City of Hilshire Village, Texas Hilshire Green Drive Paving, Drainage & Utility Improvements



NOT TO SCALE HARRIS COUNTY KEY MAP 491B

August, 2024 70% Submittal



MAYOR Robert (Bob) Buesinger

Mike Gordy Andy Carey Kristi Cooper Justin Crawford Mark Huber

CITY SECRETARY

Cassie Stephens



SUBMITTED BY:





HDR PROJECT NO. 10408611

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ngoc kim le, pe HDR Engineering, Inc. DATE:

DATE:

1.	CONTRACTOR SHALL NOTIFY THE CITY OF HILSHIRE VILLAGE AT (713) 973–1779 AND THE ENGINEER AT (713) 622–9264 48 HOURS PRIOR TO START OF CONSTRUCTION.		SECTION DESIGNATED FOR FULL LE LENGTH REHABILITATION SHOULD E REHABILITATION.
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.	19.	EXISTING SANITARY SEWER DURING PROPOSED SANITARY SEWER CONS BYPASS PUMPING NECESSARY TO MAINTAIN FLOW SHALL BE INCIDEN
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 SERVICES @ 281–578–4200). NOTIFY CITY 24 HOURS IN ADVANCE.	20.	THE CONTRACTOR SHALL BE AWAF AND LOCATIONS SHOWN ON THE F CONTRACTOR PRIOR TO COMMENCI PROJECT.
	PROPERTY OWNERS SHALL BE NOTIFIED IN WRITING BY THE CONTRACTOR, 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.	21.	THE CONTRACTOR IS MADE AWARE SEWER LINES DESIGNATED FOR RE ARE WITHIN OR IN CLOSE PROXIMI BUSINESS LOTS. THE CONTRACTO PERTINENT ENTITY AND PROVIDE A NOTICE PRIOR TO COMMENCING AN CONTRACTOR SHALL MAINTAIN ACC SERVICE, IF ANY, SHOULD BE MINI MUTUALLY AGREEABLE TIME OR A
	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 THESE FACILITIES. THE ABOVE LAWS CARRY BOTH CRIMINAL AND CIVIL	22.	MAINTAIN SANITARY SEWER SERVIC REHABILITATION OPERATIONS. ALL PROPOSED STORM PIPE SHALI RAMNEK JOINTS.
	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	UT	ILITY & PAVING NOTES:
•	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	1.	THE CONTRACTOR'S SURVEYOR SH AND SHALL VERIFY THE LOCATION TO CONSTRUCTION.
	THE CONTRACTOR TO HAVE STATUS OF THE LINE VERIFIED. CONTRACTOR IS RESPONSIBLE FOR HAVING THE GAS COMPANY RELOCATE THE GAS LINES WITHIN THE RIGHT OF WAY. SEE NOTE FOR CENTERPOINT ENERGY THIS PAGE.	2.	RELOCATE ALL EXISTING PRIVATE U LOCATION AND ELEVATIONS OF EXI APPROXIMATE AND SHALL BE VERI
•	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	-	CONSTRUCTION. RELOCATION OF EXCONTRACTOR'S EXPENSE.
	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.	3. 4.	PROVIDE ONE FOOT (1') MINIMUM (UTILITIES (NEW OR EXISTING). CONTRACTOR SHALL COMPLY WITH
	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	5.	LAW CONCERNING EXCAVATION, TR CONTRACTOR SHALL MAINTAIN ADE CONSTRUCTION AND SHALL RESHA
).	ENGINEER OF ANY DISCREPANCIES. RIGHTS OF WAY INDICATED ARE APPROXIMATE. CONTRACTOR SHALL VERIFY EXACT LIMITS OF RIGHT OF WAY PRIOR TO CONSTRUCTION.	6.	OR BETTER CONDITION, IF DISTURB ADDITIONAL COST TO THE CITY. ALL EXCAVATION AREAS MUST BE
0.	THE CONTRACTOR SHALL MAINTAIN ACCESS TO RESIDENTIAL AND COMMERCIAL PROPERTIES ADJACENT TO WORK AREAS AT ALL TIMES.	0.	MINIMUM OF TWO STRANDS OF PLA CONSTRUCTION FENCE ACCEPTABLE FLASHING YELLOW LIGHTS SHALL E VEHICLE TRAFFIC.
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	7.	
	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 TAPE OR CONSTRUCTION FENCE WHEN CONSTRUCTION IS NOT ACTIVELY PROGRESSING.	8.	UNIT PRICE ITEM FOR REMOVAL AN SHALL INCLUDE THE REPLACEMENT REINFORCED CONCRETE OR ASPHA EXISTING DRIVEWAY IS MADE OF. IN ACCORDANCE WITH THE FOLLOW
2.	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.		Existing Driveway Materia Concrete Concrete with decorative paving Concrete with asphalt over
3.	IT IS IMPERATIVE THAT THE CONSTRUCTION IN THE PROJECT AREA INCONVENIENCE THE RESIDENTS OF THE AREA AS LITTLE AS POSSIBLE.		Asphalt Asphalt with decorative paving r Gravel/Other
	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.	9.	DECORATIVE DRIVEWAYS AND SIDE LIMITS. CONTRACTOR SHALL COORD PROPERTY OWNERS TO PAY THE D REPLACEMENT/UPGRADE OF ANY D USED ON THEIR DRIVEWAYS AND/O
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	10.	IN MATERIALS SHALL BE MADE BY CONTRACTOR, WITH THE CITY'S ON DISPUTE RESOLUTION. DRIVEWAY AND SIDEWALK REPLACE
	EASEMENTS ON RESIDENTIAL YARD AREAS, CARE SHALL BE TAKEN TO MINIMIZE CONSTRUCTION DAMAGE TO YARD AREAS.	11.	LOCATION OF THE EXISTING FACILI
5.	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		SHOWN ON THE PLANS AND IN AC WAY PREPARATION. COST TO REM PROJECT, UNLESS OTHERWISE NOT THESE PARKING AREAS IS NOT INC
	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.	12.	LARGE MASONRY MAILBOXES AND EXIST WITHIN THE PROJECT AREA REMOVE AND RELOCATE ANY MAILI
16.			RIGHT-OF-WAY OUT OF HARMS WA PROPERTY OWNERS AND ENGINEER
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.		RELOCATION OF THESE FACILITIES. RELOCATION OF MAILBOXES IS INC OTHERWISE NOTED IN THE BID FOR

NATED TO BE REHABILITATED ON A LINE L LENGTH REHABILITATION, THE FULL JLD BE PERFORMED PRIOR TO THE MANHOLE

NTAIN SANITARY SEWER FLOW IN THE JRING THE ENTIRE DURATION OF THE CONSTRUCTION OR REHABILITATION. ANY TO FACILITATE CONSTRUCTION AND TO CIDENTAL TO THE PROJECT.

AWARE THAT THE PIPE SIZES, PIPE TYPES, THE PLANS SHALL BE VERIFIED BY THE MENCING CONSTRUCTION AT NO COST TO THE

WARE THAT LOCATIONS OF SOME SANITARY R REHABILITATION OR TELEVISION INSPECTION OXIMITY TO RESIDENTIAL AND COMMERCIAL ACTOR SHALL COORDINATE WITH THE IDE AT LEAST SEVEN (7) DAYS ADVANCE IG ANY WORK IN THE AREA. THE ACCESS AT ALL TIMES. INTERRUPTION OF MINIMAL AND SHALL BE SCHEDULED AT A DR AFTER HOURS. THE CONTRACTOR SHALL ERVICE TO THE RESIDENTS THROUGHOUT THE

SHALL BE TONGUE AND GROOVE RCP WITH

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

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

IUM CLEARANCE BETWEEN GAS LINES AND OTHER

WITH OSHA REGULATIONS AND STATE OF TEXAS TRENCHING AND SHORING.

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

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

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

_ AND REPLACEMENT OF EXISTING DRIVEWAYS MENT OF DRIVEWAYS USING EITHER PLAIN SPHALT, BASED ON THE TYPE OF MATERIAL THE OF. REMOVE AND REPLACE EXISTING DRIVEWAYS LLOWING SCHEDULE:

al	Proposed Driveway Material	
	Concrete	
materials	Concrete	
rlay	Concrete	
	Asphalt	
materials	Asphalt	
	Asphalt	

SIDEWALKS EXIST WITHIN THE PROJECT AREA COORDINATE AND GIVE THE OPPORTUNITY TO THE DIFFERENCE IN COST FOR THE ANY DECORATIVE MATERIALS OR TREATMENTS ND/OR SIDEWALKS. PAYMENT FOR THE UPGRADE BY THE HOMEOWNER DIRECTLY TO THE S ONLY INVOLVEMENT BEING TO FACILITATE

LACEMENT SHALL MATCH THE WIDTH AND ACILITY.

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

AND OTHER TYPES OF DECORATIVE MAILBOXES REA LIMITS. CONTRACTOR SHALL TEMPORARILY MAILBOXES LOCATED WITHIN THE STREET IS WAY. CONTRACTOR SHALL COORDINATE WITH NEER THE TEMPORARY AND PERMANENT TIES. COST FOR TEMPORARY AND PERMANENT INCIDENTAL TO THE PROJECT, UNLESS FORM.

- 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 4' COVER (3' ABSOLUTE MINIMUM).

TRAFFIC CONTROL

- 1. 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.
- DURING CONSTRUCTION PROCESS, CONTRACTOR SHALL ALLOW RESIDENT 3. 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.
- THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS IN A MANNER SUCH THAT 5. 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.
- 6. 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)
- 7. TEMPORARY ACCESS TO DRIVEWAYS, AS REQUIRED DURING ROADWAY CONSTRUCTION SHALL BE INCIDENTAL TO TRAFFIC CONTROL AND REGULATION. (NO SEPARATE PAY)

CAUTION: UNDERGROUND GAS FACILITIES The Contractor shall contact the Utility Coordinating Committee at 1-800-545-6005 or 811 a minimum of 48 hours prior to a lines field located.

- When CenterPoint Energy pipe line markings are not visible, call (713) 207-5463 or (713) 945-8037 (7:00 a.m. to 4:30 p before excavation begins.
- When excavating within eighteen inches (18") of the indicated location of CenterPoint Energy Facilities, all excavation 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 f

CAUTION: OVERHEAD ELECTRICAL LINES

Overhead lines may exist on the property. The location of overhead lines has not been shown on these drawings as the lines them prior to beginning any construction. Texas law, Section 752, Health and Safety Code forbids activities that occur in close specifically:

- Any activity where person or things may come within six (6) feet of live overhead high voltage lines; and
- Operating a crane, derrick, power shovel, drilling rig, pile driver, hoisting equipment, or similar apparatus within 10 fee

Parties responsible for the work, including Contractors are legally responsible for the safety of construction workers under th civil liability. To arrange for lines to be turned off or removed call CenterPoint Energy at (713) 207-2222.

ACTIVITIES ON/OR ACROSS CENTERPOINT ENERGY FEE OR EASEMENT PROPERTY

No approval to use, cross or occupy CenterPoint fee or easement property is given. If you need to use CenterPoint property, Division at (713) 207-6348 or (713) 207-5769.

WARNING: UNDERGROUND ELECTRICAL UTILITIES

The Contractor shall contact the utility coordinating committee at 1-800-545-6005 or 811 a Minimum of have main and service lines field located.

- All information concerning type and location of underground utilities is not guaranteed to be accura are responsible making their own determinations as to type and location of underground utilities as thereto. The contractor shall verify location of underground pipelines, conduits, and structures by co utilities or by excavating in advance of construction.
- The contractor is responsible for determining the exact location of all utilities when and where they • The contractor is also responsible for contacting the utility coordinating committee at (713) 223-450
- 1-800-245-4545, forty-eight (48) hours prior to any construction.
- The location of any CenterPoint energy utilities are shown in approximate way only. The contractor before commencing work. They agree to be fully responsible for any and all damages which might b exactly locate and preserve these underground utilities.
- All proposed facilities shall maintain 12" clear from all existing utilities.

AT&T TEXAS/SWBT FACILITIES -

- The locations of AT&T Texas/SWBT facilities are shown in an approximate way only. The contractor shall determine the exact location before commencing work. He agrees to be fully responsible for any and all damages which might be occasioned by this failure to exactly locate and preserve these underground utilities.
- The contractor shall call 1-800-344-8377 (TEXAS 811) a minimum of 48 hours prior to construction to have underground lines field located.
- When excavating within eighteen inches (18") of the indicated location of AT&T Texas/SWBT facilities, all excavations must be accomplished using non-mechanized excavation procedures. When boring, the contractor shall expose the AT&T Texas/SWBT facilities.
- When AT&T Texas/SWBT facilities are exposed, the contractor will provide support to prevent damage to the conduit ducts or cables. When excavating near telephone poles the contractor shall brace the pole for support.
- The presence or absence of AT&T Texas/SWBT underground conduit facilities of buried cable facilities shown on these plans does not mean that there are no direct buried cables or other cables in conduit in the area.
- Please contact the AT&T Texas Damage Prevention Manager Kevin Ray Jr. at (713) 614-1983 or e-mail him at kr7896@att.com, if cable locate requests are not completed for our AT&T Texas/SWBT facilities.

CENTERPOINT ENERGY GAS FACILITIES	PRIVATE UTILITY LINES SHOWN AT LEAST 48 HOURS BEFORE EXCAVATING IN STREET R.O.W. OR EASEMENTS CALL THE LONE STAR NOTIFICATION 713-223-4567.	
m of 48 hours prior to construction to have main and service	AT&T Texas/SWBT Utility Lines Shown	
137 (7:00 a.m. to 4:30 p.m.) for status of line location request	Date: Approved for AT&T Texas/SWBT Underground Conduit Facilities Only. Signature Valid for One Year.	-
acilities, all excavation must be accomplished using	Date: CenterPoint Energy/Electric Facilities	-
ities to prevent	(Approved Only for Crossing Underground Ductlines, Unless Otherwise Not Valid at Time of Review Only.	oted.)
	Date: CenterPoint Energy/Gas Facilities (Gas Service Lines are not Shown)	-
ve these underground facilities.		
- CENTERPOINT ENERGY ELECTRIC FACILITIES		
e drawings as the lines are clearly visible, but you should locate vities that occur in close proximity to high voltage lines,	MK. DESCRIPTION DATE DWN. CH	۲.
es; and	August, 2024	
oparatus within 10 feet of live overhead high voltage lines.	NGOC KIM LE	
ction workers under this law. This law carries both criminal and 2.	TX. LIC. 102192	
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	NOT FOR BIDDING, OR V87RUCT	
CenterPoint property, please contact our Survey & Right of Way	HDR Engineering Inc. Texas Reg. No. 754	
CenterPoint property, please contact our Survey & Right of Way 811 a Minimum of 48 hours prior to construction to	PDR HDR	
CenterPoint property, please contact our Survey & Right of Way 811 a Minimum of 48 hours prior to construction to anteed to be accurate or all inclusive. The contractors erground utilities as may be necessary to avoid damage	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	
CenterPoint property, please contact our Survey & Right of Way 811 a Minimum of 48 hours prior to construction to anteed to be accurate or all inclusive. The contractors erground utilities as may be necessary to avoid damage and structures by contacting owners of underground en and where they fall in the path of construction.	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	
CenterPoint property, please contact our Survey & Right of Way 811 a Minimum of 48 hours prior to construction to anteed to be accurate or all inclusive. The contractors arground utilities as may be necessary to avoid damage and structures by contacting owners of underground en and where they fall in the path of construction. ee at (713) 223-4567 and Texas one call at nly. The contractor shall determine the exact location	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 Hilshire Green Drive	
CenterPoint property, please contact our Survey & Right of Way 811 a Minimum of 48 hours prior to construction to anteed to be accurate or all inclusive. The contractors erground utilities as may be necessary to avoid damage and structures by contacting owners of underground en and where they fall in the path of construction. ee at (713) 223-4567 and Texas one call at nly. The contractor shall determine the exact location ages which might be occasioned by this failure to	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 Hilshire Green Drive Paving, Drainage & Utility Improvements General Construction Notes	
CenterPoint property, please contact our Survey & Right of Way 811 a Minimum of 48 hours prior to construction to anteed to be accurate or all inclusive. The contractors arground utilities as may be necessary to avoid damage and structures by contacting owners of underground en and where they fall in the path of construction. ee at (713) 223-4567 and Texas one call at nly. The contractor shall determine the exact location	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 Hilshire Green Drive Paving, Drainage & Utility Improvements General Construction Notes	5

LEGEND :			
SYMBOL		SYMBOL	
Ô"IR	DESCRIPTION IRON PIPE OR IRON ROD	EXISTING PLAN VIEW	DE HOUSTON
O	MONUMENTS	HL & P CO MH	CONDUIT
5+00	CENTERLINE OF RIGHT-OF-WAY SURVEY BASELINE	•	POWER P LINES
	EXISTING RIGHT-OF-WAY LINE	$\phi \longrightarrow$	POWER P
! 25'	PROPERTY LINE DIMENSION LINE	\bigcirc	TRAFFIC
←	CURB LINE	0	MARKER
	EDGE OF ASPHALT PAVEMENT		BUSINESS
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	SHRUBS	•	
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BRICK BLDG.	BUILDING		
		SYMBOL	
	SLAB	EXISTING PROFILE VIEV	<u>N</u> <u>D</u>
o □	POST, WOOD OR METAL		NORTH O
95	INDEX CONTOUR		SOUTH O
	WATER LINE (20" & SMALLER)		NORTH O
<u>د </u>	WATER LINE (24" & LARGER)		SOUTH O
	WATER VALVE (GATE OR BUTTERFLY)	RELIANT ENERGY MTD	CENTER L
	TAPPING SLEEVE AND VALVE	8" HP CENTERPOINT ENERGY	RELIANT GAS LINE
FH	FIRE HYDRANT		SOUTHWE
•	WATER METER	EXIST 20" WATER LINE	CONDUIT WATER LI
	GAS LINE	EXIST 24" WATER LINE	
9 <u>G</u> M	GAS METER	۷۵	WATER LI
	SANITARY SEWER LINE (24" & SMALLER)	EXIST 24" SAN SWR	SANITARY
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ØMH	SANITARY SEWER LINE, MANHOLE & CLEANOUT	EXIST 24" STM SWR	STORM S
	STORM SEWER LINE (24" & SMALLER)	EXIST 30" STM SWR	STORM S
63	STORM SEWER LINE (30" & LARGER)		
MH	STORM SEWER LINE AND MANHOLE	e	RELIANT
	STORM SEWER JUNCTION BOX		
"B" INLET "B-B" INLET	CURB INLET		SOUTHWE MANHOLE
	GRATE INLET		SANITAR
	CONCRETE DRAIN		& CLEAN
	CULVERT	28	STORM S
SWBT MH	SOUTHWESTERN BELL MANHOLE & OVERHEAD & BURIED CABLE		
Т	TELEPHONE BOX		
*•	STREET LIGHT (CANTILEVERED ON WOODEN POLE		
ו	STREET LIGHT (CANTILEVERED ON ORNAMENTAL POLE		

