RAIN GARDEN AND BUMP OUT PROJECT

PREPARED FOR

BOROUGH OF BOYERTOWN

BERKS COUNTY, PENNSYLVANIA

BY

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1047 North Park Road
Reading, PA 19610-0307
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101 East Evans Street
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SSM
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Engineers and Consultants
ssmgroup.com

PLAN SUBMITTAL/REVISION DATE	
ISSUED FOR BIDDING	05/02/22
ADDENDUM 1	05/13/22
PLAN REVISIONS 1	09/13/22

105178.0024 C.0-01

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PA ONE CALL INFORMATION

PENNSYLVANIA ONE CALL SYSTEM, INC. 1-800-242-1776 STOP-CALL BEFORE YOU DIG!

PA ONE CALL SERIAL NUMBER: 20202372985, 20202373008, 20202373046, 20202373080 & 20202373111
MUNICIPALITY: BOROUGH OF BOYERTOWN, BERKS COUNTY

IT IS THE CONTRACTORS RESPONSIBILITY TO COMPLY WITH THE PENNSYLVANIA ACT 287 AND TO CONTACT THE "ONE CALL SYSTEM" THREE (3) WORKING DAYS (UNLESS OTHERWISE NOTED) PRIOR TO START OF CONSTRUCTION.

WINDSTREAM
EMAIL: LOCATE.DESK@WINDSTREAM.COM

UGI UTILITY LANCASTER
EMAIL: KZIELASKOWSKI@UGI.COM

INFRAMARK
EMAIL:NATHAN.LAUCKS@INFRAMARK.COM

BERKS MONTGOMERY MUN. AUTH.
EMAIL: LEWCHRISTY@DEJAZZED.COM

MET ED FIRST ENERGY
EMAIL: PHACHEM@FIRSTENERGYCORP.COM

VERIZON BUSINESS FORMERLY MCI
EMAIL: INVESTIGATIONS@VERIZON.COM

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CONTACT: DAVE FIEDLER

TERRADEX INC.
OPERATOR@TERRADEX.COM

OWNER:
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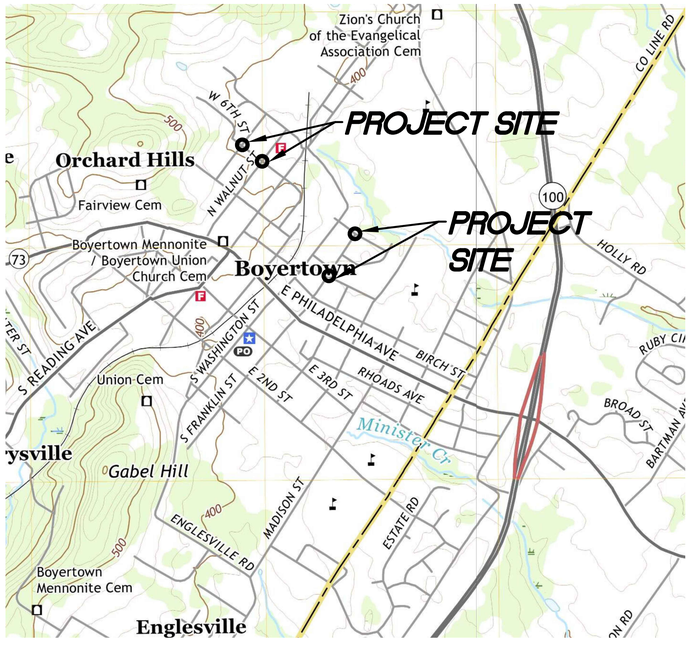
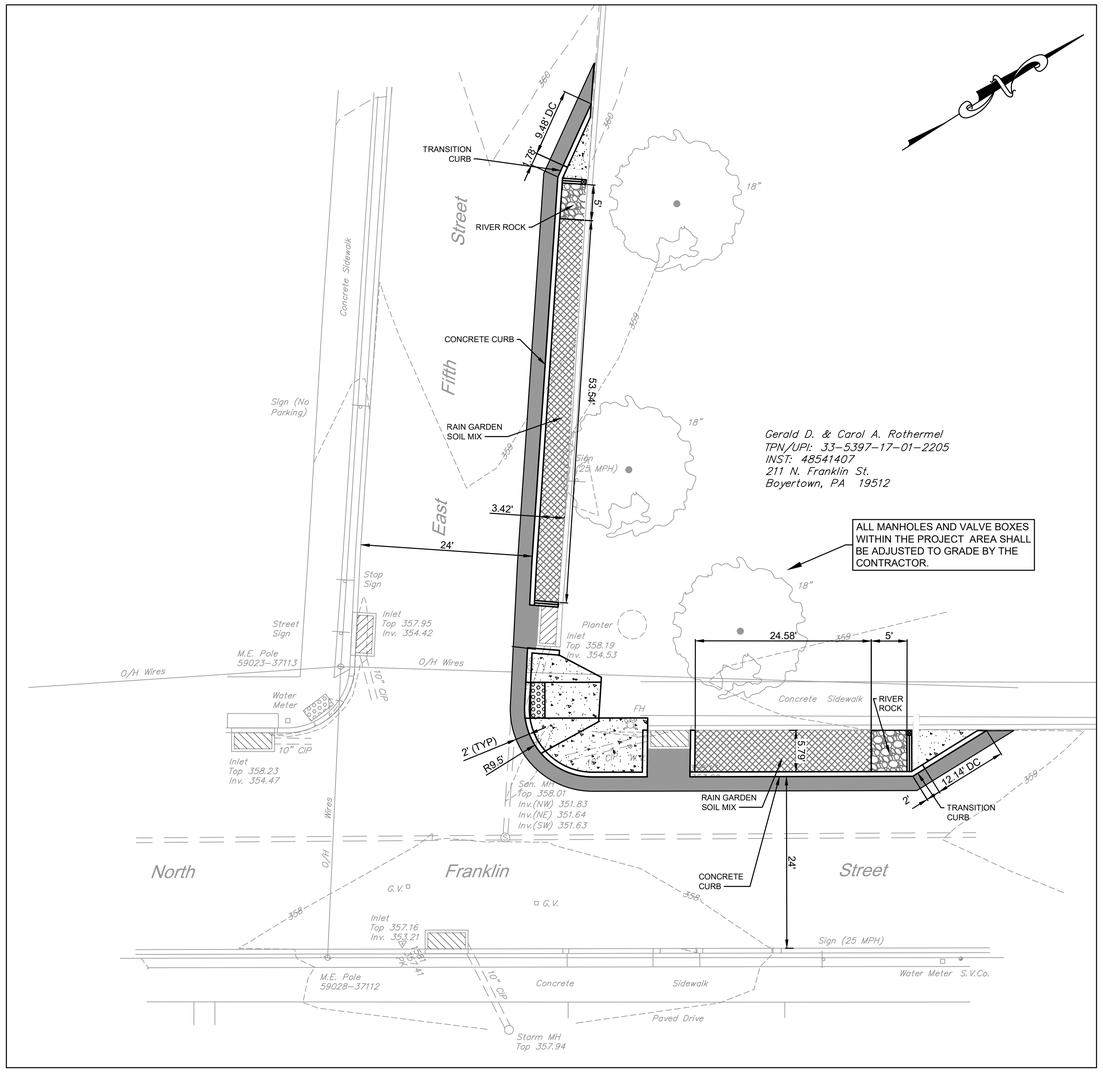
CONTACT: PARTICIA LODER, BOROUGH MANAGER
PHONE: 610-369-3028
EMAIL: ploder@boyertownborough.org
ADDRESS: 100 S. WASHINGTON STREET
BOYERTOWN, PA 19512

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL ENGINEER
NICHOLAS A. SZEREDAI
PE085674

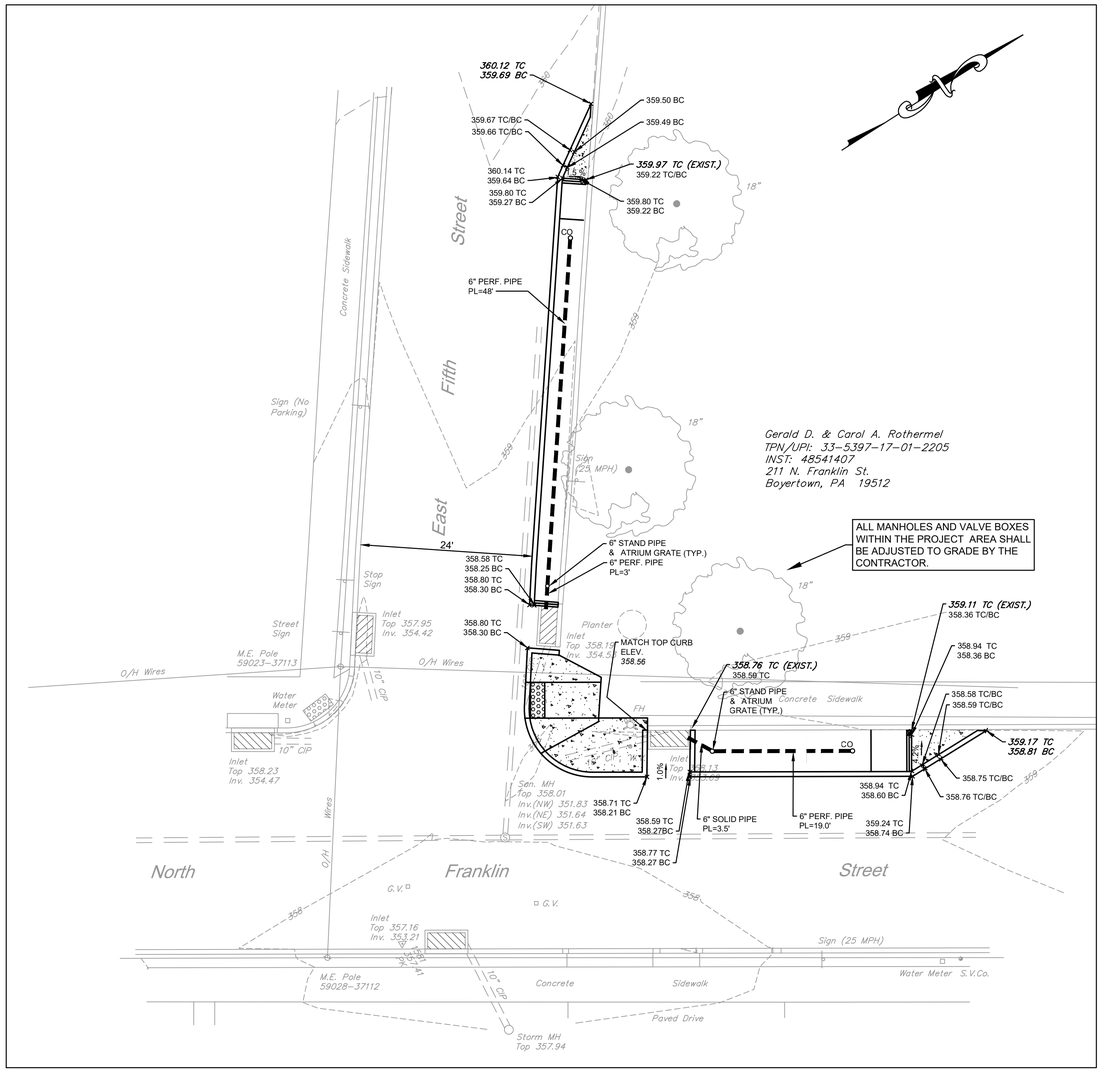
LOCATION MAP

SCALE: 1" = 1000'





SITE LAYOUT



SPOT ELEVATIONS

EXISTING LEGEND

- EXISTING SANITARY MANHOLE
- EXISTING TREE
- EXISTING SIGN
- EXISTING FIRE HYDRANT
- EXISTING INLET
- G.V. EXISTING GAS VALVE
- W.V. EXISTING WATER VALVE
- W.C.S. EXISTING WATER STRUCTURE
- EXISTING UTILITY POLE
- EXISTING MAILBOX
- g EXISTING GASLINE
- w EXISTING WATERLINE
- EXISTING RIGHT-OF-WAY
- EXISTING STORM SEWER
- EXISTING SANITARY SEWER
- O/H Wires EXISTING OVERHEAD UTILITY LINES
- EXISTING CURB

PROPOSED LEGEND

- PROPOSED CURB
- DC PROPOSED DEPRESSED CURB
- DWS
- PROPOSED FULL DEPTH ASPHALT PAVING RECONSTRUCTION
- PROPOSED CONCRETE OR CONCRETE SIDEWALK
- RIVER ROCK
- RAIN GARDEN MIX
- GRASS AREAS
- CO STORM PIPE WITH CLEANOUT

GRAPHIC SCALE

10' 0' 10' 20'

Scale 1"=10'

NO.	DATE	DESCRIPTION	MADE	CHKD	APV'D
2	09/13/22	RAIN REWORKS 1	NS	KKM	NS
1	06/13/22	ADDENDUM 1	KKS	NS/JC	KDM
0	05/02/22	ISSUED FOR BIDDING	KKS	NS/KDM	KDM

RELEASED FOR:
CONSTRUCTION

DATE: 03/29/22

PROJECT MANAGER: KDM
BASE BY: HMM
DRAWN BY: JC
N.B.:
DESIGNED BY: JC
CHKD:

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
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BOROUGH OF BOYERTOWN

