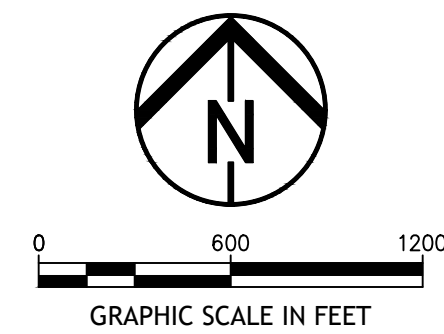
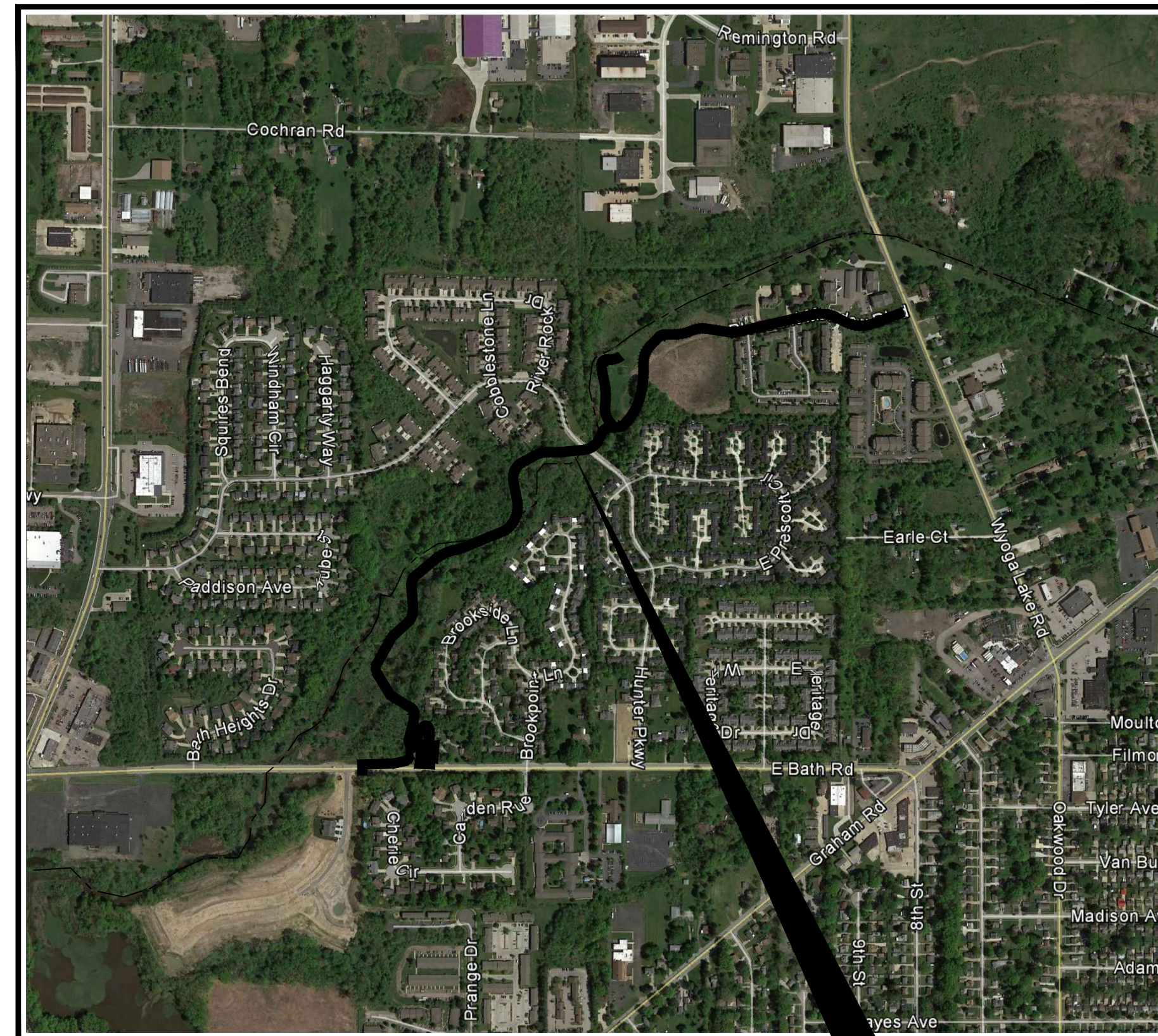


CITY OF CUYAHOGA FALLS MILL POND-MUD BROOK GREENWAY

SUMMIT COUNTY, OHIO
CITY OF CUYAHOGA FALLS PROJECT 14-00436-060
ISSUED: FEBRUARY 19, 2021

SITE PLAN LEGEND

EXISTING	PROPOSED	
— C — E —	— C — E —	CENTERLINE/BASELINE CONSTRUCTION
— — — — —	— — — — —	PROPERTY LINE
— Ex R/W —	— R/W —	RIGHT OF WAY
— — — — —	— — — — —	EASEMENT
— — — — —	— — — — —	SWALE
— 1000 —	— 1000 —	CONTOUR
— X" STM —	— ST X" STM ST —	STORM SEWER
— X" SAN —	— SA X" SAN SA —	SANITARY SEWER
— X" WTR W —	— W X" WTR —	WATER LINE
— WS —	— W —	WATER SERVICE
— G X" GAS —	— G X" GAS —	GAS LINE
— UGE —	— E —	ELECTRIC LINE, UNDERGROUND
— UGT —	— T —	TELEPHONE LINE, UNDERGROUND
— FOC —	— FOC —	FIBER OPTIC LINE, UNDERGROUND
— CATV —	— — — — —	CABLE LINE, UNDERGROUND
— OHE —	— UD — UD — UD — UD —	OVERHEAD ELECTRIC
□ ○	■ ● ●	CATCH BASIN, MANHOLE
⊕ ⊖	⊕ ⊖	MANHOLE ADJUSTED TO GRADE
WV ⊕ GV ⊖	WV ⊕	HYDRANT, HYDRANT ASSEMBLY
⊕ ⊖	WV ⊕	VALVE, WV=WATER VALVE GV=GAS VALVE
⊕ ⊖	⊕ ⊖	METER, E=ELECTRIC, G=GAS, W=WATER
⊕ ⊖	⊕ ⊖	ELECTRIC CABINET, PULL BOX, PEDESTAL, MANHOLE
⊕ ⊖	⊕ ⊖	TELEPHONE MANHOLE, UTILITY MARKER
⊕ ⊖	⊕ ⊖	POWER POLE, TELEPHONE POLE, COMBINATION POLE, LIGHT POLE
IPFO	IPS ●	IRON PIN/PIPE FOUND, IRON PIN SET
MON □	MON ■	MONUMENT BOX
— — — — —	— — — — —	SIGN
— — — — —	— — — — —	MAILBOX
— — — — —	— — — — —	FLAG POLE, DECORATIVE/YARD LIGHT
— — — — —	— — — — —	TREE, SHRUB LINE, TREE LIMBED AND ROOT PRUNED
— — — — —	— — — — —	TREE REMOVED
— — — — —	— — — — —	EXISTING WETLAND



LOCATION MAP

PROJECT LOCATION

221 E BATH ROAD,
CUYAHOGA FALLS

INDEX OF DRAWINGS

TITLE SHEET	1
INDEX MAP	2
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DEMOLITION PLANS	7-11
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LAYOUT & GRADING PLANS	14-19
PARKING LOT ENLARGEMENTS	20-21
SWPP PLANS	22-28
LANDSCAPE PLAN	29
CONSTRUCTION DETAILS	30-35

APPROVALS:

CITY OF CUYAHOGA FALLS

Donald S. Walters
MAYOR

3/9/2021
Date

Tony V. Demasi
CITY ENGINEER

3/9/2021
Date

PLANS PREPARED AND RECOMMENDED BY:



450 GRANT STREET
AKRON, OH 44311
T: 330.375.1390
F: 330.375.1590
WWW.ENVDESIGNGROUP.COM

806 LITERARY ROAD
2ND FLOOR, SUITE 206
CLEVELAND, OH 44113

BY: *Katherine Gluntz Holmok* DATE: 2/19/2021

KATHERINE GLUNTZ HOLMOK
REGISTERED LANDSCAPE ARCHITECT NO. 1045
STATE OF OHIO



REVISED:

SET NO. _____

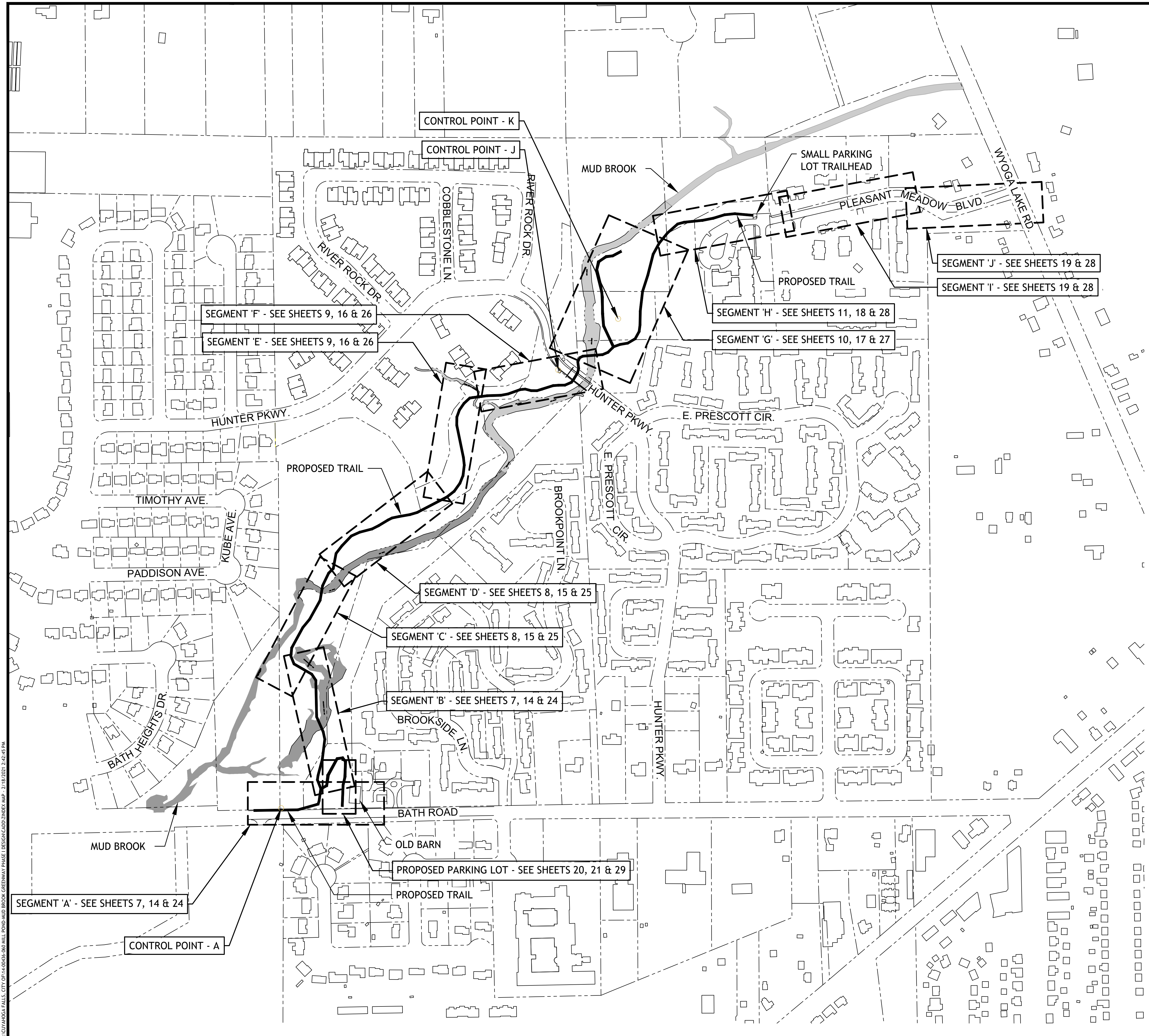
2019 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THESE PLAN BID DOCUMENTS SHALL GOVERN THIS IMPROVEMENT. FOR PURPOSES OF THIS PLAN, REFERENCES TO DIRECTOR OR ENGINEER SHALL BE CONSTRUED TO MEAN THE CITY ENGINEER AND/OR HIS REPRESENTATIVES.



Know what's below.
Call before you dig.

PROJ. NUMBER	14-00436-060	TITLE SHEET	SHEET 1 OF 35
DESIGNED BY:	RB		
DRAWN BY:	RB		
FILE NO.	ZTITL 14-00436-060.dwg		



SURVEY BENCHMARKS

CP-A
N 545199.26
E 2242881.10
975.09

CP-J
N 546976.84
E 2244004.76
986.32

CP-K
N 547184.53
E 2244247.45
971.97

SEGMENT 'F' - SEE SHEETS 9, 16 & 26
SEGMENT 'E' - SEE SHEETS 9, 16 & 26

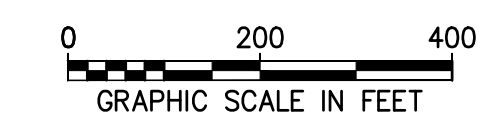
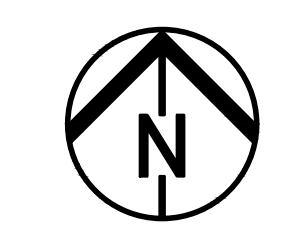
SEGMENT 'H' - SEE SHEETS 11, 18 & 28
SEGMENT 'G' - SEE SHEETS 10, 17 & 27

SEGMENT 'J' - SEE SHEETS 19 & 28
SEGMENT 'I' - SEE SHEETS 19 & 28

SEGMENT 'D' - SEE SHEETS 8, 15 & 25
SEGMENT 'C' - SEE SHEETS 8, 15 & 25
SEGMENT 'B' - SEE SHEETS 7, 14 & 24

SEGMENT 'A' - SEE SHEETS 7, 14 & 24

PROPOSED PARKING LOT - SEE SHEETS 20, 21 & 29



MILL POND-MUD BROOK GREENWAY
CITY OF CUYAHOGA FALLS



BID SET

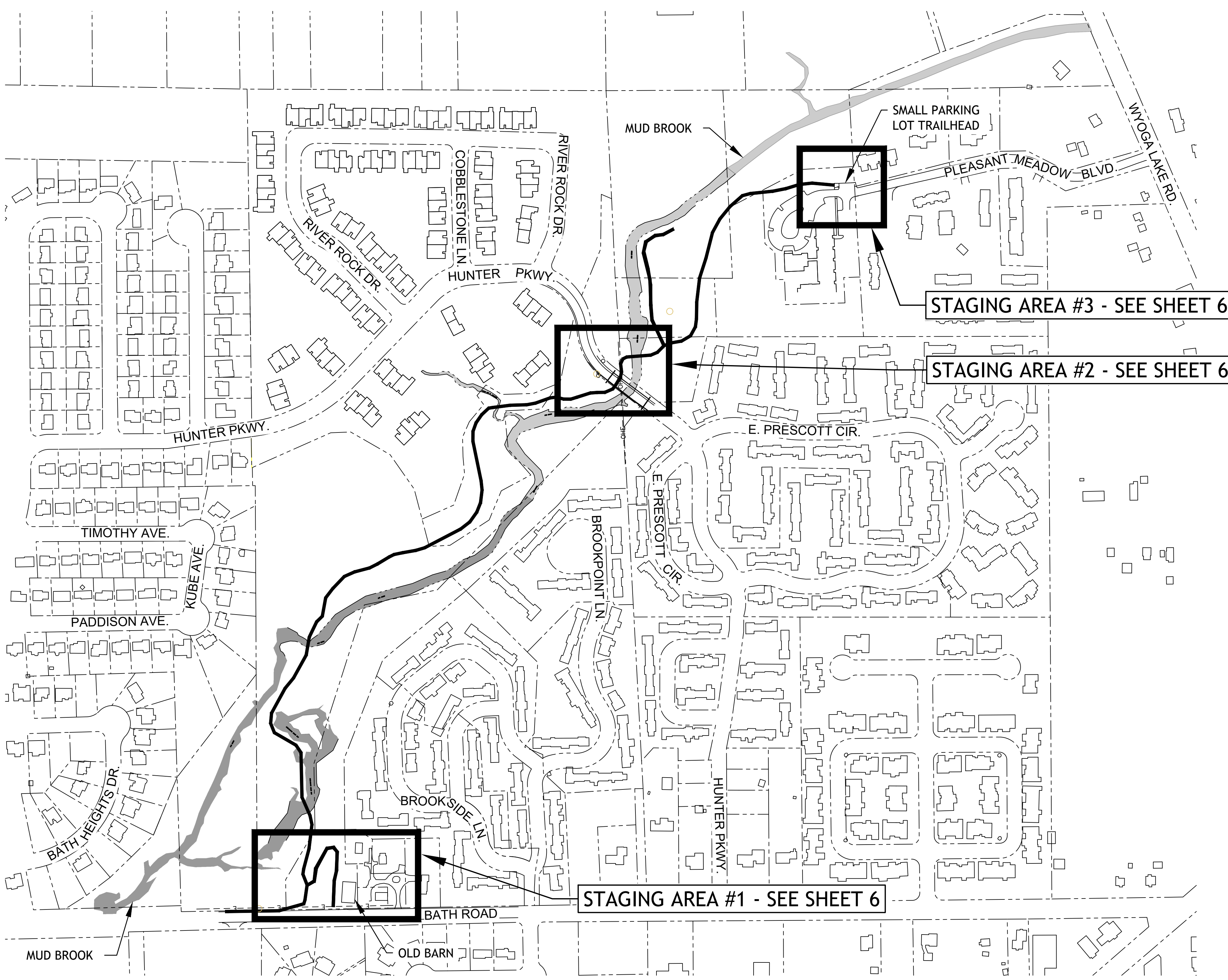
DATE:

REVISIONS		
△	DATE	DESCRIPTION

PROJECT NO.: 14-00436-060
DRAWN BY: RB
CHECKED BY: KGH
DATE ISSUED: 2/19/2021

INDEX MAP

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MILL POND-MUD BROOK GREENWAY
 CITY OF CUYAHOGA FALLS



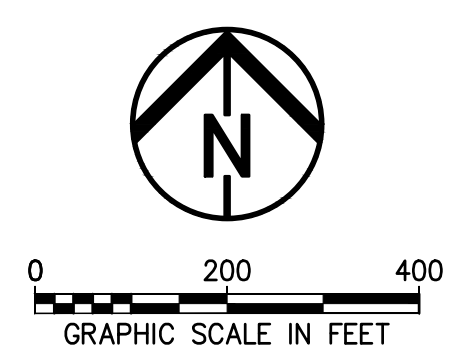
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STAGING & MOT



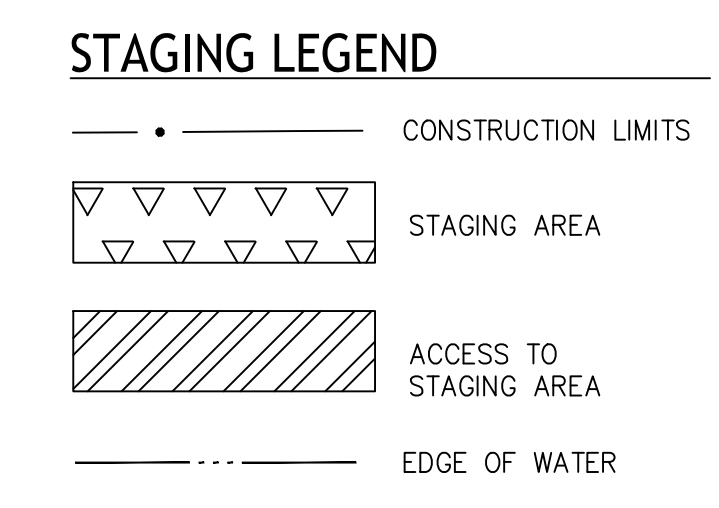
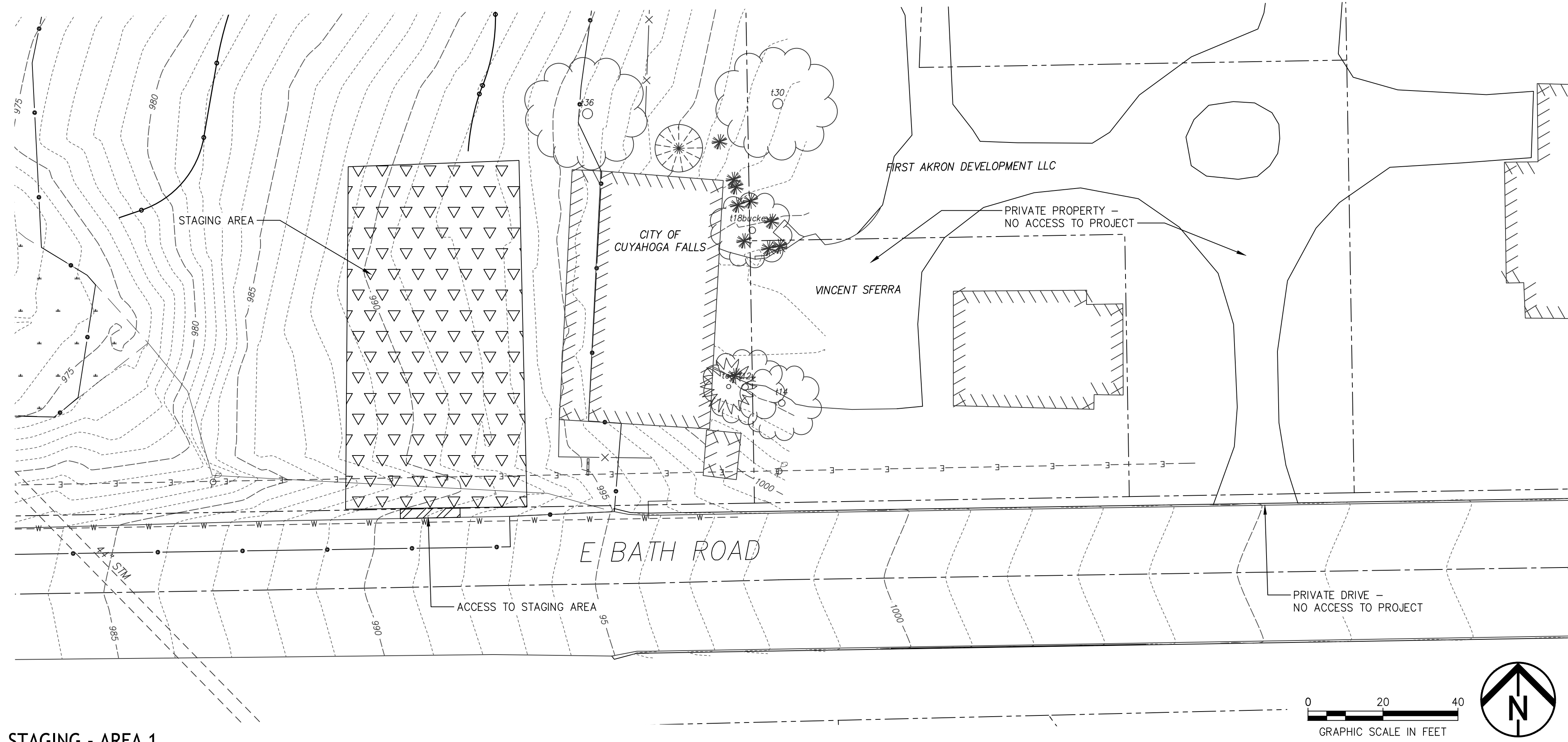
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MAINTENANCE OF TRAFFIC:

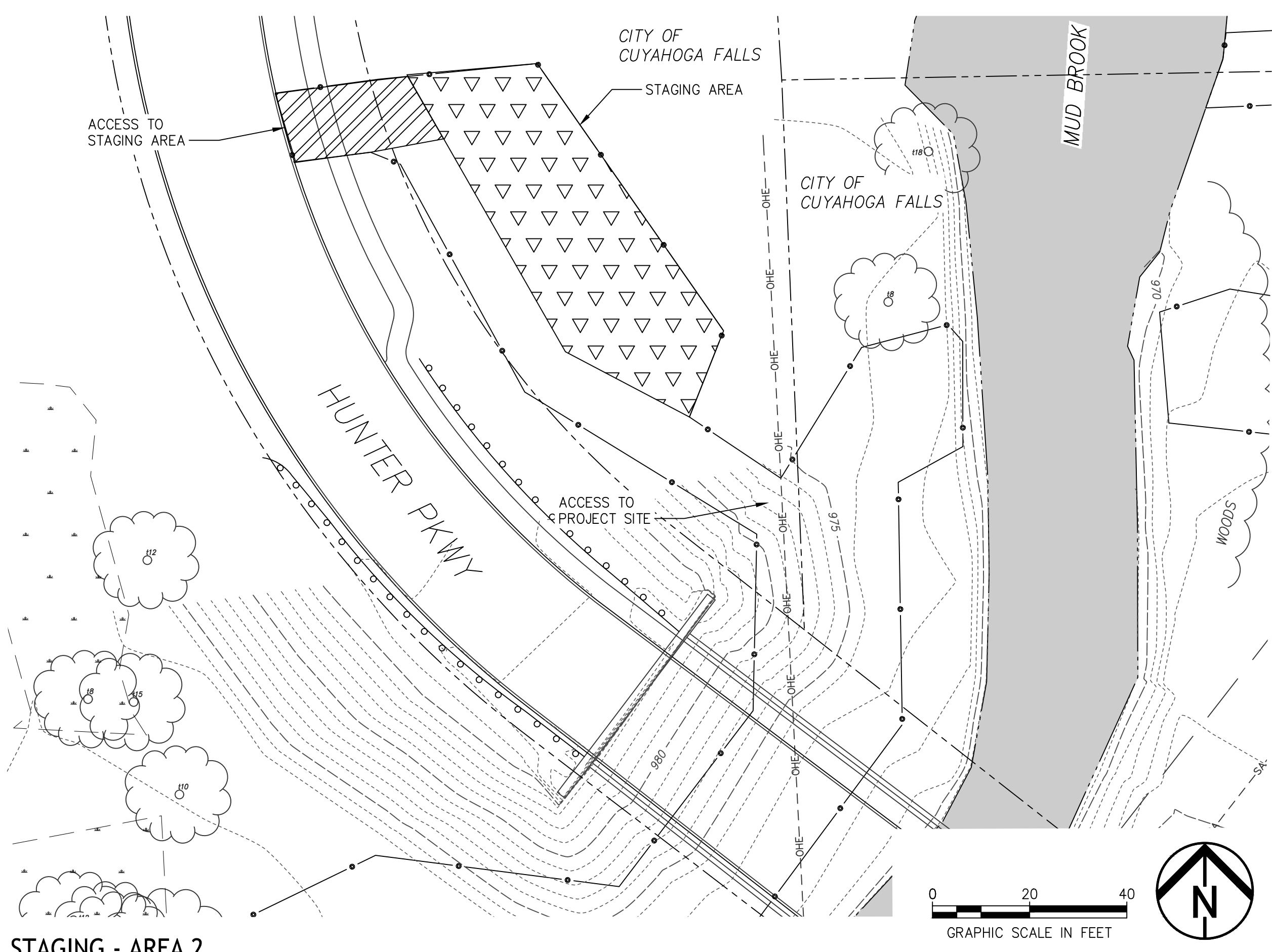
THIS WORK CONSISTS OF THE MAINTENANCE OF TRAFFIC AND THE PROTECTION OF THE TRAVELING PUBLIC APPROACHING THE CONSTRUCTION AREA AND WITHIN THE LIMITS OF CONSTRUCTION.

- FURNISH, ERECT, PLACE AND MAINTAIN TRAFFIC CONTROL SIGNS AND DEVICES AND MAINTAIN TRAFFIC DURING THE HOURS OF CONSTRUCTION AND AT ALL OTHER TIMES IN ACCORDANCE WITH THE METHODS INDICATED ON THESE DRAWINGS AND:
 - THE SPECIAL PROVISION OF THE CONTRACT
 - ODOT CMS 2019 SPECIFICATIONS
 - CITY OF CUYAHOGA FALLS
 - U.S. DEPARTMENT OF TRANSPORTATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, 2009 EDITION AND ALL SUPPLEMENTS APPLICABLE TO THE WORK DATED TO THE DATE OF ADVERTISEMENT.
- UNLESS OTHERWISE NOTED AND EXCEPT FOR REGULATORY SIGNS, (SERIES R), ALL SIGNS HAVE A NON-REFLECTORIZED BLACK LEGEND AND RETRO-REFLECTIVE ORANGE BACKGROUND.
- MOUNTING OF ALL SIGNS AND BARRICADES SHALL BE IN ACCORDANCE WITH ODOT CMS 2019 AND AS PER CITY OF CUYAHOGA FALLS CODES.
- REMOVE ALL EXISTING SIGNS AS REQUIRED TO ACCOMMODATE CONSTRUCTION OPERATIONS. REINSTALL THESE SIGNS AT THE COMPLETION OF THE PROJECT AND/OR AS DIRECTED BY THE ENGINEER.
- THIS TRAFFIC CONTROL PLAN DOES NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY FOR TRAFFIC CONTROL AS PER ODOT CMS 2019 AND CITY OF CUYAHOGA FALLS CODES.
- NOTIFY THE CITY OF CUYAHOGA FALLS (10) DAYS IN ADVANCE OF DRIVEWAY RESTRICTIONS. COORDINATE LOCATION OF ANY TRAFFIC CONTROL DEVICES LOCATED ON THE PROPERTY WITH THE CITY OF CUYAHOGA FALLS.

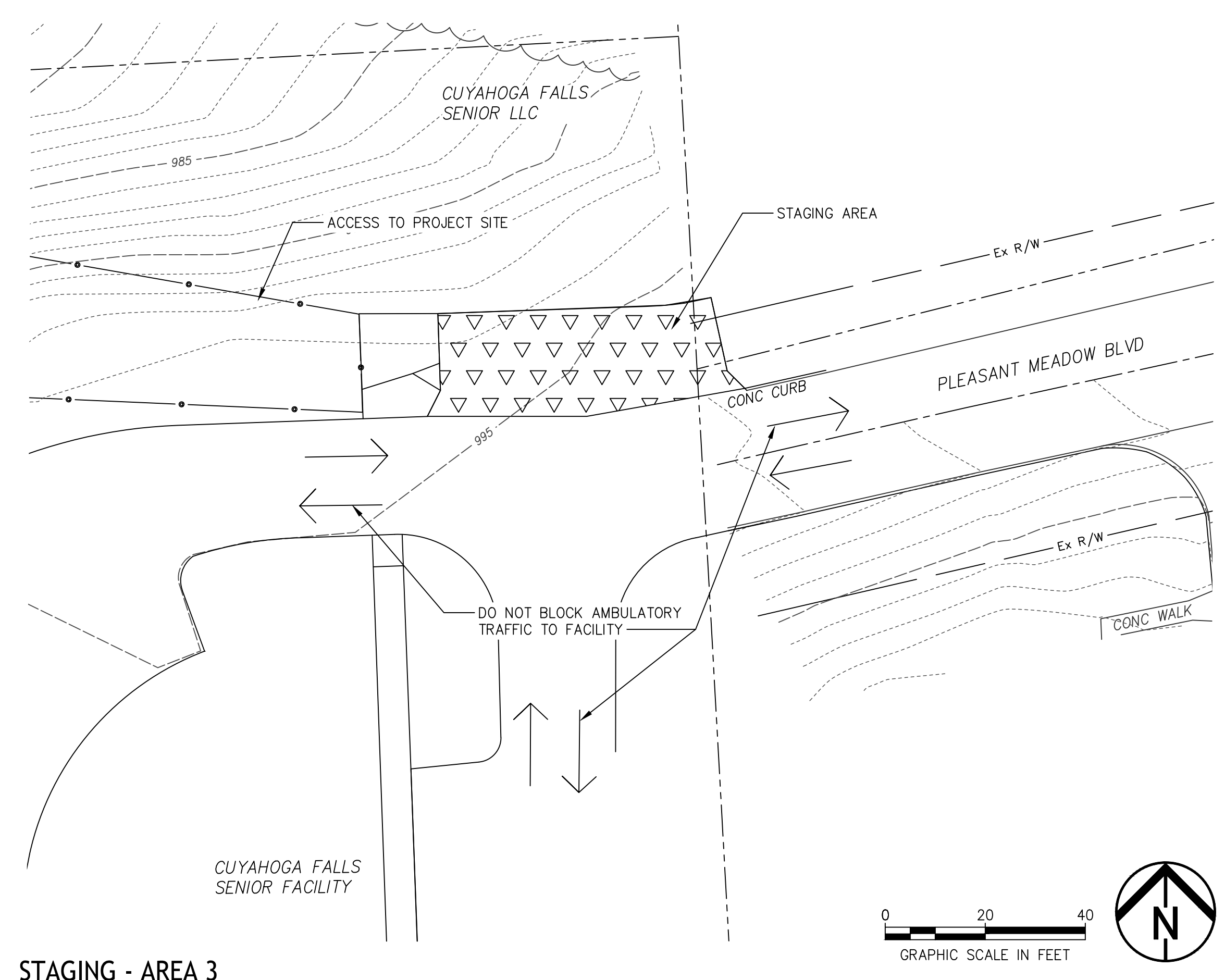
- PROVIDE SUFFICIENT NUMBER OF PROPERLY ATTIRED FLAGGERS (VEST, HARD HAT, ETC.) TO ADEQUATELY CONTROL TRAFFIC FLOW THROUGH THE WORK ZONE AS REQUIRED BY THE CITY OF CUYAHOGA FALLS, WHICH INCLUDES ANY INTERSECTING STREETS IN THE WORK ZONE AND AS DIRECTED.
- LIMIT ANY LANE CLOSURE TO THE LENGTH NECESSARY TO SAFELY PERFORM THE REQUIRED WORK. AT NO TIME SHALL COMPLETE STREET CLOSURE BE INSTITUTED.
- AT THE END OF EACH WORKDAY AND WHENEVER PRACTICAL DURING THE WORKDAY, EQUIPMENT, VEHICLES AND MATERIALS SHALL BE STORED A MINIMUM OF 10 FEET FROM THE EDGE OF THE NEAREST OPEN TRAVEL LANE OR THEY SHALL BE ADEQUATELY STORED WITHIN THE CONSTRUCTION LIMITS. IF EQUIPMENT, VEHICLES AND MATERIALS CANNOT BE STORED AS DESCRIBED ABOVE, OR IF THESE ITEMS ARE PLACED FOR USE ON OR NEAR THE ROADWAY WITHIN THE WORK ZONE, BARRICADED, DRUMS OR OTHER PROTECTIVE DEVICES SHALL BE PLACED AROUND THE EQUIPMENT, VEHICLES AND STORAGE SITE TO WARN AND PROTECT THE TRAVELING PUBLIC.
- DO NOT ALLOW EMPLOYEES TO PARK THEIR PERSONAL VEHICLES ON ANY TRAVEL LAND, SHOULDER, OR SEEDED AREA ALONG THE ROADWAY.
- IMMEDIATELY UPON COMPLETION OF THE WORK, REMOVE THE MAINTENANCE OF TRAFFIC DEVICES.
- ALL WORKERS SHALL WEAR THE YELLOW/GREEN ANSI 11 VESTS.
- NOTIFY THE CITY OF CUYAHOGA FALLS ENGINEER TEN (10) DAYS IN ADVANCE OF ANY SIGNAGE INTENDED TO BE PLACED.
- MAINTAIN A MINIMUM OF TWO 10-FOOT TRAVEL LANES ON ALL STREETS AT ALL TIMES, EXCEPT THAT TWO 8-FOOT LANES MAY BE MAINTAINED IF ONGOING CONSTRUCTION REQUIRE IT. A SINGLE 11-FOOT LANE MAY BE MAINTAINED USING FLAGGERS IN ACCORDANCE WITH ODOT CMS 2019 AND CIT OF CUYAHOGA FALLS CODE.
- NOTIFY CITY OF CUYAHOGA FALLS PRIOR TO CONSTRUCTION. CITY OF CUYAHOGA FALLS TO PROVIDE CONSTRUCTION/PERMIT APPROVAL OF ALL WORK.



STAGING - AREA 1



STAGING - AREA 2



STAGING - AREA 3



MILL POND-MUD BROOK GREENWAY
 CITY OF CUYAHOGA FALLS



BID SET

DATE: _____

REVISIONS		
Δ	DATE	DESCRIPTION

PROJECT NO.: 14-00436-060
 DRAWN BY: RB
 CHECKED BY: KGH
 DATE ISSUED: 2/19/2021

STAGING

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MILL POND-MUD BROOK GREENWAY
 CITY OF CUYAHOGA FALLS



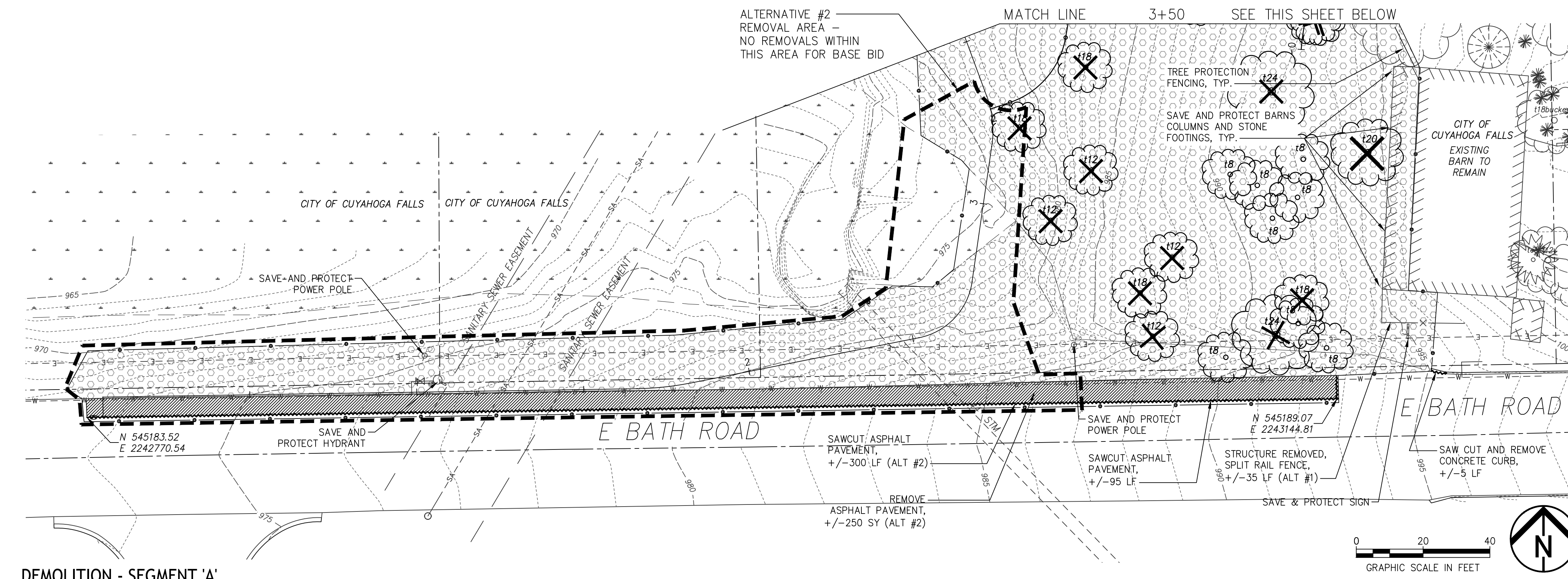
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DEMOLITION PLAN - 'A' & 'B'



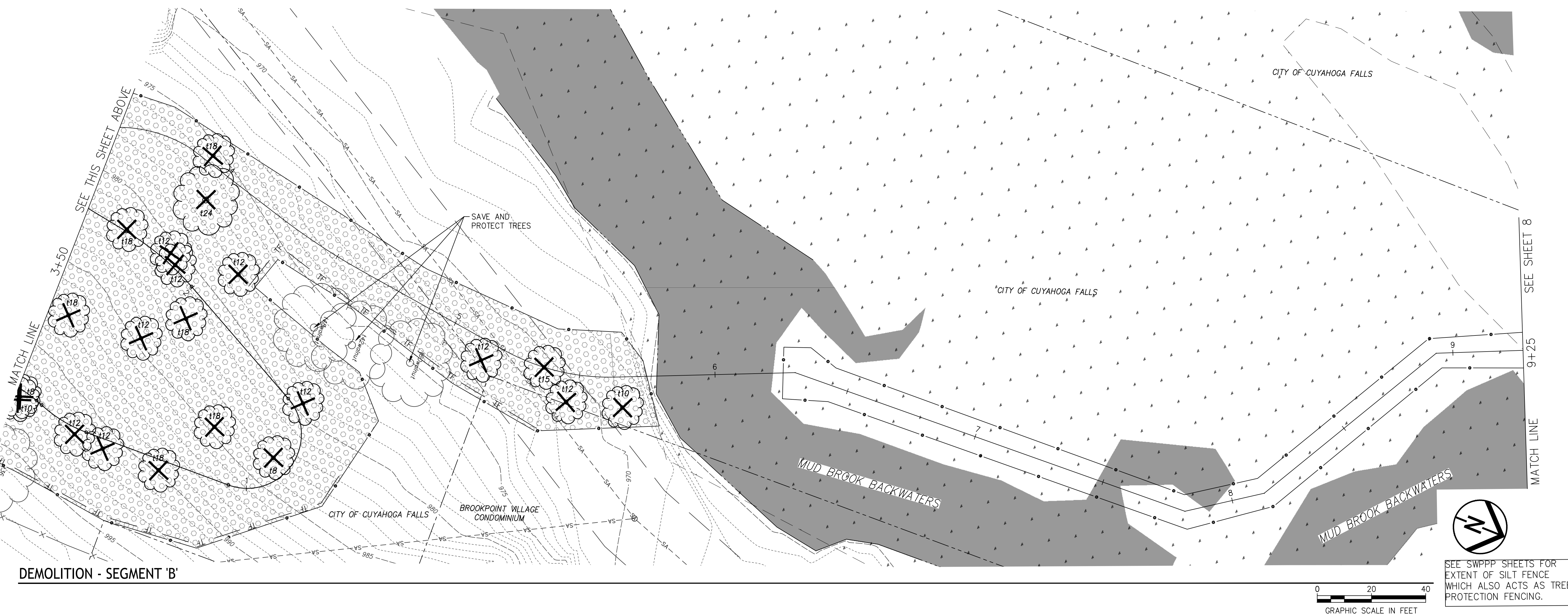
DEMOLITION LEGEND

- CONSTRUCTION LIMITS
- TF TREE PROTECTION FENCING
- AREA OF CLEARING AND GRUBBING
- REMOVE ASPHALT PAVEMENT
- REMOVE VEGETATION
- SAWCUT - FULL DEPTH
- EXISTING TREE TO BE REMOVED (NIC - SEE CLEARING & GRUBBING NOTES)
- PROPOSED TRAIL ALIGNMENT (FOR REFERENCE)
- ALTERNATIVE AREA

3/23

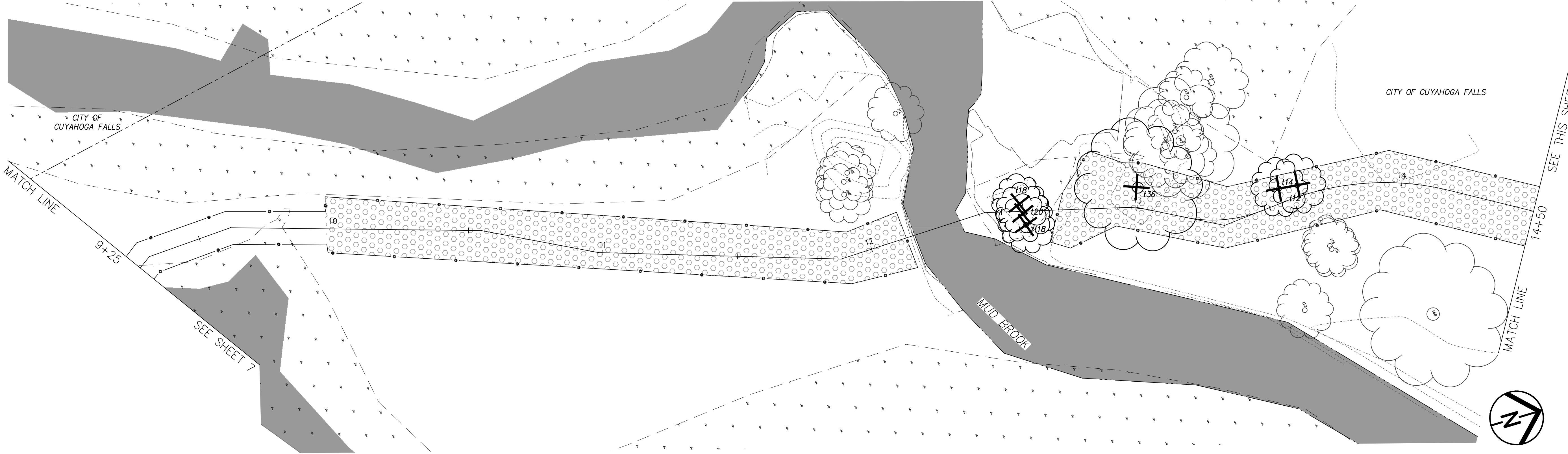
SEE SWPPP SHEETS FOR EXTENT OF SILT FENCE WHICH ALSO ACTS AS TREE PROTECTION FENCING.

