



ADDENDUM NUMBER ONE

DATE: October 16, 2012

OWNER: City of Wildwood, Missouri
183 Plaza Drive
Wildwood, Missouri 63040

SUBJECT: Addendum Number One to
Manchester Road Streetscape Project Phase 2
Federal Project No. STP-5401(662)
Cochran Project No. SC10-229

This Addendum forms a part of the Bidding and Contract Documents and modifies the original Bidding Documents.
FAILURE TO ACKNOWLEDGE RECEIPT OF ADDENDUM MAY SUBJECT BIDDER TO DISQUALIFICATION.

ITEM:

1. **REPLACE:** In the Project Manual, Pages IB-9, IB-10, IB-11 & IB-12, **BID FORM PROPOSAL**, with the enclosed **REVISED BID FORM PROPOSAL**, pages **IB-9, IB-10, IB-11 and IB-12**.
2. **REPLACE:** In the plans, Sheet **Q-1**, with the enclosed **REVISED Q-1** revision date 10/16/12.
3. **CLARIFICATION:** This project involves a 2" Mill and Overlay. All notes on the plans shown as "New 2" Asphalt Overlay (BP-1)" should say "New 2" Mill and Overlay (BP-1)"
4. **REPLACE:** In the Project Manual, the ADA Post Inspection Checklist, pages JSP-3 through JSP-8 with the attached ADA Checklist dated August 30, 2012.
5. **CLARIFICATION:** As-Built Drawings must be provided to the City once the work is complete. The storm sewer as-built drawings must meet the Metropolitan St. Louis Sewer District requirements.
6. **CLARIFICATION:** On plan sheet ST-2, Storm Line 4 notes that the Contractor is to relocate the existing gas line. Laclede Gas will be responsible for moving all gas line conflicts. A copy of the Laclede Gas relocation plan has been included for informational purposes. Delays due to gas line conflicts are addressed in the Job Special Provisions.
7. **CLARIFICATION:** Storm Line 4 on plan sheet ST-2 also notes that the existing force main is to be located by the contractor. This work shall be considered incidental to the construction of the storm line.

ATTACHMENTS: Revised Bid Form Proposal Sheets, **IB-9, IB-10, IB-11, IB-12**
Revised Quantity Sheet, **Q-1**
ADA Checklist Revised August 30, 2012
Laclede Gas Relocation Plan

END ADDENDUM NO. 1

ARTICLE 10

REVISED BID FORM PROPOSAL

PROJECT NAME: Manchester Road Streetscape – Phase 2 BID TIME _____

PROJECT LOCATION: Wildwood, Missouri BID DATE _____

BIDDER NAME _____

TO: City of Wildwood, Missouri (“City”)

In response to the Invitation for Bids for Project No. STP-5401(662), and in accordance with the Instructions to Bidders and other Bidding Documents, the undersigned Bidder declares that he has had an opportunity to examine the site of the Work and has carefully examined the Contract Documents therefore, including the Addenda identified below, and on the basis thereof, and being fully familiar with the local conditions affecting the Work, and upon written notice of award of contract, acknowledges and agrees to provide all labor, material, equipment, tools, management and supervision, safety and technical services, insurance, bonds and incidentals necessary or required for the faithful performance of the Contract Work in accordance with the above-referenced documents in a safe, timely and workmanlike manner for the following itemized Bid:

BASE BID: _____ Dollars
(Amount in Words)

(\$ _____)

ACCEPTANCE FOR PROVISION FOR ASPHALT CEMENT PRICE INDEX Bidders have the option to accept the provision for Asphalt Cement Price Index for this project. The Bidder must mark the box below if they choose to accept the provision. No price adjustments will be made, due to asphalt price changes, for Bidders who do not accept this provision.

Asphalt Cement

The Base Bid amount is more fully itemized as follows:

REVISED ITEMIZED BID FORM

Bid No.	Description	Unit	Quantity	Unit Cost	Extended Cost	DBE Item *
1500.1	Mobilization	LS	1			
1500.2	Channelizers (Trimline)	EA	100			
2000.1	Clearing, Grubbing and Stripping	AC	0.73			
2200.1	Removal of Improvements	LS	1			
2200.2	Relocate Irrigation System	EA	1			
2200.3	Pavement Milling	SY	10,920			
2300.1	Earthwork	STA	27.22			
2300.2	Full Depth Pavement	SY	376			
2300.3	MoDOT Type 2 Ditch Liner with Geotextile Fabric	CY	32			
2300.4	Rock Excavation	CY	500			
2350.1	Silt Fence	LF	6,100			
2350.2	Inlet Check	EA	23			
4000.1	Asphalt Pavement (BP-1) (Surface Course) (2") (Echelon Paving)	TON	1,271			
4000.2	Asphalt Driveway, 5" (BP-2)	SF	1,365			
5000.1	Concrete Pavement, 8"	SF	2,955			
5000.2	Concrete Pavement, 8" (Stamped and Tinted Red)	SF	2,373			
5000.3	Concrete Island (6")	SF	1,432			
5000.4	Concrete Approach, 7"	SF	1,640			
5000.5	Concrete Vertical Curb	LF	4,377			
5000.6	Utility Cut Road Repair	LF	442			
				Sub-total Roadway Items		
1500.3	"Road Work Ahead" Sign (W20-1)	EA	10			
1500.4	"Shoulder Work Ahead" Sign (W21-5)	EA	4			
1500.5	"End Road Work" Sign (G20-2)	EA	10			
1500.6	Portable Traffic Signal (Contractor Retained)	EA	2			
1600.1	Changeable Message Sign (Contractor Retained)	EA	2			
3200.1	"Bike" Sign (W11-1)	EA	2			
3200.2	"Share the Road" Signs (W16-1)	EA	2			
3200.3	"Crosswalk" Sign (W11-2)	EA	2			
3200.4	"Diagonal Downward Arrow" Sign (W16-7p)	EA	2			
3200.5	"Begin Right Turn Lane Yield to Bikes" Sign (R4-4)	EA	1			
5800.1	Pedestrian Signal Assembly	EA	6			
6000.1	Pavement Marking 4" - White & Yellow	LF	9,969			
6000.2	Pavement Marking 12" - White	LF	1,083			
6000.3	Pavement Marking 24" - White	LF	195			
6000.4	Pavement Marking Turn Arrow - White	EA	7			
6000.5	Pavement Marking Yield Symbol	EA	28			
6000.6	Pavement Marking Bike Lane Symbol	EA	13			
6000.7	Pavement Marking Shared Lane Symbol	EA	2			
				Sub-total Signing/Striping/Signals Items		

***Contractor is required to indicate with a _____ which line items will be performed by the DBE(s).**

ITEMIZED BID FORM (CONTINUED)

Bid No.	Description	Unit	Quantity	Unit Cost	Extended Cost	DBE Item *
5000.7	Concrete Sidewalk	SF	31,069			
5000.8	Detectable Warning Devices	SF	298			
Sub-total Bicycle/Pedestrian Facility Items						
3000.1	Storm Sewer (15" Class III RCP)	LF	110			
3000.2	Storm Sewer (18" Class III RCP)	LF	635			
3000.3	Storm Sewer (27" Class III RCP)	LF	12			
3000.4	Storm Sewer (30" Class III RCP)	LF	120			
3000.5	Storm Sewer (36" Class III RCP)	LF	19			
3000.6	Storm Sewer (6' x 5' Precast Concrete Box Culvert)	LF	95			
3000.7	Flared End Section (15" Class III RCP)	EA	2			
3000.8	Flared End Section (18" Class III RCP)	EA	1			
3000.9	Hydrodynamic Separator	EA	1			
3000.10	Sidewalk Bridge	EA	10			
3000.11	Storm Sewer Structure (Concrete Vault)	EA	1			
3000.12	Storm Sewer Structure (Grated Curb Inlet)	EA	4			
3000.13	Storm Sewer Structure (Manhole)	EA	3			
3000.14	Storm Sewer Structure (Curb Inlet)	EA	1			
3000.15	Storm Sewer Structure (Double Area Inlet)	EA	1			
3000.16	Storm Sewer Structure (Area Inlet)	EA	1			
3000.17	Storm Sewer Manhole Lid and Frame	EA	2			
3000.18	Concrete Headwall	CY	59			
3300.1	Bioretention Basin	SF	4,310			
3300.2	Rock Berm with Geotextile Fabric	LF	55			
3900.1	Rebuild Structures	VF	10			
Sub-total Utility Items						
5900.1	Street Light Assembly	EA	26			
5900.2	Underground Cable in Conduit, 1 1/2"	LF	4,200			
5900.3	Underground Cable in Conduit, 2"	LF	55			
5900.4	Hand Hole	EA	10			
5900.5	Load Center	EA	1			
8000.1	Street Trees - Flame Amur Maple (2" Caliber)	EA	77			
8000.2	Street Trees - American Hornbeam (3" Caliber)	EA	3			
8000.3	Prairie Dropseed (1 gallon)	EA	171			
8000.4	Orange Coneflower (1 gallon)	EA	171			
8000.5	Palm Sedge (1 gallon)	EA	300			
8000.6	Slender Mountain Mint (1 gallon)	EA	181			
8000.7	Blue Lobelia (1 gallon)	EA	515			
8000.8	Winterberry Holly (male)	EA	3			
8000.9	Winterberry Holly (female)	EA	4			
8000.10	Tree Grates	EA	77			
8000.11	Mulch	CY	27			
9000.1	Sodding	SY	5,500			
Sub-total Landscaping/Streetscaping Items						
Project Total =						

Contractor is required to indicate with a "" which line items will be performed by the DBE(s).

By submitting this Bid, the Bidder agrees to waive any claim it has or may have against the City or Engineer, and their respective employees, arising out of or in connection with the administration, evaluation or recommendation of any bid(s).

Addenda

The undersigned Bidder acknowledges the following Addenda. **If there are no Addenda write “None” in the space provided:**

Addendum No.: ___ dated _____ pages _____

Addendum No.: ___ dated _____ pages _____

Addendum No.: ___ dated _____ pages _____

Acknowledgements

Bidder understands that City reserves the right to reject any and all Bids and to waive any informality in the Bidding.

The Bidder agrees that this Bid shall be valid and may not be withdrawn for a period of ninety (90) days after the scheduled closing time for receiving bids.

Within five (5) working days after receipt of written notice of award of contract, Bidder will execute and deliver to the City the formal City-Contractor Agreement included in the Bid Package, and deliver to the City the surety bond or bonds as required by the Contract Documents.

The Bid Security attached hereto, in the sum of _____ Dollars (\$_____) shall become the property of the City in the event that the City-Contractor Agreement and the Bond(s) are not executed and delivered to the City within the time set forth above, as liquidated damages (and not as a penalty) for the delay and additional expense to the City caused thereby.

