# City of Hilshire Village, Texas Hickory Shadows Drive Paving, Drainage & Water Line Improvements July, 2025



VICINITY MAP NOT TO SCALE HARRIS COUNTY KEY MAP 491B



# MAYOR

Robert (Bob) Buesinger

# COUNCIL

Mike Gordy Andy Carey Matthew Butts Justin Crawford David Schwarz

# **CITY SECRETARY**

**Cassie Stephens** 



SUBMITTED BY:







HDR PROJECT NO. 10418041

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SHEET No.	SHEET TITLE			
GENER	RAL			
01 02 03 04 04A 05 06	COVER SHEET GENERAL CONSTRUCTION NOTES LEGEND & ABBREVIATIONS SURVEY CONTROL MAP OVERALL SURVEY CONTROL DETAILS OVERALL LAYOUT DRAINAGE AREA MAP AND CALCULA	TIONS		
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<u>CONS</u>	TRUCTION DETAILS			
21 22 23 24 25 26	PAVING DETAILS I PAVING DETAILS II STORM SEWER DETAILS I STORM SEWER DETAILS II WATER DETAILS I WATER DETAILS II			
TREE P	PROTECTION PLAN			
27 28	TREE PROTECTION PLAN (SHEET I TREE PROTECTION PLAN (SHEET 2			
Kim be	DAT	E:	7-1-2025	

HDR ENGINEERING, INC

DATE:

ROBERT (BOB) BUESINGER MAYOR, CITY OF HILSHIRE VILLAGE

О <b>с</b> 1.	NERAL NOTES: CONTRACTOR SHALL NOTIFY THE CITY OF HILSHIRE VILLAGE AT		ILITY & PAVING NOTE
	(713) 973–1779 AND THE ENGINEER AT (713) 622–9264 48 HOURS PRIOR TO START OF CONSTRUCTION.	1.	THE CONTRACTOR'S SURVEYOR AND SHALL VERIFY THE LOCATI TO CONSTRUCTION.
2.	CONTRACTOR SHALL CONTACT ALL PERTINENT UTILITY COMPANIES 48 HOURS (MINIMUM) PRIOR TO EXCAVATION IN AREA. THE HOUSTON AREA UTILITY COORDINATING COMMITTEE MAY BE CONTACTED FOR CERTAIN UTILITIES AT (713) 223-4567 OR TOLL FREE 1-800-669-8344 48 HOURS BEFORE BEGINNING WORK.	2.	RELOCATE ALL EXISTING PRIVA- LOCATION AND ELEVATIONS OF APPROXIMATE AND SHALL BE A CONSTRUCTION. RELOCATION OF CONTRACTOR'S EXPENSE.
3.	CONTRACTOR SHALL COORDINATE ANY UTILITY CONSTRUCTION THAT MAY DISRUPT SERVICE WITH THE CITY OF HILSHIRE VILLAGE (CASSIE STEPHENS, CITY SECRETARY, 713–973–1779.) AND THE CITY'S OPERATOR (ST	3.	PROVIDE ONE FOOT (1') MINIMU UTILITIES (NEW OR EXISTING).
	SERVICES @ 281-578-4200). NOTIFY CITY 24 HOURS IN ADVANCE. PROPERTY OWNERS SHALL BE NOTIFIED IN WRITING BY THE CONTRACTOR,	4.	CONTRACTOR SHALL COMPLY W LAW CONCERNING EXCAVATION,
	BETWEEN 48 HOURS AND 7 DAYS IN ADVANCE OF DISTURBANCE OF DRIVEWAYS. PROPERTY OWNER SHALL BE PROVIDED THE MINIMUM FOLLOWING INFORMATION: WORK TO BE PERFORMED, STARTING AND ENDING DATES, THE NAME AND NUMBER OF CONTRACTOR'S REPRESENTATIVE, AND NAME OF HILSHIRE VILLAGE OFFICIAL TO BE CONTACTED FOR QUESTIONS. WRITTEN NOTICES SHALL BE APPROVED BY HILSHIRE VILLAGE PRIOR TO DISTRIBUTION.	5.	CONTRACTOR SHALL MAINTAIN CONSTRUCTION AND SHALL RES OR BETTER CONDITION, IF DISTU ADDITIONAL COST TO THE CITY.
	TEXAS LAW ARTICLE 1436C, PROHIBITS ALL ACTIVITIES IN WHICH PERSONS OR EQUIPMENT MAY COME WITHIN SIX FEET OF ENERGIZED OVERHEAD POWER LINES, AND FEDERAL REGULATIONS, TITLE 29, PART 1910.180(I) AND PART 1926.550(A)(15) REQUIRE A MINIMUM CLEARANCE OF TEN FEET FROM	6.	ALL EXCAVATION AREAS MUST MINIMUM OF TWO STRANDS OF CONSTRUCTION FENCE ACCEPTA FLASHING YELLOW LIGHTS SHAL VEHICLE TRAFFIC.
	THESE FACILITIES. THE ABOVE LAWS CARRY BOTH CRIMINAL AND CIVIL LIABILITIES, WITH CONTRACTORS AND OWNERS BEING LEGALLY RESPONSIBLE FOR THE SAFETY OF WORKERS UNDER THESE LAWS. IF YOU OR YOUR COMPANY MUST WORK NEAR OVERHEAD POWER LINES, CALL (713) 228-7400	7. 8.	ALL PAVEMENTS OUTSIDE THE I CONSTRUCTION SHALL BE REPL THE SATISFACTION OF THE ENG UNIT PRICE ITEM FOR REMOVAL
5.	FOR THE LINES TO BE DE-ENERGIZED AND/OR MOVED AT YOUR EXPENSE. IN THE EVENT A GAS LINE IS EXPOSED DUE TO EXCAVATION AND IS IN NEED OF RELOCATION, THE APPROPRIATE GAS COMPANY SHALL BE CONTACTED BY THE CONTRACTOR TO HAVE STATUS OF THE LINE VERIFIED. CONTRACTOR IS RESPONSIBLE FOR HAVING THE GAS COMPANY RELOCATE THE GAS LINES	Ο.	SHALL INCLUDE THE REPLACEM REINFORCED CONCRETE OR ASF EXISTING DRIVEWAY IS MADE OF IN ACCORDANCE WITH THE FOL
7.	WITHIN THE RIGHT OF WAY. SEE NOTE FOR CENTERPOINT ENERGY THIS PAGE. THE PREPARATION OF THESE PLANS REFLECT INFORMATION PROVIDED BY OTHERS ON THE APPROXIMATE LOCATION AND EXISTENCE OF EXISTING UTILITIES AND ADJACENT PHYSICAL FEATURES; HOWEVER, THEY DO NOT		Existing Driveway Mat Concrete Concrete with decorative pavi Concrete with asphalt Asphalt with decorative pavir
	IMPLY OR AFFIRM THAT ALL UTILITIES OR PHYSICAL FEATURES ARE SHOWN. GENERALLY, UTILITY SERVICE CONNECTIONS ARE NOT INDICATED ON THESE PLANS. CONTRACTOR IS RESPONSIBLE FOR NOTIFICATION OF THE OWNER IMMEDIATELY UPON ENCOUNTERING UNFORESEEN CONFLICTS.	9.	Gravel/Other DECORATIVE DRIVEWAYS AND S LIMITS. CONTRACTOR SHALL CO PROPERTY OWNERS TO PAY TH
3.	IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE DEPTH, LOCATION AND EXISTENCE OF ALL EXISTING UTILITIES WHICH MAY CONFLICT WITH THE PROPOSED CONSTRUCTION, PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES.		REPLACEMENT/UPGRADE OF AN USED ON THEIR DRIVEWAYS AN IN MATERIALS SHALL BE MADE CONTRACTOR, WITH THE CITY'S DISPUTE RESOLUTION.
9.	RIGHTS OF WAY INDICATED ARE APPROXIMATE. CONTRACTOR SHALL VERIFY EXACT LIMITS OF RIGHT OF WAY PRIOR TO CONSTRUCTION.	10.	DRIVEWAY AND SIDEWALK REPL LOCATION OF THE EXISTING FAC
0.	THE CONTRACTOR SHALL MAINTAIN ACCESS TO RESIDENTIAL AND COMMERCIAL PROPERTIES ADJACENT TO WORK AREAS AT ALL TIMES.	11.	PARKING AREAS BUILT WITHIN S SHOWN ON THE PLANS AND IN
1.	NO EXCAVATIONS SHALL BE LEFT OPEN OVERNIGHT. ALL EXCAVATIONS WHICH CANNOT BE BACKFILLED OVERNIGHT SHALL BE COVERED. USE STEEL PLATES WHEN IN PAVED AREAS; IN OTHER AREAS USE 3/4" PLYWOOD, WOOD PLANKING OR OTHER MATERIAL APPROVED BY THE CITY. THE EXCAVATION AREA MUST BE WELL PROTECTED WITH TRAFFIC BARRICADES EQUIPPED WITH FLASHING YELLOW LIGHTS, DURING ACTIVE CONSTRUCTION PERIODS. THE EXCAVATION AREAS MUST BE COMPLETELY CORDONED OFF WITH PLASTIC	12.	WAY PREPARATION. COST TO PROJECT, UNLESS OTHERWISE N THESE PARKING AREAS IS NOT LARGE MASONRY MAILBOXES AN EXIST WITHIN THE PROJECT ARE REMOVE AND RELOCATE ANY M
	TAPE OR CONSTRUCTION FENCE WHEN CONSTRUCTION IS NOT ACTIVELY PROGRESSING.		RIGHT-OF-WAY OUT OF HARMS PROPERTY OWNERS AND ENGIN RELOCATION OF THESE FACILITI
12.	THE CONTRACTOR SHALL CONDUCT HIS 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 DONE DAILY	13	RELOCATION OF MAILBOXES IS OTHERWISE NOTED IN THE BID THE RESIDENTS AT 1 HICKORY
13.	STREETS SHALL BE DONE DAILY. IT IS IMPERATIVE THAT THE CONSTRUCTION IN THE PROJECT AREA INCONVENIENCE THE RESIDENTS OF THE AREA AS LITTLE AS POSSIBLE. CLEAN-UP SHALL BE COMPLETED AND MAINTAINED WITHIN ONE BLOCK BEHIND ALL CONSTRUCTION OF UTILITIES AND PAVING. CLEAN-UP INCLUDES COMPACTION OF BACKFILL, CLOSURE OF BORE PITS, AND SURFACE RESTORATION. NEW CONSTRUCTION OPERATIONS TO BE SUSPENDED TEMPORARILY IF COMPLETE CLEAN-UP IS FURTHER THAN ONE BLOCK BEHIND CONSTRUCTION.		THEIR DRIVEWAY AND HOME. CO TO DRIVEWAY THROUGHOUT THE PLANS.
14.	ANY AREA OF GRASS WHICH IS DISTURBED OR DUG UP DURING THE CONSTRUCTION SHALL BE REPLACED WITH ST. AUGUSTINE SOD OR GRASS WHICH MATCHES THE GRASS REMOVED, AT NO ADDITIONAL COST TO THE CITY. WHEN CONSTRUCTION OCCURS IN CITY RIGHTS-OF-WAY AND EASEMENTS ON RESIDENTIAL YARD AREAS, CARE SHALL BE TAKEN TO MINIMIZE CONSTRUCTION DAMAGE TO YARD AREAS.		
15.	CONTRACTOR SHALL ADEQUATELY PROTECT EXISTING STRUCTURES, SPRINKLER SYSTEMS, LANDSCAPING, UTILITIES, POWER POLES, TREES, SHRUBS AND OTHER PERMANENT OBJECTS. TREES SHALL NOT BE REMOVED OR DISTURBED UNLESS OTHERWISE NOTED IN THE TREE PROTECTION PLANS. WHERE TREE ROOTS MUST BE CUT, FOLLOW THE REPAIR METHODS DESCRIBED IN THE SPECIFICATIONS AND TREE PROTECTION PLANS. ALL COST FOR REPAIRS OR REPLACEMENT OF DAMAGE DUE TO CONTRACTOR'S PERFORMANCE WILL BE PAID BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE PROJECT.		
16.	CONTRACTOR SHALL NOT USE RESIDENTS WATER.		
17.	PROGRESS MEETINGS WILL BE HELD BETWEEN THE CONTRACTOR, THE CITY, AND THE ENGINEER ON A MONTHLY BASIS DURING CONSTRUCTION, AND MORE FREQUENTLY IF NEEDED.		

### ES:

SHALL BE REGISTERED IN THE STATE OF TEXAS ION OF THE RIGHT OF WAY AND BASELINE PRIOR

TE UTILITIES AS NECESSARY FOR CONSTRUCTION. EXISTING UTILITIES SHOWN ON DRAWINGS ARE VERIFIED BY THE CONTRACTOR PRIOR TO F EXISTING UTILITIES SHALL BE AT THE

JM CLEARANCE BETWEEN GAS LINES AND OTHER

TH OSHA REGULATIONS AND STATE OF TEXAS TRENCHING AND SHORING.

ADEQUATE DRAINAGE AT ALL TIMES DURING SHAPE AND REGRADE STREET DITCH TO ORIGINAL TURBED DURING CONSTRUCTION, AT NO

BE COMPLETELY CORDONED OFF WITH A PLASTIC CONSTRUCTION TAPE, OR ABLE TO THE CITY. ADEQUATE BARRICADES WITH LL BE INSTALLED TO PROTECT PEDESTRIAN AND

PROJECT AREA REMOVED OR DAMAGED DURING LACED WITH EQUAL OR BETTER MATERIALS, TO GINEER, AT NO ADDITIONAL COST TO THE CITY.

AND REPLACEMENT OF EXISTING DRIVEWAYS ENT OF DRIVEWAYS USING EITHER PLAIN PHALT, BASED ON THE TYPE OF MATERIAL THE F. REMOVE AND REPLACE EXISTING DRIVEWAYS LOWING SCHEDULE:

erial	Proposed Driveway Material
	Concrete
ng materials	Concrete
overlay	Concrete
	Asphalt
g materials	Asphalt
0	Asphalt

SIDEWALKS EXIST WITHIN THE PROJECT AREA OORDINATE AND GIVE THE OPPORTUNITY TO HE DIFFERENCE IN COST FOR THE NY DECORATIVE MATERIALS OR TREATMENTS ND/OR SIDEWALKS. PAYMENT FOR THE UPGRADE

BY THE HOMEOWNER DIRECTLY TO THE ONLY INVOLVEMENT BEING TO FACILITATE

ACEMENT SHALL MATCH THE WIDTH AND CILITY.

STREET RIGHTS-OF-WAY SHALL BE REMOVED AS ACCORDANCE WITH SECTION 02100 - RIGHT OF REMOVE THESE FACILITIES IS INCIDENTAL TO THE NOTED IN THE BID FORM. RECONSTRUCTION OF INCLUDED UNDER THIS CONTRACT.

ND OTHER TYPES OF DECORATIVE MAILBOXES EA LIMITS. CONTRACTOR SHALL TEMPORARILY MAILBOXES LOCATED WITHIN THE STREET S WAY. CONTRACTOR SHALL COORDINATE WITH EER FOR THE TEMPORARY AND PERMANENT ES. COST FOR TEMPORARY AND PERMANENT INCIDENTAL TO THE PROJECT, UNLESS FORM.

SHADOWS REQUIRE CONTINUOUS ACCESS TO INTRACTOR SHALL PROVIDE CONSTANT ACCESS E ENTIRETY OF PROJECT DURATION AS NOTED IN

- 13. RESIDENT'S LANDSCAPING IMPROVEMENTS EXIST WITHIN THE PROJECT AREA LIMITS. CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNERS AND CAREFULLY REMOVE EXISTING LANDSCAPE IMPROVEMENTS LOCATED WITHIN THE STREET RIGHT-OF-WAY AND DELIVER THE SALVAGED ITEMS AND MATERIALS TO THE CORRESPONDING PROPERTY OWNER. COST TO REMOVE AND SALVAGE EXISTING RESIDENT'S LANDSCAPING IMPROVEMENTS LOCATED IN THE RIGHT-OF-WAY IS INCIDENTAL TO THE PROJECT, UNLESS OTHERWISE NOTED IN THE BID FORM.
- 14. RESIDENT'S SPRINKLER SYSTEMS MAY BE LOCATED WITHIN THE STREET RIGHT-OF-WAY. CONTRACTOR SHALL CUT AND CAP EXISTING SPRINKLER SYSTEMS AT THE RIGHT-OF-WAY LINE PRIOR TO CONSTRUCTION. COST TO CUT AND CAP EXISTING SPRINKLER SYSTEMS IS INCIDENTAL TO THE PROJECT, UNLESS OTHERWISE NOTED IN THE BID FORM. RESTORATION OF THE SPRINKLER SYSTEM IS NOT INCLUDED UNDER THIS CONTRACT.
- 15. ALL WATER LINES SHALL HAVE 5' COVER ( 3' ABSOLUTE MINIMUM).

### TRAFFIC CONTROL

- CONTRACTOR SHALL NOTIFY THE CITY OF HILSHIRE VILLAGE, AMBULANCE, POLICE, FIRE AND OTHER EMERGENCY SERVICE AGENCIES AT LEAST 48 HOURS PRIOR TO CLOSURE OF ANY STREET, INTERSECTION OR LANE OF TRAFFIC. CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO ALLOW ACCESS TO EMERGENCY VEHICLES AT ALL TIMES.
- 2. CONTRACTOR SHALL MAINTAIN AT LEAST ONE LANE OPEN TO TRAFFIC AT ALL TIMES. FLAGGER AND/OR UNIFORMED OFF-DUTY POLICE OFFICER SHALL BE USED TO CONTROL TRAFFIC. UNIFORMED OFFICERS SHALL BE USED FOR TRAFFIC CONTROL ON ALL MAJOR THOROUGHFARES.
- 3. DURING CONSTRUCTION PROCESS, CONTRACTOR SHALL ALLOW RESIDENT TRAFFIC ACCESS TO ADJACENT PROPERTIES WITH PROPER GUIDANCE, DIRECTION AND TRAFFIC CONTROL, BUT ONLY AT SUCH TIMES THAT DAMAGE WILL NOT OCCUR TO THE CONSTRUCTION OR THE VEHICLE.
- 4. CONTRACTOR SHALL SET AND MAINTAIN BARRICADES, SIGNS AND OTHER TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
- 5. THE CONTRACTOR SHALL CONDUCT HIS 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 DONE DAILY.
- 5. ALL TEMPORARY AND PERMANENT TRAFFIC CONTROL DEVICES AND MARKINGS AND STRIPING REQUIRED FOR THIS PROJECT SHALL BE INCIDENTAL TO TRAFFIC CONTROL AND REGULATION (NO SEPARATE PAY)
- TEMPORARY ACCESS TO DRIVEWAYS, AS REQUIRED DURING ROADWAY CONSTRUCTION SHALL BE INCIDENTAL TO TRAFFIC CONTROL AND REGULATION. (NO SEPARATE PAY)

### CAUTION: OVERHEAD ELECTRICAL LINES

- CENTERPOINT ENERGY ELEC

Overhead lines may exist on the property. The location of overhead lines has not been shown of the lines are clearly visible, but you should locate them prior to beginning any construction. To 752, Health and Safety Code, forbids activities that occur in close proximity to high voltage lines.

- Any activity where person or things may come with six (6) feet of live overhead high vol
- Operating a crane, derrick, power shovel, drilling rig, pile driver, hoisting equipment, or within ten (10) feet of live overhead high voltage lines.

Parties responsible for the work, including Contractors, are legally responsible for the safety of workers under this law. This law carries both criminal and civil liability. To arrange for lines the removed, call CenterPoint Energy at (713) 207-2222.

ACTIVITIES ON / OR ACROSS CENTERPOINT ENERGY FEE OR EASEMENT PROPE

No approval to use, cross or occupy CenterPoint fee or easement property is given. If you need property, please contact our Survey & Right of Way Division at (713) 207-6348 or (713) 207-

### WARNING: UNDERGROUND ELECTRICAL UTILITIES

The Contractor shall contact the utility coordinating committee at (800) 545-6005 or (TEXAS 48 hours prior to construction to have main and service lines field located.

- All information concerning type and location of underground utilities is not guaranteed to inclusive. The contractors are responsible for making their own determinations as to type underground utilities as may be necessary to avoid damage thereto. The contractor shall v underground pipelines, conduits, and structures by contacting owners of underground utilities excavating in advance of construction.
- The contractor is responsible for determining the exact location of all utilities when and path of construction.
- The contractor is also responsible for contacting the utility coordinating committee at (71 Texas one-call at (800) 245-4545, forty-eight (48) hours prior to any construction.
- The location of any CenterPoint energy utilities are shown in approximate way only. The determine the exact location before commencing work. They agree to be fully responsible damages which might be occasioned by this failure to exactly locate and preserve these u
- All proposed facilities shall maintain 12" clear from all existing utilities.

- COMCAST FACILITIES -
- 1. Contact Mr. Bill Leopard at 281-802-1679 or Mr. Mohammad Woheidy at 713-895-1213 before proceeding with construction work in the vicinity of Comast / Time Warner cable facilities.
- 2. When excavating within eighteen inches (18") of the indicated location of an underground utility, all excavation must be accomplished using non-mechanized excavation proceedures.

CAUTION:

New Wave Communications has Aerial Cables in the Project Area. Contact Brandon Hastey TOM -Southeast Texas (979) 481-4073 bhastey @ newwavecom.com

### CAUTION: UNDERGROUND GAS FACILITIES

CENTERPOINT ENERGY GAS FACILITIES -

PRIVATE UTILITY LINES SHOWN

NEW WAVE COMMUNICATIONS -

The Contractor shall contact the Utility Coordinating Committee at 800-545-6005 or 811 a minimum of 48 hours prior to construction to have main and service lines field located.

- When CenterPoint Energy pipeline markings are not visible, call (713) 207-5463 or (713) 945-8037 (7:00 am to 4:30 pm) for status of line location request before excavation begins.
- When excavating within eighteen inches (18") of the indicated location of CenterPoint Energy Facilities, all excavation must be accomplished using non-mechanized excavation procedures.
- When CenterPoint Energy facilities are exposed, sufficient support must be provided to the facilities to prevent excessive stress on the piping.
- For emergencies regarding gas lines call (713) 659-2111 or (713) 207-4200.

The contractor is fully responsible for any damages caused by his failure to exactly locate and preserve these underground facilities.

		AT LEAST 48 HOURS BEF EASEMENTS CALL THE LON				
	AT&	T Texas/SWBT Utility Lines	Shown			
		roved for AT&T Texas/SWBT ature Valid for One Year.	Underground	Date Conduit Fa		ıly.
	~~8~					
CTRIC FACILITIES —	(App	erPoint Energy/Electric Facilit roved Only for Crossing Unde d at Time of Review Only.		Date		se Noted.)
on these drawings as				Date	:	
Texas law, Section ines, specifically:	Cent (Gas	erPoint Energy/Gas Facilities Service Lines are not Shown)				
oltage lines, and						
similar apparatus						
	MK.	DESCRIPTION		DATE	DWN.	СНК.
of construction to be turned off or ERTY ed to use CenterPoint 7-5769.		hgo	GOC KIM LE 102192 CENSED CONAL ENG CONAL ENG C	the		
to be accurate or all e and location of verify location of ilities or by		HDR Engineering 4828 Loop Central Drive (713) 622-9264 • Fax (7	, Suite 700 • Ho	ouston, Tex	as 77081	
where they fall in the		City of Hilsh	ire Vill	lage,	Texa	ıs
13) 223-4567 and	Pav	Hickory S ving, Drainage & V				ments
e contractor shall le for any and all		GENER	RAL NO	DTES	5	
underground utilities.	Date: Dwn	No.: 10418041 : July, 2025 By: G.S. Fuller By: N. Le	Scale: HORZ : VERT : ONE II IF ABOVE MAR MEASURE ONE THIS DWG. NO?	K DOES NOT INCH, THEN	SHE O OF	2

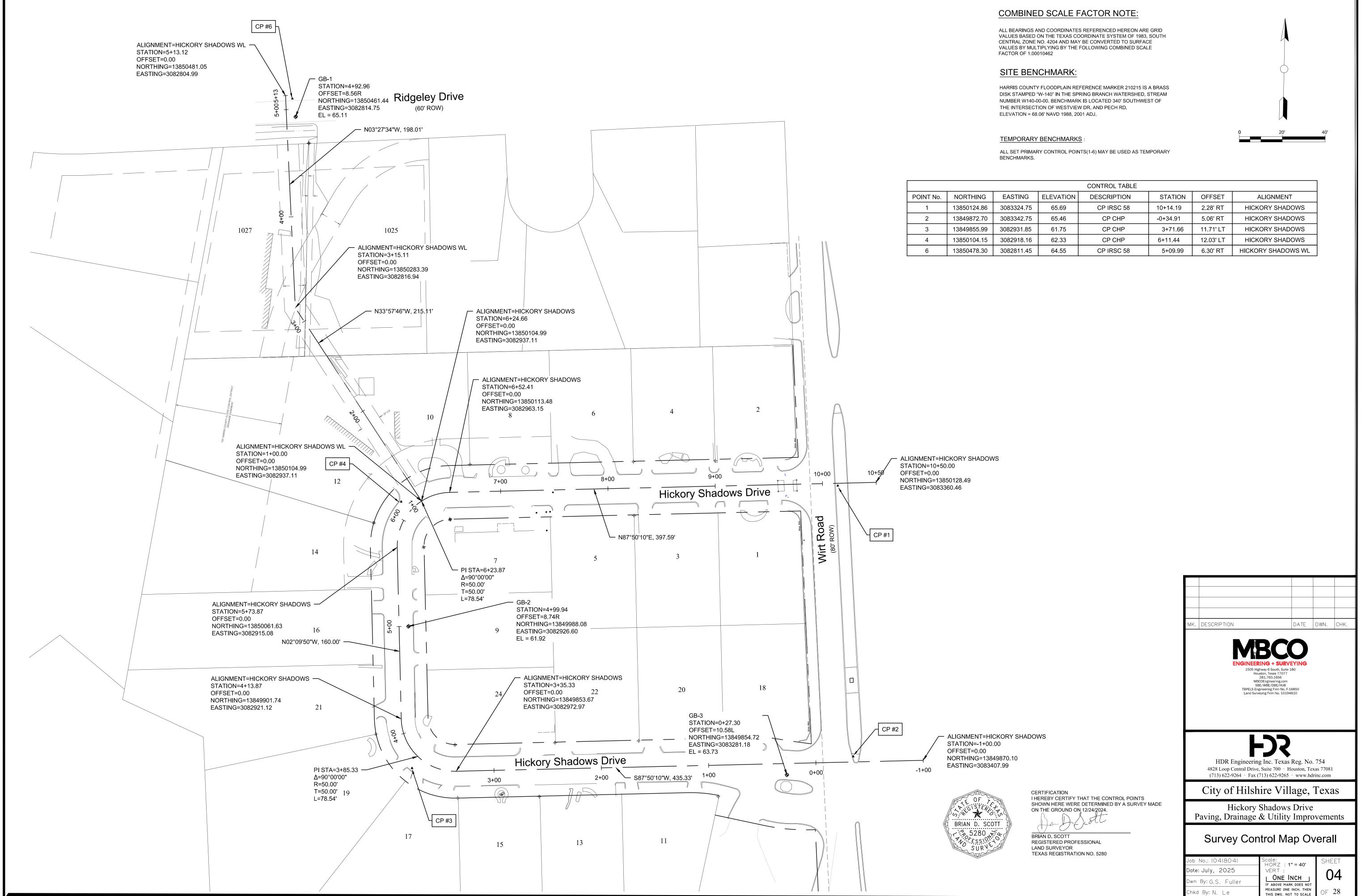
EGEND :			
<u>SYMBOL</u> EXISTING PLAN VIEW	DESCRIPTION	<u>SYMBOL</u> EXISTING PLAN VIEW	DE
Ô"IR	IRON PIPE OR IRON ROD	MH	HOUSTON
O	MONUMENTS CENTERLINE OF RIGHT-OF-WAY	9 MTD	CONDUIT
5+00	SURVEY BASELINE	<b>•</b>	POWER POLINES
	EXISTING RIGHT-OF-WAY LINE	$\blacklozenge \longrightarrow$	POWER PO
25'	PROPERTY LINE DIMENSION LINE	$\bigcirc$	TRAFFIC L
	CURB LINE	0	MARKER
	EDGE OF ASPHALT PAVEMENT SIDEWALK	$\langle \overline{\bullet \bullet} \rangle$	BUSINESS
6000	SIDEWALK	•	SIGN POS
	SHRUBS		FENCE LIN
	TREE	—XXX	FENCE LIN
BRICK BLDG.	BUILDING		
	SLAB	<u>SYMBOL</u> EXISTING PROFILE VIE	<u>w</u> <u>De</u>
			<u> </u>
° □	POST, WOOD OR METAL		NORTH OF
95	INDEX CONTOUR		SOUTH OF
	WATER LINE (20" & SMALLER)		NORTH OF
	WATER LINE (24" & LARGER)		SOUTH OF
	WATER VALVE (GATE OR BUTTERFLY)		CENTER L
	TAPPING SLEEVE AND VALVE	8" HP CENTERPOINT ENERGY	RELIANT E
FH		SWBT 6 MCD	GAS LINE
•	FIRE HYDRANT	EXIST 20" WATER LINE	SOUTHWES
	WATER METER	£	WATER LI
ዋ GM	GAS LINE GAS METER	EXIST 24" WATER LINE	WATER LI
	SANITARY SEWER LINE (24" & SMALLER)	EXIST <u>24" SAN S</u> WR	SANITARY
	•	EXIST 30" SAN SWR	SANITARY
	SANITARY SEWER LINE (30" & LARGER) SANITARY SEWER LINE,	EXIST 24" STM SWR	
<i>p</i>	MANHOLE & CLEANOUT		STORM SE
	STORM SEWER LINE (24" & SMALLER)	EXIST 30" STM SWR	STORM SE
MH	STORM SEWER LINE (30" & LARGER) STORM SEWER LINE		RELIANT E
	AND MANHOLE		
	STORM SEWER JUNCTION BOX		SOUTHWES
"B" INLET "B-B" INLET	CURB INLET		MANHOLE
	GRATE INLET		SANITARY
	CONCRETE DRAIN		& CLEAN
<u> </u>	CULVERT		
SWBTMH		2 8	STORM SE
6 MTD	SOUTHWESTERN BELL MANHOLE & OVERHEAD & BURIED CABLE		
T	TELEPHONE BOX		
*•	STREET LIGHT (CANTILEVERED ON WOODEN POLE		
ו	STREET LIGHT (CANTILEVERED ON ORNAMENTAL POLE		