DEMOLITION - SEGMENT 'A'

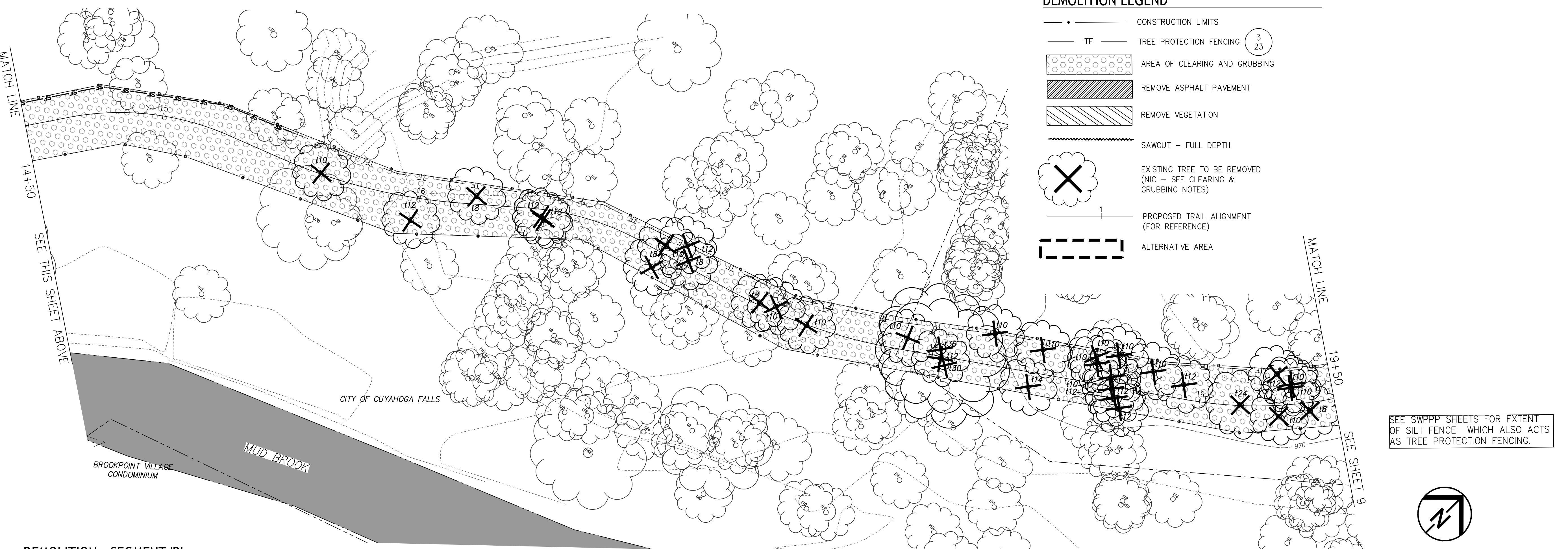


DEMOLITION - SEGMENT 'B'

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DEMOLITION - SEGMENT 'C'



DEMOLITION - SEGMENT 'D'

DEMOLITION LEGEND

- CONSTRUCTION LIMITS
- TF — TREE PROTECTION FENCING (3/23)
- [Patterned Box] AREA OF CLEARING AND GRUBBING
- [Hatched Box] REMOVE ASPHALT PAVEMENT
- [Hatched Box] REMOVE VEGETATION
- SAWCUT — FULL DEPTH
- [Tree with X] EXISTING TREE TO BE REMOVED (NIC - SEE CLEARING & GRUBBING NOTES)
- +— PROPOSED TRAIL ALIGNMENT (FOR REFERENCE)
- [Dashed Box] ALTERNATIVE AREA

E:\CUYAHOGA FALLS\CITY OF CUYAHOGA FALLS\PROJECTS\2021\14-00436-060\MILL POND-MUD BROOK GREENWAY PHASE DESIGN\CAD\2500\14-00436-060 - 2/19/2021 12:45:40 PM

Environmental Design Group
 450 GRANT STREET AKRON, OH 44311 T: 330.375.1390 F: 330.375.1590 WWW.ENVDESIGNGROUP.COM
 806 LITERARY ROAD 2ND FLOOR, SUITE 206 CLEVELAND, OH 44113

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 CITY OF CUYAHOGA FALLS



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NO.	DATE	DESCRIPTION

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DEMOLITION PLAN - 'C' & 'D'



MILL POND-MUD BROOK GREENWAY
 CITY OF CUYAHOGA FALLS



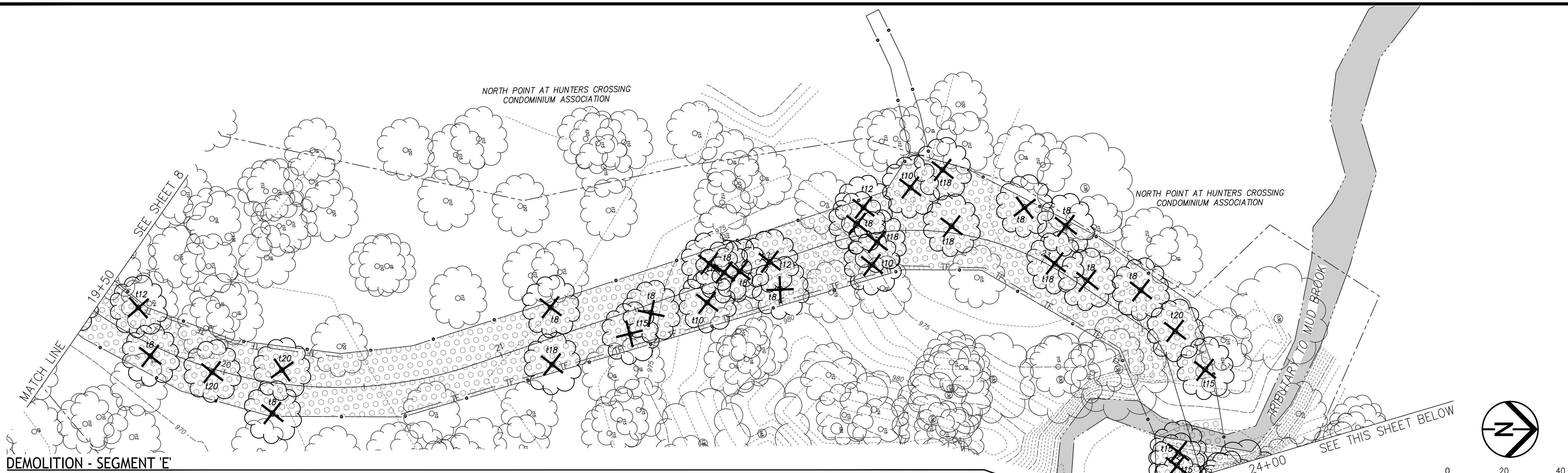
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DATE:

REVISIONS		
Δ	DATE	DESCRIPTION

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DEMOLITION PLAN - 'E' & 'F'



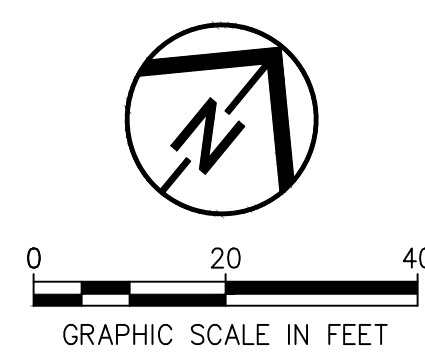
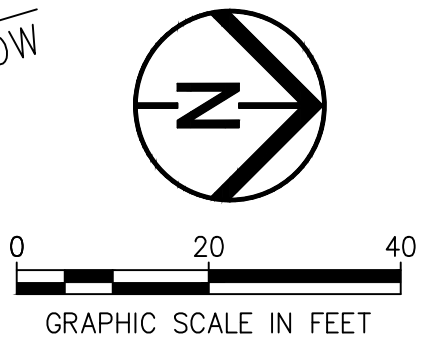
DEMOLITION - SEGMENT 'E'

- DEMOLITION LEGEND**
- CONSTRUCTION LIMITS
 - TF TREE PROTECTION FENCING (3/23)
 - [Dotted Pattern] AREA OF CLEARING AND GRUBBING
 - [Diagonal Lines] REMOVE ASPHALT PAVEMENT
 - [Cross-hatch Pattern] REMOVE VEGETATION
 - SAWCUT - FULL DEPTH
 - [X in Circle] EXISTING TREE TO BE REMOVED (NIC - SEE CLEARING & GRUBBING NOTES)
 - PROPOSED TRAIL ALIGNMENT (FOR REFERENCE)
 - [Dashed Box] ALTERNATIVE AREA



DEMOLITION - SEGMENT 'F'

SEE SWPPP SHEETS FOR EXTENT OF SILT FENCE WHICH ALSO ACTS AS TREE PROTECTION FENCING.

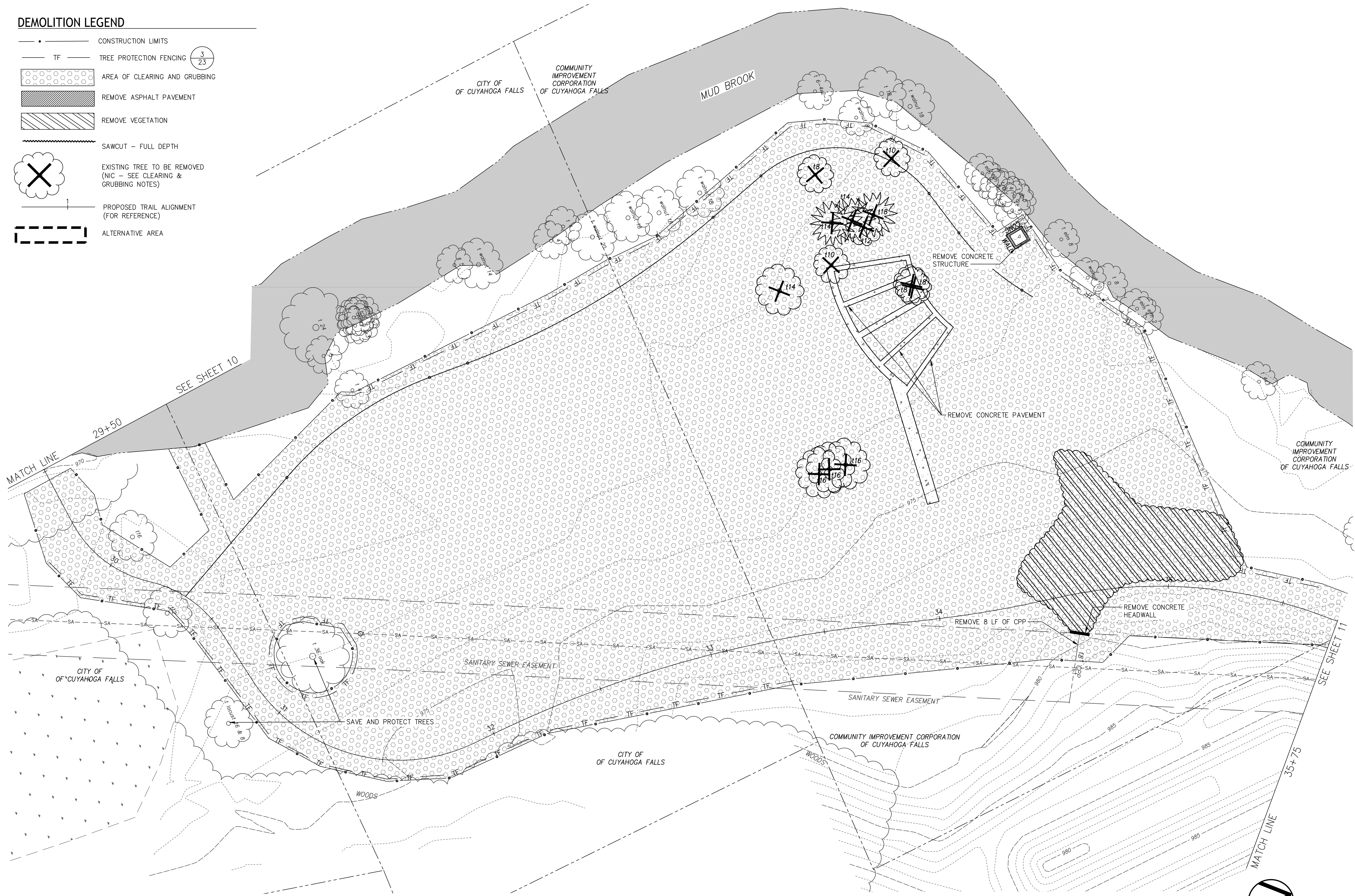


SEE SWPPP SHEETS FOR EXTENT OF SILT FENCE WHICH ALSO ACTS AS TREE PROTECTION FENCING.

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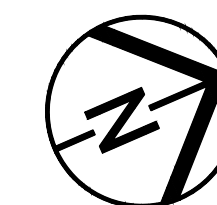
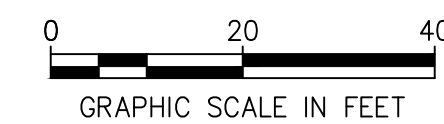
DEMOLITION LEGEND

- CONSTRUCTION LIMITS
- TF — TREE PROTECTION FENCING 3
23
- AREA OF CLEARING AND GRUBBING
- REMOVE ASPHALT PAVEMENT
- REMOVE VEGETATION
- SAWCUT - FULL DEPTH
- EXISTING TREE TO BE REMOVED
(NIC - SEE CLEARING & GRUBBING NOTES)
- PROPOSED TRAIL ALIGNMENT
(FOR REFERENCE)
- ALTERNATIVE AREA



DEMOLITION - SEGMENT 'G'

SEE SWPPP SHEETS FOR
EXTENT OF SILT FENCE



MILL POND-MUD BROOK GREENWAY
CITY OF CUYAHOGA FALLS



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REVISIONS		
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PROJECT NO.: 14-00436-060
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CHECKED BY: KGH
DATE ISSUED: 2/19/2021

DEMOLITION PLAN - 'G'



MILL POND-MUD BROOK GREENWAY
 CITY OF CUYAHOGA FALLS



BID SET

DATE:

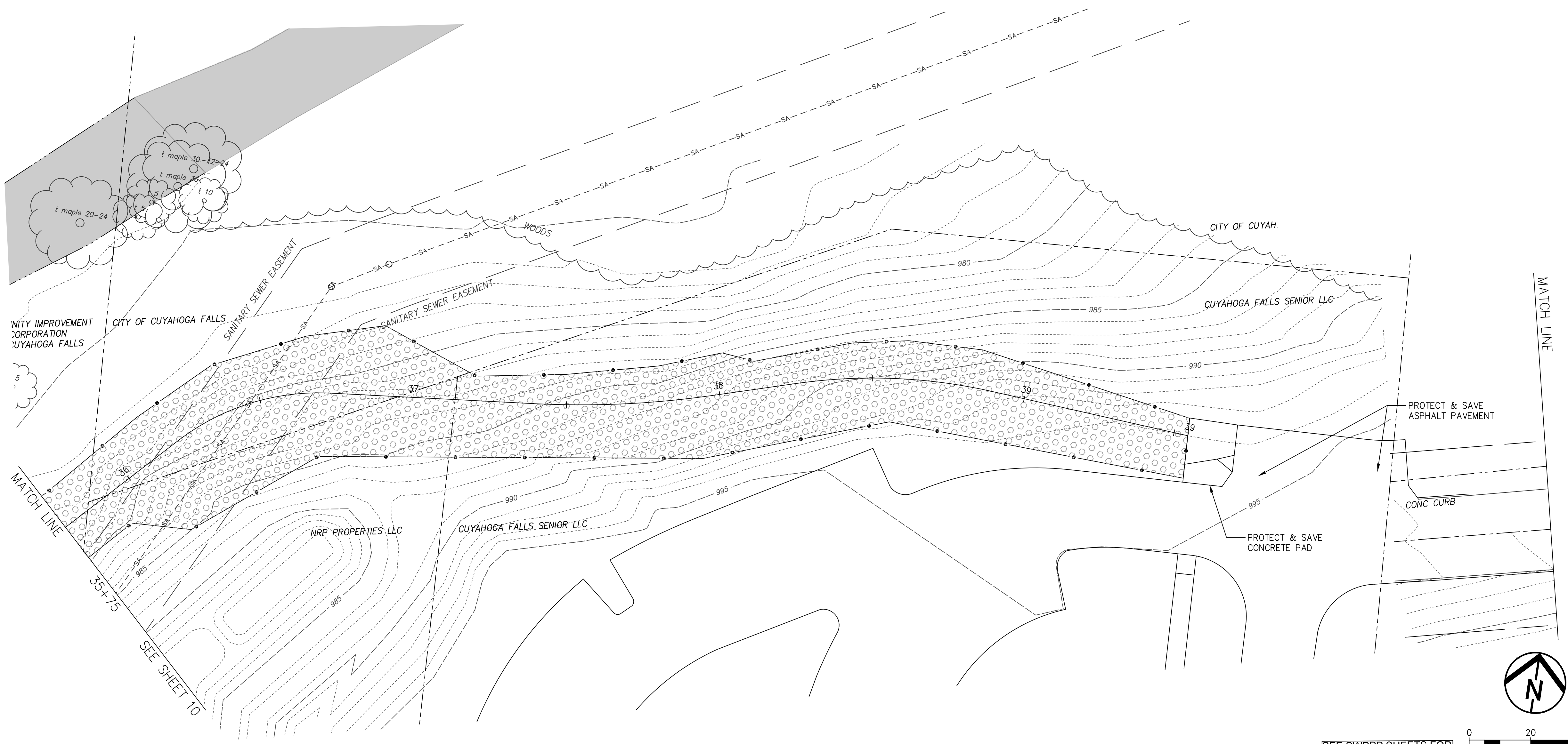
REVISIONS		
Δ	DATE	DESCRIPTION

PROJECT NO.: 14-00436-060
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 DATE ISSUED: 2/19/2021

DEMOLITION PLAN - 'H'

