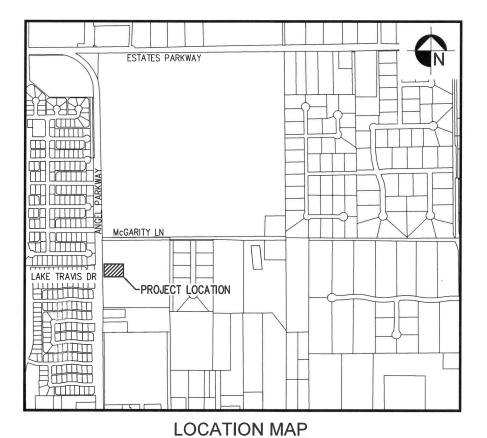
THE CITY OF LUCAS, TEXAS PLANS FOR THE CONSTRUCTION OF WATER, SANITARY SEWER, PAVING, AND DRAINAGE IMPROVEMENTS TO SERVE

LUCAS PLAZA PHASE II



DECEMBER 2018

OWNER/DEVELOPER: LEGACY ALLIANCE 4125 CENTURION PARKWAY, SUITE 100 ADDISON, TEXAS 75001

CONTACT: CHRIS LEAVELL

ENGINEER: HICS KOCHE **KOCHER**

CONTACT: REECE FLANAGAN, PE

APPROVED CITY OF LUCAS

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ABBREVIATIONS BACK OF CURB
CONC CONCRETE
DIA DIAMETER
DR DOOR
DS DOWNSPOUT
E EAST, EASTING
EL ELEVATION
EOC EDGE OF CONCRETI
EOP EDGE OF PAVEMENT
ESMT EASEMENT
EX EXISTING ESMT EASEMENT
EX EXISTING
FC FACE OF CURB
FF FINISHED FLOOR
FF FINISHED FLOOR
FF FINISHED FLOOR
FF FINISHED FLOOR
FF FINISHED GRADE
FH FIRE HYDRANT
FLOW LINE
GR GRADE BREAK
GV GATE VALVE
HC HANDICAP
HORZ HORIZONTAL
HP HIGH POINT
INV INVERT
LP LOW POINT
LSD LANDSCAPE DRAIN
MAX MAXIMUM
MH MANHOLE
MIN MINIMUM
MH MANHOLE
MIN MINIMUM
MH MANHOLE
MIN MINIMUM
MH MANHOLE
ROP PROPOSED
PVC POLYVINYL CHLORIDE
ROP REINFORCE OCNICKE RCP REINFORCED CONCRETE PIPE ROW RIGHT OF WAY SAN SANITARY SS SANITARY SEWER STA STATION
STM STORM
TB THRUST BLOCK

BENCHMARK:

CITY OF ALLEN MONUMENT NO. $1.3-1/2^\circ$ ALUMINUM DISK SET IN CONCRETE, LOCATED 460' \pm WEST OF THE INTERSECTION OF WHITMAN DRIVE AND BETHANY ROAD AT THE EAST END OF BRIDGE IN GRASS MEDIAN. ELEVATION 597.82.





0/11/18 2ND SUBMITTAL 2/04/18 4TH SUBMITTAL

GENERAL NOTES:

I. COORDINATION OF WORK: IT SHALL BE FURNISHED BY THE CONTRACTOR TO COORDINATE HIS WORK WITH ANY PUBLIC OR PRIVATE UTILITY INCAGED IN INSTALLATION OF NEW OR ADJUSTMENT OF EXISTING FACILITIES ON THE PROJECT SITE.

2. BARRICADES AND WARNING SIGNS: BARRICADES AND WARNING SIGNS SHALL BE PLACED IN ACCORDANCE WITH THE CITY OF LUCAS
STANDARDS AND/OR AS DIRECTED BY ENGINEER. CONSTRUCTION OF SIGNING AND BARRICADES SHALL BE DIRECTED BY THE ENGINEER.
CONSTRUCTION OF SIGNING AND BARRICADES SHALL CONFORM WITH "1980 TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, VOLUME 1". 3. ZONING REQUIREMENTS: DURING THE CONSTRUCTION OF THIS PROJECT, THE CONTRACTOR SHALL COMPLY WITH PRESENT ZONING REQUIREMENTS OF THE CITY OF LUCAS IN THE USE OF VACANT PROPERTY FOR STORAGE PURPOSES.

4. DRAINAGE CHANNELS: WHERE SURFACE DRAINAGE CHANNELS ARE TEMPORARILY DISTURBED OR BLOCKED DURING CONSTRUCTION, THEY SHALL BE RESTORED TO THEIR ORIGINAL CONDITION OR GRADE AND CROSS SECTION AFTER THE WORK IS COMPLETED.

5. VENDOR'S CERTIFICATION: ALL MATERIALS USED IN CONSTRUCTION SHALL HAVE A VENDOR'S CERTIFIED TEST REPORT. TEST REPORTS SHALL BE DELIVERED TO THE ENGINEER BEFORE PERMISSION WILL BE GRANTED FOR USE OF THE MATERIAL. ALL VENDOR'S TEST REPORTS SHALL BE SUBJECT TO REVIEW BY THE ENGINEER, AND SHALL BE SUBJECT TO VERIFICATION BY TESTING OF SAMPLES OF MATERIALS AS RECUVED FOR USE ON THE PROJECT. IN THE EVENT ADDITIONAL TESTS ARE REQUIRED, THEY SHALL BE PERFORMED BY AN INDEPENDENT TESTING LABORATORY AND SHALL BE PAID FOR BY THE CONTRACTOR.

6. CLEAN-UP FOR FINAL ACCEPTANCE: THE CONTRACTOR SHALL MAKE A FINAL CLEAN-UP OF ALL PARTS OF THE WORK BEFORE ACCEPTANCE BY THE DEVELOPER OR HIS REPRESENTATIVE. THIS CLEAN-UP SHALL INCLUDE REMOVAL OF ALL OBJECTIONABLE MATERIALS AND, IN GENERAL, PREPARAINE THE SITE OF THE WORK IN ORDERLY MANIER OF APPEARANCE.

7. PROTECTION OF EXISTING UTILITIES AND IMPROVEMENTS: THE CONTRACTOR SHALL TAKE ADEQUATE MEASURES TO PROTECT ALL EXISTING STRUCTURES, IMPROVEMENTS AND UTILITIES WHICH MAY BE ENCOUNTERED.

8. PROPERTY LINES AND MONUMENTS: THE CONTRACTOR SHALL PROTECT ALL PROPERTY CORNER MARKERS, AND WHEN ANY SUCH MARKERS OR MONUMENTS ARE IN DANGER OF BEING DISTURBED, THEY SHALL BE PROPERLY REFERENCED AND IF DISTURBED SHALL BE RESET AT THE EXPENSE OF THE CONTRACTOR.

9. WATER FOR CONSTRUCTION: THE CONTRACTOR SHALL MAKE THE NECESSARY ARRANGEMENTS FOR PURCHASING WATER FROM THE CITY OF

10. PARKING OF CONSTRUCTION EQUIPMENT: AT NIGHT AND DURING ALL OTHER PERIODS OF TIME WHEN EQUIPMENT IS NOT BEING ACTIVELY USED ON THE CONSTRUCTION WORK, THE CONTRACTOR SHALL PARK THE EQUIPMENT AT LOCATIONS WHICH ARE APPROVED BY THE EDVELOPER. THE CONTRACTOR SHALL PROVIDE ADDICATE BERRICADES, MARKES AND LIGHTS TO PROTECT THE DEVELOPER, THE OTHER WORK. ALL BARRICADES, LIGHTS, AND MARKERS MUST MEET THE REQUIREMENTS OF THE CITY, STATE AND FEDERAL REGULATIONS.

11. ACCESS ROUTES, STAGING AREAS AND STORAGE AREAS: ALL HAUL ROADS AND ACCESS ROUTES AND THE LOCATION OF ALL STAGING AREAS AND STORAGE AREAS SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND REPARRING ALL ROADS AND OTHER FACLITIES USED DURING CONSTRUCTION. UPON COMMETCION OF PROJECT ALL EXISTING ROADS SHALL BE LEFT IN A CONDITION EQUAL TO THAT AT THE TIME THE CONTRACTOR COMMENCES WORK ON THIS PROJECT.

12. EXISTING UTILITIES: THE LOCATION AND DIMENSIONS SHOWN ON THE PLANS RELATIVE TO EXISTING UTILITIES ARE BASED ON THE BEST INFORMATION AVAILABLE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS OF ADJACENT AND/OR CONFLICTING UTILITIES SUFFICIENTLY IN ADVANCE OF CONSTRUCTION IN ORDER THATH HE MAY NEGOTIATE SUCH LOCAL ADJASSIFICATISTS AS NECESSARY THE CONSTRUCTION PROCESS TO PROVIDE ADEQUATE CLEARANCES. THE CONTRACTOR SHALL TAKE ALL NECESSARY PREADUTIONS IN ORDER TO PROTECT ALL SERVICES ENCOUNTERED. ANY DAMAGES TO UTILITIES RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED AT HIS EYEPFACE.

13. EXCESS MATERIAL: SUITABLE EXCAVATED MATERIAL SHALL BE DISPOSED OF ON THE SITE AT LOCATIONS DIRECTED BY THE ENGINEER. UNSUITABLE MATERIAL IS DEFINED AS ROCK MEASURING 4" IN THE LARGEST DIMENSION. UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT THE CONTRACTOR'S EXPENSE.

