



CITY OF ST PAUL
 Department of Public Works
 25 West 4th Street
 1500 City Hall Annex
 Saint Paul, MN 55102

ORDINANCE PERMIT

OFFICE USE ONLY
 Application No. 1
 Application Date 10/30/2020
 SPR File # 20-058941
 Permit No. 20200011001

Type of Permit (select one only):

- | | | |
|---|--|--|
| <input type="checkbox"/> Base Roadway | <input type="checkbox"/> Roadway Sidewalks | <input checked="" type="checkbox"/> Sanitary Sewer Collection System |
| <input type="checkbox"/> Bridge | <input type="checkbox"/> Roadway Traffic | <input type="checkbox"/> Storm Sewer Collection System |
| <input type="checkbox"/> Retaining Wall | <input type="checkbox"/> Sanitary Drop Shaft | <input type="checkbox"/> Storm Sewer Treatment System |

Phase:

Location (Street On, From/To, and Adjacent Lots/Blocks):

Description of Work: *[Include the description provided in the permit application and all subsequent amendments or revisions, which are hereby incorporated by reference.]*

Applicant Contact Person:

Will Rollo

Contact Person Title:

Project Manager I

Contact Person Telephone:

612-257-3536

Contact Person Email:

will.rollo@ryancompanies.com

Bond Co.:

Hartford Fire Insurance Company

Bond Amount:

\$183,000.00

Bond No.:

59BSBIJ6819

Insurance Co.:

Aon Risk Services Central, Inc.

Insurance Certificate No.:

570083559560

Permit Conditions:

This permit is issued with the stipulation that the work of the permittee and related agents, employees and contractors shall conform in all respects to the Redevelopment Agreement (including all Legal Requirements as defined by Article 1), the City of Saint Paul Department of Public Works Ordinance Permit Process Document, and the Department of Public Works List of Applicable Standards & Specifications. The permit shall be available for display at the site referred to herein and shown to any Police Officer or Inspector upon demand and does not authorize or allow for interference with the work of any Contract made or to be made with the City of Saint Paul.

**THIS PERMIT MAY BE REVOKED AT ANY TIME
 BY THE DIRECTOR OF PUBLIC WORKS**

A PERMIT FOR THE ABOVE DESCRIBED CONSTRUCTION IS AUTHORIZED BY:

Signature

Assistant City Engineer

Title

November 10, 2020

Date

Nick Peterson

Printed Name

PERMIT NUMBER 20200011001

**ITEMS TO BE COMPLETED PRIOR TO ACCEPTANCE OF INFRASTRUCTURE
AND RELEASE OF PERMIT**

Prior to acceptance of any infrastructure and release of City permits, the following items must be completed to the satisfaction of the City:

- Corrective (punch list) work completed;
- Original reproducible CAD and PDF as-built plans, signed by the Engineer of Record, provided to Public Works; Submittal of final copies of Metropolitan Council Environmental Services and MN Pollution Control Agency Permits (Sewer Extension, SAC Determination, etc.);
- Full compliance with project Quality Management Plan or other document(s) governing quality management and quality assurance;
- Documentation of compliance with all applicable City and non-City permit requirements, including, but not limited to: City Public Works Right-of-Way Office, Minnesota Pollution Control Agency, Capitol Region Watershed District, and National Pollution Discharge Elimination System permit requirements;
- Documentation of roadway materials at compaction of grading and base, plant mix design report, strength;
- Video of all sanitary sewer mains and laterals, storm sewer mains and laterals, and any structural BMP's (pipe galleries, drantile, sediment control structures, weir structures, etc.) installed under any permit, provided to the Public Works Sewer Division;
- Sewer Permit drawings for paving connections or stubs installed to service vertical development provided to Public Works, in addition to Private Service Lateral Permit Drawings;
- Documentation of Public Works notified for signal and lighting inspection of pole field layouts (staking), conduits and foundations installed, poles and wiring installed, and head positioning and phasing/detection verification (signals only);
- For infrastructure within parks: Documentation that Parks Department has been notified of completion status;
- All applicable operation and maintenance manuals provided to Public Works; and
- Certificate of Compliance signed and submitted to City by Engineer of Record.

RELEASE OF PERMIT:

Permit No. _____ Council Res. No. _____ Permit Date _____

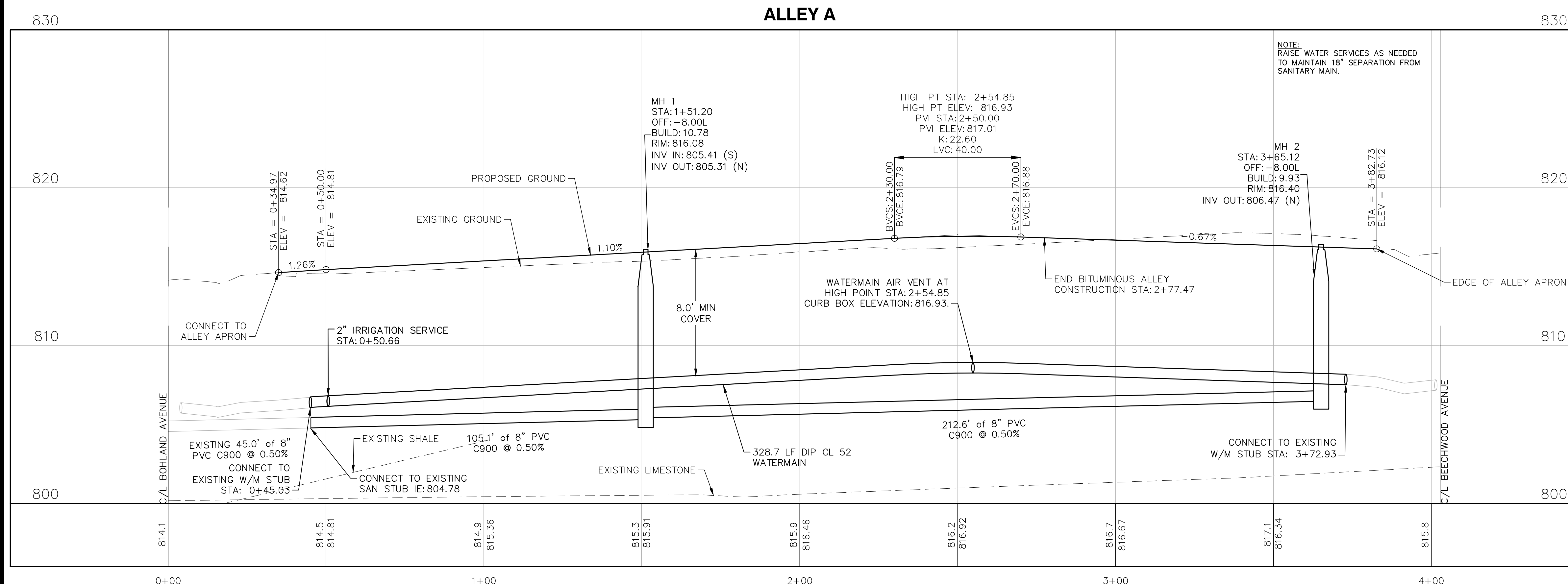
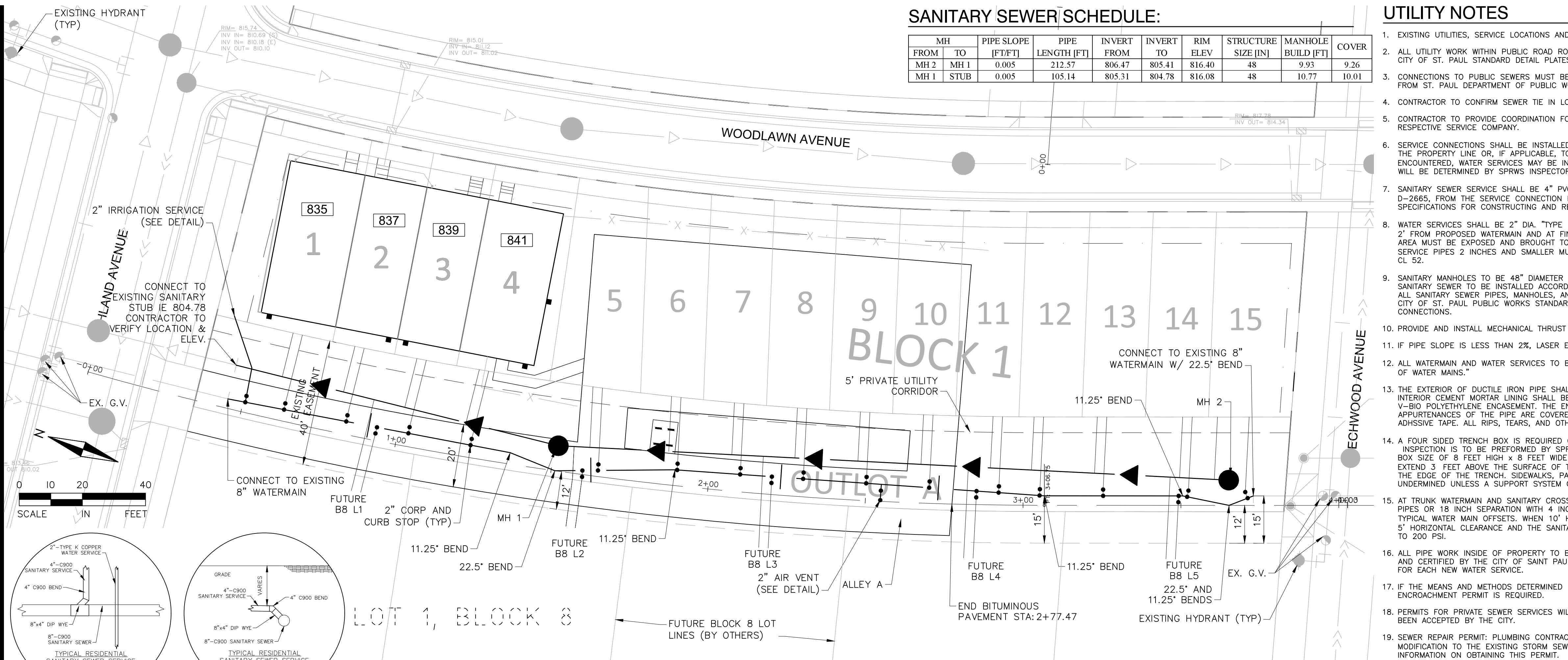
Release Authorized by _____ Title _____

SANITARY SEWER SCHEDULE:

FROM	TO	PIPE SLOPE [F/F]	PIPE LENGTH [FT]	INVERT FROM	INVERT TO	RIM ELEV	STRUCTURE SIZE [IN]	MANHOLE BUILD [FT]	COVER
MH 2	MH 1	0.005	212.57	806.47	805.41	816.40	48	9.93	9.26
MH 1	STUB	0.005	105.14	805.31	804.78	816.08	48	10.77	10.01

