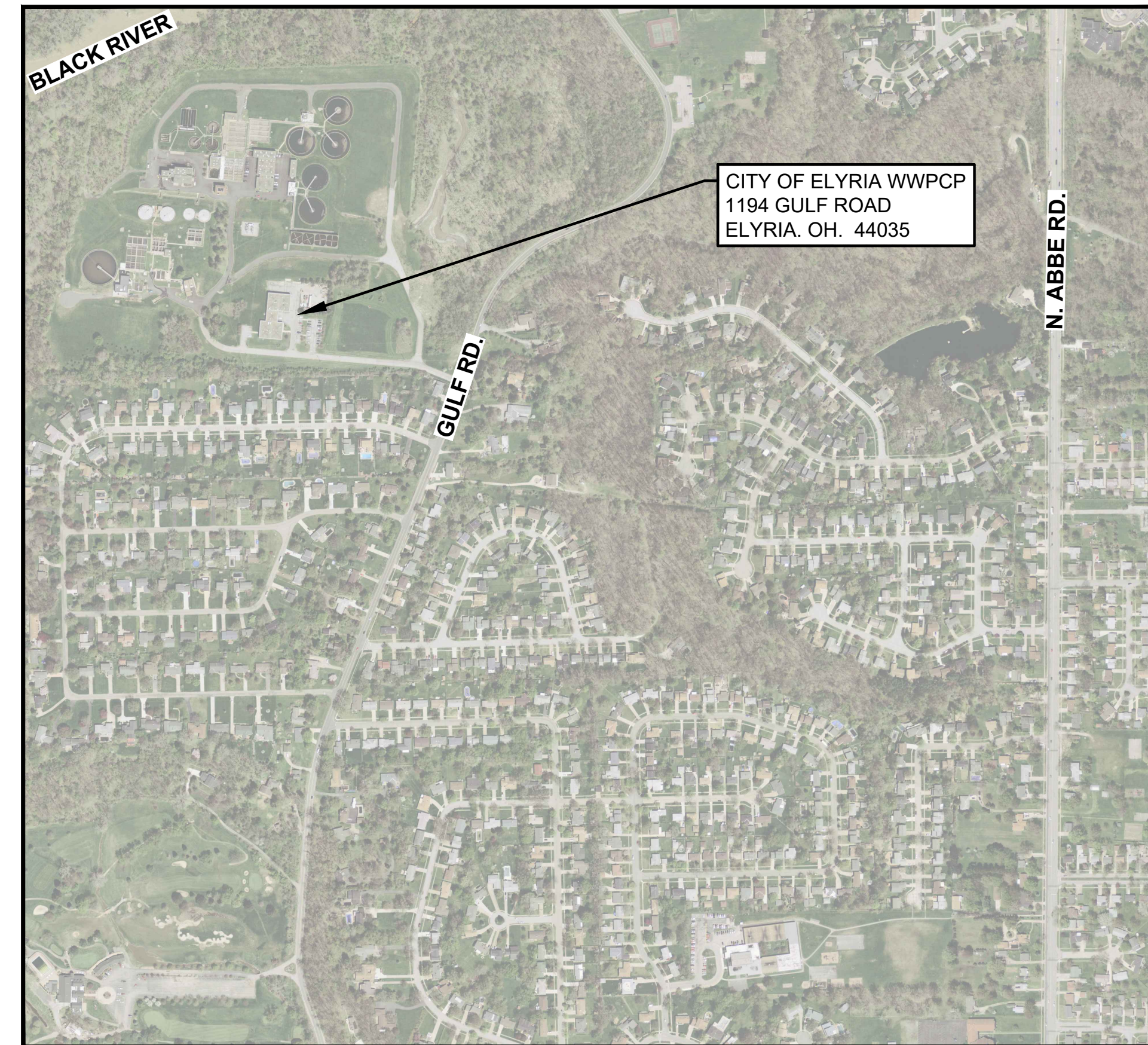
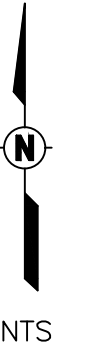
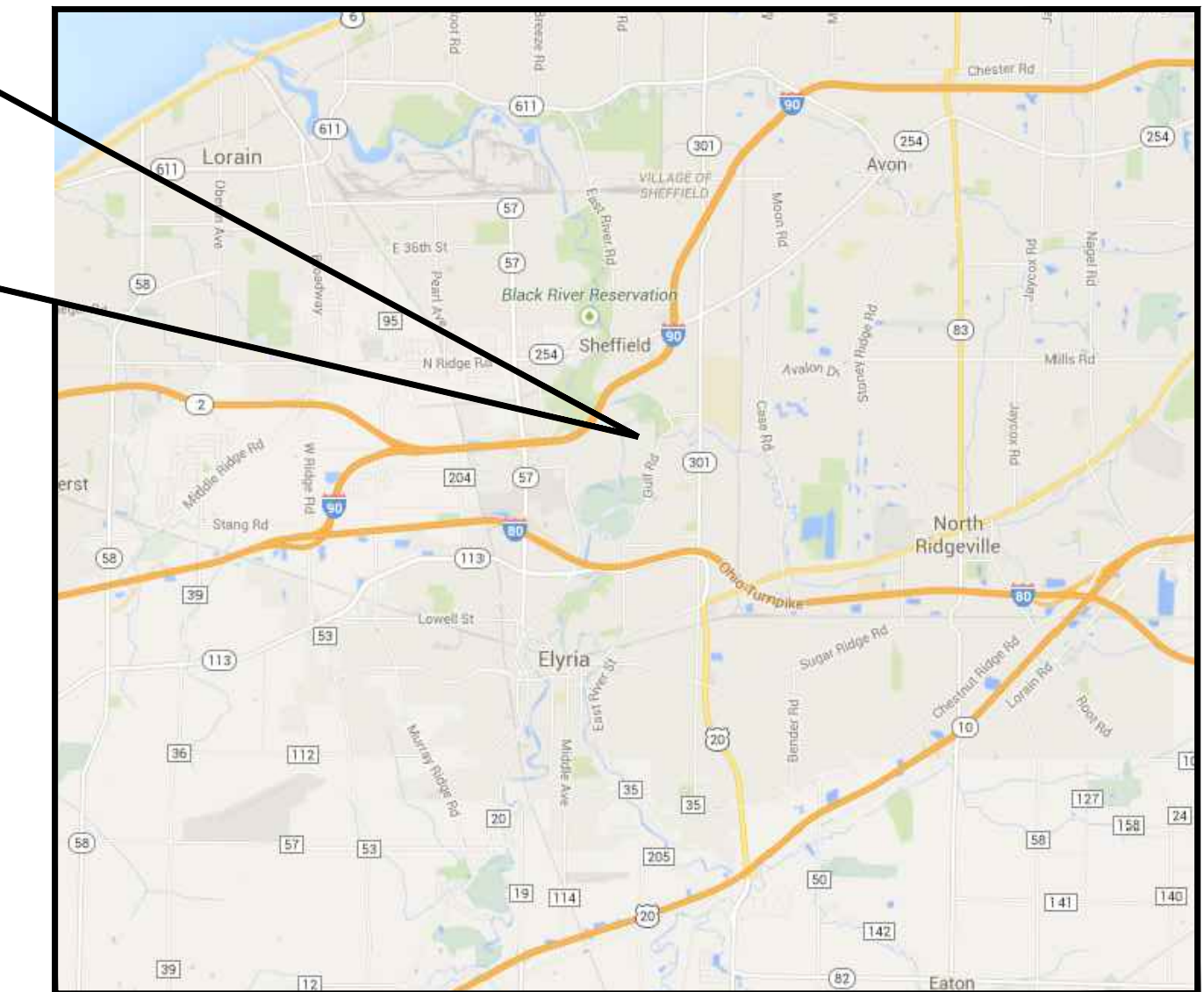


CITY OF ELYRIA, OH WASTEWATER POLLUTION CONTROL PLANT

SLUDGE LINE REPLACEMENT



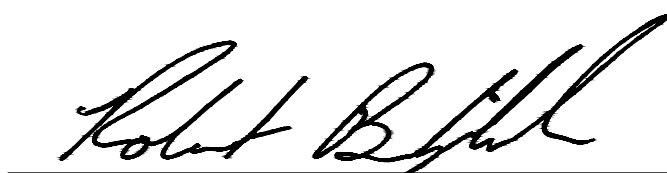
VICINITY MAP
NOT TO SCALE



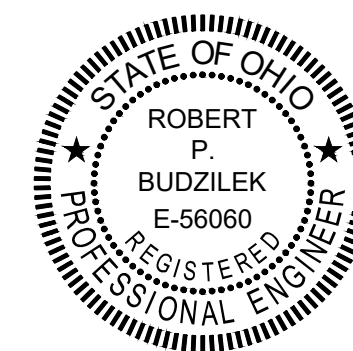
INDEX OF DRAWINGS

REV	REV DATE	SHEET NO.	TITLE
A	5-15-24	G-01	COVER SHEET & INDEX OF DRAWINGS
A	5-15-24	G-02	GENERAL NOTES, ABBREVIATIONS, LEGEND AND SYMBOLS
A	5-15-24	SK-01	CIVIL SITE & PROCESS KEY PLAN
A	5-15-24	CD-01	EXISTING FACILITIES AND DEMOLITION PLAN
A	5-15-24	CD-02	EXISTING FACILITIES AND DEMOLITION PLAN
A	5-15-24	CD-03	EXISTING FACILITIES AND DEMOLITION PLAN
A	5-15-24	CP-01	NEW OUTSIDE PIPING PLAN
A	5-15-24	CP-02	NEW OUTSIDE PIPING PLAN
A	5-15-24	CP-03	NEW OUTSIDE PIPING PLAN
A	5-15-24	CP-04	NEW OUTSIDE PIPING PROFILE
A	5-15-24	CP-05	REVISIONS TO EXISTING DETRITUS TANK EFFLUENT CHANNEL PLAN
A	5-15-24	P-01	PROCESS ENLARGED PIPING CONNECTION AT TUNNEL
A	5-15-24	P-02	PROCESS PROPOSED OVERALL ENLARGED PIPING PLAN NORTH
A	5-15-24	99-CP-01	CIVIL AND PROCESS DETAILS

SUBMITTED BY AECOM


ROBERT P. BUDZILEK, P.E.

9/24/24
DATE




ISSUED FOR BID
SEPTEMBER 24, 2024

ACCEPTED BY THE CITY OF ELYRIA

 9-24-24

KEVIN BRUBAKER **DATE**
MAYOR

CHRIS PYANOWSKI **DATE**
SAFETY-SERVICE DIRECTOR

 9/24/24

JOHN SCHNEIDER, P.E. **DATE**
CITY ENGINEER

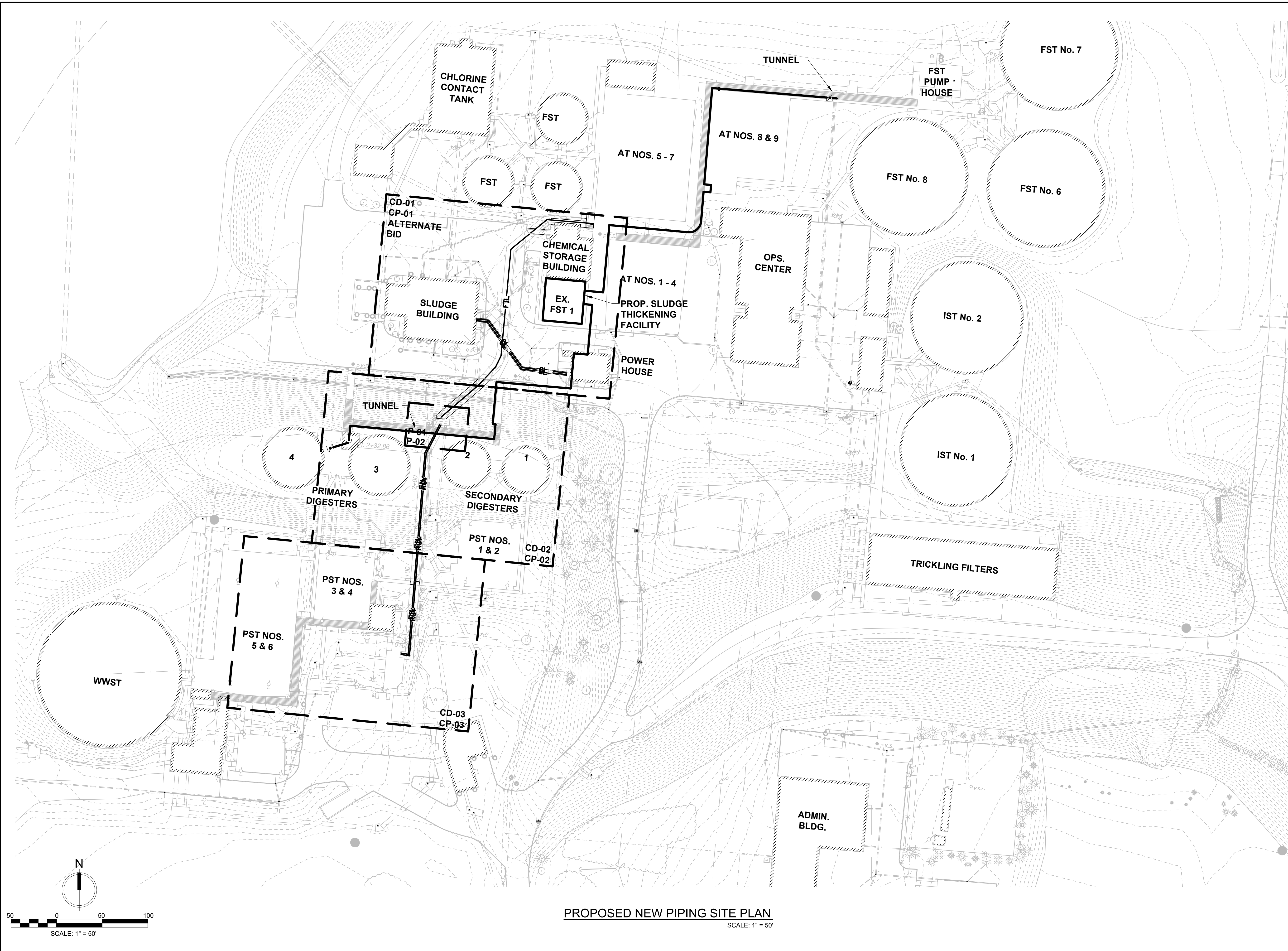
SHAYNE STEWERT **DATE**
PLANT SUPERINTENDENT