DEMOLITION LEGEND

- CONSTRUCTION LIMITS
- TF --- TREE PROTECTION FENCING (3/23)
- [Pattern] AREA OF CLEARING AND GRUBBING
- [Pattern] REMOVE ASPHALT PAVEMENT
- [Pattern] REMOVE VEGETATION
- ~~~~~ SAWCUT - FULL DEPTH
- [Symbol] EXISTING TREE TO BE REMOVED (NIC - SEE CLEARING & GRUBBING NOTES)
- +--- PROPOSED TRAIL ALIGNMENT (FOR REFERENCE)
- [Pattern] ALTERNATIVE AREA



SEE SWPPP SHEETS FOR EXTENT OF SILT FENCE

0 20 40
 GRAPHIC SCALE IN FEET

DEMOLITION - SEGMENT 'H'

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**MILL POND-MUD BROOK
 GREENWAY**
 CITY OF CUYAHOGA FALLS



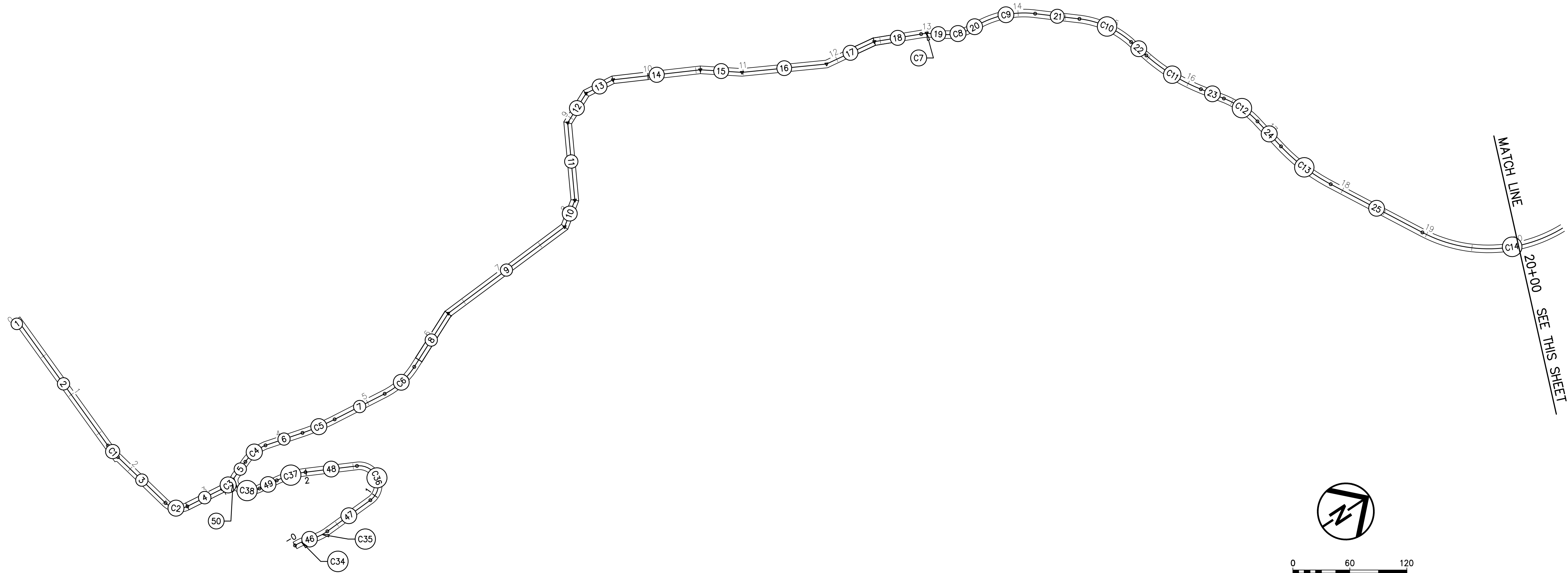
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REVISIONS		
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PROJECT NO.: 14-00436-060
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LINE & CURVE TABLE



ALIGNMENT PLAN - SOUTH



ALIGNMENT PLAN - NORTH

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MILL POND-MUD BROOK GREENWAY
 CITY OF CUYAHOGA FALLS



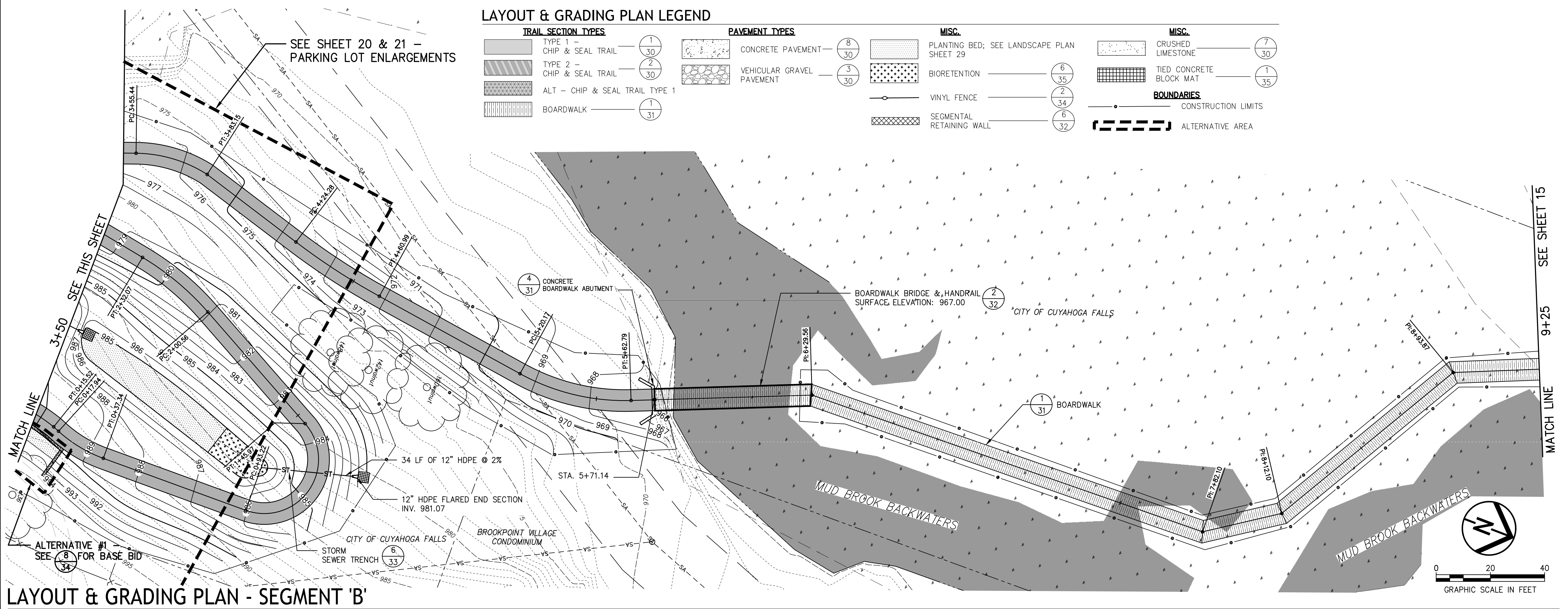
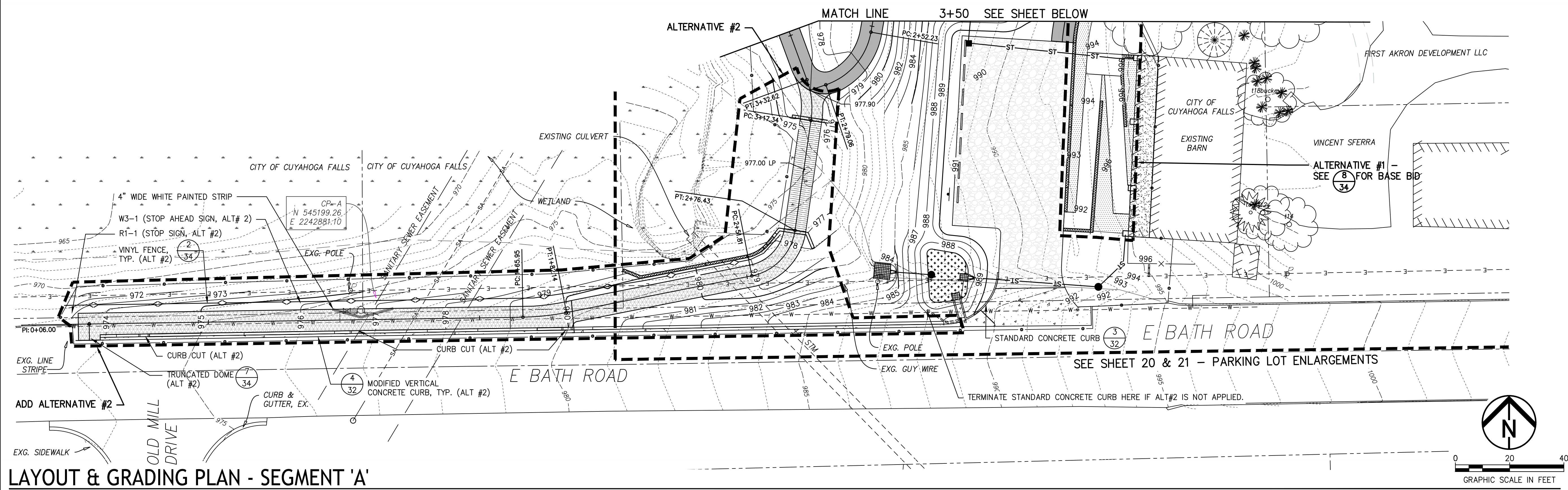
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REVISIONS		
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LAYOUT & GRADING PLAN - 'A' & 'B'
 STA 0+00 TO 9+25



LAYOUT & GRADING PLAN LEGEND

TRAIL SECTION TYPES	PAVEMENT TYPES	MISC.	MISC.
TYPE 1 - CHIP & SEAL TRAIL (1/30)	CONCRETE PAVEMENT (8/30)	PLANTING BED; SEE LANDSCAPE PLAN SHEET 29	CRUSHED LIMESTONE (7/30)
TYPE 2 - CHIP & SEAL TRAIL (2/30)	VEHICULAR GRAVEL PAVEMENT (3/30)	BIORETENTION (6/35)	TIED CONCRETE BLOCK MAT (1/35)
ALT - CHIP & SEAL TRAIL TYPE 1		VINYL FENCE (2/34)	BOUNDARIES
BOARDWALK (1/31)		SEGMENTAL RETAINING WALL (6/32)	CONSTRUCTION LIMITS
			ALTERNATIVE AREA

CUYAHOGA FALLS, CITY OF 14-00436-060 MILL POND-MUD BROOK GREENWAY PHASE DESIGN/CONSTRUCTION 14-00436-060 - 2/19/2021 2:44:53 PM

**MILL POND-MUD BROOK
 GREENWAY**
 CITY OF CUYAHOGA FALLS



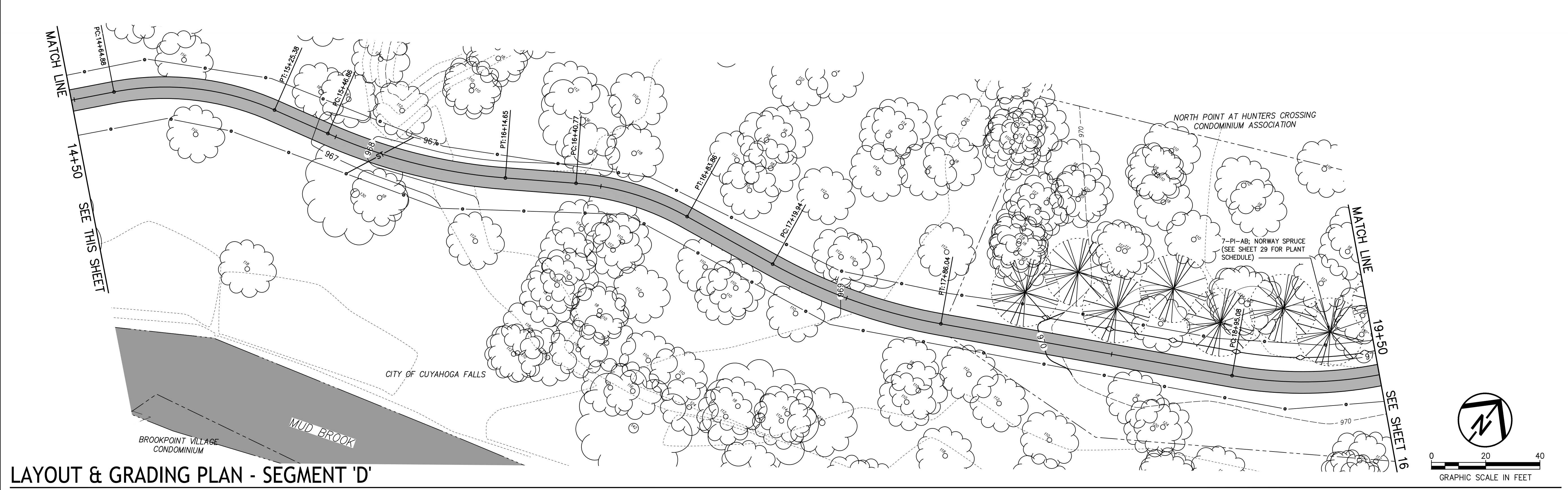
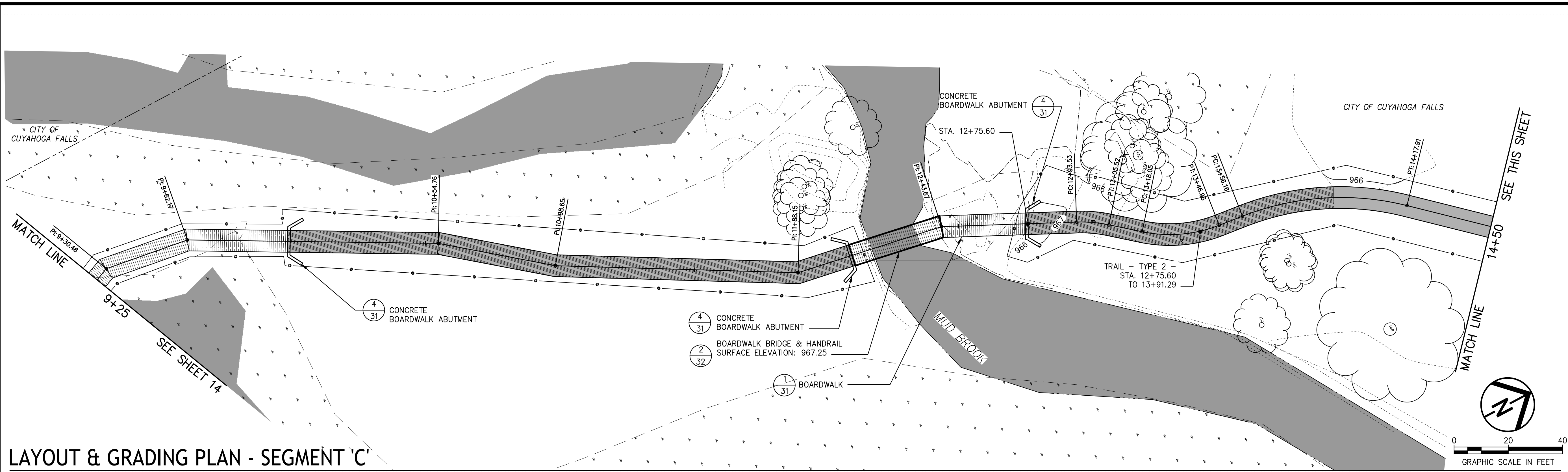
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 DATE ISSUED: 2/19/2021

**LAYOUT & GRADING
 PLAN - 'C' & 'D'**
 STA 9+25 TO 19+50



LAYOUT & GRADING PLAN LEGEND

TRAIL SECTION TYPES	PAVEMENT TYPES	MISC.	MISC.
TYPE 1 - CHIP & SEAL TRAIL (1/30)	CONCRETE PAVEMENT (8/30)	PLANTING BED; SEE LANDSCAPE PLAN SHEET 29	CRUSHED LIMESTONE (7/30)
TYPE 2 - CHIP & SEAL TRAIL (2/30)	VEHICULAR GRAVEL PAVEMENT (3/30)	BIORETENTION (6/35)	TIED CONCRETE BLOCK MAT (1/35)
ALT - CHIP & SEAL TRAIL TYPE 1		VINYL FENCE (2/34)	BOUNDARIES
BOARDWALK (1/31)		SEGMENTAL RETAINING WALL (3/32)	CONSTRUCTION LIMITS
			ALTERNATIVE AREA

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**MILL POND-MUD BROOK
 GREENWAY**
 CITY OF CUYAHOGA FALLS



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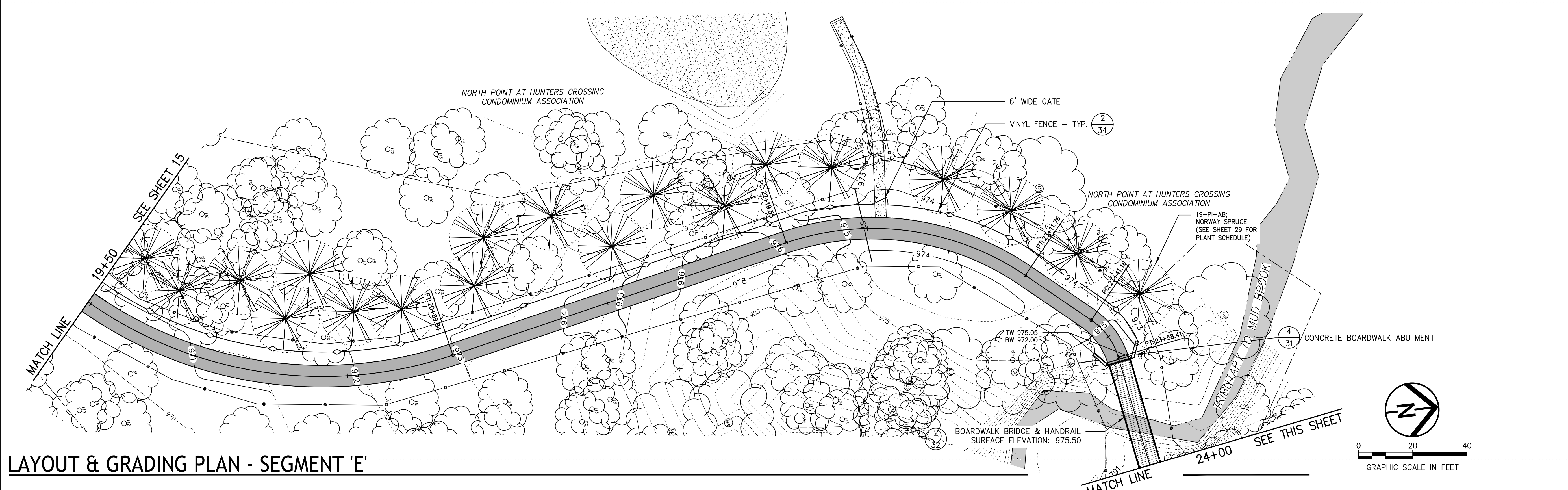
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REVISIONS

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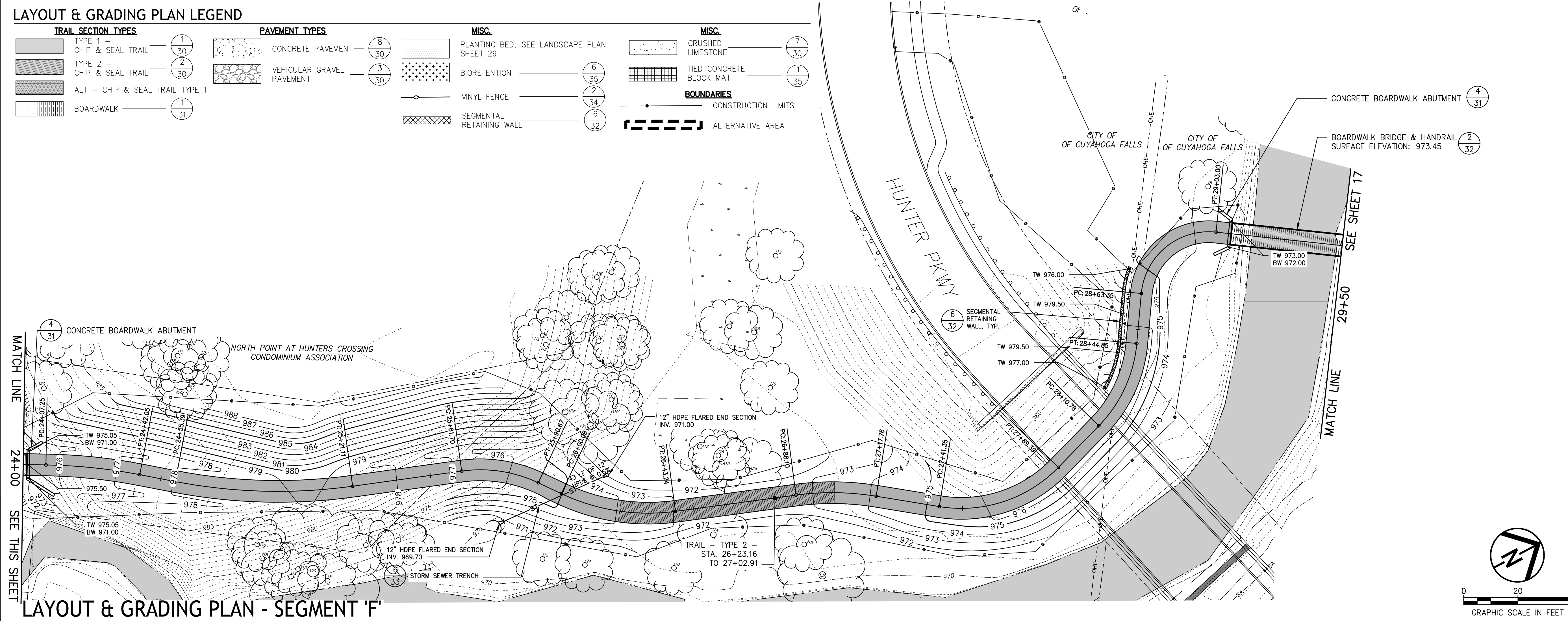
PROJECT NO.: 14-00436-060
 DRAWN BY: RB
 CHECKED BY: KGH
 DATE ISSUED: 2/19/2021

LAYOUT & GRADING
 PLAN - 'E' & 'F'
 STA 19+50 TO 29+50



LAYOUT & GRADING PLAN LEGEND

TRAIL SECTION TYPES	PAVEMENT TYPES	MISC.	MISC.
TYPE 1 CHIP & SEAL TRAIL (1/30)	CONCRETE PAVEMENT (8/30)	PLANTING BED; SEE LANDSCAPE PLAN SHEET 29	CRUSHED LIMESTONE (7/30)
TYPE 2 CHIP & SEAL TRAIL (2/30)	VEHICULAR GRAVEL PAVEMENT (3/30)	BIORETENTION (6/35)	TIED CONCRETE BLOCK MAT (1/35)
ALT - CHIP & SEAL TRAIL TYPE 1		VINYL FENCE (2/34)	BOUNDARIES
BOARDWALK (1/31)		SEGMENTAL RETAINING WALL (6/32)	CONSTRUCTION LIMITS
			ALTERNATIVE AREA



CUYAHOGA FALLS, CITY OF 14-00436-060 MILL POND-MUD BROOK GREENWAY PHASE DESIGN LAYOUT PLAN 14-00436-060 - 2/19/2021 2:44:53 PM

**MILL POND-MUD BROOK
 GREENWAY**
 CITY OF CUYAHOGA FALLS



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REVISIONS

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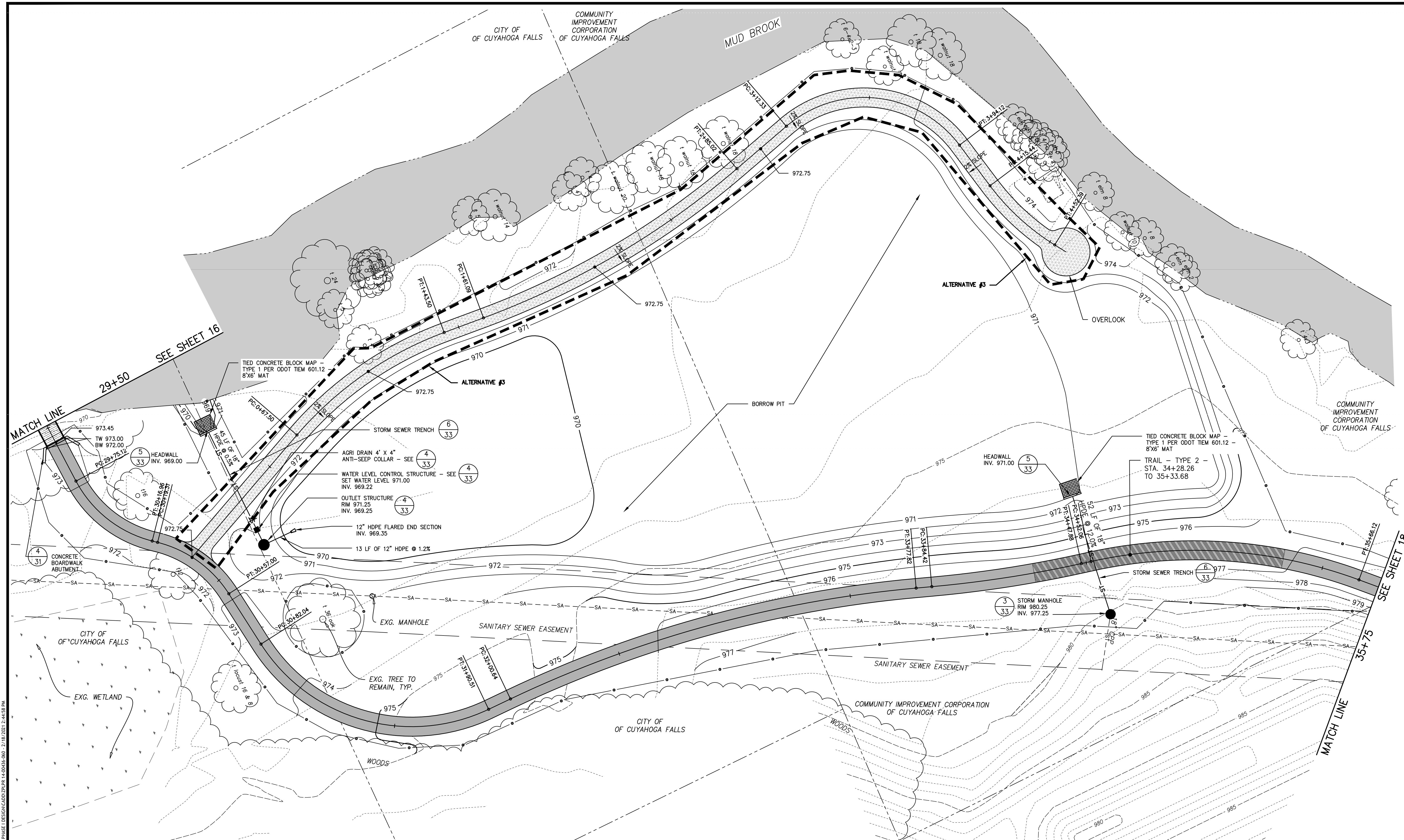
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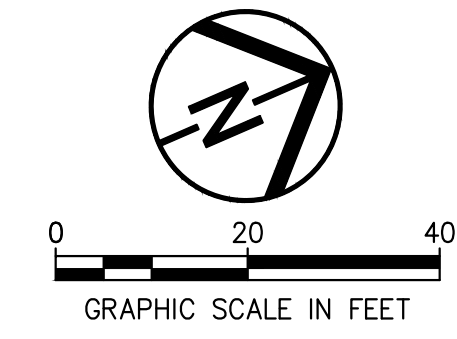
**LAYOUT & GRADING
 PLAN - 'G'**
 STA 29+50 TO 35+75



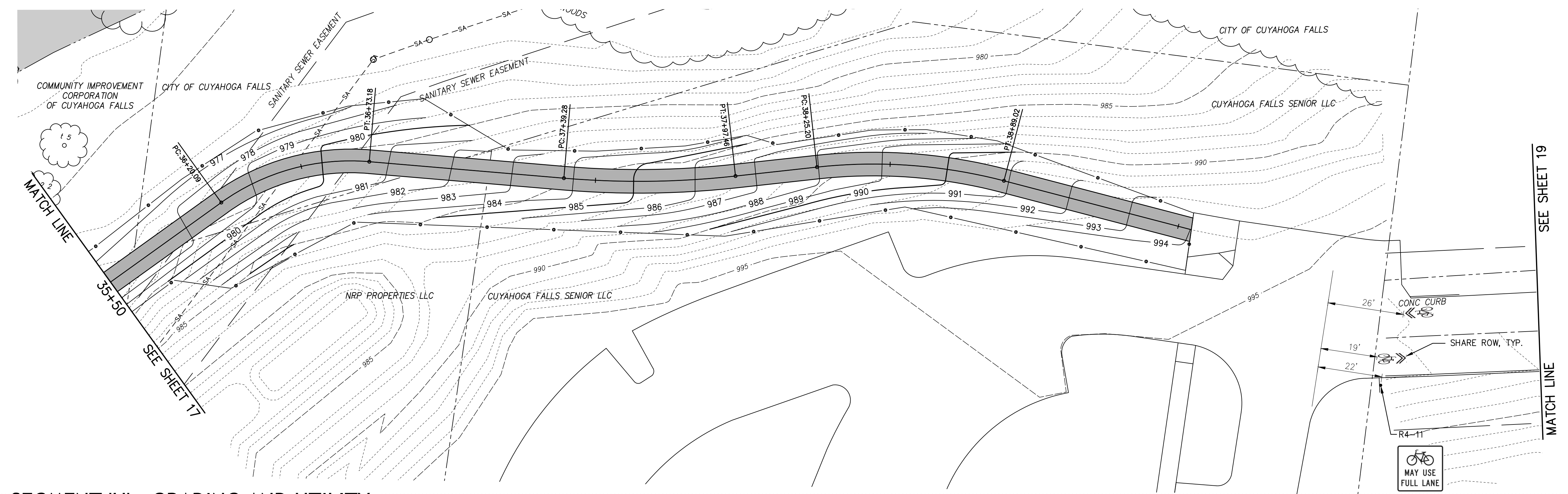
LAYOUT & GRADING PLAN - SEGMENT 'G'

LAYOUT & GRADING PLAN LEGEND

TYPE 1 - CHIP & SEAL TRAIL (1/30)	CONCRETE PAVEMENT (8/30)	PLANTING BED; SEE LANDSCAPE PLAN SHEET 29	CRUSHED LIMESTONE (7/30)
TYPE 2 - CHIP & SEAL TRAIL (2/30)	VEHICULAR GRAVEL PAVEMENT (3/30)	BIORETENTION (6/35)	TIED CONCRETE BLOCK MAT (1/35)
ALT - CHIP & SEAL TRAIL TYPE 1 (1/31)	BOARDWALK (1/31)	VINYL FENCE (2/34)	CONSTRUCTION LIMITS
		SEGMENTAL RETAINING WALL (6/32)	ALTERNATIVE AREA



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SEGMENT 'H' - GRADING AND UTILITY

MILL POND-MUD BROOK GREENWAY
 CITY OF CUYAHOGA FALLS



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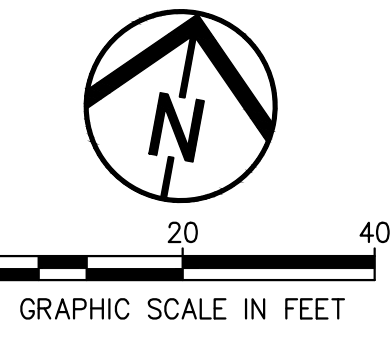
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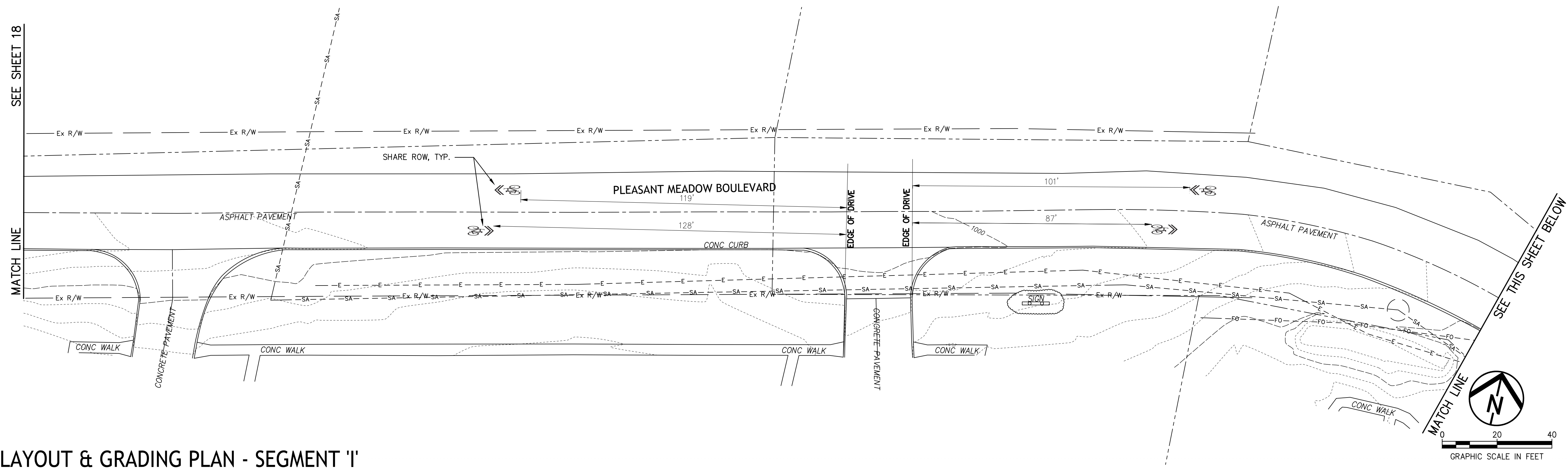
LAYOUT & GRADING PLAN - 'H'
 STA 35+75 TO 39+55.18

LAYOUT & GRADING PLAN LEGEND

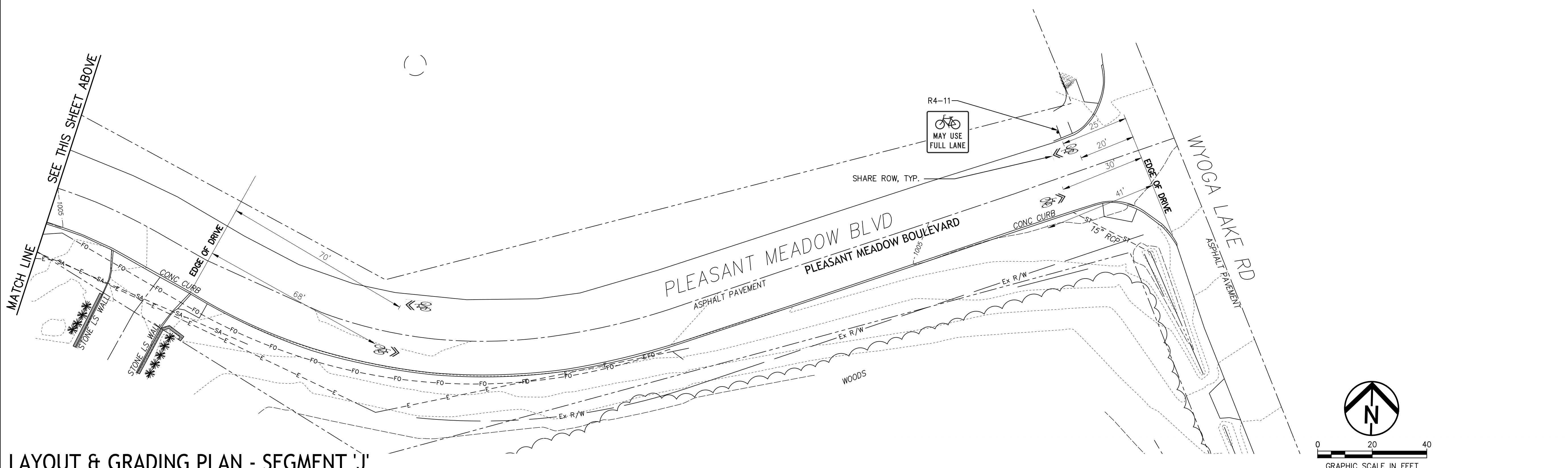
<p>TRAIL SECTION TYPES</p> <ul style="list-style-type: none"> TYPE 1 - CHIP & SEAL TRAIL (1/30) TYPE 2 - CHIP & SEAL TRAIL (2/30) ALT - CHIP & SEAL TRAIL TYPE 1 BOARDWALK (1/31) 	<p>PAVEMENT TYPES</p> <ul style="list-style-type: none"> CONCRETE PAVEMENT (8/30) VEHICULAR GRAVEL PAVEMENT (3/30) 	<p>MISC.</p> <ul style="list-style-type: none"> PLANTING BED; SEE LANDSCAPE PLAN SHEET 29 BIORETENTION (6/35) VINYL FENCE (2/34) SEGMENTAL RETAINING WALL (6/32) 	<p>MISC.</p> <ul style="list-style-type: none"> CRUSHED LIMESTONE (7/30) TIED CONCRETE BLOCK MAT (1/35) <p>BOUNDARIES</p> <ul style="list-style-type: none"> CONSTRUCTION LIMITS ALTERNATIVE AREA
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LAYOUT & GRADING PLAN - SEGMENT 'I'



LAYOUT & GRADING PLAN - SEGMENT 'J'

LAYOUT & GRADING PLAN LEGEND

TRAIL SECTION TYPES		PAVEMENT TYPES		MISC.		MISC.	
	TYPE 1 - CHIP & SEAL TRAIL (1/30)		CONCRETE PAVEMENT (8/30)		PLANTING BED; SEE LANDSCAPE PLAN SHEET 29 (6/35)		CRUSHED LIMESTONE (7/30)
	TYPE 2 - CHIP & SEAL TRAIL (2/30)		VEHICULAR GRAVEL PAVEMENT (3/30)		BIORETENTION (6/35)		TIED CONCRETE BLOCK MAT (1/35)
	ALT - CHIP & SEAL TRAIL TYPE 1 (1/31)		VINYL FENCE (2/34)		SEGMENTAL RETAINING WALL (6/32)	BOUNDARIES	
	BOARDWALK (1/31)		CONSTRUCTION LIMITS		ALTERNATIVE AREA		

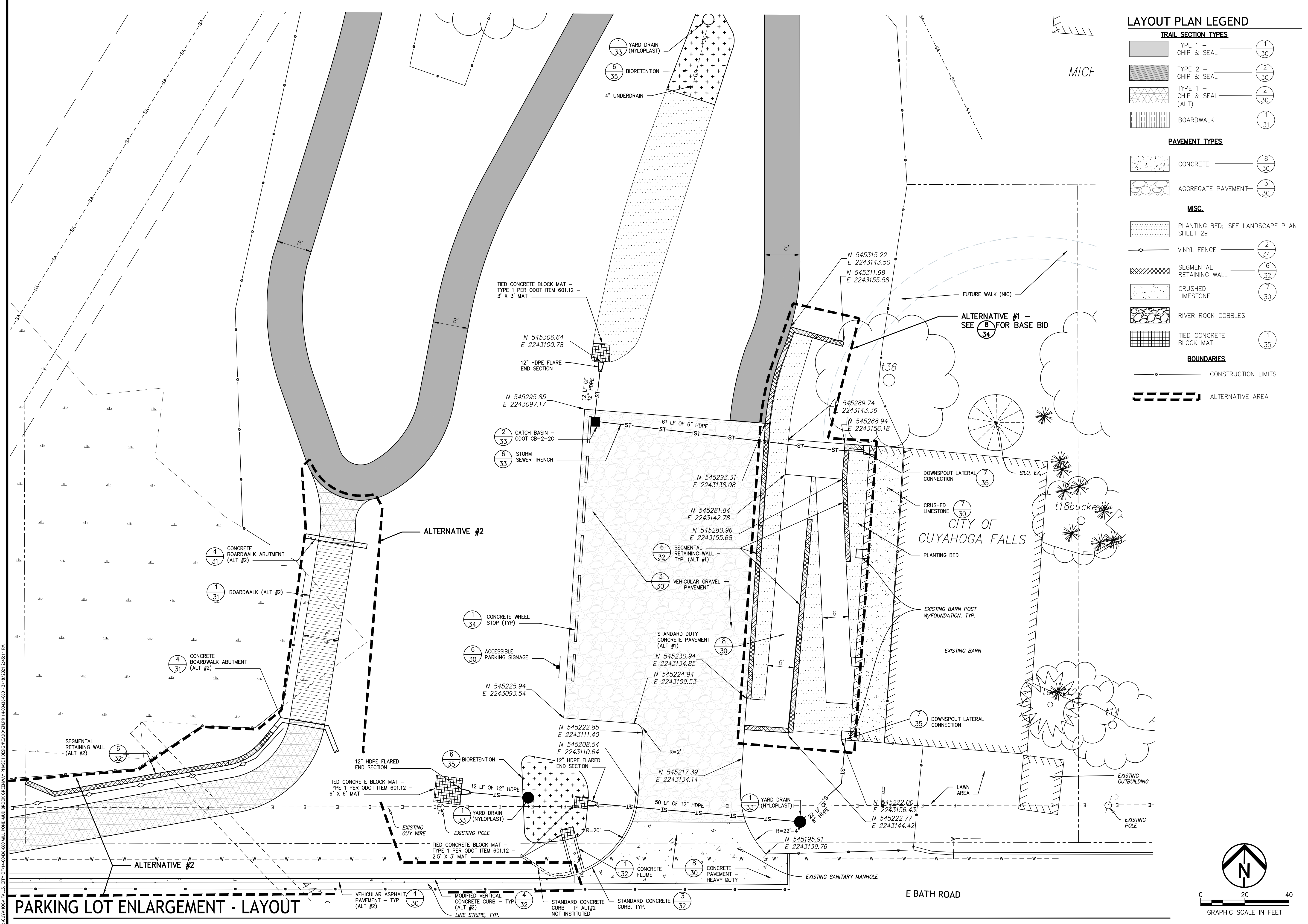