(Signature)

(Print Name)

(Company Name)

(Address)

(Telephone Number)

(Seal - If Bid by Corporation)

QUANTITY SHEET

Bid No.	Description	From STA	To STA	Unit	Quantity
ROADWAY ITEMS					
1500.1	Mobilization	11+24	38+46	LS	1
1500.2	Channelizers (Trimline)	11+24	38+46	EA	100
2000.1	Clearing, Grubbing and Stripping	11+24	38+46	AC	0.73
2200.1	Removal of Improvements	11+24	38+46	LS	1
2200.2	Relocate Irrigation System	26+86	26+86	EA	1
2200.3	Pavement Milling	17+00.54	38+46.12	SY	10,920
2300.1	Earthwork	11+24	38+46	STA	27.22
2300.2	Full Depth Pavement	22+37	37+45	SY	376
2300.3	MoDOT Type 2 Ditch Liner with Geotextile Fabric	18+91	31+49	CY	32
2300.4	Rock Excavation	11+24	38+46	CY	500
2350.1	Silt Fence	11+24	38+46	LF	6,100
2350.2	Inlet Check	17+35	37+77	EA	23
4000.1	Asphalt Pavement (BP-1) (Surface Course) (2") (Echelon Paving)	17+01	38+46	TON	1,271
4000.2	Asphalt Driveway, 5" (BP-2)	14+30	23+49	SF	1,365
5000.1	Concrete Pavement, 8"	21+62	30+73	SF	2,955
5000.2	Concrete Pavement, 8" (Stamped and Tinted Red)	30+16	30+93	SF	2,373
5000.3	Concrete Island (6")	17+55	18+65	SF	1,432
5000.4	Concrete Approach, 7"	14+07	36+87	SF	1,640
5000.5	Concrete Vertical Curb	17+01	38+46	LF	4,377
5000.6	Utility Cut Road Repair	23+25	37+74	LF	442
SIGNING/STRIPING/SIGNALS ITEMS					
1500.3	"Road Work Ahead" Sign (W20-1)	11+24	38+46	EA	10
1500.4	"Shoulder Work Ahead" Sign (W21-5)	11+24	38+46	EA	4
1500.5	"End Road Work" Sign (G20-2)	11+24	38+46	EA	10
1500.6	Portable Traffic Signal (Contractor Retained)	11+24	38+46	EA	2
1600.1	Changeable Message Sign (Contractor Retained)	11+24	38+46	EA	2
3200.1	"Bike" Sign (W11-1)	15+26	34+71	EA	2
3200.2	"Share the Road" Signs (W16-1)	15+26	34+71	EA	2
3200.3	"Crosswalk" Sign (W11-2)	30+03	31+09	EA	2
3200.4	"Diagonal Downward Arrow" Sign (W16-7p)	30+03	31+09	EA	2
3200.5	"Begin Right Turn Lane Yield to Bikes" Sign (R4-4)	20+90	20+90	EA	1
5800.1	Pedestrian Signal Assembly	17+81	18+39	EA	6
6000.1	Pavement Marking 4" - White & Yellow	17+01	38+46	LF	9,969
6000.2	Pavement Marking 12" - White	17+48	37+53	LF	1,083
6000.3	Pavement Marking 24" - White	17+54	37+46	LF	195
6000.4	Pavement Marking Turn Arrow - White	17+27	19+73	EA	7
6000.5	Pavement Marking Yield Symbol	17+63	18+80	EA	28
6000.6	Pavement Marking Bike Lane Symbol	18+50	38+46	EA	13
6000.7	Pavement Marking Shared Lane Symbol	17+00	19+25	EA	2
BICYCLE/PEDESTRIAN FACILITY ITEMS					
5000.7	Concrete Sidewalk	11+24	38+46	SF	31,069
5000.8	Detectable Warning Devices	17+49	37+55	SF	298

Bid No.	Description	From STA	To STA	Unit	Quantity
UTILITY ITEMS					
3000.1	Storm Sewer (15" Class III RCP)	34+09	36+81	LF	110
3000.2	Storm Sewer (18" Class III RCP)	14+23	37+72	LF	635
3000.3	Storm Sewer (27" Class III RCP)	17+31	17+37	LF	12
3000.4	Storm Sewer (30" Class III RCP)	22+53	23+70	LF	120
3000.5	Storm Sewer (36" Class III RCP)	17+39	17+52	LF	19
3000.6	Storm Sewer (6' x 5' Precast Concrete Box Culvert)	22+47	23+18	LF	95
3000.7	Flared End Section (15" Class III RCP)	34+12	36+81	EA	2
3000.8	Flared End Section (18" Class III RCP)	32+59	32+59	EA	1
3000.9	Hydrodynamic Separator	33+93	33+93	EA	1
3000.10	Sidewalk Bridge	18+84	31+48	EA	10
3000.11	Storm Sewer Structure (Concrete Vault)	22+36	22+53	EA	1
3000.12	Storm Sewer Structure (Grated Curb Inlet)	34+07	36+21	EA	4
3000.13	Storm Sewer Structure (Manhole)	33+93	37+08	EA	3
3000.14	Storm Sewer Structure (Curb Inlet)	37+74	37+74	EA	1
3000.15	Storm Sewer Structure (Double Area Inlet)	17+39	17+39	EA	1
3000.16	Storm Sewer Structure (Area Inlet)	22+79	22+79	EA	1
3000.17	Storm Sewer Manhole Lid and Frame	25+03	25+81	EA	2
3000.18	Concrete Headwall	22+47	23+18	CY	59
3300.1	Bioretention Basin	17+17	31+50	SF	4,310
3300.2	Rock Berm with Geotextile Fabric	27+88	28+34	LF	55
3900.1	Rebuild Structures	11+24	38+46	VF	10
LANDSCAPING/STREETSCAPING ITEMS					
5900.1	Street Light Assembly	12+26	37+53	EA	26
5900.2	Underground Cable in Conduit, 1 1/2"	12+26	38+46	LF	4,200
5900.3	Underground Cable in Conduit, 2"	26+80	26+80	LF	55
5900.4	Hand Hole	26+80	36+18	EA	10
5900.5	Load Center	26+80	26+80	EA	1
8000.1	Street Trees - Flame Amur Maple (2" Caliber)	11+24	37+30	EA	77
8000.2	Street Trees - American Hornbeam (3" Caliber)	23+52	31+34	EA	3
8000.3	Prairie Dropseed (1 gallon)	17+17	31+34	EA	171
8000.4	Orange Coneflower (1 gallon)	17+17	31+34	EA	171
8000.5	Palm Sedge (1 gallon)	17+17	31+34	EA	300
8000.6	Slender Mountain Mint (1 gallon)	17+17	31+34	EA	181
8000.7	Blue Lobelia (1 gallon)	17+17	31+34	EA	515
8000.8	Winterberry Holly (male)	22+75	29+52	EA	3
8000.9	Winterberry Holly (female)	22+75	29+52	EA	4
8000.10	Tree Grates	11+24	37+30	EA	77
8000.11	Mulch	17+17	31+34	CY	27
9000.1	Sodding	11+24	38+46	SY	5500



314-842-4033 (tel.)
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737 RUDDER ROAD
FENTON, MISSOURI 63026

CERTIFICATE OF AUTHORITY NUMBER - 008637

Three working days prior to the start of any portion on this site, contractor shall call 1-800-DIG-RITE for utility location information.

All OSHA rules & regulations established for the type of construction required by these drawings shall be followed (ie: trenching, blasting, etc.)

MANCHESTER ROAD
STREETSCAPE PROJECT PHASE 2
WILDWOOD, MISSOURI

QUANTITY SHEET

DATE: 10/16/12

ADDENDUM NO. 1

APP'D BY: M.R.B. D.A.C.

DATE: MAY 2012

SCALE: NO SCALE

PROJ. NO: SC10-229

SHEET NO: Q-1

Drawing name: J:\SC10-229 Wildwood - Manchester Rd\QUANTITY.dwg Tab: 0-1 Plotted on: Oct 16, 2012 - 11:24am Plotted by: MSpalding

P-29156-00
Basemap: 24V1

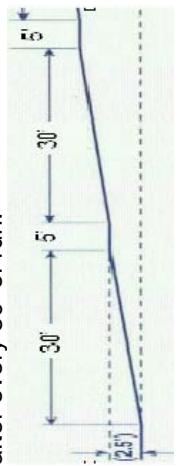


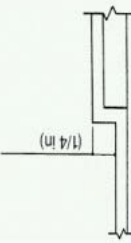
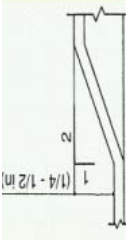

ADA CHECKLIST

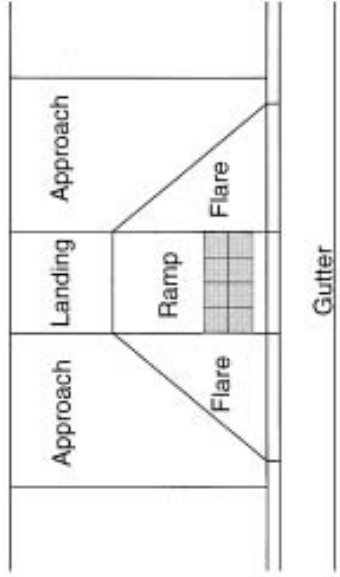
Revised August 30, 2012

Job No. _____ Route _____ County _____ Location _____

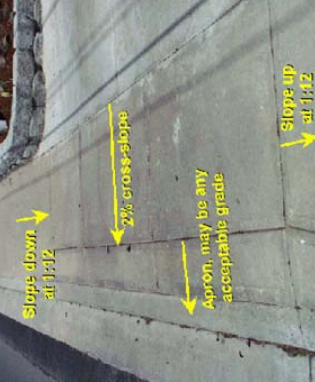
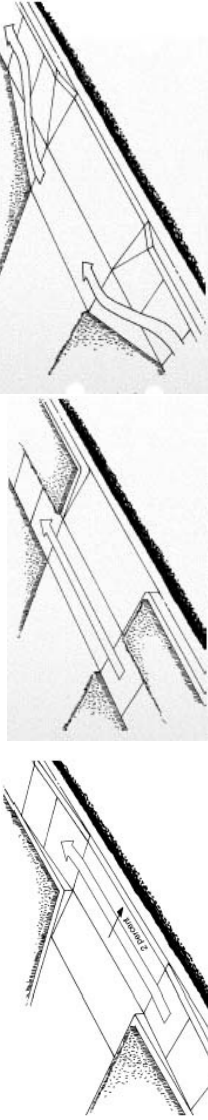
Pedestrian Access Route Requirements ¹		YES	NO	NA
Figures/Examples Sidewalk Width 	<ul style="list-style-type: none"> The minimum continuous and unobstructed clear width of a pedestrian access route shall be 4.0 feet, exclusive of the width of the curb. The continuous clear width of pedestrian access routes for medians and pedestrian refuge islands must be 5 feet minimum in order to allow for passing space. MoDOT Sidewalks shall be 5 feet wide minimum.² MoDOT Sidewalks located within 2 feet of the back of curb are to be constructed 6 feet wide minimum and constructed adjacent to the back of the curb.² Exception: an unaltered, existing sidewalk shall be 3 feet wide minimum and shall provide 5 foot x 5 foot passing spaces at intervals of 200 feet maximum.² Exception: The clear width shall be permitted to be reduced to 32 inches minimum for a length of 24 inches maximum provided that reduced width segments are separated by segments that are 48 inches long minimum and 36 inches wide minimum. Detectable warning surfaces shall be provided, where a curb ramp, landing, or blended transition connects to a street. Where commercial driveways are provided with traffic control devices or otherwise are permitted to operate like public streets, detectable warnings should be provided at the junction between the pedestrian route and the street. Gratings, access covers, and other appurtenances shall not be located on curb ramps, landings, blended transitions, and gutters within the pedestrian access route. Grade breaks shall not be permitted on the surface of curb ramps, blended transitions, landings, and gutter areas within the pedestrian access route. Surface slopes that meet at grade breaks shall be flush. Walkways in pedestrian access routes that are less than 5 feet in clear width shall provide passing spaces at intervals of 200 feet maximum. Pedestrian access routes at passing spaces shall be 5 feet wide for a distance of 5 feet. The running slope of a pedestrian access route shall be 5 percent maximum. 			
Passing Spaces	<ul style="list-style-type: none"> Roadway Grade Exception: Where pedestrian access routes are contained within a street or highway right-of-way, the grade of the pedestrian access route is permitted to equal the general grade established for the adjacent street or highway. Running Slopes shall be measured using a calibrated 2 foot long digital level. 			
Sidewalk Running Slope The grade that is parallel to the direction of travel, expressed as a ratio of rise to run or as a percent.				