PREPARED BY:



1300 EAST 9TH STREET, SUITE 500
 CLEVELAND, OH 44114
 216.622.2300 tel 216.622.2301 fax
 www.aecom.com





PROPOSED NEW PIPING SITE PLAN
 SCALE: 1" = 50'



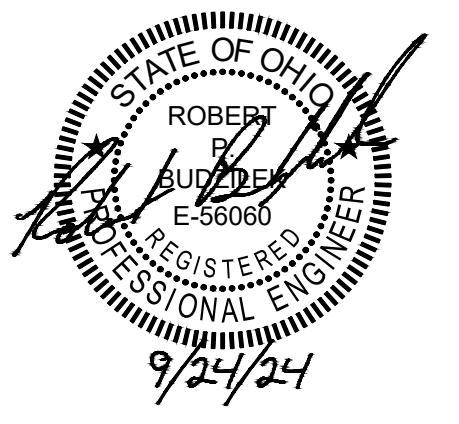
PROJECT
SLUDGE LINE REPLACEMENT

WASTEWATER POLLUTION CONTROL PLANT
 1194 GULF ROAD
 ELYRIA, OH

CLIENT
CITY OF ELYRIA
 DEPARTMENT OF PUBLIC SERVICE
 131 COURT STREET
 ELYRIA, OH

CONSULTANT
 AECOM
 1300 E. 9TH STREET, SUITE 500
 CLEVELAND, OH 44114
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REGISTRATION



ISSUE/REVISION

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A	09-24-2024	ISSUED FOR BID
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PROJECT NUMBER

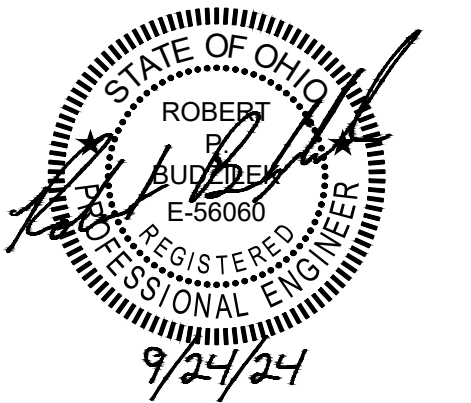
60332065

SHEET TITLE

CIVIL SITE & PROCESS
 KEY PLAN

SHEET NUMBER

SK-01



A	09-24-2024	ISSUED FOR BID
I/R	DATE	DESCRIPTION

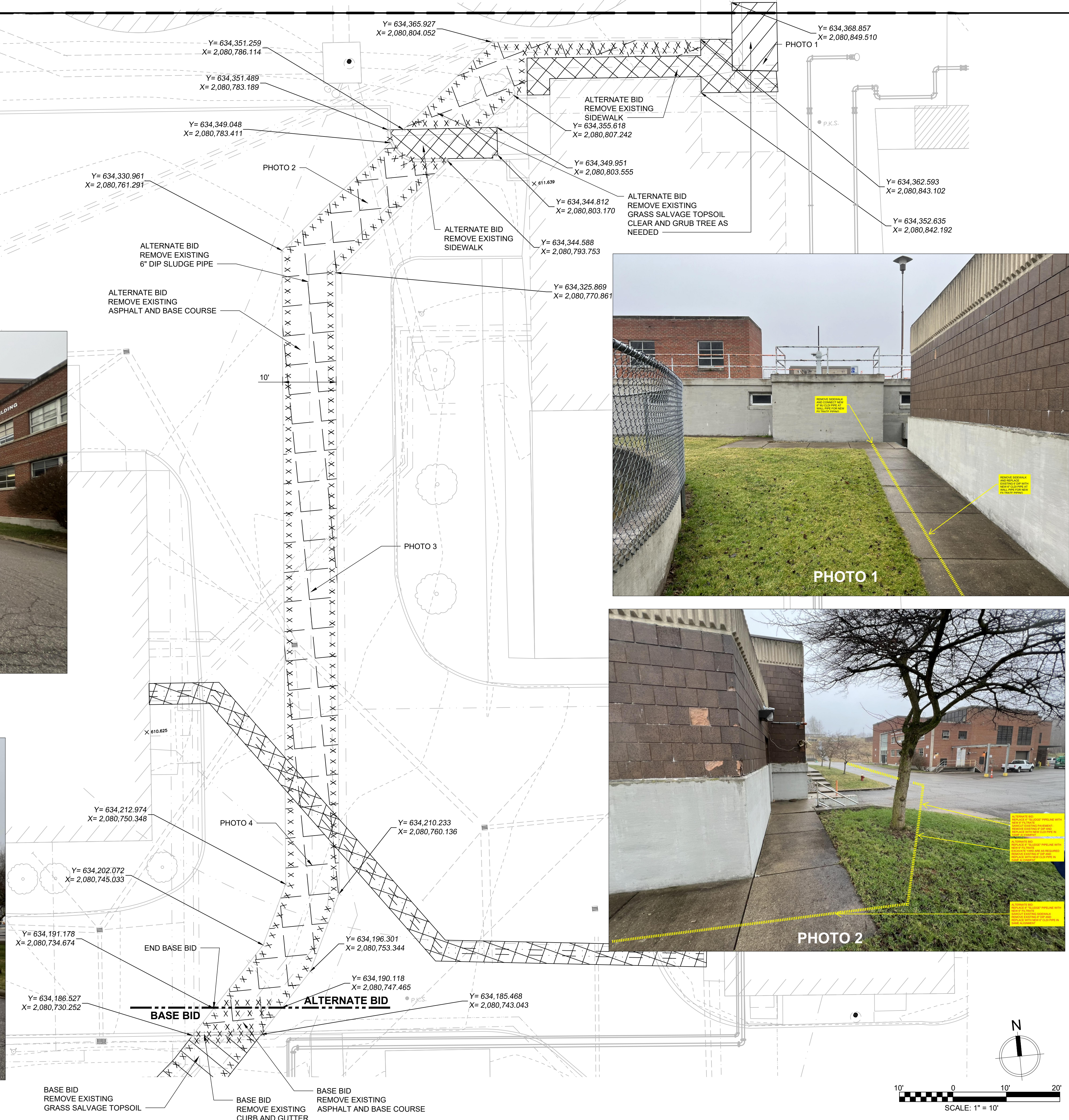
60332065

EXISTING FACILITIES AND
 DEMOLITION PLAN

CD-01

GENERAL NOTES

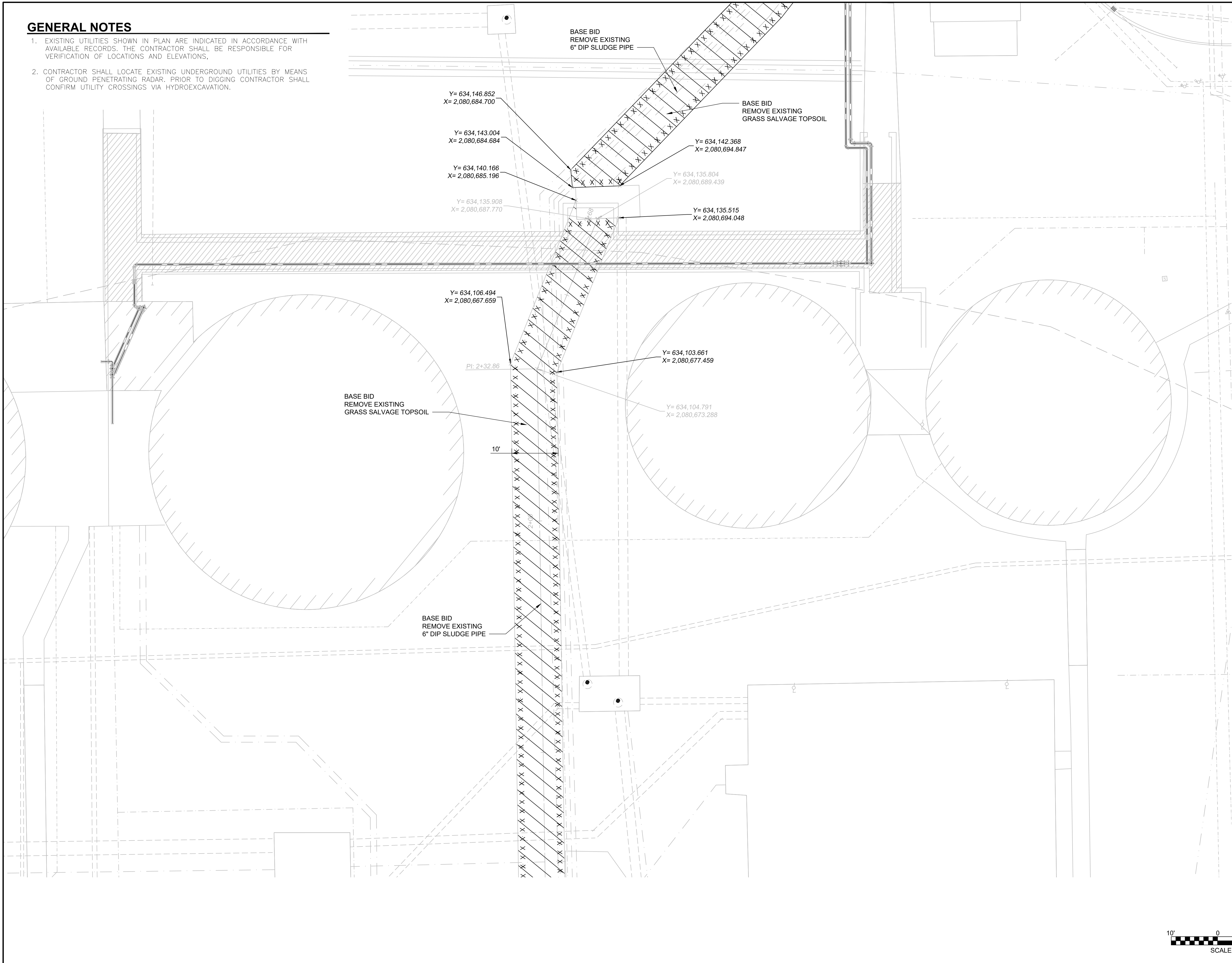
- EXISTING UTILITIES SHOWN IN PLAN ARE INDICATED IN ACCORDANCE WITH AVAILABLE RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF LOCATIONS AND ELEVATIONS.
- CONTRACTOR SHALL LOCATE EXISTING UNDERGROUND UTILITIES BY MEANS OF GROUND PENETRATING RADAR. PRIOR TO DIGGING CONTRACTOR SHALL CONFIRM UTILITY CROSSINGS VIA HYDROEXCAVATION.



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 Project Management Initials: Designer: Checked: Approved: ANS I D 22' x 34'

GENERAL NOTES

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PROJECT

SLUDGE LINE REPLACEMENT

WASTEWATER POLLUTION CONTROL PLANT
 1194 GULF ROAD
 ELYRIA, OH

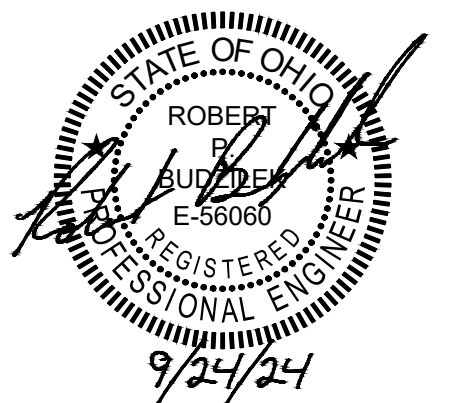
CLIENT

CITY OF ELYRIA
 DEPARTMENT OF PUBLIC SERVICE
 131 COURT STREET
 ELYRIA, OH

CONSULTANT

AECOM
 1300 E. 9TH STREET, SUITE 500
 CLEVELAND, OH 44114
 216.622.23000 tel 216.622.2301 fax
 www.aecom.com

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PROJECT NUMBER

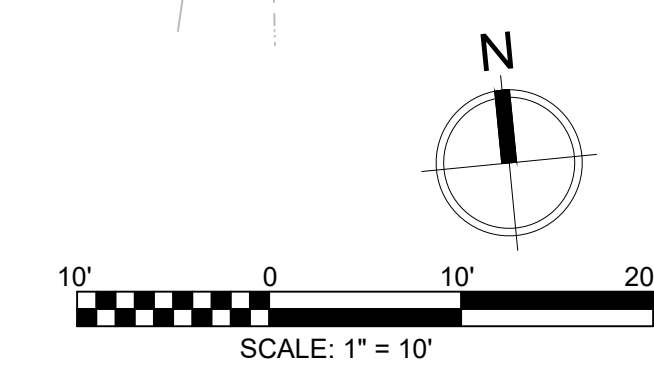
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SHEET TITLE