			ABBREVIATI
	SYMBOL		&
DESCRIPTION ON LIGHTING & POWER CO T & MANHOLE	PROPOSED PLAN VIEW	DESCRIPTION BORING LOCATION	@ AB AC AVE
POLE W/OVERHEAD	PI#	POINT OF INTERSECTION (PI)	B B 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 CMP
	<u> </u>	WATER LINE (24" & LARGER)	COH CONC
SS SIGN		TAPPING SLEEVE & VALVE	CONSTR CPE
DST	<i>^</i>	FIRE HYDRANT	CSG CTMS
LINE (CHAIN LINK OR OTHER)		SANITARY SEWER LINE (24" & SMALLER)	DI
LINE (BARBED WIRE)	<u>س</u>	SANITARY SEWER LINE (30" & LARGER)	DIA DR DWG
	——0——	SANITARY SEWER MANHOLE	
DESCRIPTION		STORM SEWER LINE (24" & SMALLER)	EL OR ELEV EOP ESP E/R ESMT
DESCRIPTION	8	STORM SEWER LINE (30" & LARGER)	ESMT EXIST
OR EAST RIGHT-OF-WAY	 "В-В" INLET	STORM SEWER MANHOLE	FC F-F
OR WEST RIGHT-OF-WAY		CURB INLET	FH ?
OR EAST DITCH OR CURB		FACE OF CURB	FT GV & B
OR WEST DITCH OR CURB	•	PROPOSED SIGN	HL & P
LINE OF PAVEMENT	5' CONC SIDEWALK	CONCRETE WALK	HMAC HPS HWY
ENERGY CONDUIT			ID
IE	<u>SYMBOL</u> PROPOSED PROFILE VIEW	DESCRIPTION	IE IP
VESTERN BELL COMMUNICATION	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	WATER LINE (20" & SMALLER)	IR JT
LINE (20" & SMALLER)		WATER LINE (24" & LARGER)	JUNC
LINE (24" & LARGER)		SANITARY SEWER LINE (24" & SMALLER)	LF LN LPST
		SANITARY SEWER LINE (30" & LARGER)	LT
RY SEWER LINE (24" & SMALLER)	<u>ه</u>	STORM SEWER LINE (24" & SMALLER)	MAX METRO
RY SEWER LINE (30" & LARGER)		STORM SEWER LINE (30" & LARGER)	MH MIN MON
SEWER LINE (24" & SMALLER)		PVC SLEEVE	MRC
SEWER LINE (30" & LARGER)		SANITARY SEWER MANHOLE	N NFV NO NTS
ENERGY MANHOLE		STORM SEWER MANHOLE	OCEL OFS OLE OH
VESTERN BELL TELEPHONE _E		STORM SEWER INLET	PC PCC PCCP
	2	STORM SEWER INLET	PERM PI PPCA
RY SEWER MANHOLE NOUT	TOC @ +0.30% TOC @ -0.30%	TOP OF CURB OR CENTERLINE OF OPEN DITCH PAVING	PROP PT PT PVC
SEWER MANHOLE			PVI PVMT PVT
			R R
			R RCB RCP REINF REMOV ROW RD

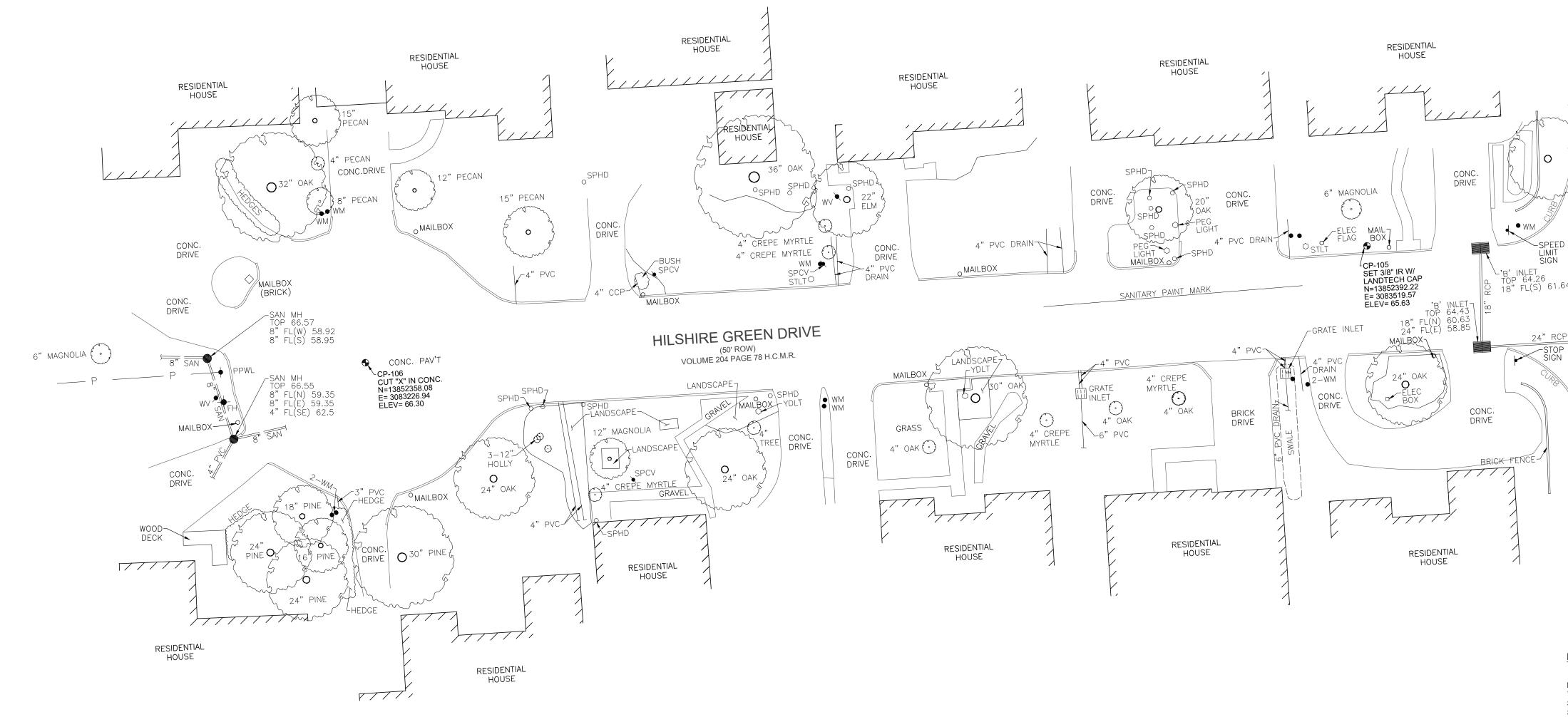
TIONS :

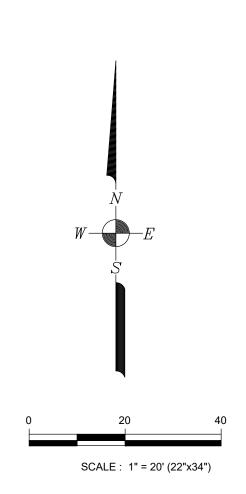
RJ RT AND AT RW ALL BELL ASBESTOS CEMENT S SAN AVENUE SPL SPRINK BASELINE BACK TO BACK ST STA BEHIND CURB BUSINESS SIGN STD CAST IRON STL CENTERLINE STM CLEAR SWR SWBT CORRUGATED METAL PIPE CITY OF HOUSTON CONCRETE CONSTRUCTION Т TBM CENTER POINT ENERGY TOC OR TC CASING COMPUTERIZED TRANSPORTATION TEMP 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/ WL END OF CURB RETURN EASEMENT EXISTING WLE 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

RRPM

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. REVIEW August, 2024 NGOC KIM LE TX. LIC. 102192 NOT FOR BIDDING, OR OR ONSTRUCT **H**R 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 Hilshire Green Drive Paving, Drainage & Utility Improvements Legend & Abbreviations ob No.: 10408611 SHEET Scale: HORZ : VERT : Date: August, 2024 3 ONE INCH wn By:G.S. Fuller MEASURE ONE INCH, THEN of 22 hkd By: E. Him

THIS DWG. NOT TO SCALE







BENCHMARK

CITY OF HOUSTON MONUMENT 5159-0303 BRASS DISK ON ESPLANADE AT THE INTERSECTION OF WIRT ROAD AND JANAK DRIVE ELEVATION= 68.66 FT. NAVD 88 (2001 ADJUSTMENT)

LEGENDS / ABBREVIATIONS

ら24" PEAR

WIRT ROAD

I	FΗ		
1	WV		
:	SPO	CV	
:	SPF	HD	
1	WM	I	
:	SAN	N N	ЛH
I	PPV	٧L	
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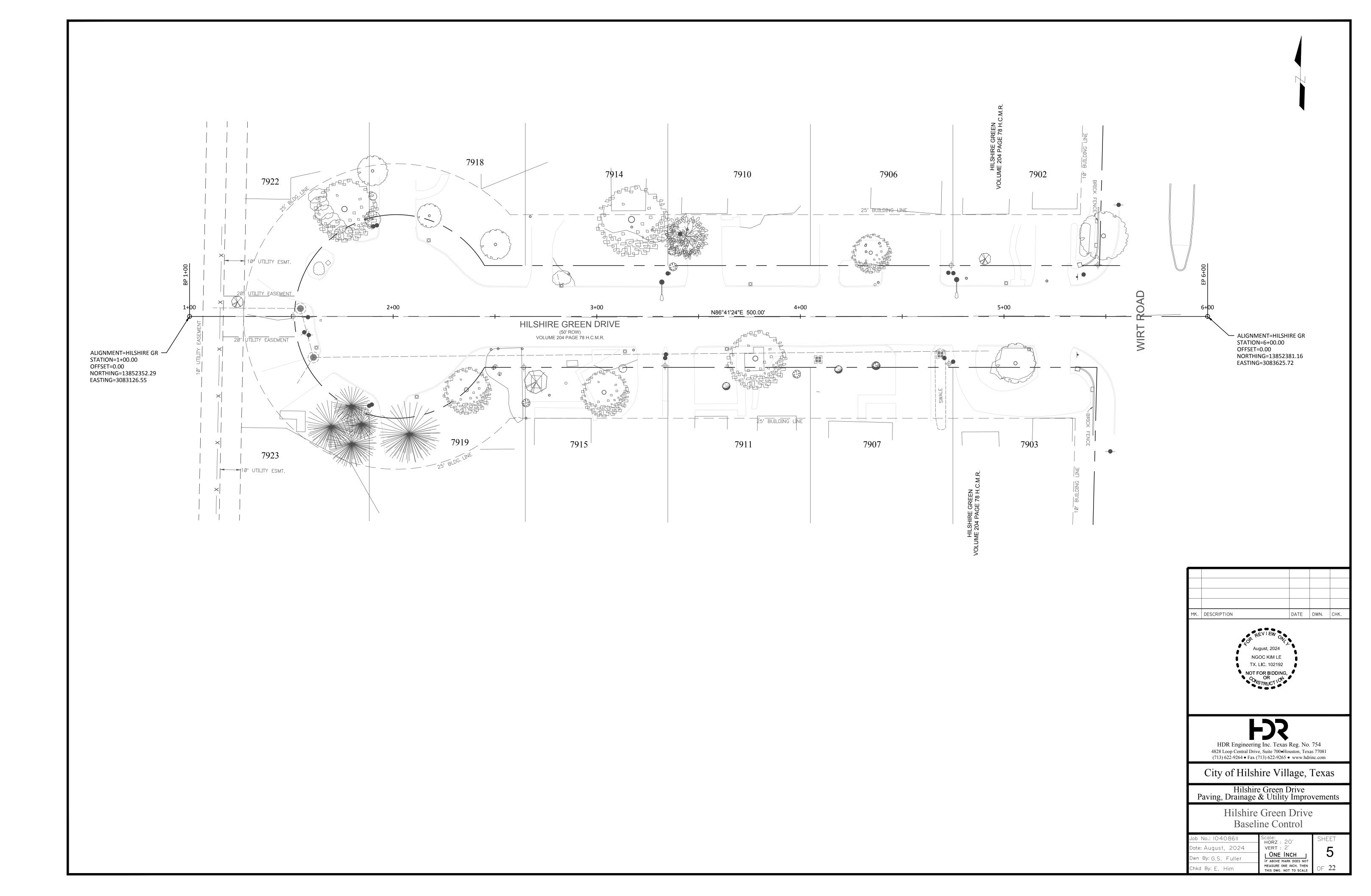
FIRE HYDRANT WATER VALVE SPRINKLE CONTROL VALVE SPRINKLE HEAD WATER METER SANITARY MANHOLE POWER POLE WITH LIGHT POWER POLE YARD LIGHT STREET LIGHT FLOWER BED