14. TRENCH SAFETY: PER TEXAS HOUSE BILL 1569, EFFECTIVE AS OF SEPTEMBER 1, 1989, IT SHALL BE THE RESPONSIBILITY OF THE CONSTRUCTION CONTRACTOR TO PROVIDE AND MAINTAIN A VABEL TRENCH SAFETY SYSTEM AT ALL TIMES DURING CONSTRUCTION ACTIVITIES. THE CONTRACTOR IS DIRECTED DECOME KNOWLEDGEABLE AND FAMILIAR WITH THE STANDARDS AS SET BY THE COCUPATIONAL SAFETY AND HEALTH ADMINISTRATION'S (OSHA) FOR TRENCH SAFETY THAT WILL BE IN EFFECT DURING THE PERIOD OF CONSTRUCTION ON THIS PROJECT.

15. COORDINATION WITH OTHERS: IN THE EVENT THAT OTHER CONTRACTORS ARE DOING WORK IN THE SAME AREA SIMULTANEOUSLY WITH THIS PROJECT, THE CONTRACTOR SHALL COORDINATE HIS PROPOSED CONSTRUCTION WITH THAT OF THE OTHER CONTRACTORS.

16. COMPLIANCE WITH LAWS: THE CONTRACTOR SHALL FULLY COMPLY WITH ALL LOCAL, STATE, AND FEDERAL LAWS INCLUDING ALL CODES, ORDINANCES AND REGILATIONS APPLICABLE TO THIS CONTRACT AND THE WORK TO BE DONE THEREUNDER, WHICH MAY BE ENACTED LATER BY COVENMENTAL BOOLES HAVING AURISDICTION OF AUTHORITY FOR SUCH ENACTMENT.

17. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, IMPACT AND INSPECTION FEES AND LICENSES NECESSARY FOR THE EXECUTION OF THE WORK AND SHALL FULLY COMPLY WITH ALL THEIR TERMS AND CONDITIONS, WHEREVER THE WORK UNDER THIS CONTRACT REQUIRES THE ORTHWINES OF PERMITS FROM THE CUTY OF LICLOS OF OTHER PUBLIC AUTHORITIES, DUPLICATE COVERS OF SUCH PERMITS SHALL BE FURNISHED TO THE ENGINEER BY THE CONTRACTOR HEREUMOER BEFORE THE WORK COVERED THEREBY IS STARTED. NO WORK WILL BE ALLOWED TO PROCEED BEFORE SUCH PERMITS ARE OBTAINED, ALLOWED TO PROCEED BEFORE SUCH PERMITS ARE OBTAINED. HE WORK REQUIRED UNDER THIS CONTRACT SHALL COMPLY WITH ALL REQUIREMENTS OF LAW, REGULATION, PERMIT OR LICENSE. IF THE CONTRACTOR FINDS THAT THERE IS A VARIANCE, HE SHALL IMMEDIATELY REPORT THIS TO THE DEVELOPER FOR RESOLUTION.

18. REMOVAL OF DEFECTIVE AND UNAUTHORIZED WORK: ALL WORK WHICH HAS BEEN REJECTED OR CONDEMNED SHALL BE REPAIRED; OR IF IT CANNOT BE REPAIRED SATISFACTORILY, IT SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE. DEFECTIVE MATERIALS SHALL BE MINEDIATELY REMOVED FROM THE WORK SITE. WORK DONE BEYOND THE LINE OR NOT IN CONFORMITY MITH THE GRADES SHOWN ON THE DRAWNISS OR AS PROVIDED, MORK DONE WHINDUT PROPER INSPECTION, OR ANY EXITA OR UNCLASSITED WORK DONE WHINDUT WRITTEN AUTHORITY AND PRIOR AGREEMENT IN WRITING AS TO PRICES, SHALL BE AT CONTRACTOR'S RISK, AND WILL BE CONSIDERED UNAUTHORIZED, AND AT THE OPTION OF THE DEVELOPER HAVE NOT BE MEASURED AND PAID FOR AND MAY BE CORREDED REMOVED AT THE CONTRACTOR'S EXPENSE. UPON FAILURE OF THE CONTRACTOR TO REPAIR SATISFACTORILY OR TO REMOVE AND REPLACE, IF SO DIRECTED, REJECTED REMOVED AND WORK OF MATERIALS IMMEDIATELY AFTER RECEIVEND NOTICE FROM THE DEVELOPER, THE DEVELOPER WILL, AFTER GIVING WRITTEN NOTICE TO THE CONTRACTOR, HAVE THE AUTHORITY TO CAUSE DEFECTIVE WORK TO BE REMOVED AND REPLACED, OR TO CAUSE UNAUTHORIZED WORK TO BE REMOVED AND DEPLOYED.

19. DURING CONSTRUCTION: DURING CONSTRUCTION OF THE WORK, THE CONTRACTOR SHALL, AT ALL TIMES, KEEP THE SITE OF THE WORK AND ADJACENT PREMISES AS FREE FROM MATERIAL, DEBRIS AND RUBBISH AS IS PRACTICAL AND SHALL REMOVE SAME FROM ANY PORTION OF THE SITE IF, IN THE OPINION OF THE DECEPTER, SUCH MATERIAL, DEBRIS OR RUBBISH CONSTITUTES A NUISANCE OR IS OBJECTIONABLE. IN CASE OF FAILURE ON THE PART OF THE CONTRACTOR ON MAINTAIN A CLEAN SITE, THE DEVELOPER MAY, UPON 24 HOUR WRITTEN NOTICE, CLEAN THE SITE, AND THE COST THEREOF SHALL BE DEDUCTED FROM ANY MONIES DUE OR TO BECOME DUE TO THE CONTRACTOR UNDER HIS CONTRACT, OR WHERE SUFFICIONIT CONTRACT FUNDS ARE UNAVAILABLE FOR THIS PURPOSE, THE CONTRACTOR OR HIS SURETY SHALL REMBURSE THE DEVELOPER FOR SUCH COST.

20. RECORD DRAWNIGS. EACH CONTRACTOR SHALL MAINTAIN AN ACCURATE RECORD OF THE INSTALLMENT OF ALL MATERIALS AND SYSTEMS BY HIS CONTRACTUAL ARRELMENT. THESE RECORD PRINTS WILL BE REVIEWED BY THE DEVELOPER EACH MONTH PRIOR TO THE PREMIAMARY REVIEW OF THE CONTRACTOR'S REQUEST FOR PAYMENT. IF THE DRAWNISS ARE NOT COMPLETE, ACCURATE AND UP—TO—DATE, THE PAYMENT REQUEST WILL NOT BE ACCEPTED BY THE DEVELOPER. THE COMPLETED SET OF "RECORD" DRAWNISS MUST BE DELIVERED TO THE DEVELOPER BEFORE REQUESTING FINAL PAYMENT.

21. INSPECTION AND TESTING: INSPECTION AND TESTING OF THE PROPOSED CONSTRUCTION WILL BE PROVIDED BY THE DEVELOPER AND/OR THE CITY OF LUCAS. COSTS FOR THE INSPECTION AND TESTING SERVICES WILL BE ASSUMED BY THE DEVELOPER AND/OR THE TOWN.

22. STORM WATER POLLUTION PREVENTION PLAN (SWPPP): THE CONTRACTOR SHALL BE REQUIRED TO COMPLY WITH THE CONDITIONS OF THE SWPPP WHILE CONDUCTING HIS ACTIVITIES ON THIS PROJECT. IN ADDITION TO CONSTRUCTING THOSE ITEMS INDICATED ON THE PLAN SHEETS. COMPLIANCE WITH THE SWPPP INCLUDED CONFORMANCE TO CERTAIN PRACTICES (IDENTIFIED IN THE SWPPP) DIDURING PROJECT CONSTRUCTION. THE CONTRACTOR SHALL BE REQUIRED TO SIGN AND SUBMIT TO ENVIRONMENTAL PROTECTION AGENCY A NOTICE OF INTENT, CONTRACTOR CERTIFICATION AND NOTICE OF TERMINATION, ALLO SHIRM HIS PROVIDED BY THE DEVELOPER. CONTRACTOR SHALL SEND COPIES OF ALL NOTICES (NO'S, NOT'S, BI-MONTHLY INSPECTION REPORTS AND EVENT REPORTS) TO DEVELOPER. ALL REPORTS TO BE FILED DURING THE PAY PERIOD SHALL BE INCLUDED WITH THE PAY APPLICATION BEFORE THE PAY APPLICATION WILL BE PROCESSED . CONTRACTOR SHALL SUBMIT TO DEVELOPER A COPY OF THE COMPLETE SWPPP BINDER WITH THE FINAL PAY APPLICATION. INCLUDE ALL REPORTS, NO'S, AND THE NOT. THE NOT SHALL NOT BE FILED AND THE CONTRACTOR WILL REMAIN RESPONSIBLE UNTIL FINAL PAYMENT IS MADE.

FLOODPLAIN NOTE ACCORDING TO MAP NO. 48085C0405J, DATED JUNE 2, 2009 OF THE NATIONAL FLOOD INSURANCE PROGRAM MAP, FLOOD INSURANCE RATE MAP OF COLLIN COUNTY, TEXAS, FEDERAL EMERGENCY MANAGEMENT AGENCY, FEDERAL INSURANCE ADMINISTRATION, THIS PROPERTY IS WITHIN ZONE "X" (SHADED) AND IS NOT WITHIN A SPECIAL FLOOD HAZARD AREA.