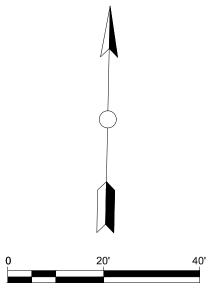
			ABBREVIATI
	SYMBOL		&
ESCRIPTION N LIGHTING & POWER CO & MANHOLE	PROPOSED PLAN VIEW	DESCRIPTION BORING LOCATION	Ø AB AC AVE
POLE W/OVERHEAD	PI#	POINT OF INTERSECTION (PI)	B−B
, POLE W/DOWN GUY	PC OR PT	POINT OF CURVE (PC) OR POINT OF TANGENCY (PT)	B-B BC BSSN
LIGHT POLE		WATER LINE (20" & SMALLER)	CI © CLR
		WATER LINE (24" & LARGER)	CMP
S SIGN		TAPPING SLEEVE & VALVE	COH CONC CONSTR
ST	<del>`</del>	FIRE HYDRANT	CPE CSG
INE (CHAIN LINK OR OTHER)			CTMS
INE (BARBED WIRE)		SANITARY SEWER LINE (24" & SMALLER)	DI DIA
		SANITARY SEWER LINE (30" & LARGER)	DR DWG
	——————	SANITARY SEWER MANHOLE	E EL OR ELEV
		STORM SEWER LINE (24" & SMALLER)	EOP ESP E/R
DESCRIPTION	6	STORM SEWER LINE (30" & LARGER)	ESMT EXIST
DR EAST RIGHT-OF-WAY		STORM SEWER MANHOLE	FC F—F
DR WEST RIGHT-OF-WAY	"B-B" INLET	CURB INLET	FH ?
OR EAST DITCH OR CURB		FACE OF CURB	FT
OR WEST DITCH OR CURB	●	PROPOSED SIGN	GV & B HL & P
LINE OF PAVEMENT	5' CONC SIDEWALK	CONCRETE WALK	HMAC HPS
ENERGY CONDUIT			HWY ID
Ξ	<u>SYMBOL</u> PROPOSED PROFILE VIEW	DESCRIPTION	IE IP
ESTERN BELL COMMUNICATION	<u>هــــــــــــــــــــــــــــــــــــ</u>	WATER LINE (20" & SMALLER)	IR JT
INE (20" & SMALLER)		WATER LINE (24" & LARGER)	JUNC
INE (24" & LARGER)		SANITARY SEWER LINE (24" & SMALLER)	LF LN LPST
		SANITARY SEWER LINE (30" & LARGER)	LT
Y SEWER LINE (24" & SMALLER)		STORM SEWER LINE (24" & SMALLER)	MAX METRO MH
Y SEWER LINE (30" & LARGER)		STORM SEWER LINE (30" & LARGER)	MIN MON
SEWER LINE (24" & SMALLER)		PVC SLEEVE	MRC N
SEWER LINE (30" & LARGER)		SANITARY SEWER MANHOLE	NFV NO NTS
ENERGY MANHOLE		STORM SEWER MANHOLE	OCEL OFS OLE OH
			PC
ESTERN BELL TELEPHONE E	°	STORM SEWER INLET	PCC PCCP PERM
Y SEWER MANHOLE NOUT	TOC @ +0.30% TOC @ -0.30%	TOP OF CURB OR CENTERLINE OF OPEN DITCH PAVING	PI PPCA PROP PT PT PVC
SEWER MANHOLE			PVI PVMT PVT
			R R
			R RCB RCP REINF REMOV ROW RD RD RRPM

## TIONS

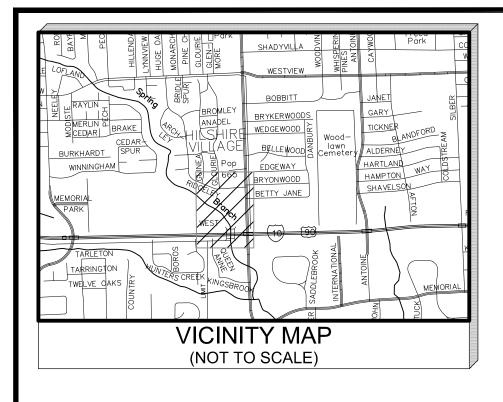
RJ RT AND AT RW ALL BELL ASBESTOS CEMENT S SAN AVENUE SPL SPRINK BASELINE BACK TO BACK ST STA BEHIND CURB BUSINESS SIGN STD STL CAST IRON STM CENTERLINE CLEAR SWR SWBT CORRUGATED METAL PIPE CITY OF HOUSTON CONCRETE CONSTRUCTION Т TBM CENTER POINT ENERGY TOC OR TC CASING COMPUTERIZED TRANSPORTATION TEMP TP MANAGEMENT SYSTEM TS & V DUCTILE IRON ΤY TYP DIAMETER DRIVE UE DRAWING UG EAST VC ELEVATION EDGE OF PAVEMENT EXTRA STRENGTH PIPE W W/ END OF CURB RETURN W EASEMENT WLE EXISTING WM WP FACE OF CURB WV FACE-TO-FACE FIRE HYDRANT FLOWLINE FEET GATE VALVE AND BOX HOUSTON LIGHTING AND POWER HOT MIXED ASPHALTIC CONCRETE HIGH-PRESSURE SODIUM HIGHWAY INSIDE DIAMETER INVERT ELEVATION IRON PIPE IRON ROD JOINT JUNCTION LINEAR FEET LANE LEAKING PETROLEUM STORAGE TANK LEFT MAXIMUM METROPOLITAN TRANSIT AUTHORITY MANHOLE MINIMUM MONUMENT MONOLITHIC REINFORCED CONCRETE NORTH NOT FIELD VERIFIED NUMBER NOT TO SCALE ON CURVE ELEVATION OFFSET OVERHEAD ELECTRICAL OVERHEAD POINT OF CURVATURE POINT OF COMPOUND CURVATURE PRESTRESSED CONCRETE CYLINDER PIPE PERMANENT POINT OF INTERSECTION POTENTIALLY PETROLEUM CONTAMINATED AREA PROPOSED POINT POINT OF TANGENCY POINT OF VERTICAL CURVATURE, POLYVINYL CHLORIDE PIPE POINT OF VERTICAL INTERSECTION PAVEMENT POINT OF VERTICAL TANGENCY RECORD DRAWING RADIUS OF CIRCULAR CURVE REINFORCED CONCRETE BOX REINFORCED CONCRETE PIPE REINFORCED REMOVABLE RIGHT OF WAY ROAD REFLECTIVE REMOVABLE PAVEMENT MARKERS

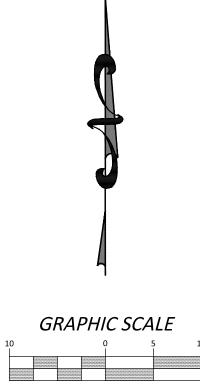
RESTRAINED JOINT RIGHT RETAINING WALL SOUTH SANITARY SPECIAL SPRINKLER STREET STATION ALONG BASELINE OR CENTERLINE STANDARD STEEL STORM SEWER SOUTHWESTERN BELL COMMUNICATION COMPANY TANGENT TEMPORARY BENCH MARK TOP OF CURB TEMPORARY TOP OF PAVEMENT TAPPING SLEEVE AND VALVE TYPE TYPICAL UTILITY EASEMENT UNDERGROUND VERTICAL CURVE WEST WITH WATER LINE WATER LINE EASEMENT WATER METER WOOD POLE WATER VALVE MK. DESCRIPTION DATE DWN. CHK. \* NGOC KIM LE 102192 OK CENSED ONALE hyper Kim he 7-1-2025 **H** HDR Engineering Inc. Texas Reg. No. 754 4828 Loop Central Drive, Suite 700 • Houston, Texas 77081 (713) 622-9264 • Fax (713) 622-9265 • www.hdrinc.com City of Hilshire Village, Texas Hickory Shadows Drive Paving, Drainage & Water Line Improvements LEGEND & ABBREVIATIONS b No.: 10418041 SHEET Scale: HORZ : Date: July, 2025 VERT 03 ONE INCH wn By:G.S. Fuller MEASURE ONE INCH, THEN OF 28 hkd By: N. Le THIS DWG. NOT TO SCALE



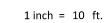


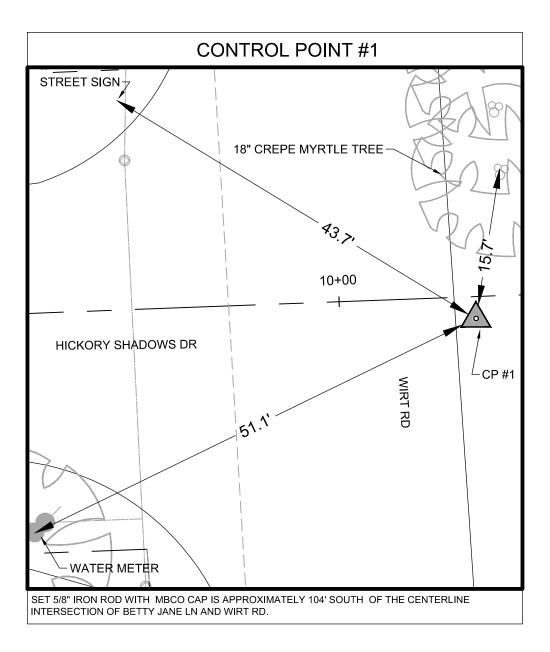
		CONTROL TABLE			
EASTING	ELEVATION	DESCRIPTION	STATION	OFFSET	ALIGNMENT
3083324.75	65.69	CP IRSC 58	10+14.19	2.28' RT	HICKORY SHADOWS
3083342.75	65.46	CP CHP	-0+34.91	5.06' RT	HICKORY SHADOWS
3082931.85	61.75	CP CHP	3+71.66	11.71' LT	HICKORY SHADOWS
3082918.16	62.33	CP CHP	6+11.44	12.03' LT	HICKORY SHADOWS
3082811.45	64.55	CP IRSC 58	5+09.99	6.30' RT	HICKORY SHADOWS WL

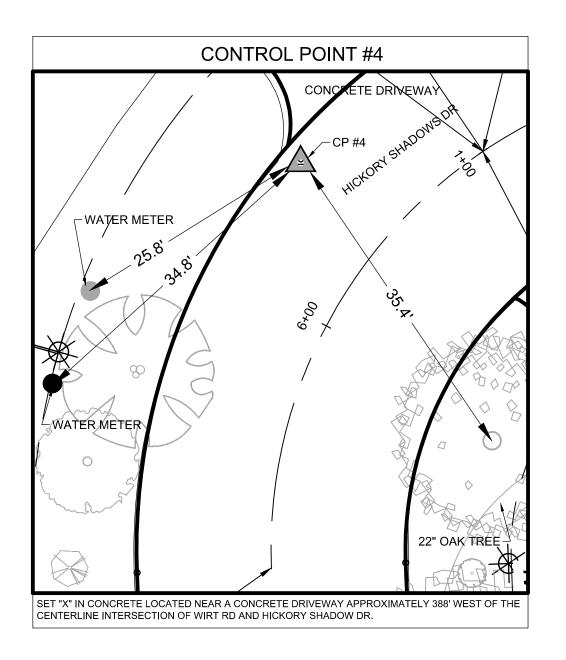


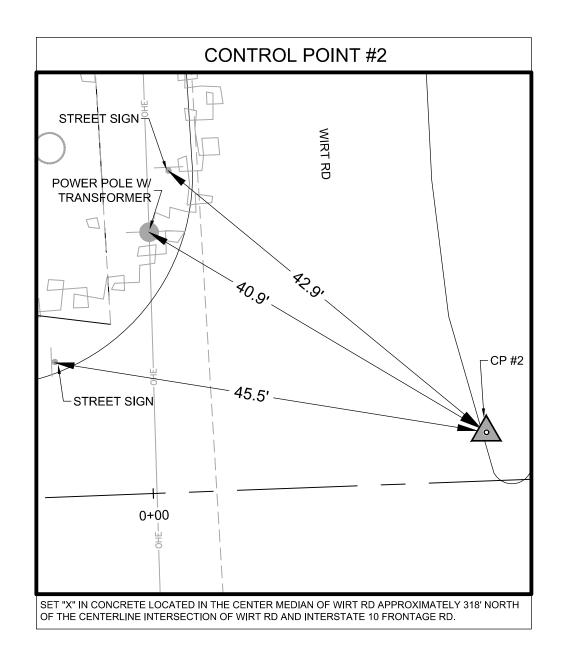


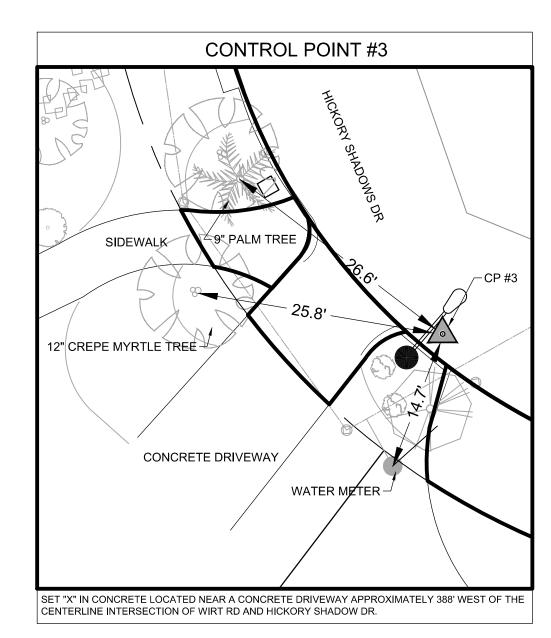
		<u>CONTRO</u>	L TABLE			
POINT NUMBER	DESCRIPTION	NORTHING	EASTING	ELEVATION	STATION	OFFSET
CP #1	5/8 IR WITH MBCO CAP	13850124.86	3083324.75	65.69	10+14.19	2.28
CP #2	SET "X" IN CONCRETE	13849872.70	3083342.75	65.46	-0+34.91	5.06
CP #3	SET "X" IN CONCRETE	13849855.99	3082931.85	61.75	3+71.66	11.71
CP #4	SET "X" IN CONCRETE	13850104.15	3082918.16	62.33	6+11.44	12.03
CP #6	5/8 IR WITH MBCO CAP	13850478.30	3082811.45	64.55	5+09.99	6.30

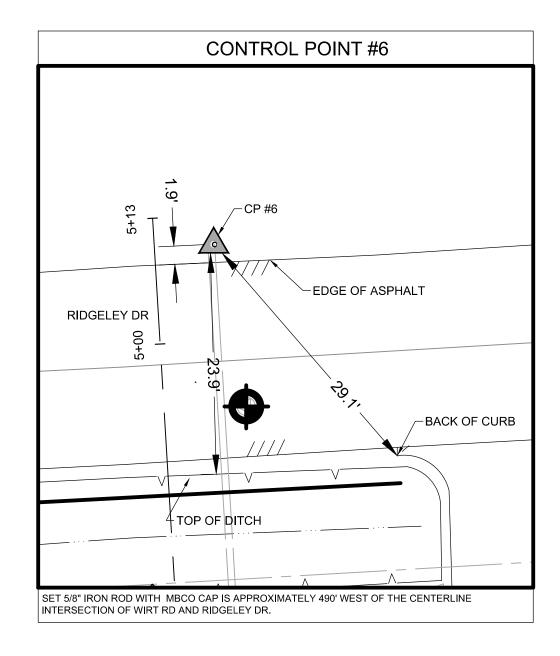














### COMBINED SCALE FACTOR NOTE:

ALL BEARINGS AND COORDINATES REFERENCED HEREON ARE GRID VALUES BASED ON THE TEXAS COORDINATE SYSTEM OF 1983, SOUTH CENTRAL ZONE NO. 4204 AND MAY BE CONVERTED TO SURFACE VALUES BY MULTIPLYING BY THE FOLLOWING COMBINED SCALE FACTOR OF 1.00010462

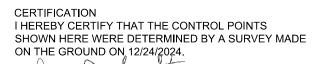
### SITE BENCHMARK:

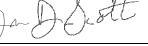
HARRIS COUNTY FLOODPLAIN REFERENCE MARKER 210215 IS A BRASS DISK STAMPED "W-140" IN THE SPRING BRANCH WATERSHED, STREAM NUMBER W140-00-00. BENCHMARK IS LOCATED 340' SOUTHWEST OF THE INTERSECTION OF WESTVIEW DR. AND PECH RD. ELEVATION = 68.06' NAVD 1988, 2001 ADJ.

TEMPORARY BENCHMARKS

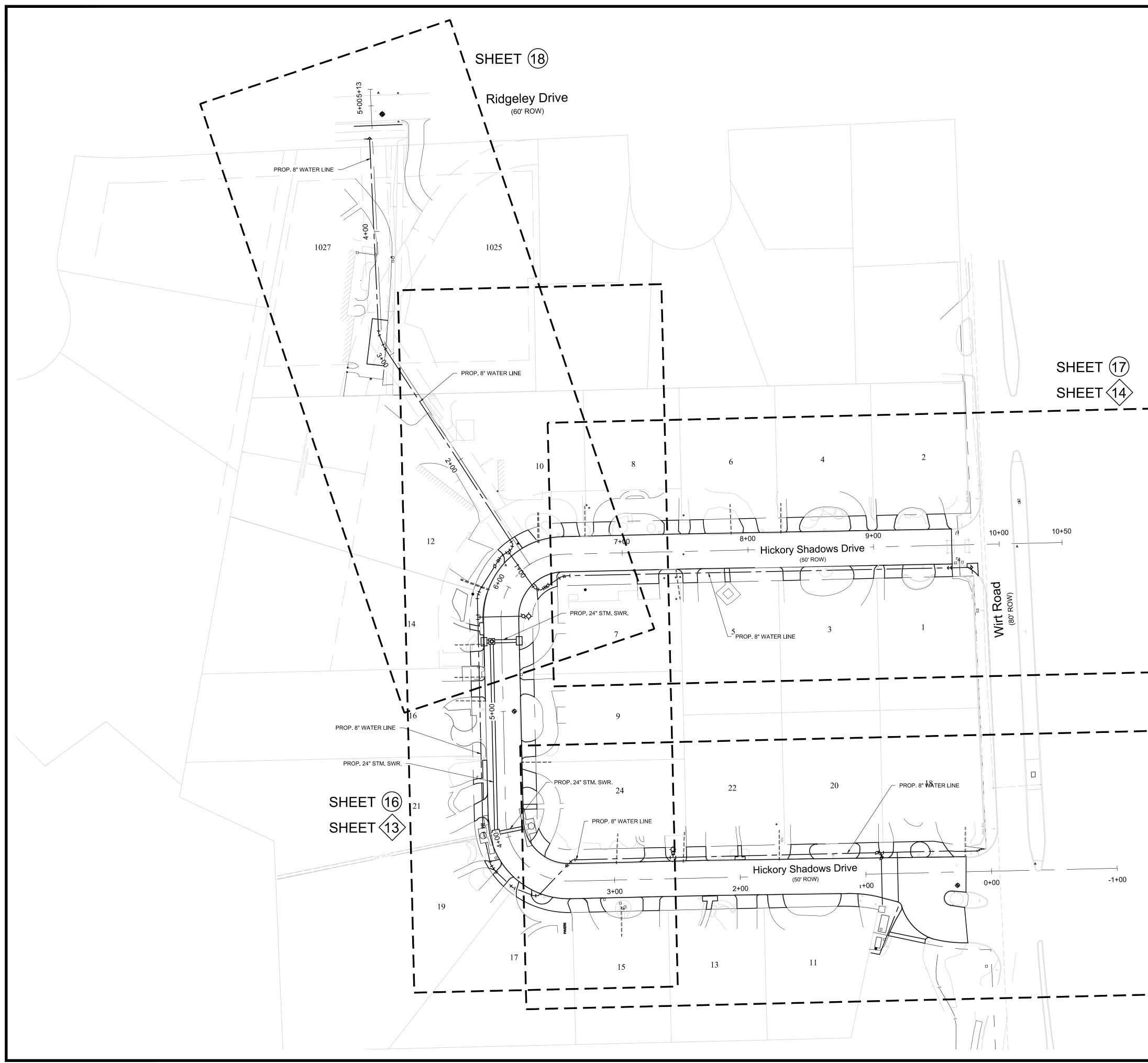
ALL SET PRIMARY CONTROL POINTS(1-6) MAY BE USED AS TEMPORARY BENCHMARKS.

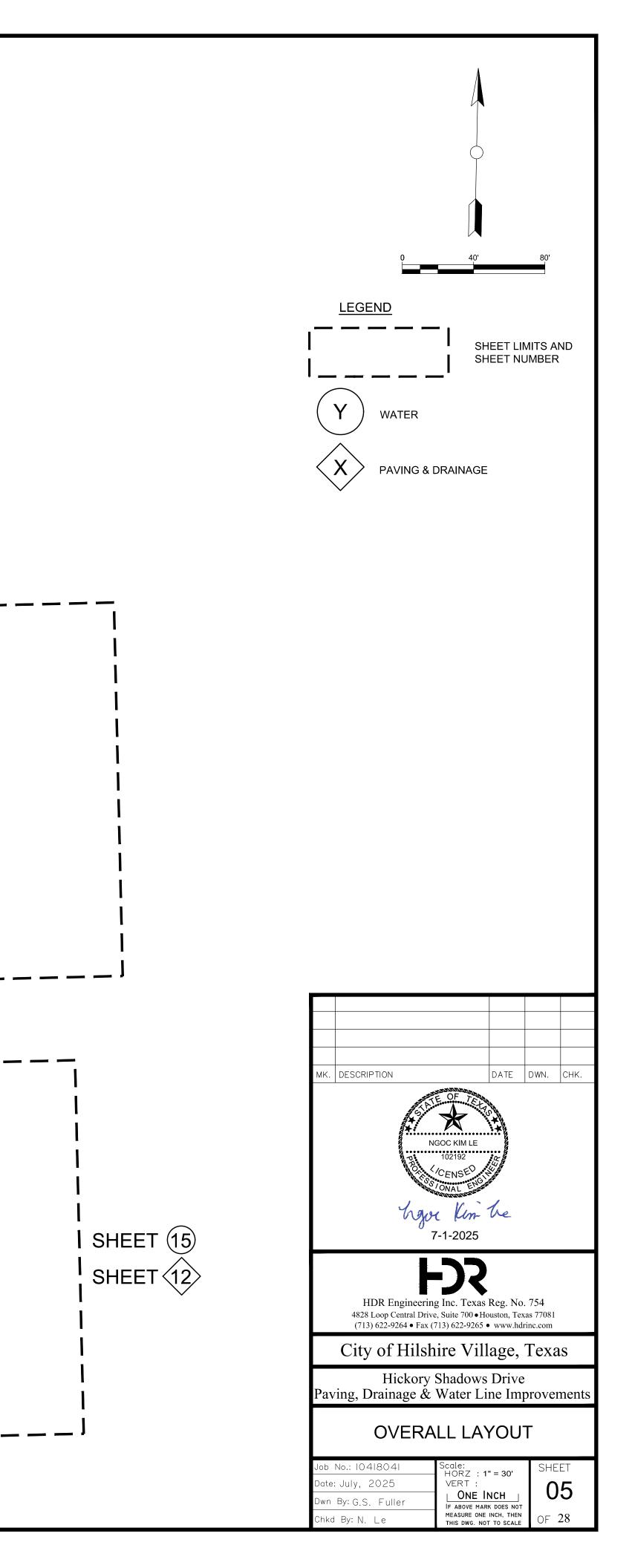
MK.	DESCRIPTION		DATE	DWN.	СНК.					
	ENGINEERING + SURVEYING 1505 Highway 6 South, Suite 180 Houston, Texas 77077 281.760.1656 MBCOEngineering.com SBE/WBE/DBE/HUB TBPELS Engineering Firm No. F16850 Land Surveying Firm No. 10194810									
	HDR Engineering 4828 Loop Central Drive, (713) 622-9264 · Fax (	Suite 700 · H	ouston, Te	xas 77081						
	City of Hilsh	ire Vill	age,	Texa	IS					
P	Hickory Paving, Drainage				ents					
	Hickor	v Shad	lows							
	Survey C	•		ils						
Job	No.: 10418041	Scale: HORZ :		SHE	ET					
Date	: July, 2025	VERT :			1 <b>Δ</b>					
Dwn	By: G.S. Fuller	IF ABOVE MAR	K DOES NOT		г/Л					
Chkc	IBy:N.Le	MEASURE ONE THIS DWG. NO		OF	28					