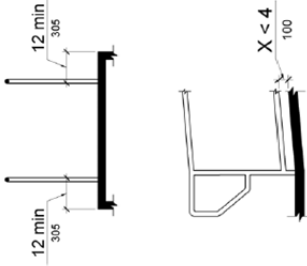
Figures/Examples	Requirements ¹	YES	NO	NA
<p>Sidewalk Cross Slope The grade that is perpendicular to the direction of accessible pedestrian travel, measured perpendicular to the curb line or edge of the street or highway, or measured perpendicular to the running grade.</p>	<ul style="list-style-type: none"> The cross slope of the walkway of a pedestrian access route shall be 2 percent maximum. 2010 ADA/ABA allows for cross slopes of up to ¼ inch per foot (2.08 percent). In either case, a cross slope measurement of 2.1 percent or greater is not ADA compliant. Cross Slopes shall be measured using a calibrated 2 foot long digital level. <p>Sidewalk Ramps For example, a ramp segment with the maximum allowed running slope of 8.33% would require 5' x 5' landing after every 30' of run.</p> 			
	<ul style="list-style-type: none"> A sidewalk segment (not contained within a street or highway border) with a running grade in excess of 5 percent but less than 8.33 percent is by definition a sidewalk ramp. The clear width of landings, blended transitions, and curb ramps, excluding flares, shall be 4.0 feet minimum. Cross slope of ramp runs shall be 2 percent maximum. The rise for any ramp run shall be 30 inches maximum. Ramps shall have landings at the top and the bottom of each ramp run. Ramp runs with a rise greater than 6 inches shall have handrails. Handrails shall be provided on both sides of stairs and ramps. Edge protection shall be provided on each side of ramp runs. Detectable warning surfaces shall be provided, where a curb ramp, landing, or blended transition connects to a street. Gratings, access covers, and other appurtenances shall not be located on ramps, landings, blended transitions, and gutters within the pedestrian access route. Grade breaks shall not be permitted on the surface of ramps, blended transitions, landings, and gutter areas within the pedestrian access route. Surface slopes that meet at grade breaks shall be flush. In existing sites, buildings, and facilities, ramps shall be permitted to have running slopes steeper than 1:12 where such slopes are necessary due to space limitations. <ul style="list-style-type: none"> a. A slope between 8.33% (1:12) and 10% (1:10) is allowed for a maximum total rise of 6 inches b. A slope between 10% (1:10) and 12.5% (1:8) is allowed for a maximum total rise of 3 inches. 			

Figures/Examples	Requirements ¹	YES	NO	NA
<p data-bbox="138 1743 170 2005">Vertical Alignment</p>   	<ul style="list-style-type: none"> • Vertical alignment shall be planar within curb ramp runs, blended transitions, landings, and gutter areas within the pedestrian access route, and within clear spaces required for accessible pedestrian signals, street furniture, and operable parts. • Grade breaks shall not be permitted on the surface of curb ramps, blended transitions, landings, and gutter areas within the pedestrian access route. • Grade breaks shall be flush. • Running Slopes and Cross Slopes shall be measured using a calibrated 2 foot long digital level. • Where the pedestrian access route crosses rail tracks at grade, the surface of the pedestrian access route shall be level and flush with the top of the rail at the outer edges of the rail. The surface between the rails shall be aligned with the top of the rail. <ul style="list-style-type: none"> • Changes in level of 1/4 inch high maximum shall be permitted to be vertical. • Changes in level between 1/4 inch high maximum and 1/2 inch high maximum shall be beveled with a slope not steeper than 1v:2h. • The bevel shall be applied across the entire level change. • Changes in level greater than 1/2 inch high shall be ramp grade or flatter, a slope of 8.33 percent or less. 			

Figures/Examples	Requirements ¹	YES	NO	NA
<p>Landing A required level space required at both ends of a ramp. An area 5' x 5' with no slope greater than 2 percent. This space can be used as a place to rest, turn or pass another user.</p> <p>Landings that are contained within a street or highway border are permitted to use the Roadway Grade Exception for running slopes or cross slopes in the direction of the roadway travel being matched.</p>	<ul style="list-style-type: none"> The landing clear width shall be at least as wide as the widest ramp run leading to the landing. The clear width of landings, blended transitions, and curb ramps, excluding flares, shall be 4 feet minimum. The landing clear length shall be 5 feet long minimum. Landing slopes shall be 2 percent maximum. Changes in level are not permitted. Detectable warning surfaces shall be provided, where a curb ramp, landing, or blended transition connects to a street. Detectable warning shall be located on the landing or blended transition at the back of curb. Gratings, access covers, and other appurtenances shall not be located on curb ramps, landings, blended transitions, and gutters within the pedestrian access route. Grade breaks shall not be permitted on the surface of curb ramps, blended transitions, landings, and gutter areas within the pedestrian access route. Surface slopes that meet at grade breaks shall be flush. Roadway Grade Exception: The grade of pedestrian access routes within sidewalks is permitted to equal the general grade established for the adjacent street or highway. The cross slope of curb ramps, blended transitions, landings, and turning spaces at pedestrian street crossings without yield or stop control where vehicles can proceed through the intersection without slowing or stopping, and at midblock pedestrian street crossings are permitted to equal the street or highway grade. Running Slopes and Cross Slopes shall be measured using a calibrated 2 foot long digital level. 			
				

Figures/Examples	Requirements ¹	YES	NO	NA
	<ul style="list-style-type: none"> • Protruding objects on sidewalks and other pedestrian circulation paths shall not reduce the clear width required for pedestrian accessible routes. • Objects with leading edges more than 27 inches and not more than 80 inches above the finish floor or ground shall protrude 4 inches maximum horizontally into the circulation path. • Free-standing objects mounted on posts or pylons shall overhang circulation paths 12 inches maximum when located 27 inches minimum and 80 inches maximum above the finish floor or ground. • Where a sign or other obstruction is mounted between posts or pylons and the clear distance between the posts or pylons is greater than 12 inches, the lowest edge of such sign or obstruction shall be 27 inches maximum or 80 inches minimum above the finish floor or ground. • Vertical clearance shall be 80 inches high minimum. Guardrails or other barriers shall be provided where the vertical clearance is less than 80 inches high. The leading edge of such guardrail or barrier shall be located 27 inches maximum above the finish floor or ground. • Guardrails or other barriers shall be provided where the vertical clearance is less than 80 inches high. The leading edge of such guardrail or barrier shall be located 27 inches maximum above the finish surface or ground. 			
	<ul style="list-style-type: none"> • Openings in floor and ground surfaces shall not allow passage of a sphere more than 1/2 inch diameter. Elongated openings shall be placed so that the long dimension is perpendicular to the dominant direction of travel. • Gratings, access covers, and other appurtenances shall not be located on curb ramps, landings, blended transitions, and gutters within the pedestrian access route. • Lift holes for manhole/utility covers shall not have an opening greater than 1/2 inch. Plugging of holes greater than 1/2 inch with a material approved by the engineer is acceptable as long as it complies with the changes in level requirements. 			

ENTRANCES				
Requirements¹		YES	NO	NA
<p>Figures/Examples</p> 	<p>Requirements¹</p> <ul style="list-style-type: none"> The minimum continuous and unobstructed clear width of a pedestrian access route provided across commercial and residential entrances shall be 4 feet minimum. Cross slope shall be 2 percent maximum. Be cautious with the transition from the driveway to the roadway to avoid grade combinations that will cause vehicles to bottom out when driving over the transition.² 			

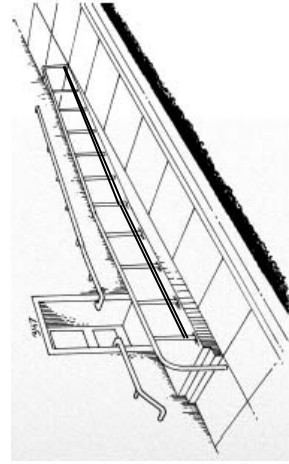
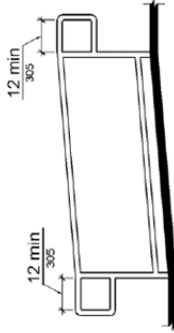
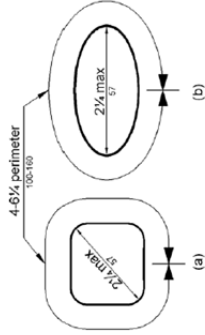
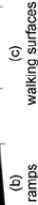
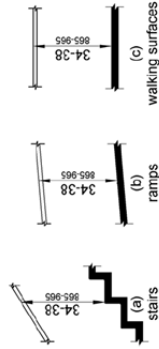
EDGE PROTECTION				
Requirements¹		YES	NO	NA
<p>Figures/Examples</p> 	<p>Requirements¹</p> <ul style="list-style-type: none"> Edge protection shall be provided on each side of ramp runs and at each side of ramp landings. Edge protection shall not be required on curb ramps and their landings. Edge protection shall not be required on ramps that are not required to have handrails and have flares not steeper than 1:10. Edge protection shall not be required on the sides of ramp landings having a vertical drop-off on 1/2 inch maximum within 10 inches horizontally of the minimum landing area. The floor or ground surface of the ramp run or landing shall extend 12 inches minimum beyond the inside face of a handrail. A curb or barrier shall be provided that prevents the passage of a 4 inch diameter sphere, where any portion of the sphere is within 4 inches of the finish floor or ground surface. 			

HANDRAIL AND PEDESTRIAN GUARDRAIL


Requirements¹

Figures/Examples

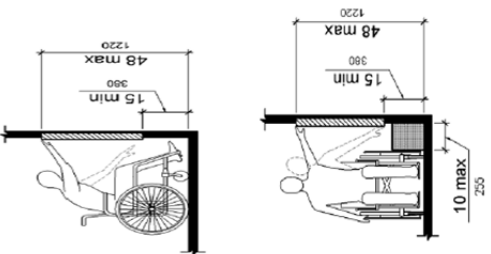
- The clear width of walking surfaces shall be 36 inches minimum.
- Handrails are required on ramp runs with a rise greater than 6 inches and on certain stairways. Handrails are not required on walking surfaces with running slopes less than 1:20. Where required, handrails shall be provided on both sides of stairs and ramps.
- Handrails shall be continuous within the full length of each stair flight or ramp run. Inside handrails on switchback or dogleg stairs and ramps shall be continuous between flights or runs.
- Top of gripping surfaces of handrails shall be 34 inches minimum and 38 inches maximum vertically above walking surfaces, stair nosings, and ramp surfaces. Handrails shall be at a consistent height above walking surfaces, stair nosings, and ramp surfaces.
- Clearance between handrail gripping surfaces and adjacent surfaces shall be 1 1/2 inches minimum.
- Handrail gripping surfaces with a circular cross section shall have an outside diameter of 1 1/4 inches minimum and 2 inches maximum.
- Handrail gripping surfaces with a non-circular cross section shall have a perimeter dimension of 4 inches minimum and 6 1/4 inches maximum, and a cross-section dimension of 2 1/4 inches maximum.
- Handrail gripping surfaces and any surfaces adjacent to them shall be free of sharp or abrasive elements and shall have rounded edges.
- Handrails shall not rotate within their fittings.
- Ramp handrails shall extend horizontally above the landing for 12 inches minimum beyond the top and bottom of ramp runs. Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent ramp run.
- At the top of a stair flight, handrails shall extend horizontally above the landing for 12 inches minimum beginning directly above the first riser nosing. Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight.
- At the bottom of a stair flight, handrails shall extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing. Extension shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight.
- The surface of the ramp run or landing shall extend 12 inches minimum beyond the inside face of a handrail.