> NORTH BETHANY LAKES ESTATES

BLOCK H, LQT 15
RICHARD J. AND REBECCA
CROOKSTON
ZONED: R-5

ALLEN CITY LIMITS

LAKE TRAVIS DRIVE (A 50' PUBLIC ROW)

NORTH BETHANY LAKES ESTATES BLOCK G, LOT 1

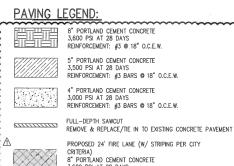
DAVID AND VICKIE LYNN

COE ZONED: R-5 ALLEN CITY LIMITS

	ABBREVIATI	ONS	3
CI	CURB INLET	PR	PROPOSED
ESI/IT	EASEMENT	R	RADIUS
EX	EXISTING	RGW	RIGHT OF WAY
FDÇ	FIRE DEPARTMENT CONNECTION	SS	SANITARY SEWER
FF	FINISHED FLOOR	SSCO	SANITARY SEWER CLEANOUT
FH	FIRE HYDRANT	WU	WATER METER
MIN	MINIMUM	W	WATER

ABBREVIATI	ONS		_	PAVING
T	PR	PROPOSED	~	
	R	RADIUS	7	
	ROW	RIGHT OF WAY	. ?	
RTMENT CONNECTION	SS	SANITARY SEWER	A {	
LOOR	SSCO	SANITARY SEWER CLEANOUT	_(
ANT	WU	WATER METER	(V711:111:
	W	WATER	(V////////
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			}	Te 2017 1 1 1 1 1 1 1 1

COSERVE ESM



REINFORCEMENT: #4 BARS @ 18" O.C.E.W.

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G:

20' BUILDING SETBACK

EX BLDG _/

20° BUILDING SETBACK

LOT 2, BLOCK A LUCAS PLAZA ADDITION

LEGEND:	PROPOSED	EXISTING		
CONTOURS	588-590	-588-590		
SANITARY SEWER		SS	ARKWAY	McGARITY LN
SANITARY SEWER SERVICE			ARK	
WATER	w			
STORM DRAIN GAS	SD		A SECOND	
FIRE HYDRANT				l
MANHOLE	Ŧ	Υ ο		
SANITARY SEWER CLEANOUT	•		LAKE TRAVIS DR	
ADA CURB RAMP	R			
	(Manac)		TITTO	PROJECT LOCATION
				-FROMECT LOCATION
		· l		
			1.0	OCATION MAP
			<u>—</u>	0 0

-	PARKWAY	McGARITY LN	NC A
_			Г
near .	LAKE TRAVIS DR	PROJECT LOCATION	

N.T.S.

SITE DATA TABLE ZONING: PROPOSED USE: C - COMMERCIAL COMMERCIAL USE LOT AREA: TOTAL BUILDING AREA BUILDING HEIGHT: 35 - MAX FT 14.5% 2,790 SF 54,870 SF LOT COVERAGE: ROW DEDICATION PARKING REQUIRED: (1 SPACE PER 200 SF) ACCESSIBLE PARKING PROVIDED: PERVIOUS AREA 12,954 SF IMPERVIOUS AREA

REVISIONS

REVISED PAVEMENT THICKNESSES & ADDED NOTE 12/17/2018

12/11/2018

REVISED FIRE LANE THICKNESS TO 7

NOTES:

- 1. ALL DIMENSIONS ARE TO THE FACE OF CURB WHERE APPLICABLE. 2. ALL PARKING ISLAND RADII SHALL BE 2' UNLESS NOTED
- OTHERWISE. 3. CONTRACTOR SHALL REFER TO BUILDING PLANS FOR ACTUAL BUILDING DIMENSIONS. DIMENSIONS SHOWN ARE TO OUTSIDE FACE OF BUILDING.

NOTES:

REFER TO REPORT OF GEOTECHNICAL EXPLORATION, FOR LUCAS PLAZA PHASE II, AND CITY DESIGN CRITERIA FOR PAVEMENT AND SUBGRADE SPECIFICATIONS. IF ANY DISCREPANCIES EXIST BETWEEN THESE PLANS, THE GEOTECHNICAL REPORT, AND CITY CRITERIA, THE CITY CRITERIA GOVERNS.

ADA NOTES:

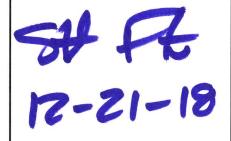
CONTRACTOR TO ASSURE SITE ADA ACCESS AREAS AND ROUTES

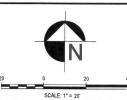
- WITHIN:

 a. ASSURE THE RUNNING SLOPE AT THE WALKS ALONG THE ACCESSIBLE ROUTE HAVE A RUNNING SLOPE OF 1:20 OR 5% MAXIMUM (EXCEPT AT THE CURB RAMPS, WHICH CAN BE UP TO 1:12 OR 8.33%) AND A CROSS SLOPE OF 1:48 OR 2% MAXIMUM. THIS INCLUDES AT THE CROSSING OF DRIVE LANES (A COMMON
- ISSUE).

 b. ASSURE THE MANEUVERING CLEARANCE AT THE EXTERIOR SIDE OF ALL ENTRY DOORS HAVE A SLOPE OF 1:48 OR 2% MAXIMUM IN ANY DIRECTION.

 ASSURE A 30" X48" CLEAR FLOOR SPACE IS PROVIDED ADJACENT
- TO THE EXTERIOR SITE ELEMENTS SUCH AS THE BENCHES, TRASH CANS AND BIKE RACKS AND HAVE A SLOPE OF 1:48 OR 2% MAXIMUM IN ANY DIRECTION.







C2 OF C13



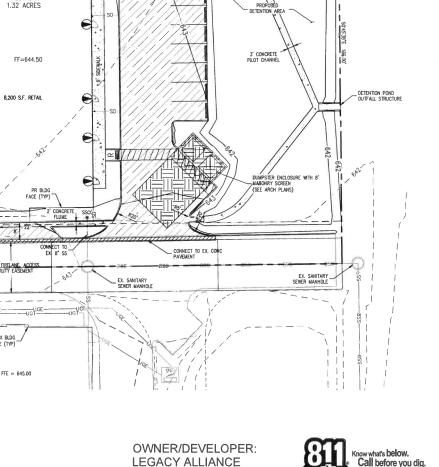
HARRIS KOCHER SMITH

101 Summit Avenue, Suite 1014
Fort Worth, Texas 76102
Fort Worth, Texas 76102
Fort Worth, Texas 76102
Fort Total Transformation of The Firm No. F-15504
The Firm No. F-15504

LUCAS PLAZA PHASE II

SITE PLAN LOT 2, BLOCK A **LUCAS PLAZA ADDITION**

DESIGNED: KDA PROJECT # ISSUE DATE CHECKED: MRF 180833 12/17/2018



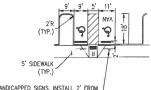
LEGACY ALLIANCE

4125 Centurion Way, Ste. 100 PHONE: 214-731-3133 CONTACT: Chris Leavell



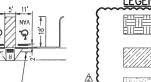
CALL 3 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER

UTILITIES.



HANDICAPPED SIGNS, INSTALL 2' FROM BACK OF CURB (TYP. EACH SPACE). SIGNAGE SHALL BE IN ACCORDANCE TO-SECTIONS 216 AND 703 OF THE TEXAS ACCESSIBILITY STANDARDS (TAS) 2012

TYPICAL PARKING DETAIL



REINFORCEMENT: #3 @ 18" O.C.E.W. 5" PORTLAND CEMENT CONCRETE 3,500 PSI AT 28 DAYS REINFORCEMENT: #3 BARS @ 18" O.C.E.W. 4" PORTLAND CEMENT CONCRETE 3,000 PSI AT 28 DAYS REINFORCEMENT: #3 BARS @ 18" O.C.E.W.

8" PORTLAND CEMENT CONCRETE 3,600 PSI AT 28 DAYS

FULL-DEPTH SAWCUT REMOVE & REPLACE/TIE IN TO EXISTING CONCRETE PAVEMENT ADA CURB RAMP



PROPOSED 24' FIRE LANE (W/ STRIPING PER CITY CRITERIA)
8" PORTLAND CEMENT CONCRETE
3,600 PSI AT 28 DAYS REINFORCEMENT: #4 BARS @ 18" O.C.E.W.