BERKS COUNTY, PENNSYLVANIA

RAIN GARDEN AND BUMP OUT PROJECT

N FRANKLIN AND E FIFTH STREET

SITE LAYOUT AND SPOT ELEVATION PLAN

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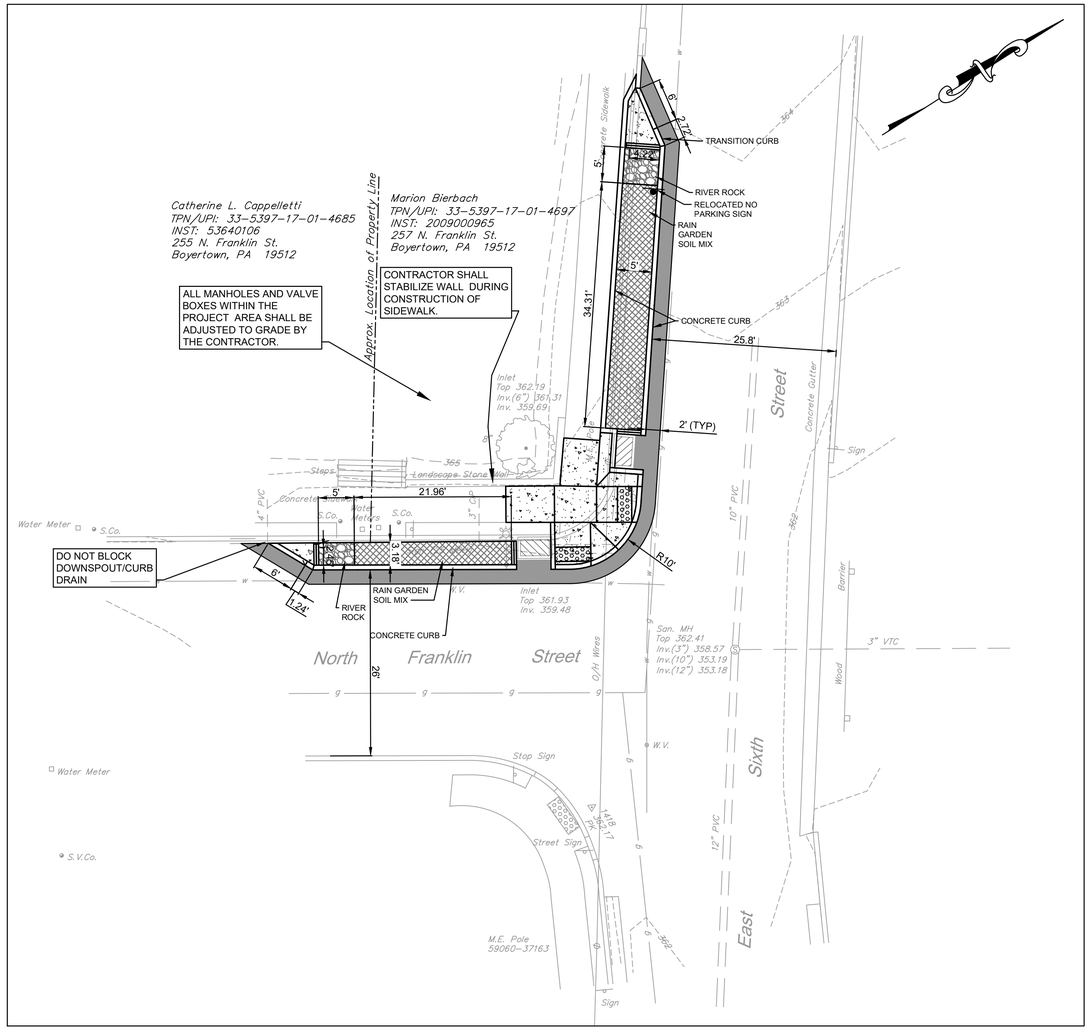
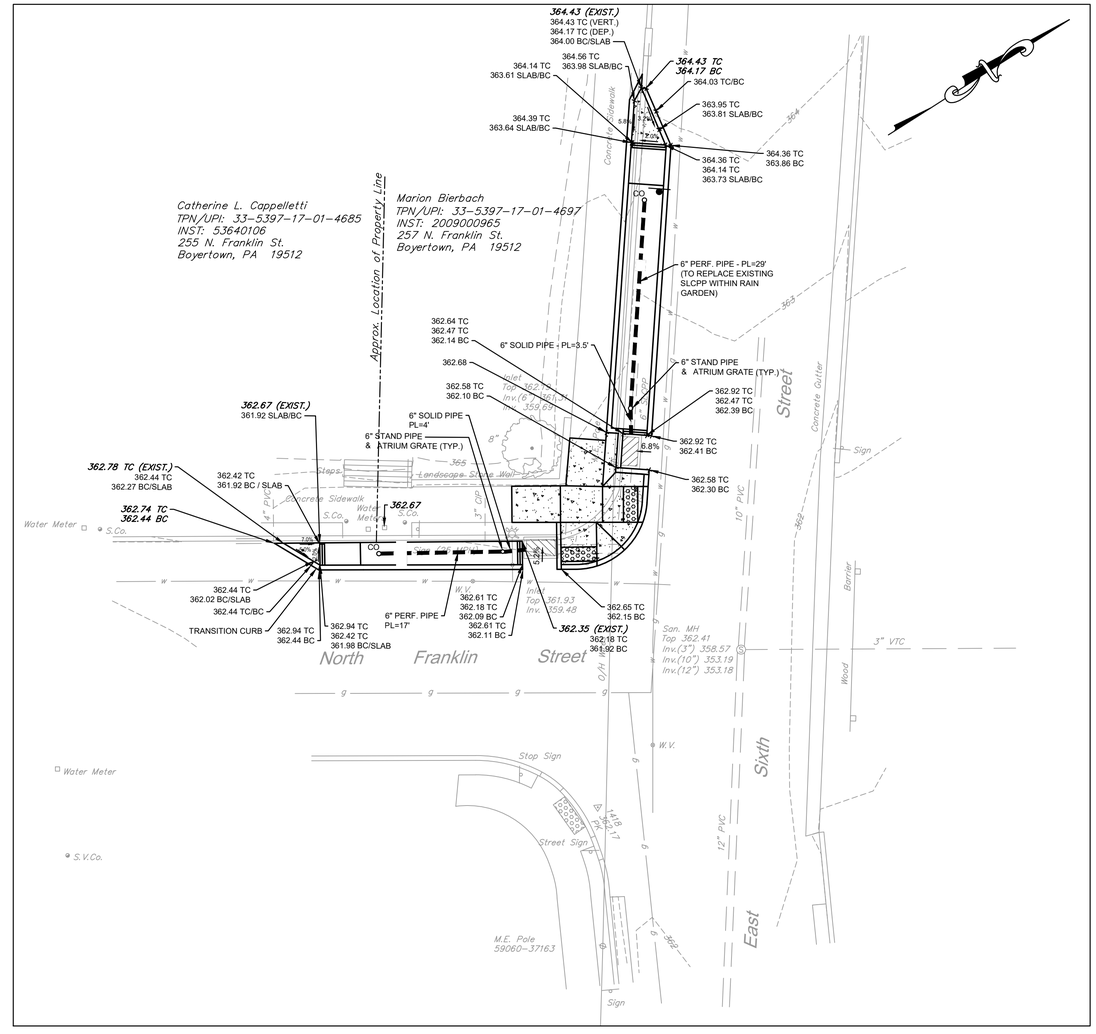
DATE	DIGITAL FILENAME
03/29/22	1051780024 C.1-01

WORK ORDER NUMBER: 105178.0024

DRAWING NUMBER: C.1-01



SITE LAYOUT



SPOT ELEVATIONS

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2	09/13/22	PLAN REVISIONS 1	NS	KDM	NS
1	06/13/22	ADDENDUM 1	KKS	NS/JC	KDM
0	05/02/22	ISSUED FOR BIDDING	KKS	NS/KDM	KDM

RELEASED FOR:
CONSTRUCTION

PROJECT MANAGER: KDM
BASE BY: HMM
DRAWN BY: JC
DATE: 03/29/22
N.B.:
DESIGNED BY: JC
CHKD:

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
NICHOLAS A. SZEREDAI
ENGINEER
PE085674

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BOROUGH OF BOYERTOWN
BERKS COUNTY, PENNSYLVANIA
RAIN GARDEN AND BUMP OUT PROJECT
N FRANKLIN AND SIXTH STREET
SITE LAYOUT PLAN

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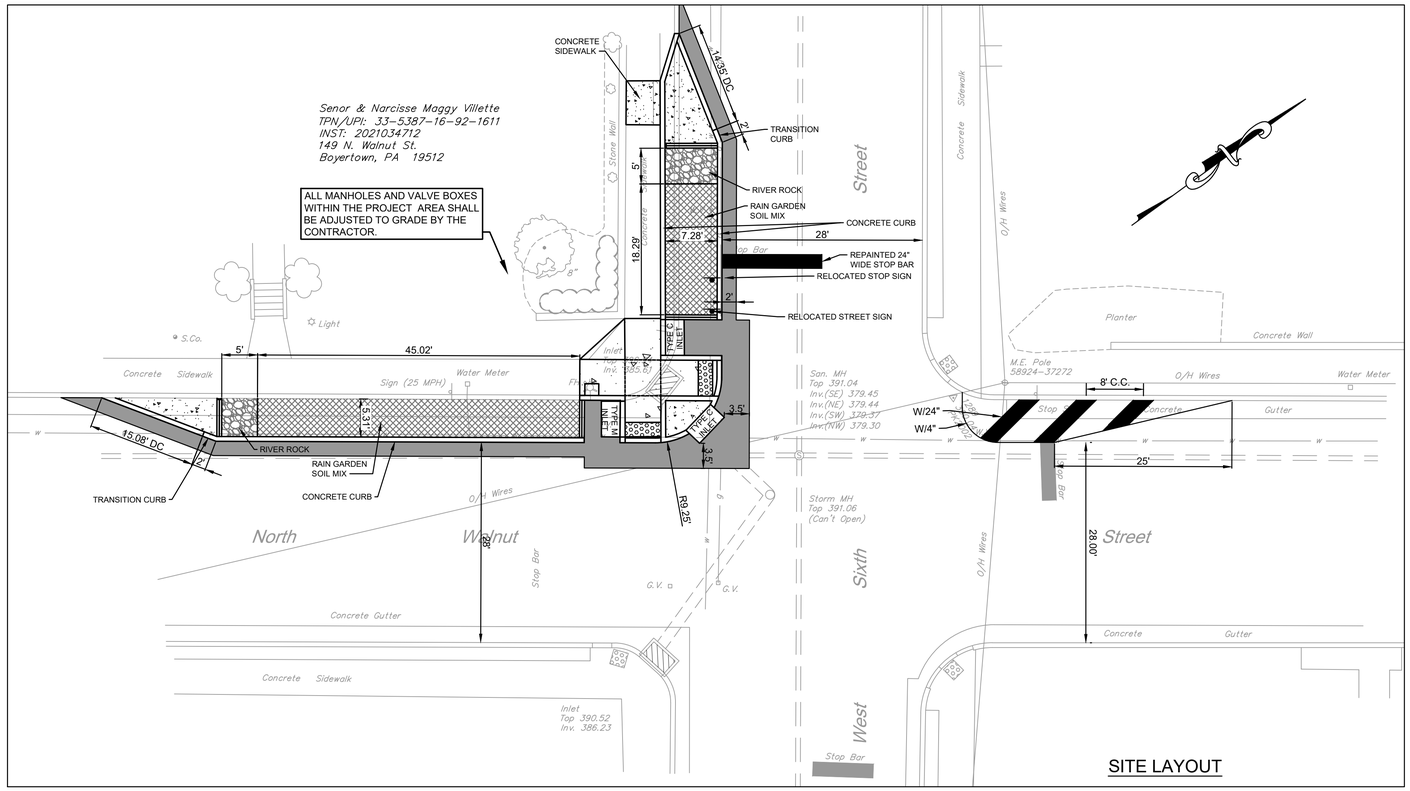
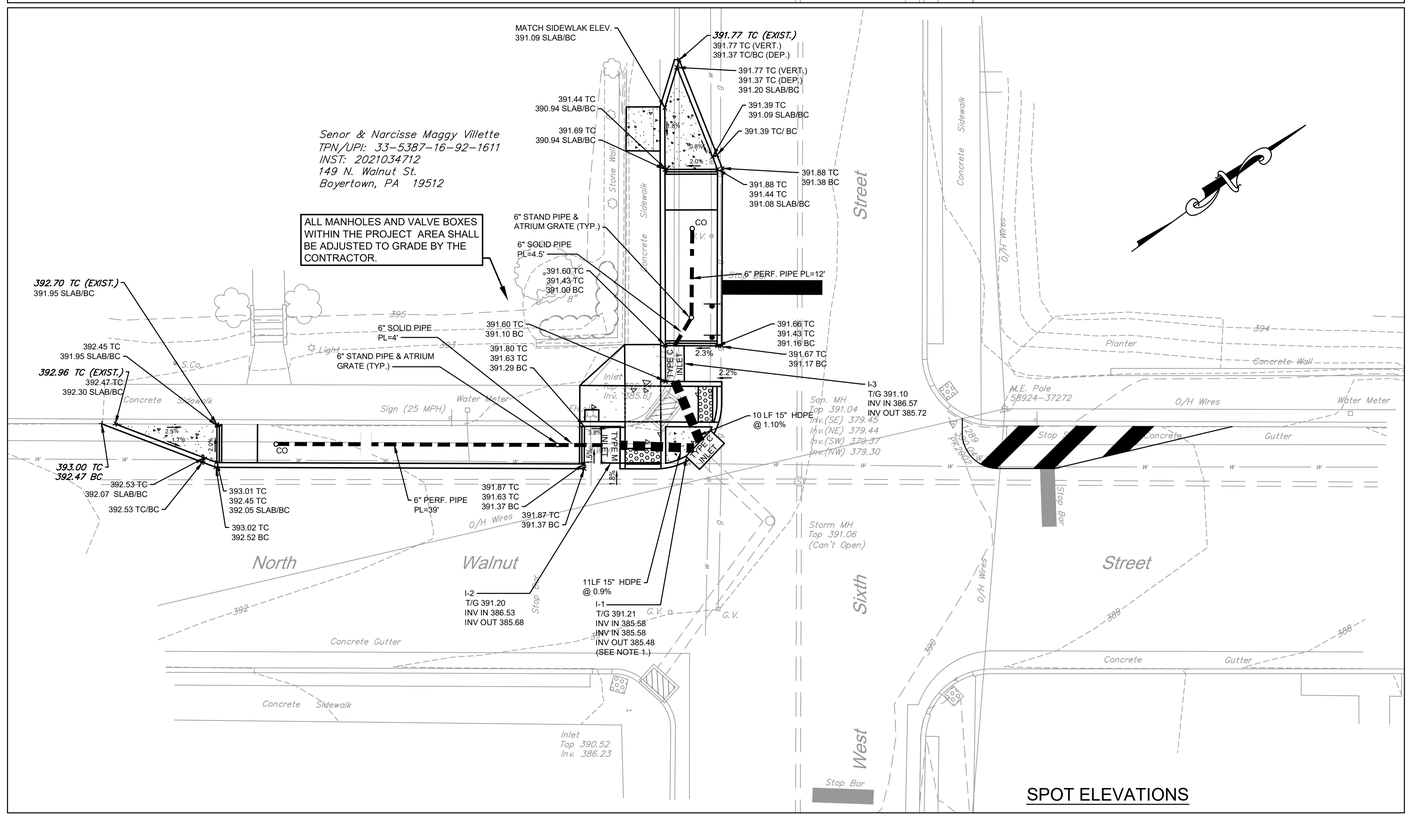
DATE	DIGITAL FILENAME
03/29/22	1051780024 C.1-02

WORK ORDER NUMBER: 105178.0024

DRAWING NUMBER: C.1-02



SITE LAYOUT



SPOT ELEVATIONS

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- GRASS AREAS
- CO STORM PIPE WITH CLEANOUT

NOTE:

1. INVERT OUT AT INLET I-1 IS APPROXIMATE, GRADE ADJUSTMENT RINGS MAY BE REQUIRED TO MATCH T/G TO ROAD.

GRAPHIC SCALE

10' 0' 10' 20'

Scale 1"=10'

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0	05/10/22	ISSUED FOR BIDDING	KKS	NS/KDM	KDM

RELEASED FOR: CONSTRUCTION

PROJECT MANAGER: KDM
BASE BY: HMH
DRAWN BY: JC
DATE: 03/29/22
N.B.
DESIGNED BY: JC
CHKD:

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BOROUGH OF BOYERTOWN
BERKS COUNTY, PENNSYLVANIA
RAIN GARDEN AND BUMP OUT PROJECT
N WALNUT AND W SIXTH STREET
SITE LAYOUT PLAN

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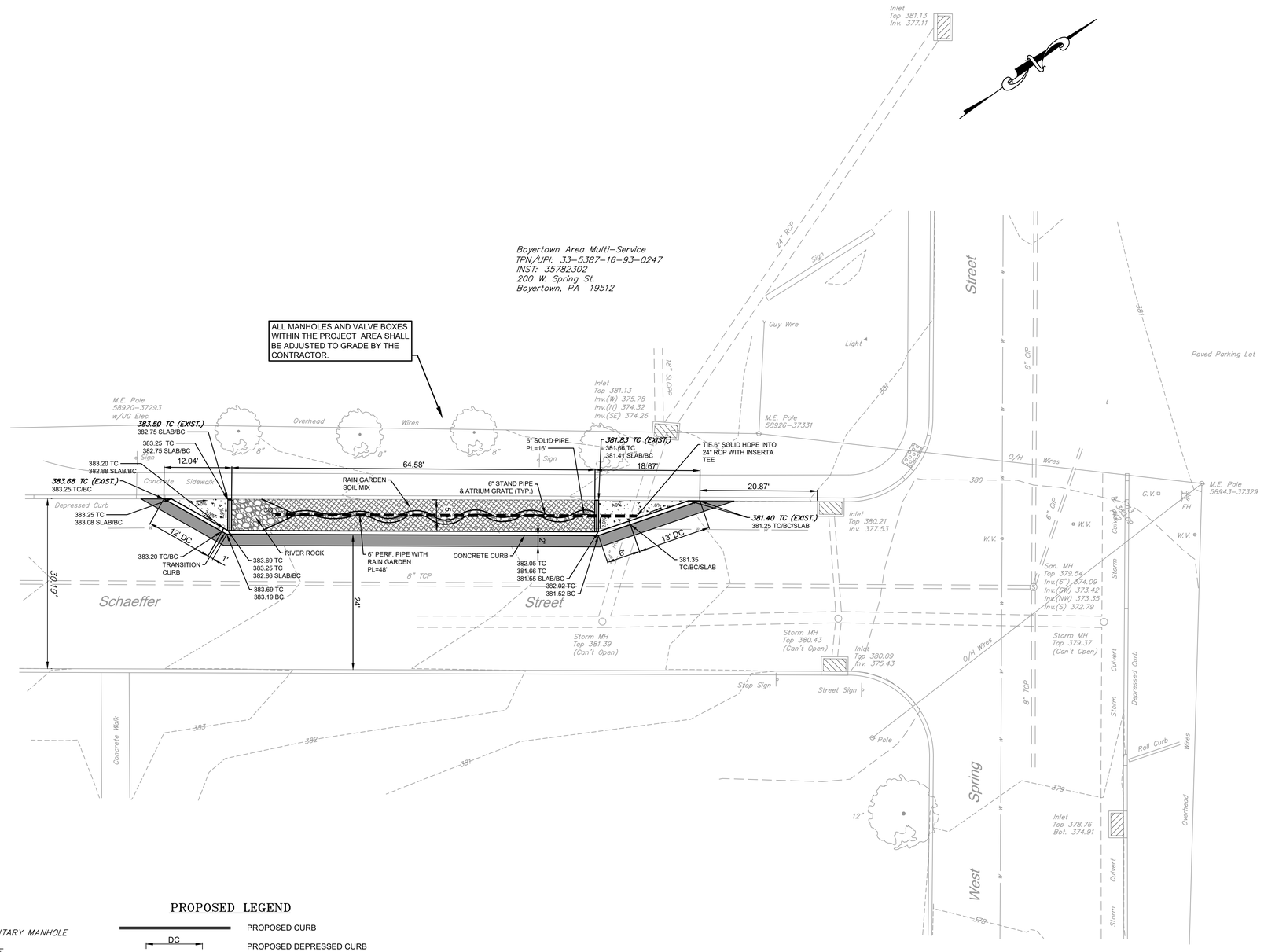
DATE	DIGITAL FILENAME
03/29/22	1051780024 C.1-03

WORK ORDER NUMBER: 105178.0024

DRAWING NUMBER: C.1-03



EXISTING LEGEND

- EXISTING SANITARY MANHOLE
- EXISTING TREE
- EXISTING SIGN
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- CO STORM PIPE WITH CLEANOUT