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LAYOUT & GRADING PLAN - 'I' & 'J'
PLEASANT MEADOW BOULEVARD

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LAYOUT PLAN LEGEND

TRAIL SECTION TYPES	
[Symbol]	TYPE 1 - CHIP & SEAL (1/30)
[Symbol]	TYPE 2 - CHIP & SEAL (2/30)
[Symbol]	TYPE 1 - CHIP & SEAL (ALT) (2/30)
[Symbol]	BOARDWALK (1/31)

PAVEMENT TYPES	
[Symbol]	CONCRETE (8/30)
[Symbol]	AGGREGATE PAVEMENT (3/30)

MISC.	
[Symbol]	PLANTING BED; SEE LANDSCAPE PLAN SHEET 29
[Symbol]	VINYL FENCE (2/34)
[Symbol]	SEGMENTAL RETAINING WALL (6/32)
[Symbol]	CRUSHED LIMESTONE (7/30)
[Symbol]	RIVER ROCK COBBLES
[Symbol]	TIED CONCRETE BLOCK MAT (1/35)

BOUNDARIES	
[Symbol]	CONSTRUCTION LIMITS
[Symbol]	ALTERNATIVE AREA



MILL POND-MUD BROOK GREENWAY

CITY OF CUYAHOGA FALLS



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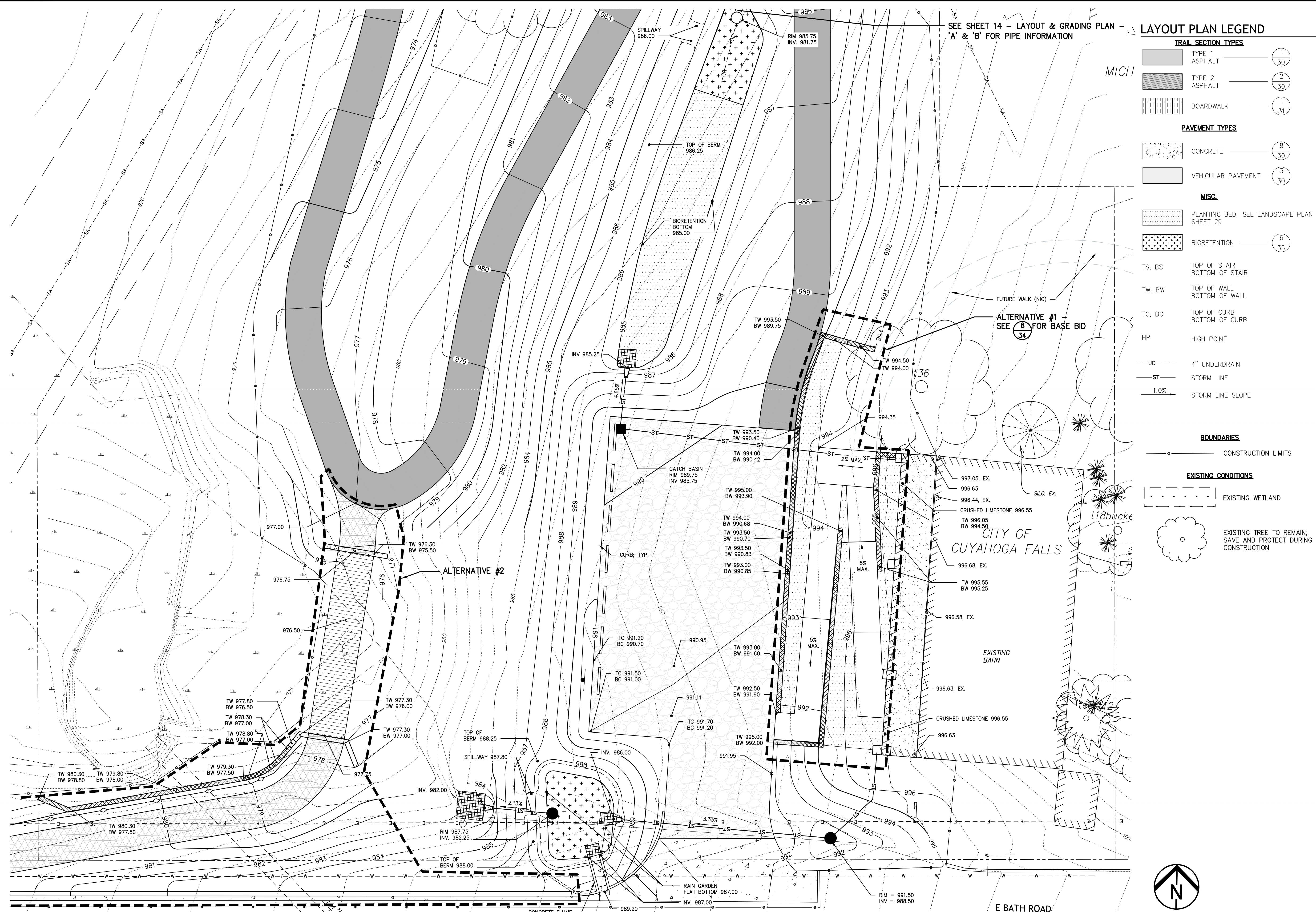
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PROJECT NO.: 14-00436-060
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 DATE ISSUED: 2/19/2021

PARKING LOT ENLARGEMENT - LAYOUT

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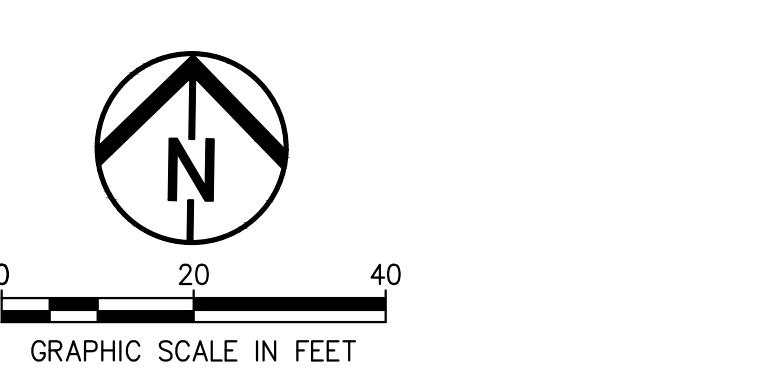


SEE SHEET 14 - LAYOUT & GRADING PLAN -
'A' & 'B' FOR PIPE INFORMATION

LAYOUT PLAN LEGEND

- TRAIL SECTION TYPES**
- TYPE 1 ASPHALT 1/30
 - TYPE 2 ASPHALT 2/30
 - BOARDWALK 1/31
- PAVEMENT TYPES**
- CONCRETE 8/30
 - VEHICULAR PAVEMENT 3/30
- MISC.**
- PLANTING BED; SEE LANDSCAPE PLAN SHEET 29
 - BIORETENTION 6/35
 - TS, BS TOP OF STAIR / BOTTOM OF STAIR
 - TW, BW TOP OF WALL / BOTTOM OF WALL
 - TC, BC TOP OF CURB / BOTTOM OF CURB
 - HP HIGH POINT
 - UD 4" UNDERDRAIN
 - ST STORM LINE
 - 1.0% STORM LINE SLOPE

- BOUNDARIES**
- CONSTRUCTION LIMITS
- EXISTING CONDITIONS**
- EXISTING WETLAND
 - EXISTING TREE TO REMAIN; SAVE AND PROTECT DURING CONSTRUCTION



MILL POND-MUD BROOK GREENWAY

CITY OF CUYAHOGA FALLS



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PARKING LOT ENLARGEMENT - GRADING

PARKING LOT ENLARGEMENT - GRADING & UTILITY PLAN

STORMWATER POLLUTION PREVENTION PLAN NOTES

- CONSTRUCT IN ACCORDANCE WITH THESE PLANS, THE OHIO DEPARTMENT OF TRANSPORTATION (ODOT) STANDARD CONSTRUCTION DRAWING DM-4.4 AND THE OHIO RAINWATER AND LAND DEVELOPMENT HANDBOOK (2006). THE IMPLEMENTATION OF SOIL EROSION AND SEDIMENT CONTROL SHALL ALSO CONFORM TO THE REQUIREMENTS OF THE OHIO ENVIRONMENTAL PROTECTION AGENCY (OEPA) UNDER NPDES PERMIT #OHCO00005. IF CONFLICTS EXIST REGARDING THE SOIL AND SEDIMENT CONTROL PRACTICES, THE MORE RESTRICTIVE SHALL APPLY.
- STABILIZATION OF DISTURBED AREAS – DISTURBED AREAS SHALL HAVE SOIL STABILIZATION APPLIED WITHIN SEVEN (7) DAYS IF THEY ARE TO REMAIN DORMANT (UNDISTURBED) FOR MORE THAN FOURTEEN (14) DAYS. FOR AREAS WITHIN FIFTY (50) FEET OF ANY LIVE STREAM, SOIL STABILIZATION PRACTICES SHALL BE INITIATED WITHIN TWO (2) DAYS ON ALL INACTIVE, DISTURBED AREAS. PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DISTURBED AREAS WITHIN SEVEN (7) DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. WHEN SEASONAL CONDITIONS PROHIBIT THE APPLICATION OF TEMPORARY OR PERMANENT SEEDING, NON-VEGETATIVE SOIL STABILIZATION PRACTICES SUCH AS MULCHING AND MATTING SHALL BE USED.
- INSTALL ALL EROSION AND SEDIMENT CONTROL ITEMS BEFORE ANY CLEARING AND GRUBBING OR EARTHWORK IS BEGUN.
- PROTECT UNDISTURBED AREAS THROUGHOUT CONSTRUCTION. DO NOT STORE EQUIPMENT, VEHICLES OR MATERIALS IN THESE PROTECTED AREAS.
- SEEDING AND FERTILIZER FOR PERMANENT COVER SHALL BE AS SPECIFIED IN ODOT CMS ITEM 659.
- MULCHING SHALL BE AS SPECIFIED IN ODOT CMS ITEM 659.
- TOPSOILING SHALL BE AS SPECIFIED IN ODOT CMS ITEM 659.
- EXCELSIOR MATTING/EROSION CONTROL BLANKETS WILL BE USED ON TEMPORARY DIVERSION CHANNELS AND DITCHES GREATER THAN 1.5% AND ALL OTHER SLOPES STEEPER THAN 6%. EXCELSIOR MATTING/EROSION CONTROL BLANKETS SHALL BE AS SPECIFIED IN THE GENERAL NOTES.
- SILT FENCE AND/OR SILT SOCK SHALL BE AS DETAILED ON THE DRAWINGS.
- NO SOLID OR LIQUID WASTE SHALL BE DISCHARGED INTO STORMWATER RUNOFF.
- OFF-SITE VEHICLE TRACKING OF SEDIMENTS WILL BE MINIMIZED. ALL OFF-SITE TRACKING OF SEDIMENT SHALL BE CLEANED UP AS IT OCCURS.
- SEDIMENT TRAPS AND BASINS WILL BE USED FOR TEMPORARY EROSION CONTROL.
- OTHER EROSION CONTROL AND SEDIMENT CONTROL ITEMS MAY BE NECESSARY DUE TO ENVIRONMENTAL CONDITIONS.
- A PRE-CONSTRUCTION MEETING IS REQUIRED WITH SUMMIT S.W.C.D. (330-929-2871) AND CITY OF CUYAHOGA FALLS ENGINEERING DEPARTMENT PRIOR TO BEGINNING WORK.
- TRUCK WASHOUT AND DISCHARGE OF SURPLUS WASH WATER ON SITE IS PERMITTED EXCLUSIVELY IN THE DESIGNATED AREA.
- WINTERIZATION – ANY DISTURBED AREA THAT IS NOT GOING TO BE WORKED FOR 14 DAYS OR MORE MUST BE SEEDING AND MULCH COVER APPLIED BETWEEN NOVEMBER 1 AND MARCH 1.
- TRENCH WATER MUST BE PUMPED THROUGH A SEDIMENT SETTLING FACILITY OR EQUALLY EFFECTIVE DEVICE PRIOR TO DISCHARGE FROM THE SITE.
- STAGING, STORAGE, FUELING AND VEHICLE PARKING ARE SHOWN ON THE SWPP PLAN. IF THE CONTRACTOR WANTS TO UTILIZE A DIFFERENT LOCATION FOR THESE FUNCTIONS, HE SHALL REVISE THE SWPP PLAN AND SUBMIT IT TO SUMMIT S.W.C.D. AND CITY OF CUYAHOGA FALLS ENGINEERING DEPARTMENT FOR APPROVAL.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL EROSION AND SEDIMENT CONTROL MEASURES.
- DISTURBED AREAS REMAINING DORMANT FOR OVER A YEAR AT THE FINAL GRADE WILL HAVE A PERMANENT COVER APPLIED WITHIN 7 DAYS OF LAST DISTURBANCE.

MAINTENANCE AND INSPECTION:
 PERMANENT RECORDS OF MAINTENANCE AND INSPECTION MUST BE MAINTAINED THROUGHOUT CONSTRUCTION A MINIMUM OF ONCE EVERY 7 DAYS AND AFTER STORM EVENTS GREATER THAN 0.5 INCH IN A 24 HOUR PERIOD. PROVIDE NAME OF INSPECTOR, MAJOR OBSERVATIONS, DATE OF INSPECTION, CERTIFICATION OF COMPLIANCE AND CORRECTIVE MEASURES TAKEN.

REPAIRS:
 ANY EROSION CONTROL MEASURES, STRUCTURES, DEVICES, OR RELATED ITEMS IN NEED OF REPAIR WILL BE MADE WITHIN 7 DAYS.

MATERIAL MANAGEMENT PRACTICES:
 THE FOLLOWING PRACTICES SHALL BE EXECUTED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORMWATER RUN-OFF. THE JOB SITE SUPERINTENDENT IS RESPONSIBLE FOR ENSURING THESE PRACTICES ARE FOLLOWED:

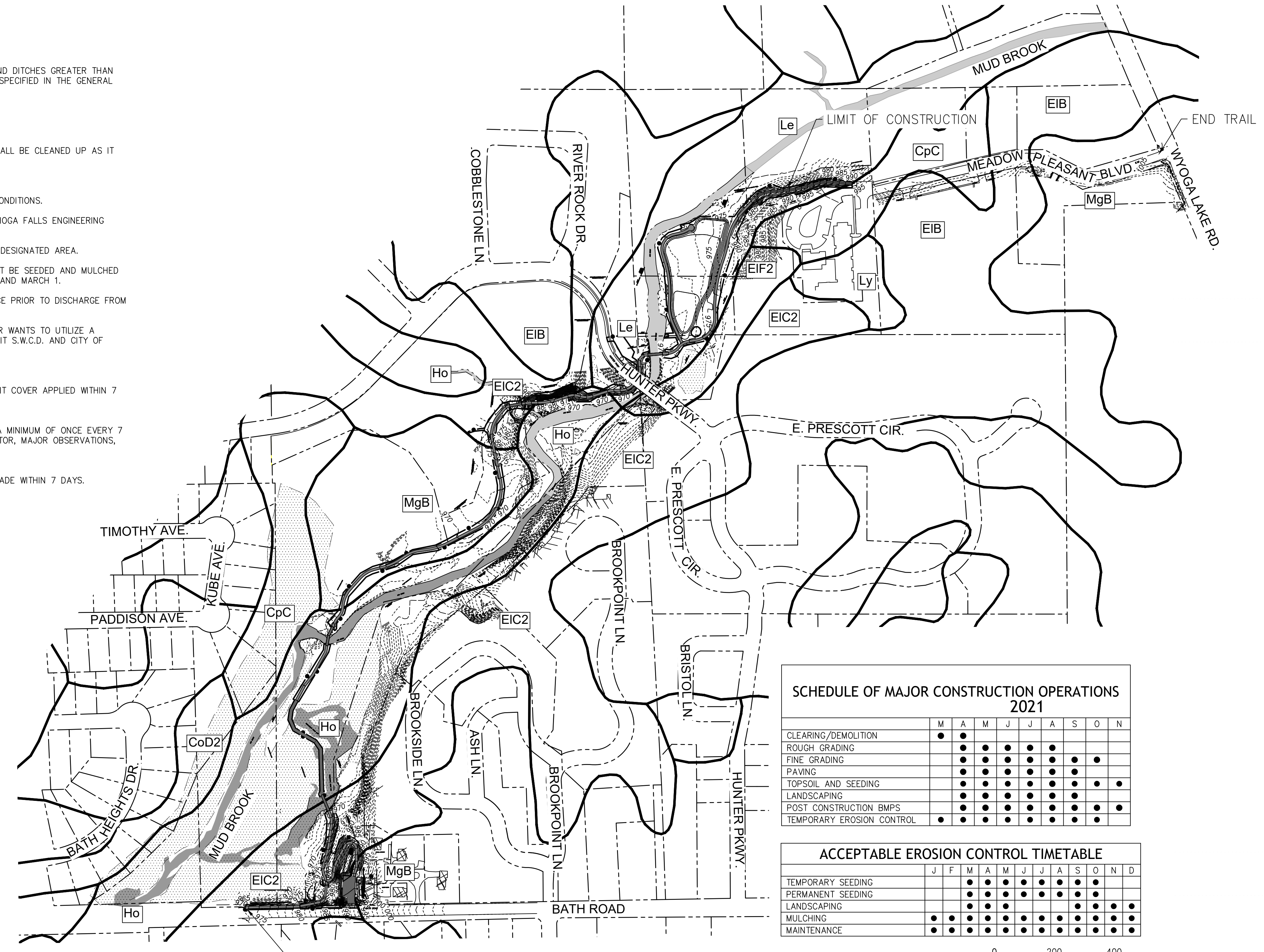
- STORE THE MINIMUM AMOUNT OF PRODUCT REQUIRED TO COMPLETE THE JOB, IF POSSIBLE, UNDER ROOF OR IN A CONTAINMENT AREA. PRODUCTS SHALL REMAIN IN THEIR ORIGINAL CONTAINER. LABEL MUST BE LEGIBLE
- MANUFACTURER'S RECOMMENDATION SHALL BE FOLLOWED FOR USE AND DISPOSAL.
