LEGEND © Electrical Manhole → Fire Hydrant Telephone Manhole © Gas Manhole Telephone Pedestal △ Traverse Point ■ Water Meter [→] Guy Anchor Iron Pipe Found Water Valve Blackjack Tree Iron Rod Set 🛛 Cedar Tree × Light Pole ♦ Elm Tree Power Pole Mesquite Sewer Clean—Out ₩ Pine Tree Sewer Manhole Sprinkler Head Post Oak Storm Drain Manhole ≪ Water Oak Tree ■ Street Sign Station - Top of Curb Elevation Proposed Drainage Structure No Indicates Proposed Water Structure Identifier Indicates Proposed Water Service Line Number Indicates Proposed Sewer Structure Identifier Indicates Proposed Sewer Service Line Number Ambulatory Ramp Prop. Handicapped Parking Sign Straw Bale Barrier Inlet Protection Prop. Drainage Structure w/Culvert Inlet Protection Prop. Inlet / Storm Drain Drainage Flow $\rightarrow \longrightarrow \longrightarrow \longrightarrow$ T Drainage Ditch Indicated Drainage Flow w/Straw Bale Barrier —— G—— — Gas Line — — Telephone Cable — — Fo— Fiber Optics Cable OE—OE—OE—Overhead Electrical Line —— —— Underground Electric Line Prop. Waterline & Fire Hydrant - Ex. Ground Contour Line — Prop. Finish Grade Contour ARREVIATIONS

	ABBREVI	AHUI	<u> 15</u>
COP Δ Ø DIA DIP ELEV. E.O.P. EX F.F FH	BUILDING CORNER BENCHMARK CUBIC FEET PER SECOND CENTERLINE CORRUGATED METAL PIPE CONCRETE CENTERED ON PROPERTY LINE DELTA DIAMETER DIAMETER DUCTILE IRON PIPE ELEVATION EDGE OF PAVEMENT EXISTING FINISHED FLOOR FIRE HYDRANT LOW LINE FOOT (FEET) GALVANIZED HIGH POINT HYDRAULIC GRADE LINE INCH	± PC PRC PC PRO. PT.E.E. PVC R.O.W. SF SY STD. SW TBM TC TG	PLUS OR MINUS POINT OF CURVATURE POINT OF REVERSE CURVATURE POINT OF COMPOUND CURVATUR PROPERTY LINE PROPOSED POINT OF TANGENCY PUBLIC DRAINAGE EASEMENT PUBLIC UTILITY EASEMENT POLYVINYL CHLORIDE RADIUS RIGHT OF WAY STORM DRAIN SQUARE FEET SEWER SERVICE SQUARE YARD STATION STANDARD SIDEWALK TOP OF BOX CORNER TEMPORARY BENCHMARK TOP OF CURB TOP OF GRATE
LP MH	LINEAR FEET LOW POINT MANHOLE	TI TMH	TOP OF INLET TOP OF MANHOLE
MIN.	MINIMUM	TP TS	TOP OF PAVEMENT
MISC. NG		TEL.	TELEPHONE
N.T.S.	NOT TO SCALE	VPC	
0C	ON CENTER FACIL WAY	VPI VPT	VERTICAL POINT OF INTERSECTION VERTICAL POINT OF TANGENCY

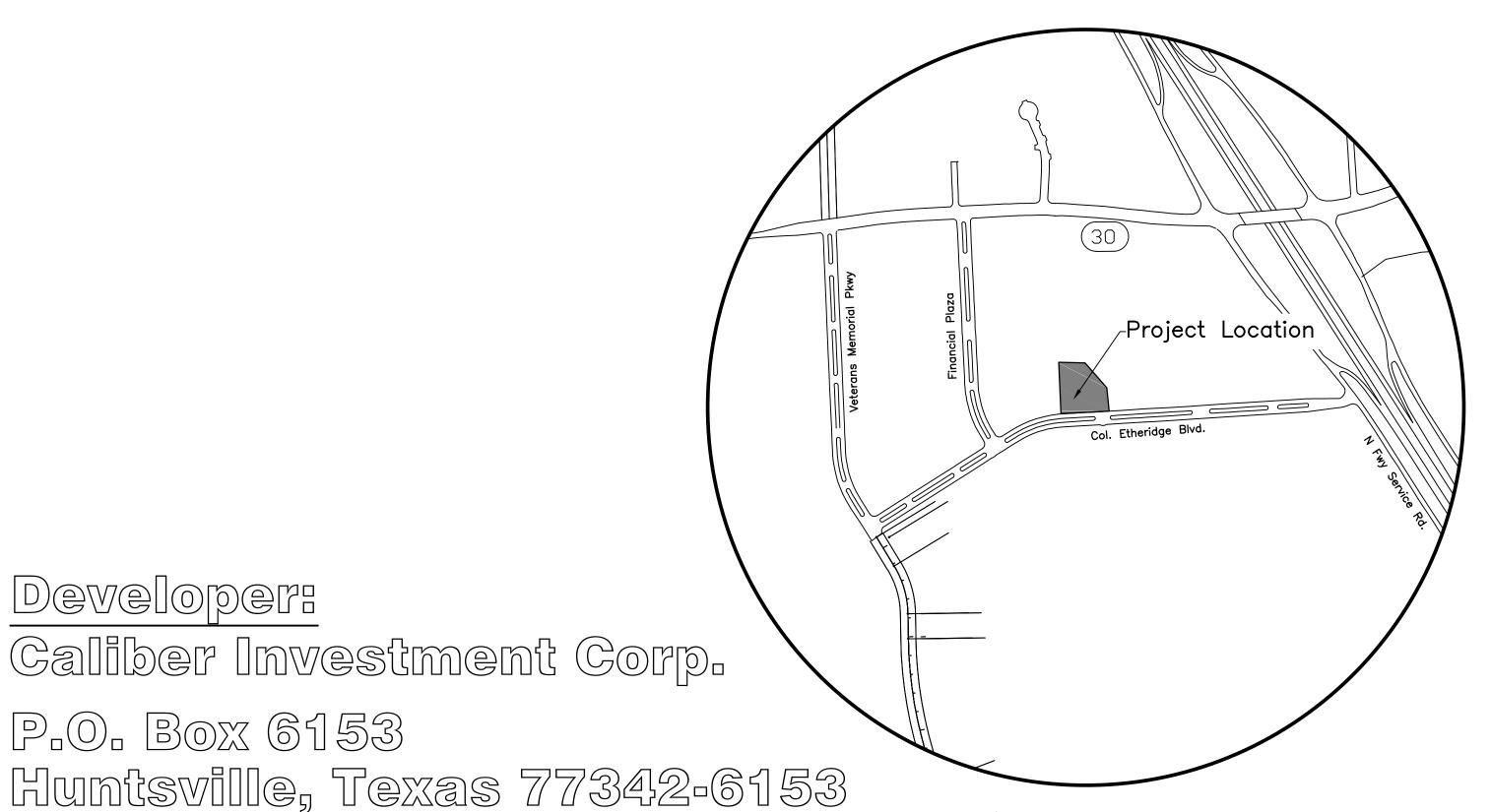
OUTSIDE DIAMETER

PROPOSED PARKING AND UTILITY IMPROVEMENTS

WEST HILL - M FREEW/AY

HUNTSVILLE, WALKER COUNTY, TEXAS

AUGUST 2021



VICINITY MAP

Prepared By:

P.O. Box 6153

((936))291-7552

Developer:

McClure & Browne Engineering/Surveying, Inc. 1008 Woodcreek Drive, Suite 103 College Station, Texas 77845 ((979)) 693-3838

ENGINEERING DEPARTMENT CITY OF HUNTSVILLE, TX REVIEWED FOR CONSTRUCTION PERMIT

This review of the submitted drawings and documents does not relieve the owners, developers, engineers, contractors, and their representatives from their individual or f every item in the submitted drawings and documents and does not prevent the City

	<u>Sheet List</u>
C0.0	Cover Sheet and Index
C0.1	Final Plat
C0.2	Final Plat
C1.1	Overall Site Plan
C1.2	Parking and Striping Plan
C1.3	Overall Parking Plan
C2.1	Erosion Control Plan
C2.2	Existing Topographic Survey and Demolition Plan
C3.1	Site Grading Quadrant 1
C3.2	Site Grading Quadrant 2
C3.3	Site Grading Quadrant 3
C3.4	Site Grading Quadrant 4
C4.1	Storm Drain SD-1 Plan and Profile
C5.1	Sanitary Sewer SE-1 Plan and Profile
C6.1	Water Line WA-1 Plan and Profile
C7.1	General Construction and Paving Details
C7.2	General Construction and Paving Details
C7.3	Sanitary Sewer Construction Details
C7.4	Water Line Construction Details
C7.5	Water Line Construction Details
C7.6	Storm Sewer Construction Details

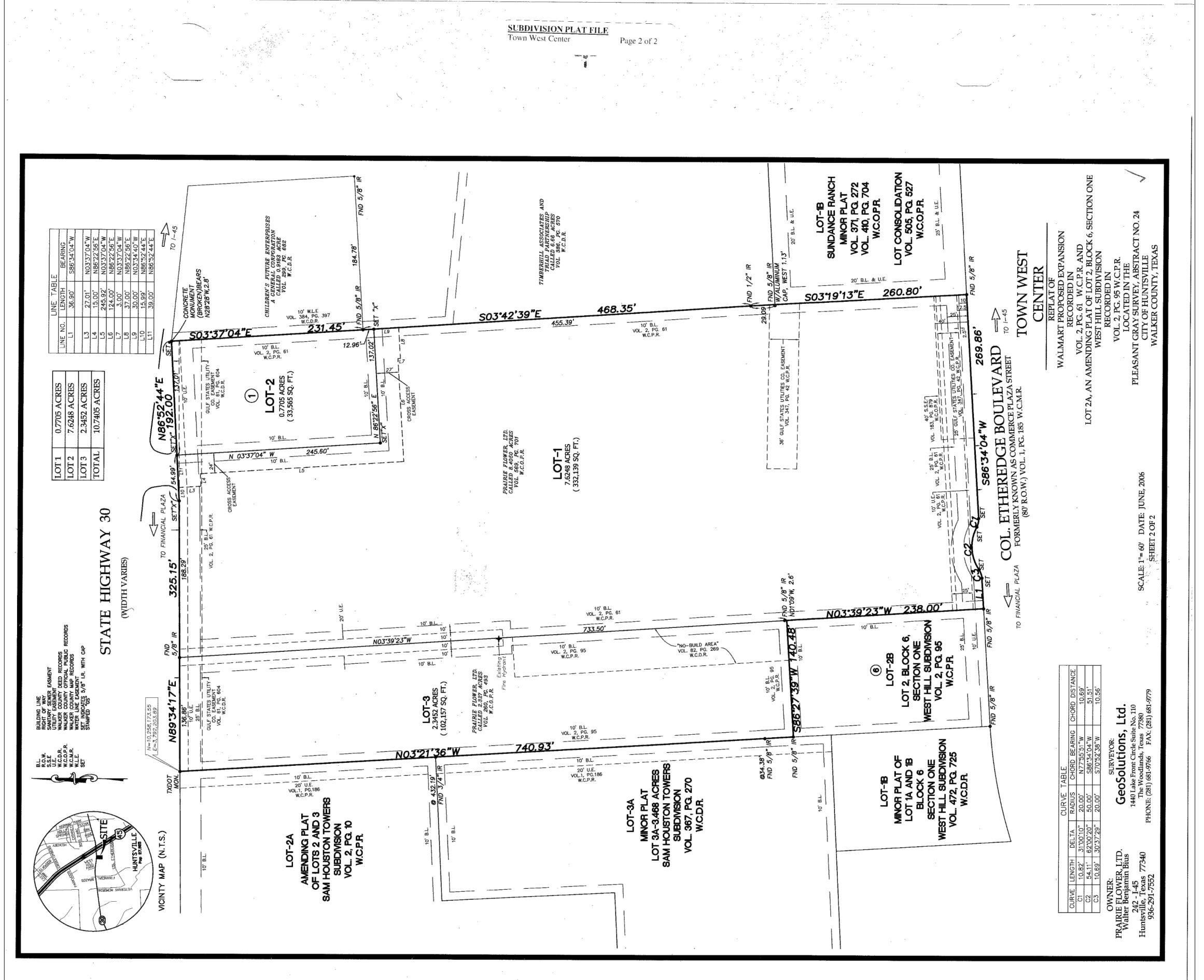
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nd documents for construction.

√IEWED	BY:	
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DESIGNED BY: TDM
CHECKED BY: JLR

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Final Plat

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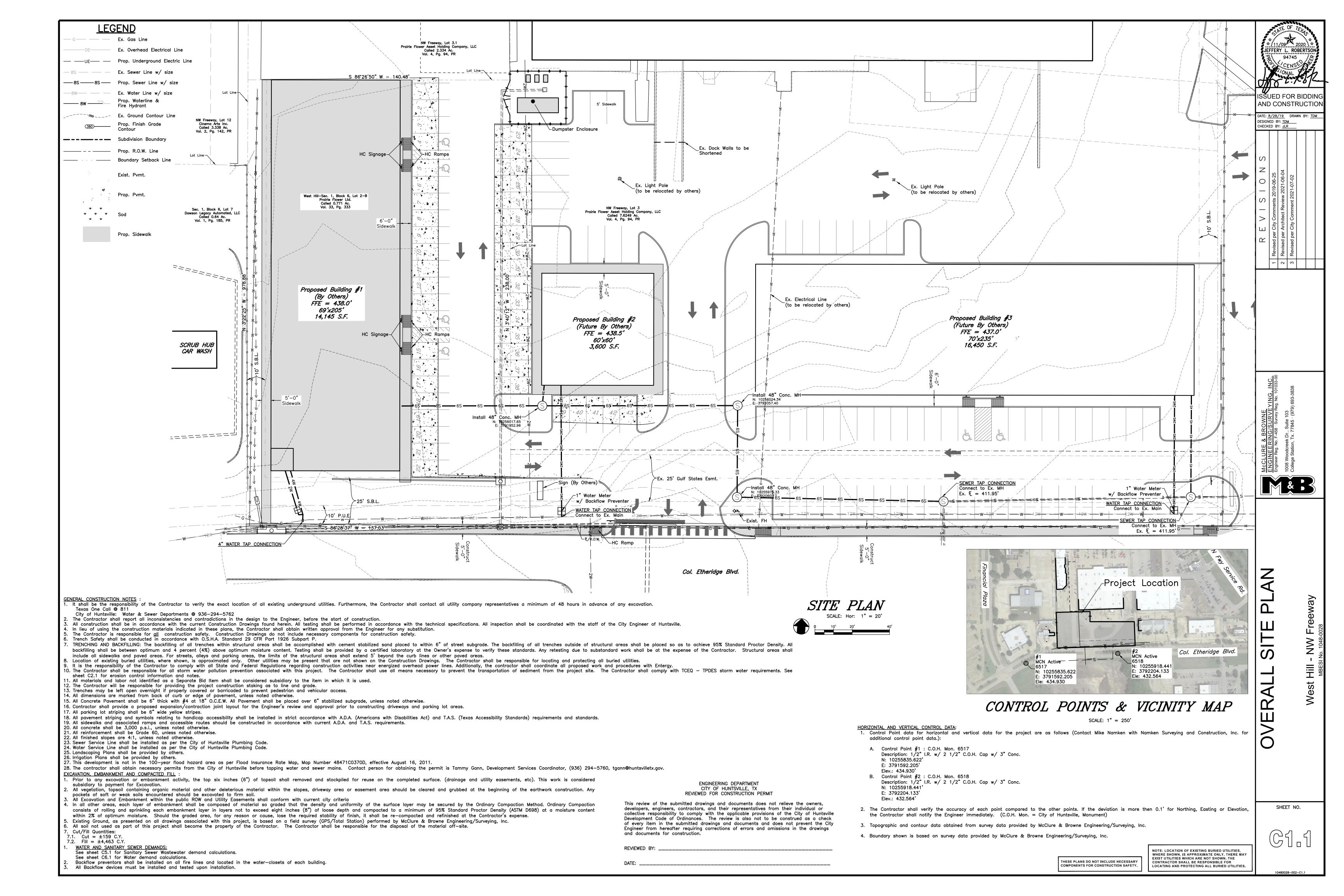
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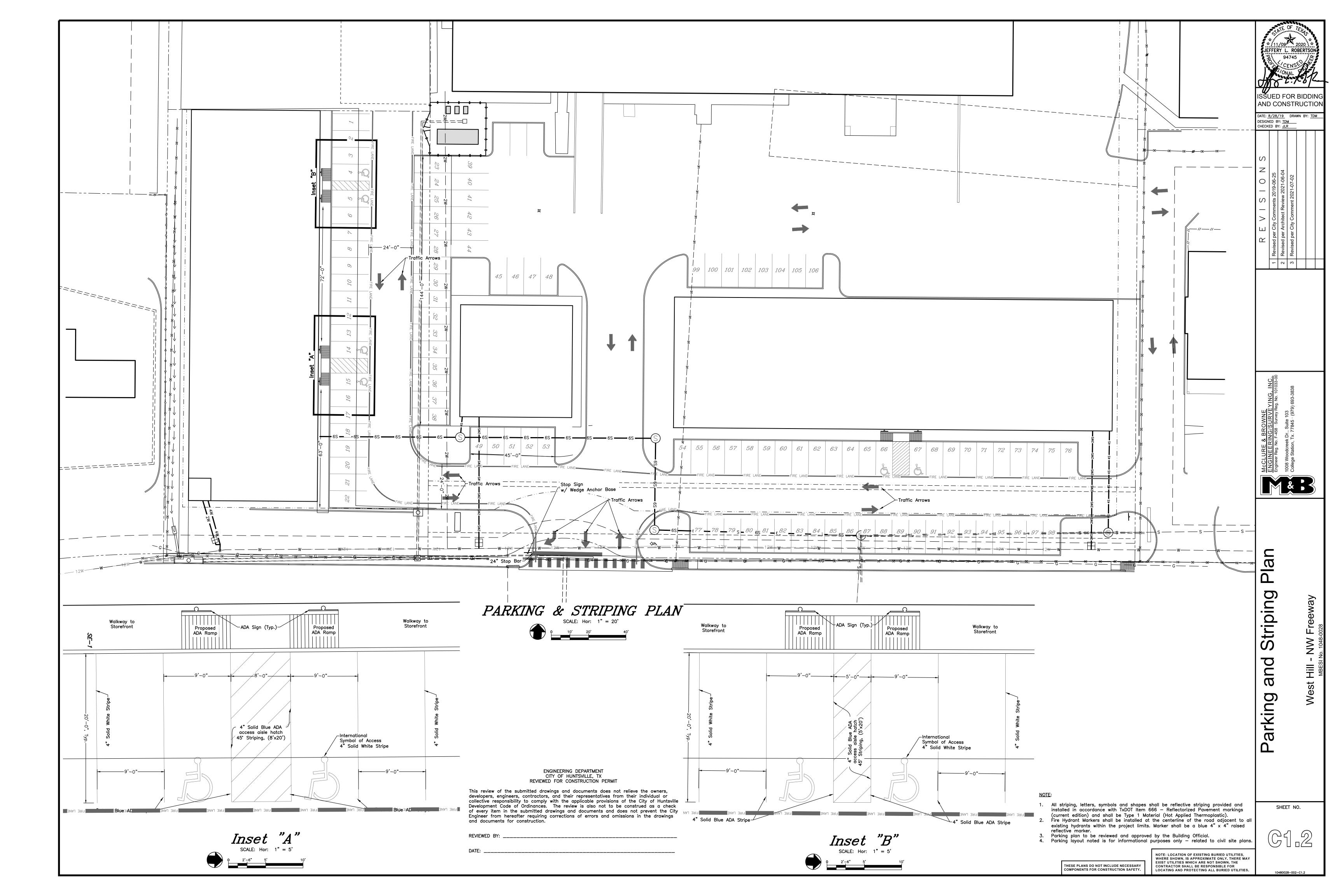
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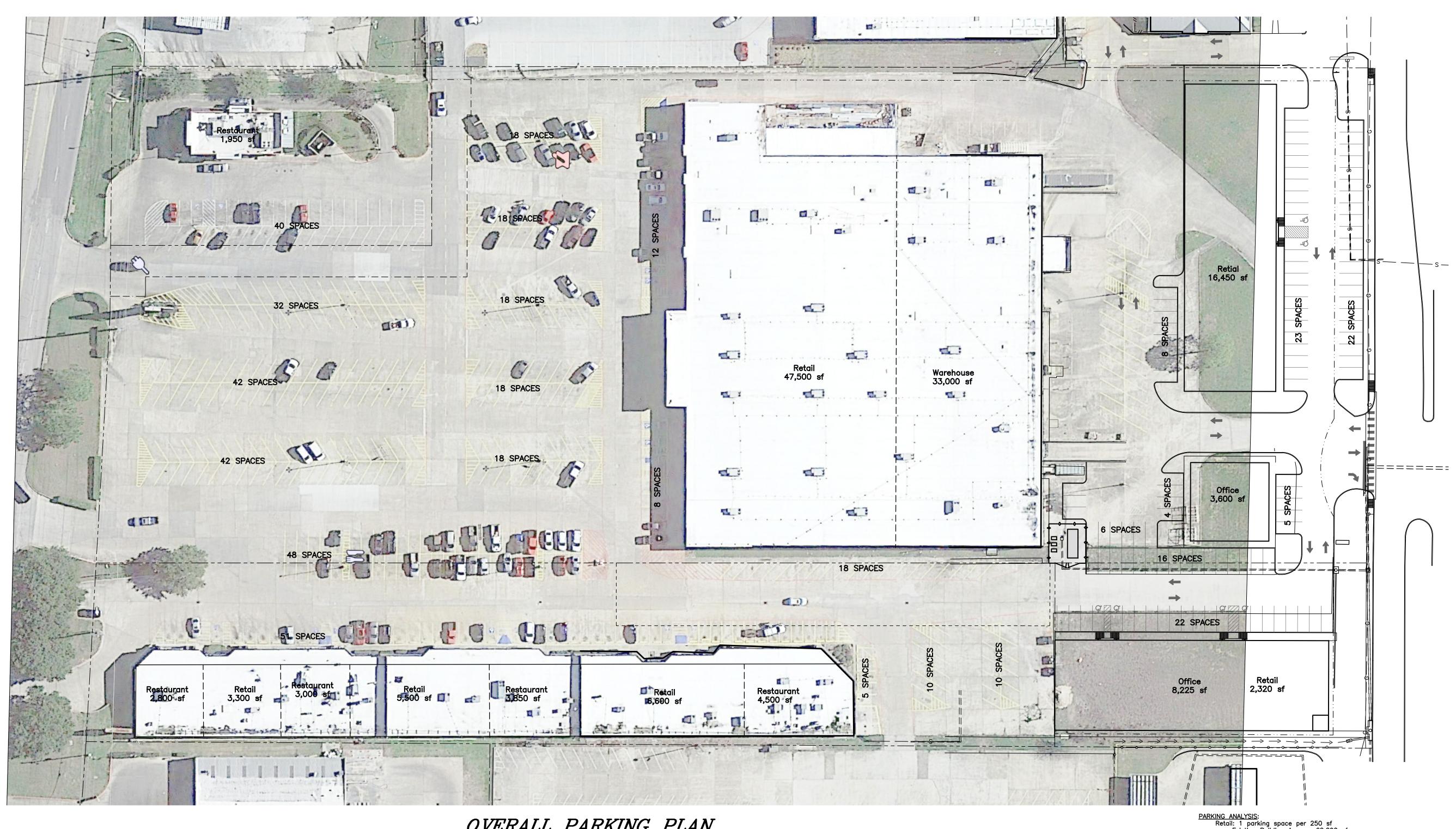
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ENGINEERING DEPARTMENT
CITY OF HUNTSVILLE, TX
REVIEWED FOR CONSTRUCTION PERMIT This review of the submitted drawings and documents does not relieve the owners, developers, engineers, contractors, and their representatives from their individual or collective responsibility to comply with the applicable provisions of the City of Huntsville Development Code of Ordinances. The review is also not to be construed as a check of every item in the submitted drawings and documents and does not prevent the City Engineer from hereafter requiring corrections of errors and omissions in the drawings and documents for construction.

