

RAIN GARDEN AND BUMP OUT PROJECT

PREPARED FOR

BOROUGH OF BOYERTOWN

BERKS COUNTY, PENNSYLVANIA

BY

READING
1047 North Park Road
Reading, PA 19610-0307
610.621.2000
LANCASTER
701 Creekside Lane
Lititz, PA 17543
717.568.2678
LEHIGH VALLEY
Roma Corporate Center, Suite 106
1605 N Cedar Crest Blvd
Allentown, PA 18104
610.849.9700
WEST CHESTER
101 East Evans Street
West Chester, PA 19380
610.621.2000



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

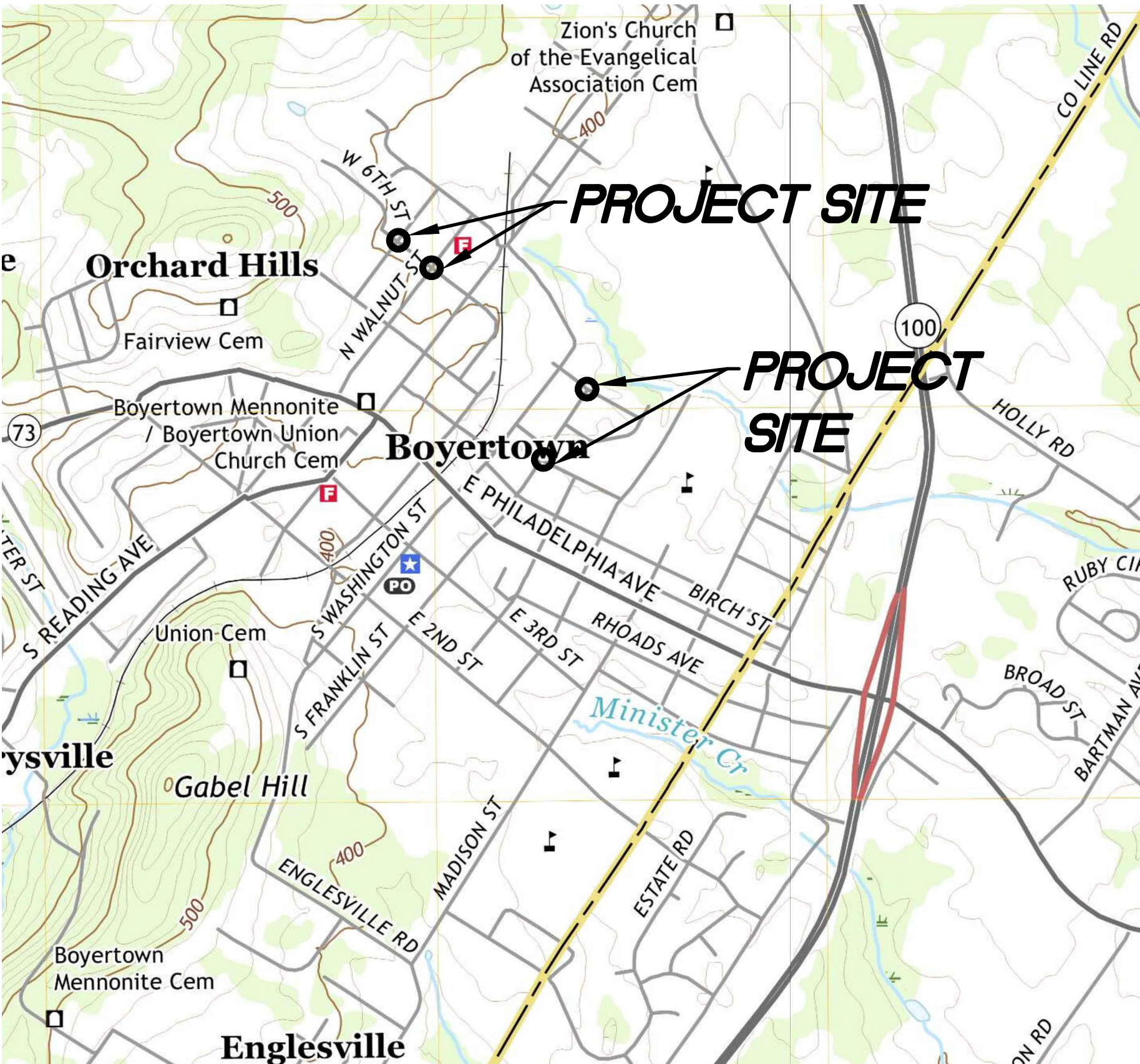


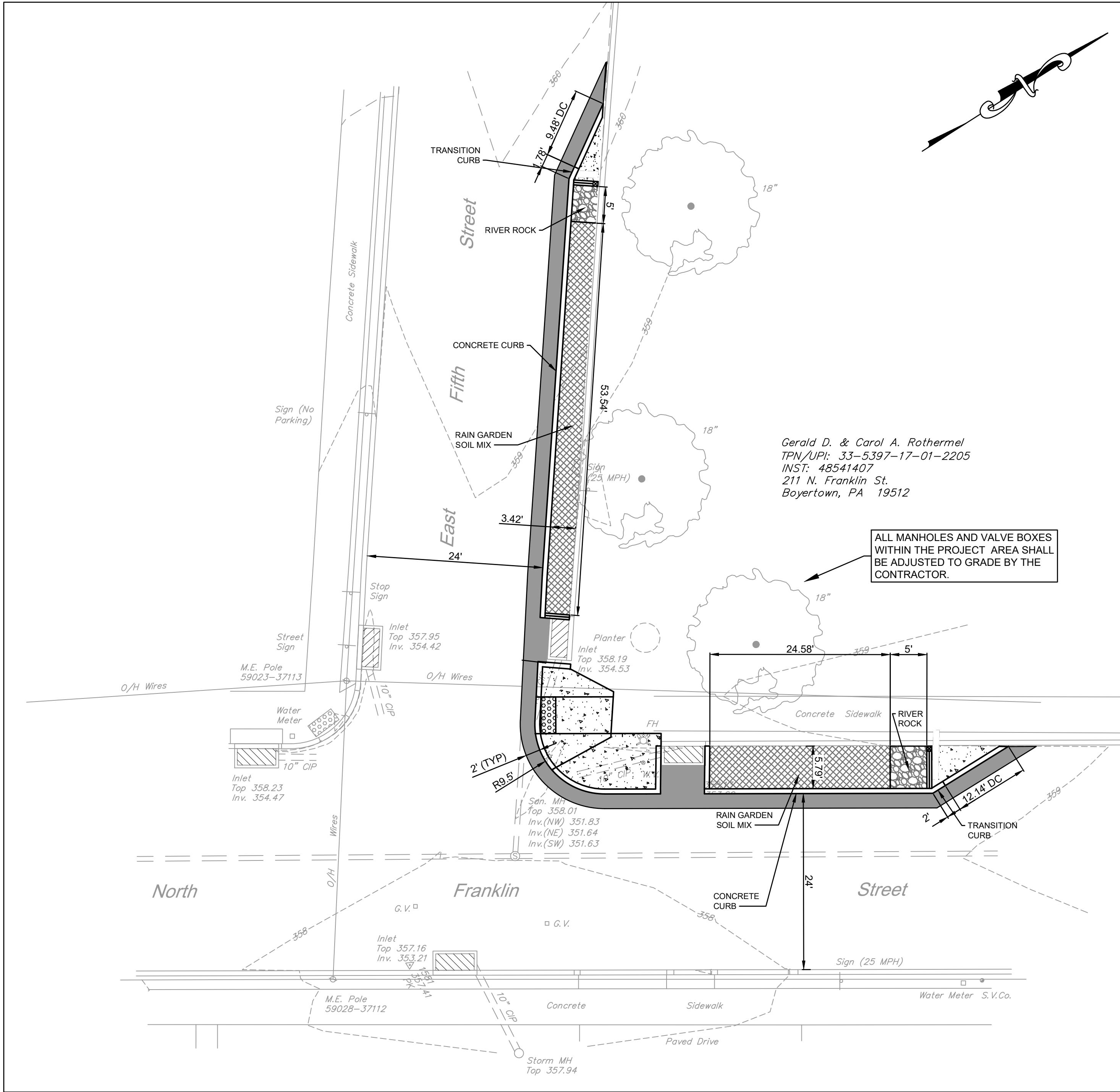
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MUNICIPALITY: BOROUGH OF BOYERTOWN, BERKS COUNTY
IT IS THE CONTRACTORS RESPONSIBILITY TO COMPLY WITH THE PENNSYLVANIA ACT 287 AND TO CONTACT THE "ONE CALL SYSTEM" THREE (3) WORKING DAYS (UNLESS OTHERWISE NOTED) PRIOR TO START OF CONSTRUCTION.
WINDSTREAM
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
COMCAST
CONTACT: DAVE FIEDLER
TERRADEX INC.
OPERATOR@TERRADEX.COM

