CITY OF ROLLINGWOOD, TEXAS

	SHEET INDEX								
#	ID	DESCRIPTION							
1	G001	COVER SHEET							
2	G002	GENERAL NOTES							
3	G003	CONSTRUCTION NOTES							
4	G004	ESTIMATED QUANTITIES							
5	G005	HORIZONTAL CONTROL LAYOUT SHEET							
6	DP101	DEMOLITION AND PROTECTION PLAN							
7	DP102	DEMOLITION AND PROTECTION PLAN							
8	DA101	DRAINAGE AREA MAP							
9	CA01	STORM SEWER HYDRAULIC CALCULATIONS							
10	PLPR01	STORM SEWER PLAN & PROFILE STA. 10+00.00-13+50.00							
11	PLPR02	STORM SEWER PLAN & PROFILE STA. 13+50.00-16+20.00							
12	PLPR03	STORM SEWER PLAN & PROFILE STA. 16+20.00-19+00.42							
13	PLPR04	SDL-B, SDL-C & SDL-D LATERAL PLAN & PROFILES							
14	SDPL1	SDL-B AND DETENTION POND OUTFALL							
15	DET01	DRAINAGE & PAVEMENT DETAILS							
16	DET02	DRAINAGE & PAVEMENT DETAILS							
17	DET03	DRAINAGE & PAVEMENT DETAILS							
18	DET04	DRAINAGE & PAVEMENT DETAILS							
19	DET05	DRAINAGE & PAVEMENT DETAILS							
20	DET06	DRAINAGE & PAVEMENT DETAILS							
21	DET07	DRAINAGE & PAVEMENT DETAILS							
22	DET08	DRAINAGE & PAVEMENT DETAILS							
23	SDPL1	WATER AND SANITARY SEWER LOCATIONS							
24	GD101	GRADING PLAN							
25	EC101	EROSION CONTROL PLAN							
26	EC102	EROSION CONTROL PLAN							
27	EC501	EROSION CONTROL DETAILS							
28	CT101	TRAFFIC CONTROL PLAN							
29	CT501	TRAFFIC CONTROL DETAILS							
30	CV101	WATER SERVICE RELOCATION PLAN							
31	CV102	WATER ABANDONMENT PLAN							
32	CV501	WATER DETAILS							

CITY OF ROLLINGWOOD PROPOSED DRAINAGE IMPROVEMENTS FOR HUBBARD CIRCLE, HATLEY DRIVE AND PICKWICK LANE



LOCATION MAP N.T.S.

MAYOR

GAVIN MASSINGILL **COUNCIL MEMBERS**

> SARA HUTSON ALEC ROBINSON **BROOK BROWN** PHIL McDUFFEE **ROXANNE McKEE**

INTERIM CITY ADMINISTRATOR ASHLEY WAYMAN



PREPARED & SUBMITTED FOR APPROVAL BY:

PRELIMINARY

THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF INTERIM REVIEW UNDER THE AUTHORITY OF GEOFF ELFERS, P.E. LIC. # 133555 03/15/2023.

IT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES.

GEOFF ELFERS, P.E

DATE

RECOMMENDED FOR APPROVAL BY:

MAYOR GAVIN MASSINGILL - CITY OF ROLLINGWOOD

DATE

OF ROLLINGWOOD DRAINAGE IMPROVEMENTS

CIT

ROPO

Ω

ASHLEY WAYMAN - INTERIM CITY ADMINISTRATOR

DATE



1120 S. Capital of Texas Highway CityView 2, Suite 100 Austin, Texas 78746 P - 512.338.1704 F - 512.338.1784 TBPE Firm #6535 www.kfriese.com

100% SUBMITTAL



ENERAL NOTES:	
THE CONTRACTOR WILL NOTIFY THE OWNER'S REPRESENTATIVE FORTY-EIGHT (48 HOURS IN ADVANCE OF BEGINNING ANY CONSTRUCTION IN THE RIGHT OF WAY OF EASEMENTS.) 22. THE CONTRACTOR SHALL ENSUR MAINTAINED AT ALL TIMES REGA TRENCHES SHALL BE COVERED A PROGRESS. THE TRENCH COVER
CONTRACTOR SHALL PROVIDE A ONE CALL CENTER CONFIRMATION NUMBER BEFORE BEING ISSUED AN EXCAVATION PERMIT. "ONE CALL" PHONE NUMBER: 811.	23. ALL TRENCH SAFETY CONSTRUCT
THE INFORMATION SHOWN ON THESE DRAWINGS INDICATING TYPE AND LOCATION OF SURFACE, SUBSURFACE, AND AERIAL UTILITIES IS NOT GUARANTEED TO BE EXACT OF COMPLETE. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT TYPE AND LOCATION OF ALL UTILITIES AFFECTED BY THE CONSTRUCTION IN ORDER TO AVOID DAMAGING THOSE UTILITIES	ACCORDANCE WITH OSHA SPECIFI CONTRACT DOCUMENTS WHICH INC TRENCH SAFETY MEASURES.
THE CONTRACTOR SHALL COORDINATE WITH OTHER CONTRACTORS AND UTILITIES IN THE VICINITY OF THIS PROJECT. THIS INCLUDES, BUT IS NOT LIMITED TO, GAS, WATEF	
WASTEWATER, ELECTRIC, TELEPHONE, CABLE TELEVISION, PETROLEUM PIPELINES FIBER OPTIC, STREET, DRAINAGE, AND ANY OTHER WORK OCCURRING IN OR NEAR THE PROJECT SITE. ONCE THE CONTRACTOR BECOMES AWARE OF A POSSIBLE CONFLICT, I' IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNER'S REPRESENTATIVI IMMEDIATELY, BUT NO LATER THAN TWENTY-FOUR (24) HOURS AFTER DISCOVERY.	23. ACCESS TO ALL SIDE STREETS AND THE SOLE EXPENSES OF THE CON OWNER'S REPRESENTATIVE. 26. CONTRACTOR SHALL NOTIFY THE
SHOULD THE CONTRACTOR DAMAGE A UTILITY DURING THE COURSE OF THE WORK, THE CONTRACTOR SHALL IMMEDIATELY ARRANGE FOR REPAIR AND RESTORATION OF THE DAMAGED UTILITY. THE EXPENSE FOR THESE REPAIRS WILL BE AT THE CONTRACTOR'S SOLE EXPENSE.	(512-328-1900) AND THE WESTLAK CONSTRUCTION SCHEDULES AT L CONSTRUCTION OPERATIONS. CONT ABOUT LANE CLOSURES AND DET ACTIVITY WHICH MAY INTERFERE WI
ALL EXISTING STRUCTURES, FACILITIES, AND UTILITIES DAMAGED BY CONSTRUCTION SHALL BE REMOVED AND RESTORED WITH MATERIALS EQUAL TO OR BETTER THAN THE ORIGINAL AND TO CONDITIONS EQUAL TO OR BETTER THAN THE ORIGINAL. UNLESS OTHERWISE NOTED IN THE PLANS, THIS WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT SHALL BE AT THE CONTRACTOR'S SOLE EXPENSE.	27. CONTRACTOR SHALL MAINTAIN TH MANNER AT ALL TIMES. JOB UNATTRACTIVE NUISANCE SHALL BE WHEN DIRECTED BY THE OWNER O CAMOUFLAGE ANY CHILD ATTRACTIV
SLOPES OF ROADWAY CUTS AND EMBANKMENTS DAMAGED BY ANY OPERATION OF THE CONTRACTOR DURING THE EXECUTION OF THIS PROJECT SHALL BE REPAIRED AND RESTORED TO THE ORIGINAL PRE-CONSTRUCTION CONDITION. BACKFILL AND FILI PLACED DURING REMEDIAL GRADING SHALL BE COMPACTED TO AT LEAST 95% COMPACTION AND TO THE SATISFACTION OF THE ENGINEER AND GOVERNING AUTHORITIES.	28. ALL CONSTRUCTION EQUIPMENT IN WITH A PERMANENTLY MOUNTED 3 AMBER LENS IN WORKING ORDER. 5" AND A DIAMETER OF 5". THIS LIG THAN 6 FEET ABOVE ROADWAY SUF
THE SITE IS LOCATED IN THE EDWARD'S AQUIFER RECHARGE ZONE.	THIS EQUIPMENT SHALL ALSO HAVE VEHICLE AN APPROVED ORANGE W ABOVE THE ROADWAY SURFACE.
THE CONTRACTOR SHALL NOTIFY ALL RESIDENTS WITHIN THE CONSTRUCTION AREAS 44 HOURS PRIOR TO BEGINNING CONSTRUCTION OF THE PROJECT VIA DOOR FLYERS. THE FLYER IS TO CONSIST OF, BUT IS NOT LIMITED TO: A. CONSTRUCTION START DATE AND ESTIMATED COMPLETION DATE.	29. ALL DAMAGE CAUSED DIRECTLY SUBSURFACE OUTSIDE OF THE PAV
 B. DESCRIPTION OF CONSTRUCTION. C. TIME FRAME THE RESIDENT WILL BE WITHOUT WATER IF TEMPORARY SHUTDOWNS ARE REQUIRED, PROVIDED 48 HOURS IN ADVANCE OF WORK. D. CONTRACTOR'S CONTACT INFORMATION. E. CITY'S CONTACT INFORMATION. 	DEPRESSIONS, AND/OR ANY OTI DURING THE EXECUTION OF THE W THE TOTAL AREA OF REPAIR. THE A BE SAW CUT IN STRAIGHT, NEAT REPAIRS SHALL BE AT THE CONT TESTING REQUIREMENTS.
D. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ANY NECESSARY OFFSITE LOCATIONS FOR STORAGE OF ALL EQUIPMENT AND MATERIALS REQUIRED FOR THE CONSTRUCTION OF THE PROJECT.	30. ANY EXCAVATION EXCEEDING THE ONSITE TO BACKFILL OR CONT PLATING PLANS TO THE CITY OF APPROVAL PRIOR TO STARTING WOR
. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL WASTE MATERIALS DURING CONSTRUCTION AND UPON COMPLETION. THIS WORK WILL BE DONE IN A TIMELY MANNER AS APPROVED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOF DIRECTLY, BUT CONSIDERED SUBSIDIARY TO THE VARIOUS BID ITEMS.	31. FOR OVERNIGHT PROTECTION OF W TO CITY OF AUSTIN STANDARD DET REFER TO STANDARD DETAIL 804S4
2. BLASTING WITHIN THE PROJECT AREA WILL NOT BE ALLOWED.	32. CONTRACTOR SHALL PERFORM W CURRENT ORDINANCES.
THE CONTRACTOR SHALL BE PREPARED WITH ROCK EXCAVATION EQUIPMENT CAPABLE OF RIPPING THROUGH VERY HARD LIMESTONE SHOULD IT BE ENCOUNTERED FOR THE CONSTRUCTION SITE. BORING LOGS ARE PROVIDED IN THE GEOTECHNICAL REPORT FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR RESPONSIBLE FOR PERFORMING THEIR OWN TESTING IN THE FORM OF TEST PITS TO DETERMINE THE QUANTITIES OF THE DIFFERENT MATERIALS TO BE EXCAVATED, AS WELL AS THE PREFERRED METHODS AND FOR UPMENT FOR THE SITE	ALL DAMAGE CAUSED DIRECTLY OR IN
. CONTRACTOR WILL MINIMIZE USE OF STREET PARKING BY THEIR EMPLOYEES AND SUBCONTRACTORS IN THE VICINITY OF THE CONSTRUCTION AREA.	DRIVEWAY, CURB & GUTTER, OR SUBSUF BE REGARDED AS A PART OF THE ST GOUGES, CUTS, CRACKING, DEPRESSIO CONTRACTOR DURING THE EXECUTION
ALL LOCATIONS USED FOR STORING CONSTRUCTION EQUIPMENT, MATERIALS, AND STOCKPILES OF ANY TYPE WITHIN THE CONSTRUCTION LIMITS SHALL BE APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE. USE OF THE AREA WITHIN THE CONSTRUCTION LIMITS FOR THESE PURPOSES WILL BE RESTRICTED TO THOSE LOCATIONS WHERE DRIVER SIGHT DISTANCE TO BUSINESSES AND SIDE STREET	STRAIGHT, NEAT LINES PARALLEL TO THE NEXT EXISTING JOINT FOR SIDEWALKS A AT THE CONTRACTOR'S EXPENSE AND SH
INTERSECTIONS IS NOT OBSTRUCTED AND AT OTHER LOCATIONS WHERE AN UNSIGHTLY APPEARANCE AS DETERMINED BY THE OWNER'S REPRESENTATIVE WILL NOT EXIST.	PLAN NOTES:
ALL SITE WORK MUST COMPLY WITH ENVIRONMENTAL REQUIREMENTS INCLUDING TCEQ, TPDES STANDARDS, CLEANWATER ACT, TPDES GENERAL PERMIT TXR150000 (MS4), AND CITY OF ROLLINGWOOD REQUIREMENTS.	1. THE CONTRACTOR SHALL BE RESPO REGULAR BASIS, ALL EROSION AND S PRACTICES, INCLUDING SILT FENCES ETC., DURING CONSTRUCTION/DEMC DISPOSAL OF ANY ACCUMULATED SI
7. IF CULTURAL RESOURCES ARE ENCOUNTERED DURING CONSTRUCTION (ARCHAEOLOGICAL FINDS UNEARTHED) CONTRACTOR SHALL STOP WORK IN THAT AREA AND IMMEDIATELY CONTACT THE TEXAS HISTORICAL COMMISSION AT (512)4636100.	2. THE CONTRACTOR SHALL NOT BEGIN EROSION AND SEDIMENT CONTROL E FENCE, CONSTRUCTION ENTRANCES
3. THE CONTRACTOR SHALL UNCOVER AND VERIFY THE DEPTHS AND HORIZONTAL LOCATION OF ALL EXISTING WATER, WASTEWATER, AND GAS MAINS TO BE ALTEREL OR SUBJECT TO DAMAGE OR INCONVENIENCE BY THIS PROJECT PRIOR TO COMMENCING CONSTRUCTION. NO SEPARATE PAY ITEM.	3. THE CONTRACTOR SHALL BE RESPO DIRT, DEBRIS AND MATERIAL AT ALL A REGULAR BASIS AND AT THE DIREC
 FENCES, GATES, GROUND SURFACES, CURBS, DRIVEWAYS, MAILBOXES, ETC. SHALL BI LEFT IN A CONDITION EQUAL TO OR BETTER THAN THAT FOUND. 	4. INCREASED STORMWATER PEAK FLC WITH TEMPORARY BEST MANAGEME PROPERTIES.
). THE CONTRACTOR SHALL FURNISH, INSTALL AND MAINTAIN BARRICADES, WARNING SIGNS, FLASHERS AND OTHER DEVICES OF THE TYPE AND SIZE AS INDICATED IN THE LATEST EDITION OF THE 'TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES'' OF AS DIRECTED BY THE ENGINEER.	2 CONSTRUCTION SEQUENCING NO 1. PHASE 1 CONSTRUCTION ACTIVITIES
1. LANDSCAPED AREAS SHALL BE LEFT UNDISTURBED AS MUCH AS POSSIBLE DURING CONSTRUCTION. ALL AREAS THAT HAVE BEEN DISTURBED DURING CONSTRUCTION	2. PHASE 2 CONSTRUCTION ACTIVITIES

THAT ADEQUATE SAFETY PRECAUTIONS ARE RDING AREAS OF OPEN PIPE TRENCH. ALL PIPE ALL TIMES WHEN CONSTRUCTION IS NOT IN NG SHALL BE CAPABLE OF SUPPORTING TRAFFIC

ION OPERATIONS SHALL BE ACCOMPLISHED IN CATIONS, STATE OF TEXAS REQUIREMENTS, AND UDE A TRENCH SAFETY PLAN AND A PAY ITEM FOR

THE OPERATION IN SUCH A MANNER AS TO AVOID THE PUBLIC IN CONSTRUCTION AREAS.

DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES AT TRACTOR UNLESS OTHERWISE DIRECTED BY THE

CITY OF ROLLINGWOOD POLICE DEPARTMENT FIRE DEPARTMENT (512-539-3400) OF THE EAST TWO WEEKS IN ADVANCE OF PROPOSED RACTOR SHALL PROVIDE PERTINENT INFORMATION OURS AND ANY OTHER CONSTRUCTION RELATED H NORMAL SERVICES.

JOB SITE IN A SAFE, NEAT AND WORKMAN-LIKE SITE SAFETY SHALL NOT BE COMPROMISED ANY REMOVED OR CAMOUFLAGED BY CONTRACTOR R ENGINEER. CONTRACTOR SHALL REMOVE OR E NUISANCE.

VOLVED IN ROADWAY WORK SHALL BE EQUIPPED 0-DEGREE REVOLVING OR STROBE WARNING LIGHT HIS LIGHT SHALL HAVE A MINIMUM LENS HEIGHT OF HT SHALL HAVE A MOUNTING HEIGHT OF NOT LESS FACE AND SHALL BE VISIBLE FROM ALL SIDES. ATTACHED AT EACH SIDE OF THE REAR END OF THE ARNING FLAT MOUNTED, NOT LESS THAN 6 FEET

OR INDIRECTLY TO THE STREET SURFACE OR EMENT CUT AREA SHALL BE REGRADED AS A PART ICLUDES ANY SCRAPES, MOUSES, CUTS, CRACKING, HER DAMAGE CAUSED BY THE CONTRACTOR ORK. THESE AREAS WILL BE INCLUDED IN REAS OF REPAIR NEAR UTILITY TRENCHES SHALL LINES PARALLEL TO THE UTILITY TRENCH. ALL RACTOR'S EXPENSE AND SHALL MEET ALL CITY

STANDARD PLATING DETAIL SHALL HAVE MATERIAL RACTOR TO PROVIDE STRUCTURAL ENGINEERED ROLLINGWOOD PUBLIC WORKS DEPARTMENT FOR

DRK ZONE IN CITY OF ROLLINGWOOD R.O.W., REFER AIL 804S--4, 1 THRU 4 OF 9. IF PLATING IS NEEDED, , 7 OF 9.

ORK ONLY DURING HOURS ALLOWED PER THE

NOTE:

DIRECTLY TO THE STREET SURFACE, SIDEWALK, FACE OUTSIDE OF THE PAVEMENT CUT AREA SHALL EET CUT REPAIR. THIS INCLUDES ANY SCRAPES. NS, AND/OR ANY OTHER DAMAGE CAUSED BY THE OF THE WORK. THESE REPAIR AREAS WILL BE TORATION. THESE AREAS SHALL BE SAW CUT IN E EXCAVATION OR UTILITY TRENCH AND TO THE ND CURB & GUTTER. ALL SUCH REPAIRS SHALL BE ALL MEET ALL STANDARDS. AND SPECIFICATIONS.

SIBLE FOR MAINTAINING AND INSPECTING, ON A EDIMENT CONTROL BEST MANAGEMENT , CONSTRUCTION ENTRANCES, ROCK FILTER DAMS, LITION AND INCLUDING THE REMOVAL AND PROPER T AND DEBRIS.

ANY WORK UNTIL TREE PROTECTION AND THE EST MANAGEMENT PRACTICES SUCH AS SILT ROCK FILTER DAMS, ETC., HAVE BEEN INSTALLED.

ISIBLE FOR KEEPING THE STREETS FREE OF MUD, IMES AND SHALL CLEAN/SWEEP THE STREETS ON TION OF THE CITY.