UTILITY NOTES

- EXISTING UTILITIES, SERVICE LOCATIONS AND ELEVATIONS SHALL BE VERIFIED IN FIELD PRIOR TO CONSTRUCTION.
- ALL UTILITY WORK WITHIN PUBLIC ROAD ROW SHALL COMPLY WITH MNDOT ENGINEERING DESIGN STANDARDS AND THE CITY OF ST. PAUL STANDARD DETAIL PLATES AND SPECIFICATIONS FOR MANHOLES AND SEWER.
- CONNECTIONS TO PUBLIC SEWERS MUST BE DONE BY A LICENSED HOUSE SEWER CONTRACTOR UNDER A PERMIT FROM ST. PAUL DEPARTMENT OF PUBLIC WORKS.
- CONTRACTOR TO CONFIRM SEWER TIE IN LOCATION AND ELEVATION PRIOR TO MAKING CONNECTION.
- CONTRACTOR TO PROVIDE COORDINATION FOR TELEPHONE, GAS, AND ELECTRIC SERVICE CONNECTION WITH THE RESPECTIVE SERVICE COMPANY.
- SERVICE CONNECTIONS SHALL BE INSTALLED WITH 8" OF COVER AS PER THE ESTABLISHED GRADE FROM THE MAIN TO THE PROPERTY LINE OR, IF APPLICABLE, TO THE UTILITY EASEMENT LINE. WHEN SOLID ROCK CONDITIONS ARE ENCOUNTERED, WATER SERVICES MAY BE INSTALLED WITH 6.5" OF COVER. AT THIS DEPTH, THE NEED FOR INSULATION WILL BE DETERMINED BY SPRWS INSPECTORS.
- SANITARY SEWER SERVICE SHALL BE 4" PVC, C900 WITH DUCTILE IRON CL 52 WYES CONFORMING TO ASTM STANDARD D-2665, FROM THE SERVICE CONNECTION POINT TO THE MAIN LIE CONNECTION POINT PER THE CITY'S STANDARD SPECIFICATIONS FOR CONSTRUCTING AND REPAIRING PRIVATE SEWER CONNECTIONS.
- WATER SERVICES SHALL BE 2" DIA. "TYPE K" COPPER W. 2" CORP. STOP AND 2" CURB BOX. CURB BOX TO BE SET 2" FROM PROPOSED WATERMAIN AND AT FINISHED GRADE. ALL WATER SERVICE VALVE BOXES WITHIN CONSTRUCTION AREA MUST BE EXPOSED AND BROUGHT TO GRADE UPON COMPLETION OF CONSTRUCTION. ALL WATERMAIN OR SERVICE PIPES 2 INCHES AND SMALLER MUST BE TYPE K COPPER. PIPES 4" AND LARGER MUST BE DUCTILE IRON CL 52.
- SANITARY MANHOLES TO BE 48" DIAMETER CONCRETE W/NEENAH R-1642 CASTING, UNLESS NOTED OTHERWISE. ALL SANITARY SEWER TO BE INSTALLED ACCORDING TO CITY OF ST. PAUL PUBLIC WORKS DETAILS AND SPECIFICATIONS. ALL SANITARY SEWER PIPES, MANHOLES, AND SERVICES MUST BE ADHERE AND BE INSTALLED IN ACCORDANCE TO THE CITY OF ST. PAUL PUBLIC WORKS STANDARD SPECIFICATIONS FOR CONSTRUCTING AND REPAIRING PRIVATE SEWER CONNECTIONS.
- PROVIDE AND INSTALL MECHANICAL THRUST RESTRAINT FOR ALL WATER MAIN JOINTS.
- IF PIPE SLOPE IS LESS THAN 2%, LASER EQUIPMENT IS REQUIRED FOR INSTALLATION.
- ALL WATERMAIN AND WATER SERVICES TO BE INSTALLED ACCORDING TO SPRWS "STANDARDS FOR THE INSTALLATION OF WATER MAINS."
- THE EXTERIOR OF DUCTILE IRON PIPE SHALL BE COATED WITH A LAYER ARC SPRAYED ZINC PER ISO 8179. THE INTERIOR CEMENT MORTAR LINING SHALL BE APPLIED WITHOUT ASPHALT SEAL COAT. PIPE MUST BE WRAPPED IN V-BIO POLYETHYLENE ENCASMENT. THE ENCASMENT SHALL BE INSTALLED SUCH THAT ALL METALLIC SURFACES AND APPURTENANCES OF THE PIPE ARE COVERED WITH THE ENCASMENT AND SECURED USING POLYETHYLENE COMPATIBLE ADHSSIVE TAPE. ALL RIPS, TEARS, AND OTHER DAMAGES SHALL BE REPAIRED WITH COMPATIBLE ADHSSIVE TAPE.
- A FOUR SIDED TRENCH BOX IS REQUIRED ON ALL EXCAVATIONS DEEPER THAN 5' WHERE UNDERGROUND WORK OR INSPECTION IS TO BE PERFORMED BY SPRWS. FOR ALL WET TAPS TO BE PREFORMED SPRWS. A MINIMUM TRENCH BOX SIZE OF 8 FEET HIGH X 8 FEET WIDE X 10 FEET LONG IS REQUIRED. LADDERS ARE REQUIRED AND MUST EXTEND 3 FEET ABOVE THE SURFACE OF THE TRENCH. EXCAVATED MATERIAL MUST BE KEPT A MINIMUM OF 2' FROM THE EDGE OF THE TRENCH, SIDEWALKS, PAVEMENTS, DUCTS AND APPURTENANT STRUCTURES SHALL NOT BE UNDERMINED UNLESS A SUPPORT SYSTEM OR ANOTHER METHOD OF PROTECTION IS PROVIDED.
- AT TRUNK WATERMAIN AND SANITARY CROSSINGS, MAINTAIN 3 FEET VERTICAL SEPARATION BETWEEN WATER AND SEWER PIPES OR 18 INCH SEPARATION WITH 4 INCH HIGH DENSITY INSULATION PER SPRWS STANDARD PLATE D-10 FOR TYPICAL WATER MAIN OFFSETS. WHEN 10' HORIZONTAL CLEARANCE FROM SANITARY SEWER CANNOT BE MET, MAINTAIN 5' HORIZONTAL CLEARANCE AND THE SANITARY SEWER MATERIAL SHALL BE PVC C900 DR14 AND PRESSURE RATED TO 200 PSI.
- ALL PIPE WORK INSIDE OF PROPERTY TO BE PERFORMED BY A PLUMBER LICENSED BY THE STATE OF MINNESOTA AND CERTIFIED BY THE CITY OF SAINT PAUL. SPRWS REQUIRES SEPARATE OUTSIDE AND INSIDE PLUMBING PERMITS FOR EACH NEW WATER SERVICE.
- IF THE MEANS AND METHODS DETERMINED BY THE CONTRACTOR REQUIRES ANY WORK IN THE ROW, AND ENCROACHMENT PERMIT IS REQUIRED.
- PERMITS FOR PRIVATE SEWER SERVICES WILL NOT BE ISSUED UNTIL THE PUBLIC SANITARY MAIN IN THE ALLEY HAS BEEN ACCEPTED BY THE CITY.
- SEWER REPAIR PERMIT: PLUMBING CONTRACTOR TO OBTAIN REPAIR PERMITS FROM PUBLIC WORKS FOR PROPOSED MODIFICATION TO THE EXISTING STORM SEWER CONNECTIONS. CALL ST. PAUL PW PERMIT DESK (651-266-6234) FOR INFORMATION ON OBTAINING THIS PERMIT.



BLOCK	LOT	STATION	IE	FINAL EL.**	CBE	LFE	RISER
1	1	15	805.81	816.42	815.07	816.78	0
1	2	35	805.92	816.45	815.30	816.78	0
1	3	55	806.04	816.90	815.52	817.28	0
1	4	75	806.17	816.96	815.74	817.28	0
1	5	10	806.51	817.60	816.15	818.08	0
1	6	35	806.60	817.97	816.49	818.58	0
1	7	55	806.68	818.40	816.72	819.08	0
1	8	75	806.76	818.32	816.94	819.08	0
1	9	95	806.86	818.69	817.07	818.96	0
1	10	115	806.96	818.65	817.01	818.83	0
1	11	137	807.08	818.68	816.85	818.59	0
1	12	150	807.16	818.17	816.74	818.59	0
1	13	170	807.28	818.20	816.60	818.59	0
1	14	197	807.44	818.21	816.42	818.59	0
1	15	208	807.51	818.19	816.29	819.59	0
8*	1	45	806.27	815.08	815.33	0.00	0
8*	2	5	806.61	815.72	816.03	0.00	0
8*	3	55	806.93	816.01	816.75	0.00	0
8*	4	130	807.30	816.60	816.82	0.00	0
8*	5	192	807.61	815.11	816.37	0.00	0

NOTE: RAISE WATER SERVICES AS NEEDED TO MAINTAIN 18" SEPARATION FROM SANITARY MAIN.
 * = Preliminary Plot Block Number. Services for lots currently unplatted. LFE TBD
 ** = Final grade elevation at sanitary service stub

LEGEND

- LOT LINE
- PROPERTY LINE
- - - BUILDING SETBACK
- - - EASEMENT LINE
- - - UTILITY CORRIDOR
- - - ROW
- PROPOSED WATERMAIN
- PROPOSED SANITARY SEWER
- EXISTING WATERMAIN
- EXISTING SANITARY SEWER
- EXISTING STORM SEWER
- EXISTING SANITARY MANHOLE
- EXISTING HYDRANT
- EXISTING GATE VALVE
- EXISTING CB
- PROPOSED SANITARY MANHOLE

ALLIANT
 733 Marquette Avenue
 Suite 700
 Minneapolis, MN 55402
 612.758.3080
 www.alliant-inc.com

Pulte HOMES

HIGHLAND Bridge

HIGHLAND BRIDGE MODEL HOME
 SAINT PAUL, MINNESOTA
PLAN SET - SUBMITTAL
 SANITARY SEWER AND WATERMAIN PLAN AND PROFILE

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed PROFESSIONAL ENGINEER under the laws of the State of MINNESOTA

MARK RAUSCH, PE
 10-29-20 43480
 Date License No.

