER TO GENERAL LOCATION MAP AND SITE MAP FOR DRAINAGE PATTERNS AND APPROXIMATE SLOPES ANTICIPATED AFTER MAJOR GRADING ACTIVITIES; AREAS OF SOIL DISTURBANCE; AREAS WHICH WILL NOT BE DISTURBED; LOCTIONS OF MAJOR STRUCTURAL AND NON-STRUCTURAL	DISCHARGES.	HAUL ROADS DAMPENED FOR DUST CONTROL LOADED  X HAUL TRUCKS TO BE COVERED WITH TARPAULIN X EXCESS DIRT ON ROAD REMOVED DAILY STABILIZED
CONTROLS; LOCATIONS WHERE STABILIZATION PRACTICES ARE EXPECTED TO OCCUR; LOCATION OF OFF-SITE MATERIAL, WASTE, BORROW OR EQUIPMENT STORAGE AREAS; SURFACE WATERS (INCLUDING WETLANDS); AND LOCATIONS WHERE STORM WATER DISCHARGES	SOIL STABILIZATION PRACTICES:  OWNER / GENERAL DEVELOPER CNTRTR. BUILDER OTHER  TEMPORARY SEEDING	CONSTRUCTION ENTRANCE  OTHER: TRUCKS HAULING VEGETATION AND DEBRIS WILL BE MONITORED AND SHALL BE COVERED
TO A SURFACE WATER.	PERMANENT PLANTING, SODDING, OR SEEDING  MULCHING— WHERE INDICATED  X	WITH TARPAULINS IF REQUIRED TO PREVENT DUST OR OTHER PARTICLES FROM BLOWING OR  FALLING FROM TRUCK.
F. LOCATION AND DESCRIPTION OF ANY DISCHARGE ASSOCIATED WITH INDUSTRIAL ACTIVITY OTHER THAN CONSTRUCTION:	SOIL RETENTION BLANKET  VEGETATIVE BUFFER STRIPS  PRESERVATION OF NATURAL RESOURCES	
INDUSTRIAL ACTIVITY OTHER THAN CONSTRUCTION.	OTHER:  THE FOLLOWING RECORDS SHALL BE MAINTAINED AND ATTACHED TO THIS SWPPP:	REMARKS: ALL OPERATIONS WILL BE CONDUCTED IN A MANNER THAT WILL MINIMIZE AND  CONTROL THE AMOUNTS OF SEDIMENT THAT MAY ENTER THE RECEIVING WATERS. DISPOSAL  AREAS SHALL NOT BE LOCATED IN ANY WETLAND, WATERBODY, OR STREAMBED. CONSTRUCTION
	DATES WHEN MAJOR GRADING ACTIVITIES OCCUR, DATES WHEN CONSTRUCTION ACTIVITIES  TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE, DATES WHEN	STAGING AREAS AND VEHICLE MAINTENANCE AREAS SHALL BE CONSTRUCTED BY THE CONTRACTOR IN A MANNER TO MINIMIZE THE RUNOFF OF POLLUTANTS.
G. NAME OF RECEIVING WATERS:  RUNOFF WILL BE COLLECTED IN THE STORM SEWER SYSTEM AND ROUTED TO THE DETENTION	STABILIZATION MEASURES ARE INITIATED.	
POND. THE POND OUTFALLS INTO RANCHO DITCH WHICHT THEN OUTFALLS TO BRUSHY BAYOU,  AND THEN TO THE GULF OF MEXICO.	STRUCTURAL PRACTICES:  OWNER / GENERAL DEVELOPER CNTRTR. BUILDER OTHER	3. MAINTENANCE
	REINFORCED SILT FENCES  HAY BALES  ROCK BERMS	ALL EROSION AND SEDIMENT CONTROLS WILL BE MAINTAINED IN EFFECTIVE OPERATING  CONDITION. IF A REPAIR IS NECESSARY IT SHALL BE DONE AT THE EARLIEST TIME POSSIBLE,  BUT NO LATER THAN SEVEN CALENDAR DAYS AFTER THE GROUND HAS DRIED SUFFICIENTLY TO
AREAL EXTENT AND DESCRIPTION OF WETLAND OR SPECIAL AQUATIC SITE AT OR NEAR THE SITE WHICH WILL BE DISTURBED OR WHICH WILL RECEIVE DISCHARGES FROM DISTURBED	DIVERSION, INTERCEPTOR, OR PERIMETER DIKES  DIVERSION, INTERCEPTOR, OR PERIMETER SWALES	PREVENT FURTHER DAMAGE FROM HEAVY EQUIPMENT. THE AREAS ADJACENT TO DRAINAGE WAYS  SHALL HAVE PRIORITY, FOLLOWED BY DEVICES PROTECTING STORM SEWER INLETS.  MAINTENANCE SHALL BE PERFORMED BEFORE THE NEXT ANTICIPATED STORM EVENT OR AS
NONE	DIVERSION DIKE AND SWALE COMBINATIONS  PIPE SLOPE DRAINS  ROCK BEDDING AT CONSTRUCTION EXIT  X	SOON AS PRACTICABLE.
	TIMBER MATTING AT CONSTRUCTION EXIT  SEDIMENT TRAPS	4. INSPECTION WILL BE REPEORMED BY THE DEPMITE EVERY FOURTEEN DAYS AS WELL AS
	SEDIMENT BASINS STORM INLET PROTECTION STONE OUTLET STRUCTURES	AN INSPECTION WILL BE PERFORMED BY THE PERMITEE EVERY FOURTEEN DAYS AS WELL AS  AFTER EVERY ONE—HALF INCH OR GREATER RAINFALL EVENT. AN INSPECTION AND RAINFALL  REPORT WILL BE MADE AFTER EACH INSPECTION. ANY DEFICIENCIES WILL BE NOTED AND
LL DEFER TO FEDERAL RECISTER VOLUME 63 NO 128 MONDAY JULY 6, 1998, PAGES 36497 TO	OTHER:	APPROPRIATE CHANGES SHALL BE MADE TO THE SYSTEM TO COMPLY WITH REQUIREMENTS.
H. REFER TO FEDERAL REGISTER, VOLUME 63, NO.128, MONDAY JULY 6, 1998, PAGES 36497 TO 36515 FOR REQUIREMENTS OF NPDES GENERAL PERMITS FOR STORM WATER DISCHARGES FROM CONSTRUCTION ACTIVITIES IN REGION 6.	TO TO THE TAXABLE PARTY AND A CONTROL OF THE CONTROL	5. NON-STORMWATER DISCHARGES
I. LISTED ENDANGERED OR THREATENED SPECIES OR CRITICAL HABITAT FOUND IN PROXIMITY TO THE CONSTRUCTION ACTIVITY:	B. STORM WATER MANAGEMENT MEASURES INSTALLED DURING CONSTRUCTION TO CONTROL POLLUTANTS IN STORM WATER DISCHARGES THAT WILL OCCUR AFTER CONSTRUCTION:  CURBS & GUTTERS STORM SEWERS	FIRE HYDRANT FLUSHING  X BUILDING WASHDOWN WITHOUT DETERGENTS
NONE		X PAVEMENT WASHDOWN WITHOUT DETERGENTS X CONDENSATE UNCONTAMINATED GROUNDWATER
J. PROPERTY LISTED OR ELIGIBLE FOR LISTING ON THE NATIONAL REGISTER OF HISTORIC PLACES:		UNCONTAMINATED FOUNDATION DRAINS
NONE		
DESIGNED MS	The seal appearing on this document was authorized by Clint Peltier	HERITAGE PARK SECTION 3
DRAWN CHECKED BAKER & LAWSON, INC	Miguel Sauceda P.E. 121992  Clint Peltier Custom Homes	ANGLETON, TEXAS  PROFILE:  HORIZONTAL:  CRADING PAYING LITH ITES
DESCRIPTION  APPROVED  DATE  REVISIONS  DESCRIPTION  APPROVED  DATE  DATE  DATE  FIGURERS • PLANNERS • SURVEYORS  4005 TECHNOLOGY DRIVE, SUITE 1530  ANGLETON, TEXAS 77515 (979) 849-668  REG. NO. F-825	9/9-481-484U	VERTICAL: GRADING, PAVING, UTILITIES  AND DETENTION PROJECT NO. 15012
125.7,6.7 525		

NO. DATE



Version 3.05, Jan. 25, 2002 Run @ 2/21/2022 12:28:43 PM

PROJECT NAME: Heritage Park 3
JOB NUMBER: 15012
PROJECT DESCRIPTION:
DESIGN FREQUENCY: 5 Years
ANALYSIS FREQUENCY: 100 Years
MEASUREMENT UNITS: ENGLISH

OUTPUT FOR DESIGN EREQUENCY of: 5 Year

	OUTPUT FOR DE	SIGN FREQUENCY of	: 5 Years	=======================================	= <del>==</del>		
unoff ===:	Computation for Des	sign Frequency.	==========		=====		=========
)	C Value Area (acre)	Tc Tc Used ) (min) (min)	Intensity (in/hr)	Supply Q (cfs)	Total Q (cfs)		
1 2 3 4 5	0.55 1.80 0.55 1.80 0.55 1.50 0.55 1.50 0.55 1.10 0.55 0.90	15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00	6.64 6.64 6.64 6.64 6.64 6.64	0.000 0.000 0.000 0.000 0.000 0.000		6.578 6.578 5.481 5.481 4.020 3.289	
λ−7 	0.55 0.40	15.00 15.00	6.64	0.000		1.462	
Sag In	lets Configuration Da	nta.					
	Inlet Length/ Grate Type Perim. Area (ft) (s	Left-Slope Right- a Long Trans Lo	Slope Gutter	- Depth DeprW Allo	Critic owed ft)	Elev. (ft)	
\−1 \−2	Curb 5.00 I	n/a 0.50 2.00 n/a 0.50 2.00	0.50 2.00 0.0 0.50 2.00 0.0	14 1.50	0.50 0.50	27.30 27.30 27.00	
\-3 \-4	Curb 5.00 i	n/a 0.50 2.00 n/a 0.50 2.00 n/a 0.50 2.00	0.50 2.00 0.0 0.50 2.00 0.0 0.50 2.00 0.0	14 1.50	0.50 0.50 0.50	27.00 27.00 26.50	
\-5 \-6 \-7	Curb 5.00	n/a 0.50 2.00 n/a 0.50 2.00 n/a 0.50 2.00	0.50 2.00 0.0 0.50 2.00 0.0	14 1.50	0.50 0.50	26.50 26.80	
	lets Computation Da			<del></del>			
nlet ID	Inlet Length G Type (ft)	======================================	Inlet Total Capacity (cfs) (f	Head Let	dth		
 \-1 \-2	Curb 5.00 Curb 5.00		.578 6.718 .578 6.718			12.20 12.20	
\_3 \_4	Curb 5.00 Curb 5.00	n/a n/a 5	.481 6.261 .481 6.261	0.458 1		11. <del>4</del> 0 11. <del>4</del> 0	
\−5 \−6	Curb 5.00 Curb 5.00	n/a n/a 4	.020 6.261 .289 6.261	0.372 1	0.15 9.40	10.15 9.40	
lode D.  \-1 \-2 \-3	Type C-Value	Cumulat. Cumulat. Dr.Area Tc (acres) (min) 1.80 15.00 3.60 15.12 1.50 15.00	Intens. User Supp (in/hr) 6.64 6.62 6.64	Additional	l Tot	al Disch. (cfs) 6.578 13.104 5.481 22.921	
A-4 A-5 A-6 SMH- A-7 OUT	Curb 0.550 Curb 0.550 Curb 0.550 1 CircMh 0.550 Curb 0.550 Outlt 0.550	6.60 16.61 1.10 15.00 0.90 15.00 8.60 18.02 9.00 18.18 9.00 18.18	6.64 6.64 6.06 6.03	0.000 0.000 0.000 0.000 0.000 0.000	0.00 0.00 0.00 0.00	4.020 3.289 28.647 29.837 29.837	
~	vance Configuration	Data		<u> </u>			
===		composition of the composition o	Shape # Spo (ft) (	ın Rise Len	,		
 1 2 3 4 5 6 7	A-1 A-2 A-2 A-4 A-3 A-4 A-4 SMH-1 A-5 SMH-1 A-6 SMH-1 SMH-1 A-7 A-7 OUT	23.40 23.30 23.30 22.57 22.67 22.57 22.57 21.78 21.91 21.78 21.83 21.78 21.78 21.68 21.68 21.50	Circ 1 0.00 Circ 1 0.00	2.00 30.0 2.50 364.0 1.50 27.0 3.00 393.1 1.50 20. 1.50 7. 3.00 48. 3.00 83.0	00 0.2 00 0.3 00 0.3 00 0.0 00 0.0	20 0.013 37 0.013 20 0.013 65 0.013 71 0.013 21 0.013	
	eyance Hydraulic Com	aputations Tallwater	24 200 (#\				
Conve ==== Run#	Hydraulic Gradeline US Elev DS Elev	Depth Fr.Slope Unif. Act	Veloc Unif. Actua	======================================	Cap	Junc Loss	
 1	(ft) (ft) 25.17 25.1	(%) (ft) (f  6 0.085 1.00	t) (f/s) (f 	/s) (cfs) (d 2.16 6.5	 58 13.0		
2 3 4 5* 6* 7	25.16 24.8 24.90 24.8 24.83 24.4 24.44 24.4 24.42 24.4 24.42 24.4	33     0.102     1.56       33     0.272     1.08       42     0.118     1.97       2     0.146     0.73       2     0.098     0.63	2.26 4.06 1.50 4.03 2.64 4.66 1.50 4.74 1.50 4.64 2.66 4.84	2.81 13. 3.10 5. 3.48 22. 2.27 4.1 1.86 3.2	10 18.3 48 6.3 92 29.9 02 8.4 29 8.8	37 0.000 39 0.000 91 0.000 47 0.000 38 0.000	