WS DURING CONSTRUCTION MUST BE MITIGATED IT PRACTICES TO PREVENT HARM TO NEIGHBORING

ES:

SHALL INCLUDE CHANNEL CONSTRUCTION O 4+75 DOWNSTREAM TO UPSTREAM.

SHALL INCLUDE CONSTRUCTION OF THE STORM G FROM STATION 10+00.00 TO 13+80.00

ED IN A MANNER THAT WILL NOT DISTURB OR WORK

CONSTRUCTION ACCESS AND SEQUENCING NOTES: CHANNEL DEMOLITION AND CONSTRUCTION SHALL BE SEQUENCED FROM DOWNSTREAM TO UPSTREAM. EACH SEGMENT MUST BE ACCEPTED BY THE CITY PRIOR TO COMMENCING NEXT SEGMENT. THE CONTRACTOR SHALL SUBMIT AN ALTERNATE SEQUENCING PLAN FOR REVIEW AND ACCEPTANCE BY THE CITY IN WRITING. 2. EROSION AND CONTROL MEASURES MUST BE IN PLACE PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES.

- 3. NO MORE THAN (10) WORKING DAYS SHALL PASS BETWEEN COMPLETION OF DEMOLITION AND COMMENCEMENT OF PROPOSED CHANNEL ACTIVITIES.
- 4. CONTRACTOR SHALL REQUEST WRITTEN AUTHORIZATION FROM CITY PRIOR TO MOVING TO A NEW SEGMENT OF CONSTRUCTION. ALLOW FOR 3 DAYS FROM AUTHORIZATION REQUEST TO RECEIVE AUTHORIZATION TO PROCEED.
- 5. CARE OF WATER SHALL BE PROVIDED AT ALL TIMES SO AS NOT TO IMPEDE THE FLOW OF STORMWATER.
- 6. CONTRACTOR SHALL MAINTAIN DRAINAGE BETWEEN THE EXISTING CULVERT AND PROPOSED CULVERT AT 300 PLEASANT DURING ALL PHASES.
- 7. SUGGESTED POINTS OF ACCESS ARE SHOWN TO ASSIST THE CONTRACTOR WITH DEMOLITION AND MATERIAL ENTRY. LETTERS OF PERMISSION FOR THESE LOCATIONS ARE NOT INCLUDED WITH THE BID CONTRACT DOCUMENTS AND WILL BE COORDINATED WITH THE CITY.
- 8. CONTRACTOR SHALL NOTIFY PROPERTY OWNERS 48 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION RELATED ACTIVITIES ON THEIR PROPERTY.
- 9. CONTRACTOR SHALL MAINTAIN UP-TO-DATE COPIES OF ALL RIGHT-OF-ENTRY FORMS ON THE PROJECT SITE.
- 10. UPON COMPLETION OF WORK ALL STAGING AREAS SHALL BE RESTORED TO THE ORIGINAL LINES, GRADES, CLEARED OF ALL BRUSH AND DEBRIS, AND REVEGETATED PER SPECIFICATION 609S UNLESS OTHERWISE SPECIFIED IN THE PLANS.
- 11. ALL TREES, SIGNS, WALKWAYS, UTILITIES AND OTHER PHYSICAL FEATURES (WHETHER SHOWN OR NOT SHOWN ON THE PLANS) SHALL BE PROTECTED DURING CONSTRUCTION UNLESS OTHERWISE DIRECTED BY THE CITY OR IN THESE PLANS.
- 12. CONTRACTOR IS RESPONSIBLE FOR PROTECTING PRIVATE PROPERTY FROM DAMAGES, ALL PRIVATE PROPERTY DAMAGED BY CONSTRUCTION ACTIVITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
- 13. CONTRACTOR MAY NEGOTIATE ADDITIONAL ACCESS AND/OR STORAGE WITH INDIVIDUAL PROPERTY OWNERS AT THEIR EXPENSE.
- 14. CONTRACTOR IS RESPONSIBLE FOR EXPENSES DUE TO NEGLIGENCE.
- 15. CONTRACTOR SHALL OBTAIN APPROVAL FROM THE CITY TO REMOVE TREES NOT IDENTIFIED FOR REMOVAL ON THE DEMOLITION PLAN.
- 16. NO CONSTRUCTION STORAGE OR STAGING SHALL OCCUR WITHIN THE FEMA FLOODPLAIN.

SCHEDULING

- . CONTRACTOR TO PROVIDE ENGINEER WITH AN UPDATED SCHEDULE WEEKLY. IF NO CHANGES ARE MADE TO THE SCHEDULE FROM THE LAST SUBMITTAL. THE CONTRACTOR IS TO NOTIFY THE ENGINEER OF NO CHANGES.
- 2. THE CONTRACTOR SHALL SUBMIT A DETAILED SCHEDULE OF CONSTRUCTION WHICH COMPLIES WITH THE FOLLOWING SEQUENCE:
- A. INSTALL TEMPORARY EROSION AND SEDIMENTATION CONTROLS IMMEDIATELY PRIOR TO CONSTRUCTION.
- B. SET UP TEMPORARY TRAFFIC CONTROL AREAS. INSTALL UTILITIES, STRUCTURES, AND PERFORM GRADING AS INDICATED ON C.
- CONSTRUCTION PLANS.
- PERFORM STREET RECONSTRUCTION IN AREAS AS NOTED. CONTRACTOR SHALL D. EXCAVATE AND INSTALL SECTIONS OF FLEXIBLE BASE MATERIAL AND HMAC UP TO THE TOP OF PROPOSED GRADE IN ONE DAY.
- REPAIR CURB AND GUTTER, SIDEWALK CURB RAMP AND OTHER FEATURES AS NOTED.
- COMMENCE RESTORATION AND REVEGETATION IMMEDIATELY UPON COMPLETION OF EACH PHASE OF THE PROJECT.

UTILITIES

- AT LEAST 48 HOURS BEFORE BEGINNING ANY CONSTRUCTION IN PUBLIC R.O.W. OR PUBLIC EASEMENT, THE CONTRACTOR SHALL NOTIFY PUBLIC WORKS.
- 2. THE CONTRACTOR SHALL CONTACT THE ROLLINGWOOD AREA "ONE" CALL SYSTEM AT 1--800--344--8377 FOR EXISTING UTILITY LOCATIONS PRIOR TO ANY EXCAVATION IN ADVANCE OF CONSTRUCTION. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES TO BE EXTENDED, TIED TO, OR ALTERED OR SUBJECT TO DAMAGE/INCONVENIENCE BY THE CONSTRUCTION OPERATIONS. THE CITY OF ROLLINGWOOD WATER AND WASTEWATER MAINTENANCE RESPONSIBILITY ENDS AT R.O.W./EASEMENT LINES.
- 3. ALL MATERIALS TESTS, INCLUDING SOIL DENSITY TESTS AND DETAILED SOIL ANALYSES, SHALL BE CONDUCTED BY AN INDEPENDENT LABORATORY AND FUNDED BY THE OWNER IN ACCORDANCE WITH CITY OF AUSTIN STANDARD SPECIFICATION ITEM 18045.04.
- 4. ALL MATERIAL USED ON THIS PROJECT MUST BE LISTED ON THE CITY OF AUSTIN STANDARD PRODUCTS LISTING.
- 5. SEWER SERVICES BROKEN BY CONTRACTOR DURING CONSTRUCTION SHALL BE REPLACED BY CONTRACTOR. REPLACEMENT LENGTH IS DEPENDENT ON EXTENT OF DAMAGE. REPLACEMENT PIPE SHALL BE 4" PVC (OR LARGER) SDR 26 AND ATTACHED TO EXISTING SERVICE WITH FLEXIBLE FERNCO CONNECTORS WITH STAINLESS STEEL CLAMPS OR APPROVED EQUAL, WITH NO SEPARATE PAY.
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION BETWEEN THEMSELF AND OTHER CONTRACTORS AND UTILITIES IN THE VICINITY OF THIS PROJECT. THIS INCLUDES, BUT IS NOT LIMITED TO GAS, WATER, WASTEWATER, ELECTRICAL, TELEPHONE, COMMUNICATIONS NETWORKS, CABLE TELEVISION, PETROLEUM PIPELINES, AND STREET AND POSSIBLE CONFLICT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE CONSTRUCTION INSPECTOR WITHIN TWENTY-- FOUR (24) HOURS.
- 7. CONTRACTOR TO ACQUIRE ALL REQUIRED PERMITS.

PHASE 1: CHANNEL IMPROVEMENTS

CONSTRUCTION NOTES:	

1. WHERE REMOVAL OF BASE AND PAVEMENT IS NECESSARY FOR THE PROJECT, ALI BASE AND PAVEMENT SHALL BE REPLACED IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS, CITY OF AUSTIN, STANDARD SPECIFICATIONS AND STANDARD DETAILS FOR CUT IN PUBLIC RIGHT-OF-WAY. ALL PAVEMENT CUTS SHALL BE SAW-CUT PRIOR TO PLACEMENT OF HMAC.

2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE, PRESERVE AND RESET STREET MARKERS AND TRAFFIC CONTROL SIGNS THAT ARE WITHIN THE CONSTRUCTION LIMITS, AS NECESSARY, TO THE LINE AND HEIGHT AS DESCRIBED IN THE LATEST EDITION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES BEFORE AND DURING ALL CONSTRUCTION PHASES AND UPON THE COMPLETION OF CONSTRUCTION. SIGNS SHALL NOT BE LAID ON THE GROUND. NO PAYMENT WILL BE MADE FOR THIS WORK, BUT IT WILL BE CONSIDERED SUBSIDIARY TO OTHER BID ITEMS.

3. THE CONTRACTOR SHALL SCHEDULE HIS WORK TO MINIMIZE EXPOSURE OF SUBGRADE TO RAIN. IF SUBGRADE IS EXPOSED, CONTRACTOR SHALL UNDERTAKE EXTRA MEASURES TO ACCELERATE DRYING OF THE SUBGRADE INCLUDING PUMPING OF EXCESS WATER AND REWORKING OF THE SUBGRADE AT HIS OWN EXPENSE TO ALLOW THE WORK TO CONTINUE.

4. ALL RECONSTRUCTION PREPARATION WORK AND PAVING SHALL BE COMPLETED IN MANNER SO AS TO PROVIDE A SMOOTH RIDING SURFACE FREE OF BUMPS, DIPS, AND RIPPLES AND A SMOOTH UNIFORM APPEARANCE. THE FINISHED SURFACE SHALL APPROXIMATE THE EXISTING PROFILE.

5. CONCRETE SHALL BE REPLACED NO LATER THAN FOUR (4) WORKING DAYS AFTER EXCAVATION OF THE SITE.

6. EXPANSION JOINTS SHALL BE PROVIDED AT THE TIE-IN OF NEW CURB AND GUTTER T EXISTING CURB AND GUTTER AND AT OTHER LOCATIONS AS SHOWN ON THE PLANS OR AS INSTRUCTED BY THE ENGINEER.

7. CONTRACTOR SHALL TRIM SHRUBS AND TREES TO PROVIDE CONSTRUCTION CLEARANCE. ALL PRUNING PROPOSED TO BE APPROVED IN ADVANCE BY CITY OF ROLLINGWOOD.

8. SODDING FOR EROSION CONTROL SHALL BE APPLIED AS SPECIFIED IN THE PERMANENT EROSION CONTROL NOTES OVER AREAS DISTURBED BY CONSTRUCTION ACTIVITIES AS DESIGNATED BY THE ENGINEER. SODDING SHALL BE WATERED UNTIL A UNIFORM 1 /2' GROWTH IS ESTABLISHED. AT WHICH TIME THE PAYMENT WILL BE MADE, SUBJECT T APPROVAL BY GENERAL PERMIT PROGRAM OFFICE. WATERING IS INCLUDED IN PAYMEN FOR SODDING.

9. CONTRACTOR'S EQUIPMENT SHALL NOT BE LEFT RUNNING WHEN LEFT UNATTENDED OR LEFT IN ONE LOCATION FOR MORE THAN FIVE (5) MINUTES WHILE ATTENDED.

1. PHASE 1 CONSTRUCTION ACTIVITIES SHALL INCLUDE CHANNEL CONSTRUCTION PROGRESSING FROM STATION 1+00 TO 4+50 DOWNSTREAM TO UPSTREAM.

2. INSTALL TEMPORARY FENCING AT 303 NIXON DRIVE TO ENCLOSE BACKYARD PERIMETER AREA PRIOR TO BEGINNING CONSTRUCTION. TEMPORARY FENCING SHALL REMAIN IN PLACE THRU DURATION OF CONSTRUCTION UNTIL NEW FENCING IS IN PLACE AND BACKYARD PERIMETER IS SECURED.

3. COORDINATE AND RELOCATE EXISTING TREE HOUSE AND SHED LOCATED AT 303 NIXON DRIVE. RELOCATION ON PROPERTY TO BE COORDINATED WITH PROPERTY OWNER.

4. PERFORM DEMOLITION AND REMOVAL OF LARGE ROCK, CONCRETE RIPRAP AND OTHER DELETERIOUS MATERIALS FROM THE EXISTING CHANNEL LOCATED ALONG 303 NIXON DRIVE AND REPLACE WITH SELECT FILL COMPACTED TO 95% STANDARD PROCTOR DENSITY.

5. CONSTRUCT CHANNEL IMPROVEMENTS INCLUDING EXCAVATION, GRADING, ACTIVITIES AND ROCK BOULDER PLACEMENT. CONTRACTOR TO PROVIDE MATERIAL SAMPLES PRIOR TO SELECTION AND DELIVERY OF ROCK BOULDERS

6. CONTRACTOR SHALL PROVIDE 48 HOURS NOTICE TO THE CITY PRIOR TO PLACEMENT OF ROCK BOULDERS IN THE CHANNEL.

7. PLACEMENT OF TOP SOIL AND LANDSCAPE PLANTINGS SHALL BE PERFORMED AS PART OF PHASE 3 FINAL WORK.

8. COMPLETE ALL WORK IN THIS PHASE BEFORE STARTING PHASE 2.

REVISION DESCRIPTION								
DATE								
REV. BY								
100% This doc For the P RE THE GEC L IT IS NO CONSTRI PER	SUME PURE EVIEV AUT DFF E .IC. # 03/1 0T TC UCTI MIT	JB ENT POS W UI ELFE ± 13 5/20) BE ON, PUR	IS I E C ND RIT RS 355 23. US BIL PO	REIDFI ERYCS, P 55 SECODI	LE, NT DF .E.			
CITY OF ROLLINGWOOD, TEXAS PUBLIC WORKS DEPARTMENT						GENERAL NOTES		
R@LL	IN	G	N	0)]
1120 S. Ca CityView 2, Austin, Tex P – 512.33 TBPE Firm	K • PUBL pital of Suite as 78 38.170 #6535	F S C PRO 100 746 4 F	R O UECT Kas	LE CL FENG High 512.		5 E ERIN 9	5 — 5 IG 84	_
www.kfriese	.com	N	٩M	E		DA	TE	-
DRAWN B	Y		KT			07	/21	
DESIGNED	BY BY		AF GE			07 07	/21 /21	
KEVIEWED	ВХ				<u> </u>			
		<u>ე</u>			_	0	<u>ר ר</u>)

PHASE 2: PLEASANT DRIVE IMPROVEMENTS

- CONSTRUCT ALL STORM DRAIN AND ROADWAY IMPROVEMENTS WITHIN THE WORK ZONE PER THE PLANS. ADJUST ANY VALVES AND MANHOLES TO MEET PROPOSED GROUND ELEVATIONS FOR UTILITIES WITHIN THE WORK ZONE PER THE UTILITY PLANS.
- 2. CONSTRUCT THE STORM DRAIN BOX IN PHASES TO MAINTAIN ACCESS TO ALL RESIDENTIAL PROPERTIES WITHIN THE WORK ZONE. COORDINATE ANY REQUIRED DRIVEWAY CLOSURES WITH THE RESIDENTS OF THE PROPERTY AT LEAST 48 HOURS IN ADVANCE.
- 3. CONSTRUCTION OF STORM DRAIN BOX SHALL PROGRESS FROM DOWNSTREAM TO UPSTREAM. IT IS WITH THE INTENTION OF AIDING WITH CONSTRUCTABILITY AND ACCESS THAT CAST-IN-PLACE BOX CULVERT IS PROPOSED FROM STATIONS 10+32 TO 11+23. ALTERNATIVELY, THE CONTRACTOR MAY SUBMIT A PLAN FOR THE USE OF A PRECAST BOX FOR THIS SEGMENT, SUBJECT TO APPROVAL BY THE ENGINEER. NO ADDITIONAL WORK DAYS WILL BE AWARDED FOR THIS SUBSTITUTION.
- 4. DUE TO THE OVERALL SIZE OF THE STORM DRAIN WITHIN PLEASANT DRIVE. SAFETY IS OF THE UTMOST IMPORTANCE. MAINTAIN BARRIERS AND SAFETY FENCING AROUND ANY OPEN EXCAVATIONS. MAKE SURE ALL TRENCHES ARE FILLED IN AT THE END OF THE WORK DAY.
- 5. MAINTAIN 3:1 MAX SIDE SLOPES AT THE END OF EACH WORK DAY FOR PAVEMENT DROP-OFFS GREATER THAN 2'.

PHASE 3: FINAL WORK

- 1. CONSTRUCT FINAL 2" LIFT OF THE TYPE D HOT MIX ASPHALTIC PAVEMENT SURFACE LAYER USING TXDOT TRAFFIC CONTROL DETAILS FOR SURFACING OPERATIONS STANDARD (7-1) AND TXDOT TCP MOBILE OPERATIONS STANDARD (3-1).
- 2. PERFORM ANY REMAINING FINAL GRADING AND PLACE TOPSOIL AND SEEDING AND/OR SODDING, AND LANDSCAPE PLANTINGS.
- 3. REMOVE ALL TEMPORARY SW3P DEVICES AND TREE PROTECTION, AS DIRECTED.
- 4. PERFORM FINAL CLEANUP.

The following/listed "construction notes" are intended to be advisory in nature only and do not constitute an approval or conditional approval by the Executive Director (ED), nor do they constitute a comprehensive listing of rules or conditions to be followed during construction. Further actions may be required to achieve compliance with TCEQ regulations found in Title 30, Texas Administrative Code (TAC), Chapters 213 and 217, as well as local ordinances and regulations providing for the protection of water quality. Additionally, nothing contained in the following/listed "construction notes" restricts the powers of the ED, the commission or any other governmental entity to prevent, correct, or curtail activities that result or may result in pollution of the Edwards Aquifer or hydrologically connected surface waters. The holder of any Edwards Aquifer Protection Plan containing "construction notes" is still responsible for compliance with Title 30, TAC, Chapters 213 or any other applicable TCEQ regulation, as well as all conditions of an Edwards Aquifer Protection Plan through all phases of plan implementation. Failure to comply with any condition of the ED's approval, whether or not in contradiction of any "construction notes," is a violation of TCEQ regulations and any violation is subject to administrative rules, orders, and penalties as provided under Title 30, TAC § 213.10 (relating to Enforcement). Such violations may also be subject to civil penalties and injunction. The following/listed "construction notes" in no way represent an approved exception by the ED to any part of Title 30 TAC, Chapters 213 and 217, or any other TCEQ applicable regulation

- 2. approval letter.
- impacts to water quality.
- 4.

5.

- permanently stabilized.
- etc.