QUALITY ASSURANCE/CONTROL

DATE	ISSUE
7-24-20	CITY SUBMITTAL
9-22-20	BID SET
9-22-20	CITY RESUBMITTAL
9-23-20	CRWD SUBMITTAL
10-12-20	CITY RESUBMITTAL
10-14-20	CITY RESUBMITTAL
10-29-20	CITY RESUBMITTAL

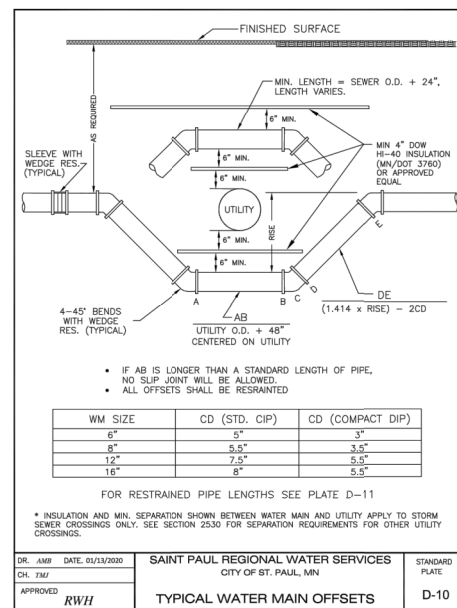
PROJECT TEAM DATA

DESIGNED:	MPR
DRAWN:	ELL
PROJECT NO:	219-0225

10

SHEET 10 of 18

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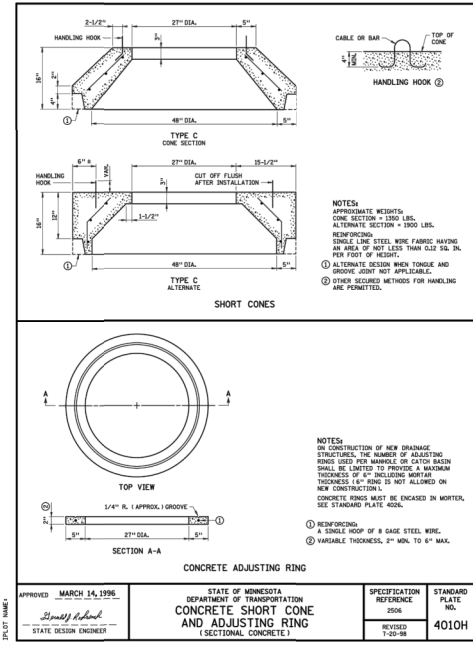
SAINT PAUL REGIONAL WATER SERVICES
CITY OF ST. PAUL, MN
TYPICAL WATER MAIN OFFSETS
D-10

DUCTILE IRON PIPE (DIP) WRAPPED IN POLYETHYLENE

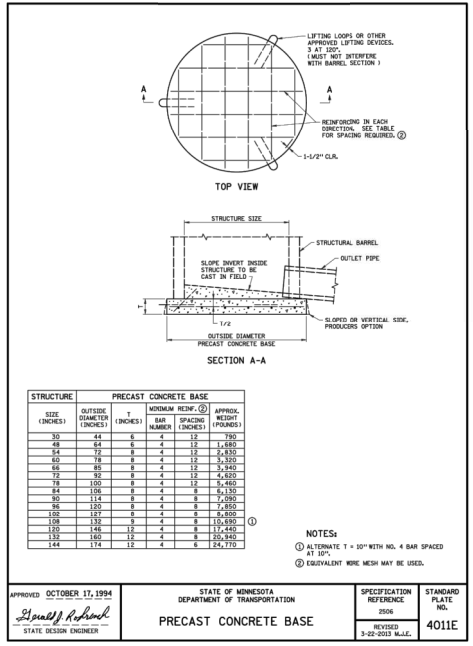
MINIMUM FEET OF RESTRAINED PIPE REQUIRED

PIPE SIZE	7.0' COVER			8.0' COVER		
	22.5'	45'	90'	22.5'	45'	90'
4"	2	5	10	2	4	9
6"	3	6	14	4	7	13
8"	4	8	19	5	10	23
12"	6	11	26	7	14	31
16"	7	14	34	9	18	41
20"	9	17	41	11	22	52
24"	10	20	48	13	26	61
30"	12	24	58	16	32	77
36"	14	28	68	19	39	93
42"	16	32	77	22	46	111
48"	17	36	85	24	51	123

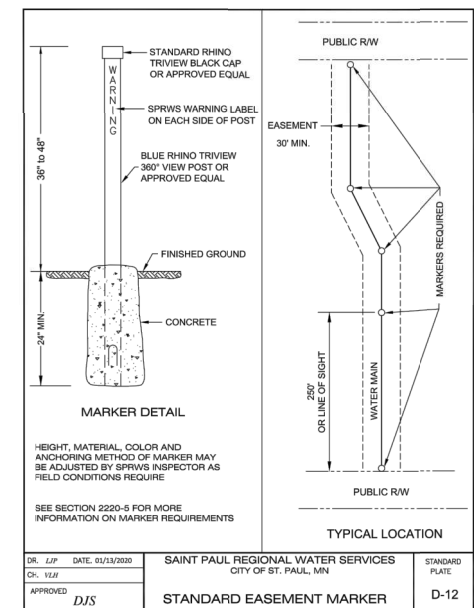
SAINT PAUL REGIONAL WATER SERVICES
CITY OF ST. PAUL, MN
RESTRAINED PIPE REQUIREMENT
DIP 7.0' - 8.0' EARTH COVER
D-11
2 of 4



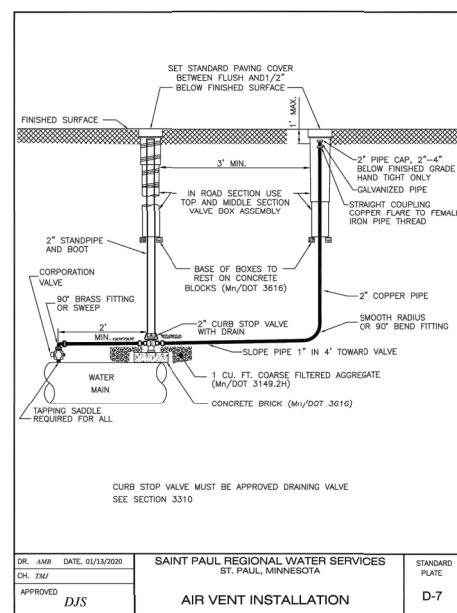
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CITY OF ST. PAUL, MN
CONCRETE SHORT CONE AND ADJUSTING RING
D-12
4010H



