Book 2:
Project Plan Set & Standard Drawings

2021 Maintenance Hole Rehabilitation

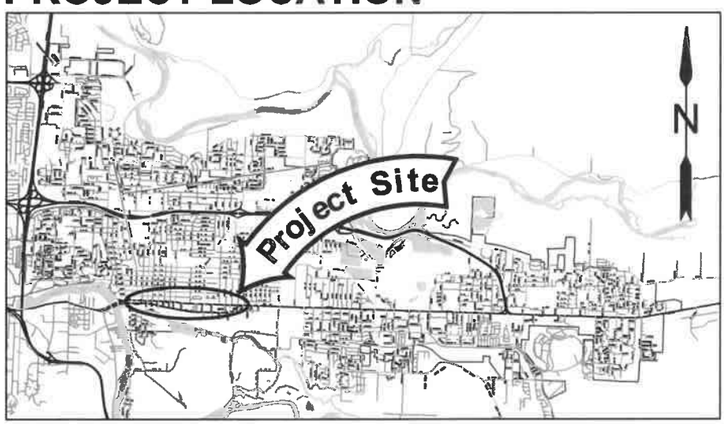
P21168

CITY OF SPRINGFIELD
DEVELOPMENT & PUBLIC WORKS

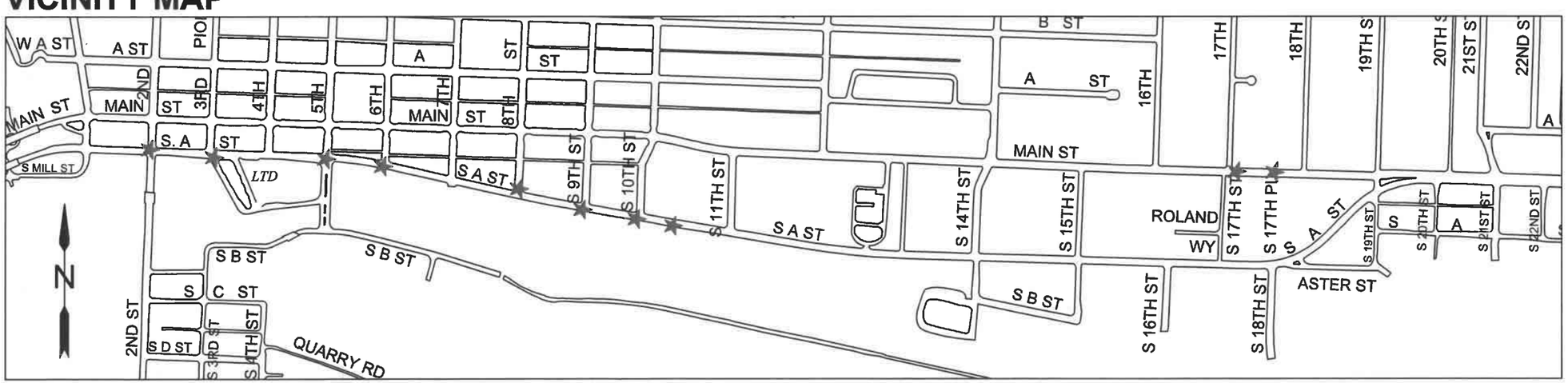
Project P21168
2021 MAINTENANCE HOLE REHBAILITATION

10 MAINTENANCE HOLE ADJUSTMENTS

PROJECT LOCATION



VICINITY MAP



SHEET INDEX

SHEET NO.	DESCRIPTION
A01-A04	TITLE, LEGEND, ABBR., LAYOUT, GEN NOTES
C01-C06	GENERAL CONSTRUCTION DETAILS
E01-E10	TEMPORARY TRAFFIC CONTROL DETAILS
F01	EROSION AND SEDIMENT CONTROL NOTES

STANDARD DRAWINGS

DWG NO.	DESCRIPTION
RD360	MANHOLE FRAME ADJUSTMENT
RD700	CURBS
RD1010	INLET PROTECTION
TM843	MULTI-LANE SIGNALIZED INTERSECTION DETAILS

No.	Revision/Issue	Date

811
Know what's below.
Call before you dig.

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Project P21168
2021 MAINTENANCE HOLE REHABILITATION

City of Springfield

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REGISTERED PROFESSIONAL ENGINEER
54699PE
OREGON
JULY 15, 2003
JEFFREY ALAN PASCHALL

EXP DATE: 12-31-2022

TITLE SHEET

NO SCALE	SHEET A01 OF 19
DRAWN BY: B. JABUSCH	
DESIGNED BY: J. PASHCALL	
CHECKED BY: K. KRUEGER	

October 5, 2021

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ABBREVIATIONS

AB	AGGREGATE BASE	DI	DUCTILE IRON	INV	INVERT	RCP	REINFORCED CONCRETE PIPE
ABAN	ABANDON(ED)	DIA	DIAMETER	LAT	LATERAL	RD	ROAD
ACP	ASPHALTIC CONCRETE PAVEMENT	DR	DRIVE	LDAP	LAND DRAINAGE & ALTERATION PERMIT	REINF	REINFORCE(D)(ING)(MENT)
AD	AREA DRAIN	DWG	DRAWING	LF	LINEAL FEET	REQ'D	REQUIRED
ADA	AMERICANS WITH DISABILITIES ACT	DWY	DRIVEWAY	LP	LOW POINT	RESTR	RESTRAINED
ADJ	ADJUST	EA	EACH	LPR	LOW PRESSURE	ROW	RIGHT-OF-WAY
AL	ALUMINUM	EC	END CURVE	LT	LEFT	RT	RIGHT
APPROX	APPROXIMATELY	EDOP	EDGE OF PAVEMENT	MATL(S)	MATERIALS	S/W	SIDEWALK
APPVD	APPROVED	EG	EXISTING GRADE	MAX	MAXIMUM	S	SLOPE
ARV	AIR RELEASE VALVE	EL	ELEVATION	MFR(S)	MANUFACTURER(S)	SCHED	SCHEDULE
ASSY	ASSEMBLY	ELEC	ELECTRIC, ELECTRICAL	MH(S)	MANHOLE(S)	SD	STORM DRAIN
ATB	ASPHALT TREATED BASE	EOP	END OF PROJECT	MHSD	MANHOLE STORM DRAIN	SDMH	STORM DRAIN MANHOLE
APPROX	APPROXIMATELY	EP	EDGE OF PAVEMENT	MHSS	MANHOLE SANITARY SEWER	SERV	SERVICE
APVD	APPROVED	EQ	EQUAL	MIN	MINIMUM	SHT(S)	SHEET(S)
BC	BEGIN CURVE	EQUIP	EQUIPMENT	MISC	MISCELLANEOUS	SL	SLOPE
BLDG	BUILDING	ESMT	EASEMENT	MJ	MECHANICAL JOINT	SPECS	SPECIFICATIONS
BM	BENCHMARK	EVC	END VERTICAL CURVE	MON	MONUMENT	SQ	SQUARE
BO	BLOWOFF	EX	EXISTING	MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES	SQFT	SQUARE FOOT, SQUARE FT
BOP	BEGINNING OF PROJECT	EXCAV	EXCAVATION	NO	NUMBER	SS	SANITARY SEWER
BTM	BOTTOM	FAB	FABRICATE	NTS	NOT TO SCALE	SST	STAINLESS STEEL
BVC	BEGIN VERTICAL CURVE	FD	FLOOR DRAIN	OC	ON CENTER	ST	STREET
C/G	CURB & GUTTER	FH	FIRE HYDRANT	OD	OUTSIDE DIAMETER	STA	STATION
CB	CATCH BASIN	FI	FIELD INLET	ODOT	OREGON DEPARTMENT OF TRANSPORTATION	STD	STANDARD
CCP	CONCRETE CULVERT PIPE	FIN GR	FINISHED GRADE	OVHD	OVERHEAD UTILITY	STL	STEEL
CFFL	CURB FACE FLOW LINE	FL	FLOW LINE	P	POWER	SUB	SPRINGFIELD UTILITY BOARD
CI	CURB INLET	FLG	FLOW LINE OF GUTTER	P/L	PROPERTY LINE	SW	SIDEWALK
CIP	CAST IN PLACE	FM	FORCE MAIN	PC	POINT OF CURVATURE	TB	THRUST BLOCK
CL	CENTER LINE	FT	FOOT, FEET	PCCP	PORTLAND CEMENT CONCRETE	TCP	TRAFFIC CONTROL PLAN
CLS	CLASS	FTG	FITTING	PERM	PERMANENT	TEL	TELEPHONE
CO	CLEANOUT	G	GAS	PI	POINT OF INTERSECTION	TEMP	TEMPORARY
CONC	CONCRETE	GB	GRADE BREAK	POLY	POLYETHYLENE	TFC	TOP FACE OF CURB
CONST	CONSTRUCT, CONSTRUCTION	GALV	GALVANIZED	PRC	POINT OF REVERSE CURVATURE	THK	THICK
CONT	CONTINUOUS	GR	GRADE	PRESS	PRESSURE	THRU	THROUGH
COP	COPPER	GRVL	GRAVEL	PROP	PROPOSED	TV	TELEVISION
COR	CORNER	GV	GATE VALVE	PS	PUMP STATION	TYP	TYPICAL
COS	CITY OF SPRINGFIELD	HMAC	HOT MIX ASPHALT CONCRETE	PT	POINT OF TANGENCY	VERT	VERTICAL(LY)
CPLG	COUPLING	HORIZ	HORIZONTAL	PUGD	UNDERGROUND POWER	W	WATER
CR	CRUSHED ROCK	HP	HIGH POINT	PV	PLUG VALVE	WM	WATER METER
CTB	CONCRETE TREATED BASE	HPR	HIGH PRESSURE	PVC	POLYVINYL CHLORIDE	WWMH	WASTEWATER MANHOLE
CV	CHECK VALVE	HWY	HIGHWAY	PVI	POINT OF VERTICAL INTERSECTION	VC	VERTICAL CURVE
CY	CUBIC YARD	ID	INSIDE DIAMETER	PVMT	PAVEMENT		
D	DRAIN	IE	INVERT ELEVATION	R	RATE		
DET	DETAIL	IN	INCH, INCHES	RAD	RADIUS		

LEGEND

CURB INLET

PROJECT MAINTENANCE HOLE

NON–PROJECT MAINTENANCE HOLE

CATCH BASIN

No.	Revision/Issue	Date

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JULY 15, 2003
JEFFREY ALAN PASCHALL

EXP DATE: 12-31-2022

ABBREVIATIONS, LEGEND

NO SCALE

DRAWN BY:	B. JABUSCH
DESIGNED BY:	J. PASHCALL
CHECKED BY:	K. KRUEGER

SHEET **A02** OF **19**

October 5, 2021

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2021 MAINTENANCE HOLE
REHABILITATION

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EXP DATE: 12-31-2022

IDENTIFICATION TABLE
NTS
SHEET A03 OF 19
DRAWN BY: B. JABUSCH
DESIGNED BY: J. PASHCALL
CHECKED BY: K. KRUEGER
October 5, 2021

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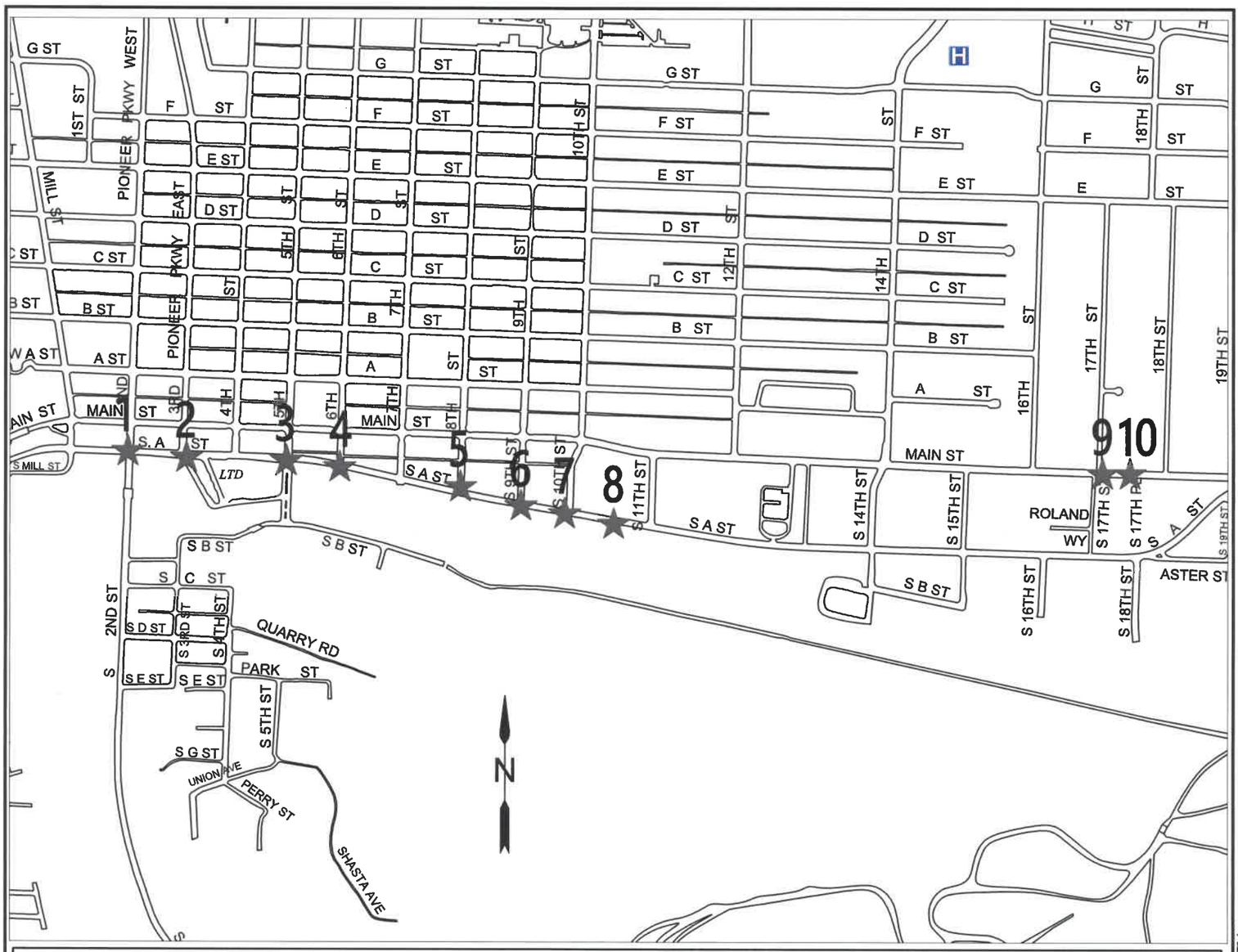

Maintenance Hole Identification

List	I.D. Number	Page Number	Nearest Intersection	Service Type	Proposed Sawcut
1	50050	C01	South A St & South 2nd St	STORM	DIAMOND
2	22596	C01	East Pioneer Parkway & South A St	SANITARY	DIAMOND
3	22656	C02	South 5th St & South A St	SANITARY	DIAMOND
4	22389	C02	South 6th St & South A St	SANITARY	DIAMOND
5	50294	C03	South 8th St & South A St	STORM	CIRCULAR
6	22404	C03	South 9th St & South A St	SANITARY	DIAMOND
7	22401	C04	South 10th St & South A St	SANITARY	DIAMOND
8	50300	C04	Midblock South A St between South 10th & South 11th	STORM	DIAMOND
9	50725	C05	17th St & Main St	STORM	DIAMOND
10	50724	C05	Midblock Main St between 17th St and 18th St	STORM	DIAMOND

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GENERAL CONSTRUCTION NOTES:

A. ALL MATERIALS AND WORKMANSHIP WITHIN THE PUBLIC RIGHT-OF-WAY OR PUBLIC EASEMENTS SHALL MEET STANDARD SPECIFICATIONS FOR CONSTRUCTION, AS SPECIFIED IN SECTION 'A' OF THE SPECIAL PROVISIONS IN ADDITION TO ALL OTHER SPECIFICATIONS REFERENCED OR INCLUDED, AND IN ADDITION TO THESE PLANS.

B. OREGON LAW REQUIRES THE CONTRACTOR TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0100. THE CONTRACTOR MAY OBTAIN COPIES OF THE RULES BY CALLING THE CENTER. NOTE: THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS (800) 332-2344 OR 811.

C. LOCATION AND/OR DEPTH OF EXISTING UTILITIES SHOWN ON PLANS ARE APPROXIMATE. ALL UTILITIES MAY NOT APPEAR ON PLANS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL UTILITY COMPANIES FOR UNDERGROUND LOCATION OF FACILITIES AT LEAST 48 HOURS PRIOR TO EXCAVATING OR "POTHOLING". THE "ONE-CALL" NUMBER (800) 332-2344 OR 811.

D. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH UTILITY COMPANIES ON THE TIMING OF INSTALLATION OF THEIR FACILITIES.

E. ALL SANITARY AND STORM SEWER CONNECTIONS TO EXISTING CITY OWNED FACILITIES (PIPE, CATCH BASINS, MANHOLES, ETC.) SHALL BE INSPECTED BY THE CONTRACTOR AND THE CITY'S DEVELOPMENT AND PUBLIC WORKS OPERATIONS DEPARTMENT PRIOR TO HOOK UP. CONTACT OPERATIONS AT (541-726-3761) OR CITY CONSTRUCTION INSPECTOR NO LESS THAN 48 HOURS PRIOR TO DESIRED INSPECTION TIME.

F. WHERE CONNECTING TO AN EXISTING PIPE. THE CONTRACTOR SHALL EXPOSE THE END OF THE EXISTING PIPE AND ALLOW THE ENGINEER TO VERIFY EXACT LOCATION AND ELEVATION, CONDITION, AND POSITIVE FLOW BEFORE LAYING ANY NEW PIPE ON THAT SYSTEM.

G. THE SEWER GRADE SHALL BE PER THE PLANS SPECIFICATIONS AND WITH THE MINIMUM COVER AS SHOWN ON THE PLANS

H. THE CONTRACTOR SHALL INTERNALLY TELEVISION INSPECT THE SEWER AFTER ALL BACKFILL AND BEFORE THE FINAL LIFT OF ASPHALT PAVING. THE CONTRACTOR SHALL SUPPLY THE CITY WITH A WRITTEN T.V. REPORT AND VIDEO TAPE OR DVD FOR CITY APPROVAL AT LEAST 2 WORKING DAYS BEFORE THE PRE-PAVING MEETING.

I. CONTRACTOR TO SCHEDULE A PRE-PAVING CONFERENCE 24 HOURS PRIOR TO PAVING. CONTACT THE CONSTRUCTION INSPECTOR.

J. ALL JOINTS BETWEEN EXISTING and NEW ASPHALT PAVING SHALL BE SEALED WITH POLYMERIZED ASPHALT AND SANDED TO PREVENT PICK UP.