TCEQ-0592 (Rev. July 15, 2015)

8.	Litter, prever	construc nted from
9.	All spo proper Recha plan fo other s	bils (exca E&S cor rge Zone or the pla site.
10.	If porti longer to the are no stabiliz	ons of the than 14 o 14 th day o t required zation me
11.	The fo	llowing re - the dat - the dat of the s - the dat
12.	The h regiona of the t	older of al office i following:
	A.	any phys including diversior
	В.	any cha originally to preve
	C.	any dev pollution

Austin Regional Office	San Antonio Regional Office
12100 Park 35 Circle, Building A	14250 Judson Road
Austin, Texas 78753-1808	San Antonio, Texas 78233-4480
Phone (512) 339-2929	Phone (210) 490-3096
Fax (512) 339-3795	Fax (210) 545-4329

THESE GENERAL CONSTRUCTION NOTES MUST BE INCLUDED ON THE CONSTRUCTION PLANS PROVIDED TO THE CONTRACTOR AND ALL SUBCONTRACTORS.

Texas Commission on Environmental Quality Water Pollution Abatement Plan **General Construction Notes**

Edwards Aquifer Protection Program Construction Notes – Legal Disclaimer

1. A written notice of construction must be submitted to the TCEQ regional office at least 48 hours prior to the start of any regulated activities. This notice must include: - the name of the approved project;

- the activity start date; and

- the contact information of the prime contractor.

All contractors conducting regulated activities associated with this project must be provided with complete copies of the approved Water Pollution Abatement Plan (WPAP) and the TCEQ letter indicating the specific conditions of its approval. During the course of these regulated activities, the contractors are required to keep on-site copies of the approved plan and

3. If any sensitive feature(s) (caves, solution cavity, sink hole, etc.) is discovered during construction, all regulated activities near the sensitive feature must be suspended immediately. The appropriate TCEQ regional office must be immediately notified of any sensitive features encountered during construction. Construction activities may not be resumed until the TCEQ has reviewed and approved the appropriate protective measures in order to protect any sensitive feature and the Edwards Aquifer from potentially adverse

No temporary or permanent hazardous substance storage tank shall be installed within 150 feet of a water supply source, distribution system, well, or sensitive feature.

Prior to beginning any construction activity, all temporary erosion and sedimentation (E&S) control measures must be properly installed and maintained in accordance with the approved plans and manufacturers specifications. If inspections indicate a control has been used inappropriately, or incorrectly, the applicant must replace or modify the control for site situations. These controls must remain in place until the disturbed areas have been

Any sediment that escapes the construction site must be collected and properly disposed of before the next rain event to ensure it is not washed into surface streams, sensitive features,

7. Sediment must be removed from the sediment traps or sedimentation basins not later than Page 1 of 2

when it occupies 50% of the basin's design capacity.

ction debris, and construction chemicals exposed to stormwater shall be being discharged offsite.

avated material) generated from the project site must be stored on-site with ntrols. For storage or disposal of spoils at another site on the Edwards Aquifer , the owner of the site must receive approval of a water pollution abatement acement of fill material or mass grading prior to the placement of spoils at the

he site will have a temporary or permanent cease in construction activity lasting days, soil stabilization in those areas shall be initiated as soon as possible prior of inactivity. If activity will resume prior to the 21st day, stabilization measures ed. If drought conditions or inclement weather prevent action by the 14th day, easures shall be initiated as soon as possible.

ecords shall be maintained and made available to the TCEQ upon request:

tes when major grading activities occur; tes when construction activities temporarily or permanently cease on a portion

site: and tes when stabilization measures are initiated.

any approved Edward Aquifer protection plan must notify the appropriate in writing and obtain approval from the executive director prior to initiating any

vsical or operational modification of any water pollution abatement structure(s), g but not limited to ponds, dams, berms, sewage treatment plants, and nary structures;

ange in the nature or character of the regulated activity from that which was ly approved or a change which would significantly impact the ability of the plan ent pollution of the Edwards Aquifer;

velopment of land previously identified as undeveloped in the original water n abatement plan.

$\begin{array}{cccc} O & \exists \exists V \\ O & 0 \end{array} BY \\ \begin{array}{cccc} DATE \\ NO. \end{array} \\ \begin{array}{c} REVISION DESCRIPTION \\ DATE \end{array} \\ \begin{array}{c} REVISION DESCRIPTION \\ \end{array}$		DC HE F TH GE S N F E		MR 1000		B UN OFFE 133 220 BE N, JR	IS I SI SI SI SI SI SI SI SI SI SI SI SI SI						
CITY OF ROLLINGWOOD, TEXAS	PUBLIC WORKS	DEPARTMENT				PROPOSED DRAINAGE IMPROVEMENTS				CONSTRUCTION NOTES			
F	2	۶L	LI	N		51	N	0)]	
K+FRIESE + ASSOCIATES PUBLIC PROJECT ENGINEERING 1120 S. Capital of Texas Highway CityView 2, Suite 100 Austin, Texas 78746 P - 512.338.1704 F - 512.338.1784 TBPE Firm #6535													
	m		NA	M	E		DA	TE	:				
SU Di			ł	<t< td=""><td></td><td></td><td>07</td><td>/21</td><td></td><td> </td></t<>			07	/21					
DESIGNED BY						AF				07	/21		
CH RE\	ECH) B') B	Y Y		(GE			07	/21	_	
					1				1				
C	60	03)		4	3		O	F	3	32		
	-	-									-		•

							SUMMARY OF ITI	EMS						
				1105 4	1226.4	2155 4	2405 P	240C D	400	4205 4	432	462	464	464
				1105-A	1325-A	3155-A	3405-В	3405-B	2009	4305-A	2005	2003	2003	2005
STORM SEWER PLAN AND PROFILE SHEET	LOCATION	TCEQ PERMIT APPLICATION FEE	UTILITY ADJUSTMENT	STREET EXCAVATION	EMBANKMENT	SURFACE MILLING	HOT MIX ASPHALTIC CONCRETE PAVEMENT, 2 inches, Type D	Hot Mix Asphaltic Concrete Pavement, 12 inches, Type C	CUT & RESTORING PAV (CONC)	P.C. CONCRETE CURB AND GUTTER (EXCAVATION)	RIPRAP (STONE TY R)(DRY)(6 IN)	CONC BOX CULV (4 FT X 2 FT)	RC PIPE (CL III)(18 IN)	RC PIPE (CL III)(24 IN)
		LF	EA	СҮ	СҮ	SY	SY	SY	SY	LF	СҮ	LF	LF	LF
SHEET 1 OF 3	STA 10+00 TO STA 13+50	393	5	437	5000	656	656	328	17	246			57	277
SHEET 2 OF 3	STA 13+50 TO STA 16+20	272		53	600	80	80	40	17	10				
SHEET 3 OF 3	STA 16+20 TO STA 19+00	198	9	184		276	276	138	17	80	3	126	5	
	PROJECT TOTALS:	863	14	674	5600	1012	1012	506	51	336	3	126	62	277

							SUMMA	RY OF ITEMS							
		464	464	465	465	465	465	467	496						
		2007	2009	2092	6020	6028	6055	2030	2007	5085-1105	509S-1	610S-1	6415	6425	6485-1
STORM SEWER PLAN AND PROFILE SHEET	LOCATION	RC PIPE (CL III)(30 IN)	RC PIPE (CL III)(36 IN)	MANH (COMPL)(TY 1)	INLET (COMPL)(PCO)(4FT)(BOTH)	INLET (COMPL)(PCO)(6F T)(BOTH)	INLET (COMPL)(PSL)(SL)(4 FTX4FT)	SET (TY I)(S= 4 FT)(HW= 3 FT)(3:1)	REMOV STR (PIPE)	Inlet, Standard	Trench Excavation Safety Protective Systems (all depths)	TREE PROTECTION FENCE LOCATIONS	STABILIZED CONSTRUCTION ENTRANCE	SILT FENCE EROSION CONTROL	MULCH SOCK
		LF	LF	EA	EA	EA	EA	EA			LF	EA	EA	LF	LF
SHEET 1 OF 3	STA 10+00 TO STA 13+50	59		2	1	1				2	393	5		308	60
SHEET 2 OF 3	STA 13+50 TO STA 16+20	126	146	2			1		58		272	5	1	507	56
SHEET 3 OF 3	STA 16+20 TO STA 19+00		67	1		2		1		1	198	4	1	117	50
	PROJECT TOTALS:	185	213	5	1	3	1	1	58	3	863	14	2	932	166

CITYON BALANCE AS A COLORIDATION OF A COLOR	In the decrementation of the second s	SUME PURF EVIEN AUT DFF E I.C. # 03/1 0T TC JCTI MIT I	JBN JBN SPOSE WUNI HORI HORI 5/202 D BE U ON, B PURP	S REL OF II DER ITY O RS, P. 555 3. JSED BIDDII OSE	FOF NG C S.					
Image: Constraint of the second se	CITY OF ROLLINGWOOD, TEXAS PUBLIC WORKS DEPARTMENT	CITY OF ROLLINGWOOD	PROPOSED DRAINAGE IMPROVEMENTS		ESTIMATED OLIANTITIES					
K-FRIESE + ASSOCIATES PUBLIC PROJECT ENGINEERING 1120 S. Capital of Texas Highway Citylew 2, Suite 100 Austin, Texas 78746 P - 512.338.1704 F - 512.338.1784 TBPE Firm #6535 www.kfriese.com NOTES NAME DATE SURVEY BY DRAWN BY KT 07/21 DESIGNED BY AF 07/21 CHECKED BY GE 07/21 REVIEWED BY GE 07/21 REVIEWED BY D	R@LL	IN	GV	VO	O)				
NOTESNAMEDATESURVEY BYDRAWN BYKT07/21DESIGNED BYAF07/21CHECKED BYGE07/21REVIEWED BY	1120 S. Ca CityView 2, Austin, Tex P – 512.33 TBPE Firm www.kfriese.	K+FRIESE HASSOCIATES PUBLIC PROJECT ENGINEERING 1120 S. Capital of Texas Highway CityView 2, Suite 100 Austin, Texas 78746 P - 512.338.1704 F - 512.338.1784 TBPE Firm #6535 www.bfriges.com								
DRAWN BY KT 07/21 DESIGNED BY AF 07/21 CHECKED BY GE 07/21 REVIEWED BY .		×	NAI	ME	DA	TE	-			
DESIGNED BY AF 07/21 CHECKED BY GE 07/21 REVIEWED BY OPE 07/21 OPE 07/21 OPE 07/21 OPE 07/21 OPE 07/21	DRAWN B	Y	K	T	07	/21				
	DESIGNED CHECKED	BY BY	A G	F E	07 07	/21 /21				
C004 4 OF 32	REVIEWED	BY								
G_{004} 4 of 32										
G004 4 0 32	G004		4	OF	- 3	32				







LEGEND							
ALIGNMENT	_						
EXISTING ROW							
PROPERTY LINE							
EXISTING EASEMENT							
PROPOSED EASEMENT							
BUILDING SETBACK							
SURVEY CONTROL POIN	лт 🔺 ті						

POINT TABLE										
POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION						
1001	10073990.00	3101415.73	648.51	CP;MAG NAIL						
1002	10073902.18	3101762.36	616.59	CP;MAG NAIL						
1004	10074184.00	3101788.92	602.01	CP;MAG NAIL						
1005	10074409.85	3101960.64	585.32	CP;MAG NAIL						
1006	10074234.42	3102179.19	590.73	CP;MAG NAIL						
1007	10073942.31	3102133.56	610.09	CP;MAG NAIL						
1008	10073823.39	3101989.39	615.89	CP;MAG NAIL						

		SE)L-A	
NO.	LENGTH	DIRECTION	START PT.	END PT.
L1	2.09	S03° 35' 54"E	STA. 10+00.00 N. 10073946.74 E. 3101697.91	STA. 10+02.09 N. 10073944.66 E. 3101698.04
L2	25.42	S34° 40' 03"E	STA. 10+02.09 N. 10073944.66 E. 3101698.04	STA. 10+27.51 N. 10073923.75 E. 3101712.50
L3	43.92	S79° 55' 49"E	STA. 10+27.51 N. 10073923.75 E. 3101712.50	STA. 10+71.43 N. 10073916.08 E. 3101755.74
L4	167.52	N37° 27' 20"E	STA. 10+71.43 N. 10073916.08 E. 3101755.74	STA. 12+38.95 N. 10074049.06 E. 3101857.62
L5	58.93	N00° 42' 48"W	STA. 12+38.95 N. 10074049.06 E. 3101857.62	STA. 12+97.88 N. 10074107.98 E. 3101856.88
L6	78.68	N45° 27' 46"W	STA. 12+97.88 N. 10074107.98 E. 3101856.88	STA. 13+76.55 N. 10074163.16 E. 3101800.80
L7	30.06	N09° 56' 18"W	STA. 13+76.55 N. 10074163.16 E. 3101800.80	STA. 14+06.61 N. 10074192.77 E. 3101795.62
L8	89.12	N39° 17' 57"E	STA. 14+06.61 N. 10074192.77 E. 3101795.62	STA. 14+95.73 N. 10074261.73 E. 3101852.06
L9	161.89	N40° 19' 02"E	STA. 14+95.73 N. 10074261.73 E. 3101852.06	STA. 16+57.62 N. 10074385.17 E. 3101956.81
_10	27.21	S49° 01' 49"E	STA. 16+57.62 N. 10074385.17 E. 3101956.81	STA. 16+84.83 N. 10074367.33 E. 3101977.36
_11	31.02	N86° 12' 21"E	STA. 16+84.83 N. 10074367.33 E. 3101977.36	STA. 17+15.85 N. 10074369.38 E. 3102008.31
_12	132.58	N53° 07' 56"E	STA. 17+15.85 N. 10074369.38 E. 3102008.31	STA. 18+48.43 N. 10074448.93 E. 3102114.37
_13	7.11	N72° 04' 46"E	STA. 18+48.43 N. 10074448.93 E. 3102114.37	STA. 18+55.54 N. 10074451.11 E. 3102121.14

REVISION DESCRIPTION									
DATE									
× B ∀ · · ·									
100% This doc For the F RE THE GEC L IT IS NO CONSTRI PER	SUME PURE EVIEV AUT OFF E .IC. # 03/1 T TC JCTI MIT I	JB ENT POS W UI THOF ELFE ± 13: 5/20) BE ON, PUR	IS I E C NDI RIT ERS 355 23. US BIL PO	REI DFI ERYC 5, P 55	LE, NT DF .E. DF .S.			, 	
CITY OF ROLLINGWOOD, TEXAS PUBLIC WORKS DEPARTMENT	CITY OF ROLLINGWOOD				HORIZONTAL CONTROL		LAYOUT SHEET		
R@LL	IN	G١	N	0)		
TEXAS K+FRIESE + ASSOCIATES PUBLIC PROJECT ENGINEERING 1120 S. Capital of Texas Highway CityView 2, Suite 100 Austin, Texas 78746 P - 512.338.1704 F - 512.338.1784 TBPE Firm #6535									
NOTES		N/	AMI	E		DA	TE	-	
DRAWN B	рт Ү		KT			07	/21		
DESIGNED CHECKED	BY BY	(AF GE			07 07	/21 /21		
REVIEWED	BY		_				_ 1		
0 HORIZON	4 TAL S	IO SCA	LE	IN	FE	ET	30		
G005	Т	5		OI			32	•	



- 1. CONTRACTOR TO PROVIDE TREE PROTECTION FOR ANY TREE WITHIN 10' OF LIMITS OF CONSTRUCTION.
- 2. ALL PERVIOUS AREAS DISTURBED SHALL BE RESTORED AND REVEGETATED AS REQUIRED AND TO THE SATISFACTION OF THE CITY FOLLOWING CONSTRUCTION.
- 3. CONTRACTOR SHALL ONLY CLEAR BRUSH AND SMALL TREES NECESSARY TO PERFORM THE WORK SHOWN.
- 4. CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF EXISTING WATERLINE, GAS LINE AND SEWER LINE. UTILITY CROSSINGS SHALL PROVIDE A MINIMUM OF 12 INCHES OF ALLOWABLE CLEARANCE BETWEEN ANY PROPOSED STRUCTURES. NOTIFY THE ENGINEER IMMEDIATELY IF THIS REQUIREMENT IS NOT MET FOR AUTHORIZATION PRIOR TO PROCEEDING.

EXISTING FEATURES

DEMOLISH CURB & GUTTER

CLEAR & GRUB VEGETATION

- 1. CONTRACTOR TO PROVIDE TREE PROTECTION FOR ANY TREE WITHIN 10' OF LIMITS OF CONSTRUCTION.
- 2. ALL PERVIOUS AREAS DISTURBED SHALL BE RESTORED AND REVEGETATED AS REQUIRED AND TO THE SATISFACTION OF THE CITY FOLLOWING CONSTRUCTION.
- 3. CONTRACTOR SHALL ONLY CLEAR BRUSH AND SMALL TREES NECESSARY TO PERFORM THE WORK SHOWN.

EXISTING FEATURES

INE WAY LINE WAY LINE TY LINE SETBACK LINE SETBACK LINE CURB ASPHALT CONCRETE CONCRETE FLOW LINE GE NCE ONTOURS ONTOURS ONTOURS REAK ARKING / DRIVEWAY OP OTTOM ATER LINE
WAY LINE Y LINE Y LINE SETBACK LINE SETBACK LINE CURB ASPHALT CONCRETE FLOW LINE GE SNCE ONTOURS ONTOURS ONTOURS REAK ARKING / DRIVEWAY OP OTTOM ATER LINE
TY LINE IT LINE SETBACK LINE CURB ASPHALT CONCRETE TE PAVEMENT E FLOW LINE OGE NCE ONTOURS ONTOURS REAK ARKING / DRIVEWAY OP OTTOM ATER LINE
AT LINE SETBACK LINE CURB ASPHALT CONCRETE CONCRETE PAVEMENT E FLOW LINE GE NCE ONTOURS ONTOURS ONTOURS REAK ARKING / DRIVEWAY OP OTTOM ATER LINE
SETBACK LINE CURB ASPHALT CONCRETE CONCRETE FLOW LINE GE NCE ONTOURS ONTOURS ONTOURS REAK ARKING / DRIVEWAY OP OTTOM ATER LINE
CURB ASPHALT CONCRETE CONCRETE FLOW LINE GE NCE ONTOURS ONTOURS NTOURS REAK ARKING / DRIVEWAY OP OTTOM ATER LINE
ASPHALT CONCRETE TE PAVEMENT E FLOW LINE GE NCE ONTOURS ONTOURS REAK ARKING / DRIVEWAY OP OTTOM ATER LINE
CONCRETE TE PAVEMENT E FLOW LINE GE NCE ONTOURS ONTOURS REAK ARKING / DRIVEWAY OP OTTOM ATER LINE
TE PAVEMENT E FLOW LINE GE NCE ONTOURS ONTOURS REAK ARKING / DRIVEWAY OP OTTOM ATER LINE
TE PAVEMENT E FLOW LINE OGE INCE ONTOURS ONTOURS REAK ARKING / DRIVEWAY OP OTTOM ATER LINE
E FLOW LINE OGE ENCE ONTOURS ONTOURS REAK ARKING / DRIVEWAY OP OTTOM ATER LINE
DGE ENCE ONTOURS DNTOURS REAK ARKING / DRIVEWAY DP DTTOM ATER LINE
ENCE ONTOURS ONTOURS REAK ARKING / DRIVEWAY OP OTTOM ATER LINE
ONTOURS ONTOURS REAK ARKING / DRIVEWAY OP OTTOM ATER LINE
ONTOURS REAK ARKING / DRIVEWAY OP OTTOM ATER LINE
REAK ARKING / DRIVEWAY OP OTTOM ATER LINE
REAK ARKING / DRIVEWAY OP OTTOM ATER LINE
ARKING / DRIVEWAY OP OTTOM ATER LINE
OP OTTOM ATER LINE
LL
RCP PIPE
GAS LINE
OVERHEAD
UNDERGROUND
Ξ
IETER
ALVE
ER VALVE
ATER MANHOLE
JT
RANT
OLE
C JUNCTION BOX
iN
11

LIC. # 133555 03/15/2023. IT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES. S Z Ш Σ IGW00D IMPROVEI TEXAS AND PLAN 00D, RKS DEMOLITION / PROTECTION F D R O CITY CITY \cap Ο Ñ n R@LLINGWOOD — TEXAS — K·FRIESE + ASSOCIATES PUBLIC PROJECT ENGINEERING 1120 S. Capital of Texas Highway CityView 2, Suite 100 Austin, Texas 78746 P - 512.338.1704 F - 512.338.1784 TBPE Firm #6535 www.kfriese.com NAME DATE NOTES SURVEY BY DRAWN BY 07/21 ΚT DESIGNED BY AF 07/21 CHECKED BY GE 07/21 **REVIEWED BY** 20 40 HORIZONTAL SCALE IN FEET DP102 7 OF 32

100% SUBMITTAL

THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF INTERIM

REVIEW UNDER

THE AUTHORITY OF GEOFF ELFERS, P.E.

