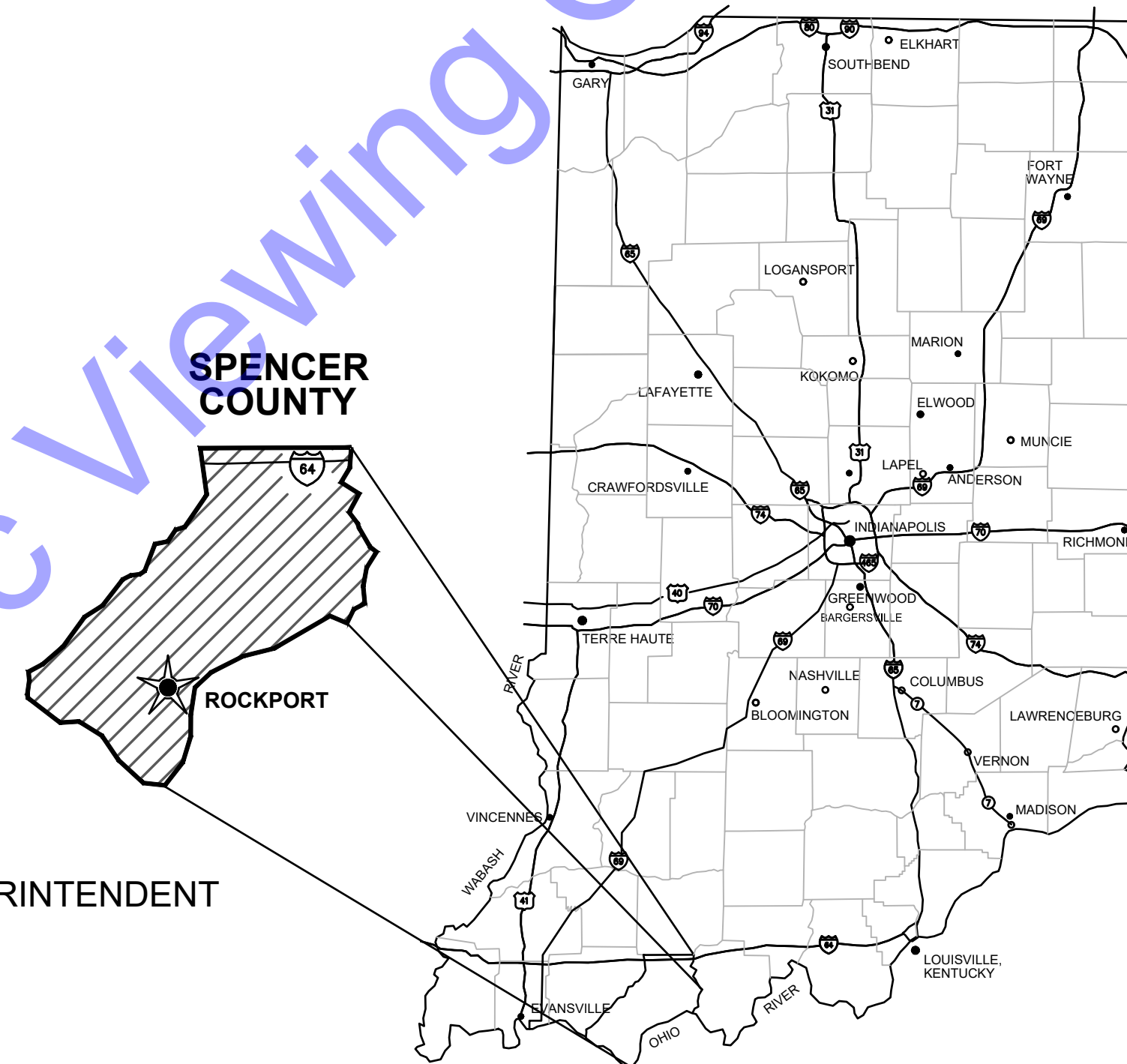


CITY OF ROCKPORT SPENCER COUNTY, INDIANA

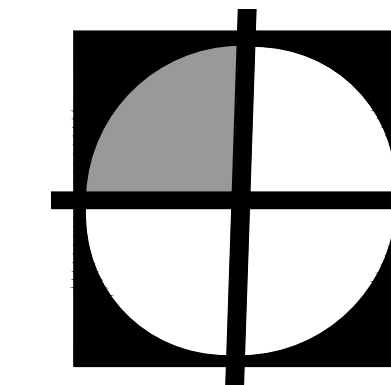
WASTEWATER LTCP PHASE 4 PROJECT DIVISION "A" - WASTEWATER TREATMENT PLANT JANUARY 2024

COMMON COUNCIL

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- JOE CARPENTER MEMBER
- TODD HAYS MEMBER
- DONNA LASHLEY MEMBER
- CONNIE HARGIS MEMBER
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- FERMAN YEARBY FORMER MEMBER
- ROCHELLE SENEFF CLERK-TREASURER
- SHERRY MORRIS WASTEWATER SUPERINTENDENT
- DUWAYNE JOHNSON WASTEWATER CONTRACTED SUPERINTENDENT
- TERRY DAVIS CITY CONTRACTOR
- BRYAN RUDISILL CITY ATTORNEY




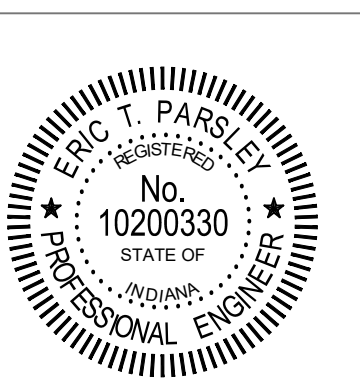
GENERAL LOCATION MAP



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QA/QC BY : CHRIS LIMCACO, P.E. _____ 01/24/24
DATE :

CERTIFIED BY :  _____ 01/24/24
ERIC T. PARSLEY
INDIANA P.E. No. 10200330
DATE :



CONTRACT NO. : S20107

FILE: Z:\ENR\IN CLIENTS\NR\ROCKPORT\021017 WASTE WATER LTCP PHASE 4B.CDW\A CURRENT FILES\DRAWINGS\DIVISION A - WWTP\02-GENERAL DRAWINGS.DWG
 Sheet: 44/204 4:35:47 PM 1/24/24 41/02/24 2:47:40 PM Current User: Dylan Nighi lastSavedBy: mram

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VICINITY MAP
 SCALE: 1"=1,500'-0"
 0 1,500' 3,000'



OFFICE LOCATIONS IN:
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 FORT WAYNE, IN
 CROWN POINT, IN
 BOWLING GREEN, KY
 SOUTH BEND, IN

Signature: *E.T. Parsley* Date: 01/24/24
 Registered Professional Engineer
 No. 102003330
 STATE OF INDIANA
 ERIC T. PARSLEY

**CITY OF ROCKPORT
 SPENCER COUNTY, INDIANA**
**WASTEWATER LTCP PHASE 4
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DIVISION "A" - WWTP

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Designed By: JE Drawn By: DAN Checked By: EP
 Issue Date: JAN. 2024 Project No: S20107 Scale: AS SHOWN

VICINITY MAP

Drawing No:
G3
 Sheet: 03 OF 177

FILE: Z:\SHARED\IN CLIENTS\NR\ROCKPORT\20240107 WASTE WATER LTCP PHASE 4B.CDW\CURRENT FILES\DRAWINGS\DIVISION A - WWTF02-GENERAL DRAWINGS.DWG
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PLAN VIEW
 SCALE: 1"=50'-0"
 0 50 100'

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CONTROL POINT INFORMATION			
IDENTIFIER	NORTHING	EASTING	DESCRIPTION
CP-1	968882.00	2960802.35	CAPPED REBAR
CP-2	969247.47	2960816.84	CAPPED REBAR
CP-3	969038.43	2960744.93	CAPPED REBAR
CP-4	969103.90	2960919.25	CAPPED REBAR
CP-5	969099.75	2961022.56	CAPPED REBAR

TEMPORARY BENCHMARK INFORMATION		
IDENTIFIER	ELEVATION	DESCRIPTION
TBM-100	387.04	CUT SQUARE ON THE SOUTH EAST CORNER FILL STATION BASE
TBM-101	392.90	CUT SQUARE ON THE NORTH WEST CORNER OF CONCRETE TOWER STEM BASE

Project coordinates are based on the following:
HORIZONTAL- US State plane coordinates: NAD83 (*North American Datum*) Indiana West Zone (1302)
VERTICAL- USGS 1988 NAVD (North American Vertical Datum)-per GPS observations (Not verified by physical location of published USGS monuments)

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ERIC T. PARSLEY
 No. 102003330
 STATE OF INDIANA
 PROFESSIONAL ENGINEER

[Signature]
 Signature Date 01/24/24

**CITY OF ROCKPORT
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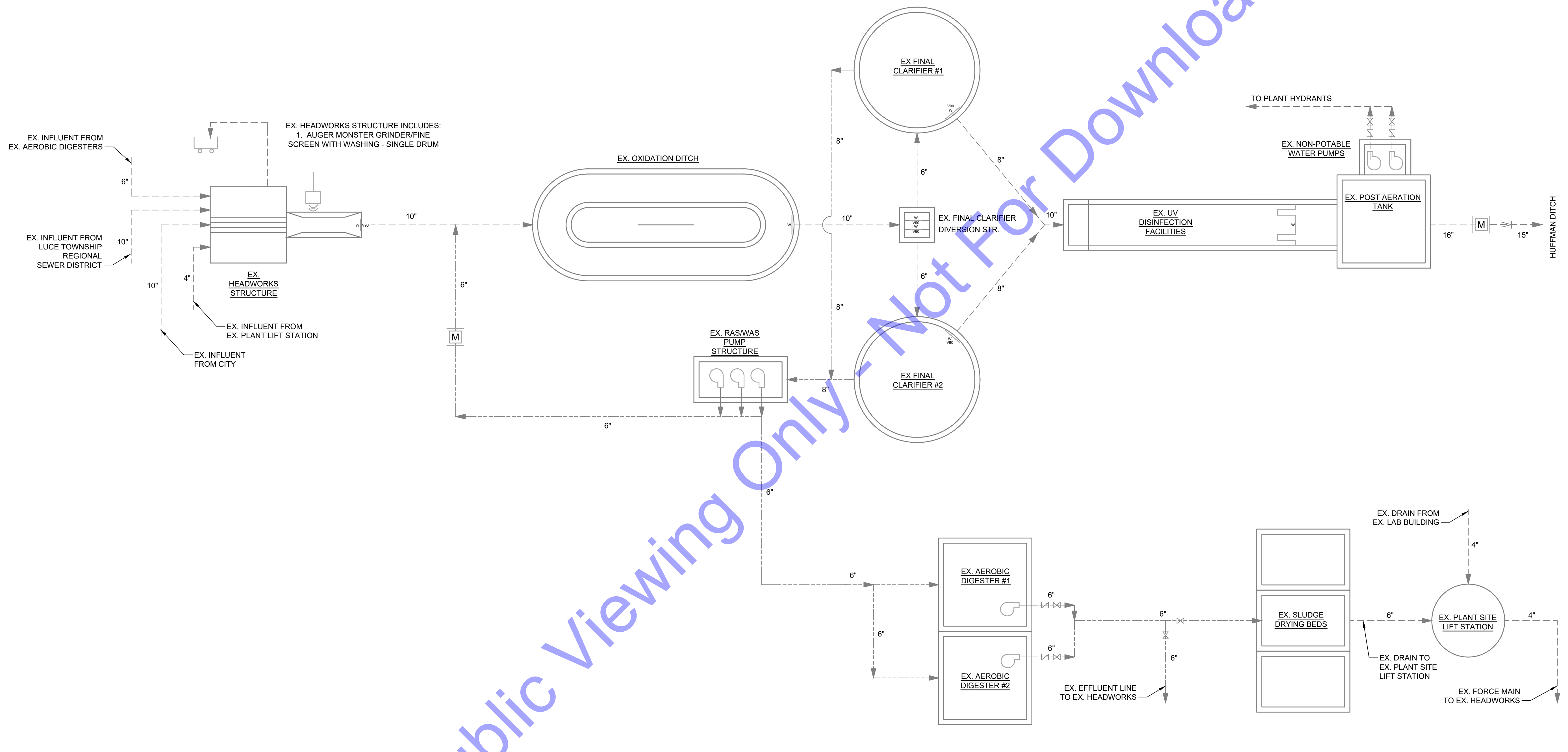
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**SURVEY DATA
 INFORMATION**

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Sheet: 48 of 204 5:02:28 PM Pooled: 4/12/2024 2:47:45 PM Current User: dhananaghi.Lakshminarayana



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FLOW SCHEMATIC
NOT TO SCALE

- LEGEND:**
- - - - - EX. PROCESS LINE
- - - - - EX. SLUDGE LINE

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Professional Engineer Seal:
ERIC T. PARSLEY, REGISTERED
No. 102003330
STATE OF INDIANA
Professional Engineer
Signature: *Eric T. Parsley*
Date: 01/24/24

**CITY OF ROCKPORT
SPENCER COUNTY, INDIANA
WASTEWATER LTCP PHASE 4
PROJECT
DIVISION "A" - WWTP**

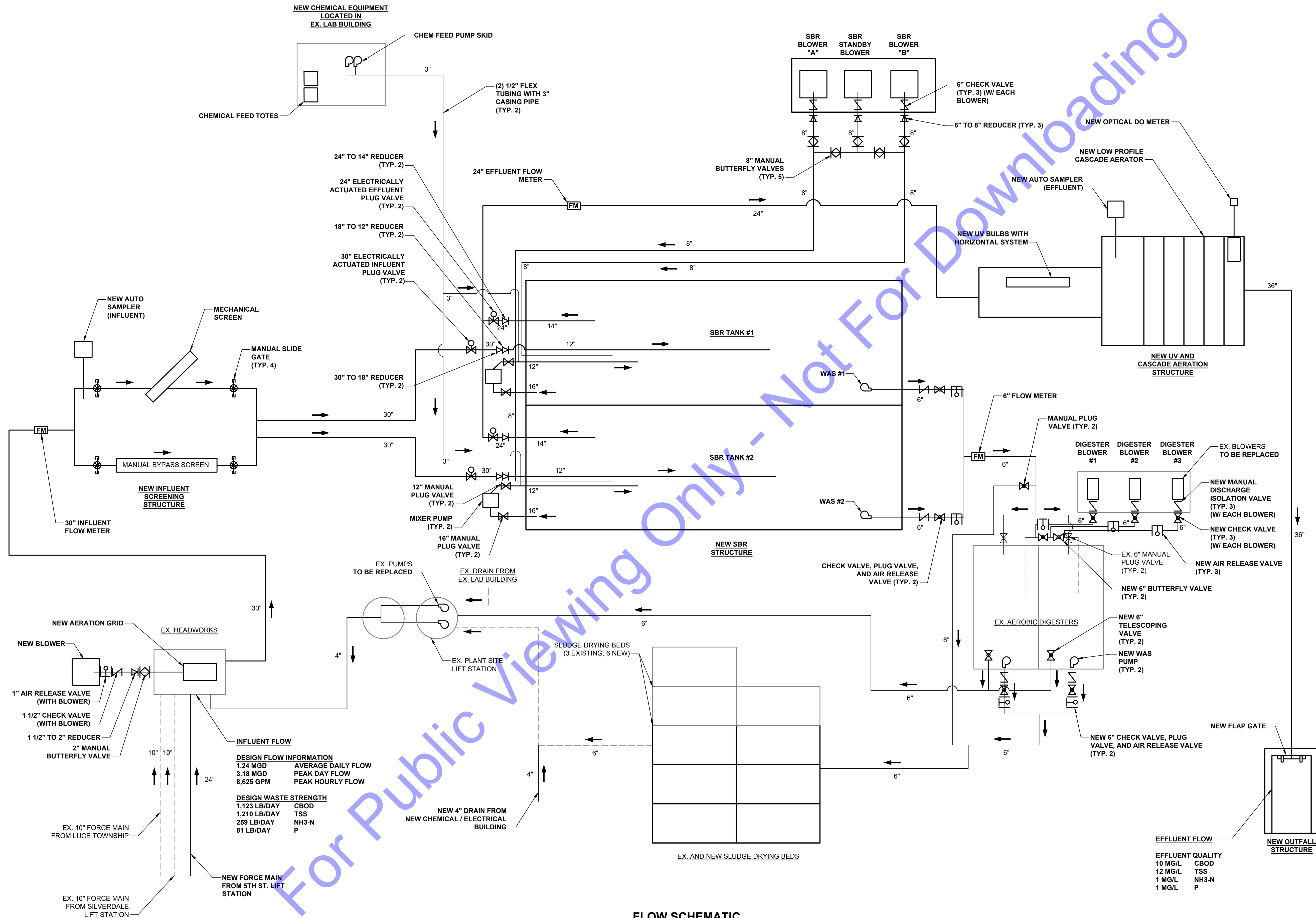
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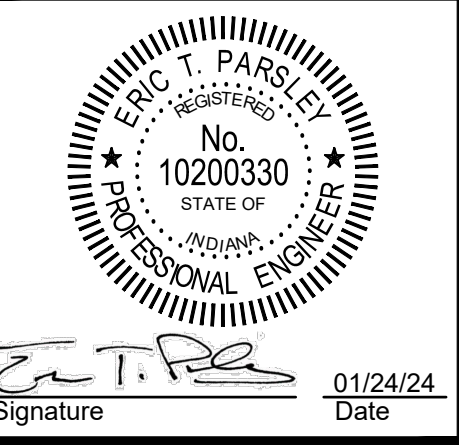
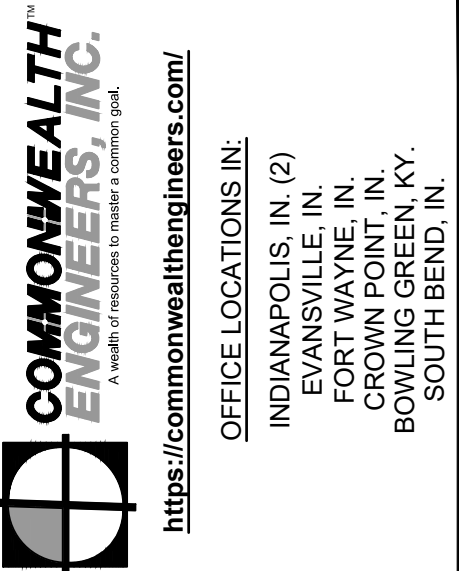
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Issue Date: JAN. 2024
Project No: S20107
Scale: AS SHOWN

**EXISTING PROCESS
FLOW SCHEMATIC**

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FLOW SCHEMATIC
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**CITY OF ROCKPORT
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**WASTEWATER LTCP PHASE 4
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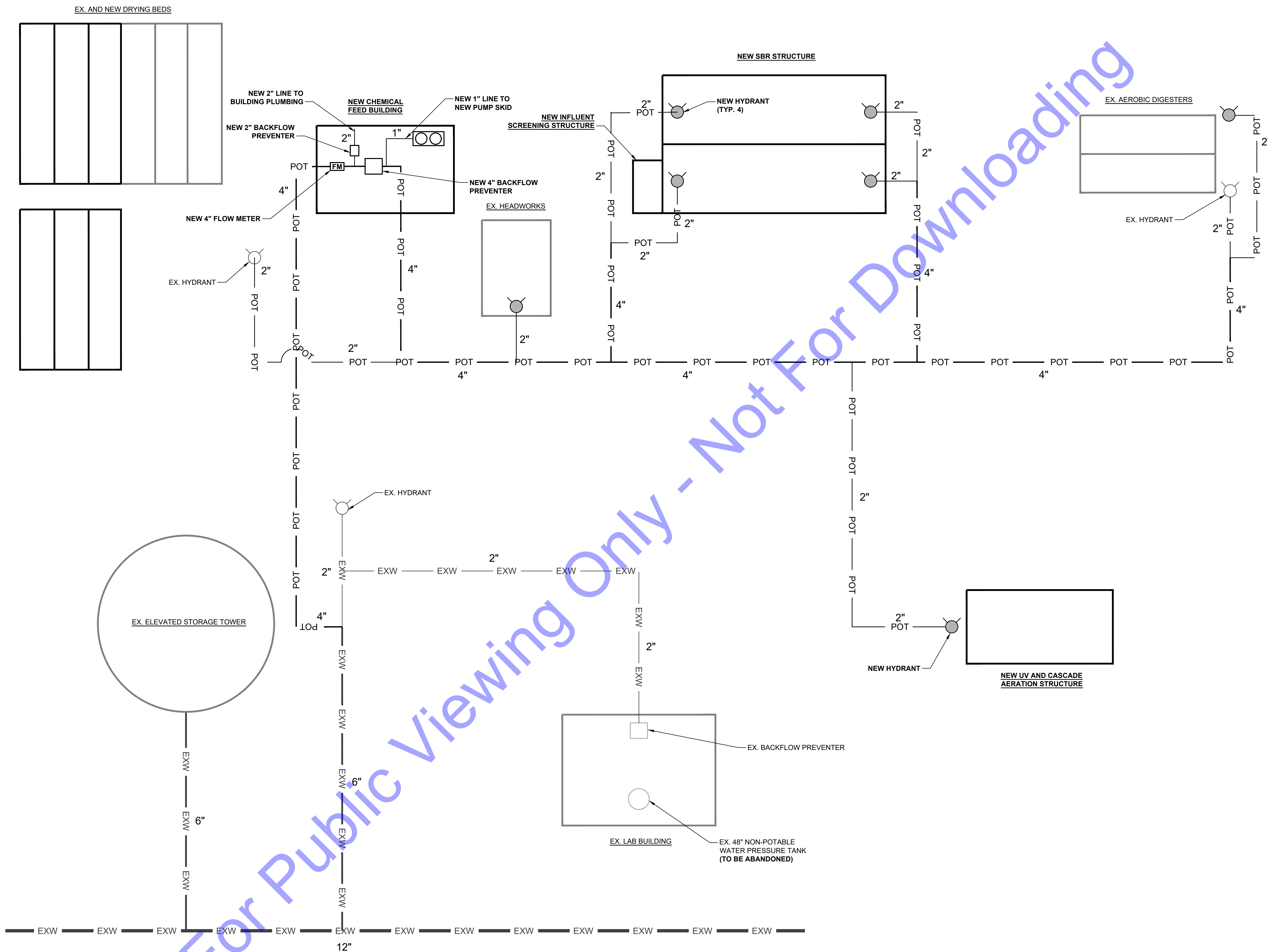
No.	Submittal / Revision

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 Drawn By: DAN
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Issue Date: JAN. 2024
 Project No: S20107
 Scale: AS SHOWN

NEW PROCESS FLOW SCHEMATIC

Drawing No:
G7
 Sheet: 07 OF 177



FLOW SCHEMATIC
NOT TO SCALE

File: Z:\SHARED\CLIENTS\2\ROCKPORT\2017 WASTE WATER LTCP PHASE 4\8. CDDA CURRENT FILES\DRAWINGS\DIVISION A - WWTP\3-FLOW SCHEMATIC.DWG
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Professional Engineer
 No. 10200330
 STATE OF INDIANA
REGISTERED

[Signature]
 Signature Date 01/24/24

**CITY OF ROCKPORT
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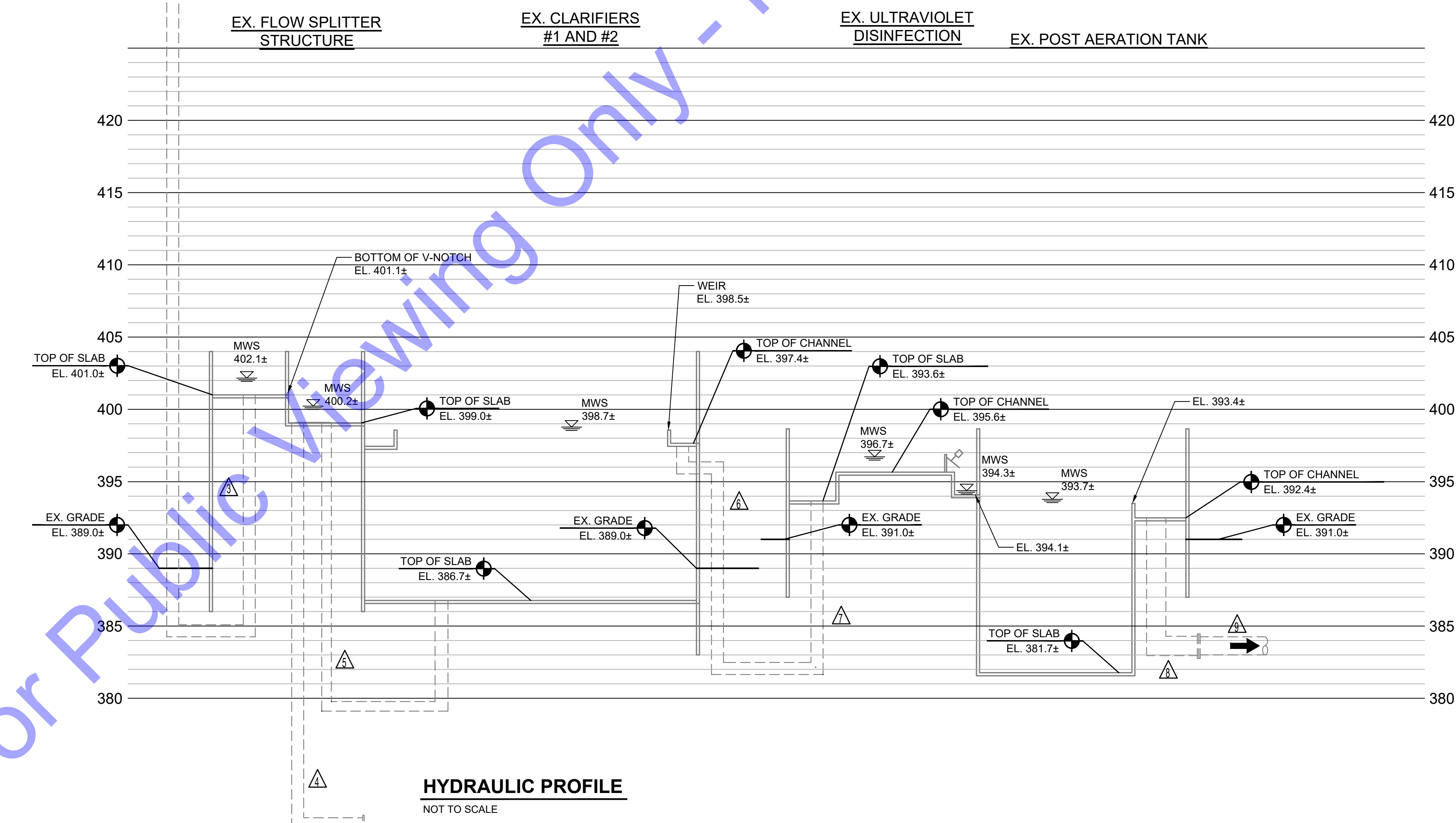
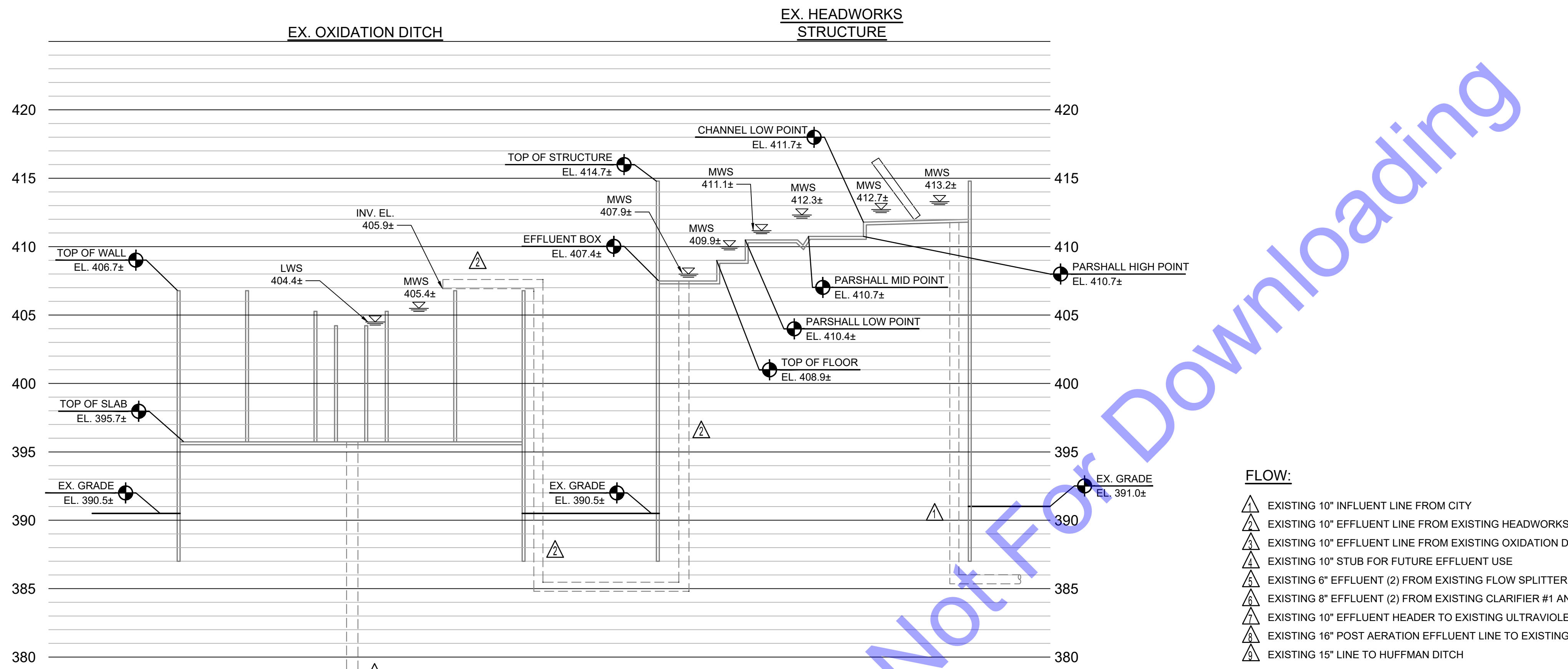
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Issue Date: JAN. 2024	Project No: S20107	Scale: AS SHOWN

NEW WATER FLOW SCHEMATIC

Drawing No:
G8
 Sheet: 08 OF 177



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**WASTEWATER LTCP PHASE 4
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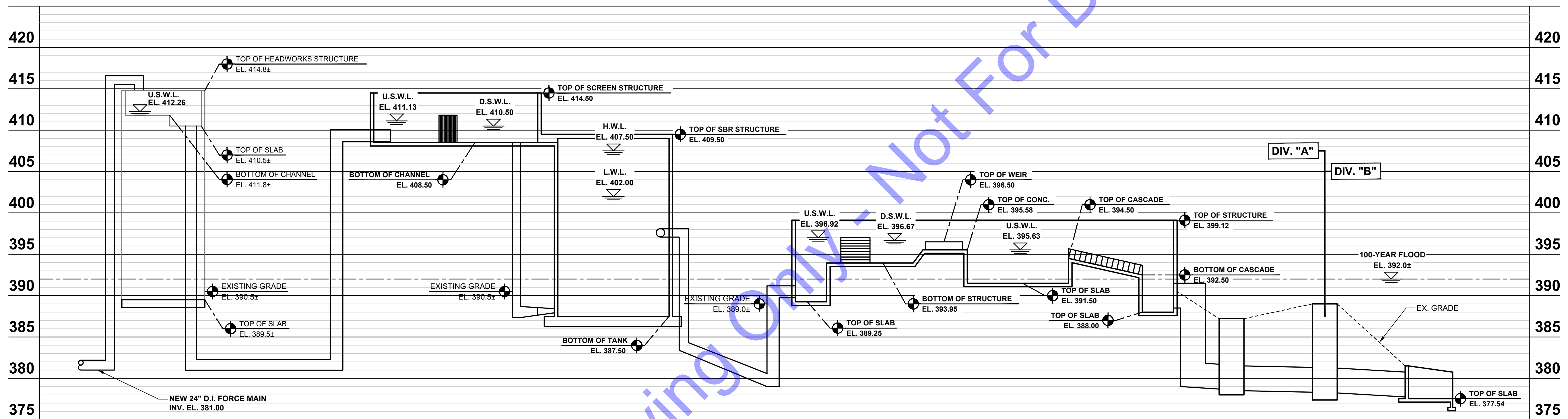
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EXISTING HYDRAULIC PROFILE

Drawing No:
G9

Sheet: 09 OF 177

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EX. HEADWORKS
STRUCTURE

EX. 10" D.I. FORCE MAIN
INV. EL. 384.5±
(HIDDEN FOR CLARITY)

EX. 10" D.I. FORCE MAIN
INV. EL. 384.5±
(HIDDEN FOR CLARITY)

NEW SCREEN

NEW SBR TANKS

NEW UV/CASCADE
AERATION

NEW MH
NO 102

NEW MH
NO 103

NEW OUTFALL
STRUCTURE

HYDRAULIC PROFILE

NOT TO SCALE

FLOOD ELEVATIONS:

- EL. 395.00' = 500-YEAR FLOOD
- EL. 392.00' = 100-YEAR FLOOD
- EL. 391.00' = 50-YEAR FLOOD
- EL. 389.00' = 25-YEAR FLOOD
- EL. 387.00' = 10-YEAR FLOOD
- EL. 373.00' = OHIO RIVER - ORDINARY HIGH WATER MARK
- EL. 358.00' = OHIO RIVER - NORMAL POOL ELEVATION

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ERIC T. PARSLEY
 REGISTERED PROFESSIONAL ENGINEER
 No. 102003330
 STATE OF INDIANA
 Signature: *E.T. Parsley* Date: 01/24/24

**CITY OF ROCKPORT
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 WASTEWATER LTCP PHASE 4
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 DIVISION "A" - WWTP**

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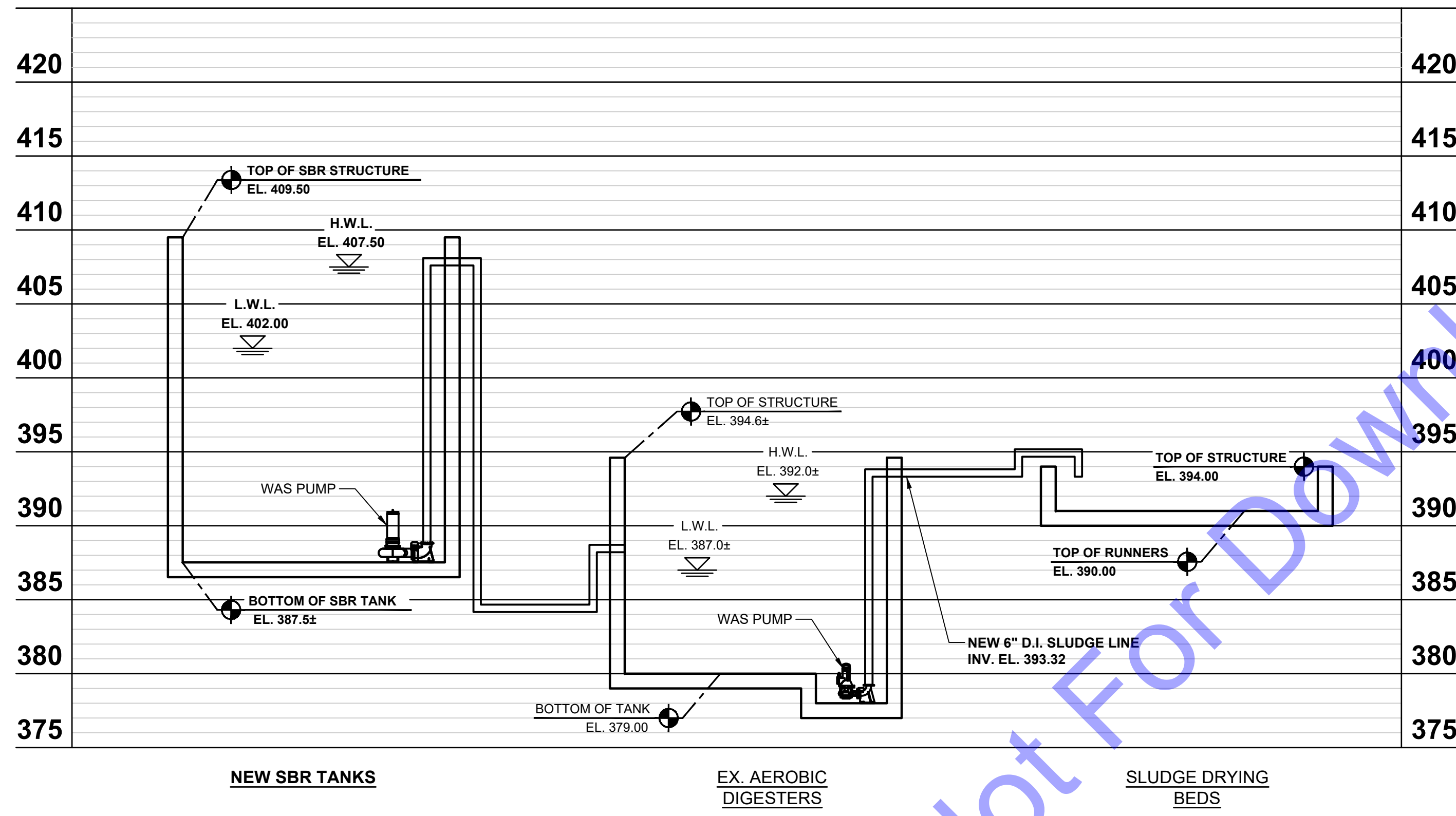
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Designed By:	Drawn By:	Checked By:
JE	DAN	EP

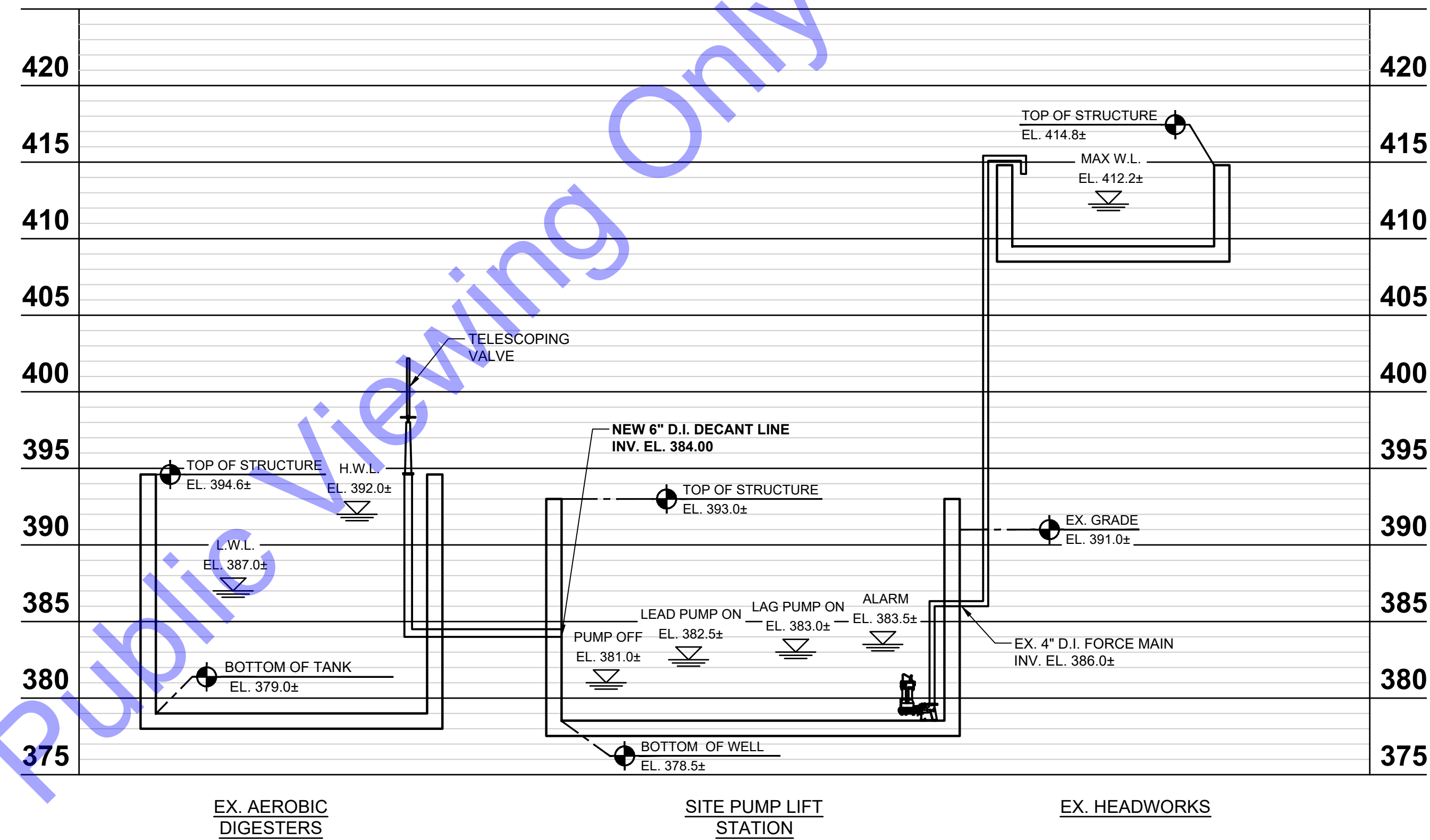
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JAN. 2024	S20107	AS SHOWN

NEW HYDRAULIC PROFILE

Drawing No:
G10
 Sheet: 10 OF 177



SLUDGE HYDRAULIC PROFILE
NOT TO SCALE



DECANT HYDRAULIC PROFILE
NOT TO SCALE

FLOOD ELEVATIONS:

- EL. 395.00' = 500-YEAR FLOOD
- EL. 392.00' = 100-YEAR FLOOD
- EL. 391.00' = 50-YEAR FLOOD
- EL. 389.00' = 25-YEAR FLOOD
- EL. 387.00' = 10-YEAR FLOOD
- EL. 373.00' = OHIO RIVER - ORDINARY HIGH WATER MARK
- EL. 358.00' = OHIO RIVER - NORMAL POOL ELEVATION

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Professional Engineer Seal: ERIC T. PARS ET AL., No. 102003330, STATE OF INDIANA, PROFESSIONAL ENGINEER.

Signature: [Signature] Date: 01/24/24

CITY OF ROCKPORT
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Issue Date: JAN. 2024	Project No: S20107	Scale: AS SHOWN
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NEW SLUDGE AND DECANT HYDRAULIC PROFILES

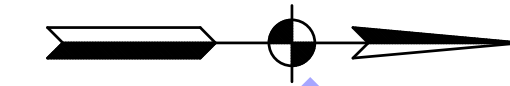
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Sheet: 11 OF 177

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 Sheet: 48 of 204 1:32, 8/17 PM Printed: 4/10/2024 2:49:35 PM Current User: Brian Nighi User: brian.nighi@commonwealthengineers.com



SITE PLAN
 SCALE: 1"=30'-0"
 0 30' 60'



EXISTING BUILDING LEGEND	
IDENTIFIER	DESCRIPTION
A	EXISTING HEADWORKS
B	EXISTING OXIDATION DITCH
C	EXISTING FLOW SPLITTER STRUCTURE
D	EXISTING FINAL CLARIFIER NO. 1
E	EXISTING FINAL CLARIFIER NO. 2
F	EXISTING UV AND POST AERATION STRUCTURE
G	EXISTING AEROBIC DIGESTER
H	EXISTING DRYING BEDS
I	EXISTING SLUDGE DRYING PAD
J	EXISTING PLANT SITE LIFT STATION
K	EXISTING LAB AND GARAGE
L	EXISTING ELEVATED STORAGE TOWER
M	EXISTING GENERATOR

LEGEND:

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Professional Engineer Seal for E. T. Parsi, No. 102003330, State of Indiana.
 Signature: *E. T. Parsi* Date: 01/24/24

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**EXISTING WWTP
 OVERALL SITE PLAN
 AND PHOTO LOG INDEX**

Drawing No: **C01**
 Sheet: 12 OF 177

FILE Z:\SHARED\CLIENTS\ROCKPORT\DESIGN\WASTEWATER LTCP PHASE 4B\CUDA\CURRENT FILES\DRAWINGS\DIVISION A - WWTP\04-EX-SITE PLAN.DWG
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PHOTO #1



PHOTO #2



PHOTO #3



PHOTO #4



PHOTO #5



PHOTO #6

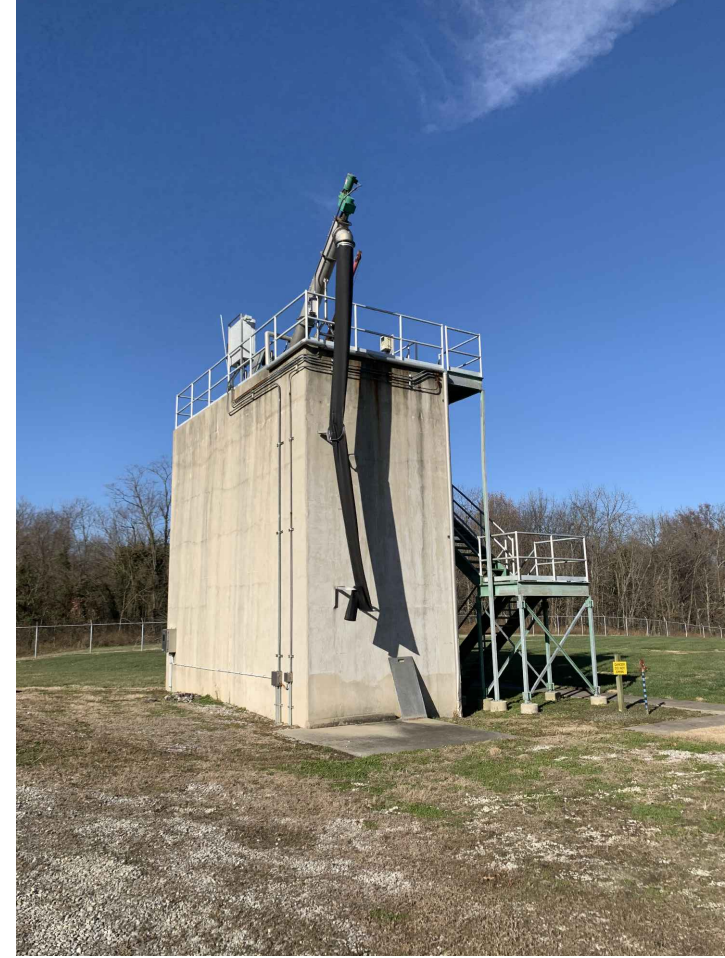


PHOTO #7



PHOTO #8



PHOTO #9



PHOTO #10



PHOTO #11



PHOTO #12



PHOTO #13



PHOTO #14



PHOTO #15



PHOTO #16



PHOTO #17



PHOTO #18



PHOTO #19



PHOTO #20

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Professional Seal: E.R.C.T. PARIS, ET
 Registered Professional Engineer
 No. 102003330
 STATE OF INDIANA
 Signature: *[Handwritten Signature]*
 Date: 01/24/24

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 SPENCER COUNTY, INDIANA
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 DIVISION "A" - WWTP**

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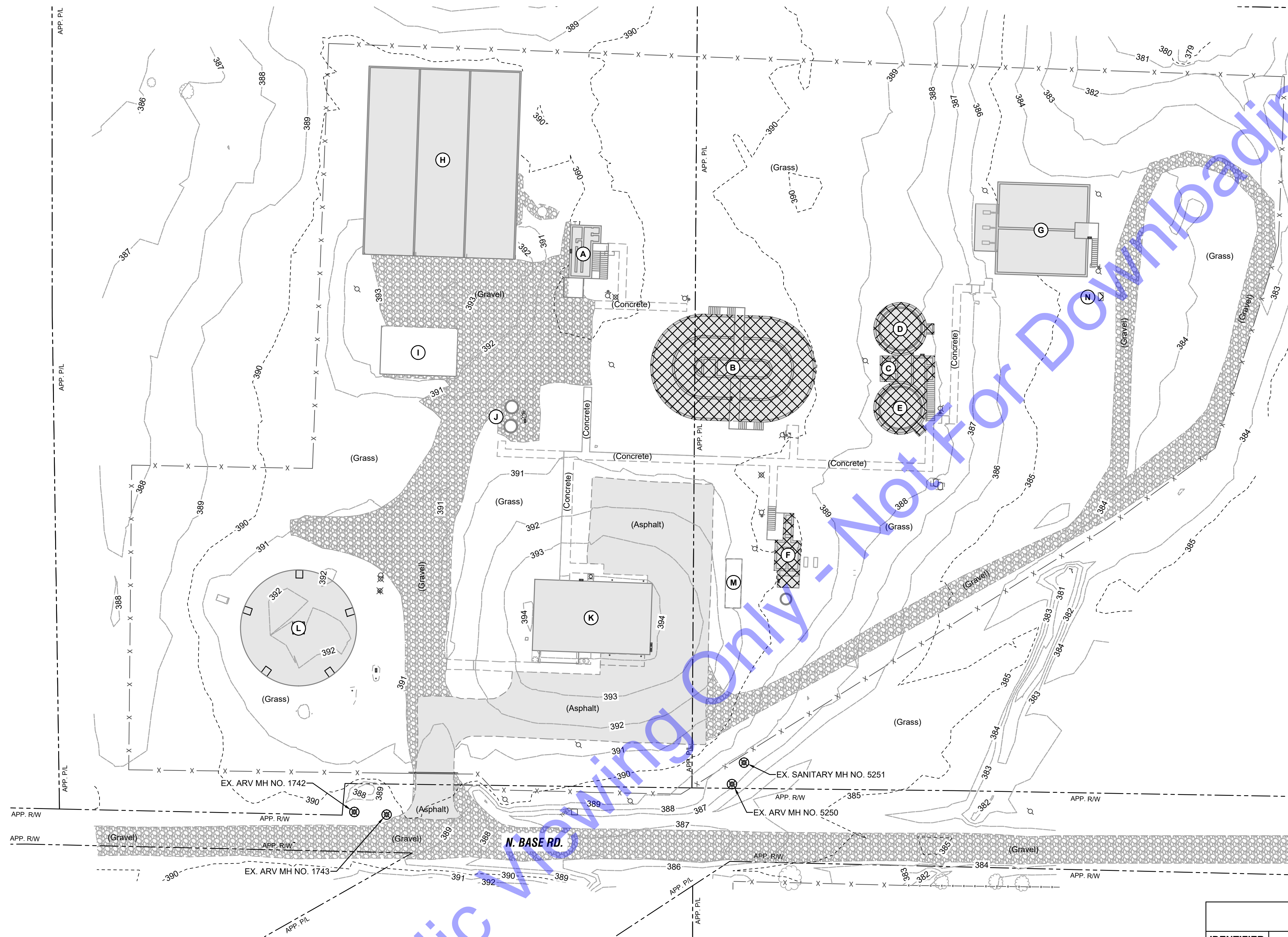
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 Drawn By: DAN
 Checked By: EP
 Issue Date: JAN. 2024
 Project No: S20107
 Scale: AS SHOWN

PHOTO LOG

No.		
Date		
By		
No.		
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Drawing No: **C02**
 Sheet: 13 OF 177

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SITE PLAN

SCALE: 1"=30'-0"
 0 30 60

NOTES:

- UNLESS OTHERWISE NOTED, CONTRACTOR SHALL PLUG, SEAL WATERTIGHT, AND ABANDON IN PLACE ALL EXISTING SITE PIPING AT ALL STRUCTURES THAT ARE SHOWN TO BE DEMOLISHED AND REMOVED ONCE NEW PLANT IS OPERATIONAL.
- EXISTING INFORMATION OBTAINED FROM 2000 "COMMONWEALTH ENGINEERS INC. - NORTH WASTEWATER TREATMENT PLANT AND COLLECTIONS SYSTEM IMPROVEMENTS" AS BUILTS. SITE SURVEY, AND FIELD INVESTIGATIVE WORK PERFORMED BY COMMONWEALTH ENGINEERS INC.
- ITEMS TO BE DEMOLISHED, REMOVED AND LAWFULLY DISPOSED OF COMPLETE TO ACCOMMODATE IMPROVEMENTS (THIS IS NOT INTENDED TO BE ALL INCLUSIVE, MERELY A REFERENCE). CONTRACTOR SHALL PERFORM ANY/ALL DEMOLITION, REMOVAL AND DISPOSAL ACTIVITIES AS REQUIRED FOR COMPLETE AND OPERATIONAL FACILITIES/INSTALLATIONS. REQUIRED DEMOLITION FOR SMALL DIAMETER PIPING, CONDUIT, ETC. NOT SHOWN IN THIS SHEET FOR CLARITY. EXISTING STRUCTURES ARE TO BE DEMOLISHED IN ACCORDANCE WITH DEMOLITION AND MANDATORY ALTERNATE SPECIFICATIONS.
- DEMOLITION WORK SHALL NOT BE INCLUDED IN THE BASE BID. SEE SPECIFICATIONS AND BID SCHEDULE FOR DESIGNATION OF DEMOLITION WORK ITEMS.

EXISTING BUILDING LEGEND

IDENTIFIER	DESCRIPTION	DEMO NOTES
A	EXISTING HEADWORKS	TO BE MODIFIED
B	EXISTING OXIDATION DITCH	TO BE DEMOLISHED (MANDATORY ALTERNATE)
C	EXISTING FLOW SPLITTER STRUCTURE	TO BE DEMOLISHED (MANDATORY ALTERNATE)
D	EXISTING FINAL CLARIFIER NO. 1	TO BE DEMOLISHED (MANDATORY ALTERNATE)
E	EXISTING FINAL CLARIFIER NO. 2	TO BE DEMOLISHED (MANDATORY ALTERNATE)
F	EXISTING UV AND POST AERATION STRUCTURE	TO BE DEMOLISHED (MANDATORY ALTERNATE)
G	EXISTING AEROBIC DIGESTER	TO BE MODIFIED
H	EXISTING DRYING BEDS	TO BE MODIFIED
I	EXISTING SLUDGE DRYING PAD	TO BE MODIFIED
J	EXISTING PLANT SITE LIFT STATION	TO BE MODIFIED
K	EXISTING LAB AND GARAGE	TO BE MODIFIED
L	EXISTING ELEVATED STORAGE TOWER	
M	EXISTING GENERATOR	
N	EXISTING SLUDGE LOADING STATION	TO BE DEMOLISHED (MANDATORY ALTERNATE)

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Professional Engineer Seal: ERIC T. PARS ET AL., No. 102003330, STATE OF INDIANA, PROFESSIONAL ENGINEER.
 Signature: [Signature] Date: 01/24/24

**CITY OF ROCKPORT
 SPENCER COUNTY, INDIANA
 WASTEWATER LTCP PHASE 4
 PROJECT
 DIVISION "A" - WWTP**

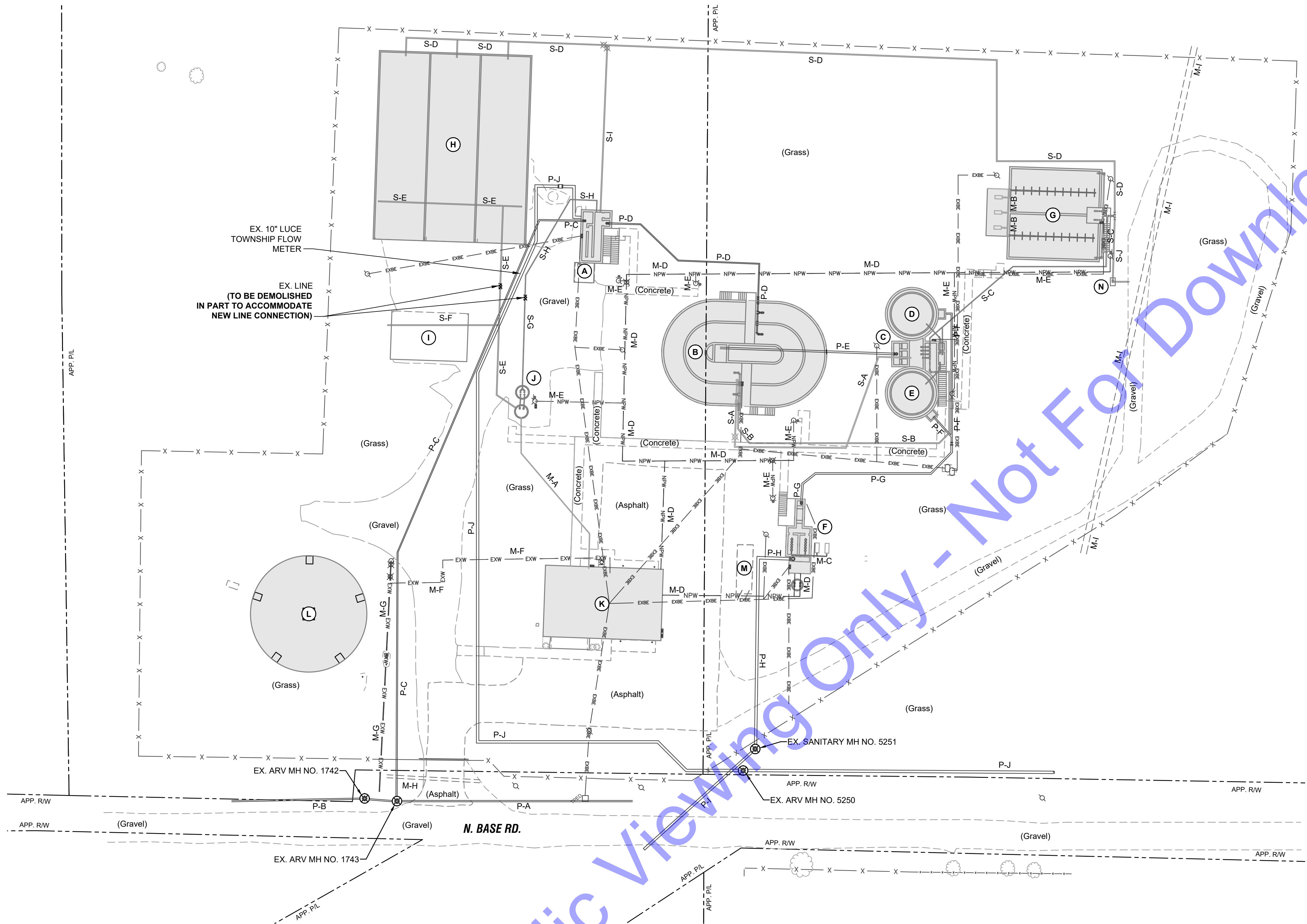
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Date	By	No.	Submittal/Revision

Designed By: JE Drawn By: DAN Checked By: EP
 Issue Date: JAN. 2024 Project No: S20107 Scale: AS SHOWN

EXISTING WWTP SITE DEMOLITION PLAN
 Drawing No: **C03**
 Sheet: 14 OF 177

FILE: Z:\GARDEN IN CLIENTS\N. ROCKPORT\DWG\WATER\TCTP PHASE 4B\CADD\CURRENT FILES\DRAWINGS\DIVISION A - WWTP04-EX. SITE PLAN.DWG
 Sheet: 41/2024, 3/23/24 (P) (Rev. 4/10/2024, 3/24/24) (M. Current User: Dyan Nigley (dyan@commonwealthengineers.com))



EXISTING BUILDING LEGEND		
IDENTIFIER	DESCRIPTION	DEMO NOTES
A	EXISTING HEADWORKS	TO BE MODIFIED
B	EXISTING OXIDATION DITCH	TO BE DEMOLISHED (MANDATORY ALTERNATE)
C	EXISTING FLOW SPLITTER STRUCTURE	TO BE DEMOLISHED (MANDATORY ALTERNATE)
D	EXISTING FINAL CLARIFIER NO. 1	TO BE DEMOLISHED (MANDATORY ALTERNATE)
E	EXISTING FINAL CLARIFIER NO. 2	TO BE DEMOLISHED (MANDATORY ALTERNATE)
F	EXISTING UV AND POST AERATION STRUCTURE	TO BE DEMOLISHED (MANDATORY ALTERNATE)
G	EXISTING AEROBIC DIGESTER	TO BE MODIFIED
H	EXISTING DRYING BEDS	TO BE MODIFIED
I	EXISTING SLUDGE DRYING PAD	TO BE MODIFIED
J	EXISTING PLANT SITE LIFT STATION	TO BE MODIFIED
K	EXISTING LAB AND GARAGE	TO BE MODIFIED
L	EXISTING ELEVATED STORAGE TOWER	
M	EXISTING GENERATOR	
N	EXISTING SLUDGE LOADING STATION	TO BE DEMOLISHED (MANDATORY ALTERNATE)

EXISTING PROCESS PIPING LEGEND	
ID	DESCRIPTION
P-A	EX. 8" D.I. FORCE MAIN FROM COLLECTION SYSTEM (FROM NORTH)
P-B	EX. 8" D.I. FORCE MAIN FROM COLLECTION SYSTEM (FROM SOUTH)
P-C	EX. 10" D.I. RAW SEWER FORCE MAIN HEADER FROM COLLECTION SYSTEM TO EX. HEADWORKS
P-D	EX. 10" D.I. FROM EX. HEADWORKS TO EX. OXIDATION DITCH (TO BE ABANDONED)
P-E	EX. 10" D.I. FROM EX. OXIDATION DITCH TO EX. FLOW SPLITTER STRUCTURE (TO BE ABANDONED)
P-F	EX. 8" D.I. FROM EX. FINAL CLARIFIER TANKS (TO BE ABANDONED)
P-G	EX. 10" D.I. FROM EX. FINAL CLARIFIER TANKS TO EX. UV AND POST AERATION STRUCTURE (TO BE ABANDONED)
P-H	EX. 15" D.I. EFFLUENT LINE FROM EX. UV AND POST AERATION STRUCTURE TO EX. MH NO. 5251
P-I	EX. 15" D.I. EFFLUENT LINE FROM EX. MH NO. 5251 TO EX. PLANT OUTFALL OUTFALL AT HUFFMAN DITCH
P-J	EX. 10 D.I. FORCE MAIN FROM LUCE TOWNSHIP REGIONAL SEWER DISTRICT TO EX. HEADWORKS

EXISTING SLUDGE PIPING LEGEND	
ID	DESCRIPTION
S-A	EX. 6" D.I. DRAIN LINE FROM EX. OXIDATION DITCH TO EX. FINAL CLARIFIER TANKS (TO BE ABANDONED)
S-B	EX. 6" D.I. RAS LINE FROM EX. FINAL CLARIFIER TANKS TO EX. OXIDATION DITCH (TO BE ABANDONED)
S-C	EX. 6" D.I. WAS LINE FROM EX. FINAL CLARIFIER TANKS TO EX. AEROBIC DIGESTER (TO BE ABANDONED)
S-D	EX. 6" D.I. SLUDGE LINE FROM EX. AEROBIC DIGESTER TO EX. SLUDGE DRYING BEDS
S-E	EX. 6" D.I. DRAIN LINE FROM EX. SLUDGE DRYING BEDS TO EX. PLANT LIFT STATION (TO BE MODIFIED)
S-F	EX. 6" D.I. DRAIN LINE FROM SLUDGE STORAGE PAD CONNECTING TO EX. 6" DRAIN LINE FROM EX. SLUDGE DRYING BEDS
S-G	EX. 4" D.I. FORCE MAIN FROM EX. PLANT LIFT STATION TO EX. HEADWORKS
S-H	EX. 4" D.I. FORCE MAIN FROM EX. PLANT LIFT STATION TO EX. HEADWORKS (TO BE ABANDONED)
S-I	EX. 6" D.I. DRAIN LINE FROM EX. AEROBIC DIGESTER TO EX. HEADWORKS (TO BE ABANDONED)
S-J	EX. 6" D.I. SLUDGE LINE FROM EX. AEROBIC DIGESTER TO SLUDGE FILL STATION

EXISTING MISCELLANEOUS PIPING LEGEND	
ID	DESCRIPTION
M-A	EX. 4" D.I. DRAIN LINE FROM EX. LAB AND GARAGE TO EX. PLANT LIFT STATION
M-B	EX. 6" AIR LINE FOR EX. AEROBIC DIGESTER (TO BE REPLACED)
M-C	EX. 3" AIR LINE FOR EX. UV AND POST AERATION STRUCTURE (TO BE DEMOLISHED AND REMOVED)
M-D	EX. 3" PVC NON-POTABLE WATER LINE (TO BE ABANDONED)
M-E	EX. 2" PVC NON-POTABLE WATER LINE (TO BE ABANDONED)
M-F	EX. 2" POTABLE WATER LINE
M-G	EX. 6" POTABLE WATER MAIN
M-H	EX. 18" STORM CULVERT LINE
M-I	EX. 36" STORM CULVERT LINE

SITE PLAN
 SCALE: 1"=30'-0"
 0 30' 60'

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Professional Engineer Seal: E.P. Parsley, No. 102003330, State of Indiana.
 Signature: [Signature] Date: 01/24/24

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 SPENCER COUNTY, INDIANA
 WASTEWATER LTCP PHASE 4
 PROJECT
 DIVISION "A" - WWTP**

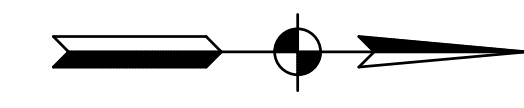
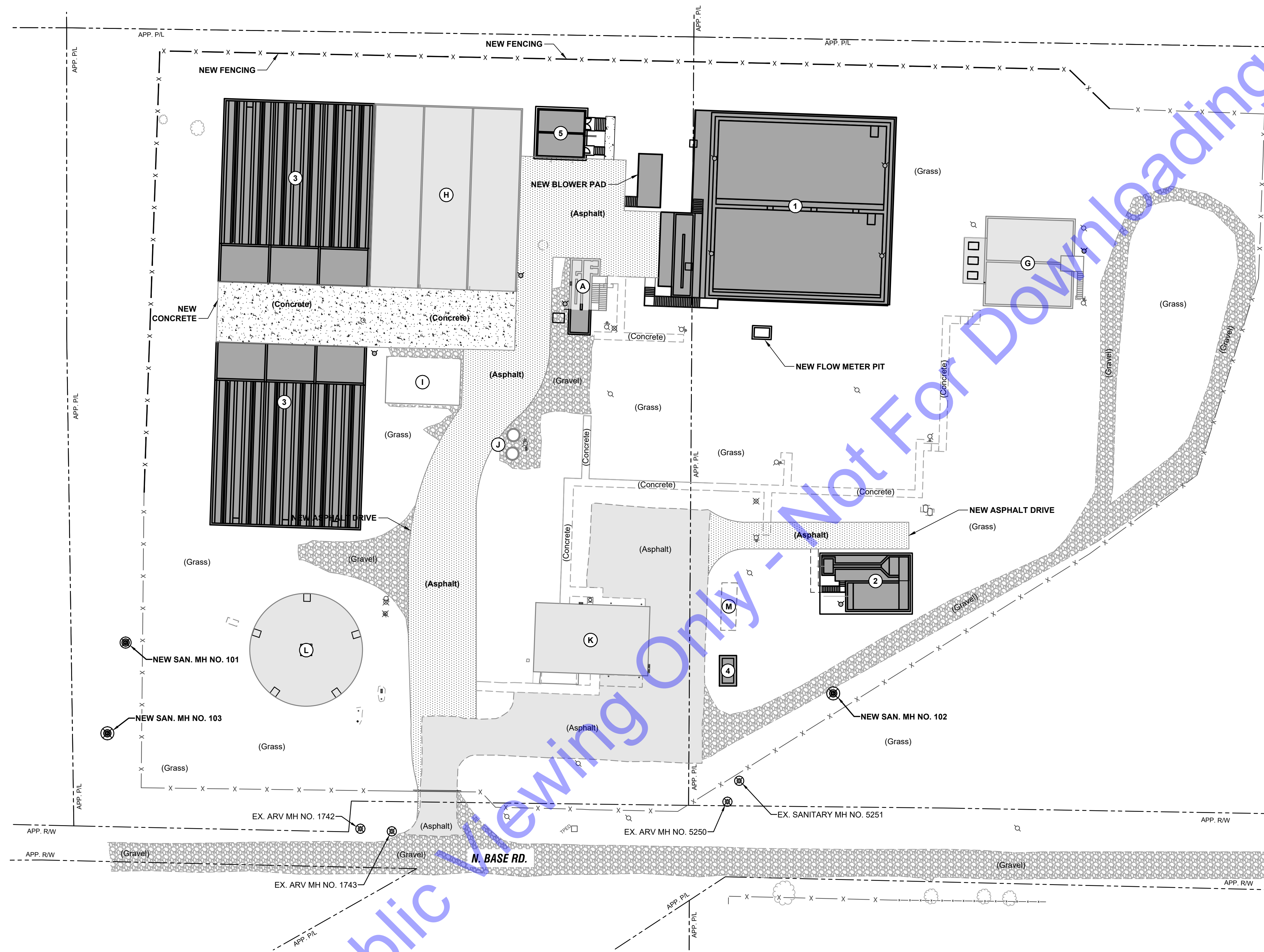
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No.	Submittal / Revision	Date	By

Designed By: JE	Drawn By: DAN	Checked By: EP
Issue Date: JAN. 2024	Project No: S20107	Scale: AS SHOWN

EXISTING WWTP SITE PIPING DEMOLITION PLAN

FILE: Z:\GARDEN IN CLINTON, IN\ROCKPORT\021017 WASTE WATER LTCP PHASE 4B, CDDA, CURRENT FILES\DRAWINGS\DIVISION A - WWTP\PROPOSED SITE PLANS.DWG
 Sheet: 4/12/2024, 3:20:25 PM, Plotted: 4/12/2024, 3:24:55 PM, Current User: Dylan Nigam, User: dylan@commonwealth.com



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SITE PLAN
 SCALE: 1"=30'-0"
 0 30' 60'

EXISTING BUILDING LEGEND	
IDENTIFIER	DESCRIPTION
A	EXISTING HEADWORKS
G	EXISTING AEROBIC DIGESTER
H	EXISTING DRYING BEDS
I	EXISTING SLUDGE DRYING PAD
J	EXISTING PLANT SITE LIFT STATION
K	EXISTING LAB AND GARAGE
L	EXISTING ELEVATED STORAGE TOWER
M	EXISTING GENERATOR

NEW BUILDING LEGEND	
IDENTIFIER	DESCRIPTION
1	NEW SBR TREATMENT FACILITY
2	NEW UV AND CASCADE AERATION STRUCTURE
3	NEW SLUDGE DRYING BEDS
4	NEW EMERGENCY GENERATOR
5	NEW CHEMICAL FEED AND ELECTRICAL BUILDING

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 BOWLING GREEN, KY
 SOUTH BEND, IN

Professional Engineer Seal for E.R.C.T. PARS ET AL., No. 102003330, State of Indiana.
 Signature: [Signature] Date: 01/24/24

CITY OF ROCKPORT, INDIANA
SPENCER COUNTY, INDIANA
WASTEWATER LTCP PHASE 4 PROJECT
DIVISION "A" - WWTP

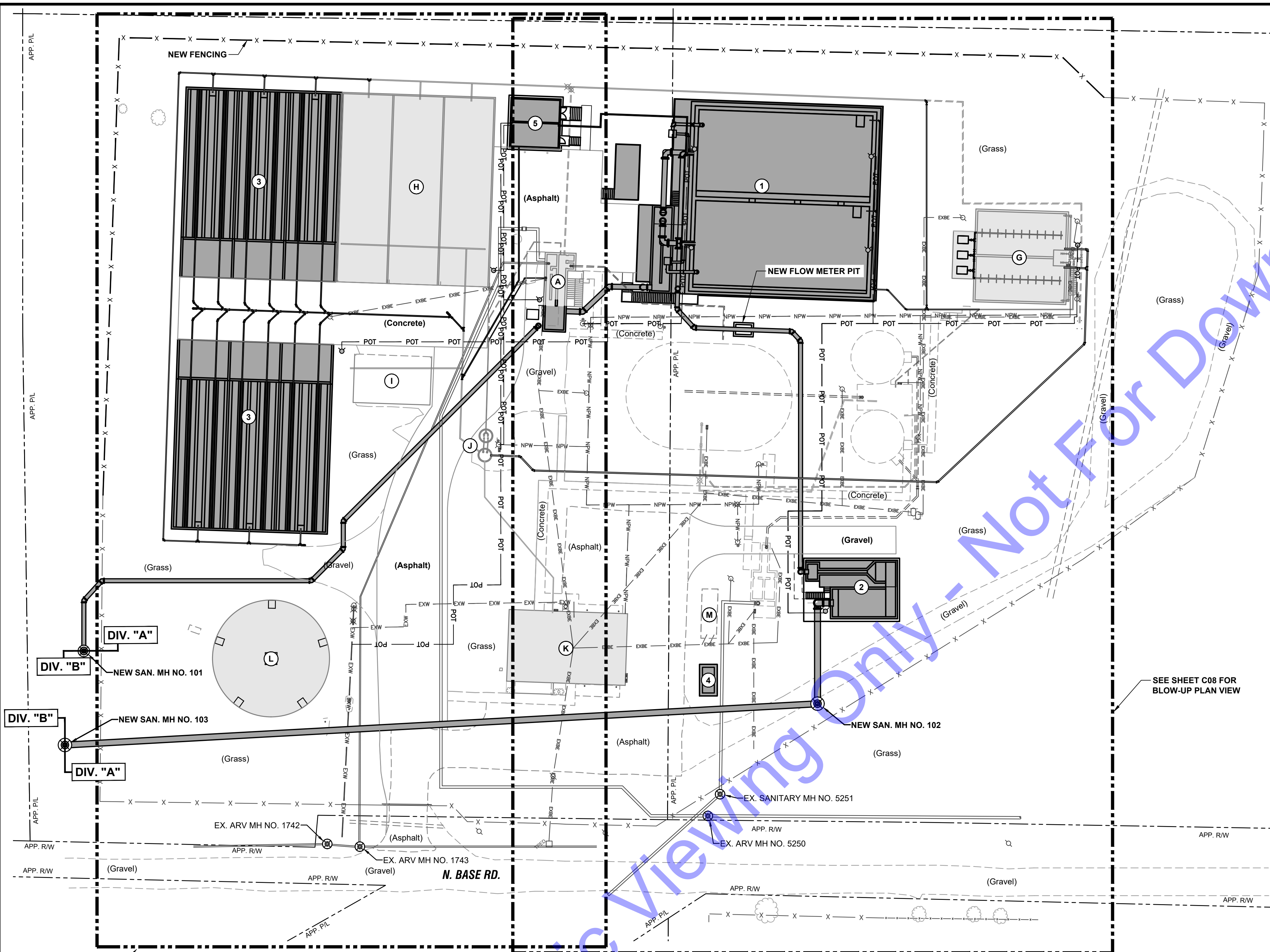
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Designed By:	Drawn By:	Checked By:
JE	DAN	EP
Issue Date:	Project No:	Scale:
JAN. 2024	S20107	AS SHOWN

EXISTING WWTP SITE IMPROVEMENTS PLAN

FILE: Z:\GARDEN IN CENTER\14206\000\001\01\WASTEWATER LTCP PHASE 4B - CDD\1 CURRENT FILES\DRAWINGS\DIVISION A - WWTP\AS-PROPOSED SITE PLANS.DWG
 Sheet: 41/02/24 3:20:52 PM Project: 4102024.32528 PM Current User: Dhan Nagesh Lakshminarayana
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SITE PLAN
SCALE: 1"=30'-0"
0 30' 60'

NEW BUILDING LEGEND

IDENTIFIER	DESCRIPTION
1	NEW SBR TREATMENT FACILITY
2	NEW UV AND CASCADE AERATION STRUCTURE
3	NEW SLUDGE DRYING BEDS
4	NEW EMERGENCY GENERATOR
5	NEW CHEMICAL FEED AND ELECTRICAL BUILDING

EXISTING BUILDING LEGEND

IDENTIFIER	DESCRIPTION
A	EXISTING HEADWORKS
G	EXISTING AEROBIC DIGESTER
H	EXISTING DRYING BEDS
I	EXISTING SLUDGE DRYING PAD
J	EXISTING PLANT SITE LIFT STATION
K	EXISTING LAB AND GARAGE
L	EXISTING ELEVATED STORAGE TOWER
M	EXISTING GENERATOR

NEW PROCESS PIPING LEGEND

ID	DESCRIPTION
N-A	NEW 24" INFLUENT LINE FROM NEW SAN. MH NO. 101 TO EX. HEADWORKS
N-B	NEW 30" INFLUENT LINE FROM EX. HEADWORKS TO NEW SBR TREATMENT FACILITY
N-C	NEW 30" INFLUENT LINE FROM NEW SCREENING STRUCTURE TO NEW SBR TANKS
N-D	NEW 24" DECANT LINE FROM EX. SBR TANKS TO NEW UV AND CASCADE AERATION STRUCTURE
N-E	NEW 36" EFFLUENT LINE FROM NEW UV AND CASCADE AERATION STRUCTURE TO NEW SAN. MH NO. 103

NEW SLUDGE PIPING LEGEND

ID	DESCRIPTION
N-F	NEW 6" SLUDGE LINE FROM NEW SBR TREATMENT FACILITY TO CONNECT TO EX. AEROBIC DIGESTER 6" SLUDGE LINE
N-G	NEW 6" SLUDGE BY-PASS LINE FROM NEW SBR TREATMENT FACILITY TO EX. HEADWORKS OR DRYING BEDS
N-H	NEW 6" DECANT LINE FROM EX. AEROBIC DIGESTER TO EX. PLANT LIFT STATION
N-I	NEW 4" DRAIN LINE FORCE MAIN FROM EX. PLANT LIFT STATION TO EX. HEADWORKS
N-J	NEW 6" SLUDGE LINE FROM EX. AEROBIC DIGESTER 6" SLUDGE LINE TO NEW SLUDGE DRYING BEDS

NEW MISCELLANEOUS PIPING LEGEND

ID	DESCRIPTION
N-L	NEW 6" DRAIN LINE FROM NEW SLUDGE DRYING BEDS TO CONNECT TO EX. SLUDGE DRYING BEDS 6" DRAIN LINE
N-M	NEW 3" CHEMICAL CARRIER LINE FROM NEW CHEMICAL FEED AND ELECTRICAL BUILDING TO NEW SBR TANKS
N-N	NEW 2" POTABLE WATER LINE
N-O	NEW 4" POTABLE WATER LINE
N-P	NEW 12" SBR AERATION MIXER LINE
N-Q	NEW 16" SBR AERATION SUCTION LINE
N-R	NEW 4" DRAIN LINE FROM NEW CHEMICAL FEED AND ELECTRICAL BUILDING

EXISTING PROCESS PIPING LEGEND

ID	DESCRIPTION
P-A	EX. 8" D.I. FORCE MAIN FROM COLLECTION SYSTEM (FROM NORTH)
P-B	EX. 8" D.I. FORCE MAIN FROM COLLECTION SYSTEM (FROM SOUTH)
P-C	EX. 10" D.I. RAW SEWER FORCE MAIN HEADER FROM COLLECTION SYSTEM TO EX. HEADWORKS
P-D	EX. 10" D.I. FROM EX. HEADWORKS TO EX. OXIDATION DITCH (TO BE ABANDONED)
P-E	EX. 10" D.I. FROM EX. OXIDATION DITCH TO EX. FLOW SPLITTER STRUCTURE (TO BE ABANDONED)
P-F	EX. 8" D.I. FROM EX. FINAL CLARIFIER TANKS (TO BE ABANDONED)
P-G	EX. 10" D.I. FROM EX. FINAL CLARIFIER TANKS TO EX. UV AND POST AERATION STRUCTURE (TO BE ABANDONED)
P-H	EX. 15" D.I. EFFLUENT LINE FROM EX. UV AND POST AERATION STRUCTURE TO EX. MH NO. 5251
P-I	EX. 15" D.I. EFFLUENT LINE FROM EX. MH NO. 5251 TO EX. PLANT OUTFALL OUTFALL AT HUFFMAN DITCH
P-J	EX. 10 D.I. FORCE MAIN FROM LUCE TOWNSHIP REGIONAL SEWER DISTRICT TO EX. HEADWORKS

EXISTING SLUDGE PIPING LEGEND

ID	DESCRIPTION
S-A	EX. 6" D.I. DRAIN LINE FROM EX. OXIDATION DITCH TO EX. FINAL CLARIFIER TANKS (TO BE ABANDONED)
S-B	EX. 6" D.I. RAS LINE FROM EX. FINAL CLARIFIER TANKS TO EX. OXIDATION DITCH (TO BE ABANDONED)
S-C	EX. 6" D.I. WAS LINE FROM EX. FINAL CLARIFIER TANKS TO EX. AEROBIC DIGESTER (TO BE PARTIALLY ABANDONED)
S-D	EX. 6" D.I. SLUDGE LINE FROM EX. AEROBIC DIGESTER TO EX. SLUDGE DRYING BEDS
S-E	EX. 6" D.I. DRAIN LINE FROM EX. SLUDGE DRYING BEDS TO EX. PLANT LIFT STATION (TO BE MODIFIED)
S-F	EX. 6" D.I. DRAIN LINE FROM SLUDGE STORAGE PAD CONNECTING TO EX. 6" DRAIN LINE FROM EX. SLUDGE DRYING BEDS
S-G	EX. 4" D.I. FORCE MAIN FROM EX. PLANT LIFT STATION TO EX. HEADWORKS
S-H	EX. 4" D.I. FORCE MAIN FROM EX. PLANT LIFT STATION TO EX. HEADWORKS (TO BE ABANDONED)
S-I	EX. 6" D.I. DRAIN LINE FROM EX. AEROBIC DIGESTER TO EX. HEADWORKS (TO BE ABANDONED)
S-J	EX. 6" D.I. SLUDGE LINE FROM EX. AEROBIC DIGESTER TO SLUDGE FILL STATION

EXISTING MISCELLANEOUS PIPING LEGEND

ID	DESCRIPTION
M-A	EX. 4" D.I. DRAIN LINE FROM EX. LAB AND GARAGE TO EX. PLANT LIFT STATION
M-B	EX. 6" AIR LINE FOR EX. AEROBIC DIGESTER (TO BE REPLACED)
M-C	EX. 3" AIR LINE FOR EX. UV AND POST AERATION STRUCTURE (TO BE DEMOLISHED AND REMOVED)
M-D	EX. 3" PVC NON-POTABLE WATER LINE (TO BE ABANDONED)
M-E	EX. 2" PVC NON-POTABLE WATER LINE (TO BE ABANDONED)
M-F	EX. 2" POTABLE WATER LINE
M-G	EX. 6" POTABLE WATER MAIN
M-H	EX. 18" STORM CULVERT LINE
M-I	EX. 36" STORM CULVERT LINE

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Professional Engineer Seal for Eric T. Parsi, No. 10200330, State of Indiana.
 Signature: [Signature] Date: 01/24/24

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 PROJECT
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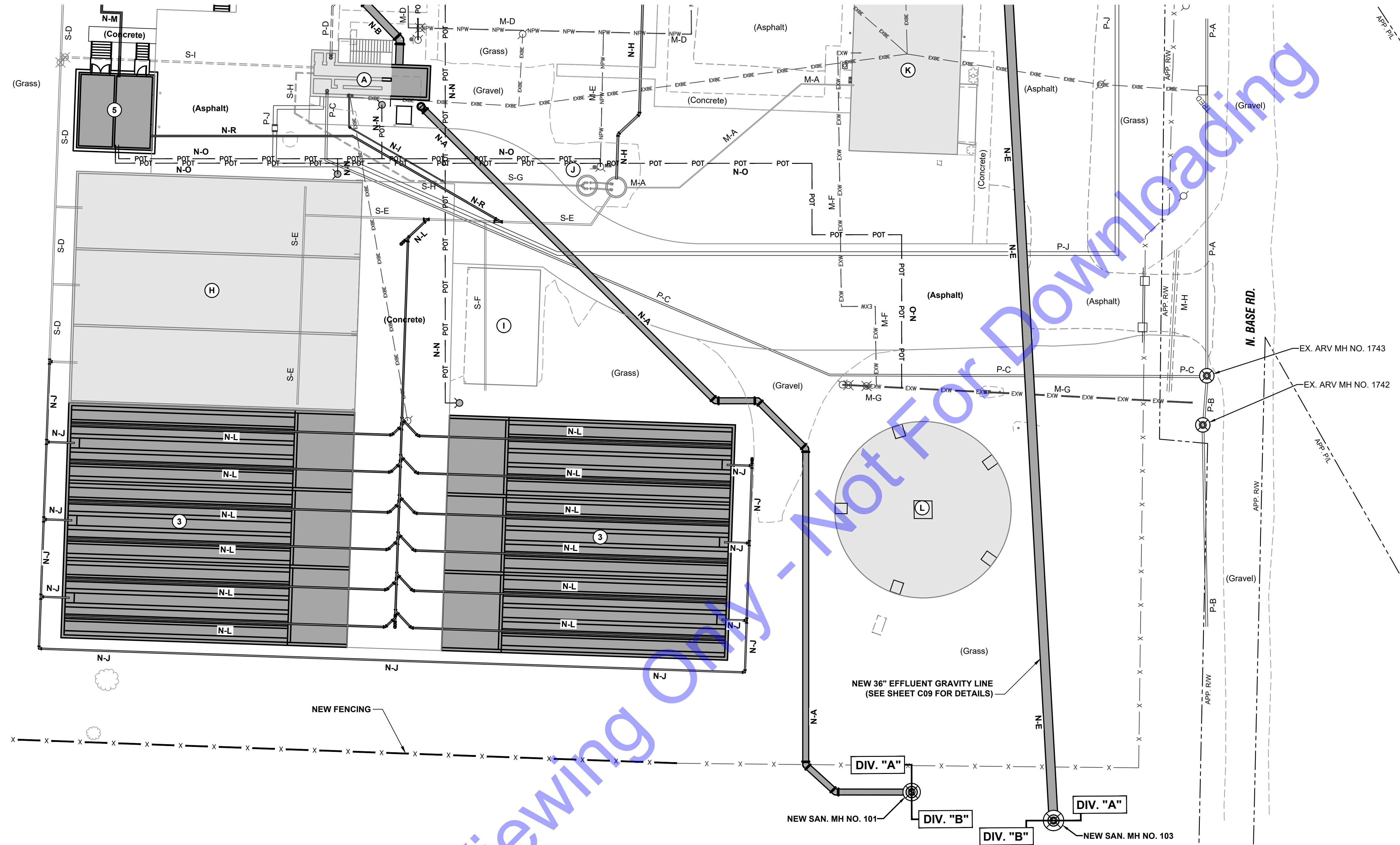
Revision table with columns for No., Date, Submittal/Revision, and Description.

Design and Issue Information:
 Designed By: JE, Drawn By: DAN, Checked By: EP
 Issue Date: JAN. 2024, Project No: S20107, Scale: AS SHOWN

EXISTING WWTP SITE IMPROVEMENTS PLAN

Drawing No: **C06**
 Sheet: 17 OF 177

File: Z:\GARDEN\CLIENTS\WATER\ROCKPORT\CD\107\WATER\LTCF\PHASE 4\B\CD\A\CURRENT FILES\DRAWINGS\DIVISION A - WWTDS-PROPOSED SITE PLANS.DWG
 Sheet: 41 of 202 3/20/24 1:32:53 PM Project: 4102024.0036.10 P.M. Current User: Dhan Megha Lakshminarayana



SITE PLAN
 SCALE: 1"=20'-0"
 0 20' 40'

EXISTING PROCESS PIPING LEGEND	
ID	DESCRIPTION
P-A	EX. 8" D.I. FORCE MAIN FROM COLLECTION SYSTEM (FROM NORTH)
P-B	EX. 8" D.I. FORCE MAIN FROM COLLECTION SYSTEM (FROM SOUTH)
P-C	EX. 10" D.I. RAW SEWER FORCE MAIN HEADER FROM COLLECTION SYSTEM TO EX. HEADWORKS
P-D	EX. 10" D.I. FROM EX. HEADWORKS TO EX. OXIDATION DITCH (TO BE ABANDONED)
P-J	EX. 10 D.I. FORCE MAIN FROM LUCE TOWNSHIP REGIONAL SEWER DISTRICT TO EX. HEADWORKS

EXISTING SLUDGE PIPING LEGEND	
ID	DESCRIPTION
S-D	EX. 6" D.I. SLUDGE LINE FROM EX. AEROBIC DIGESTER TO EX. SLUDGE DRYING BEDS
S-E	EX. 6" D.I. DRAIN LINE FROM EX. SLUDGE DRYING BEDS TO EX. PLANT LIFT STATION (TO BE MODIFIED)
S-F	EX. 6" D.I. DRAIN LINE FROM SLUDGE STORAGE PAD CONNECTING TO EX. 6" DRAIN LINE FROM EX. SLUDGE DRYING BEDS
S-G	EX. 4" D.I. FORCE MAIN FROM EX. PLANT LIFT STATION TO EX. HEADWORKS
S-H	EX. 4" D.I. FORCE MAIN FROM EX. PLANT LIFT STATION TO EX. HEADWORKS (TO BE ABANDONED)
S-I	EX. 6" D.I. DRAIN LINE FROM EX. AEROBIC DIGESTER TO EX. HEADWORKS (TO BE ABANDONED)

EXISTING MISCELLANEOUS PIPING LEGEND	
ID	DESCRIPTION
M-A	EX. 4" D.I. DRAIN LINE FROM EX. LAB AND GARAGE TO EX. PLANT LIFT STATION
M-D	EX. 3" PVC NON-POTABLE WATER LINE (TO BE ABANDONED)
M-E	EX. 2" PVC NON-POTABLE WATER LINE (TO BE ABANDONED)
M-F	EX. 2" POTABLE WATER LINE
M-G	EX. 6" POTABLE WATER MAIN
M-H	EX. 18" STORM CULVERT LINE

NEW PROCESS PIPING LEGEND	
ID	DESCRIPTION
N-A	NEW 24" INFLUENT LINE FROM NEW SAN. MH NO. 101 TO EX. HEADWORKS
N-B	NEW 30" INFLUENT LINE FROM EX. HEADWORKS TO NEW SBR TREATMENT FACILITY
N-E	NEW 36" EFFLUENT LINE FROM NEW UV AND CASCADE AERATION STRUCTURE TO NEW SAN. MH NO. 103

NEW SLUDGE PIPING LEGEND	
ID	DESCRIPTION
N-H	NEW 6" DECANT LINE FROM EX. AEROBIC DIGESTER TO EX. PLANT LIFT STATION
N-I	NEW 4" DRAIN LINE FORCE MAIN FROM EX. PLANT LIFT STATION TO EX. HEADWORKS
N-J	NEW 6" SLUDGE LINE FROM EX. AEROBIC DIGESTER 6" SLUDGE LINE TO NEW SLUDGE DRYING BEDS

NEW MISCELLANEOUS PIPING LEGEND	
ID	DESCRIPTION
N-L	NEW 6" DRAIN LINE FROM NEW SLUDGE DRYING BEDS TO CONNECT TO EX. SLUDGE DRYING BEDS 6" DRAIN LINE
N-M	NEW 3" CHEMICAL CARRIER LINE FROM NEW CHEMICAL FEED AND ELECTRICAL BUILDING TO NEW SBR TANKS
N-N	NEW 2" POTABLE WATER LINE
N-O	NEW 4" POTABLE WATER LINE
N-R	NEW 4" DRAIN LINE FROM NEW CHEMICAL FEED AND ELECTRICAL BUILDING

NEW BUILDING LEGEND	
IDENTIFIER	DESCRIPTION
1	NEW SBR TREATMENT FACILITY
2	NEW UV AND CASCADE AERATION STRUCTURE
3	NEW SLUDGE DRYING BEDS
4	NEW EMERGENCY GENERATOR
5	NEW CHEMICAL FEED AND ELECTRICAL BUILDING

EXISTING BUILDING LEGEND	
IDENTIFIER	DESCRIPTION
A	EXISTING HEADWORKS
G	EXISTING AEROBIC DIGESTER
H	EXISTING DRYING BEDS
I	EXISTING SLUDGE DRYING PAD
J	EXISTING PLANT SITE LIFT STATION
K	EXISTING LAB AND GARAGE
L	EXISTING ELEVATED STORAGE TOWER
M	EXISTING GENERATOR

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Signature: *[Signature]* Date: 01/24/24

**CITY OF ROCKPORT
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 WASTEWATER LTCF PHASE 4
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 DIVISION "A" - WWTP**

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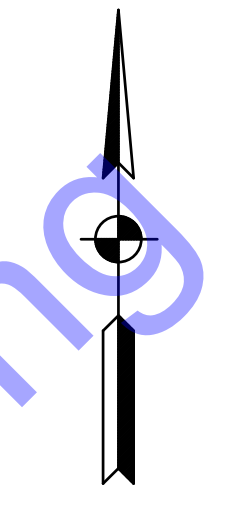
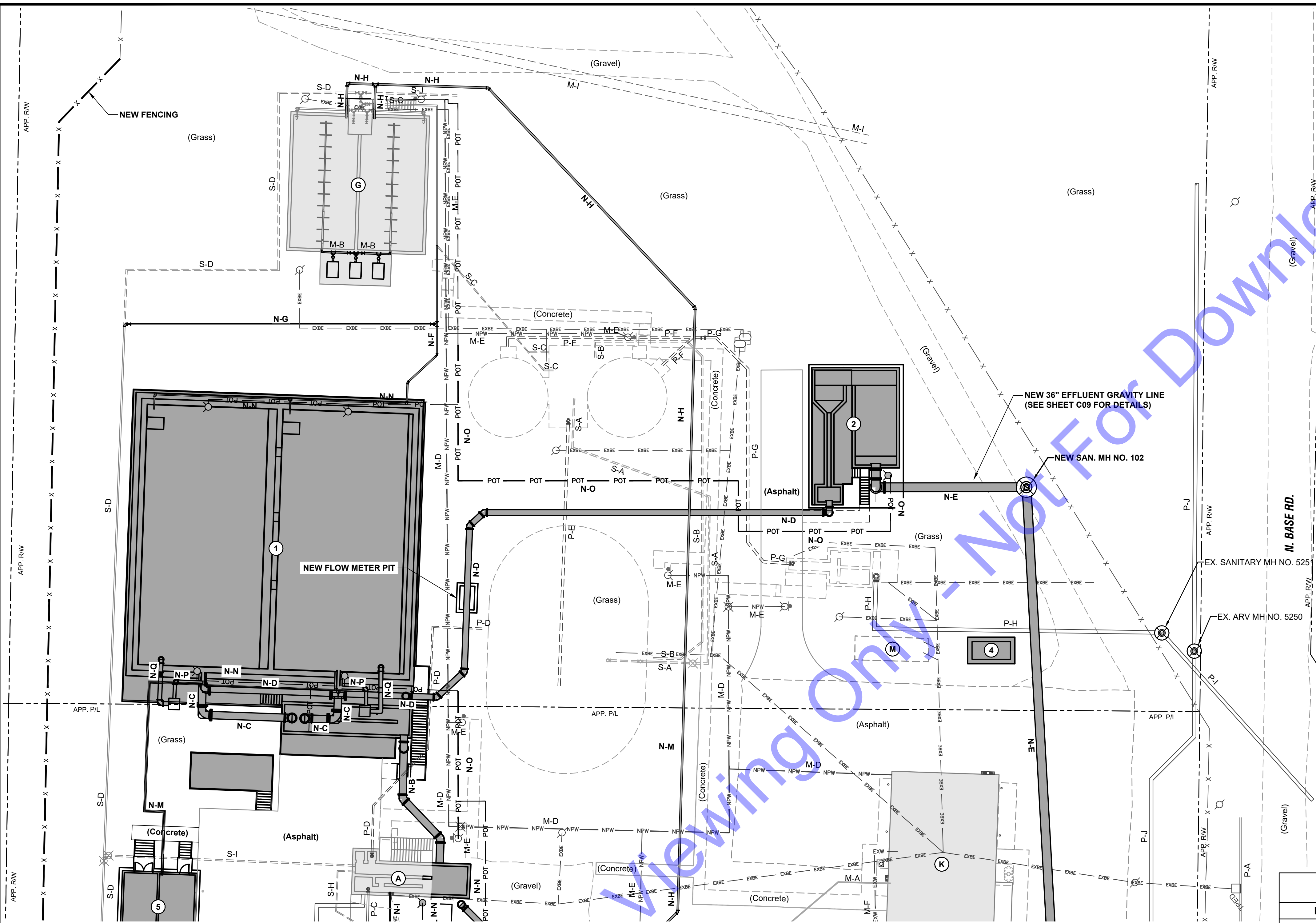
Date:	By:	Submitted/Revision:	Designed By:	Drawn By:	Checked By:
			JE	DAN	EP
Issue Date:	Project No:	Scale:			
JAN. 2024	S20107	AS SHOWN			

EXISTING WWTP SITE IMPROVEMENTS SOUTH BLOW-UP PLAN

Drawing No: **C07**

Sheet: 18 OF 177

FILE: Z:\SHARED\IN CLIENTS\N.2000\PORTD.03107\WASTEWATER LTCP PHASE 4 - WWTPAS-PROPOSED SITE PLANS.DWG
 Sheet: 4/12/2024, 3:20:25 PM, Plotted: 4/12/2024, 3:21:11 PM, Current User: Dylan Nelligan, User Email: dnelligan@commonwealthengineers.com



EXISTING PROCESS PIPING LEGEND

ID	DESCRIPTION
P-A	EX. 8" D.I. FORCE MAIN FROM COLLECTION SYSTEM (FROM NORTH)
P-C	EX. 10" D.I. RAW SEWER FORCE MAIN HEADER FROM COLLECTION SYSTEM TO EX. HEADWORKS
P-D	EX. 10" D.I. FROM EX. HEADWORKS TO EX. OXIDATION DITCH (TO BE ABANDONED)
P-E	EX. 10" D.I. FROM EX. OXIDATION DITCH TO EX. FLOW SPLITTER STRUCTURE (TO BE ABANDONED)
P-F	EX. 8" D.I. FROM EX. FINAL CLARIFIER TANKS (TO BE ABANDONED)
P-G	EX. 10" D.I. FROM EX. FINAL CLARIFIER TANKS TO EX. UV AND POST AERATION STRUCTURE (TO BE ABANDONED)
P-H	EX. 15" D.I. EFFLUENT LINE FROM EX. UV AND POST AERATION STRUCTURE TO EX. MH NO. 5251
P-I	EX. 15" D.I. EFFLUENT LINE FROM EX. MH NO. 5251 TO EX. PLANT OUTFALL OUTFALL AT HUFFMAN DITCH
P-J	EX. 10 D.I. FORCE MAIN FROM LUCE TOWNSHIP REGIONAL SEWER DISTRICT TO EX. HEADWORKS

EXISTING SLUDGE PIPING LEGEND

ID	DESCRIPTION
S-A	EX. 6" D.I. DRAIN LINE FROM EX. OXIDATION DITCH TO EX. FINAL CLARIFIER TANKS (TO BE ABANDONED)
S-B	EX. 6" D.I. RAS LINE FROM EX. FINAL CLARIFIER TANKS TO EX. OXIDATION DITCH (TO BE ABANDONED)
S-C	EX. 6" D.I. WAS LINE FROM EX. FINAL CLARIFIER TANKS TO EX. AEROBIC DIGESTER (TO BE PARTIALLY ABANDONED)
S-D	EX. 6" D.I. SLUDGE LINE FROM EX. AEROBIC DIGESTER TO EX. SLUDGE DRYING BEDS
S-H	EX. 4" D.I. FORCE MAIN FROM EX. PLANT LIFT STATION TO EX. HEADWORKS (TO BE ABANDONED)
S-I	EX. 6" D.I. DRAIN LINE FROM EX. AEROBIC DIGESTER TO EX. HEADWORKS (TO BE ABANDONED)
S-J	EX. 6" D.I. SLUDGE LINE FROM EX. AEROBIC DIGESTER TO SLUDGE FILL STATION

EXISTING MISCELLANEOUS PIPING LEGEND

ID	DESCRIPTION
M-A	EX. 4" D.I. DRAIN LINE FROM EX. LAB AND GARAGE TO EX. PLANT LIFT STATION
M-D	EX. 3" PVC NON-POTABLE WATER LINE (TO BE ABANDONED)
M-E	EX. 2" PVC NON-POTABLE WATER LINE (TO BE ABANDONED)
M-F	EX. 2" POTABLE WATER LINE
M-G	EX. 6" POTABLE WATER MAIN
M-H	EX. 18" STORM CULVERT LINE
M-I	EX. 36" STORM CULVERT LINE

EXISTING BUILDING LEGEND

IDENTIFIER	DESCRIPTION
A	EXISTING HEADWORKS
G	EXISTING AEROBIC DIGESTER
H	EXISTING DRYING BEDS
I	EXISTING SLUDGE DRYING PAD
J	EXISTING PLANT SITE LIFT STATION
K	EXISTING LAB AND GARAGE
L	EXISTING ELEVATED STORAGE TOWER
M	EXISTING GENERATOR

NEW BUILDING LEGEND

IDENTIFIER	DESCRIPTION
1	NEW SBR TREATMENT FACILITY
2	NEW UV AND CASCADE AERATION STRUCTURE
3	NEW SLUDGE DRYING BEDS
4	NEW EMERGENCY GENERATOR
5	NEW CHEMICAL FEED AND ELECTRICAL BUILDING

NEW PROCESS PIPING LEGEND

ID	DESCRIPTION
N-A	NEW 24" INFLUENT LINE FROM NEW SAN. MH NO. 101 TO EX. HEADWORKS
N-B	NEW 30" INFLUENT LINE FROM EX. HEADWORKS TO NEW SBR TREATMENT FACILITY
N-C	NEW 30" INFLUENT LINE FROM NEW SCREENING STRUCTURE TO NEW SBR TANKS
N-D	NEW 24" DECANT LINE FROM EX. SBR TANKS TO NEW UV AND CASCADE AERATION STRUCTURE
N-E	NEW 36" EFFLUENT LINE FROM NEW UV AND CASCADE AERATION STRUCTURE TO NEW SAN. MH NO. 103

NEW SLUDGE PIPING LEGEND

ID	DESCRIPTION
N-G	NEW 6" SLUDGE BY-PASS LINE FROM NEW SBR TREATMENT FACILITY TO EX. HEADWORKS OR DRYING BEDS
N-H	NEW 6" DECANT LINE FROM EX. AEROBIC DIGESTER TO EX. PLANT LIFT STATION
N-I	NEW 4" DRAIN LINE FORCE MAIN FROM EX. PLANT LIFT STATION TO EX. HEADWORKS

NEW MISCELLANEOUS PIPING LEGEND

ID	DESCRIPTION
N-M	NEW 3" CHEMICAL CARRIER LINE FROM NEW CHEMICAL FEED AND ELECTRICAL BUILDING TO NEW SBR TANKS
N-N	NEW 2" POTABLE WATER LINE
N-O	NEW 4" POTABLE WATER LINE
N-P	NEW 12" SBR AERATION MIXER LINE
N-Q	NEW 16" SBR AERATION SUCTION LINE

SITE PLAN
 SCALE: 1"=20'-0"
 0 20' 40'

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Professional Engineer
 No. 10200330
 STATE OF INDIANA
 Signature: *E.T. Parsley* Date: 01/24/24

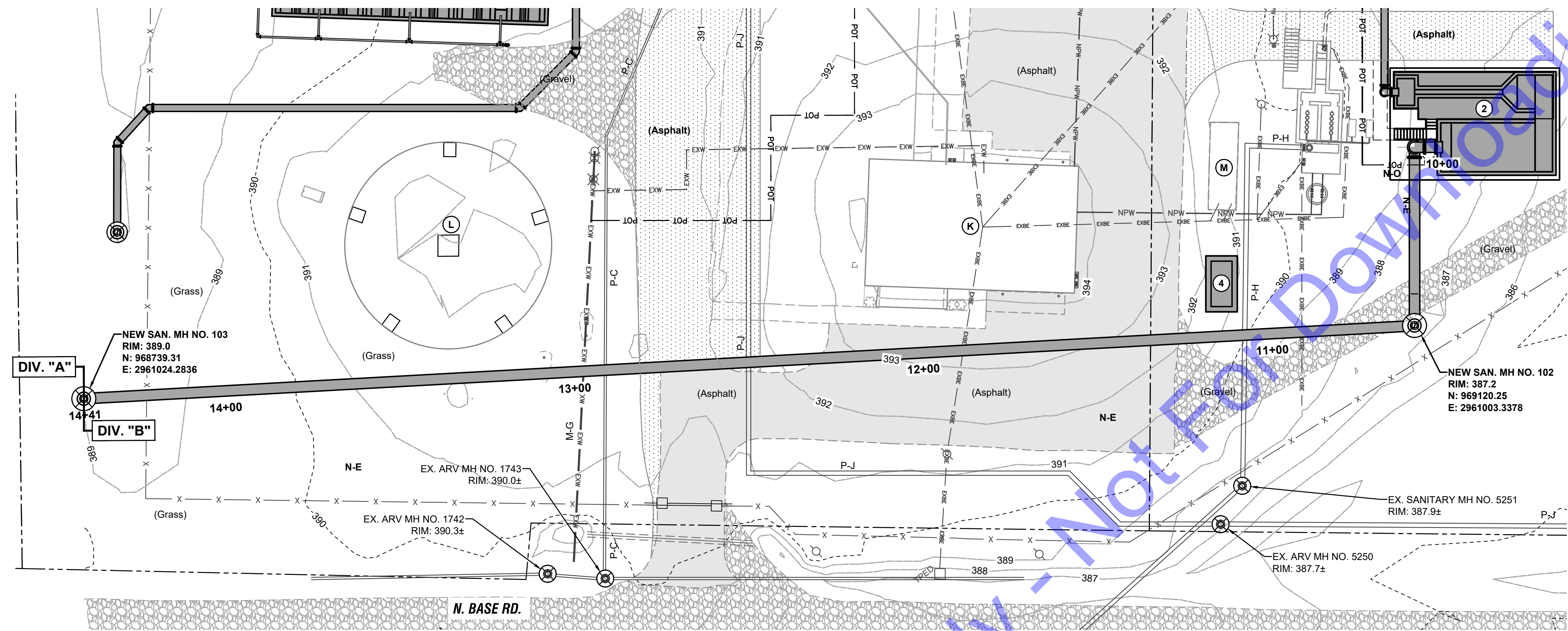
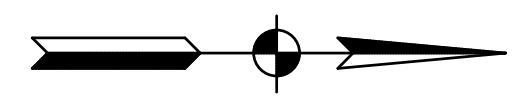
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Designed By: JE	Drawn By: DAN	Checked By: EP
Issue Date: JAN. 2024	Project No: S20107	Scale: AS SHOWN

EXISTING WWTP SITE IMPROVEMENTS NORTH BLOW-UP PLAN



PLAN

NEW BUILDING LEGEND	
IDENTIFIER	DESCRIPTION
2	NEW UV AND CASCADE AERATION STRUCTURE
4	NEW EMERGENCY GENERATOR

EXISTING BUILDING LEGEND	
IDENTIFIER	DESCRIPTION
K	EXISTING LAB AND GARAGE
L	EXISTING ELEVATED STORAGE TOWER
M	EXISTING GENERATOR

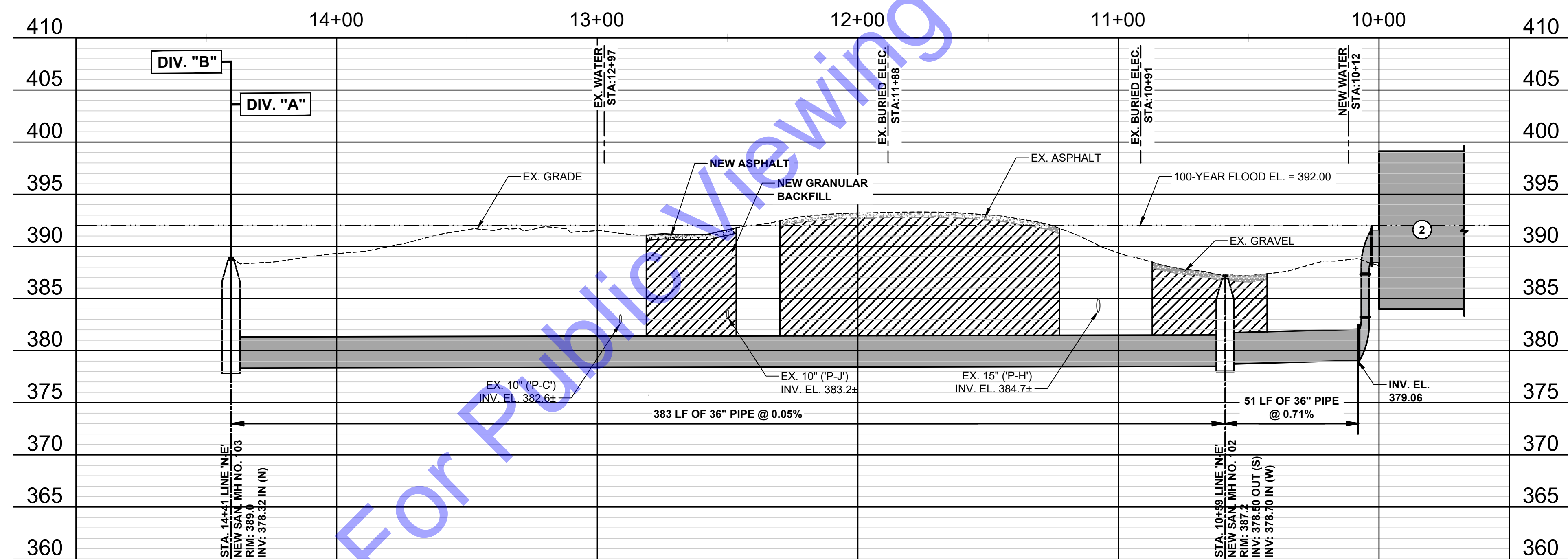
NEW PROCESS PIPING LEGEND	
ID	DESCRIPTION
N-E	NEW 36" EFFLUENT LINE FROM NEW UV AND CASCADE AERATION STRUCTURE TO NEW SAN. MH NO. 103

NEW MISCELLANEOUS PIPING LEGEND	
ID	DESCRIPTION
N-O	NEW 4" POTABLE WATER LINE

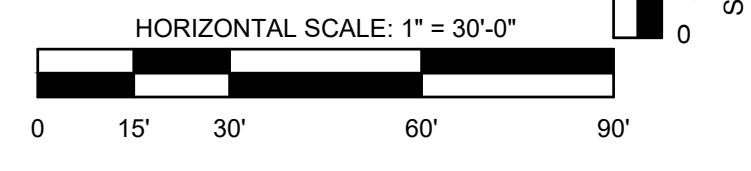
EXISTING PROCESS PIPING LEGEND	
ID	DESCRIPTION
P-H	EX. 15" D.I. EFFLUENT LINE FROM EX. UV AND POST AERATION STRUCTURE TO EX. MH NO. 5251
P-J	EX. 10 D.I. FORCE MAIN FROM LUCE TOWNSHIP REGIONAL SEWER DISTRICT TO EX. HEADWORKS

EXISTING MISCELLANEOUS PIPING LEGEND	
ID	DESCRIPTION
M-G	EX. 6" POTABLE WATER MAIN

GENERAL NOTES:
 1. ALL MANHOLES BELOW THE 100-YEAR FLOOD ELEVATION SHALL HAVE BOLT-DOWN LIDS.



PROFILE - LINE "N-E"



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Professional Engineer Seal: E.T. Parsi, No. 102003330, State of Indiana, Professional Engineer.
 Signature: E.T. Parsi, Date: 01/24/24

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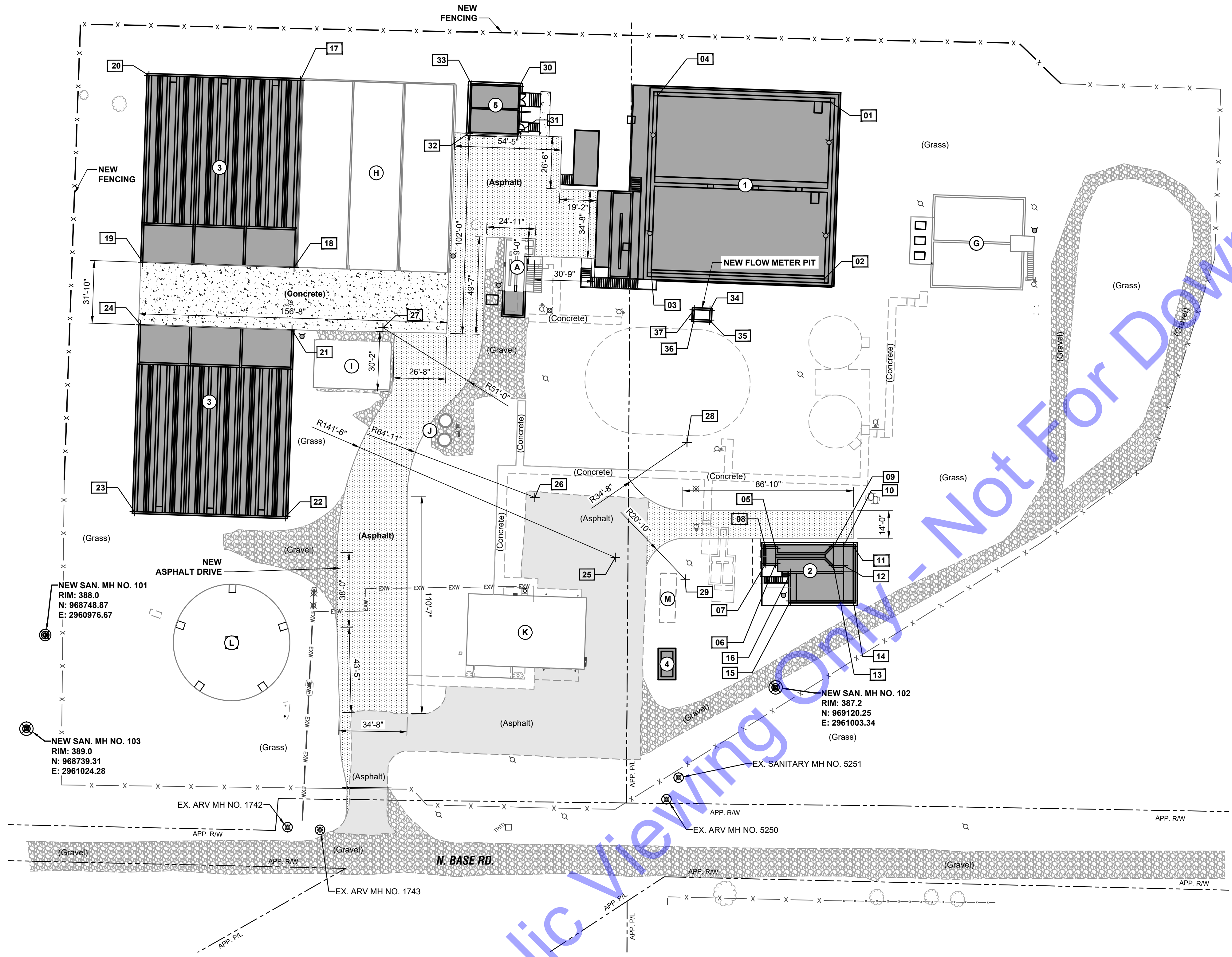
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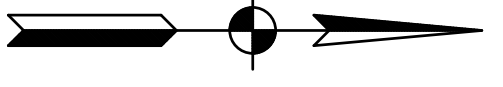
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PLAN AND PROFILE - LINE "N-E"

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NEW STRUCTURE COORDINATES			
IDENTIFIER	DESCRIPTION	NORTHING	EASTING
01	NEW SBR TREATMENT FACILITY - NW CORNER	969148.25	2960705.74
02	NEW SBR TREATMENT FACILITY - NE CORNER	969144.99	2960795.68
03	NEW SBR TREATMENT FACILITY - SE CORNER	969057.05	2960792.49
04	NEW SBR TREATMENT FACILITY - SW CORNER	969060.31	2960702.55
05	NEW UV AND CASCADE AERATION STRUCTURE (UV CHANNEL) - OUTER NW CORNER	969120.25	2960932.69
06	NEW UV AND CASCADE AERATION STRUCTURE (UV CHANNEL) - OUTER NE CORNER	969120.25	2960940.36
07	NEW UV AND CASCADE AERATION STRUCTURE (UV CHANNEL) - OUTER SE CORNER	969115.25	2960940.36
08	NEW UV AND CASCADE AERATION STRUCTURE (UV CHANNEL) - OUTER SW CORNER	969115.25	2960932.69
09	NEW UV AND CASCADE AERATION STRUCTURE (WEIR BOX) - OUTER SW CORNER	969149.63	2960931.69
10	NEW UV AND CASCADE AERATION STRUCTURE (WEIR BOX) - OUTER NW CORNER	969154.75	2960931.69
11	NEW UV AND CASCADE AERATION STRUCTURE (CASCADE AERATION) - NW CORNER	969159.73	2960931.69
12	NEW UV AND CASCADE AERATION STRUCTURE (WEIR BOX) - OUTER NE CORNER	969154.75	2960941.36
13	NEW UV AND CASCADE AERATION STRUCTURE (WEIR BOX) - OUTER SE CORNER	969149.63	2960941.36
14	NEW UV AND CASCADE AERATION STRUCTURE (CASCADE AERATION) - NE CORNER	969159.73	2960959.36
15	NEW UV AND CASCADE AERATION STRUCTURE (CASCADE AERATION) - SE CORNER	969127.75	2960959.36
16	NEW UV AND CASCADE AERATION STRUCTURE (CASCADE AERATION) - SW CORNER	969127.75	2960945.36
17	NEW SLUDGE DRYING BED (WEST) - NW CORNER	968878.60	2960694.76
18	NEW SLUDGE DRYING BED (WEST) - NE CORNER	968875.41	2960789.71
19	NEW SLUDGE DRYING BED (WEST) - SE CORNER	968798.45	2960787.11
20	NEW SLUDGE DRYING BED (WEST) - SW CORNER	968801.65	2960692.17
21	NEW SLUDGE DRYING BED (EAST) - NW CORNER	968874.34	2960821.52
22	NEW SLUDGE DRYING BED (EAST) - NE CORNER	968871.14	2960916.47
23	NEW SLUDGE DRYING BED (EAST) - SE CORNER	968794.19	2960913.88
24	NEW SLUDGE DRYING BED (EAST) - SW CORNER	968797.38	2960818.93
25	NEW ASPHALT DRIVE R141'-6" CURVE CENTER	969038.72	2960937.27
26	NEW ASPHALT DRIVE R64'-11" CURVE CENTER	968997.81	2960906.72
27	NEW ASPHALT DRIVE R51'-0" CURVE CENTER	968920.57	2960820.42
28	NEW ASPHALT DRIVE R34'-8" CURVE CENTER	969075.19	2960878.87
29	NEW ASPHALT DRIVE R20'-10" CURVE CENTER	969074.25	2960948.29
30	NEW CHEMICAL FEED AND ELECTRICAL BUILDING - NW CORNER	968989.79	2960697.90
31	NEW CHEMICAL FEED AND ELECTRICAL BUILDING - NE CORNER	968988.92	2960721.88
32	NEW CHEMICAL FEED AND ELECTRICAL BUILDING - SE CORNER	968964.94	2960721.01
33	NEW CHEMICAL FEED AND ELECTRICAL BUILDING - SW CORNER	968965.80	2960697.03
34	NEW FLOW METER PIT - NW CORNER	969086.87	2960811.58
35	NEW FLOW METER PIT - NE CORNER	969086.69	2960816.58
36	NEW FLOW METER PIT - SE CORNER	969078.70	2960816.29
37	NEW FLOW METER PIT - SW CORNER	969078.88	2960811.29



SITE PLAN
SCALE: 1"=30'-0"
0 30' 60'

EXISTING BUILDING LEGEND	
IDENTIFIER	DESCRIPTION
A	EXISTING HEADWORKS
G	EXISTING AEROBIC DIGESTER
H	EXISTING DRYING BEDS
I	EXISTING SLUDGE DRYING PAD
J	EXISTING PLANT SITE LIFT STATION
K	EXISTING LAB AND GARAGE
L	EXISTING ELEVATED STORAGE TOWER
M	EXISTING GENERATOR

NEW BUILDING LEGEND	
IDENTIFIER	DESCRIPTION
1	NEW SBR TREATMENT FACILITY
2	NEW UV AND CASCADE AERATION STRUCTURE
3	NEW SLUDGE DRYING BEDS
4	NEW EMERGENCY GENERATOR
5	NEW CHEMICAL FEED AND ELECTRICAL BUILDING

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Professional Engineer
No. 10200330
STATE OF INDIANA
Signature: [Signature] Date: 01/24/24

**CITY OF ROCKPORT
SPENCER COUNTY, INDIANA**

**WASTEWATER LTCP PHASE 4
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DIVISION "A" - WWTP

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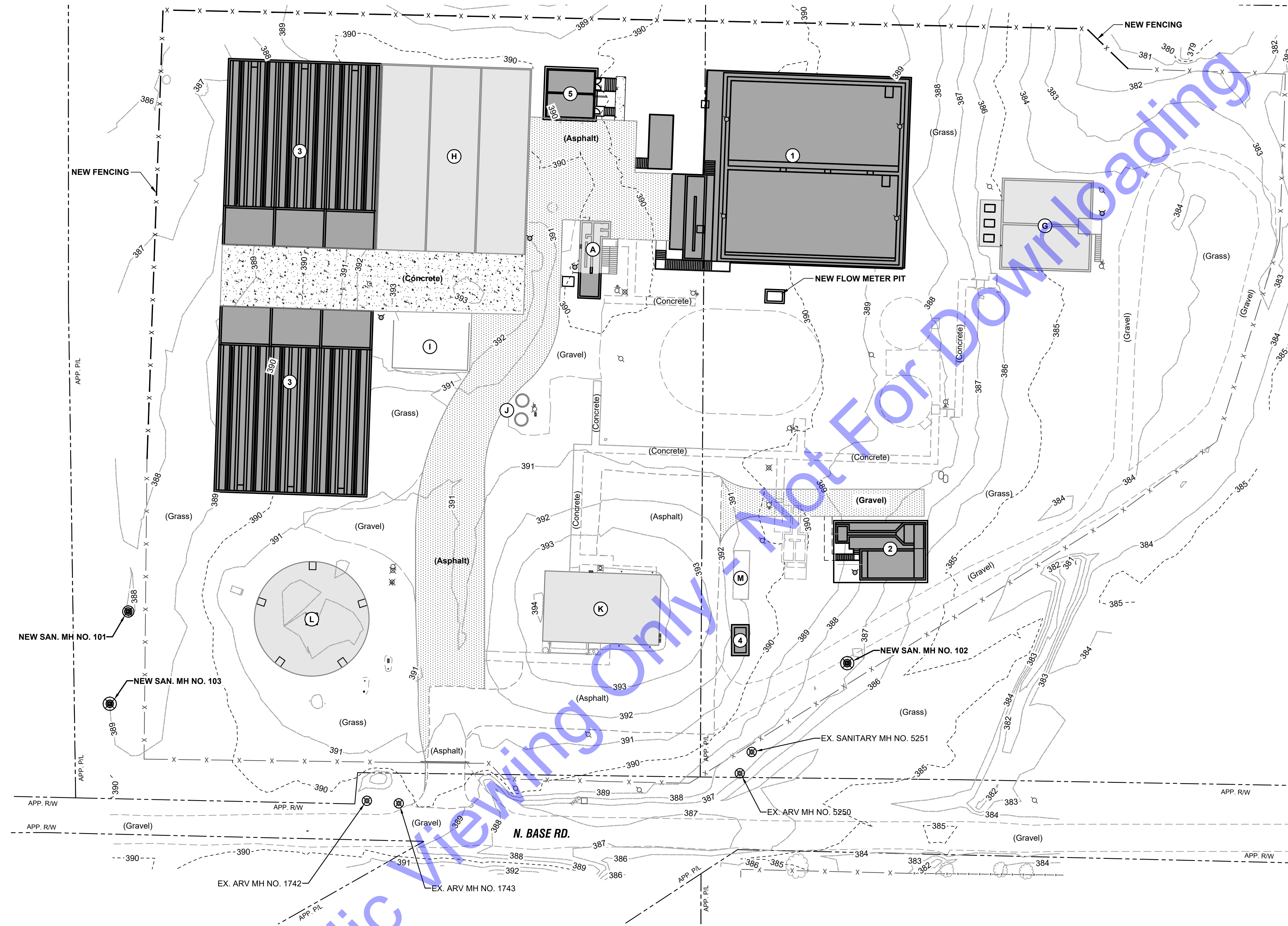
EXISTING WWTP SITE DIMENSIONING PLAN

Drawing No:
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Sheet: 21 OF 177

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SITE PLAN
 SCALE: 1"=30'-0"
 0 30' 60'

EXISTING BUILDING LEGEND	
IDENTIFIER	DESCRIPTION
A	EXISTING HEADWORKS
G	EXISTING AEROBIC DIGESTER
H	EXISTING DRYING BEDS
I	EXISTING SLUDGE DRYING PAD
J	EXISTING PLANT SITE LIFT STATION
K	EXISTING LAB AND GARAGE
L	EXISTING ELEVATED STORAGE TOWER
M	EXISTING GENERATOR

NEW BUILDING LEGEND	
IDENTIFIER	DESCRIPTION
1	NEW SBR TREATMENT FACILITY
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Professional Engineer Seal:
 ERIC T. PARSLEY, Registered Professional Engineer, No. 102003330, State of Indiana.
 Signature: [Signature] Date: 01/24/24

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 SPENCER COUNTY, INDIANA
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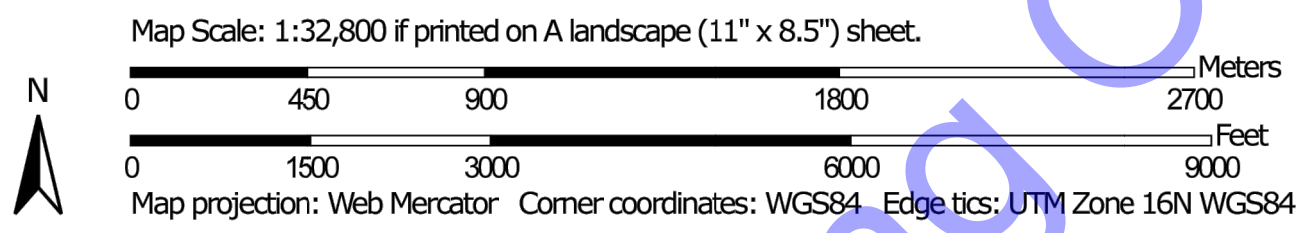
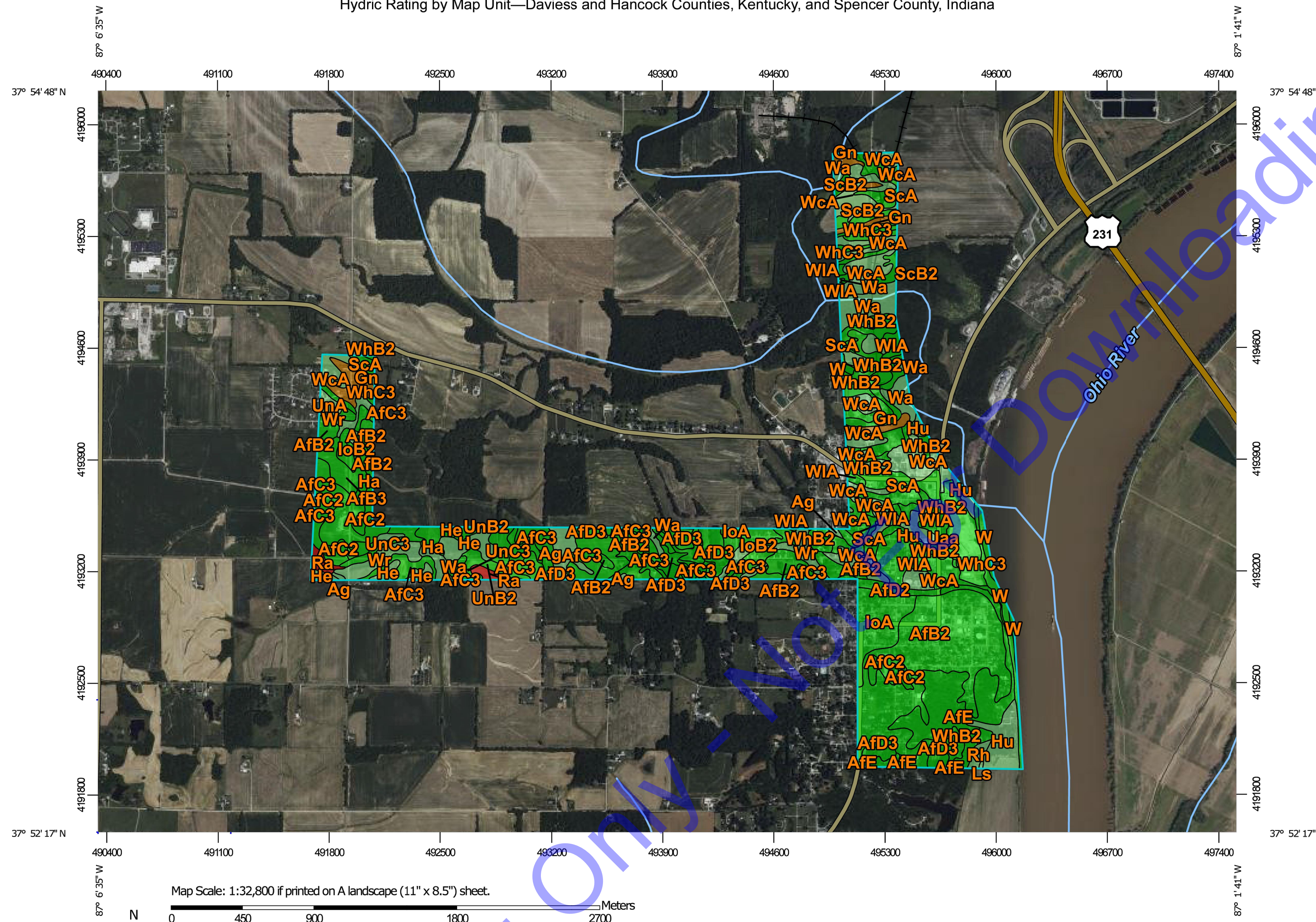
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**EXISTING WWTP SITE
 GRADING
 IMPROVEMENTS PLAN**

Hydric Rating by Map Unit—Davies and Hancock Counties, Kentucky, and Spencer County, Indiana



LEGEND:

- AFB2- Alford silt loam, 2 to 5 percent slopes, eroded
- AFB3- Alford silt loam, 2 to 5 percent slopes, severely eroded
- AFC2- Alford silt loam, 5 to 10 percent slopes, eroded
- AFC3- Alford silt loam, 5 to 10 percent slopes, severely eroded
- AFD2- Alford silt loam, 10 to 18 percent slopes, eroded
- AFD3- Alford silt loam, 10 to 18 percent slopes, severely eroded
- AfE- Alford silt loam, 18 to 35 percent slopes
- Ag- Algiers silt loam, frequently flooded, very brief duration
- Gn- Ginat silt loam
- Ha- Haymond silt loam, frequently flooded, brief duration
- He- Henshaw silt loam
- Hu- Huntington silt loam frequently flooded, brief duration
- IoA- Iona silt loam, 0 to 2 percent slopes
- IoB2- Iona silt loam, 2 to 6 percent slopes, eroded
- Ls- Linside silt loam, frequently flooded, brief duration
- Ra- Ragsdale silt loam
- Rh- Rahm silt loam, occasionally flooded, brief duration
- ScA- Sciotoville silt loam, 0 to 2 percent slopes
- ScB2- Sciotoville silt loam, 2 to 6 percent slopes, eroded
- Uaa- Udorthents, cut and filled
- UnA- Uniontown silt loam, 2 to 6 percent slopes
- UnB2- Uniontown silt loam, 2 to 6 percent slopes, eroded
- UnC3- Uniontown silt loam, 6 to 12 percent slopes, severely eroded
- W- Water
- Wa- Wakeland silt loam, 0 to 5 percent slopes, frequently flooded
- WcA- Weinbach silt loam, 0 to 2 percent slopes
- WhB2- Wheeling loam 2 to 6 percent slopes, eroded
- WhC3- Wheeling loam 6 to 12 percent slopes, severely eroded
- WIA- Wheeling silt loam, 0 to 2 percent slopes
- Wr- Wilbur silt loam frequently flooded, brief duration

SOILS MAP

MAP LEGEND

- Area of Interest (AOI)**
 - [Blue outline] Area of Interest (AOI)
- Soils**
 - Soil Rating Polygons**
 - [Red fill] Hydric (100%)
 - [Orange fill] Hydric (66 to 99%)
 - [Yellow fill] Hydric (33 to 65%)
 - [Light Green fill] Hydric (1 to 32%)
 - [White fill] Not Hydric (0%)
 - [Grey fill] Not rated or not available
 - Soil Rating Lines**
 - [Red line] Hydric (100%)
 - [Orange line] Hydric (66 to 99%)
 - [Yellow line] Hydric (33 to 65%)
 - [Light Green line] Hydric (1 to 32%)
 - [White line] Not Hydric (0%)
 - [Grey line] Not rated or not available
 - Soil Rating Points**
 - [Red square] Hydric (100%)
 - [Orange square] Hydric (66 to 99%)
 - [Yellow square] Hydric (33 to 65%)
 - [Light Green square] Hydric (1 to 32%)
 - [White square] Not Hydric (0%)
 - [Grey square] Not rated or not available
- Water Features**
 - [Blue line] Streams and Canals
- Transportation**
 - [Black line with cross-ticks] Rails
 - [Red and blue line] Interstate Highways
 - [Yellow line] US Routes
 - [Orange line] Major Roads
 - [Grey line] Local Roads
- Background**
 - [Green and brown texture] Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at scales ranging from 1:15,800 to 1:20,000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Davies and Hancock Counties, Kentucky
Survey Area Data: Version 22, Sep 10, 2023

Soil Survey Area: Spencer County, Indiana
Survey Area Data: Version 24, Sep 1, 2023

Your area of interest (AOI) includes more than one soil survey area. These survey areas may have been mapped at different scales, with a different land use in mind, at different times, or at different levels of detail. This may result in map unit symbols, soil properties, and interpretations that do not completely agree across soil survey area boundaries.

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jun 15, 2022—Apr 12, 2023

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

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SOUTH BEND, IN

Professional Engineer Seal for E.T. Parsley, No. 10200330, State of Indiana.
Signature: E.T. Parsley
Date: 01/24/24

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Designed By: JE	Drawn By: DAN	Checked By: EP
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Issue Date: JAN. 2024	Project No: S20107	Scale: AS SHOWN
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STORM WATER POLLUTION PREVENTION PLAN FIGURES

Drawing No:
EC3

Sheet: 25 OF 177

FILE Z:\SHARED\CLIENTS\2000\ROCKPORT\031017 WASTEWATER LTCP PHASE 4B.CADD\CURRENT FILES\DRAWINGS\DIVISION A - WWTP\PROPOSED SITE PLANS.DWG
Sheet: 41/2024 6:56:52 AM Printed: 4/11/2024 6:56:41 AM Current User: Dhan Nigam (dhan.nigam@cei.com)

NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The community map repository should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where Base Flood Elevations (BFEs) and/or Floodways have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) Report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS Report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only landward of 0.0' North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study Report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the floodways were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study Report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by flood control structures. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study Report for information on flood control structures for this jurisdiction.

The projection used in the preparation of this map was Indiana State Plane West Zone (FIPS zone 1302). The horizontal datum was NAD 83, GRS 1980 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same vertical datum. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at http://www.ngs.noaa.gov or contact the National Geodetic Survey at the following address:

NGS Information Services
NOAA, NIMS12
National Geodetic Survey
SSMC-3, #9202
1315 East-West Highway
Silver Spring, Maryland 20910-3282
(301) 713-3242

To obtain current elevation, description, and/or location information for bench marks shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 713-3242, or visit its website at http://www.ngs.noaa.gov

Base map information shown on this FIRM was derived from the 2013 Indiana Orthophotography (IndianaMap Framework Data www.indianamap.org). This information was photogrammetrically compiled at a scale of 1:2400 from aerial photography dated spring 2013.

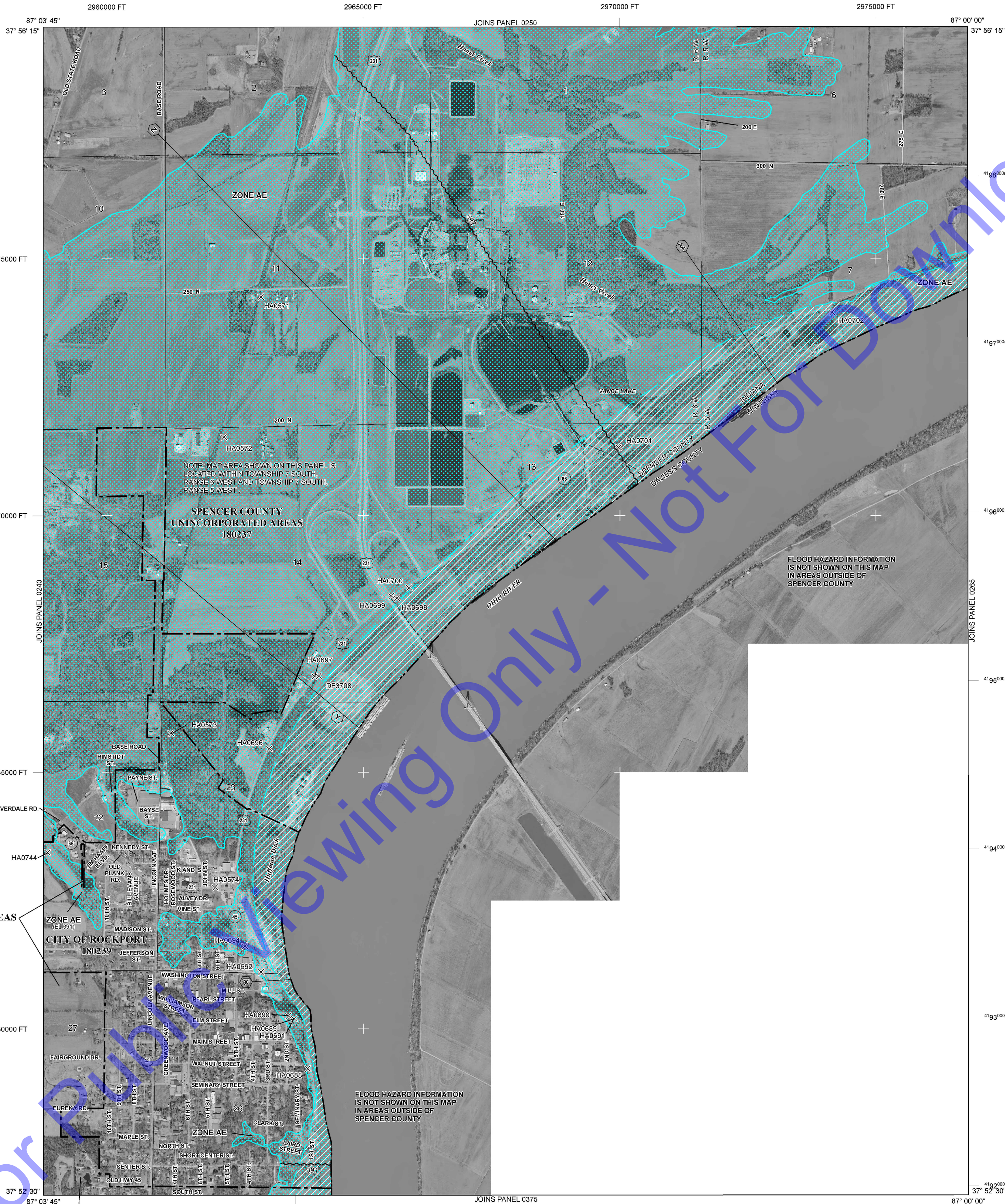
The profile baselines depicted on this map represent the hydraulic modeling baselines that match the flood profiles in the FIS report. As a result of improved topographic data, the profile baseline, in some cases, may deviate significantly from the channel centerline or appear outside the SFHA.

Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed Map Index for an overview map of the county showing the layout of map panels, community map repository addresses, and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

For information on available products associated with this FIRM visit the Map Service Center (MSC) website at http://msc.fema.gov. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be ordered or obtained directly from the MSC website.

If you have questions about this map, how to order products, or the National Flood Insurance Program in general, please call the FEMA Map Information eXchange (FMIX) at 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA website at http://www.fema.gov/business/nfp.



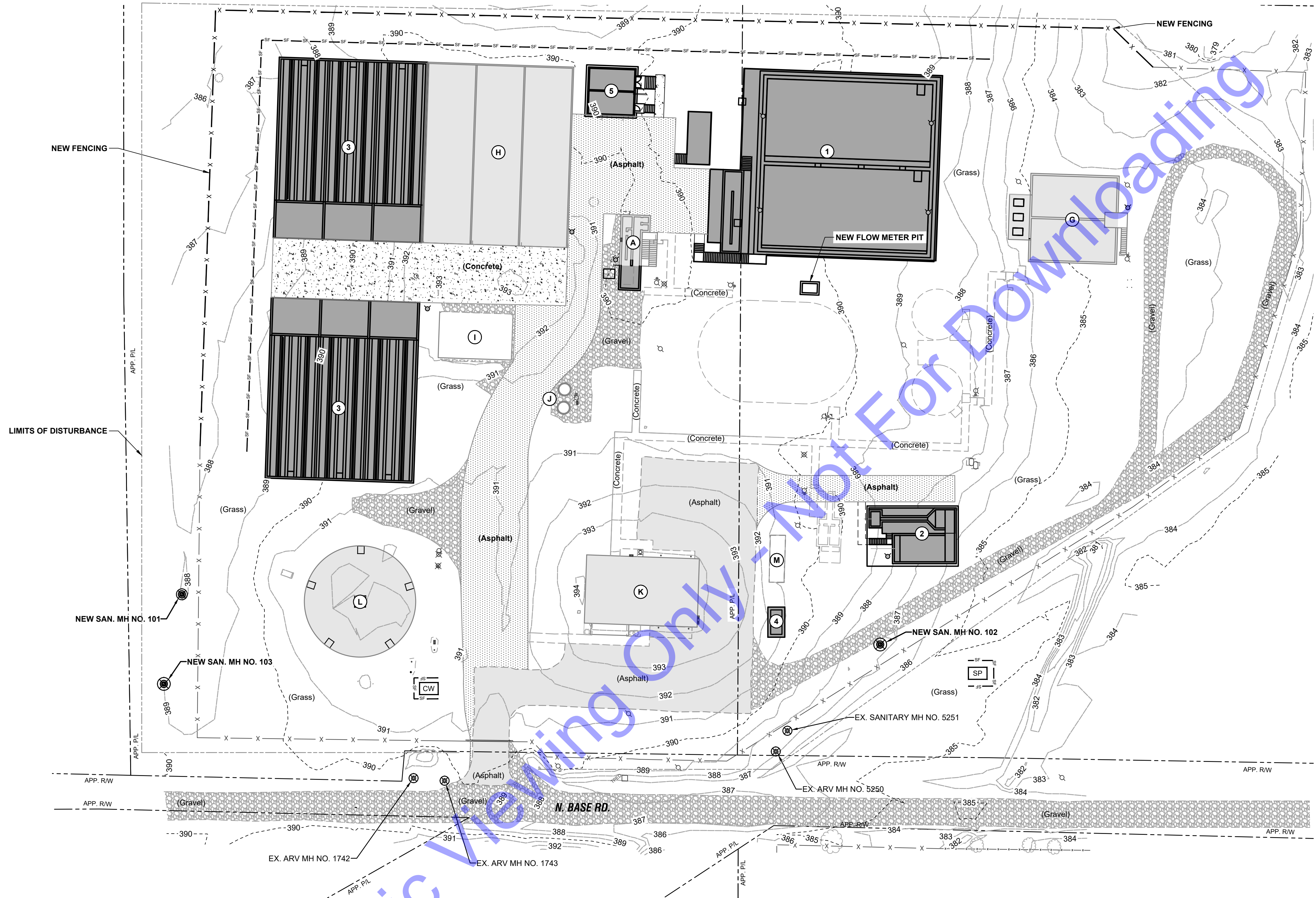
LEGEND
SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD
The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equalled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.
ZONE AE No Base Flood Elevations determined.
ZONE AH Base Flood Elevations determined.
ZONE AD Flood depths of 1 to 3 feet (usually areas of ponding), Base Flood Elevations determined.
ZONE AR Special Flood Hazard Areas formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
ZONE A99 Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
ZONE V Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
FLOODWAY AREAS IN ZONE AE
The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.
OTHER FLOOD AREAS
ZONE X Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.
OTHER AREAS
ZONE X Areas determined to be outside the 0.2% annual chance floodplain.
ZONE D Areas in which flood hazards are undetermined, but possible.
COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS
OTHERWISE PROTECTED AREAS (OPAs)
CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.
1% Annual Chance Floodplain Boundary
0.2% Annual Chance Floodplain Boundary
Floodway boundary
Zone D boundary
CBRS and OPA boundary
Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths, or flood velocities.
Base Flood Elevation line and value; elevation in feet*
Base Flood Elevation value where uniform within zone; elevation in feet*
*Referenced to the North American Vertical Datum of 1988
A Cross section line
B Transient line
C Culvert
D Bridge
Geographic coordinates referenced to the North American Datum of 1983 (NAD 83) Western Hemisphere
3100000 FT
5000-foot ticks: Indiana State Plane West Zone (FIPS Zone 1302), Transverse Mercator projection
1000-meter Universal Transverse Mercator grid values, zone 18Q1
Bench mark (see explanation in Notes to Users section of this FIRM panel)
M 5.1
River Mile
Map Repositories
Refer to Map Repositories list on Map Index
EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP
MAY 18, 2015
EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL
For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.
To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-438-6620.

PANEL 0245C
FIRM
FLOOD INSURANCE RATE MAP
SPENCER COUNTY, INDIANA AND INCORPORATED AREAS
PANEL 245 OF 375
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)
CONTAINS:
COMMUNITY NUMBER PANEL SUFFIX
ROCKPORT, CITY OF 180239 0245 C
SPENCER COUNTY 180237 0245 C
Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.
MAP NUMBER 18147C0245C
EFFECTIVE DATE MAY 18, 2015
Federal Emergency Management Agency

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Professional Engineer
No. 10200330
STATE OF INDIANA
Signature Date 01/24/24
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SPENCER COUNTY, INDIANA
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Issue Date: JAN. 2024 Project No: S20107 Scale: AS SHOWN
STORM WATER POLLUTION PREVENTION PLAN FIGURES
Drawing No: EC4
Sheet: 26 OF 177

FILE: Z:\SHARED\CLIENTS\4363\07 WASTE WATER LTCP PHASE 4B\CADD\CURRENT FILES\DRAWINGS\DIVISION A - WWTP\05-PROPOSED SITE PLANS.DWG
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FLOODPLAIN MAP



SITE PLAN
 SCALE: 1"=30'-0"
 0 30' 60'

LEGEND:

- PERMANENT SEEDING/MULCHING
- SILT FENCE
- INLET PROTECTION
- CONCRETE WASHOUT STATION
- SOIL STOCKPILE
- SILT CHECK
- CHECK DAM
- CHECK BASIN INSERT

EXISTING BUILDING LEGEND

IDENTIFIER	DESCRIPTION
A	EXISTING HEADWORKS
G	EXISTING AEROBIC DIGESTER
H	EXISTING DRYING BEDS
I	EXISTING SLUDGE DRYING PAD
J	EXISTING PLANT SITE LIFT STATION
K	EXISTING LAB AND GARAGE
L	EXISTING ELEVATED STORAGE TOWER
M	EXISTING GENERATOR

NEW BUILDING LEGEND

IDENTIFIER	DESCRIPTION
1	NEW SBR TREATMENT FACILITY
2	NEW UV AND CASCADE AERATION STRUCTURE
3	NEW SLUDGE DRYING BEDS
4	NEW EMERGENCY GENERATOR
5	NEW CHEMICAL FEED AND ELECTRICAL BUILDING

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Professional Engineer Seal:
 ERIC T. PARSLEY
 No. 102003330
 STATE OF INDIANA
 PROFESSIONAL ENGINEER

Signature: *E.T. Parsley* Date: 01/24/24

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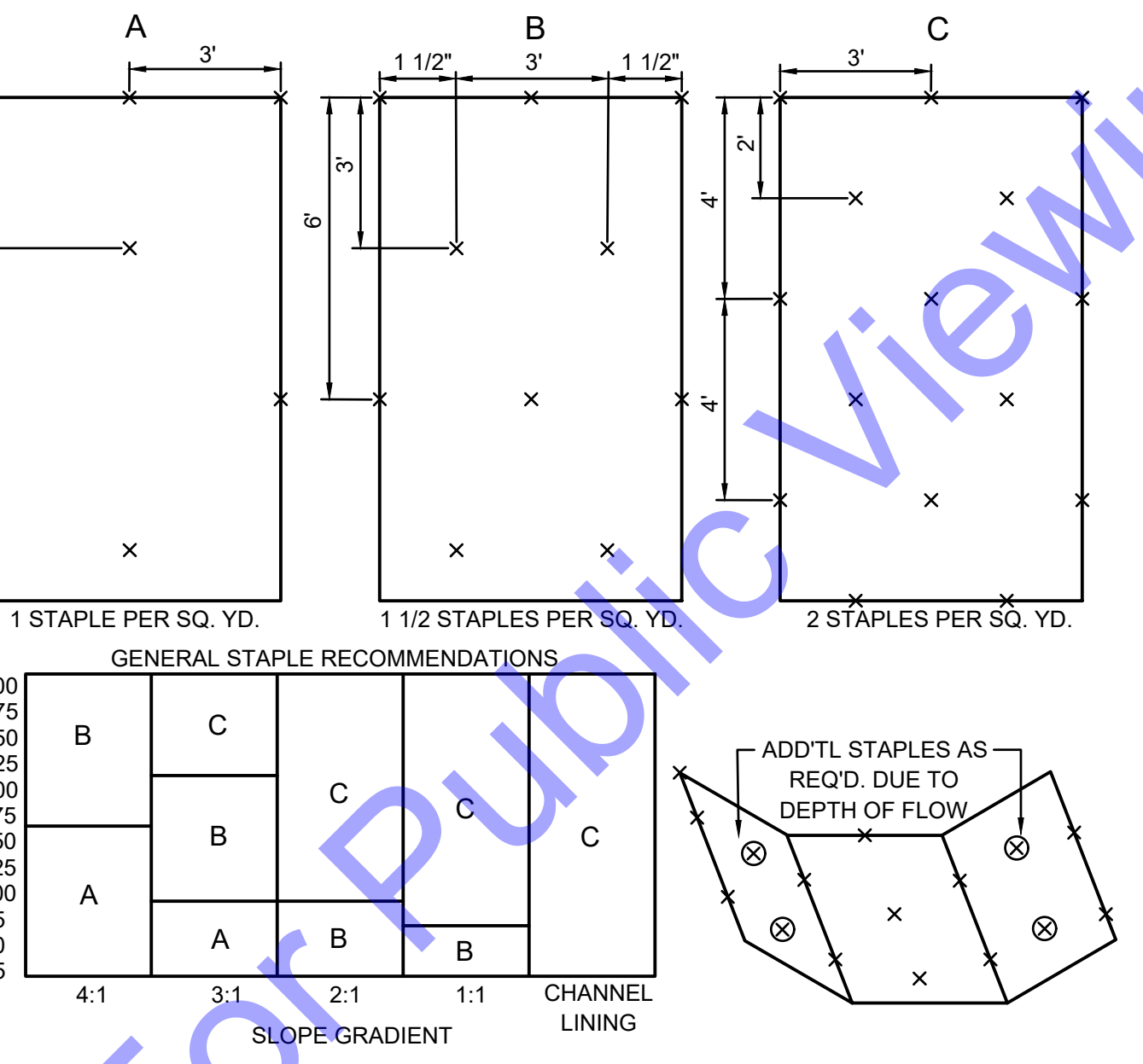
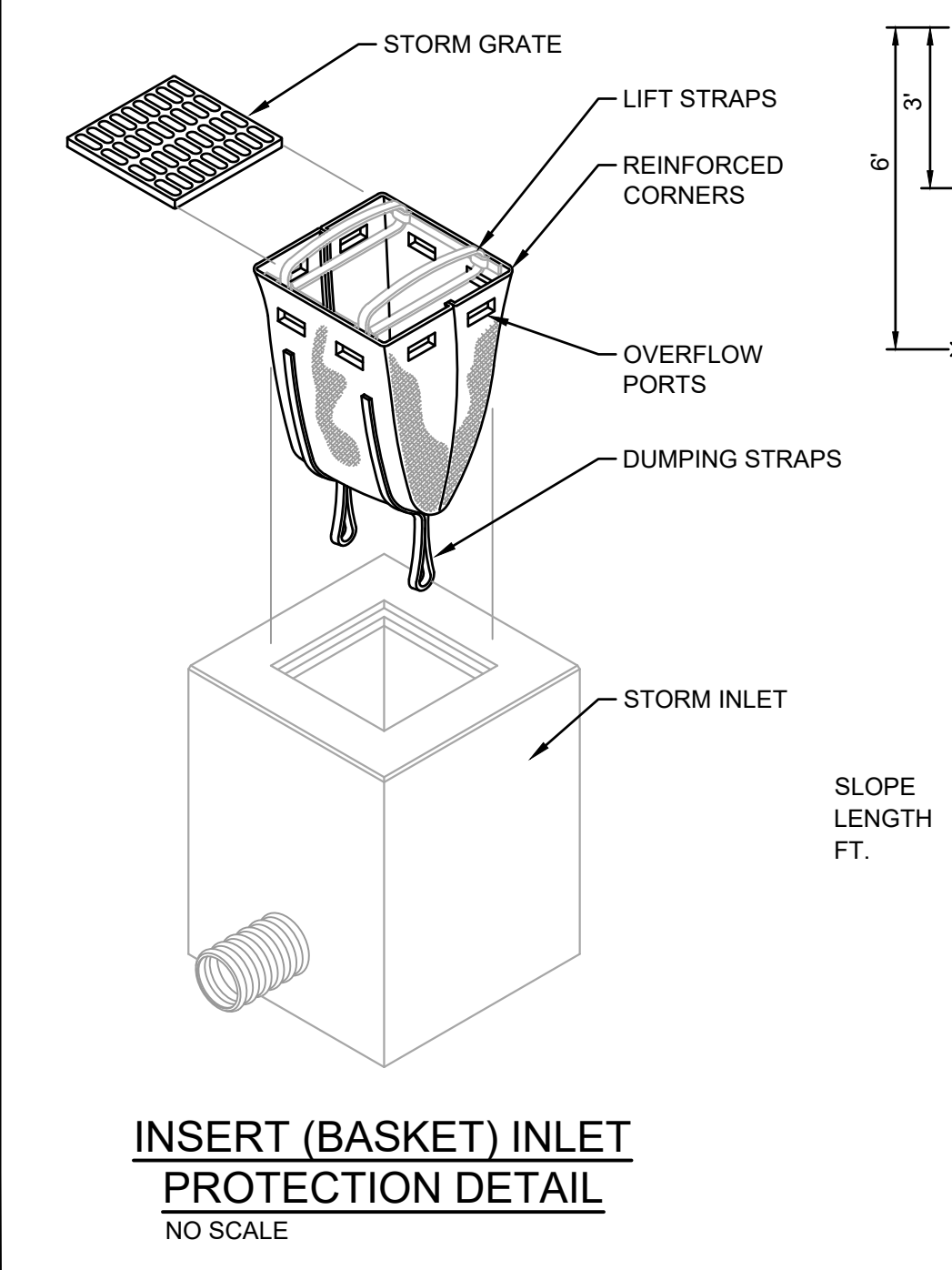
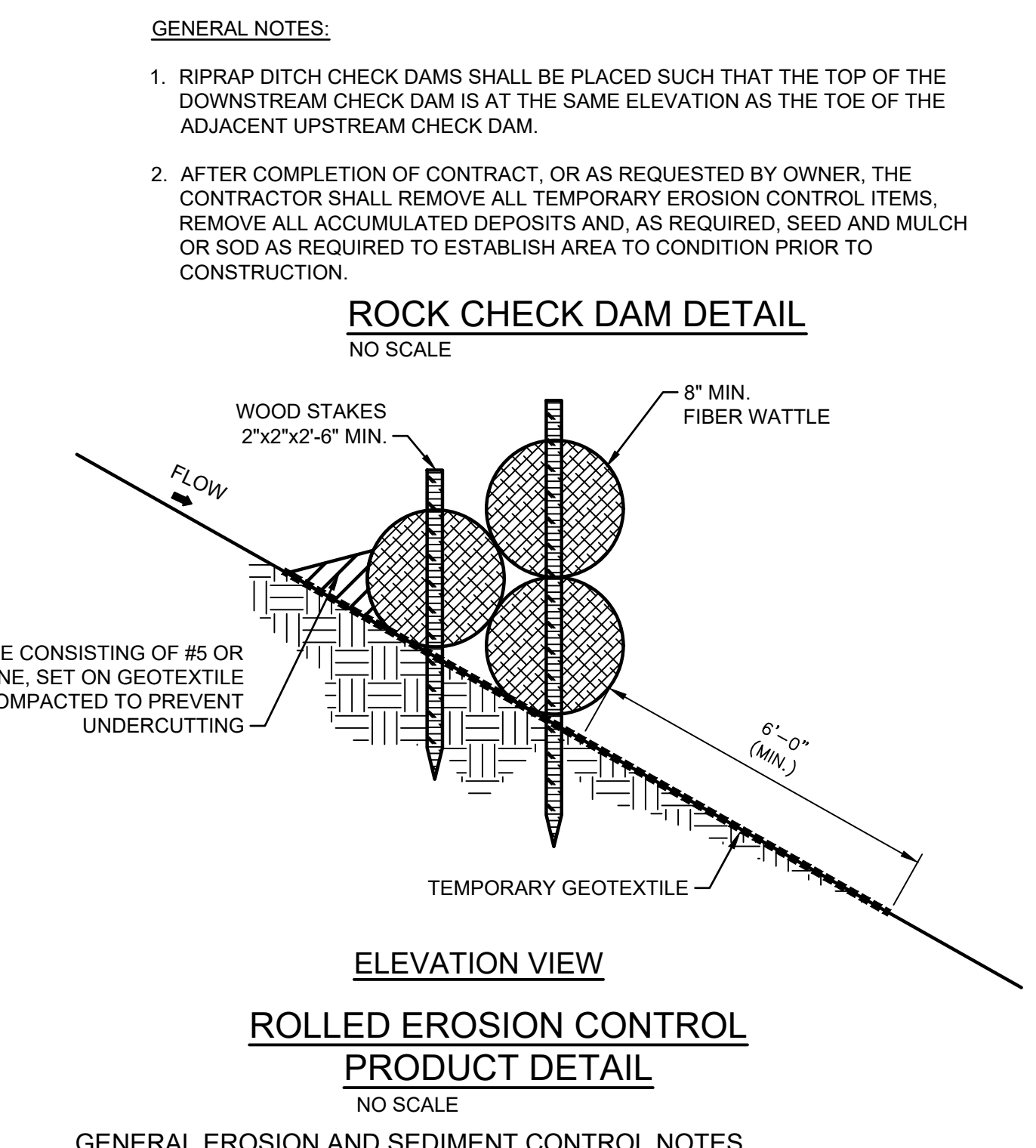
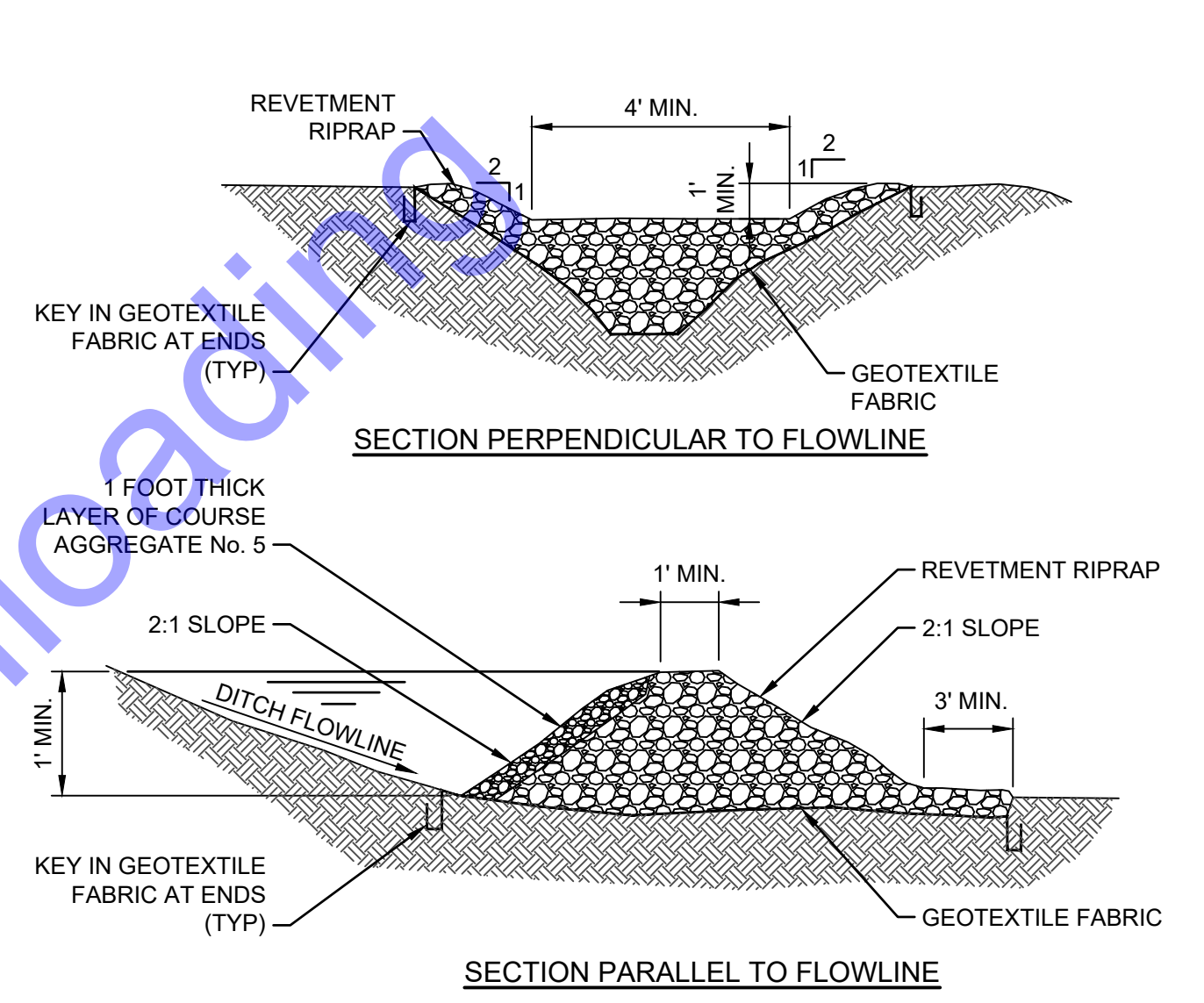
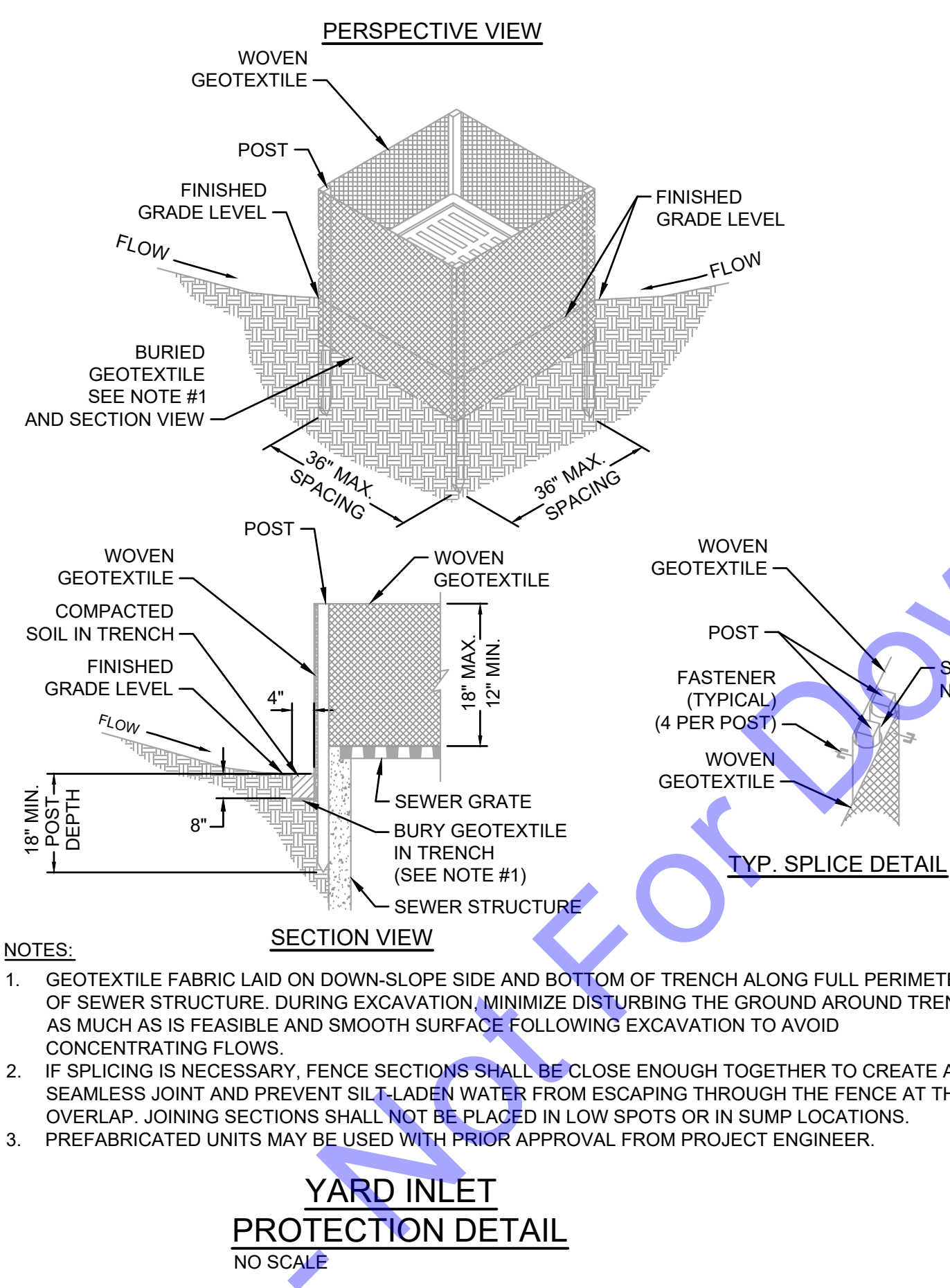
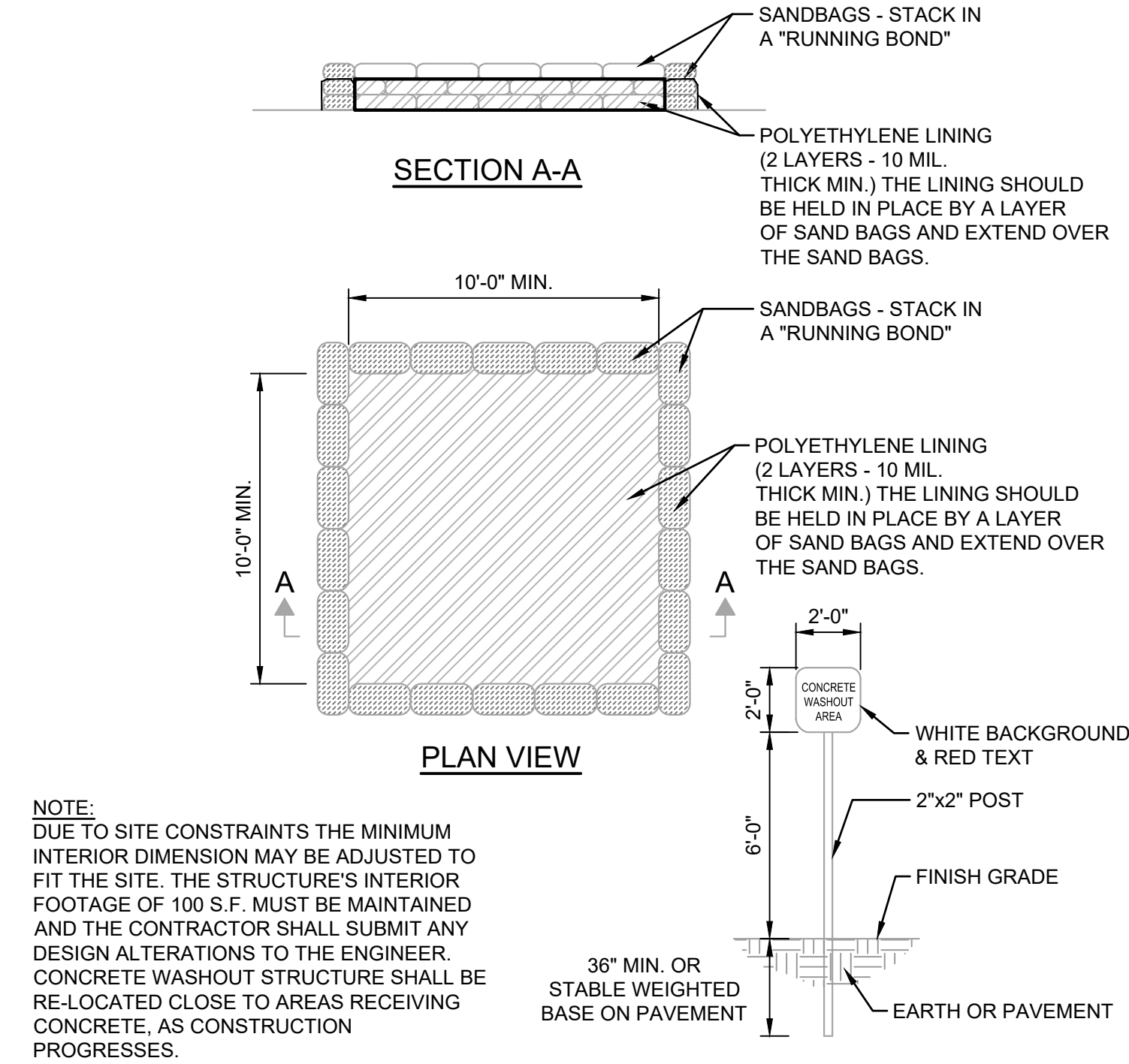
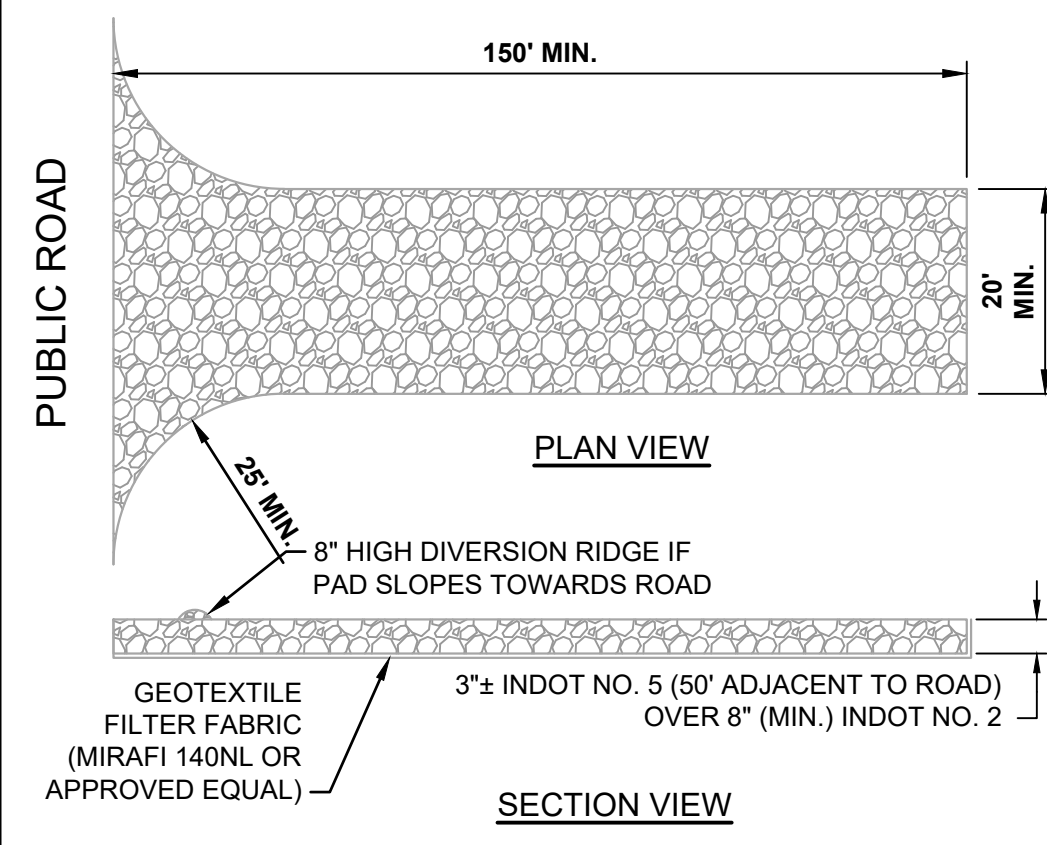
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Designed By: JE	Drawn By: DAN	Checked By: EP
Issue Date: JAN. 2024	Project No: S20107	Scale: AS SHOWN

STORM WATER POLLUTION PREVENTION PLAN EROSION CONTROL PLAN



SPECIFICATIONS

EFFECTIVE LIFE

- THE FUNCTIONAL LIFE OF AN EROSION CONTROL BLANKET IS DEPENDENT ON THE MATERIALS USED.

ANCHORING

- STAPLES, PINS OR STAKES USED TO PREVENT MOVEMENT OR DISPLACEMENT OF BLANKET. (FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR SPECIFIC APPLICATIONS.)

MATERIALS

- ORGANIC (STRAW, EXCELSIOR, WOVEN PAPER, COCONUT FIBER, ETC.) OR SYNTHETIC MULCH INCORPORATED WITH A POLYPROPYLENE, NATURAL FIBER OR SIMILAR NETTING MATERIAL. (THE NETTING MAY BE BIODEGRADABLE, PHOTODEGRADABLE OR PERMANENT.)

NOTE: SOME EROSION CONTROL BLANKET NETTINGS MAY POSE A THREAT TO CERTAIN SPECIES OF WILDLIFE IF THEY BECOME ENTANGLED IN THE NETTING MATRIX.

- SIX TO 12-INCH STAPLES, PINS, OR STAKES.

INSTALLATION

- SELECT THE TYPE AND WEIGHT OF EROSION CONTROL BLANKET TO FIT THE SITE CONDITIONS (E.G., SLOPE, CHANNEL, FLOW VELOCITY) PER THE MANUFACTURER'S RECOMMENDATIONS.
- PREPARE THE SEEDBED, ADD SOIL AMENDMENTS, AND PERMANENTLY SEED THE AREA IMMEDIATELY FOLLOWING SEEDBED PREPARATION.
- LAY EROSION CONTROL BLANKETS ON THE SEEDBED SO THAT THEY ARE IN CONTINUOUS CONTACT WITH THE SOIL WITH EACH UP-SLOPE OR UP-STREAM BLANKET OVERLAPPING THE DOWN-SLOPE OR DOWN-STREAM BLANKET BY AT LEAST EIGHT INCHES, OR FOLLOW MANUFACTURER'S RECOMMENDATIONS.
- TUCK THE UPPERMOST EDGE OF THE UPPER BLANKETS INTO A CHECK SLOT (SLIT TRENCH), BACKFILL WITH SOIL AND TAMP DOWN. IN CERTAIN APPLICATIONS, THE MANUFACTURER MAY REQUIRE ADDITIONAL CHECK SLOTS AT SPECIFIC LOCATIONS DOWN SLOPE FROM THE UPPERMOST EDGE OF THE UPPER BLANKETS.
- ANCHOR THE BLANKETS IN PLACE BY DRIVING STAPLES, PINS, OR STAKES THROUGH THE BLANKET AND INTO THE UNDERLYING SOIL. FOLLOW AN ANCHORING PATTERN APPROPRIATE FOR THE SITE CONDITIONS AND AS RECOMMENDED BY THE MANUFACTURER.

MAINTENANCE

- INSPECT WITHIN 24 HOURS OF EACH RAIN EVENT AND AT LEAST ONCE EVERY SEVEN CALENDAR DAYS.
- CHECK FOR EROSION OR DISPLACEMENT OF THE BLANKET.
- IF ANY AREA SHOWS EROSION, PULL BACK THAT PORTION OF THE BLANKET COVERING THE ERODED AREA, ADD SOIL AND TAMP, RESEED THE AREA, REPLACE AND STAPLE THE BLANKET.

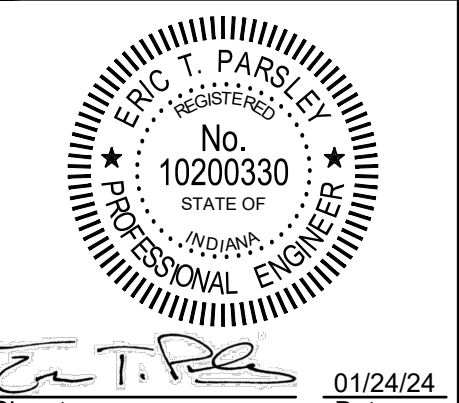
NOTES

CHANNEL LININGS UTILIZE STAPLE PATTERN "C" WITH ADDITIONAL STAPLES ON SIDE SLOPES AT PROJECTED WATER LINE.

STAPLE PATTERNS APPLY TO ALL NORTH AMERICAN GREEN EROSION CONTROL BLANKETS. STAPLE PATTERNS MAY VARY DEPENDING UPON SOIL TYPE AND AVERAGE RAINFALL.

AT SLOPE LENGTHS GREATER THAN 300 FEET OR WHERE DRAINAGE OVER LARGE AREAS IS DIRECTED ONTO THE BLANKETS, STAPLE PATTERN "C" SHOULD BE UTILIZED.

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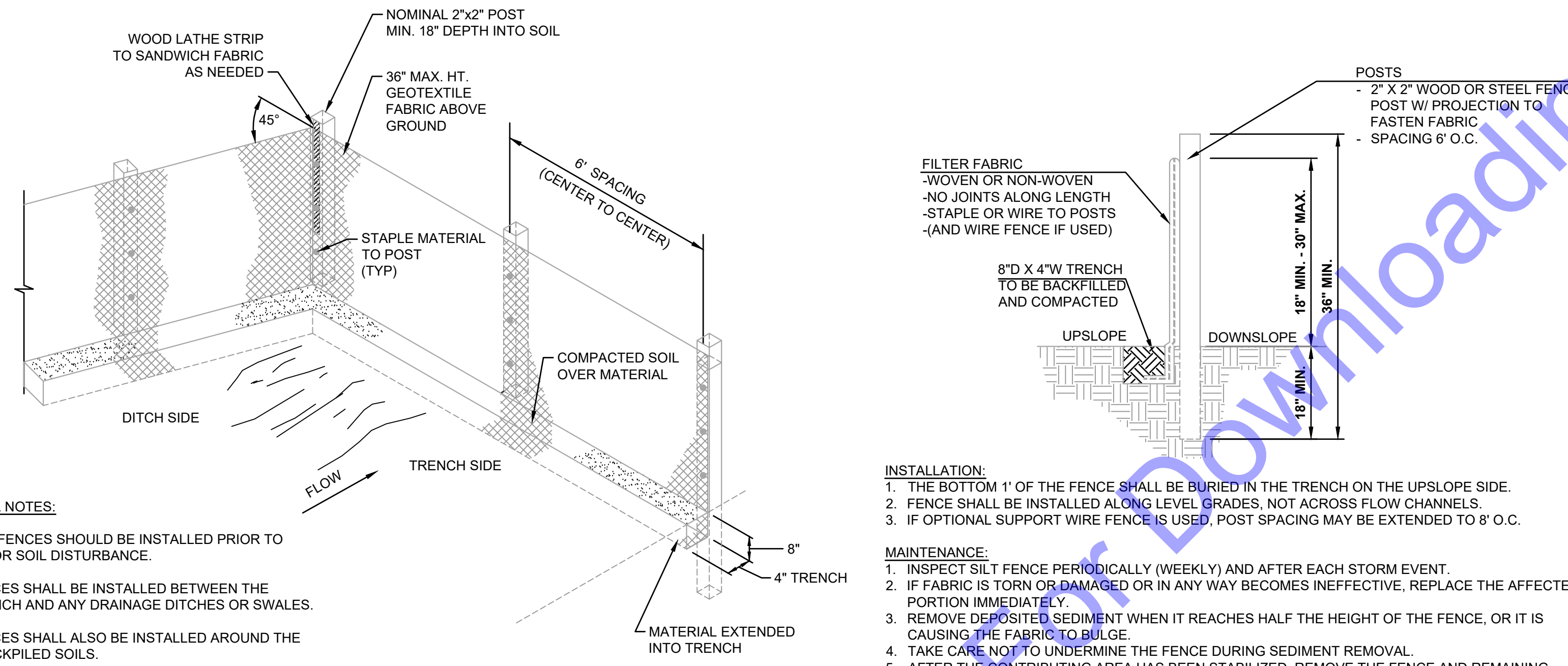
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STORM WATER POLLUTION PREVENTION PLAN EROSION CONTROL DETAILS



GENERAL NOTES:

- SILT FENCES SHOULD BE INSTALLED PRIOR TO MAJOR SOIL DISTURBANCE.
- FENCES SHALL BE INSTALLED BETWEEN THE TRENCH AND ANY DRAINAGE DITCHES OR SWALES.
- FENCES SHALL ALSO BE INSTALLED AROUND THE STOCKPILED SOILS.
- THE GEOTEXTILE SHALL BE FREE FROM DEFECTS, TEARS, PUNCTURES, FLAWS, DETERIORATION OR DAMAGE INCURRED DURING MANUFACTURE, TRANSPORTATION, STORAGE, OR INSTALLATION.
- TERMINAL ENDS OF THE SILT FENCE SHALL EXTEND UPSLOPE TO PREVENT BYPASS AROUND THE ENDS.

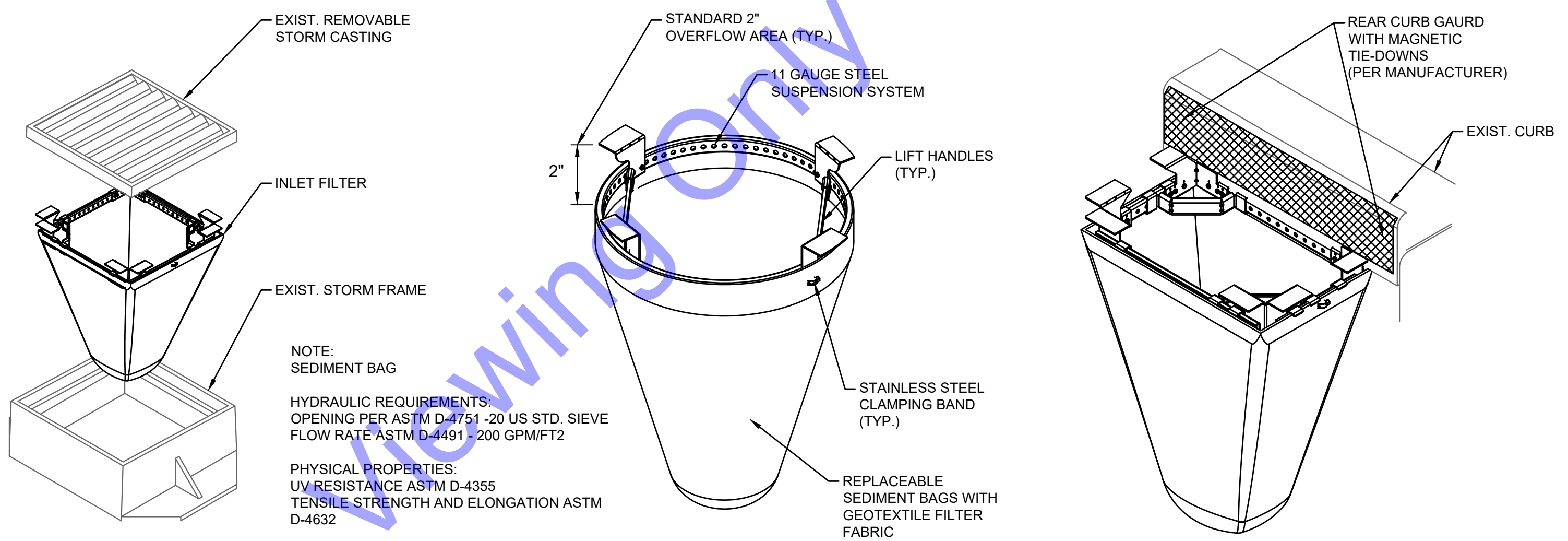
INSTALLATION:

- THE BOTTOM 1" OF THE FENCE SHALL BE BURIED IN THE TRENCH ON THE UPSLOPE SIDE.
- FENCE SHALL BE INSTALLED ALONG LEVEL GRADES, NOT ACROSS FLOW CHANNELS.
- IF OPTIONAL SUPPORT WIRE FENCE IS USED, POST SPACING MAY BE EXTENDED TO 8' O.C.

MAINTENANCE:

- INSPECT SILT FENCE PERIODICALLY (WEEKLY) AND AFTER EACH STORM EVENT.
- IF FABRIC IS TORN OR DAMAGED OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED PORTION IMMEDIATELY.
- REMOVE DEPOSITED SEDIMENT WHEN IT REACHES HALF THE HEIGHT OF THE FENCE, OR IT IS CAUSING THE FABRIC TO BULGE.
- TAKE CARE NOT TO UNDERMINE THE FENCE DURING SEDIMENT REMOVAL.
- AFTER THE CONTRIBUTING AREA HAS BEEN STABILIZED, REMOVE THE FENCE AND REMAINING SEDIMENT, BRING THE DISTURBED AREA TO GRADE, AND STABILIZE.

SILT FENCE DETAIL
NOT TO SCALE



TYPICAL INSTALLATION UNDER INLET

ROUND/SQUARE INLET FILTER SYSTEM

COMBINATION INLET FILTER FOR CURB HOODS

GENERAL NOTES:

- TO BE INSTALLED AT EXISTING STANDARD INLET GRATES IN PAVED AREAS DOWNSTREAM OF EXCAVATION.
- INSTALL INLET FILTER ONTO LOAD BEARING LIP OF CASTING OR CONCRETE STRUCTURE AND PER MANUFACTURER'S RECOMMENDATIONS.
- FOR CURB BOX INLETS, CURB BACK MUST HAVE FILTER ATTACHED PER MANUFACTURER'S RECOMMENDATION OR CONTRACTOR MUST CREATE A DAM TO DIRECT RUNOFF INTO THE SEDIMENT BAG.

INLET FILTER EROSION CONTROL DETAIL FOR STANDARD SIZED STORM STRUCTURES
NOT TO SCALE

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Professional Engineer Seal: E.R.C.T. PARS ET REGISTERED No. 10200330 STATE OF INDIANA PROFESSIONAL ENGINEER
Signature: [Signature] Date: 01/24/24

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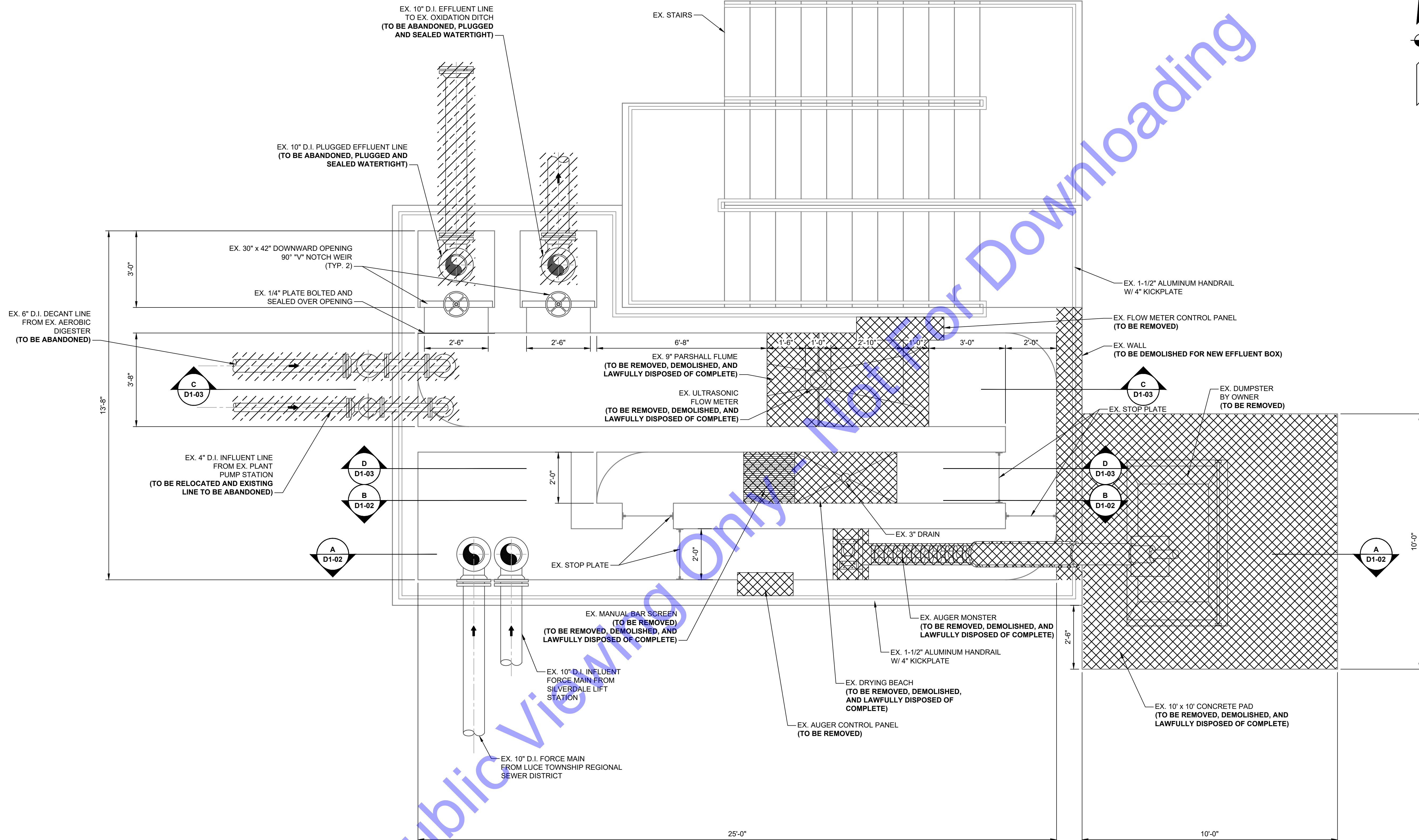
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STORM WATER POLLUTION PREVENTION PLAN EROSION CONTROL DETAILS

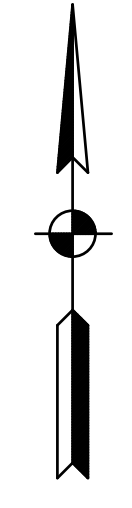
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PLAN
 SCALE: 1/2"=1'-0"
 0 1' 2' 4'



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 No. 102003330
 STATE OF INDIANA
 PROFESSIONAL ENGINEER
 Signature: *Eric T. Parsley* Date: 01/24/24

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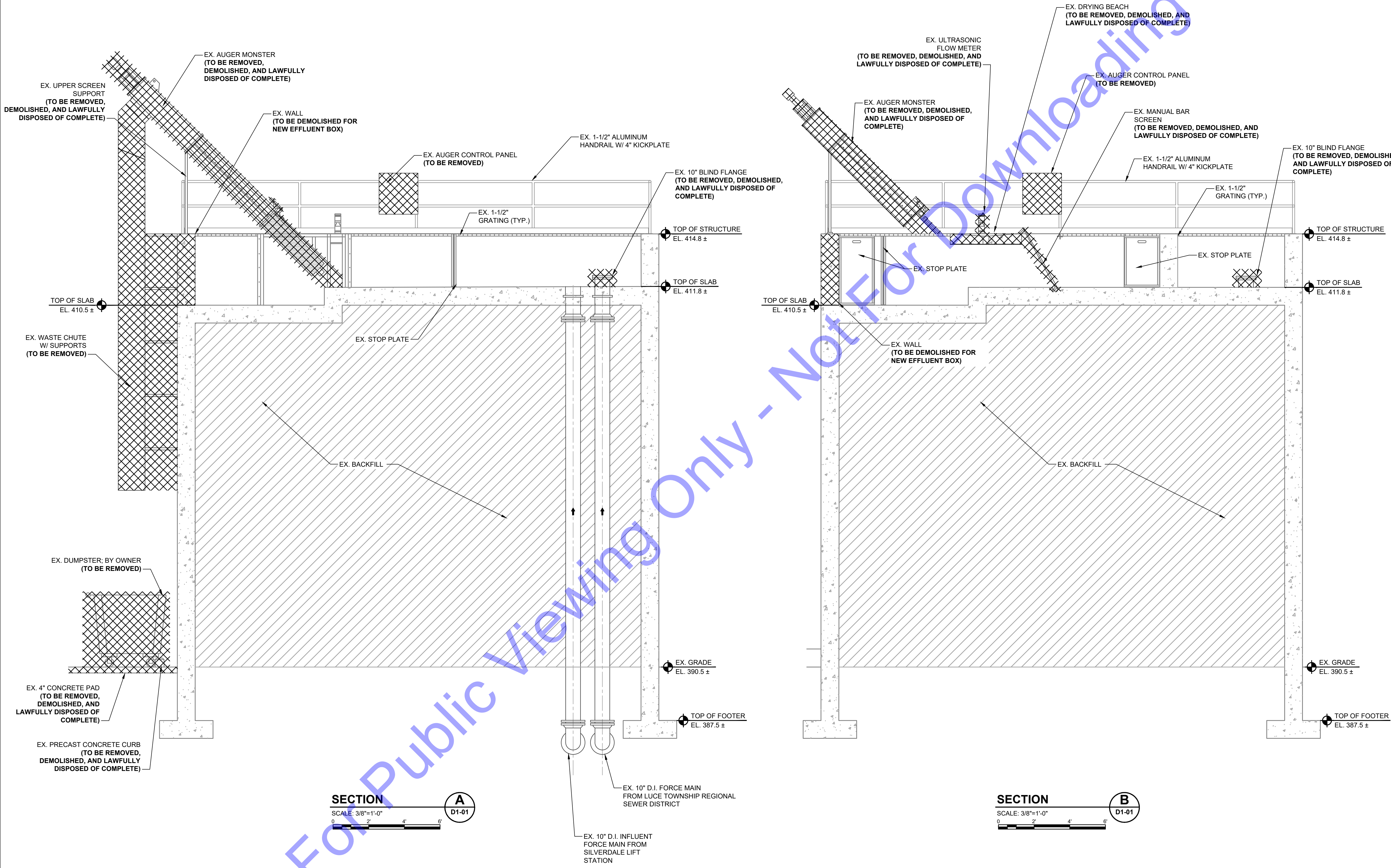
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Designed By:	Drawn By:	Checked By:
JE	DAN	EP
Issue Date:	Project No:	Scale:
JAN. 2024	S20107	AS SHOWN

EXISTING HEADWORKS - DEMOLITION PLAN VIEW

Drawing No:
D1-01
 Sheet: 30 OF 177

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SECTION A
 SCALE: 3/8"=1'-0"
 D1-01

SECTION B
 SCALE: 3/8"=1'-0"
 D1-01

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 ERIC T. PARS, P.E.
 No. 10200330
 STATE OF INDIANA
 PROFESSIONAL ENGINEER

Signature: *Eric T. Pars* Date: 01/24/24

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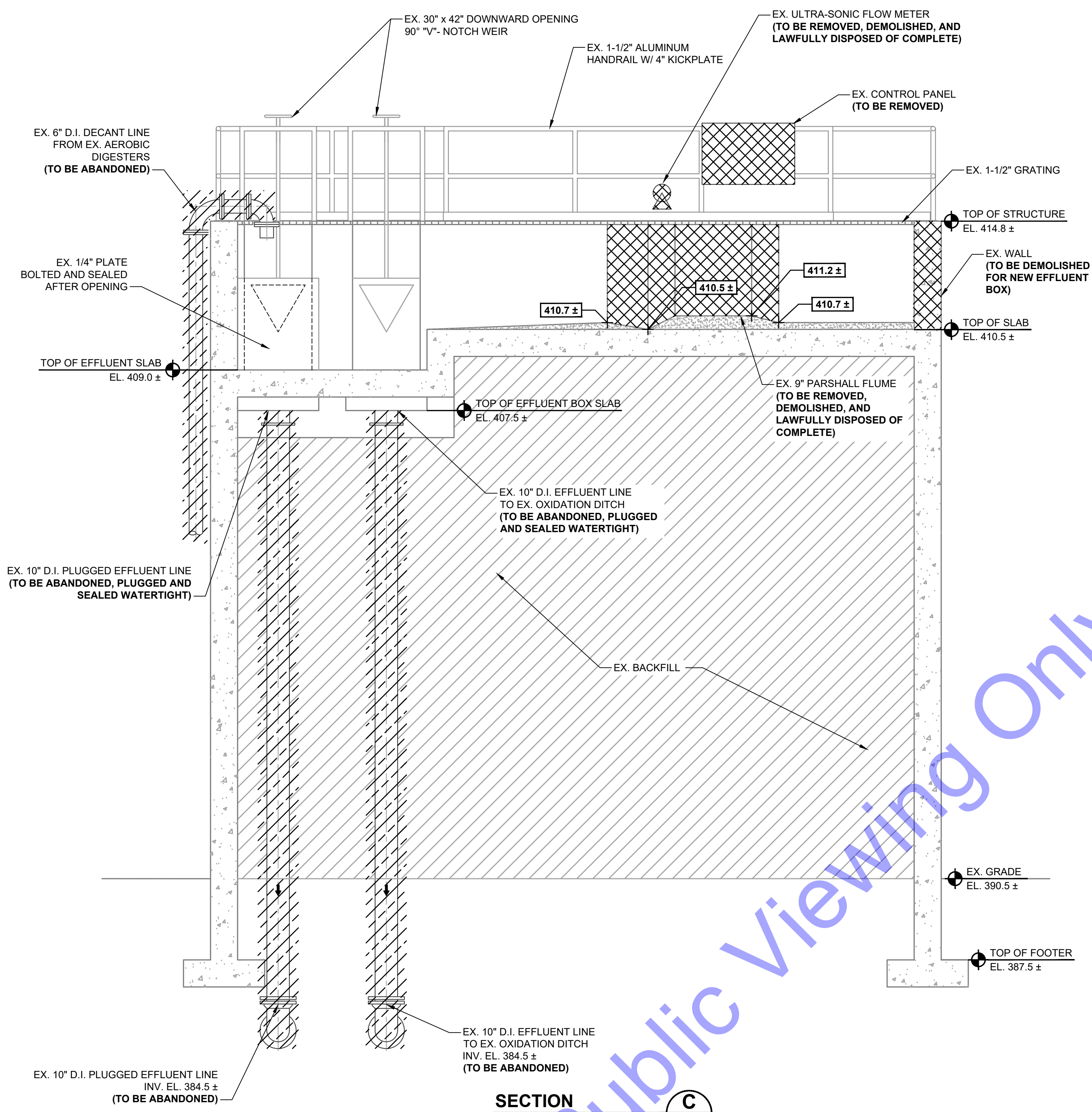
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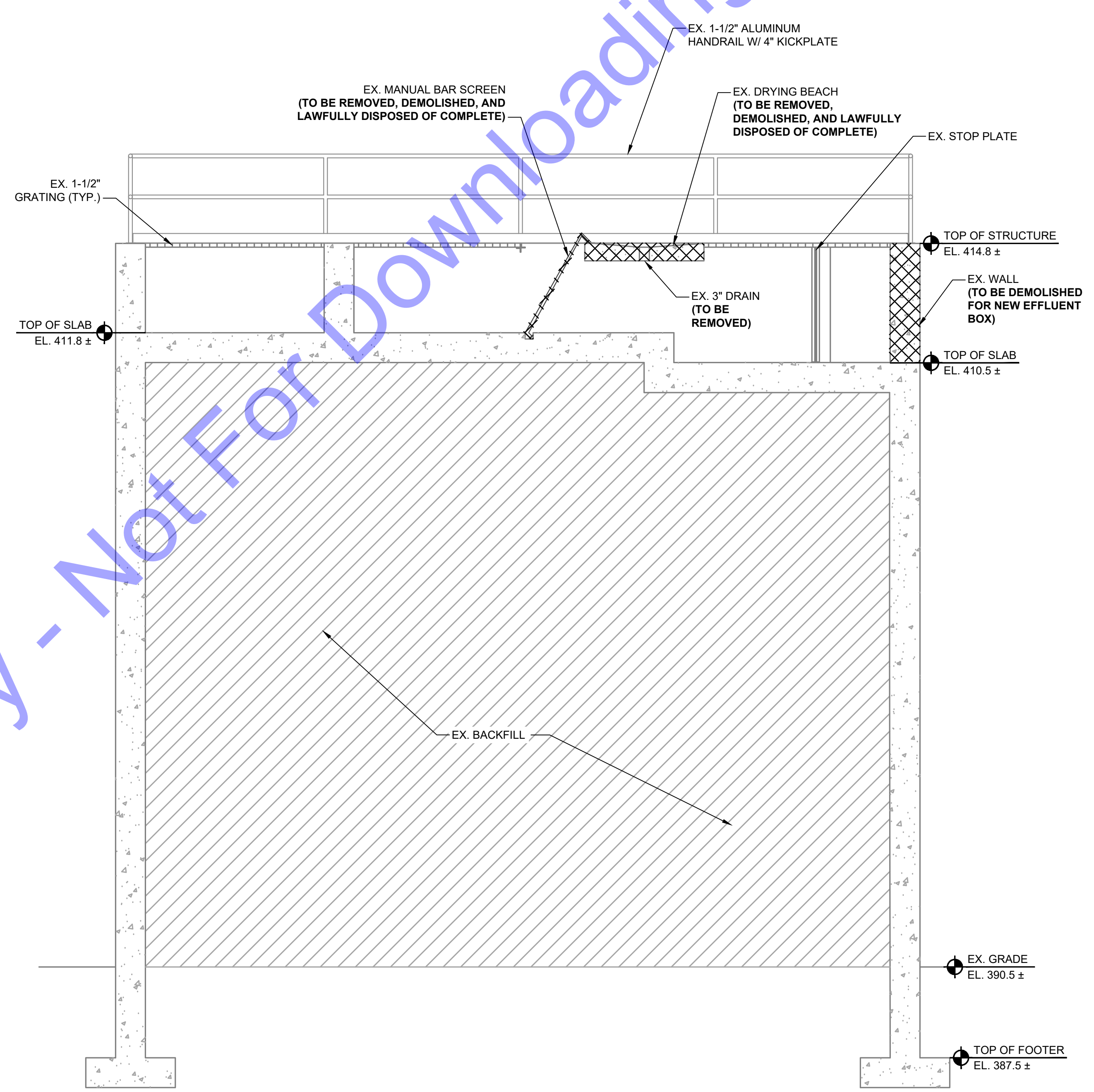
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Issue Date:	Project No.:	Scale:
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EXISTING HEADWORKS - DEMOLITION SECTION VIEWS

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SECTION C
 SCALE: 3/8"=1'-0"
 D1-01



SECTION D
 SCALE: 3/8"=1'-0"
 D1-01

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Professional Engineer Seal:
 No. 102003330
 STATE OF INDIANA
 PROFESSIONAL ENGINEER
 Signature: [Signature]
 Date: 01/24/24

CITY OF ROCKPORT, INDIANA
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WASTEWATER LTCP PHASE 4 PROJECT
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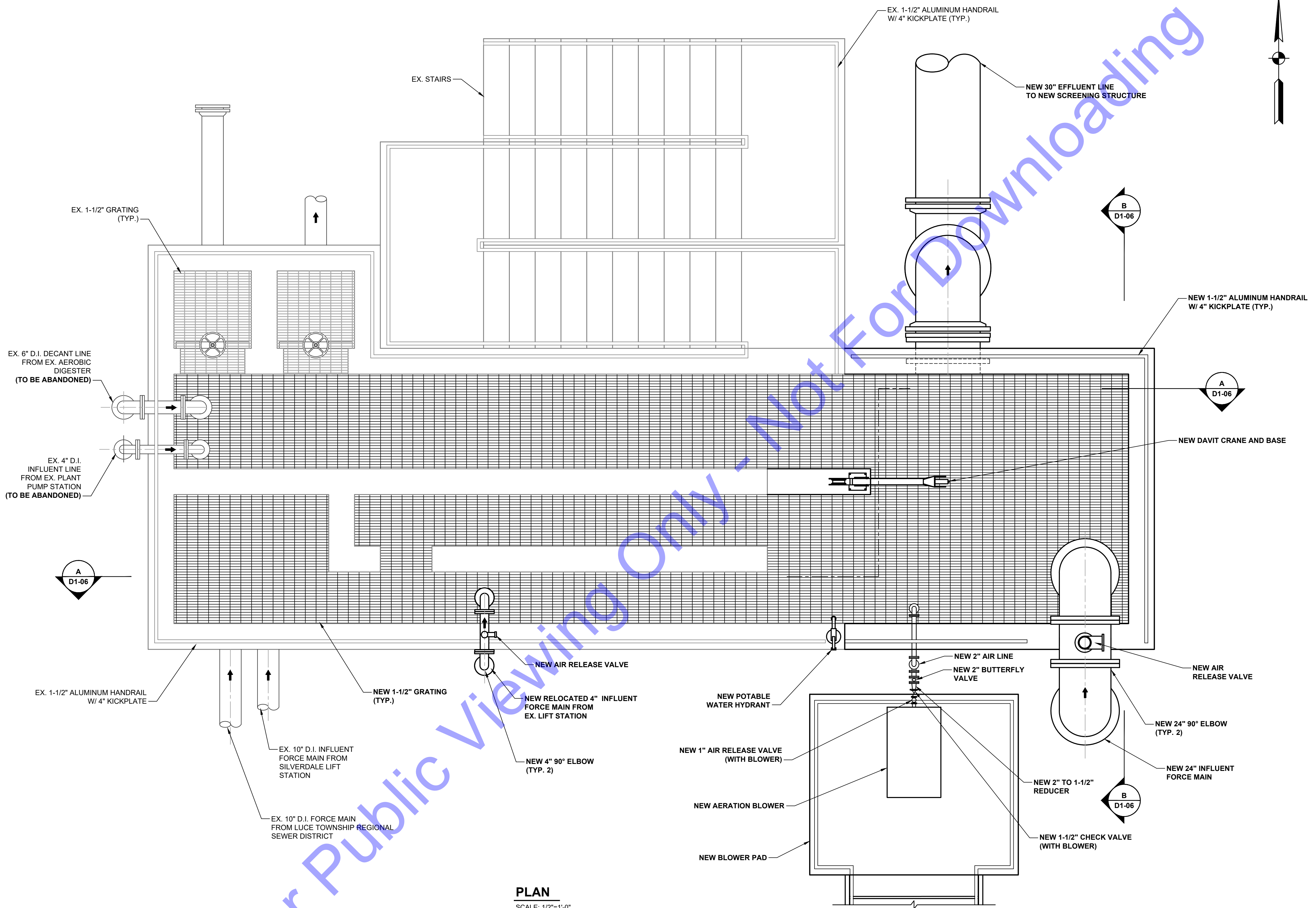
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By	

Designed By:	Drawn By:	Checked By:
JE	DAN	EP
Issue Date:	Project No:	Scale:
JAN. 2024	S20107	AS SHOWN

EXISTING HEADWORKS - DEMOLITION SECTION VIEW

Drawing No:
D1-03
 Sheet: 32 OF 177

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PLAN
 SCALE: 1/2"=1'-0"
 0 1' 2' 4'

GENERAL NOTES:
 1. CONTRACTOR TO PROVIDE TEMPORARY BAR SCREEN

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Professional Engineer Seal for E.R.C. T. PARS ET AL., No. 102003330, State of Indiana.
 Signature: [Signature] Date: 01/24/24

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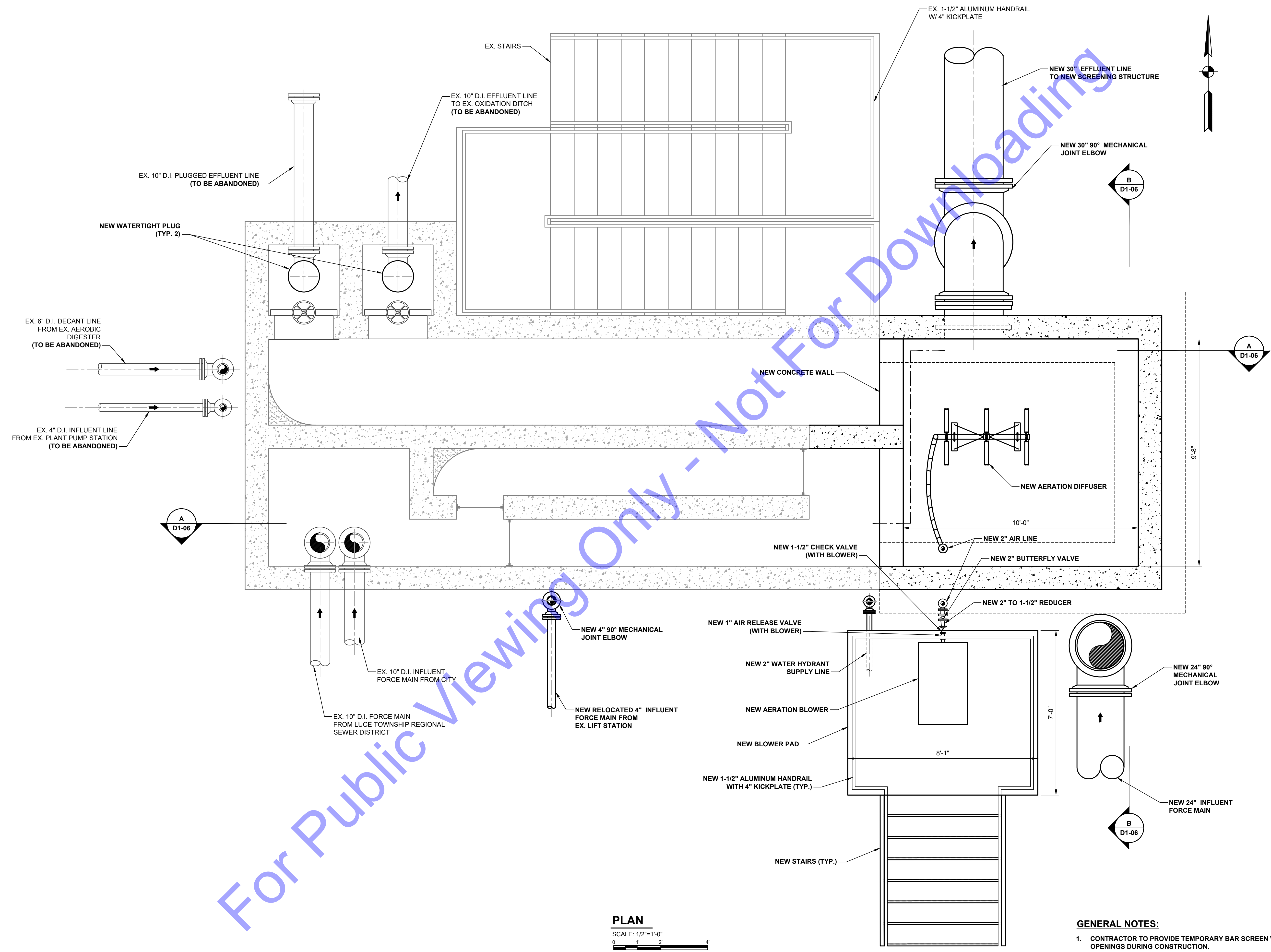
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EXISTING HEADWORKS - IMPROVEMENTS
 UPPER LEVEL PLAN VIEW

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PLAN
 SCALE: 1/2"=1'-0"
 0 1 2 4

- GENERAL NOTES:**
- CONTRACTOR TO PROVIDE TEMPORARY BAR SCREEN WITH 3/4" OPENINGS DURING CONSTRUCTION.
 - THE EFFLUENT PIPE SHALL BE LOCATED AS TO NOT INTERFERE WITH THE EXISTING STAIRS AND PLATFORM.