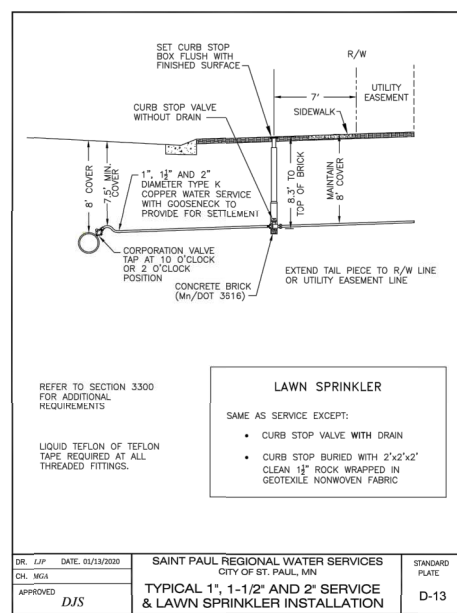
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CITY OF ST. PAUL, MN
PRECAST CONCRETE BASE
D-12
4011E



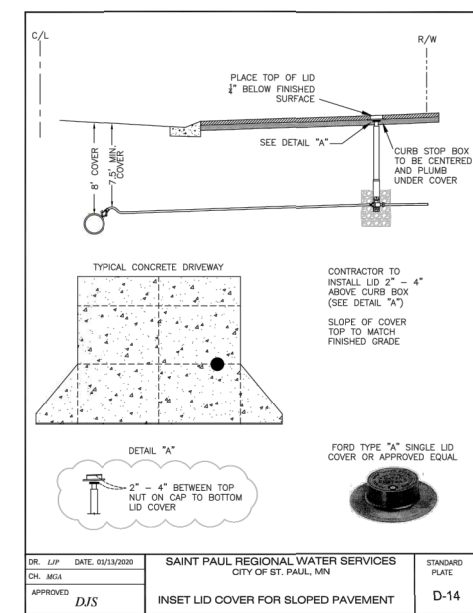
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CITY OF ST. PAUL, MN
STANDARD EASEMENT MARKER
D-12



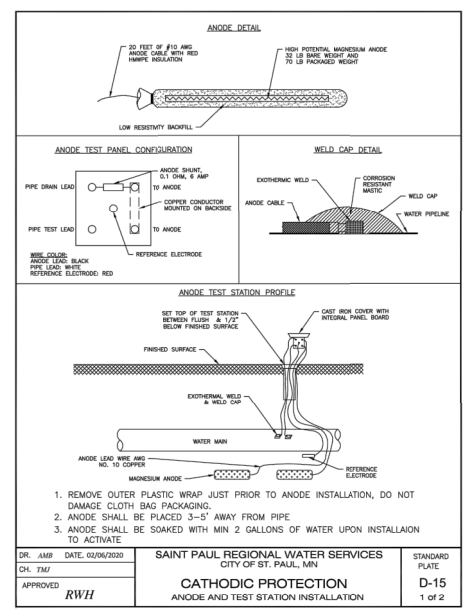
SAINT PAUL REGIONAL WATER SERVICES
CITY OF ST. PAUL, MN
AIR VENT INSTALLATION
D-7



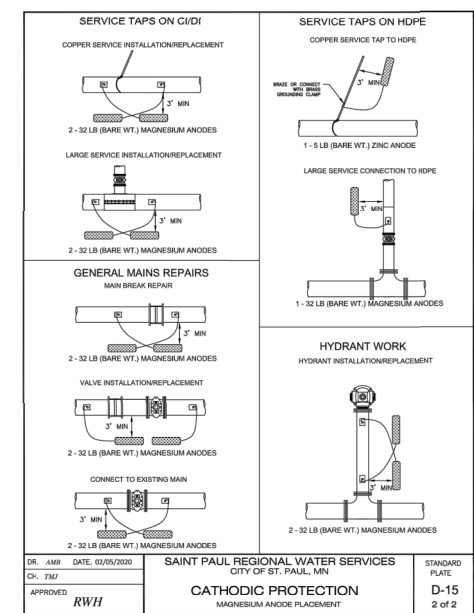
SAINT PAUL REGIONAL WATER SERVICES
CITY OF ST. PAUL, MN
TYPICAL 1", 1-1/2" AND 2" SERVICE & LAWN SPRINKLER INSTALLATION
D-13



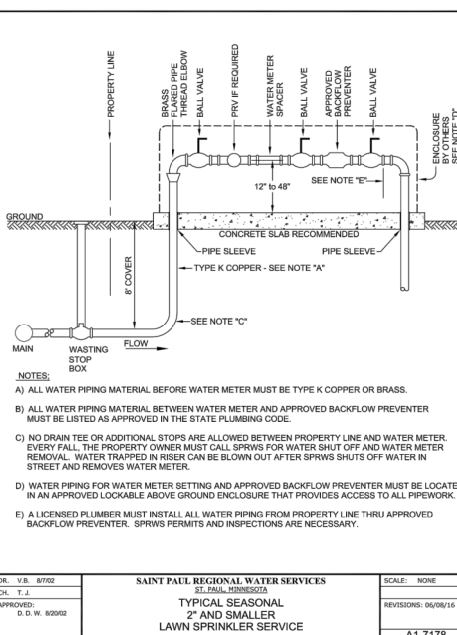
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CITY OF ST. PAUL, MN
INSET LID COVER FOR SLOPED PAVEMENT
D-14



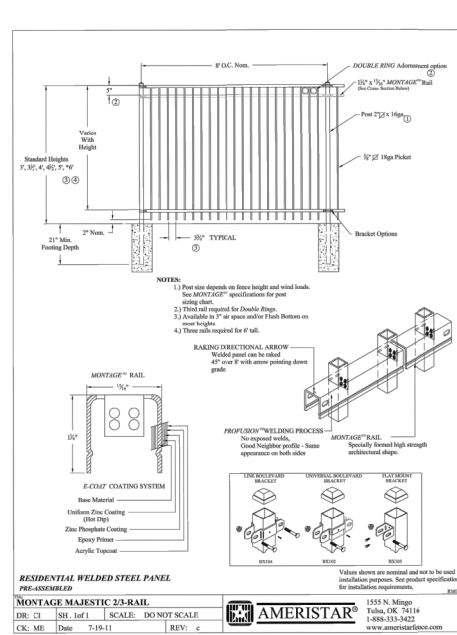
SAINT PAUL REGIONAL WATER SERVICES
CITY OF ST. PAUL, MN
CATHODIC PROTECTION ANODE AND TEST STATION INSTALLATION
D-15
1 of 2