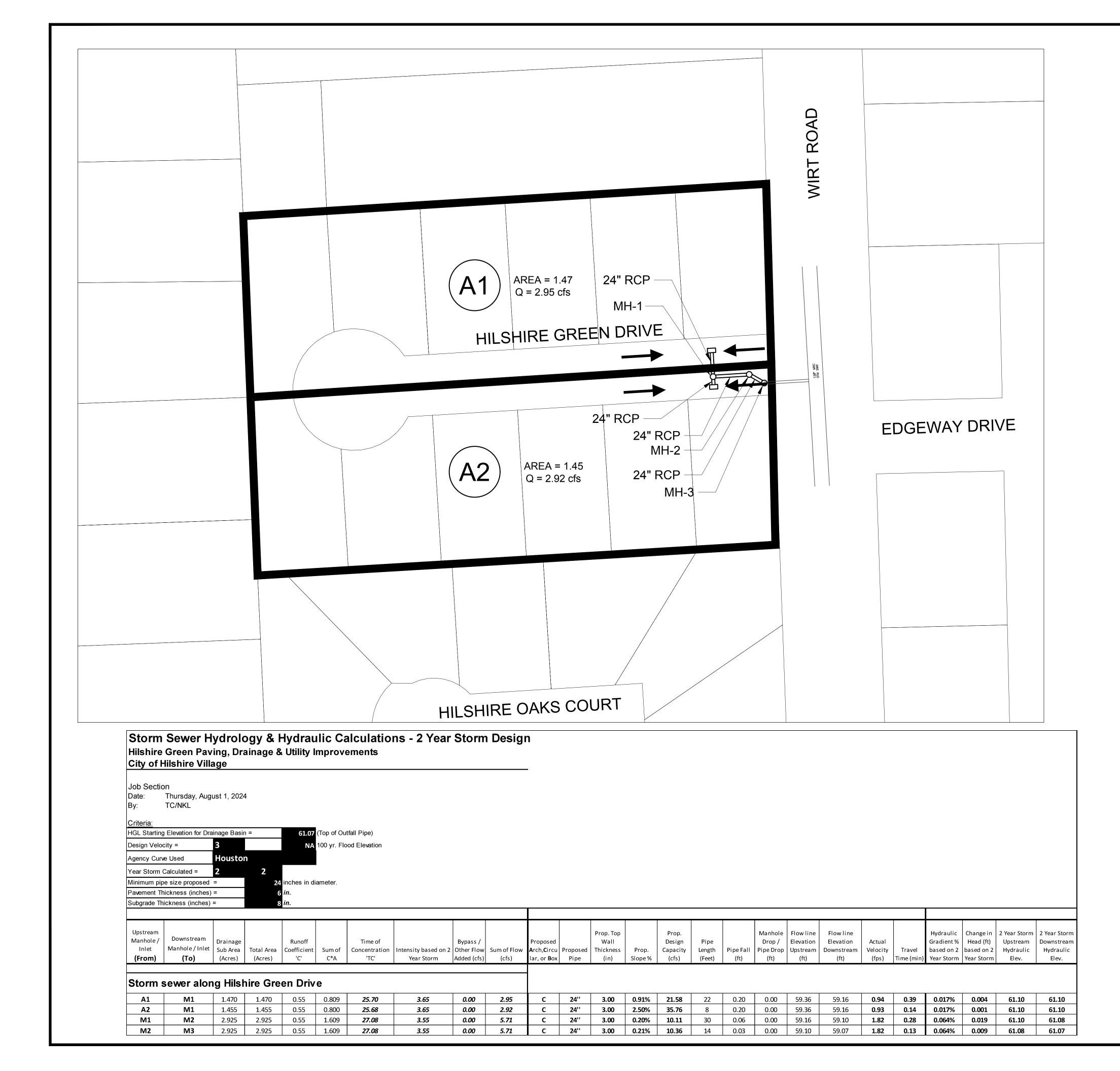


1315 W SAM HOUSTON PARKWAY N, Suite 100, Houston, Texas 77008 T: 713-861-7068 F: 713-861-4131

TBPELS Registration No. 10019100

DATE:	8/8/24
SCALE:	1" = 20'
DRAWING No.:	
JOB No.:	2420005
SHEET No. : 4	OF 22



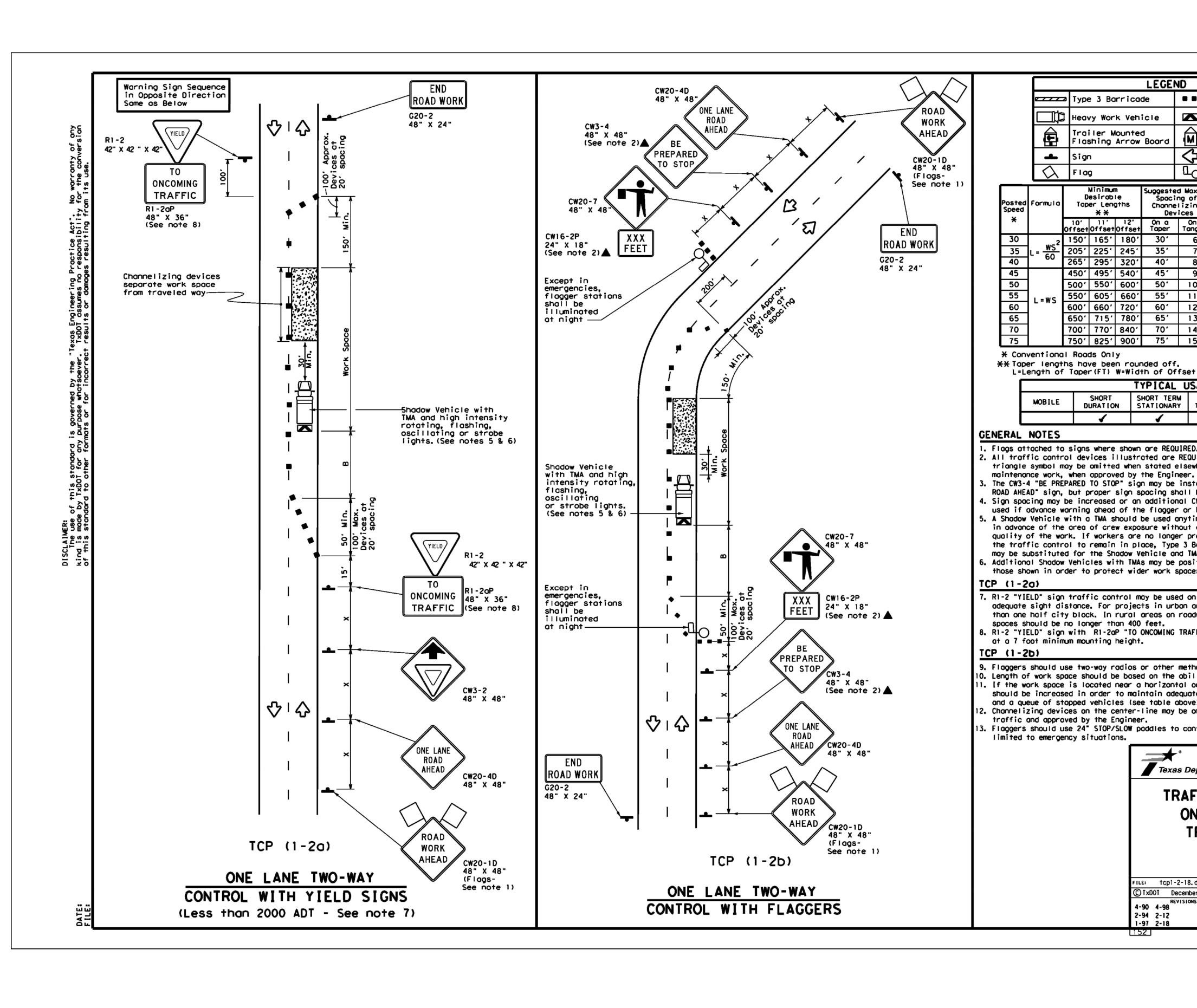




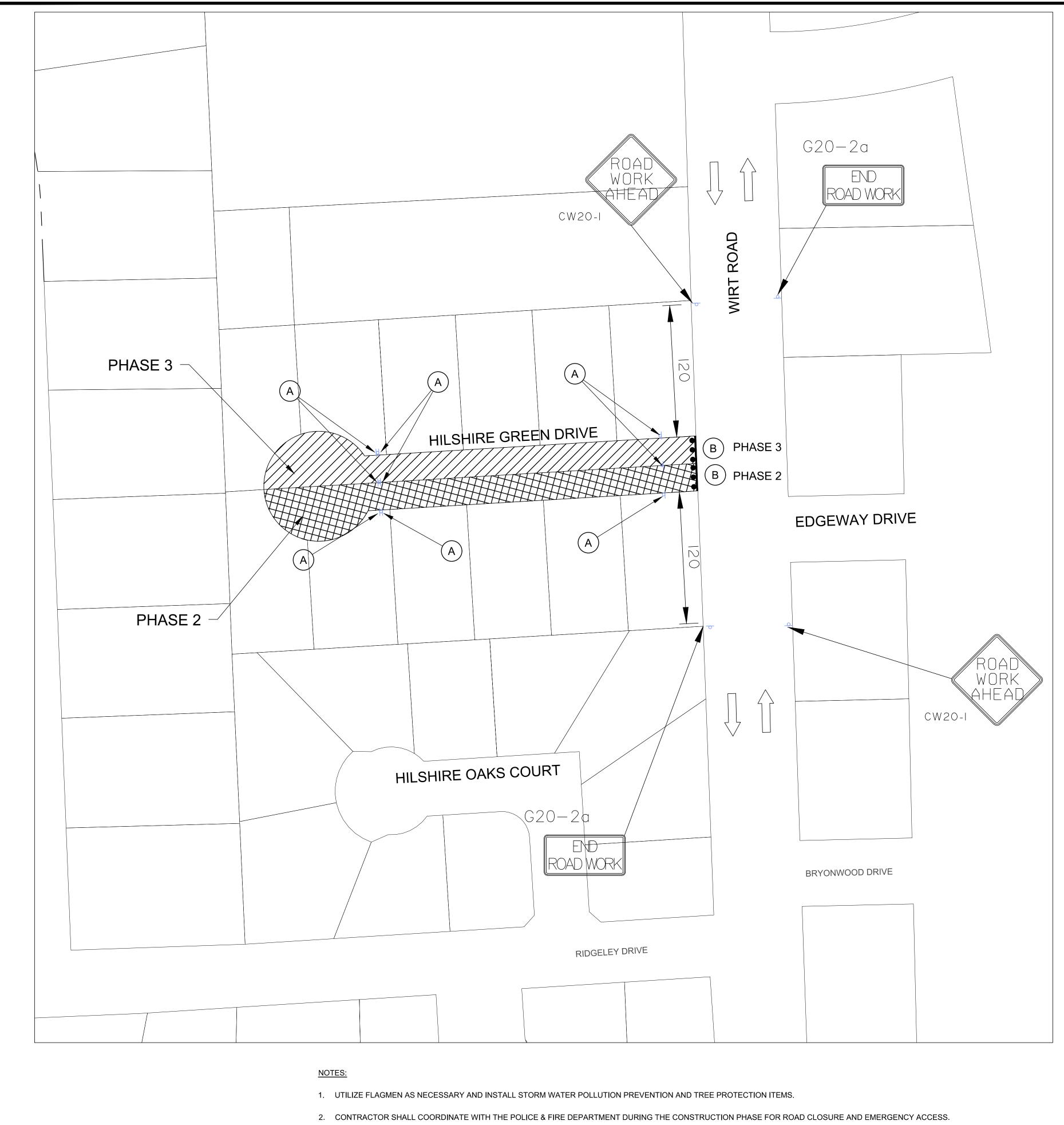
GENERAL TRAFFIC CONTROL NOTES:

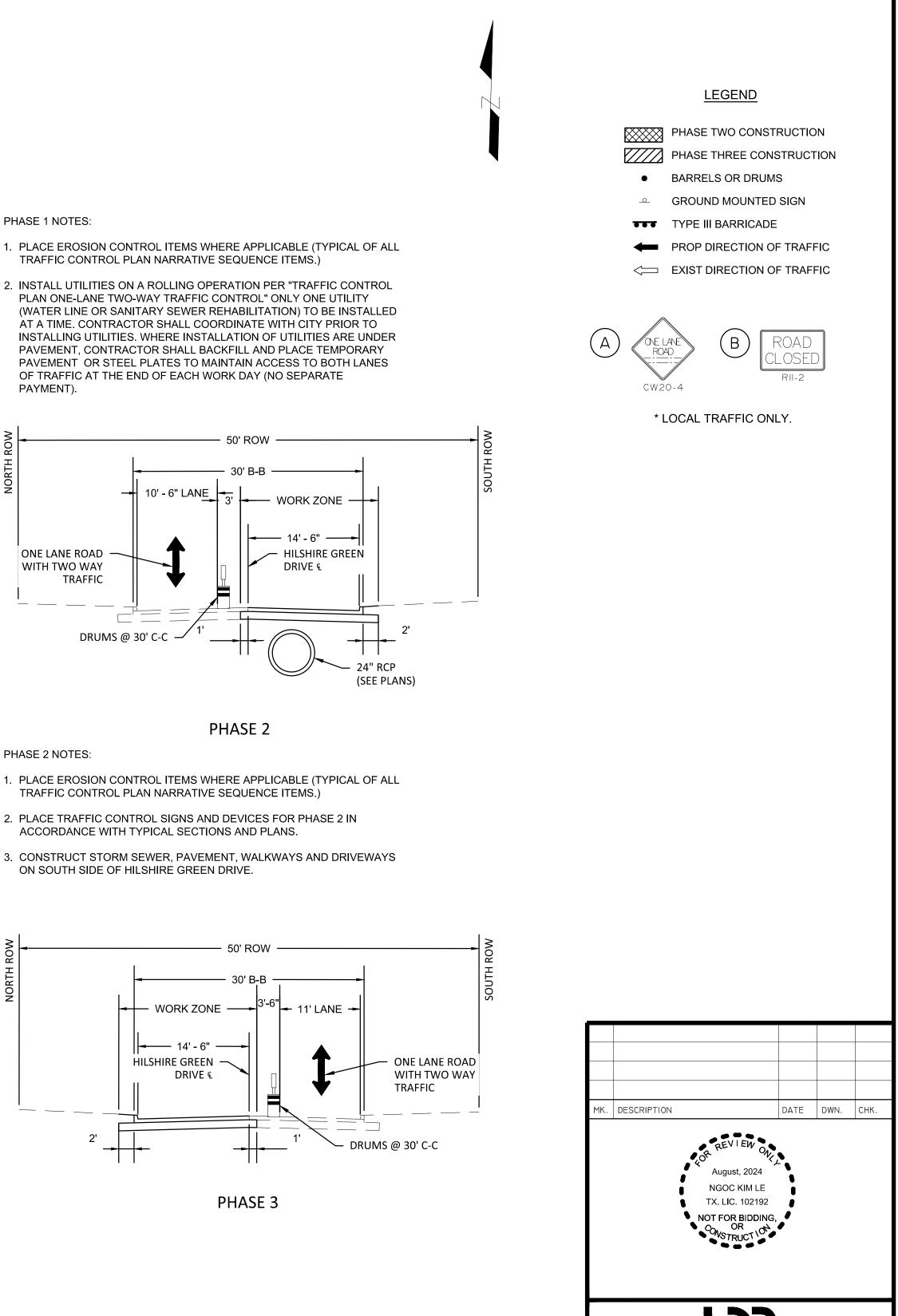
- 1. IF THE CONTRACTOR CHOOSES TO USE A DIFFERENT METHOD OF "TRAFFIC CONTROL PLAN" DURING CONSTRUCTION THAN WHAT IS OUTLINED IN CONTRACT DRAWINGS HE/SHE SHALL BE RESPONSIBLE TO PREPARE AND SUBMIT AN ALTERNATIVE SET OF PLANS TO PLAN REVIEW FOR APPROVAL THREE WEEKS PRIOR TO BEGINNING CONSTRUCTION. THESE 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 HILSHIRE GREEN 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.

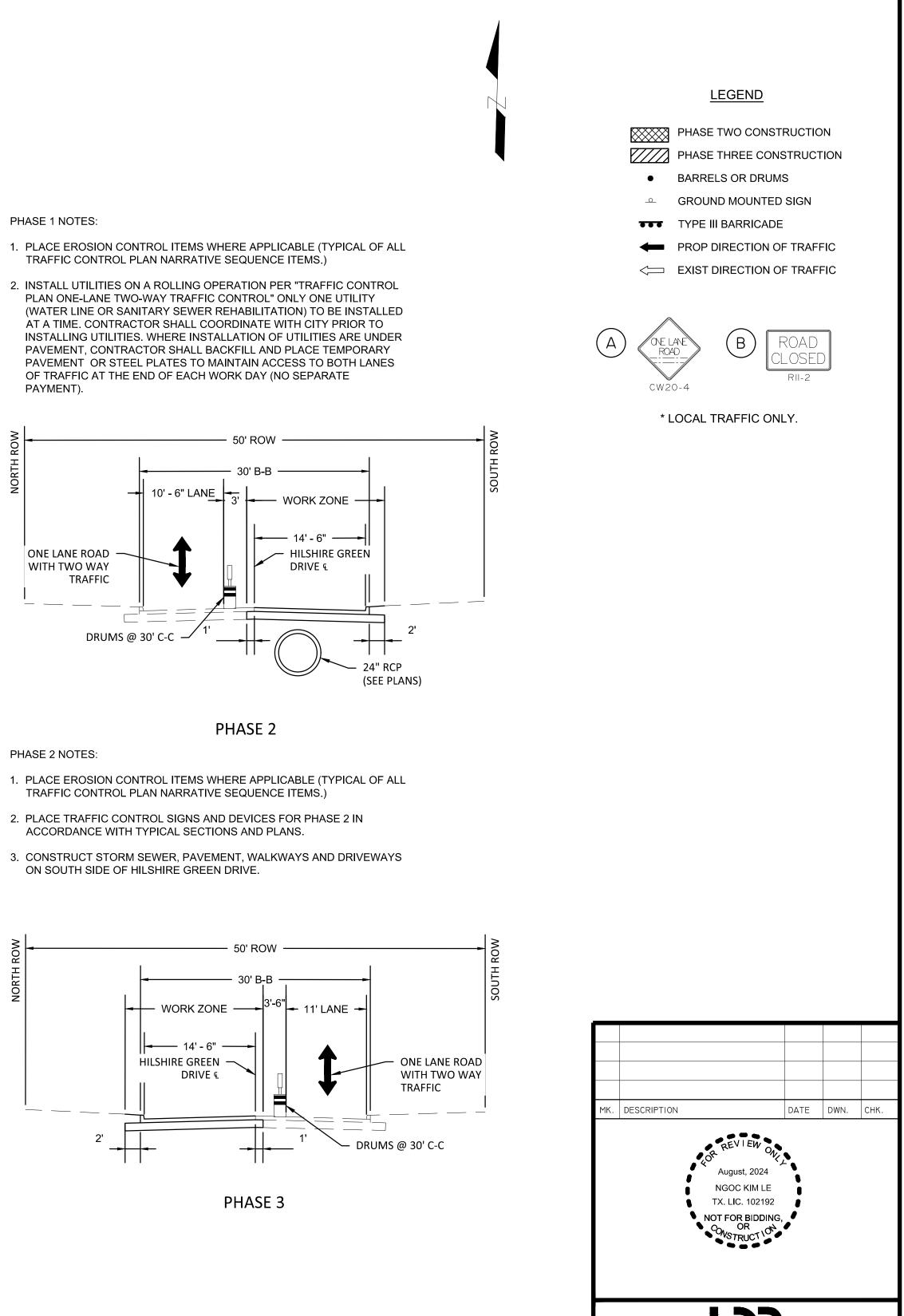




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80'	240′	155′	305'							
90'	320'	1951	360'							
100'	400'	240'	425'							
<u>110'</u> 120'	500' 600'	295' 350'	495' 570'							
130'	700'	410'	645'							
140'	8001	475′	730'							
150'	900'	540'	820'							
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ONS	DIST	COUNTY	SHEET N	NO.	· · · · ·	(713) 622-9264 • F	Fax (713) 622-9265	• www.hd	lrinc.com	
					Ci	ity of Hil	shire Vill	lage,	Texa	as
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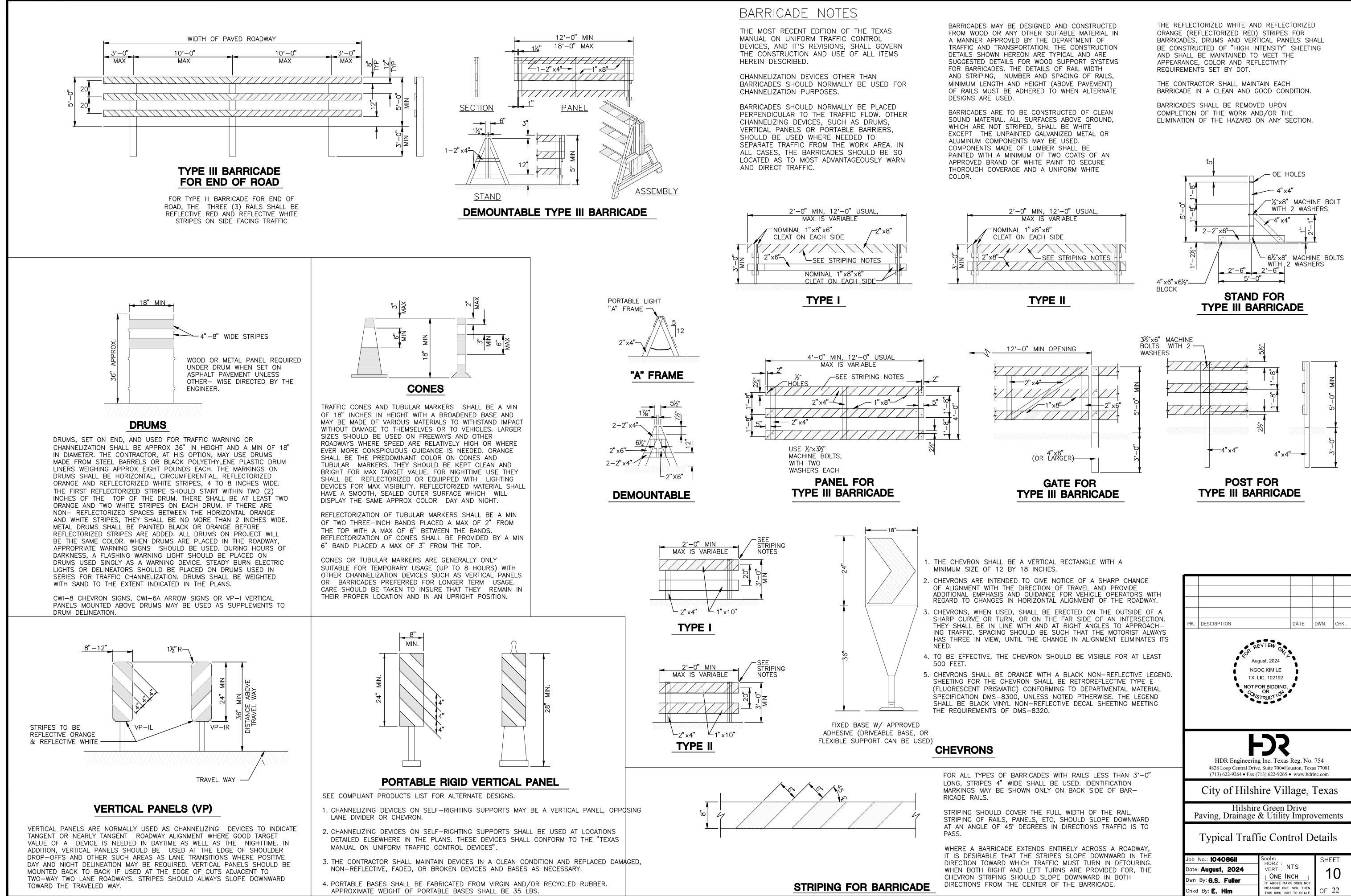