1		2' CURB OPENNO	PENNINGTON PARTNERS, LTD. VO. 5184, R. 61, 1102 D.R.C.C.T. TURN DOWN CURB SEE DETAIL SHEET CS) 1186 1186 1186	°
	EX. ROW LINE (TYP)	2' SDEWALK SCUPPER WY METAL PLAY (SEE DETAIL SHET) (SEE DETAIL SHE	67.4°	EX. PROP BRIDY (17P)
NORTH BETHANY LAKES ESTATES BLOCK H, LOT 15 RICHARD J, ABOR REBECCA CROCKSTON ZOND: R-5 ALLEN CITY LIMITS	ANGEL PARKWAY (A VARIABLE WIDTH PUBLIC ROW)	OSERVE ESVIT PR 15' PR 15' DEDICATION ESVIT COSERVE ESVIT (TO BE ABAND) (TOP)	FROPOSE SINGLE STORY BLDG	CONCRETE WHEEL STOP (TYP) CONCRETE BOLLARD (TYP) (SEE DETAIL SHEET C4)
	LAKE TRAVIS DRIVE (A 50' PUBLIC ROW)	NTWHO ESIST	PR BLDG OVERHANG (TYP) 13.37 13.37 22 CONCRETE FLUME PLUME PLUME PROPRIED TO VERY SAMULT, REMOVE & DISPOSE OF EXIST CONC. PMIT. EX 24 FREIABE ACCESS & UTILITY EASEMENT EX CONCRETE FLUME PROPRIED TO VERY SAMULT, REMOVE & DISPOSE OF EXIST CONC. PMIT. EX 24 FREIABE ACCESS & UTILITY EASEMENT EX CONCRETE FLUME PROPRIED TO VERY SAMULT, REMOVE & DISPOSE OF EXIST CONC. PMIT. EX 24 FREIABE ACCESS TO VERY SAMULT, REMOVE & DISPOSE OF EXIST CONC. PMIT. EX 25 CONCRETE TO VERY SAMULT, REMOVE & DISPOSE OF EXIST CONC. PMIT. EX 24 FREIABE ACCESS TO VERY SAMULT, REMOVE & DISPOSE OF EXIST CONC. PMIT. EX 25 CONCRETE TO VERY SAMULT, REMOVE & DISPOSE OF EXIST CONC. PMIT. EX 26 CONCRETE TO VERY SAMULT, REMOVE & DISPOSE OF EXIST CONC. PMIT. EX 26 CONCRETE TO VERY SAMULT, REMOVE & DISPOSE OF EXIST CONC. PMIT. EX 26 CONCRETE TO VERY SAMULT, REMOVE & DISPOSE OF EXIST CONC. PMIT. EX 26 CONCRETE TO VERY SAMULT, REMOVE & DISPOSE OF EXIST CONC. PMIT. EX 26 CONCRETE TO VERY SAMULT, REMOVE & DISPOSE OF EXIST CONC. PMIT. EX 26 CONCRETE TO VERY SAMULT, REMOVE & DISPOSE OF EXIST CONC. PMIT. EX 26 CONCRETE TO VERY SAMULT, REMOVE & DISPOSE OF EXIST CONC. PMIT. EX 26 CONCRETE TO VERY SAMULT, REMOVE & DISPOSE OF EXIST CONCRETE TO VERY SAMULT, REMOVE & DISPOSE OF EXIST CONCRETE TO VERY SAMULT, REMOVE & DISPOSE OF EXIST CONCRETE TO VERY SAMULT, REMOVE & DISPOSE OF EXIST CONCRETE TO VERY SAMULT, REMOVE & DISPOSE OF EXIST CONCRETE TO VERY SAMULT, REMOVE & DISPOSE OF EXIST CONCRETE TO VERY SAMULT, REMOVE & DISPOSE OF EXIST CONCRETE TO VERY SAMULT, REMOVE & DISPOSE OF EXIST CONCRETE TO VERY SAMULT, REMOVE & DISPOSE OF EXIST CONCRETE TO VERY SAMULT, REMOVE & DISPOSE OF EXIST CONCRETE TO VERY SAMULT, REMOVE & DISPOSE OF EXIST CONCRETE TO VERY SAMULT, REMOVE & DISPOSE OF EXIST CONCRETE TO VERY SAMULT, REMOVE & DISPOSE OF EXIST CONCRETE TO VERY SAMULT, REMOVE & DISPOSE OF EXIST CONCRETE TO VERY SAMULT, REMOVE & DISPOSE OF EXIST CONCRETE TO VERY SAMULT, REMOVE & DISPOSE OF EXIST CONCRETE TO VERY SAMULT, REMOVE & DISPOSE OF EXIST CONCRETE	
NORTH BETMANY LAKS ESTATES BLOCK G, LOT 1 ADAD AND VOKEL TWN COE ZONED: R-5 ALLEN CITY LIMITS			EX BLDG (LUCAS PLAZA PHASE I)	·



CALL 3 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

	REVISIONS	
NO.	DESCRIPTION	DATE
	REVISED FIRE LANE THICKNESS TO 7"	12/11/2018
A	REVISED PAVEMENT THICKNESSES	12/17/2018

GENERAL NOTES:

1. REFER TO REPORT OF GEOTECHNICAL EXPLORATION, FOR LUCAS PLAZA PHASE II, AND CITY DESIGN CRITERIA FOR PAVEMENT AND SUBGRADE SPECIFICATIONS. IF ANY DISCREPANCIES EXIST BETWERN THESE PLANS, THE GEOTECHNICAL REPORT, AND CITY CRITERIA, THE CITY CRITERIA

- COVERNS.

 2. ALL STRIPING AND SIGNAGE MUST CONFORM TO THE CITY OF LUCAS SIGNAGE CRITERIA.

 3. CONTRACTOR IS TO VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION, SHALL ASSUME RESPONSIBILITY FOR REPAIRS TO EXISTING FACILITIES DAMAGED BY CONTRACTOR'S ACTIVITIES.

PAYING NOTES:

1. THE SUBGRADE SHALL BE PROOF-ROLLED WITH HEAVY PNEUMATIC EQUIPMENT, ANY SOFT OR PUMPING AREAS SHALL BE EXCAVATED TO FIRM SUBGRADE AND BACKFILLED AND RECOMPACTED FOLLOWING THE

FIRM SUBGRADE AND BACKFILLED AND RECOMPACTED FOLLOWING THE MASS GRADING REQUIREMENTS. THE SUBGRADE SHOULD BE UNIFORMLY COMPACTED TO A MINIMUM OF 95 PERCENT OF ASTIM DOBS BETWEEN O TO 4 PERCENT OF THE OPTIMUM MOISTURE CONTENT DETERMINED BY THAT TEST. IT SHOULD BE PROTECTED AND MAINTAINED IN A MOIST CONDITION UNTIL THE PAYEMENT IS PLACED.

- PAVEMENT JOINTING NOTES:

 1. SAW CUTTING SHALL BE DONE WITHIN 8 HOURS OF POUR OR AS SOON AS CONCRETE CAN SUPPORT WEIGHT, AND PROVIDE A NEAT CUT WHICH IS TRUE IN ALIGNMENT.

 2. ALL JOINTS ARE TO CONTINUE THROUGH THE CURB.

 3. RADIAL JOINTS SHOULD BE NO GREATER THAN 18".

 4. ALL CONSTRUCTION JOINTS SHALL BE SAWED CLEANED OF DEBRIS, BLOWN DRY AND IMMEDIATELY SCALED.

- BLOWN DRY AND IMMEDIATELY SEALED.

 ODD SHAPED PANELS SHALL BE REINFORCED WITH #3 BARS AT 18"
 EACH WAY. AN ODD SHAPED PANEL IS CONSIDERED TO BE ONE IN
 WHICH THE SLAB TAPERS TO A SHARP ANGLE WHEN THE LENGTH TO
 WIDTH RATIO EXCEEDS 3 TO 1 OR WHEN A SLAB IS NEITHER SQUARE
 OR RECTANGLE.

LAYOUT & DIMENSION CONTROL NOTES:

- ALL DIMENSIONS ARE TO FACE OF CURB WHERE APPLICABLE UNLESS OTHERWISE NOTED.
- 2. ALL CURB RADII ARE 2.0' (FACE OF CURB) UNLESS NOTED OTHERWISE.

- 2. ALL CURB RADII ARE 2.0" (FACE OF CURB) UNLESS NOTED OTHERWISE.

 3. PARKING PROVIDED: 42 TOTAL (INCLUDING 2 HANDLOR)

 4. ALL WORK SHALL CONFORM TO THESE PLANS AND CONTRACT DOCUMENTS

 AND THE INTERNATIONAL BUILDING COCE.

 5. CONTRACTOR SHALL REFER TO BUILDING COE.

 5. CONTRACTOR SHALL REFER TO BUILDING COE.

 6. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT CURB RAMPS ARE.
- THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT CURB RAMPS ARE INSTALLED IN CONFORMANCE WITH ALL APPLICABLE LOCAL, SITE A MO/OR FEDERAL REQULATIONS AND STANDARDS INCLUDING BUT NOT LIMITED TO, THE AMERICANS WITH DISABILITIES ACT (AND). THE FAIR HOLDING ACT (FHA) AND THE AMERICAN MATIONAL STANDARDS INSTITUTE (AMS). THE BOUNDARY WILL BE MOMBMENTED PRIOR TO THE STATE OF CONSTRUCTION. CONTRACTOR SHALL LOCATE AND VERIFY THE BOUNDARY MONLIMENTATION AND THE PROJECT BENCHMARK PRIOR TO COMMENCING CONSTRUCTION. THE BOUNDARY MONLIMENTATION SHALL BE USED AS HORIZONTAL PROJECT CONTRACTOR WITH STANDARD WITH CONTRACTOR DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR MUST NOTIFY THE OWNER OF MISSING OR CONFILCTION MONUMENTATION PHASES OF CONSTRUCTION. THE CONTRACTOR MUST NOTIFY THE OWNER OF MISSING OR CONFLICTING MONUMENTATION PRIOR TO COMMENCING CONSTRUCTION.

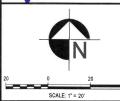
ADA NOTES:

- IN TOTICS.

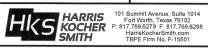
 IN THIN:

 O. ASSURE THE RUNNING SLOPE AT THE WALKS ALONG THE ACCESSIBLE ROUTE HAVE A RUNNING SLOPE OF 1:20 OR 5% MAXIMUM (EXCEPT AT THE CURB RAMPS, WHICH CAN BE UP TO 1:12 OR 8.33%) AND A CROSS SLOPE OF 1:48 OR 2% MAXIMUM. THIS INCLUDES AT THE CROSSING OF DRIVE LANES (A COMMON ISSUE)
- ISSUE).
 b. ASSURE THE MANEUVERING CLEARANCE AT THE EXTERIOR SIDE OF ALL ENTRY DOORS HAVE A SLOPE OF 1:48 OR 2% MAXIMUM IN ANY DIRECTION.
- ANY DIRECTION.
 ASSURE A 30" X48" CLEAR FLOOR SPACE IS PROVIDED ADJACENT
 TO THE EXTERIOR SITE ELEMENTS SUCH AS THE BENCHES, TRASH
 CANS AND BIKE RACKS AND HAVE A SLOPE OF 1:48 OR 2%
 MAXIMUM IN XP DIRECTION.