- PRODUCT TO BE USED ENTIRELY (WHEN POSSIBLE) PRIOR TO DISPOSING.
- MATERIAL SAFETY DATA SHEETS (MSDS) FOR EACH SUBSTANCE WITH HAZARDOUS PROPERTIES USED ON THE SITE SHALL BE OBTAINED AND POSTED IN THE IMMEDIATE AREA OF PRODUCT STORAGE AND SHALL BE USED FOR PROPER MANAGEMENT OF POTENTIAL WASTE.
- ALL HAZARDOUS WASTE MATERIAL WILL BE DISPOSED BY THE CONTRACTOR IN A MANNER SPECIFIED BY LOCAL, STATE OR FEDERAL REGULATIONS AND PER MANUFACTURERS RECOMMENDATIONS.
- ALL PERSONNEL SHALL BE TRAINED IN THE PROPER HANDLING AND CLEAN UP OF SPILLED MATERIALS. NO SPILLED HAZARDOUS MATERIALS OR WASTE SHALL BE ALLOWED TO COME IN CONTACT WITH STORMWATER DISCHARGES. IF NECESSARY, THE CONTAMINATED STORMWATER WILL BE HELD ON SITE UNTIL IT MEETS LOCAL, STATE AND FEDERAL REGULATIONS.
- IN THE EVENT OF A SPILL THE FOLLOWING PROCEDURES MUST BE FOLLOWED:
 - ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.
 - THE PROJECT MANAGER AND ENGINEER OF RECORD IMMEDIATELY NOTIFIED.
 - ANY SPILLS OF TOXIC OR HAZARDOUS MATERIALS MUST BE REPORTED TO THE APPROPRIATE LOCAL, STATE AND FEDERAL AGENCY. THE EPA NATIONAL RESPONSE CENTER (1-800-424-8802) MUST BE NOTIFIED WHEN A SPILL EXCEEDS THE REPORTABLE QUANTITY OF A SUBSTANCE. THE SUBSTANCES AND AMOUNTS ARE LOCATED IN FEDERAL REGULATIONS (40 CFR 110, 114 AND 302).
 - IF A SPILL EXCEEDS A REPORTABLE QUANTITY, THE SWPP PLAN MUST BE MODIFIED WITHIN 7 DAYS PROVIDING A DESCRIPTION, DATE AND INCIDENT OF THE RELEASE.

- PRODUCT SPECIFIC PRACTICES:**
- PETROLEUM – PETROLEUM PRODUCTS WILL BE STORED IN CLEARLY LABELED TIGHTLY SEALED CONTAINERS. ANY ON SITE PETROLEUM STORAGE TANKS WILL HAVE A CONTAINMENT STRUCTURE AROUND IT FOR POTENTIAL SPILLS. DRIP PANS SHALL BE PROVIDED FOR ALL DISPENSERS. MANUFACTURER'S RECOMMENDATIONS SHALL BE FOLLOWED WHEN ANY ASPHALT SUBSTANCES ARE USED ON SITE.
 - FERTILIZERS – THE MANUFACTURER'S RECOMMENDED MINIMAL AMOUNTS SHALL BE APPLIED AND WORKED INTO THE SOIL TO LIMIT THE EXPOSURE TO STORMWATER. THE CONTENTS OF ANY PARTIALLY USED BAGS WILL BE TRANSFERRED TO SEALABLE PLASTIC BINS AND STORED UNDER COVER, AWAY FROM STORMWATER DRAINAGEWAYS.

SITE LOCATION INFORMATION		LATITUDE:	41°01'19"N
		LONGITUDE:	81°38'45"W
CITY OF CUYAHOGA FALLS	SUMMIT	OH	
CITY, VILLAGE, TOWNSHIP	COUNTY	STATE	
MUD BROOK/CUYAHOGA RIVER			
NAME OF WATERSHED/IMMEDIATE RECEIVING WATER(S)			
225 E BATH ROAD, CUYAHOGA FALLS, OH 44223			
SITE ADDRESS			
CITY OF CUYAHOGA FALLS	330-971-8180		
DEVELOPER	PHONE		
2310 2ND STREET, CUYAHOGA FALLS, OH 44221			
DEVELOPER ADDRESS			

HYDROLOGIC SOIL GROUPS:	
HYDROLOGIC GROUP A	CnC – CHILI LOAM, 6 TO 12 PERCENT SLOPES
HYDROLOGIC GROUP C	Le – LOBDELL SILT LOAM
HYDROLOGIC GROUP D	Ho – HOLLY SILT LOAM
	EIC2 – ELLSWORTH SILT LOAM, 6 TO 12 PERCENT SLOPES
	MgB – MAHONING SILT LOAM, 2 TO 6 PERCENT SLOPES

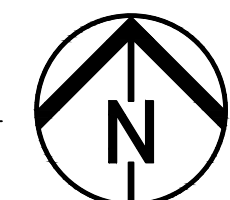
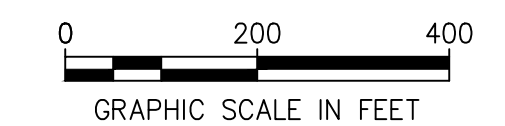
SITE DESCRIPTION			
MARK ONE	TOTAL AREA		
	AREA TO BE CLEARED	–	30.28 AC
SUBDIVISION	PRE-DEV IMPERVIOUSNESS	–	5.49 AC
COMMERCIAL	POST DEV IMPERVIOUSNESS	–	0.30%
RESIDENTIAL	PRE-DEV RUNOFF COEFFICIENT	–	0.2518
PUD	POST-DEV RUNOFF COEFFICIENT	–	0.2692
OTHER	PRE-DEV CURVE NO.	–	70
	POST-DEV CURVE NO.	–	71



SOILS MAP

SCHEDULE OF MAJOR CONSTRUCTION OPERATIONS 2021											
	M	A	M	J	J	A	S	O	N		
CLEARING/DEMOLITION	•	•									
ROUGH GRADING				•	•	•					
FINE GRADING				•	•	•	•	•	•		
PAVING				•	•	•	•	•	•		
TOPSOIL AND SEEDING				•	•	•	•	•	•		
LANDSCAPING				•	•	•	•	•	•		
POST CONSTRUCTION BMPS				•	•	•	•	•	•		
TEMPORARY EROSION CONTROL	•	•	•	•	•	•	•	•	•		

ACCEPTABLE EROSION CONTROL TIMETABLE												
	J	F	M	A	M	J	J	A	S	O	N	D
TEMPORARY SEEDING			•	•	•	•	•	•	•	•	•	
PERMANENT SEEDING			•	•	•	•	•	•	•	•	•	
LANDSCAPING			•	•	•	•	•	•	•	•	•	
MULCHING	•	•	•	•	•	•	•	•	•	•	•	
MAINTENANCE	•	•	•	•	•	•	•	•	•	•	•	



Environmental Design Group
 AKRON / CLEVELAND / COLUMBUS
 HQ 450 GRANT ST., AKRON, OH 44311
 P 330.375.1590 / F 800.835.1590
 W ENVDESIGNGROUP.COM

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

MILL POND-MUD BROOK GREENWAY
 CITY OF CUYAHOGA FALLS

BID SET

DATE: _____

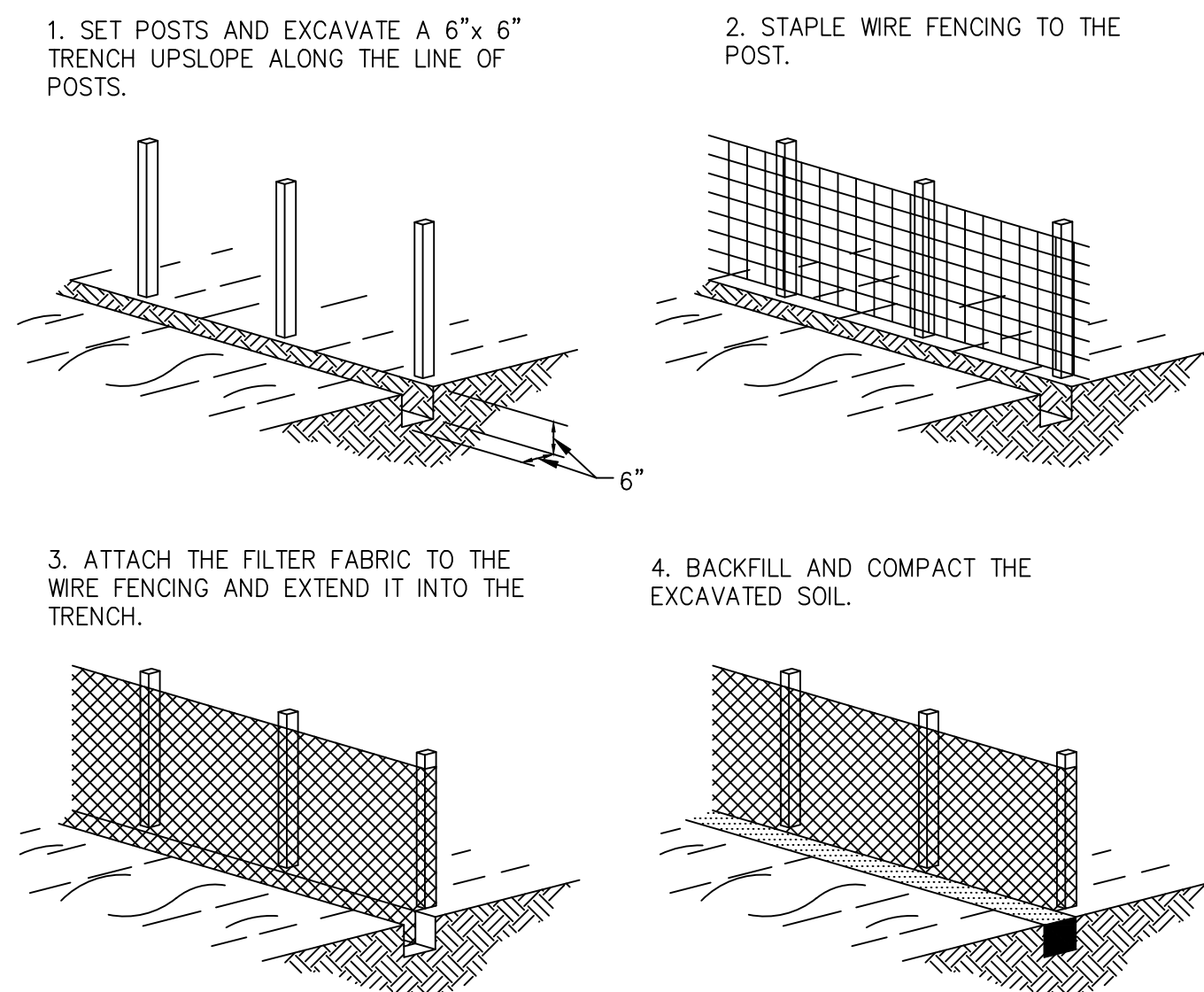
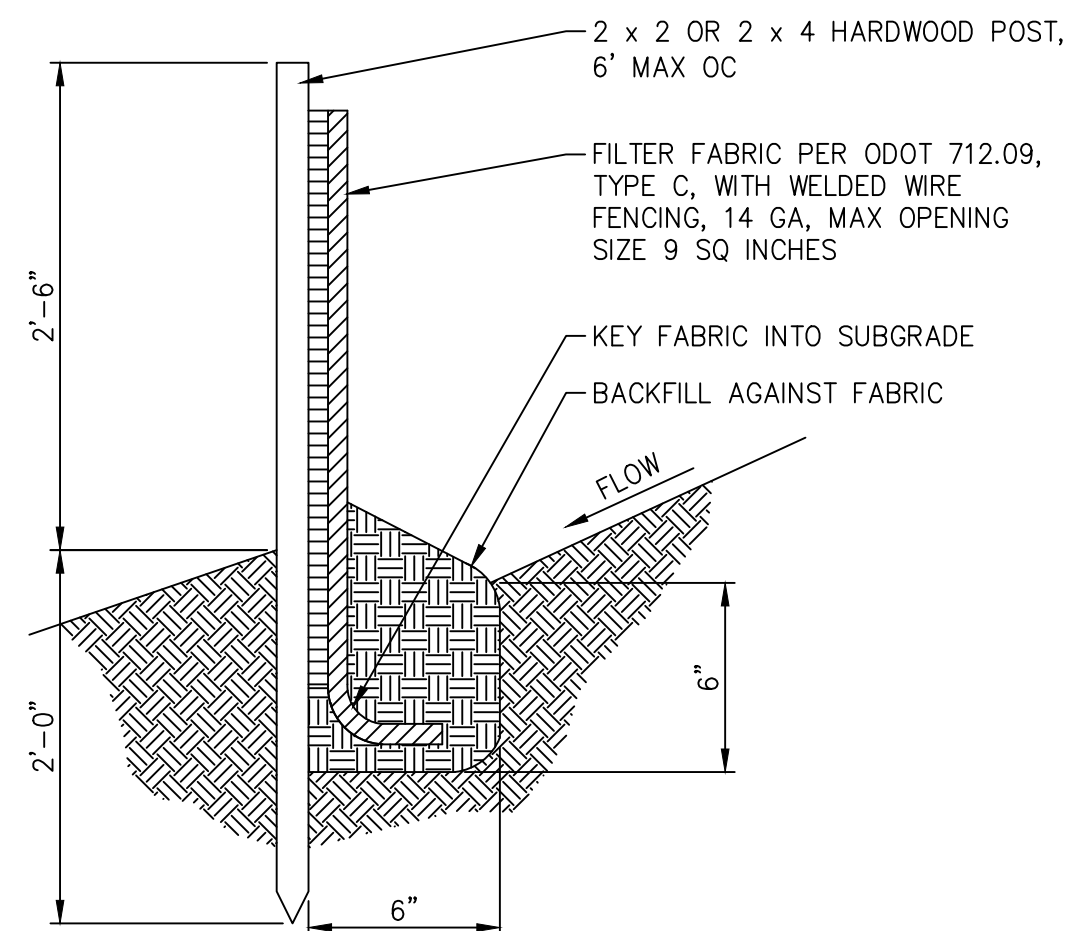
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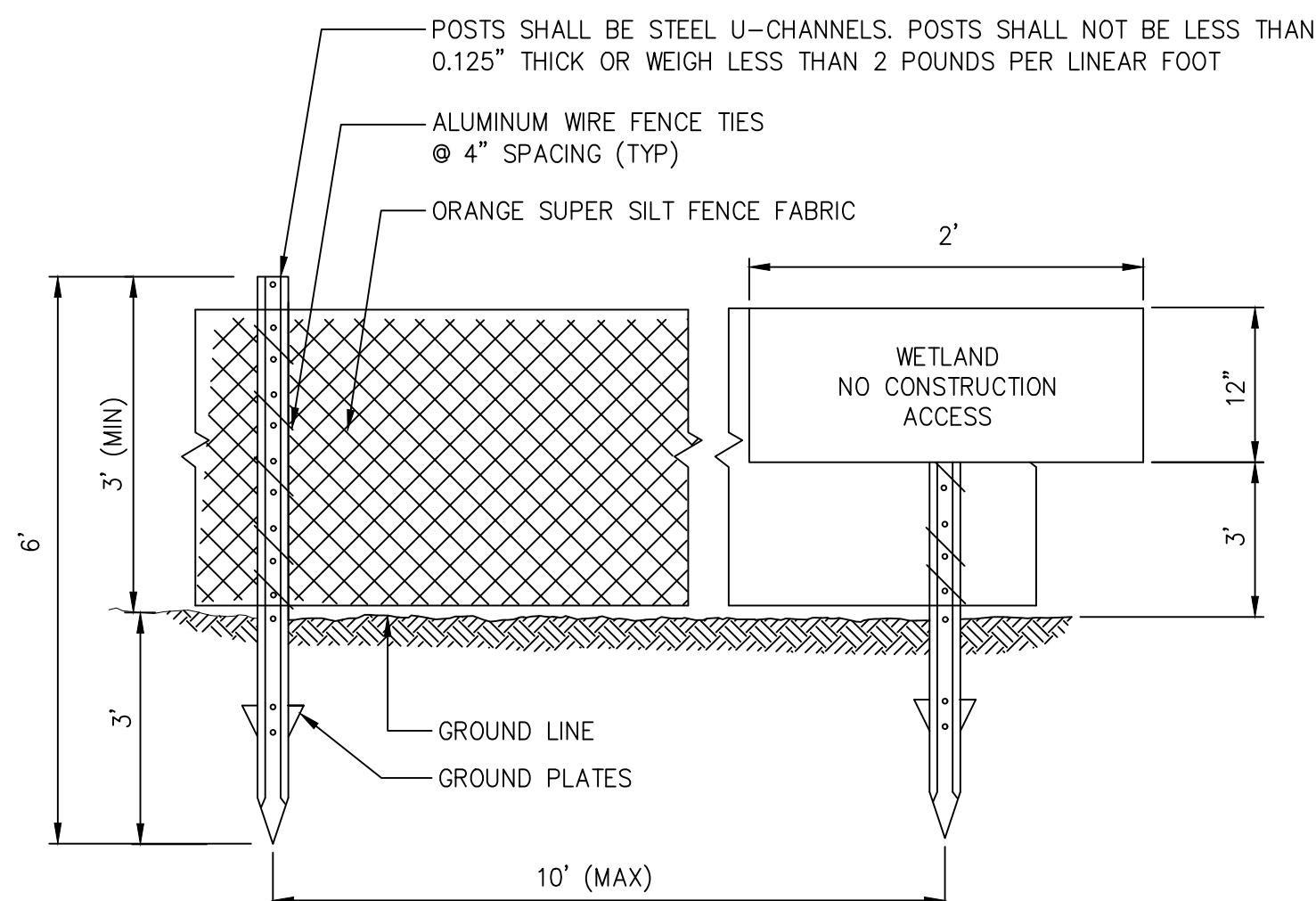
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NOTES:

- FENCING SHALL BE INSTALLED ALONG THE PERIMETER OF WETLAND AREA PRIOR TO START OF CONSTRUCTION AS INDICATED ON THE DRAWINGS. SIGNS WILL BE INSTALLED AT 50 FEET OC ALONG THE FENCED IN PROTECTION. SIGNS AND FENCING SHALL BE MAINTAINED THROUGHOUT THE PROJECT AND REMOVED AS DIRECTED BY THE ENGINEER.
- INSTALL FENCE FABRIC ON WINDWARD SIDE OF POSTS.

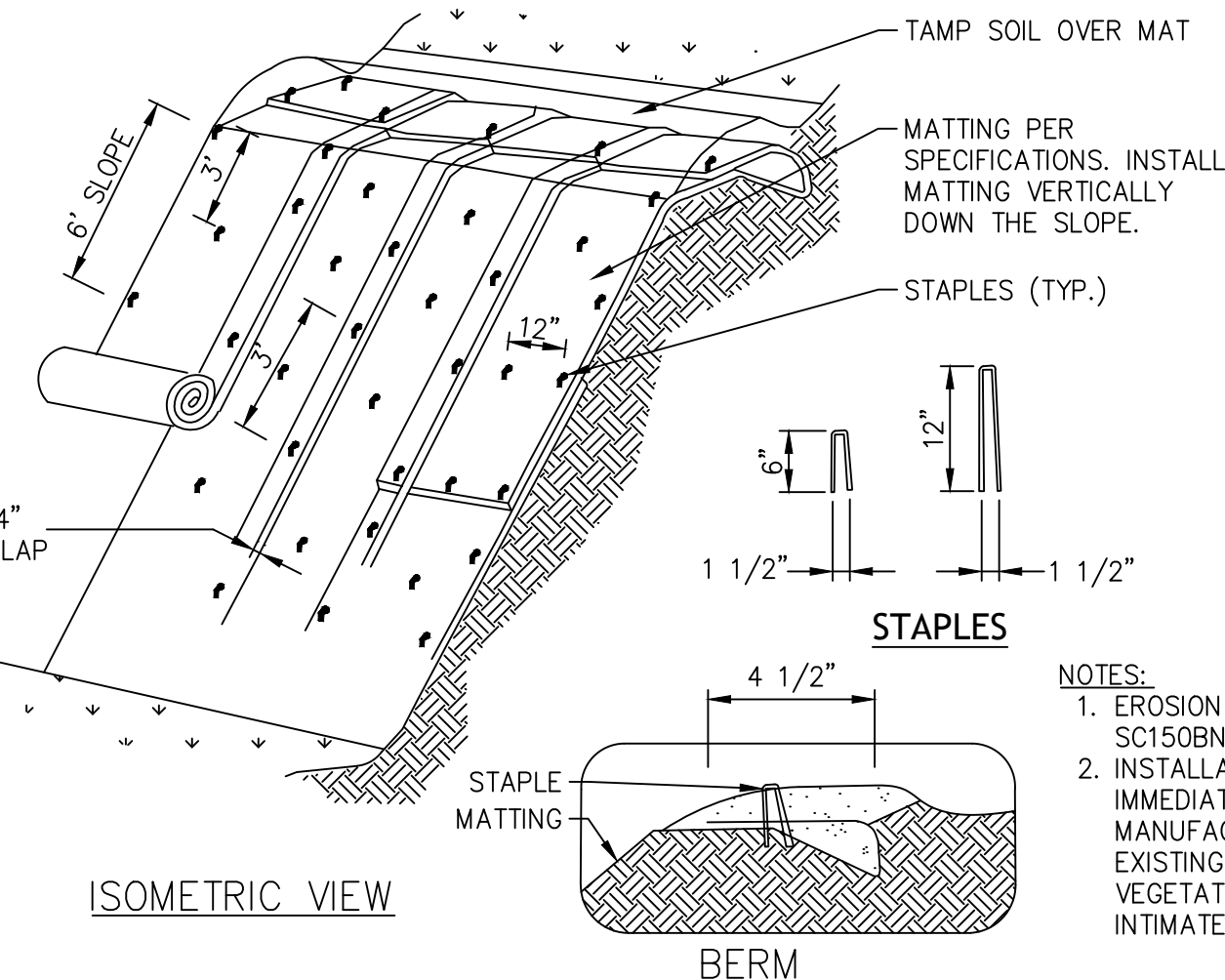
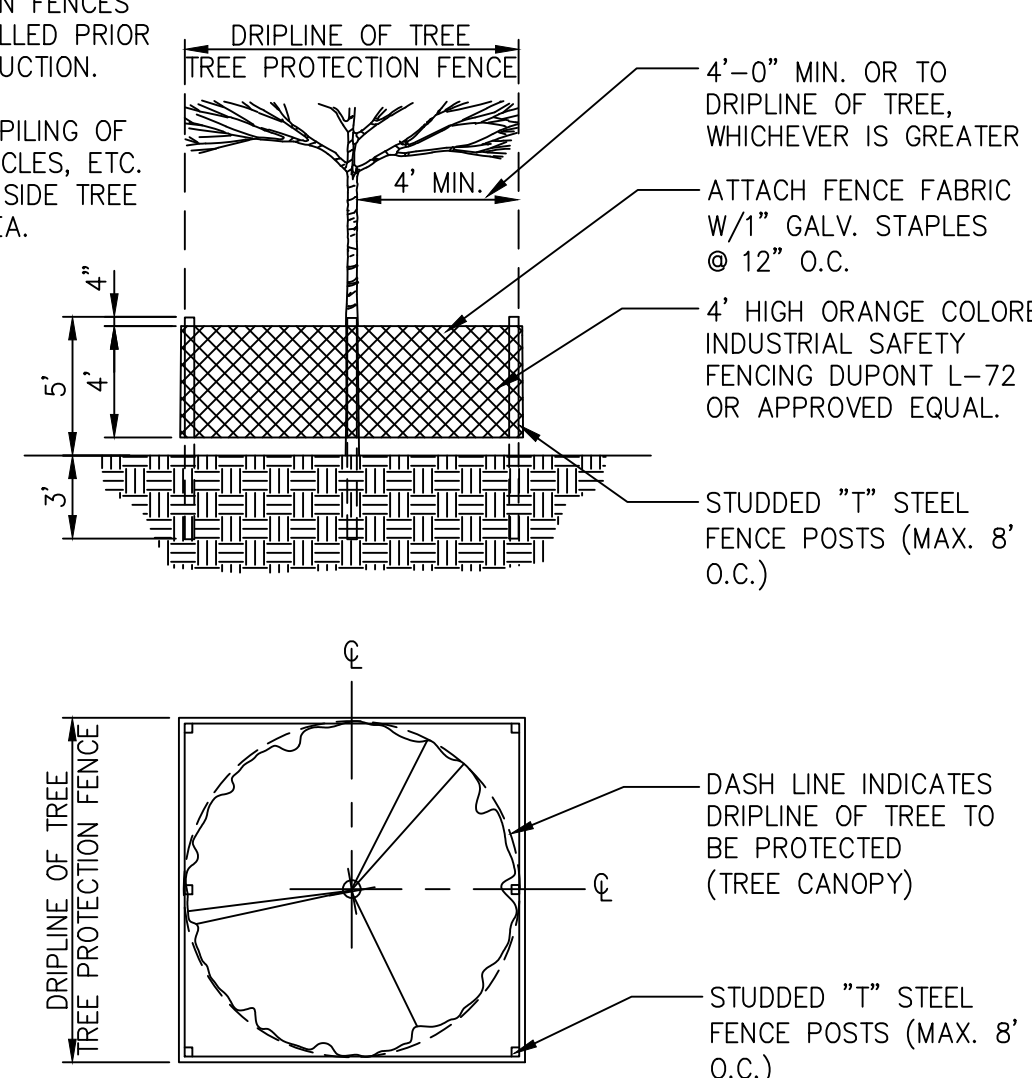


2 WETLAND PROTECTION FENCE
23 NOT TO SCALE

1 SILT FENCE
23 NOT TO SCALE

NOTES:

- TREE PROTECTION FENCES SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION.
- GRADING, STOCKPILING OF MATERIALS, VEHICLES, ETC. NOT ALLOWED INSIDE TREE PROTECTION AREA.



NOTES:

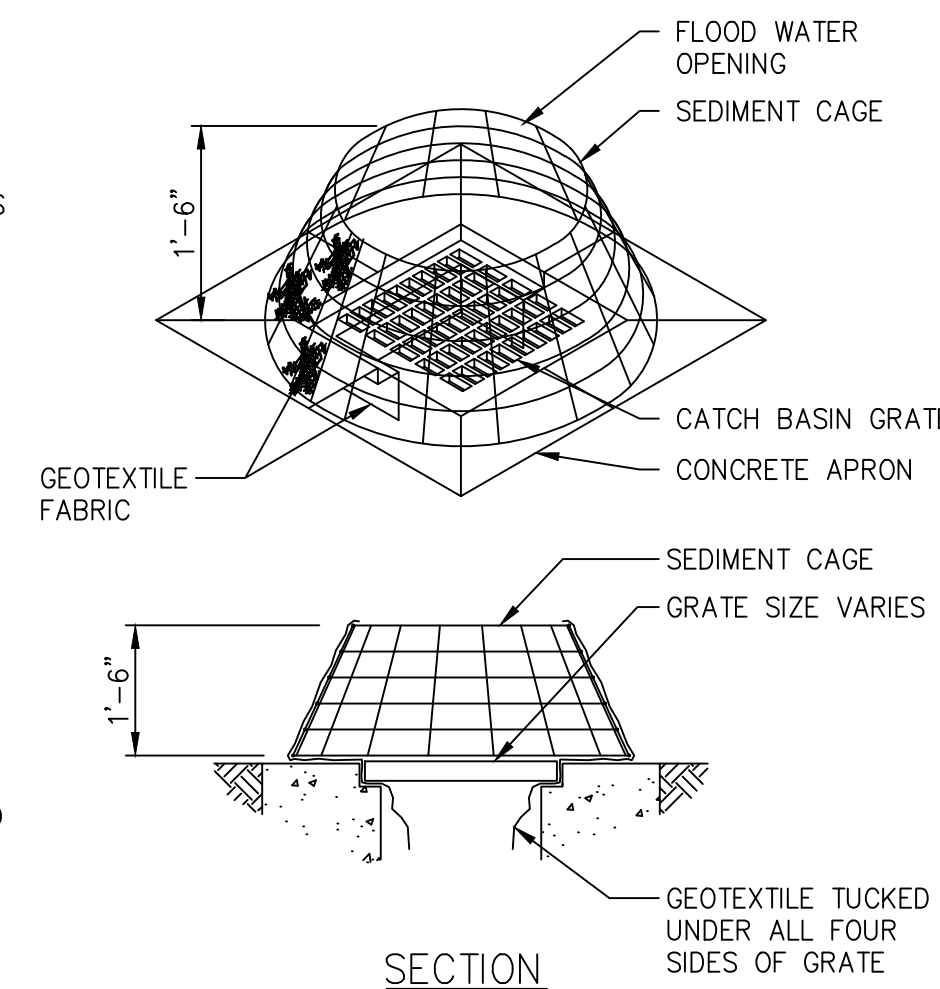
- EROSION CONTROL BLANKET SHALL BE AMERICAN GREEN TYPE SC150BN OR APPROVED EQUIVALENT.
- INSTALLATION OF EROSION CONTROL BLANKET SHALL OCCUR IMMEDIATELY UPON COMPLETION OF SEEDING ACCORDING TO MANUFACTURER'S RECOMMENDATIONS ACCORDING TO DETAIL. THE EXISTING GROUND SURFACE SHALL BE SMOOTH AND FREE OF VEGETATION PRIOR TO INSTALLATION OF BLANKET TO ENSURE INTIMATE CONTACT WITH THE SOIL.

3 TREE PROTECTION FENCE
23 NOT TO SCALE

4 EROSION CONTROL MATTING
23 NOT TO SCALE

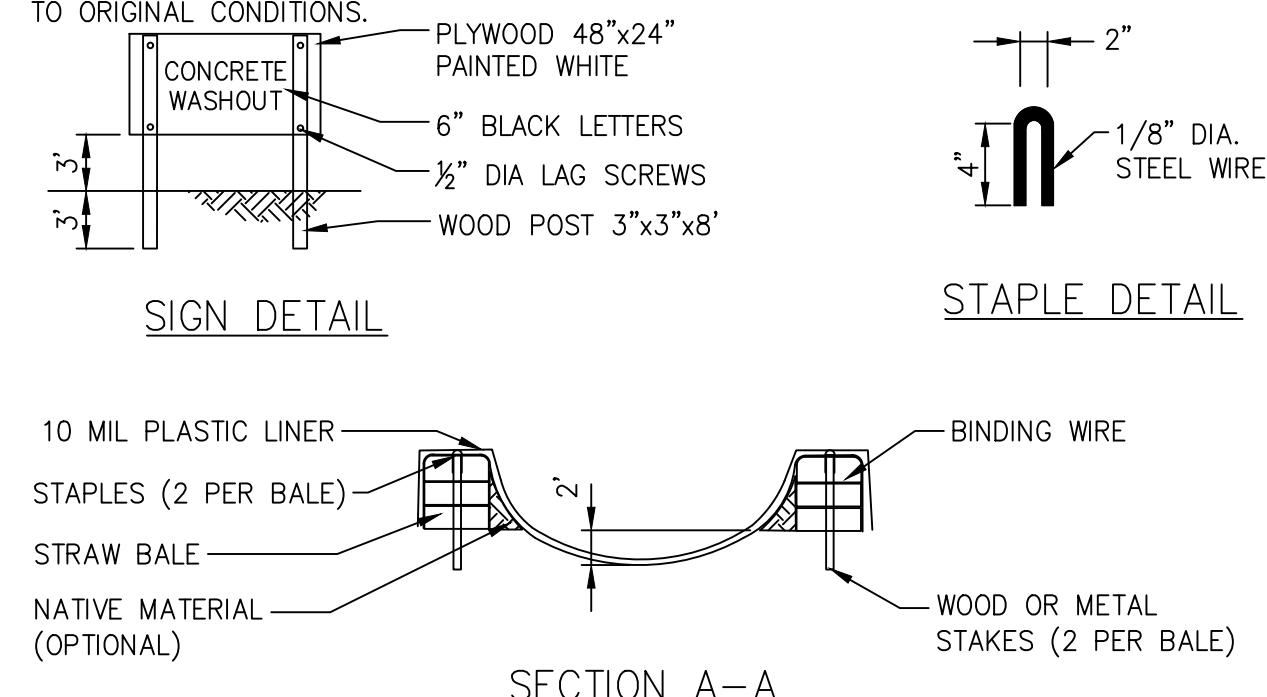
NOTES:

- INLET PROTECTION SHALL BE INSTALLED AT THE TIME THE STRUCTURE IS SET.
- TO INSTALL, TUCK FABRIC UNDER GRATE.
- REMOVE SEDIMENT WHEN IT ACCUMULATES TO ONE HALF THE HEIGHT OF THE SEDIMENT CAGE.
- THE AREA AROUND THE SEDIMENT CAGE SHOULD BE AS FLAT AS POSSIBLE TO INCREASE EFFECTIVENESS AND REDUCE MAINTENANCE REQUIREMENTS.
- A COMPACTED EARTH DIKE OR A CHECK DAM SHALL BE CONSTRUCTED IN THE DITCH LINE BELOW THE INLET IF THE INLET IS NOT IN A DEPRESSION AND IF RUNOFF BYPASSING THE INLET WILL NOT FLOW TO A SETTLING POND. THE TOP OF THE EARTH DIKE SHALL BE AT LEAST 6" HIGHER THAN THE TOP OF THE SEDIMENT CAGE.
- THE TOP OF THE SEDIMENT CAGE SHOULD BE AT LEAST 6" BELOW ADJACENT ROADS IF PONDED WATER WOULD POSE A SAFETY HAZARD TO TRAFFIC. THE SEDIMENT CAGE MAY BE CUT DOWN TO OBTAIN THE MINIMUM CLEARANCE.