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

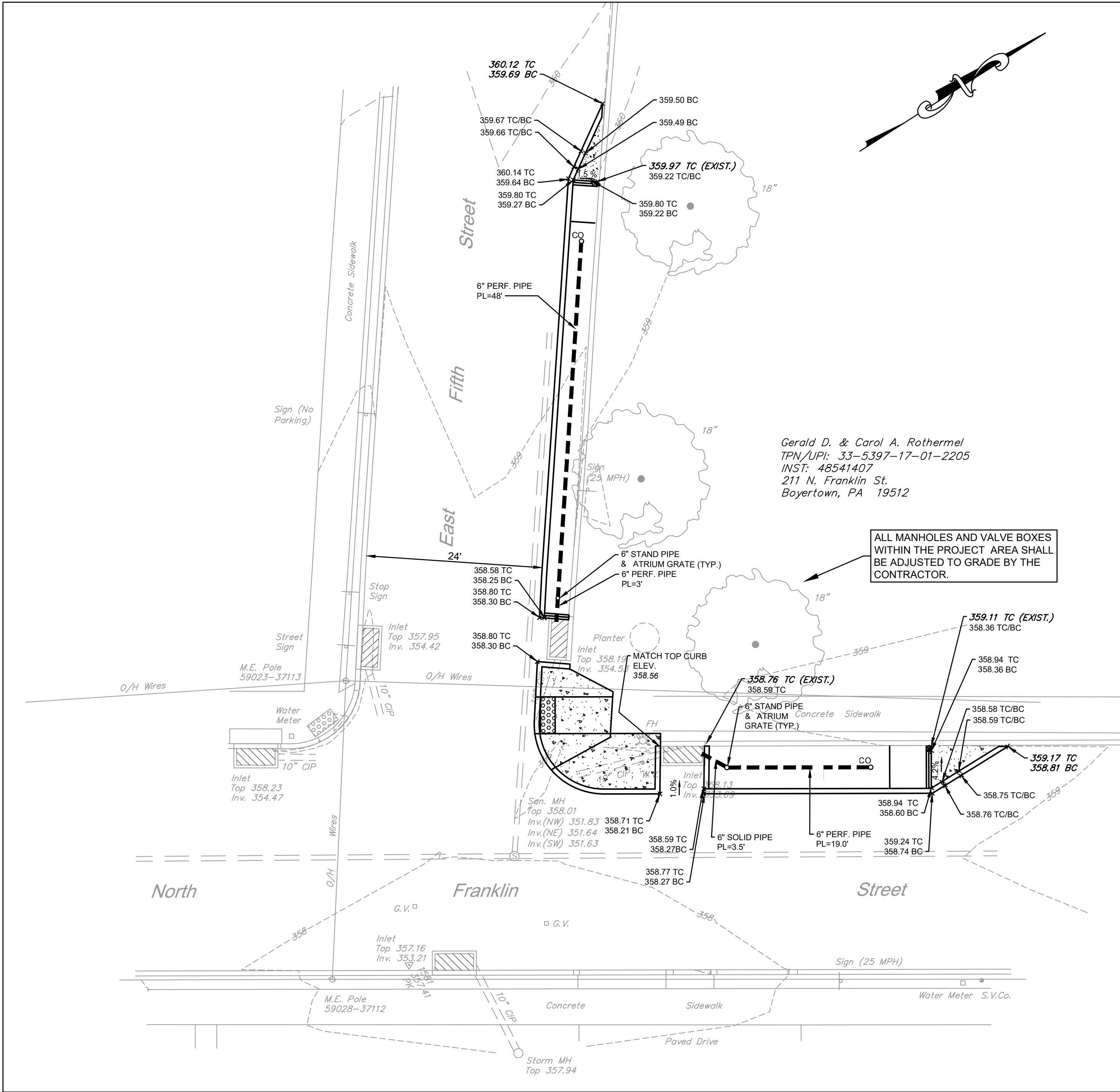


LOCATION MAP





SITE LAYOUT



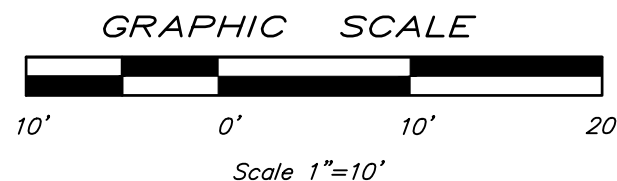
SPOT ELEVATIONS

EXISTING LEGEND

- EXISTING SANITARY MANHOLE
- EXISTING TREE
- EXISTING SIGN
- EXISTING FIRE HYDRANT
- EXISTING INLET
- EXISTING GAS VALVE
- EXISTING WATER VALVE
- EXISTING WATER STRUCTURE
- EXISTING UTILITY POLE
- EXISTING MAILBOX
- EXISTING GASLINE
- EXISTING WATERLINE
- EXISTING RIGHT-OF-WAY
- EXISTING STORM SEWER
- EXISTING SANITARY SEWER
- EXISTING OVERHEAD UTILITY LINES
- EXISTING CURB

PROPOSED LEGEND

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



RELEASED FOR:
CONSTRUCTION



READING
105178.0024
LANCASTER
LEHIGH VALLEY
WEST CHESTER

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

105178.0024

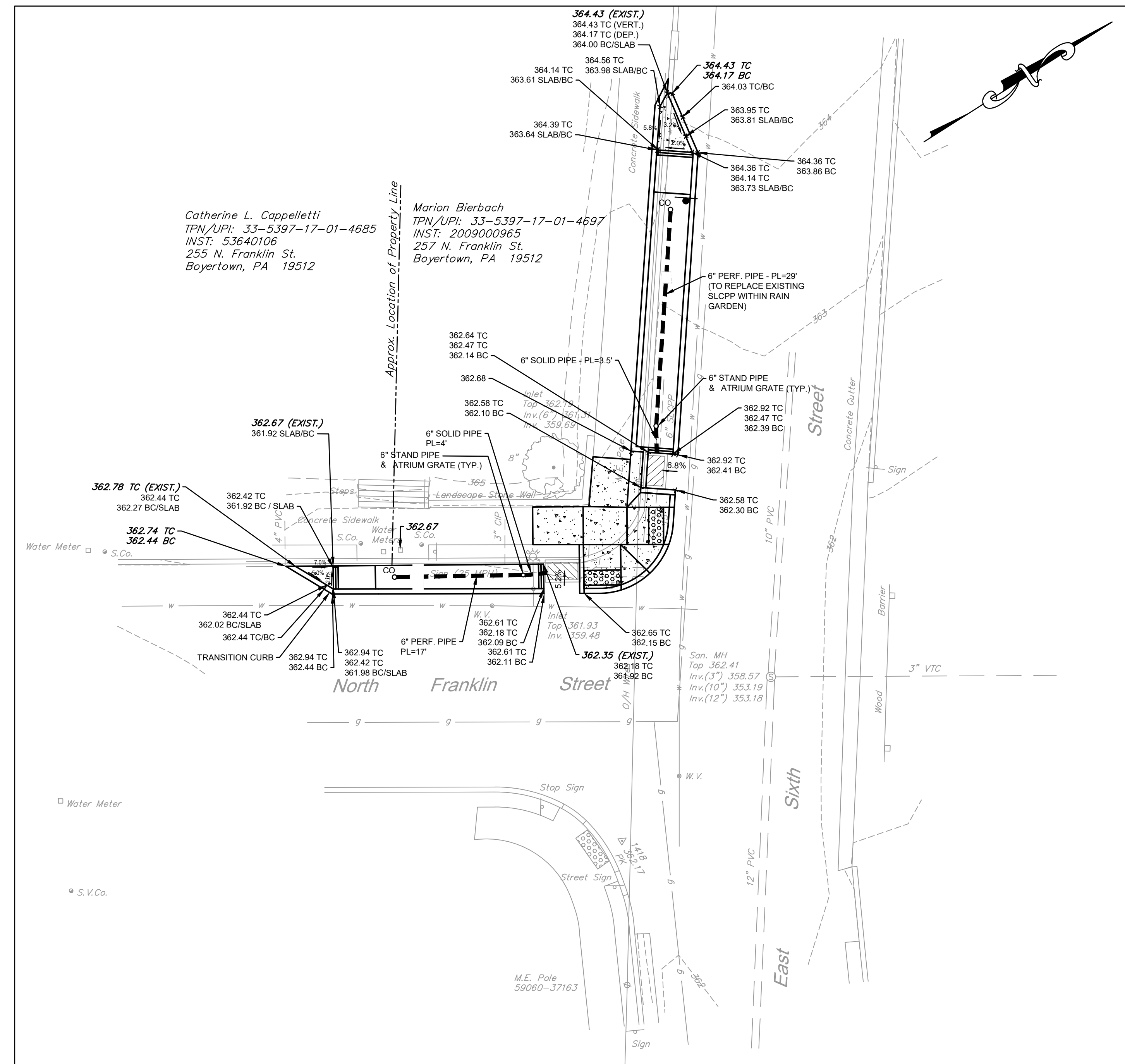
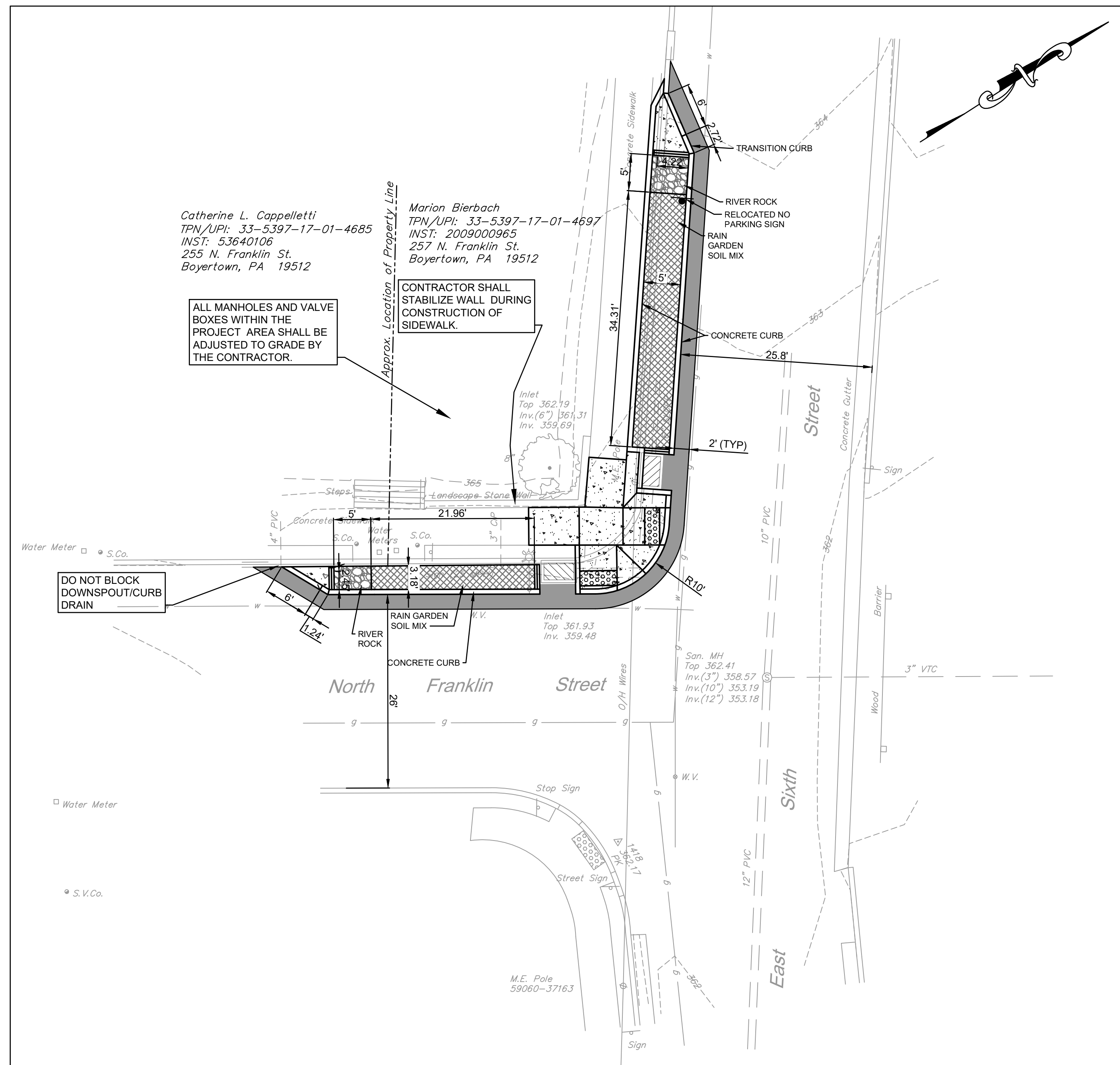
WORK ORDER NUMBER