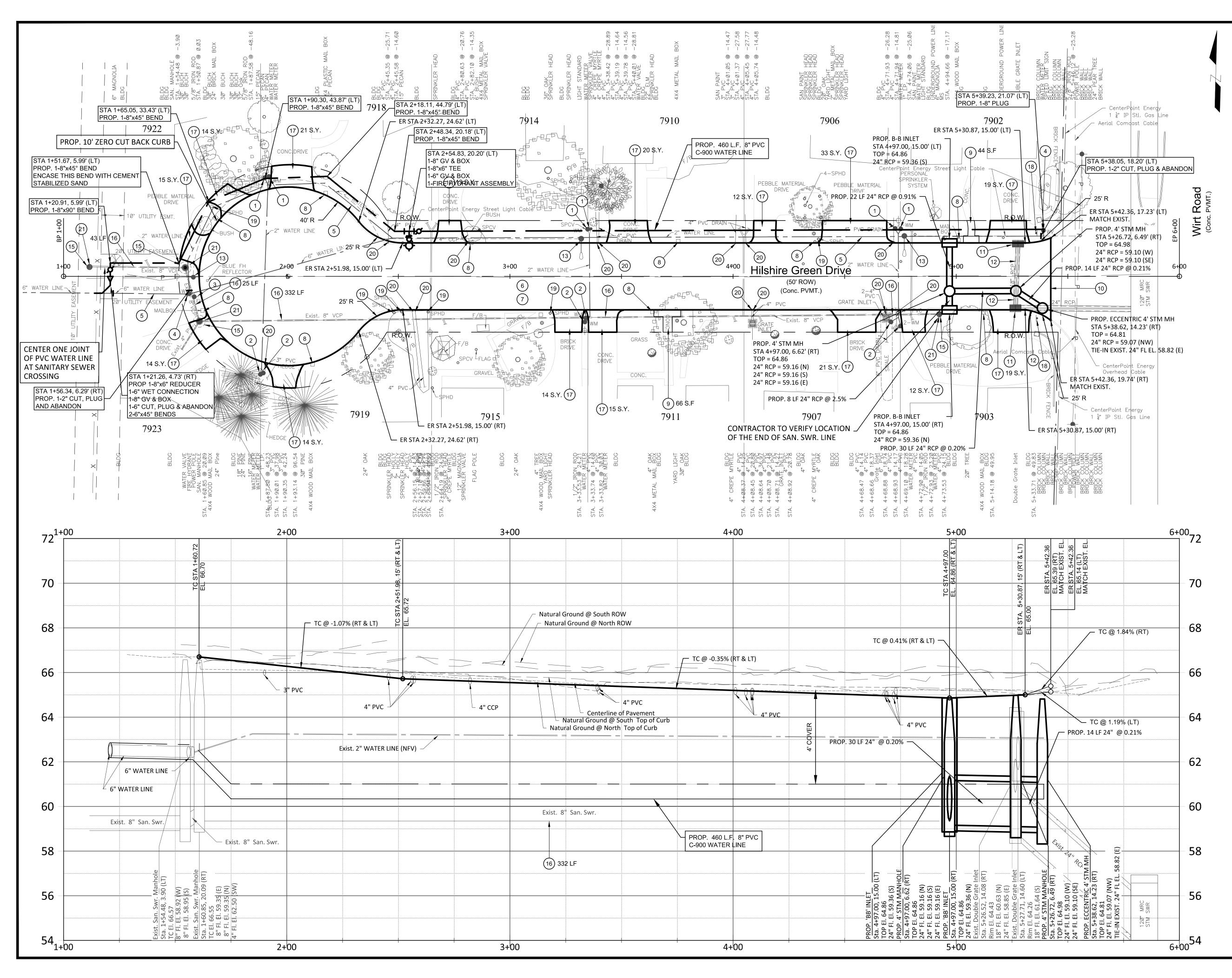


PHASE 3 NOTES:

- 1. PLACE EROSION CONTROL ITEMS WHERE APPLICABLE (TYPICAL OF ALL TRAFFIC CONTROL PLAN NARRATIVE SEQUENCE ITEMS.)
- 2. PLACE TRAFFIC CONTROL SIGNS AND DEVICES FOR PHASE 3 IN ACCORDANCE WITH TYPICAL SECTIONS AND PLANS.
- 3. CLOSE WESTBOUND LANE OF HILSHIRE GREEN DRIVE WHILE ALLOWING ONE LANE ROAD FOR TWO-WAY LOCAL TRAFFIC.
- 4. CONSTRUCT STORM SEWER, PAVEMENT, WALKWAYS AND DRIVEWAYS ON NORTH SIDE OF HILSHIRE GREEN DRIVE.



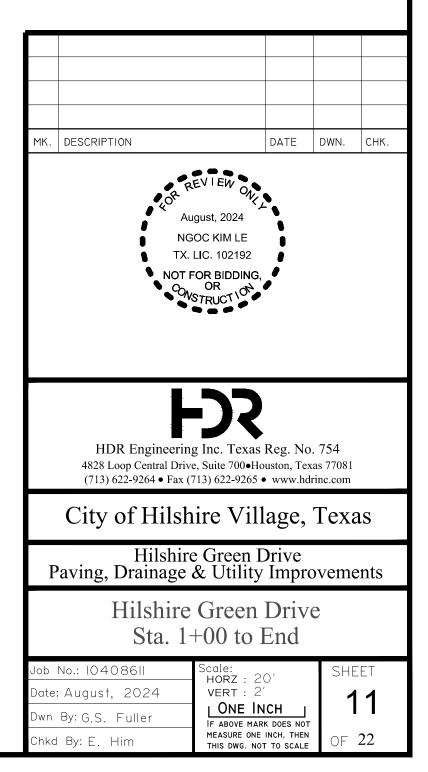


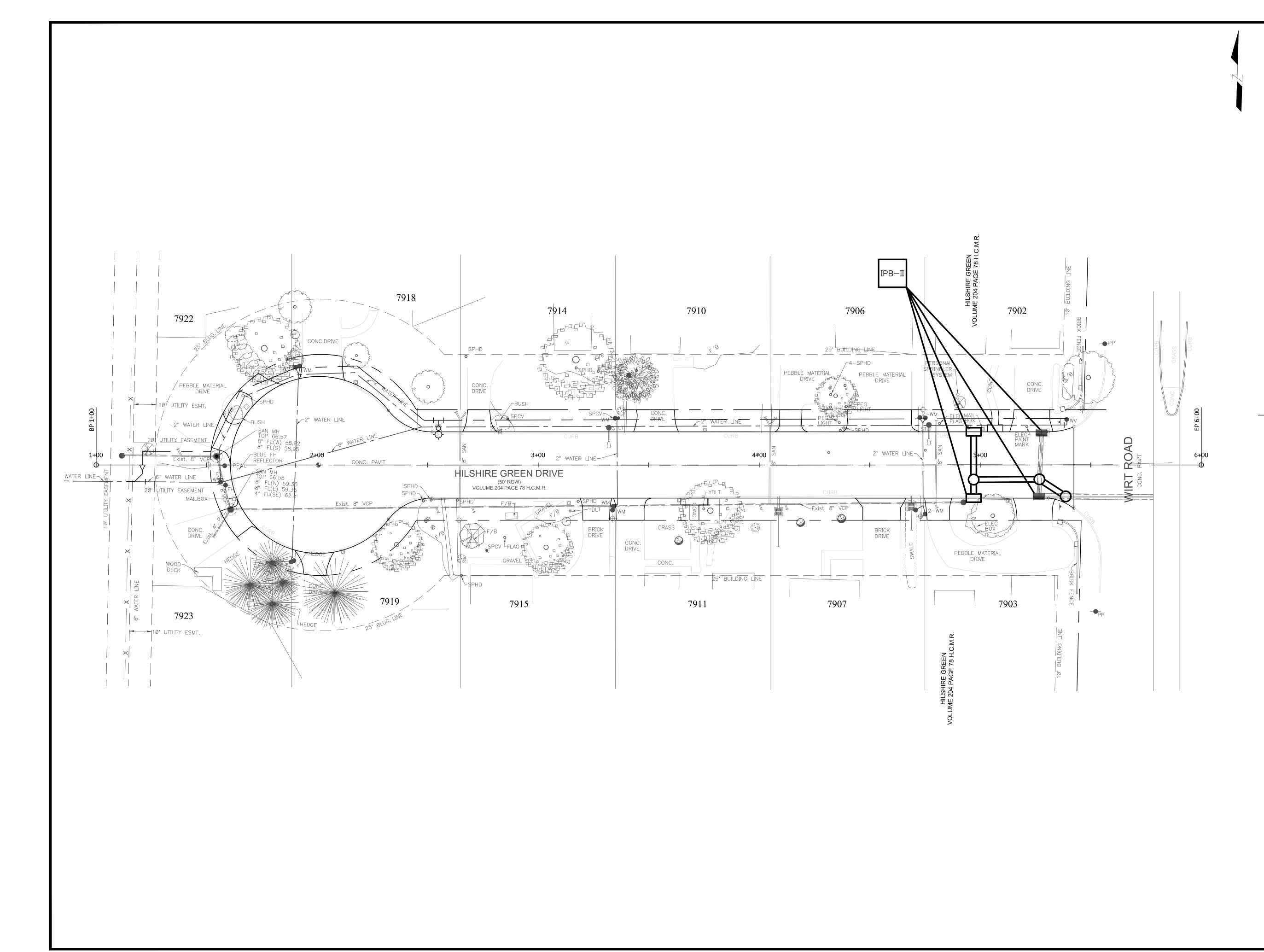


BENCHMARK: SEE SURVEY CONTROL MAP SHEETS 4 AND 5

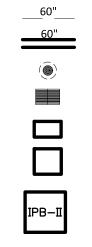
IMPROVEMENTS LEGEND: UTILITIES, PAVING & DRAINAGE:

- Proposed 1 ¹/₂" Short Side Water Service Replacement with New Meter Box.
- (2) 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.
- 7 Remove and Dispose of Existing Concrete Pavement and Base Course with Curb.
- (8) Remove and Reset Mailboxes.
- 9 Proposed Walkway Replacement.
- (10) Proposed Pavement Header.
- (I) Remove Existing Storm Sewer Inlet.
- (I2) 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.
- (14) Adjust Exist. Valve Box, Meter Box or Cleanout to be Flush With Top of Proposed Pvmt or Finished Grade as Noted in Plans. (No Separate Pay)
- (15) San Cementitious Wall Liner.
- (16) Proposed Sewer Rehab by Pipebursting.
- (17) Remove and Replace Driveway with Concrete.
- (18) Remove and Relocate Sign.
- (19) Cut and Plug Sprinkler Head at R.O.W No Replacement.
- (20) Remove and Replace existing Yard Drain using 4" PVC Pipe to penetrate through Proposed Curb.
- (2I) Adjust MH to Grade and replace with 32" ring and cover.





SW3P LEGEND



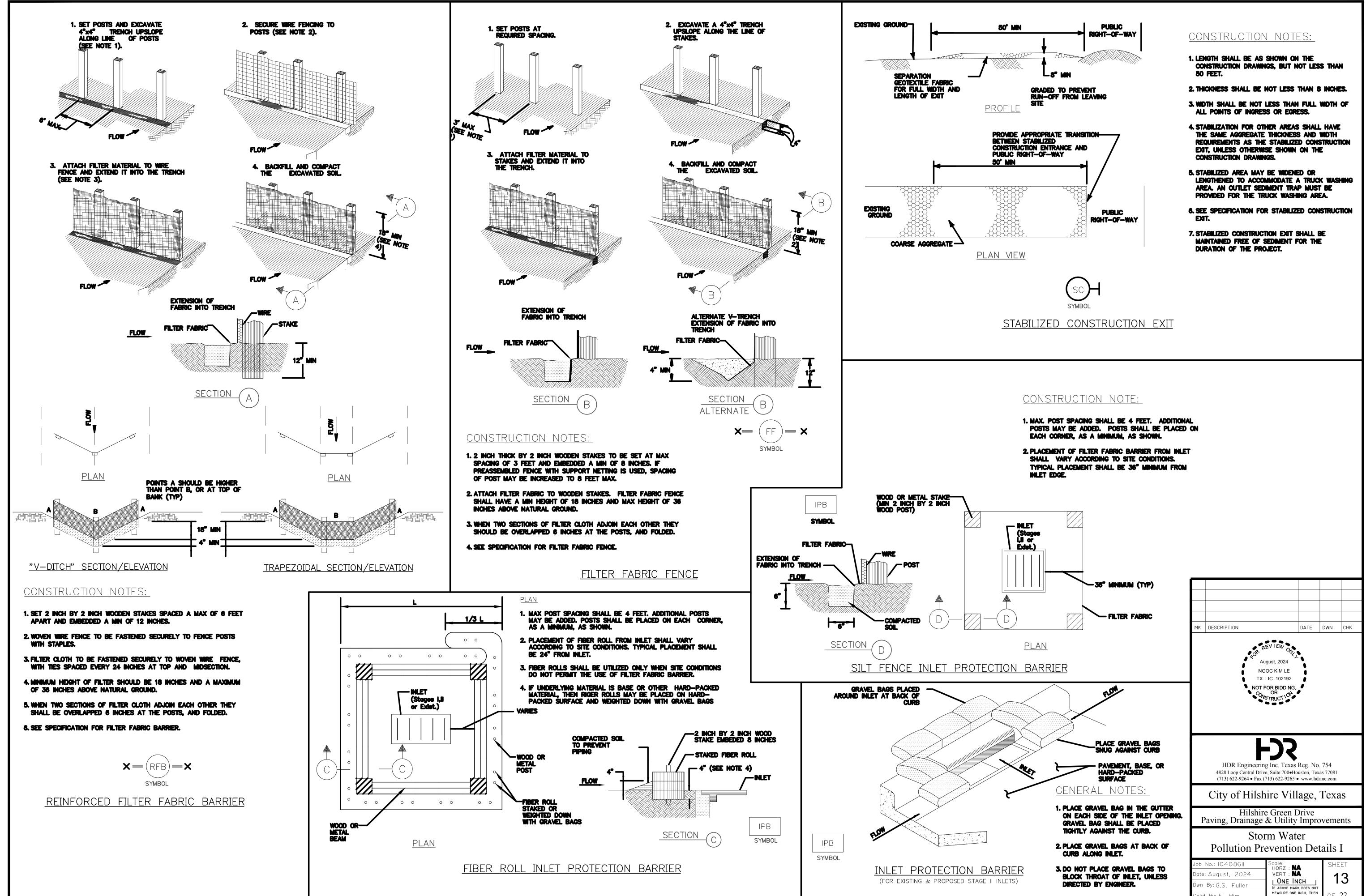
EXISTING STORM SEWER PROPOSED STORM SEWER EXISTING MANHOLE EXISTING "BB" INLET PROPOSED "BB" INLET