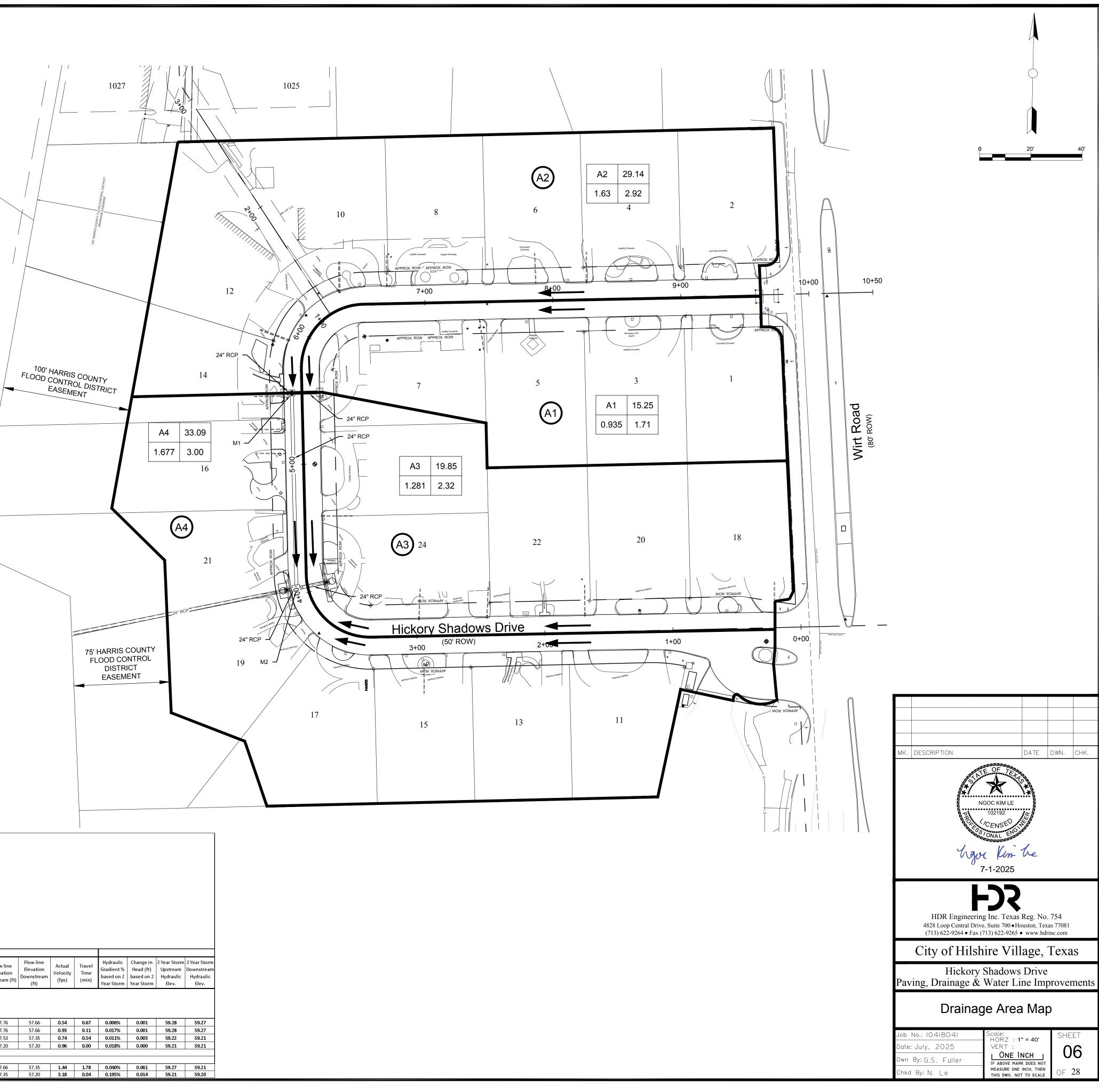


BRIĂN D. SCOTT REGISTERED PROFESSIONAL LAND SURVEYOR TEXAS REGISTRATION NO. 5280





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						OVER/	ALL DRA	INAG	E BOUNDA	RY 💻			I						
						FLOW	DIRECT	ION											
						DRAIN	AGE AR	EA DI	ESIGNATIO	N	(A1	)							
1. DESIGN CRITERIA USED FOR STORM ANALYSIS IS THE LATEST HARRIS TX-DOT INTERNITY-DURATION FOR A 2-YEAR STORM EVENT WITH AN AVERAGE C VALUE OF 0.50.						CULVE	ERT LAB	EL											
1. DESIGN CRITERIA USED FOR STORM ANALYSIS IS THE LATEST HARRIS TX-DOT INTERNITY-DURATION FOR A 2-YEAR STORM EVENT WITH AN AVERAGE C VALUE OF 0.50.													J						
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THE LATEST HARRIS TX-DOT           THE LATEST HARRIS TX-DOT           State Strong House						NOT	ES:												
Bits Scortholicity & Hydrails Caludations - 2: Next Stom Desgr.           Editary Challer and Drom Failing, Brillong & Water Line Ingenerated as a star of the store failing of the store faili						1.	THE LA	TEST	HARRIS T	X-DOT FOR A 2-Y	EAR S	TORM							
Hickory Shadows Drive Paving, Drianage, & Water Line Improvements Licky of Hilshire Villag.          Lobi Section: <ul> <li>Lobi Section:</li> <li>Tresday, Jone 3, 2025</li> <li>By:             <li>Tresday, Jone 3, 2025</li> <li>By:             <li>Tresday, Jone 3, 2025</li> <li>By:</li> <li>Tresday, Jone 3, 2025</li> <li>Tresday, J</li></li></li></ul>							EVENT	WITH	I AN AVERA	AGE C VAL	UE OF	0.50.							
Hickory Shadows Drive Paving, Drainage, & Water Line Improvements Lob Section Data Description of Drainage As y Jane 3, 2025 By: TC/NKL Criteria: HGL Starting Elevation for Drainage Basin = N9 00 utfall Pipe) Design Velocity = A N100 yr. Flood Elevation Agency Cource Used Haris To DT Vear Storm Calculated = 2 2 pagenere proposed = 2 pagenere thickes (inches) = 7 Haris To DT Vear Storm Calculated = 2 2 pagenere thickes (inches) = 7 Haris To DT Vear Storm Calculated = 2 2 pagenere thickes (inches) = 7 Haris To DT Vear Storm Calculated = 2 2 pagenere thickes (inches) = 7 Haris To DT Vear Storm Calculated = 2 2 pagenere thickes (inches) = 7 Haris To DT Vear Storm Calculated = 2 2 pagenere thickes (inches) = 7 Haris To DT Vear Storm Calculated = 2 2 pagenere thickes (inches) = 7 Haris To DT Vear Storm Calculated = 2 2 pagenere thickes (inches) = 7 Haris To DT Vear Storm Calculated = 2 2 Haris To DS Haris To DT Haris To																		F	
Micro Strike Pointing, Paranage, & Water Line Improvements         Lobise: City of Hilbshire Village         Volge Section: To Esday, June 3, 2025         By: Tresday, June 3, 2025         Micro Tresday, June 4, Tr																	~		
Hickory Shadows Drive Paving, Drainage, & Water Line Improvements City of Hilbshire Village          Job Section Description Section for Drainage Asian =																	``		
Hickory Shadows Drive Paving, Drainage, & Water Line Improvements         State ImprovementState Improvements         S																	~		
Micro Strike Pointing, Paranage, & Water Line Improvements         Lobise: City of Hilbshire Village         Volge Section: To Esday, June 3, 2025         By: Tresday, June 3, 2025         Micro Tresday, June 4, Tr																			
Micro Strike Pointing, Paranage, & Water Line Improvements         Lobise: City of Hilbshire Village         Volge Section: To Esday, June 3, 2025         By: Tresday, June 3, 2025         Micro Tresday, June 4, Tr																			
Hickory Shadows Drive Payling, Drainage, & Water Line Improvements City of Hilbstry Village          Job Section Detrices       Toesday, June 3, 2025         By:       Toesday, June 3, 2025         By:       TOE Section TOT Nick         Criteria:       Status 1, 2025         Bois Section for Dires       Status 1, 2025         Design Velocity =       3         Agency Curve Used       Harris-To-OT         Versign Velocity =       3         Agency Curve Used       Harris-To-OT         Year Storm Calculate       2         Total Area       7 in.         Subgade Thick (nore)       7 in.         Subgade Thick (nore)       7 in.         Year Storm Calculate       2         Inte (from)       Nainage       Total Area       Sum of Coefficient (Triton Status 2)       Storm       Storm of Flow (ch)       Sum of Flow (ch)       Nam of Flow (ch)       Nain of Flow																			
Hickory Shadows Drive Paving, Drainage, & Water Line Improvements City of Hilbshire Village          Job Section Description Section for Drainage Asian =																			
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Date:       TURSday, June 3, 2025         By:       TC/NKL           Criteria:       HGL Starting El-vactor for Driange Basin = 59,20     (Digo of Using Pleice)         Design Velocity = 3       3       59,20         Design Velocity = 10,00 vr. Flood Elevation       3       Velocity = 10,00 vr. Flood Elevation         Agency Curve Used       Harris-TXO U       2       Velocity = 10,00 vr. Flood Elevation         Minimum piese ize proposed = 20,00 vr. Velocity = 10,00 vr. Flood Elevation       7,00 vr. Flood Elevation       7         Subgrade Tickness (inches) = 0,00 vr. Flood Elevation       7,00 vr. Flood Elevation       7,00 vr. Flood Elevation       7,00 vr. Flood Elevation         Manhole / Inlet (from Manhole / Inlet (To Sub Area Inlet (Acrea)       Runoff Cofficient Nor flood Nor flood Cofficient Nor flood Cofficient Nor flood Cofficient																			
HGL Starting Elevation for Drainage Basin =       59.20       (Top of Outfall Pipe)         Agency Curve Used       Harris - TXOOT         Year Storm Calculated =       2       2         Mainum pipe size proposed =       24         Pavement Thickness (inches) =       7         Jin.       5         Vegrave Used       Inters in diameter.         Vagrave Used       Inters in diameter.         Vagrave Used       Inters (from diameter.)         Vagrave Used       Vagrave Used         Vagrave Used       Vagrave Used         Vagrave Used       Vagrave Used         Vagrave Used       Vagrave Used	Hickory Shado City of Hilshin	ows Drive Pavin																	
Year Storm Calculated =       2       2         Minimum pipe size proposed =       24         Pavement Thickness (inches) =       7       in.         Stubgrade Thickness (inches) =       8         Wanhole /       Sub Area       Total Area       Runoff       Sum of       Intensity       Bypass / Other       Prop. Storm of Flow (cfs)       Prop. Top Wall       Prop. Design       Pipe       Pipe <td><b>Hickory Shado</b> City of Hilshin Job Section Date:</td> <td>ows Drive Pavin e Village Tuesday, June</td> <td>g, Drainage</td> <td></td>	<b>Hickory Shado</b> City of Hilshin Job Section Date:	ows Drive Pavin e Village Tuesday, June	g, Drainage																
Manhole / Manhole / Inlet (ro)       Drainage Manhole / Inlet (ro)       Total Area Naces       Runoff (Acres)       Sum of C*A       Time of C*A       Intensity based on C*A       Bypas / Other Storm       Bypas / Other Flow Added (cfs)       Propsed Arch, or Box       Propsed Propsed NB       Propsed Nall       Propsed Storm       Propsed Propsed NB       Propsed NB       Propsed Propsed NB       Propsed NB       Propsed Storm       Propsed Propsed NB       Propsed NB       Pr	Hickory Shadc City of Hilshir Job Section Date: By: <u>Criteria:</u> HGL Starting E Design Veloci	ows Drive Pavin e Village Tuesday, June TC/NKL levation for Dra ty =	g, Drainage - 3, 2025 ainage Basi 3	n =	Line Improv	vements													
A1       M1       0.935       0.935       0.50       0.468       24.88       3.66       0.00       1.71       C       24''       3.00       0.45%       15.25       22       0.10       0.00       25         A2       M1       1.630       1.630       0.50       0.815       25.90       3.58       0.00       2.92       C       24''       3.00       1.66%       29.14       6       0.10       0.00       25''         A3       M2       1.281       0.50       0.641       25.45       3.62       0.00       2.32       C       24''       3.00       0.77%       19.85       24       0.10       0.00       25''	Hickory Shadc City of Hilshir Job Section Date: By: HGL Starting E Design Veloci Agency Curve Year Storm Ca Minimum pip Pavement Thi	by S Drive Pavin e Village Tuesday, June TC/NKL ilevation for Dra ty = Used ilculated = e size proposed ickness (inches	g, Drainage 3, 2025 ainage Basi 3 Harris-TxD 2 4 =	n = OT 2 3 7	Line Improv 59.2 N. inches in c <i>in.</i>	0 (Top of Ou A 100 yr. Floo													
A1       M1       0.935       0.935       0.50       0.468       24.88       3.66       0.00       1.71       C       24"       3.00       0.45%       15.25       22       0.10       0.00       4.55         A2       M1       1.630       1.630       0.50       0.815       25.90       3.58       0.00       2.92       C       24"       3.00       1.66%       29.14       6       0.10       0.00       4.55         A3       M2       1.281       0.50       0.641       25.45       3.62       0.00       2.32       C       24"       3.00       0.77%       19.85       24       0.10       0.00       25	Hickory Shadc City of Hilshir Job Section Date: By: Criteria: HGL Starting E Design Veloci Agency Curve Year Storm Ca Minimum pip Pavement Thi Subgrade Thic Upstream Manhole /	by S Drive Pavin e Village Tuesday, June TC/NKL Elevation for Dr. ty = Used Iculated = e size proposed ickness (inches) Downstream Manhole /	g, Drainage ainage Basi 3 Harris-TxD 2 1 = = Drainage Sub Area	n = OT 24 Total Area	59.2 N. inches in c <i>in.</i> <i>in.</i> Runoff Coefficien	0 (Top of Ou A 100 yr. Floo diameter.	od Elevation	based o	Y Bypass / Other	Sum of Flow (rfe	Arch,	Proposed	Wall	Prop.	Design	Pipe Length	Pipe Fall	Manhole Drop /	Flow
A3 M2 1.281 1.281 0.50 0.641 25.45 3.62 0.00 2.32 C 24" 3.00 0.77% 19.85 24 0.18 0.00 5	Hickory Shadc City of Hilshir Job Section Date: By: Criteria: HGL Starting E Design Veloci Agency Curve Year Storm Ca Minimum pip Pavement Thi Subgrade Thic Upstream Manhole /	by S Drive Pavin e Village Tuesday, June TC/NKL Elevation for Dr. ty = Used Iculated = e size proposed ickness (inches) Downstream Manhole /	g, Drainage ainage Basi 3 Harris-TxD 2 1 = = Drainage Sub Area	n = OT 2 Total Area (Acres)	Line Improv 59.2 N. inches in c <i>in.</i> <i>in.</i> Runoff Coefficien 'C'	0 (Top of Ou A 100 yr. Floo diameter.	Time of Concentration 'TC'	based o 2 Year Storm	n Bypass / Other Flow Added (cfs)	Sum of Flow (cfs)	Arch, Circular,	Proposed	Wall Thickness	Prop. Slope %	Design Capacity	Length	Pipe Fall (ft)	Manhole Drop / Pipe Drop (ft)	Flow Eleva
	Hickory Shadc City of Hilshir Job Section Date: By: <u>Criteria:</u> HGL Starting E Design Veloci Agency Curve Year Storm Ca Minimum pip Pavement Thi Subgrade Thic Upstream Manhole / Inlet (From)	Tuesday, June Tuesday, June TC/NKL Elevation for Dr. ty = Used Iculated = e size proposed ickness (inches) Downstream Manhole / Inlet (To)	g, Drainage ainage Basi 3 Harris-TxD 2 1 = 2 Drainage Sub Area (Acres) 0.935	n = OT 2 Total Area (Acres) St	59.2 N. inches in c <i>in.</i> <i>in.</i> Runoff Coefficien 'C' orm sewer 0.50	to (Top of Ou A 100 yr. Floo diameter. tt Sum of C*A ralong Hickor Inlet Later 0.468	od Elevation Time of Concentration 'TC' γ Shadows Driv als 24.88	based o 2 Year Storm e 3.66	n Bypass / Other Flow Added (cfs)	1.71	Arch, Circular, or Box	Proposed Pipe 24''	Wall Thickness (in) <b>3.00</b>	Slope % 0.45%	Design Capacity (cfs) 15.25	Length (Feet) 22	0.10	0.00	Flow Eleva Upstrea

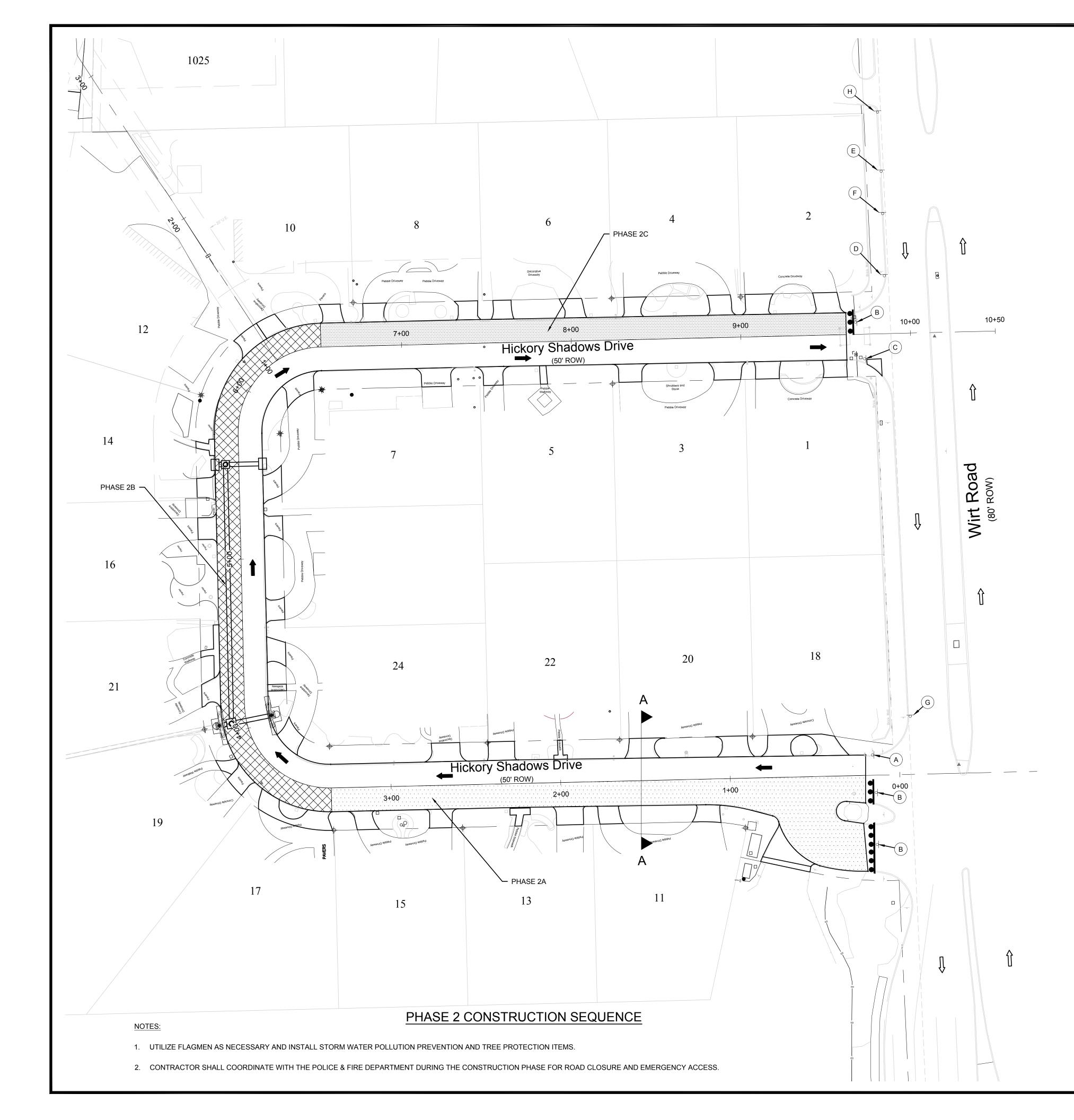


Flow line Elevation Downstream (ft)	Actual Velocity (fps)	Travel Time (min)	Hydraulic Gradient % based on 2 Year Storm	Change in Head (ft) based on 2 Year Storm	2 Year Storm Upstream Hydraulic Elev.	2 Year Storm Downstream Hydraulic Elev.
57.66	0.54	0.67	0.006%	0.001	59.28	59.27
57.66	0.93	0.11	0.017%	0.001	59.28	59.27
57.35	0.74	0.54	0.011%	0.003	59.22	59.21
57.20	0.96	0.00	0.018%	0.000	59.21	59.21
57.35	1.44	1.78	0.040%	0.061	59.27	59.21
57.20	3.18	0.04	0.195%	0.014	59.21	59.20

GENERAL TRAFFIC CONTROL NOTES:

- 1. IF THE CONTRACTOR CHOOSES TO USE A DIFFERENT METHOD OF "TRAFFIC CONTROL PLAN" DURING CONSTRUCTION THAN WHAT IS OUTLINED IN CONTRACT DRAWINGS HE/SHE SHALL BE RESPONSIBLE TO PREPARE AND SUBMIT AN ALTERNATIVE SET OF PLANS TO PLAN REVIEW FOR APPROVAL THREE WEEKS PRIOR TO BEGINNING CONSTRUCTION. THESE PLANS SHALL BE DRAWN TO SCALE AND SEALED BY A P.E. IN THE STATE OF TEXAS.
- 2. THE CONTRACTOR SHALL PROVIDE AND INSTALL TRAFFIC CONTROL DEVICES IN CONFORMANCE WITH PART VI OF TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TXMUTCD - LATEST EDITION WITH REVISIONS) DURING CONSTRUCTION. FOR A 30 MPH ROADWAY, SIGNS SHALL BE PLACED MIN. 120' APART PER MINIMUM SIGN SPACING DISTANCE 'X' FROM "TRAFFIC CONTROL PLAN ONE-LANE TWO-WAY TRAFFIC CONTROL" DETAIL.
- 3. CONTRACTOR SHALL NOTIFY CITY 72 HOURS PRIOR TO INSTALLING TRAFFIC CONTROL DEVICES.
- 4. THE TCP PLAN SHALL BE COORDINATED WITH ALL LOCAL AGENCIES AND SERVICES THAT MAY BE IMPACTED BY THE CONSTRUCTION, INCLUDING BUT NOT LIMITED TO EMERGENCY RESPONSE AGENCIES SUCH AS CITY POLICE DEPARTMENT, FIRE DEPARTMENT, TRASH PICKUP, USPS, SCHOOLS, AND TXDOT.
- 5. NO WORK WILL BE ALLOWED ON SATURDAYS OR HOLIDAYS, WITHOUT PRIOR AUTHORIZATION BY CITY STAFF.
- 6. THE CONTRACTOR SHALL NOT STORE ANY CONSTRUCTION MATERIALS IN SUCH A MANNER AS TO OBSTRUCT VEHICLE DRIVER SIGHT DISTANCES.
- 7. ALL SIGNS, WARNING DEVICES, AND BARRICADES ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR, INCLUDING ACTS OF VANDALISM OR ACCIDENT. THE CONTRACTOR SHALL INSURE THAT ALL BARRICADES, SIGNS, CHANNELIZING DEVICES, WARNING LIGHTS, TRAFFIC HANDLING DEVICES, AND TEMPORARY AND EXISTING PAVEMENT MARKINGS ARE MAINTAINED IN A CLEAN FUNCTIONAL CONDITION AT ALL TIMES.
- 8. THE CONTRACTOR SHALL REMOVE ALL EXISTING SIGNS WHICH ARE IN CONFLICT WITH THE CONSTRUCTION SIGNS.
- 9. NOTHING IN THESE NOTES OR PLANS SHALL RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT; INCLUDING SAFETY OF ALL MODES OF TRANSPORTATION, PERSONS, AND PROPERTY, AND THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO WORKING HOURS. PROJECT SITE AND PROPOSED IMPROVEMENTS TO BE MAINTAINED AND CONTRACTOR TO CLEAN UP AT THE END OF EACH DAY AS APPROVED BY THE ENGINEER AND CITY.
- 10. THE CITY HAS THE RIGHT TO DEMAND THE INSTALLATION OF ADDITIONAL TRAFFIC CONTROL DEVICES OR MODIFICATIONS OF THESE PLANS AND NOTES, AS DEEMED NECESSARY TO PROMOTE THE SAFE AND ORDERLY FLOW OF TRAFFIC, INCLUDING PEDESTRIANS AND BICYCLES, THROUGH THE CONSTRUCTION WORK ZONE. THE CONTRACTOR SHALL COMPLY WITH THESE ADDITIONAL REQUESTS OR MODIFICATIONS WITH DUE DILIGENCE.
- 11. WHEN ENTERING OR LEAVING ROADWAYS CARRYING PUBLIC TRAFFIC, THE CONTRACTOR'S EQUIPMENT WHETHER EMPTY OR LOADED SHALL IN ALL CASES YIELD TO PUBLIC TRAFFIC WITH ASSISTANCE OF CONTRACTOR PROVIDED CERTIFIED FLAGGER/OFF-DUTY OFFICER.
- 12. ACCESS TO DRIVEWAYS ADJACENT TO THE CONSTRUCTION WORK ZONE SHALL BE MAINTAINED AT ALL TIMES. ADDITIONAL CONES AND DELINEATORS MAY BE REQUIRED TO DELINEATE THE DRIVEWAY ACCESS ROUTE THROUGH THE CONSTRUCTION ZONE. A MINIMUM OF A 10' TRAVEL LANE SHALL BE MAINTAINED AT ALL TIMES.
- 13. CONTRACTOR SHALL PROVIDE A TEMPORARY DRIVEWAY FOR RESIDENTS UNTIL THE DRIVEWAY HAS BEEN REPLACED. THIS SHALL BE INCIDENTAL TO THE TRAFFIC CONTROL PAY ITEM.
- 14. CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE RESIDENTS A MINIMUM OF 7 DAYS PRIOR TO WORKING IN FRONT OF THEIR PROPERTY.
- 15. SPILLAGE RESULTING FROM HAULING OPERATIONS ALONG OR ACROSS ANY PUBLIC TRAVELED WAY SHALL BE REMOVED IMMEDIATELY BY THE CONTRACTOR.
- 16. THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE THROUGHOUT THE PROJECT AT ALL TIMES.
- 17. THE CONTRACTOR SHALL COORDINATE HIS SCHEDULE OF WORK WITH UTILITY OWNERS, BOTH PUBLIC AND PRIVATE. UTILITY OWNERS MAY HAVE THERE OWN FORCES OR CONTRACTORS RELOCATING FACILITIES REQUIRED BY THE NEW CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH THESE OTHER FORCES OR CONTRACTORS.
- 18. FLASHING WARNING LIGHTS AND/OR FLAGS MAY BE USED TO CALL ATTENTION TO THE ADVANCE WARNING SIGNS.
- 19. ALL WORK SHALL BE PURSUED IN ACCORDANCE WITH CITY ORDINANCE NO. 40-28. NO WORK SHALL BE DONE ON HICKORY SHADOWS DRIVE IN THE ROADWAY BETWEEN HOURS OF 7:00 AM TO 9:00 AM AND 4:00 PM TO 6:00 PM, MONDAY-FRIDAY. ALL OTHER ROADWAYS SHALL HAVE WORKING HOURS OF 7:00 AM TO 6:00 PM.
- 20. CONTRACTOR SHALL COVER OPEN EXCAVATIONS DURING NON-WORKING HOURS. ANCHORED STEEL PLATES SHALL BE USED TO COVER EXCAVATION WITHIN THE PAVEMENT, EXCAVATIONS OUTSIDE OF PAVEMENT SHALL BE COVERED AND ENCLOSED IN CONSTRUCTION FENCING AND OPEN THE LANES FOR TRAFFIC.



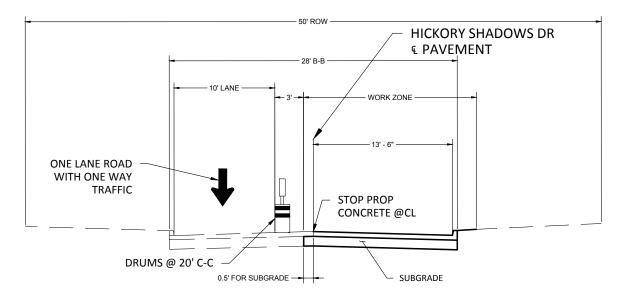


### PHASE 1 NOTES:

- CONTROL PLAN NARRATIVE SEQUENCE ITEMS.)
- SEPARATE PAYMENT).

### PHASE 2 NOTES:

- SECTION AND CONSTRUCTION SEQUENCE LAYOUT.
- SHADOWS DRIVE.
- 3. CONTRACTOR SHALL SEQUENCE CONSTRUCTION IN SUCH A MANNER THAT
- REMOVAL OR UTILITY SERVICE DISRUPTION.



GENERAL TYPICAL SECTION FOR PAVING HALF OF THE ROAD **SECTION A-A** 

1. PLACE EROSION CONTROL ITEMS WHERE APPLICABLE (TYPICAL OF ALL TRAFFIC

2. INSTALL UTILITIES ON A ROLLING OPERATION PER "TRAFFIC CONTROL PLAN ONE-LANE TWO-WAY TRAFFIC CONTROL". WATER LINE TO BE INSTALLED FIRST. CONTRACTOR SHALL COORDINATE WITH CITY PRIOR TO INSTALLING UTILITIES. WHERE INSTALLATION OF UTILITIES ARE UNDER PAVEMENT, CONTRACTOR SHALL BACKFILL AND PLACE TEMPORARY PAVEMENT OR STEEL PLATES TO MAINTAIN ACCESS TO BOTH LANES OF TRAFFIC AT THE END OF EACH WORK DAY (NO

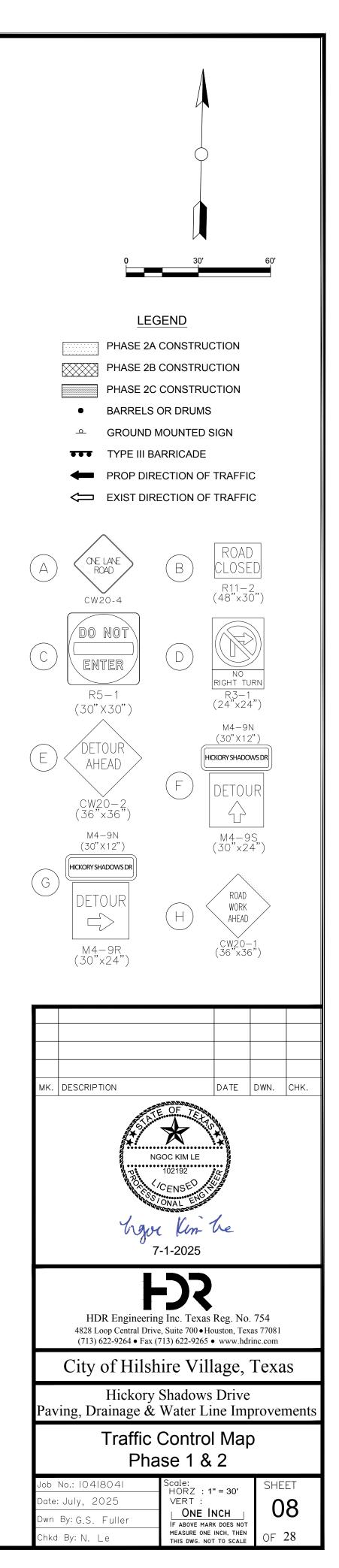
3. INSTALLATION OF STORM SEWER ON THE WESTSIDE OF HICKORY SHADOWS DRIVE ON A ROLLING OPERATION PER SHEET 10 AND PLACE TEMPORARY ASPHALT PER TRAFFIC CONTROL ONE-LANE TWO-WAY TRAFFIC CONTROL, WITH FLAGGERS.