C.1-01

DRAWING NUMBER

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NS	NS/JC	KOM
KKS	INS/JC	KOM
MADE	CHD	APVD

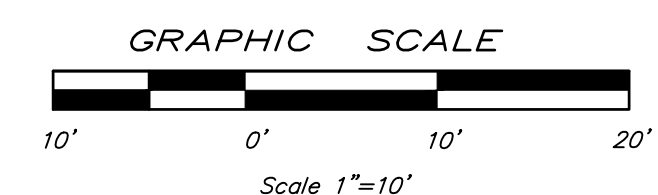
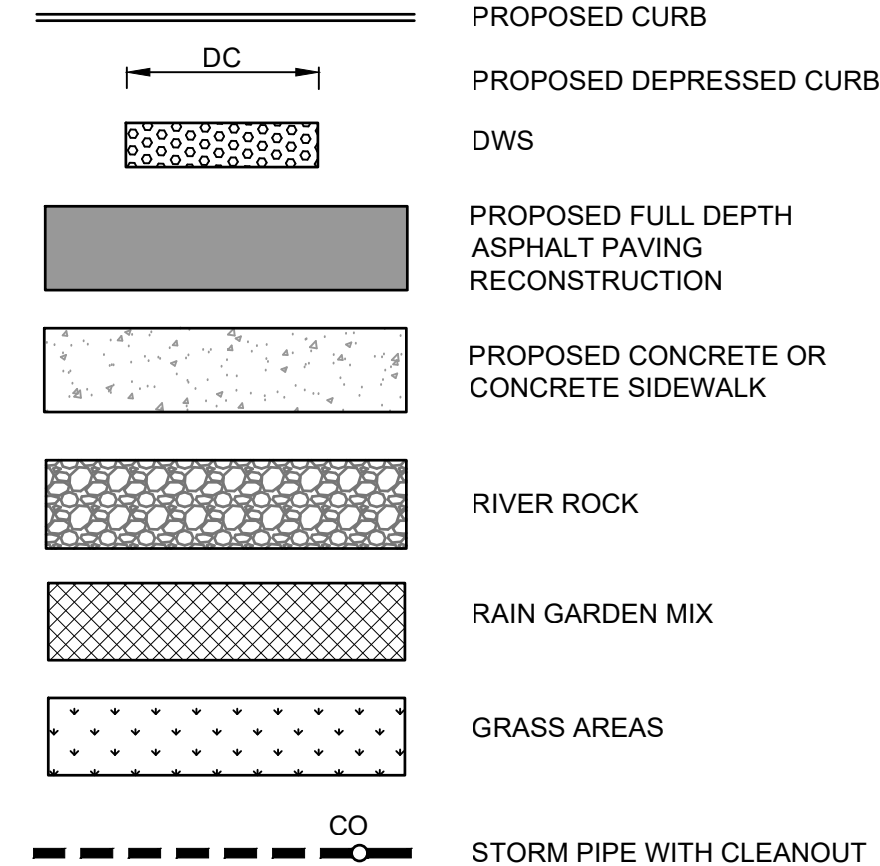
PROJECT MANAGER: KOM	DATE: 03/29/22
BASE BY: HMM	N.B.:
DRAWN BY: JC	DESIGNED BY: JC
CHD:	



EXISTING LEGEND



PROPOSED LEGEND



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READING
047 North Park Road
Reading, PA 19610-0307
10.621.2000

LANCASTER
01 Creekside Lane
Lititz, PA 17543
17.568.2878

HIGH VALLEY
Thomas Corporate Center, Suite 106
605 N Cedar Crest Blvd
Allentown, PA 18104
10.849.9700

WEST CHESTER
01 East Evans Street

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

03/29/22	10517800: C.1-02
DATE	DIGITAL FILEN

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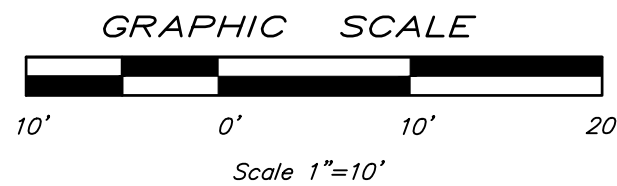
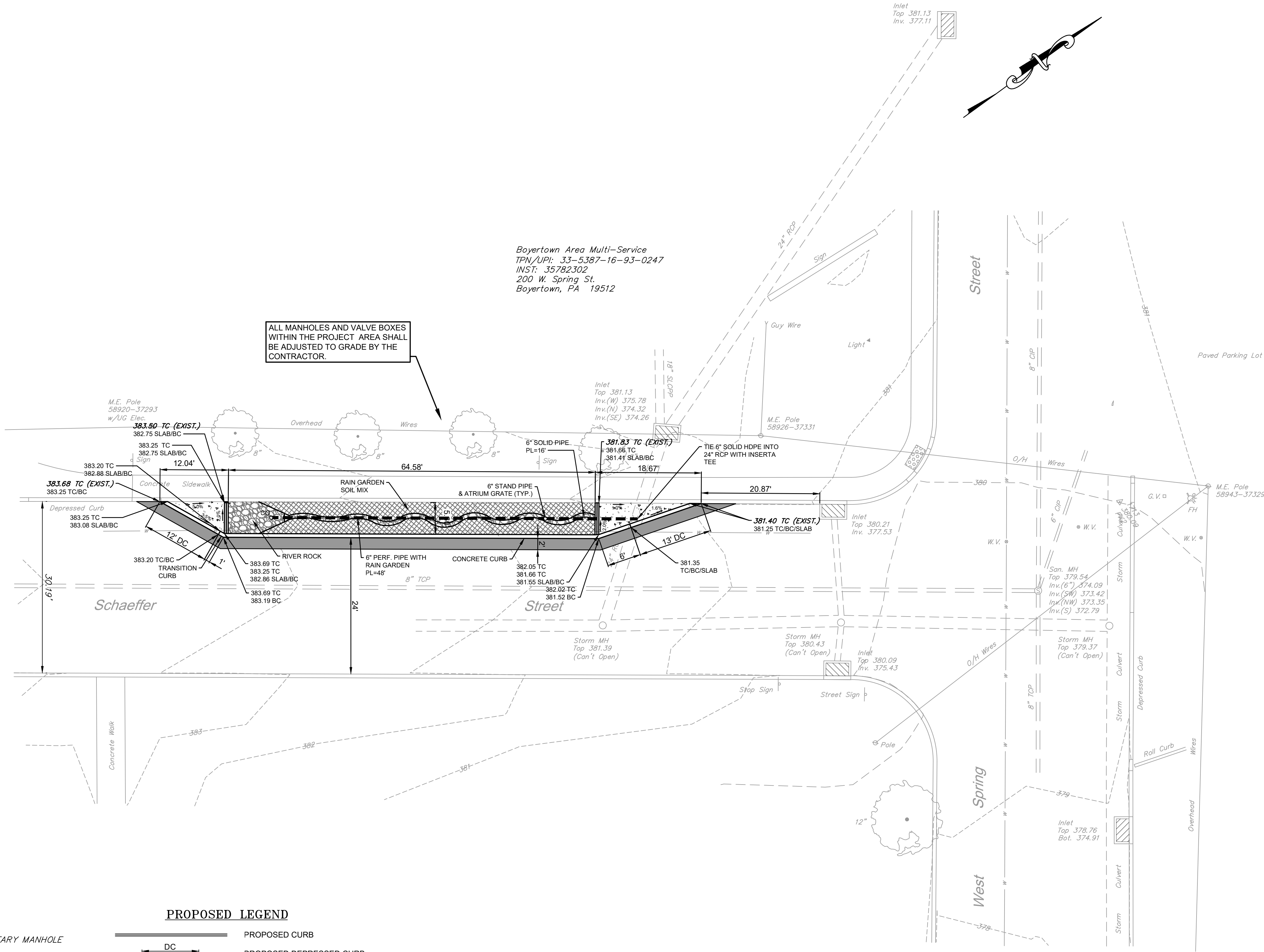
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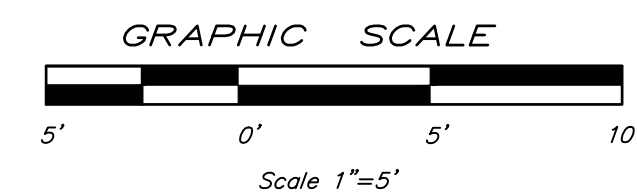
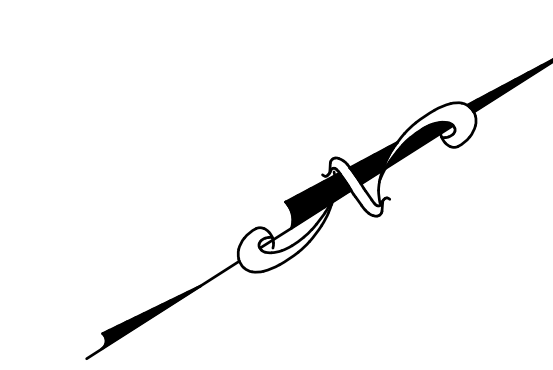
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- EXISTING LEGEND**
- EXISTING SANITARY MANHOLE
 - EXISTING TREE
 - EXISTING SIGN
 - EXISTING FIRE HYDRANT
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 - EXISTING GAS VALVE
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 - EXISTING SANITARY SEWER
 - EXISTING OVERHEAD UTILITY LINES
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- PROPOSED LEGEND**
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 - RIVER ROCK
 - RAIN GARDEN MIX
 - GRASS AREAS
 - STORM PIPE WITH CLEANOUT



RELEASED FOR:		CONSTRUCTION	
PROJECT MANAGER: KDM		DATE: 03/29/22	
BASE BY: HMM		N.B.:	
DRAWN BY: JC		DESIGNED BY: JC	
CHD:		CHD:	
BOROUGH OF BOYERTOWN BERKS COUNTY, PENNSYLVANIA RAIN GARDEN AND BUMP OUT PROJECT SCHAEFFER AND W SPRING STREET SITE LAYOUT AND SPOT ELEVATION PLAN COPYRIGHT 2022 SPOTTS, STEVENS & MCCOY			
03/29/22		1051780024	
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105178.0024		DIGITAL FILENAME	
WORK ORDER NUMBER		C.1-04	
DRAWING NUMBER		C.1-04	

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Reading, PA 19610-0307
610.821.2000

LANCASTER
701 Creekside Lane
Lititz, PA 17543
717.568.2878

LEHIGH VALLEY
Lehigh Valley Corporate Center, Suite 105
1605 N Cedar Crest Blvd
Allentown, PA 18104
610.849.9700