TERRAIN.

1. THE PEAK FLOWS WERE COMPUTED USING THE RATIONAL METHOD AS DESCRIBED IN SECTION 2.4.0 OF THE DRAINAGE CRITERIA MANUAL (DCM) OF AUSTIN, TX.

2. THE RUNOFF COEFFICIENT WAS DEVELOPED BASED FROM TABLE 2-3 OF THE DCM. PERVIOUS LAND COVER WAS ASSUMED TO BE UNDEVELOPED LAND OVER STEEP

2. RAINFALL INTENSITIES WERE DETERMINED FROM THE IDF COEFFICIENTS SHOWN IN TABLE 2-2A OF THE DCM.

REVISION DESCRIPTIO										
· BY DATE										
100% тніз рос	SUME	JB JB	IV IS F			l / AS		_		
FOR THE I RI THE GEC I IT IS NC CONSTR PER	PURF EVIEV AUT DFF E IC. # 03/1 DT TC UCTI	POSI W UI HOF LFE 13(5/20) BE ON, PUR	E O NDE RIT` RS 355 23. US BIE PO	FI FR YC , P 5 ED SE	DF DF DF NC S.	OF GF	RIM R DR			
CITY OF ROLLINGWOOD, TEXAS PUBLIC WORKS DEPARTMENT	CITY OF ROLLINGWOOD						AREA MAP			
-	IN	GI	N	0) s –]		
R@LI	TEXAS K+FRIESE + ASSOCIATES PUBLIC PROJECT ENGINEERING 1120 S. Capital of Texas Highway CityView 2, Suite 100 Austin, Texas 78746 P - 512.338.1704 F - 512.338.1784 TBPE Firm #6535									
RCLL 1120 S. Co CityView 2, Austin, Tex P – 512.3. TBPE Firm	N PUBLI pital c Suite cas 78 38.170 #6535	F SS of Tex 100 746 4 F	KI OC JECT (as I	ENG High	A I SINE 1wa 338	- 3.17	84			
RELL 1120 S. Co CityView 2, Austin, Tex P – 512.3. TBPE Firm www.kfriese NOTES	+ A PUBL pital c Suite as 78 38.170 #6535 .com	F SS 100 746 4 F		ENG High	338	3.17 [,] DA	84 ATE			
RELL 1120 S. Co CityView 2, Austin, Teev P – 512.3. TBPE Firm www.kfriese NOTES SURVEY E DRAWN E	+ A PUBL ipital c Suite Suite 38.170 #6535 com 3Y	F SS 100 746 4 F N/		ENG High		07	84 TE			
RELL 1120 S. Co CityView 2, Austin, Tex P – 512.3. TBPE Firm www.kfriese NOTES SURVEY E DRAWN E DESIGNED CHECKED	+ A PUBL ipital c Suite as 78 38.170 #6535 a.com 3Y BY BY	F SS 100 746 4 F N/		ENG High		07 07	84 ATE //21 //21			
REVIEWED	+ A PUBL suite Suite Sas 78 38.170 #6535 .com 3Y BY BY BY BY	F SS 100 746 4 F 100 746 4 F (ENG High		07 07	84 ATE //21 //21			
REVIEWED	+ A PUBL ipital c Suite as 78 38.170 #6535 acom BY BY BY BY BY BY BY	F SS 100 746 4 F 100 746 4 F 100 746 5 100 7 100 100		ENG High 512.		07 07 07 07	84 TE //21 //21 //21 20			
REVIEWED	+ A PUBL ipital c Suite as 78 38.170 #6535 acom BY BY BY BY BY BY BY	F SS 100 746 4 F 100 746 5 100 7 100 100		ENG High		07 07 07	84 7/21 7/21 7/21 7/21 20			

LEGEND

FLOW ARROW

FLOWPATH

			25-Y	ear Inlet Analys	is		
Labal	Elevation	Elevation		Flow	Conserved / Tem Middah (fa)		Denth (Cutter) (in)
Label	(Ground) (ft)	(Invert) (ft)	Length (ft)	(Captured)	Spread / Top Width (It)	iniet Location	Depth (Gutter) (in)
SDL-A 10+00	616.51	611.12	15	10.02	9.7	In Sag	10.3
SDL-A 14+92.76	589.91	580.74	PAZD-5x5	2.19	N/A	In Sag	(N/A)
SDL-A 15+52.96	588.48	577.94	PAZD-5x5	6.29	N/A	In Sag	(N/A)
SDL-B 10+24.17	608.74	601.93	10	3.07	3.9	On Grade	2.7
SDL-C 10+15.68	600.66	595.79	10	7.02	7.9	In Sag	10.3
SDL-D 10+44.10	585.04	578.47	20	13.7	18.7	In Sag	10.2

					25-YEAR STOP	RM SEWER CALCULATIONS				
									Hydraulic Grade Line	Hydraulic Grade Line
Label	Start Node	Diameter (in)	Manning's n	Flow (cfs)	Velocity (ft/s)	Capacity (Full Flow) (cfs)	Rise (ft)	Span (ft)	(Begin) (ft)	(End) (ft)
SDL-A 1	SDL-A 10+00	24	0.013	10.02	4.8	13.85			612.64	612.6
SDL-A 2	SDL-A 10+27.51	24	0.013	9.99	5.89	18.05			612.47	612.44
SDL-A 3	SDL-A 10+71.43	24	0.013	9.94	13.31	55.17			611.88	605.21
SDL-A 4	SDL-A 12+10.97	36	0.013	35.28	13.52	106.41			603.71	603.76
SDL-A 5	SDL-A 12+38.95	36	0.013	35.26	19.56	177.34			603.15	599.6
SDL-A 6	SDL-A 12+97.88	36	0.013	35.23	19.17	172.57			599.12	596.45
SDL-A 7	SDL-A 13+57.11	36	0.013	40.75	20.6	180.13			595.32	593.36
SDL-A 8	SDL-A 13+76.56	36	0.013	42.88	18.04	146.99			588.29	587.47
SDL-A 9	SDL-A 13+97.30	36	0.013	42.86	17.78	144.08			586.93	584.06
SDL-A 10	SDL-A 14+92.76	36	0.013	44.51	18.42	149.13			582.91	581.5
SDL-A 10	SDL-A 15+52.96	36	0.013	49.39	18.84	148.04			580.23	577.34
SDL-A 11	SDL-A 16+54.65	36	0.013	49.29	14.2	100.96			575.5	575.52
SDL-A 12	SDL-A 16+81.86	36	0.013	49.26	14.35	102.4			574.95	574.81
SDL-A 13	SDL-A 17+12.89		0.013	59.89	16.41	136.86	2	4	570.91	566.01
SDL-A 14	SDL-A 18+45.46		0.013	59.69	16.2	134.49	2	4	565.91	565.22
EX. 15" RCP	H-1	18	0.013	2.72	8.4	21.74			598.53	596.83
SDL-B 1	SDL-B 10+24.17	36	0.013	26.84	3.8	59.26			605.2	605.17
SDL-B 2	SDL-B 10+36.85		0.013	23.78	3.96	75.08	2	3	605.36	605.33
SDL-C	SDL-C 10+15.68	18	0.013	7.02	12.13	24.95			596.82	596.54
SDL-D	SDL-D 10+44.10	24	0.013	13.7	14.32	53.85			581.37	578.77

		-	100-Year Inlet Analysis			
				Spread / Top		Depth (Gutter)
Label	Elevation (Ground) (ft)	Length (ft)	Flow (Captured) (cfs)	Width (ft)	Inlet Location	(in)
SDL-A 10+00	616.51	15	14.65	12.5	In Sag	11.5
SDL-A 14+92.76	589.91	PAZD-5x5	3.27	N/A	In Sag	(N/A)
SDL-A 15+52.96	588.48	PAZD-5x5	9.29	N/A	In Sag	(N/A)
SDL-B 10+24.17	608.74	10	5.98	5.6	On Grade	3.8
SDL-C 10+15.68	600.66	10	12.58	11.6	In Sag	12.5
SDL-D 10+44.10	585.04	20	20.27	24.3	In Sag	11.5

					100-YEAR STO	RM SEWER CALCULATION	S			
									Hydraulic Grade Line	Hydraulic Grade Line
Label	Start Node	Diameter (in)	Manning's n	Flow (cfs)	Velocity (ft/s)	Capacity (Full Flow) (cfs)	Rise (ft)	Span (ft)	(In) (ft)	(Out) (ft)
SDL-A 1	SDL-A 10+00	24	0.013	14.65	4.66	13.85			613.21	613.11
SDL-A 2	SDL-A 10+27.51	24	0.013	14.6	6.39	18.95			612.99	612.81
SDL-A 3	SDL-A 10+71.43	24	0.013	14.53	14.81	55.15			612.12	605.71
SDL-A 4	SDL-A 12+10.97	36	0.013	44.11	14.35	106.41			603.94	604.07
SDL-A 5	SDL-A 12+38.95	36	0.013	44.09	20.82	175.83			603.38	599.90
SDL-A 6	SDL-A 12+97.88	36	0.013	44.04	20.41	175.8			599.35	597.08
SDL-A 7	SDL-A 13+57.11	36	0.013	53.91	22.27	176.23			595.63	593.61
SDL-A 8	SDL-A 13+76.56	36	0.013	57.14	19.49	146.25			588.61	587.83
SDL-A 9	SDL-A 13+97.30	36	0.013	57.11	19.2	147.04			587.25	584.58
SDL-A 10	SDL-A 14+92.76	36	0.013	59.57	19.92	148.86			583.23	582.07
SDL-A 10	SDL-A 15+52.96	36	0.013	66.76	20.4	147.51			580.55	578.19
SDL-A 11	SDL-A 16+54.65	36	0.013	66.62	9.43	101.11			576.40	576.16
SDL-A 12	SDL-A 16+81.86	36	0.013	66.55	9.41	101.01			575.89	575.61
SDL-A 13	SDL-A 17+12.89		0.013	82.21	18.09	136.79	2	4	571.00	566.02
SDL-A 14	SDL-A 18+45.46		0.013	81.93	17.85	137.61	2	4	566.00	565.53
SDL-B 1	SDL-B 10+24.17	36	0.013	32.23	32.23	4.56			605.76	605.72
SDL-B 2	SDL-B 10+36.85		0.013	26.27	26.27	4.38	2	3	606.02	605.98
SDL-C	SDL-C 10+15.68	18	0.013	12.58	12.58	14.15			597.13	596.97
SDL-D	SDL-D 10+44.10	24	0.013	20.27	20.27	15.93			581.66	578.98
EX. 15" RCP	H-1	18	0.013	4.12	4.12	9.46			598.68	596.92

utter)	
)	
)	

REVISION DESCRIPTION											
3Y DATE											
REV NO.											
100% THIS DOC FOR THE F RE THE GEC L IT IS NO CONSTRU PER	SUME PURF EVIEV AUT PFF E IC. # 03/1 T TC JCTI MIT I	JB ENT POSI W UI HOF ELFE 13:3 5/20) BE ON, PUR	ND RIT SRS 23. US BIL PO	REI DFI ERYC 55 SED DDI SE	LE NT DF .E. D F NC						
CITY OF ROLLINGWOOD, TEXAS PUBLIC WORKS DEPARTMENT					STORM SEWER		HYDRAULIC CALCULATIONS				
R@LL	.IN	G	N	0	TE:) 5 –]			
1120 S. Ca CityView 2, Austin, Tex	+ A PUBL pital a Suite as 78	S S IC PRO of Te> 100 746			A T SINE		S IG				
P – 512.33 TBPE Firm www.kfriese NOTES	i8.170 #6535 com	4 F 5 N/	- : AM	512. E	338	5.178 DA	84 \TE				
SURVEY B	SURVEY BY DRAWN BY					07	/21				
DESIGNED CHECKED	DESIGNED BY CHECKED BY					07 07	/21 /21				
REVIEWED	CHECKED BY GE 07/21 REVIEWED BY										
CA01		9		O	=	3	32				

	PICKWICK	THATIONS	Image: black start		SUBN CUMENT IS PURPOSE C EVIEW UND AUTHORIT OFF ELFERS IC. # 13355 03/15/2023 OT TO BE US UCTION, BII MIT PURPC	AITTAL RELEASED OF INTERIM ER Y OF S, P.E. 55 SED FOR DDING OR DSES.
RM - PRECAST	ROUND MANHOLE		TY - TYPE			
CI - CUI	RB INLET	SDI	STORM DRAIN LINE			
PSL - PRECA	AST SLAB LID		PROP - PROPOSED			
		D	CENTERLINE RIGHT OF WAY LINE PROPERTY LINE EASEMENT LINE BUILDING SETBACK LINE BACK OF CURB EDGE OF ASPHALT EDGE OF CONCRETE GUTTER CONCRETE PAVEMENT DRAINAGE FLOW LINE WOOD FENCE PAVED PARKING / DRIVEWAY WASTEWATER LINE WATER LINE ROCK WALL EXISTING RCP PIPE	CITY OF ROLLINGWOOD, TEXAS PUBLIC WORKS DEPARTMENT	CITY OF ROLLINGWOOD PROPOSED DRAINAGE IMPROVEMENT	STORM SEWER PLAN & PROFILE STA 10+00.00-13+50.00
	E	он ————	ELECTRIC OVERHEAD	R@LI	INGW	OOD
		ug	ELECTRIC UNDERGROUND GUY WIRE WATER METER WATER VALVE	1120 S. Ca CityView 2, Austin, Tex P – 512.33 TBPE Firm	K+FR + ASSO PUBLIC PROJECT pital of Texas Suite 100 tas 78746 38.1704 F - #6535	TEXAS IESE CIATES r ENGINEERING Highway 512.338.1784
		\rightarrow	WASTEWATER	www.kfriese NOTES	NAM	E DATE
		ツ	MANHOLE	SURVEY F	3Y	
) ~		DRAWN B	iy кт	07/21
		بر (POWER POI F	DESIGNED	BY AF	07/21
		/ \	ELECTRIC JUNCTION	CHECKED	BY GE	07/21
	(L))	BOX	REVIEWED	BY	
			MAILBOX TREE TREE WELL • 25 YEAR HGL		20 NTAL SCALI 4 CAL SCALE	40 E IN FEET 8 IN FEET
		-100Y	100 YEAR HGL			
					1 10	
				ILLLK()	11 10	UF <u>32</u>

	OWNED AND ONE NUMBER]. ALL WORK ON AIN WITH AN 48 HOURS OFF AND WET AULED FOR OCATION EVENT ELL FROM TY INFLUENT BE DRAINED WITH TCEQ ATION SHALL TED IN INEER PRIOR D BACK ON.	PICKWICK	HATTEN BEARD	CITY OF OLLINGWOOD			SU		MI S REE OF IDEF		AL SED RIM
CI- CUBB INLET SIJL-STORM DRAIN LINE PSU-PRECAST SLAB LID PROP-PROPOSED LEGEND LEGEND CENTERLINE RIGHT OF WAY LINE PROPERTY LINE EASEMENT LINE BACK OF CURB BACK OF CURB BAC	PRM - PRECAST	ABBRE\ ROUND MANHOLE	/IATIONS	TY - TYPE	c	THI GE IT IS NO ONSTF PEF	E AU OFF LIC. 03/ DT T RUCT RMIT	THOR ELFEF # 133 15/202 O BE I TON, E PURF	117 (255 23. USEI BIDD POSE	of P.E. D foi NG (ES.	R DR
Image: Solution of the second of the seco	PSL - PREC	AST SLAB LID		CENTERLINE RIGHT OF WAY LINE RIGHT OF WAY LINE PROPERTY LINE EASEMENT LINE BUILDING SETBACK LINE BACK OF CURB EDGE OF ASPHALT EDGE OF CONCRETE GUTTER CONCRETE PAVEMENT DRAINAGE FLOW LINE WOOD FENCE PAVED PARKING / DRIVEWAY WASTEWATER LINE WATER LINE ROCK WALL EXISTING RCP PIPE	CITY OF ROLLINGWOOD, TEXAS	PUBLIC WORKS DEPARTMENT		PROPOSED DRAINAGE IMPROVEMENTS		STORM SEWER PLAN & PROFILE	STA. 16+20.00-19+00.42
Inclusion Vertical Scale in FEET Wertical Scale in FEET Vertical Scale in FEET			G OH UG))))))))))))))))	NATURAL GAS LINE ELECTRIC OVERHEAD ELECTRIC UNDERGROUND GUY WIRE WATER METER WATER VALVE SPRINKLER VALVE SPRINKLER VALVE WASTEWATER MANHOLE CLEANOUT FIRE HYDRANT POWER POLE ELECTRIC JUNCTION BOX SIGN MAILBOX TREE TREE WELL 25 YEAR HGL	SU DES CH REV 0	REL 120 S. C CityView 2 Austin, Te 2 – 512.3 IBPE Firm www.kfries NOTES JRVEY RAWN I SIGNEE ECKED VIEWEE HORIZO VERTI	LIN K + PUB apistul xass 7 #653 e.com BY BY BY BY DBY DBY DBY CAL	IGV • F F A S S G e 100 8746 04 F - 35 NA K A S CAL	ALE IN	DOI TEXA ES ATE GINEERI Johway 2.338.17 07 07 07 07 07 07	C.S. NG 784 ATE 7/21 7/21 40 ET 8

ABBREVIATIONS
PRM - PRECAST ROUND MANHOLE
CI - CURB INLET
PSL - PRECAST SLAB LID
TY - TYPE
SDL - STORM DRAIN LINE
PROP - PROPOSED