NOTES:

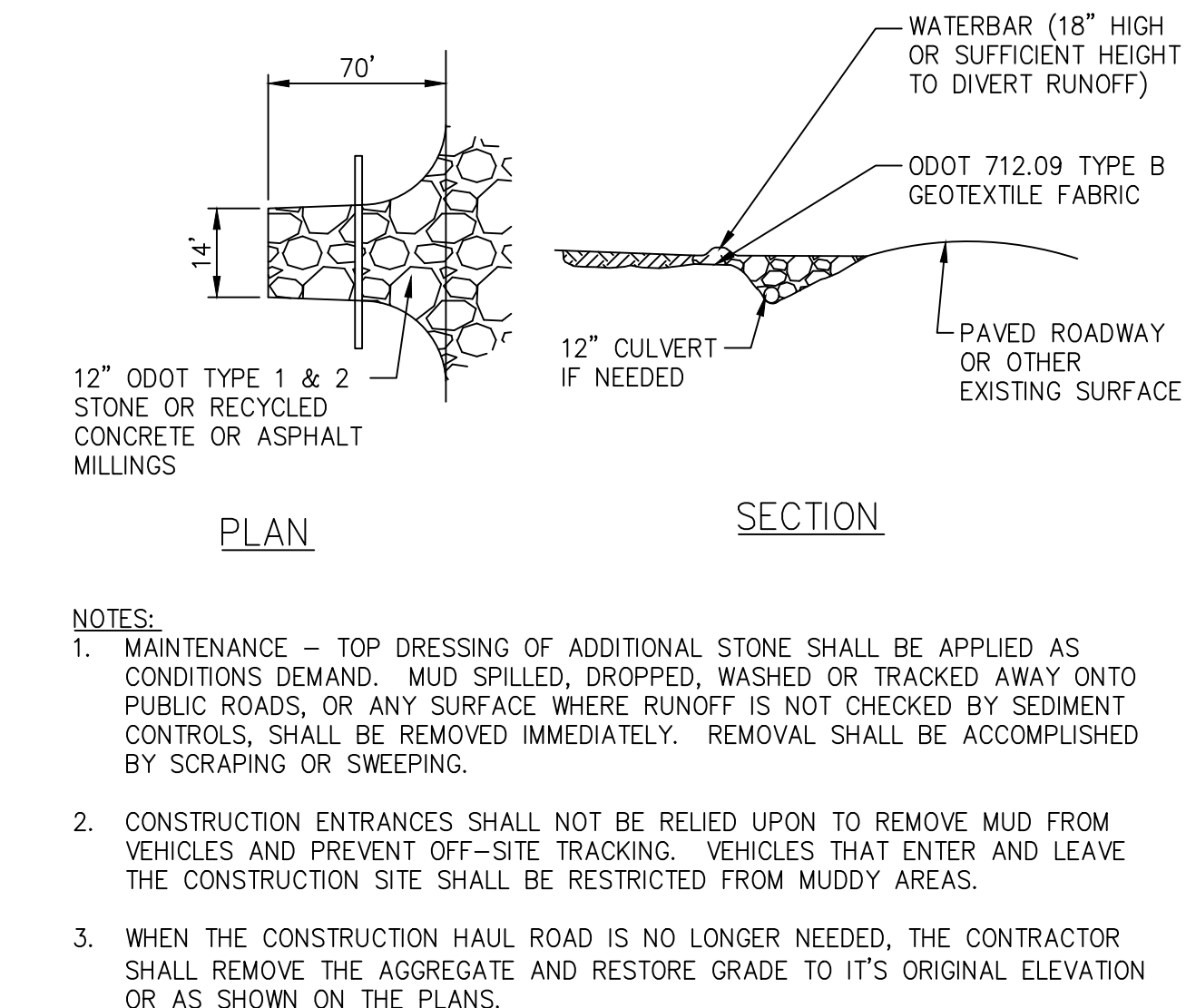
- ACTUAL LAYOUT AND SIZE TO BE DETERMINED IN THE FIELD.
- THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FT OF THE TEMPORARY WASHOUT FACILITY.
- AS WASHOUT BECOMES FULL, IT SHALL BE REMOVED AND REPLACED.
- AFTER CONSTRUCTION COMPLETION, CONTRACTOR SHALL REMOVE AND DISPOSE OF CONCRETE WASHOUT AND SHALL RESTORE AREA AS SHOWN ON PLANS OR BACK TO ORIGINAL CONDITIONS.

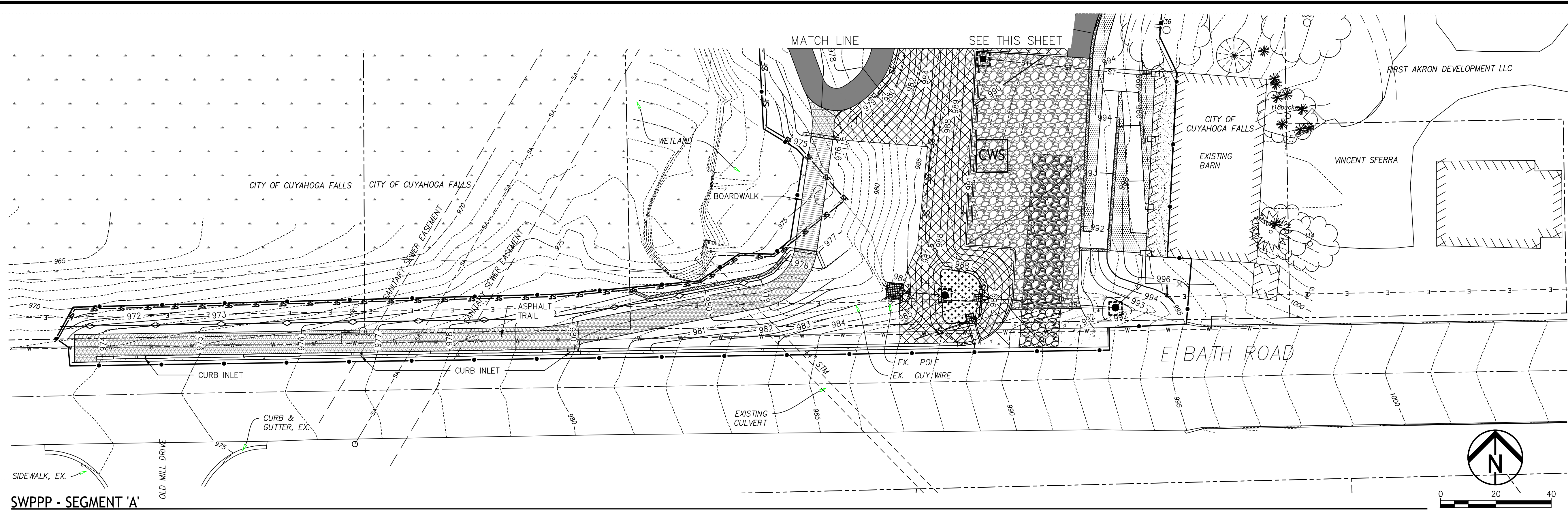


6 INLET PROTECTION
23 NOT TO SCALE

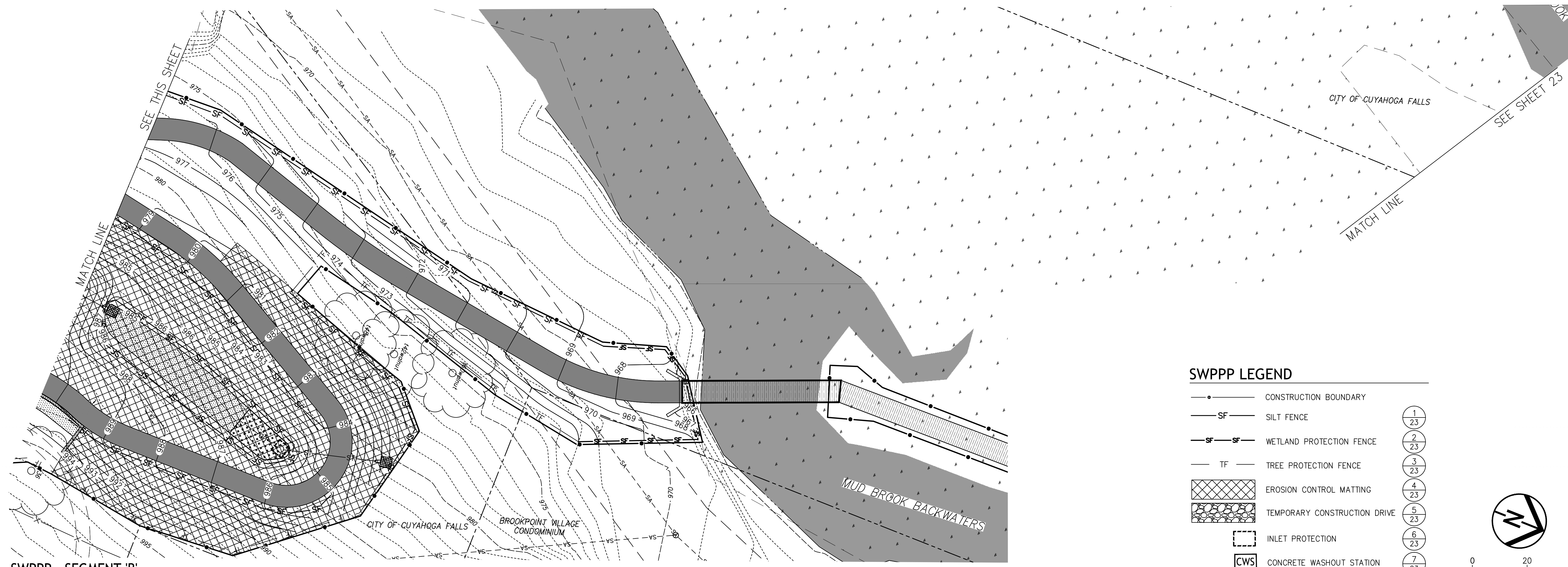
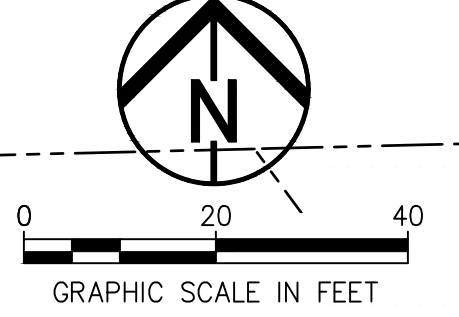
7 CONCRETE WASHOUT STATION
23 NOT TO SCALE

5 TEMPORARY CONSTRUCTION DRIVE
23 NOT TO SCALE





SWPPP - SEGMENT 'A'

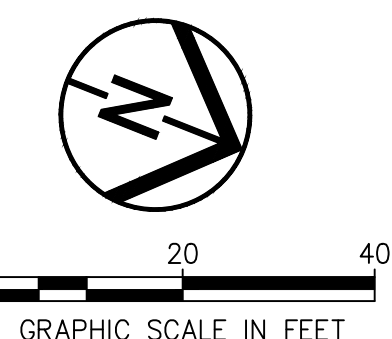


SWPPP - SEGMENT 'B'

SWPPP LEGEND

- CONSTRUCTION BOUNDARY
- SF— SILT FENCE
- SF—SF— WETLAND PROTECTION FENCE
- TF— TREE PROTECTION FENCE
- [Cross-hatched] EROSION CONTROL MATTING
- [Stippled] TEMPORARY CONSTRUCTION DRIVE
- [Dashed] INLET PROTECTION
- [Box with CWS] CONCRETE WASHOUT STATION

- 1
23
- 2
23
- 3
23
- 4
23
- 5
23
- 6
23
- 7
23



MILL POND-MUD BROOK GREENWAY
CITY OF CUYAHOGA FALLS



BID SET

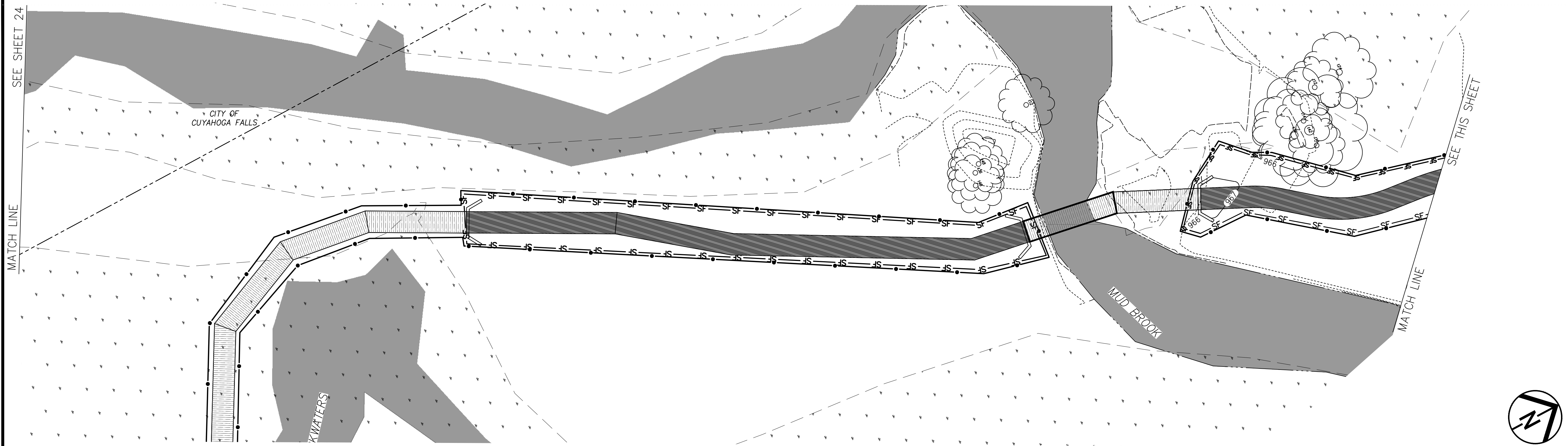
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REVISIONS		
Δ	DATE	DESCRIPTION

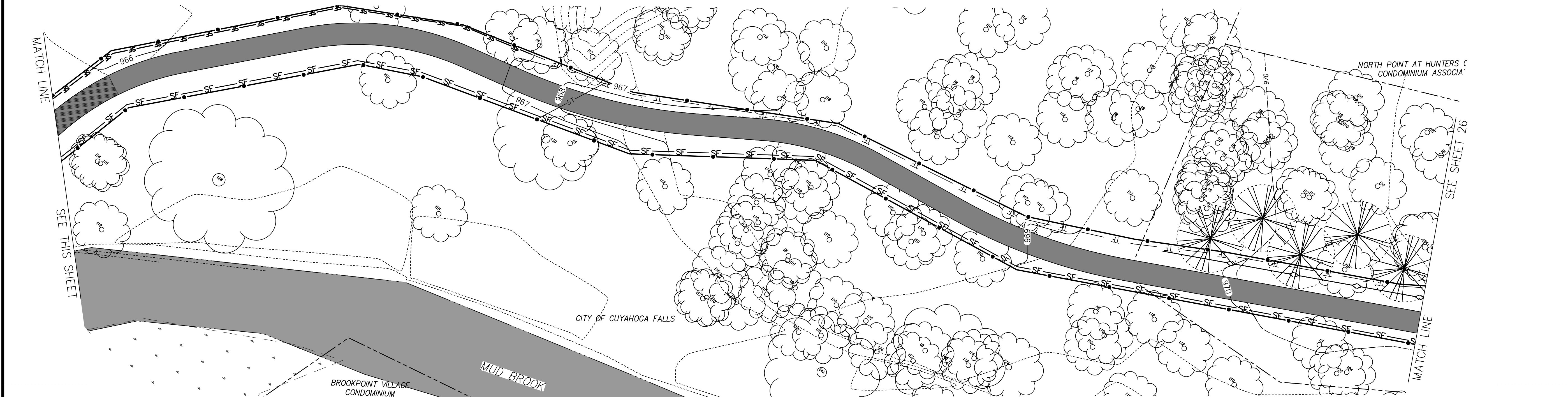
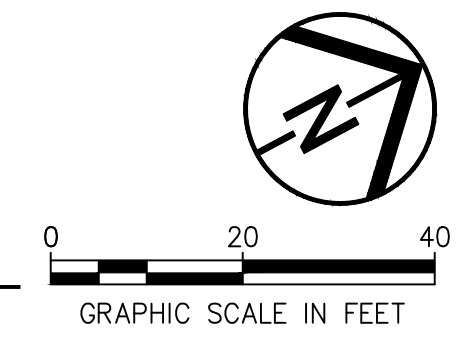
PROJECT NO.: 14-00436-060
DRAWN BY: RB
CHECKED BY: KGH
DATE ISSUED: 2/19/2021

SWPPP - 'A' & 'B'

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SWPPP - SEGMENT 'C'



SWPPP - SEGMENT 'D'

SWPPP LEGEND

- CONSTRUCTION BOUNDARY
- SF— SILT FENCE
- ▲— WETLAND PROTECTION FENCE
- TF— TREE PROTECTION FENCE
- [Cross-hatched box] EROSION CONTROL MATTING
- [Stippled box] TEMPORARY CONSTRUCTION DRIVE
- [Dashed box] INLET PROTECTION

1
23

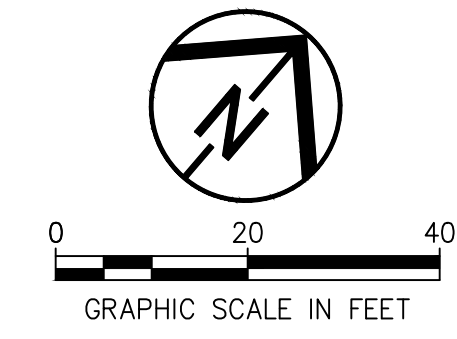
2
23

3
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23

6
23



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MILL POND-MUD BROOK GREENWAY
CITY OF CUYAHOGA FALLS



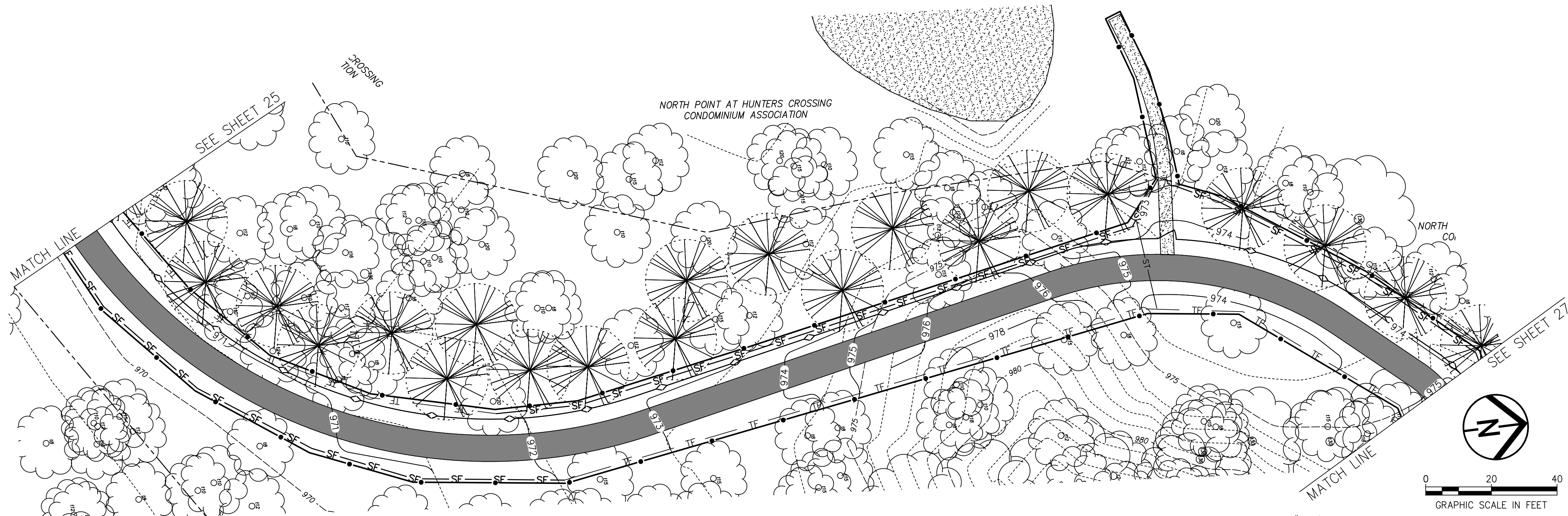
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DATE: _____

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NO.	DATE	DESCRIPTION

PROJECT NO.: 14-00436-060
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CHECKED BY: KGH
DATE ISSUED: 2/19/2021

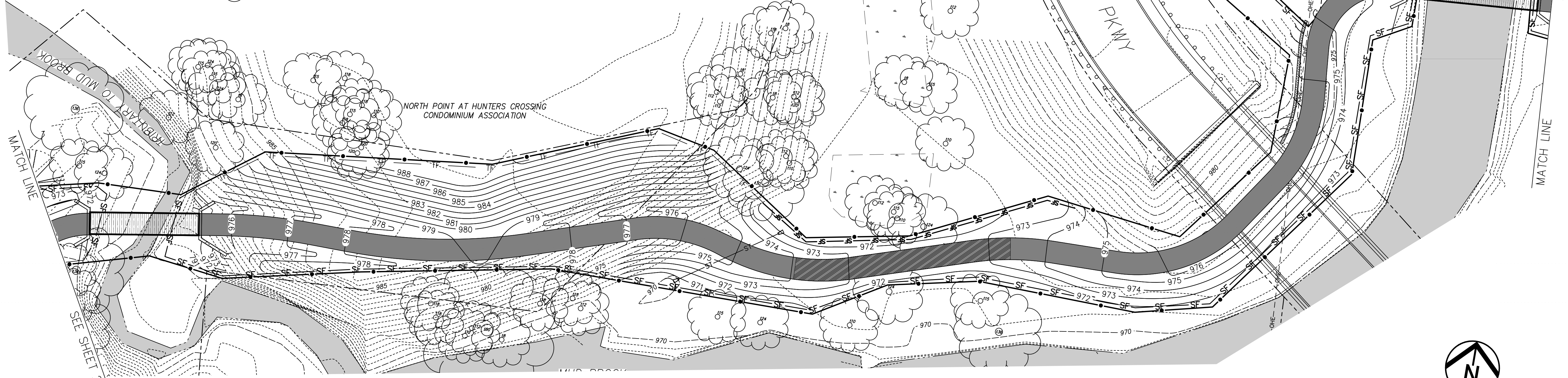
SWPPP - 'C' & 'D'



SWPPP - SEGMENT 'E'

SWPPP LEGEND

- CONSTRUCTION BOUNDARY
 - SF— SILT FENCE
 - SF—SF— WETLAND PROTECTION FENCE
 - TF— TREE PROTECTION FENCE
 - [X] EROSION CONTROL MATTING
 - [●] TEMPORARY CONSTRUCTION DRIVE
 - [] INLET PROTECTION
 - [CWS] CONCRETE WASHOUT STATION
- | | |
|---|----|
| 1 | 23 |
| 2 | 23 |
| 3 | 23 |
| 4 | 23 |
| 5 | 23 |
| 6 | 23 |
| 7 | 23 |



SWPPP - SEGMENT 'F'

**MILL POND-MUD BROOK
 GREENWAY**
 CITY OF CUYAHOGA FALLS



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DATE: _____

REVISIONS		
Δ	DATE	DESCRIPTION

PROJECT NO.: 14-00436-060
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 CHECKED BY: KGH
 DATE ISSUED: 2/19/2021

SWPPP - 'E' & 'F'

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MILL POND-MUD BROOK GREENWAY
 CITY OF CUYAHOGA FALLS

BID SET

DATE:

REVISIONS

NO.	DATE	DESCRIPTION

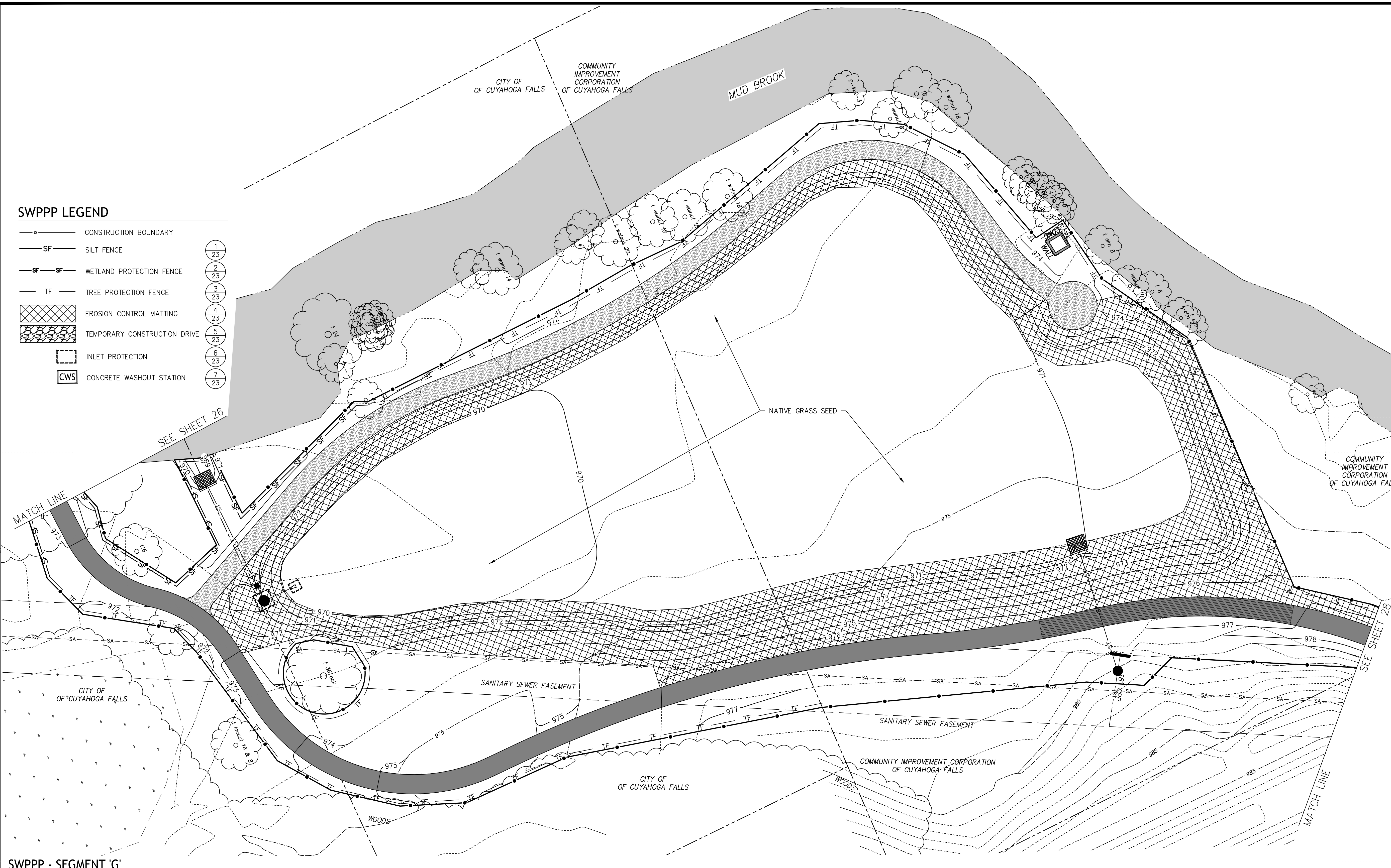
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DRAWN BY: RB

CHECKED BY: KGH

DATE ISSUED: 2/19/2021

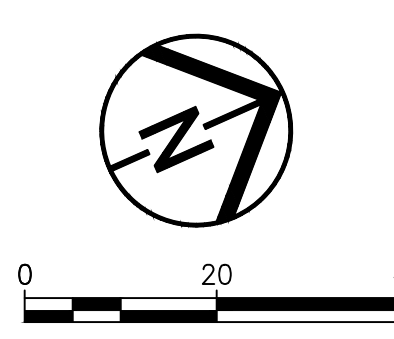
SWPPP - 'G'



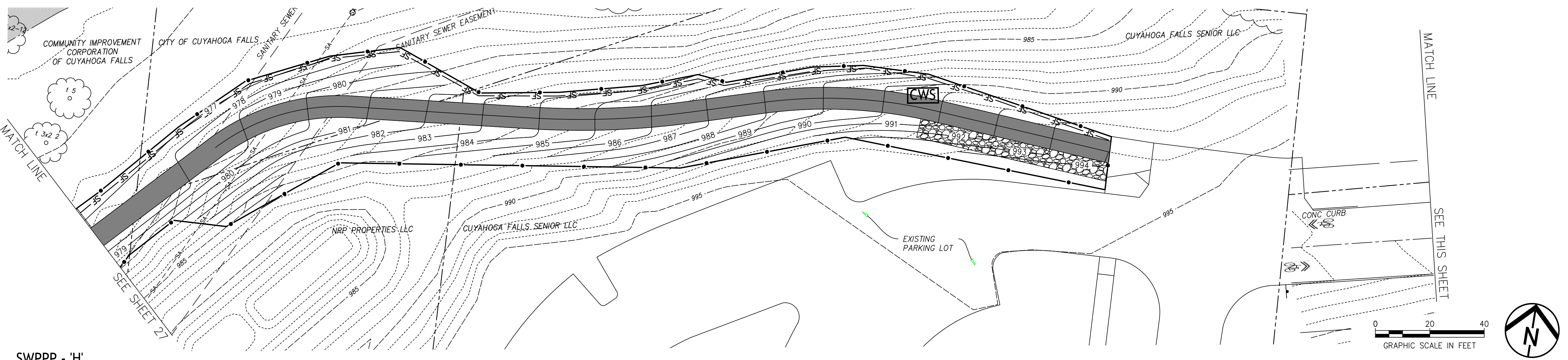
- SWPPP LEGEND**
- CONSTRUCTION BOUNDARY
 - SF— SILT FENCE
 - WPF— WETLAND PROTECTION FENCE
 - TF— TREE PROTECTION FENCE
 - [Cross-hatch pattern] EROSION CONTROL MATTING
 - [Stippled pattern] TEMPORARY CONSTRUCTION DRIVE
 - [Dashed box] INLET PROTECTION
 - [Square with 'CWS'] CONCRETE WASHOUT STATION

- 1 23
- 2 23
- 3 23
- 4 23
- 5 23
- 6 23
- 7 23

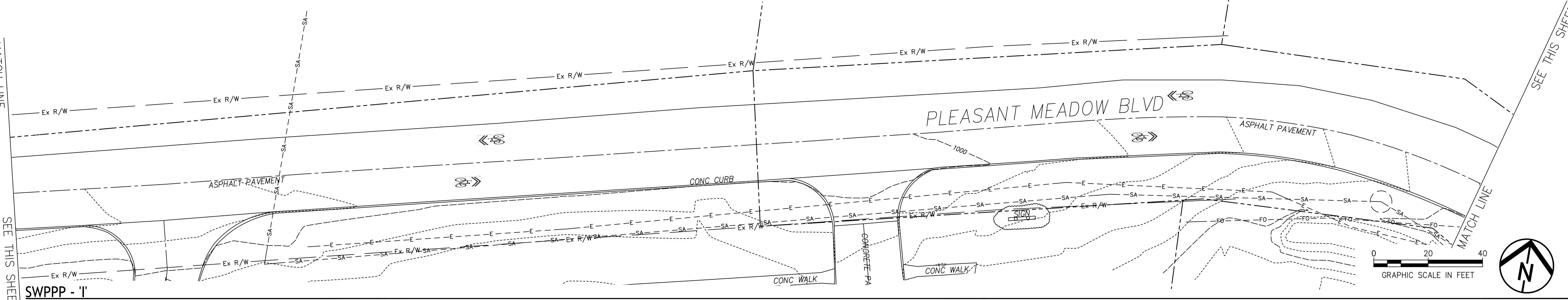
SWPPP - SEGMENT 'G'



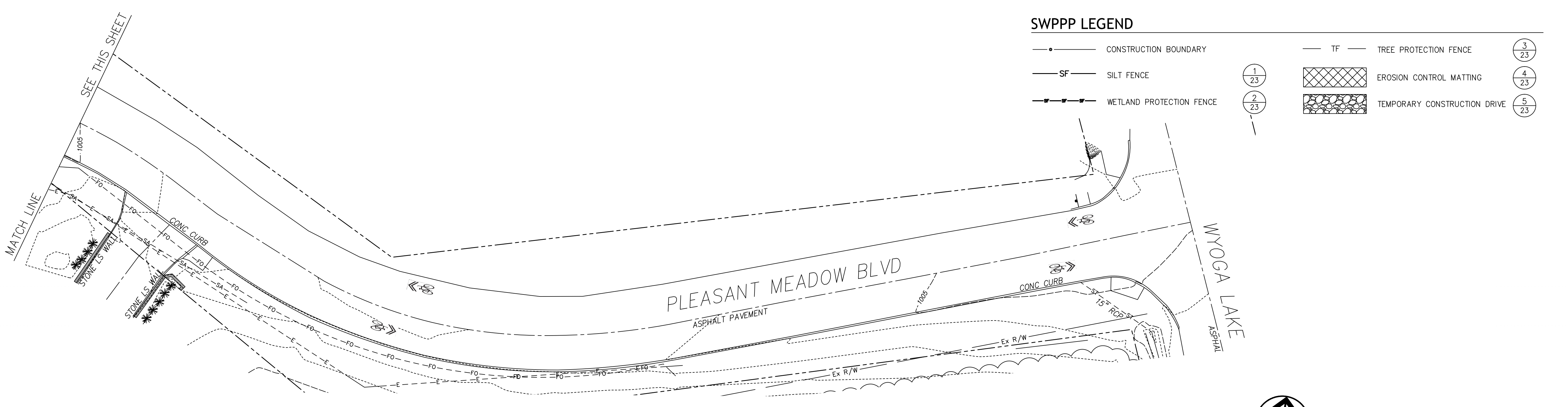
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SWPPP - 'H'



SWPPP - 'I'



SWPPP - 'J'

SWPPP LEGEND

- CONSTRUCTION BOUNDARY
- SF— SILT FENCE
- W— WETLAND PROTECTION FENCE
- TF— TREE PROTECTION FENCE
- [Cross-hatch pattern] EROSION CONTROL MATTING
- [Stippled pattern] TEMPORARY CONSTRUCTION DRIVE

- (1/23)
- (2/23)
- (3/23)
- (4/23)
- (5/23)

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MILL POND-MUD BROOK GREENWAY
CITY OF CUYAHOGA FALLS



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DATE ISSUED: 2/19/2021

SWPPP - 'H'-'J'
STA 135+44 TO 140+28

PLANTING SCHEDULE - BASE							
KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	NOTES	HEIGHT	WIDTH
Shrubs							
PI-AB	26	Picea abies	Norway Spruce	6' Height	B&B	6'	Per Plan
Shrubs							
CE-MB	10	Cephalanthus o. 'Magical Moonlight'	Magical Moonlight Buttonbush	24" (#3 Cont.)	-	5-6'	4-6'
Ornamental Grasses/Perennials							
CA-KF	20	Calamagrostis ac. 'Karl Foerster'	Karl Foerster Feather Reed Grass	#2 Cont.		3-5'	2-3'
EC-PW	33	Echinacea purpurea 'Pow Wow Wild Berry'	Pow Wow Wild Berry Coneflower	#1 Cont.	18" o.c.	24"	15"
EU-GA	7	Eupatorium maculatum 'Gateway'	Gateway Joy Pye Weed	#2 Cont.	4' o.c.	5-6'	3-4'
SP-HE	38	Sporobolus heterolepis	Prairie Dropseed	#2 Cont.	36" o.c.	2-3'	24"
PLANTING SCHEDULE - ALTERNATE 1							
Shrubs							
BU-GG	10	Buxus x 'Green Gem'	Green Gem Boxwood	15"	B&B	2'	2'
JU-BS	18	Juniperus squamata 'Blue Star'	Blue Star Juniper	15" (#3 Cont.)	-	2'	4'
SP-GM	20	Spiraea x 'Goldmound'	Goldmound Spiraea	15" (#3 Cont.)	-	18-24"	2-3'
SY-ME	3	Syringa meyeri	Palatin Lilac	24"	B&B	4-6'	5-7'
Ornamental Grasses/Perennials							
PE-LS	3	Perovskia atriplicifolia 'Little Spire'	Little Spire Russian Sage	#1 Cont.	24" o.c.	30"	24"
SA-MA	12	Salvia nemorosa 'Marcus'	Marcus Perennial Sage	#1 Cont.	24" o.c.	10"	24"
TH-MI	14	Thymus serpyllum 'Minus'	Creeping Thyme	#1 Cont.	12" o.c.	12"	9"

LAYOUT PLAN LEGEND

TRAIL SECTION TYPES

- TYPE 1 - CHIP & SEAL TRAIL (1/30)
- TYPE 2 - CHIP & SEAL TRAIL (2/30)
- BOARDWALK (1/31)

PAVEMENT TYPES

- CONCRETE (8/30)
- VEHICULAR GRAVEL PAVEMENT (3/30)

PLANTING

- PLANTING BED; SEE LANDSCAPE PLAN SHEET 29 (5/35)
- BIORETENTION (6/35)
- TURFGRASS SEED AREA
- SHRUBS (3/35)
- PERENNIALS (4/35)

MISC.

- 4" UNDERDRAIN (---UD---
- STORM LINE (---ST---

BOUNDARIES

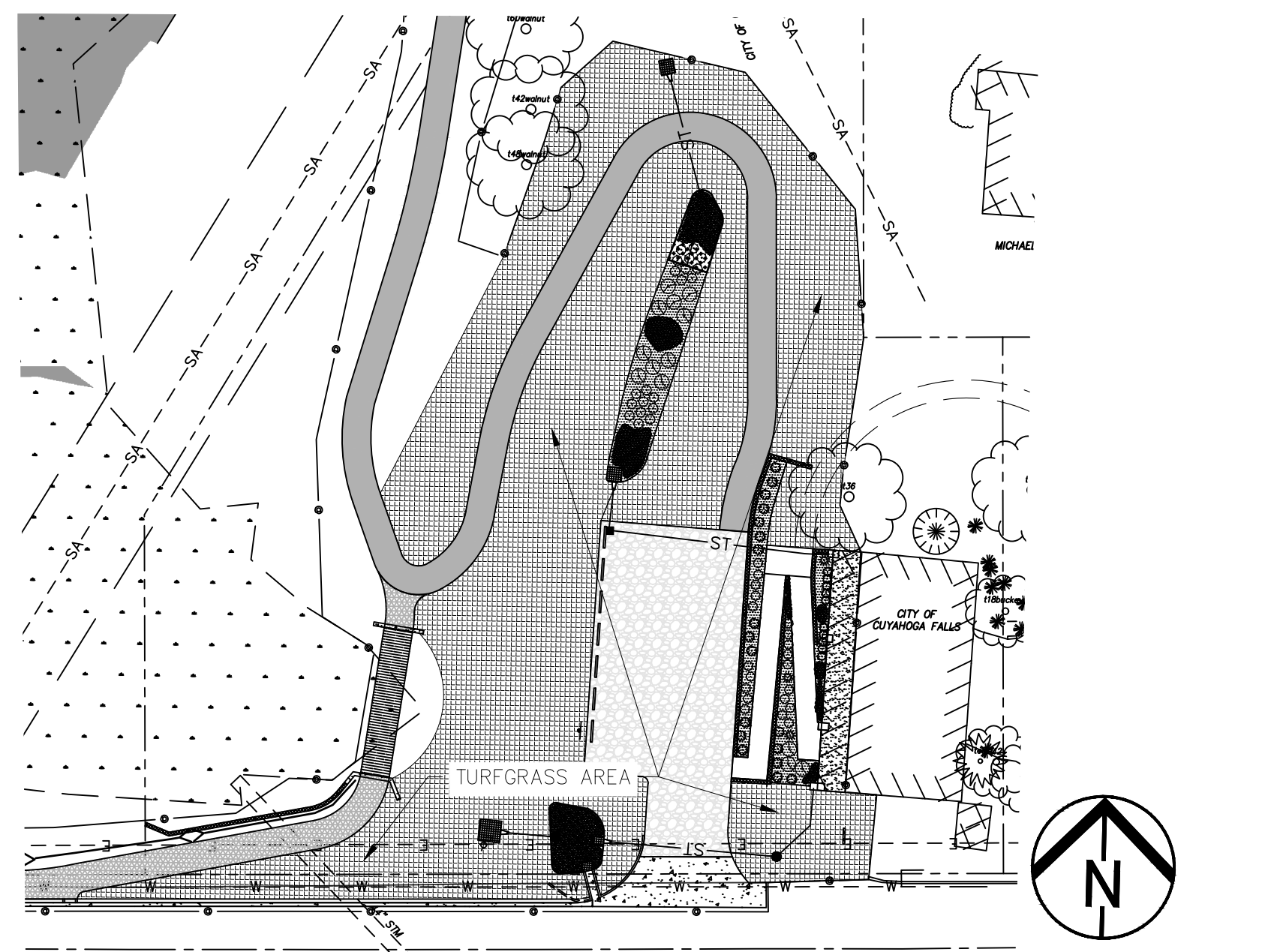
- CONSTRUCTION LIMITS

EXISTING CONDITIONS

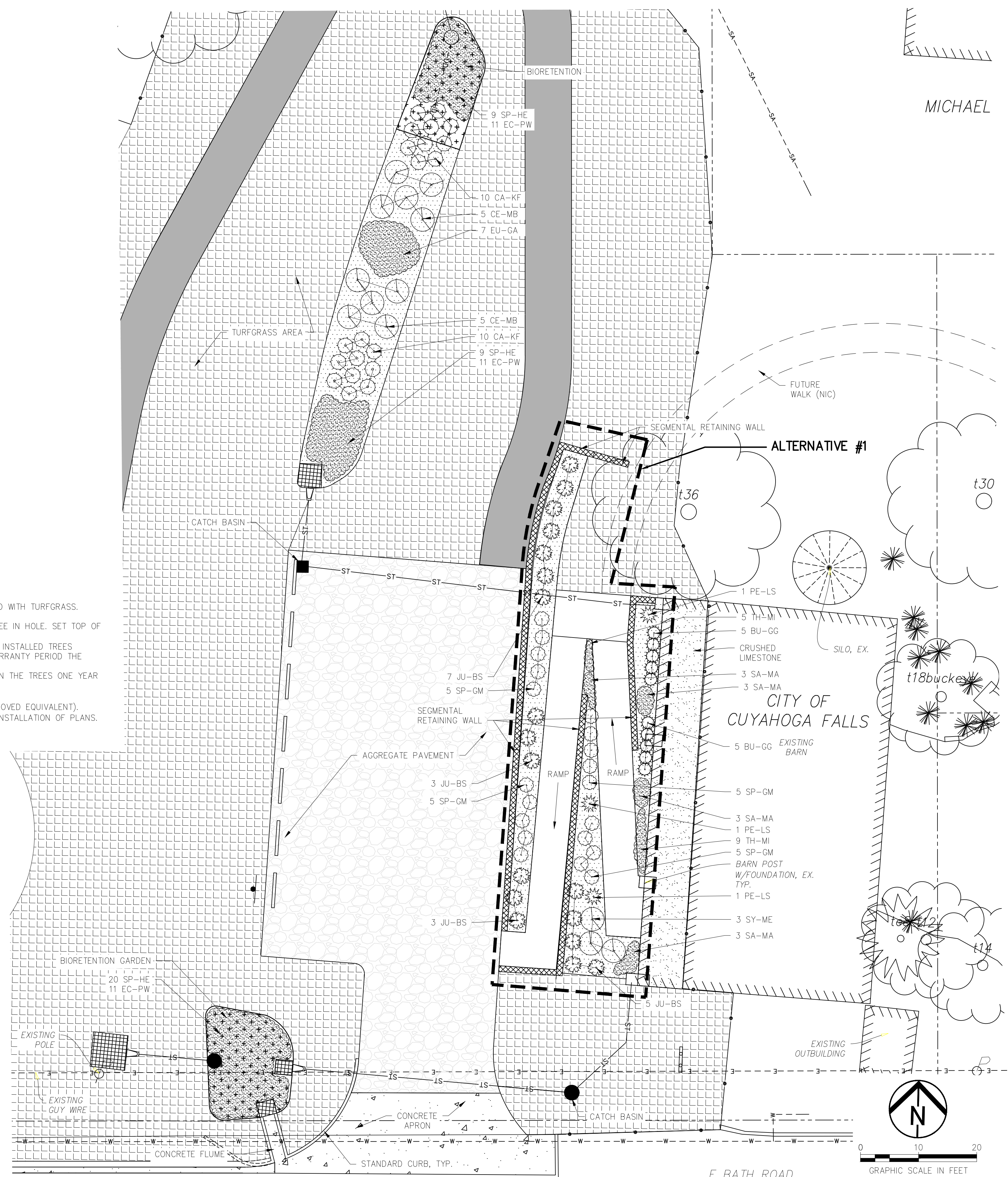