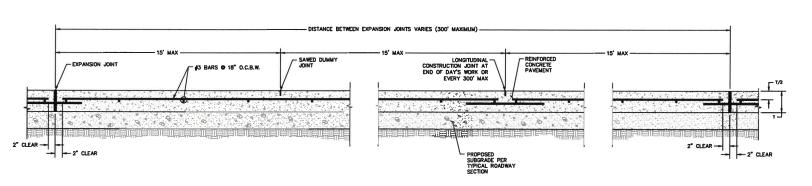




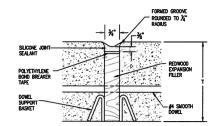
LUCAS PLAZA PHASE II

DIMENSION CONTROL & PAVING PLAN

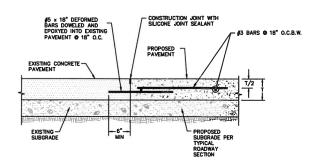
DESIGNED: KDA PROJECT # ISSUE DATE: SHEET CHECKED: MRF DRAWN: DFW 12/17/2018 180833 C3 of C13



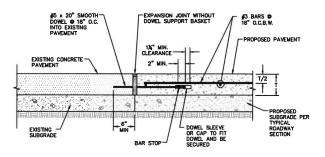
LONGITUDINAL PAVING SECTION



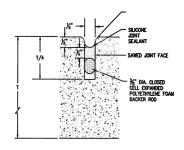
REDWOOD EXPANSION JOINT



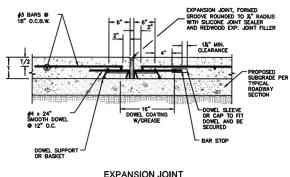
CONSTRUCTION JOINT (BETWEEN EXISTING AND PROPOSED PAVEMENT)



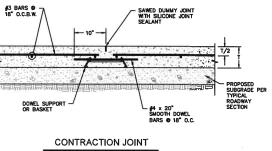
EXPANSION CONSTRUCTION JOINT (BETWEEN EXISTING AND PROPOSED PAVEMENT)



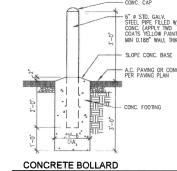
SAWED JOINT DETAIL



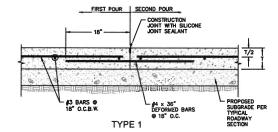


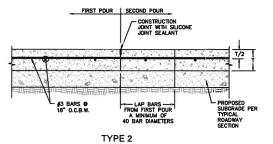


SCALE: N.T.S.

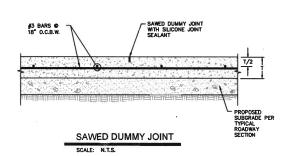


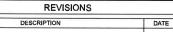
SCALE: N.T.S.





CONSTRUCTION JOINT SCALE: N.T.S.





GENERAL NOTES:

1. REPER TO REPORT OF GEOTECHNICAL EXPLORATION, FOR LUCAS PLAZA PHASE II FOR PAVEMENT AND SUBGRADE SPECIFICATIONS. IF ANY DISCREPANCIES EXIST BETWEEN THISE PLANS AND THE GEOTECHNICAL REPORT, THE REPORT SHALL GOVERN.