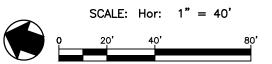
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OVERALL PARKING PLAN SCALE: Hor: 1" = 40'



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REVIEWED BY:

PARKING ANALYSIS:

Retail: 1 parking space per 250 sf
Existing Building Area: 62,290 sf
Proposed Building Area: 18,770 sf
Total Area: 81,670 sf
Parkina Required: 327

Office: 1 parking space per 300 sf Proposed Building Area: 11,825 sf Parking Required: 39

Restaurant: 1 parking space per 150 sf Proposed Building Area: 16,100 sf Parking Required: 107

Warehouse (Shipping and Receiving): 1 parking space per 1000 sf Proposed Building Area: 33,000 sf Parking Required: 33 Total Required Parking Spaces: 506 spaces

Parking Spaces Provided New Parking Lot Spaces: 106 spaces Existing Parking (Hobby Lobby Site)
Total 408 spaces 514 spaces Handicap Spaces Required : Total Handicap Spaces Provided: 10 spaces 17 spaces

Cross Access Agreement Walker County Records Instrument #69647 dated 2021/06/24.

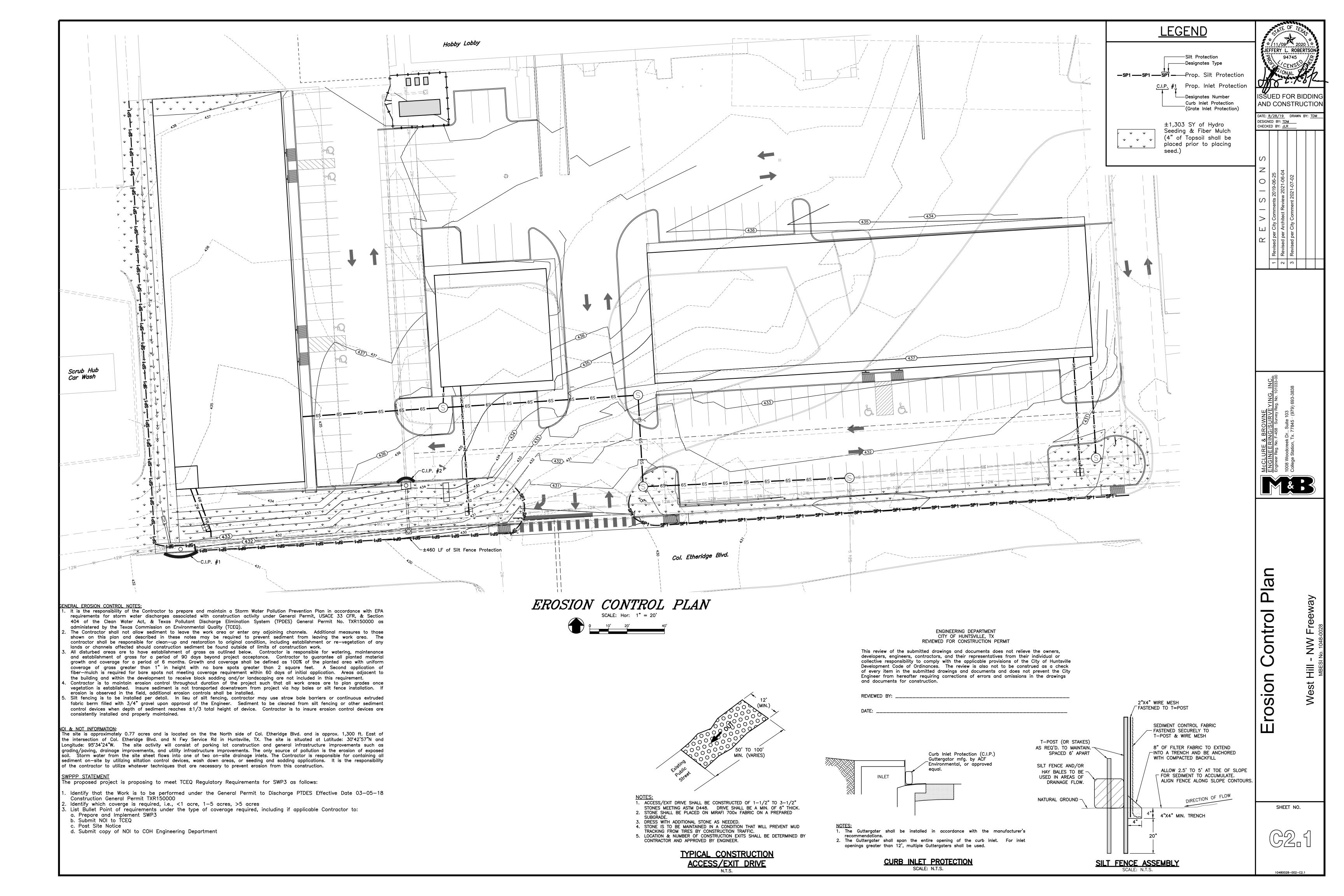
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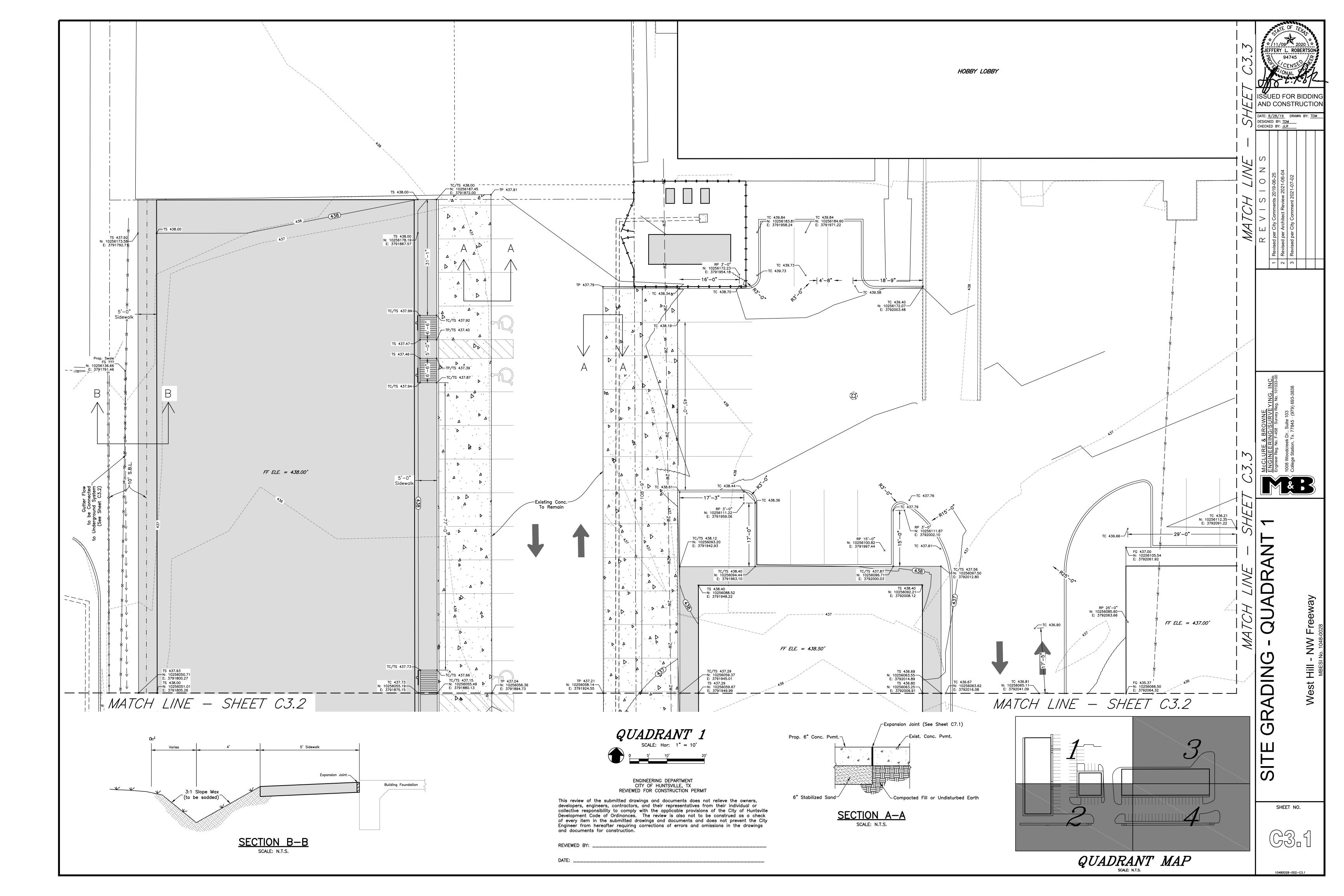
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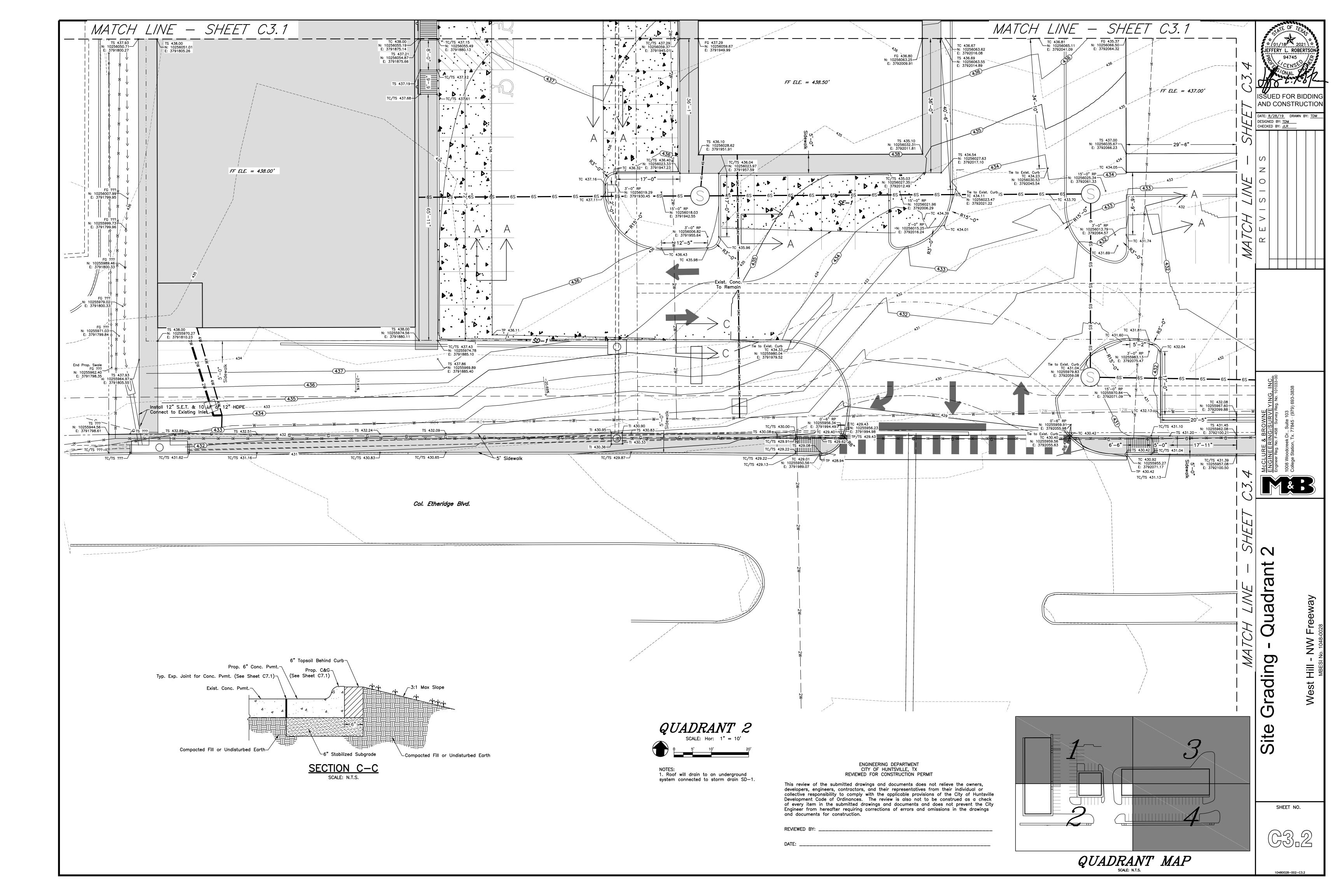
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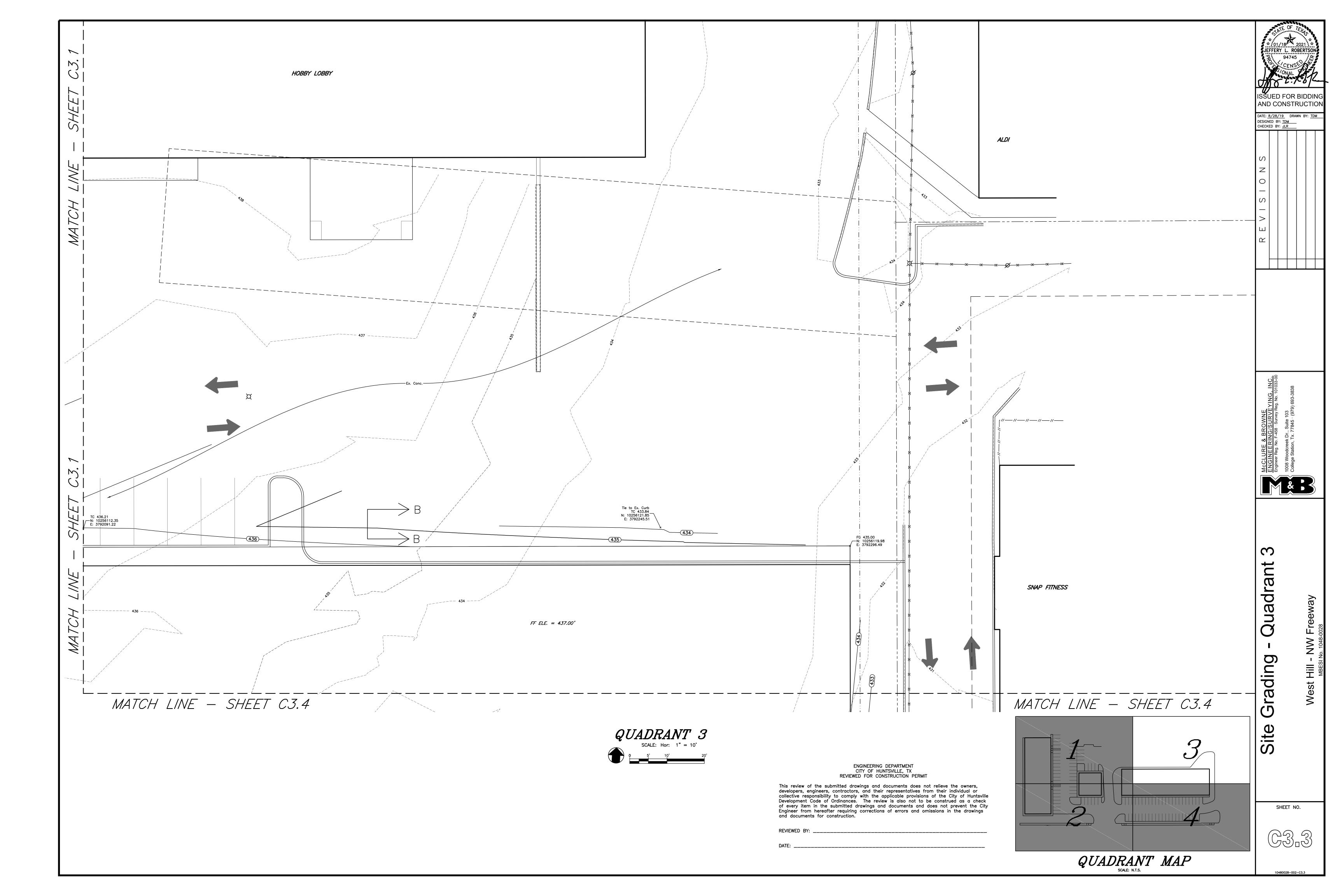