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Professional Engineer Seal:
 ERIC T. PARSONS
 No. 102003330
 STATE OF INDIANA
 PROFESSIONAL ENGINEER
 Signature: [Signature] Date: 01/24/24

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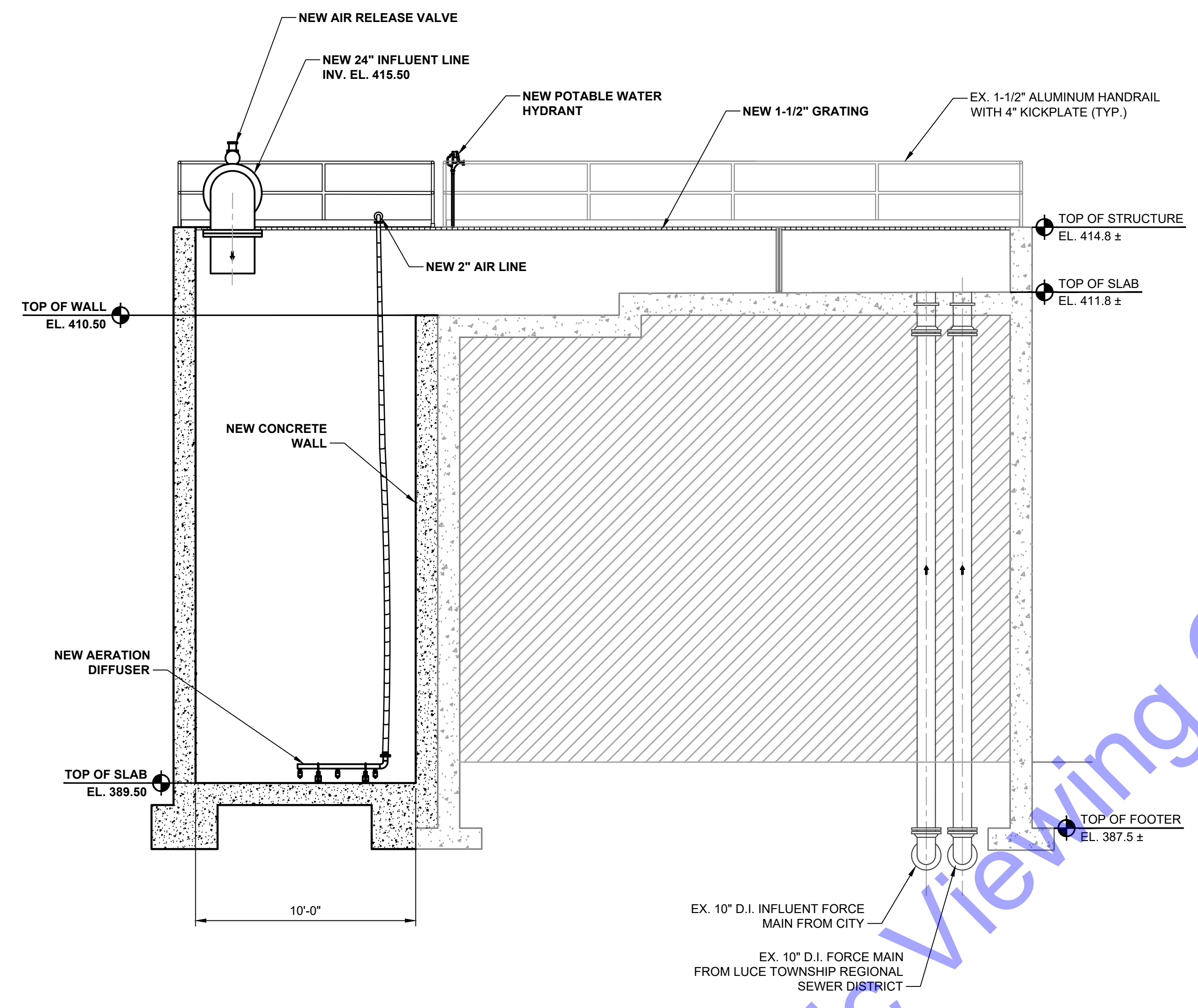
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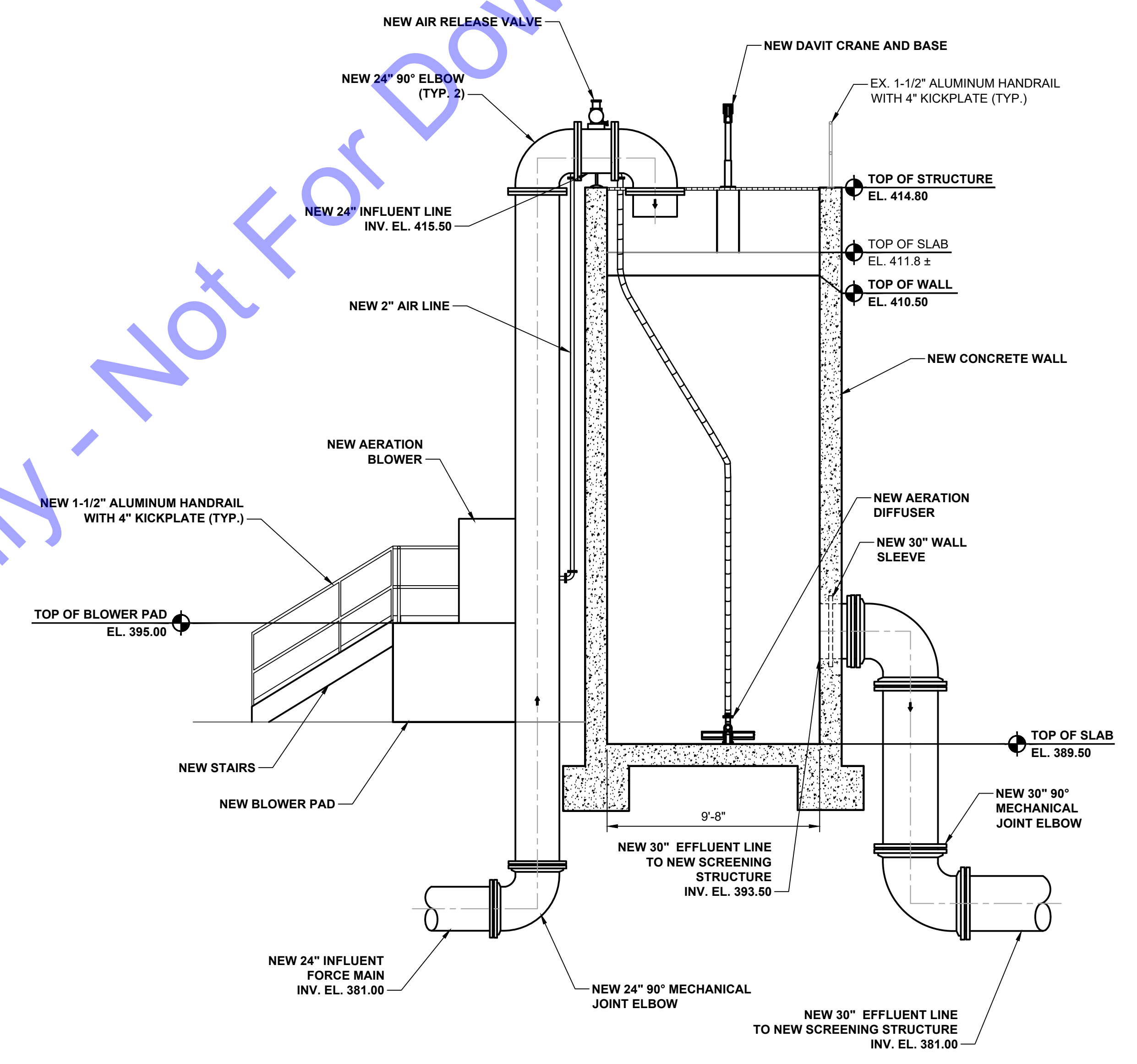
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EXISTING HEADWORKS - IMPROVEMENTS LOWER LEVEL PLAN VIEW

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SECTION A
 SCALE: 3/8"=1'-0"
 D1-04



SECTION B
 SCALE: 3/8"=1'-0"
 D1-04

- GENERAL NOTES:**
- CONTRACTOR TO PROVIDE TEMPORARY BAR SCREEN WITH 3/4" OPENINGS DURING CONSTRUCTION.

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 REGISTERED PROFESSIONAL ENGINEERS
 No. 102003330
 STATE OF INDIANA
 Signature: *Eric T. Pars* Date: 01/24/24

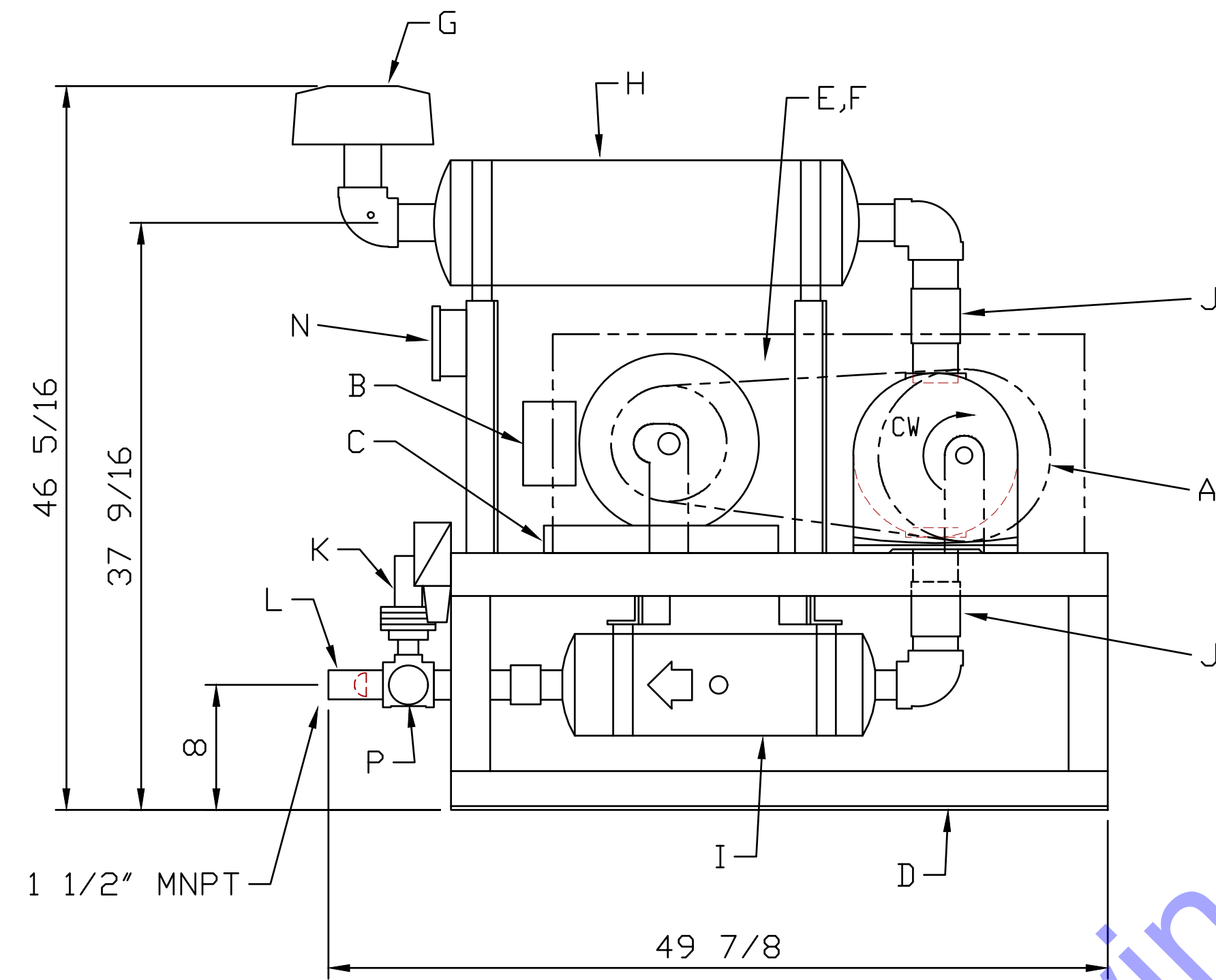
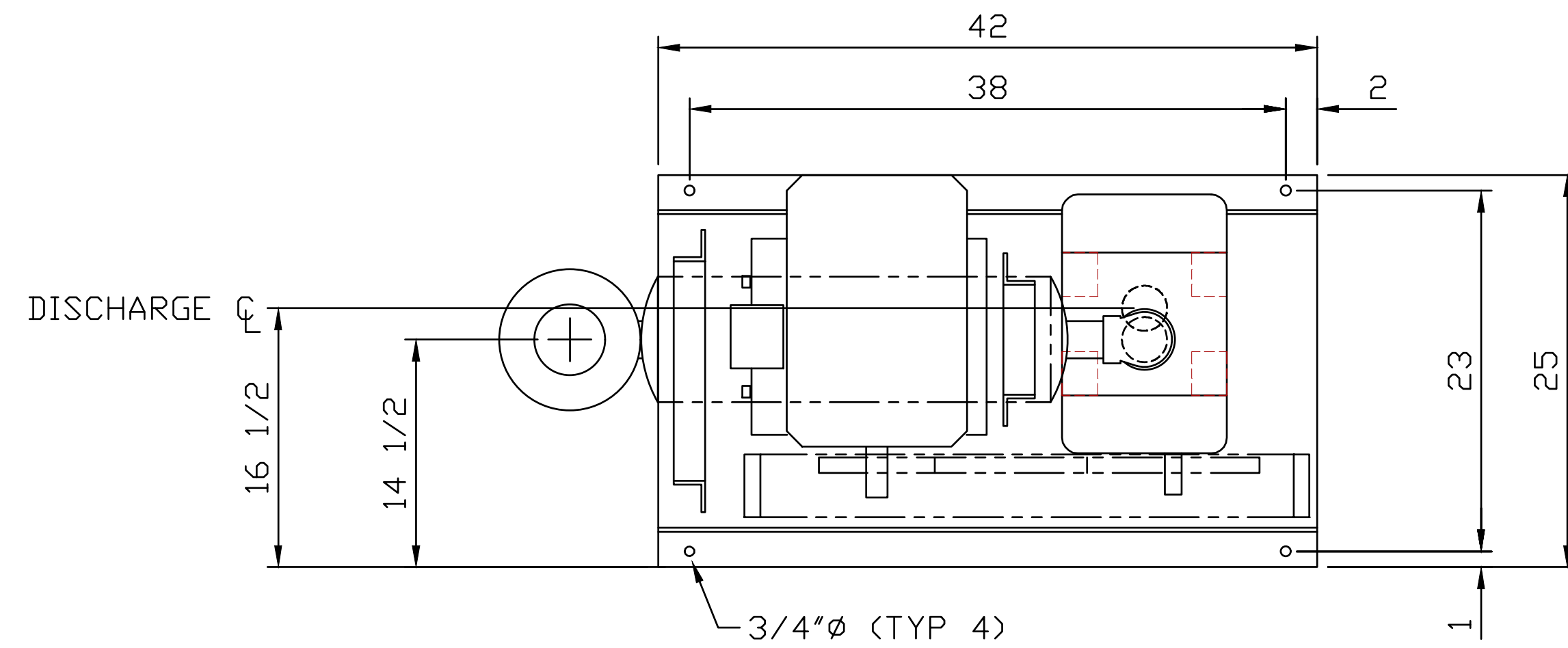
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EXISTING HEADWORKS - IMPROVEMENTS SECTION VIEWS



- A BLOWER: G.D. 3CDL5 CYCLOBLOWER, 50 SCFM @ 12.0 PSIG, 1183 RPM
- B MOTOR: 10 HP, 1800 RPM, TEFC, 215T, 208-230/460/3/60
- C MOTOR SLIDE BASE: 215
- D ELEVATED STEEL BASE
- E V-BELT DRIVE
BLOWER SHV: 1B11.0 - SDS x 1 1/6"
MOTOR SHV: 1B7.4 - SDS x 1 3/8"
BELTS: BX65, CD = 18.9"
- F BELT GUARD
- G INLET FILTER: UNIVERSAL CCF-2"
- H INLET SILENCER: UNIVERSAL URB-2"
- I DISCHARGE SILENCER: UNIVERSAL URB-1 1/2"
- J FLEXIBLE PIPE CONNECTOR: FLEX-FAB TYPE II-2 1/2"
- K RELIEF VALVE: SUTORBILT PL-1", SET @ 13.0 PSI
- L CHECK VALVE: F.E. 502-1 1/2"
- N DIFFERENTIAL PRESSURE GAUGE: DWYER 2020, 0-20" WC
- P PRESSURE GAUGE: WIKA 213.53, 0-30 PSI
- TS TEMPERATURE SWITCH: U.E. E100-3BC, 100-400°F, SET @ 350°F

ESTIMATED WEIGHT: 600 #

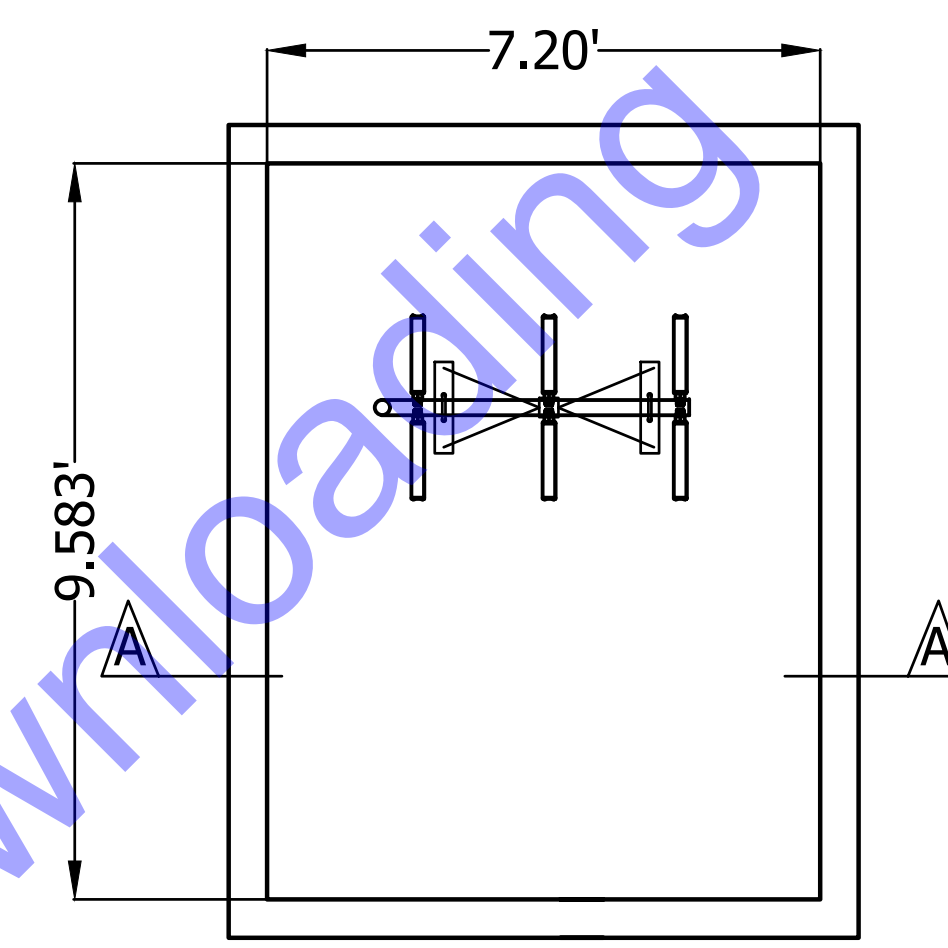
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SCALE: 3/4" = 1'

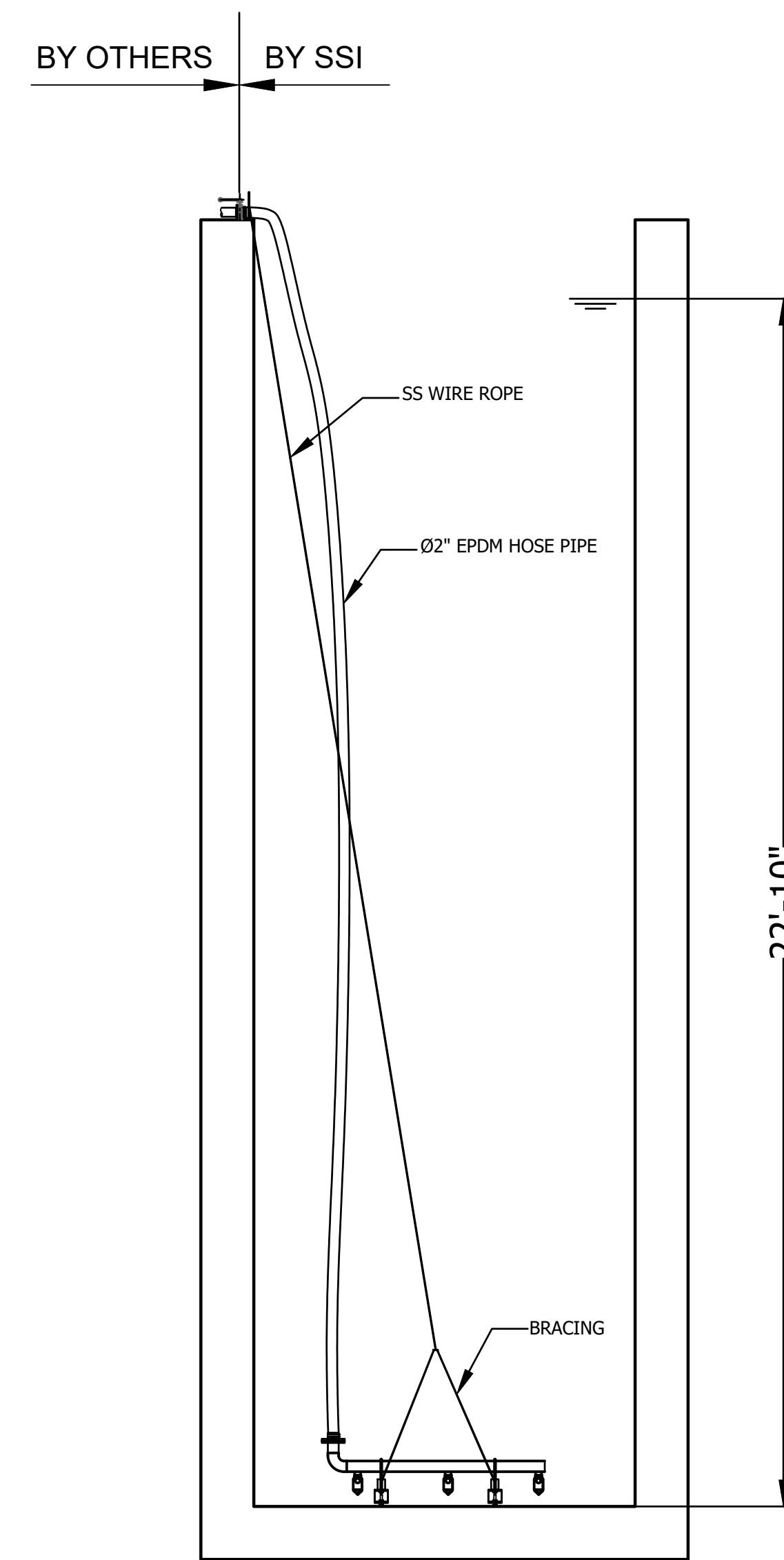
DRAWING

24767-1

EXCELSIOR
Blower Systems Inc.
READING, PENNSYLVANIA



AERATION CHAMBER LAYOUT PLAN



SECTION A-A

GENERAL NOTES:

1. THIS DETAIL WAS PROVIDED BY EXCELSIOR AND IS FOR REFERENCE ONLY.

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Professional Engineer Seal for Eric T. Parsi, No. 102003330, State of Indiana.
Signature: *E.T. Parsi*
Date: 01/24/24

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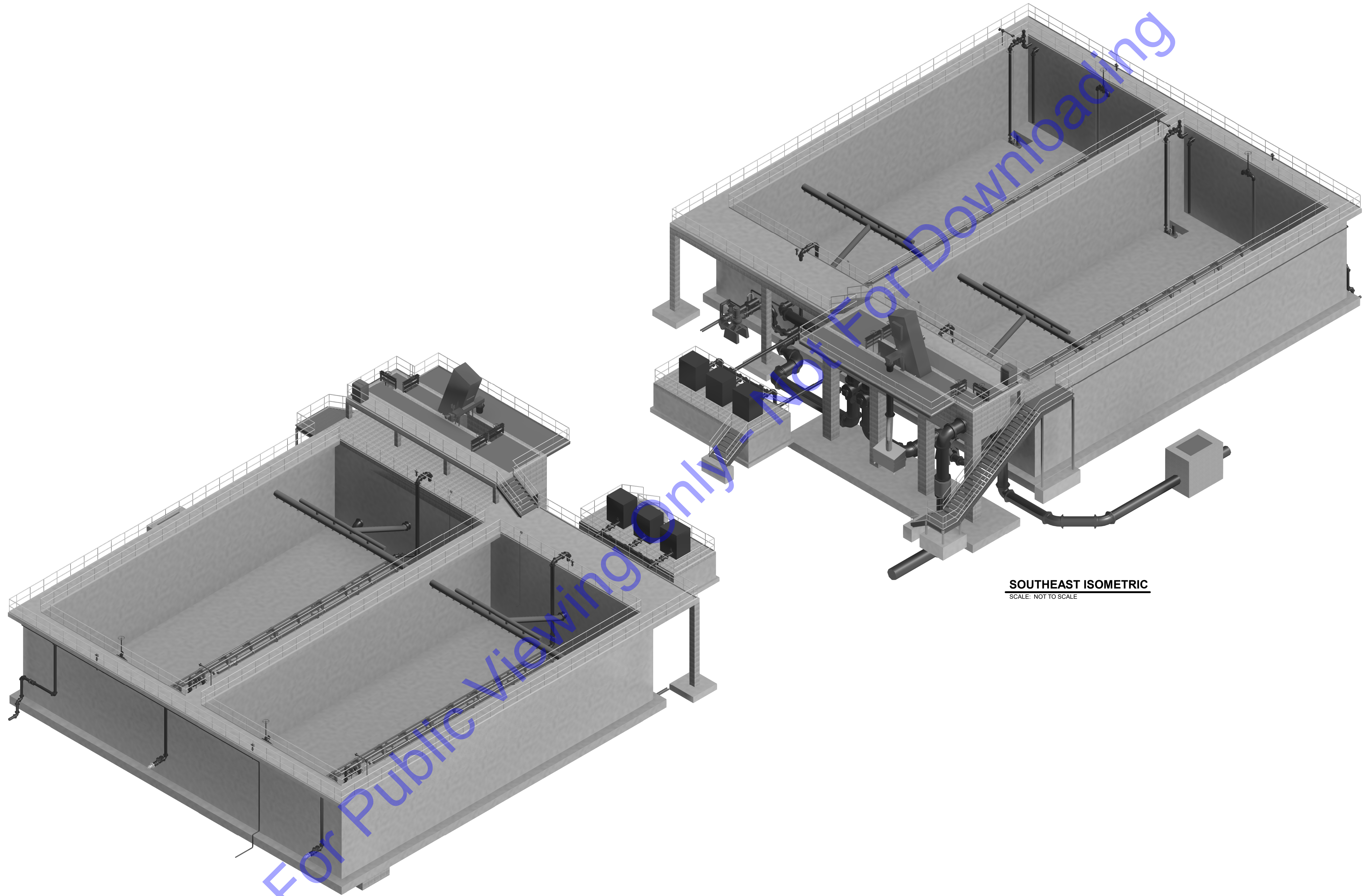
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EXISTING HEADWORKS - EQUIPMENT DETAILS

Drawing No: **D1-07**
Sheet: 36 OF 177

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SCALE: NOT TO SCALE

SOUTHEAST ISOMETRIC
SCALE: NOT TO SCALE

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ERIC T. PARS, EIT
REGISTERED
No. 10200330
STATE OF INDIANA
PROFESSIONAL ENGINEER

Eric T. Pars
Signature Date 1/24/24

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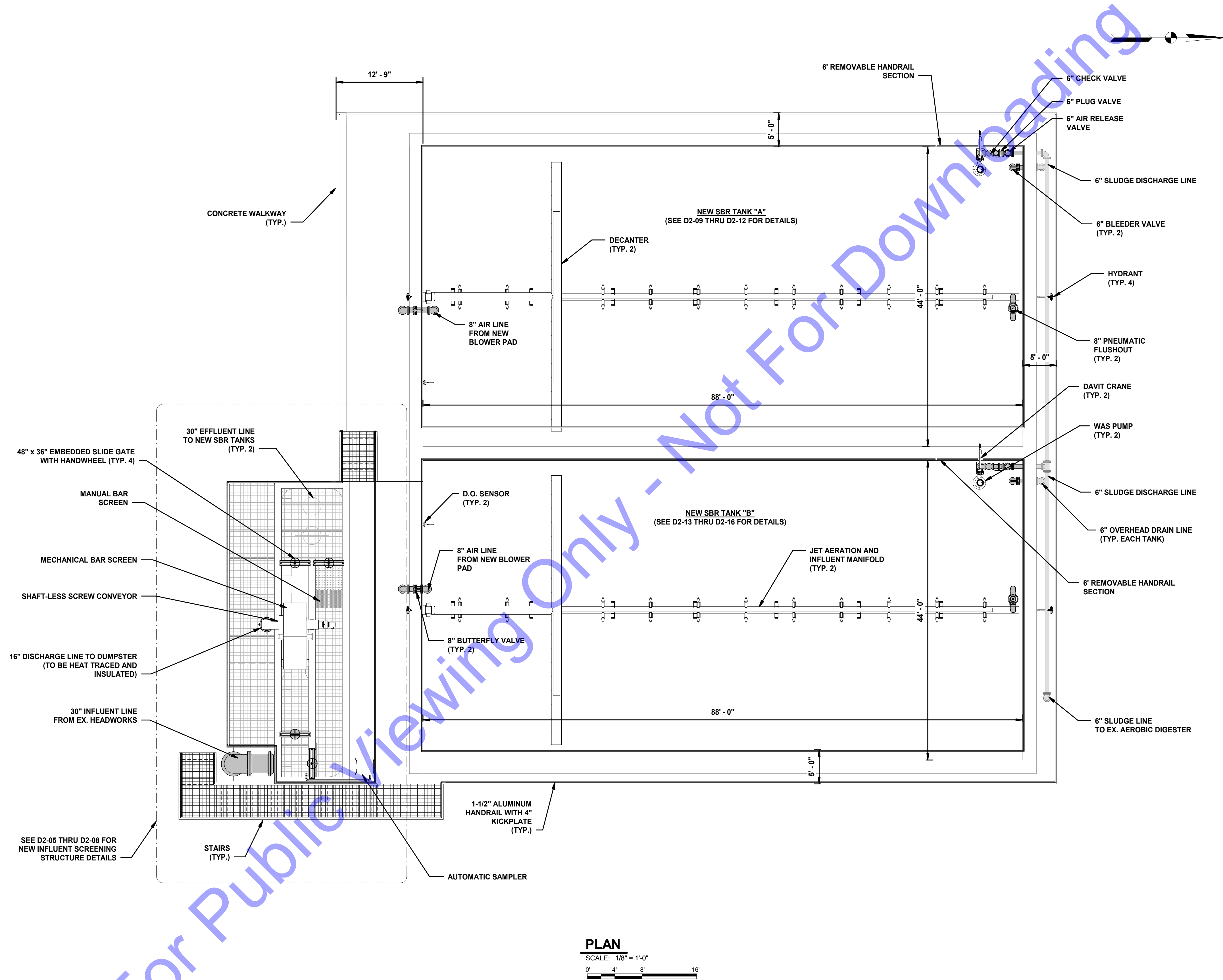
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**NEW SBR
TREATMENT FACILITY
- ISOMETRIC VIEWS**

Drawing No:
D2-01
Sheet: 37 OF 177

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PLAN

SCALE: 1/8" = 1'-0"



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Signature: *Eric T. Pars*
 Date: 1/24/24

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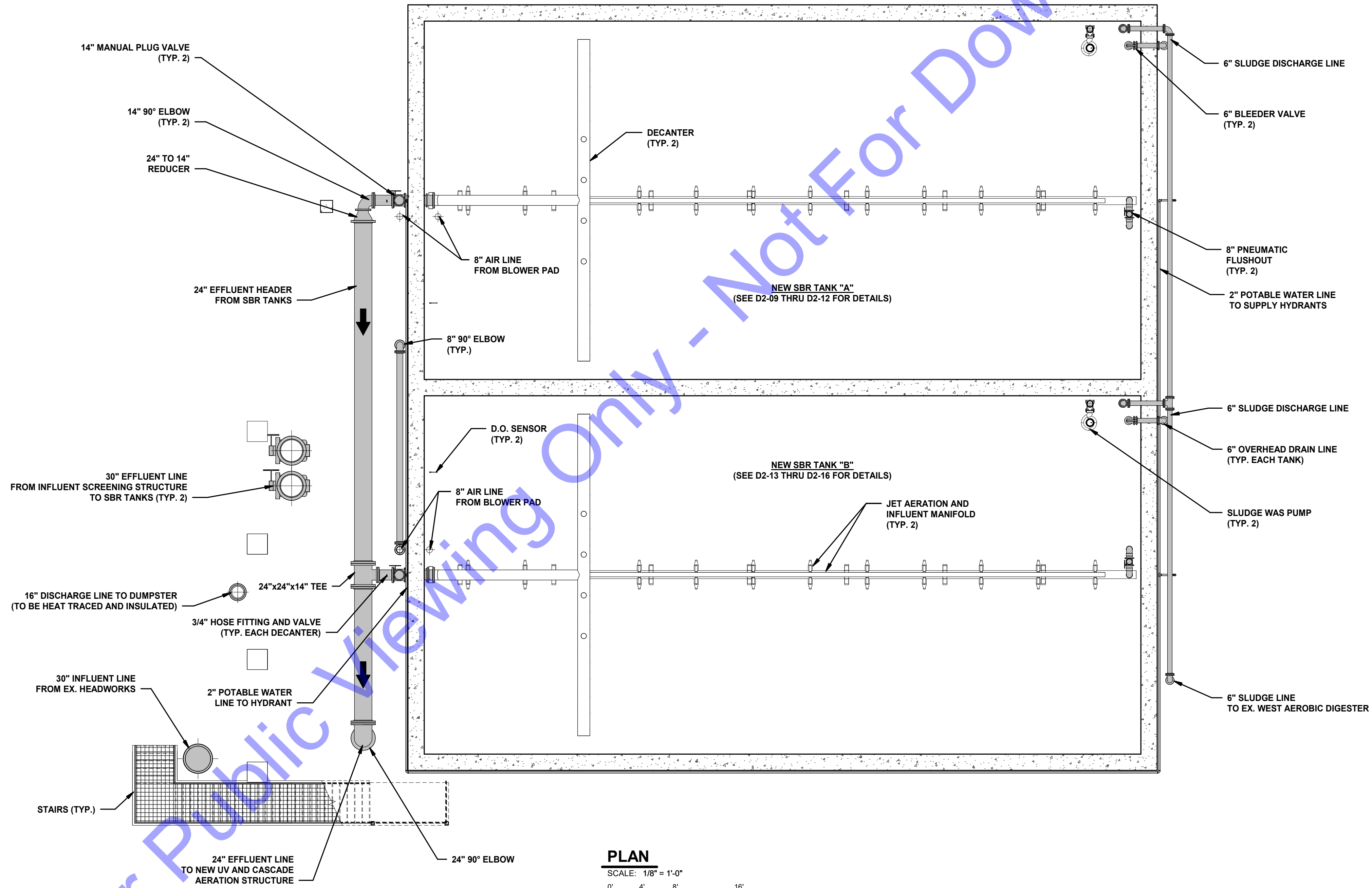
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NEW SBR TREATMENT FACILITY - OVERALL UPPER LEVEL PLAN VIEW
 Drawing No:
D2-02
 Sheet: 38 OF 177

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PLAN
SCALE: 1/8" = 1'-0"
0' 4' 8' 16'

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REGISTERED
No. 10200330
STATE OF INDIANA
PROFESSIONAL ENGINEER

Signature: *[Signature]* Date: 1/24/24

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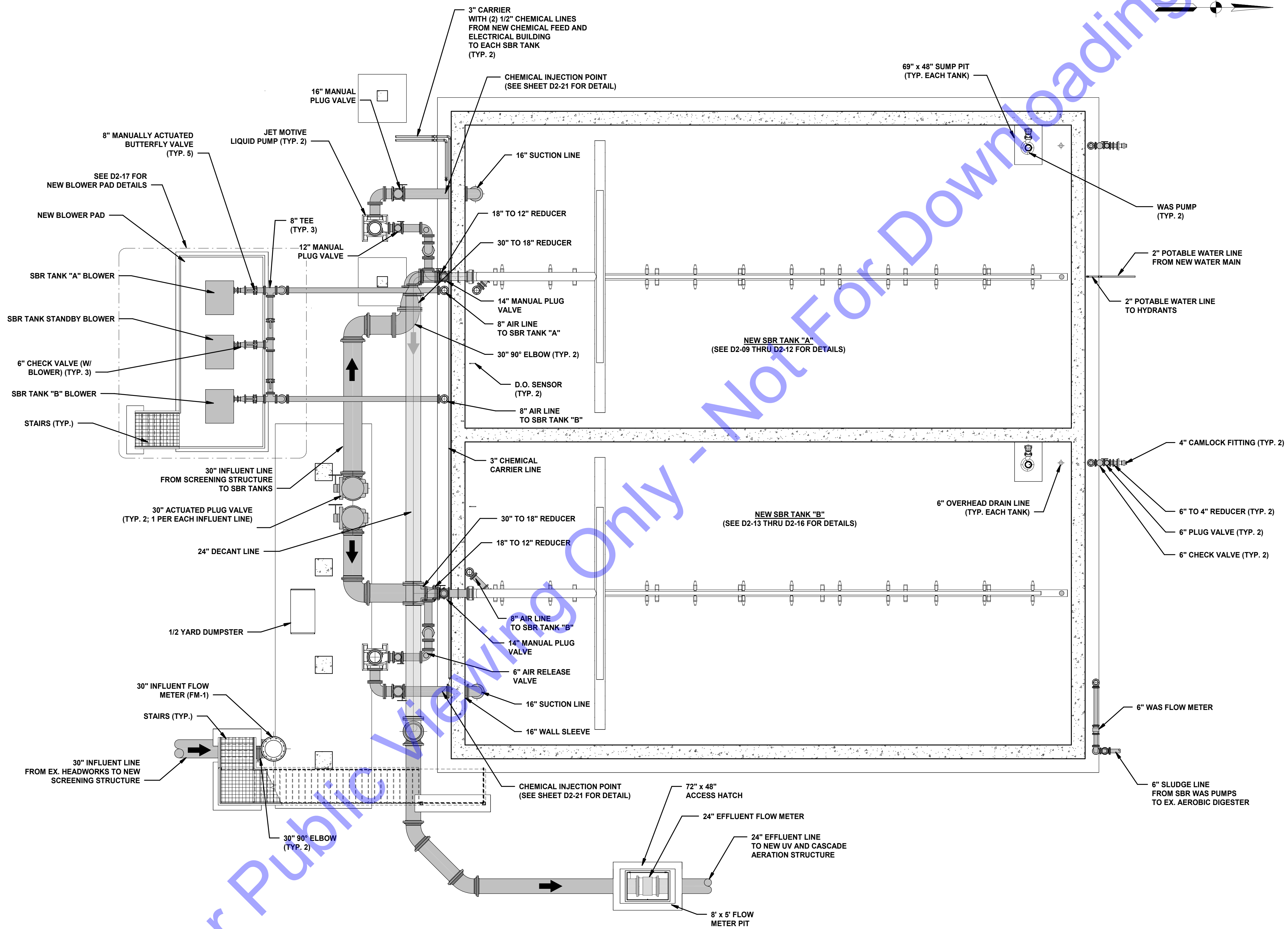
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NEW SBR TREATMENT FACILITY - OVERALL MID LEVEL PLAN VIEW

Drawing No:
D2-03
Sheet: 39 OF 177

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PLAN
SCALE: 1/8" = 1'-0"
0' 4' 8' 16'

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PROFESSIONAL ENGINEER
Signature: [Signature] Date: 1/24/24

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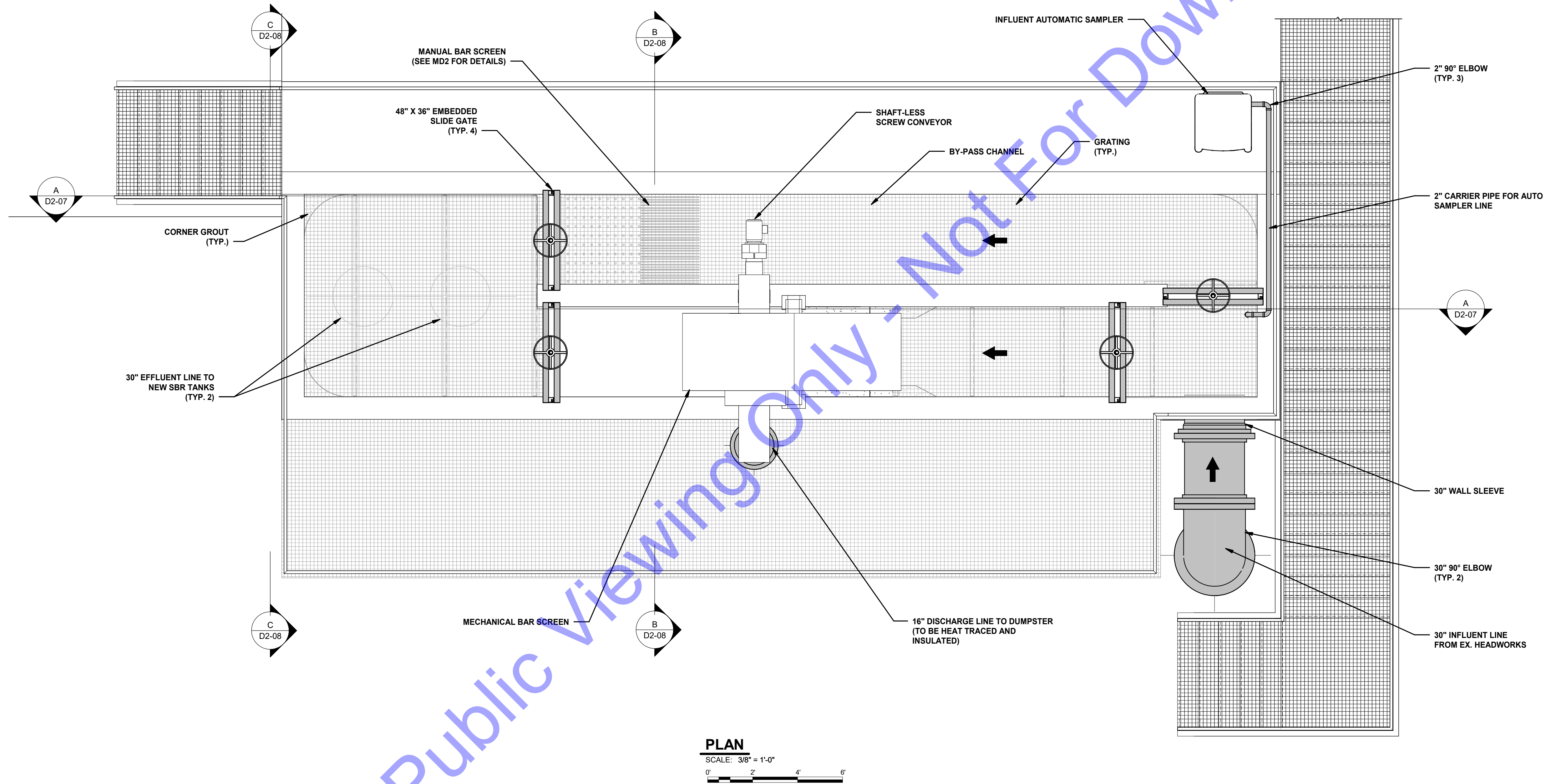
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Project No: S20107
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NEW SBR TREATMENT FACILITY - OVERALL LOWER LEVEL PLAN VIEW

Drawing No:
D2-04
Sheet: 40 OF 177

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PLAN
SCALE: 3/8" = 1'-0"
0' 2' 4' 6'

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No. 10200330
STATE OF INDIANA

Eric T. Pars 1/24/24
Signature Date

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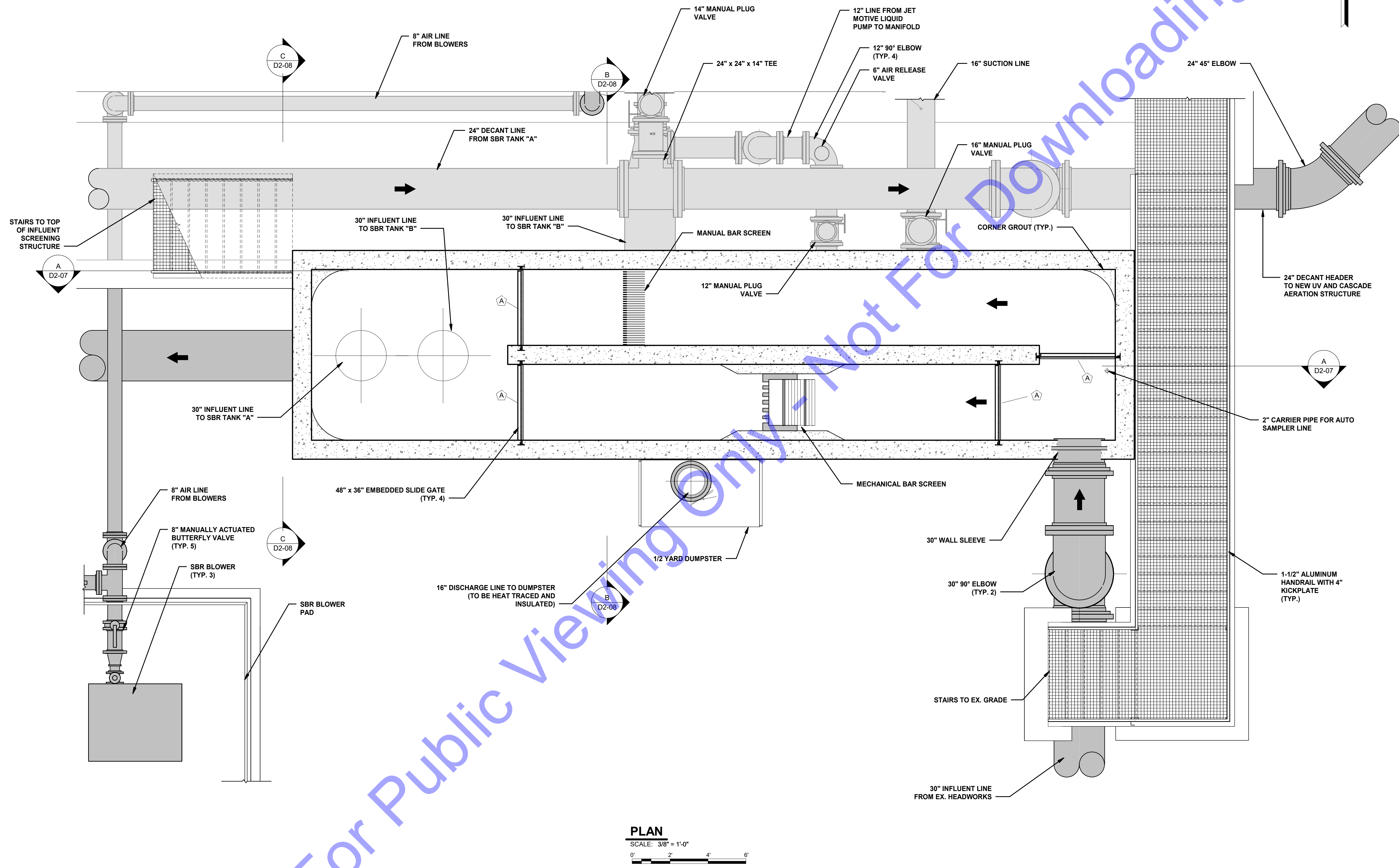
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NEW INFLUENT SCREENING STRUCTURE - UPPER LEVEL BLOW-UP PLAN VIEW

Drawing No:
D2-05

Sheet: 41 OF 177

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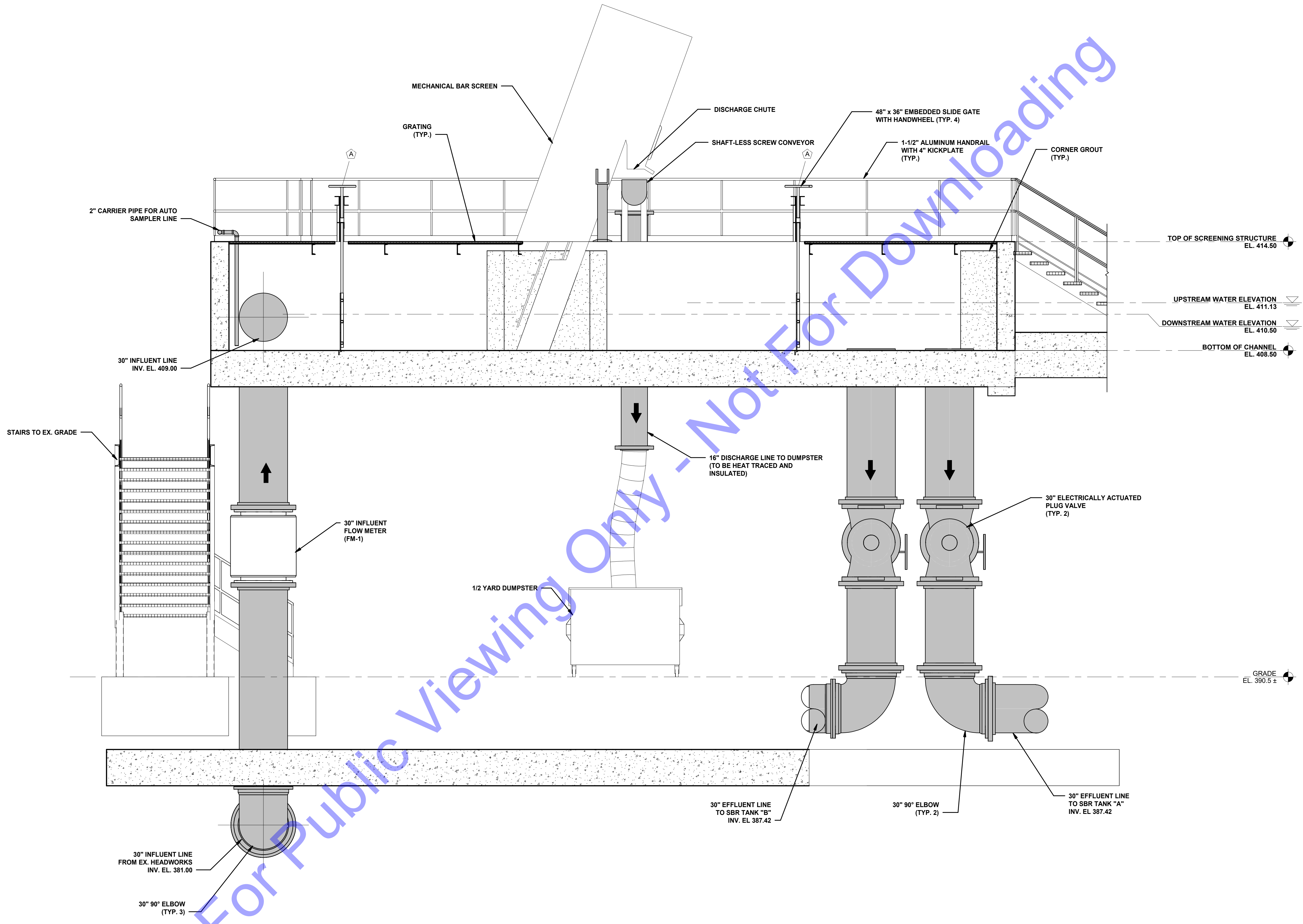
PLAN
SCALE: 3/8" = 1'-0"
0' 2' 4' 6'

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SECTION
SCALE: 3/8" = 1'-0"
A
D2-05

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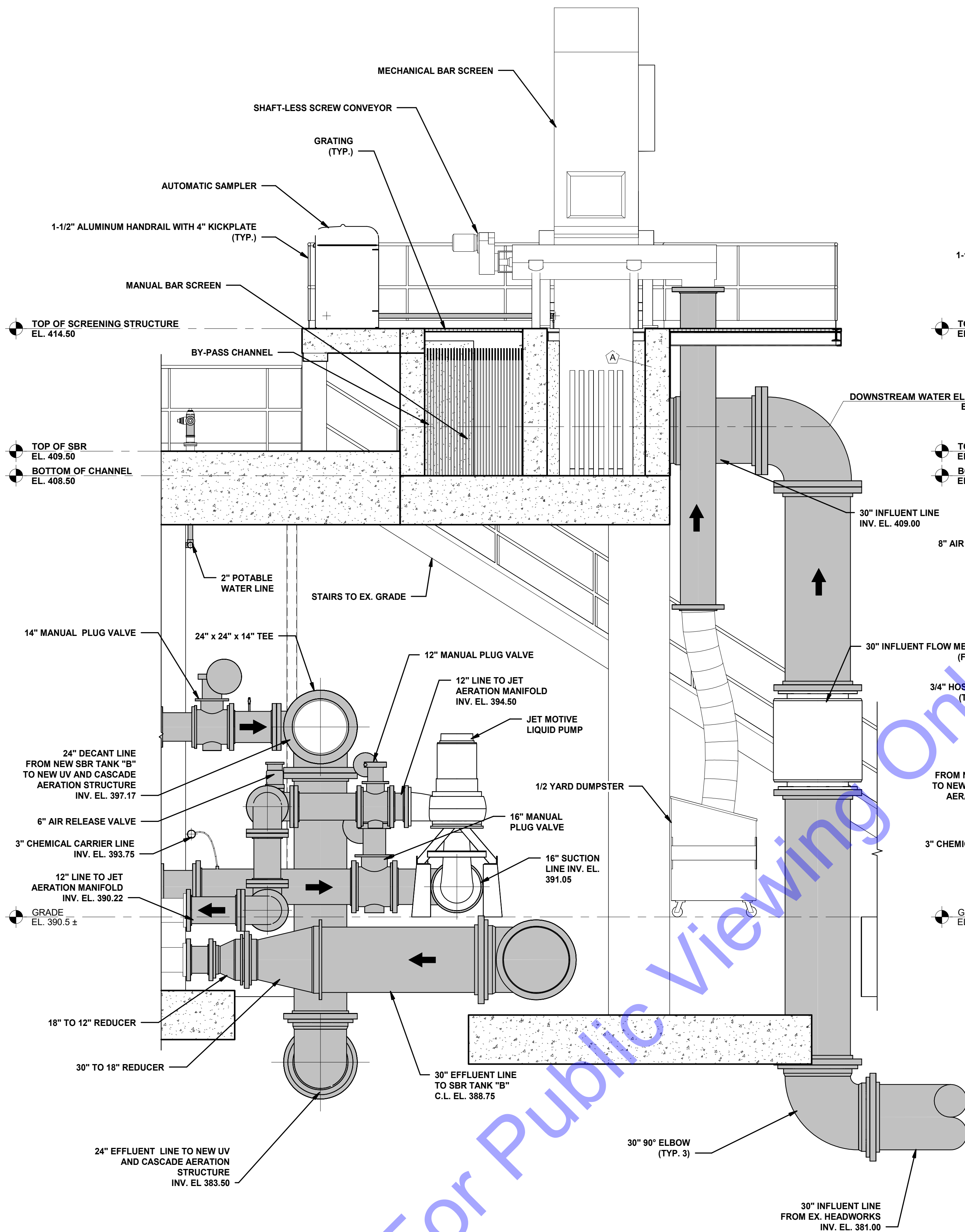
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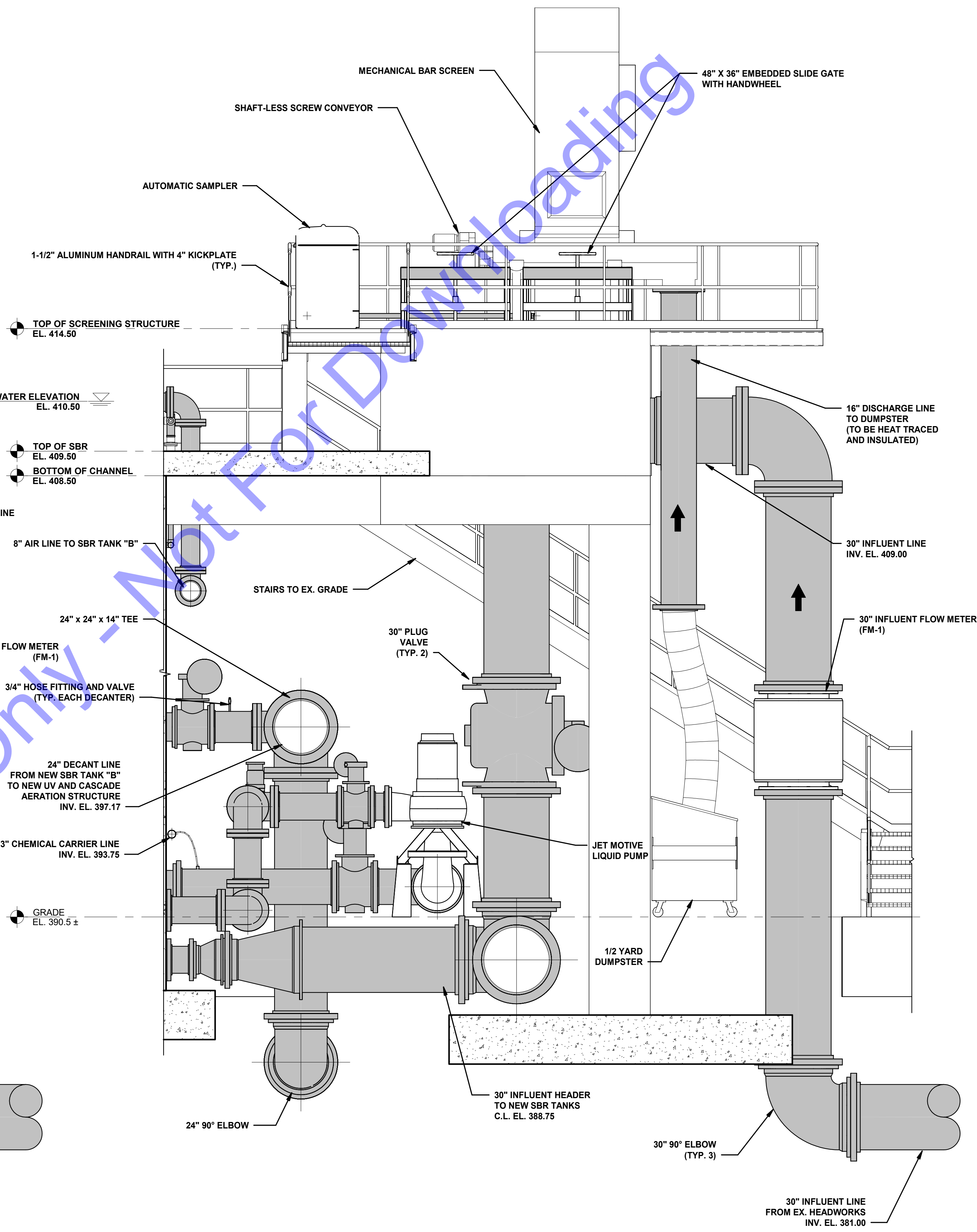
NEW INFLUENT SCREENING STRUCTURE - SECTION VIEW

Drawing No:
D2-07
Sheet: 43 OF 177

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SECTION B
SCALE: 3/8" = 1'-0"
D2-05



SECTION C
SCALE: 3/8" = 1'-0"
D2-05

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REGISTERED PROFESSIONAL ENGINEER
No. 10200330
STATE OF INDIANA
Signature: *Eric T. Pars* Date: 1/24/24

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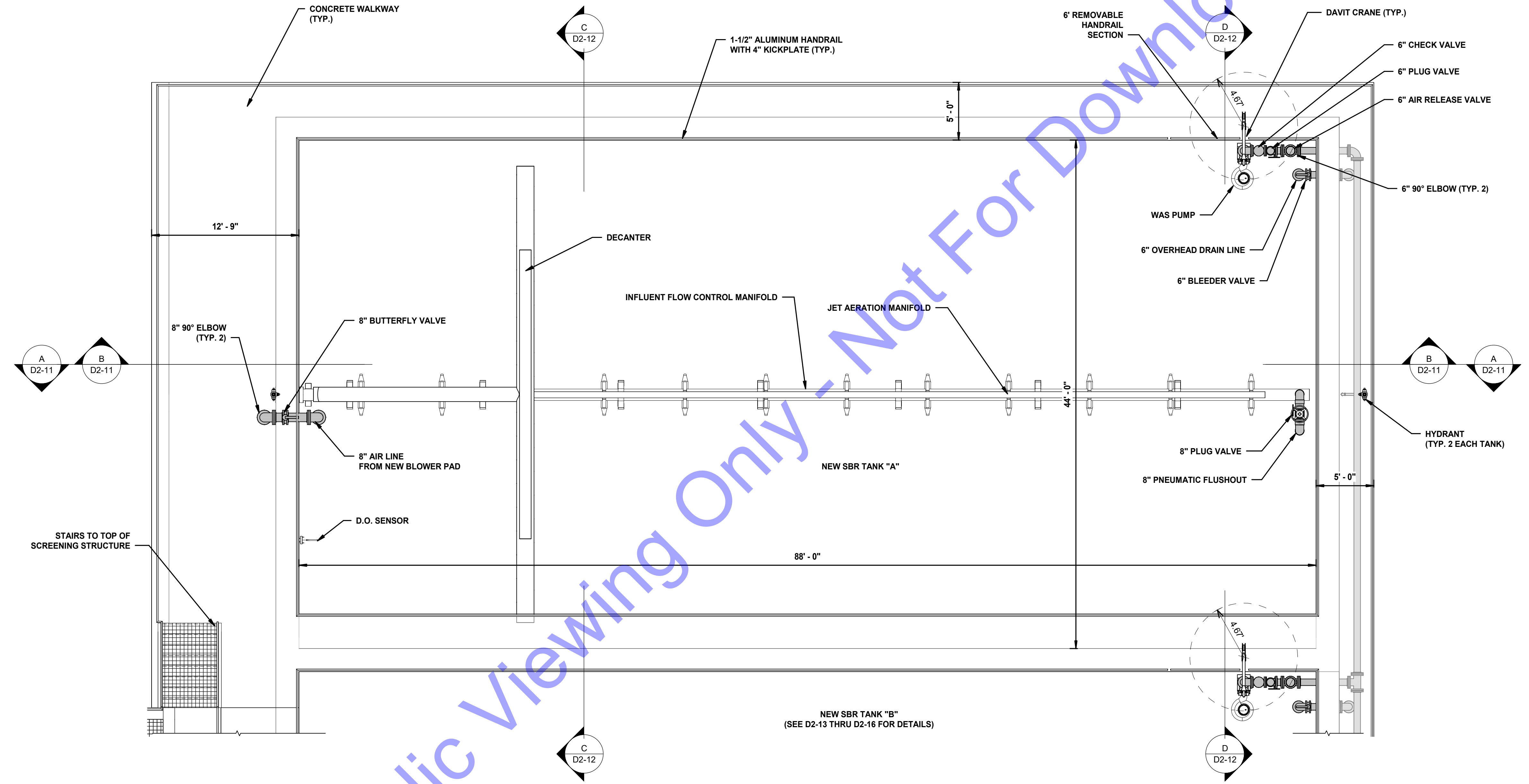
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Issue Date: JAN. 2024	Project No: S20107	Scale: AS SHOWN

**NEW INFLUENT
SCREENING
STRUCTURE -
SECTION VIEWS**

Drawing No:
D2-08
Sheet: 44 OF 177

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PLAN

SCALE: 3/16" = 1'-0"



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 No. 10200330
 STATE OF INDIANA
 REGISTERED PROFESSIONAL ENGINEER
 Signature: *Eric T. Pars* 1/24/24
 Date

City of Rockport
 Spencer County, Indiana
 Wastewater LTCP Phase 4 Project
 Division "A" - WWTP

CITY OF ROCKPORT
 SPENCER COUNTY, INDIANA
 WASTEWATER LTCP PHASE 4
 PROJECT
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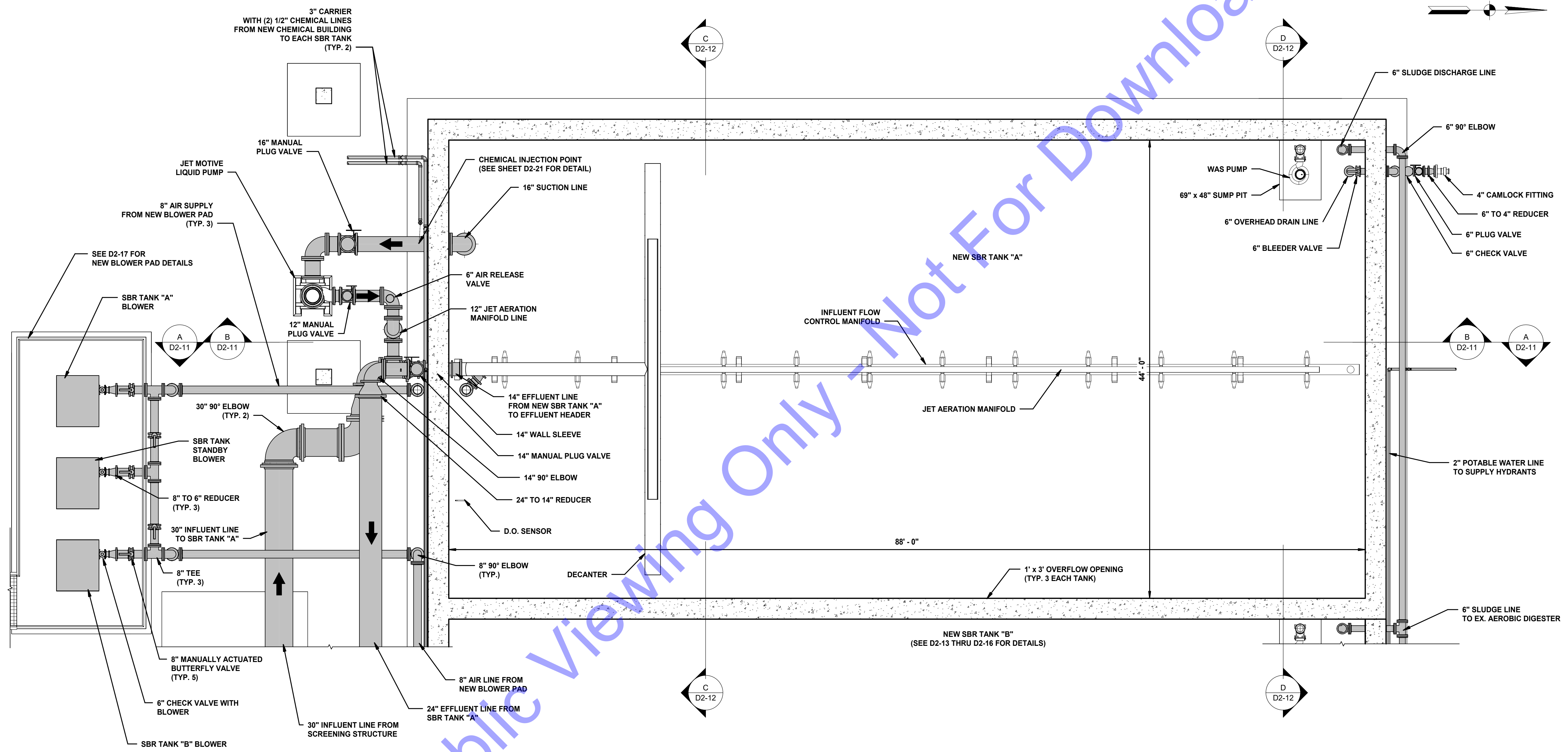
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NEW SBR TANK "A" -
 UPPER LEVEL
 BLOW-UP PLAN VIEW

Drawing No:
D2-09
 Sheet: 45 OF 177

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PLAN

SCALE: 3/16" = 1'-0"
 0' 4' 8' 12'

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Eric T. Pars
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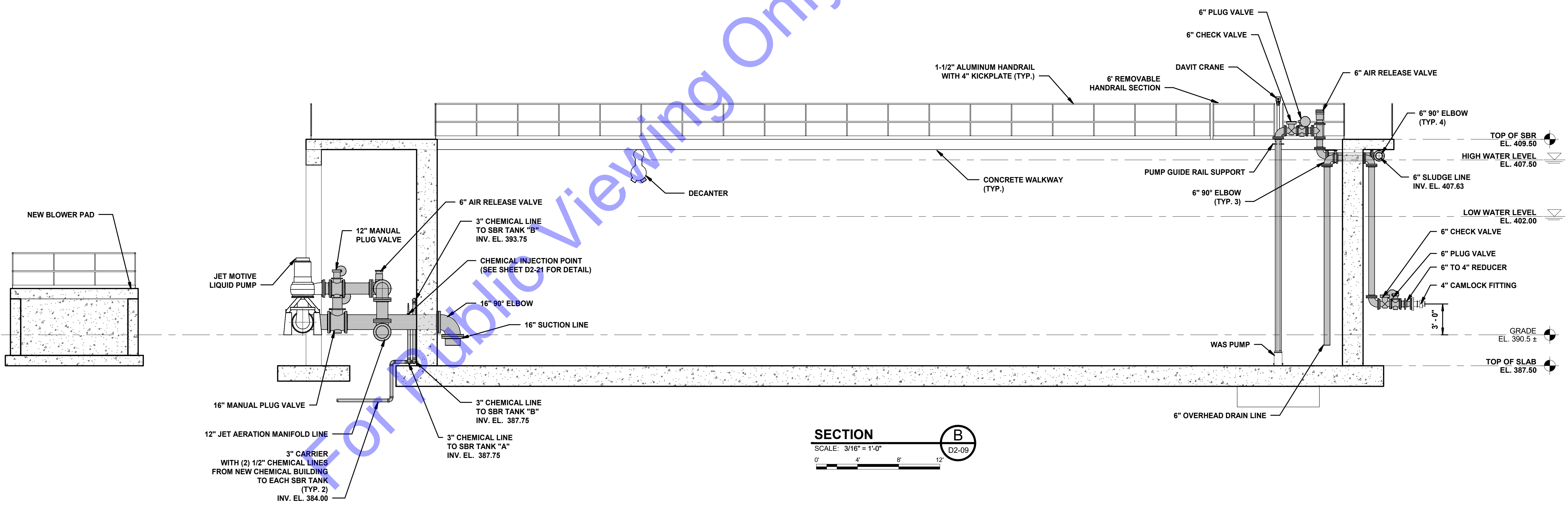
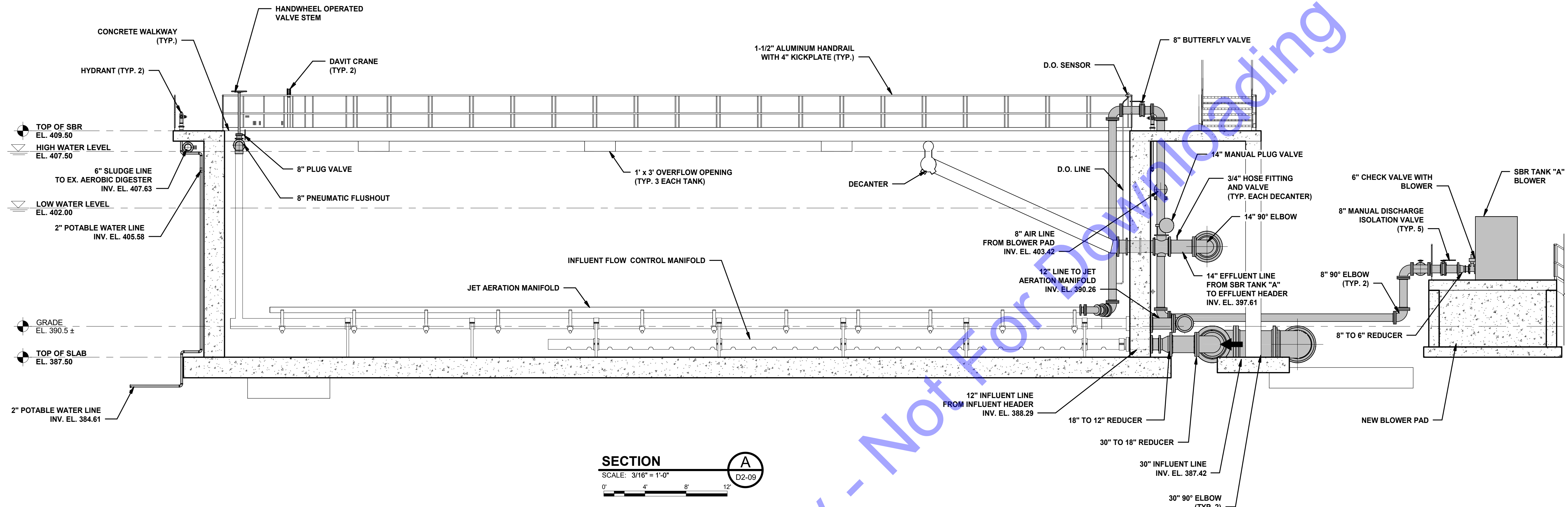
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**NEW SBR TANK "A" -
 LOWER LEVEL
 BLOW-UP PLAN VIEW**

Drawing No:
D2-10
 Sheet: 46 OF 177

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DIVISION "A" - WWTP

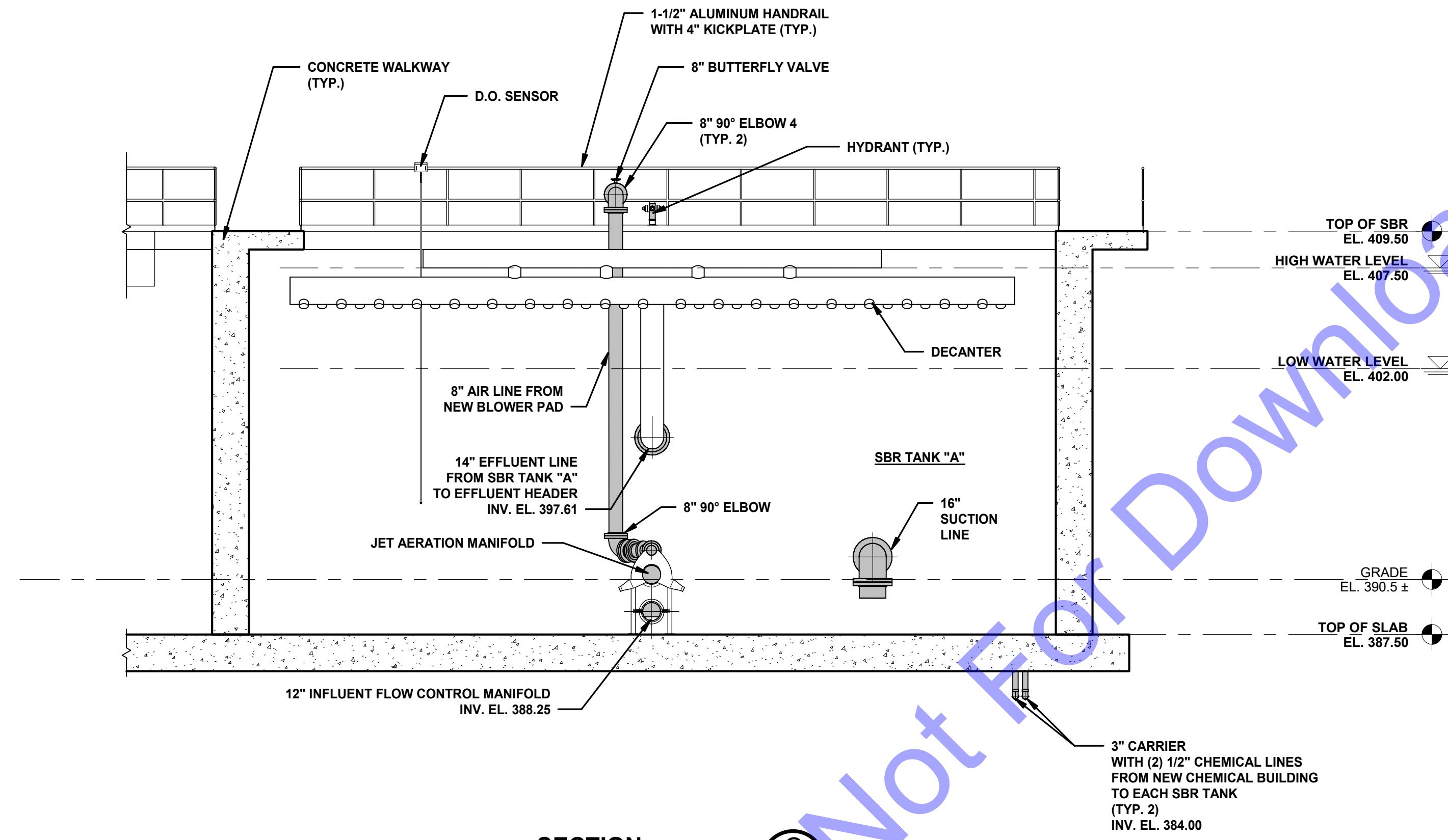
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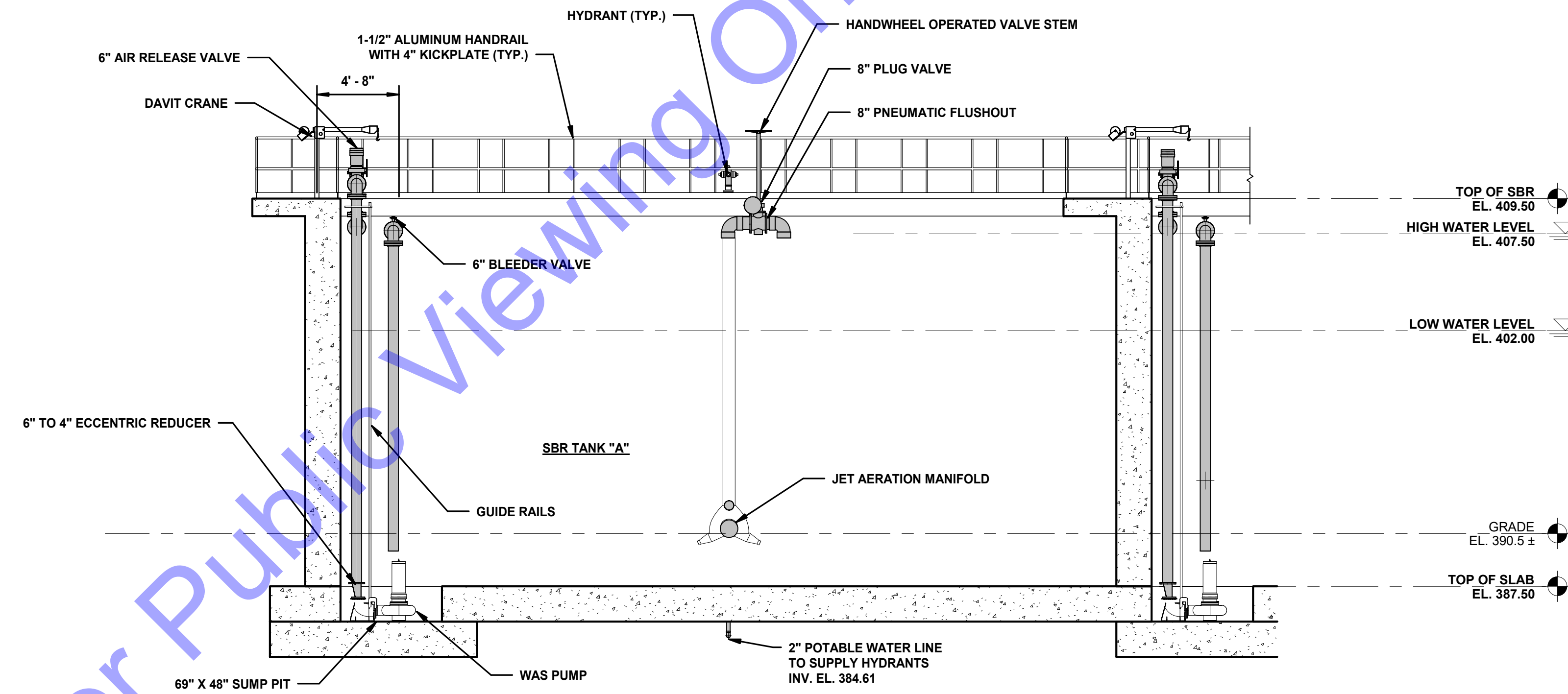
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NEW SBR TANK "A" - SECTION VIEWS
 Drawing No:
D2-11
 Sheet: 47 OF 177

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SECTION C
 SCALE: 3/16" = 1'-0"
 D2-09



SECTION D
 SCALE: 3/16" = 1'-0"
 D2-09

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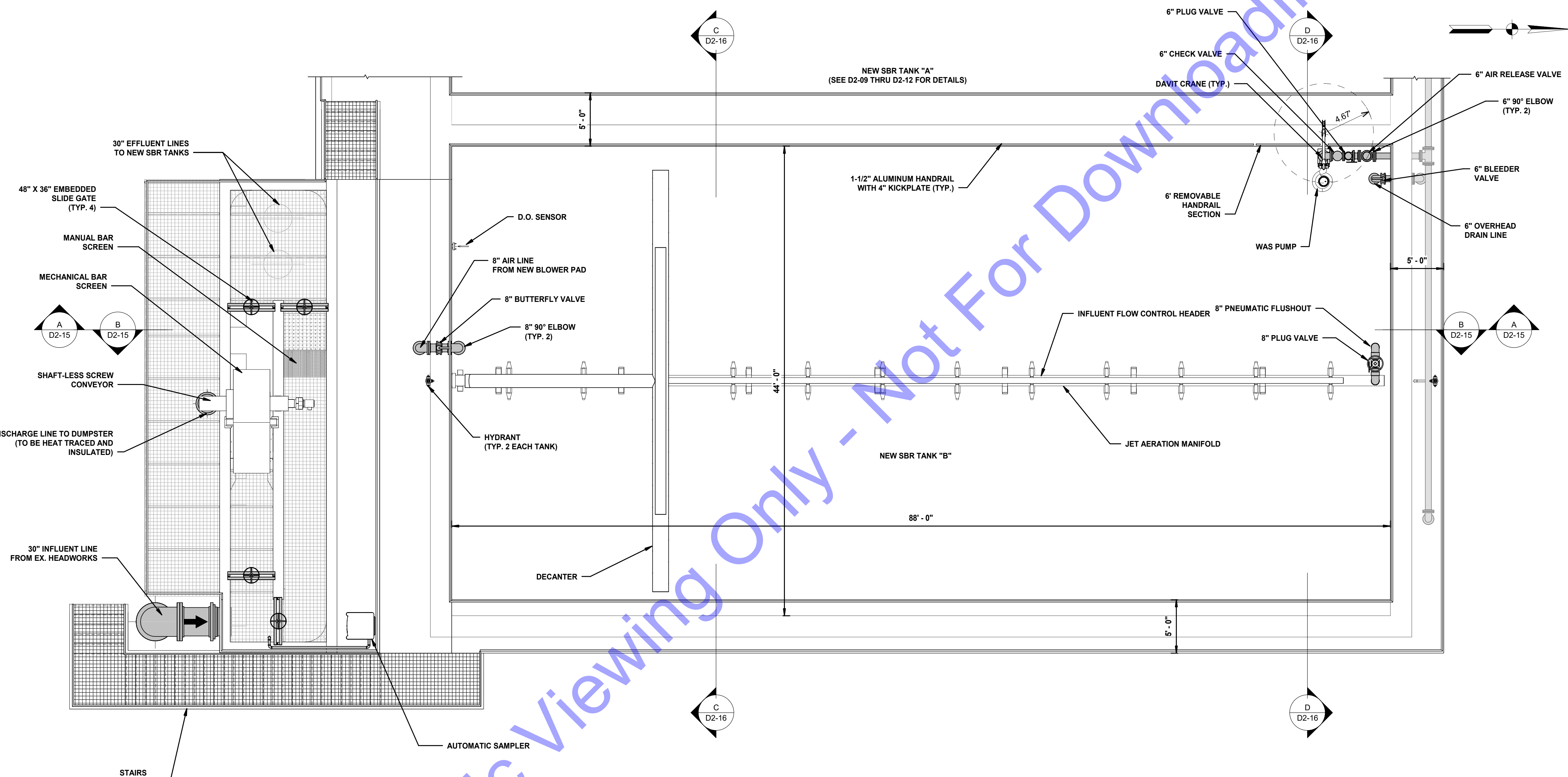
Date	By	Submital / Revision

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NEW SBR TANK "A" - SECTION VIEWS

Drawing No:
D2-12
 Sheet: 48 OF 177

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PLAN
SCALE: 3/16" = 1'-0"
0' 4' 8' 12'

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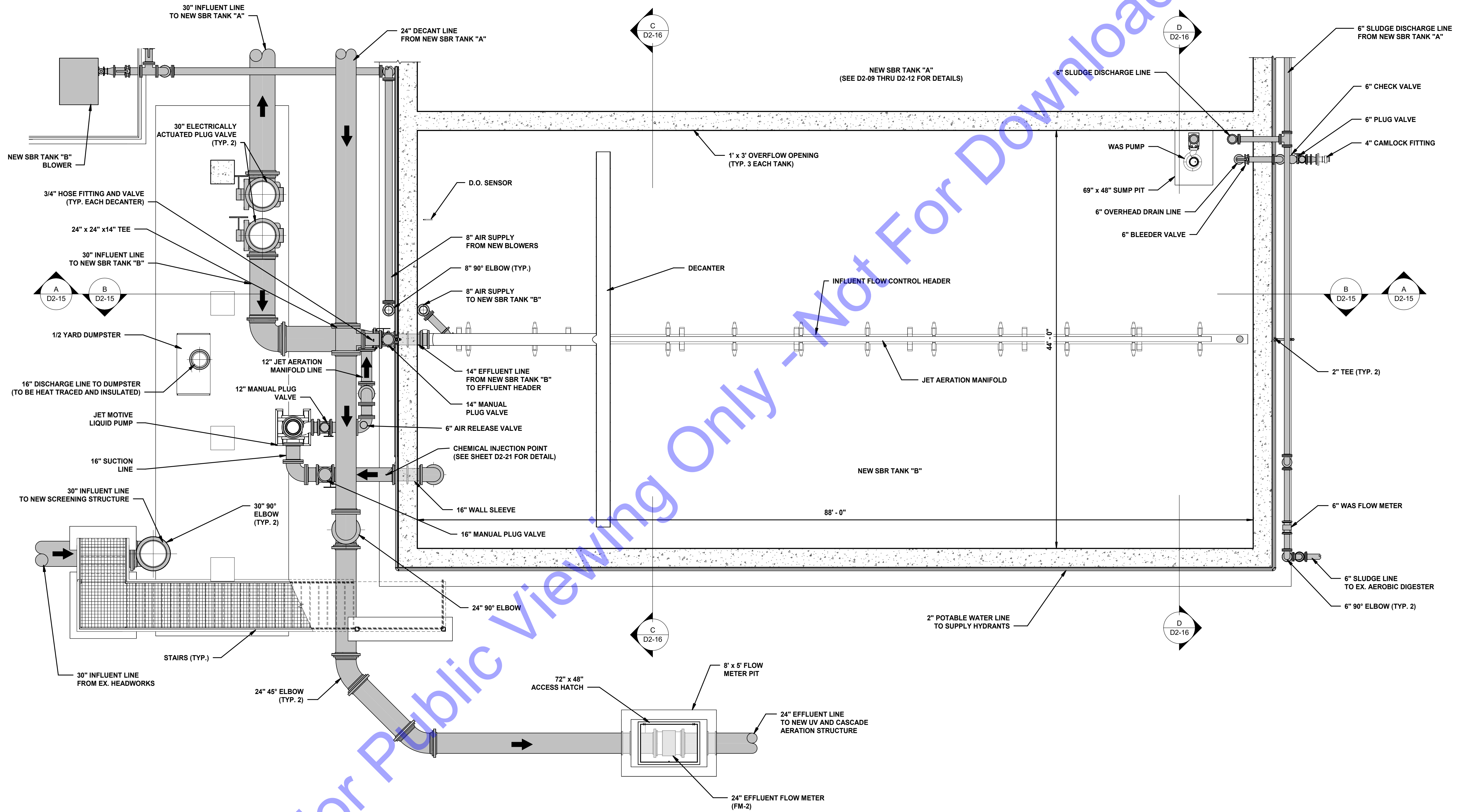
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NEW SBR TANK "B" - UPPER LEVEL BLOW-UP PLAN VIEW
 Drawing No:
D2-13
 Sheet: 49 OF 177

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PLAN
SCALE: 3/16" = 1'-0"
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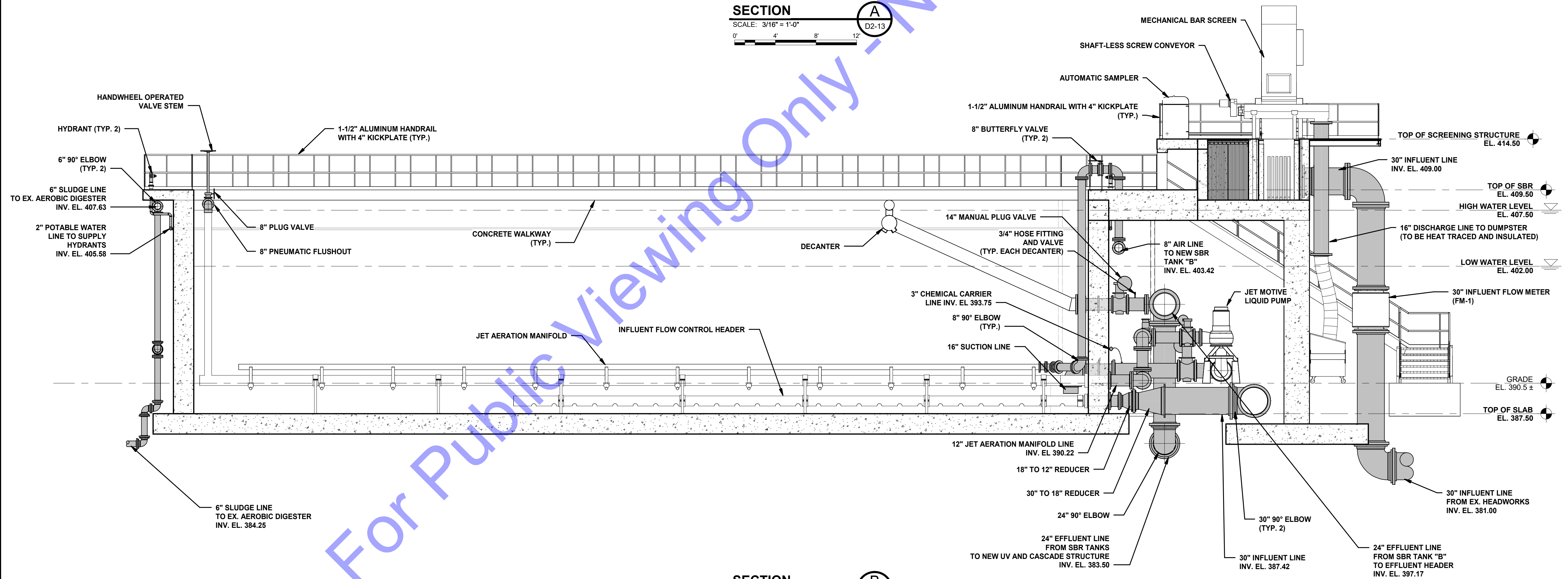
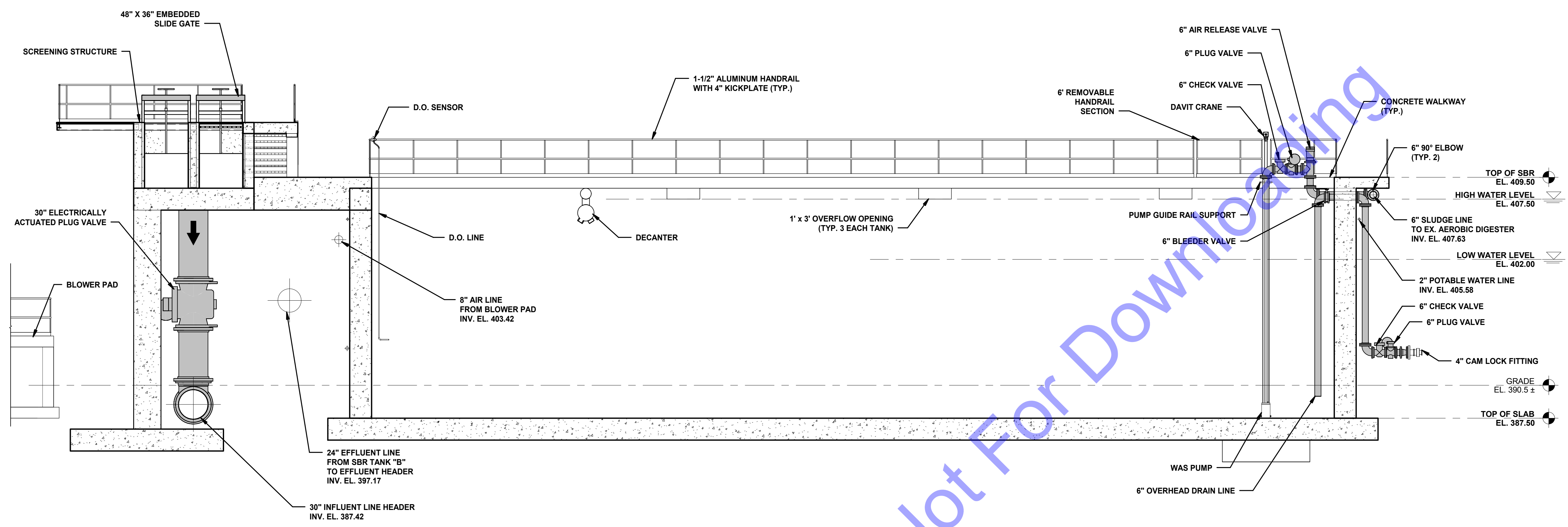
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NEW SBR TANK "B" - LOWER LEVEL BLOW-UP PLAN VIEW

Drawing No:
D2-14
Sheet: 50 OF 177

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REGISTERED PROFESSIONAL ENGINEER
No. 10200330
STATE OF INDIANA

Signature: *Eric T. Pars* Date: 1/24/24

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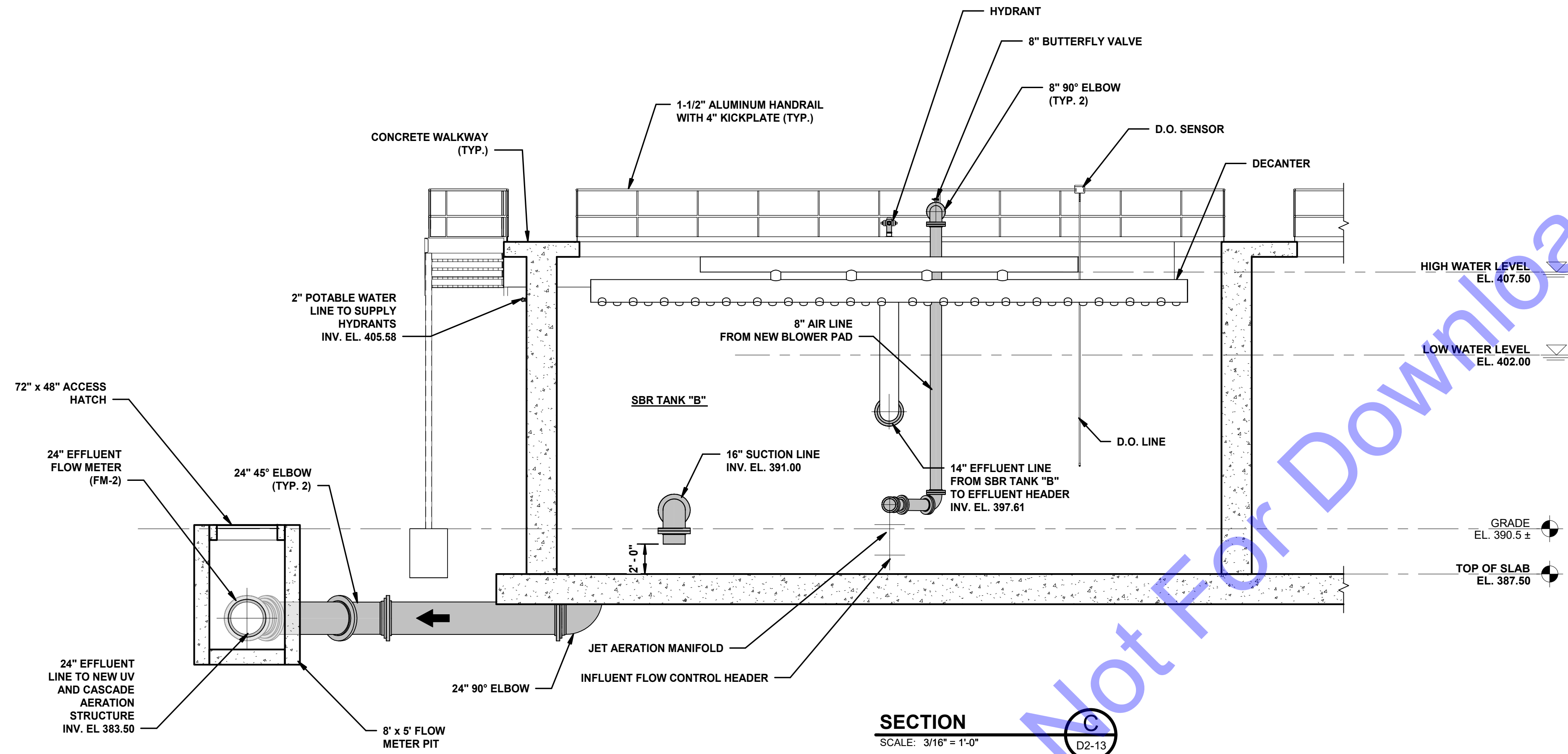
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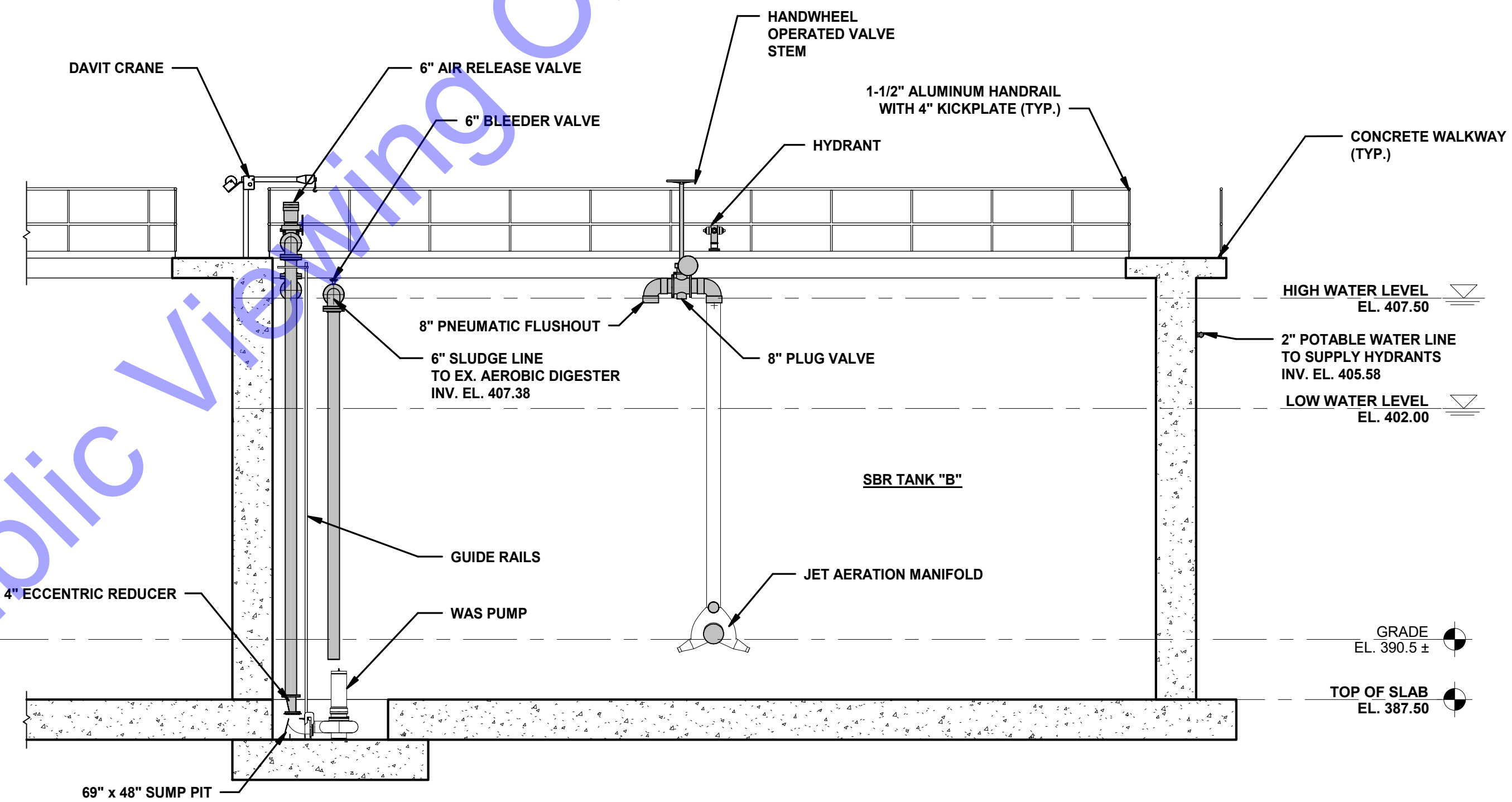
NEW SBR TANK "B" - SECTION VIEWS

Drawing No:
D2-15
Sheet: 51 OF 177

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SECTION
SCALE: 3/16" = 1'-0"
D2-13



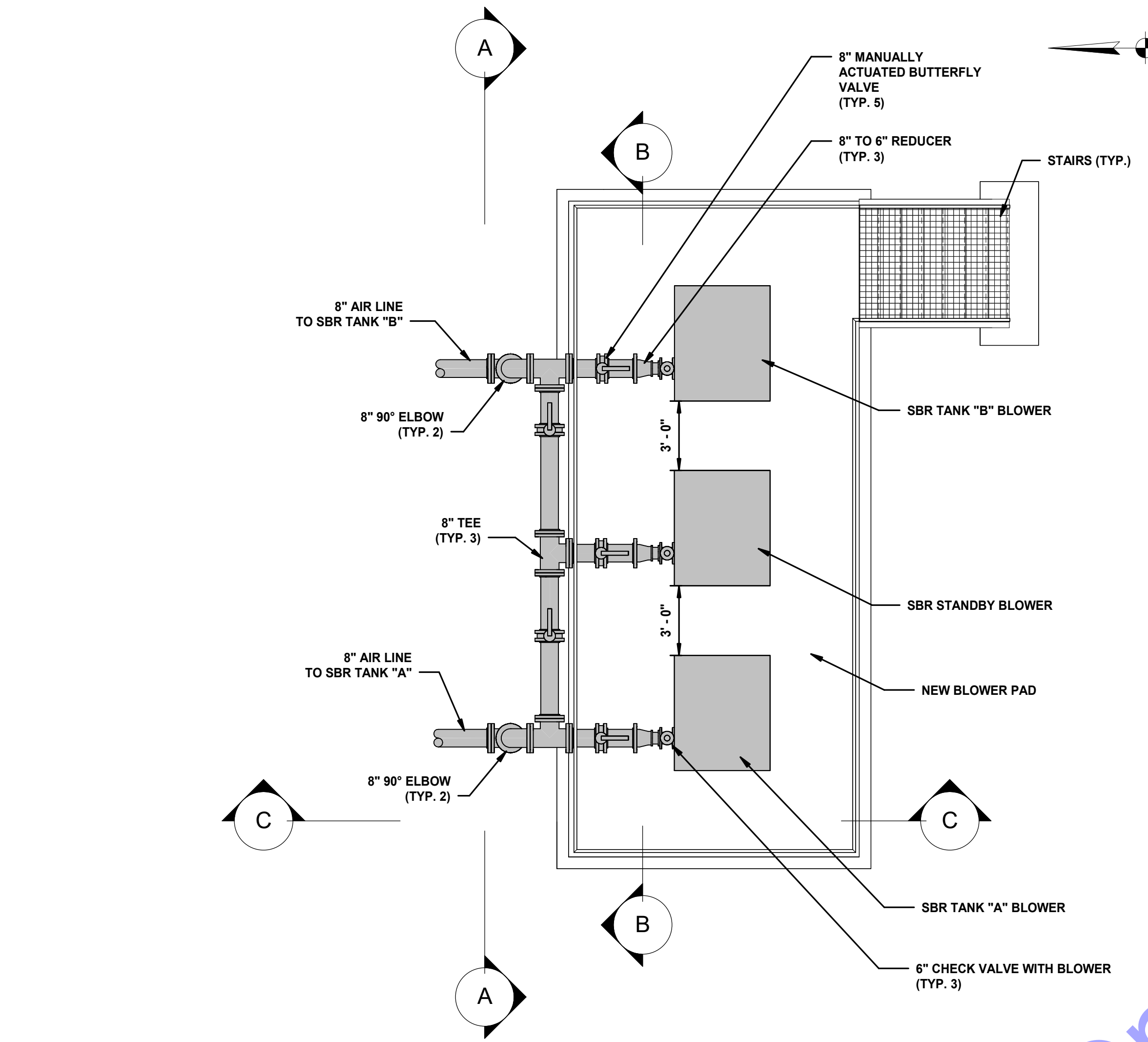
SECTION
SCALE: 3/16" = 1'-0"
D2-13

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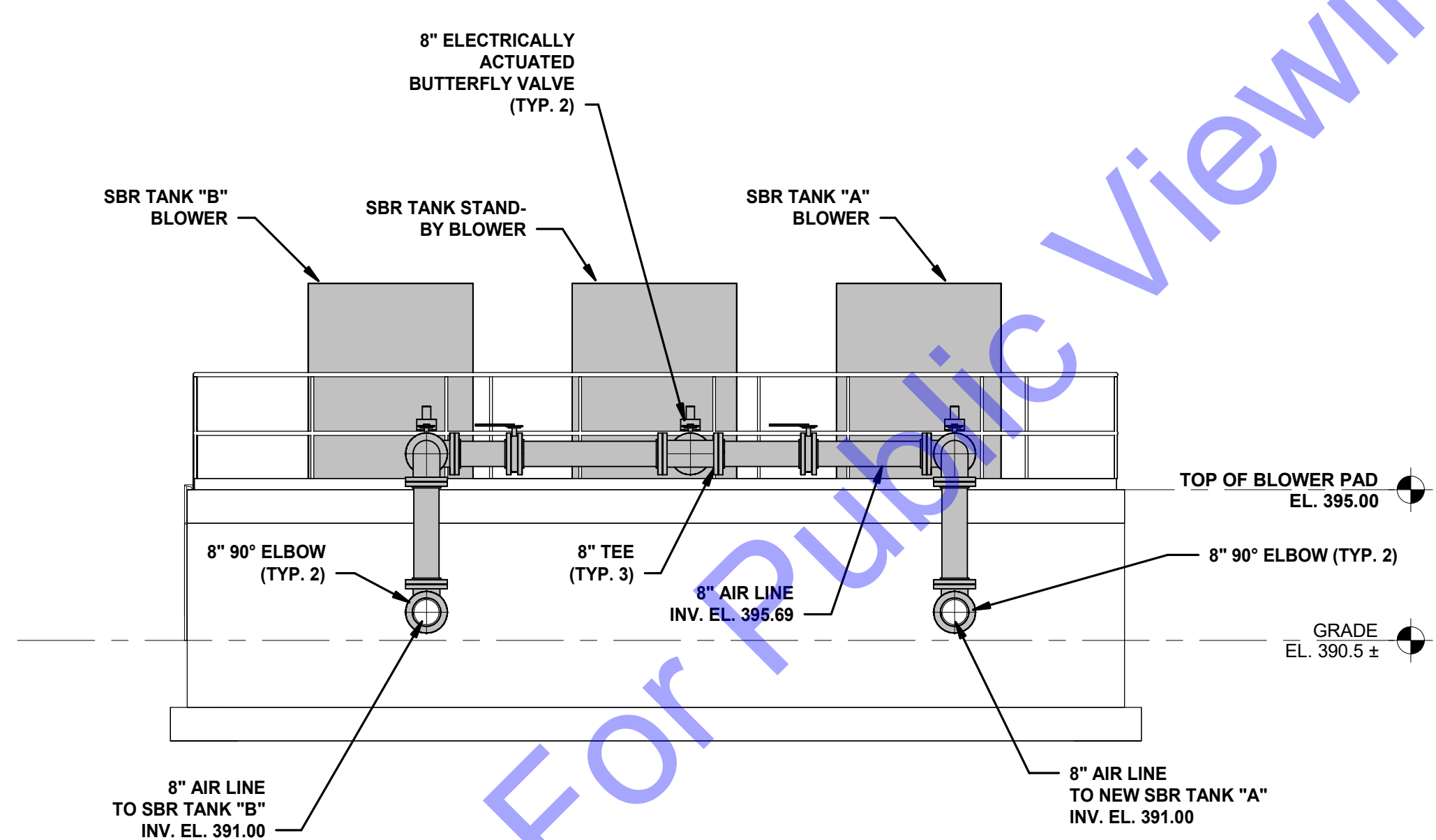
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NEW SBR TANK "B" - SECTION VIEWS

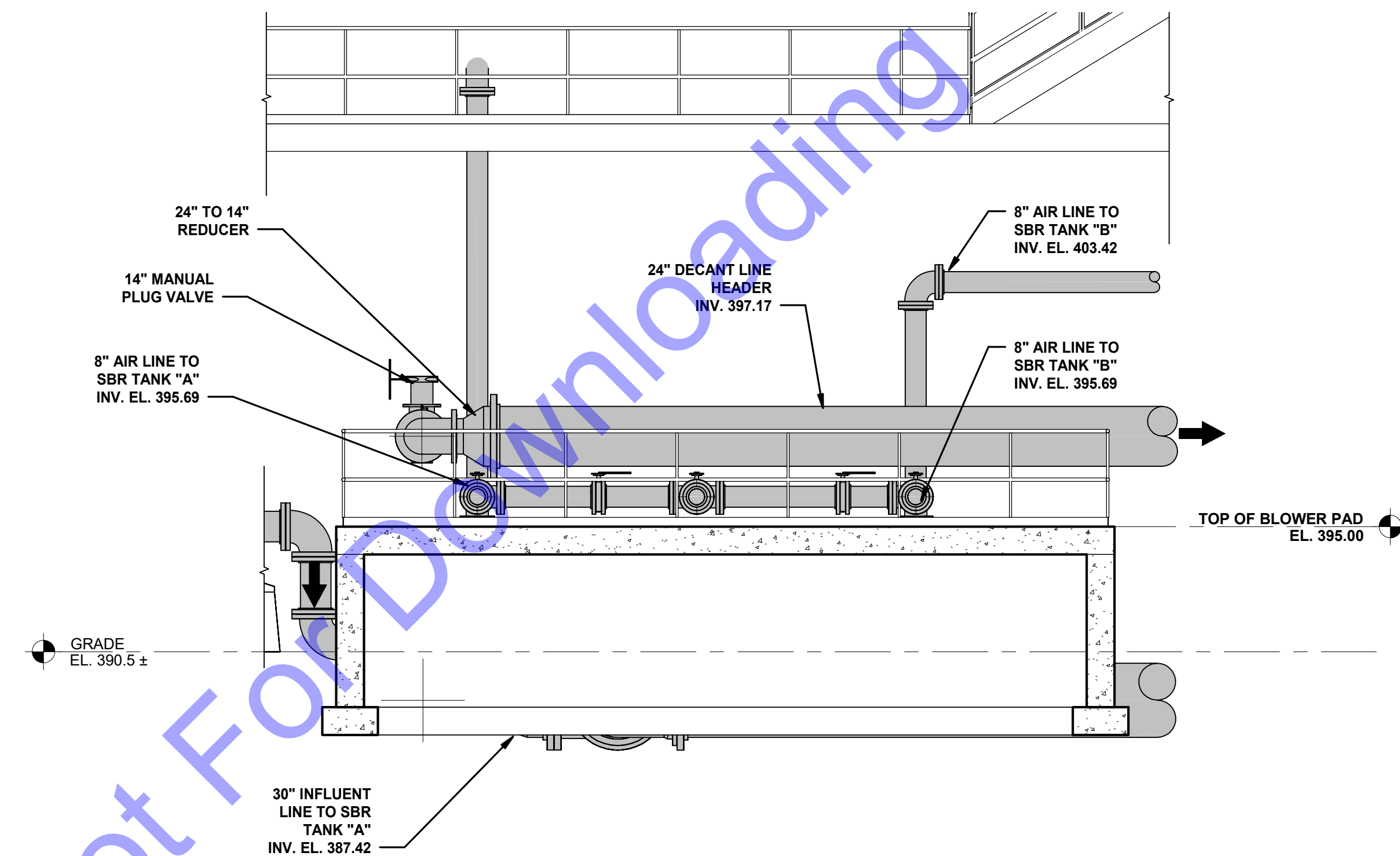
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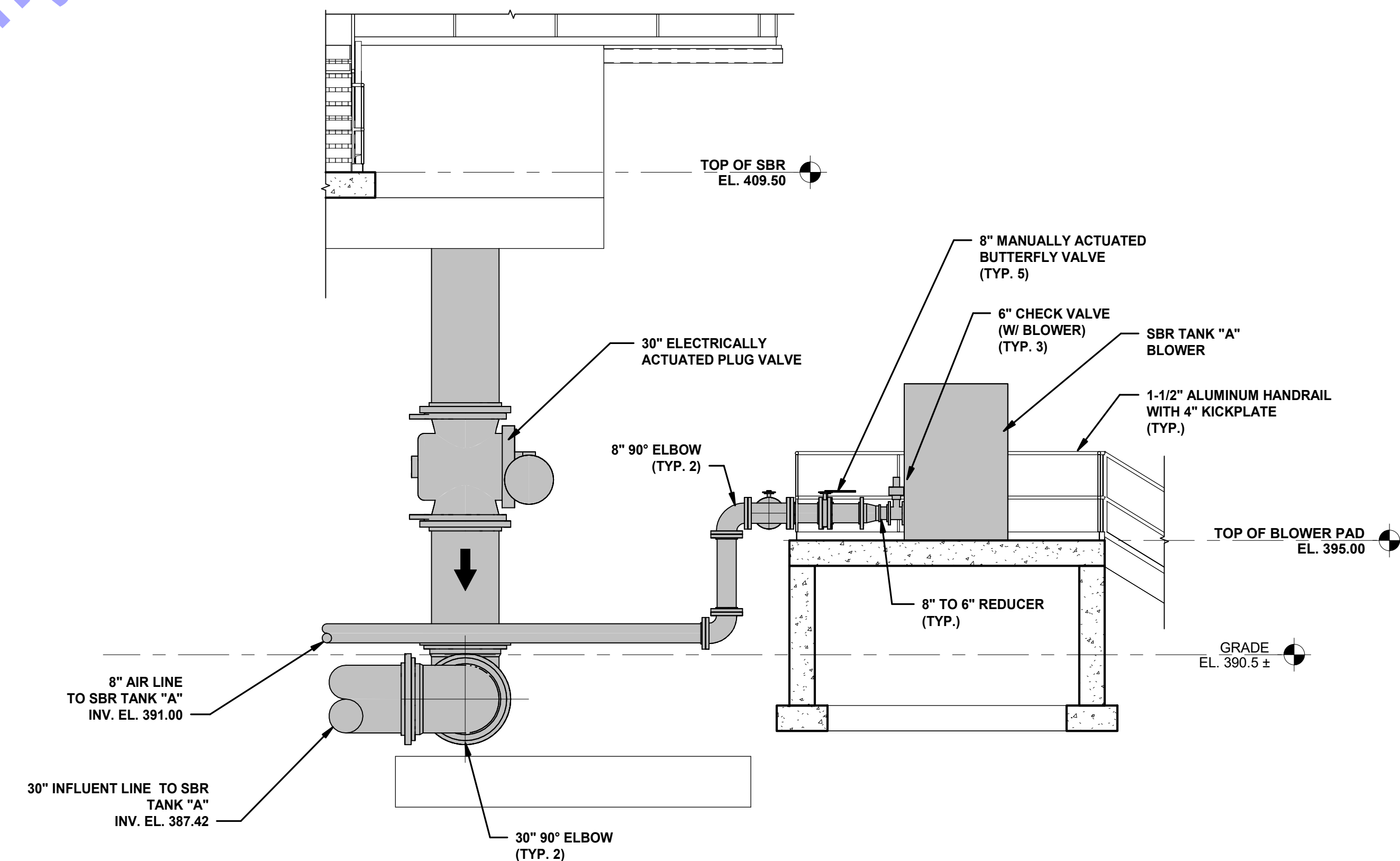
PLAN
SCALE: 1/4" = 1'-0"
0' 2' 4' 8'



SECTION A
SCALE: 1/4" = 1'-0"
0' 2' 4' 8'



SECTION B
SCALE: 1/4" = 1'-0"
0' 2' 4' 8'



SECTION C
SCALE: 1/4" = 1'-0"
0' 2' 4' 8'

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Signature: *Eric T. Pars* Date: 1/24/24

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**NEW BLOWER PAD -
 PLAN AND SECTION
 VIEWS**

Drawing No:
D2-17

Sheet: 53 OF 177

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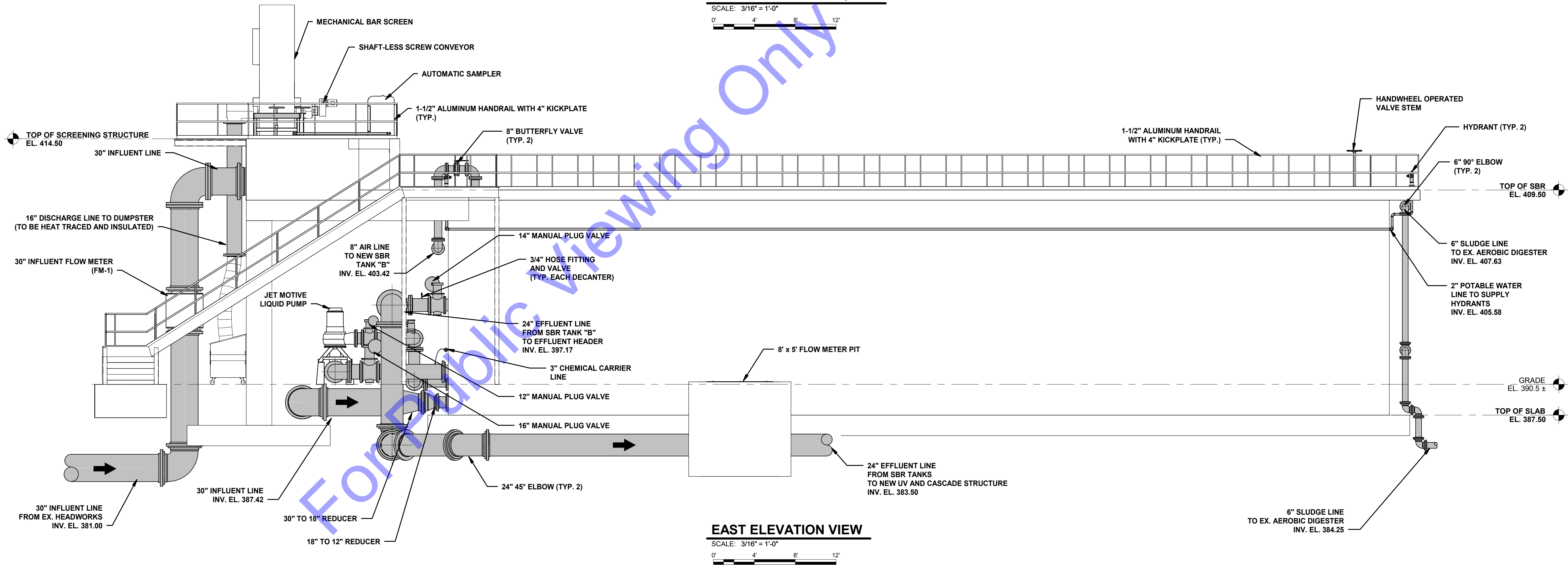
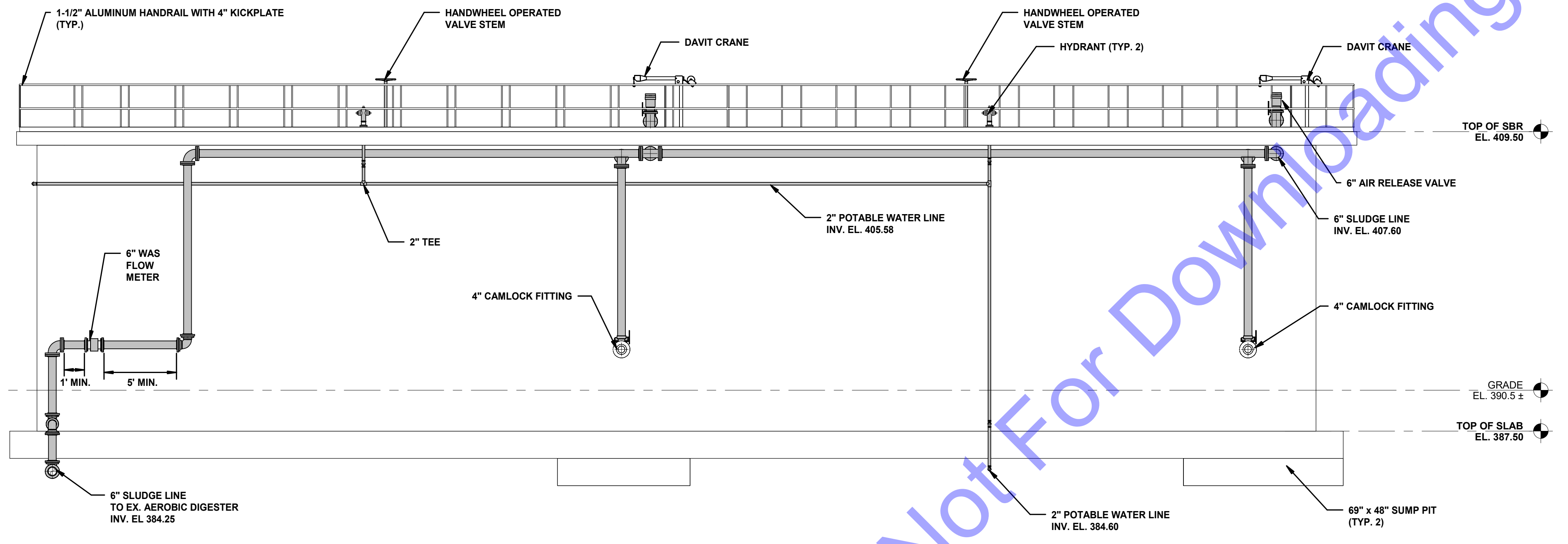
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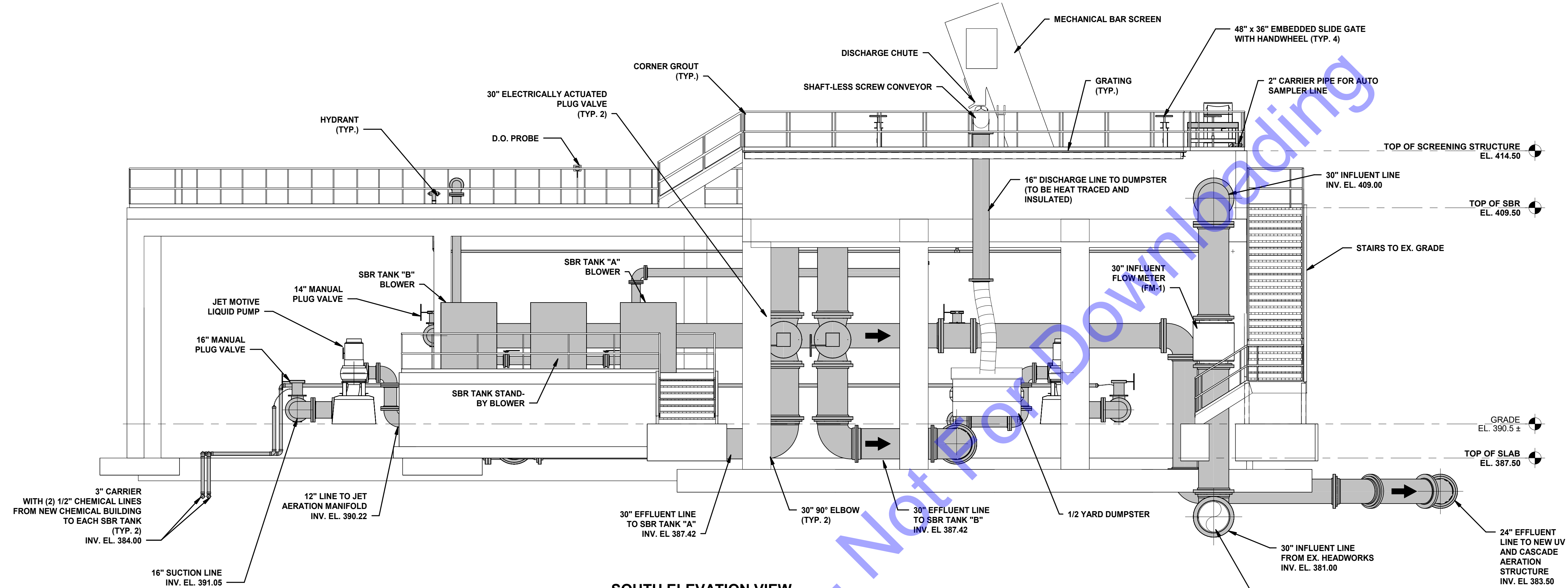
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NEW OVERALL TREATMENT STRUCTURE NORTH AND EAST ELEVATION VIEWS
 Drawing No: **D2-18**
 Sheet: 54 OF 177

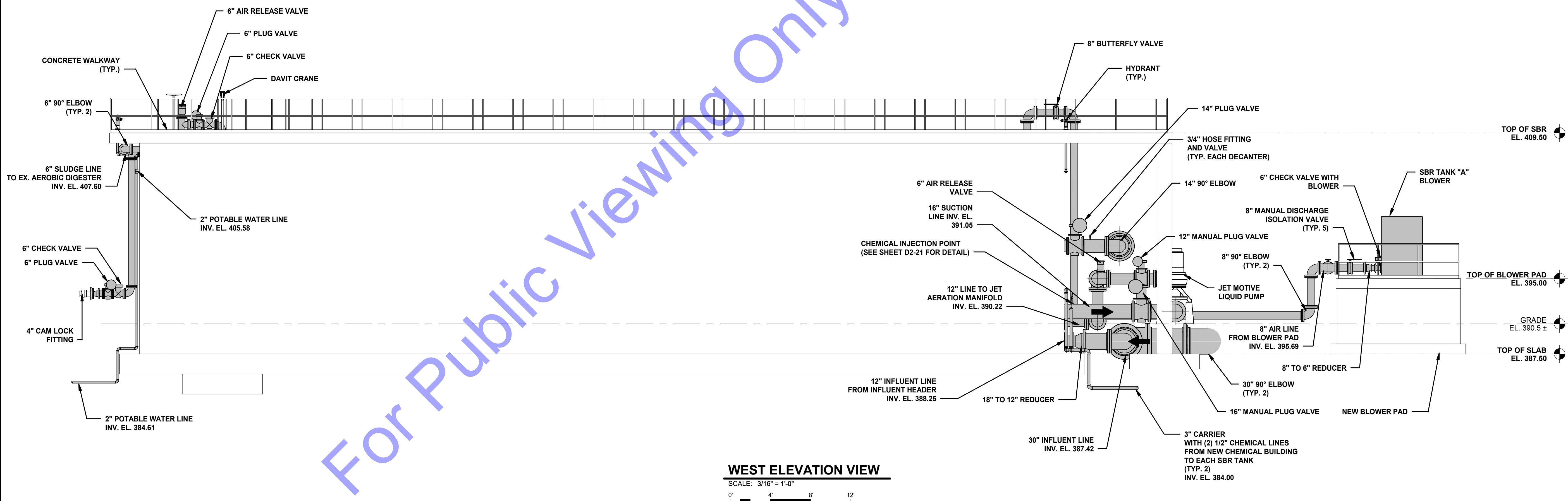


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SOUTH ELEVATION VIEW

SCALE: 3/16" = 1'-0"



WEST ELEVATION VIEW

SCALE: 3/16" = 1'-0"



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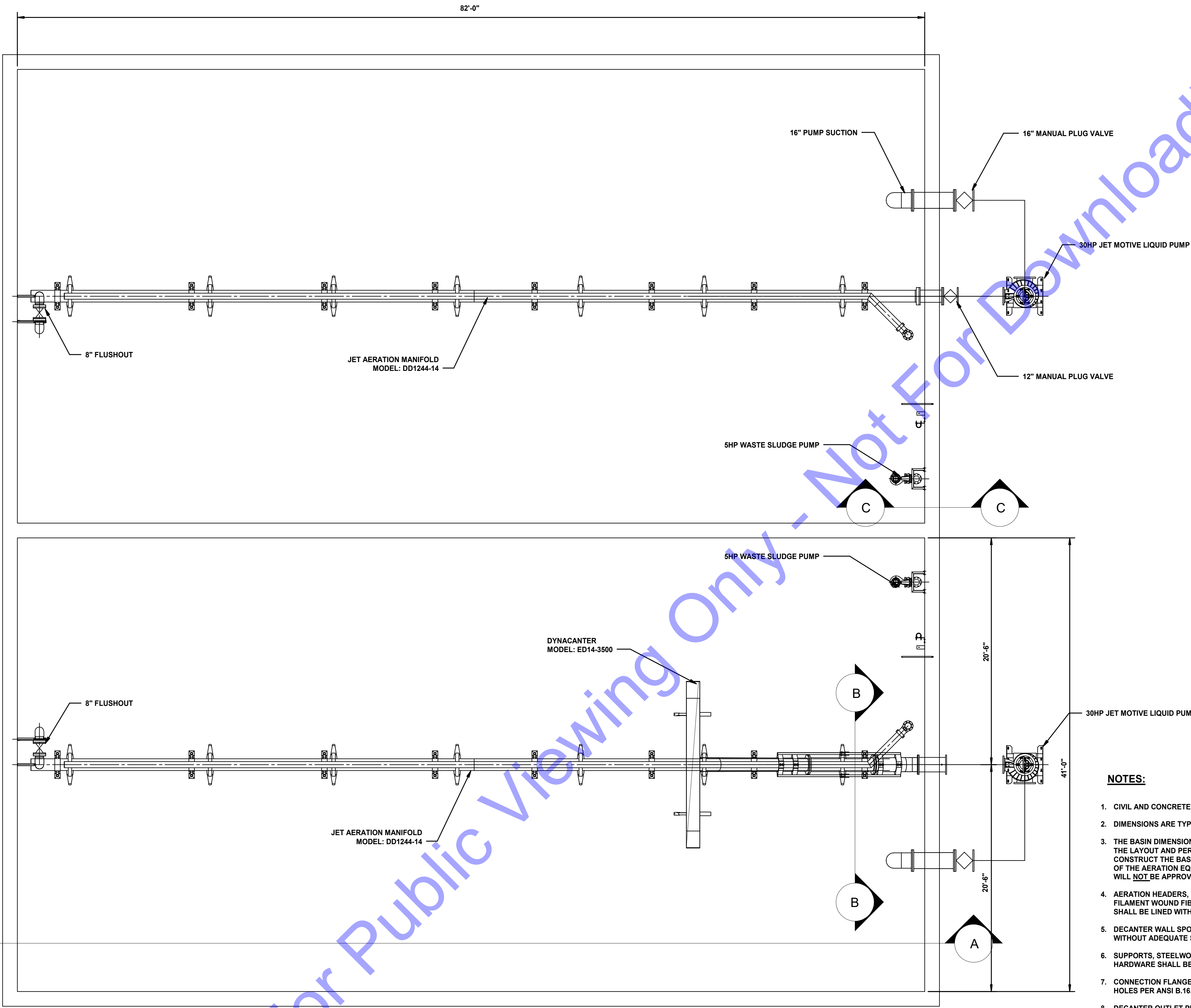
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NEW OVERALL TREATMENT STRUCTURE SOUTH AND WEST ELEVATION VIEWS

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- NOTES:**
1. CIVIL AND CONCRETE DESIGN NOT BY PARKSON.
 2. DIMENSIONS ARE TYPICAL UNLESS NOTED OTHERWISE.
 3. THE BASIN DIMENSIONS SHOWN IN THE GENERAL ARRANGEMENT AND SECTION DRAWINGS ARE CRITICAL TO THE LAYOUT AND PERFORMANCE OF THE ECO CYCLE SYSTEM. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONSTRUCT THE BASIN FLOOR AND WALLS TO CONFORM TO THESE DIMENSIONS PRIOR TO INSTALLATION OF THE AERATION EQUIPMENT. BASINS NOT CONFORMING TO THE DIMENSIONS SHOWN ON THE DRAWINGS WILL NOT BE APPROVED FOR INSTALLATION OF THE AERATION EQUIPMENT SUPPLIED FOR THIS PROJECT.
 4. AERATION HEADERS, FLOW CONTROL MANIFOLDS, DECANTERS AND AIR PIPE SHALL BE FABRICATED FROM FILAMENT WOUND FIBERGLASS REINFORCED PLASTIC PIPE PER ASTM D2996-01 SPECIFICATIONS. NOZZLES SHALL BE LINED WITH A COMBINED INTEGRAL C-GLASS, NEXUS, SILICON CARBIDE VEIL.
 5. DECANTER WALL SPOOLS MUST BE CAST-IN-PLACE. LINK-SEAL TYPE SPOOLS ARE NOT RECOMMENDED WITHOUT ADEQUATE SUPPORT.
 6. SUPPORTS, STEELWORK AND GUIDE RAILS FURNISHED BY PARKSON SHALL BE TYPE 304 STAINLESS STEEL. HARDWARE SHALL BE 304 SS.
 7. CONNECTION FLANGES SHALL MEET OUTSIDE DIAMETER, BOLT CIRCLE DIAMETER, NUMBER AND SIZE OF HOLES PER ANSI B.16.1 125 LB. CAST IRON, AND ANSI B16.5 150 LB. STEEL FLANGE SPECIFICATIONS.
 8. DECANTER OUTLET PIPING MUST HAVE A TRAP OR SUBMERGED OUTLET TO PREVENT AIR FROM ENTERING THE EFFLUENT PIPING SYSTEM.
 9. CONTRACTOR MUST PROVIDE A 3/4" NIPPLE, 3/4" VALVE, AND A 3/4" WATER HOSE CONNECTION 2FT (MIN) ABOVE GRADE FOR FILLING THE SBR DECANTER AT START-UP OR EACH TIME THE DECANTER IS TAKEN OUT AND RE-INITIATED INTO SERVICE AND ALSO TO VENT ANY TRAPPED AIR.
 10. PUMP SEAL WATER TO BE PROVIDED BY OTHERS.
 11. AIR VENT/RELEASE VALVE MUST BE PLACED AT THE HIGHEST POINT OF THE MOTIVE PUMP DISCHARGE LINE AND INFLUENT PIPE TO ALLOW THE EVACUATION OF AIR.

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 No. 10200330
 STATE OF INDIANA
 ERIC T. PARS, ET AL.
 Signature: [Signature] Date: 1/24/24

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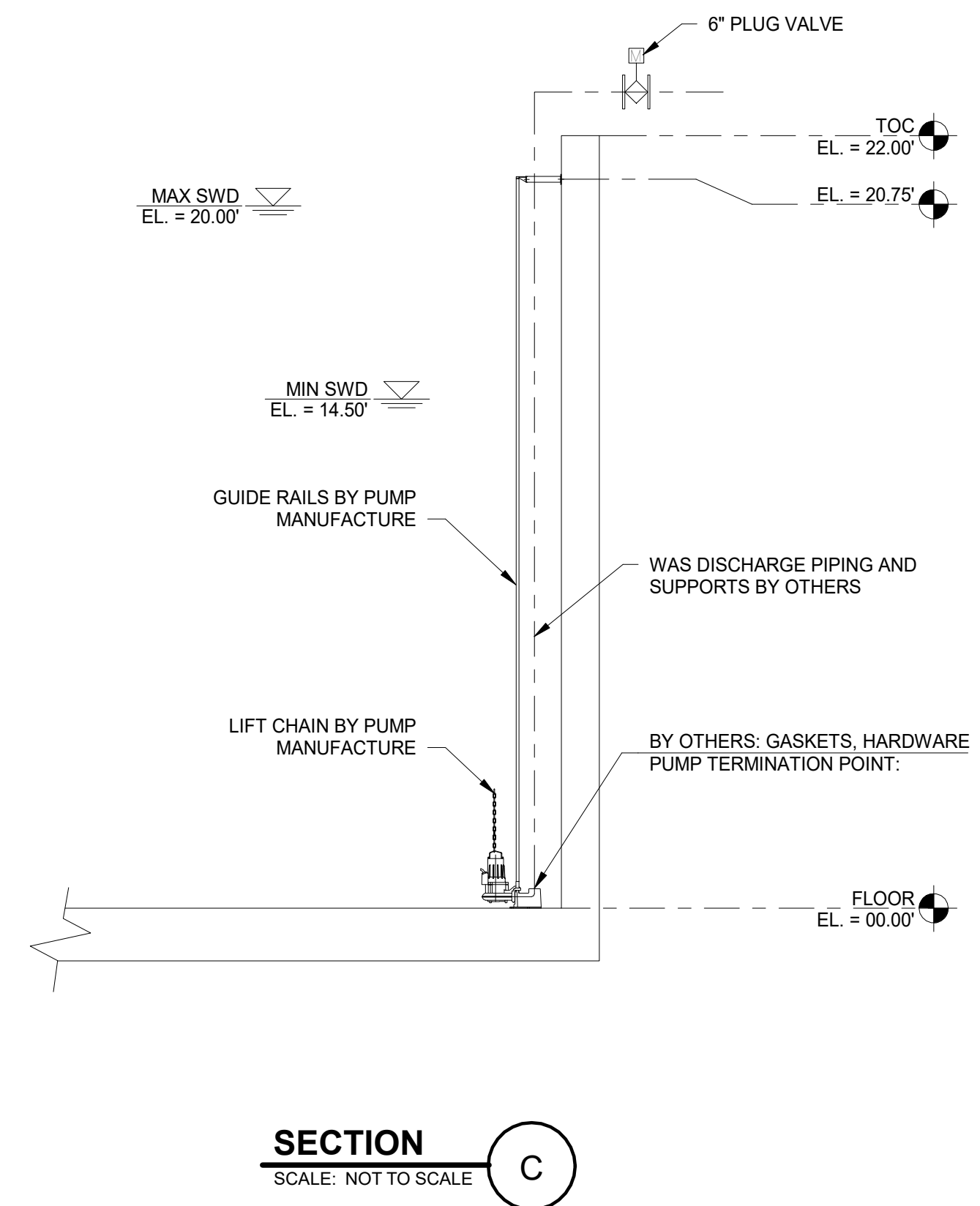
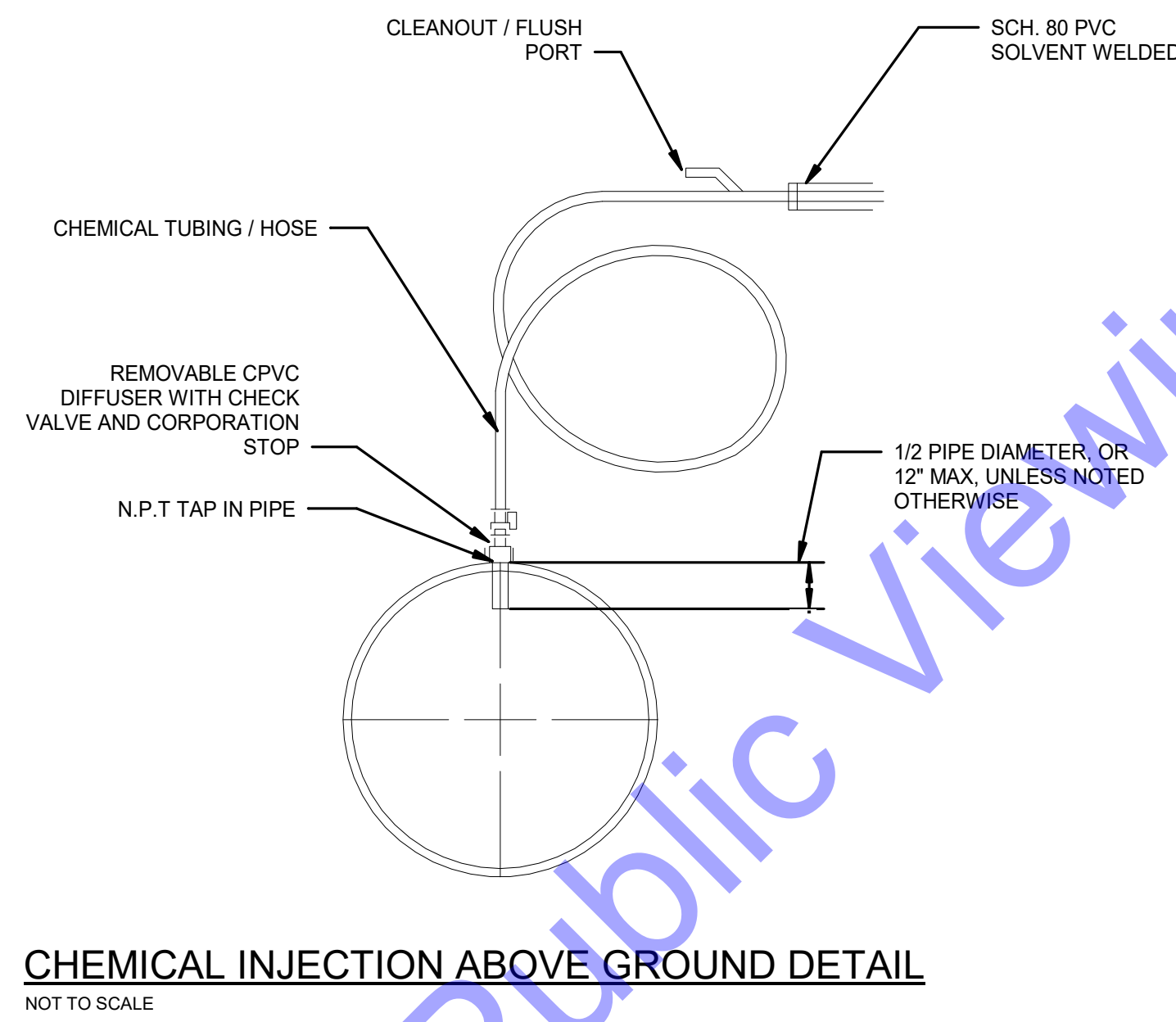
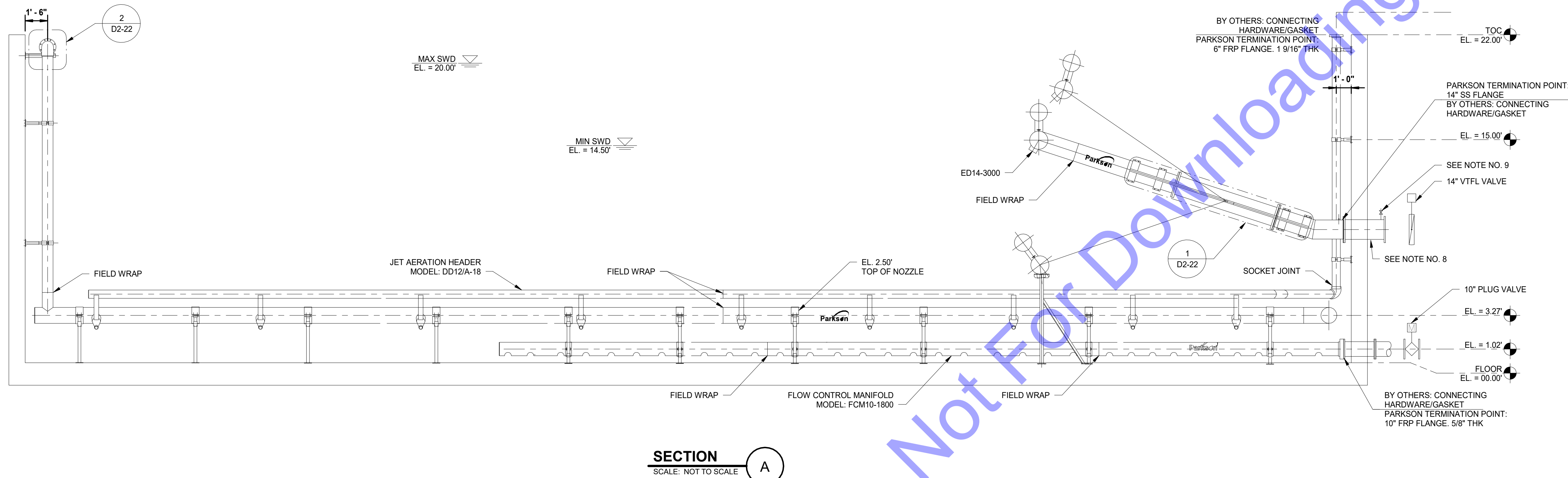
Designed By: JE
 Drawn By: MNM
 Checked By: EP

Issue Date: JAN. 2024
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NEW SBR TREATMENT FACILITY - EQUIPMENT DETAILS

Drawing No:
D2-20
 Sheet: 56 OF 177

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 No. 10200330
 STATE OF INDIANA
 PROFESSIONAL ENGINEER
 Signature: [Signature] Date: 1/24/24

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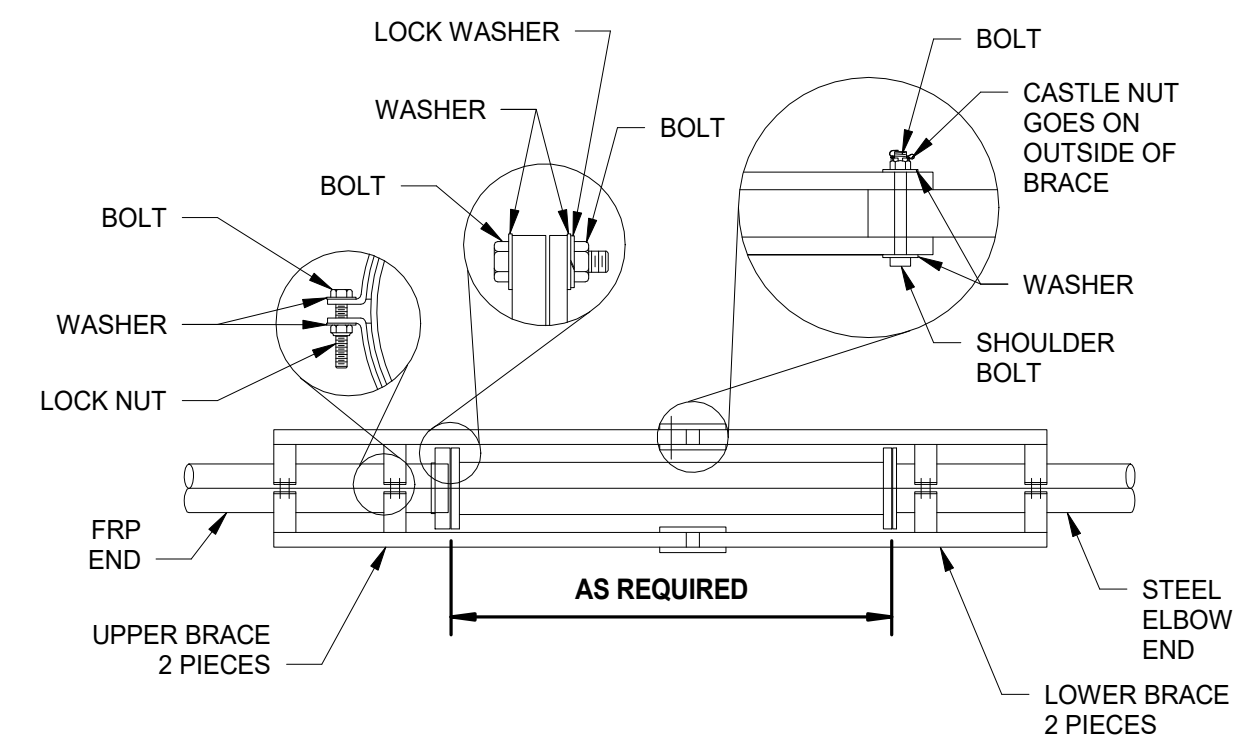
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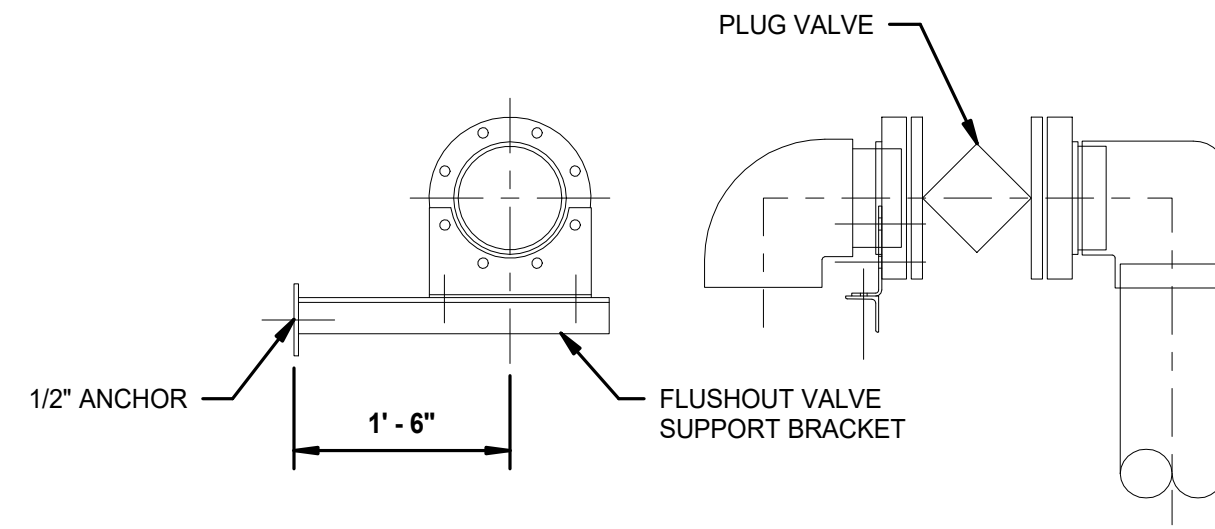
Designed By:	Drawn By:	Checked By:
JE	MNM	EP
Issue Date:	Project No:	Scale:
JAN. 2024	S20107	AS SHOWN

NEW SBR
 TREATMENT FACILITY
 - EQUIPMENT
 DETAILS
 Drawing No:
D2-21
 Sheet: 57 OF 177

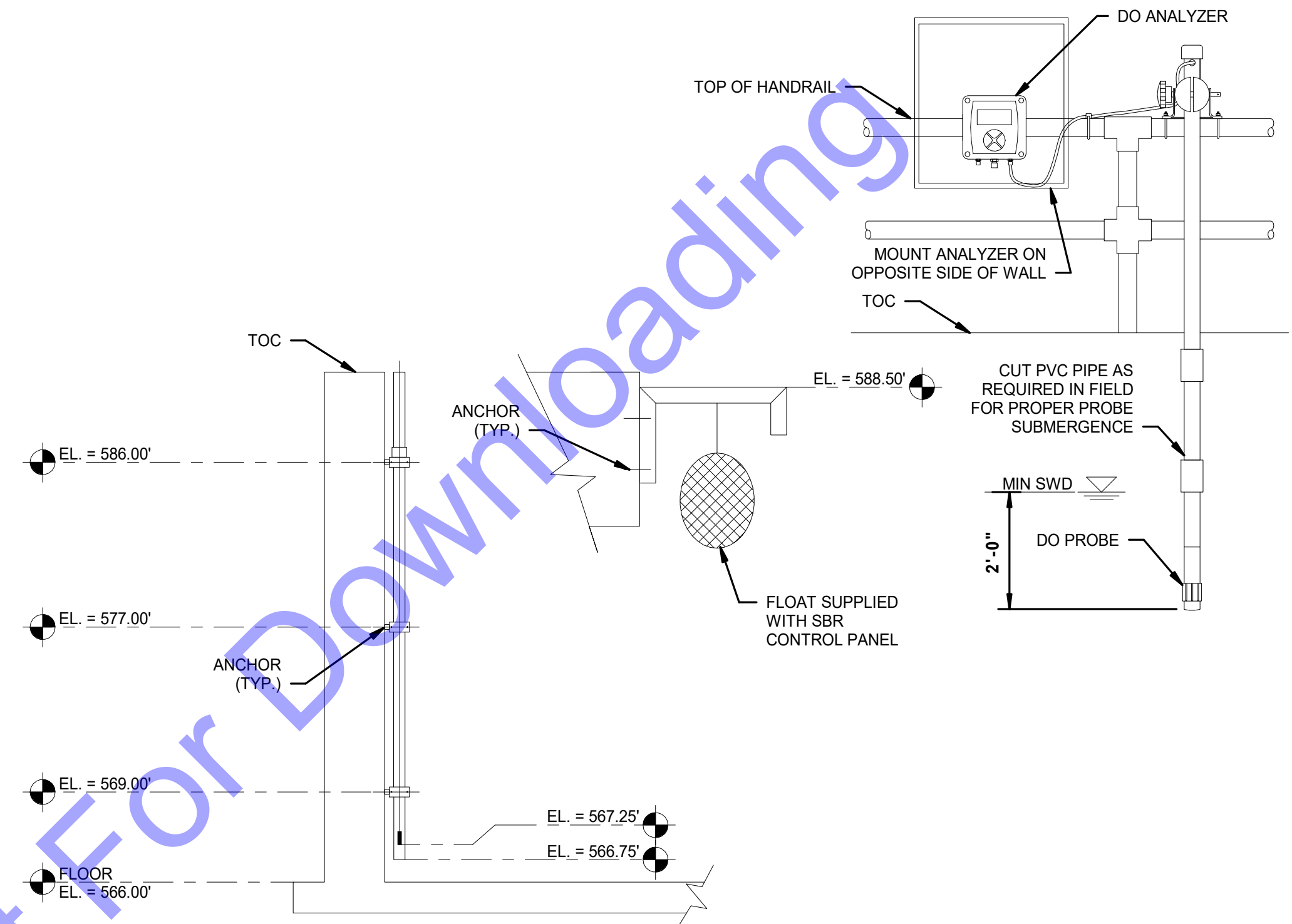
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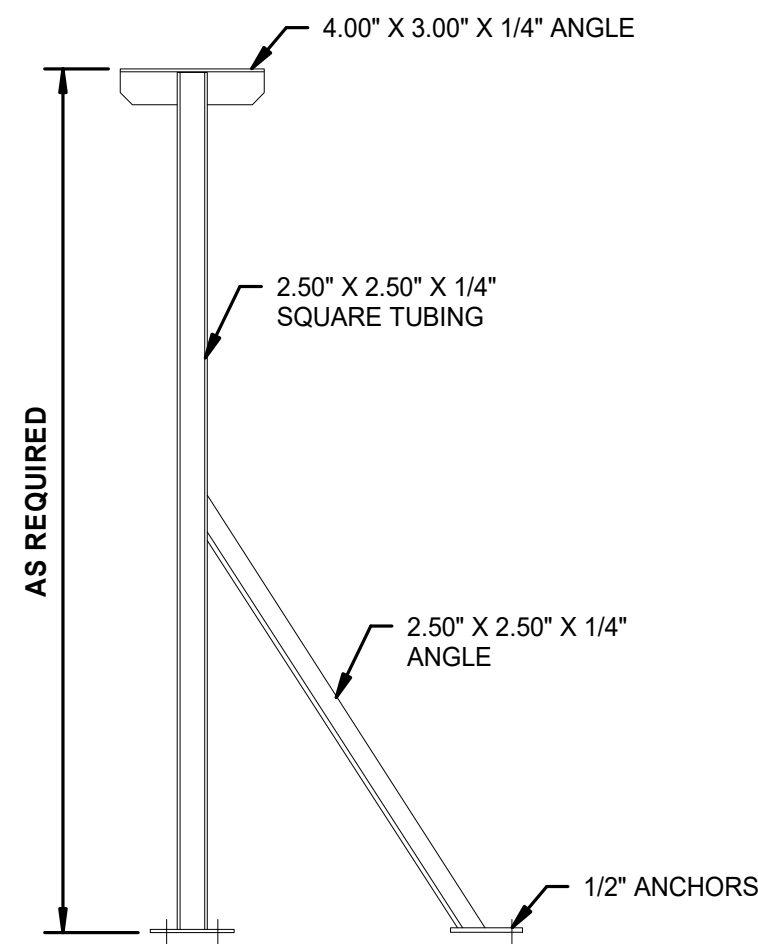
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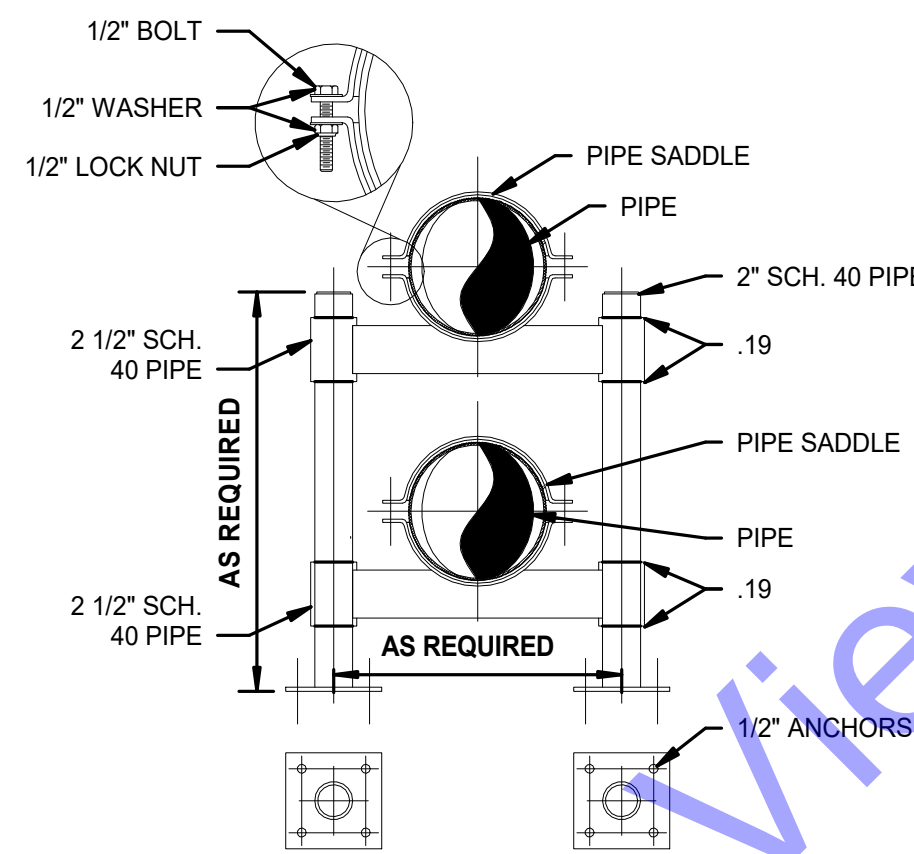
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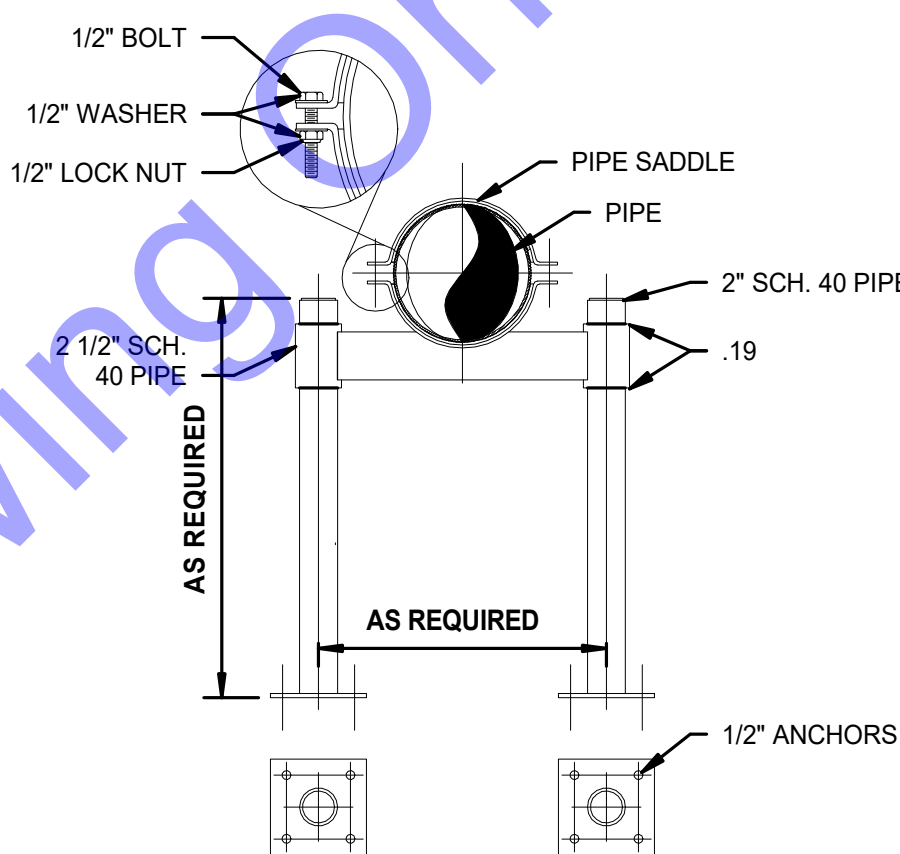
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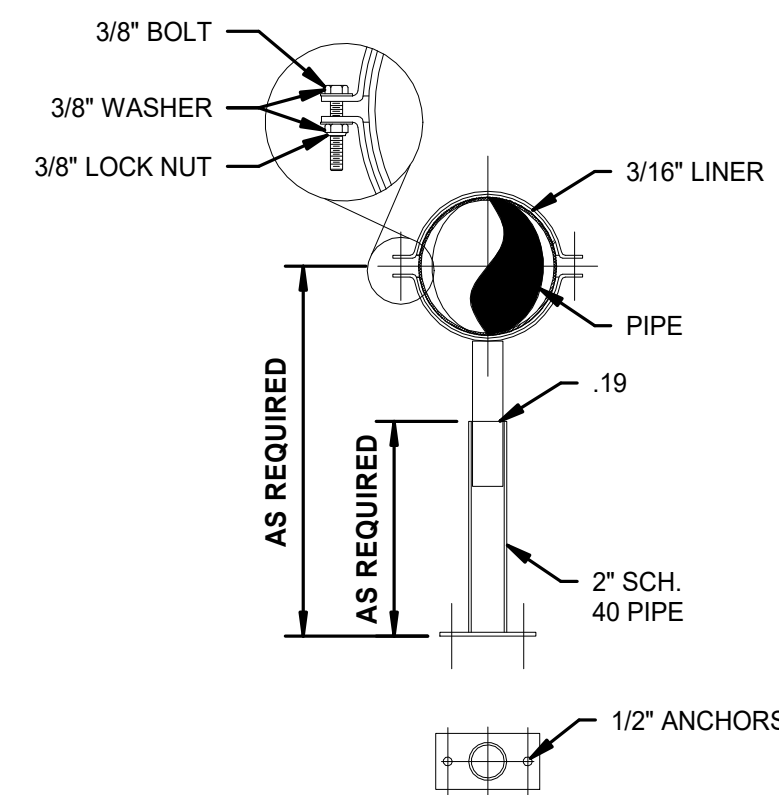
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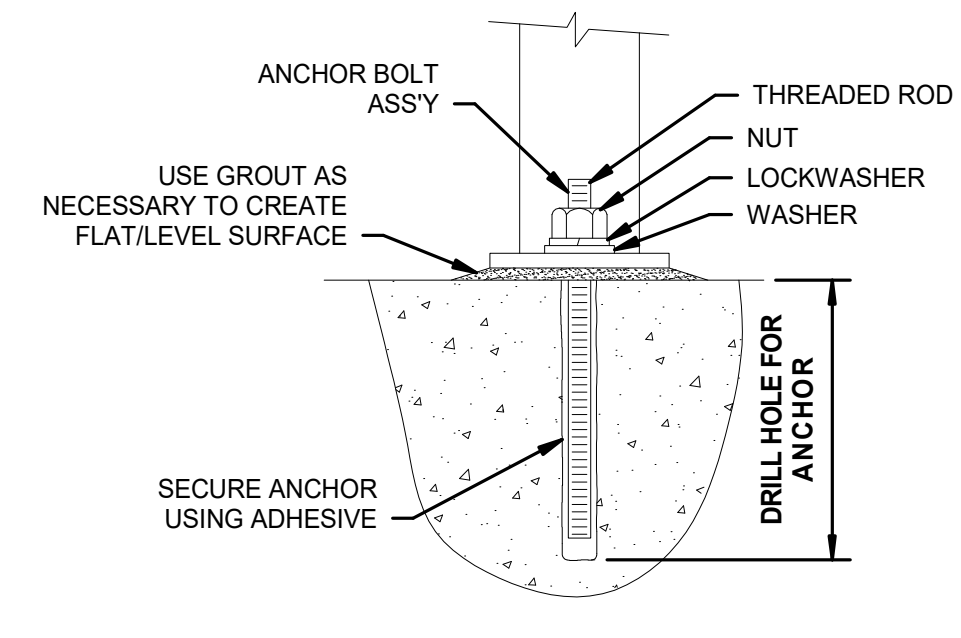
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SCALE: NOT TO SCALE



PIPE SUPPORT DETAIL
SCALE: NOT TO SCALE



PIPE SUPPORT DETAIL
SCALE: NOT TO SCALE



TYPICAL ANCHOR DETAIL
SCALE: NOT TO SCALE

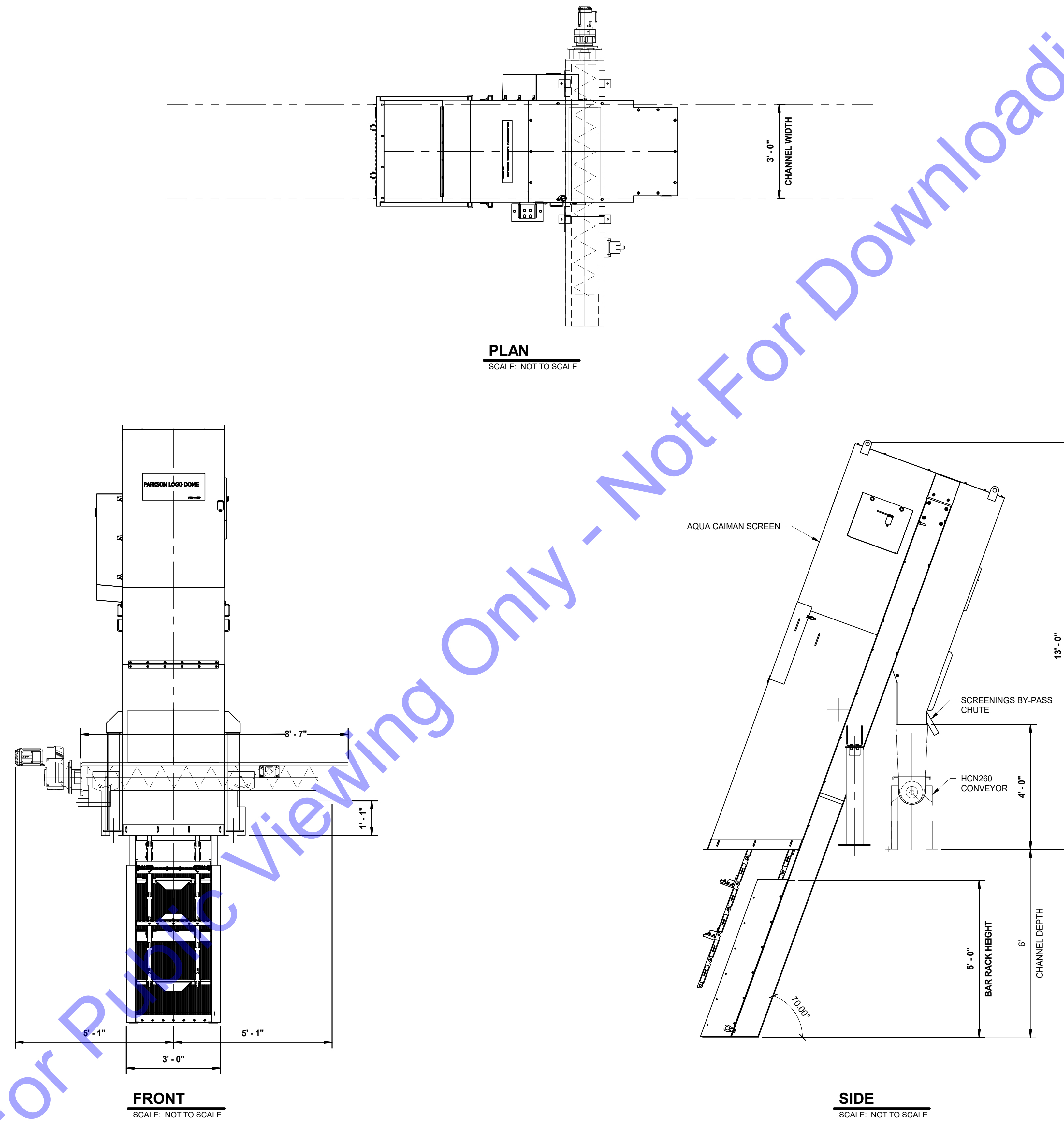
NOTES:

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NEW SBR TREATMENT FACILITY - EQUIPMENT DETAILS



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NOTES:

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2. CONTRACTOR TO PROCURE AND INSTALL HEAT TRACING AND INSULATION FOR SCREEN, CONVEYOR, AND DISCHARGE CHUTE.

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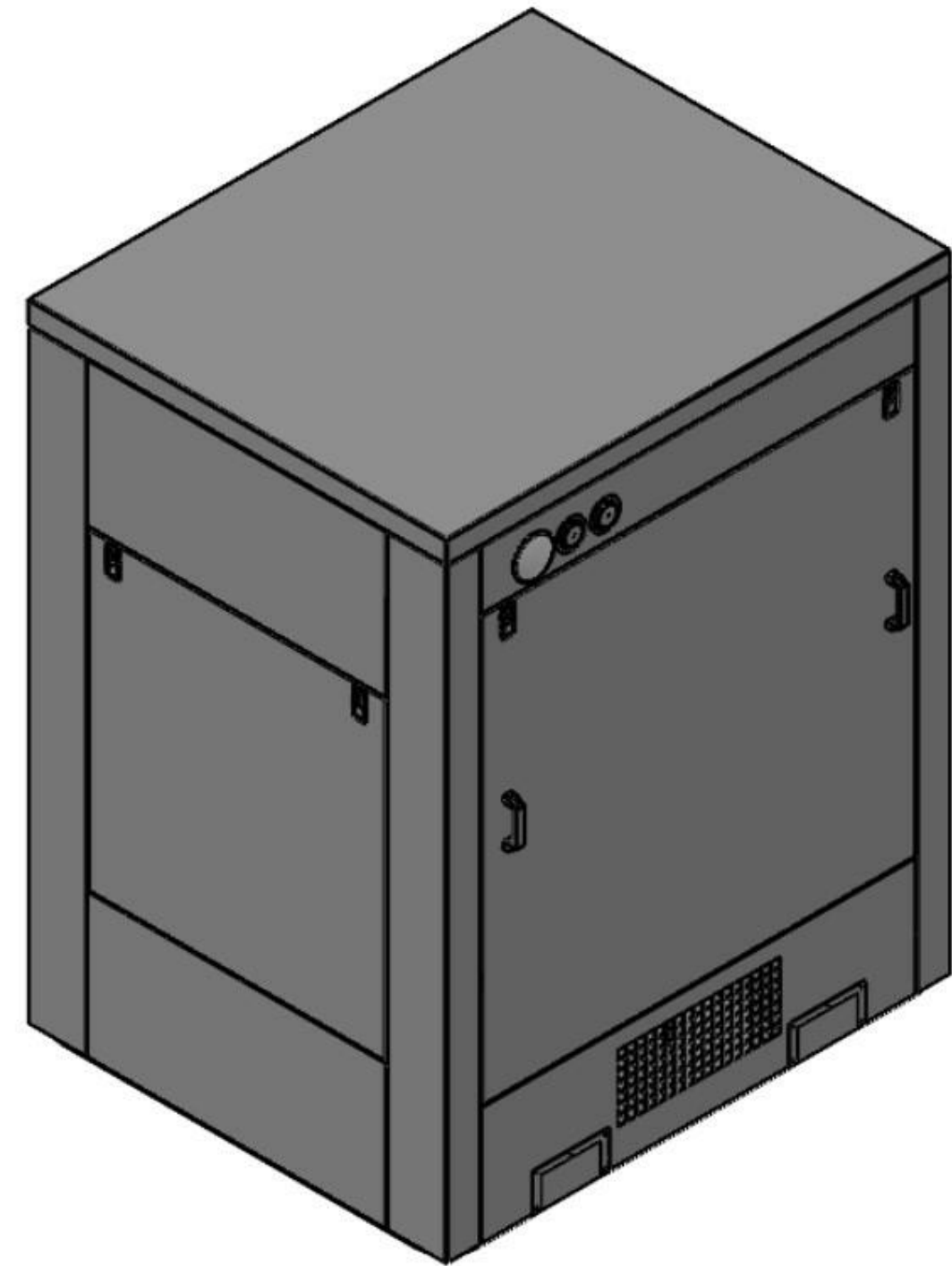
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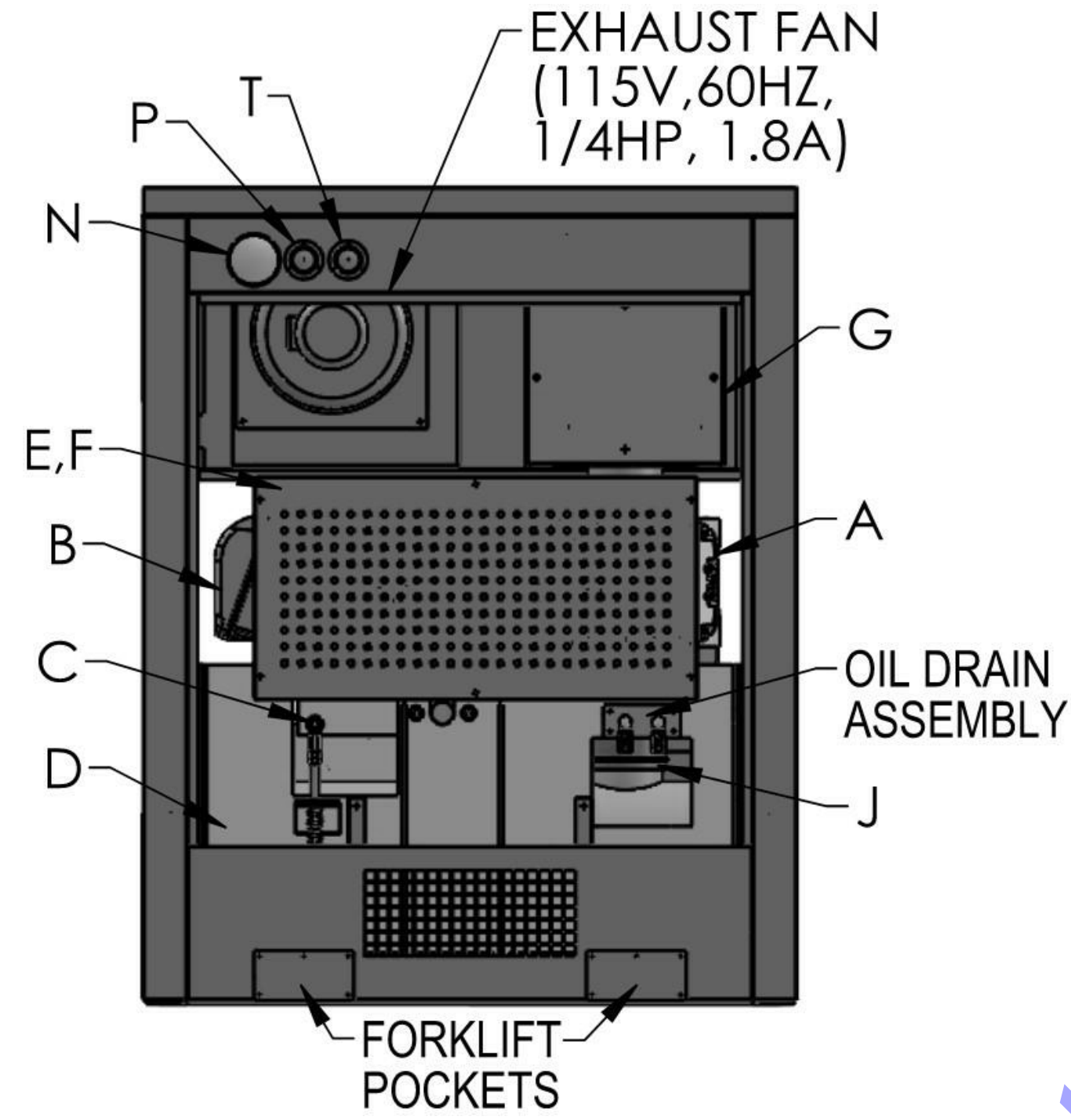
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Issue Date: JAN. 2024	Project No: S20107	Scale: AS SHOWN

**NEW SBR
 TREATMENT FACILITY
 - EQUIPMENT
 DETAILS**

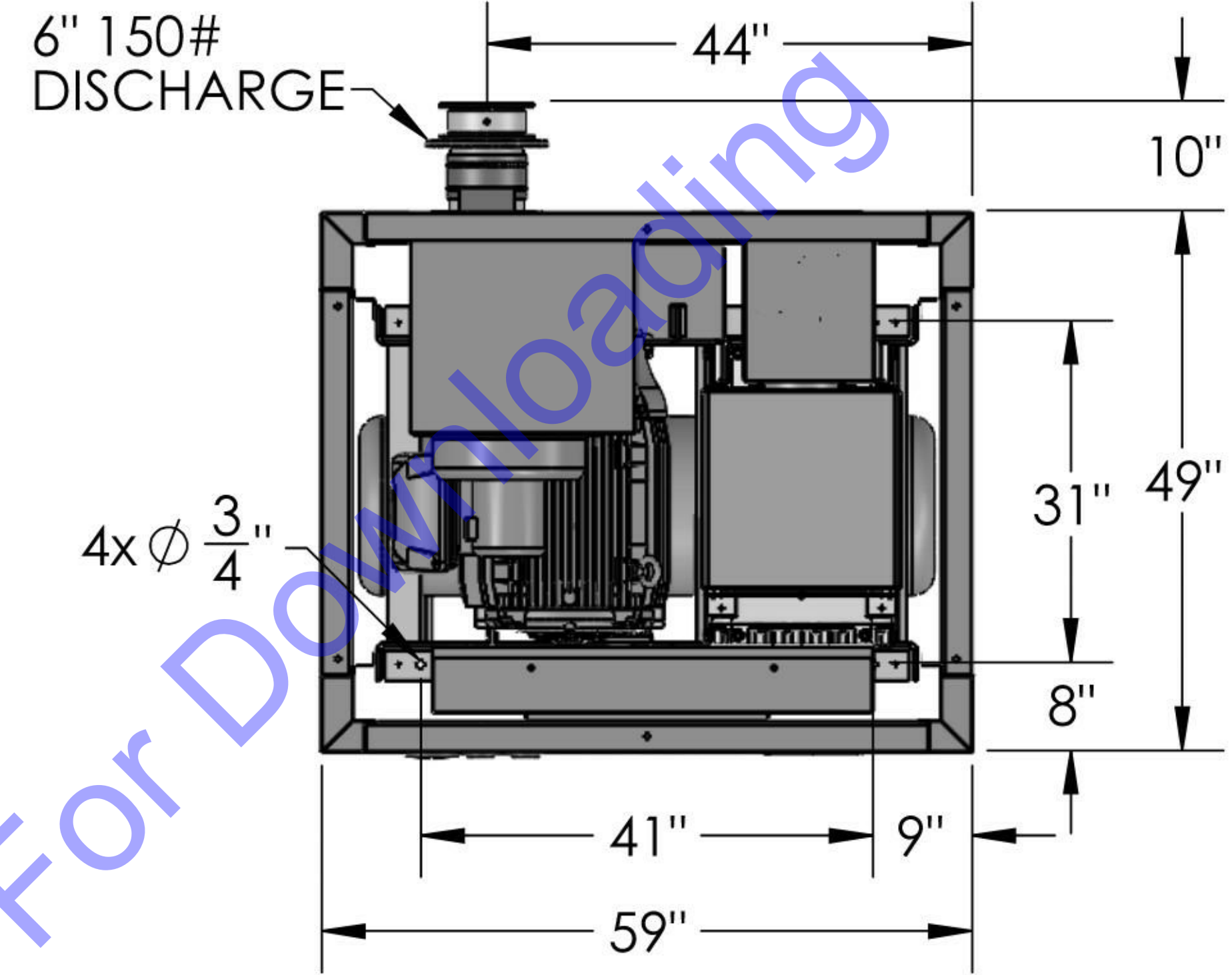
Drawing No:
D2-23
 Sheet: 69 OF 177



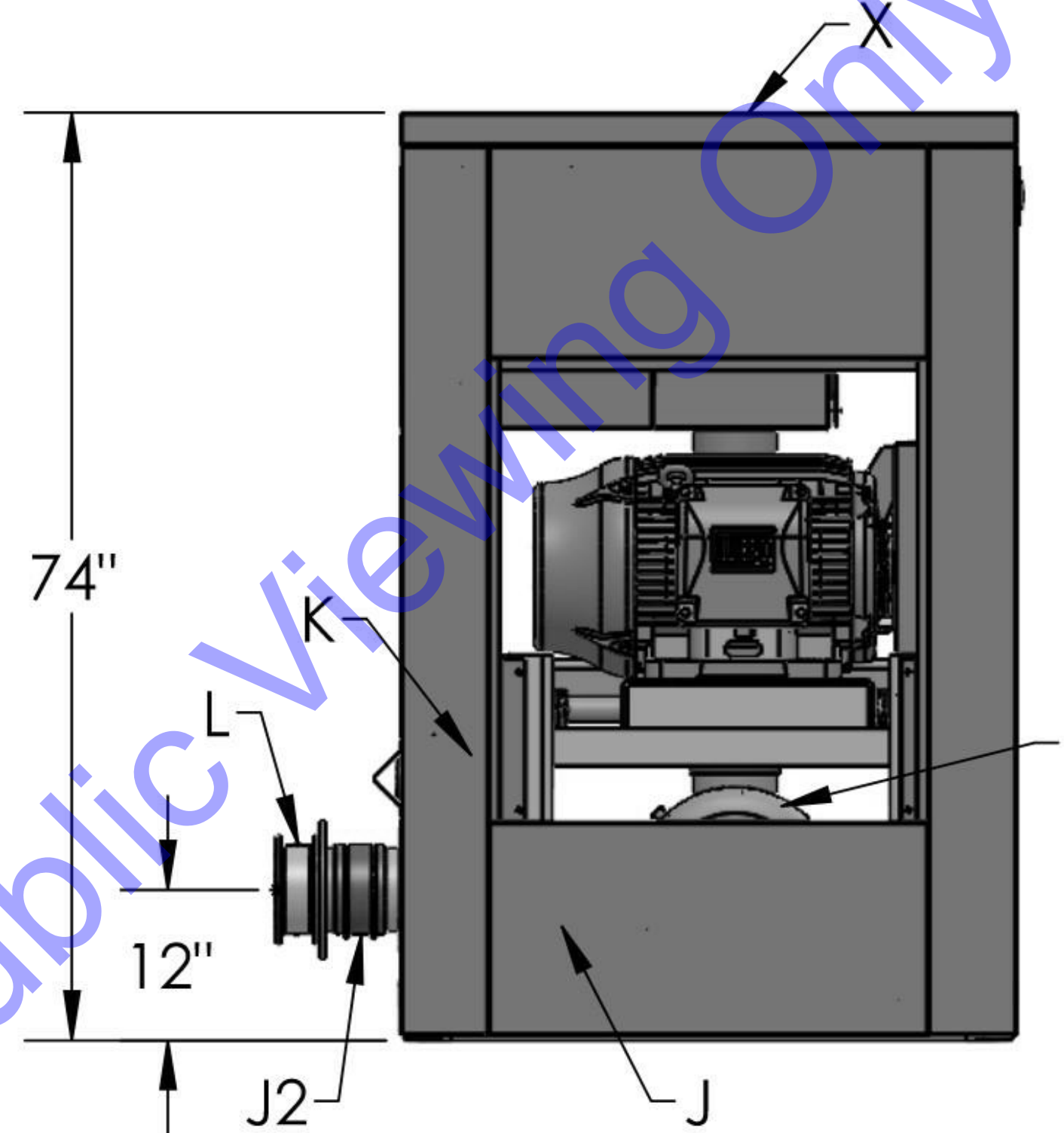
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SCALE: NOT TO SCALE



BACK
SCALE: NOT TO SCALE



PLAN
SCALE: NOT TO SCALE

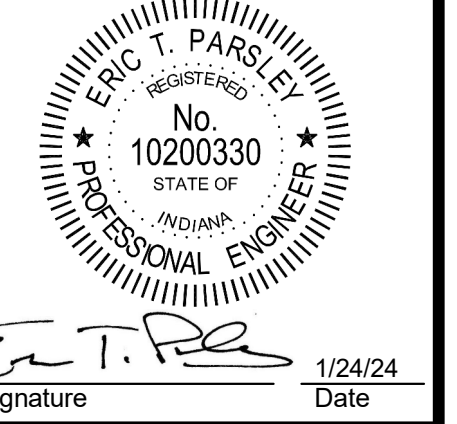
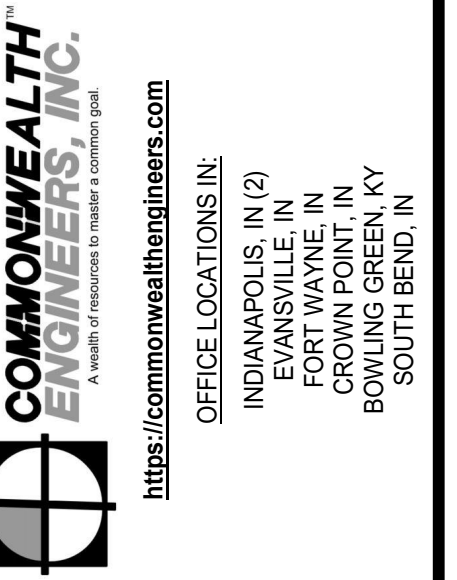


SIDE
SCALE: NOT TO SCALE

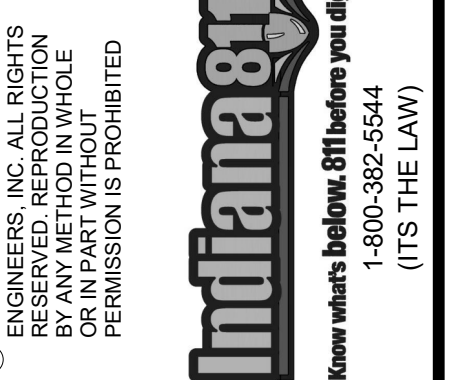
Letter	Description
A	BLOWER:
B	MOTOR: HP, 1800RPM, TEFC, T, 208-230/460/3/60
C	MOTOR TILT BASE
D	ELEVATED STEEL BASE
E	V-BELT DRIVE
	BLOWER SHEAVE:
	MOTOR SHEAVE:
	BELTS: CD =
F	BELT GUARD: STEEL
G	INLET FILTER SILENCER: 6"
I	DISCHARGE SILENCER: 6"
J	FLEXIBLE PIPE CONNECTOR: FLEX-FAB TYPE II & III
J2	DISCHARGE FLEXIBLE PIPE CONNECTOR: FLEX-FAB TYPE I
K	RELIEF VALVE:
L	CHECK VALVE: F.H. 518-6"
N	DIFFERENTIAL PRESSURE GAUGE: DWYER 2020, 0-20"WC
P	PRESSURE GAUGE: WKA 213.53, 2 1/2", 0-15 PSIG
T	TEMPERATURE GAUGE: WIKA TI.V25, 2 1/2", 30-300°F
X	NOISE ENCLOSURE: ALUMINUM EXTERIOR W/ ACOUSTIC FOAM, 4 TILT-OUT LATCHING DOORS, & EXHAUST FAN W/ T-STAT

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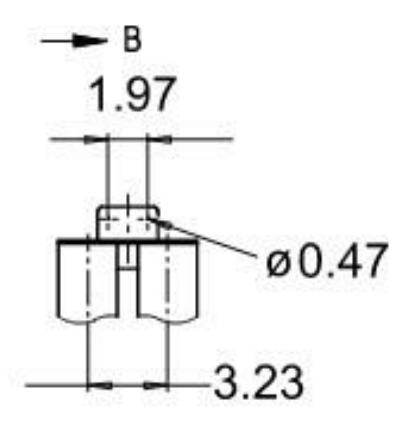
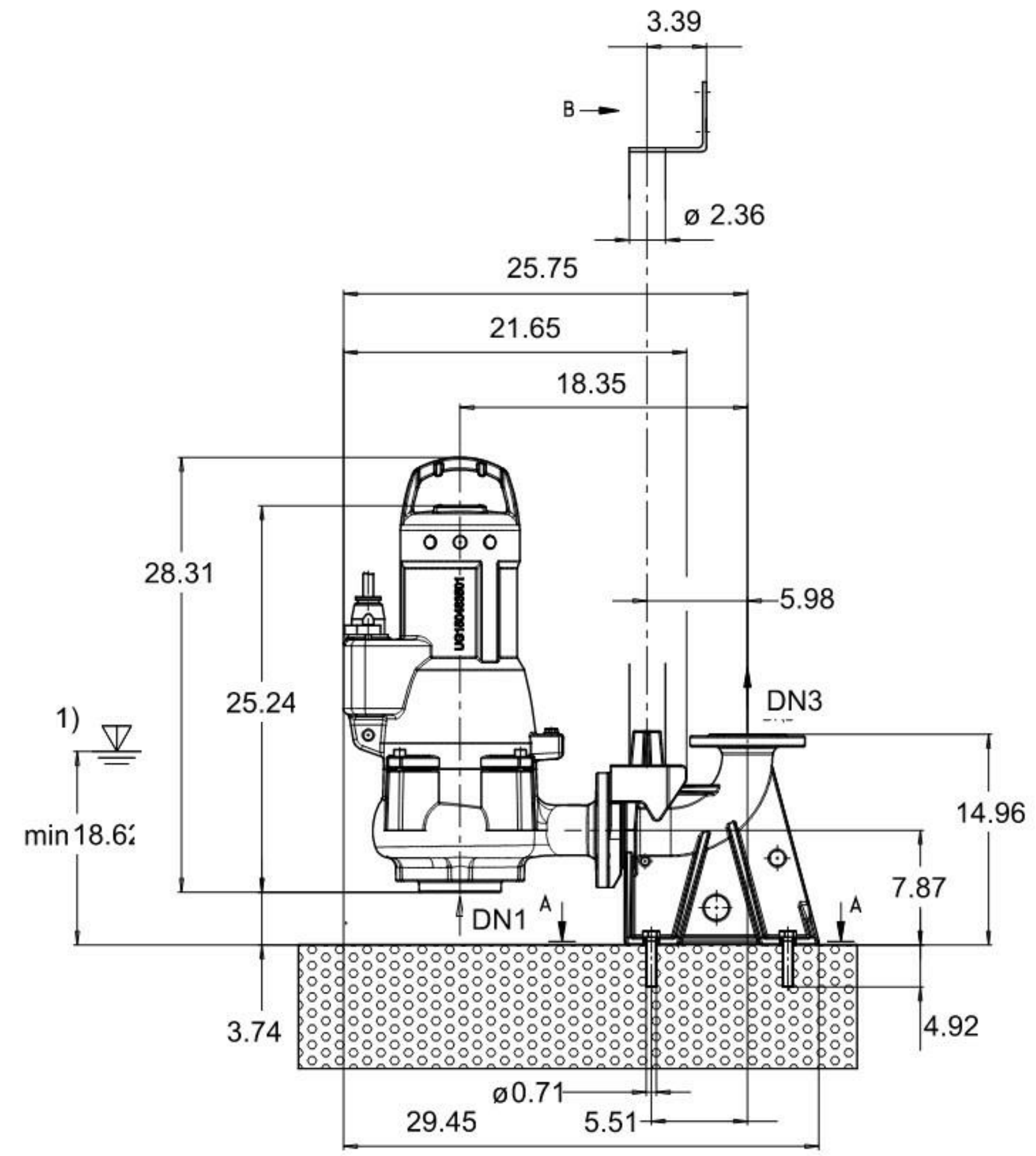
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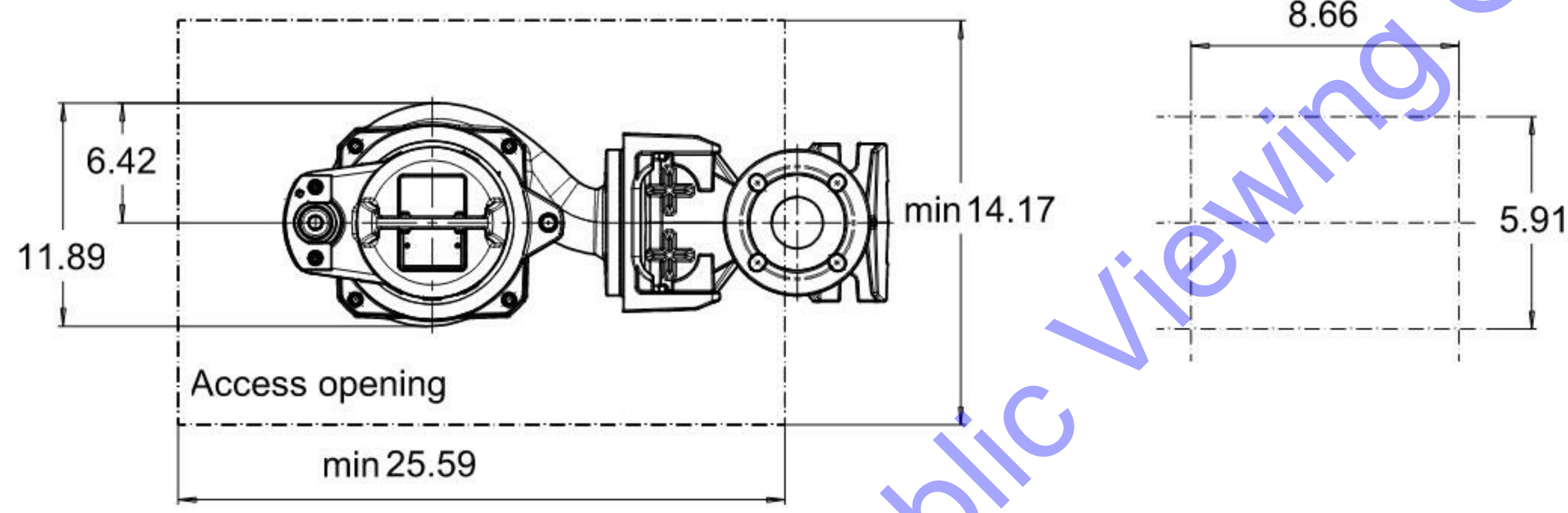
NEW SBR
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- EQUIPMENT
DETAILS

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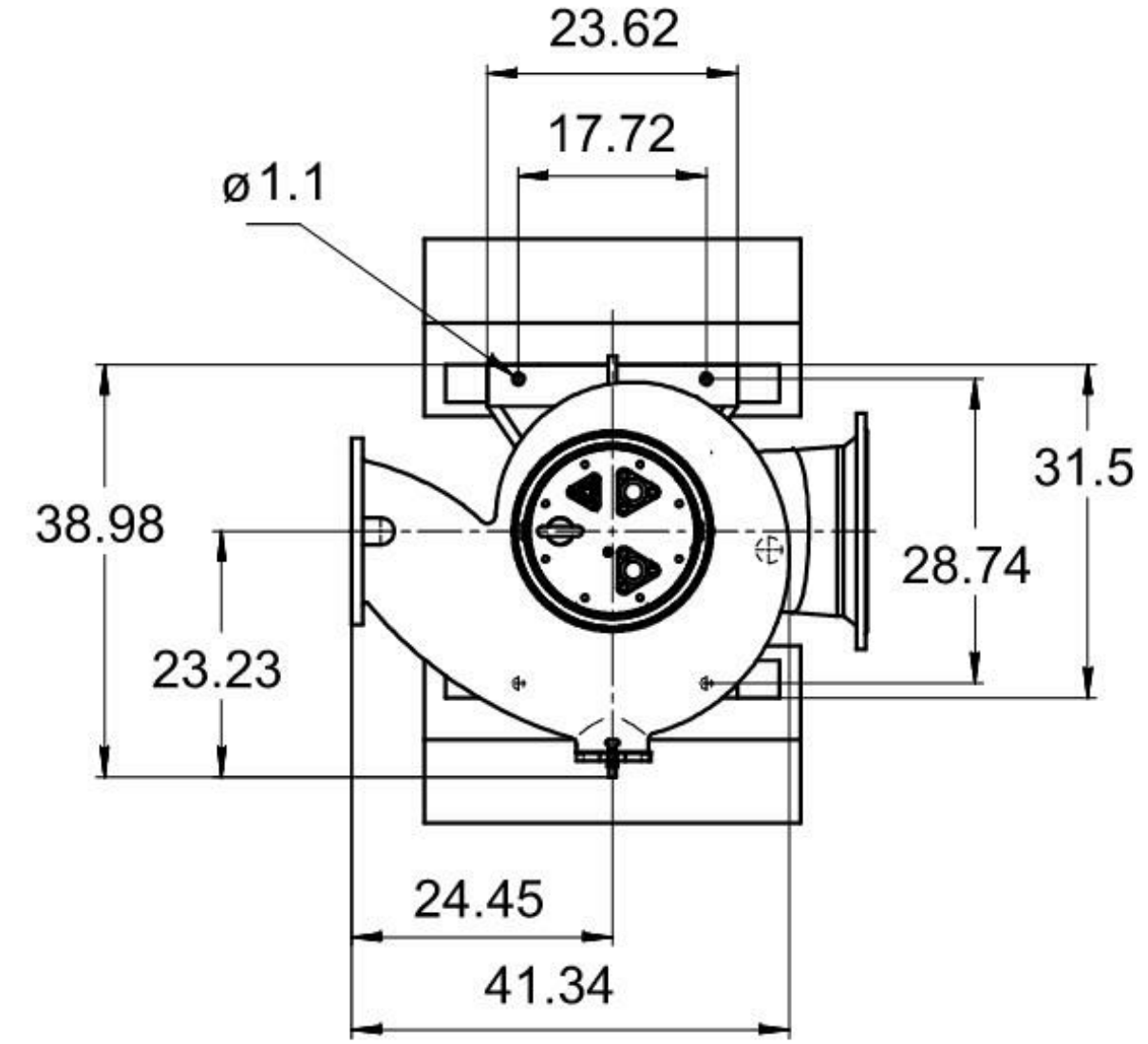
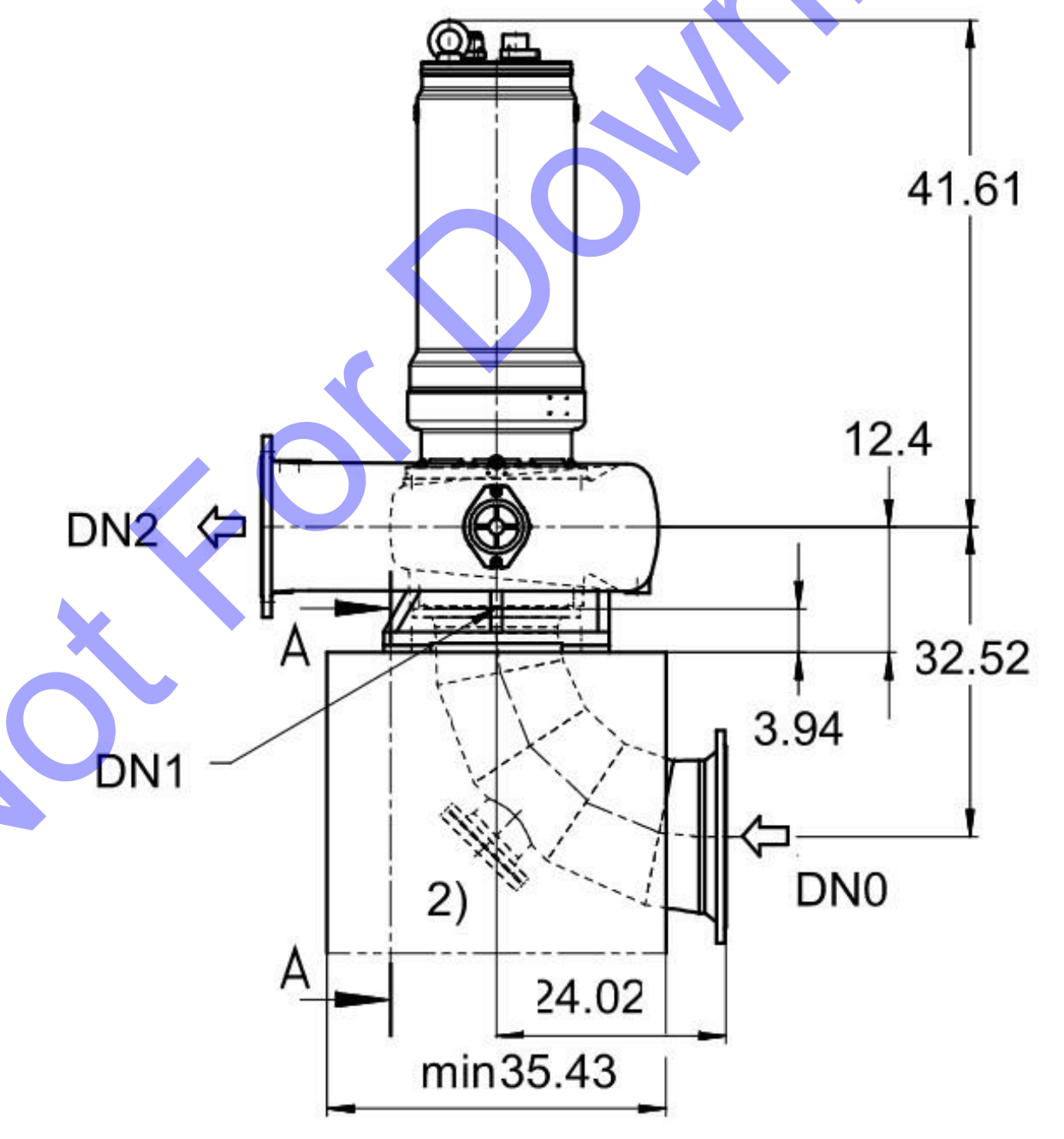
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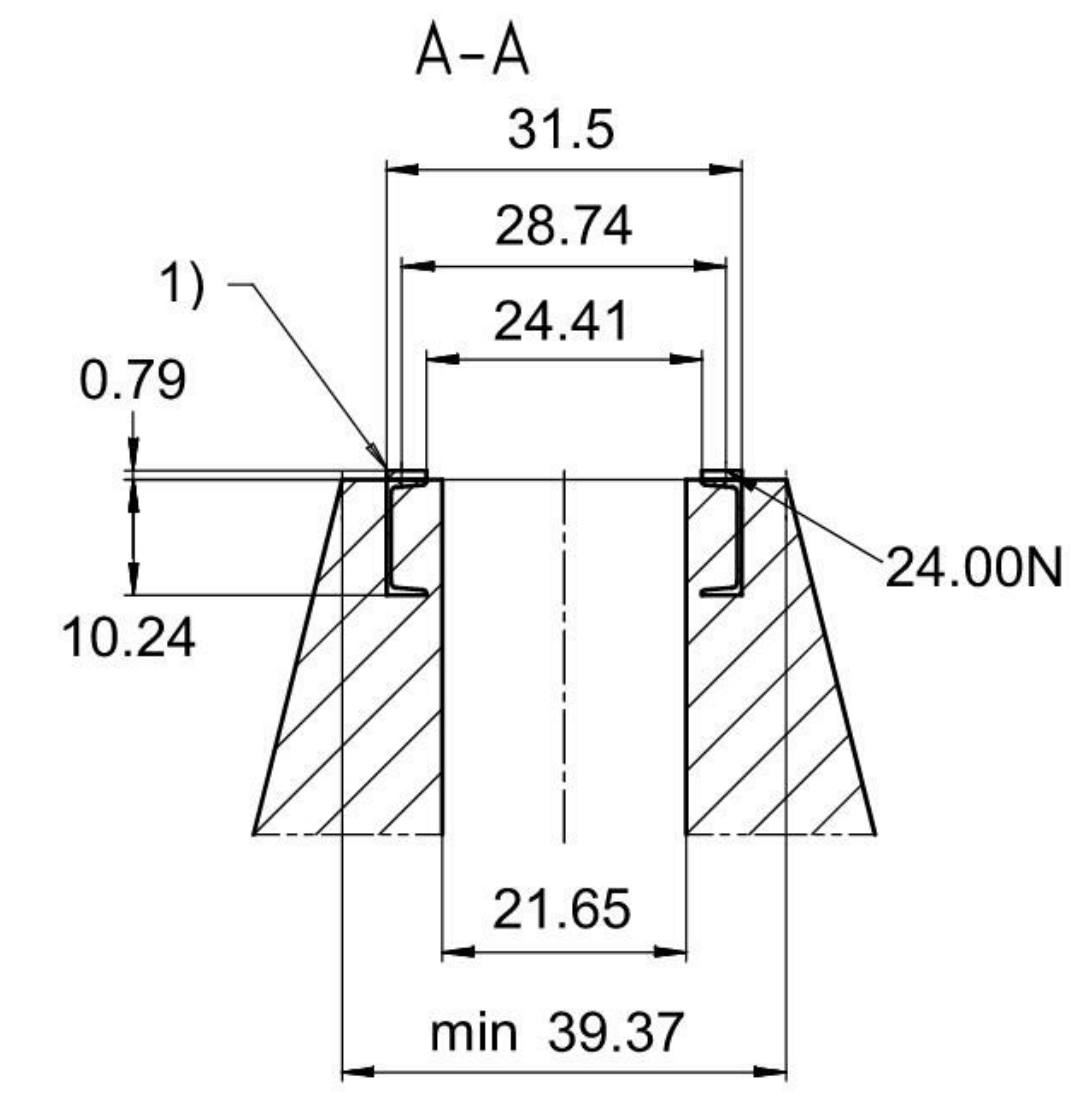
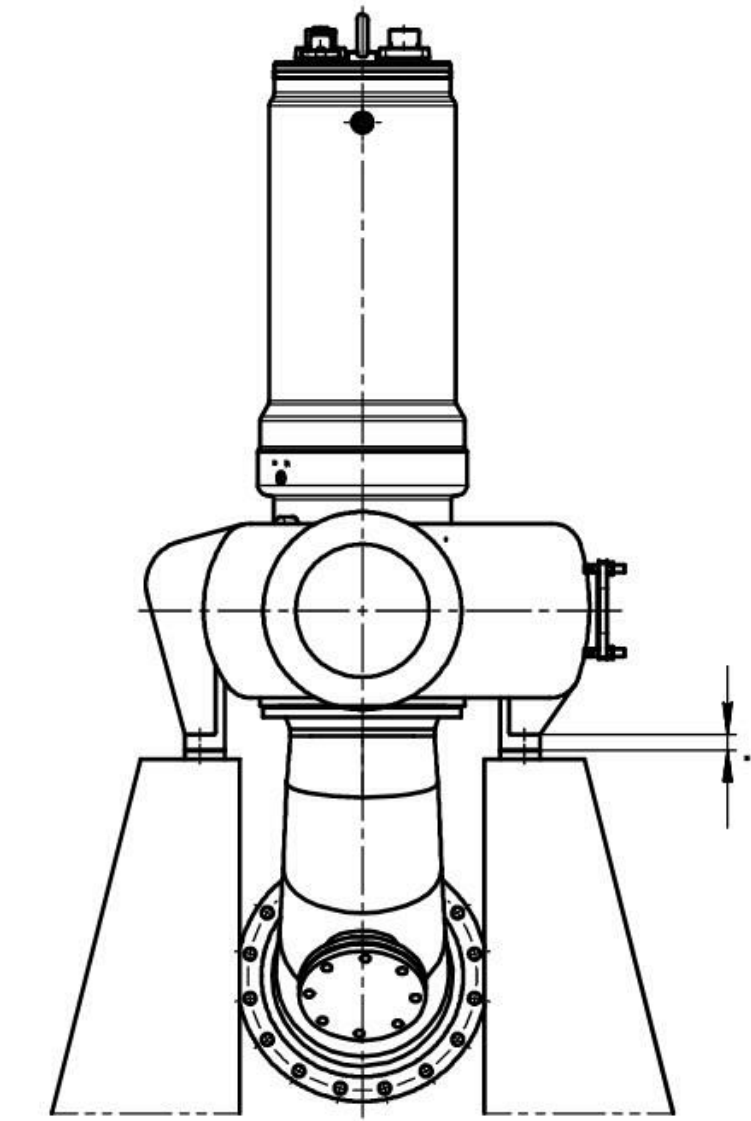
1) Minimum water level t1



WAS PUMP
SCALE: NOT TO SCALE



JET MOTIVE PUMP
SCALE: NOT TO SCALE



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Signature: *Eric T. Pars* Date: 1/24/24

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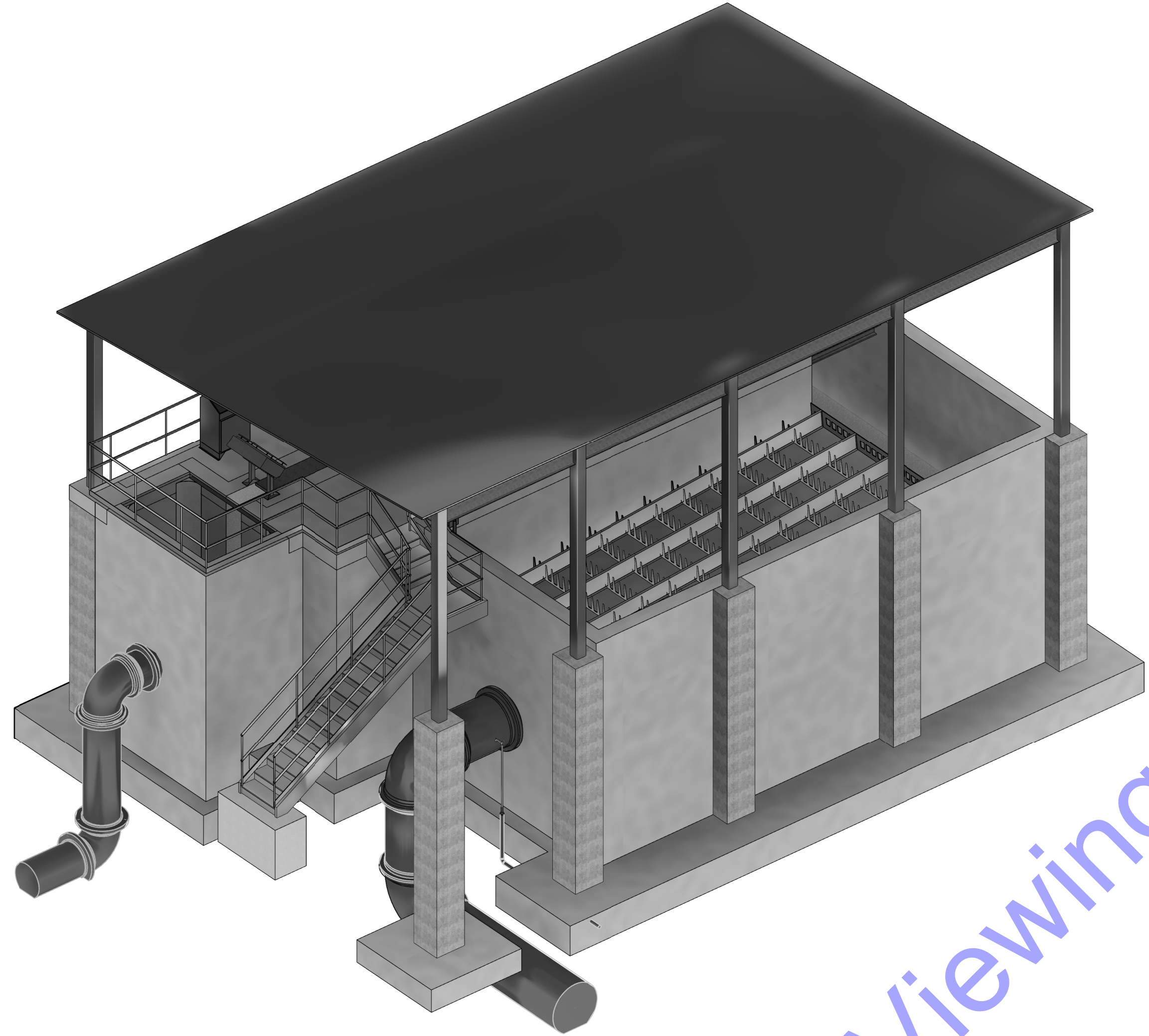
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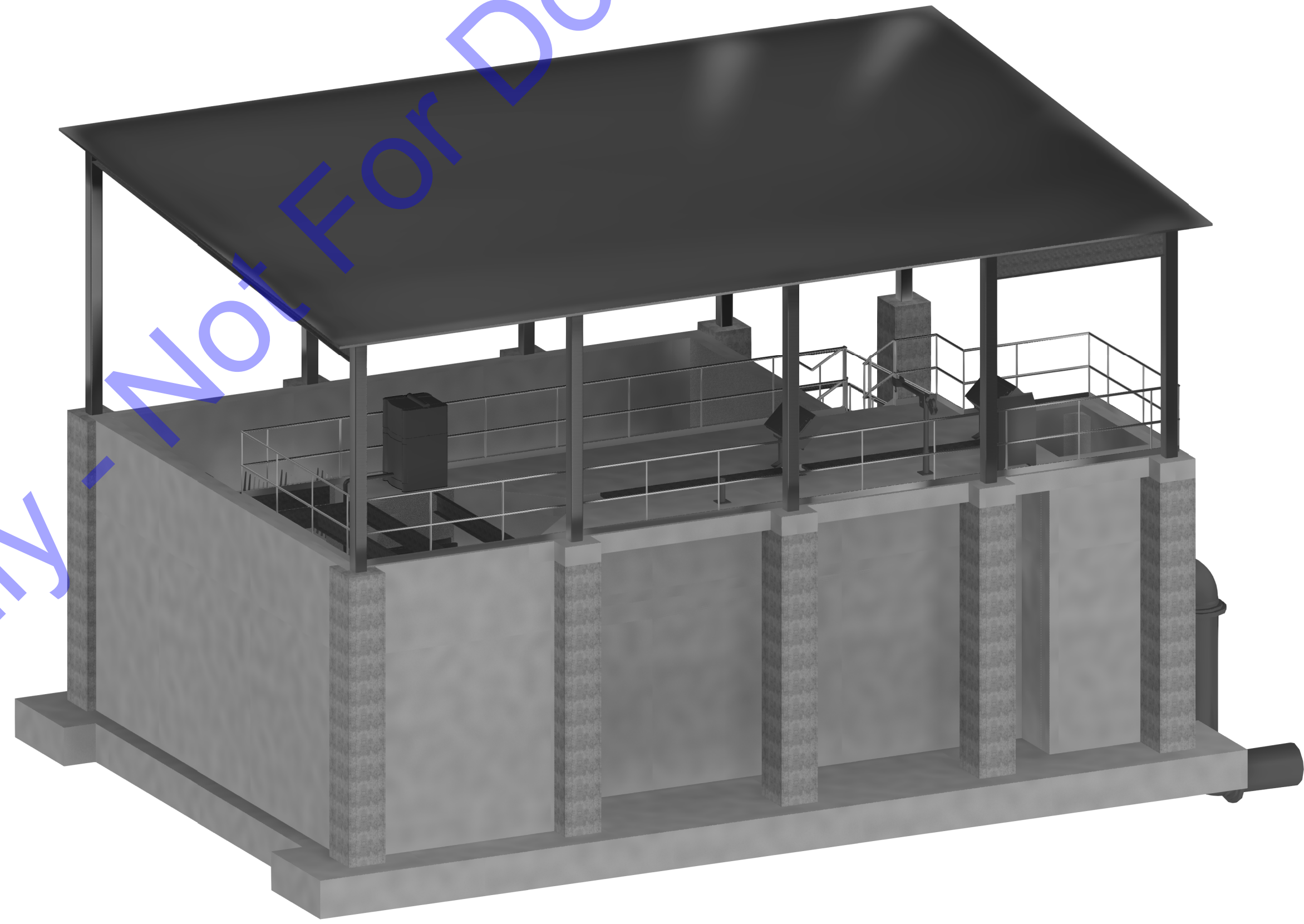
NEW SBR TREATMENT FACILITY - EQUIPMENT DETAILS

Drawing No: **D2-25**
Sheet: 61 OF 177

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SCALE: NOT TO SCALE



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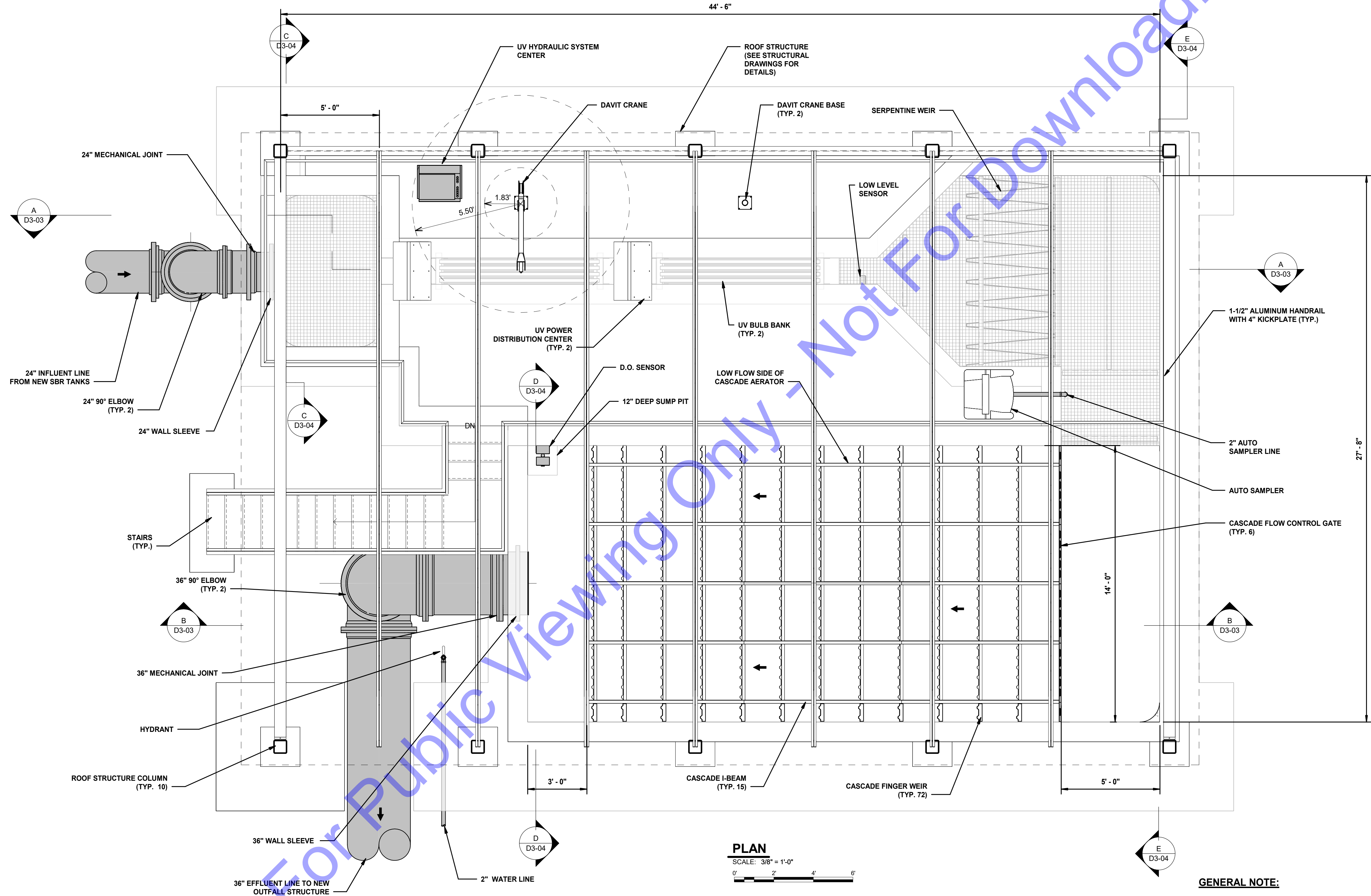
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NEW UV AND
CASCADE AERATION -
ISOMETRIC VIEW

Drawing No:
D3-01
Sheet: 62 OF 177



PLAN
SCALE: 3/8" = 1'-0"
0' 2' 4' 6'

GENERAL NOTE:

1. CONTRACTOR TO VERIFY THE D.O. PROBE AND ASSOCIATED SUMP PIT ARE INSTALLED ON THE "LOW-FLOW" SIDE OF THE CASCADE AERATOR.
2. CONTRACTOR TO PROVIDE MOVABLE UV BULB STORAGE RACK.