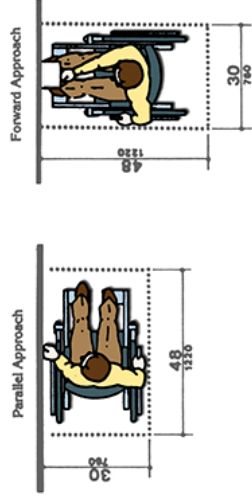


STAIRWAYS

Figures/Examples	Requirements ¹	YES	NO	NA
	<ul style="list-style-type: none"> All steps on a flight of stairs shall have uniform riser heights and uniform tread depths. Risers shall be 4 inches high minimum and 7 inches high maximum. Treads shall be 11 inches deep minimum. Open risers are not permitted. Stairway treads shall have a 2 inch minimum wide strip that contrasts visually with the tread and riser. The strip shall be located at the front of each tread and run the full width of the tread. The radius of curvature at the leading edge of the tread shall be 1/2 inch maximum. Nosings that project beyond risers shall have the underside of the leading edge curved or beveled. Risers shall be permitted to slope under the tread at an angle of 30 degrees maximum from vertical. The permitted projection of the nosing shall extend 1 1/2 inches maximum over the tread below. Stairs shall have handrails complying with PROWAG 2005 R408. 			

UNOBSTRUCTED REACH RANGES

Figures/Examples	Requirements ¹	YES	NO	NA
	<p>Forward Reach</p> <ul style="list-style-type: none"> Where a forward reach is unobstructed, the high forward reach shall be 48 inches maximum and the low forward reach shall be 15 inches minimum above the finish floor or ground. <p>Side Reach</p> <ul style="list-style-type: none"> Where a clear floor or ground space allows a parallel approach to an element and the side reach is unobstructed, the high side reach shall be 48 inches maximum and the low side reach shall be 15 inches minimum above the finish floor or ground. EXCEPTION: An obstruction shall be permitted between the clear floor or ground space and the element where the depth of the obstruction is 10 inches maximum. 			

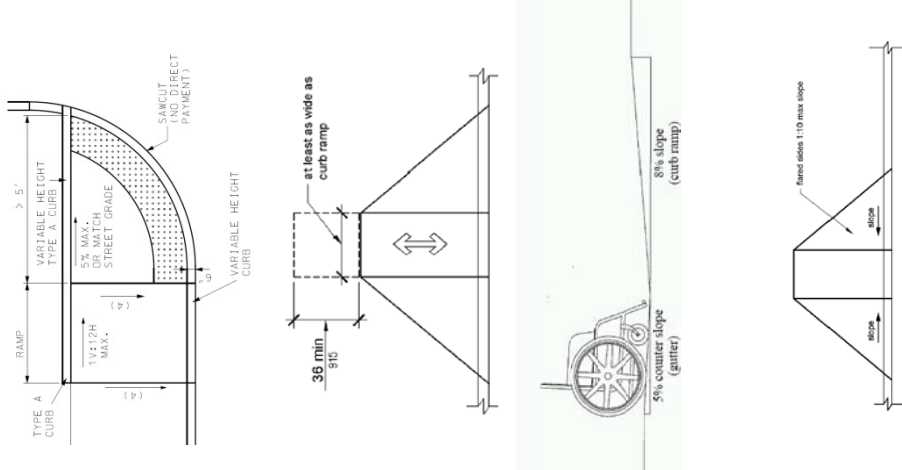


CURB RAMPS

Requirements¹

Figures/Examples

A curb ramp, blended transition, or a combination of curb ramps and blended transitions shall connect the pedestrian access routes at each pedestrian street crossing.



15 Foot Rule: For a compliant curb ramp to exceed 8.33 percent running grade, its constructed length must exceed 15.0 feet.

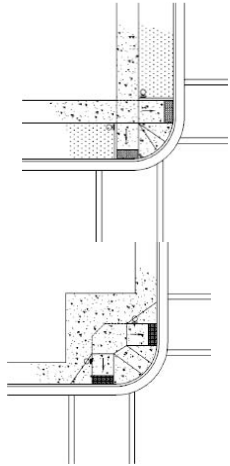
- The clear width of ramps, excluding the flares, shall be 4.0 feet minimum.
- Ramp runs shall have a running slope between 5 percent minimum and 8.33 percent maximum but shall not require the ramp length to exceed 15.0 feet.
 - Exception: **15 Foot Rule:** The running slope for a curb ramp is not limited to 8.33 percent maximum if the constructed curb ramp length exceeds 15 feet in length.
- Cross slope of ramp runs shall be 2 percent maximum.
- The cross slope at midblock crossings shall be permitted to be warped to meet street or highway grade.
- Ramps shall have landings at the top and the bottom of each ramp run.
 - The landing clear width shall be at least as wide as the widest ramp run leading to the landing.
 - The landing clear length shall be 5.0 feet long minimum.
 - Ramps that change direction between runs at landings shall have a clear landing 5.0 feet minimum by 5.0 feet minimum.
- Ramp runs with a rise greater than 6 inches shall have handrails.
- Handrails and Edge protection shall not be required on curb ramps and their landings.
- Curb height = 0 inches within curb ramp spaces.²
- Curb ramps must be flush with street.
- Street and ramp slope break is 13 percent or less. (See adjacent figure.)
- The adjacent surfaces at transitions at curb ramps to walks, gutters, and streets shall be at the same level.
- Flared sides with a slope of 10 percent maximum, measured parallel to the curb line, shall be provided where a pedestrian circulation path crosses the curb ramp.
 - In alterations, where there is no landing at the top of curb ramps, curb ramp flares shall be provided and shall not be steeper than 1:12.
- Detectable warning surfaces shall be provided, where a curb ramp, landing, or blended transition connects to a street.
- Gratings, access covers, and other appurtenances shall not be located on curb ramps, landings, blended transitions, and gutters within the pedestrian access route.
- Grade breaks shall not be permitted on the surface of curb ramps, blended transitions, landings, and gutter areas within the pedestrian access route. Surface slopes that meet at grade breaks shall be flush.
- Grade Breaks at the top and bottom of curb ramp runs shall be perpendicular to the direction of the ramp run.

YES

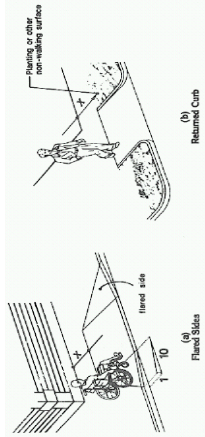
NO

NA

Figures/Examples



Perpendicular Ramps

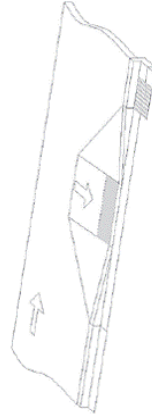


X = 4" Min.

Flared Sides in Pathway Not in Pathway

Roadway Grade Exception:

Where curb ramps, landings and blended transitions are contained within a street or highway right-of-way, the grade of the pedestrian access route is permitted to be modified to equal the general grade established for the adjacent street or highway.



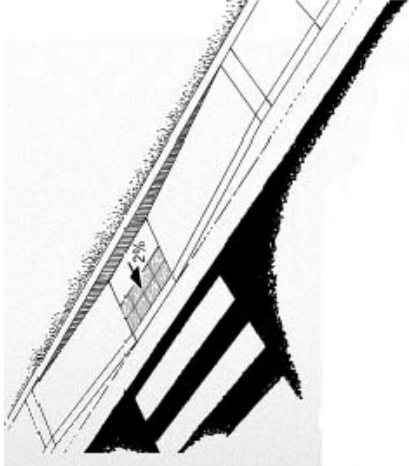
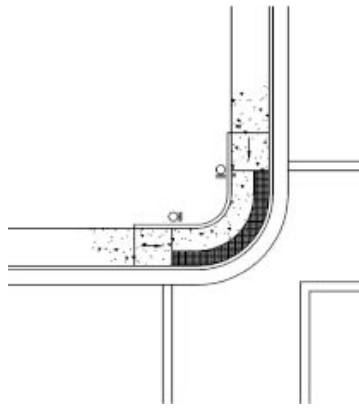
Requirements¹

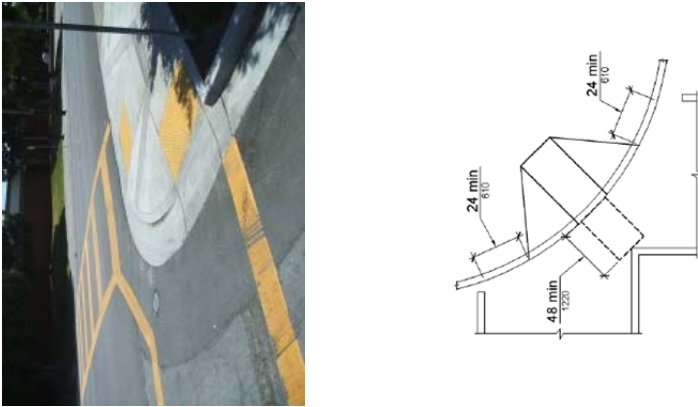
- **Perpendicular curb ramps** shall have a running slope that cuts through or is built up to the curb at right angles or meets the gutter grade break at right angles.
- The clear width of landings, blended transitions, and curb ramps, excluding flares, shall be 4.0 feet minimum.
- The running slope shall be 5 percent minimum and 8.33 percent maximum but shall not require the ramp length to exceed 15.0 feet.
- The cross slope at intersections shall be 2 percent maximum.
- The cross slope at midblock crossings shall be permitted to be warped to meet street or highway grade.
- **Roadway Grade Exception:** The grade of pedestrian access routes within sidewalks is permitted to equal the general grade established for the adjacent street or highway. The cross slope of curb ramps, blended transitions, landings, and turning spaces at pedestrian street crossings without yield or stop control where vehicles can proceed through the intersection without slowing or stopping, and at midblock pedestrian street crossings are permitted to equal the street or highway grade.
- A landing 4.0 feet minimum by 4.0 feet minimum shall be provided at the top of the curb ramp and shall be permitted to overlap other landings and clear space.
- Flared sides with a slope of 10 percent maximum, measured parallel to the curb line, shall be provided where a pedestrian circulation path crosses the curb ramp.
- If the flared sides are not in the pathway (grass next to ramp), then there is no maximum slope and can be vertical curbs. (See adjacent figure for further explanation.)
- Detectable warning surfaces shall be provided, where a curb ramp, landing, or blended transition connects to a street.
- Gratings, access covers, and other appurtenances shall not be located on curb ramps, landings, blended transitions, and gutters within the pedestrian access route.
- Grade breaks at the top and bottom of perpendicular curb ramps shall be perpendicular to the direction of ramp run. At least one end of the bottom grade break shall be at the back of curb.
- Grade breaks shall not be permitted on the surface of curb ramps, blended transitions, landings, and gutter areas within the pedestrian access route. Surface slopes that meet at grade breaks shall be flush.
- Where both ends of the bottom grade break are 5.0 feet or less from the back of curb, the detectable warning shall be located on the ramp surface at the bottom grade break. Where either end of the bottom grade break is more than 5.0 feet from the back of curb, the detectable warning shall be located on the lower landing.