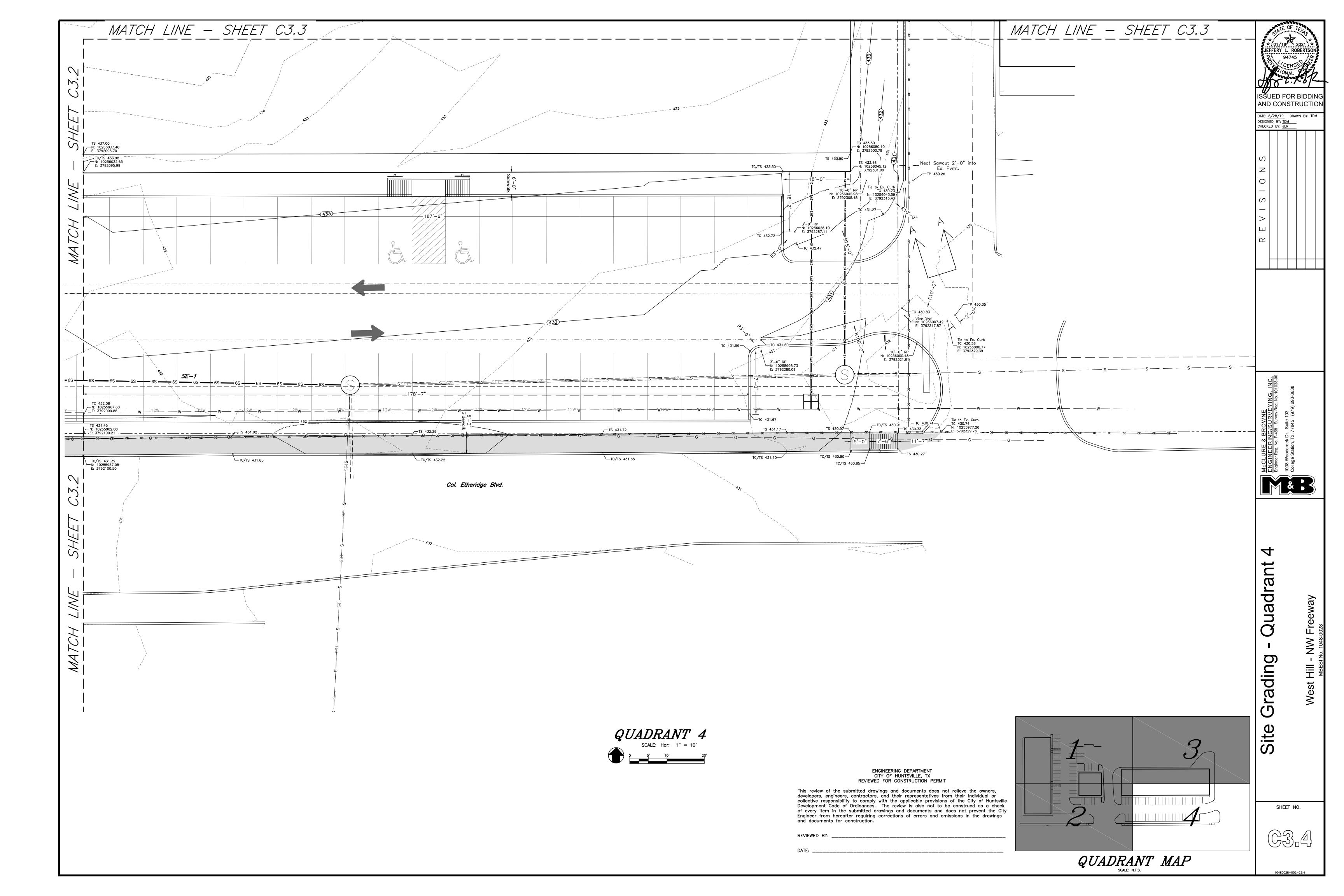
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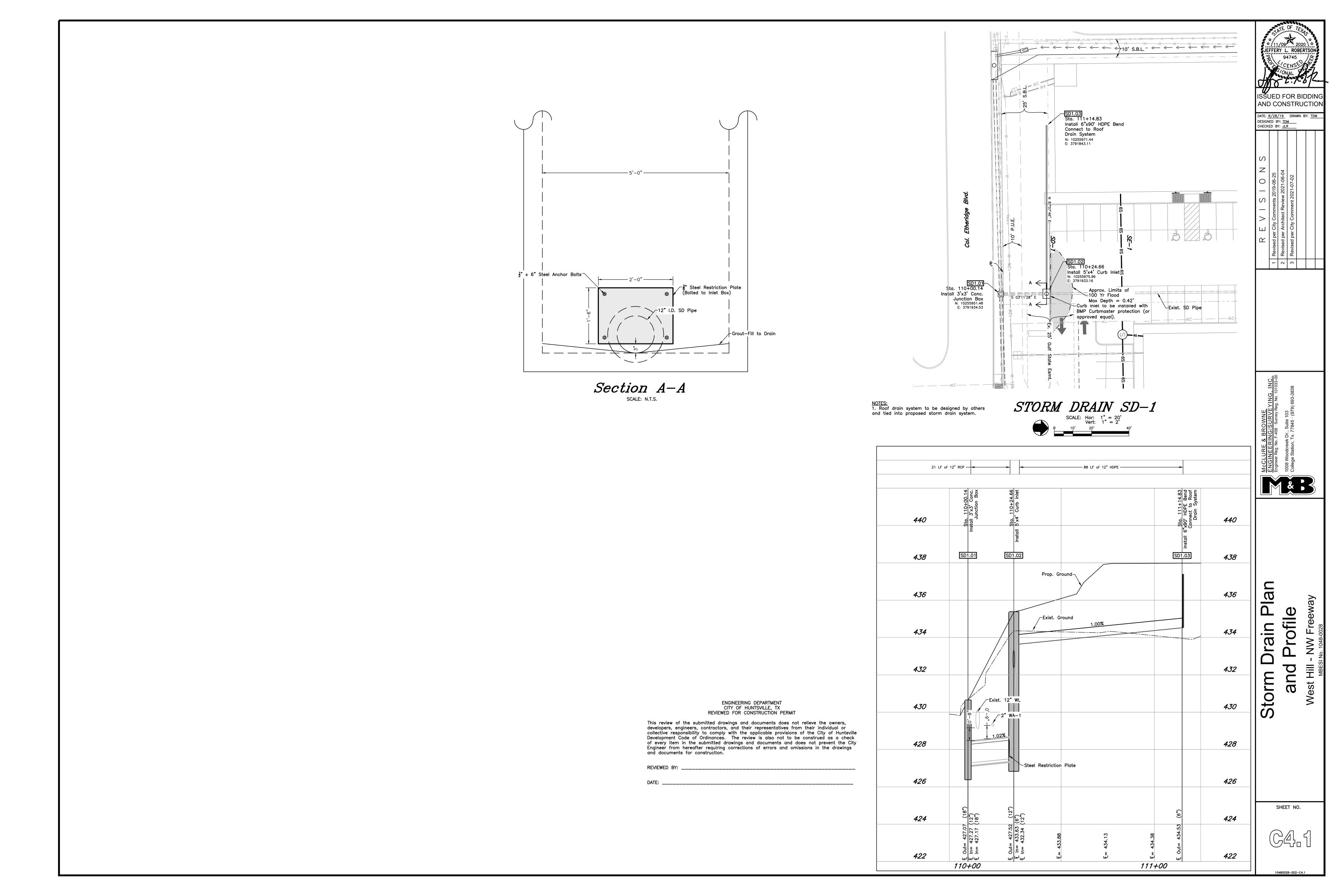


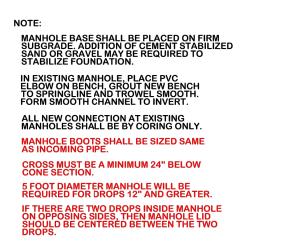


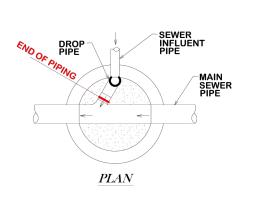


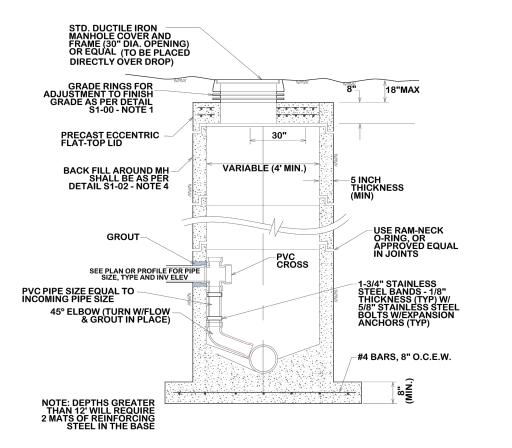












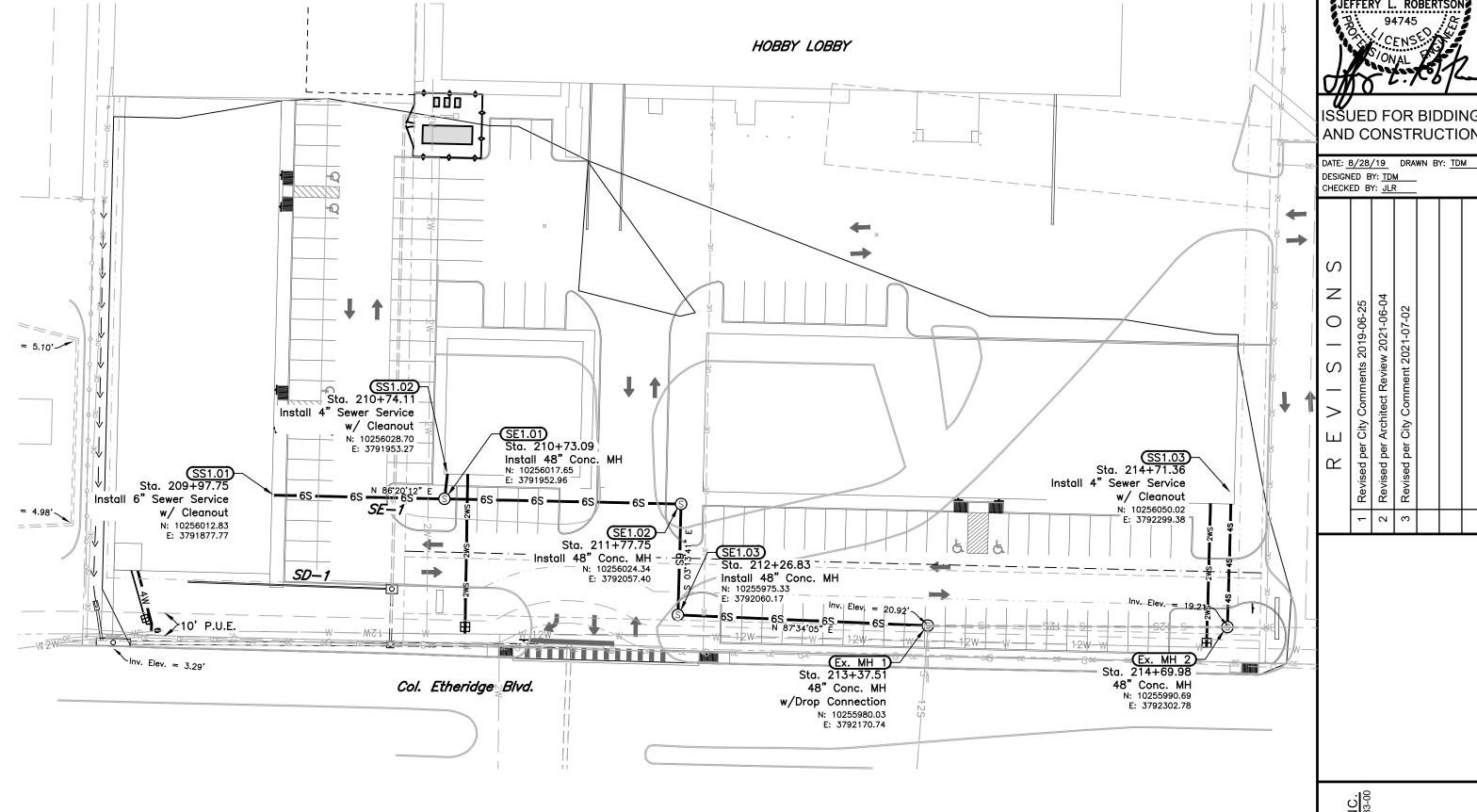
INSIDE DROP MANHOLE

WASTEWATER DEMANDS					
	Projected WW			Total Flow	Peak Flow
Unit Description	flowrate (g/ksf/d)	SF	Acres -	(gpd)	(gpd)
Commercial Lease Space #1	442	14280	0.328	6,312	25,247
Commercial Lease Space #2	442	3600	0.083	1,591	6,365
Commercial Lease Space #3	442	16450	0.378	7,271	29,084
			Total	6,312	25,247
*Wastewater Flow Type	Flow Rate				

Huntsville Residen 105 g/c/d SHSU Residential 143 p/c/d Commercial 442 g/ksf/d Peak Hour or Day Demand = 4.0

gpd - gallons per day

g/c/d – gallons per capita per day g/ksf/d – gallons per 1,000 square feet per day



SEWERLINE SE-1 GENERAL CONSTRUCTION NOTES:

1. Connection to Ex. MH 1.01 to be Drop MH connection per detail SS-09

STRUCTURAL BACKFILL — 136 LF of Structural Fill — __ 335 LF of 6" ASTM -D3034, SDR 26 PVC -TRENCH SAFETY — 61 LF of 5'-8' Trench — 440 SE1.02 Ex. MH 1 Ex. MH 2 436 -Prop. Ground Exist. Ground Sewer 432 *428* Sanitary 424 Plan *420* 416 412 SHEET NO. 408 404

213+00

214+00

211+00

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REVIEWED BY: _____

	Projected				
	Water flowrate			Total Average Daily	
Unit Description	(g/ksf/d)*	SF	Acres -	Flow (ADF) (gpd)	(PDF)(gpd)
Commercial Lease Space #1	590	14280	0.328	8,425	14,744
Commercial Lease Space #2	590	3600	0.083	2,124	3,717
Commercial Lease Space #3	590	16450	0.378	9,706	16,985
			Total	20,255	35,440
*Water Flow Type	Average Day Demand Flow Rate				

Peak Hour or Day Demand = 1.75

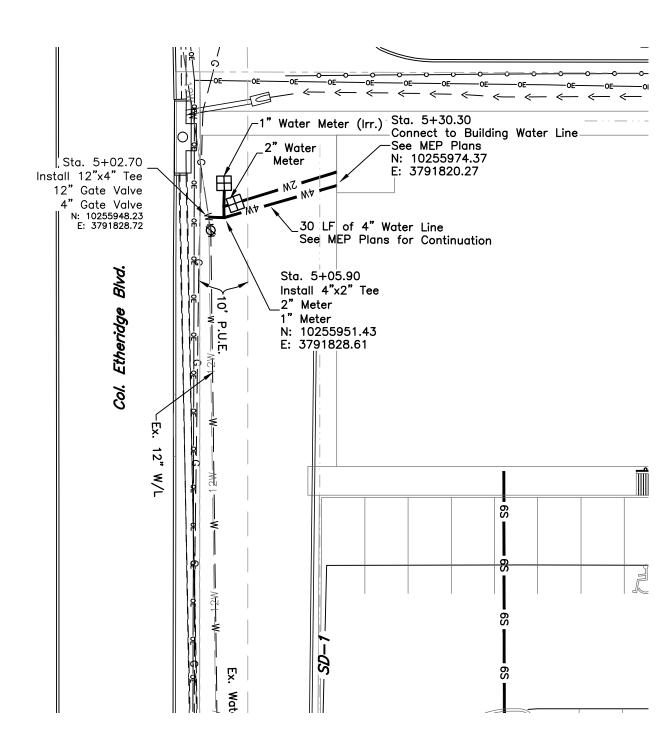
Residential

SHSU

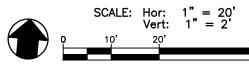
g/c/d - gallons per capita per day g/ksf/d - gallons per 1,000 square feet per day

140 g/c/d

190 p/c/d 590 g/ksf/d



WATERLINE WA-1



NOTES:
1. Contractor to pot—hole and locate existing waterline to verify depth. All depths are assumed and must be field verified.