EXISTING FACILITIES AND DEMOLITION PLAN

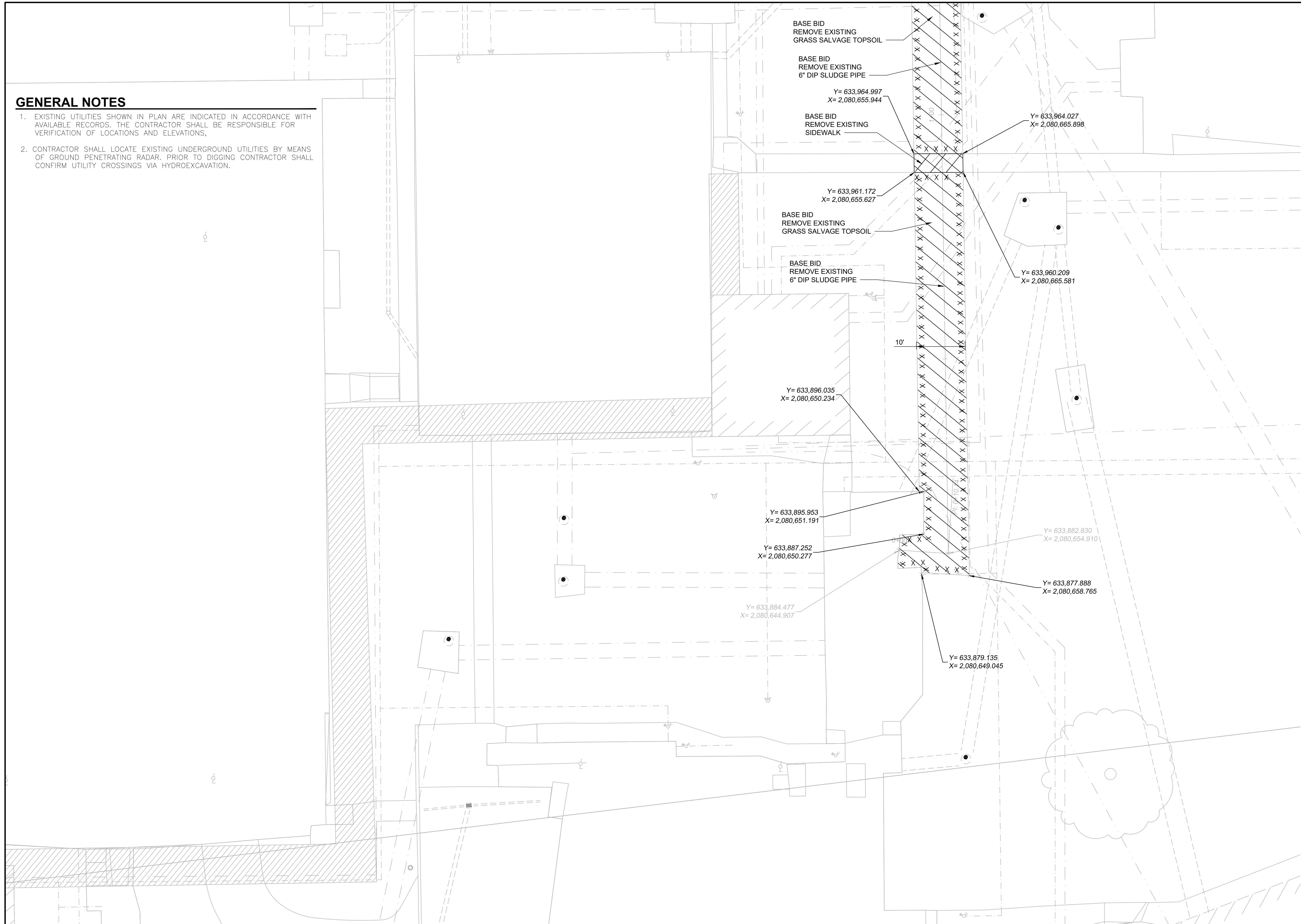
SHEET NUMBER

CD-02



GENERAL NOTES

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PROJECT

SLUDGE LINE REPLACEMENT

WASTEWATER POLLUTION CONTROL PLANT
1194 GULF ROAD
ELYRIA, OH

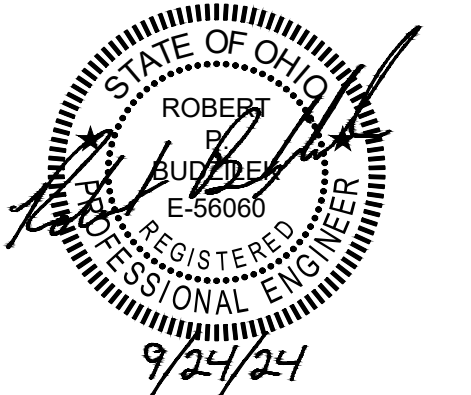
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DEPARTMENT OF PUBLIC SERVICE
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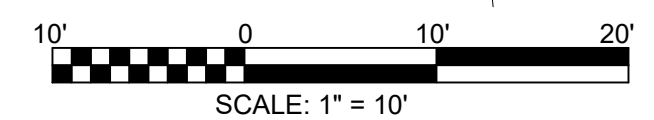
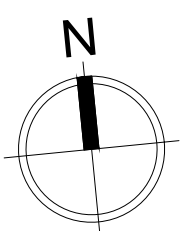
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SHEET TITLE

EXISTING FACILITIES AND DEMOLITION PLAN

SHEET NUMBER

CD-03



ANS I D 22' x 34' Approved: _____ Checked: _____ Designer: _____ Project Management Initials: _____
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- RESTORE ALL LAWN SURFACES VIA 6" TOPSOIL, SEED, FERTILIZER AND E-MAT.

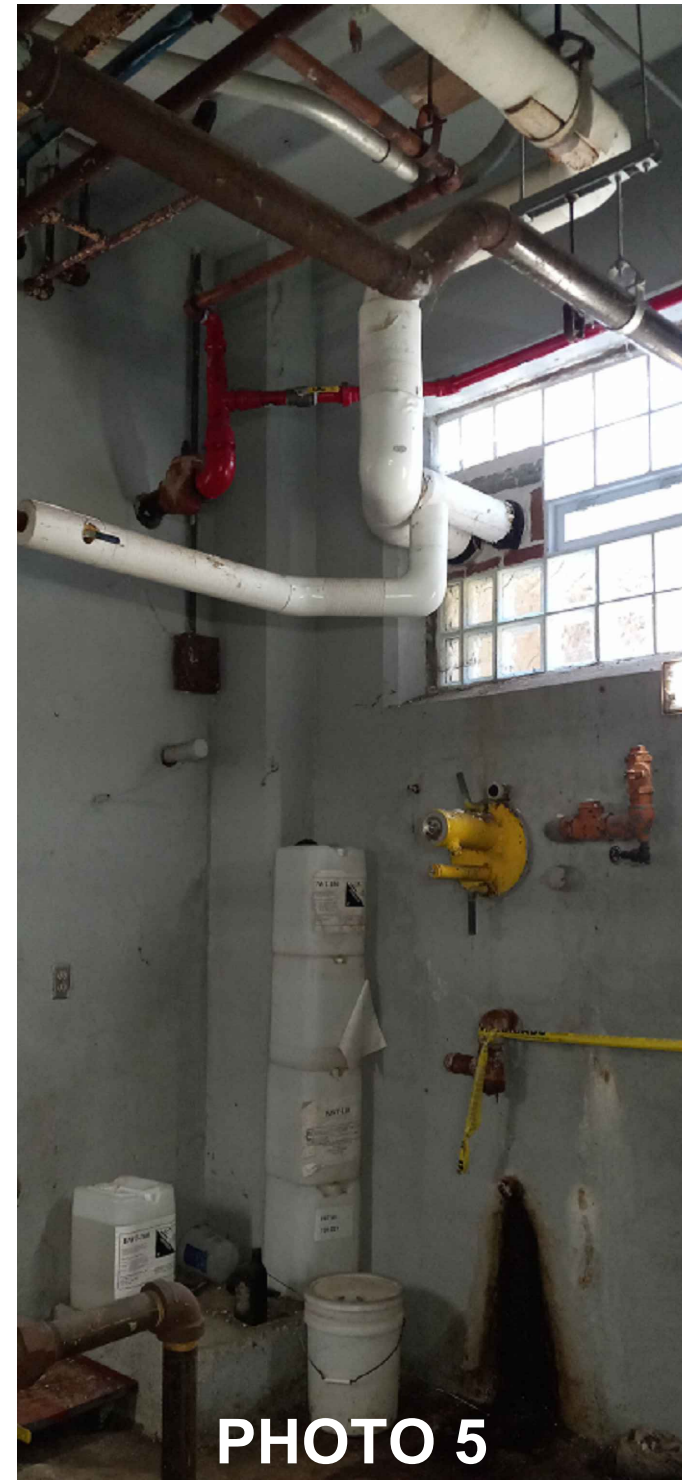
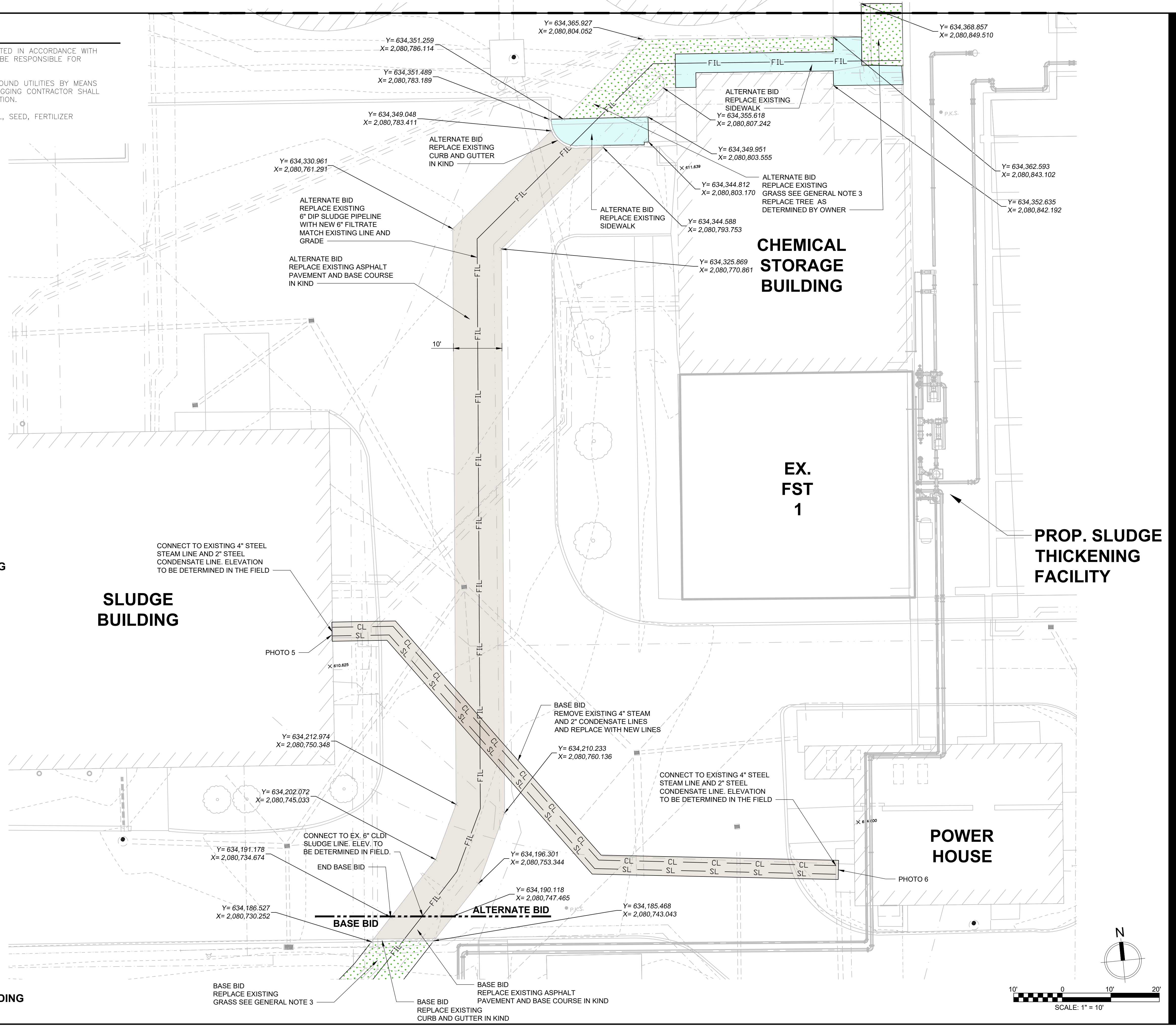


PHOTO 5
STEAM AND CONDENSATE LINE CONNECTIONS IN SLUDGE BUILDING



PHOTO 6
STEAM AND CONDENSATE LINE CONNECTIONS IN POWER HOUSE BUILDING



PROJECT
SLUDGE LINE REPLACEMENT

WASTEWATER POLLUTION CONTROL PLANT
1194 GULF ROAD
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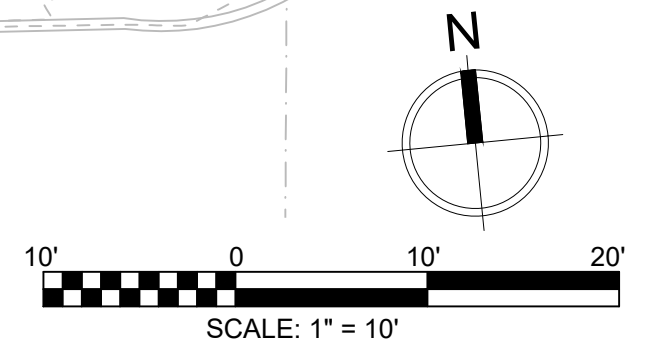
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SHEET TITLE