K. COMPACTION REQUIREMENTS:

LAYER	RATE	TEST
SUBGRADE	95%	T99
CRUSHED ROCK	95%	T180
ASPHALT (LOCAL)	90%	RICE
ASPHALT (COLLECTOR/ARTERIAL)	92%	RICE

L. CONCRETE COMPRESSIVE STRENGTH REQUIREMENTS (PSI):

CONCRETE USE	FIELD	LABORATORY
SIDEWALK/ADA RAMPS	3000	3450
CURBS/GUTTERS	3500	4025
DRIVEWAYS	3500	4025
PAVEMENT	4000	4600

M. THIS PROJECT SHALL COMPLY WITH THE AMERICAN DISABILITIES ACT REQUIREMENTS SUCH AS INCORPORATION OF DESIGN CRITERIA FOR RAMPS, MAXIMUM PROFILE AND CROSS SECTION SLOPES FOR SIDEWALKS, UPGRADING EXISTING FACILITIES WHERE MAJOR CONSTRUCTION IS OCCURRING, AND BUILDING WARNING FOR OBJECTS IN SIDEWALK SUCH AS CURBING OR LANDSCAPING AROUND MAILBOXES.

N. CONTRACTOR IS RESPONSIBLE TO OBTAIN APPLICABLE PERMITS FROM OTHER AGENCIES WITH JURISDICTIONS SUCH AS LANE COUNTY, OREGON DEPARTMENT OF TRANSPORTATION, OREGON DIVISION OF STATE LANDS, THE ARMY CORPS OF ENGINEERS, OR THE DEPARTMENT OF ENVIRONMENTAL QUALITY.

O. ALL IMPROVEMENTS THAT WILL BE PRIVATELY OWNED AND MAINTAINED WILL BE BOUND BY THE CURRENT REQUIREMENTS OF THE STATE OF OREGON STRUCTURAL SPECIALTY CODE, PLUMBING SPECIALTY CODE, AND/OR CITY OF SPRINGFIELD BUILDING DIVISION REQUIREMENTS. CONTRACTOR IS RESPONSIBLE TO OBTAIN APPLICABLE PERMITS FROM OTHER CITY DEPARTMENTS PRIOR TO DOING PRIVATE WORK.

P. EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO THE START OF CONSTRUCTION. SEE EROSION CONTROL PLAN.

Q. STREET TREES: ONLY STREET TREES WITH A MINIMUM TRUNK CALIPER OF 2 IN. MEASURED 6 IN. ABOVE THE ROOT STEM SHALL BE SELECTED FOR PLANTING.

R. A PRE-CONSTRUCTION CONFERENCE IS REQUIRED BEFORE START OF CONSTRUCTION. ALL UTILITIES, CONTRACTORS and CITY REPRESENTATIVES SHALL HAVE RECEIVED THE FINAL APPROVED PLANS AT LEAST 5 WORKING DAYS PRIOR TO THE PRE CONSTRUCTION CONFERENCE.

S. THE ENGINEER AND/OR CITY HAVE THE RIGHT TO REQUIRE ADDITIONAL WORK NOT SHOWN HEREIN BUT NECESSARY FOR THE SUCCESSFUL COMPLETION OF THE PROJECT. STD.SPEC. 104.08.

T. REQUESTS BY THE CONTRACTOR FOR CHANGES SHALL BE APPROVED BY THE ENGINEER AND THE CITY IN WRITING PRIOR TO IMPLEMENTATION.

U. CONTRACTOR SHALL BE AWARE IF PAVING IS NOT SCHEDULED OR DOES NOT OCCUR PRIOR TO OCTOBER 15TH, WET WEATHER PROVISIONS INCLUDING ADDITIONAL ROCK SUBSTRUCTURE AND GEOTEXTILE FABRIC SHALL USED. REFER TO STANDARD SPECIFICATION SECTION 301.1.01 AND THE TYPICAL CROSS SECTIONS CONTAINED HEREIN FOR DETAILS.

V. THE CONTRACTOR SHALL VERIFY EACH EXISTING SANITARY AND STORM CONNECTION.

No.	Revision Details	Date

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JULY 15, 2003
JEFFREY ALAN PASCHALL

EXP DATE: 12-31-2022

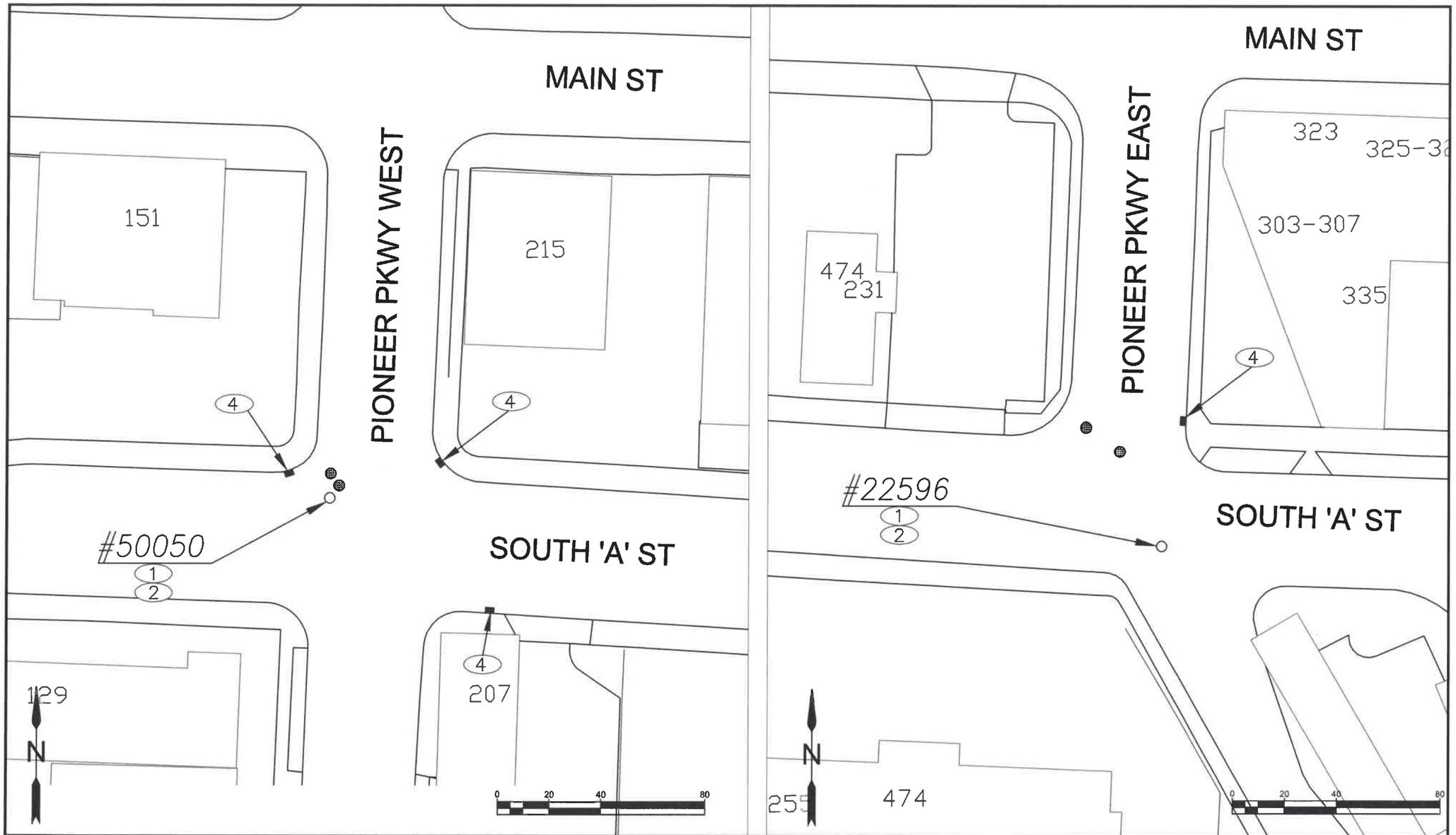
GEN. CONSTRUCTION NOTES

NO SCALE

DRAWN BY: B. JABUSCH
DESIGNED BY: J. PASHCALL
CHECKED BY: K. KRUEGER

SHEET A04 OF 19

October 5, 2021



CONSTRUCTION NOTES:

1. DIAMOND SAWCUT AROUND M.H.
2. ADJUST M.H. AND RESTORE CONCRETE APRON TO MATCH EXISTING GRADE – SEE ODOT STANDARD DRAWING RD360
4. CATCH BASIN PROTECTION – TYPE 3 PREFABRICATED FILTER INSERT – SEE STANDARD DRAWING RD1010

		Date

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GEN CONSTRUCTION DETAILS

SCALE: 1" = 40'

DRAWN BY:	B. JABUSCH
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SHEET C01 OF 19

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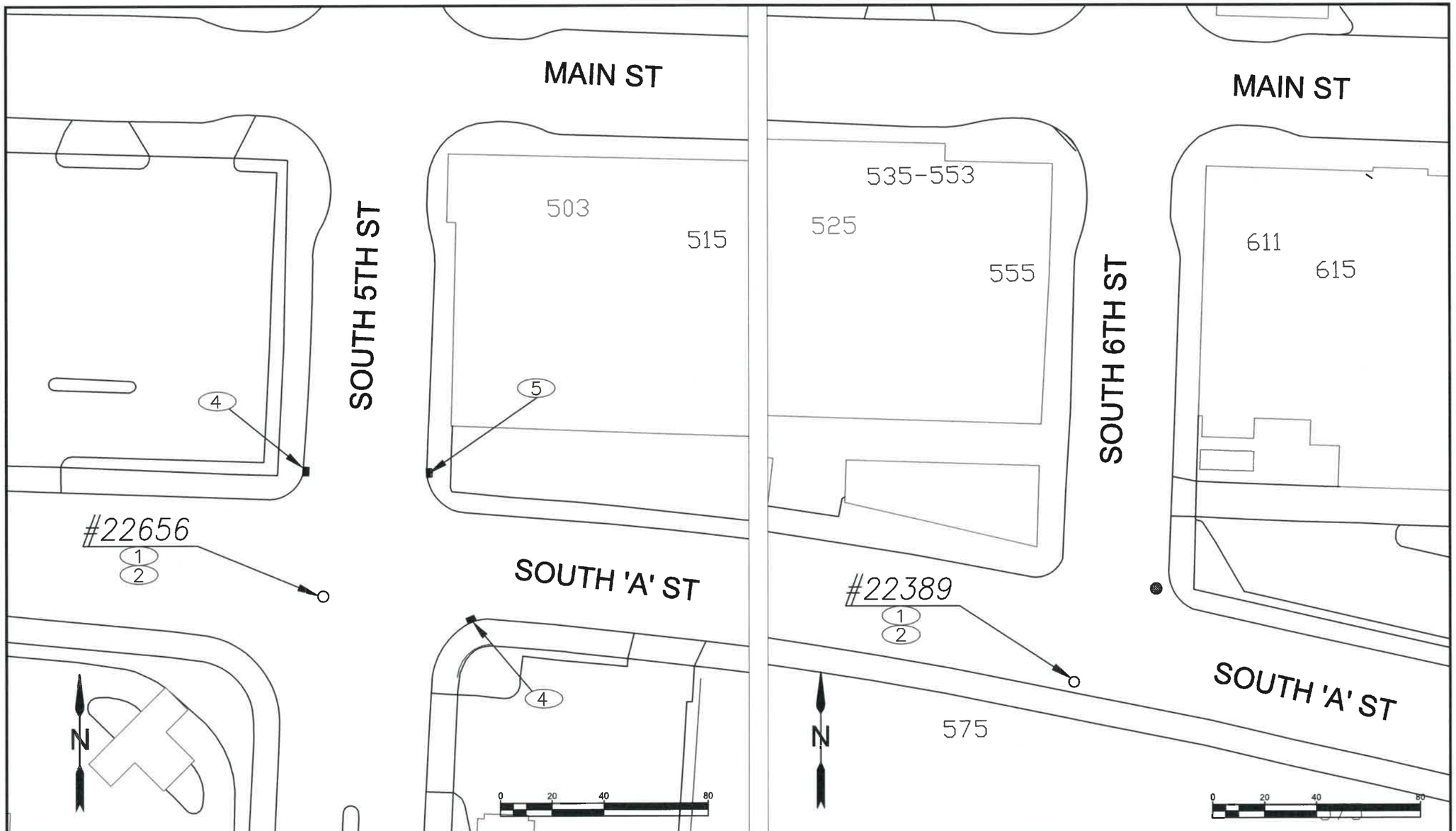

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4. CATCH BASIN PROTECTION – TYPE 3 PREFABRICATED FILTER INSERT – SEE STANDARD DRAWING RD1010
5. CURB INLET PROTECTION – TYPE 10 SEDIMENT DAM – SEE STANDARD DRAWING RD1010

No	Description	Date

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SHEET C02 OF 19

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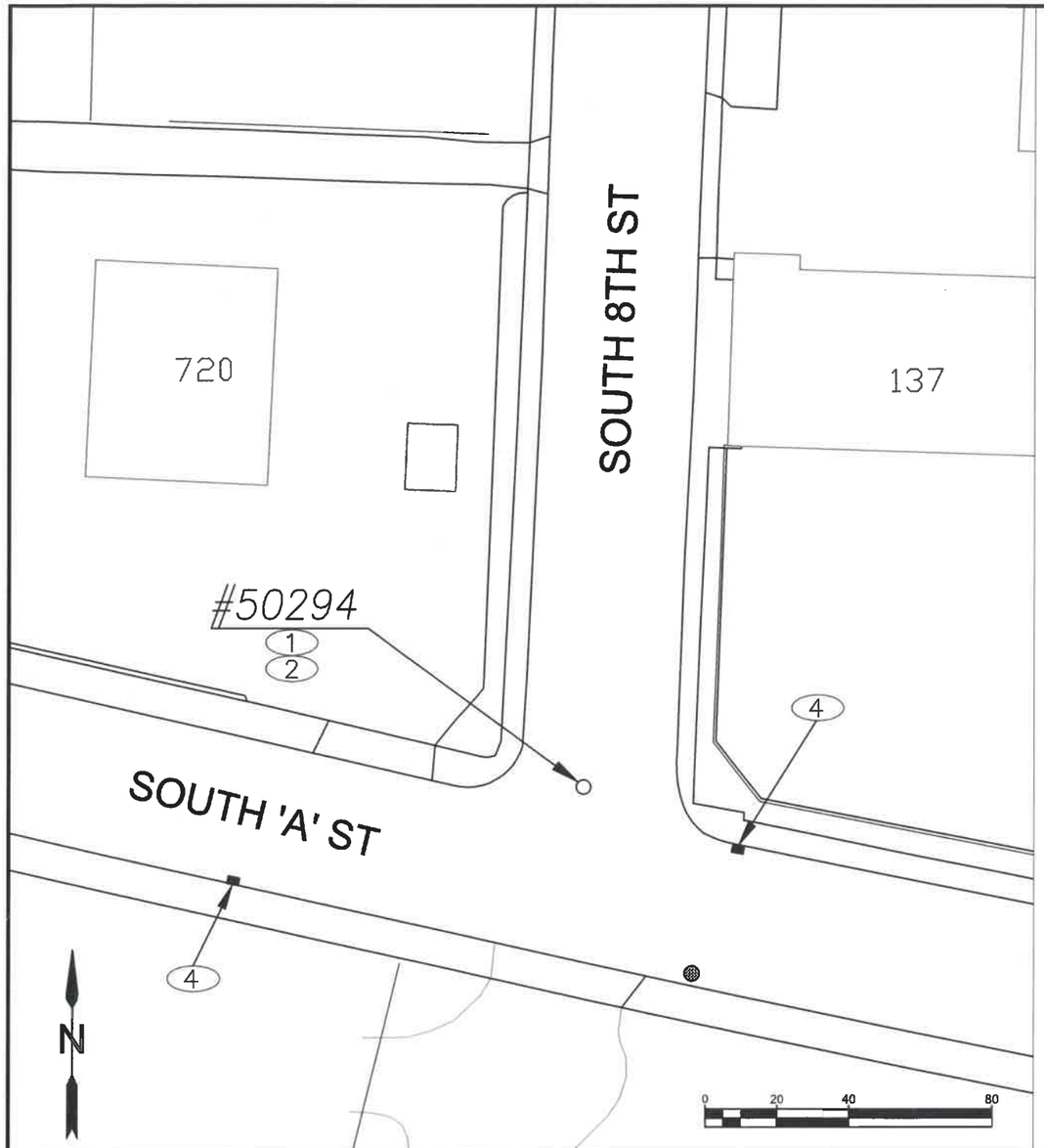

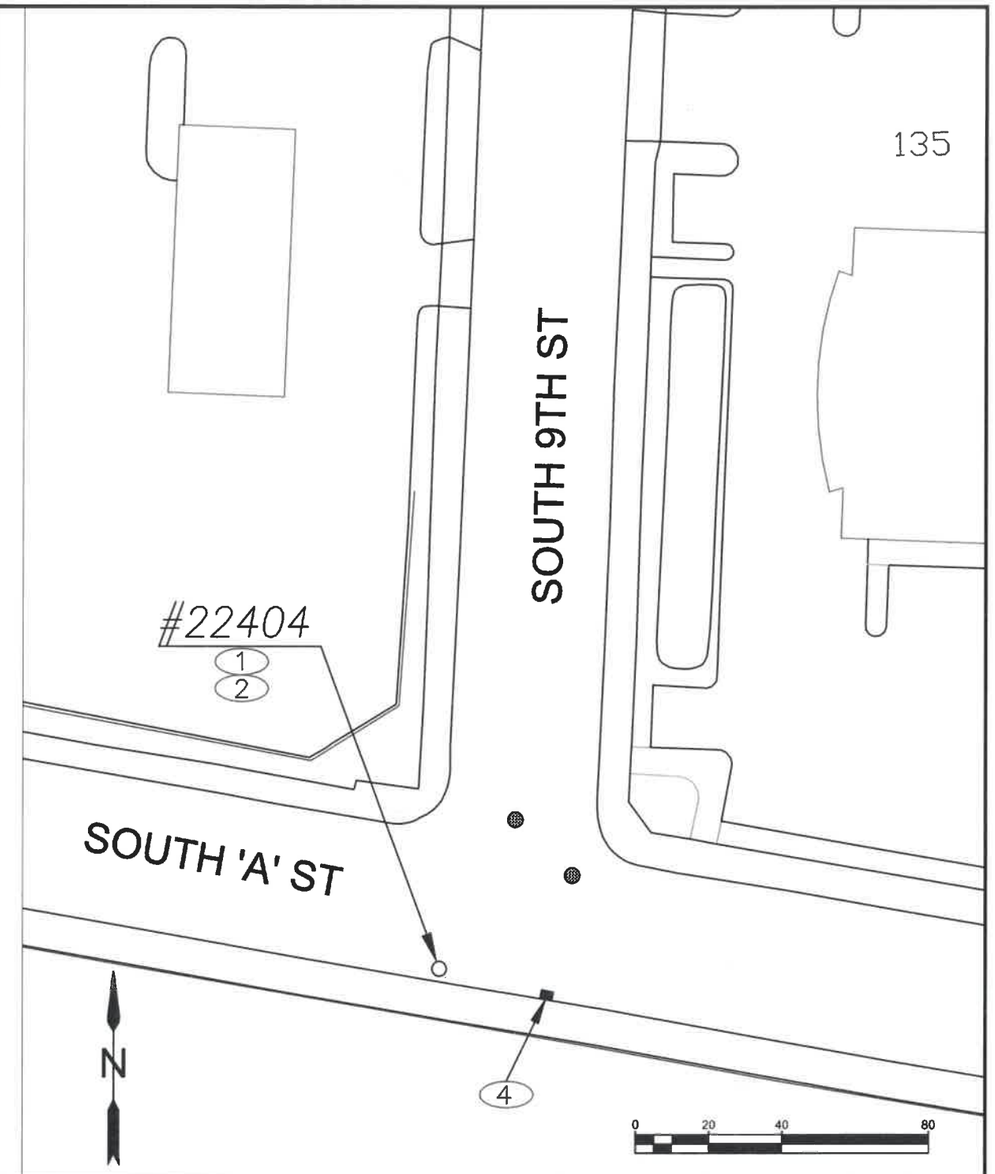

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4. CATCH BASIN PROTECTION – TYPE 3 PREFABRICATED FILTER INSERT – SEE STANDARD DRAWING RD1010

