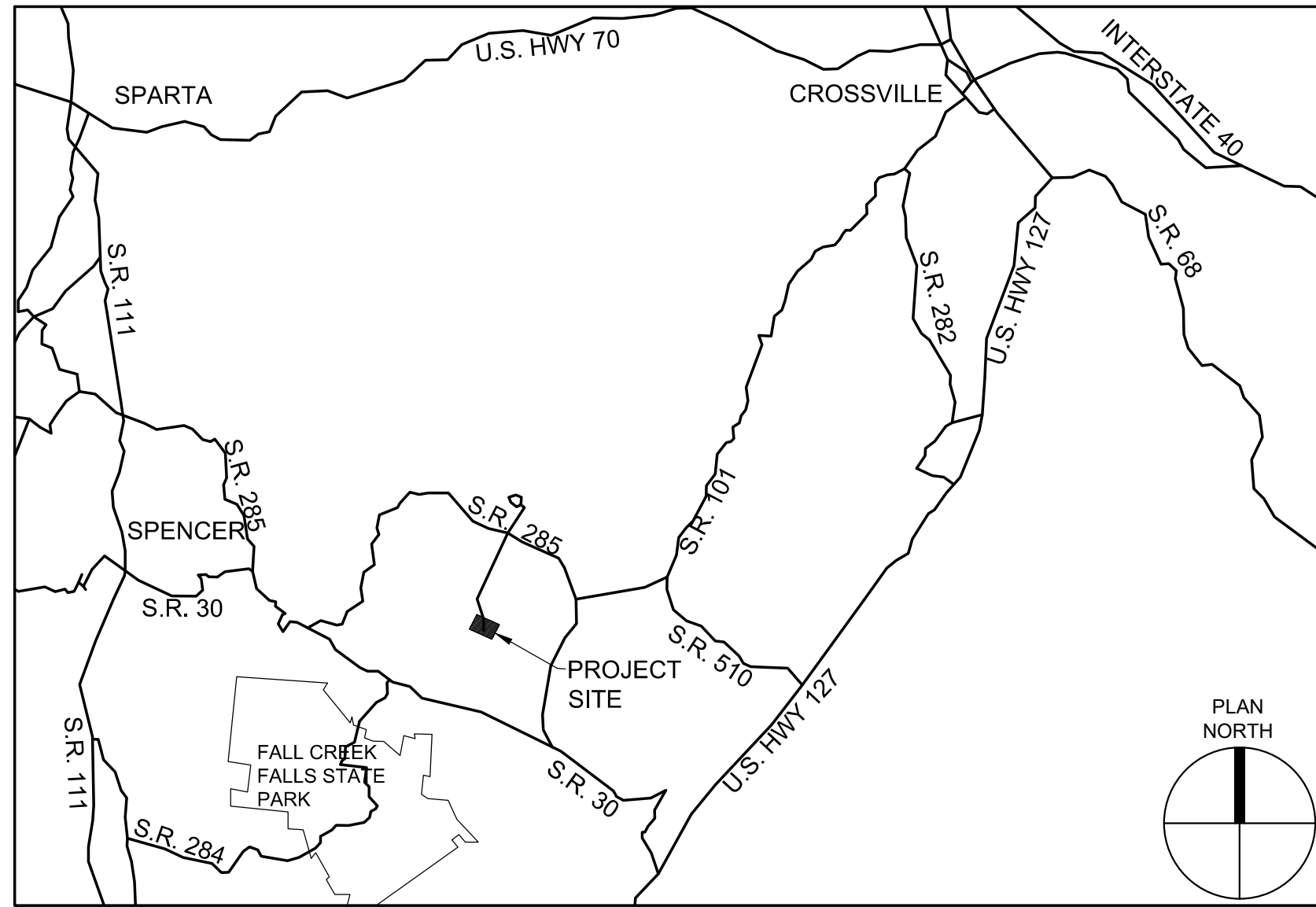


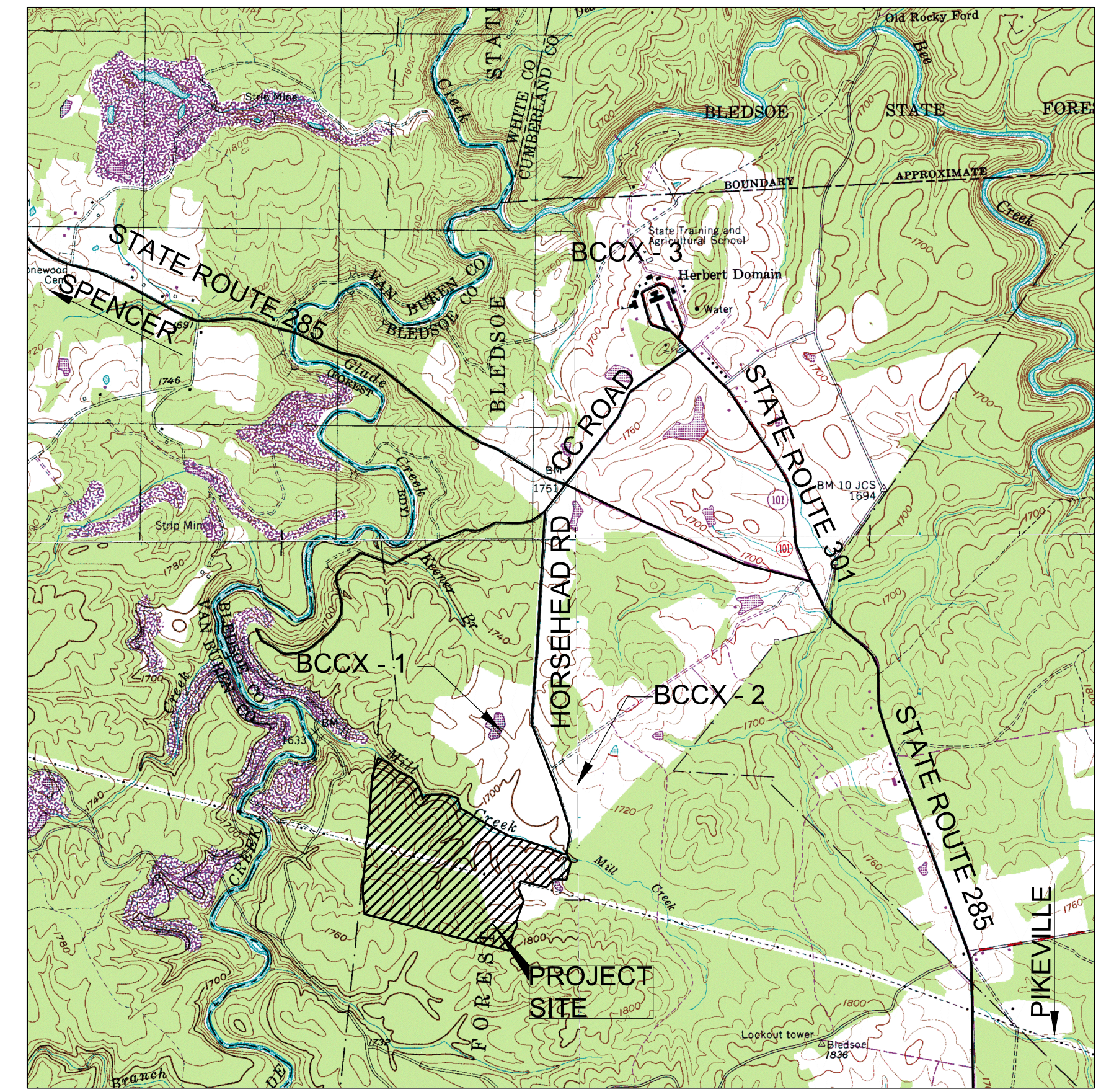
WASTEWATER TREATMENT PLANT EXPANSION

BLED SOE COUNTY CORRECTIONAL COMPLEX PIKEVILLE, BLED SOE COUNTY, TENNESSEE

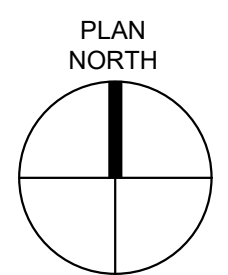
OWNER
STATE OF TENNESSEE DEPARTMENT OF GENERAL SERVICES
FOR
DEPARTMENT OF CORRECTION
SBC PROJECT NO. 142/013-01-2013-06



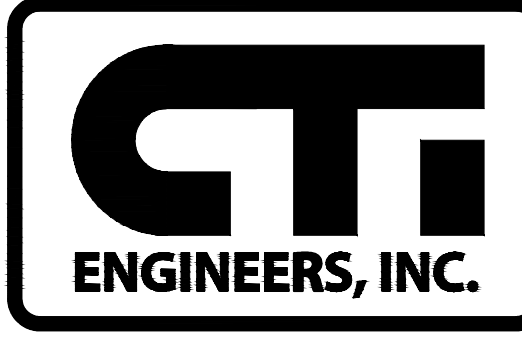
VICINITY MAP
N.T.S.



LOCATION MAP
SCALE: 1" = 2,000'



PREPARED BY:

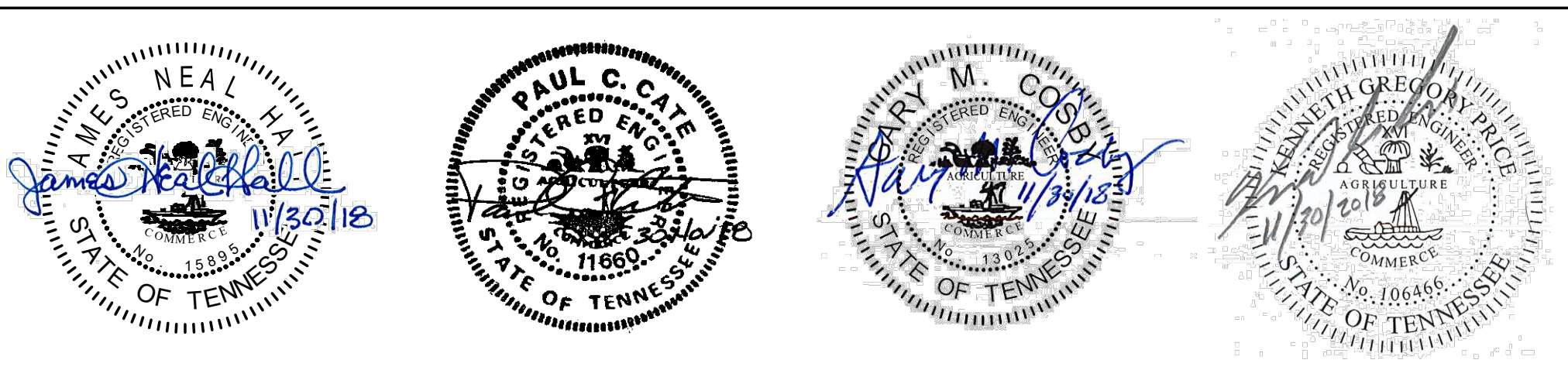


CTI ENGINEERS, INC.
3354 PERIMETER HILL DR., SUITE 140
NASHVILLE, TN 37211
615-834-8300

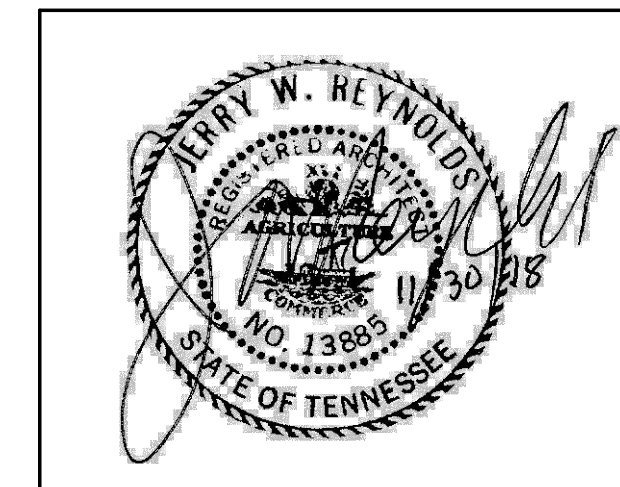
James Neal Hall 11/30/18
DATE

JAMES NEAL HALL, P.E.
TENNESSEE LICENSE NO. 15895

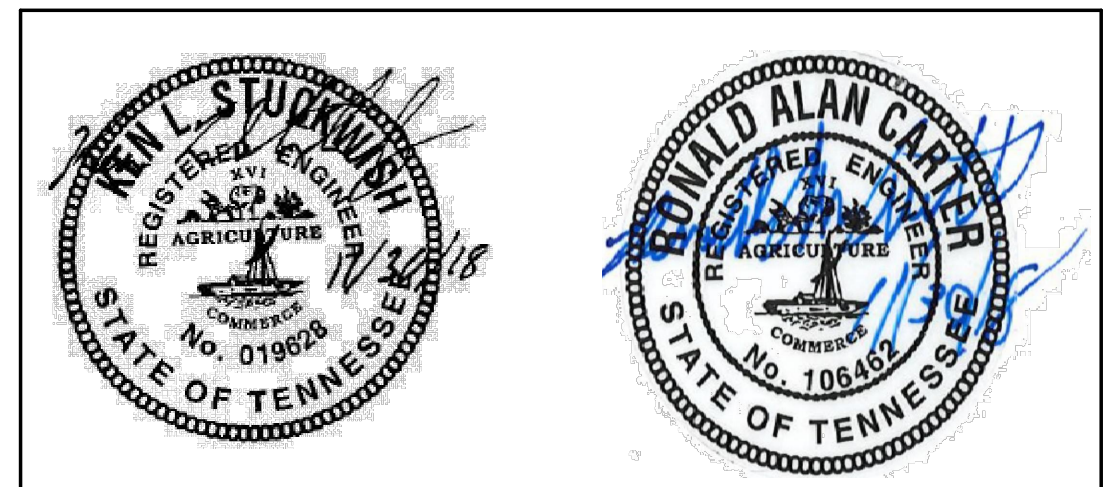
CTI ENGINEERS, INC.
3354 PERIMETER HILL DR., SUITE 140
NASHVILLE, TN 37211
615-834-8300



JERRY W. REYNOLDS
ARCHITECT
904 WEST CYNTHIA TRAIL
GOODLETTSVILLE, TN 37072-3517
(615) 855-0406



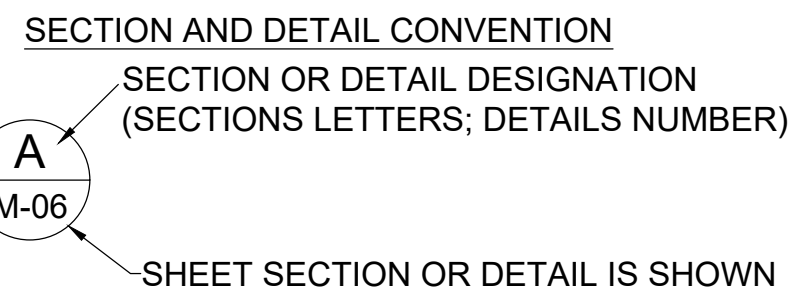
WEST, WELCH, REED ENGINEERS, INC.
5417 BALL CAMP PIKE
KNOXVILLE, TN 37921
(865) 588-2431



CTI PROJECT: N16003-01 (TN Dept. General Services TDEC) Bledsoe County Correctional Complex, DRAWING: CTI - G-002 DRAWING INDEX GENERAL NOTES, & LEGEND (574045v27/426/19 7:31AM), LAYOUT: 2.0 INDEX DATE OF PRINT: 4/26/2019 11:57 AM

DRAWING INDEX

Table with 2 columns: TITLE and DRAWING NO. Includes sections for GENERAL, CIVIL, MECHANICAL PROCESS, and STRUCTURAL.



DRAWING INDEX

Table with 2 columns: TITLE and DRAWING NO. Includes sections for STRUCTURAL, ARCHITECTURAL, HVAC, PLUMBING, and ELECTRICAL.

Table defining structure codes (000-1300) and discipline codes (G, C, M, S, A, ME, P, E, SE).

LEGEND

Legend table mapping symbols to descriptions such as LAYOUT POINT, HEADWALL, INVERT ELEVATION, etc.

GENERAL NOTES:

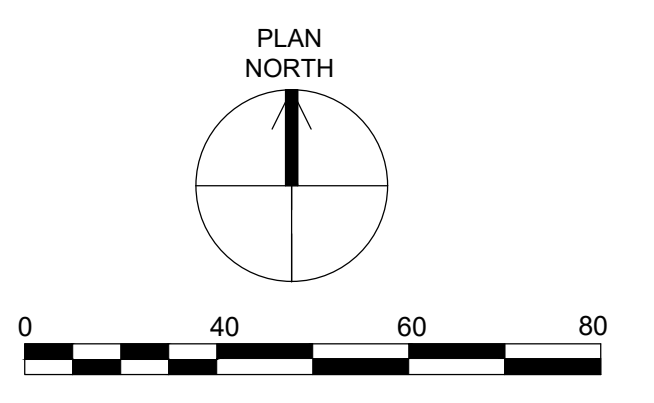
- 1. EXISTING PIPING AND UTILITIES SHOWN ARE BASED ON AVAILABLE INFORMATION... 2. CONTRACTOR'S OPERATION OF EQUIPMENT AND MOVEMENT OF MATERIALS... 3. THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PROTECT ALL EXISTING PLANT MATERIAL...

Project information block including title 'WASTEWATER TREATMENT PLANT EXPANSION', location 'BLEDSOE COUNTY CORRECTIONAL COMPLEX', date 'November 30, 2018', and logos for 'GFI ENGINEERS, INC.' and 'STATE OF TENNESSEE'.