LEGEND
25Y

PERMIT PURPOSES. PERMIT PURPOSES. SILVERSE SILVERSE <th>NOLESCURPTION REVISION DESCRIPTION REVISION DESCRIPTION REVISION DESCRIPTION THIS DOC FOR THE P RE THE GEC L IT IS NO CONSTRI</th> <th>SUMEN PURPO EVIEW AUTH PFF EL IC. # 03/15/ T TO F</th> <th>BN IT IS I DSE C UND IORIT FERS 13355 /2023. BE US N BII</th> <th></th> <th></th> <th></th> <th></th>	NOLESCURPTION REVISION DESCRIPTION REVISION DESCRIPTION REVISION DESCRIPTION THIS DOC FOR THE P RE THE GEC L IT IS NO CONSTRI	SUMEN PURPO EVIEW AUTH PFF EL IC. # 03/15/ T TO F	BN IT IS I DSE C UND IORIT FERS 13355 /2023. BE US N BII				
Image: Construction of the second state of the second s	CITY OF ROLLINGWOOD, TEXAS PUBLIC WORKS DEPARTMENT		PROPOSED DRAINAGE IMPROVEMENTS		SDI-R SDI-C & SDI-D I ATERAL PLAN & PROFILES		HUBBARD-HATLEY_DRAINAGE_IMPROVEMENTS\DGN\SHEETS\0803-C-SD-PLPR01.DWG,, COA_ESD.STB
K+FRIESE + ASSOCIATES PUBLIC PROJECT ENGINEERING 1120 S. Capital of Texas Highway CityView 2, Suite 100 Austin, Texas 78746 P. – 512.338.1704 F – 512.338.1704 BPE Firm #6535 www.kfriese.com NOTES NAME DRAWN BY KT DRAWN BY KT DESIGNED BY AF 0 20 40 HORIZONTAL SCALE IN FEET NET VERTICAL SCALE IN FEET NUT VERTICAL SCALE IN FEET NUT	R@LL	INC	ξW	0) s_	NGWOOD_H
SURVEY BY DRAWN BY DESIGNED BY AF 07/21 CHECKED BY CHECKED BY 020 40 020 40 HORIZONTAL SCALE IN FEET 04 VERTICAL SCALE IN FEET VERTICAL SCALE IN FEET	1120 S. Ca CityView 2, Austin, Tex P – 512.33 TBPE Firm www.kfriese	H AS PUBLIC Dital of Suite 1 as 7874 #6535 com	FR PROJECT Texas 00 6 F - 5 NAM	E	SI ATE INEERIN Way 3338.17	E S 16 84	X:\PROJECTS\0803_ROLL
DRAWN BY KT 07/21 DESIGNED BY AF 07/21 CHECKED BY GE 07/21 REVIEWED BY 0 0 40 HORIZONTAL SCALE IN FEET 0 4 8 VERTICAL SCALE IN FEET PI PR0/ 12 0 20	SURVEY E	γ					1
CHECKED BY GE 07/21 CHECKED BY GE 07/21 REVIEWED BY 0 40 HORIZONTAL SCALE IN FEET 0 4 8 VERTICAL SCALE IN FEET PI PR0/1 13 0F 32		Y BV	KT		07	7/21 7/21	7 PM
REVIEWED BY 0 20 40 HORIZONTAL SCALE IN FEET 0 4 8 VERTICAL SCALE IN FEET VERTICAL SCALE IN FEET VERTICAL SCALE IN FEET	CHECKED	BY	GE		07	/21)23 12:1
0 20 40 HORIZONTAL SCALE IN FEET 0 4 8 VERTICAL SCALE IN FEET VERTICAL SCALE IN FEET	REVIEWED	BY					3/15/2
HORIZONTAL SCALE IN FEET 0 4 8 VERTICAL SCALE IN FEET PI PR0/ 12 0F 22	0	2	0			40	
VERTICAL SCALE IN FEET	HORIZON 0	NTAL S	SCALI 1	E IN	IFEE	T 8	
	VERTIC	CAL SC	CALE	IN F	EET		
	PLPR04	4 1	3	OF	= ?	32	OFFREY ELFERS

O_{1} O_{1	00%	CUM E PUF REVIE IE AU OFF LIC. 03/	UB ENT RPOS WU THOI ELFE # 13 15/20 O BE TION, PUR	NDI RIT E C NDI RIT ERS 3555 23. US BIL PO	TI REIDFI ERYC 55 SEDDI SE				
CITY OF ROLLINGWOOD, TEXAS	PUBLIC WORKS DEPARTMENT					DRAINAGE & DAVEMENT DETAILS			
F	₹@ L	LIN.	161	N	0)]
11 C A P TI	120 S. 0 ityView ustin, T – 512. BPE Firr	4 PUE Capital 2, Suit exas 7 .338.17 n #65.3	• F ASS of Tex e 100 8746 04 F 35	R O UECT (as	EIA ENG High			5 6 84	-
		S	N	٩MI	E		DA	TE	
DF	RAWN	BY		KT			07	/21	_
DES							07	/21	
REV		D BY		JE			υ/	ı∠1	_
DI	ET0	2	16	;	OF	=	3	32	2

Normal Normalization Normalization </th <th>Г</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>MAX DE</th> <th>EPTH = 15 ft. to to</th> <th>op of BASE SLA</th> <th>В</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>MAX DI</th> <th>EPTH = 25 ft. to to</th> <th>p of BASE SLA</th> <th>В</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	Г						MAX DE	EPTH = 15 ft. to to	op of BASE SLA	В							MAX DI	EPTH = 25 ft. to to	p of BASE SLA	В						
					Base Slab			Base Unit orRis	er Walls		Below Grade S	Slab (w/PJB)Redu	cing Slab (w/PB)	Base Slab			Base Unit orRise	er Walls		Below Grade Sl	ab (w/PJB)Redu	cing Slab (w/PB)	e Gen	* 2)	5)
			jze	Short SpanReinf SteelArea	Long SpanReinf SteelArea	hickness	Short SpanReinf SteelArea	Long SpanReinf SteelArea	Thickness	Reduced Riser Size	Short SpanReinf SteelArea	Long SpanReinf SteelArea	hickness	Short SpanReinf SteelArea	Long SpanReinf SteelArea	hickness	Short SpanReinf SteelArea	Long SpanReinf SteelArea	hickness	Reduced Riser Size	Short SpanReinf SteelArea	Long SpanReinf SteelArea	hickness	Min Height(Se Note 3)	Aax HOLE DIA See Fab Note	//ax KO DIA See Fab Note
			ω Χ x Υ	Ashort	Along	⊢ BS	Bshort	Blong	W	RWSxRWLor	ID _{Dshort}	Dlong	TS	Ashort	Along	BS	Bshort	Blong	W	RWSxRWLor	ID _{Dshort}	Dlong	TS	BH MIN	HOLE DIA	KO DIA
			ft.	in₂/ft	in₂/ft	in.	in₂/ft	in₂/ft	in.	ft. **	in₂/ft	in₂/ft	in.	in₂/ft	in₂/ft	in.	in₂/ft	in₂/ft	in.	ft. **	in₂/ft	in₂/ft	in.	ft.	in.	in.
		3)	3x3	0.23	0.23	6	0.19	0.19	6	N/A	0.37	0.37	9	0.29	0.29	6	0.24	0.24	6	N/A	0.37	0.37	9	3.5	36	36
		x (PJE	4x4	0.29	0.29	6	0.24	0.24	6	N/A N/A	0.41	0.41	9	0.47	0.47	6	0.38	0.38	6	N/A N/A	0.41	0.41	9	4.5 3.5	36/60	36/60
		on Bo	4x5	0.36	0.18	6	0.13	0.34	6	N/A	0.42	0.42	9	0.53	0.26	6	0.39	0.59	6	N/A	0.42	0.42	9	4.5	48/60	48/60
	orany	lunctio	5x5	0.36	0.36	6	0.34	0.34	6	N/A	0.43	0.43	9	0.62	0.62	6	0.59	0.59	6	N/A	0.43	0.43	9	5.5	60	60
$ \frac{1}{2} $ $ 1$	sion	cast J	5x6	0.27	0.27	9	0.34	0.45	6	N/A	0.48	0.48	9	0.47	0.45	9	0.38	0.54	8	N/A	0.48	0.48	9	5.5	60/72	60/72
	sonver	Pre	6x6	0.27	0.27	9	0.45	0.45	6	N/A	0.56	0.56	9	0.52	0.52	9	0.54	0.54	8	N/A	0.56	0.56	9	6.5 8.5	96	72
Nerve Nerve <t< td=""><td>or the c</td><td></td><td>3x3</td><td>0.40</td><td>0.40</td><td>6</td><td>0.31</td><td>0.19</td><td>6</td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td><td>0.29</td><td>0.29</td><td>6</td><td>0.24</td><td>0.24</td><td>6</td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td><td>3.5</td><td>36</td><td>36</td></t<>	or the c		3x3	0.40	0.40	6	0.31	0.19	6	N/A	N/A	N/A	N/A	0.29	0.29	6	0.24	0.24	6	N/A	N/A	N/A	N/A	3.5	36	36
	ractice ibility fo is use.		4x4	0.29	0.29	6	0.24	0.24	6	N/A	N/A	N/A	N/A	0.47	0.47	6	0.38	0.38	6	N/A	N/A	N/A	N/A	4.5	48	48
Name Name <th< td=""><td>from it</td><td></td><td>3x5</td><td>0.29</td><td>0.18</td><td>6</td><td>0.19</td><td>0.35</td><td>6</td><td>3x3</td><td>0.30</td><td>0.34</td><td>9</td><td>0.39</td><td>0.18</td><td>6</td><td>0.23</td><td>0.59</td><td>6</td><td>3x3</td><td>0.40</td><td>0.40</td><td>9</td><td>3.5</td><td>36/60</td><td>36/60</td></th<>	from it		3x5	0.29	0.18	6	0.19	0.35	6	3x3	0.30	0.34	9	0.39	0.18	6	0.23	0.59	6	3x3	0.40	0.40	9	3.5	36/60	36/60
$\frac{1}{2} \int_{\frac{1}{2}} \frac{1}{2} \int_{\frac{1}{2}} \frac{1}$	nginet s no re sulting		4x5	0.36	0.18	6	0.22	0.34	6	3x3	0.30	0.30	9	0.53	0.26	6	0.39	0.59	6	3x3	0.46	0.37	9	4.5	48/60	48/60
Normal Normal<	exas E ssume ges re	3)	4x5 4x5	0.36	0.18	6	0.22	0.34	6	48"	0.30	0.30	9	0.53	0.26	6	0.39	0.59	6	48"	0.47	0.47	9	4.5	48/60	48/60
New more New more </td <td>DOT a DOT a</td> <td>se (PE</td> <td>4x5</td> <td>0.36</td> <td>0.18</td> <td>6</td> <td>0.22</td> <td>0.34</td> <td>6</td> <td>3x5</td> <td>0.33</td> <td>0.40</td> <td>9</td> <td>0.53</td> <td>0.26</td> <td>6</td> <td>0.39</td> <td>0.59</td> <td>6</td> <td>3x5</td> <td>0.48</td> <td>0.48</td> <td>9</td> <td>4.5</td> <td>48/60</td> <td>48/60</td>	DOT a DOT a	se (PE	4x5	0.36	0.18	6	0.22	0.34	6	3x5	0.33	0.40	9	0.53	0.26	6	0.39	0.59	6	3x5	0.48	0.48	9	4.5	48/60	48/60
N N	ied by er. Txl sults or	st Ba	5x5	0.36	0.36	6	0.34	0.34	6	3x3	0.34	0.34	9	0.62	0.62	6	0.59	0.59	6	3x3	0.53	0.53	9	5.5	60	60
$\frac{1}{2} \sqrt{2} \sqrt{2} \sqrt{2} \sqrt{2} \sqrt{2} \sqrt{2} \sqrt{2} $	goverr atsoev ect ree	Preca	5x5	0.36	0.36	6	0.34	0.34	6	4x4	0.36	0.36	9	0.62	0.62	6	0.59	0.59	6	4x4	0.64	0.64	9	5.5	60	60
New procession No.	dard is se wh r incor		5x5 5x5	0.38	0.38	6	0.34	0.34	6	3x5	0.30	0.30	9	0.62	0.62	6	0.59	0.59	6	3x5	0.53	0.53	9	5.5	60	60
NAME	s stand / purpo is or fo		5x6	0.31	0.31	9	0.34	0.45	6	3x3	0.34	0.34	9	0.47	0.45	9	0.38	0.54	8	3x3	0.61	0.50	9	5.5	60/72	60/72
Norm Norm </td <td>e of thi for any format</td> <td></td> <td>5x6</td> <td>0.27</td> <td>0.27</td> <td>9</td> <td>0.34</td> <td>0.45</td> <td>6</td> <td>4x4</td> <td>0.36</td> <td>0.45</td> <td>9</td> <td>0.47</td> <td>0.45</td> <td>9</td> <td>0.38</td> <td>0.54</td> <td>8</td> <td>4x4</td> <td>0.74</td> <td>0.57</td> <td>9</td> <td>5.5</td> <td>60/72</td> <td>60/72</td>	e of thi for any format		5x6	0.27	0.27	9	0.34	0.45	6	4x4	0.36	0.45	9	0.47	0.45	9	0.38	0.54	8	4x4	0.74	0.57	9	5.5	60/72	60/72
New procession New	The use xDOT other		5x6	0.29	0.29	9	0.34	0.45	6	48"	0.36	0.45	9	0.47	0.45	9	0.38	0.54	8	48"	0.74	0.57	9	5.5	60/72	60/72
New method New me	e by T dard to		5x6	0.29	0.29	9	0.34	0.45	6	3x5 3x3	0.45	0.45	9	0.47	0.45	9	0.38	0.54	8	3x3	0.74	0.74	9	6.5	72	72
Sã 64 033 0.05 0 0.44 0.46 0 44 0.45 0 0.55 0.54 0.4 0 44 0.45 77 77 64 0.32 0.22 0 0.44 0.44 0.45 0.44 0.45 0.44 0.44 0.44 0.44 0.45 0.45 0.45 0.44 0.44 0.44 0.45 0.45 0.45 0.44 0.44 0.45 0.45 0.44 0.44 0.45 0.45 0.45 0.44 0.44 0.45 0.44 0.45 0.45 0.44 </td <td>SLAIME is mad is stan</td> <td></td> <td>6x6</td> <td>0.27</td> <td>0.27</td> <td>9</td> <td>0.45</td> <td>0.45</td> <td>6</td> <td>4x4</td> <td>0.45</td> <td>0.45</td> <td>9</td> <td>0.52</td> <td>0.52</td> <td>9</td> <td>0.54</td> <td>0.54</td> <td>8</td> <td>4x4</td> <td>0.87</td> <td>0.87</td> <td>9</td> <td>6.5</td> <td>72</td> <td>72</td>	SLAIME is mad is stan		6x6	0.27	0.27	9	0.45	0.45	6	4x4	0.45	0.45	9	0.52	0.52	9	0.54	0.54	8	4x4	0.87	0.87	9	6.5	72	72
v v v v v v v v v v v v v v v v v v v	DISC of th		6x6	0.29	0.29	9	0.45	0.45	6	48"	0.45	0.45	9	0.52	0.52	9	0.54	0.54	8	48"	0.87	0.87	9	6.5	72	72
mag ting			6x6	0.29	0.29	9	0.45	0.45	6	3x5	0.45	0.45	9	0.52	0.52	9	0.54	0.54	8	3x5	0.87	0.87	9	6.5 8.5	72	72
Mark Dip Dip <thdip< th=""> <thdip< td="" th<=""><td></td><td></td><td>8x8 8x8</td><td>0.52</td><td>0.52</td><td>9</td><td>0.51</td><td>0.51</td><td>8</td><td>4x4</td><td>0.81</td><td>0.70</td><td>12</td><td>0.91</td><td>0.91</td><td>9</td><td>0.70</td><td>0.70</td><td>10</td><td>4x4</td><td>1.01</td><td>1.01</td><td>12</td><td>8.5</td><td>96</td><td>72</td></thdip<></thdip<>			8x8 8x8	0.52	0.52	9	0.51	0.51	8	4x4	0.81	0.70	12	0.91	0.91	9	0.70	0.70	10	4x4	1.01	1.01	12	8.5	96	72
line 0.52 0.54 0.51 0.51 0.53 0.72 0.53 0.72 0.53 0.70 </td <td></td> <td></td> <td>8x8</td> <td>0.52</td> <td>0.52</td> <td>9</td> <td>0.51</td> <td>0.51</td> <td>8</td> <td>48"</td> <td>0.70</td> <td>0.70</td> <td>12</td> <td>0.87</td> <td>0.87</td> <td>9</td> <td>0.70</td> <td>0.70</td> <td>10</td> <td>48"</td> <td>1.01</td> <td>1.01</td> <td>12</td> <td>8.5</td> <td>96</td> <td>72</td>			8x8	0.52	0.52	9	0.51	0.51	8	48"	0.70	0.70	12	0.87	0.87	9	0.70	0.70	10	48"	1.01	1.01	12	8.5	96	72
** Unless otherwise in initiation: ** Unless otherwise in initiation: ** Unless otherwise initiatio			8x8	0.52	0.52	9	0.51	0.51	8	3x5	0.70	0.85	12	0.87	0.87	9	0.70	0.70	10	3x5	1.01	1.01	12	8.5	96	72
 1. Adamium spacing of treinforcement is ": 1. At manufacture's option, provide cast or core holes or thin wall panels (KO) to the maximum diameter shown for each. When no penelration is required, it is acceptable to provide a wall with no escilant reduction. CENERAL MOTES: 1. Precess Historica Box consists of base slab, base unit, risers (as required), and below grade slab. See sheet PB for details. 2. Precess Hase consists of base slab, base unit, risers (as required), reducing slab (as required). See sheet PB for details. 3. Min Height hown is for stack obch base units hown is a stack base units hown is hown is a stack base units hown is hown is a stack base units hown is hown is													FABRICA	TION NOTES	÷	** Unl	less otherwise in	dicated.					F	IL93 LOAD	ING	
(C) XDO1 February 2020 CONT SECT JOB HIGHWAY REVISIONS I I I I DIST COUNTY SHEET NO I I I SHEET NO													 ADATICA Maximum At manufamaximum to provide GENERAI Precast J grade slat Precast E required), Min Heigh Smaller he noted else 	acturer's option, diameter shown a wall with no so NOTES: unction Box cons b. See sheet PJI ase consists of l and reduced risc ht shown is for st eight base units ewhere in the pla	orcement is 8". provide cast or co for each. When r ectional reduction. Sists of base slab, a for details. base slab, base un ers (as required). ock base units. U can be used in sp ns. Absolute min	red holes or thi no penetration base unit, rise nit, risers (as re See sheet PB se stock base ecial installation mum height of	in wall panels (K0 is required, it is a rs (as required), a equired), reducing for details. units whenever p n circumstances, base units is 2'-6	D) to the cceptable and below g slab (as gractical. when y".				FILE: pres	Arrow Contract of the second s	DATA DATA TBAS TION E	FOR FOR E AND BOX PDD	Bridge Division Standard
	ندر لن																					CTXDOT	February 2020 REVISIONS	CONT SE	CT JOB	HIGHWAY SHEET NO
	DATE																							ופוע	COUNTY	SHEET NU.

THIS DOC FOR THE F RE THE GEO L IT IS NO CONSTRU PER	SUME SUME SURF SVIE AUT FF E IC. # 03/1 T TC JCTI MIT	JB SNT POSI W UI THOF ELFE # 13: 5/20 D BE ON, PUR	IS I E C NDI RIT RS 355 23. US BIL PO		LE/NT DF .E. S.			
CITY OF ROLLINGWOOD, TEXAS PUBLIC WORKS DEPARTMENT								
R@LL	.IN	G	N	0)]
1120 S. Cap CityView 2, Austin, Tex P – 512.33 TBPE Firm	K • PUBL pital of Suite as 78 i8.170 #6535	F S S C PRO D T C PRO 100 746 4 F 5	R JECT (as	ENG High		ERIN Y	S 16	
		N/	٩MI	E		DA	TE	
DRAWN B	Y		ΚT			07	/21	
DESIGNED CHECKED	BY BY		AF GE			07 07	/21 /21	
REVIEWED	BY							
DET04		18	;	OF	=	3	32	
						_		l

1 0" Min to 5'-0" Max. Estimated cu structures with pedestrian rail or o Details (ECD) standard sheet. Fo to the Mounting Details for T631 & to the Rail Anchorage Curb (RAC) than T631 or T631LS.