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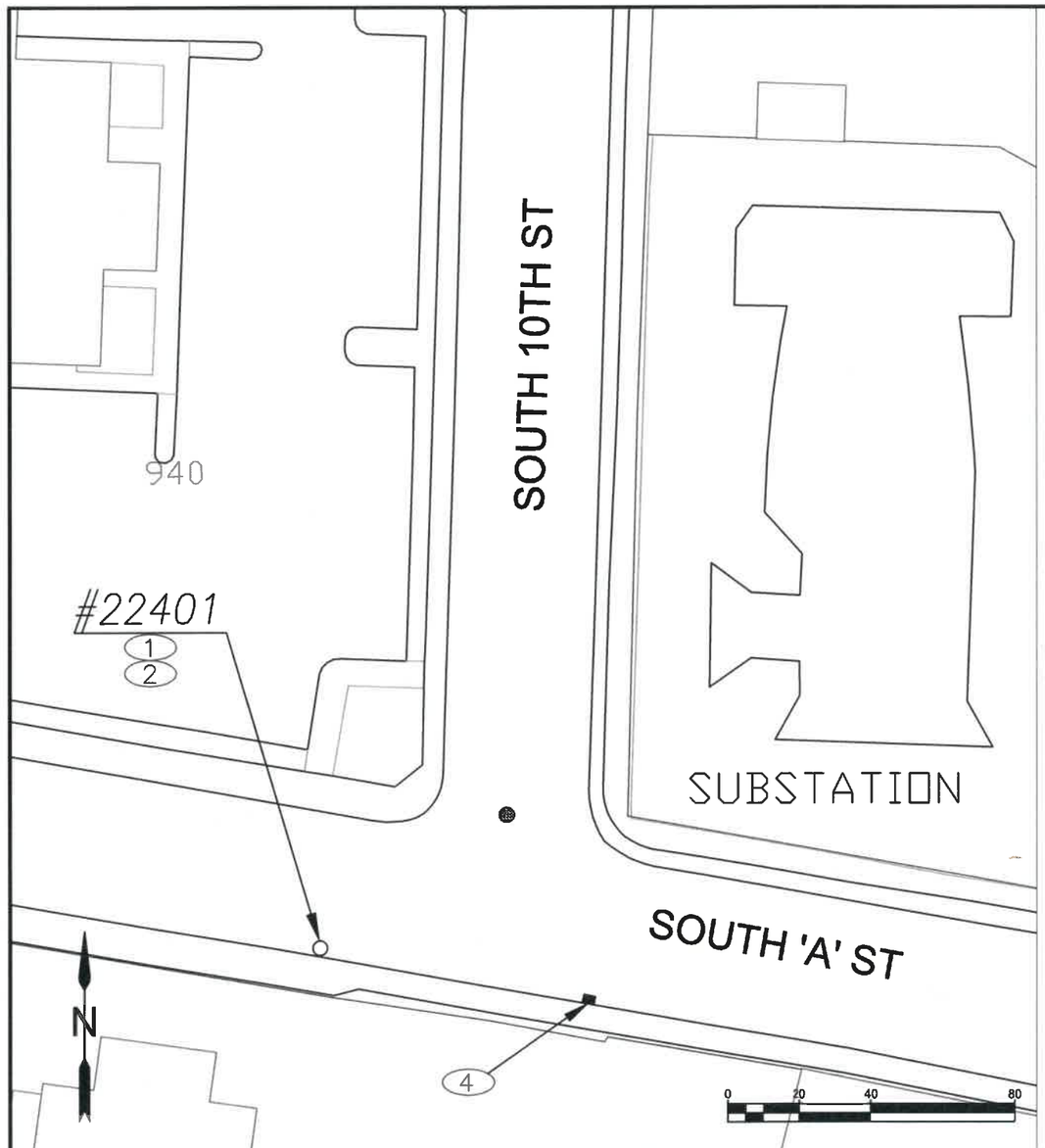

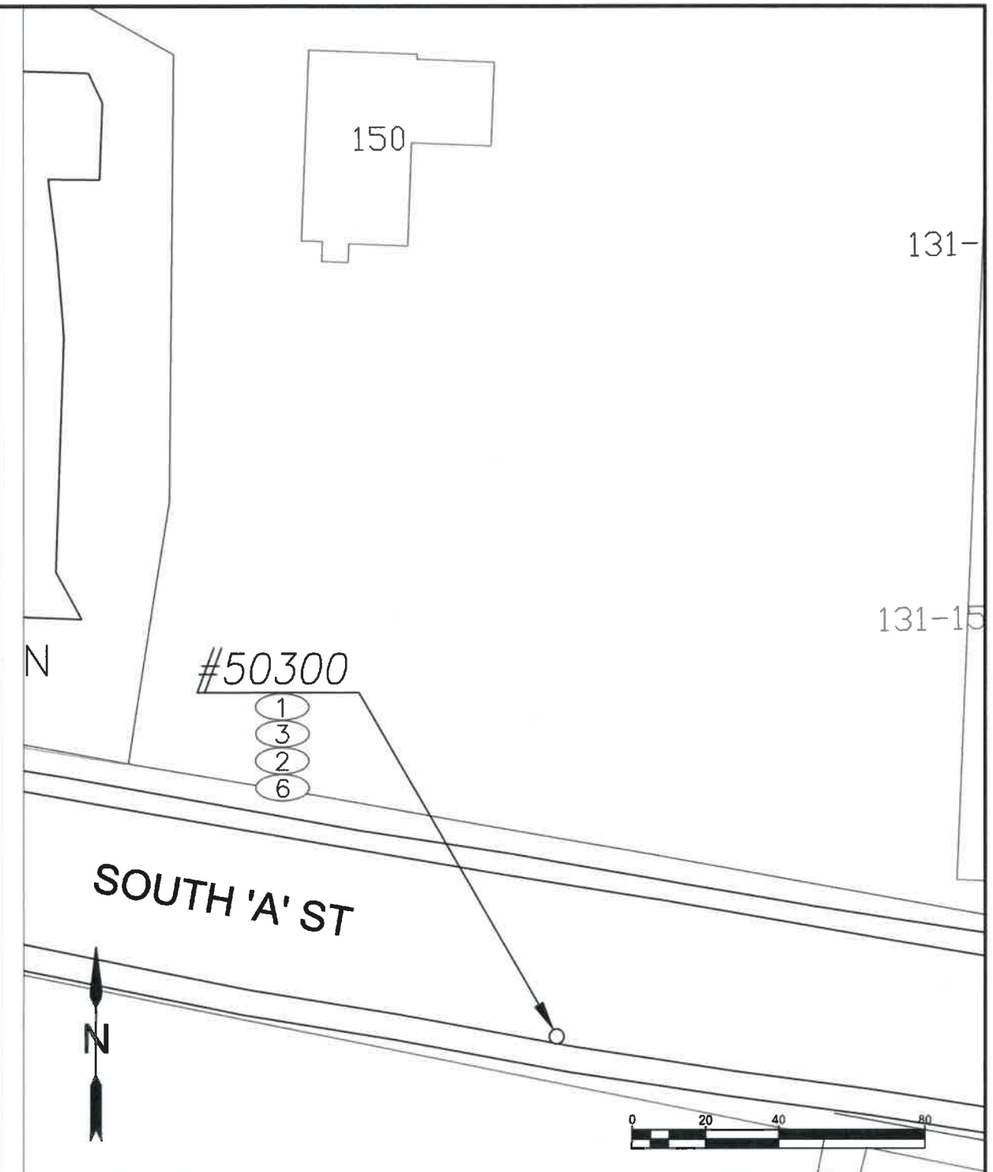

CONSTRUCTION NOTES:

1. DIAMOND SAWCUT AROUND M.H.
2. ADJUST M.H. AND RESTORE CONCRETE APRON TO MATCH EXISTING GRADE – SEE ODOT STANDARD DRAWING RD360
3. SAW CUT CURB AND GUTTER ADJACENT TO M.H.
4. CATCH BASIN PROTECTION – TYPE 3 PREFABRICATED FILTER INSERT – SEE STANDARD DRAWING RD1010
6. RESTORE CURB AND GUTTER ADJACENT TO M.H. – SEE ODOT STANDARD DRAWING RD700

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DESIGNED BY:	J. PASHCALL
CHECKED BY:	K. KRUEGER

SHEET C04 OF 19

October 5, 2021

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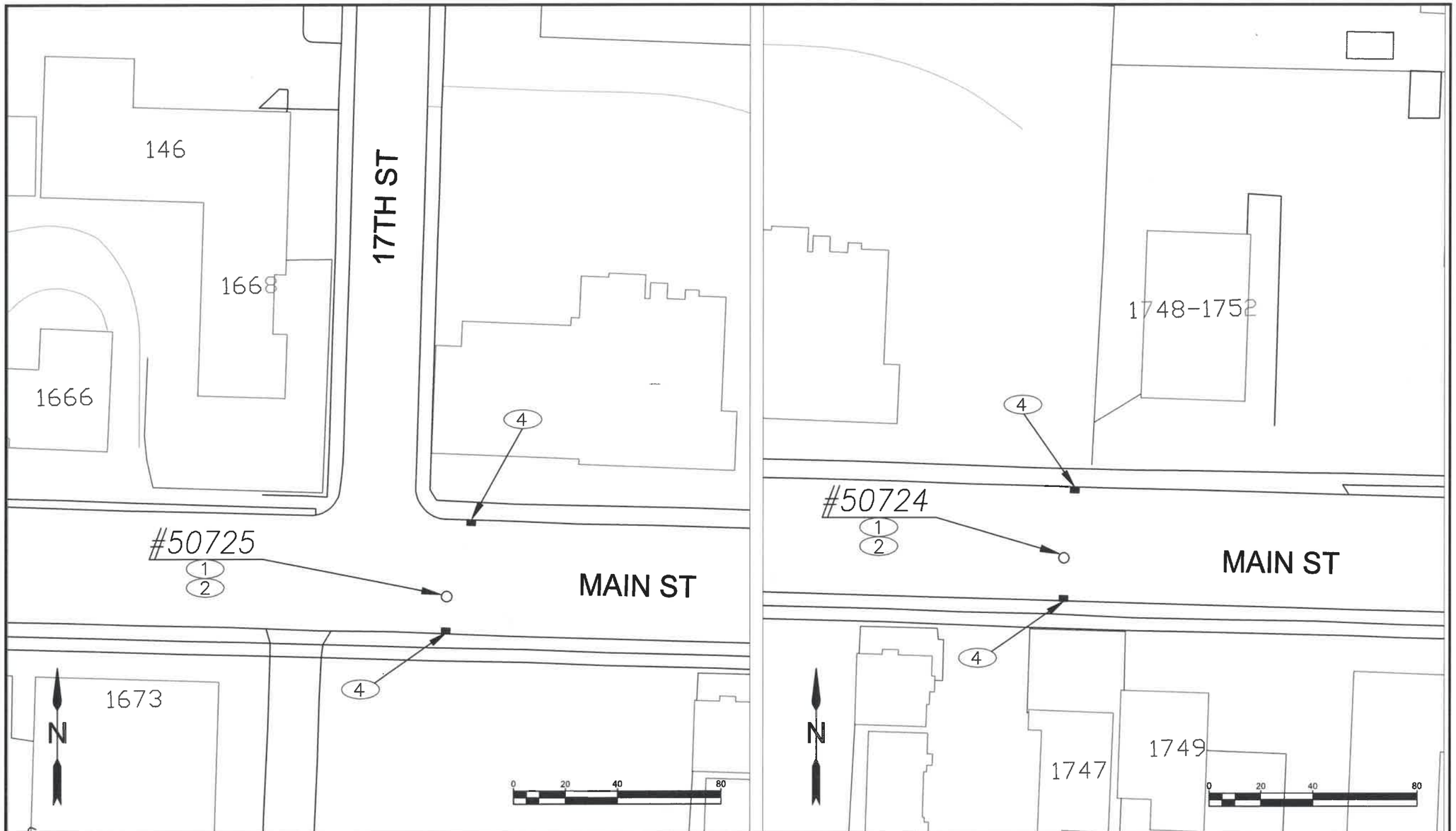

CONSTRUCTION NOTES:

1. DIAMOND SAWCUT AROUND M.H.
2. ADJUST M.H. AND RESTORE CONCRETE APRON TO MATCH EXISTING GRADE – SEE ODOT STANDARD DRAWING RD360
4. CATCH BASIN PROTECTION – TYPE 3 PREFABRICATED FILTER INSERT – SEE STANDARD DRAWING RD1010

	Revision / Issue	Date

811
Know what's **below.**
Call before you dig.

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Project P21168
2021 MAINTENANCE HOLE REHABILITATION

City of Springfield

PUBLIC WORKS / ENGINEERING
225 FIFTH STREET, SPRINGFIELD, OR 97477
PHONE (541) 726-3753 FAX (541) 726-3689
INTERNET www.springfield-or.gov

SPRINGFIELD OREGON

REGISTERED PROFESSIONAL ENGINEER
54699PE
OREGON
JULY 15, 2003
JEFFREY ALAN PASCHALL

EXP DATE: 12-31-2022

GEN CONSTRUCTION DETAILS

SCALE: 1" = 40'

DRAWN BY:	B. JABUSCH
DESIGNED BY:	J. PASHCALL
CHECKED BY:	K. KRUEGER

SHEET **C05** OF **19**

October 5, 2021

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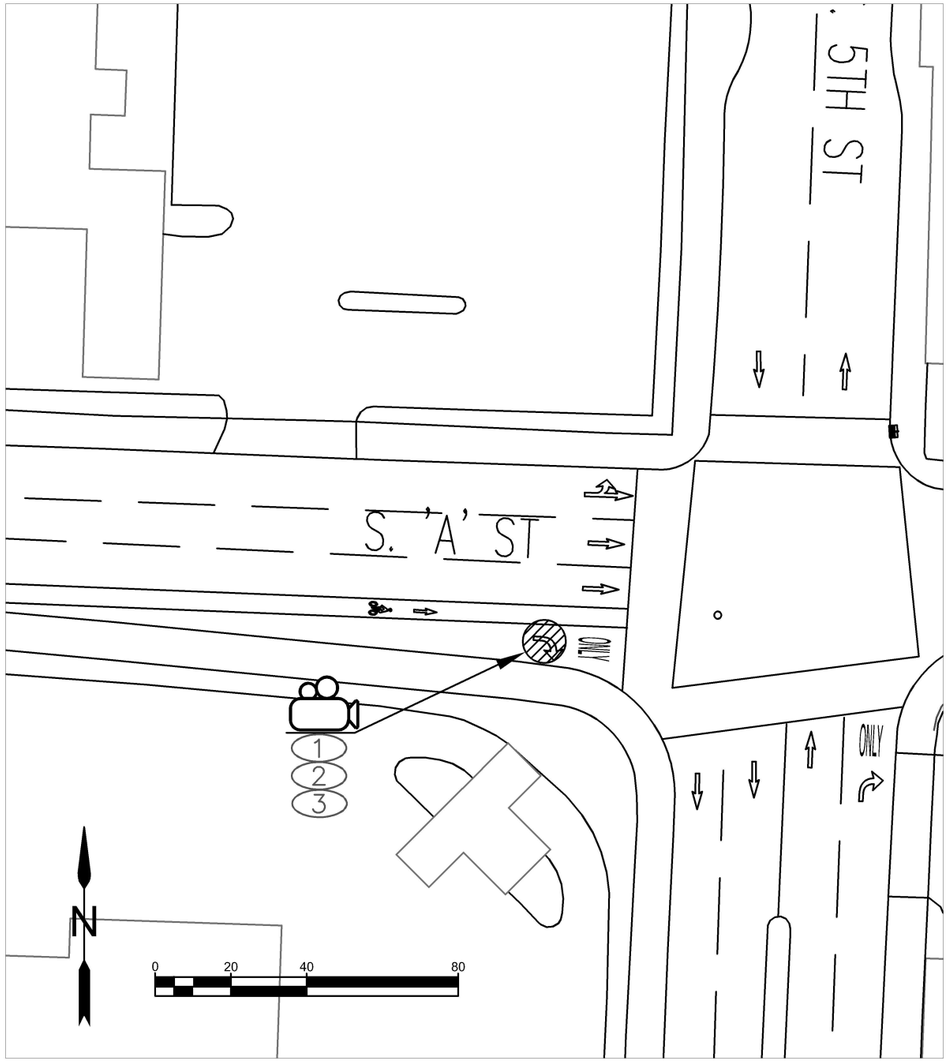
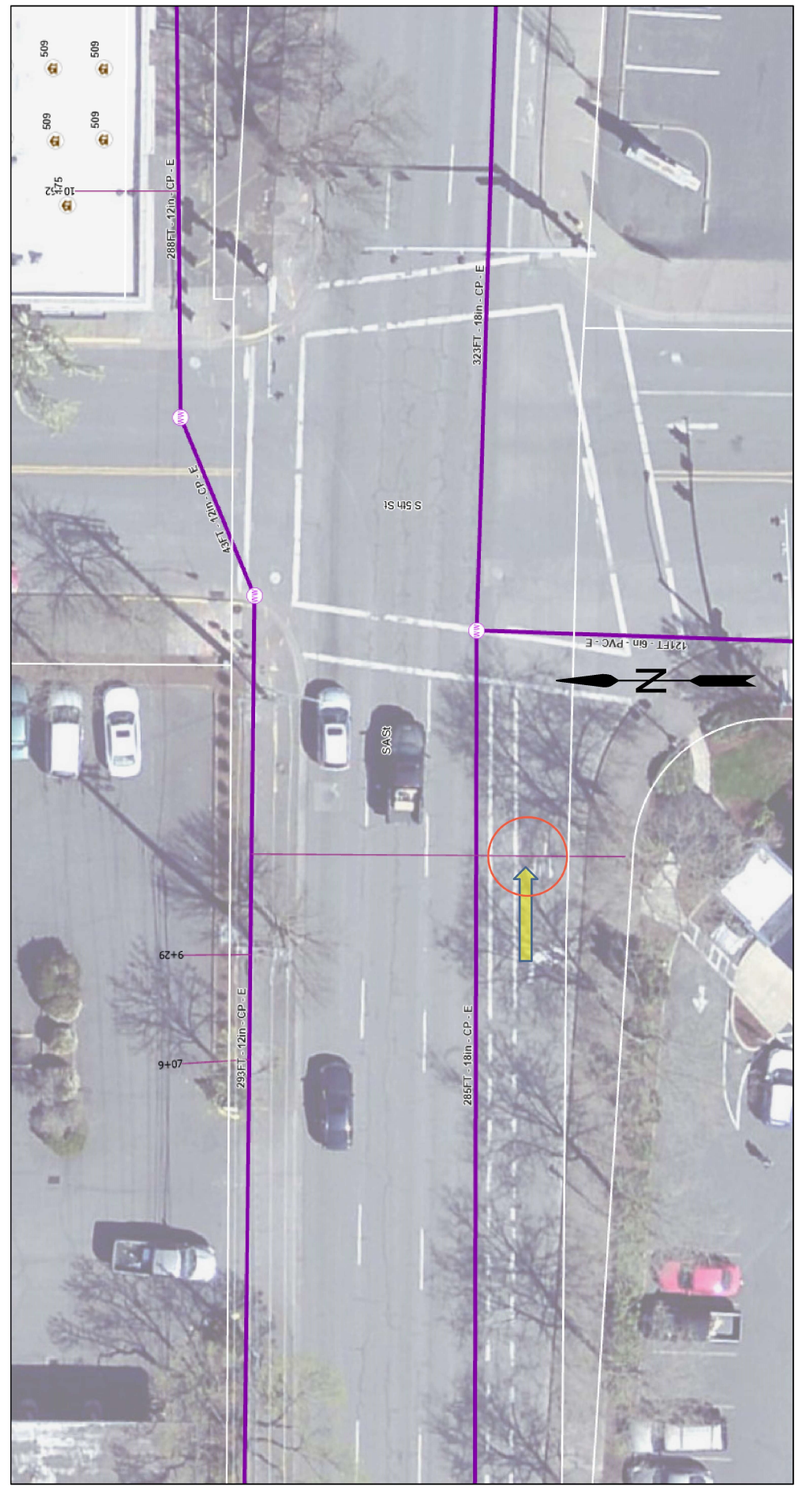