OUTPUT FOR ANALYSIS FREQUENCY of: 100 Years 

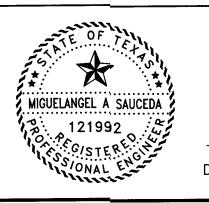
	C Value	Area (acre)	Tc (min)	Tc Used (min)	ni b	tensity (in/hr)		ply Q (cfs)	Tota (	ıl Q cfs)		
 1 -2	0.55 0.55	1,80 1,80	15.00 15.00	15.00 15.00		10.10 10.10		0.00			198 198	 
.3	0.55	1,50	15.00	15.00	)	10.10		0.00	0	8.3	31	
·4 ·5	0.55 0.55	1,50 1,10	15.00 15.00	15.00 15.00		10.10 10.10		0.00		8.3 6.1	10	
·6 ·7	0.55 0.55	0,90 0,40	15.00 15.00	15.00 15.00	)	10.10 10.10		0.00	00	4.9	99 222	
					<i></i>							 
g Ir	ılets Configu	ration Dat	a.									
et	Inlet Length	/ Grate	Left-Slop	e Right	-Slope	Gu	ıtter	Dept	th C	ritic		 ====
) 	Type Per (1	ft) Ared		Trans 1 (%)	_ong	(%) 	n Der	(ft)	Allowed (ft)		ev. ft) 	 
-1 -2				0 2.00 0 2.00	0.50 0.50	2.00	0.014 0.014	1.50 1.50	0.5 0.5		27.30 27.30	
-3				0 2.00	0.50	2.00	0.014	1.50	0.5	0	27.00	
-4				0 2.00	0.50		0.014	1.50	0.5		27.00	
-5 -6				0 2.00 0 2.00	0.50 0.50			1.50 1.50	0.5 0.5		26.50 26.50	
-7 				0 2.00	0.50			1.50	0.5		26.80	 
	nlets Compu											
et	Inlet Len	gth Gr	ate	Total Q	Inle	t To	otal F	onded	Width		=====	 ====
D .	Туре		Perim Are (ft) (sf)	ea (cfs)		Capacit s)	y Hed (ft)	ad (ft)	Left (ft)	Right		 
 -1	Curb	5.00		·/	9.998	6.7		0.804	14.25		.25	 
-2 -3	Curb Curb	5.00 5.00			9.998 8.331	6.7° 6.7°		0.804 0.634	14.25 13.35		.25 .35	
-4	Curb	5.00	•		8.331	6.7	18 C	0.634	13.35	13	.35	
-5	Curb	5.00		•	6.110	6.26		0.492	11.85		.85	
-6 7	Curb	5.00	n/a i	n/a	4.999	6.26	ol (	0.430	11.00		.00	
	Curb	====== Weighted	n/a rge Comp	n/a  utations =====		s. Us	61 (  ser upply Q	0.251  Additio		 Total	.10	 :====
ımu ===	lative Junctio	on Dischar ====== Weighted Value [	n/a rge Comp Cumulat.	n/a utations Cumulat Tc ) (mir	. Intens	===== s. Us S n/hr) 	61 ( 	0.251  Addition Q	onal in Node (cfs)	Total D	.10 	 :====
umu ==== ode ). -1 -2 -3	lative Junction  Node Node Node Node Node Node Node Node	on Dischar ======= Weighted Value D 	n/a rge Comp ====== Cumulat. r.Area (acres 1.80 3.60	utations Cumulat Tc (mir	(ir	o.10 0.07 0.10	61 0 eer upply Q cfs) 0.000 0.000	0.251 Addition Q	onal in Node (cfs) 0. 0.	Total D	.10 	 
umu ==== ode ). -1 -2 -3 -4	lative Junction  Node Node Node Node Node Node Node Node	on Dischar ====================================	n/a rge Comp Cumulat. r.Area (acres 3.60 1.50 6.60	utations Cumulat Tc (mir 15.0 15.0 16.5	(intension) (inten	0.10 0.07 0.10 9.64	61 0 eer upply Q cfs) 0.000 0.000 0.000	0.251 	onal in Node (cfs) 0. 0. 0.	Total D (	isch. (cfs) 9.998 19.929 8.331 35.003	 
umu ==== ode ). -1 -2 -3 -4 -5 -6	Node Node Node Node Node Node Node Node	On Dischar Weighted Value D 0.550 0.550 0.550 0.550 0.550 0.550 0.550	n/a rge Comp Cumulat. r.Area (acres 1.80 3.60 1.50 6.60 1.10 0.90	n/a  utations  Cumulat  Tc ) (min ) 15.0 ) 15.1 ) 15.0 ) 15.0	(intension) (inten	0.10 0.07 0.10 9.64 0.10	61 (c)  ser upply Q cfs) 0.000 0.000 0.000 0.000 0.000	0.251 	onal in Node (cfs) 0. 0. 0. 0. 0. 0.	Total D (00000000000000000000000000000000000	isch. (cfs) 9.998 19.929 8.331 35.003 6.110 4.999	 
umu === ode ). -1 -2 -3 -4 -5 -6 MH-	Node Node Node Node Node Node Node Node	On Dischar Dischar Dischar Dischar Dischar Value D 0.550 0.550 0.550 0.550 0.550 0.550 0.550 0.550	n/a rge Comp Cumulat. r.Area (acres 1.80 3.60 1.50 6.60 1.10 0.90 8.60	n/a  utations  Cumulat  Tc ) (min  15.0 ) 15.1 ) 15.0 ) 15.0 ) 15.0 ) 17.8	(intension) (inten	S. Us S S 0.10 0.07 0.10 9.64 0.10 0.10 9.29	61 (1)  ser upply Q cfs) 0.000 0.000 0.000 0.000	2.251 	onal in Node (cfs) 0. 0. 0. 0. 0. 0. 0.	Total D (00000000000000000000000000000000000	isch. (cfs) 9.998 19.929 8.331 35.003 6.110	
umu ==== ode ). -1 -2 -3 -4 -5 -6	Node Node Node Node Node Node Node Node	On Dischar Weighted Value D 0.550 0.550 0.550 0.550 0.550 0.550 0.550	n/a rge Comp Cumulat. r.Area (acres 1.80 3.60 1.50 6.60 1.10 0.90	n/a  utations  Cumulat  Tc ) (min  15.0 ) 15.1 ) 15.2 ) 15.5 ) 15.6 ) 15.8 ) 17.8	(ir (ir (ir (ir (ir (ir (ir (ir	0.10 0.07 0.10 9.64 0.10	61 (c) ser upply Q cfs) 0.000 0.000 0.000 0.000 0.000 0.000	2.251 Additic Q 0.000	onal in Node (cfs) 0. 0. 0. 0. 0. 0. 0.	Total D (00 00 00 00 00 00 00 00 00 00 00 00 00	isch. (cfs) 9.998 19.929 8.331 35.003 6.110 4.999 43.963	
umu ==== ode 0. ====================================	Node Node Node Node Node Node Node Node	on Dischar ====================================	n/a rge Comp Cumulat. r.Area (acres 1.80 3.60 1.50 6.60 1.10 0.90 8.60 9.00	n/a  utations  Cumulat  Tc ) (min  15.0 ) 15.1 ) 15.2 ) 15.5 ) 15.6 ) 15.8 ) 17.8	(ir (ir (ir (ir (ir (ir (ir (ir	S. Us S S 0.10 0.07 0.10 9.64 0.10 0.10 9.29 9.26	61 (c) ser upply Q cfs) 0.000 0.000 0.000 0.000 0.000 0.000 0.000	2.251 Additic Q 0.000	onal in Node (cfs) 0. 0. 0. 0. 0. 0. 0. 0. 0.	Total D (00 00 00 00 00 00 00 00 00 00 00 00 00	isch. (cfs) 9.998 19.929 8.331 35.003 6.110 4.999 43.963 45.848	
 	Node Node Node Node Node Node Node Node	on Dischar ====================================	n/a rge Comp Cumulat. r.Area (acres 1.80 3.60 1.50 6.60 9.00 9.00	utations ======  Cumulat Tc ) (mir ) 15.0 ) 15.1 ) 15.5 ) 15.5 ) 15.6 17.8 ) 18.0	i. Intens	0.10 0.10 0.07 0.10 0.10 9.29 9.26 9.26	61 C  ser upply Q  cfs)  0.000 0.000 0.000 0.000 0.000 0.000	0.251 	onal in Node (cfs)  0. 0. 0. 0. 0. 0. 0.	Total D (00 00 00 00 00 00 00 00 00 00 00 00 00	isch. (cfs) 9.998 19.929 8.331 35.003 6.110 4.999 43.963 45.848 45.848	
	Node Node Node Node Node Node Node Node	on Dischar ====================================	n/a  rge Comp  Cumulat.  r.Area (acres  1.80 3.60 1.50 6.60 1.10 0.90 8.60 9.00	n/a  utations  Cumulat  Tc ) (mir  15.0 ) 15.0 ) 15.0 ) 15.0 ) 15.0 ) 15.0 ) 15.0	in) (ir) (ir) (ir) (ir) (ir) (ir) (ir) (ir	S. Us Sn/hr) 0.10 0.07 0.10 9.64 0.10 9.29 9.26 9.26	61 C  ser upply Q cfs)  0.000 0.000 0.000 0.000 0.000 0.000	0.251 	onal in Node (cfs)  0. 0. 0. 0. 0. 0.	Total D (00 00 00 00 00 00 00 00 00 00 00 00 00	isch. (cfs) 9.998 19.929 8.331 35.003 6.110 4.999 43.963 45.848 45.848	
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	lative Junction  Node Volume  Type C-  Curb Curb Curb Curb Curb Curb Curb Cur	on Dischar  ===================================	n/a  rge Comp  Cumulat.  r.Area (acres  1.80 3.60 1.50 6.60 1.10 0.90 8.60 9.00 9.00 9.00  cata  wline Elev. US (ft) (f	n/a  utations  Cumulat Tc ) (min ) 15.0 ) 15.1 ) 15.0 ) 15.0 ) 15.0 ) 18.0 17.8 ) 18.0 18.0  DS t)  23.30 22.57 22.57	Sha	S. Us S S (h/hr)	61 C  =====  ser upply Q	0.251 Addition Q 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	Total D 00 00 00 00 00 00 00 00 00 00 00 00 0	.10	
	lative Junction  Node Node Node Node Node Node Node Node	on Dischar ====================================	n/a  rge Comp  Cumulat. r.Area (acres 1.80 3.60 1.50 6.60 1.10 0.90 8.60 9.00 9.00 9.00 0ata ================================	n/a  utations  Cumulat Tc ) (min ) 15.0 ) 15.1 ) 15.0 ) 15.0 ) 15.0 ) 15.0 ) 17.8 ) 18.0  18.0  23.30 22.57 21.78 21.78	Sha Circ Circ Circ Circ Circ Circ	====== s. Us Sn/hr) 	61 C  ======  ser upply Q     cfs)      0.0000     0.0000     0.0000     0.0000     0.0000     0.0000     0.0000     0.0000     0.0000     0.0000     0.0000     0.0000     0.0000     0.0000     0.0000     0.0000     0.0000	0.251 Addition Q 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	Total D 00 00 00 00 00 00 00 00 00 00 00 00 0	.10	
mu	lative Junction  Node Node Node Node Node Node Node Node	on Dischar ====================================	n/a  rge Comp  Cumulat. r.Area (acres 1.80 3.60 1.50 6.60 1.10 0.90 8.60 9.00 9.00 9.00 23.40 23.40 23.40 23.40 23.40 23.40 23.40 23.40 23.40 23.40 23.40 23.40 23.40	n/a  utations  Cumulat Tc ) (min ) 15.0 ) 15.1 ) 15.0 ) 15.0 ) 15.0 ) 15.0 ) 17.8 ) 18.0  18.0  23.30 22.57 21.78 21.78 21.78	Sha Circ Circ Circ Circ Circ Circ Circ	======================================	61 C  Ser upply Q  cfs)  0.000	0.251  Additic Q  Comparison of the comparison o	onal in Node (cfs)  0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	Total D (000 000 000 000 000 000 000 000 000	.10	
mu	lative Junction  Node Node Node Node Node Node Node Node	on Discharge   Dis	n/a  rge Comp  Cumulat. r.Area (acres 1.80 3.60 1.50 6.60 1.10 0.90 8.60 9.00 9.00 9.00 0ata ================================	n/a  utations  Cumulat Tc ) (min ) 15.0 ) 15.1 ) 15.0 ) 15.0 ) 15.0 ) 15.0 ) 17.8 ) 18.0  18.0  23.30 22.57 21.78 21.78	Sha Circ Circ Circ Circ Circ Circ	S. Us S N/hr) 0.10 0.07 0.10 9.64 0.10 9.29 9.26 9.26 1 0.0 1 0.0 1 0.0 1 0.1 1 0.0 1 0.1	61 C  Ser upply Q  cfs)  0.000	0.251  Additic Q  CONTRIBUTION (Trick)  CONT	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	Total D 00 00 00 00 00 00 00 00 00 00 00 00 0	.10	
	Node Node Node Node Node Node Node Node	on Discharge   Dis	n/a  rge Comp  Cumulat. r.Area (acres 1.80 3.60 1.50 6.60 1.10 0.90 8.60 9.00 9.00 9.00 23.40 23.40 23.40 23.40 23.40 22.67 22.57 21.91 21.83 21.78	n/a  utations  Cumulat Tc ) (min  15.0 15.0 15.0 17.8 0 18.0 17.8 0 18.0 22.57 21.78 21.78 21.78 21.68	Sha Circ Circ Circ Circ Circ Circ Circ Circ	S. Us S N/hr) 0.10 0.07 0.10 9.64 0.10 9.29 9.26 9.26 1 0.0 1 0.0 1 0.0 1 0.1 1 0.1	61 C  Ser upply Q  cfs)  0.000	0.251  Additic Q  CONTRIBUTION (Trick)  CONT	onal in Node (cfs)  0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	Total D (00 00 00 00 00 00 00 00 00 00 00 00 00	.10	
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	lative Junction  Node Node Node Node Node Node Node Node	on Dischard	n/a  rge Comp  Cumulat. r.Area (acres 1.80 3.60 1.50 6.60 1.10 0.90 8.60 9.00 9.00 9.00  cata =================================	n/a  utations  ======  Cumulat Tc ) (min ) 15.0 15.0 15.0 17.8 ) 18.0 18.0 18.0 18.0 18.0  Tailwat =====  Depth Unif. Ad (ft) 1.31 2.34 1.50 3.00 0.94	Sha  Circ Circ Circ Circ Circ Circ Circ Cir	======================================	61 C	0.251 Additic Q 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	onal in Node (cfs)  0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0	Total D 00 00 00 00 00 00 00 00 00 00 00 00 0	.10	
umu ==== -01 -2 -3 -4 -5 -6 -6 -7 -7 -7	lative Junction  Node Node Node Node Node Node Node Node	on Dischar ====================================	n/a  rge Comp  Cumulat. r.Area (acres 1.80 3.60 1.50 6.60 1.10 0.90 8.60 9.00 9.00 9.00  cata =================================	n/a  utations  ======  Cumulat Tc ) (min 15.0 15.0 15.0 17.8 0 15.0 17.8 0 18.0 18.0 18.0 18.0 18.0 18.0 18.0 18.0	Sha  Circ Circ Circ Circ Circ Circ Circ Cir		61 C	0.251 Additic Q 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	onal in Node (cfs)  0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0	Total D (00 00 00 00 00 00 00 00 00 00 00 00 00	.10	

\* Super critical flow.

NORMAL TERMINATION OF WINSTORM.