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No. 10200330
STATE OF INDIANA
Signature: *Eric T. Pars...* Date: 1/24/24

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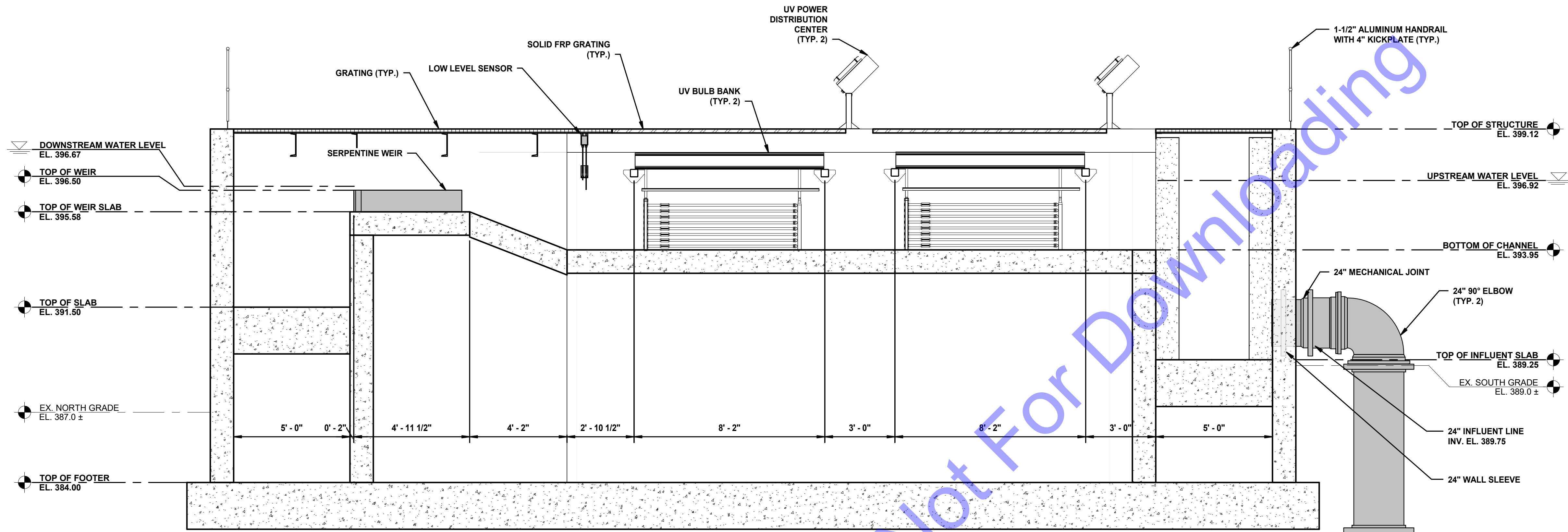
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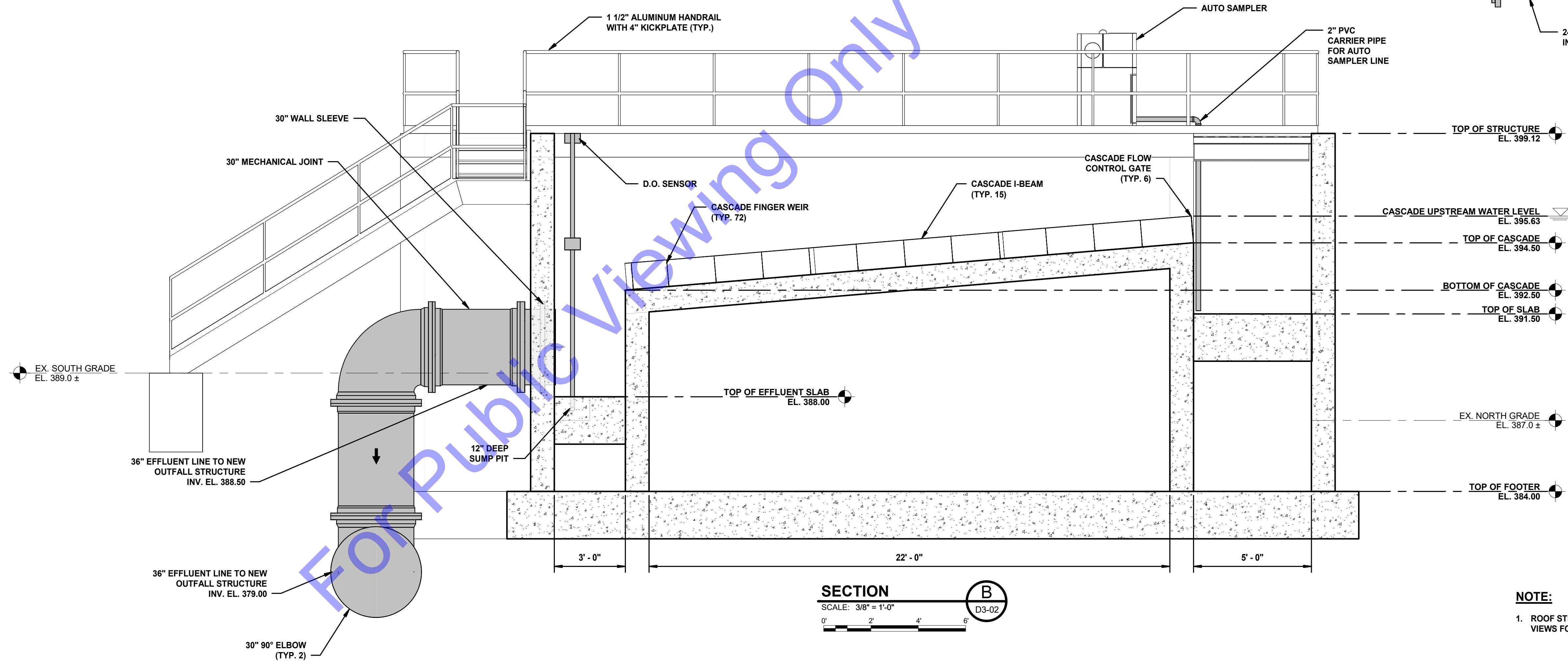
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JE	MJS	EP
Issue Date:	Project No:	Scale:
JAN. 2024	S20107	AS SHOWN

NEW UV AND CASCADE AERATION - PLAN VIEW

Drawing No:
D3-02
Sheet: 63 OF 177



SECTION A
SCALE: 3/8" = 1'-0"
D3-02



SECTION B
SCALE: 3/8" = 1'-0"
D3-02

NOTE:
1. ROOF STRUCTURE NOT SHOWN IN THESE VIEWS FOR CLARITY.

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No. 10200330
STATE OF INDIANA
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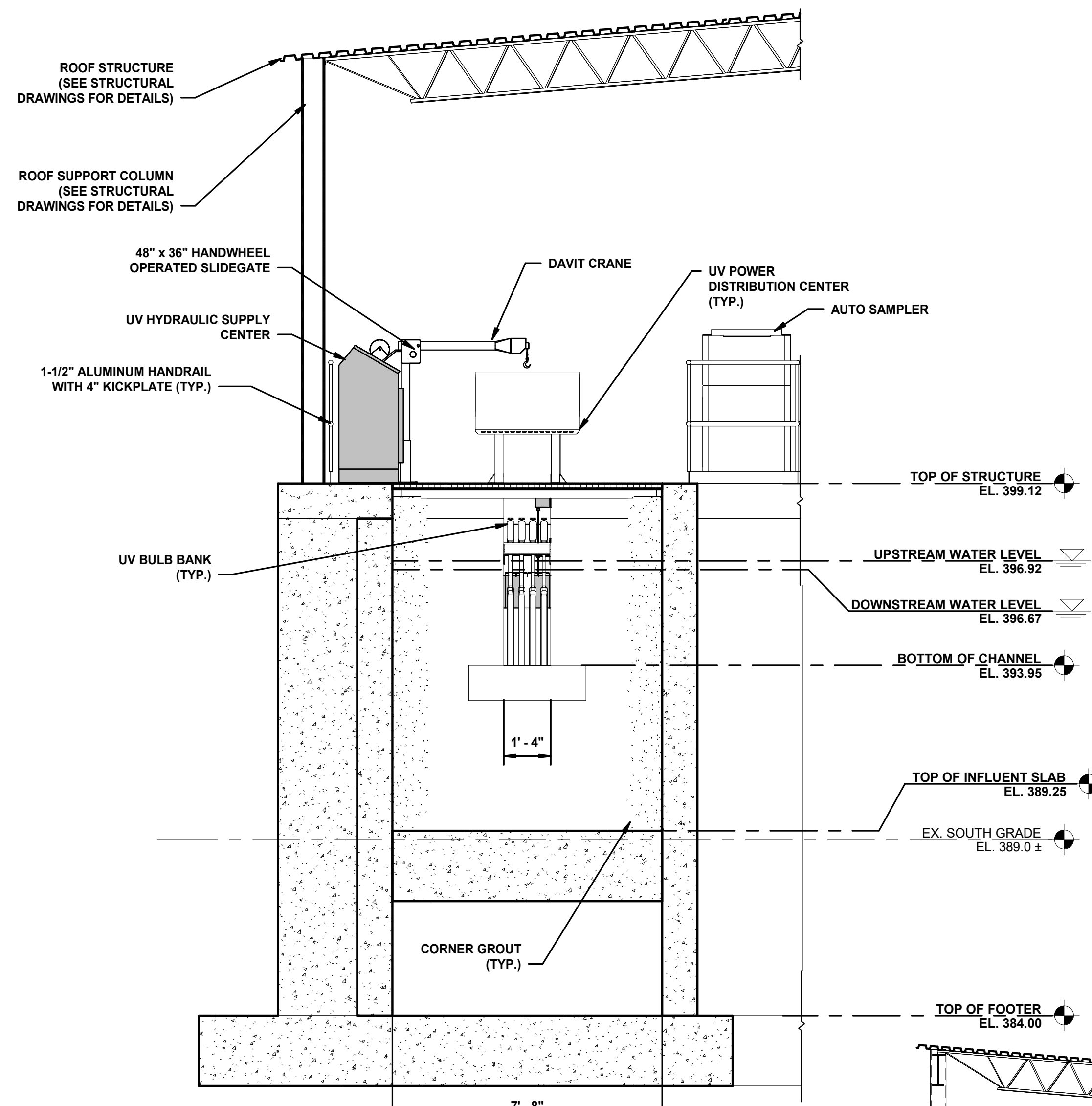
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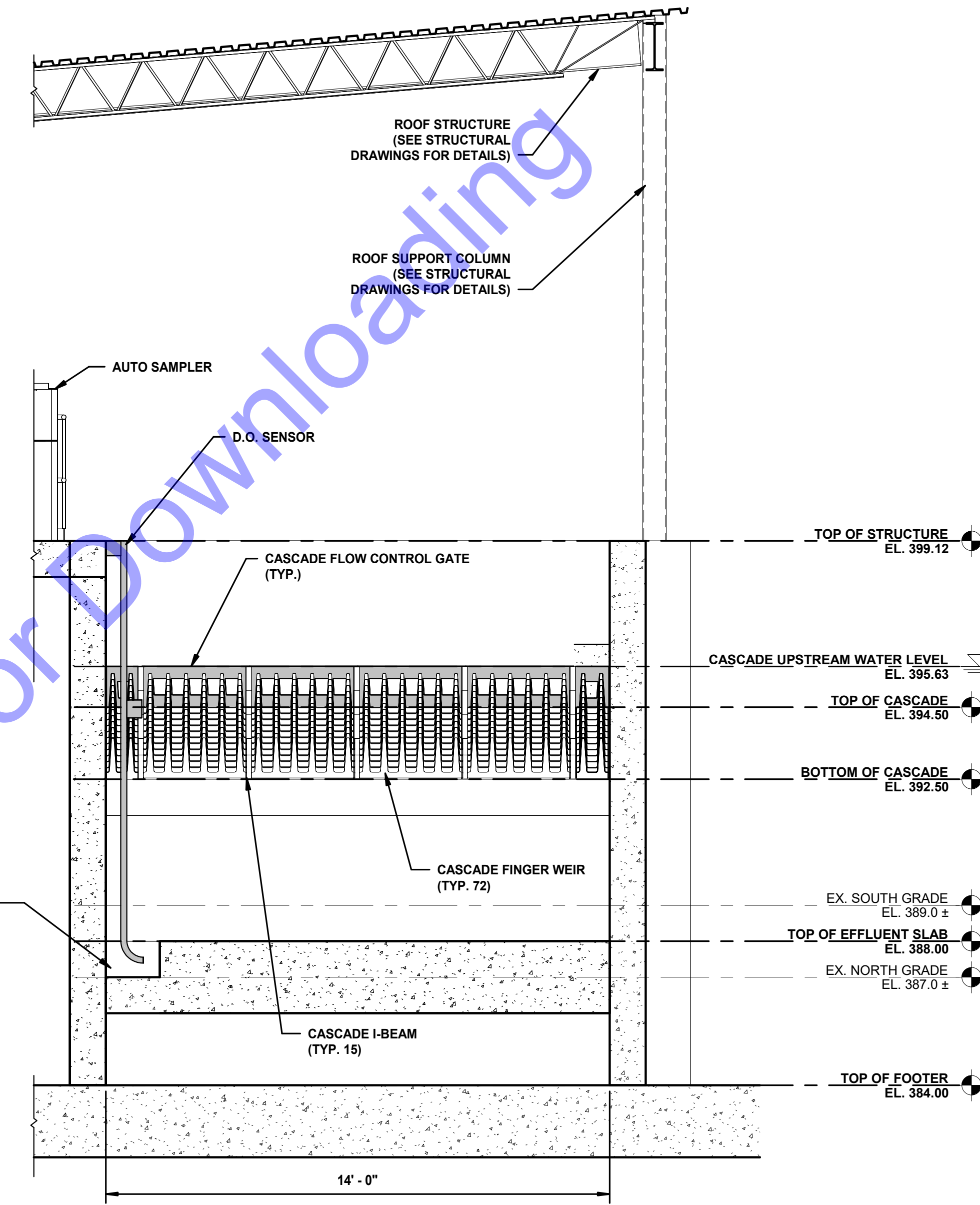
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NEW UV AND CASCADE AERATION - SECTION VIEWS
Drawing No: **D3-03**
Sheet: 64 OF 177

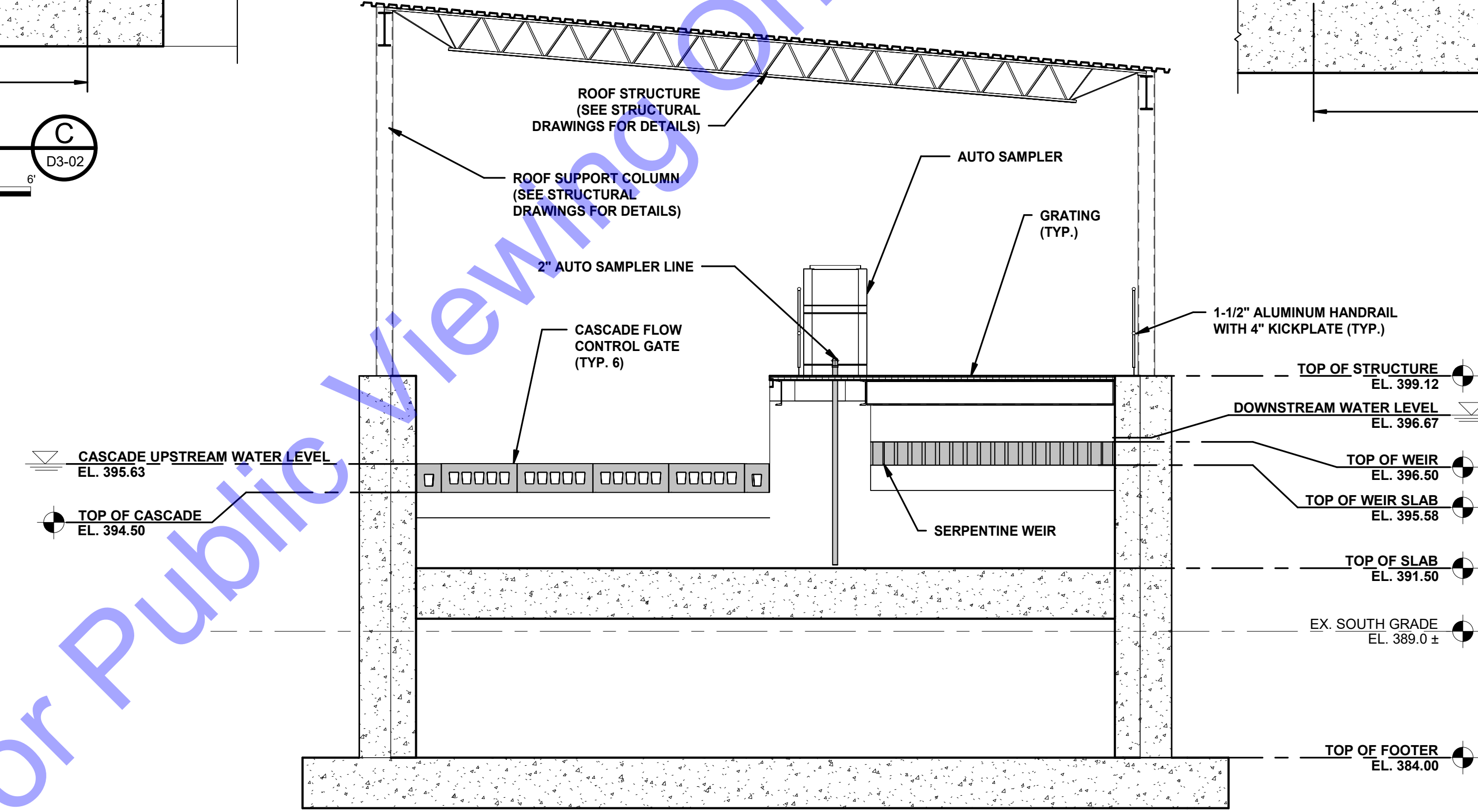
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SECTION C
SCALE: 3/8" = 1'-0"
D3-02



SECTION D
SCALE: 3/8" = 1'-0"
D3-02



SECTION E
SCALE: 1/4" = 1'-0"
D3-02

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STATE OF INDIANA
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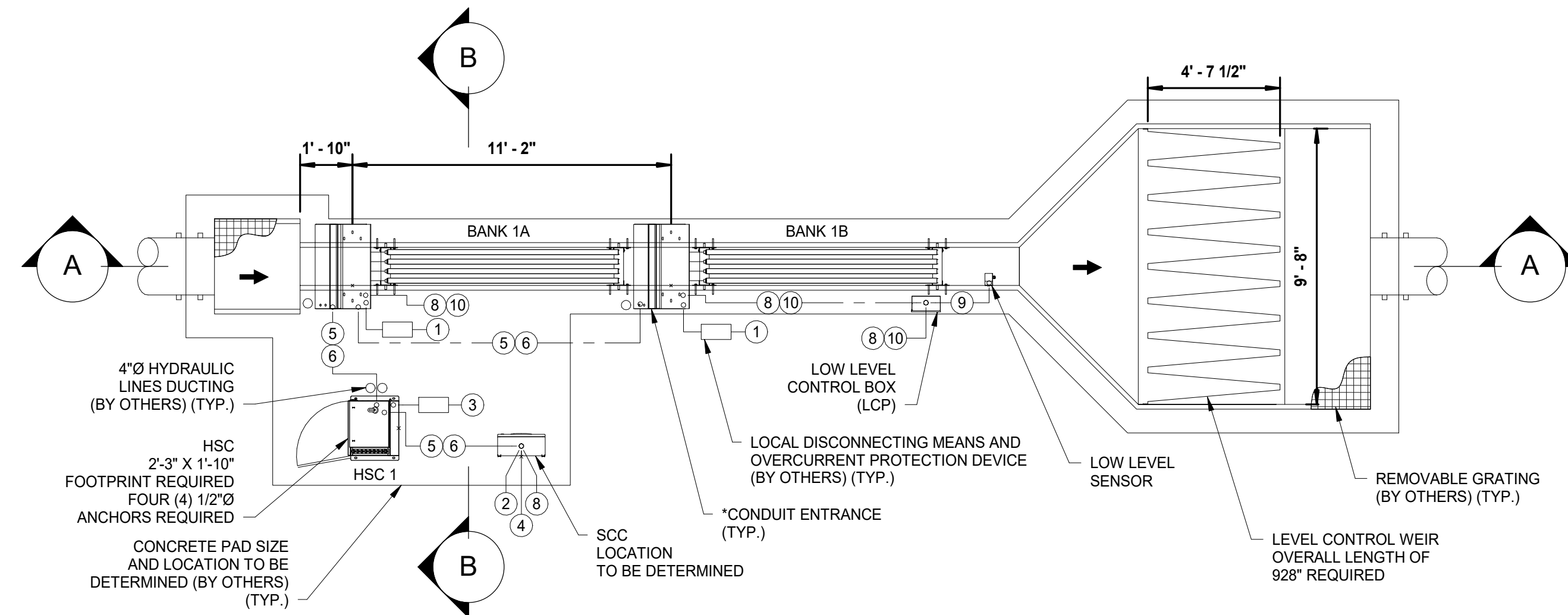
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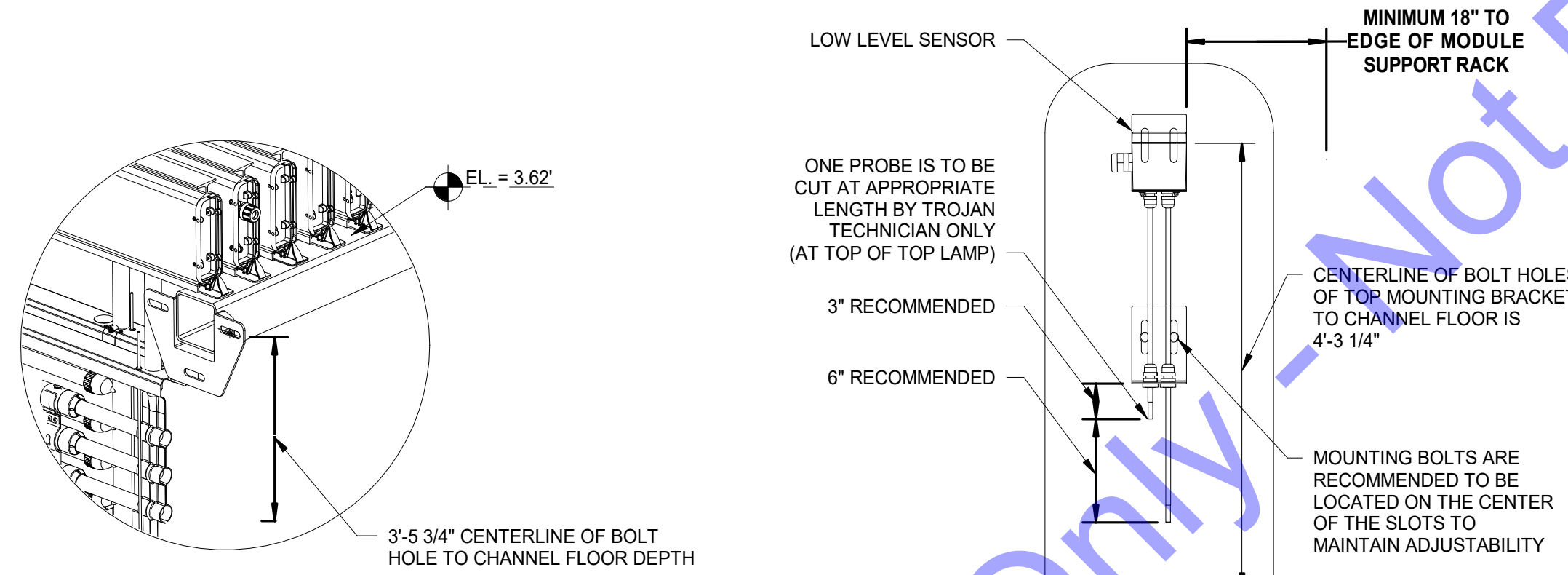
NEW UV AND CASCADE AERATION - SECTION VIEWS

Drawing No: **D3-04**
Sheet: 65 OF 177

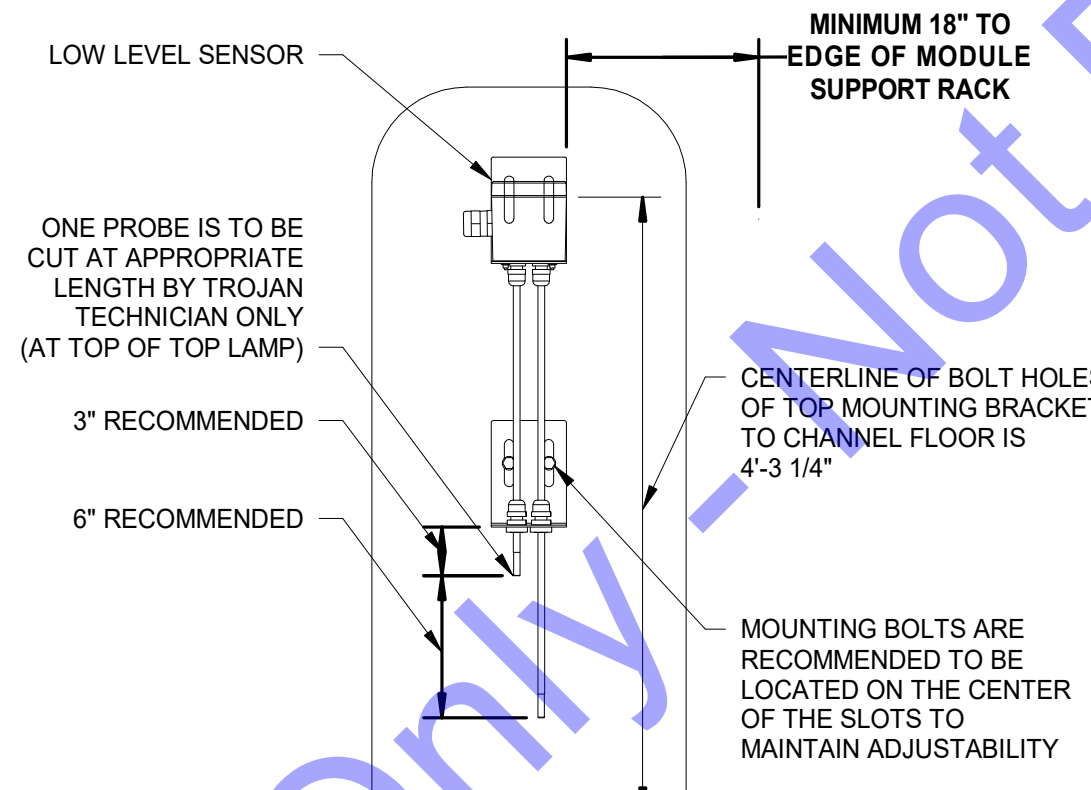
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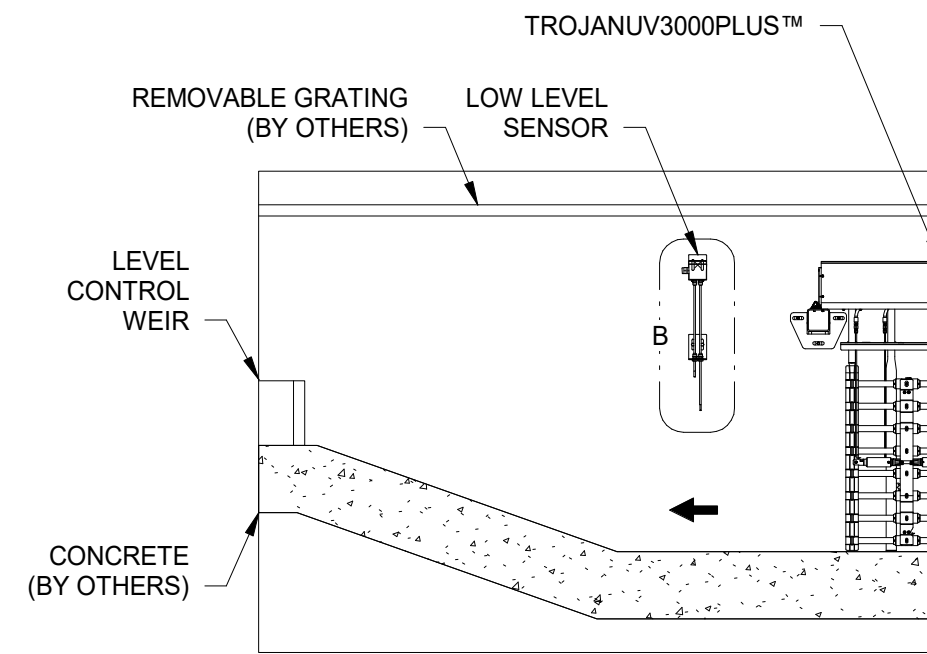
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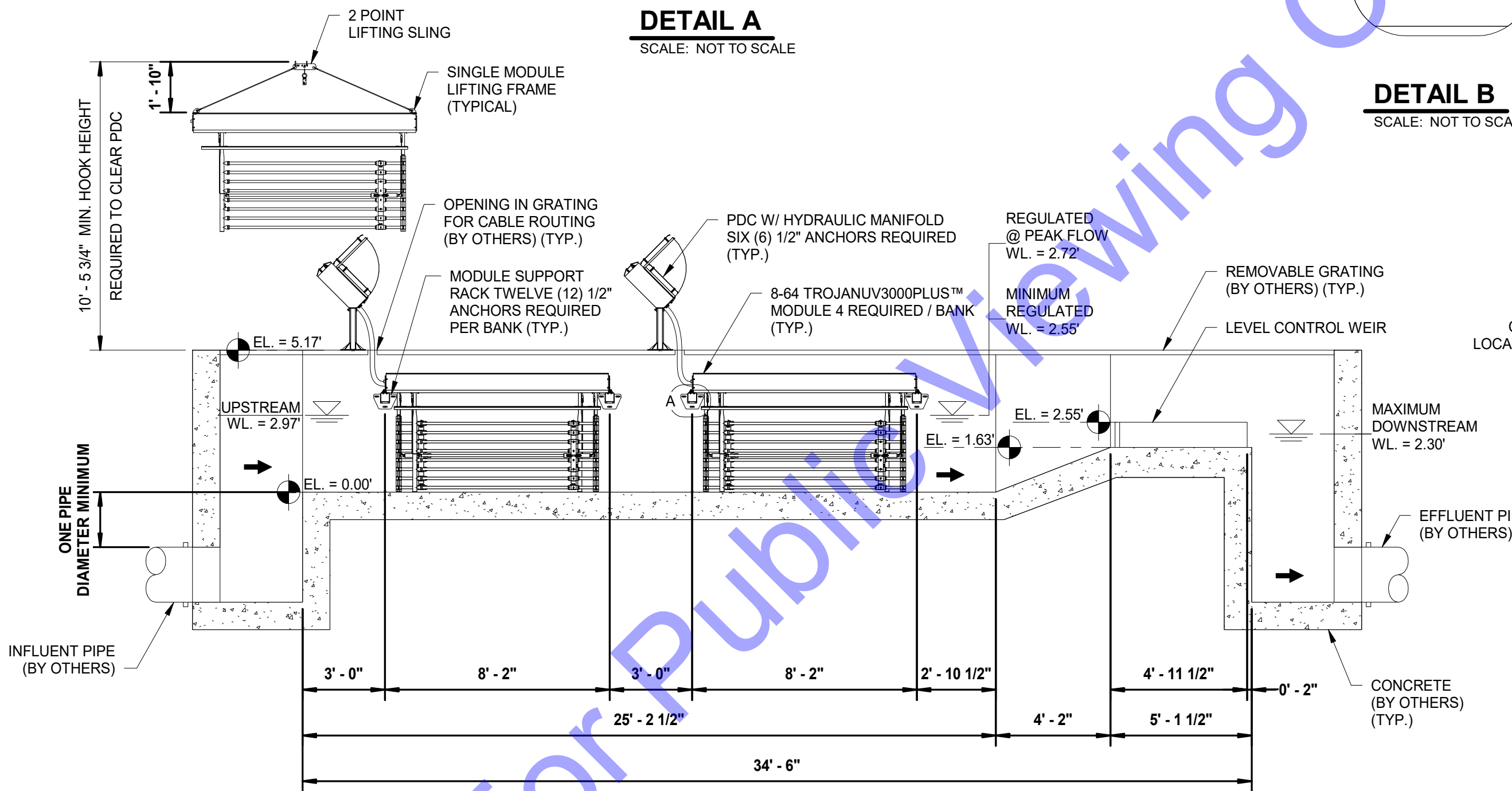
DETAIL A
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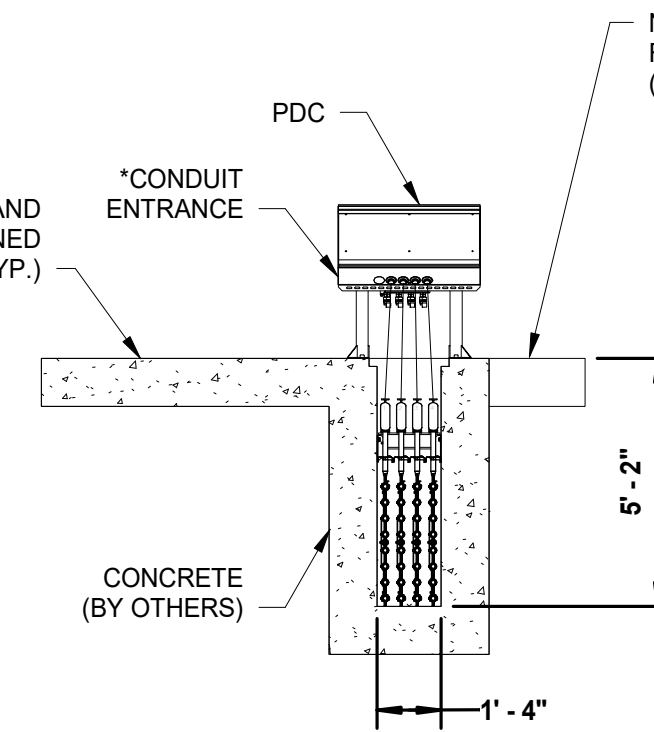
DETAIL B
SCALE: NOT TO SCALE



FRONT VIEW OF LOW LEVEL SENSOR
SCALE: NOT TO SCALE



SECTION
SCALE: 1/4" = 1'-0"
A



SECTION
SCALE: 1/4" = 1'-0"
B

NO.	DESCRIPTION	FROM	TO
1	POWER DISTRIBUTION CENTER (PDC) POWER SUPPLY 480Y/277V, 3 PHASE, 4 WIRE + GROUND 8.2 KVA/PDC POWER DRAW 15 AMPS MAXIMUM CURRENT/PHASE	DISTRIBUTION PANEL (DP) (BY OTHERS) (NOT SHOWN)	PDCs
1	SYSTEM CONTROL CENTER (SCC) "TOUCH SMART" POWER SUPPLY 120 V, 1 PHASE, 2 WIRE + GROUND 0.3 KVA, 2 AMPS	DISTRIBUTION PANEL (DP) (BY OTHERS) (NOT SHOWN)	SCC
1	HYDRAULIC SYSTEMS CENTER (HSC) POWER SUPPLY 120 V, 3 PHASE, 3 WIRE + GROUND 0.3 KVA, 2 AMPS	DISTRIBUTION PANEL (DP) (BY OTHERS) (NOT SHOWN)	HSC
1	FLOW METER 4-20 mA, DC ANALOG INPUT	FLOW METER PANEL (DP) (BY OTHERS) (NOT SHOWN)	SCC
1	GROUND LINK 14 AWG TYPE TWH STRANDED	SCC	PDC(S) THRU HSC (DAISY CHAINED)
1	MODBUS 1 SHIELDED TWISTED PAIR	SCC	PDC(S) THRU HSC (DAISY CHAINED)
1	MODBUS/TCP COMMUNICATION	SCC	PLANT SCADA (BY OTHERS) (NOT SHOWN)
1	LEVEL SENSOR CONTROL BOX (LCP) POWER SUPPLY 24 VDC - 2 CONDUCTORS	PDC	LCP
1	DISCRETE LOW LEVEL SIGNAL 24 VDC - 2 CONDUCTORS	LOW LEVEL SENSOR	LCP
1	DISCRETE WATER LEVEL SIGNAL 24 VDC - 2 CONDUCTORS	LCP	PDC

NOTES:

1. THIS DETAIL HAS BEEN ACQUIRED FROM TROJAN TECHNOLOGIES. IT IS FOR REFERENCE ONLY.

NOTES:

- DO NOT SLOPE CHANNEL FLOOR.
- CHANNEL WIDTH & DEPTH MUST BE KEPT WITHIN A TOLERANCE OF THE + OR - 1/4".
- ANCHOR BOLTS ARE NOT SUPPLIED BY TROJAN TECHNOLOGIES.
- SYSTEM CONDUIT, WIRING, DISTRIBUTION PANELS & INTERCONNECTIONS BY OTHERS.
- ELECTRICAL REQUIREMENTS SHOWN ARE TO SUPPLY TROJAN UV EQUIPMENT ONLY. ELECTRICAL INRUSH FACTOR TO BE ADDED AS PER LOCAL CODE.
- REMOVABLE GRATING SECTIONS SHALL BE EASILY REMOVED BY ONE PERSON. MAXIMUM WEIGHT OF THE SECTIONS SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF THE APPLICABLE JURISDICTION.
- CONTRACTOR TO REVIEW ALL TROJAN TECHNOLOGIES INSTALLATION INSTRUCTIONS PRIOR TO EQUIPMENT INSTALLATION.
- EFFLUENT LEVELS SHOWN TO REFLECT HYDRAULICS ASSOCIATED WITH TROJAN EQUIPMENT ONLY. EFFLUENT LEVELS MAY BE ALTERED DUE TO CHANNEL DEBRIS OR GEOMETRY.
- GRATING IMMEDIATELY ABOVE UV MODULES TO BE OPEN TYPE. (EG. PERFORATED) TO ALLOW ADEQUATE COOLING OF THE UV MODULES.
- CONDUIT RUN BETWEEN HSC AND PDC(S) IS 20" MINIMUM.
- HSC HYDRAULIC ENTRANCE(S) NOT BE MORE THAN 1'-0" BELOW PDC MOUNTING ELEVATION TO PREVENT HSC PUMP FLOODING.
- SITE TO PROVIDE APPROVED (ENGINEERED) ANCHOR POINTS FOR PERSONNEL TO USE AS PART OF THEIR FALL RESTRAINT SYSTEM AROUND OPEN CHANNELS. THE ANCHOR POINTS MUST BE POSITIONED SO THAT THE PREFERRED RETRACEABLE LIFELINE OF THE 8 FEET IS OF SUFFICIENT LENGTH TO ACCESS THE WORK AT THE CHANNEL.
- POWER AND LOW VOLTAGE CONDUITS MUST ENTER LABELED LOCATION ON LEFT SIDE OF PDC.

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Signature: *E.T. Pars* Date: 1/24/24

ERIC T. PARS, EIT
REGISTERED PROFESSIONAL ENGINEER
No. 10200330
STATE OF INDIANA

CITY OF ROCKPORT
SPENCER COUNTY, INDIANA
WASTEWATER LTCP PHASE 4
PROJECT
DIVISION "A" - WWTP

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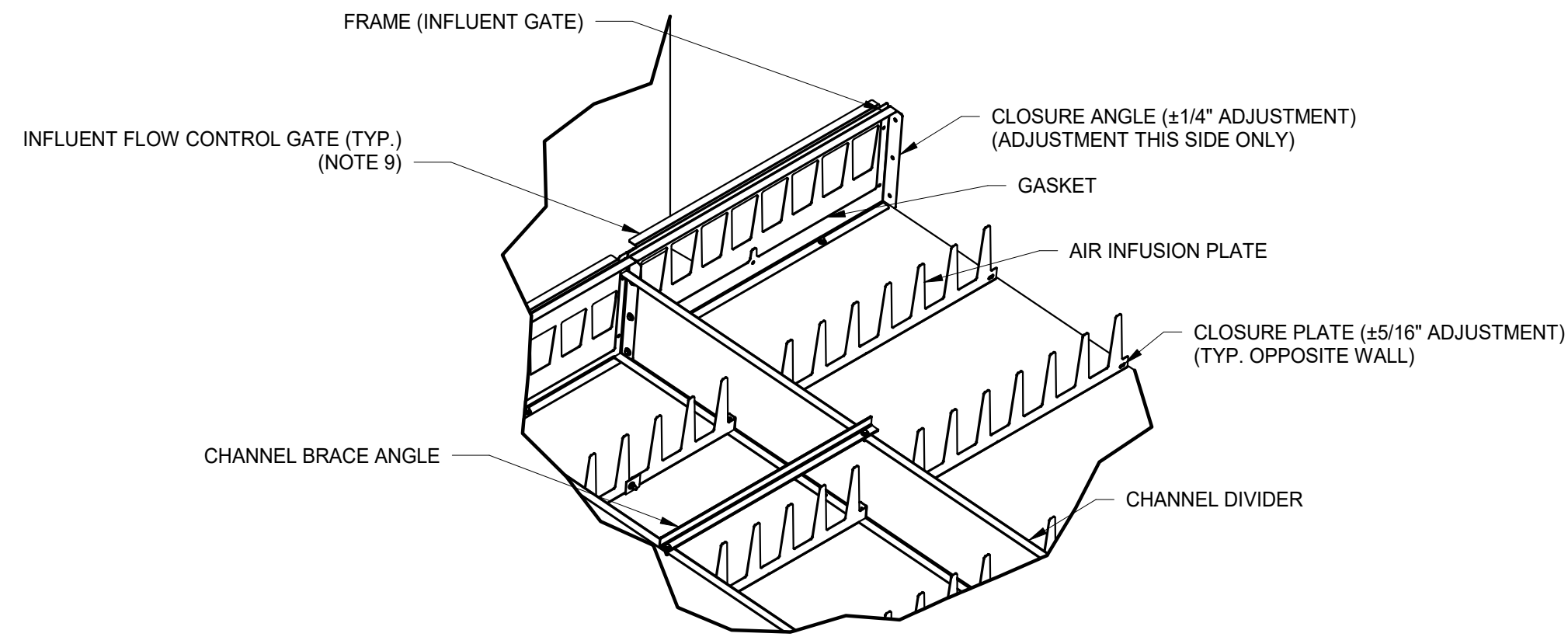
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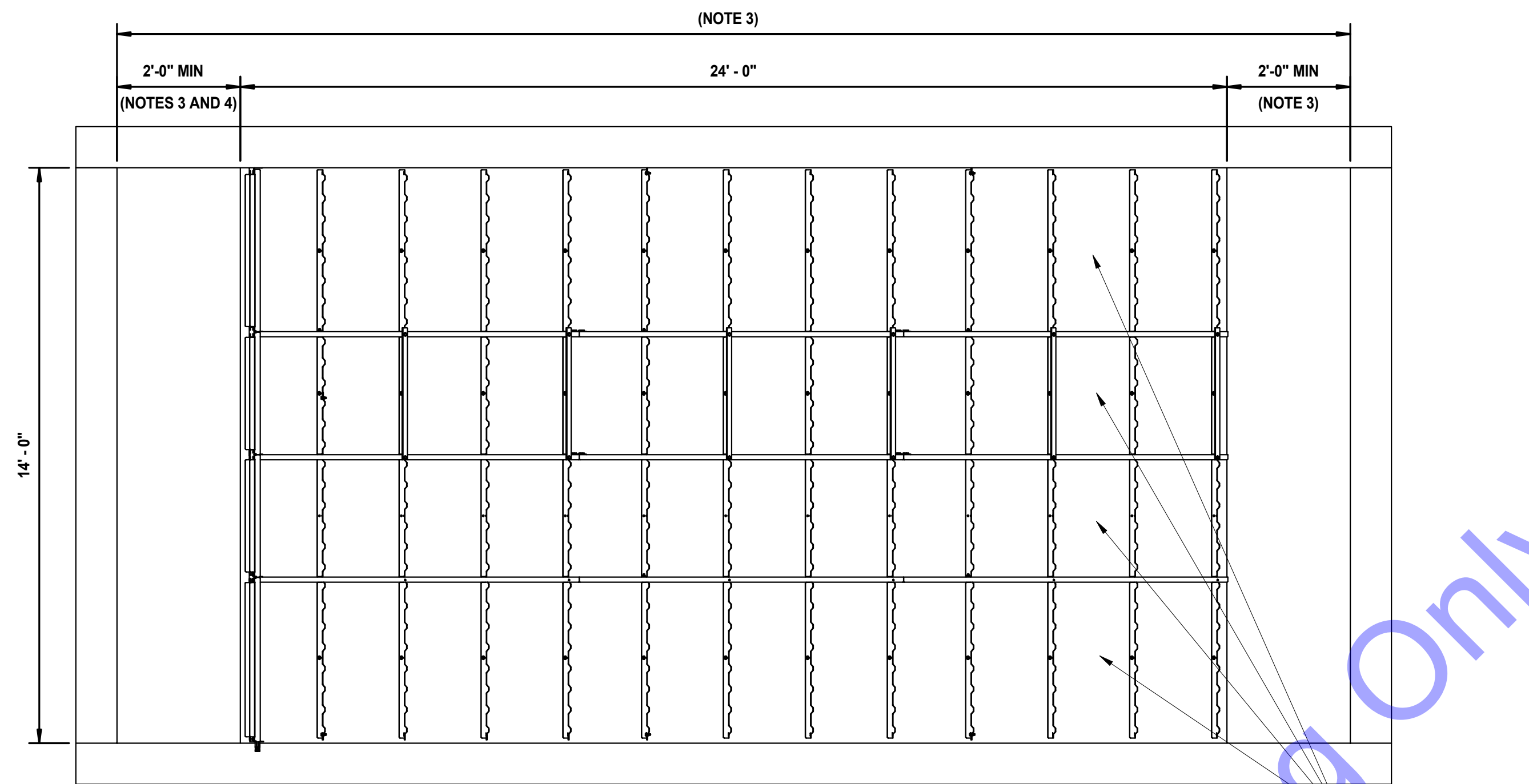
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NEW UV AND CASCADE AERATION - EQUIPMENT DETAILS

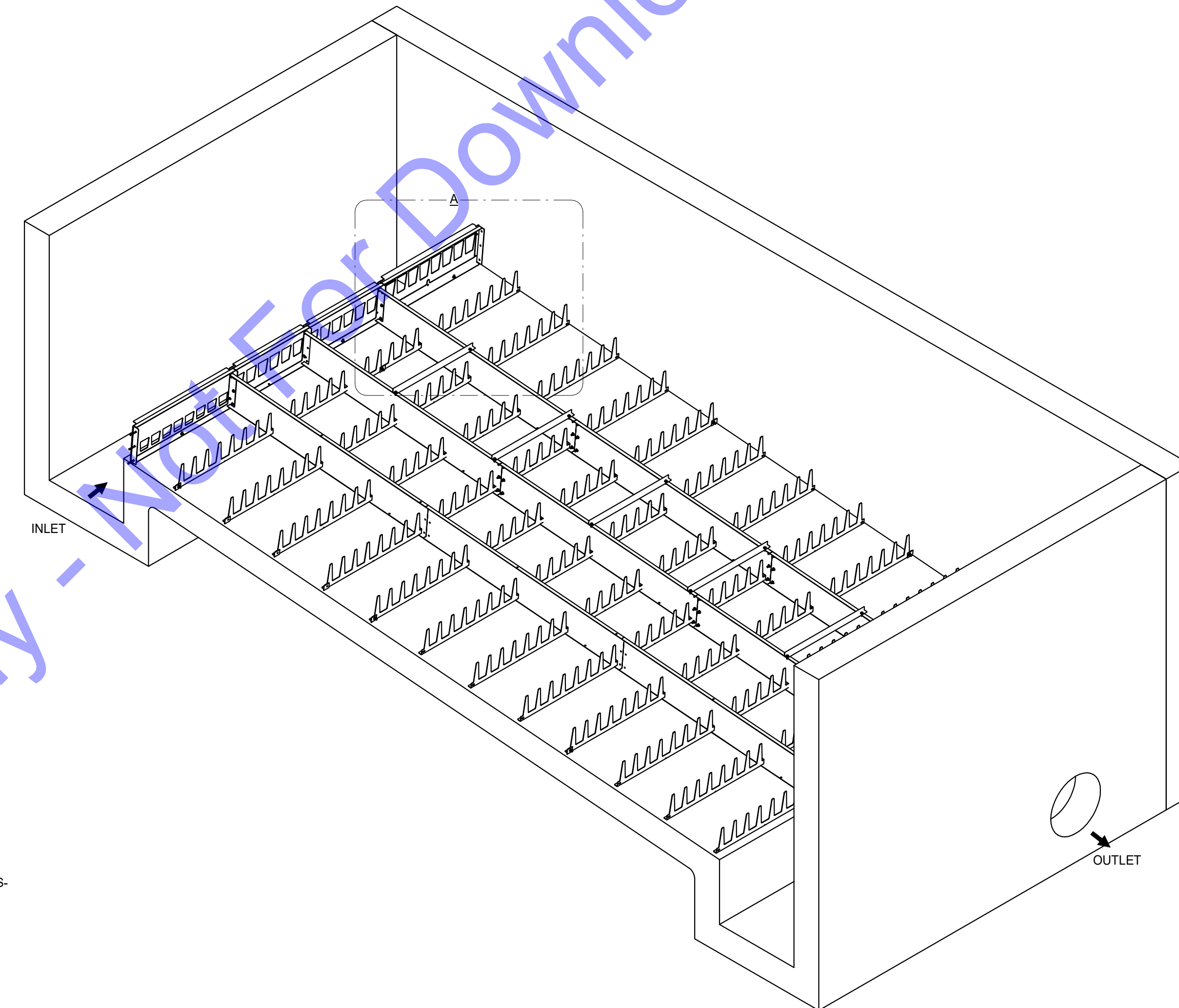
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D3-05
Sheet: 66 OF 177



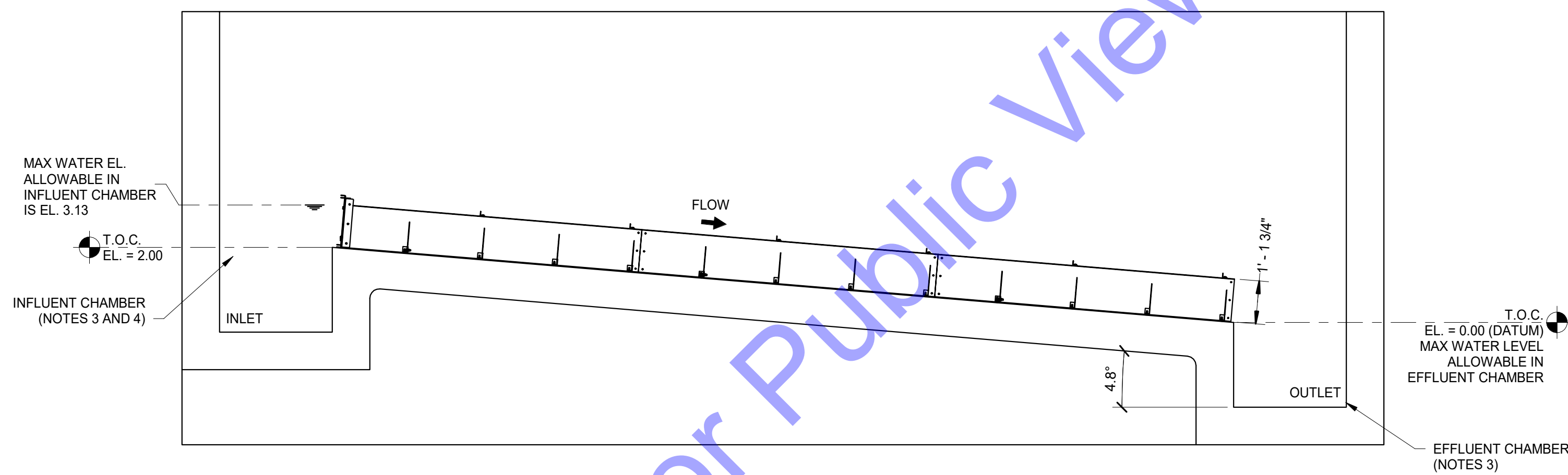
DETAIL A
SCALE: NOT TO SCALE



PLAN
SCALE: NOT TO SCALE



ISOMETRIC
SCALE: NOT TO SCALE



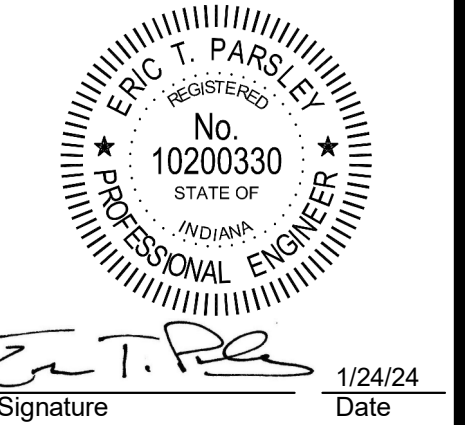
SECTION
SCALE: NOT TO SCALE

NOTES:

- MATERIALS OF CONSTRUCTION TO BE T-304 STAINLESS STEEL.
- CONCRETE BASIN IS BY OTHERS.
- INLETS, OUTLETS, INFLUENT, AND EFFLUENT CHAMBERS TO BE SIZED (BY OTHERS) TO NOT EXCEED INDICATED MAX WATER ELEVATIONS.
- INFLUENT CHAMBERS MAY NEED TO INCLUDE ENERGY DISSIPATION DEVICE TO REDUCE WATER VELOCITY IMPACT ON INFLUENT DISTRIBUTION AND TO EVENLY DISTRIBUTE FLOW TO INFLUENT FLOW CONTROL GATES.
- SLOPE OF CONCRETE FLOOR AND LEVEL OF CONCRETE FLOOR ACROSS WIDTH OF BASIN IS CRITICAL TO PROPER SYSTEM PERFORMANCE.
- CONCRETE SURFACE TO BE FLAT AND SMOOTH (1/4" IN 10' IN ALL DIRECTIONS), AND IS CRITICAL FOR PROPER SEALING.
- PLACE SEAL MATERIAL BETWEEN MATING STEEL AND CONCRETE SURFACES BEFORE ANCHORING.
- BY MFR: INDIVIDUAL CHANNEL WIDTHS WILL CHANGE FOR JOB SPECIFIC APPLICATION FLOW RATES AND WILL BE DETERMINED AT TIME OF SUBMITTAL.
- BY MFR: THE PATENT PENDING LPCA INFLUENT FLOW CONTROL GATE & AIR INFUSION PLATES WILL BE TRAPEZOIDAL SHAPED. THEY ARE DESIGNED FOR JOB SPECIFIC APPLICATION FLOW RATES TO OPTIMIZE AIR INFUSION AT MINIMUM FLOW RATES & ACHIEVE THE "DO" CONCENTRATION SPECIFIED THROUGHOUT THE FULL RANGE OF FLOW.

NOTES:

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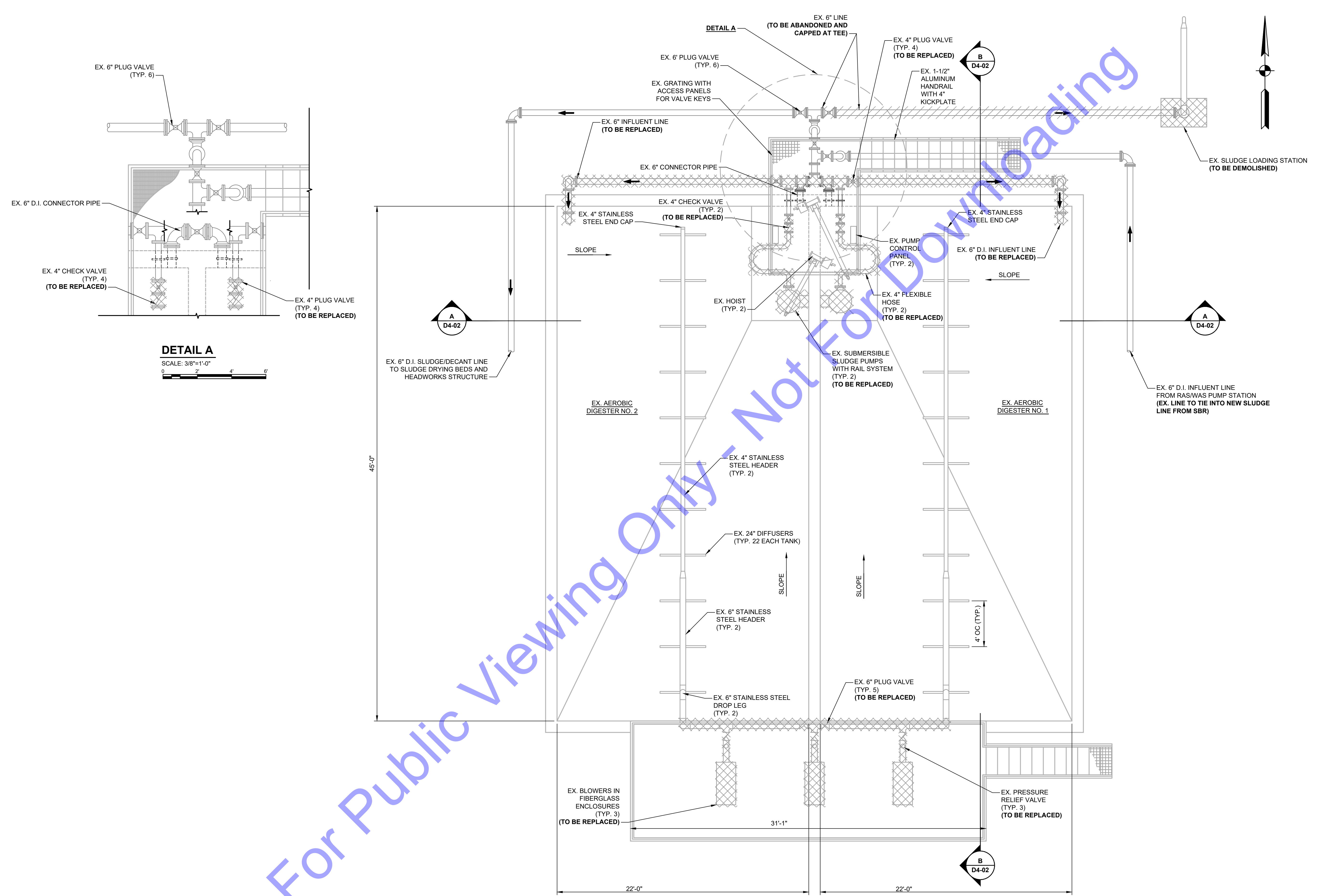
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NEW UV AND
CASCADE AERATION -
EQUIPMENT DETAILS

Drawing No:
D3-06
Sheet: 67 OF 177

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PLAN
 SCALE: 1/4"=1'-0"
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Professional Engineer Seal:
 No. 102003330
 STATE OF INDIANA
 PROFESSIONAL ENGINEER
 Signature: [Signature]
 Date: 01/24/24

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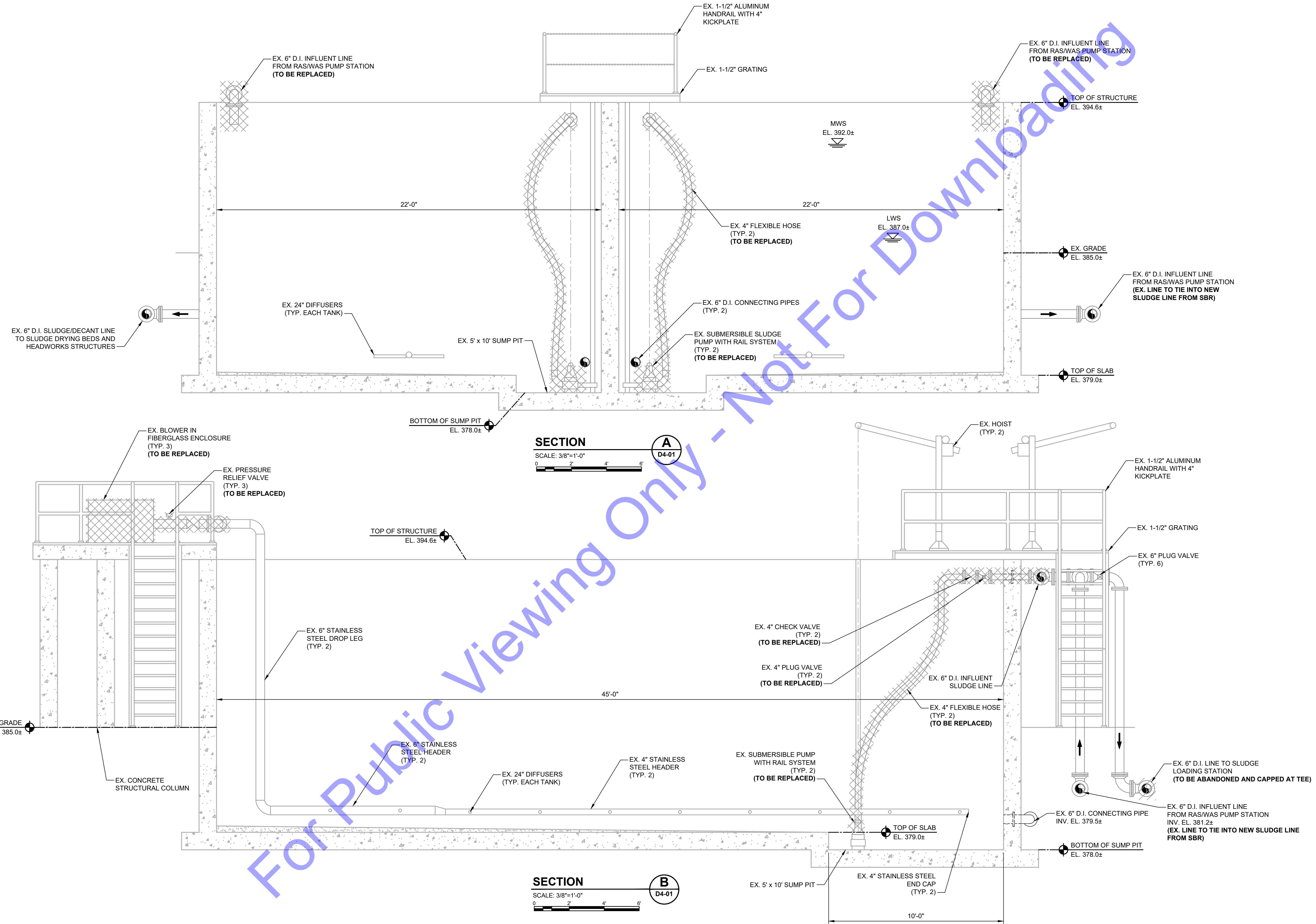
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EXISTING AEROBIC DIGESTER - DEMOLITION PLAN VIEW
 Drawing No: **D4-01**
 Sheet: 68 OF 177

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Professional Engineer Seal for Eric T. Parsi, No. 102003330, State of Indiana.
 Signature: Eric T. Parsi
 Date: 01/24/24

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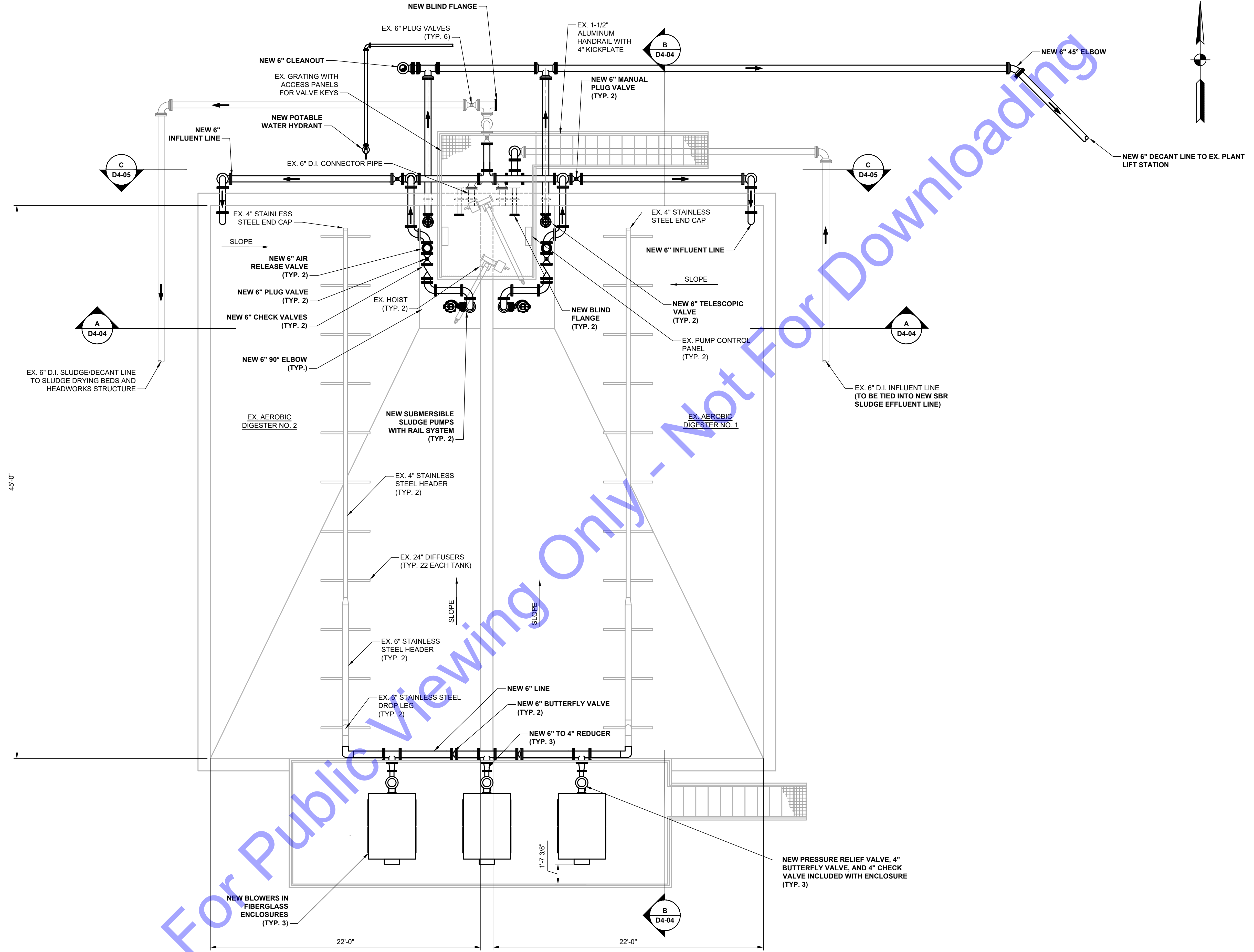
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EXISTING AEROBIC DIGESTER - DEMOLITION SECTION VIEWS

Drawing No:
D4-02

Sheet: 69 OF 177

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PLAN
 SCALE: 1/4"=1'-0"
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 PROFESSIONAL ENGINEER
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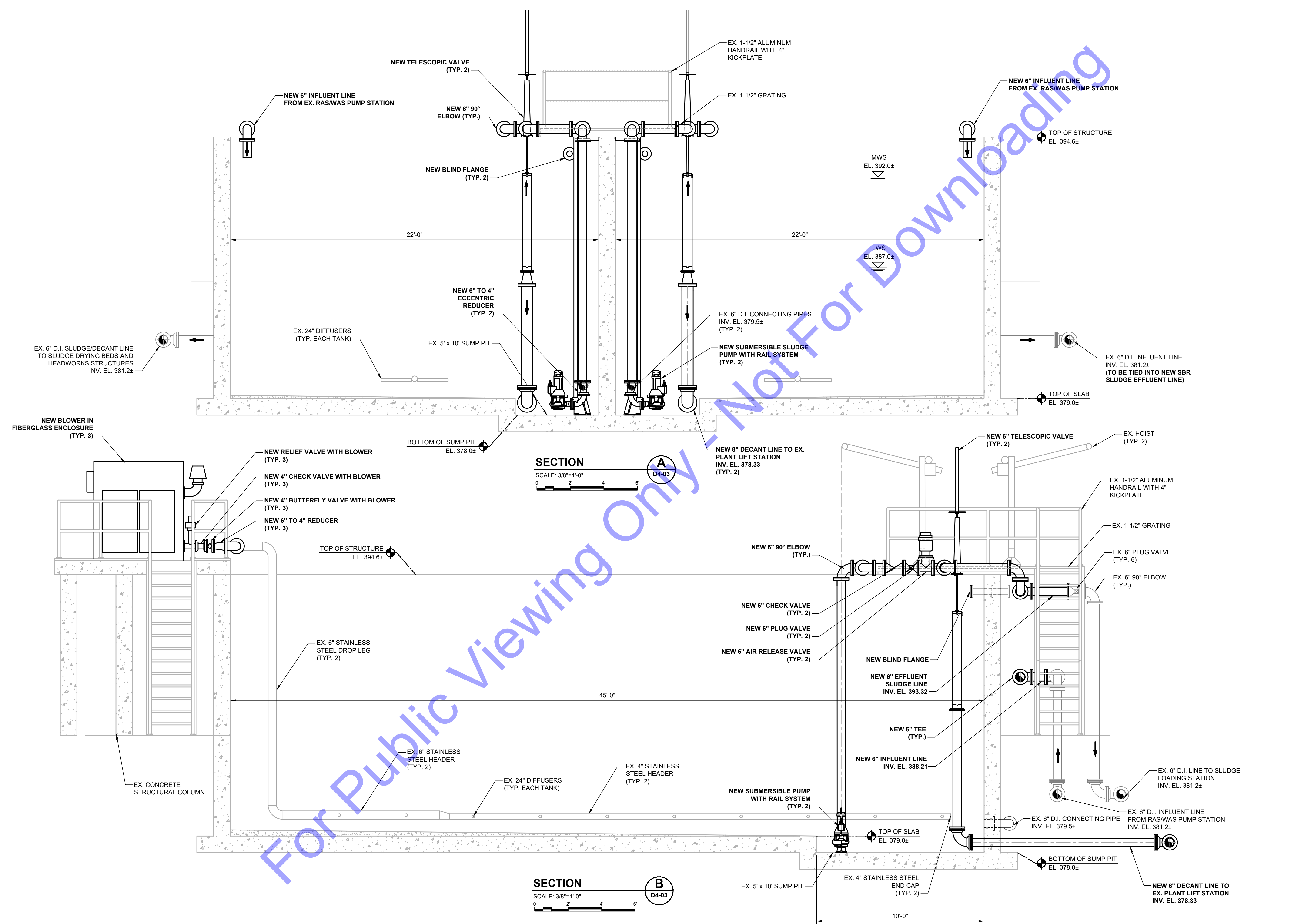
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EXISTING AEROBIC DIGESTER - IMPROVEMENTS PLAN VIEW

Drawing No:
D4-03
 Sheet: 70 OF 177

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Professional Engineer Seal:
 ERIC T. PARS ET AL.
 REGISTERED
 No. 102003330
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 PROFESSIONAL ENGINEER

Signature: *Eric T. Pars* Date: 01/24/24

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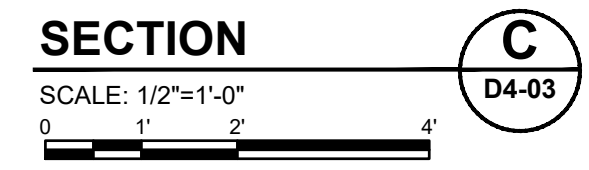
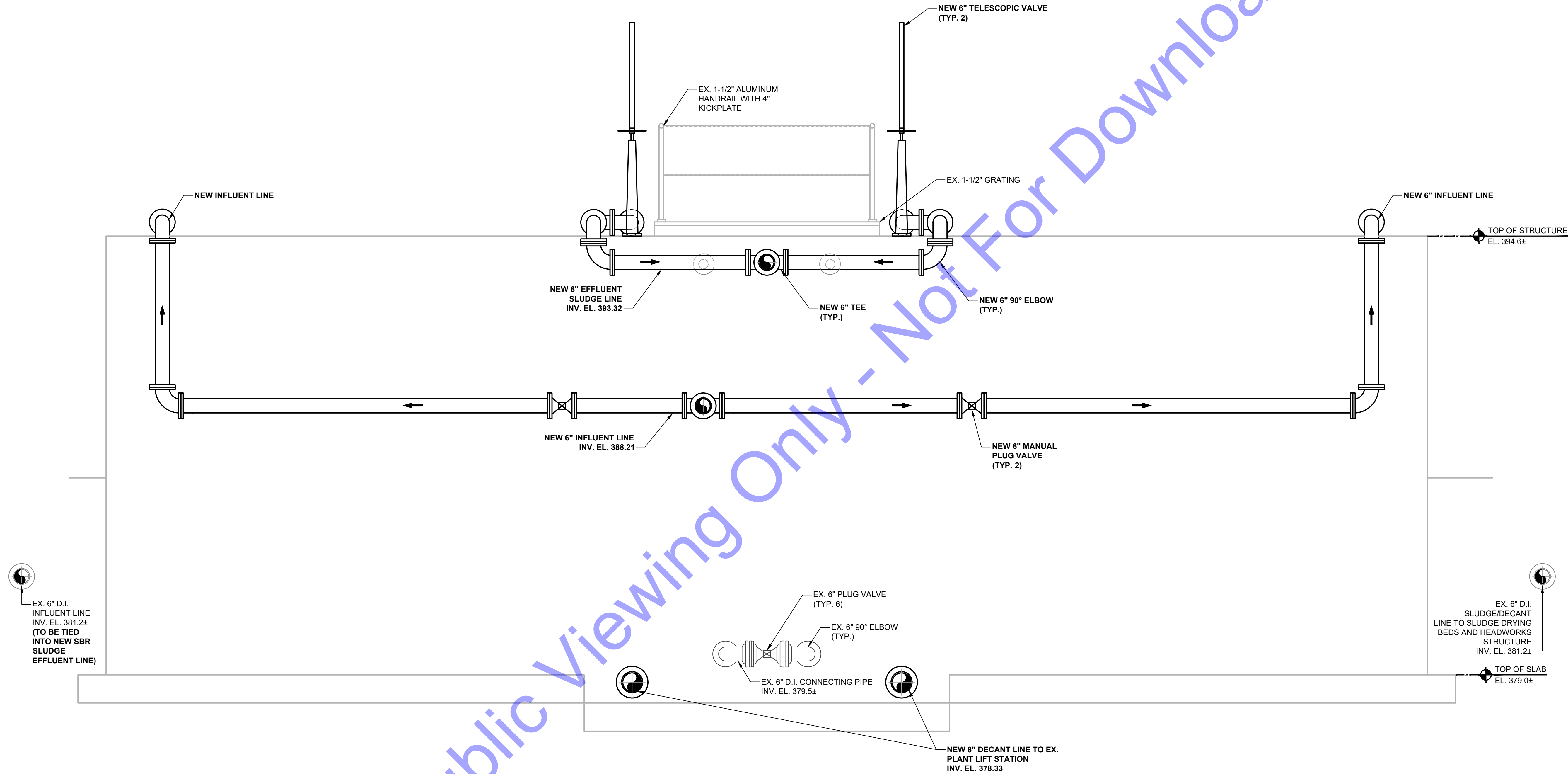
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EXISTING AEROBIC DIGESTER - IMPROVEMENTS SECTION VIEWS

Drawing No:
D4-04
 Sheet: 71 OF 177

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 REGISTERED PROFESSIONAL ENGINEERS
 No. 102003330
 STATE OF INDIANA
 Signature: *E.T. Pars* Date: 01/24/24

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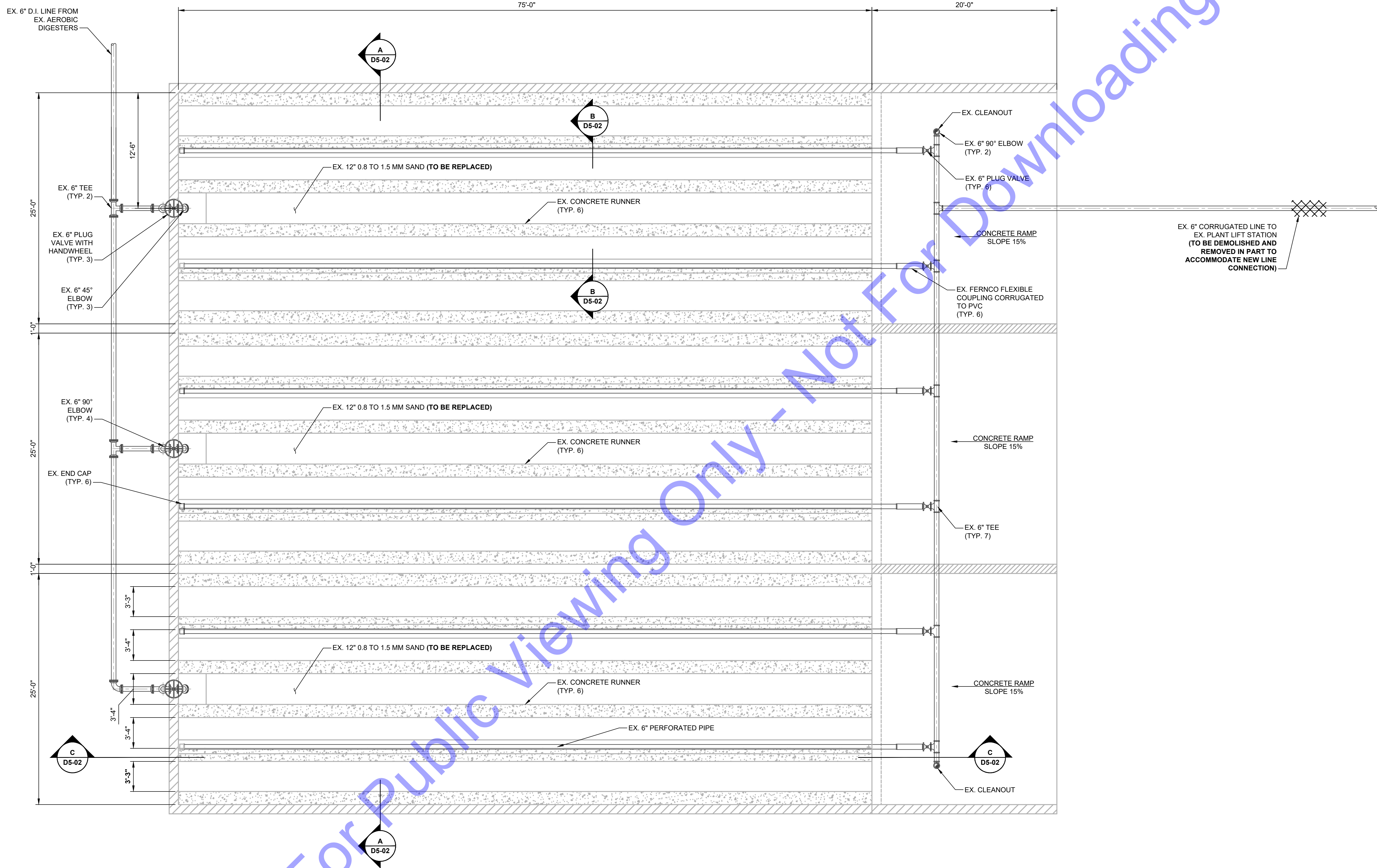
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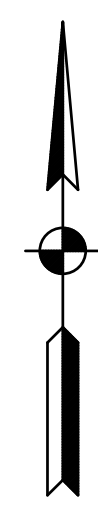
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 Sheet: 72 OF 177

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PLAN
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Professional Engineer Seal for Eric T. Parsi, No. 10200330, State of Indiana.
 Signature: *E.T. Parsi* Date: 01/24/24

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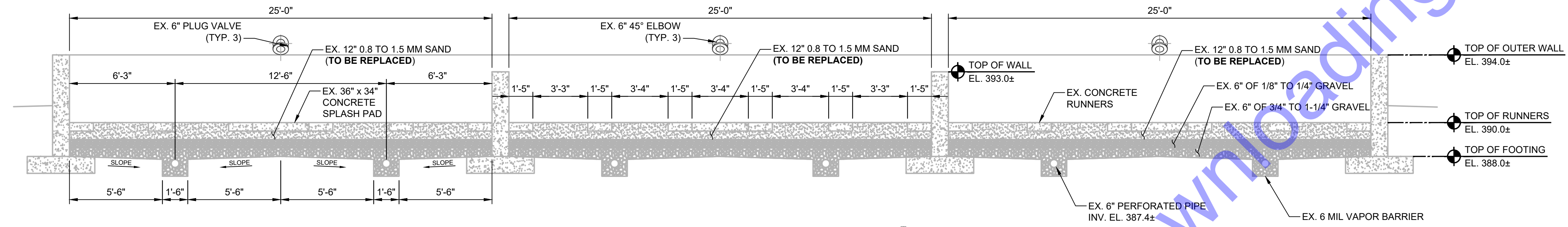
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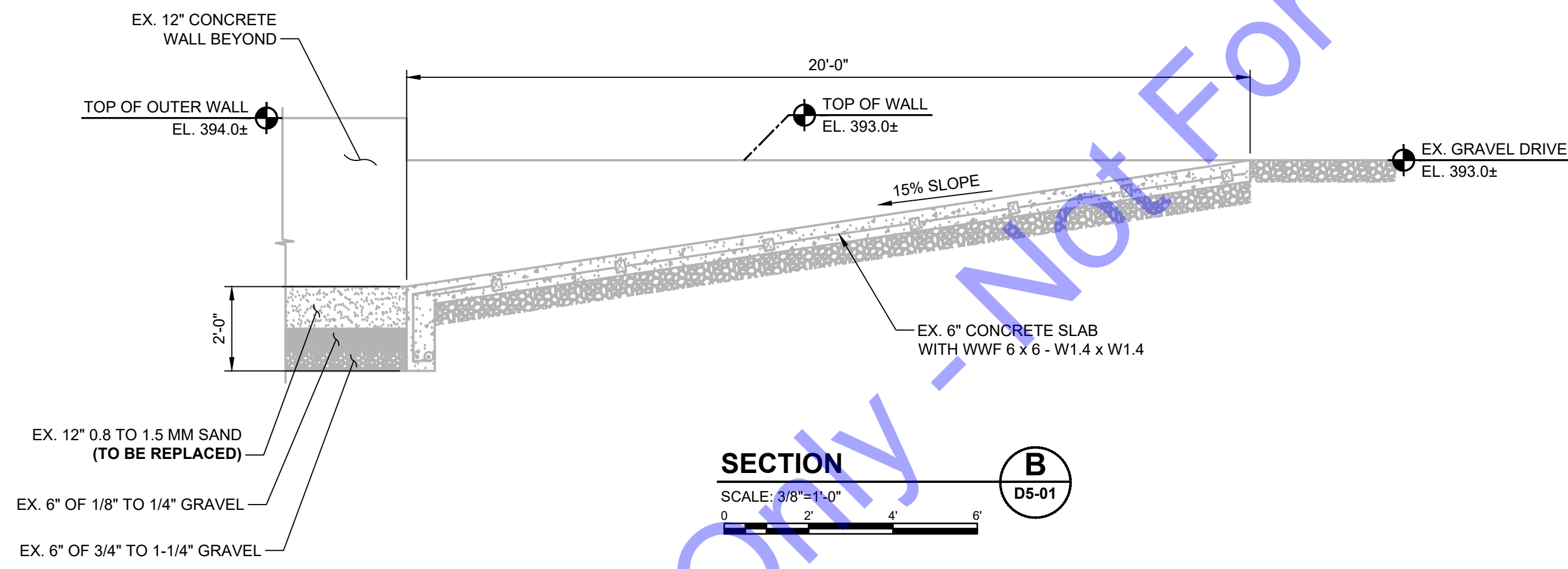
EXISTING SLUDGE DRYING BEDS - DEMOLITION PLAN VIEW

Drawing No: **D5-01**
 Sheet: 73 OF 177

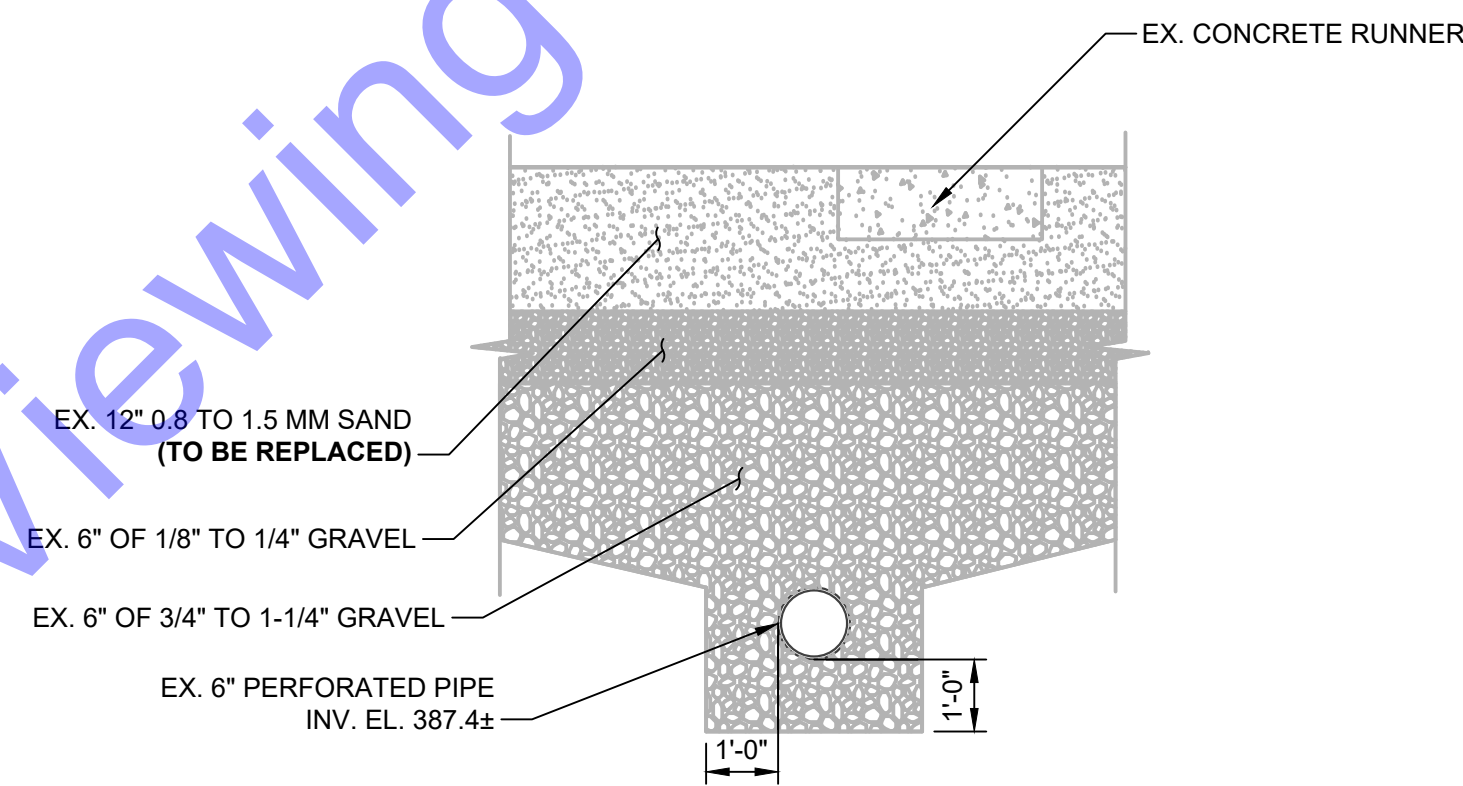
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SECTION A
 SCALE: 1/4"=1'-0"
 D5-01



SECTION B
 SCALE: 3/8"=1'-0"
 D5-01



SECTION C
 SCALE: 3/8"=1'-0"
 D5-01

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Professional Engineer
 No. 102003330
 STATE OF INDIANA
 Signature: [Signature] Date: 01/24/24

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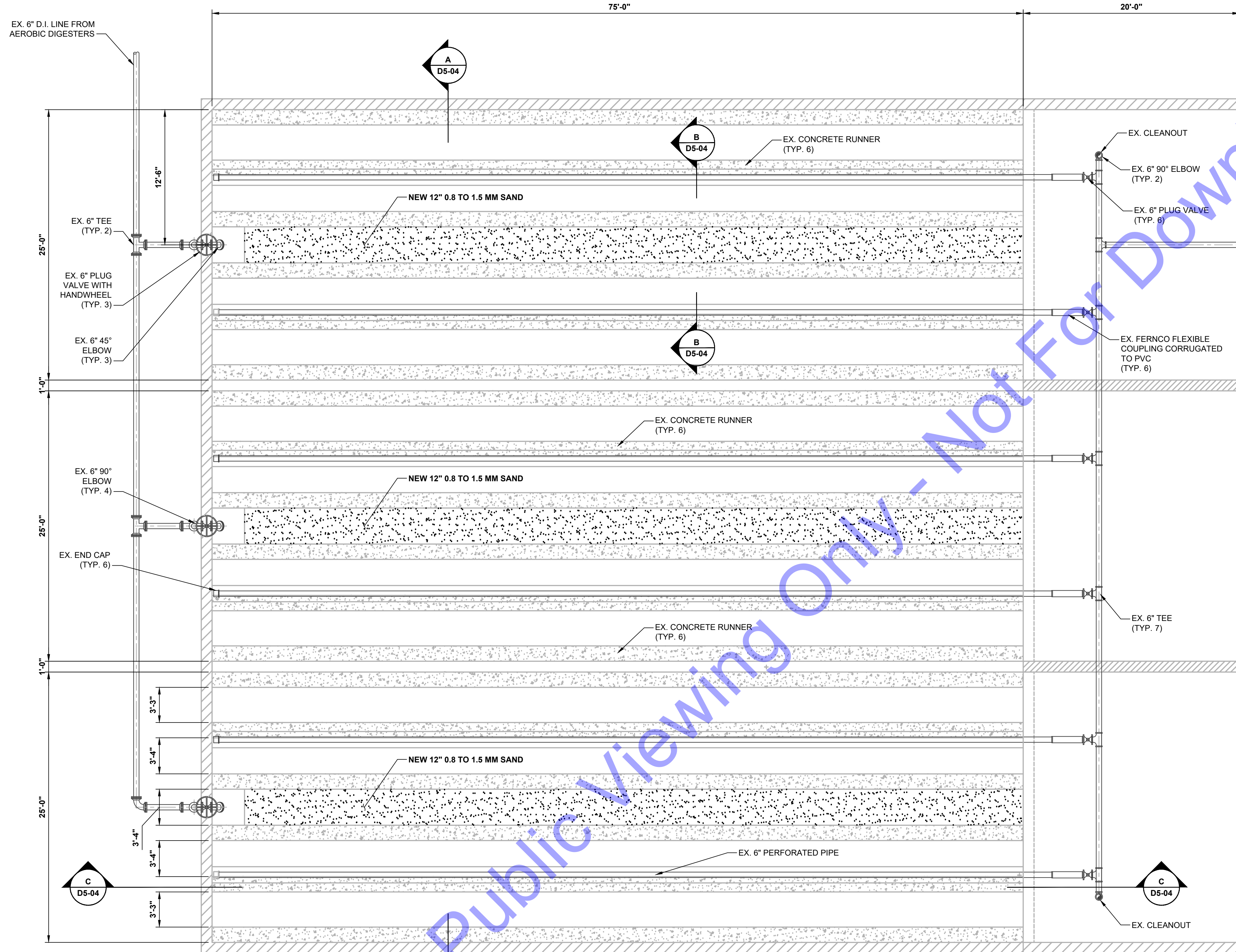
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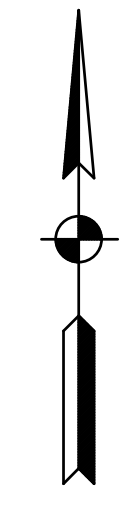
Issue Date: JAN. 2024
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EXISTING SLUDGE DRYING BEDS - DEMOLITION SECTION VIEWS
 Drawing No: **D5-02**
 Sheet: 74 OF 177

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PLAN
 SCALE: 3/16"=1'-0"
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Signature: *E.R.C. Pars* Date: 01/24/24

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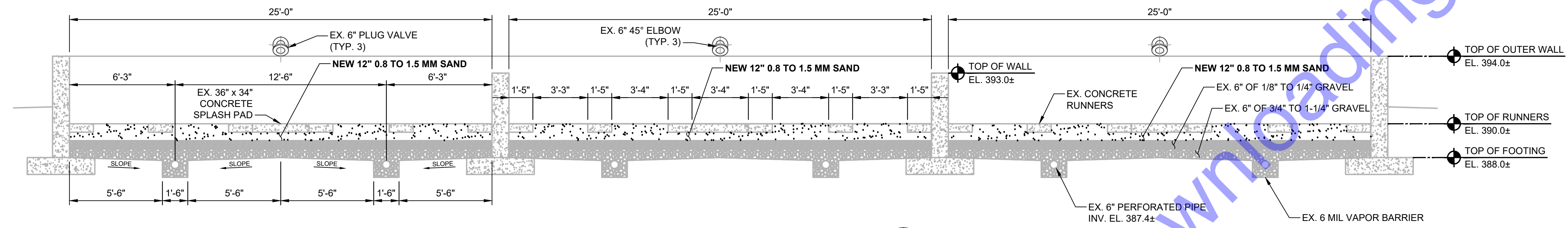
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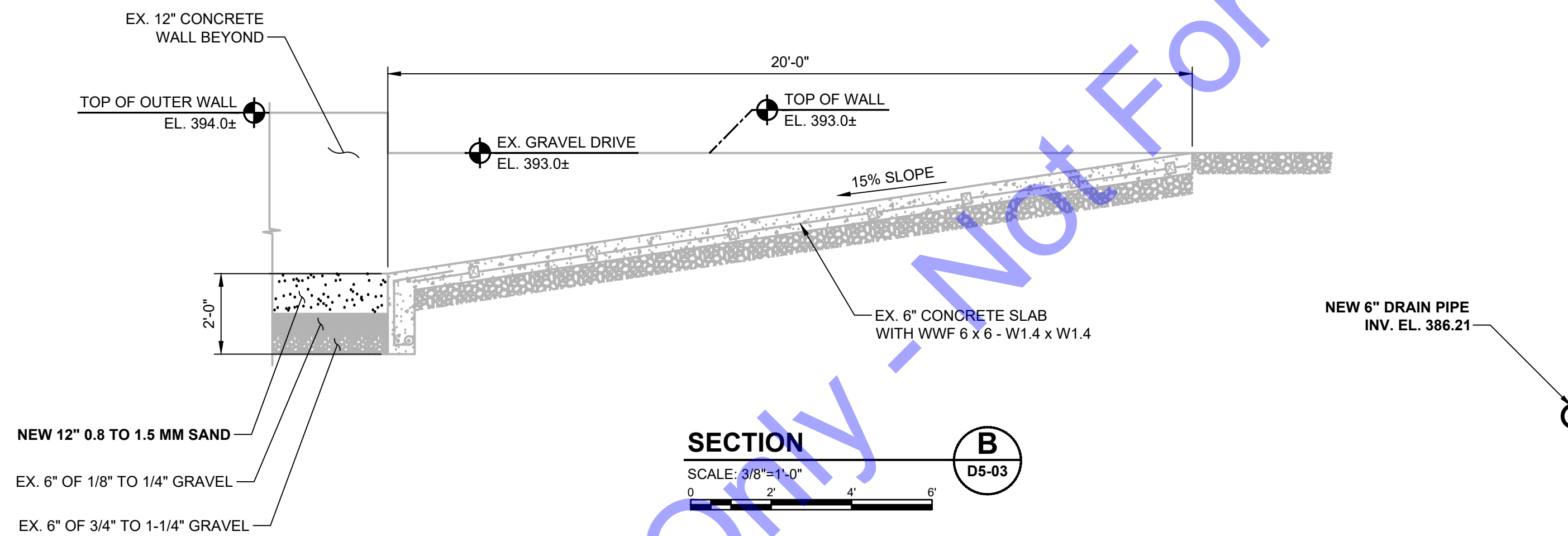
EXISTING SLUDGE DRYING BEDS - IMPROVEMENTS PLAN VIEW

Drawing No:
D5-03
 Sheet: 75 OF 177

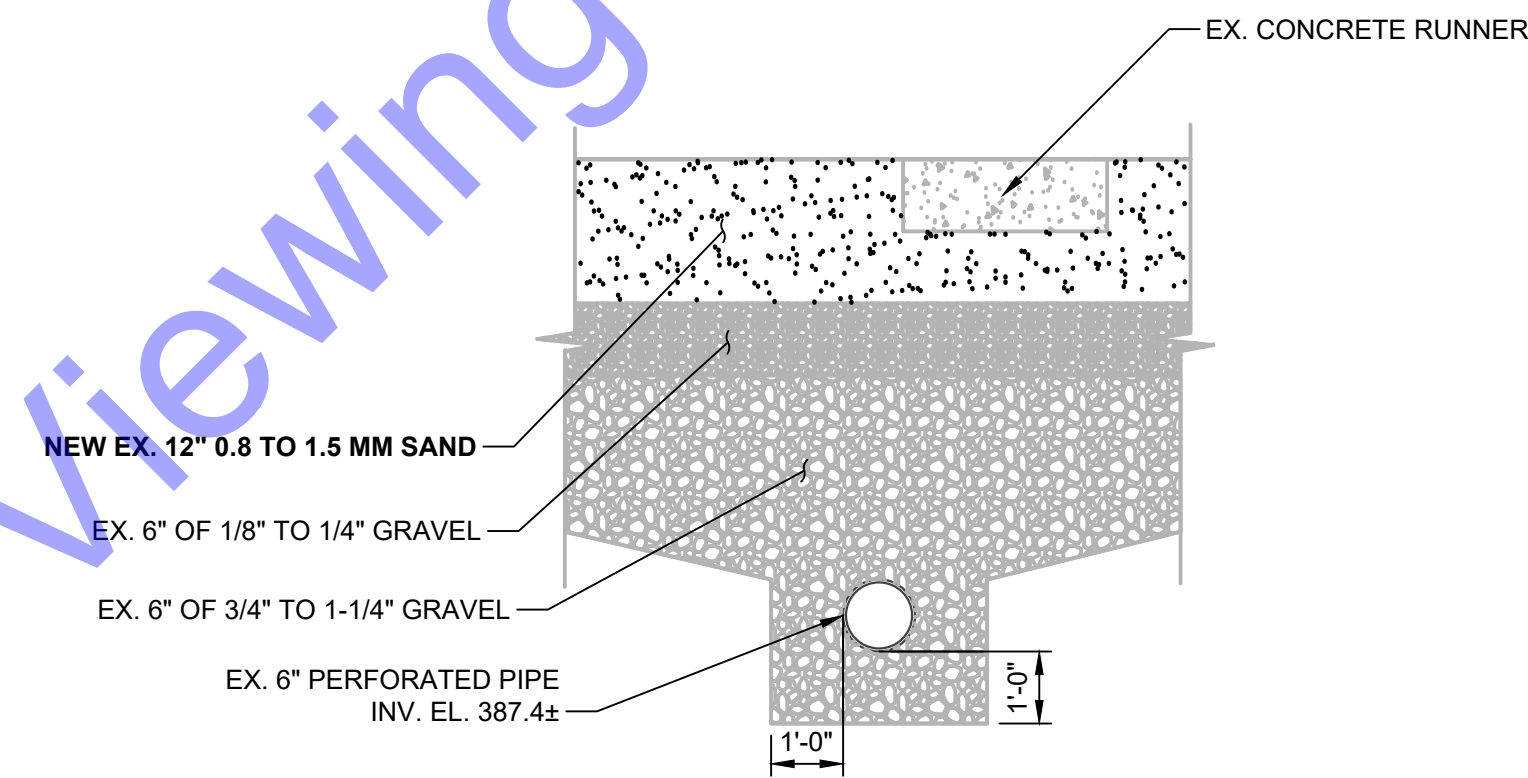
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SECTION A
 SCALE: 3/8"=1'-0"
 D5-03



SECTION B
 SCALE: 3/8"=1'-0"
 D5-03



SECTION C
 SCALE: 3/8"=1'-0"
 D5-03

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Professional Engineer
 No. 102003330
 STATE OF INDIANA
 Signature: *E.T. Pars* Date: 01/24/24

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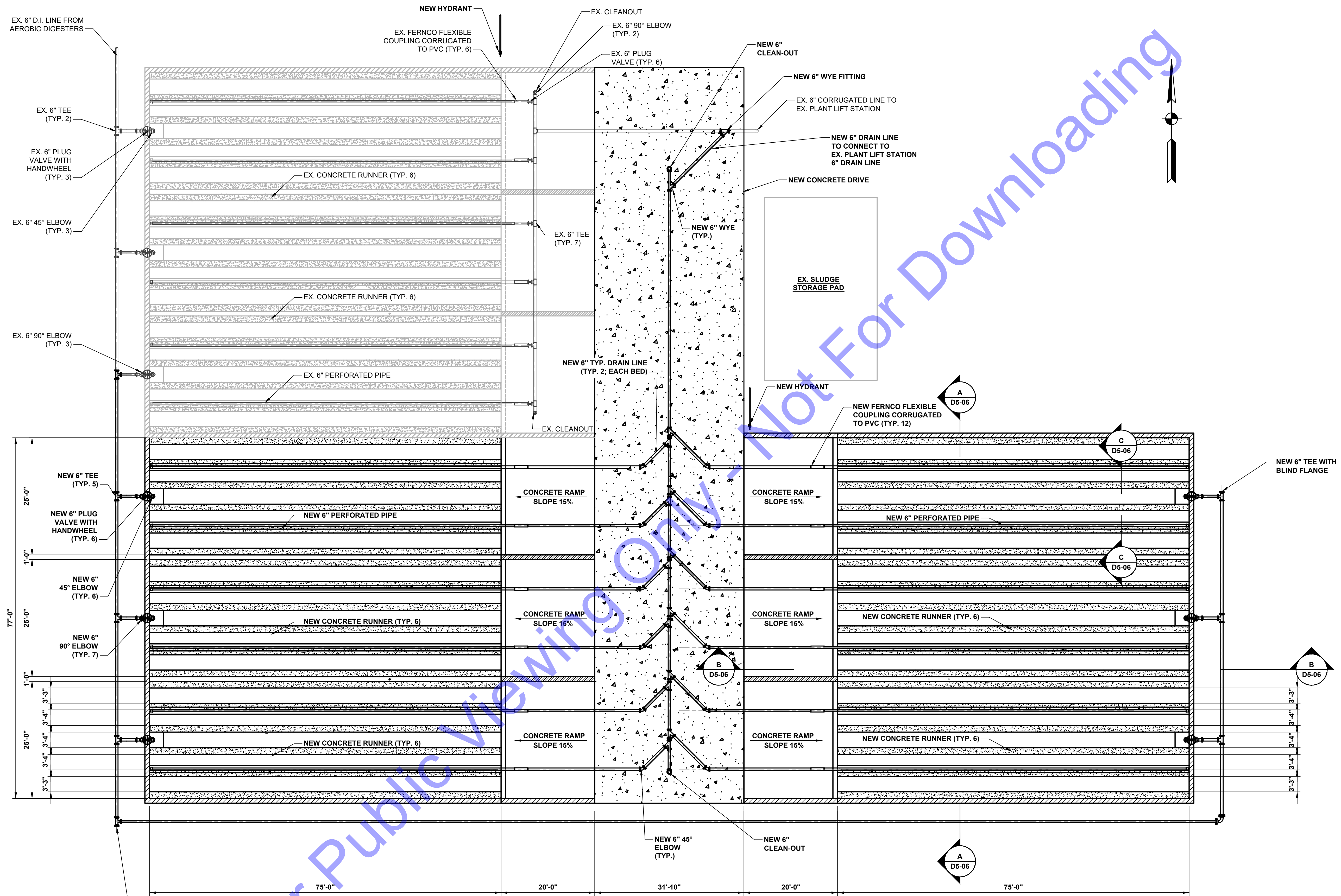
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Issue Date: JAN. 2024	Project No: S20107	Scale: AS SHOWN

EXISTING SLUDGE DRYING BEDS - IMPROVEMENTS SECTION VIEWS

Drawing No:
D5-04
 Sheet: 76 OF 177

FILE: Z:\SHARED\CLIENTS\ROCKPORT\03107 WASTE WATER LTCP PHASE 4B\CAD\CURRENT FILES\DRAWINGS\DIVISION A - WWTF10-EX. SLUDGE DRYING BEDS.DWG
 Sheet: 49/204 3:16:51 AM Pinned: 4/10/2024 2:55:59 PM Current User: D:\n\high\lambert@indiana81.com



PLAN
 SCALE: 3/32"=1'-0"
 0 8' 16' 24'

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 No. 10200330
 STATE OF INDIANA
 PROFESSIONAL ENGINEER
 Signature: [Signature]
 Date: 01/24/24

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SPENCER COUNTY, INDIANA
WASTEWATER LTCP PHASE 4 PROJECT
DIVISION "A" - WWTP

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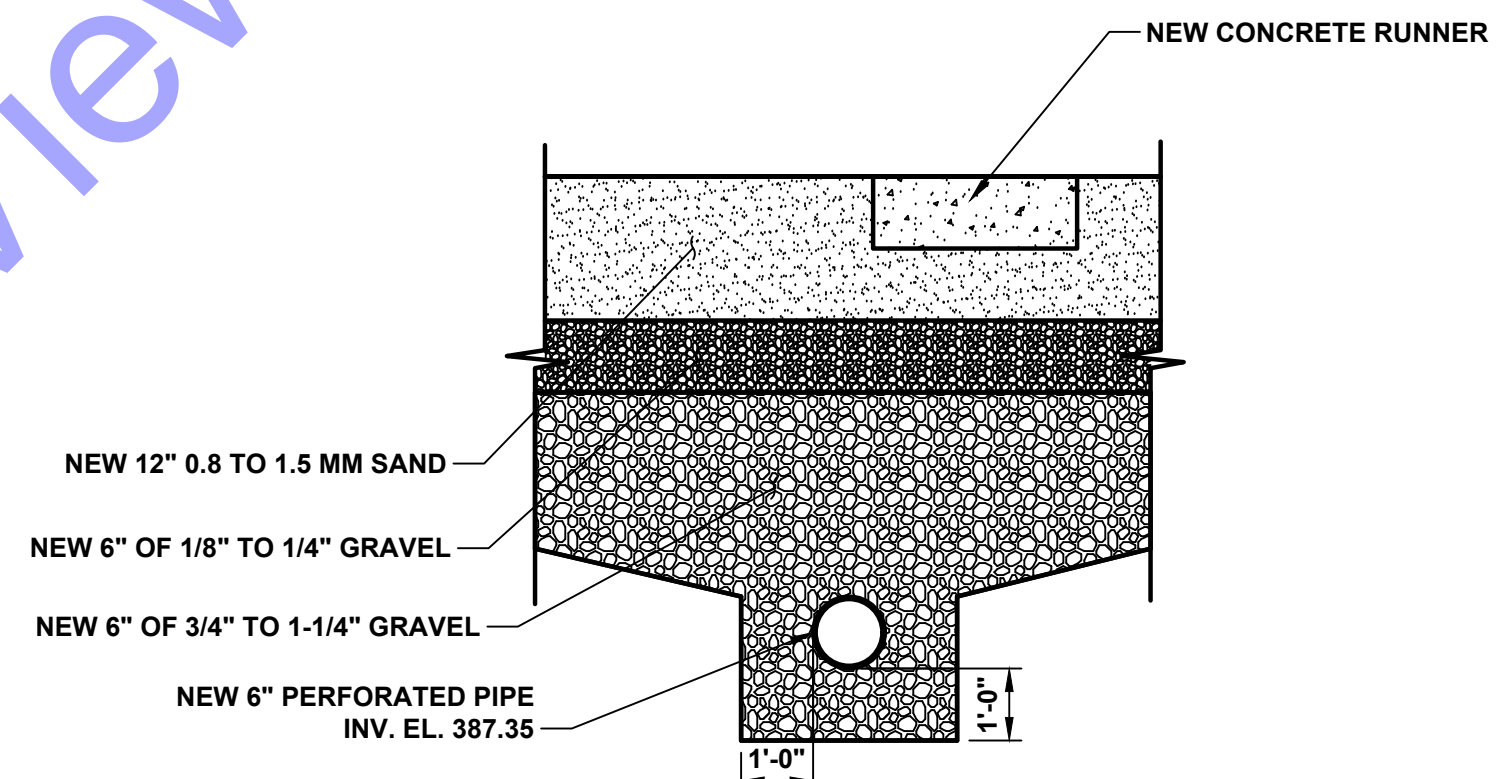
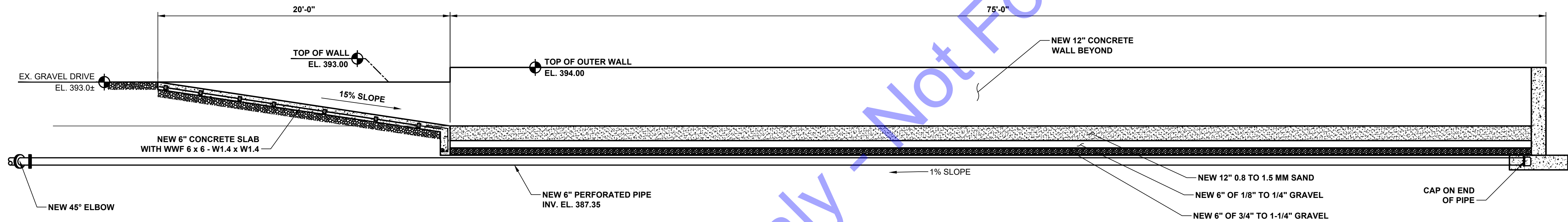
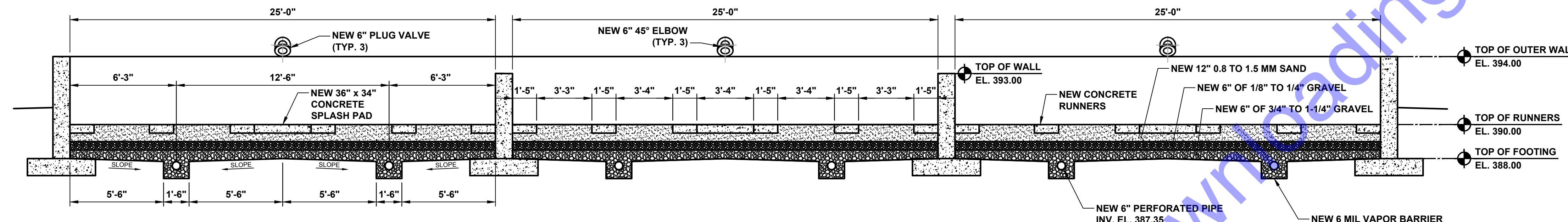
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NEW SLUDGE DRYING BEDS - PLAN VIEW

Drawing No:
D5-05
 Sheet: 77 OF 177

FILE: Z:\SHARED\CLIENTS\ROCKPORT\02107 WASTE WATER LTCP PHASE 4B\CAD\CURRENT FILES\DRAWINGS\DIVISION A - WWTP\10-EX. SLUDGE DRYING BEDS.DWG
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 STATE OF INDIANA
 PROFESSIONAL ENGINEER
 Signature: *[Signature]* Date: 01/24/24

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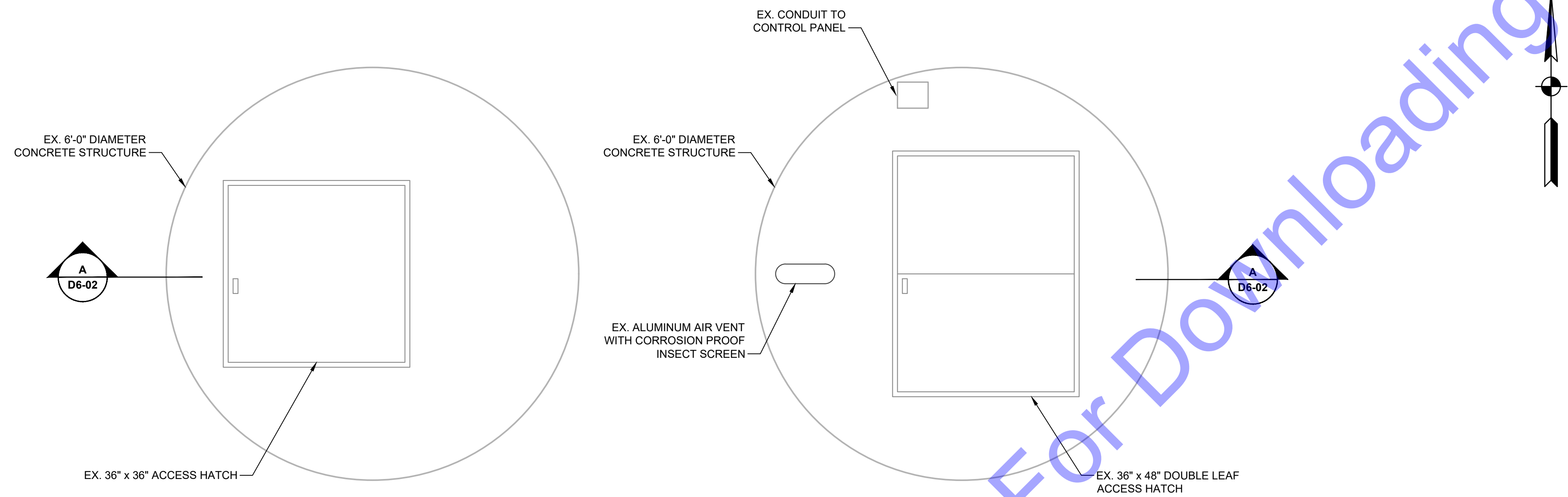
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NEW SLUDGE DRYING BEDS - SECTIONS VIEWS

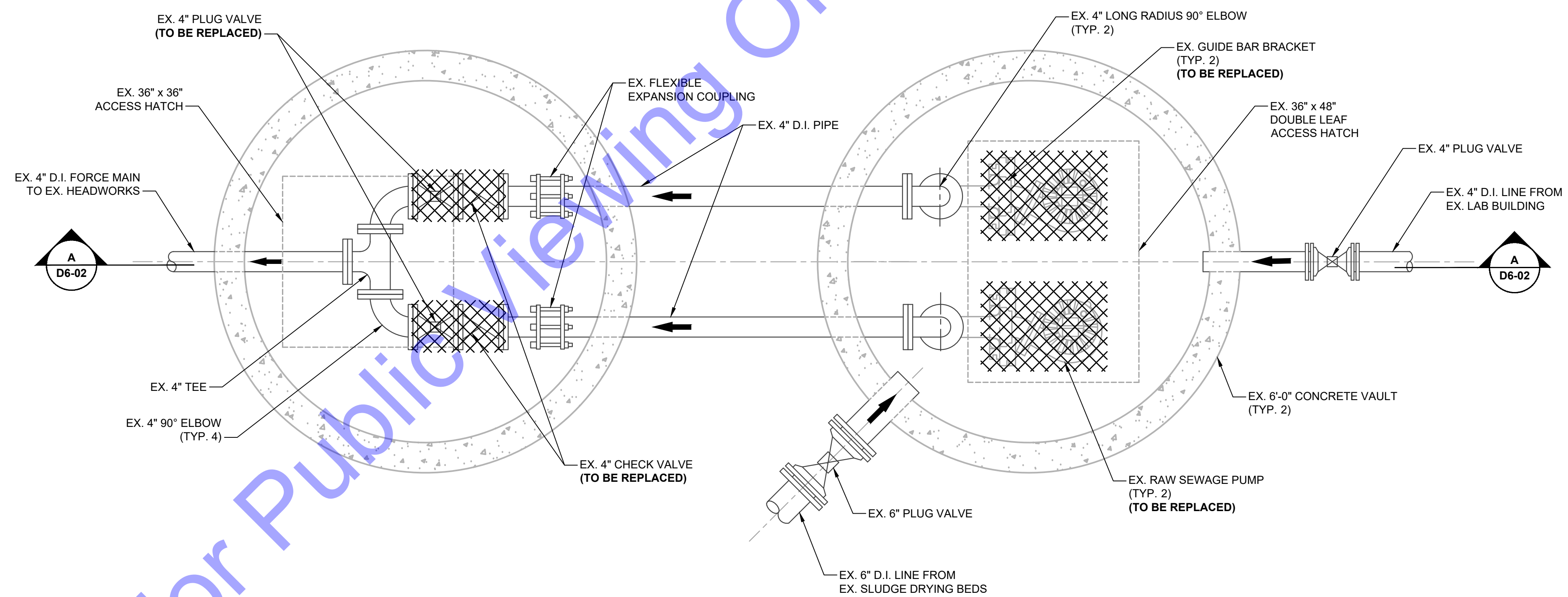
Drawing No: **D5-06**
 Sheet: 78 OF 177

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FILE: Z:\SHARED\CLIENTS\23\ROCKPORT\031017 WASTE WATER LTCP PHASE 4B\CAD\CURRENT FILES\DRAWINGS\DIVISION A - WWTPT11-EX PLANT LIFT STATION.DWG
 Sheet: 3/22/2024, 3:12:07 PM, Rev: 4/10/2024, 2:55:14 PM, Current User: Dylan Nigley, Last Saved By: mmassey



UPPER PLAN
 SCALE: 3/4"=1'-0"
 0 1' 2' 3'



LOWER PLAN
 SCALE: 3/4"=1'-0"
 0 1' 2' 3'

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 Signature: [Signature] Date: 01/24/24

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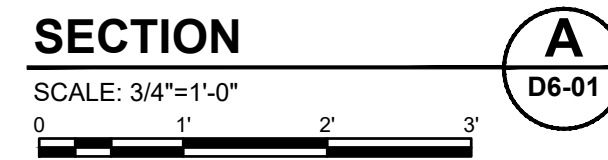
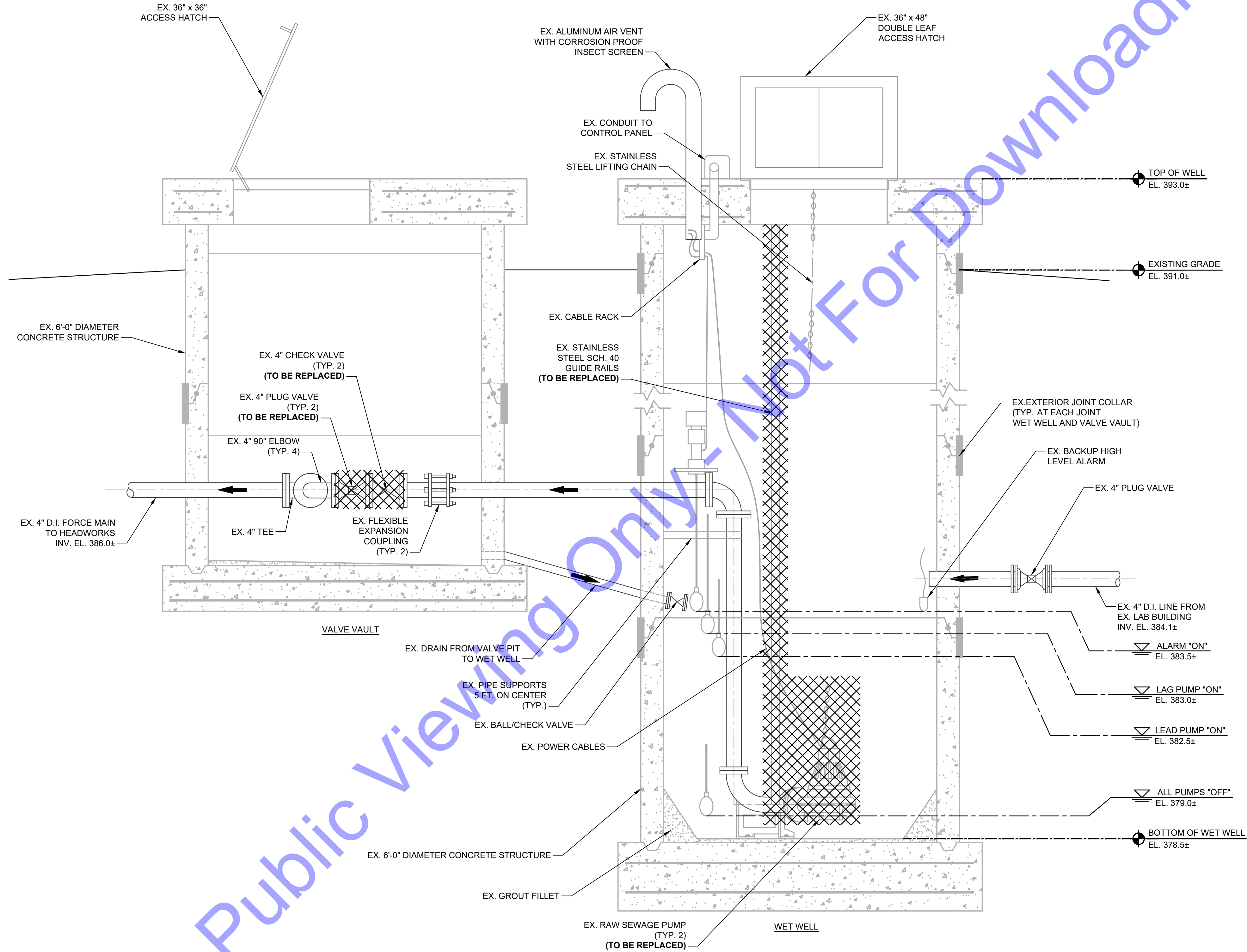
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Issue Date: JAN. 2024	Project No: S20107	Scale: AS SHOWN

**EXISTING PLANT SITE
 LIFT STATION -
 DEMOLITION PLAN
 VIEWS**

Drawing No:
D6-01
 Sheet: 79 OF 177

FILE: Z:\SHARED\IN\CLIENTS\NR\ROCKPORT\D6-01\07 WASTE WATER LIFT STATION - WWP711-EX-PLANT LIFT STATION.DWG
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 E.R.C. T. PARS ET AL.
 REGISTERED
 No. 10200330
 STATE OF INDIANA
 PROFESSIONAL ENGINEER
 Signature: [Signature] Date: 01/24/24

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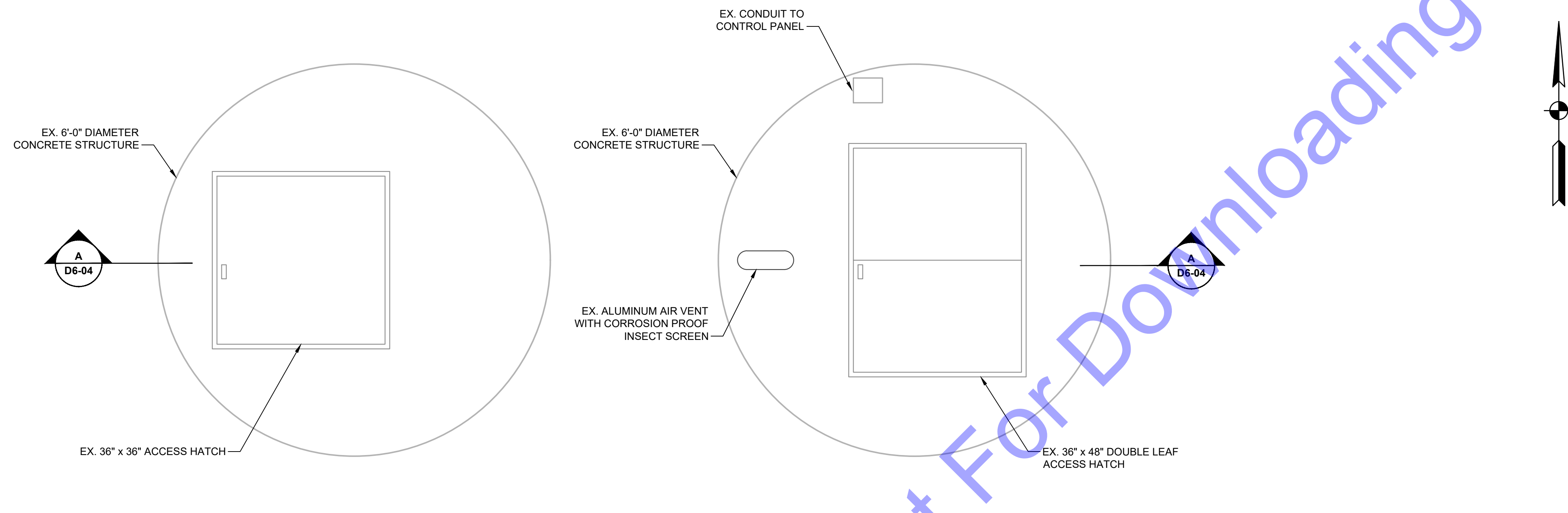
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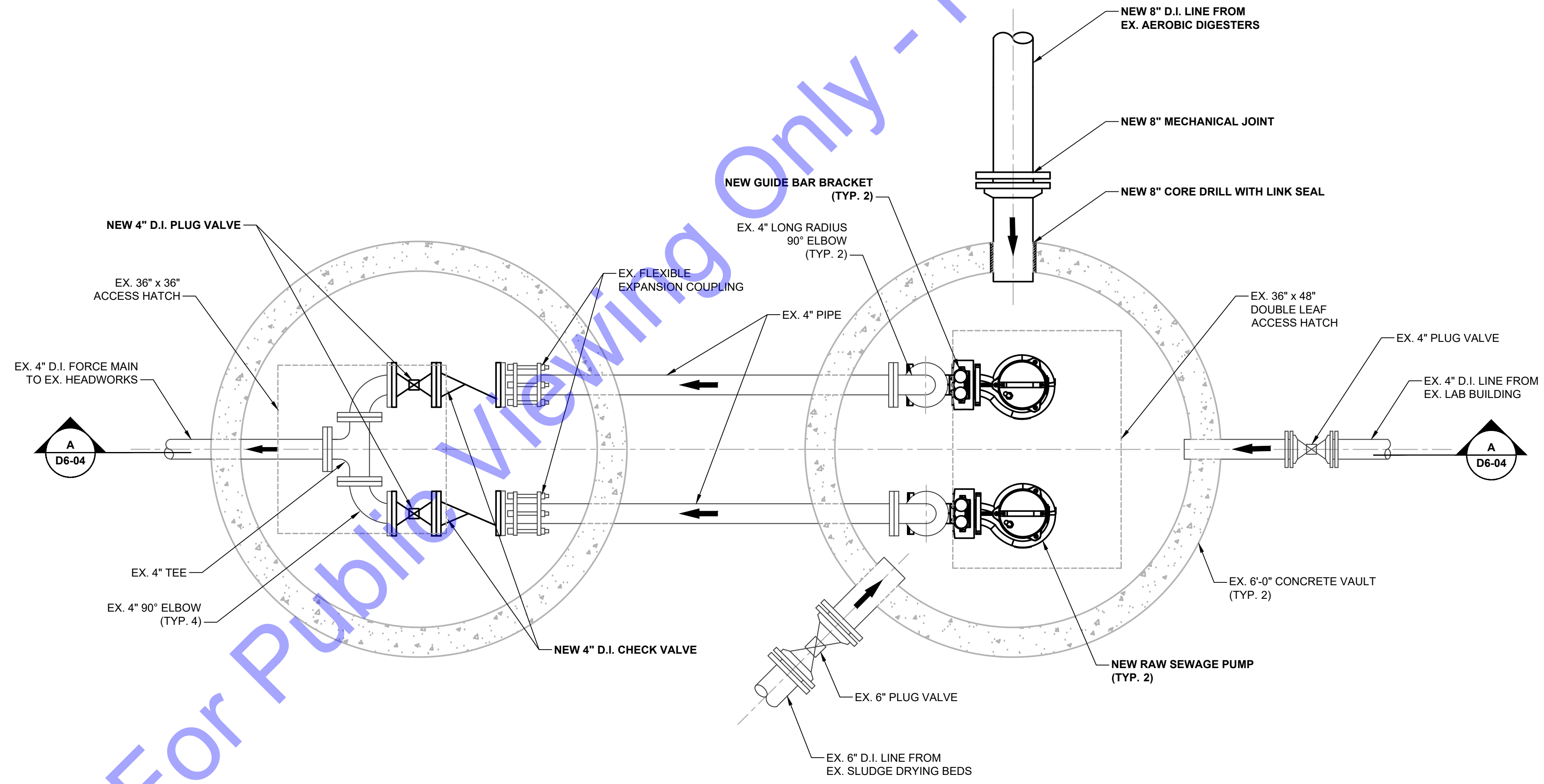
EXISTING PLANT SITE LIFT STATION - DEMOLITION SECTION VIEW

Drawing No:
D6-02
 Sheet: 80 OF 177

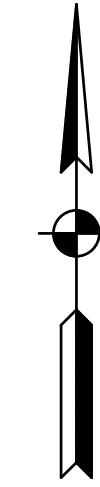
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UPPER PLAN
 SCALE: 3/4"=1'-0"
 0 1 2 3



LOWER PLAN
 SCALE: 3/4"=1'-0"
 0 1 2 3



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Professional Engineer Seal for Eric T. Parsi, No. 10200330, State of Indiana.
 Signature: *Eric T. Parsi* Date: 01/24/24

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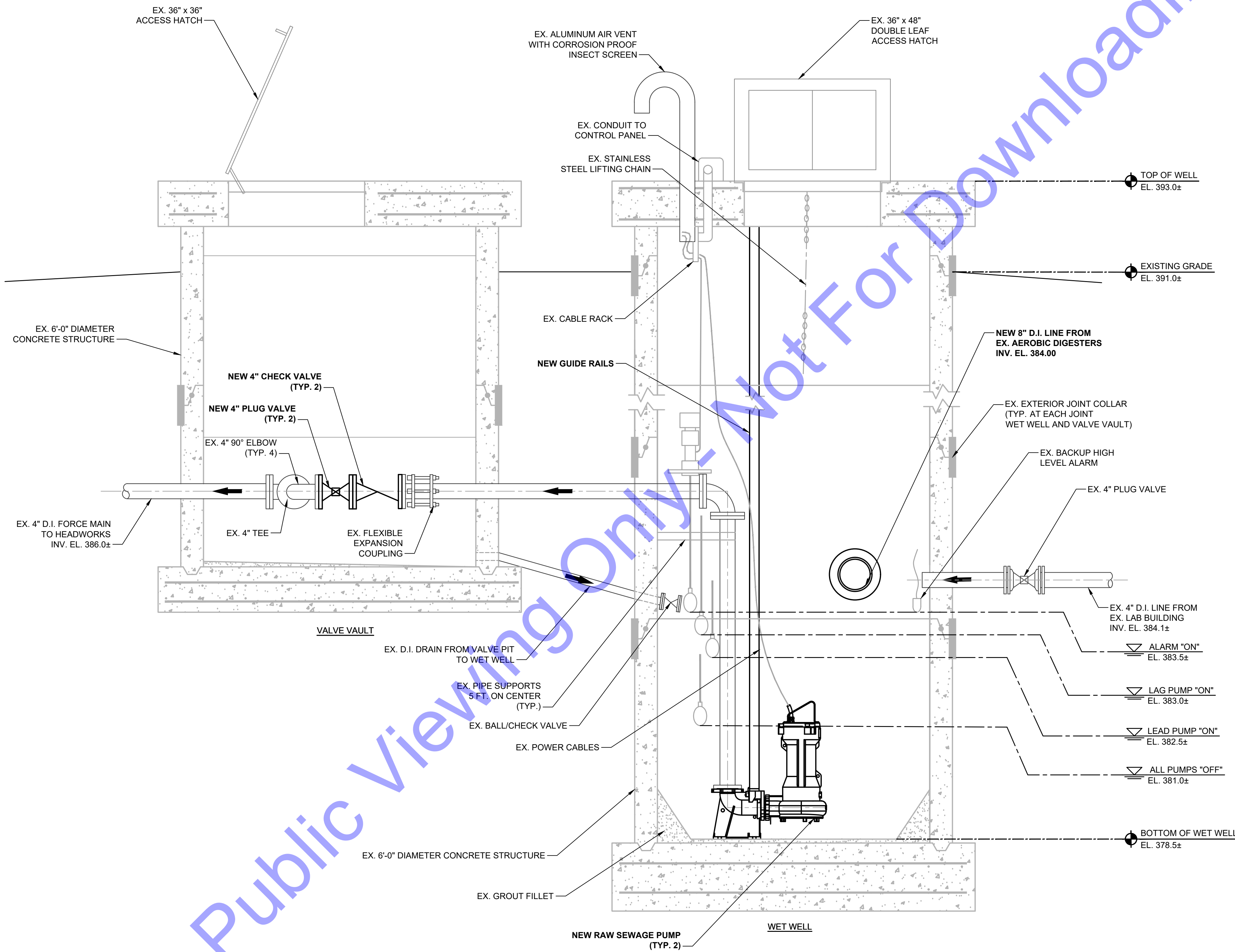
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**EXISTING PLANT SITE
 LIFT STATION -
 IMPROVEMENTS PLAN
 VIEW**

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SECTION
 SCALE: 3/4"=1'-0"
 0 1' 2' 3'

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Professional Engineer Seal:
 No. 10200330
 STATE OF INDIANA
 PROFESSIONAL ENGINEER

Signature: *E.T. Parsley* Date: 01/24/24

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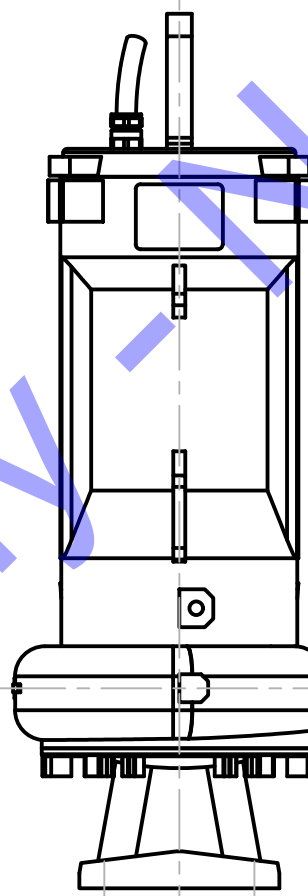
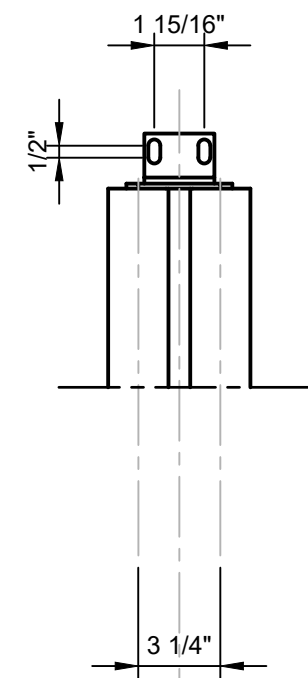
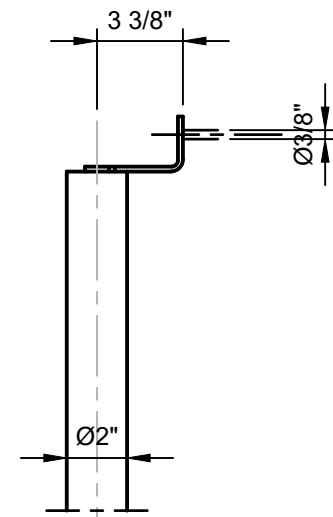
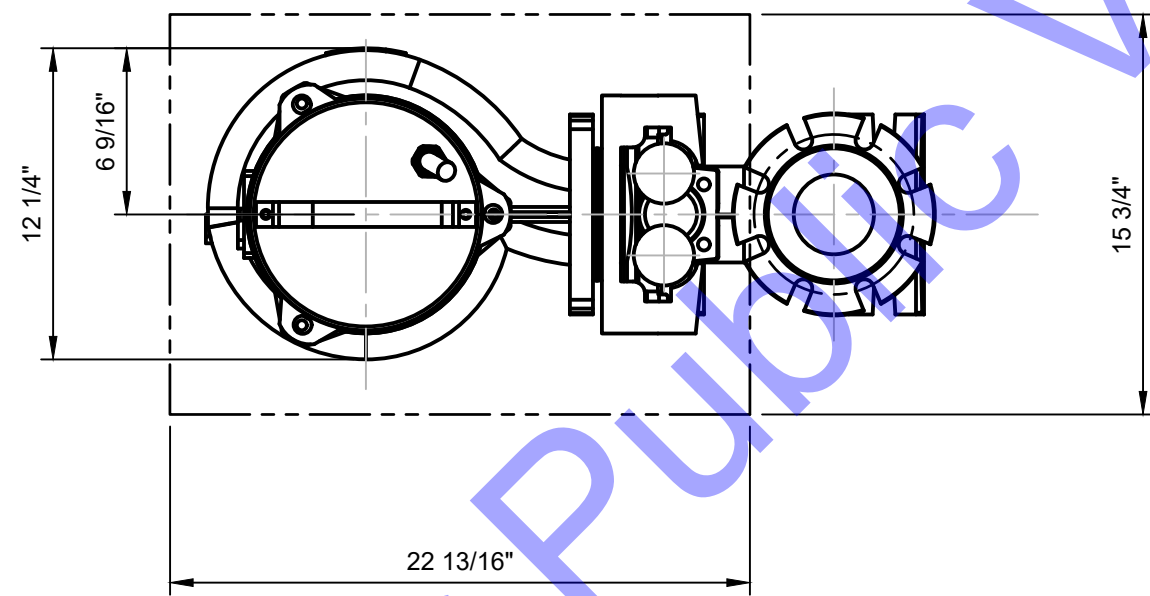
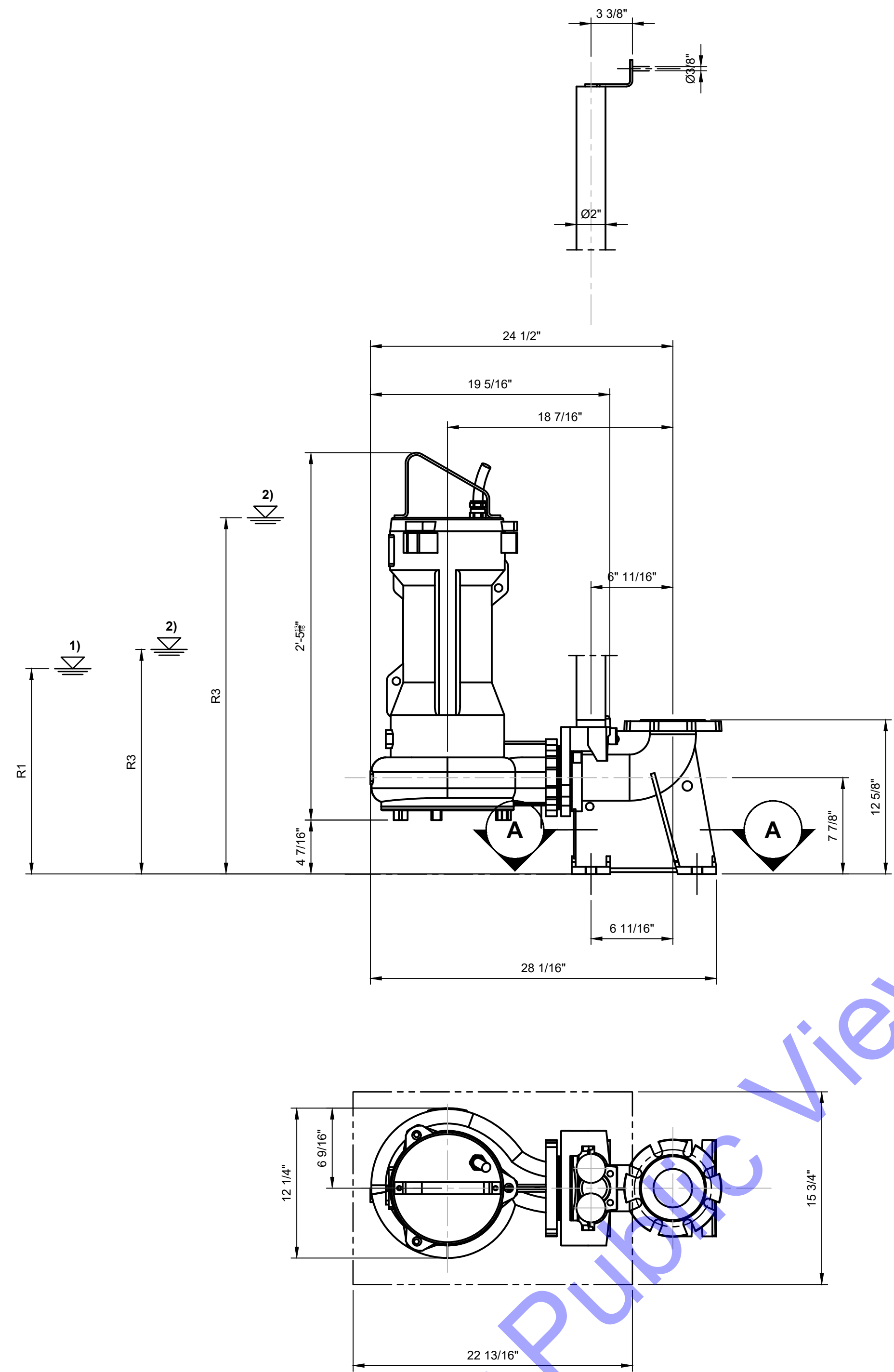
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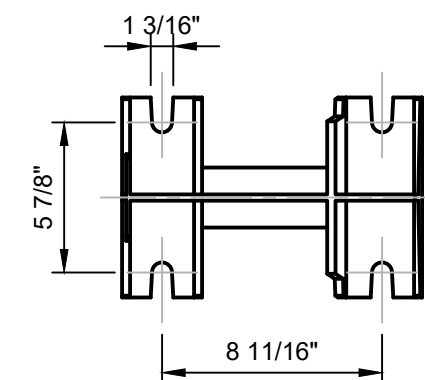
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**EXISTING PLANT SITE
 LIFT STATION -
 IMPROVEMENTS
 SECTION VIEW**

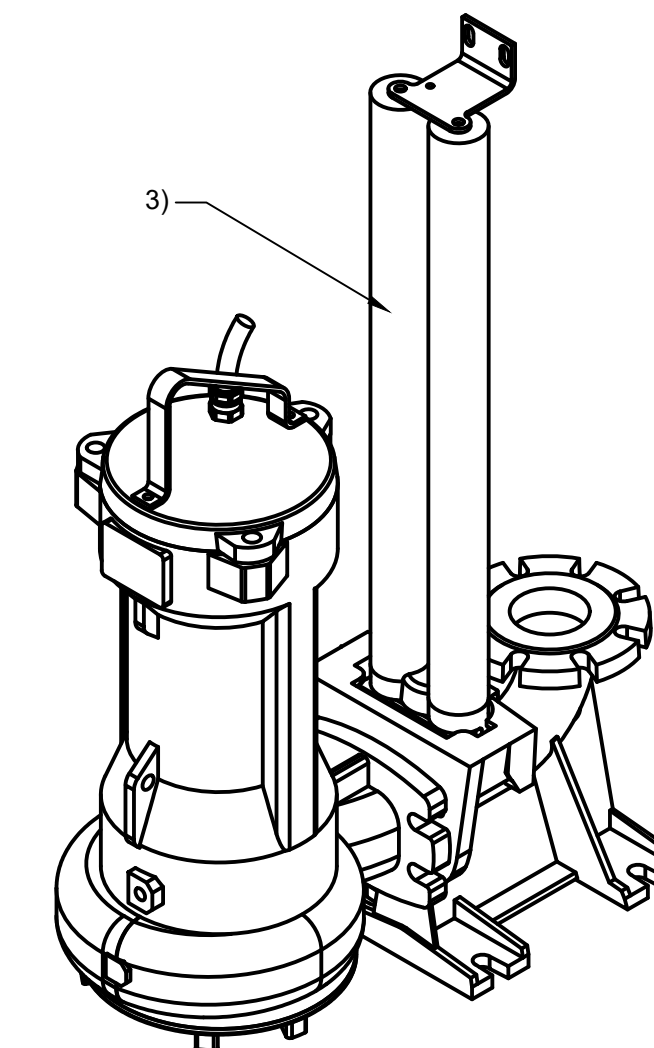
Drawing No:
D6-04
 Sheet: 82 OF 177



SECTION A
NOT TO SCALE



LAUFRAD IMPELLER	MOTOR ENGINE	50 HZ	60 HZ	EFFIZIENZKLASSE EFFICIENCY CLASS	MOTORAUFSÜHRUNG MOTOR VERSION	INCH				LBS
						a1	R1	R3	R3'	
D	36 4 NG11M	X	-	C	U	30 1/16	17 5/16	15 12/16	-	...
	36 4 NG11M	X	-	C	Y	30 7/16		15 12/16	-	...
	45 4 NG11M	X	X	C	U	30 1/16		18 14/16	-	...
	45 4 NG11M	X	X	C	Y	30 7/16		18 14/16	-	...
	65 4 NG11M	X	X	F	U	30 1/16		-	29 2/16	...
	65 4 NG11M	X	X	F	Y	30 7/16		-	29 8/16	...
	70 4 NG11M	-	X	F	U	30 1/16		-	29 2/16	...
	70 4 NG11M	-	X	F	Y	30 7/16		-	29 8/16	...
	77 4 NG11M	-	X	F	U	30 1/16		-	29 2/16	...
	77 4 NG11M	-	X	F	Y	30 7/16		-	29 8/16	...



NOTES:

1. TIEFSTER AUSSCHALTPUNKT BEI AUTOMATIKBETRIEB. LOWEST SHUT-OFF POINT FOR AUTOMATIC OPERATION.
2. MINDESTÜBERDECKUNG BEI DAUERBETRIEB. MINIMUM SUBMERGENCE FOR CONTINUOUS OPERATION.
3. NICHT IM KSB-LIEFERUMFANG ENTHALTEN. NOT INCLUDED IN KSB'S SCOPE OF SUPPLY.
4. (A1) GEWICHT PUMPENAGGREGAT (WERKSTOFFAUSFÜHRUNG G) MIT 10 M ELEKTRISCHER ANSCHLUSSLEITUNG. (A1) WEIGHT OF PUMP SET (MATERIAL VARIANT G) WITH 10 M POWER CABLE.

GENERAL NOTE:

THIS DETAIL HAS BE ACQUIRED FROM KSB SE & Co.
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 Signature: *E.T. Parsley*
 Date: 01/24/24

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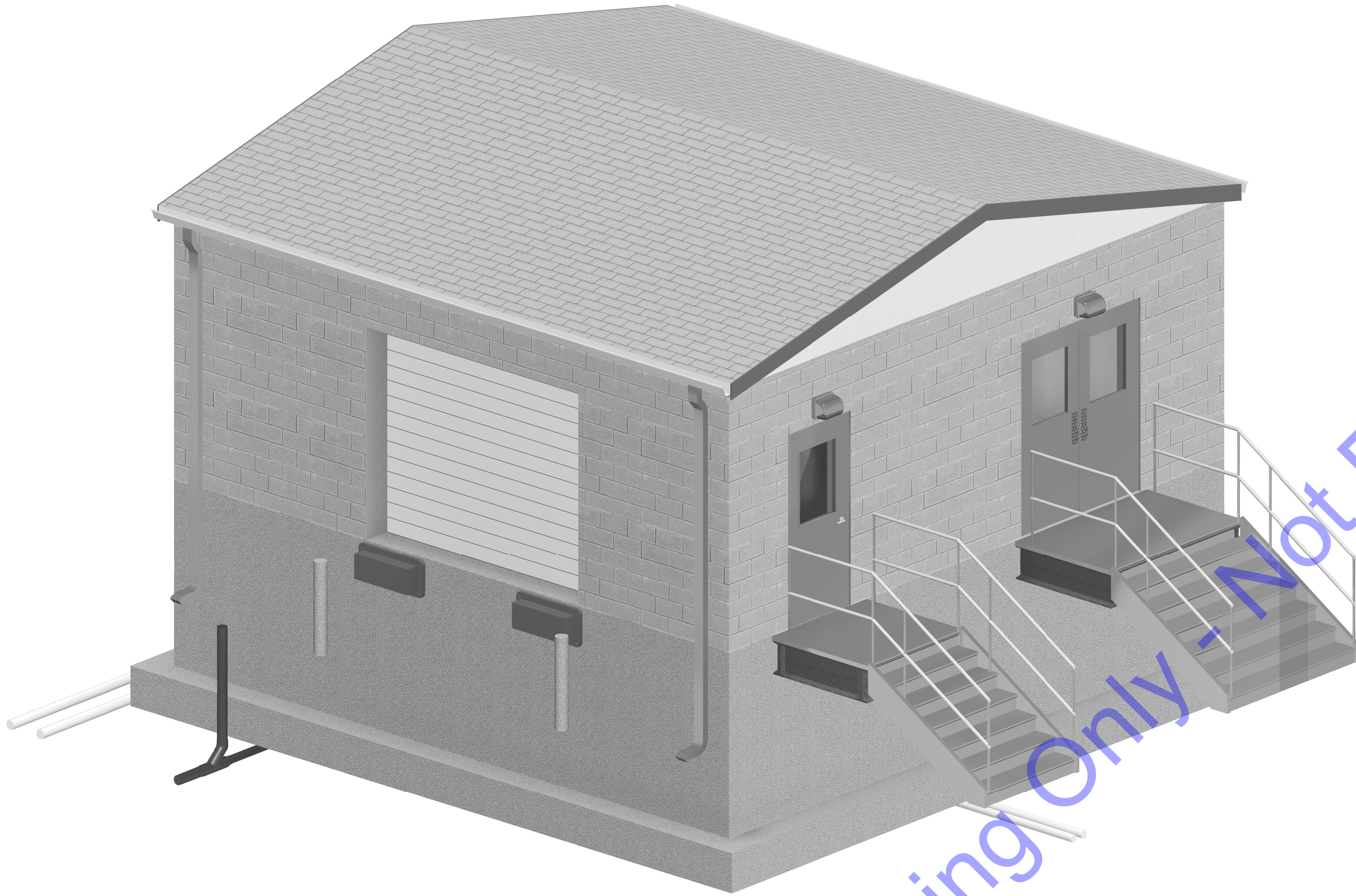
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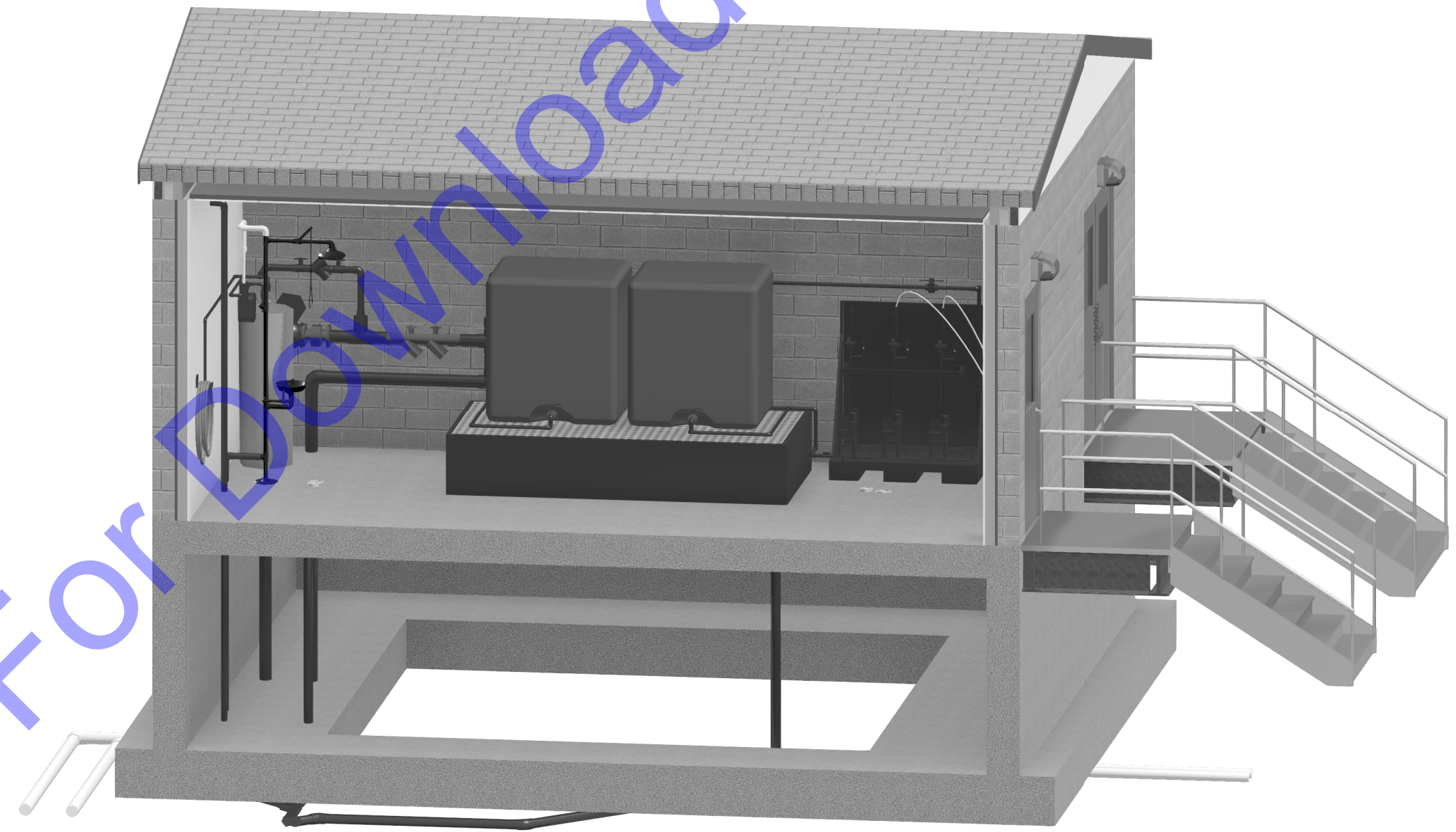
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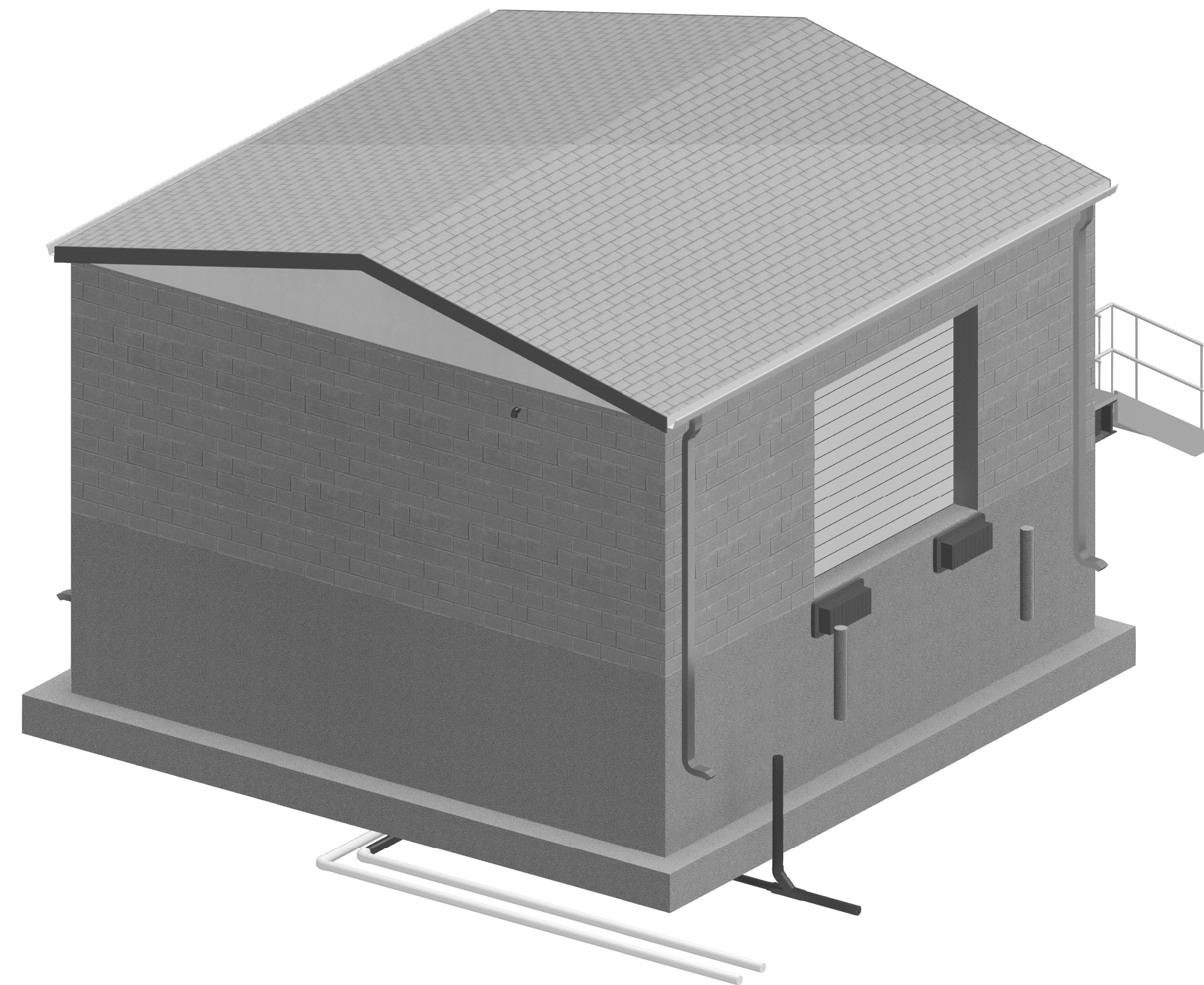
EXISTING PLANT SITE
LIFT STATION -
EQUIPMENT DETAILS



NORTHEAST ISOMETRIC VIEW
SCALE: NOT TO SCALE



EAST ISOMETRIC VIEW
SCALE: NOT TO SCALE



SOUTHEAST ISOMETRIC VIEW
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ERIC T. PARS, EIT
REGISTERED
No. 10200330
STATE OF INDIANA
PROFESSIONAL ENGINEER

Eric T. Pars 1/24/24
Signature Date

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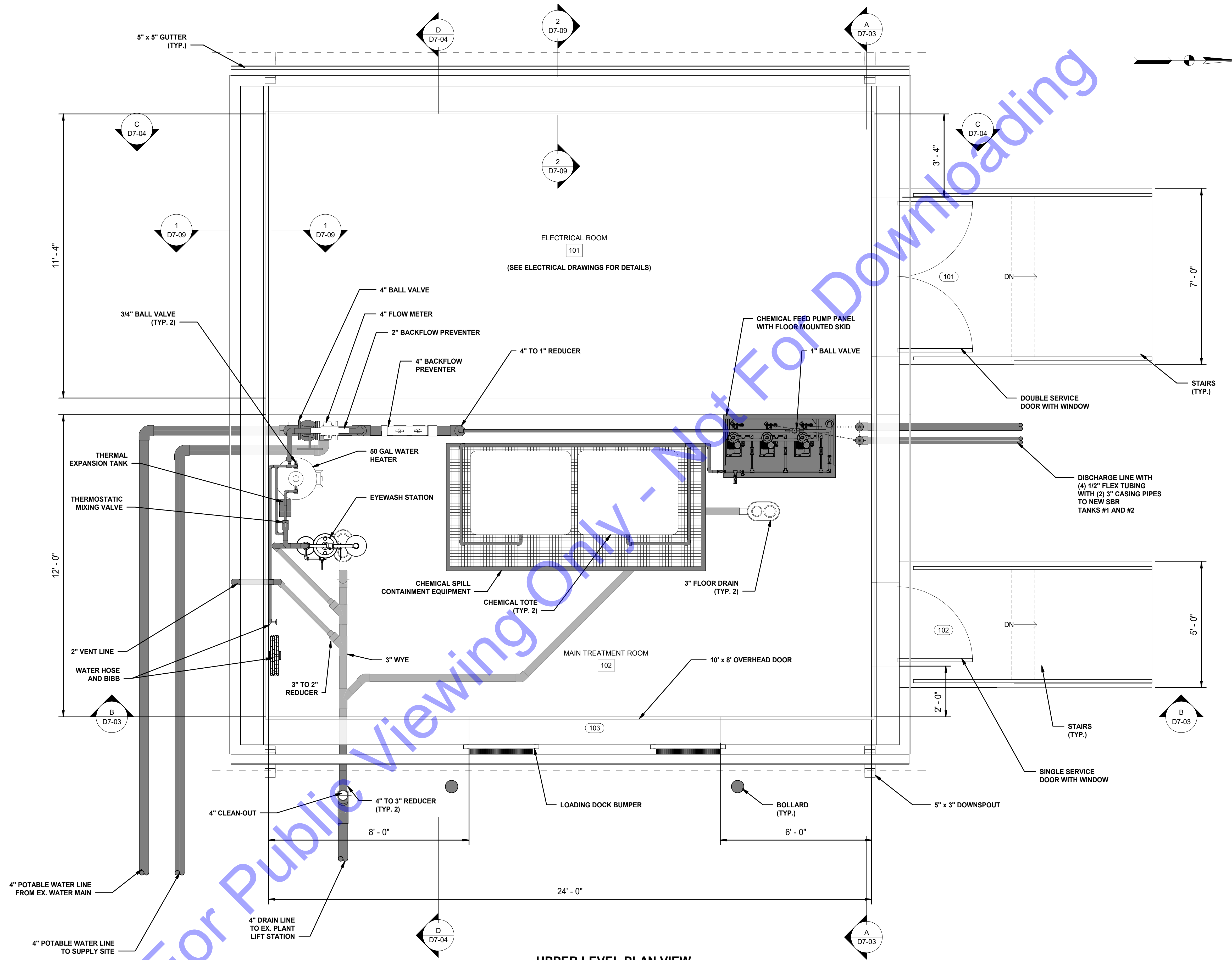
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NEW CHEMICAL FEED AND ELECTRICAL BUILDING - ISOMETRIC VIEWS



UPPER LEVEL PLAN VIEW

SCALE: 1/2" = 1'-0"
0' 1' 2' 4'

GENERAL NOTE

- CONTRACTOR SHALL REFER TO ELECTRICAL DRAWINGS FOR LAYOUT OF PANELS AND EQUIPMENT.

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 No. 10200330
 STATE OF INDIANA
 PROFESSIONAL ENGINEER
 Signature: *E.T. Pars* Date: 1/24/24

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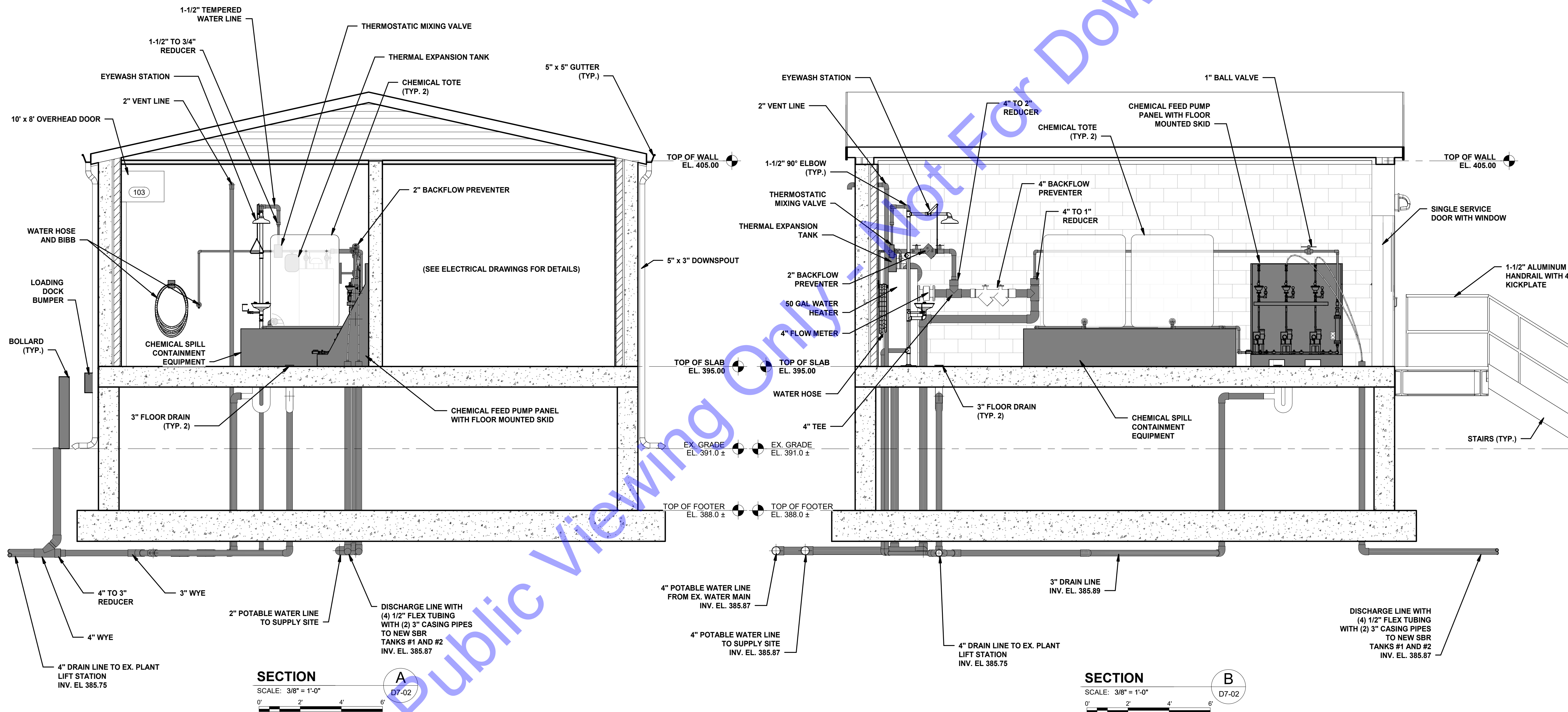
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NEW CHEMICAL FEED AND ELECTRICAL BUILDING - PLAN VIEW

Drawing No:
D7-02
 Sheet: 85 OF 177

Saved: 4/10/2024 8:30:49 AM Current Local File: BIM_360/rockport WWTP Project/NEW CHEMICAL FEED AND ELECTRICAL BUILDING_21.rvt



SECTION A
 SCALE: 3/8" = 1'-0"
 D7-02

SECTION B
 SCALE: 3/8" = 1'-0"
 D7-02

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 REGISTERED PROFESSIONAL ENGINEER
 No. 10200330
 STATE OF INDIANA
 Signature: *E.T. Pars* Date: 1/24/24

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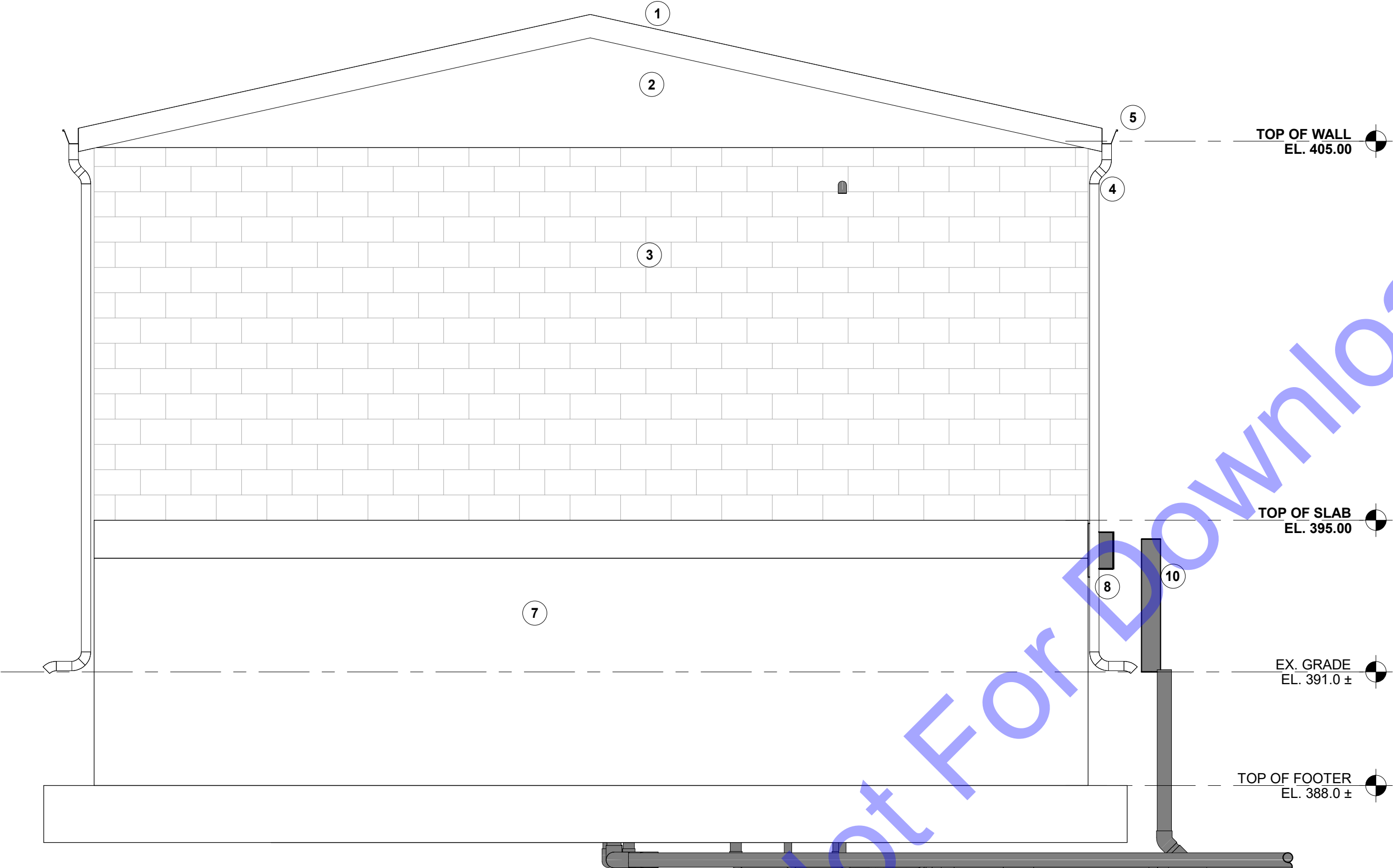
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Issue Date: JAN. 2024	Project No: S20107	Scale: AS SHOWN

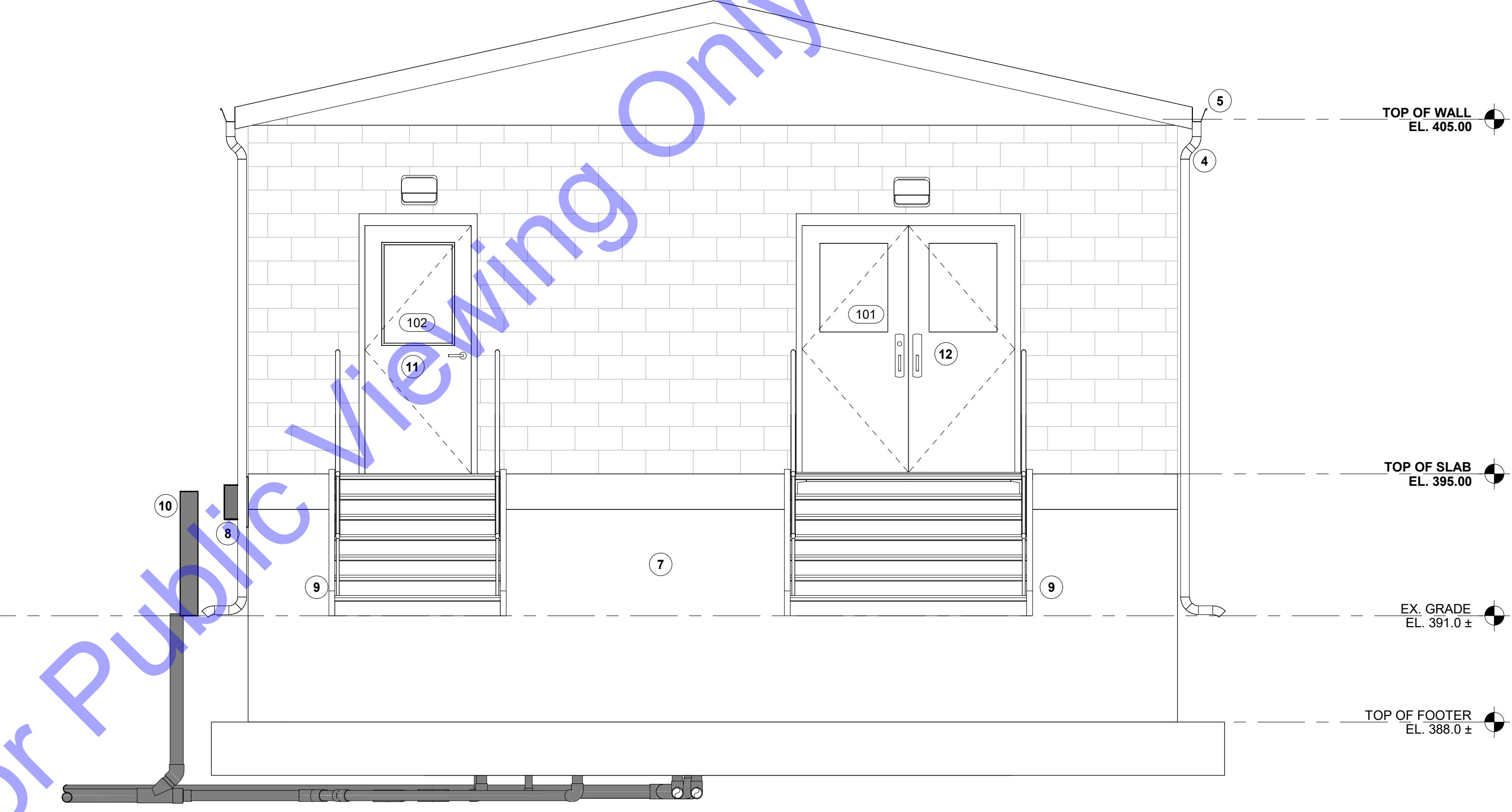
NEW CHEMICAL FEED AND ELECTRICAL BUILDING - SECTION VIEWS

Drawing No:
D7-03
 Sheet: 86 OF 177



WEST ELEVATION

SCALE: 3/8" = 1'-0"
 0' 2' 4' 6'



EAST ELEVATION

SCALE: 3/8" = 1'-0"
 0' 2' 4' 6'

ELEVATION VIEW KEYNOTE LEGEND:

- 1 FIBERGLASS SHINGLE ROOF
- 2 VINYL SIDING
- 3 SPLIT FACE CMU BLOCK
- 4 5" x 3" PREFINISHED ALUM. DOWNSPOUT
- 5 5" x 5" PREFINISHED ALUM. GUTTER
- 6 NEW 10' x 8' OVERHEAD DOOR
- 7 FOOTING AND FOUNDATION (SEE STRUCTURAL DRAWINGS)
- 8 LOADING DOCK
- 9 STAIRS
- 10 BOLLARD
- 11 NEW SINGLE ACCESS DOOR
- 12 NEW DOUBLE ACCESS DOOR

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Signature: *Eric T. Pars* Date: 1/24/24

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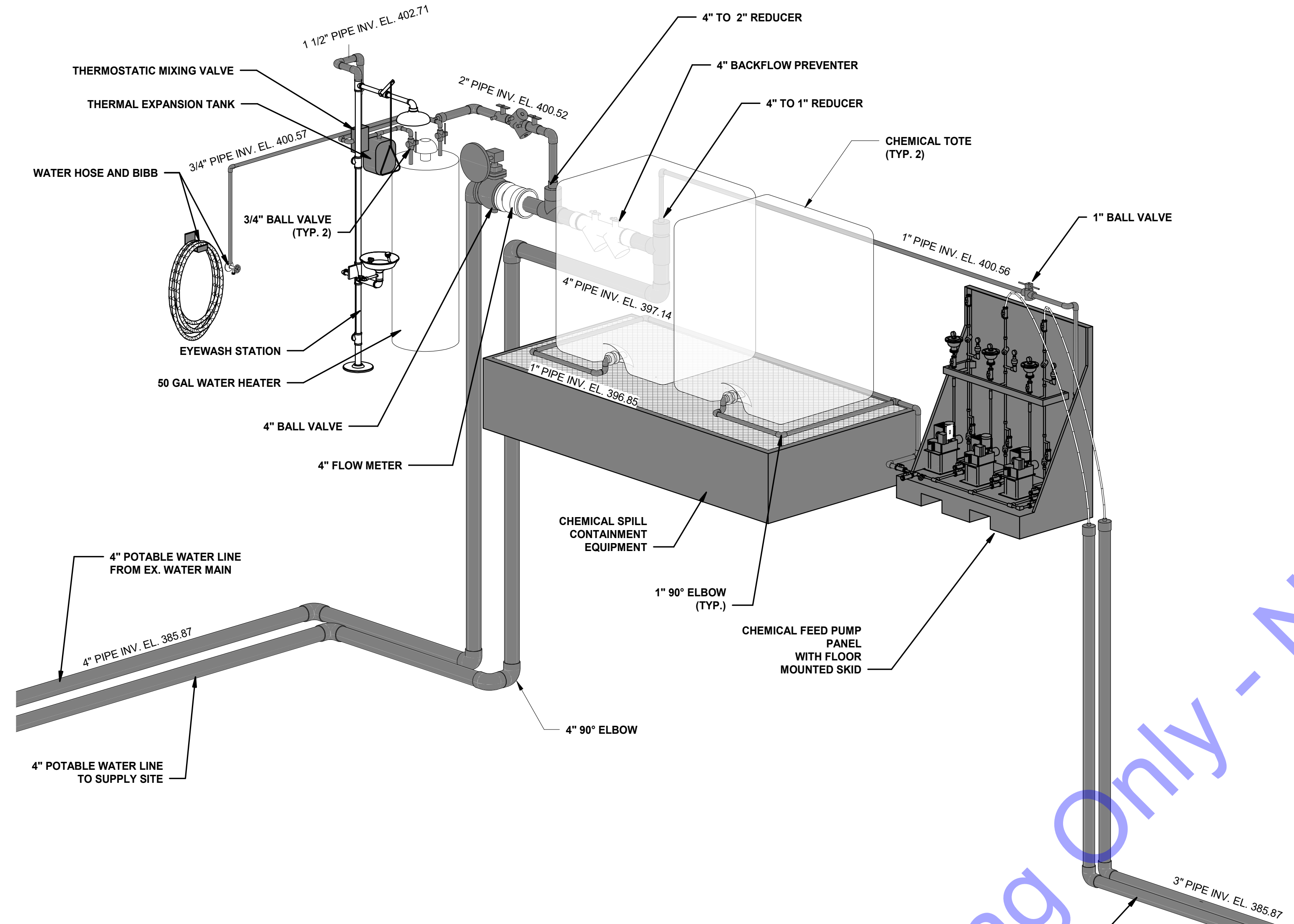
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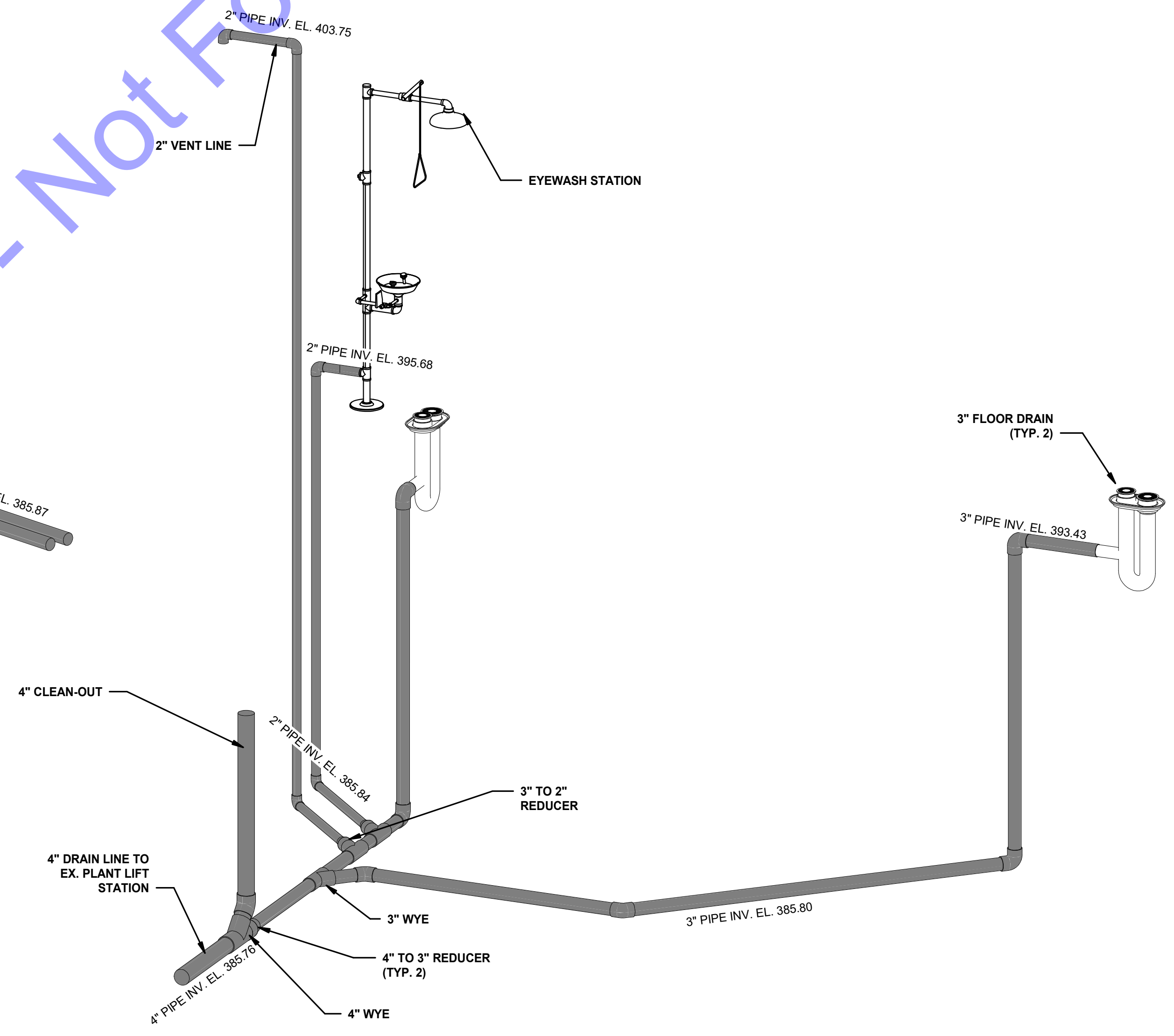
Designed By: JE	Drawn By: MJS	Checked By: EP
Issue Date: JAN. 2024	Project No: S20107	Scale: AS SHOWN

NEW CHEMICAL FEED AND ELECTRICAL BUILDING - EAST AND WEST ELEVATION VIEWS

Drawing No:
D7-06
 Sheet: 89 OF 177



CHEMICAL AND WATER SCHEMATIC
 SCALE: NOT TO SCALE



DRAIN SCHEMATIC
 SCALE: NOT TO SCALE

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ERIC T. PARS, EIT
 No. 10200330
 STATE OF INDIANA
 REGISTERED PROFESSIONAL ENGINEER
 Signature: *E.T. Pars* Date: 1/24/24

CITY OF ROCKPORT
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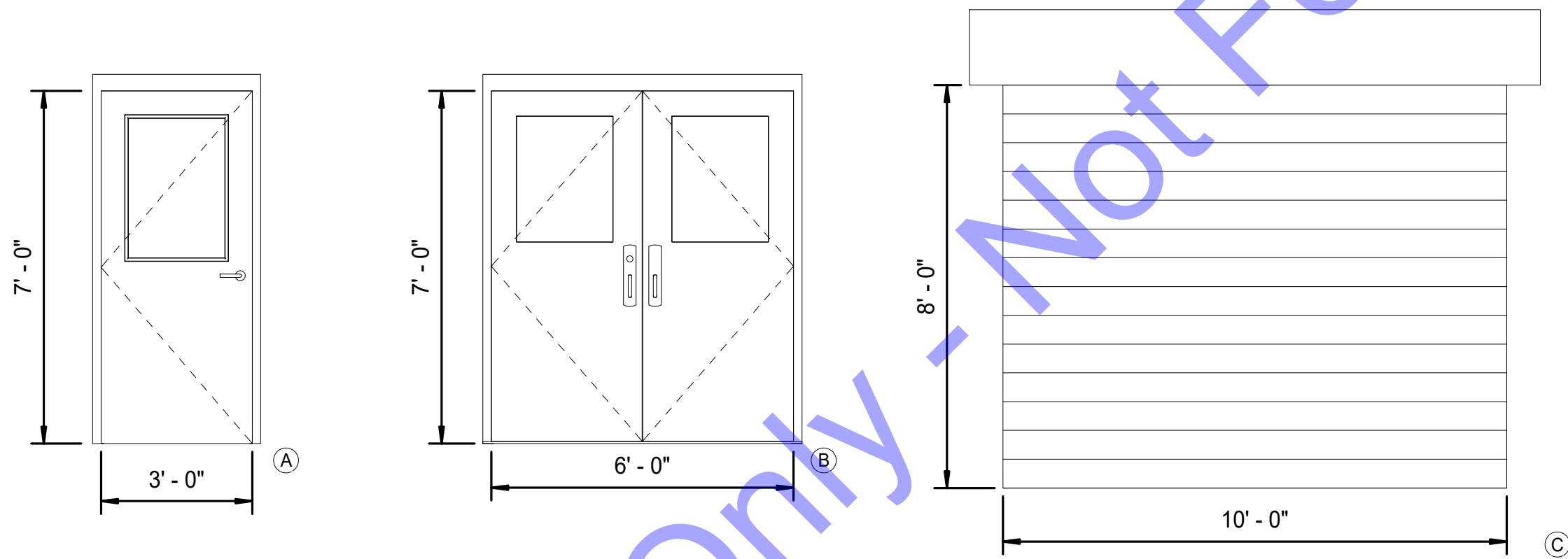
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JE	MJS	EP
Issue Date:	Project No:	Scale:
JAN. 2024	S20107	AS SHOWN

NEW CHEMICAL FEED AND ELECTRICAL BUILDING - PIPING SCHEMATICS

Drawing No:
D7-07
 Sheet: 90 OF 177

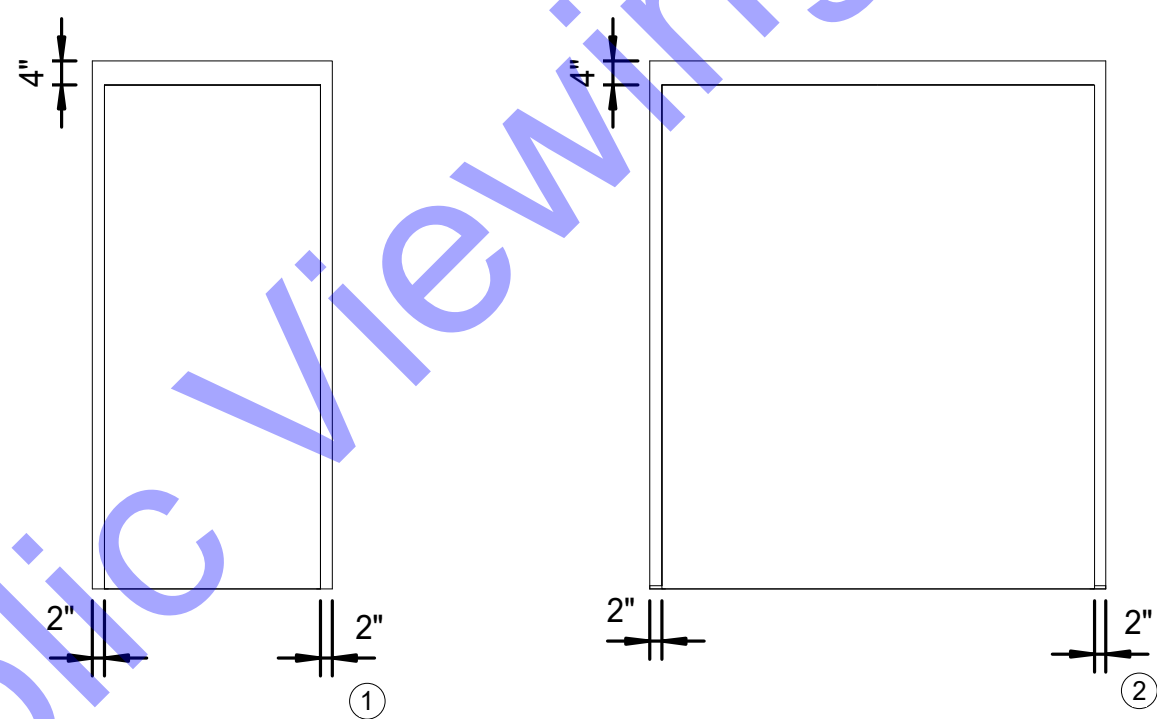
ROOM SCHEDULE					
ROOM NUMBER	ROOM NAME	FLOOR FINISH	WALL FINISH	CEILING FINISH	COMMENTS
101	ELECTRICAL ROOM	NON-SLIP COATED WITH SILICA SAND	PAINTED BLOCK	MOISTURE AND MOLD RESISTANT GYPSUM BOARD - PAINTED	1.5" BETWEEN WALL AND DROP CEILING
102	MAIN TREATMENT ROOM	NON-SLIP COATED WITH SILICA SAND	PAINTED BLOCK	OPEN TRUSS	1.5" BETWEEN WALL AND DROP CEILING

DOOR SCHEDULE															
DOOR NUMBER	QUANTITY	DOOR TYPE	ROUGH OPENING WIDTH	ROUGH OPENING HEIGHT	MATERIAL	DOOR WIDTH	DOOR HEIGHT	THICKNESS	WINDOW	FRAME NUMBER	FRAME MATERIAL	FRAME DEPTH	HEAD DETAIL	JAMB DETAIL	SILL DETAIL
101	1	B	6' - 4"	7' - 4"	FRP	6' - 0"	7' - 0"	0' - 2"	Yes	2	FRP	5 3/4"	3	2	4
102	1	A	3' - 4"	7' - 4"	FRP	3' - 0"	7' - 0"	0' - 2"	Yes	1	FRP	5 3/4"	3	2	4
103	1	C	10' - 0"	8' - 0"	FRP	10' - 0"	8' - 0"	0' - 3"	No	N/A	FRP	N/A	1	1	1



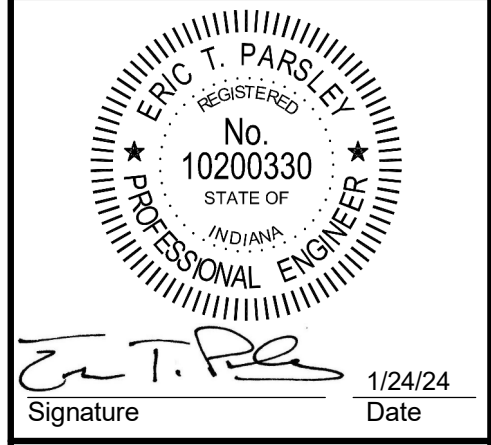
DOOR ELEVATIONS

SCALE: 3/8" = 1'-0"



DOOR FRAME ELEVATIONS

SCALE: 3/8" = 1'-0"



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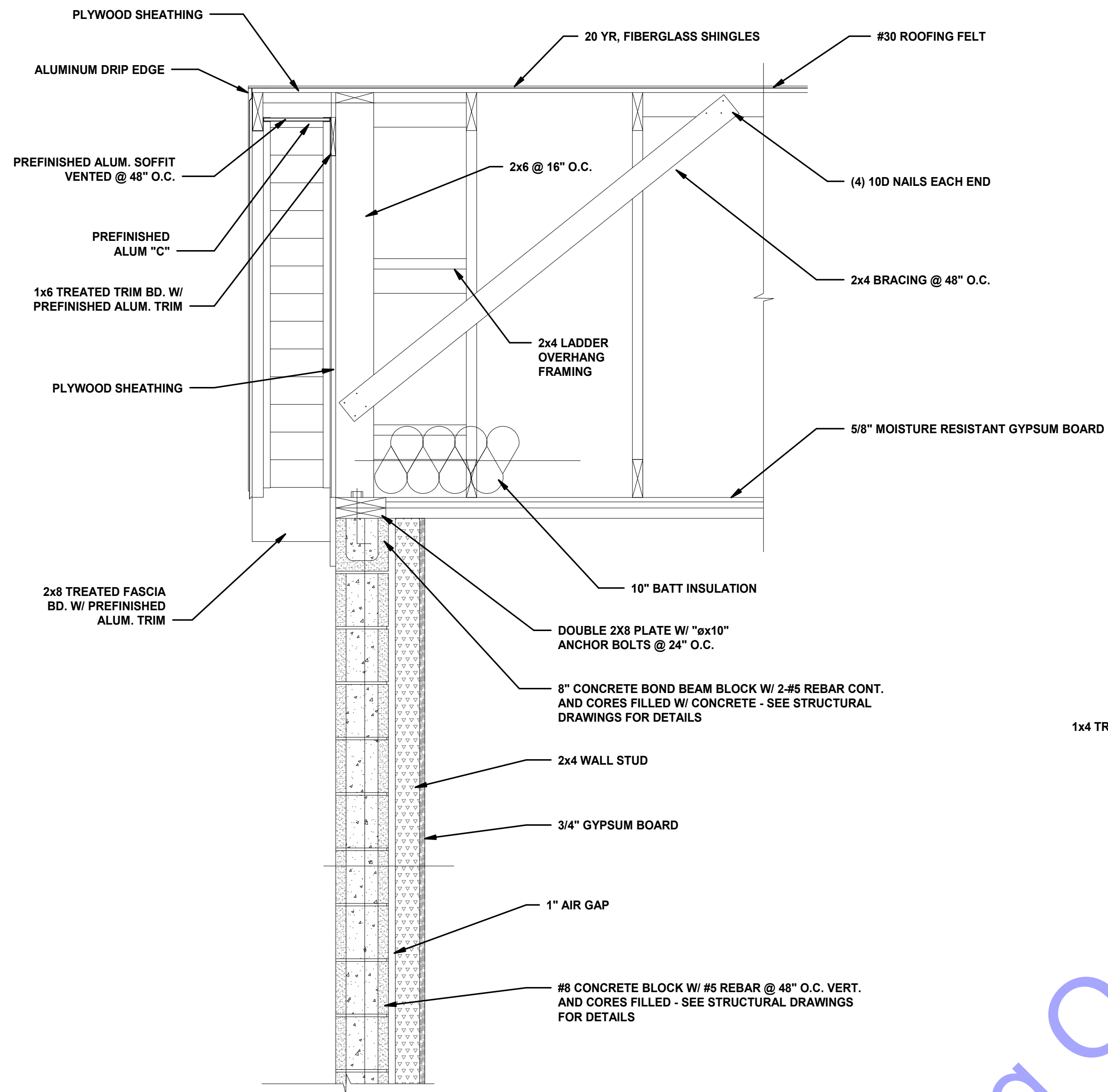
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NEW CHEMICAL FEED AND ELECTRICAL BUILDING - SCHEDULES

Drawing No:
D7-08
Sheet: 91 OF 177

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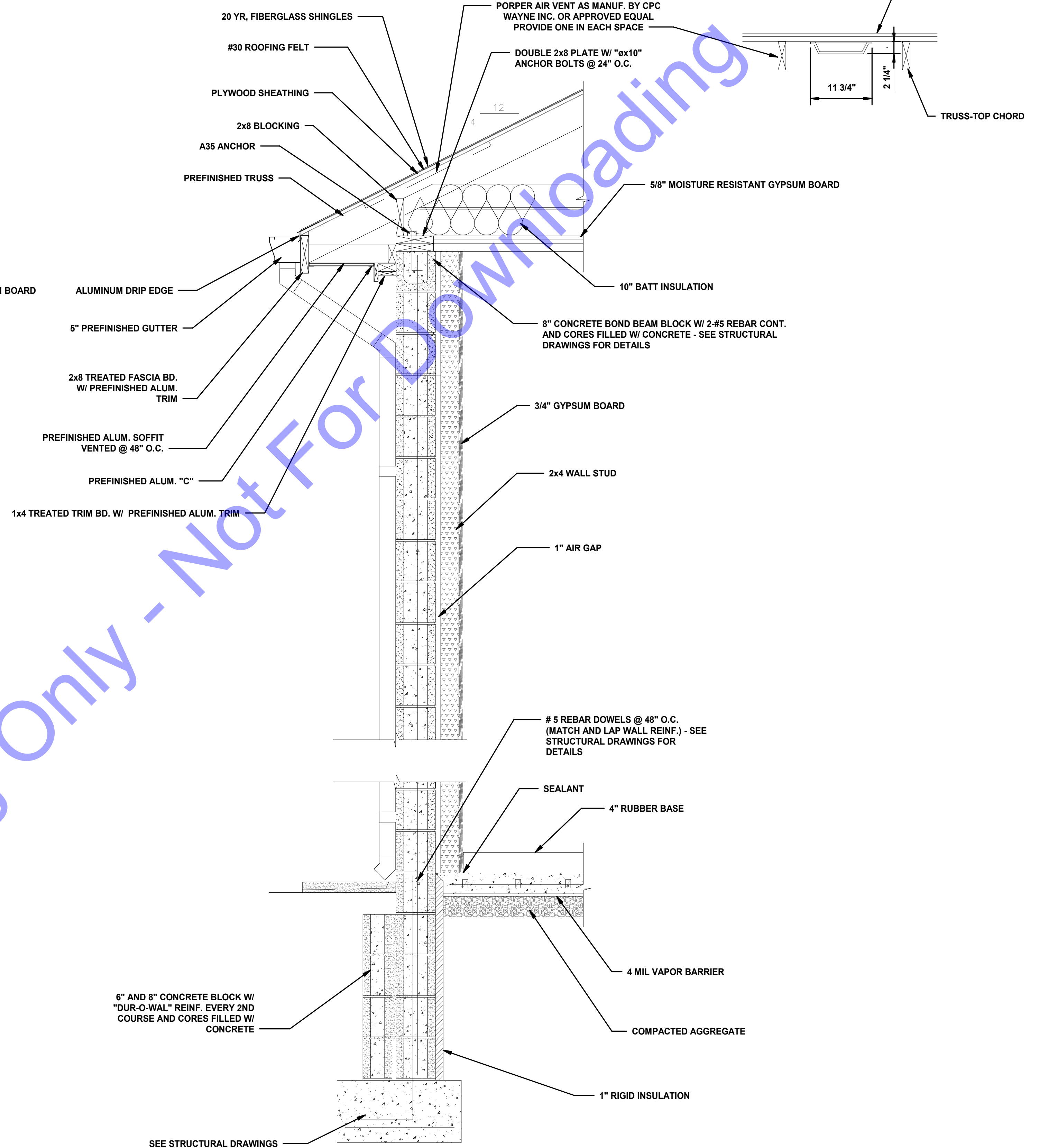


TYPICAL WALL SECTION - EXTERIOR

SCALE: NOT TO SCALE

1

D7-02



TYPICAL WALL SECTION - EXTERIOR

SCALE: NOT TO SCALE

2

D7-02

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ERIC T. PARS, PE
 No. 10200330
 STATE OF INDIANA
 PROFESSIONAL ENGINEER

 Signature: 1/24/24 Date

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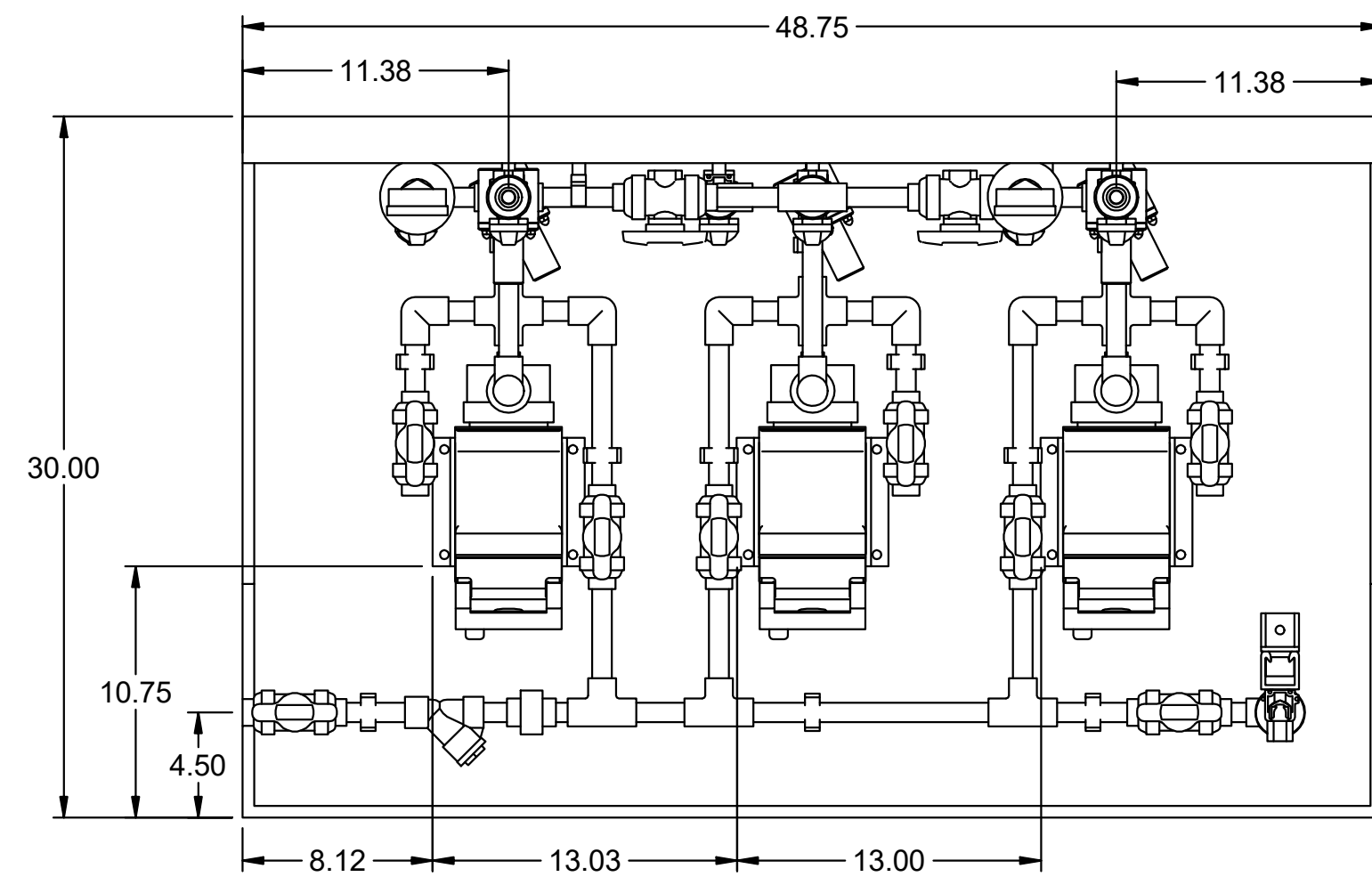
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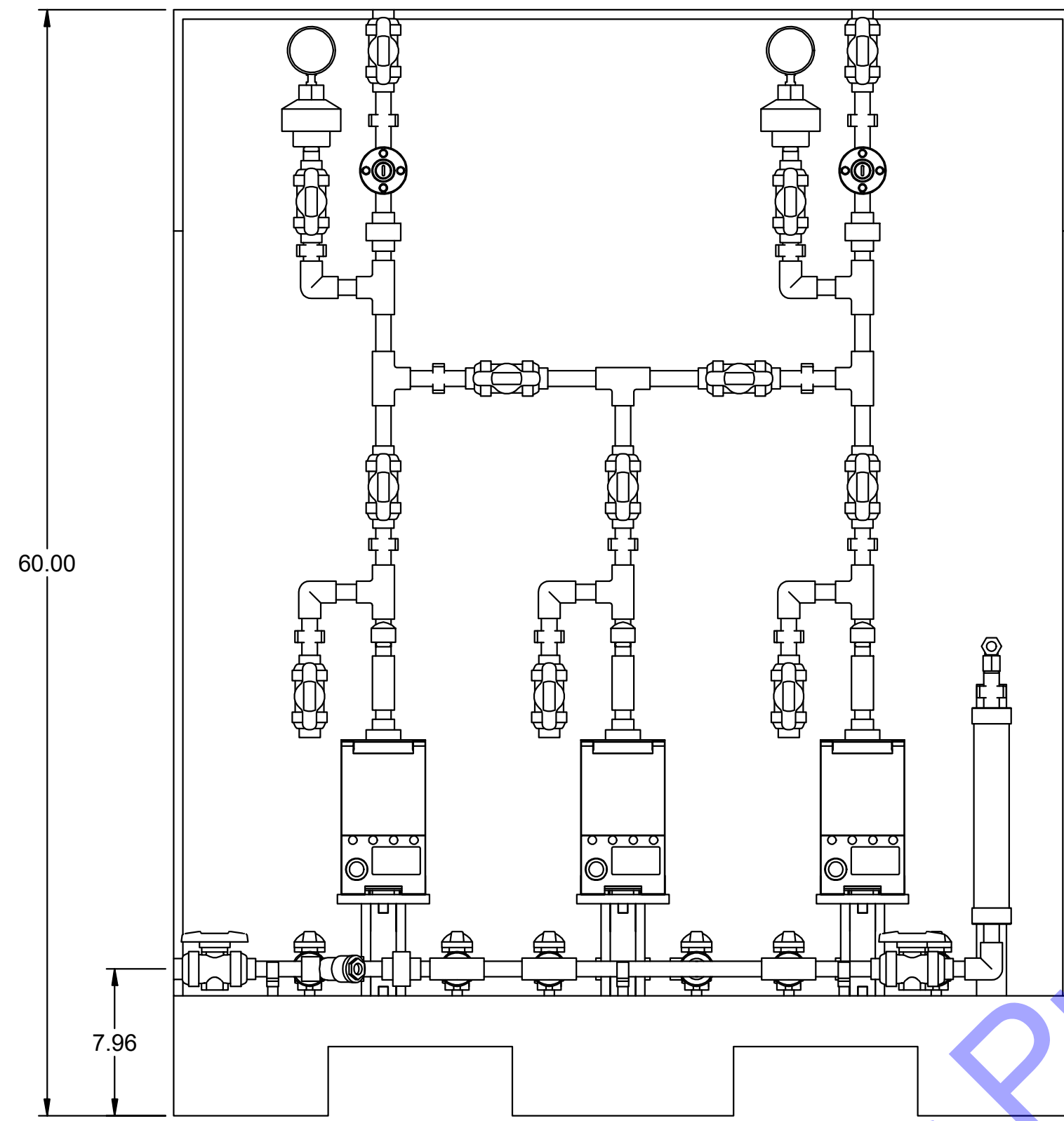
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NEW CHEMICAL FEED AND ELECTRICAL BUILDING -ARCHITECTURAL DETAILS

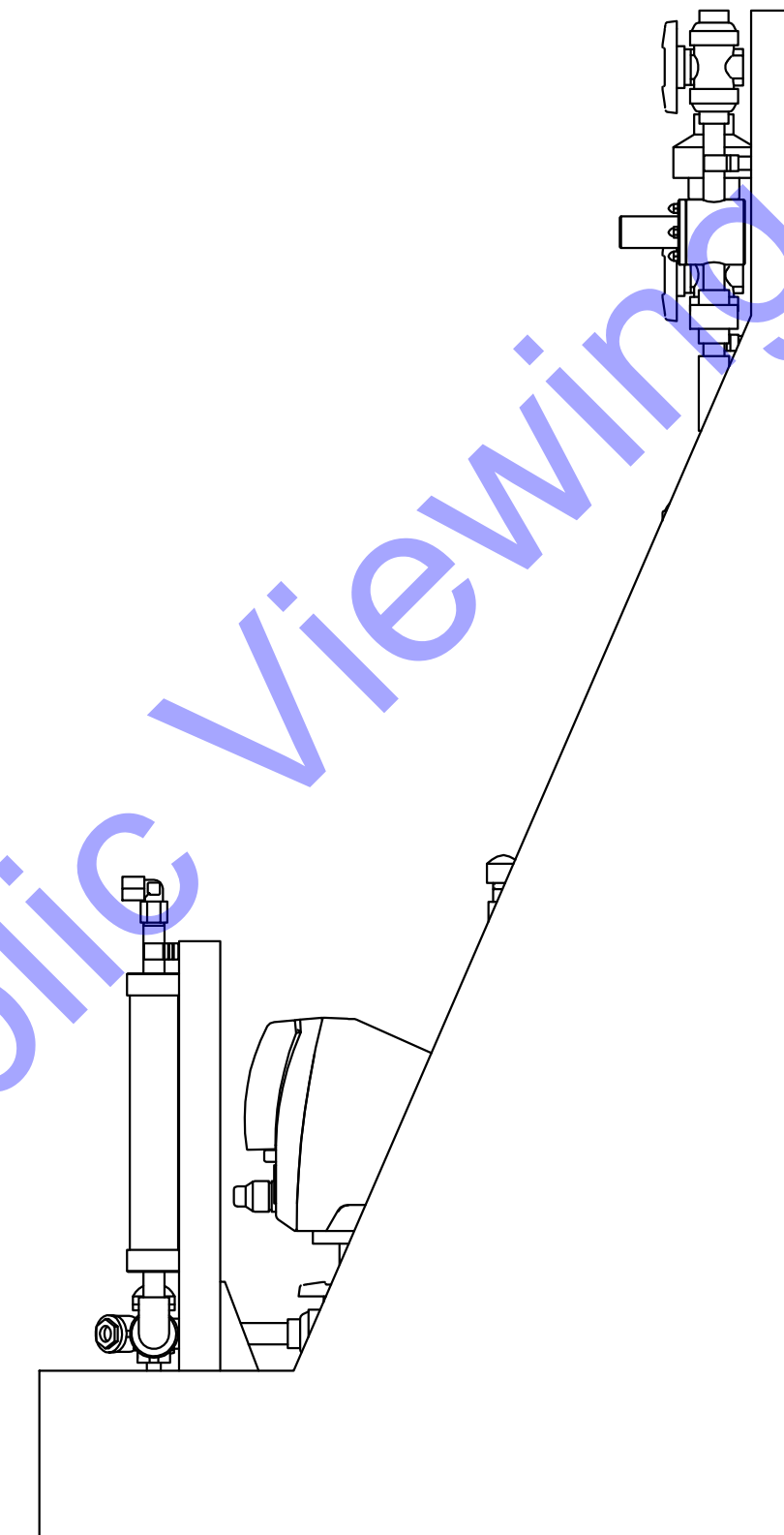
Drawing No:
D7-09
 Sheet: 92 OF 177



PLAN VIEW

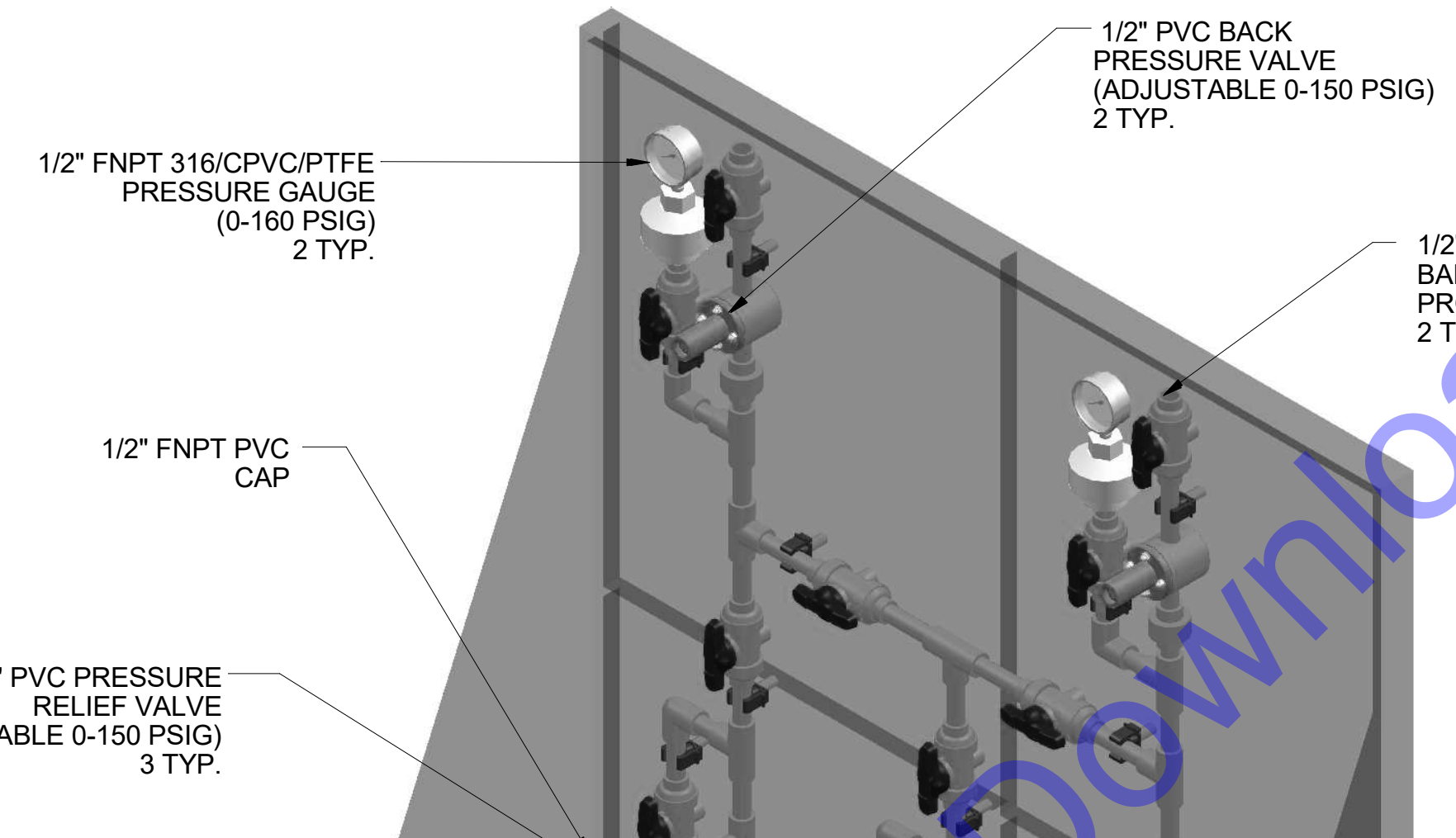


FRONT VIEW

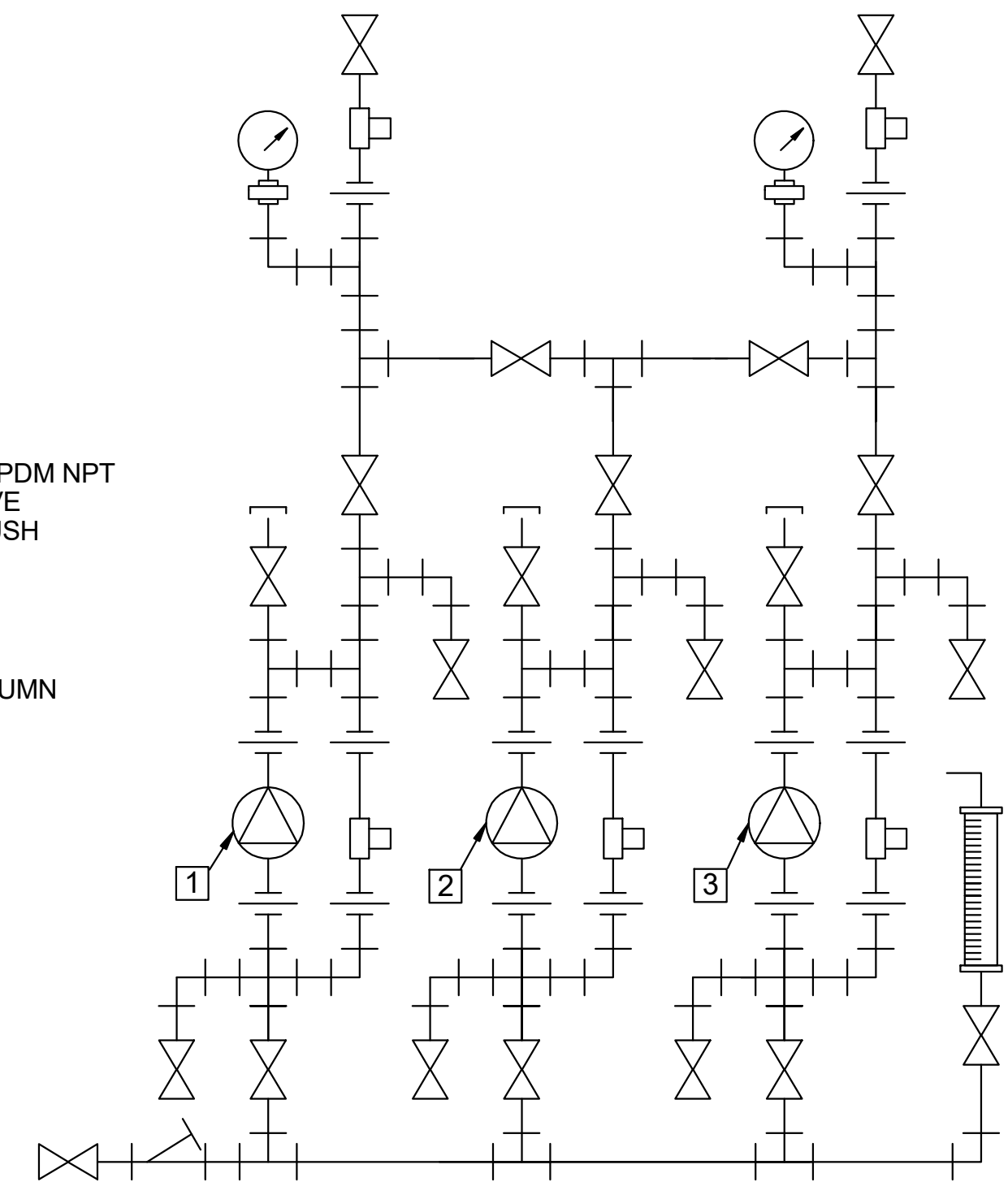


SIDE VIEW

GAMMA X SERIES METERING PUMP
GMXA0708PVT2Q000UDC1300EN0
MAX. CAPACITY: 2.0 GPH @ 102 PSIG
3 TYP.