NEW OUTSIDE
PIPING PLAN

SHEET NUMBER

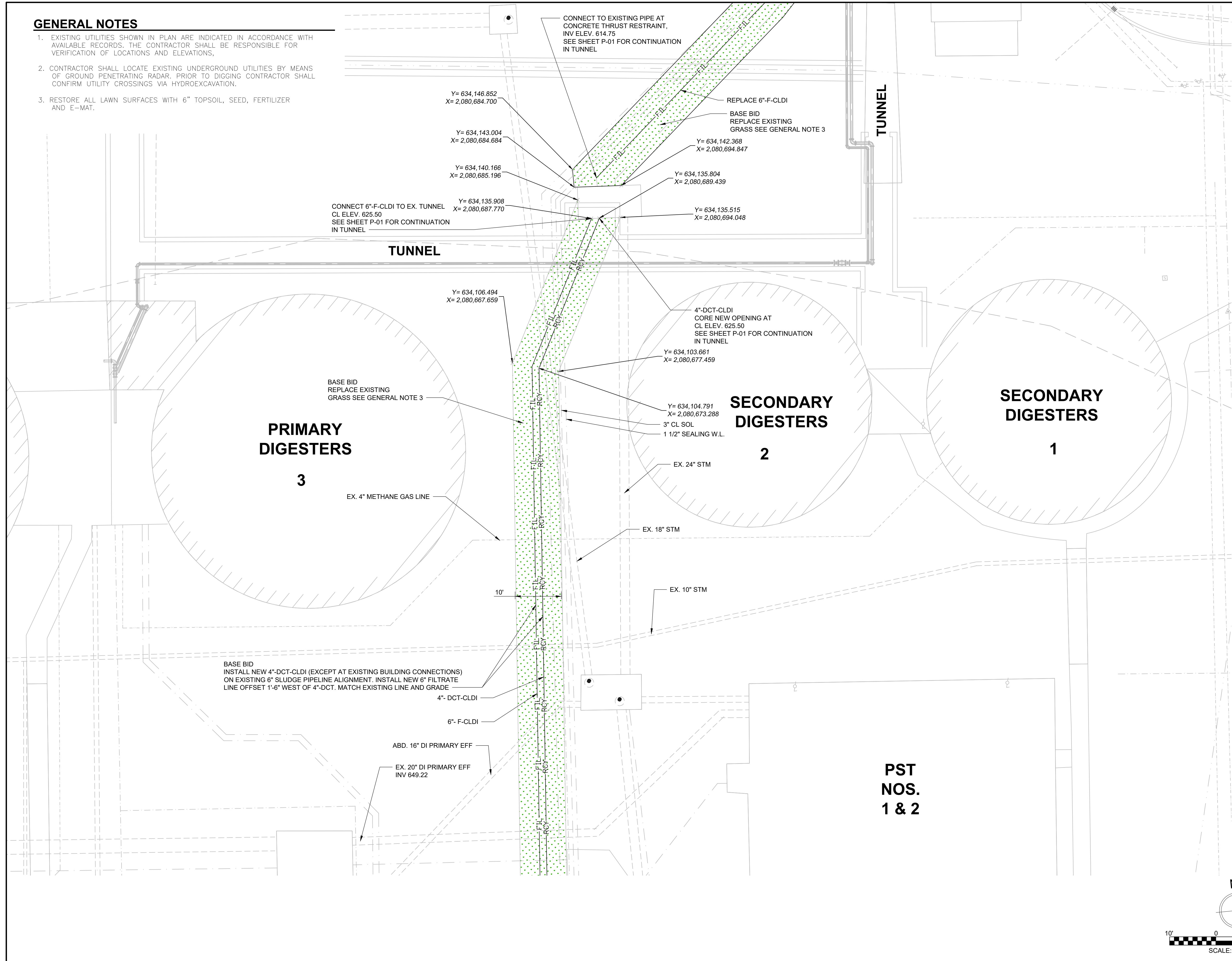
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PROJECT

SLUDGE LINE REPLACEMENT

WASTEWATER POLLUTION CONTROL PLANT
1194 GULF ROAD
ELYRIA, OH

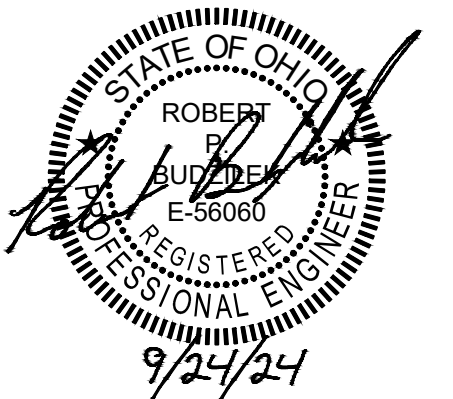
CLIENT

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DEPARTMENT OF PUBLIC SERVICE
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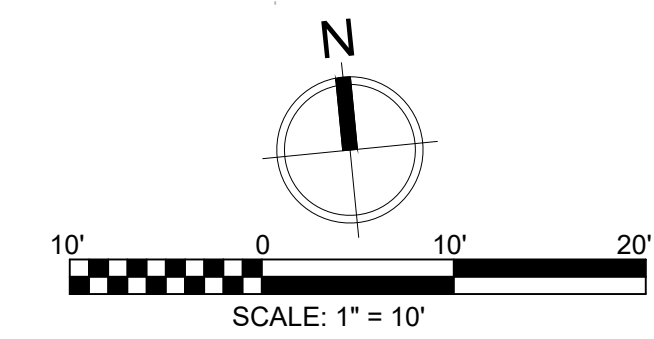
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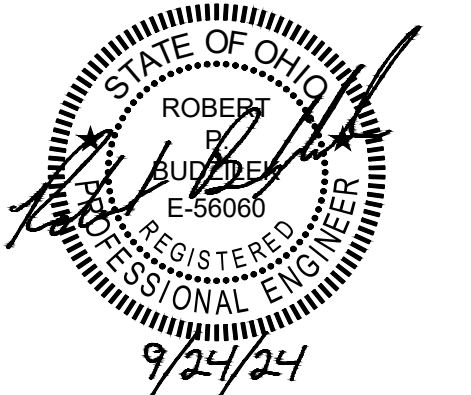
SHEET TITLE

NEW OUTSIDE
PIPING PLAN

SHEET NUMBER

CP-02



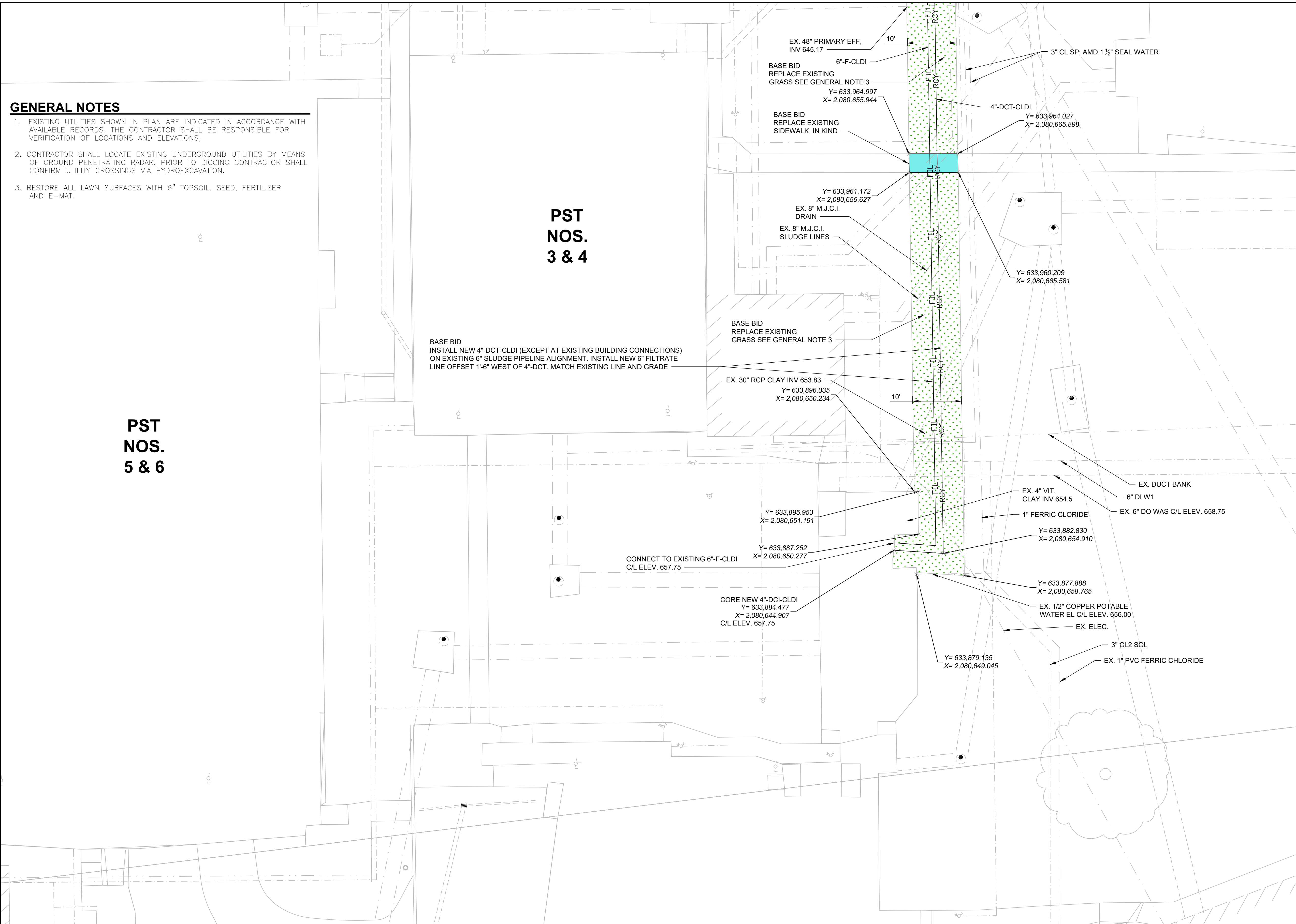


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60332065

NEW OUTSIDE
 PIPING PLAN

CP-03



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- RESTORE ALL LAWN SURFACES WITH 6" TOPSOIL, SEED, FERTILIZER AND E-MAT.

**PST
 NOS.
 5 & 6**

**PST
 NOS.
 3 & 4**

BASE BID
 INSTALL NEW 4"-DCT-CLDI (EXCEPT AT EXISTING BUILDING CONNECTIONS)
 ON EXISTING 6" SLUDGE PIPELINE ALIGNMENT. INSTALL NEW 6" FILTRATE
 LINE OFFSET 1'-6" WEST OF 4"-DCT. MATCH EXISTING LINE AND GRADE

EX. 30" RCP CLAY INV 653.83
 Y= 633,896.035
 X= 2,080,650.234

Y= 633,895.953
 X= 2,080,651.191

Y= 633,887.252
 X= 2,080,650.277

CORE NEW 4"-DCI-CLDI
 Y= 633,884.477
 X= 2,080,644.907
 C/L ELEV. 657.75

Y= 633,879.135
 X= 2,080,649.045

Y= 633,882.830
 X= 2,080,654.910

Y= 633,877.888
 X= 2,080,658.765

EX. 1/2" COPPER POTABLE
 WATER EL C/L ELEV. 656.00
 EX. ELEC.

Y= 633,877.888
 X= 2,080,658.765

EX. 1" PVC FERRIC CHLORIDE

Y= 633,960.209
 X= 2,080,665.581

Y= 633,964.027
 X= 2,080,665.898

Y= 633,961.172
 X= 2,080,655.627

EX. 8" M.J.C.I.
 DRAIN

EX. 8" M.J.C.I.
 SLUDGE LINES

EX. 48" PRIMARY EFF,
 INV 645.17

6"-F-CLDI
 BASE BID
 REPLACE EXISTING
 GRASS SEE GENERAL NOTE 3
 Y= 633,964.997
 X= 2,080,655.944

BASE BID
 REPLACE EXISTING
 SIDEWALK IN KIND

3" CL SP; AMD 1 1/2" SEAL WATER

4"-DCT-CLDI

EX. 4" VIT.
 CLAY INV 654.5

1" FERRIC CHLORIDE

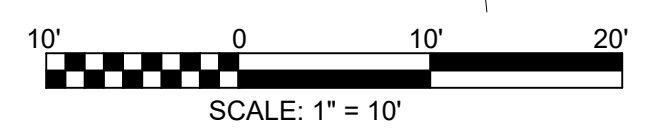
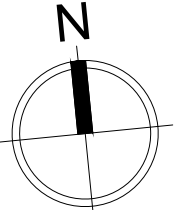
EX. DUCT BANK