PROPOSED JUNCTION BOX

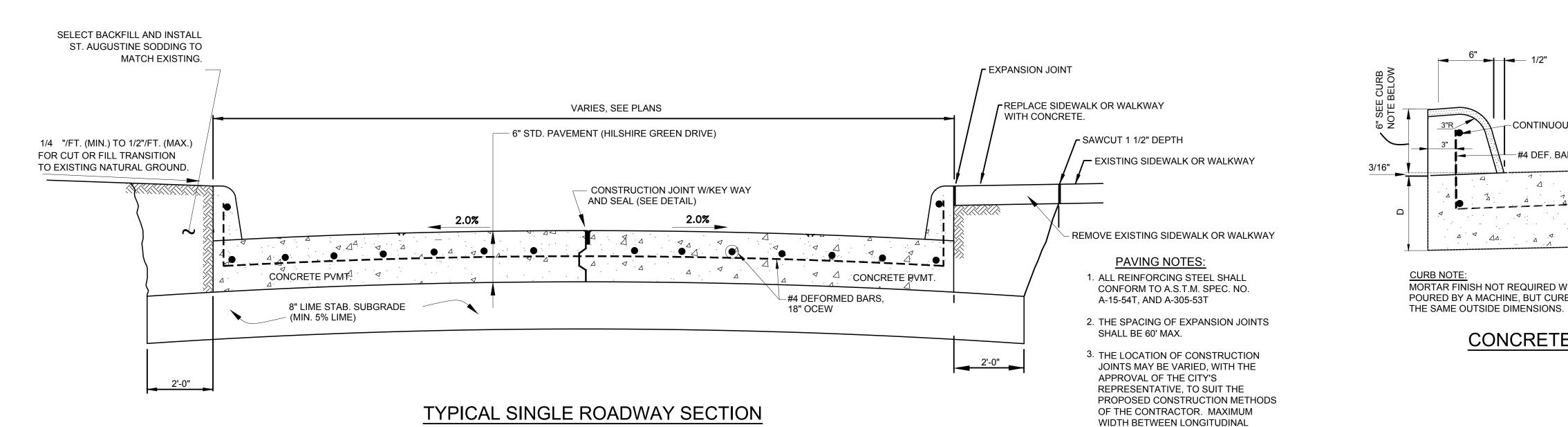
INLET PROTECTION BARRIER FOR EXIST. AND PROP. INLETS

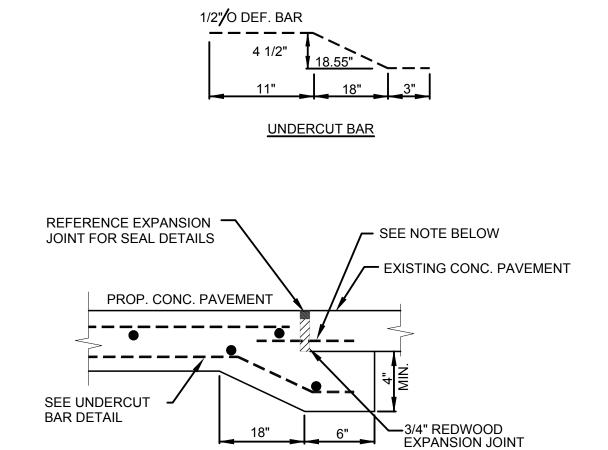
----- ROW IN PROJECT AREA





F 22 hkd By: E. Him THIS DWG. NOT TO SCALE

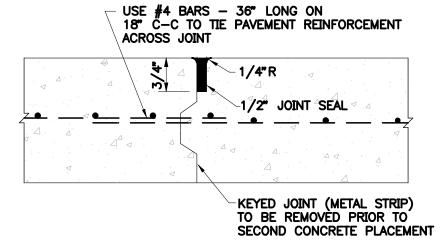




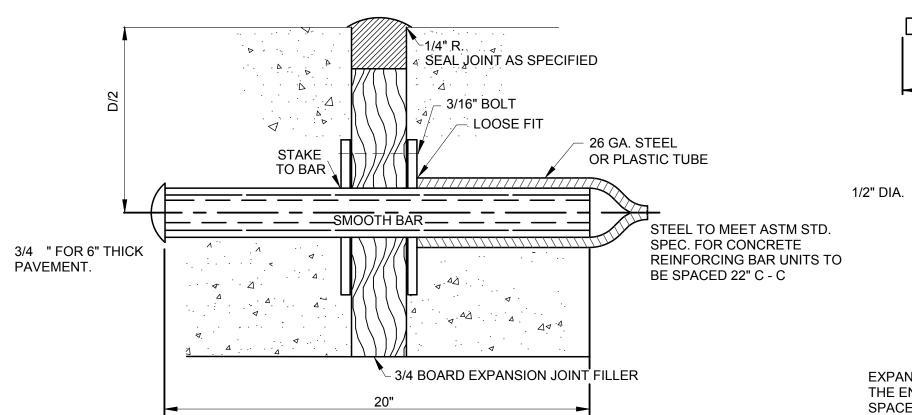
NOTE: PROVIDE ³/₄" (6" THK. PAVEMENT) DIAMETER SMOOTH STEEL BAR, 20" LONG ON 12" CENTERS. END TREATMENT SHALL MATCH EXPANSION JOINT ADJACENT TO HEADER. WHERE THE ADJACENT DOWEL INTO EXPANSION JOINT HAS A SLIP SLEEVE ADJACENT TO HEADER, DRILL HOLE AND DRIVE EXISTING PAVEMENT. WHERE ADJACENT EXPANSION 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

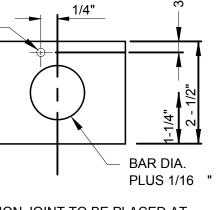
CONSTRUCTION JOINT AND SEAL



DOWEL TYPE EXPANSION JOINT



JOINTS SHALL NOT EXCEED 20'-0".



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



CONCRETE CURB

POURED BY A MACHINE, BUT CURB WILL HAVE

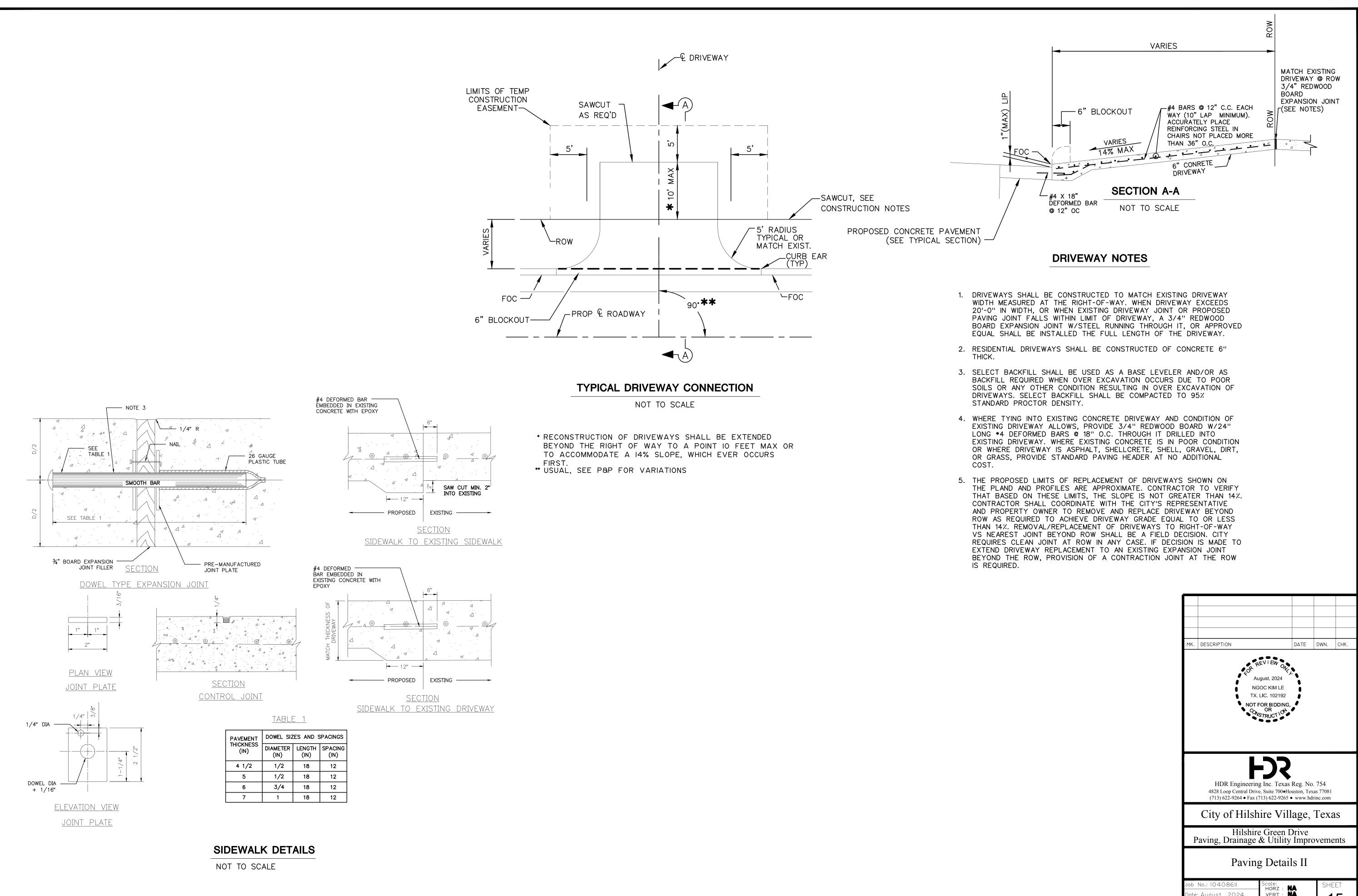
MORTAR FINISH NOT REQUIRED WHEN CURB IS

 \triangleleft $\Delta \Delta$. . ⊿ _ ∧

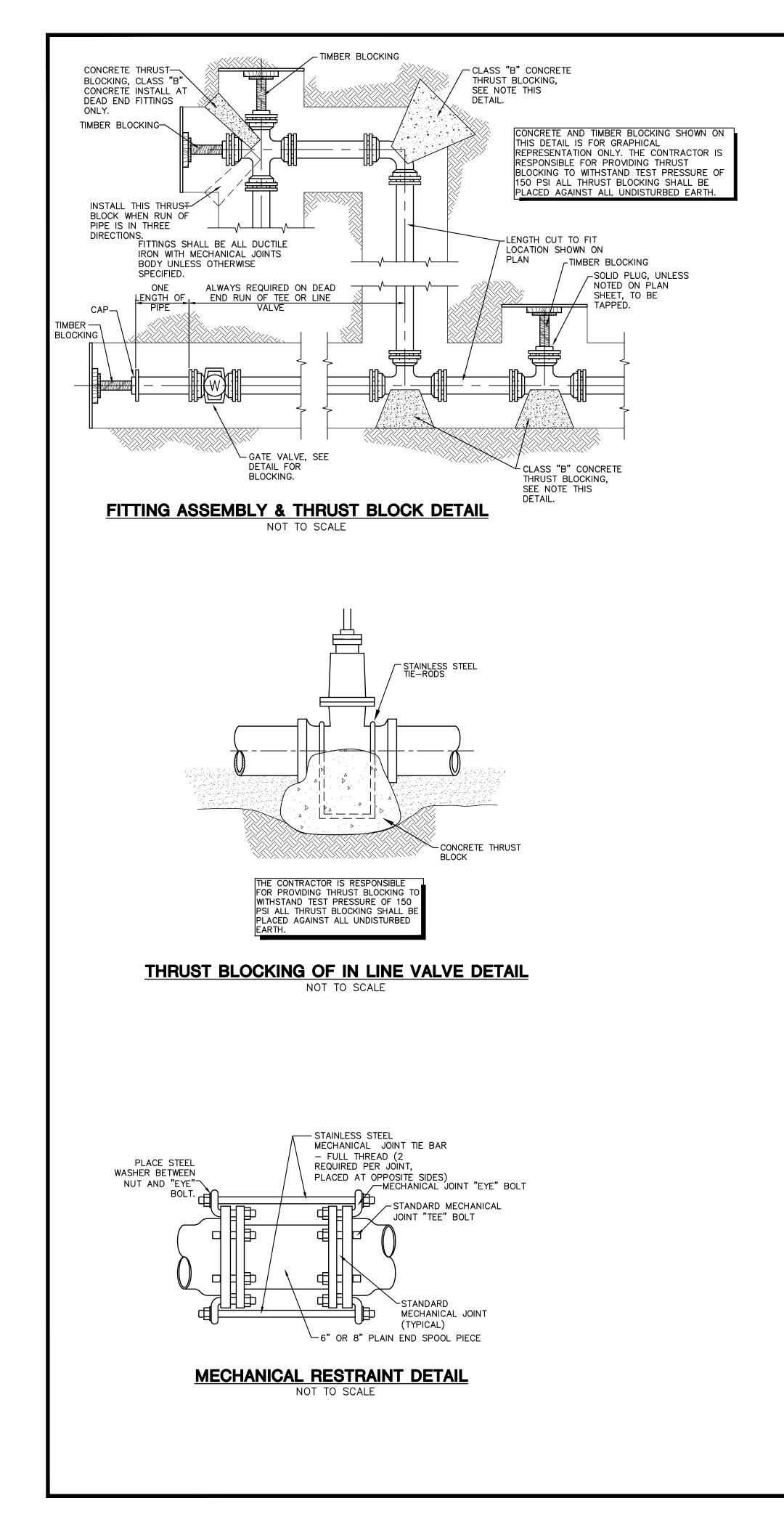
-#4 DEF. BARS, 24" O.C., 10" LONG

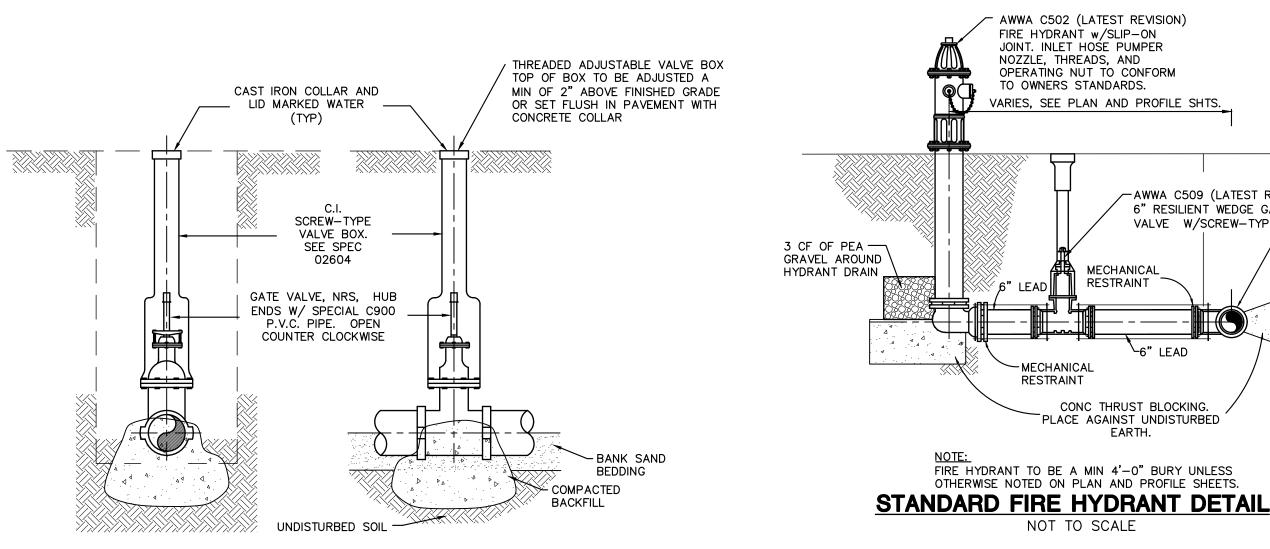
1/2"

-CONTINUOUS #4 DEF. BAR, 18" MIN LAP

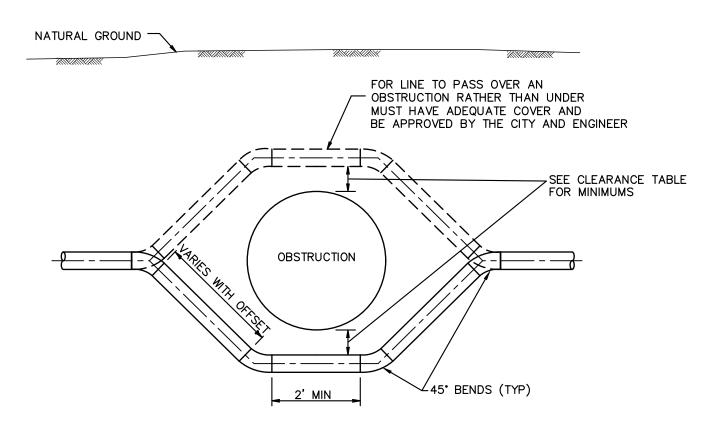


Job No.: 10408611	Scale: HORZ : NA	SHEET
Date: August, 2024	VERT : NA	15
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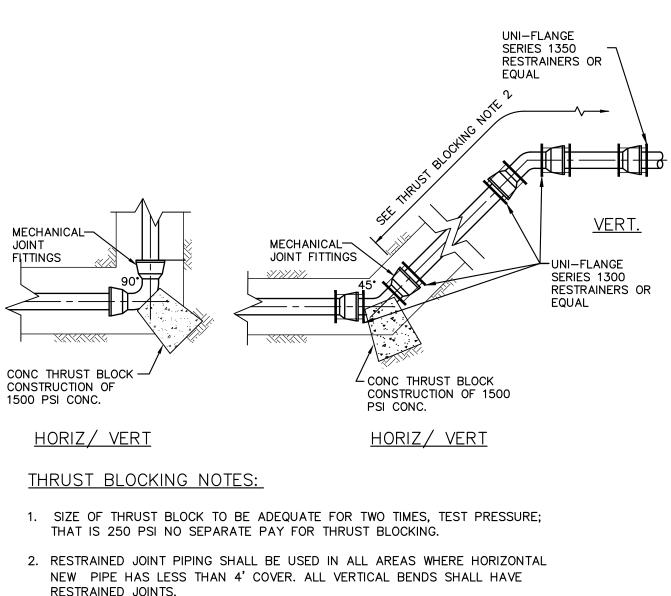
FRONT ELEVATION SIDE ELEVATION **GATE VALVE INSTALLATION DETAIL** NOT TO SCALE



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



- RESTRAINED JOINTS.