ISOMETRIC VIEW



PIPING SCHEMATIC

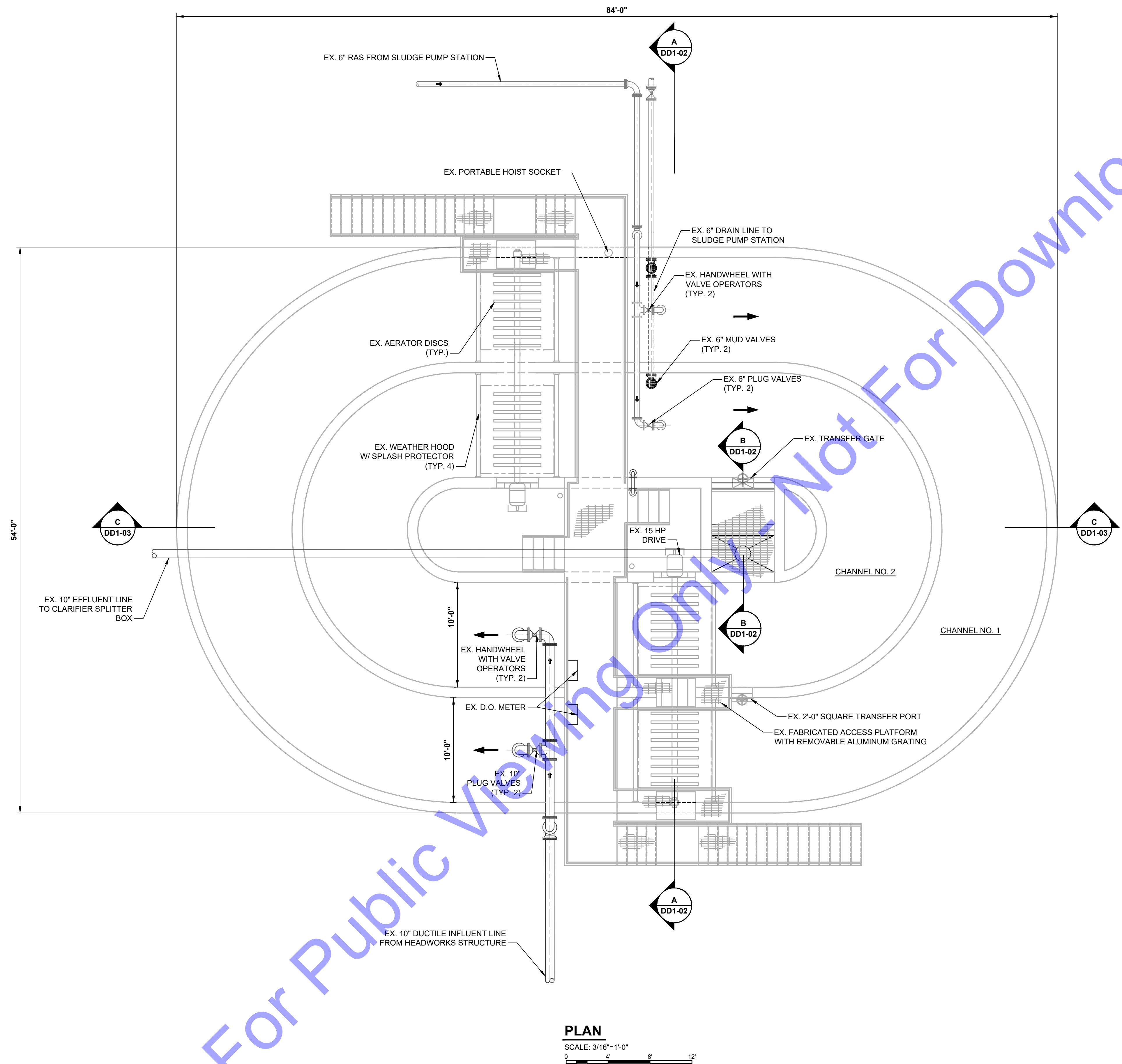
NOTES:

- 1. ALL PIPING AND FITTINGS SHALL BE 1/2" SCH. 80 PVC SOCKET WELD WITH EPDM SEALS UNLESS OTHERWISE REQUIRED BY COMPONENTS.
- 2. ALL DIMENSIONS ARE IN INCHES AND ARE SHOWN FOR REFERENCE ONLY.
- 3. QTY OF (3) CONTROL CABLES REQUIRED WITH SKID, P/N 1001301.

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PLAN
SCALE: 3/16"=1'-0"
0 4 8 12



NORTHEAST VIEW



WEST VIEW



EAST VIEW

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Professional Engineer Seal:
ERIC T. PARSLEY, REGISTERED ENGINEER
No. 102003330
STATE OF INDIANA
Professional Engineer
Signature: *E.T. Parsley* Date: 01/24/24

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Drawn By: DAN
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Project No: S20107
Scale: AS SHOWN

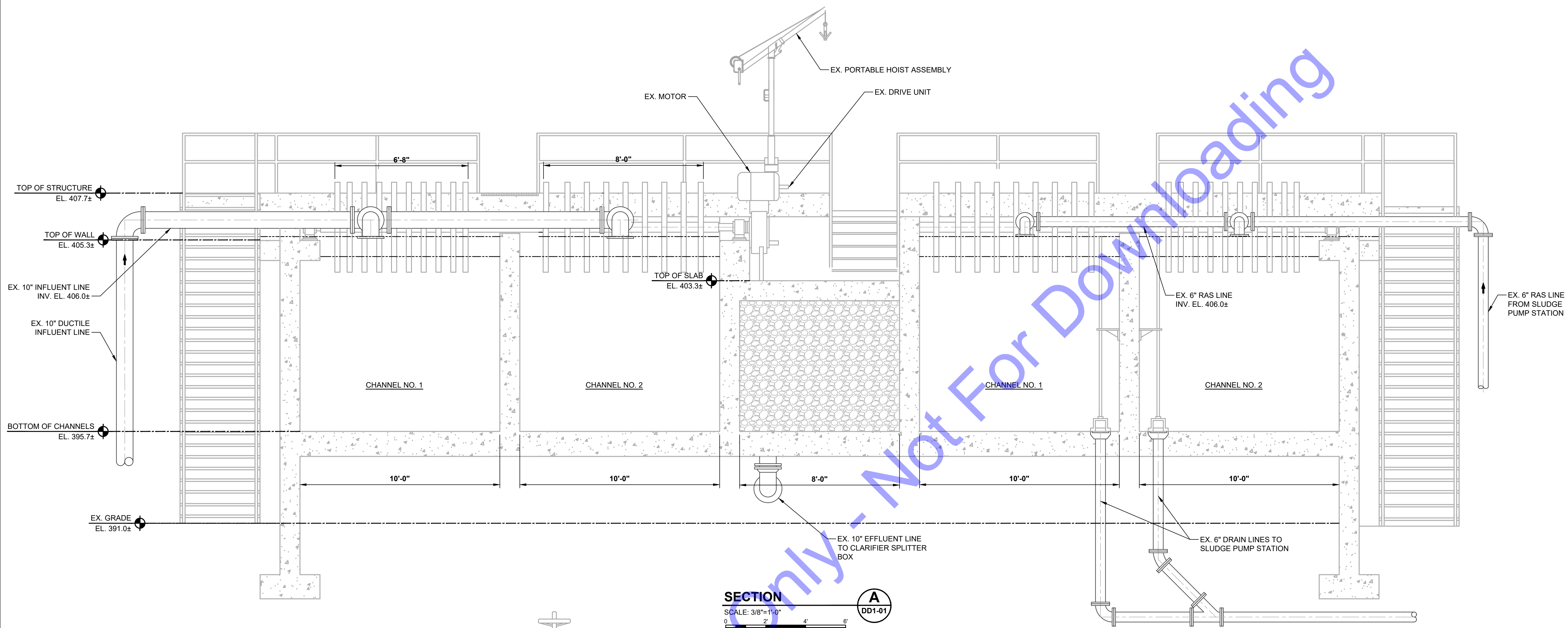
EXISTING OXIDATION DITCH - DEMOLITION PLAN VIEW

Drawing No:
DD1-01

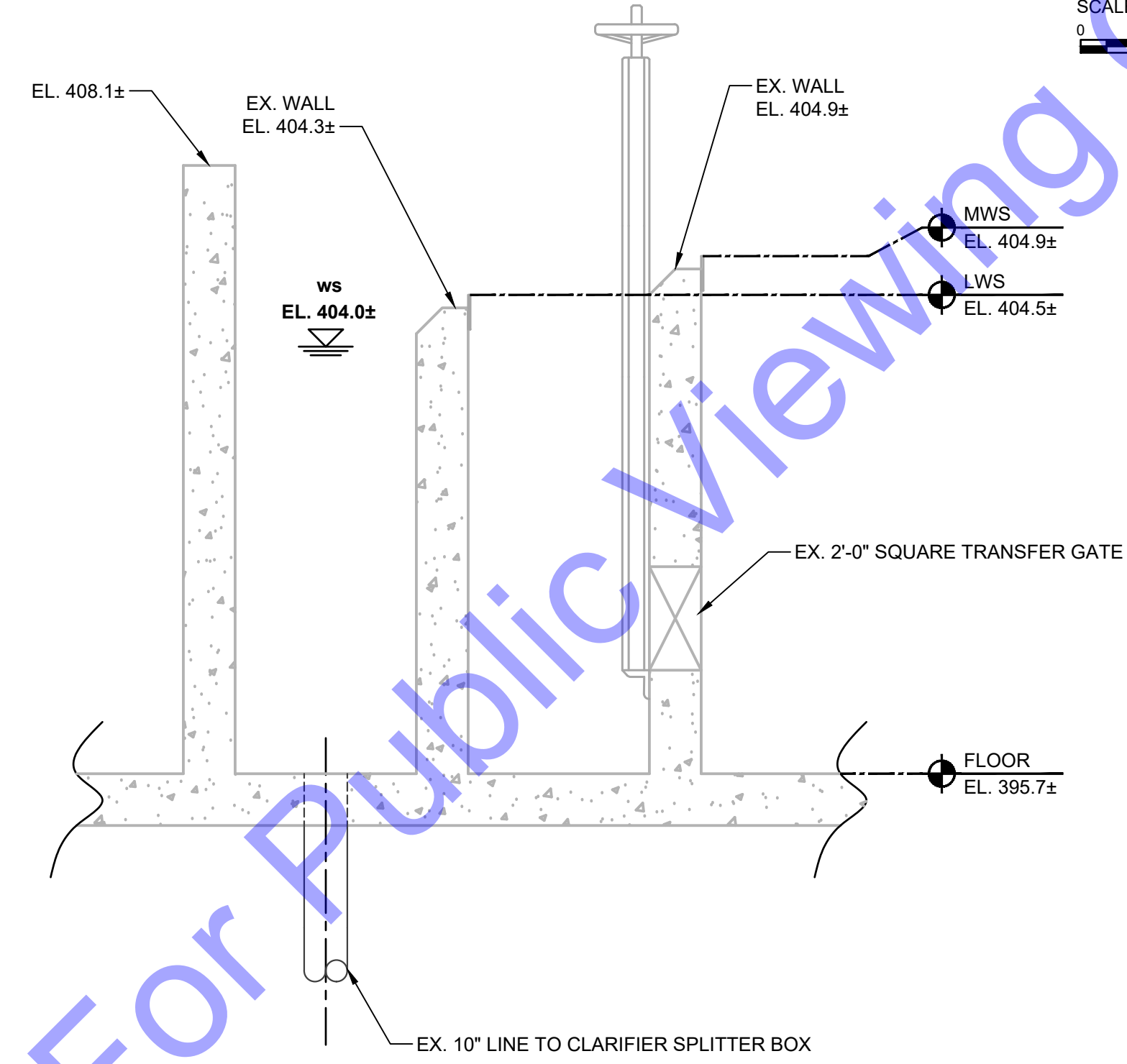
- DEMOLITION NOTES:**
- EXISTING INFORMATION OBTAINED FROM 2000 "NORTH WASTEWATER TREATMENT PLANT AND COLLECTION SYSTEM IMPROVEMENTS" AS-BUILT, SITE SURVEY AND FIELD INVESTIGATIVE WORK PERFORMED BY CEI.
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SECTION A
 SCALE: 3/8"=1'-0"
 DD1-01



SECTION B
 SCALE: 3/8"=1'-0"
 DD1-01

- DEMOLITION NOTES:**
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REGISTERED PROFESSIONAL ENGINEER
 No. 10200330
 STATE OF INDIANA
 Signature: *E. T. Parsi* Date: 01/24/24

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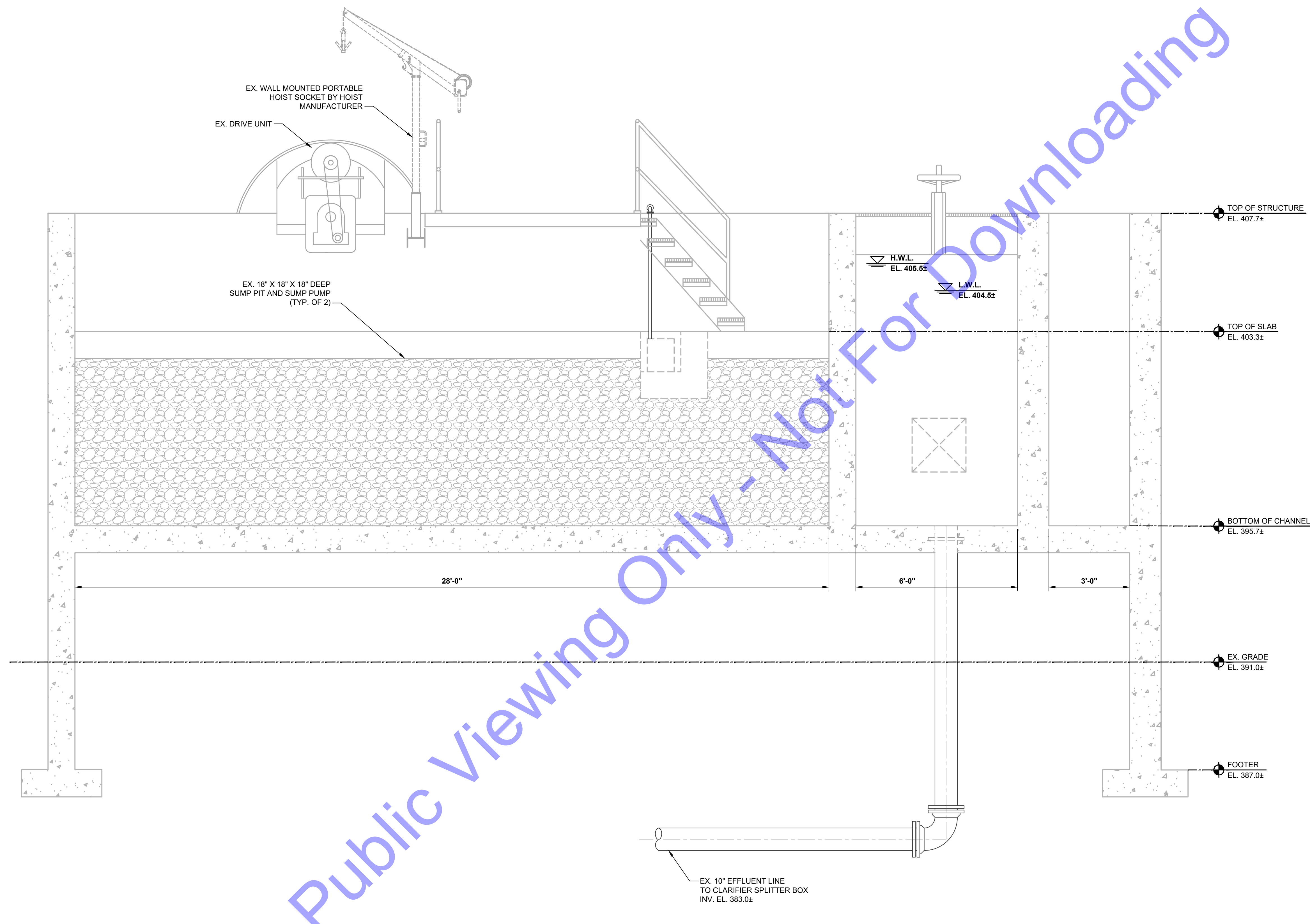
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EXISTING OXIDATION DITCH - DEMOLITION SECTION VIEWS

Drawing No:
DD1-02
 Sheet: 95 OF 177

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SECTION
 SCALE: 1/2"=1'-0"
 0 1' 2' 4'
C
 DD1-01

- DEMOLITION NOTES:**
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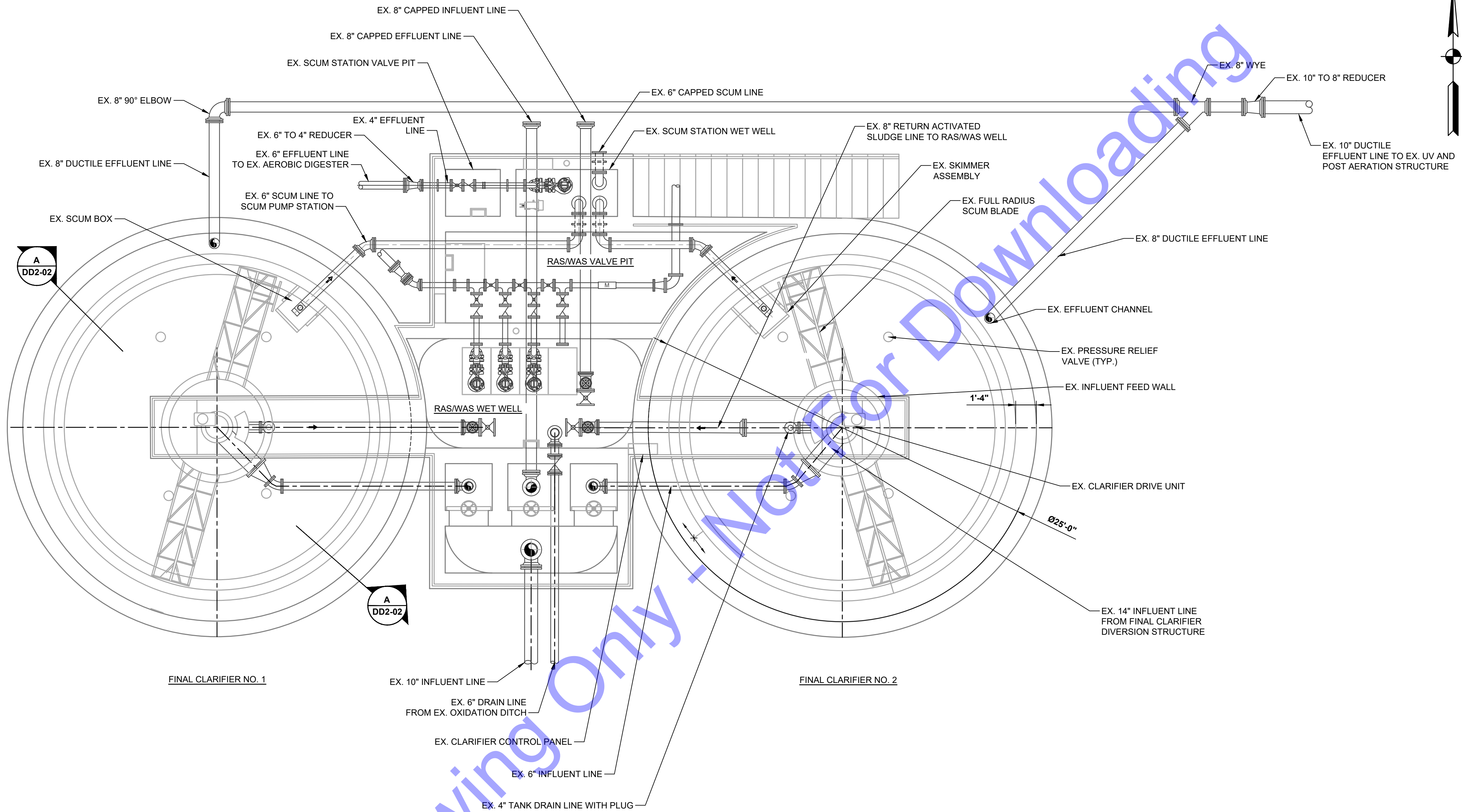
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EXISTING OXIDATION DITCH - DEMOLITION SECTION VIEWS

Drawing No:
DD1-03
 Sheet: 96 OF 177

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PLAN
 SCALE: 1/4"=1'-0"
 0 2' 4' 8'



NORTH VIEW



SOUTHEAST VIEW



EAST VIEW

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Professional Engineer Seal for Eric T. Parsley, No. 102003330, State of Indiana.
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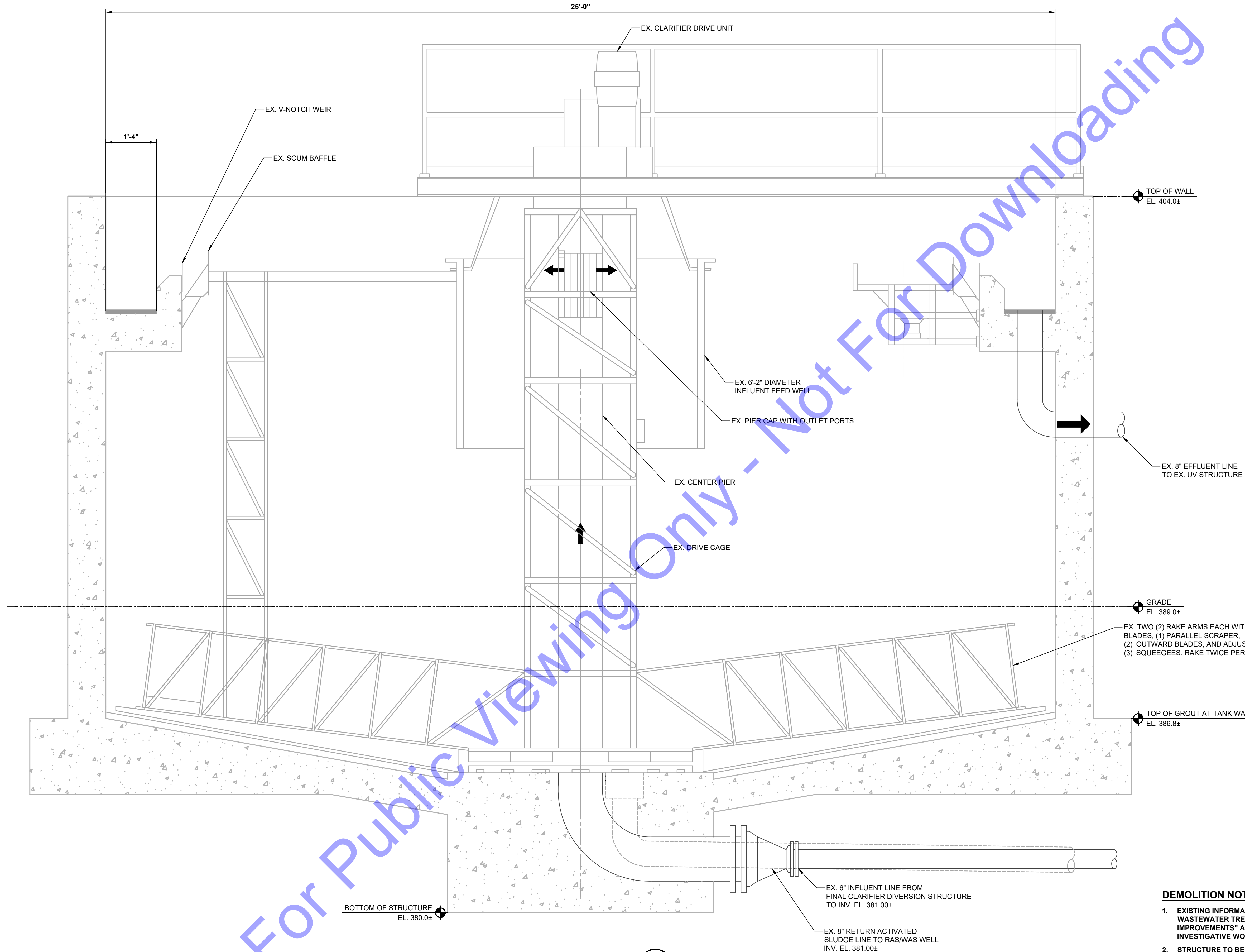
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Issue Date: JAN. 2024
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EXISTING FINAL CLARIFIER TANKS - DEMOLITION PLAN VIEW

Drawing No: **DD2-01**
 Sheet: 97 OF 177



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SECTION
SCALE: 3/4"=1'-0"
0 1 2 3

A
DD2-01

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Professional Engineer Seal: ERIC T. PARS ET AL., No. 102003330, STATE OF INDIANA, PROFESSIONAL ENGINEER
Signature: *[Signature]* Date: 01/24/24

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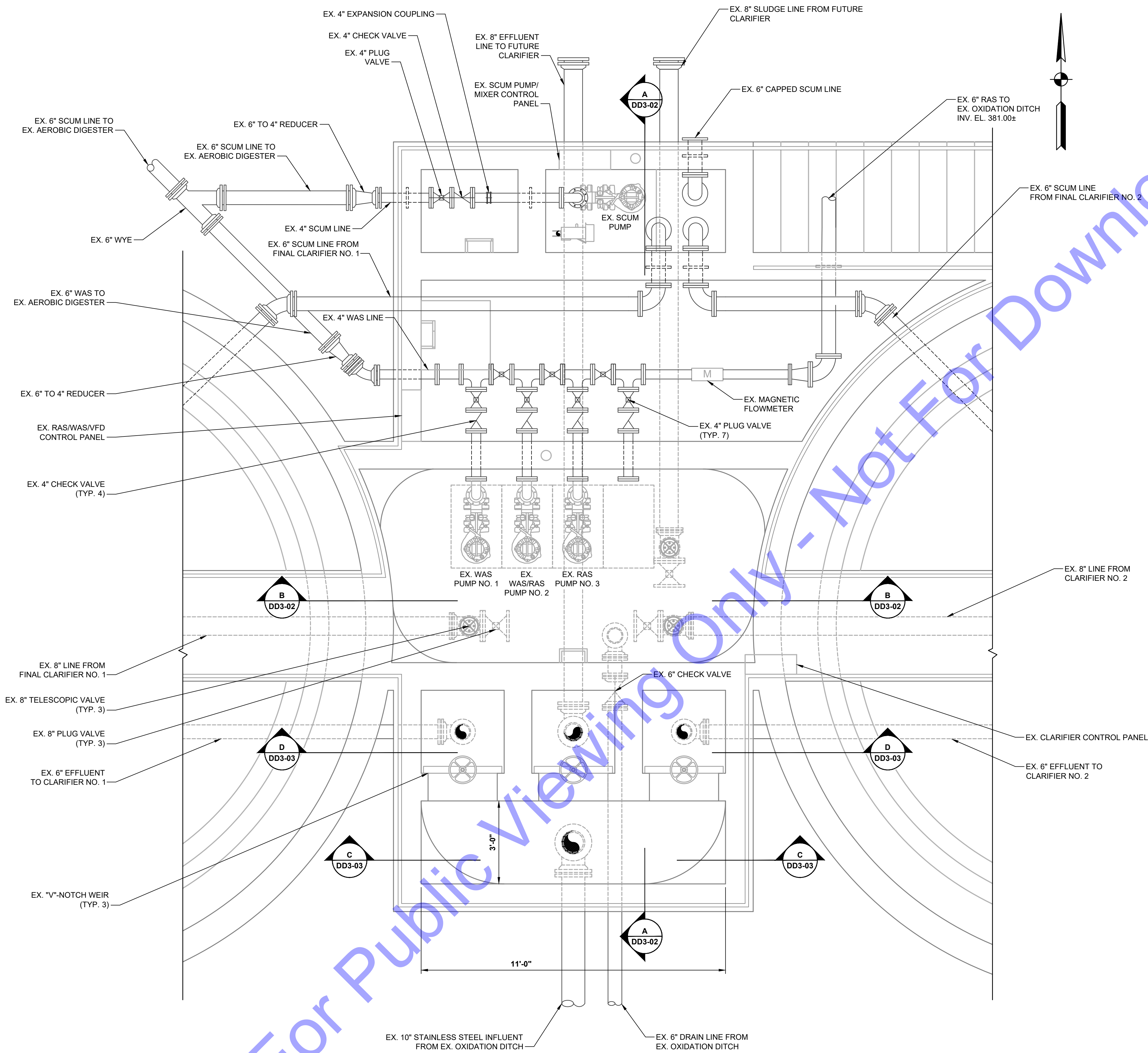
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EXISTING FINAL CLARIFIER TANKS - DEMOLITION SECTION VIEW

Drawing No: **DD2-02**
Sheet: 98 OF 177

File: Z:\SHARED\CLIENTS\ROCKPORT\DD3\107 WASTE WATER LTCP PHASE 4B - WWTPL4-EX-FLOW SPLITTER BOX.DWG
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PLAN
 SCALE: 1/2"=1'-0"
 0 1' 2' 4'



STRUCTURE NORTH VIEW



NORTH VIEW



WEST VIEW

DEMOLITION NOTES:

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 No. 10200330
 STATE OF INDIANA
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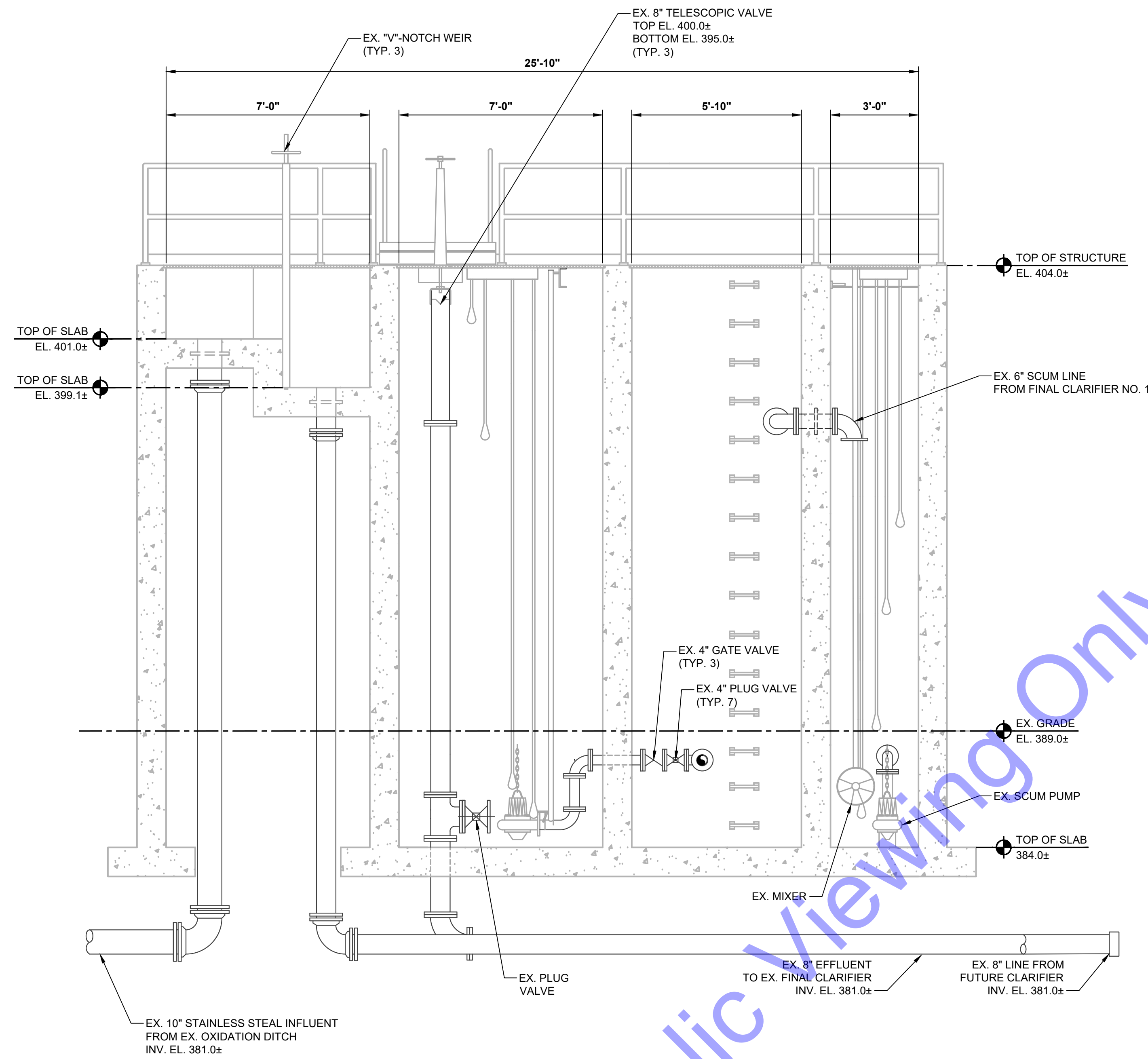
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Designed By: JE	Drawn By: DAN	Checked By: EP
Issue Date: JAN. 2024	Project No: S20107	Scale: AS SHOWN

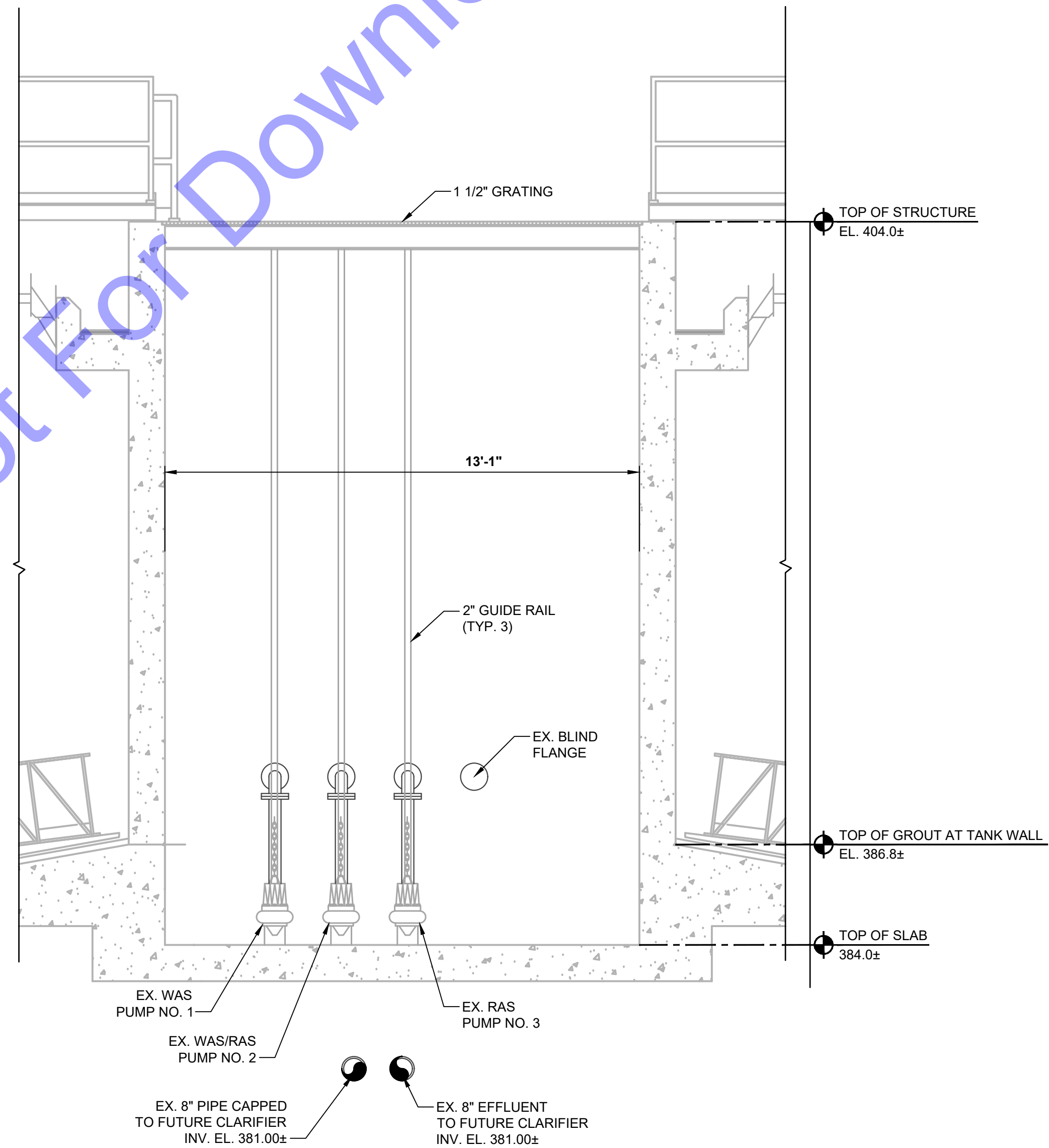
EXISTING FLOW SPLITTER STRUCTURE - DEMOLITION PLAN VIEW

Drawing No:
DD3-01
 Sheet: 99 OF 177

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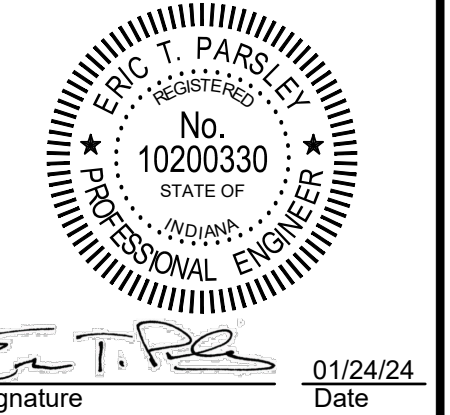
SECTION A
 SCALE: 3/8"=1'-0"
 DD3-01



SECTION B
 SCALE: 3/8"=1'-0"
 DD3-01

DEMOLITION NOTES:

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CITY OF ROCKPORT, INDIANA
WASTEWATER LTCP PHASE 4 PROJECT
DIVISION "A" - WWTP

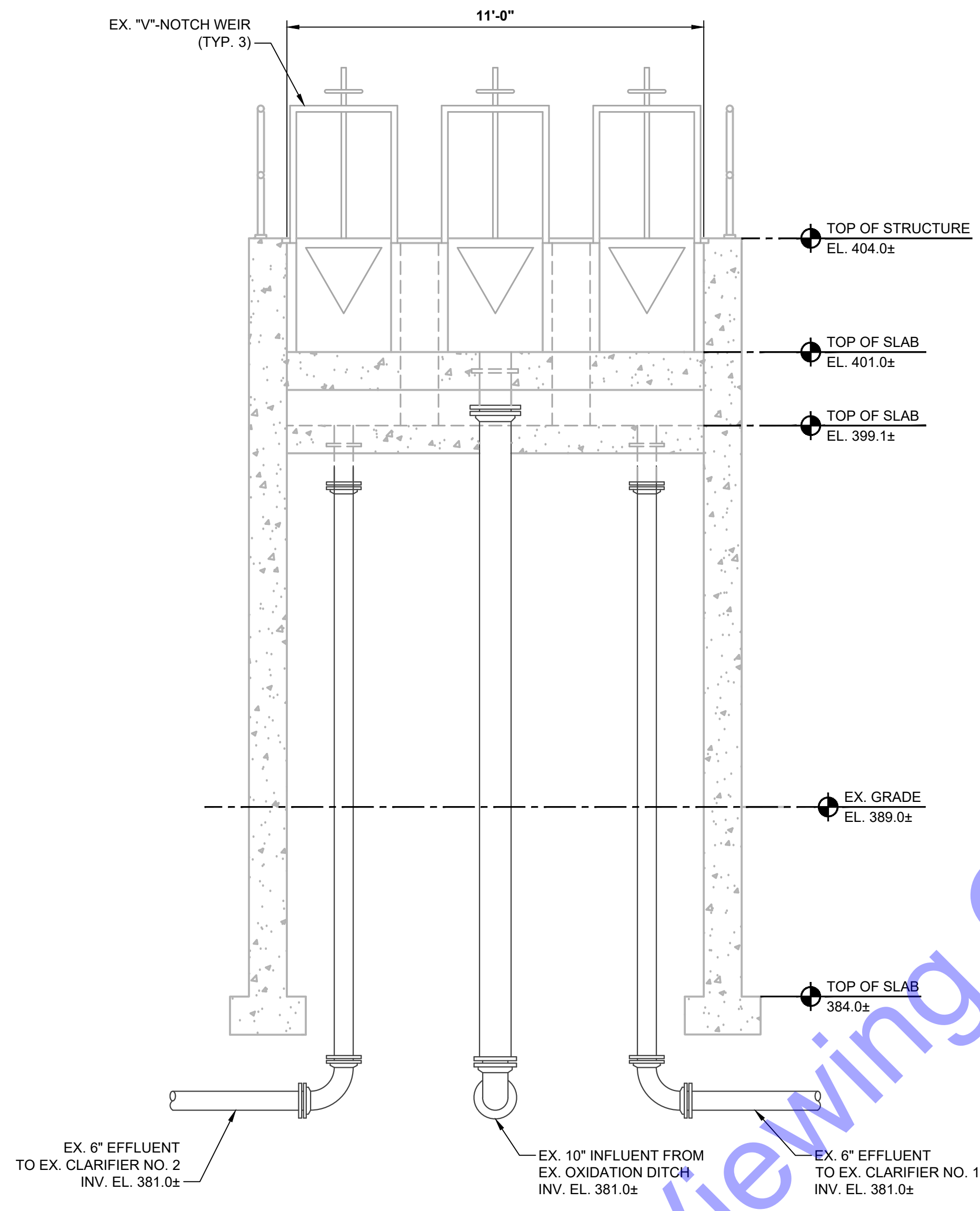


No.	Submittal / Revision	Date	By

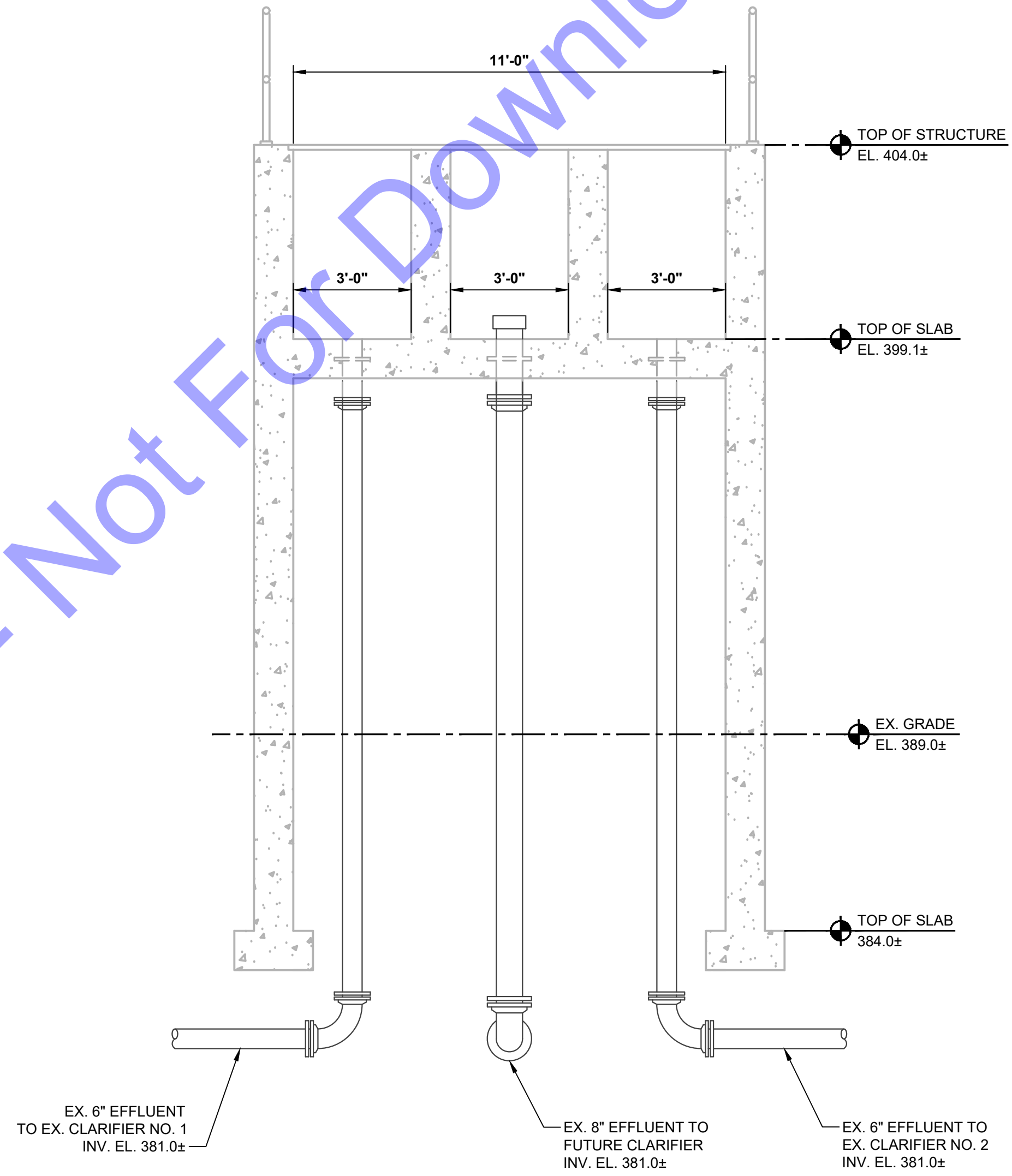
Designed By: JE	Drawn By: DAN	Checked By: EP
Issue Date: JAN. 2024	Project No: S20107	Scale: AS SHOWN

EXISTING FLOW SPLITTER STRUCTURE - DEMOLITION SECTION VIEWS

Drawing No:
DD3-02
 Sheet: 100 OF 177



SECTION C
 SCALE: 3/8"=1'-0"
 DD3-01



SECTION D
 SCALE: 3/8"=1'-0"
 DD3-01

DEMOLITION NOTES:

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Professional Engineer Seal:
 ERIC T. PARSLEY
 No. 102003330
 STATE OF INDIANA
 PROFESSIONAL ENGINEER
 Signature: *E.T. Parsley*
 Date: 01/24/24

**CITY OF ROCKPORT
 SPENCER COUNTY, INDIANA
 WASTEWATER LTCP PHASE 4
 PROJECT
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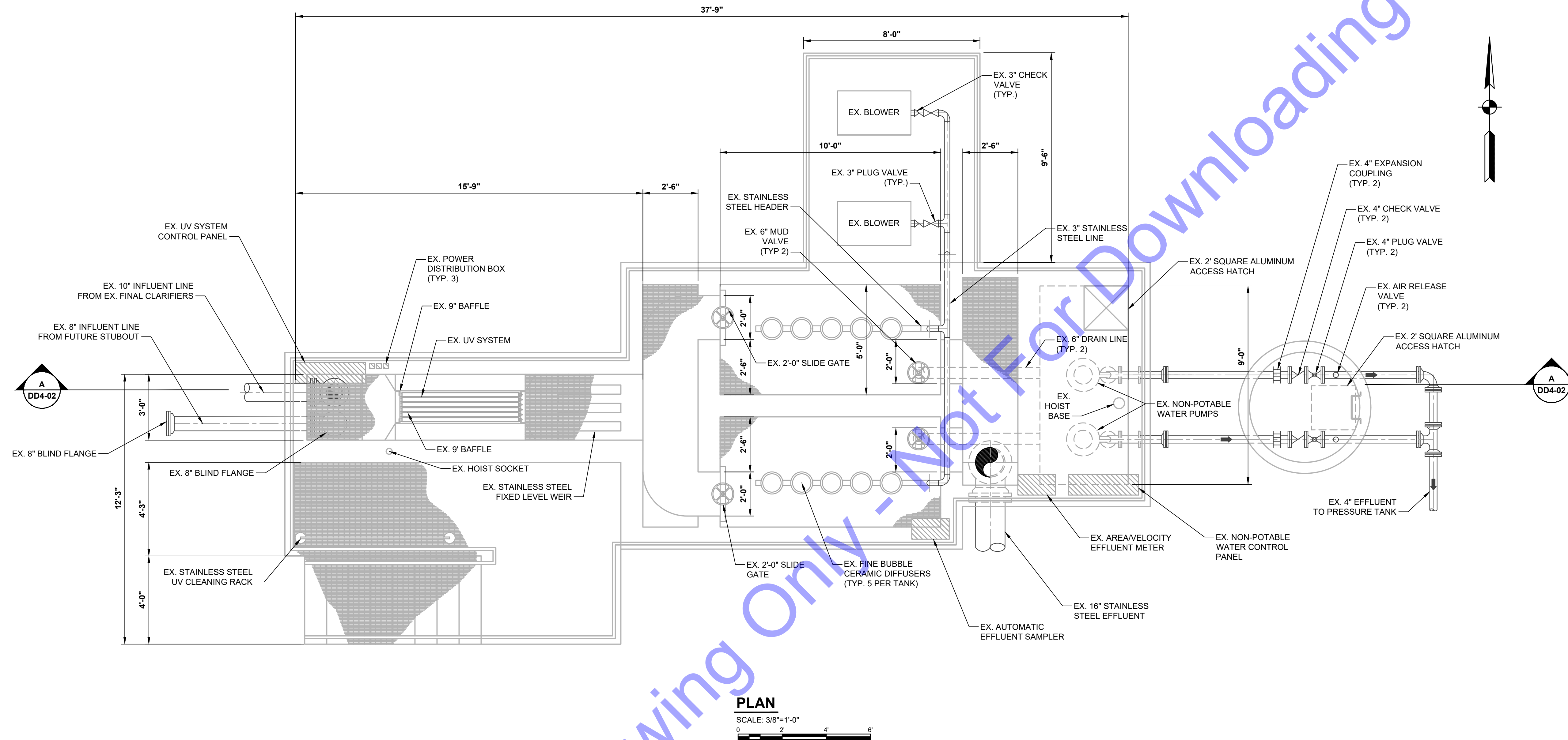
Date	By	No.	Submittal / Revision

Designed By: JE	Drawn By: DAN	Checked By: EP
Issue Date: JAN. 2024	Project No: S20107	Scale: AS SHOWN

EXISTING FLOW SPLITTER STRUCTURE - DEMOLITION SECTION VIEWS

Drawing No:
DD3-03

FILE: Z:\SHARED\CLIENTS\N2\ROCKPORT\03107 WASTEWATER LTCP PHASE 4 - WWTPT\5-EX UV AND POST AERATION STRUCTURE.DWG
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PLAN
 SCALE: 3/8"=1'-0"
 0 2 4 6



NORTHWEST VIEW



SOUTHWEST VIEW

DEMOLITION NOTES:

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Professional Engineer Seal for Eric T. Parsley, No. 10200330, State of Indiana.
 Signature: [Signature] Date: 01/24/24

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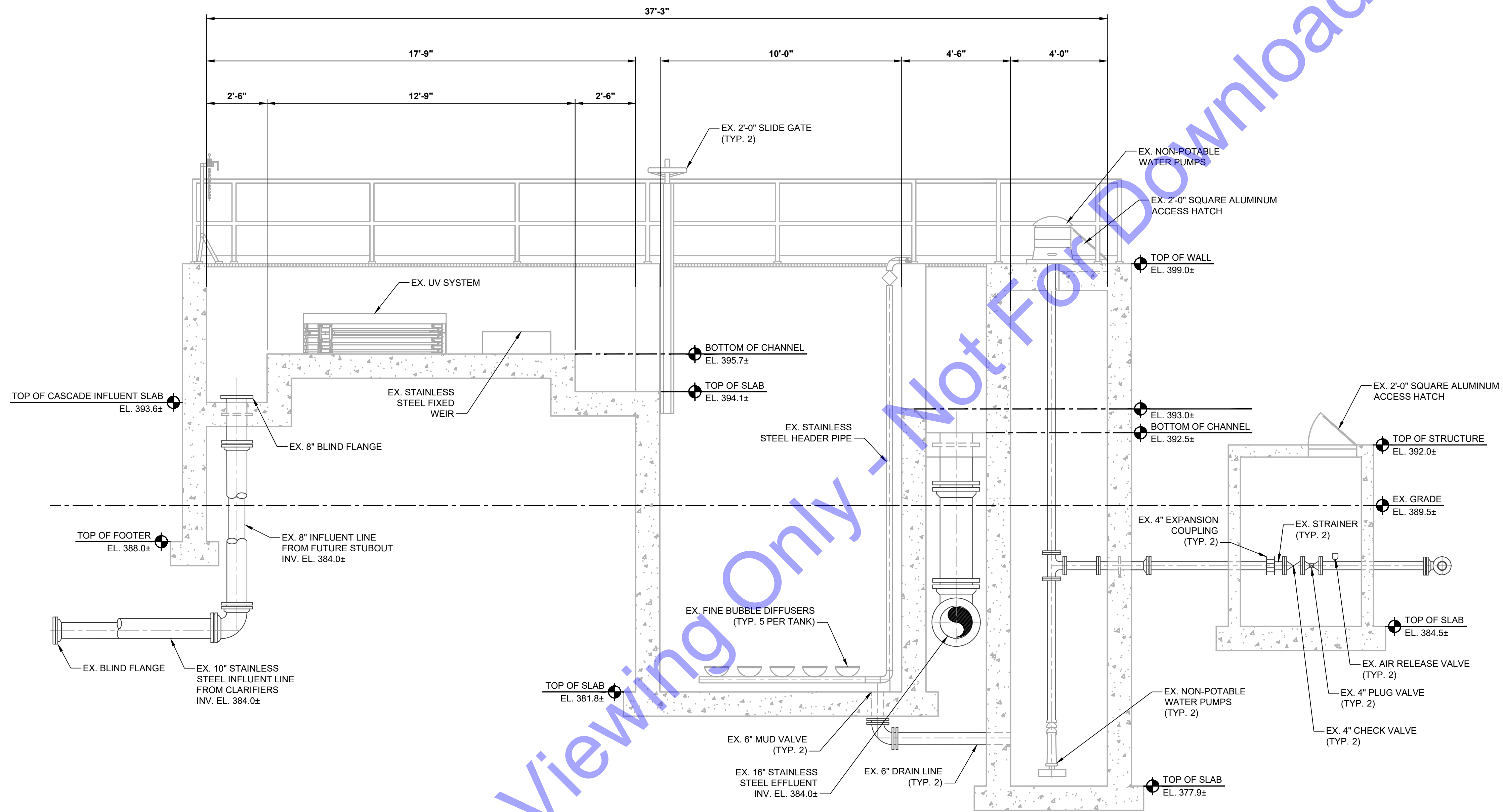
Date	
By	
No.	
Submittal/Revision	

Designed By:	Drawn By:	Checked By:
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Issue Date:	Project No:	Scale:
JAN. 2024	S20107	AS SHOWN

EXISTING UV AND POST AERATION STRUCTURE - DEMO PLAN VIEW

Drawing No:
DD4-01
 Sheet: 102 OF 177

File: Z:\GIS\DESIGN\CLIENTS\NORTH ROCKPORT\DD4-01\WASTEWATER LTCP PHASE 4\DWG\CURRENT FILES\DRAWINGS\DIVISION A - WWTP\SEK_UV AND POST AERATION STRUCTURE.DWG
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SECTION
 SCALE: 3/8"=1'-0"
 0 2 4 6
A
 DD4-01

DEMOLITION NOTES:

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REGISTERED PROFESSIONAL ENGINEER
 No. 10200330
 STATE OF INDIANA
 Signature: *E.T. Parsi*
 Date: 01/24/24

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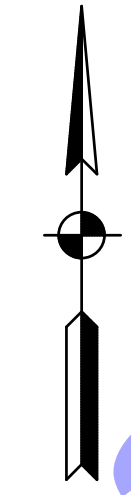
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EXISTING UV AND POST AERATION STRUCTURE - DEMO SECTION VIEW



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SITE PLAN
 SCALE: 1"=30'-0"
 0 30' 60'

EXISTING BUILDING LEGEND		
IDENTIFIER	DESCRIPTION	DEMO NOTES
A	EXISTING HEADWORKS	TO BE ABANDONED
B	EXISTING PRIMARY CLARIFIER	TO BE ABANDONED
C	EXISTING AERATION TANKS	TO BE ABANDONED
D	EXISTING CHLORINE CONTACT TANK	TO BE ABANDONED
E	EXISTING SLUDGE BUILDING	TO BE ABANDONED
F	EXISTING SCUM PUMP STATION	TO BE ABANDONED
G	EXISTING SLUDGE PUMP STATION	TO BE ABANDONED

LEGEND:
 INDICATES PHOTO NUMBER AND DIRECTION OF PHOTO (PHOTOS TAKEN BY COMMONWEALTH ENGINEERS, INC. - DECEMBER, 2020)

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Professional Engineer Seal: ERIC T. PARSLEY, No. 102003330, STATE OF INDIANA, PROFESSIONAL ENGINEER.

Eric T. Parsley
 Signature
 01/24/24
 Date

**CITY OF ROCKPORT
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**EXISTING SOUTH
 WWTP OVERALL SITE
 PLAN AND PHOTO LOG
 INDEX**



PHOTO #1



PHOTO #2



PHOTO #3



PHOTO #4



PHOTO #5



PHOTO #6



PHOTO #7



PHOTO #8



PHOTO #9



PHOTO #10



PHOTO #11



PHOTO #12



PHOTO #13



PHOTO #14



PHOTO #15



PHOTO #16

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Professional Engineer Seal:
 ERIC T. PARSLEY
 Registered Professional Engineer
 No. 102003330
 STATE OF INDIANA
 Signature: *Eric T. Parsley* Date: 01/24/24

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EXISTING SOUTH
 WWTP PHOTO LOG

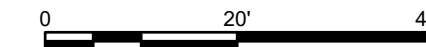
Drawing No:
DD5-02
 Sheet: 105 OF 177

NOTE:
 PHOTOS TAKEN BY COMMONWEALTH ENGINEERS, INC. IN DECEMBER 2020



SITE PLAN

SCALE: 1"=20'-0"



EXISTING BUILDING LEGEND		
IDENTIFIER	DESCRIPTION	DEMO NOTES
A	EXISTING HEADWORKS	AS M.A.'S
B	EXISTING PRIMARY CLARIFIER	AS M.A.'S
C	EXISTING AERATION TANKS	AS M.A.'S
D	EXISTING CHLORINE CONTACT TANK	AS M.A.'S
E	EXISTING SLUDGE BUILDING	AS M.A.'S
F	EXISTING SCUM PUMP STATION	AS M.A.'S
G	EXISTING SLUDGE PUMP STATION	AS M.A.'S

GENERAL DEMOLITION NOTES:

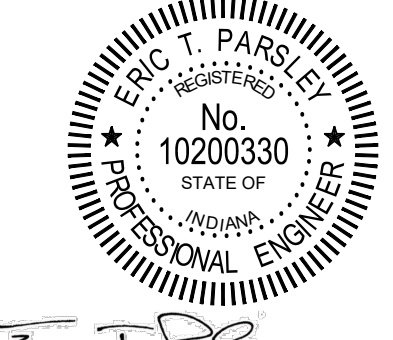
- UNLESS OTHERWISE NOTED, CONTRACTOR SHALL PLUG, SEAL WATERTIGHT, AND ABANDON IN PLACE ALL EXISTING SITE PIPING AT ALL STRUCTURES THAT ARE SHOWN TO BE DEMOLISHED AND REMOVED ONCE NEW PLANT IS OPERATIONAL.
- EXISTING INFORMATION OBTAINED FROM 1994 "FORESIGHT SYSTEMS INC. CITY OF ROCKPORT, INDIANA WASTEWATER WORKS PROJECT WATER POLLUTION CONTROL FACILITIES IMPROVEMENTS" AND 1996 "MIDWESTERN ENGINEERS INC. WASTEWATER IMPROVEMENTS FOR THE CITY OF OF ROCKPORT, SPENCER COUNTY, INDIANA" AS-BUILTS, SITE SURVEY, AND FIELD INVESTIGATIVE WORK PERFORMED BY CEI.
- ITEMS TO BE DEMOLISHED, REMOVED AND LAWFULLY DISPOSED OF COMPLETE TO ACCOMMODATE IMPROVEMENTS (THIS IS NOT INTENDED TO BE ALL INCLUSIVE, MERELY A REFERENCE). CONTRACTOR SHALL PERFORM ANY/ALL DEMOLITION, REMOVAL, AND DISPOSAL ACTIVITIES AS REQUIRED FOR COMPLETE AND OPERATIONAL FACILITIES/INSTALLATIONS. REQUIRED DEMOLITION FOR SMALL DIAMETER PIPING, CONDUIT, ETC. NOT SHOWN ON THIS SHEET FOR CLARITY.
- DEMOLITION WORK SHALL NOT BE INCLUDED IN THE BASE BID. SEE SPECIFICATIONS AND BID SCHEDULE FOR DESIGNATION OF DEMOLITION WORK ITEMS.
- EXISTING STRUCTURE TO BE DEMOLISHED IN ACCORDANCE WITH DEMOLITION AND MANDATORY ALTERNATE SPECIFICATIONS.

NOTES:

- DRAWINGS ARE NOT AVAILABLE FOR THE UV AND CASCADE STRUCTURE THAT IS ATTACHED TO THE CHLORINE CONTACT TANK.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING DIMENSIONS OF ALL EXISTING STRUCTURES.



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Signature: *Eric T. Parsley* Date: 01/24/24

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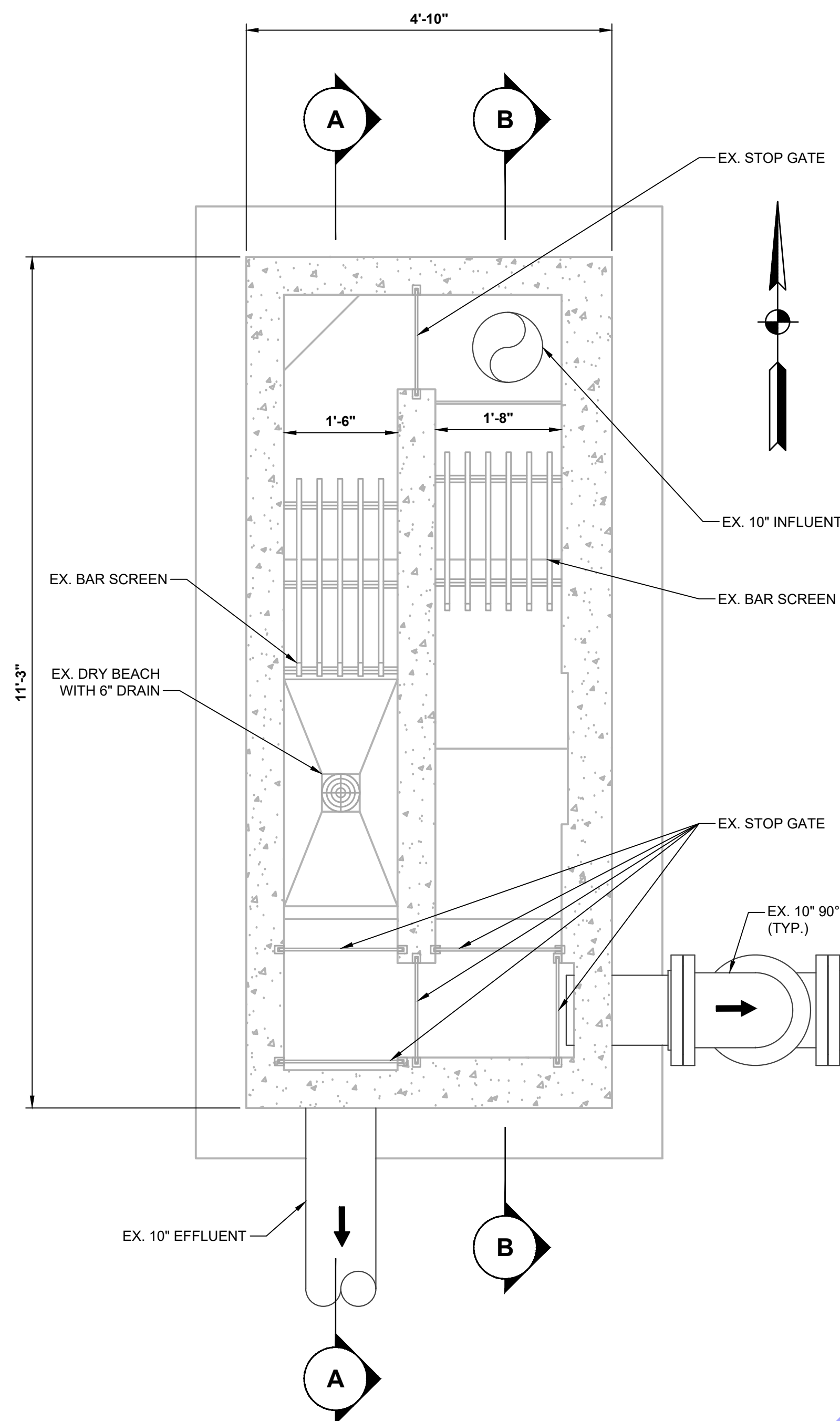
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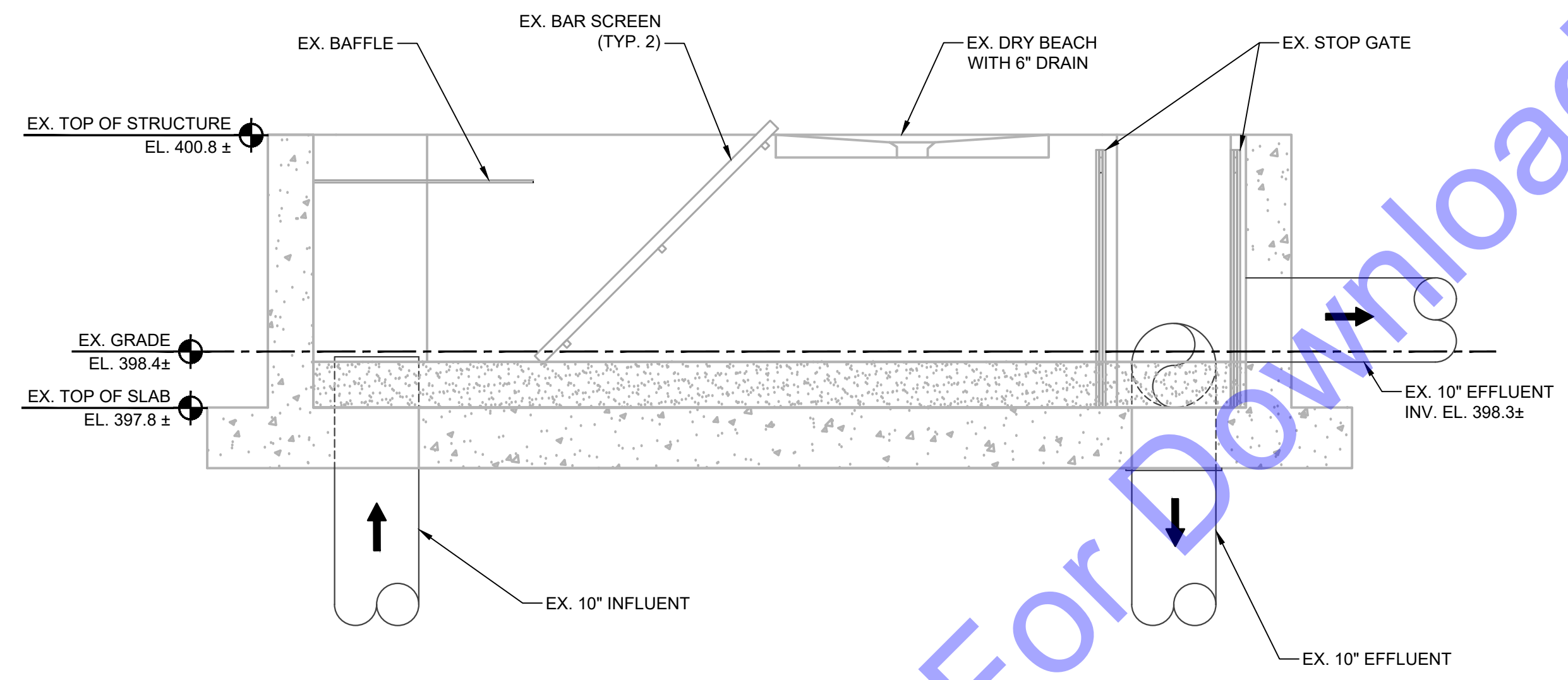
EXISTING SOUTH WWTP - DEMOLITION PLAN VIEW

Drawing No:
DD5-03

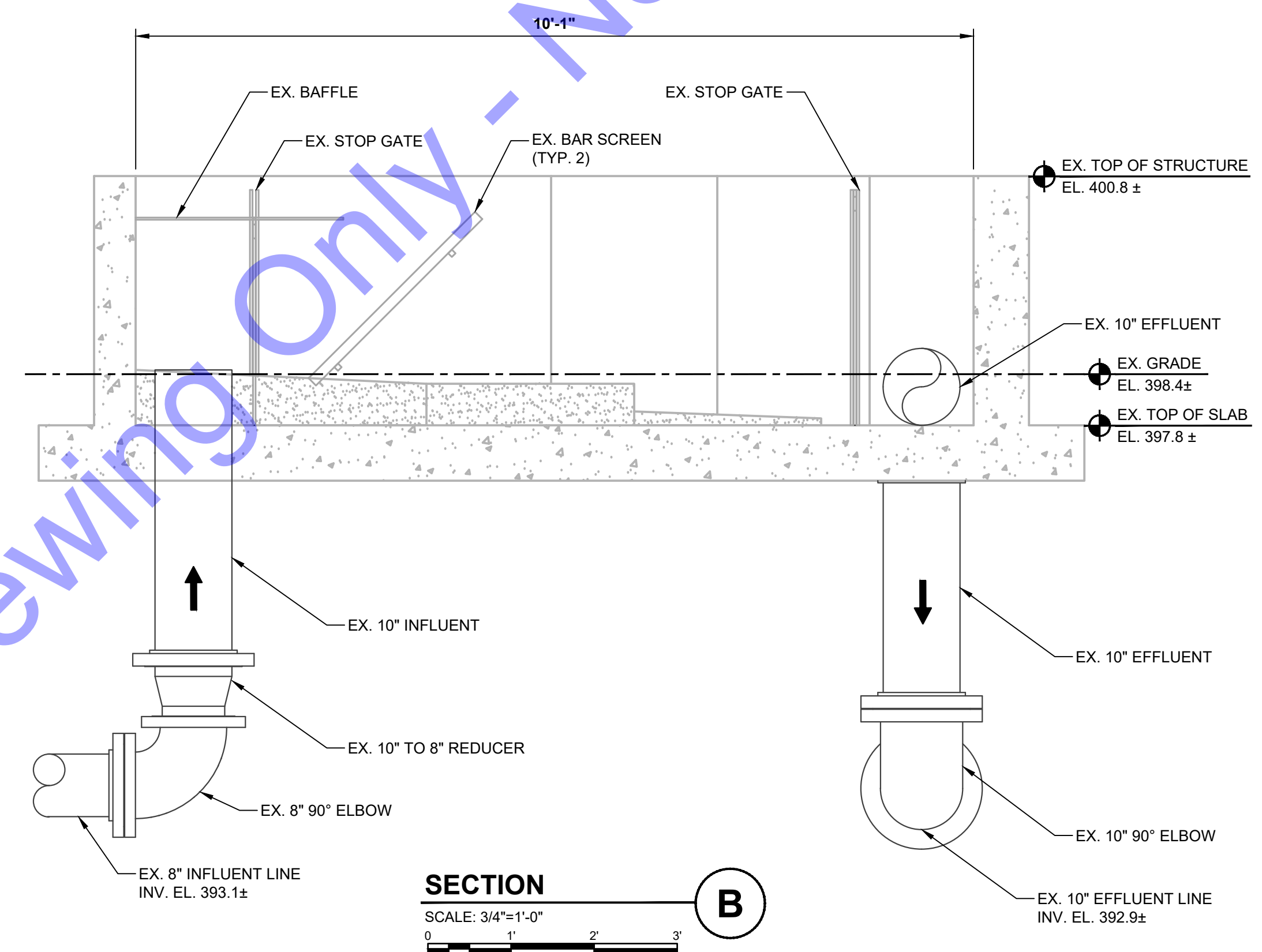
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 Sheet: 3/22/2024, 3:14:02 PM, Plotted: 4/10/2024, 3:01:04 PM, Current User: Dylan Nelligan, User: dnnelligan



PLAN
 SCALE: 3/4"=1'-0"
 0 1' 2' 3'



SECTION A
 SCALE: 3/4"=1'-0"
 0 1' 2' 3'



SECTION B
 SCALE: 3/4"=1'-0"
 0 1' 2' 3'



NORTHEAST VIEW



SOUTHWEST VIEW

DEMOLITION NOTES:

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Professional Engineer Seal for Eric T. Parsley, No. 102003330, State of Indiana. Signature and Date (01/24/24).

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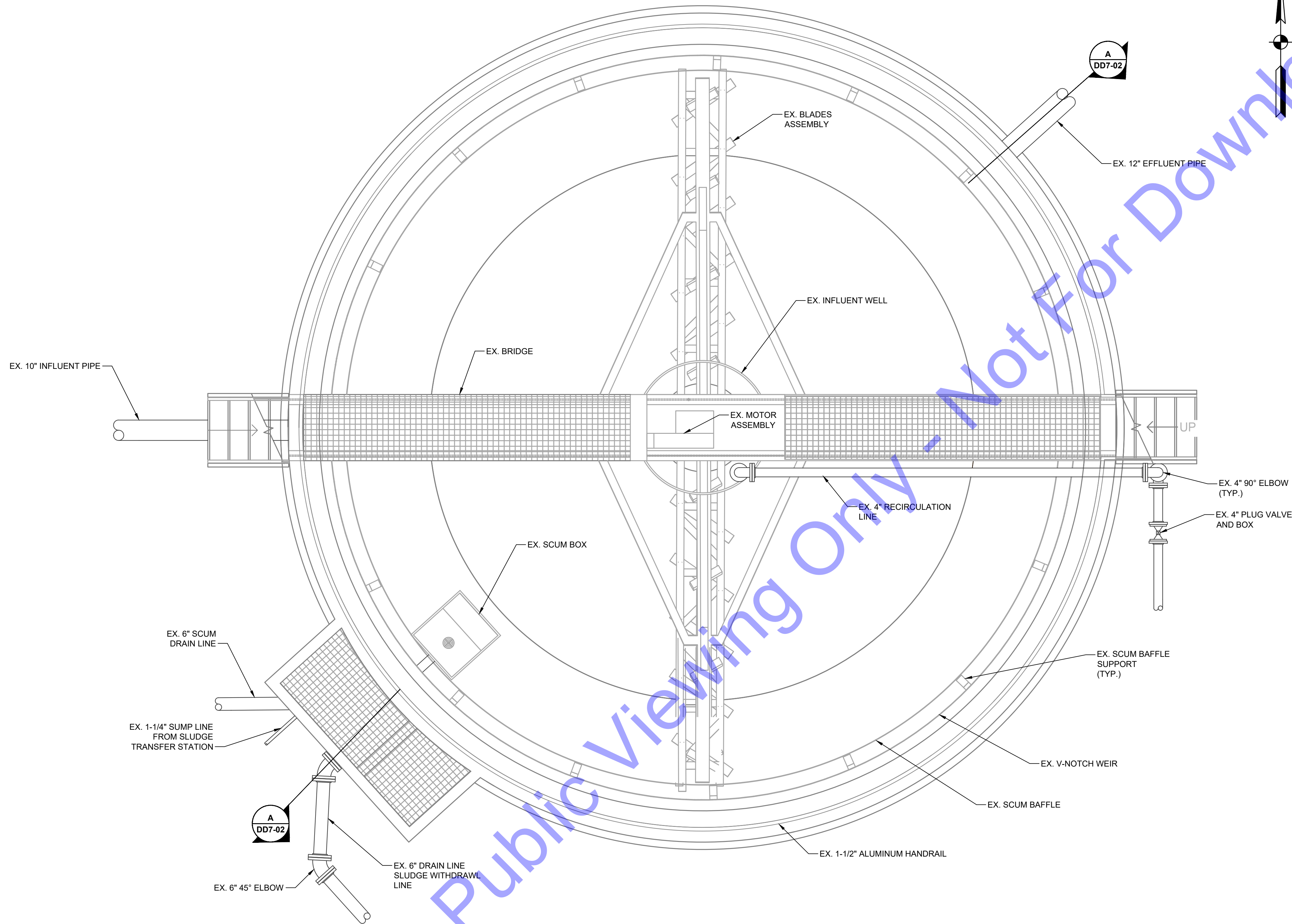
No.	Submittal / Revision	Date	By

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Issue Date:	Project No.:	Scale:
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EXISTING SOUTH WWTTP HEADWORKS - DEMOLITION PLAN AND SECTIONS

Drawing No:
DD6-01
 Sheet: 107 OF 177

FILE: Z:\SHARED\CLIENTS\2024\ROCKPORT\03107 WASTE WATER LTCP PHASE 4 - WWTPT\17 EX SOUTH WWTPT PRIMARY CLARIFIER.DWG
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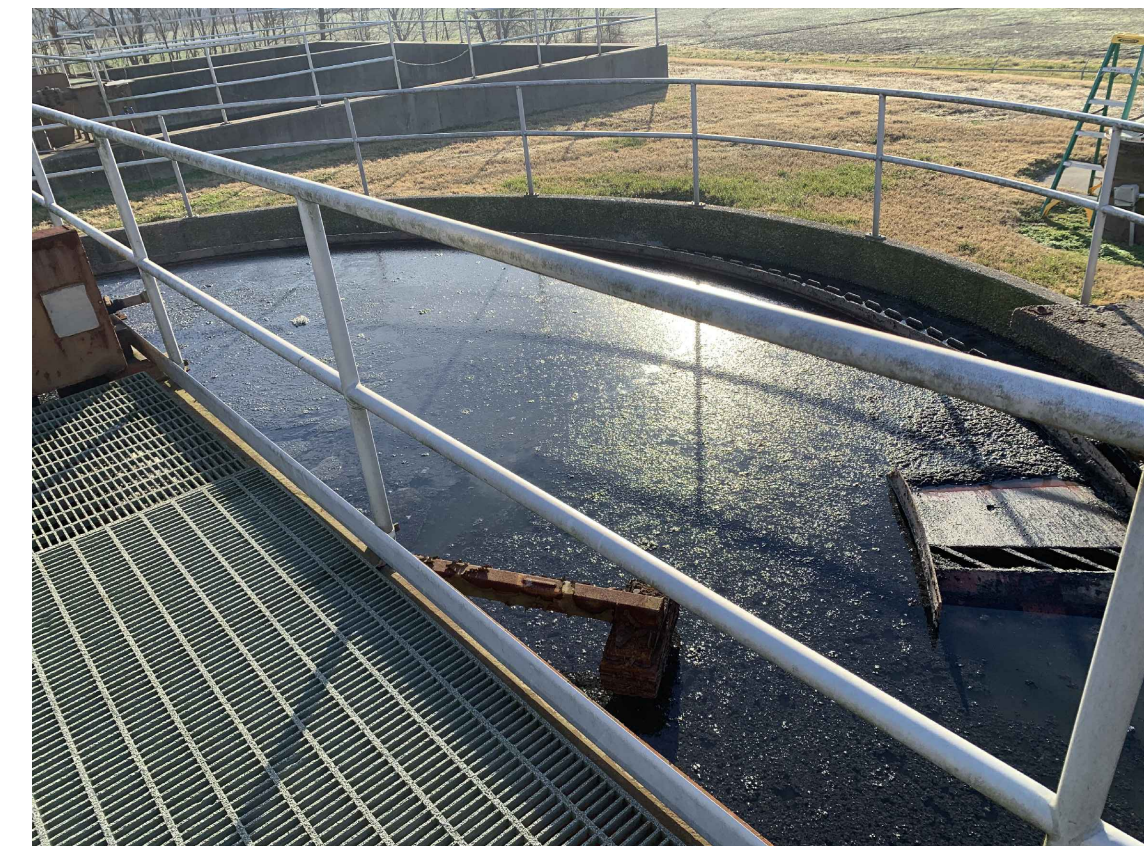
PLAN
 SCALE: 3/8"=1'-0"
 0 2 4 6



SOUTHEAST VIEW



NORTH VIEW



SOUTH VIEW

DEMOLITION NOTES:

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Professional Engineer Seal for E. T. Parsi, No. 102003330, State of Indiana.
 Signature: E. T. Parsi
 Date: 01/24/24

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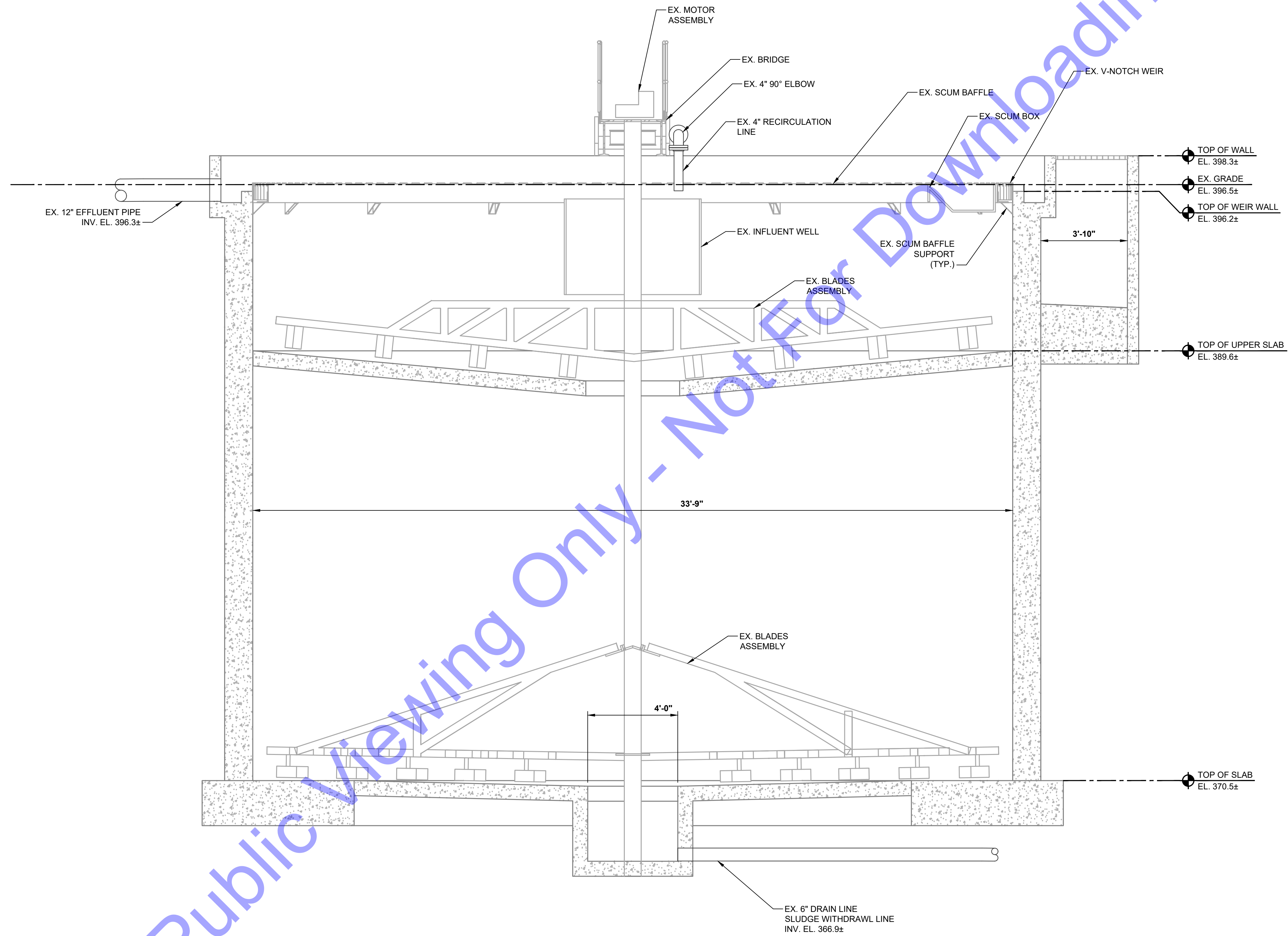
No.	Submittal / Revision	Date	By

Designed By: JE	Drawn By: DAN	Checked By: EP
Issue Date: JAN. 2024	Project No: S20107	Scale: AS SHOWN

EXISTING SOUTH WWTPT PRIMARY CLARIFIER - DEMOLITION PLAN VIEW

Drawing No: **DD7-01**

FILE: Z:\SHARED\CLIENTS\NORTH ROCKPORT\DD7-01\WASTEWATER LTCP PHASE 4 - WWTP\17 EX. SOUTH WWTP PRIMARY CLARIFIER.DWG
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SECTION
 SCALE: 3/8"=1'-0"
 DD7-01

DEMOLITION NOTES:

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Professional Engineer Seal for E. T. Pars, No. 102003330, State of Indiana.
 Signature: E.T. Pars
 Date: 01/24/24

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 WASTEWATER LTCP PHASE 4
 PROJECT
 DIVISION "A" - WWTP**

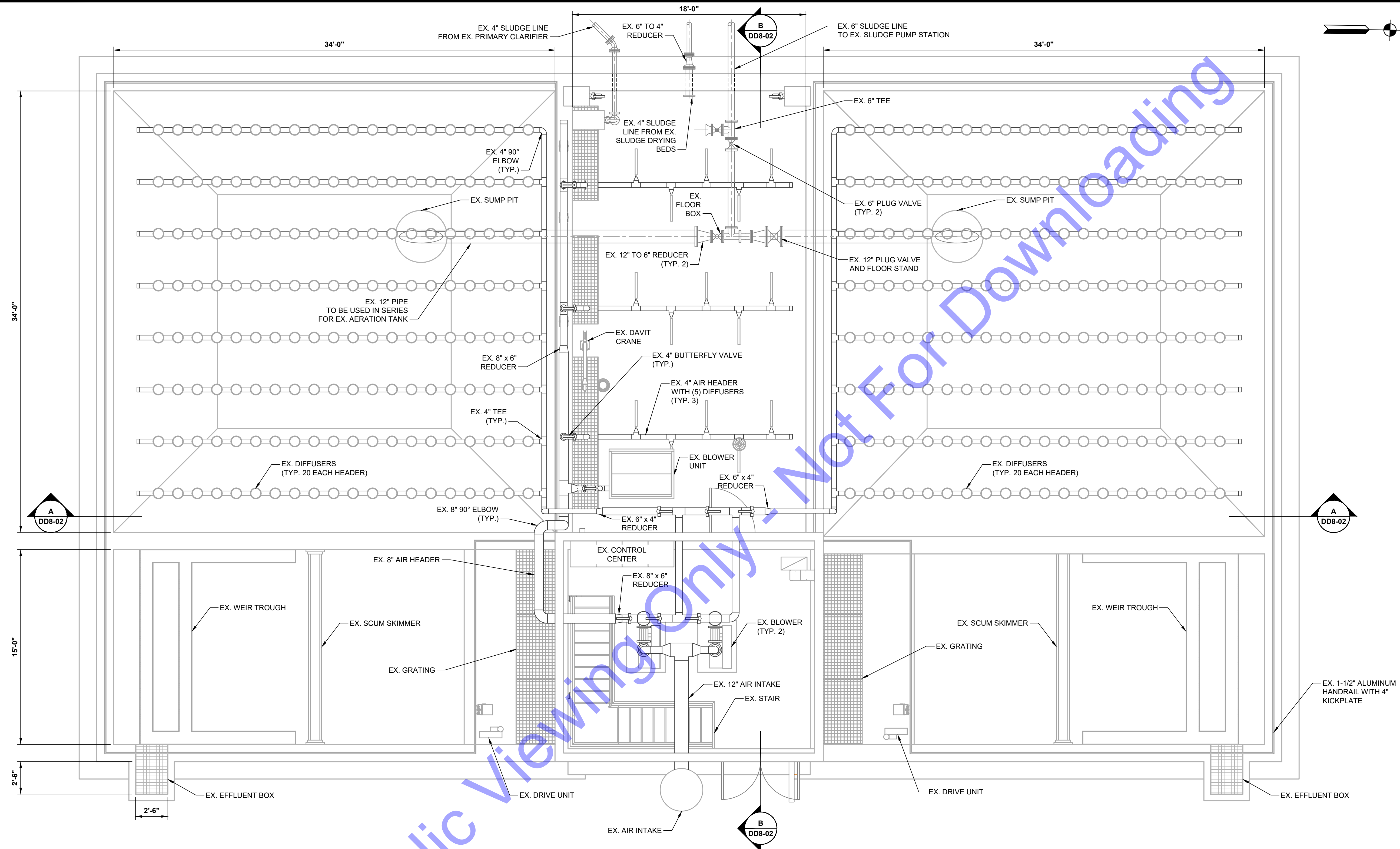
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EXISTING SOUTH WWTP PRIMARY CLARIFIER - DEMOLITION SECTION VIEW

FILE: Z:\SHARED\CLIENTS\N.ROCKPORT\DD8107 WASTEWATER LTCP PHASE 4B - WWTFA - EX. SOUTH WWTP AERATION TANKS.DWG
 SHEET: 2/28/2024 3:14:43 PM PLOT: 4/10/2024 10:10:40 PM Current User: Dylan Nigro Lds2024@7_mmsdwy



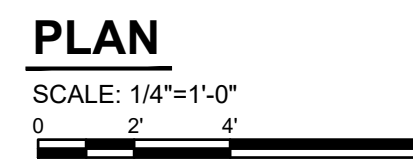
NORtheast VIEW



NORTH VIEW



SOUTH VIEW



DEMOLITION NOTES:

- EXISTING INFORMATION OBTAINED FROM 2000 "NORTH WASTEWATER TREATMENT PLANT AND COLLECTION SYSTEM IMPROVEMENTS" AS-BUILT, SITE SURVEY AND FIELD INVESTIGATIVE WORK PERFORMED BY CEI.
- STRUCTURE TO BE DEMOLISHED IN ACCORDANCE WITH DEMOLITION AND MANDATORY ALTERNATE SPECIFICATIONS.
- UNLESS OTHERWISE NOTED, CONTRACTOR SHALL PLUG, SEAL WATER TIGHT, AND ABANDON IN PLACE ALL EXISTING SITE PIPING AT ALL STRUCTURES THAT ARE SHOWN TO BE DEMOLISHED AND REMOVED ONCE PLANT IMPROVEMENTS ARE OPERATIONAL.

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Signature: *E. T. Parsi* Date: 01/24/24

CITY OF ROCKPORT, INDIANA
SPENCER COUNTY, INDIANA
WASTEWATER LTCP PHASE 4 PROJECT
DIVISION "A" - WWTP

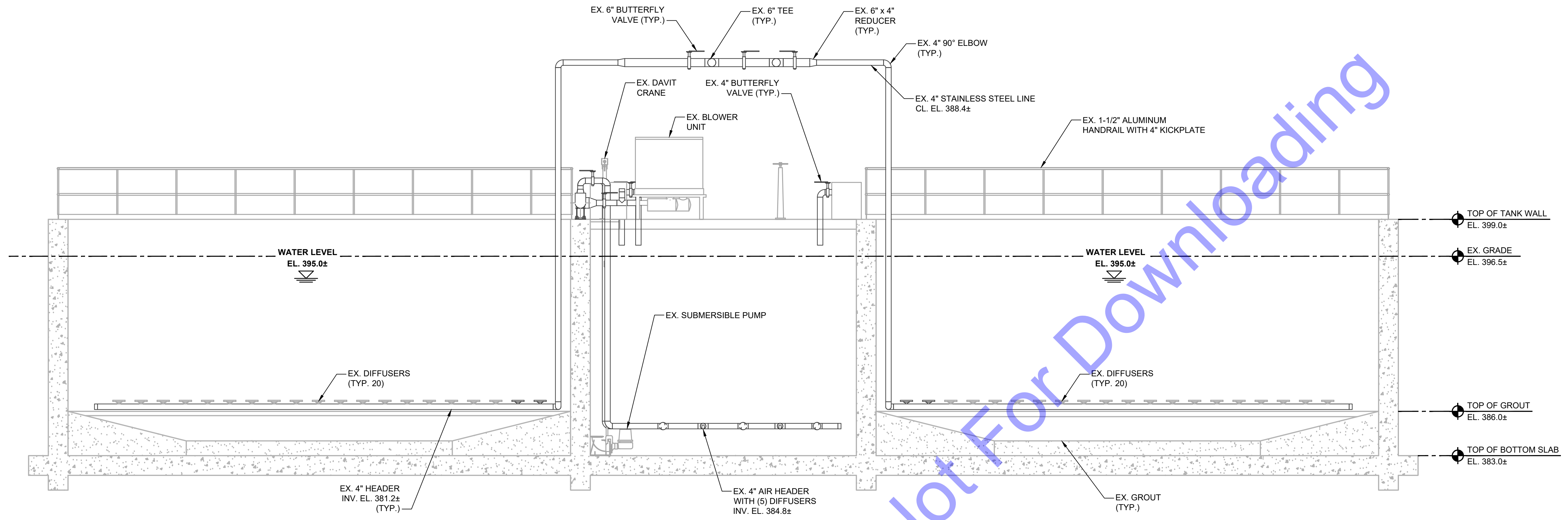
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No.	Submittal / Revision	Date	By

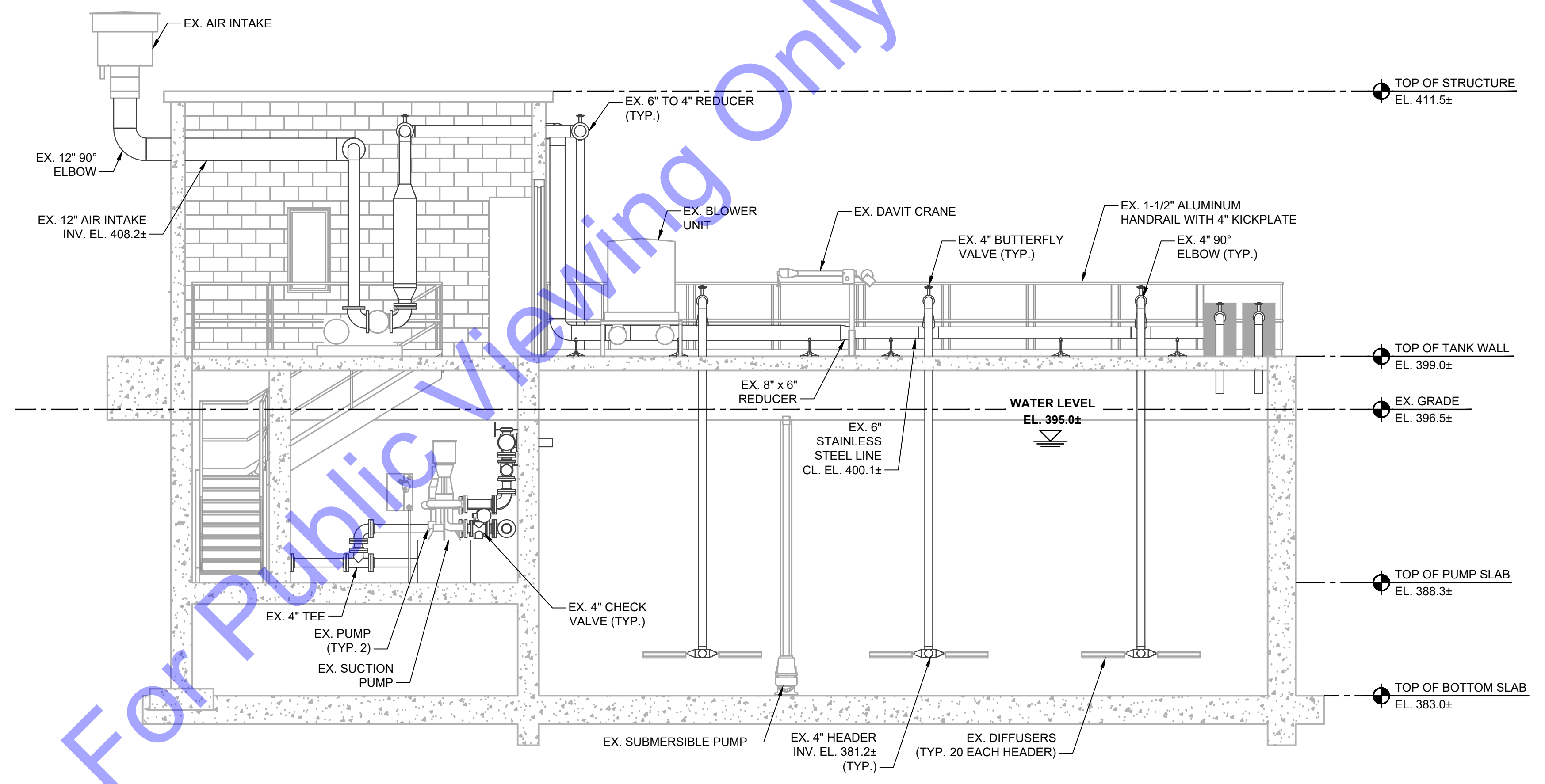
Designed By: JE	Drawn By: DAN	Checked By: EP
Issue Date: JAN. 2024	Project No: S20107	Scale: AS SHOWN

EXISTING SOUTH WWTP AERATION TANKS - DEMOLITION PLAN VIEW

File: Z:\SHARED\IN\CLIENTS\NORTH ROCKPORT\DD8-01\WATER TREATMENT\TANKS\DWG - WWT18-EX SOUTH WWTP AERATION TANKS.DWG
 Sheet: 2/2/2024, 3:14:40 PM, Plotted: 4/10/2024, 3:01:52 PM, Current User: Dylan Nelligan, User: dnnelligan@cei.com



SECTION A
 SCALE: 1/4"=1'-0"
 DD8-01



SECTION B
 SCALE: 1/4"=1'-0"
 DD8-01

- DEMOLITION NOTES:**
- EXISTING INFORMATION OBTAINED FROM 2000 "NORTH WASTEWATER TREATMENT PLANT AND COLLECTION SYSTEM IMPROVEMENTS" AS-BUILT, SITE SURVEY AND FIELD INVESTIGATIVE WORK PERFORMED BY CEI.
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REGISTERED PROFESSIONAL ENGINEER
 No. 102003330
 STATE OF INDIANA
 Signature: *E.T. Pars*
 Date: 01/24/24

CITY OF ROCKPORT, INDIANA
SPENCER COUNTY, INDIANA
WASTEWATER LTCP PHASE 4 PROJECT
DIVISION "A" - WWTP

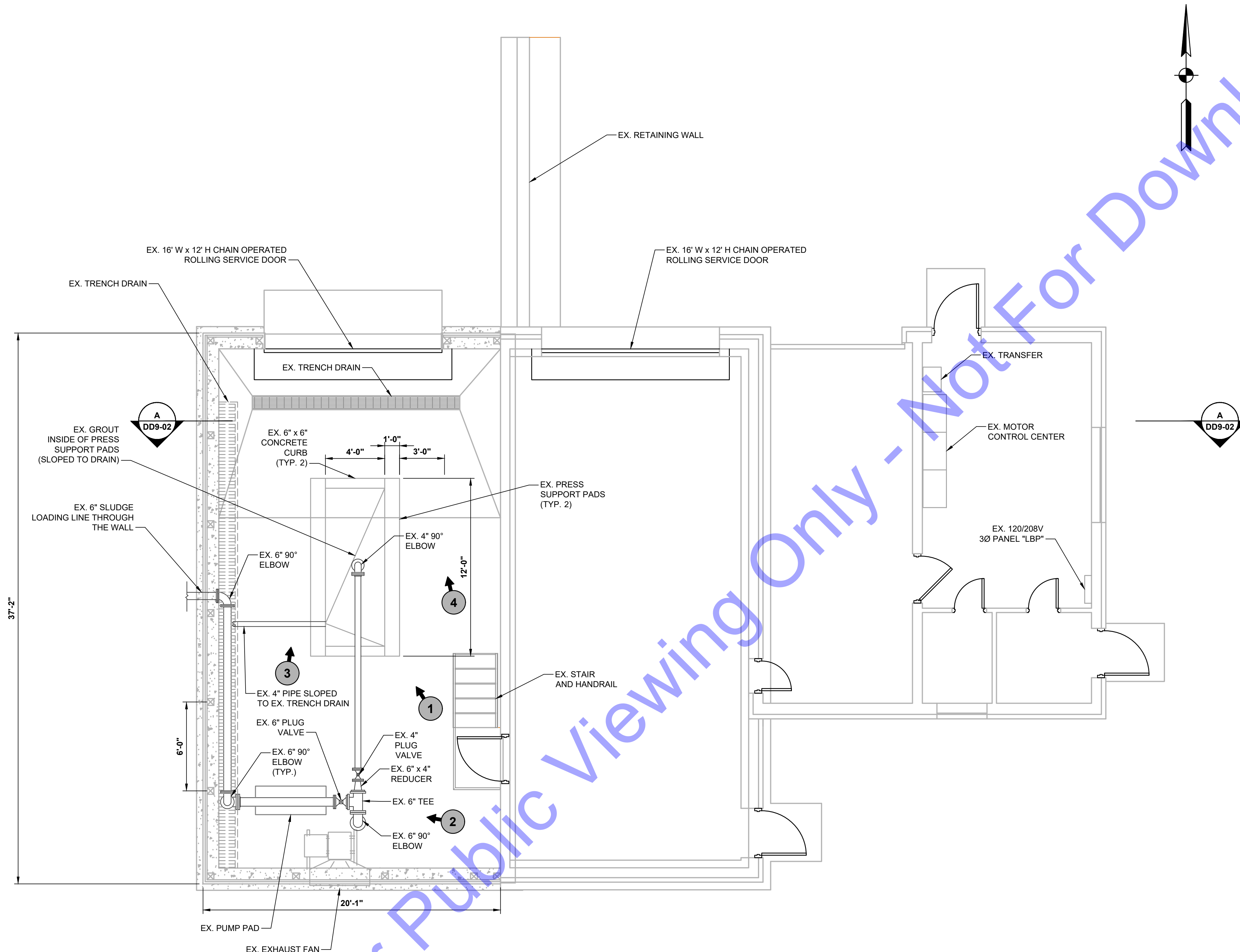
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EXISTING SOUTH WWTP AERATION TANKS - DEMOLITION SECTION VIEWS

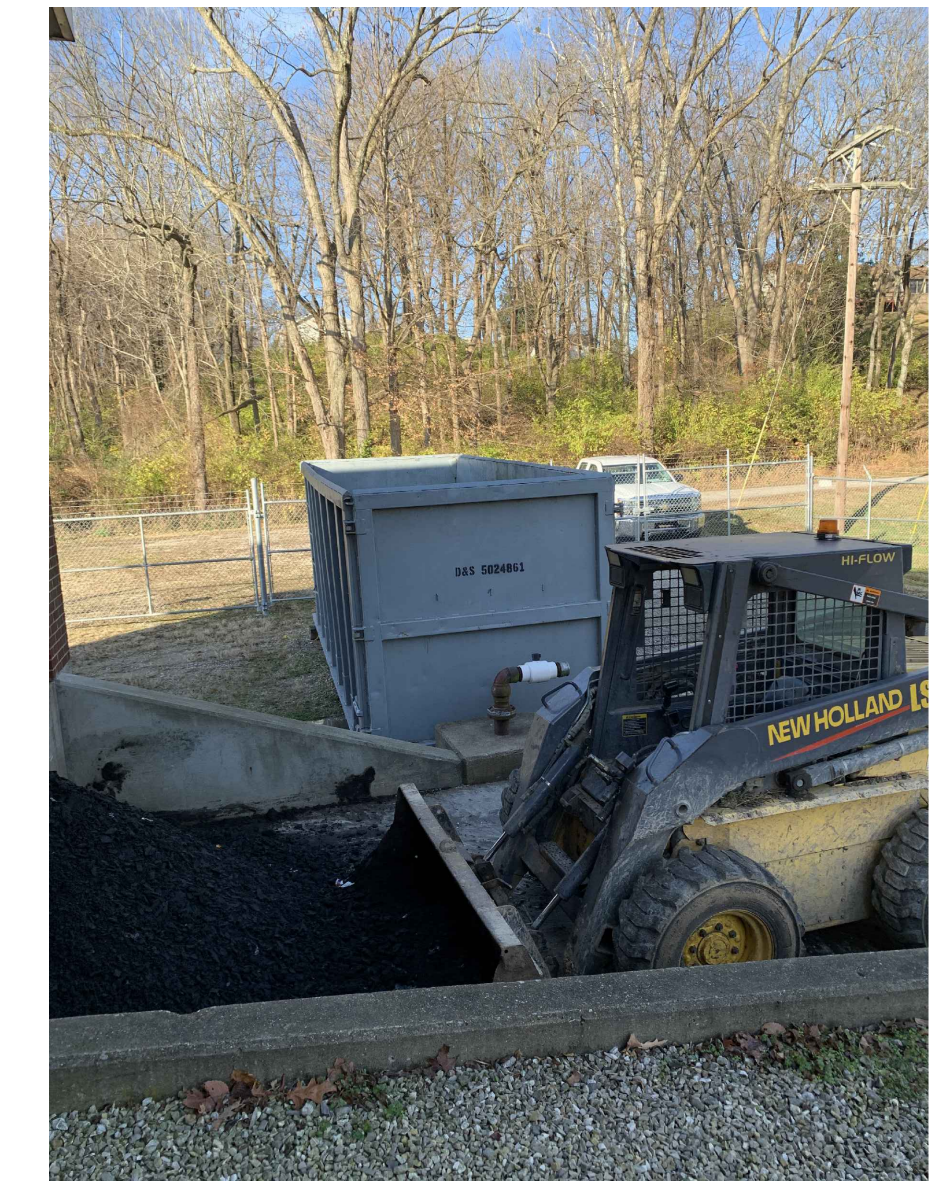
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 Sheet: 3/22/2024, 3:14:25 PM, Plotted: 4/10/2024, 3:02:10 PM, Current User: Dylan Nelligan, User: dnelligan



PLAN
 SCALE: 1/4"=1'-0"
 0 2' 4' 8'



SOUTH VIEW



WEST VIEW

- DEMOLITION NOTES:**
- EXISTING INFORMATION OBTAINED FROM 2000 "NORTH WASTEWATER TREATMENT PLANT AND COLLECTION SYSTEM IMPROVEMENTS" AS-BUILT, SITE SURVEY AND FIELD INVESTIGATIVE WORK PERFORMED BY CEI.
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Professional Engineer Seal for Eric T. Parsley, No. 102003330, State of Indiana.
 Signature: *E.T. Parsley*
 Date: 01/24/24

**CITY OF ROCKPORT, INDIANA
 SPENCER COUNTY, INDIANA
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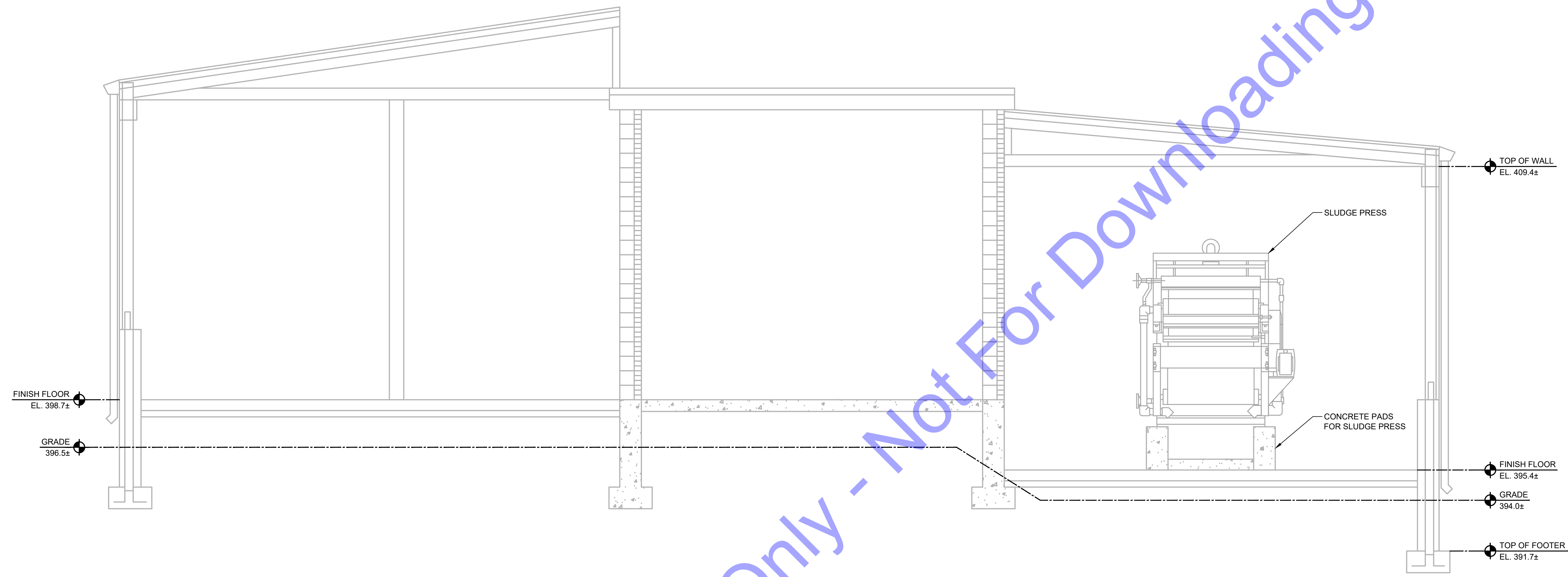
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EXISTING SOUTH WWTP SLUDGE BUILDING - DEMOLITION PLAN VIEW

File: Z:\SHARED\CLIENTS\2000\PORTLAND\EXISTING WASTEWATER LTCP PHASE 4\DWG\CAD\CURRENT FILES\DRAWINGS\DIVISION A - WWTP\19-EX - SOUTH WWTP SLUDGE BUILDING.DWG
 Sheet: 3/22/2024, 3:14:52 PM, Plotted: 4/10/2024, 5:02:11 PM, Current User: Dylan Naga, User: dnaga@cei.com



SECTION
 SCALE: 3/8"=1'-0"
 DD9-01

- DEMOLITION NOTES:**
- EXISTING INFORMATION OBTAINED FROM 2000 "NORTH WASTEWATER TREATMENT PLANT AND COLLECTION SYSTEM IMPROVEMENTS" AS-BUILT, SITE SURVEY AND FIELD INVESTIGATIVE WORK PERFORMED BY CEI.
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INTERIOR PHOTO #1



INTERIOR PHOTO #2



INTERIOR PHOTO #3



INTERIOR PHOTO #4

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ERIC T. PARSLEY
 REGISTERED PROFESSIONAL ENGINEER
 No. 102003330
 STATE OF INDIANA
 Signature: *[Signature]* Date: 01/24/24

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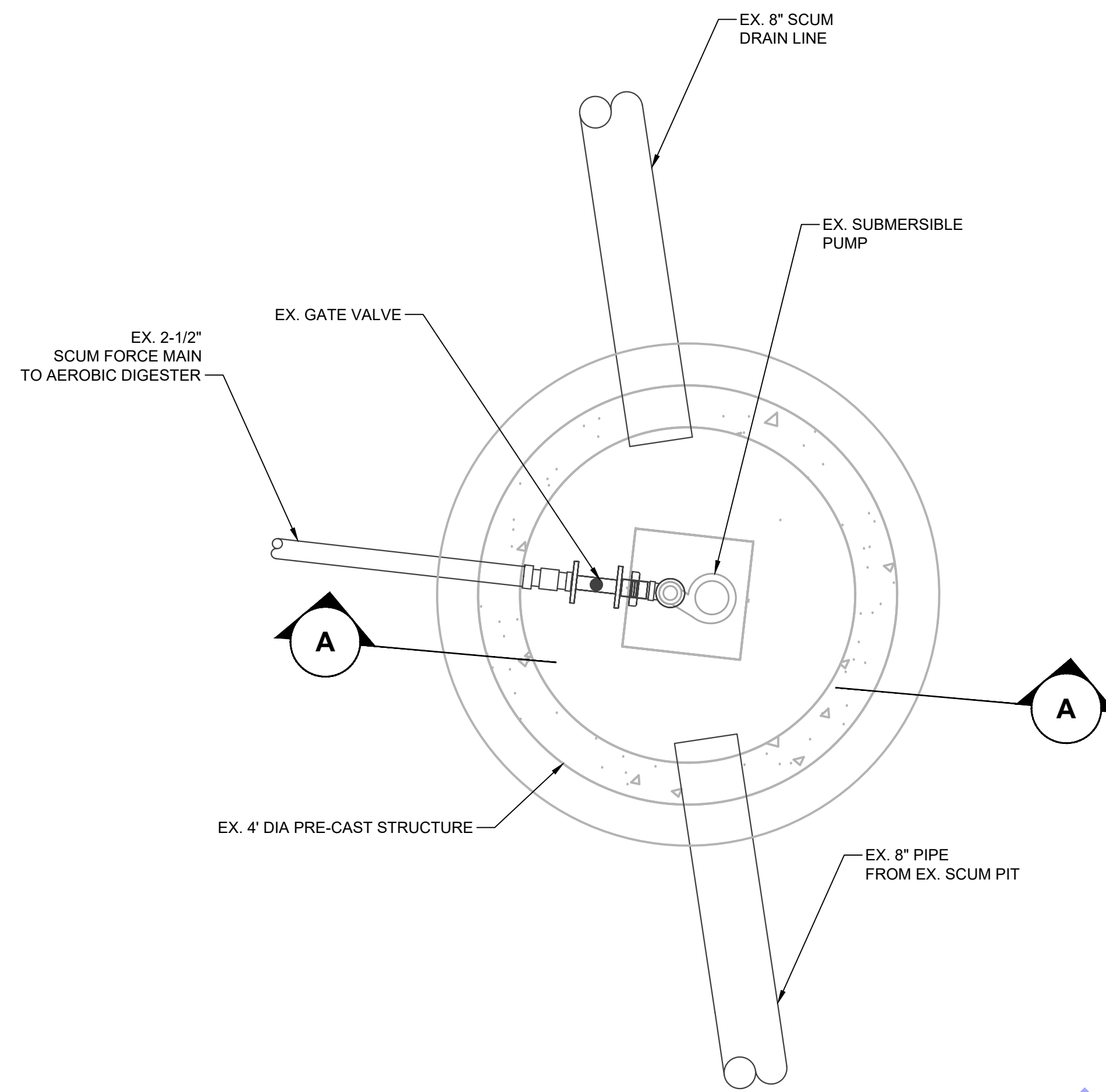
Designed By: JE
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 Project No: S20107
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EXISTING SOUTH
 WWTP SLUDGE
 BUILDING - DEMOLITION
 SECTION VIEW

Drawing No:
DD9-02
 Sheet: 113 OF 177

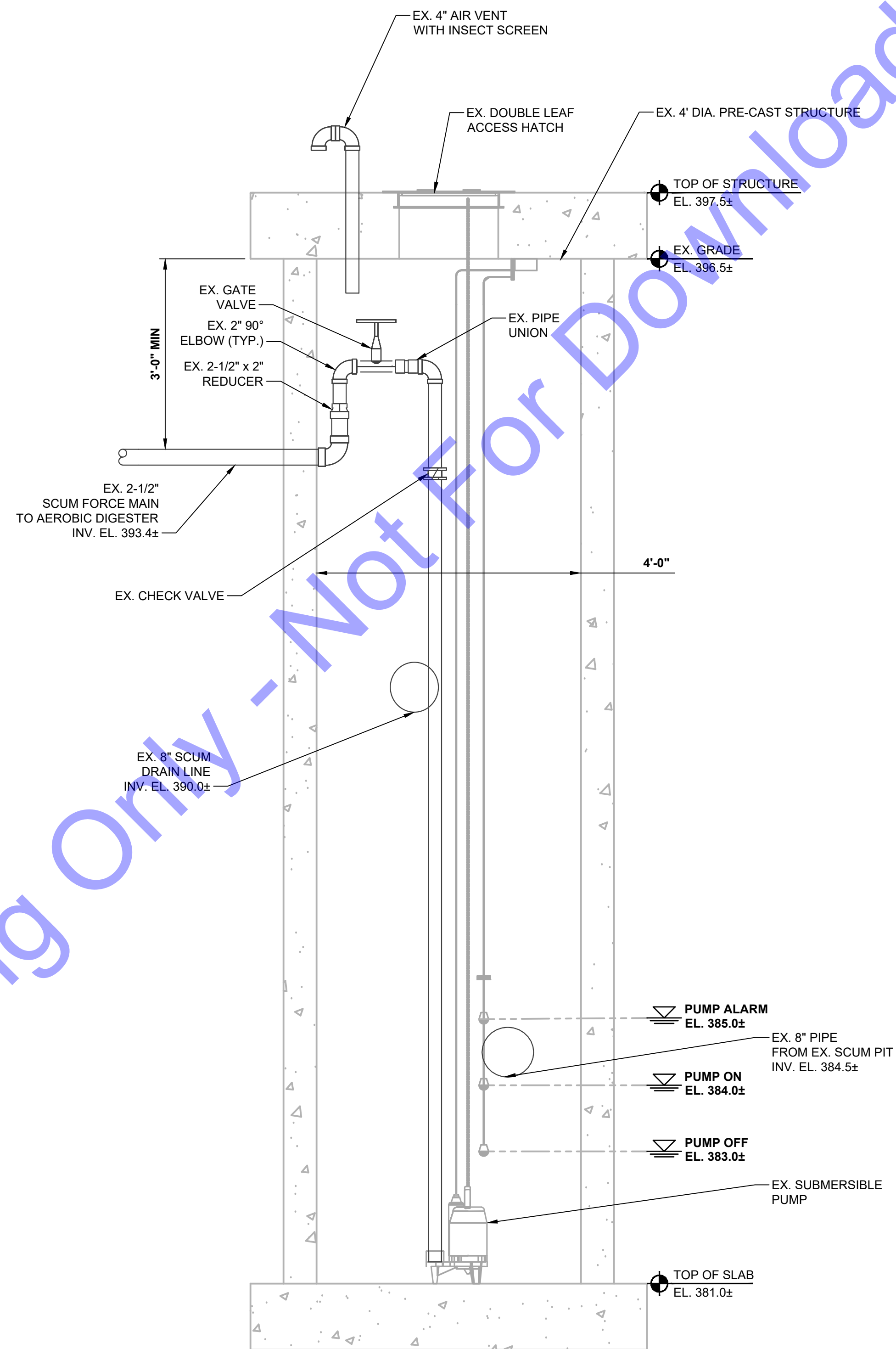
FILE: Z:\SHARED\CLIENTS\14\ROCKPORT\1403107 WASTE WATER LTCP PHASE 4 - WWTP20-EX SOUTH WWTP SCUM PUMP STATION.DWG
 Sheet: 3/29/2024, 3:14:52 PM, Plotter: 4:10/2024, 3:22:29 PM, Current User: Dylan Nigha Lakshminarayana

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PLAN

SCALE: 3/4"=1'-0"



SECTION

SCALE: 3/4"=1'-0"



SOUTH VIEW

DEMOLITION NOTES:

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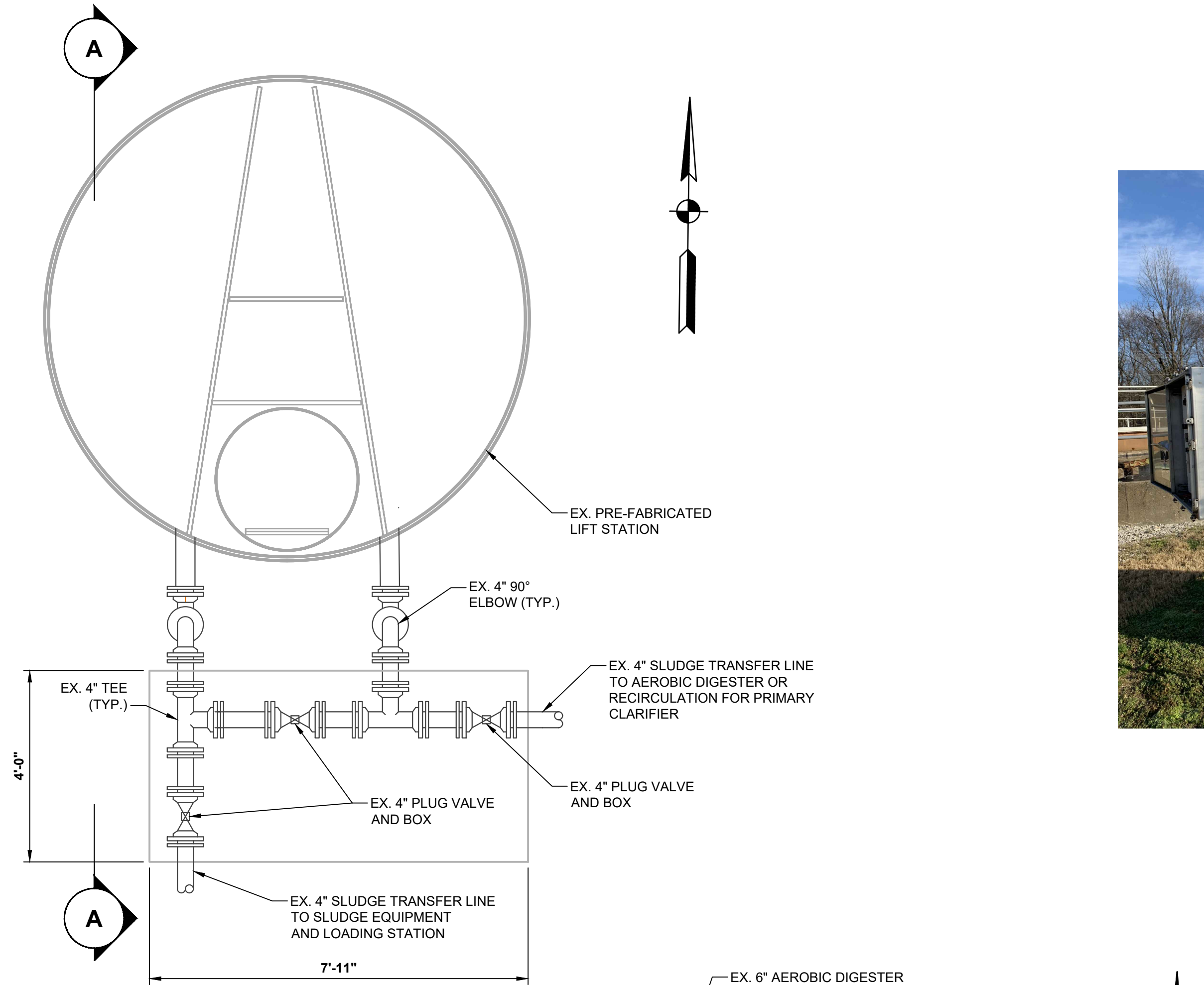
Professional Engineer Seal for Eric T. Parsi, No. 10200330, State of Indiana. Signature: Eric T. Parsi, Date: 01/24/24.

**CITY OF ROCKPORT
 SPENCER COUNTY, INDIANA
 WASTEWATER LTCP PHASE 4
 PROJECT
 DIVISION "A" - WWTP**

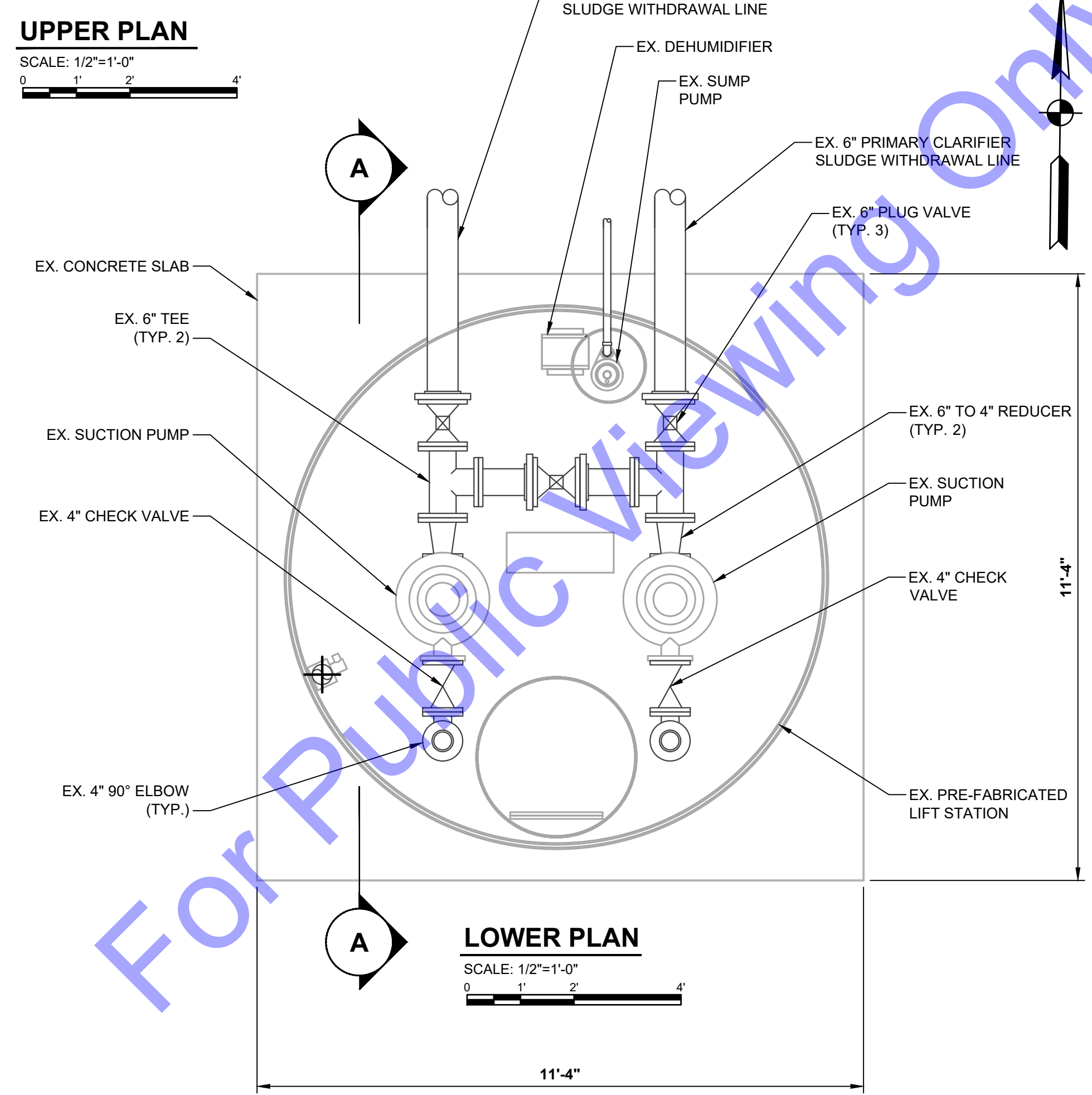
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Issue Date:	JAN. 2024	Project No.:	S20107	Scale:	AS SHOWN
EX. SOUTH WWTP SCUM PUMP STATION - DEMO PLAN AND SECTION VIEWS					
Drawing No: DD10-01					
Sheet: 114 OF 177					



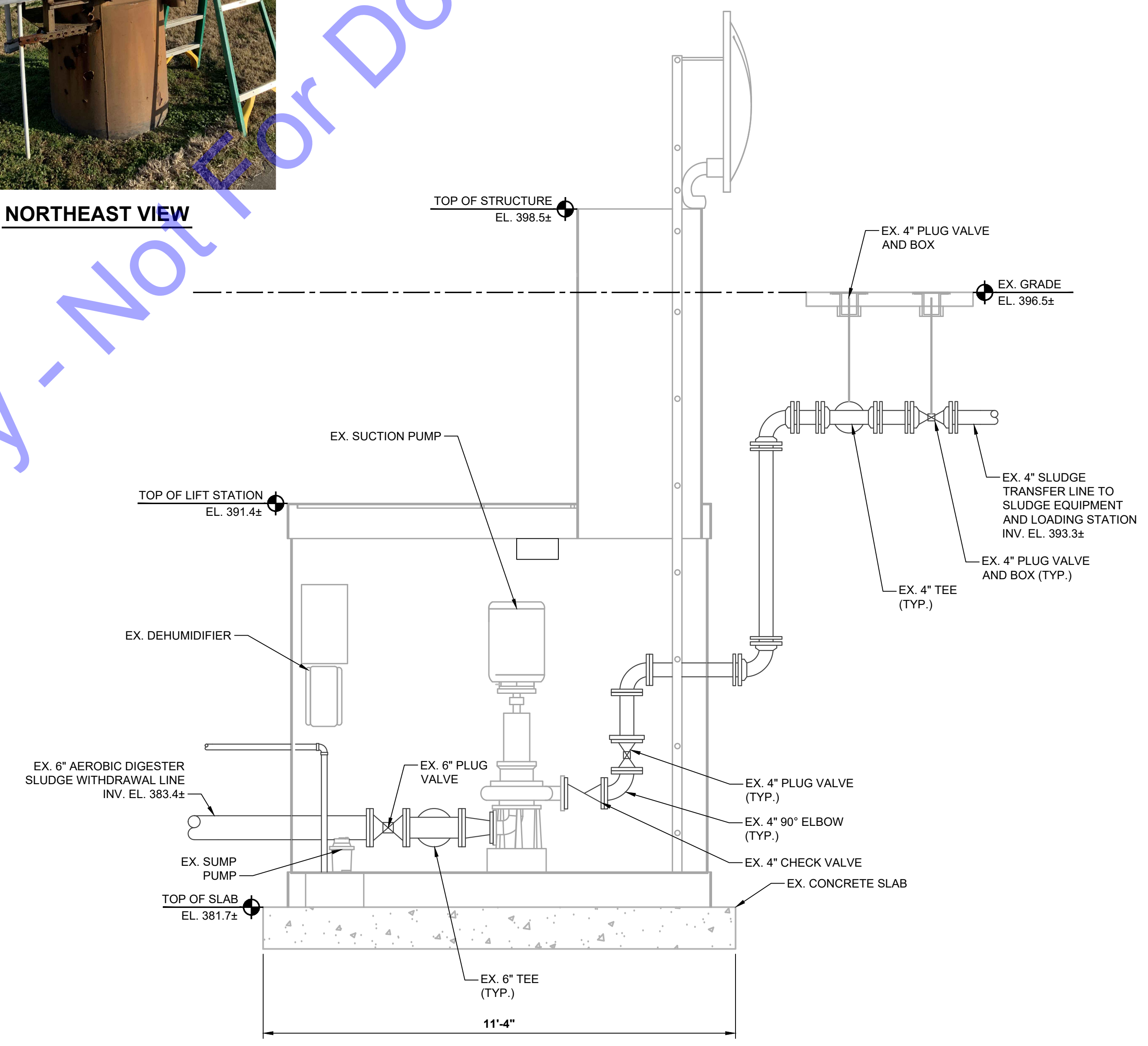
UPPER PLAN
 SCALE: 1/2"=1'-0"
 0 1' 2' 4'



LOWER PLAN
 SCALE: 1/2"=1'-0"
 0 1' 2' 4'



NORTHEAST VIEW



SECTION
 SCALE: 1/2"=1'-0"
 0 1' 2' 4'

- DEMOLITION NOTES:**
- EXISTING INFORMATION OBTAINED FROM 2000 "NORTH WASTEWATER TREATMENT PLANT AND COLLECTION SYSTEM IMPROVEMENTS" AS-BUILT, SITE SURVEY AND FIELD INVESTIGATIVE WORK PERFORMED BY CEI.
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Professional Engineer Seal for Eric T. Parsi, No. 102003330, State of Indiana.
 Signature: *E.T. Parsi*, Date: 01/24/24

CITY OF ROCKPORT, INDIANA
SPENCER COUNTY, INDIANA
WASTEWATER LTCP PHASE 4 PROJECT
DIVISION "A" - WWTP

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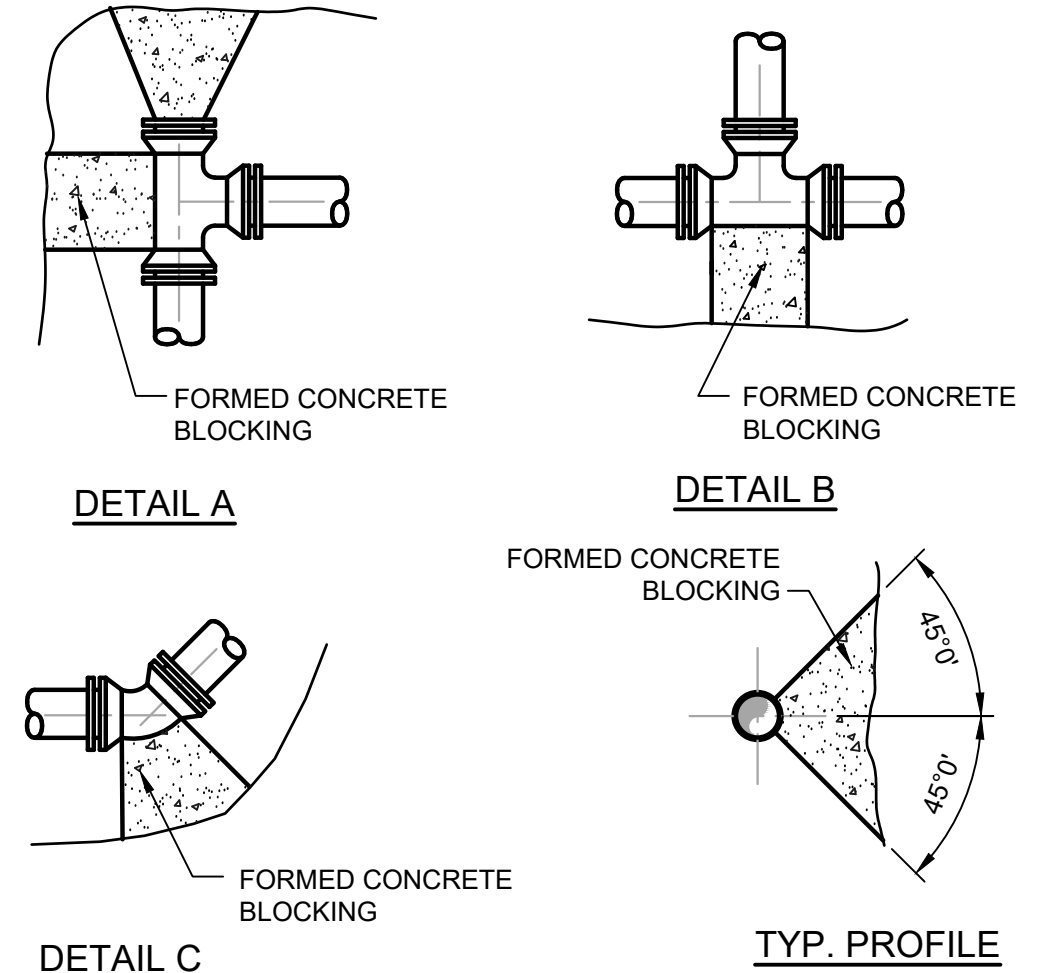
Designed By: JE	Drawn By: DAN	Checked By: EP
Issue Date: ---	Project No: S20107	Scale: AS SHOWN

EX. SOUTH WWTP SLUDGE PUMP STATION - DEMO PLAN AND SECTION VIEWS

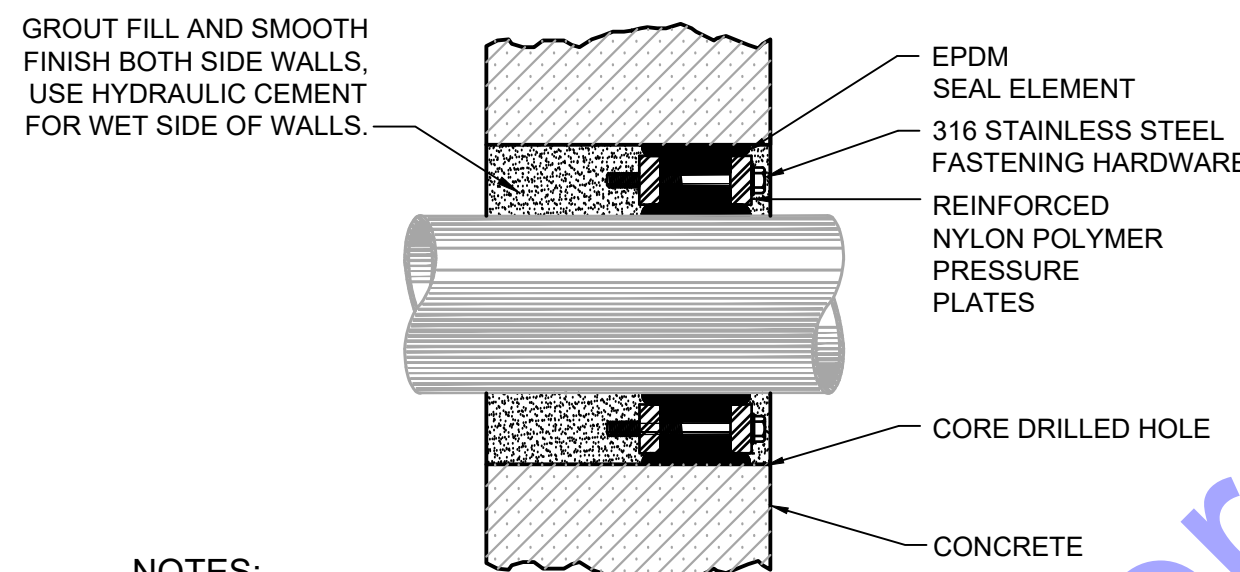
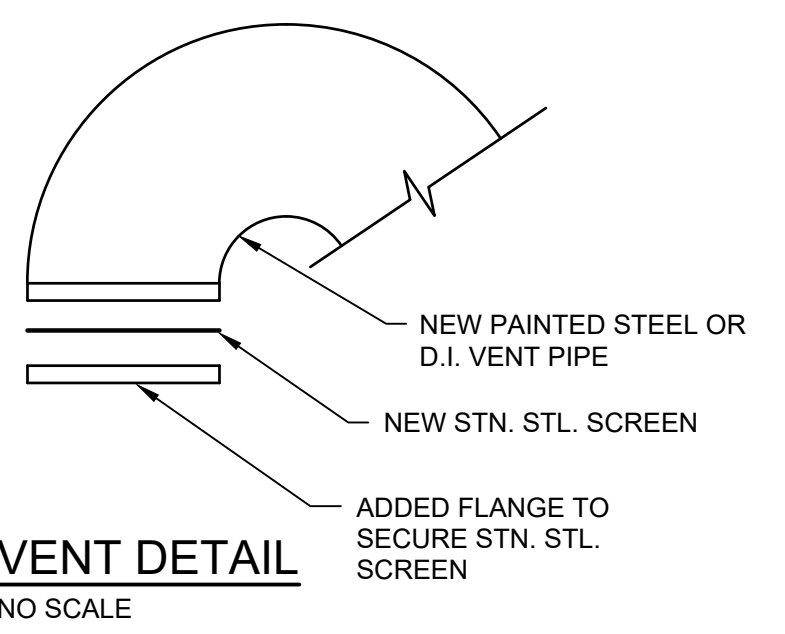
TABLE OF DIMENSION FOR CONCRETE BLOCKING

PIPE	TEE				PLUG				90° BEND				45° BEND				22° BEND				11° BEND									
	L	T	W	D	L	T	W	D	L	T	W	D	L	T	W	D	L	T	W	D	L	T	W	D	L	T	W	D		
4"	18"	12"	12"	8"	18"	12"	18"	2"	24"	12"	24"	8"	18"	8"	12"	8"	18"	8"	12"	8"	15"	8"	12"	6"						
6"	18"	12"	12"	8"	18"	12"	18"	2"	24"	15"	24"	8"	18"	10"	12"	8"	18"	10"	12"	8"	18"	10"	18"	6"						
8"	30"	12"	24"	8"	30"	18"	30"	24"	4"	36"	16"	30"	8"	24"	12"	18"	8"	24"	18"	8"	24"	12"	18"	8"						
10"	36"	18"	30"	10"	36"	18"	36"	24"	4"	48"	20"	36"	10"	30"	14"	24"	10"	30"	14"	24"	10"	24"	14"	18"	8"					
12"	48"	18"	36"	10"	42"	18"	42"	24"	4"	54"	24"	48"	10"	36"	16"	30"	10"	36"	16"	30"	10"	30"	16"	24"	10"					
14"	54"	24"	42"	12"	48"	18"	48"	30"	6"	60"	28"	60"	12"	42"	16"	42"	12"	42"	16"	42"	12"	33"	16"	27"	12"					
16"	60"	24"	48"	12"	54"	18"	54"	30"	6"	66"	32"	63"	12"	48"	18"	48"	12"	48"	18"	48"	12"	36"	18"	30"	12"					
18"	66"	30"	60"	14"	60"	24"	60"	36"	6"	66"	36"	66"	14"	54"	18"	54"	14"	54"	18"	54"	14"	39"	18"	33"	14"					
20"	72"	30"	60"	14"	66"	24"	66"	36"	8"	72"	40"	69"	14"	60"	20"	60"	14"	60"	20"	60"	14"	42"	20"	36"	14"					
24"	84"	36"	72"	18"	78"	30"	78"	42"	8"	84"	48"	75"	18"	72"	22"	72"	18"	72"	22"	72"	18"	48"	22"	42"	18"					
30"	96"	42"	78"	24"	96"	36"	78"	48"	10"	108"	54"	96"	24"	84"	24"	72"	24"	72"	26"	72"	24"	54"	26"	48"	24"					
42"	144"	48"	96"	36"	144"	42"	96"	60"	10"	180"	66"	144"	36"	120"	36"	96"	36"	84"	34"	72"	36"	60"	34"	48"	36"					

- NOTES:
- FOR TEE WITH BRANCH UNEQUAL TO RUN USE TEE TYPE KICKER WITH D, L, AND W DIMENSIONS THE SAME AS THOSE FOR PLUG WITH SAME DIAMETER AS BRANCH OF TEE, SELECT "T" DIMENSIONS FROM TEE TABLE UNDER COLUMN HEADED BY THE SIZE OF THE BRANCH.
 - IF EXACT SIZE PIPE BLOCKING IS NOT SHOWN USE NEXT LARGER SIZE
 - DEPTH "D" MAY BE GREATER THAN SPECIFIED TO ALLOW WORKING SPACE BLOCKING MUST BE PLACED AGAINST UNDISTURBED EARTH OR ROCK
 - CONCRETE BLOCKING SHALL BE CLASS "B"

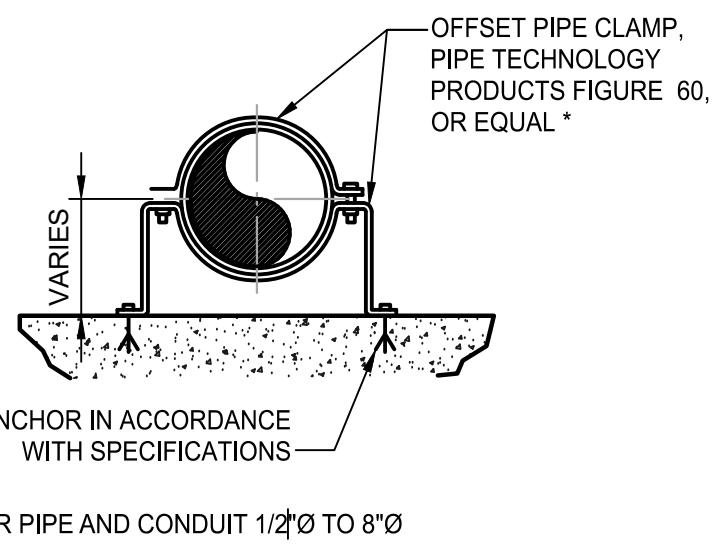


THRUST BLOCKING DETAIL
NO SCALE

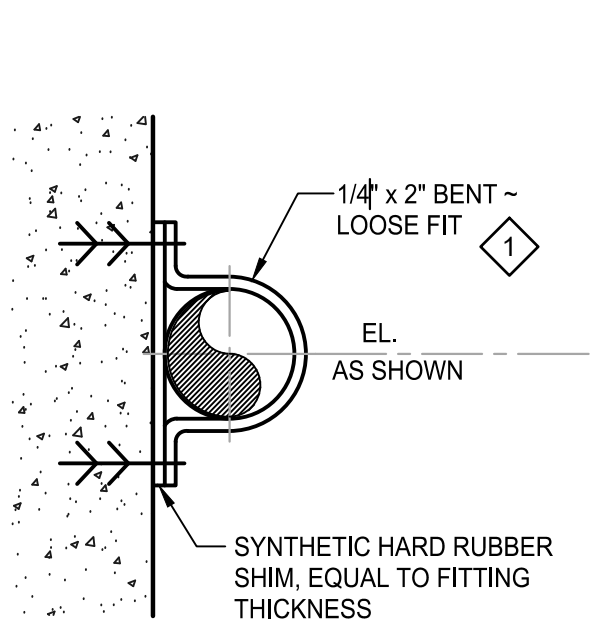


- NOTES:
- ELECTROMETRIC ELEMENT AND LINK-SEAL APPARATUS REQUIRED COMPATIBLE FOR HIGH TEMPERATURE APPLICATIONS - FOR ALL LINES
 - ALL WALL PENETRATIONS (EXISTING WALLS) CONVEYING PIPE SHALL UTILIZE A LINK-SEAL EQUIVALENT, SHALL BE GROUTED SMOOTH, AND SHALL HAVE A BONDING AGENT APPLIED.

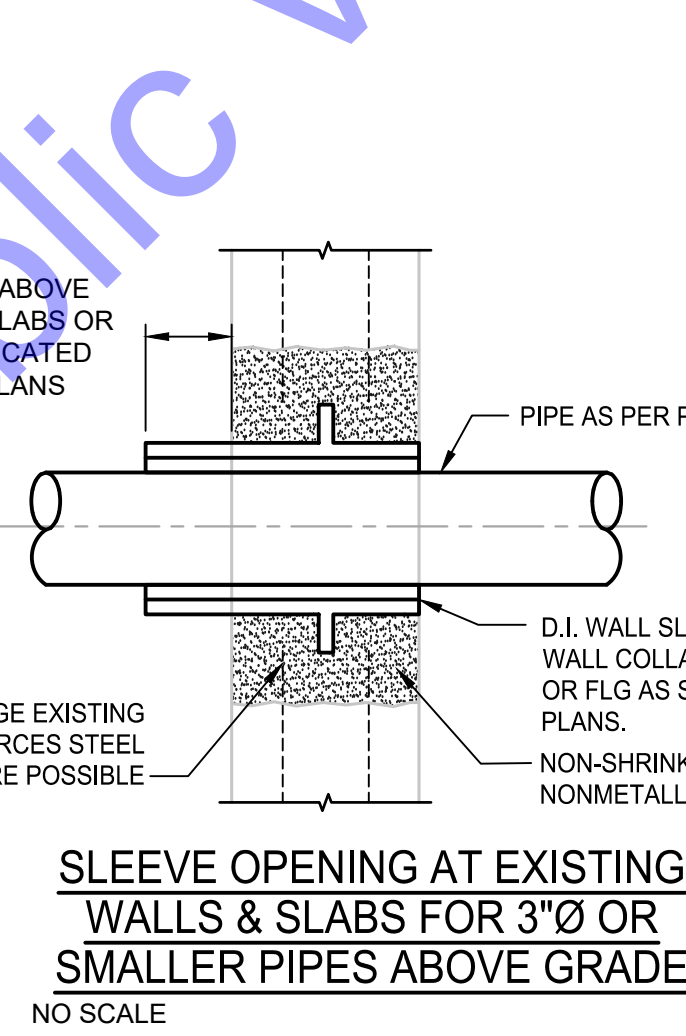
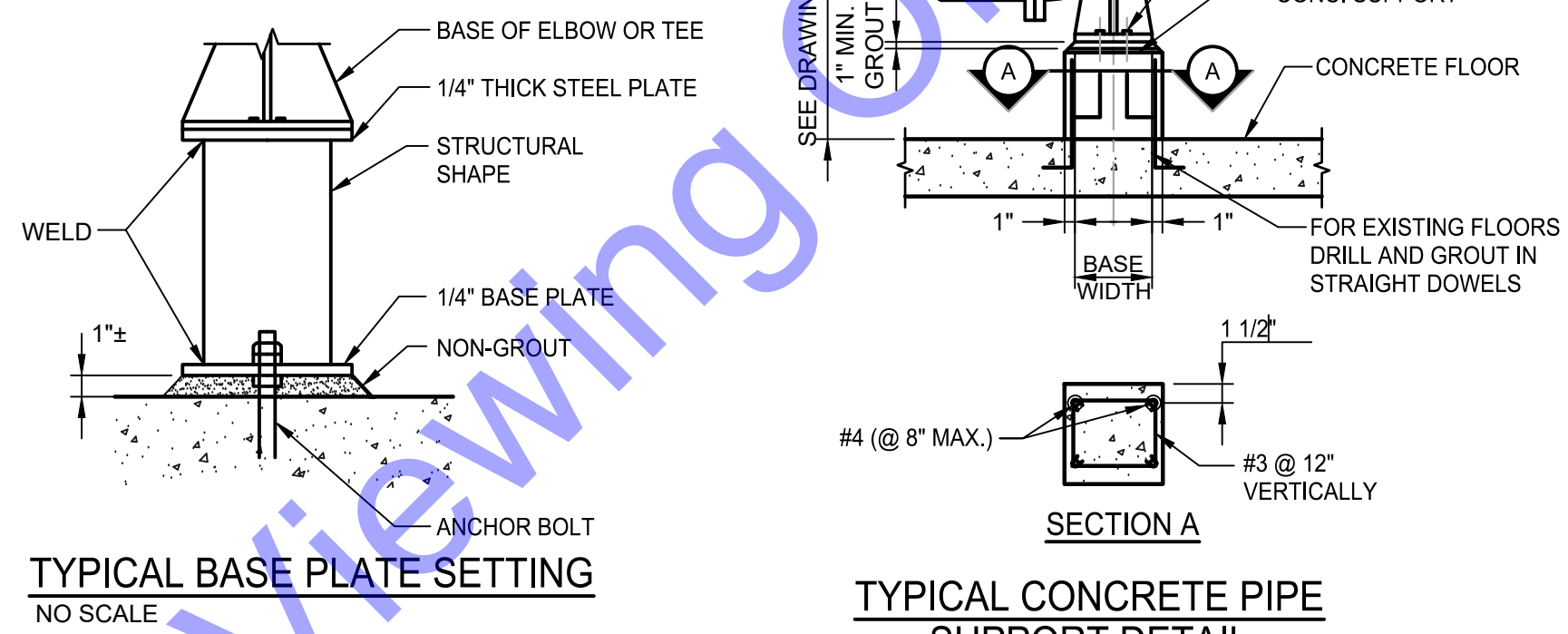
LINK-SEAL WITH CORE DRILLED HOLE DETAIL
NO SCALE



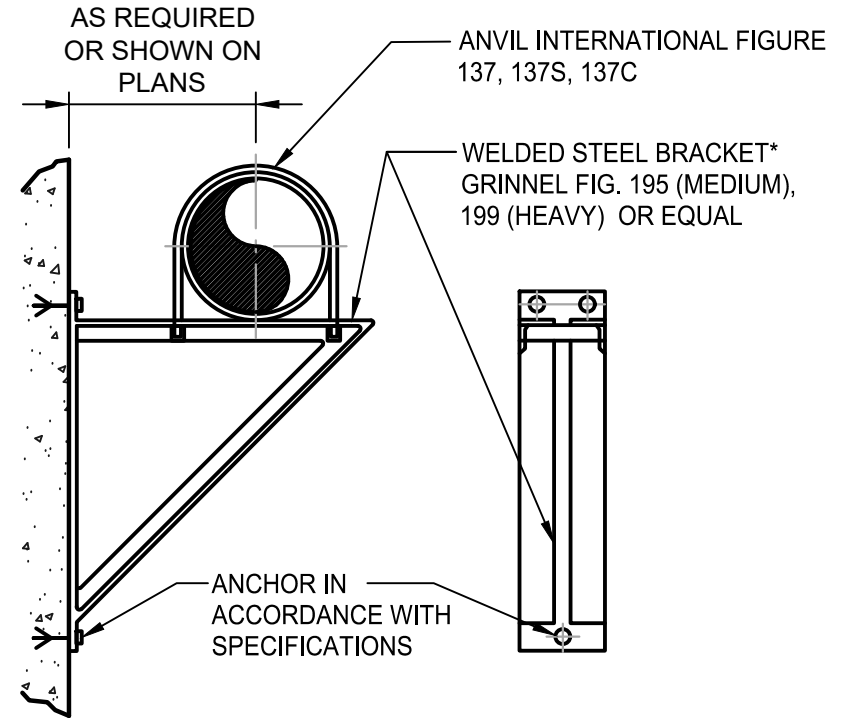
OFFSET TYPE PIPE CLAMP DETAIL
NO SCALE



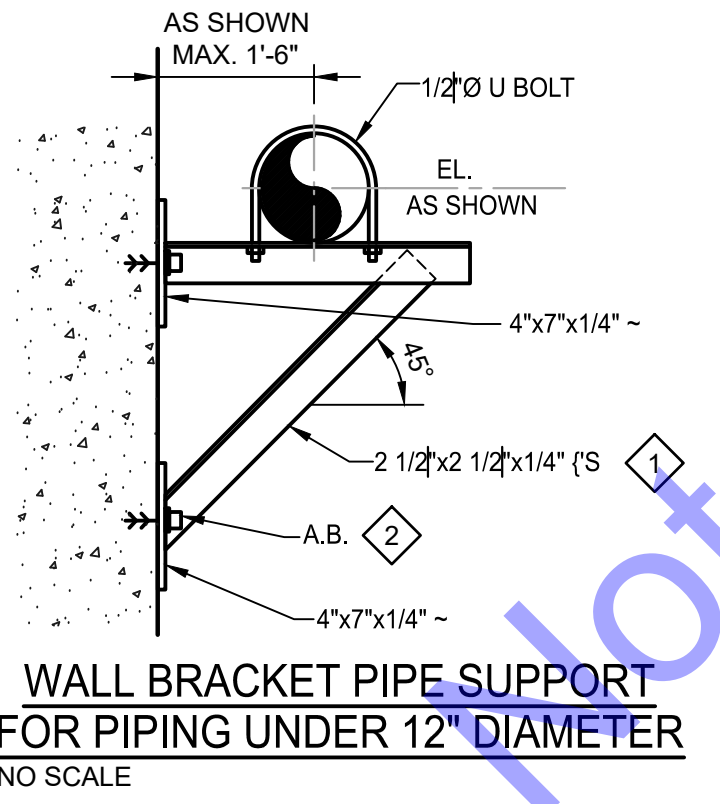
CLAMP TYPE SUPPORT FOR PIPING UNDER 4" DIA.
NO SCALE



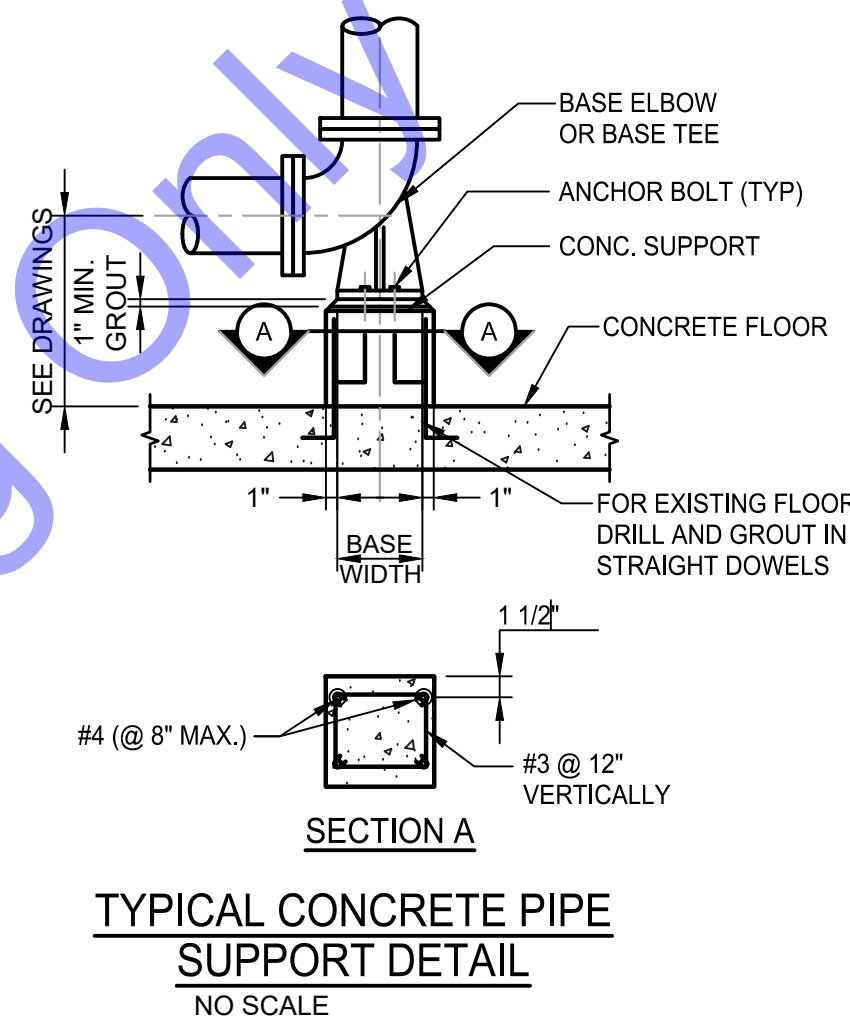
SLEEVE OPENING AT EXISTING WALLS & SLABS FOR 3" OR SMALLER PIPES ABOVE GRADE
NO SCALE



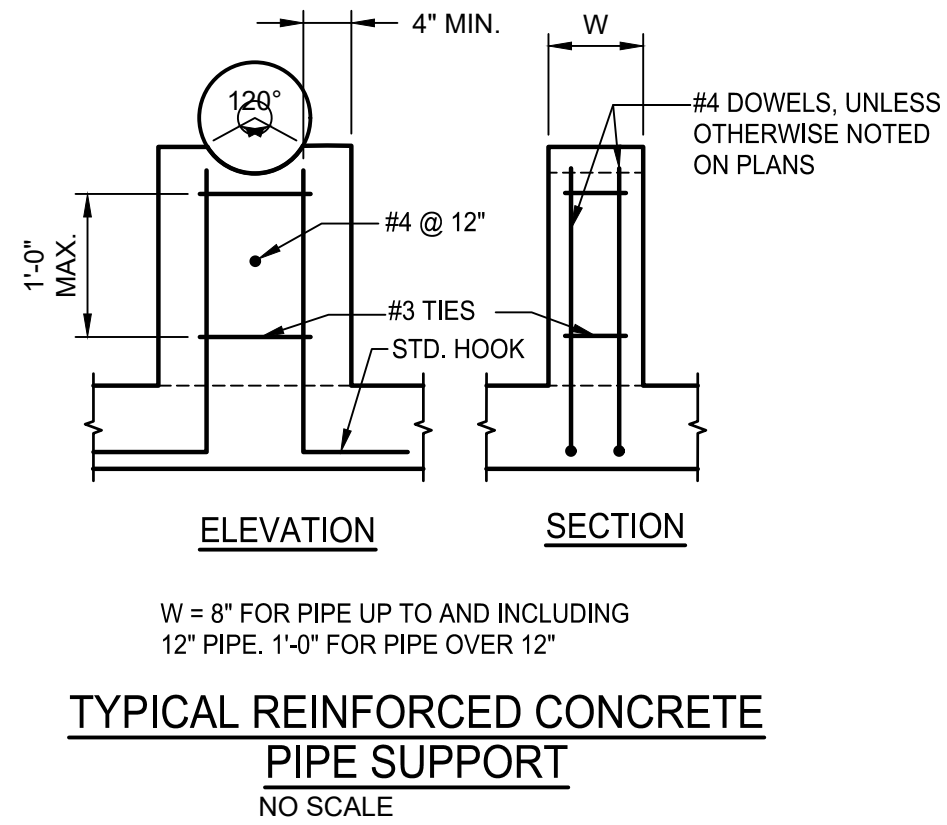
BRACKET TYPE PIPE SUPPORT FOR PIPING 1/2" TO 24"
NO SCALE



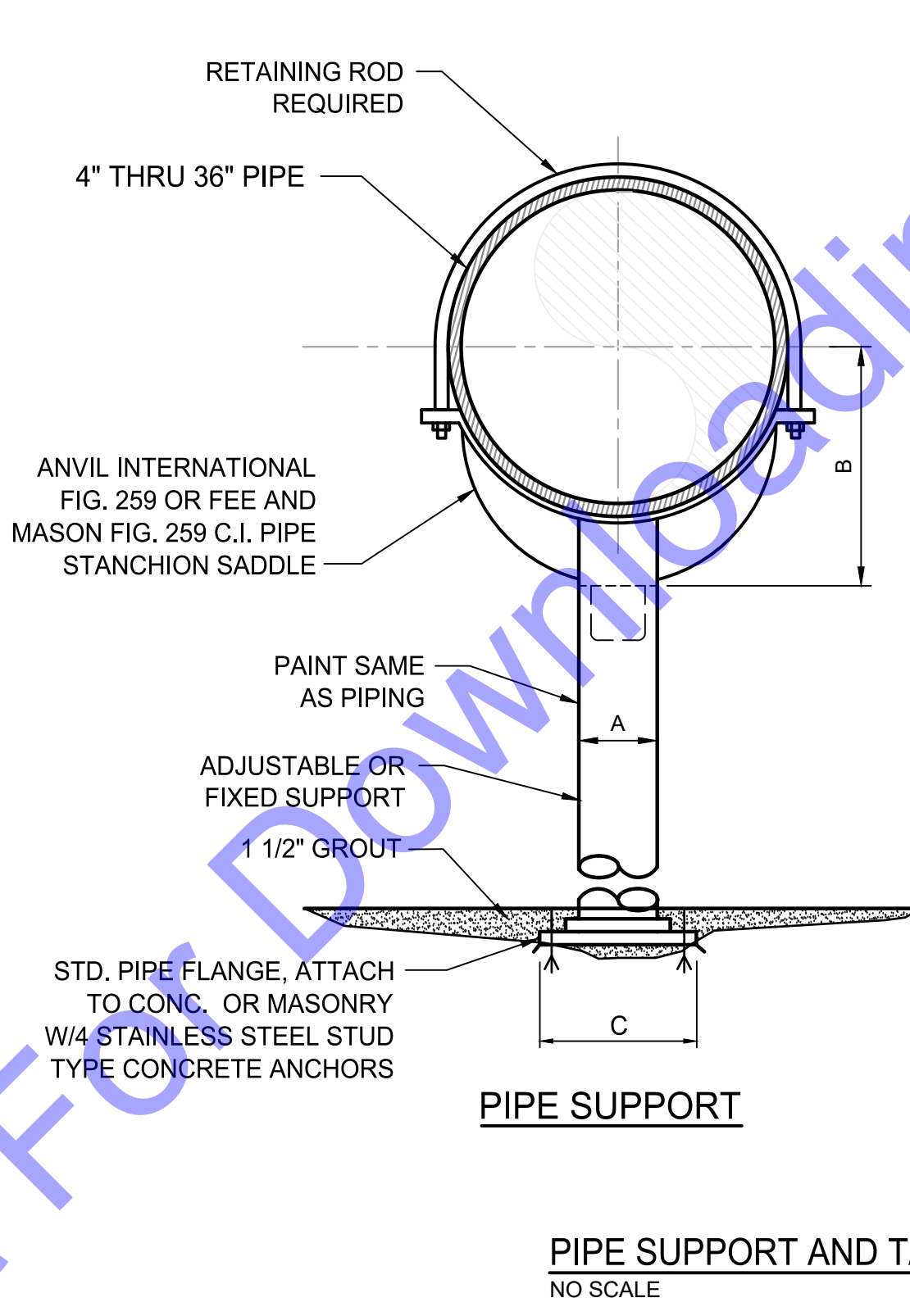
WALL BRACKET PIPE SUPPORT FOR PIPING UNDER 12" DIAMETER
NO SCALE



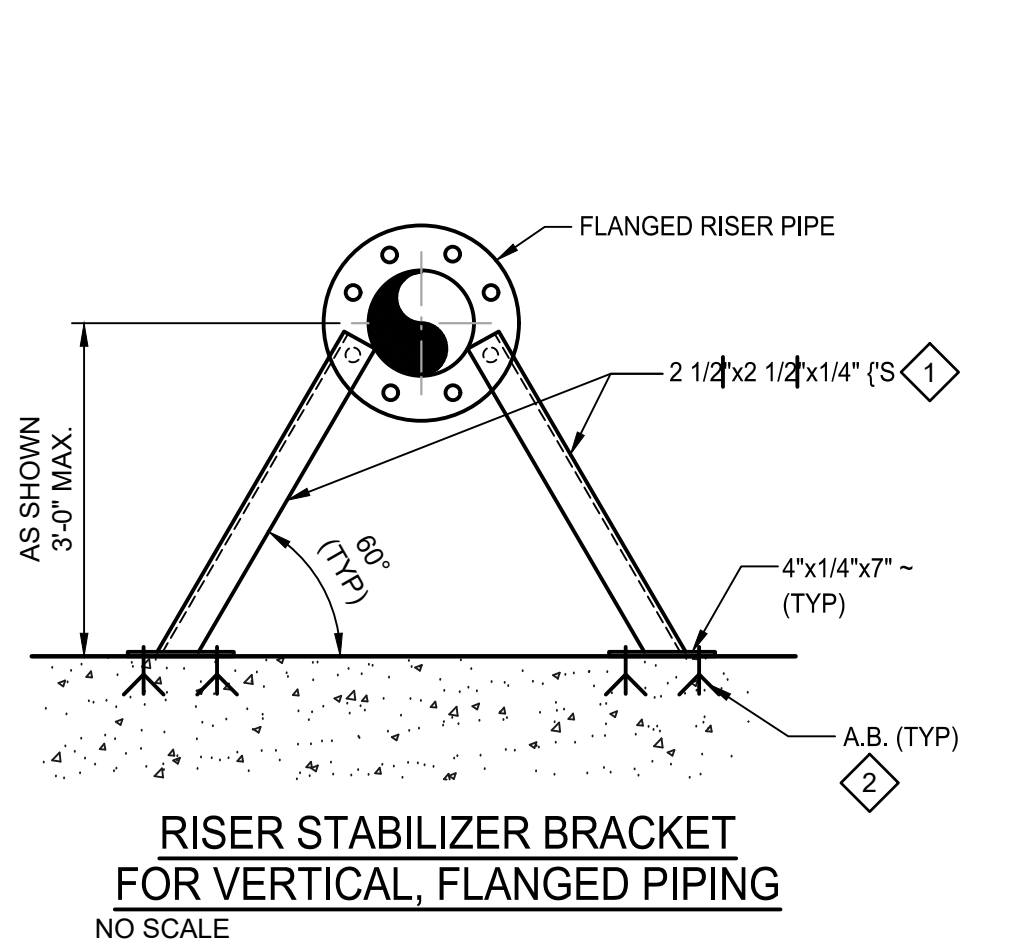
TYPICAL CONCRETE PIPE SUPPORT DETAIL
NO SCALE



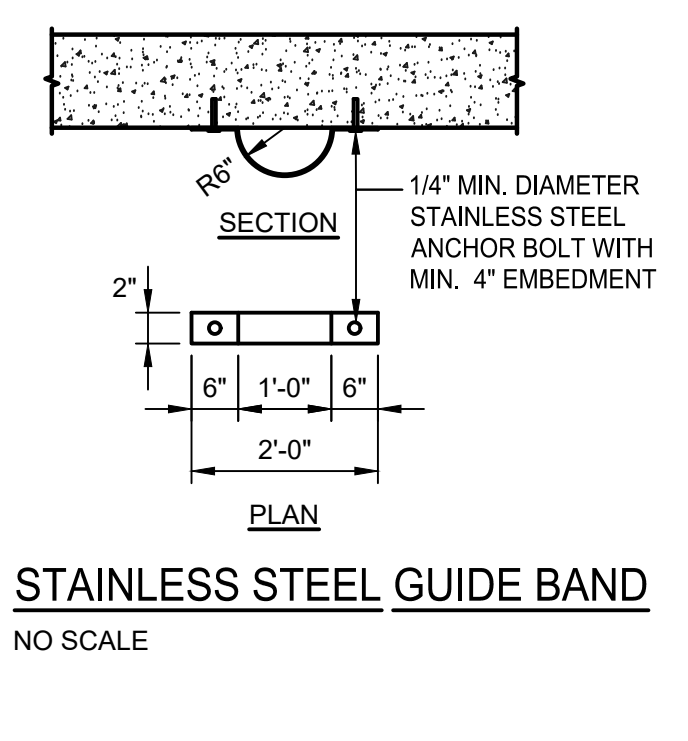
TYPICAL REINFORCED CONCRETE PIPE SUPPORT
NO SCALE



PIPE SUPPORT AND TABLE DETAIL
NO SCALE



RISER STABILIZER BRACKET FOR VERTICAL, FLANGED PIPING
NO SCALE

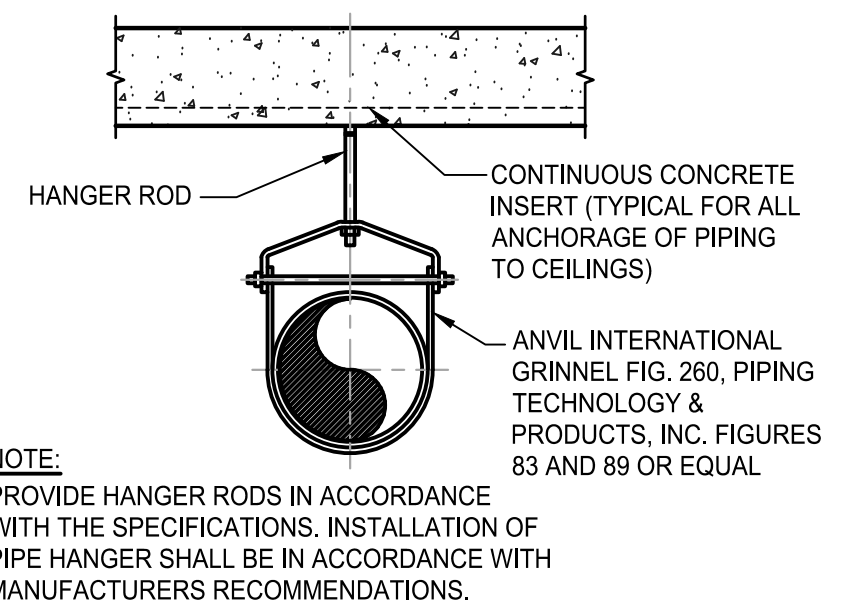


STAINLESS STEEL GUIDE BAND
NO SCALE

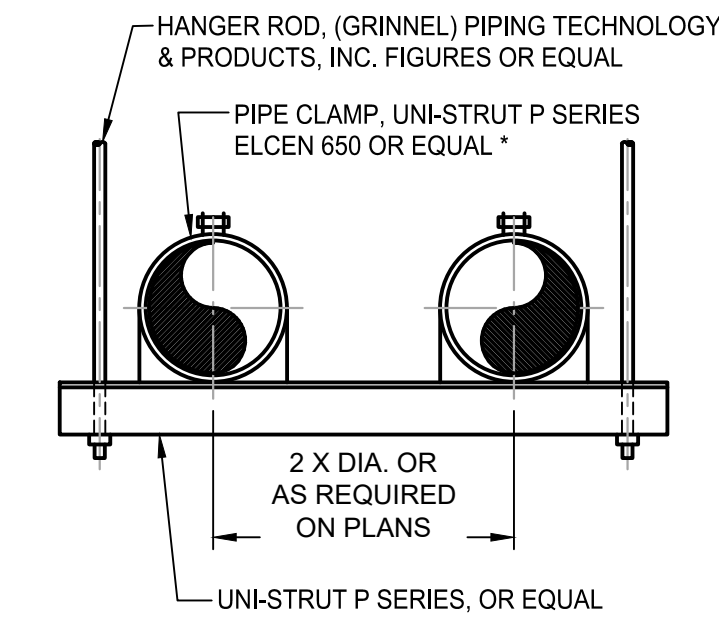
DIMENSION TABLE

PIPE SIZE	A	B	C
4"	3"	4-3/16"	9"
5"	3"	4-13/16"	9"
6"	3"	5-7/16"	9"
8"	3"	6-15/16"	9"
10"	3"	8-7/16"	9"
12"	3"	9-15/16"	9"
14"	4"	10-15/16"	11"
16"	4"	12-3/8"	11"
18"	4"	13-7/8"	11"
20"	6"	15-3/8"	13-1/2"
22"	6"	16-5/8"	13-1/2"
24"	6"	17-15/16"	13-1/2"
26"	6"	19-1/8"	13-1/2"
30"	6"	21-5/16"	13-1/2"
32"	6"	22-1/2"	13-1/2"
36"	8"	24-1/2"	16"

- NOTES:
- PROVIDE HALF ROUND RIGID INSULATION AND INSULATION PROTECTION SHIELD, SIMILAR TO GRINNELL FIG. 167 OR ELCEN FIG. 219, WHERE PIPING IS INSULATED
 - PROVIDE NEOPRENE WAFFLE INSULATION PAD, SIMILAR TO MASON TYPE "W" OR KORKFUND KORPAD 40 UNDER SUPPORT FOOT WHEN PIPING IS ISOLATED OR SUPPORT IS ADJACENT TO MECHANICAL EQUIPMENT.
 - FOR BASE HEIGHT AND FLANGE DIMENSIONS, SEE TABLE



ADJUSTABLE CLEVIS PIPE HANGER DETAIL
NO SCALE



TRAPEZE TYPE PIPE HANGER DETAIL FOR PIPING AND CONDUIT 3/8" TO 8"
NO SCALE

GENERAL NOTES FOR FABRICATIONS THIS SHEET

- MISCELLANEOUS FABRICATIONS SHALL BE WELDED CONSTRUCTION, STEEL OR ALUMINUM, 1/4" THICK, UNLESS NOTED OTHERWISE, WITH CONTINUOUS ALL AROUND 1/4" THICK WELDED CONNECTIONS STEEL SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION, ALUMINUM SHALL BE BITUMINOUS COATED ON SURFACES IN CONTACT WITH CONCRETE OR MASONRY.
- ANCHOR BOLTS SHALL BE HILT, WE-JT OR EQUAL, ANSI 316 STAINLESS STEEL INCLUDING NUTS & WASHERS, ANCHOR BOLTS SHALL 1/2" WITH 4" EMBEDMENT IN CONCRETE, UNLESS NOTED OTHERWISE.
- IF INDICATED ON THE DRAWINGS, PROVIDE ROLLER SUPPORTS AND HANGERS TO SUPPORT AS MANUFACTURED BY PIPE TECHNOLOGY & PRODUCTS INC.

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SOUTH BEND, IN

Professional Engineer
No. 102003330
STATE OF INDIANA
Signature: [Signature]
Date: 01/24/24

CITY OF ROCKPORT
SPENCER COUNTY, INDIANA
WASTEWATER LTCP PHASE 4 PROJECT
DIVISION "A" - WWTP

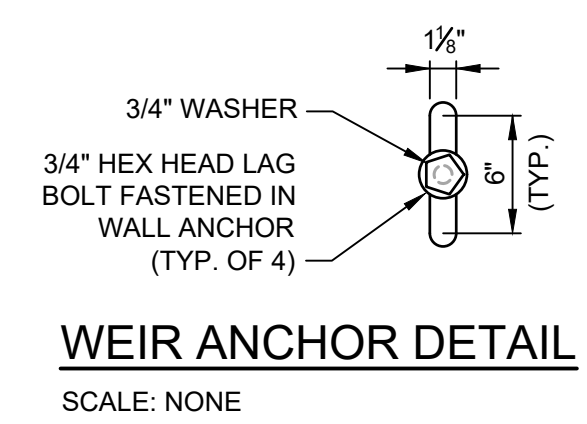
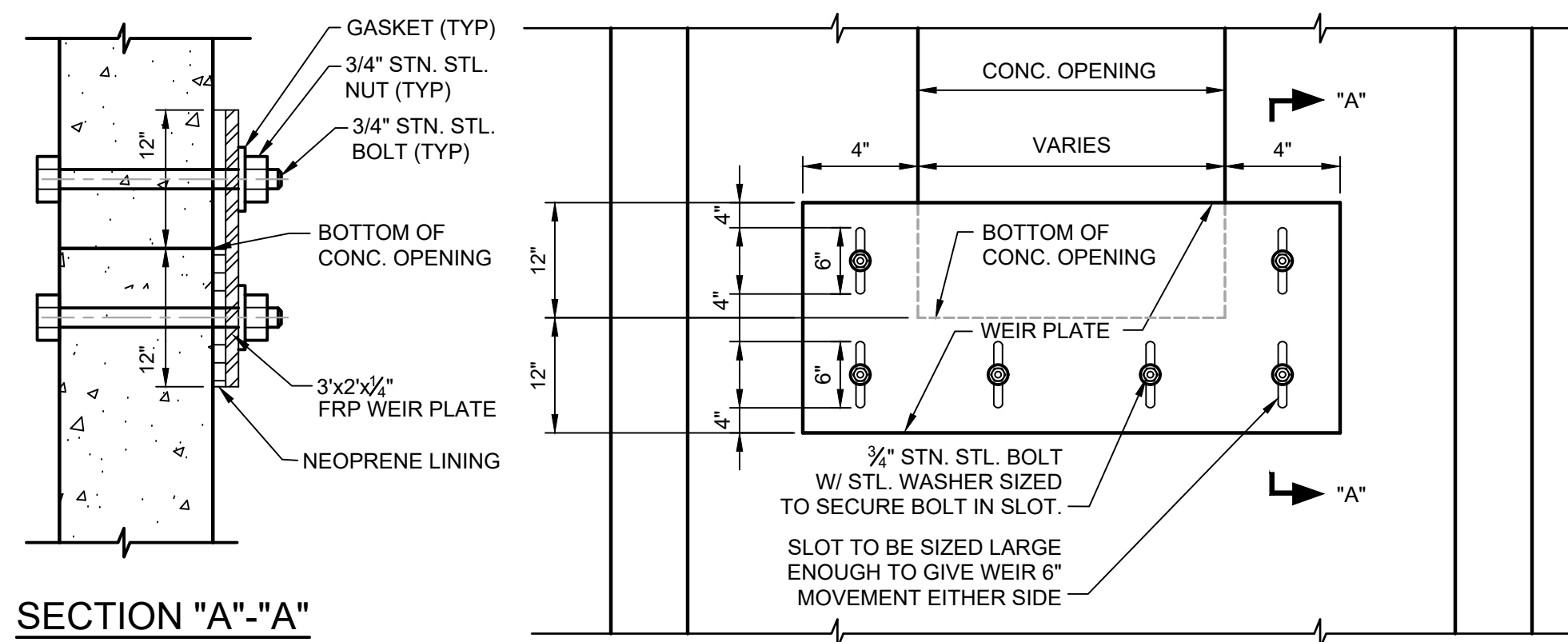
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No.	Submittal / Revision	Date	By

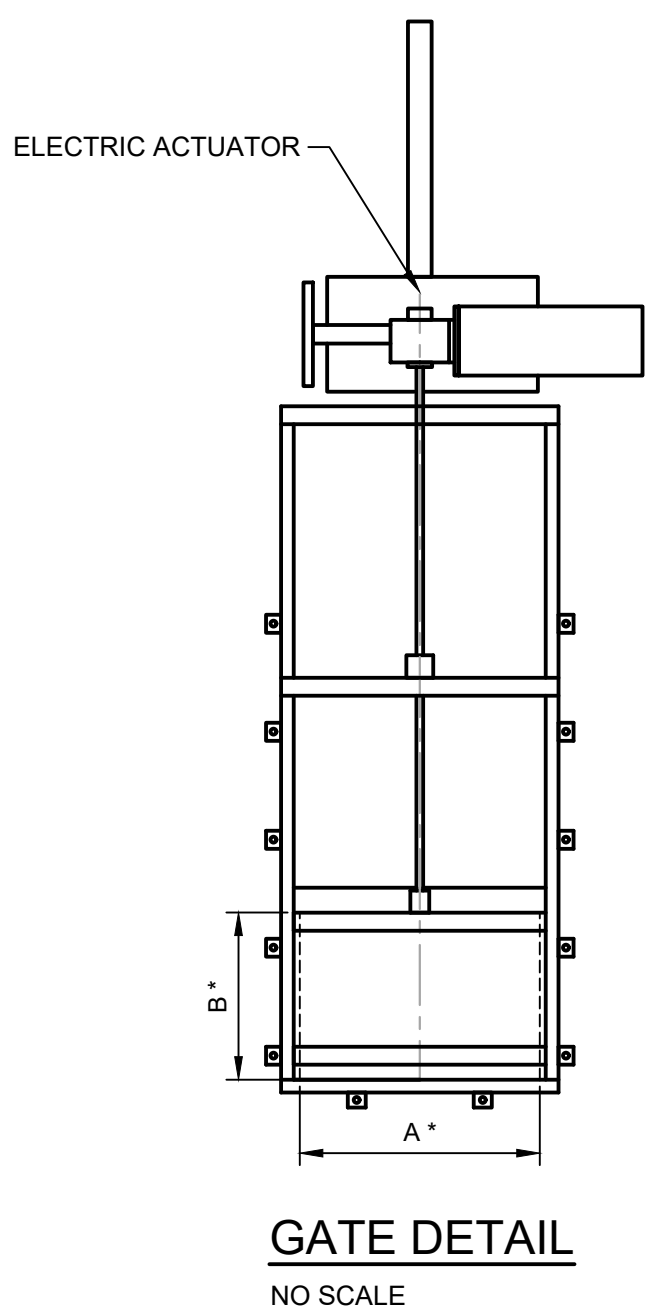
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Issue Date: JAN. 2024	Project No: S20107	Scale: AS SHOWN

MISCELLANEOUS DETAILS

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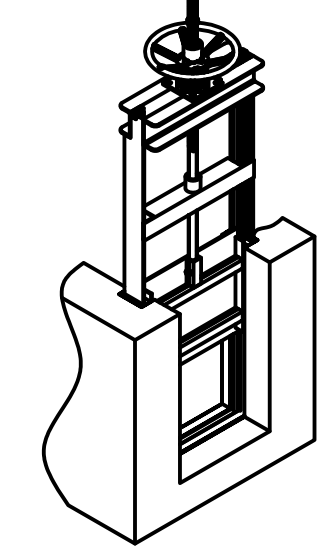


GATE SCHEDULE								
LOCATION	SYMBOL	GATE TYPE	GATE SIZE		MOUNTING TYPE	DRAWING No.	ACTUATOR TYPE	NUMBER OF GATES
			"A"	"B"				
SCREENING STRUCTURE		SLIDE	48"	36"	EMBEDDED	D2-05	MANUAL	4

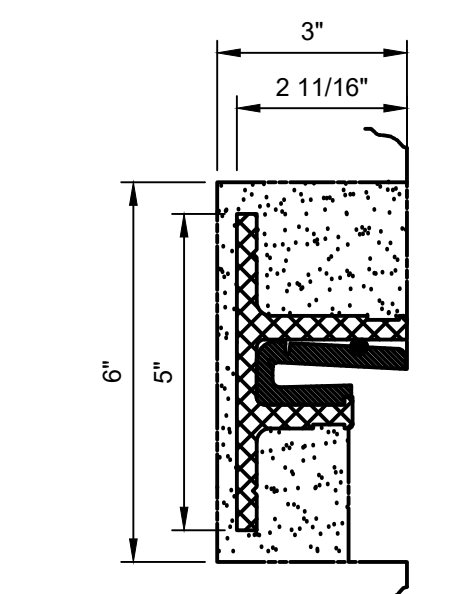


GATE DIMENSIONS		
TAG	DIMENSION	DESCRIPTION
A		OPENING CLEAR WIDTH
B		GATE PLATE HEIGHT/MAX. HEAD
C		DISTANCE FROM FLOOR LEVEL TO CHANNEL/OPENING INVERT

WEIR PLATE DETAIL NO SCALE

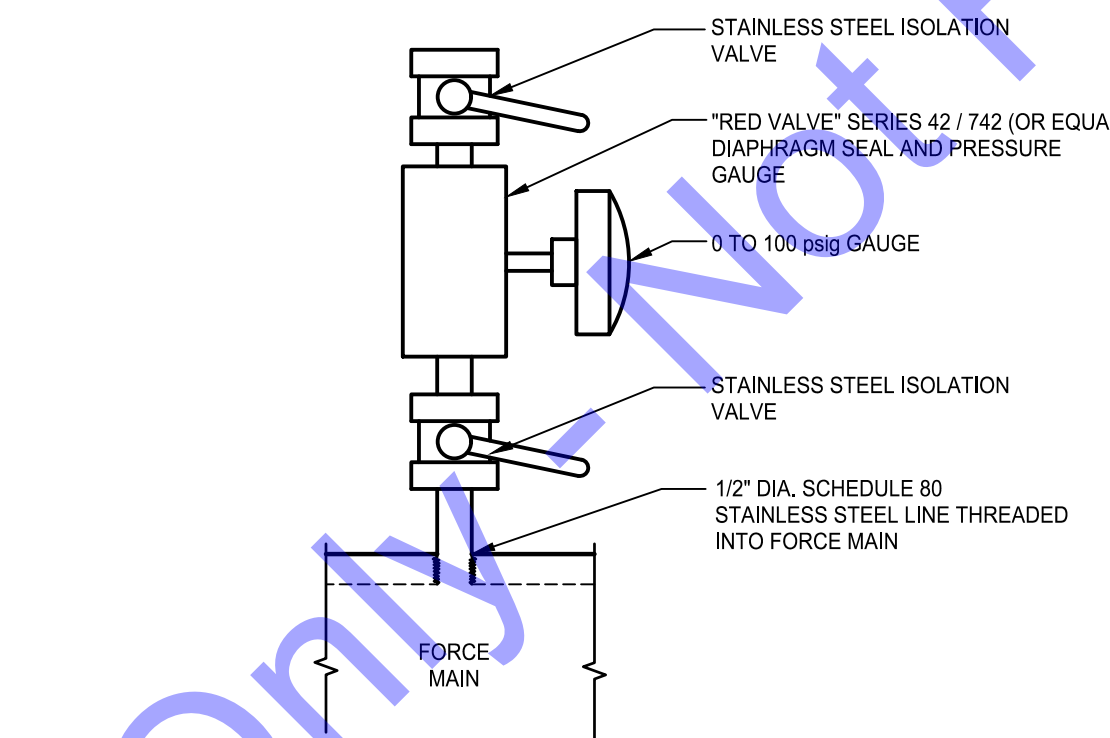


SELF CONTAINED BS1015 W/ HANDWHEEL

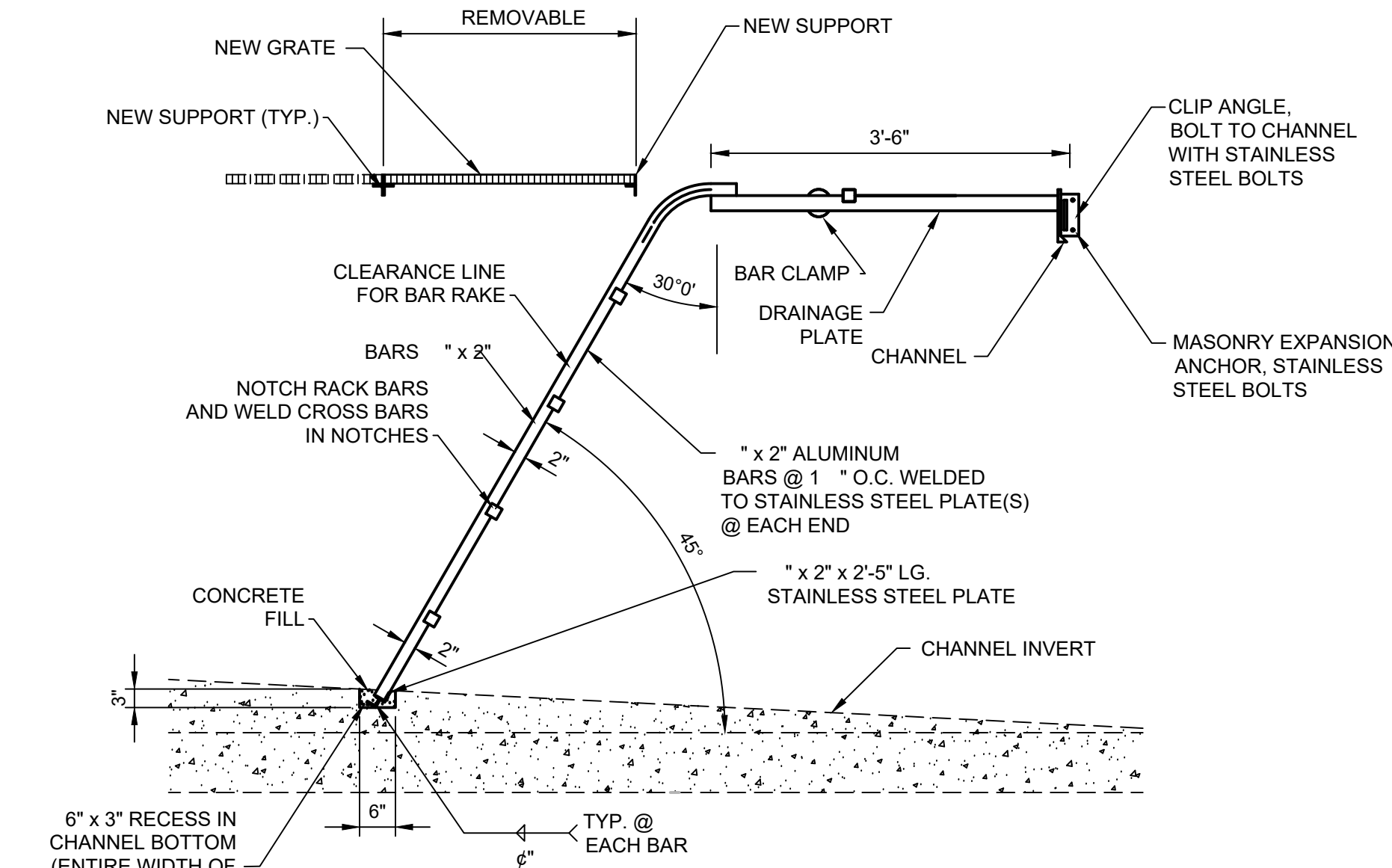


SECTION A-A NO SCALE

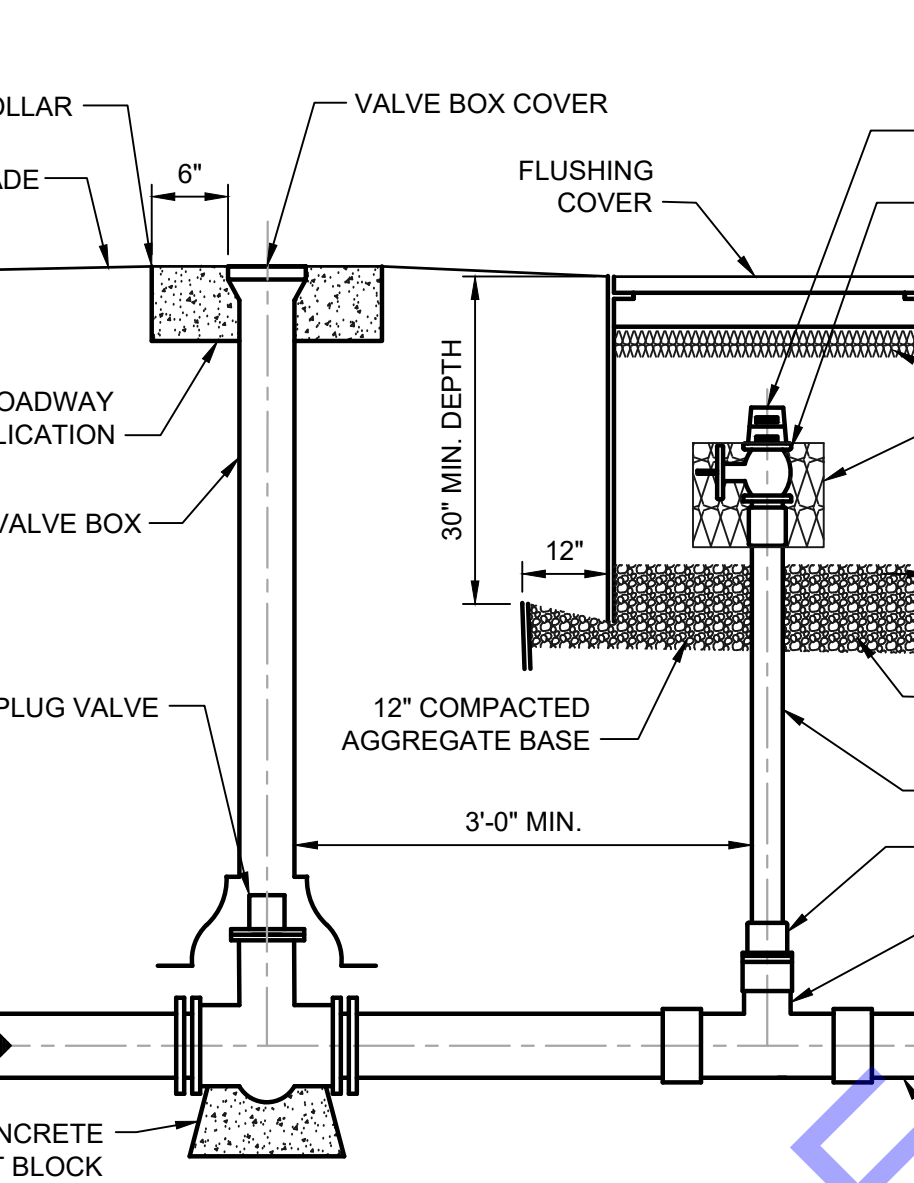
BURIED PLUG/GATE VALVE AND BOX DETAIL NO SCALE



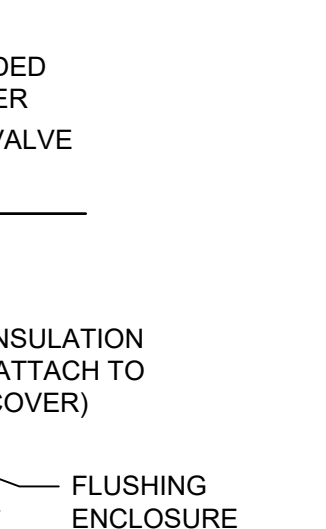
VALVE FLOOR BOX WITH COVER DETAIL NO SCALE



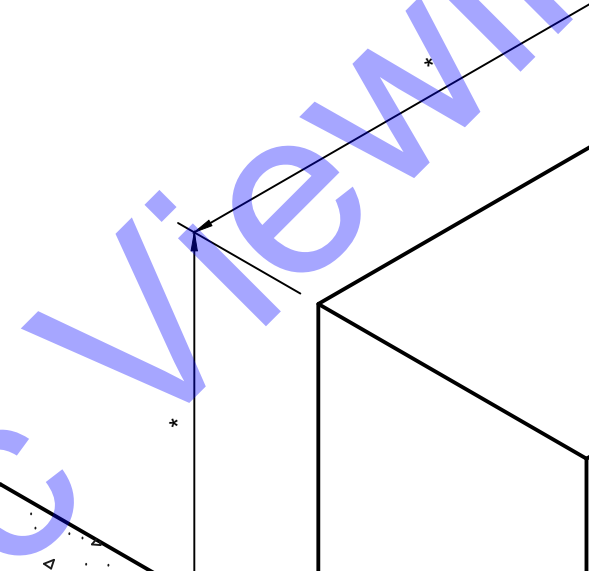
OPEN CHANNEL EMBEDDED MOUNT NO SCALE



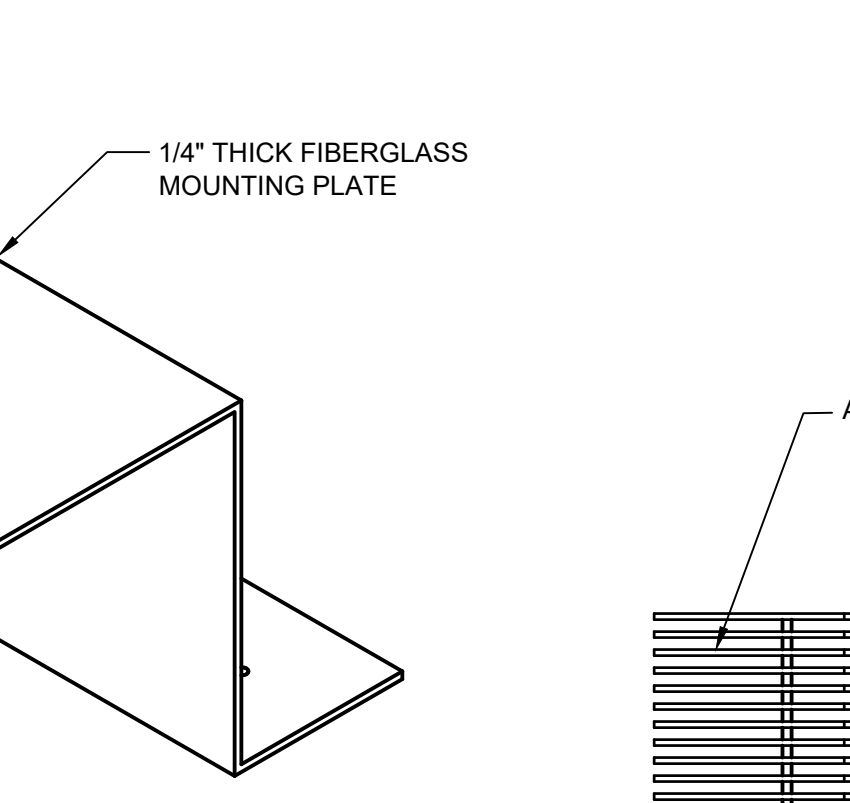
NON-SELF CONTAINED BS1015 W/ HANDWHEEL



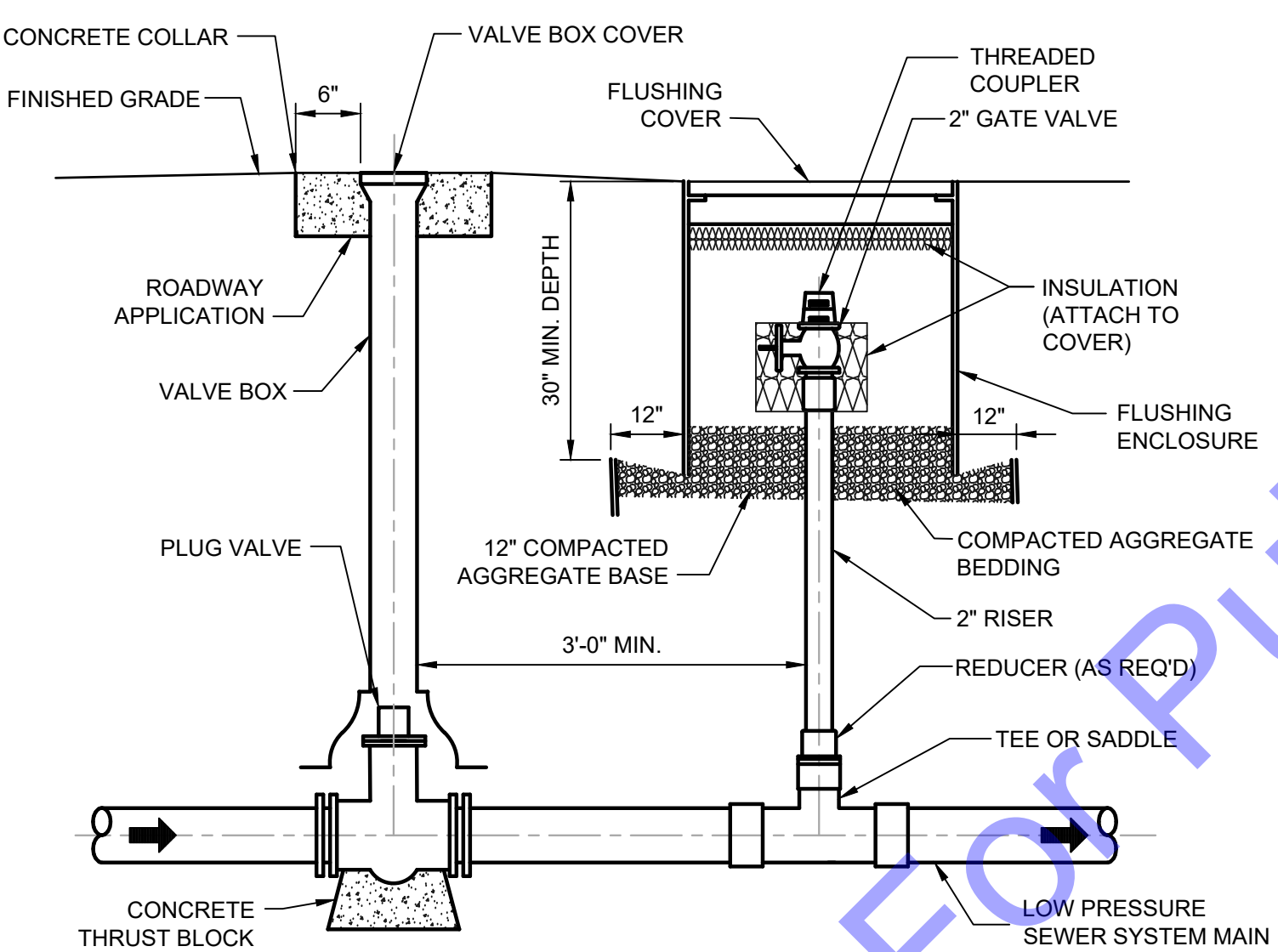
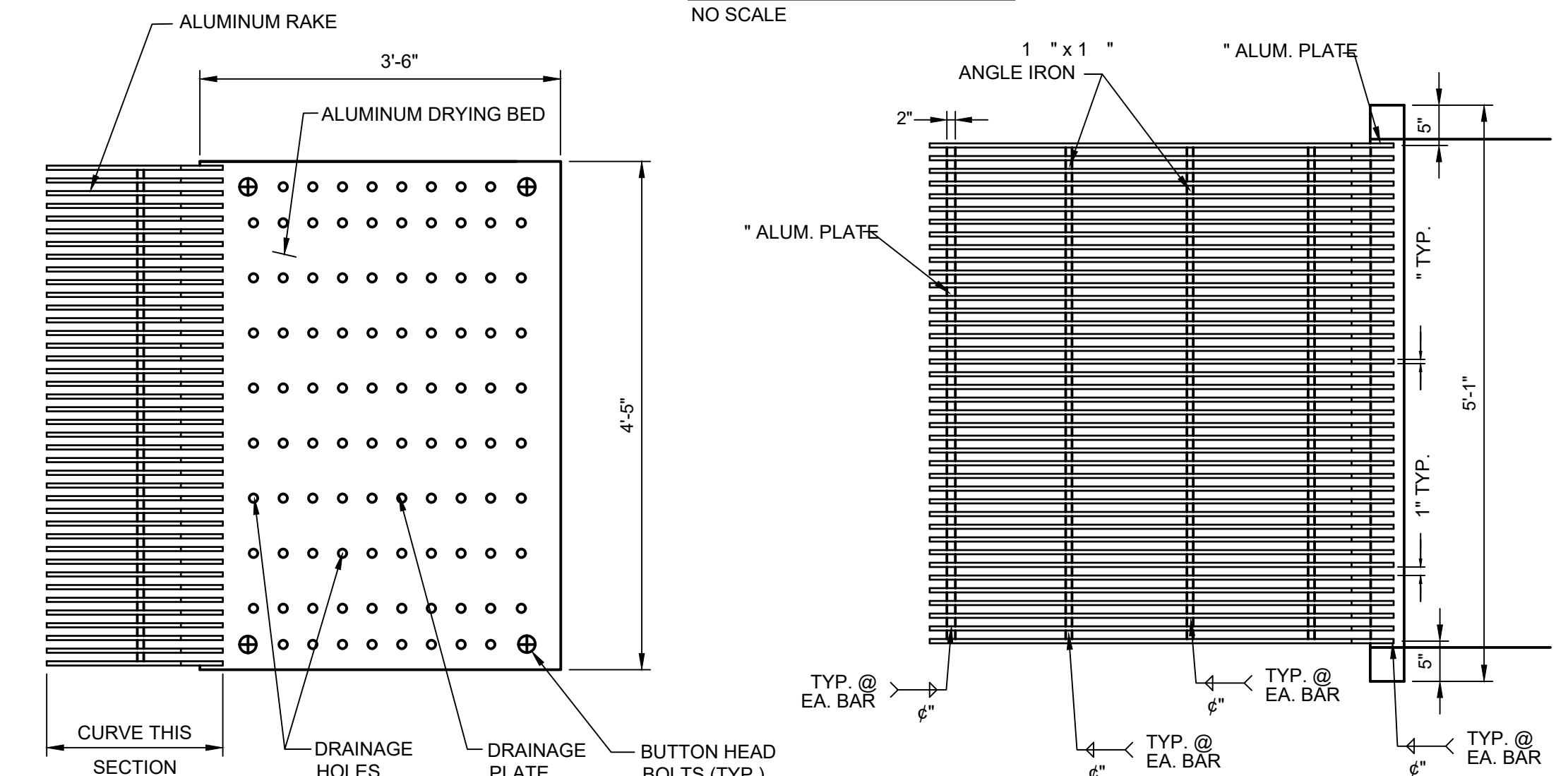
SECTION B-B NO SCALE



PRESSURE GAUGE DETAIL NO SCALE

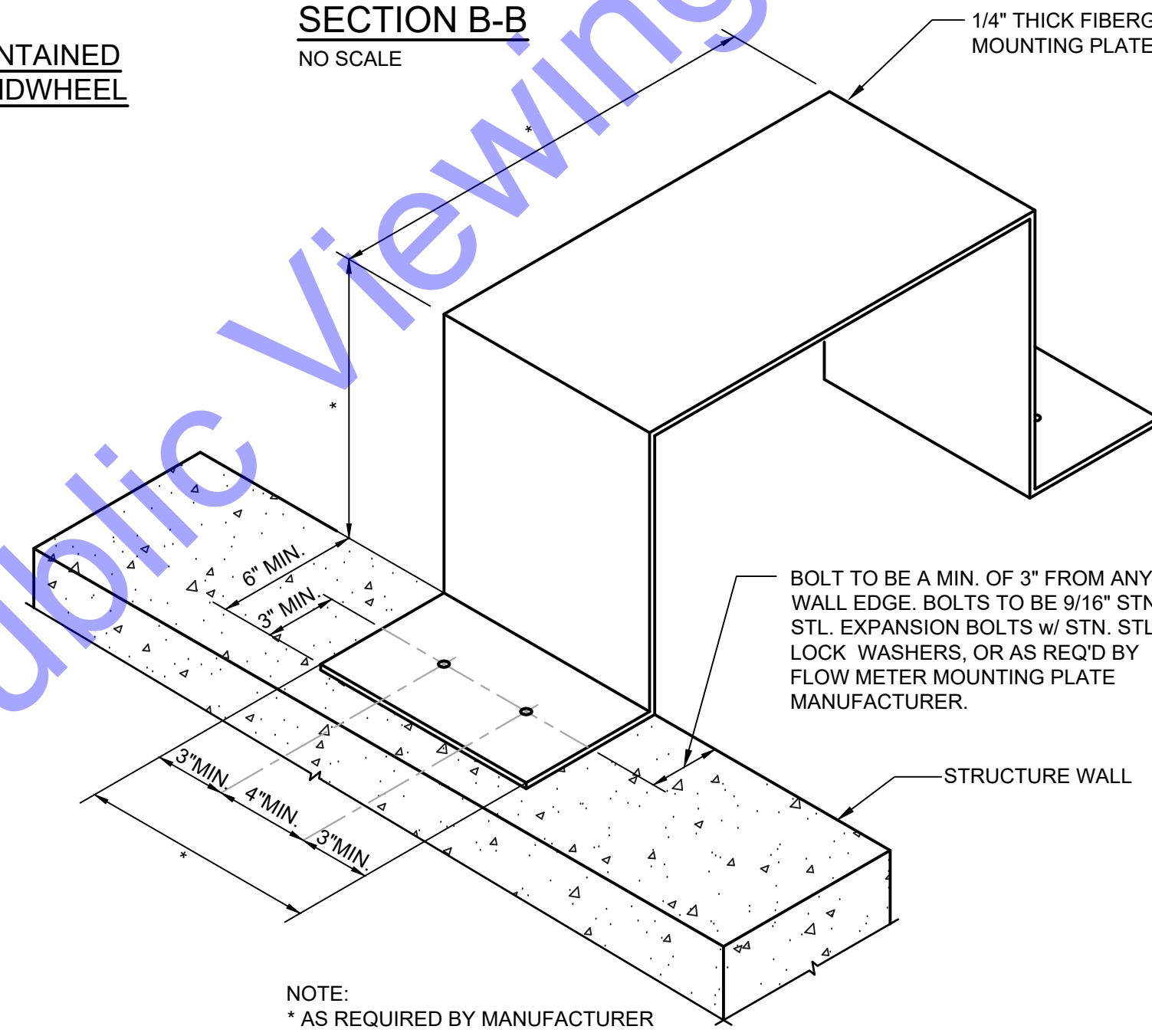


BAR RACK DETAIL NO SCALE



FLUSHING CONNECTIONS AND PLUG VALVES NO SCALE

FLOW METER MOUNTING PLATE DETAIL NO SCALE



DRAINAGE PLATE DETAIL NO SCALE

BAR RACK PLAN NO SCALE

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Professional Engineer
 No. 10200330
 STATE OF INDIANA
 Signature: [Signature] Date: 01/24/24

**CITY OF ROCKPORT
 SPENCER COUNTY, INDIANA
 WASTEWATER LTCP PHASE 4
 PROJECT
 DIVISION "A" - WWTP**

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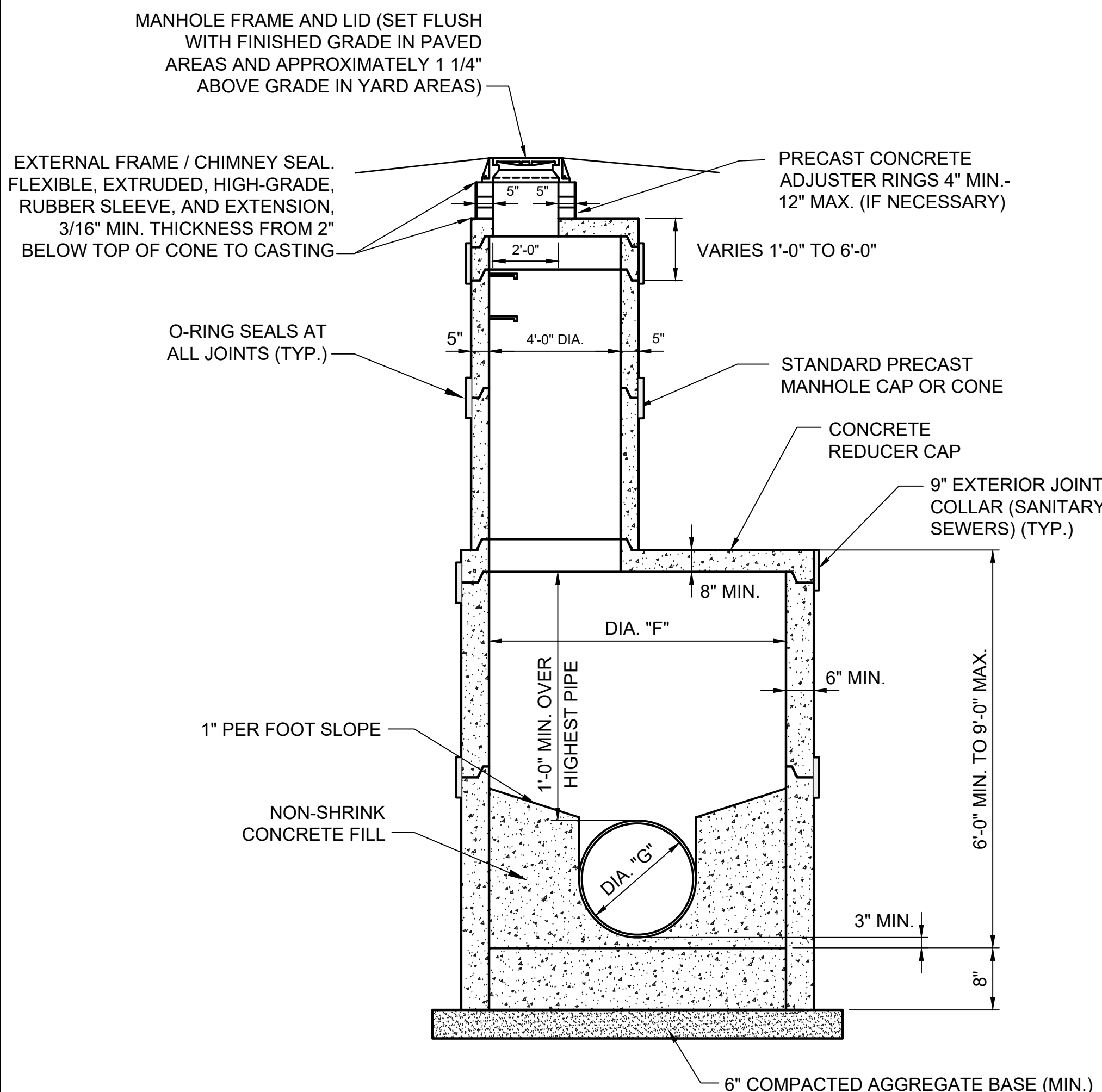
Date	By	Submitted / Revision

Designed By: JE	Drawn By: DAN	Checked By: EP
Issue Date: JAN. 2024	Project No: S20107	Scale: AS SHOWN

MISCELLANEOUS DETAILS

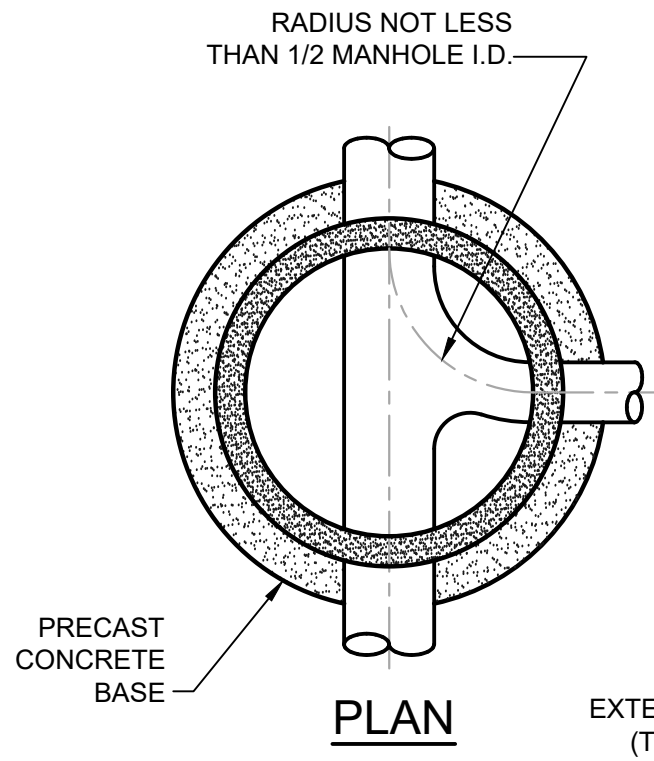
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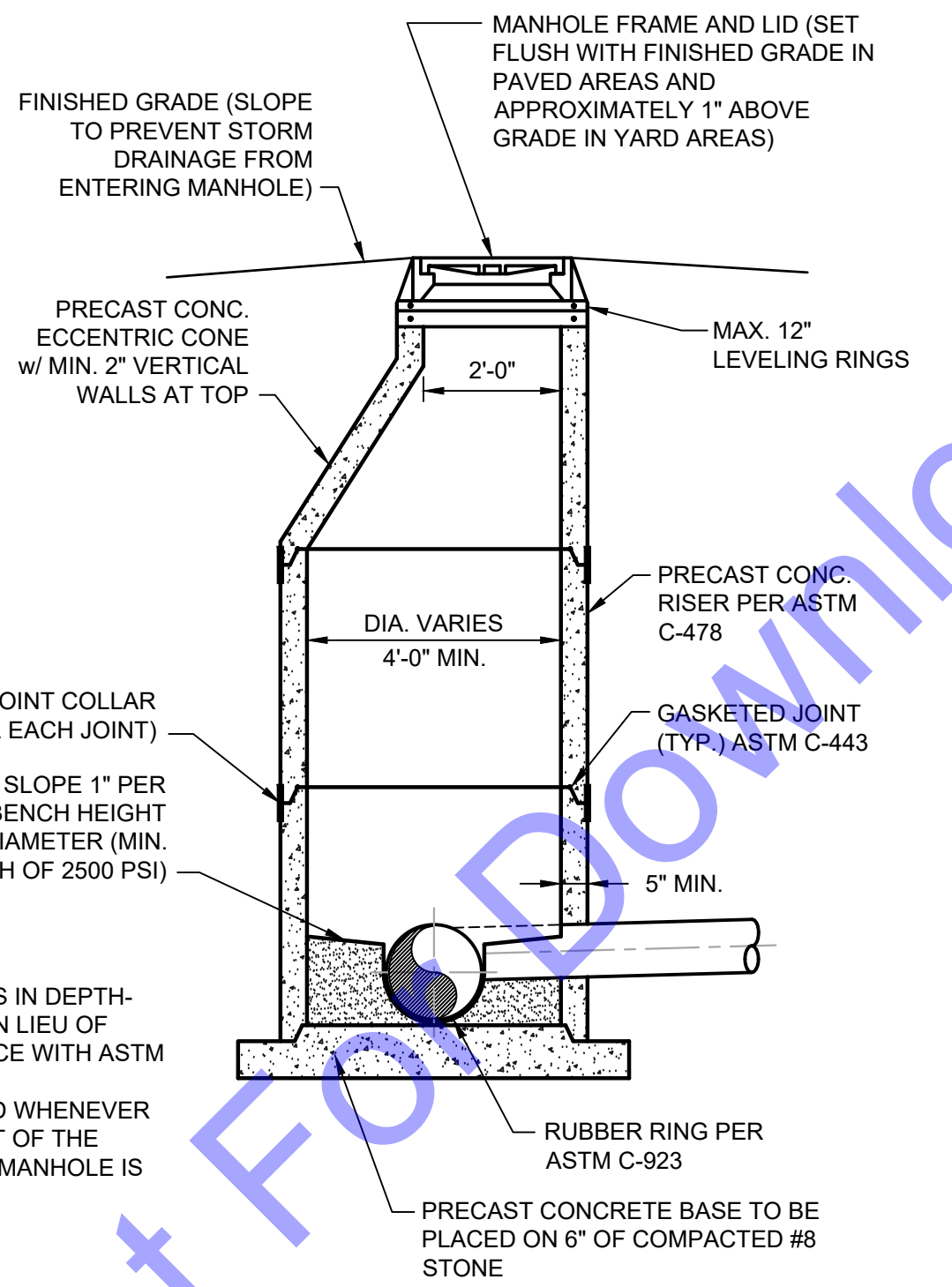
MANHOLE BASE, RISER AND REDUCER CAP FOR PIPES 24" THRU 96"
SCALE: N.T.S.