2. ALL PAVING WORK SHALL COMPLY WITH CITY OF LUCAS CONSTRUCTION STANDARDS.

12-21-18

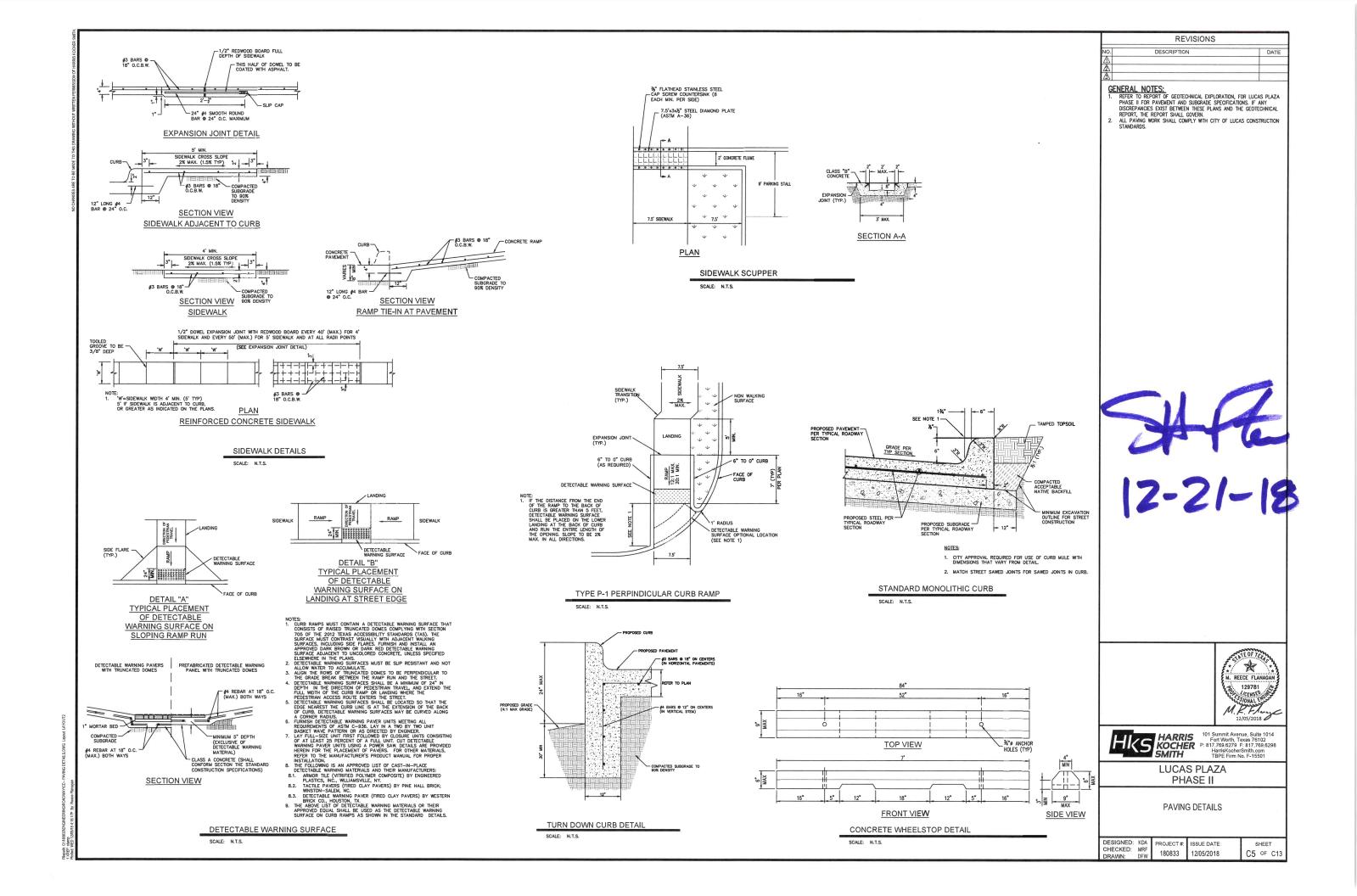


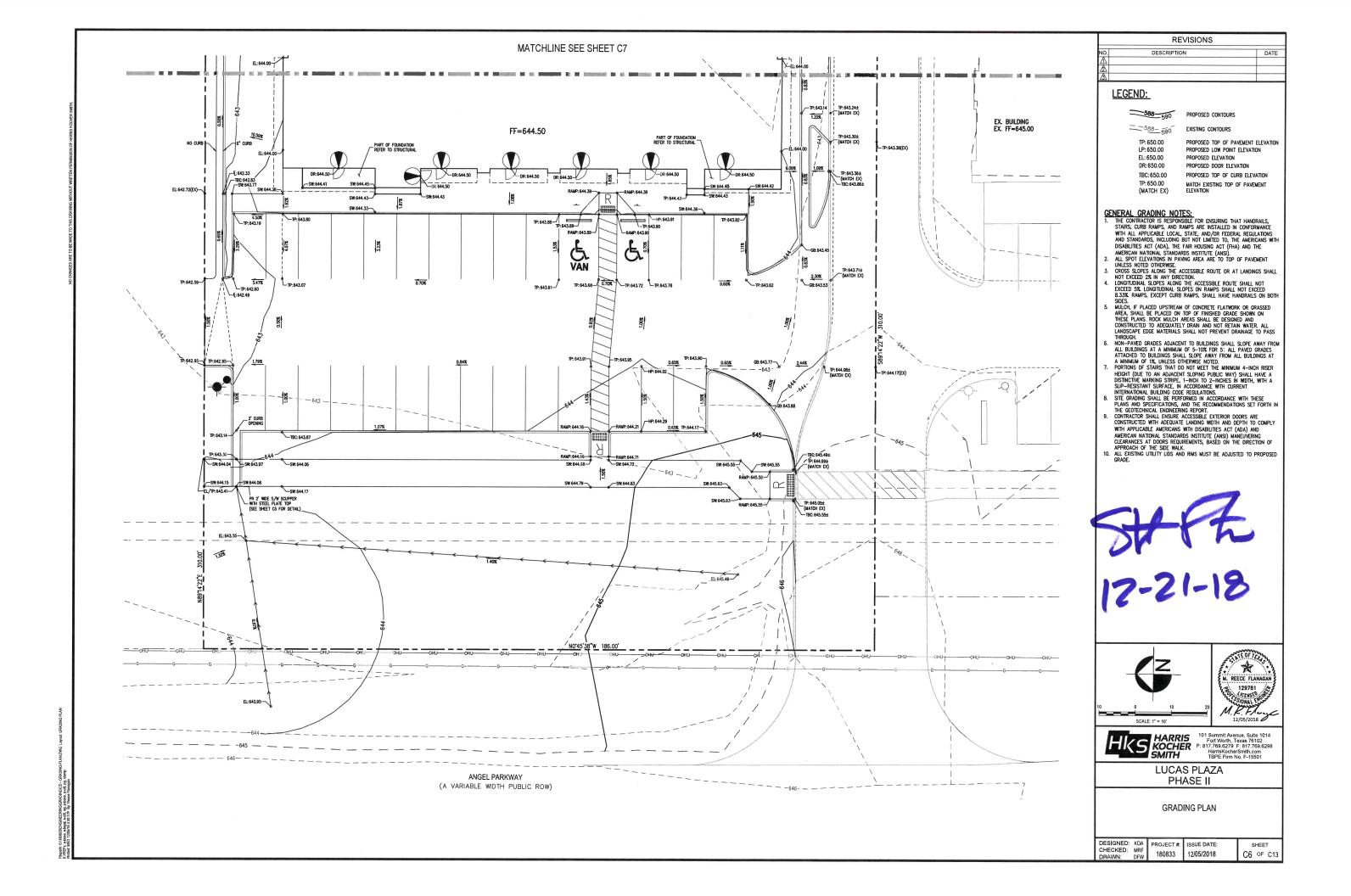


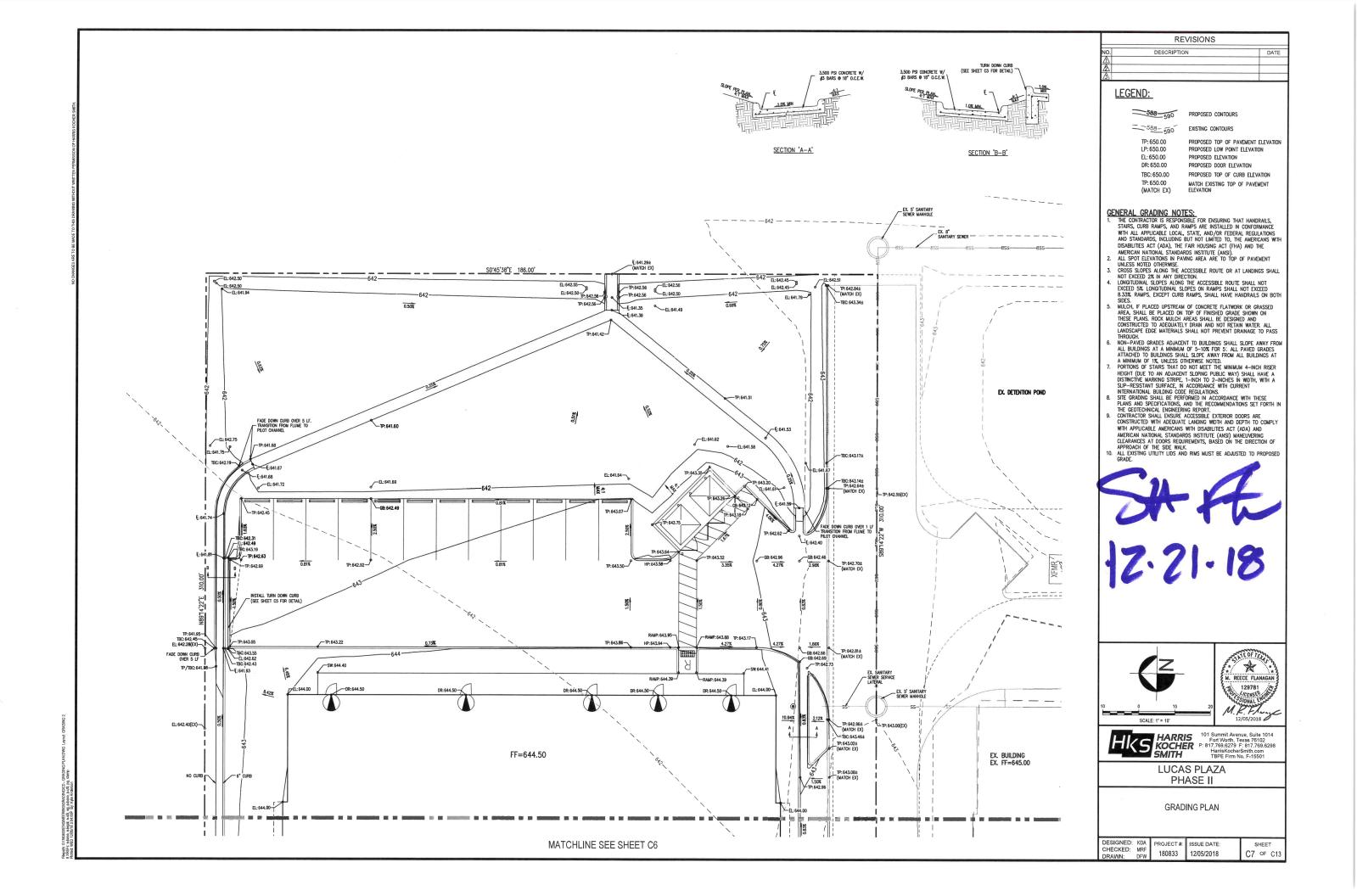
LUCAS PLAZA PHASE II

PAVING DETAILS

DESIGNED: KDA
CHECKED: MRF
DRAWN: DFW PROJECT#: ISSUE DATE: 180833 12/05/2018 C4 OF C13









REVISIONS DESCRIPTION DATE

LEGEND:

EXISTING CONTOURS

<u>--588-590</u>

MAJOR DRAINAGE DIVIDE MINOR DRAINAGE DIVIDE FLOW ARROW

SX-18 12.21.18

FLOODPLAIN NOTE

FLOODPLAIN NOTE

ACCORDING TO MAP NO. 488SCOMOSI, DATED JUNE 2, 2009 OF THE

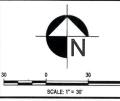
NATIONAL FLOOR INSURANCE PROGRAM MAP, FLOOD INSURANCE RATE

MAP OF COLLIN COUNTY, TEXAS, FEDERAL EMERGENCY MANAGEMENT

AGENCY, FEDERAL INSURANCE ADMINISTRATION, THIS PROPERTY IS

WITHIN ZONE "X" (SHADED) AND IS NOT WITHIN A SPECIAL FLOOD

HAZARD AREA.