EX. 6" DO WAS C/L ELEV. 658.75

6" DI W1

3" CL2 SOL

EX. 1" PVC FERRIC CHLORIDE



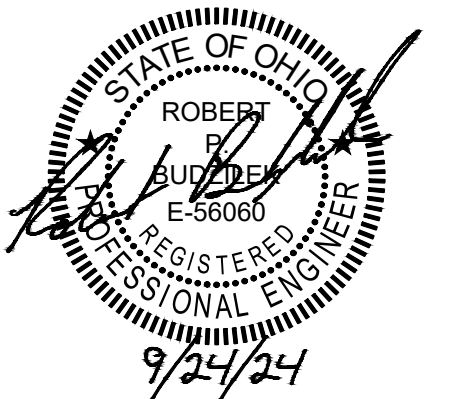
PROJECT
SLUDGE LINE REPLACEMENT

WASTEWATER POLLUTION CONTROL PLANT
 1194 GULF ROAD
 ELYRIA, OH

CLIENT
CITY OF ELYRIA
 DEPARTMENT OF PUBLIC SERVICE
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 ELYRIA, OH

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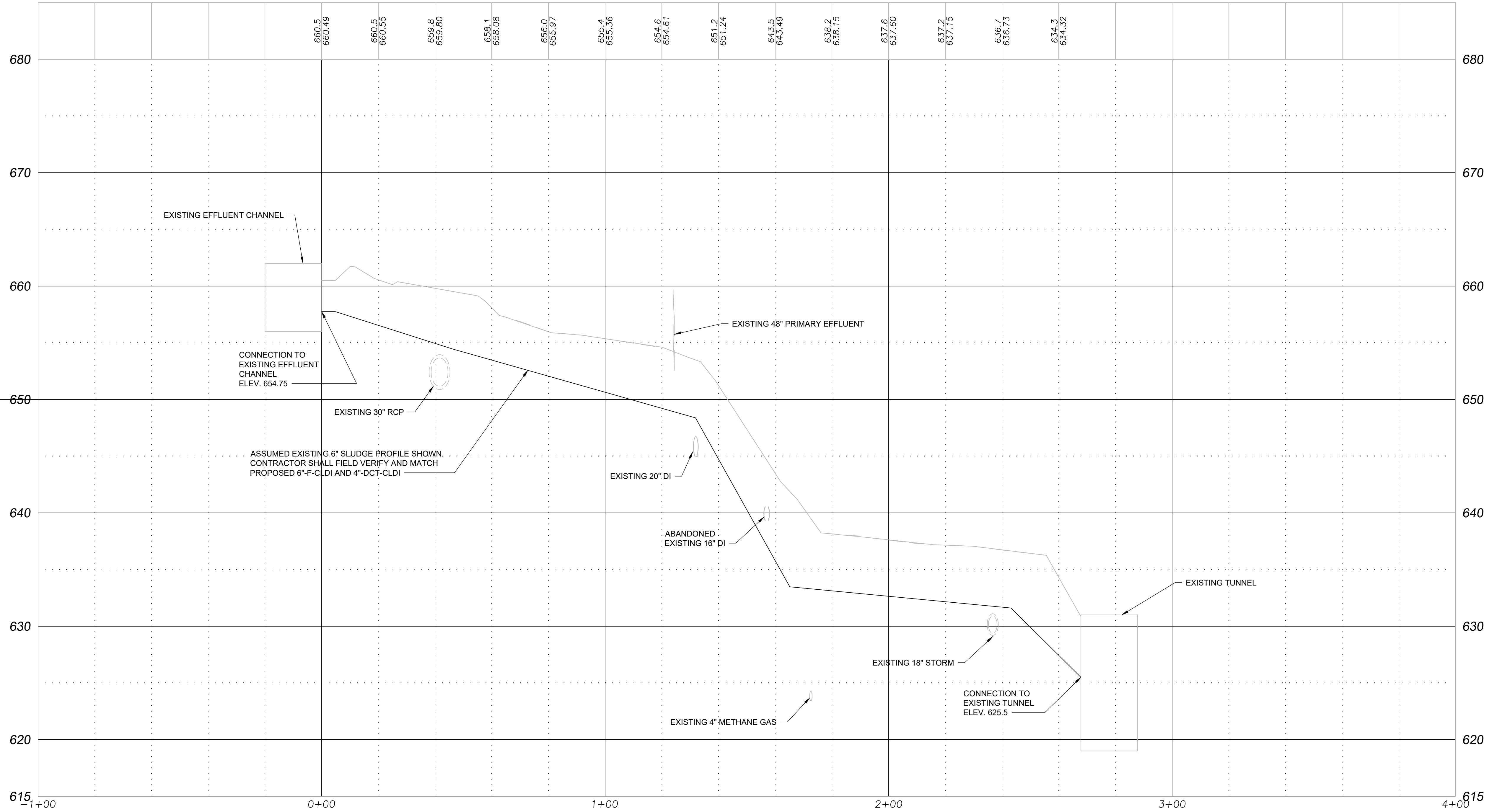
60332065

SHEET TITLE

NEW OUTSIDE
 PIPING PROFILE

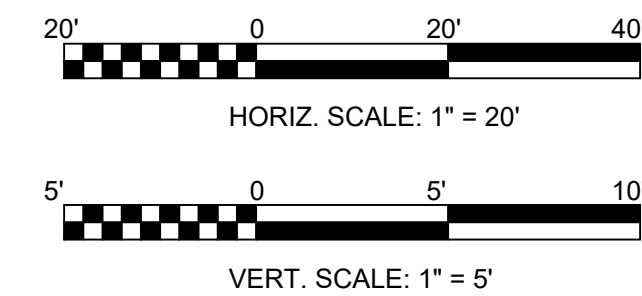
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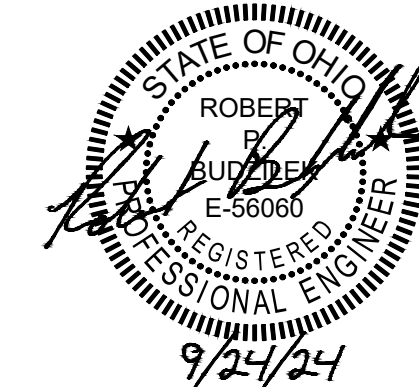
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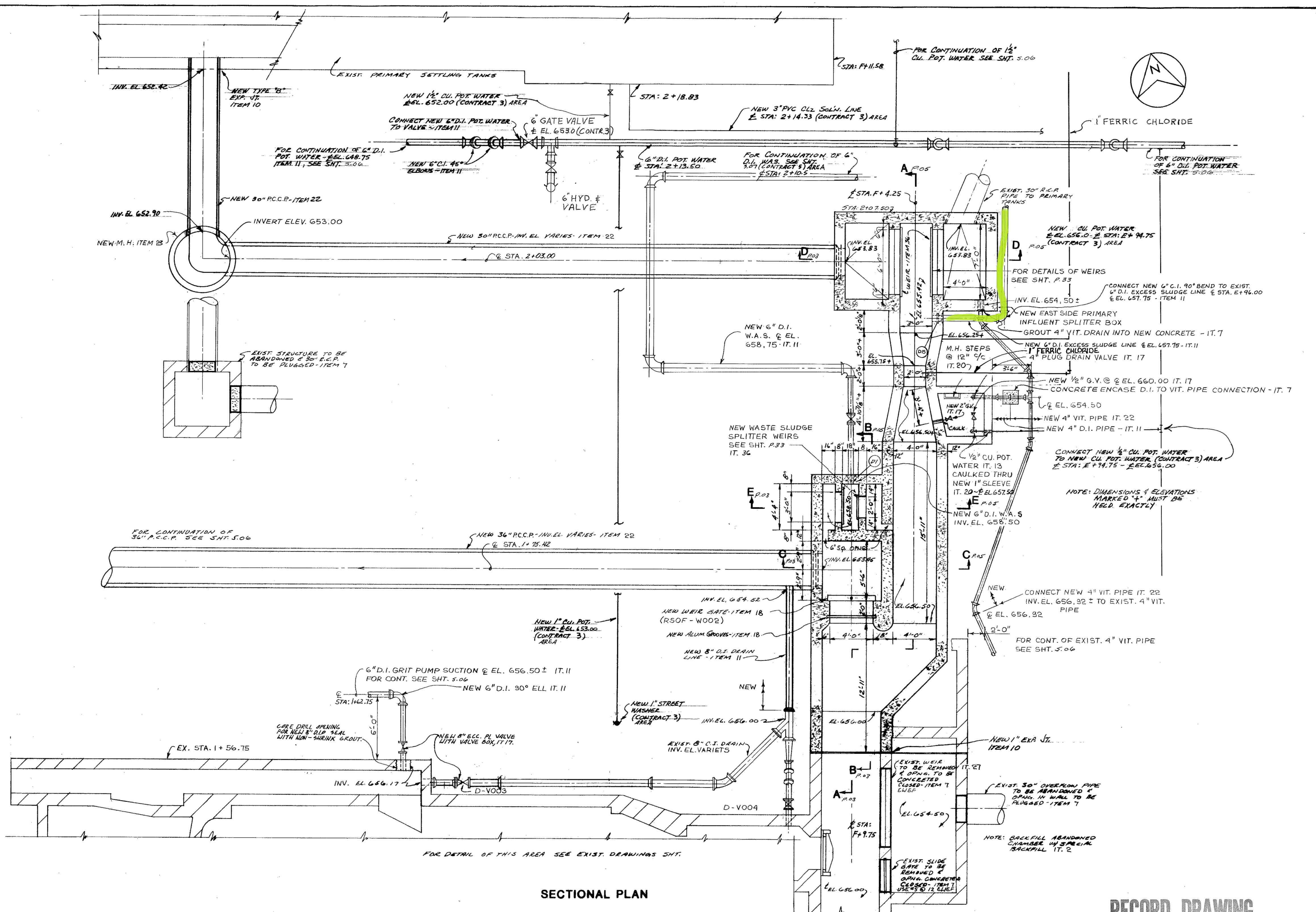
GENERAL NOTES

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- SEE DRAWING CP-01 TO CP-03 FOR APPROXIMATE LOCATION OF OTHER UNDERGROUND UTILITIES (NOT SHOWN HERE).



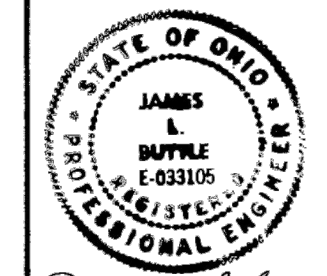


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I/R		



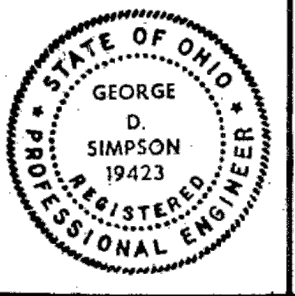
SECTIONAL PLAN

RECORD DRAWING 1345-190



NO.	DESCRIPTION	DATE
3-87	REVISED AS BUILT	
REVISIONS		

HAVENS AND EMERSON INC.
CONSULTING ENGINEERS



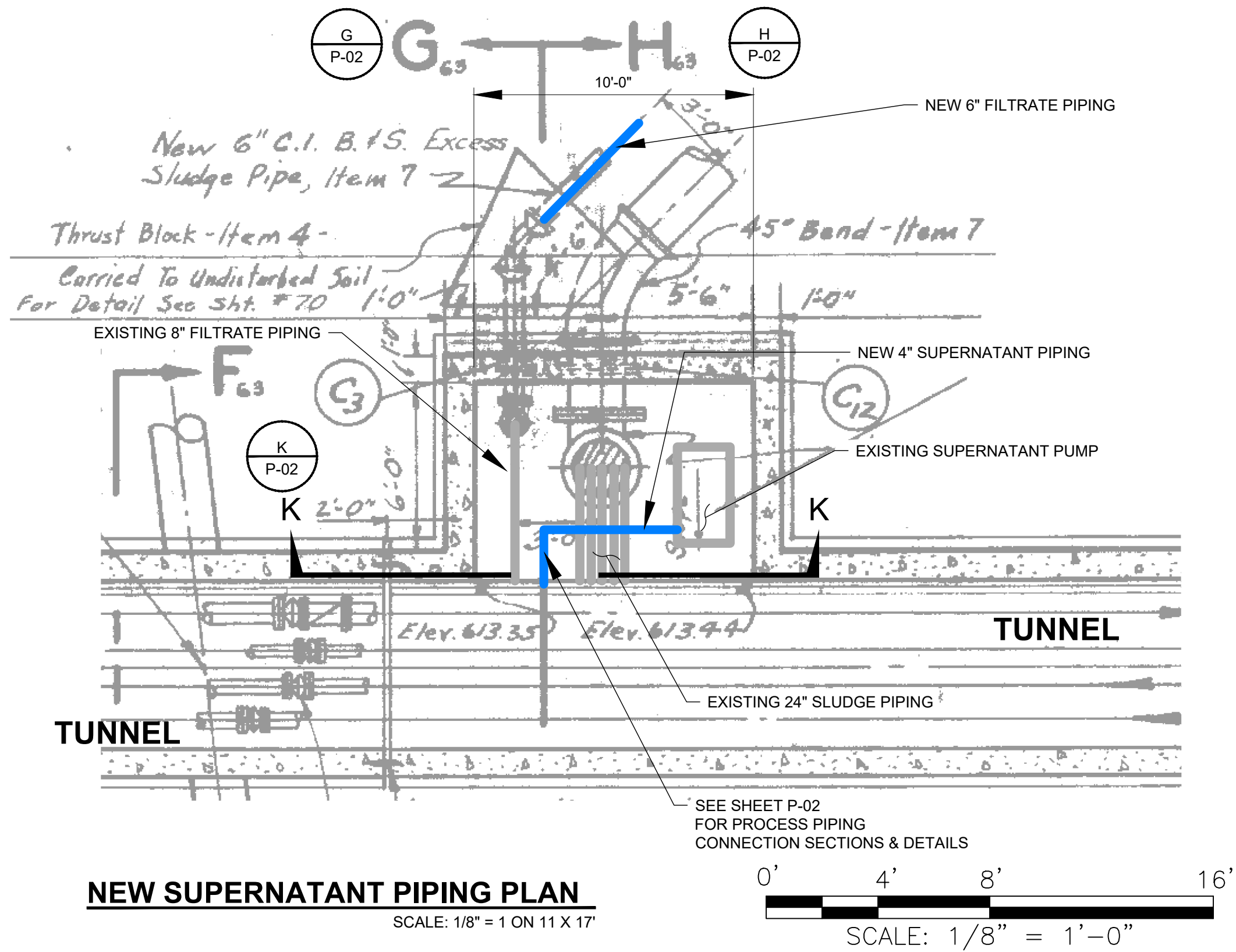
DESIGNED BY: *W.B.* DRAWN BY: *JAT*
 APPROVED BY: *R.W. Scott*
 SUBMITTED BY: *M.D. Simpson*
 DATE: *6-10-83*