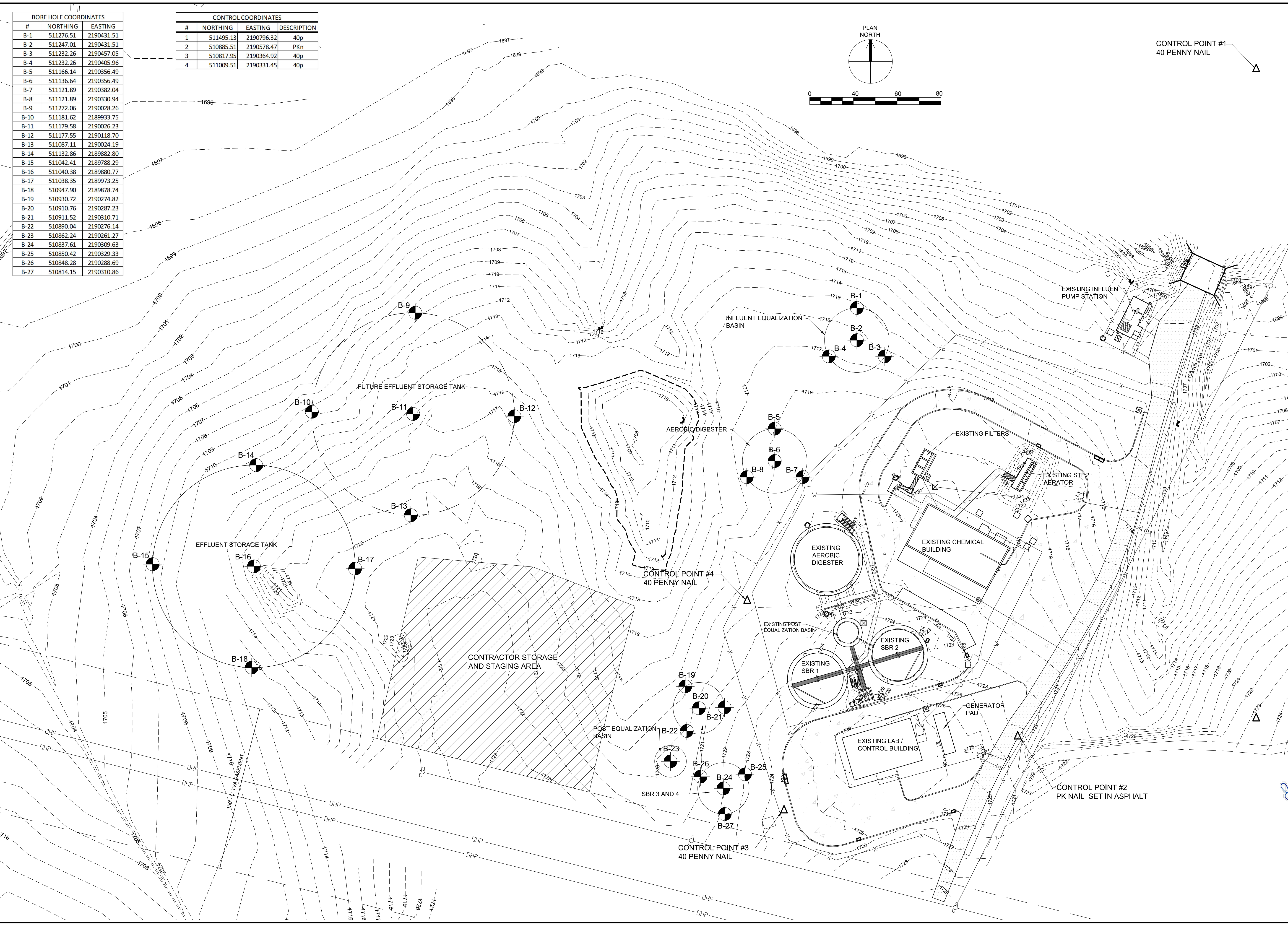
CTI PROJECT: N16003-01 (TN Dept. General Services TDEC) Bledsoe County Correctional Complex, DRAWING: CT1 - G-003 GEOTECHNICAL INVESTIGATION LOCATION MAP (5/4728/11/2/14/19 8:15AM), LAYOUT: BH
 DATE OF PRINT: 3/14/2019 1:39 PM

BORE HOLE COORDINATES		
#	NORTHING	EASTING
B-1	511276.51	2190431.51
B-2	511247.01	2190431.51
B-3	511232.26	2190457.05
B-4	511232.26	2190405.96
B-5	511166.14	2190356.49
B-6	511136.64	2190356.49
B-7	511121.89	2190382.04
B-8	511121.89	2190330.94
B-9	511272.06	2190028.26
B-10	511181.62	2189933.75
B-11	511179.58	2190026.23
B-12	511177.55	2190118.70
B-13	511087.11	2190024.19
B-14	511132.86	2189882.80
B-15	511042.41	2189788.29
B-16	511040.38	2189880.77
B-17	511038.35	2189973.25
B-18	510947.90	2189878.74
B-19	510930.72	2190274.82
B-20	510910.76	2190287.23
B-21	510911.52	2190310.71
B-22	510890.04	2190276.14
B-23	510862.24	2190261.27
B-24	510837.61	2190309.63
B-25	510850.42	2190329.33
B-26	510848.28	2190288.69
B-27	510814.15	2190310.86

CONTROL COORDINATES			
#	NORTHING	EASTING	DESCRIPTION
1	511495.13	2190796.32	40p
2	510885.51	2190578.47	PKn
3	510817.95	2190364.92	40p
4	511009.51	2190331.45	40p



CONTROL POINT #1
40 PENNY NAIL



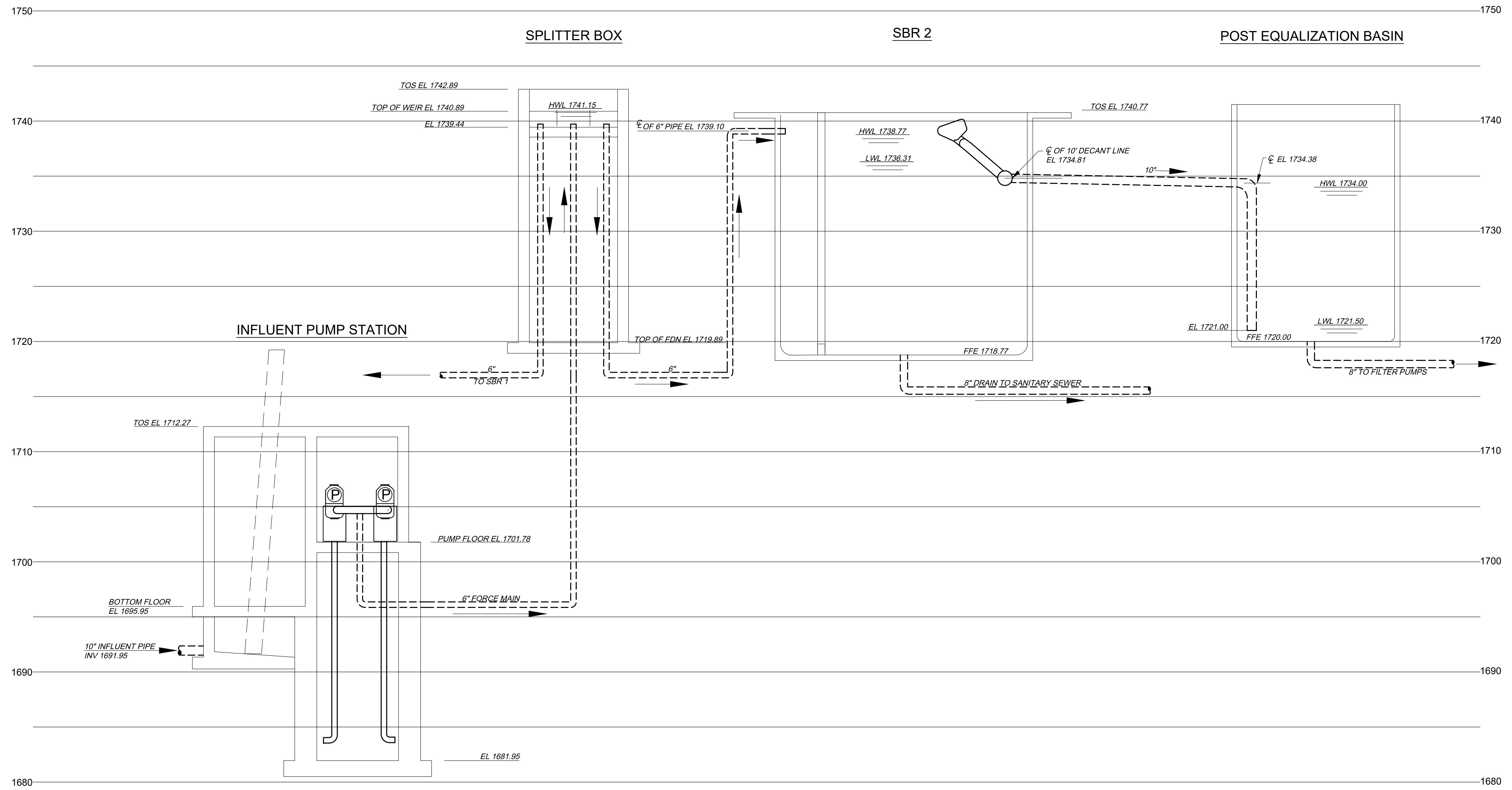
REVISIONS		DATE	BY	APPD
NO.	DESCRIPTIONS			

DESIGN	DRAWN	CHECKED	APPROVED
NH	JRH	NH	NH

WASTEWATER TREATMENT PLANT EXPANSION
BLED SOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLED SOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

GEOTECHNICAL INVESTIGATION
LOCATION MAP

JOB NO.
 N16003
 ISSUE DATE
 November 30, 2018
 SCALE
 1" = 40' - 0"
 DRAWING NO.
 G-003

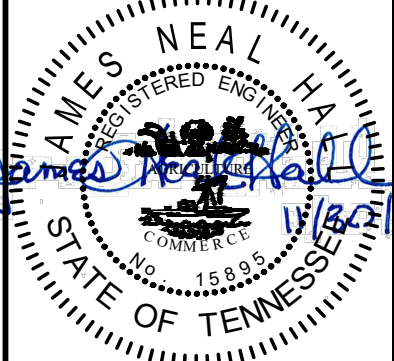
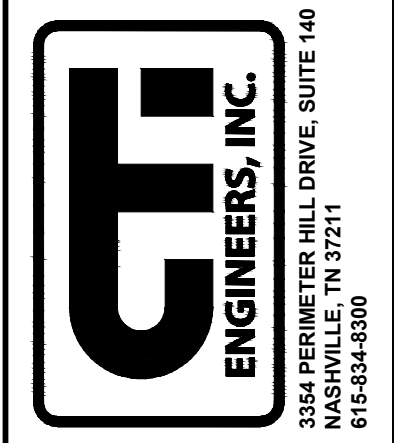


REVISIONS		DATE	BY	APPD
NO.	DESCRIPTIONS			

DESIGN: NH
 DRAWN: JRH
 CHECKED: NH
 APPROVED: NH

WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SEC PROJECT 142/013-01-2013-06

EXISTING PROCESS HYDRAULIC PROFILE
 (1 OF 2)



JOB NO.
N16003

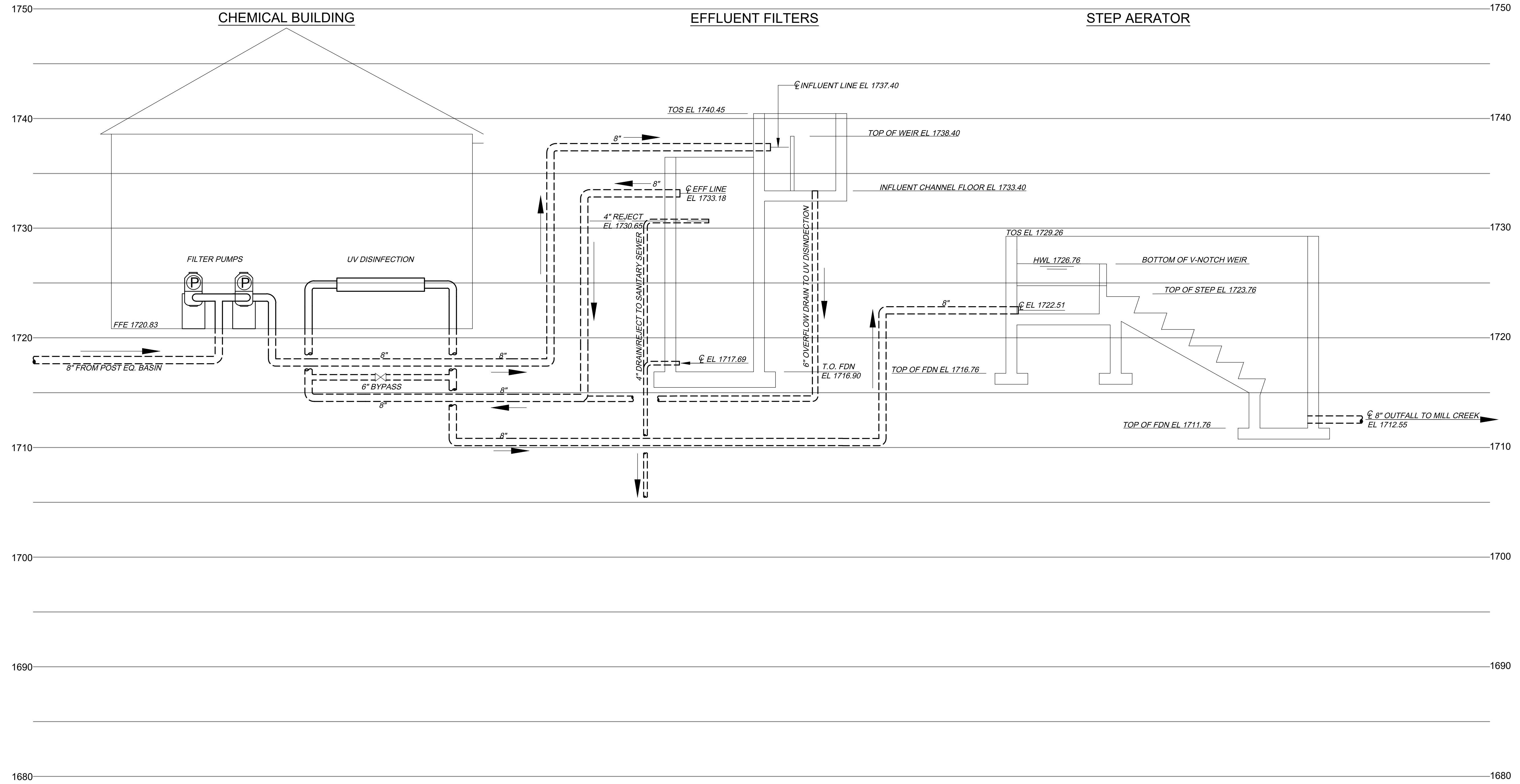
ISSUE DATE
November 30, 2018

SCALE
NTS

DRAWING NO.
G-004

CTI PROJECT: N16003-01 (TN Dept. General Services TDEC) Bledsoe County Correctional Complex, DRAWING: CTI - G-005 EXISTING PROCESS HYDRAULIC PROFILE 2 OF 2 (6/7/2019 1:33PM), LAYOUT: G-005

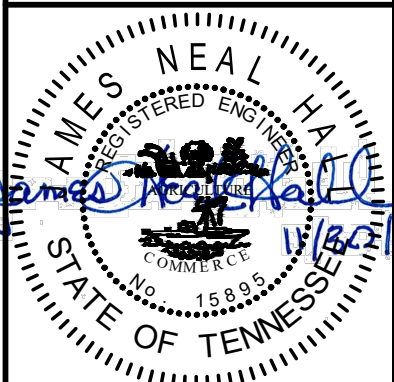
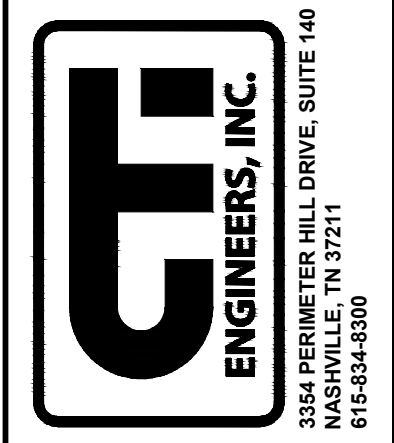
DATE OF PRINT: 3/14/2019 1:44 PM



REVISIONS		DATE	BY	APPD
NO.	DESCRIPTIONS			

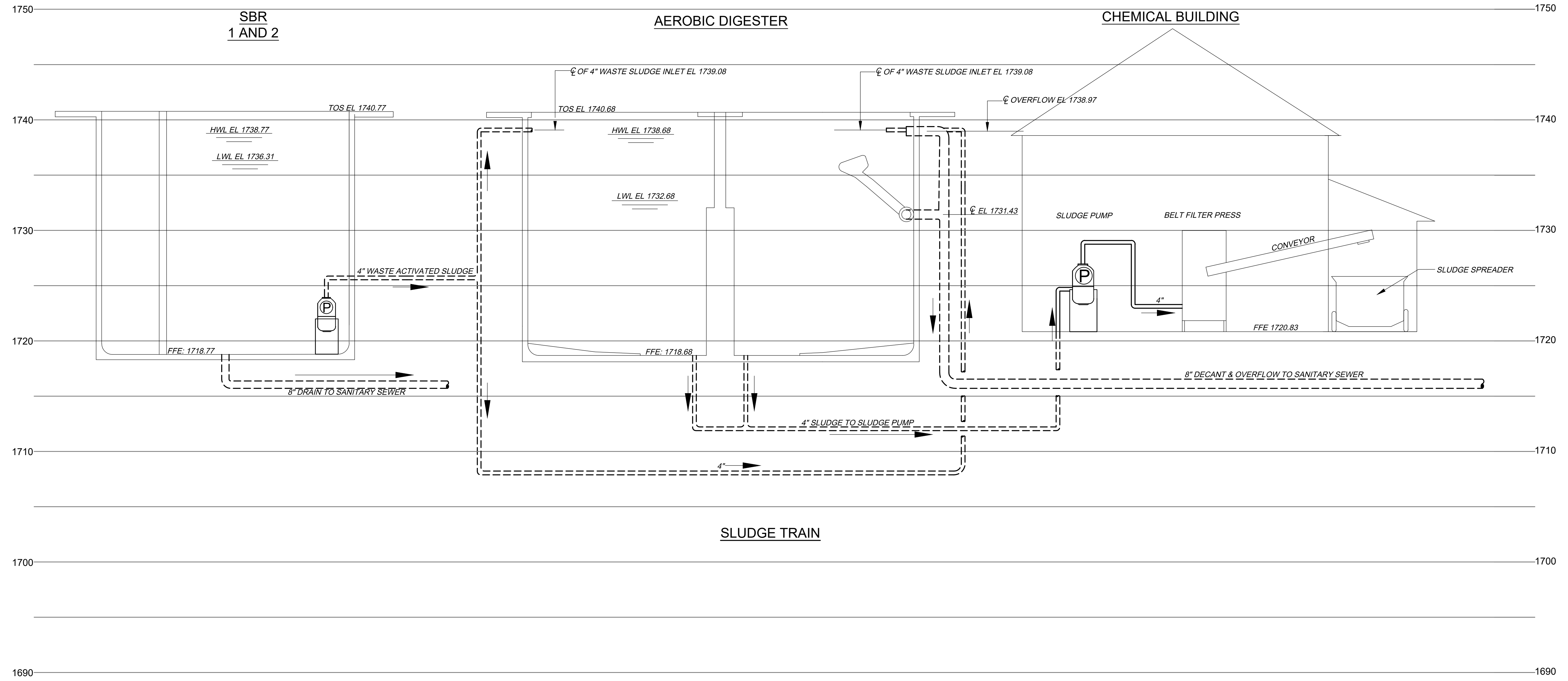
DESIGN	DRAWN	CHECKED	APPROVED
NH	JRH	NH	NH