MANHOLE PIPE SIZES				
TYPE	DIA. "G"	DIA. "F"	MAXIMUM PIPE SIZE RIGHT ANGLE TO MAINLINE (INCHES)	MAXIMUM PIPE SIZE FOR MAINLINE (INCHES)
J	24" TO 36"	5'-0"	30"	36"
K	36" TO 48"	6'-0"	36"	48"
L	48" TO 54"	8'-0"	48"	54"
M	54" TO 72"	8'-6"	66"	72"
N	72" TO 84"	9'-0"	72"	84"
O	84" TO 96"	10'-0"	84"	96"

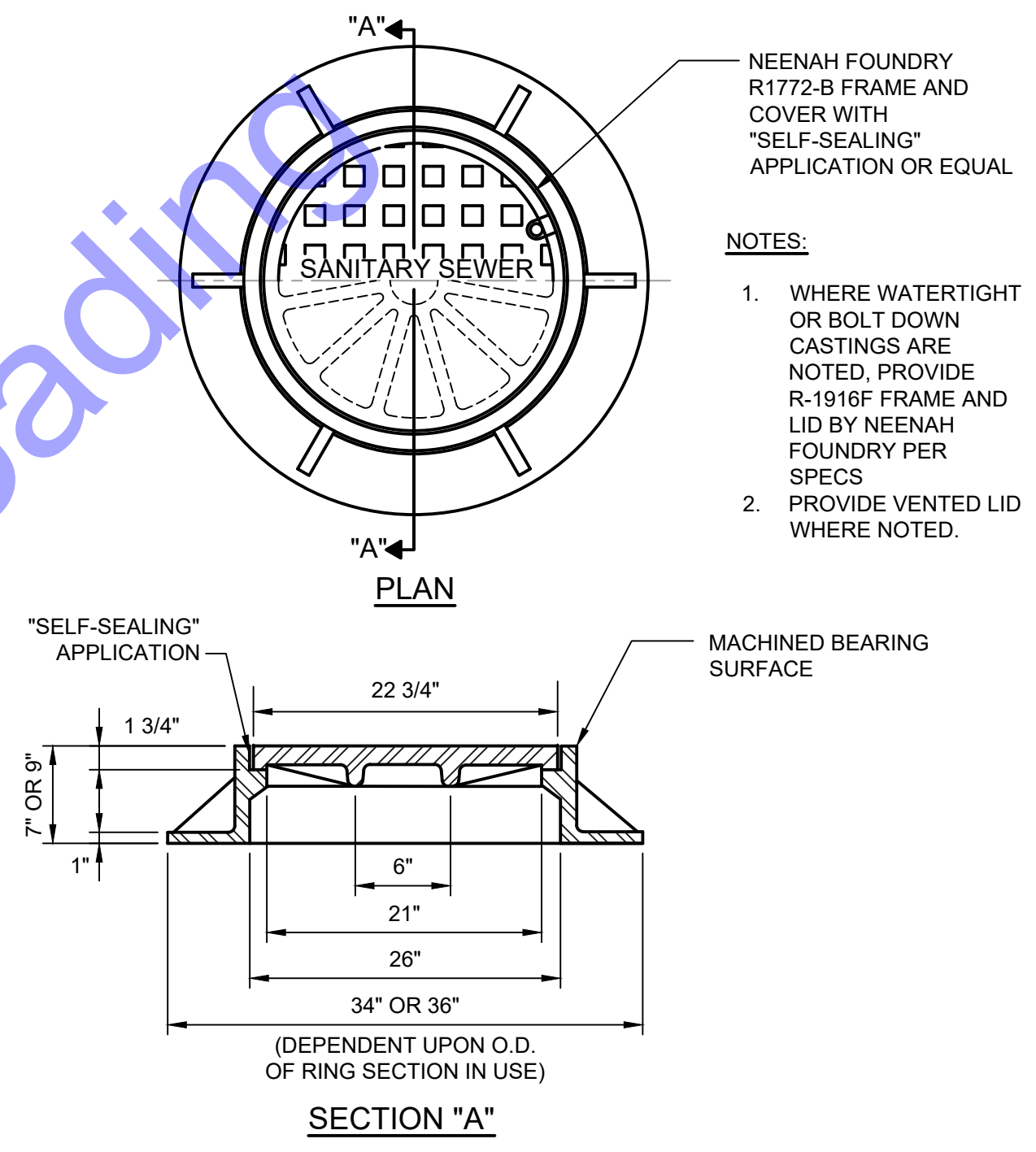


GENERAL NOTES:

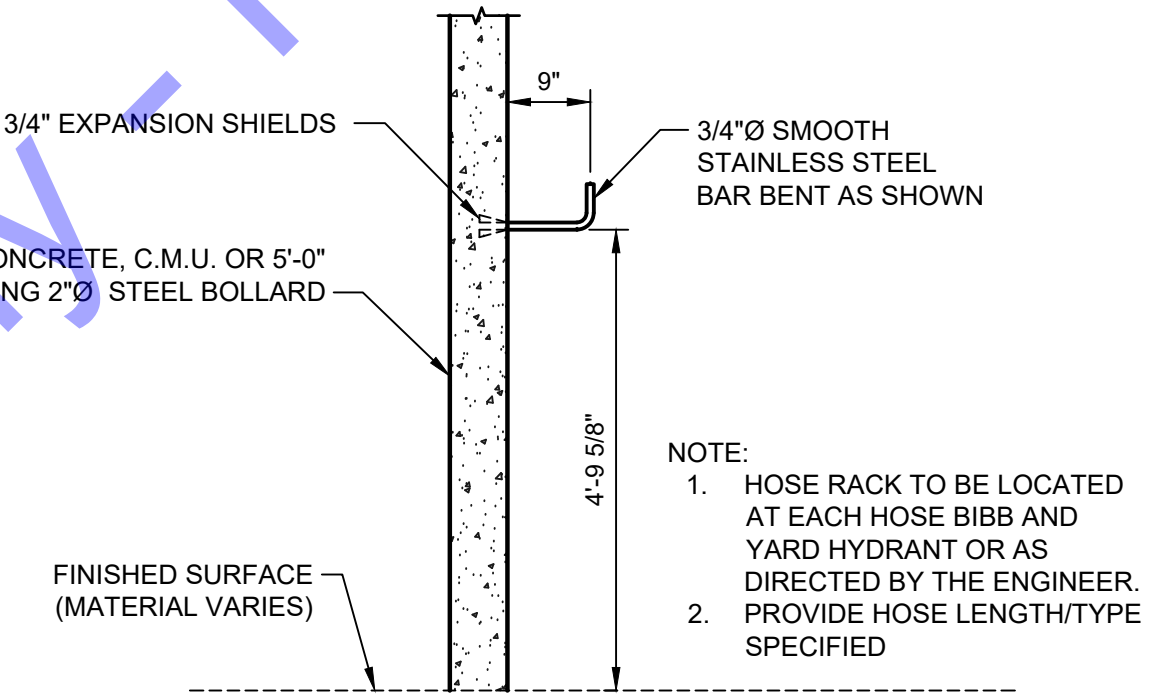
- FOR ALL MANHOLES 6'-0" OR LESS IN DEPTH- PROVIDE RISER WITH FLAT TOP IN LIEU OF ECCENTRIC CONE IN ACCORDANCE WITH ASTM C-478.
- DROP MANHOLES SHALL BE USED WHENEVER THE DISTANCE FROM THE INVERT OF THE INCOMING LINE AND BOTTOM OF MANHOLE IS GREATER THAN TWO FEET.



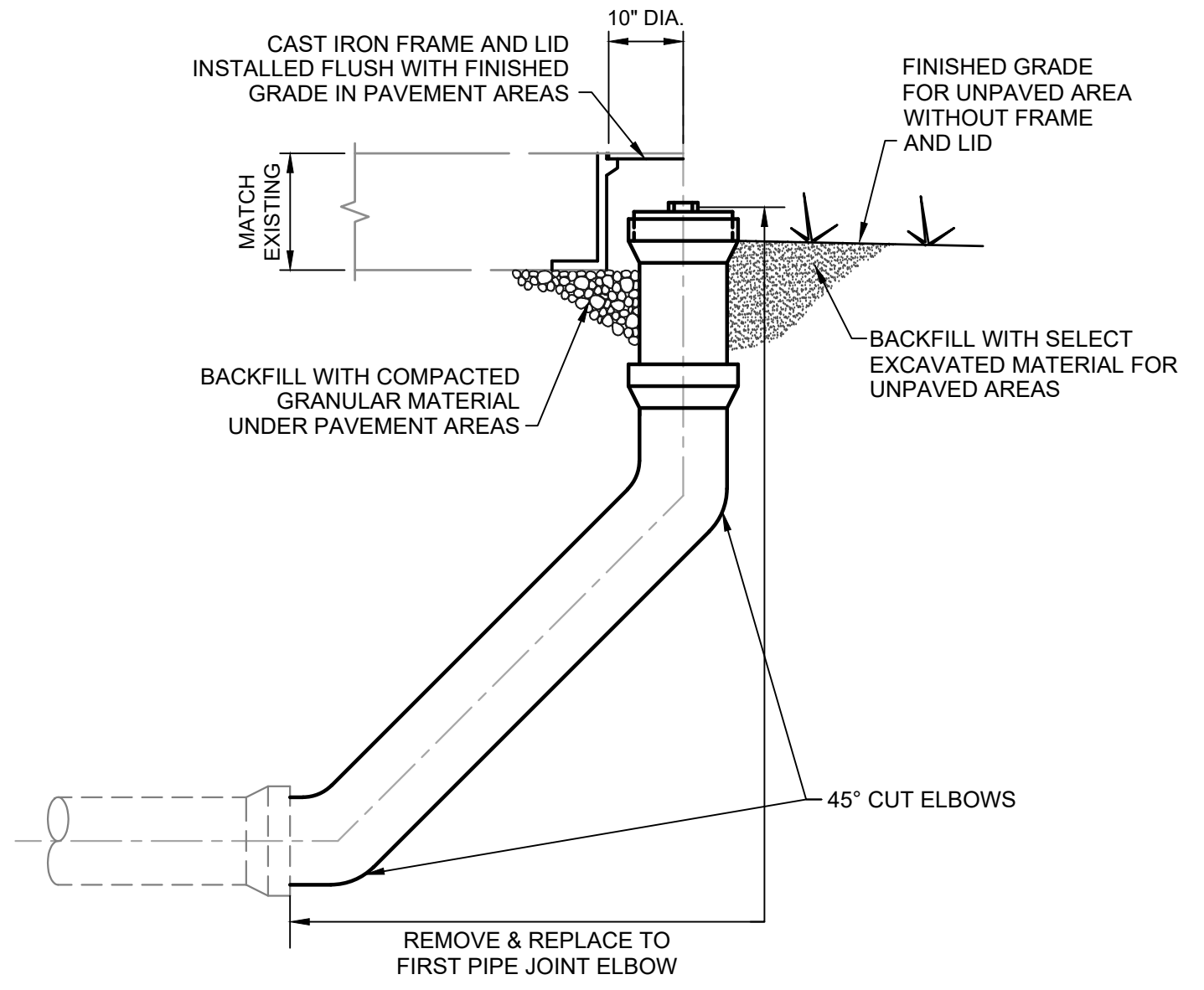
STANDARD SANITARY MANHOLE DETAIL
NO SCALE



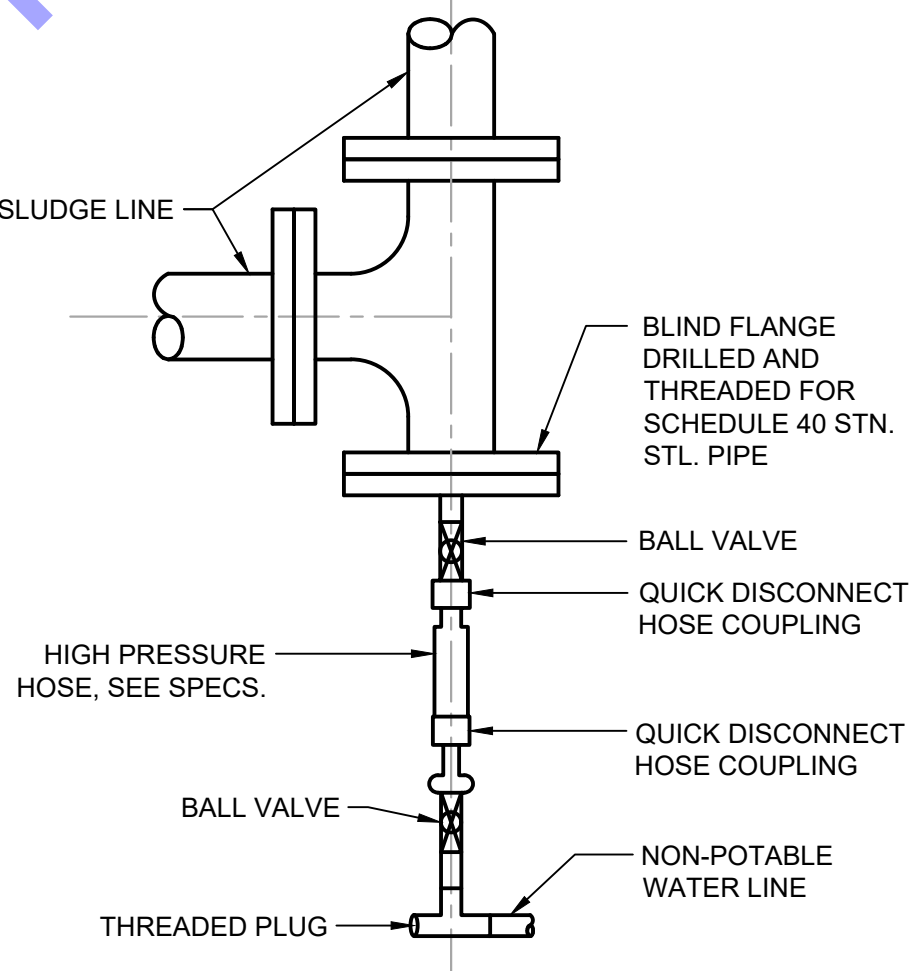
SANITARY SEWER MANHOLE FRAME AND COVER- STANDARD MANHOLE
NO SCALE



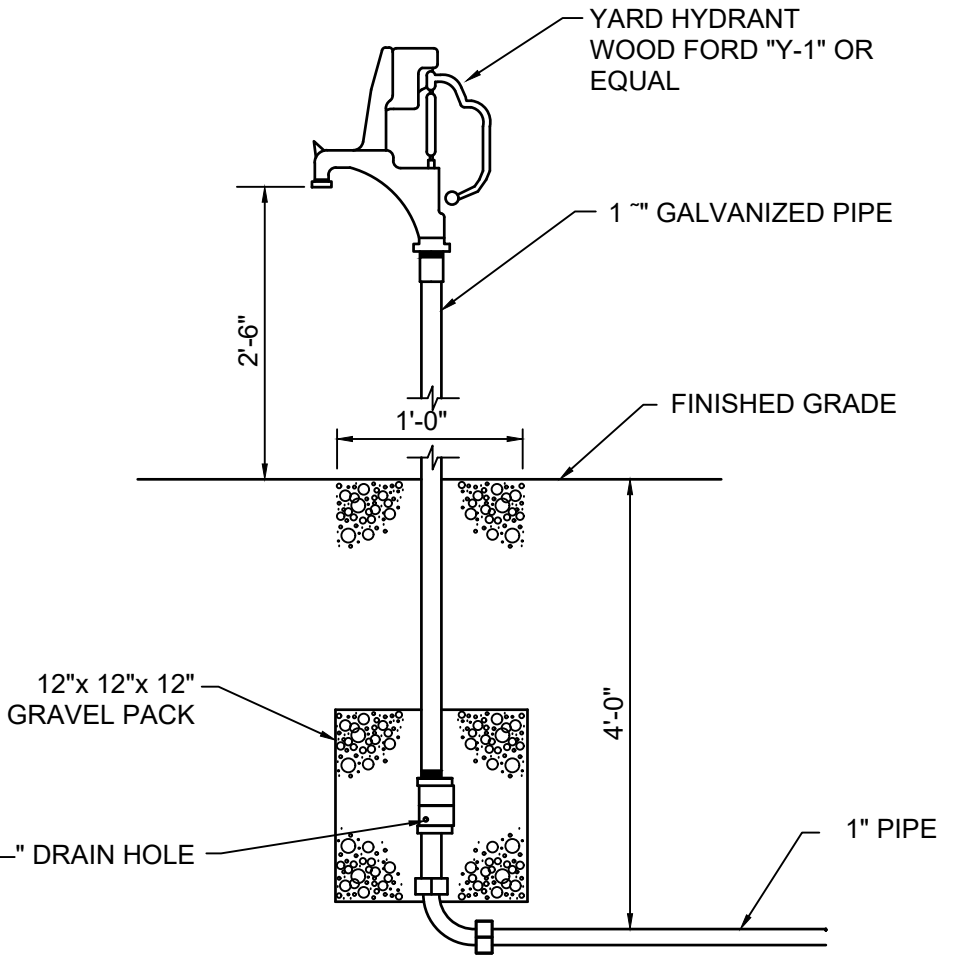
HOSE RACK DETAIL
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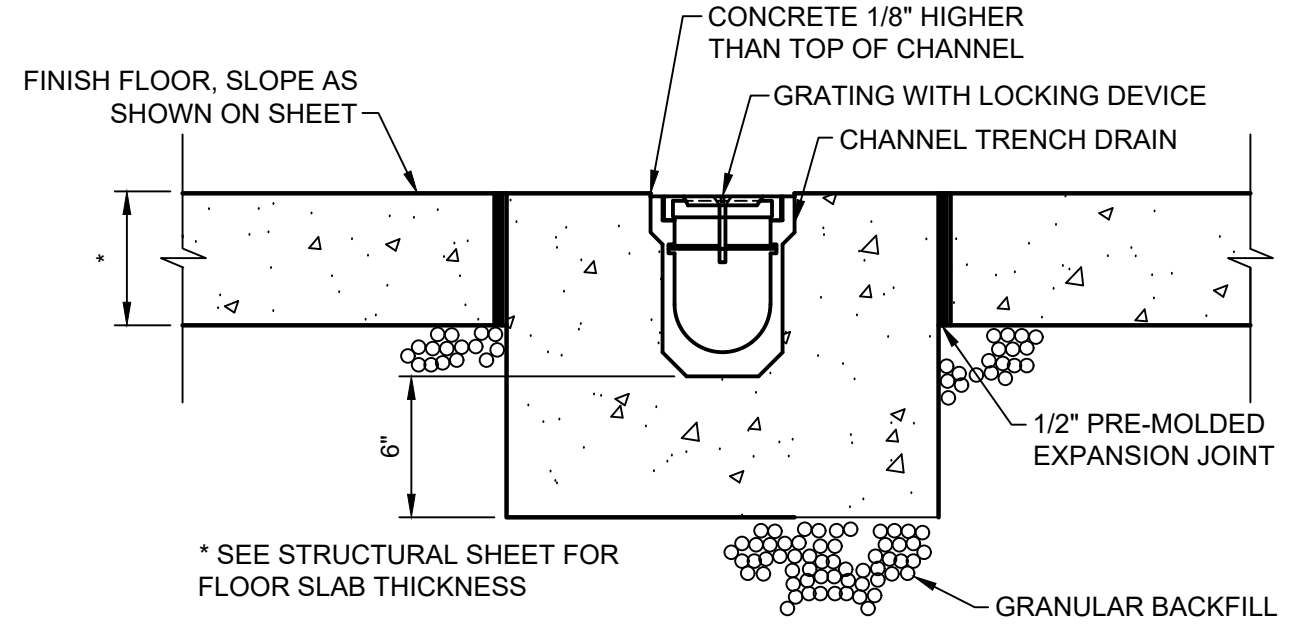
CLEANOUT DETAIL
NO SCALE



FLUSHING WATER HOSE CONNECTION DETAIL
NO SCALE



YARD HYDRANT DETAIL
NO SCALE



TRENCH DRAIN DETAIL
NO SCALE

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SOUTH BEND, IN

Professional Engineer Seal: ERIC T. PARS ET AL., No. 102003330, STATE OF INDIANA, PROFESSIONAL ENGINEER.

Signature: Eric T. Pars
Date: 01/24/24

**CITY OF ROCKPORT
SPENCER COUNTY, INDIANA**

**WASTEWATER LTCP PHASE 4
PROJECT**

DIVISION "A" - WWTP

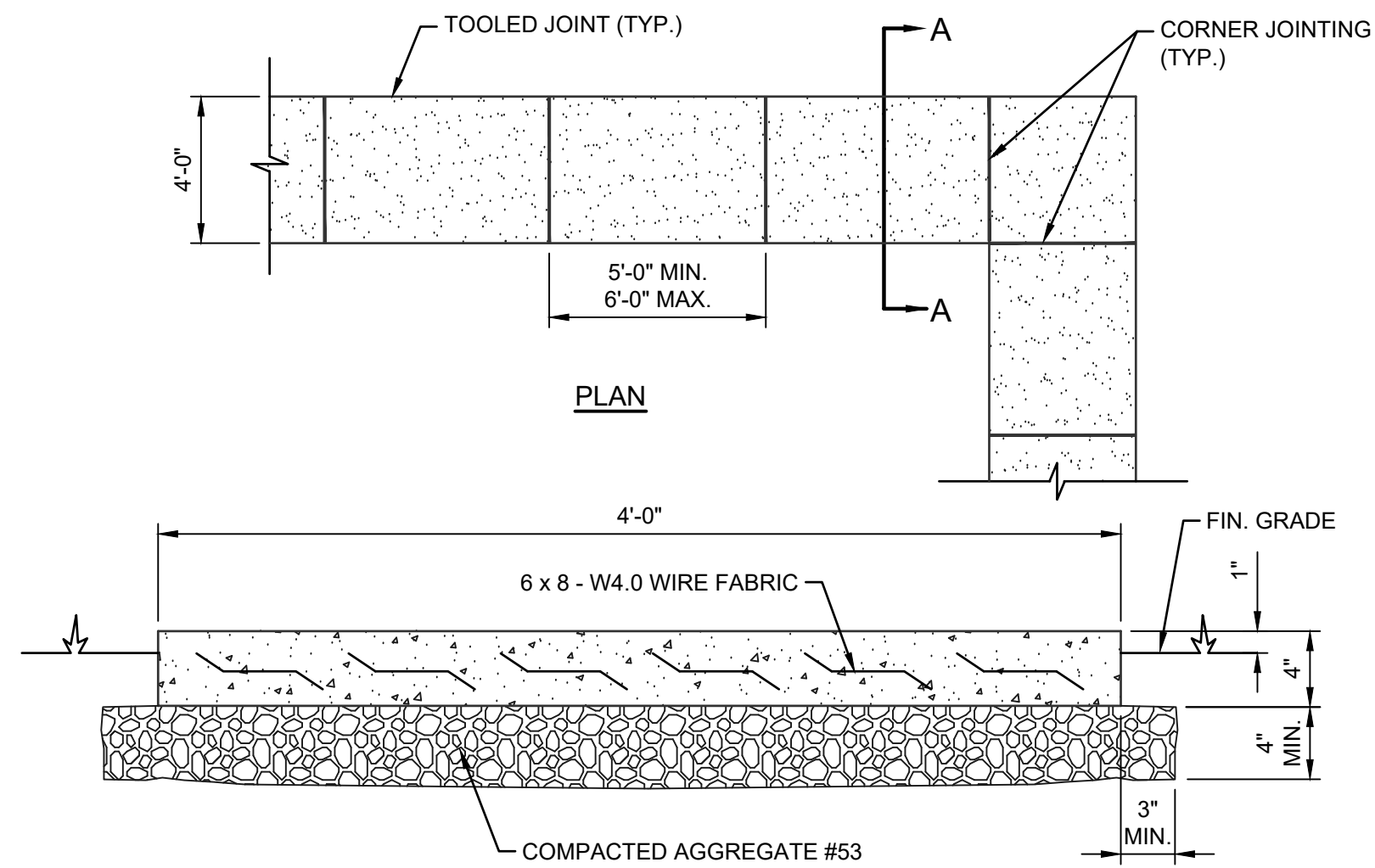
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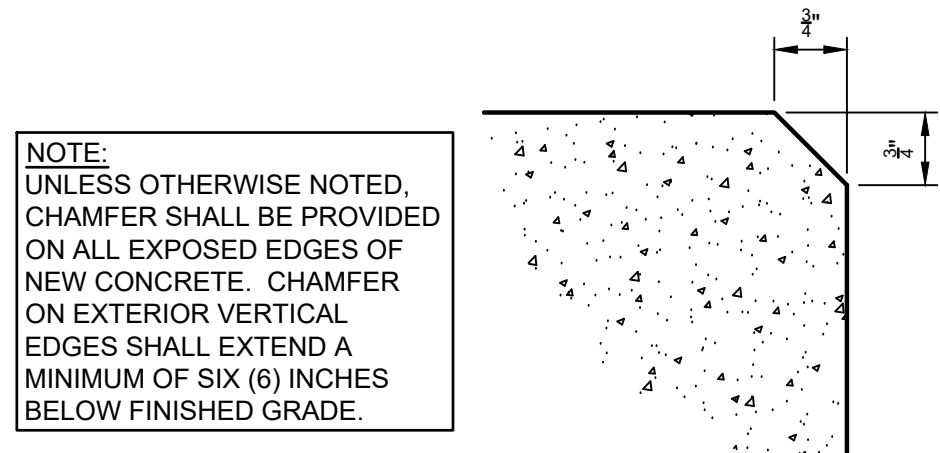
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Issue Date: JAN. 2024	Project No: S20107	Scale: AS SHOWN

MISCELLANEOUS DETAILS



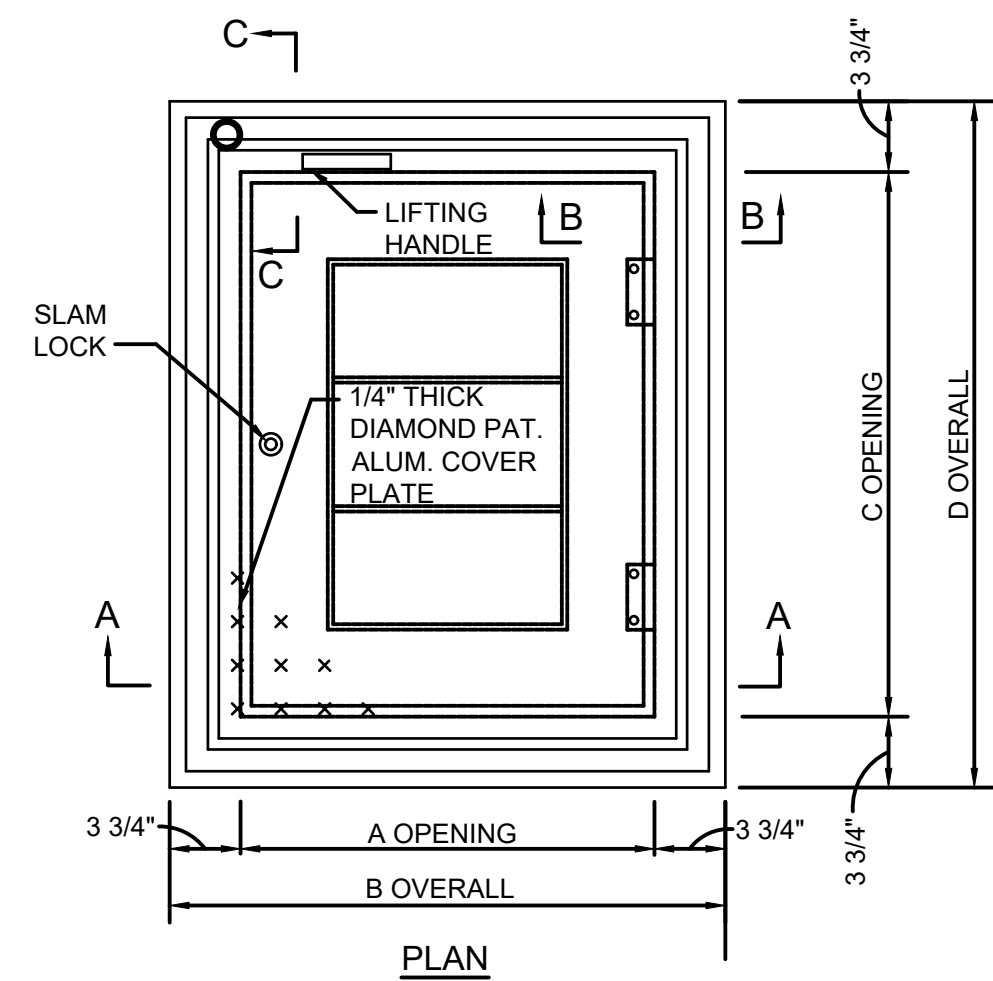
- GENERAL NOTES:**
- SECTION "A-A"**
- TRANSVERSE JOINTS SHALL BE CUT WITH A JOINTER HAVING A RADIUS OF 1/4" AT SPACING AT A MINIMUM OF 6'-0".
 - SIDEWALK SHALL BE 6" WITH 8" OF COMPACTED AGGREGATE No. 53 AT ALL DRIVEWAY CROSSINGS.
 - SIDE SLOPE SHALL BE 1/4"/ FT.

CONCRETE SIDEWALK DETAIL
NO SCALE



NOTE:
UNLESS OTHERWISE NOTED, CHAMFER SHALL BE PROVIDED ON ALL EXPOSED EDGES OF NEW CONCRETE. CHAMFER ON EXTERIOR VERTICAL EDGES SHALL EXTEND A MINIMUM OF SIX (6) INCHES BELOW FINISHED GRADE.

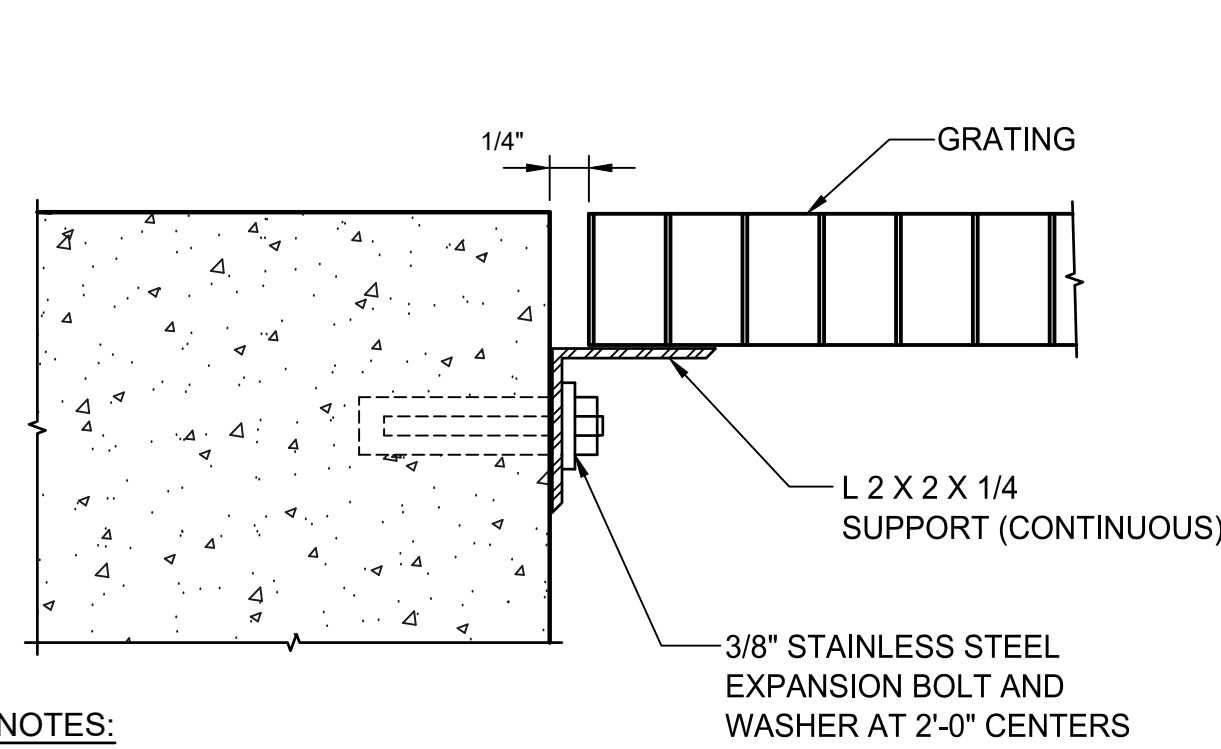
CONCRETE WALL CHAMFER DETAIL
NO SCALE



NOMINAL OPENING (INCHES)	DIMENSIONS (VARY PER MANUFACTURER)			
	A	B	C	D
24x24	24"	31 1/2"	24"	31 1/2"
30x30	30"	37 1/2"	30"	37 1/2"
36x36	36"	43 1/2"	36"	43 1/2"
30x48	30"	37 1/2"	48"	55 1/2"
36x48	36"	43 1/2"	48"	55 1/2"

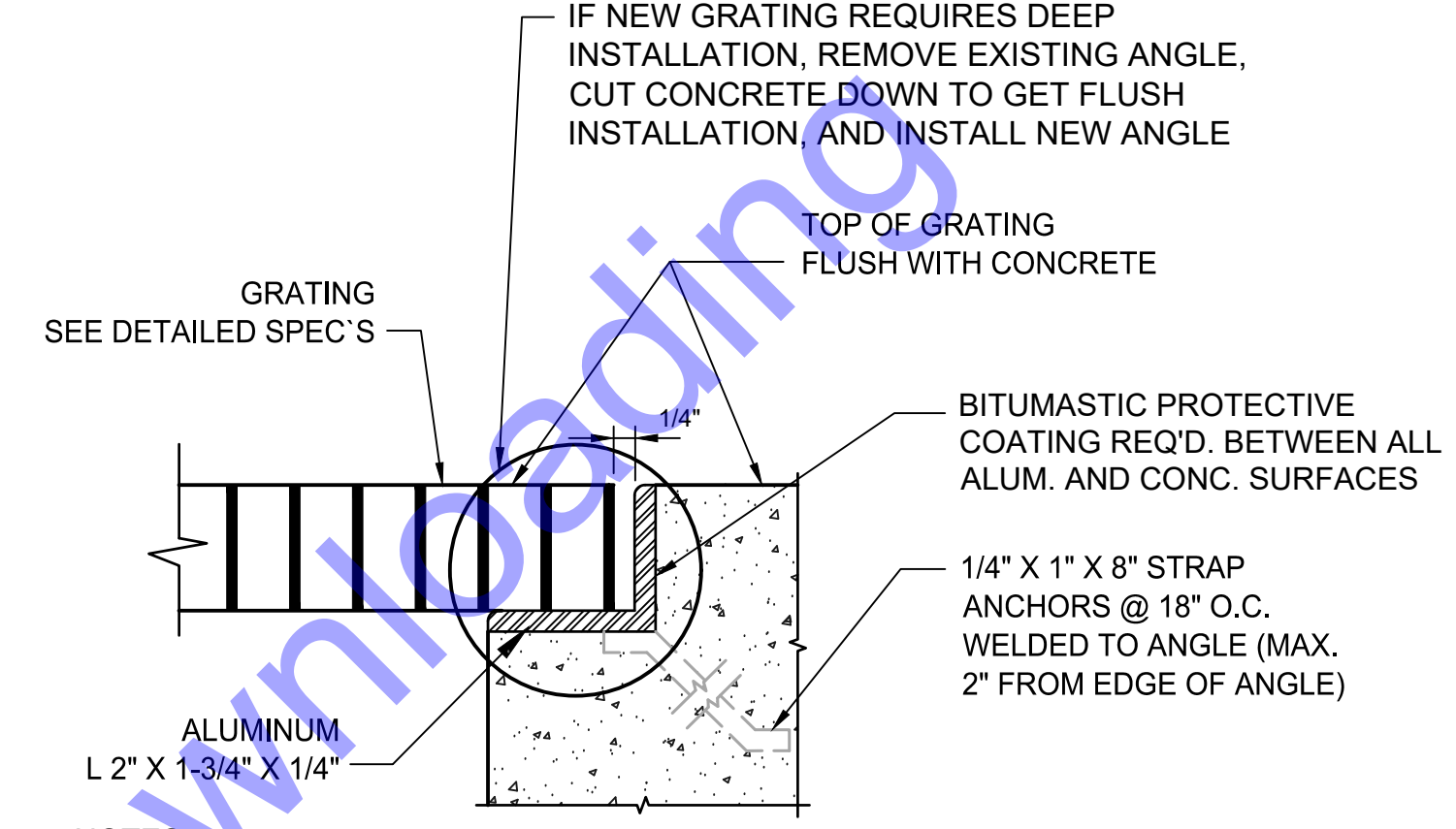
GENERAL NOTE:
CONTRACTOR SHALL PIPE DRAIN TO EXTERIOR OF STRUCTURE. (REFER TO PROCESS DRAWINGS AND SPECIFICATIONS FOR MORE DETAILS)

TYPICAL SINGLE LEAF ACCESS HATCH DETAIL
NO SCALE



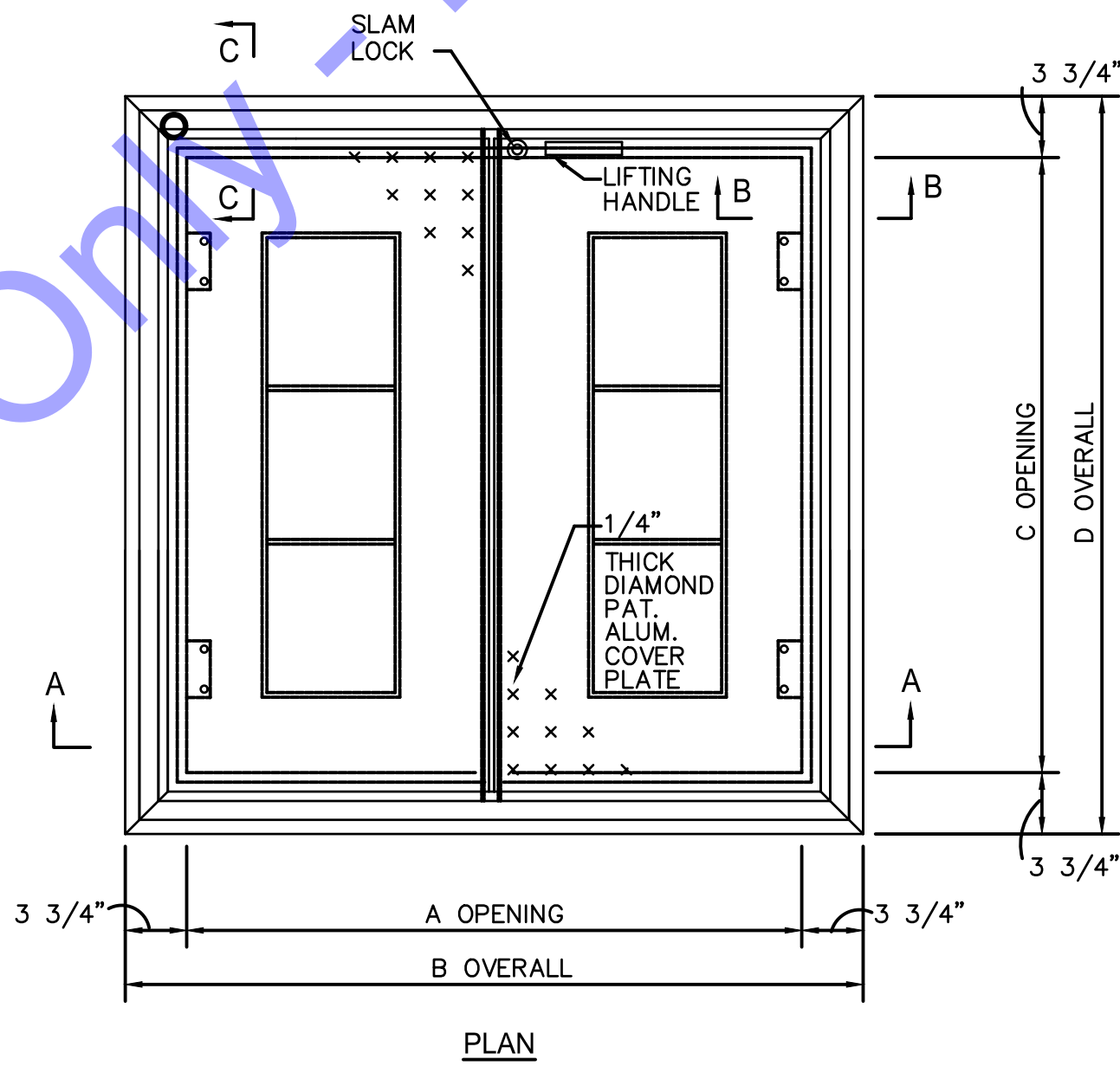
- NOTES:**
- GRATING SHALL CONFORM TO THE REQUIREMENTS OF THE DETAILED SPECIFICATIONS.
 - SUPPORT SHALL BE ALUMINUM UNLESS STEEL GRATING IS USED. IF STEEL GRATING IS USED THE SUPPORT SHALL BE STEEL AND SHALL BE PAINTED AS DESCRIBED IN THE DETAILED SPECIFICATIONS.

GRATING SUPPORT DETAIL - FACE MOUNTED
NO SCALE

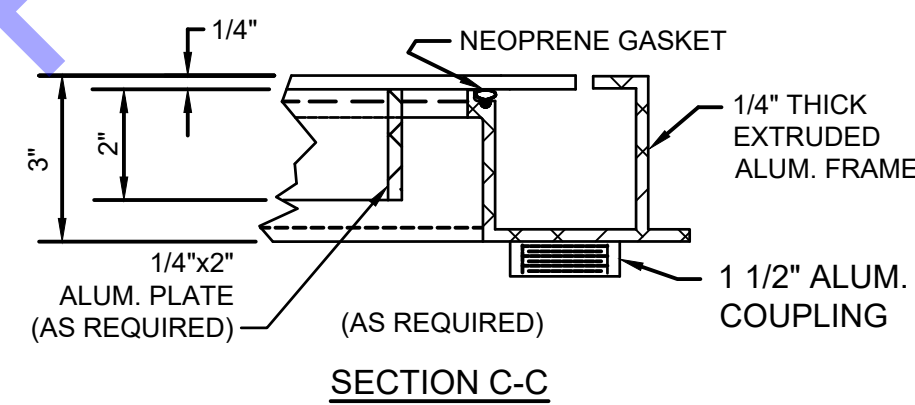
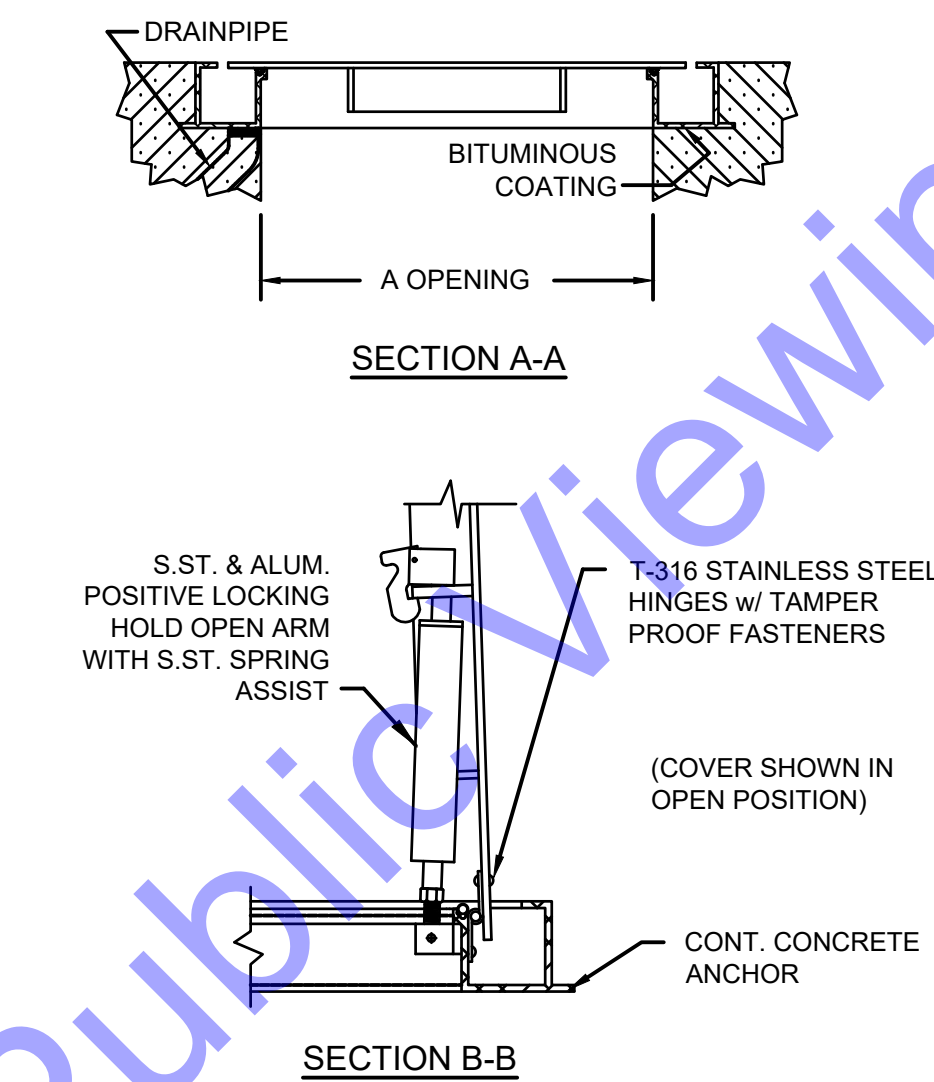


- NOTES:**
- EMBEDMENT ANGLE SIZE INDICATED IS FOR 1.5" THICK GRATING. PROVIDED DEEPER EMBEDMENT ANGLE AS NECESSARY FOR GRATING THICKNESSES GRATER THAN 1.5"

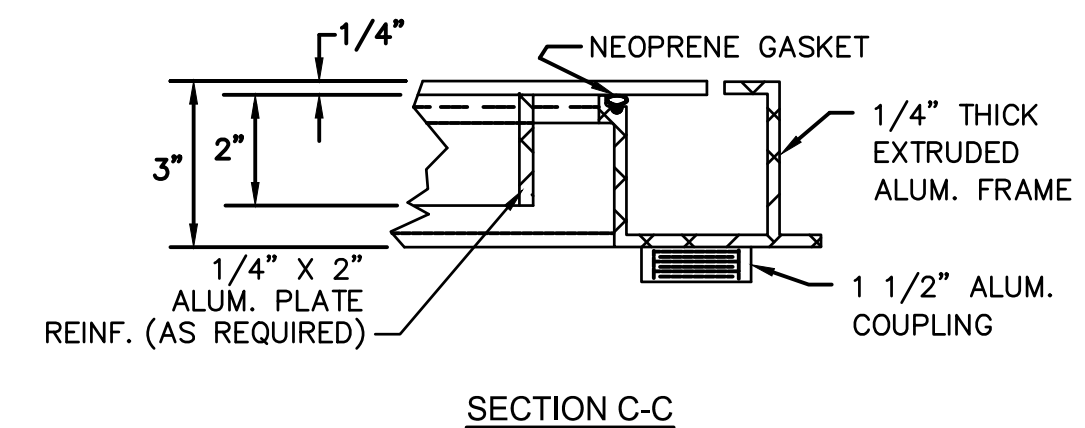
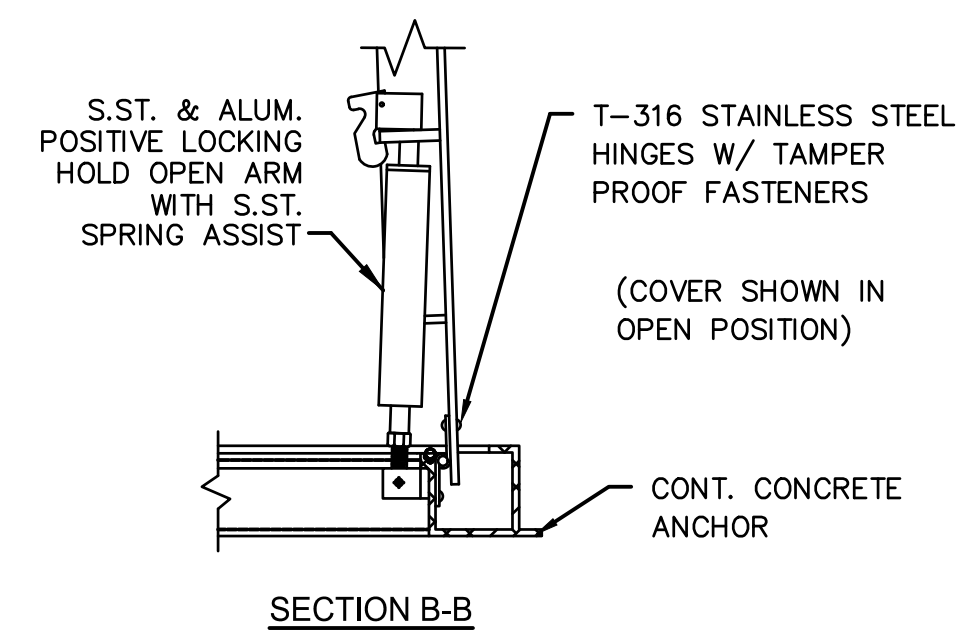
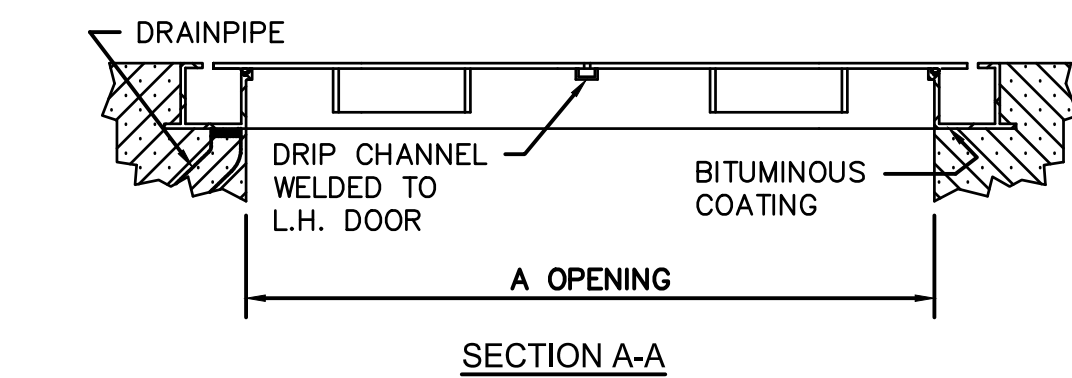
GRATING SUPPORT DETAIL - EMBEDDED GRATING
NO SCALE



NOMINAL OPENING (INCHES)	DIMENSIONS (VARY PER MANUFACTURER)			
	A	B	C	D
42x42	42"	49 1/2"	42"	49 1/2"
48x48	48"	55 1/2"	48"	55 1/2"
48x60	60"	67 1/2"	48"	55 1/2"
54x48	54"	61 1/2"	48"	55 1/2"
60x60	60"	67 1/2"	60"	67 1/2"
72x48	72"	79 1/2"	48"	55 1/2"
72x60	72"	79 1/2"	60"	67 1/2"



TYPICAL DOUBLE LEAF ACCESS HATCH DETAIL
NO SCALE

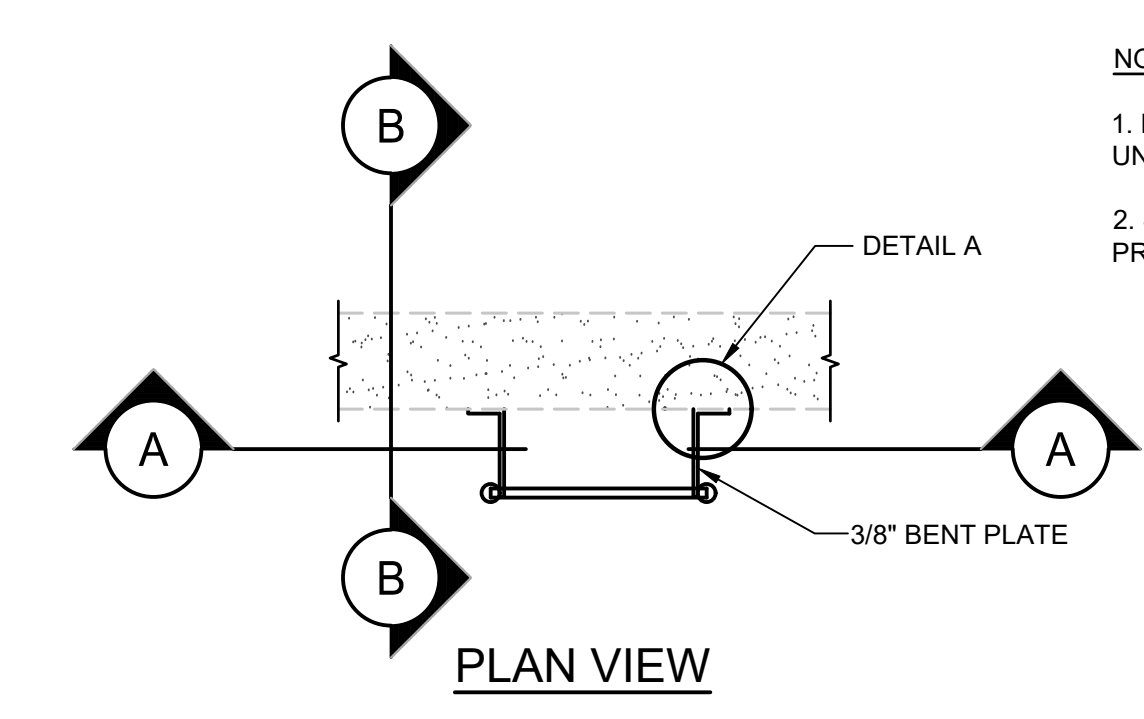
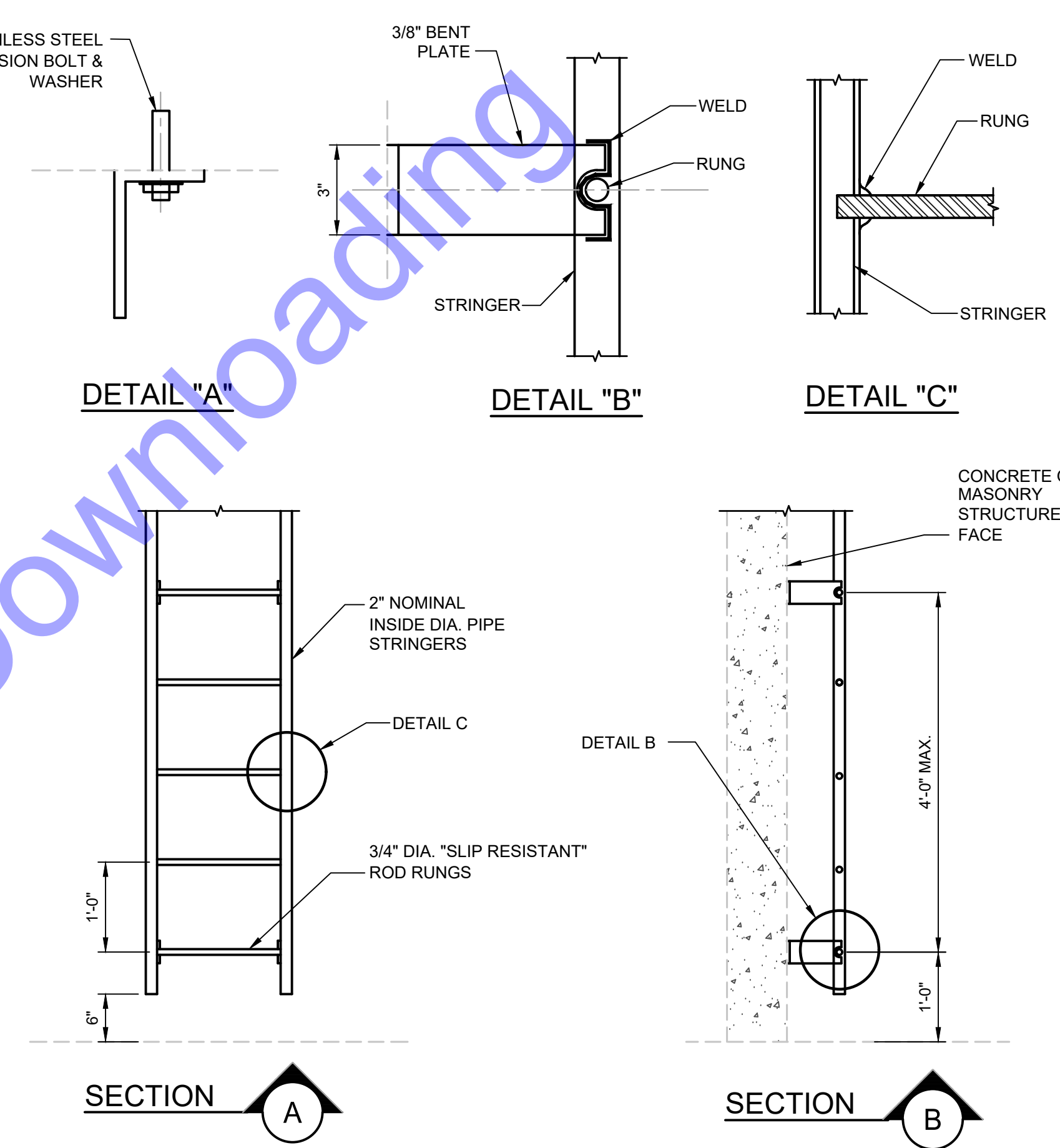
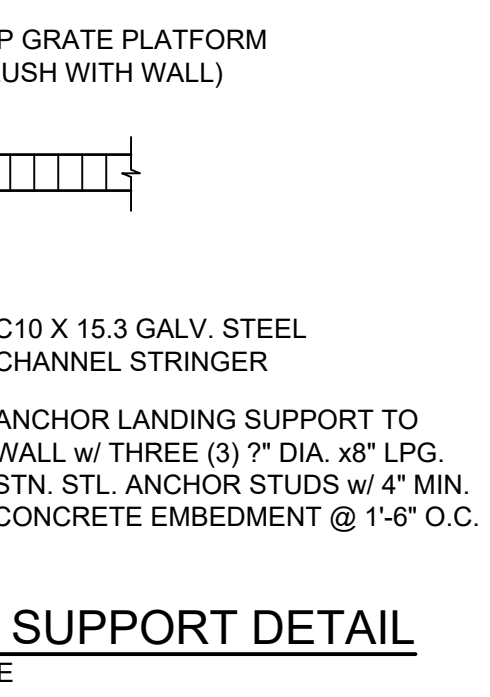
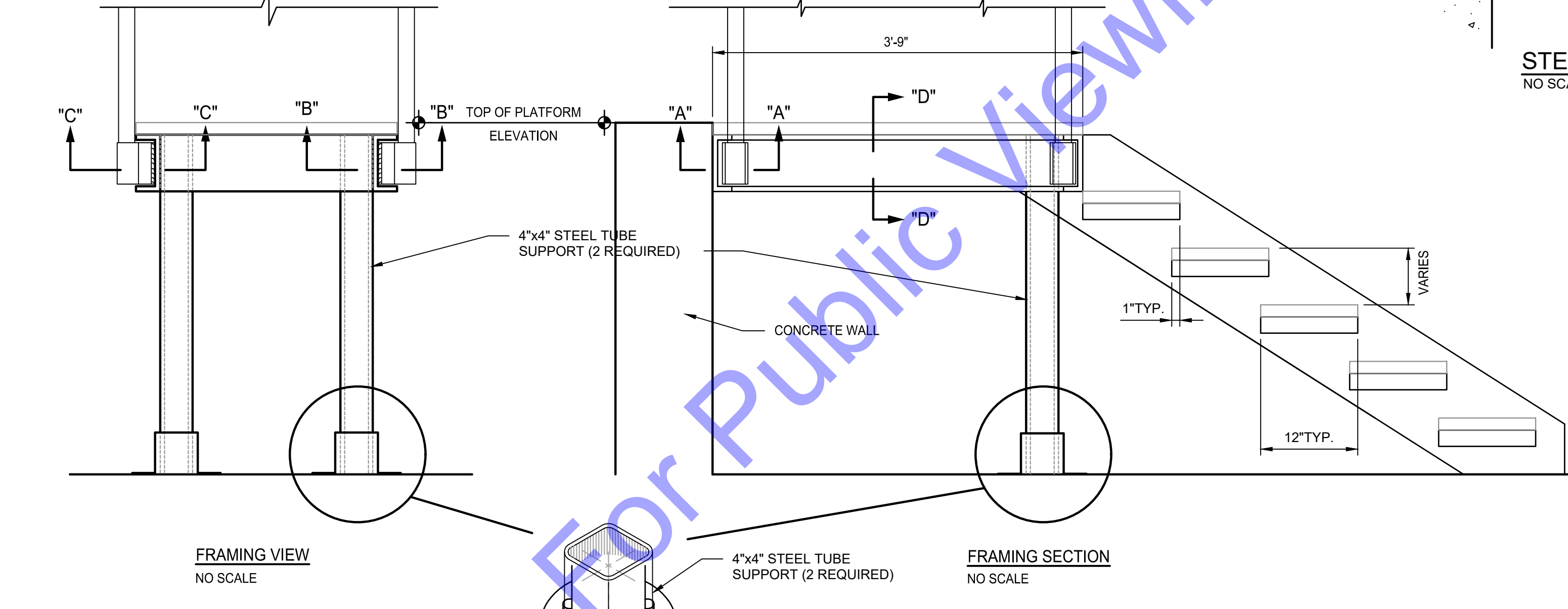
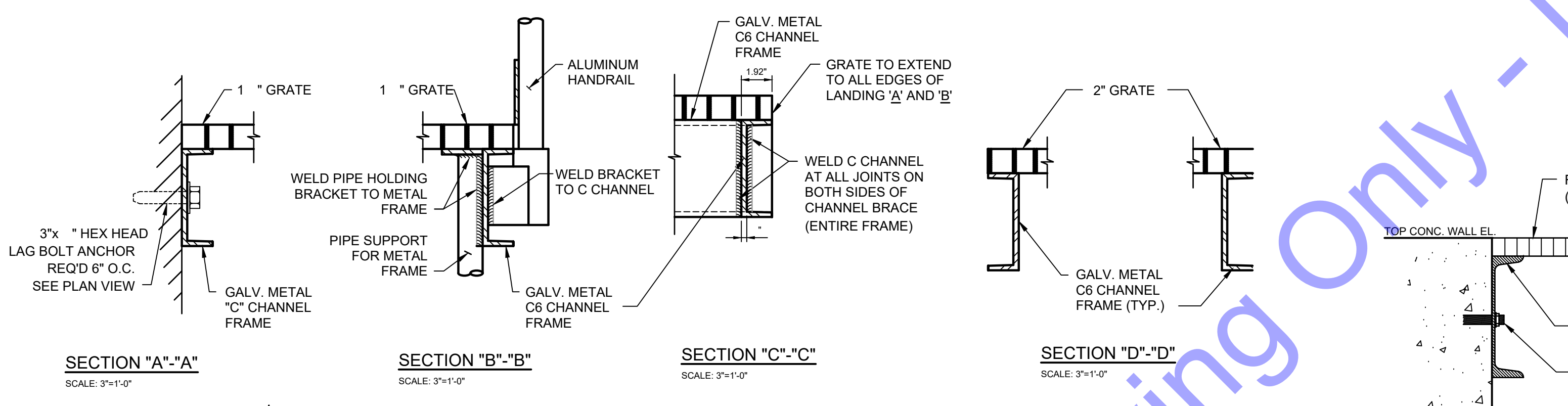
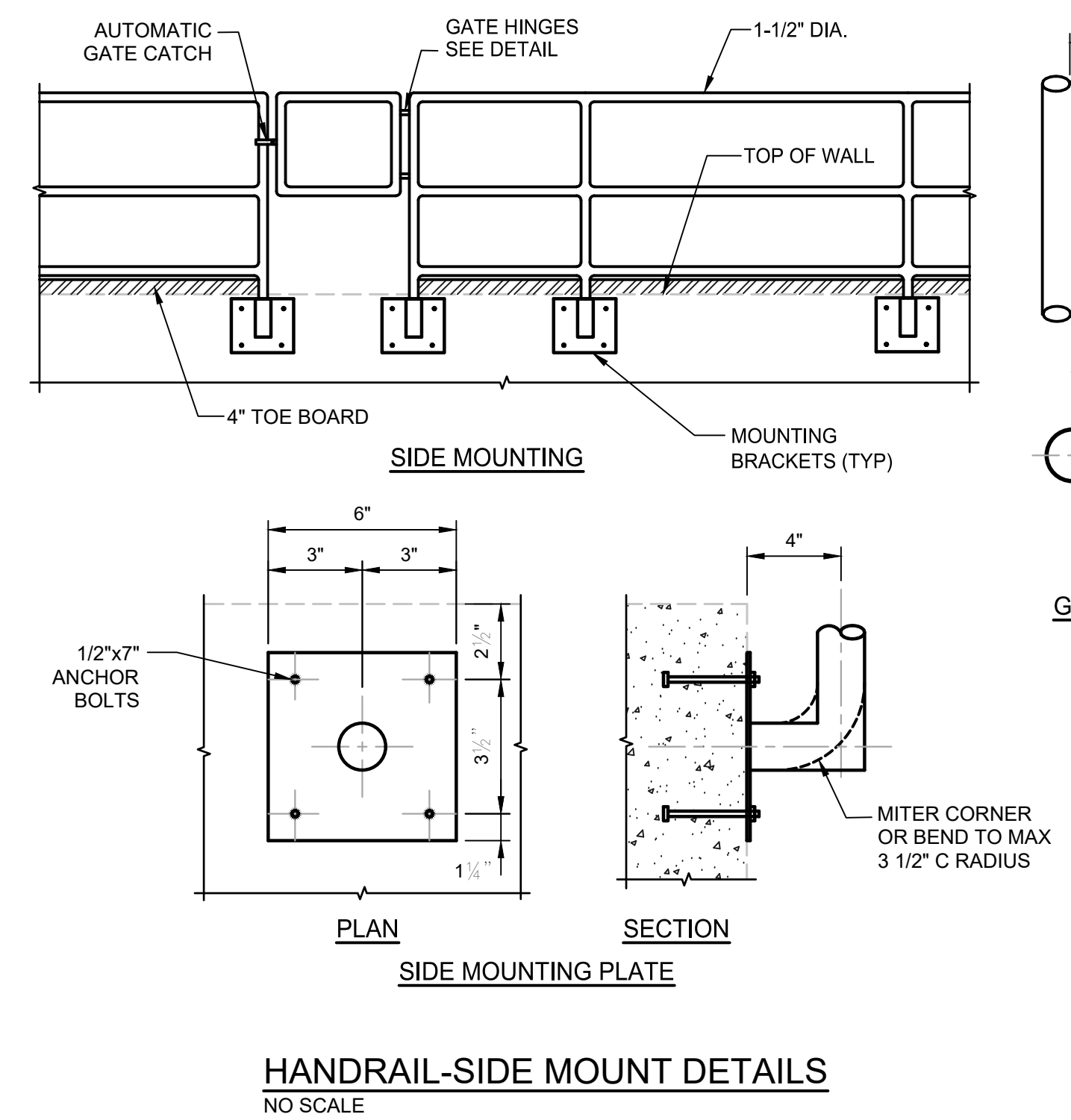
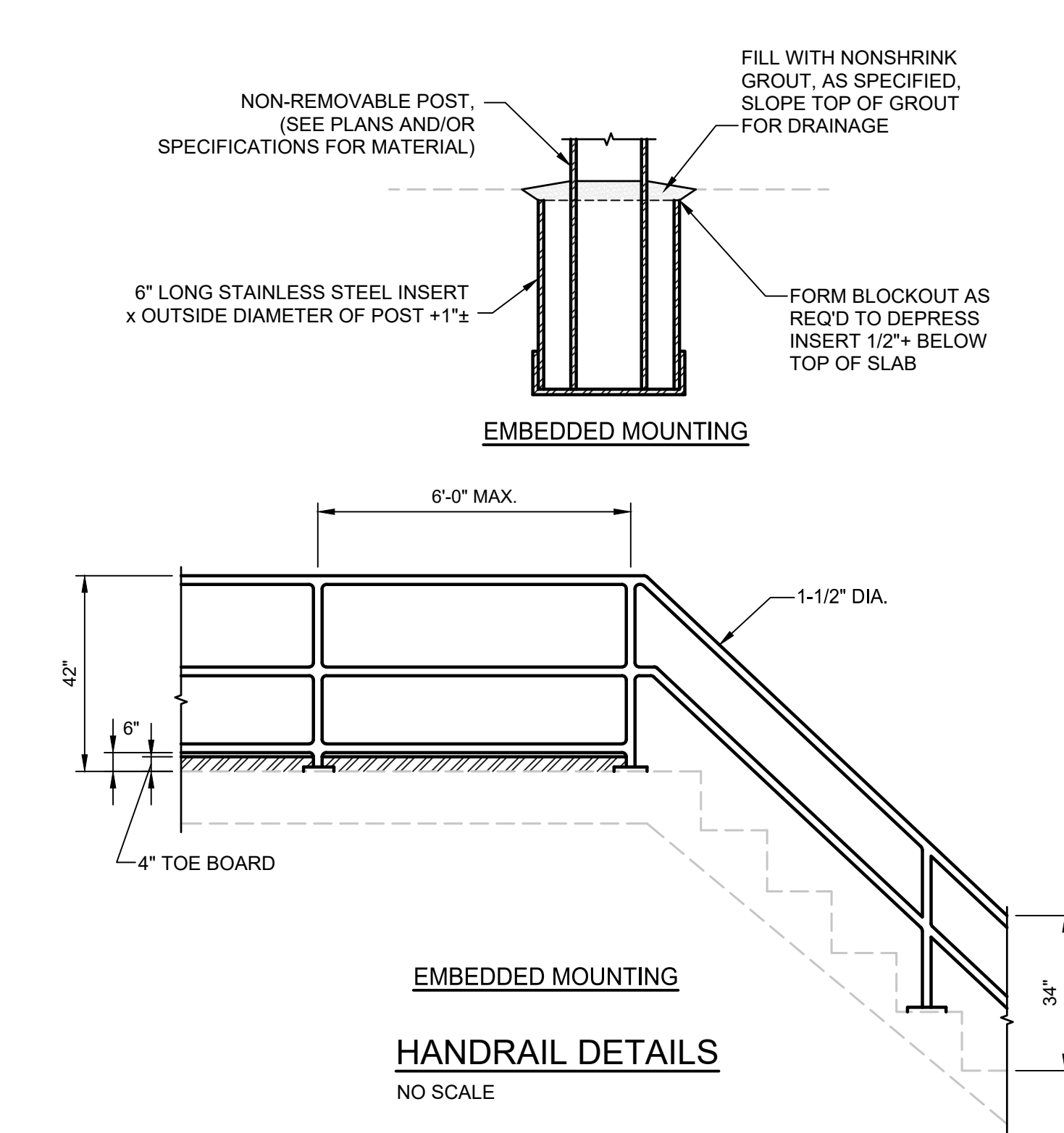


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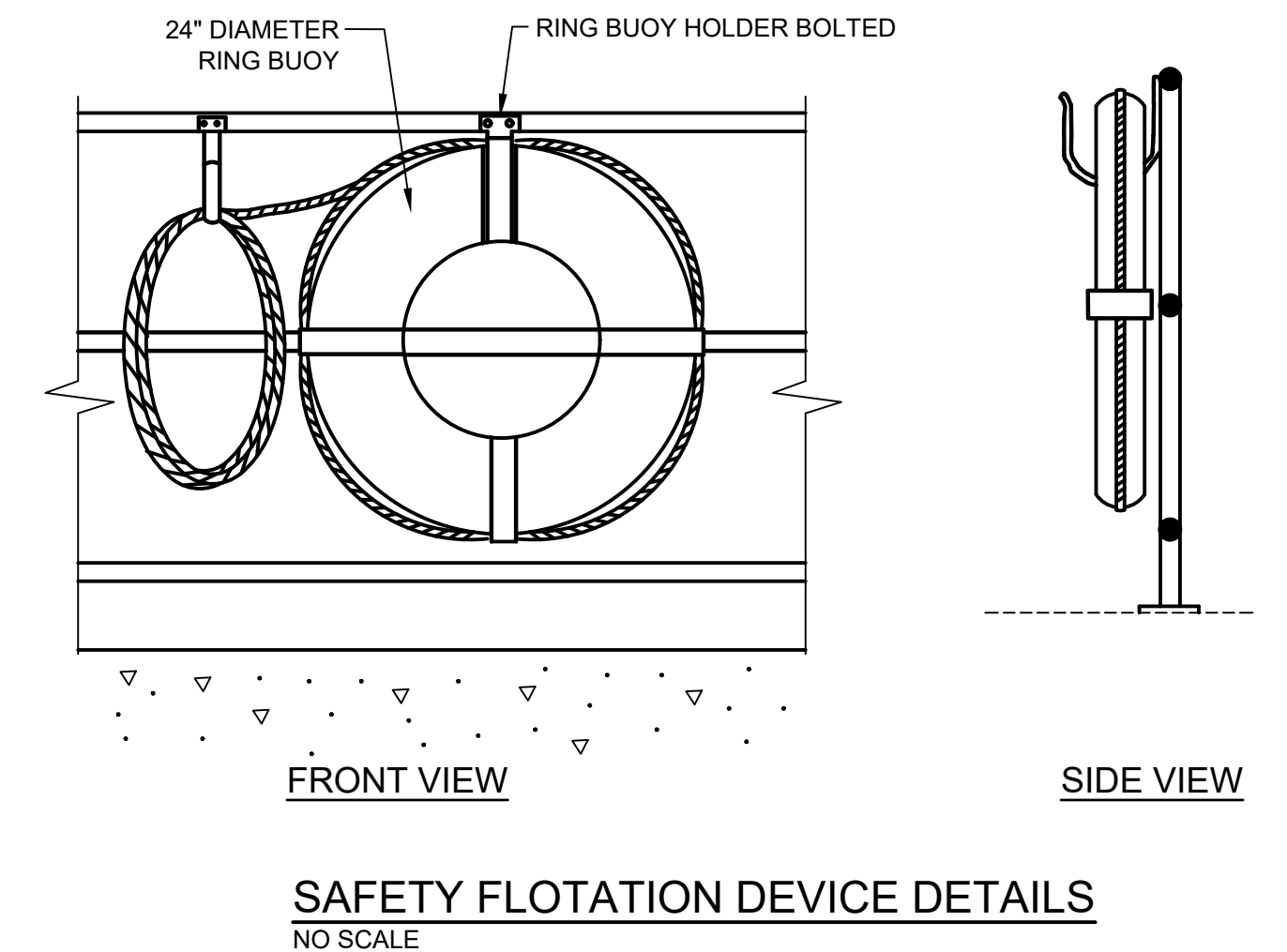
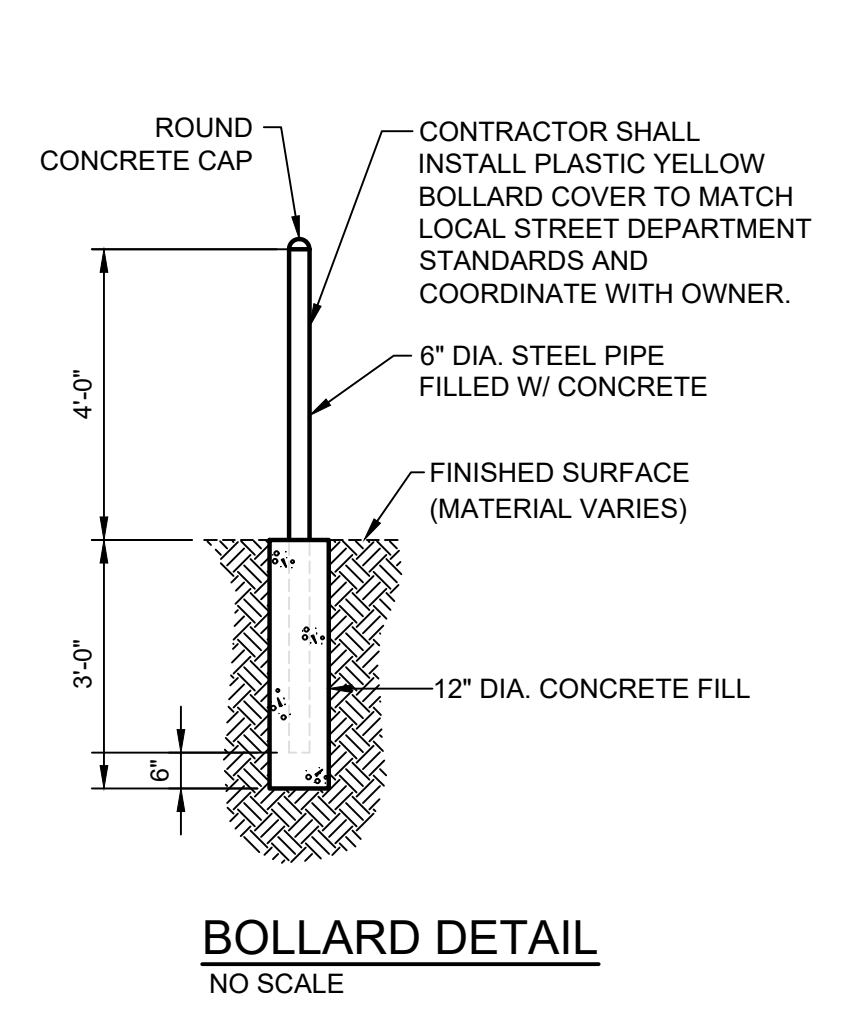
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MISCELLANEOUS DETAILS

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NOTES:
 1. MATERIAL SHALL BE ALUMINUM UNLESS NOTED OTHERWISE.
 2. SAFETY CLIMB DEVICE SHALL BE PROVIDED.



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Professional Engineer
 No. 102003330
 STATE OF INDIANA
 Signature: [Signature] Date: 01/24/24

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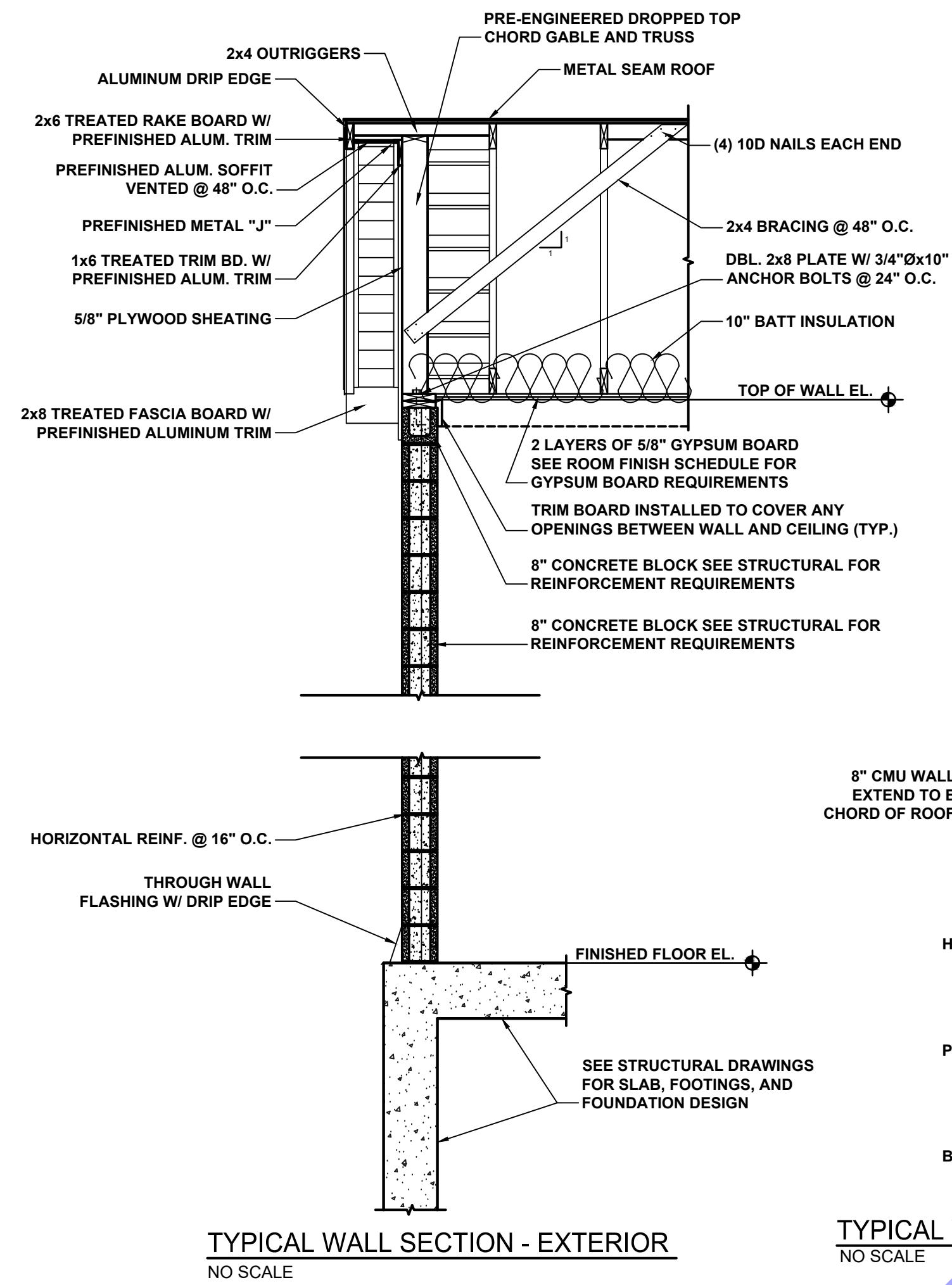
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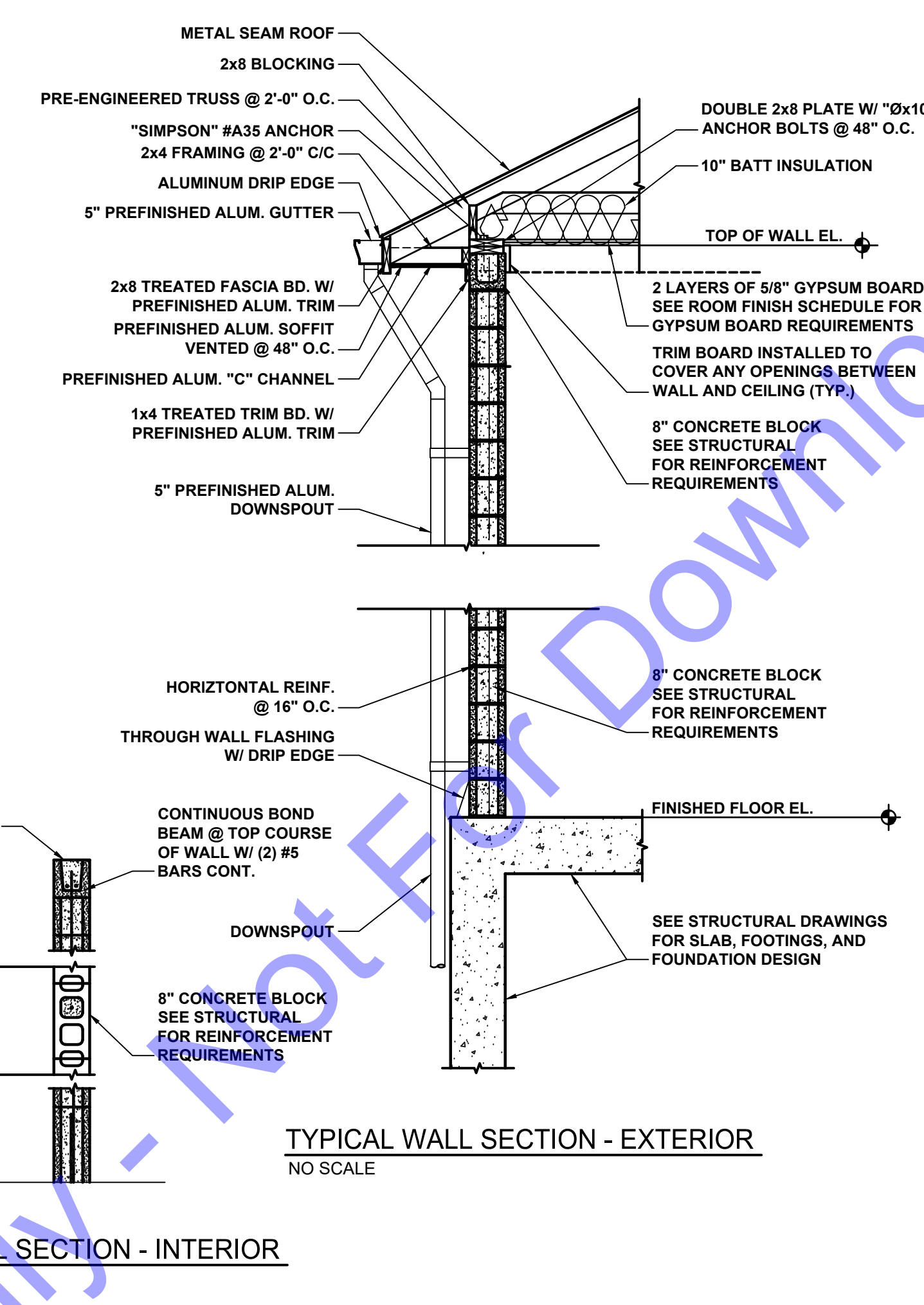
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MISCELLANEOUS DETAILS

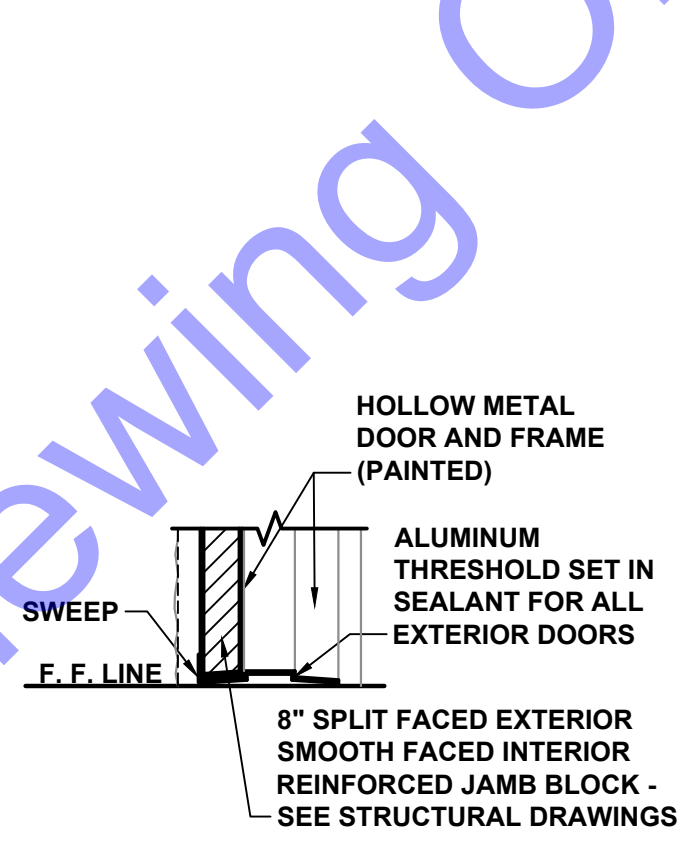
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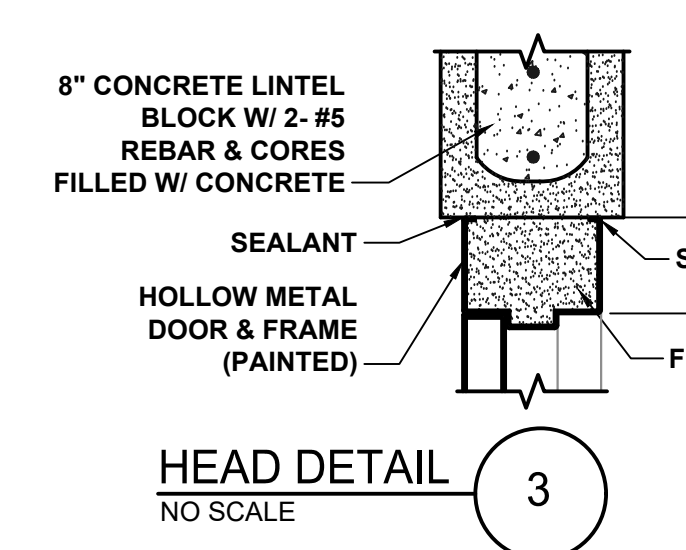
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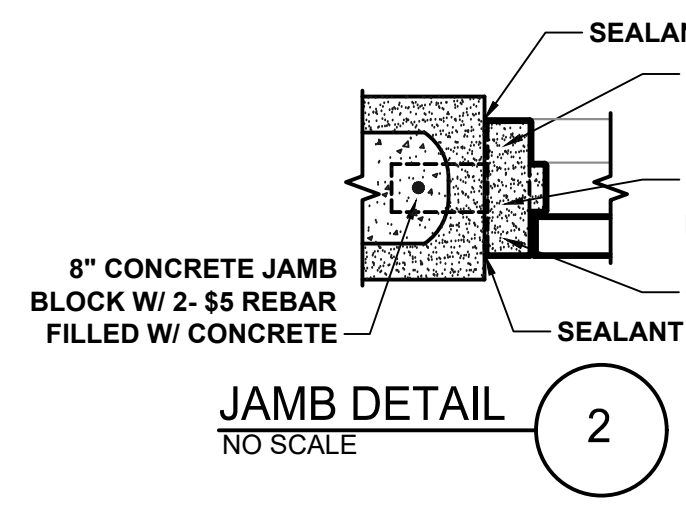
TYPICAL WALL SECTION - INTERIOR
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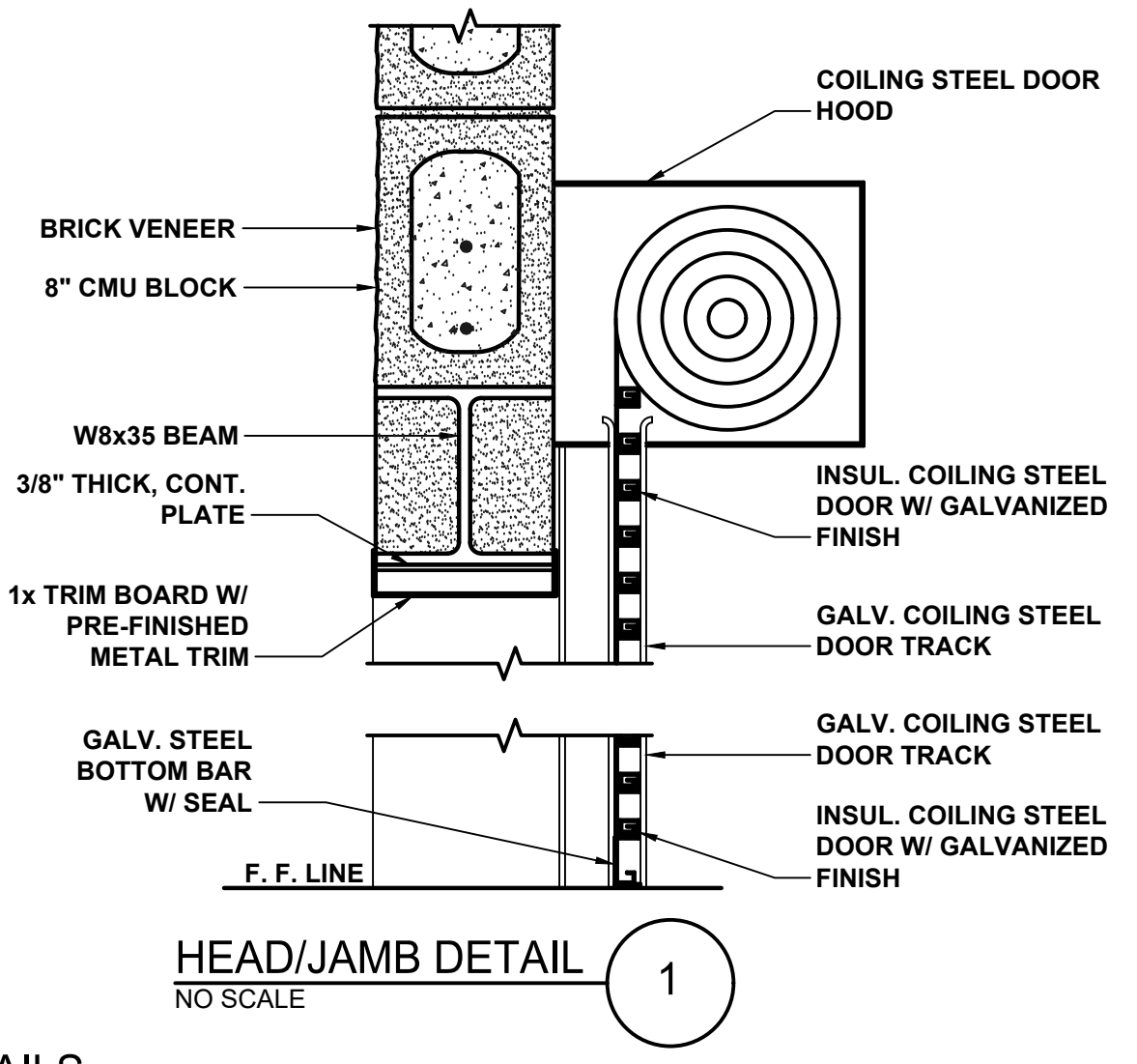
SILL DETAIL
NO SCALE



HEAD DETAIL
NO SCALE



JAMB DETAIL
NO SCALE



HEAD/JAMB DETAIL
NO SCALE

DOOR DETAILS
NO SCALE

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 BOWLING GREEN, KY
 SOUTH BEND, IN

Professional Engineer
 No. 10200330
 STATE OF INDIANA
 Signature: *E.T. Parsi* Date: 01/24/24

CITY OF ROCKPORT
 SPENCER COUNTY, INDIANA
 WASTEWATER LTCP PHASE 4
 PROJECT
 DIVISION "A" - WWTP

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No.	Submittal / Revision	Date

Designed By: JE	Drawn By: DAN	Checked By: EP
Issue Date: JAN. 2024	Project No: S20107	Scale: AS SHOWN

MISCELLANEOUS DETAILS

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GENERAL

- The structure has been designed for the in-service loads only. The methods, procedures, and sequences of construction are the responsibility of the Contractor. Supporting formwork for the concrete construction shall not be removed before the concrete has gained sufficient strength to safely support the dead and superimposed loads which will be subsequently applied. The Contractor shall take all necessary precautions to maintain and ensure the integrity of the structure at all stages of construction.
- All work shall be performed in accordance with the Indiana Building Code, 2014 Edition (2012 International Building Code, first printing, and Indiana Amendments).
- Where new work is to be fitted to old work, the Contractor shall check all dimensions and conditions in the field, and report any errors or discrepancies to the Structural Engineer prior to the fabrication and erection of any new members.
- Do not determine dimensions by "scaling" off the plans. The Contractor shall accept all risk associated with "scaling" and shall be responsible for all inadequate work resulting therefrom. Questions regarding missing or conflicting dimensions shall be directed, in writing, to the Structural Engineer.
- Existing materials to be removed and reinstalled as part of this contract, but become damaged, shall be replaced with approved new material of equivalent quality and appearance at the Contractor's expense.
- All work shall be performed without damage to adjacent retained work. Adequate protection of areas nearby work against dust, dirt and debris accumulation shall be maintained at all times.
- Principal openings in the structure are indicated on the structural drawings. Refer to the architectural, mechanical, electrical, and plumbing drawings for sleeves, curbs, inserts, etc. not herein indicated. Openings in slabs with a maximum size dimension or diameter of 10 inches or less shall not require additional framing or reinforcement, unless noted otherwise. The location of sleeves or openings not shown in structural members shall be approved by the Structural Engineer.
- The Contractor shall relocate all mechanical piping, ducts, equipment, electrical conduits, wiring and plumbing that interfere with the proposed construction. Service shall be maintained to all equipment that is served by mechanical, electrical or plumbing conduit being relocated.
- The Contractor shall relocate all utilities which interfere with the proposed construction. Service shall be maintained at all times during utility relocation unless otherwise noted.

FOUNDATIONS

- Exterior footings shall bear 2'-0" minimum below finish grade and shall bear on undisturbed soil.
- Foundation excavation and all other soils related work shall be performed in accordance with the geotechnical engineering report number 094590.00 prepared by SME dated March 11, 2024 and all associated supplements.
- Foundation and soils related work shall be performed under the direct supervision of a qualified Geotechnical Engineer.
- Foundation excavations shall be made to plan elevations. The soil conditions beneath foundations shall then be inspected by a qualified Geotechnical Engineer. If the underlying soils are found to be unacceptable, one of the following procedures shall be followed:
 - Remove the unacceptable soil and backfill with an engineered structural fill in accordance with the geotechnical engineering report or inspecting Geotechnical Engineer.
 - Lower the footing to an acceptable soil. Contact the Structural Engineer for potential modifications to the foundation system.
- Subgrade structural elements subjected to differential lateral soil pressure shall be adequately braced until the structural elements which provide lateral restraint have been placed and allowed to cure for a minimum of 7 days.
- Excavations for spread footings, combined footings, continuous footings and/or mat foundations shall be cleaned and hand tamped to a uniform surface. Foundation excavations shall be adequately protected against detrimental change in condition from disturbance, rain, freezing, etc. Surface runoff shall not be allowed to enter the excavation.
- Foundation conditions noted during construction, which differ from those described in the geotechnical report shall be reported to the Structural Engineer and Geotechnical Engineer before further construction is attempted.
- Center all column and wall footings under the column or wall above unless otherwise indicated.

RAMMED AGGREGATE PIERS (RAP)

- Soil supporting foundations of the SBR facility and the UV and Cascade Aeration Structure shall be improved using aggregate piers to provide soil characteristics as follows:
 - Allowable Bearing Capacity. See Design information
 - Estimated Total Long-Term Settlement: 1.0 inch maximum
 - Estimated Differential Settlement: 0.5 inch maximum
- The General Contractor shall coordinate all foundation and slab bearing elevations and site grading requirements with the aggregate pier installer prior to commencement of aggregate pier installation.
- The as-built center of each pier shall be within six inches of the location indicated on the reviewed shop drawing/delegated design submittal. The top of each pier shall be not more than 1 inch above and not 3" below the design bearing elevation. Piers installed outside of these tolerances and deemed not acceptable by the Structural Engineer shall be rebuilt at no additional expense to the owner.
- Aggregate Piers installed beyond the maximum allowable tolerances shall be abandoned and replaced with new piers, unless the Engineer approves other remedial measures.
- The General Contractor shall engage an Independent Testing Agency to continuously monitor the installation and required testing of all Aggregate Piers.
- The Aggregate Pier Installer shall provide on a daily basis, complete and accurate records of all aggregate pier installations to the General Contractor. The records shall indicate the pier location, length, volume of aggregate used or number of lifts, densification forces during installation, and final elevations and depths of the base and top of piers. The record shall also indicate the type and size of the equipment used, and the type of aggregate used. The Installer shall immediately report to the General Contractor, the Structural Engineer and Independent Testing Agency, any unusual conditions encountered during installation.
- The General Contractor shall coordinate all excavations made subsequent to the aggregate pier installation so that excavations do not encroach on the piers. Protection of the completed aggregate pier elements is the responsibility of the General Contractor. In the event that utility excavations are required in close proximity to the installed aggregate piers, the General Contractor shall immediately contact the Aggregate Pier delegated design professional to develop construction solutions to minimize the impact on the installed piers.

CONCRETE

- Reinforced concrete has been designed in accordance with the latest editions of the Building Code Requirements for Reinforced Concrete (ACI 318) and Environmental Engineering Concrete Structures (ACI 308R) by the American Concrete Institute (ACI).
- Slabs-on-grade shall be constructed in accordance with the latest edition of the Guide for Concrete Floor and Slab Construction (ACI 302.1R).
- Mixing, transporting, and placing of concrete shall conform to the latest edition of the Standard Practice for Selecting Proportions for Normal, Heavyweight, and Mass Concrete (ACI 211.1) and the Standard Specifications for Structural Concrete (ACI 301). The special provisions of ACI 211.1 Appendix 5 (Mass Concrete Mix Proportioning) shall be used in proportioning the concrete mixture for the mat foundation to control temperature rise during hydration. In addition, the provisions of ACI 207.1R (Mass Concrete) shall apply. Concrete curing shall conform to the latest editions of the Standard Practice for Concrete Curing (ACI 308) and the Standard Specification for Curing Concrete (ACI 308.1). In case of a discrepancy, the plans and specifications shall govern.
- Unless noted otherwise, concrete shall have natural sand fine aggregate and normal weight coarse aggregates conforming to ASTM C33, and Type I or III Portland Cement conforming to ASTM C150. Type III Portland Cement shall not be used in mass concrete. The Contractor shall submit a mix design for each proposed class of concrete. Mix designs shall indicate proportions by weight, water-cement ratio, slump, air content, synthetic fiber size and quantity, sieve analyses of fine and coarse aggregates, standard deviation analysis, and required average strength and documentation of average strength verifying compliance with ACI 318. The Contractor shall not vary from the mix design without approval from the Structural Engineer.

- Unless noted otherwise, fly ash may be used as a pozzolan to replace a portion of the Portland Cement in a concrete mix. Fly ash, when used, shall conform to ASTM C618, Type C (except in mass concrete, ASTM C618, Type F shall be used). Concrete mixes using fly ash shall be proportioned to account for the properties of the specific fly ash used and to account for the specific properties of the fly ash concrete thus resulting. The ratio of the amount of the fly ash to the total amount of fly ash plus cement in the mix shall not exceed 25 percent.
- For mass concrete, ground granulated blast-furnace slag (GGBFS) may be used to replace a portion of the Type I Portland Cement in a concrete mix. Ground granulated blast-furnace slag, when used, shall conform to ASTM C989, Grade 100. Concrete mixes using GGBFS shall be proportioned to account for the properties of the specific GGBFS used and to account for the specific properties of the GGBFS concrete thus resulting. The ratio of the amount of the GGBFS to the total amount of GGBFS plus cement in the mix shall be between 65 and 70 percent (except for concrete exposed to deicing chemicals the maximum ratio shall be 50 percent).
- Water-reducing admixtures conforming to ASTM C494 may be used in the concrete mix design. Maximum slump shall be 5 inches for mixes containing water-reducing admixtures and 5 to 8 inches for mixes containing high range water-reducing admixtures.
- Concrete compressive strength tests shall be performed in accordance with ASTM C39. Copies of the test results shall be forwarded to the Structural Engineer. One set of specimens shall be taken for each day's pour of appreciable size and for each 50 cubic yards (100 cubic yards for mass concrete) in accordance with the latest edition of ASTM C31. Each set shall include one specimen tested at 7 days, 2 specimens tested at 28 days and one specimen retained in reserve. Two additional reserve specimens shall be retained for all mass concrete pours. These test cylinders shall be laboratory cured. For mass concrete pours, these test cylinders shall remain on-site for 48 hours before being transported to the testing lab.
- When the ambient temperature is expected to fall below 40 degrees during the course of a concrete pour or subsequent curing period, it shall be placed and cured in accordance with the latest edition of Cold Weather Concreting (ACI 308R) and an additional set of concrete test cylinders shall be made. For mass concrete, this set of additional test cylinders shall consist of four specimens for each 200 cubic yards of concrete placed. These cylinders shall be stored immediately adjacent to, and cured under the same conditions as the building concrete. Special curing boxes are not permitted for these test cylinders.
- Concrete mixed, transported, placed, and cured under conditions of high ambient temperature, low humidity, solar radiation, or high winds shall conform to the latest edition of Hot Weather Concreting (ACI 305R) and an additional set of concrete test cylinders shall be made. For mass concrete, this set of additional test cylinders shall consist of four specimens for each 200 cubic yards of concrete placed. These cylinders shall be stored immediately adjacent to, and cured under the same conditions as the building concrete. Special curing boxes are not permitted for these test cylinders.
- Slump tests shall be made prior to and following the addition of plasticizers. Where concrete is placed by pumping methods, concrete for test cylinders and slump tests shall be taken at the point of final placement.
- Water shall not be added to the concrete at the job site. The Contractor is responsible for coordinating a pumpable and workable mix without the addition of water at the job site. The use of plasticizers, retardants and other additives shall be at the option of the Contractor subject to the approval of the Structural Engineer. Follow the recommendations of the manufacturer for the proper use of additives. Use of calcium chloride or other chloride bearing salts is prohibited.
- Place concrete in a manner so as to prevent segregation of the mix. Delay floating and troweling operations until the concrete has lost surface free water. Do not sprinkle free water on the slab surface. Finishing of slab surfaces shall conform to the latest editions of ACI 302.1R and ACI 304R (Guide for Measuring, Mixing, Transporting and Placing Concrete).
- Where an epoxy adhesive is specified for bonding plastic concrete to hardened concrete, it shall conform to the latest edition of the Standard Specification for Bonding Plastic Concrete to Hardened Concrete with a Multi-Component Epoxy Adhesive (ACI 503.2).
- Maintain concrete in a moist condition for at least 5 days at ambient temperatures above 70 degrees, and at least 7 days at ambient temperatures above 50 degrees. Curing compounds or moisture retention covers shall be used for all non-form surfaces. Formed surfaces shall be cured by leaving forms in place. During hot, dry weather, keep forms moist by sprinkling. When forms are removed prior to the end of the curing period, apply curing compound to the exposed surfaces.
- All interior slabs shall receive a hard "troweled finish". Exterior slabs, sidewalks, and stoops shall receive a "broom (or other type of slip resistant) finish". All formed surfaces not exposed to public view shall receive a "rough form finish", exposed surfaces shall receive a "smooth form finish". Concrete finishes shall be as defined in ACI 301.
- Protect finished concrete surfaces from damage, rain, hail, running water, other injurious effects.
- Protect the concrete surface between finishing operations on hot, dry days or any time plastic shrinkage cracks could develop by using wet burlap, plastic membranes or fogging.
- Horizontal and vertical joints are not permitted in concrete construction except where indicated.
- Construction joints and/or contraction joints at locations other than where indicated shall be submitted to the Structural Engineer for approval.
- Construction joints shall be prepared by roughening the contact surface in an approved manner to a full amplitude of approximately 1/4 inch leaving the contact surface clean and free of laitance.
- Contraction joints shall be made in concrete slabs-on-grade at major column centerlines, at points of discontinuity, at reentrant corners, and at other locations shown on the plans.
- Provide 3/4 inch chamfers on all exposed corners of concrete except those abutting masonry.
- The Contractor shall verify the location of sleeves, openings, embedded items, etc. and shall ensure that they are in place prior to the placement of the concrete.
- Earth cuts shall not be used as forms ("bank forming") for vertical or sloping surfaces unless otherwise approved by the Structural Engineer. Where bank forming is permitted, the concrete element shall be increased at least 3 inches on all sides exposed to earth to account for possible soil contamination during concrete placement.

CONCRETE SCHEDULE

CONCRETE SCHEDULE						
CLASS	f _c	AIR CONTENT	MIN. CEMENT: LBS/CY (SACKS/CY)	MAX. WATER: GALLONS/CY (GAL/CY) RATIO	CONCRETE PLACEMENT	REMARKS
A	3,000 psi	optional	423 (4.5)	0.58	footings, grade beams	
B	4,000 psi	optional	517 (5.5)	0.48	mat foundation	crystalline waterproofing admixture
C	4,000 psi	≤ 3%	517 (5.5)	0.48	interior slabs-on-grade	synthetic fibers (1.5 lbs/cys)
D	4,500 psi	6% ± 1.5%	611 (6.5)	0.45	pedestals, foundation walls, tank structural elevated slabs, columns, beams, walls	crystalline waterproofing admixture
E	4,500 psi	6% ± 1.5%	611 (6.5)	0.40	exterior slabs-on-grade, stoops, curbs, & sidewalks exposed to de-icers	synthetic fibers (1.5 lbs/cys)

REINFORCING STEEL

- Reinforcing bar detailing, fabricating, and placing shall conform to the latest edition of the following standards: Specifications for Structural Concrete for Buildings (ACI 301), ACI Detailing Manual (SP66). The latest editions of Concrete Reinforcing Steel Institute's Reinforcing Bar Detailing and Placing Reinforcing Bars may also be used.
- Provide standard bar chairs, slab bolsters, spacers, etc. as required to maintain concrete protection specified. Reinforcing steel shall be tied to prevent displacement during concrete placement.
- Reinforcement bars shall not be tack welded, welded, heated or cut unless otherwise indicated or approved by the Structural Engineer.
- Welding of reinforcement bars, when approved by the Structural Engineer, shall conform to the latest edition of American Welding Society Standard D1.4. Electrodes for shop and field welding of reinforcement bars shall conform to ASTM A233, Class E90XX.
- Synthetic fibers shall be used for temperature and shrinkage reinforcement in concrete slabs-on-grade. Synthetic fibers shall be virgin (non-recycled) nylon or polypropylene fibers conforming to ASTM C1118, Type III. Fibers shall be introduced into the mix at the plant in accordance with the manufacturer's recommendations. The Contractor shall submit the mix design, including the fiber size and quantity, to the Structural Engineer for approval prior to construction. The Contractor shall take adequate measures to manage any difficulty in concrete finishing associated with the use of the fibers.
- Concrete cover over reinforcement, unless otherwise noted, shall be as specified in the latest editions of ACI 318 and ACI 350 with the most stringent requirements governing.
- Unless noted otherwise, splicing of reinforcing bars shall conform to the latest edition of ACI 318.

CONCRETE REINFORCING STEEL LAP SPLICE SCHEDULE			
BAR SIZE	TENSION SPLICE		COMPRESSION SPLICE
	TOP BAR	OTHER	
#3	21"	16"	12"
#4	28"	24"	15"
#5	35"	30"	19"
#6	42"	36"	23"
#7	49"	42"	26"
#8	56"	48"	30"
#9	63"	57"	34"
#10	76"	66"	38"
#11	93"	72"	42"

- Horizontal bars in walls, masonry bond beams, and continuous wall footings shall be bent at corners and intersections in such a way that continuity is provided through the joint. Separate corner bars of the same size and spacing as the horizontal reinforcing may be substituted for the bent portion of the continuous bars.
- Unless noted otherwise, provide 2-#5 bars (one each face) around unframed openings and diagonally at reentrant corners of vertical height offsets in concrete walls. Place bars parallel to the sides of the opening and extend 24 inches beyond corners.
- The Contractor shall prepare detailed working or shop drawings to enable him to fabricate, erect and construct all parts of the work in accordance with the drawings and specifications and shall submit one reproducible copy and one blue line copy to the Structural Engineer for review prior to fabrication. These shop drawings will be reviewed for design concepts only. The Contractor shall be responsible for all dimensions, accuracy, and fit of work.

MASONRY

- Engineered concrete masonry has been designed in accordance with the latest edition of the ACI Building Code Requirements for Masonry Structures (ACI 530/ASCE 5).
- Concrete masonry construction shall conform to the latest edition of the ACI Specifications for Masonry Structures (ACI 530.1/ASCE 6).
- Mortar shall be type N for interior non-load bearing walls. For exterior and load bearing walls, mortar shall be type M below grade and type S above grade. Mortar shall conform to the requirements of the latest edition of ASTM C270. Portland Cement-lime without air entrainment shall be used in the mortar mix.
- Provide standard spacers, etc. as required to prevent reinforcing steel displacement during grout placement.
- Provide reinforcing steel in vertical cores as indicated. In addition, provide reinforcing steel in vertical cores on each side of all openings and each corner of all walls. Grout cores with reinforcing steel solid.
- Reinforcing steel lap splices in concrete masonry shall be as indicated in the following table. All splices shall be wired together.

MASONRY REINFORCING STEEL LAP SPLICE SCHEDULE						
f _m = 2,000 psi						
BAR SIZE	#3	#4	#5	#6	#7	#8
8" CMU	1'-0"	1'-3"	2'-0"	3'-6"	4'-9"	7'-0"
10" CMU	1'-0"	1'-0"	1'-6"	2'-9"	3'-6"	5'-6"
12" CMU	1'-0"	1'-0"	1'-3"	2'-3"	3'-0"	4'-6"

- Masonry cores (where specified) and bond beams shall be filled with coarse grout conforming to the requirements of the latest edition of ASTM C476 and having a minimum 28-day compressive strength of 3,000 psi, 3/4 inch maximum aggregate, and an 8 to 11 inch maximum slump.
- Bearings for beams, lintels, joists, etc. shall be bond beams or hollow masonry units with cores filled solid with grout. The minimum bearing length shall be 8 inches unless otherwise indicated.
- The Contractor shall prepare detailed working or shop drawings to enable him to fabricate, erect and construct all parts of the work in accordance with the drawings and specifications and shall submit one reproducible copy and one blue line copy to the Structural Engineer for review prior to fabrication. These shop drawings will be reviewed for design concepts only. The Contractor shall be responsible for all dimensions, accuracy, and fit of work.

STRUCTURAL STEEL

- Structural steel detailing, fabrication and erection shall conform to the latest editions of the AISC Specification for Structural Steel Buildings, Allowable Stress Design and Plastic Design, and the AISC Code of Standard Practice for Steel Buildings and Bridges.
- Erector shall maintain minimum temporary bracing at each bay in each direction until the roof diaphragm and permanent lateral load resisting system construction are complete.
- Structural steel shall be shop-painted with a rust inhibiting primer. Steel which will be exposed to weather shall be hot-dip galvanized (G90 finish). All abrasions caused by handling after shop painting shall be touched-up after erection is complete.
- Design connections not shown in accordance with the latest AISC Specification and Manual of Steel Construction (allowable stress design method). Design simple span non-composite beam connections not shown to support one-half the beam load capacity as given in the AISC Uniform Load Constants for Beams Laterally Supported Tables. Connection angles shall be double web angles, 5/16" minimum thickness.
- Unless otherwise noted, bolted connections for structural steel members shall be bearing-type using 3/4" diameter ASTM A325 high strength bolts with standard 13/16" diameter holes tightened to the snug tight condition. Bolted wind brace connections shall be slip-critical-type (SC) using 3/4" diameter ASTM A325 high strength bolts with oversized 15/16" diameter holes tightened using the turn-of-nut method unless noted otherwise.
- High strength bolted connections shall conform to the latest edition of the Specification for Structural Joints Using ASTM A325 or A490 Bolts, approved by the Research Council on Structural Connections of the Engineering Foundation. Faying surfaces of slip-critical-type (SC) connections shall meet the minimum requirements for a Class A surface condition (mean slip coefficient not less than 0.33).
- Welding procedures shall conform to the latest edition of the American Welding Society's (AWS) Structural Welding Codes for: Steel ANSI/AWS D1.1 and Sheet Steel ANSI/AWS D1.3, and Reinforcing Steel ANSI/AWS D1.4.

- Welded connections using ASTM A572 and A992 steel as a base metal shall be made with E70XX Low Hydrogen electrodes. Unless otherwise noted, other welded connections shall be made with regular E70XX electrodes. Welding shall be performed only where shown and to the extent indicated.
- Field drilled holes shall be reamed, cleaned and deburred prior to assembly of the connection.
- Thermal cutting shall preferably be done by machine. Hand thermally cut edges which will be subjected to substantial stress, or which are to have weld metal deposited on them, shall be reasonably free from notches or gouges. Notches or gouges greater than 3/16" that remain from cutting shall be removed by grinding. Re-entrant corners shall be shaped notch-free to a radius of at least 1/2".
- Paint on surfaces adjacent to joints to be field welded shall be wire brushed to reduce the paint film to a minimum.
- Surfaces within 2' of any field weld shall be free of materials that would prevent proper welding or produce toxic fumes while welding is being done.
- Splicing of structural steel members where not detailed is prohibited without the prior approval of the Structural Engineer as to location, type of splice and connection to be made.
- Beams with specified camber shall be cambered upward. Beams without specified camber shall be fabricated so that after erection any minor camber due to rolling or shop assembly is upward.
- The minimum bearing length for all steel beams bearing on concrete or masonry shall be 8" for spans 8'-0" or less and 1'-4" for spans greater than 8'-0".
- Unless otherwise noted, provide a 5/8" thick steel bearing plate with two 1/2" diameter x 0'-6" stud anchors at the ends of steel beams bearing on concrete or masonry supports.
- Continuous beam cantilevers and other beams framing over the top of a column shall have a full height 3/8" web stiffener on each side of the beam, centered above the supporting column. The beam-to-column connection shall contain no less than 4 bolts (2 each side of beam).
- The Contractor shall prepare detailed working or shop drawings to enable him to fabricate, erect and construct all parts of the work in accordance with the drawings and specifications and shall submit one reproducible copy and one blue line copy to the Structural Engineer for review prior to fabrication. These shop drawings will be reviewed for design concepts only. The Contractor shall be responsible for all dimensions, accuracy, and fit of work.

STEEL JOISTS

- Steel bar joists shall be designed, fabricated, erected and braced in accordance with the latest Steel Joist Institute (SJI) specifications and the latest Occupational Safety & Health Administration (OSHA) regulations for open web steel joist erection (Standard 1926.757, Subpart R).
- Steel joists shall be fabricated in accordance with the design specification shown for each joist on the drawings. Where special design considerations apply, the design specification follows the form:

DD K SP TL/LL

where DD indicates the maximum permissible overall joist depth (manufacturer may use a lesser depth if economy dictates), K indicates the joist series, SP identifies the joist as "special", TL indicates the total design load (dead load plus live load) in pounds per lineal foot and LL indicates the design live load in pounds per lineal foot. Deflection due to live load shall be limited to 1/360 of the joist span.
- The joist supplier shall verify the adequacy of the sizes indicated for all joists with a slope in excess of 1/2 inch/foot and, in addition, those joists subjected to loadings other than uniform gravity loading, such as concentrated loads, snowdrift loads, or continuity forces indicated on the drawings. Deflection due to live load shall be limited to 1/360 of the joist span.
- Where end anchorages for steel joists are not shown, provide minimum anchorages as required by the SJI specifications.
- Unless otherwise noted, steel joist end bearing depths shall be 2 1/2" for K-Series and 5" for LH and DLH-Series.
- Horizontal bridging and diagonal bridging for steel joists shall be located and designed as required by the SJI specifications and the OSHA regulations. Bridging members shall be connected to the joist chords by welding or other mechanical means. The bridging and its connections must be capable of transferring the forces as required by the SJI. The ends of bridging lines terminating at concrete block walls or steel beams shall be securely anchored thereto at top and bottom chords.
- Hangers and other supports for mechanical, electrical, or plumbing systems shall be located at the intersection of the chord and web members. Concentrated loads in excess of 200 pounds must be approved by the Structural Engineer.
- Where columns are not framed in at least two directions with solid web structural steel members (beams), the joists ("OSHA joists") at each column line shall be field-bolted to the supporting members during erection. A 6" x 6" vertical stabilizer plate shall be provided on each column between the joist bottom chord angles to stabilize the bottom chord and to brace the joist against rotation during erection. The stabilizer shall extend at least 3" below the joist bottom chord and shall have a 13/16" diameter hole for plumbing/guying cable attachment. Do not weld the joist bottom chord angles to the stabilizer plates. Where constructability does not allow a steel joist to be installed at a column, the joist nearest the column on each side shall be field-bolted and stabilized in a similar manner as described above with vertical plates attached to the supporting beams or joist girders.
- The Contractor shall prepare detailed working or shop drawings to enable him to fabricate, erect and construct all parts of the work in accordance with the drawings and specifications and shall submit one reproducible copy and one blue line copy to the Structural Engineer for review prior to fabrication. Joist bracing as required by the manufacturer shall be shown on these drawings. These shop drawings will be reviewed for design concepts only. The Contractor shall be responsible for all dimensions, accuracy, and fit of work.

STEEL DECK

- Provide and erect roof deck in accordance with the latest edition of the Steel Deck Institute's Specifications and Code of Standard Practice.
- Steel roof deck and accessories shall be galvanized, aluminumized or shop painted with a rust inhibiting primer. Deck which will be exposed to weather shall have one additional finish coat (field applied).
- Abrasions caused by handling shall be touched-up after erection is complete.
- Deck manufacturer shall provide all roof deck accessories, including closures, supplementary framing, and sump pans, whether or not such items are detailed in the Contract Documents.
- Roof deck shall be attached to the structural steel in accordance with the details shown in the plans. Welding shall be performed in accordance with the latest edition of the American Welding Society's Structural Welding Code - Sheet Steel ANSI/AWS D1.3.
- Field paint puddle welds to roof deck after erection.
- All deck shall be three or more spans continuous unless otherwise noted.
- Suspended ceilings, light fixtures, ducts, etc. shall not be supported by the steel roof deck.

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REGISTERED PROFESSIONAL ENGINEER
 STATE OF INDIANA
 No. 45473
 04/10/2024

Signature: _____ Date: _____

CE Solutions
 structural engineers

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CITY OF ROCKPORT
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 WASTEWATER LTCP PHASE 4
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No.	Submitted / Revision	Date
	By	

Designed By: _____ Drawn By: _____ Checked By: _____

MRM RMS AMS

Issue Date: 04/10/24 Project No: 22-182 Scale: 12" = 1'-0"

GENERAL STRUCTURAL NOTES - 01

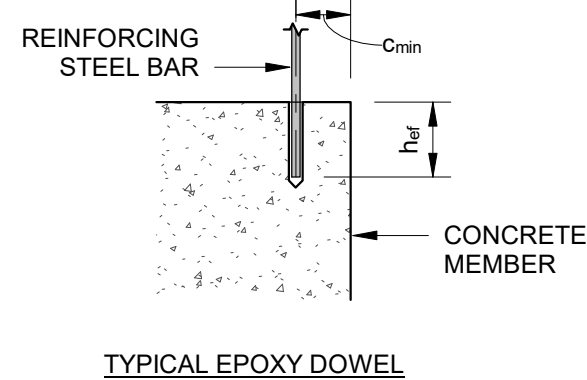
Drawing No: **S0-1**

Sheet: 122 OF 177

POST-INSTALLED EXPANSION/ADHESIVE ANCHORS

- 1. Post-installed anchors shall only be used where specified on the Construction Documents. The Contractor shall obtain approval from the Structural Engineer prior to installing the post-installed anchors in place of missing or misplaced cast-in-place anchors.
2. Care shall be taken in placing post-installed anchors to avoid conflicts with existing reinforcing steel.
3. Post-installed anchors shall be installed by qualified personnel in accordance with the drawings and specifications.
4. Post-installed anchors shall be installed by qualified personnel in accordance with the Manufacturer's Printed Installation Instructions (MPII), the drawings and specifications. Installation of adhesive anchors shall be performed by personnel trained to install adhesive anchors. Contractor shall submit installer training cards with anchor package.
5. Post-installed anchors shall be HILTI type as manufactured by HILTI Fastening Systems or approved equivalent. Substitution requests must be submitted by the Contractor to the Structural Engineer for review. Provide back-up technical data that demonstrates that the substituted product is capable of achieving the equivalent performance values (minimum) of the specified products using the appropriate design procedure and/or standard(s) as required by the building code.
6. Masonry cores receiving post-installed anchors shall be filled with course grout. Grout must comply with IBC Section 2103.12 or IRC Section R609.1.1, as applicable. Alternatively, the grout must have a minimum compressive strength, when tested in accordance with ASTM C1019, equal to its specified strength, but not less than 2,000 psi. Post-installed anchors shall not be installed in a masonry mortar joint.
7. The Contractor shall inspect the masonry or concrete surface at each proposed post-installed anchor location prior to installation. If the anchor locations align with mortar joints or the masonry or concrete is honeycombed, cracked or otherwise unsound, the post-installed anchors shall be repositioned so as to be located in sound material and be in accordance with the manufacturer's minimum spacing and edge distance requirements.
8. Adhesive anchors shall be subject to the following additional requirements:
A. Anchors shall meet the requirements of ACI 308.4R (mechanical anchors) and ACI 308.4 (adhesive anchors).
B. Anchors shall not be installed in concrete cured less than 21-days
C. Anchors shall not be installed until the concrete has reached a minimum compressive strength of 2,500 psi.
D. Concrete temperature must be greater than 50 °F and less than 80 °F prior to installation of the anchors unless otherwise permitted by the MPII.
E. Anchors shall be installed in holes drilled with the HILTI Hollow Drill Bit (TE-CD (SDS Plus) or TE-YD (SDS Max)) and HILTI VC 20/40 Vacuum (VC 20-U or VC 40-U). Follow the MPII for size and depth of holes required.
F. The acceptability of certification other than the ACI/CRSI Adhesive Anchor Installer Certification shall be the responsibility of the Structural Engineer.
G. Adhesive anchors installed in horizontal or upwardly inclined orientations to resist sustained tension loads shall be continuously inspected during installation by an inspector specially approved for that purpose by the building official. The special inspector shall furnish a report to the licensed design professional and building official that the work covered by the report has been performed and that the materials used and the installation procedures used conform to the approved contract documents and MPII.

REINFORCING STEEL EPOXY DOWEL SCHEDULE table with columns: BAR SIZE, #3, #4, #5, #6, #7, #8 and rows: STANDED EFFECTIVE EMBED, MINIMUM EDGE DISTANCE.



- NOTES:
1. EPOXY DOWELS SHALL UTILIZE HILTI HIT-HY 200 V3 ADHESIVE SYSTEM OR APPROVED EQUIVALENT
2. STANDARD EMBED DEPTH AND MIN EDGE DISTANCES PROVIDED IN THIS SCHEDULE APPLY AT ALL LOCATIONS UNLESS OTHERWISE NOTED ON SECTIONS AND DETAILS.

NON-SHRINK GROUT

- 1. Grout shall be a high early strength, non-metallic, shrinkage resistant (when tested in accordance with the latest edition of ASTM C827 or CRD-C621), premixed, non-corrosive, non-staining product conforming to the requirements of the latest edition of ASTM C1107 and containing Portland Cement, silica sands, shrinkage compensating agents and fluidity improving compounds.
2. Grout compressive strength tests shall be performed in accordance with the latest edition of ASTM C109, with a restraining plate placed over the molds.
3. Grout shall be installed in accordance with the manufacturer's instructions.
4. Grout shall be placed in a flowable state and shall have forms built around it for confinement. Grout shall be cured according to manufacturer's recommendations.

STRUCTURAL LUMBER

- 1. Structural lumber shall be detailed, fabricated and erected in accordance with the latest editions of the Timber Construction Manual by the American Institute of Timber Construction (AITC) and the National Design Specification for Wood Construction by the American Forest & Paper Association (ANSI/AF&PA NDS).
2. Bolts, lag screws, nails and other wood fastenings, unless otherwise noted, shall conform to the latest edition of the National Design Specification for Wood Construction. Standard cut washers shall be used between the wood and bolt head and the wood and nut.
3. Joist hangers and connection plates shall be as manufactured by Simpson Strong-Tie Company, Inc. or approved equivalent. Hardware used with PPT wood to be hot-dip galvanized or stainless steel. Hardware exposed to weather conditions shall be hot-dip galvanized.
4. Wood members that are in contact with concrete or masonry or exposed to weather shall be pressure treated with a water borne treatment to a net retention level of 0.3 pcf in accordance with applicable American Wood Preservers' Association latest requirements.
5. Rough sawn timbers shall be treated and finished where specified. Ends exposed to weather shall be treated with CCA.
6. Connections not specifically detailed herein shall be per Table 2304.9.1 of the 2012 International Building Code.

PLYWOOD/PERFORMANCE RATED PANELS

- 1. Plywood and performance rated panels (oriented strand board) shall be detailed, fabricated and erected in accordance with the latest criteria established by the American Plywood Association (APA) including their latest edition of the Plywood Design Specification (and its Supplements).
2. Plywood panels shall be identified with the appropriate trademark of the APA and shall meet the requirements of the latest edition of the U.S. Product Standard PS 1 for Construction and Industrial Plywood. Performance rated panels shall be identified with the appropriate trademark of the APA and shall meet the requirements of the latest edition of the APA PRP-108 Performance Standards and Policies for Structural-Use Panels, or the U.S. Product Standard PS 2 for Wood-Based Structural-Use Panels.
3. Roof panels shall be installed with the long dimension (face grain) across the supports with panels continuous over 2 or more supports (minimum 3 span condition).
4. Stagger panel end joints. End joints shall only occur over a support. Unless recommended otherwise by the panel manufacturer, provide a 1/8" gap between panel ends and edges. Panel edges shall be tongue-and-groove or supported on 2" (nominal) lumber blocking installed between joists. Wall panel edges shall be supported on 2" (nominal) lumber blocking installed between studs.
5. Unless otherwise noted, panels shall be fastened to their supports as follows:
A. Roof panels (APA Performance Rated Sheathing):
6" o.c. along supported panel edges and 12" o.c. at intermediate supports. Use 8d galvanized common nails with 1 1/2" minimum penetration into supporting framing members. Galvanized nails shall be hot dipped or tumbled.
B. Walls (APA Performance Rated Sheathing):
6" o.c. along supported panel edges and 12" o.c. at intermediate supports. Use 8d galvanized common nails with 1 1/2" minimum penetration into supporting framing members. Galvanized nails shall be hot dipped or tumbled.

METAL-PLATE-CONNECTED WOOD TRUSSES

- 1. Prefabricated wood trusses shall be detailed, fabricated and erected in accordance with the latest editions of the Timber Construction Manual by the American Institute of Timber Construction (AITC) and the National Design Specification for Wood Construction by the American Forest & Paper Association (ANSI/AF&PA NDS) and the latest criteria established by the Truss Plate Institute (TPI) and the Wood Truss Council of America (WTCA).
2. Temporary and permanent bracing of wood trusses shall be in accordance with the latest edition of the Commentary and Recommendations for Handling, Installing and Bracing Metal Plate Connected Wood Trusses (HIB) by the TPI.
3. Wood roof trusses shall be designed to support the following superimposed loads in addition to the weight of the trusses:
Top Chord Dead Load 10 psf
Top Chord Live Load 25 psf
Bottom Chord Dead Load 10 psf
Bottom Chord Live Load 20 psf
4. Deflection due to live load shall be limited to 1/360 of the truss span. For truss cantilevers, the deflection due to live load at the end of the cantilever shall be limited to 1/180 of the cantilever dimension.
5. Truss plates shall be galvanized steel and shall be applied to both faces of the members being connected.
6. Trusses shall conform to the geometry shown. Minimum lumber size for top and bottom chord members shall be 2"x 4" (nominal). Web member size and configuration shall be the option of the fabricator.
7. The truss manufacturer shall prepare detailed working or shop drawings and shall submit one reproducible copy and one blue line copy, including calculations, to the Structural Engineer for review prior to fabrication. These drawings and calculations shall show the design forces in the truss members, the sizes of the truss plates, the lumber species, commercial grade and normal duration design values, required bracing and details necessary to enable the truss manufacturer to fabricate, erect and construct all parts of the work in accordance with the drawings and specifications. These shop drawings will be reviewed for design concepts only. The truss manufacturer shall be responsible for all dimensions, accuracy, and fit of work. The trusses shall be designed by, and the shop drawings and calculations shall bear the seal and signature of, a registered professional engineer in the State of Indiana.
8. The contractor shall install all permanent truss bracing as shown on the truss manufacturer's shop drawings.

COORDINATION WITH OTHER TRADES

- 1. The Contractor shall coordinate and check all dimensions relating to architectural finishes, structural framing, mechanical openings, equipment, etc. The Structural Engineer shall be notified of any discrepancies before proceeding with work in an area under question.
2. The Crane / Hoist / Monorail Track System manufacturer shall prepare detailed working or shop drawings to enable fabrication, erection, and construction of all parts of the work in accordance with the drawings and specifications and shall submit one reproducible copy and one blue line copy to the Structural Engineer for review prior to fabrication. These shop drawings shall show the design loads, plans, elevations, sections, connections, required bracing, attachments to other work, and details necessary for Crane / Hoist / Monorail Track System manufacturer to fabricate, erect and construct all parts of the work. These shop drawings will be reviewed for design concepts only. The Crane / Hoist / Monorail Track System manufacturer shall be responsible for all dimensions, accuracy, and fit of work.

SPECIAL NOTES TO THE OWNER

- 1. Under normal conditions and for conventional buildings structures such as the subject structure, reinforced concrete will develop cracks. The cracks are due to inherent shrinkage of the concrete, creep, ambient temperature variation, and restraining effects of vertical and other structural elements.
2. The cracks formed are normally cosmetic. The concrete maintains its serviceability and strength requirements. It is possible that a number of hairline cracks, which would normally spread over a wide area, will integrate into a single crack with a width exceeding 0.01 inch. It is emphasized that although special effort is made to reduce the potential causes and number of such cracks, it is not practical to provide total articulation and thereby achieve complete inhibition of all cracks.
3. The majority of these cracks develop within the first three years of service. Cracks which are wider than 0.01 inch may require sealing or epoxy injection.
4. The object of the joints provided in the structure is to allow movement. Movements due to creep and shrinkage may be noticeable at joints up to two years after construction, beyond which movements due to variations in temperature will persist.

DESIGN

- 1. Building Code: Indiana Building Code, 2014 Edition (2012 International Building Code, first printing, with Indiana Amendments).
2. Soil information:
Allowable net bearing pressure: All structures unless noted otherwise 1000 psf
Sludge Drying Beds and Chem. Feed & Elec. Bldg. 2000 psf
SBR Facility and UV and Cascade Aeration Structure 4000 psf
*Foundations for these structures shall be founded on soil enhanced with Rammed Aggregate Piers. All foundation excavations shall be inspected and approved by the geotechnical engineer for the bearing capacity indicated above prior to placing concrete.
Unit weight of soil 115 pcf
Equivalent fluid pressure on tank walls 90 psf / ft
3. Concrete:
28 day compressive strength (Fc) See Schedule
4. Masonry:
28 day compressive strength (Fm) 2000 psi
5. Reinforcing steel (deformed bars of new billet steel):
Stirrup and tie ASTM A615, Grade 60
Weldable (Low-Alloy) ASTM A706, Grade 60
Otherwise ASTM A615, Grade 60
Welded wire fabric (smooth) ASTM A185
6. Structural Steel:
Structural tubing members ASTM A500, Grade C
Fy = 50 ksi
Structural steel pipe members ASTM A53, Type E or S, Grade B Fy = 35 ksi
ASTM A992 Fy = 50 ksi
Structural steel rolled wide flange W shapes (as an alternate, ASTM A572, Grade 50 may be used)
Structural steel rolled S, M, and HP shapes & channels ASTM A36
Structural steel rolled plates & angles ASTM A36
All other members ASTM A108
Composite beam shear connectors (cold-drawn) ASTM A325N
Anchor bolts ASTM A36
7. Non-shrink grout:
28 day compressive strength 6,500 psi
8. Structural Lumber (surfaced dry, used at 19% moisture content) unless noted otherwise:
Southern Pine, No. 1
Spruce-Pine-Fir, No. 2
ANSI/ASME B18.2
ASTM F1667, Common Wire
9. Live loads:
Roof: 25 psf with drift considerations
100 psf
Floor:
10. Live Load Deflection Limitation:
Roof L/360
11. Risk Category
III
12. Wind loads:
Basic wind speed (3-second gust) 120 mph
Exposure C
13. Seismic loads:
Seismic importance factor, Ie 1.25
Mapped Spectral Response Acceleration at Short Periods, Ss 42.1% g
Mapped Spectral Response Acceleration at 1 Second, S1 16.5% g
Site Class D
Design Spectral Response Acceleration at Short Periods, Sds 41.1% g
Design Spectral Response Acceleration at 1 Second, Sd1 23.5% g
Seismic Design Category C

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Professional Engineer seal for William Murray, State of Indiana, PE11500002, dated 04/10/2024.

CE Solutions logo and contact information for structural engineers, including phone number 877.928.9322 and website ceengineers.com.

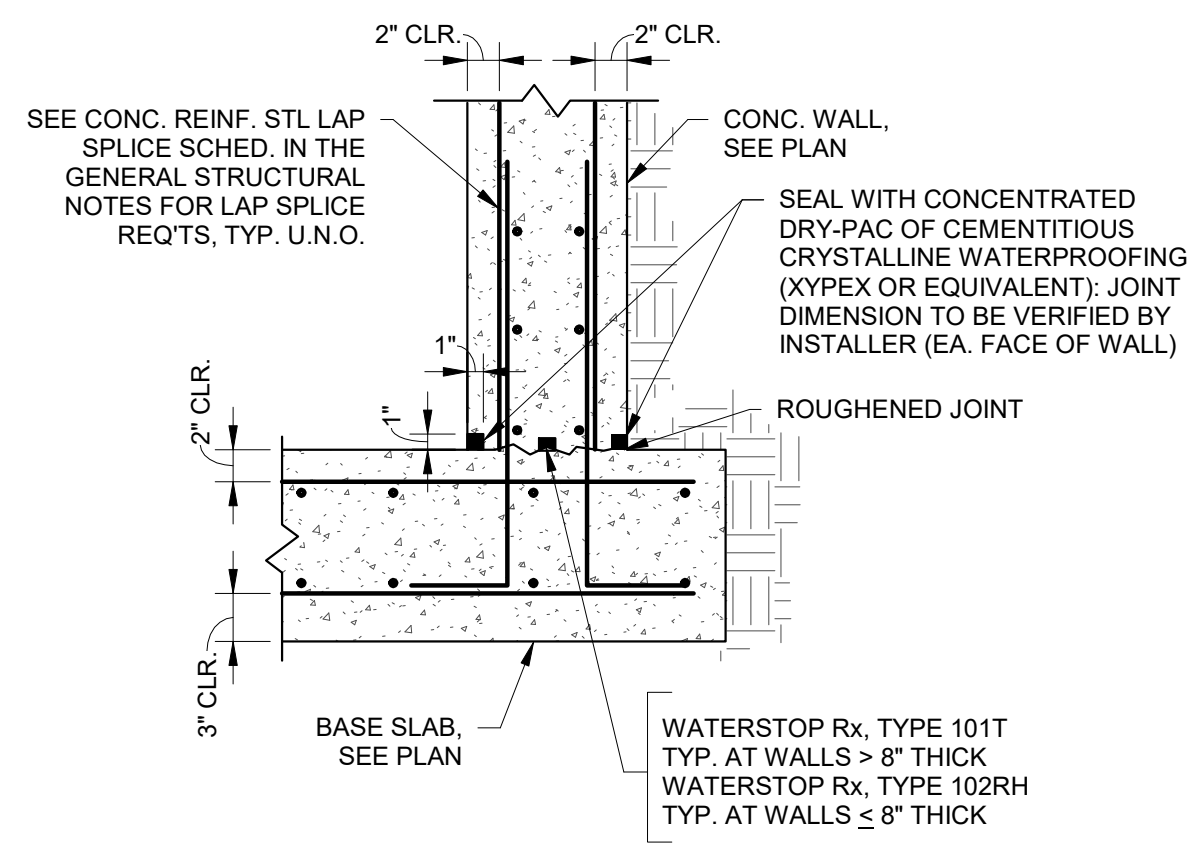
Project title block: CITY OF ROCKPORT, INDIANA; SPENCER COUNTY, INDIANA; WASTEWATER LTCP PHASE 4 PROJECT; DIVISION "A" - WWTP

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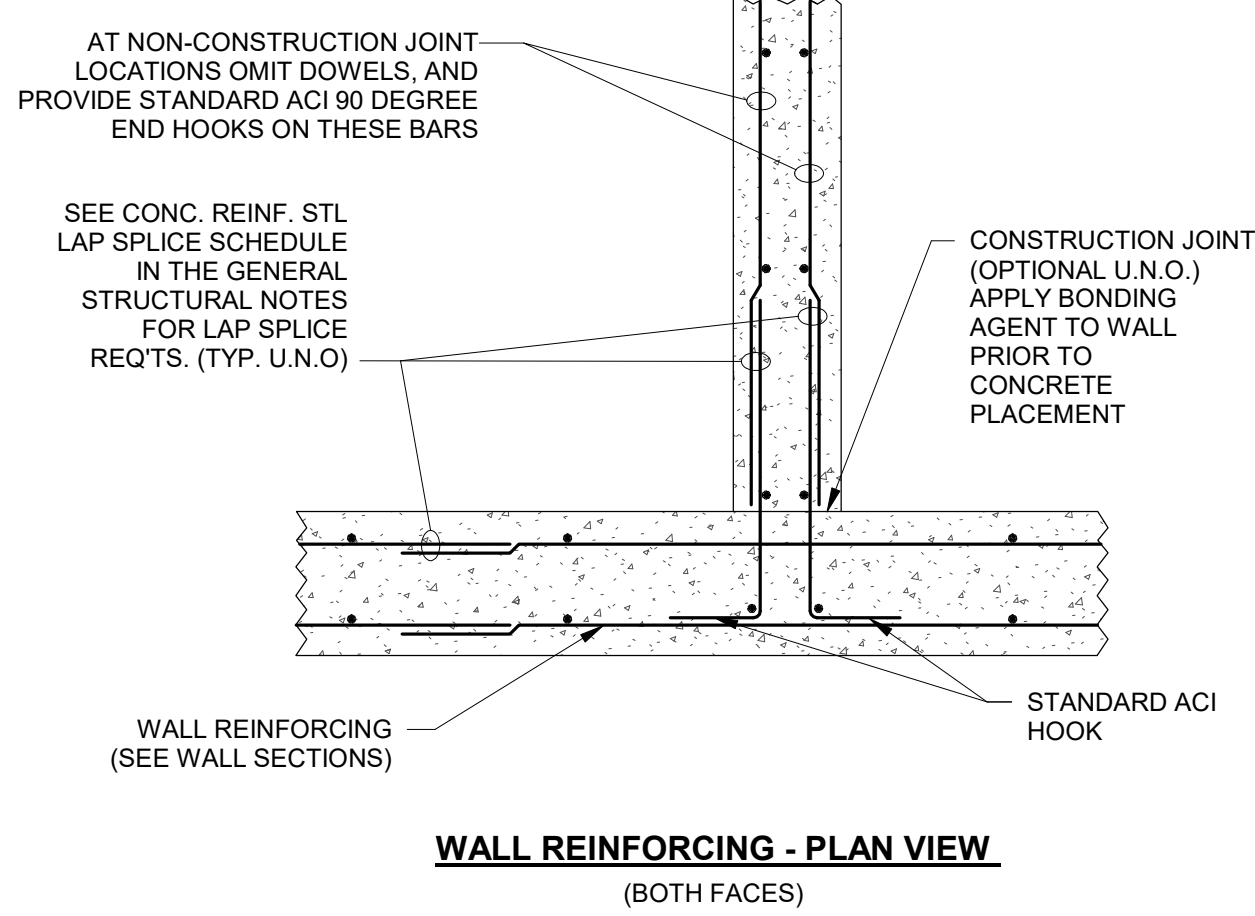
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Design information table: Designed By: MRM, Drawn By: RMS, Checked By: AMS, Issue Date: 04/10/24, Project No: 22-182, Scale: 12" = 1'-0"

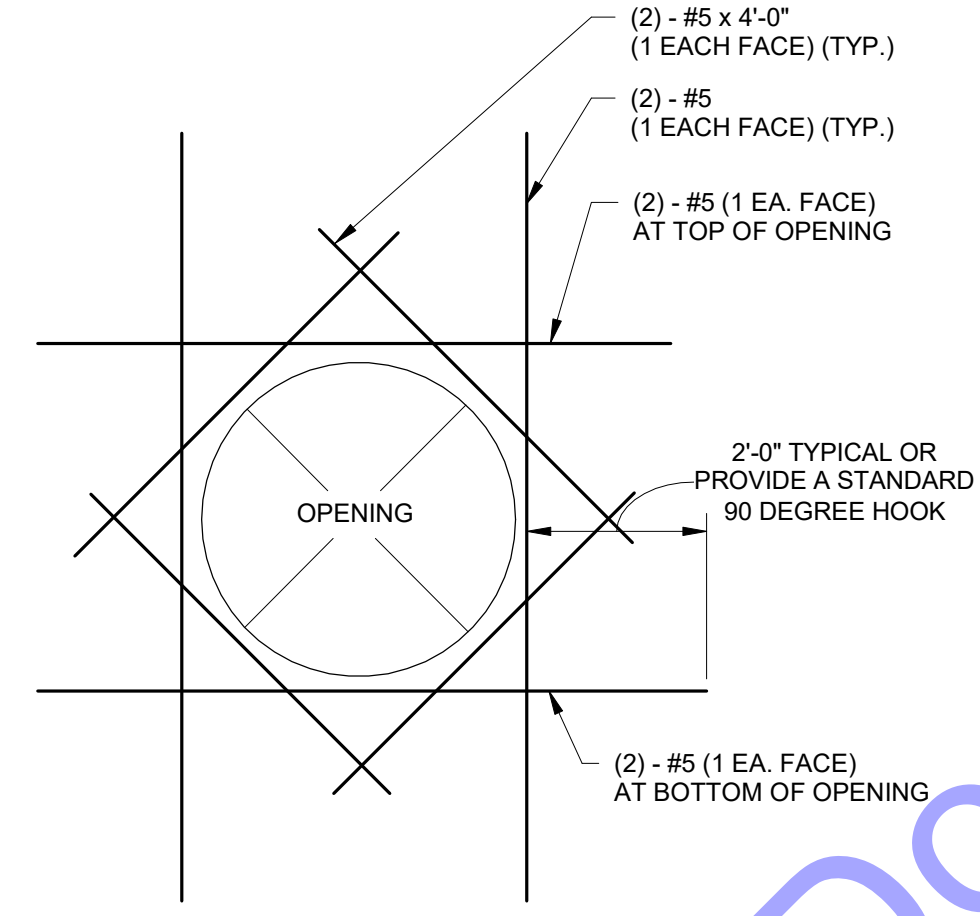
GENERAL STRUCTURAL NOTES - 02



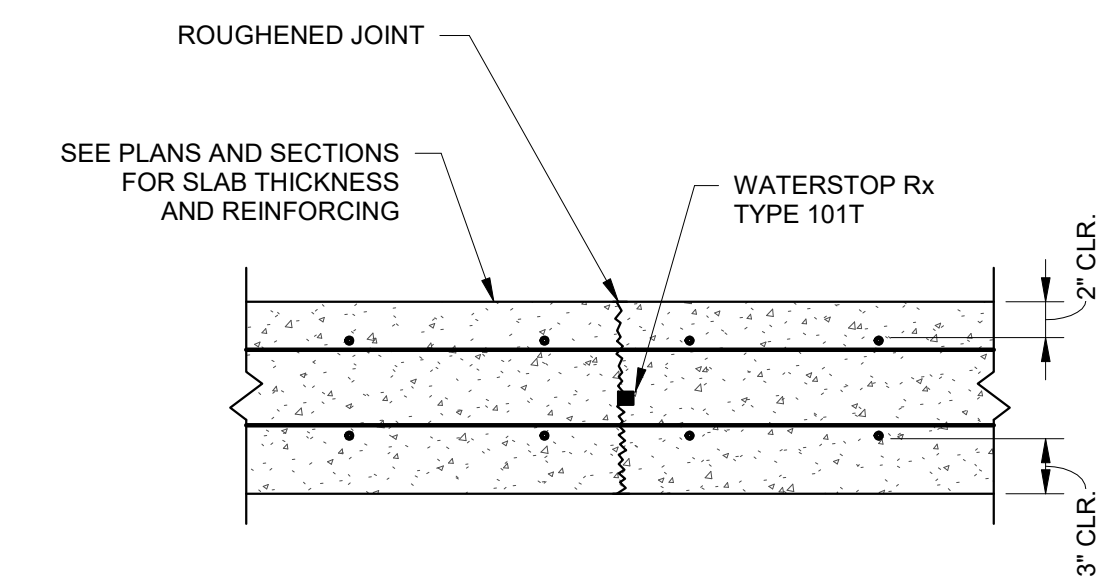
8 TYP. WALL TO BASE SLAB
S0-3 1" = 1'-0"



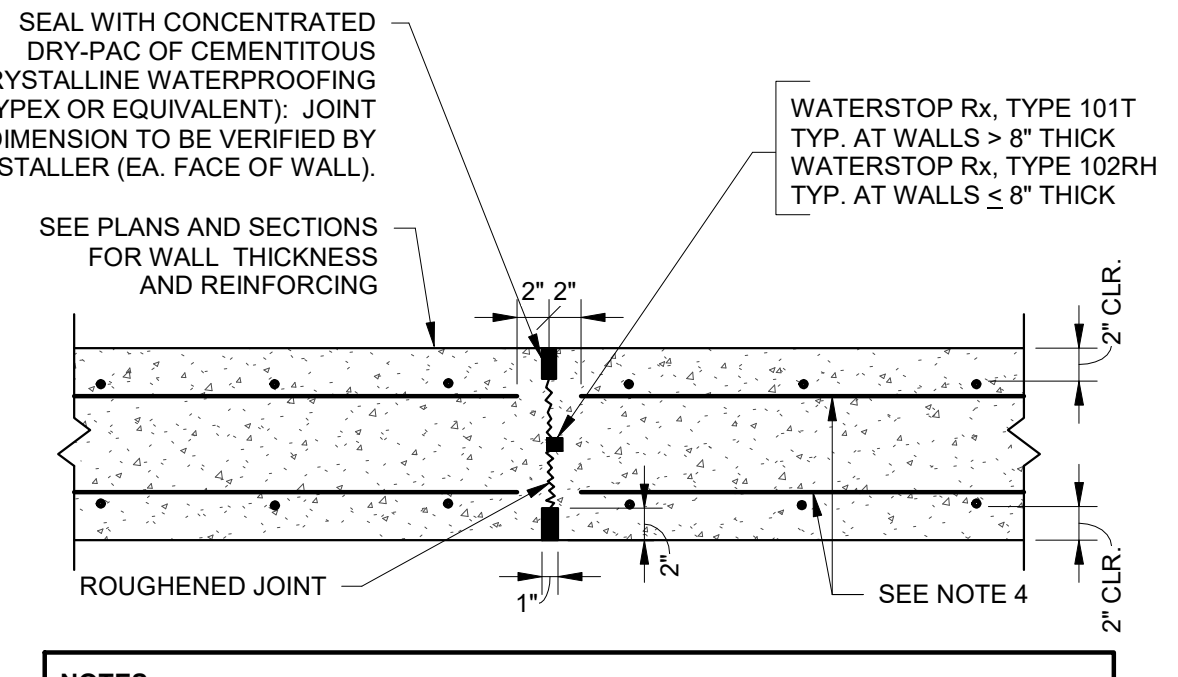
5 TYP. CONC. WALL INTERSECTION
S0-3 1/8" = 1'-0"



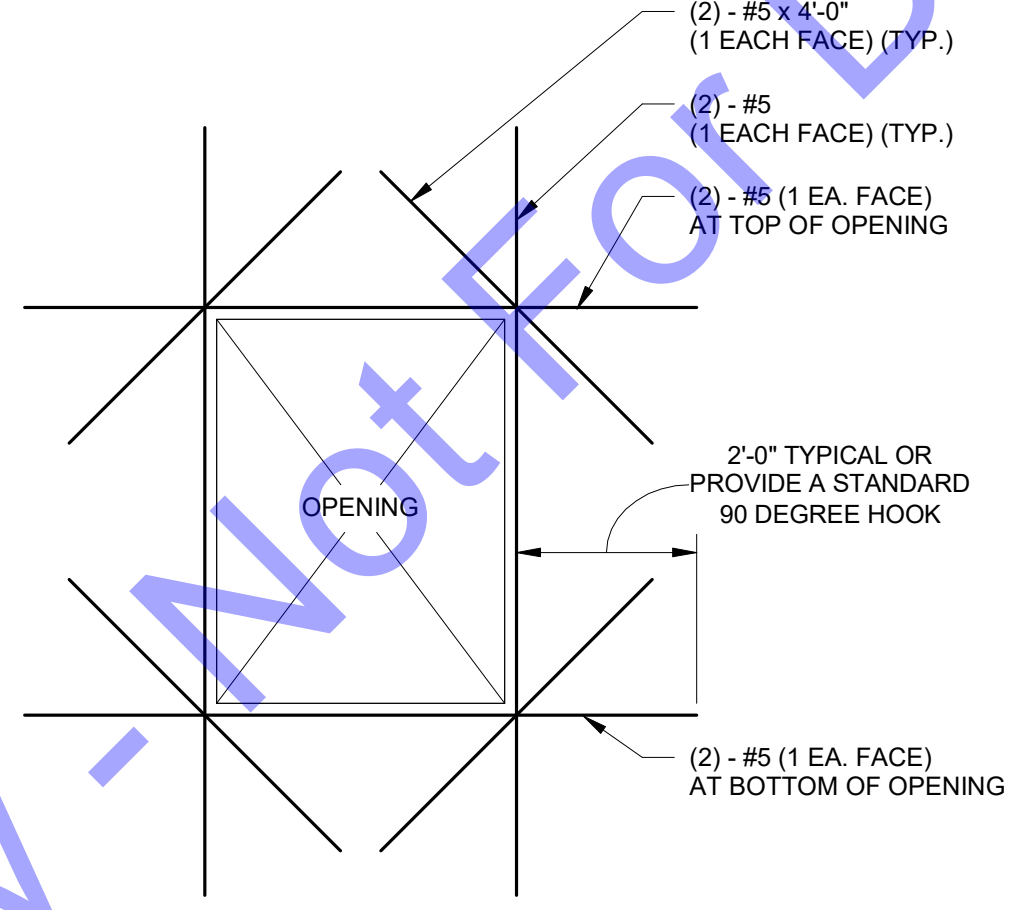
1 TYP. FOOTING IN UNDERCUT AREA
S0-3 1" = 1'-0"



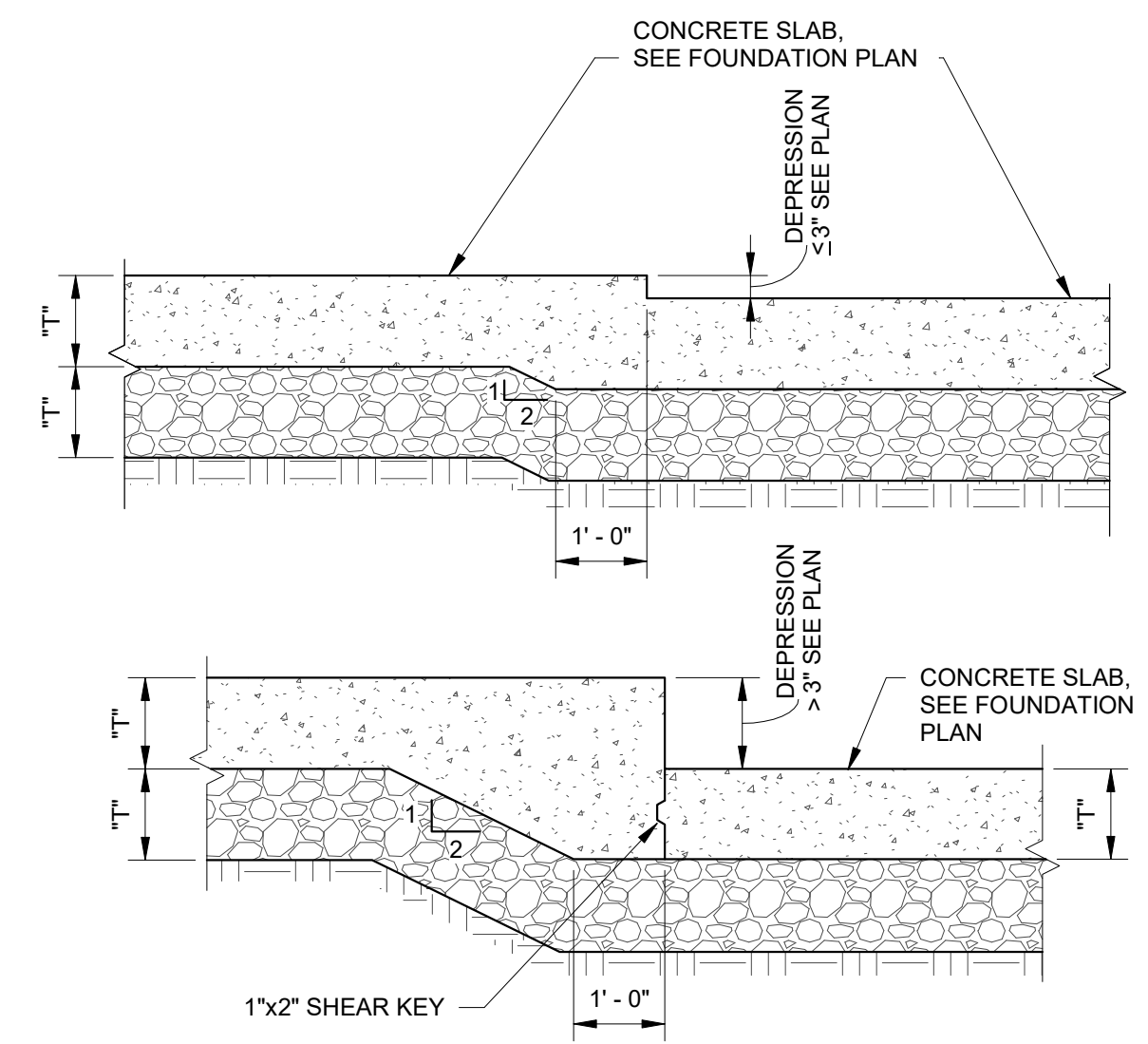
9 TYP. BASE SLAB CONSTRUCTION JT.
S0-3 1" = 1'-0"



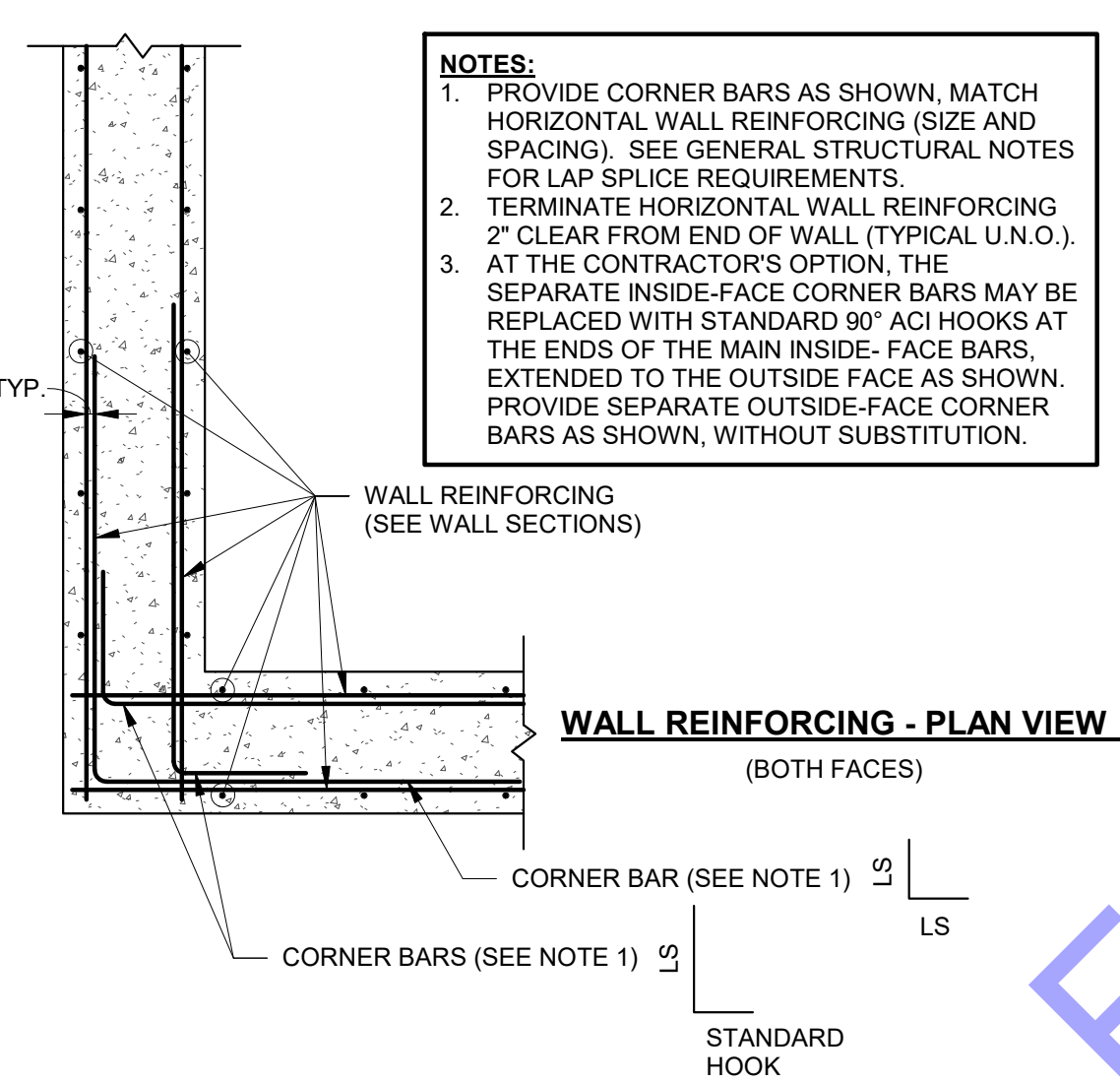
6 TYP. WALL CONSTRUCTION JOINT
S0-3 1" = 1'-0"



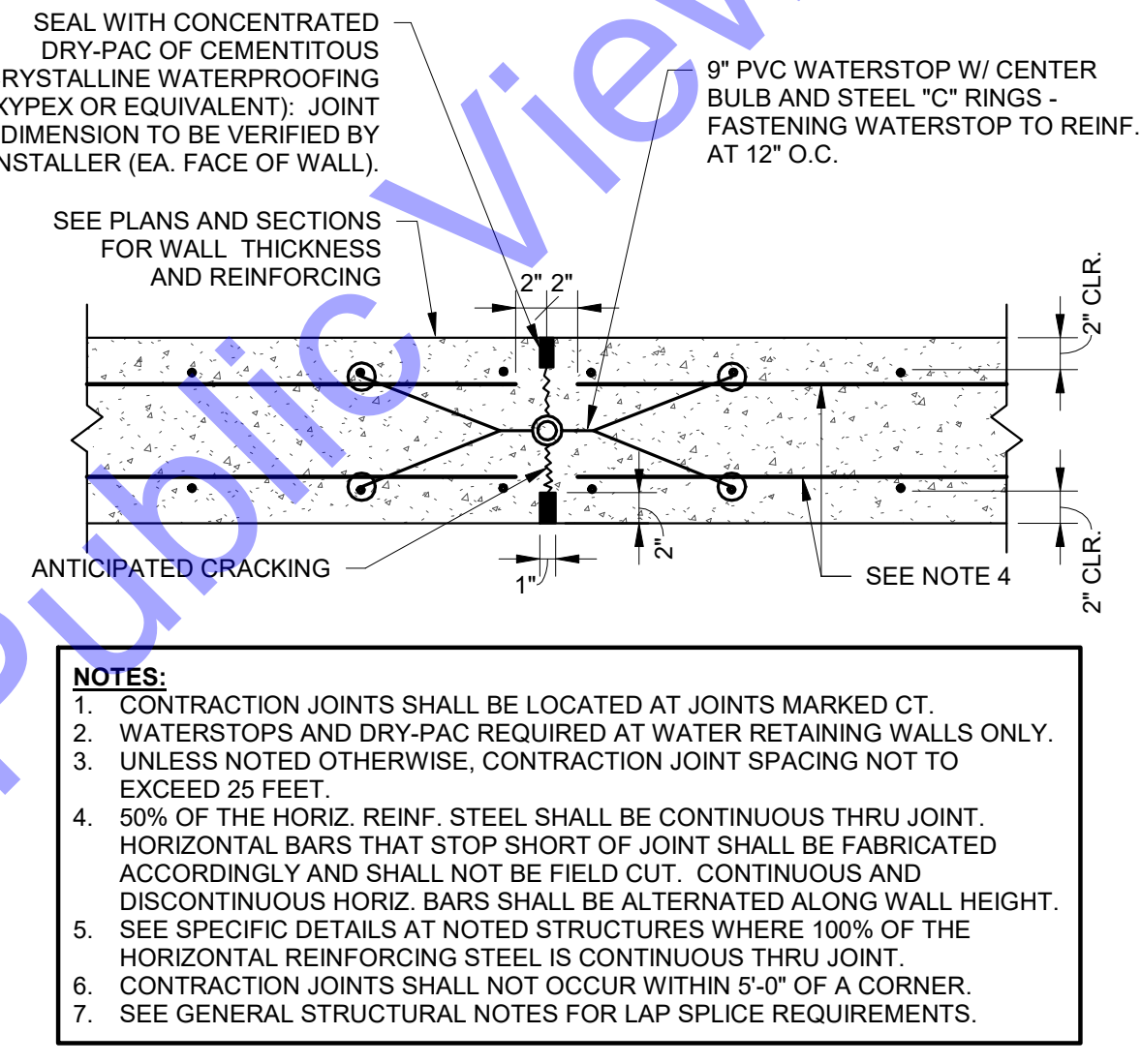
3 TYP. OPENING IN CONCRETE WALL
S0-3 1/8" = 1'-0"



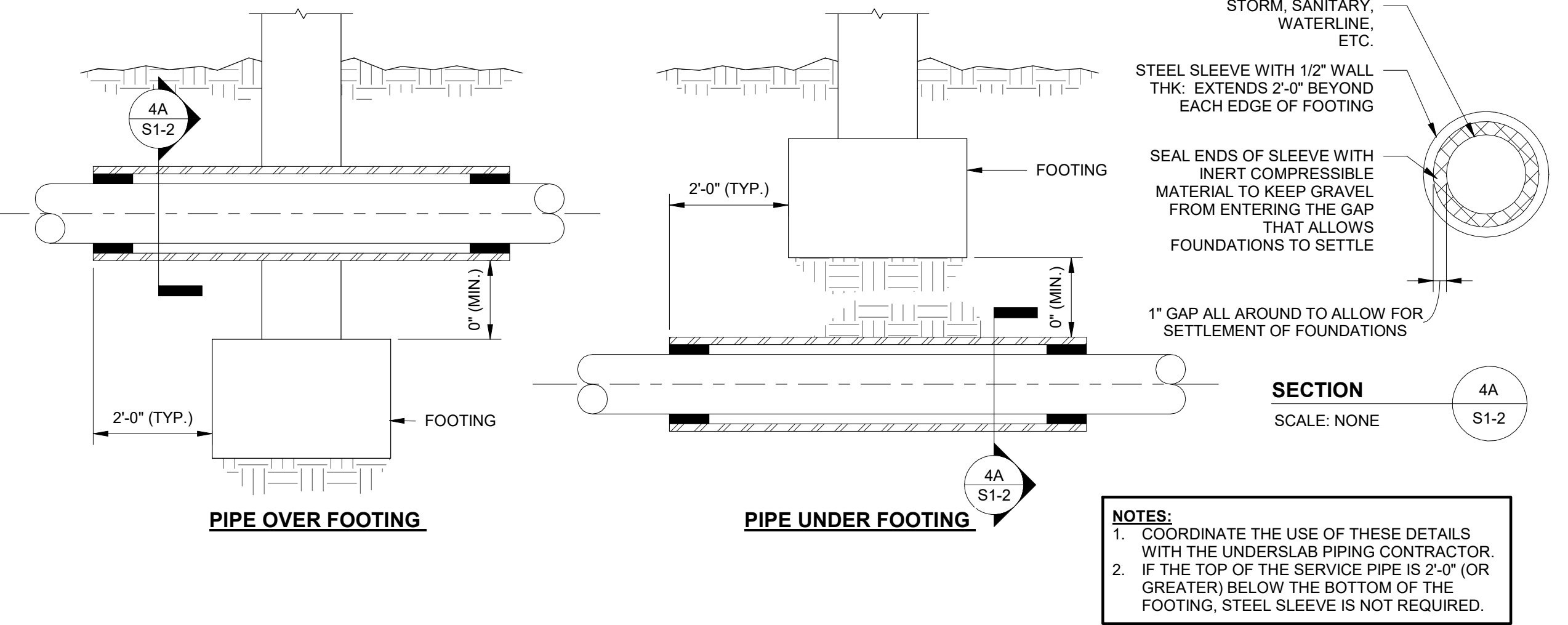
2 SLAB DEPRESSION DETAIL
S0-3 1/2" = 1'-0"



10 TYPICAL CONCRETE WALL CORNER REINFORCEMENT - PLAN VIEW
S0-3 3/4" = 1'-0"



7 TYP. WALL CONTRACTION JOINT
S0-3 1" = 1'-0"



4 TYP. UNDERGROUND SERVICE PIPE DETAIL AT WALL FOUNDATION
S0-3 1/8" = 1'-0"

NOTES:
1. DEWATER EXCAVATION AS REQUIRED.
2. WIDTH OF EXCAVATION SHALL EQUAL WIDTH OF FOOTING PLUS DEPTH OF UNDERCUT (W=B+D).

NOTES:
1. ALL REINFORCING TO BE CONTINUOUS THRU JOINT.
2. CONSTRUCTION JOINT SPACING NOT TO EXCEED 75'-0\"/>

NOTES:
1. CONSTRUCTION JOINTS SHALL BE LOCATED AT JOINTS MARKED CJ.
2. WATERSTOPS AND DRY-PAC REQUIRED AT WATER RETAINING WALLS ONLY. UNLESS NOTED OTHERWISE, CONSTRUCTION JOINT SPACING NOT TO EXCEED 75 FEET.
3. 50% OF THE HORIZ. REINF. STEEL SHALL BE CONTINUOUS THRU JOINT. HORIZONTAL BARS THAT STOP SHORT OF JOINT SHALL BE FABRICATED ACCORDINGLY AND SHALL NOT BE FIELD CUT. CONTINUOUS AND DISCONTINUOUS HORIZ. BARS SHALL BE ALTERNATED ALONG WALL HEIGHT.
4. SEE SPECIFIC DETAILS AT NOTED STRUCTURES WHERE 100% OF THE HORIZONTAL REINFORCING STEEL IS CONTINUOUS THRU JOINT.
5. CONSTRUCTION JOINTS SHALL NOT OCCUR WITHIN 5'-0\"/>

NOTES:
1. WHERE VERTICAL REINFORCING IS INTERRUPTED BY THE OPENING, ONE HALF OF THE INTERRUPTED STEEL SHALL BE ADDED TO EACH SIDE OF THE OPENING. USE FULL LENGTH BARS.
2. THIS DETAIL APPLIES TO ALL OPENINGS IN CONCRETE WALLS UNLESS DETAILED OTHERWISE ON THE PLANS.

NOTES:
1. PROVIDE CORNER BARS AS SHOWN, MATCH HORIZONTAL WALL REINFORCING (SIZE AND SPACING). SEE GENERAL STRUCTURAL NOTES FOR LAP SPLICE REQUIREMENTS.
2. TERMINATE HORIZONTAL WALL REINFORCING 2\"/>

NOTES:
1. CONTRACTION JOINTS SHALL BE LOCATED AT JOINTS MARKED CT.
2. WATERSTOPS AND DRY-PAC REQUIRED AT WATER RETAINING WALLS ONLY. UNLESS NOTED OTHERWISE, CONTRACTION JOINT SPACING NOT TO EXCEED 25 FEET.
3. 50% OF THE HORIZ. REINF. STEEL SHALL BE CONTINUOUS THRU JOINT. HORIZONTAL BARS THAT STOP SHORT OF JOINT SHALL BE FABRICATED ACCORDINGLY AND SHALL NOT BE FIELD CUT. CONTINUOUS AND DISCONTINUOUS HORIZ. BARS SHALL BE ALTERNATED ALONG WALL HEIGHT.
4. SEE SPECIFIC DETAILS AT NOTED STRUCTURES WHERE 100% OF THE HORIZONTAL REINFORCING STEEL IS CONTINUOUS THRU JOINT.
5. CONSTRUCTION JOINTS SHALL NOT OCCUR WITHIN 5'-0\"/>

NOTES:
1. COORDINATE THE USE OF THESE DETAILS WITH THE UNDERSLAB PIPING CONTRACTOR.
2. IF THE TOP OF THE SERVICE PIPE IS 2'-0\"/>

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Professional Engineer
STATE OF INDIANA
PE11500002
Signature: *Mark Murray* Date: 04/10/2024

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SPENCER COUNTY, INDIANA
WASTEWATER LTCP PHASE 4
PROJECT
DIVISION "A" - WWTP**

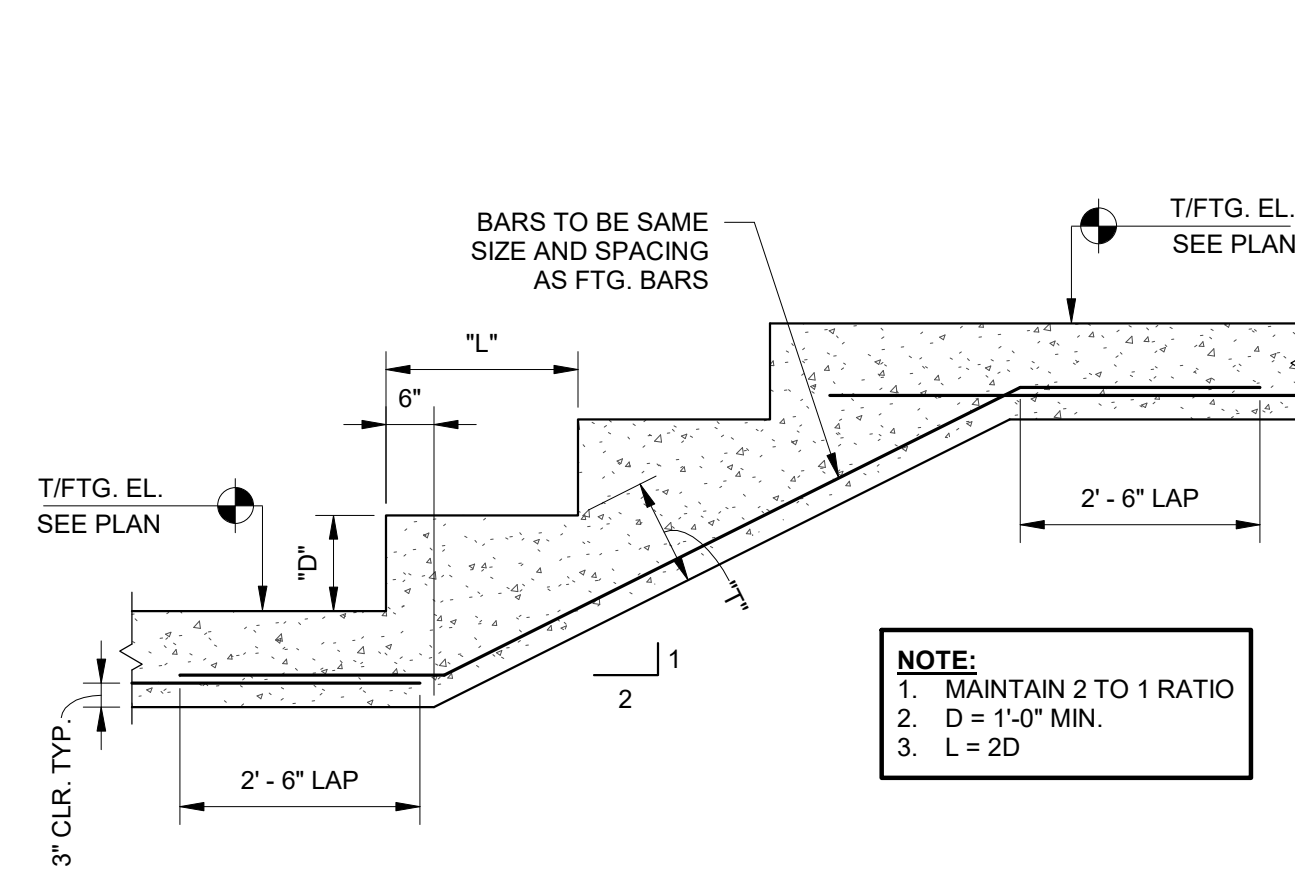
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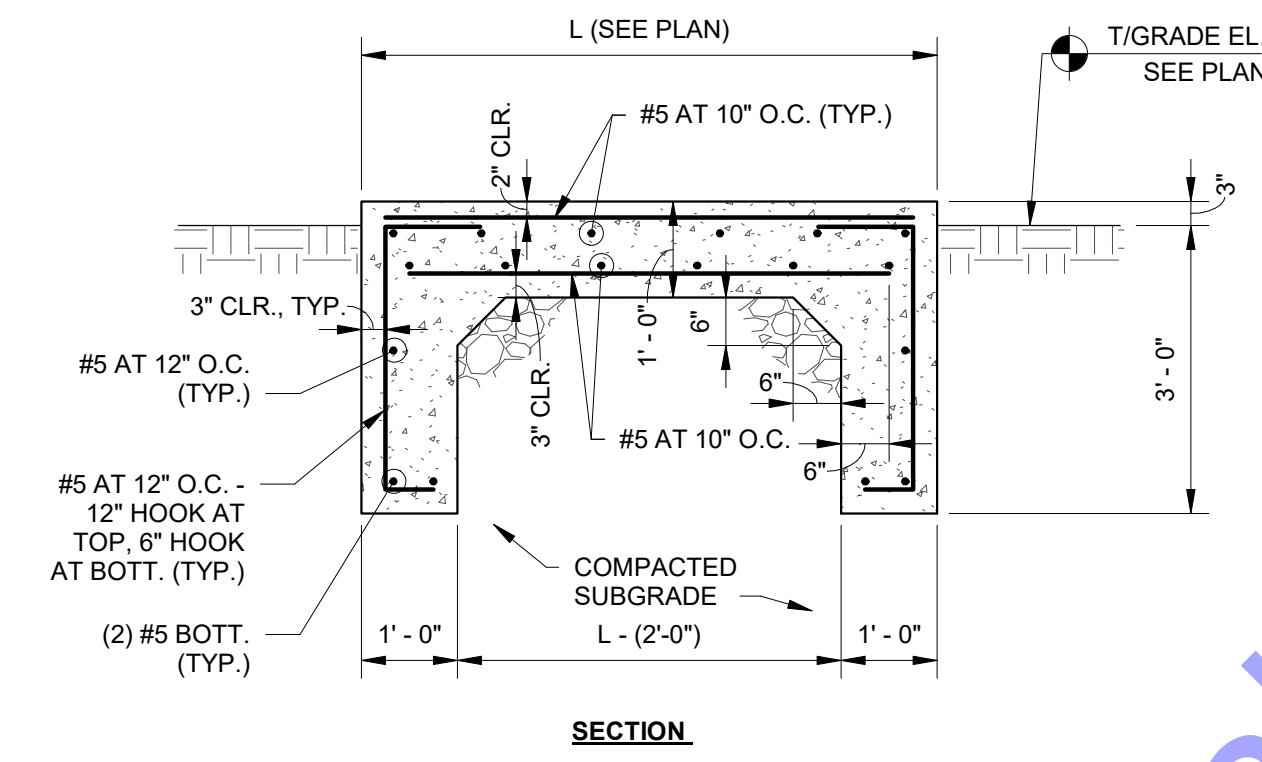
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MRM	RMS	AMS
Issue Date:	Project No:	Scale:
04/10/24	22-182	As indicated

TYPICAL STRUCTURAL DETAILS - CONCRETE - 01
Drawing No: **S0-3**
Sheet: 124 OF 177

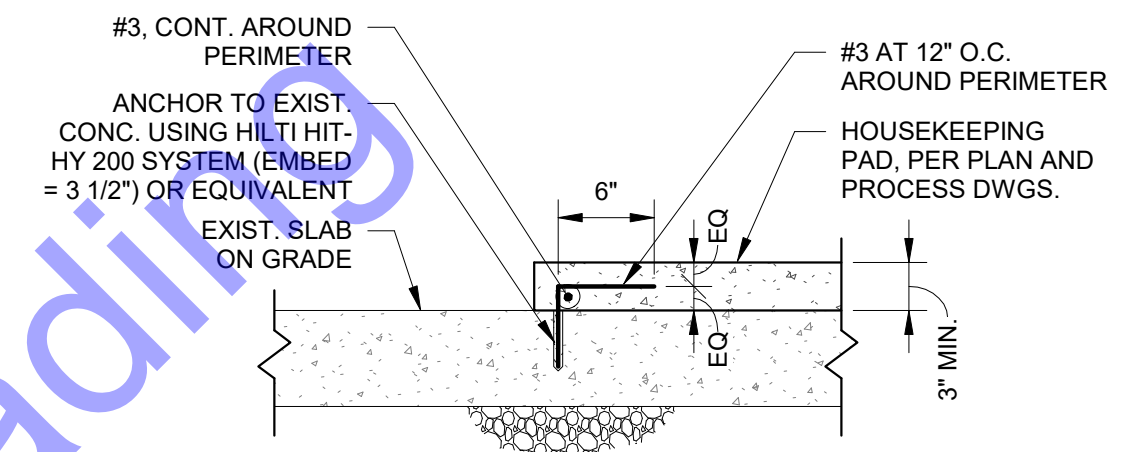
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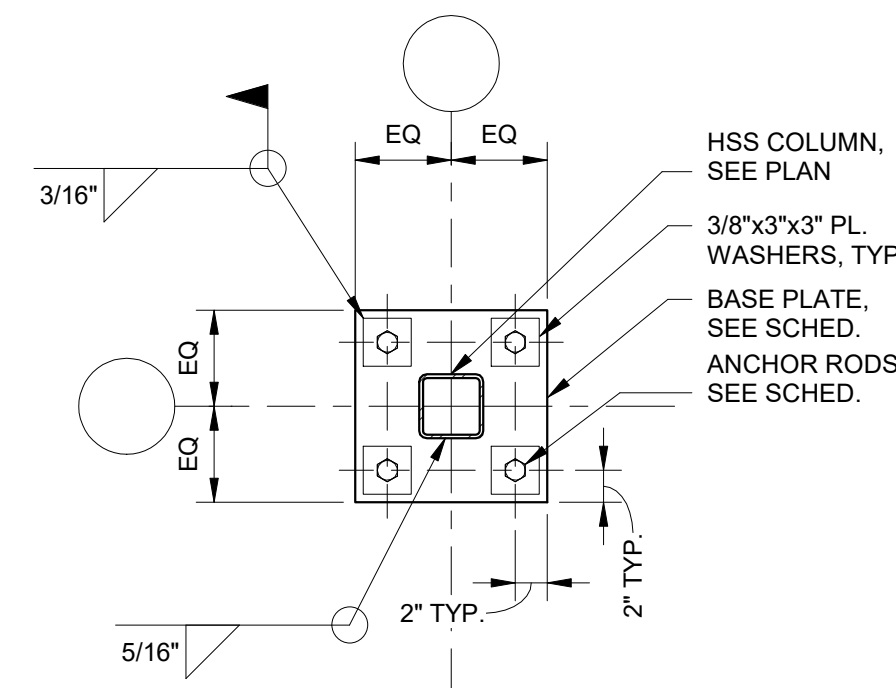
7 TYP. STEP FOOTING
S0-4 1/2" = 1'-0"



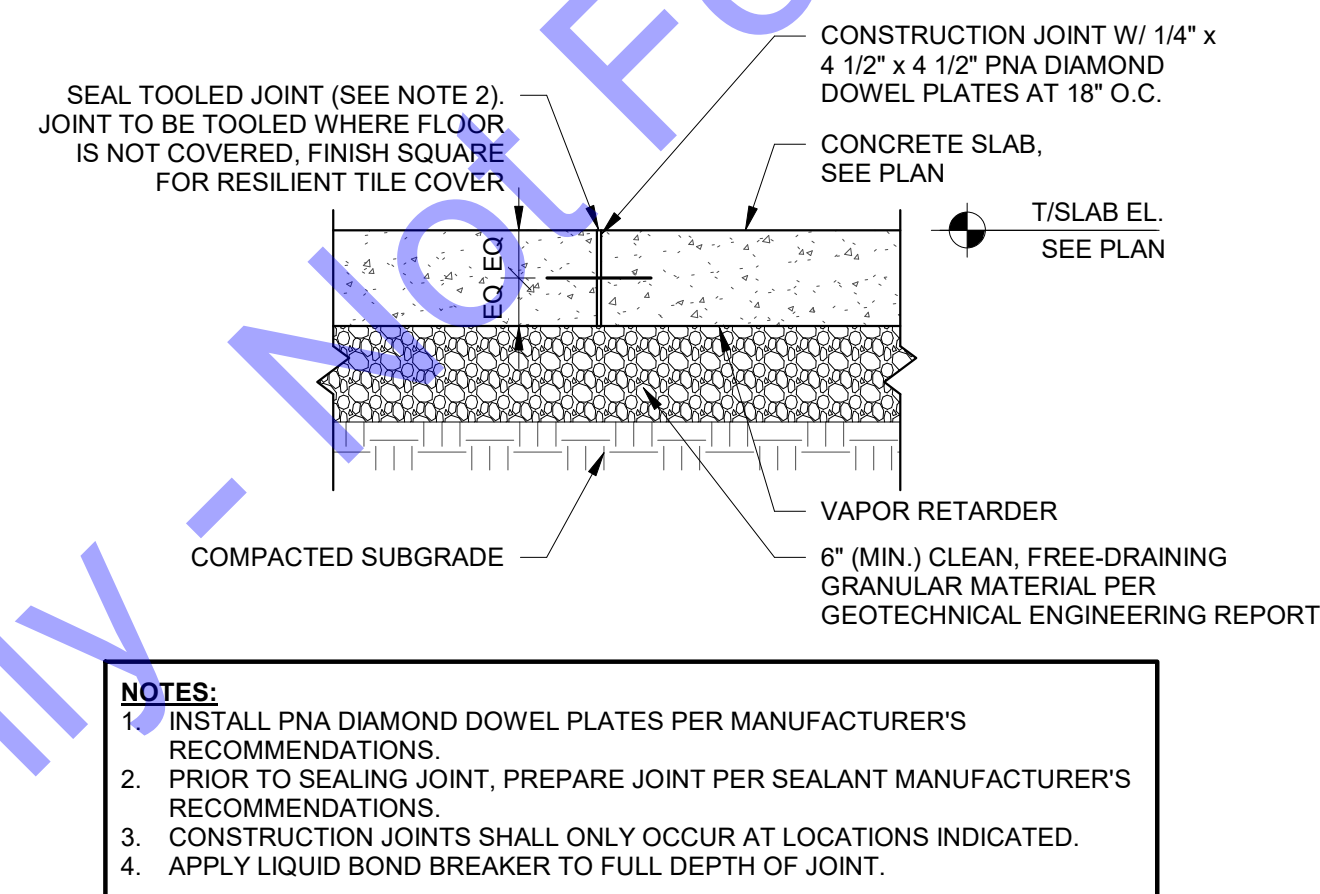
4 TYP. GENERATOR PAD
S0-4 1/2" = 1'-0"



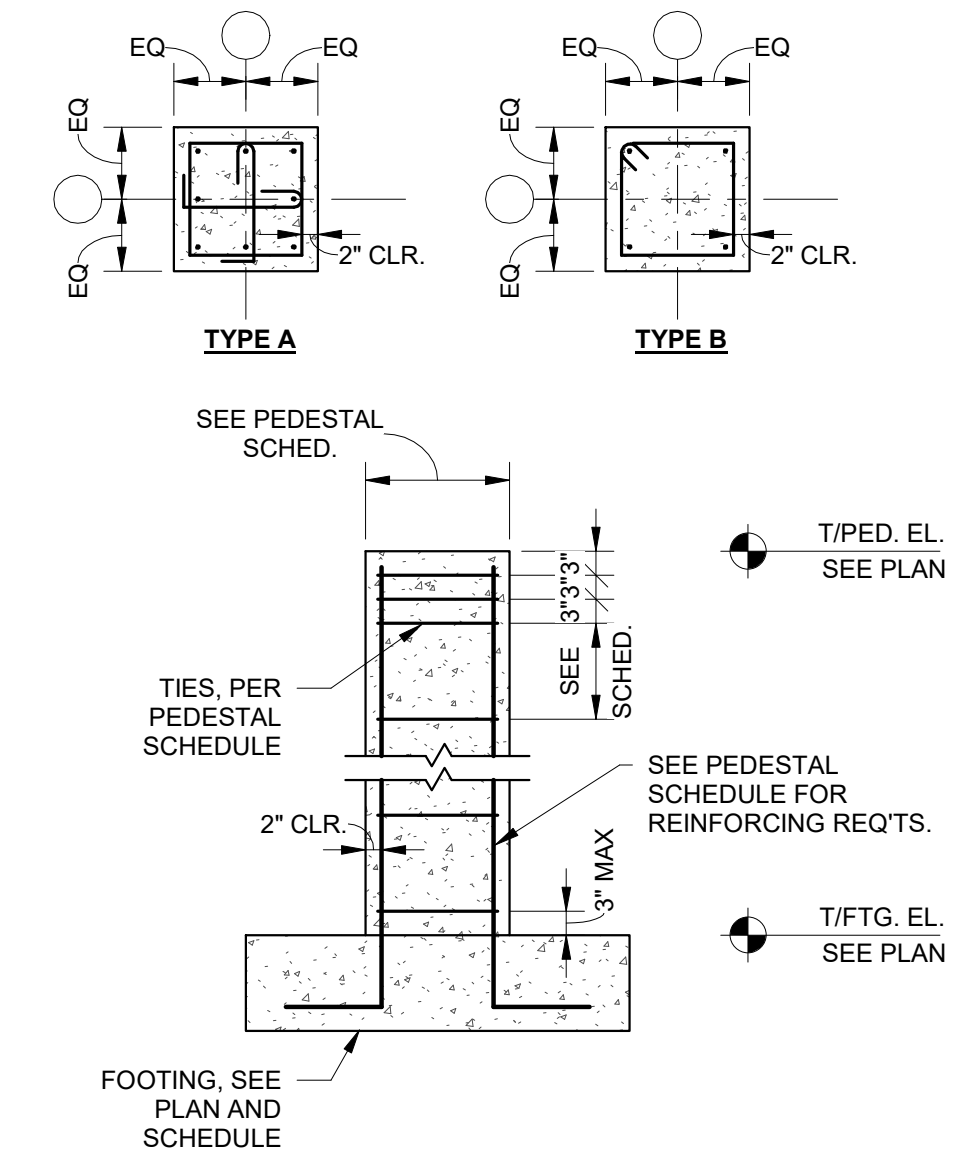
1 TYP. HOUSEKEEPING PAD
S0-4 1" = 1'-0"



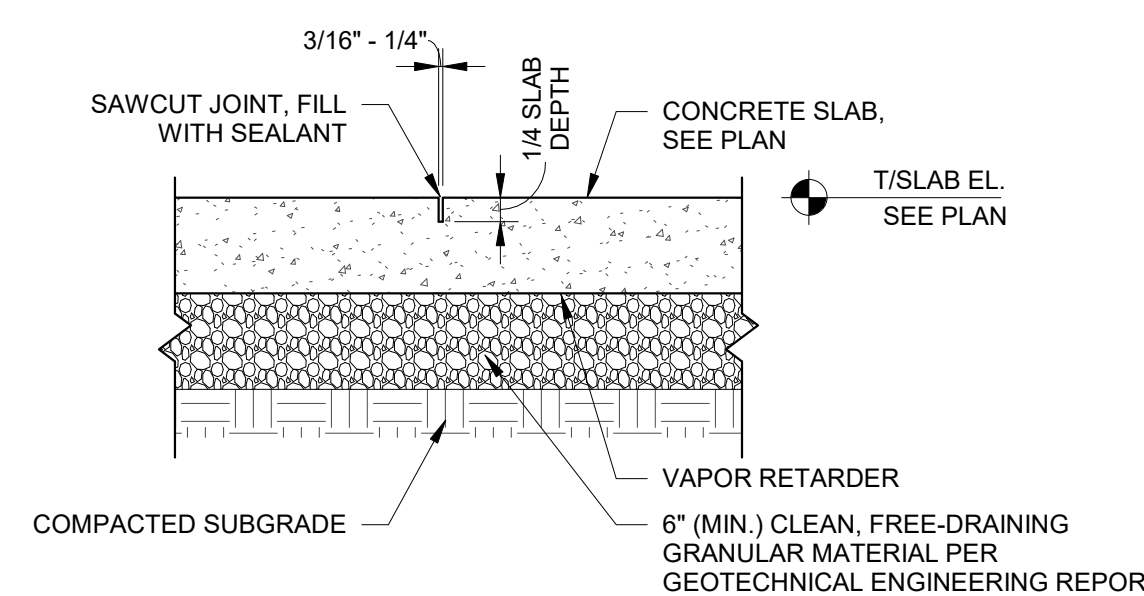
8 TYP. BASE PLATE DETAIL
S0-4 1" = 1'-0"



5 TYP. SLAB ON GRADE CONSTRUCTION JOINT
S0-4 1" = 1'-0"



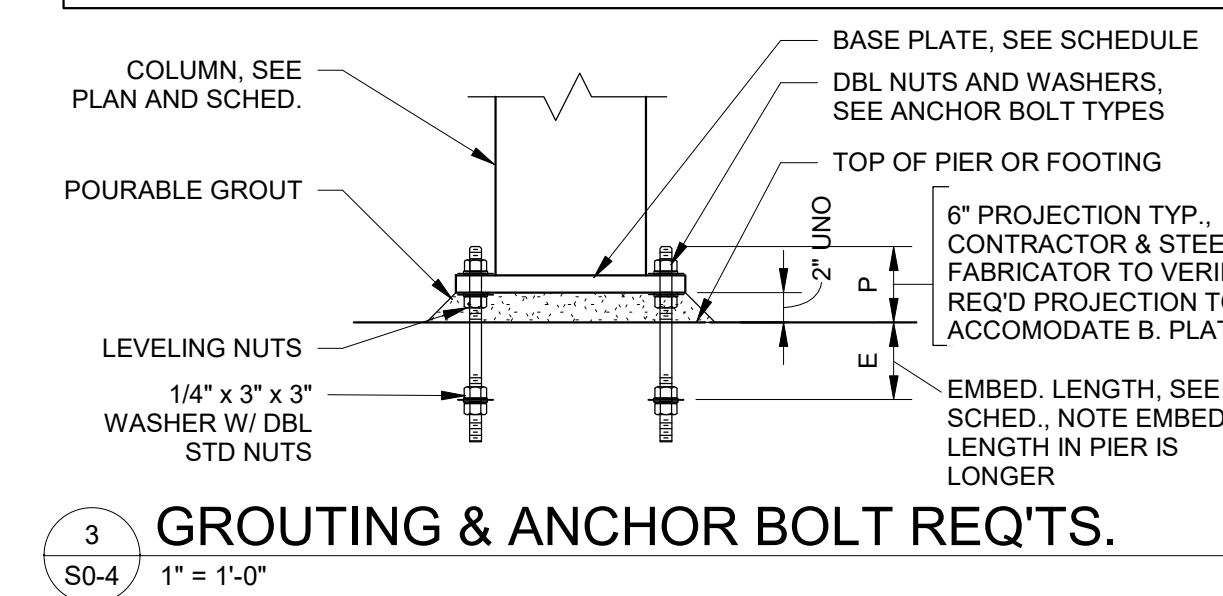
2 TYP. PEDESTAL DETAIL
S0-4 1/2" = 1'-0"



6 TYP. SLAB ON GRADE CONTRACTION JOINT
S0-4 1" = 1'-0"

ANCHOR BOLT SCHEDULE		
DIAMETER (D)	MIN. EMBEDMENT (E)	MIN. PIER EMBEDMENT (E)
1/2"	8"	22"
5/8"	8"	22"
3/4"	10"	22"
7/8"	12"	22"
1"	14"	24"
1 1/8"	16"	26"
1 1/4"	18"	28"
1 1/2"	20"	30"
1 3/4"	26"	36"

1 1/2" T/ CONC. (AS REQ'D)
 1/4" x 3" x 3" WASHER W/ DBL STD NUT
 ASTM A36 STEEL 30000 PSI CONC.