- ² For vehicle safety, the following r · For structures without bridge finished grade. · For structures with bridge rail
- Reduce curb heights, if necessar be made in quantities and no add
- $^{(3)}$ For curbs less than 1'-0" high, tilf maintain cover. For curbs less th
- 4 1'-0" typical. 2'-3" when the Rail to elsewhere in the plans.

The Contractor may replace Bars E welded wire reinforcement (WWR) area of required reinforcement may Spacing of WWR is limited to 4" M in the WWR of the same length re wire sizes between conventional b never less than the lap length requ

Example conversion: Replacing No Required WWR = (0.44 sq. in. per 0 If D30.6 wire is used to meet the (the required spacing = (0.306 sq. i Max spacing. Required lap length minimum lap length required for un

CONSTRUCTION NOTE Do not use permanent forms. Chamfer the bottom edge of t Optionally, raise construction this option is taken, Bars M may

MATERIAL NOTES: Provide Grade 60 reinforcing

- Provide galvanized reinforcing Provide Class C concrete (f'c = following exceptions: provide C
- · culverts with overlay, · culverts with 1-to-2 course s · culverts with the top slab as
- Provide bar laps, where require Uncoated or galvanized ~ · Uncoated or galvanized ~ #

- GENERAL NOTES: Designed according to AASHT fill heights shown. See the Single Box Culverts Ca sheet for details pertaining to sk
- Cover dimensions are clear
- Reinforcing bar dimensions

PLAN OF REINF STEEL

	REVISION DESCRIPTION		
curb heights are shown elsewhere in the plans. For r curbs taller than 1'-0", refer to the Extended Curb For structures with T631 or T631LS bridge rail, refer 1 & T631LS Rails (T631-CM) standard sheet. Refer AC) standard sheet for structures with bridge rail other	DATE		
requirements must be met: e rail, construct curbs no more than 3" above	0. BY		
il, construct curbs flush with finished grade. ary, to meet the above requirements. No changes will	<u>zz</u>	 % SUBN	
It Bars K or reduce bar height as necessary to than 3" high. Bars K may be omitted.	THIS I		RELEASED
I Anchorage Curb (RAC) standard sheet is referred	FOR II (IT IS	REVIEW UND REVIEW UND THE AUTHORIT GEOFF ELFERS LIC. # 13355 03/15/2023	DF INTERIM ER Y OF 3, P.E. 55
B, C, D, E, F1, F2, M, Y, and/or Z with deformed) meeting the requirements of ASTM A1064. The ay be reduced by the ratio of 60 ksi / 70 ksi. Ain and 18" Max. When required, provide lap splices equired for the equivalent bar size, rounded up for bar sizes. The lap length required for WWR is uired for uncoated #4 bars.	F	PERMIT PURPC	DDING OR DSES.
No. 6 Gr 60 at 6" Spacing with WWR. r 0.5 ft.) x (60 ksi / 70 ksi) = 0.755 sq. in. per ft. 0.755 sq. in. per ft. requirement in this example, in.) / (0.755 sq. in. per ft.) x (12 in. per ft.) = 4.86" in for the provided D30.6 wire is 2'-1" (the same incoated #5 bars, as listed under MATERIAL NOTES).		MENTS	S
	AS	D OVE	TAIL
ES:	TEX	APR APR	
the top slab 3" at the entrance. joints shown at the flow line by a maximum of 6". If ay be cut off or raised, Bars C and D may be reversed.	00D, RKS		VEN_
steel. g steel if required elsewhere in the plans. = $3,600 \text{ psi}$ for culvert barrel and curb, with the Class S concrete (fc = $4,000 \text{ psi}$) for top slabs of:	DLLINGW	ROLLII	PAVEN
surface treatment, or s the final riding surface. ed, as follows: #4 = 1'-8" Min #5 = 2'-1" Min	NTY OF R	CITY OF VOOD D	NAGE &
ITO LRFD Bridge Design Specifications for the range of Cast-In-Place Miscellaneous Detail (SCC-MD) standard skewed ends, angle sections, and lengthening.	0	DLLINGV	DRAI
limensions, unless noted otherwise. hown are out-to-out of bar.		RC	
HL93 LOADING SHEET 1 OF 2	R	LLINGW	
Texas Department of Transportation Bridge Division Standard SINGLE BOX CULVERTS	1120 S CityVie Austin, P - 5	+ ASSO PUBLIC PROJECT 5. Capital of Texas w 2, Suite 100 Texas 78746 12.338,1704 F -	T E S L CIATES T ENGINEERING Highway 512.338.1784
CAST-IN-PLACE 0' TO 30' FILL	NOT	riese.com	E DATE
	SURVE	EY BY	07/04
SCC-3 & 4	DRAW	IED BY AF	07/21
FILE: scc34ste-21.dgn DN: TBE CK: BMP DW: TxDOT CK: TxDOT CTxDOT February 2020 CONT SECT JOB HIGHWAY REVISIONS	CHECK	ED BY GE /ED BY	07/21
04/2021 Updated X values. DIST COUNTY SHEET NO.	_		
	DET	05 19	OF 32

				5											BIL	LS OF I	REIN	IFOF	RCI	NG STE	EL (Fo	r Box L	ength =	40 fe	eet)									
S C	SECTION DIMENS	N IONS		HEIGHT			Ba	rs B					Ba	ars C						Ba	ars D				Bars	s M ~ #4		В	ars F1 ~ #4 at 18" Spa]	В	ars F2 ~ #4 at 18" Spa		Bars H 4 ~ #4
S	н	т	U		No.	Size	Spa	Length	Weight	No.	Size	Spa	Length	Weight	" X "	" Y "	No.	Size	Spa	Length	Weight	" Y "	"Z"	No.	Spa	Length	Weight	No.	Length	Wt	No.	Length	Weight	Length
3' - 0"	2' - 0"	8"	7"	30'	108	#5	9"	3' - 11"	441	108	#4	9"	5' - 4"	385	2' - 6"	2' - 10"	108	#4	9"	5' - 1"	367	2' - 10"	2' - 3"	108	9"	2' - 0"	144	3	39' - 9"	80	19	39' - 9"	505	3' - 11"
3' - 0"	3' - 0"	8"	7"	30'	108	#5	9"	3' - 11"	441	108	#4	9"	6' - 4''	457	3' - 6"	2' _ 10"	108	#4	9"	5' - 1"	367	2' - 10"	2' - 3"	108	9"	3' - 0"	216	3	39' - 9"	80	23	39' - 9"	611	3' - 11"
4' - 0"	2' - 0"	8"	7"	30'	108	#5	9"	4' - 11"	554	162	#4	6"	5' - 8"	613	2' - 6''	3' - 2"	162	#4	6"	5' - 5"	586	3' - 2"	2' - 3"	108	9"	2' - 0"	144	3	39' - 9"	80	21	39' - 9"	558	4' - 11"
4' - 0"	3' - 0''	8"	7"	30'	108	#5	9"	4' _ 11"	554	162	#4	6"	6' - 8''	721	3' - 6''	3' - 2"	162	#4	6"	5' - 5"	586	3' - 2"	2' - 3"	108	9"	3' - 0"	216	3	39' - 9"	80	25	39' - 9"	664	4' - 11"
4' - 0''	4' - 0''	8"	7"	30'	108	#5	9"	4' - 11"	554	162	#4	6"	7' - 8"	830	4' - 6"	3' - 2"	162	#4	6"	5' - 5''	586	3' - 2"	2' - 3"	108	9"	4' - 0''	289	3	39' - 9"	80	25	39' - 9"	664	4' - 11"

5 DISCLAIMER: The use of this standard is governed by the "Texas Engineering Practice Act". No kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the cor of this standard to other formats or for incorrect results or damages resulting from its use.

巴

BILLS OF REINFORCING STEEL	(For Box Length = 40 feet)
----------------------------	----------------------------

⁽⁵⁾ For direct traffic culverts (fill height ≤ 2 ft.), identify the required box size and select the option with the minimum fill height.

Bars				JANI	ITIES	5			
Ne	K	Per I of Ba	Foot arrel	Cu	rb	То	tal	DATE	
INO.	Wt	Conc	Reinf	Cono	Poinf	Cono	Poinf		
10	28	0.292	48.1	(CY) 0.3	(<u>Lb)</u> 38	(CY) 12.0	(<u>Lb)</u> 1,960		╵┱╶┓
10 12	28 33	0.335	54.3 63.4	0.3	38 46	13.7 14.1	2,210 2,581		
12	33	0.342	70.5	0.4	46	15.8	2,867	THIS DOCUMENT IS RE FOR THE PURPOSE OF	ELEA INTE
12	33	0.428	75.1	0.4	46	17.5	3,049	REVIEW UNDER THE AUTHORITY (R OF
								GEOFF ELFERS, F LIC. # 133555	Р.Е.
								03/15/2023.	
								CONSTRUCTION, BIDD	
								ST ST	
									<u>ر</u>
								S S	ΓA
								RCO RCC	11
								Ξ	
								MOOD, ORKS AENT GE IM	MENT DE
								NAGWOOD, WORKS TMENT ILLINGW	VEMENT DE
								LLINGWOOD, LLINGWOOD, LLIC WORKS PARTMENT ROLLINGW AINAGE IM	
								ROLLINGWOOD, VUBLIC WORKS DEPARTMENT F ROLLINGW DRAINAGE IM	& DAVEMENT DE
								JF ROLLINGWOOD, PUBLIC WORKS DEPARTMENT OF ROLLINGW	E & DAVEMENT DE
								Y OF ROLLINGWOOD, PUBLIC WORKS DEPARTMENT TY OF ROLLINGW	AGE & PAVEMENT DE
								CITY OF ROLLINGWOOD, PUBLIC WORKS DEPARTMENT CITY OF ROLLINGW MOOD DRAINAGE IM	INAGE & PAVEMENT DE
								CITY OF ROLLINGWOOD, PUBLIC WORKS DEPARTMENT CITY OF ROLLINGW	RAINAGE & PAVEMENT DE
								CITY OF ROLLINGWOOD, PUBLIC WORKS DEPARTMENT CITY OF ROLLINGW	DRAINAGE & PAVEMENT DE
								CITY OF ROLLINGWOOD, PUBLIC WORKS DEPARTMENT CITY OF ROLLINGW	DRAINAGE & PAVEMENT DE
								CITY OF ROLLINGWOOD, PUBLIC WORKS DEPARTMENT CITY OF ROLLINGW ROLLINGWOOD DRAINAGE IM	DRAINAGE & PAVEMENT DE
								CITY OF ROLLINGWOOD, PUBLIC WORKS DEPARTMENT CITY OF ROLLINGWO ROLLINGWOOD DRAINAGE IM	DRAINAGE & PAVEMENT DE
 HL9	0 <u>3 LC</u>	DADING		SHE	EET 2	<u>OF 2</u>		CITY OF ROLLINGWOOD, PUBLIC WORKS DEPARTMENT CITY OF ROLLINGWOOD, ROLLINGWOOD DRAINAGE IM	
HL9		DADING	nt of Tra	SHE	EET 2	OF 2	idge vision andard	CITY OF ROLLINGWOOD, PUBLIC WORKS DEPARTMENT CITY OF ROLLINGWOOD RELINGWOOD DRAINAGE IM ROLLINGWOOD DRAINAGE IM ROLLINGWOOD DRAINAGE IM	
	03 LC • as De		nt of Tra	SHE nspor	EET 2	OF 2 Dit Sta	idge vision andard	CITY OF ROLLINGWOOD PUBLIC WORKS PUBLIC WORKS PUBLIC WORKS DEPARTMENT CITY OF ROLLING K-EETE Fassoci Drandecten 150 s. Calital of Texas His CityView 2, Suite 100 Austin, Texas 78746	
		DADING	nt of Tra X CU	SHE nspor LVE	ET 2	OF 2 Dia Sta	idge vision andard	CITY OF ROLLINGWOOD PEPARTMENT CITY OF ROLLINGWOOD PEPARTMENT CITY OF ROLLINGWOOD Reference Provided in Rollingwood Provided in Reference Provided in Refe	
		DADING DADING EBOX AST-I 0' T	nt of Tra X CU IN-PL	SHE nspor LVE ACI FILL	EET 2	OF 2 Dia Sta	idge vision andard	STATES AND	
	BLE CA	DADING DADING DADING DATIMO ST-I 0' T	nt of Tra X CU IN-PL FO 30' I	SHE nspor LVE ACI FILL	ET 2	OF 2 Bri Sta	idge vision andard	SURVEY BY	
	as De CA	DADING DADING EBOX AST-I 0' T	nt of Tra X CU IN-PL FO 30' I	SHE nspor LVE ACI FILL	ET 2	OF 2 Bri Sta	idge vision andard	[*] (SUMURE) [*] (SURVEY BY	
HL9 Texa INC	3 LC s De GLE CA	DADING DADING BOX ST-I 0' T	nt of Tra X CU IN-PL TO 30' I SCC-	SHE nspor LVE ACI FILL	EET 2 tation ERTS E	OF 2 Bri Sta	idge vision andard	[^] OOOMSNITIONALUD	
HL9 Toxa INC	-21.dgn	DADING Department EBO AST-I 0' T	Int of Tra X CU N-PL TO 30' I SCC-	SHE ACI FILL SECT	EET 2	OF 2 Dia Sta	idge vision andard	[^] NONITION INTERPETENT (SURVEY BY [^] NOTES [^] NAME [^] NAME [^] NONES [^] NONITIONALIO [^] NAME [^] NAME [^] NAME [^] NO	

CITY OF ROLLING CITY OF ROLLING CITY OF ROLLING CITY OF ROLLING PRINTING
Image: Constraint of the system of the sy
K+FRIESE JUBLIC PROJECT ENGINEERING TI20 S. Capital of Texas Highway CityView 2, Suite 100 Austin, Texas 78746 P - 512.338.1704 F - 512.338.1784 TBPE Firm #6535 www.kfriese.com NOTES NAME DATE SURVEY BY DRAWN BY KT 07/21 DESIGNED BY AF 07/21 CHECKED BY GE 07/21 REVIEWED BY I I
NOTESNAMEDATESURVEY BYIIDRAWN BYKT07/21DESIGNED BYAF07/21CHECKED BYGE07/21REVIEWED BYII
DRAWN BY KT 07/21 DESIGNED BY AF 07/21 CHECKED BY GE 07/21 REVIEWED BY 5
CHECKED BY GE 07/21 REVIEWED BY
REVIEWED BY

BARS U (#4)⁶

Spaced at 12" Max

- \bigcirc "T" is equal to the culvert top slab thickness. For precast boxes with slabs less than 8" thick, see SCP-MD standard for additional details.
- 2 Adjust normal culvert slab bars as necessary to clear obstructions.
- ³Place bars L as shown. Tilt hook as necessary to maintain cover.
- 4 Place normal culvert curb bars H(#4)as shown. Adjust as necessary to clear obstructions.
- Additional bars H(#4) as required to maintain 12" Max spacing.
- 6 Replace normal culvert curb bars K with one bar U and two bars V as shown spaced at 12" Max. Adjust length of bars V as necessary to maintain clear cover.
- Optional bars L are to be used only for precast box culverts with 3'-0" closure pour.
- 8 Quantities shown are for Contractor's information only. Quantities are per linear foot of curb length. The value in table can be interpolated for intermediate values of curb height, "C". Quantity includes bars K (when applicable).

payment.

Cove otherw Rein

- TABLE CURI	OF ESTIM B QUANTIT	ATED IES (8)
Curb Height "C"	Conc (CY/LF)	Reinf Steel (Lb/LF)
1'-0"	0.037	10.4
1'-6"	0.056	14.5
2'-0"	0.074	15.6
2'-6"	0.093	18.0
3'-0"	0.111	19.0
3'-6"	0.130	21.3
4'-0"	0.148	22.4
4'-6"	0.167	24.8
5'-0"	0.185	25.9

CONSTRUCTION NOTES:

Adjust reinforcing steel as necessary to provide 1 ¼" cover. For vehicle safety, top of the curb must not project more than 3" above the finished grade.

MATERIAL NOTES: Provide Grade 60 reinforcing steel. Provide galvanized reinforcing steel if required elsewhere in the plans. Provide Class "C" concrete (f'c = 3,600 psi) minimum for curbs Provide bar laps, where required, as follows: \cdot Uncoated or galvanized ~ #4 = 1'-8" Min

GENERAL NOTES:

Designed according to AASHTO LRFD Bridge Design Specifications. These extended curb details have sufficient strength to allow for future retrofit of Type T631 or T631LS railing. These details are suitable for use with PR11, PR22 and PR3 type rails. These details are not suitable for the mounting of other rail types. For new construction using T631 or T631LS railing, use the T631—CM standard.

This Curb is considered as part of the Box Culvert for

ver	dime	nsior	าร	are	clear	dimen	sions	s, unless	not	ed	
WISE	Э.										
info	rcing	bar	di	men	sions	shown	are	out-to-	-out	of	b

Texas Department	of Tra	nsp	ortation	ŀ	Brid Div Sta	dge ision ndard
EXTENDED FOR BOX CURBS OVER 1	CUL (VEF T(3 DE RTS W D 5'-	∃ T IT⊢ 0"	TAIL	_S _L
		Ε	CD			
FILE: ecdstde1-20.dgn	DN:(AF	ск: TxDOT	DW: _	_TxDOT_	ск: GAF
©TxDOT February_2020_	CONT	SECT	JOB		HI	GHWAY
				I		
REVISIONS						
REVISIONS	DIST		COUNTY			SHEET NO.
REVISIONS	DIST		COUNTY			SHEET NO.
REVISIONS	DIST		COUNTY			SHEET NO.
REVISIONS	DIST		COUNTY			SHEET NO.
REVISIONS	DIST		COUNTY			SHEET NO.