DESIGNED MS DRAWN CHECKED APPROVED DESCRIPTION NO. DATE REVISIONS

BAKER & LAWSON, INC. ENGINEERS • PLANNERS • SURVEYORS 4005 TECHNOLOGY DRIVE, SUITE 1530 ANGLETON, TEXAS 77515 (979) 849-6681 REG. NO. F-825



The seal appearing on this document was authorized by Miguel Sauceda
P.E. 121992

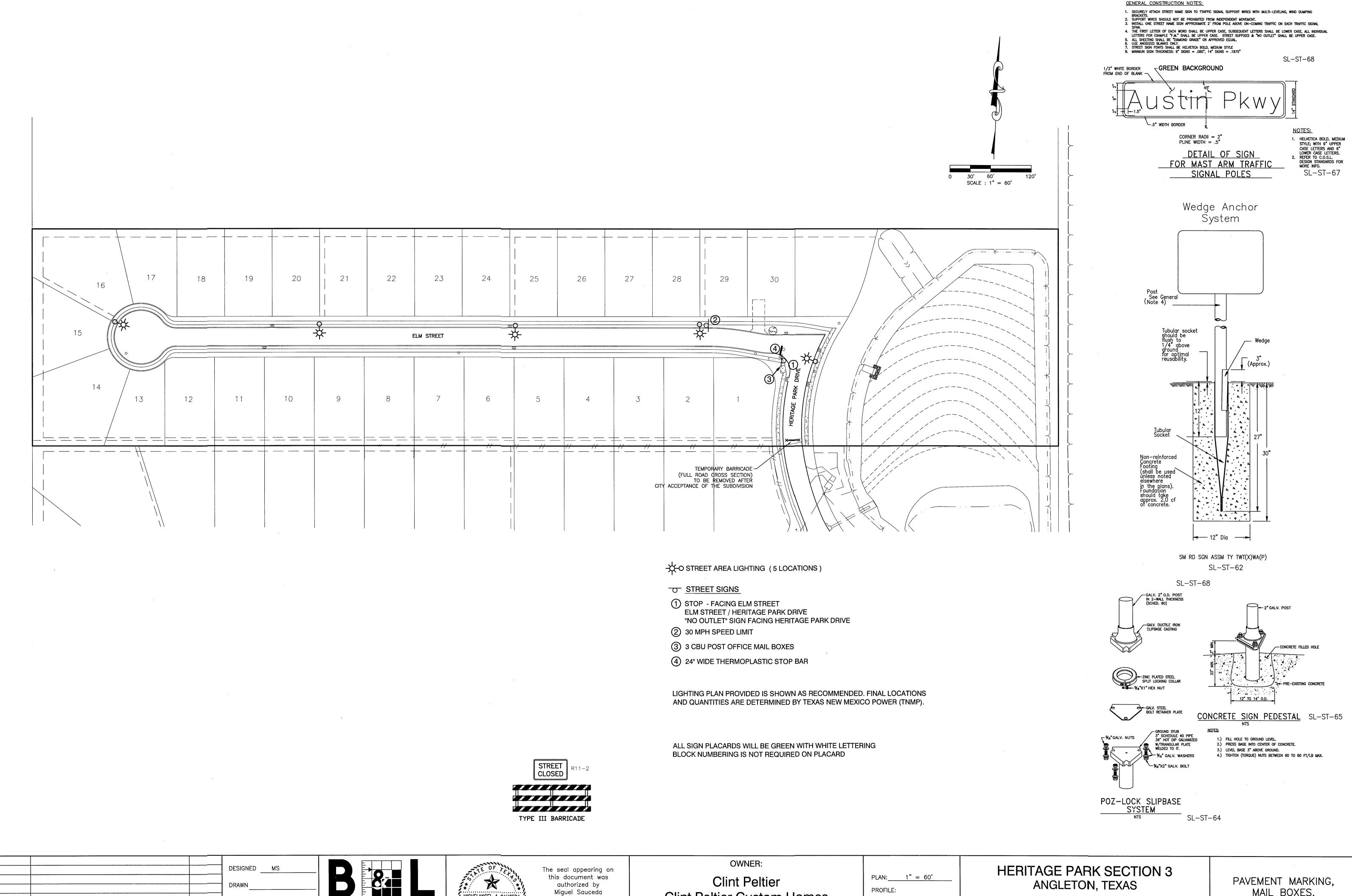
Date: 4/23/22

OWNER: Clint Peltier Clint Peltier Custom Homes 979-481-4840

PROFILE: HORIZONTAL: VERTICAL:

HERITAGE PARK SECTION 3 ANGLETON, TEXAS PLANS FOR GRADING, PAVING, UTILITIES
AND DETENTION

WINDSTORM DATA I-1 TO I-7

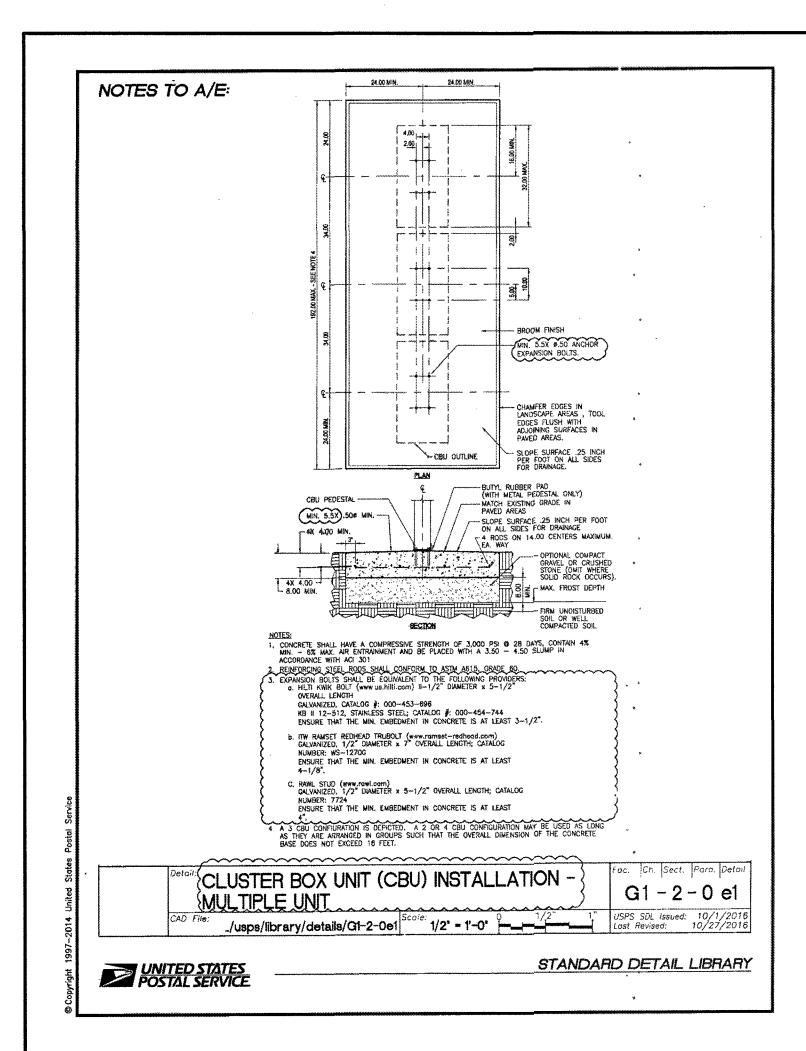


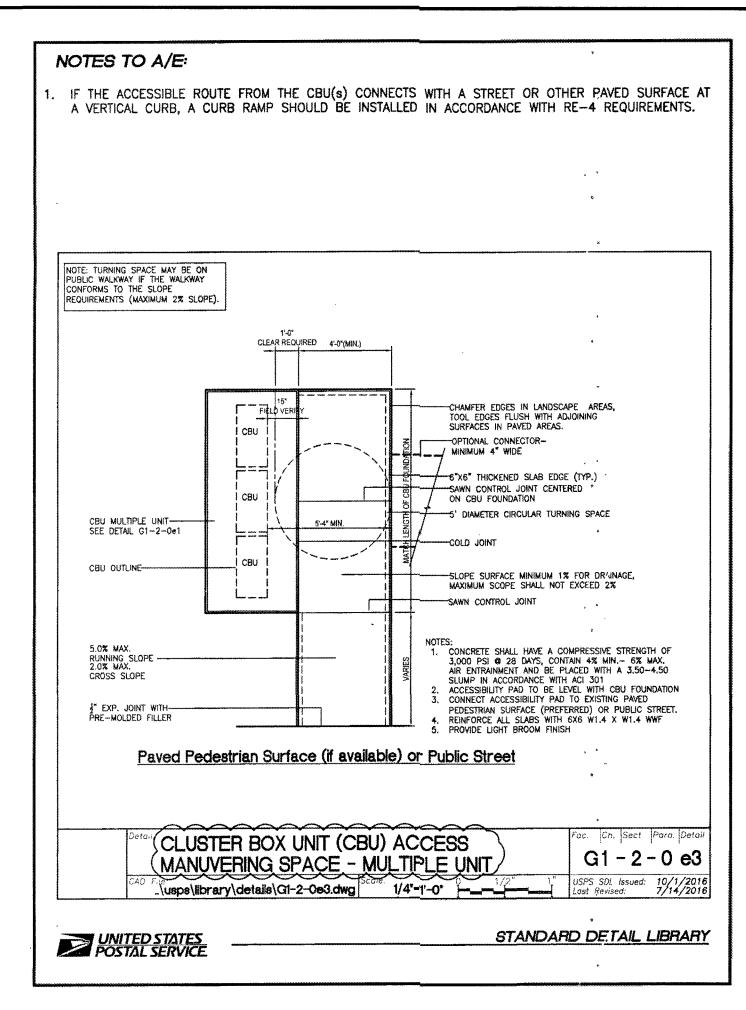
Miguel Sauceda P.E. 121992 **Clint Peltier Custom Homes** MIGUELANGEL A SAUCEDA **PLANS FOR** CHECKED BAKER & LAWSON, INC. HORIZONTAL: APPROVED NO. DATE DESCRIPTION ENGINEERS • PLANNERS • SURVEYORS Date: 4/23/22 979-481-4840 GRADING, PAVING, UTILITIES VERTICAL: \_\_ 4005 TECHNOLOGY DRIVE, SUITE 1530 ANGLETON, TEXAS 77515 (979) 849-6681 REG. NO. F-825 DATE AND DETENTION REVISIONS -

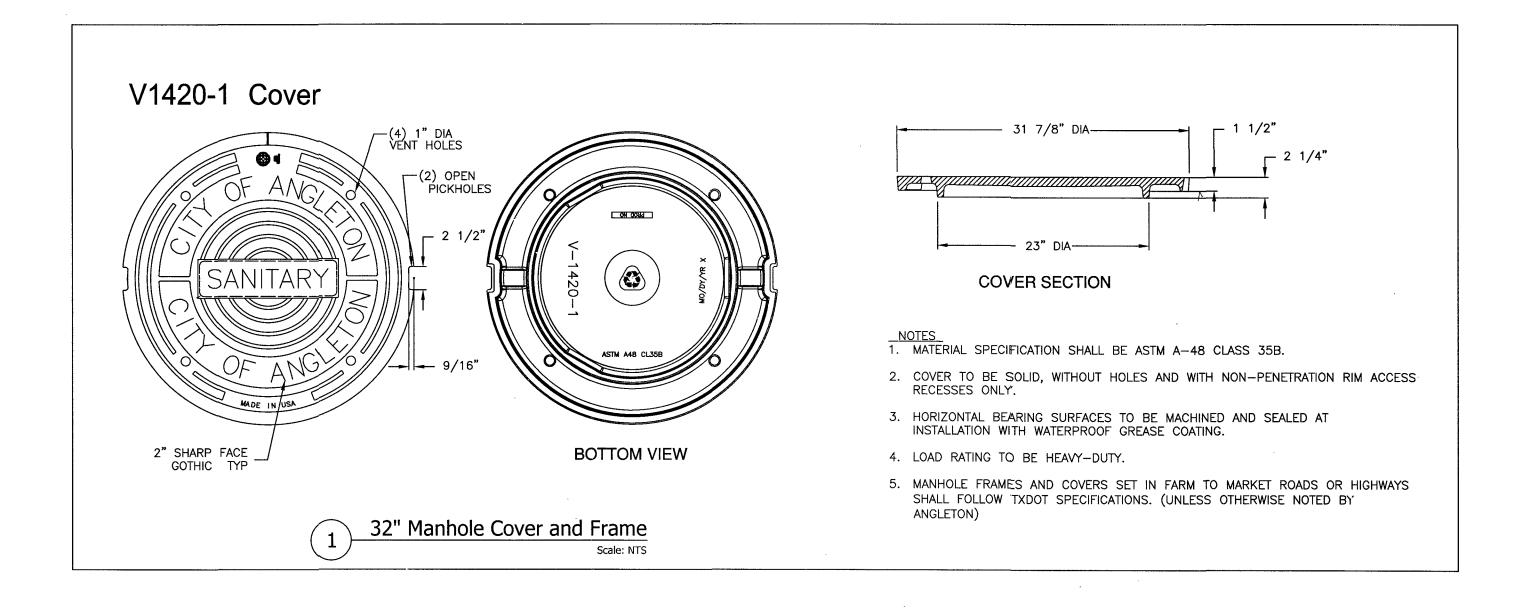
MAIL BOXES,
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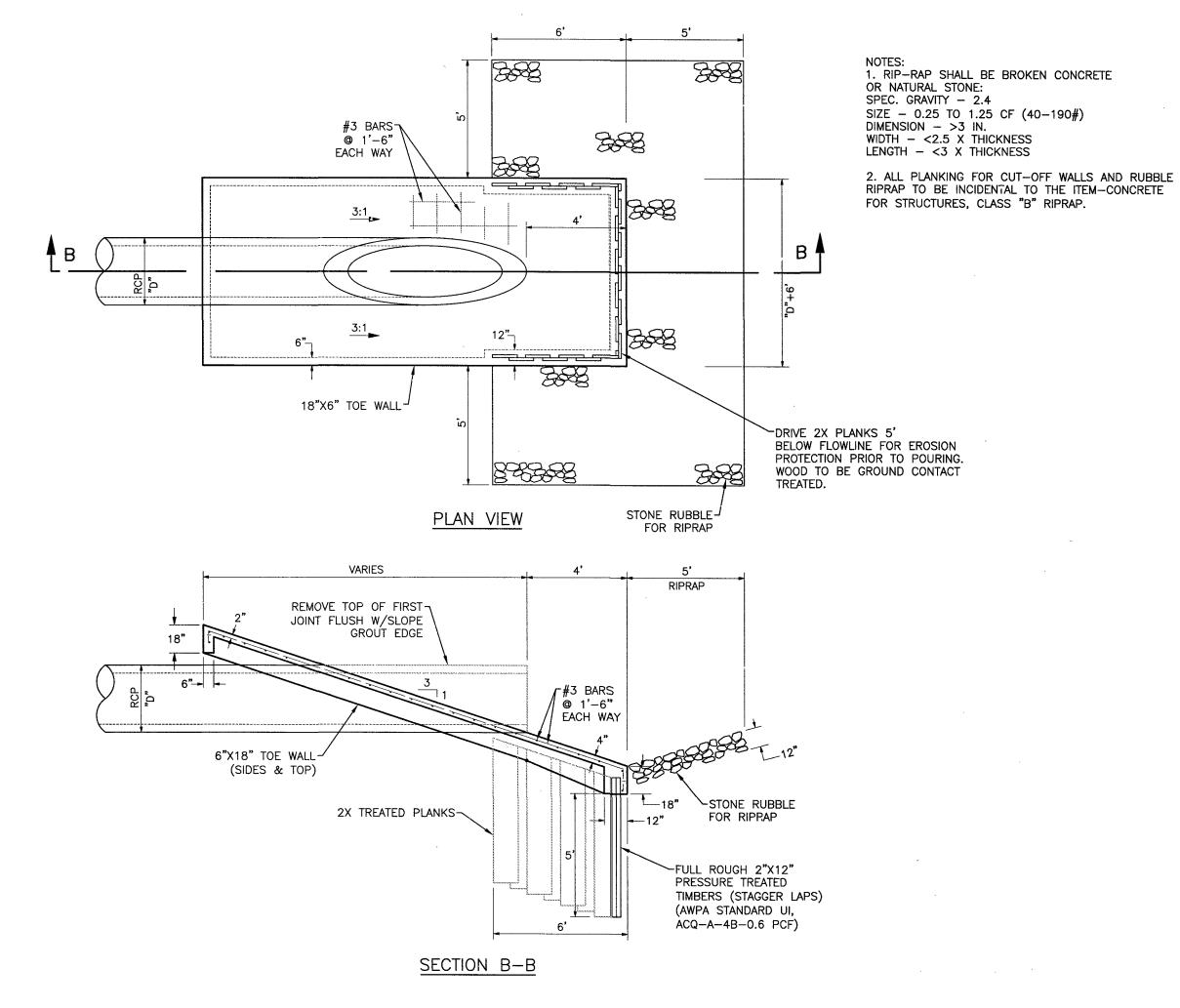
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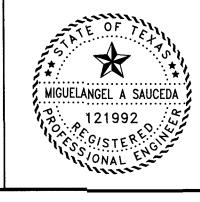


