DRAFTER: AG 01/10/25
CKR: HE 01/10/25
ENGR:

RUSH PRIORITY

- PRIORITY 1 ☑
- PRIORITY 2 ☐
- NORMAL ☐

GAS SERVICE COORDINATOR:

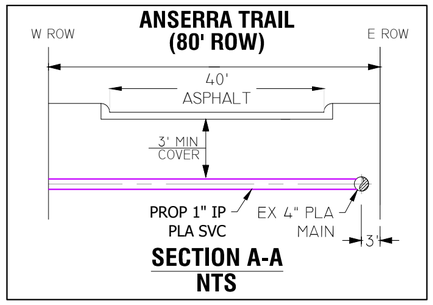
COORDINATE SERVICE LOCATION WITH CYNTHIA MESHELL AT 281-561-6016

INSPECTOR: VICENTE HERNANDEZ (346-762-9126)

PERMITS REQUIRED FOR CONSTRUCTION

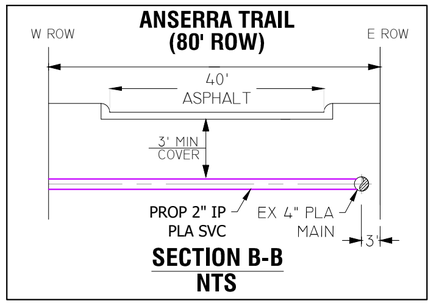
- ☐ NO PERMITS REQUIRED
- ☐ TXDOT
- ☐ CITY:
- ☑ COUNTY: WALLER
- ☐ FLOODCONTROL/DRAINAGE:
- ☐ RAILROAD:

WALLER COUNTY PERMIT



SECTION A-A
NTS

WALLER COUNTY PERMIT



SECTION B-B
NTS

VICINITY MAP

LEGEND

EXISTING MAIN	PROP IP PLA SVC
PROP MAG ANODE	EDGE OF PAVEMENT
PROP TRANS STATION	PROP 5# ZINC ANODE
PROP TEST POINT	PROP MARKER BALL
PROP LOCATION POINT	PROP LINE MARKER

GENERAL NOTES:

1. FIELD VERIFY & LOCATE ALL EXISTING FEEDS, MAINS & SERVICES.
2. MAINTAIN A MINIMUM DEPTH OF 3' UNLESS OTHERWISE NOTED.
3. USE GAUGES TO MONITOR & MAINTAIN FEEDS & PRESSURE.
4. CONTACT DESIGNER (BENSON AKINGNBOYE AT 713-207-4325) WITH ANY NECESSARY FIELD CHANGES.
5. THIS PROJECT IS SUBJECT TO SEWER LATERAL INSPECTION TO VERIFY CLEARANCE, PER THE OPTIONS STATED IN THE CONSTRUCTION AND SERVICE MANUAL. ENGINEERING WAS UNABLE TO VERIFY THE CLEARANCE WITH MAPS AND RECORDS.
6. TAKE NECESSARY PRECAUTIONS WHEN CUT, CAP & REMOVING STEEL MATERIAL. ASSUME ALL TAR WRAP PIPE CONTAINS ASBESTOS AND FOLLOW CONSTRUCTION AND SERVICE MANUAL PROCEDURES (SECTION: CS-B-1-.330) FOR REMOVAL OF PIPE AND GASKETS WITH ASBESTOS CONTAINING MATERIAL OR PRESUMED ASBESTOS CONTAINING MATERIAL.
7. FOR IP PIPE TEST PRESSURE AT 100 PSIG IN ACCORDANCE WITH SECTION CS-B-1.220 OF THE CONSTRUCTION & SERVICE MANUAL. HP LINE TEST PRESSURE AND DURATION ARE AS NOTED.
8. ALL SERVICE LINES MUST HAVE AN EFV OR CURB VALVE INSTALLED IN ACCORDANCE WITH SECTION CS-FORM 1.150 OF THE CONSTRUCTION AND SERVICE MANUAL AND EFV SIZING CHART.
   •CONTACT ENGINEERING FOR ADDITIONAL SIZING RECOMMENDATIONS.
9. COORDINATE CATHODIC PROTECTION WITH THE CORROSION DEPARTMENT (VINCENT PACHECO AT 713-967-7386) AND ENSURE CP DEPARTMENT IS ON SITE DURING CONSTRUCTION TO MAKE BONDS.
10. DIMENSION ALL TIE-IN LOCATIONS FROM ESTABLISHED RIGHT OF WAYS.
11. CRITERIA TO BE USED FOR TRACER WIRE SELECTION WHEN INSTALLING PLASTIC GAS LINES:
    A. USE #14 TRACER WIRE FOR ALL RESIDENTIAL SERVICE LINES.
    B. USE #14 TRACER WIRE FOR SHORT BORES UP TO 300' AND ALL OTHER NON-BORE INSTALLATIONS.
    C. USE #10 TRACER WIRE WITH ALL BORES LONGER THAN 300'.
    D. USE #8 TRACER WIRE AS NEEDED FOR LARGE BAYOU CROSSINGS AND OTHER EXTRAORDINARY SITUATIONS AND COMPLEX BORES.
    INSPECTOR APPROVAL REQUIRED PRIOR TO WORK.