WEST CHESTER
101 East Evans Street

Borough of Boyertown

BERKS COUNTY, PENNSYLVANIA

CURB RAMPS

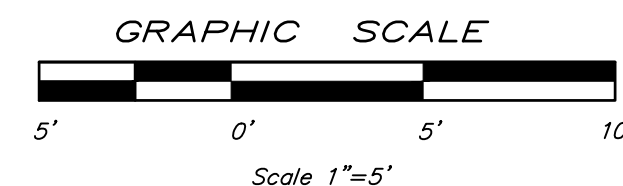
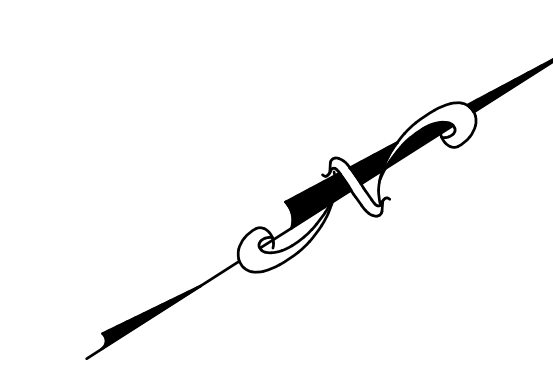
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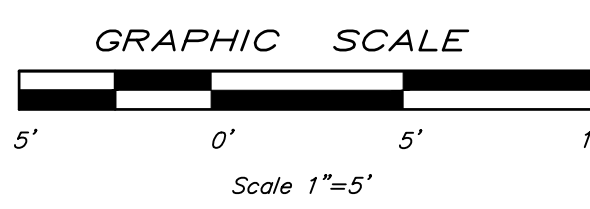
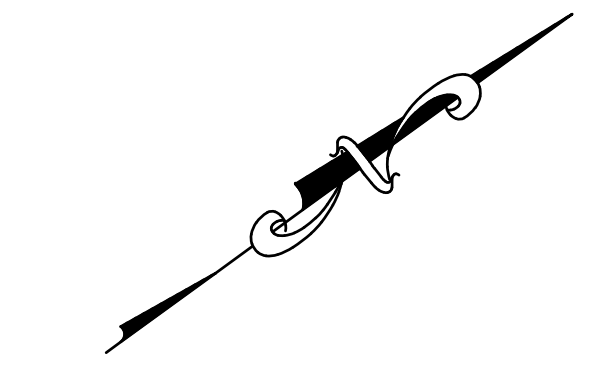
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BEANS 1517 North Park Road Pottsville, PA 17854 610.652.2200 / 610.650.007 LANCASTER 1000 North Park Road Pottsville, PA 17854 610.652.2200 / 610.650.007 LEHIGH VALLEY 1000 North Park Road Pottsville, PA 17854 610.652.2200 / 610.650.007 SPOTT'S, STEVENS & MCCOY Engineers and Consultants 1600 N. Cedar Crest Blvd Pottsville, PA 17854 610.649.9700 samlgroup.com		BOROUGH OF BOYERTOWN BERKS COUNTY, PENNSYLVANIA RAIN GARDEN AND BUMP OUT PROJECT N. FRANKLIN AND SIXTH STREET CURB RAMPS COPYRIGHT © 2022 SPOTT'S, STEVENS & MCCOY		03/29/22 105178.0024 C.1-11		DATE DIGITAL FILENAME		105178.0024		WORK ORDER NUMBER		C.1-11		DRAWING NUMBER	
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701 Creekside Lane
Litzitz, PA 17543
717.568.2878

LEHIGH VALLEY
Roma Corporate Center, Suite 105
1905 N Cedar Crest Blvd
Allentown, PA 18104
610.849.9700

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RAIN GARDEN AND BUMP OUT PROJECT
N. WALNUT AND W. SIXTH STREET
CURB RAMPS
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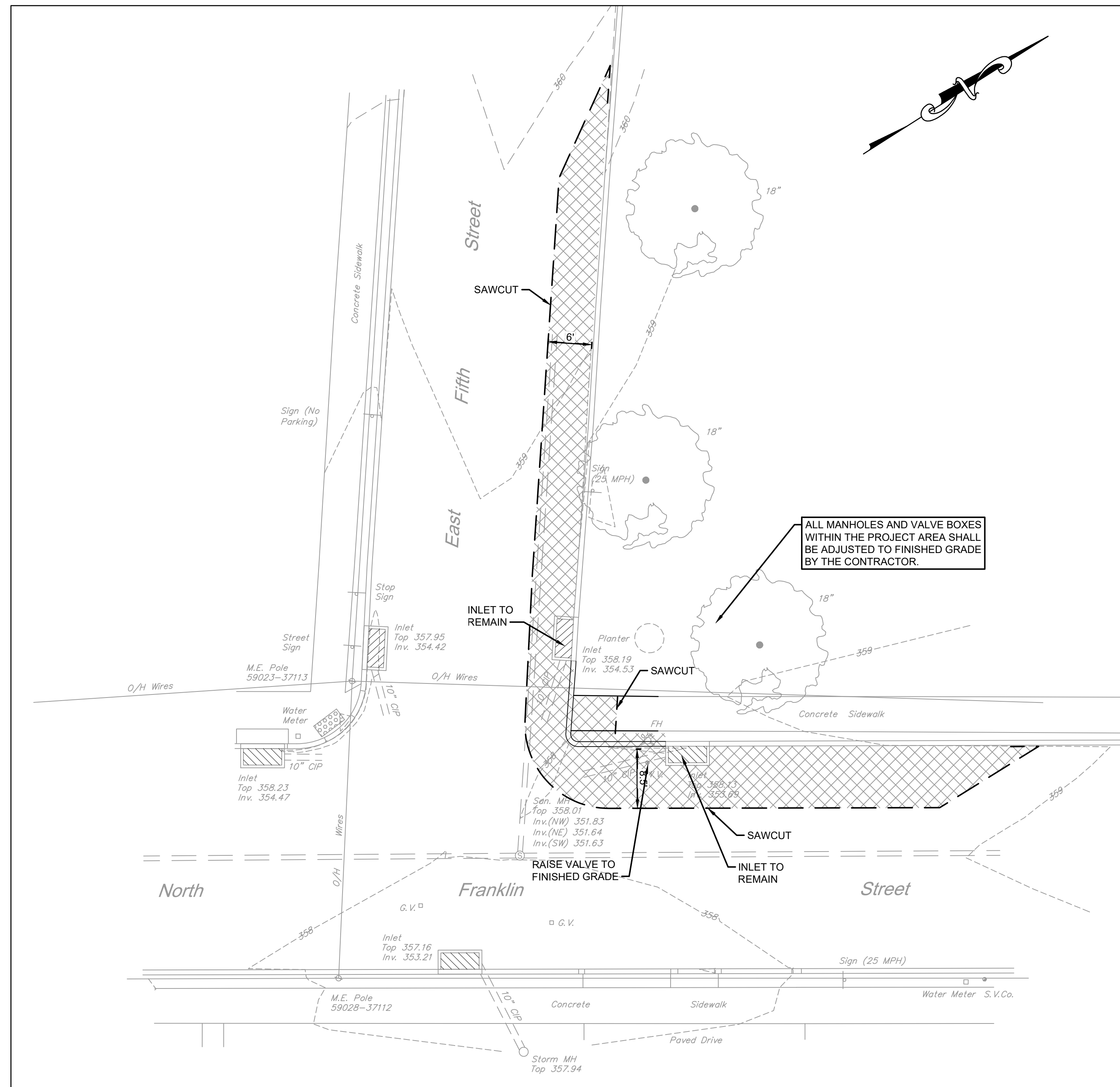
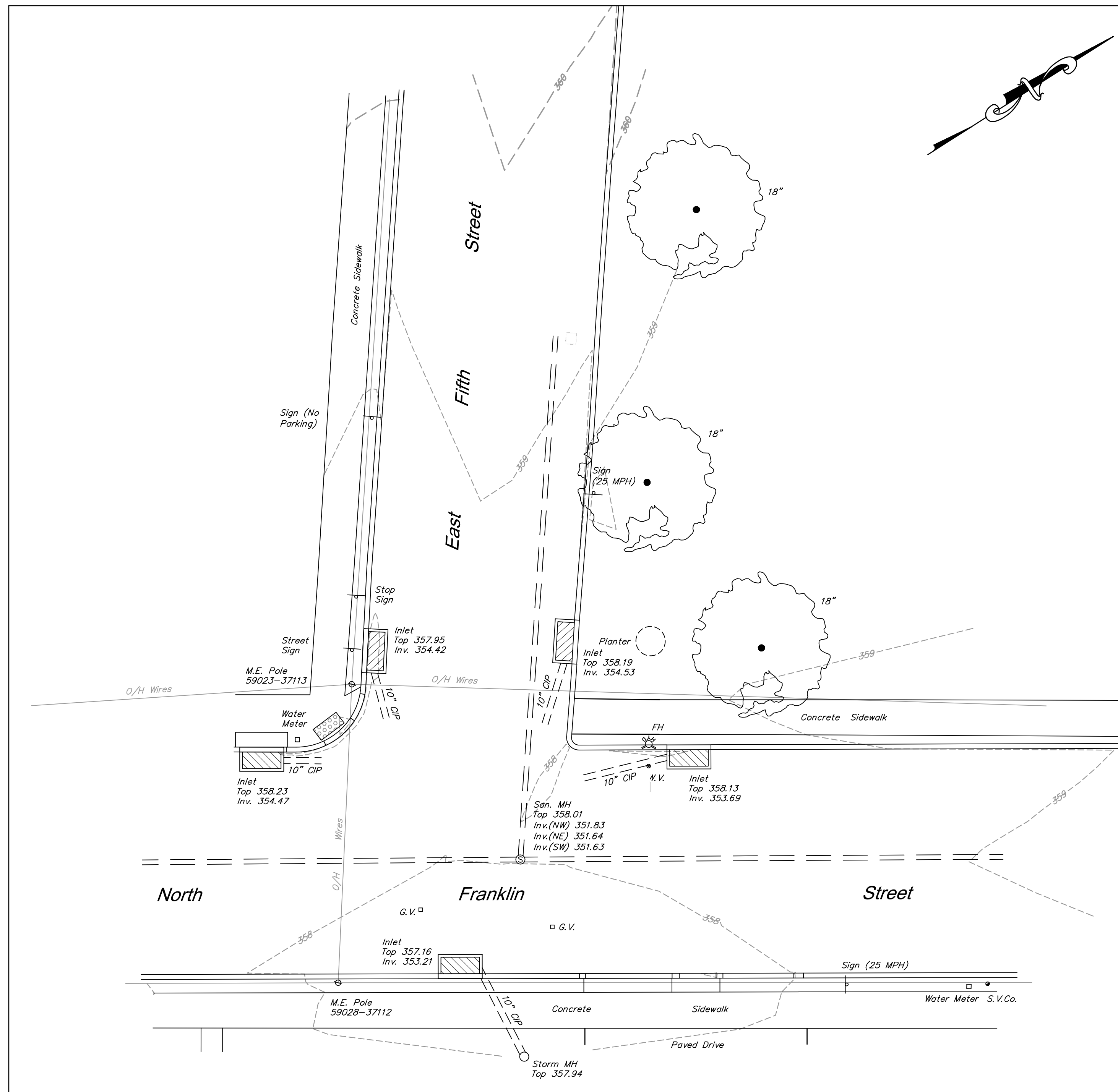
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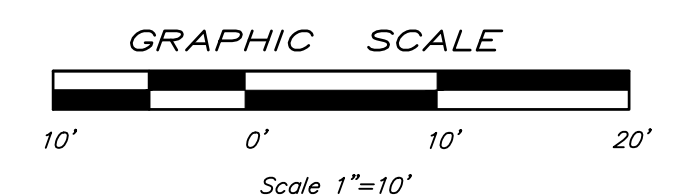
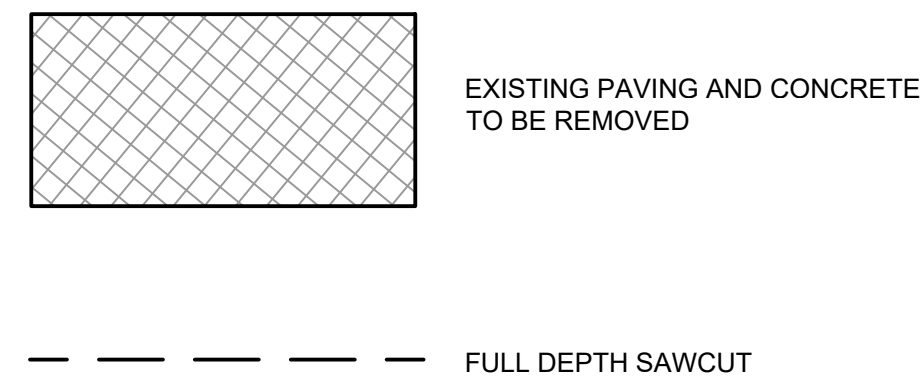
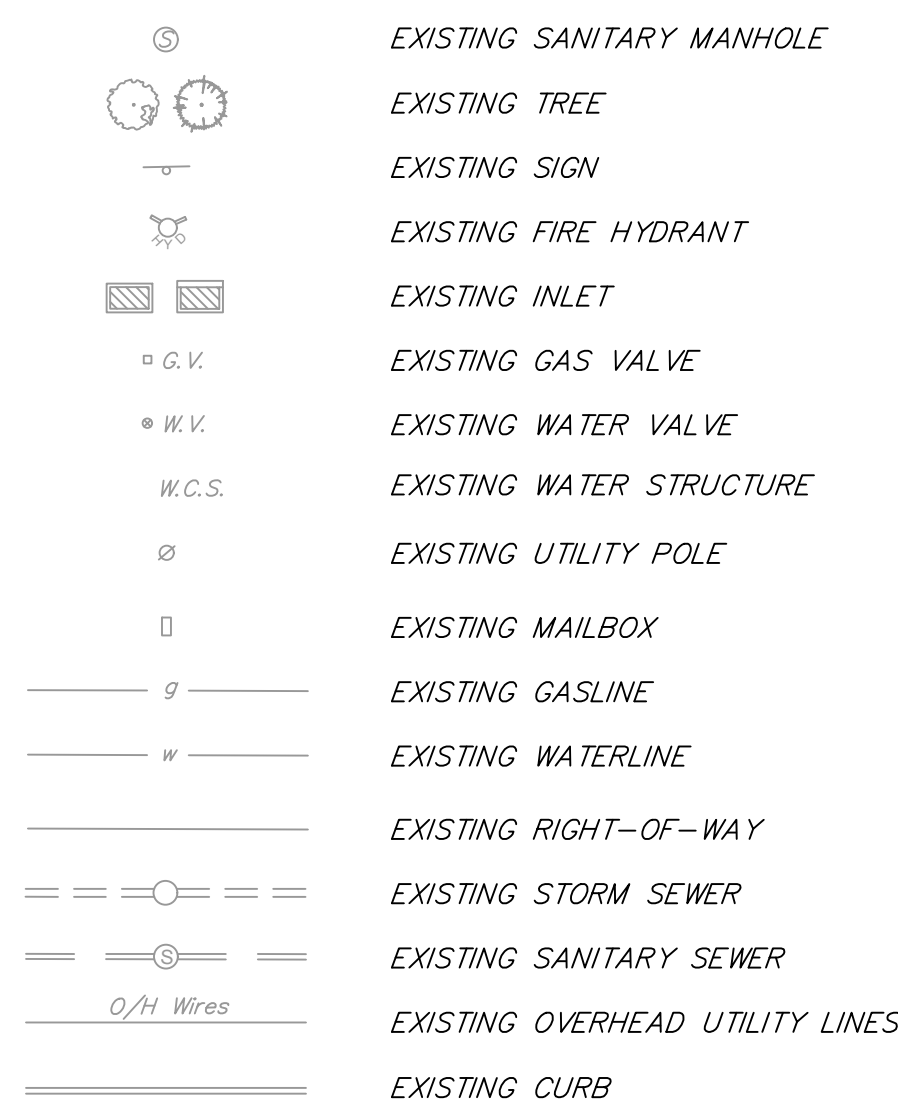
WORK ORDER NUMBER