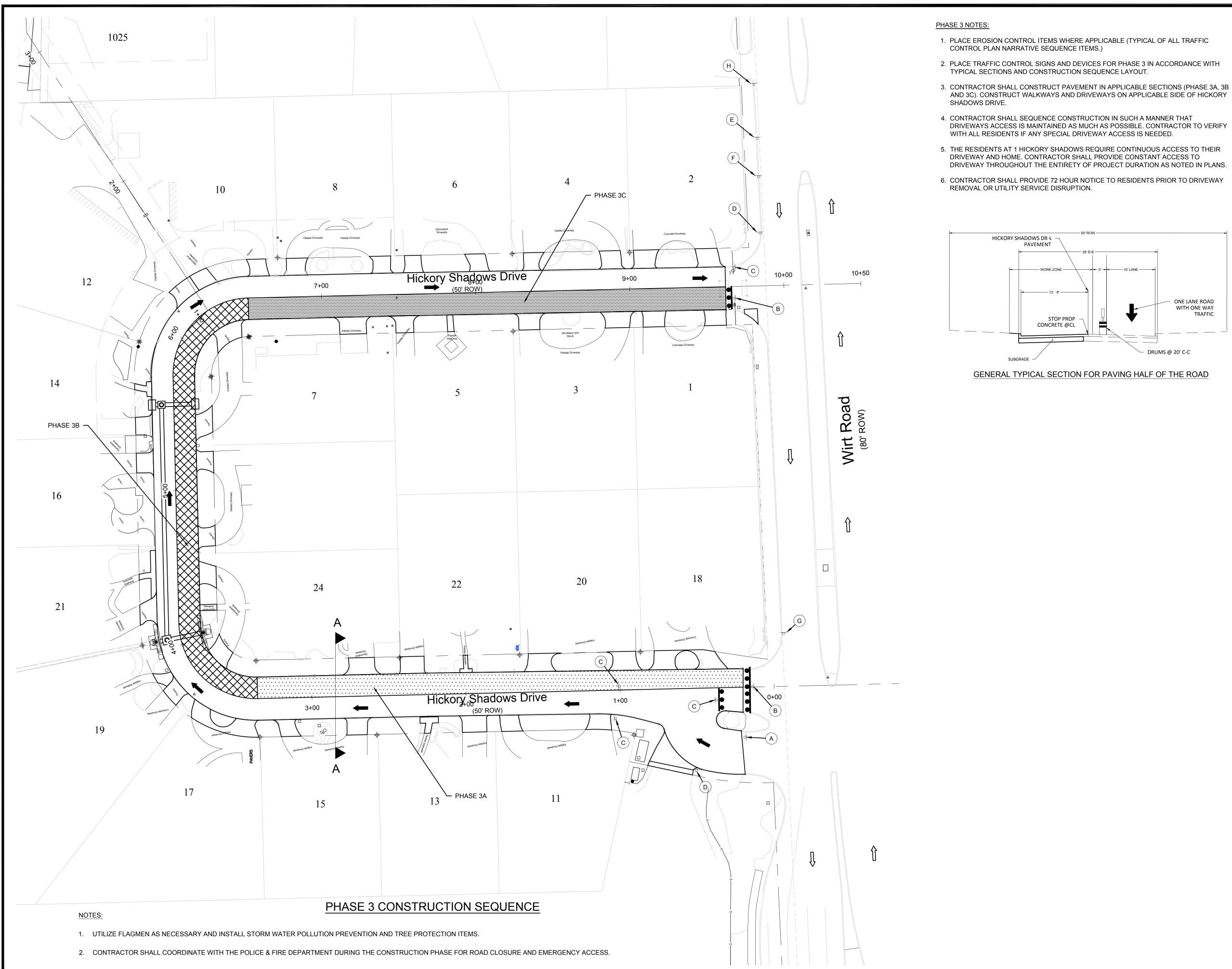
1. PLACE TRAFFIC CONTROL SIGNS IN PHASE 2 IN ACCORDANCE WITH THE TYPICAL

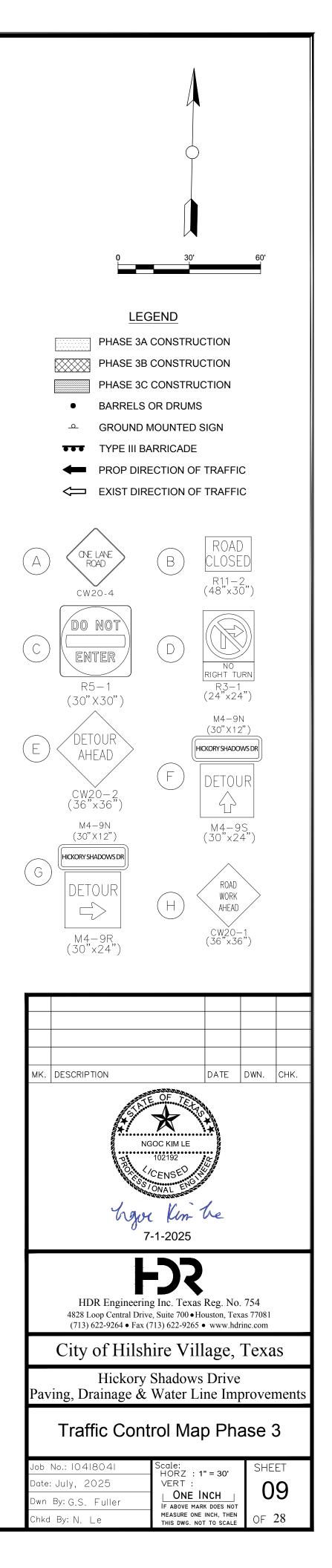
2. CONTRACTOR SHALL CONSTRUCT PAVEMENT IN SECTIONS (PHASE 2A, 2B AND 2C). CONSTRUCT WALKWAYS AND DRIVEWAYS ON APPLICABLE SIDE OF HICKORY

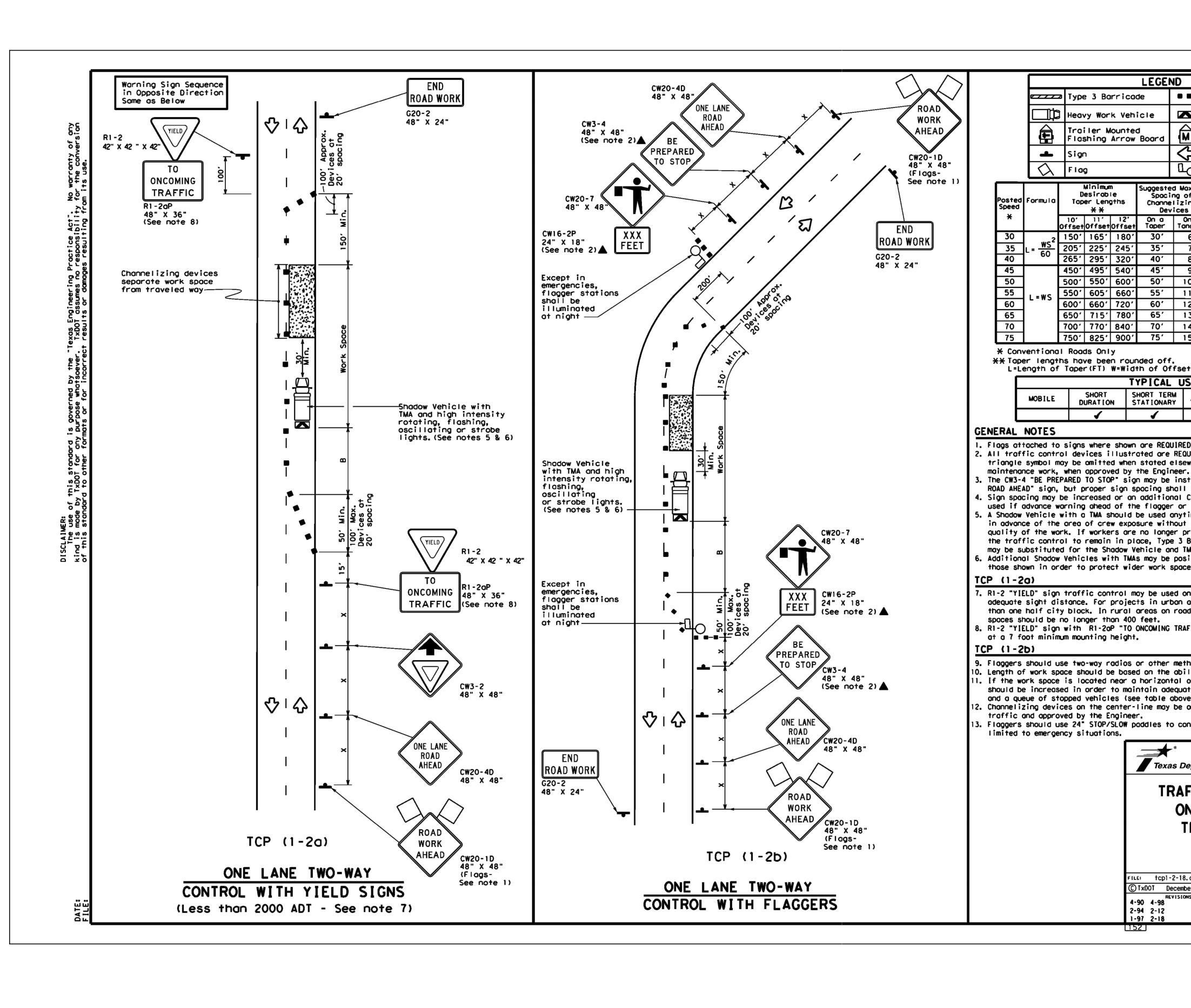
DRIVEWAYS ACCESS IS MAINTAINED AS MUCH AS POSSIBLE. CONTRACTOR TO VERIFY WITH ALL RESIDENTS IF ANY SPECIAL DRIVEWAY ACCESS IS NEEDED.

4. CONTRACTOR SHALL PROVIDE 72 HOUR NOTICE TO RESIDENTS PRIOR TO DRIVEWAY

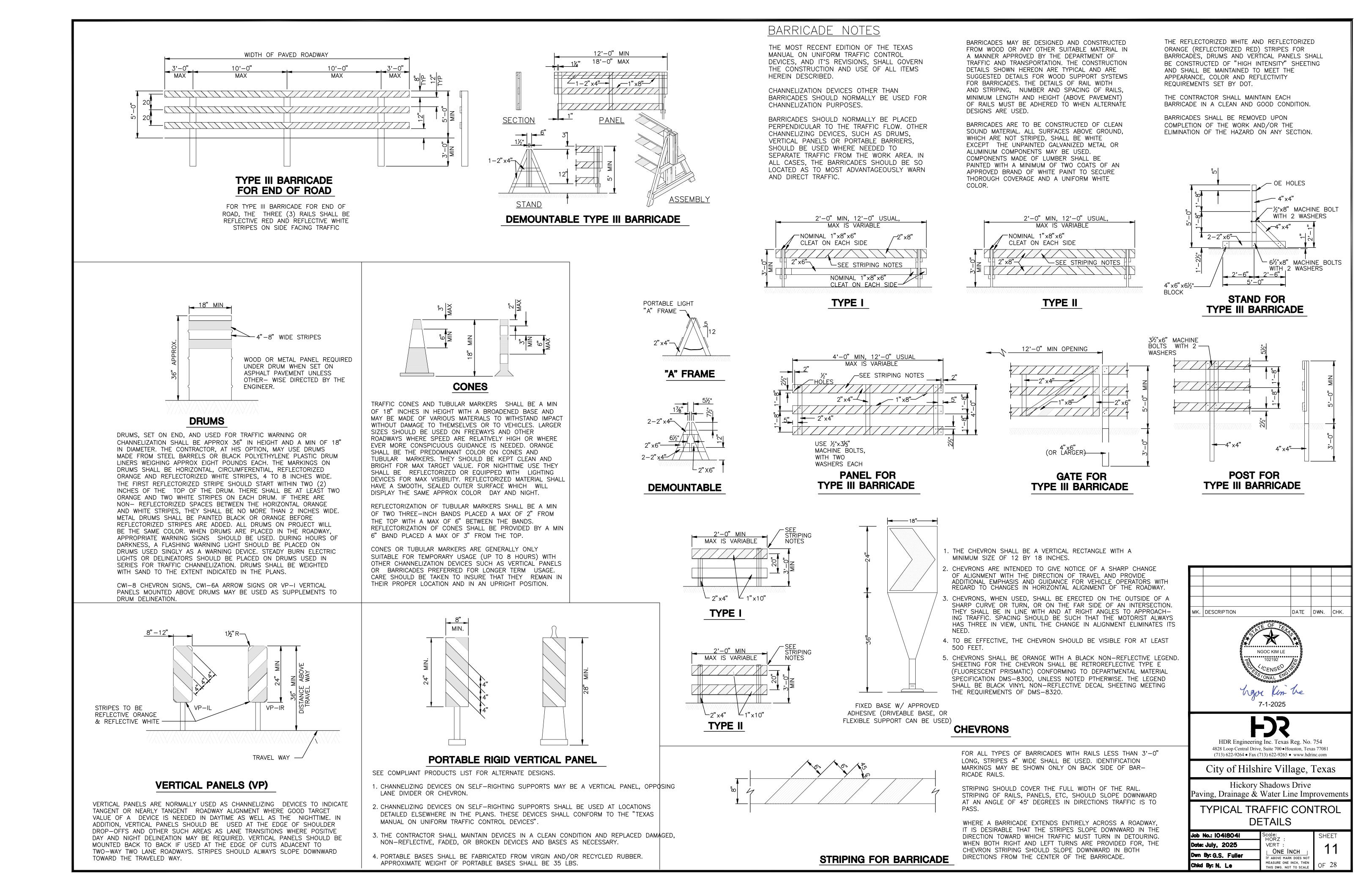


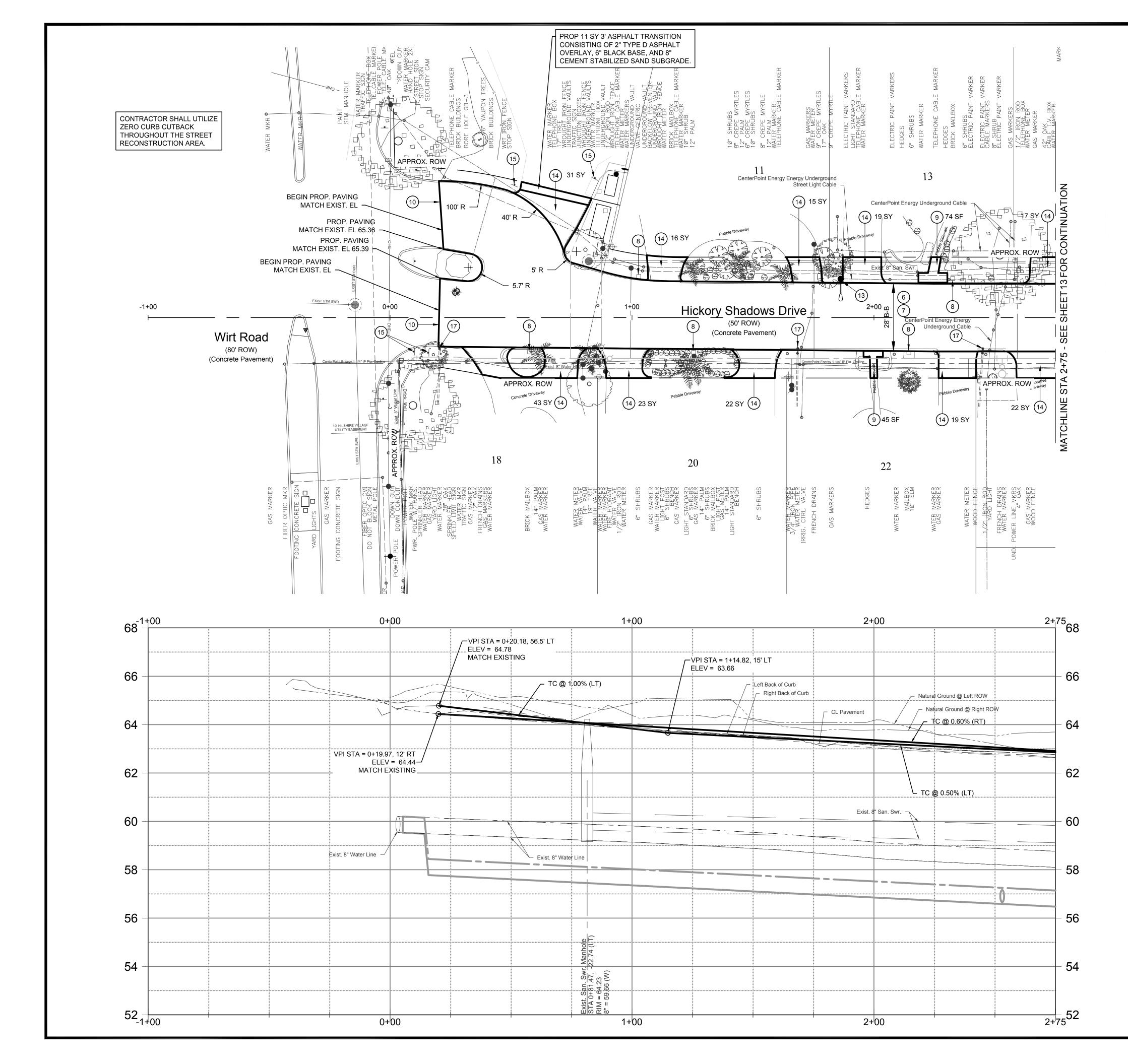


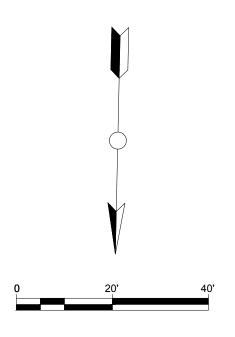




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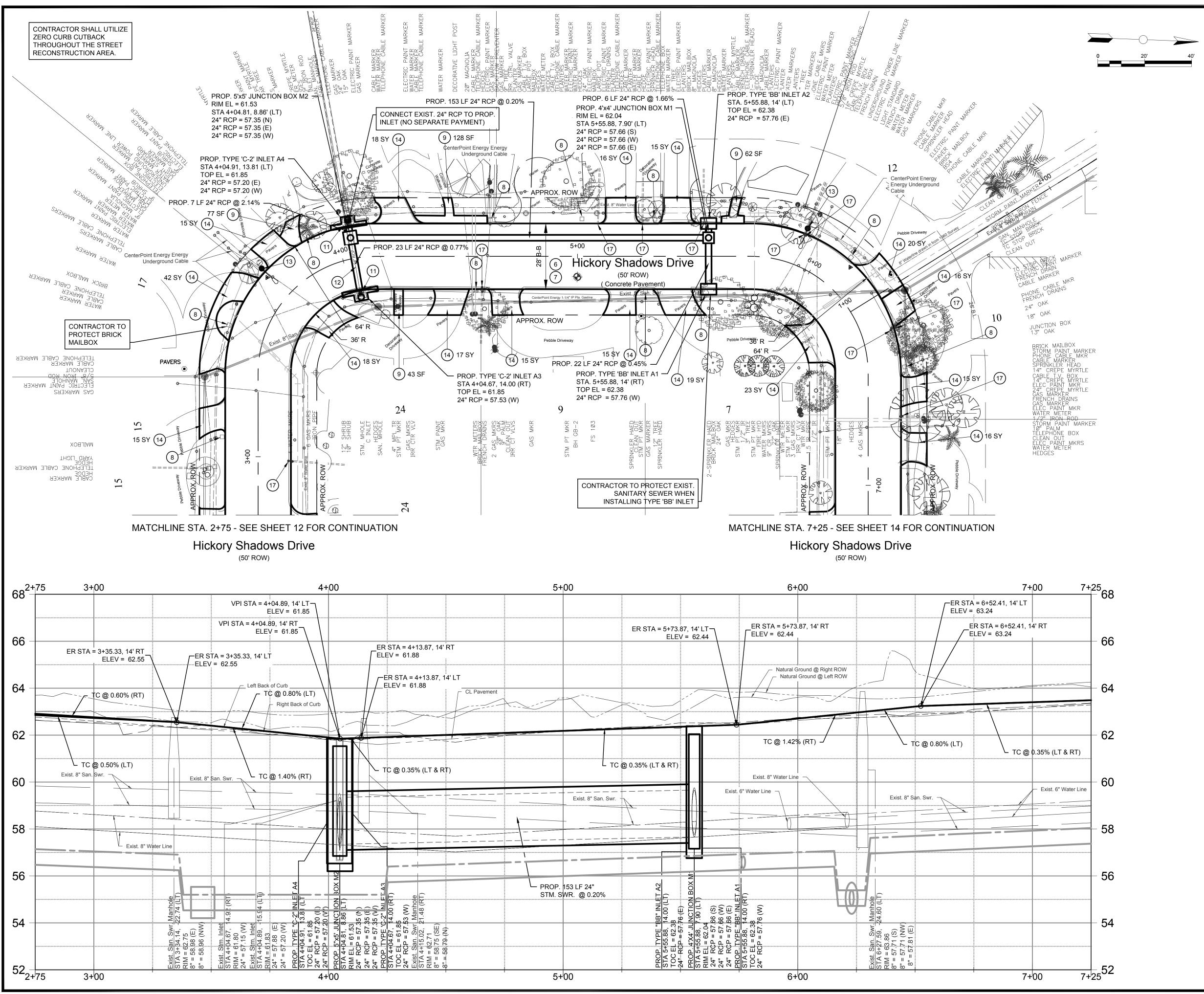






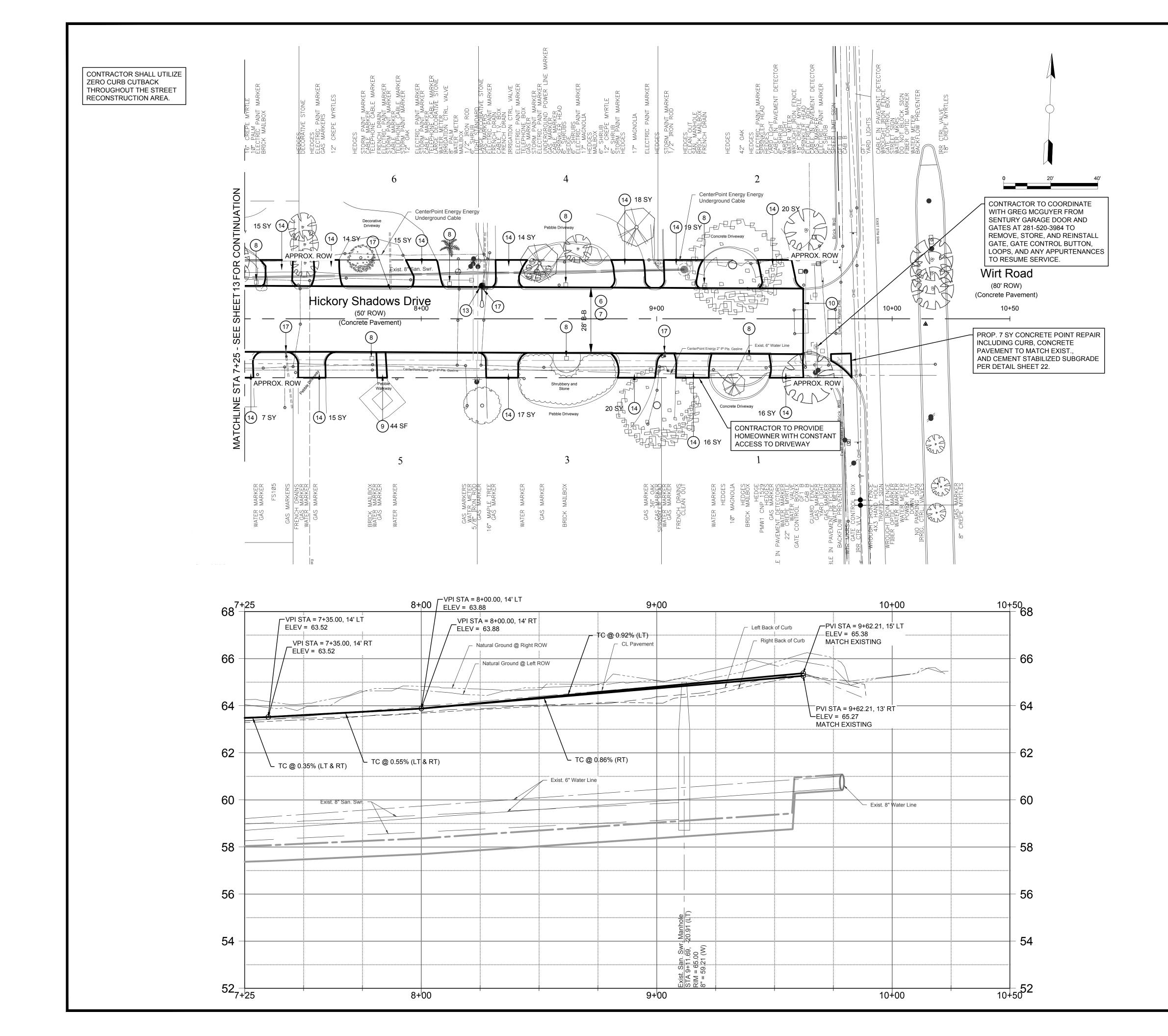
- Proposed 1  $\frac{1}{2}$ " Short Side Water Service Replacement with New Meter Box.
- Proposed 1  $\frac{1}{2}$ " Long Side Water Service Replacement with New Meter Box.
- (3) Remove and Salvage Existing Fire Hydrants.
- (4) Abandon Existing Water Valve as Per Specifications.
- (5) Abandon Existing Water Line Per Specifications.
- 6 Proposed Concrete pavement. (See Typical Single Roadway Section on Sheet 21)
- Remove and Dispose of Existing Concrete Pavement and Base Course with Curb.
- 8 Remove and Reset Mailboxes. (Contractor to Verify if Removal is Required)
- Proposed Walkway Replacement. (See Sidewalk Details on Sheet 22)
- (10) Proposed Pavement Header. (See Type I Paving Header Detail on Sheet 21)
- (I) Remove Existing Storm Sewer Inlet.
- (12) Remove Existing Storm Sewer.
- (I3) Contractor Shall Coordinate Support, Adjustment or Relocation of Power/Light Poles and/or Guy Anchors w/Owner of Poles, as Required.
- Remove and Replace Driveway with Concrete. (See Driveway Details on Sheet 22)
- (I5) Remove and Relocate Sign.
- (6) Cut and Plug Sprinkler Head at R.O.W No Replacement.
- (17) Remove and Replace existing Yard Drain using 4" PVC Pipe to penetrate through Proposed Curb. (No Separate Payment)





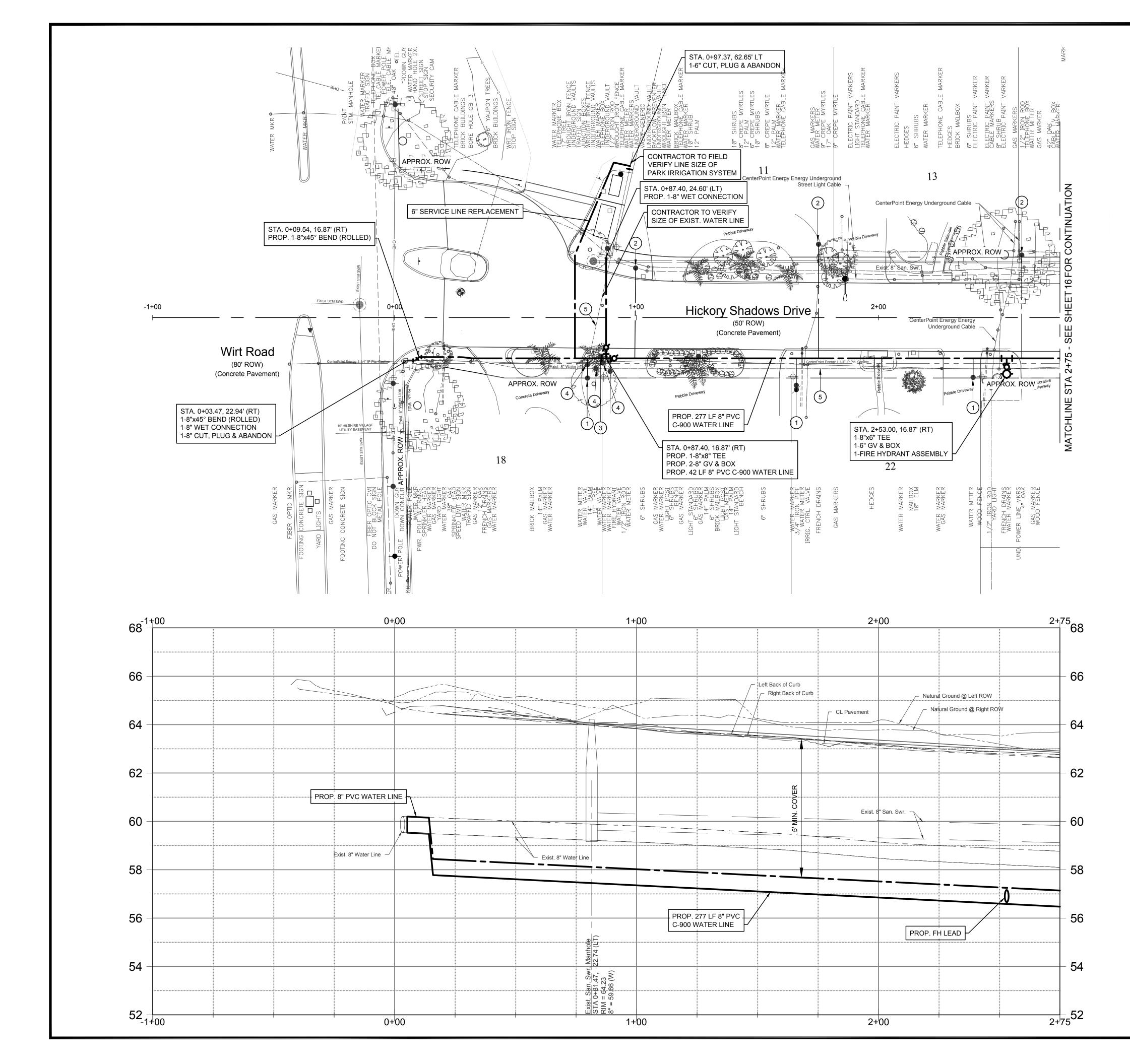
- Proposed 1  $\frac{1}{2}$ " Short Side Water Service Replacement with New Meter Box.
- Proposed 1<sup>1</sup>/<sub>2</sub>" Long Side Water Service Replacement with New Meter Box.
- 3 Remove and Salvage Existing Fire Hydrants.
- (4) Abandon Existing Water Valve as Per Specifications.
- (5) Abandon Existing Water Line Per Specifications.
- 6 Proposed Concrete pavement. (See Typical Single Roadway Section on Sheet 21)
- 7 Remove and Dispose of Existing Concrete Pavement and Base Course with Curb.
- 8 Remove and Reset Mailboxes. (Contractor to Verify if Removal is Required)
- 9 Proposed Walkway Replacement. (See Sidewalk Details on Sheet 22)
- 10 Proposed Pavement Header. (See Type I Paving Header Detail on Sheet 21)
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- Remove and Replace Driveway with Concrete. (See Driveway Details on Sheet 22)
- (15) Remove and Relocate Sign.
- (16) Cut and Plug Sprinkler Head at R.O.W No Replacement.
- (17) Remove and Replace existing Yard Drain using 4" PVC Pipe to penetrate through Proposed Curb. (No Separate Payment)