PIPE SUMMARY GENERIC

PIPE REQUIRED	
820'	1" PLA SERVICE IP - Intermediate Pressure WO#: 115050692
750'	2" PLA SERVICE IP - Intermediate Pressure WO#: 115051835
1,570'	TOTAL PIPE

DESIGNED BY: BENSON AKINGNBOYE	713-207-4325
ESTIMATED COST: $	CONTRIBUTION: $
NEED DATE: 01/31/25	COMPLETION DATE:
PURPOSE AND NECESSITY: NEW CONSTRUCTIONS TO SERVE RESDIENTIAL APARTMENT BUILDING	

DRAWN BY: AG	RECOMMENDED BY:	DATE:
DATE: 01/10/2025		
SCALE: 1:60		
SHEET: 1 OF 1	APPROVED BY:	DATE:

F:29940718	O:29880712	KM:483-C	LAMBERT:4257A3	Z:701	SZ:504	TC:030	SOG:00151

4000 ANSERRA TRAIL
KATY, TX

CenterPoint. Energy
Texas Region – Houston Gas Engineering

DWG No: **EC5-2500056**

1/10/2025 2:17:09 PM C:\USERS\00300540\CENTERPOINT ENERGY\AUD IMPLEMENTATION CORE TEAM - AUD MASTER DRAWINGS\TX\2500056\2500056_UDH_GENERATED.DWG

DRAFTER: AG 01/10/25
CKR: HE 01/10/25
ENGR:

RUSH PRIORITY

- PRIORITY 1 ☑
- PRIORITY 2 ☐
- NORMAL ☐

GAS SERVICE COORDINATOR:

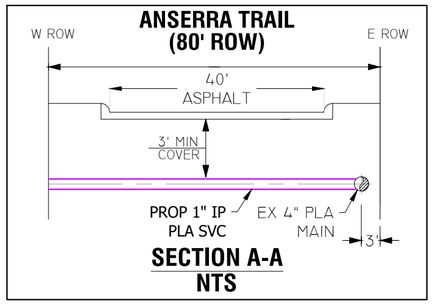
COORDINATE SERVICE LOCATION WITH CYNTHIA MESHELL AT 281-561-6016

INSPECTOR: VICENTE HERNANDEZ (346-762-9126)

PERMITS REQUIRED FOR CONSTRUCTION

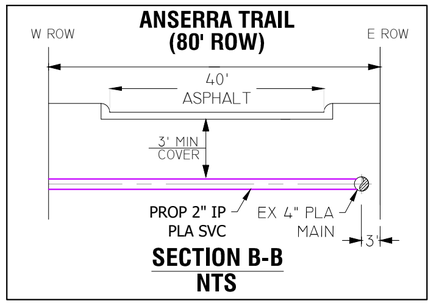
- ☐ NO PERMITS REQUIRED
- ☐ TXDOT
- ☐ CITY:
- ☑ COUNTY: WALLER
- ☐ FLOODCONTROL/DRAINAGE:
- ☐ RAILROAD:

WALLER COUNTY PERMIT



SECTION A-A
NTS

WALLER COUNTY PERMIT



SECTION B-B
NTS

VICINITY MAP

LEGEND

EXISTING MAIN	PROP IP PLA SVC
PROP MAG ANODE	EDGE OF PAVEMENT
PROP TRANS STATION	PROP 5# ZINC ANODE
PROP TEST POINT	PROP MARKER BALL
PROP LOCATION POINT	PROP LINE MARKER

GENERAL NOTES:

1. FIELD VERIFY & LOCATE ALL EXISTING FEEDS, MAINS & SERVICES.
2. MAINTAIN A MINIMUM DEPTH OF 3' UNLESS OTHERWISE NOTED.
3. USE GAUGES TO MONITOR & MAINTAIN FEEDS & PRESSURE.
4. CONTACT DESIGNER (BENSON AKINGNBOYE AT 713-207-4325) WITH ANY NECESSARY FIELD CHANGES.
5. THIS PROJECT IS SUBJECT TO SEWER LATERAL INSPECTION TO VERIFY CLEARANCE, PER THE OPTIONS STATED IN THE CONSTRUCTION AND SERVICE MANUAL. ENGINEERING WAS UNABLE TO VERIFY THE CLEARANCE WITH MAPS AND RECORDS.
6. TAKE NECESSARY PRECAUTIONS WHEN CUT, CAP & REMOVING STEEL MATERIAL. ASSUME ALL TAR WRAP PIPE CONTAINS ASBESTOS AND FOLLOW CONSTRUCTION AND SERVICE MANUAL PROCEDURES (SECTION: CS-B-1-.330) FOR REMOVAL OF PIPE AND GASKETS WITH ASBESTOS CONTAINING MATERIAL OR PRESUMED ASBESTOS CONTAINING MATERIAL.
7. FOR IP PIPE TEST PRESSURE AT 100 PSIG IN ACCORDANCE WITH SECTION CS-B-1.220 OF THE CONSTRUCTION & SERVICE MANUAL. HP LINE TEST PRESSURE AND DURATION ARE AS NOTED.
8. ALL SERVICE LINES MUST HAVE AN EFV OR CURB VALVE INSTALLED IN ACCORDANCE WITH SECTION CS-FORM 1.150 OF THE CONSTRUCTION AND SERVICE MANUAL AND EFV SIZING CHART.
   •CONTACT ENGINEERING FOR ADDITIONAL SIZING RECOMMENDATIONS.
9. COORDINATE CATHODIC PROTECTION WITH THE CORROSION DEPARTMENT (VINCENT PACHECO AT 713-967-7386) AND ENSURE CP DEPARTMENT IS ON SITE DURING CONSTRUCTION TO MAKE BONDS.
10. DIMENSION ALL TIE-IN LOCATIONS FROM ESTABLISHED RIGHT OF WAYS.
11. CRITERIA TO BE USED FOR TRACER WIRE SELECTION WHEN INSTALLING PLASTIC GAS LINES:
    A. USE #14 TRACER WIRE FOR ALL RESIDENTIAL SERVICE LINES.
    B. USE #14 TRACER WIRE FOR SHORT BORES UP TO 300' AND ALL OTHER NON-BORE INSTALLATIONS.
    C. USE #10 TRACER WIRE WITH ALL BORES LONGER THAN 300'.
    D. USE #8 TRACER WIRE AS NEEDED FOR LARGE BAYOU CROSSINGS AND OTHER EXTRAORDINARY SITUATIONS AND COMPLEX BORES.
    INSPECTOR APPROVAL REQUIRED PRIOR TO WORK.

PIPE SUMMARY GENERIC

PIPE REQUIRED	
820'	1" PLA SERVICE IP - Intermediate Pressure WO#: 115050692
750'	2" PLA SERVICE IP - Intermediate Pressure WO#: 115051835
1,570'	TOTAL PIPE

DESIGNED BY: BENSON AKINGNBOYE	713-207-4325
ESTIMATED COST: $	CONTRIBUTION: $
NEED DATE: 01/31/25	COMPLETION DATE:
PURPOSE AND NECESSITY: NEW CONSTRUCTIONS TO SERVE RESDIENTIAL APARTMENT BUILDING	

DRAWN BY: AG	RECOMMENDED BY:	DATE:
DATE: 01/10/2025		
SCALE: 1:60		
SHEET: 1 OF 1	APPROVED BY:	DATE:

F:29940718	O:29880712	KM:483-C	LAMBERT:4257A3	Z:701	SZ:504	TC:030	SOG:00151

4000 ANSERRA TRAIL
KATY, TX

CenterPoint. Energy
Texas Region – Houston Gas Engineering

DWG No: **EC5-2500056**

1/10/2025 2:17:09 PM C:\USERS\00300540\CENTERPOINT ENERGY\AUD IMPLEMENTATION CORE TEAM - AUD MASTER DRAWINGS\TX\2500056\2500056_UDH_GENERATED.DWG

MJSHERI01C SBURGENER

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 3/13/2025

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER INSURICA 1501 Mart Dr Little Rock, AR 72202	CONTACT NAME: Sherry L Burgener, CIC, CRM, AU, AAM PHONE (A/C, No, Ext): (501) 819-3201 FAX (A/C, No): (501) 666-7168 E-MAIL ADDRESS: Sherry.Burgener@INSURICA.com
INSURED M.J. Sheridan of Texas, Inc. 7935 Harms Road Houston, TX 77041	INSURER(S) AFFORDING COVERAGE — NAIC # INSURER A : National Fire Insurance Co. of Hartford — 20478 INSURER B : Transportation Insurance Company — 20494 INSURER C : Valley Forge Insurance Company — 20508 INSURER D : INSURER E : INSURER F :