TYPE (A)

STANDARD CONCRETE SLOPE PAVING PIPE OUTFALL

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OWNER:

Clint Peltier

Clint Peltier Custom Homes
979-481-4840

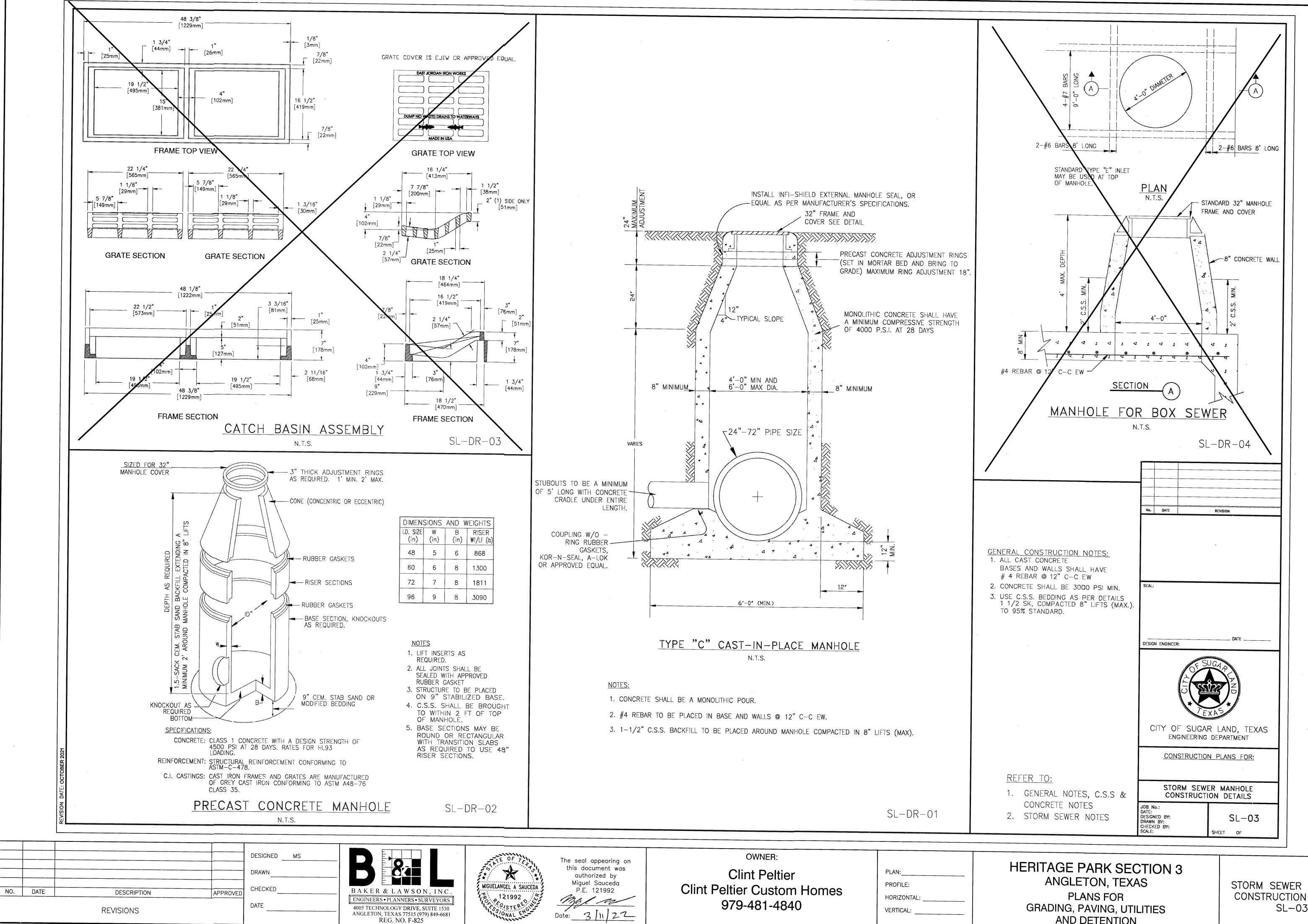
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HERITAGE PARK SECTION 3
ANGLETON, TEXAS
PLANS FOR
GRADING, PAVING, UTILITIES
AND DETENTION

MISCELLANEOUS DETAILS

PROJECT NO. 15012

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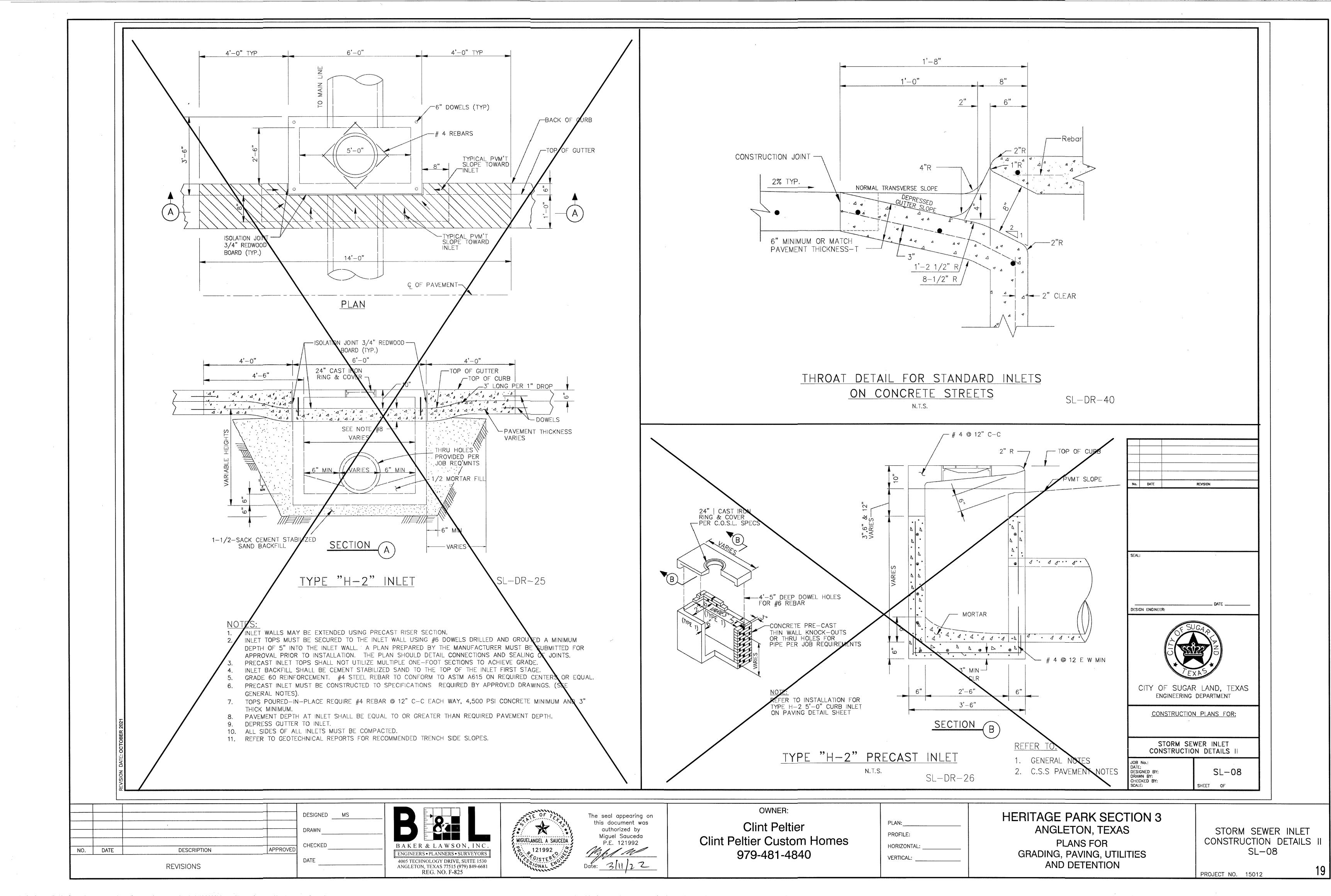