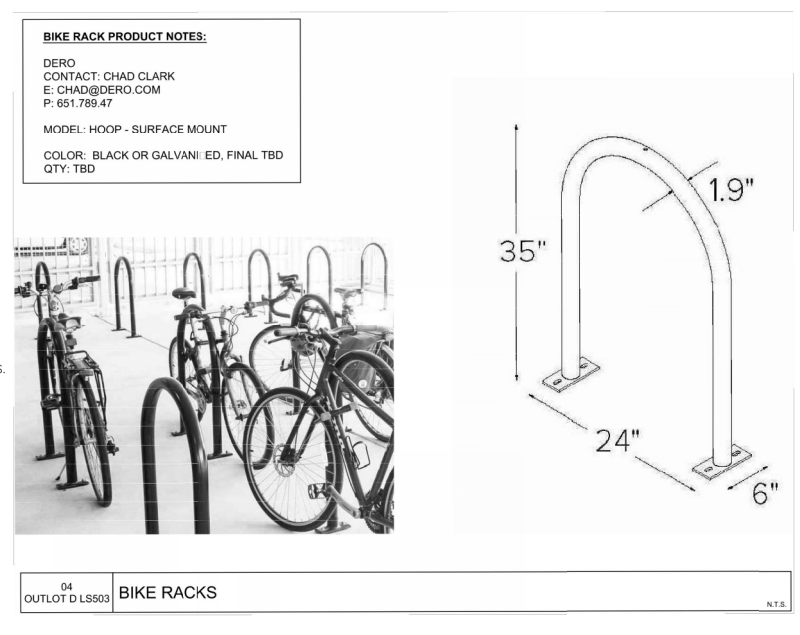
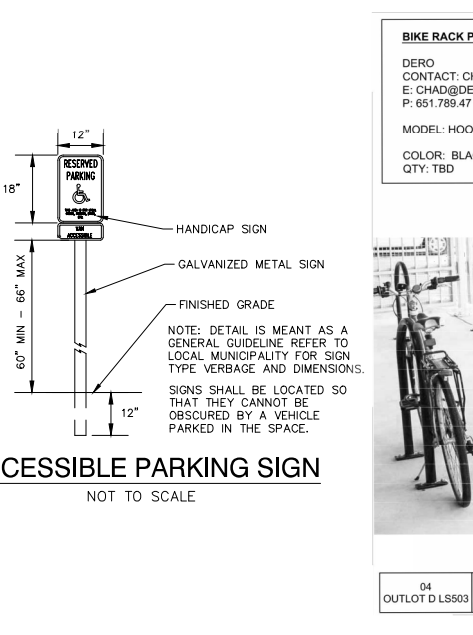
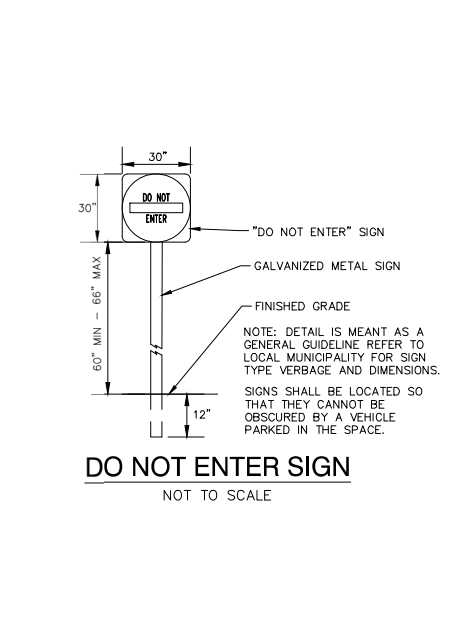
SAINT PAUL REGIONAL WATER SERVICES
CITY OF ST. PAUL, MN
CATHODIC PROTECTION MAGNESIUM ANODE PLACEMENT
D-15
2 of 2



SAINT PAUL REGIONAL WATER SERVICES
CITY OF ST. PAUL, MN
TYPICAL SEASONAL 2" AND SMALLER LAWN SPRINKLER SERVICE
A1-7178



AMERISTAR
1553 N. Milgo
Tulsa, OK 74114
1-800-333-3423
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04 OUTLOT D L5503 BIKE RACKS
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612.758.3080
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Pulte Homes
HIGHLAND
Bridge

HIGHLAND BRIDGE MODEL HOME
 SAINT PAUL, MINNESOTA
PLAN SET - SUBMITTAL
DETAILS

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed PROFESSIONAL ENGINEER under the laws of the State of MINNESOTA.

Mark Rausch
MARK RAUSCH, PE
10-29-20 43480
Date License No.

QUALITY ASSURANCE/CONTROL

BY	DATE
DATE	ISSUE
7-24-20	CITY SUBMITTAL
9-22-20	BID SET
9-22-20	CITY RESUBMITTAL
9-23-20	CRWD SUBMITTAL
10-12-20	CITY RESUBMITTAL
10-14-20	CITY RESUBMITTAL
10-29-20	CITY RESUBMITTAL

PROJECT TEAM DATA

DESIGNED: MPR
DRAWN: ELL
PROJECT NO: 219-0225

3

SHEET 3 of 12

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Drawing name: C:\pwworking\project\wise\m\residential\190925\del.dwg Oct 29 2020 6:23am

TYPE 7A AND 7B CATCH BASIN (2' X 3')	TYPE 5A AND 6A CATCH BASIN (2' X 2')	TYPE 2A, 3B, AND 3C CATCH BASIN (ROUND)
<p>OPTION 1</p> <p>OPTION 2</p>	<p>OPTION 1</p> <p>OPTION 2</p>	<p>OPTION 1</p> <p>OPTION 2</p>
<p>TEMPORARY SEDIMENT CONTROL STANDARD PLATE NO. 2400A</p>		

DETAIL WATER TIGHT CONNECTIONS

CHECK DAM/FLotation SILT CURTAIN

CHECK DAM

SPECIFIC NOTES:
 (1) FLOCCULANT ADDED UPSTREAM OF SILT CURTAIN
 (2) SILT CURTAIN SHALL BE INSTALLED PER MH002 SPEC 2573 AND 3887.