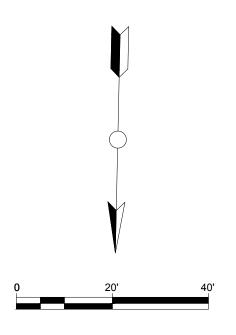
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	City of Hilsh	ire Vill	age,	Texa	IS			
Pav	Hickory Shadows Drive Paving, Drainage & Water Line Improvements							
S	HICKORY SHADOWS STA. 2+75.00 TO STA. 7+25.00							
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- Proposed  $1\frac{1}{2}$ " Short Side Water Service Replacement with New Meter Box. Proposed 1<sup>1</sup>/<sub>2</sub>" Long Side Water Service Replacement with New Meter Box. 3 Remove and Salvage Existing Fire Hydrants. (4) Abandon Existing Water Valve as Per Specifications. 5 Abandon Existing Water Line Per Specifications. 6 Proposed Concrete pavement. (See Typical Single Roadway Section on Sheet 21) 7 Remove and Dispose of Existing Concrete Pavement and Base Course with Curb. 8 Remove and Reset Mailboxes. (Contractor to Verify if Removal is Required) Proposed Walkway Replacement. (See Sidewalk Details on Sheet 22) (IO) Proposed Pavement Header. (See Type I Paving Header Detail on Sheet 21) (I) Remove Existing Storm Sewer Inlet. (12) Remove Existing Storm Sewer. (13) Contractor Shall Coordinate Support, Adjustment or Relocation of Power/Light Poles and/or Guy Anchors w/Owner of Poles, as Required. Remove and Replace Driveway with Concrete. (See Driveway Details on Sheet 22) (I5) Remove and Relocate Sign.
- (6) Cut and Plug Sprinkler Head at R.O.W No Replacement.
- (17) Remove and Replace existing Yard Drain using 4" PVC Pipe to penetrate through Proposed Curb. (No Separate Payment)

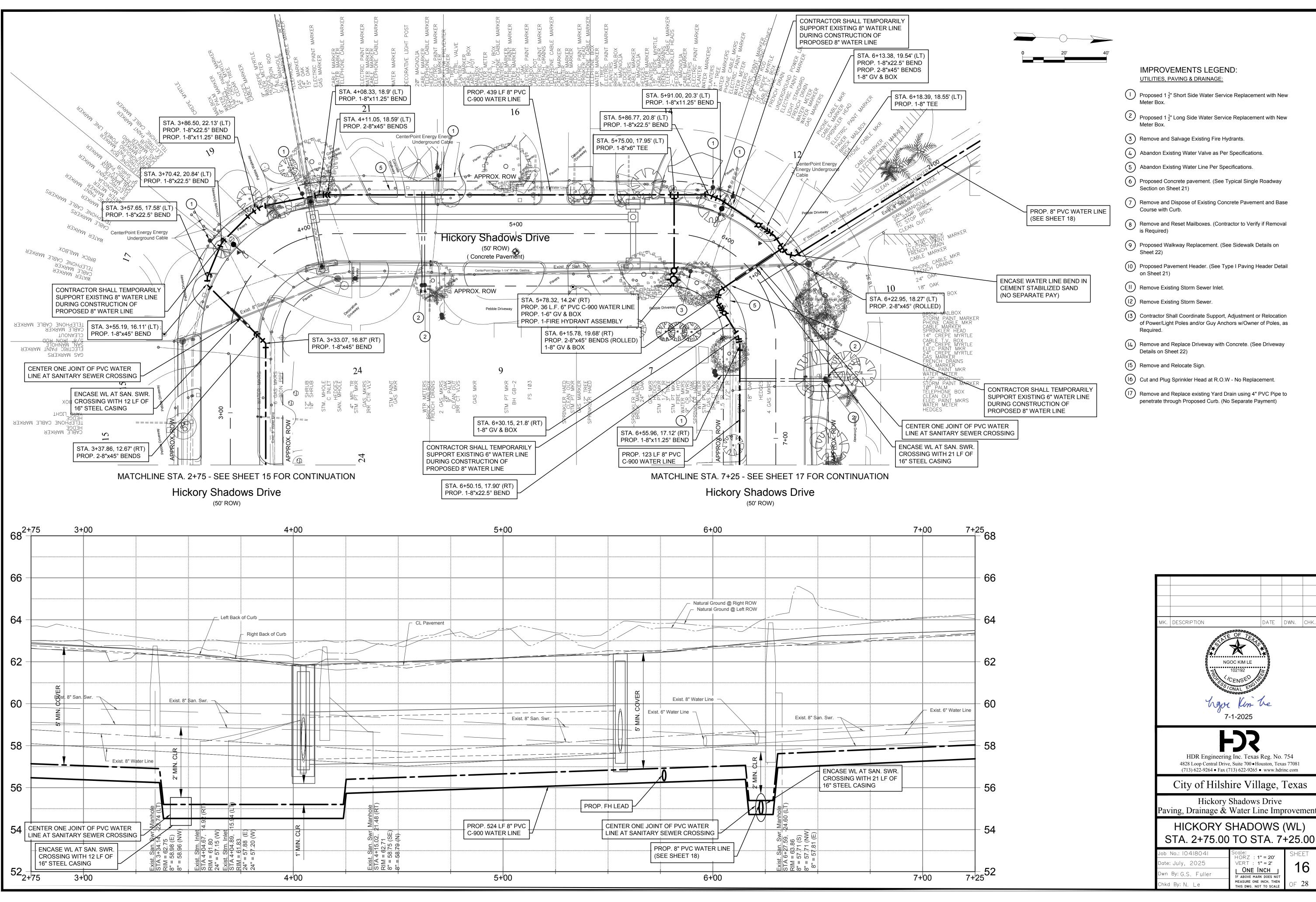






- Proposed 1  $\frac{1}{2}$ " Short Side Water Service Replacement with New Meter Box.
- Proposed 1  $\frac{1}{2}$ " Long Side Water Service Replacement with New Meter Box.
- (3) Remove and Salvage Existing Fire Hydrants.
- (4) Abandon Existing Water Valve as Per Specifications.
- (5) Abandon Existing Water Line Per Specifications.
- 6 Proposed Concrete pavement. (See Typical Single Roadway Section on Sheet 21)
- Remove and Dispose of Existing Concrete Pavement and Base Course with Curb.
- 8 Remove and Reset Mailboxes. (Contractor to Verify if Removal is Required)
- Proposed Walkway Replacement. (See Sidewalk Details on Sheet 22)
- (10) Proposed Pavement Header. (See Type I Paving Header Detail on Sheet 21)
- I Remove Existing Storm Sewer Inlet.
- (12) Remove Existing Storm Sewer.
- (I3) Contractor Shall Coordinate Support, Adjustment or Relocation of Power/Light Poles and/or Guy Anchors w/Owner of Poles, as Required.
- Remove and Replace Driveway with Concrete. (See Driveway Details on Sheet 22)
- (I5) Remove and Relocate Sign.
- (16) Cut and Plug Sprinkler Head at R.O.W No Replacement.
- (17) Remove and Replace existing Yard Drain using 4" PVC Pipe to penetrate through Proposed Curb. (No Separate Payment)





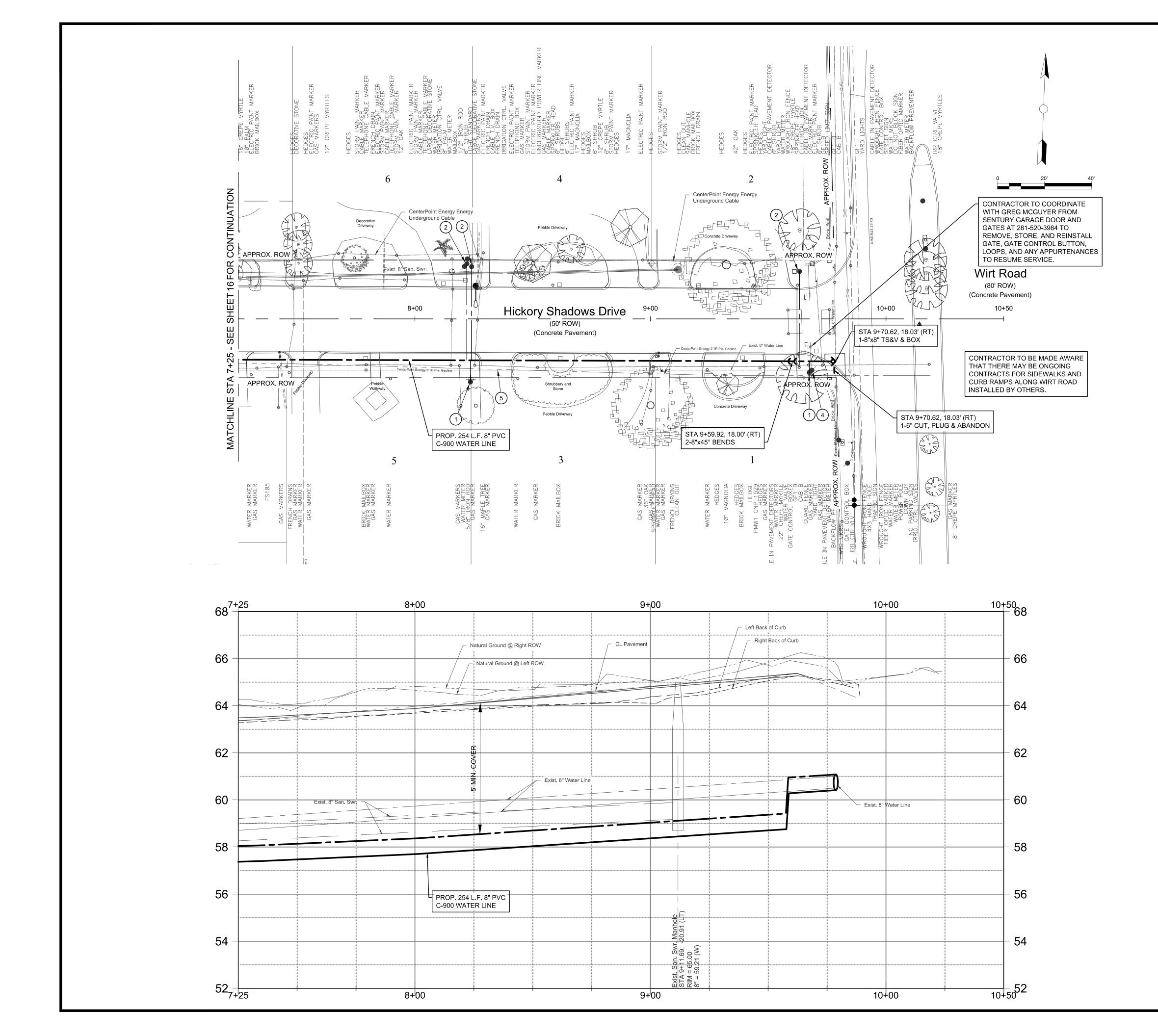
- Proposed 1<sup>1</sup>/<sub>2</sub>" Short Side Water Service Replacement with New
- Proposed 1<sup>1</sup>/<sub>2</sub>" Long Side Water Service Replacement with New Meter Box.
- (4) Abandon Existing Water Valve as Per Specifications.
- 6 Proposed Concrete pavement. (See Typical Single Roadway
- (7) Remove and Dispose of Existing Concrete Pavement and Base
- 8 Remove and Reset Mailboxes. (Contractor to Verify if Removal is Required)
- (10) Proposed Pavement Header. (See Type I Paving Header Detail on Sheet 21)

- (3) Contractor Shall Coordinate Support, Adjustment or Relocation of Power/Light Poles and/or Guy Anchors w/Owner of Poles, as
- (I4) Remove and Replace Driveway with Concrete. (See Driveway
- (6) Cut and Plug Sprinkler Head at R.O.W No Replacement.
- (17) Remove and Replace existing Yard Drain using 4" PVC Pipe to penetrate through Proposed Curb. (No Separate Payment)

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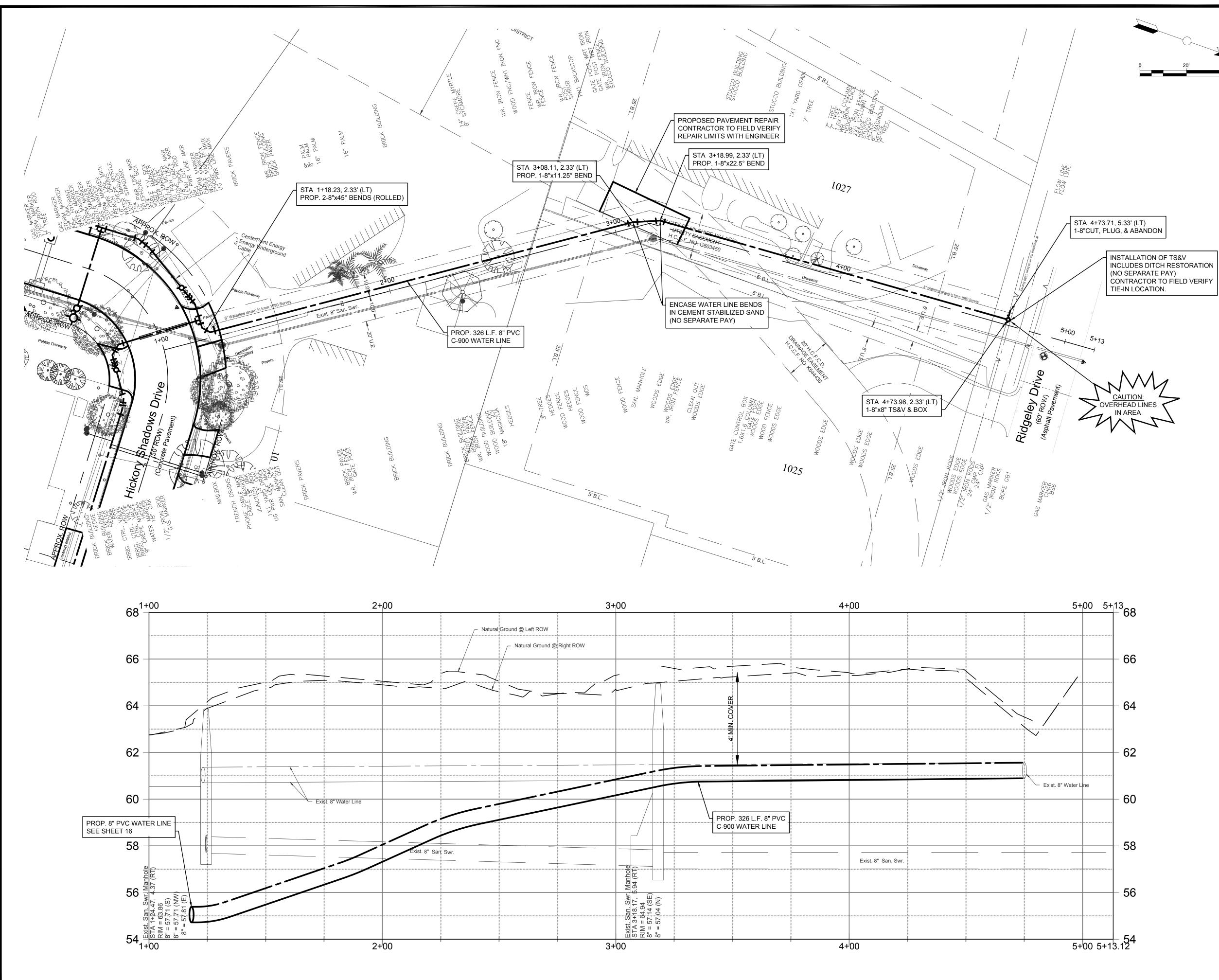
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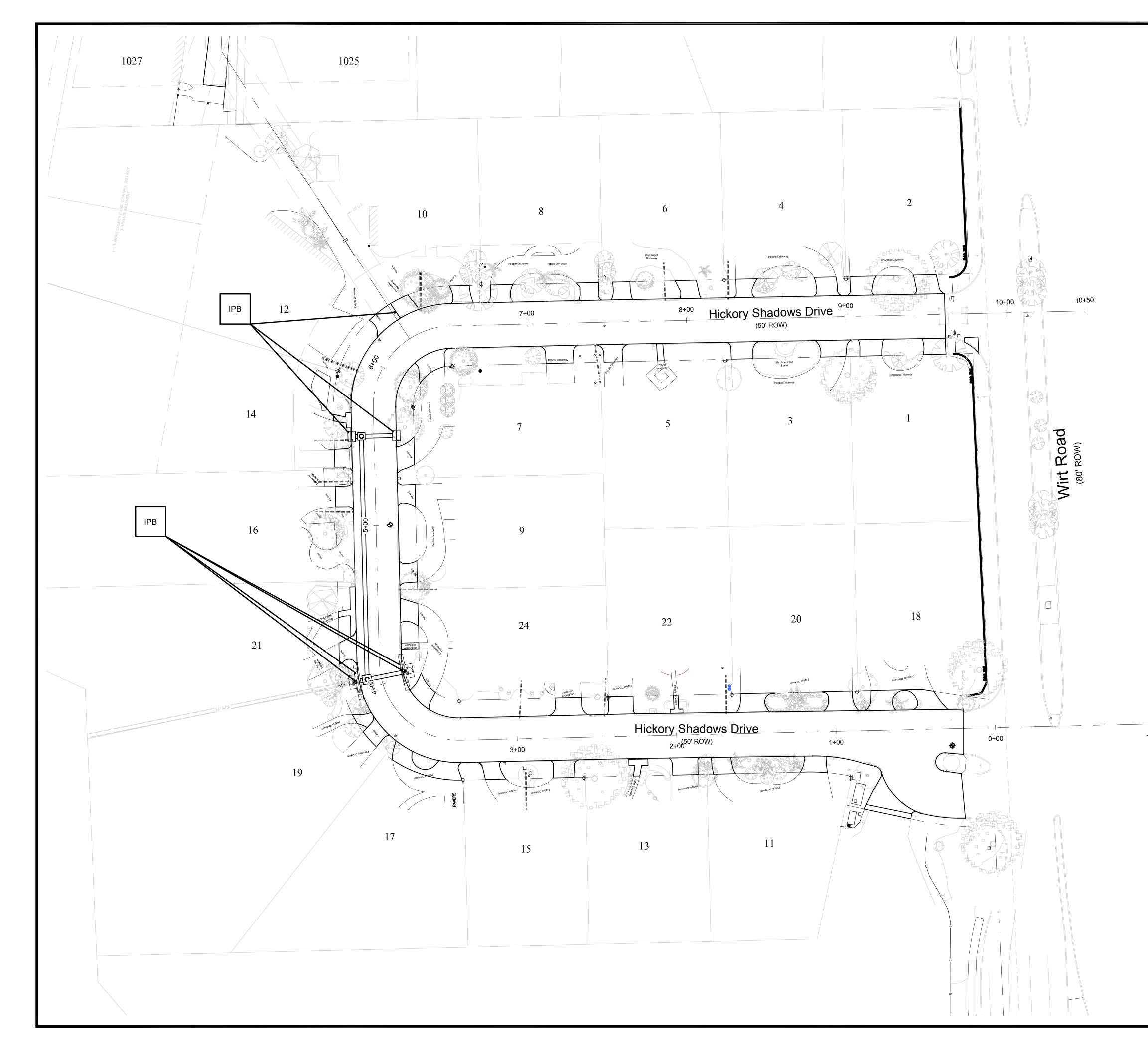
- Proposed  $1\frac{1}{2}$ " Short Side Water Service Replacement with New Meter Box Proposed 1  $\frac{1}{2}$ " Long Side Water Service Replacement with New Meter Box. 3 Remove and Salvage Existing Fire Hydrants. (4) Abandon Existing Water Valve as Per Specifications. 5 Abandon Existing Water Line Per Specifications. 6 Proposed Concrete pavement. (See Typical Single Roadway Section on Sheet 21) Remove and Dispose of Existing Concrete Pavement and Base Course with Curb. 8 Remove and Reset Mailboxes. (Contractor to Verify if Removal is Required) Proposed Walkway Replacement. (See Sidewalk Details on Sheet 22) (IO) Proposed Pavement Header. (See Type I Paving Header Detail on Sheet 21) (I) Remove Existing Storm Sewer Inlet. (12) Remove Existing Storm Sewer. (3) Contractor Shall Coordinate Support, Adjustment or Relocation of Power/Light Poles and/or Guy Anchors w/Owner of Poles, as Required. Remove and Replace Driveway with Concrete. (See Driveway Details on Sheet 22) (I5) Remove and Relocate Sign.
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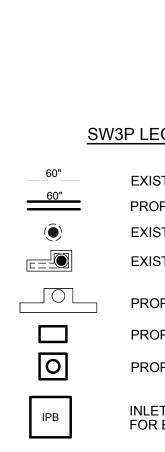
- Proposed 1  $\frac{1}{2}$ " Short Side Water Service Replacement with New Meter Box.
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- (17) Remove and Replace existing Yard Drain using 4" PVC Pipe to penetrate through Proposed Curb. (No Separate Payment)





NOTES:

- 1. ALL STORM WATER POLLUTION PREVENTION FEATURES APPLIED FOR EXISTING CONDITIONS SHALL REMAIN IN EFFECT THROUGHOUT CONSTRUCTION PROGRESS AS REQUIRED.
- 2. ALL SWPPP FEATURE LOCATIONS ARE APPROXIMATE. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD AND ADJUST AS REQUIRED TO ASSURE COMPLIANCE WITH SWPPP SPECIFICATIONS INCLUDING PROTECTION OF PRIVATE PROPERTIES.
- 3. INLET PROTECTION BARRIERS SHALL BE INSTALLED FOR EXISTING AND PROPOSED SITUATIONS AS REQUIRED.



### SW3P LEGEND

EXISTING STORM SEWER PROPOSED STORM SEWER EXISTING MANHOLE

EXISTING "C" INLET

PROPOSED "C" INLET PROPOSED "BB" INLET

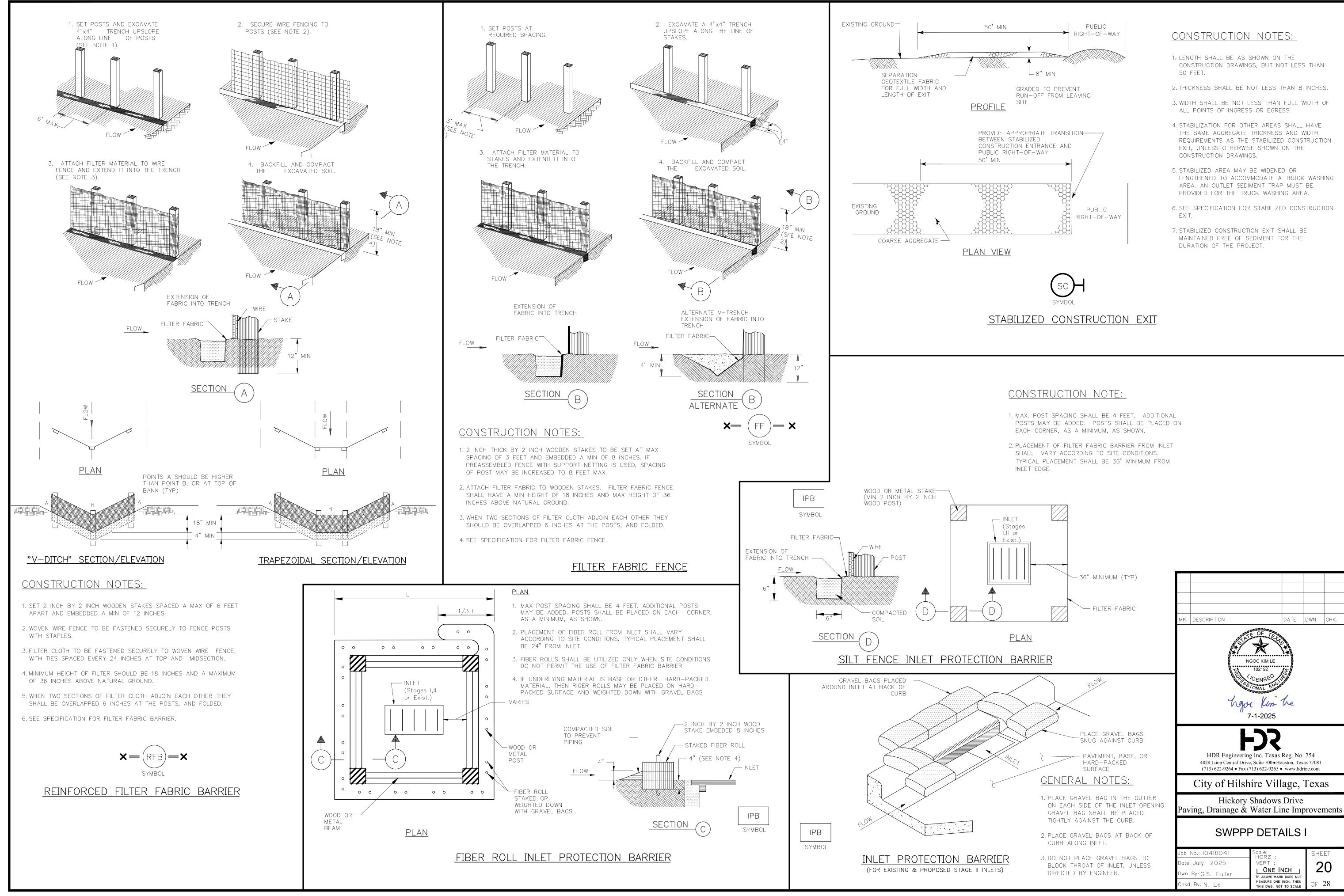
PROPOSED JUNCTION BOX

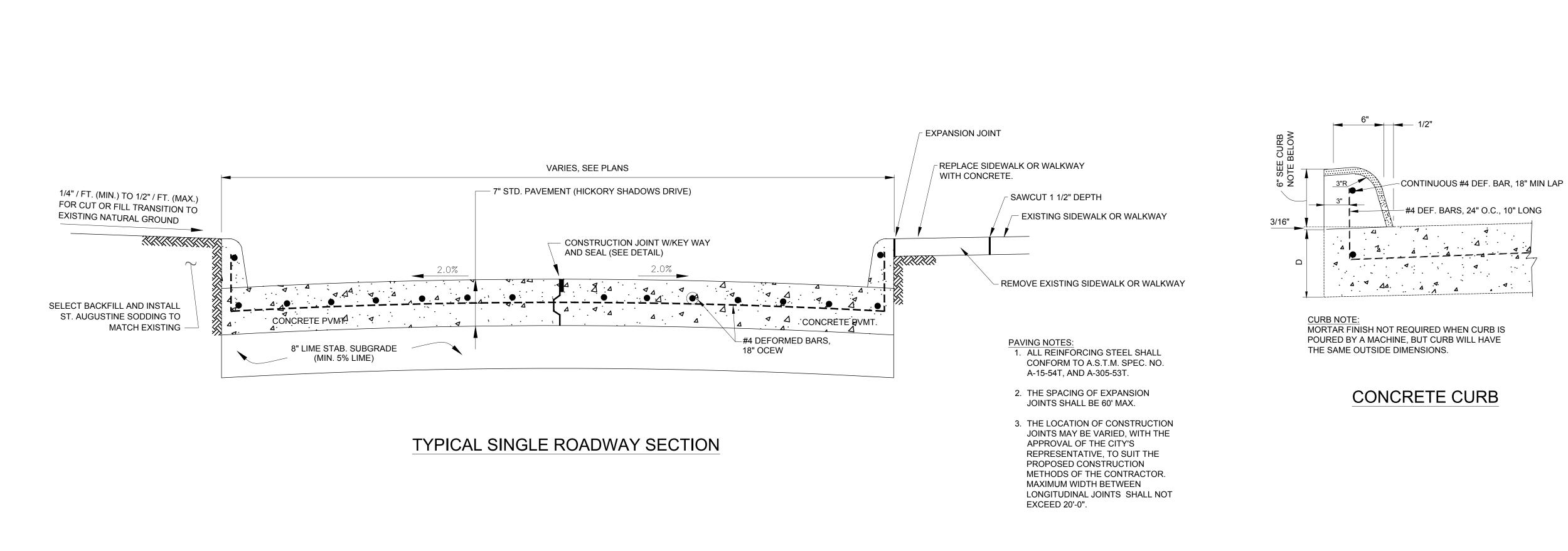
INLET PROTECTION BARRIER FOR EXIST. AND PROP. INLETS

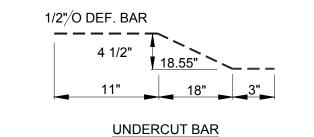
----- ROW IN PROJECT AREA

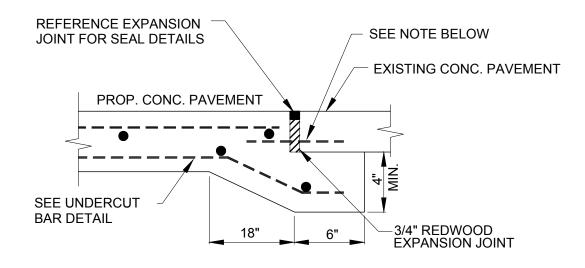


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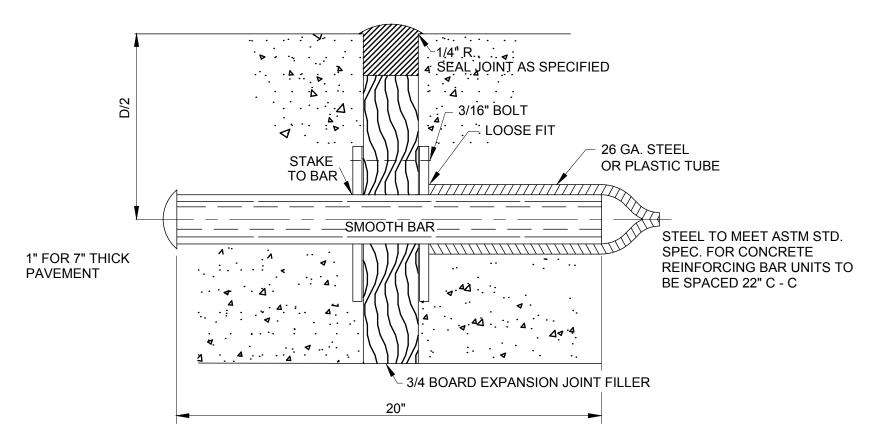






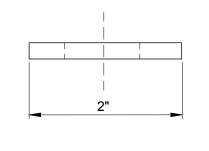
NOTE: PROVIDE 1" (7" THK. PAVEMENT) DIAMETER SMOOTH STEEL BAR, 20" LONG ON 12" CENTERS. END TREATMENT SHALL MATCH EXPANSION JOINT ADJACENT TO HEADER. WHERE THE ADJACENT DOWEL INTO EXPANSION JOINT HAS A SLIP SLEEVE ADJACENT TO HEADER, DRILL HOLE AND DRIVE EXISTING PAVEMENT. WHERE ADJACENT EXPANSION JOINT HAS A SLIP SLEEVE OPPOSITE TO THE HEADER, DRILL AND EPOXY DOWEL INTO EXISTING PAVEMENT WITH "PRO-ROC" OR EQUAL, AND PROVIDE SLIP SLEEVE ON EXPOSED END. FULL DEPTH SAW CUT DOWEL IN MIN. 10" USING TXDOT APPROVED EPOXY.