JOINT RESTRAINT DETAILS

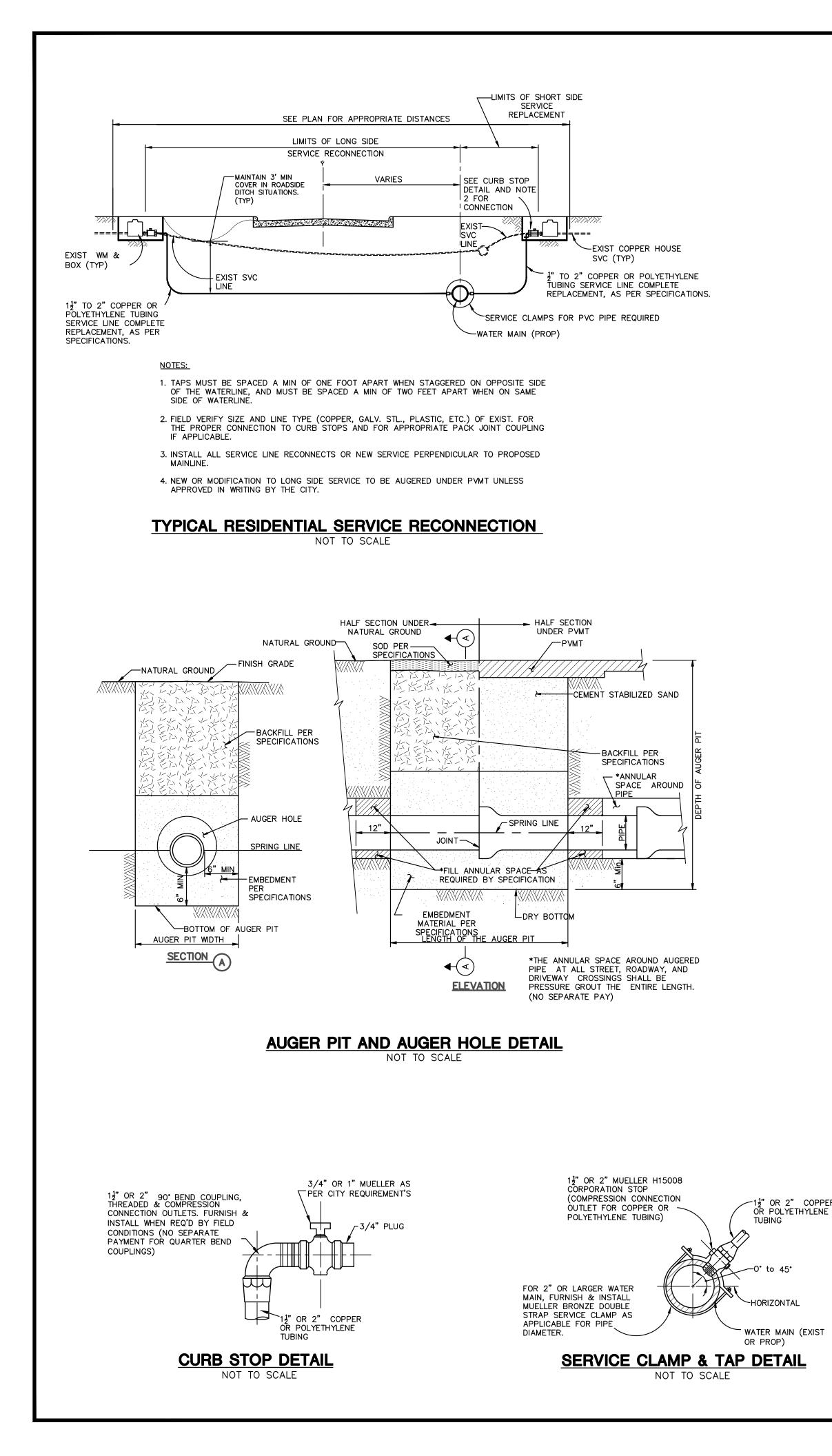
NOT TO SCALE

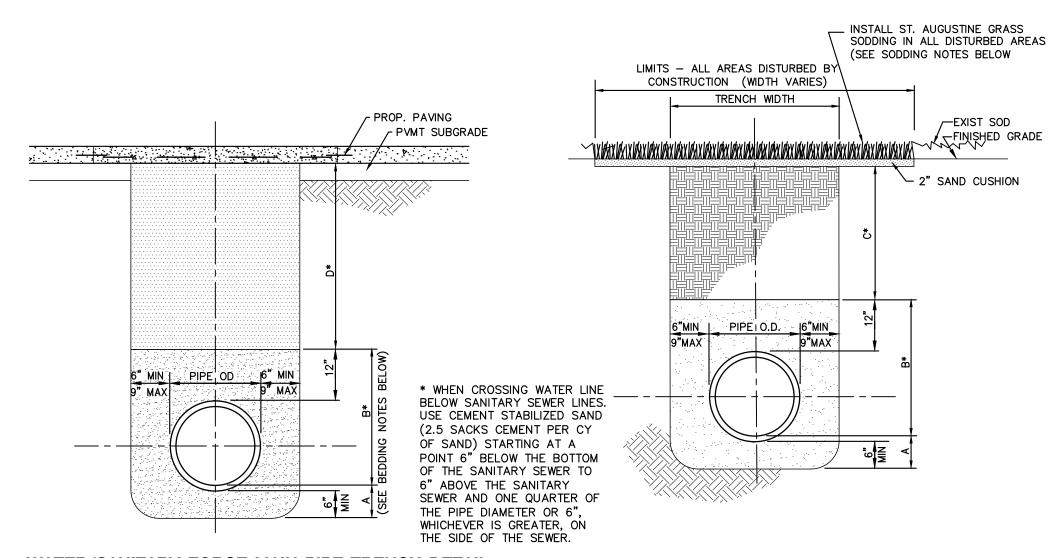
-AWWA C509 (LATEST REVISION) 6" RESILIENT WEDGE GATE VALVE W/SCREW-TYPE BOX - DI TEE, MS

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.







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

BEDDING NOTES:

"OR 2" COPPER

- 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)

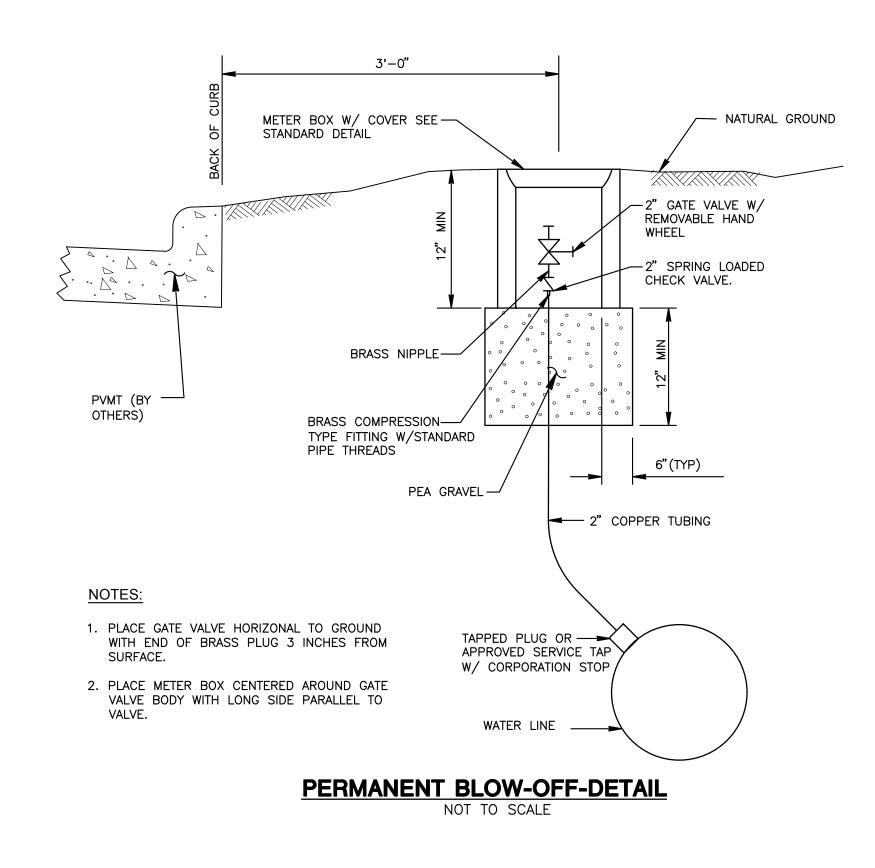
WATER/SANITARY FORCE MAIN PIPE TRENCH **DETAIL - FOR PIPES UNDER NATURAL GROUND**

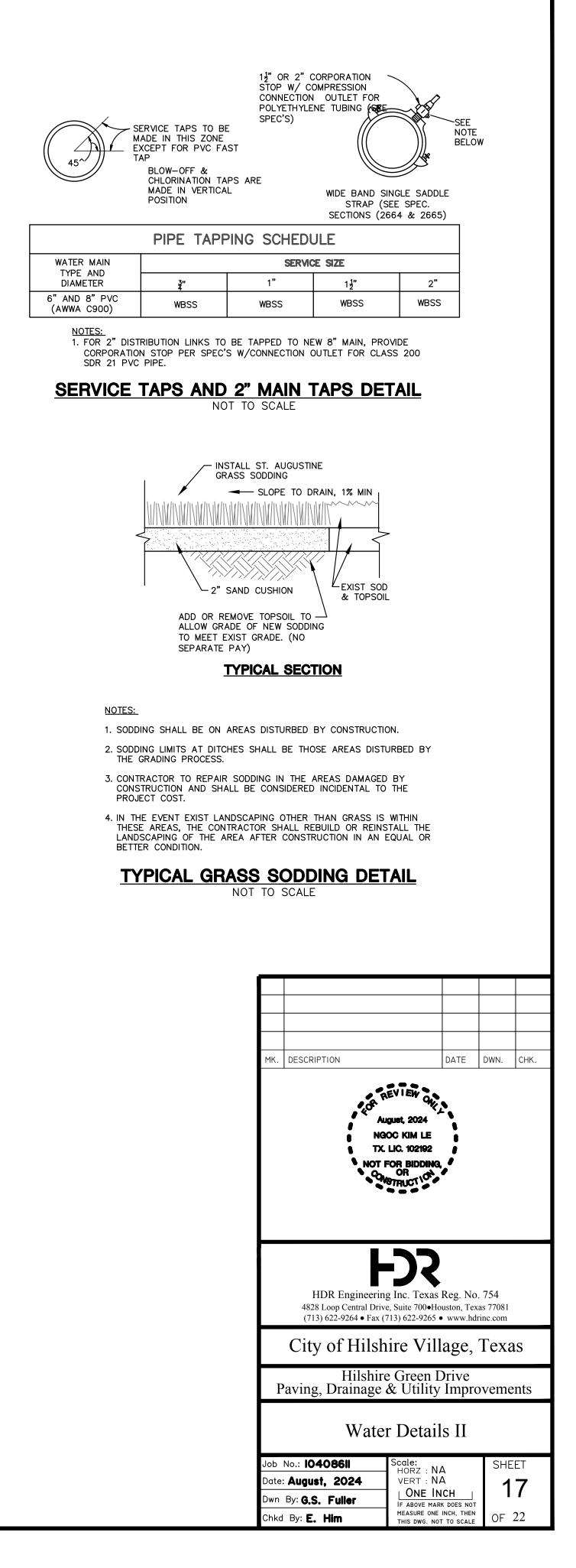
SODDING NOTES:

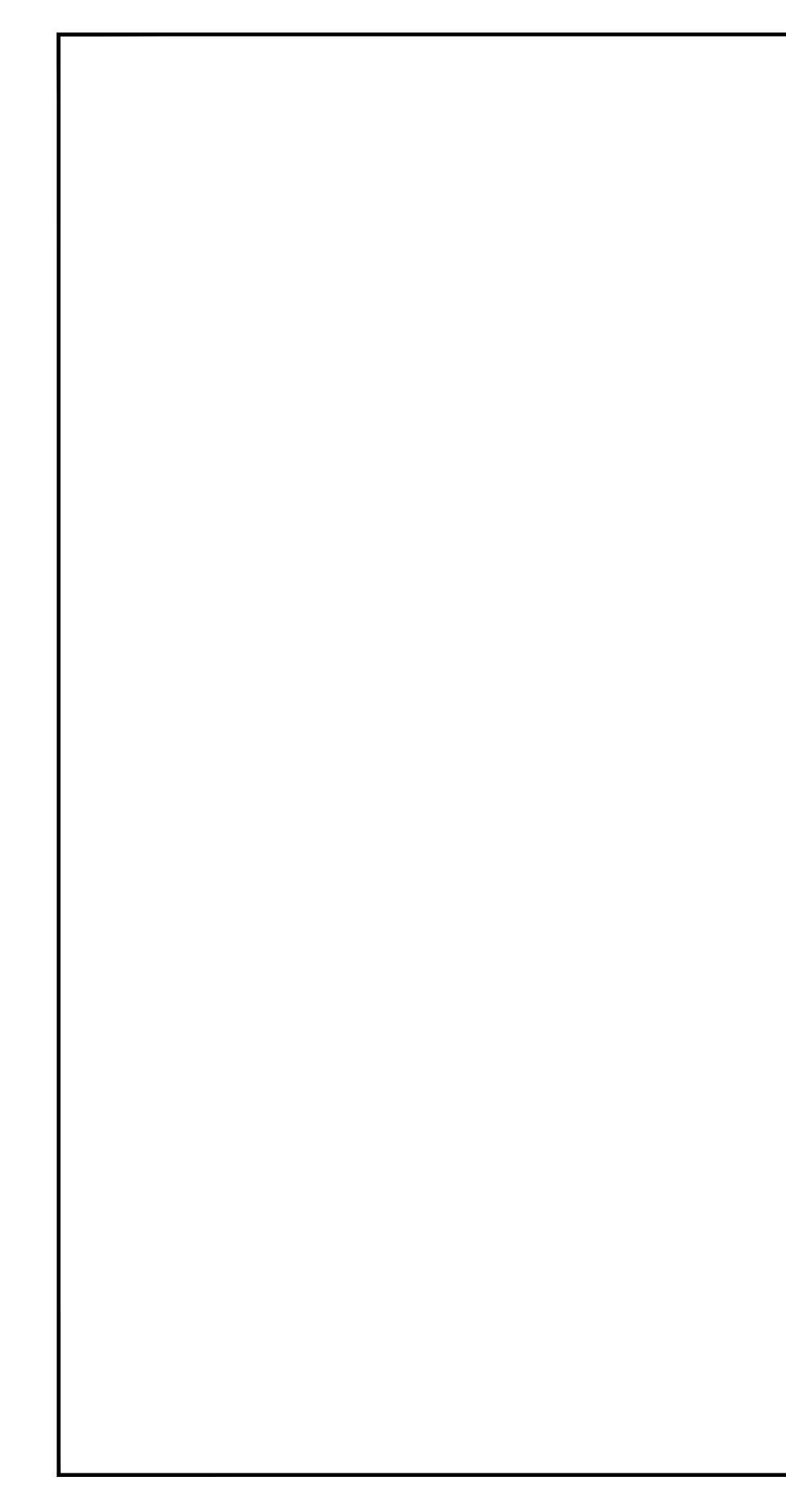
- 1. SODDING SHALL BE INSTALLED IN AREAS DISTURBED BY CONSTRUCTION.
- 2. CONTRACTOR SHALL REPLACE SODDING IN AREAS DAMAGED BY CONSTRUCTION AND THE REPLACEMENT SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
- 3. IF EXIST LANDSCAPING OTHER THAN GRASS IS WITHIN THESE AREAS, THE CONTRACTOR SHALL REBUILD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

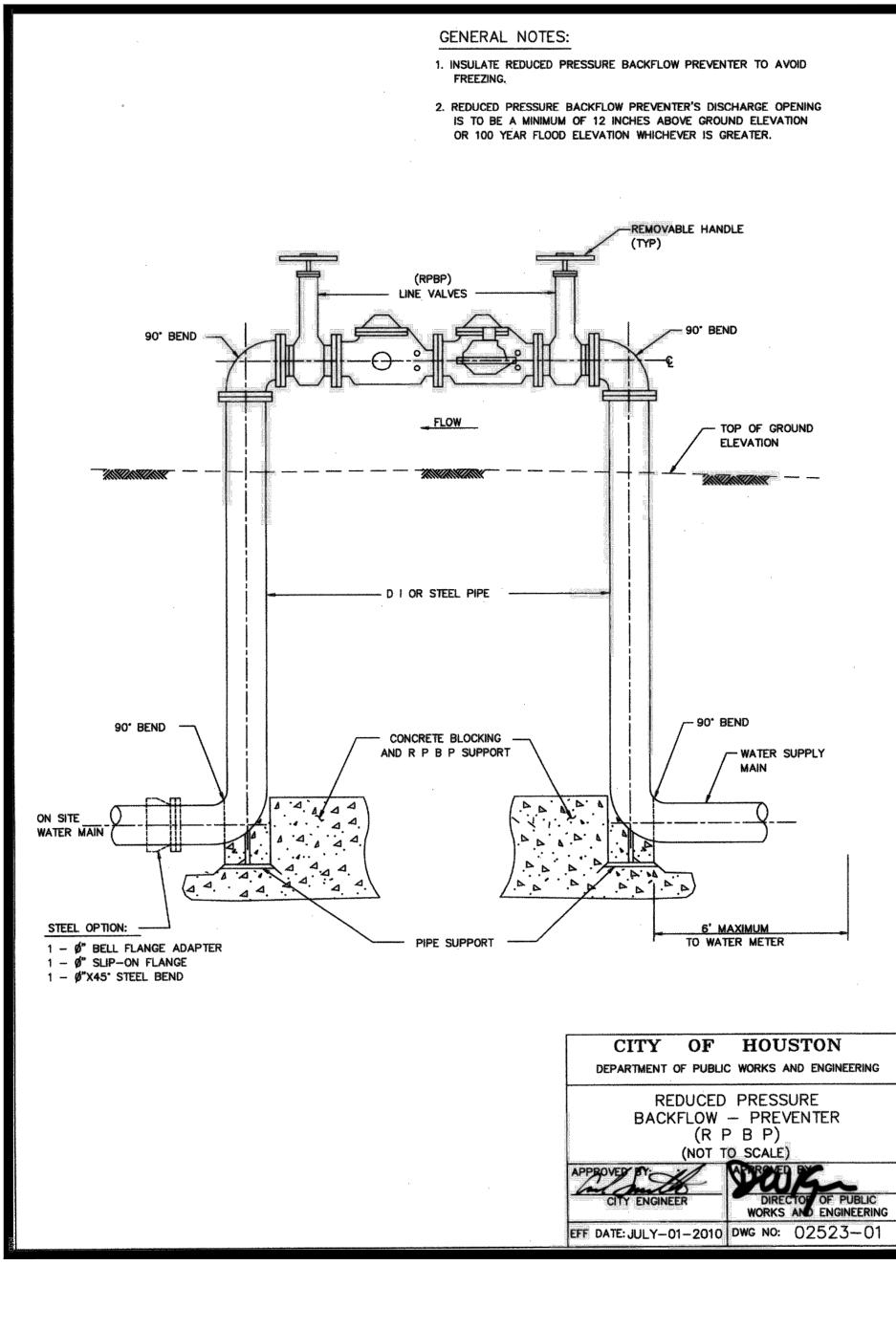
BEDDING AND SODDING NOTES FOR TRENCH DETAILS