TEMPORARY SEDIMENT CONTROL
TUNNEL EROSION CONTROL
STANDARD PLATE NO. 2405

DETAIL WATER TIGHT CONNECTIONS

TEMPORARY SEDIMENT CONTROL
TUNNEL EROSION CONTROL
STANDARD PLATE NO. 2405

DETAIL WATER TIGHT CONNECTIONS

TEMPORARY SEDIMENT CONTROL
TUNNEL EROSION CONTROL
STANDARD PLATE NO. 2405

AREA DRAINS AND INTERIM CONDITIONS

TEMPORARY SEDIMENT CONTROL
STANDARD PLATE NO. 2402

SECTION

PLAN

NOTES:
 1. FRAME CASTING "A" TO BE USED WITH COVER CASTING "B" OR "C".
 2. CASTING SHALL BE CONSTRUCTED OF UNPAVED GRAY OR LIGHT BROWN CONCRETE.
 3. CASTING SHALL BE SUPPLIED WITH SELF-SEALING JOINTS OF POLYURETHANE.
 4. EACH CASTING SHALL BE IDENTIFIED WITH RECESSED FLUSH MARKS.
 5. ALL CASTINGS SHALL BE IDENTIFIED WITH RECESSED FLUSH MARKS.
 6. ALL CASTINGS SHALL BE IDENTIFIED WITH RECESSED FLUSH MARKS.
 7. ALL CASTINGS SHALL BE IDENTIFIED WITH RECESSED FLUSH MARKS.

TEMPORARY SEDIMENT CONTROL
STANDARD PLATE NO. 2201E

CONCRETE PICHOLE DETAIL

TEMPORARY SEDIMENT CONTROL
STANDARD PLATE NO. 2202D

BEDDING IN ROCK

TEMPORARY SEDIMENT CONTROL
STANDARD PLATE NO. 2317D

TYPICAL INTERSECTION

SAINT PAUL REGIONAL WATER SERVICES
CITY OF ST. PAUL, MN
STANDARD PLATE D-1

VALVE BOX & INSTALLATION

SAINT PAUL REGIONAL WATER SERVICES
ST. PAUL, MINNESOTA
STANDARD PLATE D-2

NIPLLE THREAD

Threads Per Inch	6
Nom Major Diameter	5.531
Max Major Diameter	5.541
Min Major Diameter	4.491
Max Pitch Diameter	5.445
Min Pitch Diameter	5.427
Max Minor Diameter	5.537

SAINT PAUL REGIONAL WATER SERVICES
CITY OF ST. PAUL, MN
STANDARD PLATE D-4

WATER MAIN TRENCH DETAIL

SAINT PAUL REGIONAL WATER SERVICES
CITY OF ST. PAUL, MN
STANDARD PLATE D-5

RESIDENTIAL LIMITED-FIRE SPRINKLER INSTALLATION REQUIREMENTS

APPROVED BACKFLOW PREVENTERS:

- Single Check Valve Required
- All materials must conform to the requirements for potable water piping in the Minnesota State Plumbing Code.
- If fire suppression additives or anti-freeze are used, a Reduced Pressure Zone (RPZ) Backflow Preventer Assembly conforming to ASSE 1013 is required, per Minnesota State Plumbing Code Section 474.0603.5.15.2. Assembly must be tested annually. Maintenance shall be the responsibility of the owner.
- Backflow Preventer and piping ahead of Backflow Preventer Assembly must be installed under SPRWS Permit by licensed plumber. For permits and inspections call (651)296-6270.
- Valves must be Niobco, Watt, Wolverine or approved equal.
- Multipurpose potable water piping systems (piping is supplying both fire protection and domestic plumbing fixtures from the same piping) can only be installed by a licensed plumbing contractor who is also certified by the system manufacturer.

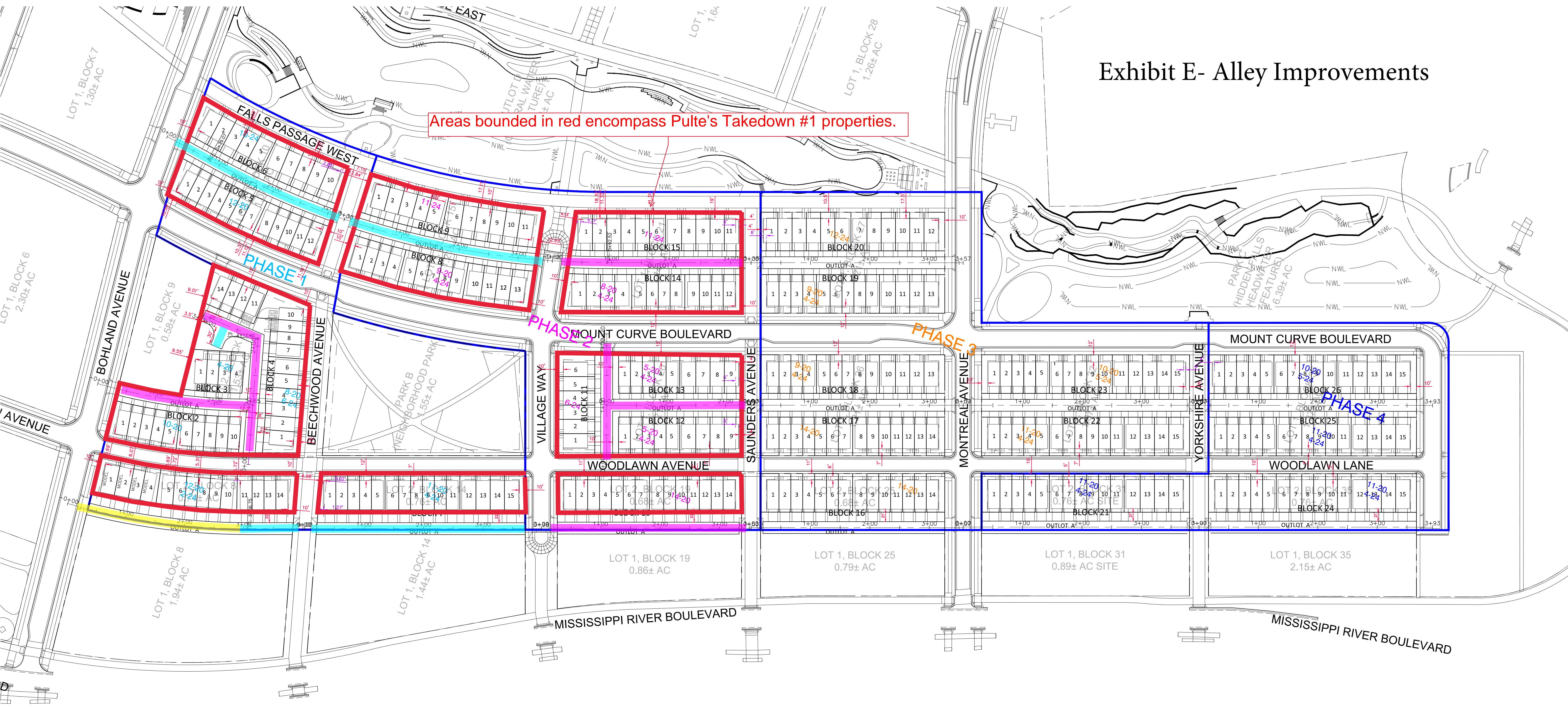
WATER CODE SECTION 88.17(b):

Automatic sprinklers to be installed in a building not served by a separate automatic fire service and to be used exclusively for fire protection purposes may be installed in accordance with the provisions of this chapter, except that the design demand of the automatic sprinkler shall not exceed the capacity of the domestic service and meter. If a proposed automatic sprinkler system design demand exceeds one hundred fifty (150) gallons per minute, a separate fire service is required. Automatic sprinkler interior piping shall be separated from the domestic water system by use of an approved type backflow preventer. No antifreeze shall be introduced into existing automatic sprinkler systems unless that system meets the current provisions of the State Plumbing Code. Property owners shall notify the utility when additives are used in a system.