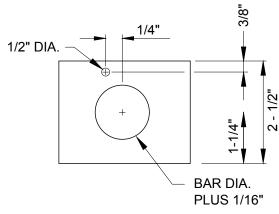
**TYPE I PAVING HEADER DETAIL** 



DOWEL TYPE EXPANSION JOINT

 $\bigtriangledown$  USE #4 bars – 36" long on 18" C–C to  $\checkmark$  TIE pavement reinforcement across joint .·Δ· Δ΄ · 4ª 4 Δ 4 ∽KEYED JOINT (METAL STRIP) TO BE REMOVED PRIOR TO SECOND CONCRETE PLACEMENT

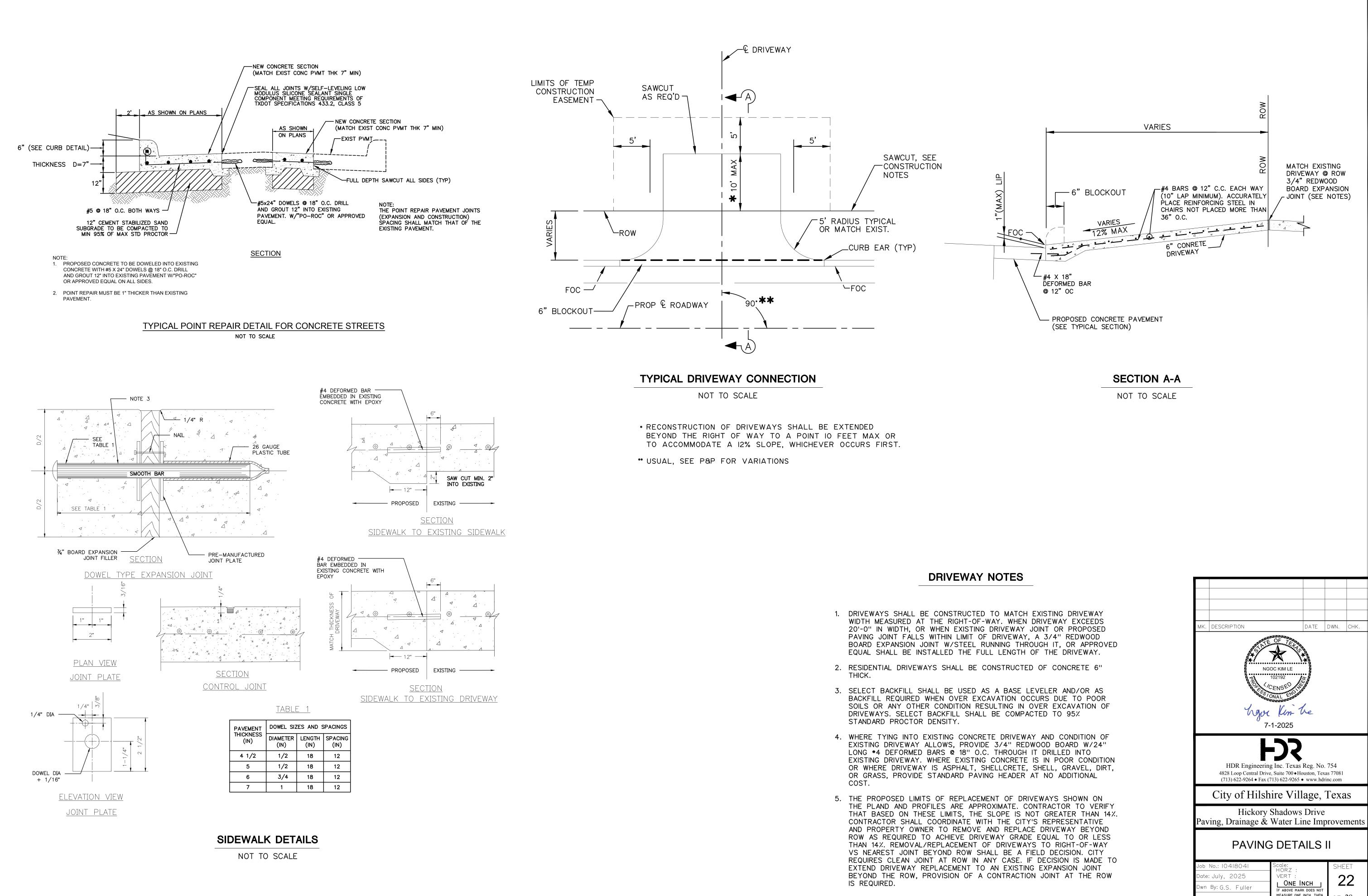




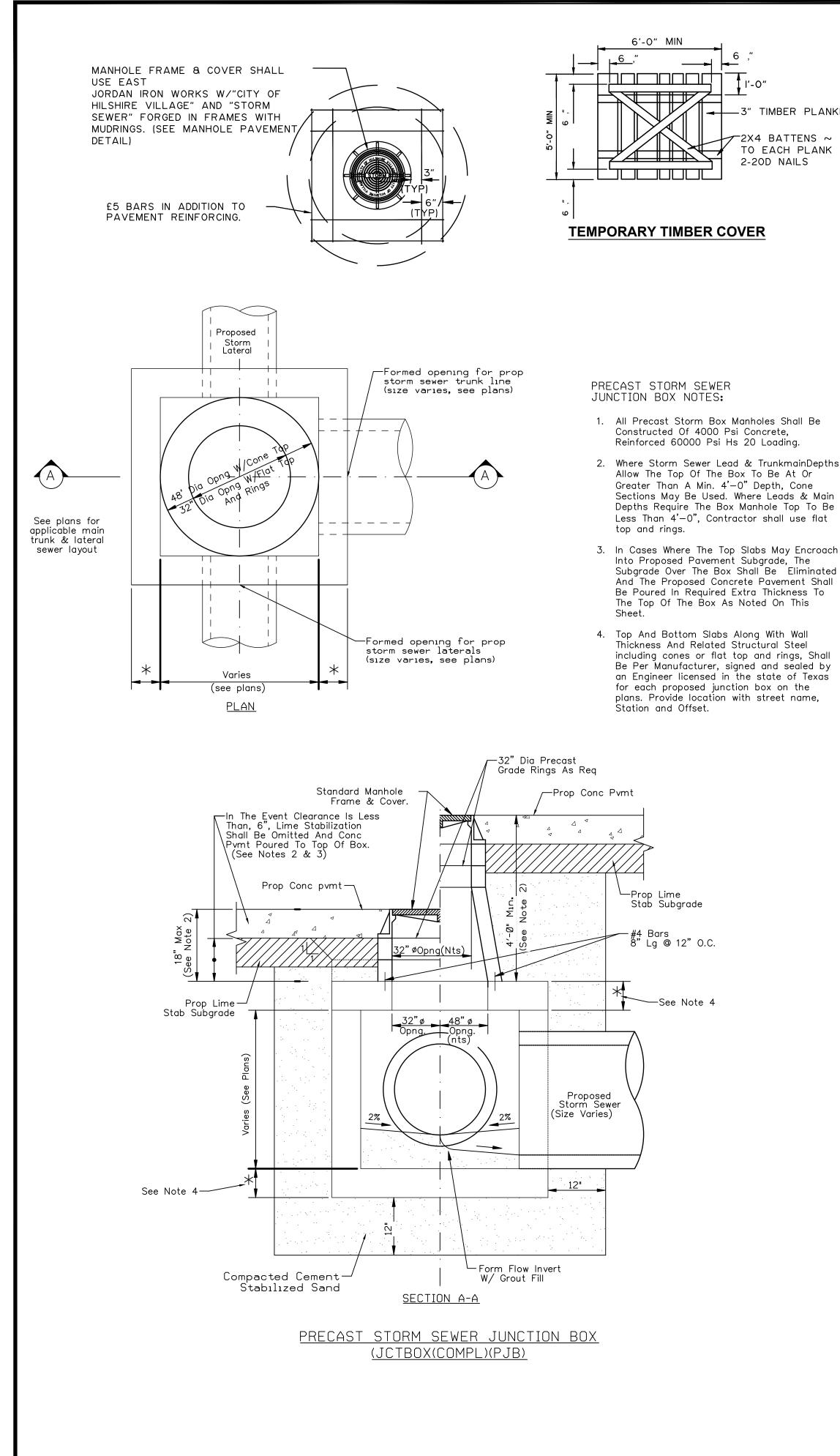
EXPANSION JOINT TO BE PLACED AT THE END OF EACH CURB RADIUS AND SPACED APPROX. 60' APART







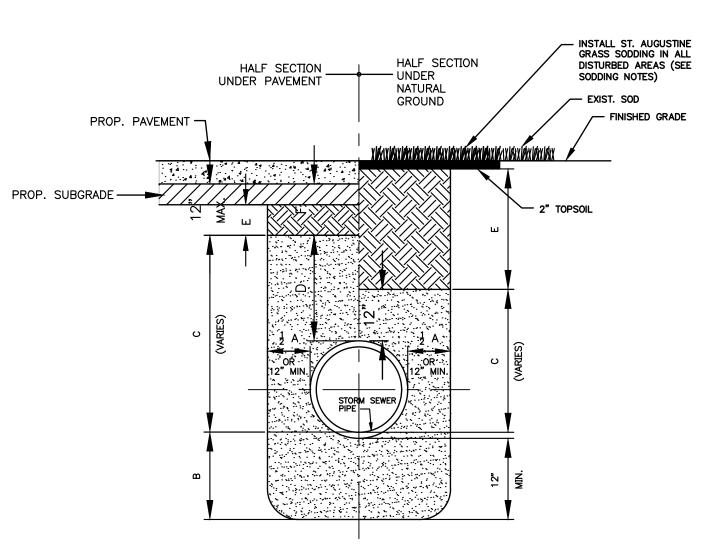
Job No.: 10418041	Scale: HOR7 :	SHEET
Date: July, 2025	VERT :	່າງ
Dwn By:G.S. Fuller	ONE INCH	
Chkd By: N. Le	MEASURE ONE INCH, THEN THIS DWG. NOT TO SCALE	OF 28



### 1'-0'

TIMBER PLANKING

-2X4 BATTENS ~ NAIL TO EACH PLANK WITH 2-20D NAILS



# BEDDING AND BACKFILL DETAIL FOR STORM SEWER PIPES UNDER PAVEMENT AND UNDER NATURAL GROUND NOT TO SCALE

### GENERAL NOTES:

- 1. TRENCH EXCAVATION, BEDDING & BACKFILL COSTS ARE INCIDENTAL TO PIPE INSTALLATION AND ARE BASED ON THE LIMITS SHOWN IN THESE DETAILS. ANY COST INCURRED FOR AREAS EXCAVATED AND OR REQUIRING BACKFILL BEYOND THESE LIMITS RESULTING FROM CONTRACTORS FAILURE TO CONTROL THESE LIMITS SHALL BE BORNE BY THE CONTRACTOR.
- 2. MAX TRENCH WIDTH SHALL NOT BE GREATER THAN MIN TRENCH WIDTH PLUS 24". UNLESS OTHERWISE NOTED.
- 3. IF OUTSIDE EDGE OF PIPE IS WITHIN 3' OF BACK OF CURB, BACKFILL SHALL BE PERFORMED AS UNDER PAVEMENT.

BEDDING AND BACKFILL NOTES FOR STORM SEWER INSTALLATION;

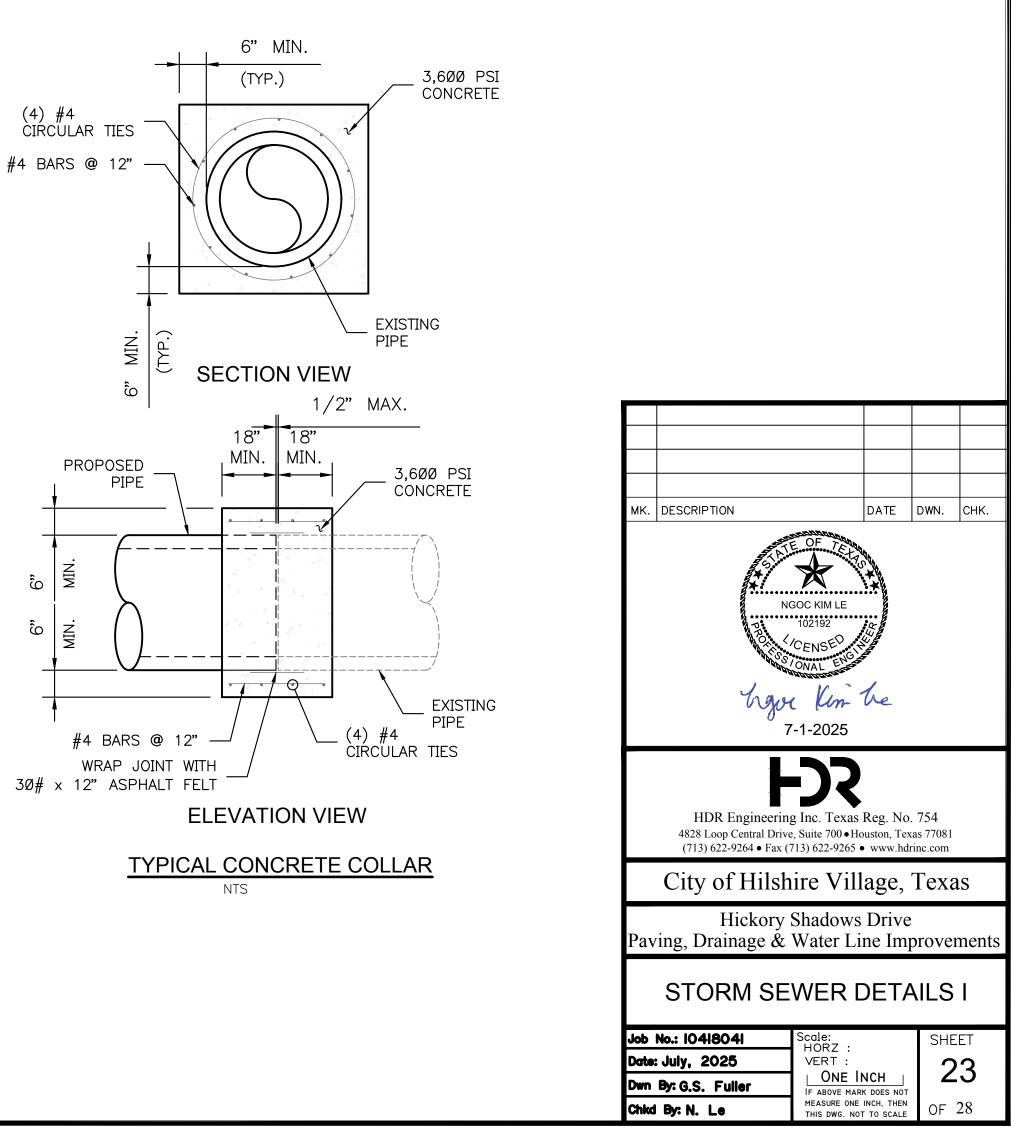
Α.	MIN. TRENCH WIDTH SHALL BE	PIPE O.D. PLUS AN ALLOWANCE "A
	FOR THE NOMINAL PIPE SIZE:	
	<u>NOMINAL PIPE SIZE</u>	"A"
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	18" TO 3Ø"	24"

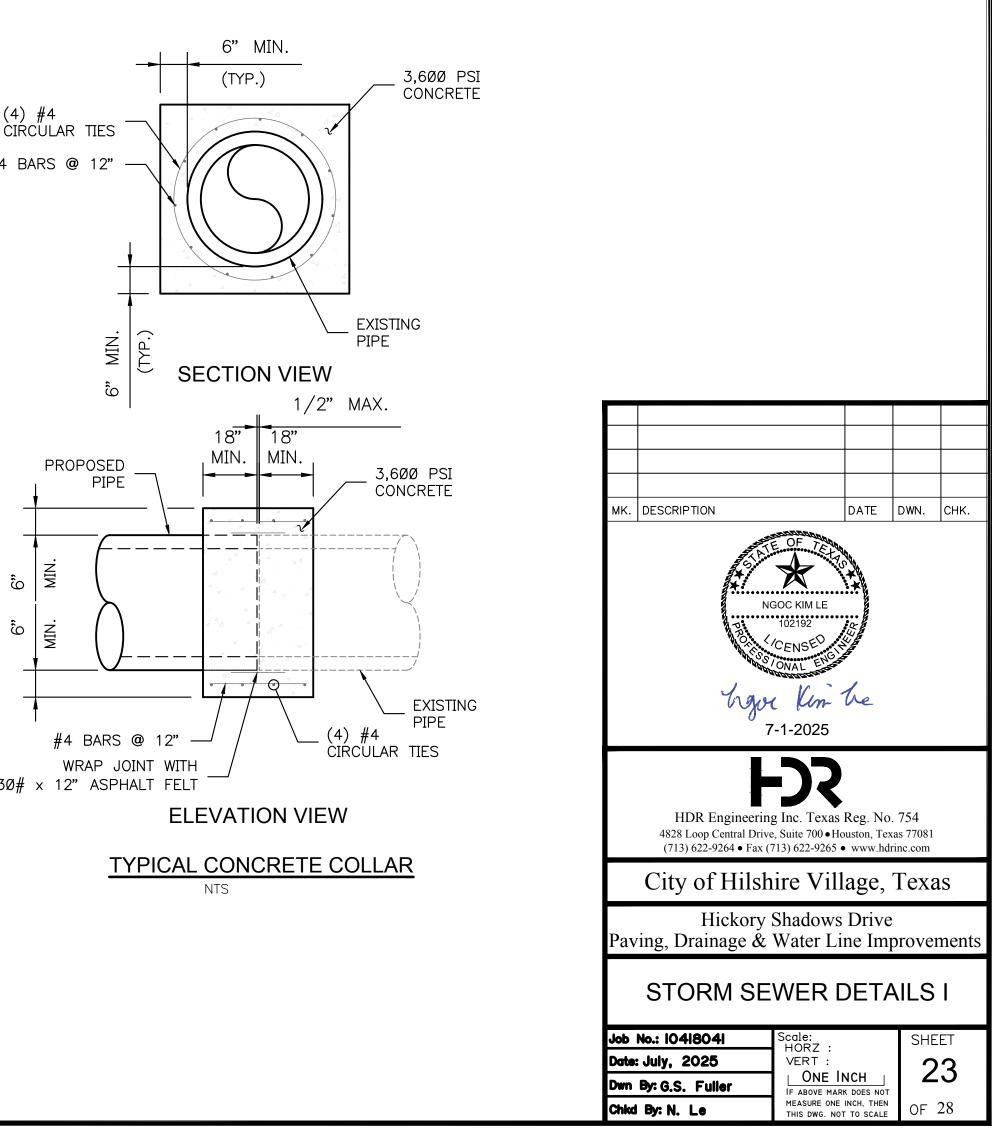
	18" TO	3Ø"			
	>3Ø	,			
т	STARII IZED	SAND	(1	1	540

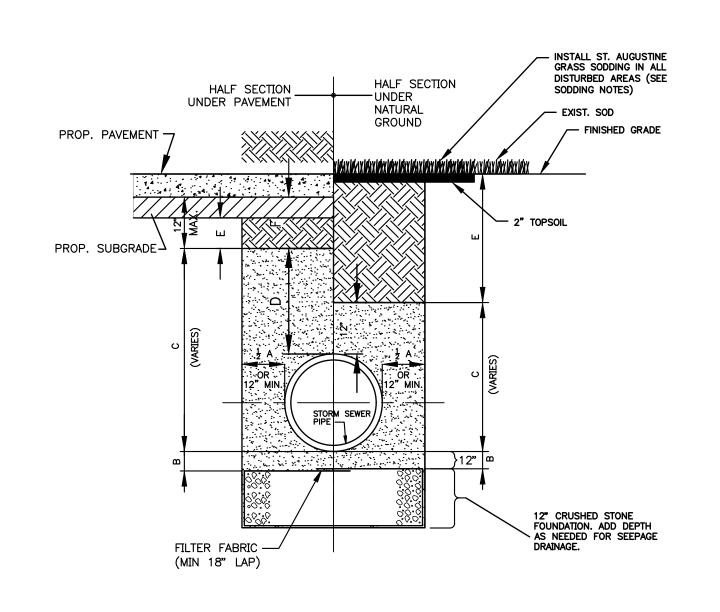
- B. CEMENT STABILIZED SAND (1.1 SACKS OF CEMENT PER TON, COMPACTED TO AT LEAST 95% OF MAX. STD. PROCTOR) PLACED BEFORE PIPE IS LAID UP TO FLOW LINE OF PIPE OR ABOVE-MINIMUM DEPTH =  $12^{\circ}$ .
- C. CEMENT STABILIZED SAND (AS SPECIFIED ABOVE) THOROUGHLY RODDED, PLACED AFTER PIPE IS LAID.
- D. CEMENT STABILIZED SAND TO 12-IN BELOW TOP OF SUBGRADE.
- E. SELECT EARTH BACKFILL WITH MAX LIQUID LIMIT OF 40, MIN. P.I. OF 7, MAX P.I. OF 20 CONTAINING NO ROCKS OR OTHER DEBRIS NOR CONTAINING ANY DIRT CLODS EXCEEDING 6" IN ANY DIMENSION. PLACED IN 6" LAYERS, MOISTENED IF NECESSARY AND THOROUGHLY COMPACTED TO 95% DENSITY AS DETERMINED BY BY ASTM D698, UNLESS OTHERWISE NOTED. IN SITU SOILS MAY BE UTILIZE ONLY IF IT MEETS THIS CRITERIA AND SUITABLE MATERIAL CLASSIFICATION PER THE SPECIFICATIONS.
- F. IN THE EVENT DIMENSION IS LESS THAN 8", CEMENT STABILIZED SAND SHALL BE EXTENDED TO BOTTOM OF CONCRETE.

SODDING NOTES FOR STORM SEWER INSTALLATION:

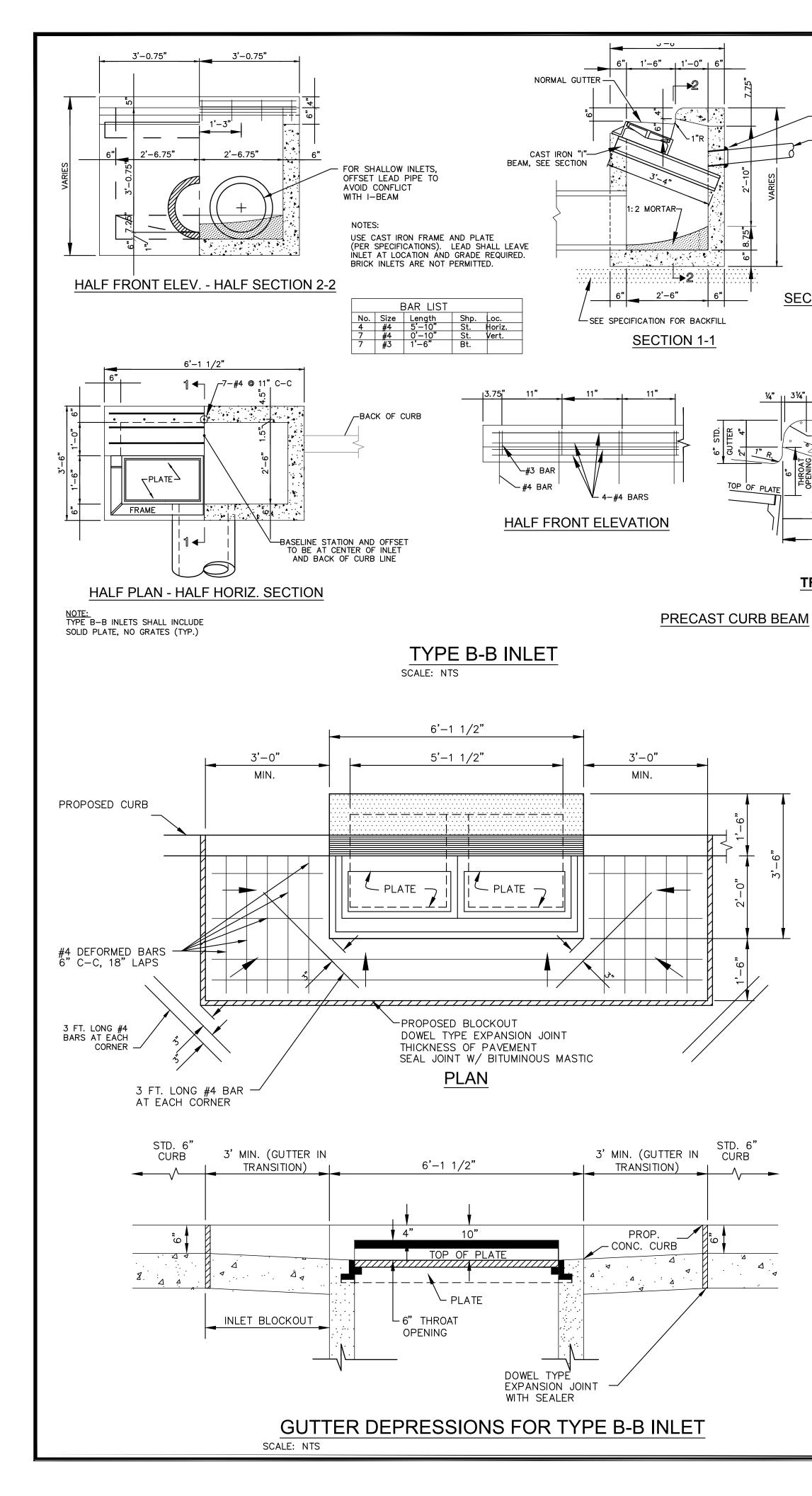
- 1. SODDING SHALL BE INSTALLED IN AREAS DISTURBED BY CONSTRUCTION. 2. CONTRACTOR SHALL REPLACE SODDING IN AREAS DAMAGED BY
- CONSTRUCTION AND THE REPLACEMENT SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
- 3. IF EXISTING LANDSCAPING OTHER THAN GRASS IS WITHIN THESE AREAS, THE CONTRACTOR SHALL REBUILD OR REINSTALL THE LANDSCAPING PER THE PERTINENT BID ITEM.