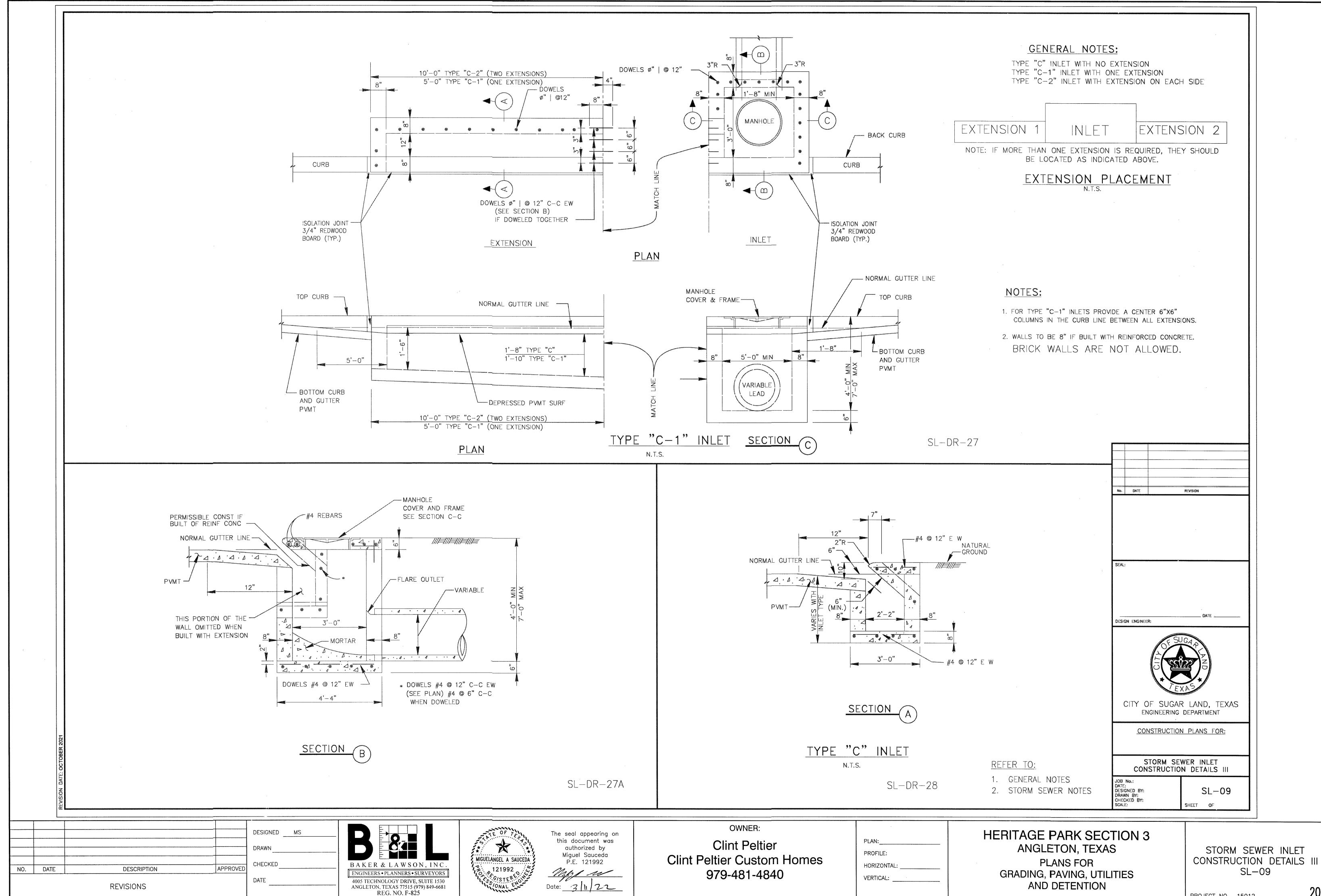
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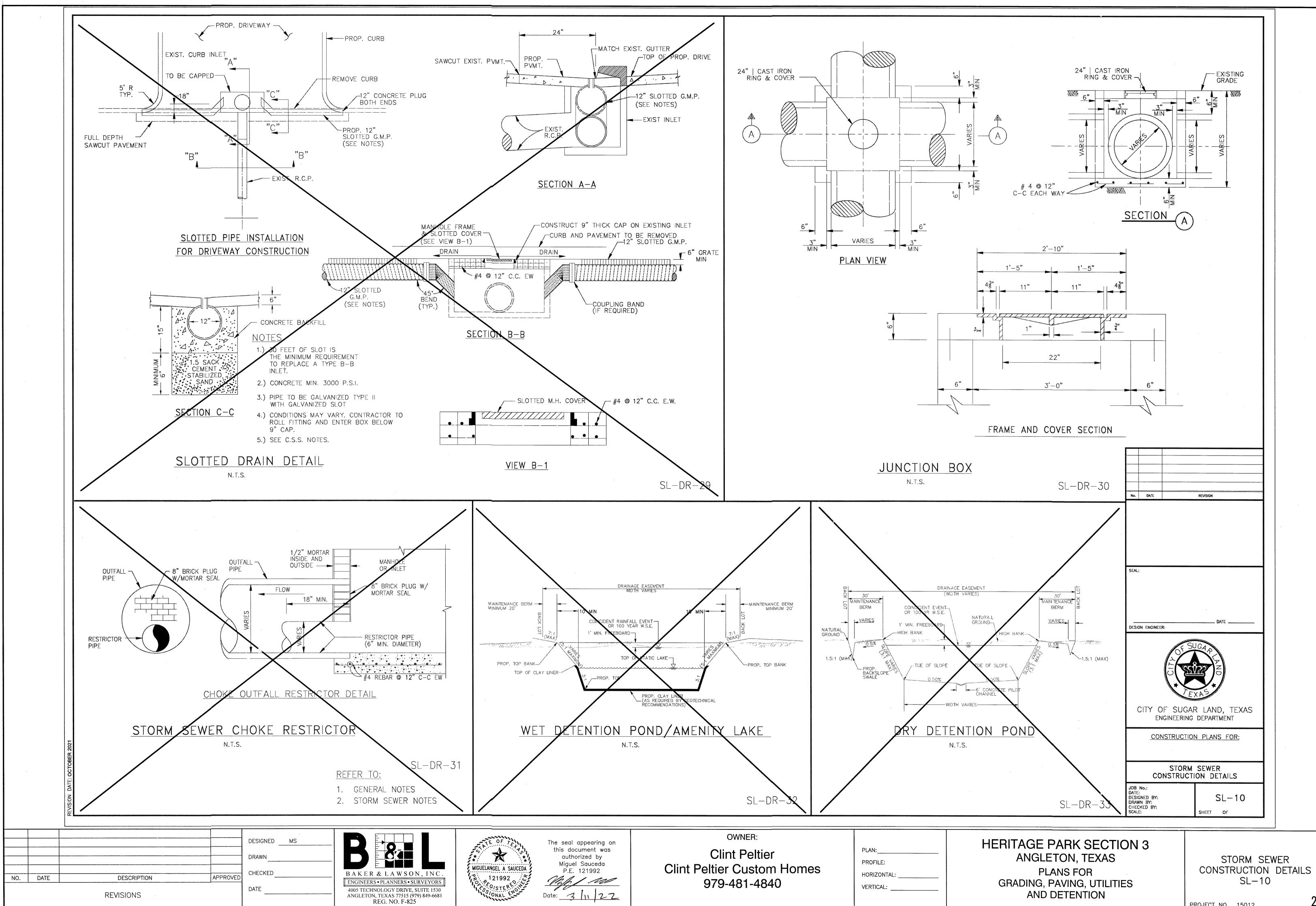
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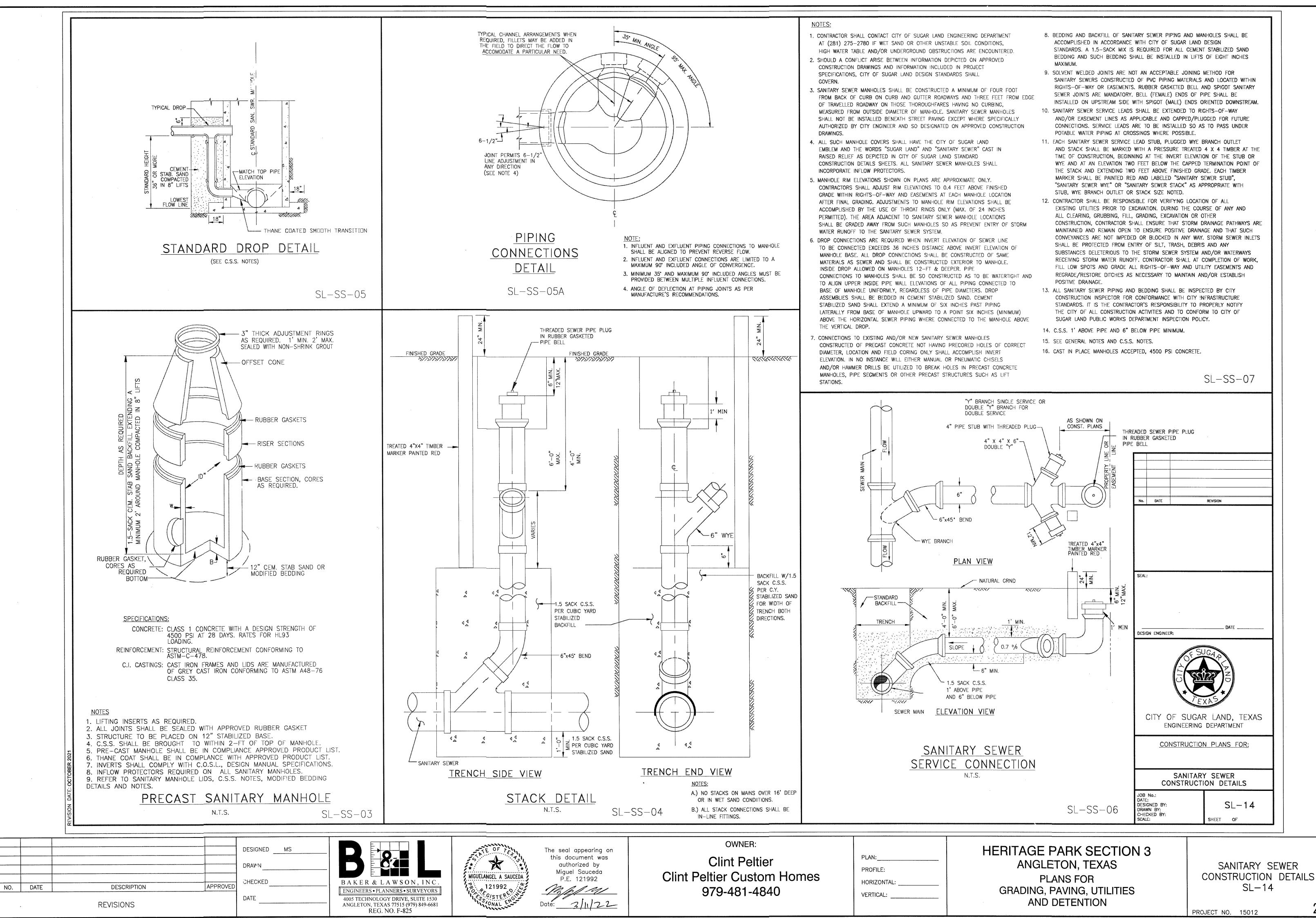
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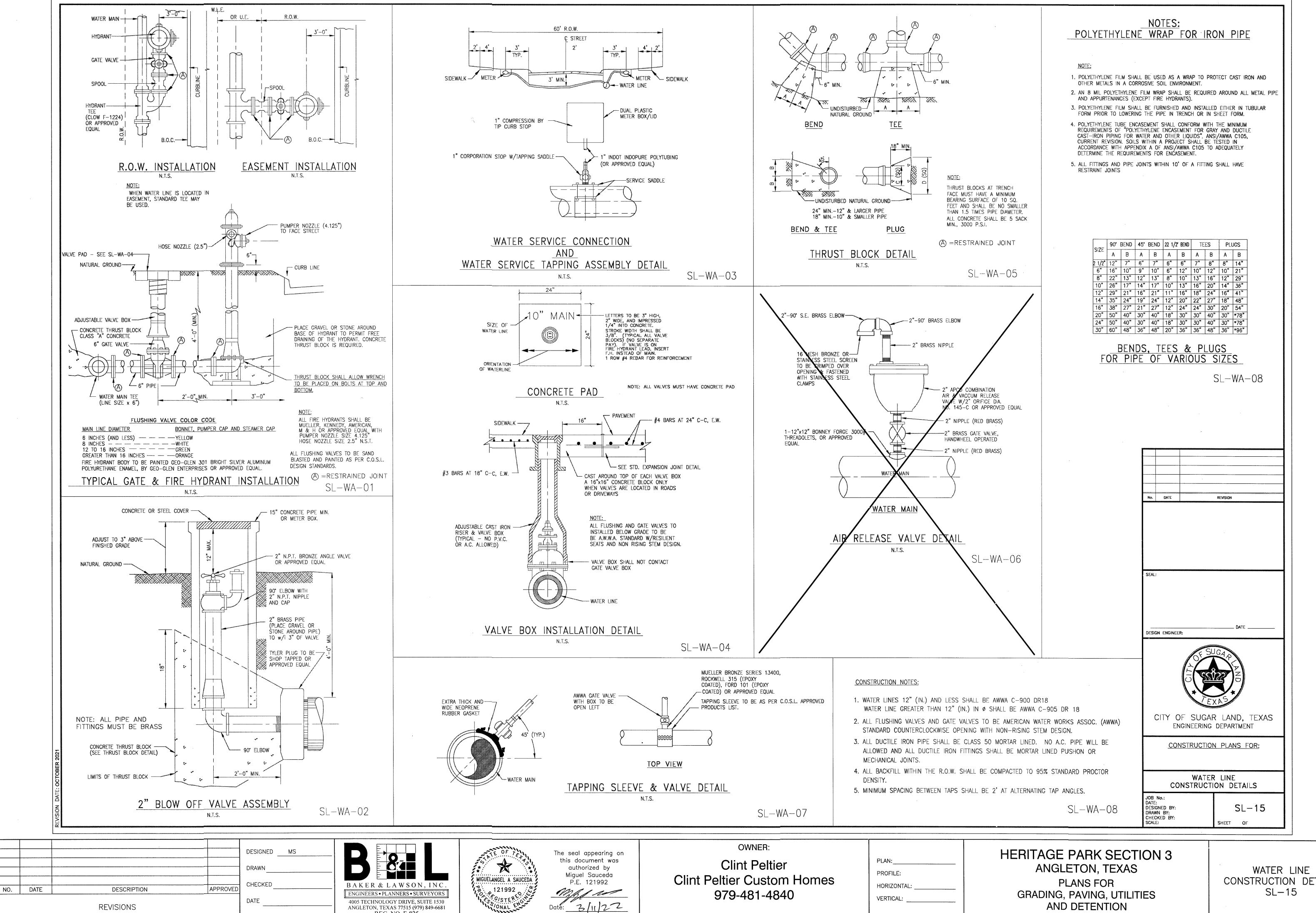
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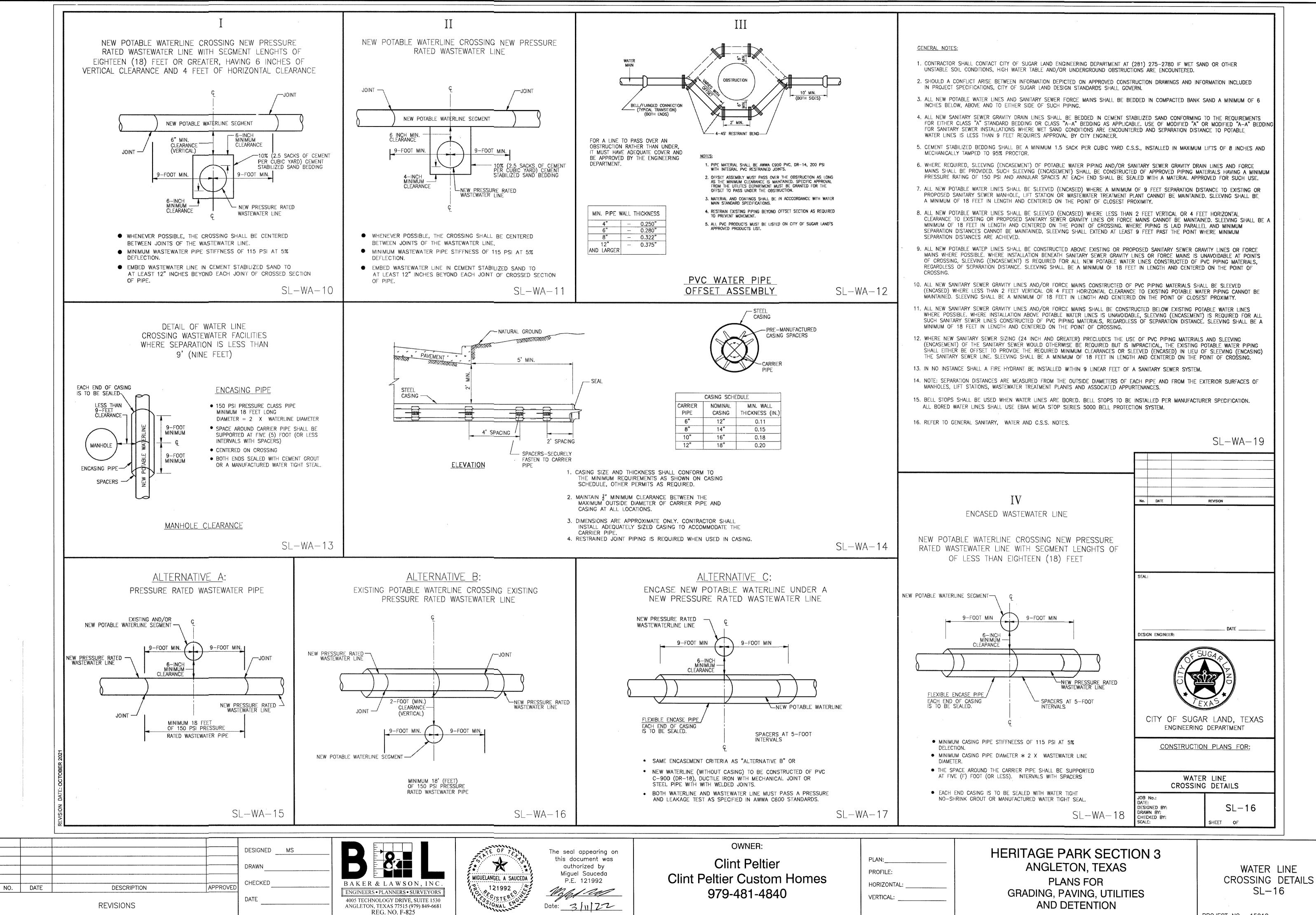


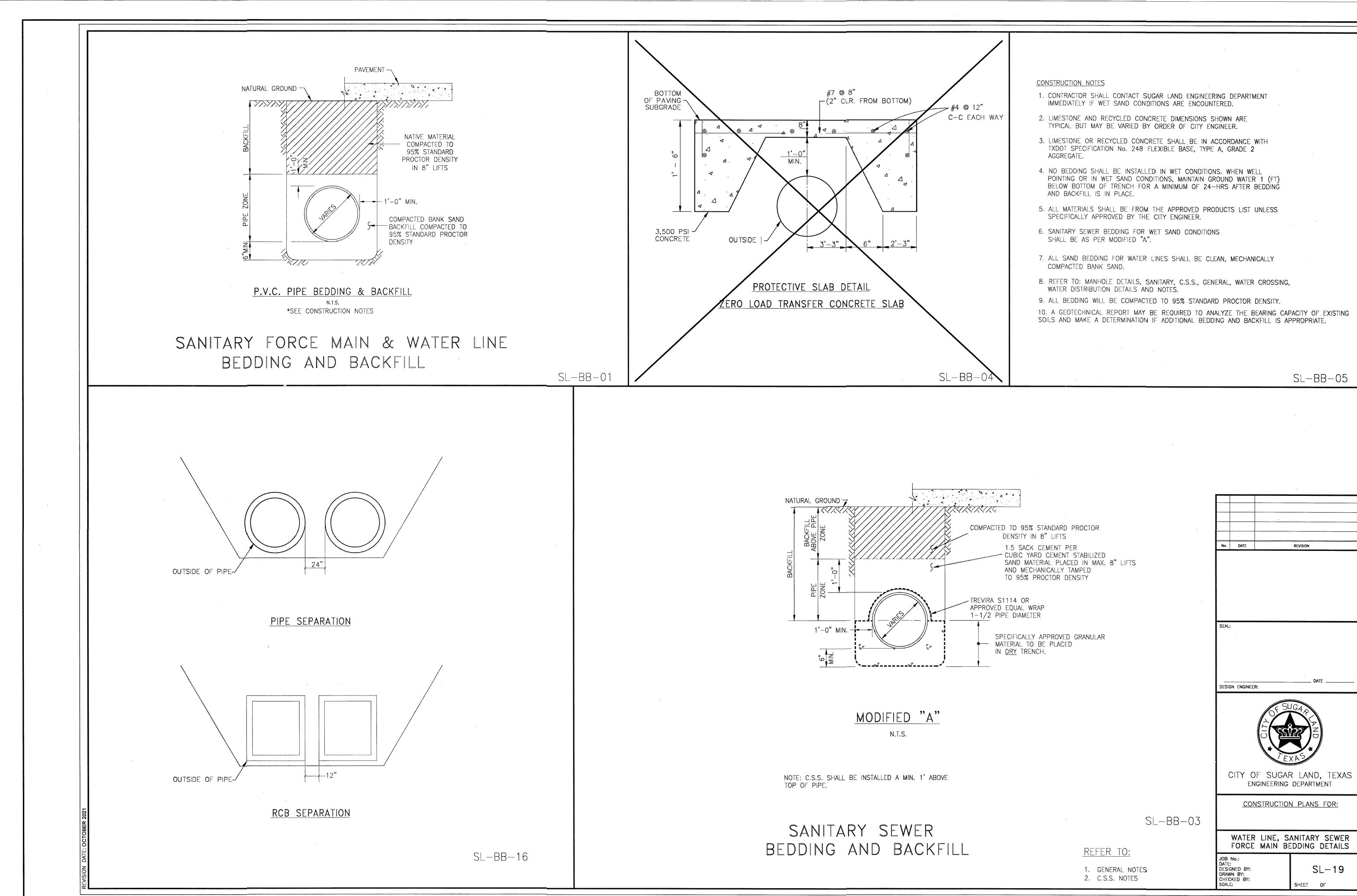




REG. NO. F-825

CONSTRUCTION DETAILS





NO. DATE DESCRIPTION APPROVED

REVISIONS

BAKER & LAWSON, INC.