C.1-12

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EXISTING LEGEND



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Romas Corporate Center, Suite 106
1605 N Cedar Crest Blvd
Allentown, PA 18104
610.849.3700

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RAIN GARDEN AND BUMP OUT PROJECT
N FRANKLIN AND E FIFTH STREET
EXISTING CONDITIONS AND DEMOLITION PLAN
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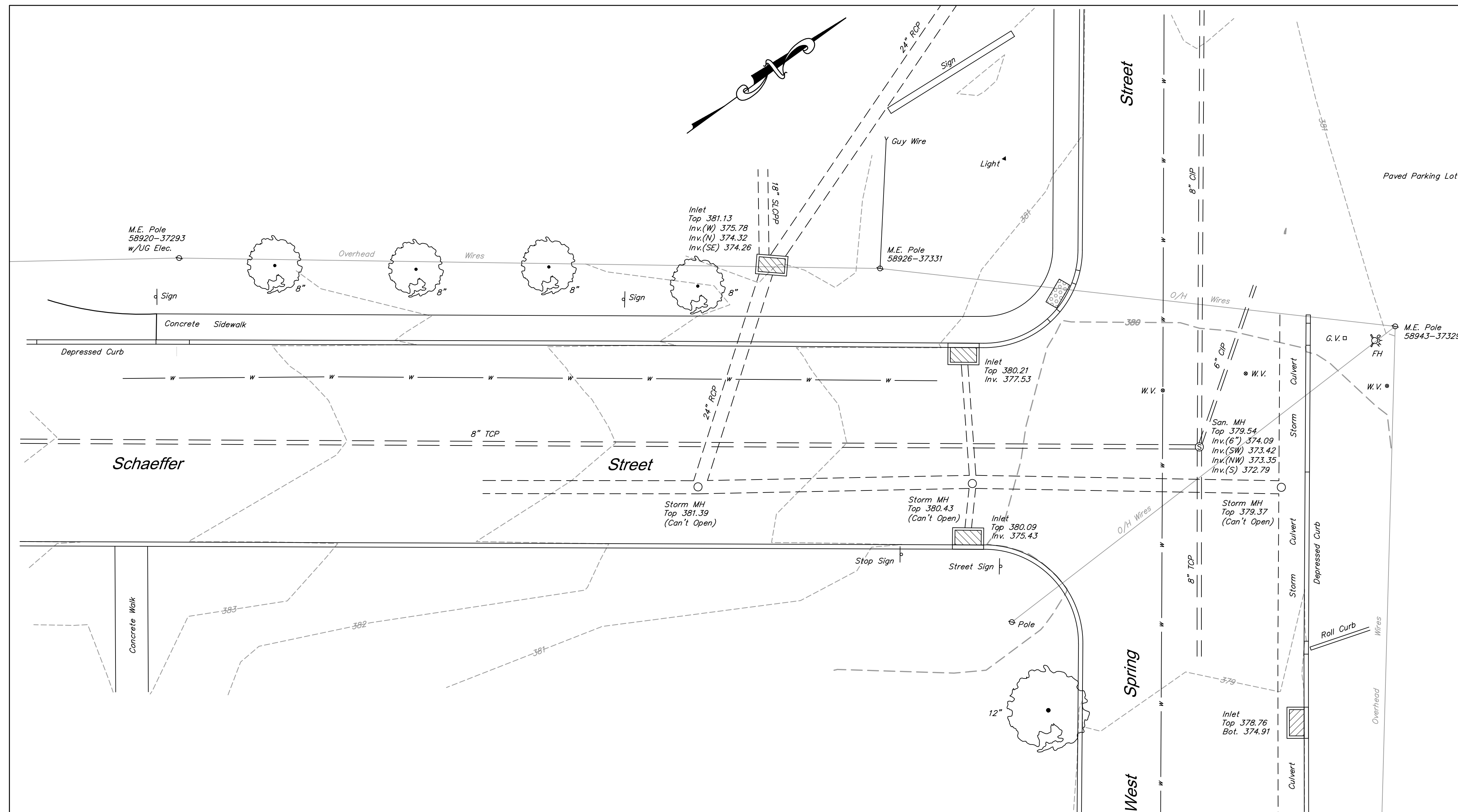
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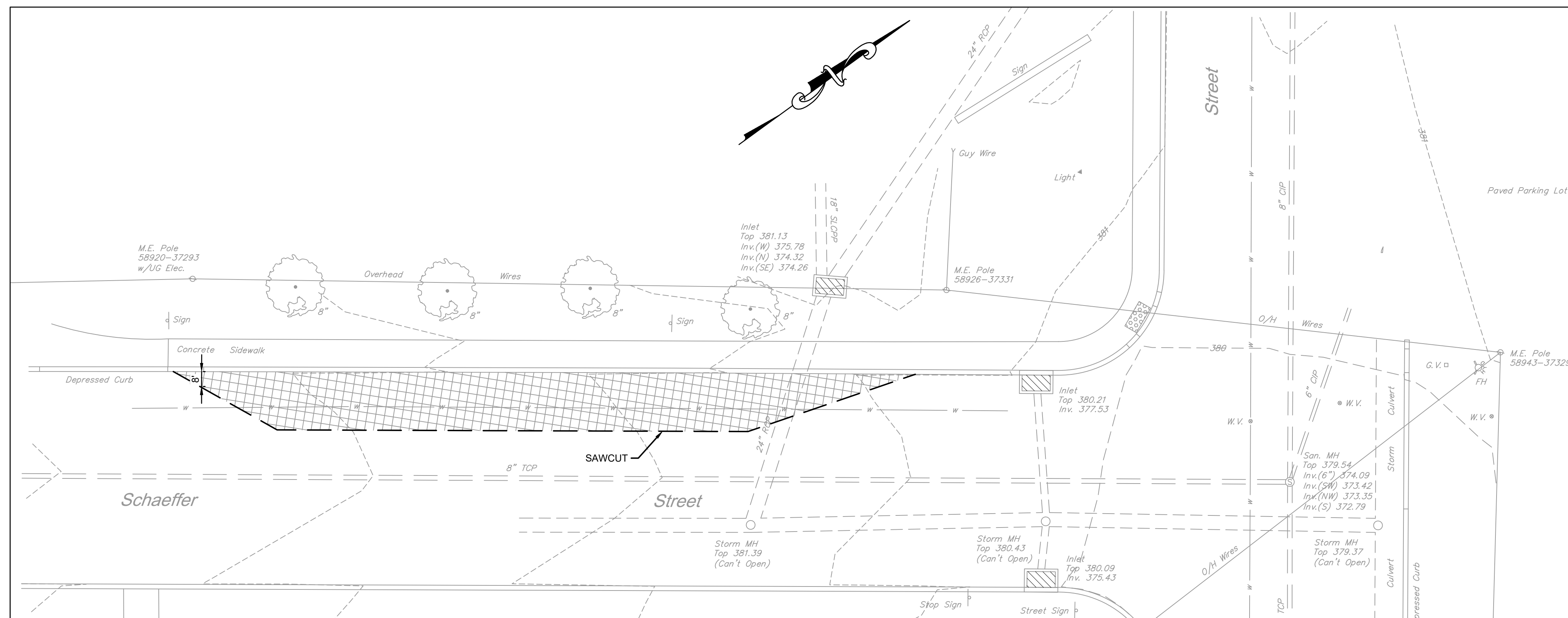
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C.1-50