GRAPHIC SCALE

10' 0' 10' 20'

Scale 1"=10'

NO.	DATE	DESCRIPTION	MADE	CHKD	APVD
2	09/13/22	PA/AN REVISIONS 1	NS	KRM	NS
1	06/13/22	ADDENDUM 1	KKS	NS/JC	KRM
0	05/02/22	ISSUED FOR BIDDING	KKS	NS/KRM	KRM

RELEASED FOR:
CONSTRUCTION

PROJECT MANAGER: KRM
DATE: 03/29/22
BASE BY: HMM
N.B.:
DRAWN BY: JC
DESIGNED BY: JC
CHKD:

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL ENGINEER
NICHOLAS A. SZEREDAI
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BOROUGH OF BOYERTOWN

BERKS COUNTY, PENNSYLVANIA

RAIN GARDEN AND BUMP OUT PROJECT

SCHAEFFER AND W SPRING STREET

SITE LAYOUT AND SPOT ELEVATION PLAN

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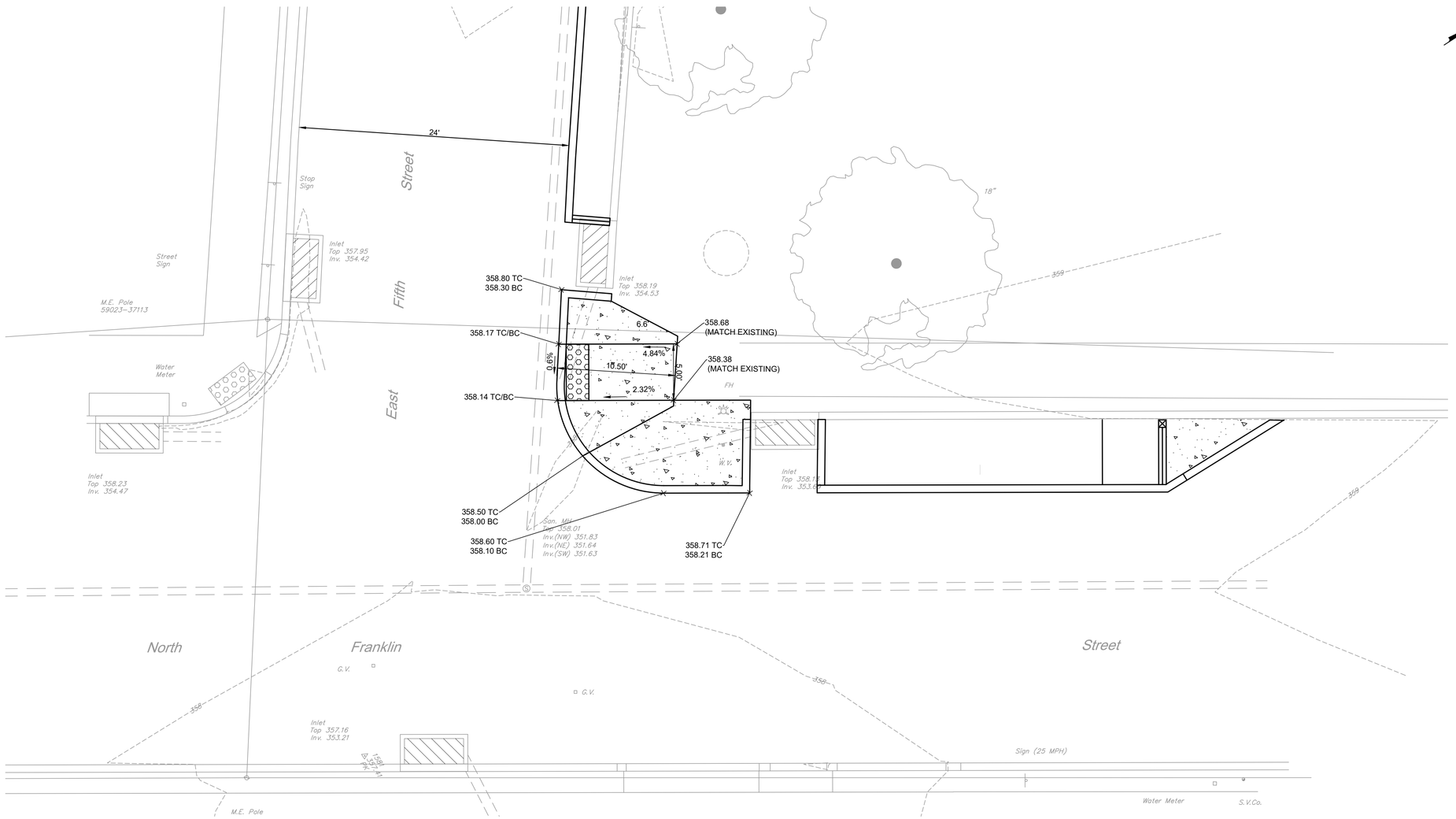
DATE	DIGITAL FILENAME
03/29/22	1051780024 C.1-04

WORK ORDER NUMBER: 105178.0024

DRAWING NUMBER: C.1-04



GRAPHIC SCALE

5' 0' 5' 10'

Scale 1"=5'

NO.	DATE	DESCRIPTION	MADE	CHKD	APVD
2	09/13/22	PLAN REVISIONS 1	NS	KSM	NS
1	06/13/22	ADDENDUM 1	KKS	NS/JC	KSM
0	05/02/22	ISSUED FOR BIDDING	KKS	NS/KSM	KSM

RELEASED FOR:
CONSTRUCTION

PROJECT MANAGER: KSM
BASE BY: HMM
DRAWN BY: JC
DATE: 03/29/22
N.B.:
DESIGNED BY: JC
CHKD:

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West Chester, PA 19380
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BOROUGH OF BOYERTOWN
BERKS COUNTY, PENNSYLVANIA
RAIN GARDEN AND BUMP OUT PROJECT
N. FRANKLIN AND E. FIFTH STREET
CURB RAMPS

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DATE	DIGITAL FILENAME
03/29/22	1051780024 C.1-10

WORK ORDER NUMBER: 105178.0024

DRAWING NUMBER: C.1-10

GRAPHIC SCALE

5' 0' 5' 10'

Scale 1"=5'

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RELEASED FOR:
CONSTRUCTION

PROJECT MANAGER: KDM
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DATE: 03/29/22
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CHKD:

COMMONWEALTH OF PENNSYLVANIA
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BOROUGH OF BOYERTOWN
BERKS COUNTY, PENNSYLVANIA
RAIN GARDEN AND BUMP OUT PROJECT
N. FRANKLIN AND SIXTH STREET
CURB RAMPS

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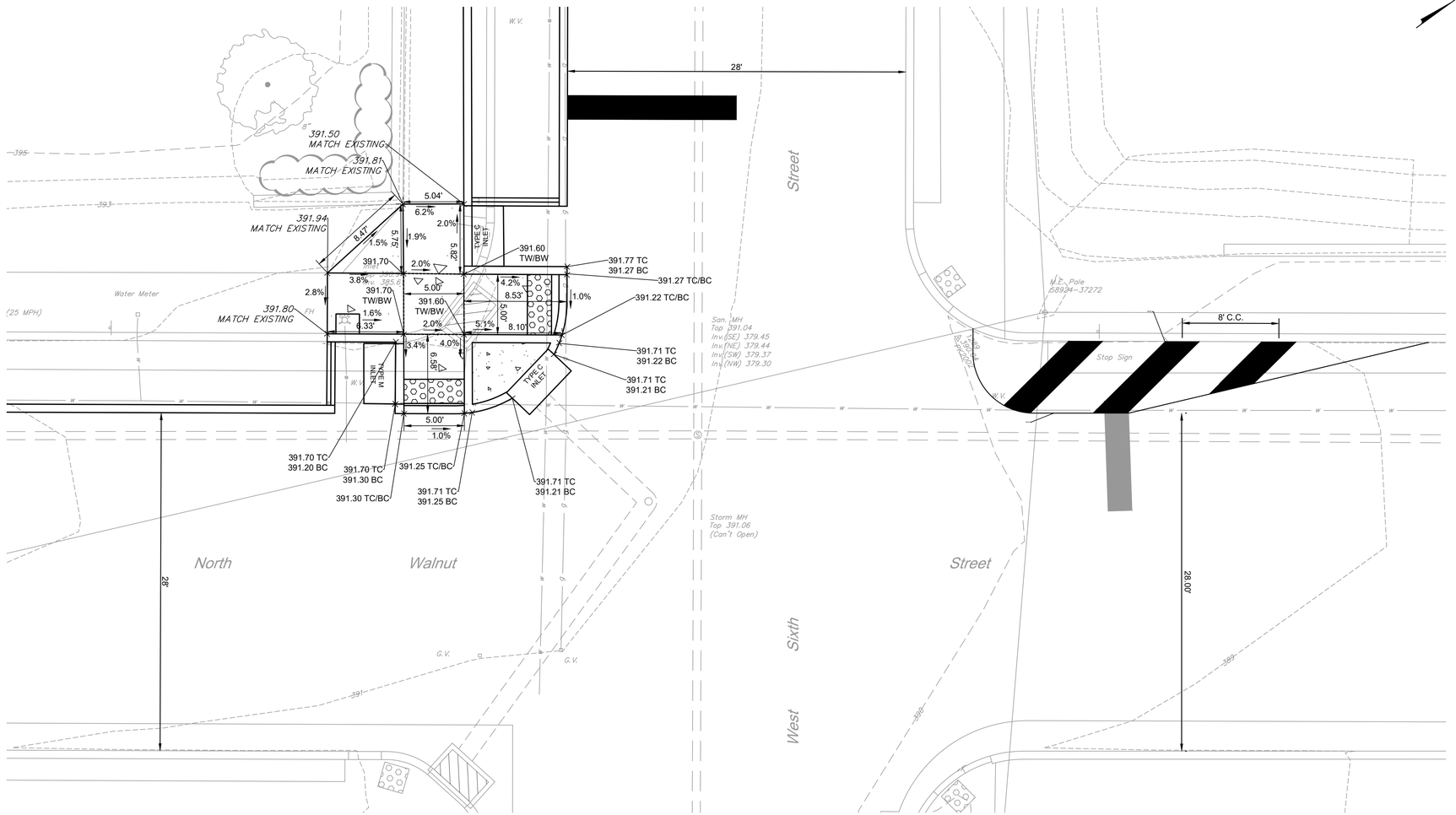
DATE	DIGITAL FILENAME
03/29/22	1051780024 C.1-11

WORK ORDER NUMBER: 105178.0024

DRAWING NUMBER: C.1-11



GRAPHIC SCALE

5' 0' 5' 10'

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NO.	DATE	DESCRIPTION	MADE	CHKD	APVD
2	09/13/22	PLAN REVISIONS 1	NS	KDM	NS
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BOROUGH OF BOYERTOWN

BERKS COUNTY, PENNSYLVANIA

RAIN GARDEN AND BUMP OUT PROJECT

N. WALNUT AND W. SIXTH STREET

CURB RAMPS

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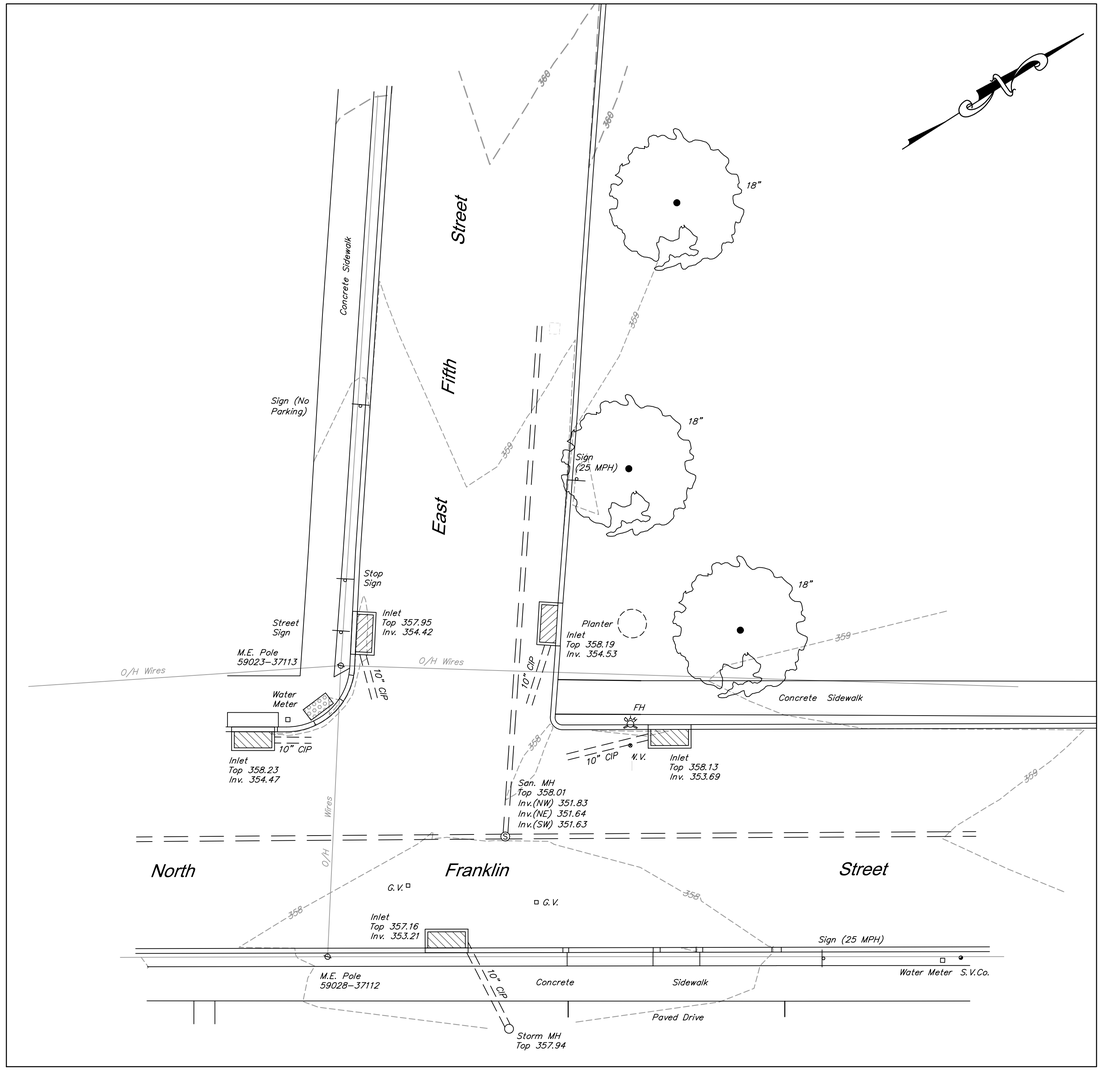
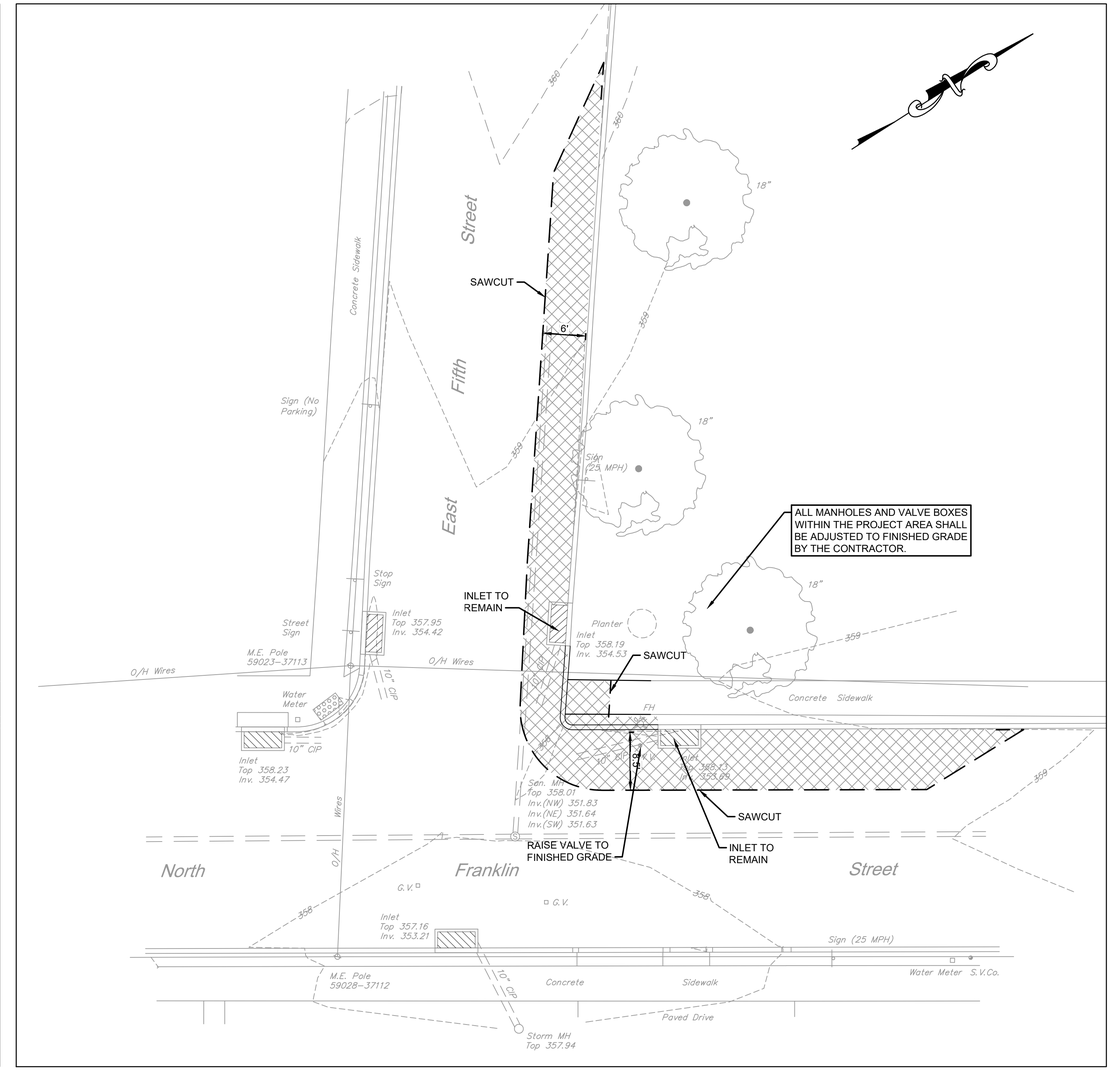
DATE	DIGITAL FILENAME
03/29/22	1051780024 C.1-12