CONSTRUCTION NOTES:

1. STREET CUT – REFER TO ODOT STD DWG RD302
2. EXCAVATE TO LATERAL AND RETRIEVE INSPECTION CAMERA – BID ITEM 5
3. RESTORE SEWER LATERAL PIPE AND ACP TO MATCH EXISTING GRADES

Push Camera Retrieval (S A & 5th) updated



No.	Revision/Issue	Date

811
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SPRINGFIELD OREGON

REGISTERED PROFESSIONAL ENGINEER
54699PE
OREGON
JULY 15, 2003
JEFFREY ALAN PASCHALL

EXP DATE: 12-31-2022

GEN CONSTRUCTION DETAILS

DRAWN BY:	B. JABUSCH
DESIGNED BY:	J. PASHCALL
CHECKED BY:	K. KRUEGER

SHEET **C06** OF **19**

November 15, 2021

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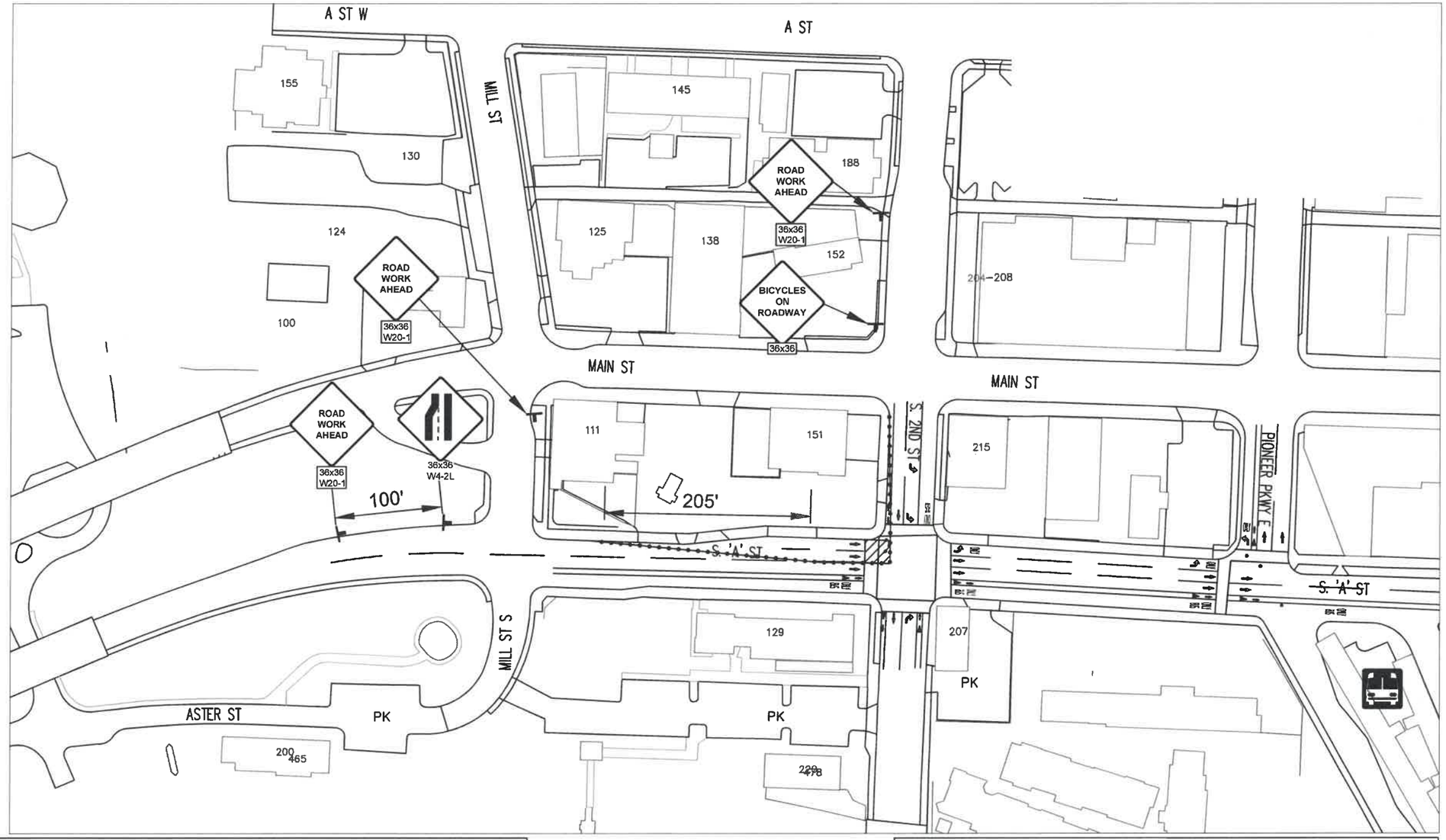

TRAFFIC CONTROL NOTES:

- SEE STD DWG TM844 'SIDEWALK CLOSURE, CORNER' FOR TEMPORARY PEDESTRIAN ACCESS ROUTING
- TCP EQUIPMENT SHALL BE IN ACCORDANCE WITH OTTCH SECTION 4.1 SIGNS AND 4.2 BARRICADES, CONES, DRUMS, AND TUBULAR MARKERS

SPEED LIMIT 35

MH ID#: 50050

0 25 50 100 200

N

LEGEND:

- TEMPORARY TRAFFIC CONTROL SIGN AND SUPPORT
- TRAFFIC CONES
- BUS STOP
- WORK ZONE

No.	Revision/Issue	Date

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City of Springfield

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PHONE (541) 726-3753 FAX (541) 726-3689
INTERNET: www.springfield-or.gov

REGISTERED PROFESSIONAL ENGINEER
19697PE
OREGON
MAY 5, 1998
BRIAN F. BARNETT

9-29-21

EXP DATE: 12-31-2021

TITLE SHEET

1"=100'	SHEET E01 OF 19
DRAWN BY: B. JABUSCH	
DESIGNED BY: J. PASHCALL	
CHECKED BY: K. KRUEGER	

September 27, 2021

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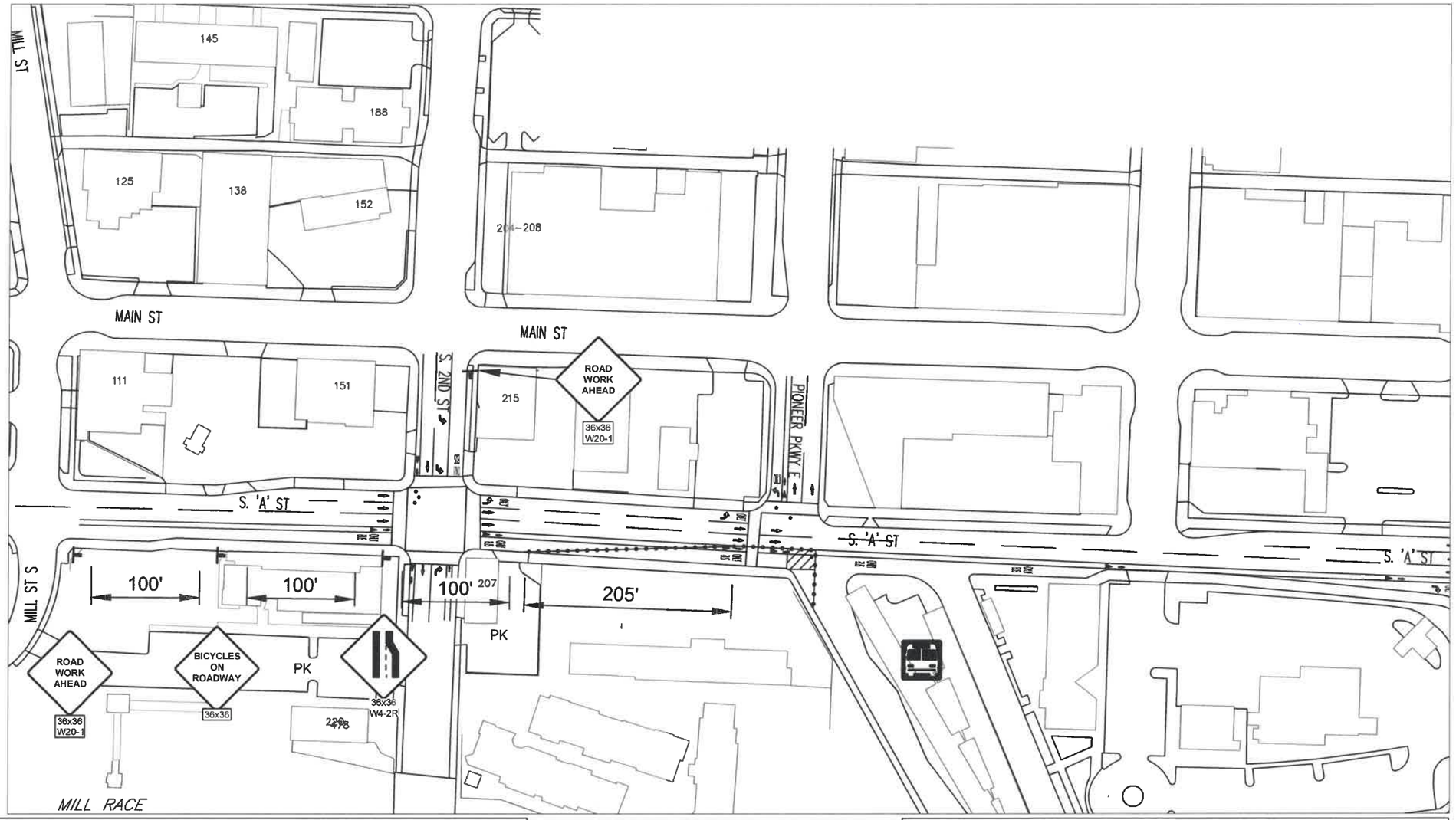

TRAFFIC CONTROL NOTES:

- SEE STD DWG TM844 'SIDEWALK CLOSURE, CORNER' FOR TEMPORARY PEDESTRIAN ACCESS ROUTING
- TCP EQUIPMENT SHALL BE IN ACCORDANCE WITH OTTCH SECTION 4.1 SIGNS AND 4.2 BARRICADES, CONES, DRUMS, AND TUBULAR MARKERS

SPEED LIMIT 35

MH ID#: 22596

0 25 50 100 200

N

LEGEND:

- TEMPORARY TRAFFIC CONTROL SIGN AND SUPPORT
- TRAFFIC CONES
- BUS STOP
- WORK ZONE

No.	Revision/issue	Date

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PHONE: (541) 726-3753 FAX: (541) 726-3689
INTERNET www.springfield-or.gov

SPRINGFIELD OREGON

REGISTERED PROFESSIONAL ENGINEER 19697PE OREGON MAY 5, 1998 BRIAN E. BARNETT

9-27-21

EXP DATE: 12-31-2021

TITLE SHEET

1"=100'	
DRAWN BY:	B. JABUSCH
DESIGNED BY:	J. PASHCALL
CHECKED BY:	K. KRUEGER

SHEET E02 OF 19

September 27, 2021

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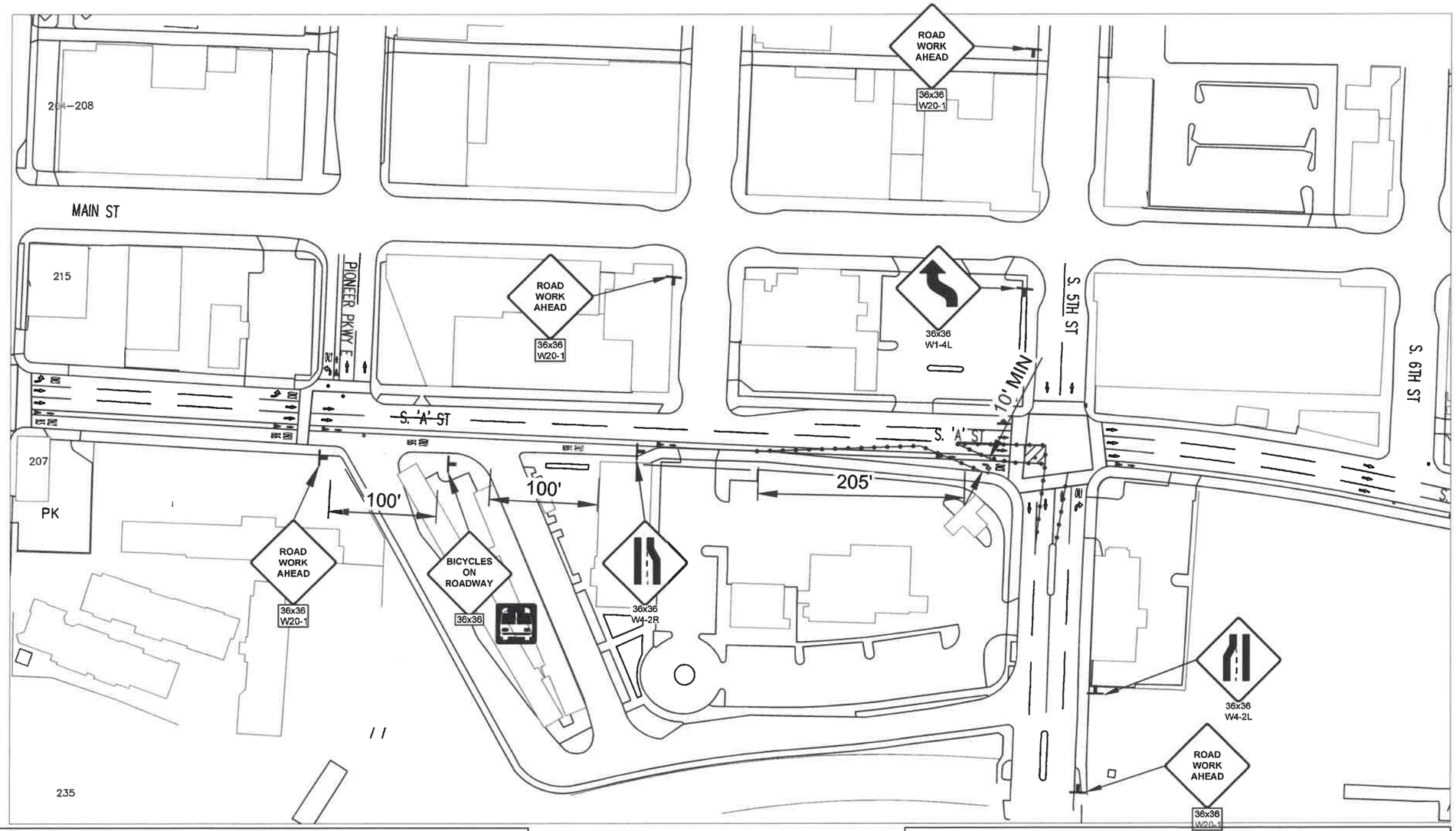

TRAFFIC CONTROL NOTES:

- TCP EQUIPMENT SHALL BE IN ACCORDANCE WITH OTTCH SECTION 4.1 SIGNS AND 4.2 BARRICADES, CONES, DRUMS, AND TUBULAR MARKERS
- USE ODOT STD DWG TM843 MULTI–LANE SIGNALIZED INTERSECTION DETAILS FOR REFERENCE

SPEED LIMIT 35

MH ID#: 22656

0 25 50 100 200

N

LEGEND:

- TEMPORARY TRAFFIC CONTROL SIGN AND SUPPORT
- TRAFFIC CONES
- BUS STOP
- WORK ZONE

No.	Revision/Issue	Date

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SPRINGFIELD OREGON

REGISTERED PROFESSIONAL ENGINEER 19697PE OREGON MAY 5, 1998 BRIAN F. BARNETT

9-29-21

EXP DATE: 12-31-2021

TITLE SHEET

1"=100'	SHEET E03 OF 19
DRAWN BY: B. JABUSCH	
DESIGNED BY: J. PASHCALL	
CHECKED BY: K. KRUEGER	

September 27, 2021

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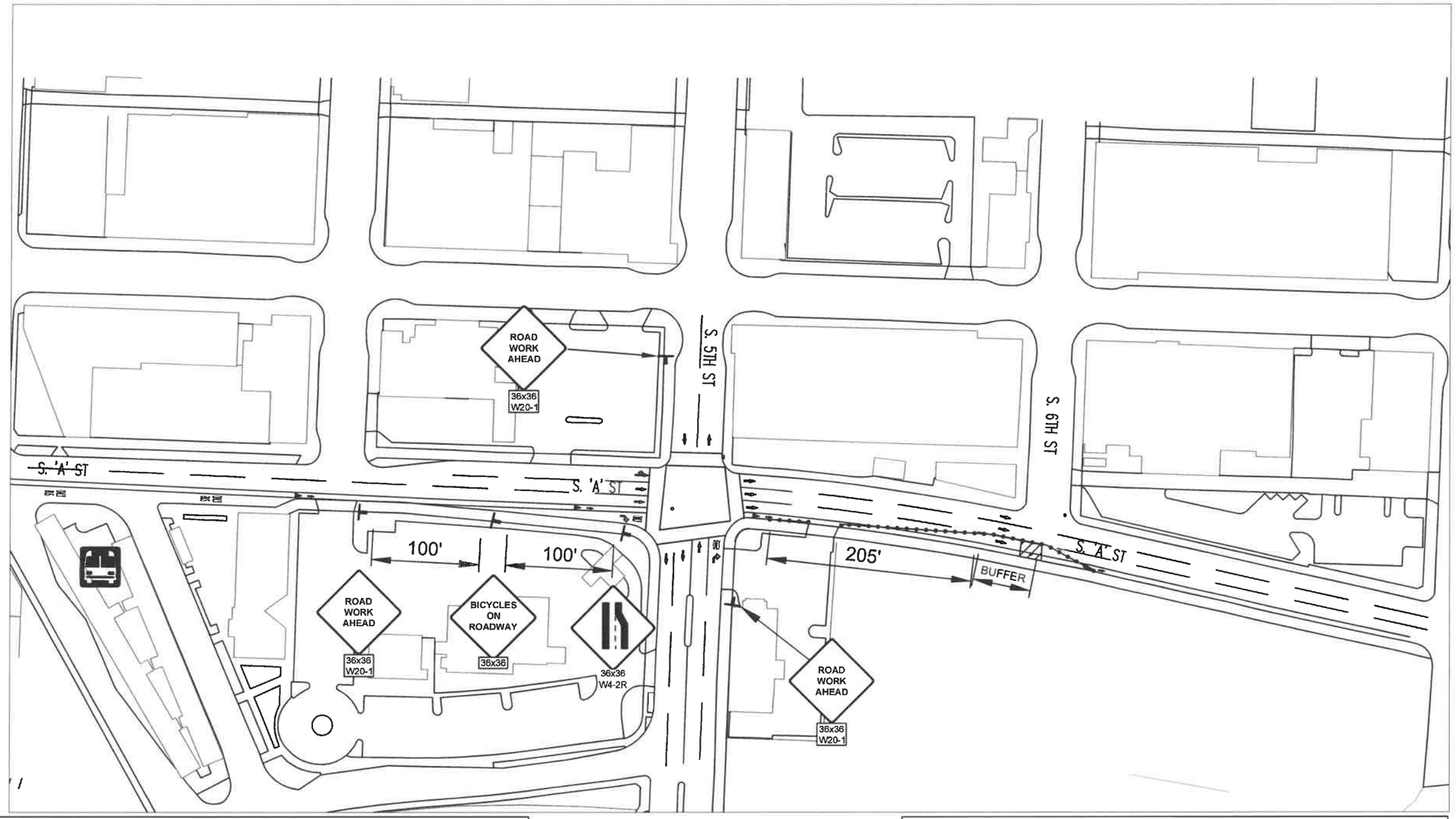

TRAFFIC CONTROL NOTES:

- SEE STD DWG TM844 'SIDEWALK CLOSURE, MIDBLOCK' FOR TEMPORARY PEDESTRIAN ACCESS ROUTING
- TCP EQUIPMENT SHALL BE IN ACCORDANCE WITH OTTCH SECTION 4.1 SIGNS AND 4.2 BARRICADES, CONES, DRUMS, AND TUBULAR MARKERS

SPEED LIMIT 35

MH ID#: 22389

0 25 50 100 200

N

LEGEND:

- TEMPORARY TRAFFIC CONTROL SIGN AND SUPPORT
- TRAFFIC CONES
- BUS STOP
- WORK ZONE

No.	Revision/Issue	Date

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City of Springfield

PUBLIC WORKS / ENGINEERING
225 FIFTH STREET, SPRINGFIELD, OR 97477
PHONE: 541-726-3753 FAX: 541-726-3689
INTERNET www.springfield-or.gov

SPRINGFIELD OREGON

REGISTERED PROFESSIONAL ENGINEER 19697PE OREGON MAY 5, 1998 BRIAN F. BARNETT

9-27-21

EXP DATE: 12-31-2021

TITLE SHEET

1"=100'

DRAWN BY: B. JABUSCH
DESIGNED BY: J. PASHCALL
CHECKED BY: K. KRUEGER

SHEET E04 OF 19

September 27, 2021

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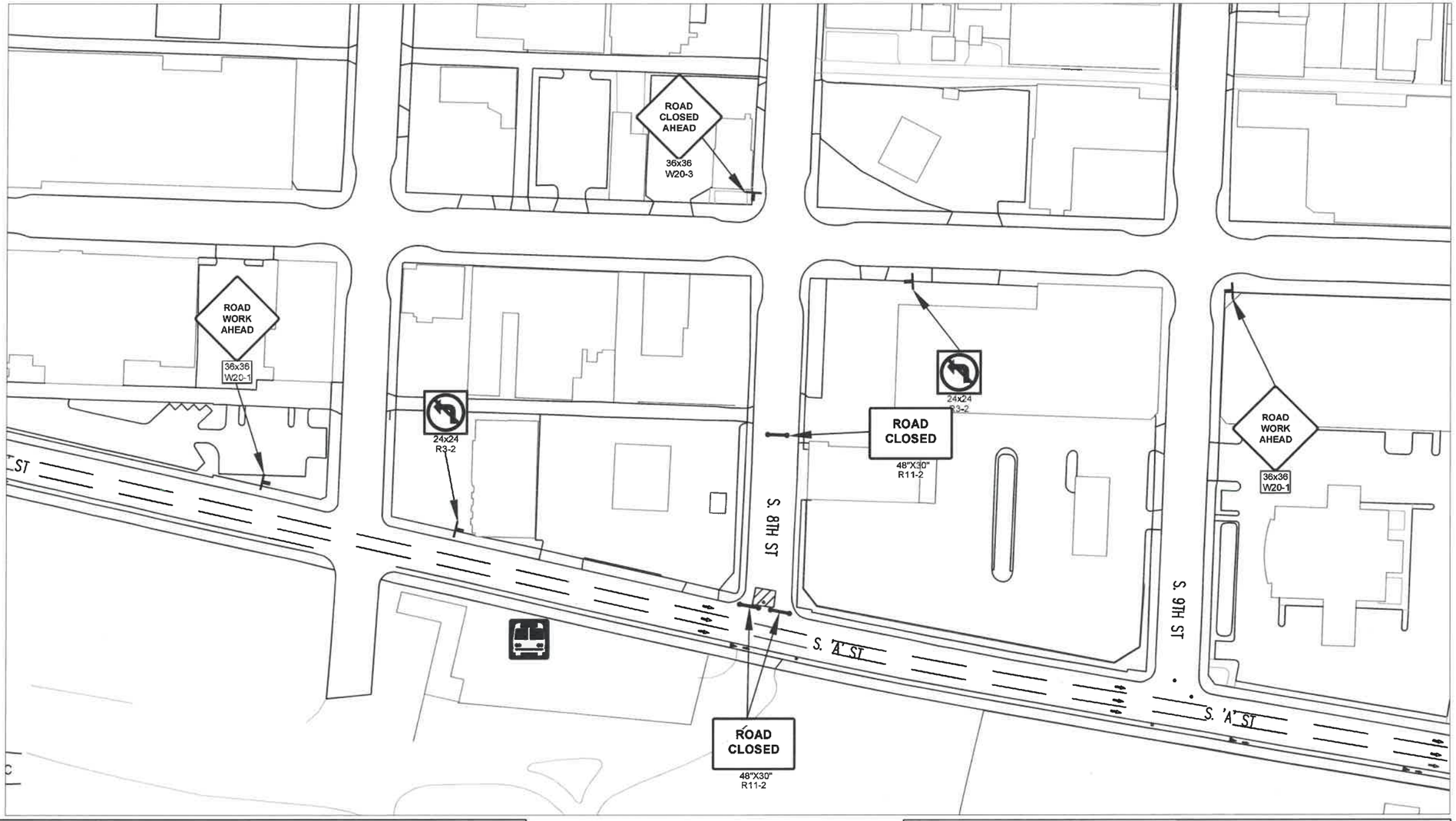

TRAFFIC CONTROL NOTES:

- TCP EQUIPMENT SHALL BE IN ACCORDANCE WITH OTTCH SECTION 4.1 SIGNS AND 4.2 BARRICADES, CONES, DRUMS, AND TUBULAR MARKERS

SPEED LIMIT 35

MH ID#: 50294

0 25 50 100 200

N

LEGEND:

- TEMPORARY TRAFFIC CONTROL SIGN AND SUPPORT
- TRAFFIC CONES
- BUS STOP
- WORK ZONE

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No.	Revision/Issue	Date

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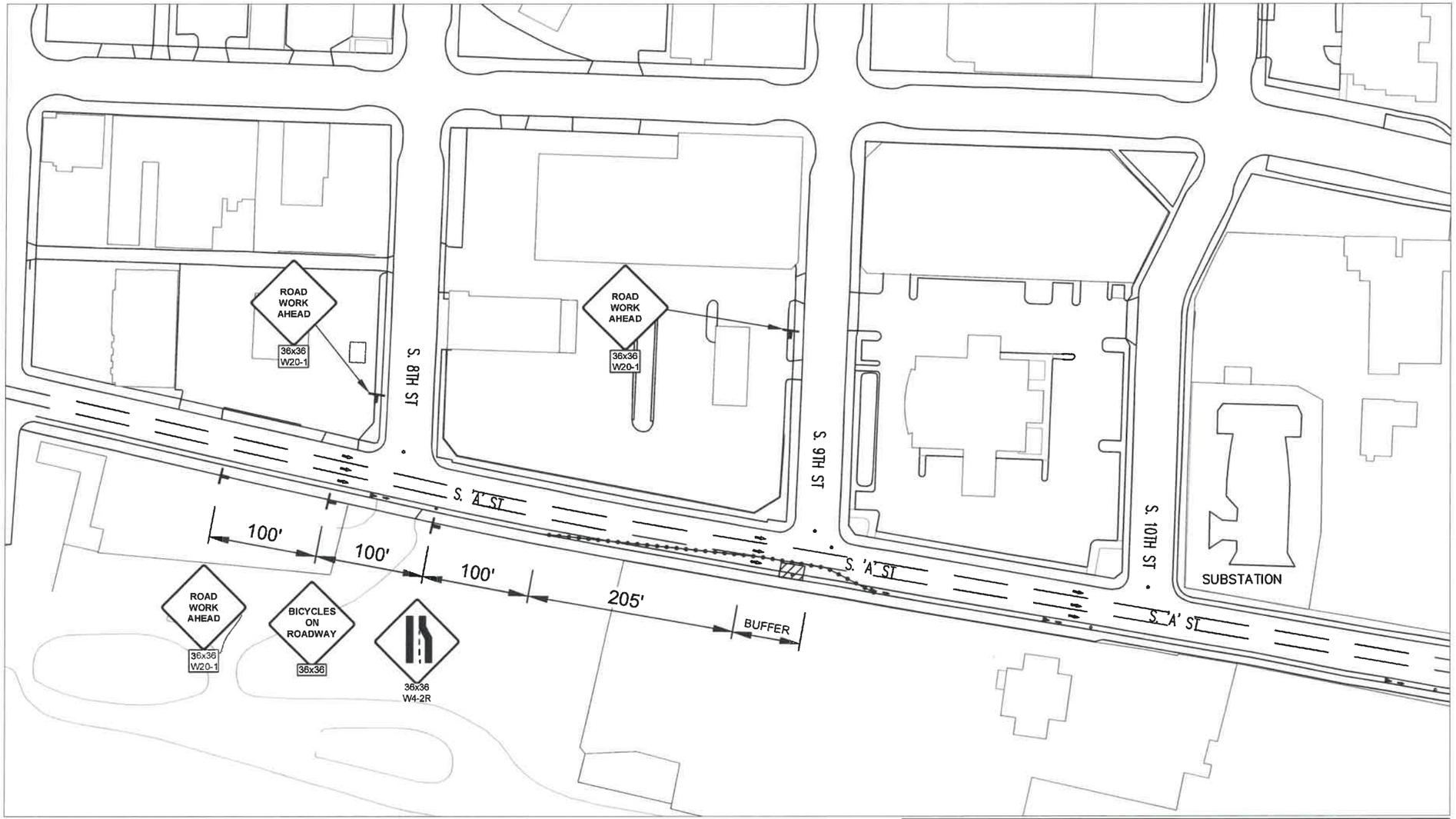
SPRINGFIELD OREGON

REGISTERED PROFESSIONAL ENGINEER
19697PE
OREGON
MAY 5, 1998
BRIAN F. BARNETT
09-29-21
EXP DATE: 12-31-2021

TITLE SHEET

1"=100'	SHEET E05 OF 19
DRAWN BY: B. JABUSCH	
DESIGNED BY: J. PASHCALL	
CHECKED BY: K. KRUEGER	

September 27, 2021



TRAFFIC CONTROL NOTES:

- SEE STD DWG TM844 'SIDEWALK CLOSURE, MIDBLOCK' FOR TEMPORARY PEDESTRIAN ACCESS ROUTING
- TCP EQUIPMENT SHALL BE IN ACCORDANCE WITH OTTCH SECTION 4.1 SIGNS AND 4.2 BARRICADES, CONES, DRUMS, AND TUBULAR MARKERS

SPEED LIMIT 35

MH ID#: 22404

0 25 50 100 200

N

LEGEND:

- TEMPORARY TRAFFIC CONTROL SIGN AND SUPPORT
- TRAFFIC CONES
- BUS STOP
- WORK ZONE

No.	Revision/Issue	Date

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225 FIFTH STREET SPRINGFIELD, OR 97477
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SPRINGFIELD OREGON

REGISTERED PROFESSIONAL ENGINEER
19697PE
OREGON
MAY 5, 1998
BRIAN F. BARNETT
9-29-21
EXP DATE: 12-31-2021

TITLE SHEET

1"=100'	SHEET E06 OF 19
DRAWN BY: B. JABUSCH	
DESIGNED BY: J. PASHCALL	
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September 27, 2021

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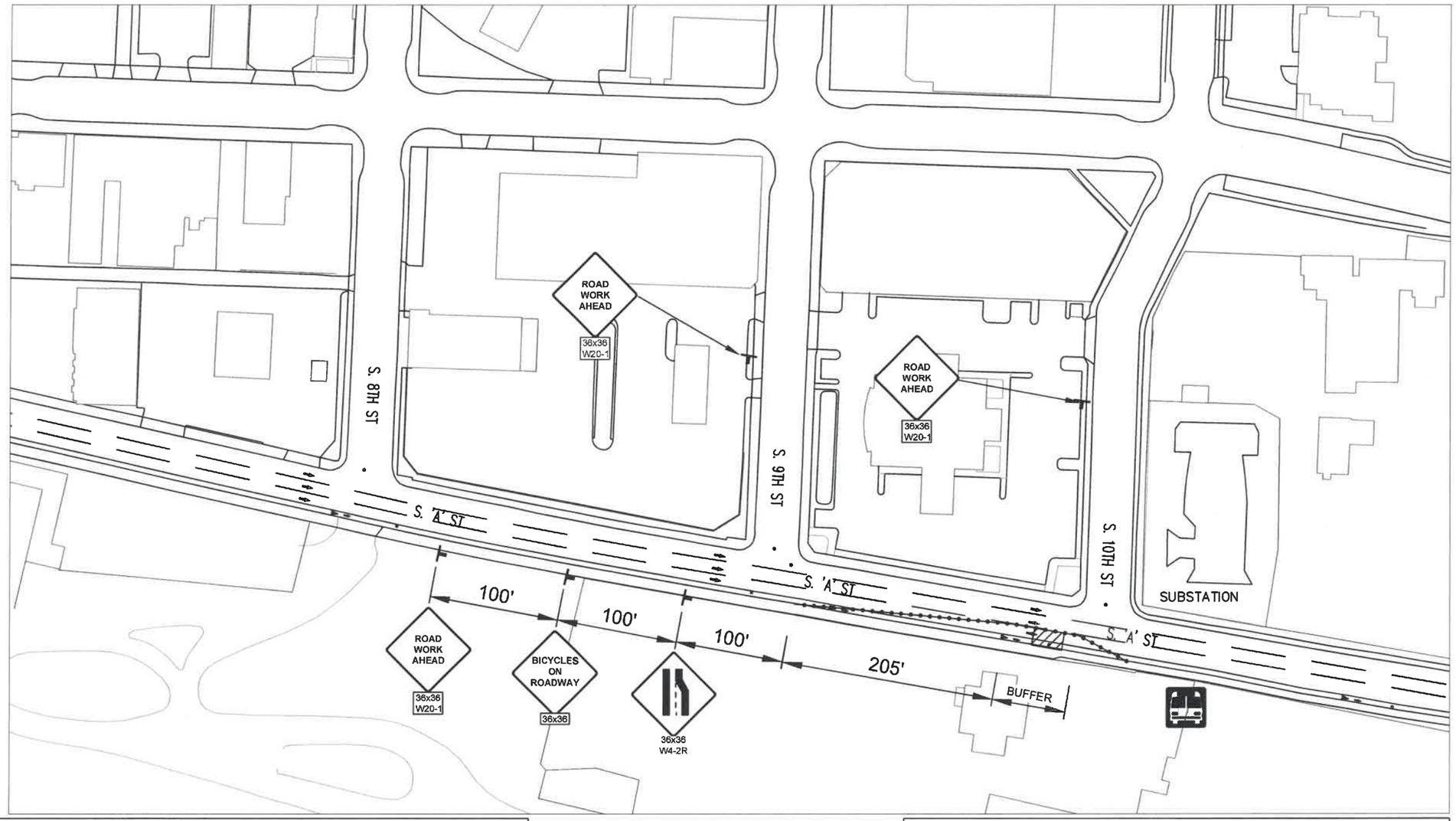

TRAFFIC CONTROL NOTES:

- SEE STD DWG TM844 'SIDEWALK CLOSURE, MIDBLOCK' FOR TEMPORARY PEDESTRIAN ACCESS ROUTING
- TCP EQUIPMENT SHALL BE IN ACCORDANCE WITH OTTCH SECTION 4.1 SIGNS AND 4.2 BARRICADES, CONES, DRUMS, AND TUBULAR MARKERS

SPEED LIMIT 35

MH ID#: 22401

0 25 50 100 200

N

LEGEND:

- TEMPORARY TRAFFIC CONTROL SIGN AND SUPPORT
- TRAFFIC CONES
- BUS STOP
- WORK ZONE

No.	Revision/Issue	Date

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Project P21168
2021 MAINTENANCE HOLE REHABILITATION