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	38 LF of 4" AWWA C-900	-
444		444
440		110
442		442
440		440
<i>438</i>		<i>438</i>
700		700
436		436
Prop. G	Ground	
434		434
	Exist. G	round
432	\$55	432
430		430
Connect to Exist. W/L		
428	Line	428
	50.00 50.51 52.78 Mater L	
426	作	426
	2"x4" 2"x4" 2"x4" Valve 05.90, "x2" Ti	
424	Sta. 5+02.70, f= 430.00 Install 12"x4" Tee 12" Gate Valve 4" Gate Valve Sta. 5+05.90, f= 430.51 Install 4"x2" Tee 2" Meter 1" Meter 1" Meter Sta. 5+30.30, f= 432.78 Connect to Building Water L See MEP Plans	424
<i>TZ T</i>	$ \alpha = -4 \alpha = \alpha - \alpha = \alpha $	72.7

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AND CONSTRUCTION DATE: 8/28/19 DRAWN BY: TDM
DESIGNED BY: TDM
CHECKED BY: JLR

SHEET NO.

GENERAL CONSTRUCTION NOTES

(ISSUE DATE: 06-19-18) (THESE NOTES ARE CONSIDERED SUPPLEMENTAL TO THE WATER, SANITARY SEWER, AND STORM SEWER CONSTRUCTION NOTES)

LOCATES AND PERMITTING

- THE LOCATION OF AT&T (COMMUNICATIONS), CENTERPOINT ENERGY (GAS), ENTERGY (AKA GULF STATE UTILITIES ELECTRIC), MID-SOUTH SYNERGY (ELECTRIC), WALLER COUNTY CABLEVISION, SUDDEN LINK CABLE, PHELPS WATER, WALKER COUNTY SUD. AND OTHER UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL REQUEST THE EXACT LOCATION OF THESE FACILITIES BY CALLING THE UTILITY COORDINATING COMMITTEE AT PHONE NUMBER 800-545-6005 OR 811. AT LEAST 48-HOURS BEFORE COMMENCING WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH OCCUR DUE TO HIS FAILURE TO REQUEST THE LOCATION AND PRESERVATION OF THESE UNDERGROUND FACILITIES.
- CONTRACTOR SHALL CONTACT THE CITY OF HUNTSVILLE UTILITIES AT 936-294-5733 AND ENGINEERING DEPARTMENT AT 936-294-5789 A MINIMUM OF 48-HOURS PRIOR TO BEGINNING ANY WORK. WHEN APPLICABLE, CONTRACTOR SHALL NOTIFY TEXAS DEPARTMENT OF TRANSPORTATION AREA ENGINEER 48-HOURS PRIOR TO CONSTRUCTION IN THE STATE'S RIGHTS-OF-WAY AT
- CONTRACTOR TO BE RESPONSIBLE TO OBTAIN ALL REQUIRED CONSTRUCTION PERMITS INCLUDING WALKER COUNTY, TXDOT AND CITY OF HUNTSVILLE.

ENERGIZED OVERHEAD POWER LINE

CHAPTER 752 OF THE TEXAS HEALTH AND SAFETY CODE PROHIBITS ALL ACTIVITIES IN WHICH IT IS POSSIBLE FOR PERSONS, EQUIPMENT, OR MATERIALS TO COME WITHIN SIX FEET OF AN ENERGIZED OVERHEAD POWER LINE. FEDERAL REGULATION, TITLE 29. PART 1910,190(L) AND PART 1926,440(A)(15), ALSO CONTAIN MINIMUM CLEARANCE REQUIREMENTS FROM ANY ENERGIZED POWER LINE, INDIVIDUALS ARE RESPONSIBLE FOR THEIR OWN SAFETY AND CONTRACTORS AND OWNERS ARE LEGALLY RESPONSIBLE FOR THE SAFETY OF THEIR WORKERS UNDER THESE LAWS. IF YOU OR YOUR COMPANY MUST WORK NEAR OVERHEAD POWER LINES, CALL 1-800-ENTERGY TO BEGIN THE PROCESS OF DE-ENERGIZING OR RELOCATING THE POWER LINES AT YOUR EXPENSE, FAILURE TO DO SO COULD LEAD TO THE DEATH OR SERIOUS INJURY TO YOU OR SOMEONE ELSE AS WELL AS BE A VIOLATION OF THE ABOVE LAWS POTENTIALLY SUBJECTING YOU TO CRIMINAL AND CIVIL PENALTIES.

SURVEYING AND DIMENSIONAL CONTROL

- ALL SURVEY CONTROL POINTS AND BENCHMARKS ARE REPORTED AS FOLLOWS: HORIZONTAL COORDINATES (EXPRESSED IN U. S. SURVEY FEET UNITS) AND BEARINGS HEREON ARE REFERRING TO THE TEXAS COORDINATE SYSTEM OF 1983, CENTRAL ZONE AND BASED ON THE POSITION OF THE NATIONAL GEODETIC SURVEY (NGS) PRIMARY AIRPORT CONTROL STATION "T39 A" HAVING PUBLISHED NAD 83 (1993) COORDINATES OF N=3,128,437.762 METERS AND E=1,154,289.433 METERS. LINEAR DIMENSIONS (EXPRESSED IN U.S. SURVEY FEET) ARE "NAD83 GRID" UNIT AND MAY BE CONVERTED TO "GEODETIC HORIZONTAL" UNITS BY DIVIDING BY A COMBINED SCALE FACTOR OF 0.99988. ELEVATIONS ARE EXPRESSED IN U.S. SURVEY FEET AND REFERRED TO THE (NGS) NORTH
- CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION TO DETERMINE POTENTIAL CONFLICTS AND VERIFY THAT THE BORING OPERATION AND PIPE INSTALLATION CAN BE ACCOMPLISHED WITHOUT
- CONTRACTOR IS RESPONSIBLE FOR HIS OWN HORIZONTAL AND VERTICAL CONTROL. REFERENCE POINTS AND CONSTRUCTION
- ALIGNMENT, CENTERLINE CURVE DATA, AND STATIONING TO BE DETERMINED FROM APPROVED AND/OR RECORDED SUBDIVISION OR ROAD RIGHT-OF-WAY PLAT.
- PUBLIC EASEMENTS DENOTED ON THIS PLAN ARE HEREBY DEDICATED TO THE PUBLIC FOREVER. ANY PUBLIC UTILITY, INCLUDING THE CITY OF HUNTSVILLE, SHALL HAVE THE RIGHT AT ALL TIMES, OF INGRESS AND EGRESS TO AND FROM AND UPON SAID EASEMENTS FOR THE PURPOSE OF CONSTRUCTION, RECONSTRUCTION, INSPECTION, PATROLLING, MAINTAINING AND ADDING TO OR REMOVING ALL OR PART OF ITS RESPECTIVE SYSTEMS WITHOUT THE NECESSITY OF ANY TIME OF PROCURING THE PERMISSION OF THE PROPERTY OWNER. ANY PUBLIC UTILITY, INCLUDING THE CITY OF HUNTSVILLE, SHALL HAVE THE RIGHT TO MOVE AND KEEP MOVED ALL OR PART OF ANY BUILDING, FENCES, TREES, SHRUBS, OTHER GROWTHS OR IMPROVEMENTS THAT IN ANY WAY ENDANGER OR INTERFERE WITH THE CONSTRUCTION, MAINTENANCE OR EFFICIENCY OF IT'S RESPECTIVE SYSTEMS ON ANY OF THE EASEMENTS SHOWN ON THIS PLAT. NEITHER THE CITY OF HUNTSVILLE OR ANY PUBLIC UTILITY SHALL BE RESPONSIBLE FOR THE REPLACING OR REIMBURSING THE PROPERTY OWNER DUE TO REMOVAL OR RELOCATION OF ANY OBSTRUCTION ON THE PUBLIC EASEMENTS.
- ALL DIMENSIONS SHOWN ARE APPROXIMATE AND NEED TO BE FIELD VERIFIED BY THE CONTRACTOR, HORIZONTAL AND VERTICAL ALIGNMENT CHANGES ARE TO BE APPROVED BY THE CITY.
- ALL EXISTING UNDERGROUND UTILITIES ARE NOT GUARANTEED TO BE COMPLETED OR DEFINITE, BUT WERE OBTAINED FROM THE BEST INFORMATION AVAILABLE. CONTRACTOR HAS SOLE RESPONSIBILITY FOR FIELD VERIFICATION OF ALL EXISTING FACILITIES SHOWN ON DRAWINGS. CONTRACTOR SHALL COORDINATE ALL CONFLICTS WITH THE APPROPRIATE GOVERNING AGENCY.

MAPPING/ENGINEERINGDIVISION
CITY OF HUNTSVILLE, TEXAS

DRAWN BY: WLSIII

SCALE: N.T.S.

NAME: CONSTRUCTION NOTES CATEGORY: GENERAL FACILITY DRAWN DATE: 11/22/2016 APPROVED BY: YSR

City Service Center

448 State Highway 75 Huntsville, TX 77320

<u> </u>				
REV#	ISSUER	DATE	APPROVER	SHEET
0	MAM	07/10/2018		1 OF 3
				GF-01

CITY OF HUNTSVILLE STANDARD DETAILS

CONSTRUCTION NOTES

GENERAL CONSTRUCTION NOTES

OSHA - TRENCH SAFETY

- CONTRACTOR SHALL IMPLEMENT THE TRENCH SAFETY SYSTEM REQUIREMENTS OF THE FEDERAL, STATE, AND LOCAL SAFETY AND HEALTH REGULATIONS AND THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), 29 CFR, PART 1926 SUBPART P, EXCAVATION AND THE TEXAS HEALTH AND SAFETY CODE, CHAPTER 756. MISCELLANEOUS HAZARDOUS CONDITIONS
- NO EXCAVATIONS SHALL BE LEFT OPEN OVERNIGHT. ALL EXCAVATIONS WHICH CANNOT BE BACKFILLED OVERNIGHT FOR THE INSTALLATION OF MANHOLES, SANITARY SEWER LINES, AND OTHER UTILITIES SHALL BE COVERED WITH STEEL SHEETING, WHEN IN PAVED AREAS, 3/4" PLYWOOD, WOOD PLANKING OR SOME OTHER MATERIAL APPROVED BY THE CITY IN OTHER AREAS. THE EXCAVATION AREA MUST BE WELL PROTECTED WITH TRAFFIC BARRICADES EQUIPPED WITH FLASHING YELLOW LIGHTS.
- ALL EXCAVATION AREAS MUST BE COMPLETELY CORDONED OFF WITH A MINIMUM OF TWO STRANDS OF YELLOW PLASTIC CONSTRUCTION TAPE, ACCEPTABLE TO THE CITY, THE TAPE SHALL BE SUPPORTED WITH ENOUGH INTERMEDIATE SUPPORTS TO AVOID EXCESSIVE SAGGING. THE TAPE MAY BE TIED TO TRAFFIC BARRICADES WITH FLASHING YELLOW LIGHTS AND WOODEN LATH FOR SUPPORT. WHERE EXCAVATIONS EXTEND BEYOND THE EXISTING BACK OF CURB OR EDGE OF PAVEMENT, ADEQUATE BARRICADES WITH FLASHING YELLOW LIGHTS SHALL BE INSTALLED TO PROTECT PEDESTRIAN TRAFFIC.

STREETS, TRAFFIC CONTROL

- WHEN ANY STREET OR ANY SECTION OF A STREET IS CLOSED, THE CONTRACTOR SHALL FURNISH AND MAINTAIN ADEQUATE BARRICADES, WARNING AND DIRECTING SIGNS, RED FLAGS AND LIGHTS AT THE END OF EACH STREET AND AT ALL INTERSECTIONS ALONG THE STREET WITHIN THE LIMIT OF THE WORK AREA. ALL EXPENSE INCURRED FOR THE ABOVE REOUIREMENTS SHALL BE BORNE BY THE CONTRACTOR. ALL WARNING SIGNS AND BARRICADES SHALL CONFORM TO THE LATEST EDITION OF THE TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. CONTRACTOR TO NOTIFY PROPER AUTHORITIES PRIOR TO ANY STREET OR PARTIAL STREET CLOSING.
- CONTRACTOR SHALL MAINTAIN AT LEAST ONE LANE OF TRAFFIC IN EACH DIRECTION DURING WORKING HOURS.
- OFF-DUTY UNIFORMED POLICE OFFICER(S) ARE REQUIRED TO DIRECT TRAFFIC WHERE TRAFFIC LANES ARE BLOCKED.
- CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTIES AFFECTED BY THIS CONSTRUCTION BY MEANS OF ANCHORED STEEL PLATES, BY BACKFILLING IMMEDIATELY AFTER CONSTRUCTION, AND/OR BY PLACING SHELL OR LIMESTONE SURFACES FOR TEMPORARY DRIVEWAY PURPOSES. CONTRACTOR'S ATTENTION IS DIRECTED TO HS-20 LOAD RATED ACCESS REQUIREMENTS FOR ALL SUCH AREA.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING BARRICADES, FLAGMEN, ETC. TO CONFORM TO SAFETY REQUIREMENTS FOR THE CITY OF HUNTSVILLE AND TEXAS DEPARTMENT OF TRANSPORTATION.

DEPARTMENT OF ENGINEERING & MAPPING/ENGINEERING HUNTSVILLE, TEXAS

NAME: CONSTRUCTION NOTES CATEGORY: GENERAL FACILITY DRAWN DATE: 11/22/2016 DRAWN BY: WLSIII SCALE: N.T.S. APPROVED BY: YSR

11-14-83 JCY



Huntsville, TX 77320

CITY OF HUNTSVILLE STANDARD DETAILS CONSTRUCTION NOTES REV# ISSUER DATE APPROVER SHEET MAM 07/10/2018 2 OF 3 GF-01

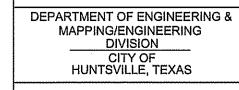
GENERAL CONSTRUCTION NOTES (CONTINUED)

CONTRACTOR ADDITIONAL RESPONSIBILITIES

- EXISTING PAVEMENTS, CURBS, SIDEWALKS AND DRIVEWAYS DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED TO THE ORIGINAL OR BETTER CONDITIONS
- CONTRACTOR IS RESPONSIBLE FOR EXAMINING ALL EXISTING FENCES AND REPAIRING THEM EQUAL TO OR BETTER THAN THEIR EXISTING CONDITION. THE COST FOR REPAIRING OR RESETTING EXISTING FENCES AND FENCE POST SHALL BE INCLUDED IN THE OTHER ITEMS OF WORK IN THE PROJECT.
- CONTRACTOR SHALL CLEAN AND DRESS UP EACH DAY'S WORK AREA PRIOR TO PROCEEDING WITH THE NEXT DAY'S WORK. ADEQUATE POSITIVE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
- TREES WITHIN THE STREET RIGHT-OF-WAY SHALL NOT BE REMOVED OR DISTURBED, EXCEPT WHERE CALLED OUT TO BE

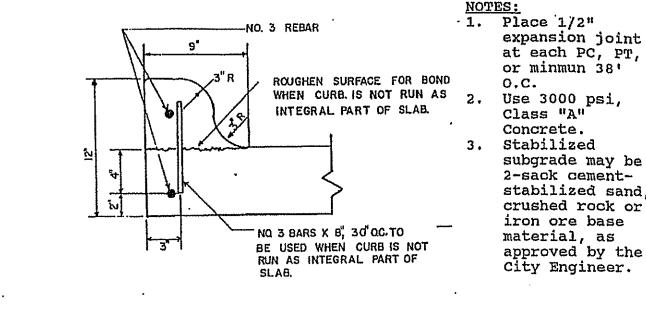
CONTRACTOR SHALL ADEQUATELY PROTECT EXISTING STRUCTURES, UTILITIES, TREES, SHRUBS AND OTHER PERMANENT

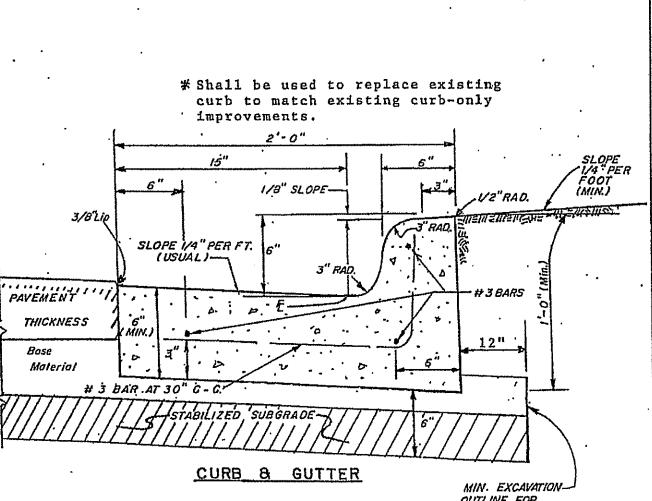
- REMOVED. WHERE TREE ROOTS MUST BE CUT, FOLLOW THE REPAIR METHODS DESCRIBED IN THE SPECIFICATIONS AND/OR
- THE CONTRACTOR SHALL CONDUCT THEIR OPERATIONS IN A MANNER SUCH THAT TRUCKS AND OTHER VEHICLES DO NOT CREATE A DIRT NUISANCE OR SAFETY HAZARD IN ANY STREETS, PUBLIC OR PRIVATE. CLEAN UP OF STREETS SHALL BE
- ANY AREA OF GRASS, WHICH IS DISTURBED OR DUG UP DURING THE CONSTRUCTION, SHALL BE REPLACED WITH ST. AUGUSTINE SOD OR GRASS THAT MATCHES THE GRASS REMOVED, REFERENCE SPECIFICATIONS AND/OR PLANS.
- EXISTING PAVEMENTS, CURBS, SIDEWALKS, DRIVEWAYS AND LANDSCAPING DAMAGED OR REMOVED DURING CONSTRUCTION BY THE CONTRACTOR SHALL BE REPLACED BY THE CONTRACTOR AT THEIR EXPENSE.
- ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION AND ANY DRAINAGE DITCH OR STRUCTURE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THE SATISFACTION OF THE OWNING AUTHORITY. ALL CONSTRUCTION STORM RUNOFF SHALL COMPLY WITH THE SWP3 DEVELOPED FOR THE SITE AND IN COMPLIANCE WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) REQUIREMENTS.
- EXISTING PAVEMENTS, CURBS, SIDEWALKS AND DRIVEWAYS DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED TO THE ORIGINAL OR BETTER CONDITIONS.
- CONDITION OF THE FACILITIES, UPON COMPLETION OF JOB, SHALL BE AS GOOD OR BETTER THAN THE CONDITION PRIOR TO STARTING WORK. THE CONTRACTOR SHALL RESTORE ALL GRADES AND LANDSCAPING TO PRECONSTRUCTION CONDITIONS AND RE-ESTABLISH TURF AREAS DAMAGED BY THE CONSTRUCTION ACTIVITIES.
- ALL EXCESS DIRT FROM EXCAVATION SHALL BE DISPOSED OF OFFSITE BY CONTRACTOR AT NO EXTRA PAY.
- CONTRACTOR SHALL REMOVE ALL TRASH, EXCESS MATERIAL, DEBRIS, ETC. FROM THE SITE UPON COMPLETION OF THE PROJECT PRIOR TO INSPECTION AND APPROVAL BY THE APPROVING AGENCIES.
- CONTRACTOR SHALL PROVIDE THE CITY OF HUNTSVILLE ONE SET OF (RECORD) DRAWINGS.