CITY OF ROLLING CITY OF ROLLING PUBLIC WORKS PUBLIC WOR	THIS DOW FOR THE GEO IT IS NO CONSTR PEF	SUME PURE EVIEV E AUT DFF E LIC. # 03/1 DT TC UCTI RMIT	JB THOF SUFE 13: 5/20 DBE ON, PUR	IS F E C NDI RIT S 355 23. US BIE PO		LEANT DF .E. DF NC S.			
REFERENCE EXAS	CITY OF ROLLINGWOOD, TEXAS PUBLIC WORKS DEPARTMENT	CITY OF ROLLINGWOOD, TEXAS PUBLIC WORKS PUBLIC WORKS DEPARTMENT CITY OF ROLLINGWOOD CITY OF ROLLINGWOOD RAINAGE IMPROVEMENTS DRAINAGE & PAVEMENT DETAILS							
TEXAS K: FRIESE ASSOCIATES PUBLIC PROJECT ENGINEERING 1120 S. Capital of Texas Highway CityView 2, Suite 100 Austin, Texas 78746 P - 512.338.1704 P - 512.338.1704 F - 512.338.1784 TBPE Firm #6535 www.kfriese.com NOTES NAME DRAWN BY KT DRAWN BY KT OT/21 DESIGNED BY AF OT/21 REVIEWED BY GE 07/21 REVIEWED BY OT/21	RøL	LIN	GI	N	0	C)]
NOTESNAMEDATESURVEY BYImage: constraint of the second	1120 S. C. CityView 2 Austin, Te P - 512.3 TBPE Firm www.kfrieso	+ / + / PUBL apital a , Suite xas 78 38.170 #6535 e.com	F ASS of Tex 100 746 4 F	R O UECT as	ENG High		ERINY	8 – 5 16 84	
DETOR 22 OF 22		NOTES NAME DATE							_
DESIGNED BY AF 07/21 CHECKED BY GE 07/21 REVIEWED BY	DRAWN E	DRAWN BY KT 07/21							
	DESIGNED CHECKED	DESIGNED BY AF 07/21 CHECKED BY GE 07/21							-
	REVIEWED	REVIEWED BY							
	DET08	3	22)	OI	=	3	32	2

STA 18+27.47 0/S -11.417 L	T		REVISION DESCRIPTION		
BEGIN 2" FORCE MAIN VEF RELOCATION IN ACCORDA	RTICAL OFFSET ANCE W/ DETAILS		DATE		
-4"x4" FORCE MAIN WET (2-45 DEGREE RESTRAINEI	CONNECTION D BENDS (VERTICAL C		BY		
			REV NO.		
			100%	SUBM	TTAL
205 ALMARION	WAY		THIS DOC FOR THE P RE THE GEO LI U IT IS NO CONSTRU PERM	UMENT IS RI URPOSE OF VIEW UNDEI AUTHORITY FF ELFERS, C. # 133555 03/15/2023. IT TO BE USE ICTION, BIDI MIT PURPOS	ELEASED INTERIM R OF P.E. D FOR DING OR ES.
O/S 11.417 RT RCE MAIN VERTICAL OFFS I IN ACCORDANCE W/ DET E MAIN WET CONNECTION RESTRAINED BENDS (VE	ET AILS N ERTICAL OFFSET)		(AS	D VEMENTS	EWER
IVE	LEGEND		, TEX	VOC	Y SE
BAR OR EACH FOOT OF N BEND		CENTERLINE RIGHT OF WAY LINE PROPERTY LINE EASEMENT LINE BUILDING SETBACK LINE BACK OF CURB EDGE OF ASPHALT EDGE OF CONCRETE GUTTER CONCRETE PAVEMENT DRAINAGE FLOW LINE WOOD FENCE PAVED PARKING / DRIVEWAY	CITY OF ROLLINGWOO PUBLIC WORK DEPARTMEN1	CITY OF ROLLING PROPOSED DRAINAGE IN	WATER AND SANITAF LOCATIONS
		WATER LINE ROCK WALL	R@LL	INGWO	
	G E OH E UG	EXISTING RCP PIPE NATURAL GAS LINE ELECTRIC OVERHEAD ELECTRIC UNDERGROUND	1120 S. Cap CityView 2, Austin, Texa P - 512.331 TBPE Firm f www.kfriese	K • F RI + ASSOC PUBLIC PROJECT E ital of Texas Hi Suite 100 s 78746 3.1704 F - 51 6535 com	ESE IATES NGINEERING ghway 2.338.1784
		GUY WIRE WATER METER	NOTES	NAME	DATE
	$\langle \!$	WATER VALVE SPRINKLER VALVE	SURVEY B	r / KT	06/22
	$^{<} \rightarrow$	WASTEWATER MANHOLE	DESIGNED E	BY AF BY GE	06/22 07/21
	\bigcirc	CLEANOUT FIRE HYDRANT		ЗҮ ОС	
		POWER POLE ELECTRIC JUNCTION		20 ITAL SCALE	40 IN FEET
	(E) 	BOX SIGN		4 AL SCALE IN	8 I FEET
		MAILBOX TREE			
	25Y	TREE WELL 25 YEAR HGL	SDPL1	23 0	DF 32

19 PM X:\PROJECTS\0803_ROLLINGWOOD_HUBBARD-HATLEY_DRAINAGE_IMPROVEMENTS\DGN\SHEETS\0803-C-GD-PLAN01.DWG, ----, C

JFFREY ELFE

- 1. CONTRACTOR TO PROVIDE ACCESS TO DRIVEWAYS AT ALL TIMES.
- 2. CONSTRUCTION ACTIVITIES SHALL PROGRESS FROM DOWNSTREAM TO UPSTREAM.
- 3. CONSTRUCTION WILL BE SEQUENCED IN A MANNER THAT WILL NOT DISTURB OR DAMAGE PREVIOUSLY CONSTRUCTED WORK.

EXISTING FEATURES

	RIGHT OF WAY LINE
	PROPERTY LINE
	EASEMENT LINE
	— — — BUILDING SETBACK LINE
	BACK OF CURB
	EDGE OF ASPHALT
	EDGE OF CONCRETE
	GUTTER
	CONCRETE PAVEMENT
>	DRAINAGE FLOW LINE
/ // // //	WOOD FENCE
— — — — — — -600- — —	
	GRADE BREAK
6	
Е ОН	
EUC	
E 0G	
$\langle \rangle$	
\bigcirc	
E	ELECTRIC JUNCTION BOX
	STOP SIGN
	MAILBOX
	TREE
	TREE WELL
LEGEND	
$\square \square \square$	
<u> </u>	MULCH SOCK
WISWIS	MOLOH COOK
	SILTEENCE
51 - 5F -	
— TP — TP — TP —	TREE PROTECTION

STABILIZED CONSTRUCTION ENTRANCE

REVEGETATE

- 1. CONTRACTOR TO PROVIDE ACCESS TO DRIVEWAYS AT ALL TIMES.
- 2. CONSTRUCTION ACTIVITIES SHALL PROGRESS FROM DOWNSTREAM TO UPSTREAM.
- 3. CONSTRUCTION WILL BE SEQUENCED IN A MANNER THAT WILL NOT DISTURB OR DAMAGE PREVIOUSLY CONSTRUCTED WORK.

EXISTING FEATURES

	CENTERLINE
	RIGHT OF WAY LINE
	PROPERTY LINE
	EASEMENT LINE
	BUILDING SETBACK LINE
	BACK OF CURB
	EDGE OF ASPHALT
	EDGE OF CONCRETE
	GUTTER
	CONCRETE PAVEMENT
>	DRAINAGE FLOW LINE
	DITCH EDGE
/ /	WOOD FENCE
	MAJOR CONTOURS
599	MINOR CONTOURS
	GRADE BREAK
	PAVED PARKING / DRIVEWAY
	SLOPE TOP
	SLOPE BOTTOM
	WASTEWATER LINE
W	WATER LINE
	ROCK WALL
	EXISTING RCP PIPE
G	NATURAL GAS LINE
——————————————————————————————————————	ELECTRIC OVERHEAD
——————————————————————————————————————	ELECTRIC UNDERGROUND
(GUY WIRE
	WATER METER
$\langle \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$	WATER VALVE
	SPRINKLER VALVE
	WASTEWATER MANHOLE
\bigcirc	CLEANOUT
\bigcirc	FIRE HYDRANT
	POWER POLE
E	ELECTRIC JUNCTION BOX
	STOP SIGN
	MAILBOX
	TREE
	TREE WELL
LEGEND	

LIMITS OF CONSTRUCTION

STABILIZED CONSTRUCTION ENTRANCE

REVEGETATE

----MS----MS--- MULCH SOCK

----SF----SF---- SILT FENCE

-TP - TP - TP - TREE PROTECTION

100% SUBMITTAL THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF INTERIM **REVIEW UNDER** THE AUTHORITY OF GEOFF ELFERS, P.E. LIC. # 133555 03/15/2023. IT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES. S ENT Σ **IMPROVE** PLAN ROL ONT \mathbf{O} SION DR CITY EROG CITY Λ Ο Ñ R@LLINGWOOD K·FRIESE + ASSOCIATES PUBLIC PROJECT ENGINEERING 1120 S. Capital of Texas Highway CityView 2, Suite 100 Austin, Texas 78746 P - 512.338.1704 F - 512.338.1784 TBPE Firm #6535 www.kfriese.com NOTES NAME DATE SURVEY BY DRAWN BY KT 07/21 DESIGNED BY AF 07/21 CHECKED BY GE 07/21 **REVIEWED BY** 20 40 HORIZONTAL SCALE IN FEET EC102 | 26 o⊧ 32 |

 \overline{O}

	REVISION DESCRIPTION													
	VO. BY DATE													
	THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF INTERIM REVIEW UNDER THE AUTHORITY OF GEOFF ELFERS, P.E. LIC. # 133555 03/15/2023. IT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES.													
	CITY OF ROLLINGWOOD, TEXAS	PUBLIC WORKS	DEPARTMENT				PROPOSED DRAINAGE IMPROVEMENTS				TRAFFIC CONTROL PLAN			HUBBARD-HATLEY_DRAINAGE_IMPROVEMENTS\DGN\SHEETS\0803-C-TC-PLAN.DWG,, COA_ESD.STB
	F	ર્ભ	۶L	.L	IN	10	51	N	0) s _]	
	K+FRIESE + ASSOCIATES PUBLIC PROJECT ENGINEERING 1120 S. Capital of Texas Highway CityView 2, Suite 100 Austin, Texas 78746 P - 512.338.1704 F - 512.338.1784 TBPE Firm #6535 www.kfriese.com						X:\PROJECTS\0803_ROLL							
	<u></u>			S			NA	M	Ε		DA	TE	-	
	SURVEY BY						ł	<t< td=""><td></td><td></td><td>07</td><td>/21</td><td></td><td>Md</td></t<>			07	/21		Md
	DE: CH	SIGI ECI	NE KEI		3Y SY		4	AF GE			07 07	/21	_	23 12:19
	RE	/IE\	٧E	DE	3Y									3/15/20
	0 H(ORI	ZO	NT	AL	50 S(CAI	LE	IN	FE	1 ET	00		
=														ELFERS
	С	T1	0	1		2	28		O	F	3	32)	GEOFFREY

- 1. ALL PROPERTY OWNERS ADJACENT TO CONSTRUCTION MUST HAVE ACCESS TO THEIR PROPERTY AT ALL TIMES.
- 2. SEE COA TRAFFIC CONTROL STANDARDS FOR PLACEMENT OF FLAGGERS AND DETOUR STANDARDS.
- CONTRACTOR MAY USE AN ALTERNATE TRAFFIC CONTROL PLAN PROVIDED THAT PLAN IS SUBMITTED TO THE CITY FOR REVIEW AND APPROVAL.

- 2. FOR LOW-VOLUME APPLICATIONS, A SINGLE FLAGGER MAY BE ADEQUATE. WHERE ONE FLAGGER CAN BE USED, SUCH AS FOR SHORT WORK AREAS ON STRAIGHT ROADWAYS, THE FLAGGER MUST BE VISIBLE TO APPROACHING TRAFFIC FROM BOTH DIRECTIONS. 3. FLAGGERS SHALL USE ONLY STOP/SLOW PADDLE TO DIRECT TRAFFIC UNLESS WORKING IN A SIGNALIZED INTERSECTION WHERE DRIVERS MAY BE CONFUSED BY THE SIGN
- PADDLE. HAND SIGNAL MAY BE USED IN THESE SITUATIONS. 4. FLAGGERS SHALL ENSURE THAT ALL REQUIRED SIGNING IS IN PLACE PRIOR TO
- BEGINNING FLAGGING OPERATIONS. 5. FLAGGERS SHALL NOT PERFORM WORK THAT IS NOT RELATED TO FLAGGING WHILE
- ON DUTY. 6. FLAGGERS MAY CARRY AIR HORNS OR WHISTLES TO WARN WORKERS OF AN
- EMERGENCY CONDITION. 7. FLAGGERS SHALL BE REQUIRED TO USE TWO-WAY RADIOS WHEN OUT OF CLEAR VIEW
- OF EACH OTHER. 8. FLOODLIGHTS SHOULD BE PROVIDED TO MARK FLAGGER STATIONS AT NIGHT AS NEEDED.

SPEED (kmph)	SPEED* (mph)	LENGTH (meters)	LENGTH (feet)
30	20	11	35
40	25	17	55
50	30	26	85
55	35	36	120
65	40	51	170
70	45	66	220
80	50	84	280
90	55	101	335
95	60	125	415
105	65	146	485

DEPARTMENT OF PUBLIC WORKS	FLAGGER SETUP FOR 2 L	ANE ROADWAY
RECORD COPY SIGNED BY BILL GARDNER 03/13/00 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	standard no. 804S-2 3 of 8

				Minimu Taper Me	um Desir Lengths ters (Fee	able (L) et)	Suggest Device S	ed Max. Spacing	Suggested Sign Spacing Meters (Feet)
	Speed KMPH	Posted Speed MPH	Formula	3.0(10) Offset Meters (feet)	3.3(11) Offset Meters (feet)	3.6(12) Offset Meters (feet)	On a taper Meters (feet)	On a tangent Meters (feet)	"X" Dimension
	50	30		45 (150)	50 (165)	55 (180)	9 (30)	15-20 (60-75)	40 (120)
	55	35	$\begin{bmatrix} L = WS^2 \\ 60 \end{bmatrix}$	65 (205)	70 (225)	75 (245)	10 (35)	25-25 (70-90)	50 (160)
	65	40		80 (265)	90 (295)	100 (320)	12 (40)	25-30 (80-100)	75 (240)
	70	45		135 (450)	150 (495)	165 (540)	13 (45)	25-30 (90-110)	100 (320)
	80	50		150 (500)	165 (550)	180 (600)	15 (50)	30-35 (100-125)	120 (400)
	90	55		165 (550)	185 (605)	200 (660)	16 (55)	35-40 (110-140)	150 (500)
	95	60	L=WS	180 (600)	200 (660)	220 (720)	18 (60)	40-45 (120-150)	180 (600)
	105	65		195 (650)	215 (715)	235 (780)	19 (65)	40-50 (130-165)	210 (700)
	115	70		215 (700)	235 (770)	255 (840)	21 (70)	45-55 (140-175)	240 (800)
AFFI N P THE ADD A M A TU M4-	C DETOL REET CL LACE OF JIRED. PLATE DITIONAL RVENING 14-9 DE JRN. O -9 DETC	JR NOTE OSED" A F "ROAD F A STR THE STF MAY HA "DO NC S STREET TOUR SIGN	S: ND "STR CLOSED EET SIGN VE EITHE VE EITHE T ENTER S. GN** WI -LANE S S** MAY	EET CLC "AND " I NAME AE PLAT R A WH SIGNS" TH AN A TREETS, BE LOO	Chann Trailer flashin board Flagge DSED TO ROAD C NAME M E SHOUL ITE-ON- MAY BE SUCH S CATED O	elizing d mounte g arrow er THRU T LOSED T OUNTED D BE PI GREEN (E DESIRA TURN A SIGNS SH N THE F	evices d RAFFIC" O THRU WITH TH ACED A DR A BL BLE AT RROW M IOULD BI AR SIDE	MAY BE U TRAFFIC". E M4-9 D BOVE THE ACK-ON-C INTERSECT AY BE USE OF INTERS	SED ETOUR SIGN** DETOUR SIGN. DRANGE LEGENI IONS WITH ED IN ADVANCE SECTIONS.
TEX	as man	UAL ON	UNIFORM	1 TRAFF	IC CONT	ROL DEV	ICES		
	DEPART	MENT OF F	UBLIC WOF	RKS		LEG	SEND a	nd GENEF	RAL NOTES
RE(CORD CO BY BILL	OPY SIGN Gardne	NED R	03/13/	06 THE RESP	ARCHITECT ONSIBILITY HIS STAND	/ENGINEEF FOR APPI ARD.	ASSUMES ROPRIATE USE	= 804S

REVISION DESCRIPTION								
V. BY DATE								
₩ <u>₽</u> 100%	SU	JB	M	 -			4	
THIS DOO FOR THE R THE GEO I IT IS NO CONSTR PEF	CUME PURF EVIEV E AUT DFF E LIC. # 03/1 OT TC UCTI RMIT	ENT POSI W UI THOF ELFE ± 133 5/20 D BE ON, PUR	IS F E O NDE RITY 23. US BID PO	REL FII R C C FII SE	E/NT DF .E. F NC S.	AS EF		
CITY OF ROLLINGWOOD, TEXAS PUBLIC WORKS DEPARTMENT						TRAFFIC CONTROL DETAILS		
Røli	LIN	GI	N	0	C)]
1120 S. Cc CityView 2, Austin, Te: P - 512.3 TBPE Firm	K • + A PUBL pital (c, Suite (as 78) 38.170 #6535	F S IC PRO of Tex 100 746 4 F	RI OC JECT (as F	ENG High			S 16	
NOTES	BY	N/	AME	Ξ		DA	TE	
DRAWN E	3Y BY		<Τ AF			07	/21 /21	
CHECKED	BY BY	(GE			07	/21	
					<u> </u>			
CT501		29		OF	-	3	32	

EXISTING 2" WATER MAIN TO BE ABANDONED

EXISTING WATER METER TO BE RELOCATED

CONNECT TO EXISTING -WATER SERVICE YARD PIPING

2803 HUBBARD CIRCLE

2803 HUBBARD CIRCLE

INSTALL: 225 LF 1" HDPE SERVICE LINE RELOCATE EXISTING METER FROM BACKYARD TO DOUBLE METER BOX IN FRONT OF PROPERTY CONTRACTOR TO COORDINATE WITH CITY AND PROPERTY OWNER FOR SERVICE LINE ROUTING PRIOR TO STARTING CONSTRUCTION

CONNECT TO EXISTING 6" WATERLINE IN HUBBARD CIRCLE INSTALL: XX LF 2" HDPE SERVICE LINE 1-NEW DOUBLE METER BOX PER DETAIL 520-AW-01B

PROPOSED DRAINAGE INFRASTRUCTURE

2800 HUBBARD CIRCLE

EXISTING PROPERTY LINE

EXISTING FEATURES

	->
• • • • • • _	•• •• •• •• ••
/ /	//
	— -600- — — — — — — — — — — — — — — — — — —
	— -599- — — — — — — — —
	W
]
[-
	G
	— E OH —
	— E UG —
	(\mathcal{M})
	\bigcirc
	\bigcirc
	\frown
	E

CENTERLINE
RIGHT OF WAY LINE
PROPERTY LINE
EASEMENT LINE
BUILDING SETBACK LINE
BACK OF CURB
EDGE OF ASPHALT
EDGE OF CONCRETE
GUTTER
CONCRETE PAVEMENT
DRAINAGE FLOW LINE
DITCH EDGE
WOOD FENCE
MAJOR CONTOURS
MINOR CONTOURS
GRADE BREAK
PAVED PARKING / DRIVEWAY
SLOPE TOP
SLOPE BOTTOM
WASTEWATER LINE
WATER LINE
ROCK WALL
EXISTING RCP PIPE
NATURAL GAS LINE
ELECTRIC OVERHEAD
ELECTRIC UNDERGROUND
GUY WIRE
WATER METER
WATER VALVE
SPRINKLER VALVE
WASTEWATER MANHOLE
CLEANOUT
FIRE HYDRANT
POWER POLE
ELECTRIC JUNCTION BOX
STOP SIGN
MAILBOX
TREE
TREE WELL

NOLAINOS NOISINE NOISIN NOI											
CITY OF ROLLINGWOOD, TEXAS PUBLIC WORKS DEPARTMENT CITY OF ROLLINGWOOD PROPOSED DRAINAGE IMPROVEMENTS WATER SERVICE RELOCATION PLAN											
F	2	J L		N	51	N	C	DC TE)]
TEXAS K+FRIESE + ASSOCIATES PUBLIC PROJECT ENGINEERING 1120 S. Capital of Texas Highway CityView 2, Suite 100 Austin, Texas 78746 P - 512.338.1704 F - 512.338.1784 TBPE Firm #6535											
W	NO	TES			N/	١M	E		DA	TE	
SURVEY BY											
DESIGNED BY					KT AF					,∠1 /21	_
CH		(GE			07	/21				
REVIEWED BY											
C	V1	0	1	3	30)	0	F	3	32	