ENGINEERS • PLANNERS • SURVEYORS

4005 TECHNOLOGY DRIVE, SUITE 1530
ANGLETON, TEXAS 77515 (979) 849-6681
REG. NO. F-825

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owner: Clint Pelti

Clint Peltier Clint Peltier Custom Homes 979-481-4840 PLAN:\_\_\_\_\_PROFILE:
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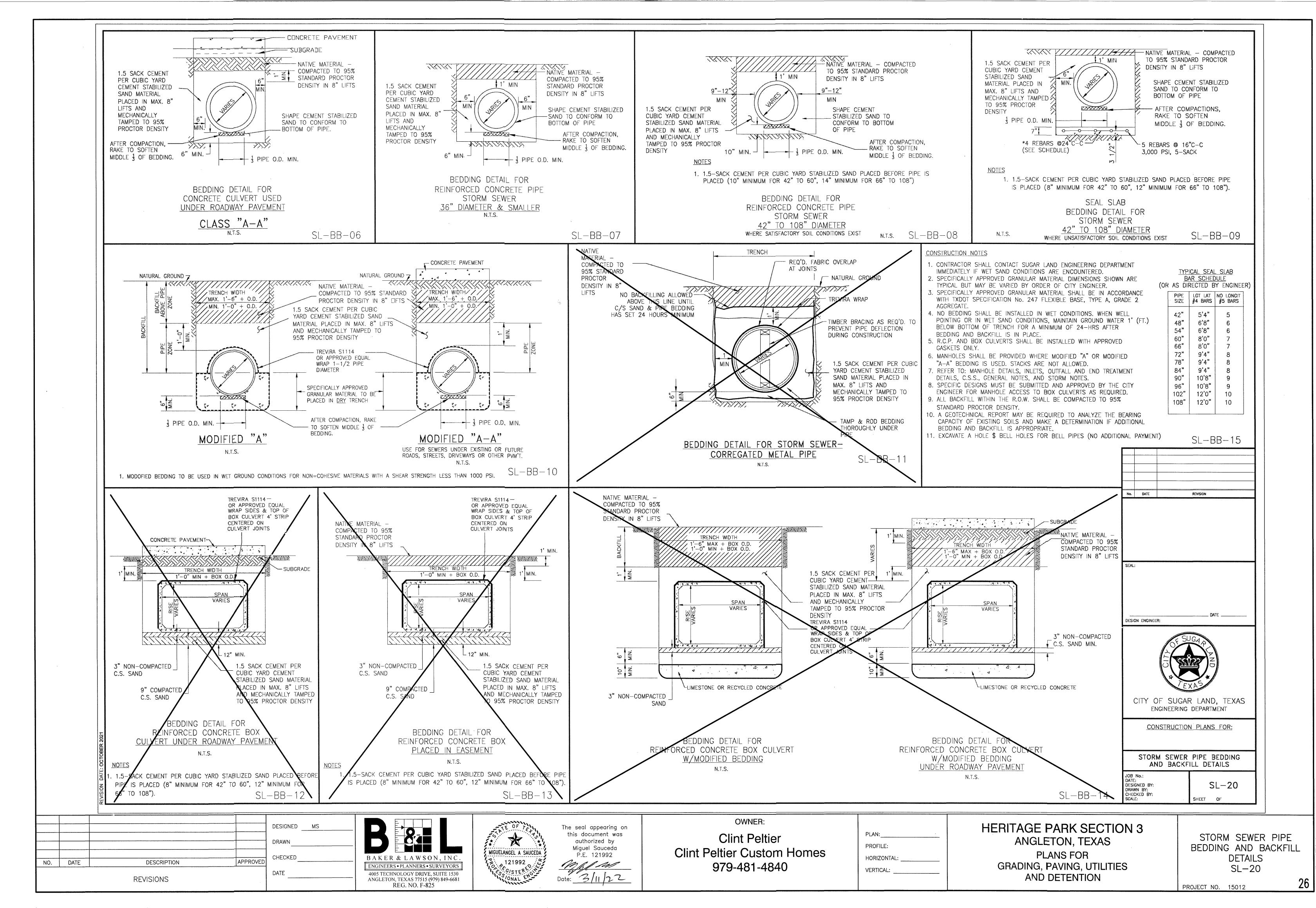
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ANGLETON, TEXAS

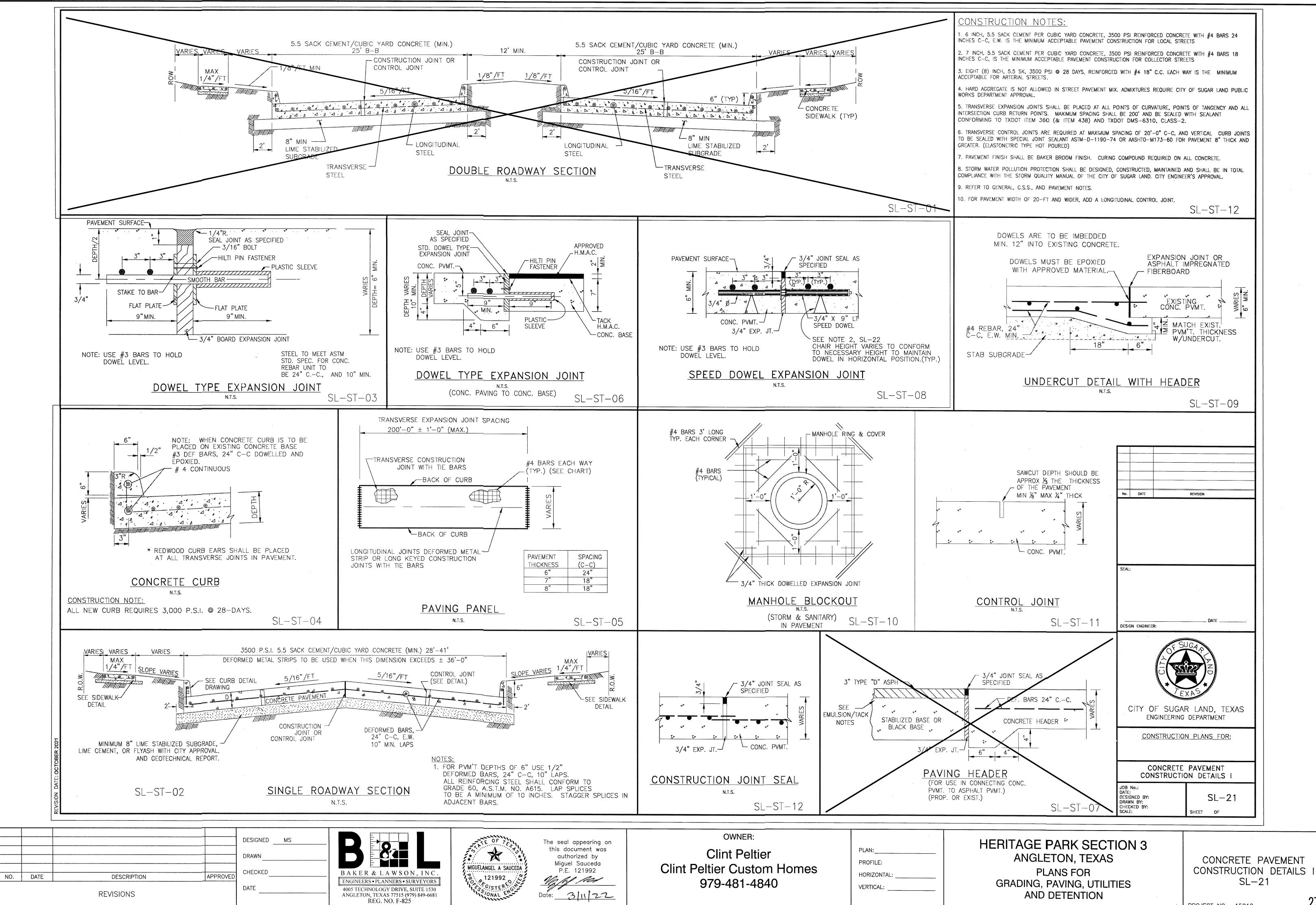
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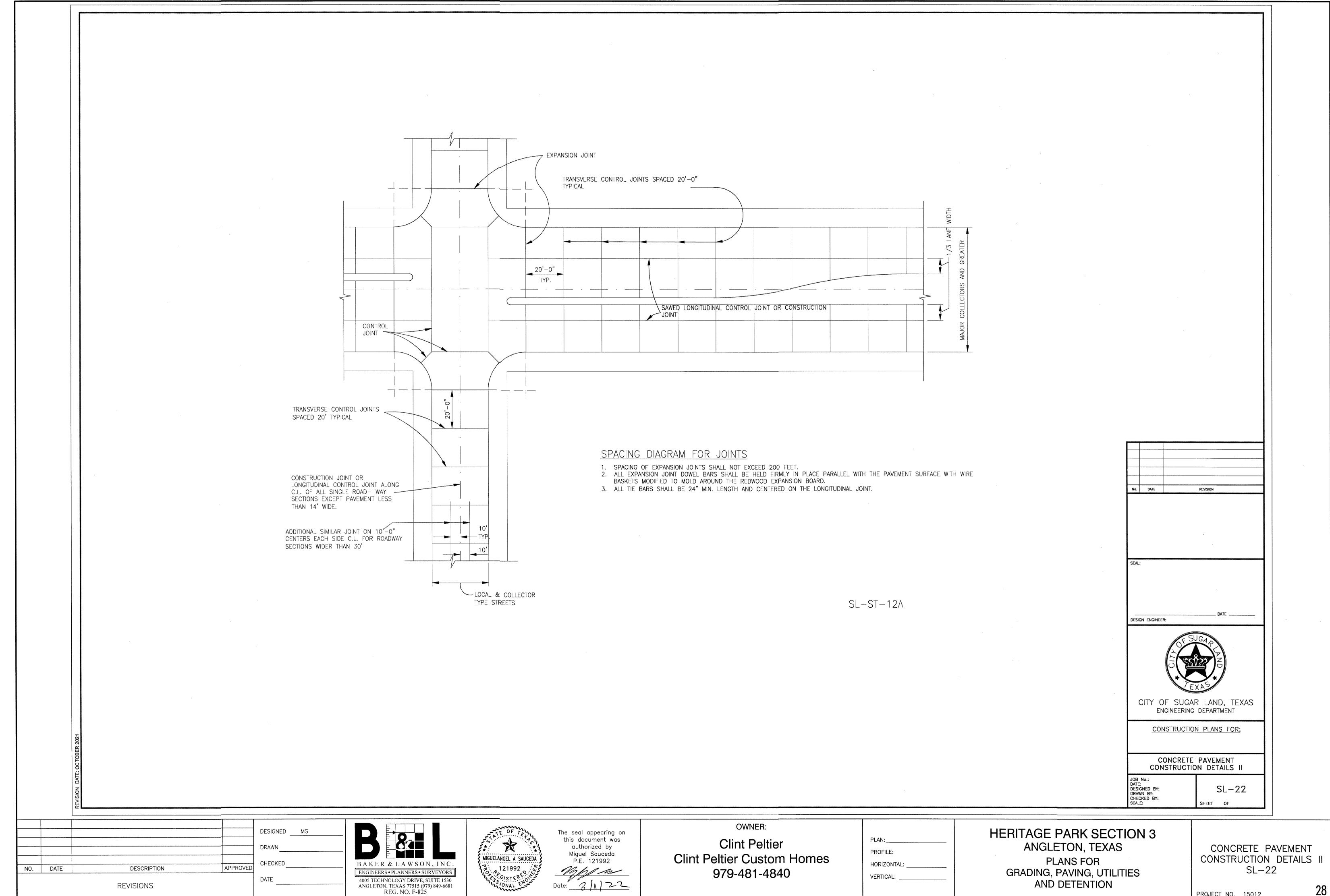
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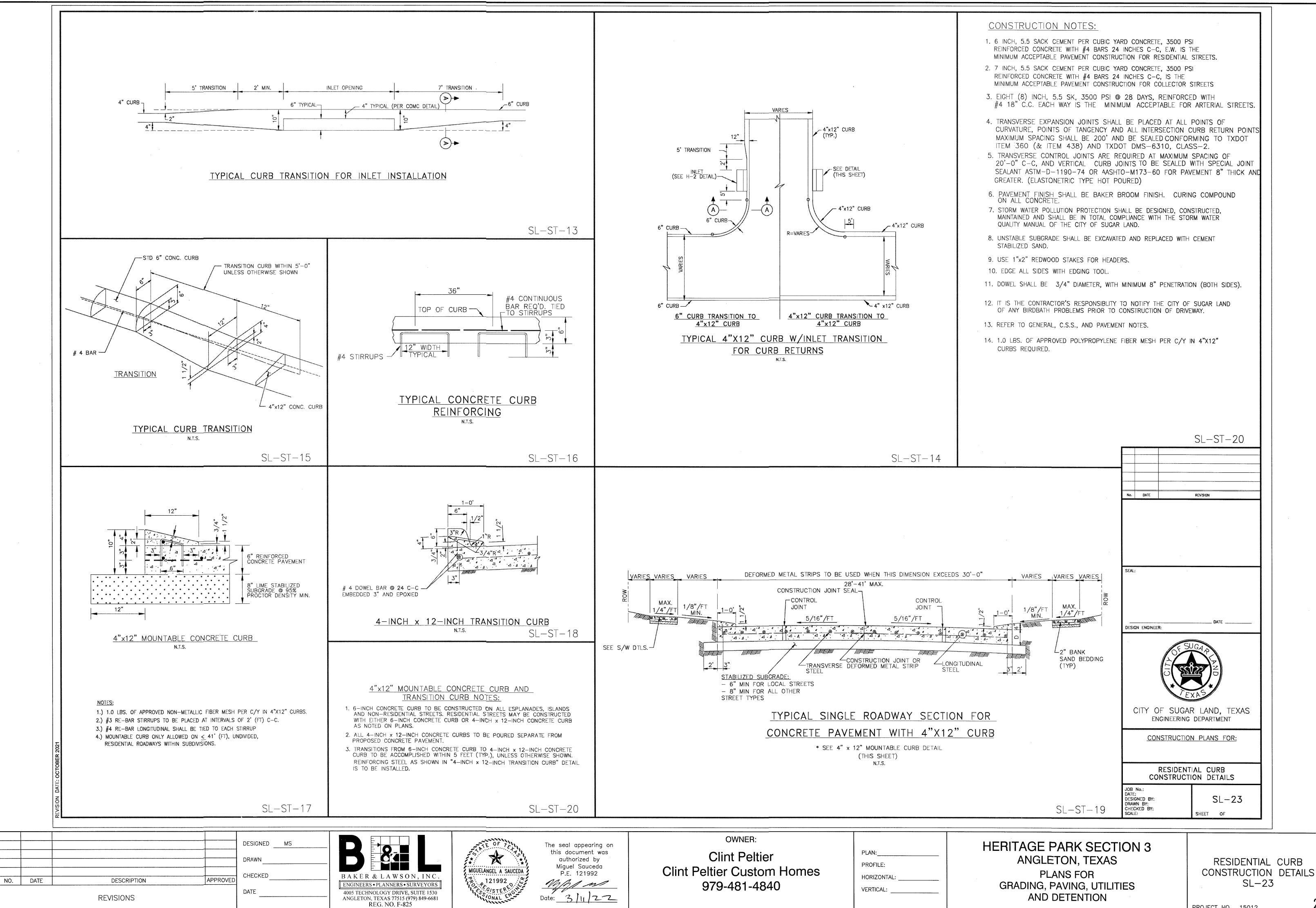
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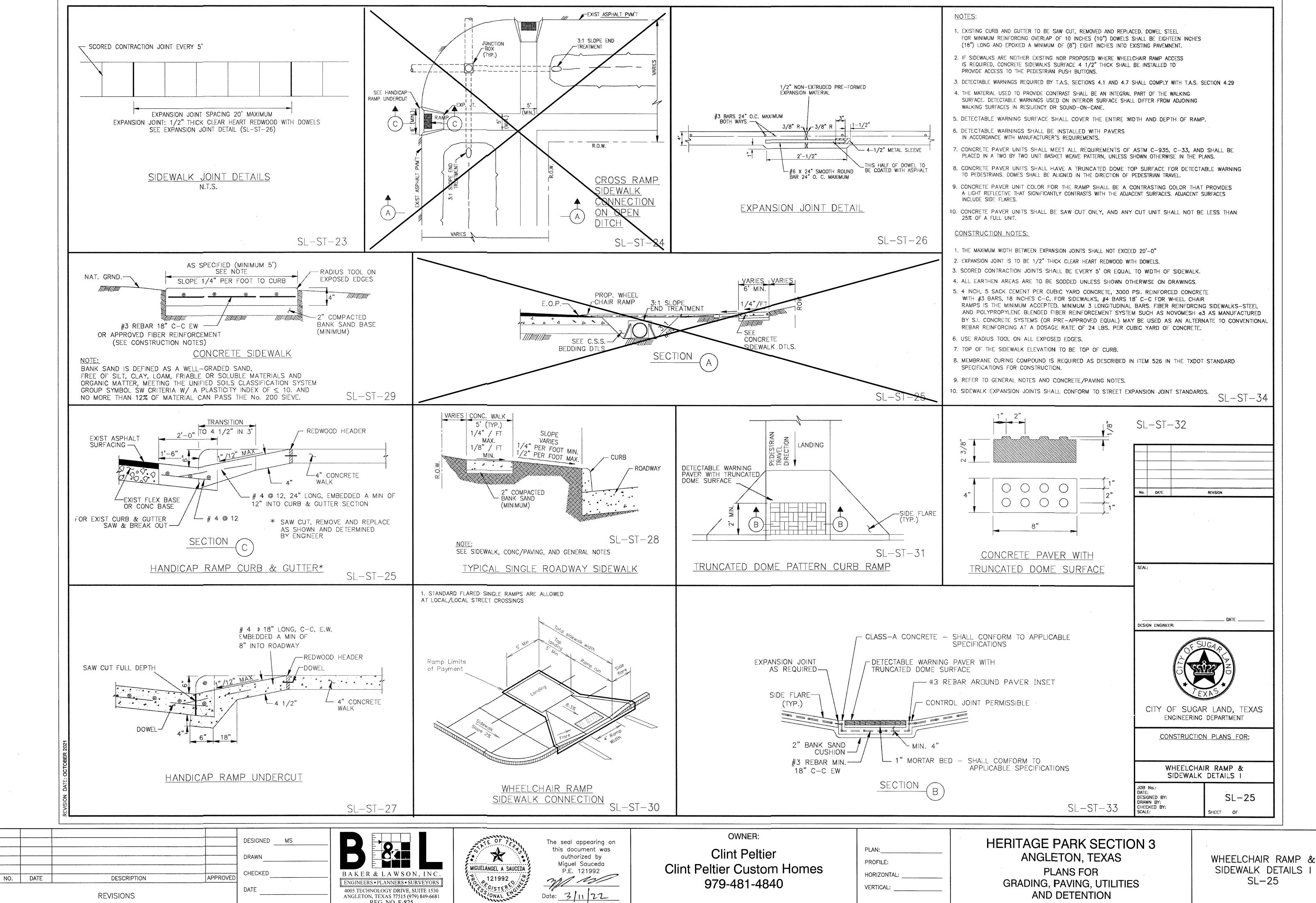
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SEWER FORCE MAIN
BEDDING DETAILS
SL-19