COVERAGES **CERTIFICATE NUMBER:** **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	X COMMERCIAL GENERAL LIABILITY			7014908725	5/31/2024	5/31/2025	EACH OCCURRENCE	$ 1,000,000
	CLAIMS-MADE X OCCUR						DAMAGE TO RENTED PREMISES (Ea occurrence)	$ 100,000
							MED EXP (Any one person)	$ 5,000
							PERSONAL & ADV INJURY	$ 1,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER:						GENERAL AGGREGATE	$ 2,000,000
	POLICY X PRO-JECT LOC						PRODUCTS - COMP/OP AGG	$ 2,000,000
	OTHER:							$
B	AUTOMOBILE LIABILITY			7014908739	5/31/2024	5/31/2025	COMBINED SINGLE LIMIT (Ea accident)	$ 1,000,000
	X ANY AUTO						BODILY INJURY (Per person)	$
	OWNED AUTOS ONLY / SCHEDULED AUTOS						BODILY INJURY (Per accident)	$
	HIRED AUTOS ONLY / NON-OWNED AUTOS ONLY						PROPERTY DAMAGE (Per accident)	$
								$
	UMBRELLA LIAB OCCUR						EACH OCCURRENCE	$
	EXCESS LIAB CLAIMS-MADE						AGGREGATE	$
	DED RETENTION $							$
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY	N / A		7014908742	5/31/2024	5/31/2025	X PER STATUTE OTH-ER	
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) Y / N: N						E.L. EACH ACCIDENT	$ 1,000,000
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - EA EMPLOYEE	$ 1,000,000
							E.L. DISEASE - POLICY LIMIT	$ 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
Certificate Holder is named as an additional insured with respects to General Liability as required by written contract.

CERTIFICATE HOLDER

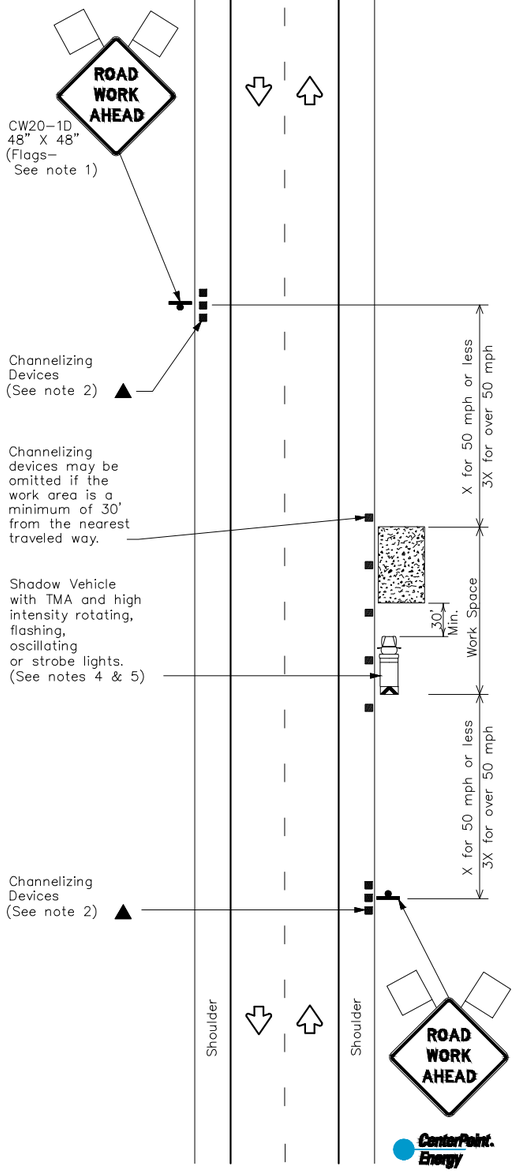
Waller County Road & Bridge Department
775 Business 290 East
Hempstead, TX 77445

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

DATE:
FILE:

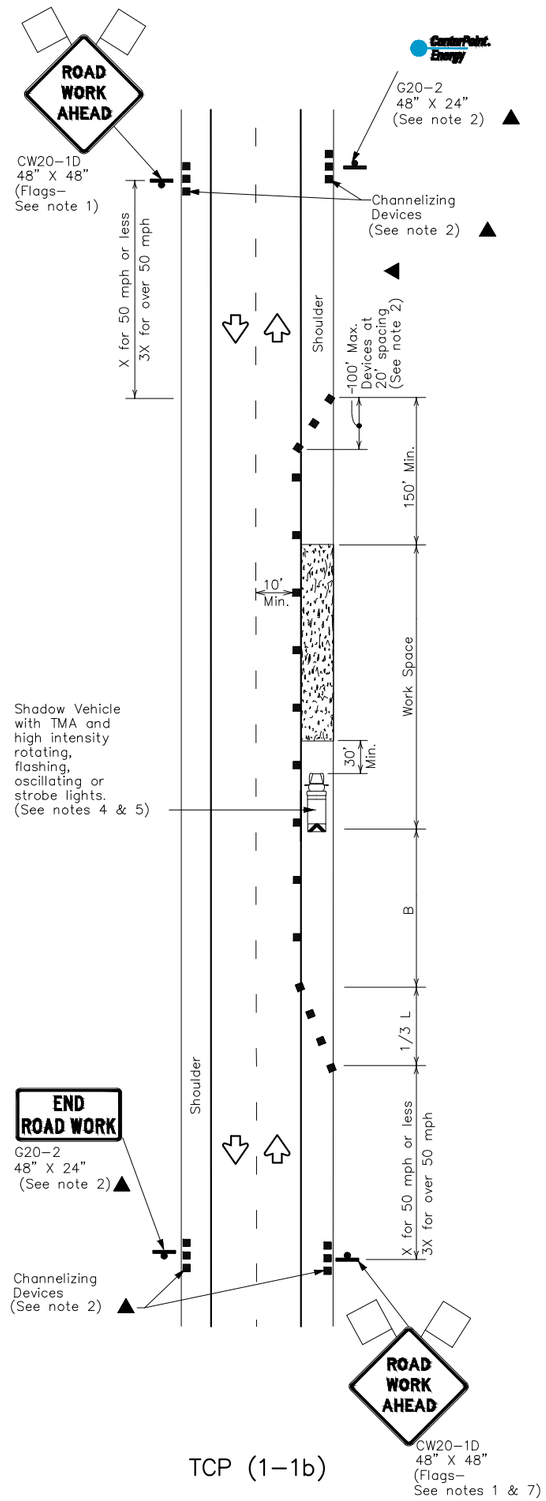


Near 4000 Anserra Trail

TCP (1–1a)

WORK SPACE NEAR SHOULDER

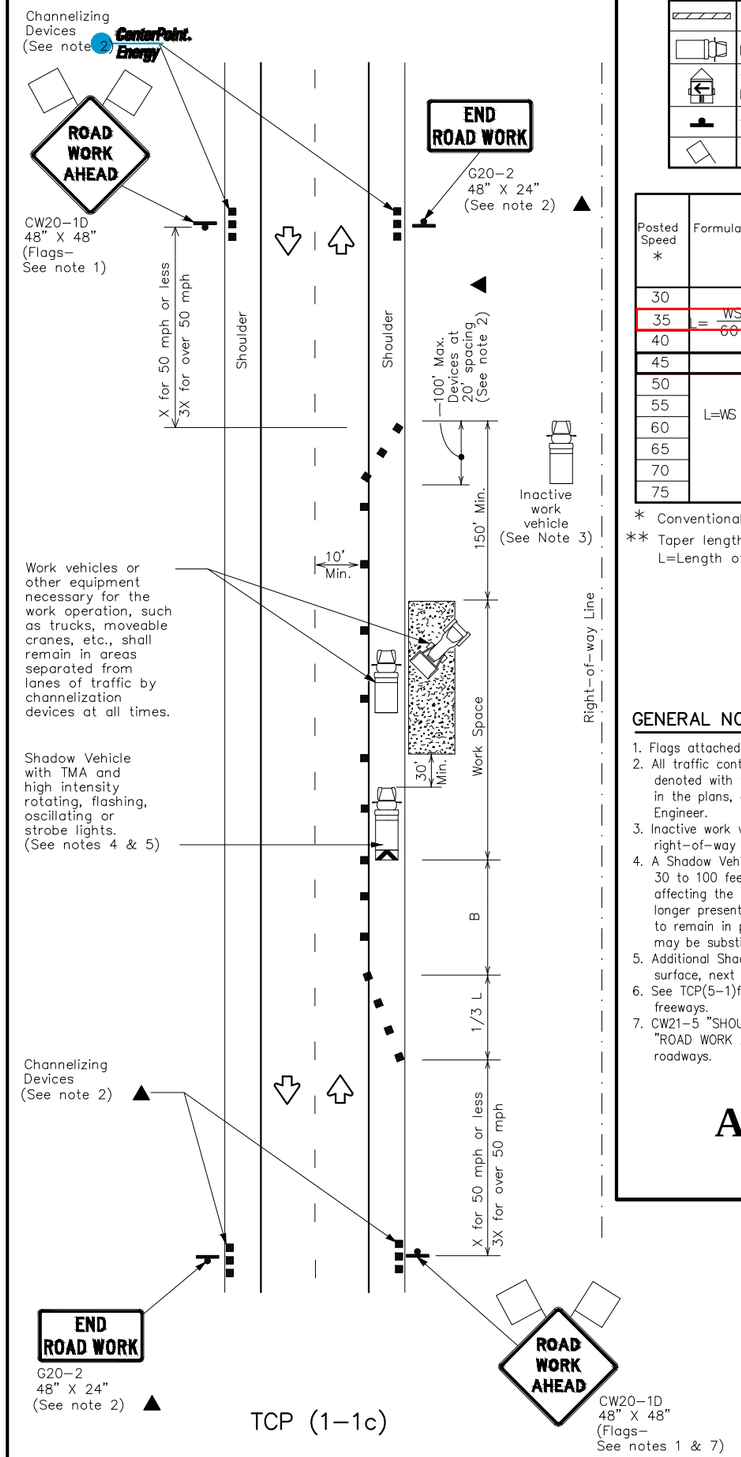
Conventional Roads



TCP (1–1b)