NOT TO SCALE

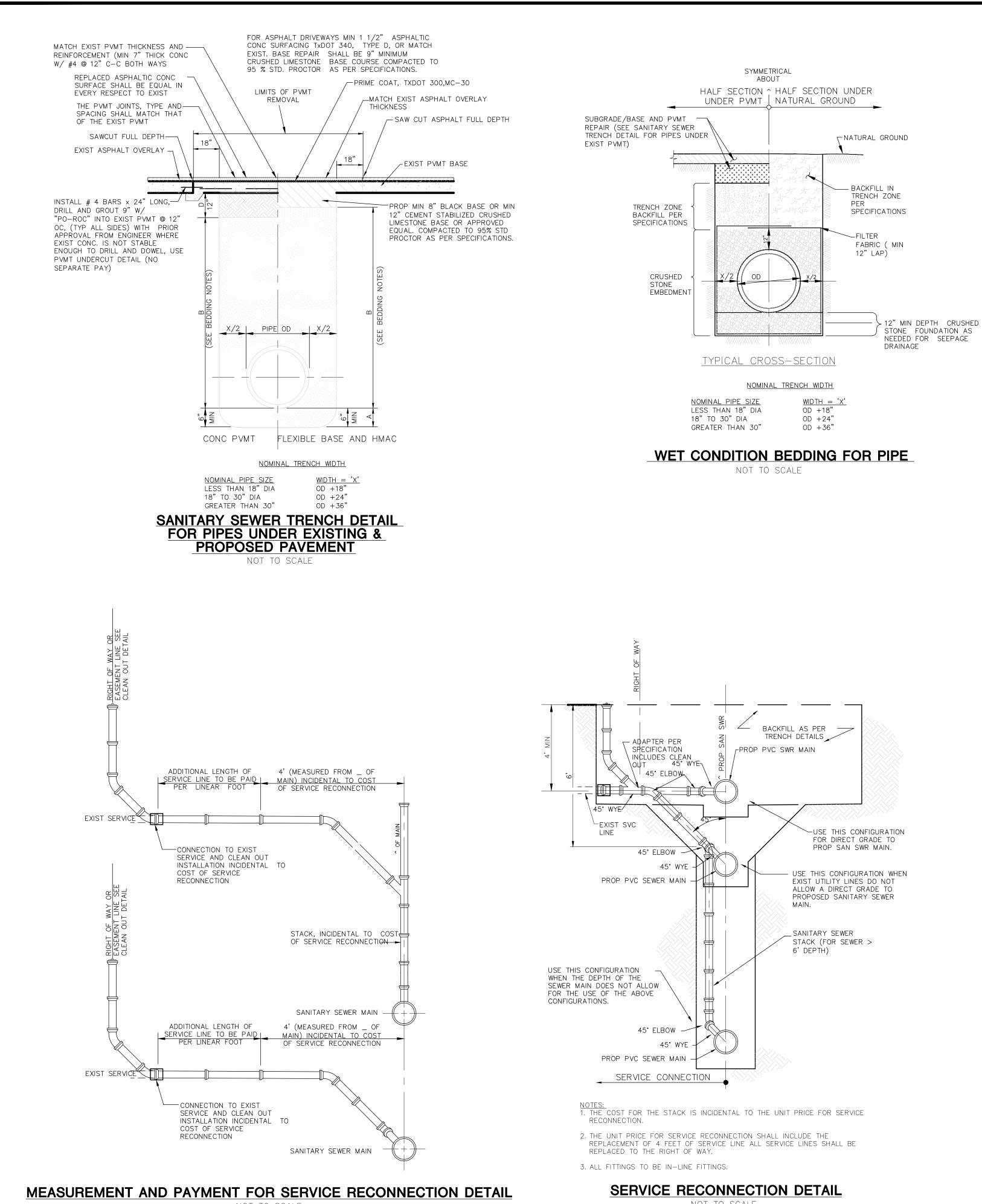












NOT TO SCALE

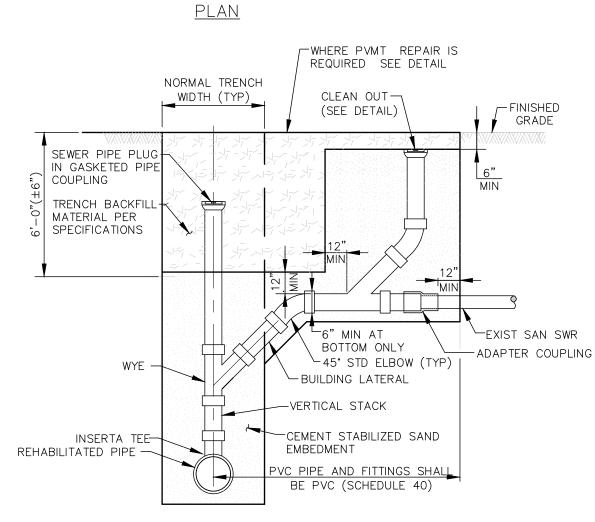
NOT TO SCALE

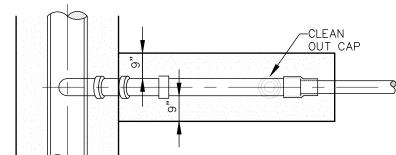
TYPICAL SANITARY SEWER BEDDING DETAIL NOT TO SCALE

CROSS-SECTION OF SEWER AT CONNECTION

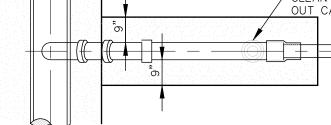


EXCAVATE & REMOVE AND DISPOSE EXIST SEWER AS REQUIRED TO ALLOW RECONSTRUCTION.

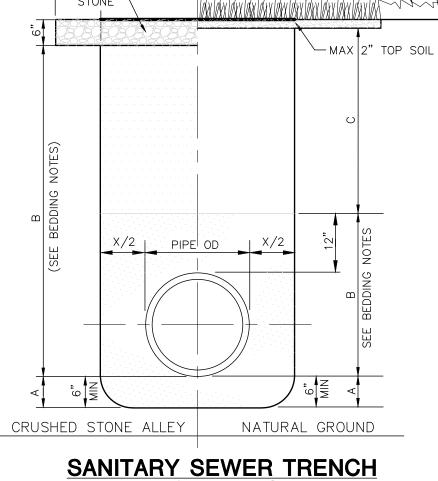












PERFORMED AS UNDER PVMT. SODDING AND SEEDING NOTES:

- 1. SODDING OR SEEDING SHALL BE INSTALLED IN AREAS DISTURBED BY CONSTRUCTION.
- 2. CONTRACTOR SHALL REPLACE SODDING IN AREAS DAMAGED BY CONSTRUCTION. SUCH 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 TO AN EQUAL OR BETTER CONDITION.

LIMITS-ALL AREAS DISTURBED BY

CONSTRUCTION (WIDTH VARIES)

TRENCH WIDTH

- D698, UNLESS OTHERWISE NOTED. D. SELECT EARTH BACKFILL, MAX LIQUID LIMIT 40 ASTM D4318, P.I. MIN 7, MAX 20 CONTAINING NO ROCKS OR OTHER DEBRIS NOR CONTAINING ANY DIRT CLODS EXCEEDING 6" IN ANY DIMENSION. PLACED IN 6" LAYERS AND
- EXCEEDING 6" IN ANY DIMENSION. PLACED IN 6" LAYERS, PROCESSED IF NECESSARY AND THOROUGHLY COMPACTED TO A DENSITY EQUIVALENT TO A MIN OF 90% OF MAX DRY DENSITY AS DETERMINED BY ASTM
- SIDEWALKS. C. NATIVE EARTH BACKFILL, CONTAINING NO ROCKS OR OTHER DEBRIS NOR CONTAINING ANY DIRT CLODS

OR TO FLOW LINE OF PIPE OR ABOVE - MIN DEPTH = 6".

BEDDING & BACKFILL NOTES:

COMPACTED' CRUSHED-

STONE

B. CEMENT STABILIZED SAND (AS SPECIFIED) THOROUGHLY RODDED, PLACED AFTER PIPE IS LAID. CEMENT STABILIZED SAND TO 6 INCHES BELOW BOTTOM OF SUBGRADE FOR BACKFILL UNDER ALL DRIVEWAYS AND

A. CEMENT STABILIZED SAND (AS PER SPECIFICATIONS) PLACED BEFORE PIPE IS LAID UP TO FLOW LINE OF PIPE

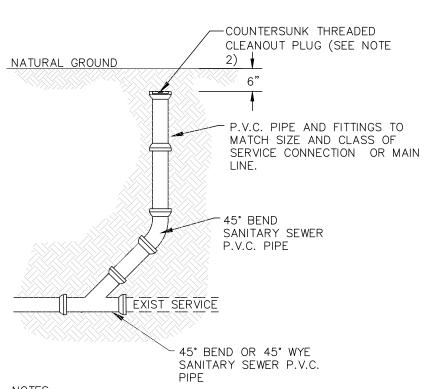
COMPACTED TO AT LEAST 95% OF THE MAXIMUM STANDARD PROCTOR DRY DENSITY (ASTM D698) AND AT A MOISTURE CONTENT WITHIN TWO PERCENTAGE POINTS OF THE OPTIMUM MOISTURE CONTENT.

E. FOR SANITARY SEWER FORCE MAINS, UTILIZE COMPACTED BANK SAND IN LIEU OF CEMENT STABILIZED SAND FOR NOTES A & B ABOVE. IF OUTSIDE EDGE OF PIPE IS WITHIN 2' OF BACK OF CURB, BACKFILL SHALL BE

GRASS SODDING

- FINISHED GRADE

EXIST SOD



NOTES:

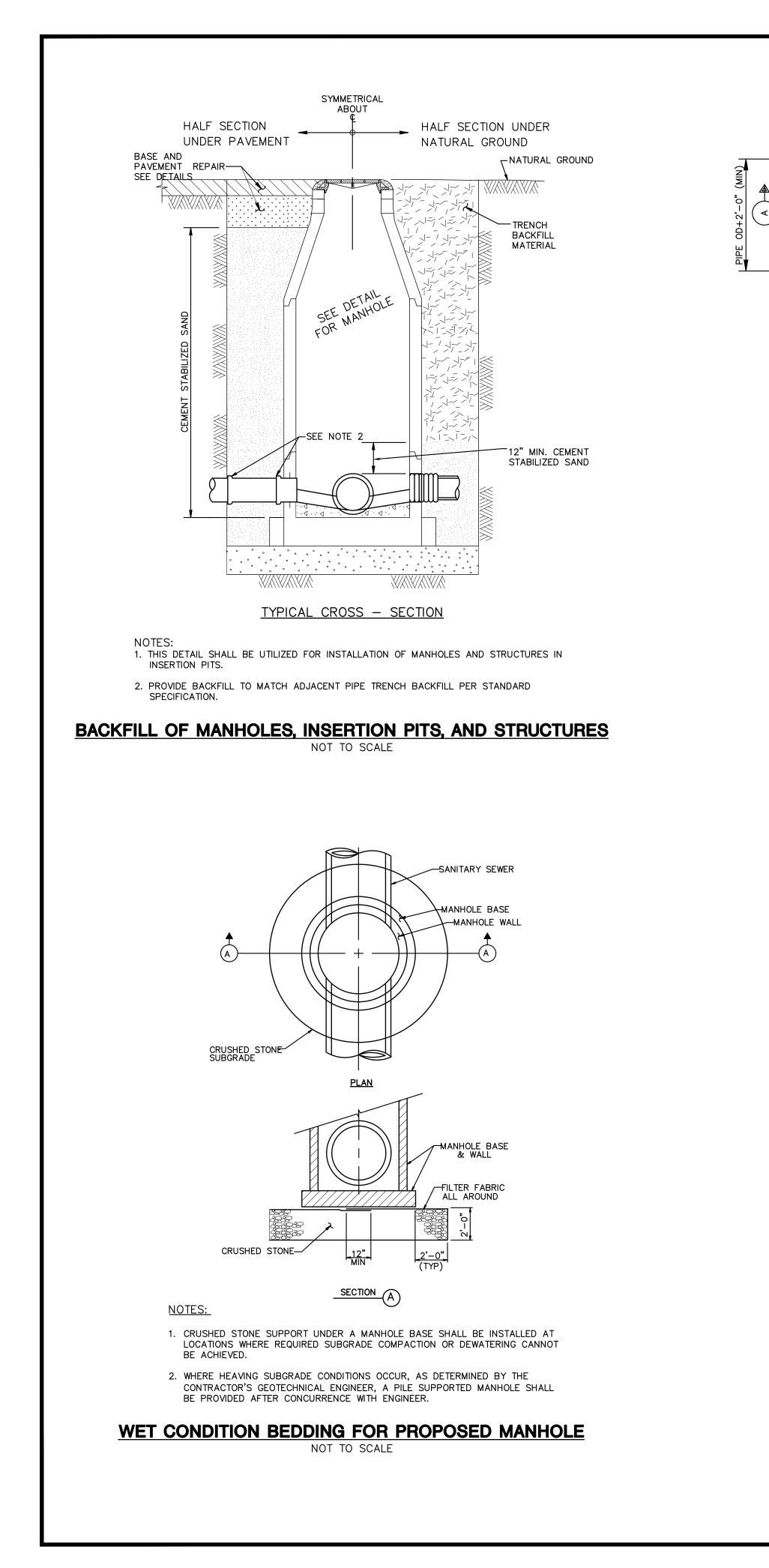
1. CLEANOUTS SHALL BE INSTALLED AT THE RIGHT OF WAY OR EASEMENT LINE FOR ALL SERVICE LINE REPLACEMENTS (NO SEPARATE PAY).

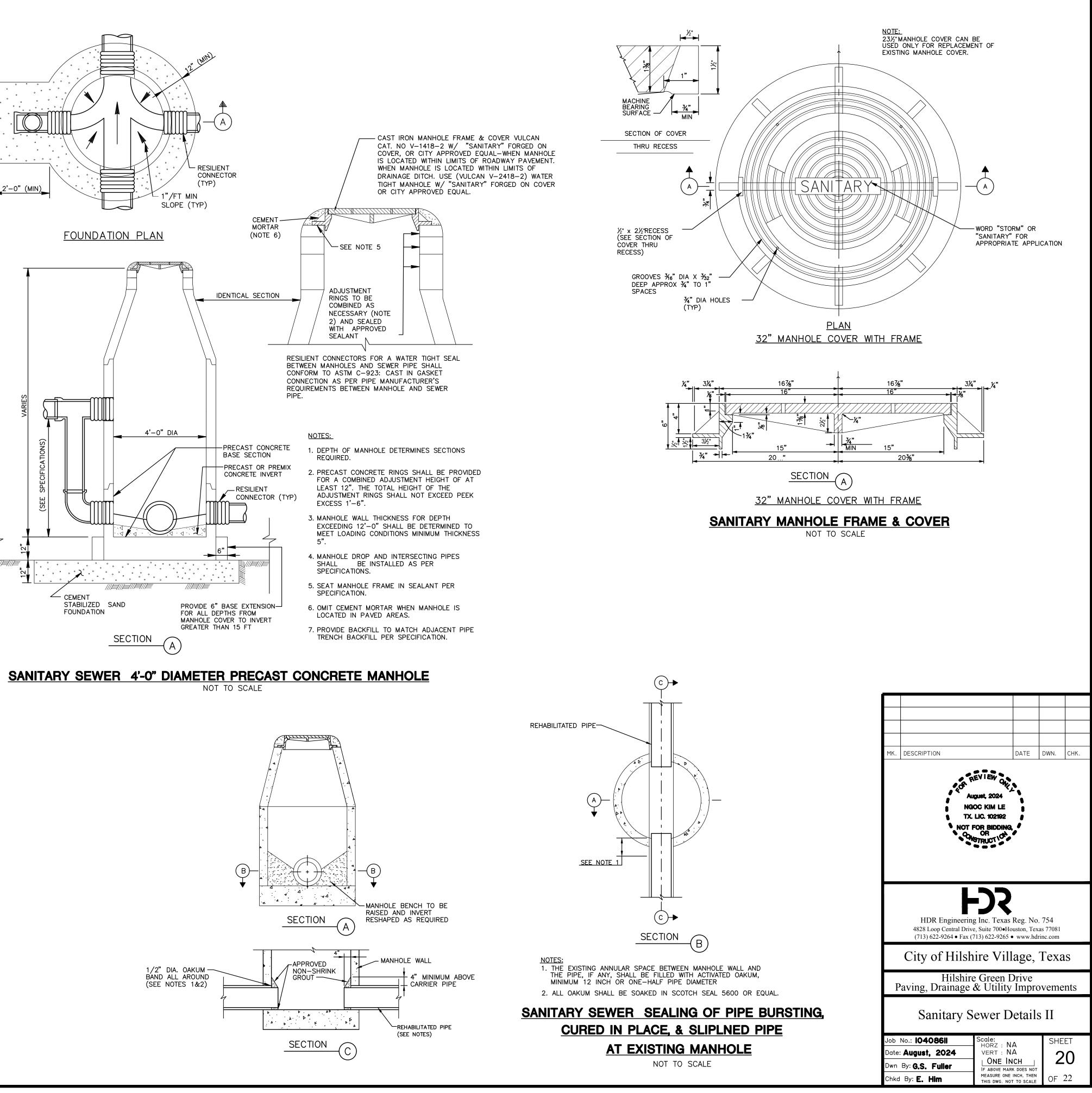
2. CLEANOUT PLUG (CAP) LOCATED UNDER NATURAL GROUND SHALL BE BRASS. CLEANOUT PLUG (CAP) IN THE PVMT (STREET, ALLEYS (INCL. CRUSHED STONE), DRIVEWAYS, SIDEWALKS) SHALL BE BRASS.