WASTEWATER TREATMENT PLANT EXPANSION
BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SEC PROJECT 142/013-01-2013-06
EXISTING PROCESS HYDRAULIC PROFILE
 (2 OF 2)



JOB NO. N16003
ISSUE DATE November 30, 2018
SCALE NTS
DRAWING NO. G-005

DATE OF PRINT: 3/14/2019 1:45 PM CTI PROJECT: N16003-01 (TN Dept. General Services TDEC) Bledsoe County Correctional Complex, DRAWING: CTI - G-006 EXISTING SLUDGE HYDRAULIC PROFILE (665350v172/14/19 8:13AM), LAYOUT: G-006

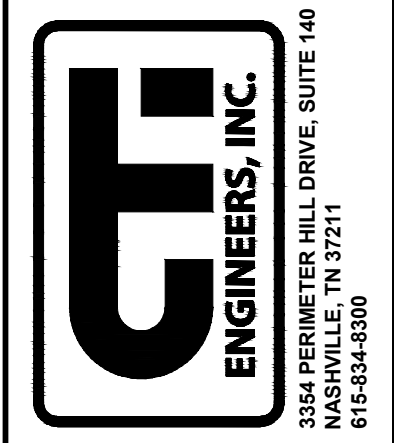


NO.	REVISIONS DESCRIPTIONS	DATE	BY	APPD

DESIGN: INH
 DRAWN: JRH
 CHECKED: INH
 APPROVED: INH

WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SEC PROJECT 142/013-01-2013-06

EXISTING SLUDGE HYDRAULIC PROFILE

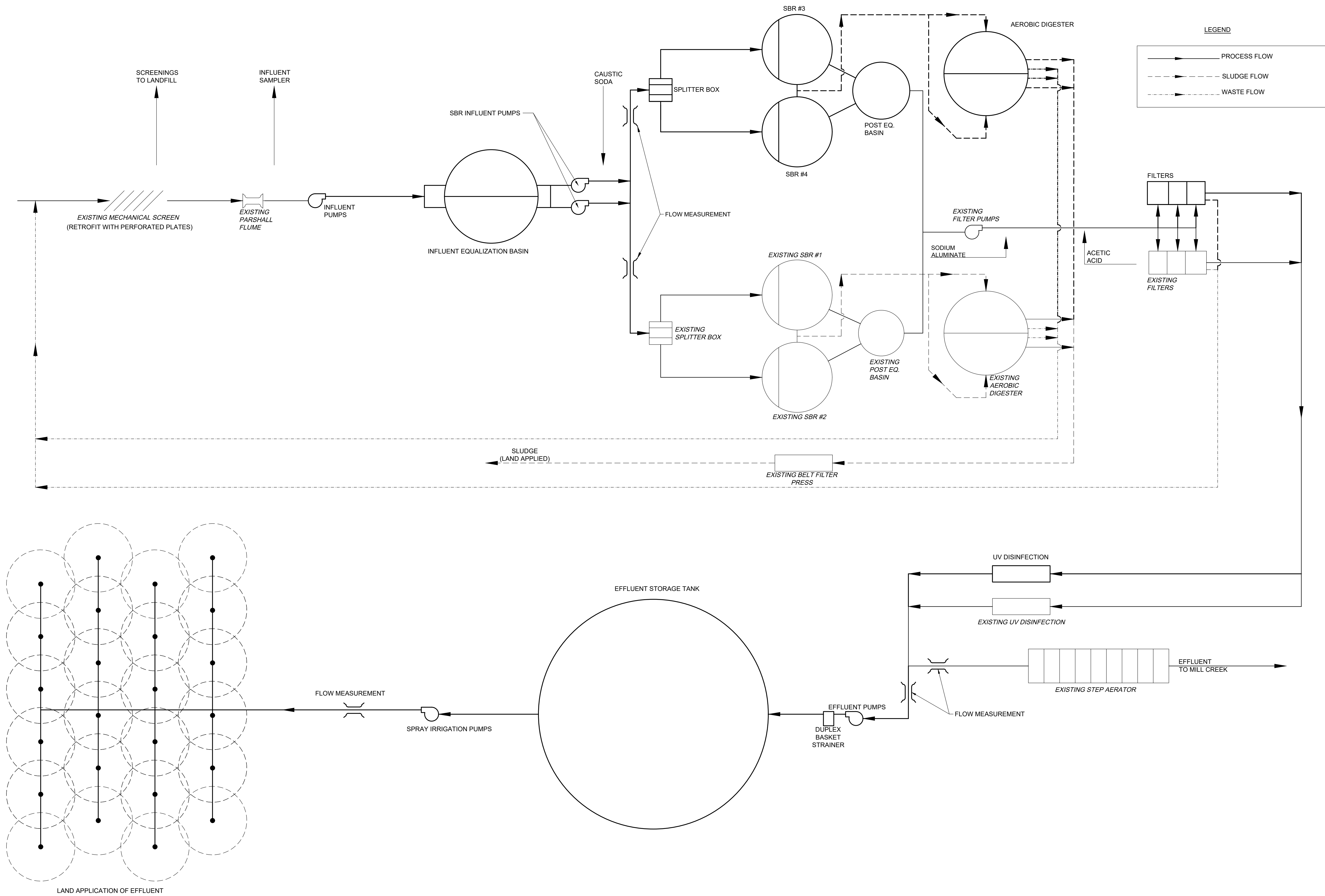


JOB NO.
N16003

ISSUE DATE
November 30, 2018

SCALE
NTS

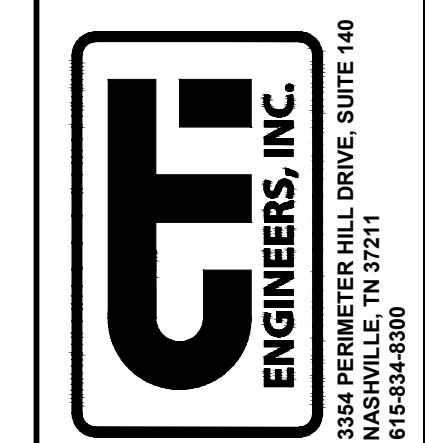
DRAWING NO.
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REVISIONS		DATE	BY	APPD
NO.	DESCRIPTIONS			

DESIGN	DRAWN	CHECKED	APPROVED
NH	JRH	NH	NH

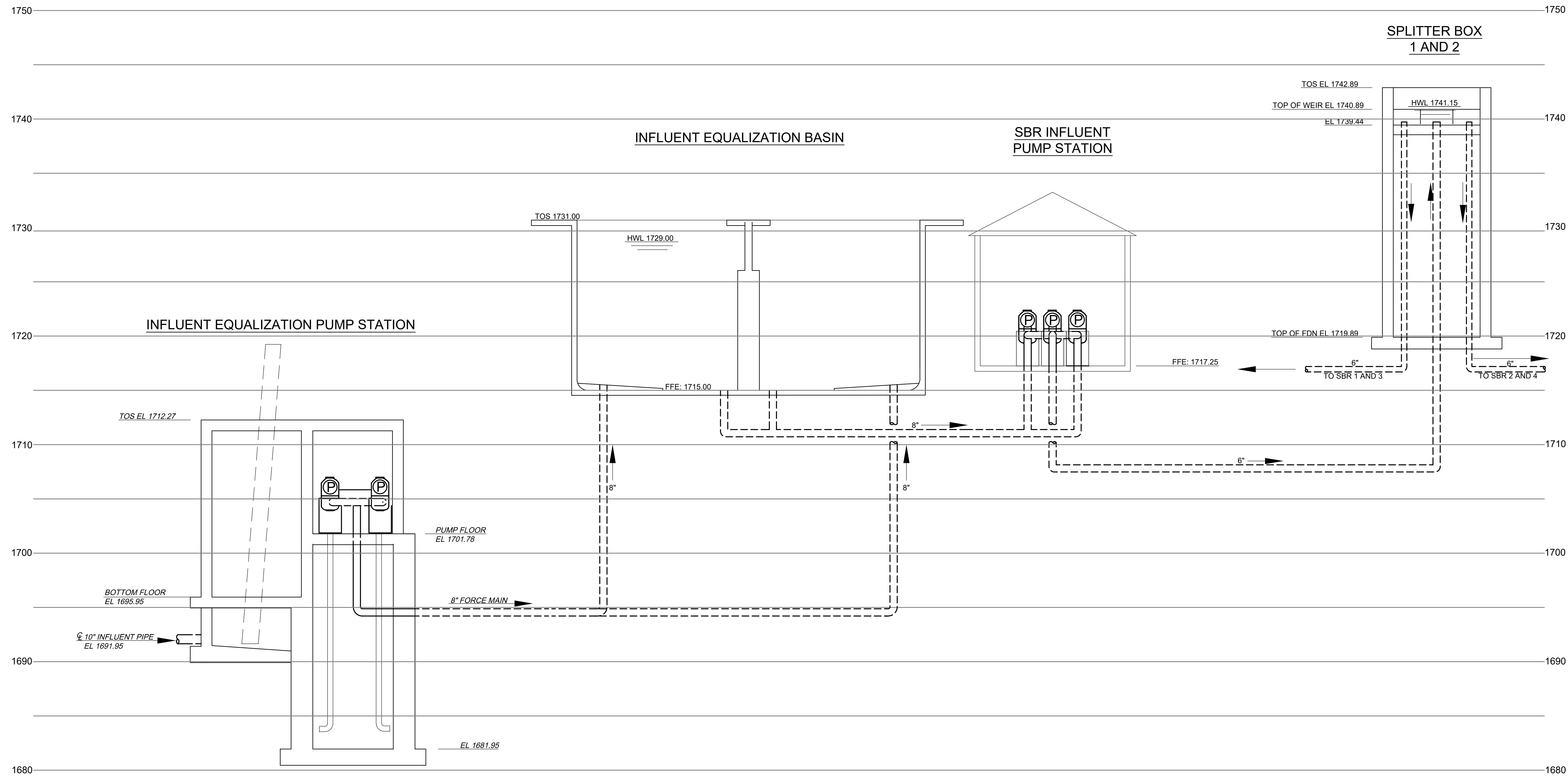
WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06



JOB NO. N16003
ISSUE DATE November 30, 2018
SCALE NTS
DRAWING NO. G-007

CTI PROJECT: N16003-01 CTI Dept. General Services TDEC/ Bledsoe County Correctional Complex DRAWING: CTI - G-008 PROCESS HYDRAULIC PROFILE 1 OF 3 (666352/23/14/19 1:35PM) LAYOUT: G-008

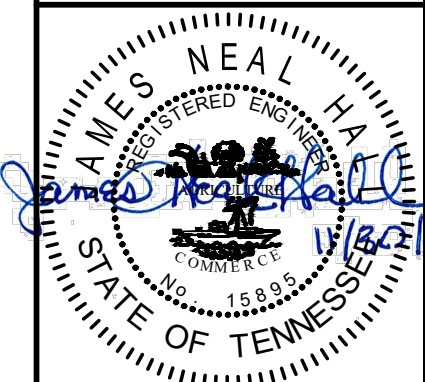
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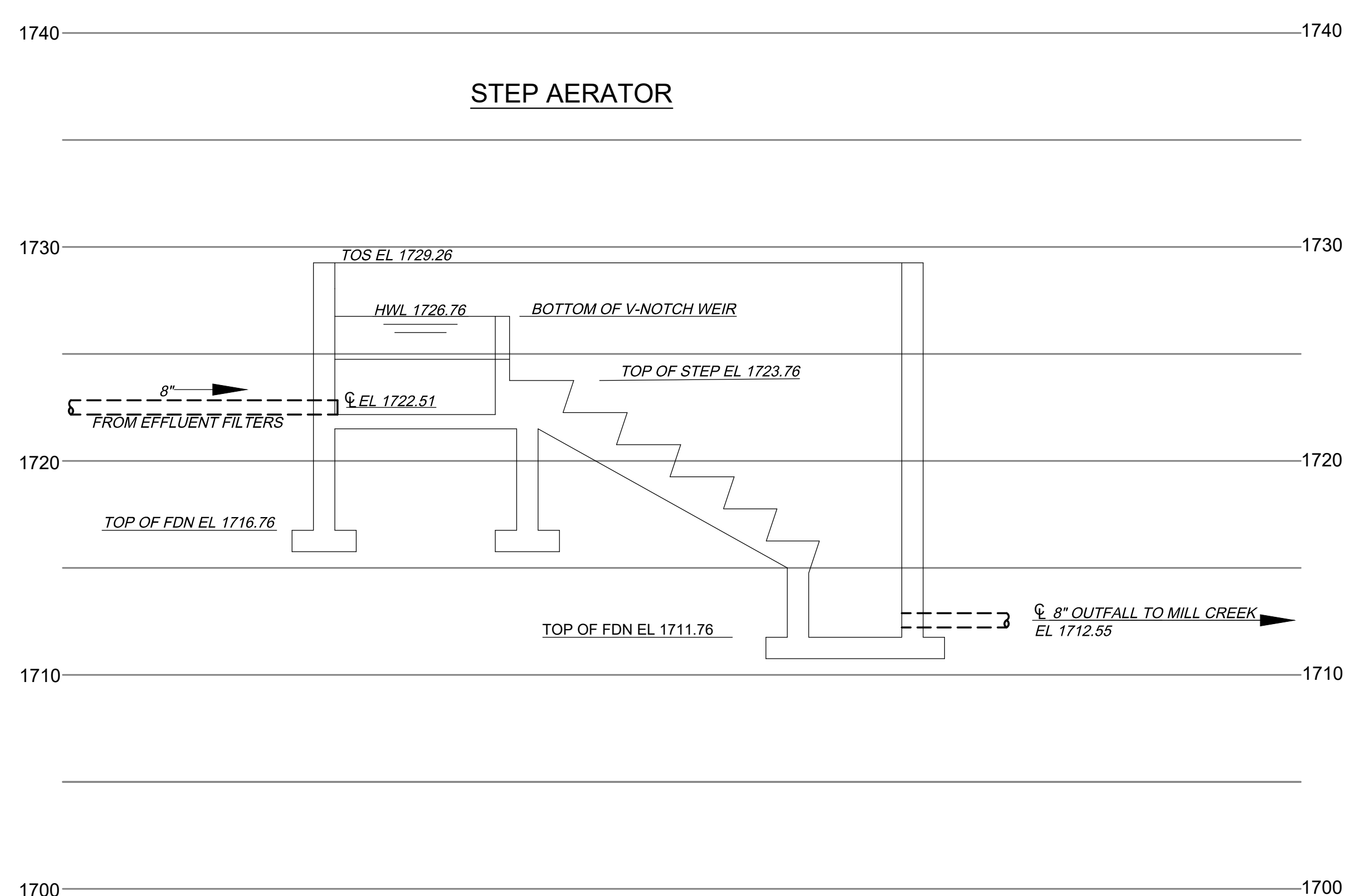
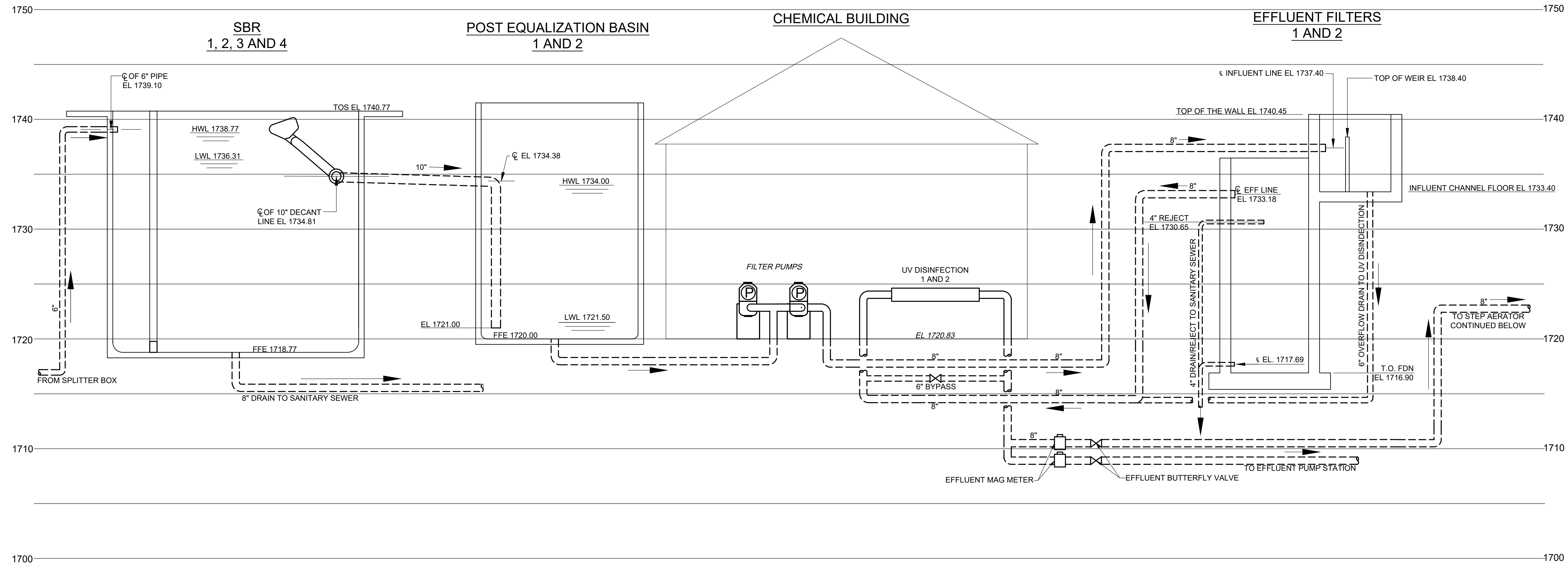
REVISIONS		DATE	BY	APPD
NO.	DESCRIPTIONS			

DESIGN	DRAWN	CHECKED	APPROVED
NH	JRH	NH	NH

WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06
 PROCESS HYDRAULIC PROFILE
 (1 OF 3)