WORK SPACE ON SHOULDER

Conventional Roads



TCP (1–1c)

WORK VEHICLES ON SHOULDER

Conventional Roads

LEGEND			
	Type 3 Barricade		Channelizing Devices
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)
	Trailer Mounted Flashing Arrow Board	M	Portable Changeable Message Sign (PCMS)
	Sign		Traffic Flow
	Flag		Flagger

Posted Speed *	Formula	Minimum Desirable Taper Lengths ** 10' Offset	11' Offset	12' Offset	Suggested Maximum Spacing of Channelizing Devices: On a Taper	On a Tangent	Minimum Sign Spacing "X" Distance	Suggested Longitudinal Buffer Space "B"
30	$L=\frac{WS^2}{60}$	150'	165'	180'	30'	60'	120'	90'
35		205'	225'	245'	35'	70'	160'	120'
40		265'	295'	320'	40'	80'	240'	155'
45		450'	495'	540'	45'	90'	320'	195'
50	L=WS	500'	550'	600'	50'	100'	400'	240'
55		550'	605'	660'	55'	110'	500'	295'
60		600'	660'	720'	60'	120'	600'	350'
65		650'	715'	780'	65'	130'	700'	410'
70		700'	770'	840'	70'	140'	800'	475'
75		750'	825'	900'	75'	150'	900'	540'

* Conventional Roads Only

** Taper lengths have been rounded off.
L=Length of Taper(FT) W=Width of Offset(FT) S=Posted Speed(MPH)

GENERAL NOTES

1. Flags attached to signs where shown are REQUIRED.
2. All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans, or for routine maintenance work, when approved by the Engineer.
3. Inactive work vehicles or other equipment should be parked near the right–of–way line and not parked on the paved shoulder.
4. A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
5. Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect wider work spaces.
6. See TCP(5–1)for shoulder work on divided highways, expressways and freeways.
7. CW21–5 "SHOULDER WORK" signs may be used in place of CW20–1D "ROAD WORK AHEAD " signs for shoulder work on conventional roadways.

ANSERRA TRAIL

Texas Department of Transportation

Traffic Operations Division Standard

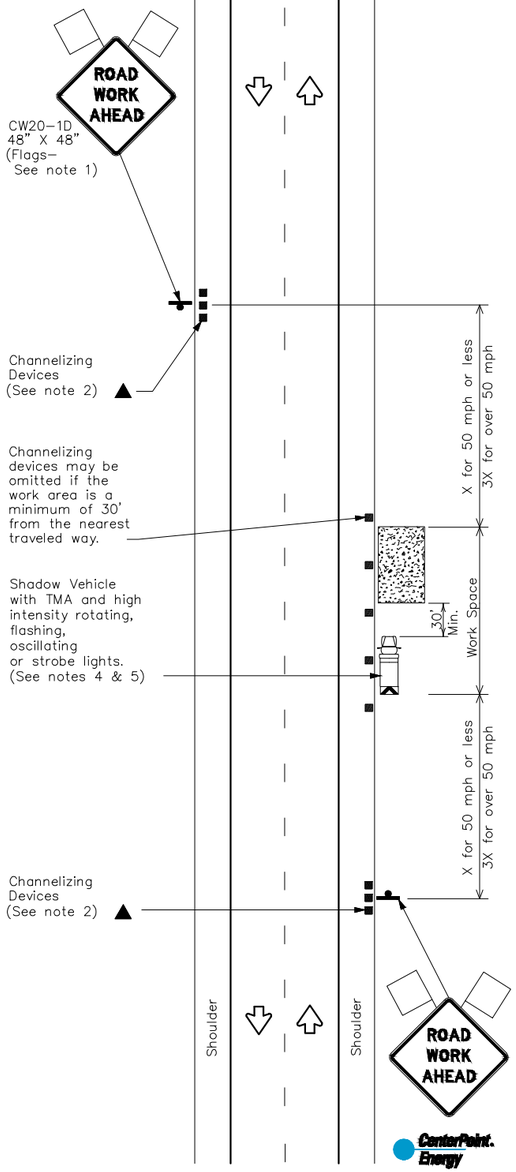
TRAFFIC CONTROL PLAN CONVENTIONAL ROAD SHOULDER WORK

TCP(1–1)–18

FILE: tcp1-1-18.dgn	DN:	CK:	DW:	CK:
©TxDOT December 1985	CONT	SECT	JOB	HIGHWAY
REVISIONS 2-94 4-98 8-95 2-12 1-97 2-18	DIST	COUNTY		SHEET NO.