3 GROUTING & ANCHOR BOLT REQ'TS.
S0-4 1" = 1'-0"

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Signature: *Mark Murray* Date: 04/10/2024
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 REGISTERED PROFESSIONAL ENGINEER
 Mark Murray

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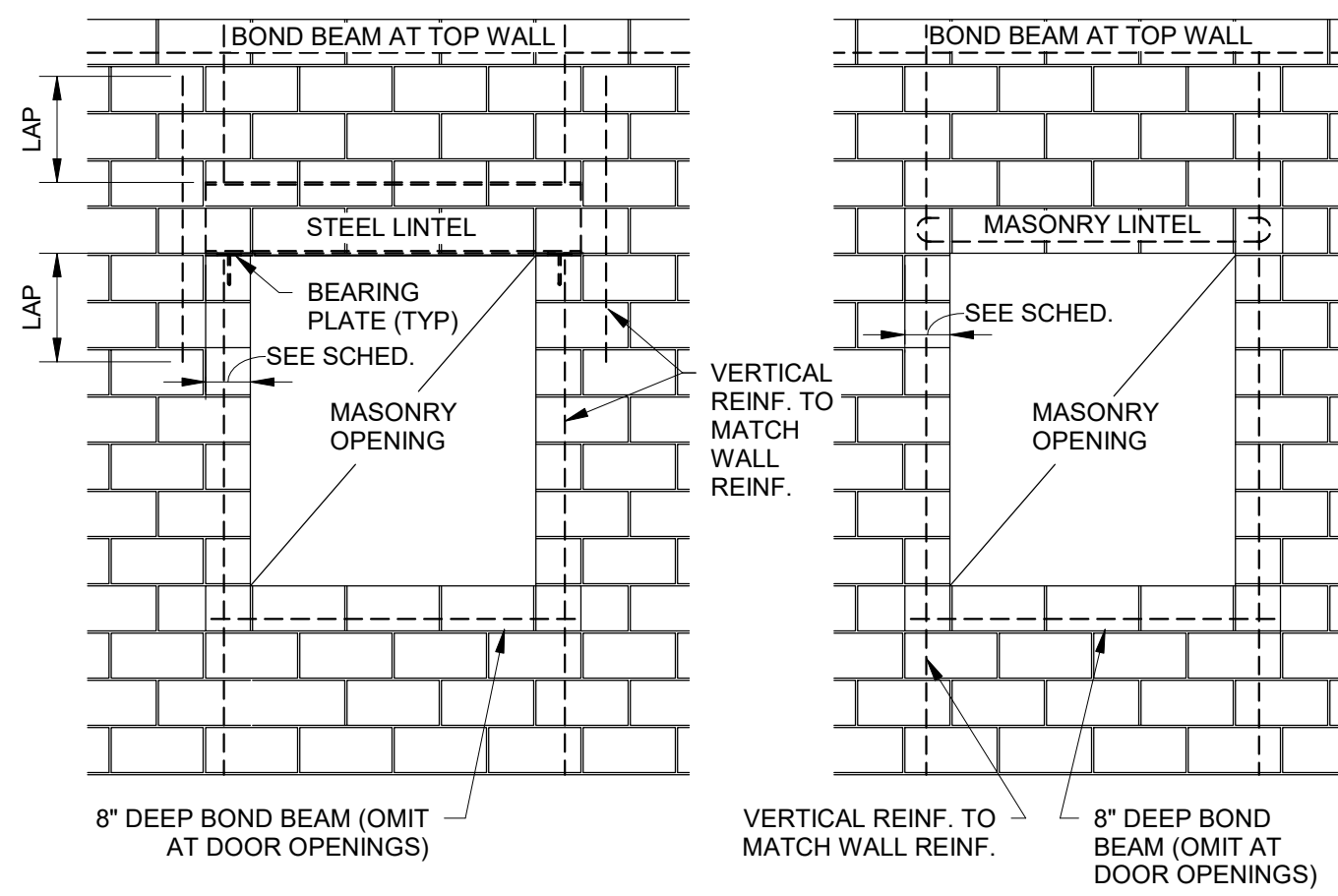
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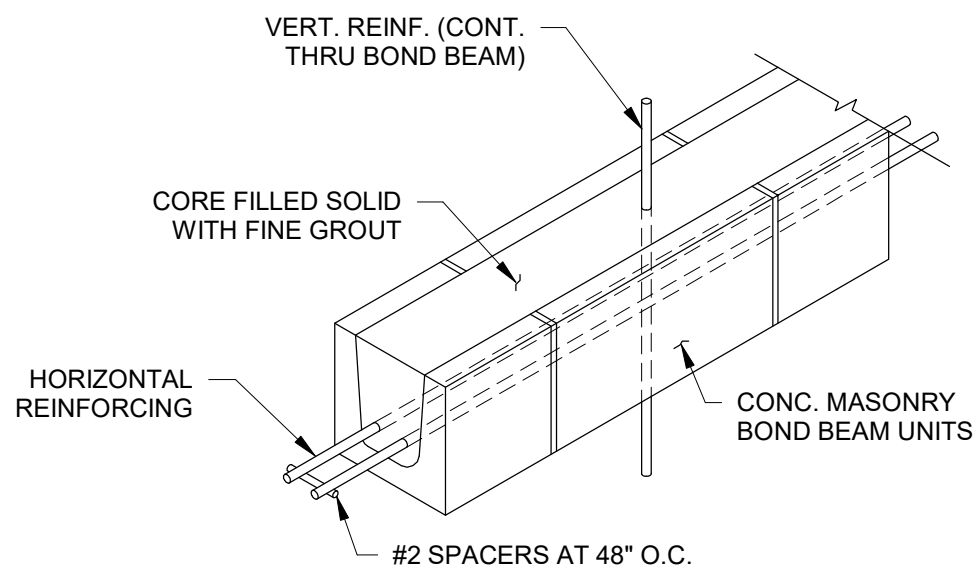
No.	Submital / Revision	Date	By

Designed By: MRM Drawn By: RMS Checked By: AMS
 Issue Date: 04/10/24 Project No: 22-182 Scale: As indicated

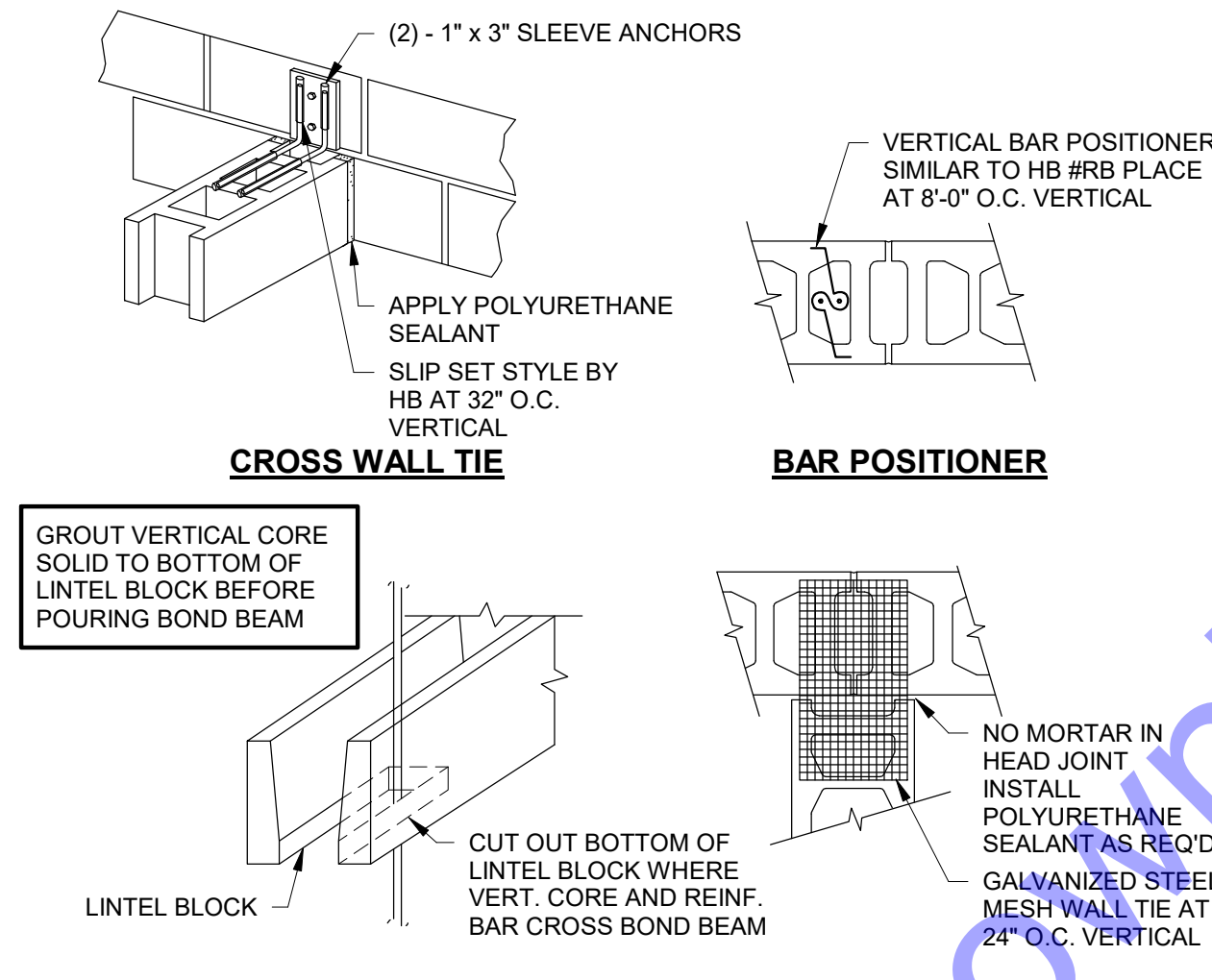
TYPICAL STRUCTURAL DETAILS - CONCRETE - 02
 Drawing No: **S0-4**
 Sheet: 125 OF 177



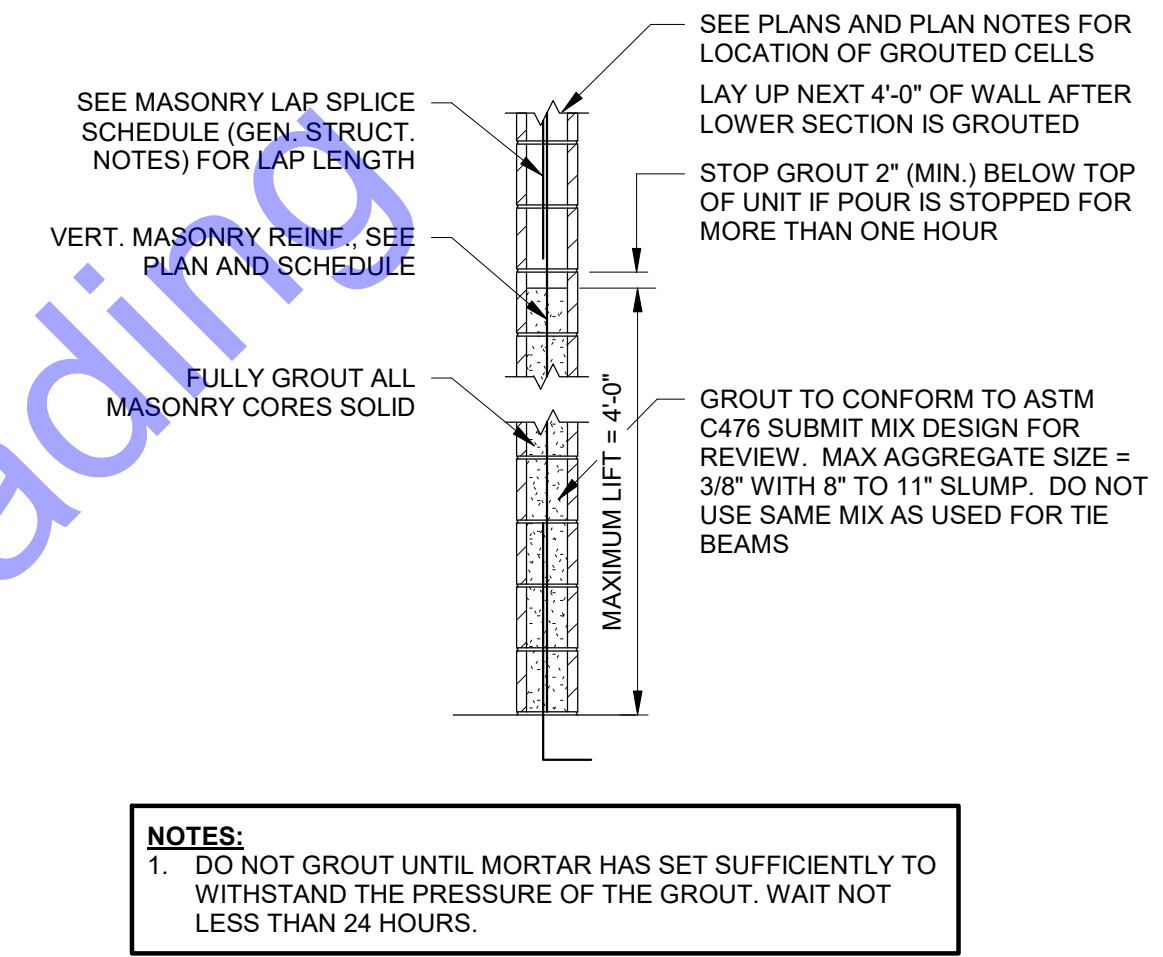
10 TYP. WALL OPNG. REINFORCING
S0-5 3/8" = 1'-0"



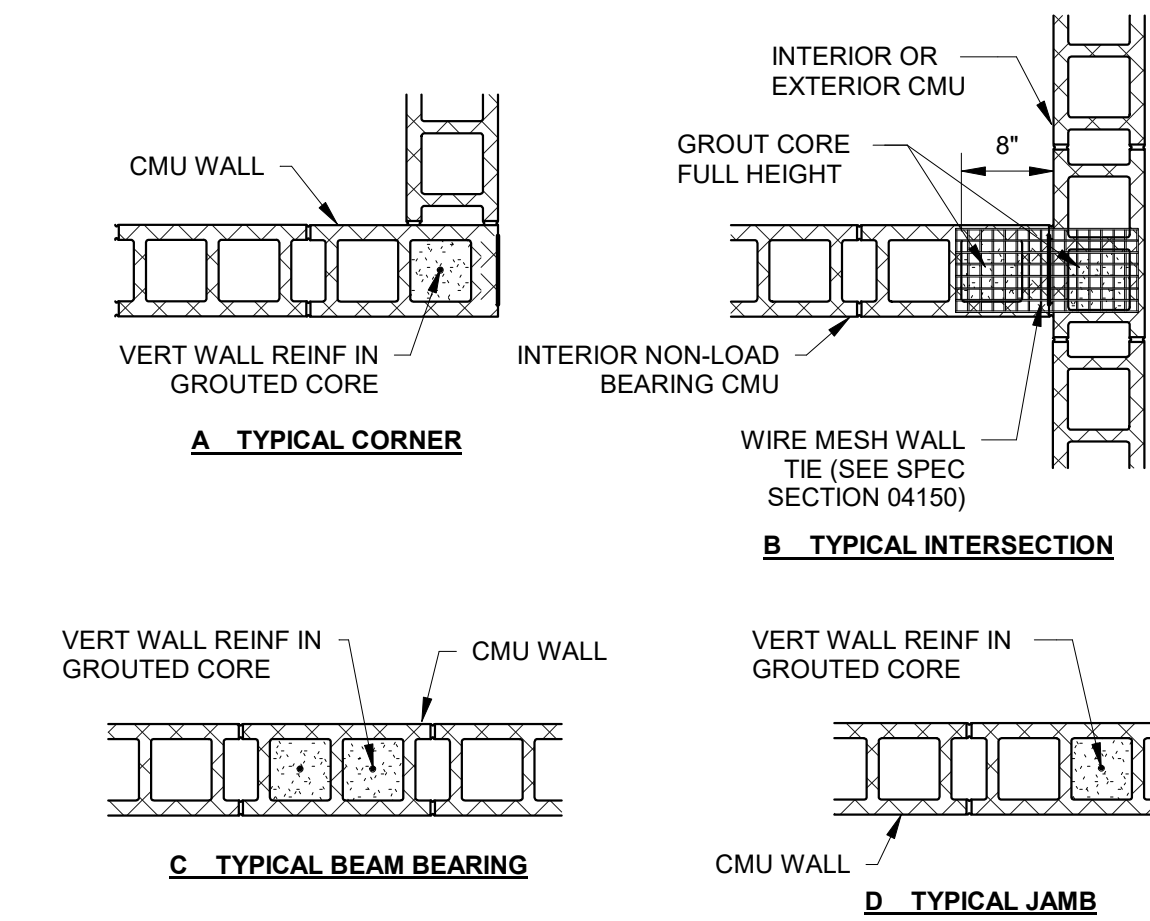
7 TYP. MASONRY BOND BEAM
S0-5 1 1/2" = 1'-0"



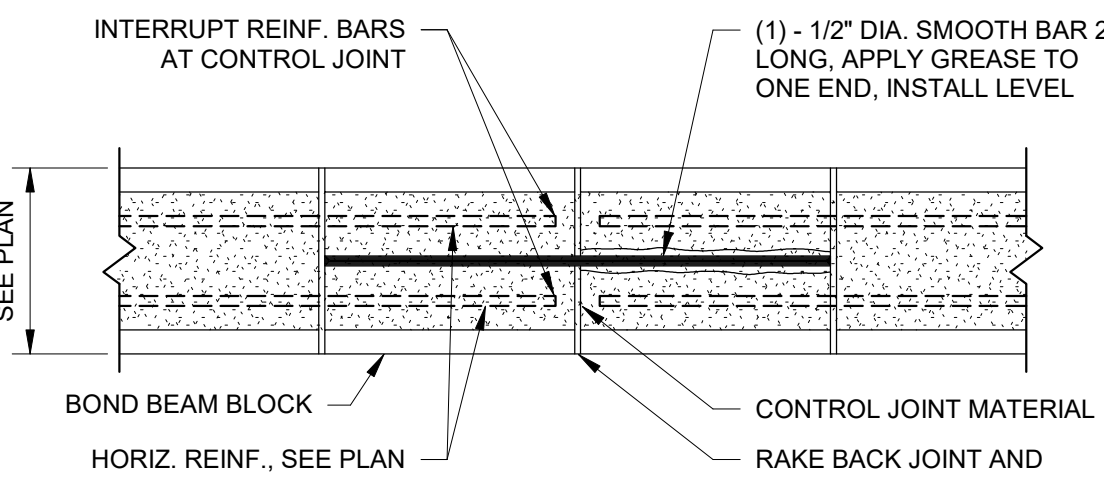
4 MASONRY DETAILS
S0-5 1" = 1'-0"



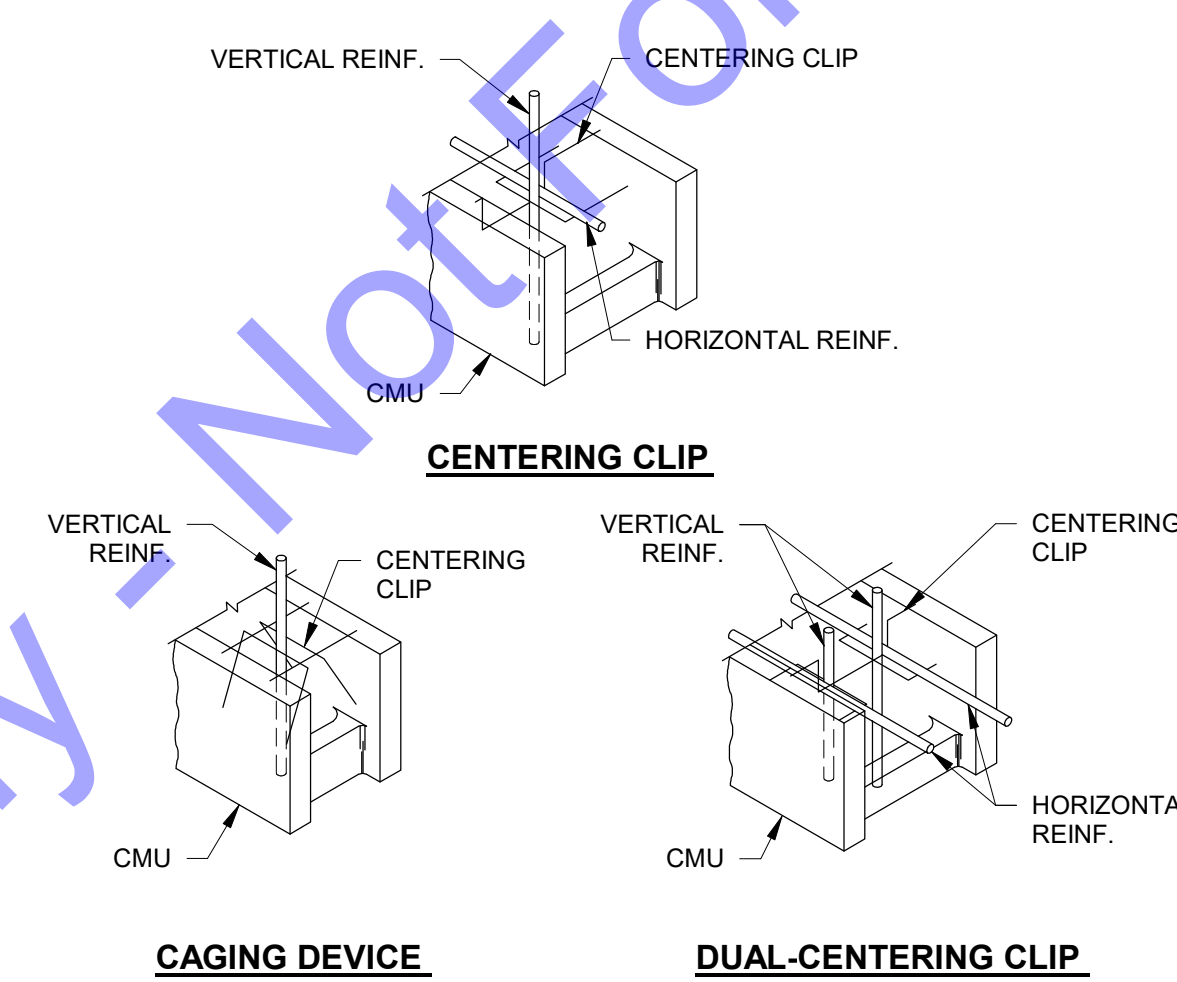
1 LOW LIFT GROUTING DETAIL
S0-5 1/2" = 1'-0"



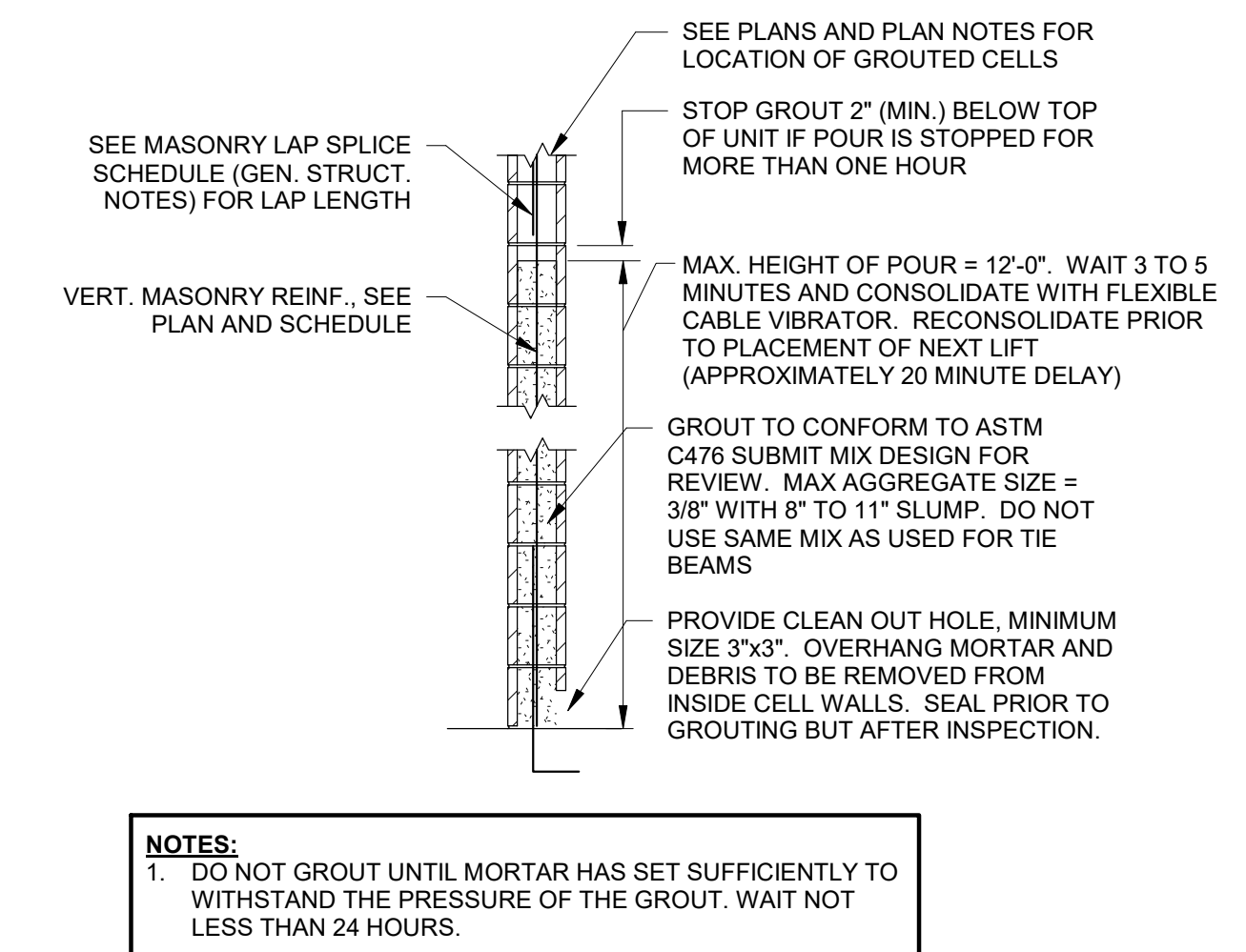
11 TYP. VERTICAL MASONRY WALL REINF.
S0-5 3/4" = 1'-0"



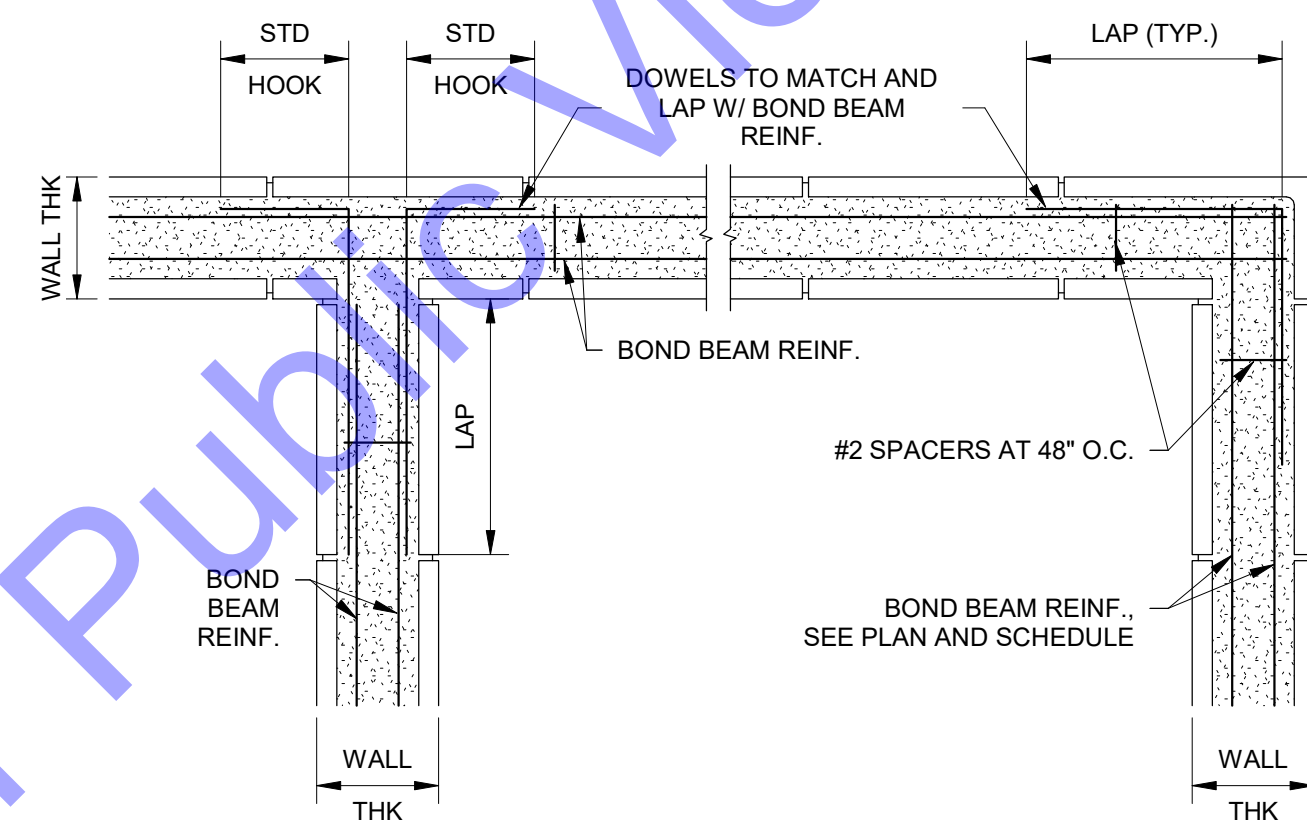
8 BOND BEAM DETAIL
S0-5 1" = 1'-0"



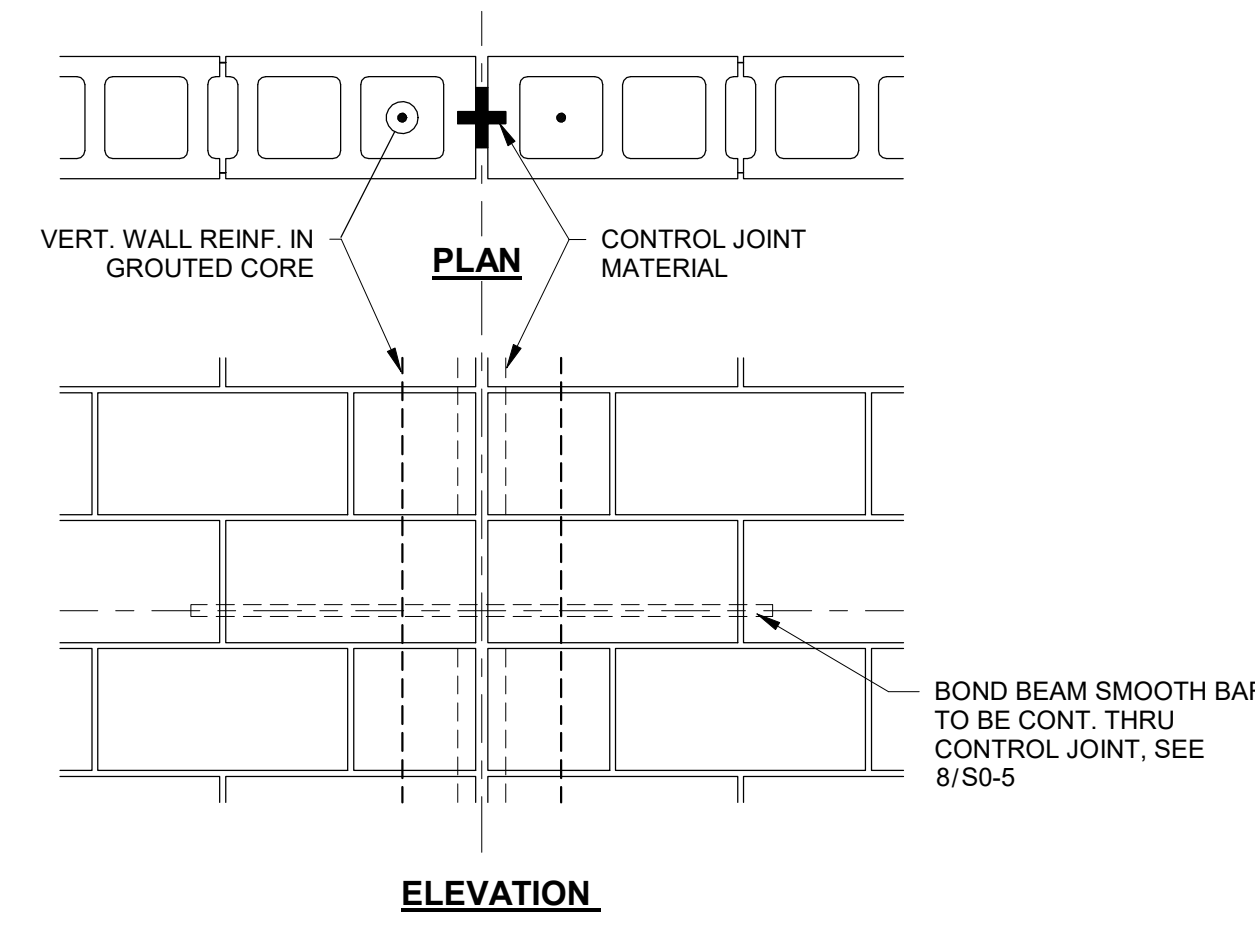
5 TYP. MASONRY REINFORCING CLIPS
S0-5 1" = 1'-0"



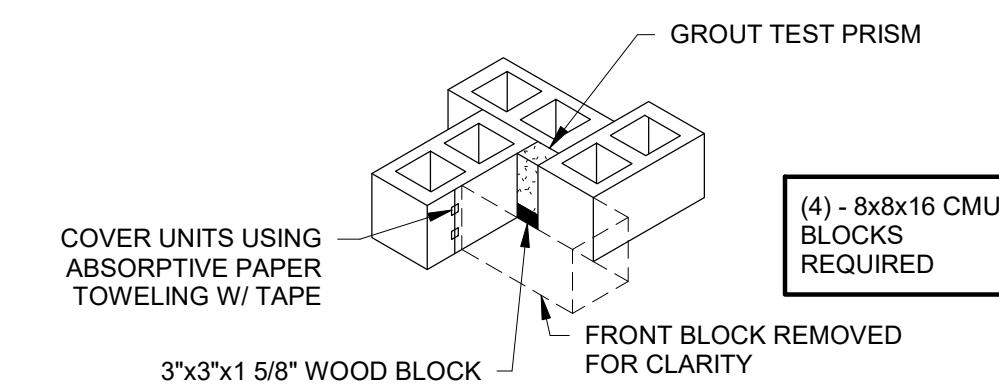
2 HIGH LIFT GROUTING DETAIL
S0-5 1/2" = 1'-0"



9 TYP. BOND BEAM REINFORCEMENT
S0-5 1" = 1'-0"



6 TYP. MASONRY CONTROL JOINT
S0-5 1" = 1'-0"



3 GROUT TEST MOLD (ASTM C-1019)
S0-5 1/2" = 1'-0"

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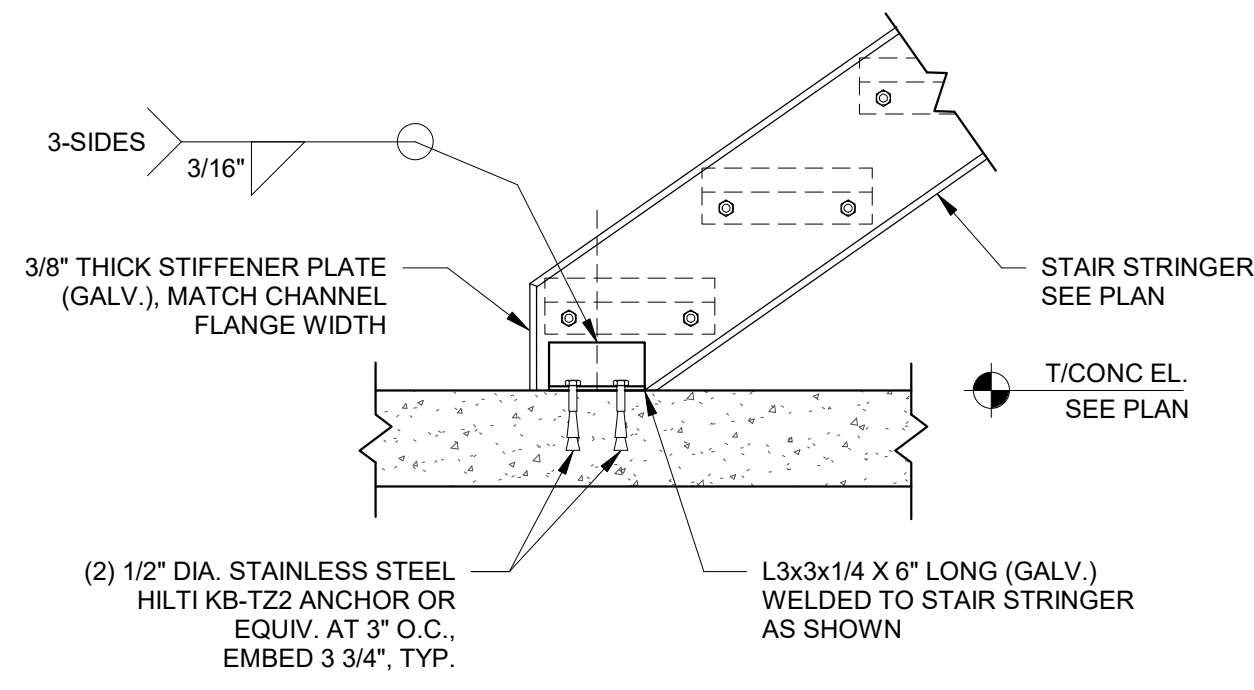
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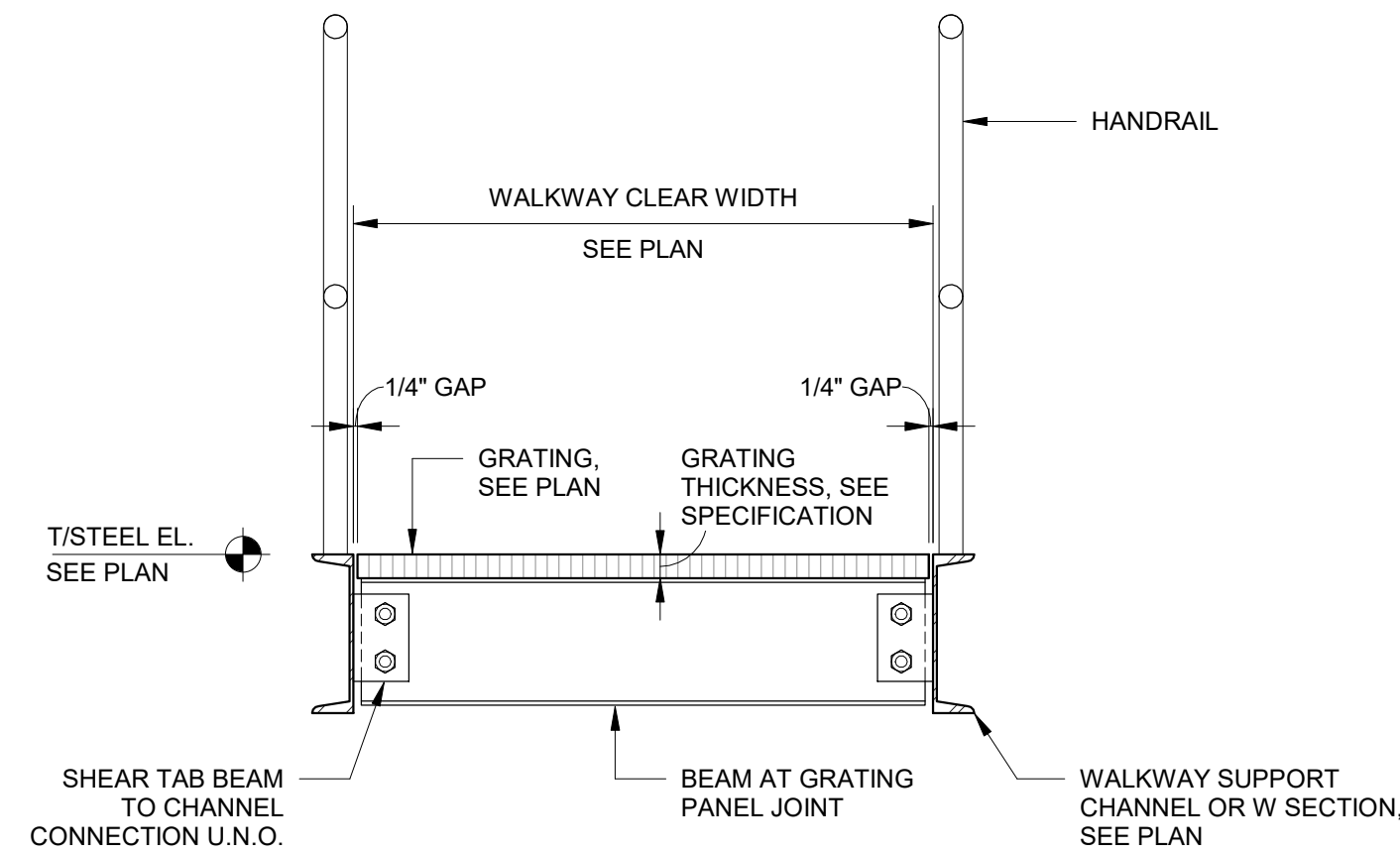
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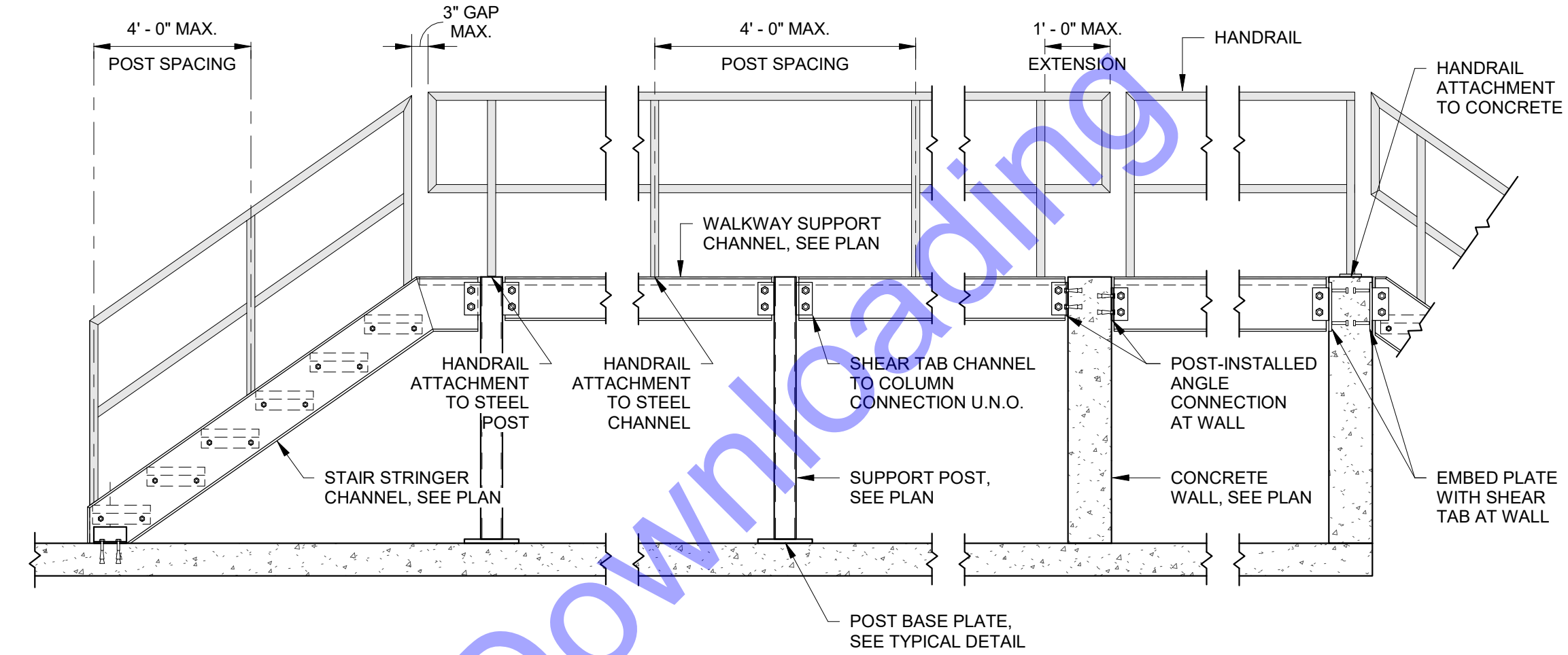
TYPICAL STRUCTURAL DETAILS - MASONRY
Drawing No:
S0-5
Sheet: 126 OF 177



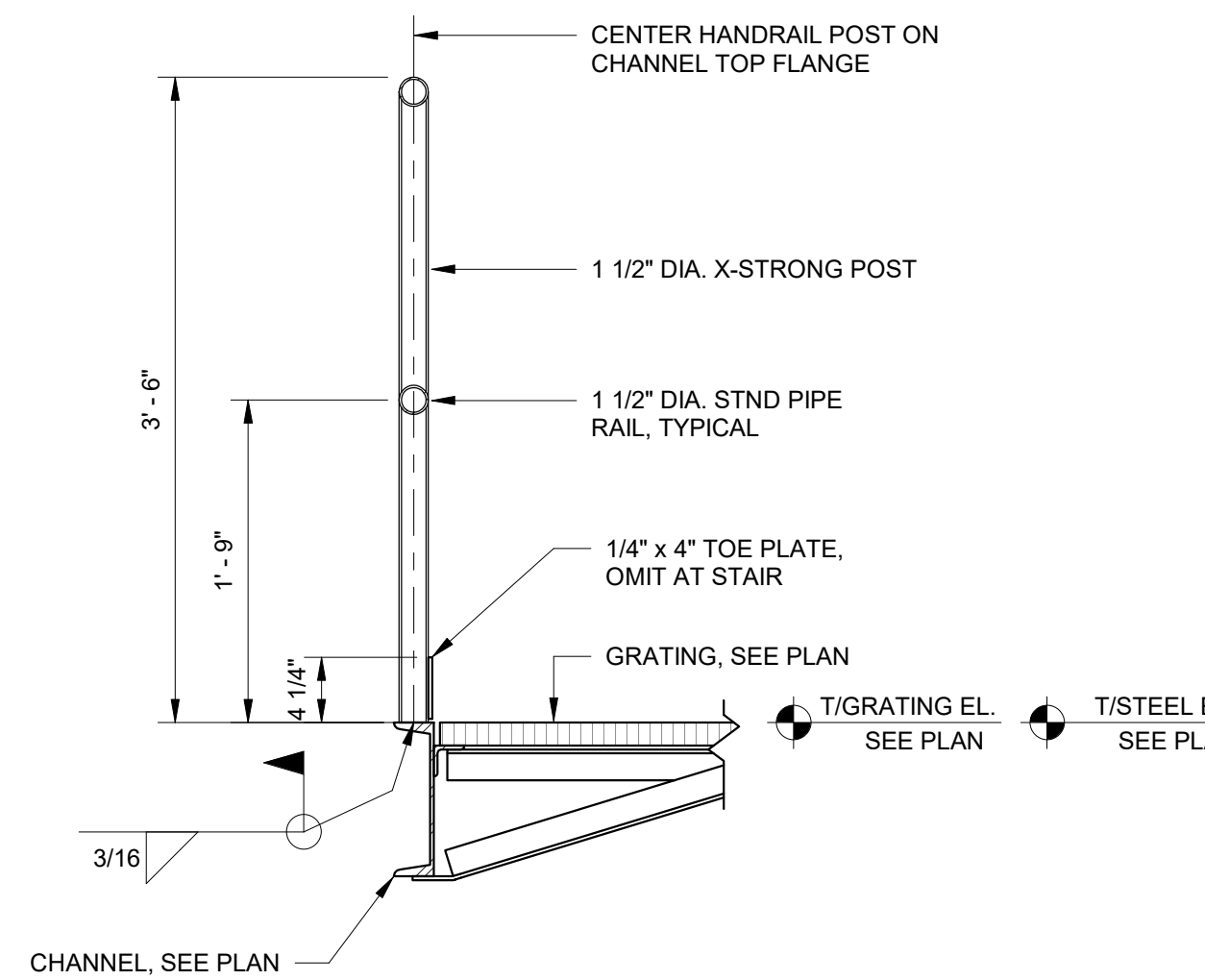
7 SECTION
S0-6 1" = 1'-0"



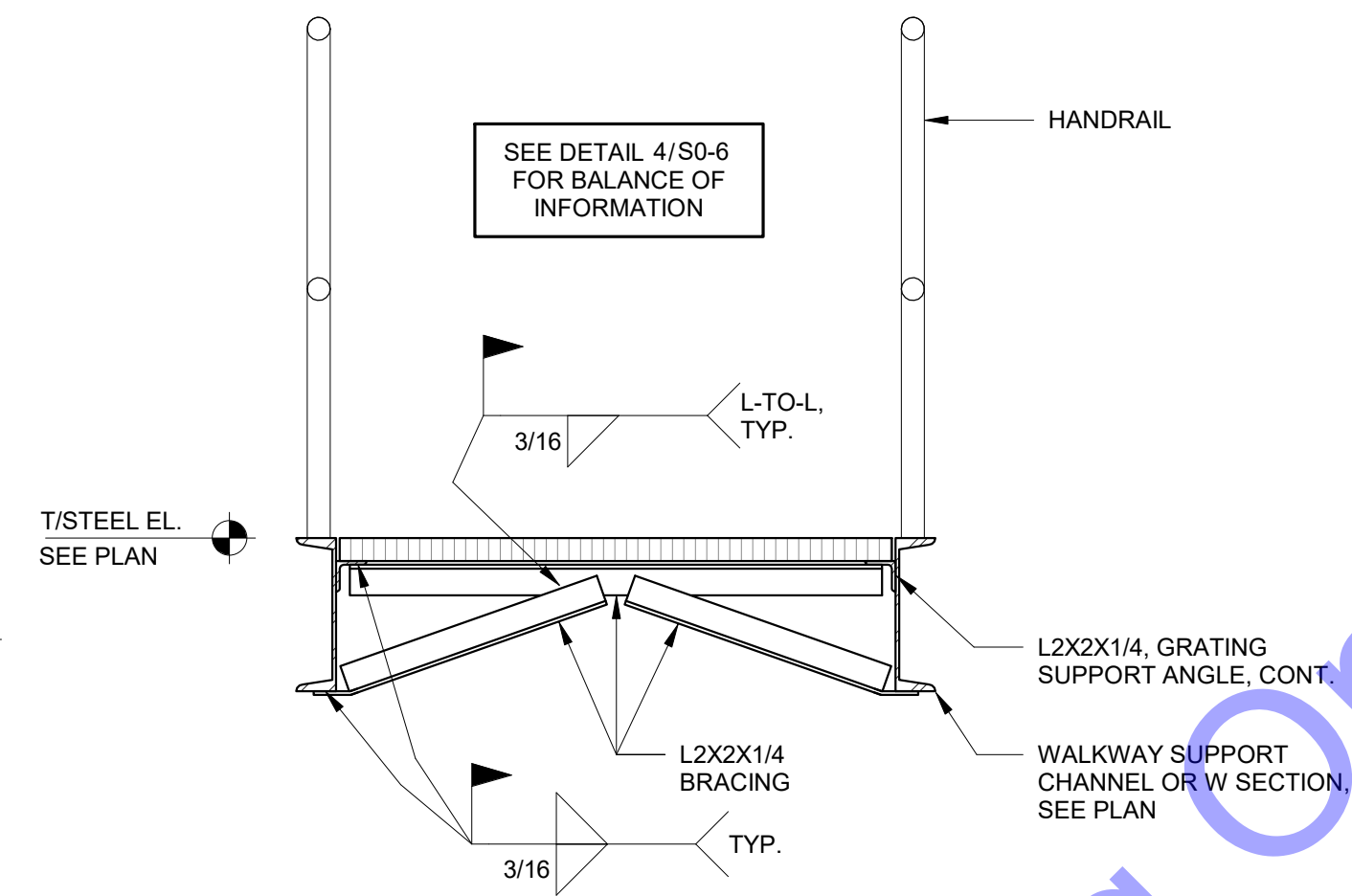
4 WALKWAY SECTION - TRANSVERSE BEAM
S0-6 1" = 1'-0"



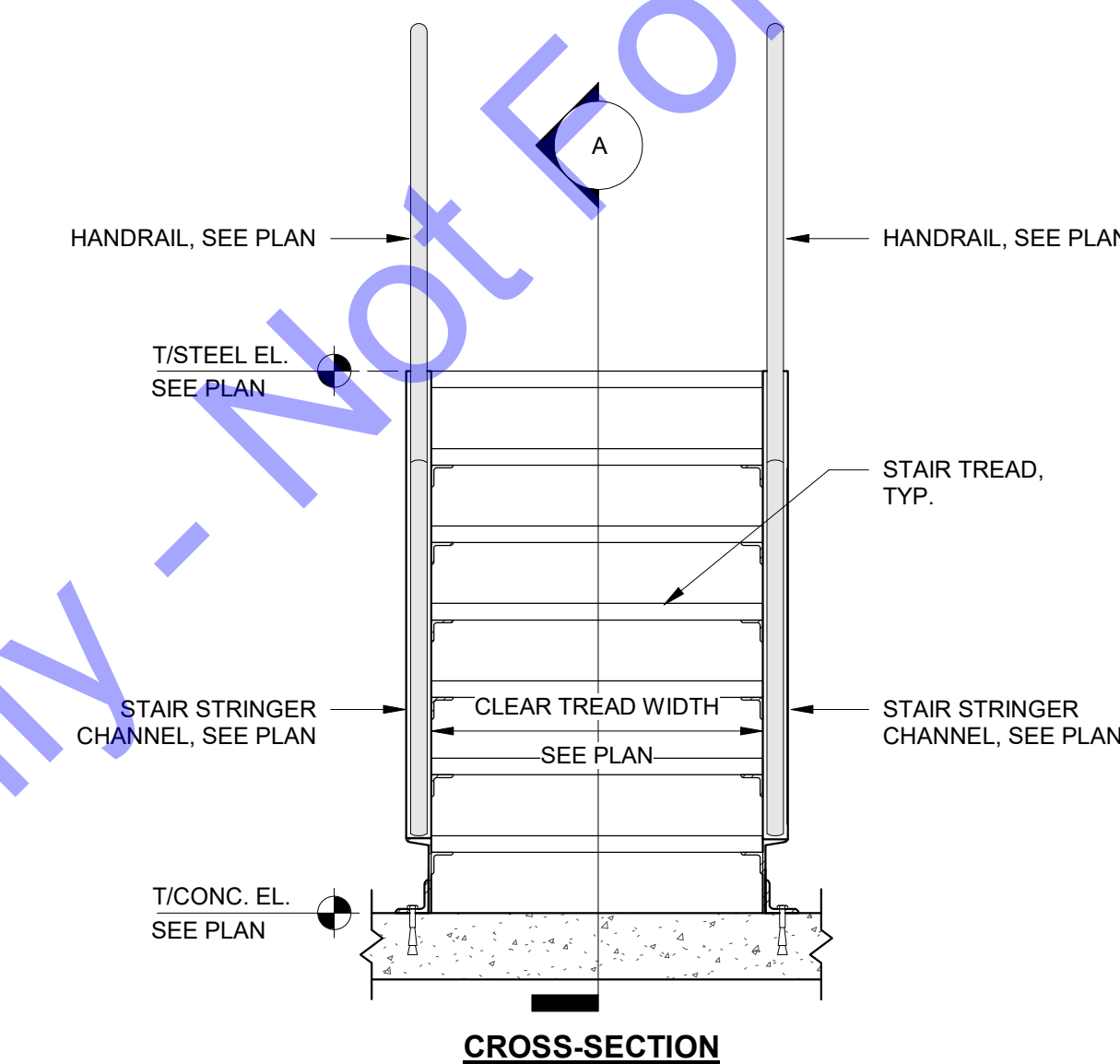
1 TYP. STAIR AND WALKWAY LAYOUT
S0-6 1/2" = 1'-0"



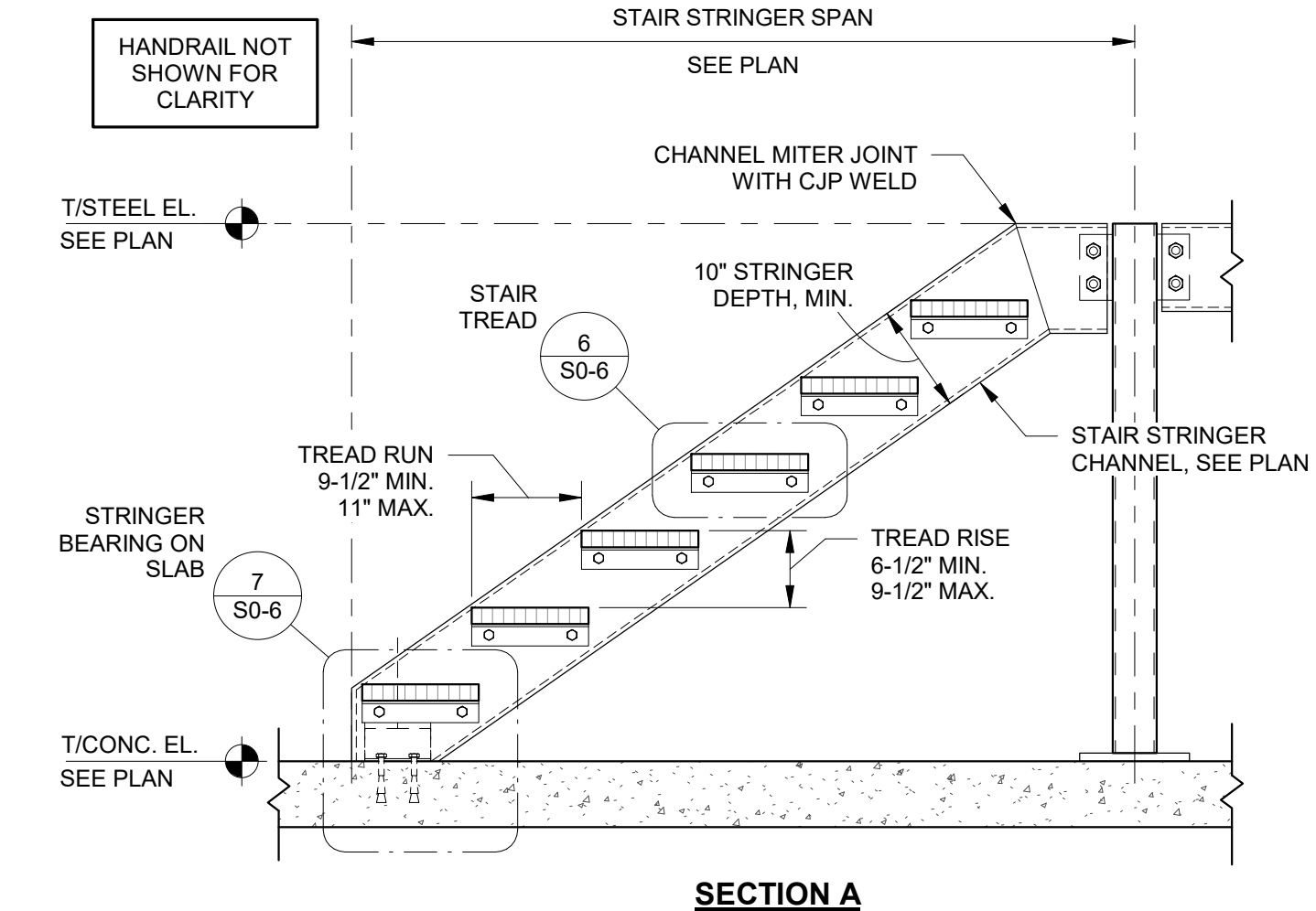
8 HANDRAIL SECTION - WALKWAY ATTACHMENT
S0-6 1" = 1'-0"



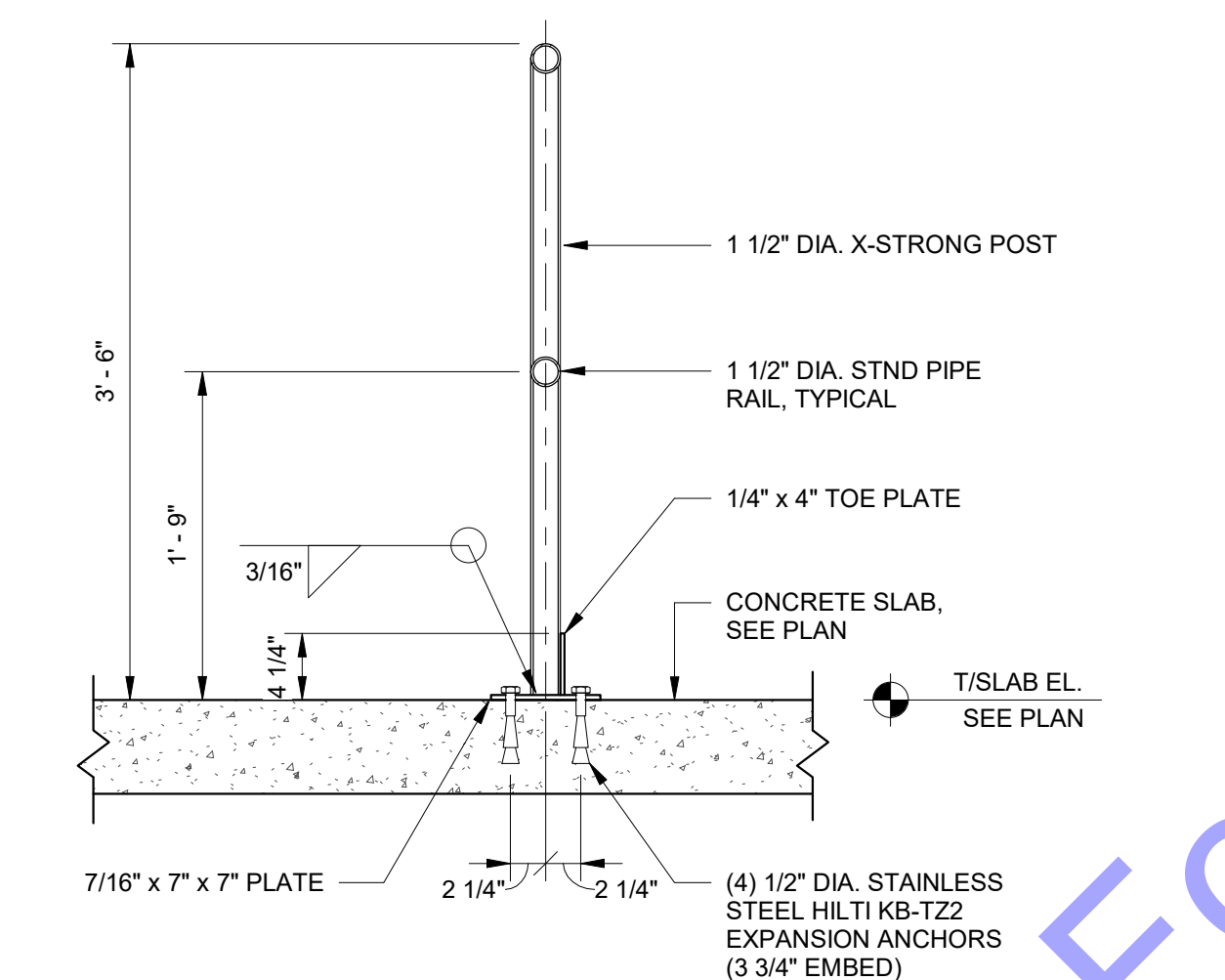
5 WALKWAY SECTION - BRACING AT HANDRAIL
S0-6 1" = 1'-0"



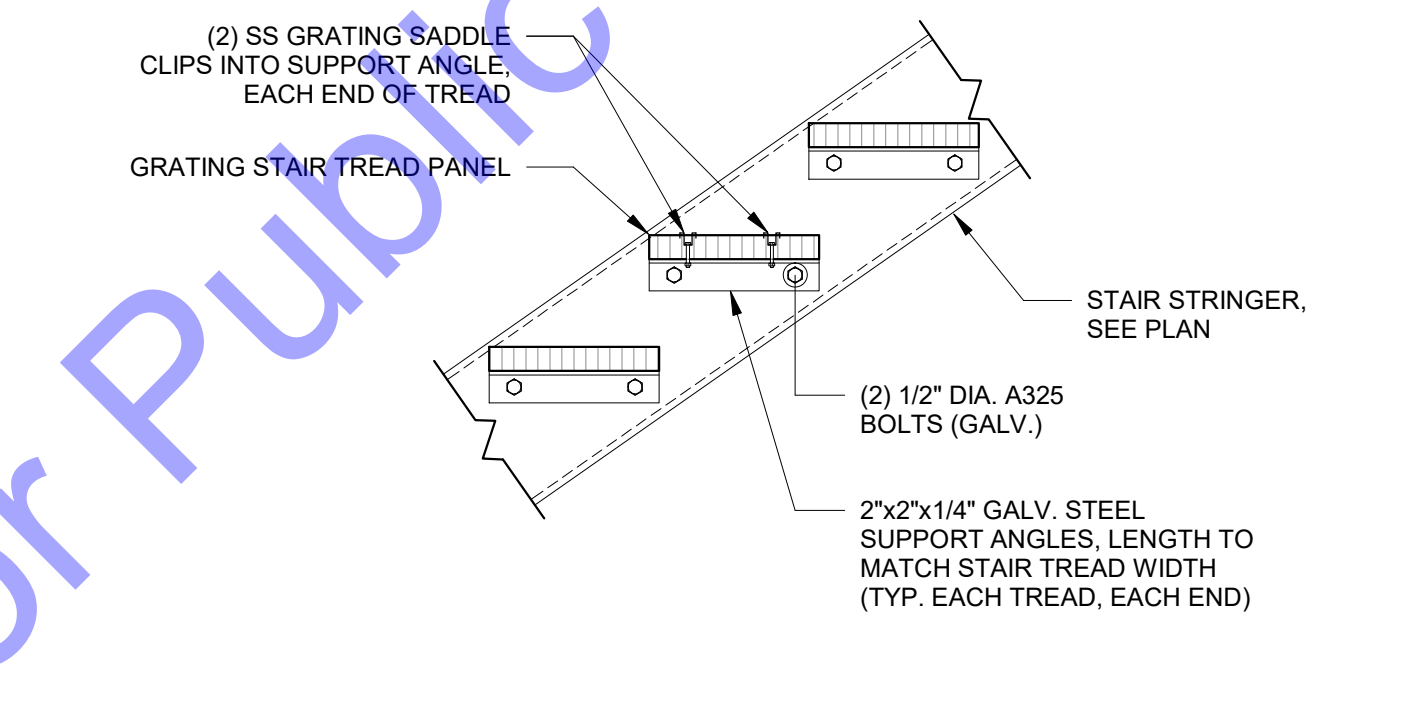
2 TYP. STAIR DETAIL
S0-6 3/4" = 1'-0"



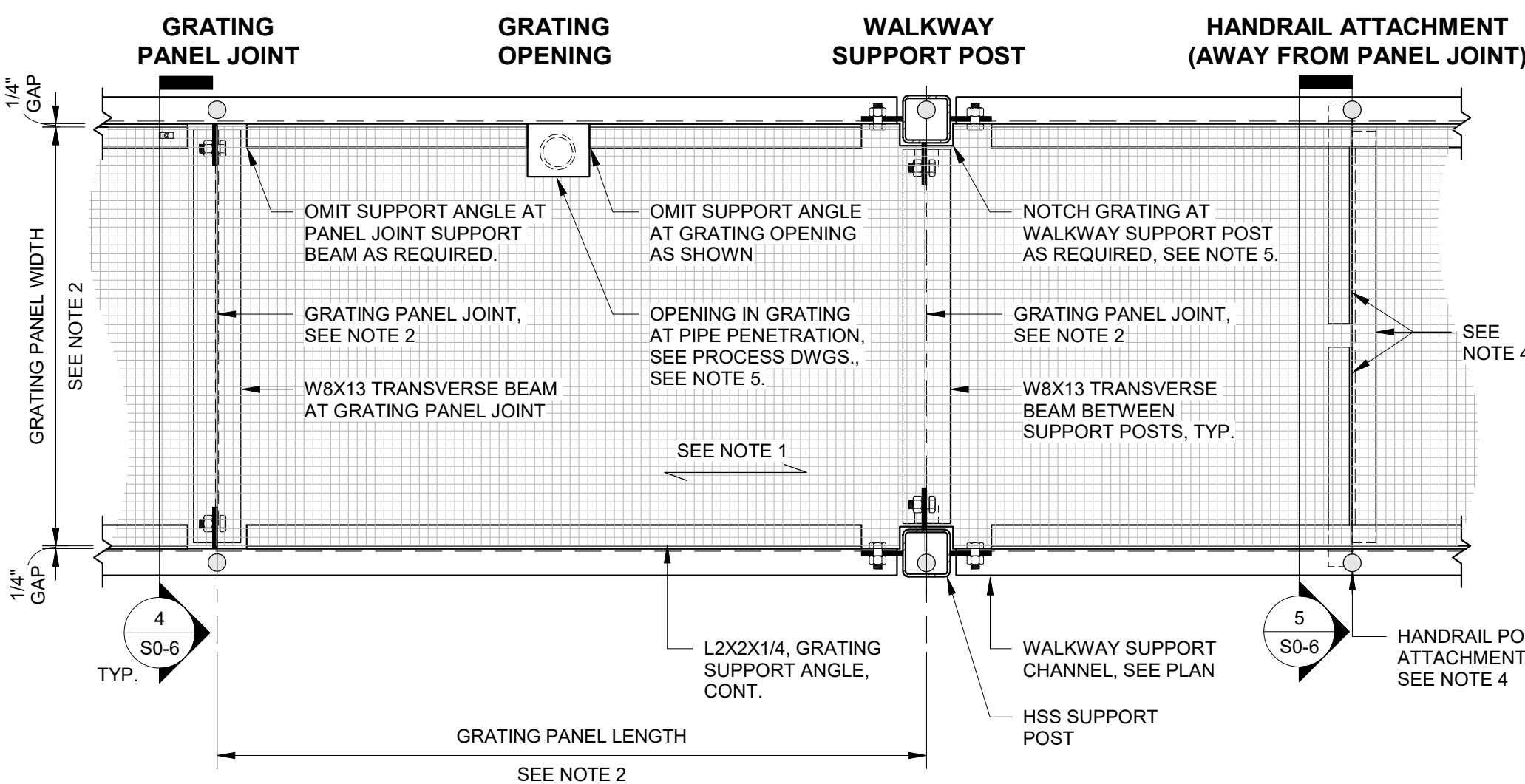
SECTION A



9 HANDRAIL SECTION - CONCRETE ATTACHMENT
S0-6 1" = 1'-0"



6 SECTION
S0-6 1" = 1'-0"



3 TYPICAL WALKWAY ENLARGED PLAN
S0-6 1" = 1'-0"

- GRATING WALKWAY NOTES:**
- FOR ALUMINUM GRATINGS, GRATING PANELS SHALL BE ORIENTED TO SPAN PARALLEL TO WALKWAY.
 - TYP. GRATING PANEL LENGTH = 5'-0", U.N.O. TYP. GRATING PANEL WIDTH = 3'-0", U.N.O. PROVIDE TRANSVERSE BEAM AT PANEL JOINT LOCATIONS AS SHOWN. GRATING PANEL JOINT LAYOUT SHALL BE DEVELOPED BY GRATING PROVIDER.
 - STAINLESS STEEL GRATING FASTENER CLIPS BY GRATING PROVIDER. PROVIDE MIN. OF (4) CLIPS PER GRATING PANEL.
 - HANDRAIL POST LAYOUT SHALL BE DEVELOPED BY STEEL FABRICATOR. ALIGN HANDRAIL ATTACHMENT LOCATIONS WITH TRANSVERSE BEAMS WHEN POSSIBLE. WHEN HANDRAIL POST ATTACHMENTS ARE NOT ALIGNED WITH TRANSVERSE BEAMS, PROVIDE L2 ANGLE BRACING AS SHOWN.
 - FOR ALUMINUM GRATINGS, PROVIDE EDGE BANDING AT ALL GRATING PERIMETERS AND OPENINGS.

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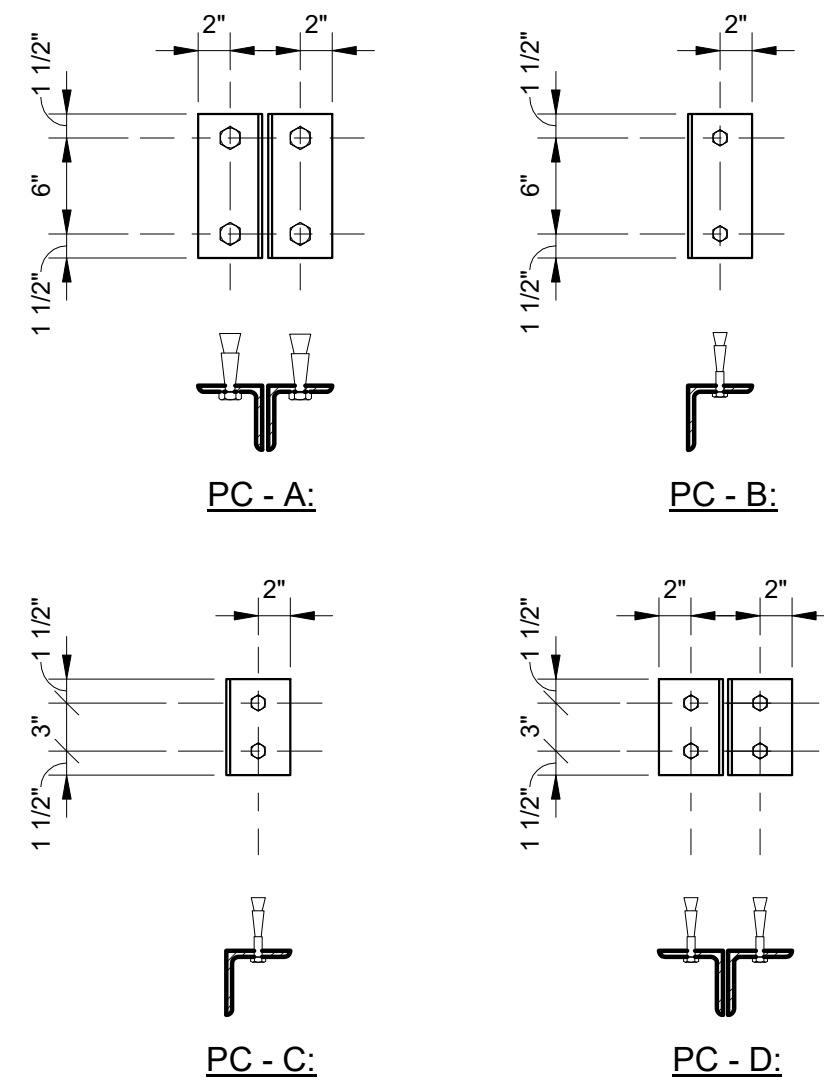
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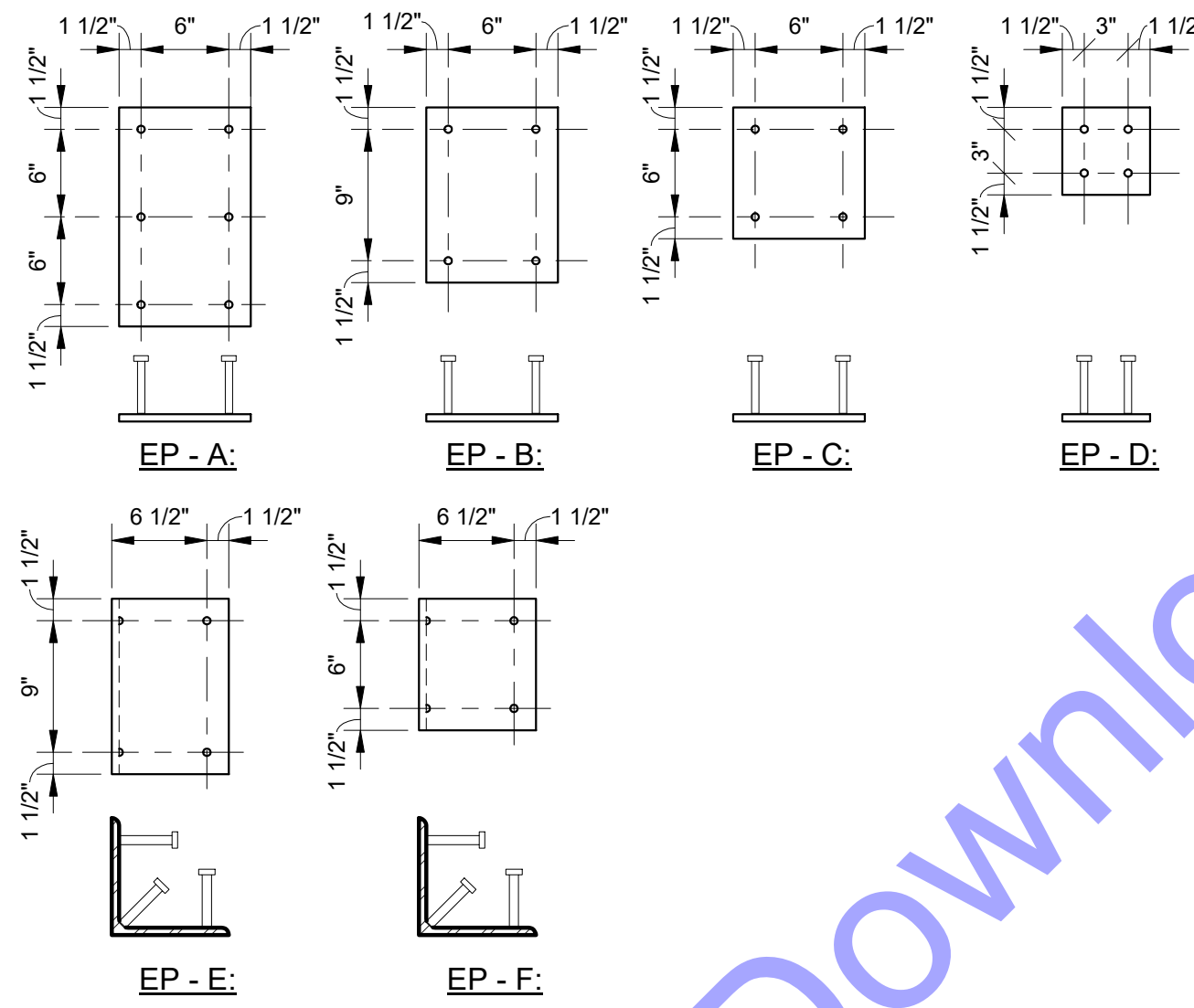
TYPICAL STRUCTURAL DETAILS - STAIRS - 01
Drawing No: **S0-6**
Sheet: 127 OF 177



POST-INSTALLED CONNECTION SCHEDULE		
MARK	ANGLE SIZE	POST-INSTALLED ANCHORS
PC-A	(2) L4X4X3/8 X 0'-9"	(4) 1/2" DIA. (SS) HILTI HAS RODS WITH HILTI-HY 270 ADHESIVE SYSTEM (2" EMBED)
PC-B	(1) L4X4X3/8 X 0'-9"	(2) 1/2" DIA. (SS) HILTI HAS RODS WITH HILTI-HY 270 ADHESIVE SYSTEM (2" EMBED)
PC-C	(1) L4X4X3/8 X 0'-6"	(2) 1/2" DIA. (SS) HILTI HAS ROD WITH HILTI HIT-HY 200 ADHESIVE SYSTEM (4-1/2" EMBED)
PC-D	(2) L4X4X3/8 X 0'-6"	(4) 1/2" DIA. (SS) HILTI HAS ROD WITH HILTI HIT-HY 200 ADHESIVE SYSTEM (4-1/2" EMBED)

NOTES:

- CMU WALLS SHOULD BE FULLY GROUTED AT AND BELOW POST-INSTALLED ANCHOR LOCATIONS.
- COORDINATE PLACEMENT WITH REINFORCING AND OTHER ITEMS EMBEDDED IN CONCRETE.
- WHERE ADHESIVE ANCHORS ARE INSTALLED IN HOLLOW CMU BLOCKS, PROVIDE SUPPLEMENTAL SLEEVE PER MANUFACTURERS RECOMMENDATIONS.



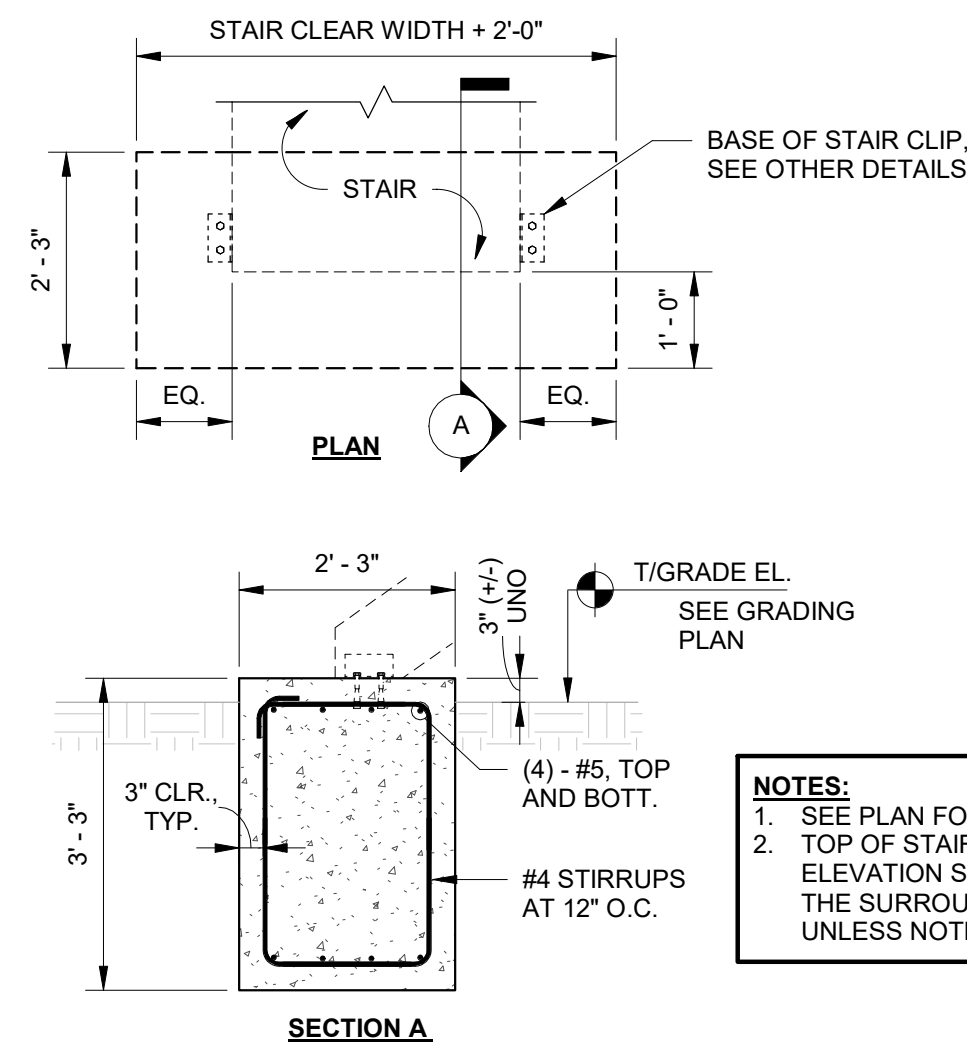
STEEL EMBED SCHEDULE		
MARK	PLATE SIZE	HAS STUDS
EP-A	1/2" X 15" X 0'-9"	(6) 1/2" DIA. X 5"
EP-B	1/2" X 12" X 0'-9"	(4) 1/2" DIA. X 5"
EP-C	1/2" X 9" X 0'-9"	(4) 1/2" DIA. X 5"
EP-D	1/2" X 6" X 0'-6"	(4) 1/2" DIA. X 5"
EP-E	L8X8X1/2 X 1'-0"	(6) 5/8" DIA. X 4"
EP-F	L8X8X1/2 X 0'-9"	(6) 5/8" DIA. X 4"

NOTES:

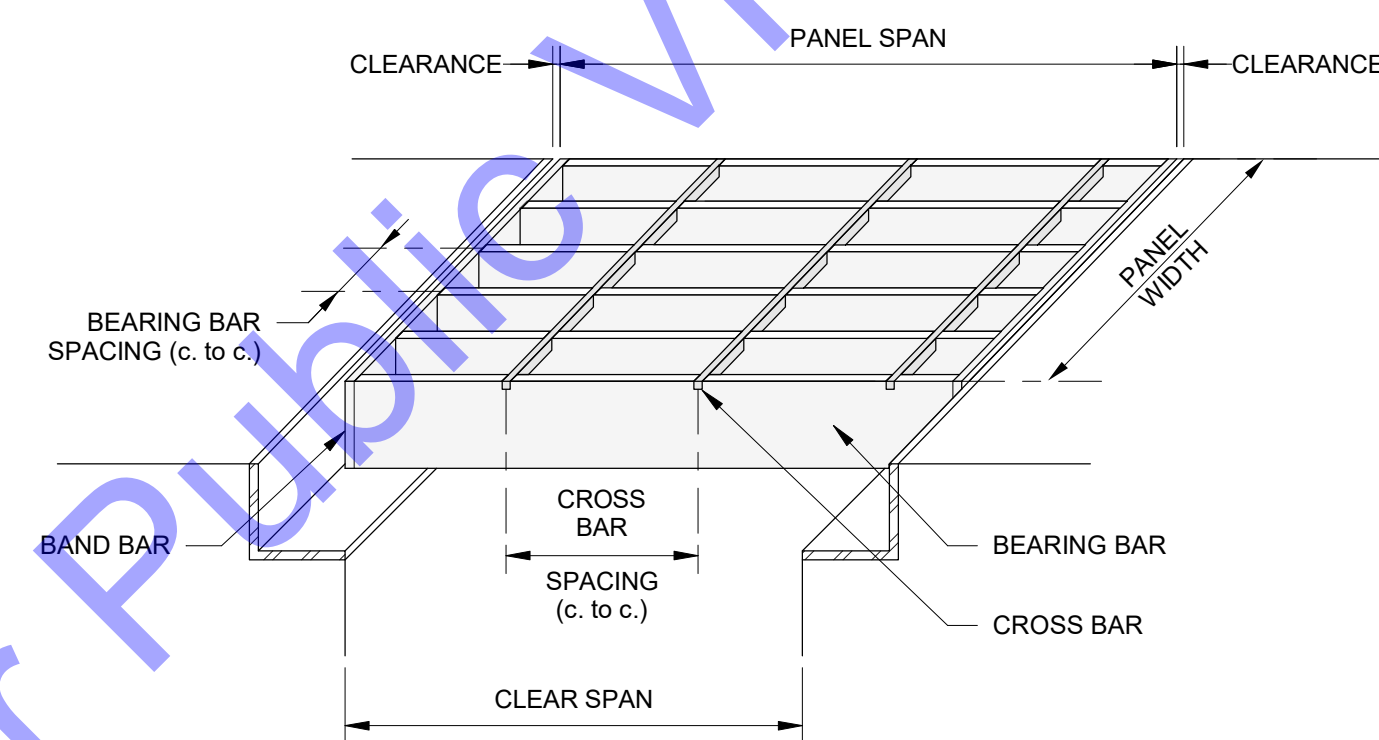
- HEADED ANCHOR STUDS SHALL BE AUTOMATICALLY END-WELDED USING NELSON STUD WELDING EQUIP. OR APPROVED EQUIVALENT. HAND WELDING IS NOT ACCEPTABLE.
- COORDINATE PLACEMENT WITH REINFORCING AND OTHER ITEMS EMBEDDED IN CONCRETE.

3 POST-INSTALLED CONNECTION SCHEDULE
S0-7 1" = 1'-0"

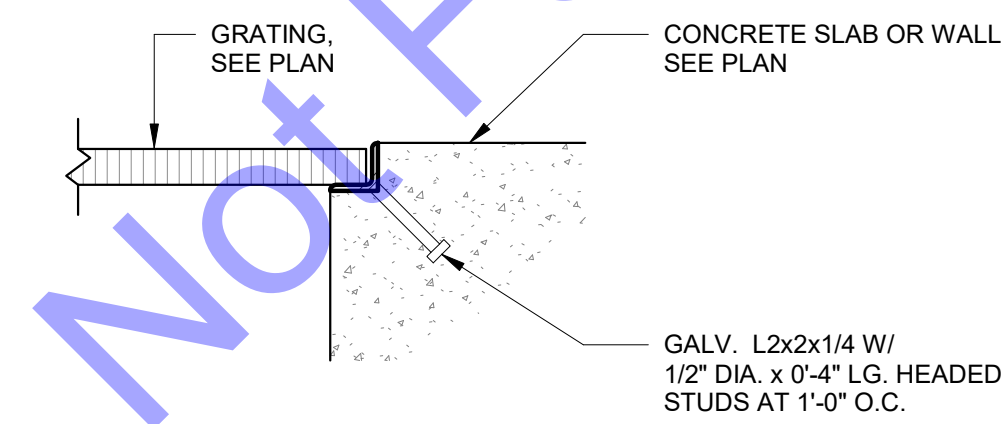
1 EMBED PLATE SCHEDULE
S0-7 1" = 1'-0"



4 TYP. EXTERIOR STAIR LANDING FOUNDATION
S0-7 1/2" = 1'-0"

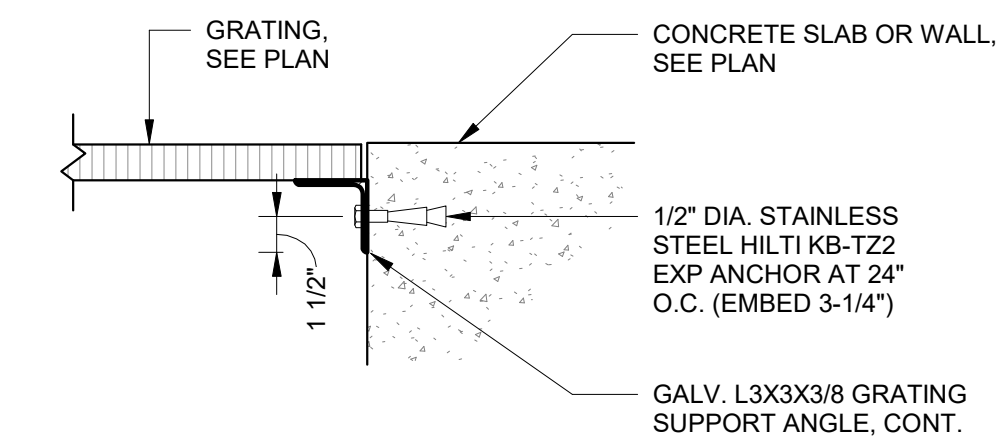


5 TYP. GRATING PANEL
S0-7 3" = 1'-0"

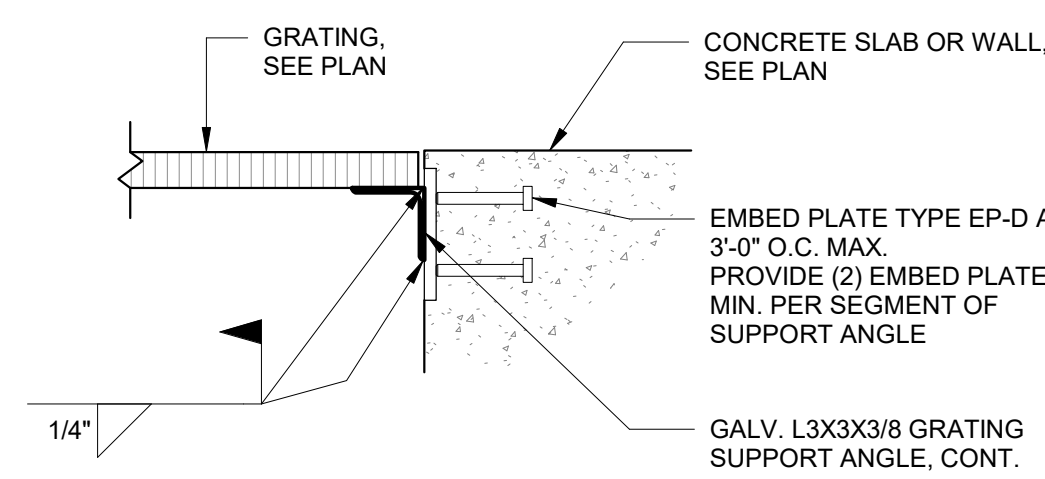


METHOD 1: EMBEDDED ANGLE

NOTE: THIS METHOD CAN ONLY BE USED WITH GRATING THAT IS LOCATED AT TOP OF WALL OR SLAB



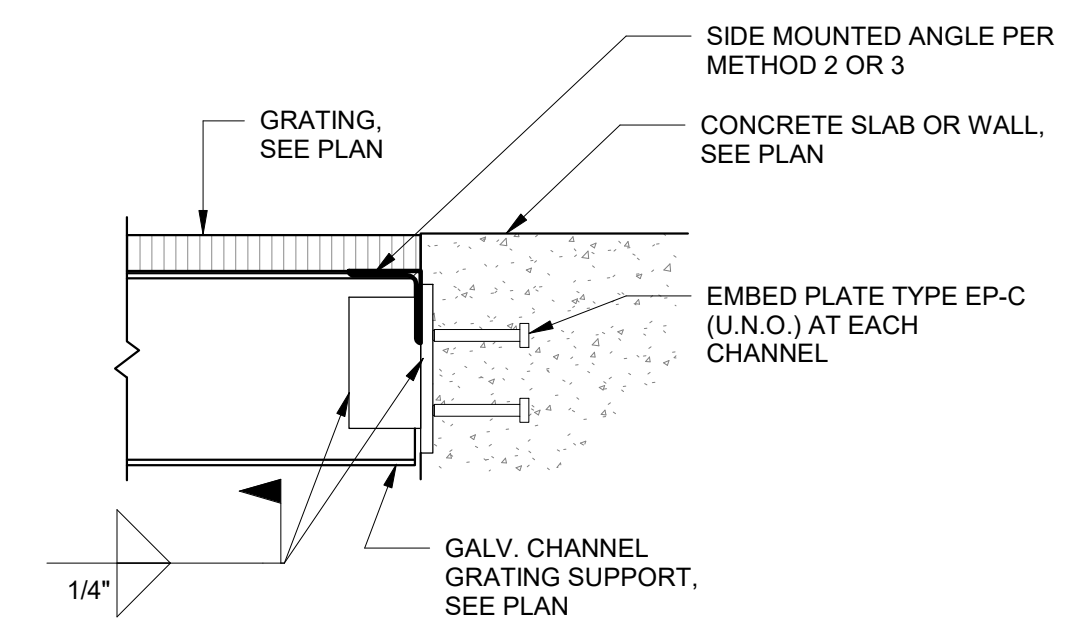
METHOD 2: SIDE MOUNTED ANGLE W/ EXPANSION ANCHORS



METHOD 3: SIDE MOUNTED ANGLE W/ EMBED PLATES

NOTE:

- CONTRACTOR'S OPTION: UNLESS OTHERWISE NOTED ON PLANS, GRATING SUPPORT CAN BE PROVIDED BY ANY ONE OF THESE THREE METHODS WHERE GRATING EDGE IS SUPPORTED BY CONCRETE SLAB OR WALL.
- SEE PROCESS DRAWINGS FOR LIMITS OF GRATING SUPPORT



METHOD 4: CHANNEL W/ EMBED PLATES

2 TYP. GRATING SUPPORT AT CONCRETE SLAB OR WALL
S0-7 1 1/2" = 1'-0"

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Walter Murray
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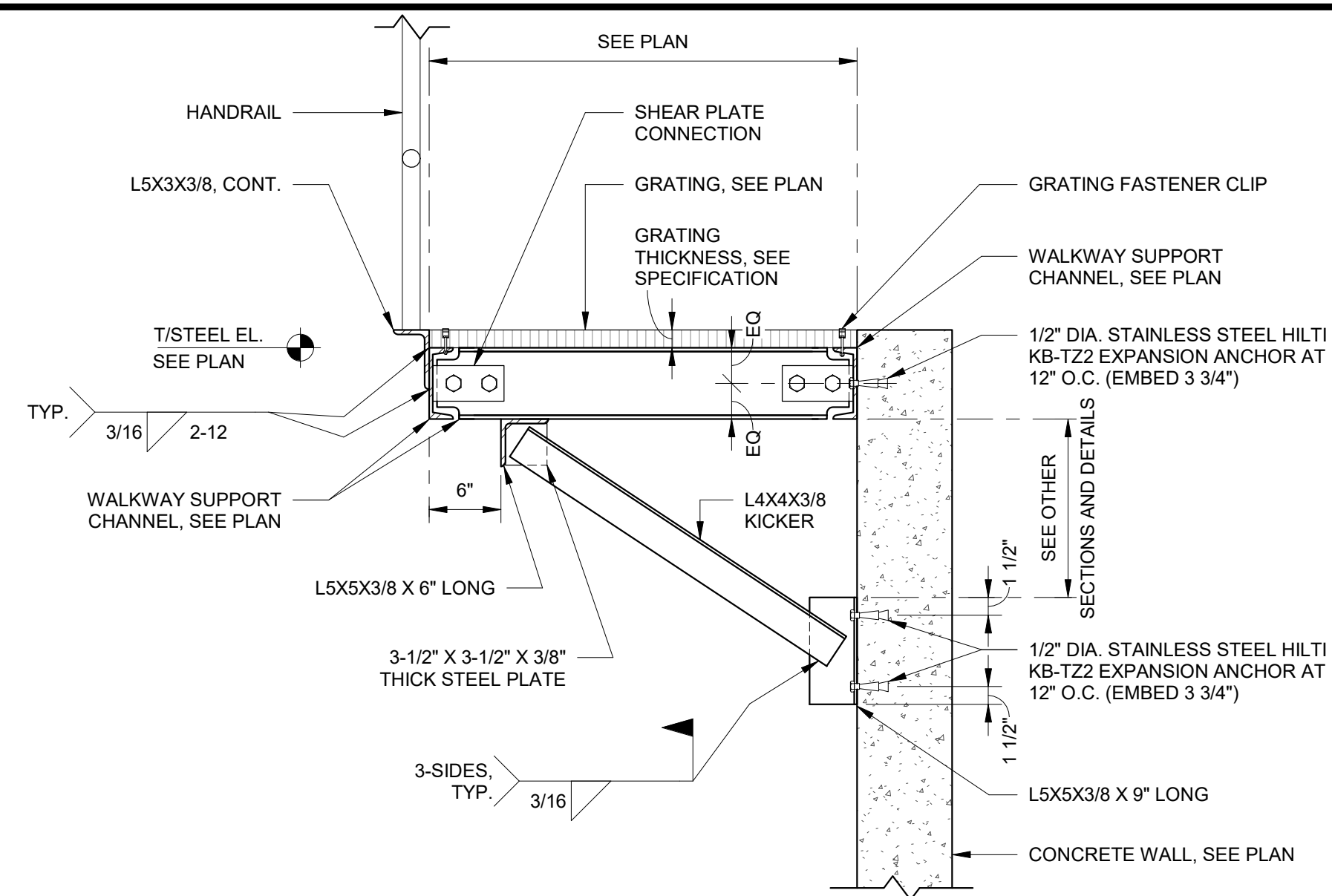
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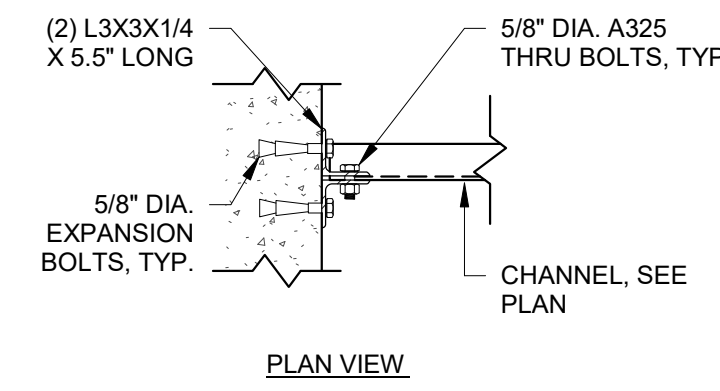
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TYPICAL STRUCTURAL DETAILS - STAIRS - 02

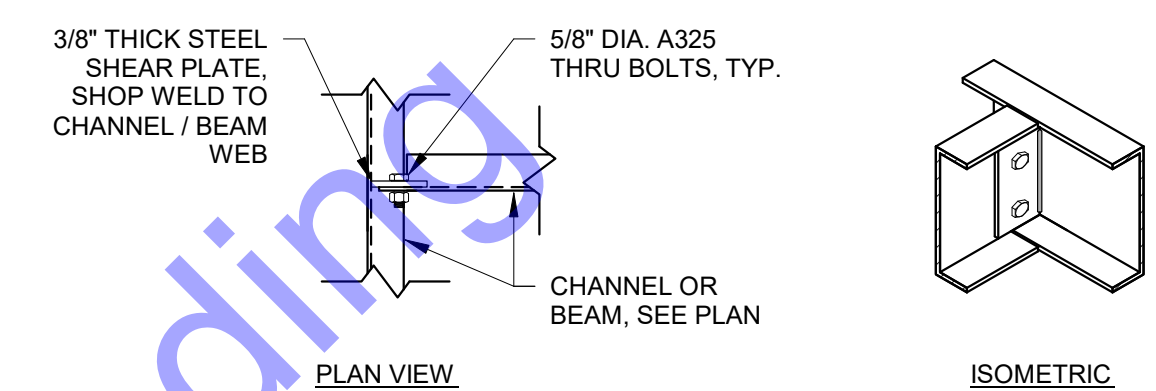
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S0-7
Sheet: 128 OF 177



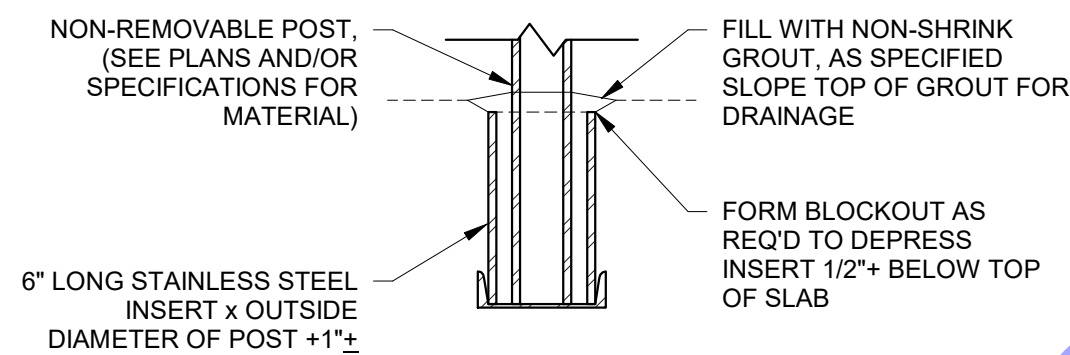
5 WALKWAY ALONG WALL
S0-8 1" = 1'-0"



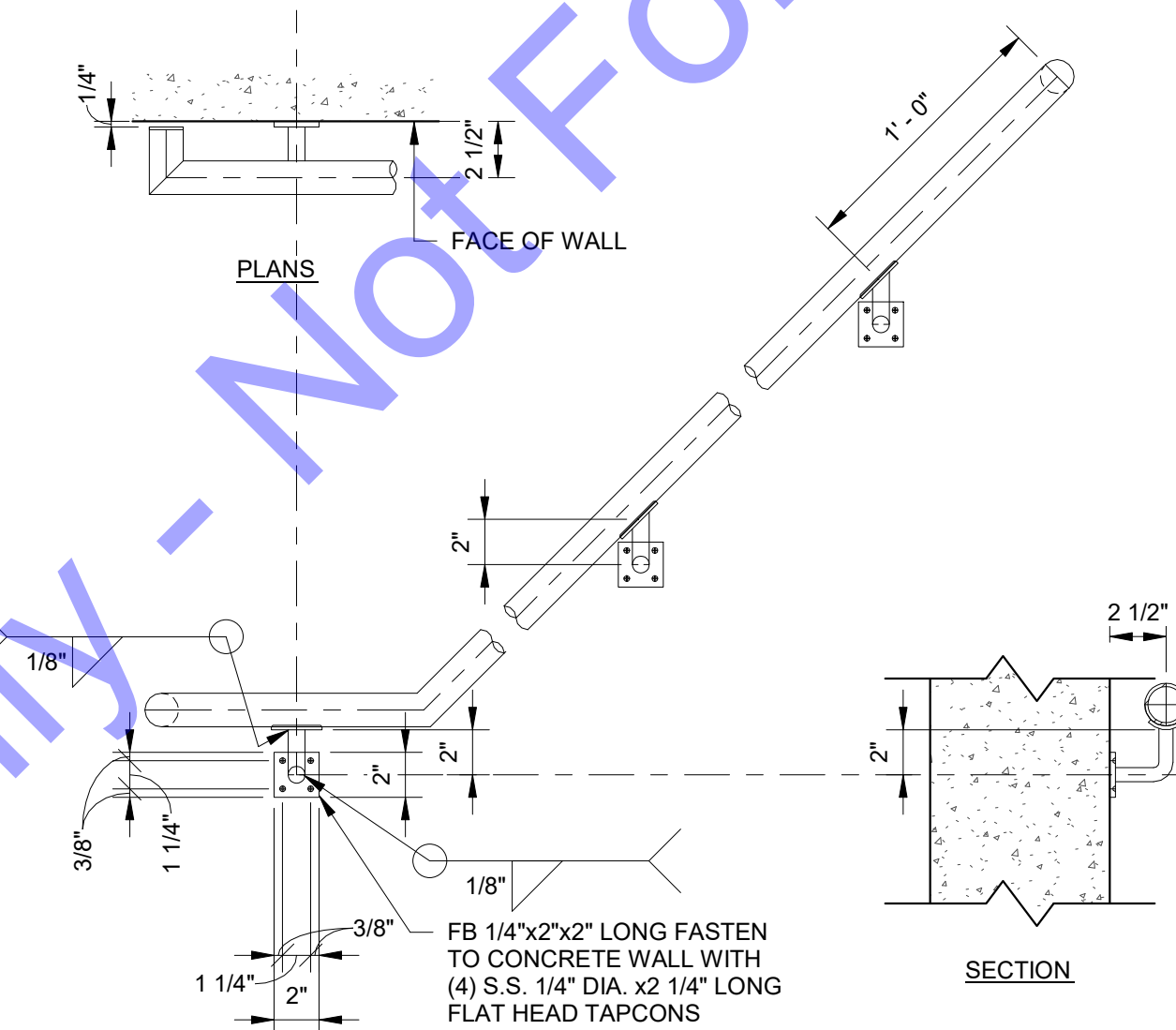
3 TYP. CHANNEL TO WALL CONNECTION
S0-8 1" = 1'-0"



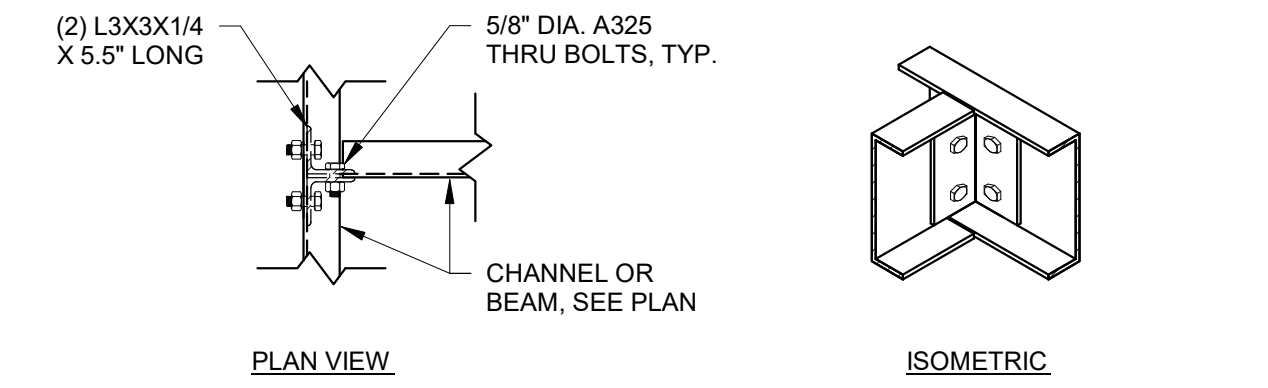
1 TYP. CHANNEL TO CHANNEL CONNECTION - SHEAR PLATE
S0-8 1" = 1'-0"



6 TYP. EMBEDDED MOUNTING
S0-8 1" = 1'-0"



4 TYP. HANDRAIL DETAIL
S0-8 1 1/2" = 1'-0"



2 TYP. CHANNEL TO CHANNEL CONNECTION - DOUBLE ANGLE
S0-8 1" = 1'-0"

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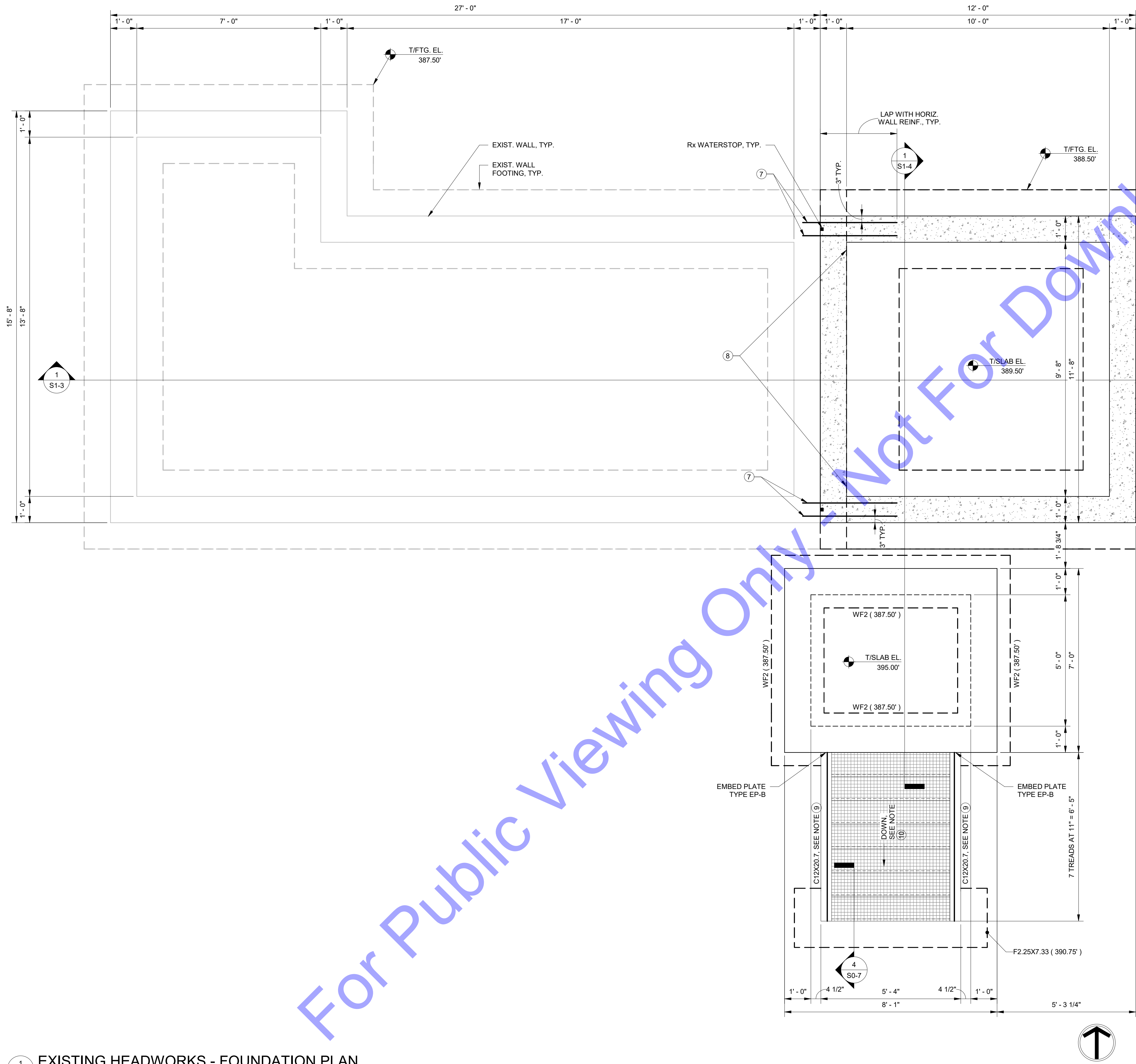
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TYPICAL STRUCTURAL DETAILS - STAIRS - 03
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- FOUNDATION PLAN NOTES**
- INDICATES NOTE REFERENCED IN PLAN
 - 1. SEE THE S0-SERIES SHEETS FOR GENERAL STRUCTURAL NOTES AND TYPICAL STRUCTURAL DETAILS.
 - 2. GENERAL CONTRACTOR TO COORDINATE ALL OPENING, PIPE SLEEVES, EMBEDDED ITEMS, HANDRAILS, GRATING, ETC. WITH THE PROCESS DRAWINGS.
 - 3. ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED PRIOR TO FABRICATION, CONSTRUCTION OR ERECTION. THE GENERAL CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DISCREPANCIES.
 - 4. SEE SITE PLAN FOR ALL FINAL GRADE ELEVATIONS.
 - 5. SEE GEOTECHNICAL REPORT FOR ALL BACKFILLING AND COMPACTION REQUIREMENTS BEHIND WALLS AND UNDER BASE SLABS.
 - 6. MAINTAIN STRUCTURAL SLAB THICKNESSES AT ALL FLOOR SLOPES AND DEPRESSIONS.
 - 7. THE WALLS OF THE ADDITION SHALL BE CONNECTED TO THE EXISTING CONCRETE USING #5 HORIZONTAL BARS AT 12" O.C., EACH FACE, FOR THE FULL HEIGHT OF THE WALL, ANCHORED USING THE HILTI HIT-HY 200 V3 SYSTEM WITH 8" EMBEDMENT, OR APPROVED EQUIVALENT.
 - 8. ANCHOR THE LONGITUDINAL REINFORCEMENT FOR THE NEW WALL FOOTINGS TO THE EXISTING WALL FOOTINGS USING THE HILTI HIT-HY 200 V3 SYSTEM WITH 8" EMBEDMENT, OR APPROVED EQUIVALENT.
 - 9. SEE PLAN FOR STEEL STAIR STRINGER MINIMUM SIZE REQUIREMENTS. STEEL FABRICATOR SHALL DETERMINE REQUIRED STAIR STRINGER PROFILE TO ACCOMMODATE PROVIDED STAIR LENGTH DIMENSIONS AND ELEVATION CHANGE.
 - 10. STAIR TREADS SHALL BE 2" THICK PULTRUDED FIBER REINFORCED POLYMER GRATING UNLESS OTHERWISE NOTED. CONTRACTOR SHALL DETERMINE REQUIRED STAIR RISE / RUN LAYOUT. SEE TYPICAL STAIR DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 - 11. ALL STRUCTURAL STEEL SHALL BE HOT-DIPPED GALVANIZED.

NOTE - BACKFILL BEHIND CONCRETE WALLS:

1. BACKFILL SHALL BE PLACED SIMULTANEOUSLY ON OPPOSING SIDES OF THE WALLS WHILE BACKFILLING.
2. WALL BACKFILL SHALL BE FREE DRAINING GRANULAR MATERIAL EXTENDING FROM THE BASE OF THE WALL AT A 45-DEGREE ANGLE FROM VERTICAL TO FINISHED GRADE.
3. SEE THE GEOTECHNICAL REPORT FOR BACKFILL COMPACTION REQUIREMENTS.

SPREAD FOOTING SCHEDULE					
MARK	WIDTH	LENGTH	THICK.	BOTT. LONG. REINF.	BOTT. TRANS. REINF.
F2.25X7.33	2'-3"	7'-4"	3'-3"	4 - #5 TOP & BOTT.	#4 STIRRUPS AT 12" O.C.

WALL FOOTING SCHEDULE				
MARK	WIDTH	THICK.	BOTT. LONG. REINF.	BOTT. TRANS. REINF.
WF2	2'-0"	1'-0"	3 - #5 CONT.	#5 AT 18" O.C.

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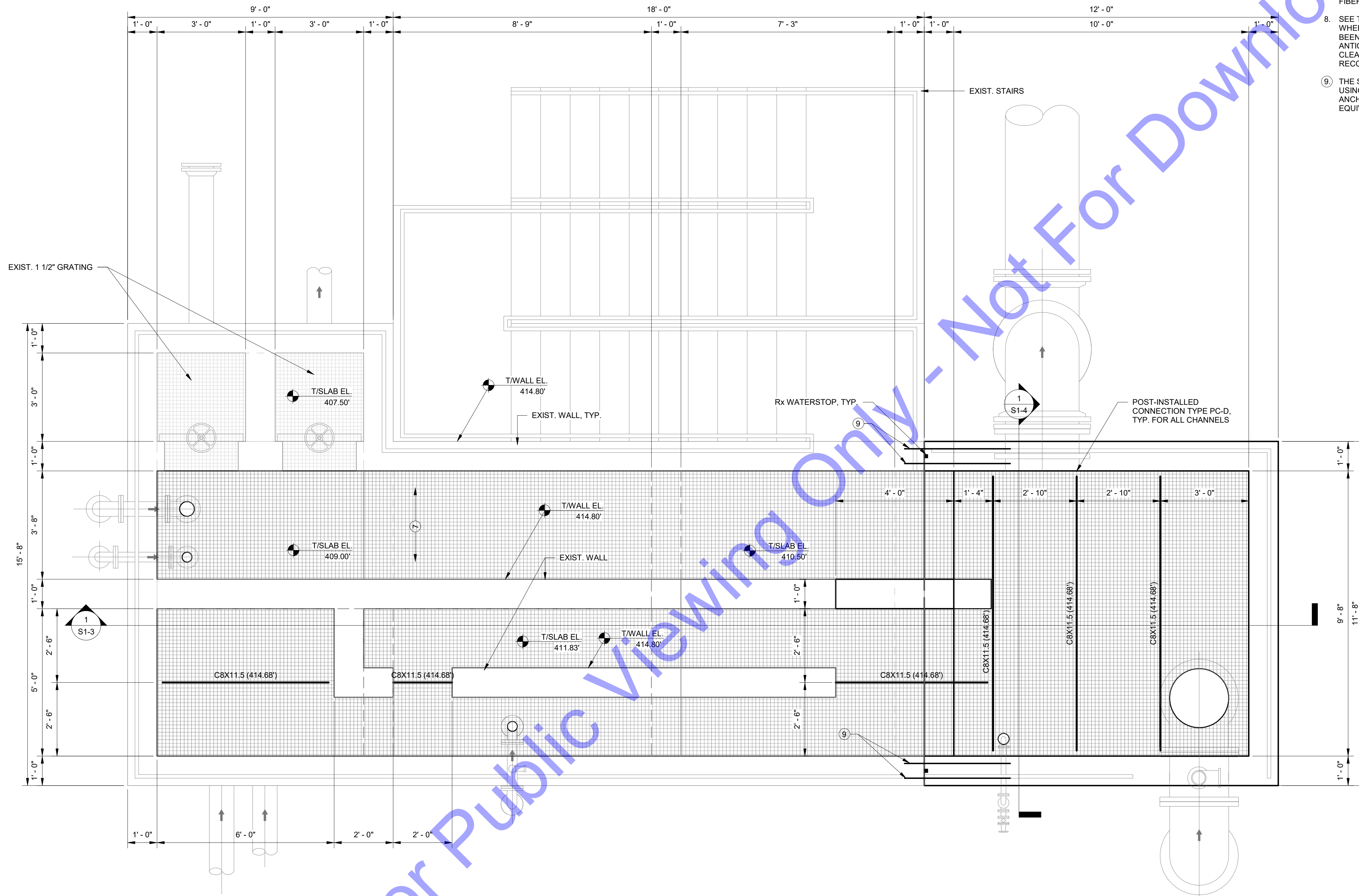
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EXISTING HEADWORKS - FOUNDATION PLAN

Drawing No: **S1-1**
 Sheet: 130 OF 177



UPPER LEVEL PLAN NOTES

- INDICATES NOTE REFERENCED IN PLAN
- 1. SEE THE S0-SERIES SHEETS FOR GENERAL STRUCTURAL NOTES AND TYPICAL STRUCTURAL DETAILS.
- 2. GENERAL CONTRACTOR TO COORDINATE ALL OPENING, PIPE SLEEVES, EMBEDDED ITEMS, HANDRAILS, GRATING, ETC. WITH THE PROCESS DRAWINGS.
- 3. ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED PRIOR TO FABRICATION, CONSTRUCTION OR ERECTION. THE GENERAL CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DISCREPANCIES.
- 4. SEE SITE PLAN FOR ALL FINAL GRADE ELEVATIONS.
- 5. SEE GEOTECHNICAL REPORT FOR ALL BACKFILLING AND COMPACTION REQUIREMENTS BEHIND WALLS AND UNDER BASE SLABS.
- 6. MAINTAIN STRUCTURAL SLAB THICKNESSES AT ALL FLOOR SLOPES AND DEPRESSIONS.
- 7. 1 1/2" GRATING, UNLESS NOTED OTHERWISE. SEE SPECIFICATION SECTION 'WM 20 - FIBERGLASS MATERIALS' FOR ADDITIONAL INFORMATION.
- 8. SEE THE PROCESS DRAWINGS FOR EXISTING WALLS TO BE DEMOLISHED. AT LOCATIONS WHERE WALL DEMOLITION WILL RESULT IN EXPOSED ENDS OF REINFORCING STEEL THAT HAS BEEN CUT, THE EXPOSED STEEL SHALL BE COATED WITH SIKKA ARMATEC-110 EPOCROM ANTI-CORROSION AGENT, OR APPROVED EQUIVALENT. THE EXPOSED STEEL SHALL BE CLEANED AND COATED IN ACCORDANCE WITH THE ANTI-CORROSION AGENT MANUFACTURER'S RECOMMENDATIONS.
- 9. THE SOUTH WALL OF THE ADDITION SHALL BE CONNECTED TO THE EXISTING CONCRETE USING #5 HORIZONTAL BARS AT 12" O.C. EACH FACE, FOR THE FULL HEIGHT OF THE WALL, ANCHORED USING THE HILTI HIT-HY 200 V33 SYSTEM WITH 8" EMBEDMENT, OR APPROVED EQUIVALENT.

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 Matthew R. Murski
 04/10/2024

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**CITY OF ROCKPORT
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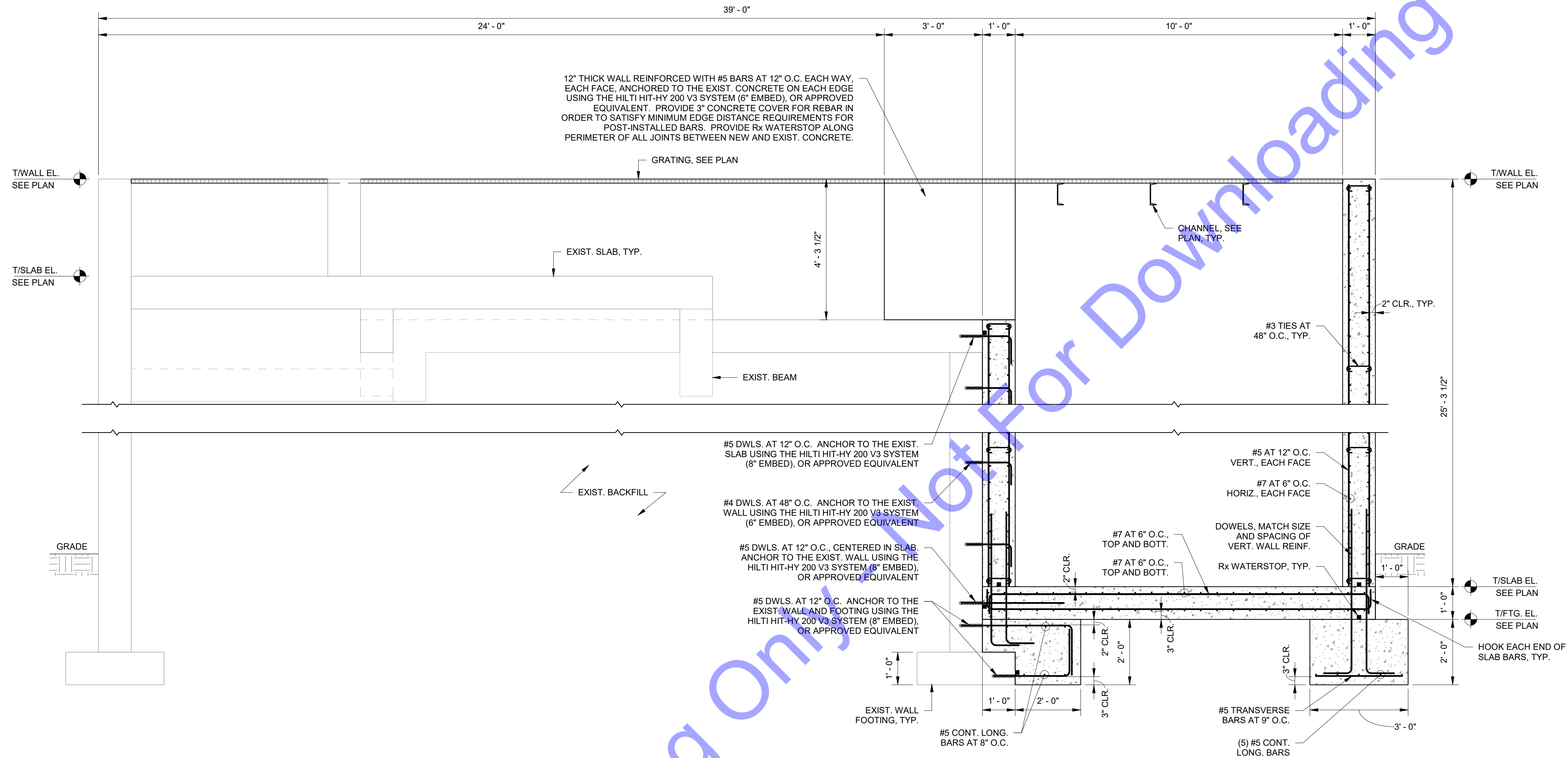
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EXISTING HEADWORKS - UPPER LEVEL PLAN

Drawing No:
S1-2
 Sheet: 131 OF 177

1 EXISTING HEADWORKS - UPPER LEVEL PLAN
 S1-2 1/2" = 1'-0"

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1 SECTION
S1-3 1/2" = 1'-0"

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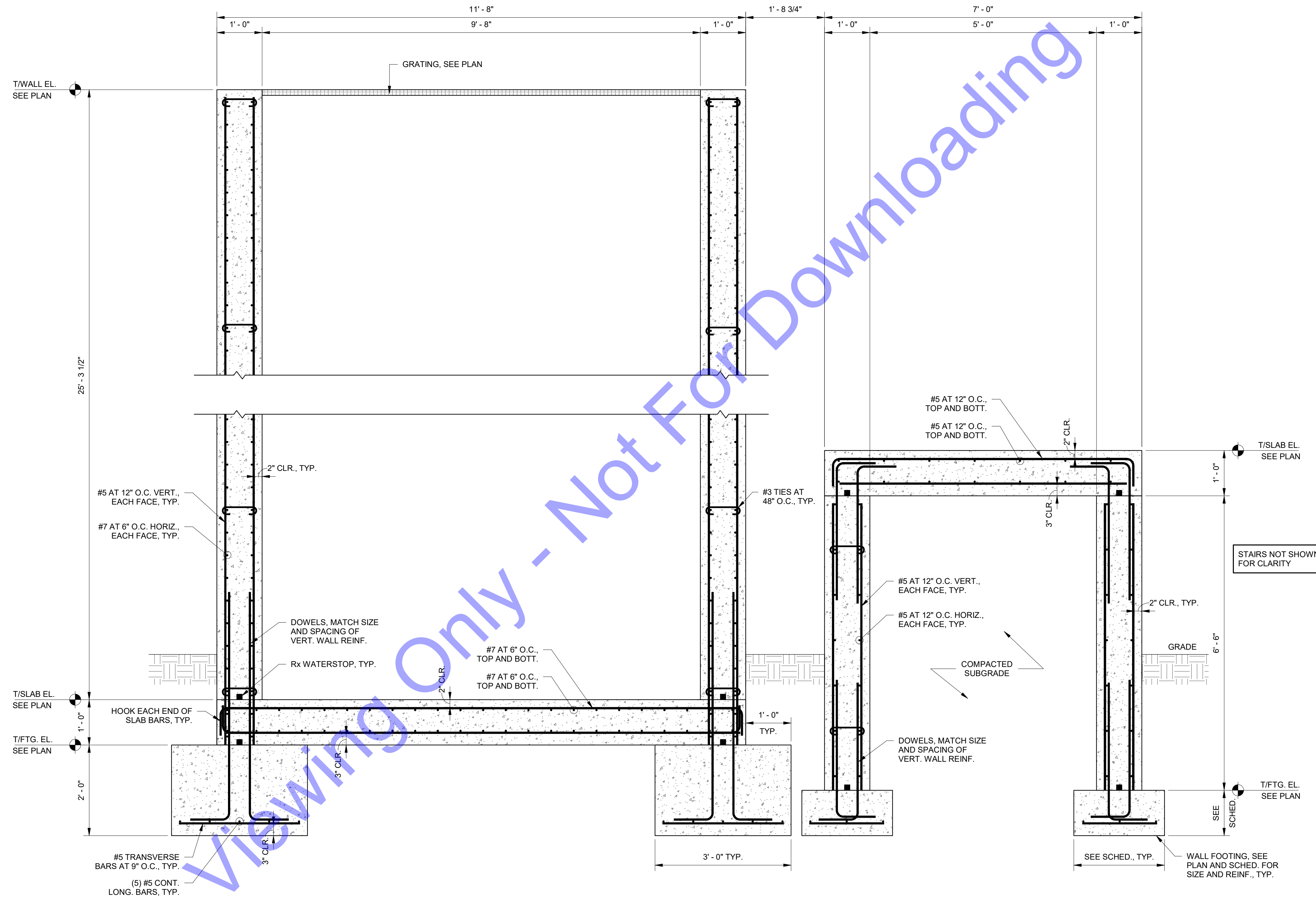
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Issue Date:	Project No:	Scale:
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EXISTING HEADWORKS - SECTIONS AND DETAILS

Drawing No:
S1-3

Sheet: 132 OF 177



1 SECTION
S1-4 3/4" = 1'-0"

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Signature: _____ Date: _____

Professional Engineer
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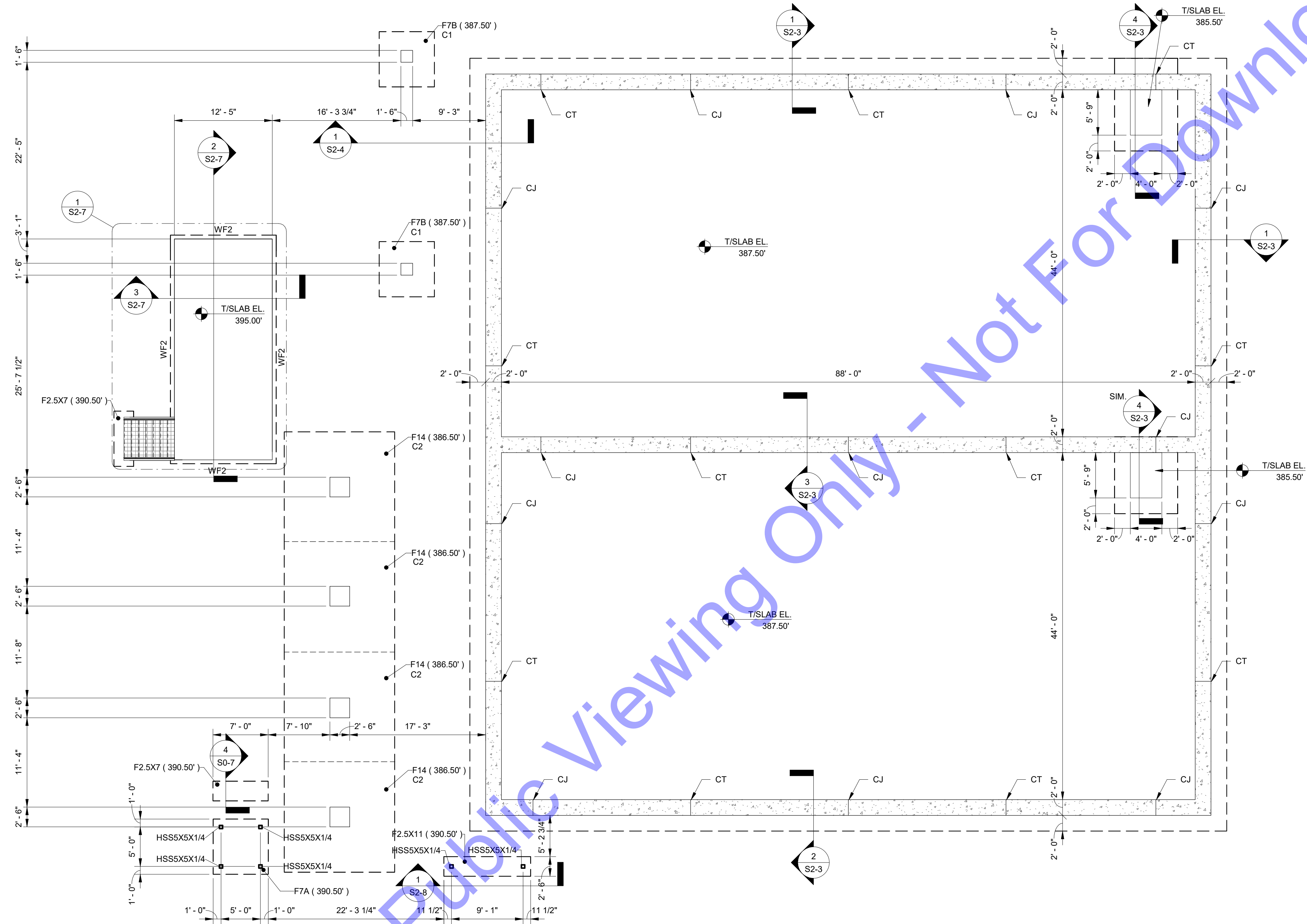
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Designed By: MRM	Drawn By: RMS	Checked By: AMS
Issue Date: 04/10/24	Project No: 22-182	Scale: 3/4" = 1'-0"

EXISTING HEADWORKS - SECTIONS AND DETAILS

Drawing No:
S1-4

Sheet: 133 OF 177



FOUNDATION PLAN NOTES

- INDICATES NOTE REFERENCED IN PLAN
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- 4. SEE SITE PLAN FOR ALL FINAL GRADE ELEVATIONS.
- 5. SEE GEOTECHNICAL REPORT FOR ALL BACKFILLING AND COMPACTION REQUIREMENTS BEHIND WALLS AND UNDER BASE SLABS.
- 6. GENERAL CONTRACTOR SHALL SUBMIT A CONSTRUCTION JOINT (CJ) AND CONTRACTION JOINT (CT) LOCATION PLAN TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO CONCRETE PLACEMENT.
- 7. SEE DETAILS 6/S0-3 AND 7/S0-3 FOR WALL CONSTRUCTION JOINT AND WALL CONTRACTION JOINT REQUIREMENTS.
- 8. MAINTAIN STRUCTURAL SLAB THICKNESSES AT ALL FLOOR SLOPES AND DEPRESSIONS.
- 9. SEE PROCESS AND MECHANICAL DRAWINGS FOR LOCATION OF EQUIPMENT PADS.
- 10. THE FOUNDATION DESIGNS SHOWN ARE BASED ON AN ALLOWABLE BEARING PRESSURE OF 4,000 PSF. ALL FOUNDATIONS SHALL BEAR ON SOIL IMPROVED BY THE INSTALLATION OF AN AGGREGATE PIER SYSTEM DESIGNED AND INSTALLED BY A SPECIALTY FOUNDATION CONTRACTOR.

SPREAD FOOTING SCHEDULE					
MARK	WIDTH	LENGTH	THICK.	LONG. REINF.	TRANS. REINF.
F2.5X7	2'-6"	7'-0"	3'-3"	SEE DETAIL 4/S0-7	SEE DETAIL 4/S0-7
F2.5X11	2'-6"	11'-0"	3'-3"	SEE DETAIL 4/S0-7	SEE DETAIL 4/S0-7
F7A	7'-0"	7'-0"	3'-3"	8 - #6 TOP & BOT.	8 - #6 TOP & BOT.
F7B	7'-0"	7'-0"	1'-6"	7 - #6 AT BOT.	7 - #6 AT BOT.
F14	14'-0"	14'-0"	2'-0"	11 - #8 TOP & BOT.	11 - #8 TOP & BOT.

WALL FOOTING SCHEDULE				
MARK	WIDTH	THICK.	LONG. REINF.	TRANS. REINF.
WF2	2'-0"	1'-0"	3 - #5 CONT.	#5 AT 18" O.C.

STEEL COLUMN SCHEDULE			
COLUMN SIZE	BASE PLATE	ANCHOR BOLTS	REFERENCE
HSS5x5x1/4	PL 3/4" x 1'-0" x 1'-0"	4 - 3/4" DIA.	8/S0-4

CONCRETE COLUMN SCHEDULE					
MARK	WIDTH	DEPTH	VERT. REINF.	TIES	REFERENCE
C1	1'-6"	1'-6"	8 - #9	#4 AT 12" O.C.	5/S2-3
C2	2'-6"	2'-6"	12 - #8	SEE DETAIL	5/S2-6

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Professional Engineer
 STATE OF INDIANA
 PE11500002
 Signature: *Mark Murray* Date: 04/10/2024

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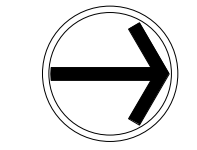
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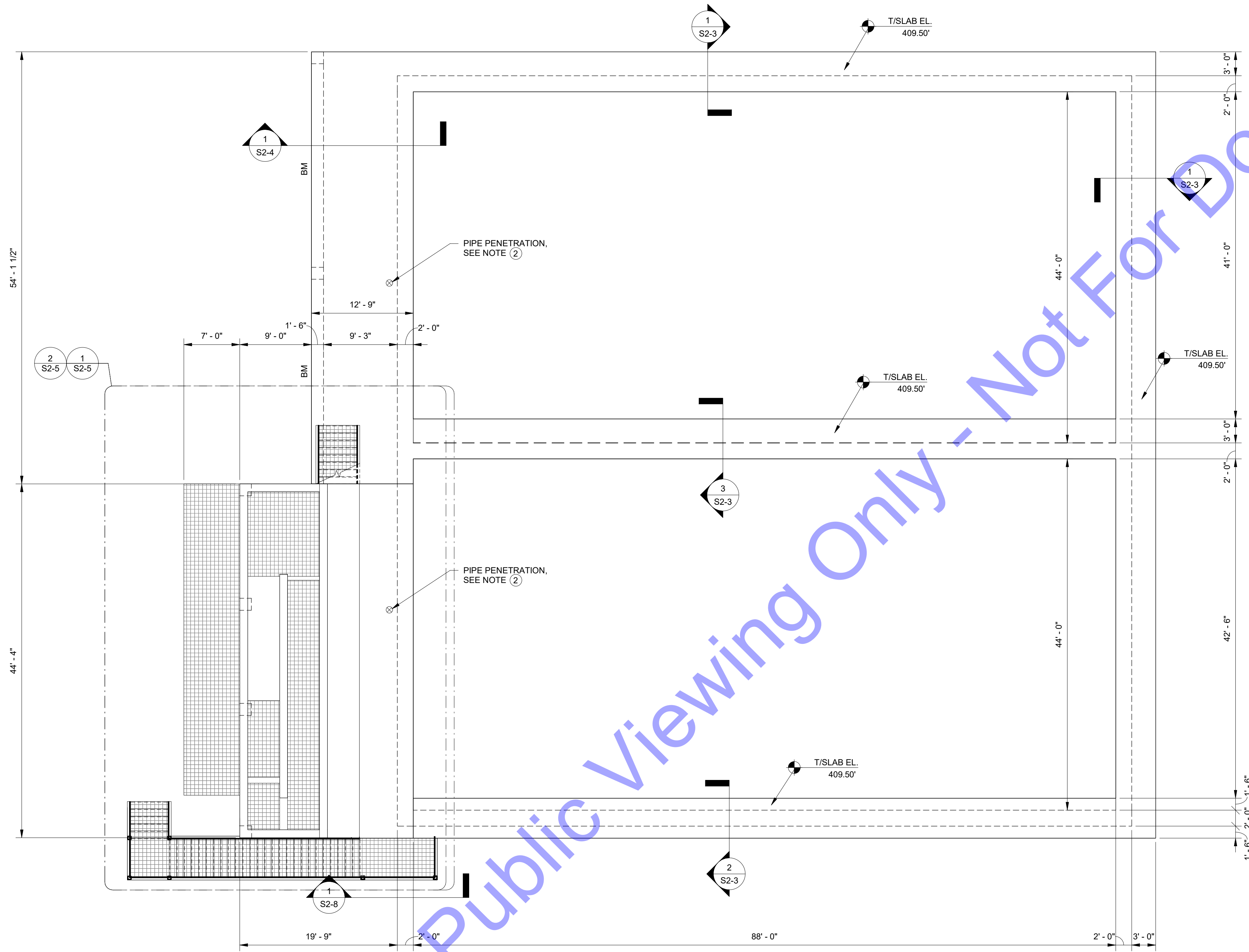
NEW SBR TREATMENT FACILITY - FOUNDATION PLAN

Drawing No:
S2-1

Sheet: 134 OF 177

1 FOUNDATION PLAN
 S2-1 1/8" = 1'-0"





UPPER LEVEL PLAN NOTES

- INDICATES NOTE REFERENCED IN PLAN
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- 5. MAINTAIN STRUCTURAL SLAB THICKNESSES AT ALL FLOOR SLOPES AND DEPRESSIONS.
- 6. 1 1/2" GRATING, UNLESS NOTED OTHERWISE. SEE SPECIFICATION SECTION 'WM 20 - FIBERGLASS MATERIALS' FOR ADDITIONAL INFORMATION.

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 PE11500002
 Matthew R. Murray
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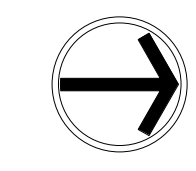
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NEW SBR TREATMENT FACILITY - UPPER LEVEL PLAN

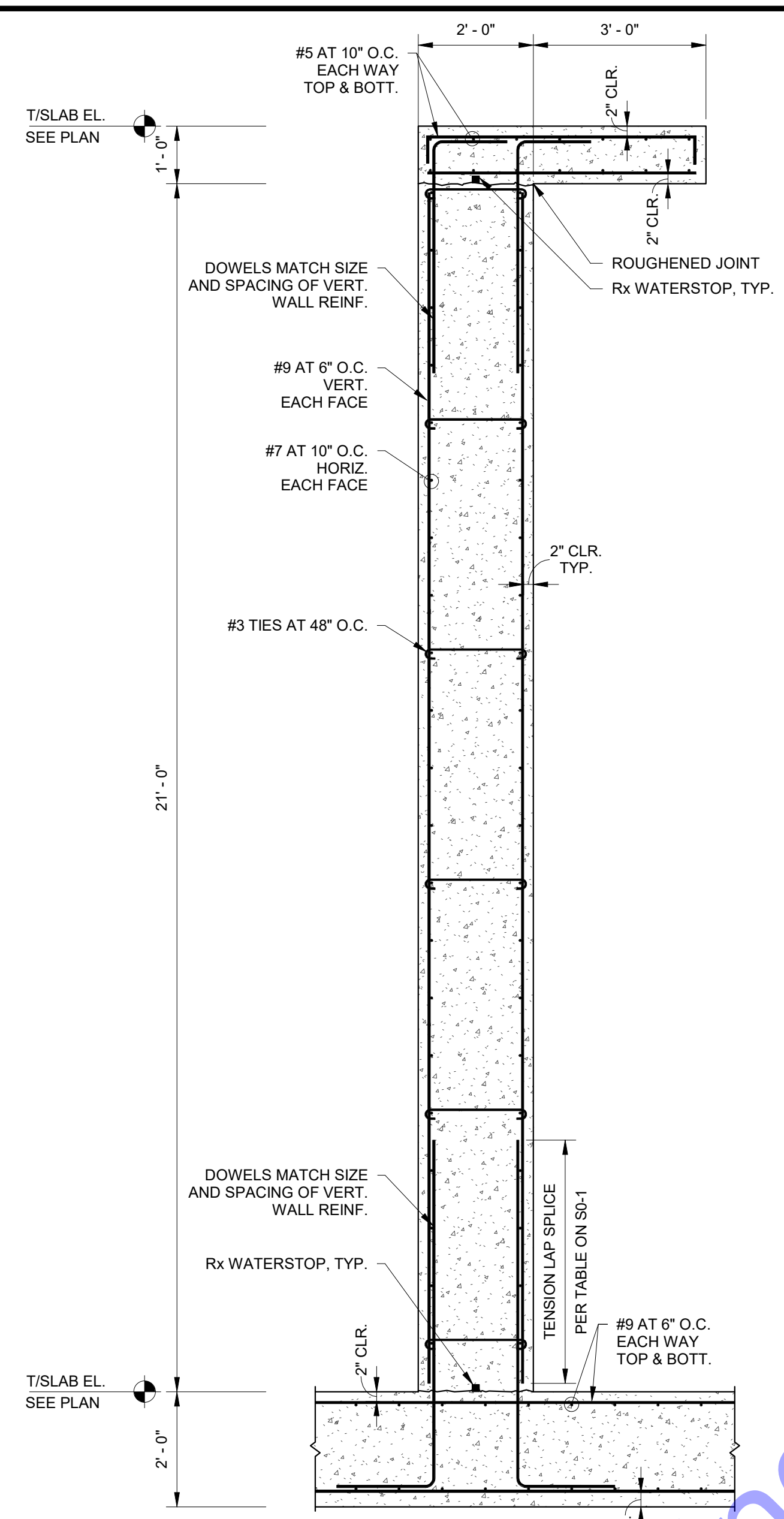
Drawing No:
S2-2
 Sheet: 135 OF 177

1
 S2-2
 UPPER LEVEL PLAN
 1/8" = 1'-0"

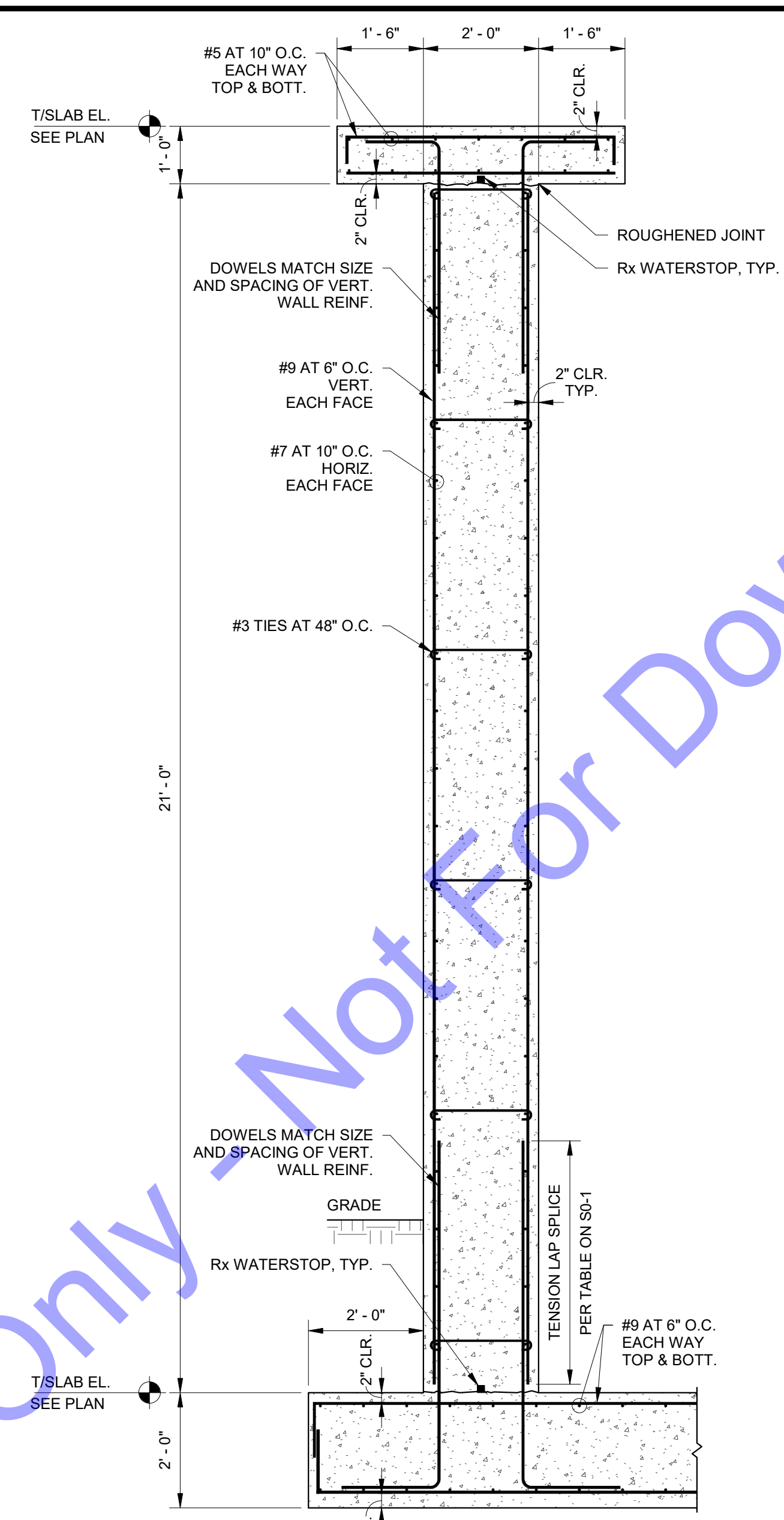


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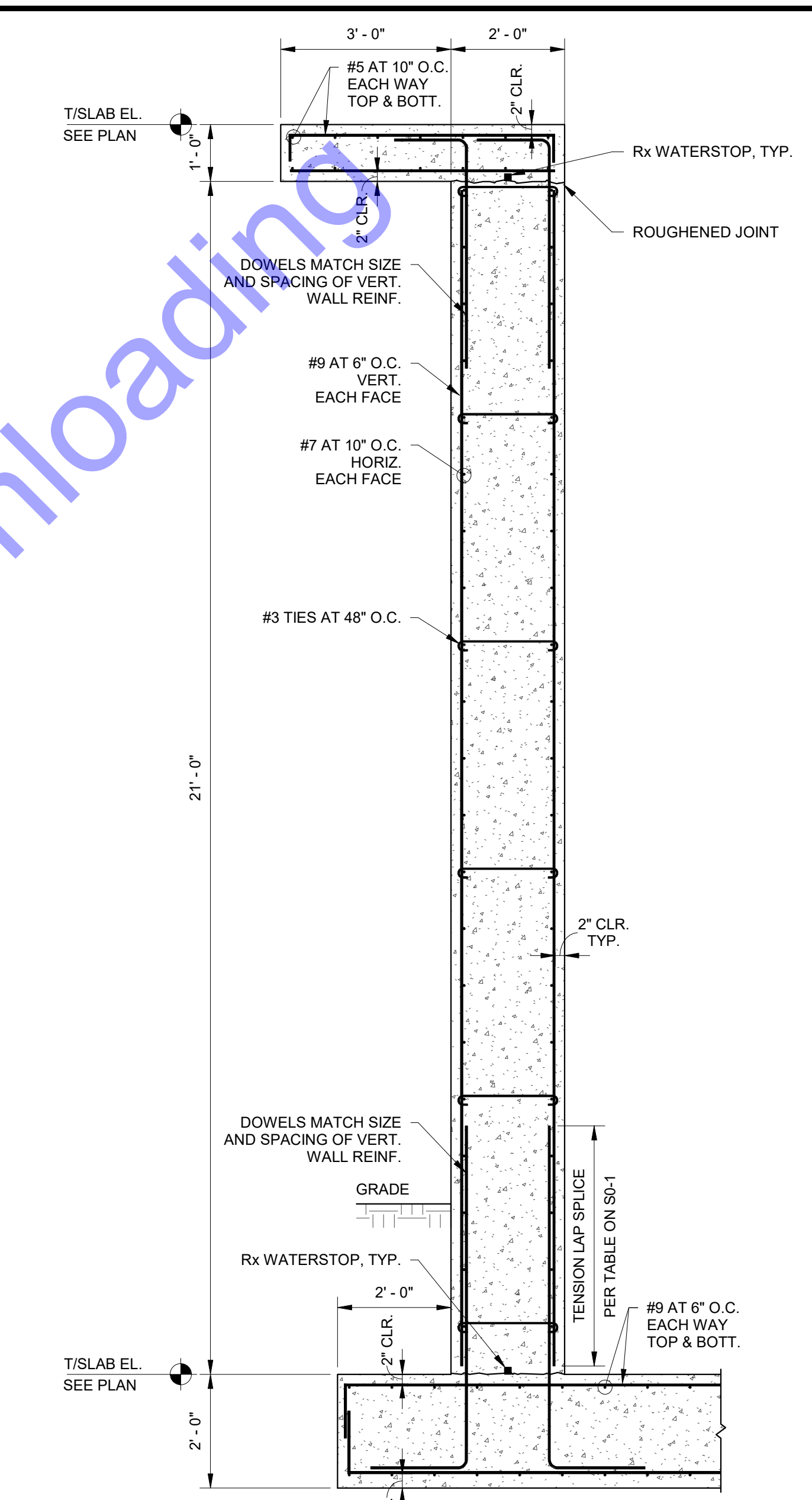
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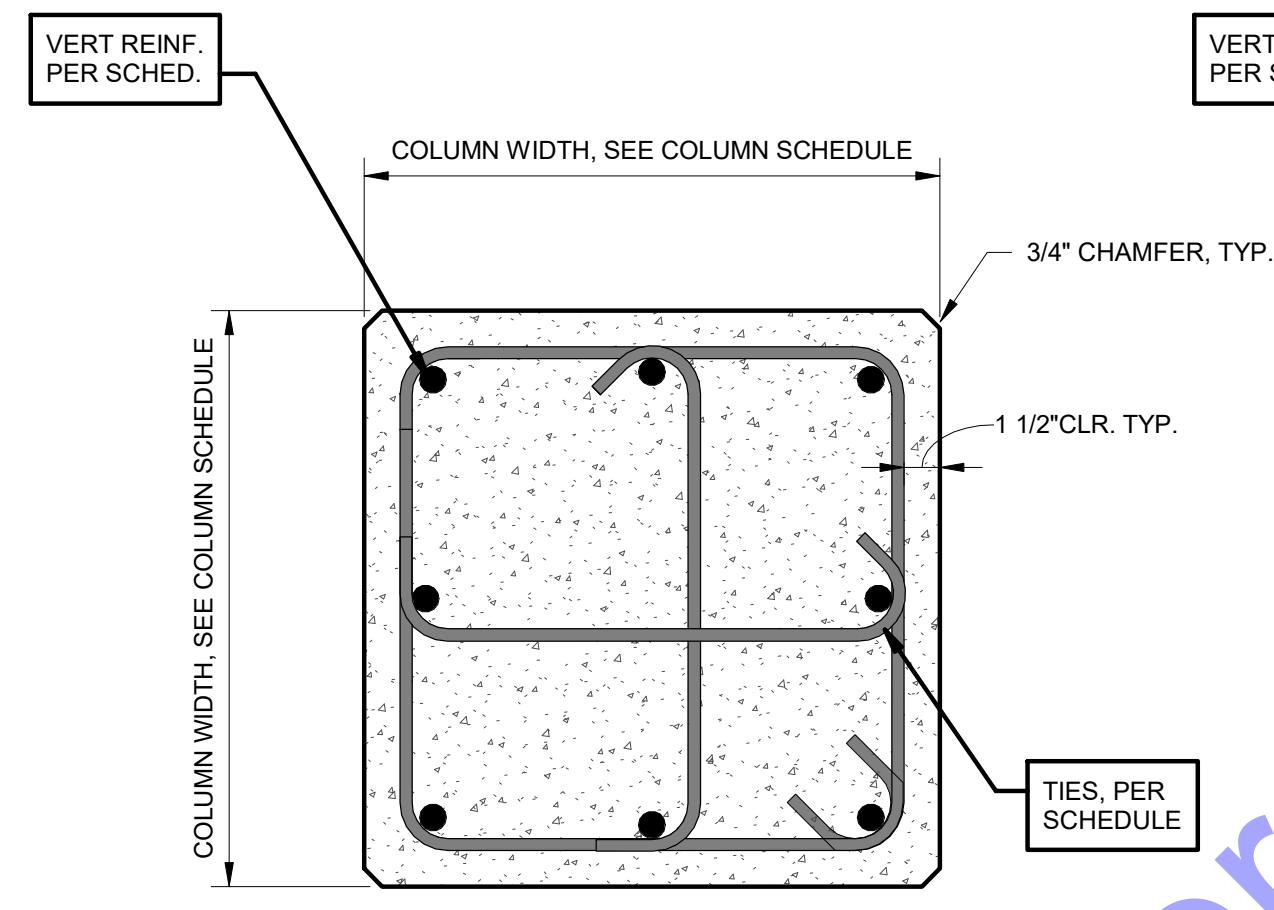
3 SECTION
S2-3 1/2" = 1'-0"



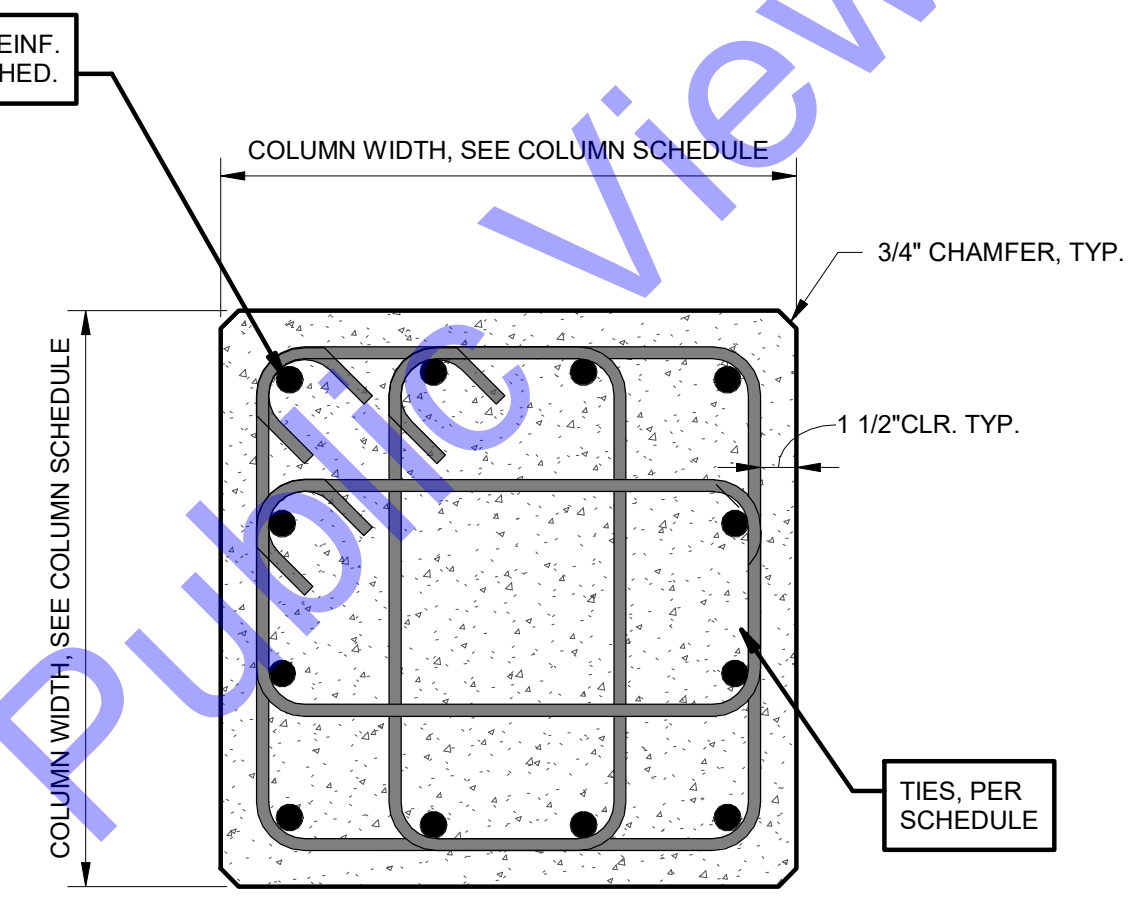
2 SECTION
S2-3 1/2" = 1'-0"



1 SECTION
S2-3 1/2" = 1'-0"

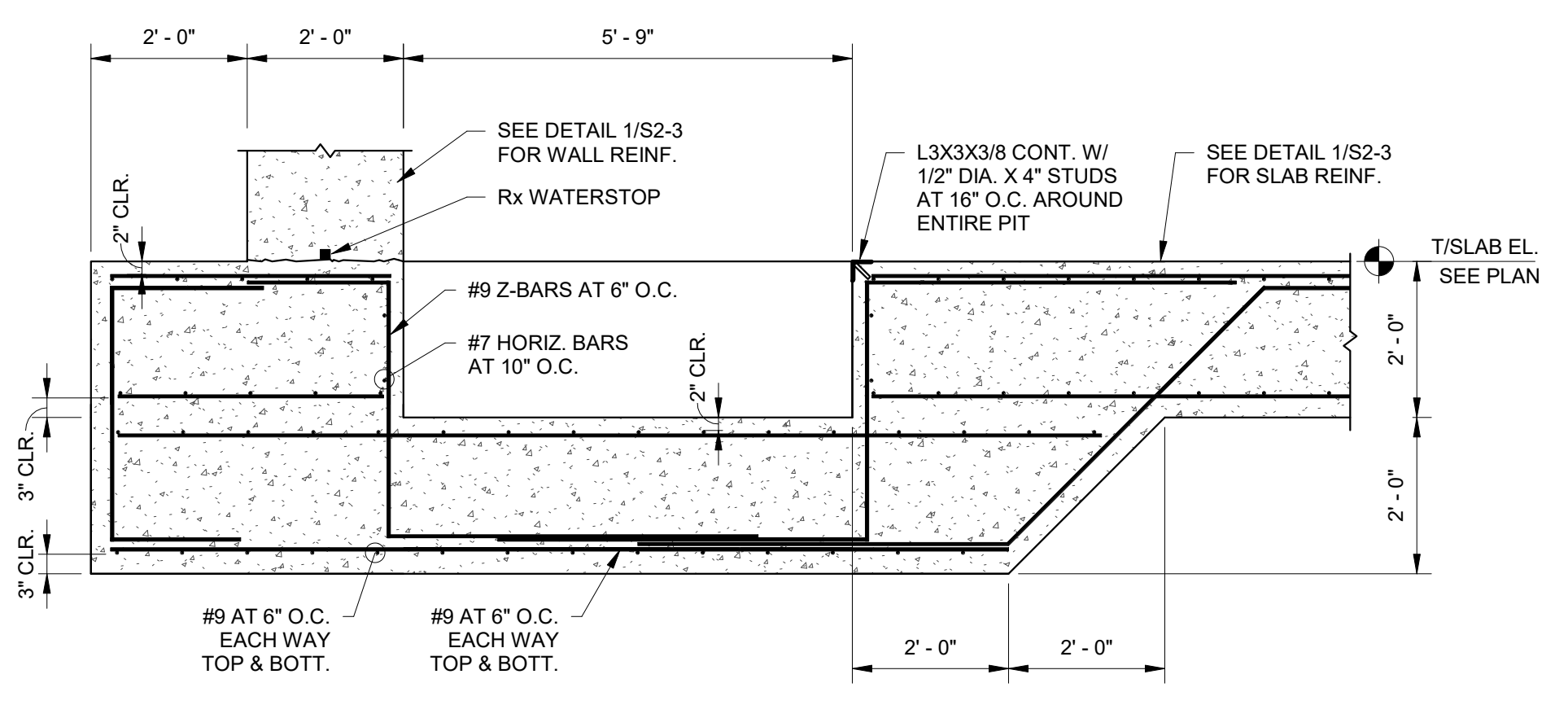


COLUMN WITH 8 VERTICAL BARS
(TIE CONFIGURATION "T1")



COLUMN WITH 12 VERTICAL BARS
(TIE CONFIGURATION "T2")

5 TYPICAL COLUMN REINFORCING
S2-3 1 1/2" = 1'-0"



4 SECTION
S2-3 1/2" = 1'-0"

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STATE OF INDIANA
PE11500002
Matthew R. Murray
Signature _____ Date _____

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structural engineers
8770 North US 40 33748-9922
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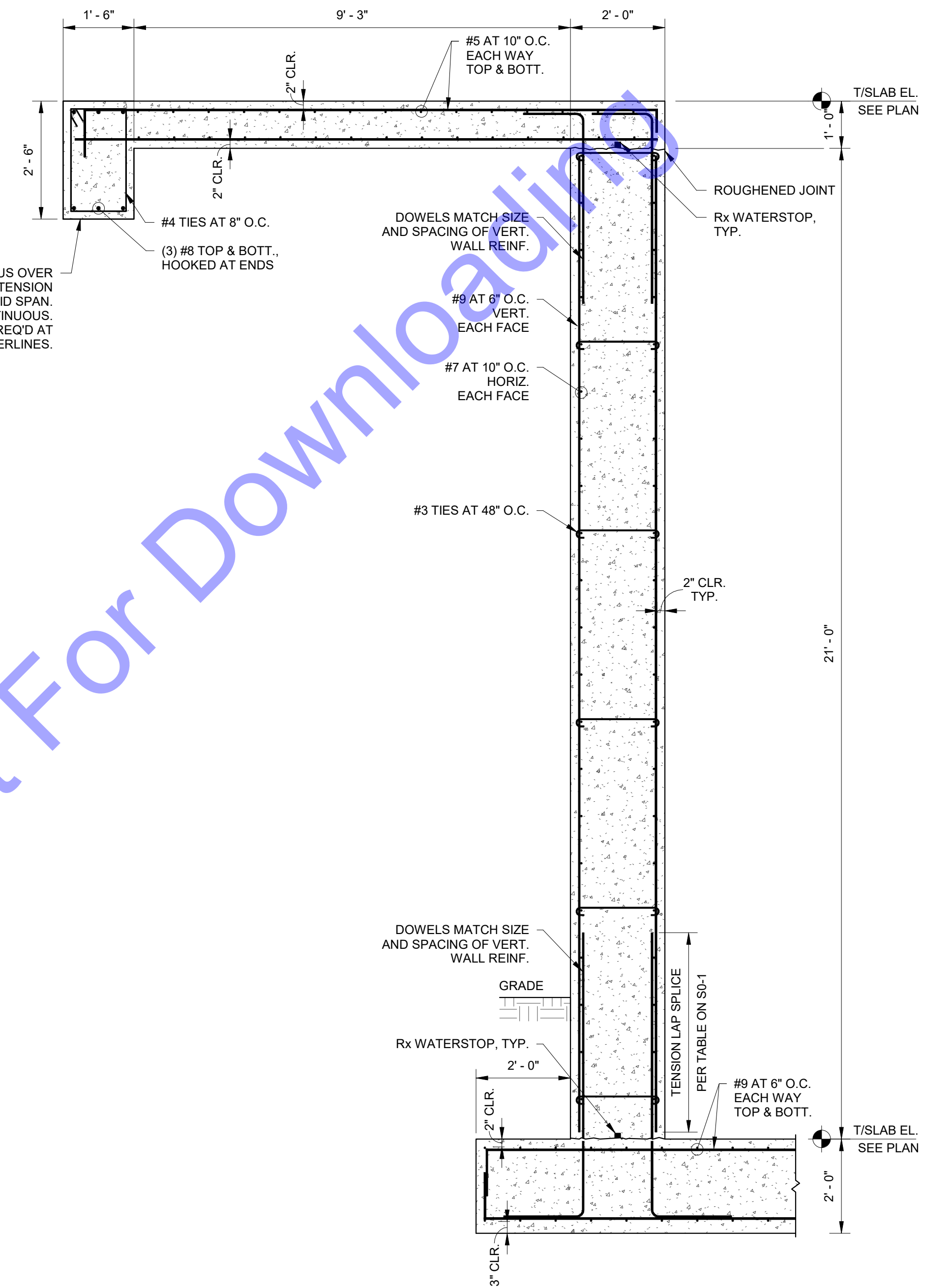
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NEW SBR TREATMENT FACILITY - SECTIONS AND DETAILS

Drawing No:
S2-3
Sheet: 136 OF 177

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TOP BARS SHALL BE CONTINUOUS OVER MIDDLE SUPPORTS. PROVIDE TENSION SPLICE IF REQ'D AT BEAM MID SPAN. BOTTOM BARS SHALL BE CONTINUOUS. PROVIDE TENSION SPLICE IF REQ'D AT COLUMN CENTERLINES.



1 SECTION
S2-4 1/2" = 1'-0"

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NEW SBR TREATMENT FACILITY - SECTIONS AND DETAILS

Drawing No:
S2-4

Sheet: 137 OF 177

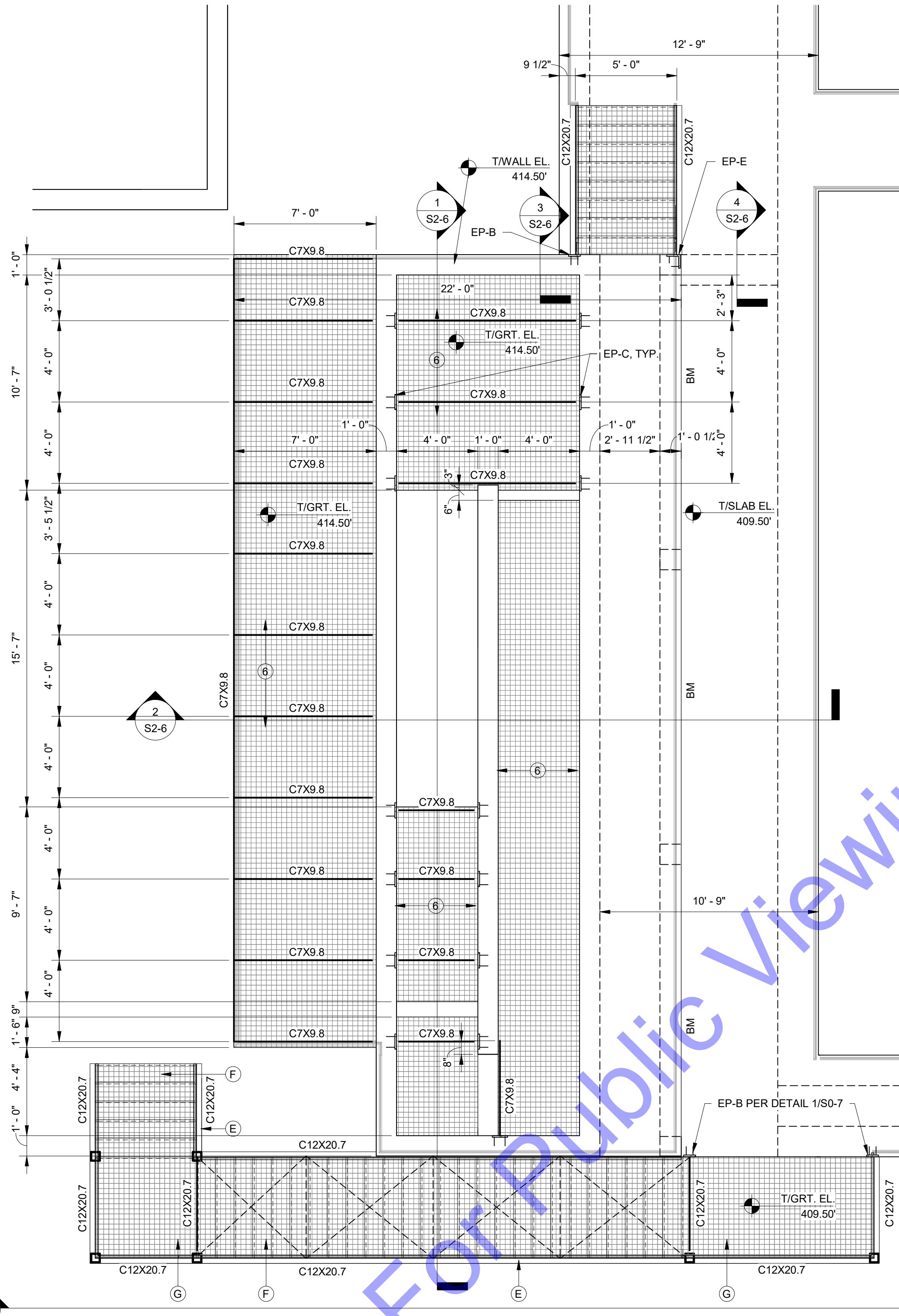
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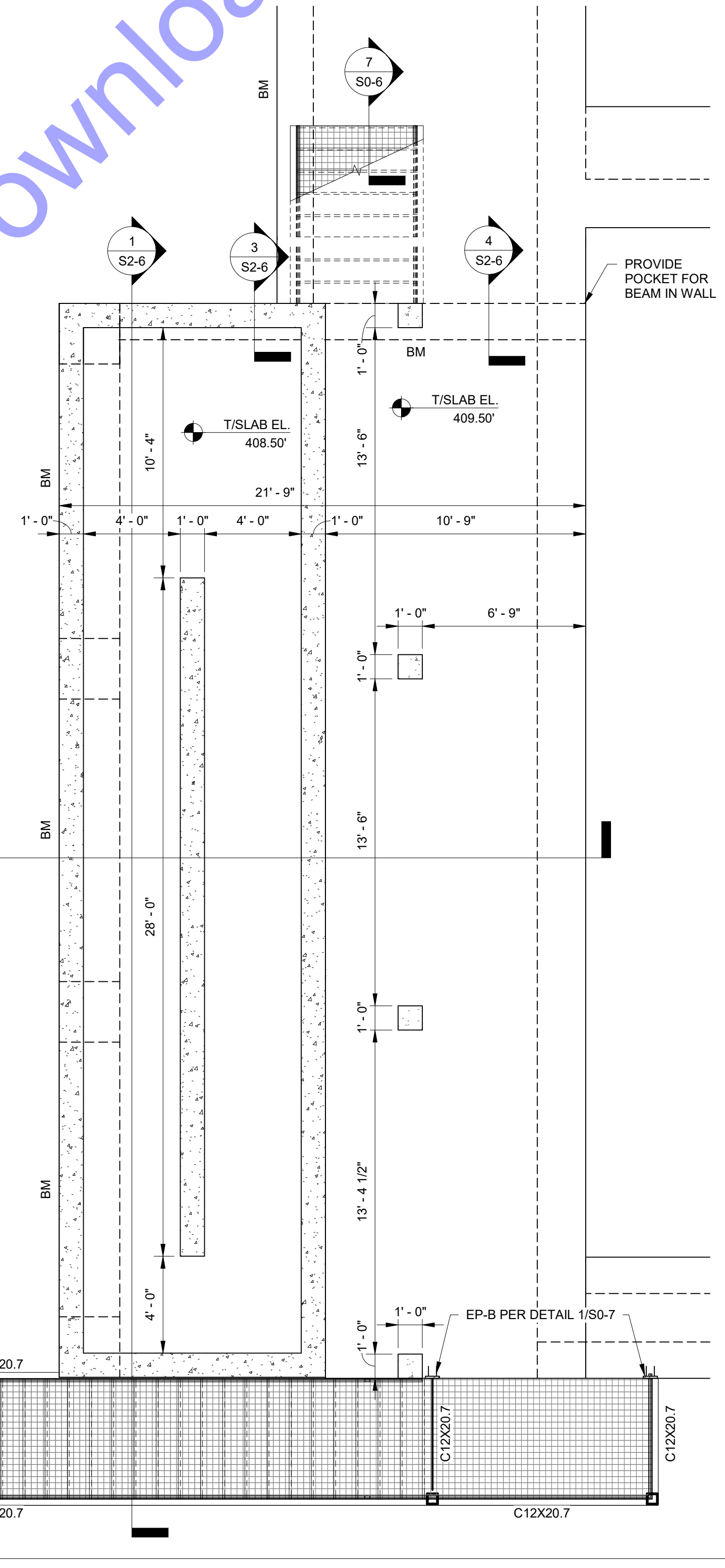
STAIR PLAN NOTES

- INDICATES NOTE REFERENCED IN PLAN
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- B. ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED PRIOR TO FABRICATION, CONSTRUCTION OR ERECTION. THE GENERAL CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DISCREPANCIES.
- C. C. SEE SITE PLAN FOR ALL FINAL GRADE ELEVATIONS.
- D. ALL STEEL SHALL BE GALVANIZED.
- E. SEE PLAN FOR STEEL STAIR STRINGER MIN. SIZE REQUIREMENTS. STEEL FABRICATOR SHALL DETERMINE REQUIRED STAIR STRINGER PROFILE TO ACCOMMODATE PROVIDED STAIR LENGTH DIMENSIONS AND ELEVATION CHANGE.
- F. STAIR TREADS SHALL BE 1-1/2" THICK PULTRUDED FIBER REINFORCED POLYMER UNLESS OTHERWISE NOTED. CONTRACTOR SHALL DETERMINE REQUIRED STAIR STRINGER RISE / RUN LAYOUT. SEE DETAIL 6/S0-6 AND TYPICAL STAIR DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- G. STAIR LANDING GRATING SHALL BE 1-1/2" THICK MOLDED FIBER REINFORCED PLOYER GRATING UNLESS OTHERWISE NOTED. SEE TYPICAL STAIR DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- H. PROVIDE L2X2X1/4 DIAGONAL BRACE AT 5'-0" O.C. MAX ALONG ALL STAIR FLIGHTS, AND AT EACH STAIR LANDING; WELD L2X2X1/4 BRACE MEMBERS TO STRINGER BOTTOM CHORDS.
- I. EP-X DENOTES EMBED PLATE. SEE SCHEDULE ON SHEET S0-7.



2 NEW INFLUENT STRUCTURE - UPPER LEVEL PLAN

S2-5 1/4" = 1'-0"



1 NEW INFLUENT STRUCTURE - LOWER LEVEL PLAN

S2-5 1/4" = 1'-0"

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Signature: _____ Date: _____
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 PE1500002
 Matthew R. Murray
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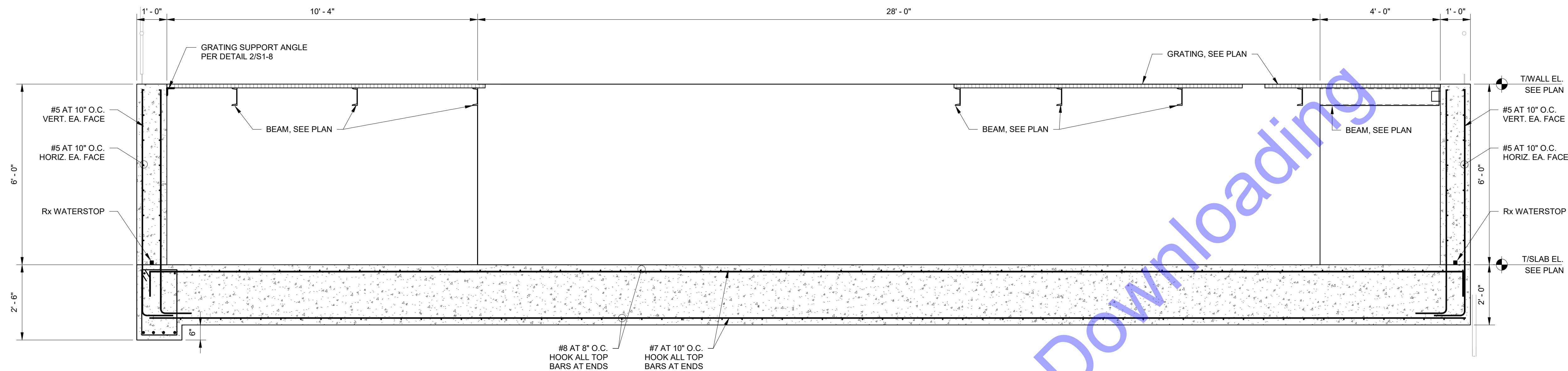
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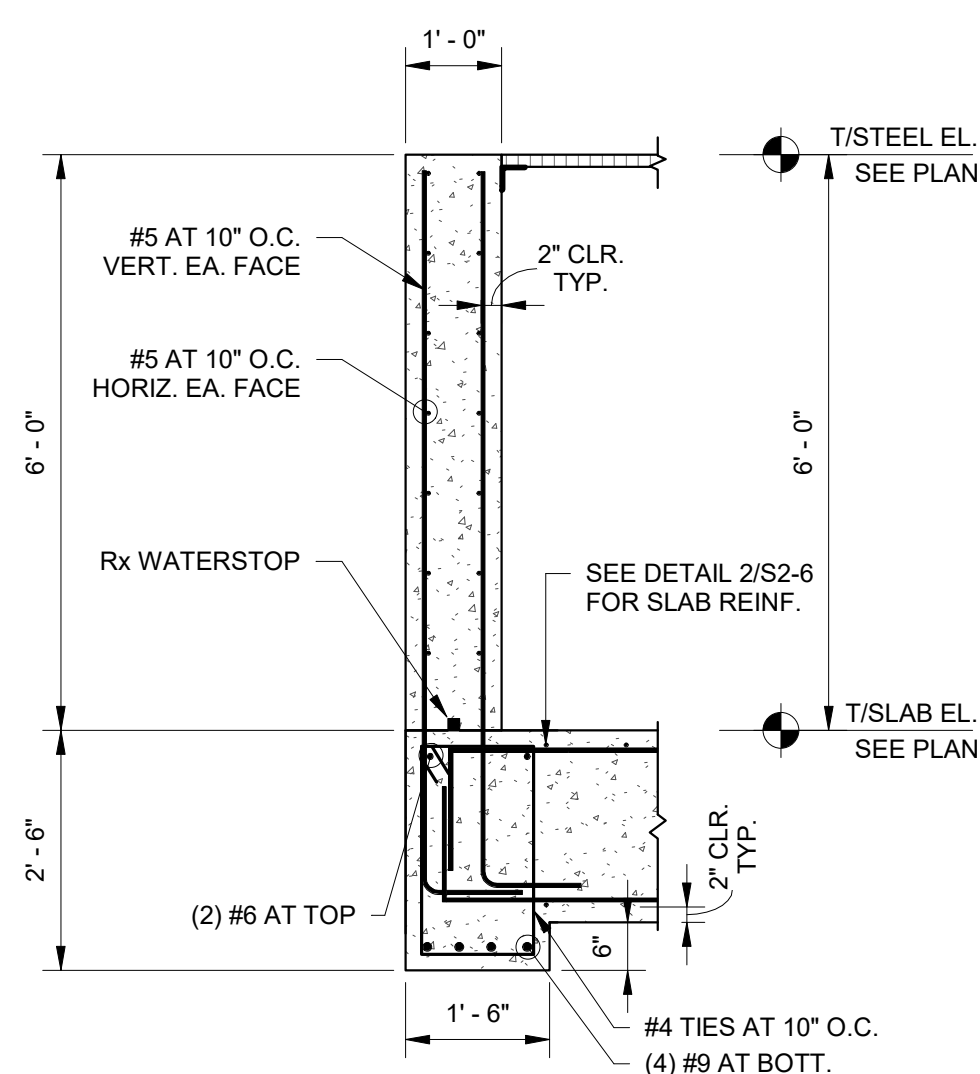
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Issue Date:	Project No:	Scale:
04/10/24	22-182	As indicated

NEW INFLUENT SCREENING STRUCTURE - LOWER AND UPPER LEVEL PLANS

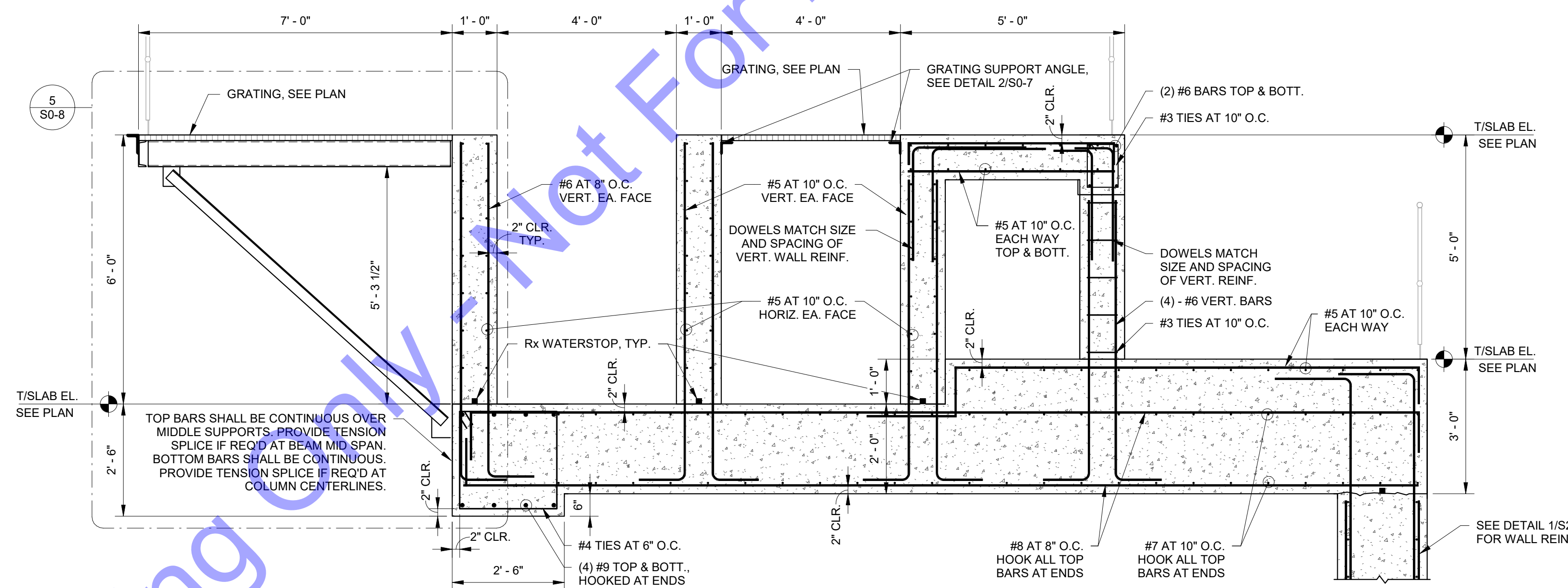
Drawing No:
S2-5
 Sheet: 138 OF 177



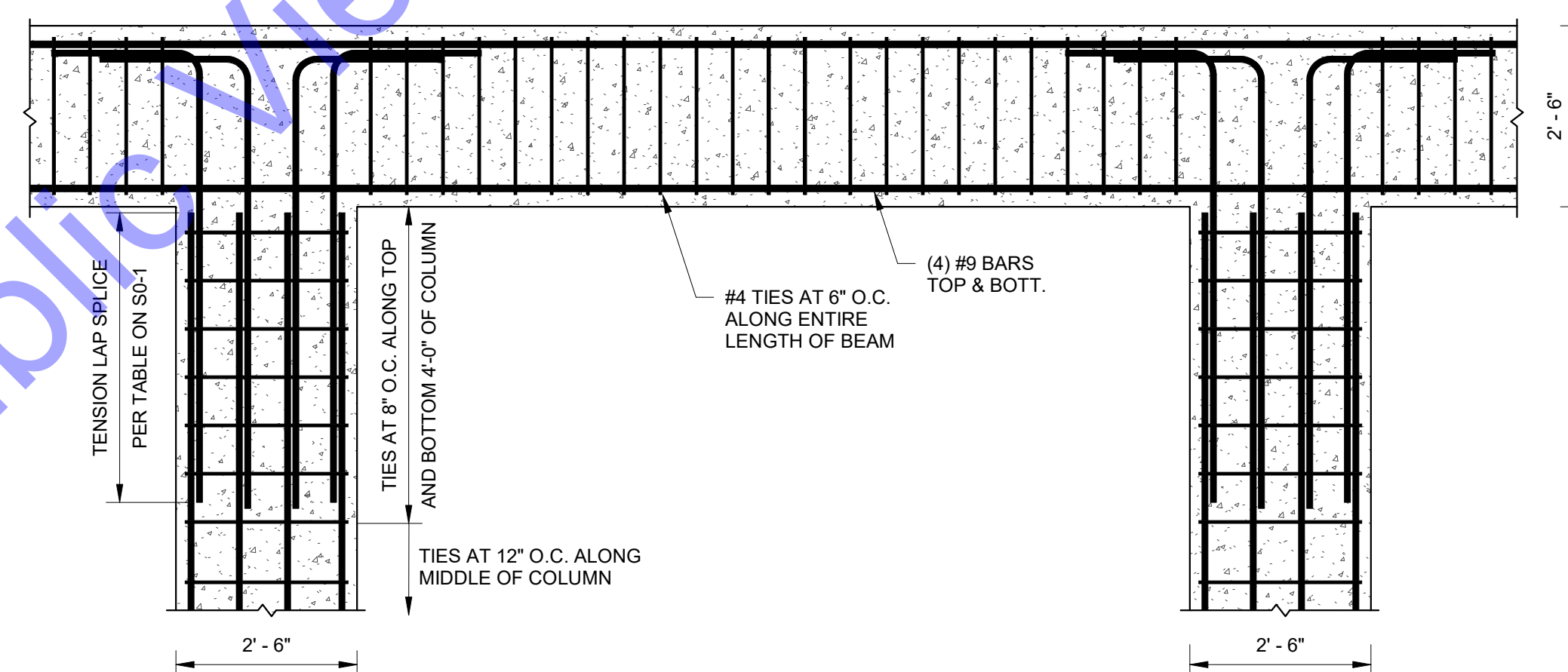
1 SECTION
S2-6 1/2" = 1'-0"



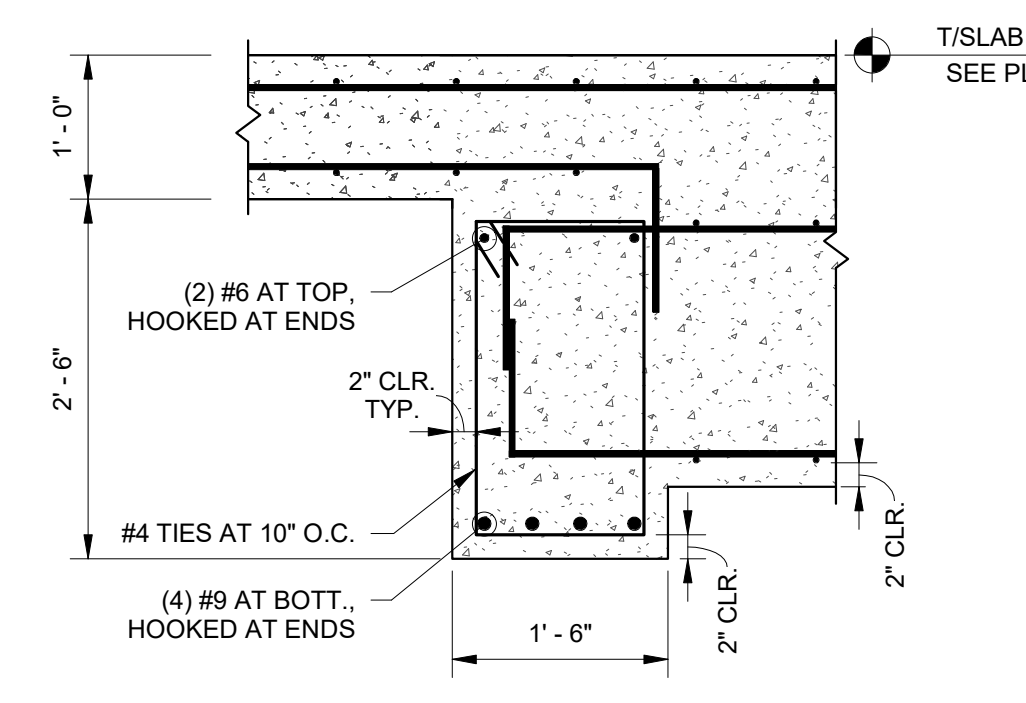
3 SECTION
S2-6 1/2" = 1'-0"



2 SECTION
S2-6 1/2" = 1'-0"



5 CONCRETE COL-BEAM REINF. DETAILING
S2-6 1/2" = 1'-0"



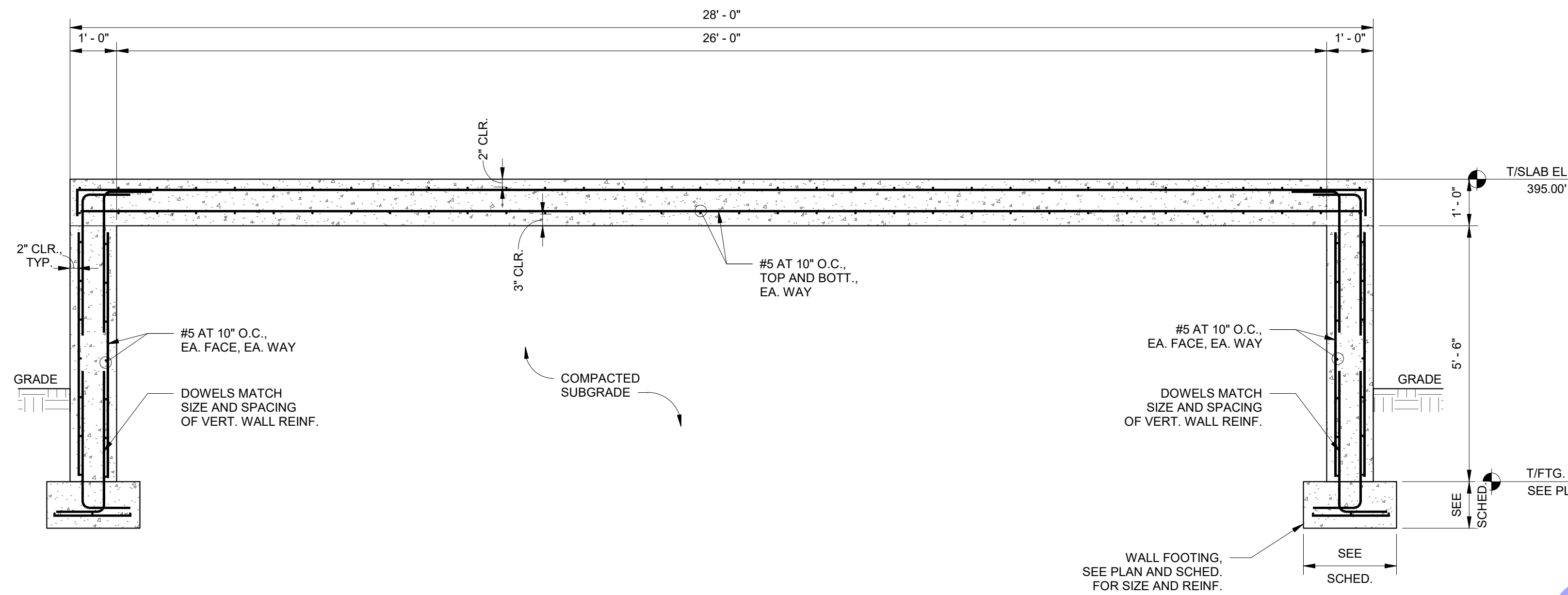
4 SECTION
S2-6 3/4" = 1'-0"

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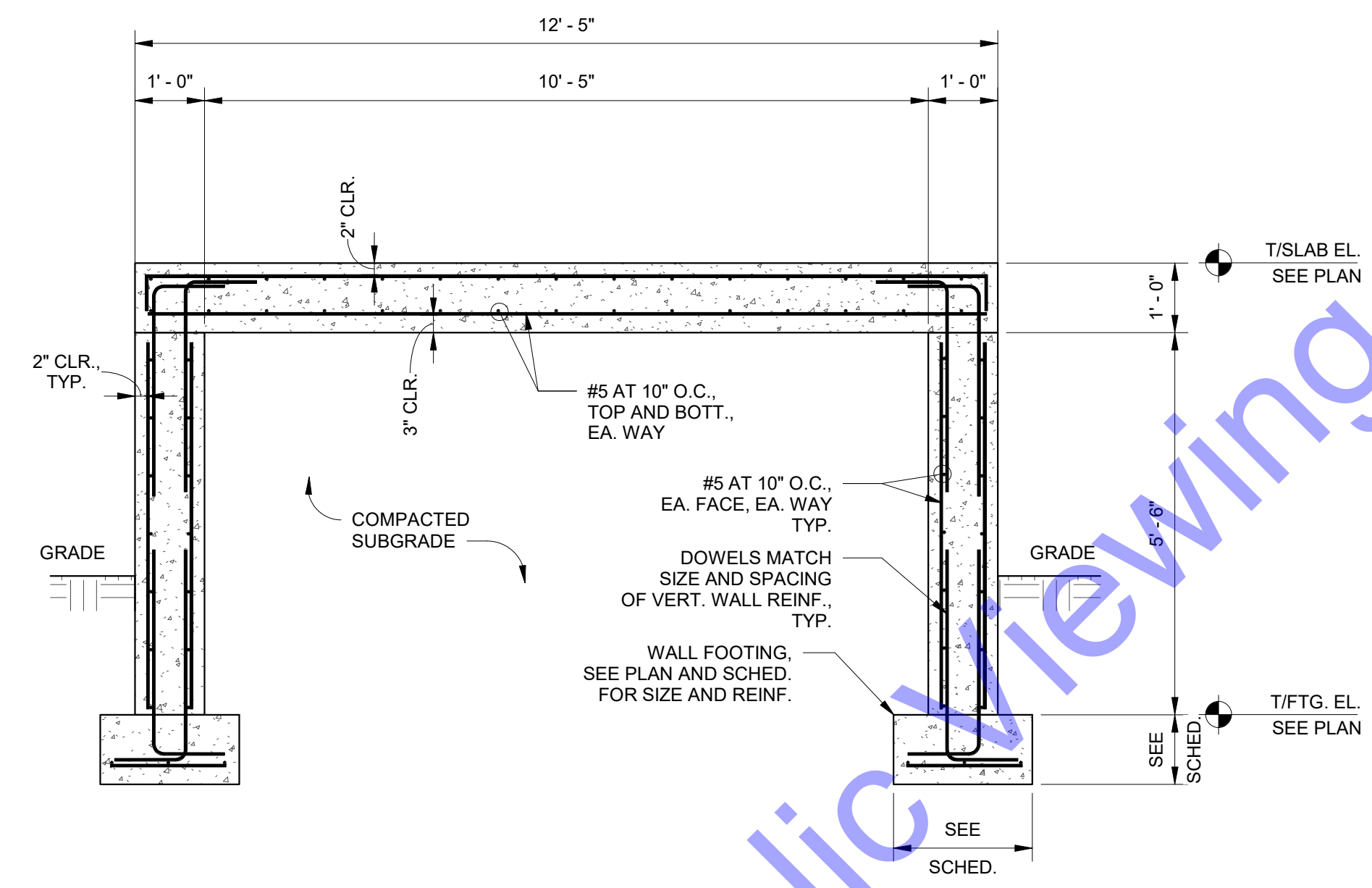
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Issue Date: 04/10/24	Project No: 22-182	Scale: As indicated

NEW INFLUENT SCREENING STRUCTURE - SECTIONS AND DETAILS

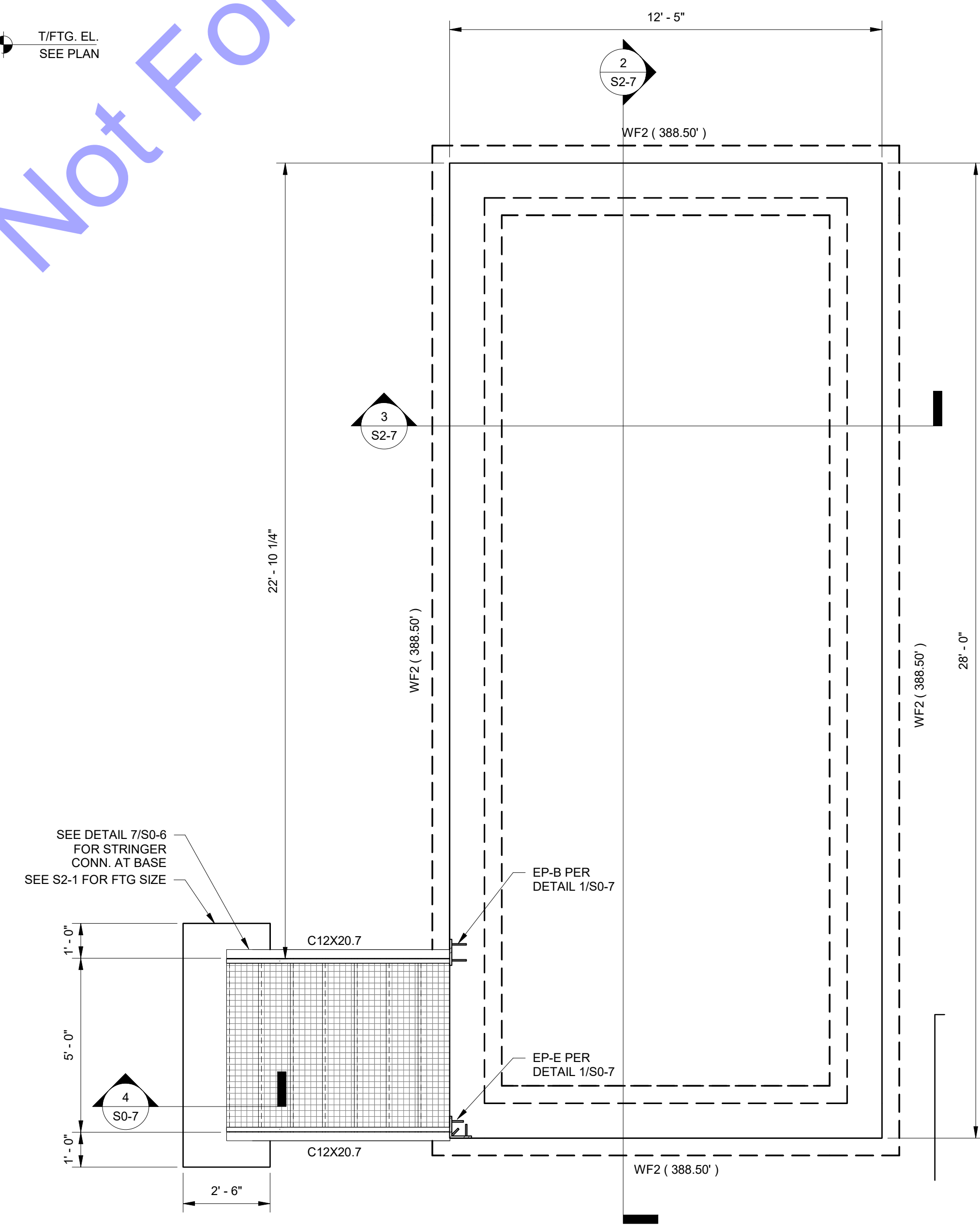
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2 SECTION
S2-7 1/2" = 1'-0"



3 SECTION
S2-7 1/2" = 1'-0"



1 BLOWER PAD FOUNDATION AND SLAB-ON-GRADE PLAN
S2-7 3/8" = 1'-0"

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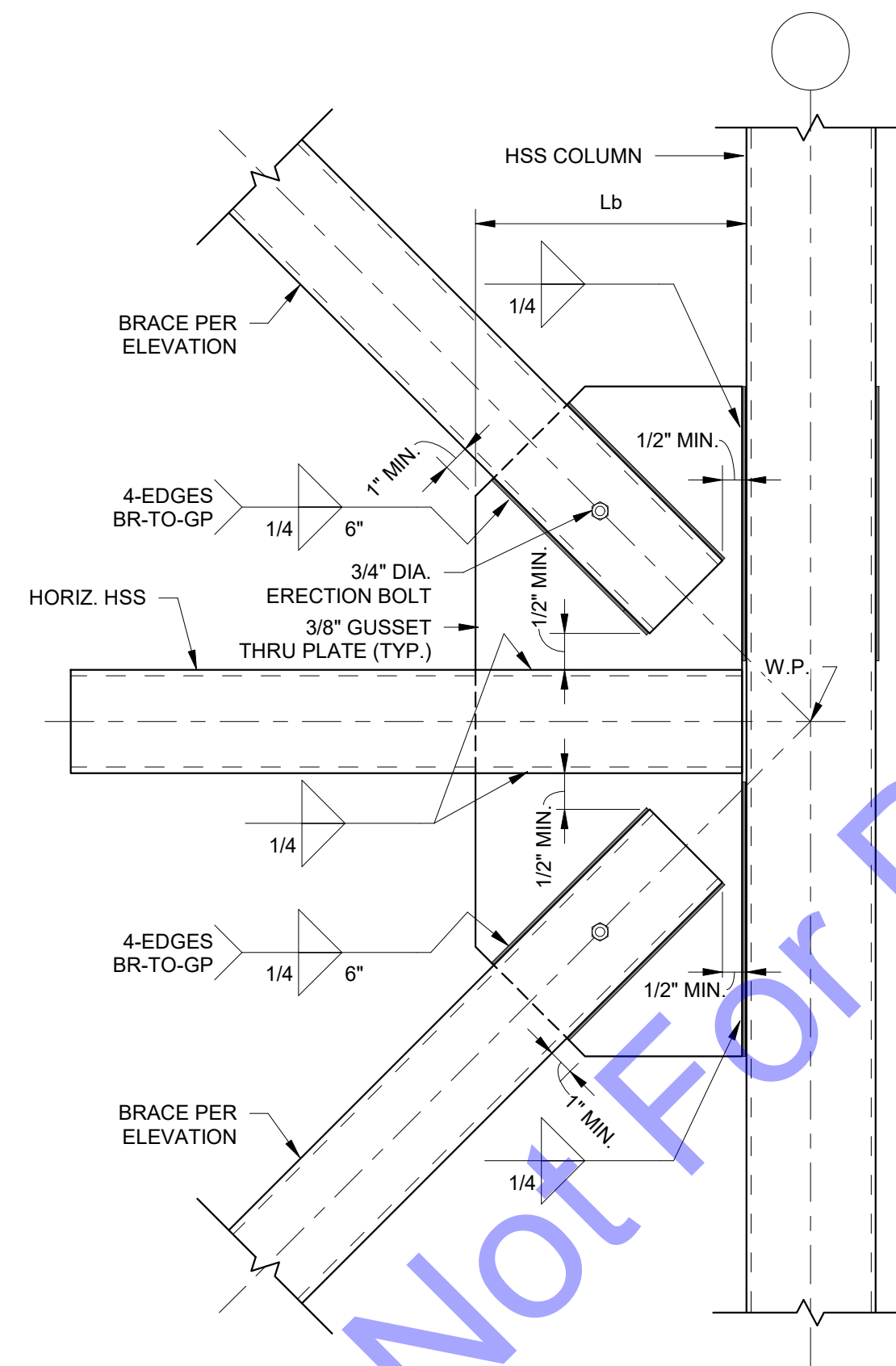
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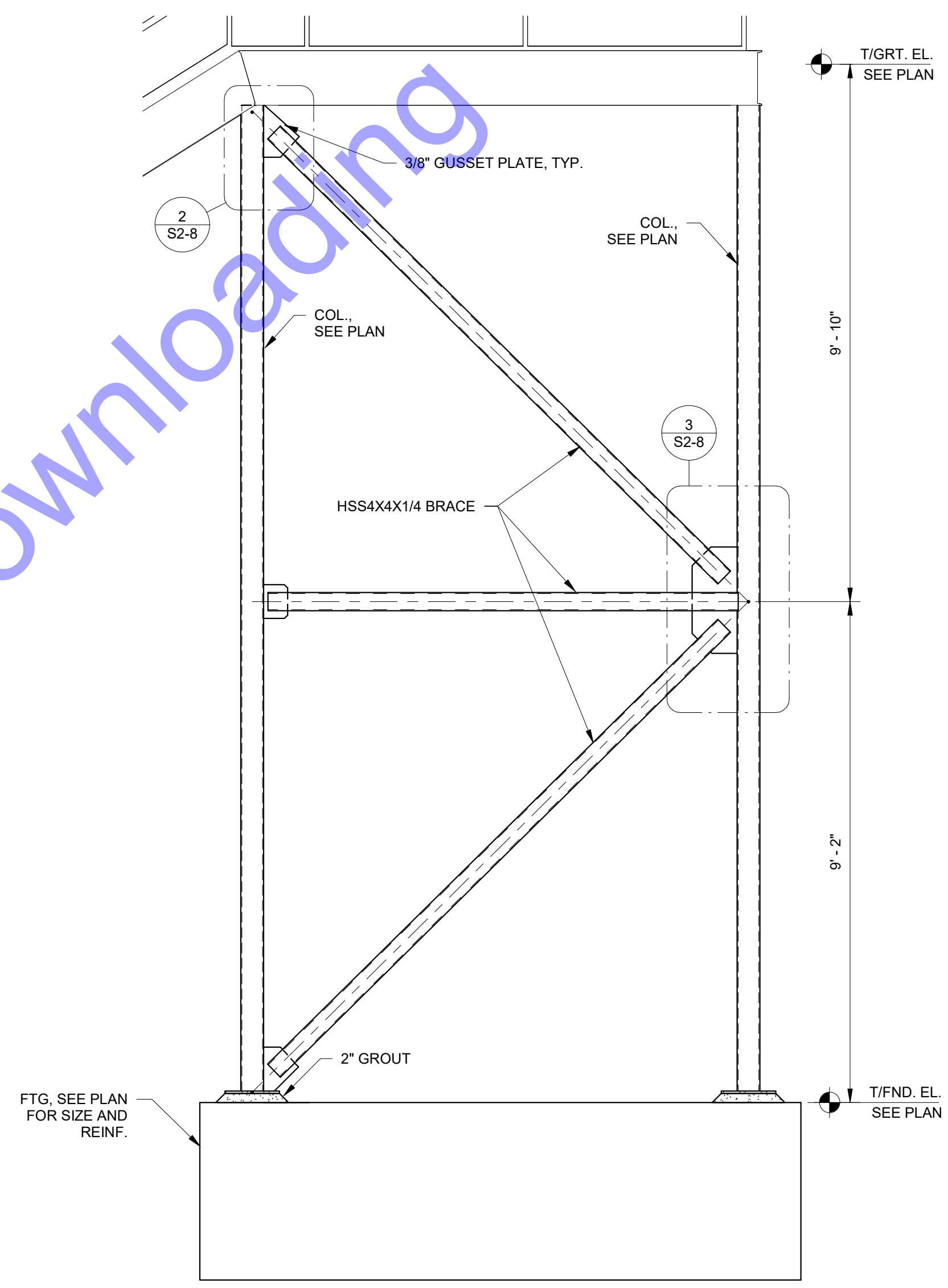
**NEW BLOWER PAD -
FOUNDATION PLAN,
SECTIONS AND DETAILS**

Drawing No:
S2-7
Sheet: 140 OF 177



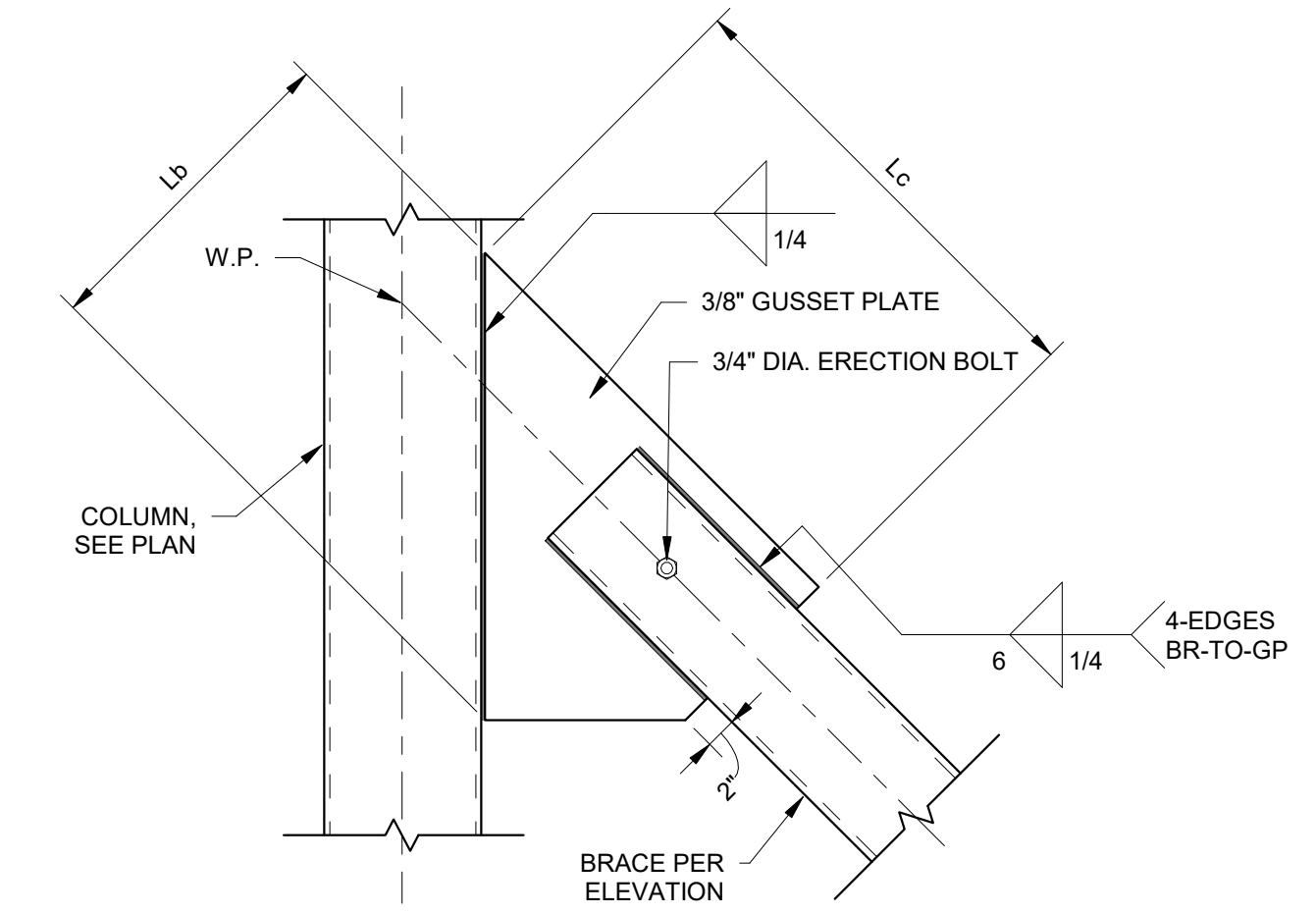
NOTE:
GUSSET PLATE WILL VARY IN SIZE AND SHAPE (Lb AND Lc)
BASED ON BRACE CONFIGURATION AT EACH LOCATION.
FABRICATOR SHALL SIZE GUSSET PLATES TO ACCOMMODATE
MINIMUM DISTANCES AND WELDS AS NOTED.