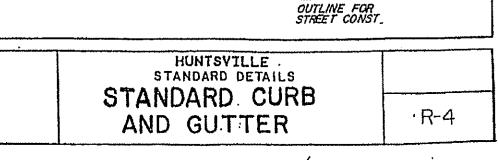


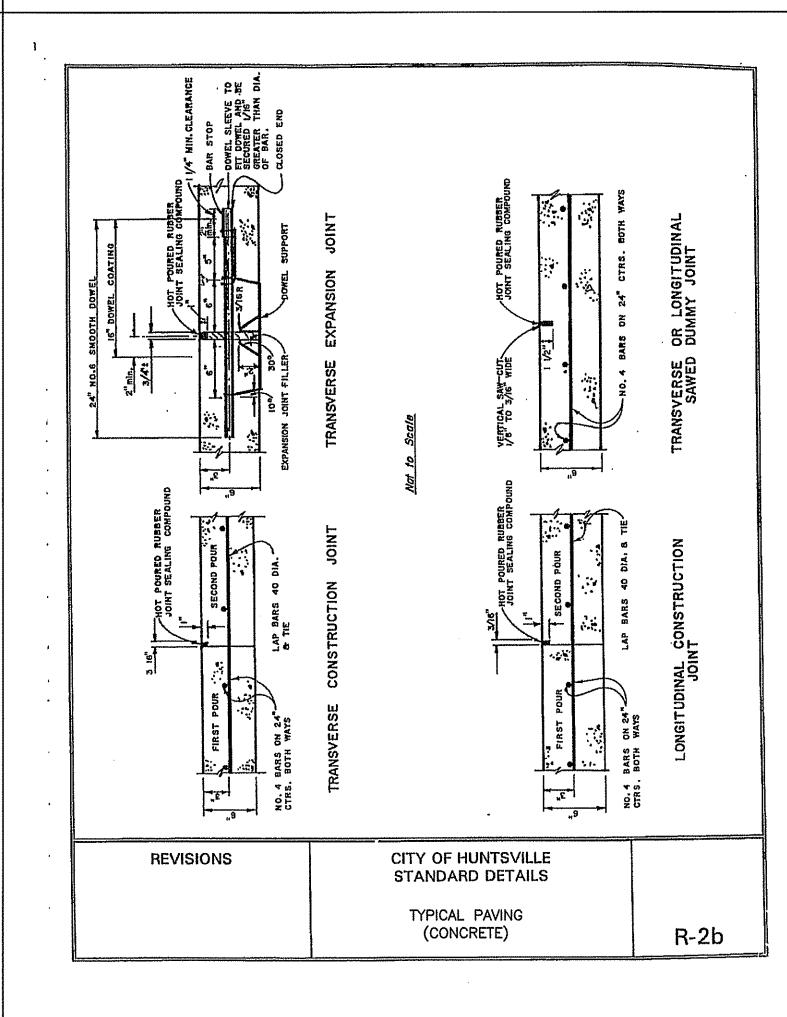
CITY OF HUNTSVILLE STANDARD DETAILS CONSTRUCTION NOTES REV# ISSUER DATE APPROVER SHEET MAM 3 OF 3

NAME: CONSTRUCTION NOTES CATEGORY: GENERAL FACILITY 07/10/2018 DRAWN DATE: 11/22/2016 City Service Center DRAWN BY: WLSIII 448 State Highway 75 GF-01 SCALE: N.T.S. APPROVED BY: YSR Huntsville, TX 77320









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SŠUED FOR BIDDING AND CONSTRUCTION

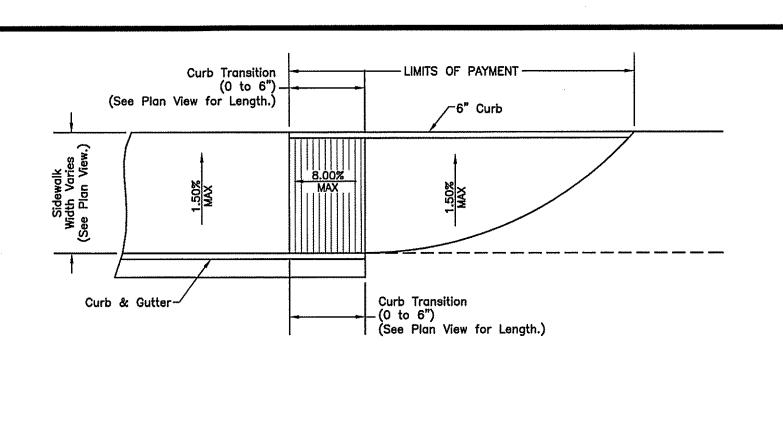
DATE: 8/28/19 DRAWN BY: TDM DESIGNED BY: TDM

CHECKED BY: JLR

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 City
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Ramps shall be installed in accordance with Texas Accessibility Act (TAS) requirements.

Truncated domes shall be installed per manufacturer recommendations. The color shall be selected by Owner. Dome types shall be as follows:

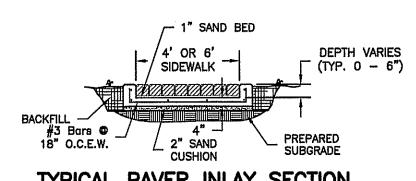
New Construction: Armor—Tile Tactile Systems Cast in Place Tiles, or approved equal.

Rehab Construction: Armor—Tile Tactile Systems Surface Applied Tiles, or approved equal.

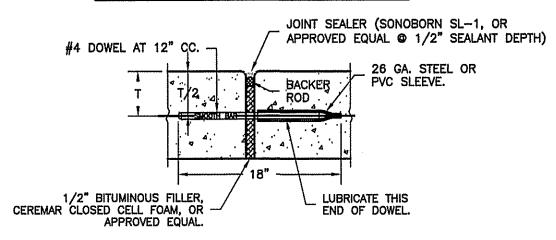
Ramp color shall be selected by Owner.

Ramp surfaces shall scored with a broom finish. Ramps shall be doweled into curbs and adjacent sidewalks with #4 smooth dowels at 12" C.C. Reinforcement size and spacing shall be the same as the sidewalk.

STANDARD SIDEWALK RAMP DETAILS

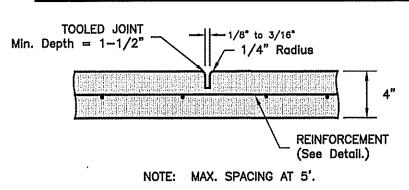


TYPICAL PAVER INLAY SECTION

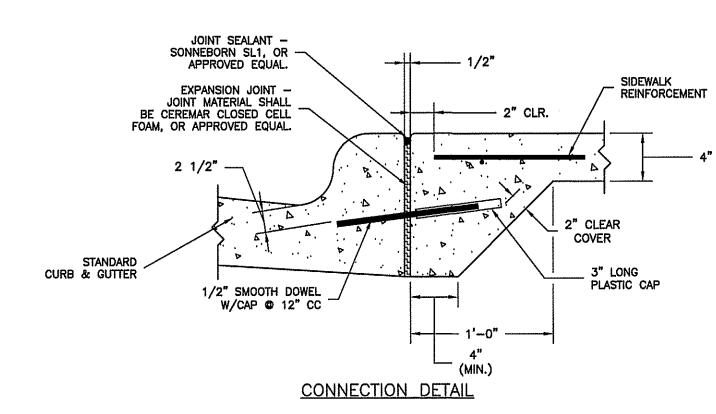


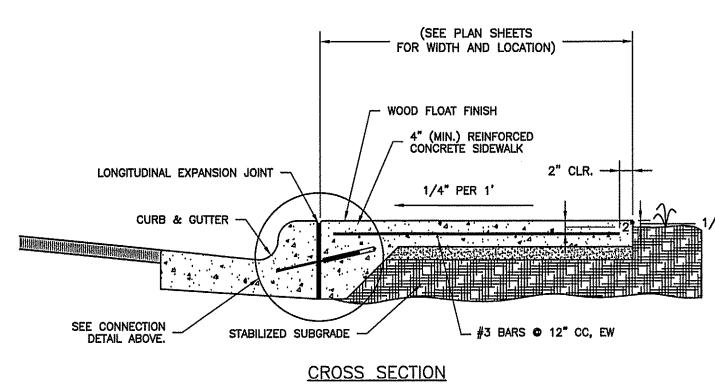
NOTE: MAX. SPACING AT 50'.

TYPICAL SIDEWALK EXPANSION JOINT

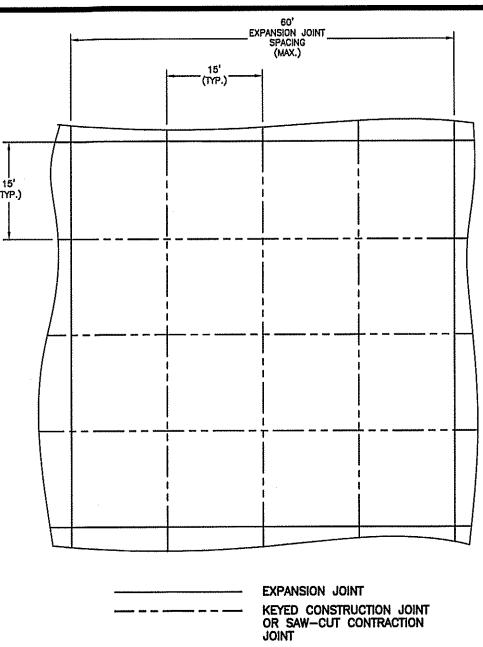


TYPICAL SIDEWALK CONTRACTION JOINT



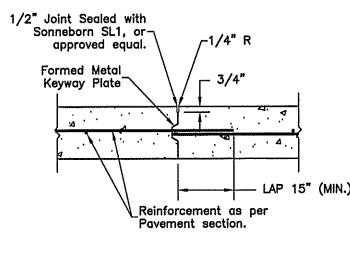


CONCRETE SIDEWALK
N.T.S.

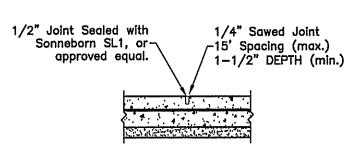


NOTE: SAW-CUT JOINTS SHALL BE INSTALLED WITHIN 24 HOURS OF PLACEMENT OF CONCRETE.

JOINT LAYOUT FOR CONCRETE PAVEMENT SCALE: N.T.S.



CONSTRUCTION
JOINT - KEYED

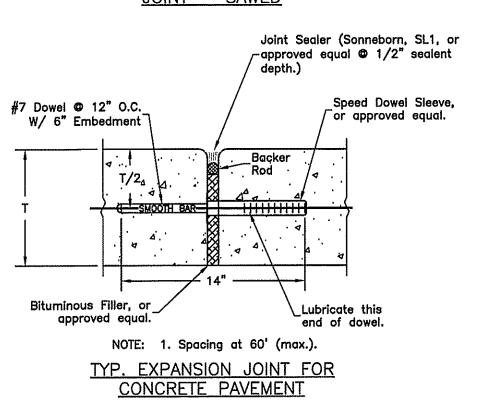


NOTES:

1. Saw—cut shall be installed within 24—Hrs. of placement of concrete.

2. Spacing shall be maximum of 15'.

CONTRACTION
JOINT — SAWED



TYPICAL JOINTS FOR CONCRETE PAVEMENT SCALE: N.T.S.

SHEET NO.

SŠUED FOR BIDDING AND CONSTRUCTION

DATE: 8/28/19 DRAWN BY: TDM

DESIGNED BY: TDM CHECKED BY: JLR

MCCLURE & BROWNE
ENGINEERING/SURVEYING,
Engineer Reg. No. F-458 · Survey Reg. No. 10
1008 Woodcreek Dr., Suite 103
College Station, Tx. 77845 · (979) 693-383

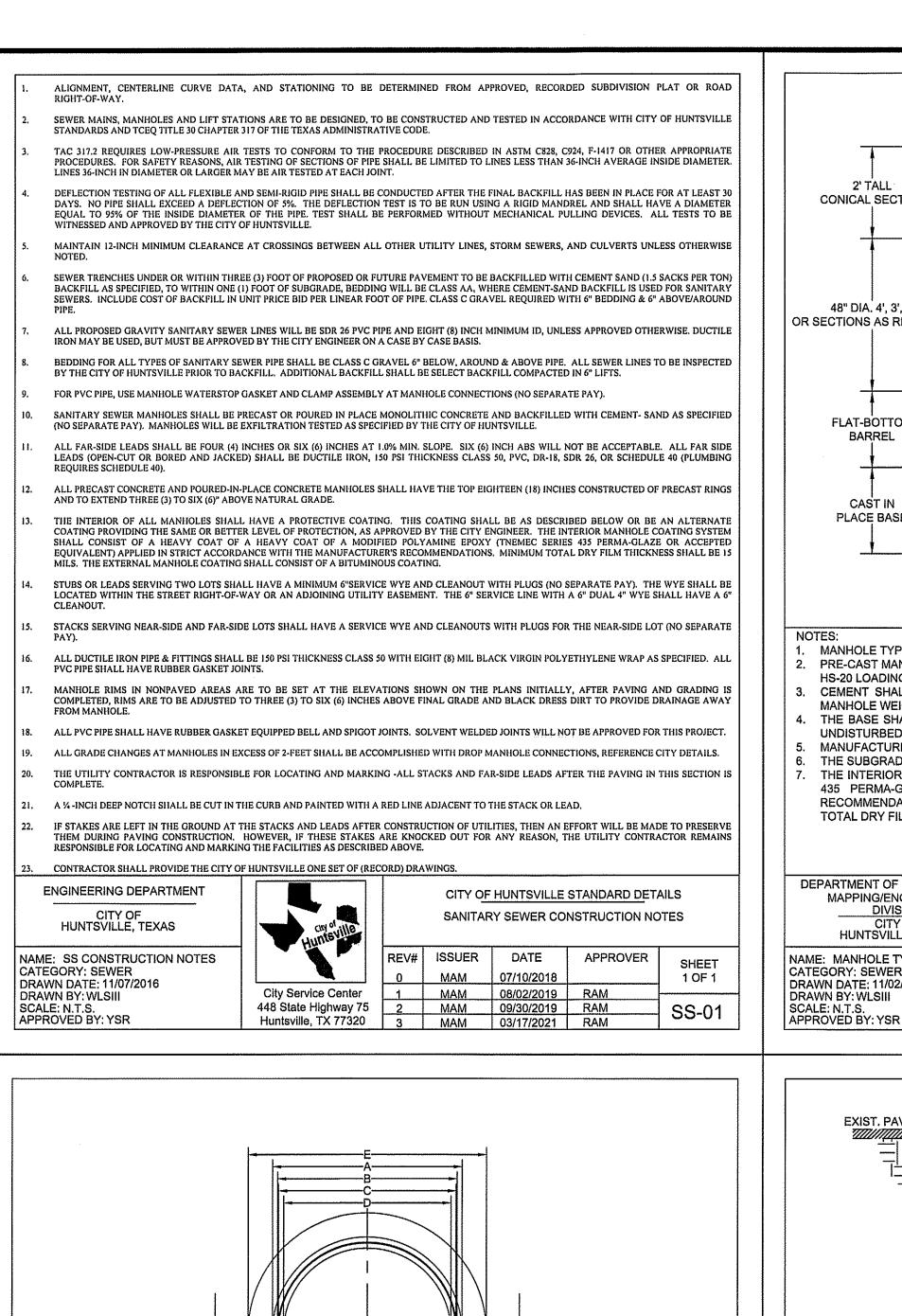
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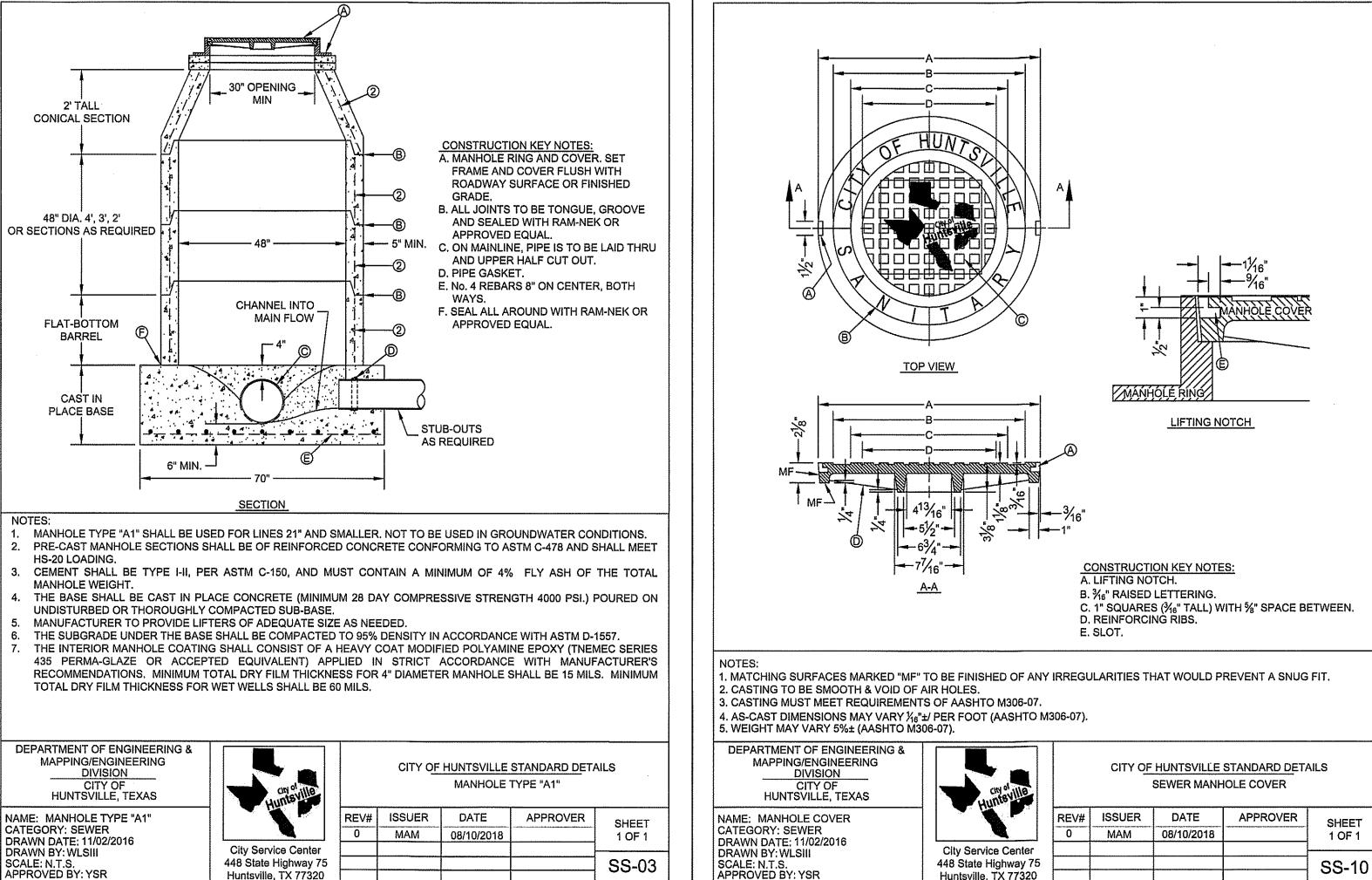
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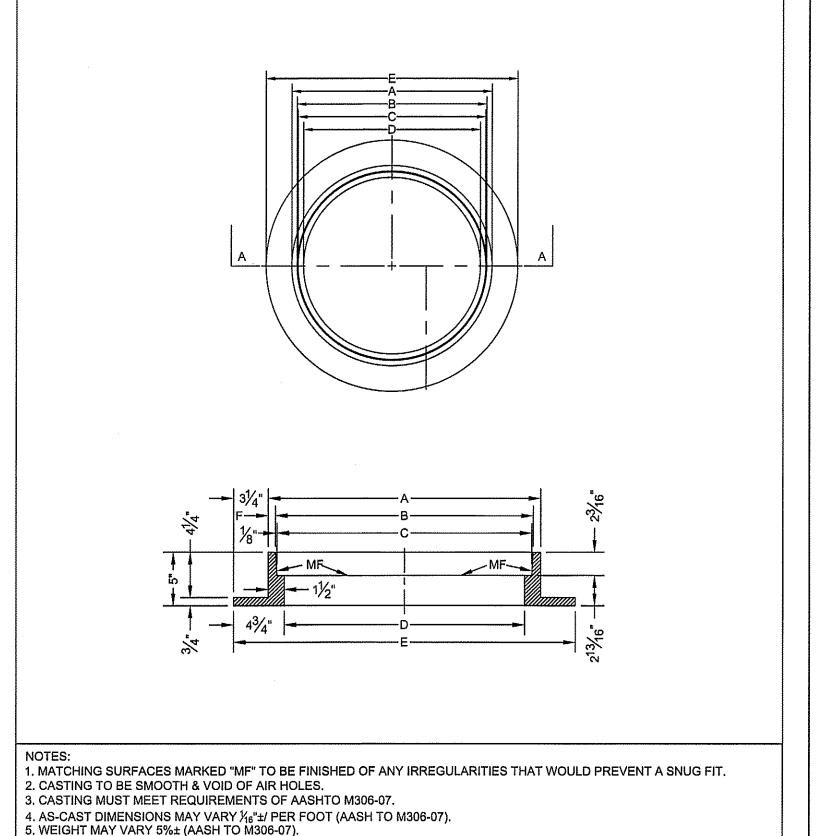
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CITY OF HUNTSVILLE STANDARD DETAILS