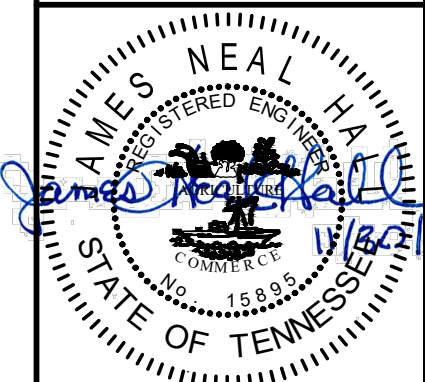
JOB NO.
N16003
 ISSUE DATE
November 30, 2018
 SCALE
NTS
 DRAWING NO.
G-008



REVISIONS		DATE	BY	APPD
NO.	DESCRIPTIONS			

DESIGN	DRAWN	CHECKED	APPROVED
NH	JRH	NH	NH

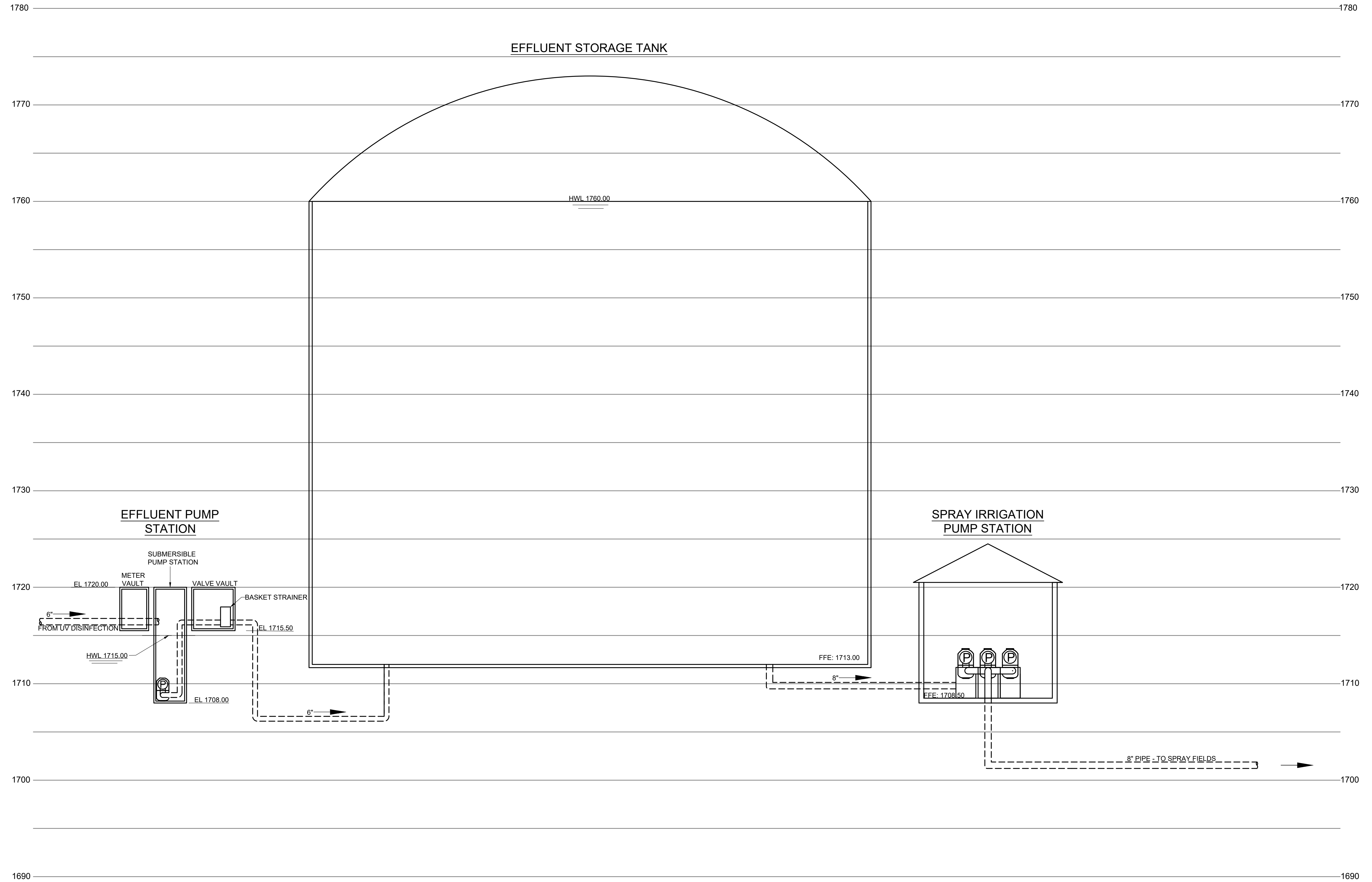
WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06
 PROCESS HYDRAULIC PROFILE
 (2 OF 3)



JOB NO. N16003
ISSUE DATE November 30, 2018
SCALE NTS
DRAWING NO. G-009

CTI PROJECT: N16003-01 (TN Dept. General Services TDEC) Bledsoe County Correctional Complex, DRAWING: CTI - G-010 PROCESS HYDRAULIC PROFILE 3 OF 3 (6/6/5/5/4/20/14/19 8:08AM), LAYOUT: G-010

DATE OF PRINT: 3/14/2019 1:48 PM

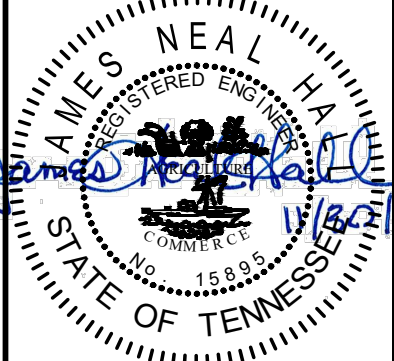
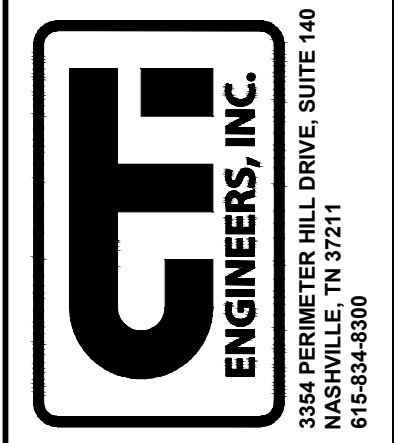


REVISIONS		DATE	BY	APPD
NO.	DESCRIPTIONS			

DESIGN: NH
 DRAWN: JRH
 CHECKED: NH
 APPROVED: NH

WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

PROCESS HYDRAULIC PROFILE
 (3 OF 3)

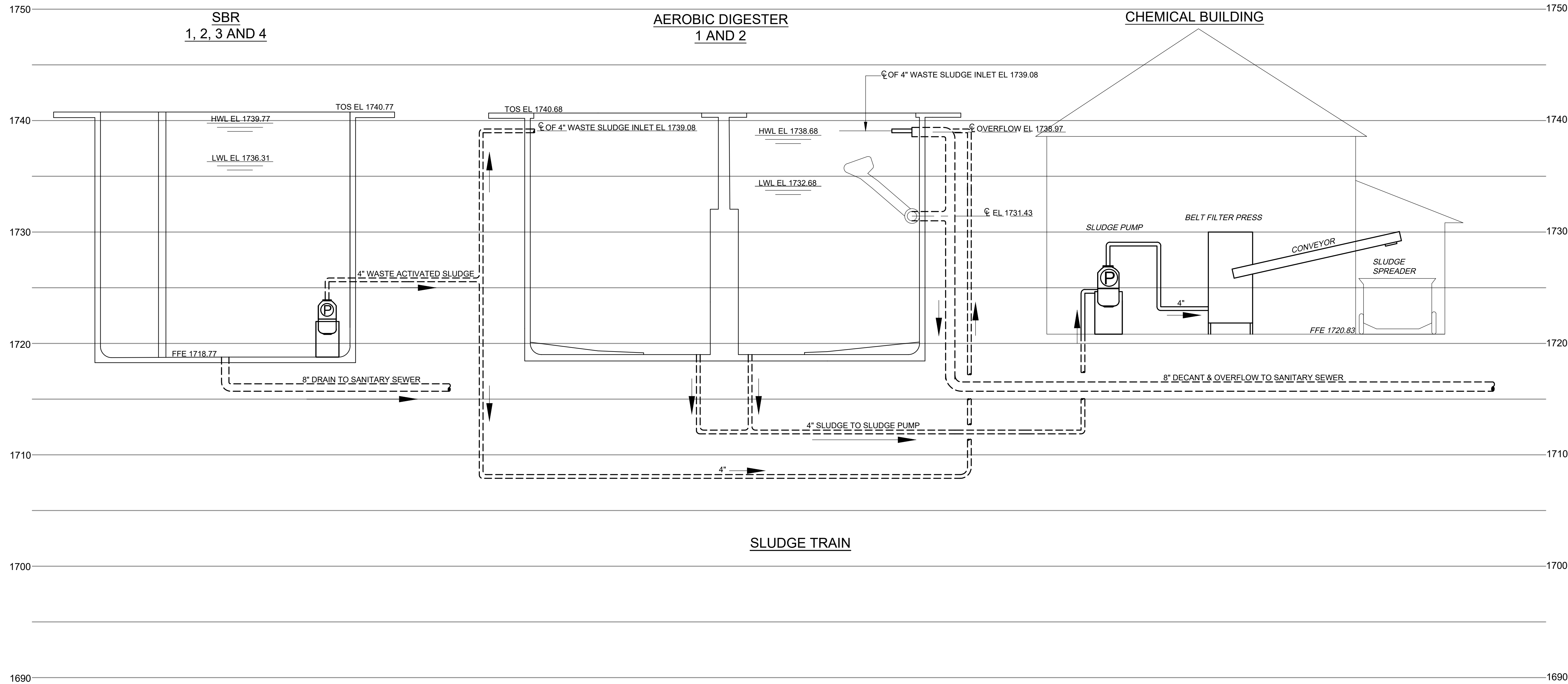


JOB NO.
N16003

ISSUE DATE
November 30, 2018

SCALE
NTS

DRAWING NO.
G-010

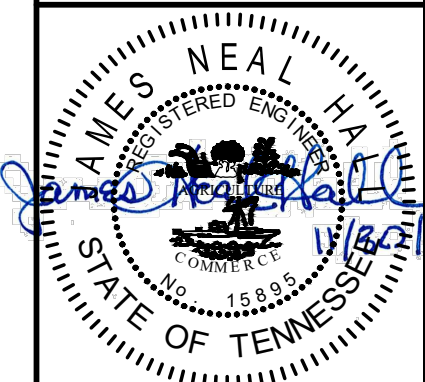
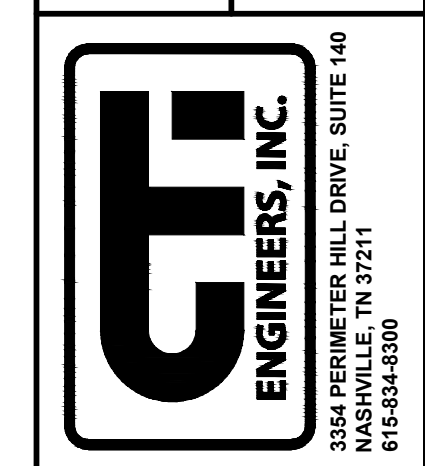


REVISIONS	NO.	DESCRIPTIONS	DATE	BY	APPD

DESIGN	DRAWN	CHECKED	APPROVED
NH	JRH	NH	NH

WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SEC PROJECT 142/013-01-2013-06

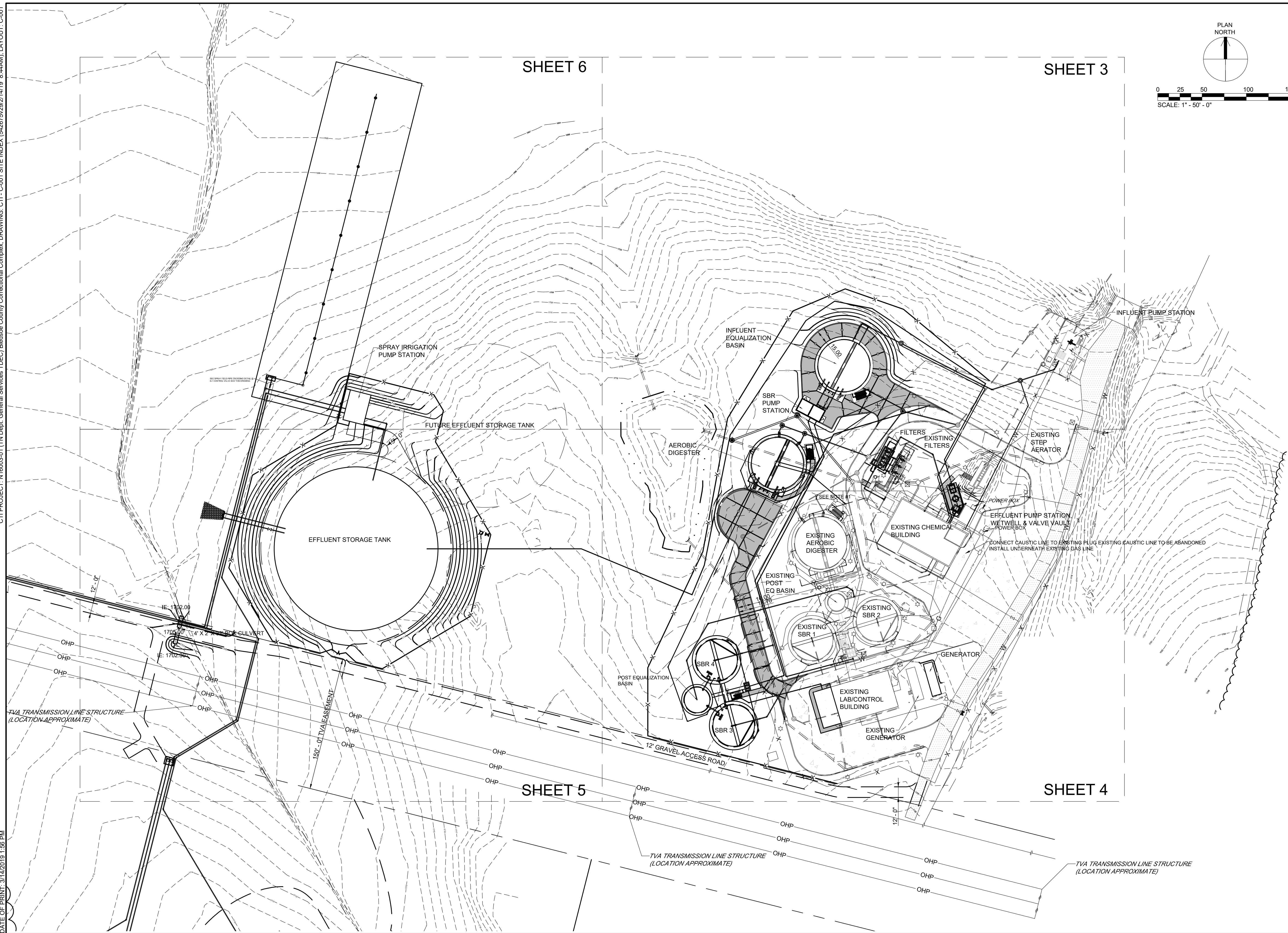
SLUDGE HYDRAULIC PROFILE



JOB NO. N16003
ISSUE DATE November 30, 2018
SCALE NTS
DRAWING NO. G-011

CTI PROJECT: N16003-01 (TN Dept. General Services TDEC) Bledsoe County Correctional Complex, DRAWING: C-001, SITE INDEX (5/28/2019/14/19 8:44AM), LAYOUT: C-001

DATE OF PRINT: 3/14/2019 1:56 PM

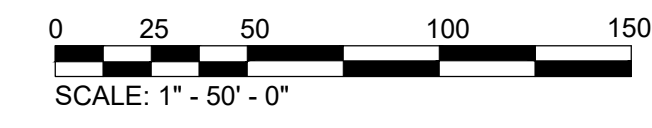
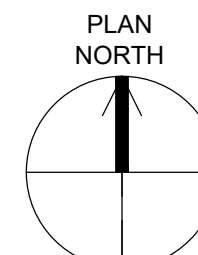


SHEET 6

SHEET 3

SHEET 5

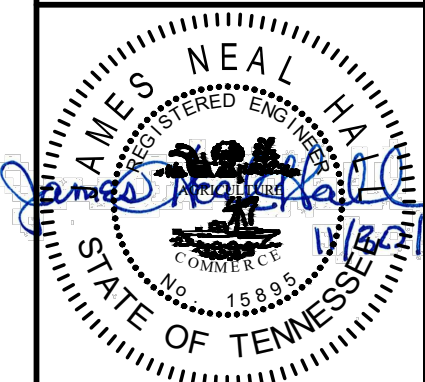
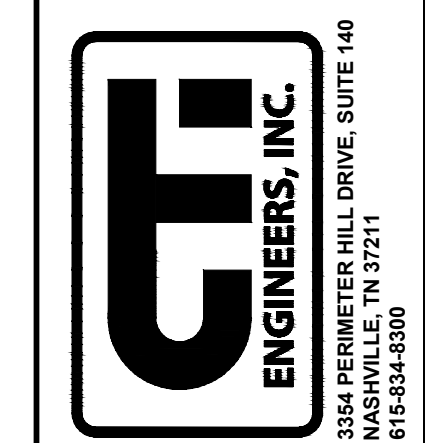
SHEET 4



REVISIONS		DATE	BY	APPD
NO.	DESCRIPTIONS			

DESIGN	DRAWN	CHECKED	APPROVED
NH	JRH	NH	NH

WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

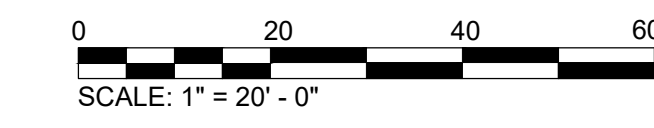
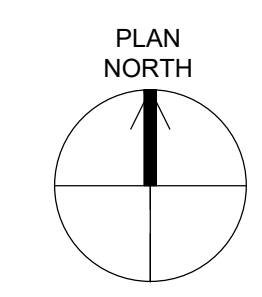


JOB NO. N16003
ISSUE DATE November 30, 2018
SCALE 1" = 50' - 0"
DRAWING NO. C-001

SITE INDEX

CTI PROJECT: N16003-01 (TN Dept. General Services TDEC) Bledsoe County Correctional Complex. DRAWING: CTI-C-002 EXISTING SITE PLAN SHEET 3 (6/6/2019 8:43AM) LAYOUT: 3.0 EXISTING