151

DATE:
FILE:

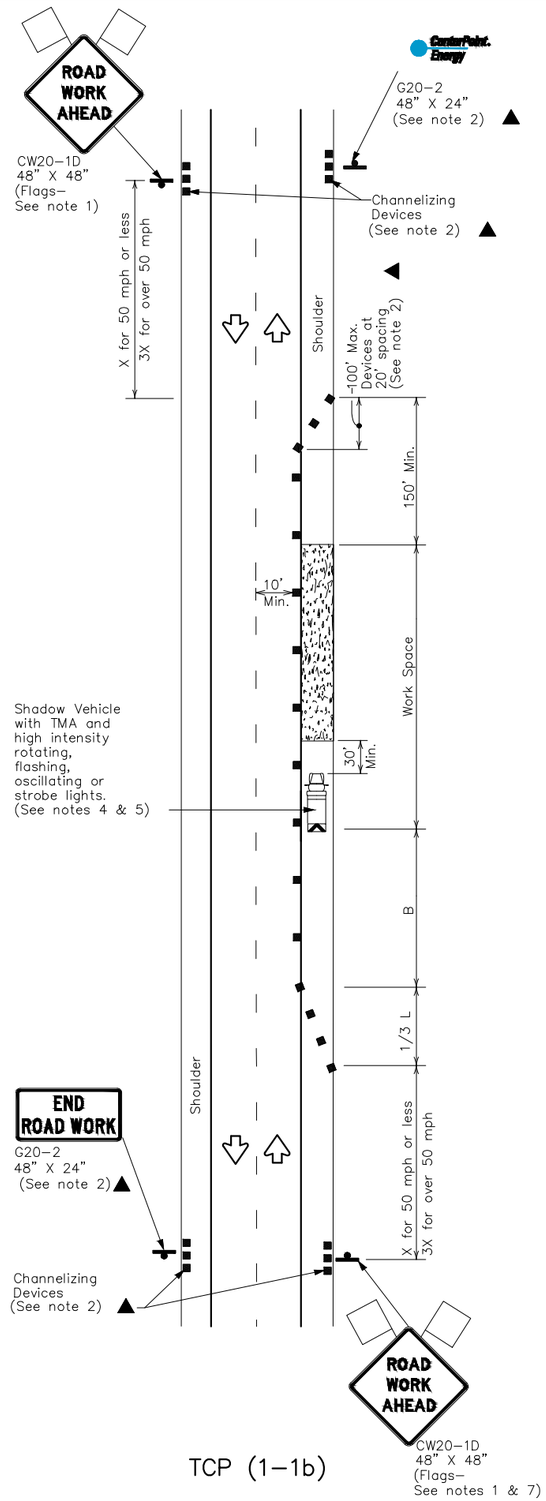


Near 4000 Anserra Trail

TCP (1–1a)