WORK ORDER NUMBER: 105178.0024

DRAWING NUMBER: C.1-12



EXISTING CONDITIONS



DEMOLITION

EXISTING LEGEND

- EXISTING SANITARY MANHOLE
- EXISTING TREE
- EXISTING SIGN
- EXISTING FIRE HYDRANT
- EXISTING INLET
- G.V. EXISTING GAS VALVE
- W.V. EXISTING WATER VALVE
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- EXISTING RIGHT-OF-WAY
- EXISTING STORM SEWER
- EXISTING SANITARY SEWER
- O/H Wires EXISTING OVERHEAD UTILITY LINES
- EXISTING CURB

EXISTING PAVING AND CONCRETE TO BE REMOVED

FULL DEPTH SAWCUT

GRAPHIC SCALE

10' 0' 10' 20'

Scale 1"=10'

NO.	DATE	DESCRIPTION	MADE	CHKD	APVD
2	09/13/22	PLAN REVISIONS 1	NS	KKM	NS
1	06/13/22	ADDENDUM 1	KKS	NS/JC	KKM
0	05/02/22	ISSUED FOR BIDDING	KKS	NS/KDM	KDM

RELEASED FOR:
CONSTRUCTION

PROJECT MANAGER: KDM DATE: 03/29/22
BASE BY: HMM N.B.:
DRAWN BY: JC DESIGNED BY: JC CHKD:

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
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PE085674

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3029 Corporate Parkway
Allentown, PA 18104
610.821.2000
WEST CHESTER
701 East Evans Street
West Chester, PA 19380
610.821.2000

BOROUGH OF BOYERTOWN
BERKS COUNTY, PENNSYLVANIA
RAIN GARDEN AND BUMP OUT PROJECT
N FRANKLIN AND E FIFTH STREET
EXISTING CONDITIONS AND DEMOLITION PLAN

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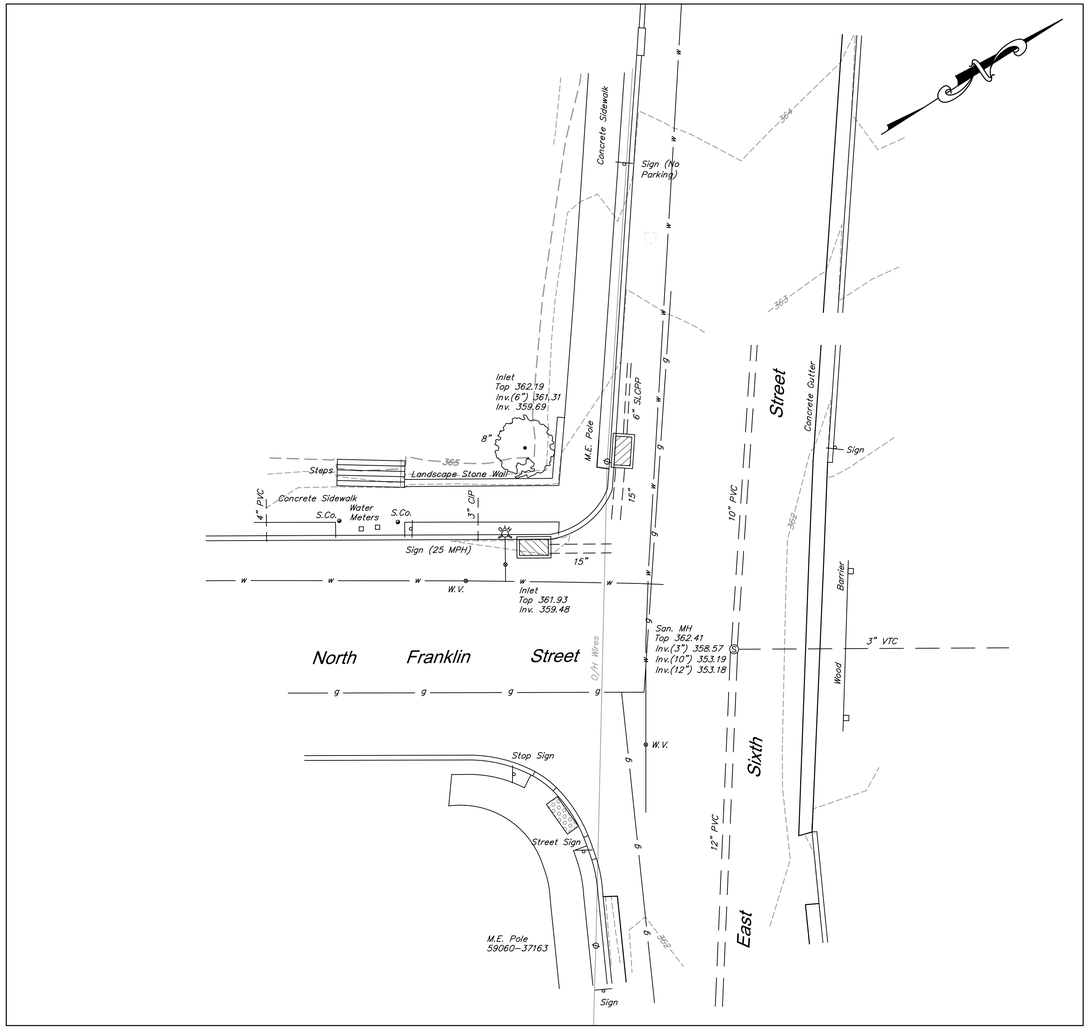
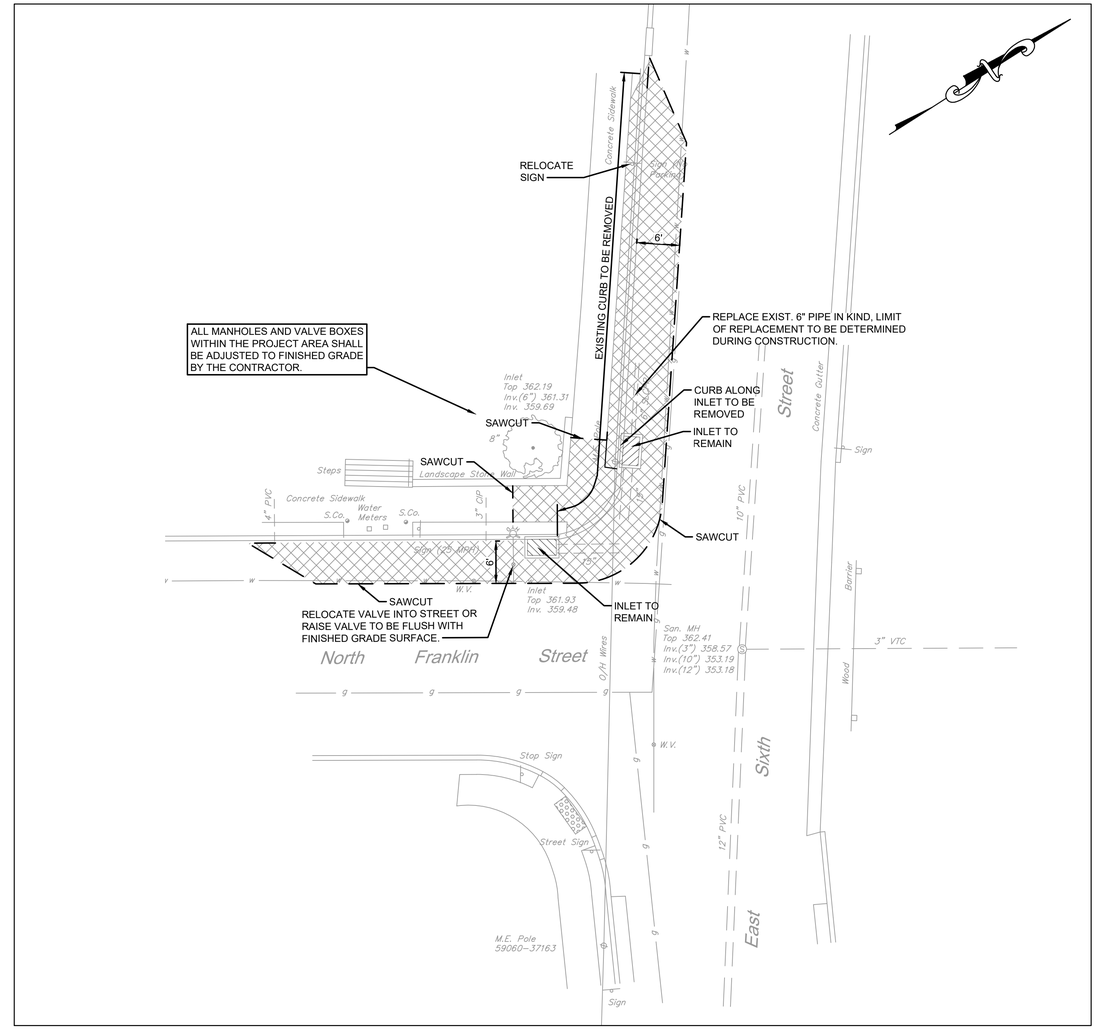
DATE	DIGITAL FILENAME
03/29/22	1051780024 C.1-50

WORK ORDER NUMBER: 105178.0024

DRAWING NUMBER: C.1-50



EXISTING CONDITIONS



DEMOLITION

EXISTING LEGEND

- EXISTING SANITARY MANHOLE
- EXISTING TREE
- EXISTING SIGN
- EXISTING FIRE HYDRANT
- EXISTING INLET
- G.V. EXISTING GAS VALVE
- W.V. EXISTING WATER VALVE
- W.C.S. EXISTING WATER STRUCTURE
- EXISTING UTILITY POLE
- EXISTING MAILBOX
- g EXISTING GASLINE
- w EXISTING WATERLINE
- EXISTING RIGHT-OF-WAY
- EXISTING STORM SEWER
- EXISTING SANITARY SEWER
- O/H Wires EXISTING OVERHEAD UTILITY LINES
- EXISTING CURB

EXISTING PAVING AND CONCRETE TO BE REMOVED

FULL DEPTH SAWCUT

GRAPHIC SCALE

10' 0' 10' 20'

Scale 1"=10'

NO.	DATE	DESCRIPTION	MADE	CHKD	APVD
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1	06/13/22	ADDENDUM 1	KKS	NS/JC	KDM
0	05/02/22	ISSUED FOR BIDDING	KKS	NS/KDM	KDM

RELEASED FOR:
CONSTRUCTION

PROJECT MANAGER: KDM
BASE BY: HMM
DRAWN BY: JC
DATE: 03/29/22
N.B.:
DESIGNED BY: JC
CHKD:

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BOROUGH OF BOYERTOWN

BERKS COUNTY, PENNSYLVANIA

RAIN GARDEN AND BUMP OUT PROJECT

N FRANKLIN AND SIXTH STREET

EXISTING CONDITIONS AND DEMOLITION PLAN

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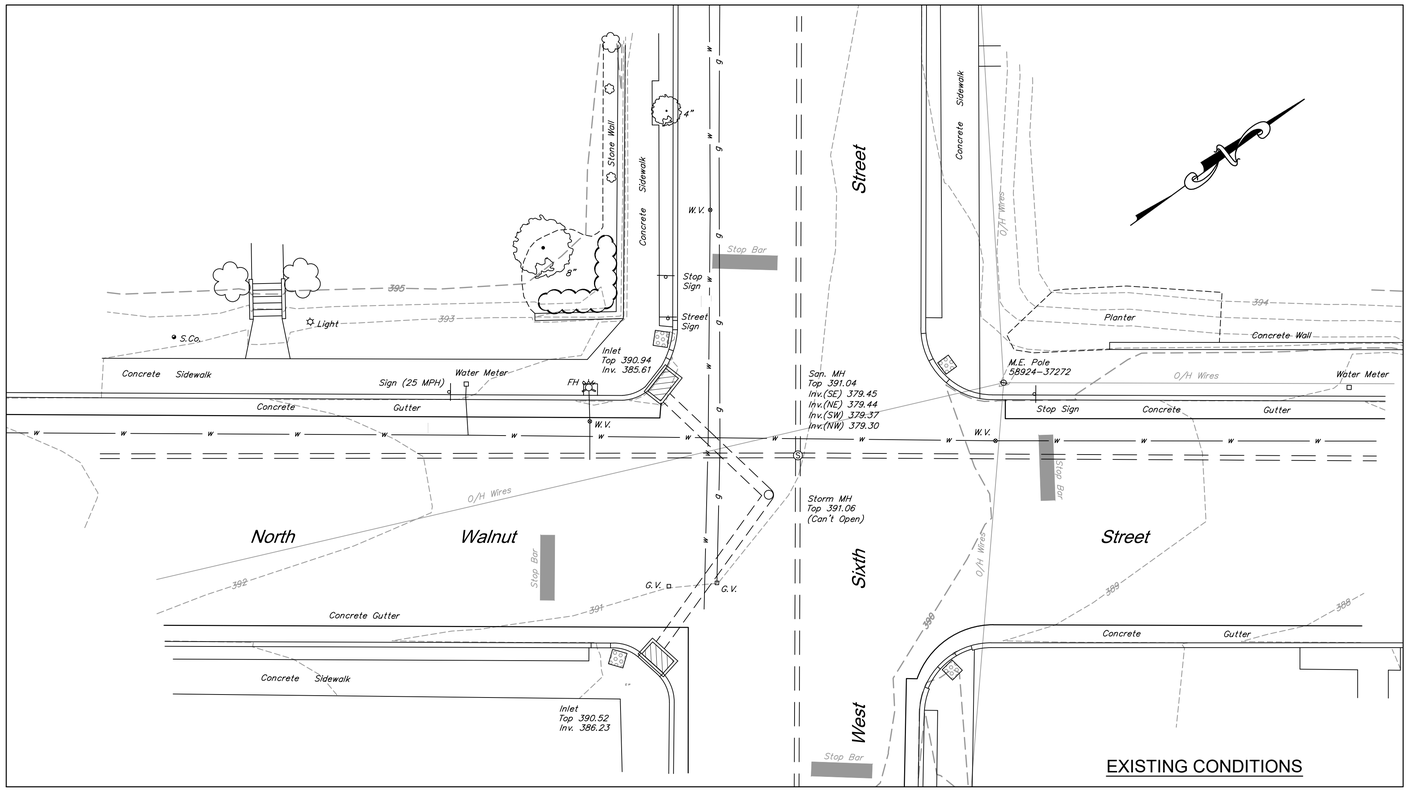
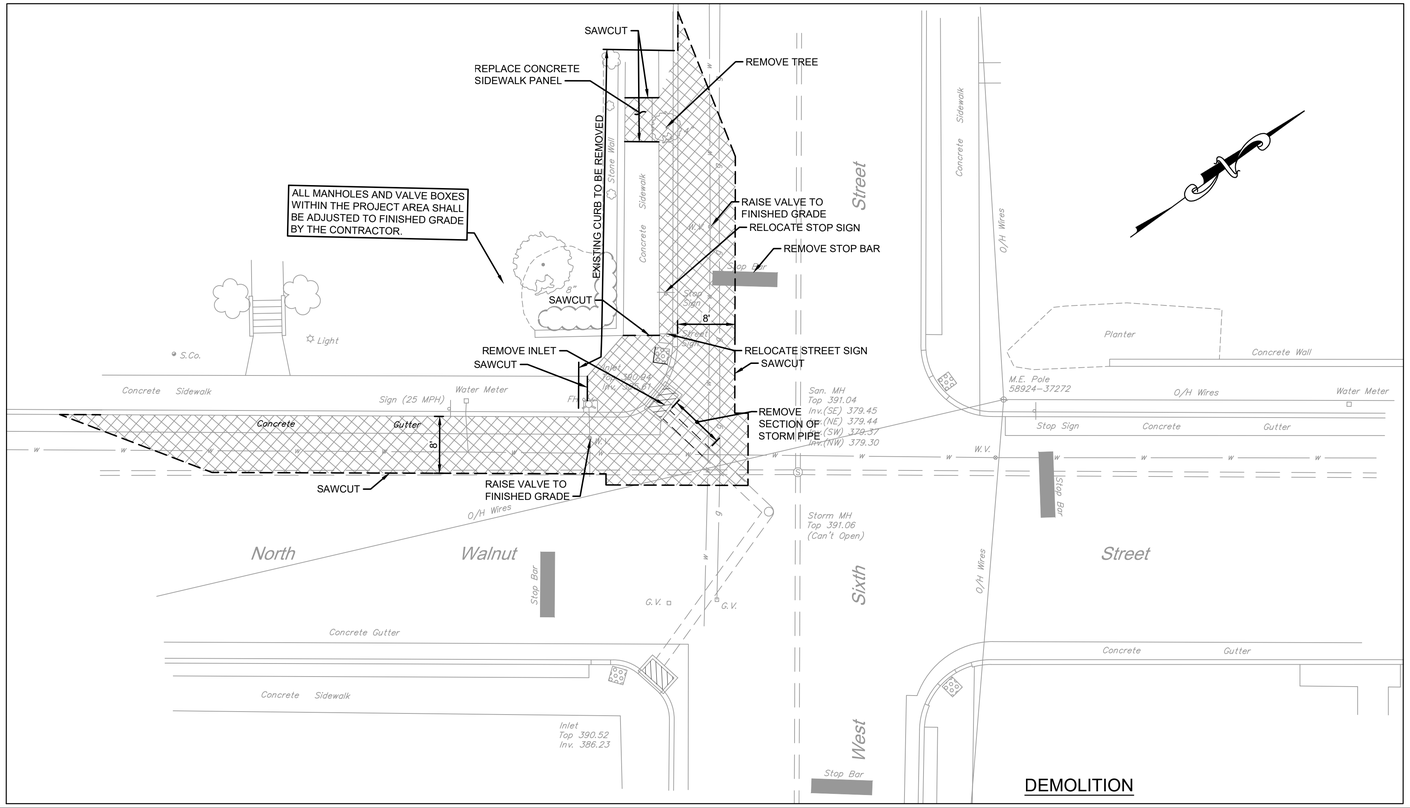
DATE	DIGITAL FILENAME
03/29/22	1051780024 C.1-51