APPROVED BY: *James L. Buttle*
 DATE: *11-26-85*

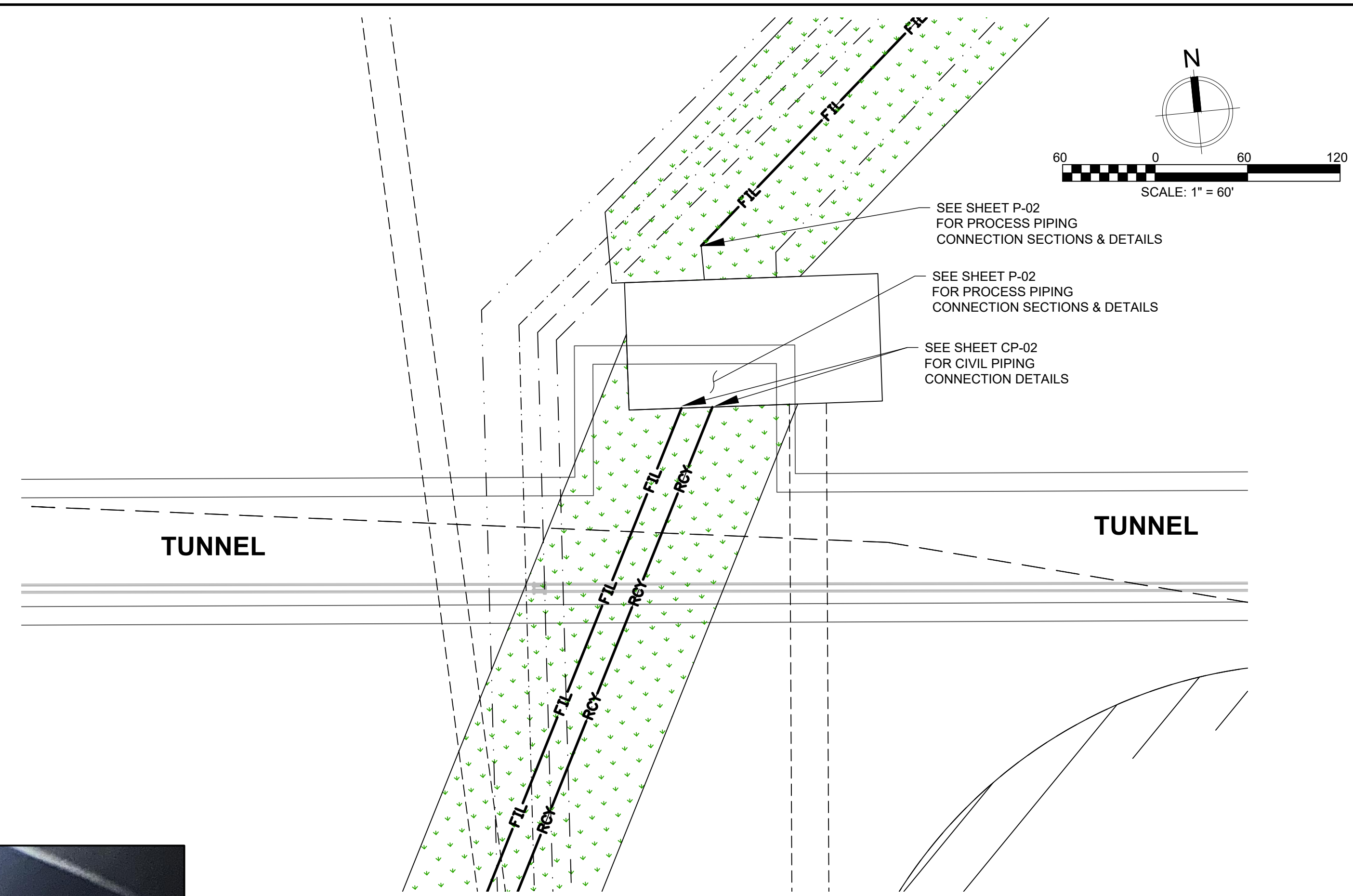
CITY OF ELYRIA, OHIO
 DEPARTMENT OF PUBLIC SERVICE
 WATER POLLUTION CONTROL PLANT
 IMPROVEMENTS

PRELIMINARY AND PRIMARY
 TREATMENT EXPANSION
 CONTRACT 4
 REVISIONS TO EXISTING
 DETRETUS TANK EFFLUENT CHANNEL
 PLAN

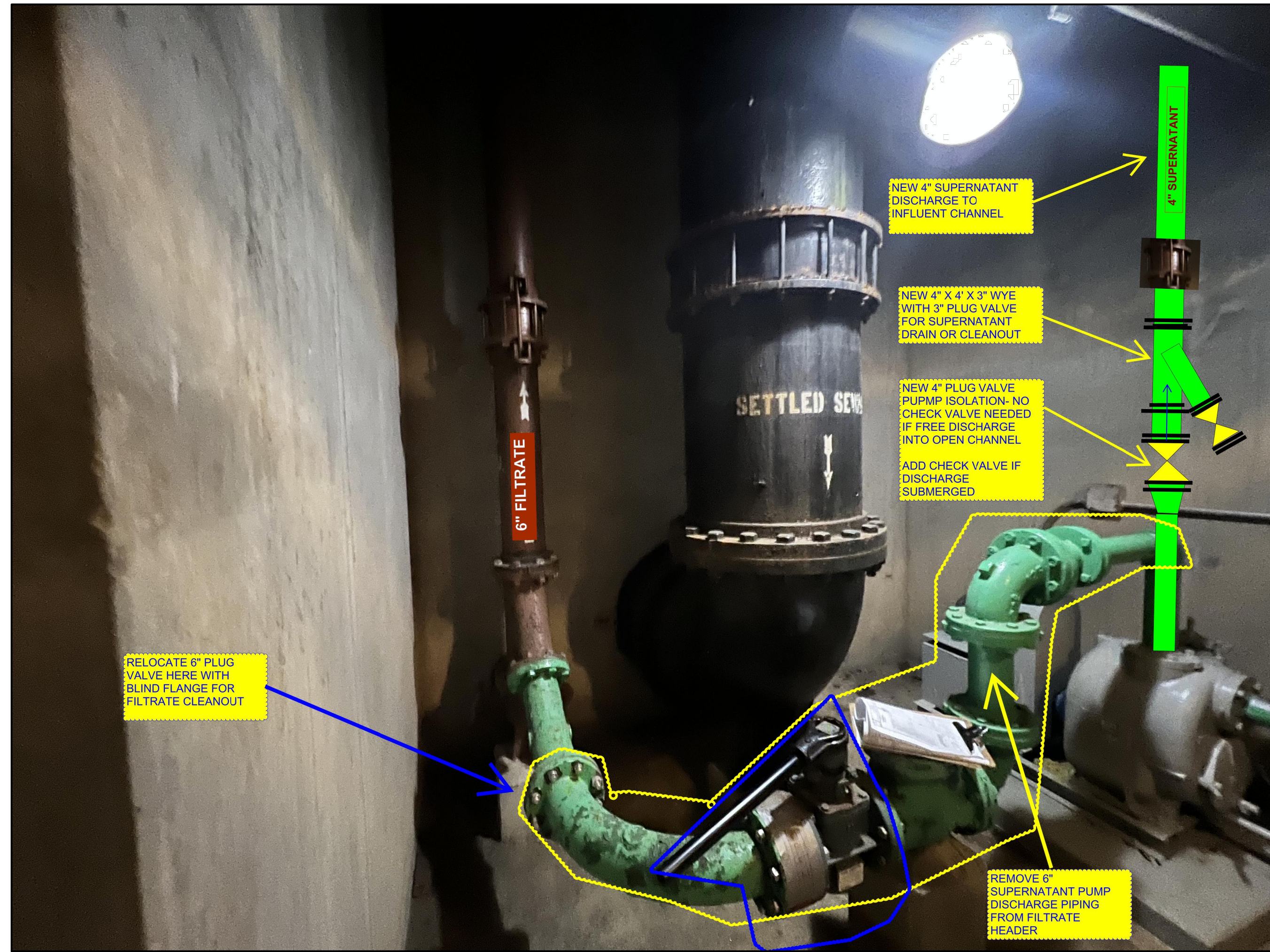
SCALE
1/4" = 1'-0"
 FILE NO.
1430-4.044
 SHEET NO.
P.04/36



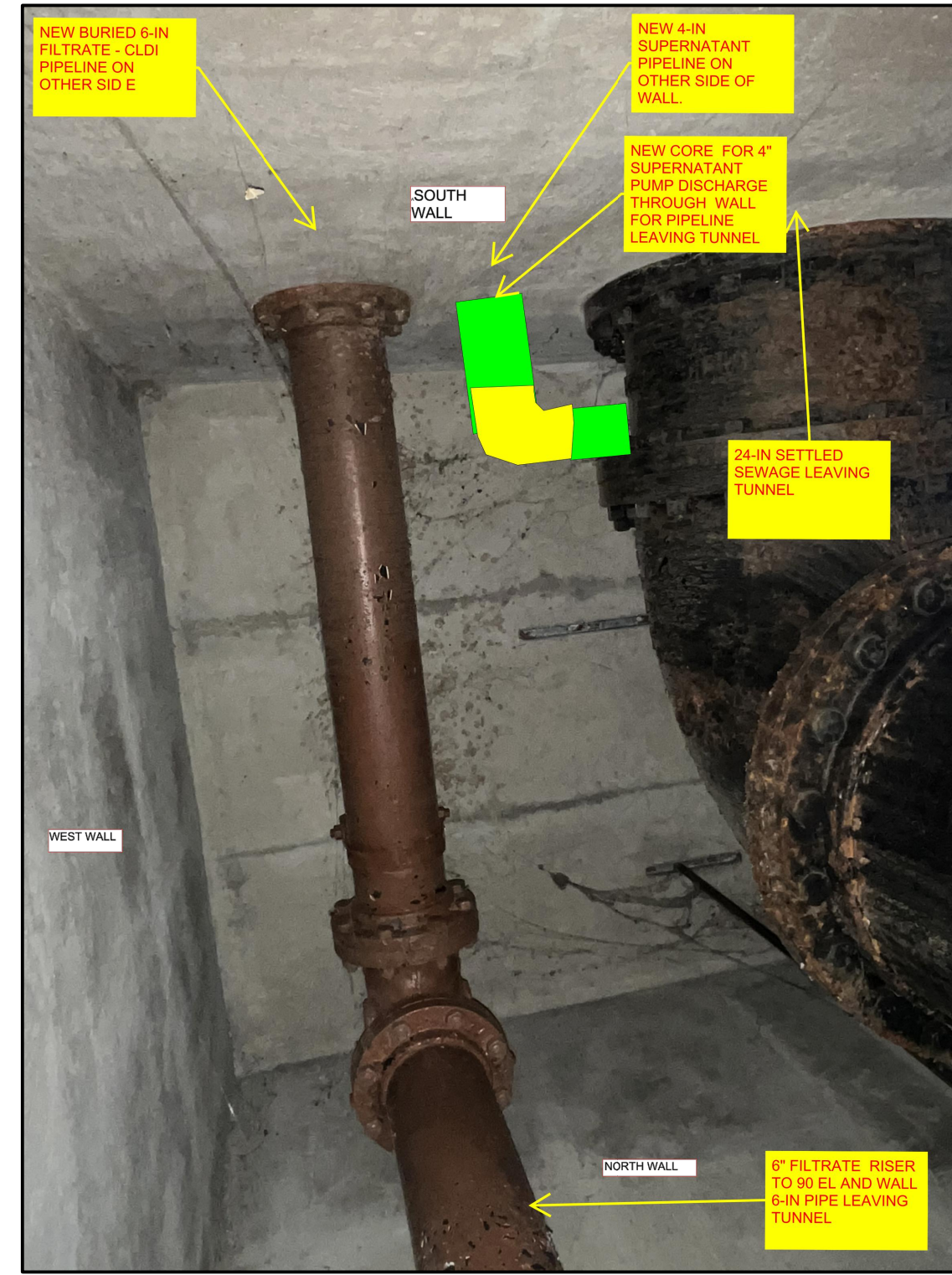
NEW SUPERNATANT PIPING PLAN
SCALE: 1/8" = 1' ON 11 X 17"



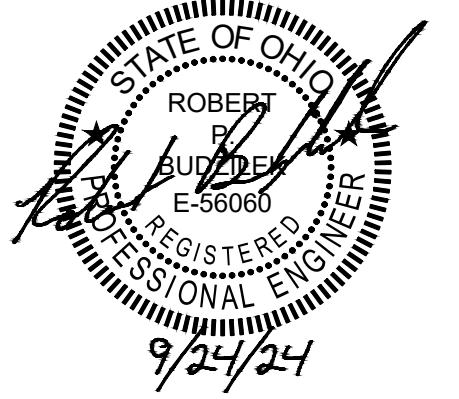
PROPOSED PIPING CONNECTION AT TUNNEL
SCALE: 1" = 60'



SUPERNATANT PIPING SEPARATION PLAN IN TUNNEL
N.T.S.