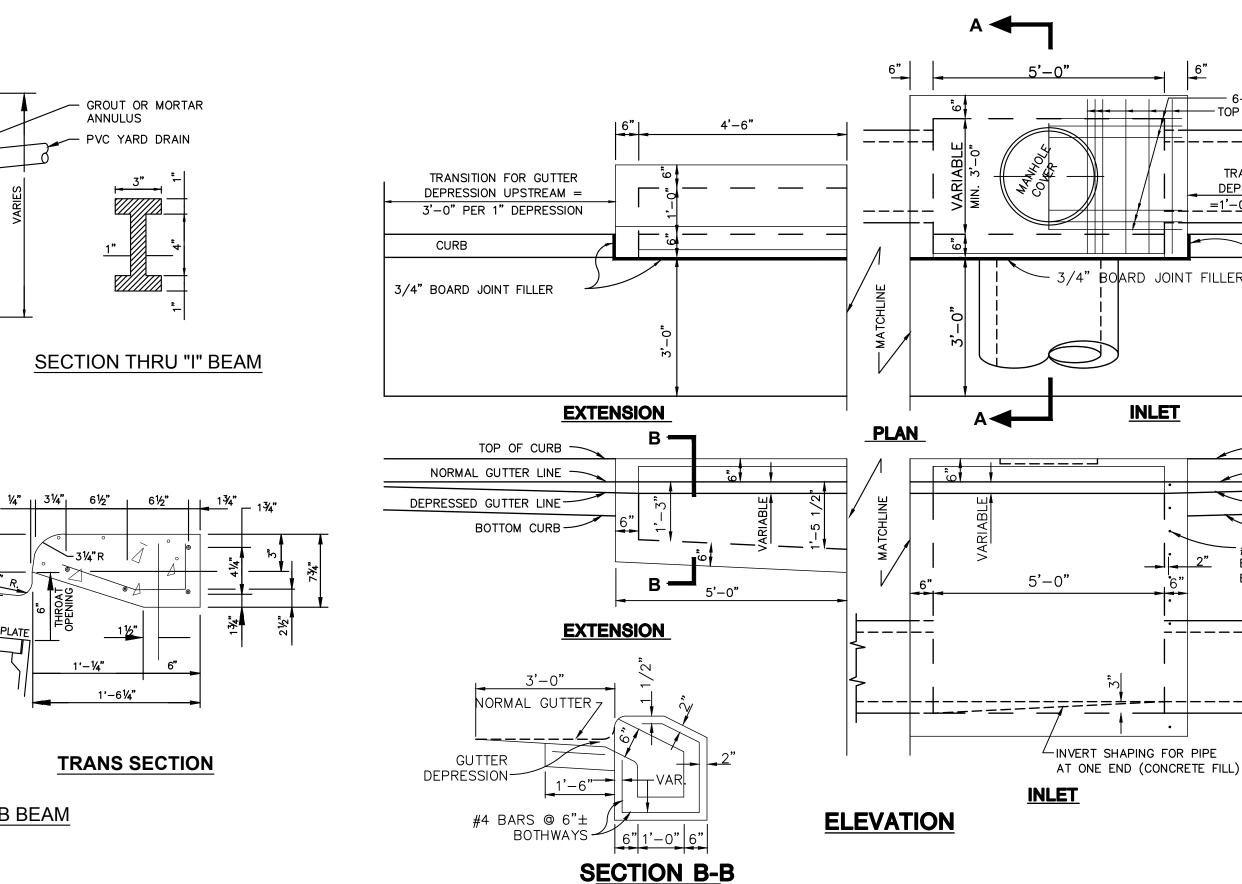






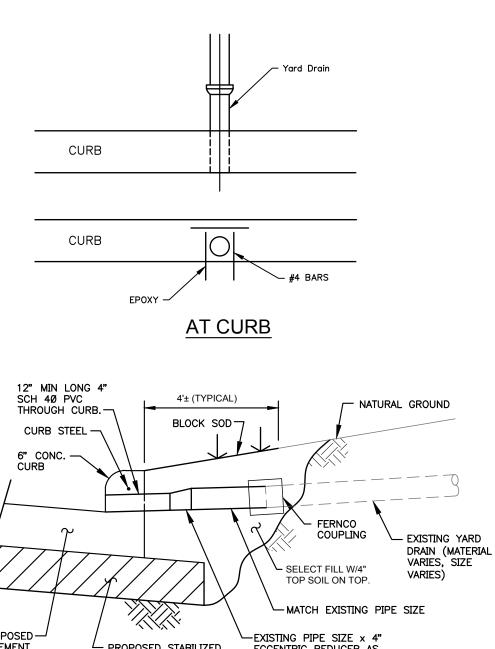


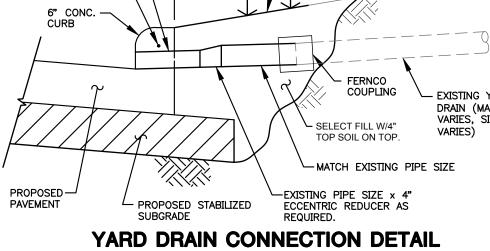




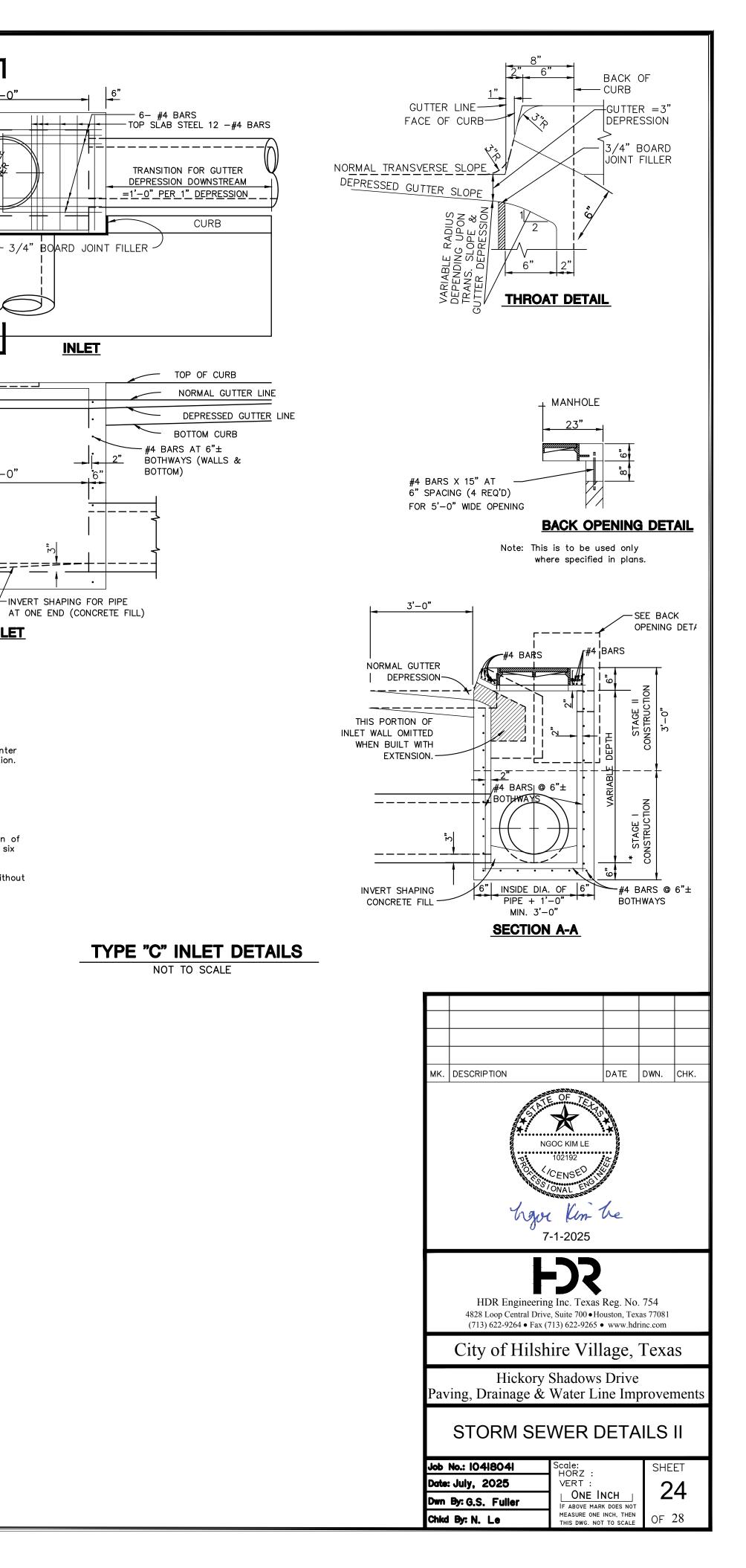
GENERAL NOTES:

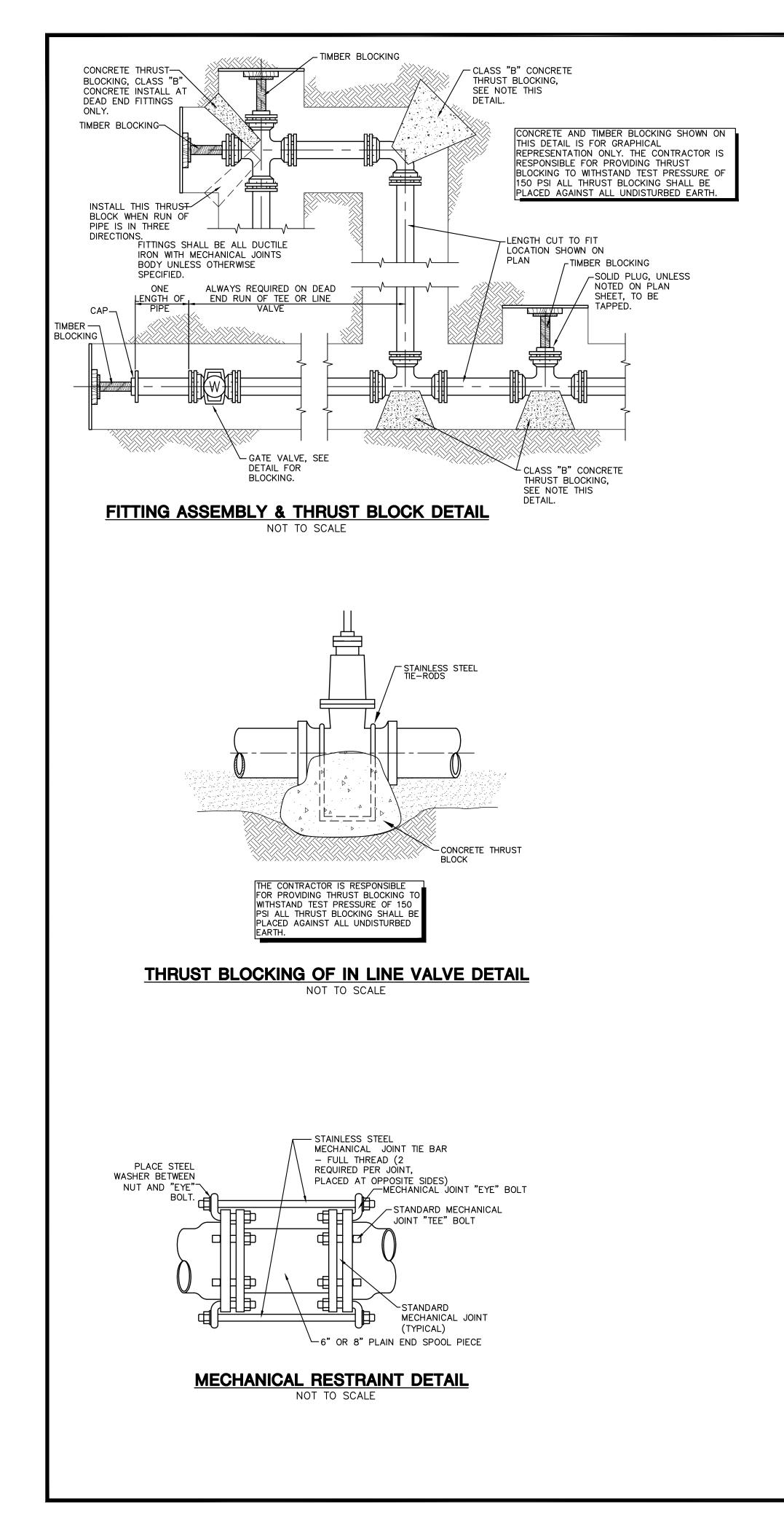
- 1. All concrete shall be Class A. All exposed corners shall be chamfered 3/4". Pipes shall enter inlets as shown elsewhere on plans. Slope top of inlets as directed to match graded section. 2. All materials used in casting manhole covers and ladder rung shall conform to A.S.T.M.
- Specifications. 3. A permissible construction joint may be placed in the inlet wall with the approval of the Engineer.
- 4. Manhole ring and cover shall be  $23 \ 1/2$ " unless otherwise specified in the plans. Connection of pipes to precast units shall be mortared as directed by the Engineer. \* But not less than six inches over highest pipe.
- 5. Control points for horizontal layout of inlets, all types, is the lateral center of the inlet, without regard for extensions, at the back of curb.
- 6. 5' Extension is not included unless called for in plans.

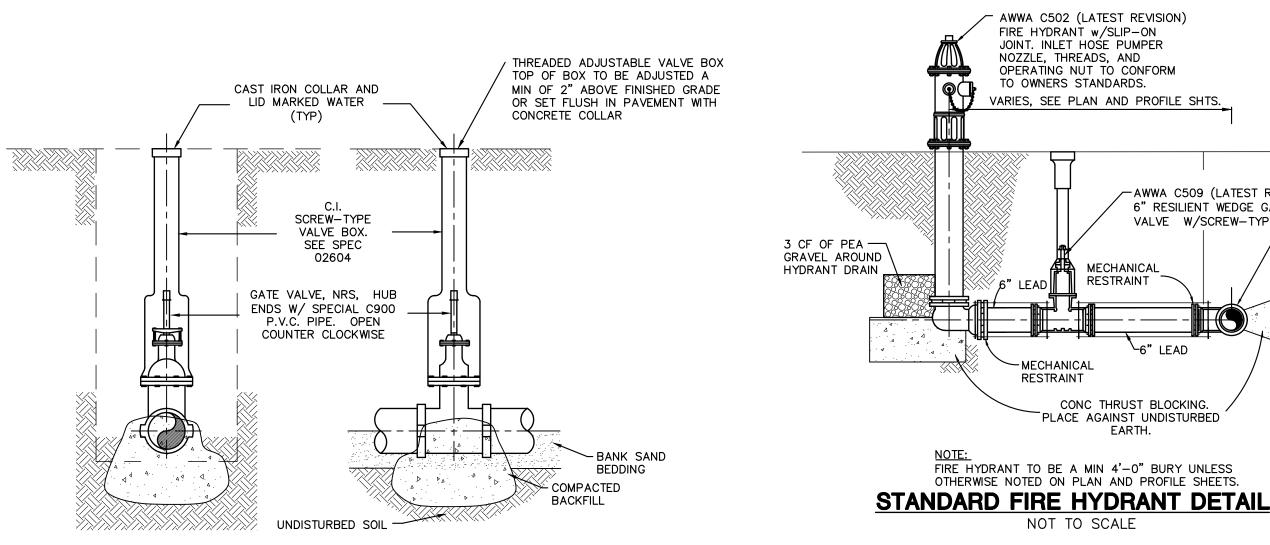




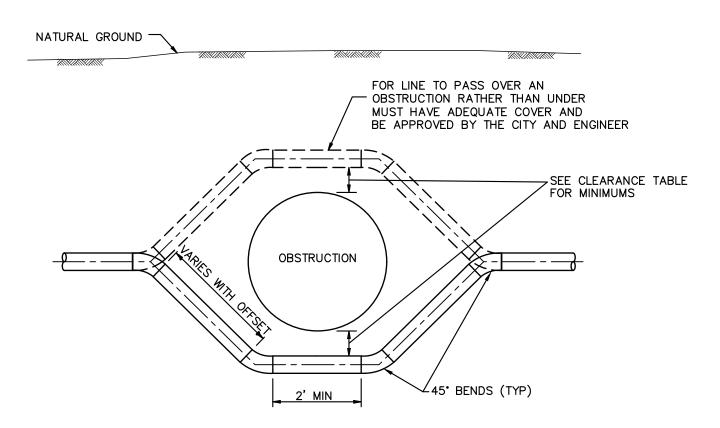
NOT TO SCALE







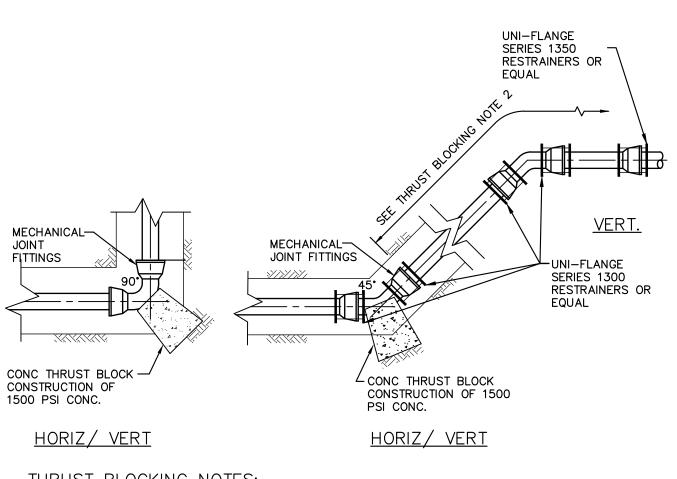
FRONT ELEVATION SIDE ELEVATION GATE VALVE INSTALLATION DETAIL NOT TO SCALE



PROPOSED WAT	ERLINE VERTICAL CL	_EARANCE TABLE
OBSTRUCTION	MINIMUM CLEARANCE	MATERIAL
SANITARY SEWER	SEE TCEQ REGULATIONS (SPEC SECTIONS 02664)	SEE TCEQ REGULATIONS (SPEC SECTIONS 02664)
PRIVATE UTILITY	12"	C-900 DR 18 PVC *
PRIVATE PIPELINE	24"	C-900 DR 18 PVC *
WATERLINE	6"	C-900 DR 18 PVC *
STORM SEWER	6"	C-900 DR 18 PVC *

\* IF DEPTH OF WATERLINE IS GREATER THAN 8' OR COVER IS LESS THAN 3' MATERIAL SHALL BE C-900 DR 14 PVC.

> **CLEARANCE DETAIL** NOT TO SCALE



- THRUST BLOCKING NOTES:
- 1. SIZE OF THRUST BLOCK TO BE ADEQUATE FOR TWO TIMES, TEST PRESSURE; THAT IS 250 PSI NO SEPARATE PAY FOR THRUST BLOCKING.
- 2. RESTRAINED JOINT PIPING SHALL BE USED IN ALL AREAS WHERE HORIZONTAL NEW PIPE HAS LESS THAN 4' COVER. ALL VERTICAL BENDS SHALL HAVE RESTRAINED JOINTS.

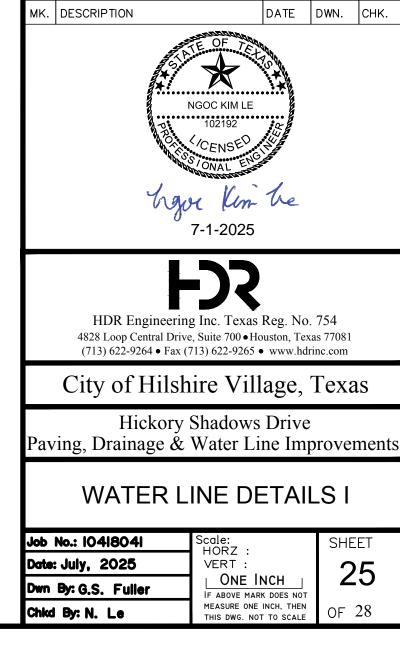
# JOINT RESTRAINT DETAILS

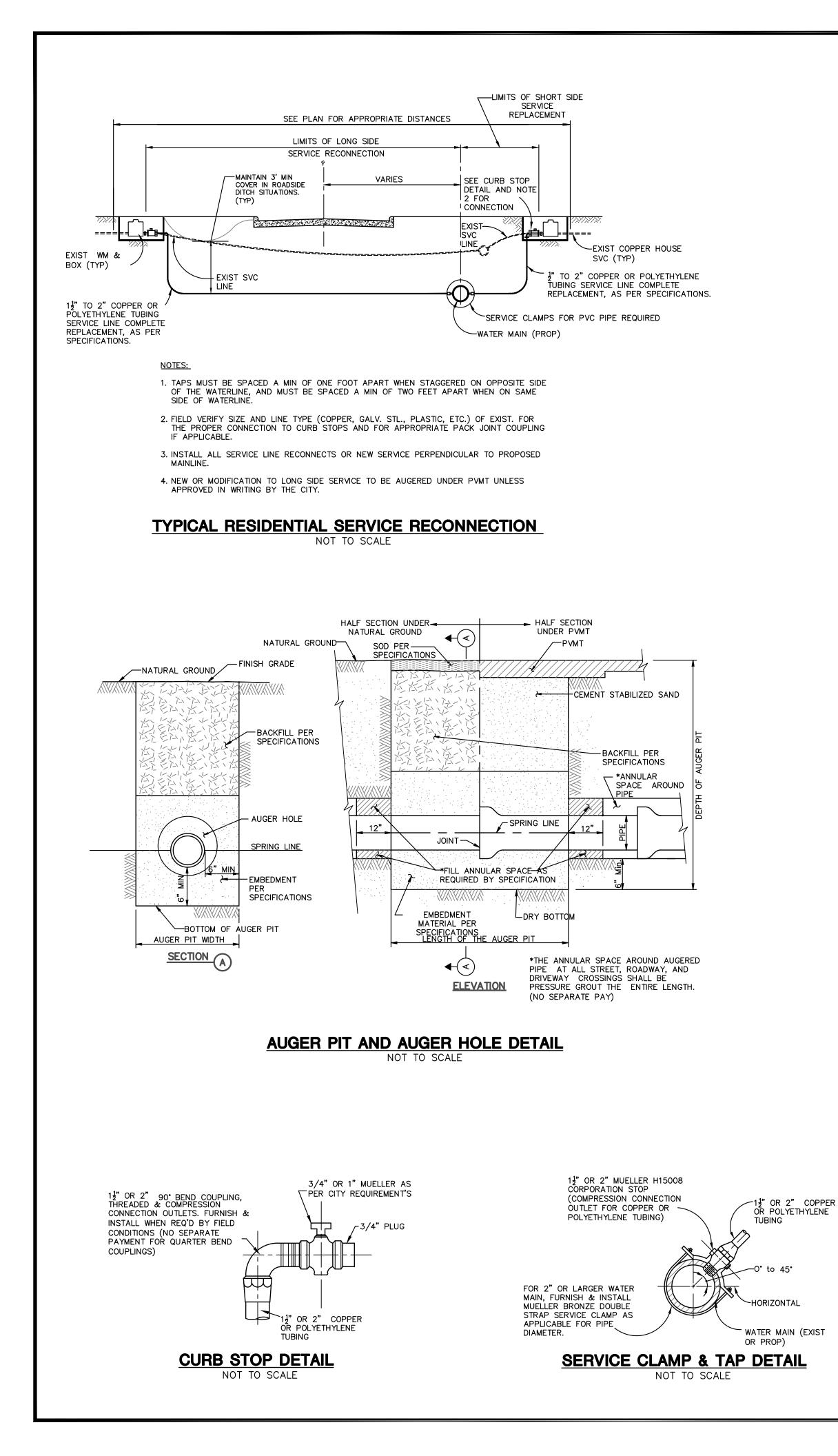
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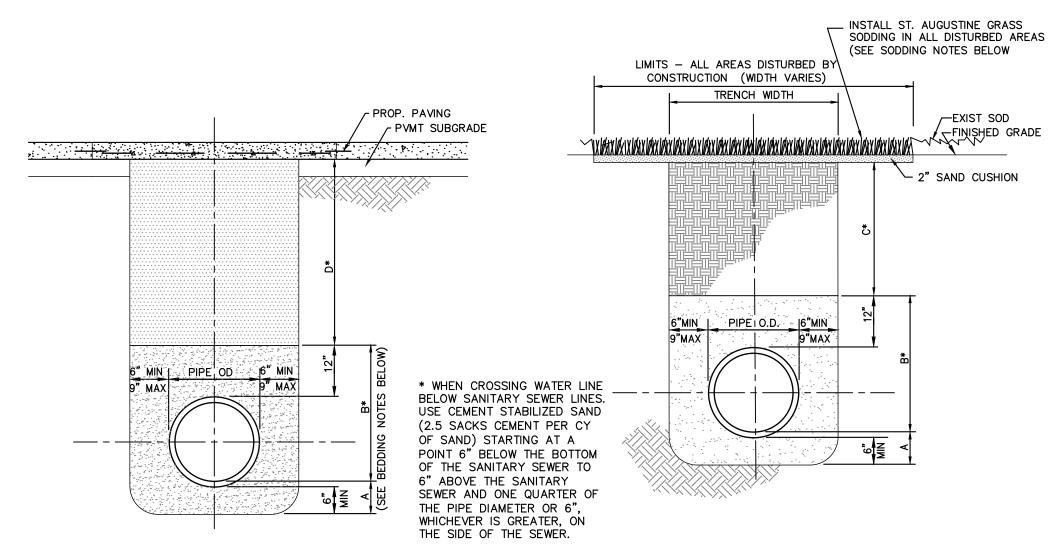
-AWWA C509 (LATEST REVISION) 6" RESILIENT WEDGE GATE VALVE W/SCREW-TYPE BOX - DI TEE, MS

### FIRE HYDRANT NOTES

- 1. ALL FIRE HYDRANTS SHALL CONFORM TO THE CITY'S FIRE DEPARTMENT REQUIREMENTS.
- 2. ALL FIRE HYDRANTS SHALL BE LOCATED 3' BACK OF CURB FOR CURB AND GUTTER STREETS AND 3' INSIDE RIGHT-OF-WAY (2' ABSOLUTE MIN) FOR ROADSIDE DITCH STREETS.
- 3. FIRE HYDRANTS SHOWN AT INTERSECTIONS SHALL BE LOCATED AT THE CURB RETURN FOR CURB AND GUTTER STREETS AND AT THE PROPERTY CORNER FOR ROADSIDE DITCH STREETS UNLESS OTHERWISE SHOWN ON PLANS AND APPROVED BY OWNER.
- 4. ALL FIRE HYDRANTS SHALL HAVE A MINIMUM OF 5'-0" LEAD PIPE. LEAD PIPES SHALL NOT EXCEED 100' IN LENGTH AND SHALL HAVE NO VERTICAL OR HORIZONTAL BENDS.
- 5. EACH FIRE HYDRANT LEAD SHALL HAVE A VALVE, PER SPECIFICATIONS, BEING EITHER A GATE VALVE WITH A TEE CONNECTION TO THE MAIN OR A TAPPING SLEEVE AND VALVE CONNECTION TO THE MAIN.
- 6. VALVES SHALL NOT BE LOCATED AT THE FLOWLINE OF ANY DITCH.
- 7. NEW FIRE HYDRANTS REPLACING THOSE TO BE SALVAGED SHALL BE PLACED 2'± EITHER SIDE OF THE EXISTING.
- 8. FIRE HYDRANTS SHALL BE PLACED AS SHOWN ON PLANS
- 9. FIRE HYDRANTS LOCATED IN AREAS OTHER THAN INTERSECTIONS SHALL BE LOCATED AT SIDE OF LOT LINES, UNLESS SHOWN OTHERWISE ON PLANS AND APPROVED BY OWNER.
- 10. NEW FIRE HYDRANTS SHALL BE LOCATED IN ALL AREAS WHERE EXISTING FIRE HYDRANTS ARE TO BE SALVAGED.
- 11. IN THE EVENT THAT A PROPOSED FIRE HYDRANT CANNOT BE LOCATED IN AREA DESCRIBED AS TYPICAL, ULTIMATE LOCATION OF FIRE HYDRANTS SHALL BE AS DETERMINED BY OWNER.
- 12. ALL FIRE HYDRANTS SHALL BE INSTALLED WITH 5" STORZ ADAPTERS WITH CAP.
- 13. STORZ ADAPTERS SHALL BE AS MANUFACTURED BY HARRINGTON HPHA50-40NH/CAP STORZ PERMANENT HYDRANT ADAPTER WITH CAP (HYDRANT CONVERTER) OR FYRELANE ADPT-5.0ST-BC 5" STORZ BLIND CAP (ALUMINUM).
- 14. NO PART OF THE STORZ ADAPTERS SHOULD BE PAINTED. ALL PARTS ARE DESIGNED TO PROVIDE FUNCTION WITHOUT PAINT. THIS INCLUDES SOME WITH THE CONNECTING CABLE THAT HAS BUILT-IN REFLECTORS FOR BETTER RECOGNITION AT NIGHT.