3 TYP. BRACE DETAIL
S2-8 1" = 1'-0"



FTG. SEE PLAN FOR SIZE AND REINF.

1 SECTION
S2-8 1/2" = 1'-0"



NOTE:
GUSSET PLATE WILL VARY IN SIZE AND SHAPE (Lb AND Lc)
BASED ON BRACE CONFIGURATION AT EACH LOCATION.
FABRICATOR SHALL SIZE GUSSET PLATES TO ACCOMMODATE
MINIMUM DISTANCES AND WELDS AS NOTED.

2 TYP. BRACE DETAIL
S2-8 1" = 1'-0"

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NEW SBR TREATMENT FACILITY - EXTERIOR STAIRS - SECTIONS AND DETAILS

Drawing No:
S2-8
Sheet: 141 OF 177

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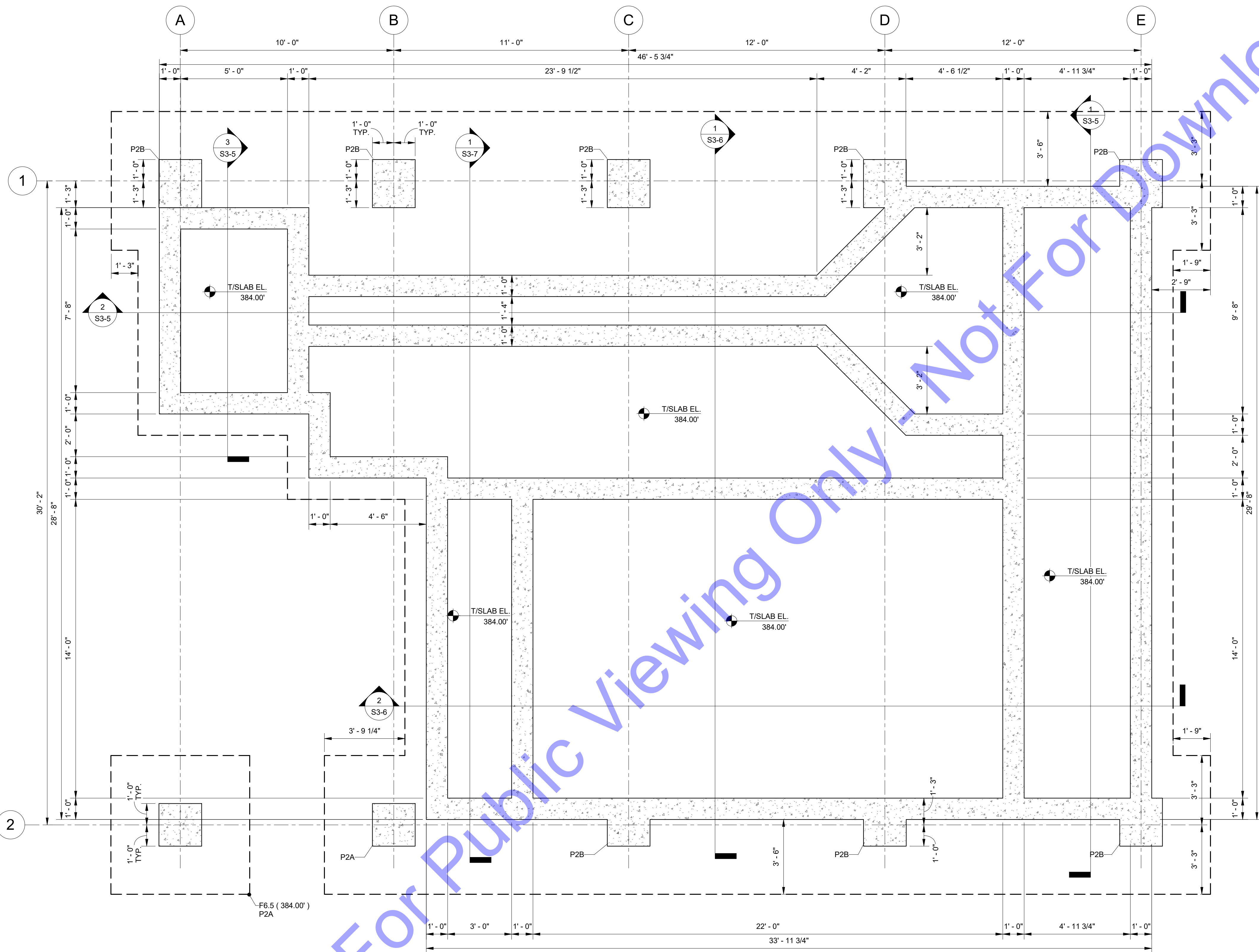
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SPREAD FOOTING SCHEDULE					
MARK	WIDTH	LENGTH	THICK.	LONG. REINF.	TRANS. REINF.
F6.5	6'-6"	6'-6"	1'-6"	8 - #6 TOP & BOTT.	8 - #6 TOP & BOTT.

PEDESTAL SCHEDULE						
MARK	WIDTH	LENGTH	TYPE	V. REINF.	TIES	REFERENCE
P2A	2'-0"	2'-0"	A	8 - #8	3 x #3 AT 3" O.C. TOP. #3 AT 12" O.C. REMAINDER	2/S0-4
P2B	2'-0"	2'-3"	A	8 - #8	3 x #3 AT 3" O.C. TOP. #3 AT 12" O.C. REMAINDER	2/S0-4

FOUNDATION PLAN NOTES

- INDICATES NOTE REFERENCED IN PLAN
- 1. SEE THE S0-SERIES SHEETS FOR GENERAL STRUCTURAL NOTES AND TYPICAL STRUCTURAL DETAILS.
- 2. GENERAL CONTRACTOR TO COORDINATE ALL OPENING, PIPE SLEEVES, EMBEDDED ITEMS, HANDRAILS, GRATING, ETC. WITH THE PROCESS DRAWINGS.
- 3. ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED PRIOR TO FABRICATION, CONSTRUCTION OR ERECTION. THE GENERAL CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DISCREPANCIES.
- 4. SEE SITE PLAN FOR ALL FINAL GRADE ELEVATIONS.
- 5. SEE GEOTECHNICAL REPORT FOR ALL BACKFILLING AND COMPACTION REQUIREMENTS BEHIND WALLS AND UNDER BASE SLABS.
- 6. GENERAL CONTRACTOR SHALL SUBMIT A CONSTRUCTION JOINT (CJ) AND CONTRACTION JOINT (CT) LOCATION PLAN TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO CONCRETE PLACEMENT.
- 7. SEE DETAILS 6/S0-3 AND 7/S0-3 FOR WALL CONSTRUCTION JOINT AND WALL CONTRACTION JOINT REQUIREMENTS.
- 8. MAINTAIN STRUCTURAL SLAB THICKNESSES AT ALL FLOOR SLOPES AND DEPRESSIONS.
- 9. FX (XXX.XX) DENOTES FOOTING MARK AND ELEVATION. SEE SCHEDULE.
- 10. PX DENOTES PEDESTAL MARK, SEE SCHEDULE.
- 11. THE FOUNDATION DESIGNS SHOWN ARE BASED ON AN ALLOWABLE BEARING PRESSURE OF 4,000 PSF. ALL FOUNDATIONS SHALL BEAR ON SOIL IMPROVED BY THE INSTALLATION OF AN AGGREGATE PIER SYSTEM DESIGNED AND INSTALLED BY A SPECIALTY FOUNDATION CONTRACTOR.



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Professional Engineer
 STATE OF INDIANA
 PE11500002
 Signature: *Mark Murray* Date: 04/10/2024

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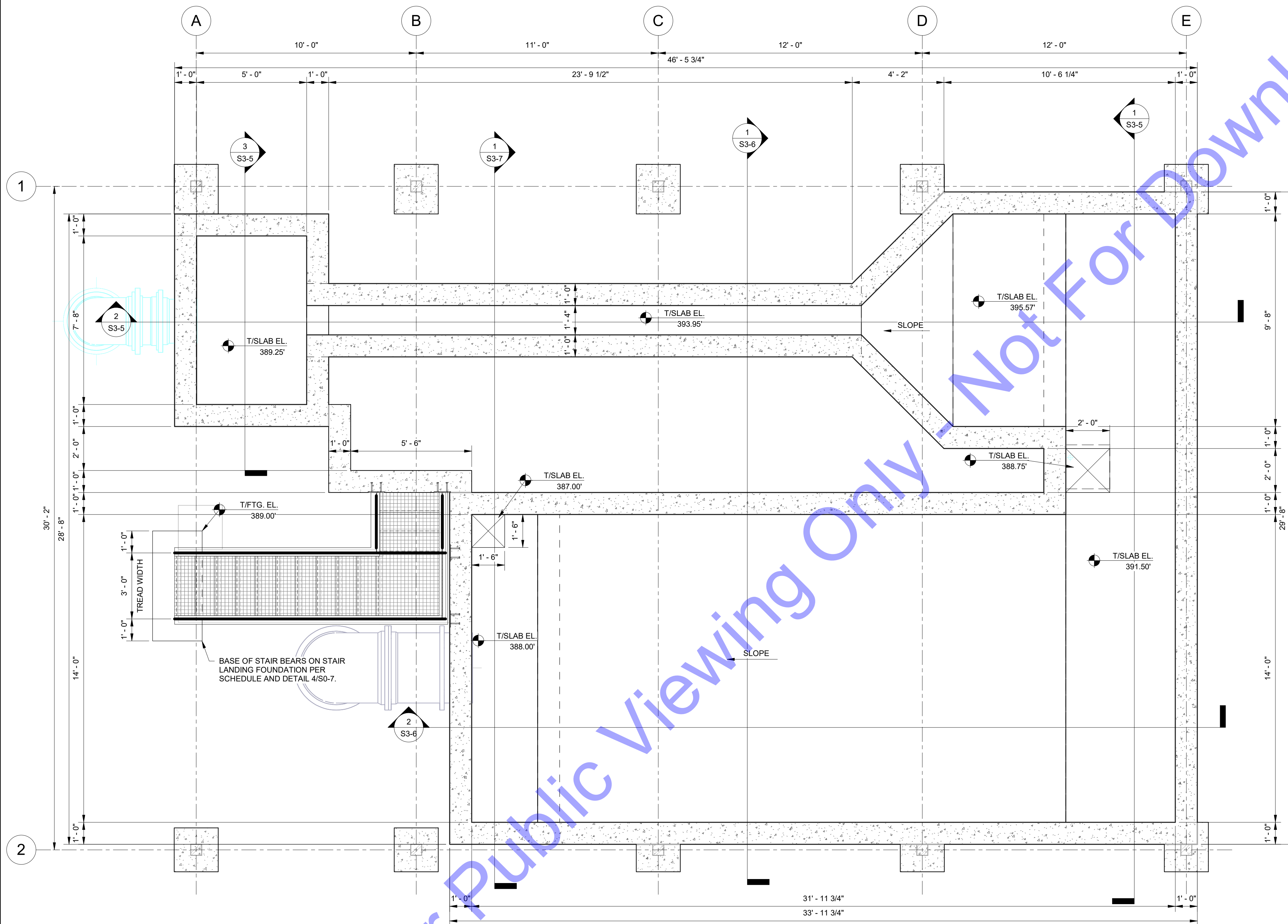
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NEW UV AND CASCADE AERATION -
 FOUNDATION PLAN

Drawing No:
S3-1
 Sheet: 142 OF 177

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UPPER LEVEL PLAN NOTES

- INDICATES NOTE REFERENCED IN PLAN
- 1. SEE THE S0-SERIES SHEETS FOR GENERAL STRUCTURAL NOTES AND TYPICAL STRUCTURAL DETAILS.
- 2. GENERAL CONTRACTOR TO COORDINATE ALL OPENING, PIPE SLEEVES, EMBEDDED ITEMS, HANDRAILS, GRATING, ETC. WITH THE PROCESS DRAWINGS.
- 3. ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED PRIOR TO FABRICATION, CONSTRUCTION OR ERECTION. THE GENERAL CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DISCREPANCIES.
- 4. SEE SITE PLAN FOR ALL FINAL GRADE ELEVATIONS.
- 5. SEE GEOTECHNICAL REPORT FOR ALL BACKFILLING AND COMPACTION REQUIREMENTS BEHIND WALLS AND UNDER BASE SLABS.
- 6. GENERAL CONTRACTOR SHALL SUBMIT A CONSTRUCTION JOINT (CJ) AND CONTRACTION JOINT (CT) LOCATION PLAN TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO CONCRETE PLACEMENT.
- 7. SEE DETAILS 6/S0-3 AND 7/S0-3 FOR WALL CONSTRUCTION JOINT AND WALL CONTRACTION JOINT REQUIREMENTS.
- 8. MAINTAIN STRUCTURAL SLAB THICKNESSES AT ALL FLOOR SLOPES AND DEPRESSIONS.

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NEW UV AND CASCADE AERATION - INTERMEDIATE LEVEL PLAN

Drawing No:
S3-2
 Sheet: 143 OF 177

1 NEW UV AND CASCADE AERATION - UPPER LEVEL PLAN
 S3-2 3/8" = 1'-0"

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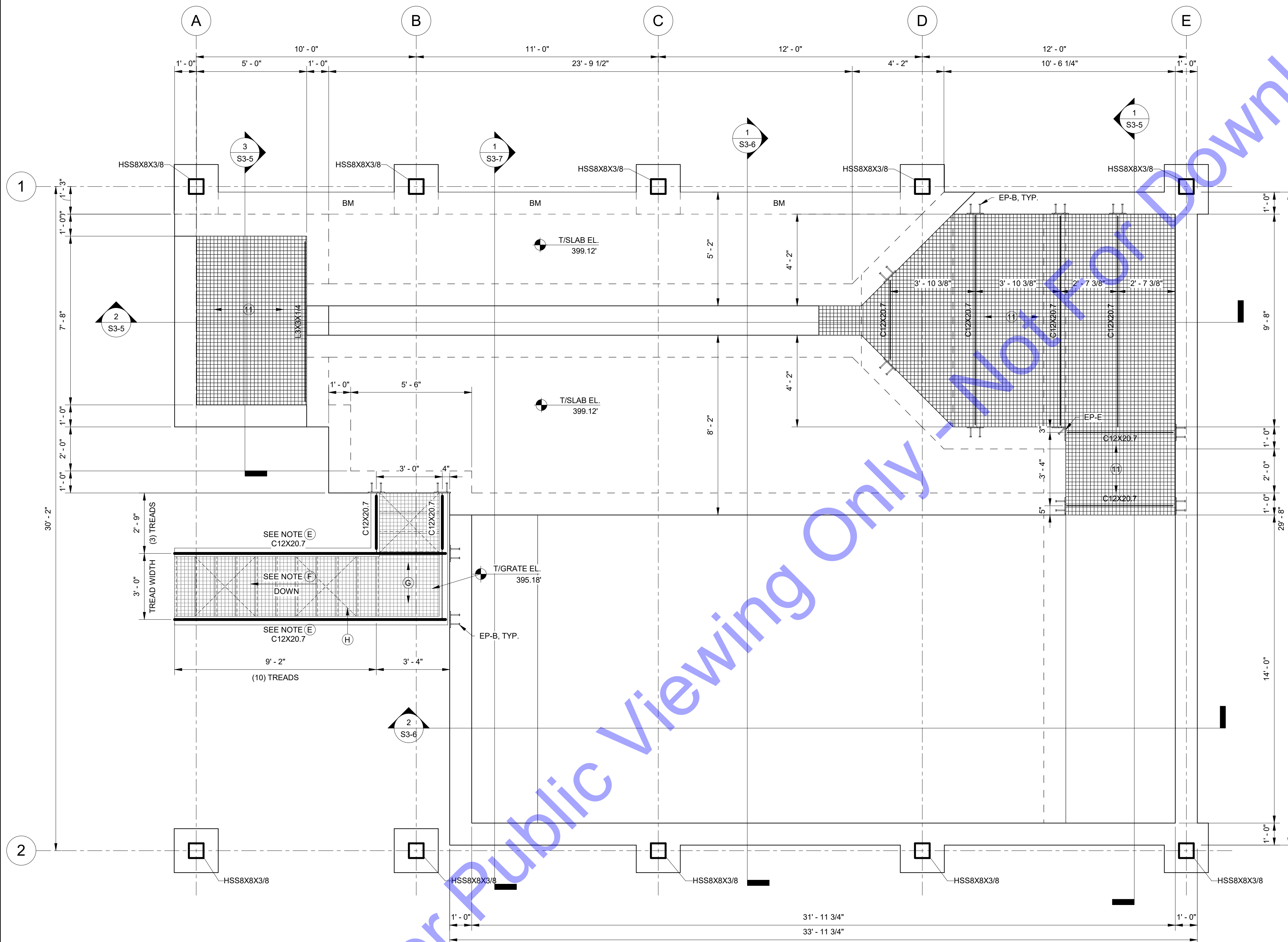
COLUMN SCHEDULE			
COLUMN SIZE	BASE PLATE	ANCHOR BOLTS	REFERENCE
HSS8x8	PL 16" x 16" x 1"	4 - 1" DIA.	3/S0-4 & 8/S0-4

UPPER LEVEL PLAN NOTES

- INDICATES NOTE REFERENCED IN PLAN
- 1. SEE THE S0-SERIES SHEETS FOR GENERAL STRUCTURAL NOTES AND TYPICAL STRUCTURAL DETAILS.
- 2. GENERAL CONTRACTOR TO COORDINATE ALL OPENING, PIPE SLEEVES, EMBEDDED ITEMS, HANDRAILS, GRATING, ETC. WITH THE PROCESS DRAWINGS.
- 3. ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED PRIOR TO FABRICATION, CONSTRUCTION OR ERECTION. THE GENERAL CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DISCREPANCIES.
- 4. SEE SITE PLAN FOR ALL FINAL GRADE ELEVATIONS.
- 5. SEE GEOTECHNICAL REPORT FOR ALL BACKFILLING AND COMPACTION REQUIREMENTS BEHIND WALLS AND UNDER BASE SLABS.
- 6. GENERAL CONTRACTOR SHALL SUBMIT A CONSTRUCTION JOINT (CJ) AND CONTRACTION JOINT (CT) LOCATION PLAN TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO CONCRETE PLACEMENT.
- 7. SEE DETAILS 6/S0-3 AND 7/S0-3 FOR WALL CONSTRUCTION JOINT AND WALL CONTRACTION JOINT REQUIREMENTS.
- 8. MAINTAIN STRUCTURAL SLAB THICKNESSES AT ALL FLOOR SLOPES AND DEPRESSIONS.
- 9. T/STEEL ELEVATION = 398.95' (-B/2" THICK GRATING)
- 10. ALL STEEL SHALL BE HOT DIP GALVANIZED.
- ① 2" GRATING, UNLESS NOTED OTHERWISE. SEE SPECIFICATION SECTIONS 'WM 19 - MISCELLANEOUS METALS AND ALUMINUM' AND 'WM 20 - FIBERGLASS MATERIALS' FOR ADDITIONAL INFORMATION.
- 12. EP-X DENOTES EMBED PLATE. SEE SCHEDULE ON SHEET S0-7.

STAIR PLAN NOTES

- INDICATES NOTE REFERENCED IN PLAN
- A. SEE THE S0-SERIES SHEETS FOR GENERAL STRUCTURAL NOTES AND TYPICAL STRUCTURAL DETAILS.
- B. ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED PRIOR TO FABRICATION, CONSTRUCTION OR ERECTION. THE GENERAL CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DISCREPANCIES.
- C. SEE SITE PLAN FOR ALL FINAL GRADE ELEVATIONS.
- D. ALL STEEL SHALL BE GALVANIZED.
- E. SEE PLAN FOR STEEL STAIR STRINGER MIN. SIZE REQUIREMENTS. STEEL FABRICATOR SHALL DETERMINE REQUIRED STAIR STRINGER PROFILE TO ACCOMMODATE PROVIDED STAIR LENGTH DIMENSIONS AND ELEVATION CHANGE.
- F. STAIR TREADS SHALL BE 1-1/2" THICK PULTRUDED FIBER REINFORCED POLYMER UNLESS OTHERWISE NOTED. CONTRACTOR SHALL DETERMINE REQUIRED STAIR STRINGER RISE / RUN LAYOUT. SEE DETAIL 6/S0-6 AND TYPICAL STAIR DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- G. STAIR LANDING GRATING SHALL BE 1-1/2" THICK MOLDED FIBER REINFORCED POLYMER GRATING UNLESS OTHERWISE NOTED. SEE TYPICAL STAIR DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- H. PROVIDE L2X2X1/4 DIAGONAL BRACE AT 5'-0" O.C. MAX ALONG ALL STAIR FLIGHTS AND AT EACH STAIR LANDING; WELD L2X2X1/4 BRACE MEMBERS TO STRINGER BOTTOM FLANGES.
- I. EP-X DENOTES EMBED PLATE. SEE SCHEDULE ON SHEET S0-7.



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Professional Engineer Seal for **WALTER R. MURRAY**, PE11500002, State of Indiana. Signature: *Walter Murray*, Date: 04/10/2024.

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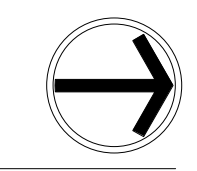
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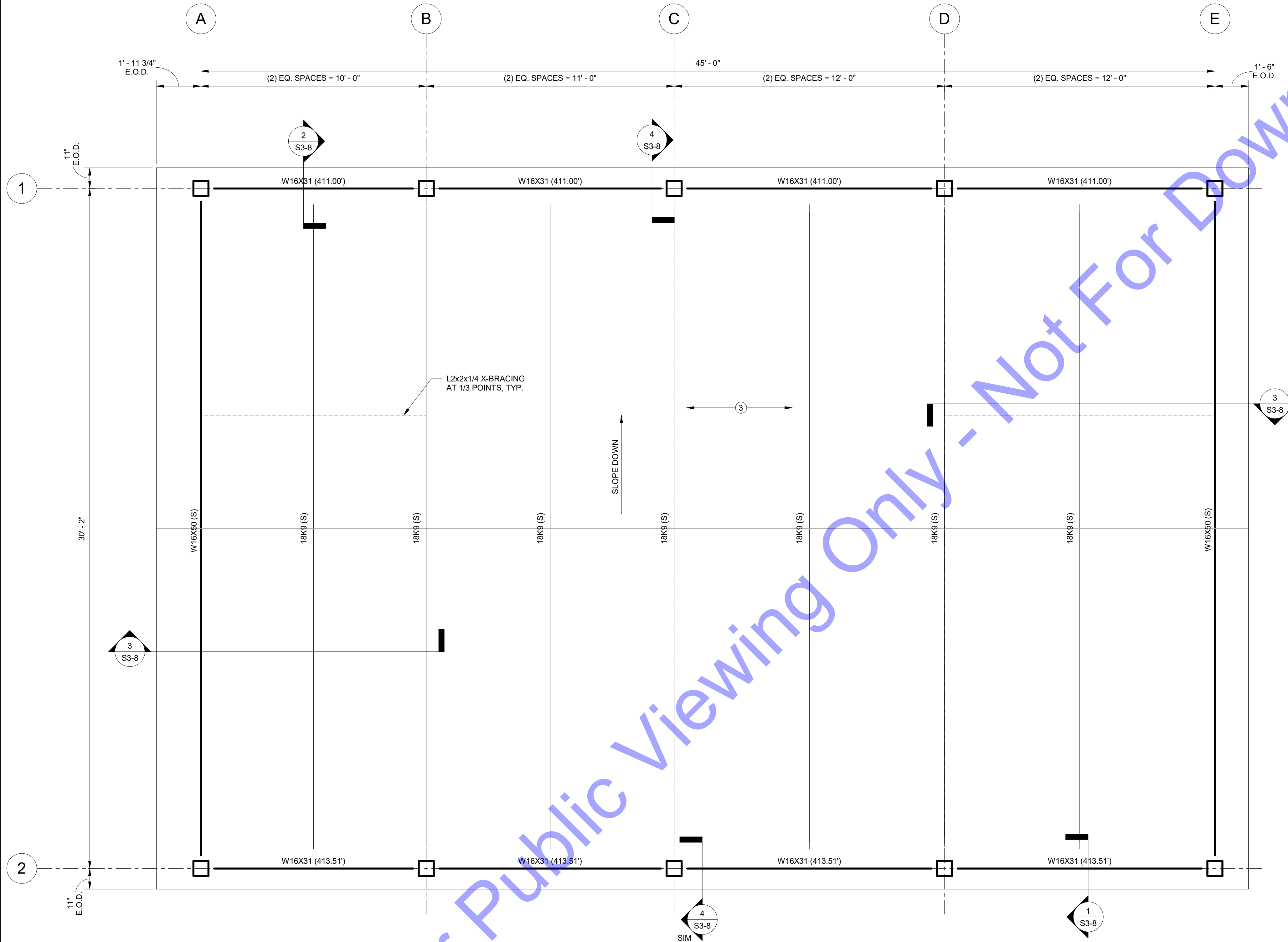
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NEW UV AND CASCADE AERATION - UPPER LEVEL PLAN

Drawing No:
S3-3
 Sheet: 144 OF 177





CANOPY FRAMING PLAN NOTES

- INDICATES NOTE REFERENCED IN PLAN
- 1. SEE THE S0-SERIES SHEETS FOR GENERAL STRUCTURAL NOTES AND TYPICAL STRUCTURAL DETAILS.
- 2. GENERAL CONTRACTOR TO COORDINATE ALL GUTTERS, SNOW GUARDS, AND ROOF FINISHES WITH THE PROCESS DRAWINGS.
- ③ ROOF DECK SHALL CONSIST OF 1 1/2", 22 GA. WIDE RIB, GALVANIZED STEEL ROOF DECK (VULCRAFT DECK TYPE 1.9822 OR APPROVED EQUIVALENT). FASTEN DECK TO SUPPORTS PER GENERAL STRUCTURAL NOTES.
- 4. T/STEEL ELEVATION = SEE PLAN
- 5. ALL JOISTS SHALL HAVE 5" DEEP SHOES, UNLESS NOTED OTHERWISE.
- 6. ROOF DECK ATTACHMENT TO ALL MEMBERS THAT IT BEARS ON MUST BE CAPABLE OF RESISTING A NET UPLIFT FORCE = 60 PSF (ASD).
- 7. ROOF JOISTS, ATTACHMENT, AND BRIDGING MUST BE CAPABLE OF RESISTING A NET UPLIFT FORCE = 30 PSF (ASD).
- 8. HORIZONTAL BRIDGING AND DIAGONAL BRIDGING FOR STEEL JOISTS SHALL BE DESIGNED AS REQUIRED BY THE SJI SPECIFICATIONS AND THE OSHA REGULATIONS. BRIDGING MEMBERS SHALL BE CONNECTED TO THE JOIST CHORDS BY WELDING OR OTHER MECHANICAL MEANS. THE BRIDGING AND ITS CONNECTIONS MUST BE CAPABLE OF TRANSFERRING THE FORCES AS REQUIRED BY THE SJI. THE ENDS OF BRIDGING LINES TERMINATING AT STEEL BEAMS SHALL BE SECURELY ANCHORED THERETO AT TOP AND BOTTOM CHORDS.
- 9. ALL STRUCTURAL STEEL SHALL BE HOT DIPPED GALVANIZED.

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Signature: _____ Date: _____
 REGISTERED PROFESSIONAL ENGINEER
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 PE11500002
 Matthew R. Murala
 04/10/2024

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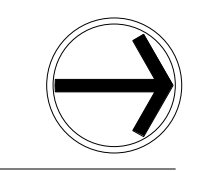
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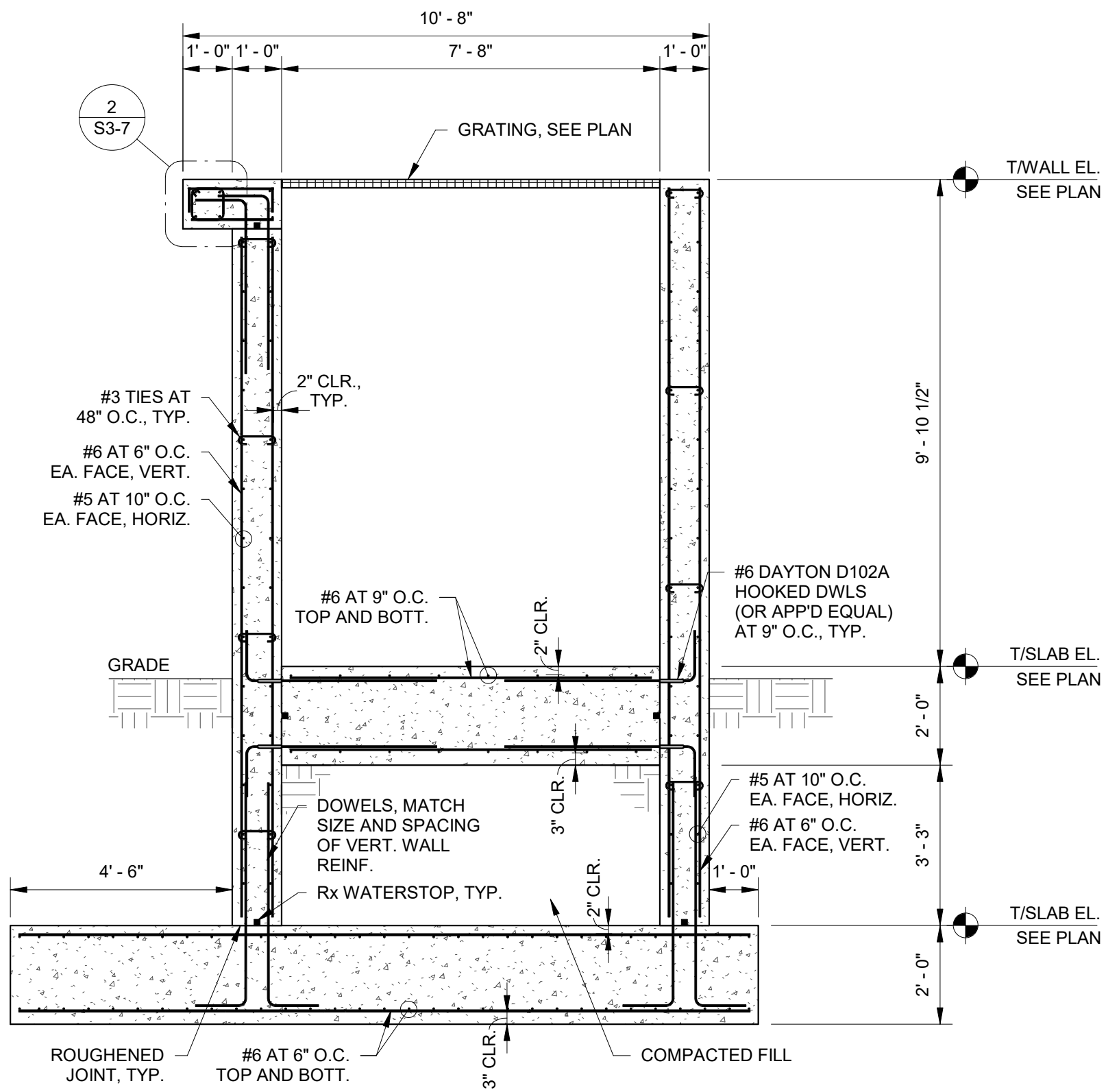
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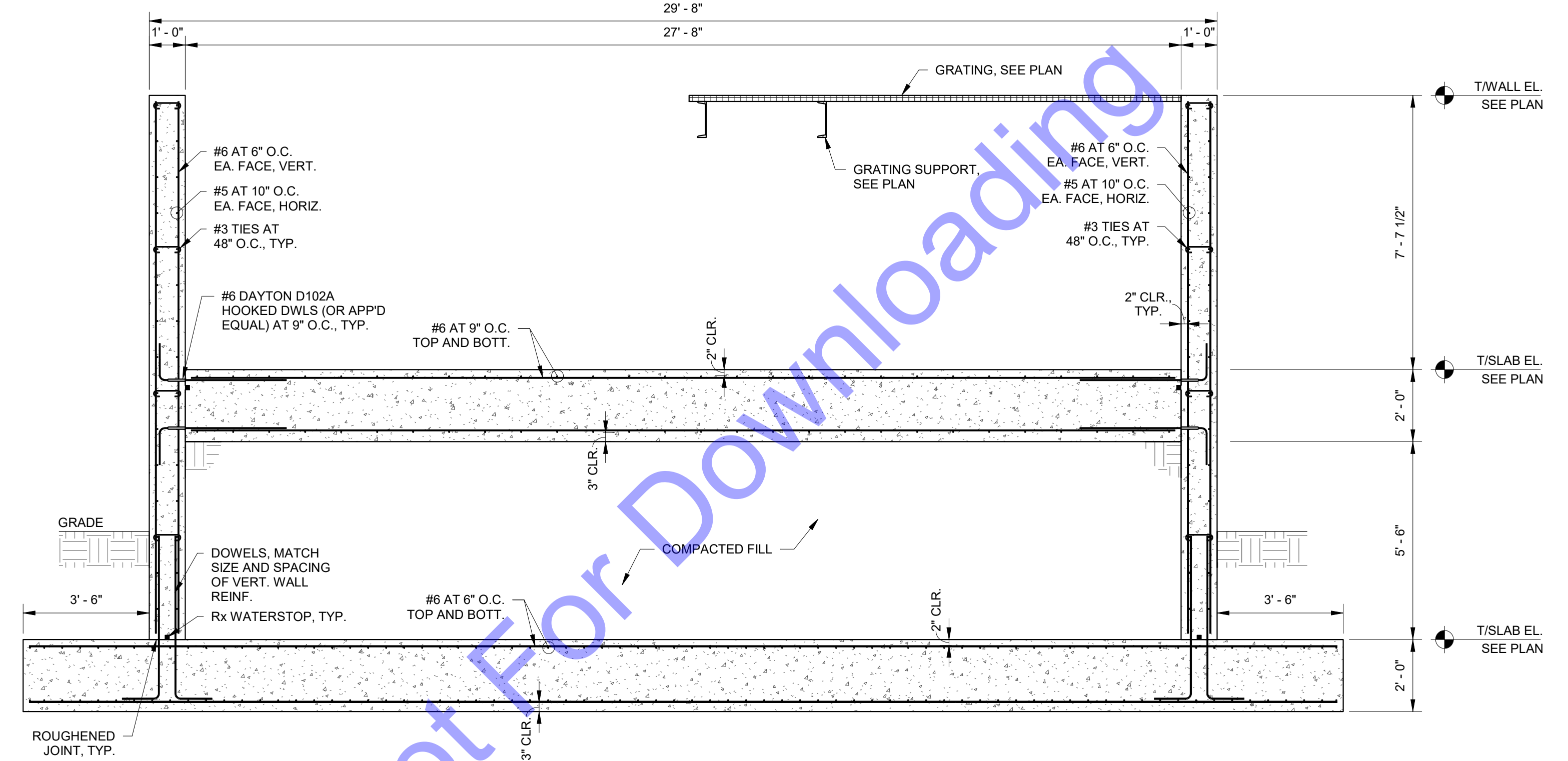
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S3-4
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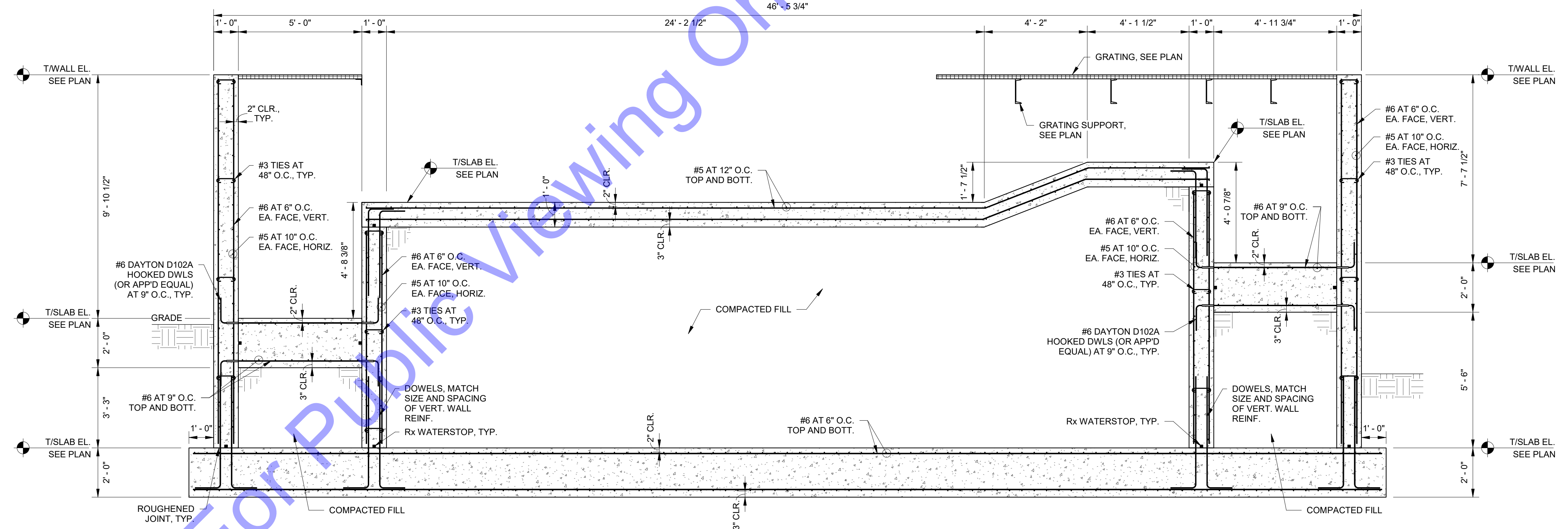
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3 SECTION
S3-5 3/8" = 1'-0"



1 SECTION
S3-5 3/8" = 1'-0"



2 SECTION
S3-5 3/8" = 1'-0"

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PE11500002
Matthew R. Murray
04/10/2024
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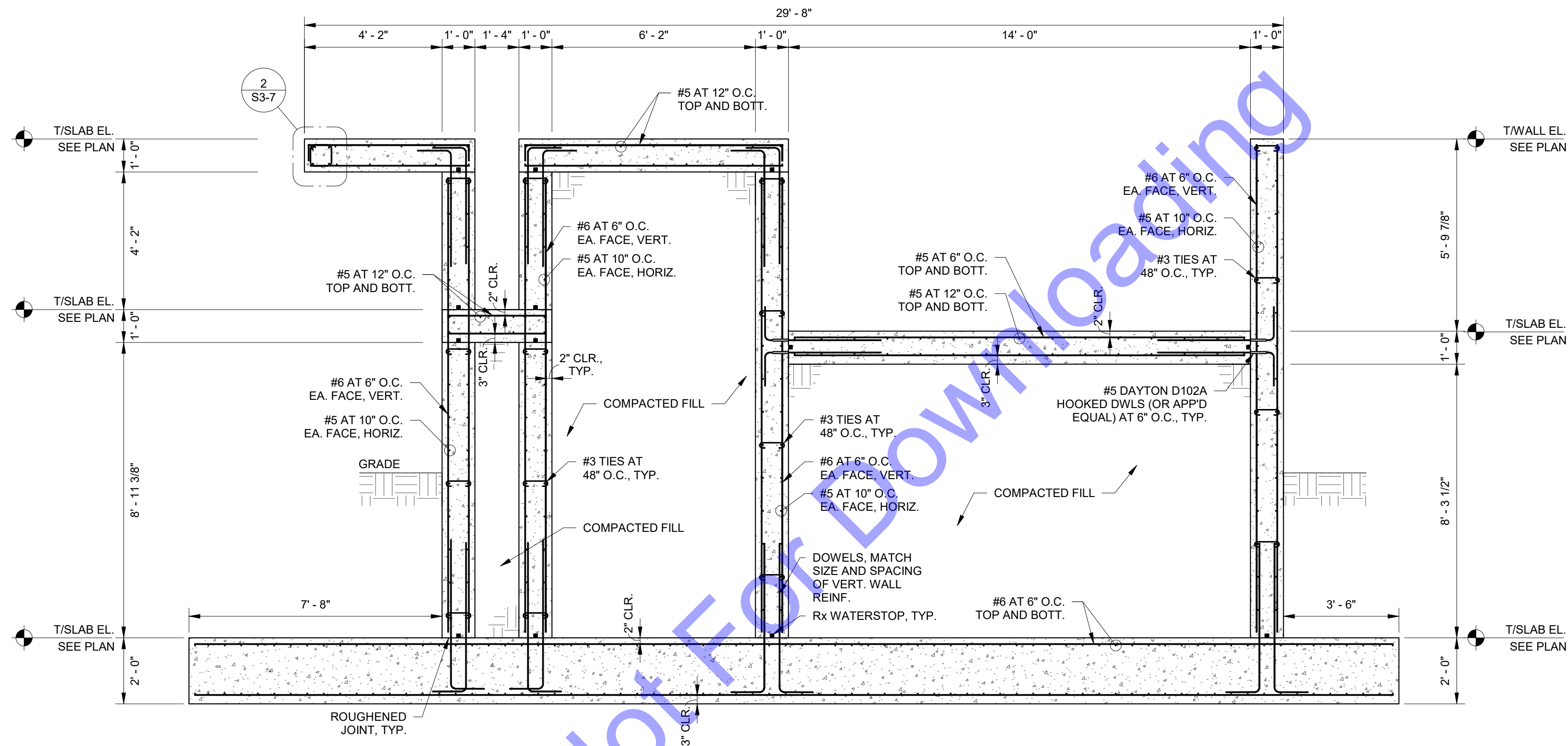
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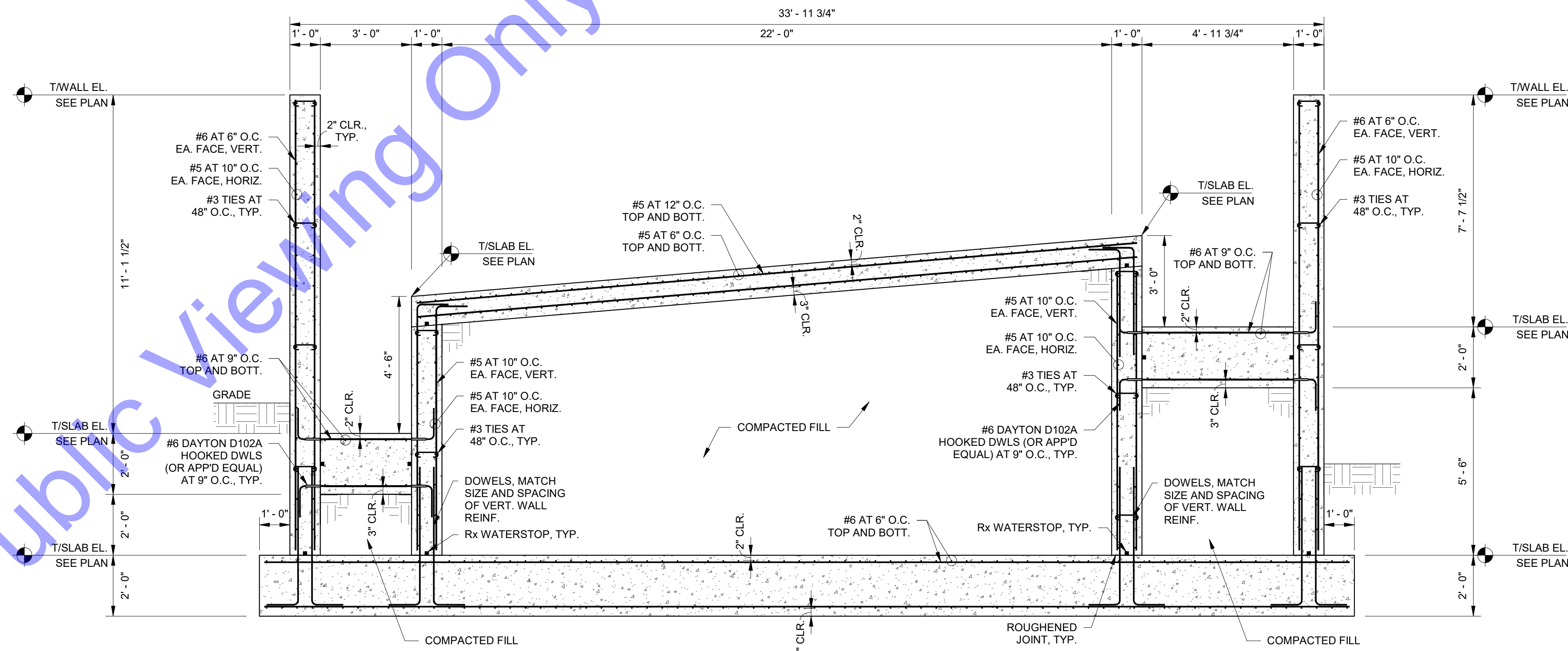
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NEW UV AND CASCADE AERATION - SECTIONS AND DETAILS

Drawing No:
S3-5
Sheet: 146 OF 177



1 SECTION
S3-6 3/8" = 1'-0"



2 SECTION
S3-6 3/8" = 1'-0"

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SOUTH BEND, IN

Signature: *Matthew R. Murray* Date: 04/10/2024
REGISTERED PROFESSIONAL ENGINEER
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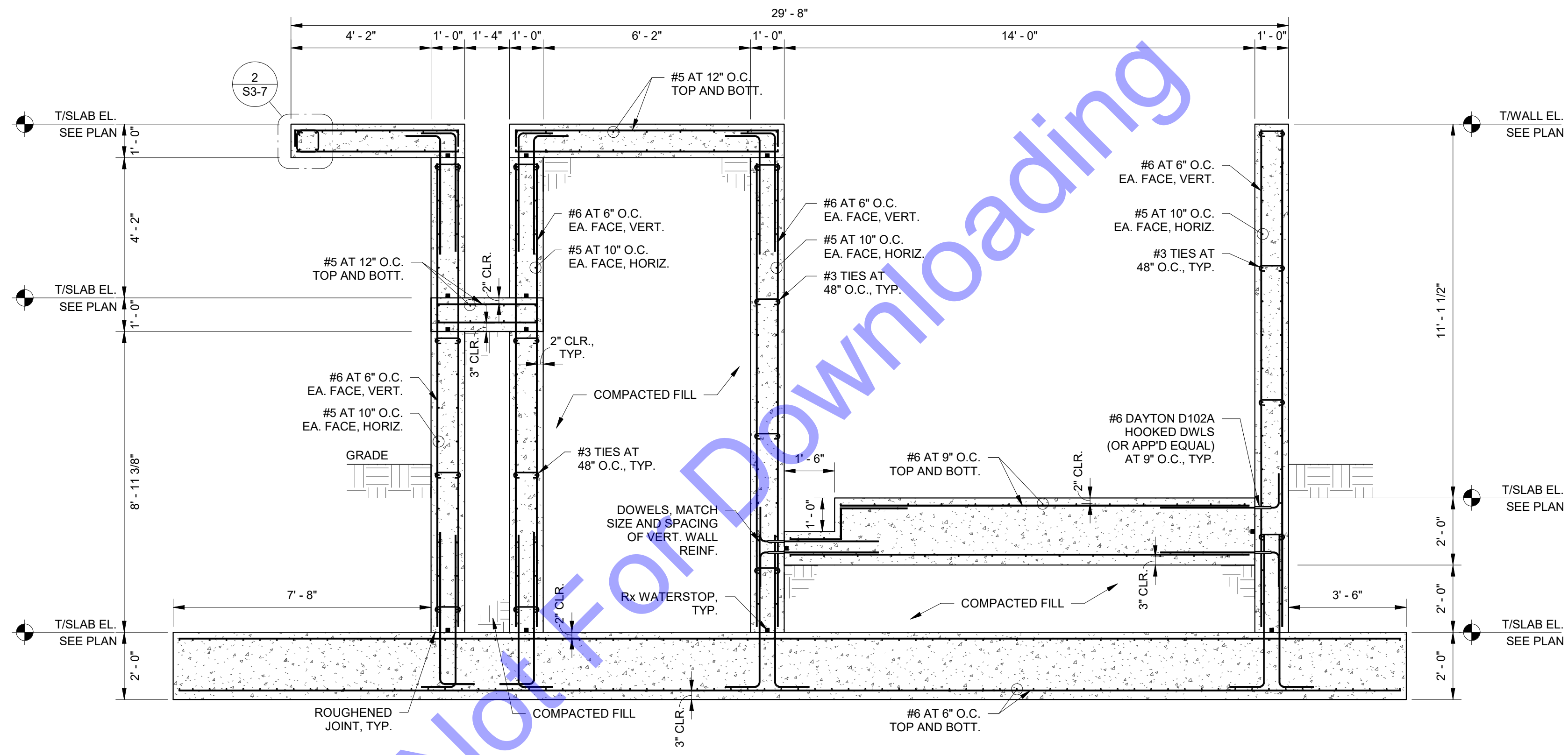
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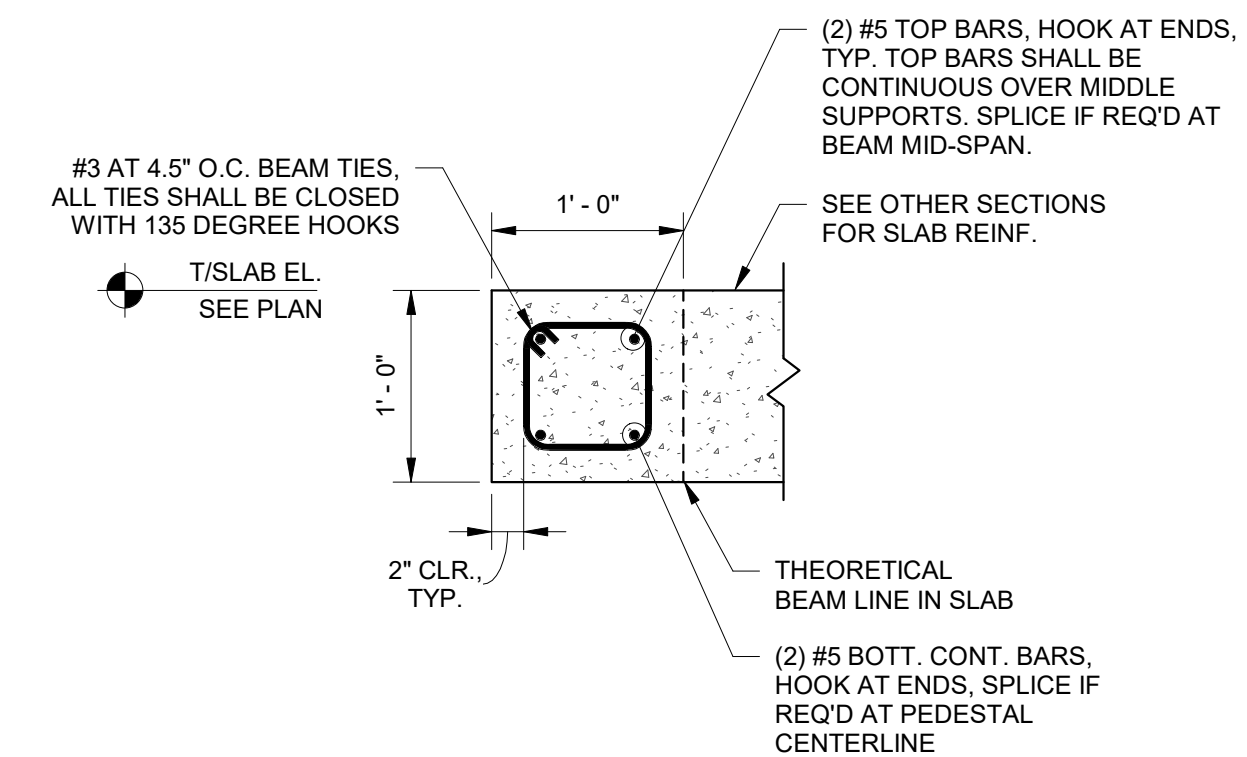
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Issue Date: 04/10/24	Project No: 22-182	Scale: 3/8" = 1'-0"

NEW UV AND CASCADE AERATION - SECTIONS AND DETAILS
Drawing No:
S3-6
Sheet: 147 OF 177

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1 SECTION
S3-7 3/8" = 1'-0"



2 BEAM DETAIL
S3-7 1" = 1'-0"

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REGISTERED PROFESSIONAL ENGINEER
STATE OF INDIANA
PE11500002
Matthew R. Murray
Signature _____ Date 04/10/2024

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Phone: 317.462.8922
www.cecengineers.com

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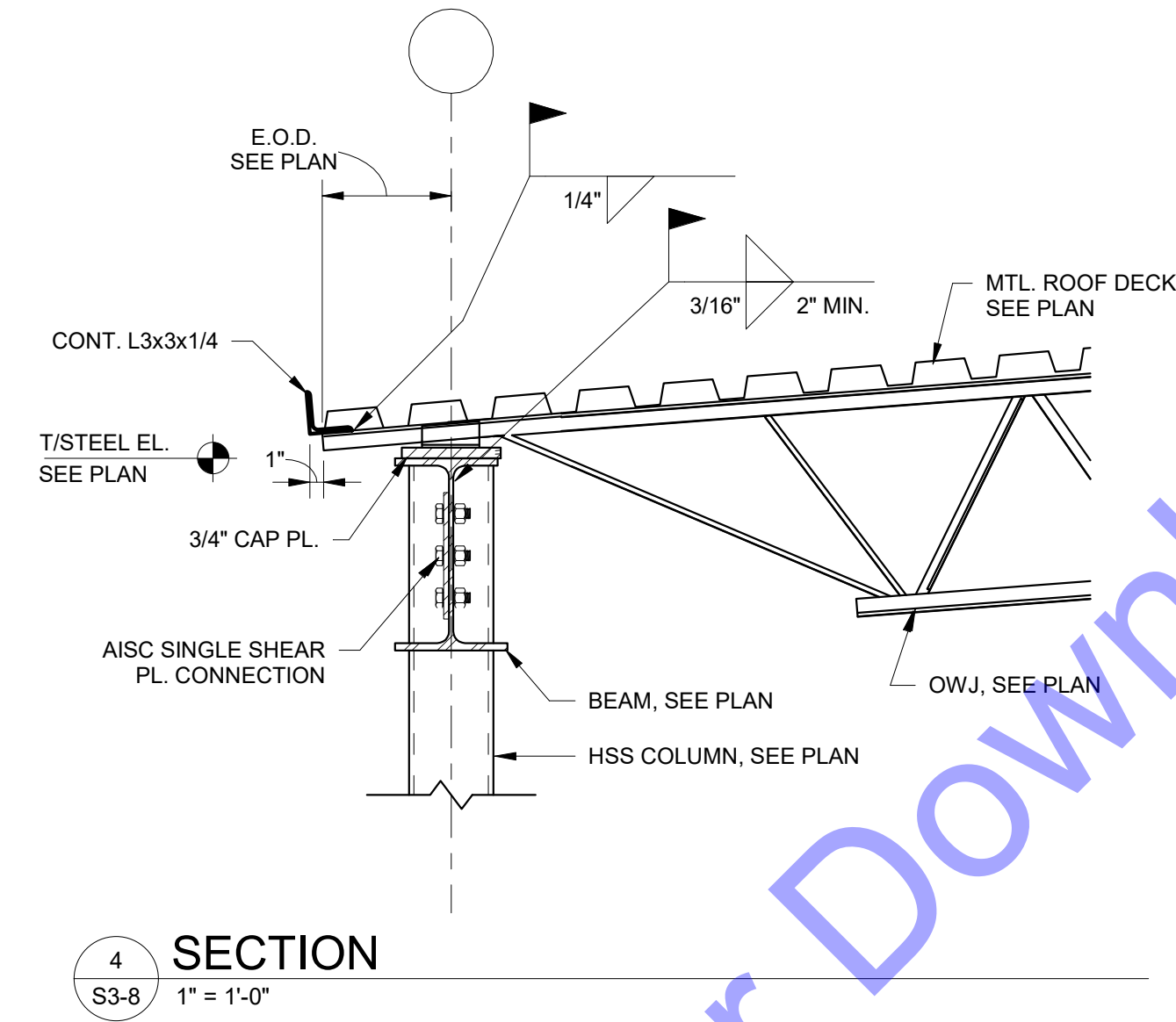
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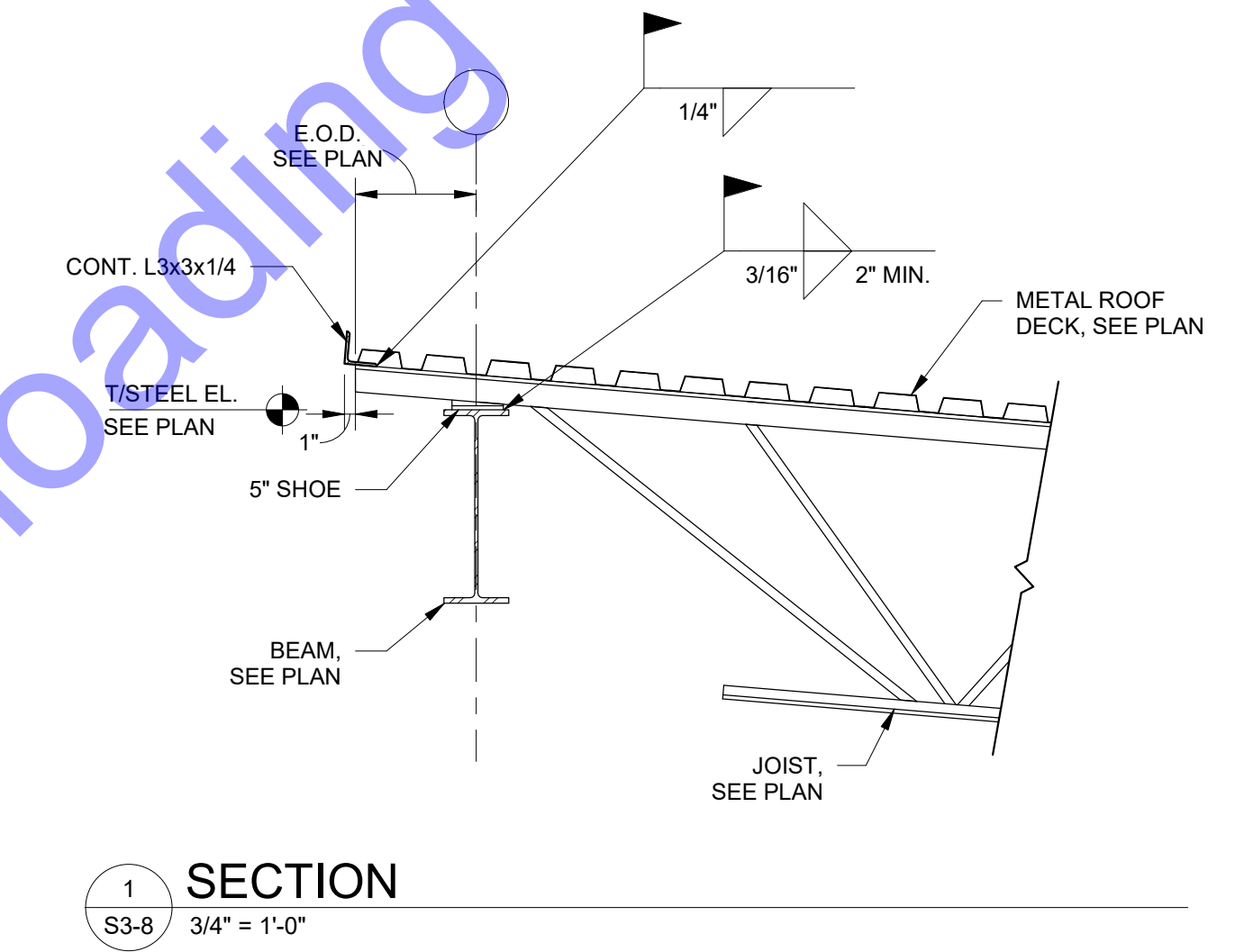
NEW UV AND CASCADE AERATION - SECTIONS AND DETAILS

Drawing No:
S3-7
Sheet: 148 OF 177

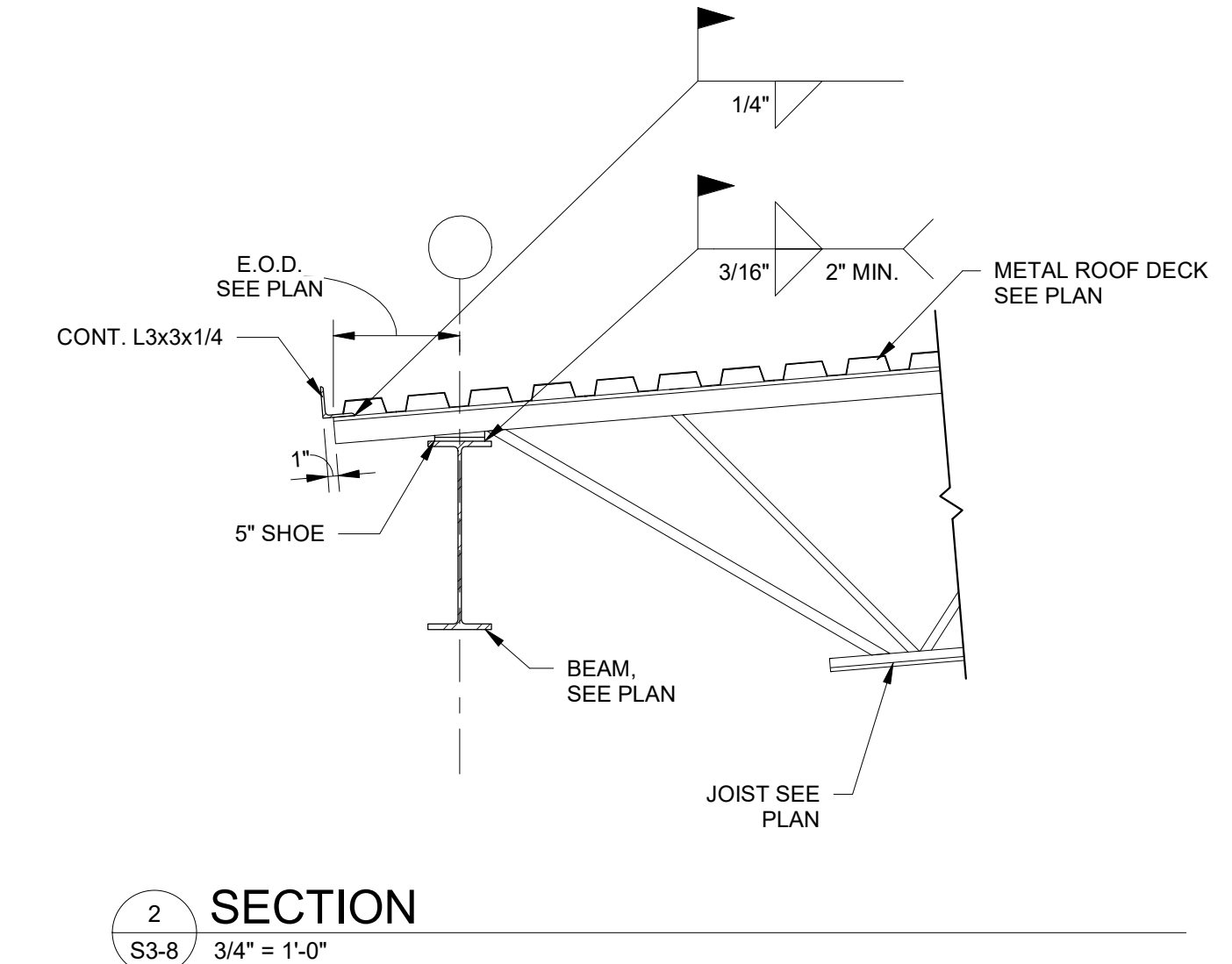
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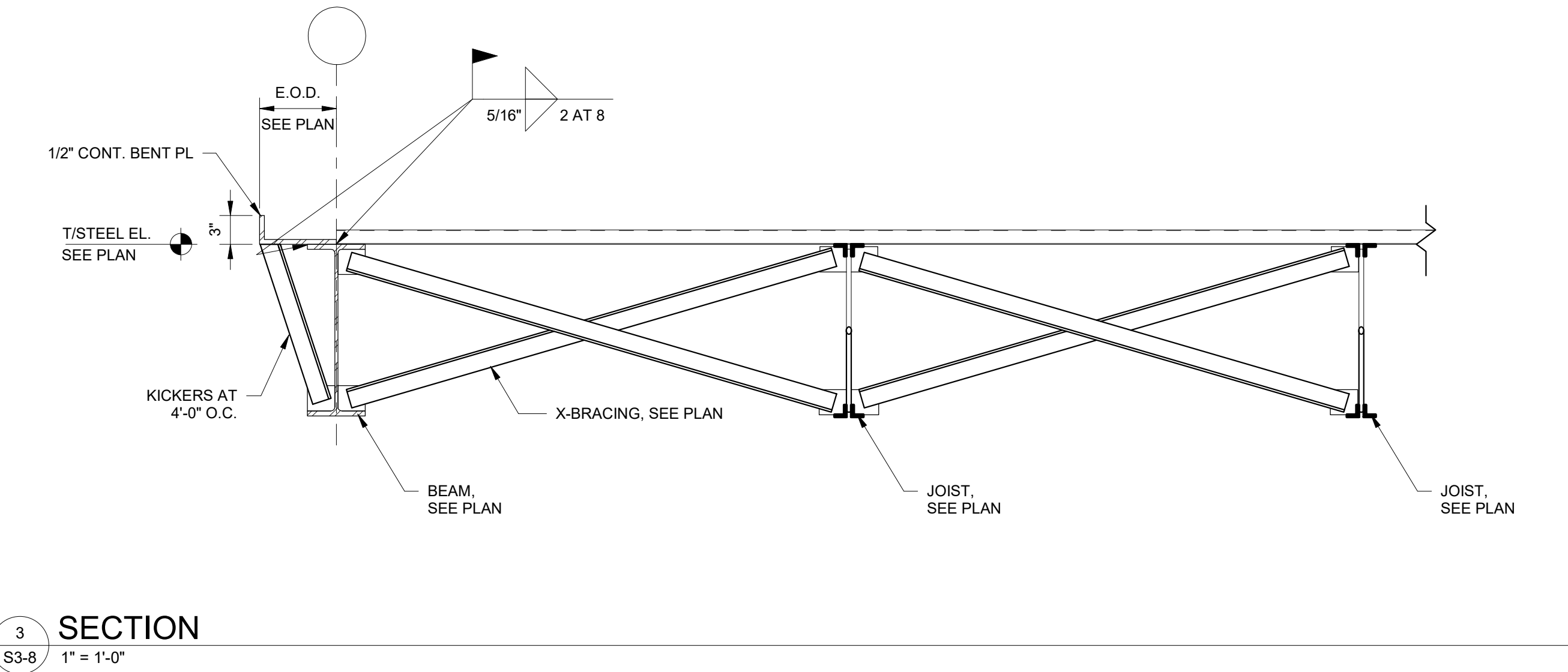
4 SECTION
S3-8 1" = 1'-0"



1 SECTION
S3-8 3/4" = 1'-0"



2 SECTION
S3-8 3/4" = 1'-0"



3 SECTION
S3-8 1" = 1'-0"

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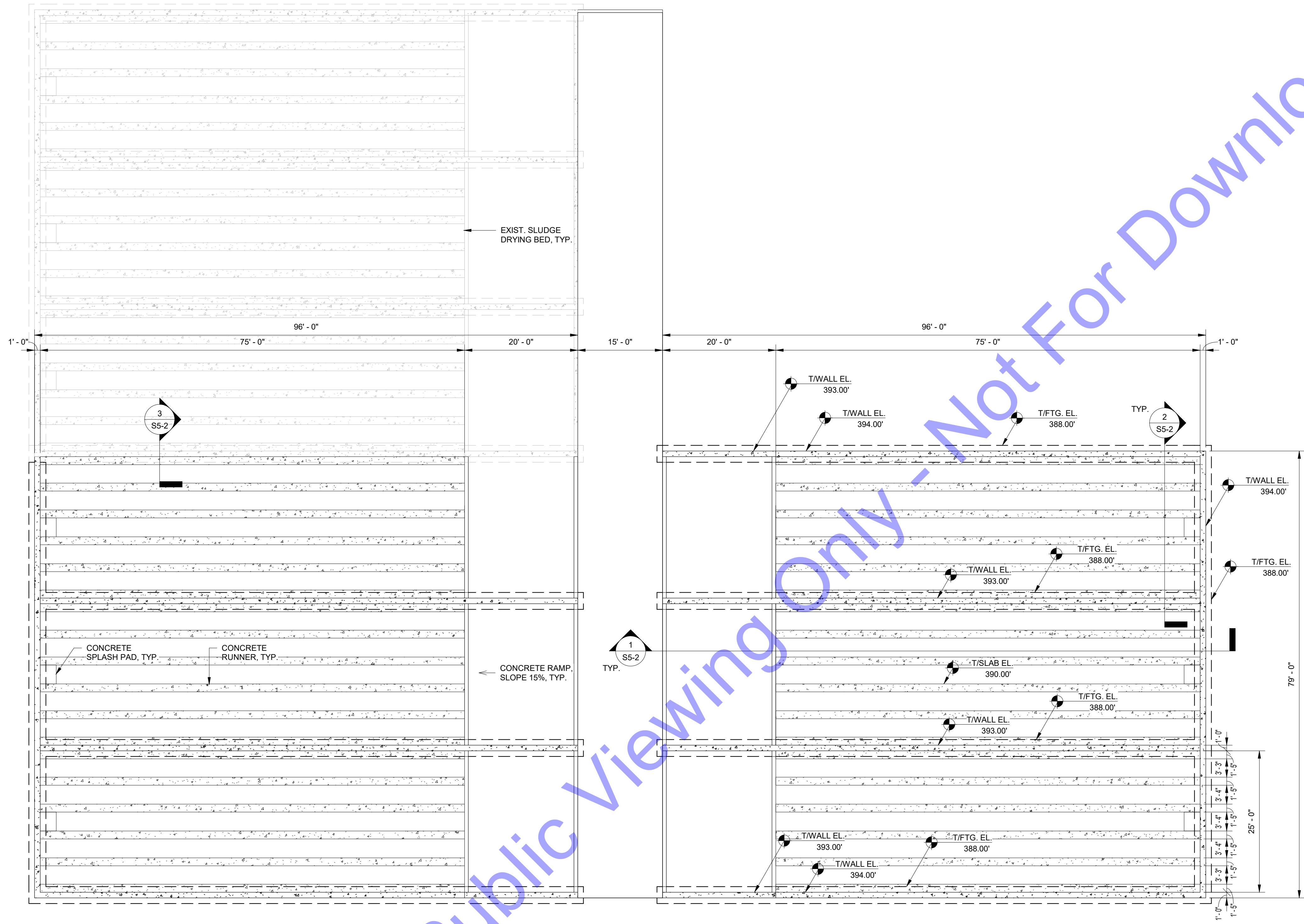
No.	Submital / Revision	By	Date

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Issue Date:	Project No:	Scale:
04/10/24	22-182	As indicated

NEW UV AND CASCADE AERATION - CANOPY FRAMING SECTIONS AND DETAILS

Drawing No:
S3-8
Sheet: 149 OF 177

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DIMENSIONS ARE THE SAME FOR EACH NEW SLUDGE BED (TYP. OF 6)

- FOUNDATION PLAN NOTES**
- INDICATES NOTE REFERENCED IN PLAN
 - 1. SEE THE S0-SERIES SHEETS FOR GENERAL STRUCTURAL NOTES AND TYPICAL STRUCTURAL DETAILS.
 - 2. GENERAL CONTRACTOR TO COORDINATE ALL OPENING, PIPE SLEEVES, EMBEDDED ITEMS, HANDRAILS, GRATING, ETC. WITH THE PROCESS DRAWINGS.
 - 3. ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED PRIOR TO FABRICATION, CONSTRUCTION OR ERECTION. THE GENERAL CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DISCREPANCIES.
 - 4. SEE SITE PLAN FOR ALL FINAL GRADE ELEVATIONS.
 - 5. SEE GEOTECHNICAL REPORT FOR ALL BACKFILLING AND COMPACTION REQUIREMENTS BEHIND WALLS AND UNDER BASE SLABS.
 - 6. GENERAL CONTRACTOR SHALL SUBMIT A CONSTRUCTION JOINT (CJ) AND CONTRACTION JOINT (CT) LOCATION PLAN TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO CONCRETE PLACEMENT.
 - 7. SEE DETAILS 6/S0-3 AND 7/S0-3 FOR WALL CONSTRUCTION JOINT AND WALL CONTRACTION JOINT REQUIREMENTS.
 - 8. MAINTAIN STRUCTURAL SLAB THICKNESSES AT ALL FLOOR SLOPES AND DEPRESSIONS.
 - 9. SEE PROCESS AND MECHANICAL DRAWINGS FOR LOCATION OF EQUIPMENT PADS.

- NOTE - BACKFILL BEHIND CONCRETE WALLS:**
- 1. BACKFILL SHALL BE PLACED SIMULTANEOUSLY ON OPPOSING SIDES OF THE WALL WHILE BACKFILLING.
 - 2. WALL BACKFILL SHALL BE FREE DRAINING GRANULAR MATERIAL EXTENDING FROM THE BASE OF THE WALL AT A 45-DEGREE ANGLE FROM VERTICAL TO FINISHED GRADE.
 - 3. SEE THE GEOTECHNICAL REPORT FOR BACKFILL COMPACTION REQUIREMENTS.

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Professional Engineer Seal for **MATTHEW R. MURRAY**, PE11500002, State of Indiana. Signature: *Matthew Murray*, Date: 04/10/2024

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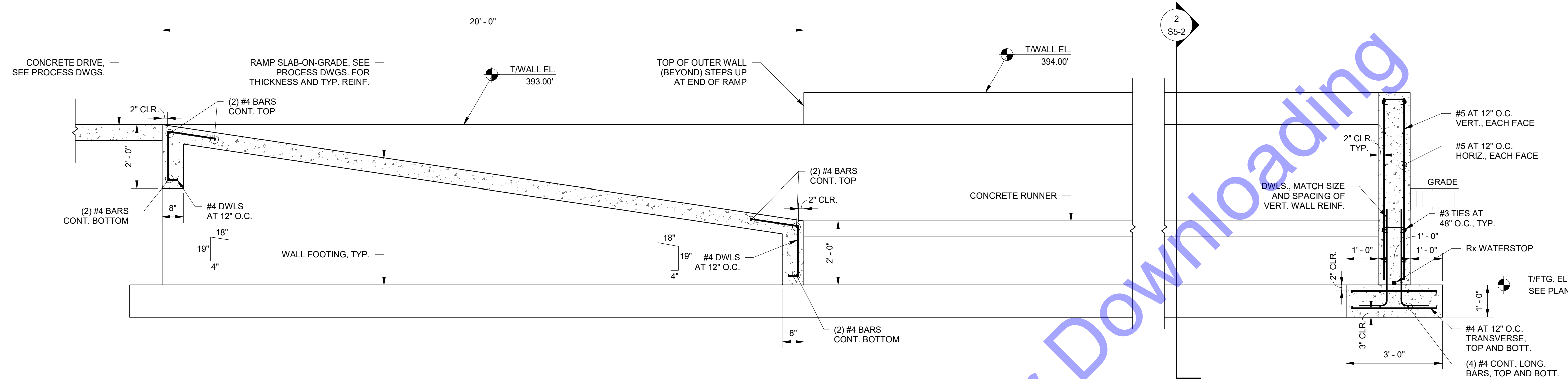
No.	Submital / Revision	By	Date

Designed By: MRM	Drawn By: RMS	Checked By: AMS
Issue Date: 04/10/24	Project No: 22-182	Scale: As indicated

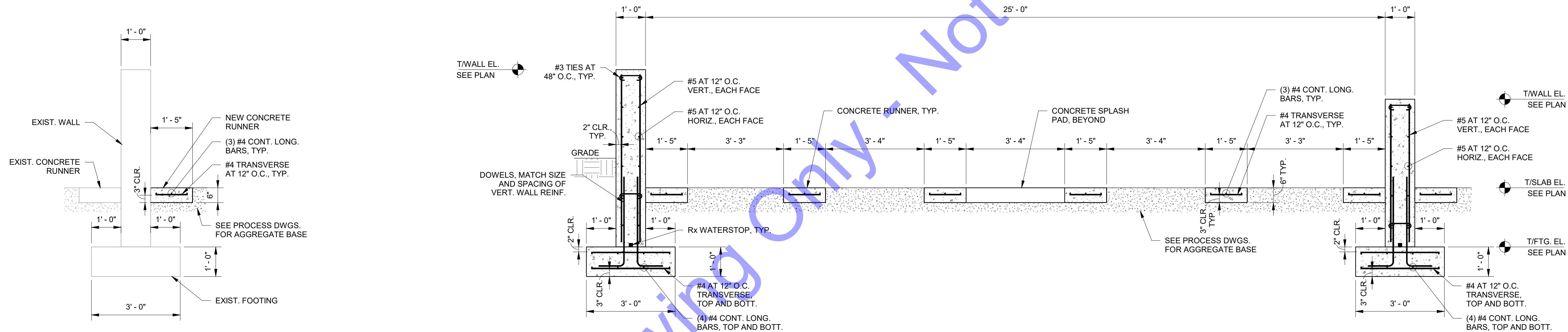
NEW SLUDGE DRYING BEDS - FOUNDATION AND SLAB-ON-GROUND PLAN

Drawing No:
S5-1
 Sheet: 150 OF 177

1 NEW SLUDGE DRYING BEDS - FOUNDATION / SLAB-ON-GROUND PLAN
 S5-1 3/32" = 1'-0"

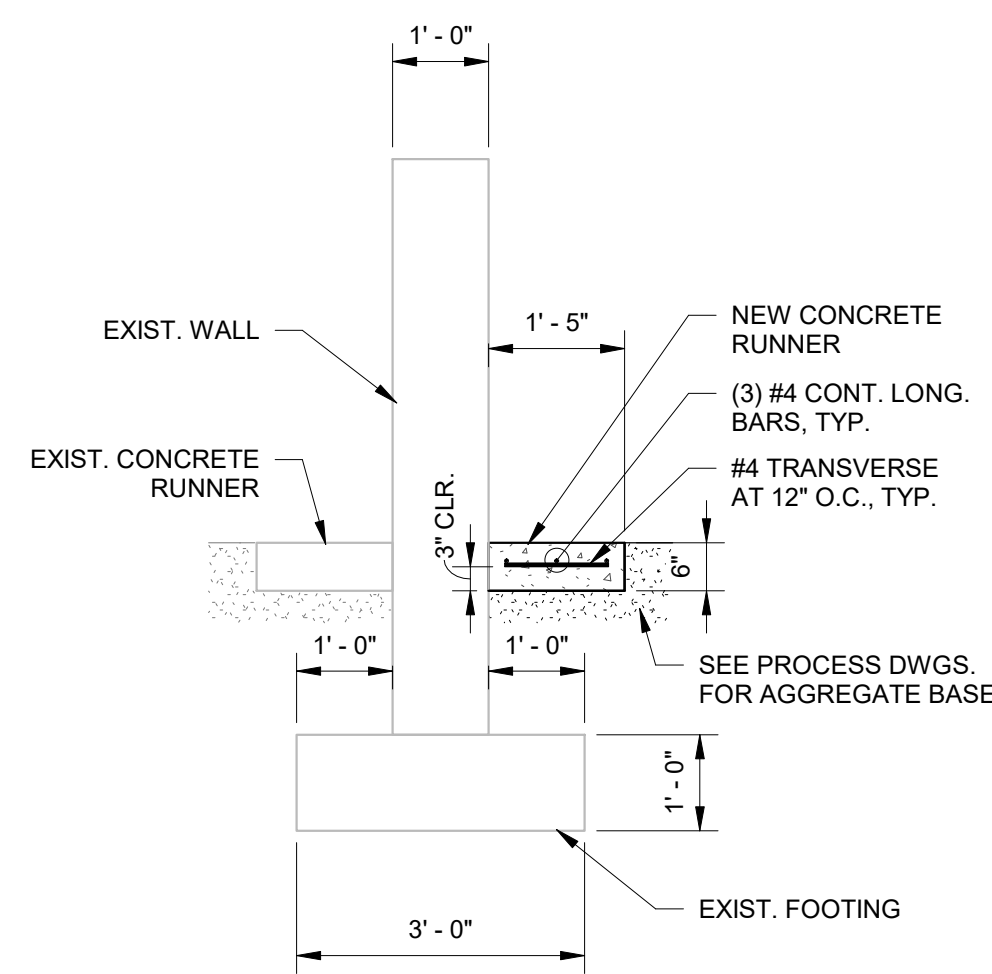


1 SECTION
S5-2 1/2" = 1'-0"



2 SECTION
S5-2 1/2" = 1'-0"

3 SECTION
S5-2 1/2" = 1'-0"



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NEW SLUDGE DRYING BEDS - SECTIONS AND DETAILS

Drawing No:
S5-2
Sheet: 151 OF 177

SPREAD FOOTING SCHEDULE					
MARK	WIDTH	LENGTH	THICK.	LONG. REINF.	TRANS. REINF.
F2.25X7	2'-3"	7'-0"	3'-3"	4 - #5 TOP & BOTT.	#4 STIRRUPS AT 12" O.C.
F2.25X9	2'-3"	9'-0"	3'-3"	4 - #5 TOP & BOTT.	#4 STIRRUPS AT 12" O.C.

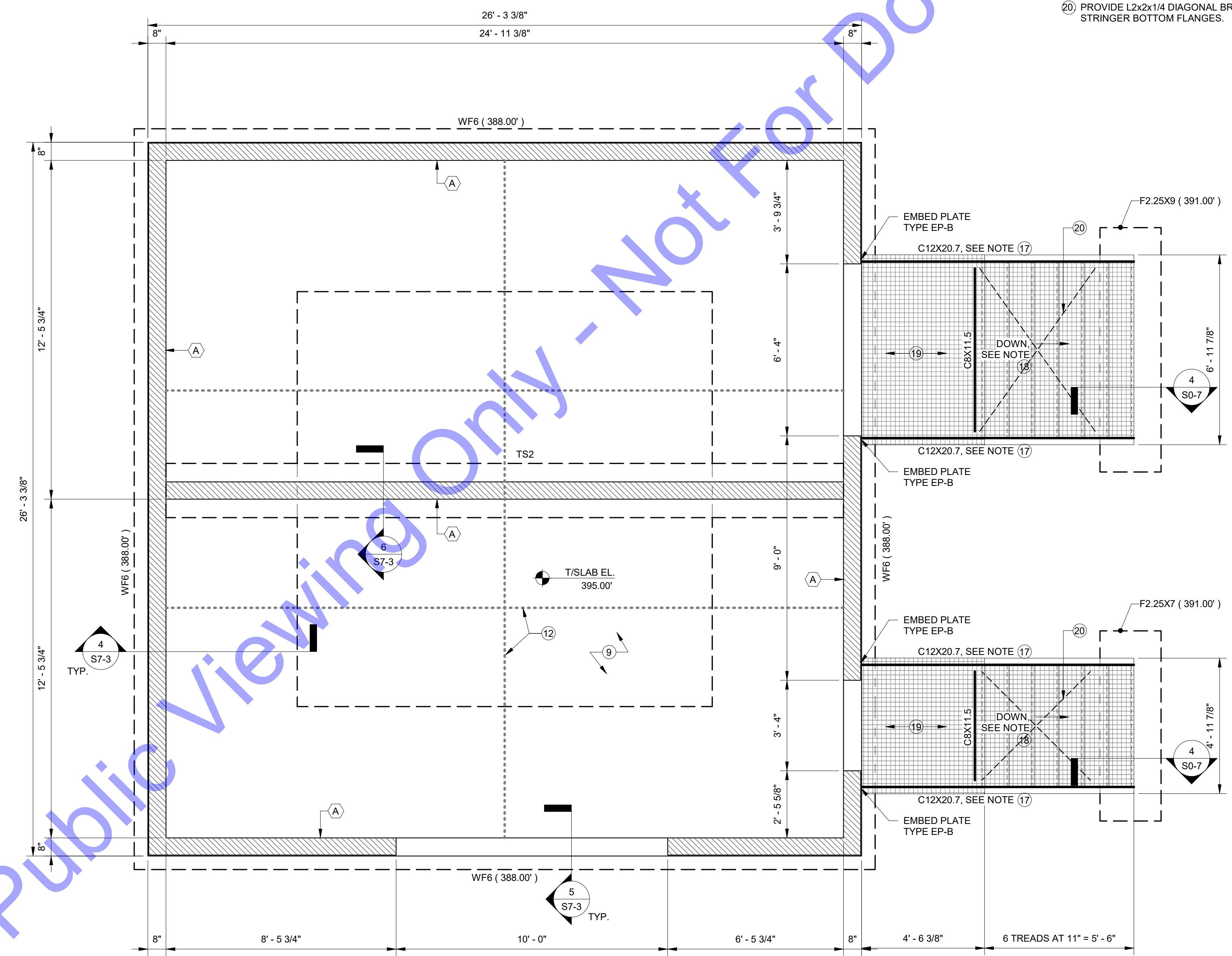
WALL FOOTING SCHEDULE					
MARK	WIDTH	LENGTH	THICK.	LONG. REINF.	TRANS. REINF.
WF6	6'-0"	CONT.	1'-6"	#4 AT 12" O.C., TOP & BOTT.	#5 AT 9" O.C., TOP & BOTT.

THICKENED SLAB SCHEDULE					
MARK	WIDTH	LENGTH	THICK.	BOTT. LONG. REINF.	BOTT. TRANS. REINF.
TS2	2'-0"	CONT.	1'-0"	2 - #5	#4 AT 18" O.C.

MASONRY WALL REINFORCING SCHEDULE	
A	8-INCH CMU WALL 8-INCH NORMAL WEIGHT CMU BLOCK VERTICAL: #5 BARS AT 48" O.C. HORIZONTAL: (2) #5 BARS AT BB ELEV. = T/WALL #9 JOINT REINF. AT 16-INCHES O.C. (8" LAP)
NOTES:	
1. REINFORCE ALL WALLS AS NOTED BY SCHEDULE EXCEPT AS NOTED ON PLANS AND/OR DETAILS.	
2. PROVIDE BOND BEAM (BB) AT TOP OF ALL WALLS. WHEN WALL COURSING DOES NOT FINISH ON A FULL BLOCK, TOP BB DEPTH SHALL BE THE LAST FULL BLOCK PLUS THE PARTIAL DEPTH OF THE REMAINING BLOCK AT TOP OF THE WALL.	
3. PROVIDE A 1'-0" HOOK AT TOP OF ALL VERTICAL BARS.	
4. INSULATE EXTERIOR CMU WALLS USING KORFIL IN-CORE INSULATION OR APPROVED EQUAL. MASONRY CORE INSULATION IS TO BE PLACED AT ALL NON-REINFORCED/NON-GROUTED CMU CORES. MASONRY CORE INSULATION IS NOT PERMITTED AT REINFORCED/GROUTED CMU CORES.	

FOUNDATION PLAN NOTES

- INDICATES NOTE REFERENCED IN PLAN
- 1. SEE THE S0-SERIES SHEETS FOR GENERAL STRUCTURAL NOTES AND TYPICAL STRUCTURAL DETAILS.
- 2. T/SLAB ELEVATION = SEE PLAN
T/FOOTING ELEVATION = SEE PLAN
- 3. GENERAL CONTRACTOR TO COORDINATE ALL OPENING, PIPE SLEEVES, EMBEDDED ITEMS, HANDRAILS, GRATING, ETC. WITH THE PROCESS DRAWINGS.
- 4. ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED PRIOR TO FABRICATION, CONSTRUCTION OR ERECTION. THE GENERAL CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DISCREPANCIES.
- 5. SEE SITE PLAN FOR ALL FINAL GRADE ELEVATIONS.
- 6. SEE GEOTECHNICAL REPORT FOR ALL BACKFILLING AND COMPACTION REQUIREMENTS BEHIND WALLS AND UNDER BASE SLABS.
- 7. WFX (XXX XX') DENOTES WALL FOOTING MARK AND ELEVATION. SEE WALL FOOTING SCHEDULE.
- 8. TSX (XXX XX') DENOTES THICKENED SLAB MARK AND ELEVATION. SEE THICKENED SLAB SCHEDULE.
- 9. FLOOR SLAB SHALL CONSIST OF A 6-INCH CONCRETE SLAB-ON-GROUND OVER COMPACTED AGGREGATE FILL AND A 10-MIL VAPOR RETARDER. REINFORCE SLAB WITH SYNTHETIC FIBERS AS INDICATED IN THE GENERAL STRUCTURAL NOTES.
- 10. MAINTAIN STRUCTURAL SLAB THICKNESSES AT ALL FLOOR SLOPES AND DEPRESSIONS.
- 11. AT RE-ENTRANT SLAB CORNER CONDITIONS, PROVIDE (2) #4 x 4'-0" LONG AT 3-INCHES O.C. PLACED 2-INCHES CLEAR FROM CORNER, CENTERED IN SLAB, TYPICAL.
- 12. SAW CUT OR WET CUT CONTRACTION JOINTS IN SLABS AS SHOWN ON PLANS. WET CUTS ARE TO BE MADE AFTER FINAL FLOATING WHILE CONCRETE IS STILL PLIABLE. SAW CUTS ARE TO BE MADE AS SOON AS PRACTICAL AFTER FINAL HARD TROWELING BUT MUST BE COMPLETED WITHIN 2-HOURS OF FINAL TROWELING.
- 13. GENERAL CONTRACTOR MAY SUBMIT ALTERNATE CONSTRUCTION / CONTRACTION JOINT PLAN TO ACCOMMODATE CONSTRUCTION. APPROVAL IS REQUIRED ON ALTERNATE PLANS PRIOR TO CONSTRUCTION.
- 14. (X) DENOTES MASONRY WALL TYPE, SEE SCHEDULE.
- 15. SEE PROCESS AND MECHANICAL DRAWINGS FOR LOCATION OF EQUIPMENT PADS.
- 16. ALL STRUCTURAL STEEL SHALL BE HOT-DIPPED GALVANIZED.
- 17. SEE PLAN FOR STEEL STAIR STRINGER MINIMUM SIZE REQUIREMENTS. STEEL FABRICATOR SHALL DETERMINE REQUIRED STAIR STRINGER PROFILE TO ACCOMMODATE PROVIDED STAIR LENGTH DIMENSIONS AND ELEVATION CHANGE.
- 18. STAIR TREADS SHALL BE 2" THICK PULTRUDED FIBER REINFORCED POLYMER GRATING UNLESS OTHERWISE NOTED. CONTRACTOR SHALL DETERMINE REQUIRED STAIR RISE / RUN LAYOUT. SEE TYPICAL STAIR DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 19. STAIR LANDING GRATING SHALL BE 2" THICK MOLDED FIBER REINFORCED POLYMER GRATING UNLESS OTHERWISE NOTED. SEE TYPICAL STAIR DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 20. PROVIDE L2x2x1/4 DIAGONAL BRACING AT STAIR FLIGHTS; WELD L2x2x1/4 BRACE MEMBERS TO STRINGER BOTTOM FLANGES.



1 NEW CHEMICAL FEED AND ELECTRICAL BUILDING - FOUNDATION AND SLAB-ON-GRADE PLAN
S7-1 3/8" = 1'-0"

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THE STATE OF INDIANA
REGISTERED PROFESSIONAL ENGINEER
PE11500002
Walter R. Murray
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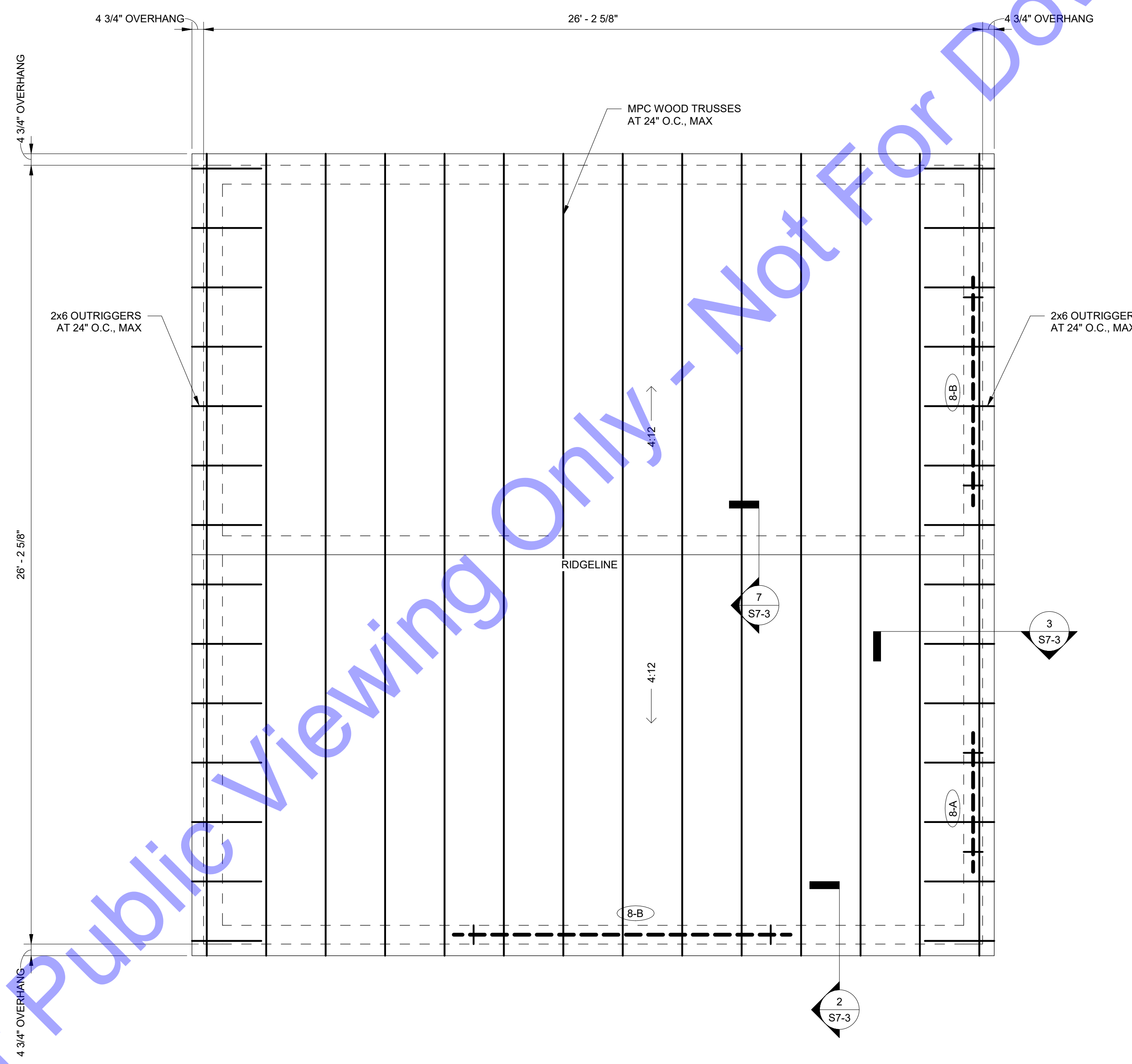
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NEW CHEMICAL FEED AND ELECTRICAL BUILDING - FOUNDATION AND SLAB-ON-GRADE PLAN

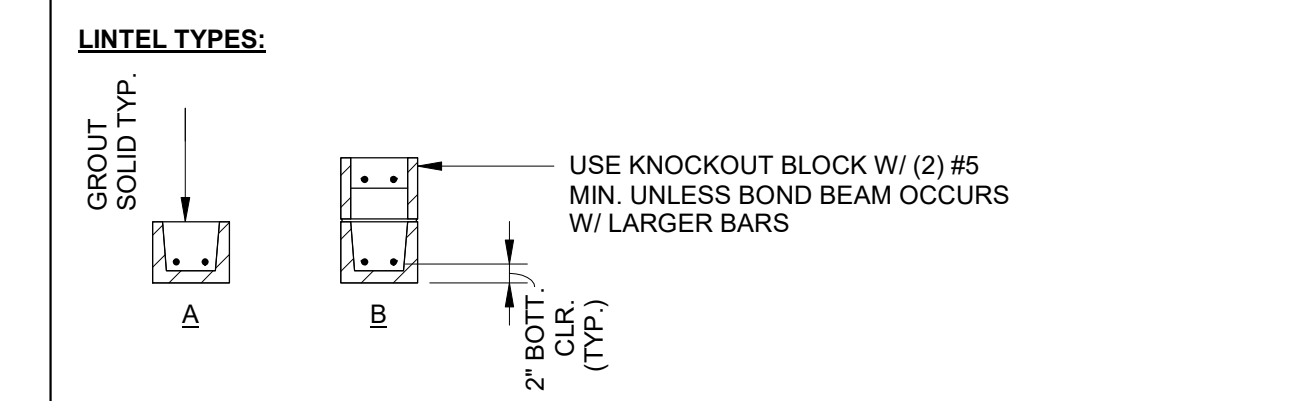
Drawing No:
S7-1
Sheet: 152 OF 177



- ROOF FRAMING PLAN NOTES**
- INDICATES NOTE REFERENCED IN PLAN
 - 1. SEE THE S0-SERIES SHEETS FOR GENERAL STRUCTURAL NOTES AND TYPICAL STRUCTURAL DETAILS.
 - 2. TRUSS BEARING ELEVATION = 405.25'
TCMU WALL ELEVATION = 405.00'
 - 3. ROOF SHEATHING SHALL BE 5/8-INCH APA-RATED SHEATHING, EXPOSURE 1. ATTACH WITH 8d COMMON NAILS AT 12-INCHES O.C. IN FIELD AND 6-INCHES O.C. AT EDGES AND DIAPHRAGM BOUNDARIES. UNLESS NOTED OTHERWISE, PROVIDE SHEATHING SUPPORT CLIPS BETWEEN TRUSSES AT UNBLOCKED PANEL EDGES (SIMPSON PSC1 OR EQUAL).
 - 4. METAL-PLATE-CONNECTED WOOD TRUSSES SHALL BE DESIGNED TO SUPPORT LOADING AS SPECIFIED ON SHEET S0-2.
 - 5. THE TRUSS MANUFACTURER SHALL COORDINATE THE SIZE, LOCATION, AND WEIGHT OF ALL ROOF-SUPPORTED EQUIPMENT, PIPING, CONDUIT, DUCTS, ETC. WITH THE ARCHITECTURAL, PROCESS, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND THE GENERAL CONTRACTOR.
 - 6. (8-X) DENOTES MASONRY LINTEL - SEE SCHEDULE ON THIS SHEET.

CMU LINTEL SCHEDULE

LINTEL MARK	SIZE	BOTT. BARS	TOP BARS	EXTEND PAST OPNG.	TIES	SPAN
8-A	8"x8"	2-#5	-	8"	-	SEE PLAN
8-B	8"x16"	2-#5	2-#5	16"	-	SEE PLAN



- NOTES:**
1. LINTEL BLOCKS AND BOTTOM BARS TO EXTEND PAST CMU OPENING TO WIDTHS INDICATED IN SCHEDULE. CUT OUT BOTTOM SHELL OF LINTEL BLOCKS AT BEARING TO ALLOW INTEGRAL GROUTING OF LINTEL & FILLED CELLS BELOW AT BEARING. PROVIDE FILLED CELLS FULL WIDTH OF BEARINGS INDICATED WITH VERTICAL IN EACH CELL EXTENDING FROM FLOOR TO ROOF. USE BAR SIZE INDICATED FOR WALL THICKNESS.
 2. CONSTRUCTION JOINTS SHALL NOT OCCUR WITHIN 2" OF THE ENDS OF THE LINTEL BEARINGS.
 3. LINTELS SHALL BE GROUTED SIMILAR TO WALLS. ALL GROUT MUST BE CONSOLIDATED TWICE, ONCE WITHIN 5 MINUTES OF PLACEMENT AND ONCE 15-20 MINUTES AFTER PLACEMENT.

1 NEW CHEMICAL FEED AND ELECTRICAL BUILDING - ROOF FRAMING PLAN
S7-2 3/8" = 1'-0"

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Matthew R. Murray
04/10/2024

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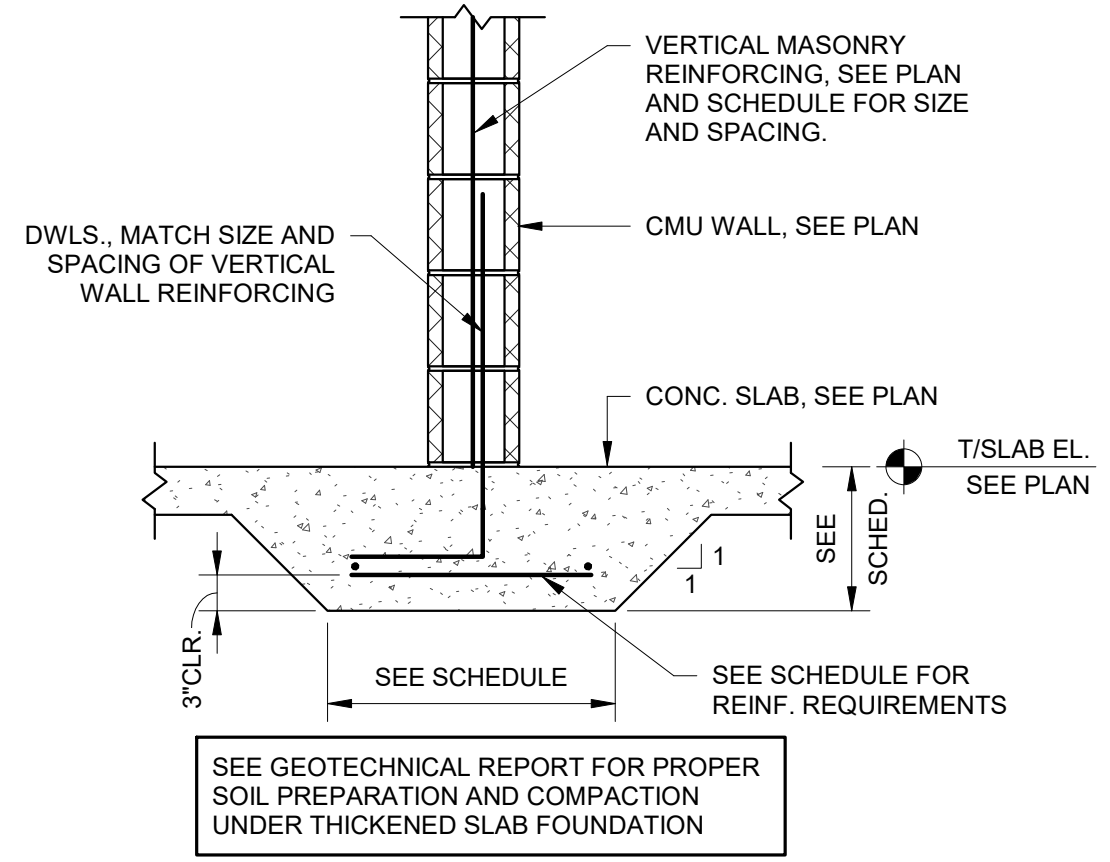
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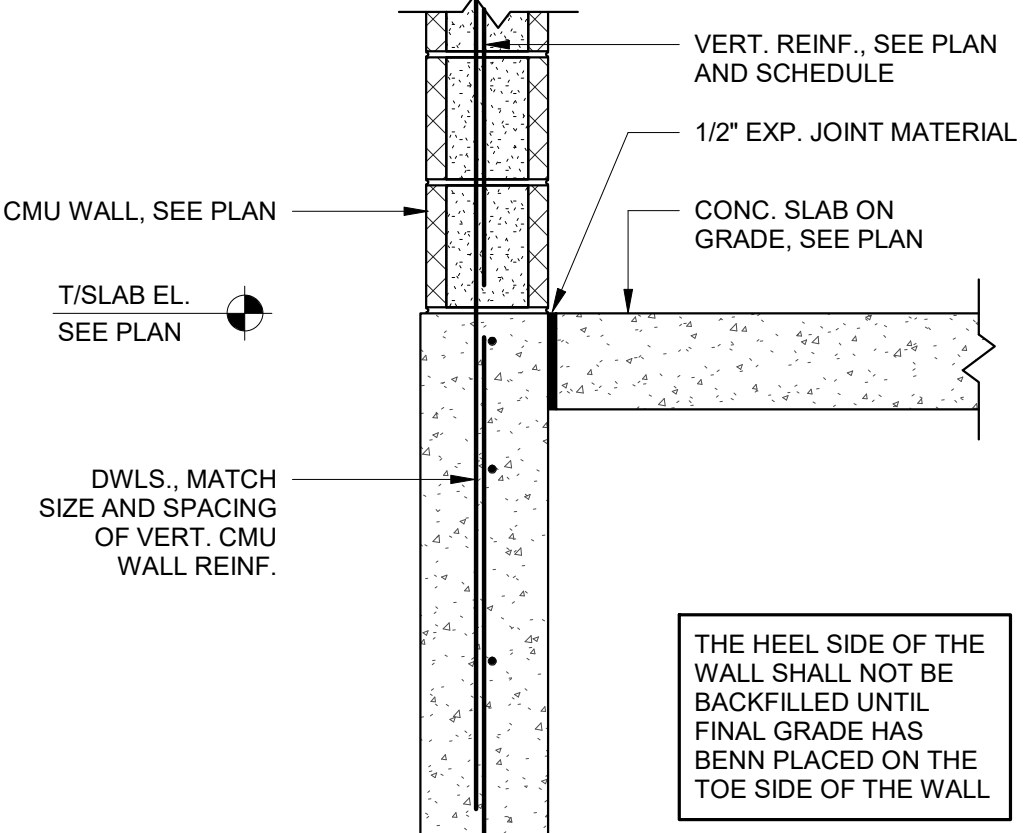
NEW CHEMICAL FEED AND ELECTRICAL BUILDING - ROOF FRAMING PLAN

Drawing No:
S7-2

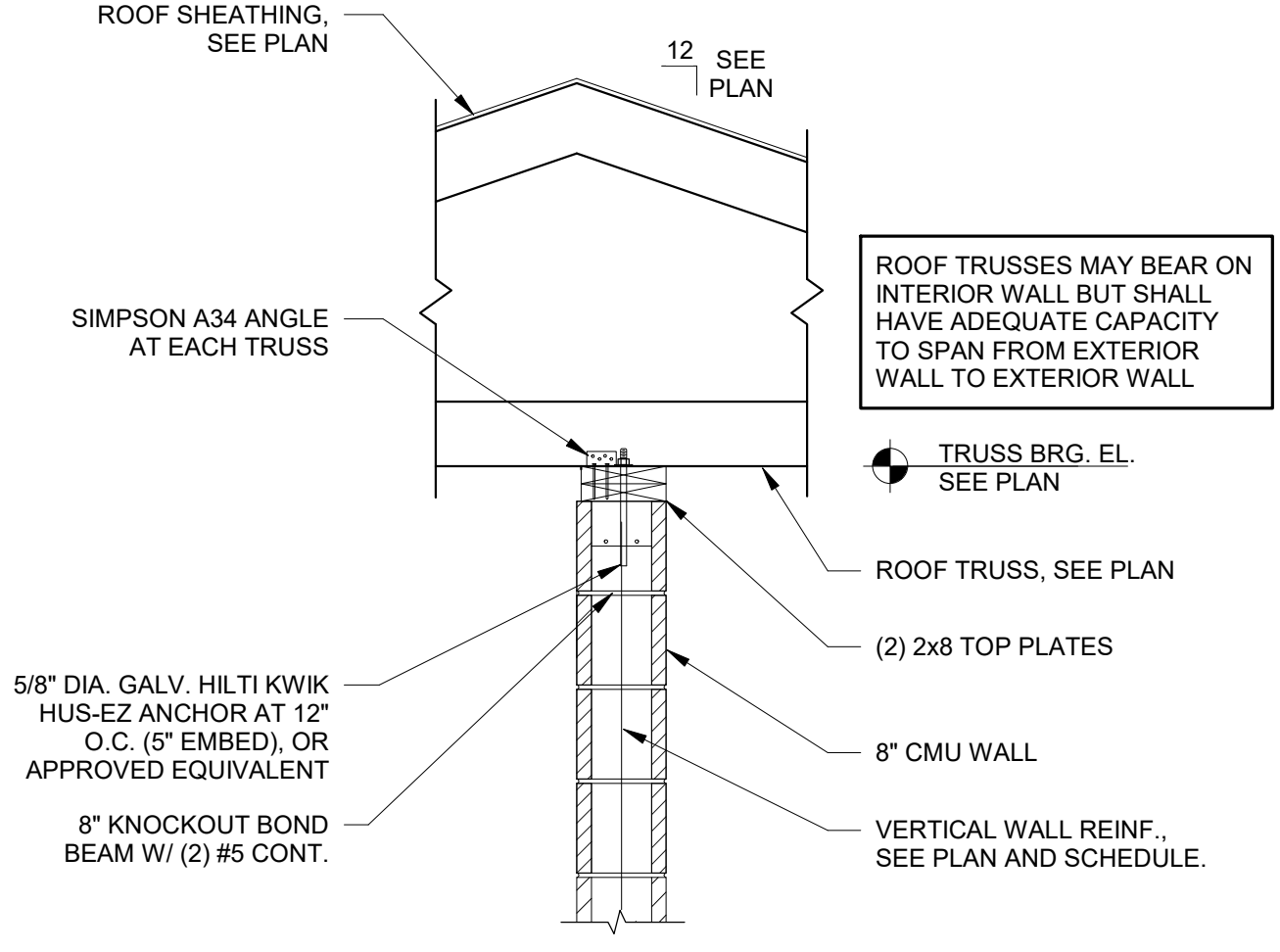
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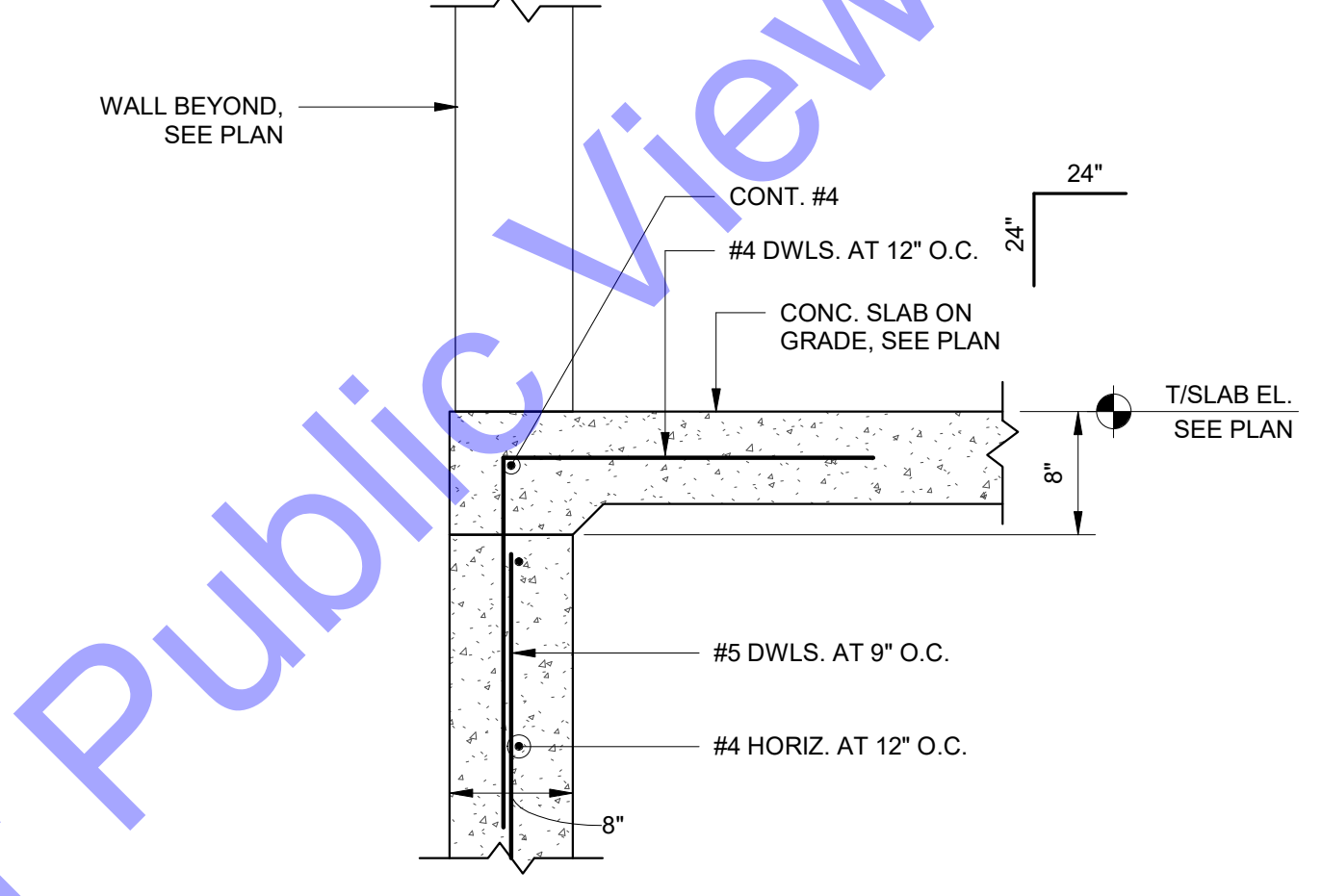
6 TYP. THICKENED SLAB DETAIL
S7-3 3/4" = 1'-0"



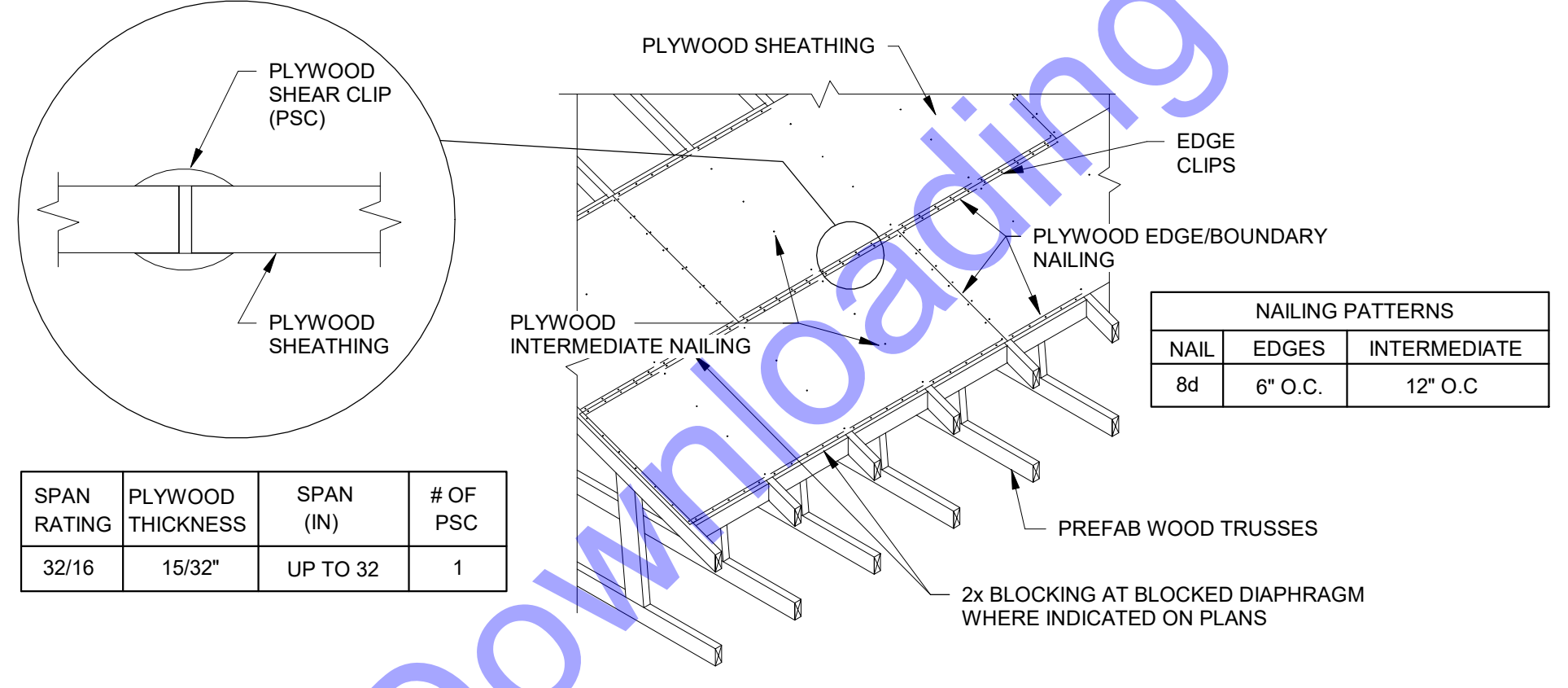
4 FOUNDATION WALL SECTION
S7-3 1" = 1'-0"



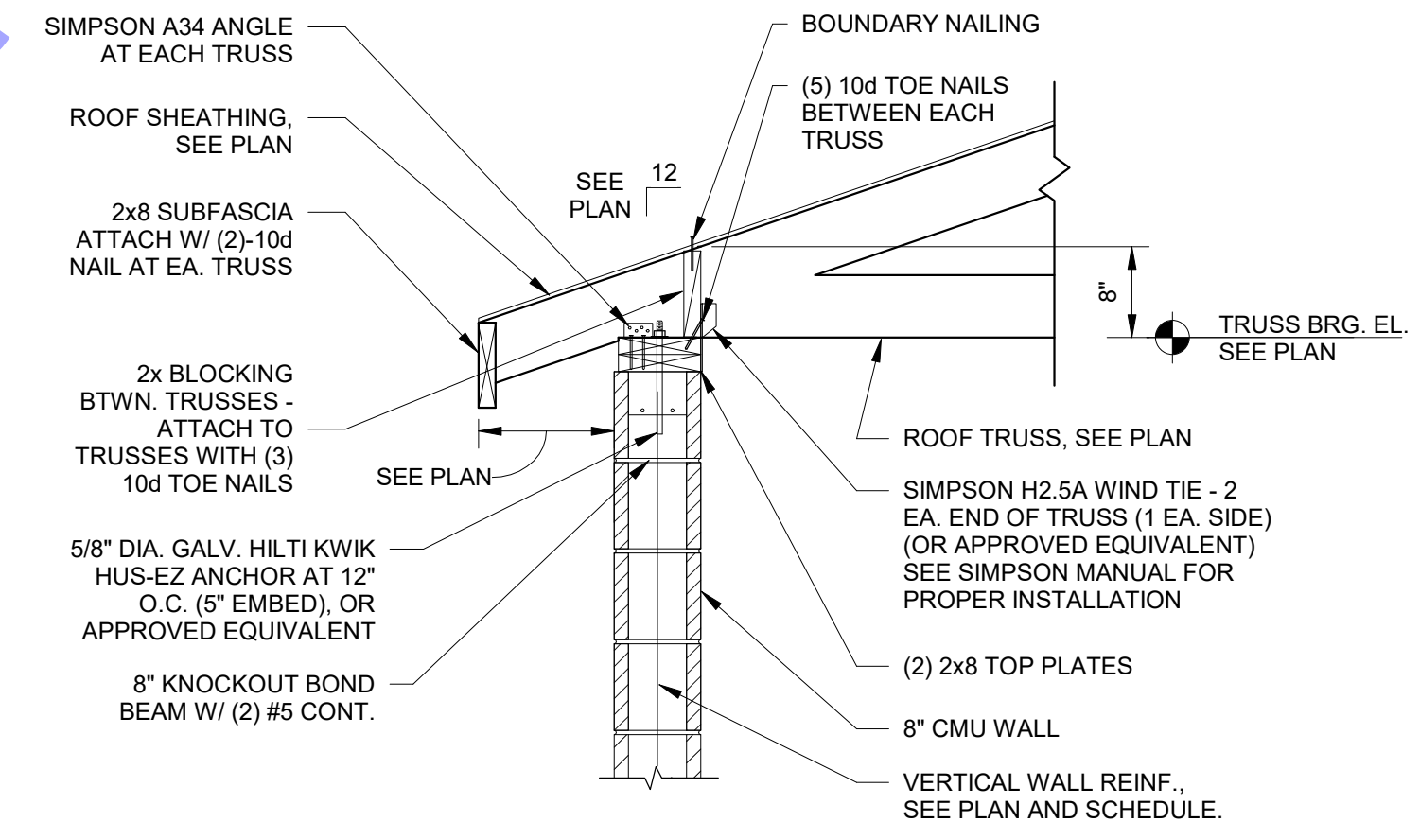
7 WALL SECTION
S7-3 3/4" = 1'-0"



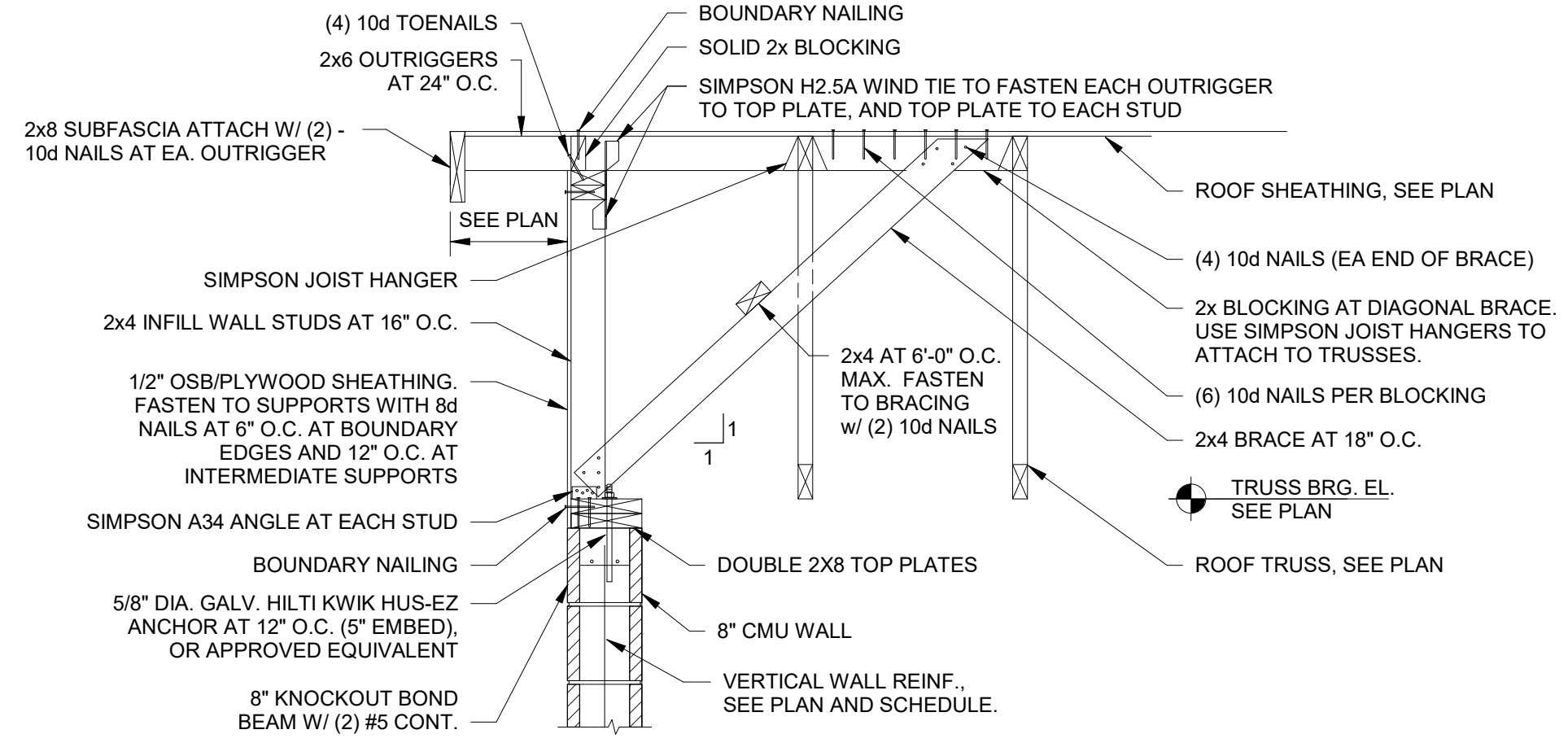
5 FOUNDATION WALL SECTION AT DOOR
S7-3 1" = 1'-0"



1 TYPICAL ROOF SHEATHING DETAIL
S7-3 1/2" = 1'-0"



2 WALL SECTION
S7-3 3/4" = 1'-0"



3 WALL SECTION
S7-3 3/4" = 1'-0"

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APPLICABLE CODES AND STANDARDS

- MECHANICAL INSTALLATION TO BE IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, AND FEDERAL CODES HAVING JURISDICTION.
- CODES CONSIDERED APPLICABLE TO THIS PROJECT INCLUDE BUT ARE NOT LIMITED TO:
 - IBC, 2011 INDIANA BUILDING CODE - BASED ON IBC 2009.
 - OMC, 2011 INDIANA MECHANICAL CODE - BASED ON IMC 2009.
 - OFC, 2011 INDIANA PLUMBING CODE - BASED ON IPC 2009.
 - OFC, 2011 INDIANA FIRE CODE - BASED ON IFC 2009.
 - IECC, 2009 INTERNATIONAL ENERGY CONSERVATION CODE.
 - ASHRAE STANDARD 90.1 2007 ENERGY STANDARDS FOR BUILDINGS EXCEPT LOW-RISE RESIDENTIAL BUILDINGS.
 - NFPA 13: 2010 SPRINKLER SYSTEM INSTALLATION.
 - NFPA 14: 2010 STANDPIPE AND HOSE SYSTEMS.
 - NFPA 70: 2011 NATIONAL ELECTRICAL CODE (NEC)
 - NFPA 72: 2010 FIRE ALARM AND SIGNALING CODE.
 - ANSI HANDICAPPED CODE A117.1
 - AGA: AMERICAN GAS ASSOCIATION.
 - AMCA: AIR MOVING AND CONDITIONING ASSOCIATIONS, INC.
 - AMCA: AMERICAN NATIONAL STANDARDS INSTITUTE.
 - ARI: AMERICAN REFRIGERATION INSTITUTE.
 - ASHRAE: AMERICAN SOCIETY OF HEATING REFRIGERATION AND AIR CONDITIONING ENGINEERS.
 - ASME: AMERICAN SOCIETY OF MECHANICAL ENGINEERS.
 - ASTM: AMERICAN SOCIETY FOR TESTING AND MATERIALS.
 - SMSS: MANUFACTURER'S STANDARDIZATION SOCIETY OF THE VALVE AND FITTING INDUSTRY.
 - NEMA: NATIONAL ELECTRIC MANUFACTURER'S ASSOCIATION.
 - NFPA: NATIONAL FIRE PROTECTION ASSOCIATION.
 - SMACNA: SHEET METAL CONSTRUCTION FOR VENTILATING AND AIR-CONDITIONING SYSTEMS.
 - UL: UNDERWRITERS LABORATORIES, INC.
- INSTALL ALL WORK IN STRICT CONFORMITY WITH APPLICABLE CODES. SUBMIT AND/OR FILE WITH PROPER AUTHORITIES NECESSARY CONTRACT DOCUMENTS AS REQUIRED BY GOVERNING AUTHORITIES.

HEAT/COOL DUCTLESS SPLIT SYSTEM HEAT PUMP UNIT

GENERAL NOTES:

(1) - COOLING CAPACITY BASED ON 95° O.A.T. AND 80°/67° INDOOR TEMPERATURE

UNIT ACCESSORIES:

① - OPERATION TO -20° HEAD PRESSURE CONTROL
 ② - WALL MOUNTED T'STAT WITH SUBBASE HEATING/COOLING WITH AUTOMATIC CHANGEOVER
 ③ - CONDENSATE PUMP
 ④ - COLD TEMPERATURE KIT & OUTDOOR DRAIN PAN HEATER
 ⑤ - HEAT PUMP WALL MOUNT BRACKET
 ⑥ - LINE SET COVER AND WALL SLEEVE

IDENTIFICATION	FC-1.2HP-1.2 ELECTRICAL ROOM SPLIT SYSTEM
MANUFACTURER	TRANE/MITSUBISHI
A/C UNIT MODEL NO.	PLA-A24EA7
A/C UNIT TYPE	CEILING CASSETTE
HEAT PUMP UNIT MODEL NO.	PUZ-A24NH7 (-BS)
HEAT PUMP UNIT TYPE	REMOTE
SEER	24.2
UNIT ACCESSORIES	①②③④⑤⑥
INDOOR COIL	CFM 770 (HIGH SPD, WET COIL)
MIN. OUTSIDE AIR	0
ELEC MCA/MOCP	1A/20
COOL/HEAT CAPACITY	24,000/26,000
COND. UNIT	ELEC 208-230/1/60
	ELEC MCA/MOCP 19A/30A
REMARKS	WIRED THERMOSTAT

COORDINATION NOTES

- VISIT SITE AND BE INFORMED OF CONDITIONS UNDER WHICH WORK MUST BE PERFORMED.
- GENERAL CONTRACTOR OR CONSTRUCTION MANAGER SHALL COORDINATE LOCATION AND PROVIDE SUPPORT FRAMING FOR ALL ROOF-MOUNTED HVAC EQUIPMENT.
- GENERAL CONTRACTOR OR CONSTRUCTION MANAGER SHALL INCLUDE ADEQUATE TIME IN THE CONSTRUCTION SCHEDULE FOR THE TEST & BALANCE SUBCONTRACTOR TO COMPLETE THE SETUP AND BALANCE OF ALL AIR AND WATER FLOW SYSTEMS IN THE PROJECT AFTER THE MECHANICAL SUBCONTRACTOR HAS ALL AIR AND WATER SYSTEMS IN CONTINUOUS, STABLE OPERATION AND UNDER CONTROL. PRIOR TO STARTING THE TESTING AND BALANCING WORK, THE DIVISION 23 SUBCONTRACTOR SHALL FURNISH COMPLETED SETUP AND COMMISSIONING WORKSHEETS AS LISTED IN SECTION 230800 TO THE TEST AND BALANCE SUBCONTRACTOR AS EVIDENCE THAT THE SYSTEMS HAVE BEEN SETUP, CHECKED AND ARE OPERATIONALLY READY FOR BALANCING.
- NO SUBSEQUENT ALLOWANCE WILL BE MADE FOR ERROR OR FAILURE TO OBTAIN NECESSARY INFORMATION TO COMPLETELY ESTIMATE AND PERFORM ALL WORK INVOLVED.
- CAREFULLY EXAMINE DRAWINGS AND SPECIFICATIONS TO BE THOROUGHLY FAMILIAR WITH ITEMS WHICH REQUIRE PLUMBING OR HVAC CONNECTIONS AND COORDINATION.
- NOTIFY OTHER TRADES OF ANY DEVIATIONS OR SPECIAL CONDITIONS NECESSARY FOR INSTALLATION OF WORK.
- RESOLVE INTERFERENCES BETWEEN WORK OF OTHER TRADES PRIOR TO INSTALLATION.
- ADVISE OTHER TRADES TO LEAVE PROPER CHASES AND OPENINGS, PLACE OUTLETS, ANCHORS, SLEEVES, AND SUPPORTS PRIOR TO POURING CONCRETE OR INSTALLATION OF MASONRY WORK.
- IN AREAS OF RENOVATION, INSTALLATION OF NEW PIPING, DUCTWORK, AND EQUIPMENT WILL REQUIRE REMOVAL OF THE EXISTING CEILING AND GRID. SURVEY THE SITE AND BE INFORMED OF EXISTING CONDITIONS WHICH WILL REQUIRE CEILING REMOVAL. INCLUDE THE COST OF THE CEILING WORK OR COORDINATE ITS REMOVAL WITH THE GENERAL CONTRACTOR.
- ADDITIONAL INSTALLATION COST ASSOCIATED WITH SUBSTITUTED EQUIPMENT REQUIRING ADDITIONAL WORK ON THE PART OF THIS CONTRACTOR OR OTHER SUBCONTRACTORS TO SATISFY THE MANUFACTURER'S INSTALLATION REQUIREMENTS SHALL BE THE RESPONSIBILITY OF THE SUBMITTING CONTRACTOR.
- COORDINATE ALL NECESSARY POWER CONNECTIONS AS RECOMMENDED BY THE MANUFACTURERS OF INSTALLED EQUIPMENT WITH ELECTRICAL TRADESMEN.
- COORDINATE WITH ELECTRICAL TRADESMEN FOR PROPER SIZING OF CIRCUIT BREAKERS, FUSES, SAFETY SWITCHES, CONDUIT AND WIRING FOR ALL EQUIPMENT FURNISHED BY DIVISION 23 EQUIPMENT PRIOR TO ROUGH-IN.
- DO NOT ROUTE ANY PIPING DIRECTLY ABOVE OR 42 INCHES IN FRONT OF ELECTRICAL SWITCHGEAR, PANELS OR TRANSFORMERS.
- IN CERTAIN AREAS OF RENOVATION, INSTALLATION OF NEW PIPING, DUCTWORK, AND EQUIPMENT AS WELL AS HIGHER CEILING HEIGHTS WILL REQUIRE OFFSETTING, RAISING AND IN SOME INSTANCES RELOCATING OF EXISTING PIPING, DUCTWORK, RAIN WATER LEADERS, SPRINKLERS, AND CONDUIT. SURVEY THE SITE AND BE INFORMED OF EXISTING CONDITIONS IN PARTICULAR ABOVE CEILING WHICH WILL REQUIRE OFFSETTING AND OR RELOCATION OF EXISTING PIPING, DUCTWORK AND CONDUIT AND INCLUDE THE COST OF THIS WORK.

MECHANICAL LEGEND

PIPING		DUCTWORK	
CHS	CHILLED WATER SUPPLY	Supply Ductwork	
CHR	CHILLED WATER RETURN	Return or Exhaust Ductwork	
HWS	HOT WATER SUPPLY	Fire Damper	
HWR	HOT WATER RETURN	Smoke Damper	
HWRR	HOT WATER REVERSE RETURN	Combination Fire & Smoke Damper	
CWS	CONDENSER WATER SUPPLY	Supply Diffuser & Air Quantity (Indicates 4-Way Blow)	
CWR	CONDENSER WATER RETURN	Supply Diffuser & Air Quantity (Indicates 3-Way Blow/2-Way Blow)	
STM.(PSI)	STEAM SUPPLY PIPING AND ITS PRESSURE	Return Air Grille & Air Quantity	
C.R.	STEAM CONDENSATE RETURN	Exhaust Air Grille & Air Quantity	
P.C.R.	PUMPED STEAM CONDENSATE RETURN	Reducer/Transition	
D	DRAIN LINE	Steam Humidifier	
RS	REFRIGERANT SUCTION	Thermostat (Adjustable)	
RL	REFRIGERANT LIQUID	Thermostat (Concealed / Key Oper.)	
FTS	FINNED TUBE SUPPLY	Humidistat	
FTR	FINNED TUBE RETURN	Rise in Ductwork	
FOS	FUEL OIL SUPPLY	Drop in Duct	
FOR	FUEL OIL RETURN	Conical Tee	
V	EQUIPMENT VENT	Bellmouth Connection	
E.O.M.	END OF MAIN DRIP	Duct with Internal Sound Liner	
P.R.V.	PRESSURE REDUCING VALVE	Splitter Damper	
ST	STEAM TRAP	Reheat Coil	
BV	BALL VALVE	Electric Reheat Box, Clearance Space and Identification	
GV	GATE VALVE	Square Elbow with Turning Vanes	
GLV	GLOBE VALVE	M.B.D. Manual Balance Damper	
BV	BUTTERFLY VALVE	A.T.C. Automatic Temp. Control Panel	
CV	CONTROL VALVE	A.D. Access Door	
SH	STRAINER WITH HOSE END DRAIN CONNECTION	M.L. Marine Light	
SBV	STRAINER AND BLOWDOWN VALVE	Duct Mounted Smoke Detector	
B8G	B8G CIRCUIT SETTER OR EQUAL BALANCING VALVE	Duct Mounted Static Pressure Controller	
FCV	FLUG COCK (BALANCING VALVE)	A.F.F. Above Finished Floor	
U	UNION	A.F.R. Above Finished Roof	
CF	COMPANION FLANGE	Manual Balancing Damper	
CV	CHECK VALVE	Pressure Indicator (Gauge)	
G	GUIDE	Thermometer	
X	ANCHOR	Motorized Valve	
G	GAUGE & GAUGE COCK		

HVAC GENERAL NOTES:

- DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE APPROXIMATE ROUTING OF PIPING AND DUCTWORK. THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES TO AVOID CONFLICTS AND DELAYS. MINOR OFFSETS AND ADJUSTMENTS SHALL BE PROVIDED WHERE REQUIRED AT NO ADDITIONAL COST TO THE OWNER.
- COORDINATE LOCATIONS OF EQUIPMENT WITH OTHER TRADES, AND WITH STRUCTURAL AND ARCHITECTURAL ELEMENTS.
- ALL EXHAUST FANS, SUPPLY FANS, DAMPERS, AND RELIEF VENTS SHALL BE MOUNTED 18" BELOW CEILING HEIGHT. COORDINATE FINAL HEIGHT LOCATIONS WITH OWNER/PRP.
- DUCT DIMENSIONS INDICATED ON THE DRAWINGS ARE NET AIRSIDE DIMENSIONS.
- DUCTWORK SHALL BE FABRICATED OF FIBERGLASS (UNLESS NOTED OTHERWISE) AND INSTALLED IN ACCORDANCE WITH SMACNA STANDARDS. SEAL ALL DUCTS, JOINTS, AND SEAMS IN DUCTWORK TO INSURE AGAINST LEAKAGE.
- PENETRATIONS OF THE WALLS AND FLOORS SHALL BE FLASHED WITH ALUMINUM SHEET ANGLES AND SEALED WITH INSULATING FOAM PER SMACNA ARCHITECTURAL SHEETMETAL DETAILS STANDARDS.
- ELECTRIC MOTORS FOR EQUIPMENT SHALL BE TEFC, SELECTED FOR NON-OVERLOADING OPERATION. MOTORS SHALL NOT OPERATE IN THEIR SERVICE FACTOR.
- GRILLES AND DIFFUSERS SHALL BE TITUS OR EQUAL ALUMINUM SIDE WALL GRILLES. RETURN REGISTER SHALL BE TITUS OR EQUAL ALUMINUM LOUVERED SURFACE MOUNT. PROVIDE STANDARD WHITE PAINTED FACE.

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Professional Engineer
 No. 11300603
 STATE OF INDIANA
 Signature: [Signature]
 Date: 03/22/2024

**CITY OF ROCKPORT
 SPENCER COUNTY, INDIANA**
**WASTEWATER LTCP PHASE 4
 PROJECT**
DIVISION "A" - WWTP

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FAN SCHEDULE

GENERAL NOTES:		ABBREVIATIONS:	
(1) - HIGH EFFICIENCY MOTOR	(3) - UPBLAST DISCHARGE	PRE - POWER ROOF EXHAUST FAN	SWSI - SINGLE WIDTH, SINGLE INLET
(2) - INCL. WEIGHT OF INERTIA BASE	(4) - TOP HORIZONTAL DISCHARGE	PRS - POWER ROOF SUPPLY FAN	DWDI - DOUBLE WIDTH, DOUBLE INLET
UNIT ACCESSORIES:		11 - SMOKE DETECTOR	16 - DISCHARGE MIN. 70" A.F.R.
1 - INLET SCREEN	6 - MOTORIZED OUTLET DAMPERS	12 - 24" HIGH ROOF CURB	17 - U.L. 762 LISTED
2 - MOTORIZED INLET VANES	7 - OUTLET GRAVITY DAMPERS	13 - ACCESS DOOR & DRAIN	18 - EXPLOSION PROOF MOTOR
3 - MOTORIZED INLET DAMPERS	8 - INERTIA BASE	14 - 2" WASHABLE FILTERS	19 - THERMAL OVERLOAD PROTECTION
4 - INLET GRAVITY DAMPERS	9 - SPRING ISOLATORS	15 - FAN SAFETY CAGE/WALL SLEEVE	20 - SOLID STATE SPEED CONTROLLER
5 - OUTLET SCREEN	10 - BELT GUARD	21 - WEATHERPROOF HOUSING/TEFC	22 - 2 SPEED, 2 WINDING MOTOR
		23 - 3Φ DISC. SWITCH IN HOUSING	24 - PRE-WIRED DISC. SWITCH
		25 - DOOR LIMIT SWITCH	E - HAND/OFF/AUTO SWITCH/PILOT LIGHT/120V XFMR

UNIT ID	SYSTEM	TYPE	MANUFACTURER	MODEL NO.	CFM	S.P.	MAX. SONES	ROOF/WALL OPENING	UNIT WEIGHT (LBS)	FAN ACCESSORIES	MOTOR (1)		STARTER			NOTES:	
											MIN. H.P.	RPM	V/Hz	LOCATION	TYPE		DISC. TYPE
EF-1	CHEMICAL BUILDING	PWE	GREENHECK (OR EQUAL)	CUE-120-VG	800	0.30"	6.0	15'X15'	47	4.5	1/4	911	120/1/60				NOTE 1:

NOTE 1: ENTIRE UNIT INCLUDING FAN CURB SHALL BE COATED WITH HI-PROZ (OR EQUIVALENT PERFORMANCE) COATING FOR CORROSION PROTECTION.

ELECTRIC UNIT HEATER SCHEDULE

MARK	LOCATION	CONFIGURATION	AIRFLOW		FAN DATA				HEATER DATA				ELECTRICAL DATA			ACCESSORIES		FILTER DATA		MANUFACTURER WITH MODEL NUMBER (OR EQUAL)	NOTES
			SUPPLY CFM	TYPE	VOLTAGE	RPM	FLA	KW	MBH	TEMP RISE	FLA	VOLTS	PH	MOUNTING BRACKET	DISCONNECT SWITCH	TYPE	EFF				
EUH-1	CHEMICAL BUILDING	HORIZONTAL	1450						10	34.1	22			14	480	3	YES	YES		INDEECO 234-U11N-0100U OPTION CODES C, D and T	1

- NOTES:**
- PROVIDE OPTION T, THERMOSTAT FACTORY INSTALLED AND PRE-WIRED TO THE CONTROL ENCLOSURE. 50 TO 90 DEGREE F - SET AT 65 F.

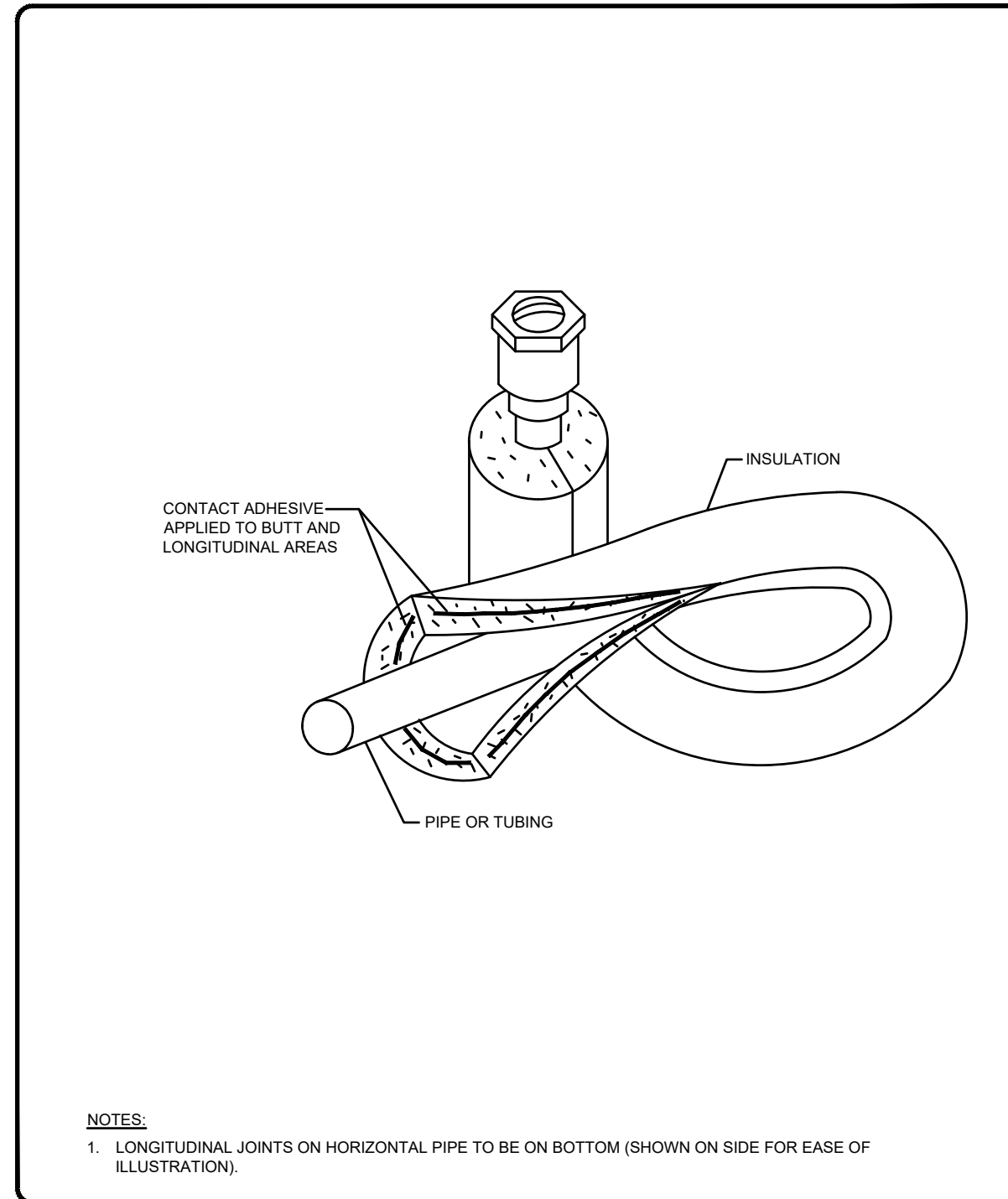
No.	Date	By	Submitted / Revision

Designed By:	Drawn By:	Checked By:
RW	RW	TLC

Issue Date: JAN. 2024
 Project No: S20107
 Scale: AS SHOWN

MECHANICAL LEGENDS AND SCHEDULES

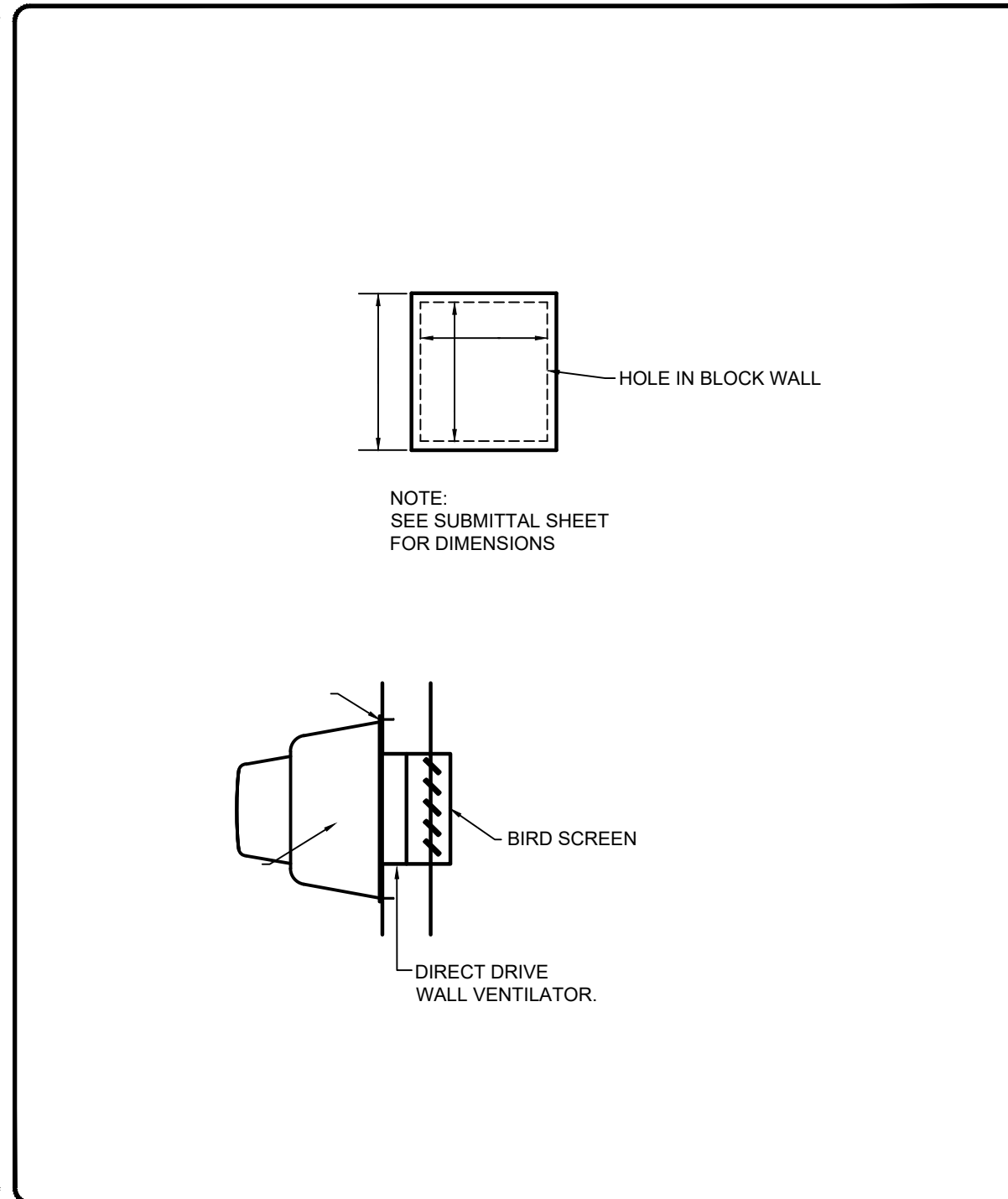
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ELASTOMERIC TUBING INSULATION

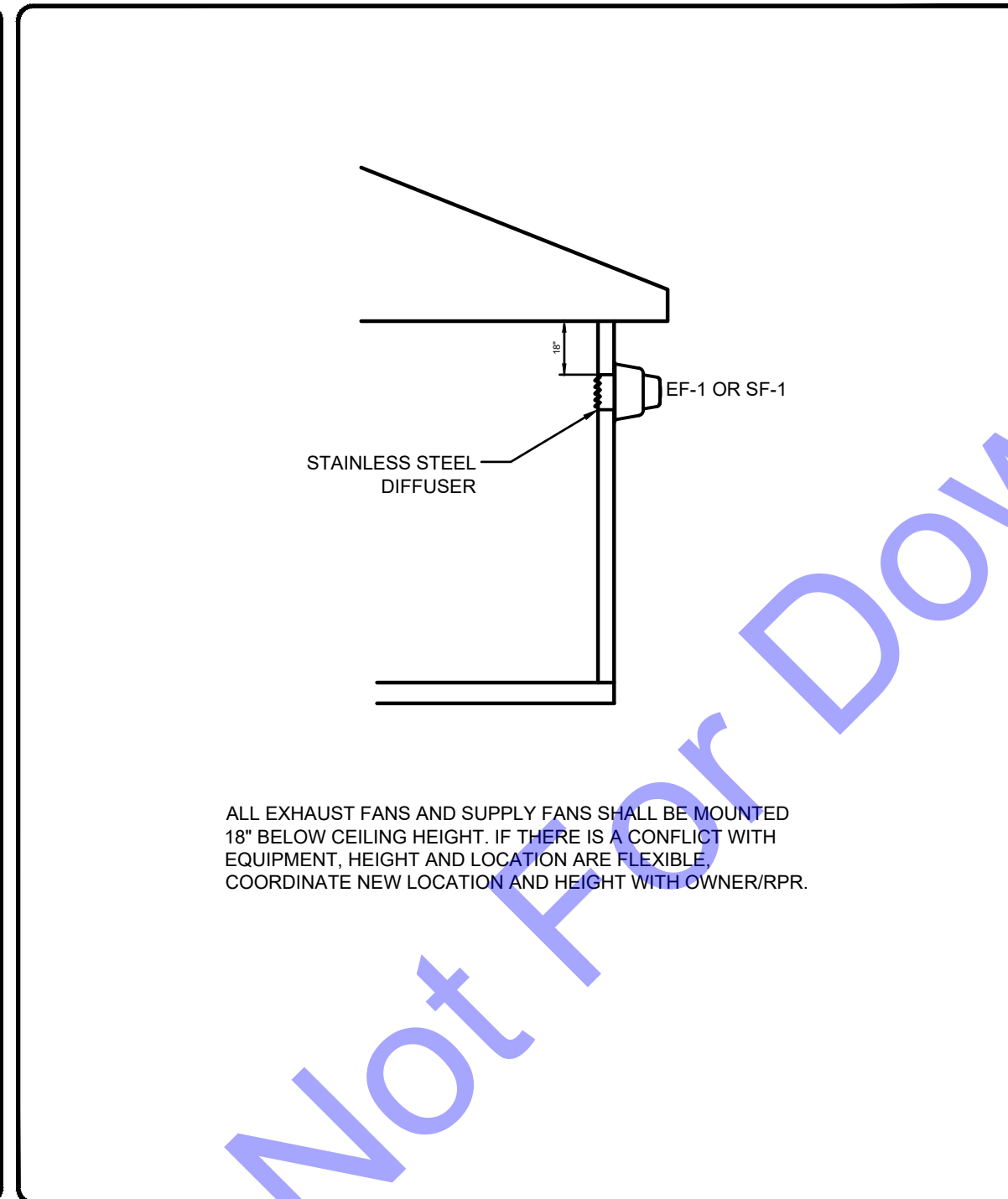
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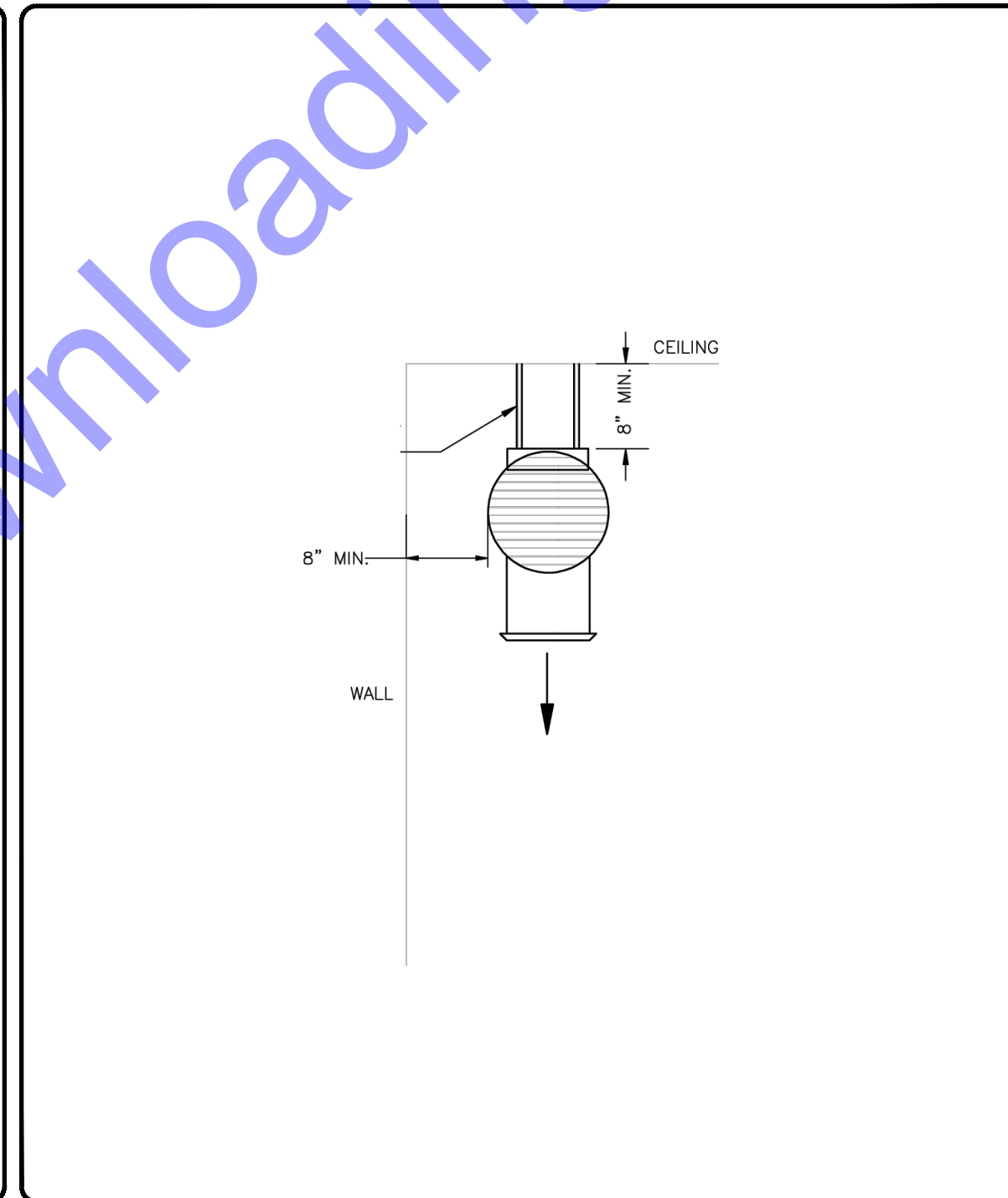
WALL FAN INSTALLATION DETAIL

WTR00 30464/E



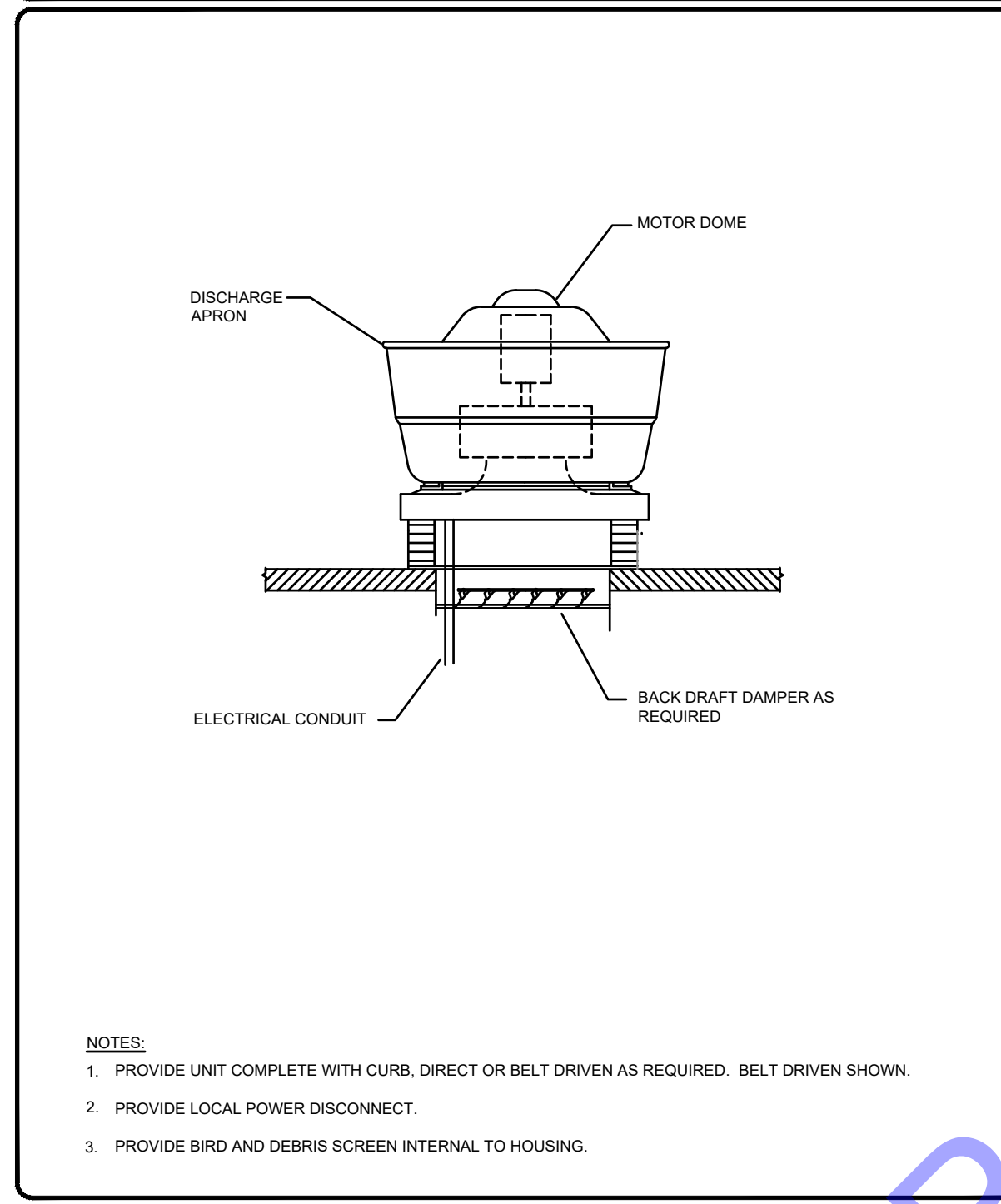
EF, SF, LOCATION HEIGHTS

NOT TO SCALE



CEILING MOUNTED WASH DOWN HEATER

NOT TO SCALE



DIRECT DRIVE UPBLAST CENTRIFUGAL

NOT TO SCALE

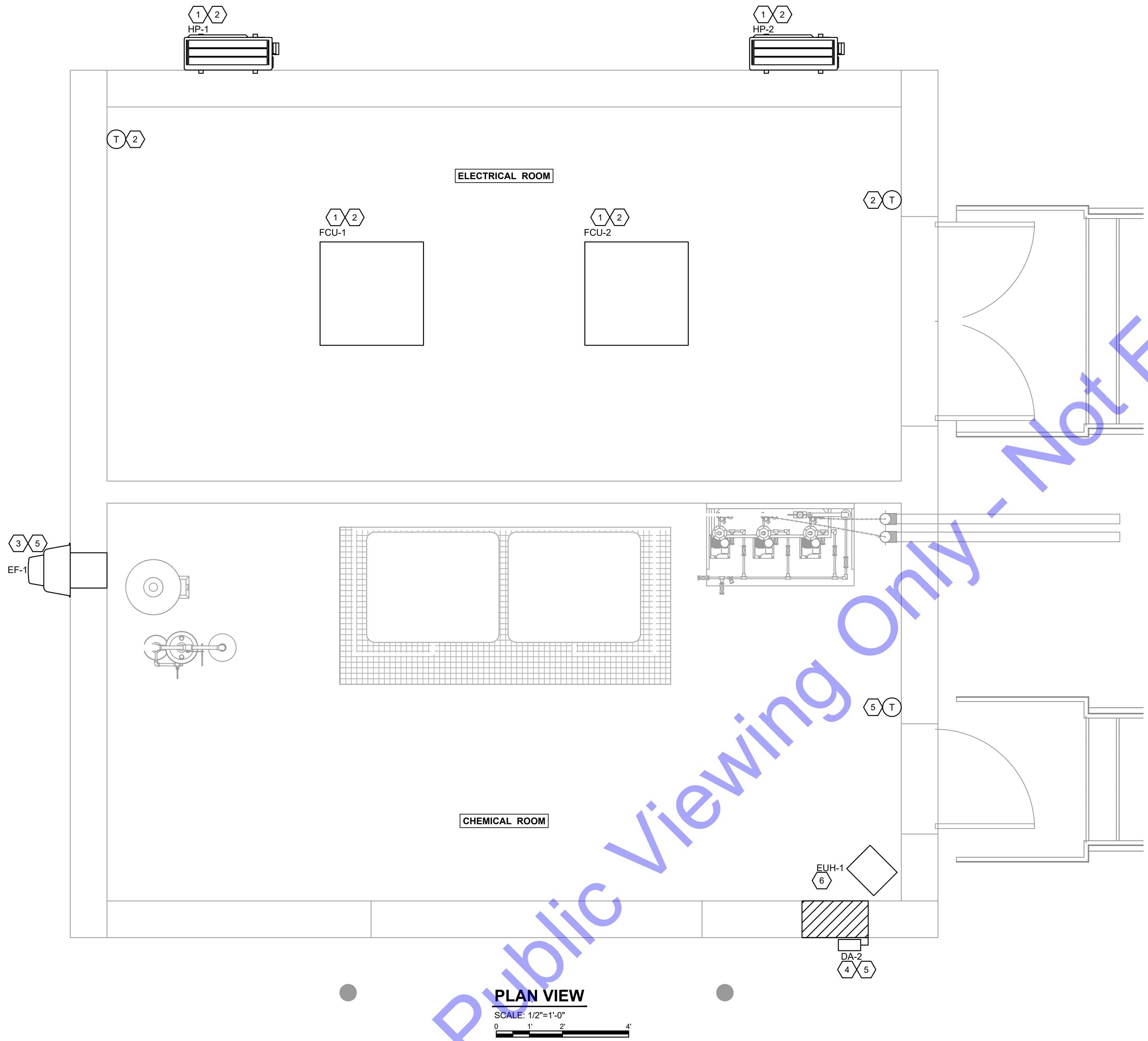
**CITY OF ROCKPORT
 SPENCER COUNTY, INDIANA
 WASTEWATER LTCP PHASE 4
 PROJECT
 DIVISION "A" - WWTP**

No.	Submittal / Revision	By	Date

Designed By: RW	Drawn By: RW	Checked By: TLC
Issue Date: JAN. 2024	Project No: S20107	Scale: AS SHOWN

MECHANICAL DETAILS

FILE: Z:\SHARED\CLIENTS\NR\ROCKPORT\031017 WASTE WATER LTCP PHASE 4B CUPW MECH-ELECTRICAL\MECH-ELECTRICAL BUILDING
 Sheet: 3/22/2024 7:22:53 AM Plotted: 4/10/2024 4:43:57 PM. Current User: Iain Shan Lusk@aveva.com



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MECHANICAL NOTES:

- 1 THE CONTRACTOR SHALL FURNISH AND INSTALL FAN COIL AND HEAT PUMP SYSTEM. MOUNT FAN COILS (FCU-1&2) ON WALL WHERE SHOWN AND HEAT PUMPS (HP-1&2) ABOVE SNOW LEVEL. FURNISH AND INSTALL FACTORY REFRIGERANT LINES. PIPE DRAIN THROUGH ELECTRICAL ROOM TO 1" ABOVE GRADE TO GRASS OR GRAVEL LOCATION. DRAIN LINE SHALL BE 1/2" SCHEDULE 40 PVC. REFER TO MECHANICAL SCHEDULES FOR FAN COIL AND HEAT PUMP SPECIFICATIONS.
- 2 THE CONTRACTOR SHALL FURNISH AND INSTALL LOCKABLE HEAT/COOL THERMOSTATS HONEYWELL (OR EQUAL) WITH AUTOMATIC SWITCHOVER BETWEEN HEATING AND COOLING SETTING FOR FCU-2 SHALL BE TWO DEGREES ABOVE SETTING FOR FCU-1. ALL CONTROL WIRING SHALL BE INSTALLED IN CONDUIT.
- 3 THE CONTRACTOR SHALL FURNISH AND INSTALL GREENHECK (OR EQUAL) EXHAUST FANS (EF-1). EXHAUST FANS SHALL OPERATE FROM THERMOSTAT IN AUTOMATIC OPERATION AND SHALL OPERATE FROM A MANUAL SWITCH FOR MANUAL OPERATION. REFER TO MECHANICAL SCHEDULES FOR EXHAUST FAN SPECIFICATIONS. INSTALL EXHAUST FAN 18" BELOW CEILING.
- 4 THE CONTRACTOR SHALL FURNISH AND INSTALL GREENHECK EAD-635 24" X 28" MOTORIZED INTAKE DAMPER (OR EQUAL) WITH BIRD SCREEN. DAMPER ACTUATOR (DA-1) SHALL BE BELIMO (OR EQUAL). MOUNT INTAKE LOUVER/DAMPER 18" ABOVE FINISHED GRADE.
- 5 THE CONTRACTOR SHALL FURNISH AND INSTALL NEMA 4X THERMOSTAT, (HONEYWELL OR EQUAL). WIRE EXHAUST FAN EF-1 TO START ON A TEMPERATURE RISE ABOVE SET-POINT. INTERLOCK DAMPER DA-1 TO OPEN WITH EXHAUST FAN OPERATION. DA-1 SHALL OPEN 90% BEFORE EXHAUST FANS START. PROVIDE ALL CONDUIT, WIRING AND RELAYS REQUIRED FOR PROPER OPERATION. THERMOSTAT SHALL HAVE LOCKABLE SET-POINT. ALL CONTROL WIRING SHALL BE INSTALLED IN CONDUIT.
- 6 THE CONTRACTOR SHALL FURNISH AND INSTALL INDEECO (OR EQUAL) ELECTRIC UNIT HEATER (EUH-1). REFER TO MECHANICAL DRAWING M0-1 FOR ELECTRIC UNIT HEATER SPECIFICATIONS.

PLAN VIEW
 SCALE: 1/2"=1'-0"
 0 1 2'

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FOR LEE CHUCK
 REGISTERED PROFESSIONAL ENGINEER
 No. 11300603
 STATE OF INDIANA
 Signature: [Signature] Date: 03/22/2024

**CITY OF ROCKPORT
 SPENCER COUNTY, INDIANA
 WASTEWATER LTCP PHASE 4
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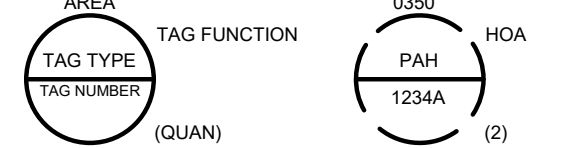
**NEW CHEMICAL FEED
 AND ELECTRICAL
 BUILDING -
 MECHANICAL PLAN**

Drawing No:
M1-0
 Sheet: 157 OF 177

FILE Z:\SHARED\CLIENTS\2600000\03107\WASTEWATER\TICP\PHASE 4\03\04\MECH\ELECTRICAL\DRAWINGS\WTFP\WTFP.DWG
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PROCESS AND INSTRUMENTATION DIAGRAM LEGEND

INSTRUMENT TAG IDENTIFICATION



COMPONENT DESIGNATOR

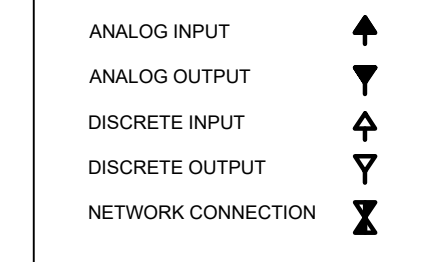
AREA 0350: BUILDING OR PROCESS AREA NUMBER
TAG TYPE P: FIRST LETTER, SEE ISA TABLE BELOW
H: SUCCEEDING LETTERS, SEE ISA TABLE BELOW
TAG NUMBER 12: P&ID NUMBER
4: EQUIPMENT NUMBER
A: DEVICE LETTER IF MULTIPLE DEVICES

TAG FUNCTION HWA: TAG FUNCTION ABBREVIATION, SEE LISTING AT RIGHT

(QUANTITY) (2): TOTAL NUMBER OF DEVICES WHERE MORE THAN ONE DEVICE IS REQUIRED. DEVICE NUMBERS ARE SEQUENTIAL BEGINNING WITH THE TAG NUMBER SHOWN. IF QUANTITY IS NOT SHOWN, THEN ONE DEVICE ONLY IS REQUIRED.

COMPONENT DESIGNATOR LISTING AT RIGHT

PLC POINT TYPE

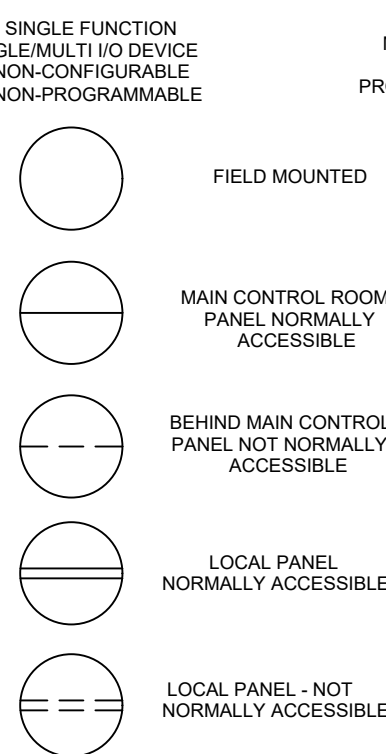


TAG FUNCTION ABBREVIATIONS

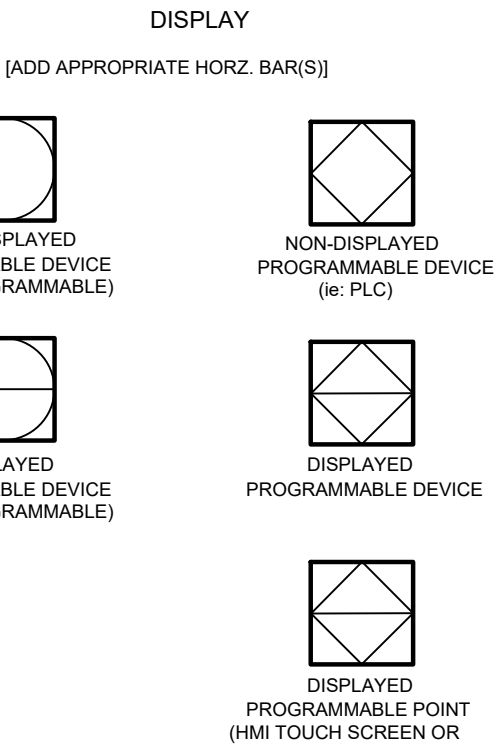
ALT ALTERNATE	O OPEN
C CLOSED(C)	OA OFF-AUTOMATIC
CM COMPUTER-MANUAL	OCA OPEN-CLOSE-AUTOMATIC(MAINTAINED CONTACT)
DIFF DIFFERENCE OR DIFFERENTIAL	OC OPEN-CLOSE(D) MAINTAINED CONTACT
DO DISSOLVED OXYGEN	OSC OPEN-STOP-CLOSE(MOMENTARY CONTACT SPRING RETURN TO CENTER POSITION)
F FAIL	00 ON-OFF(MAINTAINED CONTACT)
F(X) CHARACTERIZED	OOA ON-OFF-AUTOMATIC(MAINTAINED CONTACT)
FOR FORWARD-STOP(OFF)-REVERSE(MAINTAINED CONTACT)	OOR ON-OFF-REMOTE(MAINTAINED CONTACT)
FBR FORWARD-STOP-REVERSE(MOMENTARY CONTACT)	R RUN
HWA HAND-OFF-AUTOMATIC(MAINTAINED CONTACT)	SBL SLUDGE BLANKET INTERFACE LEVEL
HOR HAND-OFF-REMOTE(MAINTAINED CONTACT)	SP SPEED POT
II CURRENT TO PNEUMATIC	SQRT SQUARE ROOT
LL LEAD-LAG(MAINTAINED CONTACT)	SS START-STOP
LOE LOSS OF ECHO(ULTRASONIC SENSOR FAILURE)	SSA START-STOP-AUTOMATIC
LOR LOCAL-OFF-REMOTE(MAINTAINED CONTACT)	SBL START-STOP-LOCK (LOCKABLE IN 'STOP' POSITION, MOMENTARY CONTACT)
LOS LOCKOUT STOP/LOCKABLE IN 'STOP' POSITION MOMENTARY CONTACT	SUM SUMMATION
LUR LOCAL-REMOTE(MAINTAINED CONTACT)	VB VIBRATION
MA MANUAL-AUTOMATIC(MAINTAINED CONTACT)	X MULTIPLY
MOA MANUAL-OFF-AUTOMATIC(MAINTAINED CONTACT)	

TAG SYMBOLS

HORIZONTAL BAR SYMBOLS FOR PHYSICAL MOUNTING OF DEVICE



CONTROL AND I/O DEVICES DISPLAY



INSTRUMENT SOCIETY OF AMERICA TABLE

LETTER	FIRST LETTER(S)	MODIFIER	READOUT OR PASSIVE FUNCTION	OUTPUT FUNCTION	MODIFIER
A	ANALYSIS		ALARMING (LOGGING)	ANNUNCIATE	
B	BURNER COMBUSTION		USERS CHOICE(*)	USERS CHOICE(*)	
C	USERS CHOICE(*)		CONTROL	CLOSE	
D	USERS CHOICE(*)	DIFFERENTIAL			
E	VOLTAGE		PRIMARY ELEMENT		
F	FLOW RATE	RATIO		FEEDBACK	
G	USERS CHOICE(*)		GLASS		
H	HAND (MANUAL)			HIGH	
I	CURRENT		INDICATE		
J	POWER	SCAN			
K	TIME OR SCHEDULE	TIME RATE OF CHANGE	KEYPAD(DATA ENTRY)	CONTROL STATION	
L	LEVEL		LIGHT(PILOT)		LOW
M	MOTOR	MOMENTARY	USERS CHOICE(*)	USERS CHOICE(*)	MONITORING
N	USERS CHOICE(*)		ORIFICE	USERS CHOICE(*)	
O	USERS CHOICE(*)		POINT TEST CONNECTION		
P	PRESSURE OR VACUUM	INTEGRATE			
Q	QUANTITY		RECORD, TREND, LOG		
R	RADIATION	SAFETY		SWITCH	
S	SPEED OR FREQUENCY			TRANSIT	
T	TEMPERATURE			VALUE	
U	UNIVERSAL(MULTIVARIABLE)*		MULTIFUNCTION(*)	MULTIFUNCTION(*)	MULTIFUNCTION(*)
V	VIBRATION		WELL		
X	WEIGHT, FORCE, TORQUE	X AXIS		UNCLASSIFIED(*)	UNCLASSIFIED(*)
Y	UNCLASSIFIED(*)	Y AXIS		UNCLASSIFIED(*)	UNCLASSIFIED(*)
Z	EVENT STATE	Z AXIS		RELAYOR COMPUTER*)	
	POSITION, DIMENSION			DRIVE, AGITATE OR UNCLASSIFIED) RELAY CONTROL ELEMENT	

(*) WHEN USED, EXPLANATION IS SHOWN ADJACENT TO INSTRUMENT SYMBOL

SPECIAL CASES:
ETM - ELAPSED TIME METER
JBX - JUNCTION BOX
NDX - INDEX
MS - MOTOR STARTER
MOR - MOTOR OVERLOAD RELAY
MPR - MOTOR PROTECTION RELAY

CONDUIT NOTES

PVC SCHEDULE 40 BELOW GRADE.
RIGID ALUMINUM OR PVC COATED RGS CONDUIT ABOVE GRADE OUTDOORS.
RIGID ALUMINUM OR PVC COATED RGS CONDUIT IN CLASSIFIED AND CORROSIVE SPACES.
NO CONDUIT SHALL BE RUN ON TOP OF A DECK, ON A WALKWAY, OR IN AN AREA THAT MAY POSE A TRIP HAZARD. NO CONDUIT SHALL BE RUN ABOVE A DECK, ABOVE A WALKWAY, OR IN AN AREA THAT IS COMMONLY TRAVELED. ALL CONDUIT IN SUCH AREAS SHALL BE COORDINATED WITH THE CONTRACTOR AND SHALL BE RUN BELOW GRADE OR IN THE CONCRETE DECKING OR PAD. CONDUIT RUN IN CONCRETE DECKING OR PAD SHALL BE AVOIDED WHEN POSSIBLE. IF CONDUIT IS TO BE ROUTED IN A STRUCTURAL CONCRETE DECK, PAD, WALL, ETC. IT SHALL BE COORDINATED AND APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. CONDUIT RUN IN CONCRETE CAN IMPACT THE STRUCTURAL INTEGRITY OF CONCRETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFORM TO ANY REQUIREMENTS REQUIRED OF THE STRUCTURAL ENGINEER TO ACCOMMODATE THE INTEGRITY OF THE INSTALLATION AT NO COST TO THE OWNER. FOR A CONDUIT EMBEDDED IN SOLUTION TO BE CONSIDERED IT MUST BE THE ONLY REASONABLE SOLUTION. ALL PROPOSED INSTALLATIONS MUST COMPLY WITH ACI 318 AND BE ENGINEER APPROVED.
ALL UNDERGROUND CONDUITS SHALL BE SEALED AT BOTH ENDS.
NO CONDUIT PENETRATIONS ON THE TOP OF ANY OUTDOOR PANELS/ENCLOSURES.

CONTROL WIRING REQUIREMENTS

EACH ANALOG INPUT REQUIRES AN 18/2 TWISTED SHIELDED PAIR IN 3/4" CONDUIT UNLESS NOTED OTHERWISE.
EACH ANALOG OUTPUT REQUIRES AN 18/2 TWISTED SHIELDED PAIR IN 3/4" CONDUIT UNLESS NOTED OTHERWISE.
EACH DISCRETE INPUT REQUIRES 2 #14's IN 3/4" CONDUIT UNLESS NOTED OTHERWISE.
EACH DISCRETE OUTPUT REQUIRES 2 #14's IN 3/4" CONDUIT UNLESS NOTED OTHERWISE.
CONTROL WIRING OF THE SAME TYPE MAY BE COMBINED INTO THE SAME CONDUIT. EXAMPLES: TWO 4-20MA ANALOG SIGNALS MAY BE COMBINED, TWO 24VDC DISCRETE SIGNALS MAY BE COMBINED, AND TWO 120VAC DISCRETE SIGNALS MAY BE COMBINED.
NOTE: INSTRUMENTS AND CABLE SHALL BE AS REQUIRED BY THE INSTRUMENT MANUFACTURER.

INSTRUMENT POWER

INSTRUMENTS REQUIRING 120 VAC:
1. MAGNETIC FLOW METERS
2. TURBIDITY TRANSMITTERS
3. pH TRANSMITTERS
4. ORP TRANSMITTERS
5. DO TRANSMITTERS
6. ULTRASONIC LEVEL TRANSMITTERS
7. ULTRASONIC FLOW TRANSMITTERS
8. INFLUENT AND EFFLUENT SAMPLERS
NOTE: THIS LIST IS PROVIDED AS A REFERENCE AND IS NOT ALL INCLUSIVE. COORDINATE WITH THE GENERAL CONTRACTOR AND THE EQUIPMENT SUPPLIERS FOR DETAILED WIRING REQUIREMENTS OF INSTRUMENTS, SENSORS, AND EQUIPMENT.

ELECTRICAL GENERAL NOTES

- (GENERAL NOTES APPLICABLE TO ALL ELECTRICAL SHEETS)
- 60. CONTRACTOR SHALL EXAMINE NOT ONLY PLANS AND SPECIFICATIONS FOR ELECTRICAL AND INSTRUMENTATION, BUT PLANS AND SPECIFICATIONS FOR OTHER RELATED SECTIONS. VISIT THE SITE TO BECOME ACQUAINTED WITH ALL PROJECT CONDITIONS INCLUDING EXISTING CONDITIONS. EXECUTION OF CONTRACT IS EVIDENCE THAT THE CONTRACTOR HAS EXAMINED ALL DRAWINGS AND SPECIFICATIONS AND THAT ALL CONDITIONS OF INSTALLING THE WORK IN THIS SECTION ARE VERIFIED. LATE CLAIMS FOR LABOR AND MATERIALS REQUIRED DUE TO DIFFICULTIES ENCOUNTERED, WHICH COULD HAVE BEEN FORESEEN HAD EXAMINATIONS BEEN MADE WILL NOT BE RECOGNIZED.
- 61. THE DRAWINGS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO INCLUDE EVERY DETAIL OF REQUIRED CONSTRUCTION, EQUIPMENT, AND MATERIALS. PROVIDE ALL MATERIALS AND WORK NOT SPECIFICALLY MENTIONED OR SHOWN ON THE DRAWINGS BUT WHICH ARE NECESSARY TO FULLY COMPLETE THE WORK.
- 62. WHEN SUBSTITUTING OTHER EQUIPMENT, MATERIALS, AND PRODUCTS THAN SPECIFIED IN THE CONTRACT DOCUMENTS, INCLUDE IN PRICING ALL COSTS FOR OTHER DESIGN CHANGES TO THE PROJECT (ALL DIVISIONS WHICH WILL BE REGULARLY FROM USE OF THE SUBSTITUTED ITEMS).
- 63. REVIEW THE CONTRACT DOCUMENTS OF OTHER DIVISIONS, AND COORDINATE ELECTRICAL AND CONTROL WORK WITH THE WORK OF OTHER DISCIPLINES TO AVOID CONFLICTS AND INTERFERENCE.
- 64. UPON COMPLETION OF THE WORK REQUIRED UNDER THIS CONTRACT, PROVIDE TYPED UPDATED DIRECTORY WITHIN FOUR (4) EACH AFFECTED PANELBOARD. LEAVE "SPARE" BREAKERS IN "OFF" POSITION.
- 65. ALL MOUNTING HEIGHTS INDICATED ON DRAWINGS ARE TO CENTERLINE, UNLESS OTHERWISE NOTED.
- 66. PROVIDE LIGHTING FIXTURES COMPATIBLE WITH CEILING CONSTRUCTION. COORDINATE WITH ARCHITECTURAL ROOM FINISH SCHEDULES.
- 67. IN AREAS HAVING FINISHED CEILINGS, LOCATE CEILING-MOUNTED ELECTRICAL DEVICES AND SYSTEMS ACCORDING TO ARCHITECTURAL REFLECTED CEILING PLAN. DO NOT INSTALL CEILING-MOUNTED SMOKE DETECTORS WITHIN 4 FEET OF HVAC SUPPLY DIFFUSERS.
- 68. IN ELECTRICAL AND MECHANICAL EQUIPMENT SPACES, COORDINATE EXACT LOCATIONS OF LIGHTING FIXTURES WITH CONDUIT, PIPING, STRUCTURE, SUPPORTS, AND OTHER OBSTRUCTIONS. LOCATE FIXTURES SUCH THAT DIALS, GAUGES, METERS, ETC. ARE PROPERLY ILLUMINATED.
- 69. DO NOT USE ANY LIGHTING FIXTURE AS A RACEWAY FOR CONDUCTORS NOT SERVING THAT PARTICULAR FIXTURE.
- 70. CONNECT BATTERY-OPERATED EMERGENCY LIGHTING UNITS AND EXIT SIGNS HAVING BATTERY BACK-UP TO UNSWITCHED LEG OF LOCAL LIGHTING CIRCUIT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND NECS SUCH THAT FAILURE OF CIRCUIT TRANSFERS UNIT FROM NORMAL TO EMERGENCY MODE, CAUSING LAMPS TO RE-ENERGIZE.
- 71. DO NOT INSTALL OUTLET BOXES BACK-TO-BACK IN NON-RATED PARTITIONS. OFFSET AND SEAL, SIMILAR TO REQUIREMENTS FOR RATED PARTITIONS, TO MINIMIZE SOUND TRANSMISSION.
- 72. COORDINATE ROUTING OF ALL LARGE CONDUITS (2" DIA AND LARGER) AND PULL BOX LOCATIONS WITH GENERAL CONTRACTOR PRIOR TO INSTALLATION TO AVOID CONFLICTS AND TO GUARANTEE REQUIRED CLEARANCE AND ACCESSIBILITY OF ELECTRICAL AND OTHER SYSTEMS.
- 73. COORDINATE WITH OWNER OR OWNER'S SELECTED VENDOR PRIOR TO ROUGH-IN FOR EXACT LOCATIONS OF SPECIAL PURPOSE OUTLETS DEDICATED TO SPECIFIC EQUIPMENT. VERIFY REQUIRED NEMA CONFIGURATION OF ALL SUCH OUTLETS.
- 74. PROVIDE APPROPRIATE PULL WIRE IN EACH EMPTY SYSTEMS CONDUIT INCLUDED IN THIS PROJECT.
- 75. INCLUDE GREEN-INSULATED GROUNDING CONDUCTOR SIZED PER 2002 NEC TABLE 250-122 WITH ALL BRANCH CIRCUIT CONDUCTORS SERVING LIGHTING FIXTURES, RECEPTACLES, MECHANICAL OR OTHER DEVICES INSTALLED AT OR BELOW 8'-0".
- 76. MATCH A.I.C. RATINGS AND OTHER CHARACTERISTICS OF EXISTING DEVICES IN PANELBOARD WHEN ADDING BREAKERS TO EXISTING PANELBOARDS.
- 77. ALL WORK SHALL BE IN CONFORMANCE WITH THE NATIONAL ELECTRICAL CODE - LATEST EDITION ADOPTED BY INDIANA, THE INDIANA CODE AMENDMENT, LOCAL MUNICIPAL CODE, AND THE AUTHORITIES HAVING JURISDICTION.
- 78. ALL CONNECTIONS TO EQUIPMENT SUBJECT TO MOVEMENT OR VIBRATION SHALL BE LIQUID TIGHT FLEXIBLE METAL CONDUIT, NOT LESS THAN 1/2" IN LENGTH, NOR GREATER THAN 36" IN LENGTH.
- 79. ALL CONDUIT PENETRATIONS SHALL BE SEALED WITH APPROPRIATE CONDUIT SEALING MATERIAL.
- 80. ALL CABLE SIZES SHALL UTILIZE COPPER CONDUCTORS.
- 81. FIELD VERIFY LOCATIONS OF BUILDING EXPANSION JOINTS WHEN ROUTING CONDUIT. ALL CONDUITS CROSSING EXPANSION JOINTS SHALL BE INSTALLED WITH THE EXPANSION FITTINGS. EXPANSION FITTINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE NEC AND MANUFACTURER'S WRITTEN RECOMMENDATIONS.
- 82. FEEDERS FROM PANELBOARDS BACK TO MAIN SWITCHBOARD, BETWEEN AUTO TRANSFER SWITCHES AND THEIR SOURCE LOADS, BETWEEN DRY TRANSFORMER FEEDERS AND THEIR SOURCE LOADS ARE NOT INDICATED. FEEDERS ARE TO BE PROVIDED AND SHALL BE SIZED AS INDICATED ON THE LINE DIAGRAM.
- 823. HOMERUNS SHALL NOT BE COMBINED IN A RACEWAY UNLESS SHOWN ON THE CONTRACT DRAWINGS. SINGLE PHASE BRANCH CIRCUIT HOMERUNS MAY BE COMBINED AT THE CONTRACTOR'S DISCRETION NOT GREATER THAN (3) PHASE CONDUCTORS, NEUTRAL CONDUCTORS, AND A GROUNDING CONDUCTOR.
- 824. EACH SINGLE PHASE BRANCH CONDUCTOR SHALL HAVE A DEDICATED NEUTRAL BACK TO THE PANEL.
- 825. ALL PENETRATIONS BELOW GRADE SHALL USE LINK SEALS.
- 826. WHERE LOW VOLTAGE (CONTROL) CABLING IS ALLOWED TO BE INSTALLED WITHOUT A RACEWAY, IT SHALL BE SUPPORTED NOT EXCEEDING INTERVALS OF 48", AND NOT MORE THAN 6" FROM THE CABINET'S, BOXES, FITTINGS, OUTLETS, RACKS, FRAMES AND TERMINALS.
- 827. ALL MOUNTING HARDWARE INCLUDING NUTS, BOLTS, SCREWS, WASHERS, ETC. SHALL BE STAINLESS STEEL.
- 828. MOUNT JUNCTION BOXES AND DISCONNECT SWITCHES ON STAINLESS STEEL UNISUIT.
- 829. ALL UNISUIT, MOUNTING BRACKETS AND SUPPORTING STRUCTURES SHALL BE STAINLESS STEEL.
- 830. DO NOT MIX CONTROL AND POWER CONDUCTORS IN THE SAME CONDUIT. DO NOT MIX DISCRETE AND ANALOG CONTROL CONDUCTORS IN THE SAME CONDUIT.
- 831. ADJUSTABLE SPEED DRIVES (ASD) LINE AND LOAD WIRE SHALL BE RUN IN SEPARATE RACEWAYS.
- 832. CONTRACTOR SHALL COORDINATE WITH HEAT TRACE MANUFACTURER DURING BIDDING AND CONSTRUCTION AND SHALL PROVIDE ALL CONTROL, WIRING, AND CIRCUITS AS REQUIRED. HEAT TRACE SHALL BE PROVIDED/INSTALLED COMPLETE. ALL HEAT TRACE IS REQUIRED TO BE GFI PROTECTED.

PUMP AND METER LEGEND

SYMBOL	DESCRIPTION
	MAGNETIC FLOW METER
	SONIC FLOW METER
	CENTRIFUGAL PUMP
	LOBE PUMP
	PERISTALTIC PUMP
	SUBMERSIBLE PUMP
	GRINDER PUMP

LIGHTING LEGEND

SYMBOL	DESCRIPTION
	FIXTURE WITH STANDARD BALLAST
	FIXTURE WITH STANDARD BALLAST AND EMERGENCY BALLAST

LEGEND

SYMBOL	DESCRIPTION	MTG HGT AFF TO CL, UNLESS NOTED
	OPEN LIGHTING FIXTURE SYMBOL DENOTING FIXTURES CONNECTED TO NORMAL POWER. FIXTURE TYPE DETERMINES MOUNTING.	----
	SINGLE DIAGONAL LIGHTING FIXTURE SYMBOL DENOTING FIXTURES CONNECTED TO CRITICAL OR EMERGENCY POWER. FIXTURE TYPE DETERMINES MOUNTING.	----
	DOUBLE DIAGONAL LIGHTING FIXTURE SYMBOL DENOTING FIXTURES CONNECTED TO LIFE SAFETY BRANCH (OR EMERGENCY POWER). FIXTURE TYPE DETERMINES MOUNTING.	----
	BATTERY POWERED EMERGENCY LIGHTING UNIT	7'-6"
	EXIT SIGN. ARROWS DENOTE DIRECTION INDICATING CHEVRON ROTATES, SHADING DENOTES FACE(S) ORIENTATION.	----
	WALL WASH OR OTHER DIRECTIONALLY ADJUSTABLE FIXTURE. ORIENTATION DENOTES ORIENTATION. TYPE DETERMINES MOUNTING.	----
	TRACK LIGHTING FIXTURE. TYPE DETERMINES MOUNTING.	----
	POLE-MOUNTED SITE LIGHTING FIXTURE. TYPE DETERMINES MOUNTING.	----
	FLOOD LIGHTING FIXTURE. TYPE DETERMINES MOUNTING.	----
	PHOTO-CELL	----
	ALL FIXTURES IN THIS SPACE SHALL BE SAME TYPE INDICATED, U.O.N.	----
	SINGLE-POLE TOGGLE SWITCH	3'-10"
	SINGLE-POLE TOGGLE SWITCH. SLASH DENOTES ESSENTIAL POWER SYSTEM CONNECTION - TYPICAL FOR ALL SWITCHES.	3'-10"
	DUAL TECHNOLOGY WALL MNTD OCCUPANCY SENSOR WITH MANUAL OVERRIDE SWITCH	3'-10"
	SINGLE-POLE REMOTE OVERRIDE SWITCH FOR CEILING MNTD OCCUPANCY SENSOR	3'-10"
	DIMMER SWITCH	3'-10"
	THREE-WAY DIMMER SWITCH	3'-10"
	SINGLE-POLE TOGGLE SWITCH WITH PILOT LIGHT	3'-10"
	SINGLE-POLE MOTOR-RATED TOGGLE SWITCH DISCONNECT	3'-10"
	SINGLE-POLE OR DOUBLE-POLE MANUAL MOTOR STARTER WITH MELTING ALLOY ELEMENTS FOR THERMAL OVERLOAD PROTECTION	3'-10"
	OCCUPANCY SENSOR SWITCH	3'-10"
	INTERVAL TIMER RESET AND CONTROL SWITCH	3'-10"
	JOG SWITCH	3'-10"
	MUSHROOM HEAD TYPE PUSHBUTTON STATION	5'-0"
	AUTO DOOR CONTROL PUSHPLATE	----
	VARIABLE INTENSITY CONTROLLER INCLUDED WITH OWNER-FURNISHED CONTRACTOR-INSTALLED SURGICAL LIGHTING FIXTURE	5'-0"
	LOW VOLTAGE CONTROL SWITCH	3'-10"
	FACTORY SUPPLIED WALL CONTROLLER FOR LIGHTING MOUNTED LIGHT-INSTALLED BY ELECTRICAL CONTRACTOR	3'-10"
	120V DUPLEX RECEPTACLE, STANDARD MOUNTING HEIGHT	1'-6"
	120V DUPLEX RECEPTACLE, SPECIAL MOUNTING HEIGHT. INSTALL AT SAME HEIGHT AS SWITCHES IF NO HEIGHT IS INDICATED	ABOVE COUNTER
	120V QUADRUPLEX RECEPTACLE, STANDARD MOUNTING HEIGHT	1'-6"
	120V QUADRUPLEX RECEPTACLE, SPECIAL MOUNTING HEIGHT. INSTALL AT SAME HEIGHT AS SWITCHES IF NO HEIGHT IS INDICATED	ABOVE COUNTER
	120V GFCI DUPLEX RECEPTACLE, STANDARD MOUNTING HEIGHT	1'-6"
	120V GFCI DUPLEX RECEPTACLE, SPECIAL MOUNTING HEIGHT. INSTALL AT SAME HEIGHT AS SWITCHES IF NO HEIGHT IS INDICATED	ABOVE COUNTER
	120V GFCI DUPLEX RECEPTACLE, SPECIAL MOUNTING HEIGHT. INSTALL AT SAME HEIGHT AS SWITCHES IF NO HEIGHT IS INDICATED	ABOVE COUNTER
	120V GFCI DUPLEX RECEPTACLE (OTHER THAN 120V), VOLTAGE, AMP RATING, NEMA CONFIGURATION, AND MOUNTING HEIGHT AS NOTED	----
	RECEPTACLE FOR X-RAY VIEWER. VERIFY CONNECTION ROOMS WITH UNIT FURNISHED PRIOR TO ROUGH-IN	----
	120V DUPLEX RECEPTACLE IN FLUSH FLOOR-MOUNTED BOX	----
	TELE-POWER POLE	----
	HALON DUMP STATION	----
	FIRE ALARM MANUAL PULL STATION	3'-10"
	FIRE ALARM MANUAL PULL STATION, KEY-OPERATED	3'-10"
	FIRE ALARM CEILING-MOUNTED SMOKE DETECTOR	----
	FIRE ALARM CEILING-MOUNTED HEAT DETECTOR	----
	FIRE ALARM SUPPLY AIR DUCT-MOUNTED SMOKE DETECTOR	----
	FIRE ALARM RETURN AIR DUCT-MOUNTED SMOKE DETECTOR	----
	FIRE ALARM PROJECTED BEAM SMOKE DETECTOR - RECEIVER	AS NOTED
	FIRE ALARM PROJECTED BEAM SMOKE DETECTOR - TRANSMITTER	AS NOTED
	FIRE ALARM CONNECTION TO SPRINKLER SYSTEM VALVE STATUS SWITCH (TAMPER SWITCH)	----
	FIRE ALARM CONNECTION TO SPRINKLER SYSTEM WATER FLOW SWITCH	----
	FIRE ALARM AUDIO/VISUAL NOTIFICATION DEVICE-CHIME & STROBE	6'-8"
	FIRE ALARM AUDIO/VISUAL NOTIFICATION DEVICE-HORN & STROBE	6'-8"
	FIRE ALARM VISUAL ONLY NOTIFICATION DEVICE - STROBE LIGHT	6'-8"
	FIRE ALARM SPEAKER: CEILING-MOUNTED, WALL-MOUNTED	6'-8"
	FIRE ALARM HORN, WALL-MOUNTED	AS NOTED
	DUCT SMOKE DETECTOR ALARM REMOTE INDICATOR LIGHT: CEILING-MOUNTED, WALL-MOUNTED	6'-8"
	DUCT SMOKE DETECTOR ALARM REMOTE INDICATOR LIGHT AND TEST SWITCH: CEILING-MOUNTED, WALL-MOUNTED	6'-8"
	FIRE ALARM ZONE ADDRESSABLE MODULE	----
	FIRE ALARM INDIVIDUAL ADDRESSABLE MODULE	----
	FIRE ALARM ELECTRO-MAGNETIC DOOR HOLDER	6'-4"
	FIRE RELAY	----
	DESK MOUNTED INTERCOM	----
	WALL MOUNTED INTERCOM	----
	EXPLOSION PROOF SWITCH	3'-10"
	3 WAY SWITCH	3'-10"
	4 WAY SWITCH	3'-10"
	NEMA 4X SWITCH	3'-10"

LEGEND

ABBREVIATIONS			
ABBV	DESCRIPTION	IG	ISOLATED GROUND
ABV	ABOVE		
AFF	ABOVE FINISHED FLOOR	MON	MONITOR
ACL	ABOVE FINISHED CEILING	MTG	MOUNTING
BFC	BELOW FINISHED CEILING	MV	MULTI-VIEWER
C	CRITICAL BRANCH OR EMERG PWR-RED DEVICE & PLATE, UNO	MM	MICROWAVE OVEN
CL	CENTER-LINE	NEC	NATIONAL ELECTRICAL CODE
CLG	CEILING-MOUNTED	OCPD	OVERCURRENT PROTECTIVE DEVICE
COF	COFFEE MAKER	OCFI	OWNER-FURNISHED CONTRACTOR-INSTALLED
COP	COPIER	OFE	OWNER-FURNISHED EQUIPMENT
CTR	COUNTER	PRT	PRINTER
ECB	ENCLOSED CIRCUIT BREAKER	PTS	PNEUMATIC TUBE STATION
EMER	EMERGENCY	Q	QUIP BRANCH OR EMERG PWR-RED DEVICE & PLATE, UNO
EWC	ELECTRIC WATER COOLER	REF	REFRIGERATOR
EWH	ELECTRIC WATER HEATER	RMSTS	REQUIREMENTS
FAX	FACSIMILE MACHINE	WP	WEATHERPROOF
FBO	FURNISHED BY OTHERS	T	TAMPERPROOF DEVICE
GFCI	GROUND FAULT CIRCUIT INTERRUPTING - PERSONNEL PROTECTION	UNO	UNLESS OTHERWISE NOTED
GFI	GROUND FAULT INTERRUPTING - EQUIPMENT PROTECTION	UCR	UNDER-COUNTER REFRIGERATOR
HGT	HEIGHT		
FPMR	FUSE PER MANUFACTURER'S RECOMMENDATIONS		

SYMBOL	DESCRIPTION	MTG HGT AFF TO CL, UNLESS NOTED
	EXPOSED RACEWAY	----
	RACEWAY CONCEALED IN OR ABOVE CEILINGS AND WITHIN WALLS	----
	BRANCH CIRCUIT RACEWAY CONCEALED IN OR BELOW FLOOR SLAB OR BELOW GRADE	----
	FEEDER RACEWAY CONCEALED BELOW FLOOR SLAB OR BELOW GRADE	----
	LIGHTNING PROTECTION CABLING	----
	HOMERUN RACEWAY: NUMBER OF ARROWHEADS DENOTES NUMBER OF CIRCUITS	----
	RACEWAY TURNING UP AS VIEWED FROM THE LOAD	----
	RACEWAY TURNING DOWN AS VIEWED FROM THE LOAD	----
	RACEWAY VERTICAL RISER WITH HORIZONTAL CONTINUATION AT TWO LEVELS SHOWN	----
	CAPPED RACEWAY	----
	GENERAL LIGHTING OR OUTLET CIRCUIT - MAY BE DAISY CHAINED	----
	JUNCTION BOX	AS NOTED
	ENCLOSED BREAKER	----
	MOTOR	----
	FLEXIBLE CONDUIT CONNECTION	----
	SURFACE- OR FLUSH-MOUNTED LIGHTING/RECEPTACLE PANELBOARD	----
	POWER DISTRIBUTION PANELBOARD	----
	DRY TYPE TRANSFORMER	----
	MISCELLANEOUS SYSTEMS PANEL OR CABINET: REFER TO ABBREVIATIONS	----

ABBREVIATIONS

ABBREVIATION	MEANING
GFI	GROUND FAULT INTERRUPTER
WP	WEATHER PROOF
AFF	ABOVE FINISHED FLOOR
UNO	UNLESS NOTED OTHERWISE
FPMR	FUSE PER MANUFACTURER'S RECOMMENDATIONS
IG	ISOLATED GROUND-ORANGE RECEPTACLE
M	MONITOR RECEPTACLE: CRITICAL POWER- RED RECEPTACLE- 60° F.F. (UNO) (UNLESS VENDOR DRAWINGS REQUIRE DIFFERENT HEIGHT)
TSP	TWISTED SHIELDED PAIR

MOTOR CONTROLLER LEGEND

SYMBOL	DESCRIPTION
	ACROSS THE LINE MOTOR STARTER
	SOFT STARTER
	VARIABLE FREQUENCY DRIVE
	ACROSS THE LINE MOTOR STARTER WITH INTEGRAL DISCONNECT
	SOFT STARTER WITH INTEGRAL DISCONNECT
	VARIABLE FREQUENCY DRIVE WITH INTEGRAL DISCONNECT

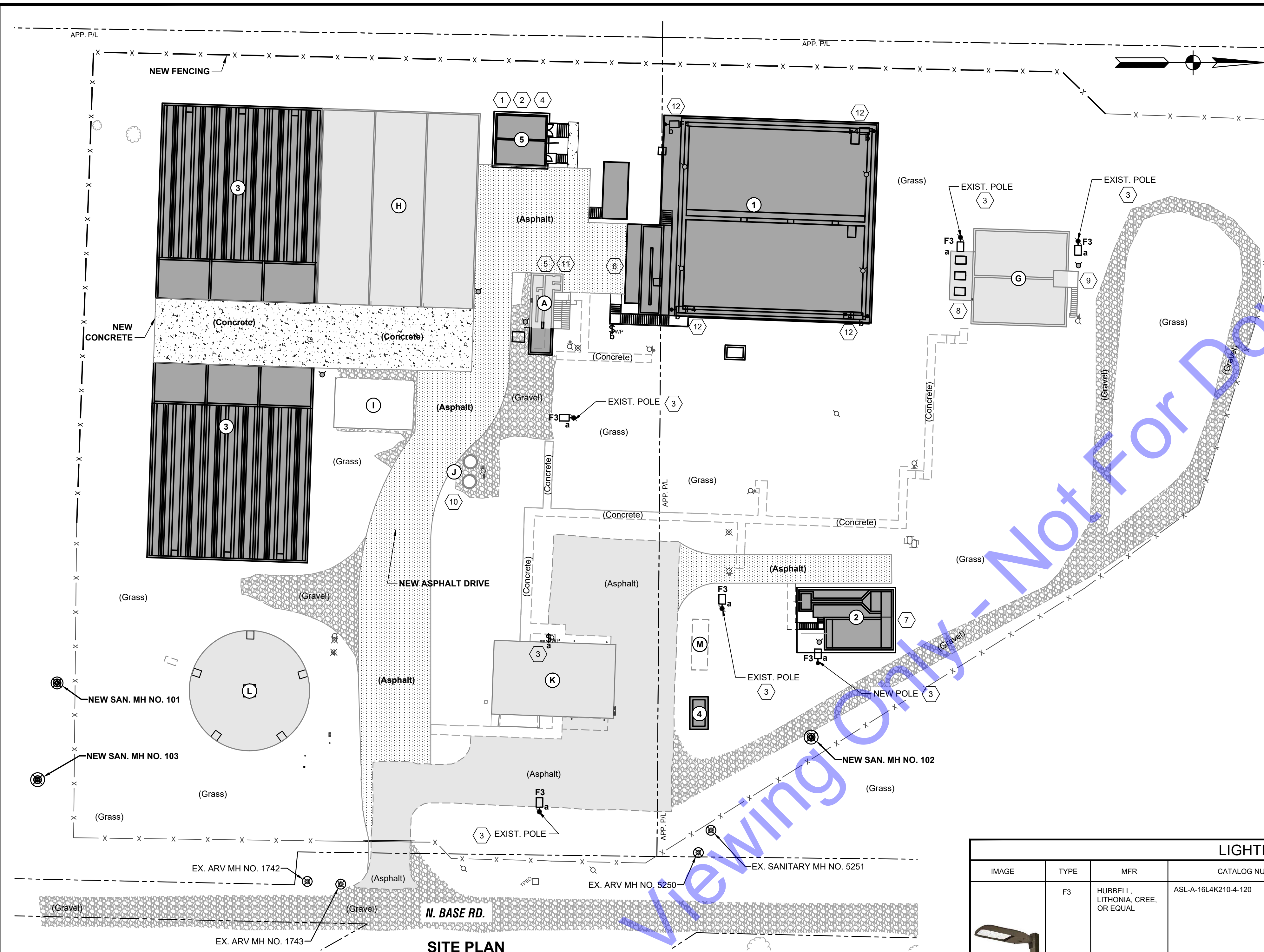
COMMONWEALTH ENGINEERS, INC. OFFICE LOCATIONS IN:
INDIANAPOLIS, IN (2)
EVANSVILLE, IN
FORT WAYNE, IN
CROWN POINT, IN
BOWLING GREEN, KY
SOUTH BEND, IN
https://commonwealthengineers.com/

Professional Engineer Seal for Robert Lee Chulick, No. 11300603, State of Indiana, dated 03/22/2024.