WORK ORDER NUMBER: 105178.0024

DRAWING NUMBER: C.1-51



EXISTING CONDITIONS



DEMOLITION

EXISTING LEGEND

- EXISTING SANITARY MANHOLE
- EXISTING TREE
- EXISTING SIGN
- EXISTING FIRE HYDRANT
- EXISTING INLET
- G.V. — EXISTING GAS VALVE
- W.V. — EXISTING WATER VALVE
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- EXISTING UTILITY POLE
- EXISTING MAILBOX
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- EXISTING RIGHT-OF-WAY
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- O/H Wires — EXISTING OVERHEAD UTILITY LINES
- EXISTING CURB
- EXISTING PAVING AND CONCRETE TO BE REMOVED
- FULL DEPTH SAWCUT

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10' 0' 10' 20'

Scale 1"=10'

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0	05/02/22	ISSUED FOR BIDDING	KKS	NS/KDM	KDM

RELEASED FOR:
CONSTRUCTION

PROJECT MANAGER: KDM
BASE BY: HMM
DRAWN BY: JC
DESIGNED BY: JC
DATE: 03/29/22
N.B.:
CHKD:

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
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BOROUGH OF BOYERTOWN
BERKS COUNTY, PENNSYLVANIA
RAIN GARDEN AND BUMP OUT PROJECT
N WALNUT AND W SIXTH STREET
EXISTING CONDITIONS AND DEMOLITION PLAN

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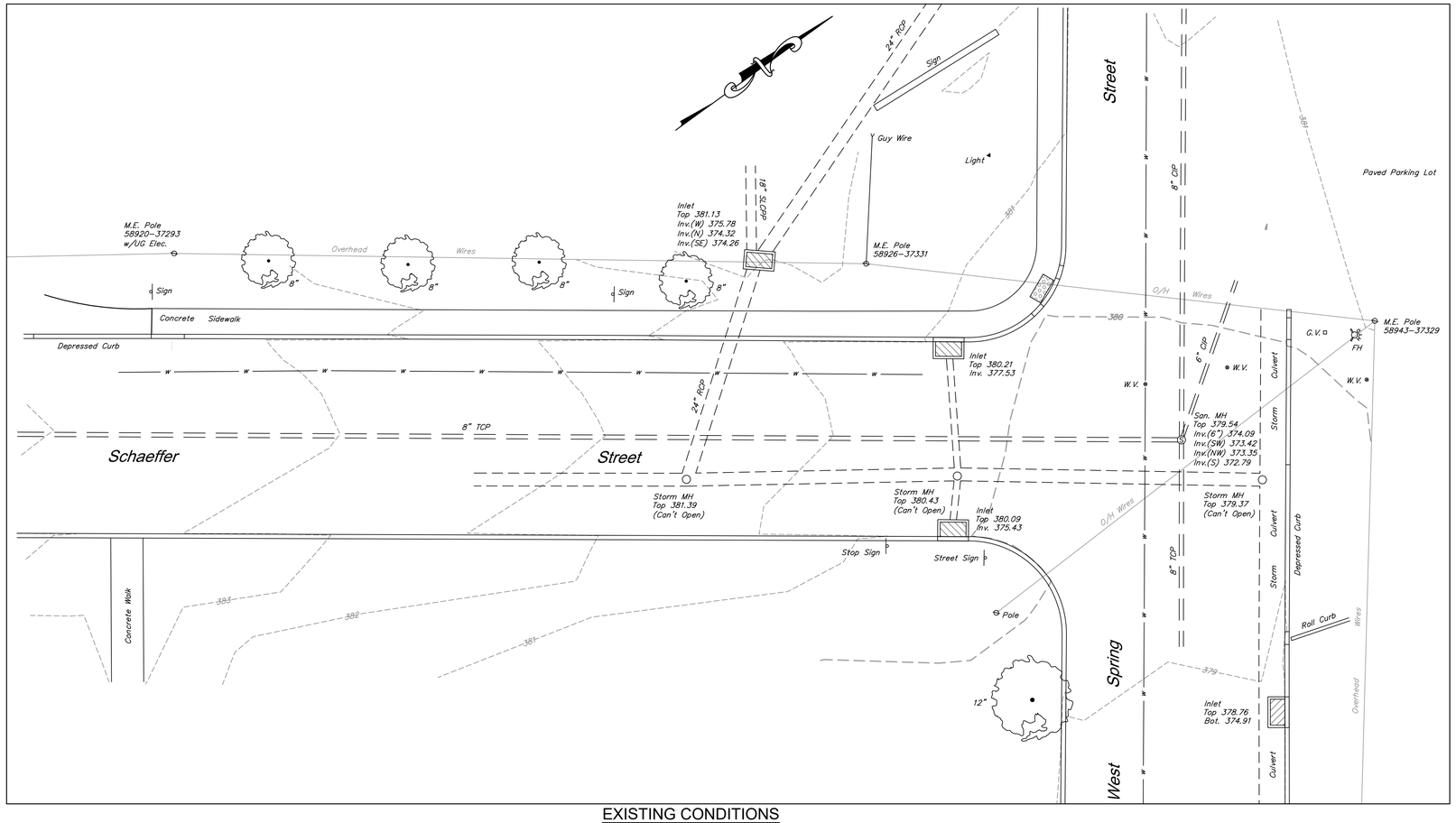
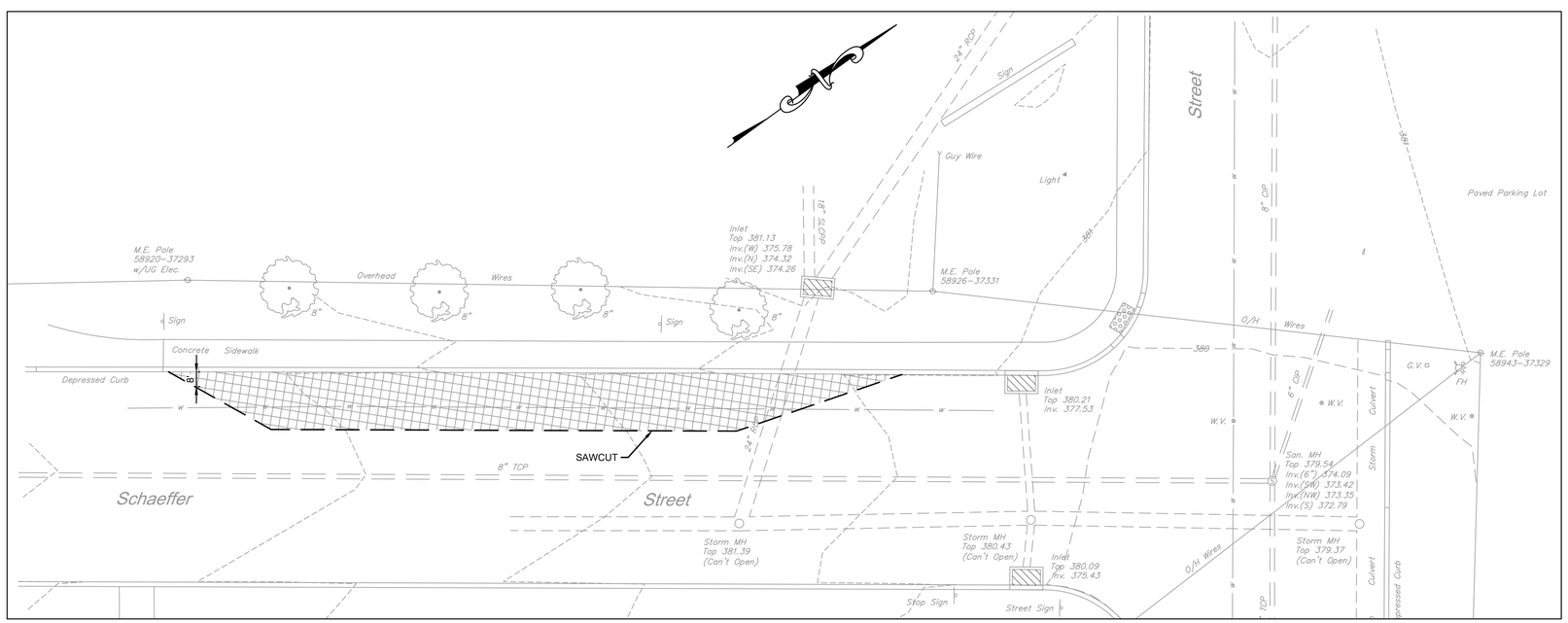
DATE	DIGITAL FILENAME
03/29/22	1051780024 C.1-52

WORK ORDER NUMBER: 105178.0024

DRAWING NUMBER: C.1-52



EXISTING CONDITIONS



DEMOLITION

EXISTING LEGEND

- EXISTING SANITARY MANHOLE
- EXISTING TREE
- EXISTING SIGN
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- EXISTING SANITARY SEWER
- O/H Wires EXISTING OVERHEAD UTILITY LINES
- EXISTING CURB
- EXISTING PAVING AND CONCRETE TO BE REMOVED
- FULL DEPTH SAWCUT

GRAPHIC SCALE

10' 0' 10' 20'

Scale 1"=10'

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RELEASED FOR:
CONSTRUCTION

PROJECT MANAGER: KDM
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DATE: 03/29/22
N.B.:
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CHKD:

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BOROUGH OF BOYERTOWN
BERKS COUNTY, PENNSYLVANIA
RAIN GARDEN AND BUMP OUT PROJECT
SCHAEFFER AND W SPRING STREET
EXISTING CONDITIONS AND DEMOLITION PLAN

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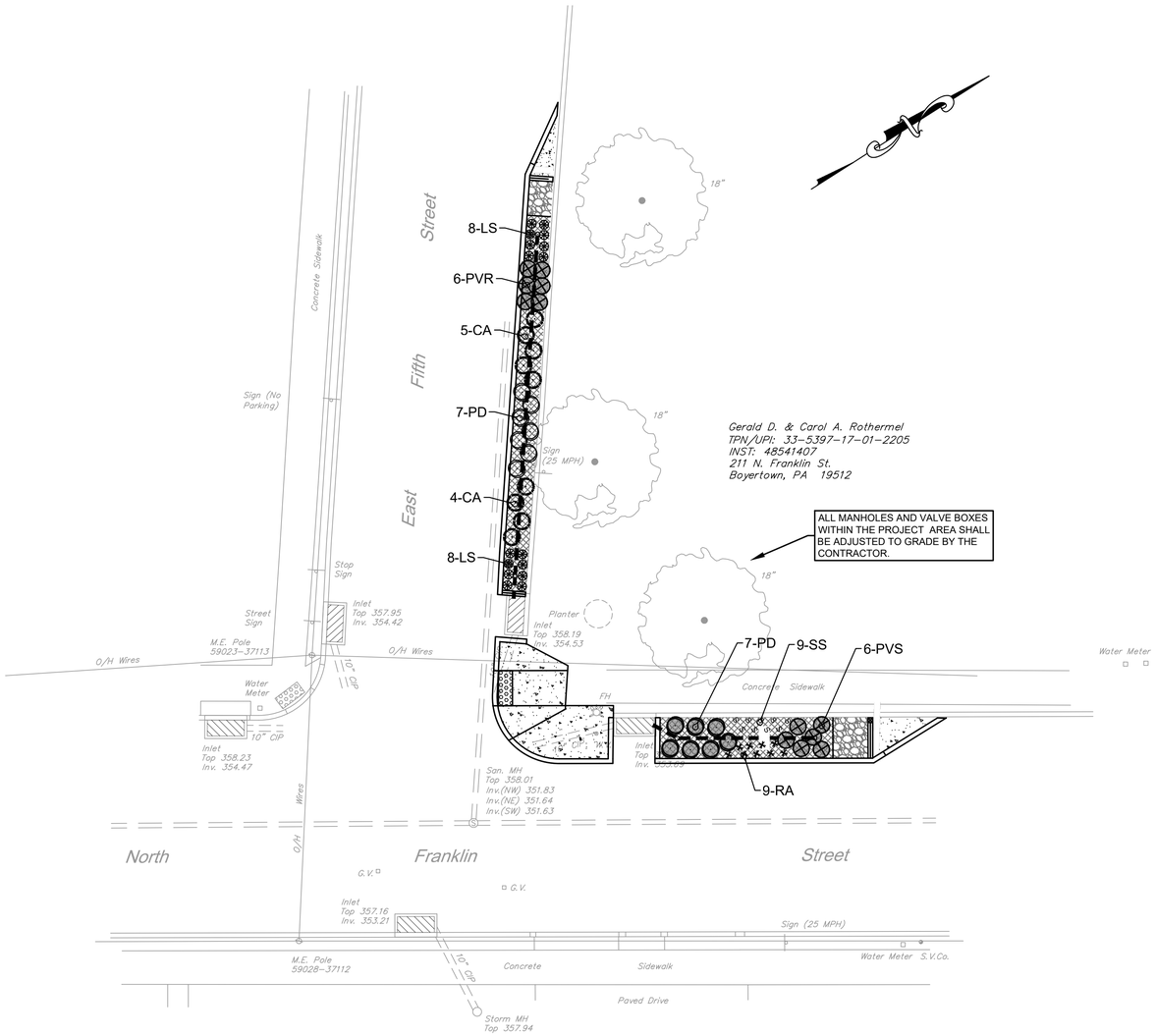
DATE	DIGITAL FILENAME
03/29/22	1051780024 C.1-53

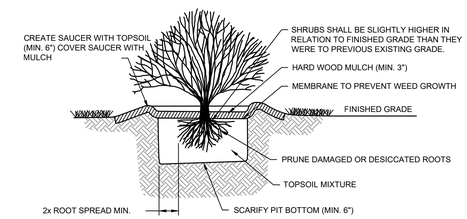
WORK ORDER NUMBER: 105178.0024

DRAWING NUMBER: C.1-53



TOTAL PLANT SCHEDULE

SYMBOL	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	REMARKS
CA	37	Clethra alnifolia	SUMMERSWEET	2'	POT	
LS	76	Liriope spicata	LILYTURF	8"	POT	
PD	48	Penstemon digitalis	FOXGLOVE - BEARDTONGUE	2'	POT	
PVR	29	Panicum virgatum 'Rehbraun'	REHBRAUN SWITCHGRASS	2'	POT	
PVS	20	Panicum virgatum 'Shenandoah'	SHENANDOAH SWITCHGRASS	2'	POT	
RA	25	Rhus aromatica 'Gro-low'	RHUS AROMATIC 'GRO-LOW'	1'	POT	
SS	50	Solidago sphacelata 'Golden Fleece'	AUTUMN GOLDENROD	8"	POT	



NOTES:

1. MIN. ROOT SPREAD TO BE IN ACCORDANCE WITH "AMERICAN STANDARDS FOR NURSERY STOCK."
2. PRUNE ALL DAMAGED, DISEASED OR WEAK LIMBS & ROOTS.
3. CLEANLY PRUNE ALL DAMAGED ROOT ENDINGS.
4. DO NOT ALLOW ROOTS TO DRY OUT DURING INSTALLATION PROCESS.
5. SOAK ROOTS IN WATER OVERNIGHT BEFORE PLANTING.