WORK SPACE NEAR SHOULDER

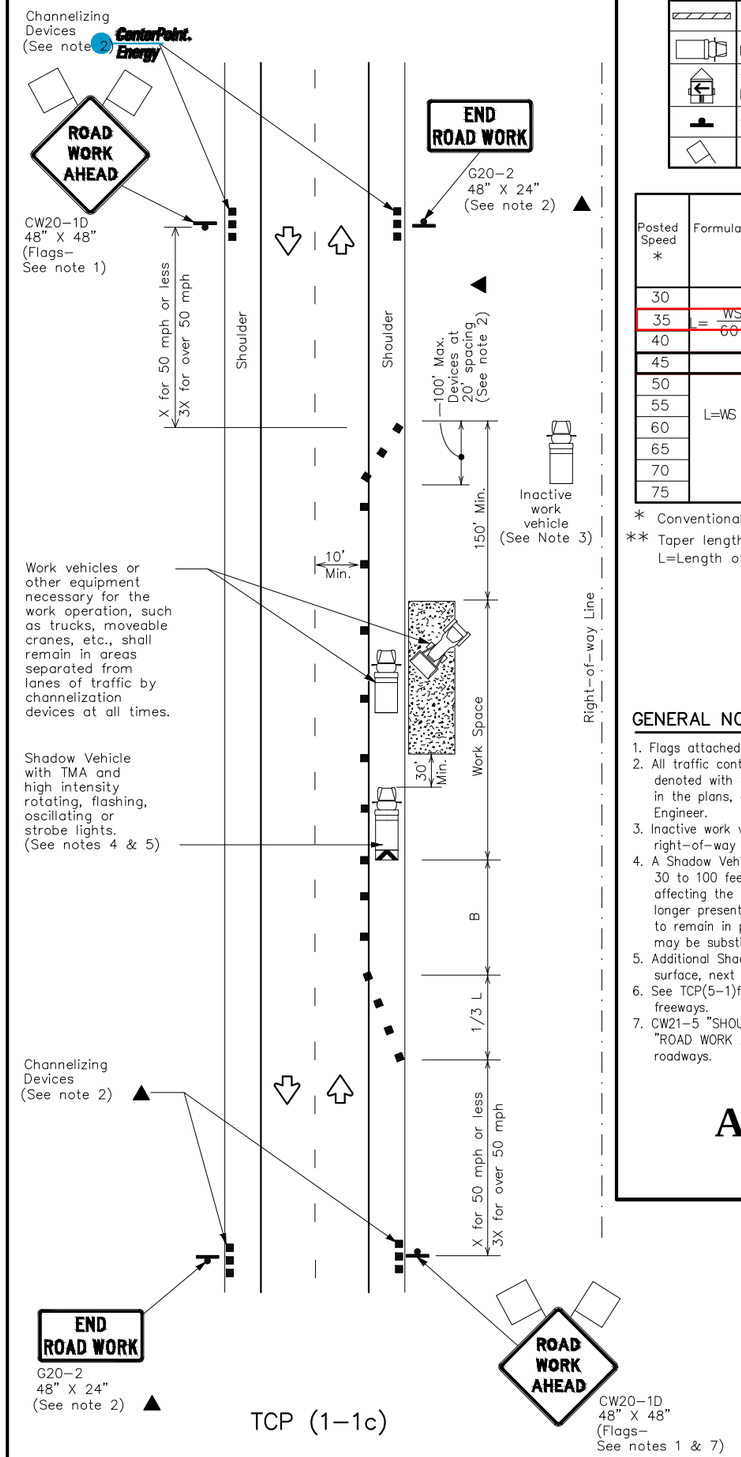
Conventional Roads



TCP (1–1b)

WORK SPACE ON SHOULDER

Conventional Roads



TCP (1–1c)

WORK VEHICLES ON SHOULDER

Conventional Roads

LEGEND			
	Type 3 Barricade		Channelizing Devices
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)
	Trailer Mounted Flashing Arrow Board	M	Portable Changeable Message Sign (PCMS)
	Sign		Traffic Flow
	Flag		Flagger

Posted Speed *	Formula	Minimum Desirable Taper Lengths ** 10' Offset	11' Offset	12' Offset	Suggested Maximum Spacing of Channelizing Devices: On a Taper	On a Tangent	Minimum Sign Spacing "X" Distance	Suggested Longitudinal Buffer Space "B"
30	$L=\frac{WS^2}{60}$	150'	165'	180'	30'	60'	120'	90'
35		205'	225'	245'	35'	70'	160'	120'
40		265'	295'	320'	40'	80'	240'	155'
45		450'	495'	540'	45'	90'	320'	195'
50	L=WS	500'	550'	600'	50'	100'	400'	240'
55		550'	605'	660'	55'	110'	500'	295'
60		600'	660'	720'	60'	120'	600'	350'
65		650'	715'	780'	65'	130'	700'	410'
70		700'	770'	840'	70'	140'	800'	475'
75		750'	825'	900'	75'	150'	900'	540'

* Conventional Roads Only

** Taper lengths have been rounded off.
L=Length of Taper(FT) W=Width of Offset(FT) S=Posted Speed(MPH)

GENERAL NOTES

1. Flags attached to signs where shown are REQUIRED.
2. All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans, or for routine maintenance work, when approved by the Engineer.
3. Inactive work vehicles or other equipment should be parked near the right–of–way line and not parked on the paved shoulder.
4. A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
5. Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect wider work spaces.
6. See TCP(5–1)for shoulder work on divided highways, expressways and freeways.
7. CW21–5 "SHOULDER WORK" signs may be used in place of CW20–1D "ROAD WORK AHEAD " signs for shoulder work on conventional roadways.

ANSERRA TRAIL

Texas Department of Transportation

Traffic Operations Division Standard

TRAFFIC CONTROL PLAN CONVENTIONAL ROAD SHOULDER WORK

TCP(1–1)–18

FILE: tcp1-1-18.dgn	DN:	CK:	DW:	CK:
©TxDOT December 1985	CONT	SECT	JOB	HIGHWAY
REVISIONS 2-94 4-98 8-95 2-12 1-97 2-18	DIST	COUNTY		SHEET NO.

151