SAINT PAUL REGIONAL WATER SERVICES
(SPRWS)
TYPICAL ONE AND TWO FAMILY RESIDENTIAL LIMITED FIRE SPRINKLER INSTALLATION
STANDARD PLATE NONE
REVISIONS 10/3/20
REVISED 08/16/06
01/29/14

Exhibit E- Alley Improvements

Areas bounded in red encompass Pulte's Takedown #1 properties.



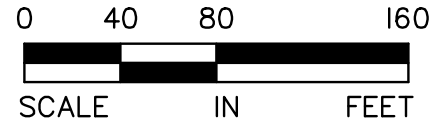
Pulte Completion Dates for Alley Infrastructure
 November 1, 2020 - Pulte development Phase 1 - models
 November 1, 2021 - Pulte development Phase 1
 November 1, 2022 - Pulte development Phase 2

LEGEND

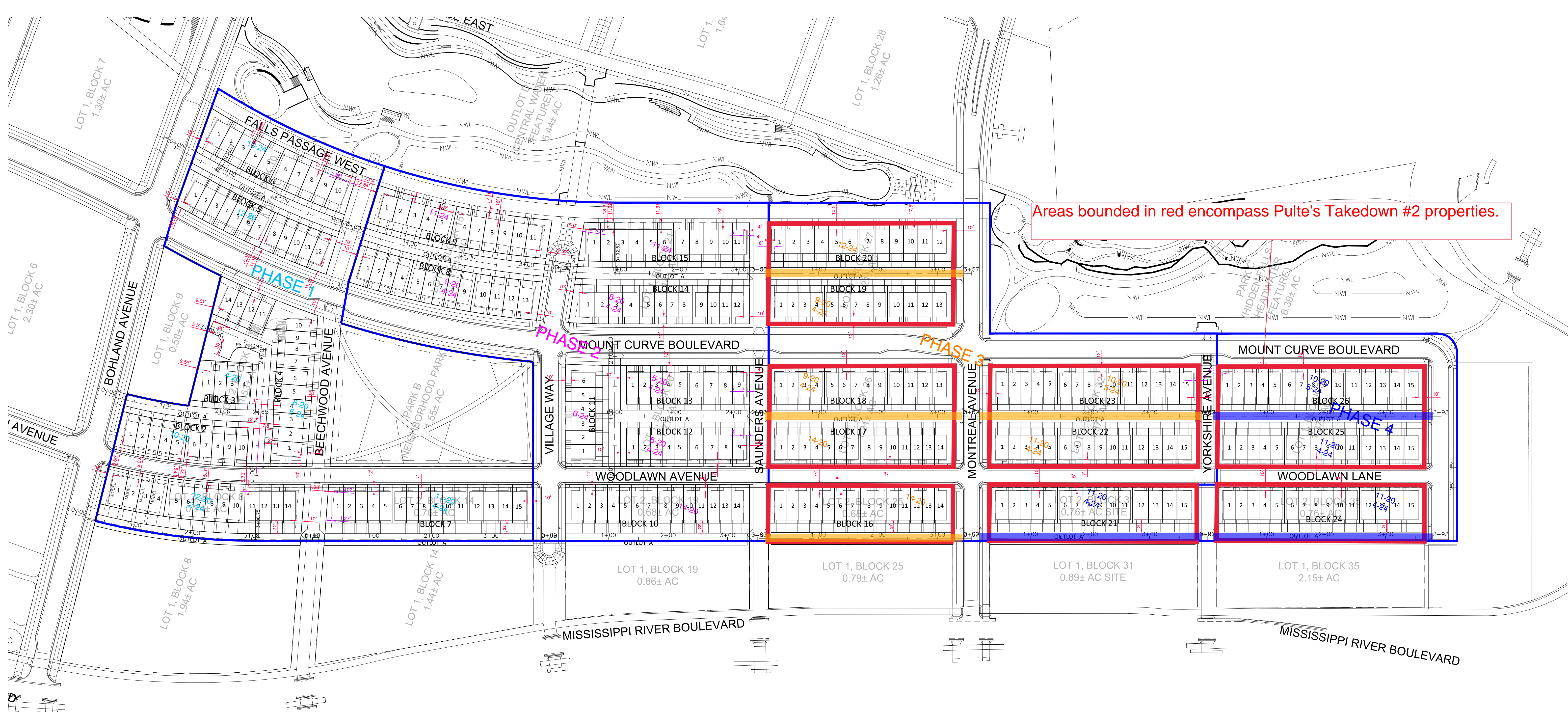
PHASE 1 UNITS	= 79 - 57/20', 22/24' (72.2%/27.8%)
PHASE 2 UNITS	= 85 - 41/20', 44/24' (48.2%/51.8%)
PHASE 3 UNITS	= 96 - 67/20', 29/24' (69.8%/30.2%)
PHASE 4 UNITS	= 60 - 43/20', 17/24' (71.7%/28.3%)
TOTAL UNITS	= 320 - 208/20', 112/24' (65.0%/35.0%)
— PULTE PHASING BOUNDARY	



FORD PROPERTY - SITE PLAN UPDATE FOR TRAIL CORRIDOR SETBACK REDUCTION



DATE: 5/19/2020 - prop blk 9 update



Areas bounded in red encompass Pulte's Takedown #2 properties.

Pulte Completion Dates for Alley Infrastructure

September 1, 2023 - Pulte development Phase 3

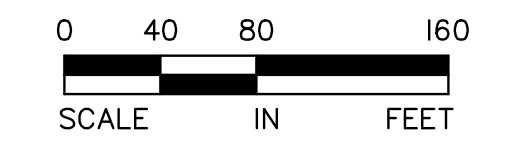
September 1, 2024 - Pulte development Phase 4

LEGEND

PHASE 1 UNITS	= 79 - 57/20', 22/24' (72.2%/27.8%)
PHASE 2 UNITS	= 85 - 41/20', 44/24' (48.2%/51.8%)
PHASE 3 UNITS	= 96 - 67/20', 29/24' (69.8%/30.2%)
PHASE 4 UNITS	= 60 - 43/20', 17/24' (71.7%/28.3%)
TOTAL UNITS	= 320 - 208/20', 112/24' (65.0%/35.0%)
	PULTE PHASING BOUNDARY



FORD PROPERTY - SITE PLAN UPDATE FOR TRAIL CORRIDOR SETBACK REDUCTION



DATE: 5/19/2020 - prop blk 9 update