YES

NO

NA

Figures/Examples	Requirements ¹	YES	NO	NA
 <p>Curb Ramps and landings that are contained within a street or highway border may use the Roadway Grade Exception for slopes or cross slopes in the direction of the roadway travel being matched.</p>	<ul style="list-style-type: none"> • Parallel curb ramps shall have a running slope that is in-line with the direction of sidewalk travel. • The clear width of landings, blended transitions, and curb ramps, excluding flares, shall be 4.0 feet minimum. • The running slope shall be 5 percent minimum and 8.33 percent maximum but shall not require the ramp length to exceed 15.0 feet. • The cross slope shall be 2 percent maximum. • Roadway Grade Exception: The grade of pedestrian access routes within sidewalks is permitted to equal the general grade established for the adjacent street or highway. The cross slope of curb ramps, blended transitions, landings, and turning spaces at pedestrian street crossings without yield or stop control where vehicles can proceed through the intersection without slowing or stopping, and at midblock pedestrian street crossings are permitted to equal the street or highway grade. • A landing 4.0 feet minimum by 4.0 feet minimum shall be provided at the bottom of the ramp run and shall be permitted to overlap other landings and clear floor or ground space. • Where a parallel curb ramp does not occupy the entire width of a sidewalk, drop-offs at diverging segments shall be protected. • Detectable warning surfaces shall be provided, where a curb ramp, landing, or blended transition connects to a street. • Gratings, access covers, and other appurtenances shall not be located on curb ramps, landings, blended transitions, and gutters within the pedestrian access route. • Grade breaks shall not be permitted on the surface of curb ramps, blended transitions, landings, and gutter areas within the pedestrian access route. Surface slopes that meet at grade breaks shall be flush. 			
	<ul style="list-style-type: none"> • Blended Transitions shall have a running slope of 5 percent maximum and cross slope shall be 2 percent maximum. • The clear width blended transitions, excluding flares, shall be 4.0 feet minimum. • Detectable warning surfaces shall be provided where a blended transition connects to a street. • Gratings, access covers, and other appurtenances shall not be located on blended transitions within the pedestrian access route. • Grade breaks at the top and bottom of perpendicular curb ramps shall be perpendicular to the direction of ramp run. At least one end of the bottom grade break shall be at the back of curb. Grade breaks shall not be permitted on the surface of blended transitions and gutter areas within the pedestrian access route. Surface slopes that meet at grade breaks shall be flush. 			

Figures/Examples	Requirements ¹	YES	NO	NA
	<ul style="list-style-type: none"> • Diagonal Curb Ramps or corner type curb ramps are no longer preferred design types. A design that provides individual ramps for each crossing direction is recommended by the US Access Board. • Diagonal Curb Ramps or corner type curb ramps with returned curbs or other well-defined edges shall have the edges parallel to the direction of pedestrian flow. • The bottom of diagonal curb ramps shall have a clear space 48 inches minimum outside active traffic lanes of the roadway. • Diagonal curb ramps provided at marked crossings shall provide the 48 inches minimum clear space within the markings. • Diagonal curb ramps with flared sides shall have a segment of curb 24 inches long minimum located on each side of the curb ramp and within the marked crossing. • Roadway Grade Exception: The grade of pedestrian access routes within sidewalks is permitted to equal the general grade established for the adjacent street or highway. The cross slope of curb ramps, blended transitions, landings, and turning spaces at pedestrian street crossings without yield or stop control where vehicles can proceed through the intersection without slowing or stopping, and at midblock pedestrian street crossings are permitted to equal the street or highway grade. • Detectable warning surfaces shall be provided, where a curb ramp, landing, or blended transition connects to a street. • Gratings, access covers, and other appurtenances shall not be located on curb ramps, landings, blended transitions, and gutters within the pedestrian access route. • Grade breaks shall not be permitted on the surface of curb ramps, blended transitions, landings, and gutter areas within the pedestrian access route. Surface slopes that meet at grade breaks shall be flush. • Running and cross slope at midblock crossings shall be permitted to be warped to meet street or highway grade. 			

DETECTABLE WARNINGS DEVICES (TRUNCATED DOMES)

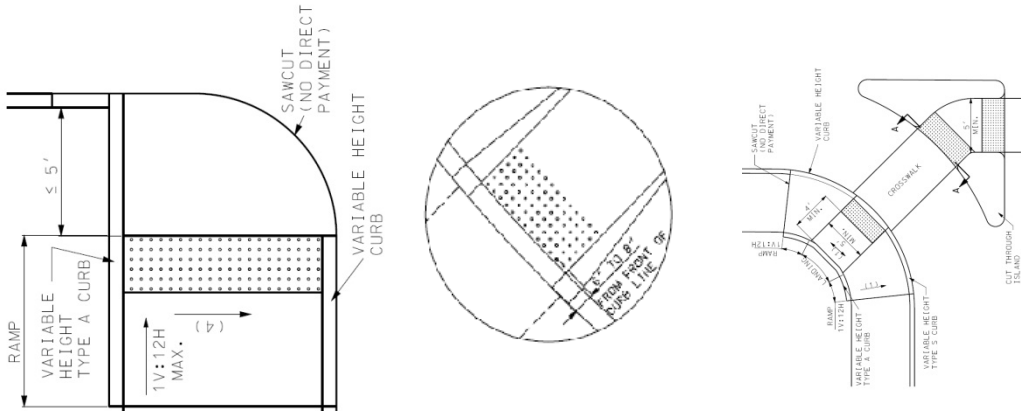
Requirements¹

YES **NO** **NA**

- Detectable warnings shall consist of a surface of truncated domes aligned in a square or radial grid pattern complying with 2010 ADA Standards. Detectable warning surfaces shall contrast visually with adjacent gutter, street or highway, or walkway surfaces, either light-on-dark or dark-on-light.
- Detectable warning surfaces shall extend 24 inches minimum in the direction of travel and the full width of the curb ramp (exclusive of flares), the landing, or the blended transition. Detectable warning surfaces are required where curb ramps, blended transitions, or landings provide a flush pedestrian connection to the street.
- Sidewalk crossings of residential driveways should not generally be provided with detectable warnings, since the pedestrian right-of-way continues across most driveway aprons and overuse of detectable warning surfaces should be avoided in the interests of message clarity. However, where commercial driveways are provided with traffic control devices or otherwise are permitted to operate like public streets, detectable warnings should be provided at the junction between the pedestrian route and the street.
- Perpendicular Curb Ramps: Where both ends of the bottom grade break are 5 feet or less from the back of curb, the detectable warning shall be located on the ramp surface at the bottom grade break. Where either end of the bottom grade break is more than 5 feet from the back of curb, the detectable warning shall be located on the lower landing.
- Landings and Blended Transitions: The detectable warning shall be located on the landing or blended transition at the back of curb.
- Rail Crossings: The detectable warning surface shall be located so that the edge nearest the rail crossing is 6 feet minimum and 15 feet maximum from the centerline of the nearest rail. The rows of truncated domes in a detectable warning surface shall be aligned to be parallel with the direction of wheelchair travel.
- Detectable warnings at cut-through islands shall be located at the curb line in-line with the face of curb and shall be separated by a 2.0 foot minimum length of walkway without detectable warnings. Where the island has no curb, the detectable warning shall be located at the edge of roadway.
- Exception, when detectable warnings are required by a manufacturer's installation specifications to be embedded into concrete with a surrounding edge, domes may be installed at less than the required full width. Under this exception, the detectable warning surface shall never be more than 2 inches from the edge of the curb ramp, the landing, or the blended transition.²
- Detectable warnings shall not be stamped into concrete.

Figures/Examples

A surface feature of truncated dome material built in or applied to the walking surface to advise of an upcoming change from pedestrian to vehicular way.

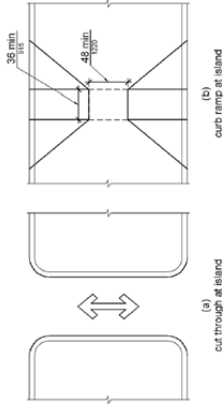


ISLANDS AND MEDIANS

Requirements¹

Figures/Examples

- Medians and pedestrian refuge islands in crosswalks shall contain a pedestrian access route, including passing space and connecting to each crosswalk.
- Raised islands in crossings shall be cut through level with the street or have curb ramps at both sides.
- All median island passage spaces shall provide a clear width of 5 feet minimum.²
- Medians and pedestrian refuge islands shall be 6.0 feet minimum in length in the direction of pedestrian travel.
- **Roadway Grade Exception:** The grade of pedestrian access routes within sidewalks is permitted to equal the general grade established for the adjacent street or highway. The cross slope of curb ramps, blended transitions, landings, and turning spaces at pedestrian street crossings without yield or stop control where vehicles can proceed through the intersection without slowing or stopping, and at midblock pedestrian street crossings are permitted to equal the street or highway grade.
- Each curb ramp shall have a level area 48 inches long minimum by 36 inches wide minimum at the top of the curb ramp in the part of the island intersected by the crossings.
- Each 48 inch minimum by 36 inch minimum area shall be oriented so that the 48 inch minimum length is in the direction of the running slope of the curb ramp it serves. The 48 inch minimum by 36 inch minimum areas and the accessible route shall be permitted to overlap.
- Detectable warning surfaces shall be provided, where a curb ramp, landing, or blended transition connects to a street. Medians and pedestrian refuge islands shall have detectable warnings at curb ramps and blended transitions.
- Detectable warnings at cut-through islands shall be located at the curb line in-line with the face of curb and shall be separated by a 2.0 foot minimum length of walkway without detectable warnings. Where the island has no curb, the detectable warning shall be located at the edge of roadway.
- Gratings, access covers, and other appurtenances shall not be located on curb ramps, landings, blended transitions, and gutters within the pedestrian access route.
- Grade breaks shall not be permitted on the surface of curb ramps, blended transitions, landings, and gutter areas within the pedestrian access route. Surface slopes that meet at grade breaks shall be flush.



ACCESSIBLE PEDESTRIAN SIGNALS (PUSHBUTTONS)

Figures/Examples



Requirements¹

- Each crosswalk with pedestrian signal indication shall have an accessible pedestrian signal which includes audible and vibrotactile indications of the WALK interval. Where a pedestrian pushbutton is provided, it shall be integrated into the accessible pedestrian signal.
- Accessible pedestrian signals shall be located so that the vibrotactile feature can be contacted from the level landing serving a curb ramp, if provided, or from a clear floor or ground space that is in line with the crosswalk line adjacent to the vehicle stop line.
- Accessible pedestrian pushbuttons shall be located within a reach range complying with PROWAG 2005 R404.
- A clear floor or ground space shall be provided at the pushbutton and shall connect to or overlap the pedestrian access route.
- **Roadway Grade Exception:** Clear spaces required at accessible pedestrian signals and pedestrian pushbuttons and at other accessible elements are permitted to have a running slope or cross slope consistent with the grade of the adjacent pedestrian access route.
- Pedestrian signals shall comply with PROWAG 2005 R306.
 - Pushbuttons are a minimum 2 inches across in one dimension, raised (not recessed), contrast visually with the housing or mounting, and have a maximum force of 5 pounds to activate operable parts.
 - The control face of the pushbuttons is installed parallel to the direction of the crosswalk it serves.
 - The location of pushbuttons for new construction are within a longitudinal distance of 5 feet maximum from the crosswalk line, and 30 inches minimum to 6 feet maximum from the curb line.
 - For audible pedestrian signal devices only, pushbuttons are a minimum 10 feet apart at crossings and a minimum 5 feet apart at islands or medians. This minimum distance may be waived for audible pushbuttons in medians and islands with the use of voice commands.
 - Pushbuttons are located no higher than 42 inches from the ground and within 10 inch reach from a level paved landing with minimum dimensions of 48 inches x 30 inches positioned for a parallel approach to the pushbutton. For a forward approach space (30 x 48 inches) the allowed reach range is 0 inches.
 - Where pushbuttons for the visually impaired are installed, tactile signs are to be provided that meet ADA requirements.