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EXISTING CONDITIONS



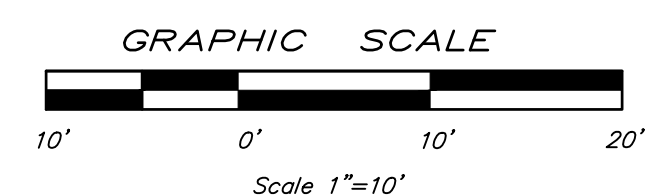
DEMOLITION

EXISTING LEGEND

- | | |
|---|---------------------------------|
|  | EXISTING SANITARY MANHOLE |
|  | EXISTING TREE |
|  | EXISTING SIGN |
|  | EXISTING FIRE HYDRANT |
|  | EXISTING INLET |
|  | EXISTING GAS VALVE |
|  | EXISTING WATER VALVE |
|  | EXISTING WATER STRUCTURE |
|  | EXISTING UTILITY POLE |
|  | EXISTING MAILBOX |
|  | EXISTING GASLINE |
|  | EXISTING WATERLINE |
|  | EXISTING RIGHT-OF-WAY |
|  | EXISTING STORM SEWER |
|  | EXISTING SANITARY SEWER |
|  | EXISTING OVERHEAD UTILITY LINES |
|  | EXISTING CURB |

EXISTING PAVING AND CONCRETE
TO BE REMOVED

FULL DEPTH SAWCUT

[illegible]

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READING
1047 North Park Road
Reading, PA 19610-0307
610.621.2000

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1701 Creekside Lane
Lititz, PA 17543
717.568.2878

LEHIGH VALLEY
Roma Corporate Center, Suite 105
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Allentown, PA 18104
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WEST CHESTER
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610.621.2000

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BERKS COUNTY, PENNSYLVANIA

RAIN GARDEN AND BUMP OUT PROJECT

SCHAEFFER AND W SPRING STREET

EXISTING CONDITIONS AND DEMOLITION PLAN

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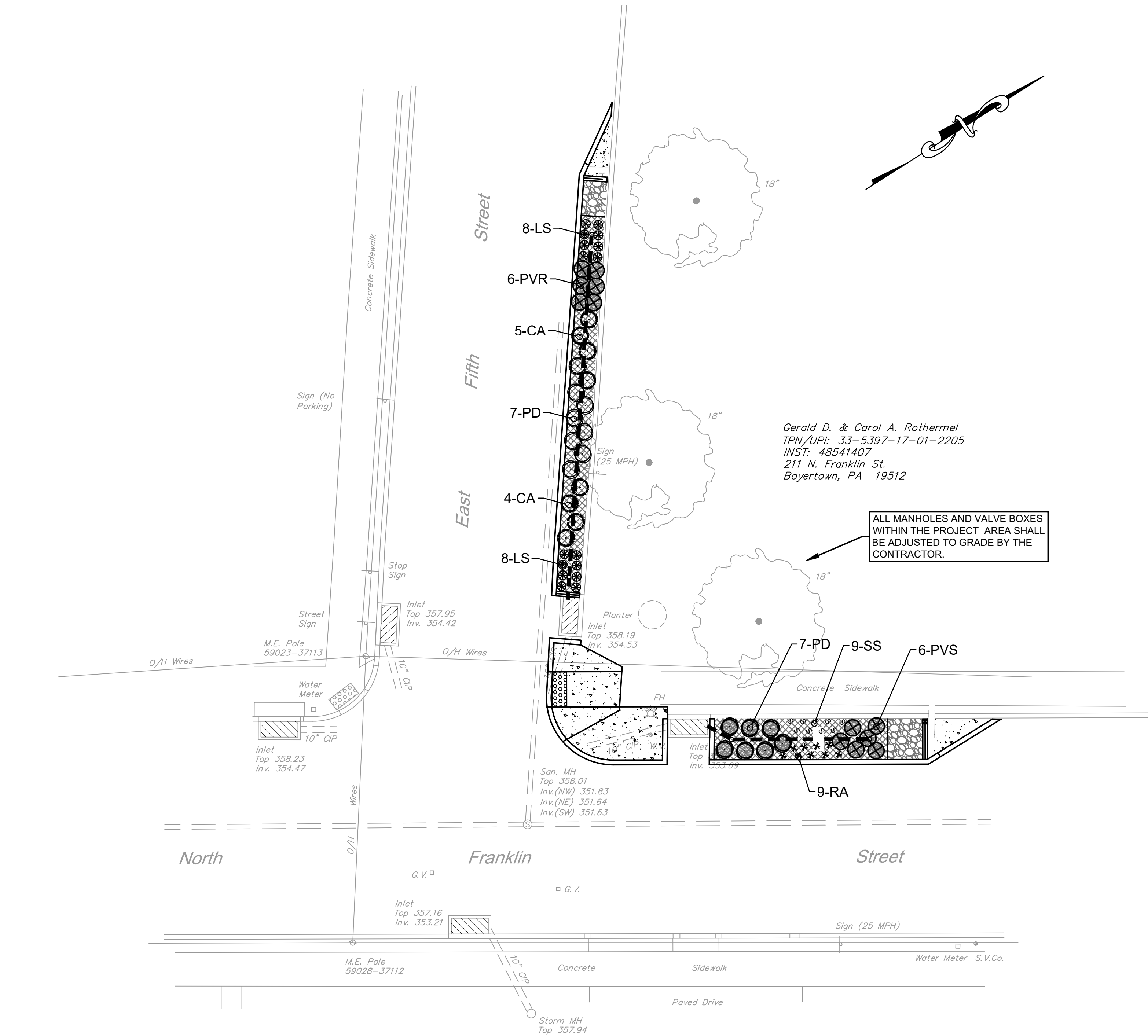
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WORK ORDER NUMBER

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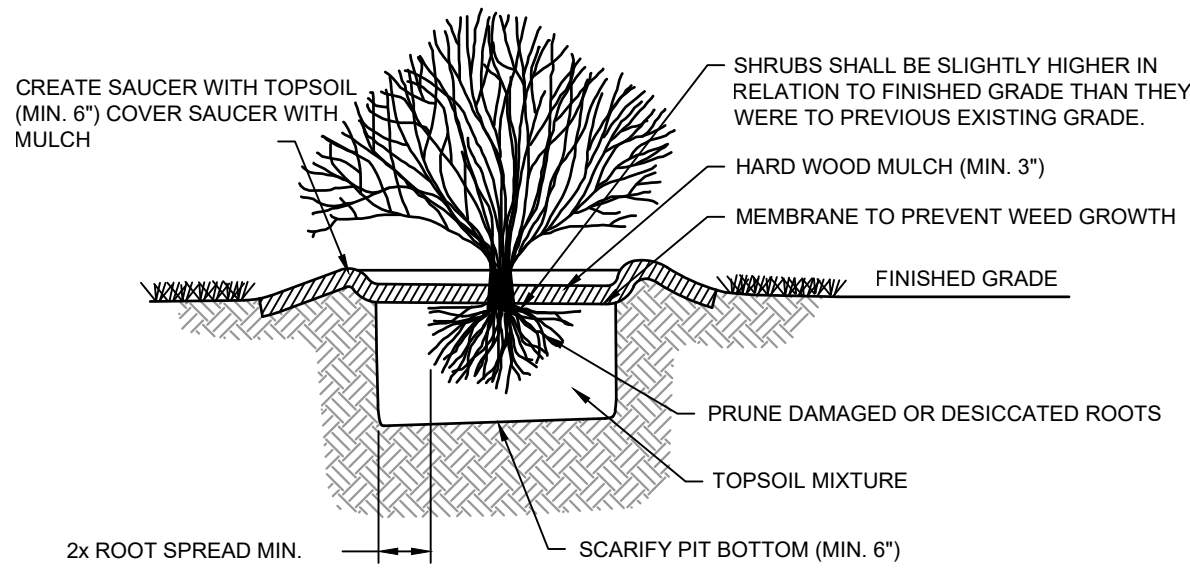
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- EXISTING CURB

PROPOSED LEGEND

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

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	

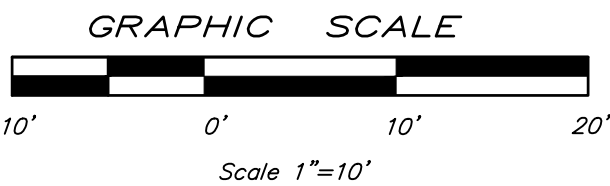


NOTES:

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

SHRUB PLANTING DETAIL

NO SCALE



RELEASED FOR:
CONSTRUCTION

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL ENGINEER
NICHOLAS A. SZERDAI
PE005674

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

READING
1047 North Park Road
P.O. Box 1000
LANCASTER, PA 17604
Phone: 717.399.1000
Fax: 717.399.1001
Email: info@ssmgroup.com

LEHIGH VALLEY
100 N. Cedar Crest Blvd.
PO Box 1000
Allentown, PA 18104
Phone: 610.486.0700
Fax: 610.486.0701
Email: info@ssmgroup.com

WEST CHESTER
100 N. Cedar Crest Blvd.
PO Box 1000
West Chester, PA 19380
Phone: 610.692.2000
Fax: 610.692.2001
Email: info@ssmgroup.com

BOROUGH OF BOYERTOWN
BERKS COUNTY, PENNSYLVANIA

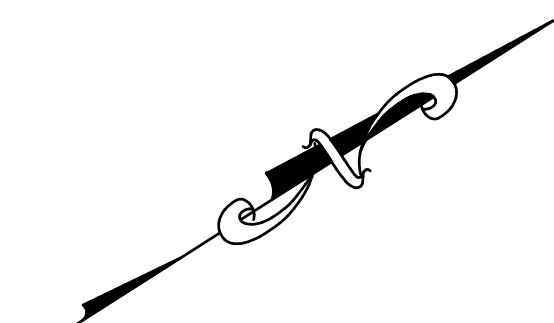
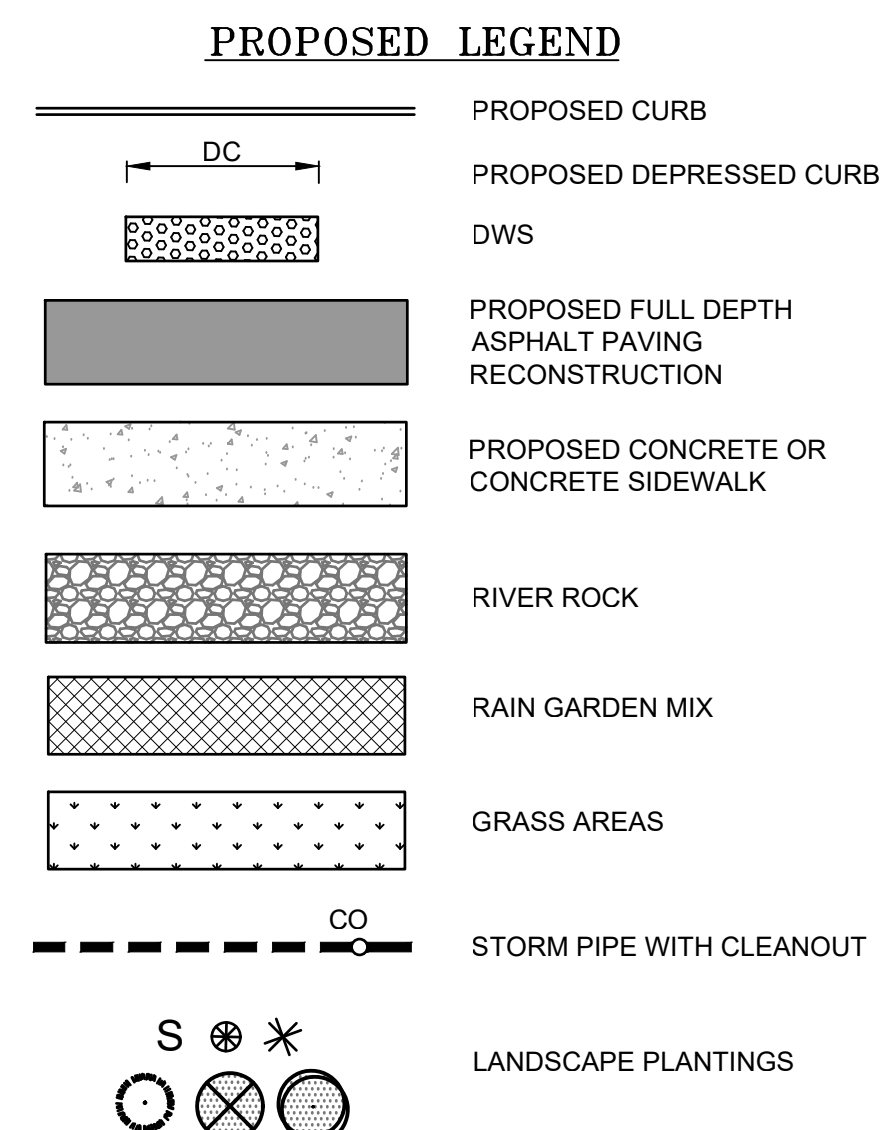
RAIN GARDEN AND BUMP OUT PROJECT
N FRANKLIN AND E FIFTH STREETS
LANDSCAPE PLAN

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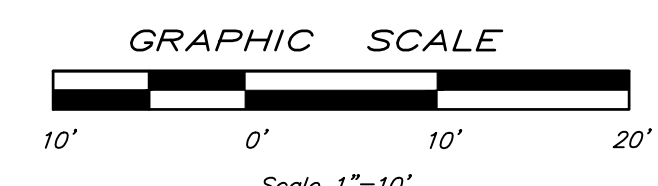
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DATE C-5-01

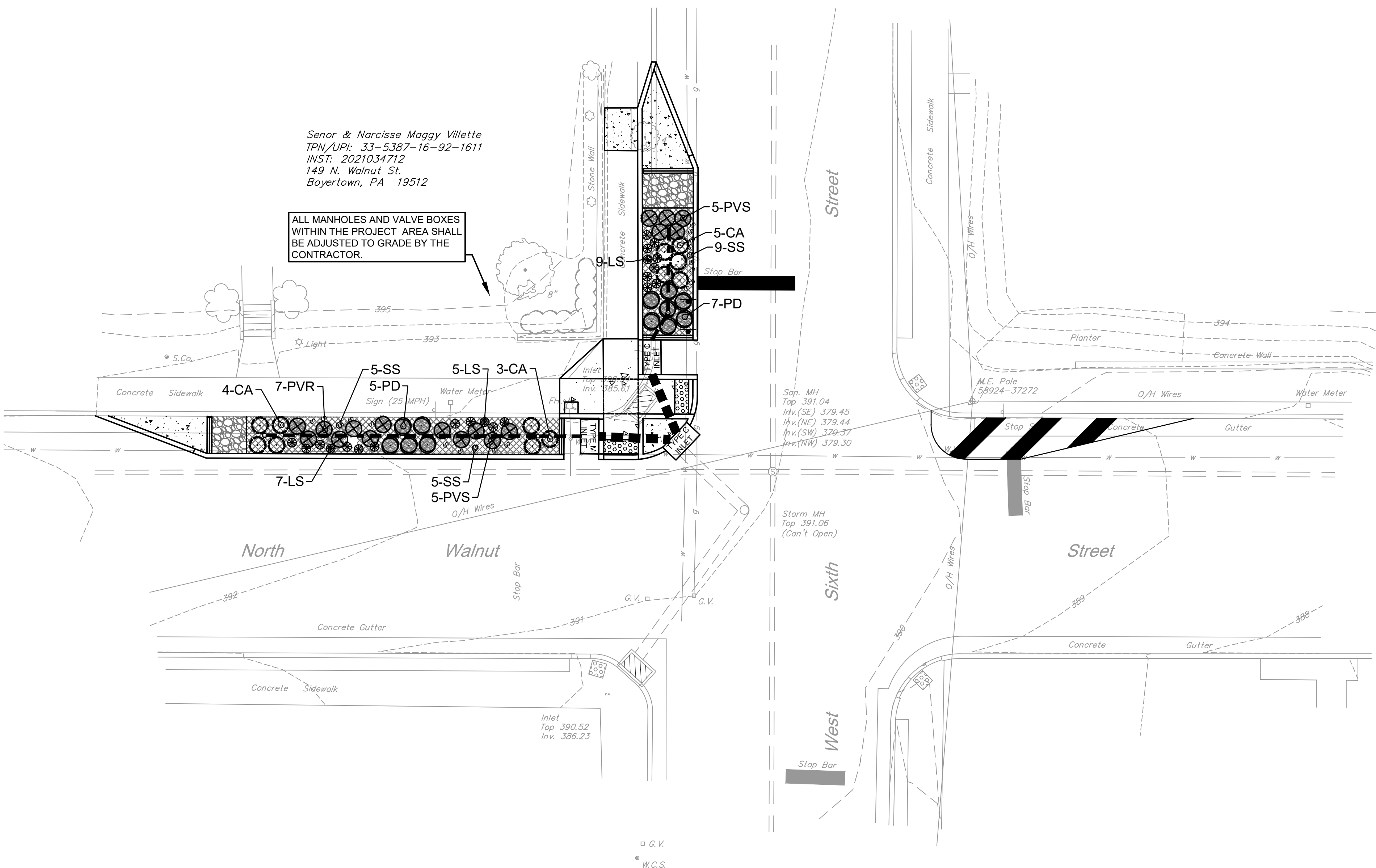
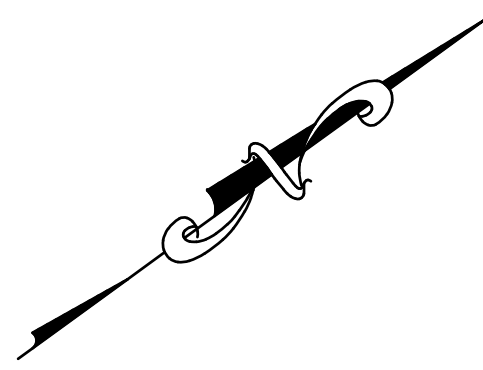
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WORK ORDER NUMBER

C.5-01
DRAWING NUMBER



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

[illegible]



Senor & Narcisse Maggy Villette
TPN/UPI: 33-5387-16-92-1611
INST: 2021034712
149 N. Walnut St.
Boertown, PA 19512

ALL MANHOLES AND VALVE BOXES
WITHIN THE PROJECT AREA SHALL
BE ADJUSTED TO GRADE BY THE
CONTRACTOR.