City of Springfield

PUBLIC WORKS / ENGINEERING
225 FIFTH STREET · SPRINGFIELD, OR 97477
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INTERNET www.springfield-or.gov

SPRINGFIELD OREGON

REGISTERED PROFESSIONAL ENGINEER
19697PE
OREGON
MAY 5, 1998
BRIAN F. BARNETT
9-9-21

EXP DATE: 12-31-2021

TITLE SHEET

1"=100'

DRAWN BY: B. JABUSCH
DESIGNED BY: J. PASHCALL
CHECKED BY: K. KRUEGER

SHEET E07 OF 19

September 27, 2021

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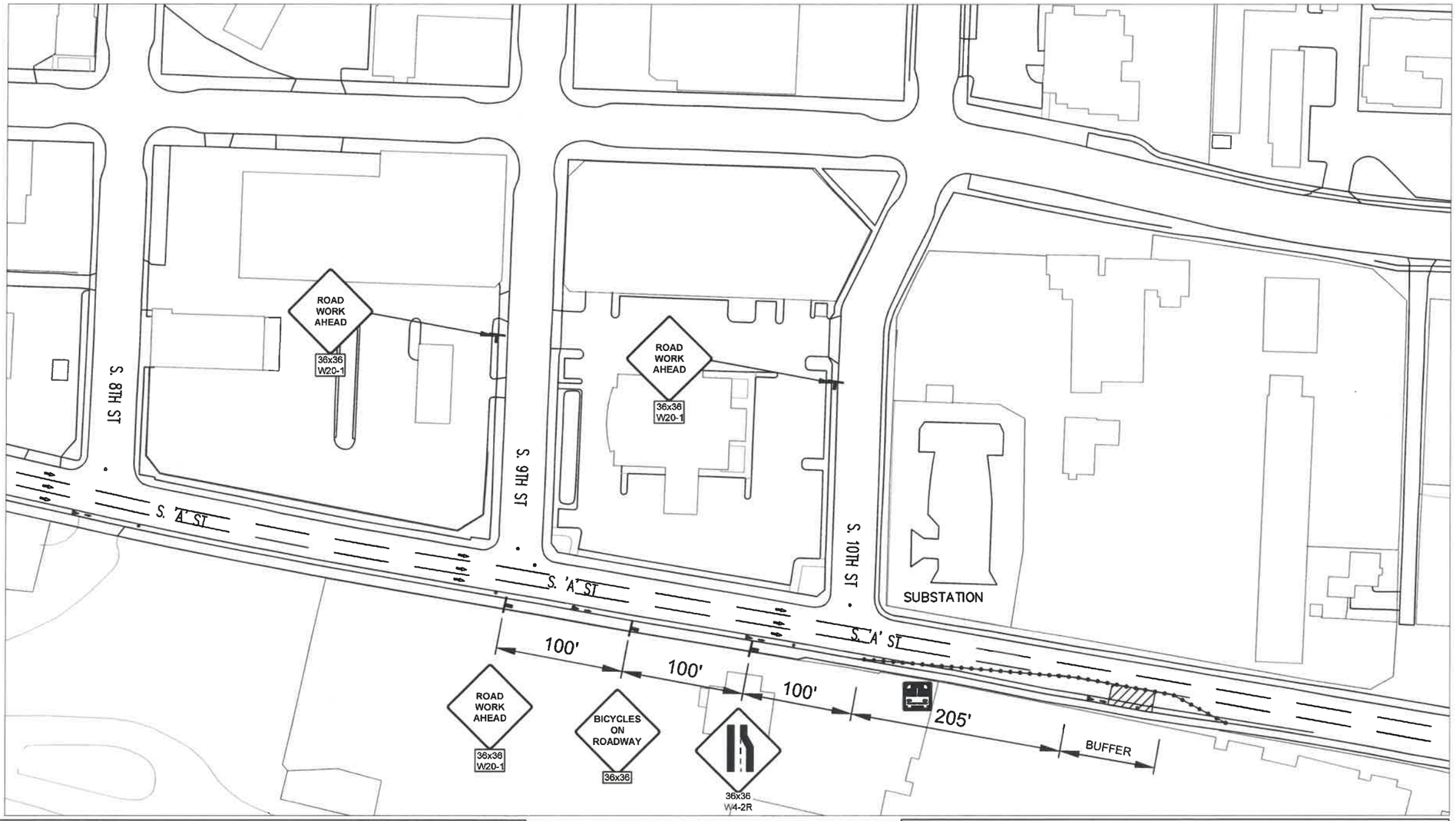

TRAFFIC CONTROL NOTES:

- SEE STD DWG TM844 'SIDEWALK CLOSURE, CORNER' FOR TEMPORARY PEDESTRIAN ACCESS ROUTING
- TCP EQUIPMENT SHALL BE IN ACCORDANCE WITH OTTCH SECTION 4.1 SIGNS AND 4.2 BARRICADES, CONES, DRUMS, AND TUBULAR MARKERS

SPEED LIMIT 35

MH ID#: 50300

0 25 50 100 200

N

LEGEND:

- TEMPORARY TRAFFIC CONTROL SIGN AND SUPPORT
- TRAFFIC CONES
- BUS STOP
- WORK ZONE

No.	Revision/Issue	Date

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Project P21168
2021 MAINTENANCE HOLE REHABILITATION

City of Springfield

PUBLIC WORKS / ENGINEERING
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INTERNET www.springfield-or.gov

SPRINGFIELD OREGON

REGISTERED PROFESSIONAL ENGINEER
19697PE
OREGON
MAY 5, 1998
BRIAN F. BARNETT
9-29-21

EXP DATE: 12-31-2021

TITLE SHEET

1"=100'

DRAWN BY: B. JABUSCH
DESIGNED BY: J. PASHCALL
CHECKED BY: K. KRUEGER

SHEET E08 OF 19

September 27, 2021

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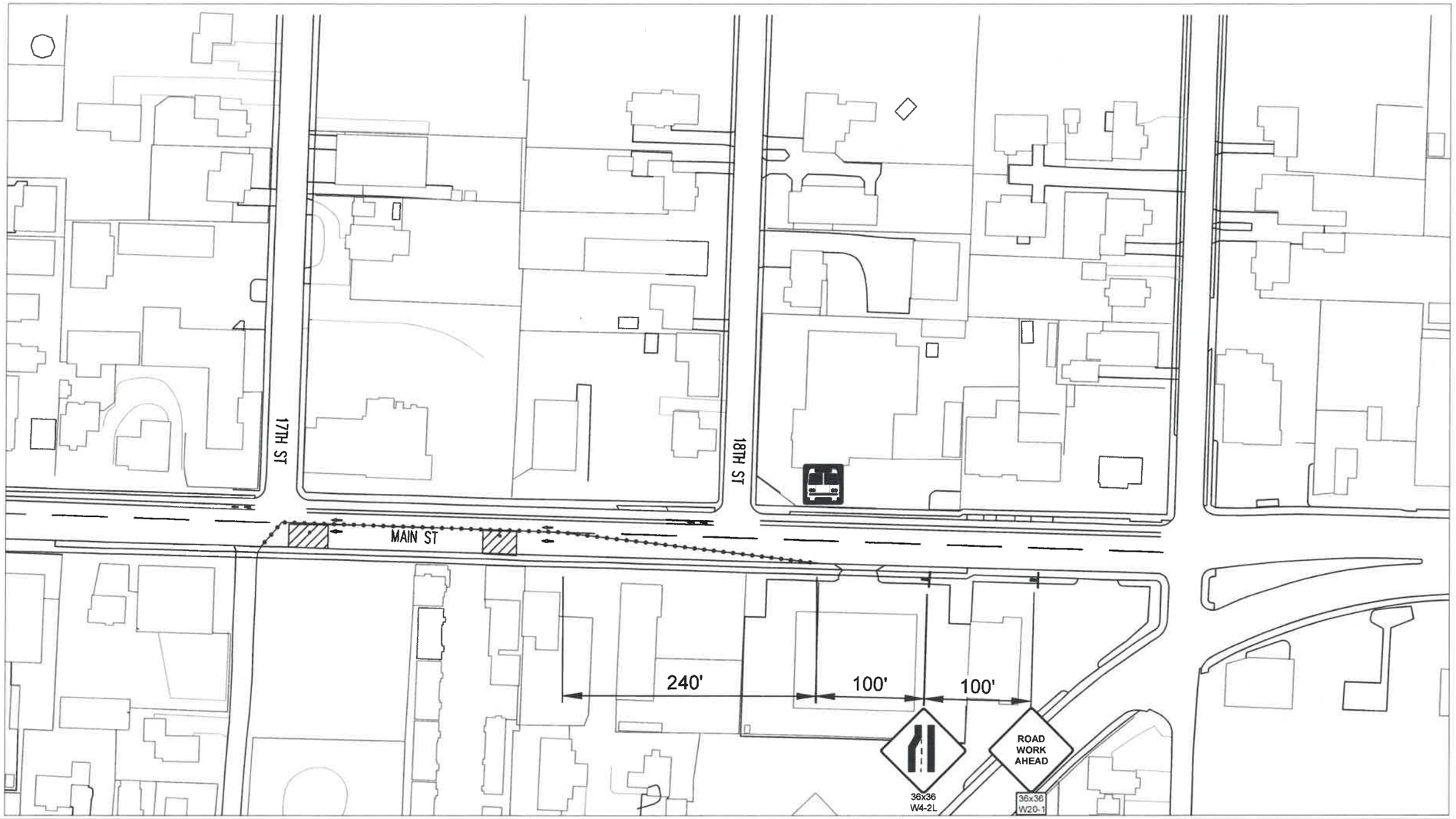

TRAFFIC CONTROL NOTES:

- TCP EQUIPMENT SHALL BE IN ACCORDANCE WITH OTTCH SECTION 4.1 SIGNS AND 4.2 BARRICADES, CONES, DRUMS, AND TUBULAR MARKERS

SPEED LIMIT 30

MH ID#: 50725 & 50724

0 25 50 100 200

N

LEGEND:

- TEMPORARY TRAFFIC CONTROL SIGN AND SUPPORT
- TRAFFIC CONES
- BUS STOP
- WORK ZONE

No.	Revision/issue	Date

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City of Springfield

PUBLIC WORKS / ENGINEERING
225 FIFTH STREET, SPRINGFIELD, OR 97477
PHONE (541) 726-3753 FAX (541) 726-3568
INTERNET www.springfield-or.gov

SPRINGFIELD OREGON

REGISTERED PROFESSIONAL ENGINEER 19697PE OREGON MAY 5, 1998 BRIAN F. BARNETT

9-27-21

EXP DATE: 12-31-2021

TITLE SHEET

1"=100'	
DRAWN BY:	B. JABUSCH
DESIGNED BY:	J. PASHCALL
CHECKED BY:	K. KRUEGER

SHEET E09 OF 19

September 27, 2021

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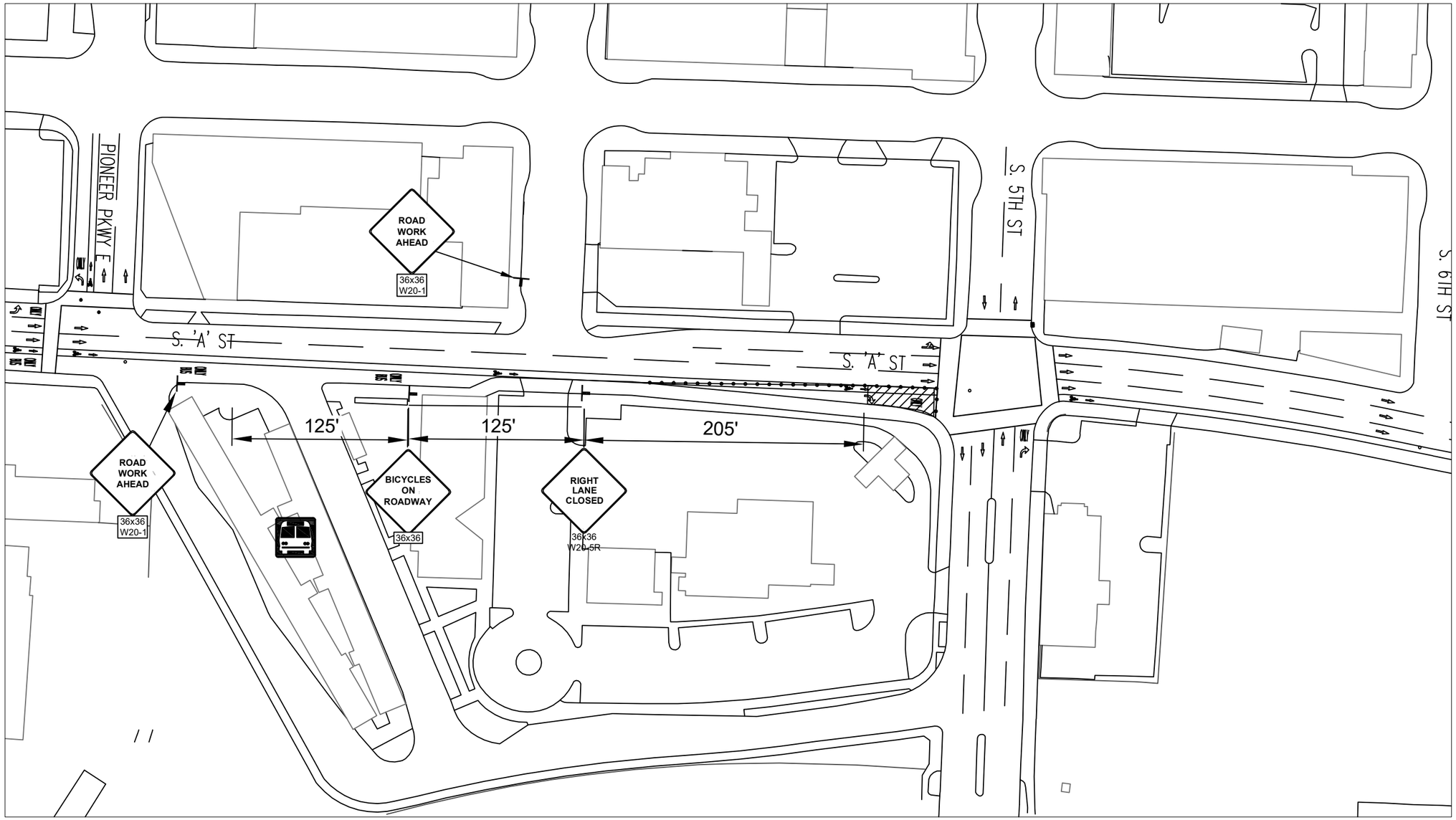

TRAFFIC CONTROL NOTES:

- TCP EQUIPMENT SHALL BE IN ACCORDANCE WITH OTTCH SECTION 4.1 SIGNS AND 4.2 BARRICADES, CONES, DRUMS, AND TUBULAR MARKERS
- USE ODOT STD DWG TM843 MULTI–LANE SIGNALIZED INTERSECTION DETAILS FOR REFERENCE

SPEED LIMIT 35

VIDEO CAMERA RETRIEVAL TCP

0 25 50 100 200

N

LEGEND:

TEMPORARY TRAFFIC CONTROL SIGN AND SUPPORT

TRAFFIC CONES

BUS STOP

WORK ZONE

No.	Revision/Issue	Date

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19697PE
OREGON
MAY 5, 1998
BRIAN F. BARNETT

EXP DATE: 12-31-2021

TITLE SHEET

1"=100'	SHEET E10 OF 19
DRAWN BY: B. JABUSCH	
DESIGNED BY: J. PASHCALL	
CHECKED BY: K. KRUEGER	

October 29, 2021

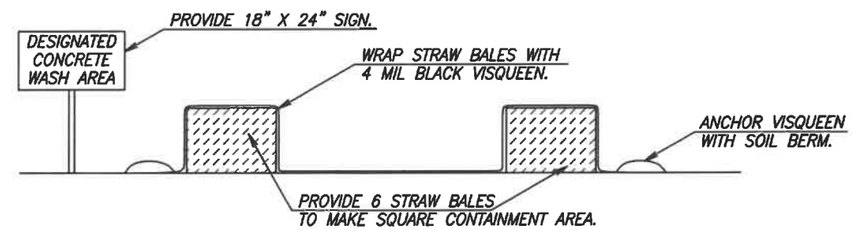
C:\Users\bjabusch\City Of Springfield, OR\DPW-CMD-Engineering - Capital Projects\Projects Folders\STREETS\P21168 -2021 Manhole Rehab\02-Design\DRAWING\100\DWG\E SHEETS.dwg

NOTES:

1. PLACE INLET/CATCH BASIN PROTECTION AT EXISTING FIXTURES (SEE DETAILS ON SHEET F02.)

GENERAL NOTES:

1. CONCRETE WASHOUTS ARE NOT PROVIDED ON THIS PROJECT
2. SAW CUTTING SLURRY IS TO BE VACUMED
3. ANY AREAS OF EXPOSED SOILS. INCLUDING ROADWAY EMBANKMENTS, THAT WILL NOT BE DISTURBED FOR TWO DAYS DURING THE WET SEASON (OCTOBER 1 TO APRIL 30) OR SEVEN DAYS DURING THE DRY SEASON (MAY 1 TO SEPTEMBER 30) SHALL BE IMMEDIATELY STABILIZED WITH AN APPROVED ESC METHOD (SEEDING & MULCHING WITH STRAW, BARK, COMPOST, OR PLASTIC COVERING, ETC.).



1 / F01 CONCRETE WASH AREA DETAIL

NOT TO SCALE

EROSION CONTROL STANDARD NOTES:

A. Approval of this Erosion and Sedimentation Control Plan (ESCP) does not constitute an approval of permanent road or drainage design (e.g., size and location of roads, pipes, restrictors, channels, retention facilities, utilities, etc.).

B. Approval of this ESCP does not relieve the permit holder and or the contractor from all other permitting requirements. Prior to beginning construction activities, all other necessary approvals shall be obtained.

C. An inspection of the erosion control measures by City LDAP staff is required prior to any ground disturbance on the site.

D. The erosion and sediment control measures shown on the plan are the minimum requirements for anticipated site conditions. During the construction period, these measures shall be upgraded as needed for unexpected storm events and to ensure that sediment and sediment-laden water does not leave the site.

E. The implementation of the ESCP and the construction, maintenance, replacement, and upgrading of the erosion and sediment control measures is the responsibility of the permit holder and or the contractor until all construction is completed and accepted by the City and vegetation/landscaping is established per the required warranty period.

F. In the event the ESC facilities identified on the ESCP are not functioning properly, the contractor is responsible for immediately implementing changes to the ESCP as directed by the ESCP engineer or his inspector. The engineer, his inspector or the City may stop all construction activity on site until the erosion problem is corrected and all ESC facilities are functioning properly. If the contractor does not immediately implement changes to the ESCP identified by the ESCP engineer or his inspector, the City may implement the necessary changes and require payment from the contractor prior to project acceptance by the City.

G. The boundaries of the clearing limits shown on this plan shall be clearly flagged in the field by the engineer prior to construction. During the construction period, no disturbance beyond the flagged clearing limits shall be permitted. The flagging shall be maintained by the permit holder and or the contractor for the duration of construction.