SHRUB PLANTING DETAIL

NO SCALE

EXISTING LEGEND

- EXISTING SANITARY MANHOLE
- EXISTING TREE
- EXISTING SIGN
- EXISTING FIRE HYDRANT
- EXISTING INLET
- G.V. EXISTING GAS VALVE
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- EXISTING SANITARY SEWER
- O/H Wires EXISTING OVERHEAD UTILITY LINES
- EXISTING CURB

PROPOSED LEGEND

- PROPOSED CURB
- DC PROPOSED DEPRESSED CURB
- DWS
- PROPOSED FULL DEPTH ASPHALT PAVING RECONSTRUCTION
- PROPOSED CONCRETE OR CONCRETE SIDEWALK
- RIVER ROCK
- RAIN GARDEN MIX
- GRASS AREAS
- CO STORM PIPE WITH CLEANOUT
- S LANDSCAPE PLANTINGS

PLANT SCHEDULE (THIS DRAWING ONLY)

SYMBOL	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	REMARKS
CA	9	Clethra alnifolia	SUMMERSWEET	2'	POT	
LS	16	Liriope spicata	LILYTURF	8"	POT	
PD	14	Penstemon digitalis	FOXGLOVE - BEARDTONGUE	2'	POT	
PVR	6	Panicum virgatum 'Rehbraun'	REHBRAUN SWITCHGRASS	2'	POT	
PVS	6	Panicum virgatum 'Shenandoah'	SHENANDOAH SWITCHGRASS	2'	POT	
RA	9	Rhus aromatica 'Gro-low'	RHUS AROMATIC 'GRO-LOW'	1'	POT	
SS	9	Solidago sphacelata 'Golden Fleece'	AUTUMN GOLDENROD	8"	POT	

GRAPHIC SCALE

10' 0' 10' 20'

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0	03/01/22	ISSUED FOR BIDDING	KKS	NS/KDM	KDM

RELEASED FOR: CONSTRUCTION

PROJECT MANAGER: KDM DATE: 03/25/22
BASE BY: HMM N.B. -
DRAWN BY: KKS DESIGNED BY: STM CHKD: STM

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER NICHOLAS A. SZEREDAI PE085674

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BOROUGH OF BOYERTOWN
BERKS COUNTY, PENNSYLVANIA
RAIN GARDEN AND BUMP OUT PROJECT
N FRANKLIN AND E FIFTH STREETS
LANDSCAPE PLAN

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DATE	DIGITAL FILENAME
03/29/22	1051780024 C.5-01

WORK ORDER NUMBER: 105178.0024

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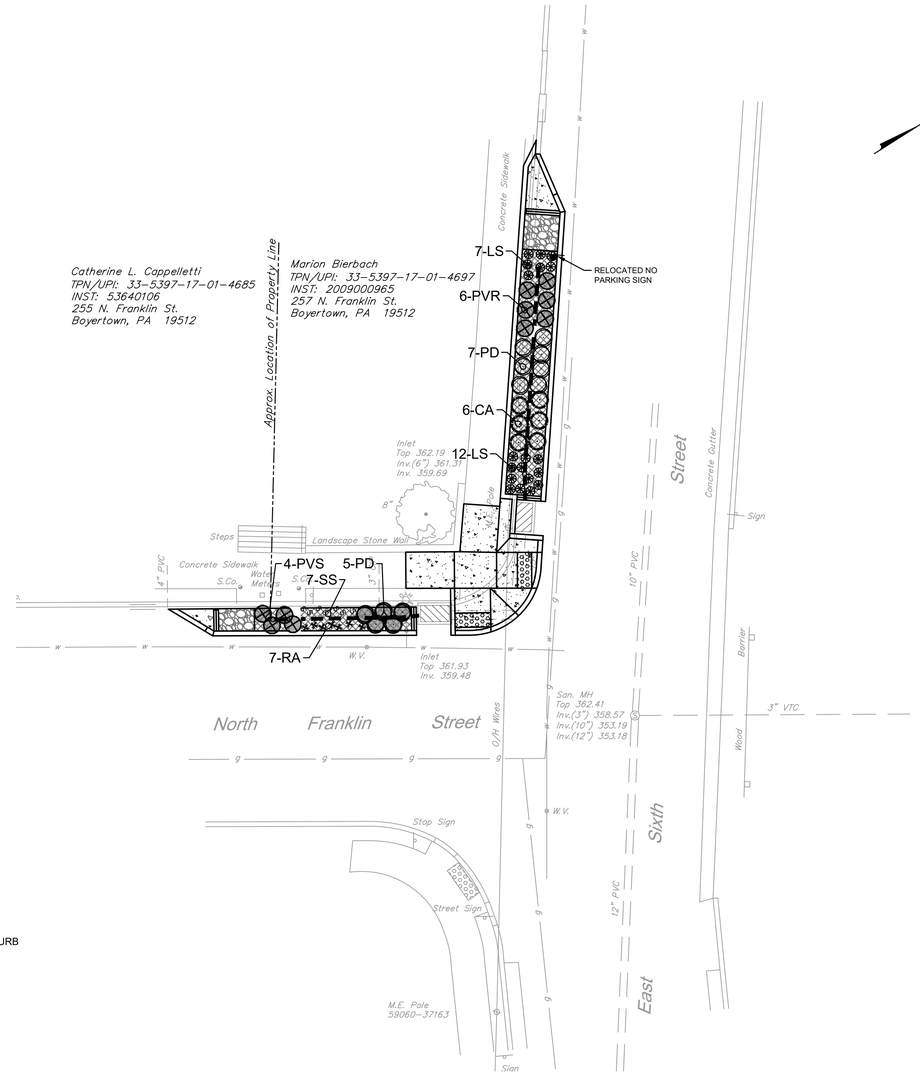

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PROPOSED LEGEND

- PROPOSED CURB
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- PROPOSED CONCRETE OR CONCRETE SIDEWALK
- RIVER ROCK
- RAIN GARDEN MIX
- GRASS AREAS
- CO STORM PIPE WITH CLEANOUT
- S LANDSCAPE PLANTINGS

PLANT SCHEDULE (THIS DRAWING ONLY)

SYMBOL	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	REMARKS
CA	6	Clethra alnifolia	SUMMERSWEET	2'	POT	
LS	19	Liriope spicata	LILYTURF	8"	POT	
PD	12	Penstemon digitalis	FOXGLOVE - BEARDTONGUE	2'	POT	
PVR	6	Panicum virgatum 'Rehbraun'	REHBRAUN SWITCHGRASS	2'	POT	
PVS	4	Panicum virgatum 'Shenandoah'	SHENANDOAH SWITCHGRASS	2'	POT	
RA	7	Rhus aromatica 'Gro-low'	RHUS AROMATIC 'GRO-LOW'	1'	POT	
SS	7	Solidago sphacelata 'Golden Fleece'	AUTUMN GOLDENROD	8"	POT	

NOTE:
REFER TO C.5-01 FOR TOTAL PLANT SCHEDULE AND PLANTING DETAIL.

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BOROUGH OF BOYERTOWN
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RAIN GARDEN AND BUMP OUT PROJECT
N FRANKLIN AND SIXTH STREET
LANDSCAPE PLAN

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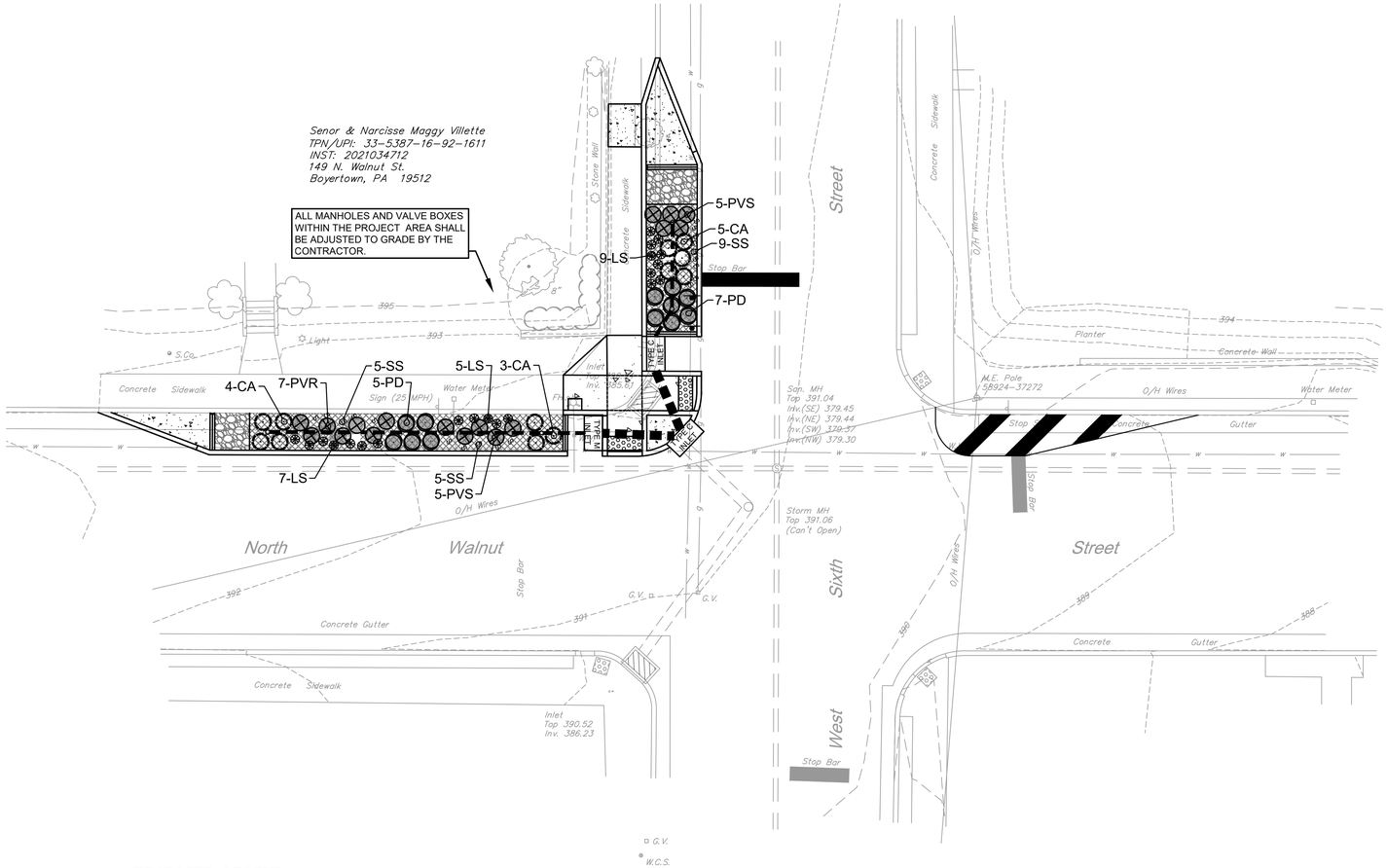
DATE	DIGITAL FILENAME
03/29/22	105178.0024 C.5-02

WORK ORDER NUMBER: 105178.0024

DRAWING NUMBER: C.5-02



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PLANT SCHEDULE (THIS DRAWING ONLY)

SYMBOL	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	REMARKS
CA	12	Clethra alnifolia	SUMMERSWEET	2'	POT	
LS	21	Liriope spicata	LILYTURF	8"	POT	
PD	12	Penstemon digitalis	FOXGLOVE - BEARDTONGUE	2'	POT	
PVR	7	Panicum virgatum 'Rehbraun'	REHBRAUN SWITCHGRASS	2'	POT	
PVS	10	Panicum virgatum 'Shenandoah'	SHENANDOAH SWITCHGRASS	2'	POT	
RA	0	Rhus aromatica 'Gro-low'	RHUS AROMATIC 'GRO-LOW'	1'	POT	
SS	19	Solidago sphacelata 'Golden Fleece'	AUTUMN GOLDENROD	8"	POT	

NOTE:
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10' 0' 10' 20'
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RAIN GARDEN AND BUMP OUT PROJECT
N WALNUT AND W SIXTH STREETS
LANDSCAPE PLAN

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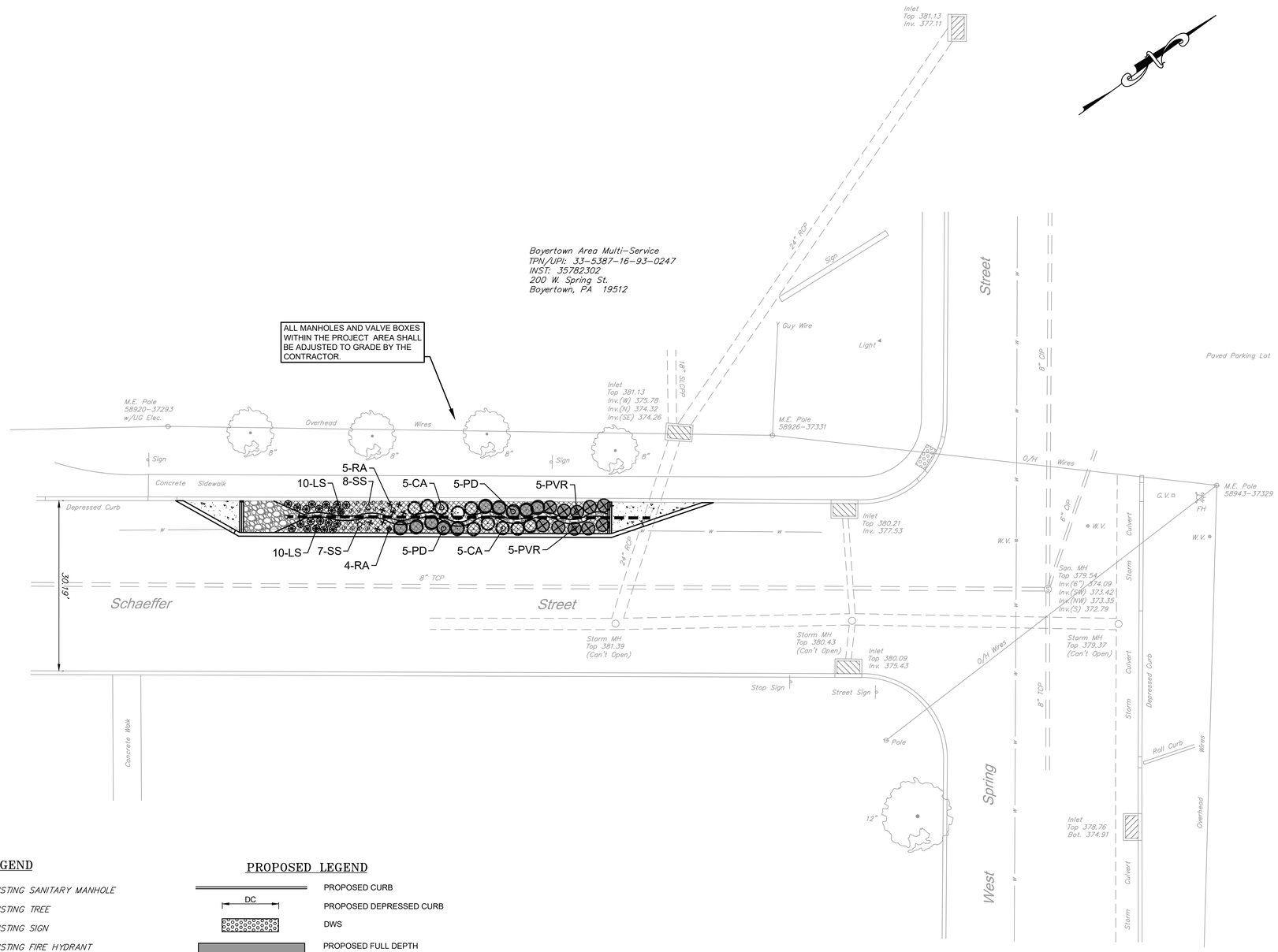

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- G.V. EXISTING GAS VALVE
- W.V. EXISTING WATER VALVE
- W.C.S. EXISTING WATER STRUCTURE
- EXISTING UTILITY POLE
- EXISTING MAILBOX
- g EXISTING GASLINE
- w EXISTING WATERLINE
- EXISTING RIGHT-OF-WAY
- EXISTING STORM SEWER
- EXISTING SANITARY SEWER
- O/H Wires EXISTING OVERHEAD UTILITY LINES
- EXISTING CURB

PROPOSED LEGEND

- PROPOSED CURB
- DC PROPOSED DEPRESSED CURB
- DWS
- PROPOSED FULL DEPTH ASPHALT PAVING RECONSTRUCTION
- PROPOSED CONCRETE OR CONCRETE SIDEWALK
- RIVER ROCK
- RAIN GARDEN MIX
- GRASS AREAS
- CO STORM PIPE WITH CLEANOUT
- S LANDSCAPE PLANTINGS

PLANT SCHEDULE (THIS DRAWING ONLY)						
SYMBOL	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	REMARKS
CA	10	Clethra alnifolia	SUMMERSWEET	2'	POT	
LS	20	Liriope spicata	LILYTURF	8"	POT	
PD	10	Penstemon digitalis	FOXGLOVE - BEARDTONGUE	2'	POT	
PVR	10	Panicum virgatum 'Rehbraun'	REHBRAUN SWITCHGRASS	2'	POT	
PVS	0	Panicum virgatum 'Shenandoah'	SHENANDOAH SWITCHGRASS	2'	POT	
RA	9	Rhus aromatica 'Gro-low'	RHUS AROMATIC 'GRO-LOW'	1'	POT	
SS	15	Solidago sphacelata 'Golden Fleece'	AUTUMN GOLDENROD	8"	POT	

NOTE:
REFER TO C.5-01 FOR TOTAL PLANT SCHEDULE AND PLANTING DETAIL.