- EXISTING WETLAND
- EXISTING TREE TO REMAIN; SAVE AND PROTECT DURING CONSTRUCTION

NOTES:

- SEED ALL DISTURBED AREAS WITH NATIVE SEED MIX EXCEPT FOR AREAS SHOWN TO BE SEEDED WITH TURFGRASS.
- SEE SHEETS 15 & 16 FOR ADDITIONAL TREE PLANTINGS.
- REMOVE BURLAP, WIRE BASKETS AND TWINE FROM TOP AND SIDES OF ROOT BALL. CENTER TREE IN HOLE. SET TOP OF BALL 1" ABOVE FINISH GRADE.
- STAKING & GUYING TREES IS OPTIONAL, HOWEVER THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLED TREES STAYING PLUMB AND STABLE. IF A NON-STAKED TREE MOVES OUT OF PLUMB DURING THE WARRANTY PERIOD THE CONTRACTOR SHALL STRAIGHTEN & STAKE THE TREE AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL RETURN TO REMOVE ALL STAKES, GUYS & ASSOCIATED HARDWARE ON THE TREES ONE YEAR AFTER STAKING OR PER THE DIRECTION OF THE OWNER OR LANDSCAPE ARCHITECT.
- PLANTING MIX TO CONSIST OF 1" COMPOST PER 6" OF TOPSOIL.
- COMPOST SHALL CONSIST OF STERILIZED, COMPOSTED MATERIAL (SWEET PEAT OR OTHER APPROVED EQUIVALENT). CONTRACTOR SHALL SUBMIT SAMPLE TO OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO INSTALLATION OF PLANS.
- MULCH TO FORM CONTINUOUS SHRUB BEDS.



EXTENT OF TURFGRASS PLAN



LANDSCAPE PLAN



MILL POND-MUD BROOK GREENWAY
 CITY OF CUYAHOGA FALLS

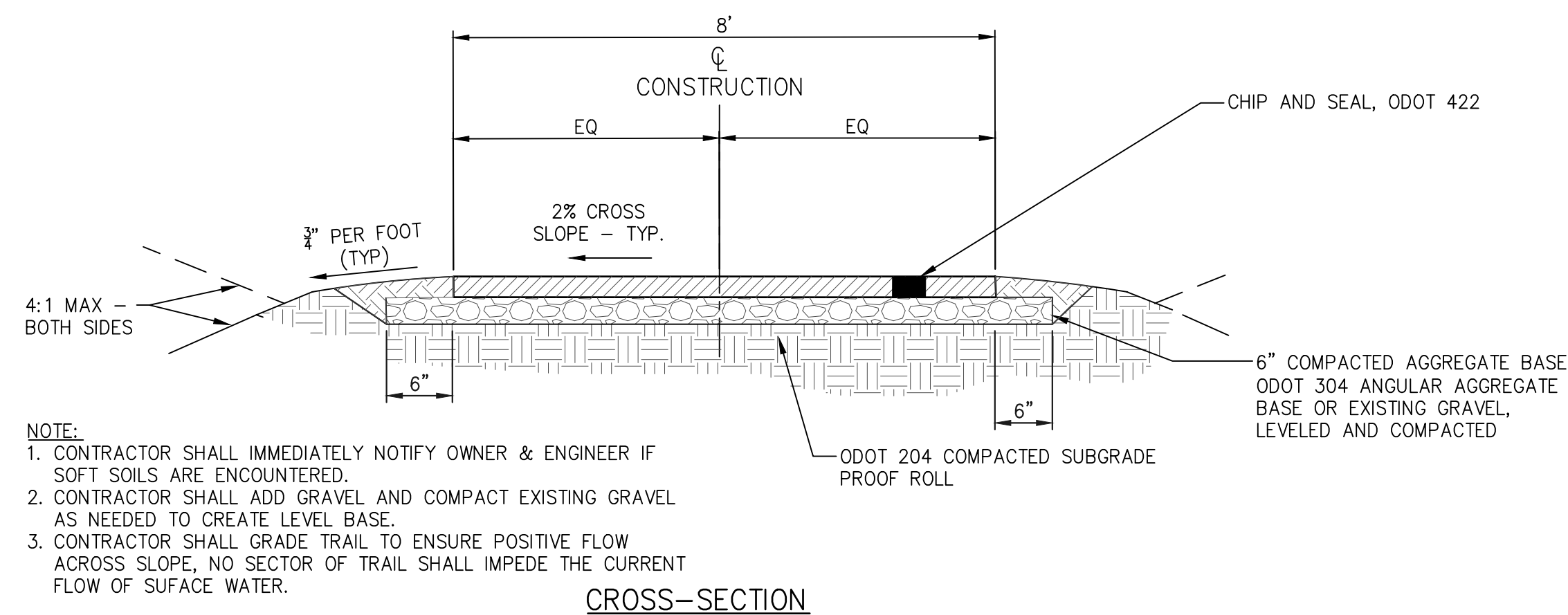


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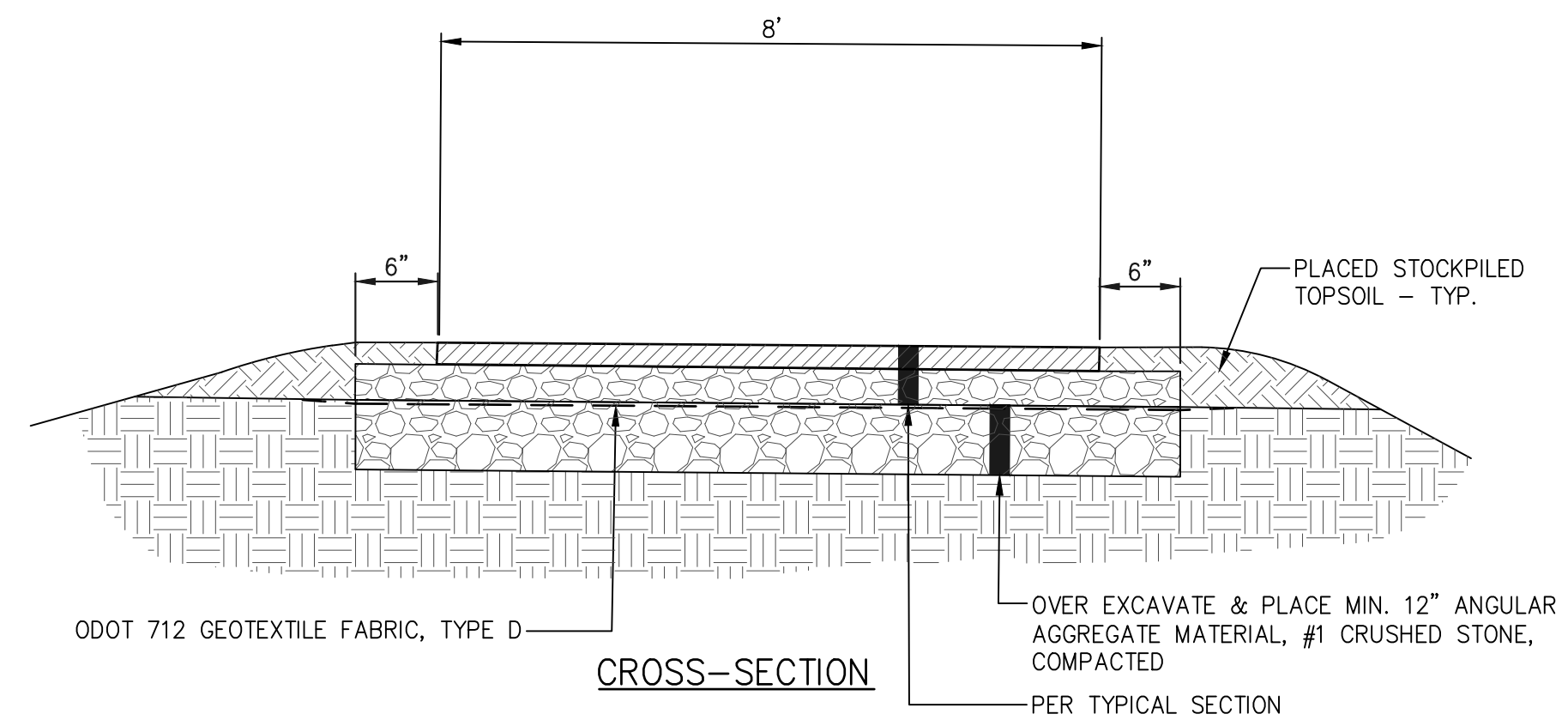
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NO.	DATE	DESCRIPTION

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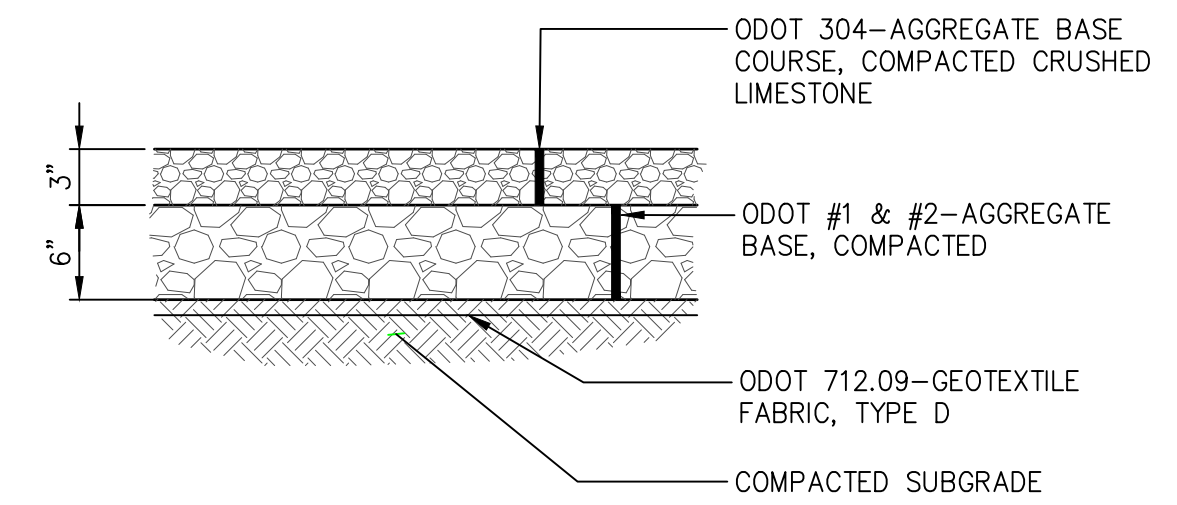
LANDSCAPE PLAN



1 CHIP & SEAL TRAIL - TYPE 1
30 NOT TO SCALE

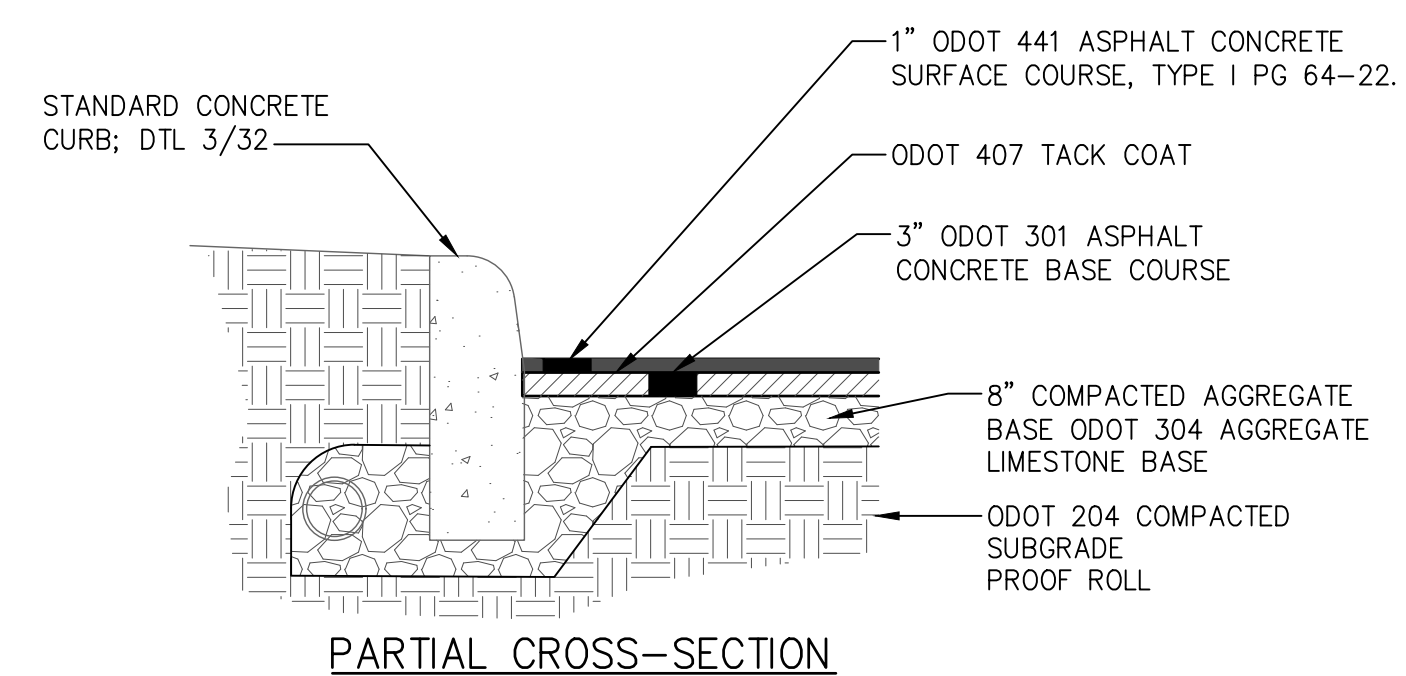


2 CHIP & SEAL TRAIL - TYPE 2
30 NOT TO SCALE



3 VEHICULAR GRAVEL PAVEMENT
30 NOT TO SCALE

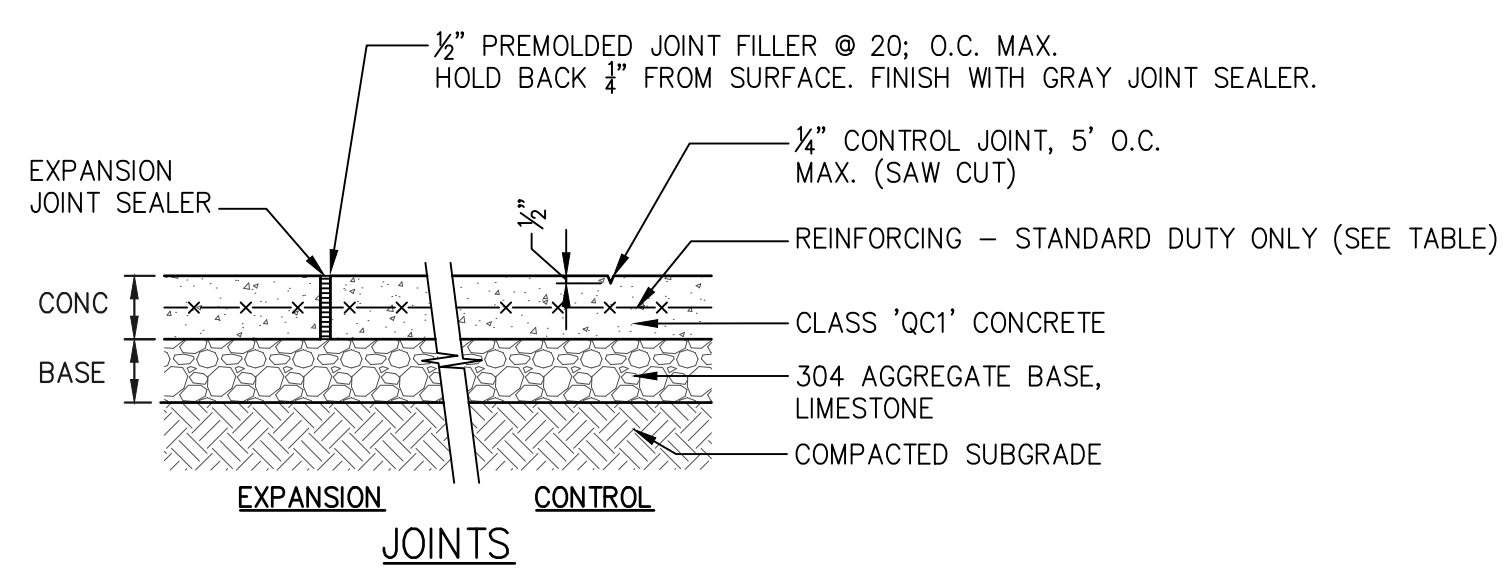
NOTE:
1. CONTRACTOR SHALL IMMEDIATELY NOTIFY OWNER IF SOFT SOILS ARE ENCOUNTERED.



4 VEHICULAR ASPHALT PAVEMENT (ALT #2)
30 NOT TO SCALE

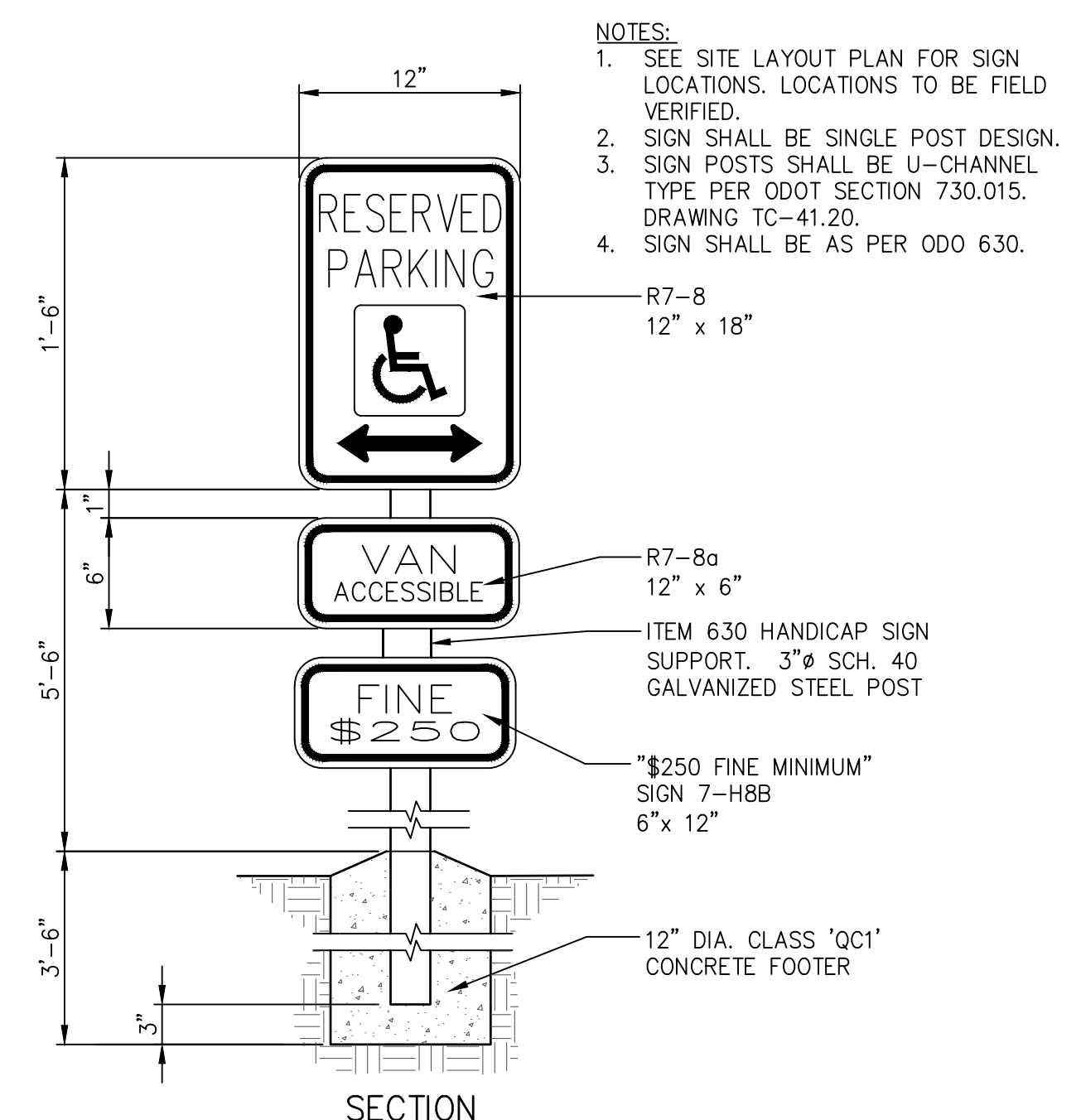
5 NOT USED
30 NOT TO SCALE

NOTES:
1. EXPANSION JOINT - 1/2" AT 20' O.C. MAX. OR AS SHOWN ON DRAWINGS AT ALL CURBS, WALKS, WALLS AND OTHER FIXED OBJECTS.
2. CONTROL JOINT - AS SHOWN ON DRAWINGS; MIN. 5' O.C.
3. CROSS SLOPE - 1/4" PER FOOT MIN. TO DRAIN
4. MEDIUM BROOM FINISH PERPENDICULAR TO THE DIRECTION OF TRAVEL.
5. USE EDGING TOOL AT PERIMETER.
6. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

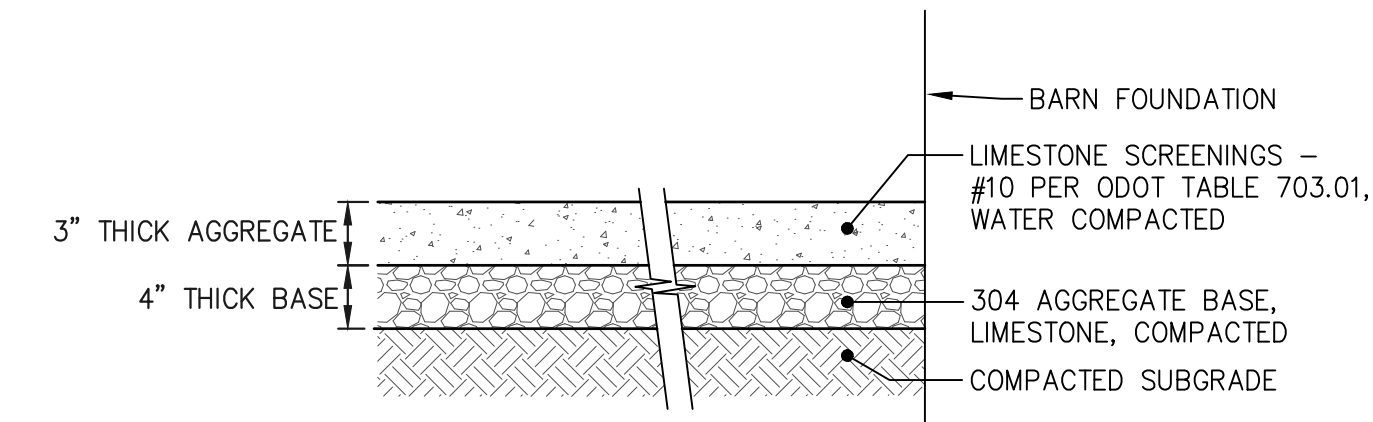


CONCRETE PAVEMENT	CONC	BASE	REINFORCING
STANDARD DUTY	5"	4"	6X6 - W4/4
HEAVY DUTY	8"	4"	NONE

8 CONCRETE PAVEMENT - HEAVY DUTY (BASE) & STANDAR DUTY (ALT #1)
30 NOT TO SCALE



6 ACCESSIBLE PARKING SIGNAGE
30 NOT TO SCALE



7 CRUSHED LIMESTONE
30 NOT TO SCALE

MILL POND-MUD BROOK GREENWAY
CITY OF CUYAHOGA FALLS

Cuyahoga Falls

BID SET

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REVISIONS		
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PROJECT NO.: 14-00436-060
DRAWN BY: RB
CHECKED BY: KGH
DATE ISSUED: 2/19/2021

CONSTRUCTION DETAILS A

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**MILL POND-MUD BROOK
 GREENWAY**
 CITY OF CUYAHOGA FALLS



CITY OF
Cuyahoga Falls

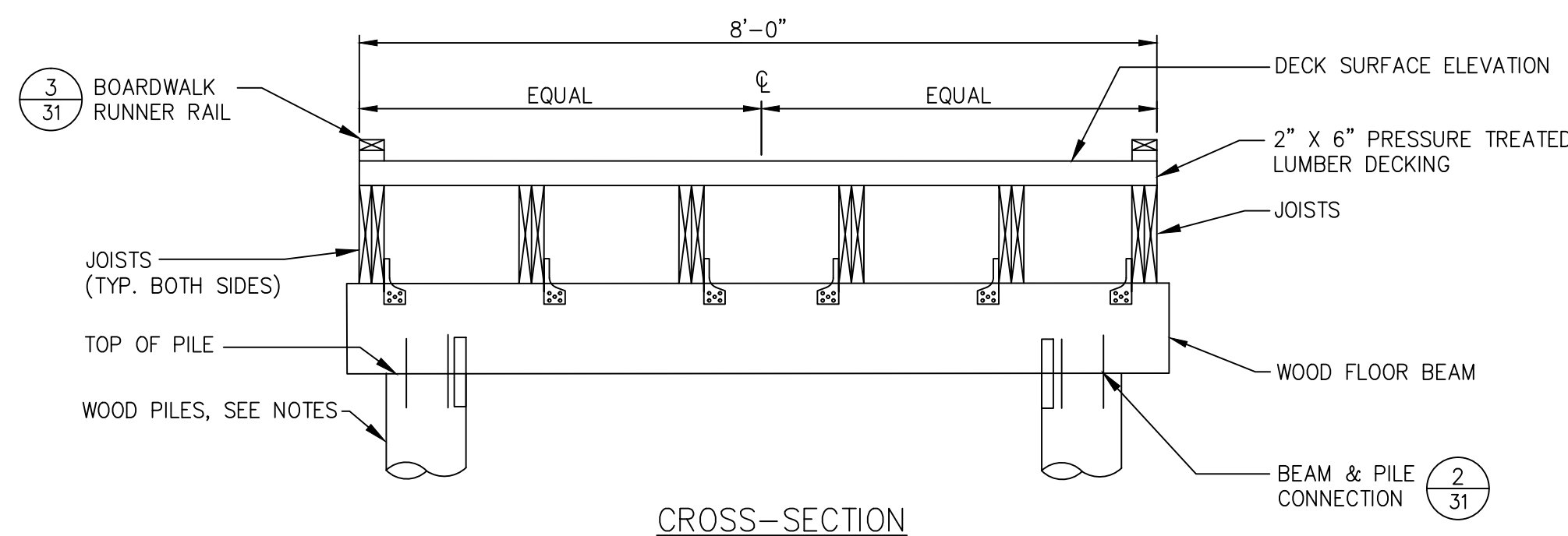
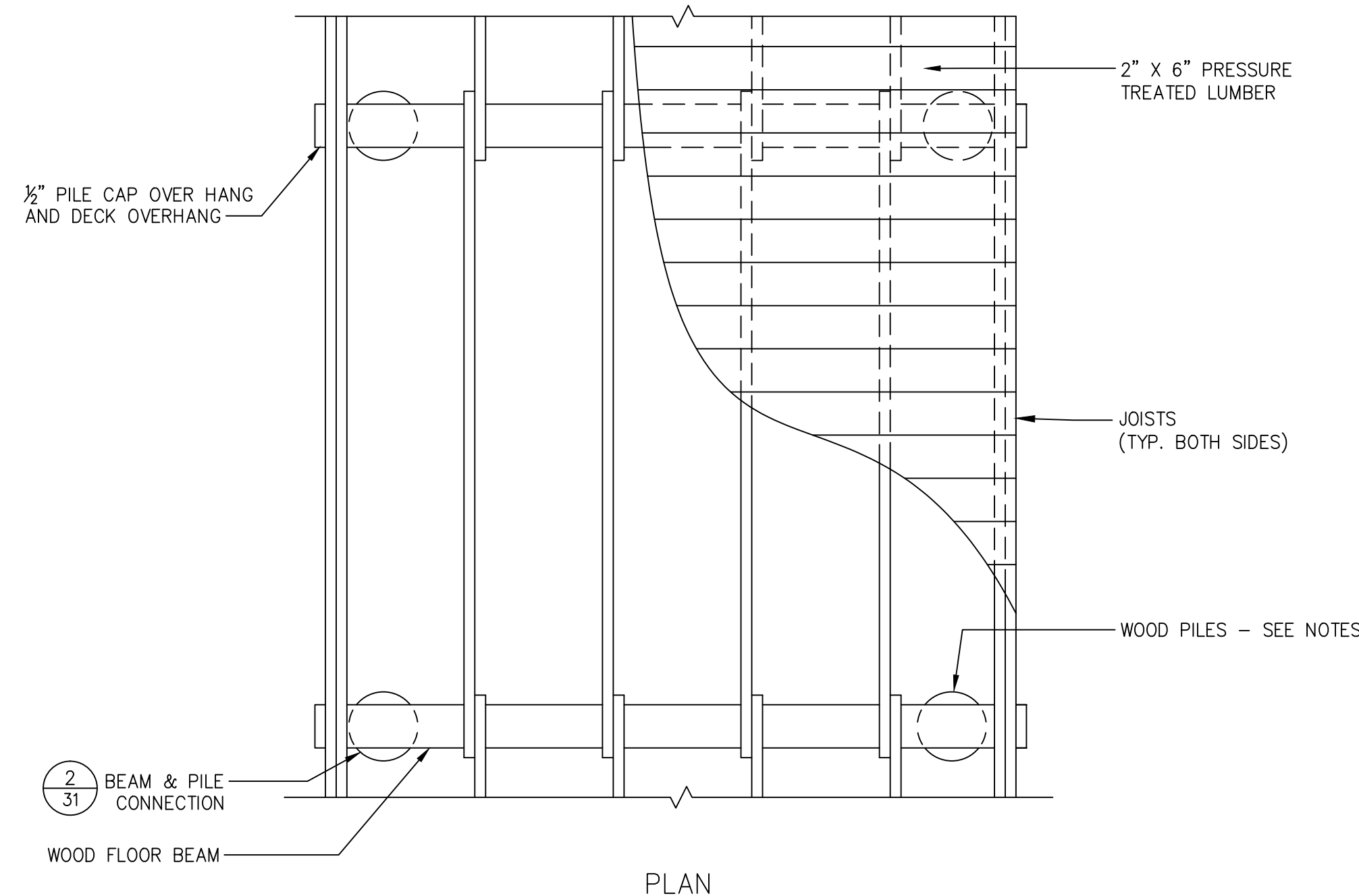
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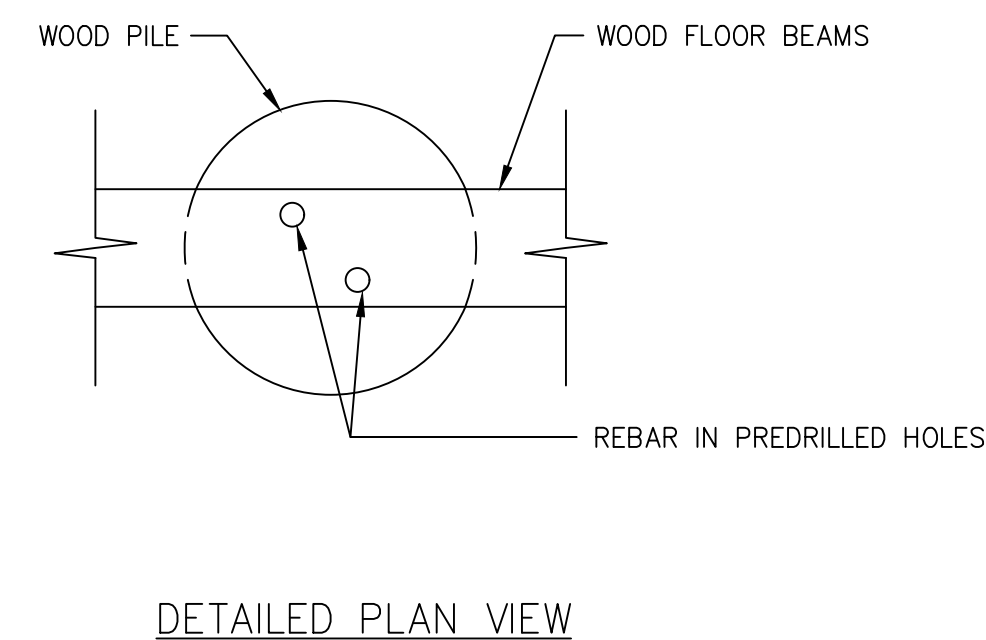
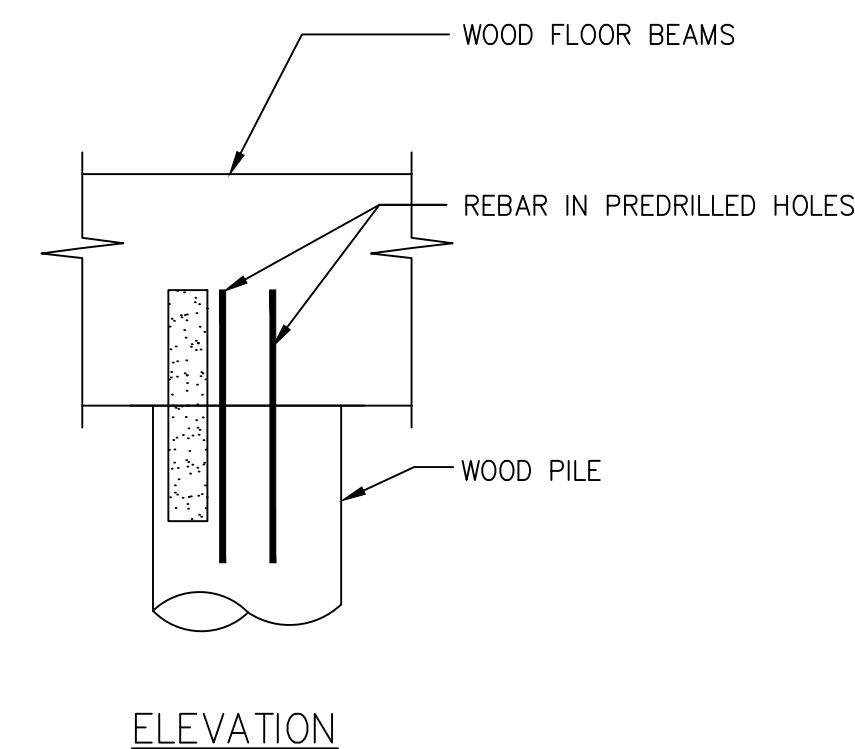
REVISIONS		
NO.	DATE	DESCRIPTION

PROJECT NO.: 14-00436-060
 DRAWN BY: RB
 CHECKED BY: KGH
 DATE ISSUED: 2/19/2021

**CONSTRUCTION
 DETAILS B**



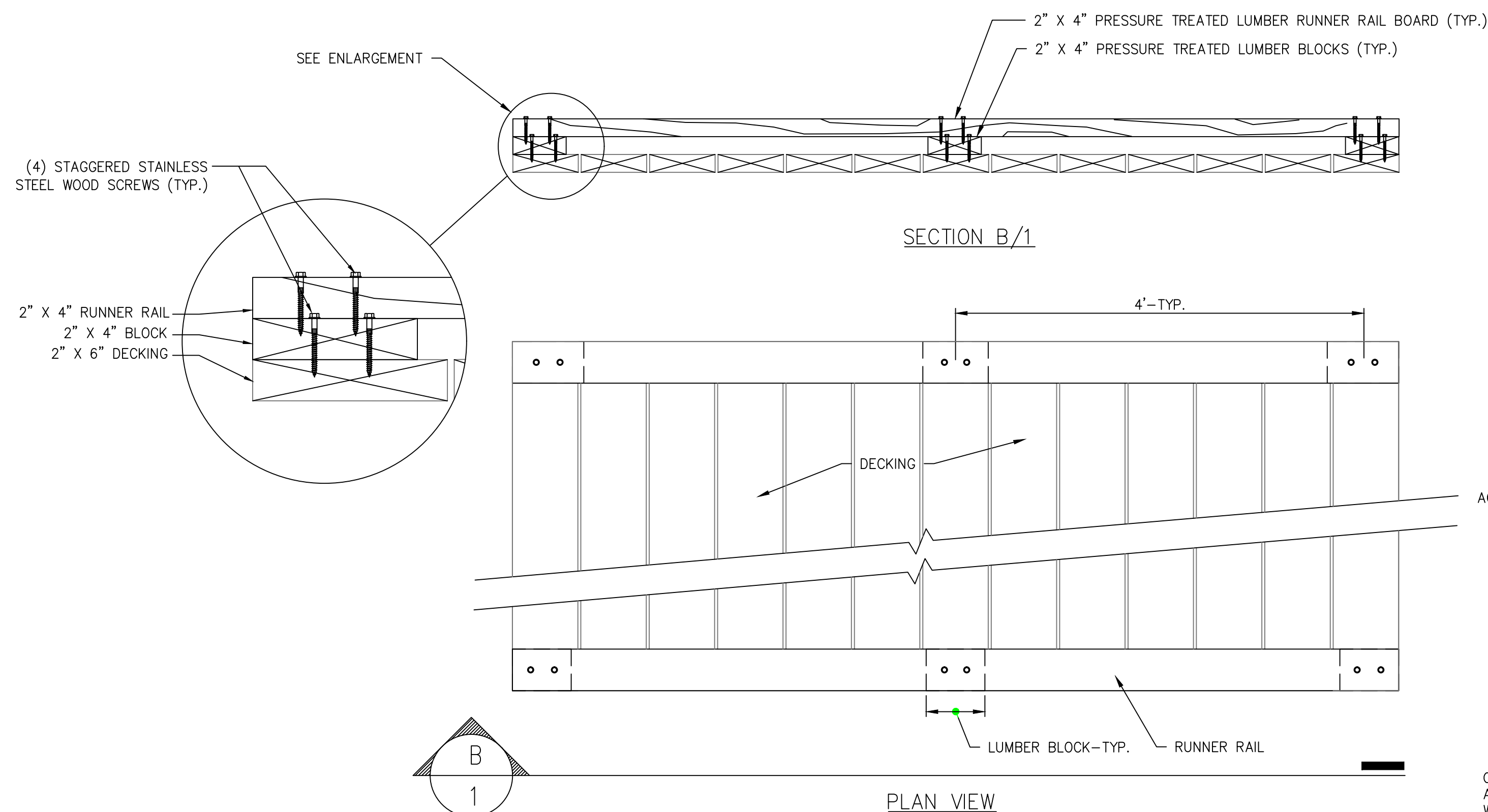
NOTES:
 1. SEE GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.



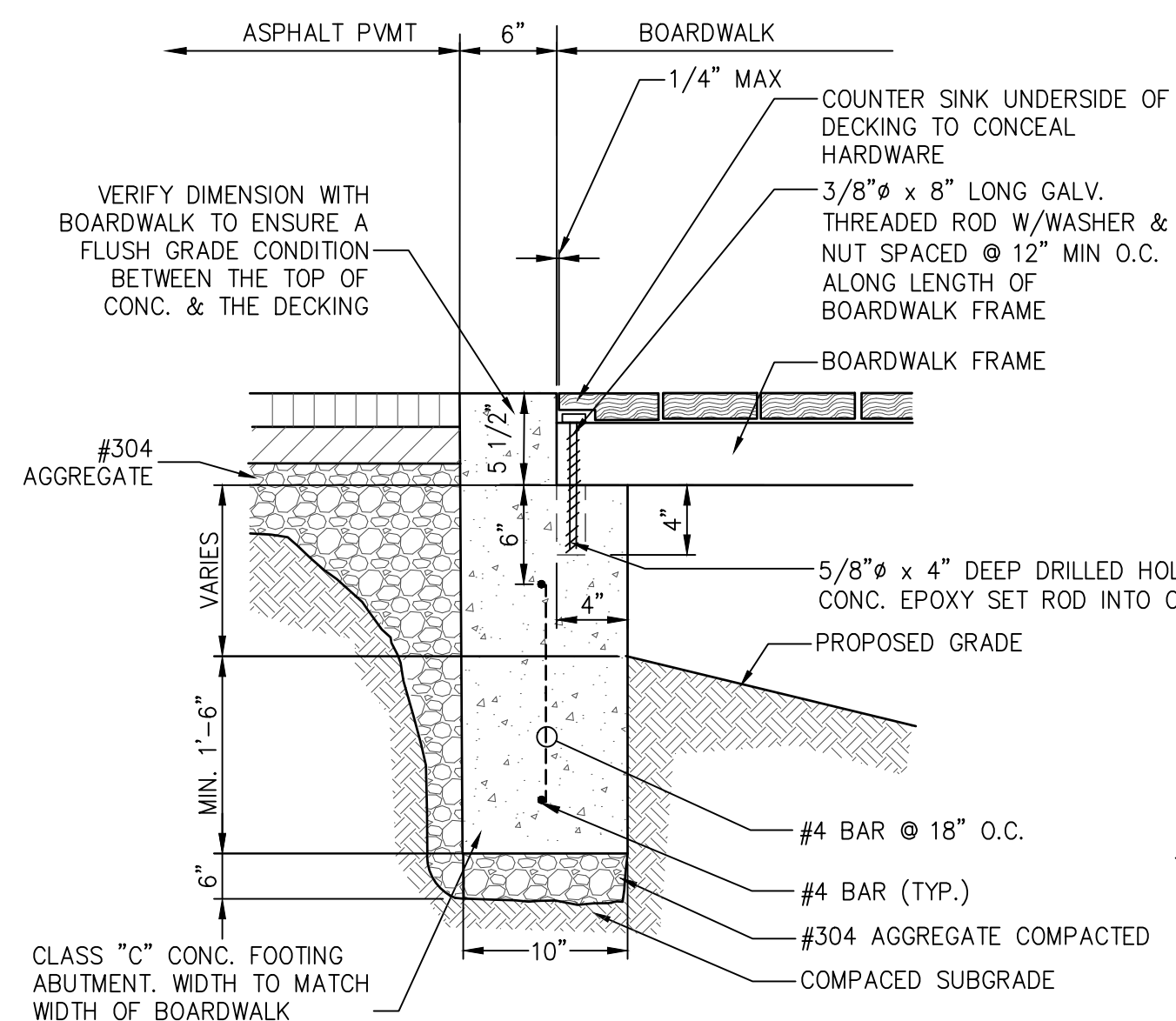
NOTES:
 1. SEE GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.

1 BOARDWALK
 31 NOT TO SCALE

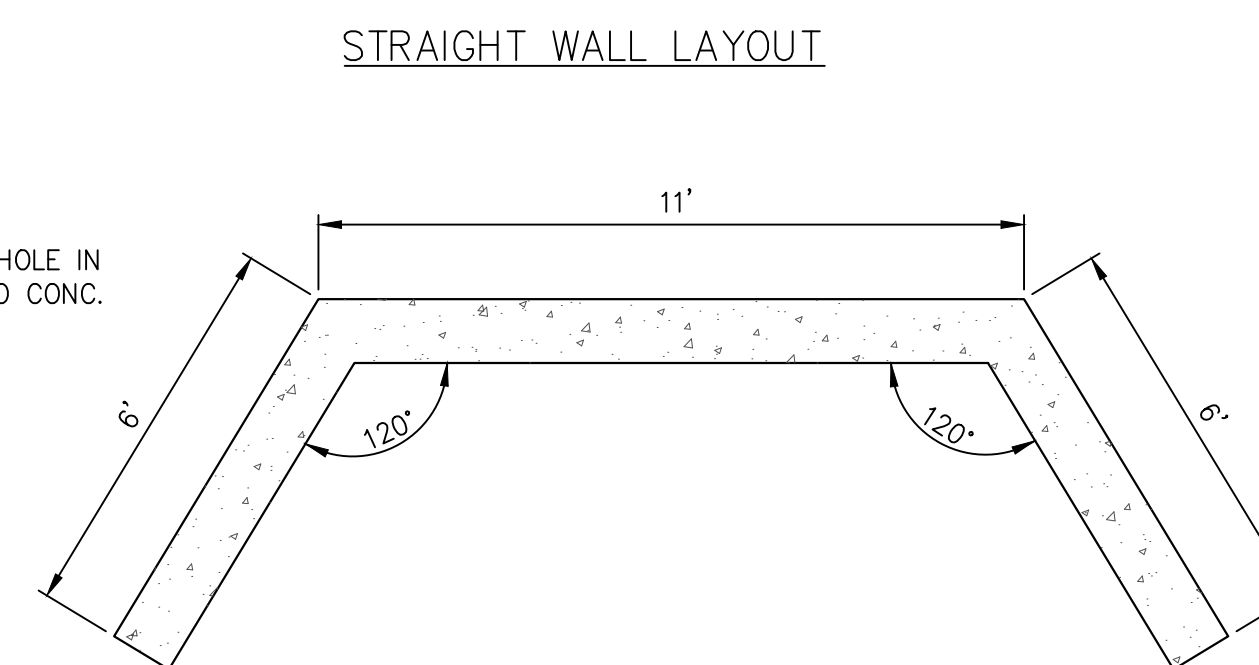
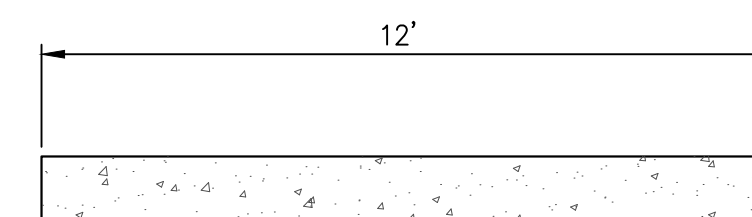
2 BEAM AND PILE CONNECTION
 31 NOT TO SCALE



NOTES:
 1. SEE GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.



4 CONCRETE BOARDWALK ABUTMENT
 31 NOT TO SCALE



3 BOARDWALK RUNNER RAIL
 31 NOT TO SCALE

MILL POND-MUD BROOK GREENWAY
CITY OF CUYAHOGA FALLS



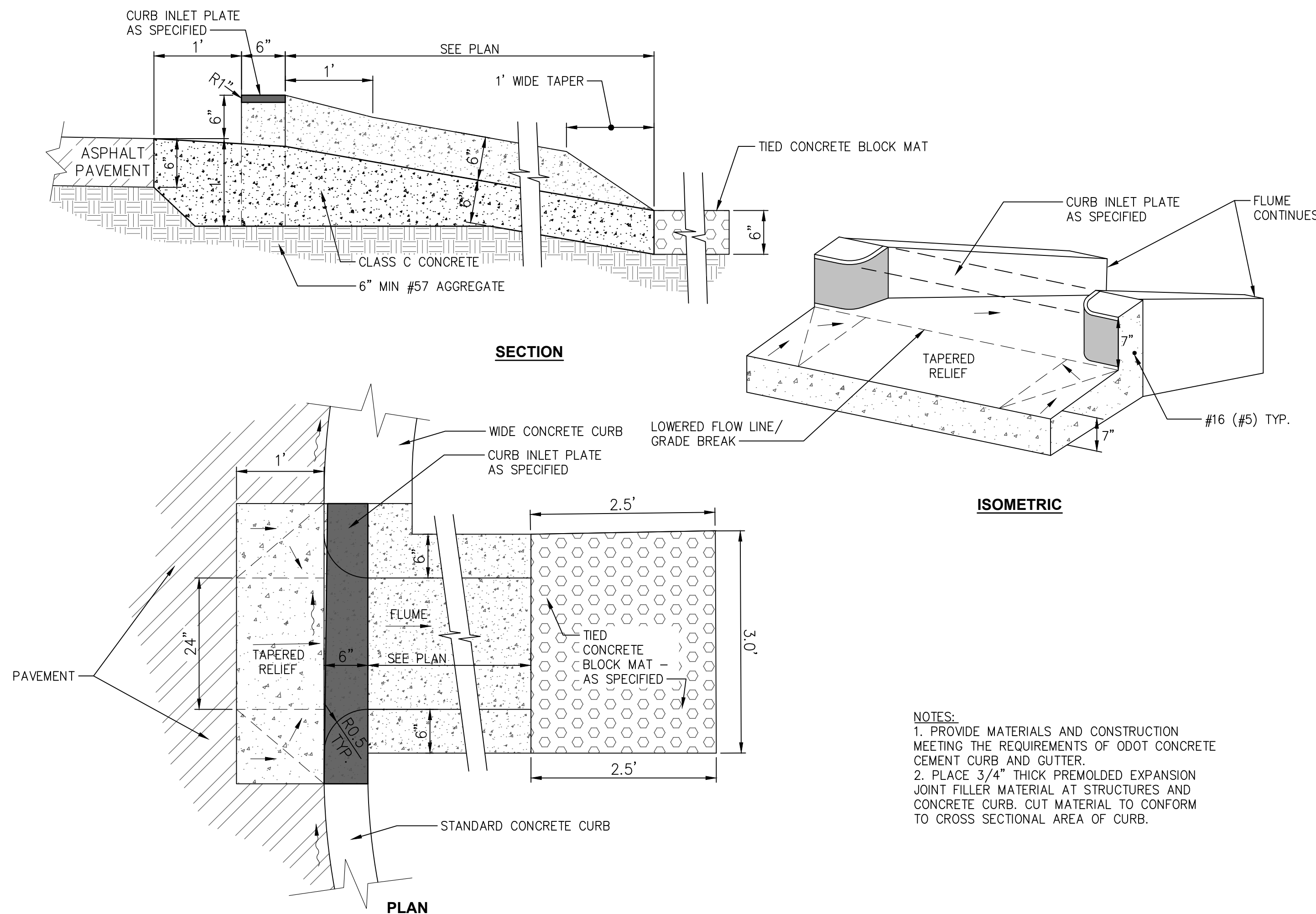
BID SET

DATE:

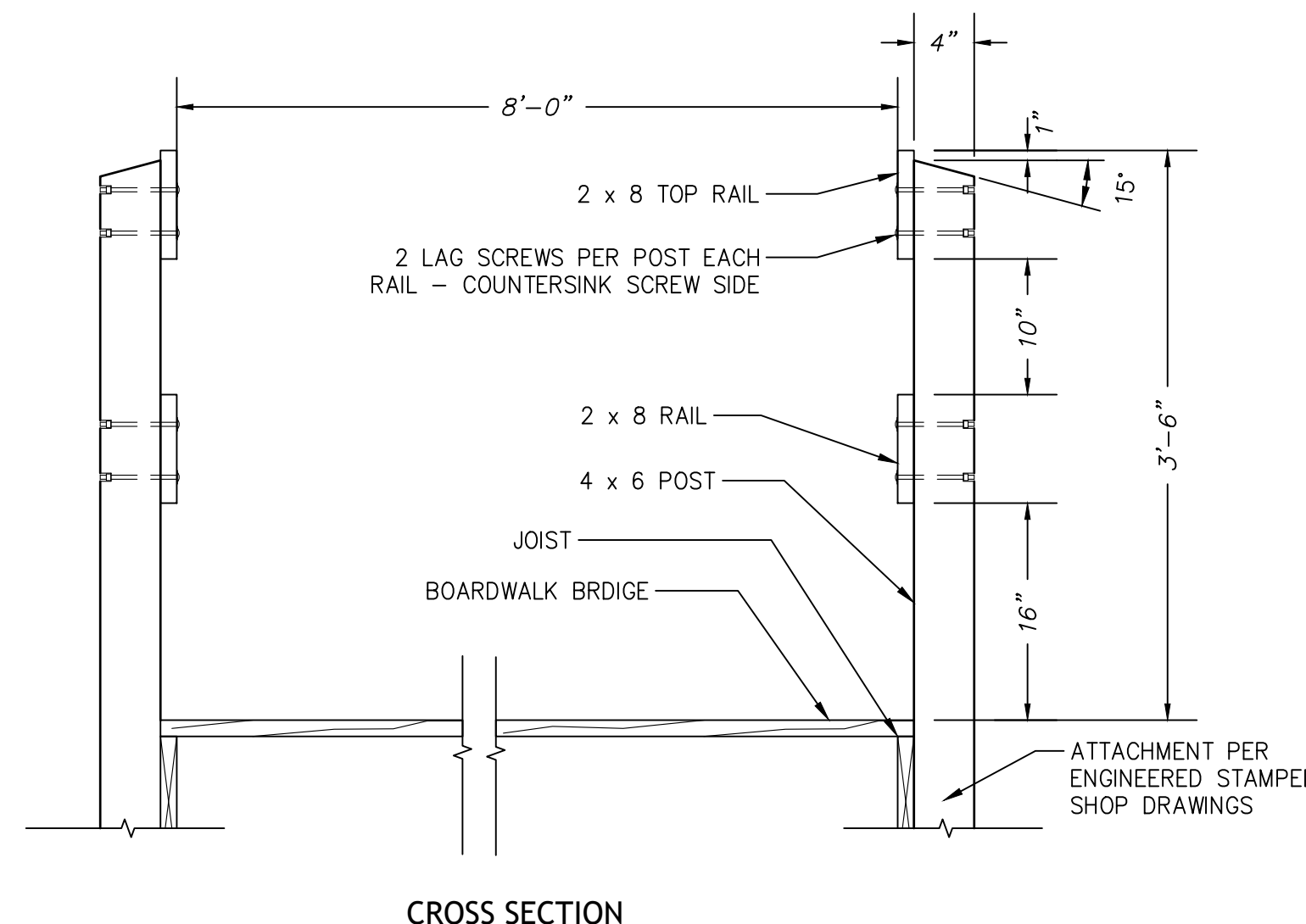
REVISIONS		
NO.	DATE	DESCRIPTION

PROJECT NO.: 14-00436-060
DRAWN BY: RB
CHECKED BY: KGH
DATE ISSUED: 2/19/2021

CONSTRUCTION DETAILS C



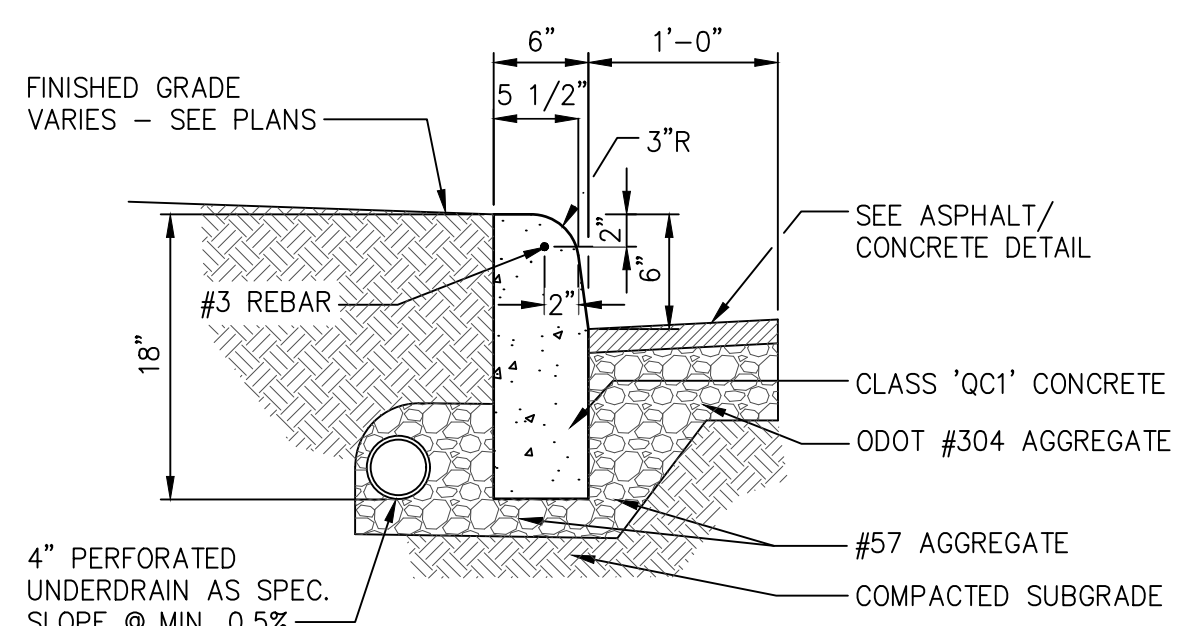
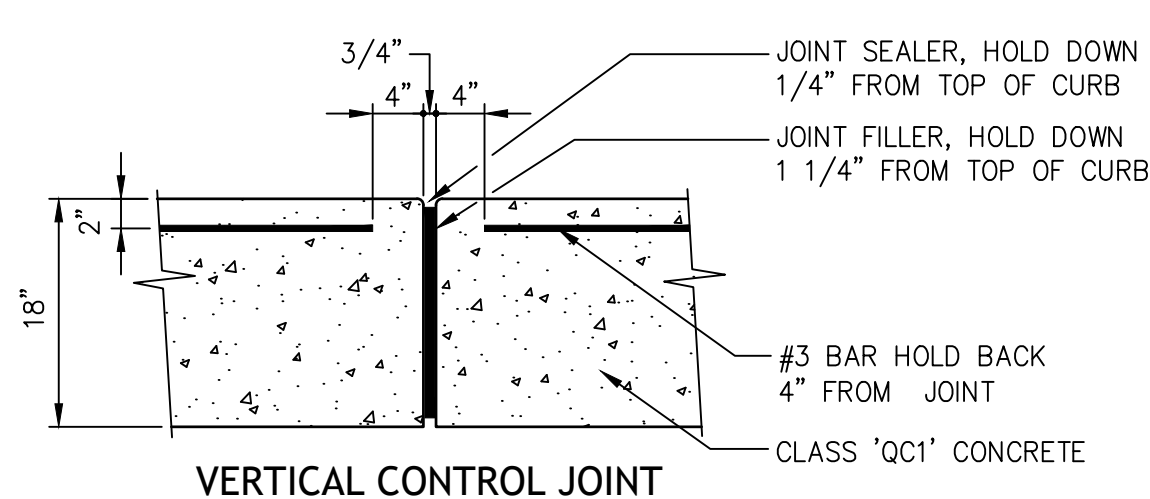
NOTES:
1. PROVIDE MATERIALS AND CONSTRUCTION MEETING THE REQUIREMENTS OF ODOT CONCRETE CEMENT CURB AND GUTTER.
2. PLACE 3/4" THICK PREMOLDED EXPANSION JOINT FILLER MATERIAL AT STRUCTURES AND CONCRETE CURB. CUT MATERIAL TO CONFORM TO CROSS SECTIONAL AREA OF CURB.



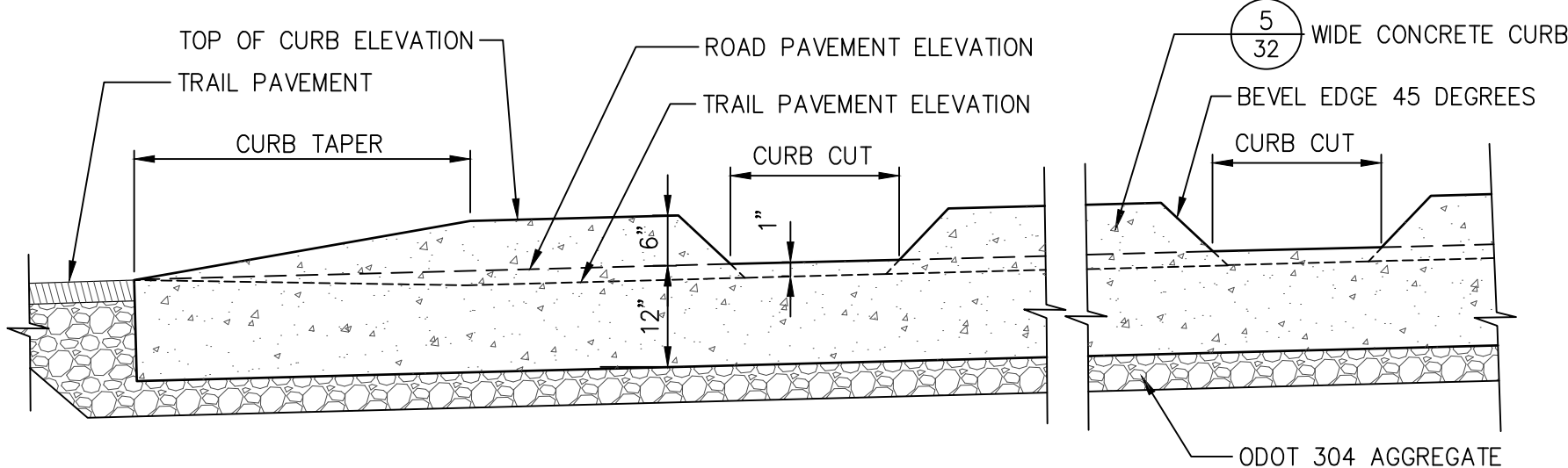
NOTES:
1. SEE NOTES ON SHEET 4.

1 CONCRETE FLUME
32 NOT TO SCALE

2 BOARDWALK BRIDGE & HANDRAIL
32 NOT TO SCALE

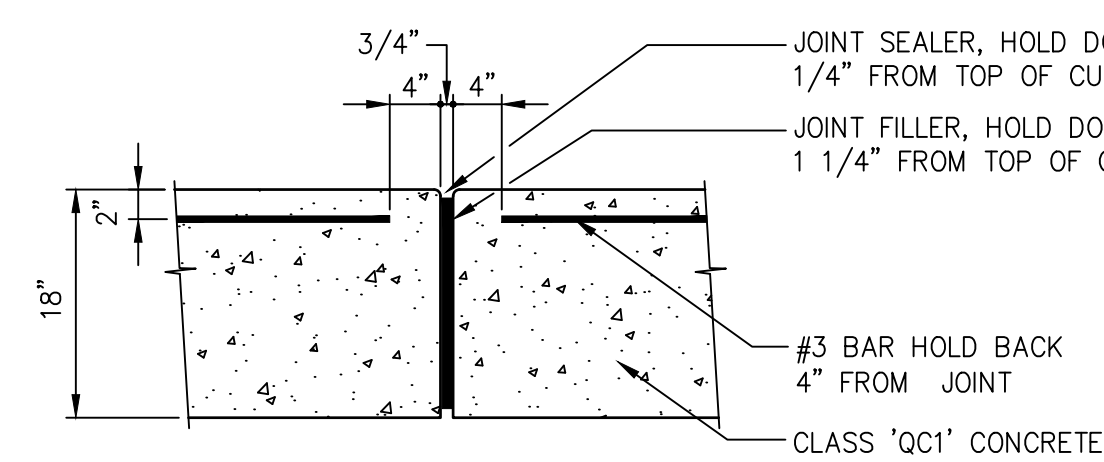
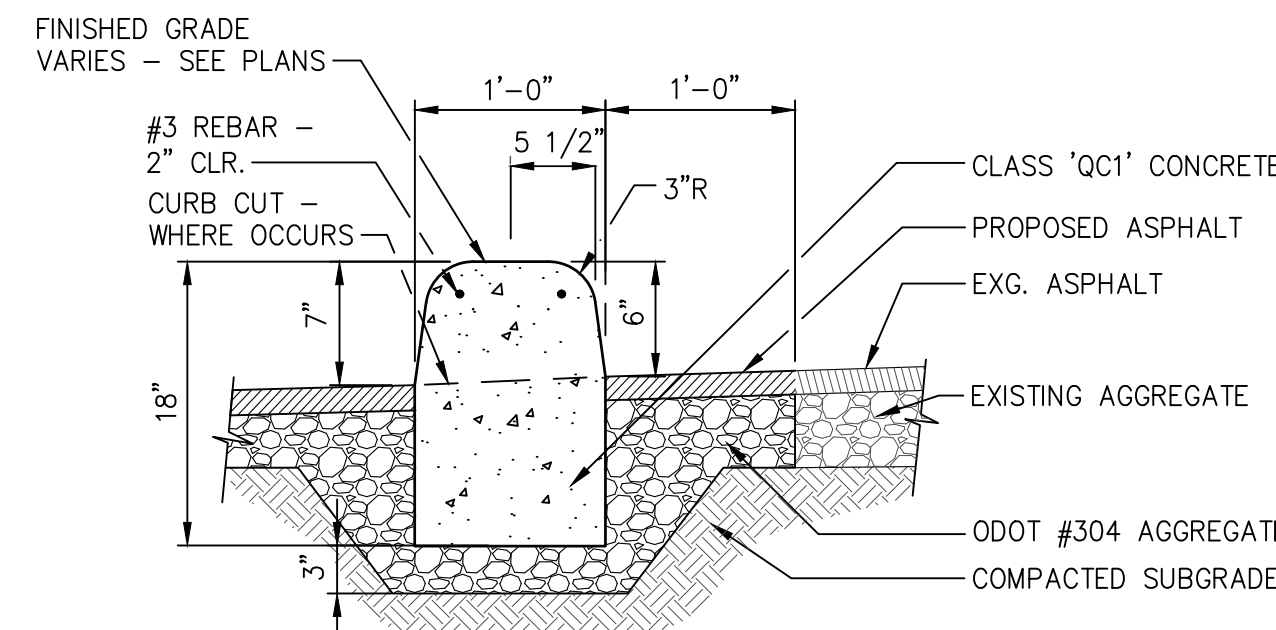


3 STANDARD CONCRETE CURB
32 NOT TO SCALE

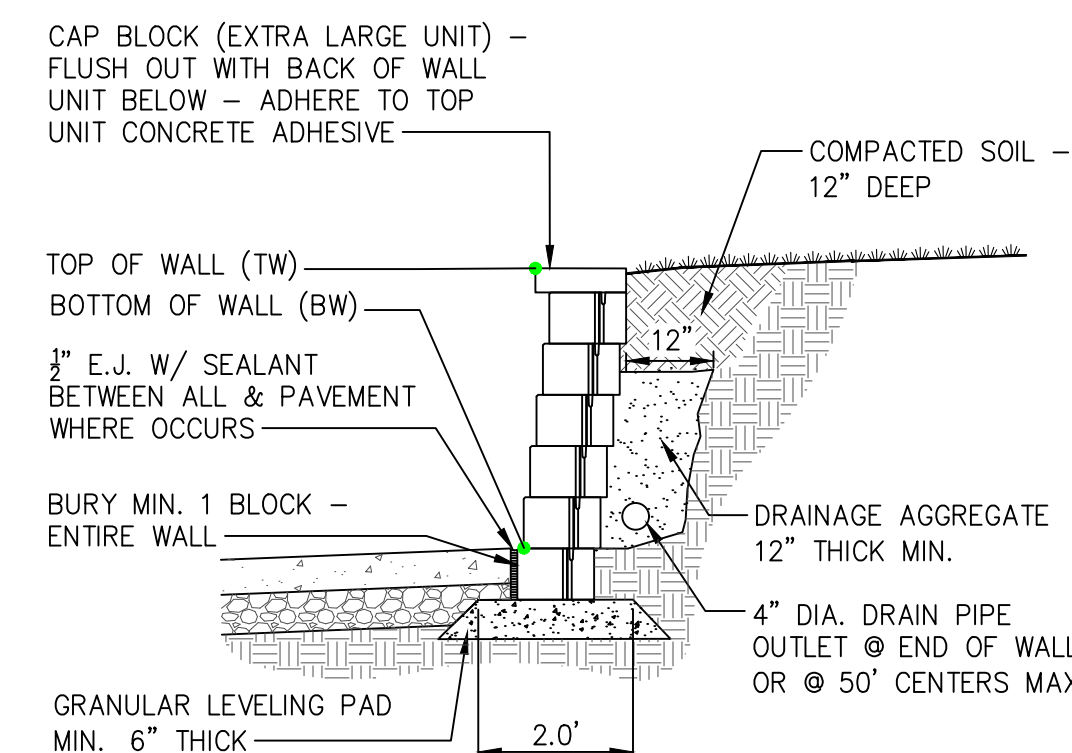


NOTES:
1. SEE LAYOUT PLANS FOR LOCATIONS.
2. FINISH BOTH FACES OF CURB.
3. DO NOT BACKFILL BEHIND CURB.
4. 4" UNDERDRAIN NOT REQUIRED AT CURB.

4 MODIFIED VERTICAL CONCRETE CURB (ALT #2)
32 NOT TO SCALE



5 WIDE CONCRETE CURB (ALT #2)
32 NOT TO SCALE



6 SEGMENTAL RETAINING WALL
32 NOT TO SCALE

MILL POND-MUD BROOK GREENWAY
CITY OF CUYAHOGA FALLS



CITY OF Cuyahoga Falls

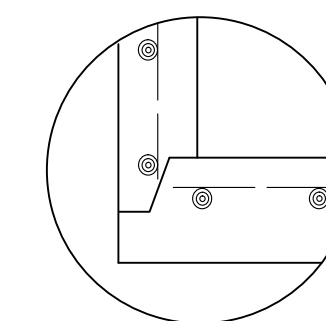
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CONSTRUCTION DETAILS D



ALTERNATE CORNER DETAIL

NOTES:

GENERAL:
WITH NORMAL SOIL AND SITE CONDITIONS THIS STANDARD PRECAST MANHOLE MAY BE USED FOR ANY REQUIRED MANHOLE DEPTH. SECTIONS OF THE PRECAST MANHOLE SHALL BE CAST AND ASSEMBLED WITH EITHER ALL TONGUE OR ALL GROOVE ENDS UP. LIFT HOLES MAY BE PROVIDED IN EACH SECTION FOR HANDLING. HANDLING DEVICE FOR THE FLAT SLAB SHALL BE LEFT IN PLACE.

TOP AND TRANSITION (OR REDUCER):
THIS SECTION SHALL BE A CONCENTRIC CONE UNLESS AN ECCENTRIC CONE OR FLAT SLAB IS SPECIFIED.

BASE:
MANHOLE IS SHOWN WITH A MONOLITHIC FLOOR AND RISER WHICH MAY BE CAST IN ONE OR TWO OPERATIONS. A PERMISSIBLE ALTERNATE IS TO CAST AND SHIP THE FLOOR AND BARREL SEPARATELY. OPENINGS FOR INLET AND OUTLET PIPES SHALL BE PROVIDED, EITHER WHEN THE UNIT IS CAST OR LATER, TO MEET PROJECT REQUIREMENTS. BOTTOM CHANNELS MAY BE FORMED OF CONCRETE, PRECAST IN THE BASE OR FIELD CONSTRUCTED AS SHOWN.