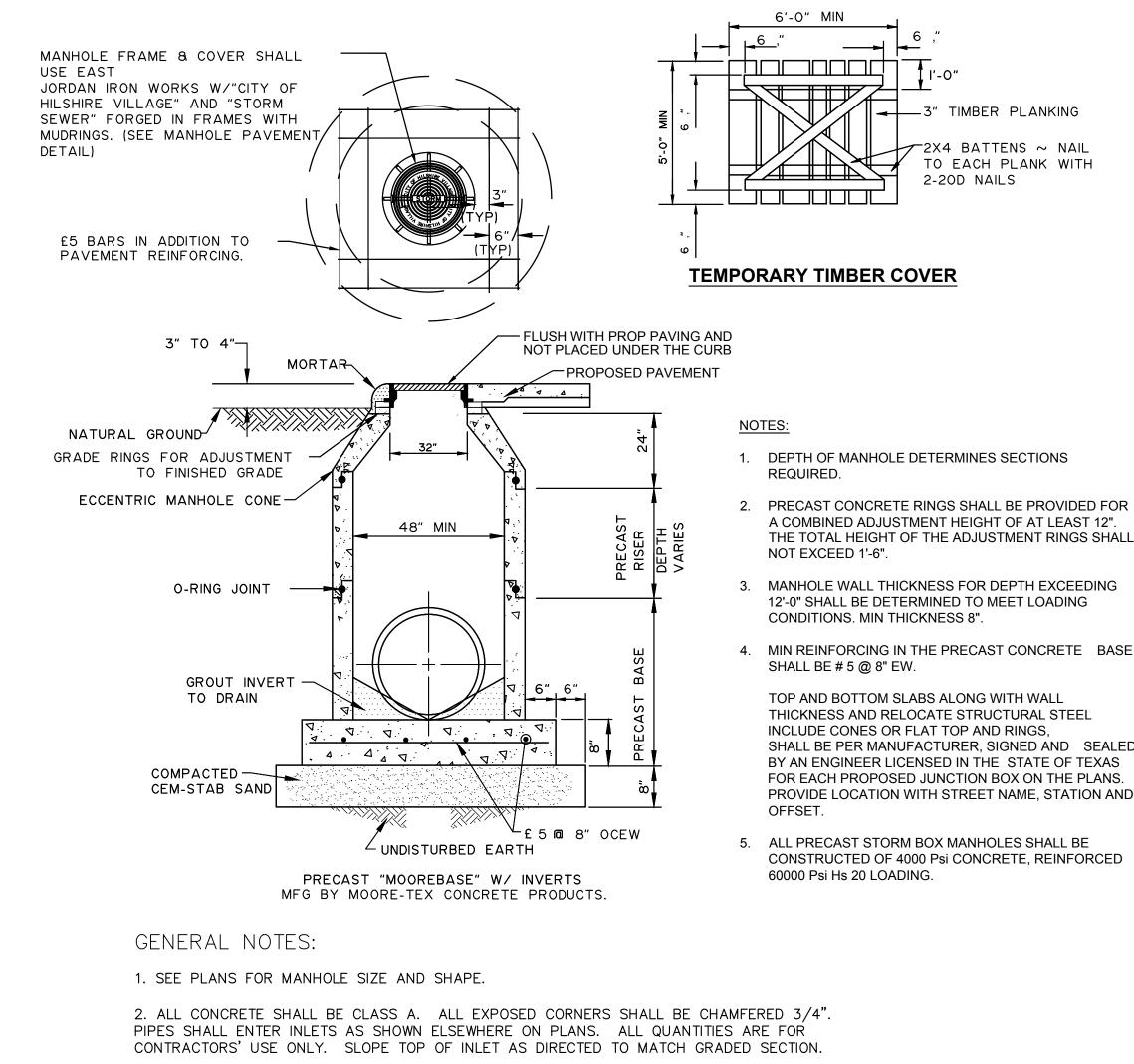
CLEAN OUT DETAIL (MAIN LINE & SERVICE LINE)

NOT TO SCALE









3. ALL MATERIALS USED IN CASTING MANHOLE COVERS SHALL CONFORM TO ASTM SPECIFICATIONS.

4. MANHOLE RING AND COVER SHALL BE PER SPECIFICATIONS. CONNECTION OF PIPES TO PRECAST UNITS SHALL BE SEALED WITH NON-SHRINK GROUT, INSIDE AND OUTSIDE.

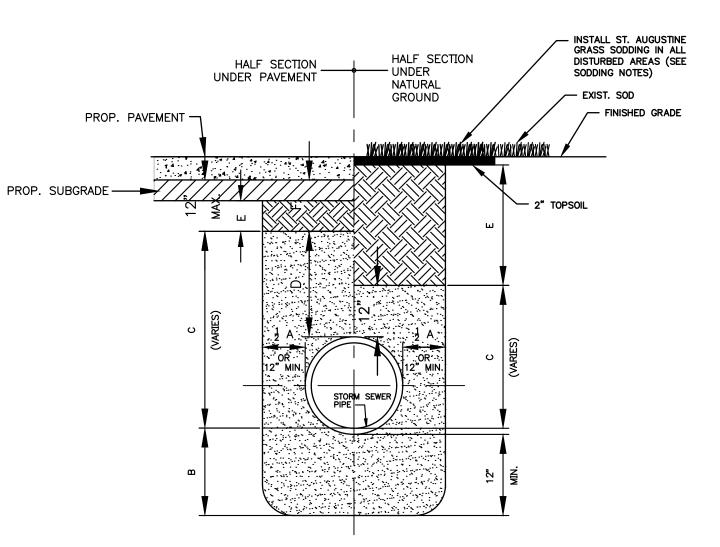
PRECAST CONCRETE MANHOLE

NOT TO SCALE

TIMBER PLANKING

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

SHALL BE PER MANUFACTURER, SIGNED AND SEALED PROVIDE LOCATION WITH STREET NAME, STATION AND



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

GENERAL NOTES:

- 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.

24"

24"

BEDDING AND BACKFILL NOTES FOR STORM SEWER INSTALLATION:

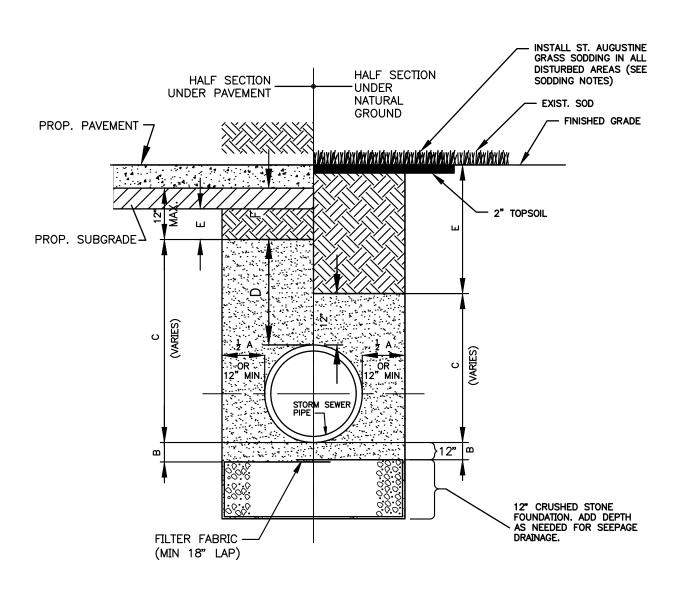
Α.	MIN.	TREN	ICH WID	TH SH	HALL	BE	PIPE	0.D.	PLUS	AN	ALLOWANCE	"/
	FOR	THE	NOMINA	L PIP	E SI	ZE:						
			NOMINA	L PIP	E SI	ZE				" A	,"	

<18"	
18" TO 3Ø"	
>3Ø"	

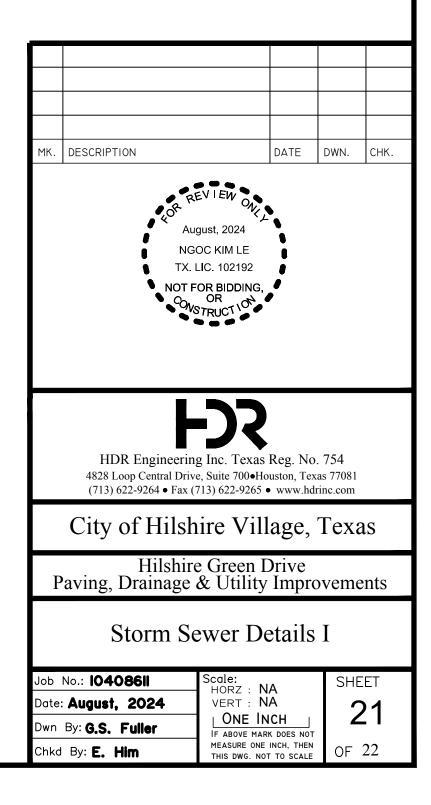
- B. CEMENT STABILIZED SAND (1.1 SACKS OF CEMENT PER TON, COMPACTED TO AT LEAST 95% OF MAX. STD. PROCTOR) PLACED BEFORE PIPE IS LAID UP TO FLOW LINE OF PIPE OR ABOVE-MINIMUM DEPTH = 12° .
- C. CEMENT STABILIZED SAND (AS SPECIFIED ABOVE) THOROUGHLY RODDED, PLACED AFTER PIPE IS LAID.
- D. CEMENT STABILIZED 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.

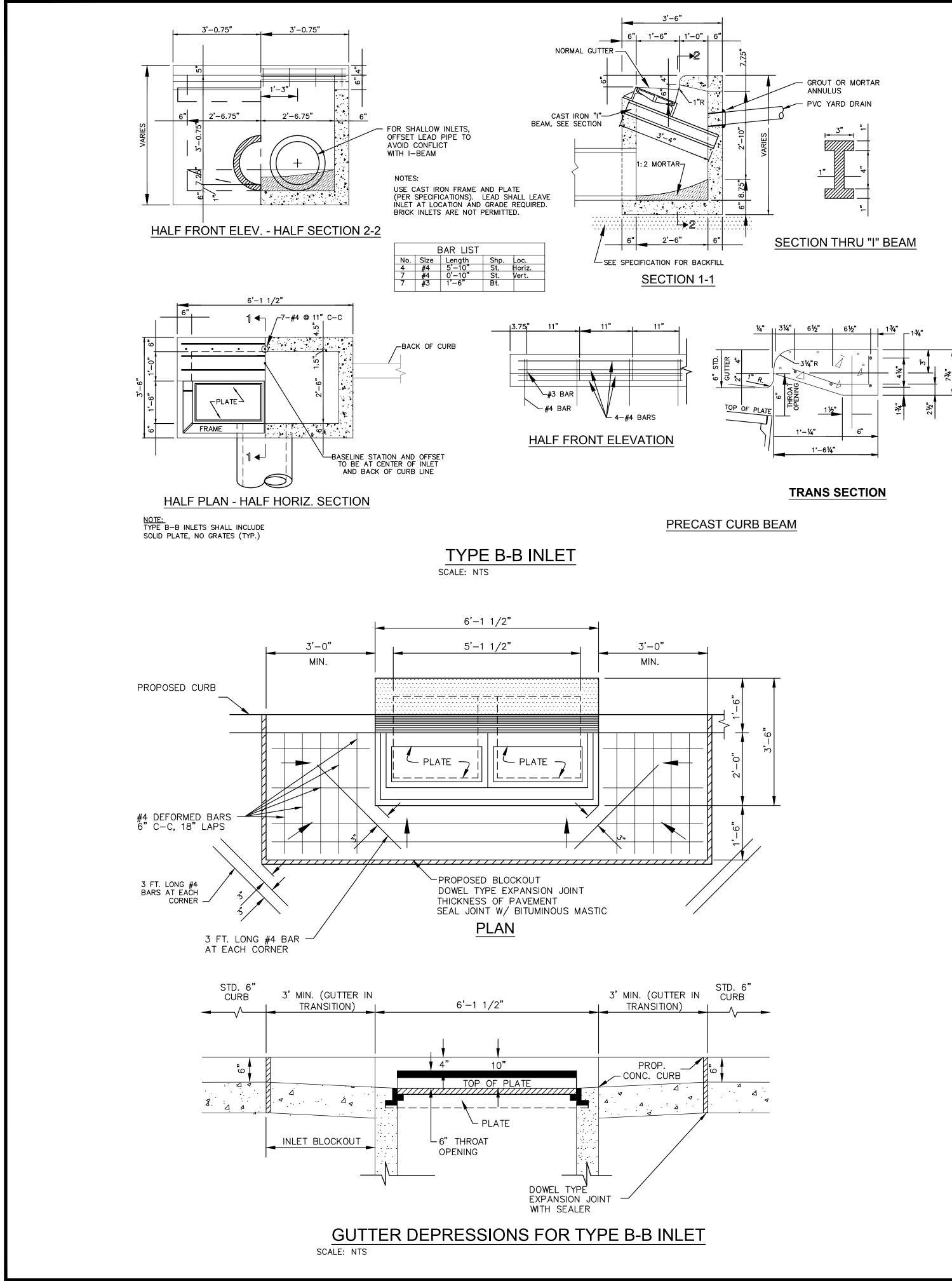
SODDING NOTES FOR STORM SEWER INSTALLATION:

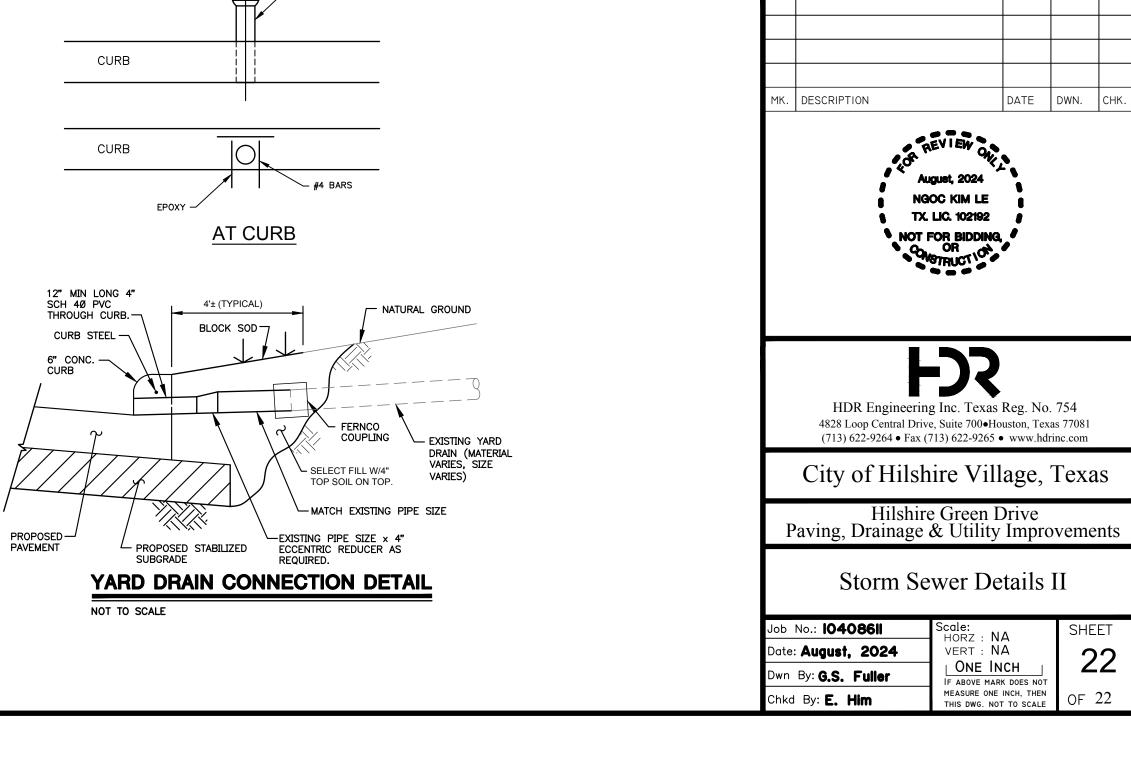
- 1. SODDING SHALL BE INSTALLED IN AREAS DISTURBED BY CONSTRUCTION. 2. CONTRACTOR SHALL REPLACE SODDING IN AREAS DAMAGED BY CONSTRUCTION AND THE REPLACEMENT SHALL BE CONSIDERED INCIDENTAL
- TO THE PROJECT. 3. IF EXISTING LANDSCAPING OTHER THAN GRASS IS WITHIN THESE AREAS,
- THE CONTRACTOR SHALL REBUILD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











- Yard Drain