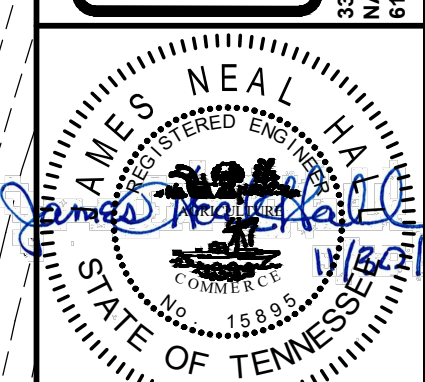
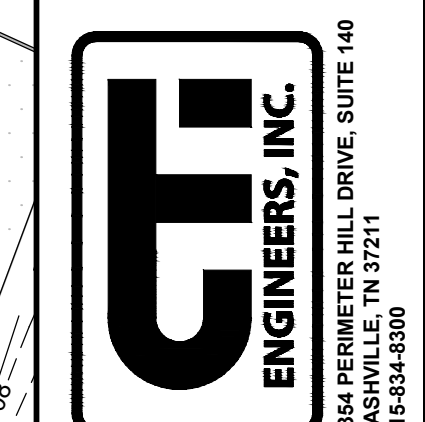
DATE OF PRINT: 3/14/2019 1:57 PM



REVISIONS		DATE	BY	APPD
NO.	DESCRIPTIONS			

DESIGN	DRAWN	CHECKED	APPROVED
NH	JRH	NH	NH

WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06
 EXISTING SITE PLAN
 SHEET 3

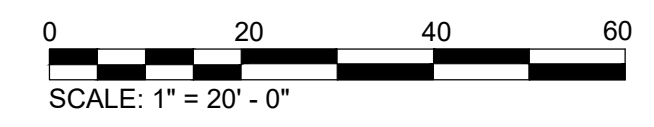
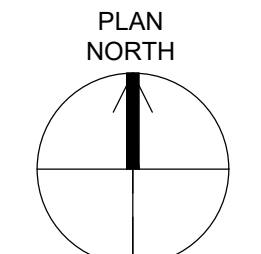


JOB NO.
N16003
 ISSUE DATE
November 30, 2018
 SCALE
1" = 20' - 0"
 DRAWING NO.
C-002

CTI PROJECT: N16003-01 (TN Dept. General Services TDEC) Bledsoe County Correctional Complex, DRAWING: CTI - C-003 EXISTING SITE PLAN SHEET 4 (6/6/2019 8:42AM), LAYOUT: 4.0 EXISTING

SHEET 5

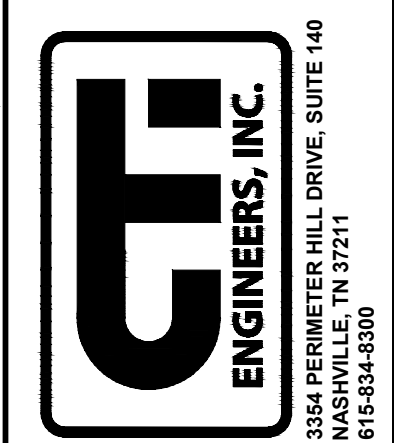
SHEET 3



REVISIONS		DATE	BY	APPD
NO.	DESCRIPTIONS			

DESIGN	DRAWN	CHECKED	APPROVED
NH	JRH	NH	NH

WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

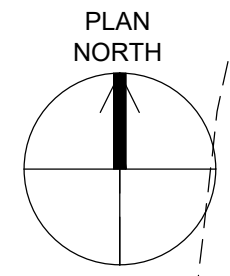


JOB NO. N16003
ISSUE DATE November 30, 2018
SCALE 1" = 20' - 0"
DRAWING NO. C-003

EXISTING SITE PLAN
SHEET 4

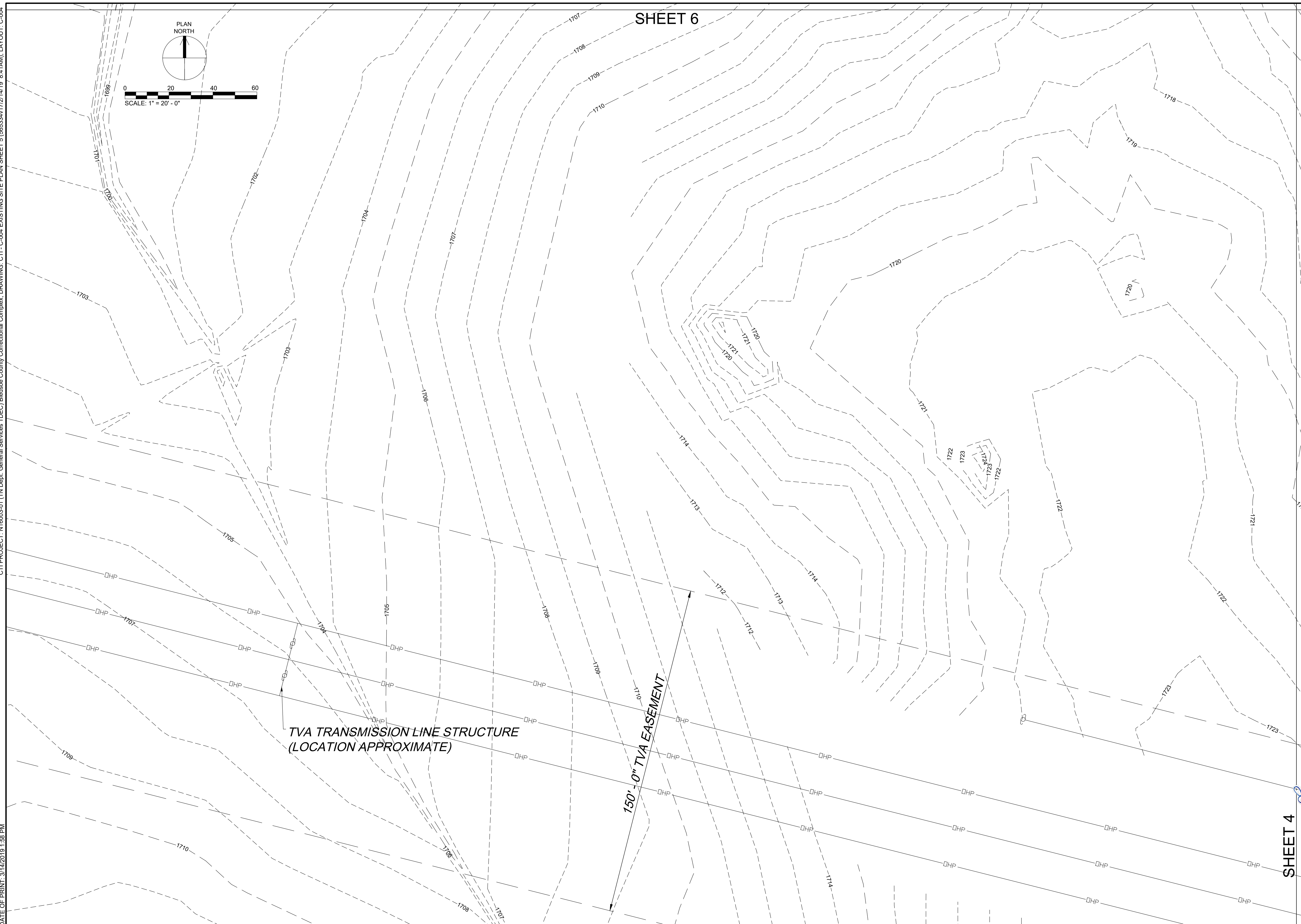
CTI PROJECT: N16003-01 (TN Dept. General Services TDEC) Bledsoe County Correctional Complex, DRAWING: CTI - C-004 EXISTING SITE PLAN SHEET 5 (6/6/2019 8:41AM), LAYOUT: C-004

DATE OF PRINT: 3/14/2019 1:58 PM



SCALE: 1" = 20' - 0"

SHEET 6

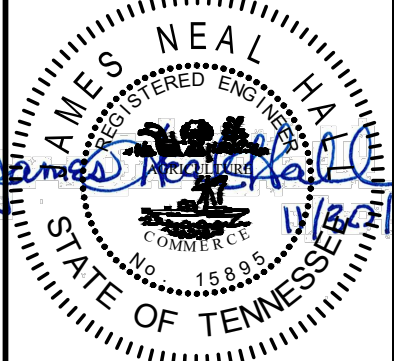
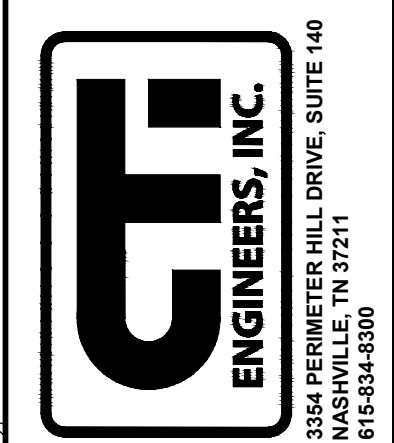


REVISIONS		DATE	BY	APPD
NO.	DESCRIPTIONS			

DESIGN: NH
 DRAWN: JRH
 CHECKED: NH
 APPROVED: NH

WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

EXISTING SITE PLAN
 SHEET 5



SHEET 4

JOB NO.
N16003

ISSUE DATE
November 30, 2018

SCALE
1" = 20' - 0"

DRAWING NO.
C-004

CTI PROJECT: N16003-01 (TN Dept. General Services TDEC) Bledsoe County Correctional Complex, DRAWING: CTI - C-005 EXISTING SITE PLAN SHEET 6 (3/30/25/3/8/2/14/19 8:40AM), LAYOUT: C-005

DATE OF PRINT: 3/14/2019 1:59 PM



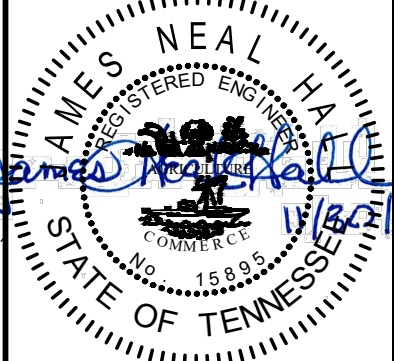
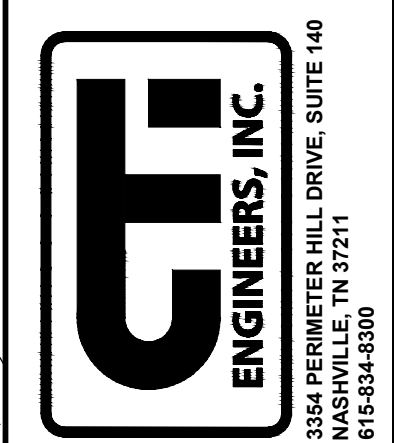
SHEET 3

REVISIONS		DATE	BY	APPD
NO.	DESCRIPTIONS			

DESIGN: NH
 DRAWN: JRH
 CHECKED: NH
 APPROVED: NH

WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SEC PROJECT 142/013-01-2013-06

EXISTING SITE PLAN
 SHEET 6



JOB NO.
N16003

ISSUE DATE
November 30, 2018

SCALE
1" = 20' - 0"

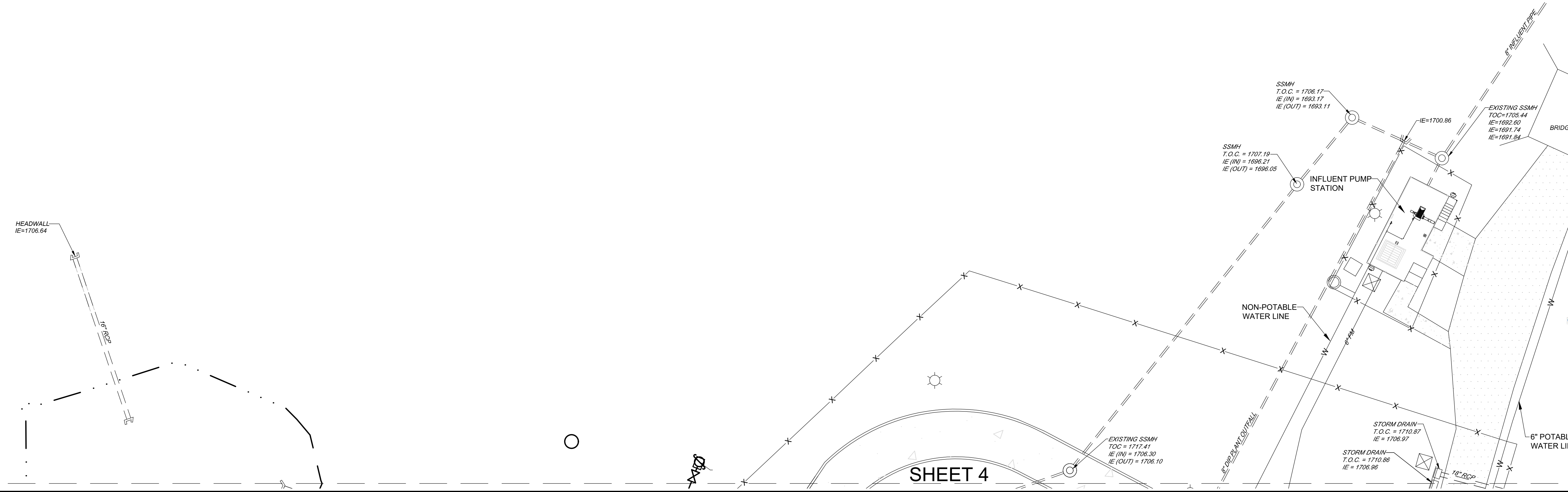
DRAWING NO.
C-005

SHEET 5

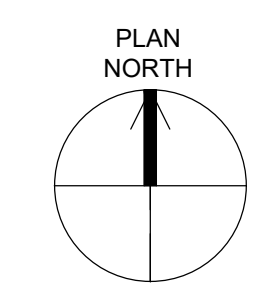
SHEET 6

HEADWALL
IE=1706.64

20" CP



SHEET 4



0 20 40 60
SCALE: 1" = 20' - 0"

DESIGN		REVISIONS	
NH		NO.	DESCRIPTIONS
DRAWN	JRH	DATE	BY
CHECKED	NH		APPD
APPROVED	NH		

WASTEWATER TREATMENT PLANT EXPANSION
BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SEC PROJECT 142/013-01-2013-06

EXISTING SITE PIPING PLAN
 SHEET 3

JAMES NEAL HARRIS
 REGISTERED ENGINEER
 No. 15889
 STATE OF TENNESSEE

JOB NO.
 N16003

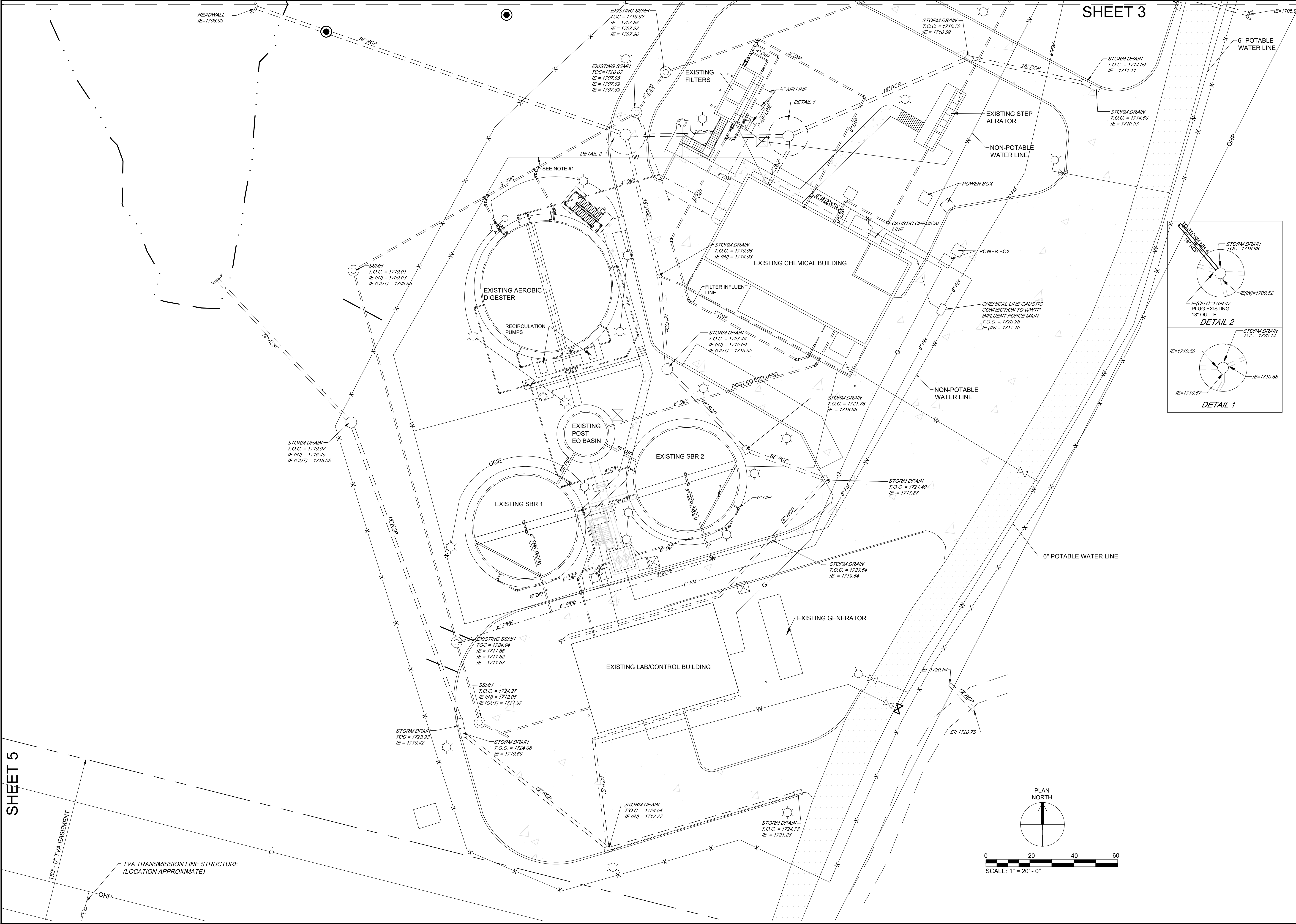
ISSUE DATE
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SCALE
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DRAWING NO.
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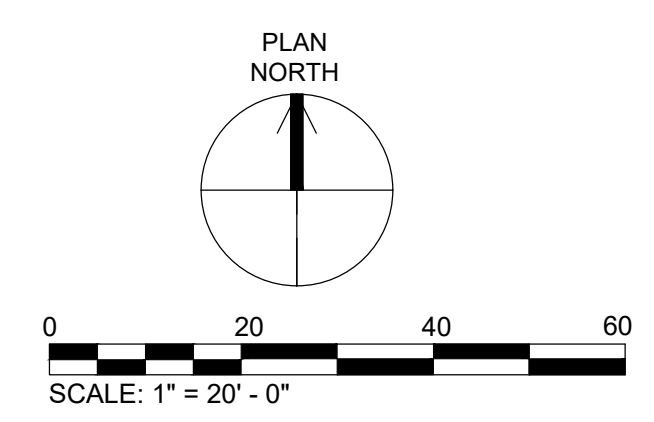
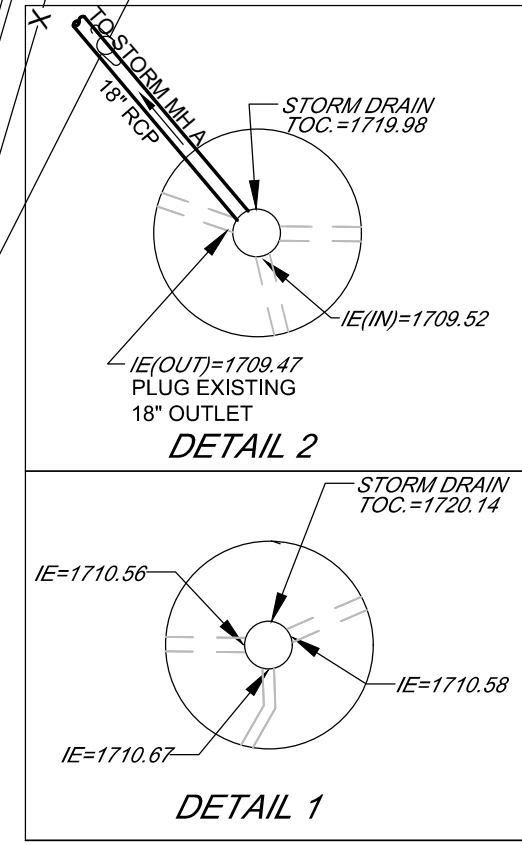
CTI PROJECT: N16003-01 (TN Dept. General Services TDEC) Bledsoe County Correctional Complex DRAWING: CTT - C-007 EXISTING SITE PIPING PLAN SHEET 4 (6/6/2019 12:28PM). LAYOUT: 4.0 EXISTING