MANHOLE RING

APPROVER

1 OF 1

SS-11

REV# ISSUER DATE

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City Service Center

448 State Highway 75

Huntsville, TX 77320

DEPARTMENT OF ENGINEERING &

MAPPING/ENGINEERING

HUNTSVILLE, TEXAS

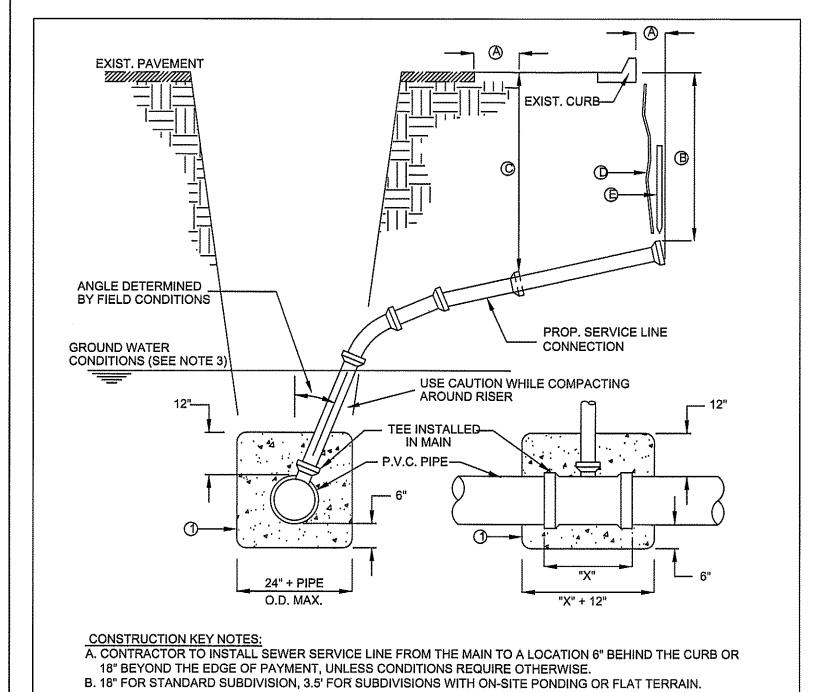
NAME: MANHOLE RING

DRAWN DATE: 11/02/2016

CATEGORY: SEWER

DRAWN BY: WLSIII SCALE: N.T.S.

APPROVED BY: YSR



Huntsville, TX 77320

C. RISERS OR LATERALS EXTENDING BEYOND EXISTING PAVING SHALL BE INSTALLED TO 3.5' MINIMUM TOP OF GROUND OR PAVEMENT, UNLESS CONDITIONS REQUIRE OTHERWISE D. PLASTIC METALLIC MARKING TAPE RISING TO WITHIN 6" OF GROUND SURFACE OR METALLIC DISK. E. WOODEN STAKE (1"x2"x36") VERTICALLY PLACED AT PLUGGED END OF PROPOSED SERVICE LINE.

1. IN GROUNDWATER CONDITIONS ONLY, P.V.C. SADDLES OR TEES ARE TO BE ENCASED WITH CLASS B CONCRETE. 2. UNDER CERTAIN CONDITIONS FIELD INVESTIGATIONS WILL BE REQUIRED TO DETERMINE THE ADEQUACY OF THE DEPTH 3. WHEN GROUND WATER IS ENCOUNTERED SERVICE RISER SHALL BE EXTENDED ABOVE ANTICIPATE WATER TABLE LEVEL.

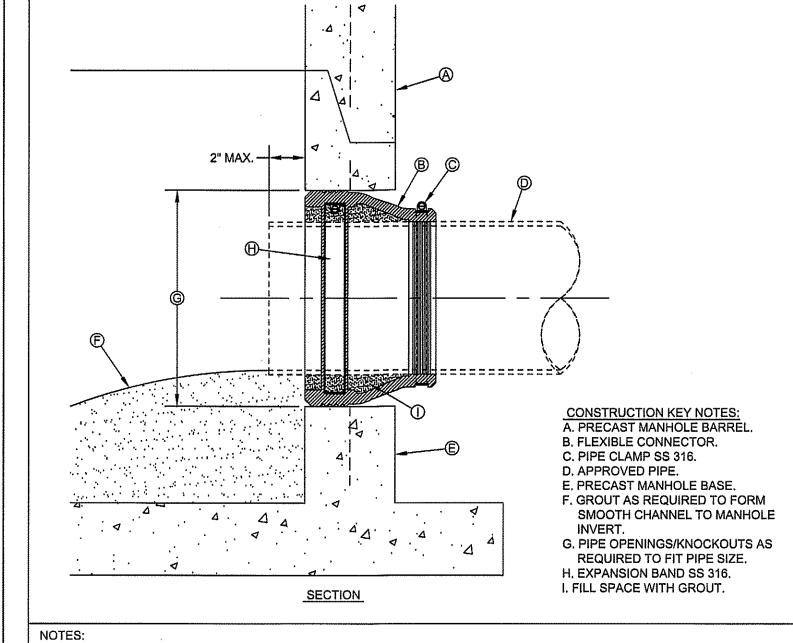
DEPARTMENT OF ENGINEERING & MAPPING/ENGINEERING DIVISION CITY OF HUNTSVILLE, TEXAS	
NAME: SERVICE RISER AND LINE CATEGORY: SEWER DRAWN DATE: 11/02/2016	
DIVITIONIE, INCLES TO	0140

DRAWN BY: WLSIII

APPROVED BY: YSR

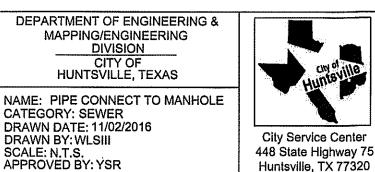
SCALE: N.T.S.

Hinte ville	CITY OF HUNTSVILLE STANDARD DETAILS SEWER SERVICE RISER AND SERVICE LINE CONNECTION					
	REV#	ISSUER	DATE	APPROVER	SHEET	
	0	MAM	07/10/2018		1 OF 1	
City Service Center 448 State Highway 75 Huntsville, TX 77320					SS-15	



Huntsville, TX 77320

1. MANHOLE CONNECTOR SHALL BE KOR-N-SEAL OR EQUAL MEETING THE REQUIREMENTS OF ASTM C-923. CONNECTOR SHALL BE FURNISHED BY CONTRACTOR.



MAPPING/ENGINEERING

HUNTSVILLE, TEXAS

CATEGORY: SEWER

DRAWN BY: WLSIII

SCALE: N.T.S. APPROVED BY: YSR

DRAWN DATE: 11/02/2016

CITY OF HUNTSVILLE STANDARD DETAILS PIPE CONNECTION TO MANHOLE ISSUER DATE APPROVER

7/10/2018

SŠUED FOR BIDDING

AND CONSTRUCTION

DATE: 8/28/19 DRAWN BY: TDM

DESIGNED BY: TDM

CHECKED BY: JLR

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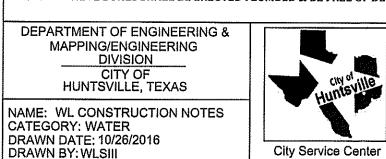
SS-26

WATERLINE CONSTRUCTION NOTES

- ALL WATERLINE CONSTRUCTION TO BE ACCOMPLISHED IN ACCORDANCE WITH THE LATEST EDITION OF THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) RULES AND REGULATIONS FOR PUBLIC WATER SYSTEMS AS CODIFIED UNDER TITLE 30 TEXAS
- ALL WATERLINES TO BE LOCATED INSIDE PUBLIC ROAD RIGHTS-OF-WAYS AND PUBLIC EASEMENTS. CITY REPRESENTATIVE TO INSPECT & APPROVE PRIOR TO BACKFILL.
- ALL WATER MAINS 4" TO 16" SHALL BE C-909 (DR-18) AND ALL WATER MAINS 20" TO 24" SHALL BE C-900 (DR-18).
- TWELVE (12) INCH OR SMALLER WATERMAINS TO HAVE A MINIMUM COVER OF FOUR (4) FEET. VARY FLOW LINE UNIFORMLY FROM DEPTH AND LOCATION SHOWN IN PLANS.
- WATERLINE FITTINGS TO BE CAST OR DUCTILE IRON WITH POLYETHYLENE WRAP AS SPECIFIED UNLESS OTHERWISE NOTED. MAINTAIN 12-INCH MINIMUM CLEARANCE AT CROSSINGS BETWEEN ALL WATERLINES AND ALL UTILITIES INCLUDING STORM SEWERS AND
- WATERLINES SHALL BE BEDDED AS SHOWN IN THE CITY OF HUNTSVILLE DETAILS. ALL WATER LINES TO BE INSPECTED BY CITY OF HUNTSVILLE PRIOR TO BACKFILL.
- WATERLINE TRENCHES UNDER OR WITHIN THREE (3) FEET OF PROPOSED OR FUTURE PAVEMENT SHALL BE BACKFILLED PER THE CITY OF HUNTSVILLE DETAILS.
- ALL 2" THRU 12" GATE VALVES FOR THIS PROJECT SHALL BE IN ACCORDANCE WITH AWWA C509 AND BE MANUFACTURED BY MUELLER. AMERICAN-DARLING, OR APPROVED EQUAL RESILIENT SEAT GATE VALVES AND SHALL OPEN IN A COUNTER CLOCKWISE DIRECTION ONLY. VALVES ON ALL TAPPING SLEEVES ARE TO BE OF THE SAME TYPE.
- 10. VALVES TO BE LOCATED OPPOSITE PROPERTY CORNER WHERE APPROPRIATE.
- 11. ALL VALVE BOXES SHALL BE ADJUSTED TO FINISHED GRADE AFTER PAVING IS COMPLETE.
- 12. ALL FIRE HYDRANTS SHALL BE MANUFACTURED BY MUELLER OR AMERICAN-DARLING. EQUIP EACH FIRE HYDRANT WITH TWO (2) TWO AND ONE-HALF (2 1/2) INCH NOMINAL INSIDE DIAMETER HOSE NOZZLES AND ONE (1) FOUR AND ONE-HALF (4 1/2) INCH NOMINAL INSIDE DIAMETER PUMPER NOZZLE WITH NATIONAL STANDARD THREADS ON EACH NOZZLE.
- 13. CONTRACTOR SHALL PROVIDE ADEQUATE THRUST BLOCKING TO WITHSTAND TEST PRESSURES SPECIFIED BY THE TCEQ AND THE CITY OF HUNTSVILLE STANDARD DETAILS.
- 14. ALL WATERLINE TESTING SHALL BE WITNESSED AND APPROVED BY THE CITY OF HUNTSVILLE.
- 15. 12-GAUGE LOCATOR WIRE TO BE INSTALLED ON ALL WATER LINES & FORCE MAINS, TO BE ACCESSIBLE AT VALVE STACKS.
- 16. ALL TS&VS SHALL BE FULL BODY STAINLESS STEEL.

CULVERTS UNLESS OTHERWISE NOTED.

- 17. I WATER SAMPLE PER 1000 FEET SHALL BE SUBMITTED TO A TEXAS DEPARTMENT OF HEALTH APPROVED LABORATORY AND SHALL BE FREE OF ANY CONTAMINATES, PRIOR TO BEING PUT IN SERVICE.
- 18. DISINFECTION OF NEW AND REPAIRED WATER MAINS SHALL BE IN CONFORMANCE WITH AWWA C651. ALL NEW WATER MAINS SHALL BE DISINFECTED BEFORE THEY ARE PLACED IN SERVICE. ALL WATER MAINS TAKEN OUT OF SERVICE FOR INSPECTING, REPAIRING OR OTHER ACTIVITY, WHICH MIGHT LEAD TO CONTAMINATION OF WATER, SHALL BE DISINFECTED BEFORE THEY ARE RETURNED TO SERVICE, (NO
- 19. CONTRACTOR TO INSTALL RAY-O-LITE OR EQUAL 4" X 4" BLUE REFLECTORIZED PAVEMENT MARKERS 6" OFF CENTER OF ROADWAY ON FIRE
- 20. WATERLINE 8" OR GREATER SHALL BE CONSTRUCTED SUCH THAT ALL CROSSINGS WITH SANITARY SEWER OR SANITARY SEWER LEADS SHALL CENTER ONE FULL SECTION OF WATERLINE AT THE SANITARY SEWER CROSSING, WATERLINE SHALL BE AT LEAST 2 FEET ABOVE SANITARY LINE. WHERE WATERLINE CROSSES UNDER SANITARY SEWER LINES. WATERLINE SEGMENT SHALL BE ENCASED IN PIPE AT LEAST TWO NOMINAL PIPE DIAMETERS LARGER THAN WATERLINE AND MAINTAIN 1-FOOT VERTICAL CLEARANCE FROM SANITARY LINE.
- WHERE WATERLINE CROSSES UNDER SANITARY SEWER LINE, BOTH SEGMENTS MUST PASS A PRESSURE AND LEAKAGE TEST AS SPECIFIED BY TCEQ UNDER 30 TAC, CHAPTER 290 AND IN AWWA C600 STANDARDS.
- 22. ALL VALVE BOXES SHALL BE ERECTED PLUMBED & BE FREE OF DEBRIS.



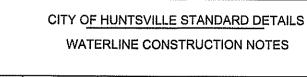
SCALE: N.T.S.