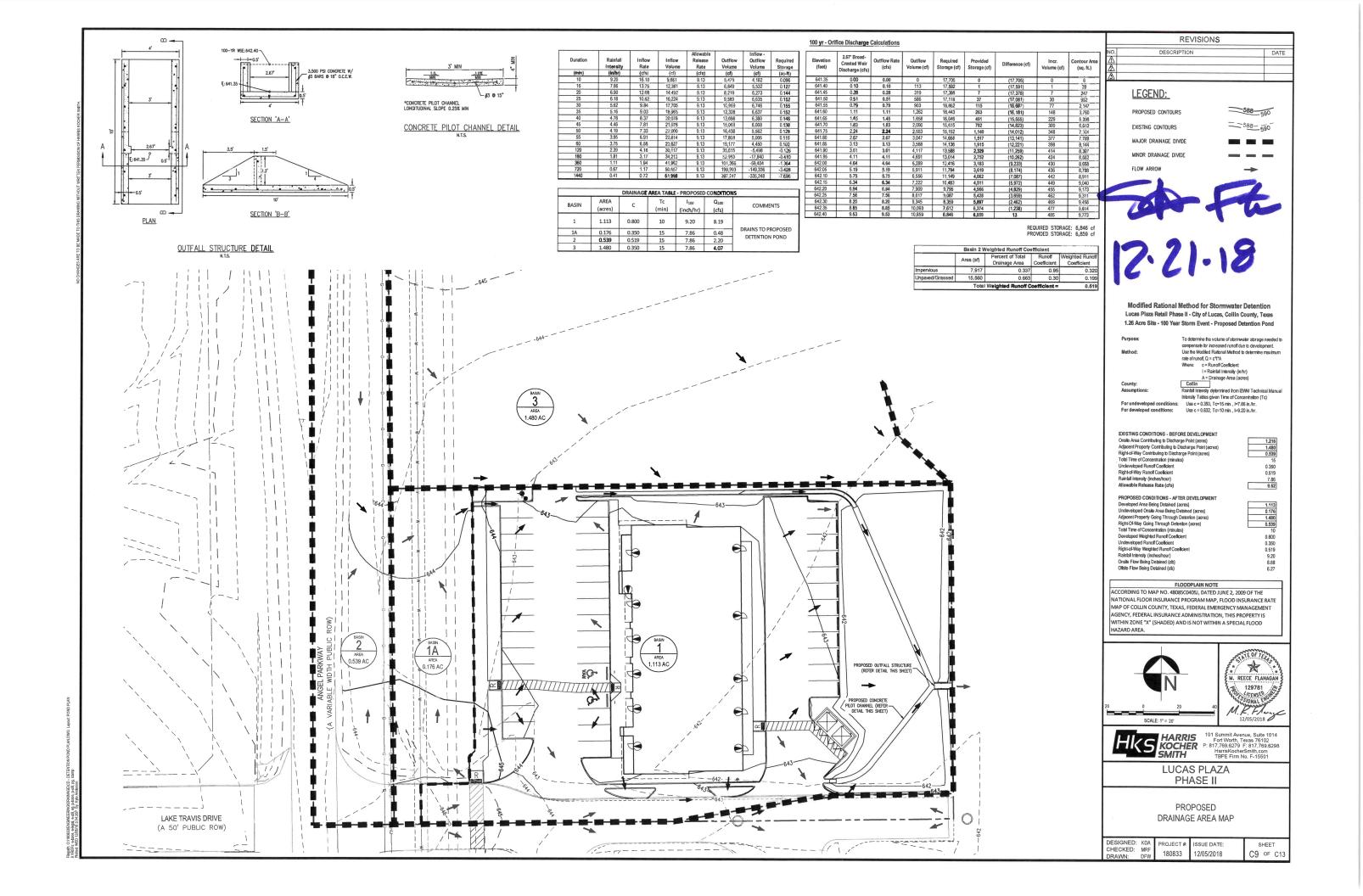


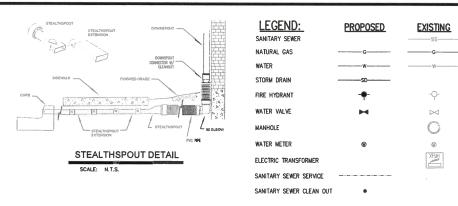
LUCAS PLAZA PHASE II

EXISTING DRAINAGE AREA MAP

DESIGNED: KDA CHECKED: MRF DRAWN: DFW PROJECT#: ISSUE DATE: 180833 12/05/2018

C8 OF C13

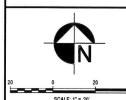




NO.	DESCRIPTION	DATE
Λ		
A		

NOTES:

1) DOWNSPOUT LOCATIONS SHOWN ARE APPROXIMATE. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS.





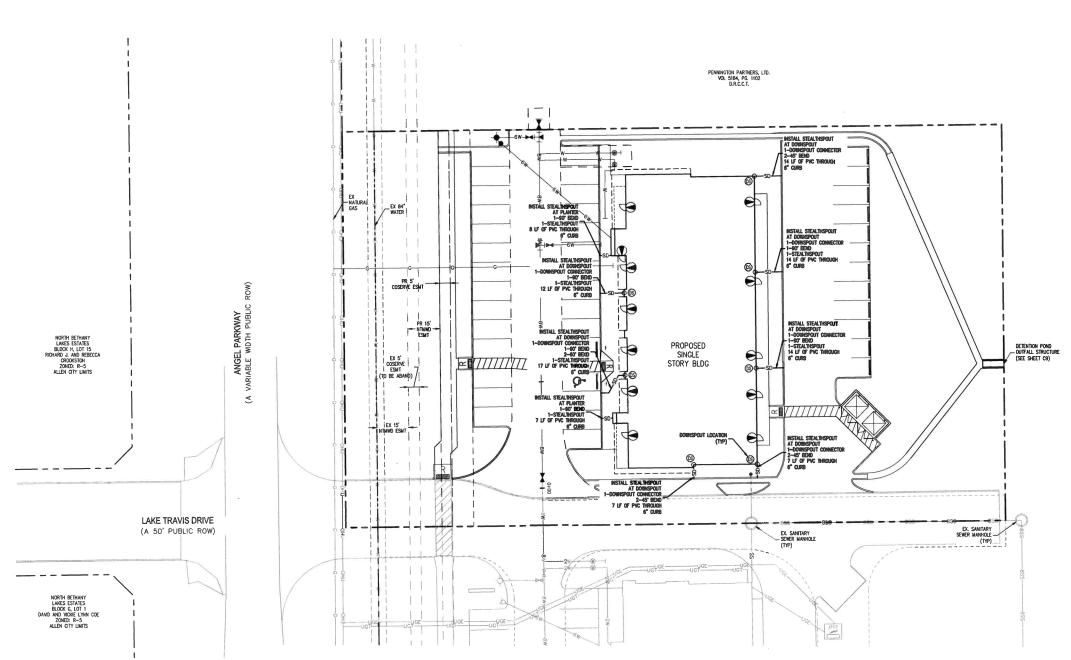


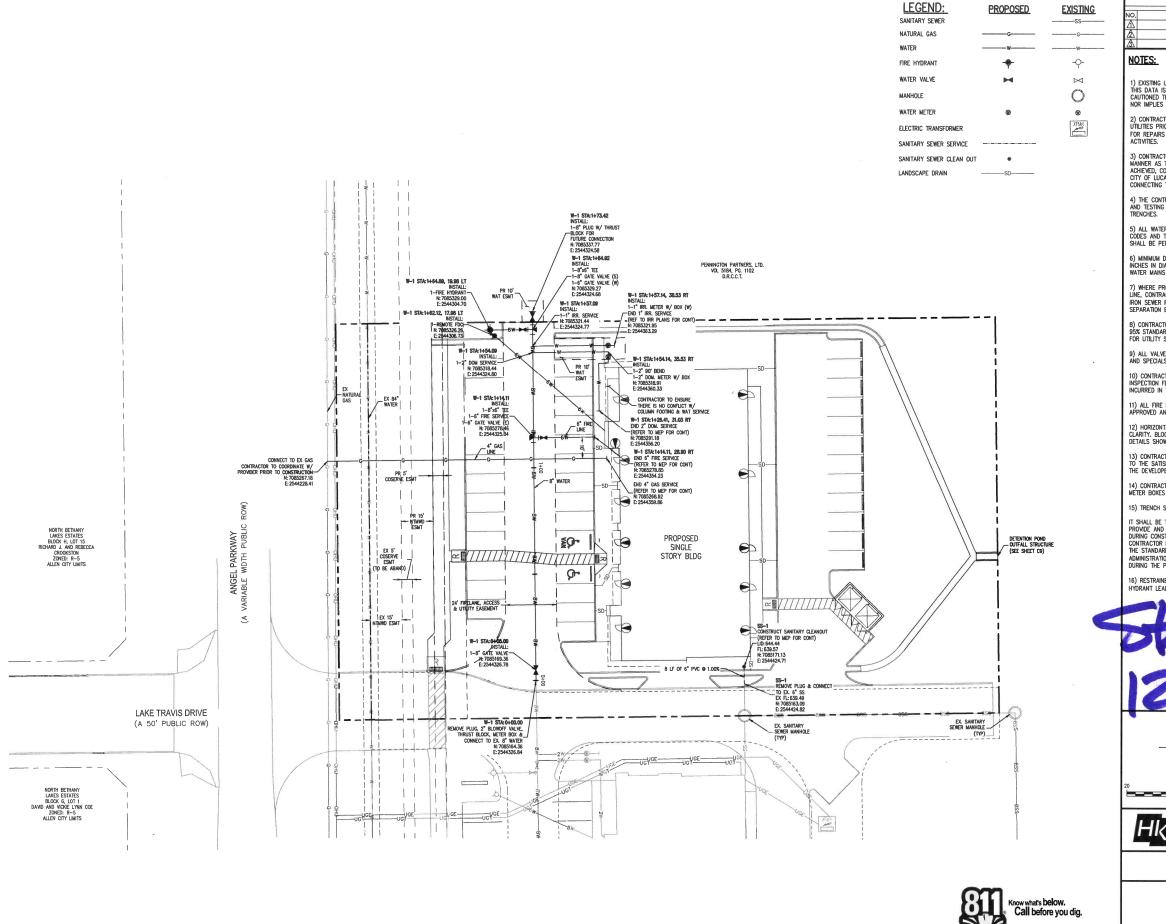
CALL 3 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

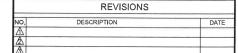
LUCAS PLAZA PHASE II

LANDSCAPE DRAIN PLAN

DESIGNED: KD	A PROJECT#	ISSUE DATE:	SHEET
	180833	12/05/2018	C10 of 0







2) CONTRACTOR IS TO VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION, AND SHALL ASSUME RESPONSIBILITY FOR REPAIRS TO EXISTING FACILITIES DAMAGED BY CONTRACTOR'S

3) CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO AVOID CONFLICTS AND TO ASSURE PROPER DEPTHS ARE ACHIEVED, CONTRACTOR SHALL ADHERE TO THE CROUREMENTS OF THE CITY OF LUCAS AND SHALL COORDINATE WITH THE CITY PRIOR TO CONNECTING TO EXISTING PUBLIC UTILITIES.

4) THE CONTRACTOR SHALL, ON ALL UTILITIES, COORDINATE INSPECTION AND TESTING WITH THE APPROPRIATE AUTHORITIES PRIOR TO BACKFILLING TRENCHES.

5) ALL WATER SHALL CONFORM TO APPLICABLE CITY OF LUCAS PLUMBING CODES AND TO THE CITY OF LUCAS STANDARDS AND SPECIFICATIONS AND SHALL BE PERFORMED UNDER A PERMIT ISSUED BY THE CITY OF LUCAS.

6) MINIMUM DEPTH OF COVER OVER ALL WATER MAINS SMALLER THAN 12 INCHES IN DIAMETER SHALL BE 4 FEET. MINIMUM DEPTH OF COVER FOR WATER MAINS 12 INCHES AND LARGER SHALL BE 5 FEET.

7) WHERE PROPOSED WATER LINE CROSSES A PROPOSED SANITARY SEWER LINE, CONTRACTOR SHALL CENTER ONE JOINT OF DUCTILE IRON OR CAST IRON SEWER PIPE ON THE WATER LINE AND PROVIDE A MINIMUM OF 1.5' SEPARATION BETWEEN THE LINES.

8) CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING COMPACTION TO 95% STANDARD PROCTOR IN AREAS EXCAVATED AT THE BUILDING FOOTINGS FOR UTILITY SERVICE ENTRIES.

9) ALL VALVES, DUCTILE IRON PIPE, CAST IRON PIPE, CAST IRON FITTINGS, AND SPECIALS, SHALL BE POLYETHYLENE WRAPPED.

10) CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS, IMPACT AND INSPECTION FEES, ANY CITY FEES AND LICENSES, AND ALL OTHER COSTS INCURRED IN THE INSTALLATION OF UTILITIES.

11) ALL FIRE PROTECTION MAINS AND APPURTENANCES SHALL BE APPROVED AND PERMITTED BY THE CITY OF LUCAS FIRE DEPARTMENT.

12) HORIZONTAL BLOCKING FOR WATER LINES HAS BEEN OMITTED FOR CLARITY. BLOCKING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS SHOWN IN THESE PLANS.

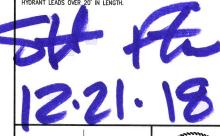
13) CONTRACTOR SHALL CONDUCT A PRESSURE TEST OF ALL FIRE LINES TO THE SATISFACTION OF THE FIRE MARSHALL OF THE CITY OF LUCAS AND THE DEVELOPERS INSURANCE CARRIER.

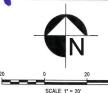
14) CONTRACTOR IS RESPONSIBLE FOR ADJUSTING ALL VALVE BOXES AND METER BOXES TO FINAL GRADE.

15) TRENCH SAFETY:

IT SHALL BE THE RESPONSIBILITY OF THE CONSTRUCTION CONTRACTOR TO PROVIDE AND MAINTAIN A MABLE TRENCH SAFETY SYSTEM AT TIMES DURING CONSTRUCTION ACTIVITIES — PER TEXAS HOUSE BILL 1559. THE CONTRACTOR IS DIRECTED TO BECOME KNOWLEDGEABLE AND FAMILIAR WITH THE STANDANDS AS SET BY THE OCCUPATIONS SAFETY AND HEALTH ADMINISTRATIONS'S (OSHA) FICE OCCUPATIONS SAFETY WILL BE IN EFFECT DURING THE PERIOD OF CONSTRUCTION OF THE PROJECT.

16) RESTRAINER GLANDS MUST BE INSTALLED ON ALL BENDS AND FIRE







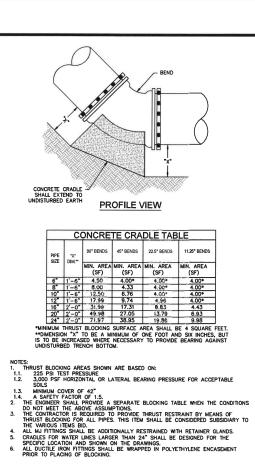


CALL 3 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

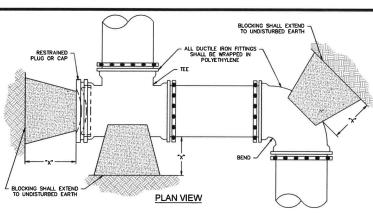
LUCAS PLAZA PHASE II

UTILITY PLAN

DESIGNED: KDA PROJECT #. ISSUE DATE: CHECKED: MRF 180833 12/05/2018 C11 OF C13



CONCRETE CRADLE



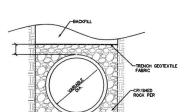
	HOR	IZONTA	L THRU	ST BLO	CKING T	ABLE
PIPE SIZE	"X" DIM.**	PLUGS, TEES, DEAD-ENDS	90* BENDS	45* BENDS	22.5* BENDS	11.25* BENDS
WIL.		MIN. AREA (SF)	MIN. AREA (SF)	MIN. AREA (SF)	MIN. AREA (SF)	MIN. AREA (SF)
6"	1'-6"	4.00*	4.50	4.00*	4.00*	4.00*
8"	1'6"	5.65	8.00	4.33	4.00°	4.00*
10"	1'-6"	8.84	12.50	6.76	4.00*	4.00*
12"	1'-6"	12.72	17.99	9.74	4.96	4.00*
16"	2'-0"	22.62	31.99	17.31	8.83	4.43
20"	2'-0"	35.34	49.98	27.05	13.79	6.93
24"	2'-0"	50.89	71.97	36.95	19.86	9.98

*MINIMUM THRUST BLOCKING SURFACE AREA SHALL BE 4 SQUARE FEET.
**DIMENSION "X" TO BE A MINIMUM OF ONE FOOT AND SIX INCHES, BUT IS TO BE
INCREASED WHERE NECESSARY TO PROVIDE BEARING AGAINST UNDISTURBED TRENCH

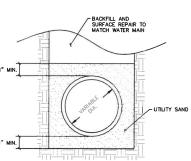
SCALE: N.T.S.

- 3. SOILS
 3. MINIMUM COVER OF 42"
 4. A SAFETY FACTOR OF 1.5.
 THE ENDINESE SHALL PROMDE A SEPARATE BLOCKING TABLE WHEN THE CONDITIONS DO NOT MEET THE ABOVE ASSUMPTIONS.
 THE THIRD HEADER ASSUMPTIONS.
 THE THIRD HEADER ASSUMPTIONS.
 THIRD HEADER ASSUMPTIONS.
 THIRD HEADER ASSUMPTIONS.
 THE CONTROL OF THE ABOVE ASSUMPTIONS.
 THE VARIOUS ITEMS BUT ALL PIPE. THIS ITEM SHALL BE CONSIDERED SUBSIDIARY TO THE VARIOUS ITEMS BUT ALL PIPE. THIS SHALL BE ADDITIONALLY RESTRAINED WITH RETAINER CLANDS.
 BLOCKING FOR WATER LINES LARGER THAN 24" SHALL BE DESIGNED FOR THE SPECIFIC LOCATION AND SHOWN ON THE DRAWNINGS.
 ALL DUCTLIE RON HITHINGS SHALL BE WRAPPED IN POLYETHYLENE ENCASEMENT PRIOR TO PLACING OF BLOCKING.

HORIZONTAL THRUST BLOCKING



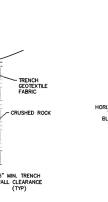
EMBEDMENT FOR SANITARY SEWER

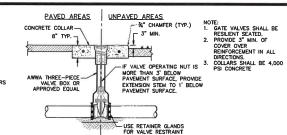


EMBEDMENT FOR WATER SERVICES

UTILITY SAND

EMBEDMENT FOR WATER SERVICES





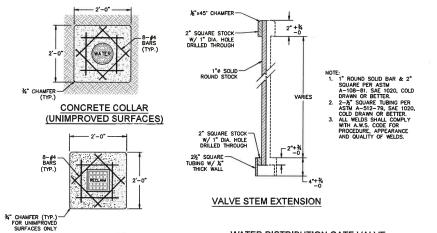
GATE VALVE

CONCRETE COLLAR

(ASPHALT)

CONCRETE COLLAR

(RECLAIMED WATER ALL LOCATIONS)



WATER DISTRIBUTION GATE VALVE & BOX (12" AND SMALLER)

SAND EMBEDMENT

ELEVATION VIEW

CRUSHED ROCK

- RETAINER GLAND

STANDARD FIRE HYDRANT (STRAIGHT)

SCALE: N.T.S.

- HORIZONTAL THRUST BLOCKING - PAVEMENT OR OTHER SURFACE FIRE HYDRANT PLAN VIEW - 3'-0" FROM BACK OF CURB (MAX. 9') BACKFILL SAME AS WATER MAIN BREAKER RING W/BREAKER STEM

4 - #3 BARS

NOTE:

1. DO NOT LOCATE FIRE
HYDRANT IN SIDEWALK.
2. PROWIDE FOUR (4) FOOT
CLEARANCE AROUND FIRE
HYDRANT.
3. EXTENSION SECTIONS MAY BE
USED AS REQUIRED AND
INSTALLED AS PER
MANNELOTIONS
AND SECTIONS
4. FOR CONCRETE PRESSURE PIPE
OR BURIED STEEL PIPE,
PROVIDE AN ISOLATION KIT
AND WAX PETROLATUM TAPE
COATING

RETAINER GLAND





HARRIS
101 Summit Avenue, Suite 1014
Fort Worth, Texas 76102
P. 817.769.6279 F: 817.769.6298

LUCAS PLAZA PHASE II

REVISIONS

CONTRACTOR SHALL COMPLY WITH THE CITY OF LUCAS WATER SYSTEM IMPROVEMENTS GUIDELINES/STANDARDS. IF THERE ARE ANY DISCREPANCIES/CONFLICTS BETWEEN THESE DETAILS AND CITY
GUIDELINES/STANDARDS THE ENGINEER SHALL BE NOTIFIED
IMMEDIATELY.

DESCRIPTION

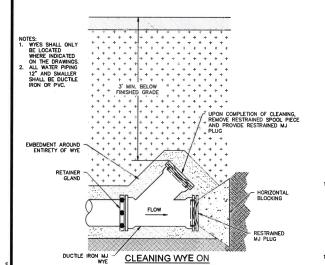
WATER NOTES:

DATE

WATER & SANITARY

SEWER DETAILS

PROJECT #: ISSUE DATE: SHEET CHECKED: MRF 180833 12/05/2018 C12 of C13



NON-LOOPED WATER

SERVICE

STANDARD CLEANING WYE FOR WATER DISTRIBUTION PIPE (12" AND SMALLER) SCALE: N.T.S.

SCALE: N.T.S.