GRAPHIC SCALE
10' 0' 10' 20'
Scale 1"=10'

NO.	DATE	DESCRIPTION	MADE	CHKD	APVD
2	09/13/22	PLAN REVISIONS 1	NS	KRM	NS
1	06/13/22	ADDENDUM 1	KKS	NS/JC	KDM
0	05/02/22	ISSUED FOR BIDDING	KKS	NS/KDM	KDM

RELEASED FOR:
CONSTRUCTION

PROJECT MANAGER: KDM
BASE BY: HMM
DRAWN BY: KKS
DATE: 03/25/22
N.B. -
DESIGNED BY: STM
CHKD: STM

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BOROUGH OF BOYERTOWN
BERKS COUNTY, PENNSYLVANIA
RAIN GARDEN AND BUMP OUT PROJECT
SCHAEFFER AND W SPRING STREETS
LANDSCAPE PLAN

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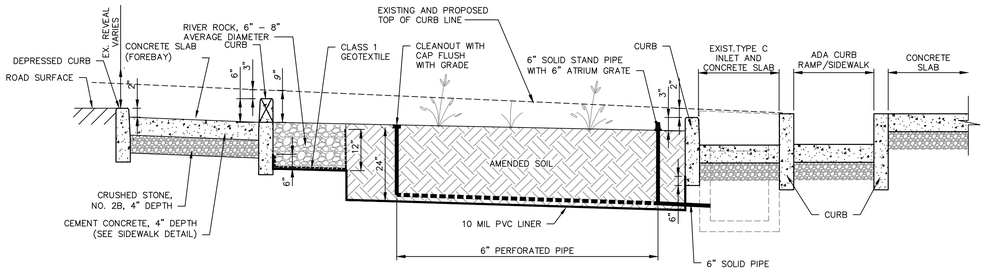
DATE	DIGITAL FILENAME
03/29/22	1051780024 C.5-04

WORK ORDER NUMBER: 105178.0024

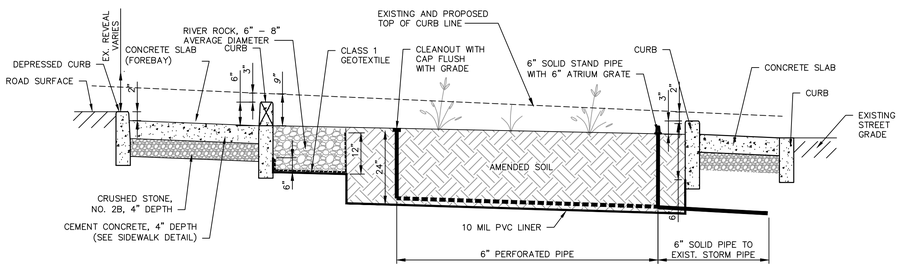
DRAWING NUMBER: C.5-04



NOTES:
1. PLANTINGS PER SHEETS C.5–01, C.5–02 AND C.5–03.
2. AMENDED SOIL TO BE 2 PARTS TOPSOIL, 1 PART COMPOST, BLENDED.

RAIN GARDEN PROFILE (TYP. EXCEPT SCHAEFFER AND SPRING ST.)

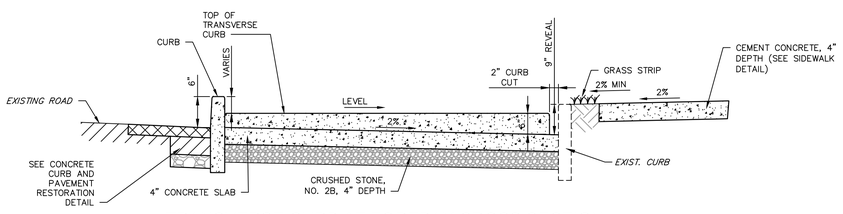
NOT SCALE



NOTES:
1. PLANTINGS PER SHEET C.5–04.
2. AMENDED SOIL TO BE 2 PARTS TOPSOIL, 1 PART COMPOST, BLENDED.

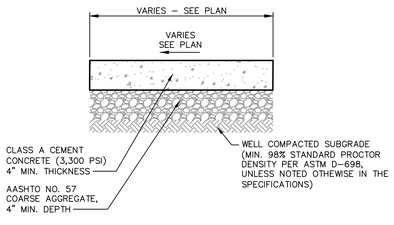
RAIN GARDEN PROFILE (SCHAEFFER AND SPRING ST.)

NOT SCALE



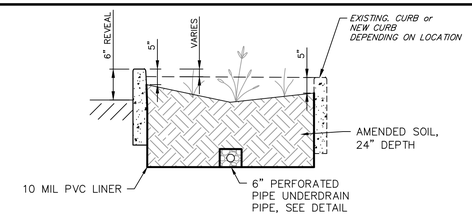
TRANSVERSE CURB AT FOREBAY CROSS SECTION

NOT TO SCALE



NOTES:
1. THE TOP SURFACES OF CONCRETE SLAB SHALL RECEIVE A SLIP–RESISTANT FLOATED OR BROOM FINISH.
2. SEAL ALL EXPANSION JOINTS WITH SELF–LEVELING, UV RESISTANT, EXTERIOR GRADE, NON–PRIMING POLYURETHANE SEALANT MATCHING THE CONCRETE COLOR. SURFACE OF SEALANT TO BE FLUSH WITH SIDEWALK.
3. ALL CONCRETE SLAB SURFACES SHALL RECEIVE AQUAPEL PLUS (OR APPROVED EQUAL) SEALER. APPLY IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

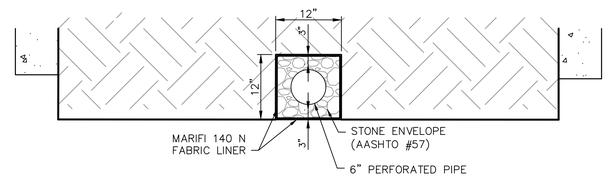
CONCRETE SLAB



NOTE:
REFER TO NOTES AND STORM SEWER NOTES ON THIS DRAWING FOR ADDITIONAL INFORMATION.

RAIN GARDEN CROSS SECTION

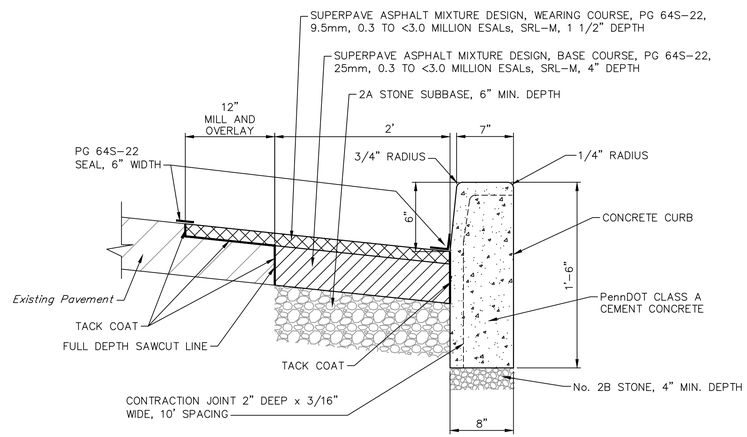
NOT TO SCALE



NOTES:
REFER TO NOTES AND STORM SEWER NOTES ON THIS DRAWING FOR ADDITIONAL INFORMATION.

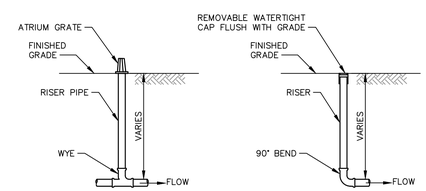
RAIN GARDEN UNDERDRAIN DETAIL

NOT TO SCALE



CONCRETE CURB AND PAVEMENT RESTORATION DETAIL

NOT TO SCALE



IN–LINE END OF LINE

NOTES:
1. REFER TO PLANS, DETAILS AND NOTES FOR PIPE MATERIAL AND TYPE OF PIPE (PERF. OR SOLID).
2. REFER TO PLAN FOR CLEANOUT (CO) AND ATRIUM GRATE LOCATIONS.

TYPICAL CLEANOUT AND ATRIUM GRATE DETAIL

NOT TO SCALE

NOTES:

1. THE CONTRACTOR MUST CONTACT THE PA ONE CALL THREE (3) WORKING DAYS PRIOR TO ANY CONSTRUCTION ACTIVITIES.
2. CONTRACTOR MUST DISPOSE OF ALL EXCAVATED MATERIALS OFFSITE IN A MANNER ACCEPTABLE TO THE OWNER AND IN ACCORDANCE WITH STATE AND FEDERAL REGULATIONS.
3. ALL MATERIALS USED IN THIS PROJECT MUST BE OBTAINED FROM PENNDOT APPROVED SUPPLIERS.
4. ALL MANHOLES AND VALVE BOXES WITHIN THE PROJECT AREA SHALL BE ADJUSTED TO GRADE BY THE CONTRACTOR.
5. REMOVE DEBRIS AND FLUSH OUT ALL NEW STORM DRAINAGE FACILITIES AND ANY EXISTING STORM FACILITIES WITHIN THE PROJECT LIMITS THAT HAVE BEEN PARTIALLY OR COMPLETELY CLOGGED BY THE CONTRACTOR, AT THE COMPLETION OF CONSTRUCTION. THE CONTRACTOR SHALL UTILIZE INLET PROTECTION WHEN WORKING ADJACENT TO AN INLET.
6. NO MILLINGS OR WEARING COURSE SHALL BE DEPOSITED INTO INLETS.
7. PLACE A MINIMUM OF FOUR INCHES TOPSOIL. SEED AND MULCH ALL DISTURBED AREAS NOT RECEIVING PAVEMENT BUT AFFECTED BY CONSTRUCTION.
8. THE CONTRACTOR SHALL KEEP ALL PUBLIC ROADS, PRIVATE DRIVEWAYS AND SIDEWALKS "BROOM CLEAN" WITH A MECHANICAL SWEEPER WHEN ACTIVELY WORKING ON THESE ROADS, AND AT THE CONCLUSION OF EACH WORK DAY, OR AS REQUIRED BY THE ENGINEER AT ALL OTHER TIMES.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND/OR RESETTING OF MAILBOXES, STREET SIGNS, REGULATORY SIGNS, ETC. WITHIN THE PROJECT LIMITS. THIS WORK SHALL BE INCIDENTAL.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR WRITTEN NOTIFICATION TO THE ADJACENT PROPERTY OWNERS DIRECTLY AFFECTED BY THE CONSTRUCTION ONE WEEK AND AGAIN 24 HOURS PRIOR TO THE START OF ROAD CONSTRUCTION.
11. WHEREVER PLACEMENT OF NEW PAVEMENT SURFACE IS INDICATED AS DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE AND MAINTAIN POSITIVE DRAINAGE. IF NOTABLE DRAINAGE ISSUE ARE PRESENT POST–CONSTRUCTION, THE CONTRACTOR SHALL REQUIRED TO RECTIFY THE DRAINAGE ISSUE AT THEIR EXPENSE AS A PUNCH LIST ITEM.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF ALL DETOURS WITH POLICE AND/OR FIRE DEPARTMENT PERSONNEL.
13. MANHOLE PICHOLES SHALL BE CLEANED OF DEBRIS BY THE CONTRACTOR.
14. BEFORE PLACING CURB BITUMINOUS SEAL, ENSURE CURB LINE IS CLEAN OF DEBRIS BY THE CONTRACTOR. IF CURB IS SEAL COATED WITH DEBRIS, THE CONTRACTOR WILL BE REQUIRED TO RESEAL THE CURB AT HIS OR HER EXPENSE TO THE SATISFACTION OF THE ENGINEER.
15. STREETS SHALL BE BROOM SWEPT / FREE OF DEBRIS AND DRY PRIOR TO ANY PAVEMENT MARKING OPERATIONS. THE CONTRACTOR SHALL VERIFY WEATHER CONDITIONS WILL ALLOW FOR PROPER DRYING TIME. SHOULD A RAIN EVENT OCCUR WHICH AFFECTS THE FINAL PAVEMENT MARKING PRODUCT, THE CONTRACTOR MAY BE REQUIRED TO RECTIFY THE SITUATION, AT THEIR EXPENSE, AT THE DIRECTION OF THE ENGINEER.
16. ALL LINE LOCATIONS SHALL BE VERIFIED PRIOR TO PLACEMENT. PAVEMENT MARKING LAYOUT SHALL BE REVIEWED WITH THE ENGINEER PRIOR TO ANY PAVEMENT MARKING INSTALLATIONS.
17. THE CONTRACTOR SHALL MAINTAIN SEEDED AREAS IMMEDIATELY AFTER PLACEMENT UNTIL GRASS IS WELL ESTABLISHED AND EXHIBITS A VIGOROUS GROWING CONDITION.
18. THE CONTRACTOR SHALL REPLACE TOPSOIL AT ALL ERODED AREAS AND/OR WASHOUTS AND SHALL RESEED WITH THE SAME SEED MIX, OR SHALL PLACE SOD OF THE SAME SEED MIX.
19. ALL SEEDING SHALL BE PENNDOT FORMULA B. THE CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING LONG TERM GRASS GROWTH WITHIN A YEAR OF THE FIRST SEEDING INSTALLATION.
20. ALL SIDEWALKS, CURBS AND CONCRETE DRIVEWAY ENTRANCES SHALL BE CONSTRUCTED ON A 4" MINIMUM DEPTH 3/4" CLEAN CRUSHED STONE BASE (AASHTO NO. 57 OR PENNDOT NO. 2B).
21. WHERE PROPOSED SIDEWALK REPLACES EXISTING SIDEWALK IN THE SAME LOCATION, THE EXISTING STONE BASE SHALL BE SHAPED, COMPACTED AND RE–USED.
22. ALL CEMENT CONCRETE SHALL HAVE A MINIMUM 28–DAY COMPRESSIVE STRENGTH OF 3,300 PSI.
23. ALL EXPANSION JOINTS SHALL BE 1/2" THICK PREMOLDED, NON–EXTRUDING, RESILIENT BITUMINOUS JOINT FILLER.
24. EXPANSION JOINTS SHALL BE PROVIDED AT 20' (MAXIMUM) SPACING IN SIDEWALKS AND 60' (MAXIMUM) SPACING IN CURBS FOR THE FULL DEPTH OF THE CONCRETE. SCORED CONTRACTION JOINTS SHALL BE PROVIDED AT 10' INTERVALS IN CURBS AND 5' INTERVALS IN SIDEWALKS. EXPANSION JOINTS SHALL BE PLACED BETWEEN THE CURB AND SIDEWALK IF THEY ABUT EACH OTHER.
25. SIDEWALK WIDTHS AND PLANTING STRIP WIDTHS SHOWN ON THE PLAN VIEW SHEETS SHALL TAKE PRECEDENCE OVER DIMENSIONS SHOWN ON THE DETAILS.
26. EXPANSION JOINT MATERIAL SHALL BE INSTALLED BETWEEN PROPOSED CURB THAT ABUTS OR CONNECTS TO EXISTING CURB. ONCE CURBING HAS CURED, SUCH JOINTS SHALL BE ADDITIONALLY SEALED WITH A SILICONE SEALANT.