APPROVED BY: YSR

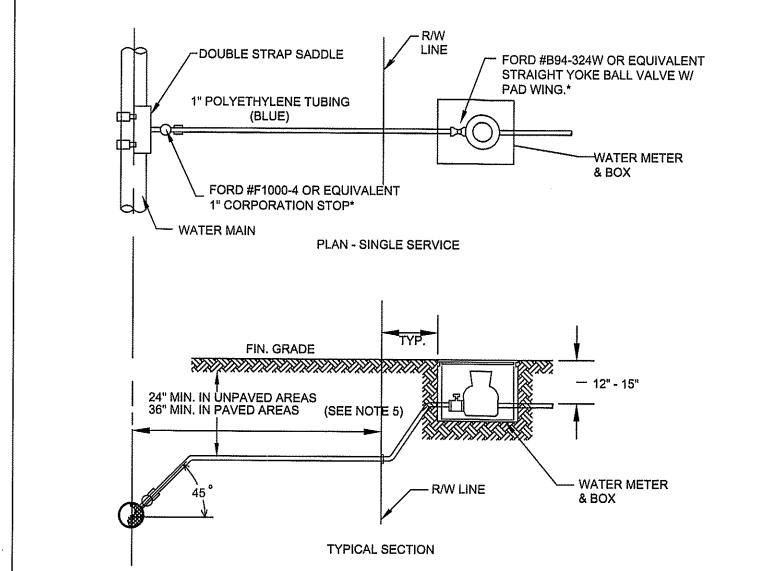
DRAWN DATE: 11/01/2016

DRAWN BY: WLSIII

SCALE: N.T.S. APPROVED BY: YSR



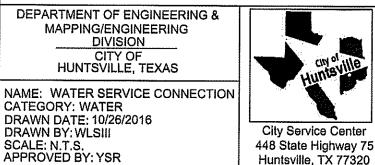
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	REV#	ISSUER	DATE	APPROVER	SHEET
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City Service Center	1	MAM	10/1/2019	RAM -	
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Huntsville, TX 77320					VV-01



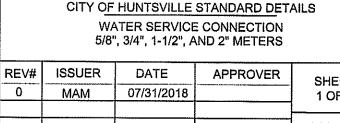
1. CUSTOMER POINT OF SERVICE IS TYPICALLY AT THE LOCATION WHERE CUSTOMER PLUMBING IS ATTACHED TO THE

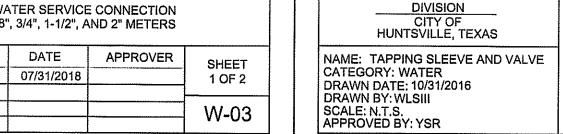
- 3" COPPER TUBING FOR 3" X 1 METER INSTALLATION. 1" COPPER TUBING FOR 1" METER INSTALLATION. HDPE SHALL BE 200 PSI, NSF APPROVED, SDR 9, MEETING ASTM D1248. TUBING SHALL BE ENDOT ENDOTRACE (OR APPROVED EQUAL).
- REDUCED PRESSURE BACKFLOW PREVENTERS ARE REQUIRED FOR ALL COMMERCIAL SERVICES AND SHALL BE INSTALLED BY A CERTIFIED TECHNICIAN AT OWNERS EXPENSE. ALL SERVICE TAPS SHALL BE NO CLOSER THAN 2'-0" STAGGERED INTERVAL OR WITHIN 2'-0" OF BELL OR SPIGOT ENDS.
- IN AREAS TO BE PAVED PROVIDE A 2" MIN. PVC SCHEDULE 40 SLEEVE FOR PE-TUBING. SLEEVE SHALL EXTEND A MIN. OF 2' BEHIND BACK OF CURB AT EACH SIDE OF ROAD. WATER METERS INSTALLED IN AREAS SERVED BY RECLAIMED WATER SHALL BE EQUIPPED WITH A DUAL CHECK
- WATER METERS IN AREA SERVED WITH AN ALTERNATE IRRIGATION SUPPLY SHALL BE EQUIPPED WITH BACKFLOW

9.	PREVENTION TO BE APPROVED FOR USE BY CITY OF HUNTSVILLE. THE CITY OF HUNTSVILLE WILL MAKE ALL STANDARD RESIDENTIAL WATER SERVICE CONNECTIONS, UNLESS WRITTE APPROVAL TO DO OTHERWISE HAS BEEN GRANTED BY THE CITY.



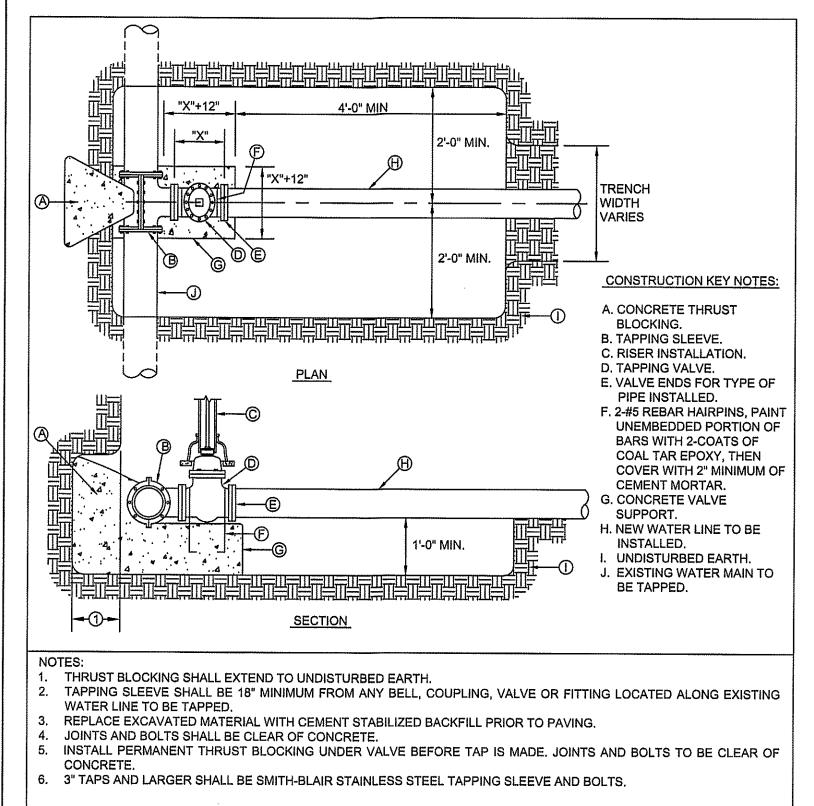
BACKFLOW PREVENTER.

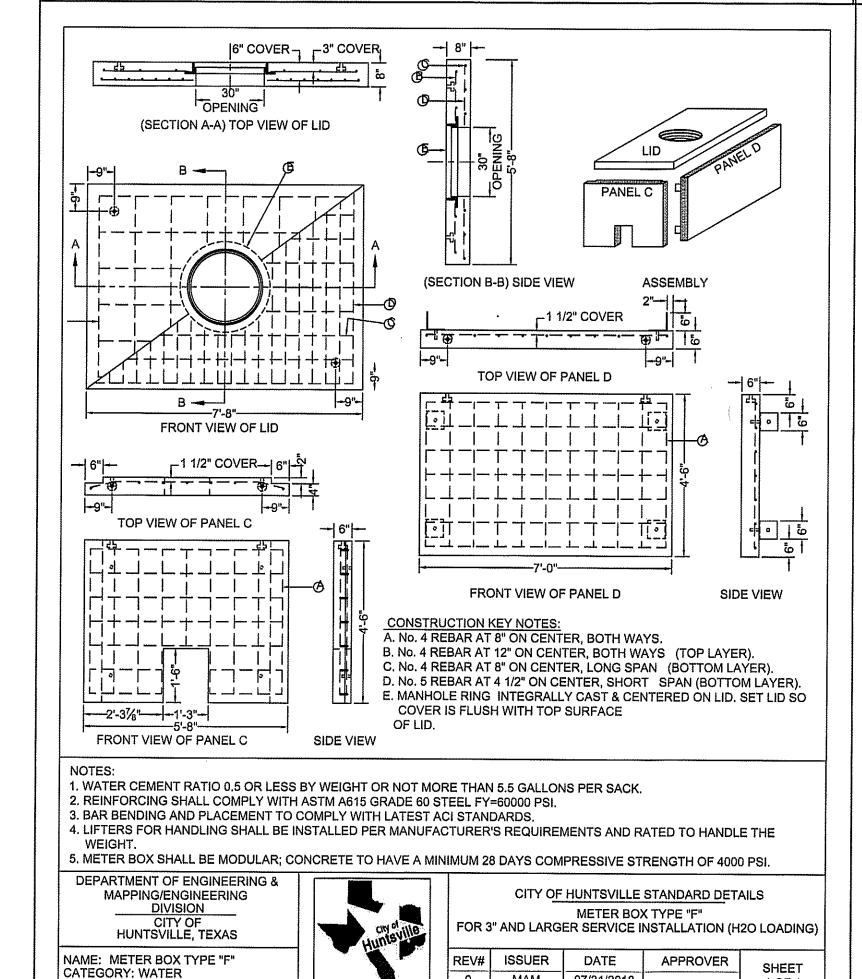




DEPARTMENT OF ENGINEERING &

MAPPING/ENGINEERING





City Service Center

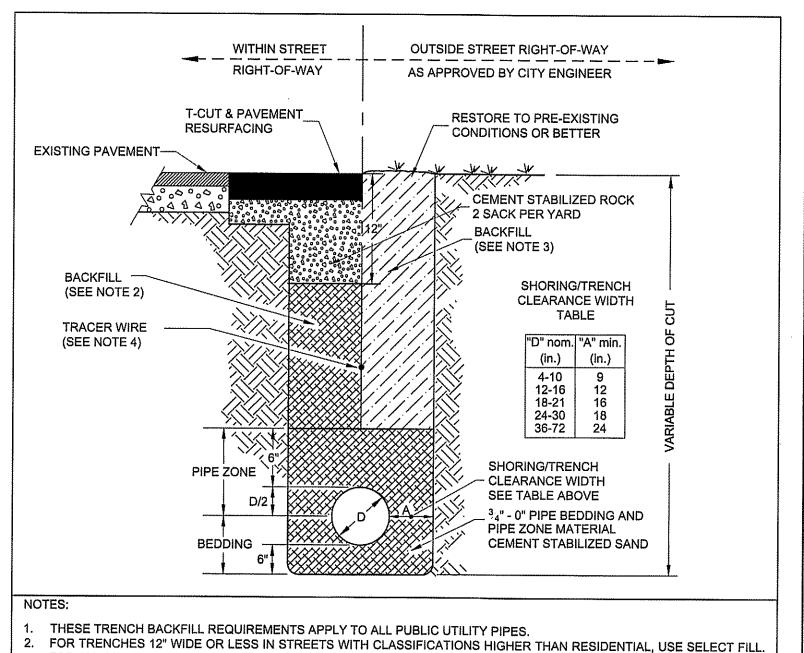
448 State Highway 75

Huntsville, TX 77320

MAM 07/31/2018

1 OF 1

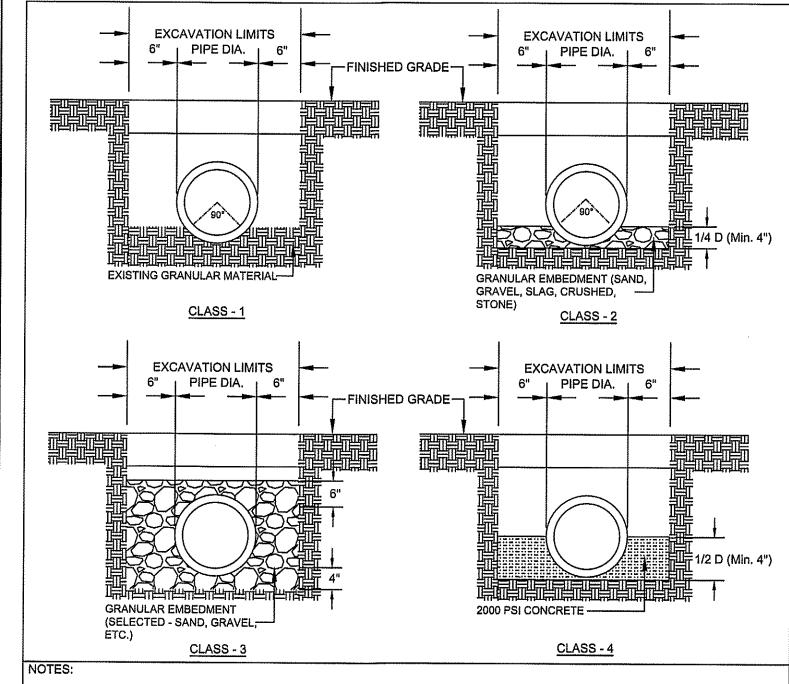
W-48



FOR ALL OTHER TRENCHES, USE 3/4" - 0" AGGREGATE COMPACTED TO 95% OF MAX DENSITY. USE SELECT BACKFILL COMPACTED TO 90% OF MAX DENSITY. 4. TRACER WIRE SHALL BE PLACED ABOVE NON-METALLIC PIPE AND 2 FEET BELOW FINISHED GRADE. RESTORE TO ORIGINAL CONDITIONS OR BETTER.

ENGINEERING DEPARTMENT CITY OF HUNTSVILLE STANDARD DETAILS CITY OF HUNTSVILLE, TEXAS PIPE TRENCH BACKFILL NAME: PIPE TRENCH BACKFILL ISSUER DATE APPROVER SHEET CATEGORY: WATER 07/31/2018 1 OF 1 DRAWN DATE: 10/26/2016 City Service Center MAM 10/16/2019 RAM DRAWN BY: WLSIII 448 State Highway 75 W-54 APPROVED BY: YSR

Huntsville, TX 77320



CLASS OF BEDDING REQUIRED SHALL BE BASED ON THE TYPE OF SOIL ENCOUNTERED IN EXCAVATION.

REFER TO STANDARD SPECIFICATION ITEMS FOR MATERIAL AND CONSTRUCTION REQUIREMENTS.

City Service Center

Huntsville, TX 77320

448 State Highway 75

BACKFILL ABOVE THE BEDDING SHALL CONFORM TO, "UTILITY TRENCH REPAIR" STANDARD DRAWING, SHEET 2 OF 2.

ALL TRENCHES WITHIN 3 FEET OF EXISTING CURB MUST BE BACKFILLED WITH 2 SACK PER CUBIC YARD CEMENT

MINIMUM TRENCH WIDTH SHALL BE PIPE OUTSIDE DIAMETER (O.D.) + 12 INCHES.

STABILIZED SAND.

NAME: PIPE BEDDING

DRAWN BY: WLSIII

APPROVED BY: YSR

SCALE: N.T.S.

DRAWN DATE: 10/18/2016

DEPARTMENT OF ENGINEERING &

MAPPING/ENGINEERING

HUNTSVILLE, TEXAS

CATEGORY: UTILITIES-WATER/SEWER

City Service Center

448 State Highway 75

Huntsville, TX 77320

REV# ISSUER DATE

CITY OF HUNTSVILLE STANDARD DETAILS PIPE BEDDING CLASSES I - IV APPROVER SHEET MAM 07/31/2018 1 OF 2

W-55

CITY OF HUNTSVILLE STANDARD DETAILS

TAPPING SLEEVE AND

VALVE INSTALLTION

APPROVER

SHEET

1 OF 1

W-06

DATE

07/31/2018

REV# ISSUER

EFFERY L. ROBERTSON ISŠUED FOR BIDDING

AND CONSTRUCTION DATE: 8/28/19 DRAWN BY: TDM DESIGNED BY: TDM

HECKED BY: JLR

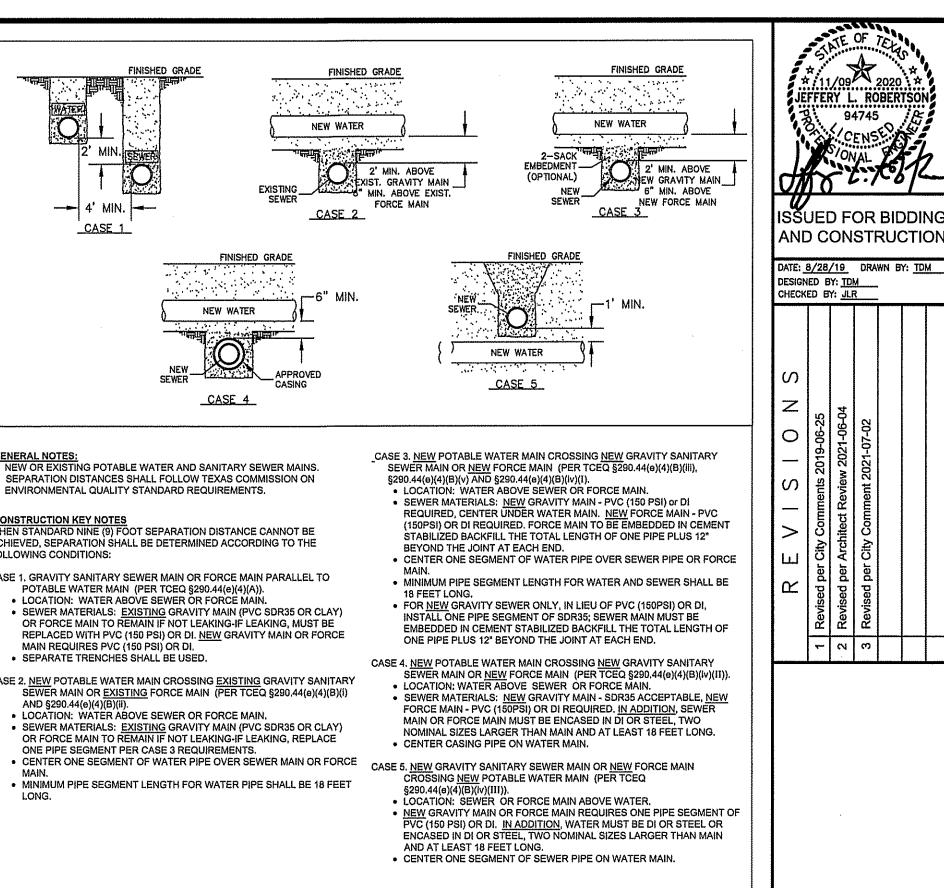
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SHEET NO.

FINISHED GRADE 2' MIN. SEWER 4' MIN. CASE 1
NEW_SEWER
GENERAL NOTES: 1. NEW OR EXISTING POTABLE WATER AND S 2. SEPARATION DISTANCES SHALL FOLLOW ENVIRONMENTAL QUALITY STANDARD RECONSTRUCTION KEY NOTES WHEN STANDARD NINE (9) FOOT SEPARATION ACHIEVED, SEPARATION SHALL BE DETERMIN FOLLOWING CONDITIONS: CASE 1. GRAVITY SANITARY SEWER MAIN OR POTABLE WATER MAIN (PER TCEQ \$29 LOCATION: WATER ABOVE SEWER OR SEWER MATERIALS: EXISTING GRAVIT OR FORCE MAIN TO REMAIN IF NOT LEAR REPLACED WITH PVC (150 PSI) OR DI. MAIN REQUIRES PVC (150 PSI) OR DI. MAIN PVC (150 PSI) OR DI. MAIN PVC (150 PSI) OR DI. MAIN REQUIRES PVC (150 PSI) OR
DEPARTMENT OF ENGINEERING & MAPPING/ENGINEERING DIVISION CITY OF HUNTSVILLE, TEXAS NAME: SEPARATION DISTANCE CATEGORY: WATER DRAWN DATE: 06/08/2018 DRAWN BY: DAC SCALE: N.T.S. APPROVED BY: MMC
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CITY OF HUNTSVILLE STANDARD DETAILS

REV# ISSUER DATE

City Service Center 448 State Highway 75 Huntsville, TX 77320 MAM 07/31/2018

SEPARATION DISTANCE SANITARY SEWER AND POTABLE WATER

SHEET

1 OF 1

W-61

94745

Construction Details

(ISSUE DATE: 04-20-18) (THESE NOTES ARE CONSIDERED SUPPLEMENTAL TO THE GENERAL CONSTRUCTION NOTES)

- 1. STORM SEWER CONSTRUCTION SHALL CONFORM TO THE CITY OF HUNTSVILLE SPECIFICATIONS FOR STORM SEWER
- 2. ALL STORM SEWER TO BE ASTM C-76, CLASS III REINFORCED CONCRETE PIPE WITH RUBBER GASKETED JOINTS CONFORMING TO ASTM C443. CLASS IV RCP REQUIRED UNDER PAVEMENT WITH LESS THEN 2' OF COVER.
- 3. ALL STORM SEWER INLETS SHALL BE BACKFILLED WITH CEMENT STABILIZED SAND (1.5 SACKS PER TON). ALL

BEDDING SHALL BE CLASS "AA". ALL STORM SEWERS TO BE INSPECTED BY THE CITY PRIOR TO BACKFILL.