YES

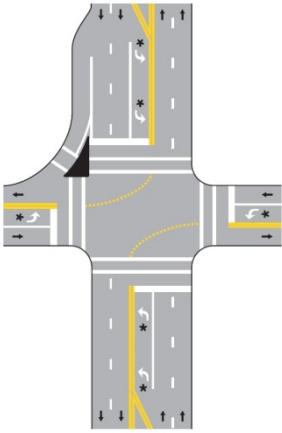
NO

NA

PEDESTRIAN STREET CROSSINGS

Requirements¹

Figures/Examples



- Crosswalks shall contain a pedestrian access route that connects to departure and arrival walkways through any median or pedestrian refuge island.
- Marked crosswalks shall be 6 feet wide minimum.
- The grade of the pedestrian access route is permitted to equal the general grade established for the adjacent street or highway, except that where pedestrian access routes are contained within pedestrian street crossings a maximum grade of 5 percent is required.
- A 5 percent maximum cross slope is specified for pedestrian access routes contained within pedestrian street crossings without yield or stop control.
- Crossings with Stop Control: The cross slope shall be 2 percent maximum.
- The cross slope at midblock crossings shall be permitted to be warped to meet street or highway grade.
- The running slope shall be 5 percent maximum, measured parallel to the direction of pedestrian travel in the crosswalk.
- All pedestrian signal phase timing shall be calculated using a pedestrian walk speed of 3.5 ft/s maximum. The crosswalk distance used in calculating pedestrian signal phase timing shall include the entire length of the crosswalk.
- Crosswalk pavement marking is 6 inches wide white.
- Stop bar is at minimum 4 feet from the crosswalk.
- Curb ramps at marked crossings shall be wholly contained within the markings, excluding any flared sides.
- Gratings, access covers, and other appurtenances shall not be located on curb ramps, landings, blended transitions, and gutters within the pedestrian access route.
- Grade breaks shall not be permitted on the surface of curb ramps, blended transitions, landings, and gutter areas within the pedestrian access route. Surface slopes that meet at grade breaks shall be flush.
- Beyond the curb face, a clear space of 4.0 feet minimum by 4.0 feet minimum shall be provided within the width of the crosswalk and wholly outside the parallel vehicle travel lane.

YES

NO

NA

ALTERNATE CIRCULATION PATH

Requirements¹

- Alternate circulation paths shall contain a pedestrian access route.
- To the maximum extent feasible, the alternate circulation path shall be provided on the same side of the street as the disrupted route.
- Where the alternate circulation path is exposed to adjacent construction, excavation drop-offs, traffic, or other hazards, it shall be protected with a pedestrian barricade or channelizing device complying with MUTCD 6F-58, 6F-63, and 6F-66.
- Pedestrian barricades and channelizing devices shall be continuous, stable, and non-flexible and shall consist of a wall, fence, or enclosures specified in section 6F-58, 6F-63, and 6F-66 of the MUTCD (incorporated by reference; see PROWAG 2005 R104.2.4).
- A continuous bottom edge shall be provided 6 inches maximum above the ground or walkway surface.
- Devices shall provide a continuous surface or upper rail at 3.0 feet minimum above the ground or walkway surface.
- Support members shall not protrude into the alternate circulation path.

Figures/Examples



YES

NO

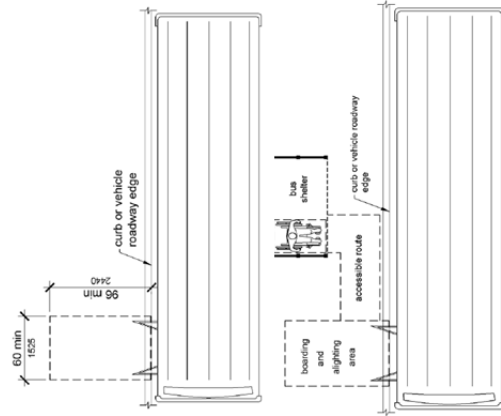
NA

BUS BOARDING AND ALIGHTING AREAS

Requirements¹

- Bus stop boarding and alighting areas shall have a firm, stable surface.
- Bus stop boarding and alighting areas shall provide a clear length of 8 feet minimum, measured perpendicular to the curb or vehicle roadway edge, and a clear width of 5 feet minimum, measured parallel to the vehicle roadway.
- Bus stop boarding and alighting areas shall be connected to streets, sidewalks, or pedestrian paths by an accessible route.
- Parallel to the roadway, the slope of the bus stop boarding and alighting area shall be the same as the roadway, to the maximum extent practicable. Perpendicular to the roadway, the slope of the bus stop boarding and alighting area shall not be steeper than 2 percent.
- Bus shelters shall provide a minimum 30 inch by 48 inch clear floor or ground space entirely within the shelter.
- Bus shelters shall be connected by an accessible route to a boarding and alighting area.

Figures/Examples



YES

NO

NA

¹ Any "NO" answer means that location is ADA non-compliant and needs to be corrected before final acceptance of the work, except as follows. Although exceptions listed in the above requirements may not meet MoDOT current policy standards, work that does meet the minimum ADA standards will be accepted as ADA compliant. Where it is technically infeasible to correct deficiencies as part of the current work, those locations will be labeled as non-compliant and marked "NO". These items will be added to the Transition Plan Inventory for correction at a later date. (Guidance is provided in ADA documents and in the EPG on what may be considered as technically infeasible.)

² A MoDOT requirement.

Unless otherwise noted, all notes on this form are direct ADA requirements as published in either the PROWAG dated November 23, 2005 or ADA/ABA Standards from 2010.

All exceptions and technically infeasible locations should be discussed with the project manager and/or area engineer prior to acceptance of the work. All exceptions and technically infeasible locations will need to be thoroughly documented by the engineer, and that documentation will be attached to this form and retained as part of the final acceptance records.

All slope and grade measurements for ADA compliance will be made using a calibrated 2 foot long digital level.

US Access Board PROWAG

R202.3.1 Prohibited Reduction in Required Access. An alteration shall not decrease or have the effect of decreasing the accessibility of a facility or an accessible connection to an adjacent building or site below the requirements for new construction in effect at the time of the alteration.

Inspector Name: _____	
Inspector Signature: _____	Date: _____
Resident Engineer or Area Engineer Name: _____	
Resident Engineer or Area Engineer Signature: _____	Date: _____
Distribution:	
<input type="checkbox"/> Project Office	
<input type="checkbox"/> District Permit Office	

SAMPLE

ADA EXCEPTIONS DOCUMENTATION

Job No. _____ Route _____ County _____ Location _____

<u>Item</u>	<u>Location</u>	<u>Standard</u>	<u>As Built</u>	<u>Discussion</u>
Sidewalk Width	Third Street Sta 3+00 to 7+00 RT	5' wide	Exist 3' wide	Required 5' x 5' Passing Space added at 5+00
Curb Ramp Grade	SE Quad of Main & First	8.33%	11.2%	As-built Curb Ramp is 16.0' long
Parallel Ramp Landing running grade (turning space)	Sta 35+20 to 35+25 Rt Rte 14	2.00%	2.6%	Landing running grade matches existing roadway grade
Sidewalk Grade	Sta 23+45 to 23+52	5.0%	8.4%	Match existing floor at two exist doorways, Straight grade between fixed elevations

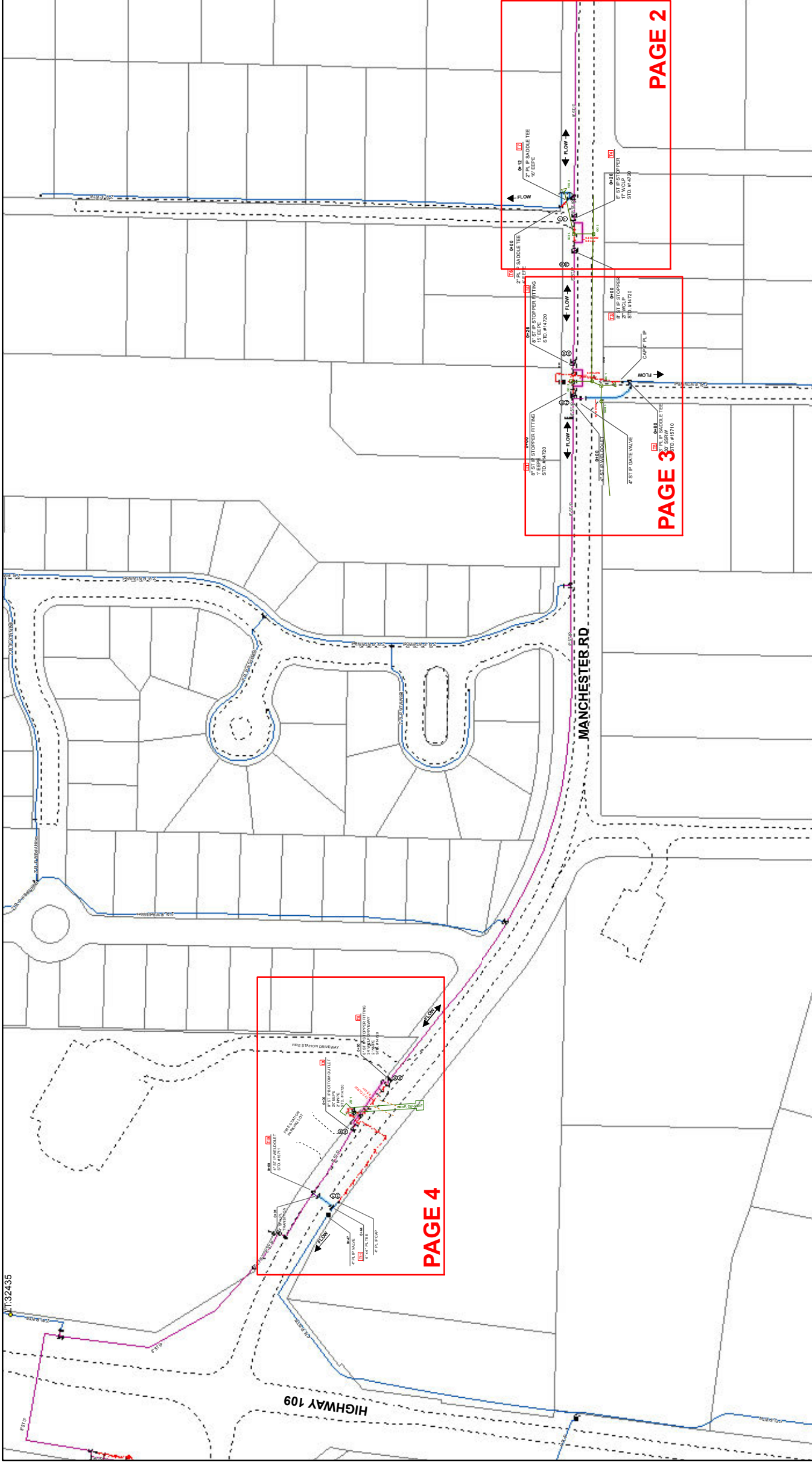
Inspector Name: _____	
Inspector Signature: _____	Date: _____
Resident Engineer or Area Engineer Name: _____	
Resident Engineer or Area Engineer Signature: _____	Date: _____
Distribution: <input type="checkbox"/> Project Office <input type="checkbox"/> District Permit Office	

LACLEDE GAS COMPANY -- ST. LOUIS, MO.