SUPERNATANT FILTRATE PIPING IN TUNNEL
N.T.S.

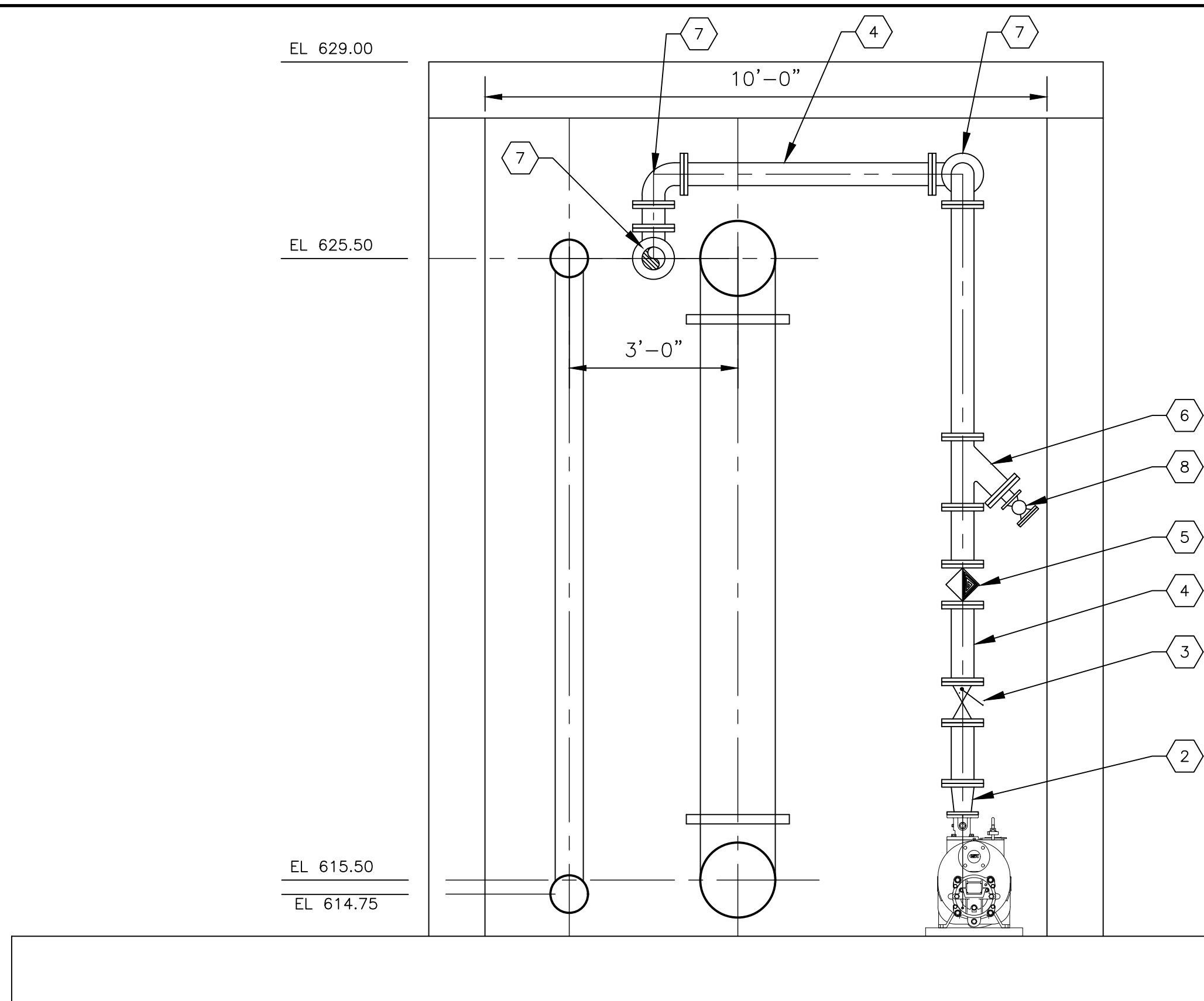


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60332065

PROCESS ENLARGED PIPING CONNECTION AT TUNNEL

P-01



- PLAN NOTES:**
- EXISTING SUPERNATANT PUMP - GORMAN RUPP T3A3S-B/F
 - 4" X 3" REDUCER
 - 4" FLG. SWING CHECK VALVE
 - 4" FLG. CLDI PIPE
 - 4" FLG. PLUG VALVE
 - 4" FLG. CLDI WYE
 - 4" FLG. CLDI 90° BEND
 - 2" FLG. BALL VALVE
 - CORE THROUGH 12" REINFORCED CONCRETE WALL (SEE MODULAR LINK SEAL DETAIL 1, SHEET 99-CP-01)
 - BURIED 4" SUPERNATANT MJ CLDI 45° BEND
 - 6" FILTRATE MJ CLDI 45° BEND
 - 6" FILTRATE MJ CLDI 45° BEND
 - DISCONNECT EXISTING SUPERNATANT PIPING BACK TO THIS FLANGE. USE FOR CLEANOUT OF 6" FILTRATE PIPING.



AECOM

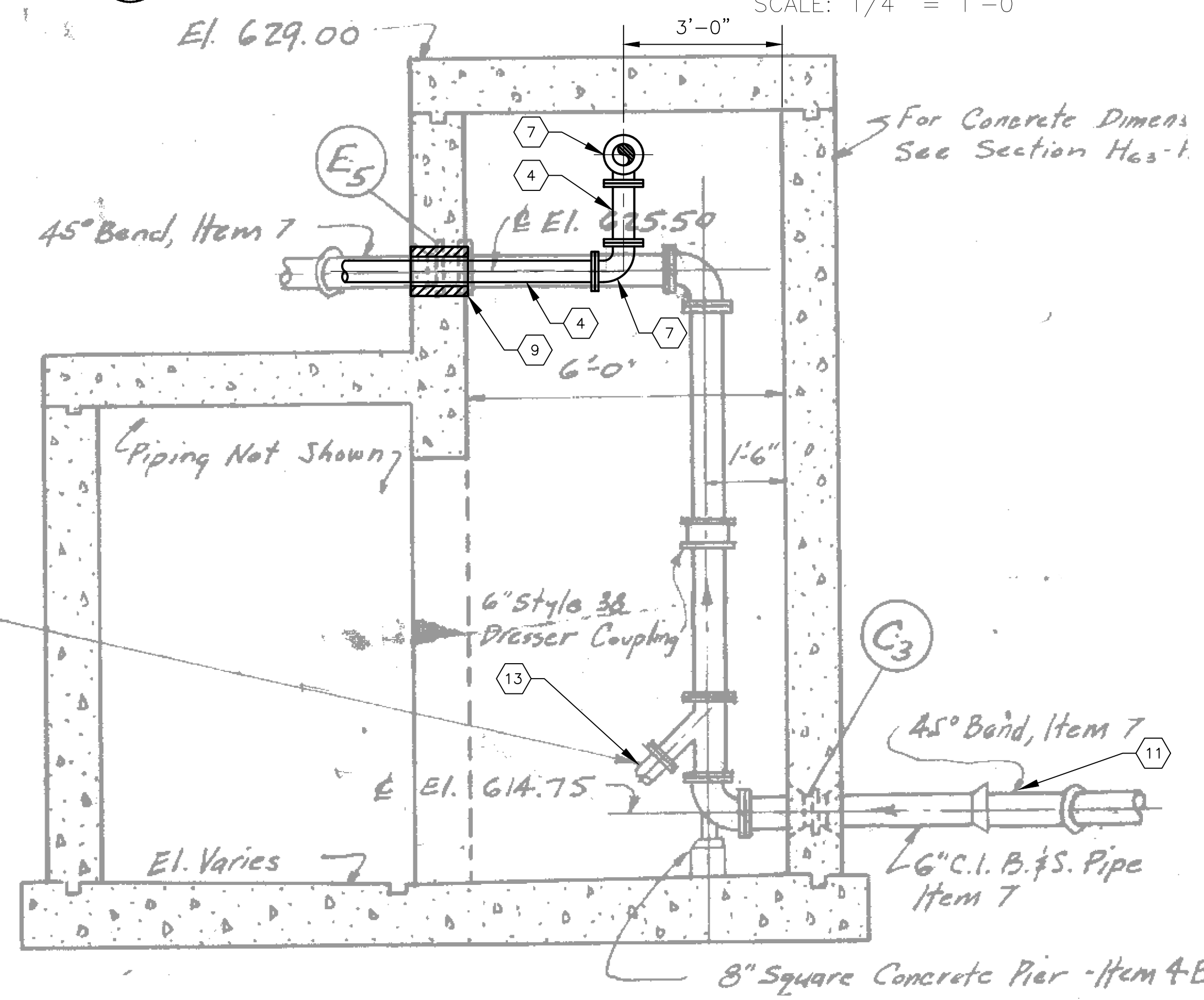
PROJECT
SLUDGE LINE REPLACEMENT

WASTEWATER POLLUTION CONTROL PLANT
 1194 GULF ROAD
 ELYRIA, OH

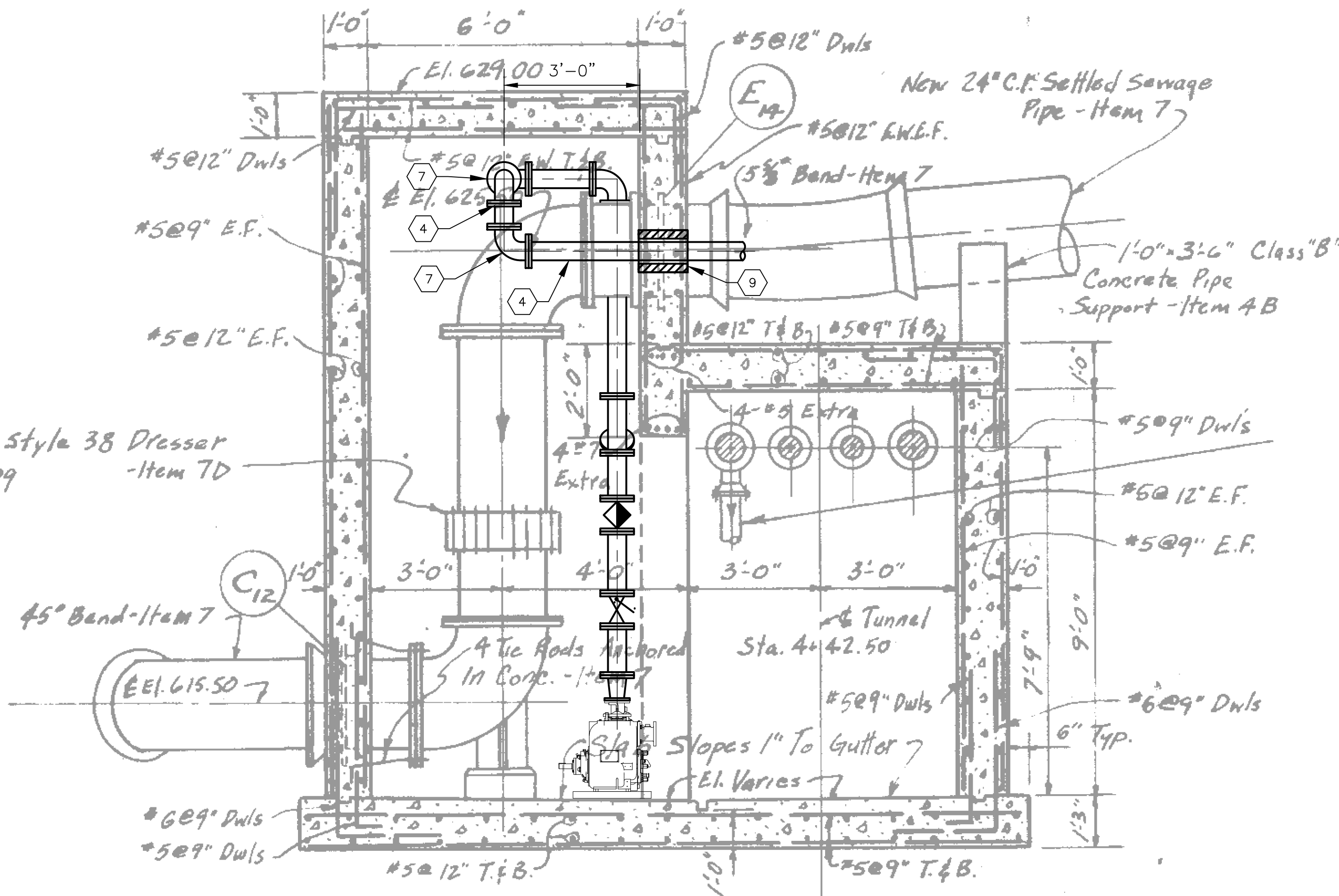
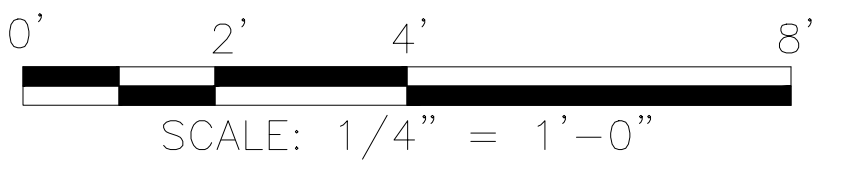
CLIENT
CITY OF ELYRIA
 DEPARTMENT OF PUBLIC SERVICE
 131 COURT STREET
 ELYRIA, OH

CONSULTANT
 AECOM
 1300 E. 9TH STREET, SUITE 500
 CLEVELAND, OH 44114
 216.622.23000 tel 216.622.2301 fax
 www.aecom.com