STORM SEWER NOTES:

1. ALL STORM STRUCTURES AND APPURTENANCES, PIPE MATERIALS AND CONSTRUCTION SHALL MEET CURRENT PENNDOT PUB. 408 AND STANDARDS FOR ROADWAY CONSTRUCTION (RC SERIES PUB 72M) SPECIFICATIONS, UNLESS OTHERWISE DICTATED BY MUNICIPAL SPECIFICATIONS, CODES OR ORDINANCES. ALL PRECAST STRUCTURES AND ASSOCIATED APPURTENANCES MUST BE SUPPLIED BY A MANUFACTURER LISTED IN BULLETIN 15. HOWEVER, IF SPECIFIED ON THE DRAWINGS, ALTERNATE DIMENSIONS, (I.E. TYPE C TOP UNIT REVEAL, INLET TOP UNIT OR BOX DIMENSIONS, ETC.) ARE PERMITTED AS LONG AS CONSTRUCTION MEETS ALL PENNDOT SPECIFICATIONS PREVIOUSLY NOTED. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL.
2. ALL PROPOSED STORM SEWERS SHALL BE SMOOTH–BORE HIGH–DENSITY POLYETHYLENE PIPE (HDPE), UNLESS NOTED OTHERWISE. SLCPP SHALL MEET THE REQUIREMENTS OF AASHTO M252 (4'–8") AND M294 (10" AND LARGER). PIPE SHALL BE PROVIDED WITH WATERTIGHT JOINTS MEETING THE REQUIREMENTS OF AASHTO D3212 LAB TEST AND ASTM 1417 FIELD TEST, ADVANCED DRAINAGE SYSTEM, INC. N–12 WT IB PIPE, HANCOR BLUE–SEAL PIPE, OR APPROVED EQUAL, UNLESS NOTED OTHERWISE. IF SPECIFIED, REINFORCED CONCRETE PIPE (RCP) SHALL BE CLASS 3, WALL B WITH O–RING JOINTS MEETING ASTM C76, C507 AND C443. IF SPECIFIED, ALUMINIZED CORRUGATED STEEL PIPE SHALL BE MINIMUM 14 GAGE MEETING AASHTO M274 AND M36 WITH HELICAL CORRUGATIONS.
3. THE PROPOSED STORM SEWER PIPE LENGTHS ARE MEASURED FROM INSIDE FACE TO INSIDE FACE OF STRUCTURE, TO FACES OF ENDWALLS AND HEADWALLS, AND TO THE OUTFALL END OF END SECTIONS, WHERE APPLICABLE.
4. ALL STORM SEWER PIPES AND/OR CULVERTS SHALL BE CUT TO CONFORM TO INTERIOR STRUCTURE WALLS AND FACES OF ENDWALLS AND HEADWALLS.
5. ALL STORM INLETS TO BE STANDARD PENNDOT–APPROVED PRECAST CONCRETE BOXES WITH 2'x4' TYPE M OR TYPE C TOP UNITS, UNLESS NOTED OTHERWISE, WITH STRUCTURAL STEEL BICYCLE–SAFE GRATES MEETING PENNDOT PUB. 72M RC–45M SPECIFICATIONS.
6. INLET TOP UNITS SHALL BE ADJUSTED TO THE MAXIMUM EXTENT PRACTICABLE TO MATCH THE SLOPE OF THE DRIVEWAY OR STREET PAVING.
7. CONCRETE FLOW CHANNELS SHALL BE POURED IN ALL EXISTING AND PROPOSED STRUCTURES INCLUDED IN THE WORK IN ACCORDANCE WITH PENNDOT RC–46M.
8. ALL PIPE CONNECTIONS IN NEW OR MODIFIED STRUCTURES SHALL ENTER THROUGH THE ENTIRE WALL AND BE SEALED USING NON–SHRINK GROUT MORTAR AND MASONRY BRICK. INTERIOR AND EXTERIOR BRICKED AREAS SHALL BE PARGED WITH NON–SHRINK MORTAR AND ALLOWED TO SET PRIOR TO BACKFILLING. BRICK SHALL MEET AASHTO M91 SPECIFICATIONS, GRADE SS. IF RED BRICK IS USED, ONLY 213Y OR HARVARD SOLID NON–POROUS BRICK MANUFACTURED BY GLEN GERY BRICK (OR APPROVED EQUAL) SHALL BE USED; STANDARD RED BRICK SHALL NOT BE USED.
9. ALL PIPE CONNECTIONS TO MODIFIED STRUCTURE WALLS SHALL BE SUPPORTED OUTSIDE THE STRUCTURE WALL WITH A MINIMUM 6 INCH DEEP CONCRETE CRADLE POURED UNDER THE PIPE ON COMPACTED SUBGRADE FOR A DISTANCE OF 3 FEET.

NO.	DATE	DESCRIPTION	MADE	CHKD	APV'D
2	09/13/22	PA/AH REVISIONS 1	NS	KKM	NS
1	06/13/22	ADDENDUM 1	KKS	NS/JC	KKM
0	06/02/22	ISSUED FOR BIDDING	KKS	NS/KDM	KDM

RELEASED FOR: CONSTRUCTION

DATE: 03/29/22
N.B.:
DESIGNED BY: JC
CHKD:
PROJECT MANAGER: KDM
BASE BY: HMM
DRAWN BY: JC

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
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Allentown, PA 18104
610.821.2345
WEST CHESTER
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West Chester, PA 19380
610.627.2030

BOROUGH OF BOYERTOWN
BERKS COUNTY, PENNSYLVANIA
RAIN GARDEN AND BUMP OUT PROJECT
SITE CONSTRUCTION DETAILS

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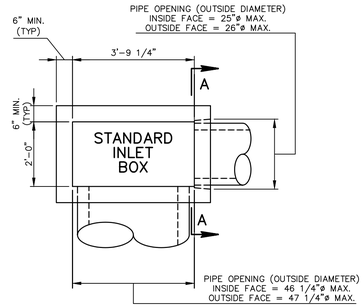
DATE	DIGITAL FILENAME
03/29/22	1051780024 C.6-01

WORK ORDER NUMBER: 105178.0024

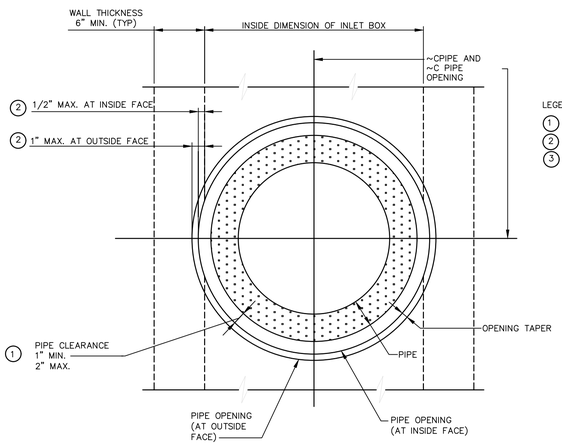
DRAWING NUMBER: C.6-01



PRECAST CONCRETE INLET/JUNCTION BOX NOTES:

1. REFER TO PennDOT PUB. 72M, RC-46M, SHEETS 1-45 FOR ADDITIONAL REQUIREMENTS.
2. REFER TO RC-45M FOR INLET GRATE, FRAME AND TOP UNIT REQUIREMENTS AND RC-39M FOR JUNCTION BOX MANHOLE FRAME AND LID REQUIREMENTS.
3. SEE "FIELD CONSTRUCTION NOTES" ON RC-46M, SHEET 1 OF 45, FOR CONCRETE FLOW CHANNELS, SUBBASE AND OTHER REQUIREMENTS.
4. INLET BOXES CONSTRUCTED IN STREETS OR DRIVEWAYS SHALL BE SET LEVEL WITH THE TOP UNIT SET TO CONFORM TO THE STREET OR DRIVEWAY GRADE ON SLOPES GREATER THAN 2%.
5. WHILE NOT PREFERRED, CORNER PIPE OPENINGS ARE PERMITTED IN ONE CORNER. A MINIMUM OF 8" OF CONCRETE MUST BE PROVIDED BETWEEN THE PRECAST PIPE OPEINING AND THE TOP OF THE BOX.
6. PRECAST MANUFACTURER SHALL ENSURE THAT STEPS DO NOT CONFLICT WITH PIPE HOODS, "SNOUT" HOODS, BAFFLES, AND/OR PIPE OPENINGS.
7. ALL PRECAST STRUCTURES AND APPURTENANCES MUST BE SUPPLIED BY A MANUFACTURER LISTED IN BULLETIN 15.

REFER TO GRADING PLAN FOR STORM SEWER SPECIFICATION NOTES.



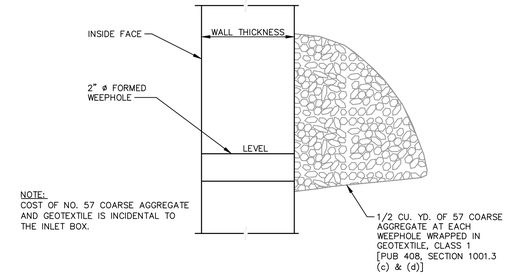
LEGEND

1. OUTSIDE DIAMETER OF PIPE TO PIPE OPENING
2. REDUCTION IN WALL THICKNESS DIMENSION
3. INSIDE FACE OF BOX WALL TO OUTSIDE DIAMETER OF PIPE OPENING

SECTION A–A
(STANDARD INLET BOX ONLY)

PRECAST CONCRETE INLET BOXES

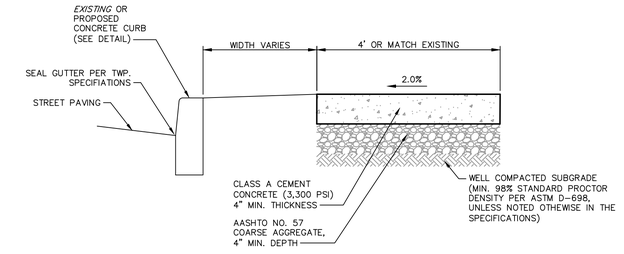
NO SCALE



NOTE:
COST OF NO. 57 COARSE AGGREGATE AND GEOTEXTILE IS INCIDENTAL TO THE INLET BOX.

WEEPHOLE DETAIL

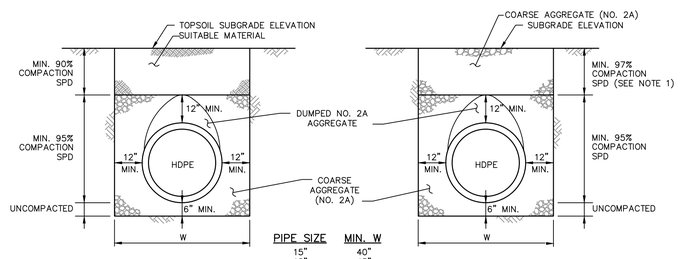
NO SCALE



NOTES:

1. EXPANSION JOINT – ½" PREFORMED, NON-EXTRUDING, RESILIENT BITUMINOUS JOINT FILL TO BE PLACED THE FULL DEPTH OF THE SIDEWALK EVERY 20 FEET AND AGAINST HANDICAP RAMPS, CURB, STEPS, BUILDINGS, AND EXISTING SIDEWALK. SAWCUT JOINTS SHALL BE PLACED EVERY 5 FEET.
2. 28-DAY CURING TIME WITH AIR ENTRAINMENT EQUIVALENT TO 5% PLUS OR MINUS 1%.
3. SIDEWALK EDGES SHALL BE ROUNDED WITH ¼" RADIUS JOINT TOOL.
4. THE TOP SURFACES OF SIDEWALKS, ADA CURB RAMPS AND DRIVEWAY ENTRANCES SHALL RECEIVE A SLIP-RESISTANT FLOATED OR BROOM FINISH, AND THE FINISH TOLERANCE SHALL BE A TRUE PLANE WITHIN 1/4 INCH IN 10 FEET. THE EXPOSED VERTICAL SURFACES OF CURBS, CURB RAMPS AND DRIVEWAY ENTRANCES SHALL BE REPAIRED OF ALL HONEYCOMBED AND DEFECTIVE AREAS AND SHALL RECEIVE A SMOOTH-RUBBED FINISH. THE FINISHING SHALL BE COMPLETED NO LATER THAN 24 HOURS AFTER POUR.
5. SEAL ALL EXPANSION JOINTS WITH SELF-LEVELING, UV RESISTANT, EXTERIOR GRADE, NON-PRIMING POLYURETHANE SEALANT MATCHING THE CONCRETE COLOR. SURFACE OF SEALANT TO BE FLUSH WITH SIDEWALK.
6. ALL SIDEWALK SURFACES SHALL RECEIVE AQUAPEL PLUS (OR APPROVED EQUAL) SEALER. APPLY IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

CONCRETE SIDEWALK



PIPE SIZE	MIN. W
15"	40"
18"	45"
24"	54"
30"	60"
36"	66"

CROSS-COUNTRY INSTALLATIONS

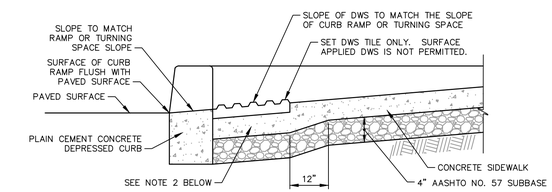
UNDER BITUMINOUS PAVED SURFACES

NOTES:

1. COMPACT TOP 36" TO 100% PER PENNDOT PUBLICATION 408, SECTION 206.3.
2. SPD IS STANDARD PROTECTOR DENSITY.

TRENCH & BACKFILL FOR HIGH-DENSITY POLYETHYLENE PIPE

NO SCALE

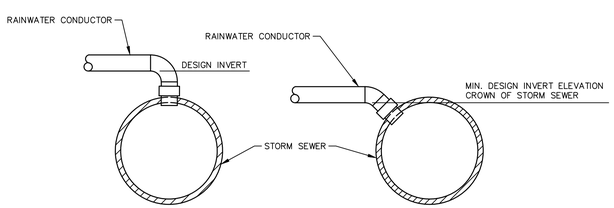


NOTES:

1. SEE PLAN VIEW FOR LOCATIONS.
2. CONSTRUCT NOTCH AS SHOWN TO PROVIDE FULL THICKNESS SIDEWALK UNDER DETECTABLE WARNING SURFACE.

DETECTABLE WARNING SURFACE

NO SCALE



(TOP ENTRY)
PREFERRED INSTALLATION

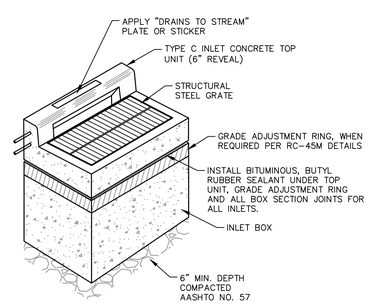
(SIDE ENTRY)
ALTERNATE INSTALLATION

NOTES:

1. INSERTA TEE MANUFACTURED BY INSERTA FITTINGS CO., (503) 357-2100.
2. UNI-T FITTINGS OR QWIKSEAL FITTINGS MAY BE SUBSTITUTED FOR 4", 6" OR 8" RWC PIPES. THE UNI-T FITTINGS IS MANUFACTURED BY HANCOR, INC., (888) 367-7473. THE QWIKSEAL FITTING IS MANUFACTURED BY FERNCO, INC. (810) 653-9626.

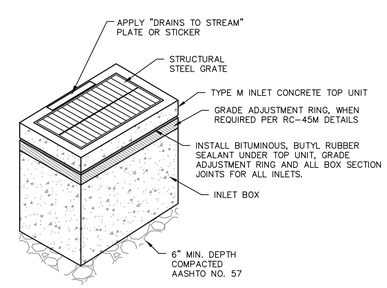
INSERTA TEE STORM SEWER CONNECTION

NO SCALE



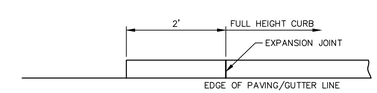
TYPE C INLET

NO SCALE

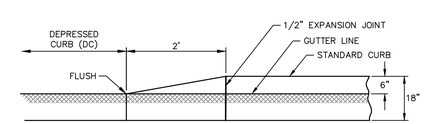


TYPE M INLET

NO SCALE



PLAN VIEW



FRONT VIEW

TRANSITION CURB DETAIL

NO SCALE

NO.	DATE	DESCRIPTION	MADE	CHKD	APV'D
2	09/13/22	PA/AR REVISIONS 1	NS	KRM	NS
1	05/13/22	ADDENDUM 1	KKS	NS/JC	KDM
0	05/02/22	ISSUED FOR BIDDING	KKS	NS/KDM	KDM

RELEASED FOR:
CONSTRUCTION

DATE: 03/29/22
N.B.:
CHKD:
PROJECT MANAGER: KDM
BASE BY: HMM
DRAWN BY: JC
DESIGNED BY: JC

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
NICHOLAS A. SZEREDAI
ENGINEER
PE085674

SSM
SPOTTS, STEVENS & MCCOY
Engineers and Consultants
ssmgroup.com

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Reading, PA 19610-0307
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LANCASTER
731 Creekside Lane
Lancaster, PA 17601
717.560.2979
LEHIGH VALLEY
Rivers Corporate Center, Suite 106
1930 Colonial Village Lane
Allentown, PA 18104
610.821.7760
WEST CHESTER
101 East Evans Street
West Chester, PA 19380
610.621.2000

BOROUGH OF BOYERTOWN
BERKS COUNTY, PENNSYLVANIA
RAIN GARDEN AND BUMP OUT PROJECT
SITE CONSTRUCTION DETAILS

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DATE	DIGITAL FILENAME
03/29/22	1051780024 C.6-02

WORK ORDER NUMBER: 105178.0024

DRAWING NUMBER: C.6-02