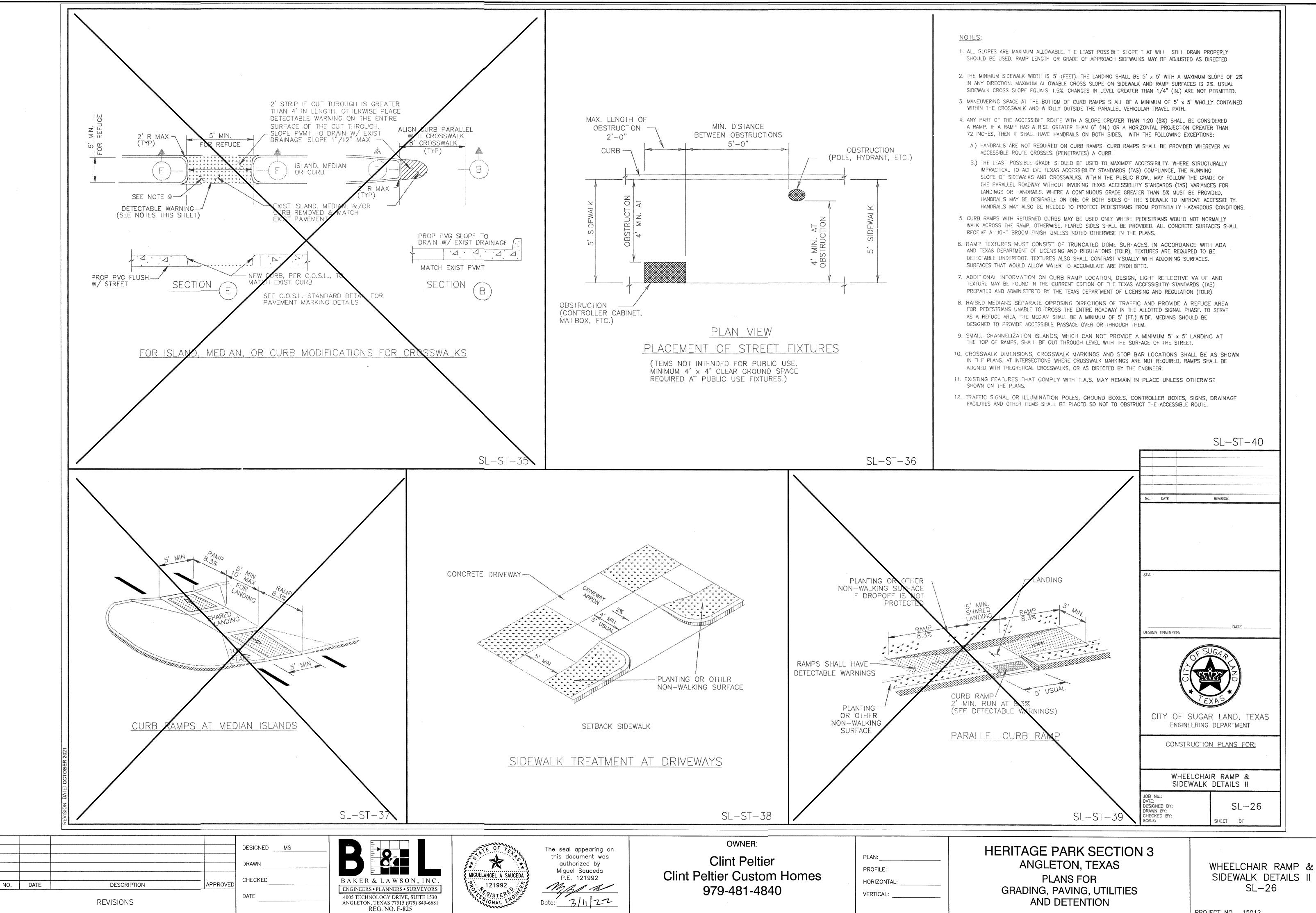






REG. NO. F-825

SIDEWALK DETAILS



SIDEWALK DETAILS II SL-26

### HYPER-CHLORINATED WATER NOTES

- 1. HYPER-CHLORINATED WATER SHALL NOT BE DISCHARGED TO THE STORM SEWER OR DRAINAGE SYSTEM UNLESS THE CHLORINE CONCENTRATION IS REDUCED TO 4 PPM OR LESS BY CHEMICALLY TREATING THE DECHLORINATE OR BY ONSITE RETENTION UNTIL NATURAL ATTENUATION OCCURS.
- DISCHARGE OF HIGH FLOW RATE AND VELOCITIES SHALL BE DIRECTED TO VELOCITY DISSIPATION DEVICES.
   CHLORINE CAN BURN VEGETATION, SO IT SHOULD NOT BE USED TO WATER
- VEGETATION THAT IS BEING USED FOR STABILIZATION, VEGETATED FILTERS OR BUFFERS, OR OTHER VEGETATION TO BE PRESERVED.

  4. HYPER—CHLORINATED WATER MAY BE DISCHARGED TO AN ONSITE RETENTION

AREA UNTIL NATURAL ATTENUATION OCCURS. THE AREA MAY BE A DRY

TO FORM A TEMPORARY PIT OR BERMED AREA.

5. NATURAL ATTENUATION OF THE CHLORINE MAY BE AIDED BY AERATION. AIR CAN BE ADDED TO THE WATER BY DIRECTING THE DISCHARGE OVER A ROUGH SURFACE BEFORE IT ENTERS THE TEMPORARY RETENTION AREA OR AN

STORMWATER RETENTION BASIN, OR A PORTION OF THE SITE MAY BE GRADED

AERATION DEVICE CAN BE PLACED IN THE RETENTION AREA.

6. ONSITE DISCHARGE MAY REQUIRE SEVERAL HOURS TO A FEW DAYS BEFORE THE WATER IS SAFE TO DISCHARGE. THE RATE AT WHICH CHLORINE WILL ATTENUATE IS AFFECTED BY SOIL CONDITIONS AND WEATHER CONDITIONS. ATTENUATION WILL OCCUR QUICKEST DURING WARM, SUNNY, AND DRY PERIODS.

# SANITARY WASTE NOTES

- 1. THE CONTRACTOR SHALL PROVIDE AN APPROPRIATE NUMBER OF PORTABLE TOILETS BASED ON THE NUMBER OF EMPLOYEES USING THE TOILETS AND THE HOURS THEY WILL WORK.
- 2. SANITARY FACILITIES SHALL BE PLACED ON A MINIMUM OF 50 FEET AWAY FROM STORM DRAIN INLETS, CONVEYANCE, CHANNELS OR SURFACE WATERS. IF UNABLE TO MEET THE 50 FOOT REQUIREMENT DUE TO SITE CONFIGURATION, PORTABLE TOILETS SHALL BE A MINIMUM OF 20 FEET AWAY FROM STORM DRAIN INLETS, CONVEYANCE CHANNELS OR SURFACE WATER AND SECONDARY CONTAINMENT SHALL BE PROVIDE IN CASE OF SPILLS.
- 3. THE LOCATION OF THE PORTABLE TOILETS SHALL BE ACCESSIBLE TO MAINTENANCE TRUCKS WITHOUT DAMAGING EROSION AND SEDIMENT CONTROLS OR CAUSING EROSION OR TRACKING PROBLEMS.
- 4. SANITARY FACILITIES SHALL BE FULLY ENCLOSED AND DESIGNED IN A MANNER THAT MINIMIZES THE EXPOSURE OF SANITARY WASTE TO PRECIPITATION AND STORMWATER RUNOFF.
- 5. WHEN HIGH WINDS ARE EXPECTED, PORTABLE TOILETS SHALL BE ANCHORED OR OTHERWISE SECURED TO PREVENT THEM FROM BEING BLOWN OVER.
- 6. THE COMPANY THAT SUPPLIES AND MAINTAINS THE PORTABLE TOILETS SHALL BE NOTIFIED IMMEDIATELY IF A TOILET IS TIPPED OVER OR DAMAGED IN A WAY THAT THE RESULTS IN A DISCHARGE. DISCHARGED SOLID MATTER SHALL BE VACUUMED INTO A SEPTIC TRUCK BY THE COMPANY THAT MAINTAINS THE TOILETS.
- 7. THE OPERATOR OF THE MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) SHALL BE NOTIFIED IF A DISCHARGE FROM THE PORTABLE TOILETS ENTERS THE MS4 OR A NATURAL CHANNEL.
- 8. SANITARY FACILITIES SHALL NOT BE PERMITTED ON PUBLIC SIDEWALKS, STREETS OR INLETS.