DATE OF PRINT: 3/14/2019 2:02 PM



SHEET 3

SHEET 5

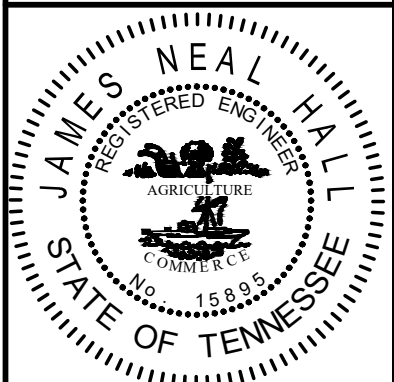
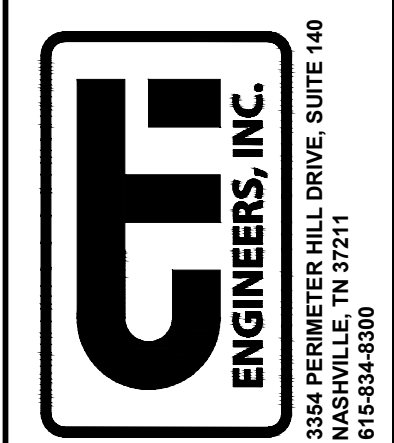


REVISIONS		DATE	BY	APPD
NO.	DESCRIPTIONS			

DESIGN: NH
DRAWN: JRH
CHECKED: NH
APPROVED: NH

WASTEWATER TREATMENT PLANT EXPANSION
BLEDSOE COUNTY CORRECTIONAL COMPLEX
PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

EXISTING SITE PIPING PLAN
SHEET 4



JOB NO.
N16003

ISSUE DATE
November 30, 2018

SCALE
1" = 20' - 0"

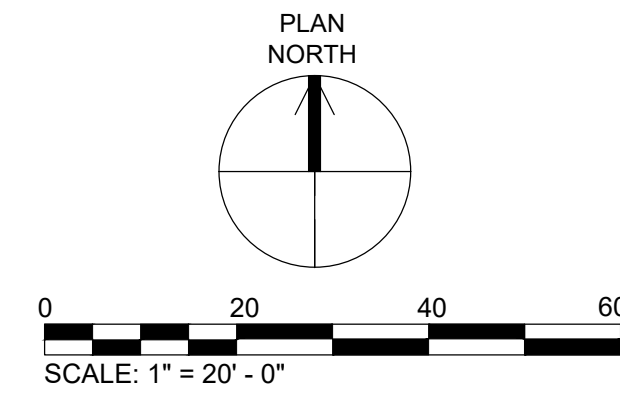
DRAWING NO.
C-007

CTI PROJECT: N16003.01 CTI Dist. General Services DEFOJ Bledsoe County Correctional Complex. DRAWING: CTL-C-008 SITE PLAN SHEET 3 (65653632719) 1:50 PLAN LAYOUT: 7.0

DATE OF PRINT: 3/14/2019 2:03 PM

SHEET 6

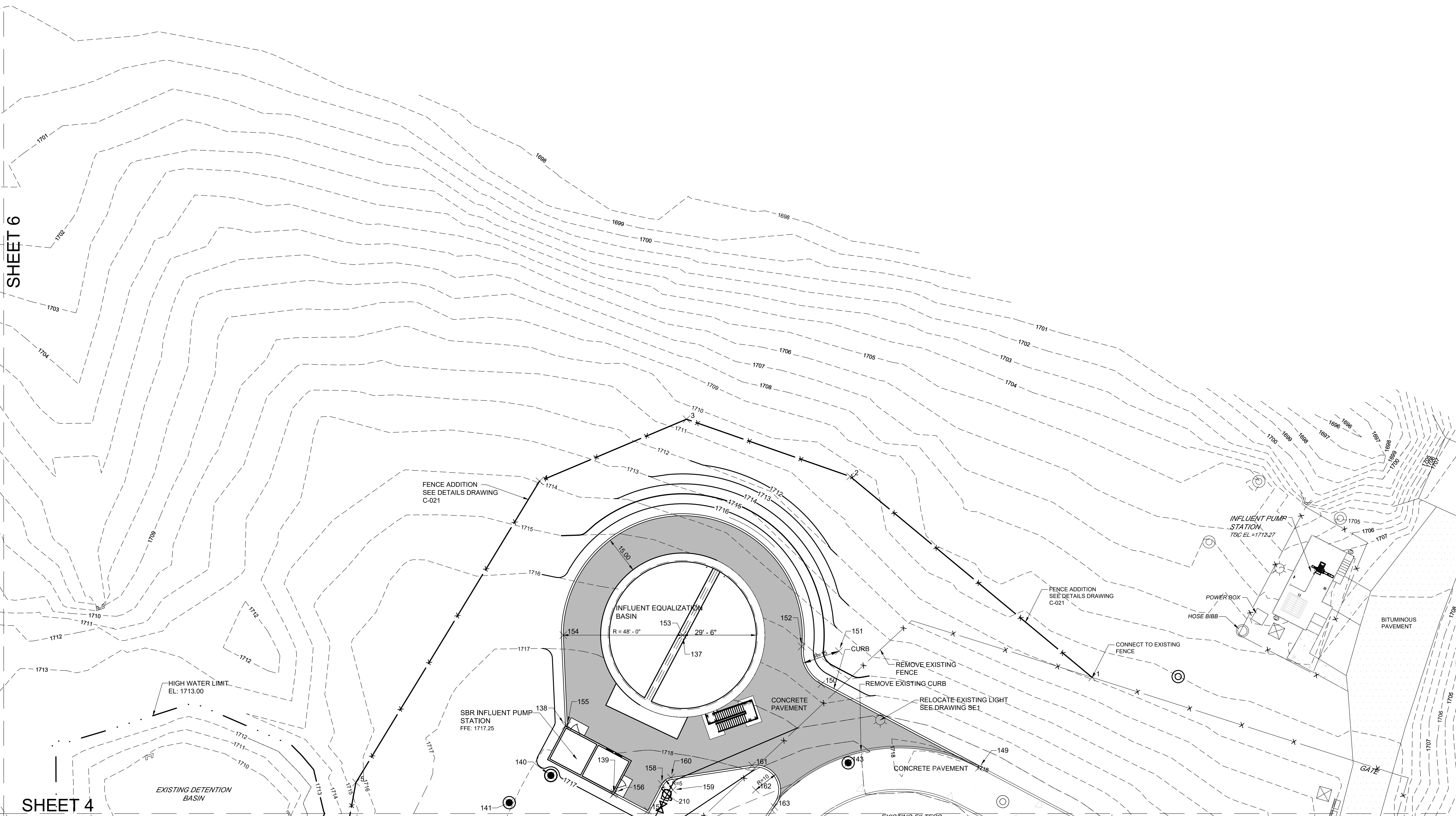
SHEET 4



SITE CONTROL COORDINATES			
CP#	NORTHING	EASTING	DESCRIPTION
CP-1	511495.13	2190796.32	40p
CP-2	510885.51	2190578.47	PKn
CP-3	510817.95	2190364.92	40p
CP-4	511009.51	2190331.45	40p

SITE COORDINATE LEGEND	
FC	FENCE CORNER
MH	MANHOLE
FOC	FACE OF CURB
R##	RADIUS
PT	POINT OF TANGENCY
PC	POINT OF CURVATURE
BLD	STRUCTURE CORNER
SS	SANITARY SEWER
ST	STORM SEWER
CEN	CENTER OF STRUCTURE
CVB	CONTROL VALVE BOX
BLD	BUILDING CORNER
SW	SIDEWALK

SITE COORDINATES			
#	NORTHING	EASTING	DESCRIPTION
1	511230.00	2190595.98	FC
2	511310.78	2190498.73	FC
3	511333.77	2190432.98	FC
4	511308.87	2190373.94	FC
5	511187.77	2190300.17	FC
138	511210.54	2190384.35	CORNER SBR PS
139	511182.93	2190403.66	CORNER SBR PS
140	511190.59	2190378.47	ST MH A
141	511179.67	2190361.76	SS MH C
149	511193.71	2190550.45	FOC
150	511227.28	2190487.15	FOC PC
151	511240.57	2190494.21	R15
152	511242.46	2190479.29	FOC PT
153	511247.00	2190431.50	R48
154	511247.00	2190383.50	FOC PT
155	511210.81	2190385.10	FOC
156	511183.64	2190404.04	FOC
157	511176.52	2190417.46	FOC
158	511187.15	2190423.10	FOC PC
159	511184.80	2190427.51	R6
160	511189.75	2190426.76	FOC PT
161	511194.69	2190459.33	FOC PC
162	511184.80	2190460.83	R10
163	511177.98	2190468.29	FOC PT
210	511183.18	2190425.07	HYDRANT



DESIGN		REVISIONS	
NH	APPD	NO.	DATE
DRAWN	BY	DESCRIPTIONS	
JRH			
CHECKED			
NH			
APPROVED			
NH			

WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

ENGINEERS, INC.
 3354 PERIMETER HILL DRIVE, SUITE 140
 NASHVILLE, TN 37211
 615-834-8500

STATE OF TENNESSEE
 REGISTERED ENGINEER
 JAMES NEAL HARRIS
 No. 15889
 EXPIRES 12/31/2020

JOB NO.
N16003

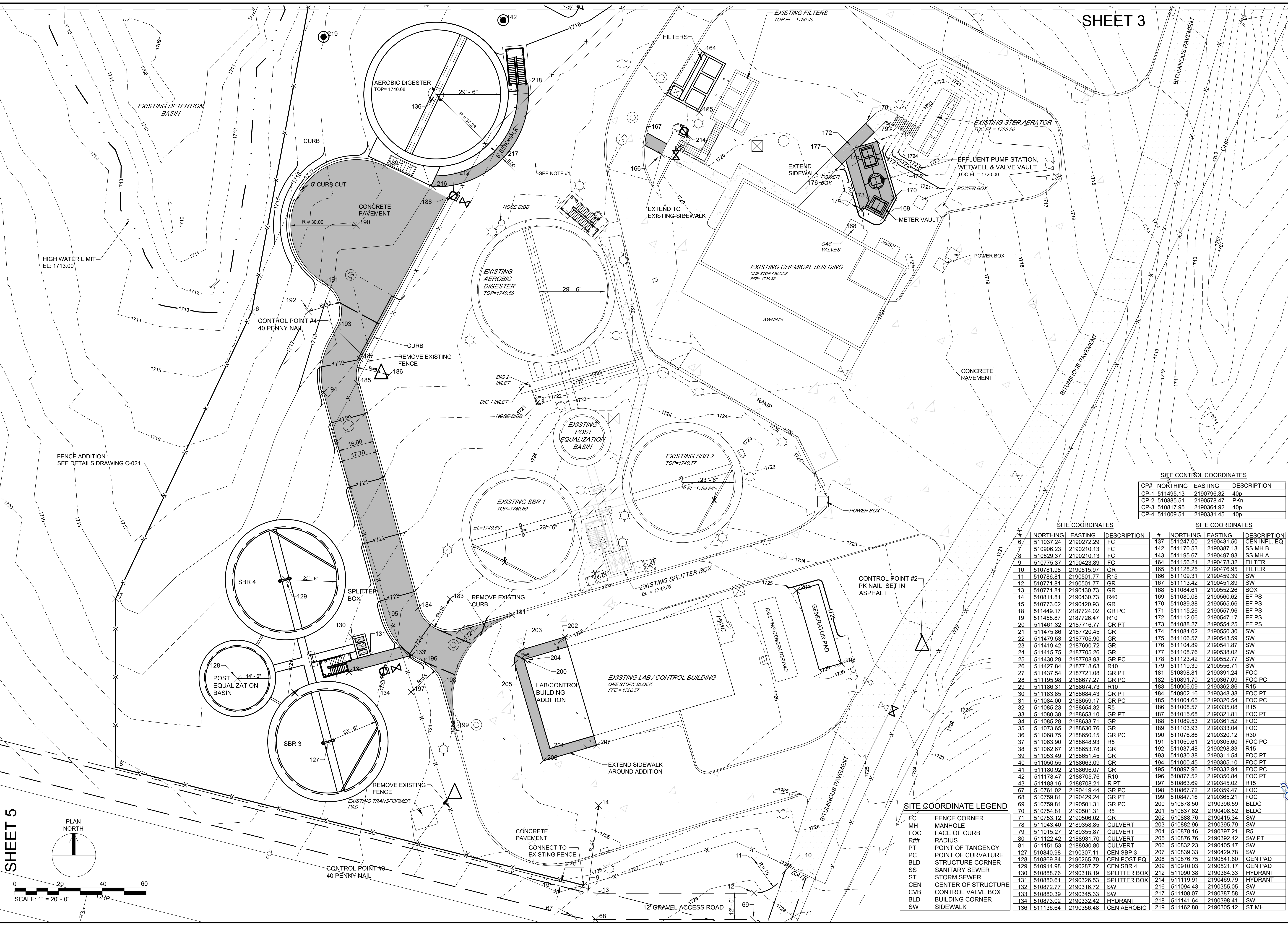
ISSUE DATE
November 30, 2018

SCALE
1" = 20' - 0"

DRAWING NO.
C-008

CTI PROJECT: N16003-01 (TN Dept. General Services TDEC) Bledsoe County Correctional Complex, DRAWING: CTI - C-009 SITE PLAN SHEET 4 (5/27/18/19 2:08PM), LAYOUT: C-009
 DATE OF PRINT: 3/14/2019 2:05 PM

SHEET 3



SITE CONTROL COORDINATES

CP#	NORTHING	EASTING	DESCRIPTION
CP-1	511495.13	2190796.32	40p
CP-2	510885.51	2190578.47	PK#
CP-3	510817.95	2190364.92	40p
CP-4	511009.51	2190331.45	40p

SITE COORDINATES

#	NORTHING	EASTING	DESCRIPTION	#	NORTHING	EASTING	DESCRIPTION
6	511037.24	2190272.29	FC	137	511247.00	2190431.50	CEN INFL. EQ
7	510906.23	2190210.13	FC	142	511170.53	2190387.13	SS MH B
8	510829.37	2190210.13	FC	143	511195.57	2190497.93	SS MH A
9	510775.37	2190423.89	FC	164	511156.21	2190478.32	FILTER
10	510781.98	2190515.97	GR	165	511128.25	2190478.95	FILTER
11	510786.81	2190501.77	R15	166	511109.31	2190459.39	SW
12	510771.81	2190501.77	GR	167	511113.42	2190451.89	SW
13	510771.81	2190430.73	GR	168	511084.61	2190552.26	BOX
14	510811.81	2190430.73	R40	169	511080.08	2190560.62	EF PS
15	510773.02	2190420.93	GR	170	511089.38	2190565.66	EF PS
16	511449.17	2187724.02	GR PC	171	511115.26	2190557.96	EF PS
17	511458.87	2187726.47	R10	172	511112.06	2190547.17	EF PS
18	511461.32	2187716.77	GR PT	173	511088.27	2190554.25	EF PS
19	511475.86	2187720.45	GR	174	511084.02	2190550.30	SW
20	511479.53	2187705.90	GR	175	511106.57	2190549.59	SW
21	511419.42	2187690.72	GR	176	511104.89	2190541.87	SW
22	511415.75	2187705.26	GR	177	511108.76	2190538.02	SW
23	511430.29	2187708.93	GR PC	178	511123.42	2190552.77	SW
24	511427.84	2187718.63	R10	179	511119.39	2190556.71	SW
25	511437.54	2187721.08	GR PT	181	511089.81	2190391.24	FOC
26	511195.98	2188677.27	GR PC	182	510891.70	2190367.09	FOC PC
27	511186.31	2188674.73	R10	183	510906.09	2190362.86	R15
28	511183.85	2188684.43	GR PT	184	510902.16	2190348.38	FOC PT
29	511084.00	2188659.17	GR PC	185	511004.65	2190330.54	FOC PC
30	511085.23	2188654.32	R5	186	511008.57	2190330.98	R15
31	511080.98	2188653.10	GR PT	187	511015.68	2190321.81	FOC PT
32	511085.28	2188633.71	GR	188	511089.53	2190361.52	FOC
33	511073.65	2188630.76	GR	189	511103.93	2190333.04	FOC
34	511068.75	2188650.15	GR PC	190	511076.86	2190320.12	R30
35	511063.90	2188648.93	R5	191	511050.61	2190305.60	FOC PC
36	511062.67	2188653.78	GR	192	511037.48	2190298.33	R15
37	511053.49	2188651.45	GR	193	511030.38	2190311.54	FOC PT
38	511050.55	2188663.09	GR	194	511000.45	2190305.10	FOC PT
39	511180.92	2188696.07	GR	195	510897.96	2190332.42	FOC PC
40	511178.47	2188705.76	R10	196	510877.52	2190350.84	FOC PT
41	511188.16	2188708.21	R PT	197	510863.69	2190345.02	R15
42	510761.02	2190419.44	GR PC	198	510867.72	2190359.47	FOC
43	510759.81	2190429.24	GR PT	199	510847.16	2190365.21	FOC
44	510759.81	2190501.31	GR PC	200	510878.50	2190396.59	BLDG
45	510754.81	2190501.31	R5	201	510837.82	2190408.52	BLDG
46	510753.12	2190506.02	GR	202	510888.76	2190415.34	SW
47	511043.40	2189358.85	CULVERT	203	510882.96	2190395.79	SW
48	511015.27	2189355.87	CULVERT	204	510878.16	2190397.21	R5
49	511122.42	2189331.70	CULVERT	205	510876.76	2190392.42	SW PT
50	511151.53	2189330.80	CULVERT	206	510832.53	2190405.47	SW
51	510840.90	2190397.11	CEN SBR 3	207	510839.32	2190429.78	SW
52	510869.84	2190265.70	CEN POST EQ	208	510876.75	2190541.60	GEN PAD
53	510914.98	2190287.72	CEN SBR 4	209	510910.03	2190521.17	GEN PAD
54	510888.76	2190318.19	SPLITTER BOX	210	510930.38	2190364.33	HYDRANT
55	510880.61	2190326.53	SPLITTER BOX	211	511119.91	2190469.79	HYDRANT
56	510872.77	2190316.72	SW	212	511094.43	2190355.05	SW
57	510880.39	2190345.33	SW	213	511108.07	2190387.58	SW
58	510873.02	2190332.42	HYDRANT	214	511141.64	2190398.41	SW
59	511136.64	2190356.48	CEN AEROBIC	215	511162.88	2190305.12	ST MH