Job Description: Relocate 8" ST IP and 4" PL IP
Work Request ID: 5298 **Service Hub ID:** 12803
Work Request Name: Manchester_Streetscape_Ph2
Work Order Numbers: Install W.O. 67209
 Abandon W.O. 58719
Map Grid: 204-74
Budget Project #: 34-01
C&M Pipe Code(s): 49, 52, 53
Municipality: Wildwood

90°38'29"W 38°34'37"N NAD83

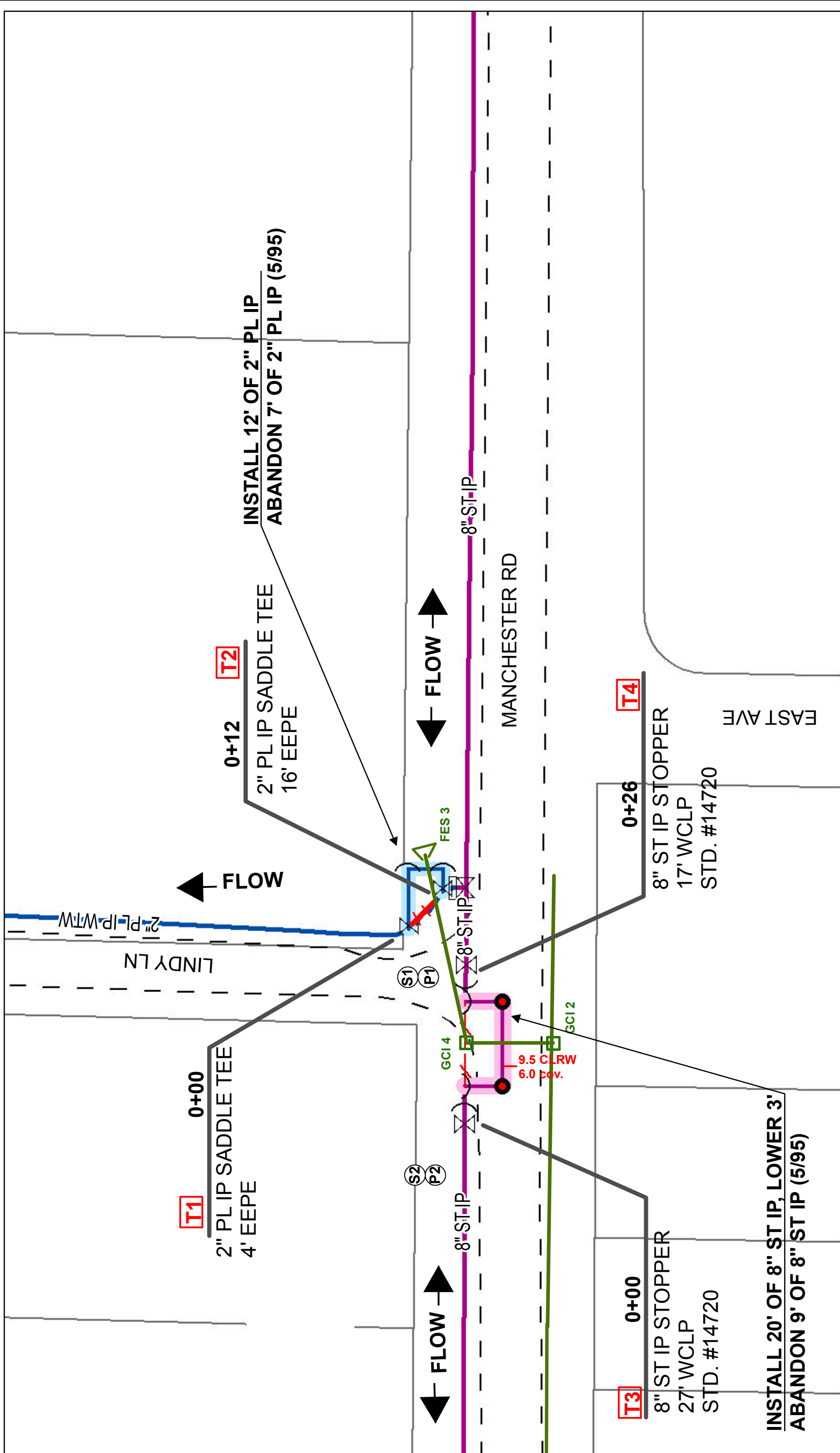


1. INSTALL STEEL MAIN PER STD. 10500
2. INSTALL PLASTIC MAIN PER STD. 10503
3. SEE STD. 15605 FOR TRACE WIRE AND TEST STATION INFORMATION.
4. CORROSION PROTECTION INSPECTOR TO CHECK CATHODIC PROTECTION OF ALL EXISTING COATED OR BARE PROTECTED FACILITIES EXPOSED AND DIRECT STEPS NECESSARY TO MAINTAIN PROPER ISOLATION AND CATHODIC PROTECTION AS REQUIRED.
5. INSTALL ANODES AND/OR TEST STATIONS PER STD. 12115, 12121 AND 12122 AS WELL AS ANY BONDS REQUIRED PER INSTRUCTIONS FROM CORROSION PROTECTION INSPECTOR.
6. ALL BONDS MUST BE INCLUDED ON FIELD NOTES OR REPORTED ON A LEAK AND PIPE CONDITION REPORT - FORM 736.
7. INSTALL AN ANODE WITHOUT A TEST STATION ON ANY UNPROTECTED STEEL MAIN REMAINING IN SERVICE. INCLUDE LOCATION ON FORM 736 WHEN INITIATED TO SHOW PIPE CONDITIONS.
8. FOR UTILITY LOCATES, CALL ONE-CALL SYSTEM (1-800-344-7483), AREA CATV AND ALL OTHER AFFECTED UTILITIES.
9. CONTACT DRAFTING FOR NECESSARY FIELD NOTES.
10. CONTACT ROW TO SECURE NECESSARY EASEMENTS AND FOR ANY SURVEY WORK @ (658-5497 OR 658-5498)
11. SQUEEZE-OFF PROCEDURE - STD. 10510
12. SHUTDOWN PROCEDURE REQUIRED.
13. CONDUCT INITIAL CATHODIC PROTECTION SURVEY.
14. RADIOGRAPH PER STD. 13213.
15. HYDROTEST PER STD. 14501.
16. INSTALL LIQUID BLOWOFFS AS REQUIRED PER STD.
17. ABANDON GAS MAIN PER STD. 10701.
18. INSERT PLASTIC MAIN PER STD. 10507.
19. ANY QUESTIONS CONCERNING "UPGRADING" OF EXISTING MAINS CONTACT MAINTENANCE ENGINEERING @ 658-5447.
20. LACLEDE PERSONNEL SHOULD FOLLOW STANDARD PRECAUTIONS REGARDING THE POTENTIAL FOR DRIP OIL TO BE PRESENT IN ACTIVE GAS MAINS AND ADHERE TO APPROVED PROCEDURES FOR MANAGEMENT/DISPOSAL OF ANY PIECES OF PIPE GENERATED IN THE COURSE OF ABANDONMENT. ANY DOCUMENTED DRIPS SHOULD BE CLEARED AND DRAINED BEFORE ABANDONMENT.

Check for
Work Order Authorization

GIS Specialist: NMT	Revision Date(s): _____
Original Date: 2/27/12	_____

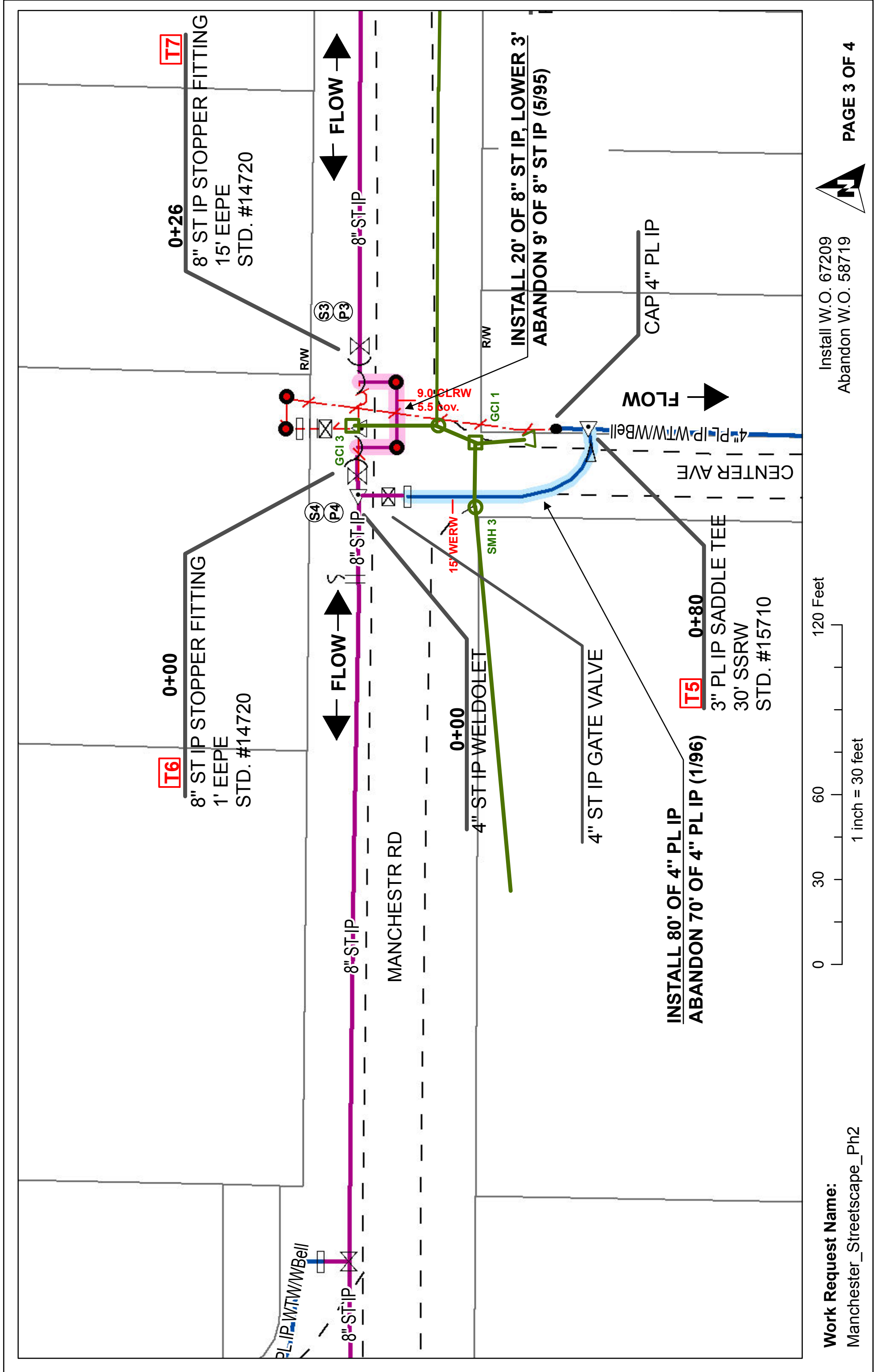
	Drip		Service Tee		Gas Pipe Casing		Gas Valve		Main & Service
	Station Structure		Stopper / Bottom Outlet		Exposed Pipe		Ball		Existing
	Regulator Station		Coupling		Abandoned Gas Pipe		Butterfly		Install
	Meter Setting		Insulated Coupling		Gate		Blow Down		Remove
	Marker Post		Trace Wire Box		RCP - Reinforced Concrete Pipe		Down		Abandon
	Electronic Marker		End Cap		CMP - Corrugated Metal Pipe		Plug		Relayed
	Flange		Insulated Flange		Cross		Gate		Down
	Insulated Flange		Cross		Reducer		Telee		Vertical EII