CITY OF ROCKPORT, INDIANA
SPENCER COUNTY, INDIANA
WASTEWATER LTCP PHASE 4 PROJECT
DIVISION "A" - WWTP

Indiana 811 logo with text: Know what's below. 811 before you dig. 1-800

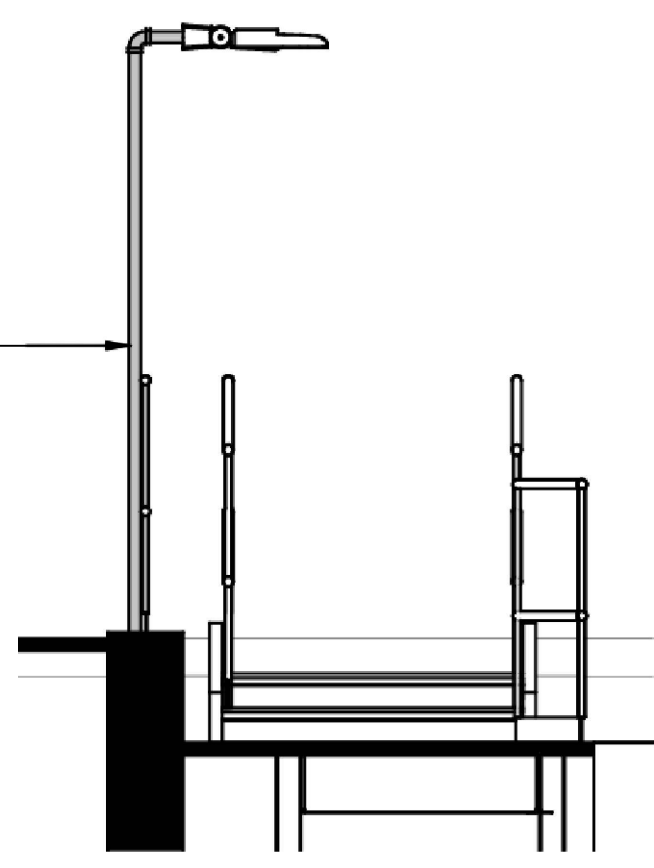
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 SHEET: 4/10/2024 4:41:25 PM Plotted: 4/10/2024 4:44:55 PM. Current User: Han-Shan.Lee@indiana.gov



SITE PLAN

SCALE: 1"=30'-0"
 0 30' 60'

1-1/2" PVC COATED RIGID CONDUIT MOUNT TO HANDRAIL WITH STAINLESS STEEL "U" BOLTS HEIGHT OF LIGHT TO BE 9' A.F.F.



HANDRAIL LIGHT
SCALE: NTS

NEW BUILDING LEGEND	
IDENTIFIER	DESCRIPTION
1	NEW SBR TREATMENT FACILITY
2	NEW UV AND CASCADE AERATION STRUCTURE
3	NEW SLUDGE DRYING BEDS
4	NEW EMERGENCY GENERATOR
5	NEW CHEMICAL FEED AND ELECTRICAL BUILDING

EXISTING BUILDING LEGEND	
IDENTIFIER	DESCRIPTION
A	EXISTING HEADWORKS
G	EXISTING AEROBIC DIGESTER
H	EXISTING DRYING BEDS
I	EXISTING SLUDGE DRYING PAD
J	EXISTING PLANT SITE LIFT STATION
K	EXISTING LAB AND GARAGE
L	EXISTING ELEVATED STORAGE TOWER
M	EXISTING GENERATOR

GENERAL NOTES:

- EXISTING INFORMATION OBTAINED FROM AS-BUILTS, SITE SURVEY, AND FIELD INVESTIGATIVE WORK PERFORMED BY GEL CONTRACTOR SHALL TAKE INTO CONSIDERATION EXISTING BURIED EQUIPMENT WHEN PLANNING THE INSTALLATION OF THE NEW EQUIPMENT OUTLINED IN THIS PROJECT. CONTRACTOR SHALL VISIT THE SITE TO BECOME ACQUAINTED WITH ALL PROJECT CONDITIONS INCLUDING EXISTING CONDITIONS, EXECUTION OF CONTRACT IS EVIDENCE THAT THE CONTRACTOR HAS EXAMINED ALL DRAWINGS AND SPECIFICATIONS AND THAT ALL CONDITIONS OF INSTALLING THE WORK IN THIS SECTION ARE VERIFIED. CLAIMS FOR LABOR, MATERIAL, OR TIME EXTENSIONS REQUIRED DUE TO DIFFICULTIES ENCOUNTERED, WHICH COULD HAVE BEEN FORESEEN HAD EXAMINATIONS BEEN MADE, WILL NOT BE RECOGNIZED. REFER TO PROCESS AND STRUCTURAL DRAWINGS FOR ADDITIONAL DETAILS REGARDING BURIED EQUIPMENT.
- PLANT IS TO REMAIN FULLY FUNCTIONAL DURING CONSTRUCTION.
- ALL EXPOSED PROCESS PIPING (EXCLUDING AIR PIPING) SHALL BE HEAT TRACED. HEAT TRACING TO BE POWERED FROM PB-1 AS DETAILED ON ASSOCIATED PANELBOARD SCHEDULE.

ELECTRICAL NOTES:

- NEW ELECTRICAL SERVICE SHALL BE 277 / 480 V THREE PHASE WYE. NEUTRAL IS REQUIRED FOR UV SYSTEM; THREE PHASE DELTA IS NOT ACCEPTABLE. ELECTRIC UTILITY SHALL PROVIDE NEW TRANSFORMER, NEW PRIMARY WIRE, AND NEW UTILITY POLES AS REQUIRED. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH UTILITY DURING BIDDING AND CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR ALL FEEDER MATERIAL AND LABOR NOT PROVIDED BY LOCAL UTILITY, INCLUDING PRIMARY AND SECONDARY CONDUIT, AND SECONDARY WIRE.
 - ELECTRICAL CONTRACTOR TO PROVIDE METER BASE AND MOUNTING AS REQUIRED BY LOCAL UTILITY. COORDINATE DURING BIDDING AND CONSTRUCTION. PROVIDE CT CABINETS AND UTILITY DISCONNECT AS REQUIRED BY UTILITY.
 - CONTRACTOR SHALL PROVIDE AND INSTALL NEW POLE MOUNTED LIGHTS ON EXISTING POLES. INSTALL DAY/NIGHT SENSORS ON ALL POLE MOUNTED LIGHTS. CONTRACTOR SHALL PROVIDE AND INSTALL WEATHERPROOF OFF-AUTO SWITCH(ES) ON EXTERIOR OF EXISTING LAB BUILDING. NEW LIGHTS SHALL BE POWERED FROM EXISTING SITE LIGHTING CIRCUITS IN EXISTING LAB PANELBOARD LXA.
 - PROVIDE BUILDING GROUNDING RING SYSTEM FOR STRUCTURE. PROVIDE GROUND RODS AT EACH INTERIOR AND EXTERIOR CORNER OF THE STRUCTURE. PROVIDE GROUND ROD AT GENERATOR AND TIE INTO GROUND LOOP WITH 3/0 WIRE MINIMUM. REFERENCE DETAILS FOR ADDITIONAL INFORMATION.
 - CONTRACTOR SHALL INSTALL NEW EXPLOSION PROOF RECEPTACLES ALONG TOP OF EXISTING HEADWORKS STRUCTURE TO BE USED FOR ELECTRIC WINCH. RECEPTACLES SHALL BE POWERED FROM PB-1.
- FOR ALL CONTROL PANELS TO BE INSTALLED, CONTRACTOR SHALL COORDINATE WITH STRUCTURAL WHEN DETERMINING EXACT FINAL LOCATION AND SHALL ENSURE THERE IS ENOUGH SPACE PROVIDED FOR PROPER CLEARANCE PER NEC. CONTRACTOR SHALL PROVIDE CONCRETE PADS, UNISTRUT, MOUNTING HARDWARE, AND MISCELLANEOUS APPURTENANCES AS REQUIRED FOR PROPER INSTALLATION.
- CONTRACTOR SHALL INSTALL SCREEN CONTROL PANEL (SCP-1) OUTSIDE AT NEW BAR SCREEN. CONTROL PANEL SHALL BE INSTALLED OUTSIDE OF CLASSIFIED SPACE.
 - CONTRACTOR SHALL INSTALL UV SCC CONTROL PANEL AND COMM 1 OUTSIDE AT NEW UV STRUCTURE. CONTRACTOR SHALL COORDINATE WITH UV MANUFACTURER REGARDING EXACT INSTALLATION LOCATION.
 - CONTRACTOR SHALL INSTALL AEROBIC DIGESTER BLOWER CONTROL PANEL (ADBCP-1) AND COMM 2 OUTSIDE AT EXISTING AEROBIC DIGESTER. ADBC-1 AND COMM 2 SHALL BE INSTALLED IN LOCATION OF EXISTING BLOWER CONTROL PANEL TO BE DEMOLISHED THIS PROJECT.
 - CONTRACTOR SHALL INSTALL AEROBIC DIGESTER SLUDGE PUMP CONTROL PANEL (ADSPCP-1) OUTSIDE AT EXISTING AEROBIC DIGESTER. ADSPCP-1 SHALL BE INSTALLED IN LOCATION OF EXISTING SLUDGE PUMP CONTROL PANEL TO BE DEMOLISHED THIS PROJECT.
 - CONTRACTOR SHALL INSTALL SITE LIFT STATION CONTROL PANEL (SLSCP-1) AND COMM 3 OUTSIDE AT EXISTING SITE LIFT STATION.
 - CONTRACTOR SHALL INSTALL HEADWORKS BLOWER CONTROL PANEL (HBCP-1) OUTSIDE AT EXISTING HEADWORKS STRUCTURE.
 - CONTRACTOR SHALL PROVIDE AND INSTALL HANDRAIL MOUNTED LIGHTS WITH DAY/NIGHT SENSORS WHERE SHOWN. SEE HANDRAIL MOUNT LIGHT DETAIL THIS SHEET FOR ADDITIONAL MOUNTING DETAILS. CONTRACTOR SHALL PROVIDE AND INSTALL WEATHERPROOF OFF-AUTO SWITCH WHERE SHOWN. CONTRACTOR IS RESPONSIBLE FOR FINAL INSTALLATION LOCATION OF LIGHT; LIGHTS SHALL NOT BE INSTALLED WITHIN CLASSIFIED AREAS. HANDRAIL LIGHTS SHALL BE POWERED FROM PB-1.

LIGHTING FIXTURE SCHEDULE

IMAGE	TYPE	MFR	CATALOG NUMBER	LAMPS	VOLT	MOUNTING	NOTES
	F3	HUBBELL, LITHONIA, CREE, OR EQUAL	ASL-A-16L4K210-4-120	(1) 123W LED 4000K, 50,000 HR RATED, 11417 LUMENS	120	MOUNT	THE AREA LUMINAIRE SHALL BE COMPLETE WITH 16 LIGHT EMITTING DIODES (LEDs). THE COMPLETE LED SYSTEM INCLUDING LEDS AND ELECTRONIC DRIVER SHALL HAVE A MAXIMUM INPUT POWER RATING OF 123W. THE UNIT SHALL BE APPROXIMATELY 11.7"W BY 22.4"L BY 5.9"D AND SHALL MOUNT TO THE POLE AT 30'-0" BY MEANS OF A DIE-CAST SUPPORT ARM. THE HOUSING SIDE SHALL BE VERTICALLY FINNED DIE-CAST AND EXTRUDED ALUMINUM FOR MAXIMUM HEAT DISSIPATION. THE UNIT SHALL BE FURNISHED COMPLETE WITH MODULAR LIGHT BARS INCORPORATING ARRAYS OF LEDS AND NANO OPTIC REFRACTORS IN QUANTITIES AND CONFIGURATIONS REQUIRED TO ACHIEVE THE SPECIFIED PHOTOMETRIC PERFORMANCE. THE OPTICAL SYSTEM SHALL BE DESIGNED TO PROVIDE AN IES TYPE IV DISTRIBUTION AND SHALL BE FURNISHED COMPLETE WITH A HOUSE SIDE SHIELD. IESNA BUG RATING: BACKLIGHT-2, UPLIGHT-0, GLARE-2. THE COMPLETE LUMINAIRE INCLUDING LED LIGHT ENGINES AND LED POWER COMPONENTS SHALL BE WARRANTED BY THE MANUFACTURER FOR A MINIMUM OF FIVE (5) YEARS FROM THE DATE OF SUBSTANTIAL COMPLETION. THE FINISH FOR THE LUMINAIRE SHALL BE SELECTED BY THE OWNER.
	POLE	HUBBELL, LITHONIA, CREE, OR EQUAL	SSSH30-40B-1-S2				POLE: THE POLE SHALL BE 30'-0" TALL BY 4" MIN. SQUARE STRAIGHT ALUMINUM WITH FINISH AS SELECTED BY THE OWNER FROM THE MANUFACTURER'S STANDARD FINISHES. THE POLE SHALL HAVE A MINIMUM 0.188" MINIMUM WALL THICKNESS AND SHALL BE RATED FOR 100 MPH WINDS WITH A 1.3 GUST FACTOR WITH THE SPECIFIED LUMINAIRE. THE POLE SHAFT SHALL BE ONE-PIECE STRAIGHT STEEL WITH SQUARE CROSS SECTION AND SHALL BE CIRCUMFERENTIALLY WELDED TOP AND BOTTOM. THE POLE SHALL BE FURNISHED COMPLETE WITH "L" FORMED ANCHOR BOLTS, ALUMINUM NUT COVERS, HANDHOLE AT +14" AND FUSE BLOCK LOCATED NEAR HANDHOLE. THE POLE SHALL BE COMPLETE WITH INTERNAL VIBRATION DAMPERS.
	F4	GARDCO DURAFORM OR EQUAL	FLDS-A02-740-MFL-UNV-FAWS	LED	120-277	SLIP FITTER MOUNT	PROVIDE MOUNTING BRACKETS/HARDWARE AS REQUIRED FOR INSTALLATION.

PROVIDE BULBS FOR ALL FIXTURES. PROVIDE 10% SPARE BULBS TO THE OWNER AT THE END OF THE PROJECT.

PROVIDE ALL MOUNTING HARDWARE REQUIRED TO MOUNT NEW FIXTURE.

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FOR LEE CHUCK
 REGISTERED PROFESSIONAL ENGINEER
 No. 11300603
 STATE OF INDIANA
 Signature: _____ Date: 03/22/2024

CITY OF ROCKPORT, INDIANA
SPENCER COUNTY, INDIANA
WASTEWATER LTCP PHASE 4 PROJECT
DIVISION "A" - WWTP

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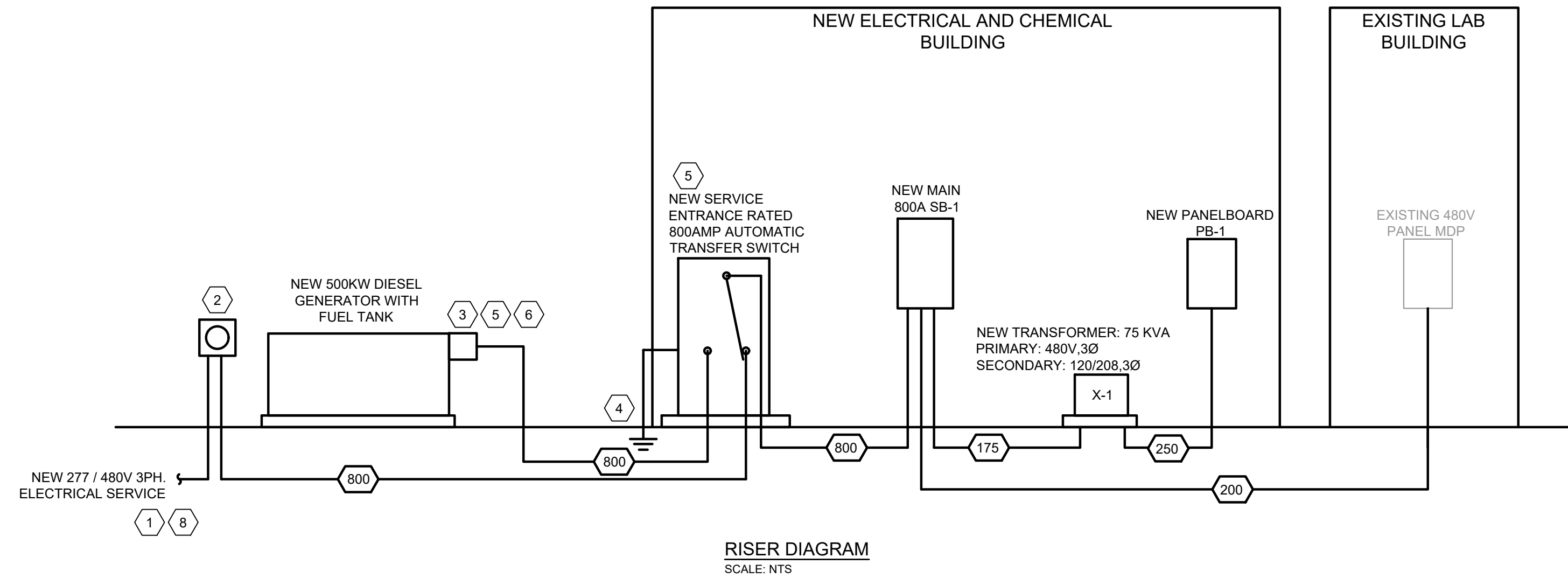
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Date	By	No.	Submittal / Revision

Designed By: RW	Drawn By: RW	Checked By: TLC
Issue Date: JAN. 2024	Project No: S20107	Scale: AS SHOWN

ELECTRICAL SITE IMPROVEMENTS PLAN

Drawing No: **E1-1**
 Sheet: 160 OF 177



PLAN NOTES

- 1 ELECTRIC UTILITY SHALL PROVIDE WIRE FROM UTILITY TO THE UTILITY TRANSFORMER. CONTRACTOR SHALL PROVIDE CONDUIT FROM UTILITY TO TRANSFORMER, IF APPLICABLE. CONTRACTOR SHALL PROVIDE ALL OTHER CONDUIT AND WIRING, INCLUDING FROM TRANSFORMER TO METER. ELECTRICAL CONTRACTOR TO COORDINATE WITH LOCAL UTILITY (CENTERPOINT) FOR SERVICE UPGRADE.
- 2 ELECTRICAL CONTRACTOR TO PROVIDE METER BASE AND MOUNTING AS REQUIRED BY LOCAL UTILITY. COORDINATE DURING BIDDING AND CONSTRUCTION. PROVIDE CT CABINETS AS REQUIRED BY UTILITY.
- 3 PROVIDE GENERATOR INTEGRAL CIRCUIT BREAKER TO PROVIDE MEANS OF CURRENT PROTECTION AND DISCONNECTION AT THE GENERATOR.
- 4 PROVIDE BUILDING GROUNDING RING SYSTEM FOR NEW STRUCTURE. PROVIDE GROUND RODS AT EACH INTERIOR AND EXTERIOR CORNER OF THE STRUCTURE. PROVIDE GROUND ROD AT GENERATOR WITH 3/0 WIRE MINIMUM. REFERENCE DETAILS FOR ADDITIONAL INFORMATION.
- 5 COORDINATE WITH GENERATOR AND ATS SUPPLIER/MANUFACTURER FOR WIRING REQUIREMENTS DURING BIDDING AND CONSTRUCTION.
- 6 DO NOT BOND NEUTRAL TO GROUND AT GENERATOR. VERIFY THAT THE NEUTRAL TO GROUND IS NOT BONDED AT GENERATOR BY THE GENERATOR MANUFACTURER. NEUTRAL TO BE BONDED TO GROUND AT AUTOMATIC TRANSFER SWITCH ONLY.
- 7 POWER REQUIREMENTS FOR ANCILLARY DEVICES VARY BETWEEN GENERATOR MANUFACTURERS. CONTRACTOR TO COORDINATE WITH THE GENERATOR SUPPLIER/MANUFACTURER FOR POWER REQUIREMENTS TO THE ANCILLARY DEVICES.
- 8 COORDINATE WITH UTILITY DURING BIDDING AND CONSTRUCTION ON TRANSFORMER TYPE FOR NEW UTILITY FEED. TRANSFORMER PAD BY CONTRACTOR, IF APPLICABLE.

FEEDER SCHEDULE

TYPE NO.	COPPER WIRE		CONDUIT	W/O NEUTRAL	SERVICE
	QUANTITIES	WIRE SIZE			
15	4#12 & #12 GROUND		3/4"	3/4"	#8
20	4#12 & #12 GROUND		3/4"	3/4"	#8
30	4#10 & #10 GROUND		3/4"	3/4"	#8
50	4#8 & #10 GROUND		1"	1"	#8
65	4#6 & #8 GROUND		1-1/4"	1-1/4"	#8
85	4#4 & #8 GROUND		1-1/4"	1-1/4"	#8
100	4#3 & #8 GROUND		1-1/2"	1-1/4"	#8
115	4#2 & #6 GROUND		1-1/2"	1-1/2"	#8
130	4#1 & #6 GROUND		2"	1-1/2"	#6
150	4#1/0 & #6 GROUND		2"	2"	#6
175	4#2/0 & #6 GROUND		2"	2"	#4
200	4#3/0 & #6 GROUND		2-1/2"	2"	#4
225	4#4/0 & #4 GROUND		2-1/2"	2-1/2"	#2
250	4#250MCM & #4 GROUND		3"	2-1/2"	#2
300	4#350MCM & #3 GROUND		3"	3"	#2
380	4#500MCM & #3 GROUND		4"	4"	#1/0
420	4#600MCM & #2 GROUND		4"	4"	#1/0
460	(2 SETS)4#4/0 & #2 GROUND		2-1/2"	2-1/2"	#1/0
500	(2 SETS)4#250MCM & #2 GROUND		4"	3"	#1/0
600	(2 SETS)4#350MCM & #1 GROUND		4"	3"	#2/0
700	(2 SETS)4#500MCM & #1/0 GND		4"	4"	#2/0
800	(3 SETS)4#300MCM & #1/0 GND		3"	3"	#2/0
1000	(3 SETS) 4#500MCM & #2/0 GND		4"	4"	#3/0
1200	(4 SETS) 4#350 MCM & 33/0 GND		4"	4"	#3/0
1600	(5 SETS) 4#600 MCM & #3/0 GND		4"	3 1/2"	#3/0
2000	(6 SETS) 4#600MCM & #3/0 GND		4"	3 1/2"	#3/0

ALL FEEDERS ARE ASSUMED TO BE 4 CURRENT CARRYING CONDUCTORS (3 PHASE CONDUCTORS AND 1 NEUTRAL) UNLESS NOTED OTHERWISE.

FEEDER KEY IS AS FOLLOWS (PARENTHESIS DENOTES SUBSCRIPT):

- ### = 3 PHASES AND NEUTRAL WITH GROUND
- ###(N) = 3 PHASES, NO NEUTRAL WITH GROUND
- ###(2) = 2 PHASES AND NEUTRAL WITH GROUND
- ALL CIRCUITS SHALL BE RUN IN PVC BELOW GROUND/PVC COATED RIGID ABOVE GROUND

GENERAL NOTES:

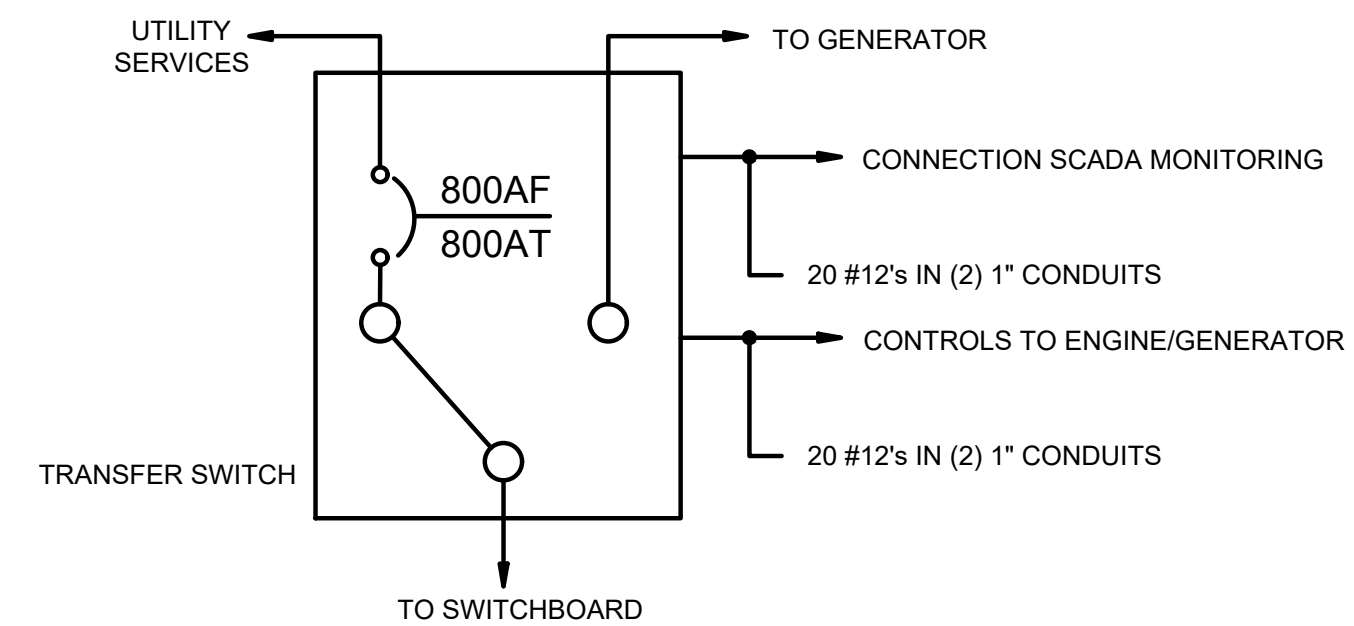
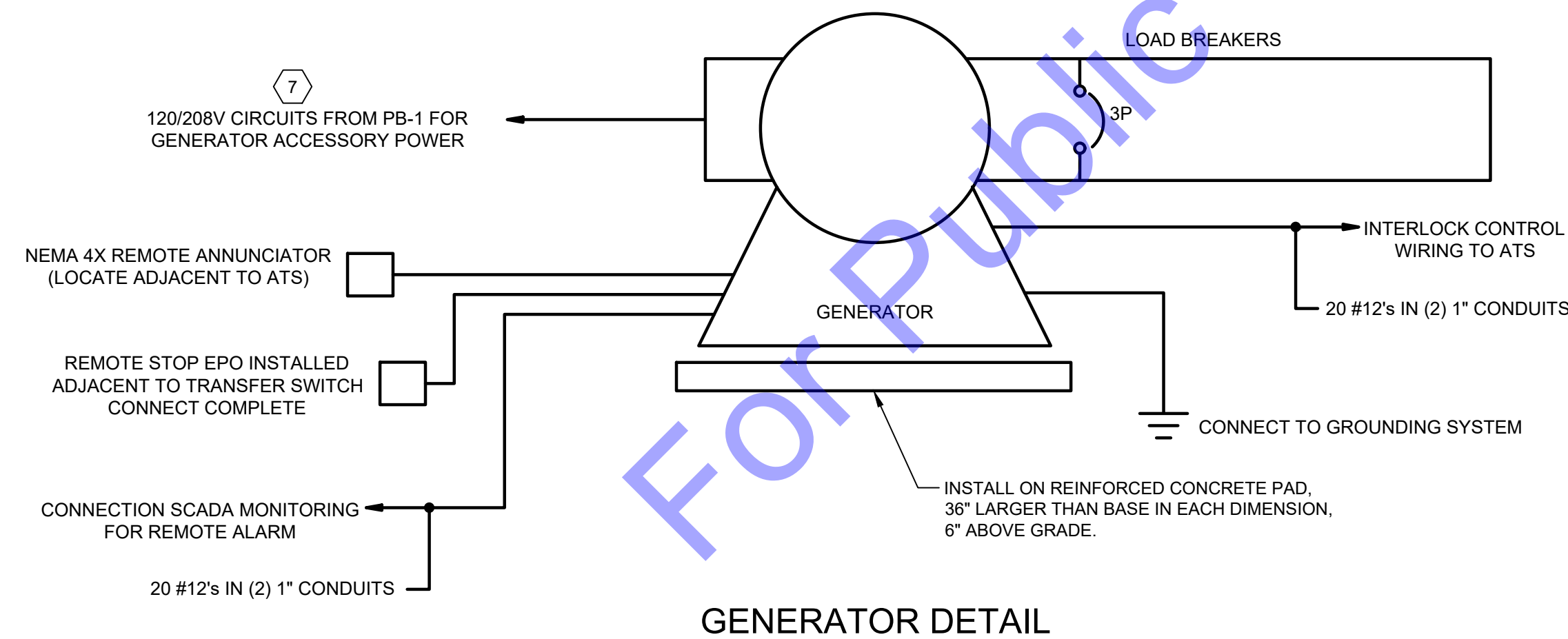
SEE E0.0 FOR PROJECT CONDUIT REQUIREMENTS.

GENERATOR

MINIMUM RATED CAPACITY: 500kW	MODEL: 500DFEK; ALTERNATOR: HC5F BCODE: B414 OR EQUAL MEETING SPECIFICATIONS
BASIS OF DESIGN: MANUFACTURER: CUMMINS	FUEL TYPE: DIESEL
RATED VOLTAGE: 480/277 3-PHASE/4-WIRE	
ENCLOSURE RATING: SEE SPECIFICATIONS	
FUEL TANK CAPACITY: 24 HOURS	SEE SPECIFICATIONS FOR ADDITIONAL FEATURES

AUTOMATIC TRANSFER SWITCH

TRANSFER SWITCH TYPE: AUTOMATIC	CURRENT RATING: 800A
RATED VOLTAGE: 480/277 3-PHASE/4-WIRE	# OF POLES: 3
NEUTRAL CONFIGURATION: SOLID	IN-SYNC TRANSFER: YES
MAIN CIRCUIT BREAKER: 800A	GROUND FAULT ON MAIN: NO
SERVICE ENTRANCE RATED: YES	REMOTE ANNUNCIATION: YES
BY-PASS/ISOLATION: NO	NEC LOAD BRANCH: 702
	KAIC: 42
	SEE SPECIFICATIONS FOR ADDITIONAL FEATURES
NEMA RATING: 1	CYCLE RATING: 3



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FOR LEE CHUCK
REGISTERED
No. 11300603
STATE OF INDIANA
PROFESSIONAL ENGINEER

Signature Date: 03/22/2024

CITY OF ROCKPORT
SPENCER COUNTY, INDIANA
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Issue Date: JAN. 2024	Project No: S20107	Scale: AS SHOWN

RISER DIAGRAM

FILE: Z:\SHARED\CLIENTS\N.ROCKPORT\03\107 WASTEWATER LTCP PHASE 4B CADD\MCH-ELECTRICAL DRAWINGS\WWT.DWG
Sheet: 4/10/2024 4:39:52 PM Plotted: 4/10/2024 4:45:17 PM. Current User: Iain Shaw Last Saved By: main

Panel Name: PB-1		Panel Amperage: 250A		
Voltage & Phase: 120/208Y-3Ø		Panel A.I.C. Rating: 10kAIC		
Mounting: Surface		Other: MCB / 250A		
Description	Brk	Phase	Brk	Description
EMERGENCY LIGHTING	20	1 A 2	20	ELECTRICAL ROOM LIGHTING
ELEC/CHEM ROOM RECEPTACLES	20	3 B 4	20	EXTERIOR LIGHTING
FCU-1	20	5 C 6	20	FCU-2
FCU-1	-	7 A 8	-	FCU-2
HP-1	30	9 B 10	30	HP-2
HP-1	-	11 C 12	-	HP-2
EXTERIOR RECEPTACLES	20	13 A 14	20	CHEMICAL FEED PUMP SKID
CHEMICAL ROOM LIGHTING	20	15 B 16	30	WATER HEATER
EF-1/DA-1	20	17 C 18	-	WATER HEATER
UV SCC	20	19 A 20	20	MCP-1
SLSCP-1	20	21 B 22	20	ADSPCP-1
ADBCP-1	20	23 C 24	20	HBCP-1
INSTRUMENTATION	20	25 A 26	20	GENERATOR ACCESSORIES
EXISTING HEADWORKS RECEPTACLES	20	27 B 28	30	GENERATOR ACCESSORIES
SBR HANDRAIL LIGHTS	20	29 C 30	-	GENERATOR ACCESSORIES
SBR BLOWER COOLING FAN	20	31 A 32	20	GENERATOR ACCESSORIES
SBR BLOWER COOLING FAN	20	33 B 34	20	SBR BLOWER COOLING FAN
DIGESTER BLOWER COOLING FAN	20	35 C 36	20	HEAT TRACE
DIGESTER BLOWER COOLING FAN	20	37 A 38	20	HEAT TRACE
DIGESTER BLOWER COOLING FAN	20	39 B 40	20	HEAT TRACE
HEADWORKS BLOWER COOLING FAN	20	41 C 42	20	GATE OPERATOR
SPARE	20	43 A 44	20	SPARE
SPARE	20	45 B 46	20	SPARE
SPARE	20	47 C 48	20	SPARE

Type #	Copper Wire	Conduit
20	3 #12's & #12 Ground	3/4"
30	3 #10's & #10 Ground	3/4"
50	3 #8's & #10 Ground	3/4"
60	3 #6's & #8 Ground	3/4"
80	3 #4's & #8 Ground	1"
100	3 #2's & #6 Ground	1.5"
125	3 #1's & #6 Ground	1.5"
150	3 - 2/0 & #6 Ground	2"
200	3 - 4/0 & #4 Ground	2.5"
250	3 - 300's & #4 Ground	3"

GENERAL NOTES:

EXISTING EQUIPMENT SHOWN LIGHTER.

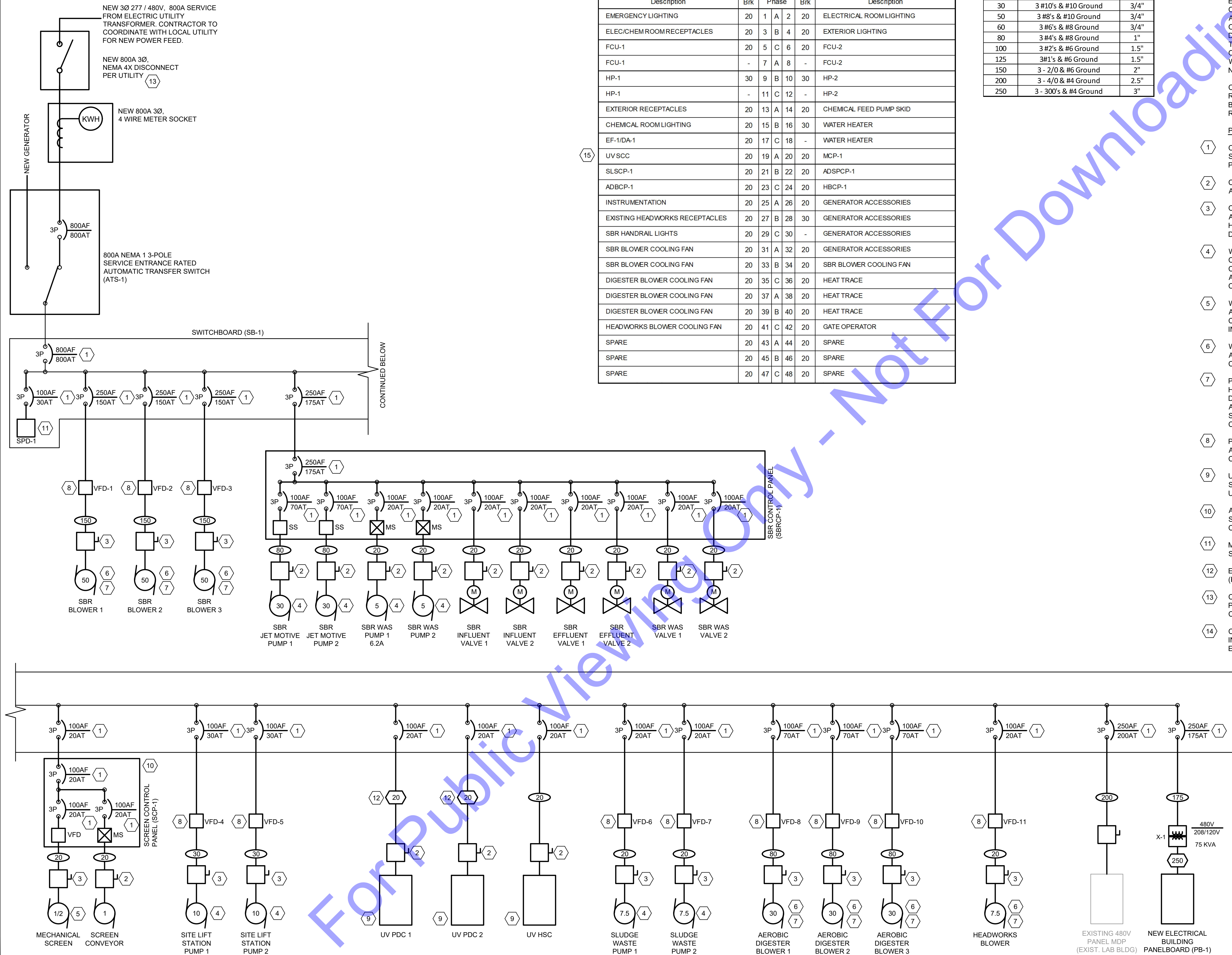
REFER TO E0.0 FOR PROJECT CONDUIT REQUIREMENTS.

CONTRACTOR SHALL EXAMINE NOT ONLY PLANS AND SPECIFICATIONS FOR ELECTRICAL AND INSTRUMENTATION, BUT PLANS AND SPECIFICATIONS FOR OTHER RELATED SECTIONS. VISIT THE SITE TO BECOME ACQUAINTED WITH ALL PROJECT CONDITIONS INCLUDING EXISTING CONDITIONS. EXECUTION OF CONTRACT IS EVIDENCE THAT THE CONTRACTOR HAS EXAMINED ALL DRAWINGS AND SPECIFICATIONS AND THAT ALL CONDITIONS OF INSTALLING THE WORK IN THIS SECTION ARE VERIFIED. CLAIMS FOR LABOR, MATERIAL, OR TIME EXTENSIONS REQUIRED DUE TO DIFFICULTIES ENCOUNTERED, WHICH COULD HAVE BEEN FORESEEN HAD EXAMINATIONS BEEN MADE WILL NOT BE RECOGNIZED.

CONTRACTOR IS RESPONSIBLE FOR WIRE SIZE BASED UPON CONDUIT ROUTING AND LENGTH OF FINAL WIRE RUN. CONTRACTOR SHALL SIZE WIRE BASED UPON A MAXIMUM 3% VOLTAGE DROP. CONTRACTOR IS RESPONSIBLE FOR ANY COSTS INCURRED BY INCREASED WIRE SIZE.

PLAN NOTES:

- COORDINATE WITH THE CONTRACTOR AND EQUIPMENT SUPPLIERS WHEN SELECTING THE CIRCUIT BREAKER SIZES TO ENSURE PROPER SIZING. PROVIDE BREAKERS WITH THE MEANS FOR LOCKOUT/TAGOUT.
- CONTRACTOR TO PROVIDE NEMA 4X STAINLESS STEEL DISCONNECT SIZED AS REQUIRED FOR THE LOAD PER NEC.
- CONTRACTOR TO PROVIDE NEMA 4X STAINLESS STEEL DISCONNECT SIZED AS REQUIRED FOR THE LOAD PER NEC. DISCONNECTS FOR VFD'S SHALL HAVE AUXILIARY CONTACT SWITCH TO OPEN VFD SAFETY CIRCUIT WHEN DISCONNECT IS OPENED.
- WIRE PUMP SAFETIES AND LEVEL CONTROLS AS REQUIRED. PROVIDE CONDUIT AND WIRING FOR PUMP CONTROLS AS REQUIRED FOR A COMPLETE AND FUNCTIONING SYSTEM. REFERENCE DS SPECIFICATIONS AND COORDINATE WITH CONTRACTOR DURING BIDDING AND CONSTRUCTION.
- WIRE SCREEN SAFETIES AS REQUIRED. REFERENCE DS SPECIFICATIONS AND COORDINATE WITH CONTRACTOR DURING BIDDING AND CONSTRUCTION. PROVIDE SAFETY RELAYS AS REQUIRED. INCORPORATE INTRO CONTROL PANELS.
- WIRE BLOWER SAFETIES AS REQUIRED. REFERENCE DS SPECIFICATIONS AND COORDINATE WITH MANUFACTURER DURING BIDDING AND CONSTRUCTION.
- PROVIDE POWER AND CONTROL FOR BLOWER COOLING FAN AND/OR HEATER AS REQUIRED. COORDINATE WITH BLOWER MANUFACTURER DURING BIDDING AND CONSTRUCTION REGARDING BLOWER COOLING FAN AND/OR HEATER POWER AND CONTROL. CERTAIN BLOWER FANS REQUIRE A SEPARATELY CONTROLLED SINGLE PHASE POWER SOURCE FOR THE COOLING FAN AND/OR HEATER.
- PROVIDE ALLEN BRADLEY LINE TERMINATORS ON ALL VFD'S THAT ARE NOT ACTIVE FRONT END DRIVES. COORDINATE WITH VFD SUPPLIER FOR PROPER COMPONENT SELECTION.
- UV MANUFACTURER TO PROVIDE CONTROL PANEL WITH NEMA 4X STAINLESS STEEL ENCLOSURE TO BE INSTALLED OUTDOORS ADJACENT TO UV CHANNEL.
- ALL VFD CONTROL PANELS ARE TO BE PROVIDED WITH A NEMA 4X STAINLESS STEEL A/C UNIT, SIZED ACCORDINGLY. PROVIDE HEAT LOAD CALCULATIONS WITH SUBMITTAL.
- MOUNT SURGE SUPPRESSOR ADJACENT TO SWITCHBOARD PER SURGE SUPPRESSOR MANUFACTURER INSTRUCTIONS.
- ELECTRICAL TO UV PDC ENCLOSURE TO BE 480Y/277 VAC 3 PHASE, 4-WIRE (PLUS GROUND).
- CONTRACTOR SHALL PROVIDE NEMA 4X DISCONNECT TO BE INSTALLED PRIOR TO UTILITY METER PER CENTERPOINT ENERGY REQUIREMENTS. COORDINATE WITH CENTERPOINT FOR ADDITIONAL DETAILS.
- CONTRACTOR SHALL PROVIDE NEMA 12 DISCONNECT FUSED AT 200A TO BE INSTALLED IN EXISTING LAB BUILDING ELECTRICAL ROOM ADJACENT TO EXISTING MDP PANEL.
- CONTRACTOR TO PROVIDE NEMA 4X STAINLESS STEEL DISCONNECT SIZED AS REQUIRED FOR THE LOAD PER NEC FOR UV SCC, TO SERVE AS THE LOCAL DISCONNECTING MEANS.



ONE LINE DIAGRAM

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 Signature: _____ Date: 03/22/2024

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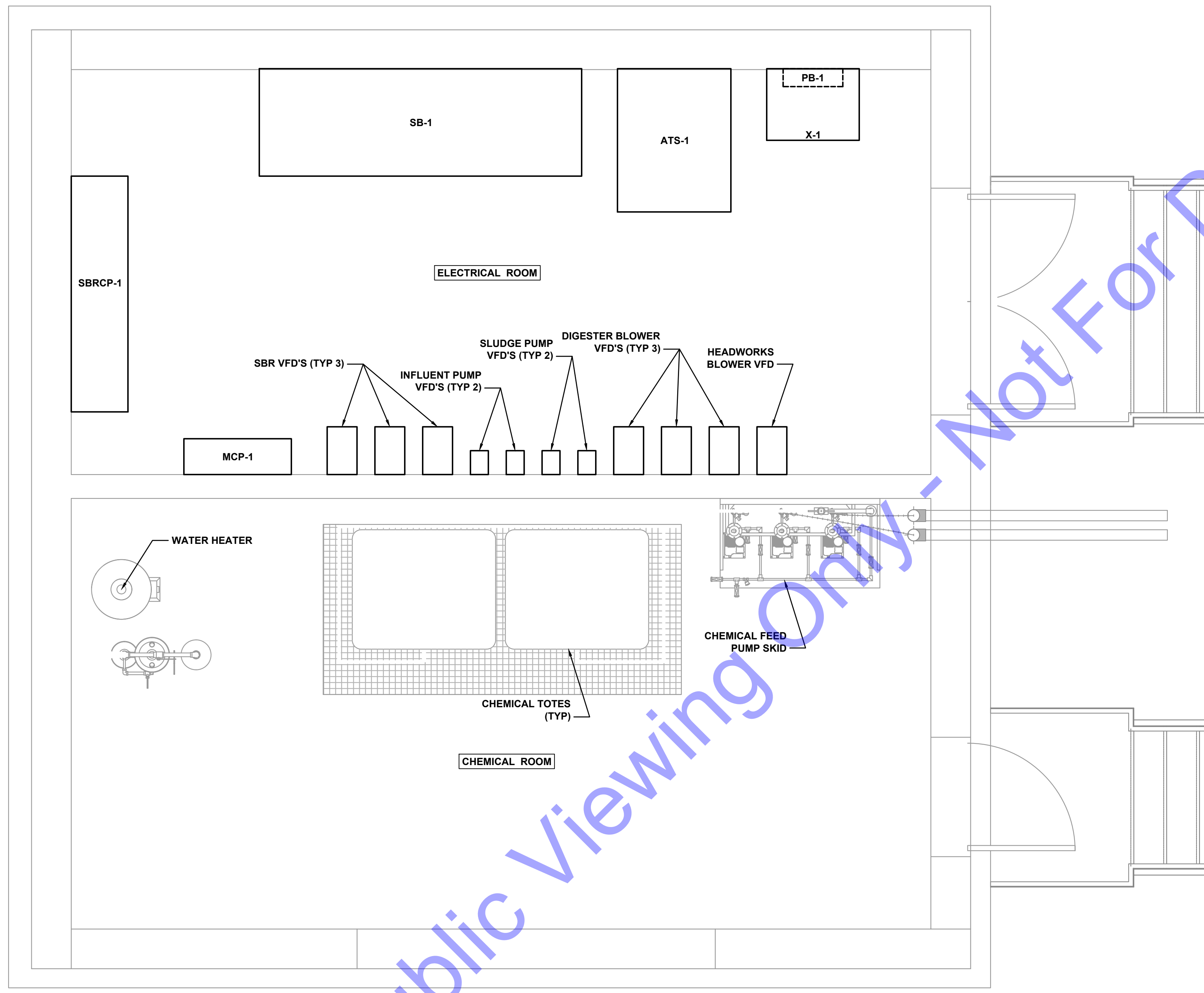
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ELECTRICAL ONE-LINE

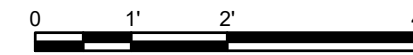
Drawing No:
E2-1
 Sheet: 162 OF 177

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PLAN VIEW

SCALE: 1/2"=1'-0"



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 No. 11300603
 STATE OF INDIANA

[Signature]
 Signature Date: 03/22/2024

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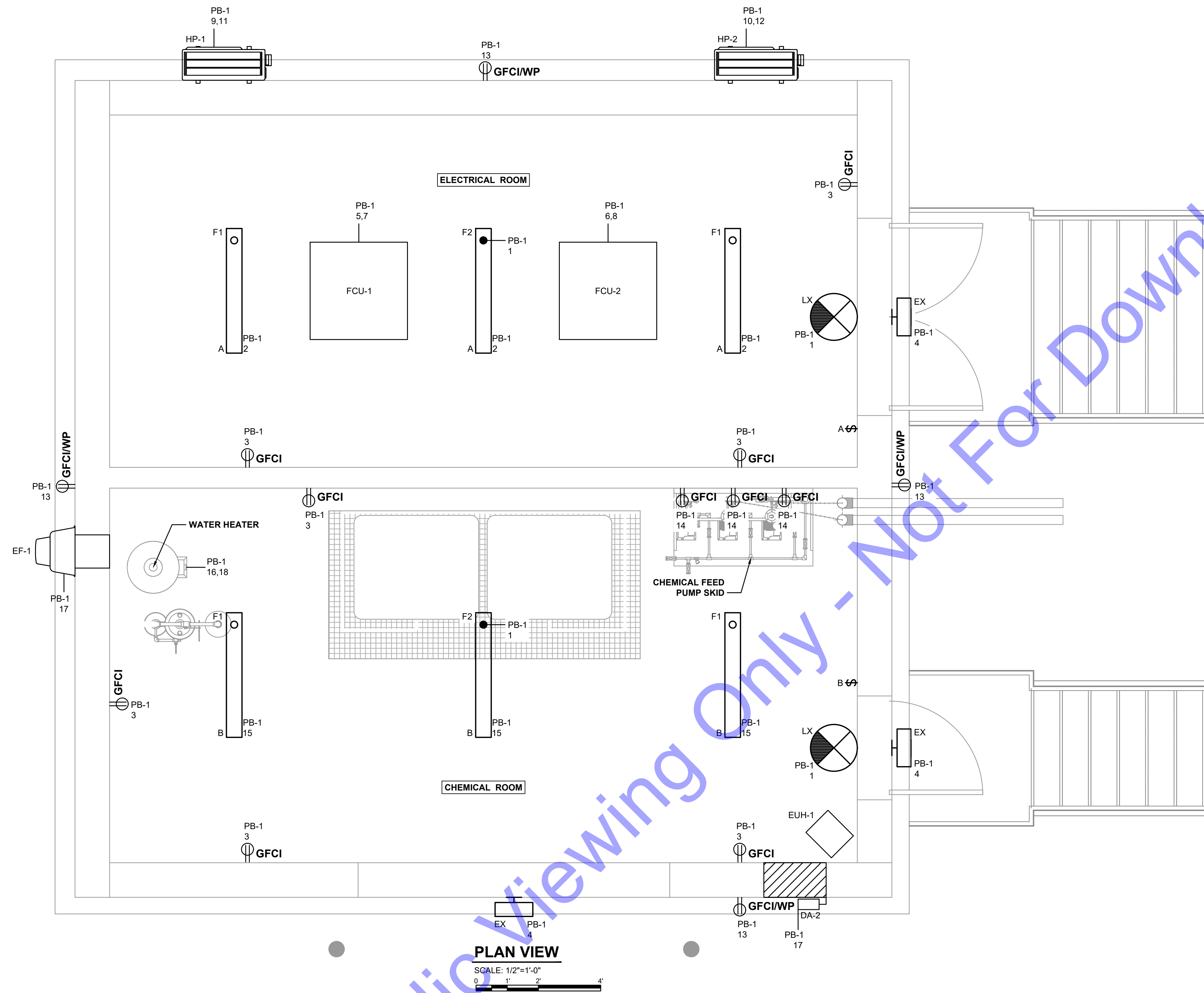
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**NEW CHEMICAL FEED
 AND ELECTRICAL
 BUILDING - ELECTRICAL
 LAYOUT**

Drawing No:
E3-0
 Sheet: 163 OF 177

FILE: Z:\INDIANAPOLIS\CLIENTS\N2\ROCKPORT\03\107\WASTEWATER LTCP PHASE 4\03_CAD\W\MCH-ELECTR\NEW ELECTRICAL BUILDING.dwg
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PLAN VIEW
 SCALE: 1/2"=1'-0"
 0 1' 2' 4'

LIGHTING FIXTURE SCHEDULE							
IMAGE	TYPE	MFR	CATALOG NUMBER	LAMPS	VOLT	MOUNTING	NOTES
	F1	LITHONIA, CREE, OR EQUAL	CSVT L48 6000LM MVOLT 40K 80CRI	LED	120-277	SURFACE	PROVIDE WET LOCATION FITTINGS AS REQUIRED. PROVIDE MOUNTING BRACKETS AS REQUIRED.
	F2	LITHONIA, CREE, OR EQUAL	CSVT L48 6000LM MVOLT 40K 80CRI IE7WCP	LED	120-277	SURFACE	BATTERY BACKED EMERGENCY LIGHT PROVIDE WET LOCATION FITTINGS AS REQUIRED. PROVIDE MOUNTING BRACKETS AS REQUIRED. TWO BALLASTED LIGHT, STANDARD FUNCTION AND EMERGENCY BACKUP.
	EX	SYLVANIA, CREE, OR EQUAL	TWP/PL030/740/IC5/UNV/BZ	LED	120-277	SURFACE	WALL MOUNTED OUTDOOR SCONCE WITH TEMPERED GLASS LENS. PROVIDE WITH PHOTOCELL. 2800 LUMENS.
	LX	EMERGI-LITE OR EQUAL	LEDP-1-R	INCLUDED	120	UNIVERSAL	LED EXIT SIGN WITH RED LETTERING ON BRUSHED ALUMINUM PANEL. CHEVRONS SHALL BE REQUIRED AS SHOWN ON DRAWINGS.

PROVIDE BULBS FOR ALL FIXTURES. PROVIDE 10% SPARE BULBS TO THE OWNER AT THE END OF THE PROJECT.

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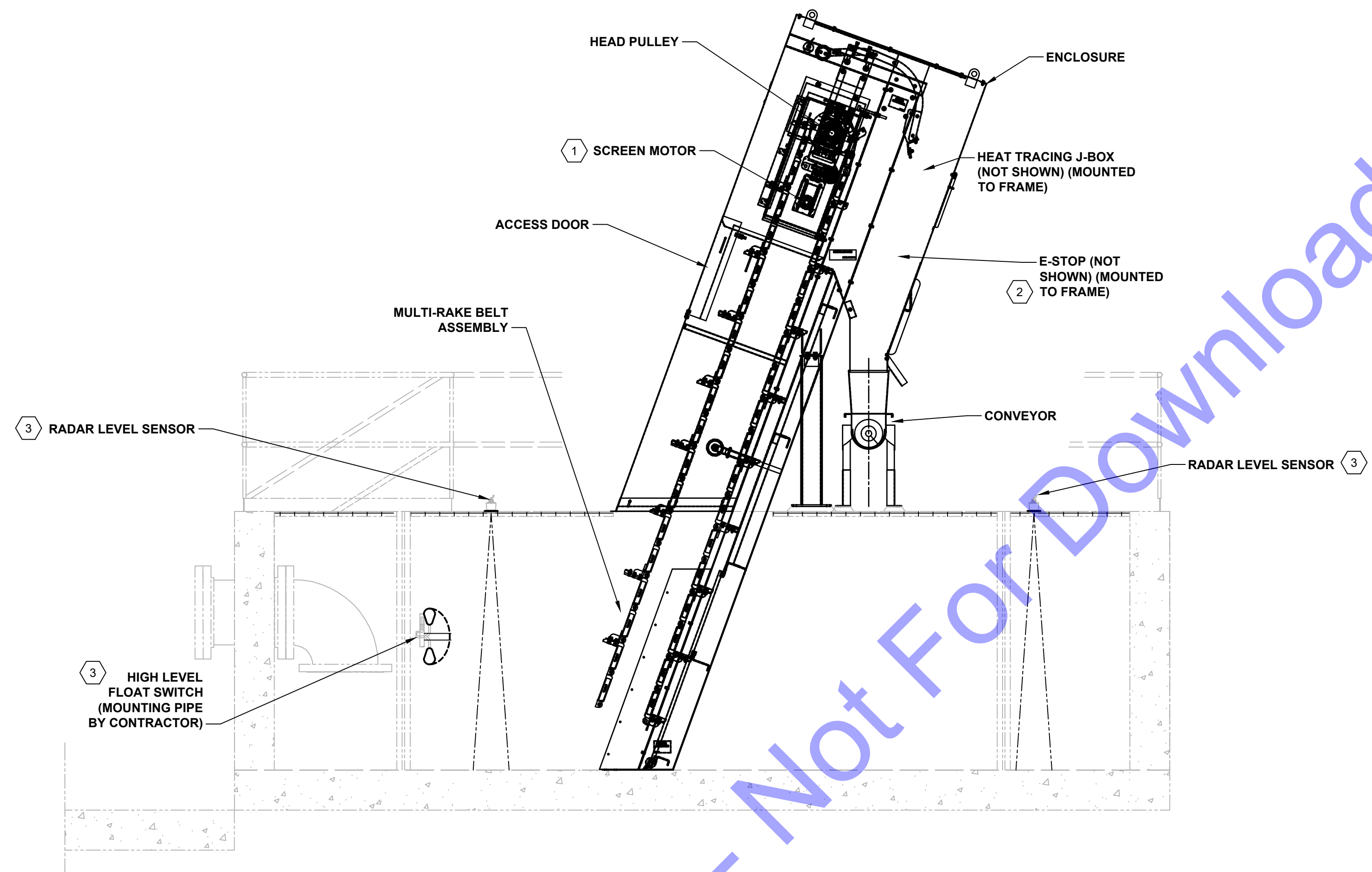
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Designed By: RW Drawn By: RW Checked By: TLC
 Issue Date: JAN. 2024 Project No: S20107 Scale: AS SHOWN

NEW CHEMICAL FEED AND ELECTRICAL BUILDING - LIGHTING PLAN

Drawing No: **E3-1**
 Sheet: 164 OF 177



BAR SCREEN EQUIPMENT DIAGRAM

SCALE: NTS

GENERAL NOTES:

BASIS OF DESIGN IS PARKSON SCREENING EQUIPMENT. DRAWING AND WIRING DIAGRAM PROVIDED BY BAR SCREEN MANUFACTURER AND ARE GENERIC IN NATURE. PROVIDED AS A REFERENCE FOR CONTRACTOR CONVENIENCE. CONTRACTOR TO COORDINATE WITH MANUFACTURER DURING BIDDING AND CONSTRUCTION TO ENSURE A COMPLETE AND FULLY FUNCTIONAL SYSTEM IS INSTALLED.

ALL ELECTRICAL EQUIPMENT INSTALLED WITHIN A 10FT ENVELOPE AROUND THE BAR SCREEN EQUIPMENT AND OPEN CHANNEL SHALL BE CLASS 1 DIVISION 2, INCLUDING CONDUIT SEAL OFFS (REFERENCE NFPA 820).

MANUFACTURER WILL PROVIDE A 480 VAC U.L. LISTED PANEL IN A NEMA 4X STAINLESS STEEL ENCLOSURE WHICH MUST BE MOUNTED OUTSIDE THE HAZARDOUS AREA.

ACCESSORIES FURNISHED BY THE SCREENING MANUFACTURER SHALL BE INSTALLED AND WIRED COMPLETE BY THE CONTRACTOR.

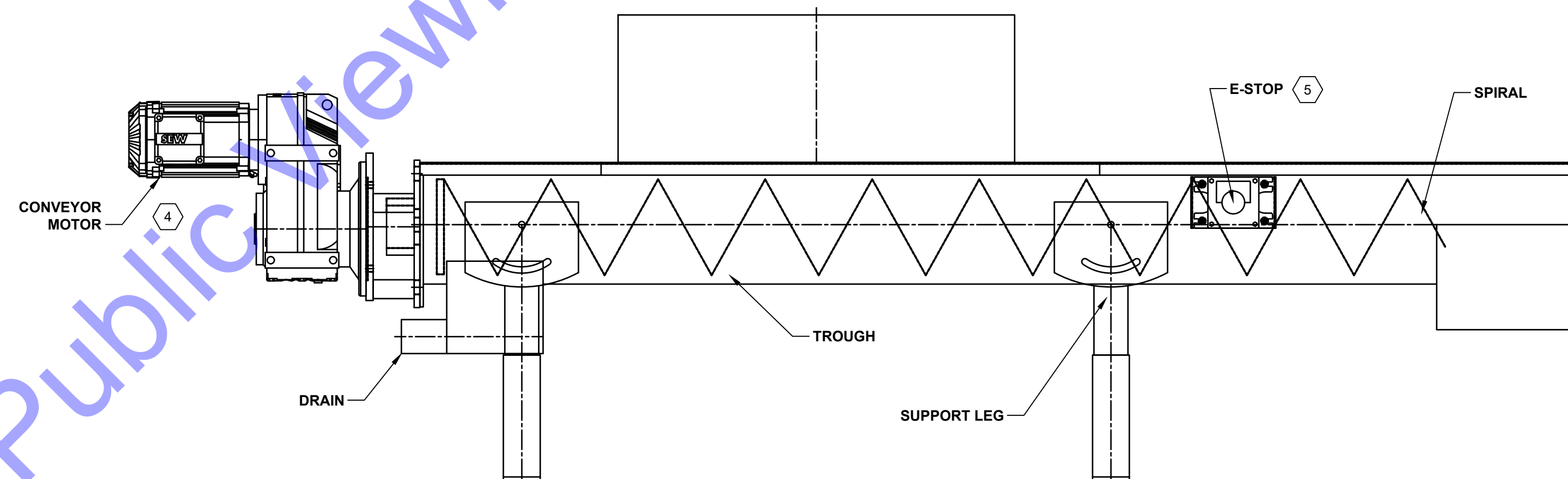
PROVIDE SUFFICIENT FLEXIBILITY IN WATER AND CONDUIT CONNECTIONS TO ALLOW FOR BASKET TO BE ROTATED OUT OF CHANNEL FOR MAINTENANCE.

BAR SCREEN PANEL SHALL PROVIDE 120VAC FOR HEAT TRACE. CONTRACTOR SHALL INSTALL HEAT TRACING AS REQUIRED BY THE MANUFACTURER.

A NEMA 4X AMBIENT SENSING THERMOSTAT WILL BE MOUNTED ADJACENT TO THE MAIN BAR SCREEN CONTROL PANEL OUT SIDE OF THE HAZARDOUS AREA, PRESET FOR 40 DEGREE F. THE THERMOSTAT WILL HAVE A 3/8 INCH NPT CONDUIT CONNECTION. ELECTRICAL POWER WILL BE FROM THE MAIN BAR SCREEN CONTROL PANEL.

ELECTRICAL NOTES:

- 1 SCREEN MOTOR: 1/2 HP, 230/460VAC, 3 PH., 60 HZ. RATED FOR USE IN CLASS 1 DIV. 1 ENVIRONMENTS.
- 2 LOCAL CONTROL STATION (SCREEN): A NEMA 7 LOCAL CONTROL STATION SHALL BE MOUNTED TO THE FRAME OF THE BAR SCREEN. STATION SHALL INCLUDE EMERGENCY STOP BUTTON.
- 3 LEVEL SENSING SYSTEM: TWO (2) RADAR LEVEL SENSORS AND ONE (1) HIGH LEVEL EMERGENCY FLOAT SWITCH SHALL BE PROVIDED. LEVEL SENSORS AND FLOAT SWITCH SHALL BE RATED FOR CLASS 1 DIV. 1 OPERATION. INTRINSICALLY SAFE BARRIERS SHALL BE PROVIDED IN CONTROL PANEL. VEGAMET CONTROLLER PROVIDED FOR RADAR LEVEL SENSORS SHALL BE NEMA 4X AND SHALL BE MOUNTED OUTSIDE OF THE HAZARDOUS AREA.
- 4 CONVEYOR MOTOR: HP TO BE SELECTED BY MANUFACTURER. 230/460VAC, 3 PH., 60 HZ. RATED FOR USE IN CLASS 1 DIVISION 1 ENVIRONMENTS.
- 5 E-STOP (CONVEYOR): A LOCAL NEMA 7 CAST ALUMINUM E-STOP PUSH BUTTON SHALL BE MOUNTED ON THE CONVEYOR.



CONVEYOR EQUIPMENT DIAGRAM

SCALE: NTS

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 PROFESSIONAL ENGINEER

Signature: [Signature] Date: 03/22/2024

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 SPENCER COUNTY, INDIANA
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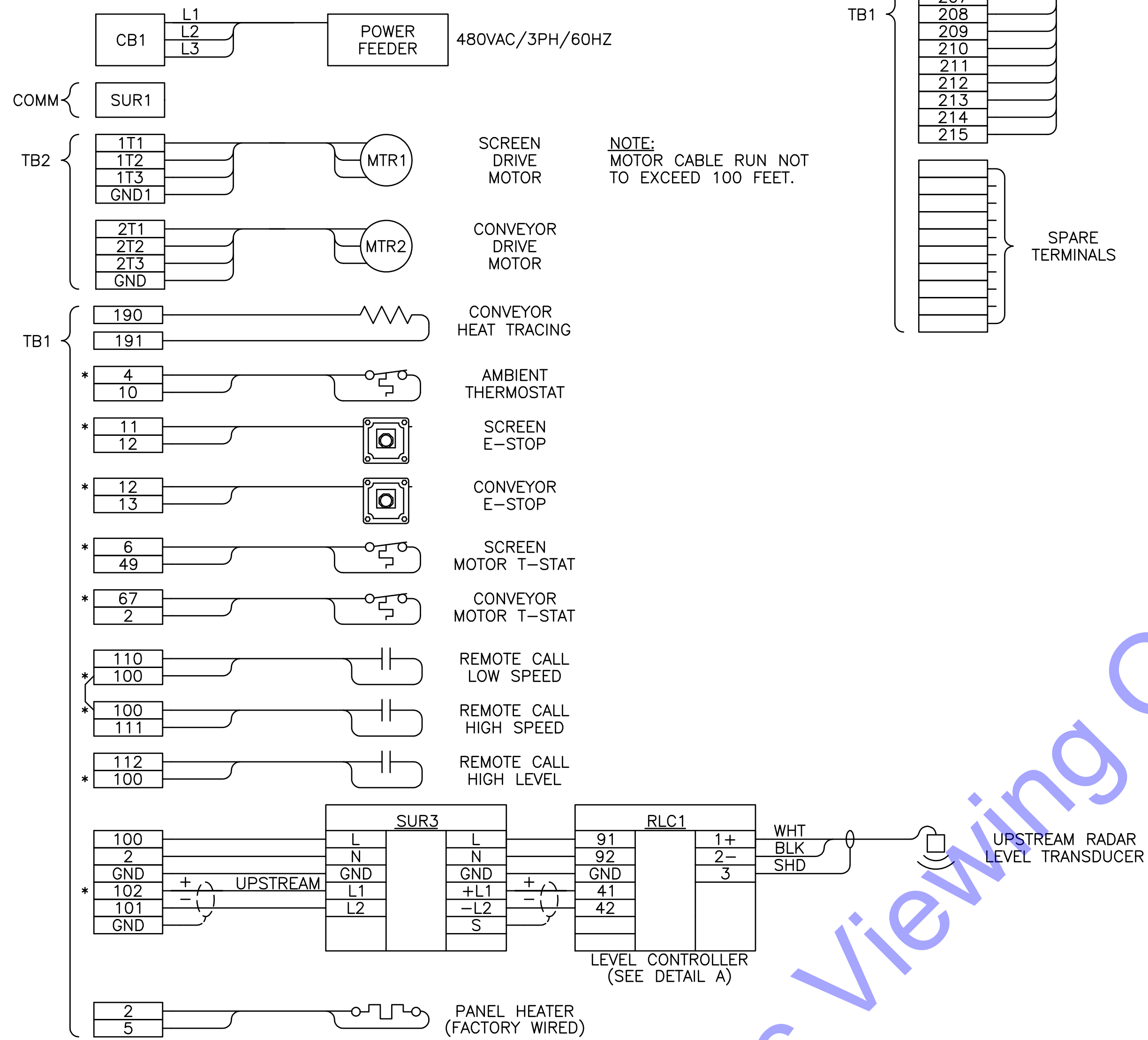
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BAR SCREEN ELECTRICAL PLAN

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FIELD WIRING DIAGRAM

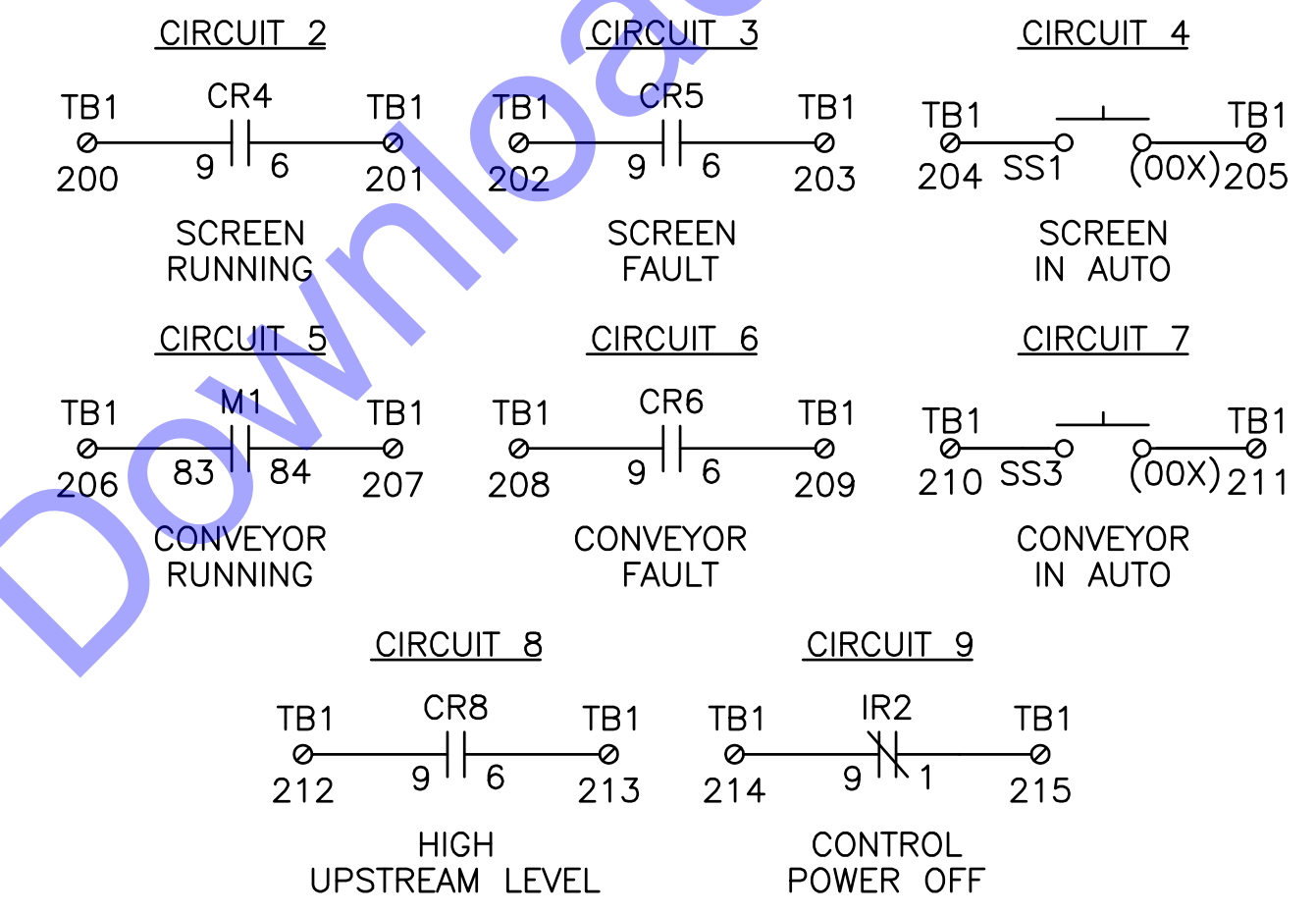
WARNING:
 DAMAGE RESULTING FROM INSTALLATION OF TOP ENTRY CONDUIT WILL VOID WARRANTY
 - USE PROPER FITTINGS, MEYERS TYPE 4 OR EQUAL
 - PROTECT INTERIOR DEVICES FROM INSTALLATION DEBRIS
 - CONDUIT MUST BE SEALED WATERTIGHT TO PREVENT WATER ENTRY



NOTE:
MOTOR CABLE RUN NOT TO EXCEED 100 FEET.

DRY OUTPUT CONTACTS

NOTE: IR2 WILL BE NORMALLY CLOSED, POWERED OPEN, AND WILL CLOSE WHEN THE CONTROL POWER IS LOST.



MAX. CONTROLLED LOAD: 10A @ 120VAC

NOTE: BRANCH CIRCUIT PROTECTION PROVIDED BY OTHERS PER N.E.C.

GENERAL NOTES:

- BASIS OF DESIGN IS PARKSON SCREENING EQUIPMENT. DRAWING AND WIRING DIAGRAM PROVIDED BY BAR SCREEN MANUFACTURER AND ARE GENERIC IN NATURE. PROVIDED AS A REFERENCE FOR CONTRACTOR CONVENIENCE. CONTRACTOR TO COORDINATE WITH MANUFACTURER DURING BIDDING AND CONSTRUCTION TO ENSURE A COMPLETE AND FULLY FUNCTIONAL SYSTEM IS INSTALLED.
- ALL ELECTRICAL EQUIPMENT INSTALLED WITHIN A 10FT ENVELOPE AROUND THE BAR SCREEN EQUIPMENT AND OPEN CHANNEL SHALL BE CLASS I DIVISION 2, INCLUDING CONDUIT SEAL OFFS (REFERENCE NFPA 820).
- MANUFACTURER WILL PROVIDE A 480 VAC U.L. LISTED PANEL IN A NEMA 4X STAINLESS STEEL ENCLOSURE WHICH MUST BE MOUNTED OUTSIDE THE HAZARDOUS AREA.
- ACCESSORIES FURNISHED BY THE SCREENING MANUFACTURER SHALL BE INSTALLED AND WIRED COMPLETE BY THE CONTRACTOR.
- PROVIDE SUFFICIENT FLEXIBILITY IN WATER AND CONDUIT CONNECTIONS TO ALLOW FOR BASKET TO BE ROTATED OUT OF CHANNEL FOR MAINTENANCE.
- BAR SCREEN PANEL SHALL PROVIDE 120VAC FOR HEAT TRACE. CONTRACTOR SHALL INSTALL HEAT TRACING AS REQUIRED BY THE MANUFACTURER.

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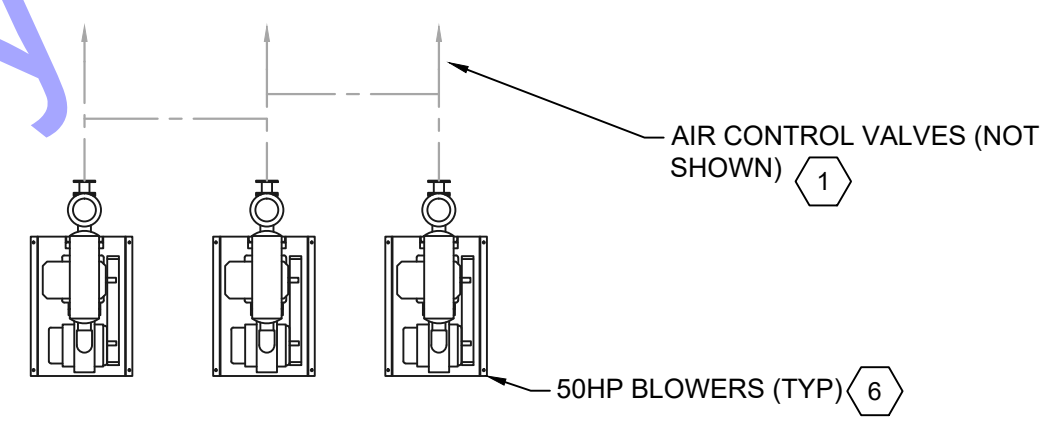
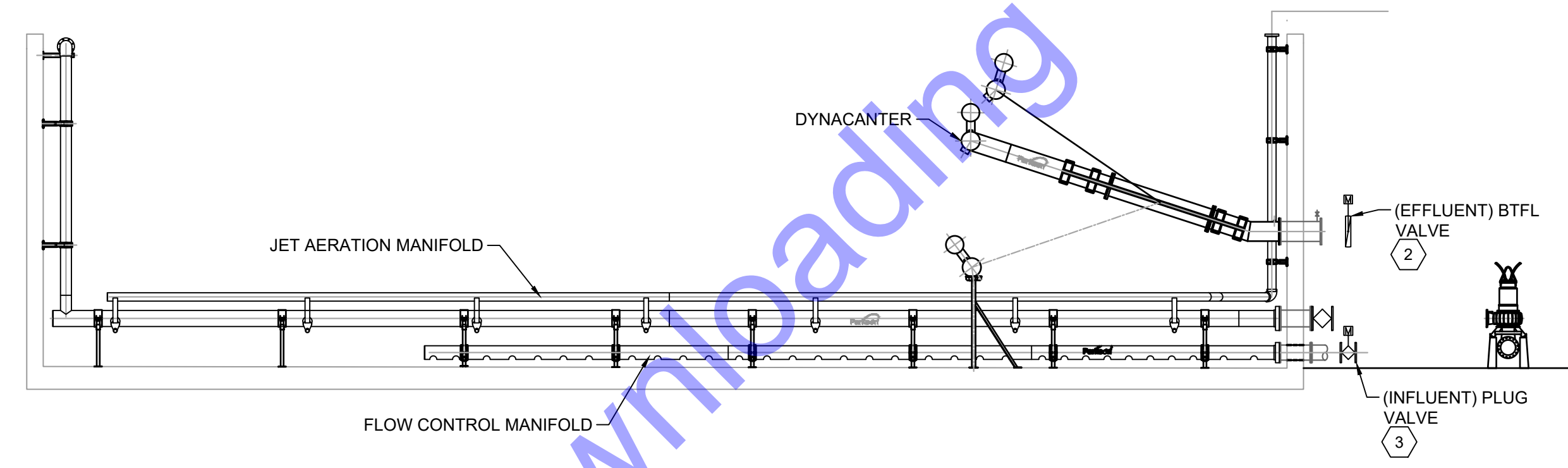
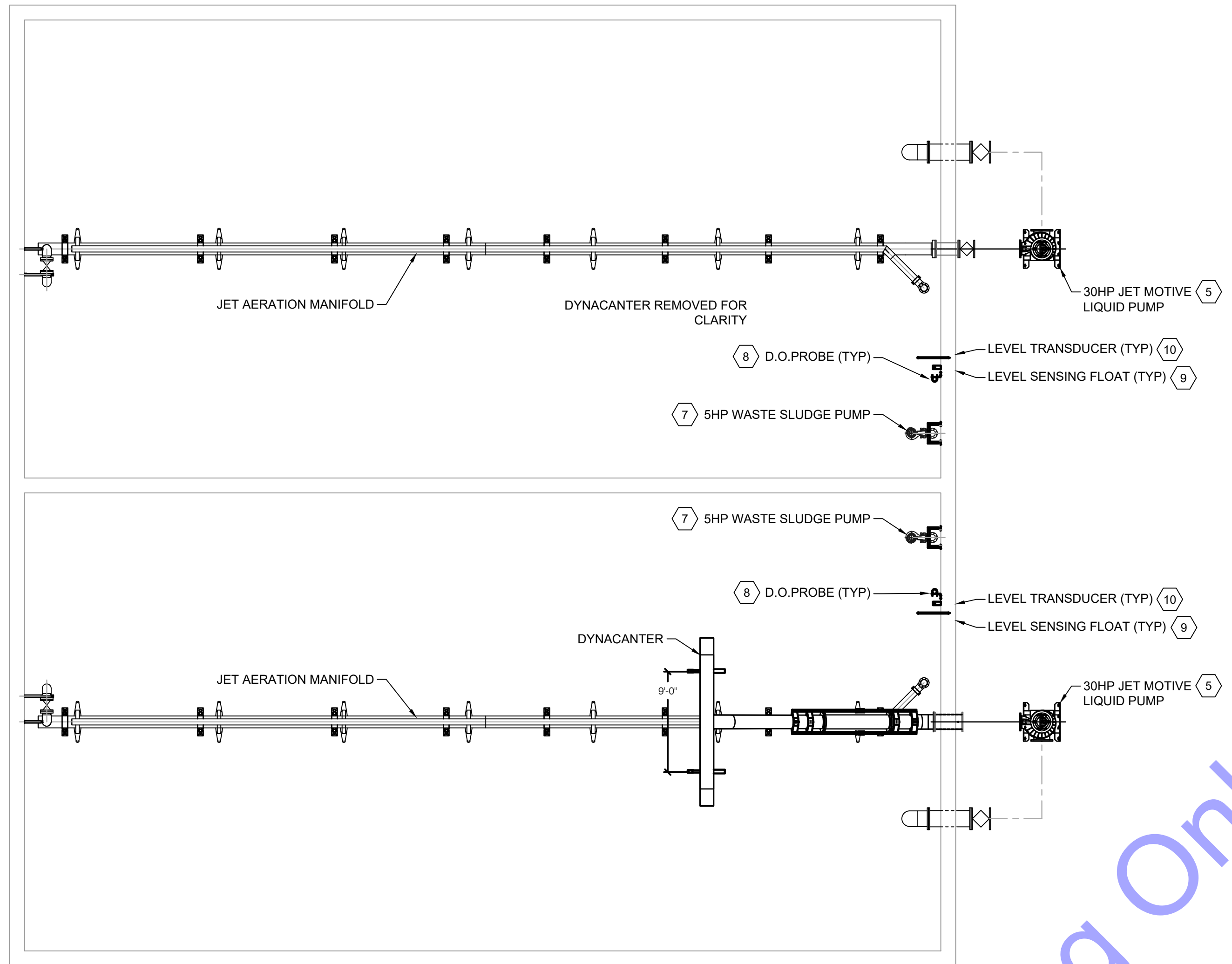
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BAR SCREEN CONTROL PANEL WIRING



ELECTRICAL NOTES:

SBR: ALL ELECTRICAL EQUIPMENT SHALL BE CLASS I DIVISION 2, INCLUDING CONDUIT SEAL OFFS, IF INSTALLED IN THE FOLLOWING LOCATIONS (REFERENCE 2020 NFPA 820): INTERIOR OF THE SBR TANK FROM THE MINIMUM OPERATING WATER SURFACE TO THE TOP OF THE TANK WALL; ENVELOPE 18IN. ABOVE THE TOP OF THE SBR TANK AND EXTENDING 18IN. BEYOND THE EXTERIOR WALL; ENVELOPE 18IN. ABOVE GRADE EXTENDING 10FT HORIZONTALLY FROM THE EXTERIOR SBR TANK WALLS.

ANY DISCONNECT BOXES SHOWN ARE TO BE SUPPLIED AND INSTALLED BY CONTRACTOR.

BASIS OF DESIGN IS PARKSON CORPORATION. DRAWINGS PROVIDED BY SBR MANUFACTURER AND ARE GENERIC IN NATURE AND PROVIDED AS A REFERENCE FOR CONTRACTOR CONVENIENCE. CONTRACTOR SHALL COORDINATE WITH SBR MANUFACTURER DURING BIDDING AND CONSTRUCTION TO ENSURE A COMPLETE AND FUNCTIONAL SYSTEM IS PROVIDED. REFER TO PROCESS AND INSTRUMENTATION DRAWINGS FOR ADDITIONAL WIRING INFORMATION REGARDING EQUIPMENT NOT SHOWN THIS PAGE, INCLUDING VARIABLE FREQUENCY DRIVES, SOFT STARTERS, MOTOR STARTERS, MAGNETIC FLOW METERS, AND AIR FLOW METERS.

1 AIR CONTROL VALVES SHALL BE MANUAL. CONTRACTOR SHALL COORDINATE WITH SBR MANUFACTURER AS REQUIRED.

2 CONTRACTOR TO FURNISH AND INSTALL CONDUIT AND WIRE FROM SBR PANEL TO TWO (2) EFFLUENT CONTROL VALVES.

EACH EFFLUENT VALVE REQUIRES THREE (3) #12 THWN CONDUCTORS AND ONE (1) #12 THWN GROUND FOR THREE PHASE POWER.

EACH EFFLUENT VALVE REQUIRES SIX (6) #12 THWN CONDUCTORS AND ONE (1) #12 THWN GROUND FOR CONTROL WIRING.

POWER AND CONTROL AND TWISTED PAIR TO EFFLUENT VALVES SHALL BE IN SEPARATE CONDUITS.

3 CONTRACTOR TO FURNISH AND INSTALL CONDUIT AND WIRE FROM SBR PANEL TO TWO (2) INFLUENT VALVES.

EACH INFLUENT VALVE REQUIRES THREE (3) #12 THWN CONDUCTORS AND ONE (1) #12 THWN GROUND FOR THREE PHASE POWER.

EACH INFLUENT VALVE REQUIRES SIX (6) #12 THWN CONDUCTORS AND ONE (1) #12 THWN GROUND FOR CONTROL WIRING.

POWER AND CONTROL TO INFLUENT VALVES SHALL BE IN SEPARATE CONDUITS.

4 CONTRACTOR TO FURNISH AND INSTALL CONDUIT AND WIRE FROM SBR PANEL TO TWO (2) WAS FLOW VALVES.

EACH WAS FLOW VALVE REQUIRES THREE (3) #12 THWN CONDUCTORS AND ONE (1) #12 THWN GROUND FOR THREE PHASE POWER.

EACH WAS FLOW VALVE REQUIRES SIX (6) #12 THWN CONDUCTORS AND ONE (1) #12 THWN GROUND FOR CONTROL WIRING.

POWER AND CONTROL TO WAS FLOW VALVES SHALL BE IN SEPARATE CONDUITS.

5 CONTRACTOR TO FURNISH AND INSTALL CONDUIT AND WIRE FROM SBR PANEL TO TWO (2) JET MOTIVE PUMPS. EACH JET MOTIVE PUMP REQUIRES THREE (3) #4 THWN CONDUCTORS AND ONE (1) #8 GROUND FOR THREE PHASE POWER.

EACH JET MOTIVE PUMP REQUIRES TWO (2) #12 THWN CONDUCTORS AND ONE (1) #12 THWN GROUND FOR PUMP SAFETIES.

6 CONTRACTORS TO FURNISH CONDUIT AND WIRE FROM SBR PANEL TO THREE (3) BLOWERS. EACH BLOWER REQUIRES THREE (3) #2/0 THWN CONDUCTORS AND ONE (1) #6 GROUND FOR THREE PHASE POWER.

EACH BLOWER SHALL HAVE A HIGH TEMPERATURE SWITCH WIRED BACK TO THE VFD TO STOP BLOWER ON HIGH TEMPERATURE CONDITION. CONTRACTOR TO PROVIDE CONDUIT AND WIRE. TWO (2) #12 THWN CONDUCTORS AND ONE (1) #12 THWN GROUND.

EACH BLOWER REQUIRES TWO (2) TWISTED SHIELDED PAIR CABLE.

CONTRACTOR RESPONSIBLE FOR ANY ADDITIONAL WIRING NEEDED FOR BLOWER SAFETIES.

CONTRACTOR TO ENSURE DISCONNECT SWITCH HAS AUXILIARY CONTACTS TO STOP VFD WHEN DISCONNECT IS OPENED.

7 CONTRACTOR TO FURNISH AND INSTALL CONDUIT AND WIRE FROM SBR PANEL TO TWO (2) SLUDGE PUMPS. EACH PUMP REQUIRES THREE (3) #12 THWN CONDUCTORS AND ONE (1) #12 GROUND FOR THREE PHASE POWER.

EACH SLUDGE PUMP REQUIRES FOUR (4) #12 THWN CONDUCTORS AND ONE (1) #12 THWN GROUND FOR SUBMERSIBLE PUMP SAFETIES (SEAL LEAK, OVER-TEMP).

8 CONTRACTOR TO FURNISH AND INSTALL CONDUIT AND WIRE FROM SBR PANEL TO TWO (2) DISSOLVED OXYGEN TRANSMITTERS. EACH DISSOLVED OXYGEN TRANSMITTER REQUIRES TWO (2) #12 THWN CONDUCTORS AND ONE (1) #12 GROUND.

EACH DISSOLVED OXYGEN TRANSMITTER REQUIRES ONE (1) #16 TWISTED SHIELDED PAIR FOR TRANSMITTER OUTPUT.

9 CONTRACTOR TO FURNISH AND INSTALL CONDUIT FROM SBR PANEL TO TWO (2) FLOAT SWITCHES). EACH FLOAT SWITCH REQUIRES TWO (2) #12 THWN CONDUCTORS AND ONE (1) #12 THWN GROUND.

10 CONTRACTOR TO FURNISH AND INSTALL CONDUIT AND WIRE FROM SBR PANEL TO TWO (2) SUBMERSIBLE LEVEL TRANSMITTERS. EACH SUBMERSIBLE LEVEL TRANSMITTER REQUIRES ONE (1) #16 TWISTED SHIELDED PAIR CABLE.

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 No. 11300603
 STATE OF INDIANA

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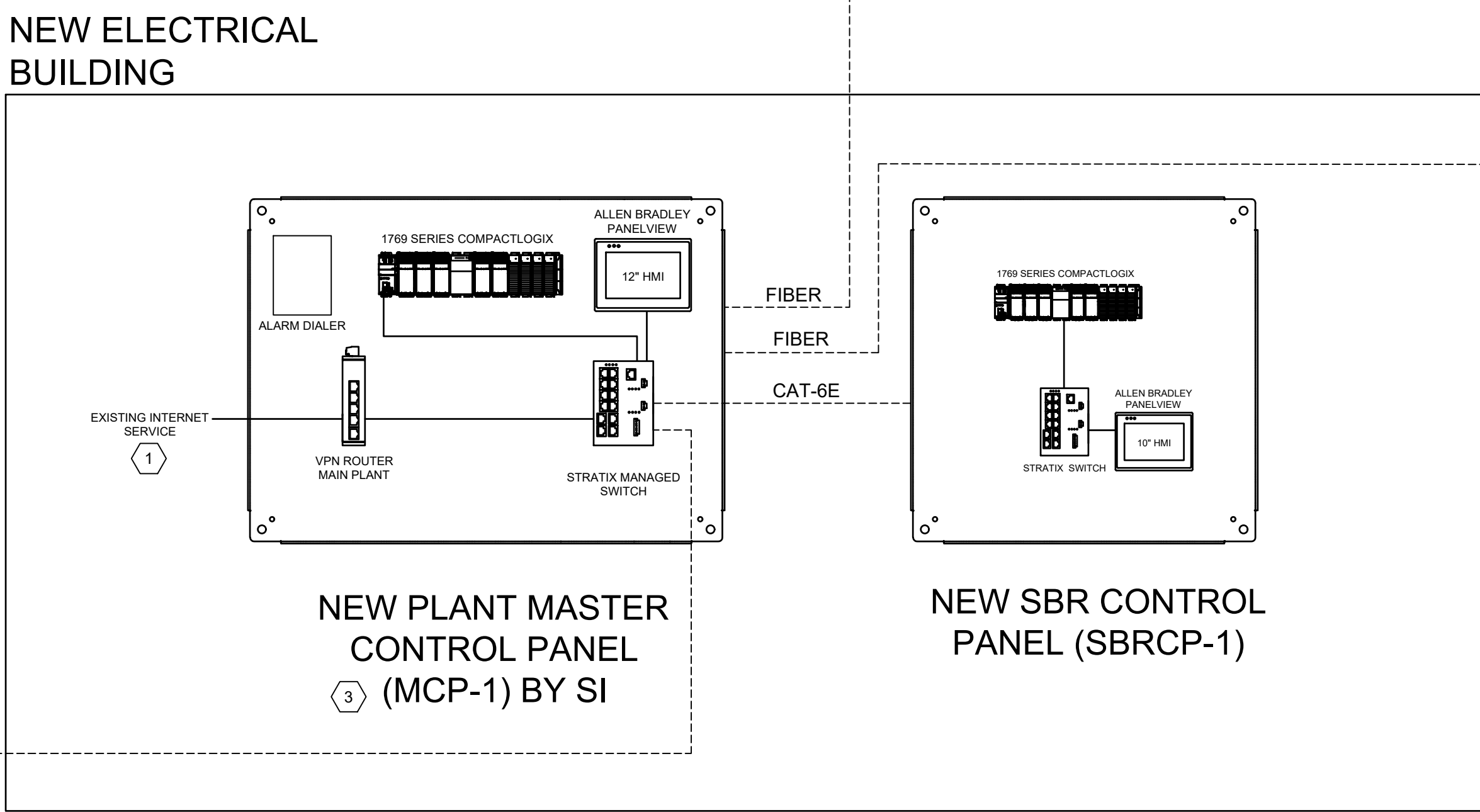
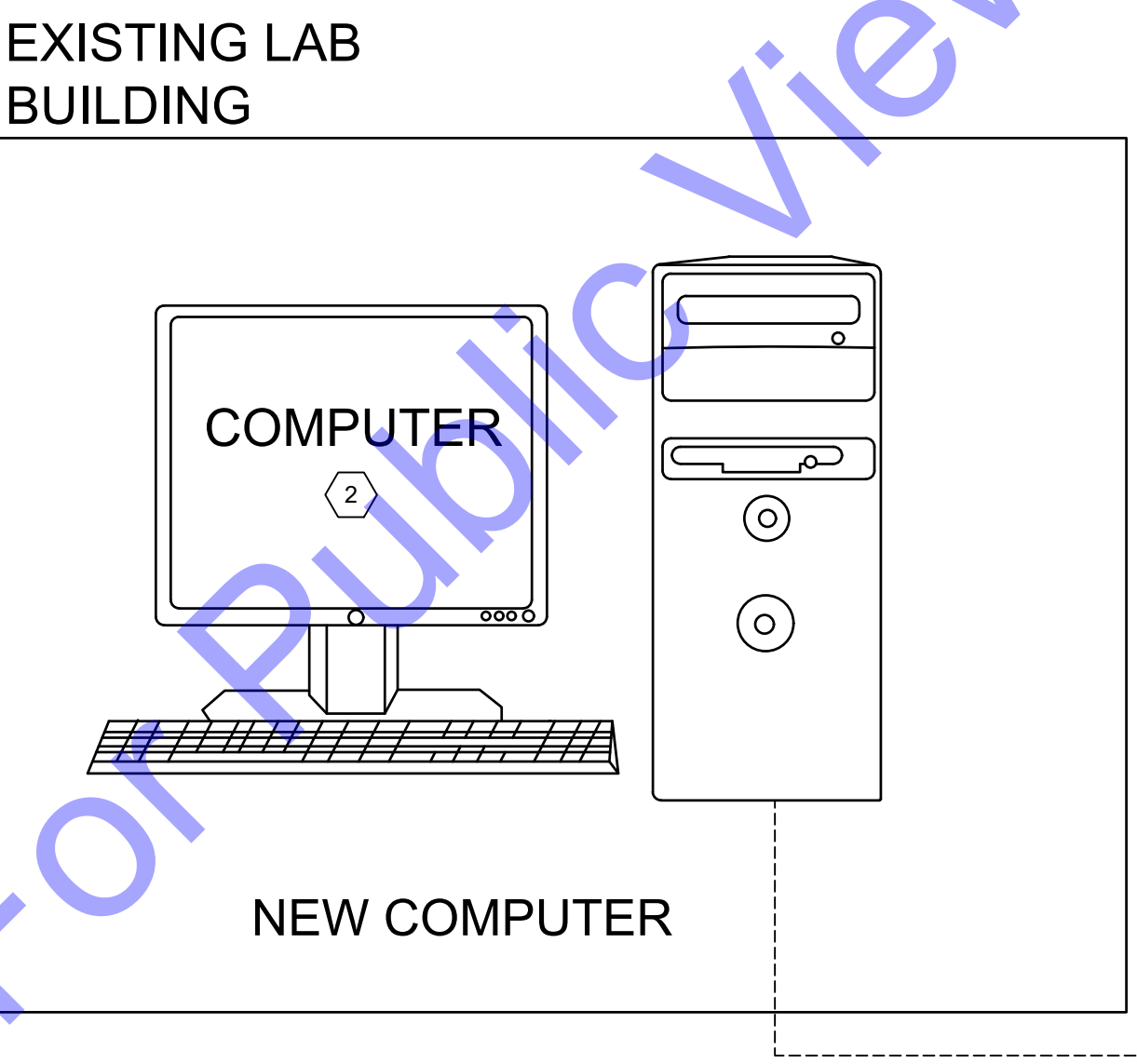
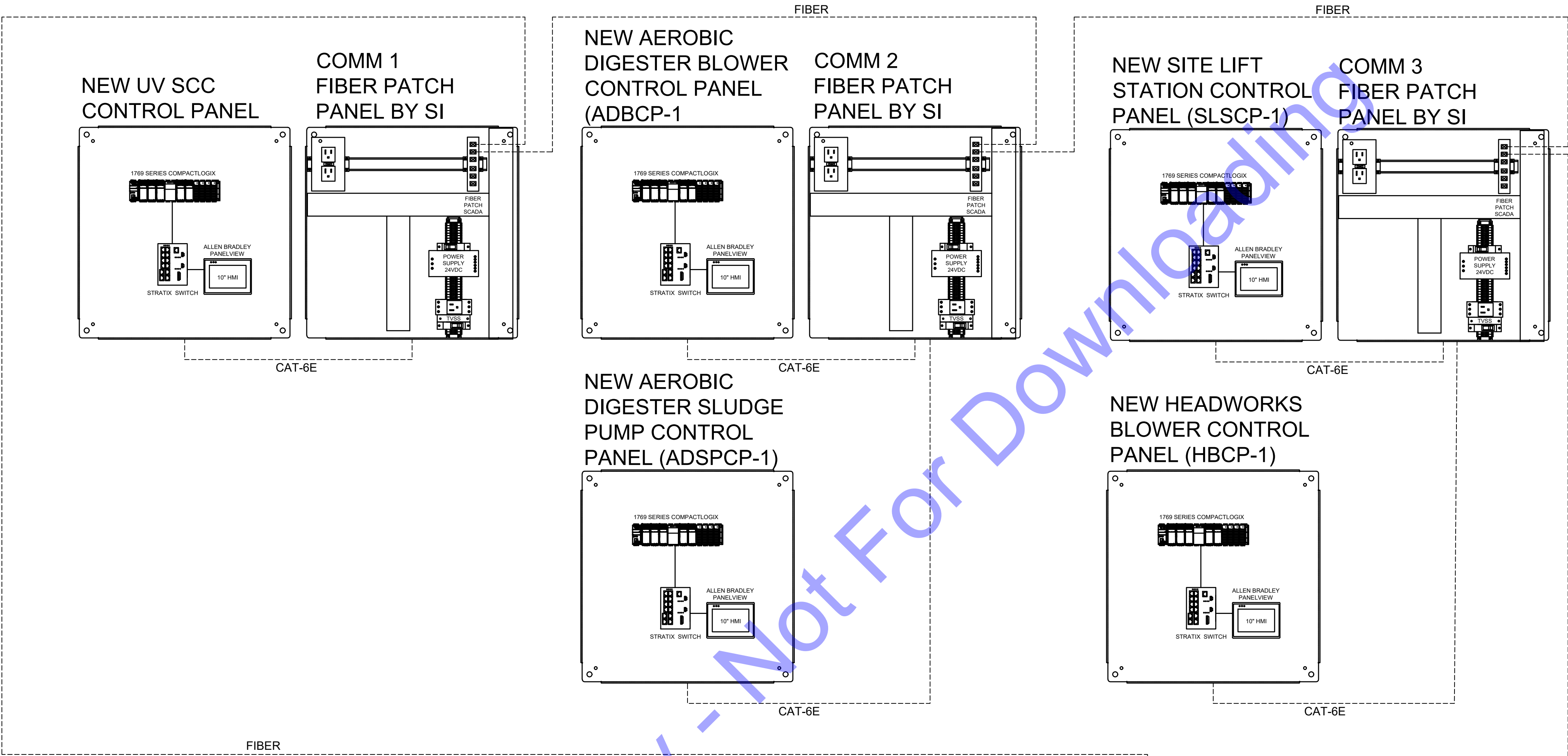
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SBR ELECTRICAL PLAN

Drawing No: **E5-0**

Sheet: 167 OF 177

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- GENERAL NOTES:**
- IF LENGTH OF CAT 6e CABLE EXCEEDS 300 FEET MAXIMUM, CONTRACTOR IS TO PROVIDE FIBER OPTIC CABLE FOR COMMUNICATION INCLUDING ALL REQUIRED SIGNAL CONVERTERS AND CONNECTIONS.
- ELECTRICAL NOTES:**
- 1 SYSTEM INTEGRATOR SHALL COORDINATE WITH LOCAL INTERNET UTILITY REGARDING EXISTING SERVICE AS NECESSARY. SYSTEM INTEGRATOR SHALL PROVIDE ANY NETWORKING EQUIPMENT NOT OTHERWISE PROVIDED BY INTERNET UTILITY REQUIRED FOR INTEGRATION OF INTERNET TO PLANT EQUIPMENT.
 - 2 SYSTEM INTEGRATOR SHALL PROVIDE NEW SCADA COMPUTER FOR MONITORING AND CONTROL OF NEW SCADA SYSTEM, IN ADDITION TO THE MAIN CONTROL PANEL. SYSTEM INTEGRATOR SHALL PROVIDE ANY ANCILLARY EQUIPMENT NEEDED (ETHERNET SWITCH, FIBER CONVERTER, POWER SUPPLY, COMPUTER DOCK, ETC.) FOR CONNECTION OF COMPUTER TO MCP-1.
 - 3 MCP-1 SHALL SERVE AS THE FIBER PATCH PANEL, AS NECESSARY, FOR THE SBR CONTROL PANEL. SYSTEM INTEGRATOR SHALL PROVIDE ANY ANCILLARY EQUIPMENT NEEDED (ETHERNET SWITCH, FIBER CONVERTER, POWER SUPPLY, ETC.) FOR THE INTEGRATION OF THE SBR CONTROL PANEL INTO THE NEW FIBER RING.

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FOR LEE CHUCK
 REGISTERED PROFESSIONAL ENGINEER
 No. 11300603
 STATE OF INDIANA

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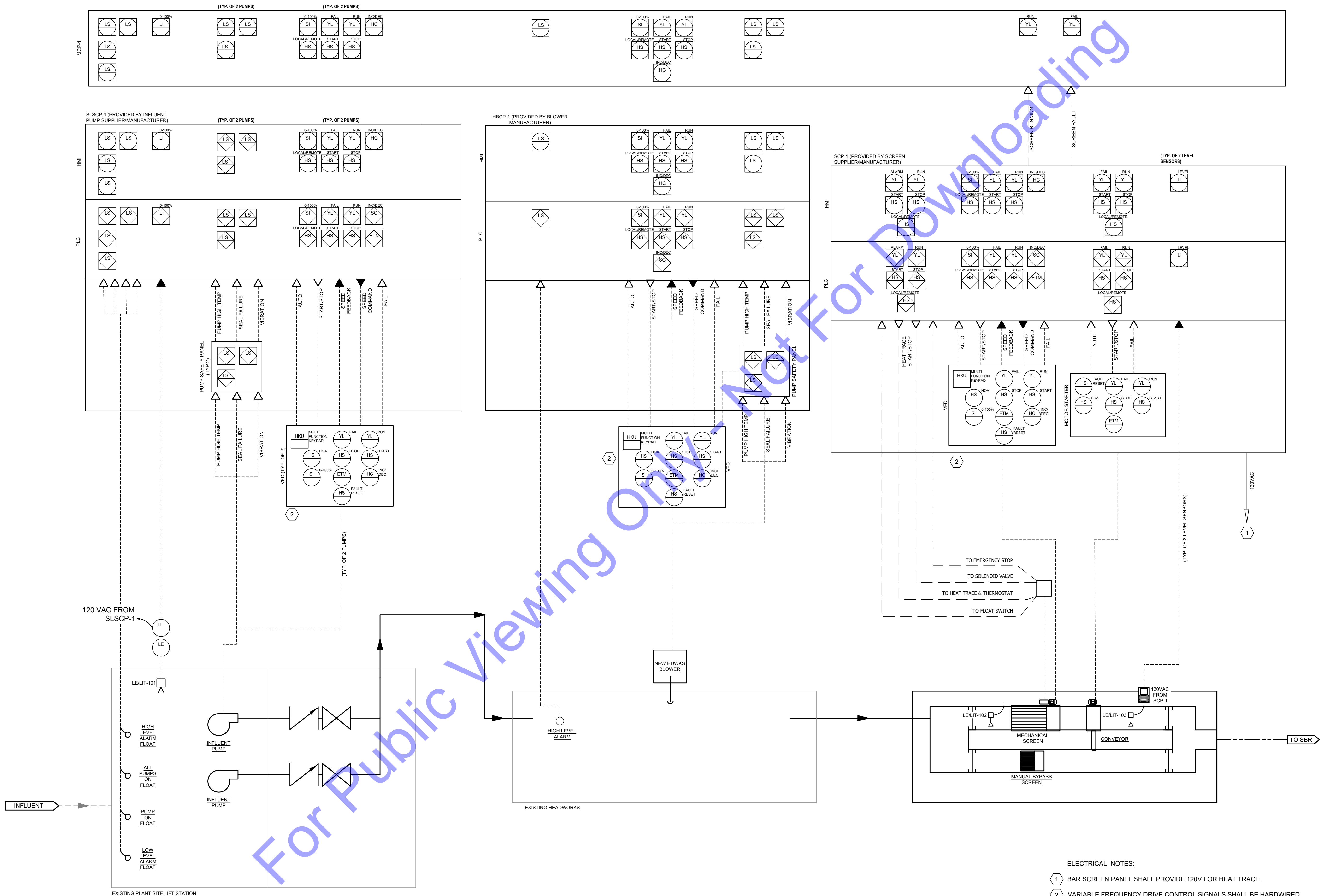
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NETWORK DIAGRAM



- ELECTRICAL NOTES:**
- ① BAR SCREEN PANEL SHALL PROVIDE 120V FOR HEAT TRACE.
 - ② VARIABLE FREQUENCY DRIVE CONTROL SIGNALS SHALL BE HARDWIRED. ETHERNET/IP CONNECTION BETWEEN DRIVE AND CONTROL PANEL IN LIEU OF HARDWIRING IS NOT ACCEPTABLE.

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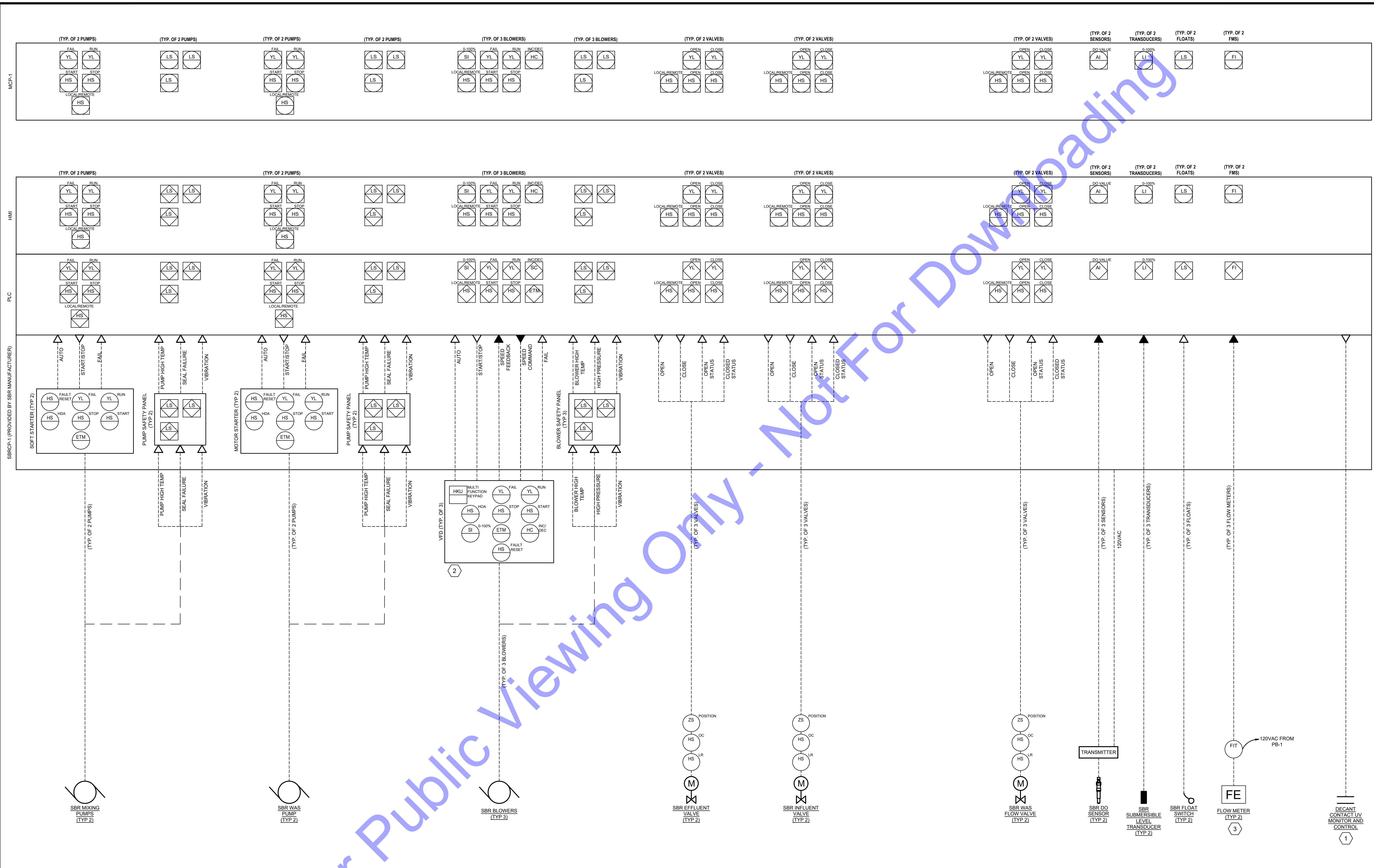
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PROCESS AND INSTRUMENTATION DRAWINGS

Drawing No:
E7-1
 Sheet: 170 OF 177



- ELECTRICAL NOTES:**
- SBR CONTROL PANEL SHALL SEND A SIGNAL TO THE UV SYSTEM TO CONTROL THE UV BASED ON DECANT. A SINGLE CONTACT ENERGIZED DURING DECANT (INCLUDING WARM-UP AND OFF DELAYS) WITH INTENSITY FACED PER THE EFFLUENT FLOW.
 - VARIABLE FREQUENCY DRIVE CONTROL SIGNALS SHALL BE HARDWIRED. ETHERNET/IP CONNECTION BETWEEN DRIVE AND CONTROL PANEL IN LIEU OF HARDWIRING IS NOT ACCEPTABLE.
 - FLOW METERS SHALL BE PROVIDED BY SYSTEM INTEGRATOR. SI SHALL COORDINATE WITH SBR MANUFACTURER WHEN SELECTING FLOW METERS.

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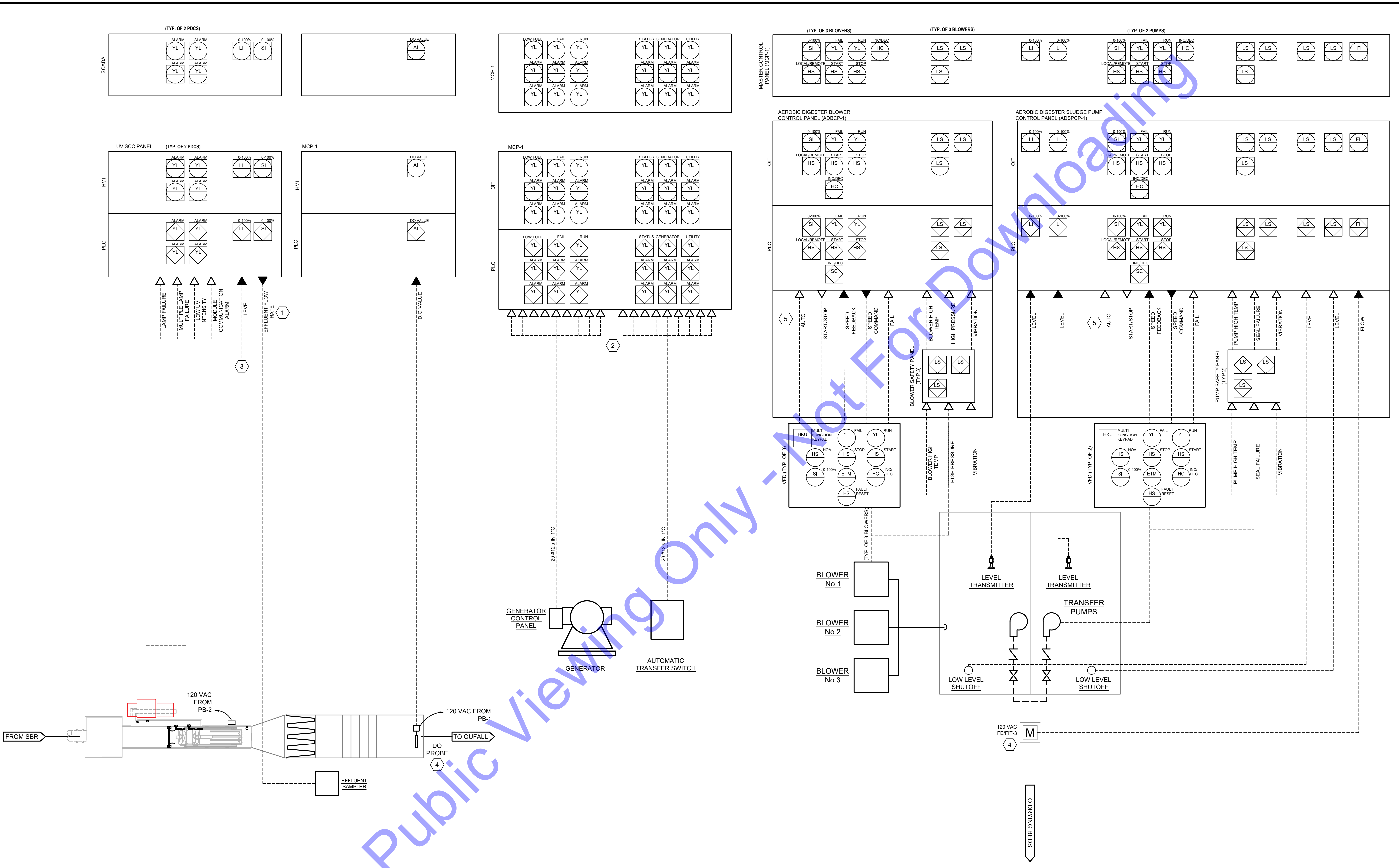
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PROCESS AND INSTRUMENTATION DRAWINGS

Drawing No:
E7-2

Sheet: 171 OF 177

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ELECTRICAL NOTES:

- 1 EFFLUENT FLOW METER SHALL BE PROVIDED BY SI AND THE ANALOG EFFLUENT FLOW SIGNAL SHALL BE RECEIVED BY THE SBR CONTROL PANEL. EFFLUENT FLOW SIGNAL IS AVAILABLE VIA ETHERNET CONNECTION TO MAIN SCADA SYSTEM FOR USE IN UV SYSTEM CONTROL AND TRANSMISSION TO EFFLUENT SAMPLER.
- 2 COORDINATE WITH GENERATOR AND ATS MANUFACTURER FOR ADDITIONAL DETAILS REGARDING GENERATOR AND ATS ALARMS.
- 3 LEVEL SIGNAL SHOWN HERE IN SCC FOR REFERENCE. UV LOW LEVEL SENSOR SHALL BE PHYSICALLY WIRED TO PDC. REFER TO E6-0 FOR ADDITIONAL UV WIRING DETAILS.
- 4 SYSTEM INTEGRATOR TO PROVIDE.
- 5 VARIABLE FREQUENCY DRIVE CONTROL SIGNALS SHALL BE HARDWIRED. ETHERNET/TIP CONNECTION BETWEEN DRIVE AND CONTROL PANEL IN LIEU OF HARDWIRING IS NOT ACCEPTABLE.

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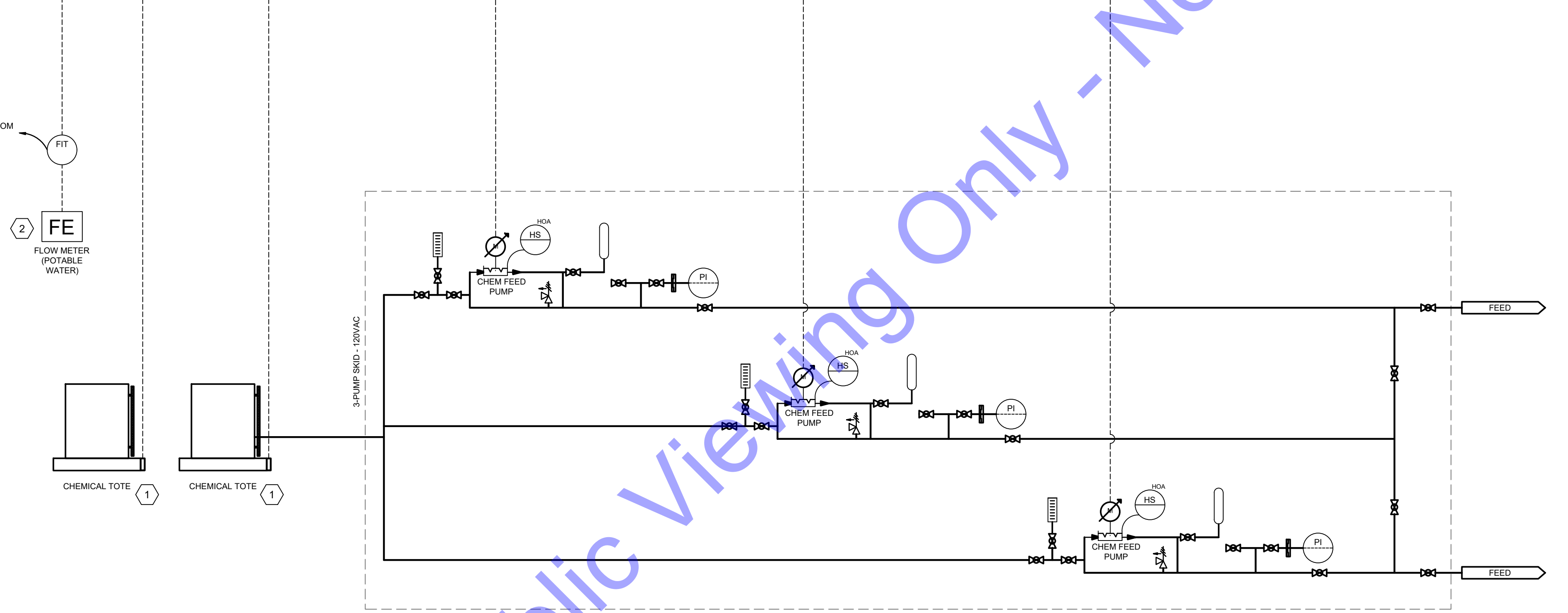
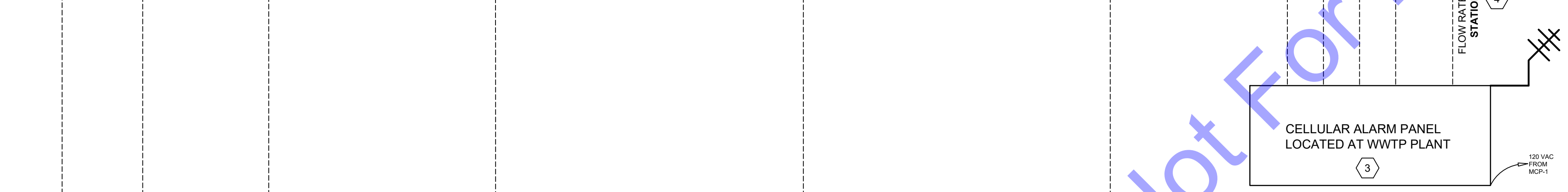
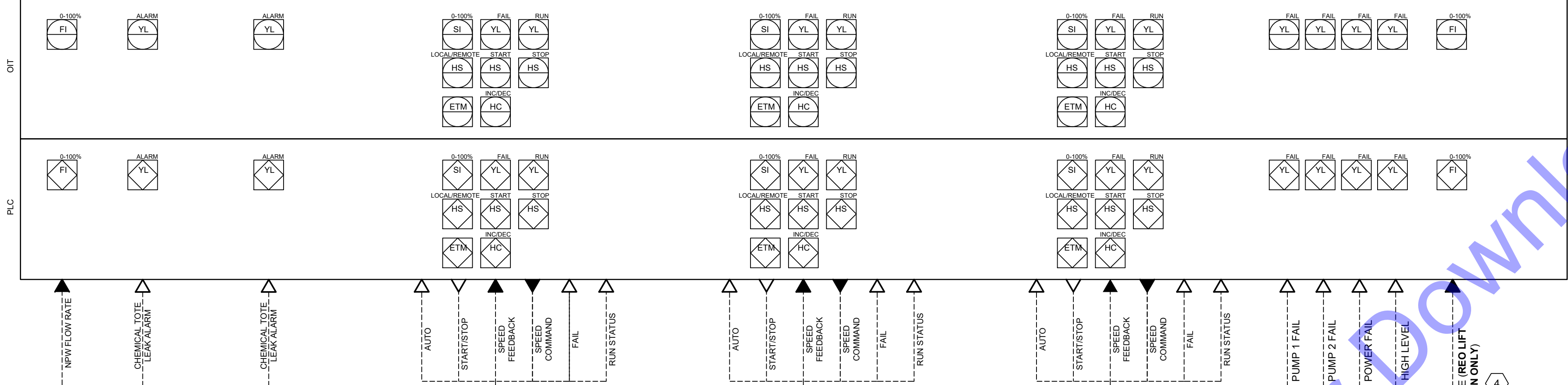
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Issue Date: JAN. 2024	Project No: S20107	Scale: AS SHOWN

PROCESS AND INSTRUMENTATION DRAWINGS

FILE: Z:\GARDEN IN CLIENTS\N.2000\PORTD.63107\WASTE WATER LTCP PHASE 4B CUPV.MECH.ELECTRICAL DRAWINGS\WYTP.DWG
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PLANT MASTER CONTROL PANEL
MCP-1



CELLULAR ALARM PANEL
LOCATED AT WWTP PLANT

ELECTRICAL NOTES:

- 1 SYSTEM INTEGRATOR TO PROVIDE FLOATS REQUIRED FOR LEAK ALARMS.
- 2 SYSTEM INTEGRATOR TO PROVIDE FLOW METER.
- 3 SYSTEM INTEGRATOR TO PROVIDE CELLULAR ALARMING EQUIPMENT.
- 4 PUMP #1 FAIL, PUMP #2 FAIL, HIGH LEVEL ALARM, AND POWER FAIL ARE TYPICAL OF FOUR LIFT STATIONS. ALL SIGNALS, FOR A TOTAL OF SIXTEEN (16) SHALL BE INTEGRATED INTO THE SCADA SYSTEM FOR MONITORING. PROVIDE I/O CARDS AND ADDITIONAL EQUIPMENT AS NECESSARY. FLOW SIGNAL SHOWN IS ONLY PRESENT AT REO LIFT STATION, AND IS TYPICAL OF ONE (1). FLOW SIGNAL SHALL ALSO BE INCORPORATED INTO MAIN SCADA FOR MONITORING.

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FOR LEE CHUCK
 REGISTERED PROFESSIONAL ENGINEER
 No. 11300603
 STATE OF INDIANA
 Signature: [Signature] Date: 03/22/2024

CITY OF ROCKPORT
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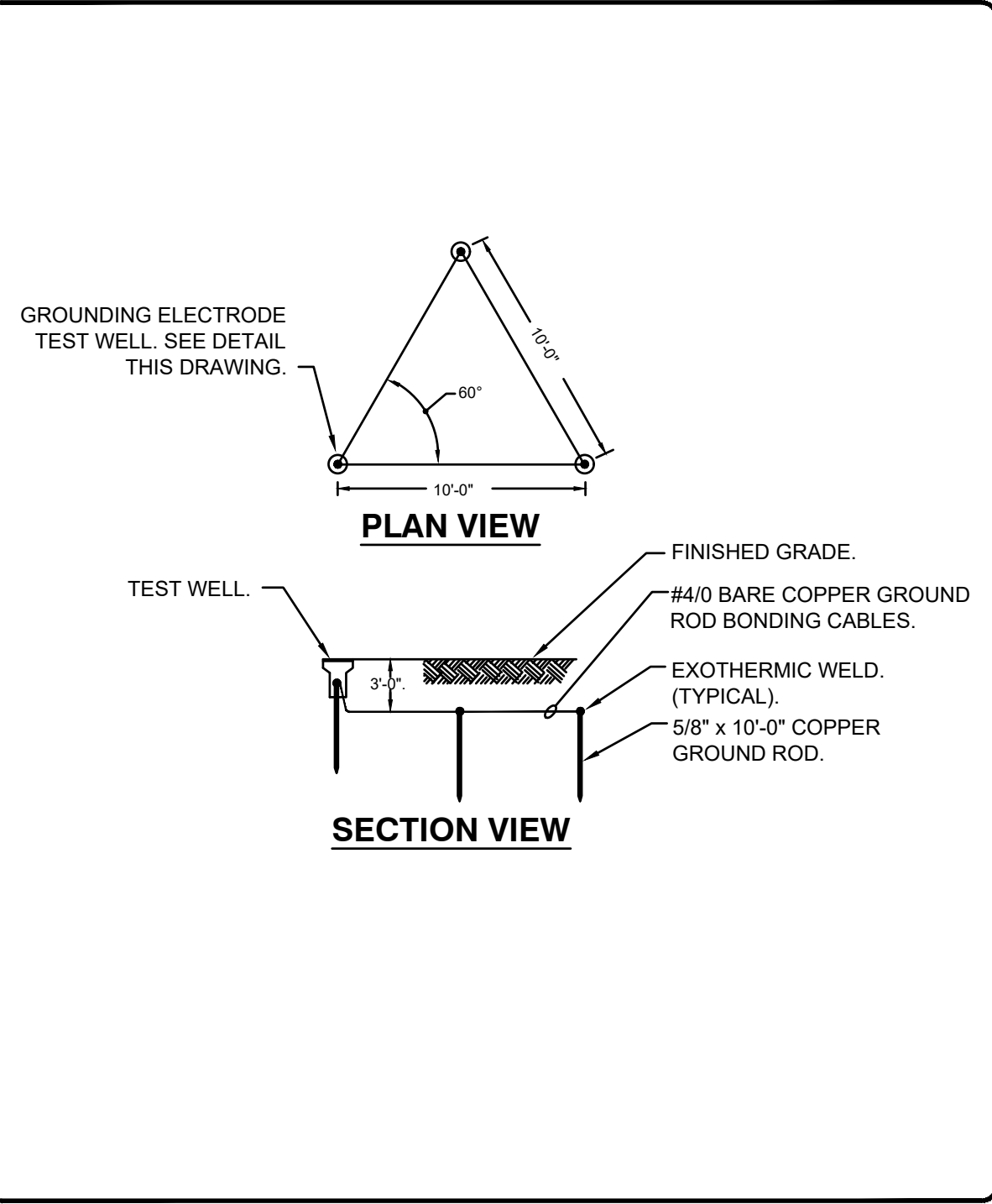
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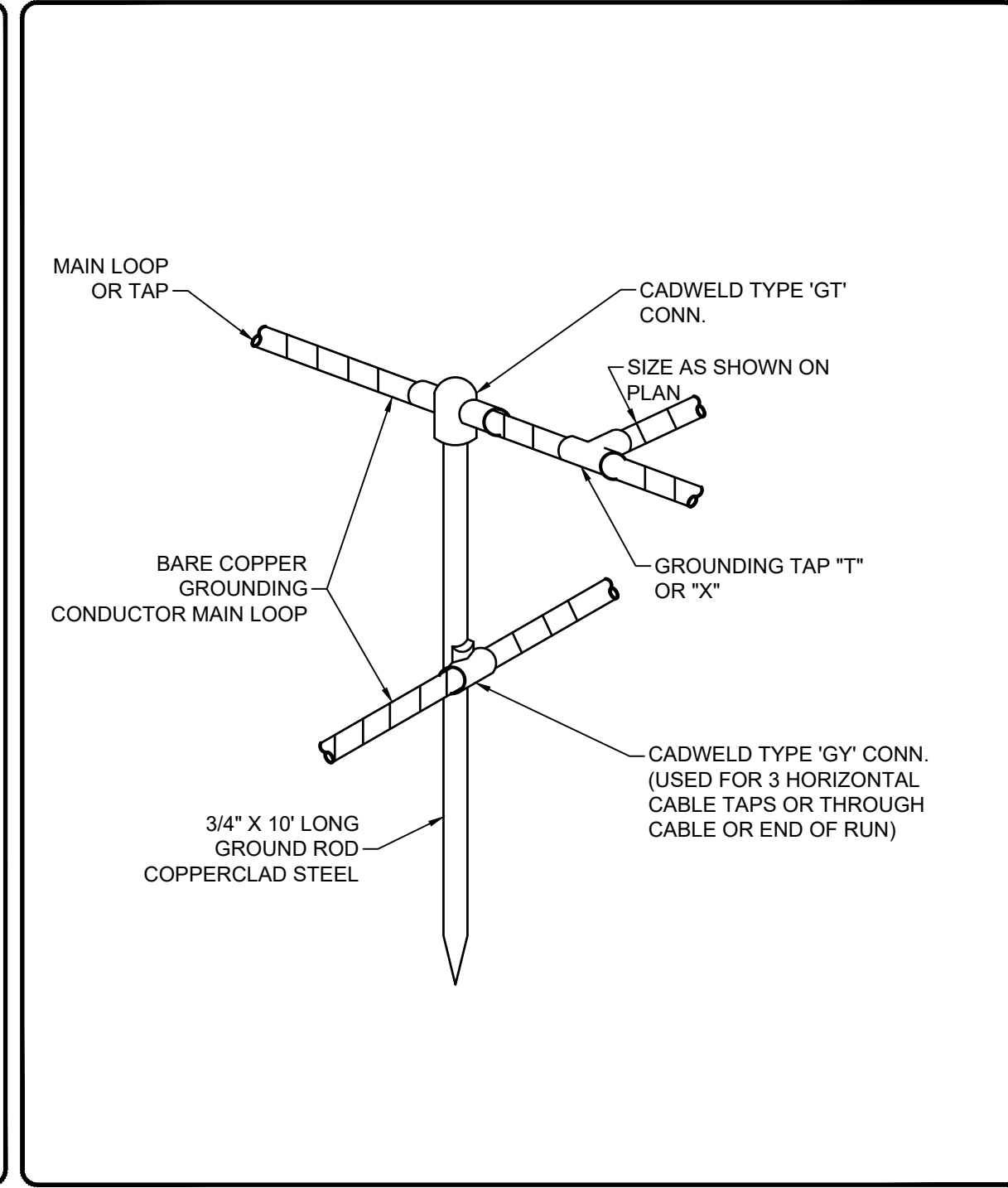
PROCESS AND INSTRUMENTATION DRAWINGS

Drawing No:
E7-4
 Sheet: 173 OF 177



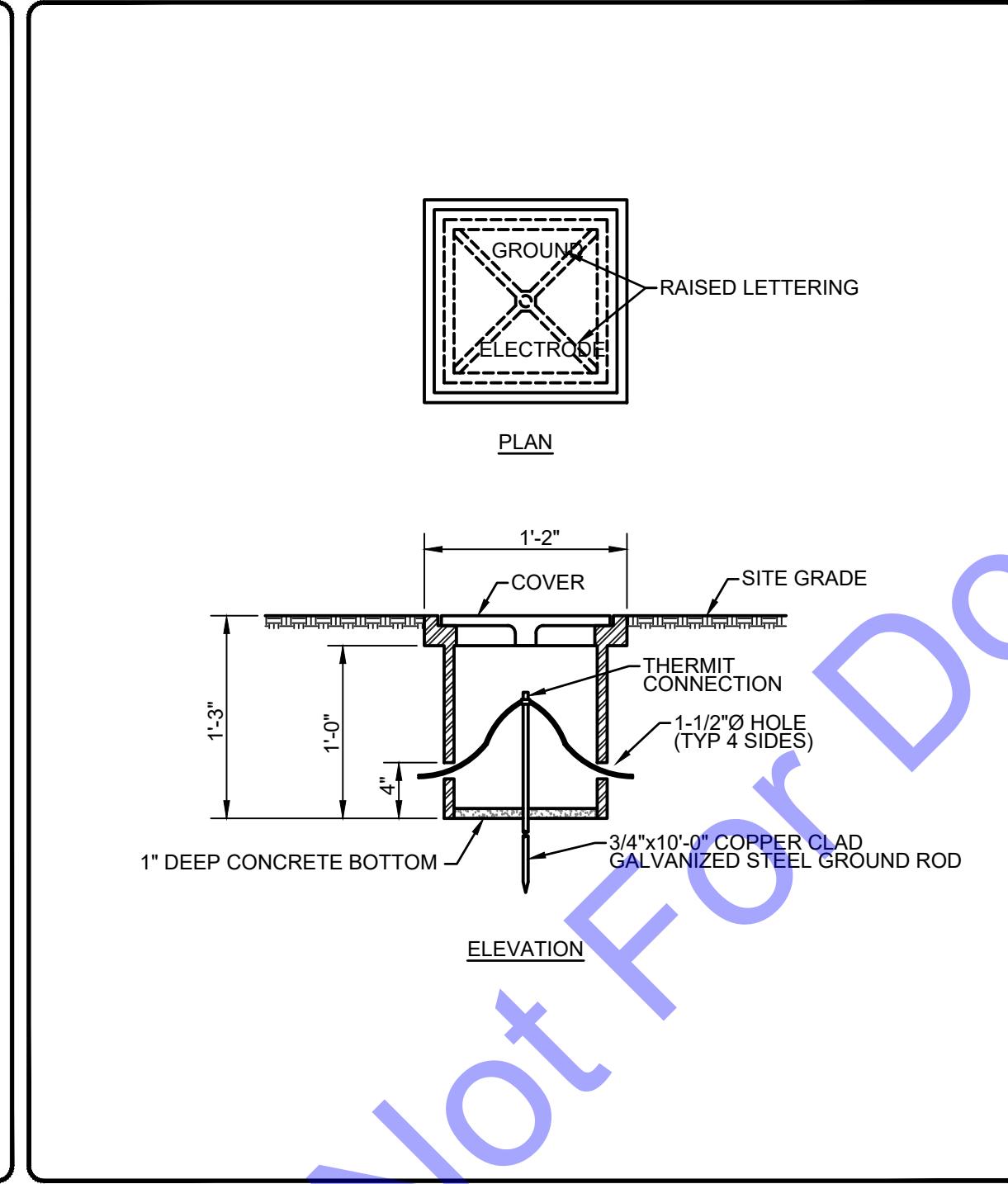
GROUNDING ELECTRODE SYSTEM

NOT TO SCALE



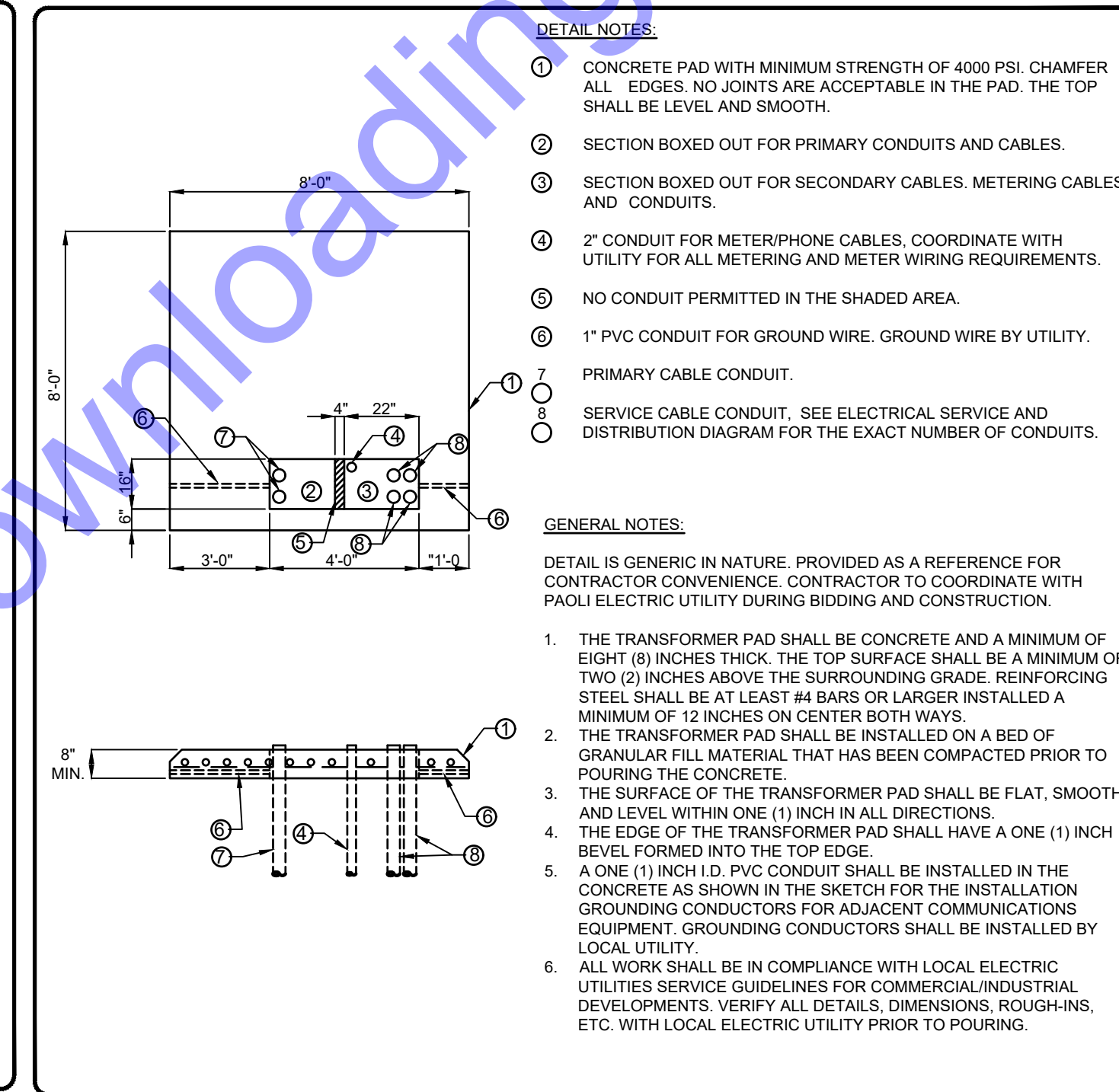
CONDUCTOR TO GROUND ROD CONNECTION DETAIL

NOT TO SCALE



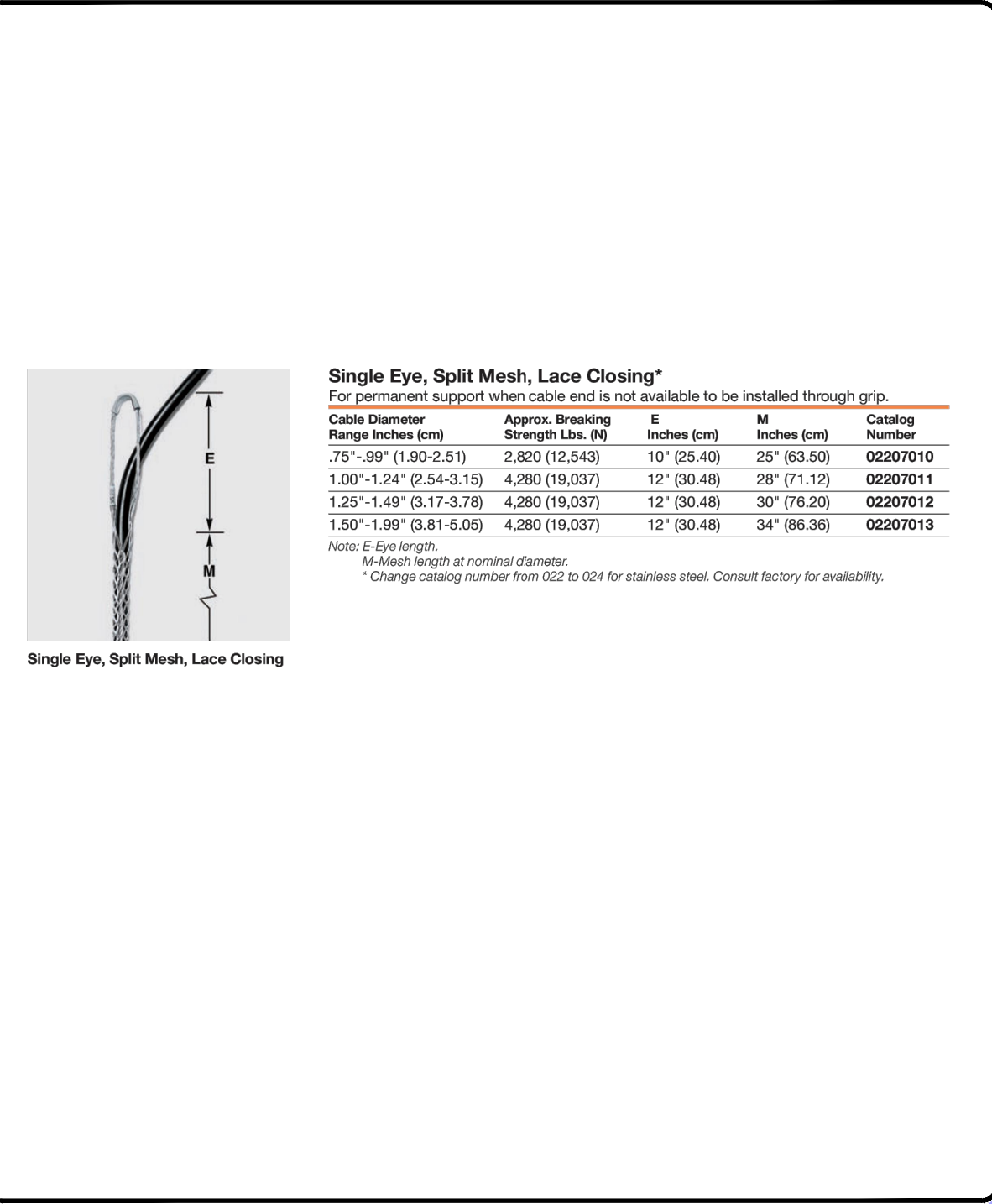
TYPICAL GROUND ROD AND ACCESS BOX DETAIL

NOT TO SCALE



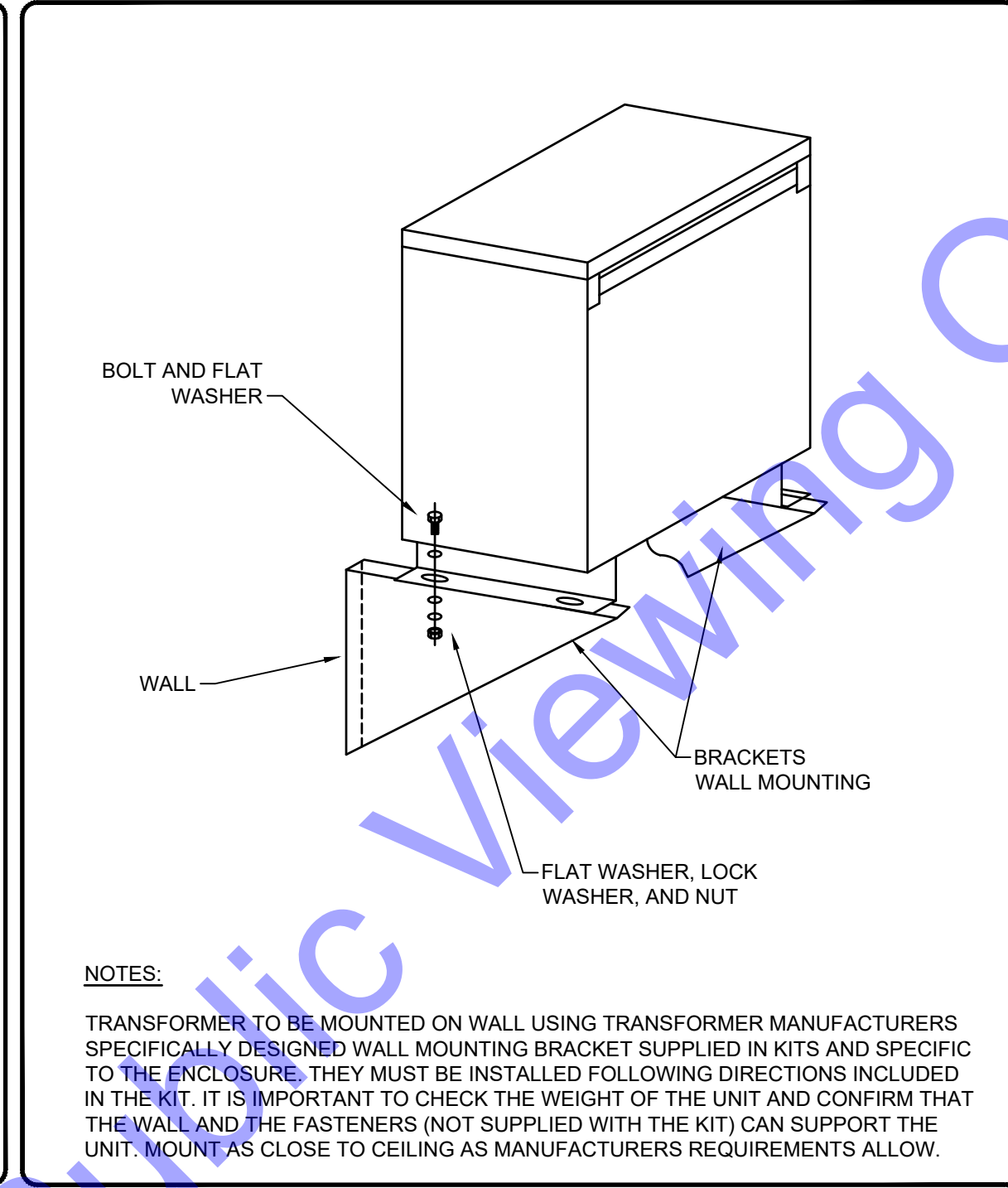
TRANSFORMER PAD DETAIL (GENERIC)

NOT TO SCALE



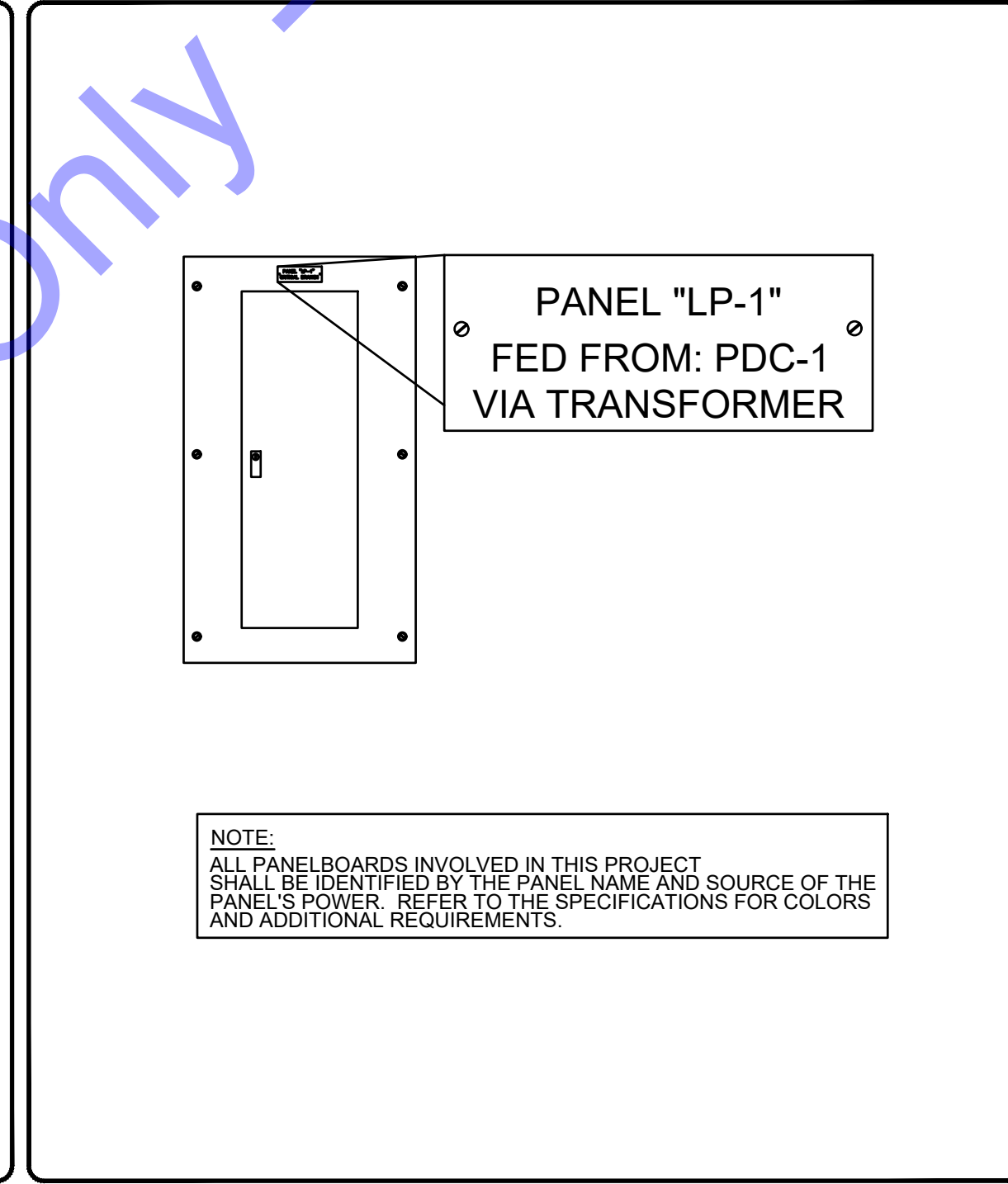
CABLE SUPPORT DETAIL

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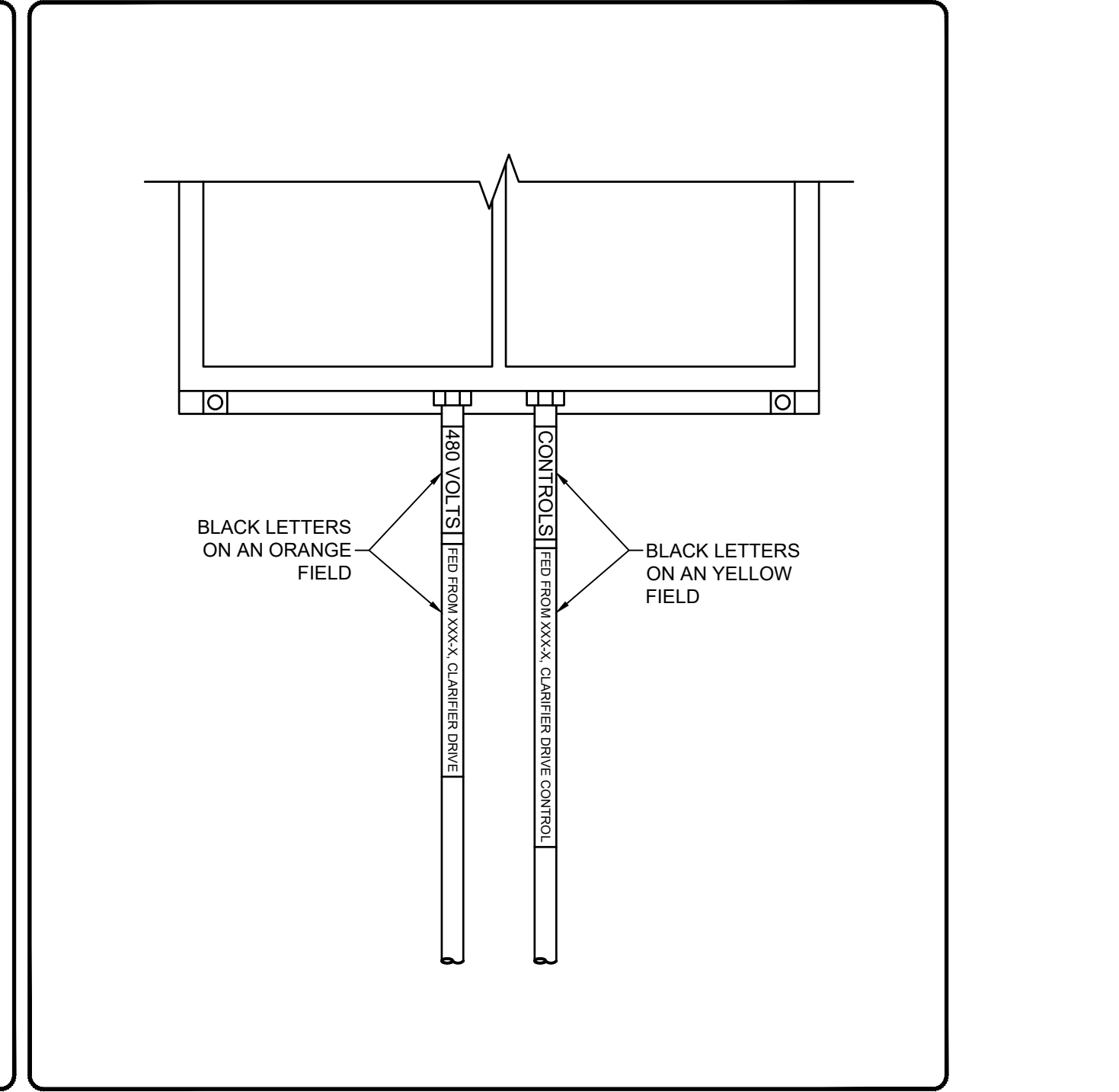
TRANSFORMER MOUNTING DETAIL

NOT TO SCALE



PANELBOARD IDENTIFICATION

NOT TO SCALE



CONDUIT IDENTIFICATION

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DETAIL NOTES:
 1. CONCRETE PAD WITH MINIMUM STRENGTH OF 4000 PSI. CHAMFER ALL EDGES. NO JOINTS ARE ACCEPTABLE IN THE PAD. THE TOP SHALL BE LEVEL AND SMOOTH.
 2. SECTION BOXED OUT FOR PRIMARY CONDUITS AND CABLES.
 3. SECTION BOXED OUT FOR SECONDARY CABLES, METERING CABLES AND CONDUITS.
 4. 2" CONDUIT FOR METER/PHONE CABLES. COORDINATE WITH UTILITY FOR ALL METERING AND METER WIRING REQUIREMENTS.
 5. NO CONDUIT PERMITTED IN THE SHADED AREA.
 6. 1" PVC CONDUIT FOR GROUND WIRE. GROUND WIRE BY UTILITY.
 7. PRIMARY CABLE CONDUIT.
 8. SERVICE CABLE CONDUIT. SEE ELECTRICAL SERVICE AND DISTRIBUTION DIAGRAM FOR THE EXACT NUMBER OF CONDUITS.

GENERAL NOTES:
 DETAIL IS GENERIC IN NATURE. PROVIDED AS A REFERENCE FOR CONTRACTOR CONVENIENCE. CONTRACTOR TO COORDINATE WITH PAOLI ELECTRIC UTILITY DURING BIDDING AND CONSTRUCTION.
 1. THE TRANSFORMER PAD SHALL BE CONCRETE AND A MINIMUM OF EIGHT (8) INCHES THICK. THE TOP SURFACE SHALL BE A MINIMUM OF TWO (2) INCHES ABOVE THE SURROUNDING GRADE. REINFORCING STEEL SHALL BE AT LEAST #4 BARS OR LARGER INSTALLED A MINIMUM OF 12 INCHES ON CENTER BOTH WAYS.
 2. THE TRANSFORMER PAD SHALL BE INSTALLED ON A BED OF GRANULAR FILL MATERIAL THAT HAS BEEN COMPACTED PRIOR TO POURING THE CONCRETE.
 3. THE SURFACE OF THE TRANSFORMER PAD SHALL BE FLAT, SMOOTH, AND LEVEL WITHIN ONE (1) INCH IN ALL DIRECTIONS.
 4. THE EDGE OF THE TRANSFORMER PAD SHALL HAVE A ONE (1) INCH BEVEL FORMED INTO THE TOP EDGE.
 5. A ONE (1) INCH I.D. PVC CONDUIT SHALL BE INSTALLED IN THE CONCRETE AS SHOWN IN THE SKETCH FOR THE INSTALLATION OF GROUNDING CONDUCTORS FOR ADJACENT COMMUNICATIONS EQUIPMENT. GROUNDING CONDUCTORS SHALL BE INSTALLED BY LOCAL UTILITY.
 6. ALL WORK SHALL BE IN COMPLIANCE WITH LOCAL ELECTRIC UTILITIES SERVICE GUIDELINES FOR COMMERCIAL/INDUSTRIAL DEVELOPMENTS. VERIFY ALL DETAILS, DIMENSIONS, ROUGH-INS, ETC. WITH LOCAL ELECTRIC UTILITY PRIOR TO POURING.

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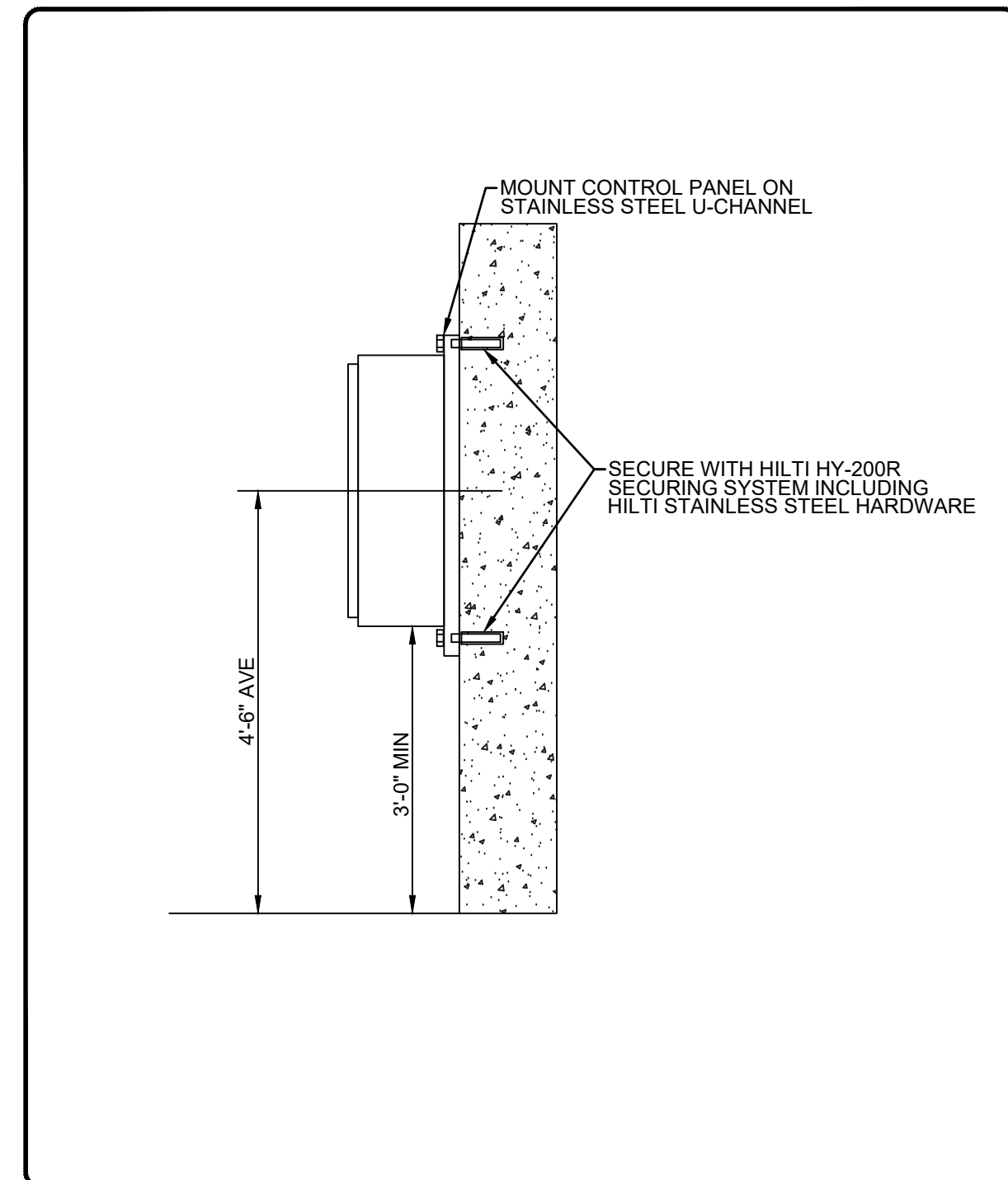
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ELECTRICAL DETAILS

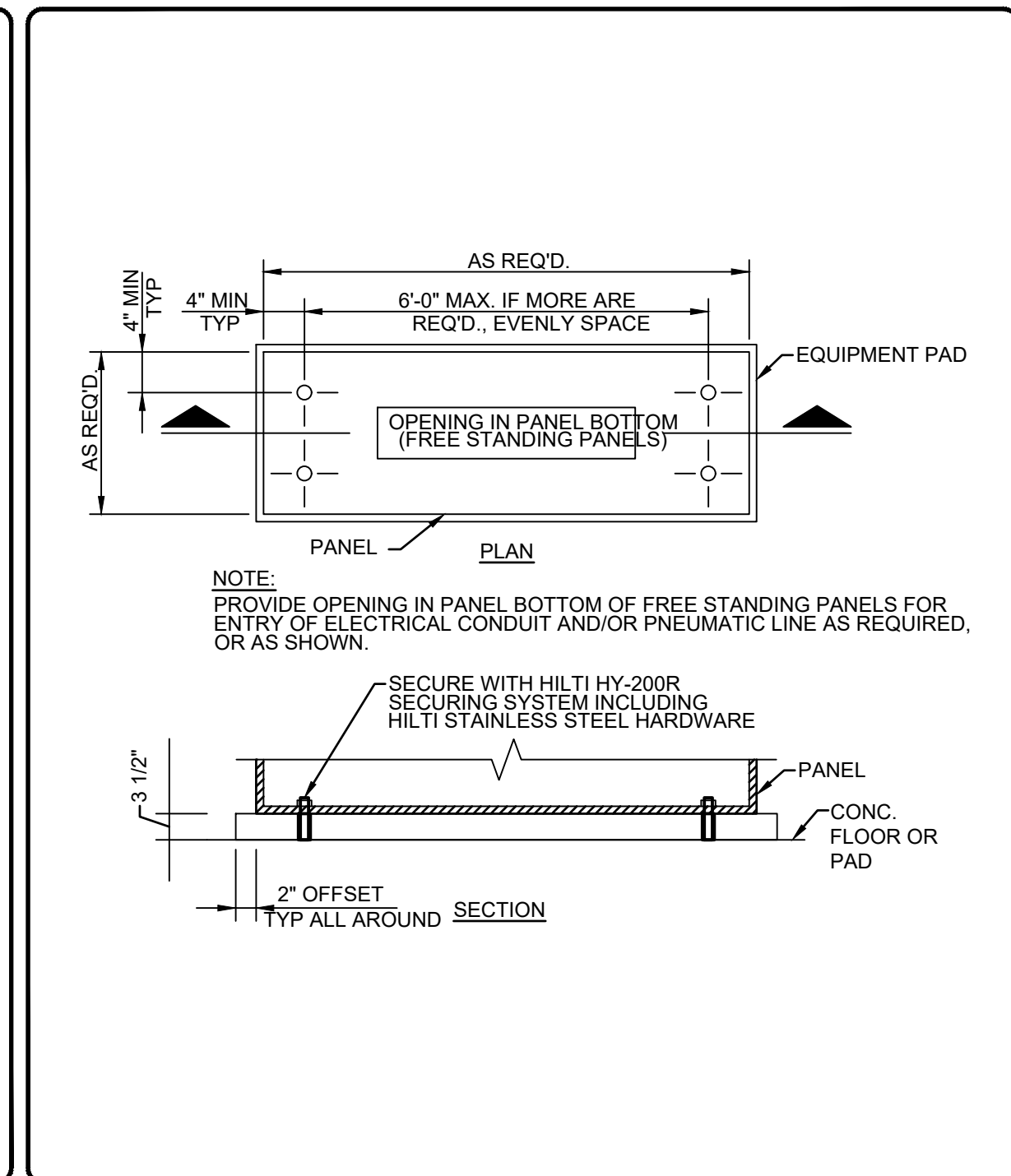
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 Sheet: 174 OF 177

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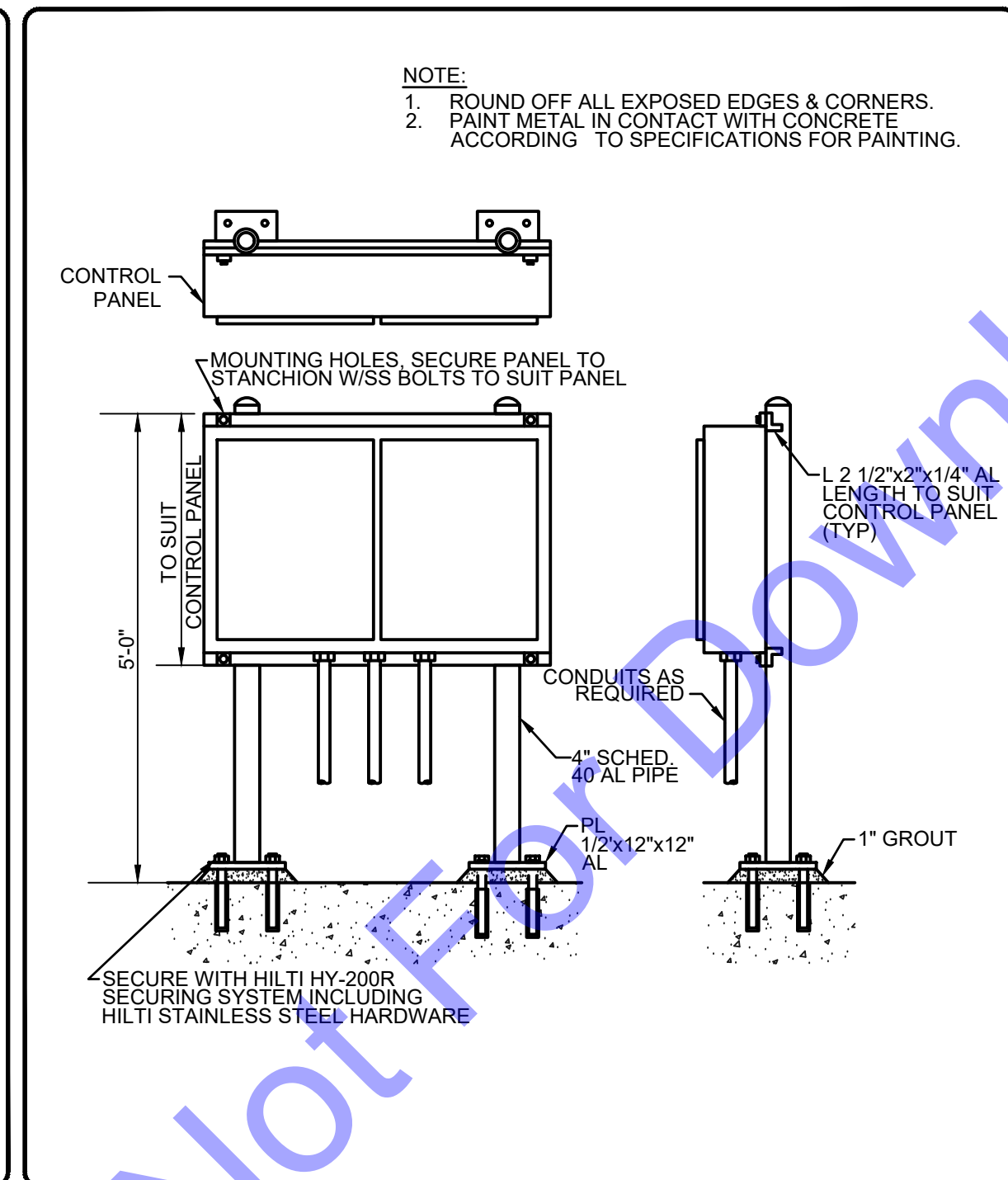
WALL MOUNT CONTROL PANEL INSTALLATION

NOT TO SCALE



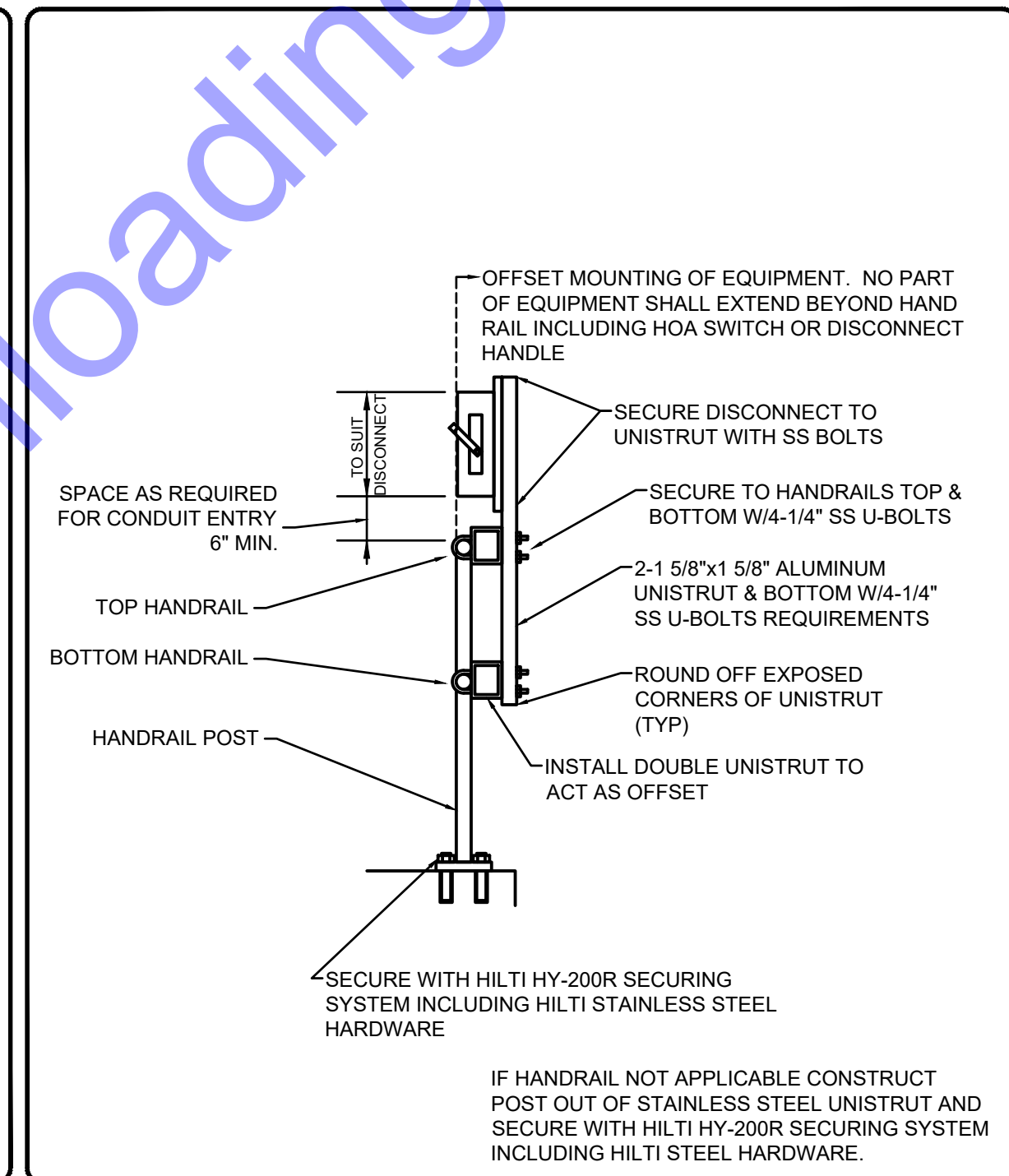
FREE STANDING OR FLOOR MOUNT CONTROL PANEL INSTALLATION

NOT TO SCALE



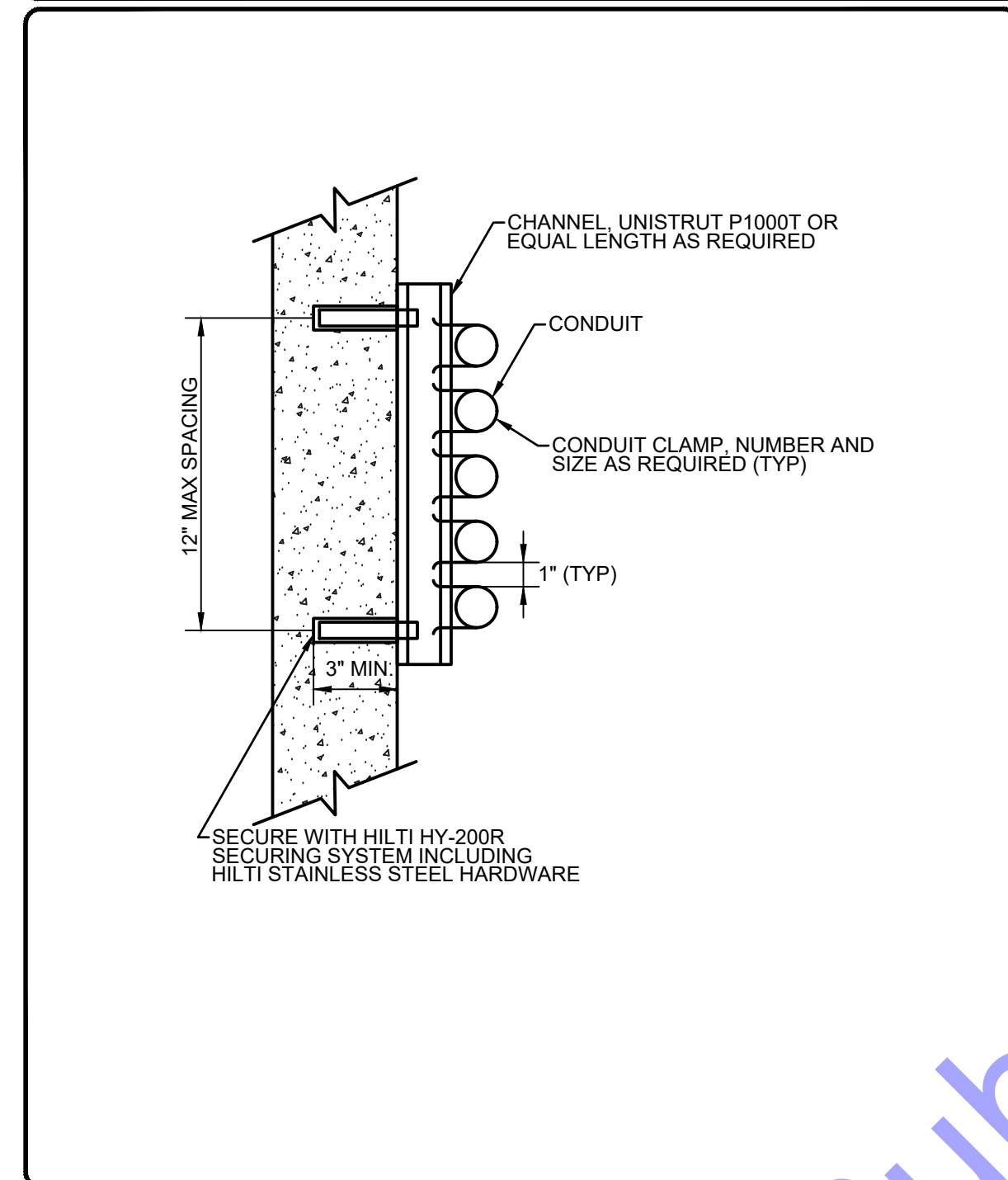
DOUBLE POST STANCHION MOUNT CONTROL PANEL INSTALLATION

NOT TO SCALE



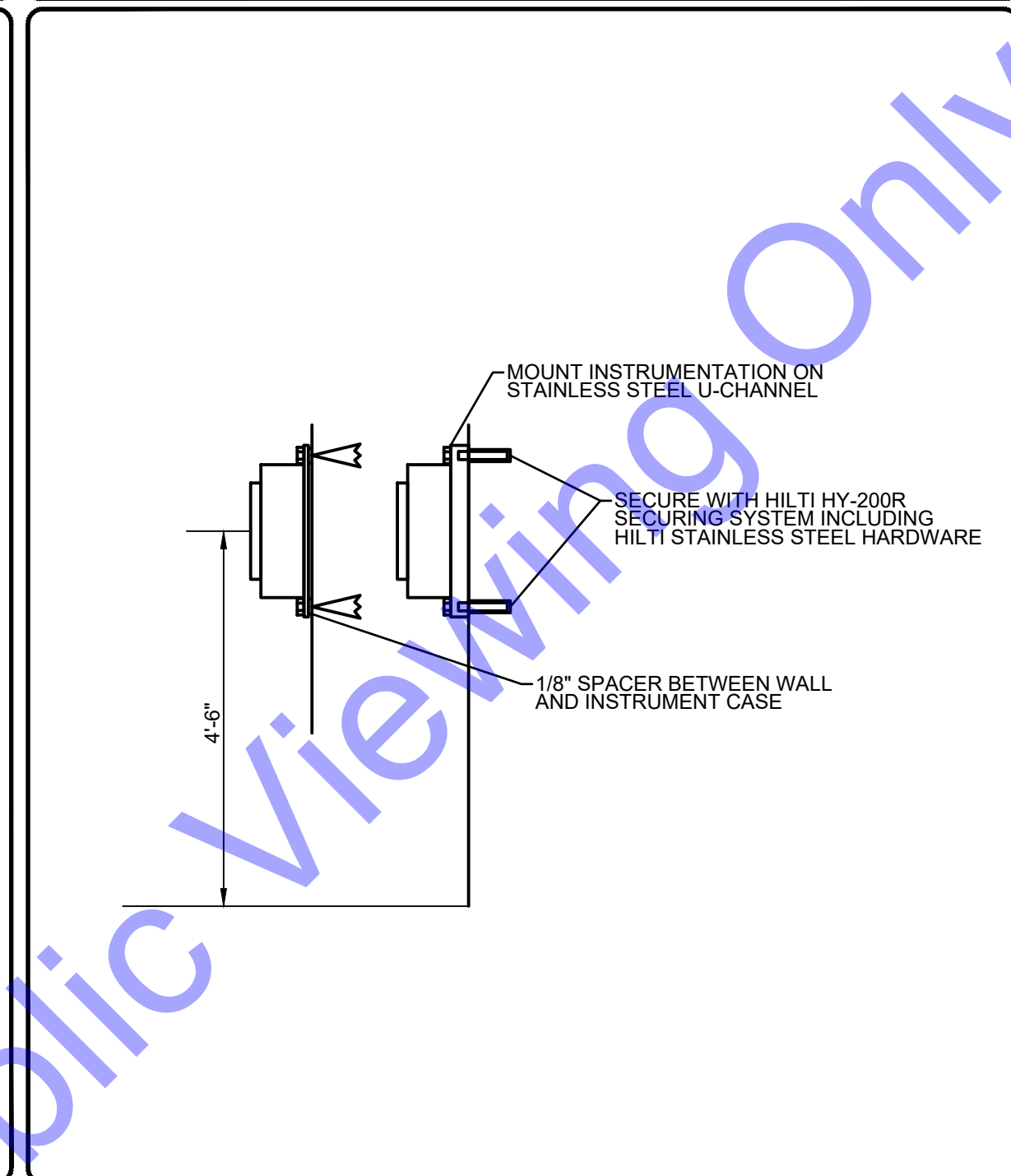
HANDRAIL MOUNT DISCONNECT

NOT TO SCALE



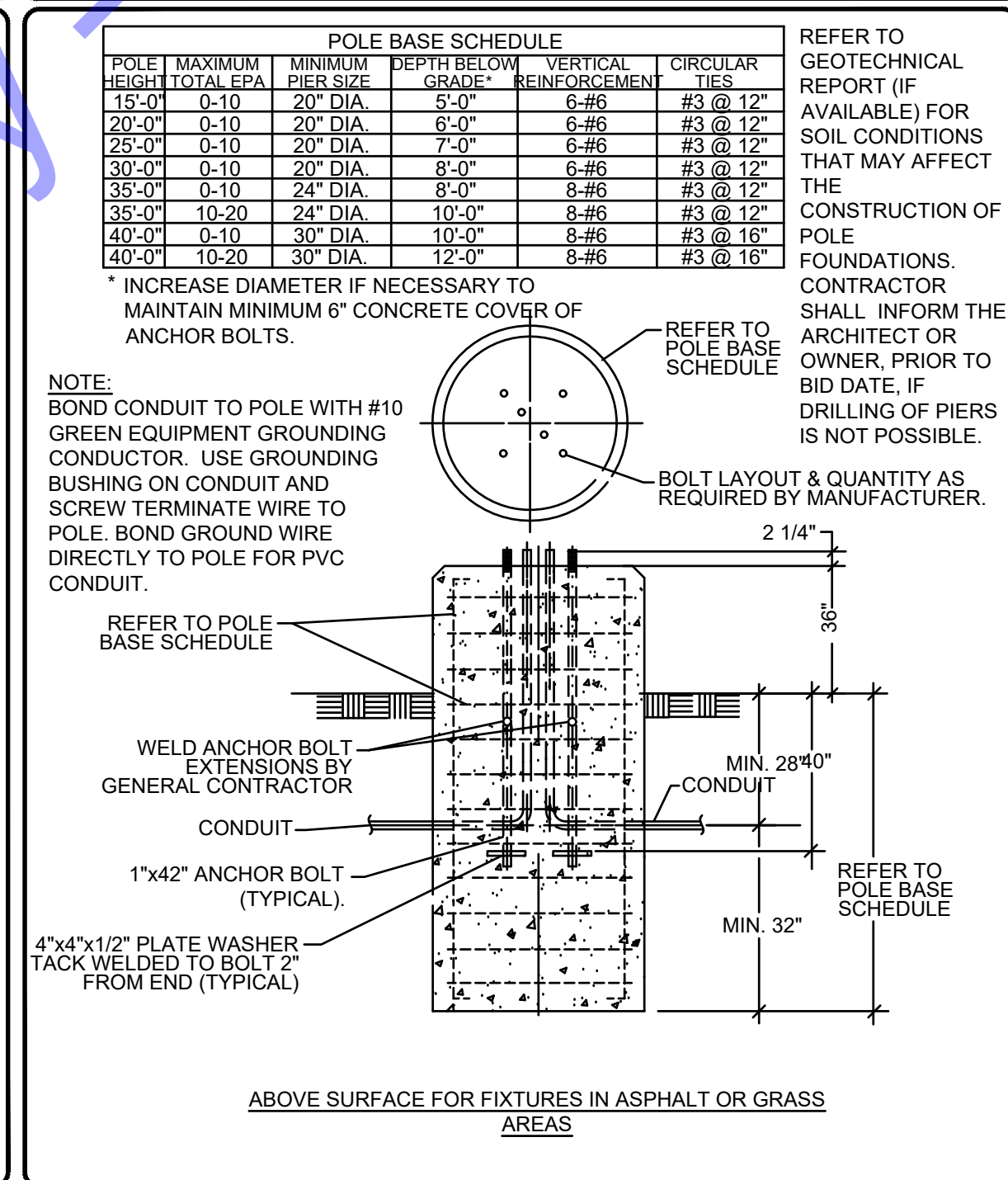
WALL MOUNTED CONDUIT RACK

NOT TO SCALE



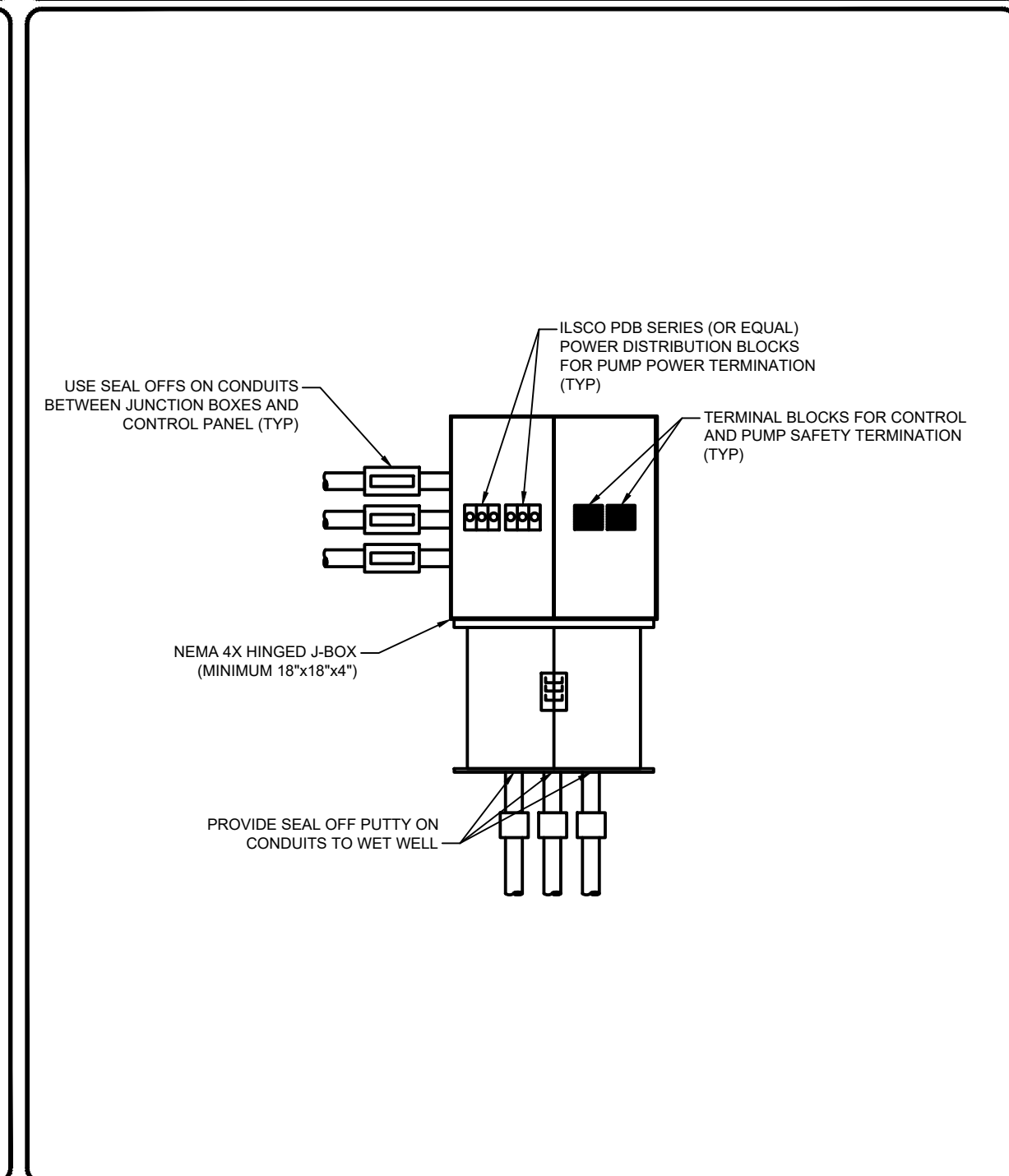
WALL MOUNT SMALL CASE INSTRUMENTATION

NOT TO SCALE



ROUND POLE BASE

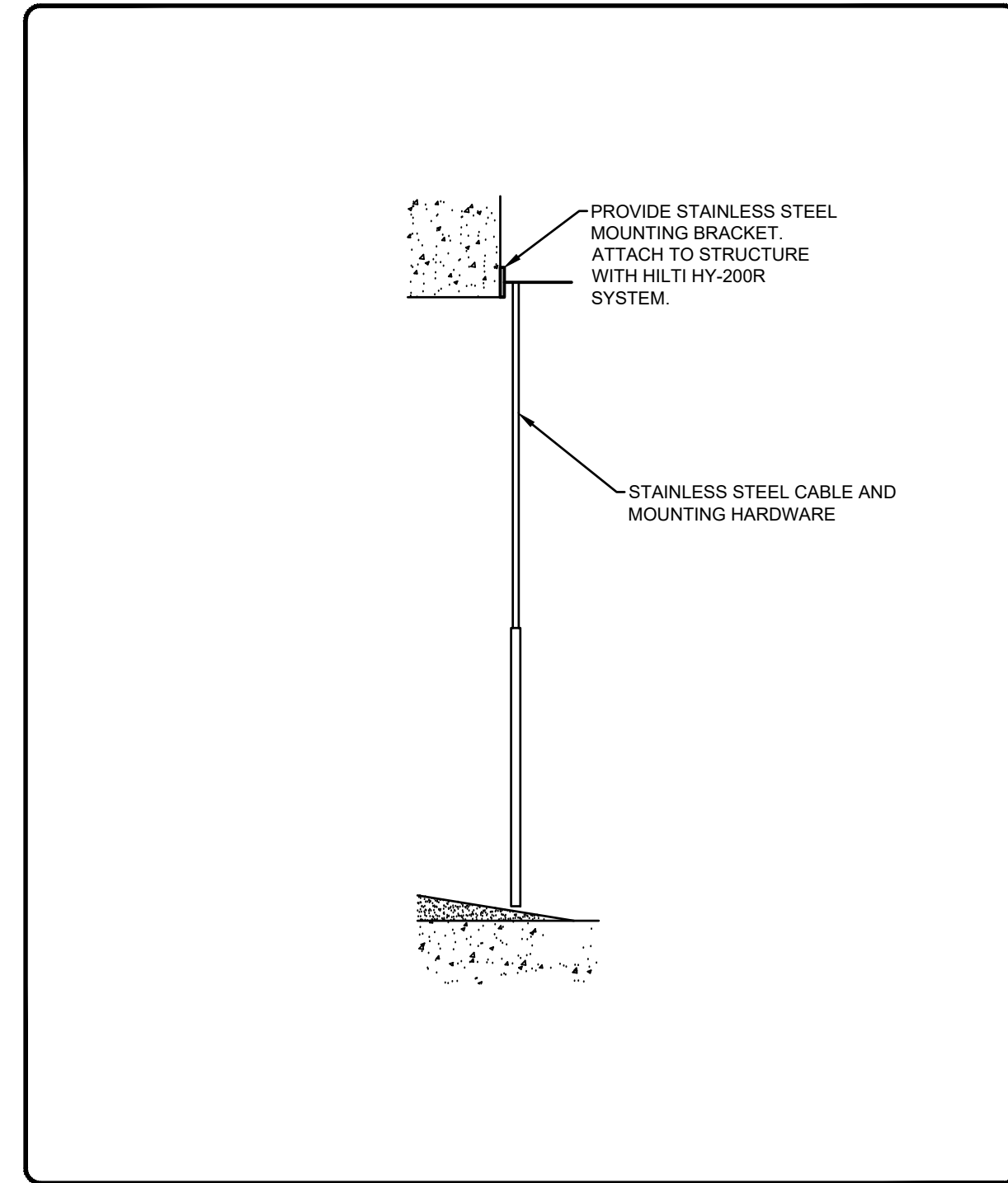
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J-BOX INTERIOR DETAIL

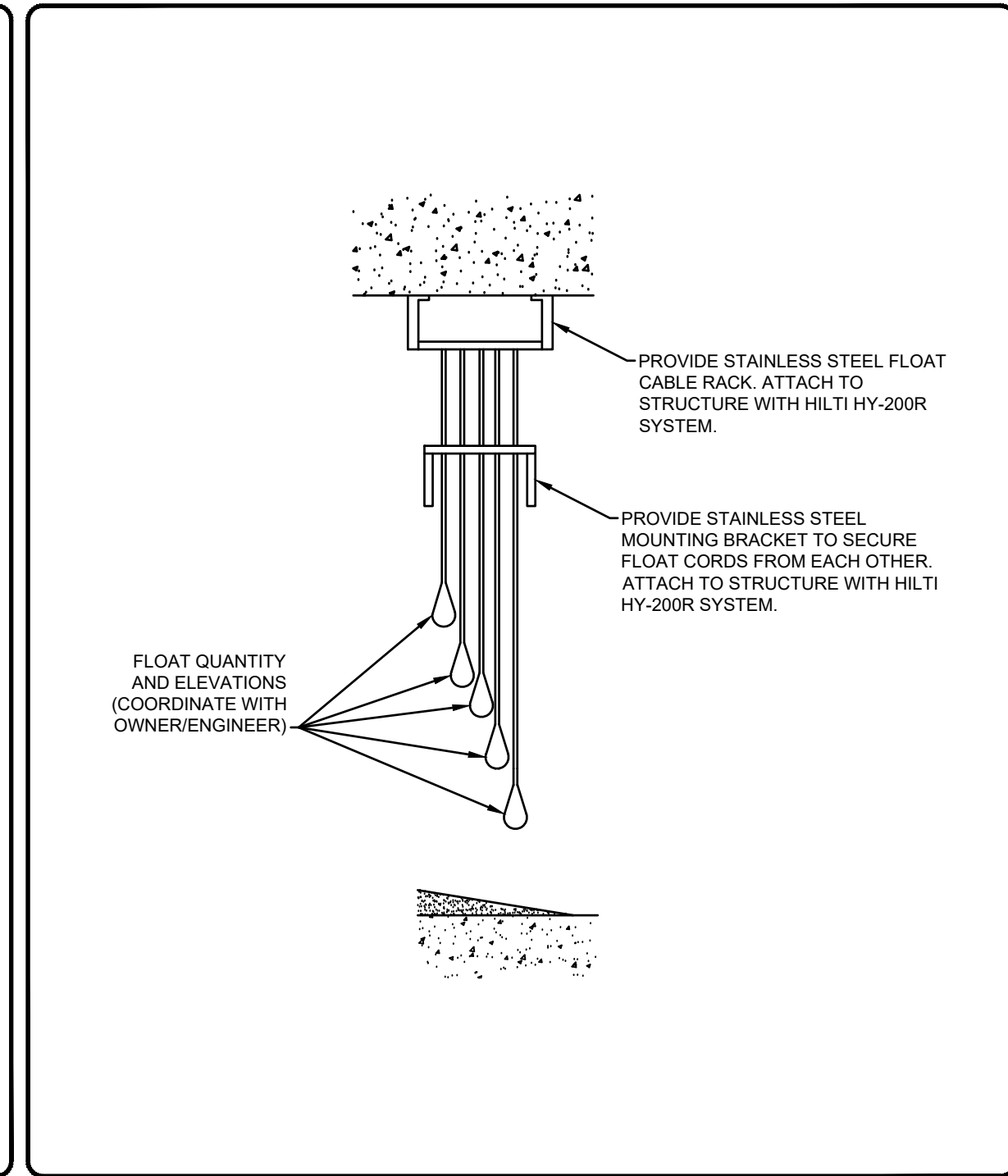
NOT TO SCALE

NOTE:
1. ROUND OFF ALL EXPOSED EDGES & CORNERS.
2. PAINT METAL IN CONTACT WITH CONCRETE ACCORDING TO SPECIFICATIONS FOR PAINTING.



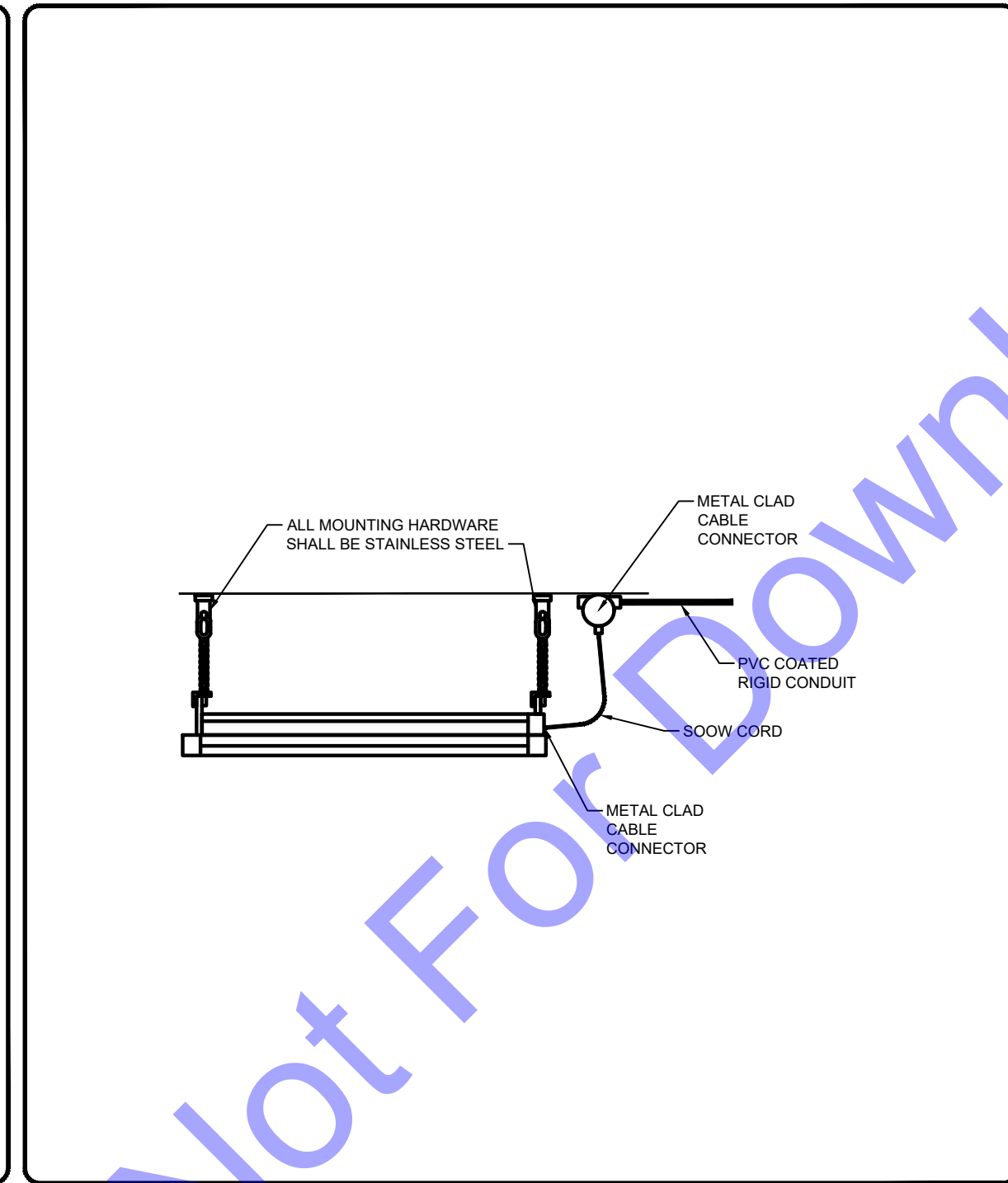
LEVEL ROD MOUNTING DETAIL

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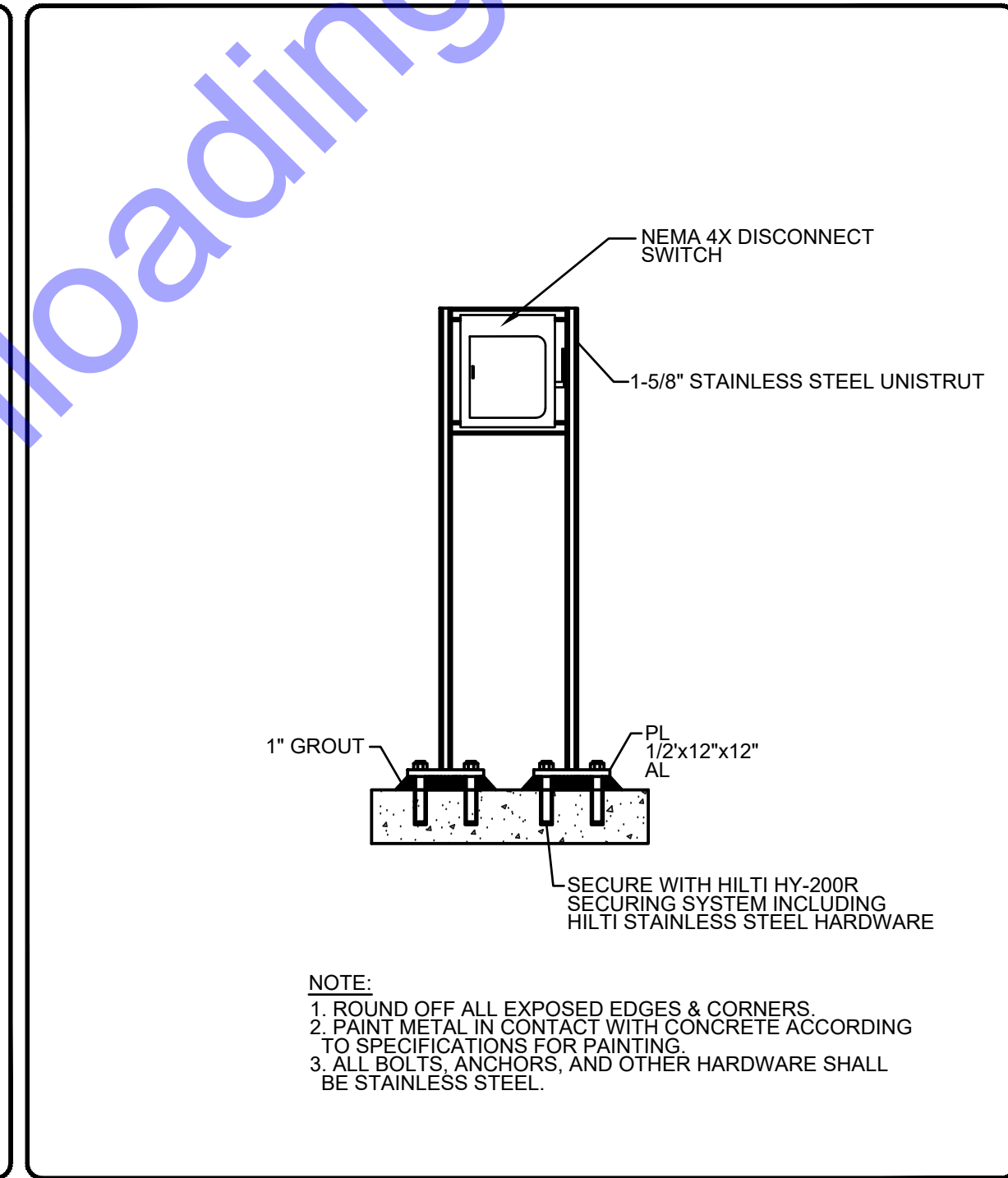
FLOAT MOUNTING DETAIL

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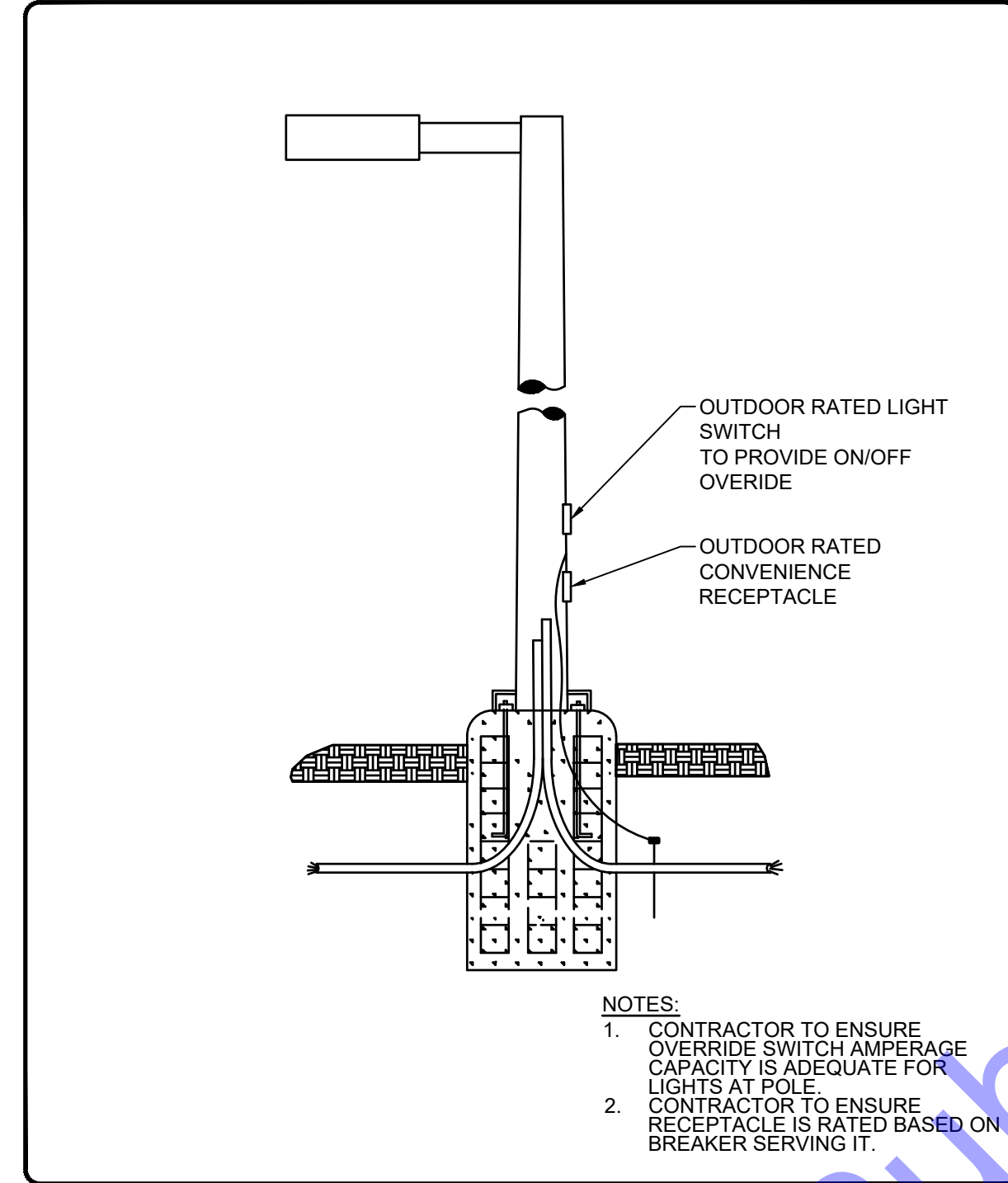
LIGHT FIXTURE MOUNTING DETAIL

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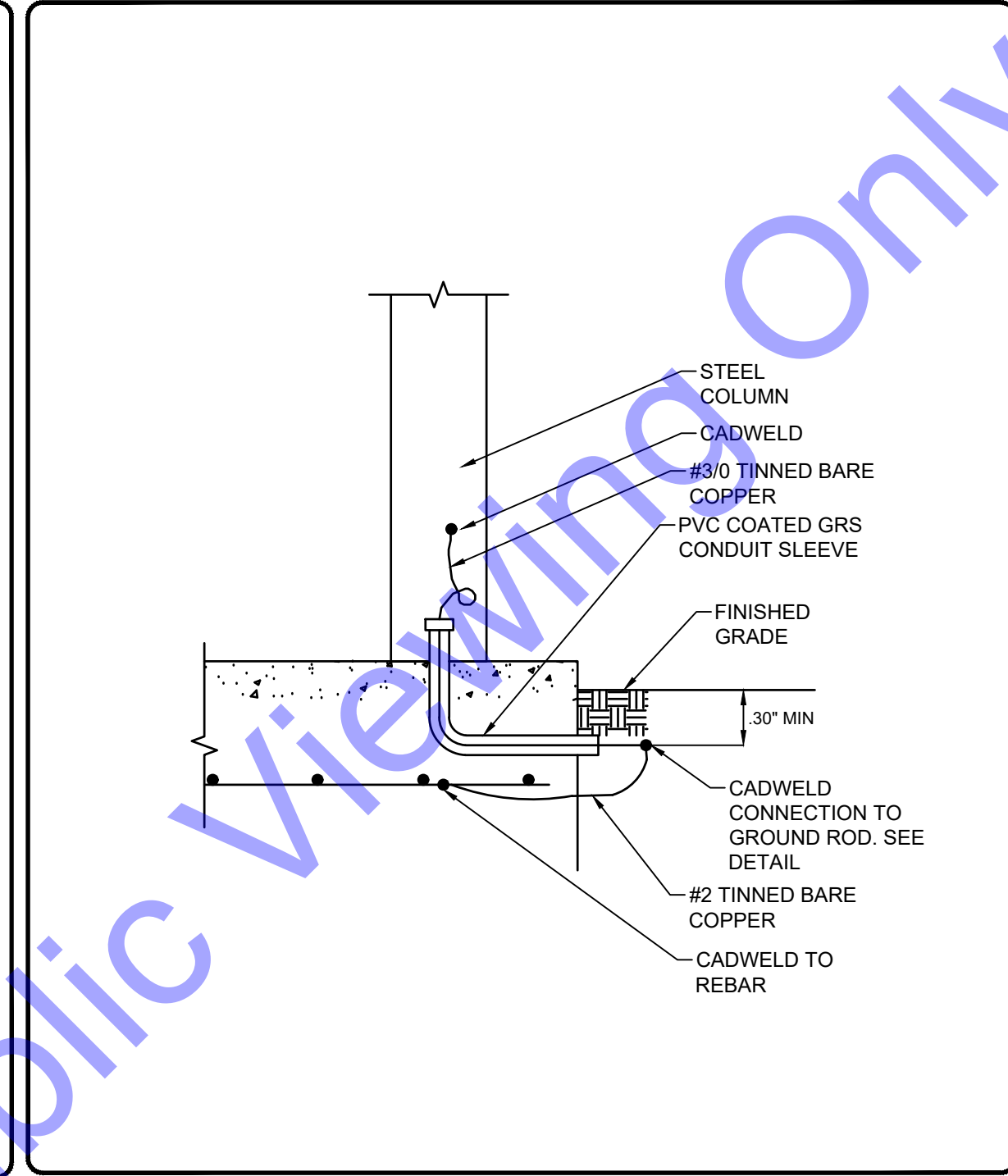
STANCHION MOUNT DISCONNECT SWITCH

NOT TO SCALE



SITE LIGHTING POLE SWITCH/RECEPTACLE DETAIL

NOT TO SCALE



STEEL COLUMN BUILDING AND REBAR GROUND CONNECTION

NOT TO SCALE

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