- 4. ALL STORM SEWER TRENCHES UNDER PROPOSED AND FUTURE PAVEMENT OR WITHIN THREE-FOOT (3') FROM BACK OF CURB TO BE BACKFILLED WITH CEMENT STABILIZED SAND (1.5 SACKS PER TON) TO A POINT OF ONE FOOT (1) BELOW PAVEMENT SUBGRADE. THE REMAINING BACKFILL TO BE MADE WITH COMPACTED SELECT MATERIAL. COST OF BACKFILL AND BEDDING TO BE INCLUDED IN UNIT PRICE PER LINEAR FOOT OF PIPE.
- HIGH DENSITY POLYETHYLENE PIPE MAY BE SUBSTITUTED ON PRIVATE PROPERTY AND ON PUBLIC ROW (ON A CASE-BY-CASE BASIS), APPROVED BY THE CITY ENGINEER, FOR REINFORCED CONCRETE PIPE SUBJECT TO THE
 - a) FOR PIPES 36" AND SMALLER CEMENT STABILIZED SAND PLACED BEFORE PIPE IS LAID, TO 7" MIN. BEDDING DEPTH. FOR SEWERS 42"-60" CEMENT STABILIZED SAND PLACED BEFORE PIPE IS LAID, TO 10" MIN. BEDDING DEPTH. THE SIDES SHALL BE 12" MIN. FROM EDGE OF TRENCH TO SPRINGLINE.
 - b) CEMENT STABILIZED SAND SHALL BE THOROUGHLY RODDED, PLACED AND COMPACTED TO 95% STANDARD PROCTOR DENSITY 1'-0" ABOVE THE TOP OF PIPE, AFTER PIPE IS LAID. c) PIPE AND FITTINGS: THE TYPES OF PIPE WILL BE INDICATED ON THE DRAWINGS BY THE FOLLOWING DESCRIPTION CONFORMING TO AASHTO M 252, AASHTO M 294, AND/OR AASHTO MP6-95, LATEST EDITION. PIPE DESCRIPTION: CPP (CORRUGATED POLYETHYLENE PIPE).

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DEPARTMENT OF ENGINEERING & MAPPING/ENGINEERING HUNTSVILLE, TEXAS NAME: CONSTRUCTION NOTES CATEGORY: STORM DRAINAGE DRAWN DATE: 11/22/2016

DRAWN BY: WLSIII

APPROVED BY: YSR

SCALE: N.T.S. APPROVED BY: YSR

AND A SMOOTH INNER LINE).

City Service Center 448 State Highway 75 Huntsville, TX 77320

CITY OF HUNTSVILLE STANDARD DETAILS CONSTRUCTION NOTES REV# ISSUER DATE APPROVER MAM

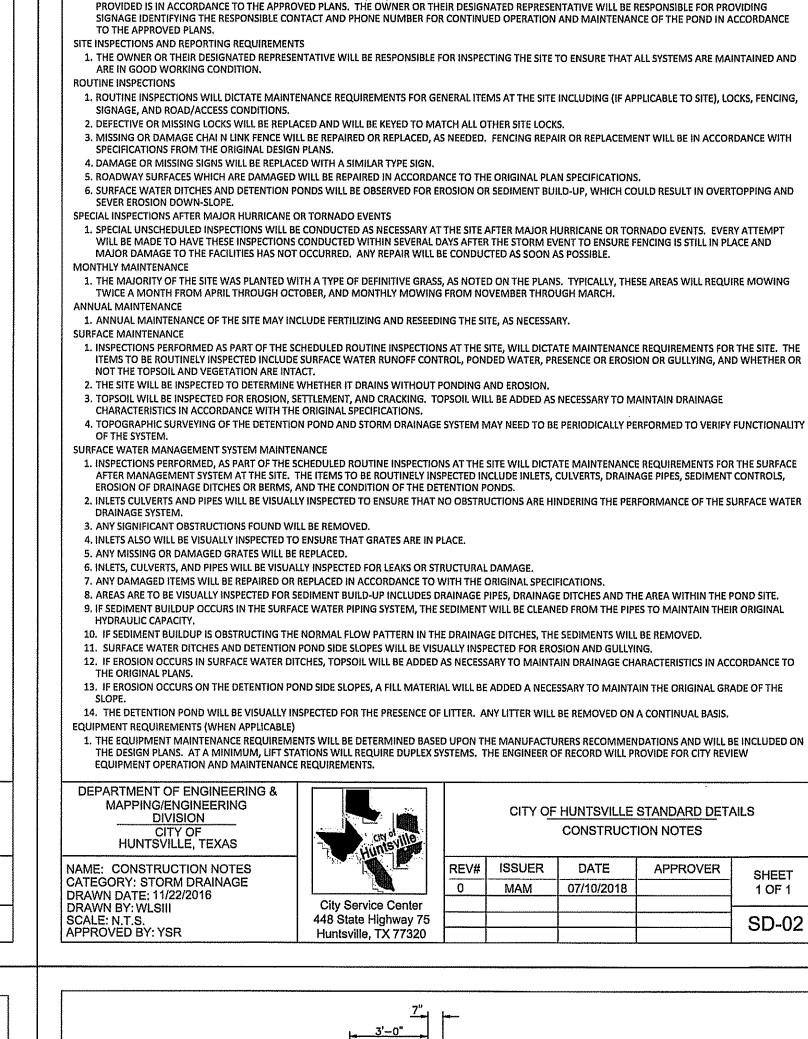
d) TYPE S (THIS PIPE SHALL HAVE A FULL CIRCULAR CROSS-SECTION, WITH AN OUTER CORRUGATED PIPE WALL

1 OF 1

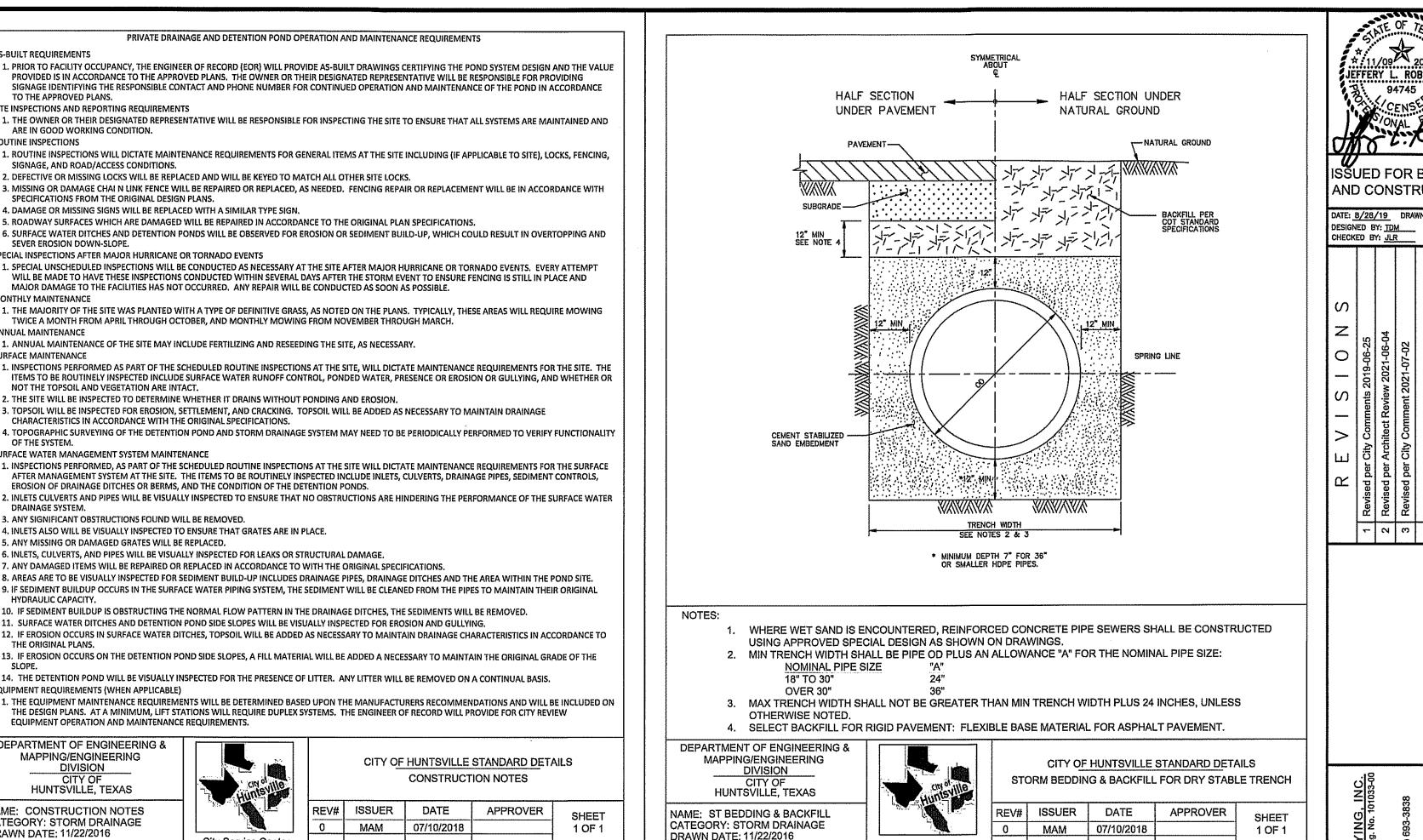
SD-01

SD-13

AS-BUILT REQUIREMENTS

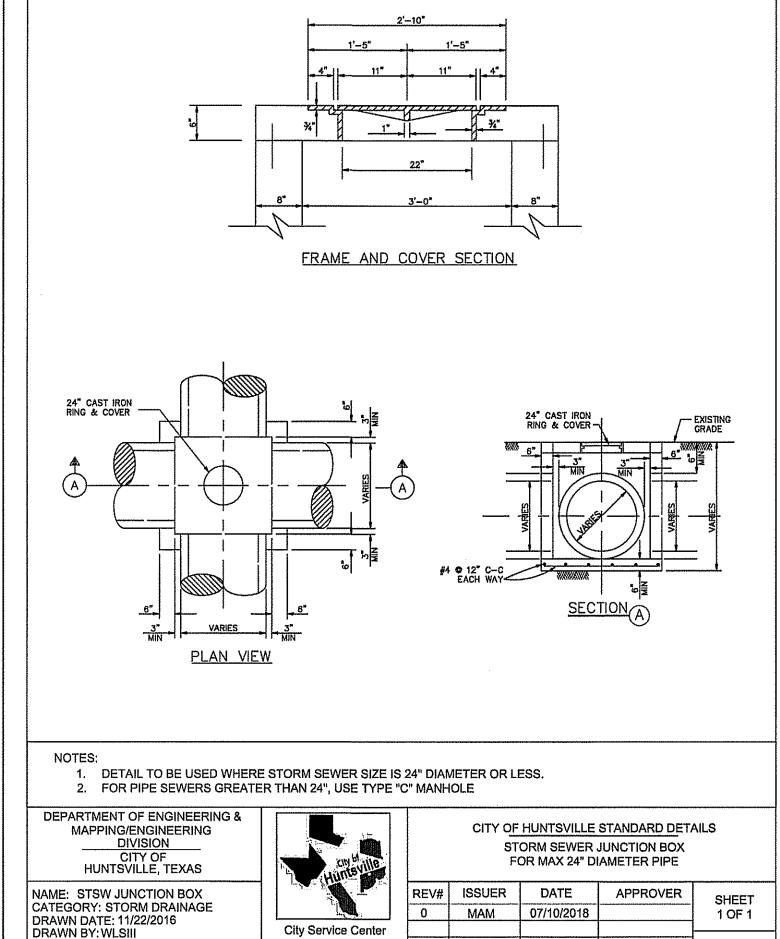


PRIVATE DRAINAGE AND DETENTION POND OPERATION AND MAINTENANCE REQUIREMENTS



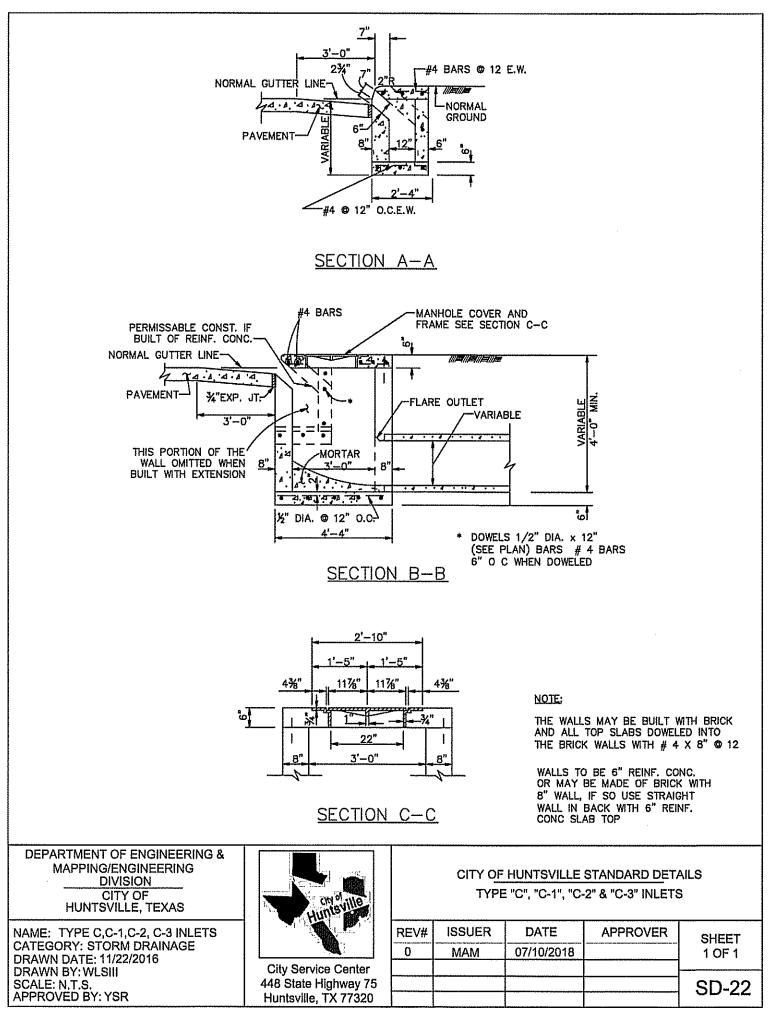
City Service Center

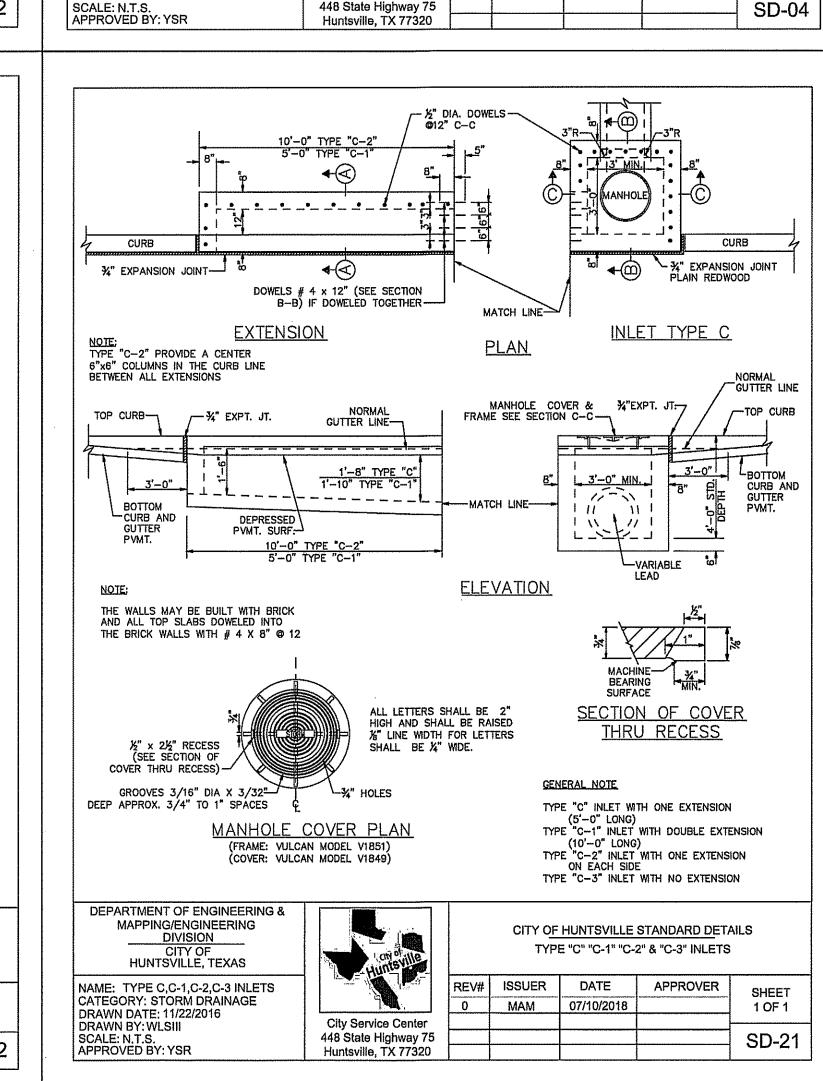
DRAWN BY: WLSIII

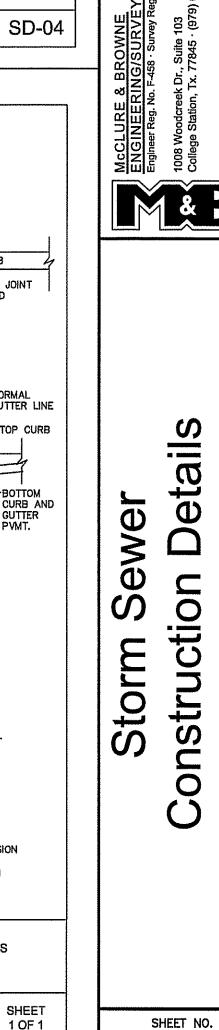


448 State Highway 75

Huntsville, TX 77320







ISŠUED FOR BIDDING

AND CONSTRUCTION

DATE: 8/28/19 DRAWN BY: TDM

- 2 6

CHECKED BY: JLR