H. The erosion and sediment control measures on active sites shall be inspected and maintained daily and within the 24 hours after any storm event of greater than 0.5 inches of rain per 24 hour period. Measures shall be inspected by the permit holder and or the contractor after each rainfall and at least daily during prolonged rainfall. Any required repairs or adjustments shall be made immediately. The erosion and sediment control measures on inactive sites shall be inspected a minimum of once every two (2) weeks or within 48 hours following a storm event. Written records shall be kept of weekly reviews of the ESC facilities during the wet season (October 1 to April 30) and of monthly reviews during the dry season (May1 to September 30).

I. All erosion and sediment control measures shall be protected from damage at all times. Control measures shall remain in place until permanent or temporary re-vegetation has been stabilized. Any measure that is damaged or destroyed shall be repaired or replaced immediately.

J. Any areas of exposed soils, including roadway embankments, that will not be disturbed for two days during the wet season (October 1 to April 30) or seven days during the dry season (May 1 to September 30) shall be immediately stabilized with an approved ESC method (seeding & mulching with straw, bark, compost, or plastic covering, etc.).

K. A supply of materials necessary to meet compliance and implement the LDAP or other best management erosion practices under all weather conditions shall be maintained at all times on the construction site.

L. No hazardous substances, such as paints, thinners, fuels and other chemicals shall be released onto the site, adjacent properties, or into water features, the City's storm water system, or related natural resources.

M. Street sweeping shall be performed as needed or when directed by the City inspector to ensure public right-of-ways are kept clean and free of debris. Street flushing is prohibited.

N. When trucking saturated soils from the site, either water-tight trucks shall be used or loads shall be drained on site until dripping has been reduced to no more than one gallon per hour. Sediment laden water will not be allowed to enter the storm water system

O. Extracted ground water from excavated trenches shall be disposed of in a suitable manner without damage to adjacent property, public storm water system, water features, and related natural resources. Approval of a dewatering system does not guarantee that it will meet compliance or be acceptable for use in all situations. Modifications to the dewatering system will be required if compliance can not be met. At no time will sediment laden water be allowed to leave the construction site.

P. At no time shall more than one foot of sediment be allowed to accumulate within a catch basin. All catch basins and conveyance lines shall be cleaned prior to paving. The cleaning operation shall not flush sediment laden water into the downstream system.

Q. Any required stabilized construction entrances and roads shall be installed at the beginning of construction and maintained for the duration of the project. Additional measures, such as wash pads, may be required to ensure that all paved areas are kept clean for the duration of the project.

R. Any permanent flow control facility used as a temporary settling basin shall be modified with the necessary erosion control measures and shall provide adequate storage capacity.

S. Where straw mulch for temporary erosion control is required, it shall be applied at a minimum thickness of two to three inches.

T. In preparation of the wet season, all disturbed areas shall be reviewed to identify which ones can be seeded in preparation for the winter rains. A sketch map of those areas to be seeded and those areas to remain uncovered shall be submitted to the City by September 15. The City can require seeding of additional areas in order to protect surface waters, adjacent properties, or drainage facilities. Disturbed areas identified for seeding shall be seeded prior to the beginning of the wet season (October 1).

No.	Revision/Issue	

811 Know what's below. Call before you dig.

UTILITY LOCATIONS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING UTILITY LOCATIONS PRIOR TO BEGINNING OF CONSTRUCTION. THESE PLANS MAY NOT SHOW ALL UTILITIES OR THE CORRECT LOCATIONS.

Project P21168
2021 MAINTENANCE HOLE REHABILITATION

City of Springfield
SPRINGFIELD OREGON
PUBLIC WORKS / ENGINEERING
225 FIFTH STREET, SPRINGFIELD, OR 97477
PHONE (541) 726-3753 FAX (541) 726-3689
INTERNET www.springfield-or.gov

REGISTERED PROFESSIONAL ENGINEER
54699PE
OREGON
JULY 15, 2003
JEFFREY ALAN PASCHALL

EXP DATE: 12-31-2022

EROSION AND SEDIMENT CONTROL DETAILS

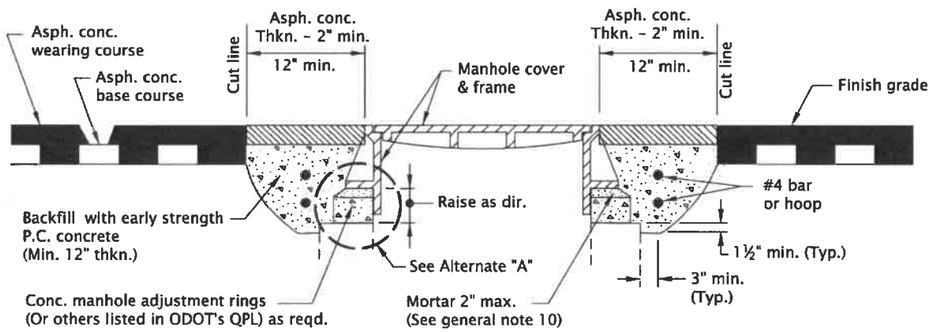
NO SCALE

SHEET F01 OF 19

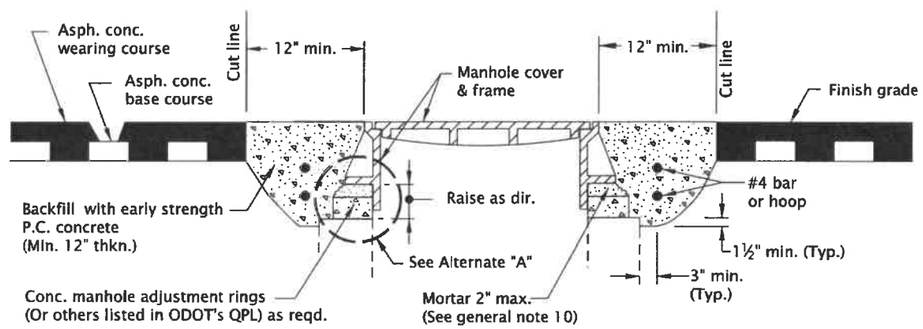
DRAWN BY: B. JABUSCH
DESIGNED BY: J. PASHCALL
CHECKED BY: K. KRUEGER

October 5, 2021

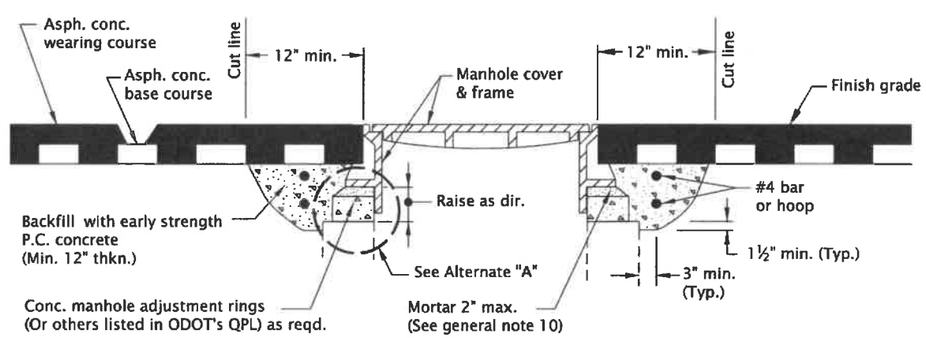
C:\Users\bjabusch\City Of Springfield, OR\DPW-CMD-Engineering - Capital Projects\Projects Folders\STREETS\P21168 -2021 Manhole Rehab\02-Design\DRAWING\100.DWG\F SHEET.dwg



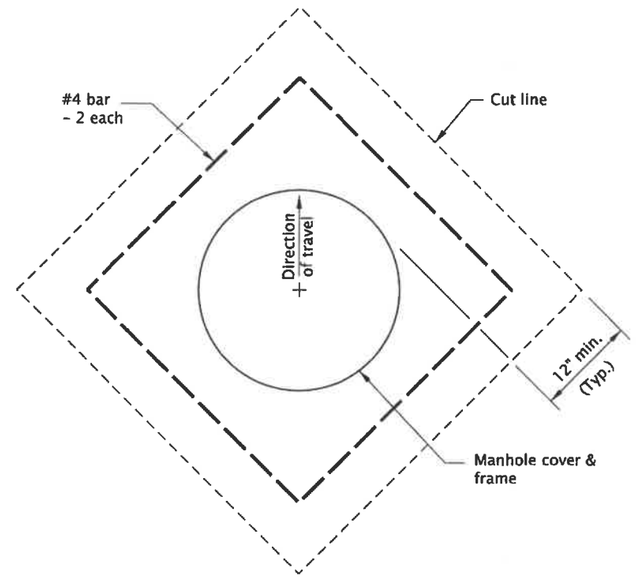
METHOD "A"



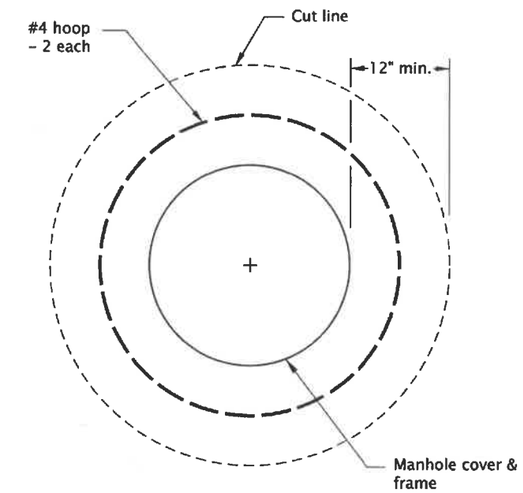
METHOD "B"



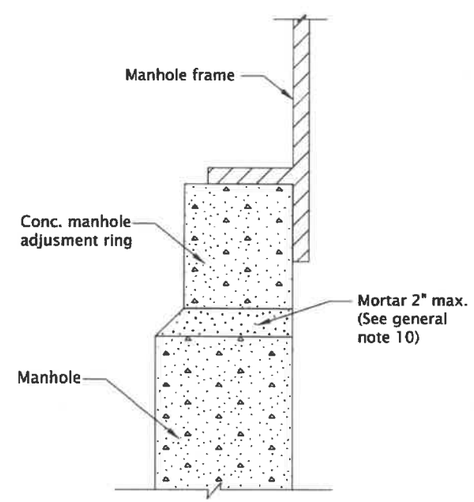
METHOD "C"



PLAN
SQUARE CUT



PLAN
CIRCULAR CUT



ALTERNATE "A"

GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:

1. Cover manhole with building paper and const. asph. conc. base course and wearing courses.
2. Saw cut square or circular excavation around manhole 12" min. from manhole frame.
3. Raise manhole cover and frame to finish grade by installing conc. manhole adjustment rings and leveling mortar, as shown.
4. Backfill with early strength Portland Cement Concrete. All concrete shall be commercial grade concrete.
5. Protect from traffic loading until conc. has cured to 3000 psi.
6. Apply tack coat to edges of existing pavement before installing patch.
7. Finish joint with asphalt seal and sand.
8. See Std. Dwg. RD336 for manhole steps details.
9. See appropriate manhole standard drawings for details not shown.
10. Use epoxy for synthetic grade rings.
11. See Std. Dwg. RD336 for tracer wire details.
12. See Std. Dwg. RD356 for manhole covers and frames.

CALC. BOOK NO. N/A

SDR DATE 21-JUL-2015

NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.

OREGON STANDARD DRAWINGS

MANHOLE FRAME ADJUSTMENT

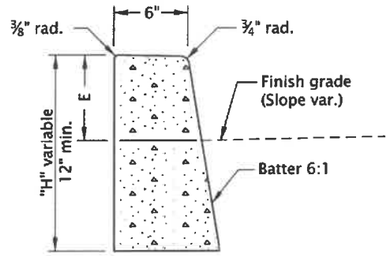
2021

DATE	REVISION DESCRIPTION

Effective Date: June 1, 2021 - November 30, 2021

rd360.dgn 20-JUL-2020

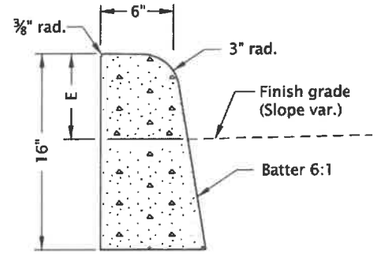
RD360



O.D.O.T. & City of Portland Standard "H"=16"

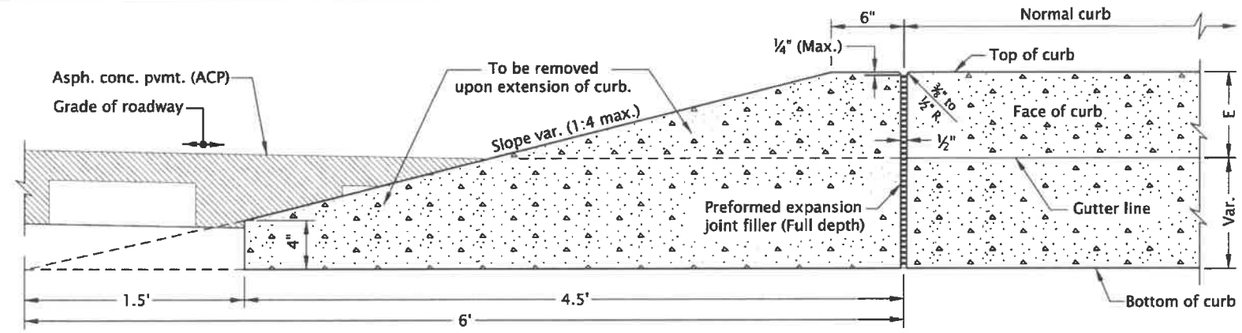
STANDARD CURB

(See general note 11)

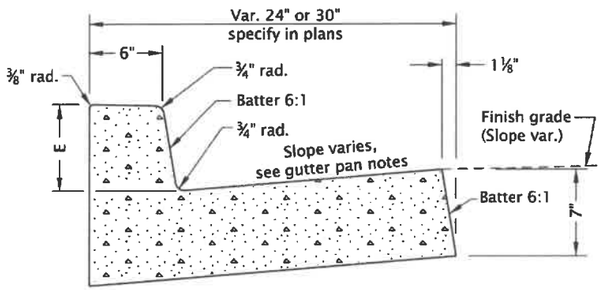


MOUNTABLE CURB

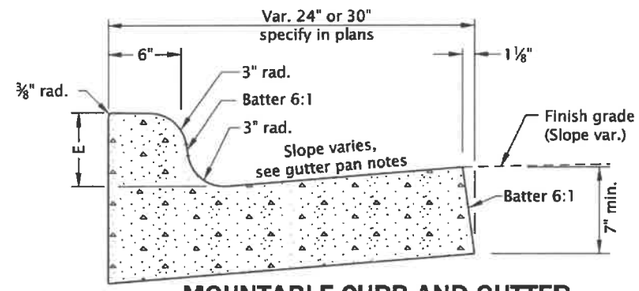
(See general note 11)



CURB ENDING DETAIL



CURB AND GUTTER



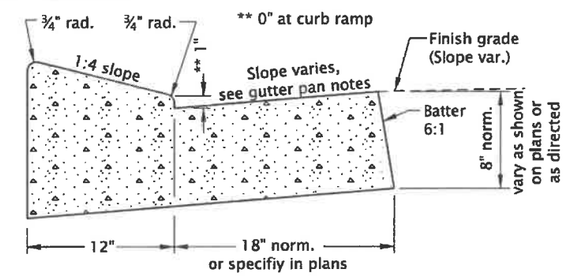
MOUNTABLE CURB AND GUTTER

GUTTER PAN NOTES:

Slope 5.0% normal.

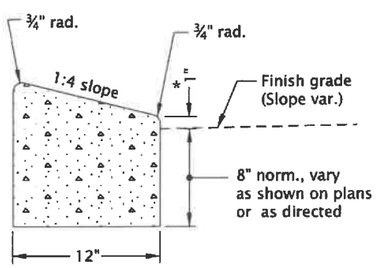
Slope 4.0% max. at curb ramps.

Vary slope as reqd. for drainage. Vary where shown on plans, and allowed by jurisdiction.



LOW PROFILE MOUNTABLE CURB AND GUTTER

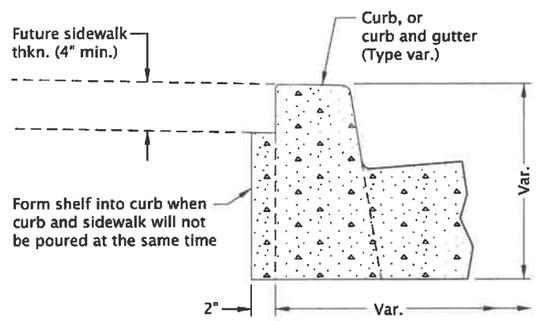
(Where shown on plans)



* 0" for Truck Apron

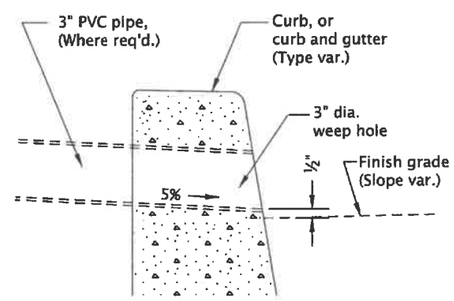
LOW PROFILE MOUNTABLE CURB

(See general note 11)



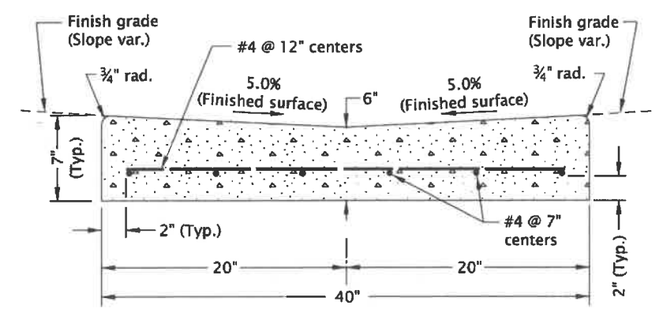
MODIFICATION FOR KEYWAY

(Where shown on plans)



WEEP HOLE DETAIL

(Where shown on plans, and allowed by jurisdiction)



VALLEY GUTTER

CALC. BOOK NO. N/A

SDR DATE 20-JUL-2020

NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications

GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:

1. Curb exposure "E" = 6" to 9", as measured vertically from flowline to highest point on curb. Vary as shown on plans or as directed. O.D.O.T standard "E"=7".
2. Const. curb expansion joints at 200' maximum spacing, and at points of tangency, and at ends of each driveways.
3. Const. curb contraction joints at 15' maximum spacing, and at ends of each inlet and curb ramp.
4. Transitions shall be used to connect curbs of different exposures "E". ("E" is the total vertical dimension of those curb surfaces having a slope of 1:1 or steeper). Minimum desirable transition length shall be 20' for each 1" difference in "E".
5. Tops of all curbs shall slope toward the roadway at 1.5% max. (Max. 2.0% finished surface slope), unless otherwise shown, or as directed.
6. Dimensions are nominal, vary to conform with curb machine approved by the engineer.
7. Dimensions adjacent to radii are measured to the point of intersection of curb surfaces.
8. For sidewalk details, and monolithic curb & sidewalk, see Std. Dwgs. RD720 & RD721.
9. For drainage curbs, see Std. Dwg. RD701.
10. For curb ramp details, see Std. Dwgs. RD900 series.
11. On or along state highways, curb and gutter is required at curb ramp.