EXISTING FEATURES

Ç_	
>	
•• •\bullet \bullet\bullet	•• ••
//////	
600	
599	
W	
W	
W	
W	
W G E OH	
W G E OH E UG	
W G E OH E UG (
W G E OH E UG (
W G E OH E UG (
W G E OH E UG ((`````````````````````	
W G E OH E UG (((

CENTERLINE RIGHT OF WAY LINE PROPERTY LINE EASEMENT LINE BUILDING SETBACK LINE BACK OF CURB EDGE OF ASPHALT EDGE OF CONCRETE GUTTER CONCRETE PAVEMENT DRAINAGE FLOW LINE DITCH EDGE WOOD FENCE MAJOR CONTOURS MINOR CONTOURS GRADE BREAK PAVED PARKING / DRIVEWAY SLOPE TOP SLOPE BOTTOM WASTEWATER LINE WATER LINE ROCK WALL EXISTING RCP PIPE NATURAL GAS LINE ELECTRIC OVERHEAD ELECTRIC UNDERGROUND GUY WIRE WATER METER WATER VALVE SPRINKLER VALVE WASTEWATER MANHOLE CLEANOUT FIRE HYDRANT POWER POLE ELECTRIC JUNCTION BOX STOP SIGN MAILBOX TREE TREE WELL

PUBLIC WORKS DEPARTMENT		PROPOSED DRAINAGE IMPROVEMENTS		WATER ABANDONMENT PLAN				
		· · · · ·			X:\PROJECTS\0803_			
		NAME		DAIE				
		кт	+	07/21	┨			
DESIGNED B	Y	AF		07/21				
CHECKED BY	ſ	GE	07/21	23 12::				
REVIEWED B				3/15/20				
0 20 40 HORIZONTAL SCALE IN FEET								
CV102		31 여)F	32	EOFFREY ELFERS			

MATERIALS LIST A. 2" SERVICE CLAMP, SPL WW-264

- B. 2" CORPORATION STOP, SPL WW-68 2" HDPE WATER SERVICE TUBING, SPL WW-65
- 2" BALL VALVE, SPL WW-68
- G. 1" HDPE WATER SERVICE TUBING. SPL WW-65 H. 1" ANGLE METER STOP, SPL WW-68 METER BOX AND LID, SPL WW-145A;
- FOR DUAL 1" METERS: USE TWO SINGLE METER BOXES
- MATERIALS TO BE INSTALLED BY PLUMBER WATER METER PURCHASED FROM AUSTIN WATER
- $\frac{5}{10}$ " AND $\frac{3}{10}$ " METERS: 8 $\frac{1}{10}$ " LONG x $\frac{3}{10}$ " DIA. 1" METERS: 8 ½" LONG x 1" DIA.
- M. PROPERTY OWNER'S CUT OFF VALVE. SPL WW-276 N. PROPERTY OWNER'S CUT OFF VALVE BOX AND LID

NOTES

- INSTALLATION.
- TOP OF METER BOXES SHOULD BE 4" ABOVE GROUND.
- TRAFFIC AREA AND SIDEWALK.
- LOCATED MORE THAN 36" BELOW FINAL GRADE. METER SIZES TO BE SHOWN ON PLANS.
- TO BALL VALVE "D".
- 2' DEPTH OF COVER SECTION OF TUBING.
- COMPRESSION FITTING USED.
- CAST INTO THEM, SPL WW-145A.

DRAFT - NOTICE OF RULE ADOPTION ONL JEFF A. KYLE

2803 HUBBARD CIRCLE FRONT YARD

E. SINGLE SERVICE: 2" MIP X 1" COPPER FLARE FITTING, SPL WW-68 OR DOUBLE SERVICE: 2" MIP X 1" COPPER FLARE WYE. SPL WW-68 1" SWIVEL NUT x 1" COMPRESSION 90° BEND, SPL WW-68

BRASS METER BUSHING - SIZE AS NEEDED TO CONNECT ANGLE METER STOP TO METER BRASS WATER METER COUPLING MALE IPT x SWIVEL COUPLING NUT:

O. TEMPORARY METER SPACER (REQUIRED TO ASSURE METER WILL FIT APPROPRIATELY) P. 1" WOODEN DOWEL (SHOW ADDRESS ON DOWEL USING WATERPROOF MARKER)

SERVICE CLAMP SHALL BE WRAPPED COMPLETELY WITH 8 MIL. POLYETHYLENE FILM, SPL WW-27D. BRANCH CONNECTIONS AND ALL ANGLE METER STOPS MUST BE INSTALLED PRIOR TO ANY METER

PIPING AND TUBING IN STREET RIGHT-OF-WAY SHALL BE BEDDED IN GRANULAR MATERIALS AS REQUIRED BY SECTION 510.3 (14) OF THE CITY OF AUSTIN STANDARD SPECIFICATIONS; BACKFILL ABOVE GRANULAR BEDDING AS REQUIRED BY SECTION 510.3 (25). METER BOX MUST BE BEHIND CURB NEXT TO PROPERTY LINE OR EASEMENT AND OUT OF VEHICULAR

BALL VALVE "D" SHALL NOT BE LOCATED UNDER SIDEWALK, CURB, OR PAVEMENT, AND NOT BE

METER BOX CUT OUTS SHALL NOT EXCEED TWO TIMES THE PIPE DIAMETER. INSTALL METALLIC TRACER TAPE, SPL WW-597, MINIMUM 1' ABOVE TUBING FROM SERVICE CLAMP "A"

10. TUBING SHALL BE PLACED IN A STRAIGHT ALIGNMENT AND ALLOWED TO RELAX AND "SNAKE" LOOSELY IN THE TRENCH. TUBING BEHIND CURB AND GUTTER SHALL BE INSTALLED WITH A MINIMUM

1. 1" TUBING, WHEN BENT, SHALL HAVE A RADIUS NO SMALLER THAN 3'. 2" TUBING, WHEN BENT, SHALL HAVE A RADIUS NO SMALLER THAN 5'. BRASS FITTINGS SHALL NOT BE CONNECTED TO A BENT

12. SOLID, TUBULAR STAINLESS STEEL INSERT STIFFENERS FOR HDPE TUBING SHALL BE USED AT ALL COMPRESSION FITTINGS. INSERT STIFFENERS SHALL BE FROM THE SAME MANUFACTURER AS THE

13. FOR RECLAIMED WATER SERVICES AND METERS. ALL RECLAIMED TUBING SHALL BE MANUFACTURED SOLID PURPLE, SPL WW-65A. ALL APPURTENANCES SHALL BE MANUFACTURED PURPLE IF AVAILABLE. ALL FITTINGS THAT ARE NOT AVAILABLE FROM THE MANUFACTURER IN PURPLE SHALL BE PAINTED PURPLE PER SPL WW-3C. ALL METER BOX LIDS SHALL BE PURPLE AND HAVE "RECLAIMED WATER"

	WATER SERVICE & METER INSTALLATION - 1" & SMALLER METERS								
Y 08/16/2019	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE	STANDARD NO. 520-AW-01B							

STANDARD CONSTRUCTION NOTES

- THE CITY STANDARD CONSTRUCTION SPECIFICATIONS CURRENT AT THE TIME OF BIDDING SHALL COVER MATERIALS AND METHODS USED TO DO THIS WORK.
- 2. THE CONTRACTOR SHALL CONTACT THE AUSTIN AREA "ONE CALL" SYSTEM AT 1-800-344-8377 FOR EXISTING UTILITY LOCATIONS PRIOR TO ANY EXCAVATION IN ADVANCE OF CONSTRUCTION. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES TO BE EXTENDED, TIED TO, OR ALTERED, OR SUBJECT TO DAMAGE/INCONVENIENCE BY THE CONSTRUCTION OPERATIONS. THE CITY OF AUSTIN WATER AND WASTEWATER MAINTENANCE RESPONSIBILITY ENDS AT R.0.W./EASEMENT LINES.
- NO OTHER UTILITY SERVICE/APPURTENANCES SHALL BE PLACED NEAR THE PROPERTY LINE, OR OTHER ASSIGNED LOCATION DESIGNATED FOR WATER AND WASTEWATER 3 UTILITY SERVICE THAT WOULD INTERFERE WITH THE WATER AND WASTEWATER SERVICES.
- THE CITY SPECIFICATION ITEM 509S WILL BE REQUIRED AS A MINIMUM TRENCH SAFETY MEASURE. 4.
- 5. ALL MATERIALS TESTS ORDERED BY THE OWNER FOR QUALITY ASSURANCE PURPOSES, SHALL BE CONDUCTED BY AN INDEPENDENT LABORATORY AND FUNDED BY THE OWNER IN ACCORDANCE WITH CITY STANDARD SPECIFICATION ITEM 1804S.04.
- PRESSURE TAPS SHALL BE ALLOWED ON A CASE BY CASE BASIS, AS DETERMINED BY THE DIRECTOR'S DESIGNEE. NORMALLY PRESSURE TAPS 4 INCHES AND LARGER SHALL 6 BE ALLOWED IN THE FOLLOWING CASES: A) A TEST SHUT OUT INDICATES AN ADEQUATE SHUT OUT TO PERFORM THE WORK IS NOT FEASIBLE B) MORE THAN 30 CUSTOMERS OR A SINGLE CRITICAL CUSTOMER (AS DEFINED BY AUSTIN WATER) WOULD BE IMPACTED BY THE SHUT OUT OR C) THE EXISTING WATER LINE WARRANTS IT.
- THRUST RESTRAINT SHALL BE IN ACCORDANCE WITH CITY STANDARD SPECIFICATION ITEM 510.3(22) AND SPL WW 27-A and WW 27-F. 7.
- WATER LINE TESTING AND STERILIZATION SHALL BE PERFORMED IN ACCORDANCE WITH CITY STANDARD SPECIFICATION ITEMS 510.3 (27)-(29). 8.
- ALL MATERIAL USED ON THIS PROJECT MUST BE LISTED ON THE STANDARD PRODUCTS LISTING. ANY MATERIAL. NOT LISTED HAS TO GO THROUGH THE REVIEW OF THE 9. STANDARDS COMMITTEE FOR REVIEW AND APPROVAL PRIOR TO START OF PROJECT. TESTING AND EVALUATION OF PRODUCTS ARE REQUIRED BEFORE APPROVAL WILL BE GIVEN ANY CONSIDERATION.
- 10. WHEN WATER SERVICES ARE DAMAGED AND THE SERVICE MATERIAL IS PE, THE LINE SHALL BE REPAIRED ONLY BY HEAT FUSION WELD OR REPLACED THE FULL LENGTH WITH TYPE K COPPER MATERIAL. ANY TIME PB IS DAMAGED OR TAMPERED WITH IN ANY WAY, THE SERVICE LINE SHALL BE REPLACED FULL LENGTH WITH TYPE K COPPER MATERIAL. NOTE: FULL LENGTH IS FROM CORPORATION STOP TO METER.
- 11. WHEN AN EXISTING WATERLINE SHUT OUT IS NECESSARY AND POSSIBLE, THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION INSPECTOR WHO WILL THEN NOTIFY AUSTIN WATER DISPATCH AND THE AFFECTED CUSTOMERS A MINIMUM OF SEVENTY-TWO (72) HOURS INI ADVANCE.
- 12. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION INSPECTOR SO THAT HE CAN NOTIFY THE AUSTIN WATER AT972-0000 AT A MINIMUM OF 72 HOURS PRIOR TO RELOCATING ANY DOMESTIC OR FIRE DEMAND WATER METERS. THE CONTRACTOR SHALL CAREFULLY REMOVE ALL METERS AND METERS BOXES THAT ARE INDICATED TO BE RELOCATED OR SALVAGED. THE CONTRACTOR SHALL INSTALL THE REMOVED METER OR CITY PROVIDED METER AT THE NEW LOCATION INDICATED ON THE CONSTRUCTION PLANS.
- 13. WATER AND WASTEWATER SERVICES WILL NEED TO BE REPLACED UP TO THE MAIN. REPAIR COUPLINGS ARE NOT ALLOWED ON NEW INSTALLATIONS.
- 14. THE CONTRACTOR SHALL VERIFY ALL VERTICAL AND HORIZONTAL LOCATIONS OF EXISTING UTILITIES, BELOW GROUND AND OVERHEAD, PRIOR TO STARTING ONSITE UTILITY WORK.
- 15. ALL WATER AND WASTEWATER MAINS SHALL BE INSTALLED IN ACCORDANCE WITH THE SEPARATION DISTANCES INDICATED IN CHAPTER 290 DRINKING WATER STANDARDS, CHAPTER 217 - DESIGN CRITERIA FOR SEWERAGE SYSTEMS AMD CHAPTER 210 - DESIGN CRITERIA FOR RECLAIMED SYSTEMS OF TCEQ RULES.
- 16. CONTRACTOR'S PERSONNEL THAT PERFORM BUTT FUSION AND ELECTROFUSION ON OR TO HDPE PIPE AND FITTINGS MUST HAVE CURRENT QUALIFICATION TRAINING CERTIFICATE ISSUED BY MCELROY OR COMPARABLE TRAINING PROGRAM.
- 17. VALVE STEM EXTENSIONS SHALL CONSIST OF A SINGLE PIECE OF IRON ROD OF THE REQUIRED LENGTH WITH A SOCKET ON ONE END AND NUT ON THE OTHER.
- 18. ALL POTABLE WATER SYSTEM COMPONENTS INSTALLED AFTER JANUARY 4, 2014, SHALL BE ESSENTIALLY "LEAD FREE" ACCORDING TO THE US SAFE DRINKING WATER ACT. EXAMPLES ARE VALVES (CORPORATION STOP, CURB STOP, AND PRESSURE REDUCING), NIPPLES, BUSHINGS, PIPE, FITTINGS, BACKFLOW PREVENTERS AND FIRE HYDRANTS. TAPPING SADDLES AND 2 INCH AND LARGER GATE VALVES ARE THE ONLY COMPONENTS EXEMPT FROM THIS REQUIREMENT. COMPONENTS THAT ARE NOT CLEARLY IDENTIFIED BY THE MANUFACTURER AS MEETING THIS REQUIREMENT EITHER BY MARKINGS ON THE COMPONENT ORON THE PACKAGING SHALL NOT BE INSTALLED.
- 19. ALL EXISTING WATER METERS IDENTIFIED TO BE RELOCATED OR ABANDONED AT THE DEVELOPMENT, SHALL BE REMOVED FROM THE METER BOX PRIOR TO CONSTRUCTION AND GIVEN IMMEDIATELY TO THE CITY.
- 20. THE ENGINEER SHALL CALL OUT THE SIZE, TYPE AND USE (DOMESTIC OR IRRIGATION) OF ALL EXISTING WATER METERS TO BE RELOCATED OR REPURPOSED. WATER METER NUMBERS WILL NOT BE REQUIRED TO BE PLACED ON THE PLAN SHEET.
- 21. NO CONNECTION MAY BE MADE BETWEEN THE PRIVATE PLUMBING AND CITY WATER INFRASTRUCTURE UNTIL A CITY APPROVED WATER METER HAS BEEN INSTALLED.
- 22. METER BOXES AND CLEAN OUTS SHALL NOT BE LOCATED WITHIN PAVED AREAS SUCH AS DRIVEWAYS AND SIDEWALKS.

PROJECT SPECIFIC NOTES:

- 1. CONTRACTOR TO PROVIDE TREE PROTECTION FOR ANY TREE WITHIN 10' OF LIMITS OF WATER RELOCATION WORK.
- 2. LOCATION OF THE EXISTING WATER MAINS AND SERVICES ARE APPROXIMATE. CONTRACTOR OF FILED VERIFY THE LOCATIONS OF EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION AND SHALL NOTIFY ENGINEER IMMEDIATELY IF DISCREPANCIES ARE FOUND.
- 3. CONTRACTOR SHALL COORDINATE WITH ENGINEER, CITY, AND PROPERTY OWNERS ON WATER METER LOCATIONS AND SERVICE ROUTING FROM METER TO THE CONNECTIONS TO THE EXISTING SERVICE LINES. PRIVATE CUSTOMER YARD PIPING SHALL NOT BE LOCATED OUTSIDE OF THE PROPERTY LIMITS THAT IT IS SERVING.
- 4. CONTRACTOR SHALL REMOVE AND REPLACE ALL LANDSCAPING, IRRIGATION LINE, FENCES, GATES, AND OTHER SURFACE FEATURES IMPACTED BY CONSTRUCTION, AND RETURN ALL FEATURES TO EQUAL OR BETTER CONDITIONS THAN EXISTING.
- 5. CONTRACTOR SHALL COORDINATE WITH ENGINEER AND CITY PRIOR TO ABANDONING EXISTING WATER LINES. SUFFICIENT NOTICE MUST BE PROVIDED TO PROPERTY OWNERS BEFORE DISRUPTING SERVICE.
- 6. WATER SERVICE YARD PIPING ON PRIVATE CUSTOMER SIDE OF THE METER MUST BE PERFORMED BY A PLUMBER LICENSED IN THE STATE OF TEXAS. BENDS AND CURVES IN YARD PIPING SHALL CODES AND PIPE MANUFACTURERS RECOMMENDATIONS.
- 7. ASPHALT PAVING, CONCRETE CURB, AND CONCRETE SIDEWALK SHALL BE REPLACED TO MATCH EXISTING CONDITIONS. ASPHALT PAVING SHALL BE SAW-CUT AND REPLACED AT A WIDTH OF 10-FEET. CURB AND SIDEWALK SHALL BE REPLACED TO THE NEAREST JOINT. REMOVAL AND REPLACEMENT OF THESE SURFACE FEATURES ARE SUBSIDIARY TO THE WATER METER RELOCATION BID ITEMS.

2803 HUBBARD CIRCLE BACK YARD

2803 HUBBARD CIRCLE FRONT YARD

2803 HUBBARD CIRCLE BACK YARD

REVISION DESCRIPTION													
BY DATE													
REV. NO.													
100% SUBMITTAL THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF INTERIM REVIEW UNDER THE AUTHORITY OF GEOFF ELFERS, P.E. LIC. # 133555 03/15/2023.													
IT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES.													
CITY OF ROLLINGWOOD, TEXAS	PUBLIC WORKS		CITY OF ROLLINGWOOD ROLLINGWOOD DRAINAGE IMPROVEMENTS						WATER DETAILS				
F	2	۶L	.L	١Þ	10	51	N	0)]	
TEXAS K+FRIESE + ASSOCIATES PUBLIC PROJECT ENGINEERING 1120 S. Capital of Texas Highway CityView 2, Suite 100 Austin, Texas 78746 P - 512.338.1704 F - 512.338.1784 TBPE Firm #6535													
	NO	TE	se.c S	.om		NAME D							ľ
SU	JRV RAV		ł	<t< td=""><td></td><td colspan="4">07/21</td><td> </td></t<>		07/21							
DES	SIG	BY		/	٩F		07/21				10.00 DN		
CH RE\	ECI /IE\	KEI NE	D B	SY SY		(GE			07	/21	_	15/2023
			,	Т									
С		3	32) -	O	F	3	32	•				

CITY OF AUSTIN AUSTIN WATER