RISER SECTIONS:

OPENINGS FOR 18" [450] AND SMALLER INLET PIPES MAY BE EITHER PREFABRICATED, OR CUT IN THE FIELD PROVIDED THE SIDES OF THE PIPE AT THE SPRINGLINE DO NOT PROJECT INTO THE MANHOLE.

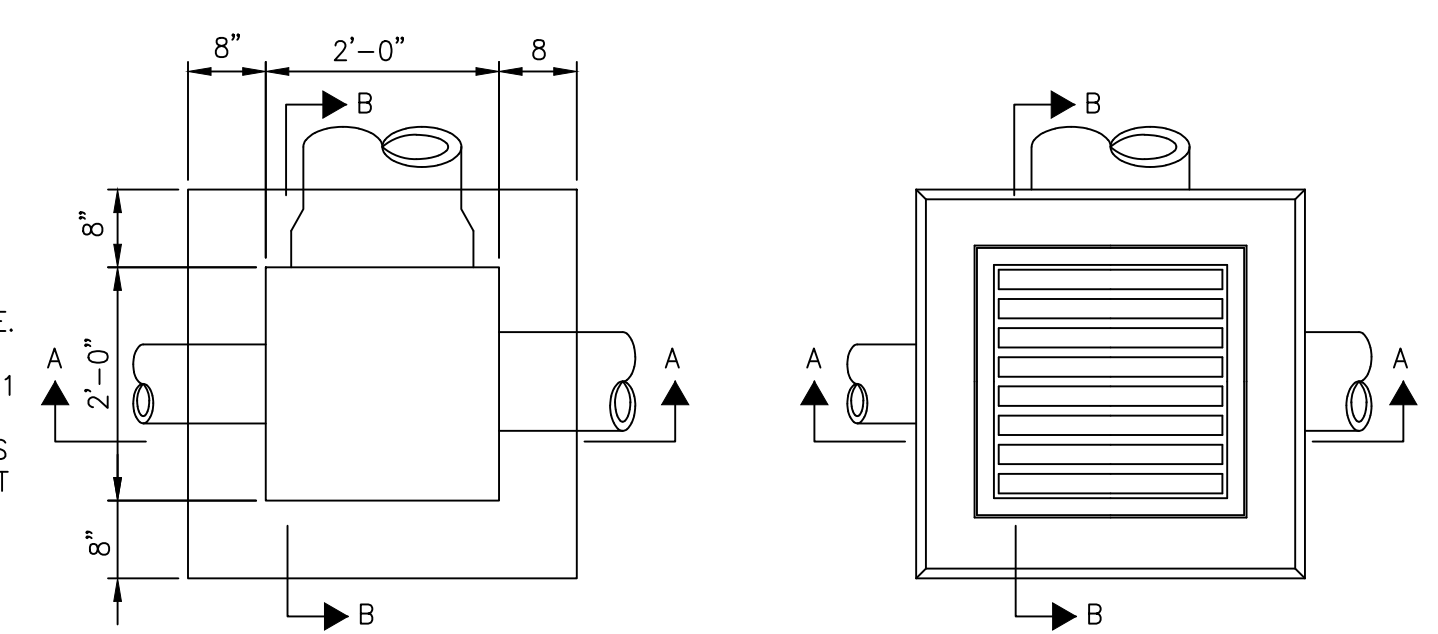
JOINT SEAL:
SEAL BETWEEN PRECAST MANHOLE SECTIONS ON SANITARY SEWERS SHALL BE RESILIENT AND FLEXIBLE GASKET JOINTS PER ODOT 706.11.

PIPE CONNECTION:
PROVIDE ELASTOMERIC BOOT WITH SS STRAP ON ALL SANITARY PIPE CONNECTIONS.

MATERIALS:
MATERIALS FOR BASES AND OTHER PRECAST SECTIONS, INCLUDING REINFORCEMENT NOT SPECIFIED HEREON, SHALL COMPLY WITH THE REQUIREMENTS OF ODOT 706.13.

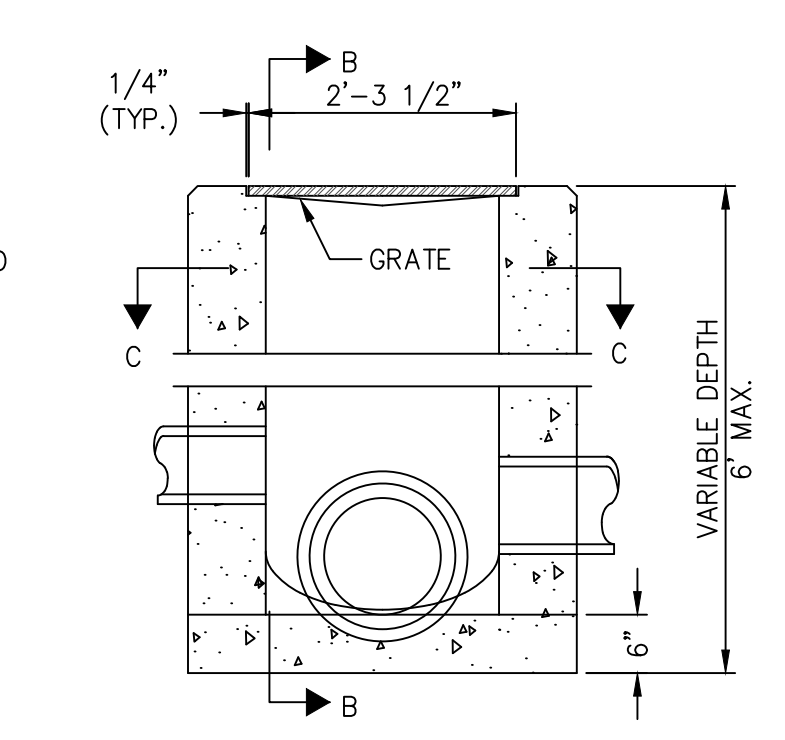
STEPS SHALL BE EAST JORDAN IRON WORKS 8105 OR APPROVED EQUAL.

MANHOLE FRAME AND GRATE SHALL BE EAST JORDAN IRON WORKS 1045 FRAME WITH TYPE M1 GRATE OR APPROVED EQUAL.

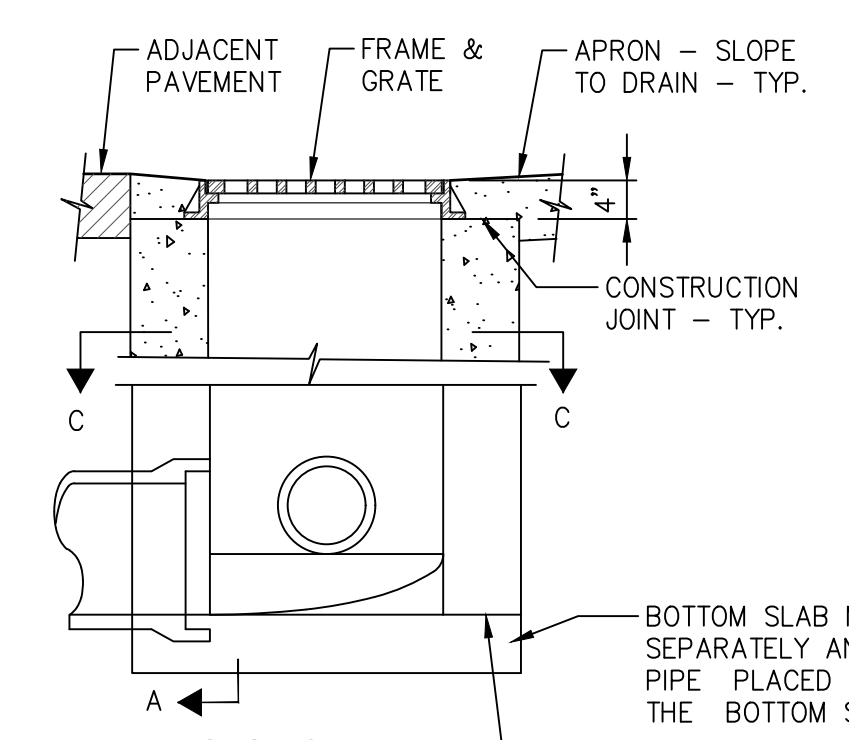


SECTIONAL PLAN C-C

TOP PLAN

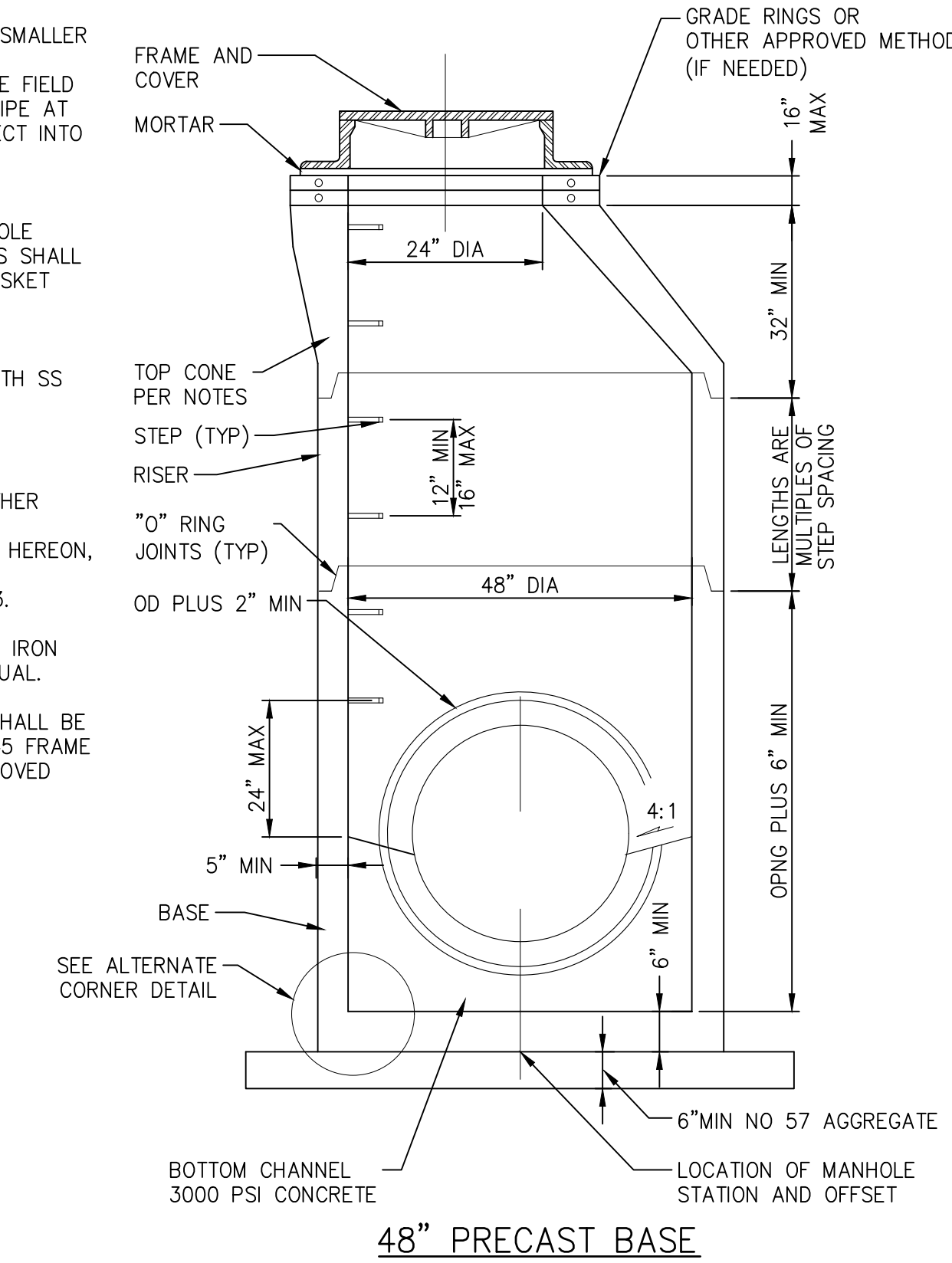


SECTION A-A



SECTION B-B

PERMISSIBLE CONSTRUCTION JOINT



48" PRECAST BASE

3 STORM MANHOLE
33 NOT TO SCALE

NOTES:

BRICK, CONCRETE BLOCK OR CAST-IN-PLACE WALLS SHALL HAVE A NOMINAL THICKNESS OF 8 INCHES. PRECAST WALLS SHALL HAVE A MINIMUM THICKNESS OF 6 INCHES AND BE REINFORCED SUFFICIENTLY TO PERMIT SHIPPING AND HANDLING WITHOUT DAMAGE.

2-2-B GRATE ELEVATION TO BE PLACED 1 TO 2 INCHES BELOW PAVEMENT GRADE. CONCRETE, CAST-IN-PLACE, TO BE CLASS QC1. ALL PRECAST CONCRETE SHALL MEET THE REQUIREMENTS OF O.D.O.T. 706.13 WITH 6± 2% AIR VOID CONTENT IN THE HARDENED CONCRETE AND BE MARKED WITH CATCH BASIN NUMBER.

WEIGHT OF GRATE, MIN., 120 LBS. WEIGHT OF FRAME, MIN., 40 LBS.

ALL GRATE EDGES TO BE ROUNDED 1/4" RADIUS

OPENINGS FOR PIPE SHALL BE MADE TO ACCOMMODATE THE TYPE(S) OF PIPES USED FOR THE PROJECT. LOCATION AND ELEVATION WHEN GIVEN ON THE PLANS IS TOP CENTER OF THE GRATE. GRATING AND FRAME - THE DESIGN SHALL BE ESSENTIALLY THE SAME AND EQUALLY AS STRONG AS THE ONE SHOWN HEREON.

JOINTS TO BE FLEXIBLE ELASTOMATIC SEALS

DROP IN DUCTILE IRON FRAME AND GRATE PEDESTRIAN RATED, ADA COMPLIANT

18" WIDE 8" THICK CONCRETE COLLAR

FINISH GRADE

BIORETENTION CELL AREAS

TURFGRASS AREAS

BEEHIVE GRATE

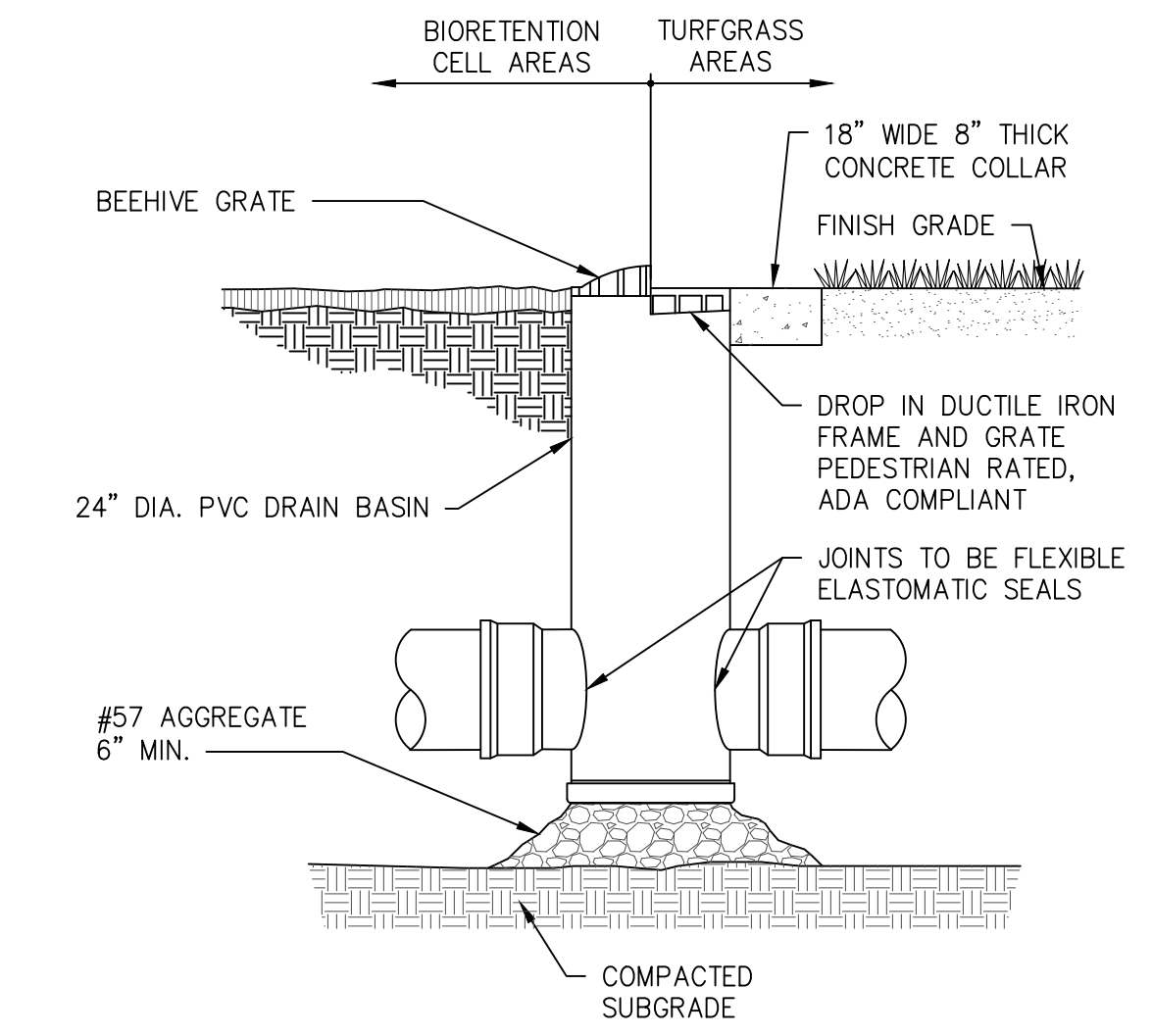
24" DIA. PVC DRAIN BASIN

#57 AGGREGATE 6" MIN.

COMPACTED SUBGRADE

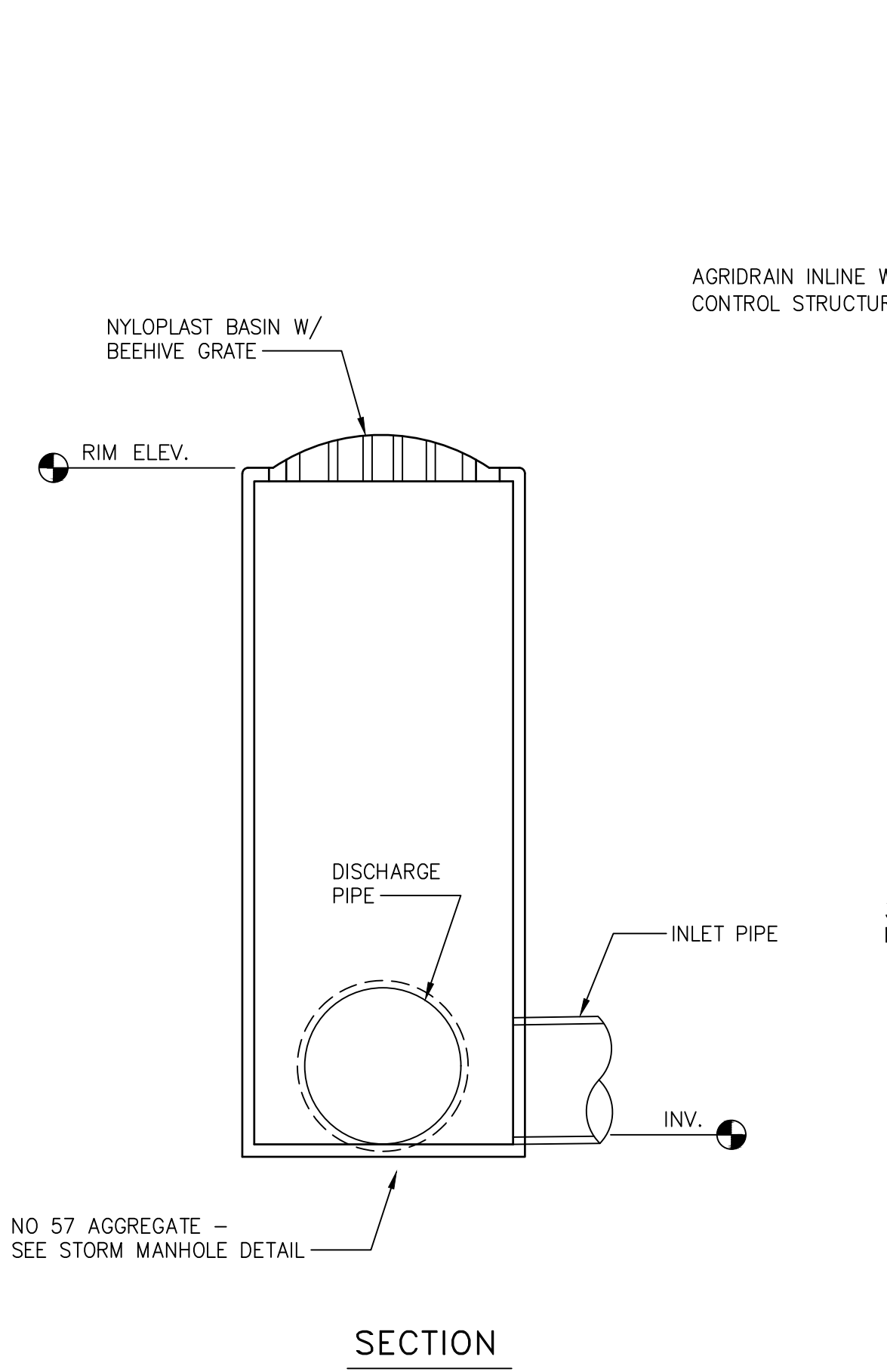
2 YARD DRAIN (NYLOPLAST)
33 NOT TO SCALE

2 CATCH BASIN - ODOT CB-2-2C
33 NOT TO SCALE



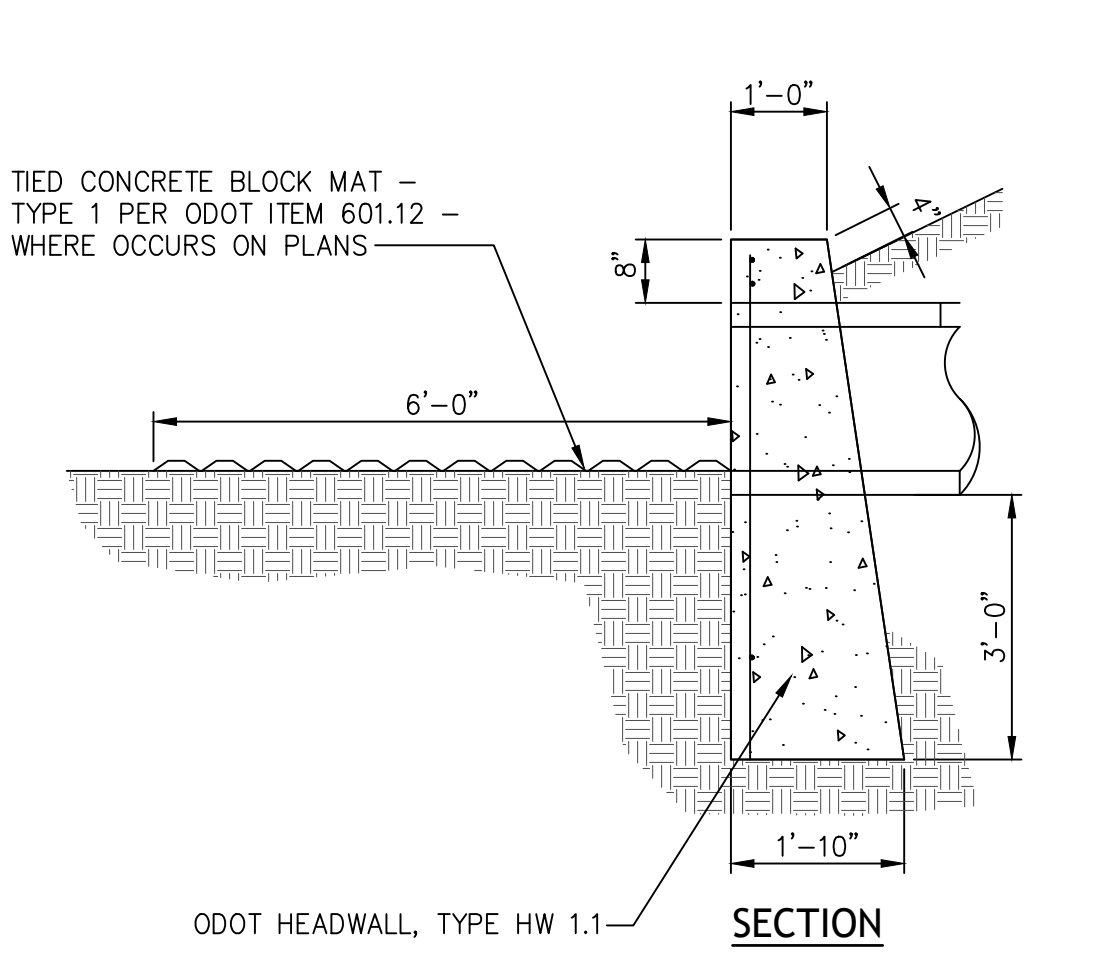
1 YARD DRAIN (NYLOPLAST)
33 NOT TO SCALE

2 CATCH BASIN - ODOT CB-2-2C
33 NOT TO SCALE

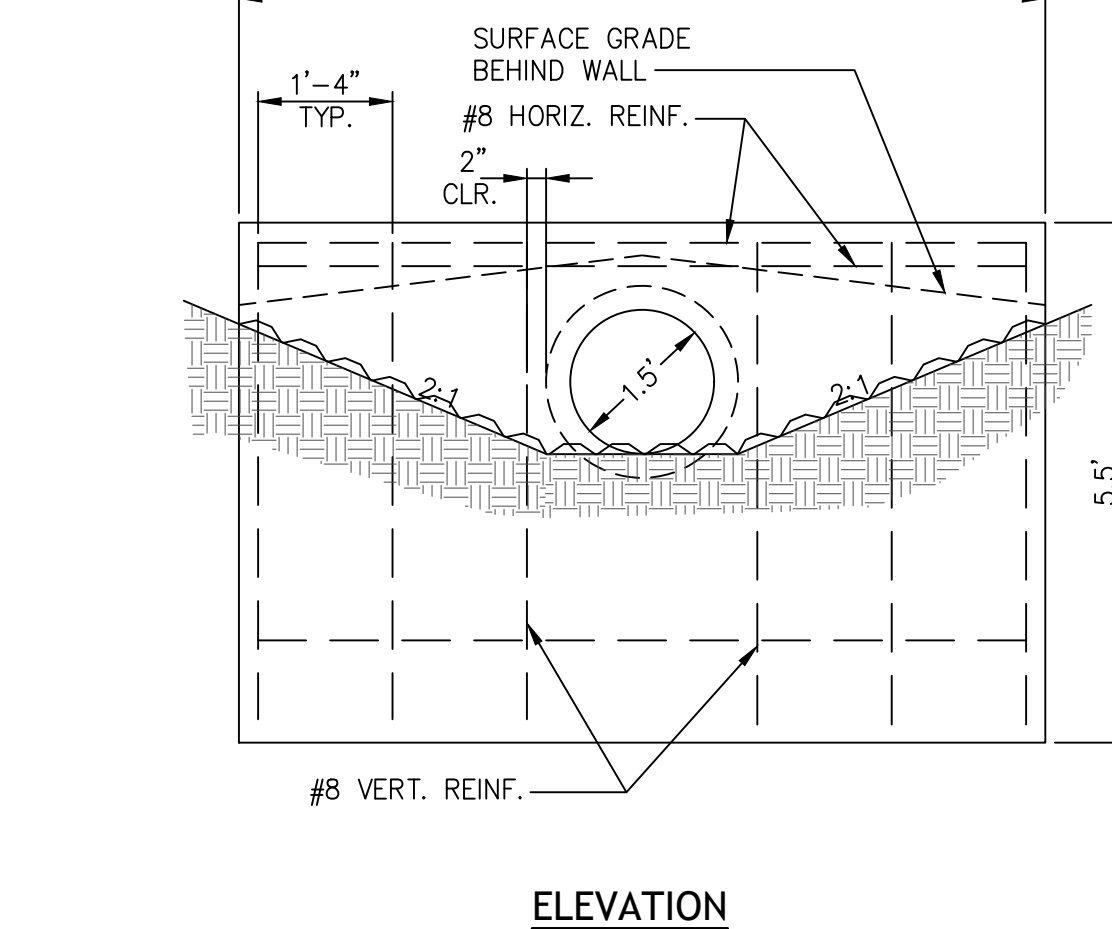


NOTES:
1. MANHOLE TO BE 36" NYLOPLAST BASIN OR APPROVED EQUIVALENT.
2. PROVIDE ALL MISCELLANEOUS FITTINGS AND APPURTENANCES FOR A FULLY FUNCTIONALLY SYSTEM.
3. PROVIDE AN EXTRA 6" STOP LOG TO OWNER.

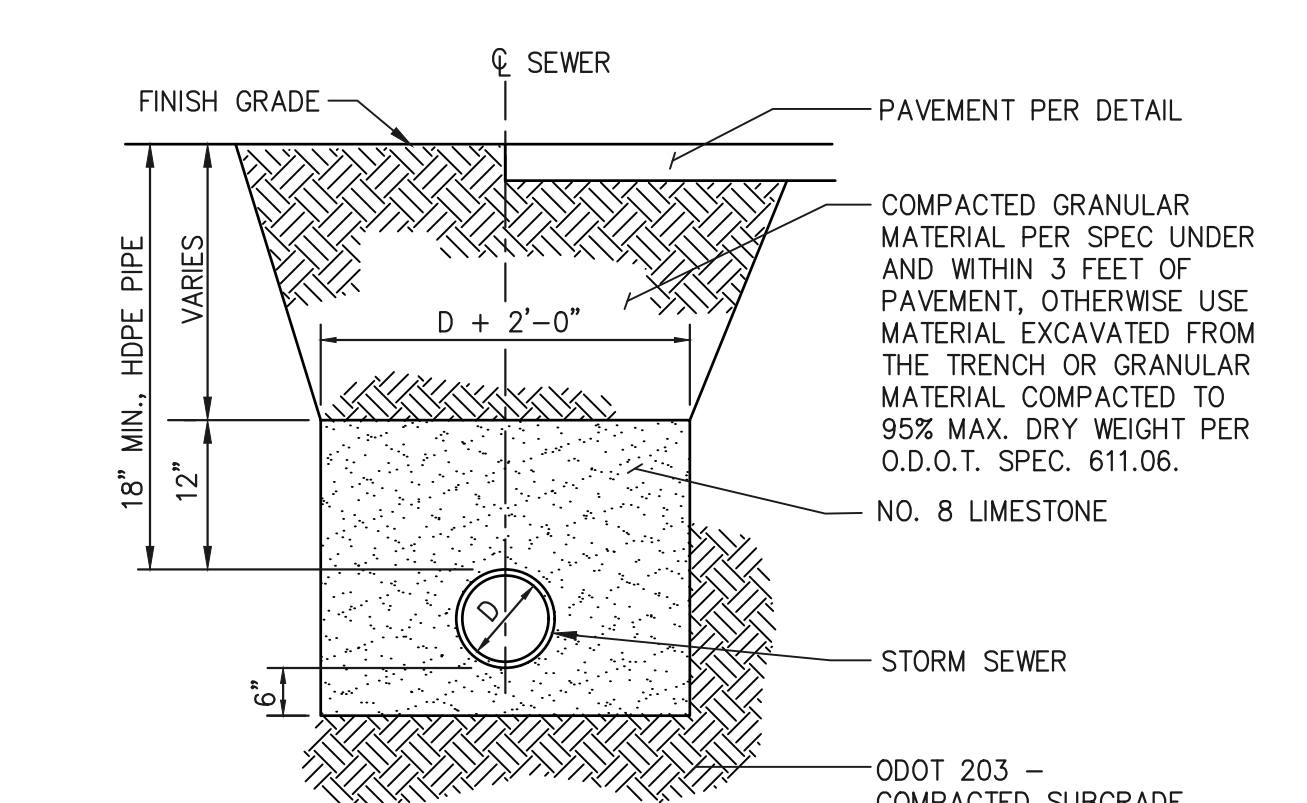
4 OUTLET STRUCTURE
33 NOT TO SCALE



5 HEADWALL
33 NOT TO SCALE



6 STORM SEWER TRENCH
33 NOT TO SCALE



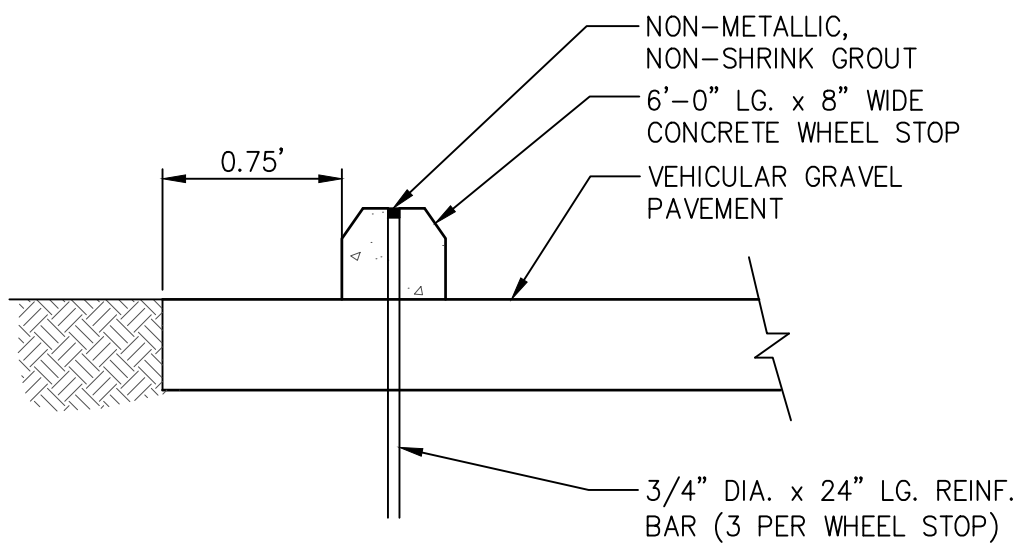
6 STORM SEWER TRENCH
33 NOT TO SCALE

E:\CIVIL\DESIGN\14-00436-060\MILL_POND-MUD_BROOK_GREENWAY_PHASE_DESIGN\CADD\DETAILS_14-00436-060 - 2/18/2021 2:27:49 PM

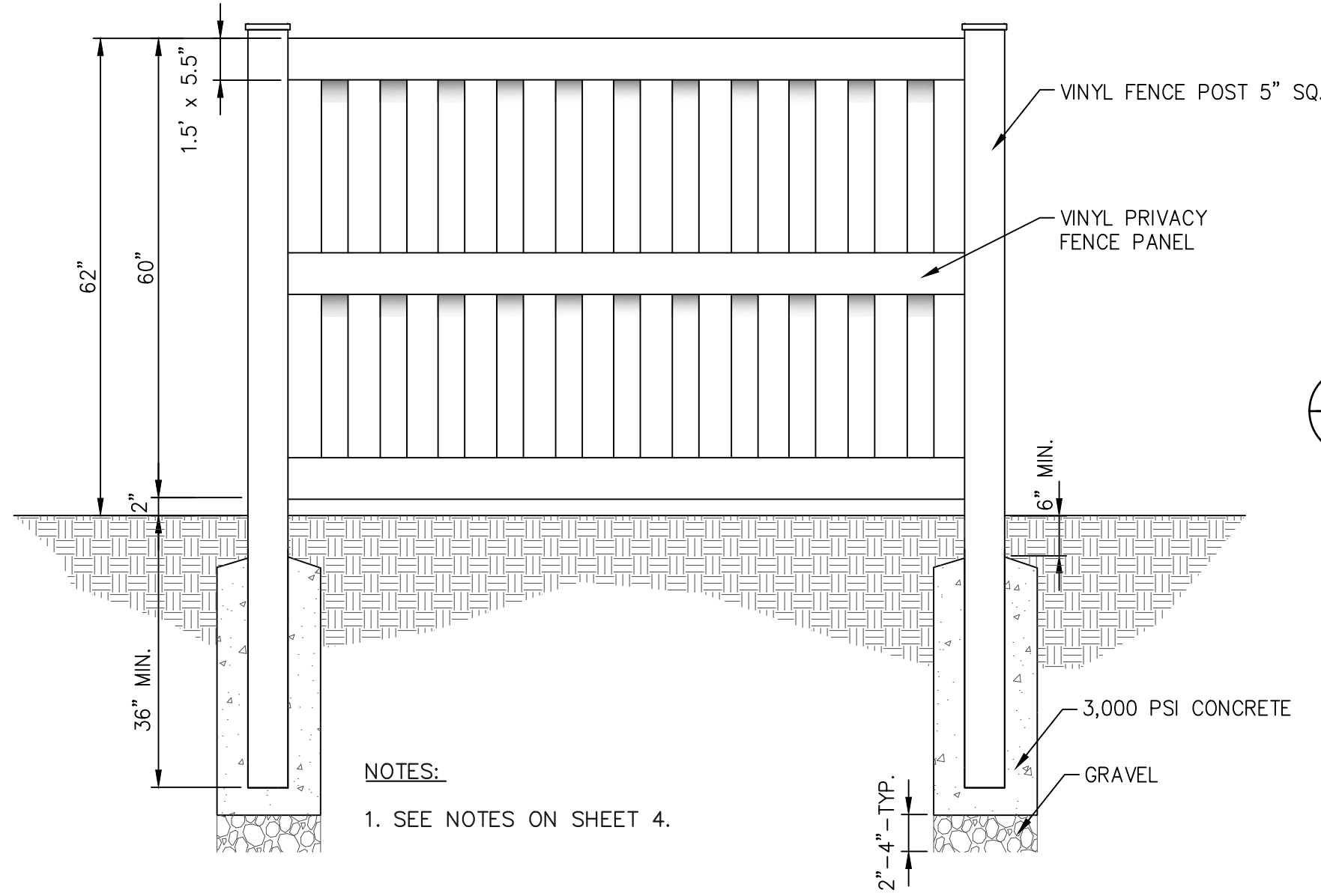
REVISIONS		
NO.	DATE	DESCRIPTION

NOTES:

- CONTRACTOR TO PROVIDE CUT SHEET FOR APPROVAL PRIOR TO INSTALLATION.
- POSITION WHEEL STOP IN CENTER OF PARKING SPACE AND 1 FOOT FROM EDGE OF GRAVEL.



1 CONCRETE WHEEL STOP
 34 NOT TO SCALE



NOTES:
 1. SEE NOTES ON SHEET 4.

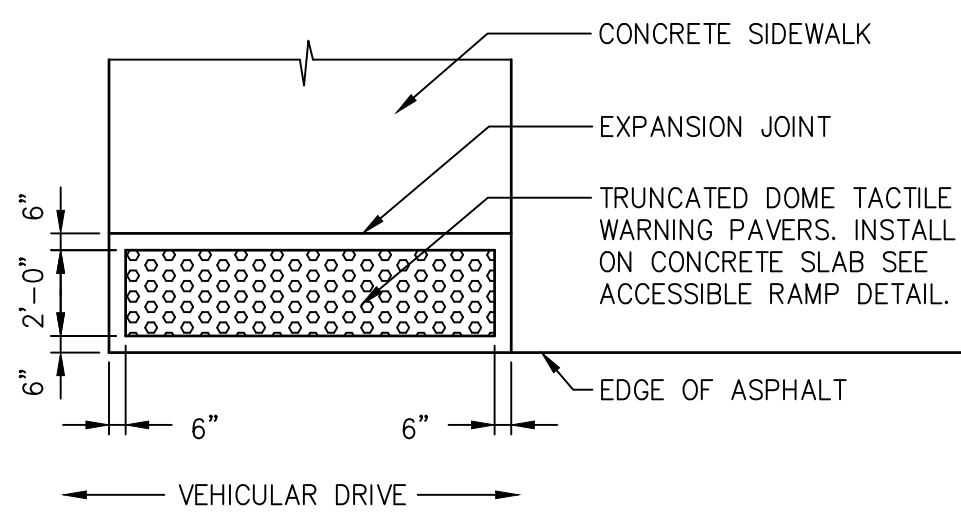
2 VINYL FENCE
 34 NOT TO SCALE

3 NOT USED
 34 NOT TO SCALE

4 NOT USED
 34 NOT TO SCALE

5 NOT USED
 34 NOT TO SCALE

6 NOT USED
 34 NOT TO SCALE



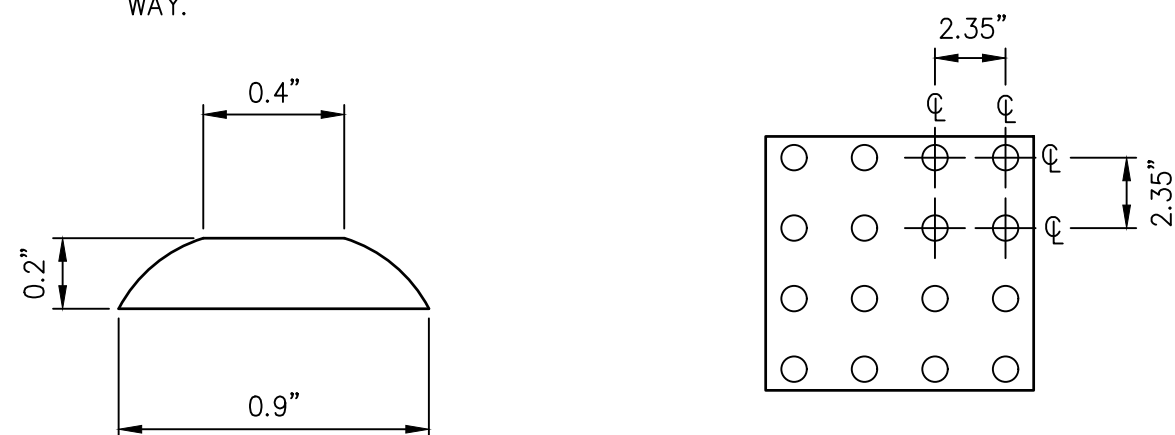
TRUNCATED DOME PAVERS AT CROSSWALK

NOTE:
 THE MATERIAL USED TO PROVIDE CONTRAST SHOULD BE AN INTEGRAL PART OF THE MATERIAL AND SHOULD CONTRAST BY AT LEAST 70%. CONTRAST IN PERCENT IS DETERMINED BY:

$$\text{CONTRAST} = \frac{B1 - B2}{B1} \times 100$$

WHERE B1=LIGHT REFLECTANCE VALUE (LRV) OF THE LIGHTER AREA AND B2=LRV OF THE DARKER AREA

TRUNCATED DOMES ARE ONLY REQUIRED IN PUBLIC RIGHTS OF WAY.

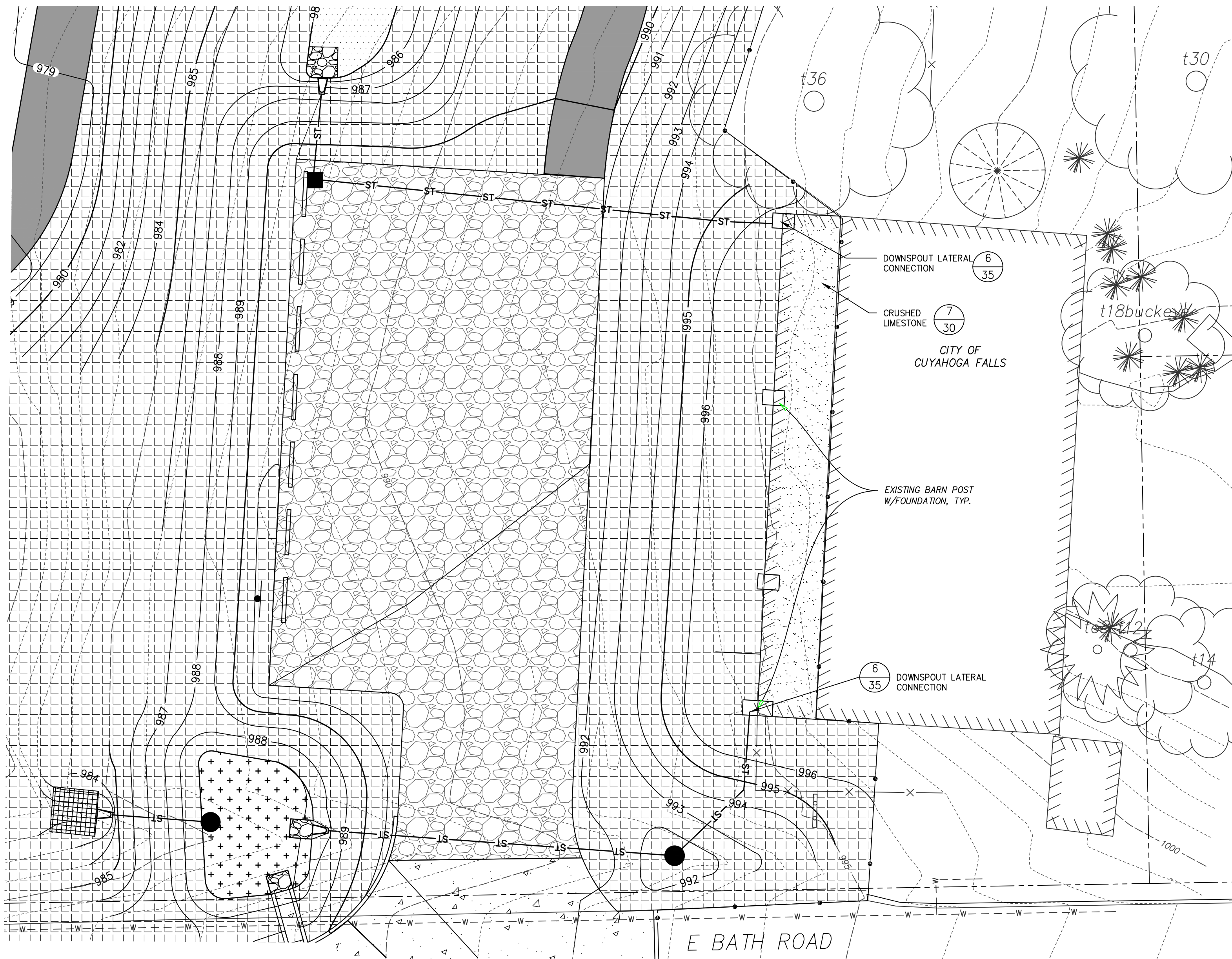


SECTION OF DOME FROM A DETECTABLE WARNING. DRAWING SHOWS HEIGHT, TOP AND BOTTOM DIMENSIONS

PLAN AND SECTION VIEWS OF DETECTABLE WARNING DOMES AND THEIR RELATIVE SPACING ON THE X AND Y AXIS

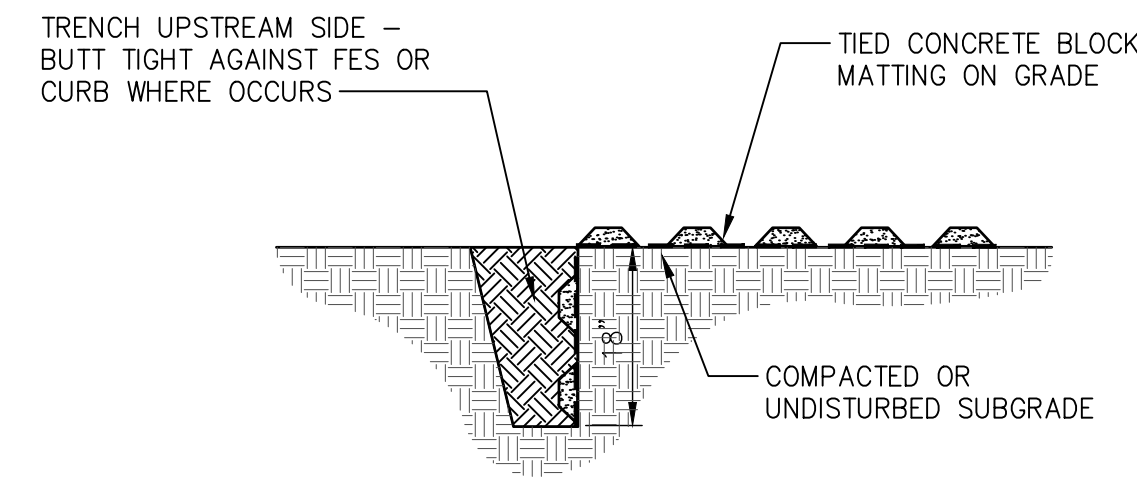
7 TRUNCATED DOME (ALTERNATIVE #2)
 34 NOT TO SCALE

8 BARN APPROACH BASE
 34 NOT TO SCALE



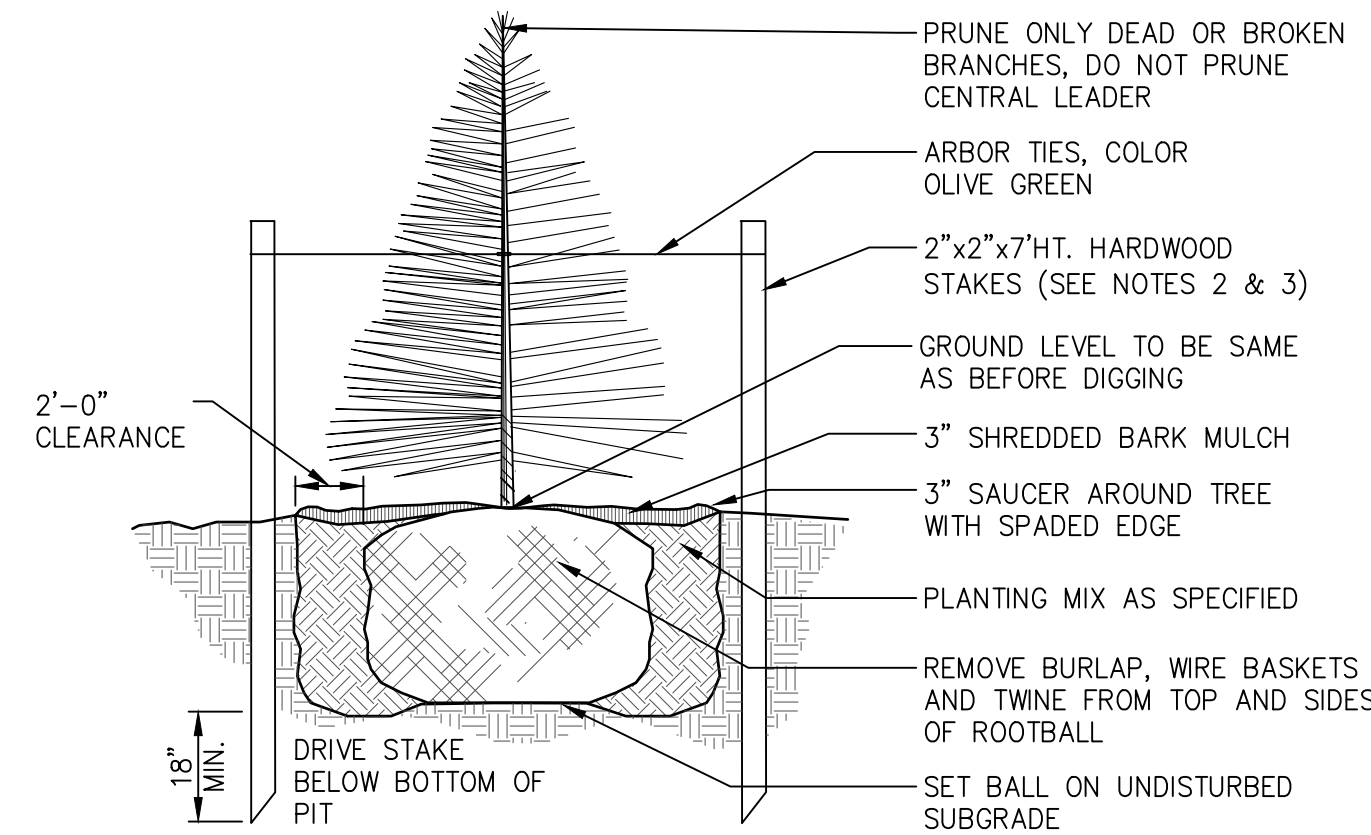
PLAN LEGEND

- TRAIL SECTION TYPES**
- TYPE 1 - CHIP & SEAL (1/30)
- PAVEMENT TYPES**
- AGGREGATE PAVEMENT (3/30)
- MISC.**
- PLANTING BED; SEE LANDSCAPE PLAN SHEET 29
 - BIORETENTION (5/35)
- BOUNDARIES**
- CONSTRUCTION LIMITS
 - EXISTING TREE TO REMAIN; SAVE AND PROTECT DURING CONSTRUCTION
 - TURFGRASS SEED AREA



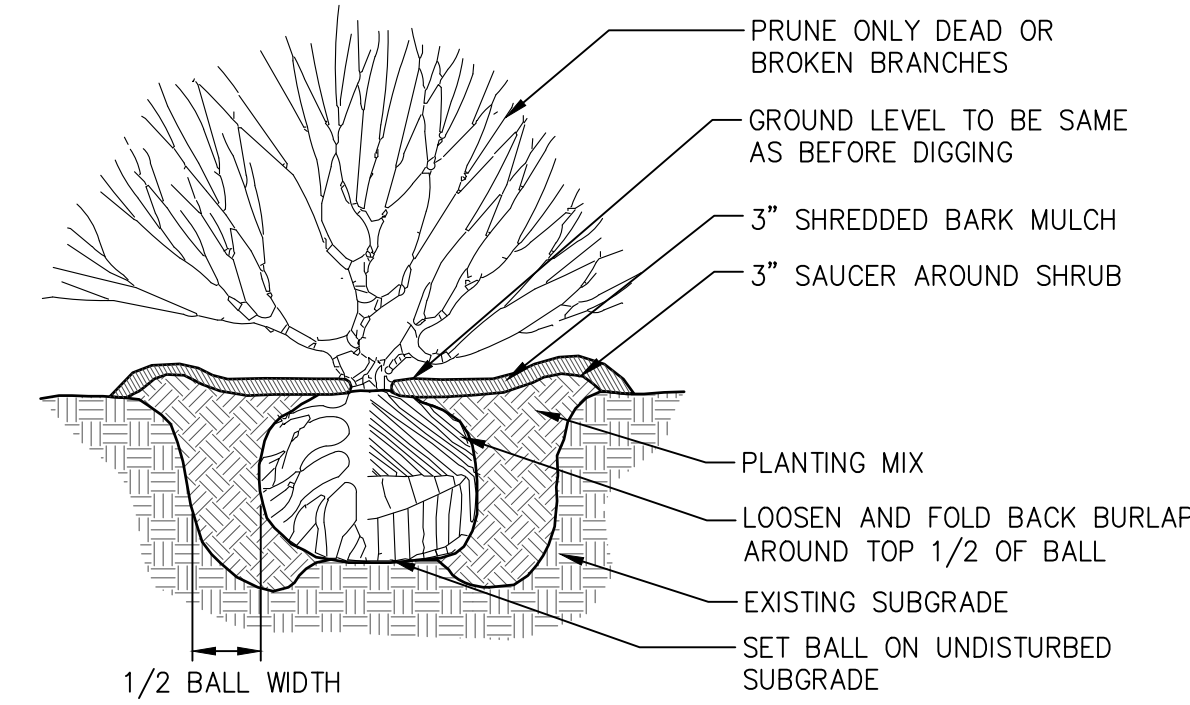
1 TIED CONCRETE BLOCK MAT
 35 NOT TO SCALE

NOTE:
 SEE LANDSCAPE SHEET FOR ADDITIONAL REQUIREMENTS.



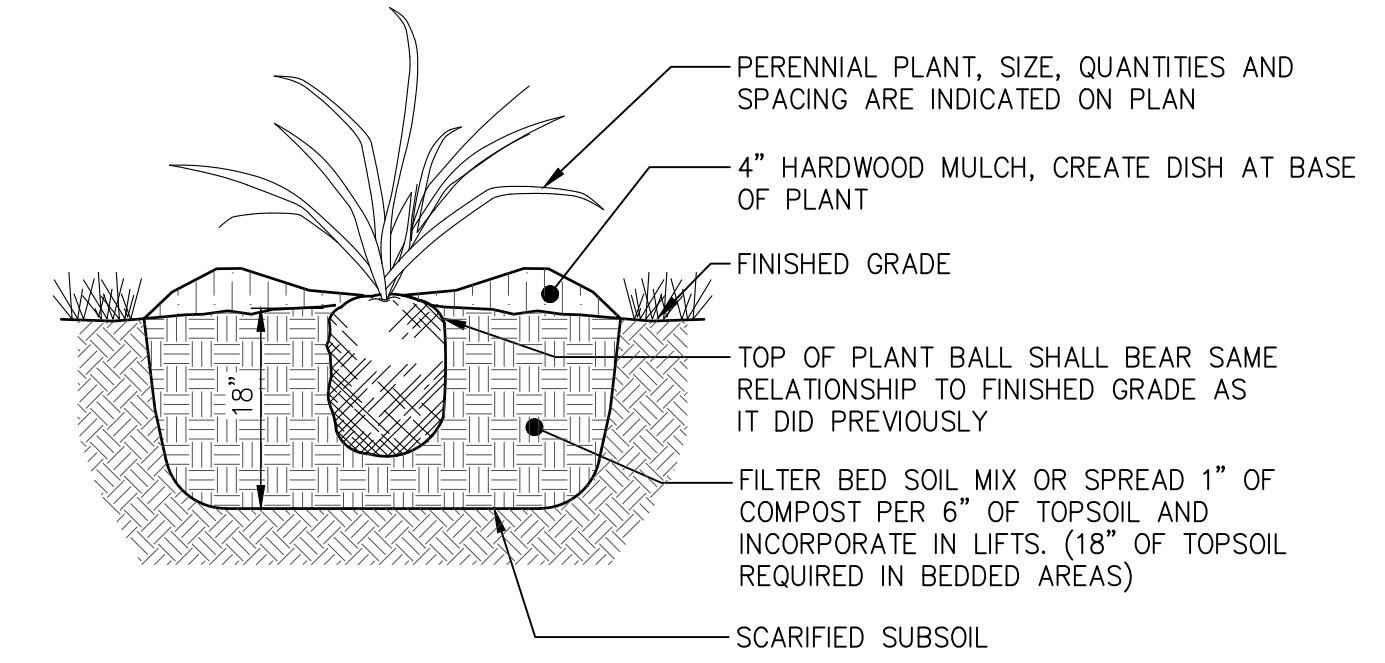
2 EVERGREEN TREE PLANTING DETAIL
 35 NOT TO SCALE

NOTE:
 SEE LANDSCAPE SHEET FOR ADDITIONAL REQUIREMENTS.

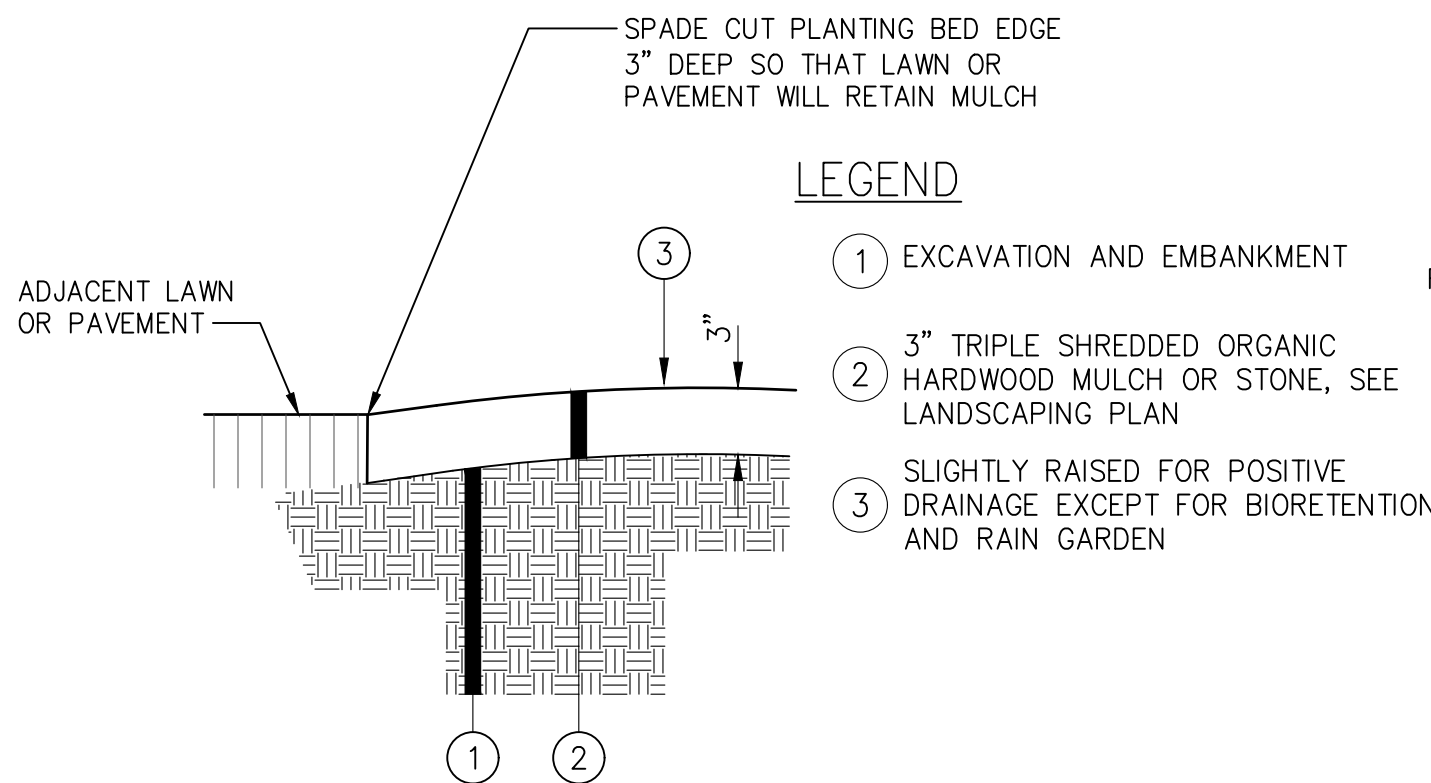
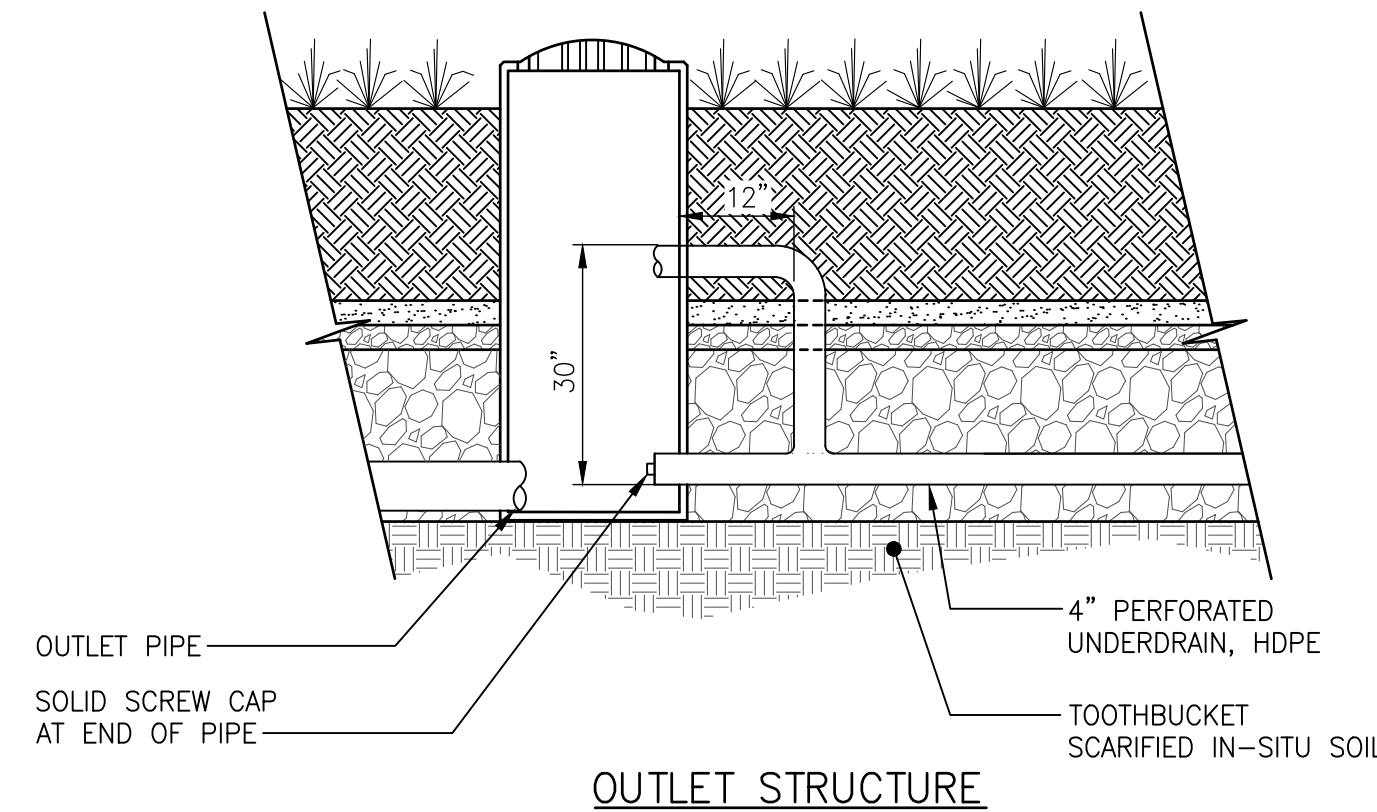


3 SHRUB PLANTING DETAIL
 35 NOT TO SCALE

NOTE:
 SEE LANDSCAPE SHEET FOR ADDITIONAL REQUIREMENTS.



4 PERENNIAL PLANTING
 35 NOT TO SCALE

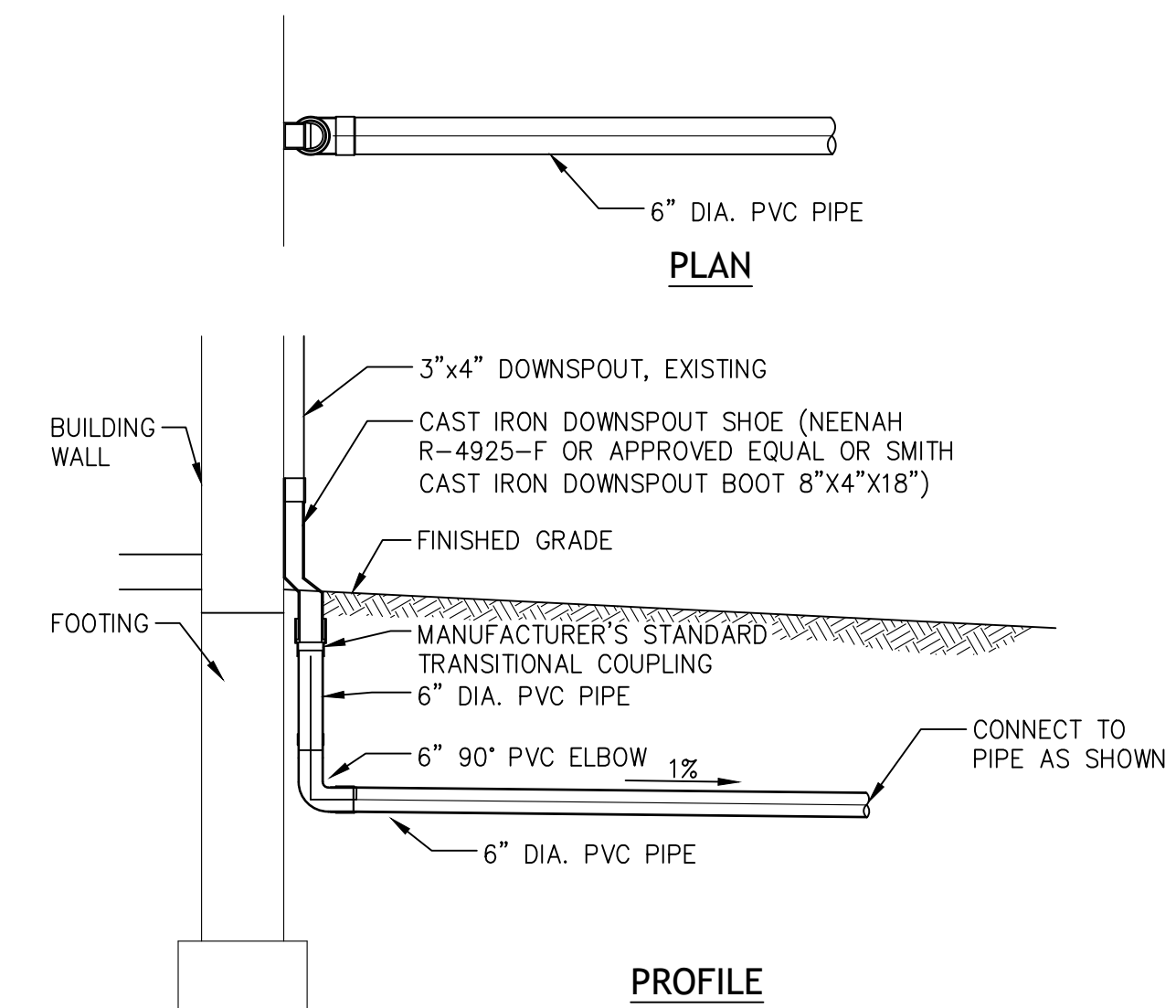
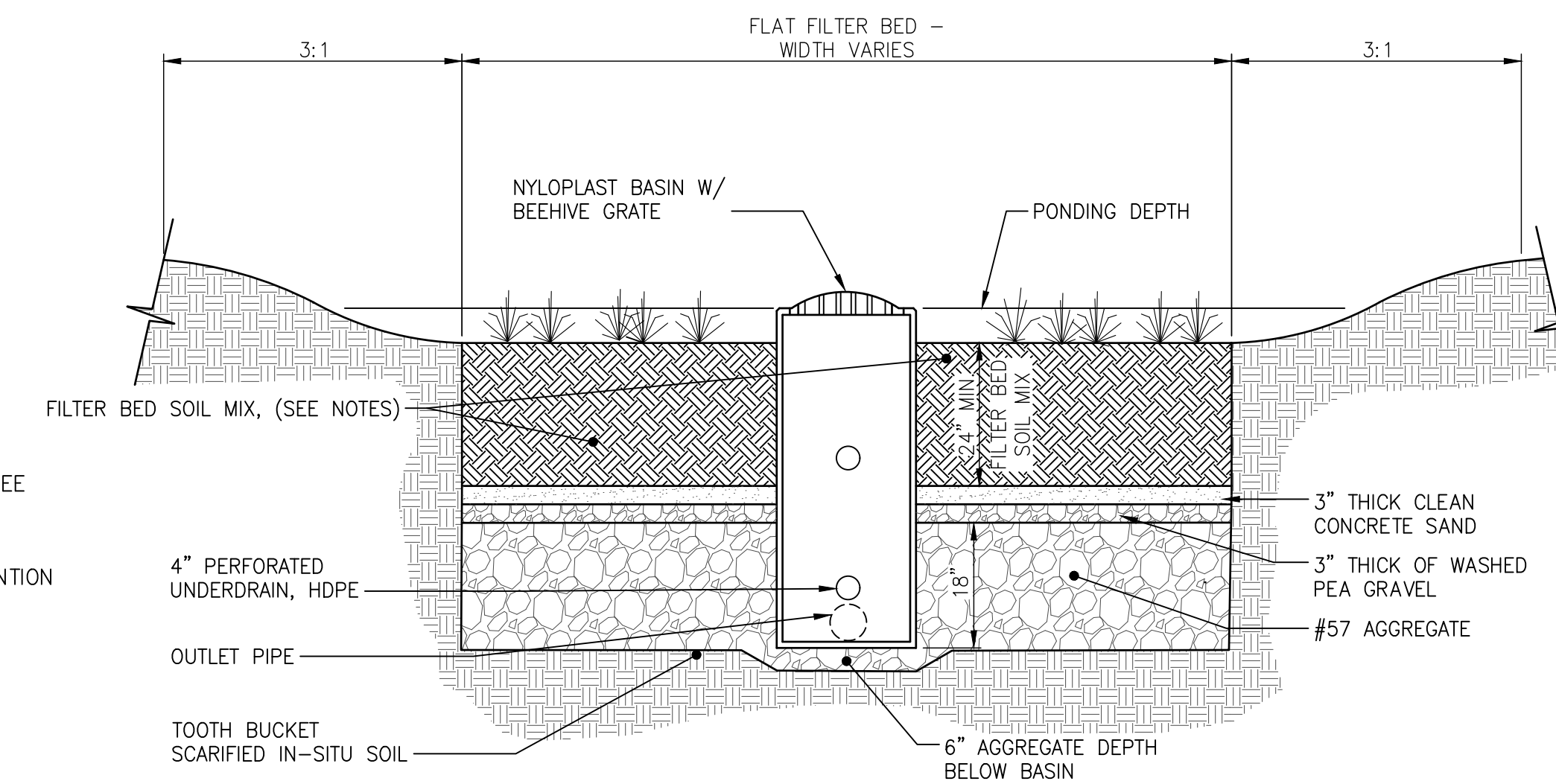


5 TYPICAL LANDSCAPE BED W/ SPADE CUT EDGING
 35 NOT TO SCALE

6 BIORETENTION DETAIL
 35 NOT TO SCALE

BIORETENTION BASIN NOTES
 1. SEE LANDSCAPE PLANS FOR BIORETENTION PLANTS AND SEEDING.
 2. SEE GRADING PLAN FOR ADDITIONAL INFORMATION.

FILTER BED SOIL MIX:
 TEXTURE CLASS: SANDY LOAM OR LOAMY SAND, HAVING NO LESS THAN 70% SAND AND NO GREATER THAN 10% CLAY CONSIDERING ONLY THE MINERAL FRACTION OF THE SOIL.
 pH RANGE: 5.2-8.0
 ORGANIC MATTER: 3%-5% BY WEIGHT
 PHOSPHORUS: SOIL p-INDEX SHOULD BE BETWEEN 15 AND 40
 SAND ADDED TO MEET TEXTURAL CLASS OR THE COMPOSITION BELOW SHALL BE CLEAN AND MEET AASHTO M 6 OR ASTM C33 WITH A GRAIN SIZE OF 0.02-0.04" INCHES.
 SOILS AND SOIL MIXES SHALL BE CERTIFIED BY A QUALIFIED LABORATORY, 1 TEST PER 100 CY OF SOIL.



7 DOWNSPOUT LATERAL CONNECTION
 35 NOT TO SCALE

MILL POND-MUD BROOK
 GREENWAY
 CITY OF CUYAHOGA FALLS



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