SITE COORDINATE LEGEND

FC	FENCE CORNER
MH	MANHOLE
F#	FACE OF CURB
R#	RADIUS
PT	POINT OF TANGENCY
PC	POINT OF CURVATURE
BLD	STRUCTURE CORNER
SS	SANITARY SEWER
ST	STORM SEWER
CEN	CENTER OF STRUCTURE
CVB	CONTROL VALVE BOX
BLD	BUILDING CORNER
SW	SIDEWALK

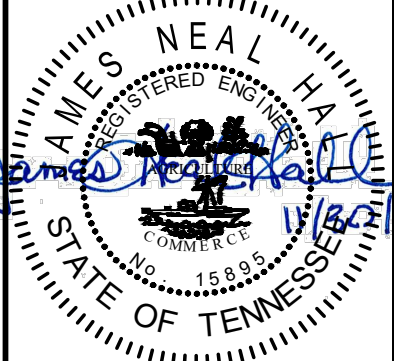
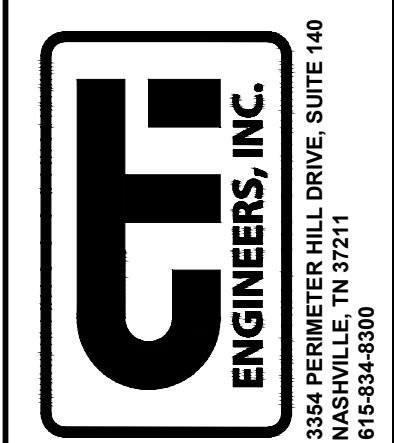
REVISIONS

NO.	DATE	BY	APPD	DESCRIPTIONS

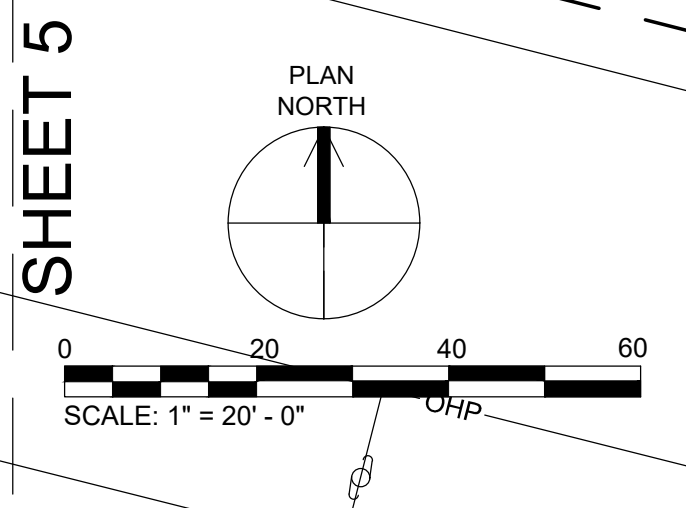
DESIGN: NH, DRAWN: JRH, CHECKED: NH, APPROVED: NH

WASTEWATER TREATMENT PLANT EXPANSION
BLED SOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLED SOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

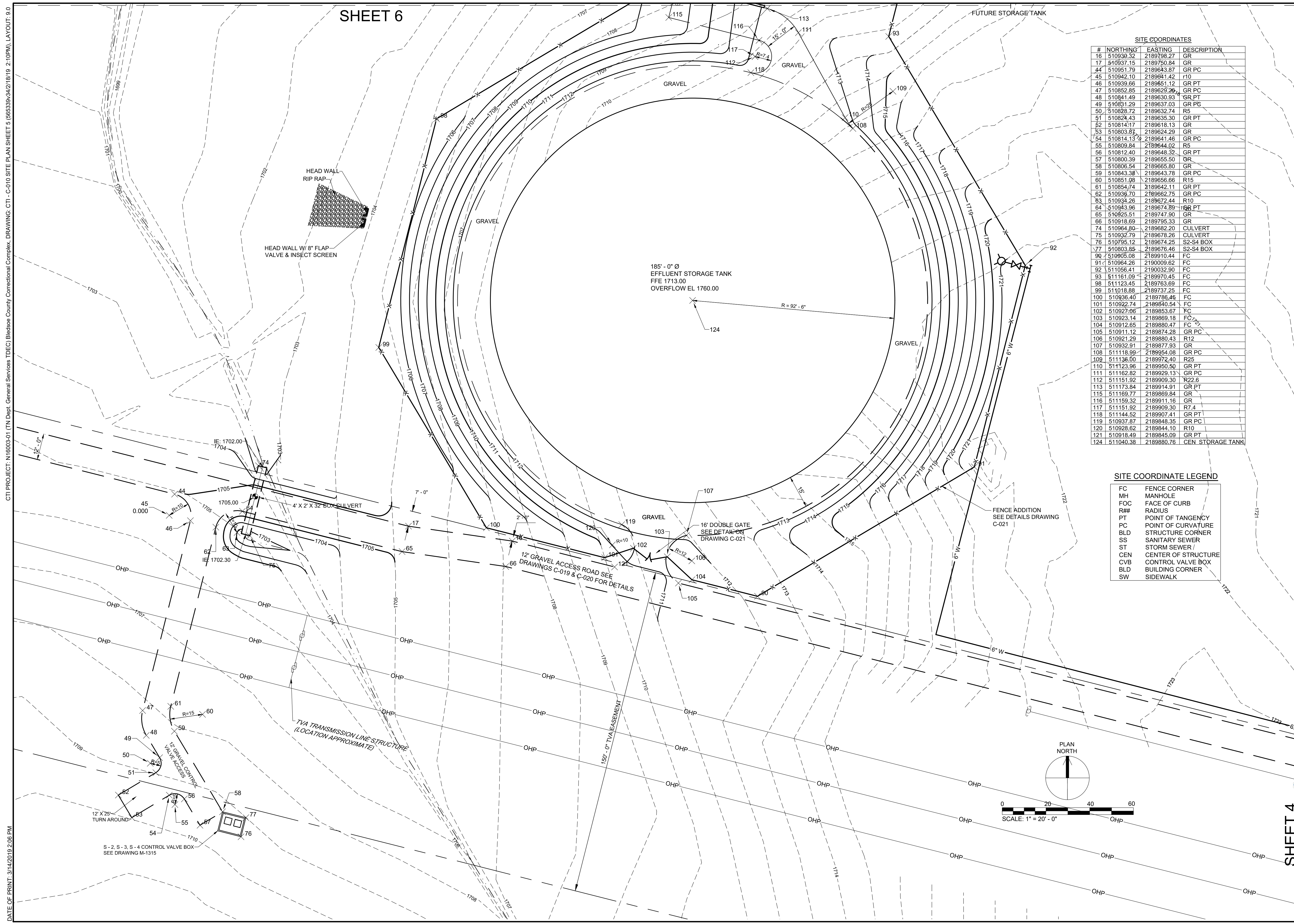
SITE PLAN SHEET 4



JOB NO. N16003
 ISSUE DATE: November 30, 2018
 SCALE: 1" = 20' - 0"
 DRAWING NO. C-009

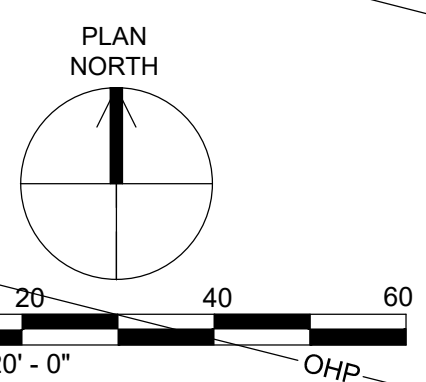


SHEET 6



SITE COORDINATES			
#	NORTHING	EASTING	DESCRIPTION
16	510930.32	2189798.27	GR
17	510937.15	2189750.84	GR
44	510951.79	2189643.87	GR PC
45	510942.10	2189641.42	R10
46	510939.66	2189651.12	GR PT
47	510852.85	2189629.26	GR PC
48	510841.49	2189630.93	GR PT
49	510851.29	2189637.03	GR PC
50	510838.72	2189632.74	R5
51	510824.43	2189635.30	GR PT
52	510814.17	2189618.13	GR
53	510803.87	2189624.29	GR
54	510814.13	2189641.46	GR PC
55	510809.84	2189644.02	R5
56	510812.40	2189648.32	GR PT
57	510800.39	2189655.50	GR
58	510806.54	2189665.80	GR
59	510843.38	2189643.78	GR PC
60	510851.98	2189656.66	R15
61	510854.74	2189642.11	GR PT
62	510936.70	2189662.75	GR PC
63	510934.26	2189672.44	R10
64	510943.96	2189674.89	GR PT
65	510925.51	2189747.90	GR
66	510918.69	2189795.33	GR
74	510964.80	2189682.20	CULVERT
75	510932.79	2189678.26	CULVERT
76	510795.12	2189674.25	SZ-S4 BOX
77	510903.65	2189676.46	SZ-S4 BOX
90	510905.08	2189910.44	FC
91	510964.26	2190009.62	FC
92	511056.41	2190032.90	FC
93	511161.09	2189970.45	FC
98	511123.45	2189763.69	FC
99	511018.88	2189737.25	FC
100	510936.40	2189786.45	FC
101	510922.74	2189940.54	FC
102	510927.06	2189653.67	FC
103	510923.14	2189669.18	FC
104	510912.65	2189830.47	FC
105	510911.12	2189874.28	GR PC
106	510921.29	2189880.43	R12
107	510932.91	2189877.93	GR
108	511118.99	2189954.08	GR PC
109	511136.00	2189972.40	R25
110	511123.96	2189950.50	GR PT
111	511162.82	2189929.13	GR PC
112	511151.92	2189909.30	R22.6
113	511173.84	2189914.91	GR PT
115	511169.77	2189869.84	GR
116	511159.32	2189911.16	GR
117	511151.92	2189909.30	R7.4
118	511144.52	2189907.41	GR PT
119	510937.87	2189848.35	GR PC
120	510928.62	2189844.10	R10
121	510918.49	2189845.09	GR PT
124	511040.38	2189880.76	CEN STORAGE TANK

SITE COORDINATE LEGEND	
FC	FENCE CORNER
MH	MANHOLE
FOC	FACE OF CURB
R##	RADIUS
PT	POINT OF TANGENCY
PC	POINT OF CURVATURE
BLD	STRUCTURE CORNER
SS	SANITARY SEWER
ST	STORM SEWER /
CEN	CENTER OF STRUCTURE
CVB	CONTROL VALVE BOX
BLD	BUILDING CORNER
SW	SIDEWALK

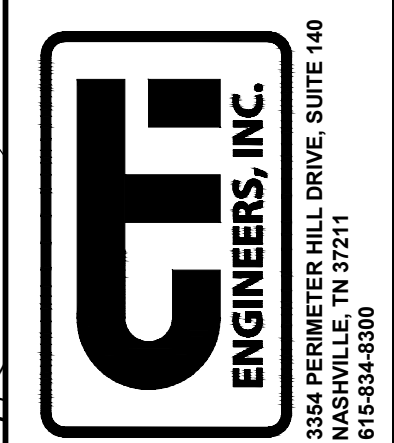


NO.	DATE	BY	APPD	REVISIONS	
				DESCRIPTIONS	

DESIGN: NH
 DRAWN: JRH
 CHECKED: NH
 APPROVED: NH

WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

SITE PLAN
 SHEET 5



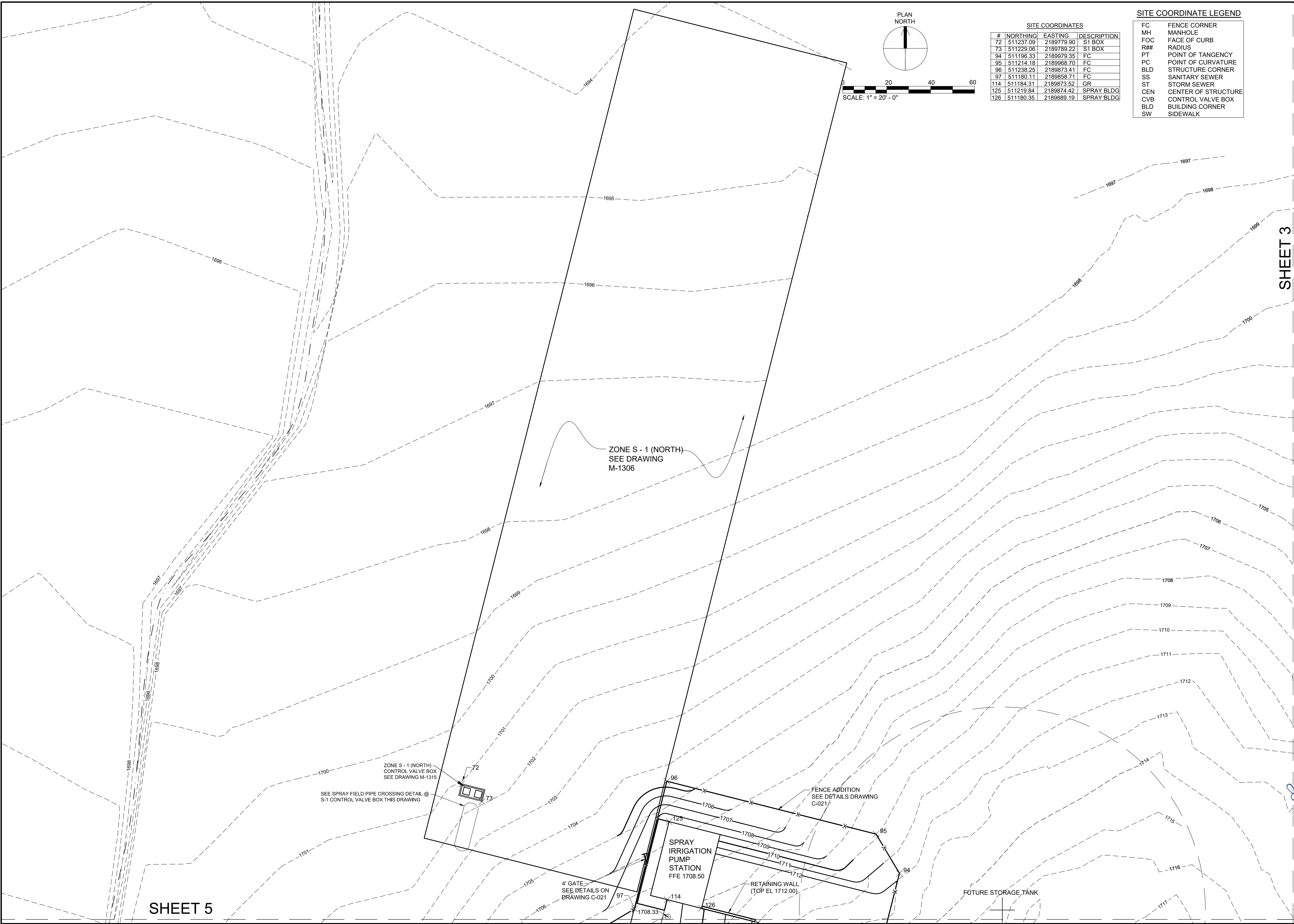
JOB NO.
 N16003
 ISSUE DATE
 November 30, 2018
 SCALE
 1" = 20' - 0"
 DRAWING NO.
 C-010

CTI PROJECT: N16003-01 (TN Dept. General Services TDEC) Bledsoe County Correctional Complex, DRAWING: CTT - C-010 SITE PLAN SHEET 5 (663339/342/18/19 2:10PM), LAYOUT: 9.0
 DATE OF PRINT: 3/14/2019 2:06 PM

SHEET 4

CTI PROJECT: N16003-01 (TN Dept. General Services TDEC) Bledsoe County Correctional Complex, DRAWING: CTI - C-011 SITE PLAN SHEET 6 (565340/342/18/19 2:11PM), LAYOUT: C-011

DATE OF PRINT: 3/14/2019 2:07 PM



SITE COORDINATES			
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72	511237.09	2189779.90	S1 BOX
73	511229.06	2189789.22	S1 BOX
94	511196.33	2189979.35	FC
95	511214.18	2189968.70	FC
96	511238.25	2189873.41	FC
97	511180.11	2189858.71	FC
114	511184.31	2189873.52	GR
125	511219.84	2189874.42	SPRAY BLDG
126	511180.35	2189889.19	SPRAY BLDG