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.

OREGON STANDARD DRAWINGS

CURBS

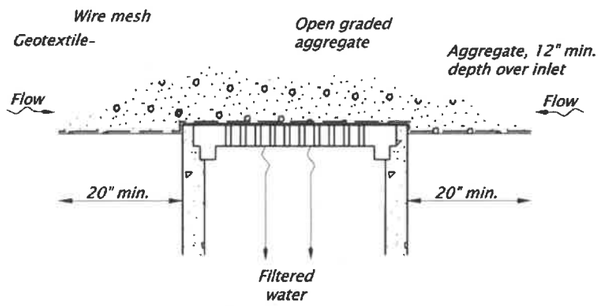
2021

DATE	REVISION DESCRIPTION

rd700.dgn 20-JUL-2020

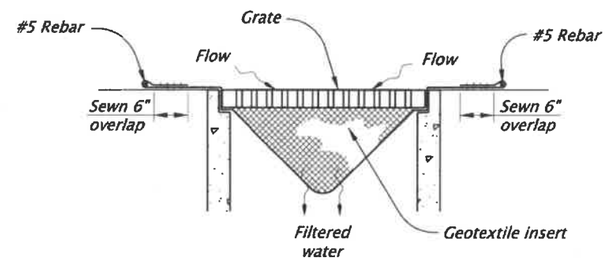
RD700

Effective Date: June 1, 2021 - November 30, 2021



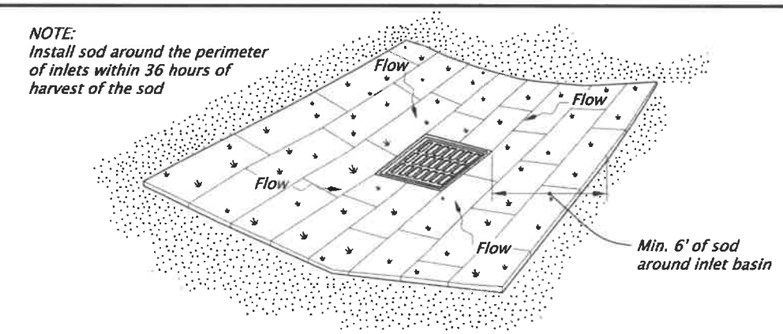
GEOTEXTILE/WIRE MESH/AGGREGATE - TYPE 2

NOT TO SCALE



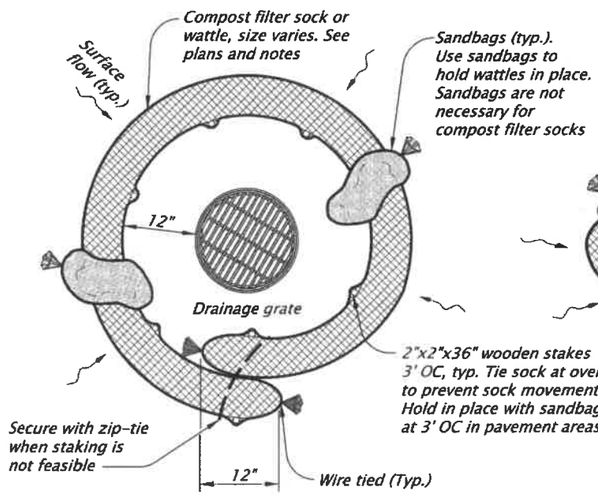
PREFABRICATED FILTER INSERT - TYPE 3

NOT TO SCALE

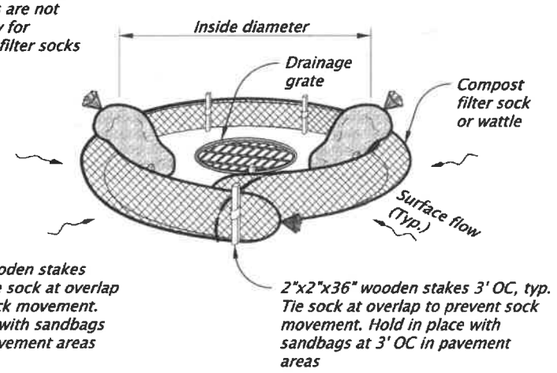


SOD PROTECTION - TYPE 6

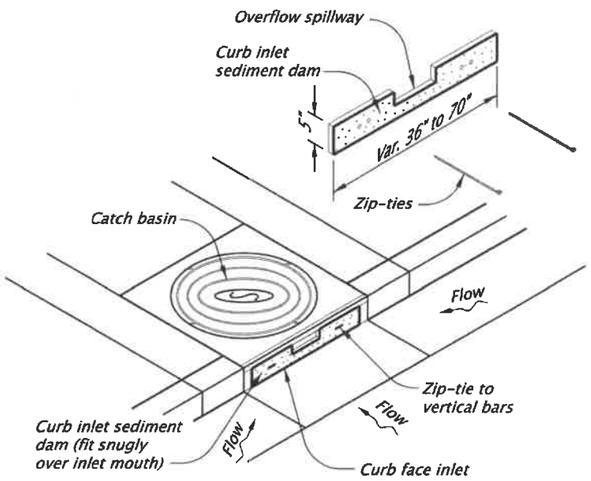
NOT TO SCALE



AREA DRAIN PLAN

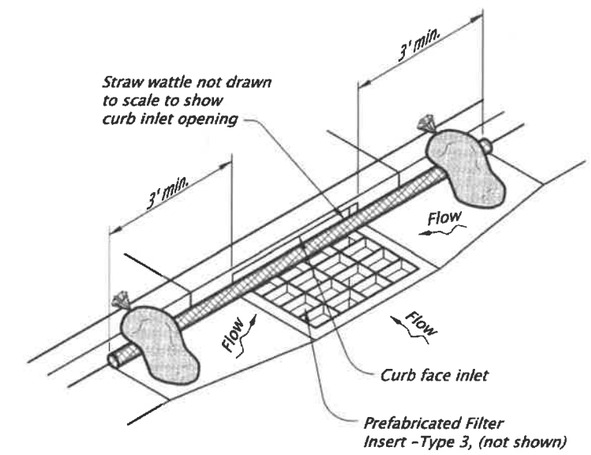


AREA DRAIN PERSPECTIVE VIEW



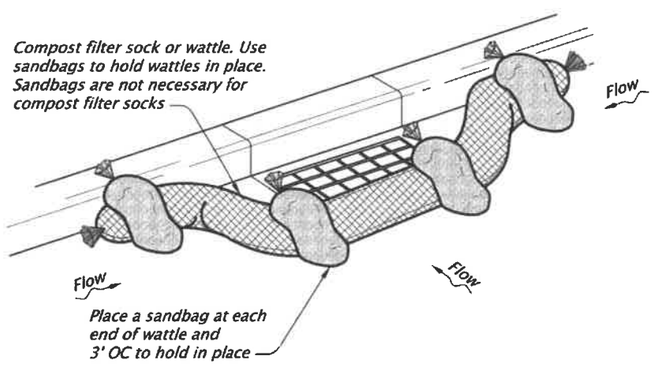
CURB INLET SEDIMENT DAM - TYPE 10

NOT TO SCALE



WATTLE BARRIER WITH FILTER INSERT - TYPE 11

NOT TO SCALE



CURB INLET PERSPECTIVE VIEW

COMPOST FILTER SOCK OR WATTLE - TYPE 7

NOT TO SCALE

NOTES:
Type 2 - Geotextile/wire mesh/aggregate
Place the wire mesh over the grate.
Place sediment fence geotextile over the wire mesh and perimeter area around structure.
Install aggregate over the geotextile fabric.

Type 3 - Prefabricated filter inserts
Install prefabricated filter inserts according to the plans, special provisions, and manufacturer recommendations.
Prefabricated inserts with provisions for overflow are allowed only when accompanied by additional BMP's to prevent the potential of sediments entering project storm systems.
Field fabricated inserts are not allowed.

Type 7 - Compost filter sock
Drive 2"x2" wood stakes a minimum of 6" into ground and flush with the top of the sock.
Overlap ends of sock per manufacturers recommendations (12"min., 36" max.).
Use 8" to 12" dia sock on curbside in traffic areas.

(Type 7 cont.)
Use 12" to 18" dia sock in non-traffic areas or areas where the larger socks can be used safely.
use synthetic mesh socks for temporary installations.

Type 10 - Curb inlet sediment dam
Fit curb inlet sediment dam snugly into inlet mouth. Curb inlet sediment dam is required for use with inlet filter insert where at-grade inlet grate and curb inlet are combined at a catch basin.

Type 11 - Wattle barrier with filter insert
Install prefabricated filter insert per Type 3 detail.
Install wattles over opening and 36" to each side of opening tight against curb. Adjust wattle to force storm water to flow through filter insert or wattle prior to leaving the site.
Adjust, replace or modify the inlet protection as needed to prevent sediment laden water from entering the catch basin.

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.

CALC. BOOK NO. N/A

SDR DATE January, 2021

NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications

OREGON STANDARD DRAWINGS

INLET PROTECTION TYPE 2, 3, 6, 7, 10 AND 11

2021

DATE	REVISION DESCRIPTION
Jan 2021	Removed Calc book numbers
Jan 2021	Moved notes up from overlapping the sheet border

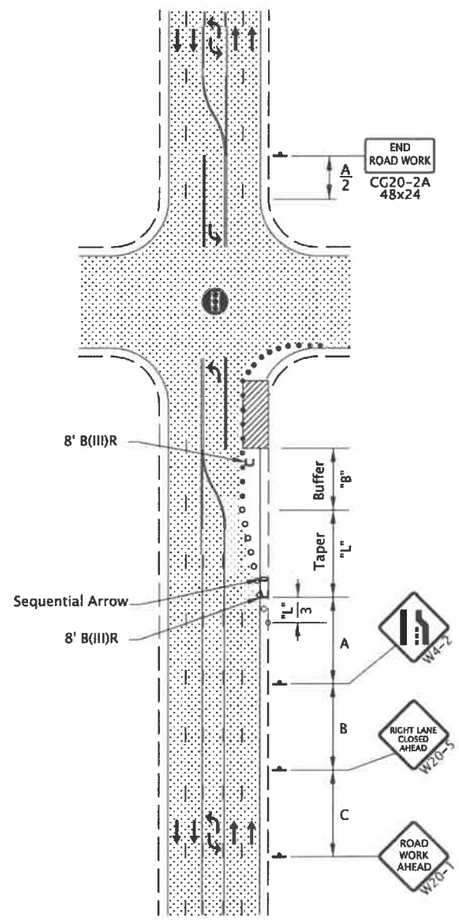
rd1010.dgn 01-20-2021

RD1010

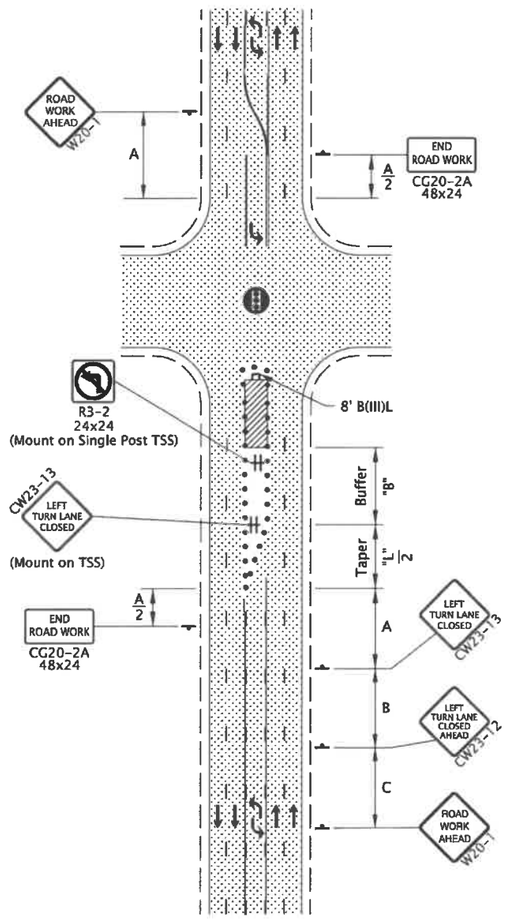
Effective Date: June 1, 2021 - November 30, 2021

RD1010

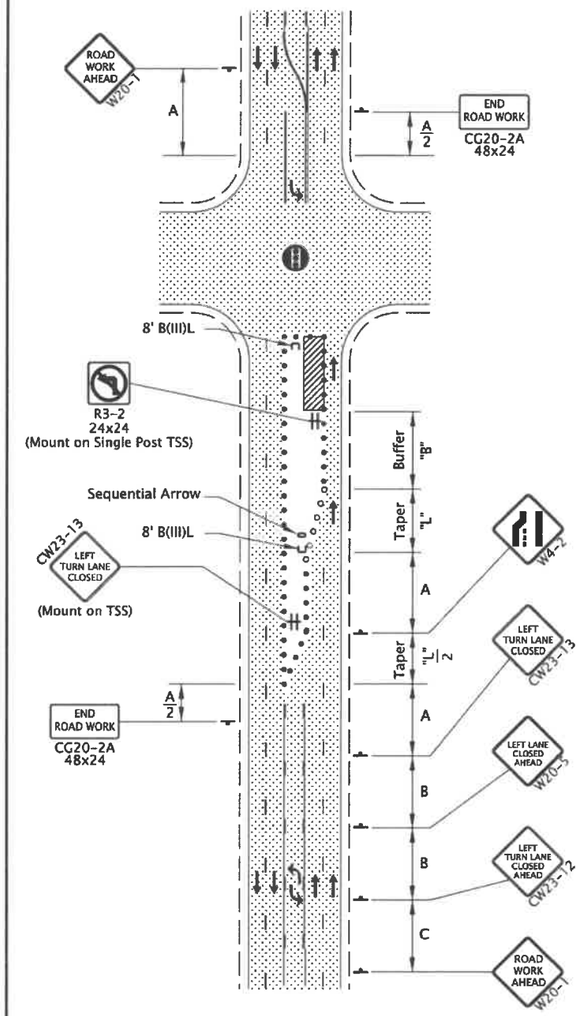
tm843.dgn 01-JUL-2020



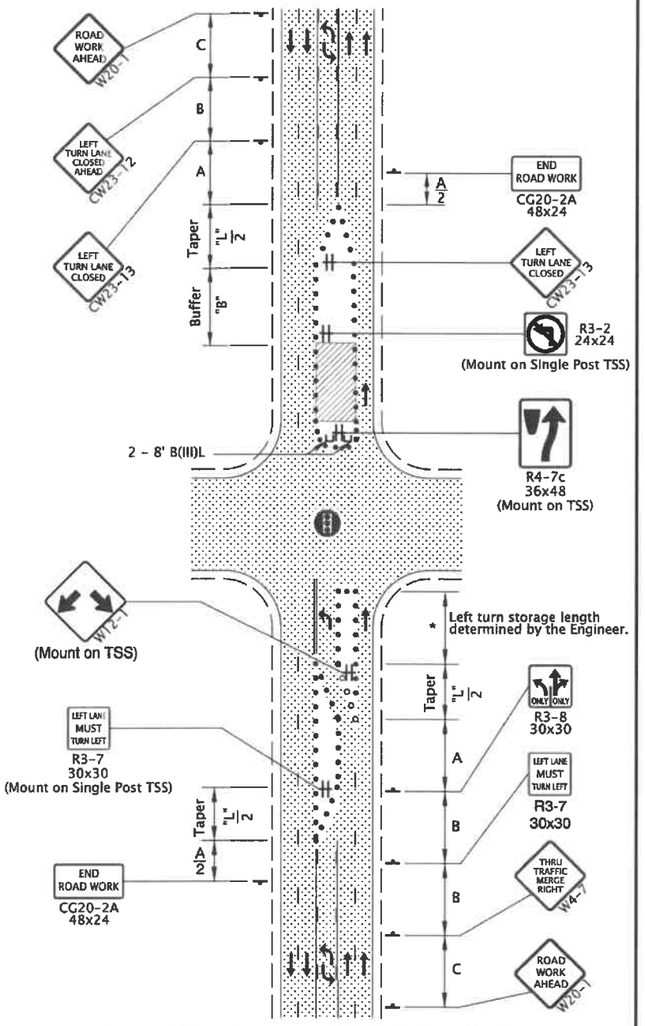
4-Lane, 2-Way Roadway With Left Turn Median
RIGHT LANE CLOSURE



4-Lane, 2-Way Roadway With Left Turn Median
LEFT TURN MEDIAN CLOSURE



4-Lane, 2-Way Roadway With Left Turn Median
LEFT TURN MEDIAN AND LEFT LANE CLOSURE



4-Lane, 2-Way Roadway With Left Turn Median
LEFT TURN MEDIAN & LEFT LANE CLOSURE, FAR SIDE

GENERAL NOTES FOR ALL DETAILS:

- Additional Traffic Control Measures (TCM) may be required for all legs of the intersection.
- To determine Taper Length ("L") and Buffer Length ("B") shown on this sheet, use the "MIMIMUM LENGTHS TABLE" on Dwg. TM800.
- When a through road intersects within the work zone, place a "ROAD WORK AHEAD" (W20-1) sign in advance of the intersection at sign spacing A.
- To determine sign spacing A, B, and C, use "TRAFFIC CONTROL DEVICES (TCD) SPACING TABLE" on Dwg. TM800.
- Tubular markers may be used in lane closure tapers where the posted speed is 40 mph or less.
- Taper Length of "L" for the through-lane shifting tapers may be used for higher speed roads.
- Taper Length of "L"/2 for center turn lane closure may be used in areas with high number of accesses within the work zone.
- Place channelizing devices around intersection radii, business accesses and driveways at 10' spacing.
- Install a "BICYCLES ON ROADWAY" (CW11-1) sign in advance of the closure when a bike lane is closed, or when the shoulder is closed and bikes are expected.
- Signal timing adjustments determined by the Engineer.
- To be accompanied by Dwg. Nos. TM820 & TM821.

Signal

28" Tubular Markers
See TCD Spacing Table on TM800 for max. spacing.

Temp. Plastic Drums
See TCD Spacing Table on TM800 for max. spacing.

UNDER TRAFFIC

UNDER CONSTRUCTION

CALC. BOOK NO. N/A

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.

SDR DATE 01-JUL-2020

NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications

OREGON STANDARD DRAWINGS

MULTI-LANE SIGNALIZED INTERSECTION DETAILS

2021

DATE	REVISION DESCRIPTION

TM843

Effective Date: June 1, 2021 - November 30, 2021