WATER/SANITARY FORCE MAIN PIPE TRENCH DETAIL FOR PIPES UNDER EXISTING AND PROPOSED PVMT

### BEDDING NOTES:

- A. BANK SAND PLACED BEFORE PIPE IS LAID.
- B. BANK SAND PLACED AFTER PIPE IS LAID, THOROUGHLY RODDED AND MECHANICALLY TAMPED TO MIN 95% OF MAX. DRY DENSITY AS DETERMINED BY ASTMD-6 98
- C. SELECT EARTH BACKFILL, MAX LIQUID LIMIT OF 40, MIN P.I. 7, MAX P.I. 20 CONTAINING NO ROCKS OR OTHER DEBRIS NOR CONTAINING ANY DIRT CLODS EXCEEDING 6" IN ANY DIMENSION. PLACED IN 6" LAYERS, MOISTENED IF NECESSARY AND THOROUGHLY COMPACTED TO A DENSITY EQUIVALENT TO THAT OF SURROUNDING UNDISTURBED SOIL, UNLESS OTHERWISE NOTED.
- D. CEMENT STABILIZED SAND (AS PER SPECIFICATIONS)

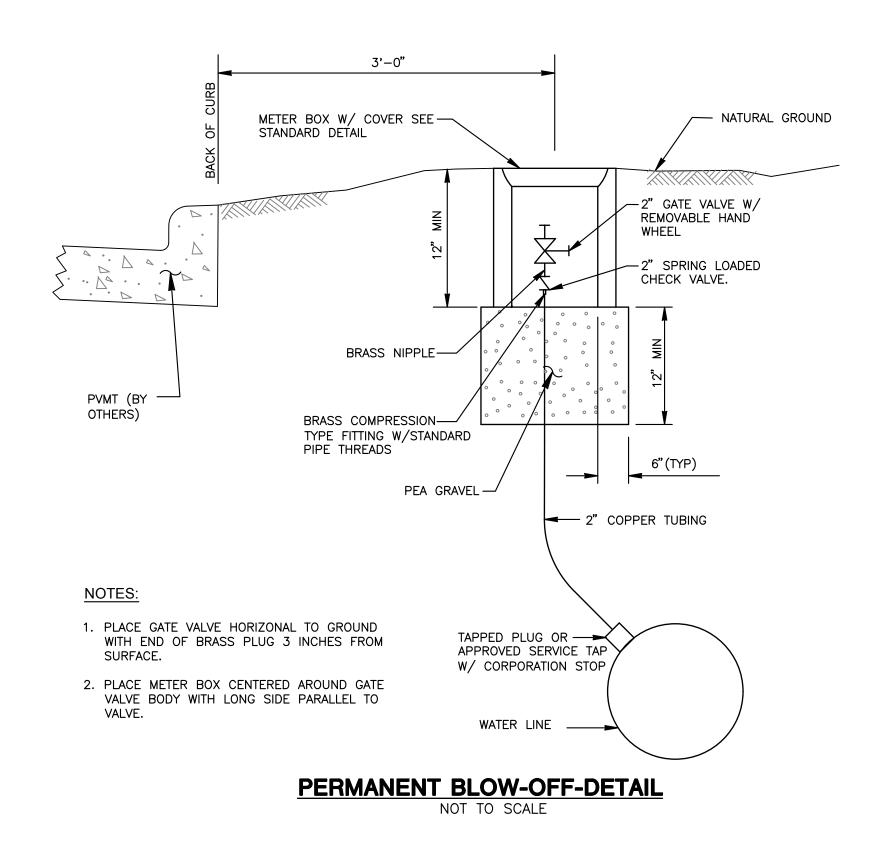
### WATER/SANITARY FORCE MAIN PIPE TRENCH DETAIL - FOR PIPES UNDER NATURAL GROUND

SODDING NOTES:

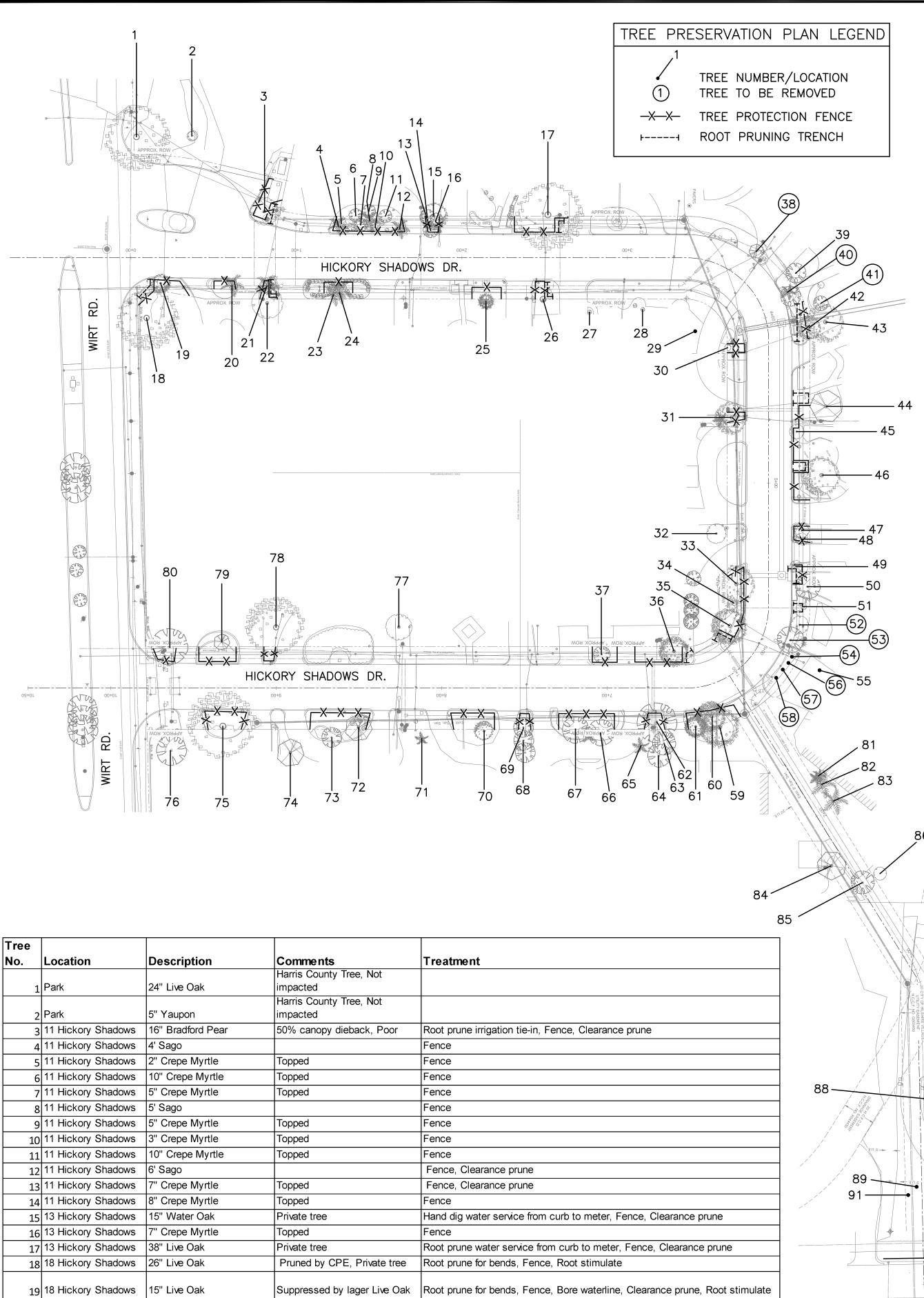
- 1. SODDING SHALL BE INSTALLED IN AREAS DISTURBED BY CONSTRUCTION.
- 2. CONTRACTOR SHALL REPLACE SODDING IN AREAS DAMAGED BY CONSTRUCTION AND THE REPLACEMENT SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
- 3. IF EXIST LANDSCAPING OTHER THAN GRASS IS WITHIN THESE AREAS, THE CONTRACTOR SHALL REBUILD OR REINSTALL THE LANDSCAPING OF THE AREA AFTER CONSTRUCTION IN AN EQUAL OR BETTER CONDITION.



NOT TO SCALE



		STOP CONN	R 2" CORPORATION W/ COMPRESSION ECTION OUTLET FOR ETHYLENE TUBING (SEE				
	ERVICE TAPS TO BE ADE IN THIS ZONE (CEPT FOR PVC FAST	SPEC'			SEE NOTE BELOV		
	AP BLOW-OFF & CHLORINATION TAPS MADE IN VERTICAL	ARE			_		
	POSITION		WIDE BAND SI STRAP (S SECTIONS (26	EE SPEC.			
WATER MAIN	PIPE TAPPIN		HEDULE SERVICE SIZE		_		
TYPE AND DIAMETER 6" AND 8" PVC	3" 4	1"	1 <mark>1</mark> "	2"			
(AWWA C900) <u>NOTES:</u>	WBSS	WBSS		WBSS			
CORPORATION SDR 21 PVC	N STOP PER SPEC'S W PIPE. TAPS AND 2	/CONNEC	to new 8" main, pro tion outlet for cla IN TAPS DE LE	SS 200			
		L ST. AU	JGUSTINE G				
		1////////	TO DRAIN, 1% MIN				
<							
	2" SAN	D CUSHIC	DN EXIST SOD				
	ADD OR REMO ALLOW GRADE TO MEET EXIST	OF NEW	SODDING				
	SEPARATE PAY	r)	SECTION				
NOTES:							
2. SODDI	NG LIMITS AT DITCHES		RBED BY CONSTRUCTIONS THOSE AREAS DISTU				
3. CONTI CONS	TRUCTION AND SHALL		THE AREAS DAMAGED IDERED INCIDENTAL TO				
4. IN TH THESE	E AREAS, THE CONTRA	CTOR SH	THER THAN GRASS IS ALL REBUILD OR REINS	TALL THE			
BETTE	R CONDITION.		CONSTRUCTION IN AN E				
<u> </u>		DT TO S	DDDING DET SCALE	AIL			
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			HDR Engineering 4828 Loop Central Drive (713) 622-9264 • Fax (7 City of Hilsh	CENSED NAL EVENT 1-2025 Com 10 1-2025 Com 10 1-20 Com 10 1-2025 Com 10 C	Reg. No. Iston, Tex www.hdr age,	as 77081 finc.com	lS
		Pav	7- HDR Engineering 4828 Loop Central Drive (713) 622-9264 • Fax (7	CENSED DNAL Com 1-2025 Com 1-202	Reg. No. Iston, Tex www.hdr age, Drive	as 77081 inc.com Texa	
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		Job	HDR Engineering 4828 Loop Central Drive (713) 622-9264 • Fax (7 City of Hilsh Hickory ing, Drainage &	CENSED NAL EVEN 1-2025 Con 1 1-2025 Con 1-2025 Con 1-20	Reg. No. Iston, Tex www.hdr age, Drive ne Imp TAIL	as 77081 inc.com Texa	nents

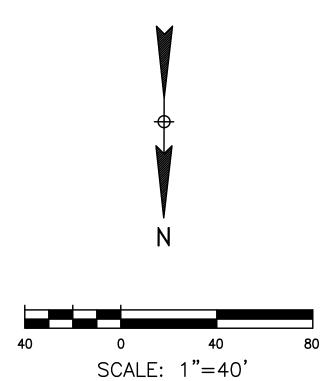


Tree				
No.	Location	Description	Comments	Treatment
	Ded		Harris County Tree, Not	
1	Park	24" Live Oak	impacted	
2	Park	5" Yaupon	Harris County Tree, Not impacted	
	11 Hickory Shadows	16" Bradford Pear	50% canopy dieback, Poor	Root prune irrigation tie-in, Fence, Clearance prune
-	11 Hickory Shadows	4' Sago		Fence
5	11 Hickory Shadows	2" Crepe Myrtle	Topped	Fence
6	11 Hickory Shadows	10" Crepe Myrtle	Topped	Fence
7	11 Hickory Shadows	5" Crepe Myrtle	Topped	Fence
8	11 Hickory Shadows	5' Sago		Fence
9	11 Hickory Shadows	5" Crepe Myrtle	Topped	Fence
10	11 Hickory Shadows	3" Crepe Myrtle	Topped	Fence
11	11 Hickory Shadows	10" Crepe Myrtle	Topped	Fence
12	11 Hickory Shadows	6' Sago		Fence, Clearance prune
13	11 Hickory Shadows	7" Crepe Myrtle	Topped	Fence, Clearance prune
14	11 Hickory Shadows	8" Crepe Myrtle	Topped	Fence
15	13 Hickory Shadows	15" Water Oak	Private tree	Hand dig water service from curb to meter, Fence, Clearance prune
16	13 Hickory Shadows	7" Crepe Myrtle	Topped	Fence
17	13 Hickory Shadows	38" Live Oak	Private tree	Root prune water service from curb to meter, Fence, Clearance prune
18	18 Hickory Shadows	26" Live Oak	Pruned by CPE, Private tree	Root prune for bends, Fence, Root stimulate
19	18 Hickory Shadows	15" Live Oak	Suppressed by lager Live Oak	Root prune for bends, Fence, Bore waterline, Clearance prune, Root stimulate
20	18 Hickory Shadows	7' Sago Palm		Fence, Bore waterline, Clearance prune
21	18 Hickory Shadows	5' Sago		Fence, Bore waterline, Clearance prune
	18 Hickory Shadows	16" Live Oak	Private tree	Root prune for tee and tap, Hand dig service lead tap to meter, Fence, Bore waterline, Clearance prune, Root stimulate

Tree				_
No.	Location	Description	Comments	Treatment
23	20 Hickory Shadows	9' Sago		Bore waterline, Fei
24	20 Hickory Shadows	6' Sago		Bore waterline, Fer
25	22 Hickory Shadows	11" Chinese Pistache	Private tree	Fence, Bore water
26	24 Hickory Shadows	5" Shumard Oak		Root prune for fire
	24 Hickory Shadows	5" Pittosporum	Private tree, Not impacted	
	24 Hickory Shadows	6" Ligustrum	Private tree, Not impacted	
	-		, ,	
	24 Hickory Shadows	19" Live Oak	Private tree, Not impacted	-
	24 Hickory Shadows	3" Red Maple	Private tree	Fence
31	9 Hickory Shadows	22" Live Oak		Hand dig water ser
32	7 Hickory Shadows	16" Hickory	50% dieback, Private, Not impacted	
33	7 Hickory Shadows	20" Live Oak	30% canopy dieback	Hand root prune ba more than 4" back
34	7 Hickory Shadows	2" Cherrylaurel		Fence
				Remove fire hydrar
				box and backfill.
			Interior foliage stripped, 25%	roots greater than
35	7 Hickory Shadows	23" Live Oak	canopy dieback	prune for bends, R
				Hand dig tap&lead
	7 Hickory Shadows	23" Live Oak	20% dieback	stimulate, Clearand
37	7 Hickory Shadows	9" Crepe Myrtle		Bore waterline, Fer
			Base of trunk growing over	
			existing driveway, Remove for	
	17 Hickory Shadows	12" Little Gem Magnolia	drive replacement	Remove tree
39	19 Hickory Shadows	6" Crepe Myrtle	Topped, Private, Not impacted	
40	19 Hickory Shadows	3' Yucca	Remove for bends	Remove tree
41	19 Hickory Shadows	9" Crepe Myrtle	Remove for bends	Remove tree
	21 Hickory Shadows	25" Live Oak	Private tree	Root prune for wate
42			Suppressed by lager Live Oak,	
13	21 Hickory Shadows	17" Live Oak	30% dieback	Root prune for wate
	21 Hickory Shadows	22" Magnolia	30% dieback, Private tree	Root prune tap&lea
	-	-		
	16 Hickory Shadows	9" Fringe Tree		Hand dig tap& lead
	16 Hickory Shadows	27" Live Oak	Private tree	Root prune for tap8
47	16 Hickory Shadows	9" Fringe Tree		Hand dig tap&lead
48	16 Hickory Shadows	8" Little Gem Magnolia		Fence, Bore water
49	14 Hickory Shadows	8" Little Gem Magnolia		Root prune for inlet
50	14 Hickory Shadows	12" Crepe Myrtle	Topped	Bore waterline, Fer
51	14 Hickory Shadows	4" Little Gem Magnolia		Bore waterline, Fer
	14 Hickory Shadows	8" Camphor	Remove for bends	Remove tree
	12 Hickory Shadows	15" Crepe Myrtle	Remove for bends	Remove tree
	12 Hickory Shadows	9" Crepe Myrtle	Remove for bends	Remove tree
	-	37" Live Oak		
	12 Hickory Shadows		Private tree, Not impacted	D
	12 Hickory Shadows	2" Saucer Magnolia	Remove for bends	Remove tree
	12 Hickory Shadows	2" Saucer Magnolia	Remove for bends	Remove tree
	12 Hickory Shadows	2" Saucer Magnolia	Remove for bends	Remove tree
59	10 Hickory Shadows	21" Live Oak		Fence, Clearance
60	10 Hickory Shadows	16" Live Oak		Fence, Clearance
61	10 Hickory Shadows	13" Live Oak		Fence, Clearance
62	10 Hickory Shadows	22" Crepe Myrtle		Hand dig lead from
63	10 Hickory Shadows	13" Crepe Myrtle	Private tree	Fence
	10 Hickory Shadows	13" Crepe Myrtle	Private tree	Fence
	10 Hickory Shadows	4' Sago	Private tree, Not impacted	
	10 Hickory Shadows	12" Crepe Myrtle	Topped, Private tree	Fence
	-			
•••	10 Hickory Shadows	13" Crepe Myrtle	Topped	Fence
	6 Hickory Shadows	12" Crepe Myrtle	Private tree	Fence
69	6 Hickory Shadows	13" Crepe Myrtle		Fence, Clearance
	6 Hickory Shadows	12" Live Oak		Fence, Clearance
71	6 Hickory Shadows	3' Palm	Private tree, Not impacted	
72	4 Hickory Shadows	15" Magnolia	50% dieback	Fence, Clearance
73	4 Hickory Shadows	7" Crepe Myrtle	Topped, Private tree	Fence
	-		50% dieback, Private, Not	
74	4 Hickory Shadows	15" Magnolia	impacted	
75	2 Hickory Shadows	33" Live Oak	Thin canopy, 10% dieback	Fence, Clearance
/3			Topped, Private tree, Not	,
76	2 Hickory Shadows	13" Crepe Myrtle	impacted	
			Topped, Private tree, Not	
77	3 Hickory Shadows	17" Red Maple	impacted	
	3 Hickory Shadows	29" Live Oak	Private tree	Fence, Bore water
	1 Hickory Shadows	11" Magnolia		Fence, Bore water
	-	-		
	1 Hickory Shadows	18" Crepe Myrtle		Hand dig tap&lead
	12 Hickory Shadows	3" Redbud	Private tree, Not impacted	
	12 Hickory Shadows	30' Palm	Private tree, Not impacted	
83	12 Hickory Shadows	18' Palm	Private tree, Not impacted	
84	10 Hickory Shadows	18" Magnolia	Easement tree	Center 30' trenchle
	12 Hickory Shadows	12" Crepe Myrtle	Easement tree	Center 20' trenchle
	12 Hickory Shadows	9" Mexican Sycamore	Private tree	Center 20' trenchle
		-		
87	1027 Ridgeley	25" Cottonwood	Private tree	Center 30' trenchle
	1025 Ridgeley	14" Eastern Red Cedar	Easement tree	Center 20' trenchle
	100		Encomont trop	Center 30' trenchle
89	1027 Ridgeley	17" Pine	Easement tree	
89	1027 Ridgeley 1027 Ridgeley	17" Pine 16" Live Oak	Easement tree	Center 30' trenchle

-90

nt		
ine, Fence		
ine, Fence		
e waterline, Clearance prune for fire hydrant, Fence, Bore waterline	Ň	
ater service from curb to meter, Fence, Clearance prune	40 0 40 SCALE: 1"=40'	
orune back side of proposed inlet during excavation, Do not disturb 4" back of proposed inlet, Fence, Root stimulate, Clearance prune		
e hydrant bonnet, cut stem and barrel 6" below grade. Remove valve ckfill. Do not excavate to remove entire fire hydrant. Do not cut er than 1" in diameter. Hand dig for new fire hydrant, Fence, Root ends, Root stimulate, Clearance prune	NOTE: 1. THIS TREE PROTECTION PLAN WAS DEVELO WITH INFORMATION PROVIDED BY DESIGN ENGINEER IN DRAWINGS DATED MAY 2025. PLAN CONSIDERS ALL FITTINGS, VERTICAL OFFSETS AND AREAS OF NECESSARY EXCA	
p&lead, Fence, Bore waterline, Root prune for bends, Root Clearance prune ine, Fence e	CHANGES MADE TO DESIGN MAY COMPROM THE TREE PROTECTION PLAN. REFER SPECIFICATIONS 01535. CONDITION OF EA TREE IS BASED ON VISUAL EVALUATION AT OF DESIGN. CONDITION AND STRUCTURAL INTEGRITY OF EACH TREE IS NOT GUARANT BY DESIGNER AT ANY POINT IN THE FUTUE	
	ENVIRONMENTAL AND MAINTENANCE INFLUE ON EACH TREE CAN NOT BE DETERMINED	N
e e	DESIGNER.	_
for waterline, Fence	2. IN AREAS WHERE INDIVIDUAL TREES H/ NOT BEEN TIED IN BY SURVEY	A١
for waterline, Fence, Root stimulate	APPROXIMATE LOCATION IS INDICATED TPP. ACCURACY OF REPRESENTED	0
tap&lead, Fence, Bore waterline	LOCATION CAN'T, AND IS NOT GUARAN <sup>-</sup> BY DESIGNER.	TE
p& lead, Fence, Bore waterline, Clearance prune for tap&lead, Fence, Bore waterline, Clearance prune	3. THE CONTRACTOR'S ARBORTIST WILL M	۱A
p&lead, Fence, Bore waterline, Clearance prune	LOCATIONS OF THE NEW TREES AND C APPROVAL BY THE CITY ENGINEER AND	DE
e waterline, Clearance prune for inlet, Fence, Bore waterline, Clearance prune	FORESTER BEFORE PURCHASING AND PLANTING TREES.	-
ine, Fence		
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arance prune		
arance prune arance prune		
ad from curb to meter, Fence, Clearance prune		
arance prune		
arance prune		
	MK. DESCRIPTION DATE DW	
arance prune		
	C.N. Koehl	1
arance prune	Urban Forestry, Inc.	1
	210 Stone Bush Ct.   Katy, Texa	15
	281-391-0022 ckoehl@koehlurbanforestry.com	
	APPROVED: Craig N. Koell 06-24-2025	
e waterline, Clearance prune e waterline, Clearance prune		
p&lead, Fence, Bore waterline, Clearance prune	HDR Engineering Inc. Texas Reg. No. 754	4
	4828 Loop Central Drive, Suite 700 • Houston, Texas 77 (713) 622-9264 • Fax (713) 622-9265 • www.hdrinc.c	708
	City of Hilshire Village, Te	
renchless construction on trunk of tree		1
renchless construction on trunk of tree	Hickory Shadows Drive Paving, Drainage & Water Line Impro	v
renchless construction on trunk of tree		_
renchless construction on trunk of tree	TREE PROTECTION PLAN	
renchless construction on trunk of tree	SHEET 1 OF 2	
renchless construction on trunk of tree	Job No.: 10418041 Scale: HORZ : Date: July, 2025 VERT :	Sł
	Dwn By: G.S. Fuller	4
	masure one inch then	DF



- N WAS DEVELOPED D BY DESIGN ED MAY 2025. THE GS, VERTICAL CESSARY EXCAVATION. MAY COMPROMISE I. REFER NDITION OF EACH EVALUATION AT TIME D STRUCTURAL NOT GUARANTEED IN THE FUTURE, AS NANCE INFLUENCES E DETERMINED BY
- JAL TREES HAVE JRVEY S INDICATED ON 'RESENTED NOT GUARANTEED
- RTIST WILL MARK TREES AND OBTAIN ENGINEER AND CITY HASING AND

мк.		DWN.	Снк.

Katy, Texas 7749

exas Reg. No. 754 0 Houston, Texas 77081 265 • www.hdrinc.com

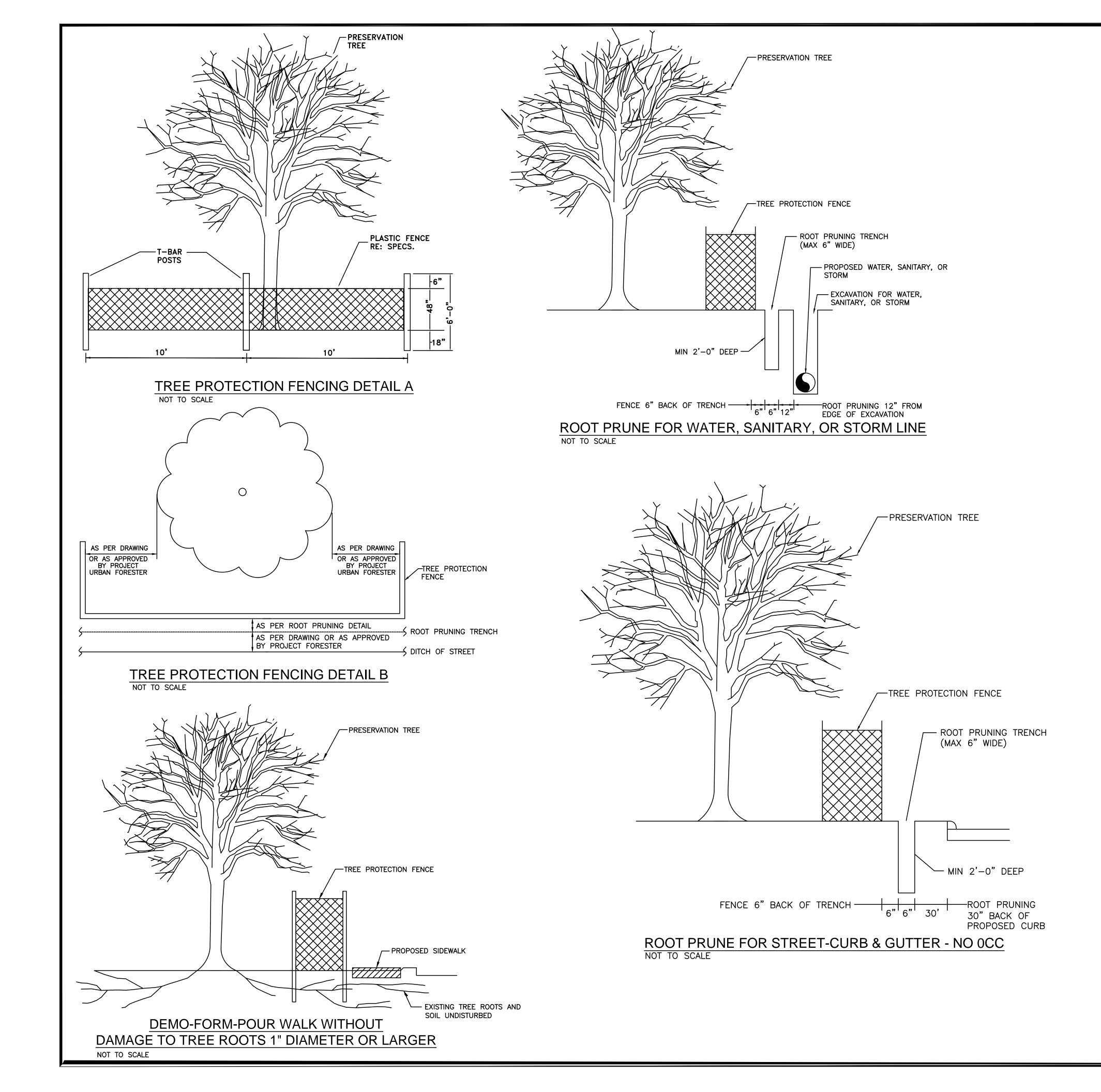
illage, Texas

ws Drive Line Improvements

SHEET

27

OF 28



MK.	DESCRIPTION		DATE	DWN.	снк.		
C	C.N. K	oeh	l				
Urb	an Forestry, Inc.	Lal	11-11		Jeff.		
	210 Stone Bush			exas 7	77493		
	391-0022 ckoehl@koeh		ry.com				
APP	ROVED: Craig N. Koel	ℓ 06-24-20	25				
	HDR Engineerin 4828 Loop Central Drive (713) 622-9264 • Fax (7	e, Suite 700 • Ho	ouston, Texa	as 77081			
	City of Hilsh	ire Vill	age, '	Texa	lS		
Pav	Hickory Shadows Drive Paving, Drainage & Water Line Improvements						
TREE PROTECTION PLAN SHEET 2 OF 2							
Job	No.: 10418041	Scale: HORZ :		SHE	ET		
Date	: July, 2025	VERT :	nch .	2	8		
Dwn	By: G.S. Fuller	L One I If above mar	k does not	~	U		
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