# DEBRIS AND TRASH NOTES

- ALL WASTE SOURCES AND STORAGE AREAS SHALL BE LOCATED A MINIMUM OF 50 FEET AWAY FROM INLETS, SWALES, DRAINAGE WAYS, CHANNELS AND OTHER WATERS, IF THE SITE CONFIGURATION PROVIDES SUFFICIENT SPACE TO DO SO. IN NO CASE SHALL MATERIAL AND WASTE SOURCES BE CLOSER THAN 20 FROM INLETS, SWALES, DRAINAGE WAYS, CHANNELS, AND OTHER WATERS.
   CONSTRUCTION WASTE AND TRASH SHALL BE STORED IN A MANNER THAT
- MINIMIZES ITS EXPOSURE TO PRECIPITATION AND STORMWATER RUNOFF.

  3. WHENEVER POSSIBLE, MINIMIZE PRODUCTION OF DEBRIS AND TRASH.

  4. INSTRUCT CONSTRUCTION WORKERS IN PROPER DEBRIS AND TRASH STORAGE
- AND HANDLING PROCEDURES.
- 5. SEGREGATE POTENTIAL HAZARDOUS WASTE FROM NON-HAZARDOUS CONSTRUCTION SITE DEBRIS.
- 6. PROHIBIT LITTERING BY WORKERS AND VISITORS.
- POLICE SITE DAILY FOR LITTER AND DEBRIS.
   ENFORCE SOLID WASTE HANDLING AND STORAGE PROCEDURES.
- 9. IF FEASIBLE, RECYCLE CONSTRUCTION AND DEMOLITION DEBRIS SUCH AS WOOD, METAL, AND CONCRETE,
- 10. TRASH AND DEBRIS SHALL BE REMOVED FROM THE SITE AT REGULAR INTERVALS THAT ARE SCHEDULED TO EMPTY CONTAINERS WHEN THEY ARE 90 PERCENT FULL OR MORE FREQUENTLY.
- 11. GENERAL CONSTRUCTION DEBRIS MAY BE HAULED TO A LICENSED CONSTRUCTION DEBRIS LANDFILL.
- 12. USE WASTE AND RECYCLING HAULERS/FACILITIES APPROVED BY THE LOCAL MUNICIPALITY.
- 13. CHIPPING OF TREES AND BRUSH FOR USE SUCH AS MULCH IS PREFERRED ALTERNATIVE TO OFFSITE DISPOSAL.
- ALTERNATIVE TO OFFSITE DISPOSAL.

  14. NO WASTE, TRASH, OR DEBRIS SHALL BE BURIED, BURNED OR OTHER WISE
- DISPOSED OF ONSITE.

  15. CLEARLY MARK ON ALL DEBRIS AND TRASH CONTAINERS WHICH MATERIALS

  ARE ACCEPTABLE. FOREMAN AND/OR CONSTRUCTION SUPERVISOR SHALL

  MONITOR ONSITE SOLID WASTE STORAGE AND DISPOSAL PROCEDURES DAILY.

# CONCRETE SAWCUTTING WASTE NOTES

- 1. DURING SAWCUTTING OPERATIONS, THE SLURRY AND CUTTINGS SHALL BE CONTINUOUSLY VACUUMED OR OTHERWISE RECOVERED AND NOT BE ALLOWED TO DISCHARGE FROM THE SITE
- TO DISCHARGE FROM THE SITE.

  2. IF THE PAVEMENT TO BE CUT IS NEAR A STORM DRAIN INLET, THE INLET SHALL BE BLOCKED BY SANDBAGS OR EQUIVALENT TEMPORARY MEASURES TO PREVENT THE SLURRY FROM ENTERING THE INLET. REMOVE THE SANDBAGS IMMEDIATELY AFTER COMPLETING SAWCUTTING OPERATIONS, SO THEY DO NOT
- CAUSE DRAINAGE PROBLEMS DURING STORM EVENTS.

  3. SLURRY AND CUTTINGS SHALL NOT BE ALLOWED TO REMAIN ON THE PAVEMENT TO DRY OUT
- DEVELOP PRE-DETERMINED, SAFE SLURRY DISPOSAL AREAS.
   COLLECTED SLURRY AND CUTTINGS SHOULD BE IMMEDIATELY HAULED FROM THE SITE FOR DISPOSAL AT A WASTE FACILITY. IF THIS IS NOT POSSIBLE, THE SLURRY AND CUTTINGS SHALL BE DISCHARGED INTO ONSITE
- CONTAINMENT.

  6. THE ONSITE CONTAINMENT MAY BE EXCAVATED OR BERMED PIT LINED WITH PLASTIC MINIMUM OF 10 MILIMETERS THICK. IF THE PROJECT INCLUDES PLACEMENT OF NEW CONCRETE, SLURRY FROM SAWCUTTING MAY BE DISPOSED OF IN FACILITIES DESIGNATED FOR THE WASHOUT OF CONCRETE
- TRUCKS INSTEAD CONSTRUCTING A SEPARATE CONTAINMENT.

  7. THE CONTAINMENT SHALL BE LOCATED A MINIMUM OF 50 FEET AWAY FROM INLETS, SWALES, DRAINAGE WAYS, CHANNELS, AND OTHER WATERS, IF THE SITE CONFIGURATION PROVIDES SUFFICIENT SPACE TO DO SO. IN NO CASE SHALL THE COLLECTION AREA BE CLOSER THAN 20 FEET FROM INLETS,
- SWALES, DRAINAGE WAYS, CHANNELS AND OTHER WATERS.

  8. SEVERAL, PORTABLE, PRE—FABRICATED, CONCRETE WASHOUT, COLLECTION BASINS ARE COMMERCIALLY AVAILABLE AND ARE AN ACCEPTABLE ALTERNATIVE TO AN ONSITE CONTAINMENT PIT.
- 9. REMOVE WASTER CONCRETE WHEN THE CONTAINMENT IS HALF FULL. ALWAYS MAINTAIN A MINIMUM OF ONE FOOT FREEBOARD.
- 10. ONSITE EVAPORATION OF SLURRY WATER AND RECYCLING OF THE CONCRETE WASTE IS THE PREFERRED DISPOSAL METHOD. WHEN THIS IS NOT FEASIBLE, DISCHARGE FROM THE COLLECTION AREA SHALL ONLY BE ALLOWED IF A PASSIVE TREATMENT SYSTEM IS USED TO REMOVE THE FINES. MECHANICAL MIXING IS REQUIRED IN THE COLLECTION AREA. THE pH MUST BE TESTED, AND DISCHARGED IS ALLOWED IN IF THE pH DOES NOT EXCEED 8.0. THE pH MAY BE LOWERED BY ADDING SULFURIC ACID TO THE SLURRY WATER.
- 11. CARE SHALL BE EXERCISED WHEN TREATING THE SLURRY WATER FOR DISCHARGE. MONITORING MUST BE IMPLEMENTED TO VERIFY THAT DISCHARGES FROM THE COLLECTION AREA DO NOT VIOLATE GROUNDWATER OR SURFACE WATER QUALITY STANDARDS.
- 12. GEOTEXTILE FABRICS SUCH AS THOSE USED FOR SILT FENCE SHOULD NOT BE USED TO CONTROL SAWCUTTING WASTE, SINCE THE GRAIN SIZE IS SIGNIFICANTLY SMALLER THAN THE APPARENT OPENING SIZE OF THE FABRIC.

# SPILL AND LEAK RESPONSE NOTES

- 1. RECORDS OF RELEASES THAT EXCEED THE REPORTABLE QUANTITY (RQ) FOR OIL AND HAZARDOUS SUBSTANCES SHOULD BE MAINTAINED IN ACCORDANCE
- WITH THE FEDRAL AND STATE REGULATIONS.

  2. EMERGENCY CONTACT INFORMATION AND SPILL RESPONSE PROCEDURES SHALL BE POSTED IN A READILY AVAILABLE REA FOR ACCESS BY ALL EMPLOYEES AND SUBCONTRACTORS.
- 3. SPILL CONTAINMENT KITS SHOULD BE MAINTAINED FOR PETROLEUM PRODUCTS AND OTHER CHEMICALS THAT ARE REGULARLY ONSITE. MATERIALS IN KITS SHOULD BE BASED ON CONTAINMENT GUIDELINES IN THE MATERIALS SAFETY AND DATA SHEETS (MSDSS) FOR THE SUBSTANCE MOST FREQUENTLY ONSITE.
- 4. SPILL KITS ARE INTÈNDED FOR RESPONSE TO SMALL SPILLS, TYPICALLY LESS THAN 5 GALLONS, OF SUBSTANCES THAT ARE NOT EXTREMELY HAZARDOUS.
   5. SIGNIFICANT SPILLS OR OTHER RELEASES WARRANT IMMEDIATE RESPONSE BY
- TRAINED PROFESSIONALS.
- 6. SUSPECTED JOB-SITE CONTAMINATION SHOULD BE IMMEDIATELY REPORTED TO REGULATORY AUTHORITIES AND PROTECTIVE ACTIONS TAKEN.
   7. THE CONTRACTOR SHOULD BE REQUIRED TO DESIGNATE A SITE
- SUPERINTENDENT, FOREMAN, SAFETY OFFICER, OR OTHER SENIOR PERSON WHO IS ONSITE DAILY TO BE THE SPILL AND LEAK RESPONSE COORDINATOR (SLRC) AND MUST HAVE KNOWLEDGE OF AND BE TRAINED IN CORRECT SPILL AND LEAK RESPONSE PROCEDURES.

# SUBGRADE STABILIZATION NOTES

- MINIMIZE THE DISCHARGE OF THE CHEMICAL STABILIZERS BY THE CONTRACTOR LIMITING THE AMOUNT OF STABILIZING AGENT ONSITE TO THAT WHICH CAN BE THOROUGHLY MIXED AND COMPACTED BY THE END OF EACH WORKDAY.
- STABILIZERS SHALL BE APPLIED AT RATES THAT RESULT IN NO RUN OFF.
   STABILIZATION SHALL NOT OCCUR IMMEDIATELY BEFORE AND DURING RAINFALL EVENTS.
- 4. NO TRAFFIC OTHER THAN WATER TRUCKS AND MIXING EQUIPMENT SHALL BE ALLOWED TO PASS OVER THE AREA BEING STABILIZED UNTIL AFTER COMPLETION OF MIXING THE CHEMICAL.
- 5. AREA ADJACENT AND DOWNSTREAM OF STABILIZED AREAS SHALL BE ROUGHENED TO INTERCEPT CHEMICAL RUNOFF AND REDUCE RUNOFF
- 6. GEOTEXTILE FABRICS SUCH AS THOSE USED FOR SILT FENCE SHOULD NOT BE USED TO TREAT CHEMICAL RUNOFF, BECAUSE THE CHEMICALS ARE DISSOLVED IN THE WATER AND WON'T BE AFFECTED BY A BARRIER AND THE SUSPENDED SOLIDS ARE SIGNIFICANTLY SMALLER THAN THE APPARENT OPENING SIZE OF THE FABRIC.
- 7. IF SOIL STABILIZERS ARE STORED ONSITE, THEY SHALL BE CONSIDERED HAZARDOUS MATERIAL AND SHALL BE MANAGED ACCORDING TO THE CRITERIA OF CHEMICAL MANAGEMENT TO CAPTURE ANY ACCIDENTAL LIME OR CHEMICAL OVERFLOW.
- 8. THE CONTRACRTOR SHALL INSTALL BMP'S TO ALL INLETS AND OPENINGS CONNECTED TO THE STORM SEWER SYSTEMS TO PREVENT LIME FROM ENTERING THE MS4 SYSTEM.

# SANDBLASTING WASTE NOTES

- 1. THE CONTRACTOR SHOULD BE REQUIRED TO DESIGNATE THE SITE SUPERINTENDENT, FOREMAN, OR OTHER PERSON WHO IS RESPONSIBLE FOR SANDBLASTING TO ALSO BE RESPONSIBLE FOR SANDBLASTING WASTE MANAGEMENT.
- 2. PROHIBIT THE DISCHARGE OF SANDBLASTING WASTE.
- USE ONLY INERT, NON-DEGRADABLE SANDBLAST MEDIA.
   USE APPROPRIATE EQUIPMENT FOR THE JOB; DO NOT OVER-BLAST.
- 5. WHENEVER POSSIBLE, BLAST IN A DOWNWARD DIRECTION.
  6. CEASE BLASTING ACTIVITIES IN HIGH WINDS OR IF WIND DIRECTION COULD
- TRANSPORT GRIT TO DRAINAGE FACILITIES.
  7. INSTALL DUST SHIELDING AROUND SANDBLASTING AREAS.
- 8. COLLECT AND DISPOSE OF ALL SPENT SANDBLAST GRIT, USE DUST CONTAINMENT FABRICS AND DUST COLLECTION HOPPERS AND BARRELS.
- 9. NON-HAZARDOUS SANDBLAST GRIT MAY BE DISPOSED IN PERMITTED
- CONSTRUCTION DEBRIS LANDFILLS OR PERMITTED SANITARY LANDFILLS.

  10. IF SANDBLAST MEDIA CANNOT BE FULLY CONTAINED, CONSTRUCT SEDIMENT
- TRAPS DOWNSTREAM FROM BLASTING AREA WHERE APPROPRIATE.

  11. USE SAND FENCING WHERE APPRORIATE IN AREAS WHERE BLAST MEDIA
- CANNOT BE FULLY CONTAINED.
- 12. IF NECESSARY, INSTALL MISTING EQUIPMENT TO REMOVE SANDBLAST GRIT FROM THE AIR PREVENT RUNOFF FROM MISTING OPERATIONS FROM ENTERING DRAINAGE SYSTEMS.
- 13. USE VACUUM GRIT COLLECTION SYSTEMS WHERE POSSIBLE.
  14. KEEP RECORDS OF SANDBLASTING MATERIALS, PROCEDURES, AND WEATHER
- CONDITIONS ON A DAILY BASIS.

  15. TAKE ALL REASONABLE PRECAUTIONS TO ENSURE THAT SANDBLASTING GRIT IS
- CONTAINED AND KEPT AWAY FROM DRAINES STORES THAT SANDBLASTING GRIT
- 16. SAND BLASTING MEDIA SHOULD ALWAYS BE STORED UNDER COVER AWAY FROM DRAINAGE STRUCTURES.
- 17. ENSURE THAT STORED MEDIA OR GRIT IS NOT SUBJECTED TO TRANSPORT BY
- 18. ENSURE THAT ALL SANDBLASTING EQUIPMENT AND STORAGE CONTAINERS COMPLY WITH CURRENT LOCAL, STATE, AND FEDERAL REGULATIONS.
- 19. CAPTURE AND TREAT RUNOFF, WHICH COMES INTO CONTACT WITH SANDBLASTING MATERIALS OR WASTE.

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DATE

DESIGN ENGINEER:

DATE

DATE

CITY OF SUGAR LAND, TEXAS ENGINEERING DEPARTMENT

CONSTRUCTION PLANS FOR:

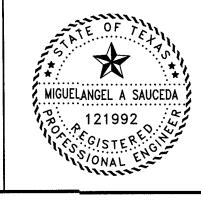
GENERAL EROSION CONTROL NOTES

JOB NO.:
DATE:
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CHECKED BY:

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HERITAGE PARK SECTION 3
ANGLETON, TEXAS
PLANS FOR
GRADING, PAVING, UTILITIES
AND DETENTION

GENERAL EROSION CONTROL NOTES SL-33

PROJECT NO. 15012

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