Work Request Name:
Manchester_Streetscape_Ph2

Install W.O. 67209
Abandon W.O. 58719



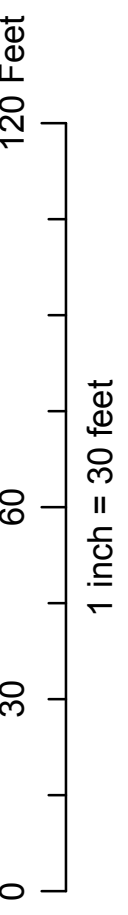


T6 0+00
8" ST IP STOPPER FITTING
1' EEPE
STD. #14720

T7 0+26
8" ST IP STOPPER FITTING
15' EEPE
STD. #14720

T5 0+80
3" PL IP SADDLE TEE
30' SSRW
STD. #15710

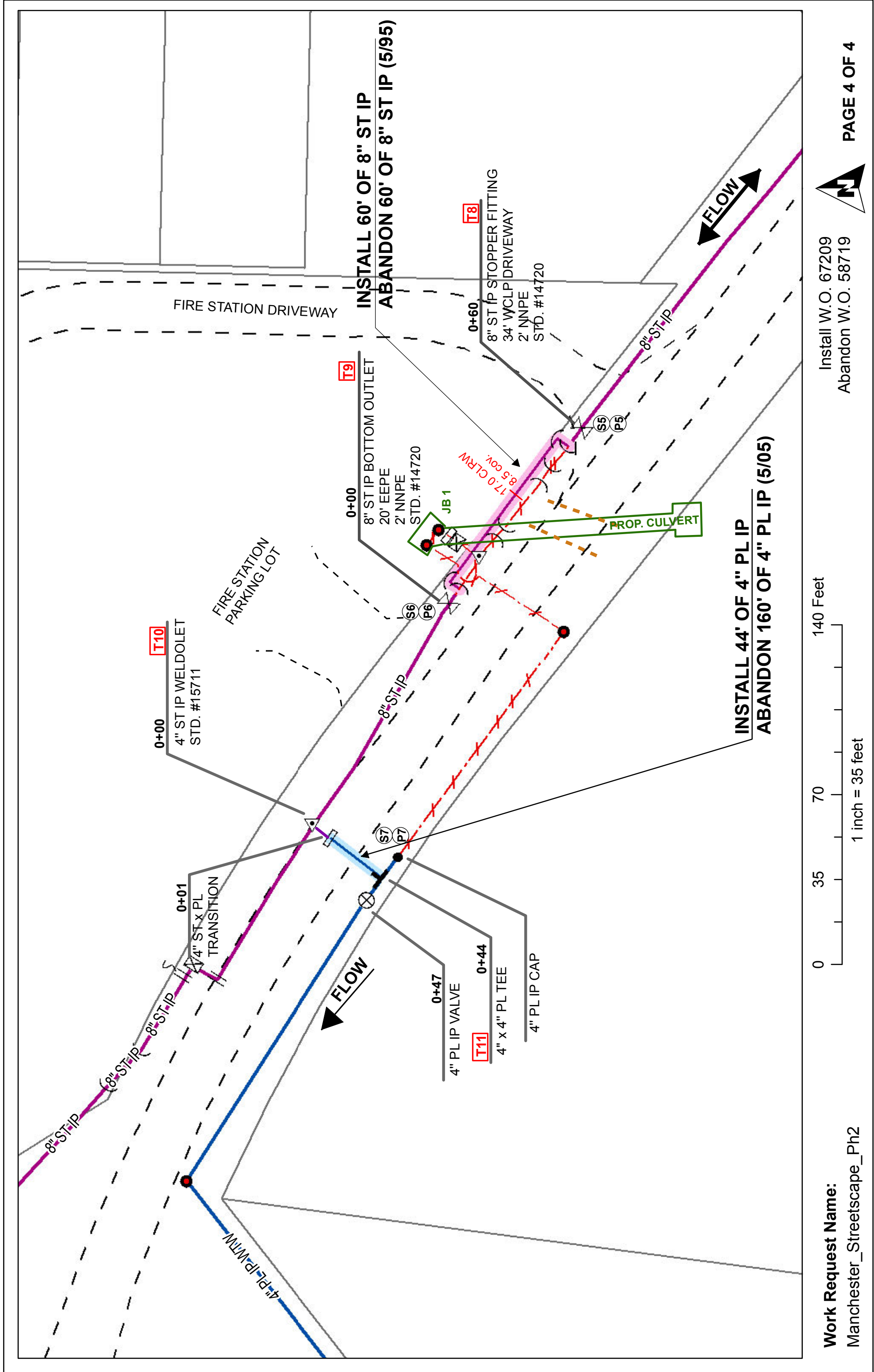
INSTALL 20' OF 8" ST IP, LOWER 3'
ABANDON 9' OF 8" ST IP (5/95)



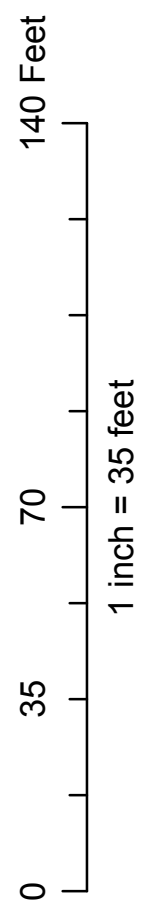
Work Request Name:
Manchester Streetscape_Ph2

Install W.O. 67209
Abandon W.O. 58719





Work Request Name:
Manchester_Streetscape_Ph2



Install W.O. 67209
Abandon W.O. 58719



LACLEDE GAS COMPANY -- ST. LOUIS, MO.



Job Description: Relocate 8" ST IP and 4" PL IP

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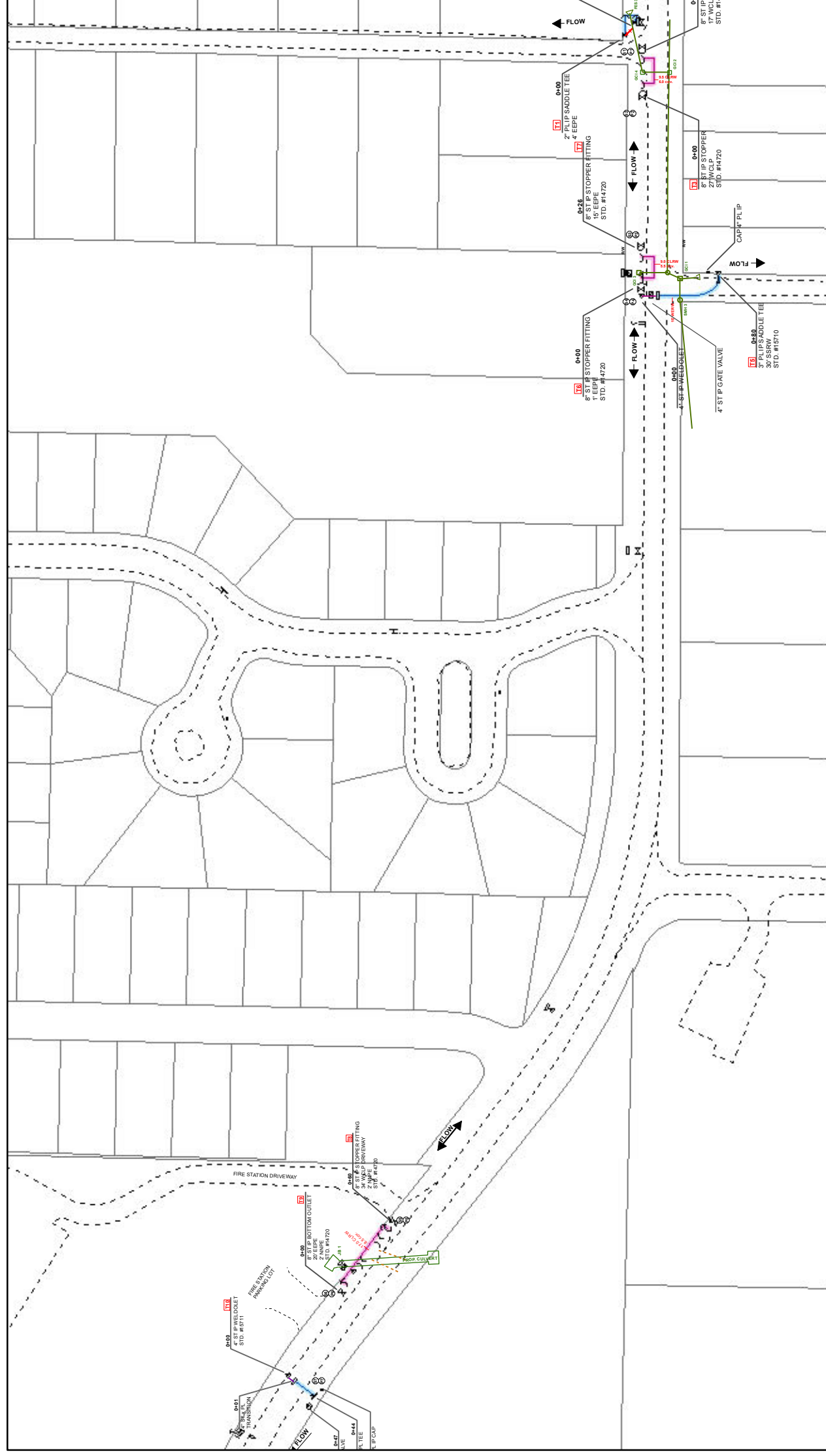
Municipality: Wildwood

C&M Pipe Code(s): 49, 52, 53

90°38'28"W 38°34'37"N NAD83

Tie-in Number _____ Soap Test <input type="checkbox"/> Yes <input type="checkbox"/> No (Steel Only) Main Condition _____ <input type="checkbox"/> Good <input type="checkbox"/> Soft & Pitted <input type="checkbox"/> Deep Pits	CATH. PROT. _____ _____ _____
Tie-in Number _____ Soap Test <input type="checkbox"/> Yes <input type="checkbox"/> No (Steel Only) Main Condition _____ <input type="checkbox"/> Good <input type="checkbox"/> Soft & Pitted <input type="checkbox"/> Deep Pits	CATH. PROT. _____ _____ _____
Tie-in Number _____ Soap Test <input type="checkbox"/> Yes <input type="checkbox"/> No (Steel Only) Main Condition _____ <input type="checkbox"/> Good <input type="checkbox"/> Soft & Pitted <input type="checkbox"/> Deep Pits	CATH. PROT. _____ _____ _____

PRESSURE TEST OF GAS MAINS (One Test Per Sheet)



Pipe Size: _____ Length (ft): _____
 Pipe Size: _____ Length (ft): _____
 Pipe Size: _____ Length (ft): _____

Pressure System: TF \ SF \ CF \ IP \ MP \ LP

Test Medium: Water \ Air \ Gas Other: _____

Gauge Type: Recording _____ Indicating _____ Dead Weight _____

Gauge I.D. : _____

Calib. Date : _____

Test Date: _____

Start Time: _____ End Time: _____

Start Press.: _____ End Press.: _____

Start Temp.*: _____ End Temp.*: _____

* Water or Pipe temperature, not ambient

If Discharge volume is over 1,000 gallons - Contact Lab for sample collection.

Note all leaks or failures, including cause, and corrective action taken in comments below.

Crew Foreman: _____ Date: _____

Field Clerk: _____ Date: _____

District Supv.: _____ Date: _____

District Eng.: _____ Date: _____

Comments: _____