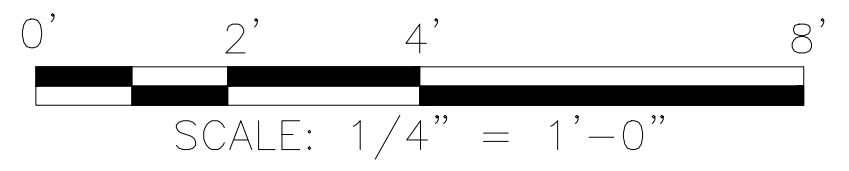
SECTION K-K
 SCALE: 1/4" = 1' ON 11 X 17



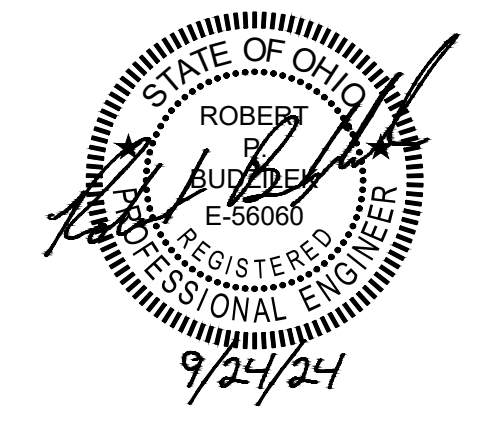
SECTION G-G
 SCALE: 1/4" = 1' ON 11 X 17



SECTION H-H
 SCALE: 1/4" = 1' ON 11 X 17



REGISTRATION



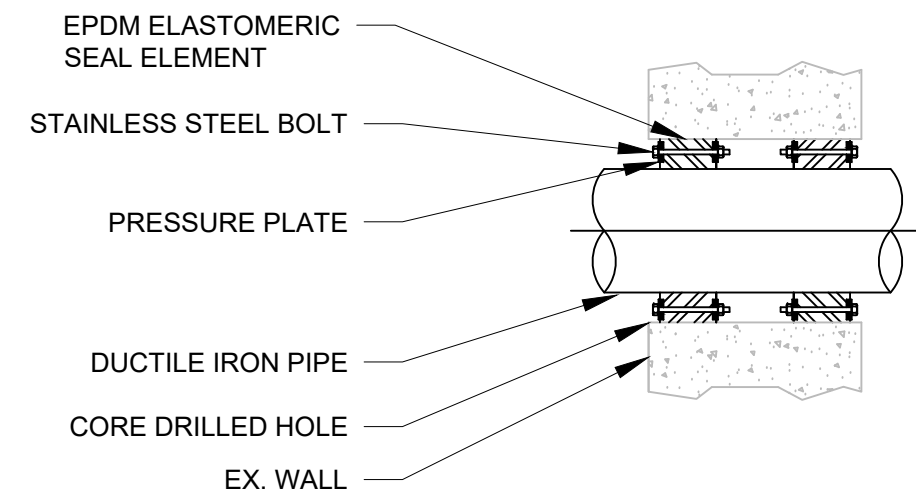
ISSUE/REVISION

A	09-24-2024	ISSUED FOR BID
I/R	DATE	DESCRIPTION

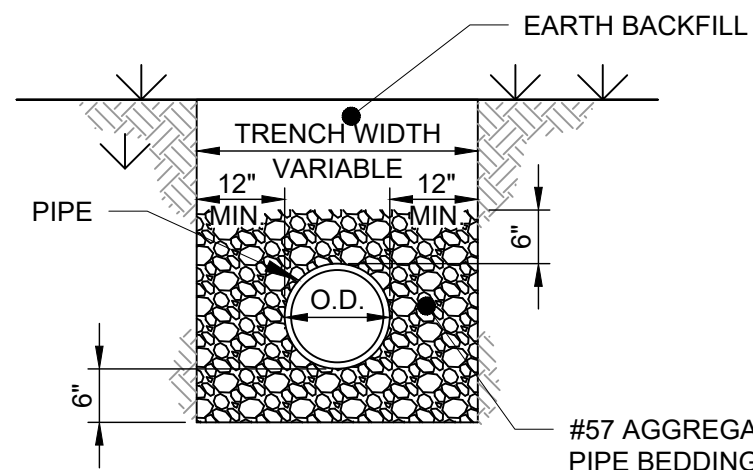
PROJECT NUMBER
 60332065

SHEET TITLE
 PROCESS PROPOSED OVERALL ENLARGED PIPING PLAN - NORTH

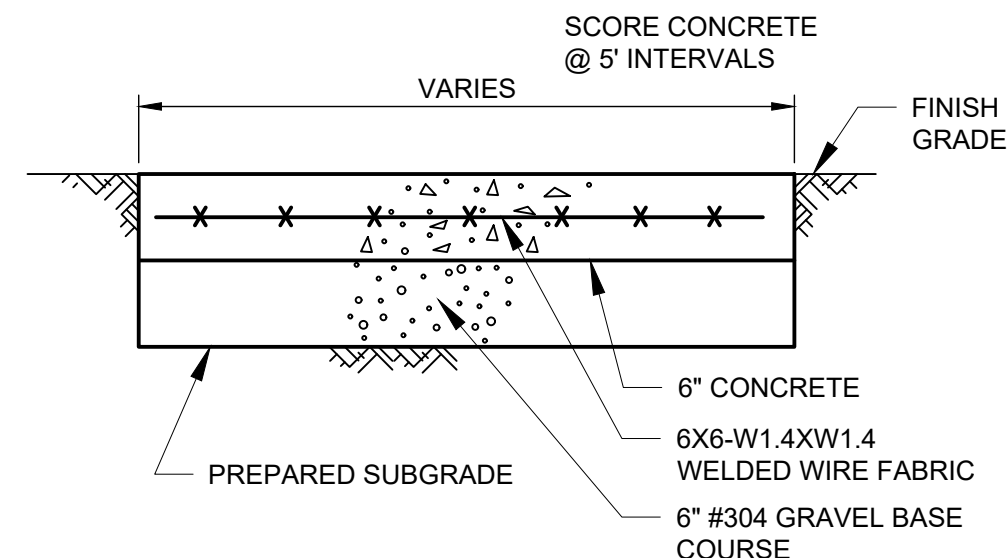
SHEET NUMBER
 P-02



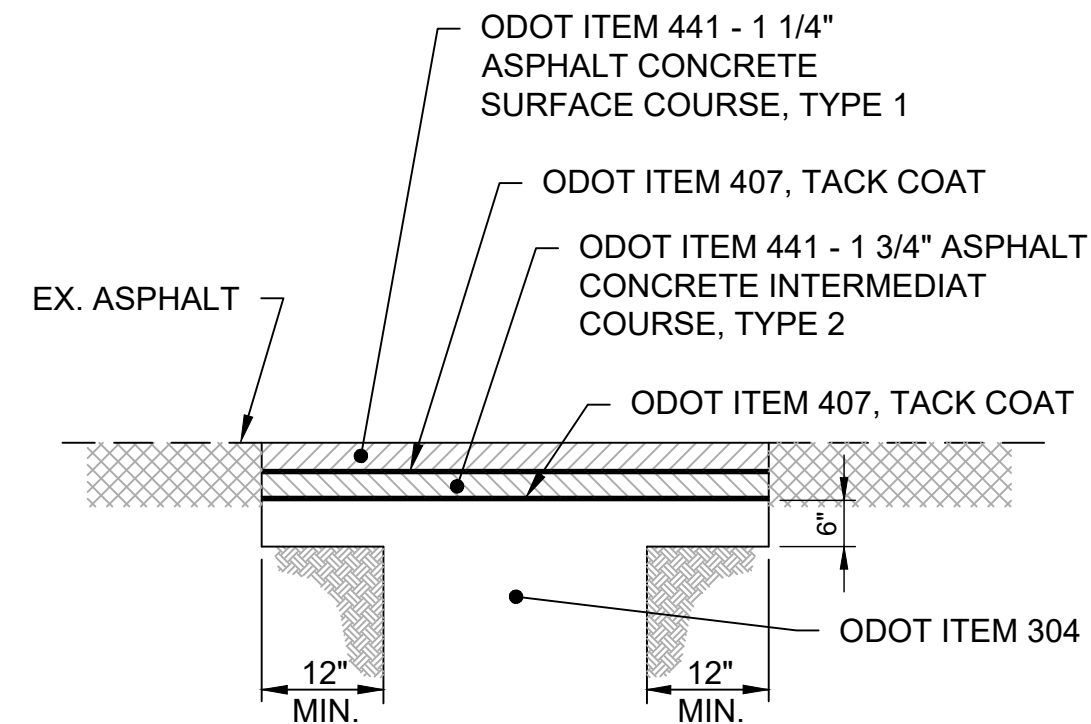
1 WALL MODULAR SEAL DETAIL
TYP Scale: NONE



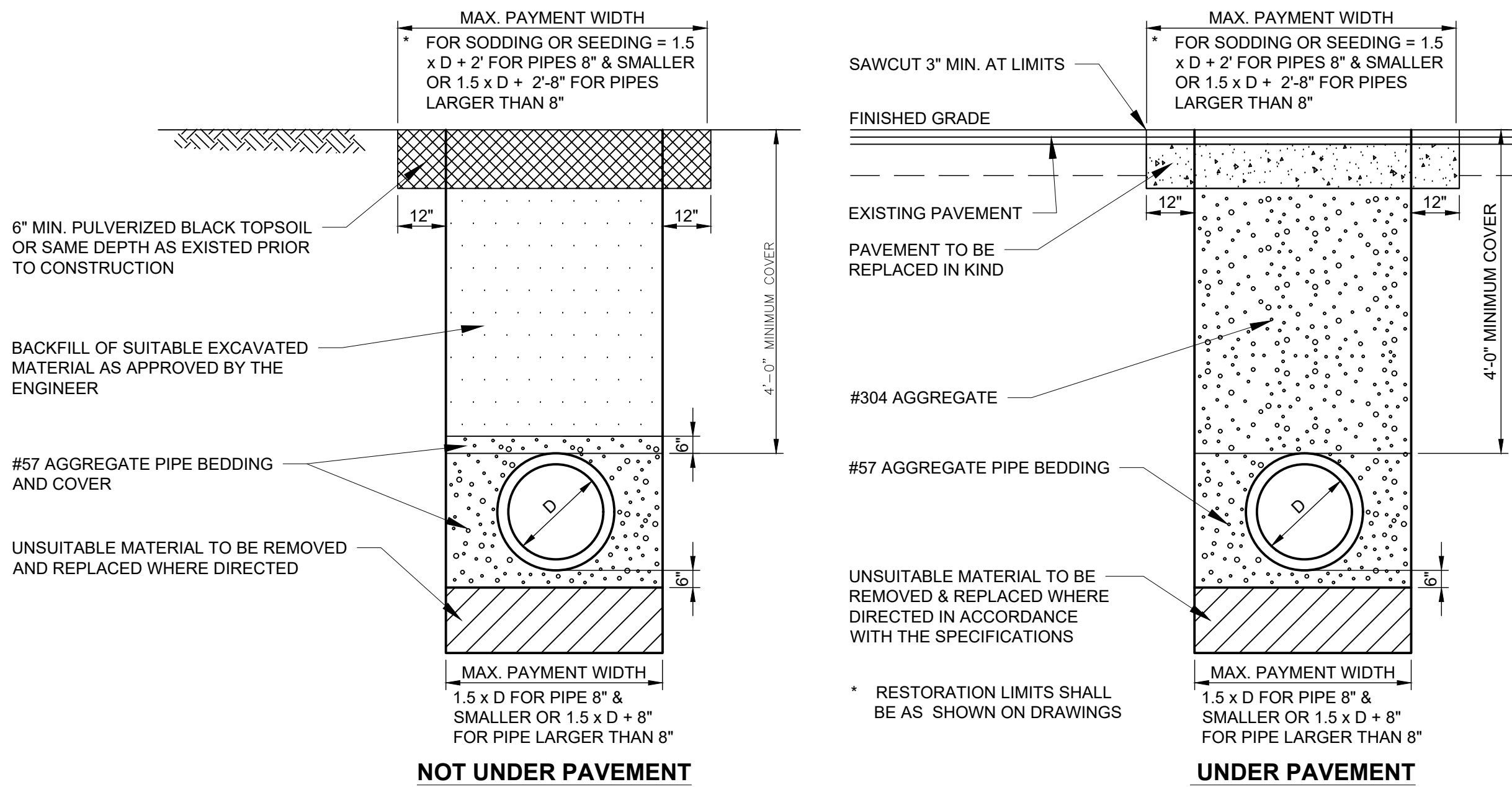
2 LAWN TRENCH DETAIL
TYP Scale: NONE



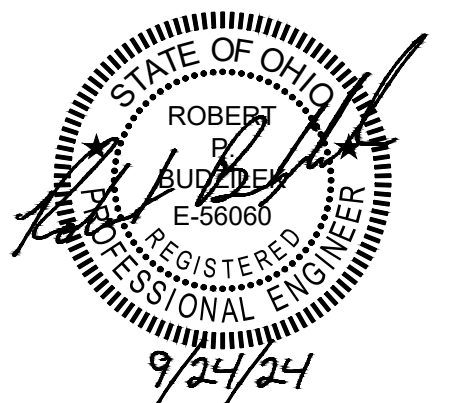
3 CONCRETE WALKWAY SECTION
TYP Scale: NONE



4 ASHPALT REPLACEMENT DETAIL
TYP Scale: NONE



5 TYPICAL TRENCH CROSS SECTION
TYP Scale: NONE



ISSUE/REVISION

NO.	DATE	DESCRIPTION
A	09-24-2024	ISSUED FOR BID
I/R	DATE	DESCRIPTION