EXISTING LEGEND

- EXISTING SANITARY MANHOLE
- EXISTING TREE
- EXISTING SIGN
- EXISTING FIRE HYDRANT
- EXISTING INLET
- EXISTING GAS VALVE
- EXISTING WATER VALVE
- EXISTING WATER STRUCTURE
- EXISTING UTILITY POLE
- EXISTING MAILBOX
- EXISTING GASLINE
- EXISTING WATERLINE
- EXISTING RIGHT-OF-WAY
- EXISTING STORM SEWER
- EXISTING SANITARY SEWER
- EXISTING OVERHEAD UTILITY LINES
- EXISTING CURB

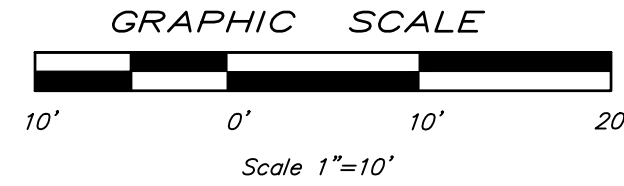
PROPOSED LEGEND

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

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



RELEASED FOR:
CONSTRUCTION



READING
LANCASTER
101 Chestnut Lane
Reading, PA 19602-0207
717-666-2078
FAX 717-666-2079
Mobile: 717-666-2078
Email: n.szereda@ssmgroup.com
NICHOLAS A. SZEREDA
Professional Engineer
State of Pennsylvania
License No. PE005674
101 East Evans Street
Reading, PA 19601
610-662-1200

BOROUGH OF BOYERTOWN
BERKS COUNTY, PENNSYLVANIA
RAIN GARDEN AND BUMP OUT PROJECT
N WALNUT AND W SIXTH STREETS
LANDSCAPE PLAN
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03/29/22 1051780024
DATE C.5-03
105178.0024
WORK ORDER NUMBER
C.5-03
DRAWING NUMBER

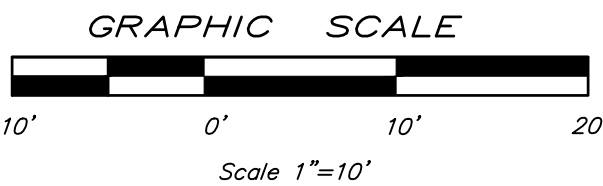
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2	06/13/22	PLAN REVISIONS 1	NS	NS	NS
1	05/02/22	ASBUILT FOR BIDDING	KKS	KKS	KKS
0	05/02/22	ISSUED FOR BIDDING	KKS	KKS	KKS
NO.	DATE	DESCRIPTION	MADE	CHKD	APVD

- EXISTING LEGEND**
- EXISTING SANITARY MANHOLE
 - EXISTING TREE
 - EXISTING SIGN
 - EXISTING FIRE HYDRANT
 - EXISTING INLET
 - EXISTING GAS VALVE
 - EXISTING WATER VALVE
 - EXISTING WATER STRUCTURE
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 - EXISTING SANITARY SEWER
 - EXISTING OVERHEAD UTILITY LINES
 - EXISTING CURB

- PROPOSED LEGEND**
- PROPOSED CURB
 - PROPOSED DEPRESSED CURB
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 - PROPOSED FULL DEPTH ASPHALT PAVING RECONSTRUCTION
 - PROPOSED CONCRETE OR CONCRETE SIDEWALK
 - RIVER ROCK
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 - GRASS AREAS
 - STORM PIPE WITH CLEANOUT
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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.



RELEASED FOR:
CONSTRUCTION

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL ENGINEER
NICHOLAS A. SZEREDAI
RE005674

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

READING
1047 North Park Road
P.O. Box 10007
Lancaster, PA 17602
610.657.2000
LEHIGH VALLEY
1801 Lehigh Valley Blvd.
Suite 108
Allentown, PA 18104
610.848.9700
WEST CHESTER
100 N. Center Street
Suite 108
West Chester, PA 19380
610.657.2000

BOROUGH OF BOYERTOWN
BERKS COUNTY, PENNSYLVANIA

RAIN GARDEN AND BUMP OUT PROJECT
SCHAEFFER AND W SPRING STREETS
LANDSCAPE PLAN

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03/29/22

1051780024
C.5-04

DATE

DIGITAL FILENAME

105178.0024

WORK ORDER NUMBER

C.5-04

DRAWING NUMBER

PROJECT MANAGER: KOM
BASE BY: HMM
DRAWN BY: KKS

DATE: 02/26/22
N.B.: -
DESIGNED BY: STM
CHKD: STM

PLAN REVISIONS 1
ADDENDUM 1
ISSUED FOR BIDDING

NOI

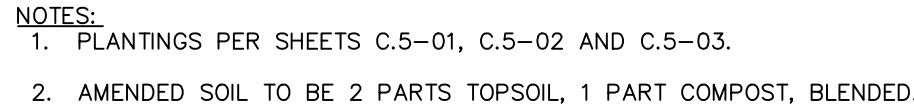
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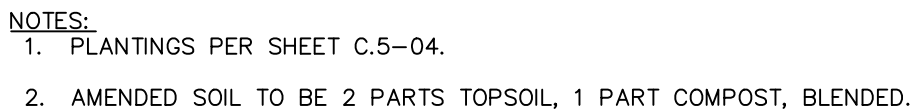
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CHKD

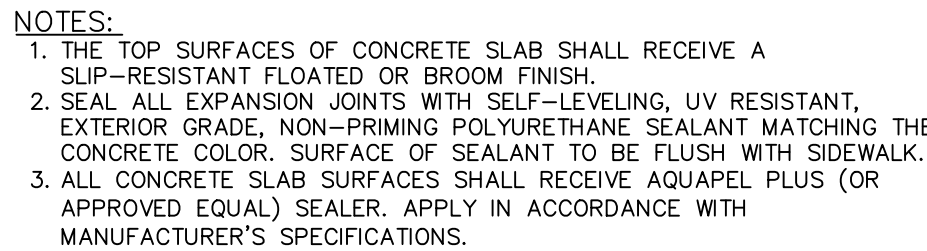
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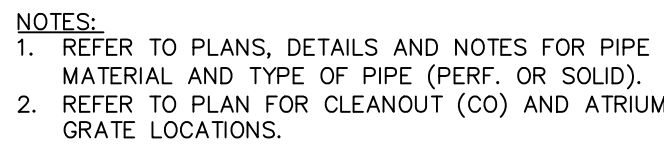
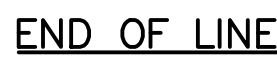
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NOT TO SCALE



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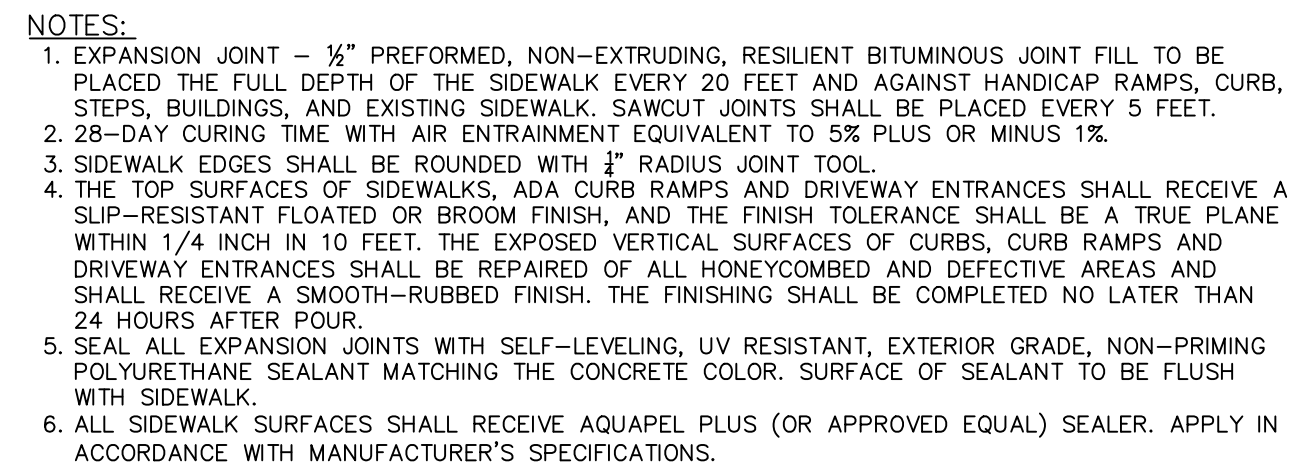
NOTES:

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 RESETTling 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 BE 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 PICHOLSES 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 SWPT / 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 (ASHTO 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.

1. ALL STORM STRUCTURES AND APPURTENANCES, PIPE MATERIALS AND CONSTRUCTION SHALL MEET CURRENT PENNDOT PUB. 408 AND STANDARDS FOR ROADWAY CONSTRUCTION (SPECIFICATIONS SERIES 800-100) SPECIFICATIONS, UNLESS OTHERWISE DICTATED BY MUNICIPAL SPECIFICATIONS. CODES OF ORDINANCE FOR MUNICIPAL 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.) AND PERMITS SHALL BE CONSIDERED. ALL CONSTRUCTION MEETS ALL PENNDOT SPECIFICATIONS PREVIOUSLY NOTED ON 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. SLCP 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 LB PIPE, HANCOR BLUE-SEAL PIPE, OR APPROVED EQUAL, UNLESS NOTED OTHERWISE. IF SPECIFIED, REINFORCED CONCRETE PIPE (RCP) SHALL BE CLASS 3, WALL B WITH 0-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 SOLD 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 CADDY POURED UNDER THE PIPE ON COMPACTED SUBGRADE FOR A DISTANCE OF 3 FEET.

03/29/22	1051780024 C.6-01
DATE	DIGITAL FILENAME
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WORK ORDER NUMBER	
C.6-01	
DRAWING NUMBER	



CROSS-COUNTRY INSTALLATIONS

MIN. 90% COMPACTION SPD

MIN. 95% COMPACTION SPD

UNCOMPACTIONED

TOPSOIL SUBGRADE ELEVATION
SUITABLE MATERIAL

12" MIN.

12" MIN.

12" MIN.

6" MIN.

W

PIPE SIZE

MIN. W

15" 40"

18" 45"

24" 54"

30" 60"

36" 66"

UNDER BITUMINOUS PAVED SURFACES

MIN. 97% COMPACTION SPD (SEE NOTE 1)

MIN. 95% COMPACTION SPD

UNCOMPACTIONED

COARSE AGGREGATE (NO. 2A)

SUBGRADE ELEVATION

12" MIN.

12" MIN.

12" MIN.

6" MIN.

W

DUMPED NO. 2A AGGREGATE

COARSE AGGREGATE (NO. 2A)

12" MIN.

12" MIN.

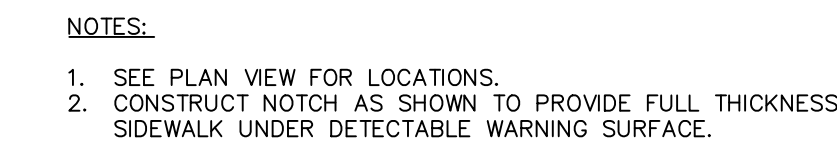
12" MIN.

6" MIN.

W

NOTES:

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



NO SCALE



TRANSITION CURB DETAIL

	DRAWING NUMBER
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