SITE COORDINATE LEGEND	
FC	FENCE CORNER
MH	MANHOLE
FOC	FACE OF CURB
R##	RADIUS
PT	POINT OF TANGENCY
PC	POINT OF CURVATURE
BLD	STRUCTURE CORNER
SS	SANITARY SEWER
ST	STORM SEWER
CEN	CENTER OF STRUCTURE
CVB	CONTROL VALVE BOX
BLD	BUILDING CORNER
SW	SIDEWALK

SHEET 3

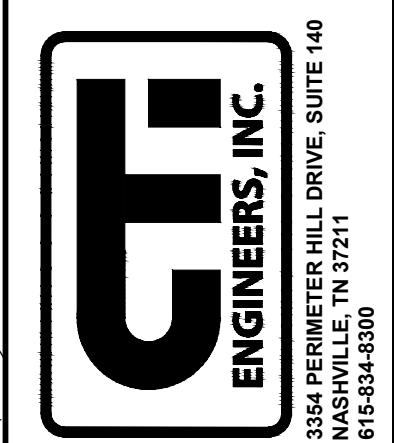
SHEET 5

REVISIONS		DATE	BY	APPD
NO.	DESCRIPTIONS			

DESIGN: NH, DRAWN: JRH, CHECKED: NH, APPROVED: NH

WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SEC PROJECT 142/013-01-2013-06

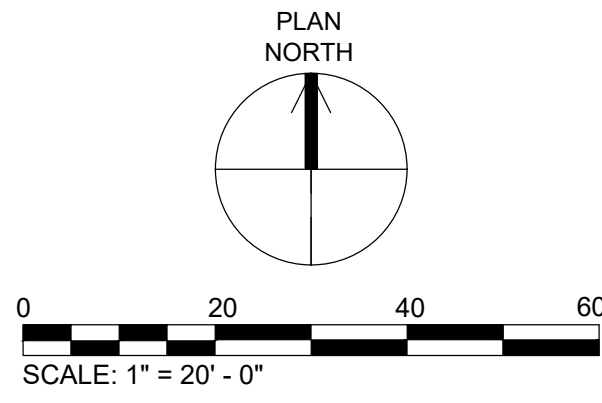
SITE PLAN
 SHEET 6



JOB NO. N16003
ISSUE DATE November 30, 2018
SCALE 1" = 20' - 0"
DRAWING NO. C-011

SHEET 6

SHEET 4



PIPE LAYOUT COORDINATES			
#	NORTHING	EASTING	DESCRIPTION
180	511229.19	2190630.91	CHEM MH
323	511242.81	2190668.94	8" 45 BEND
324	511219.98	2190598.64	8" 45 BEND
325	511294.73	2190451.99	8" 90 BEND
326	511292.99	2190451.06	8" VALVE
327	511289.26	2190458.09	8" VALVE
328	511291.12	2190459.08	8" TEE
331	511226.87	2190591.40	6" PIPE
332	511311.61	2190463.38	6" PIPE
333	511319.85	2190420.98	6" PIPE
334	511298.03	2190388.63	6" PIPE
339	511205.83	2190402.60	8" VALVE
340	511203.53	2190401.38	8" TEE
341	511201.65	2190404.90	8" TEE
342	511199.78	2190408.44	8" TEE
343	511197.90	2190411.97	8" 90 BEND
344	511200.20	2190413.19	8" VALVE
346	511202.28	2190639.64	CAUSTIC LINE
360	511179.94	2190398.21	6" 45 BEND
361	511183.69	2190391.14	6" 45 BEND
420	511221.29	2190590.94	CHEM LINE
421	511269.20	2190496.95	CHEM LINE
422	511272.34	2190495.93	CHEM MH

DESIGN	DRAWN	CHECKED	APPROVED	REVISIONS	
				NO.	DESCRIPTIONS
NH	JRH	NH	NH		
				DATE	BY
					APPD

WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SEC PROJECT 142/013-01-2013-06

DESIGN: NH
 DRAWN: JRH
 CHECKED: NH
 APPROVED: NH

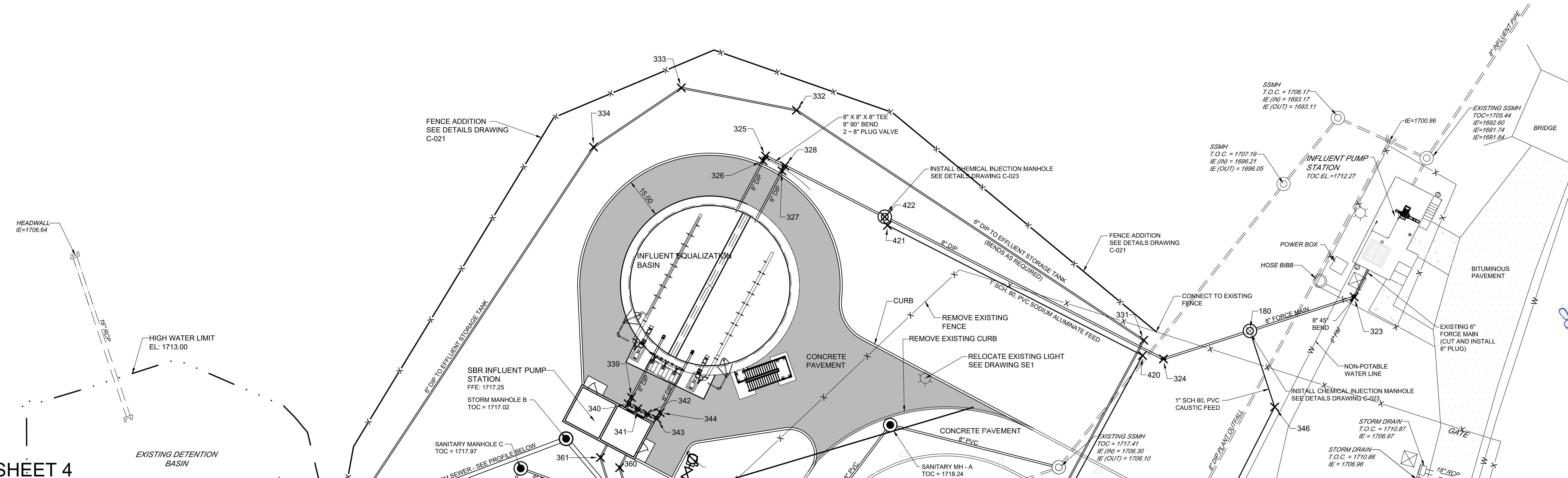
DATE: _____ BY: _____

ENGINEERS, INC.

3354 PERMETER HILL DRIVE, SUITE 140
 NASHVILLE, TN 37211
 615-834-8500

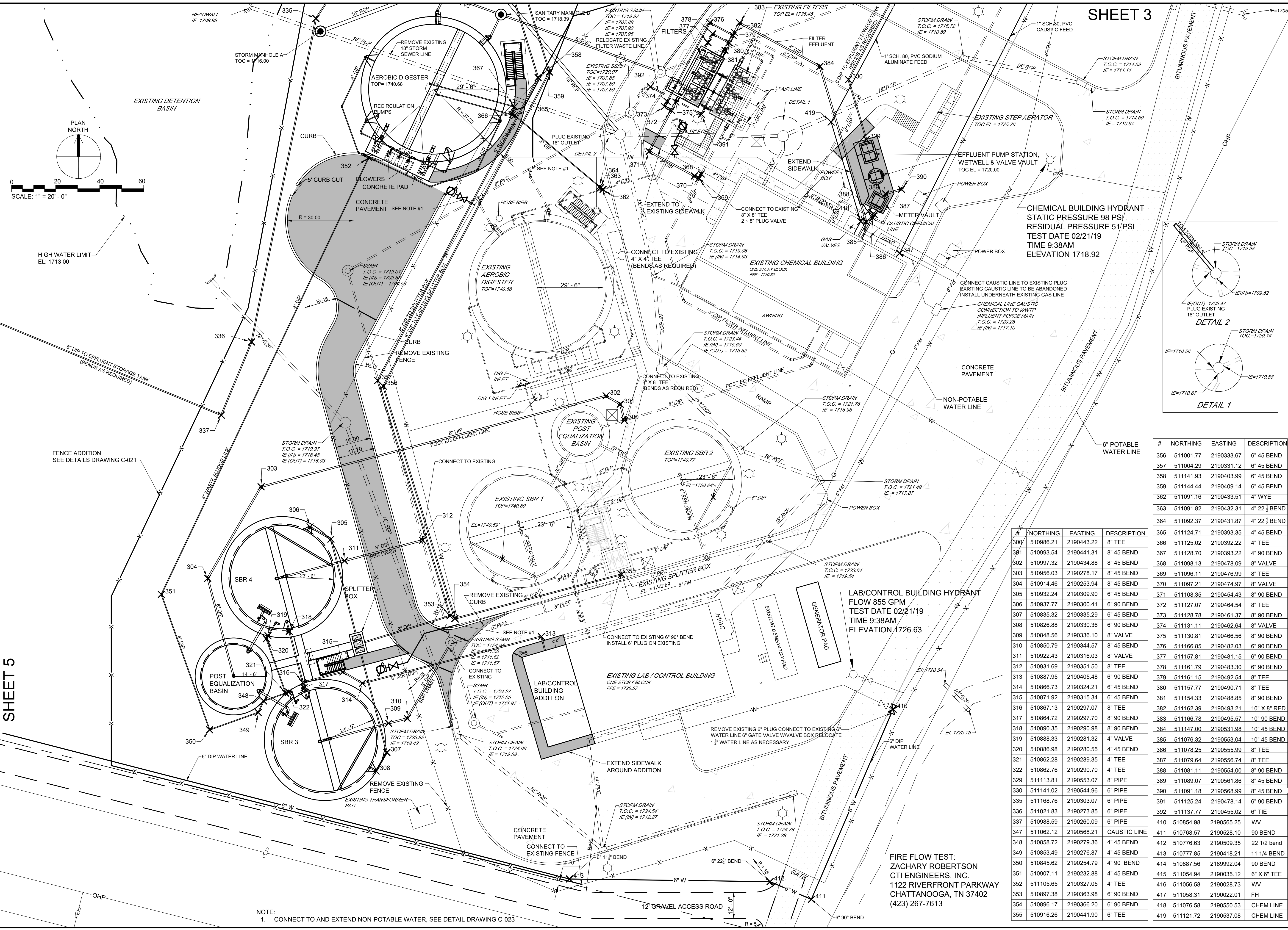
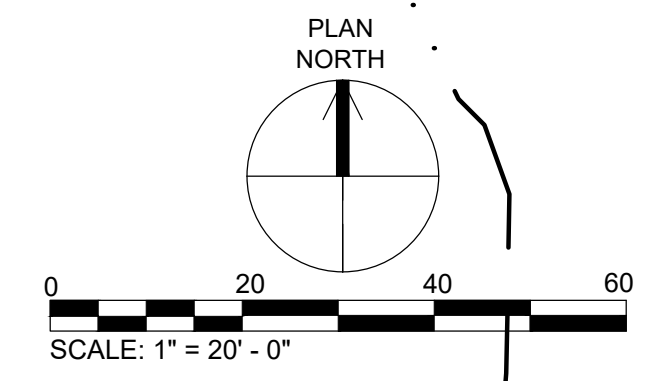
REGISTERED ENGINEER
 STATE OF TENNESSEE
 NO. 15889

JOB NO. N16003
 ISSUE DATE: November 30, 2018
 SCALE: 1" = 20' - 0"
 DRAWING NO. C-012



CTI PROJECT: N16003-01 (TN Dept. General Services - TDEC) Bledsoe County Correctional Complex DRAWING: CTI_C-013 SITE PIPING PLAN SHEET 4 (6:56:39 AM) LAYOUT: C-013

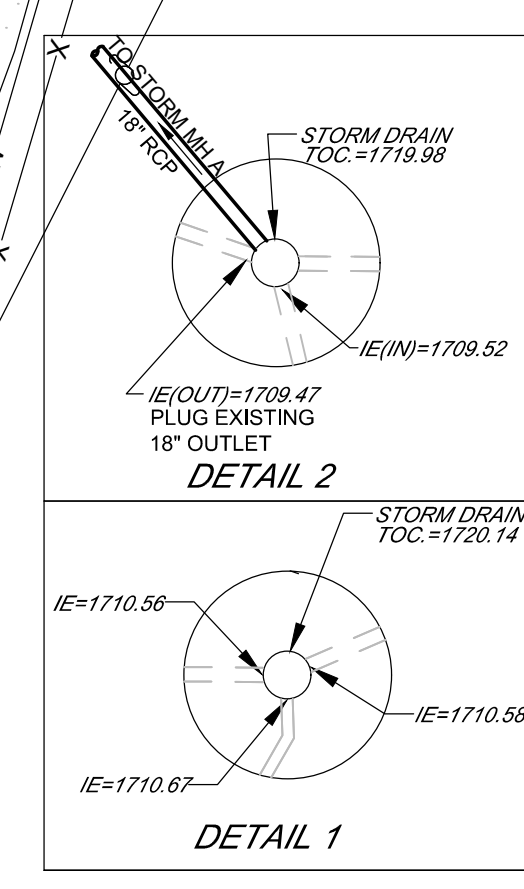
SHEET 3



CHEMICAL BUILDING HYDRANT
 STATIC PRESSURE 98 PSI
 RESIDUAL PRESSURE 51 PSI
 TEST DATE 02/21/19
 TIME 9:38AM
 ELEVATION 1718.92

LAB/CONTROL BUILDING HYDRANT
 FLOW 855 GPM
 TEST DATE 02/21/19
 TIME 9:38AM
 ELEVATION 1726.63

FIRE FLOW TEST:
 ZACHARY ROBERTSON
 CTI ENGINEERS, INC.
 1122 RIVERFRONT PARKWAY
 CHATTANOOGA, TN 37402
 (423) 267-7613



#	NORTHING	EASTING	DESCRIPTION
300	510986.21	2190443.22	8" TEE
301	510993.54	2190441.31	8" 45 BEND
302	510997.32	2190434.88	8" 45 BEND
303	510956.03	2190278.17	8" 45 BEND
304	510914.46	2190253.94	8" 45 BEND
305	510932.24	2190309.90	6" 45 BEND
306	510937.77	2190300.41	6" 90 BEND
307	510835.32	2190335.29	6" 45 BEND
308	510826.88	2190330.36	6" 90 BEND
309	510848.56	2190336.10	8" VALVE
310	510850.79	2190405.48	6" 45 BEND
311	510922.43	2190316.03	8" VALVE
312	510931.69	2190351.50	8" TEE
313	510887.95	2190405.48	6" 90 BEND
314	510866.73	2190324.21	6" 45 BEND
315	510871.92	2190315.34	6" 45 BEND
316	510867.13	2190297.07	8" TEE
317	510864.72	2190297.70	8" 90 BEND
318	510890.35	2190290.98	8" 90 BEND
319	510888.33	2190281.32	4" VALVE
320	510886.98	2190280.55	4" 45 BEND
321	510862.28	2190289.35	4" TEE
322	510862.76	2190290.70	4" TEE
329	511113.81	2190553.07	8" PIPE
330	511141.02	2190544.96	6" PIPE
335	511168.76	2190303.07	6" PIPE
336	511021.83	2190273.85	6" PIPE
337	510988.59	2190260.09	6" PIPE
347	511062.12	2190568.21	CAUSTIC LINE
348	510858.72	2190279.36	4" 45 BEND
349	510853.49	2190276.87	4" 45 BEND
350	510845.62	2190254.79	4" 90 BEND
351	510907.11	2190232.88	4" 45 BEND
352	511105.65	2190327.05	4" TEE
353	510897.38	2190363.98	6" 90 BEND
354	510896.17	2190366.20	6" 90 BEND
355	510916.26	2190441.90	6" TEE

#	NORTHING	EASTING	DESCRIPTION
356	511001.77	2190333.67	6" 45 BEND
357	511004.29	2190331.12	6" 45 BEND
358	511141.93	2190403.99	6" 45 BEND
359	511144.44	2190409.14	6" 45 BEND
362	511091.16	2190433.51	4" WYVE
363	511091.82	2190432.31	4" 22 1/2 BEND
364	511092.37	2190431.87	4" 22 1/2 BEND
365	511124.71	2190393.35	4" 45 BEND
366	511125.02	2190392.22	4" TEE
367	511128.70	2190393.22	4" 90 BEND
368	511098.13	2190478.09	8" VALVE
369	511096.11	2190476.99	8" TEE
370	511097.21	2190474.97	8" VALVE
371	511108.35	2190454.43	8" 90 BEND
372	511127.07	2190464.54	8" TEE
373	511128.78	2190461.37	8" 90 BEND
374	511131.11	2190462.64	8" VALVE
375	511130.81	2190466.56	8" 90 BEND
376	511166.85	2190482.03	6" 90 BEND
377	511157.81	2190481.15	6" 90 BEND
378	511161.79	2190483.30	6" 90 BEND
379	511161.15	2190492.54	8" TEE
380	511157.77	2190490.71	8" TEE
381	511154.33	2190488.85	8" 90 BEND
382	511162.39	2190493.21	10" X 8" RED.
383	511166.78	2190495.57	10" 90 BEND
384	511147.00	2190531.98	10" 45 BEND
385	511076.32	2190553.04	10" 45 BEND
386	511078.25	2190555.99	8" TEE
387	511079.64	2190556.74	8" TEE
388	511081.11	2190554.00	8" 90 BEND
389	511089.07	2190561.86	8" 45 BEND
390	511091.18	2190568.99	8" 45 BEND
391	511125.24	2190478.14	6" 90 BEND
392	511137.77	2190455.02	6" TIE
410	510854.98	2190565.25	WV
411	510768.57	2190528.10	90 BEND
412	510776.63	2190509.35	22 1/2 BEND
413	510777.85	2190418.21	11 1/4 BEND
414	510887.56	2189992.04	90 BEND
415	511054.94	2190035.12	6" X 6" TEE
416	511056.58	2190028.73	WV
417	511058.31	2190022.01	FH
418	511076.58	2190550.53	CHEM LINE
419	511121.72	2190537.08	CHEM LINE

DESIGN	NH	DRAWN	JRH	CHECKED	NH	APPROVED	NH
REVISIONS	NO.	DATE	BY	APPD	DESCRIPTIONS		

WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

SITE PIPING PLAN
SHEET 4

STATE OF TENNESSEE
 REGISTERED ENGINEER
 JAMES NEAL HARRIS
 No. 15889
 1/18/18

JOB NO.
N16003

ISSUE DATE
November 30, 2018

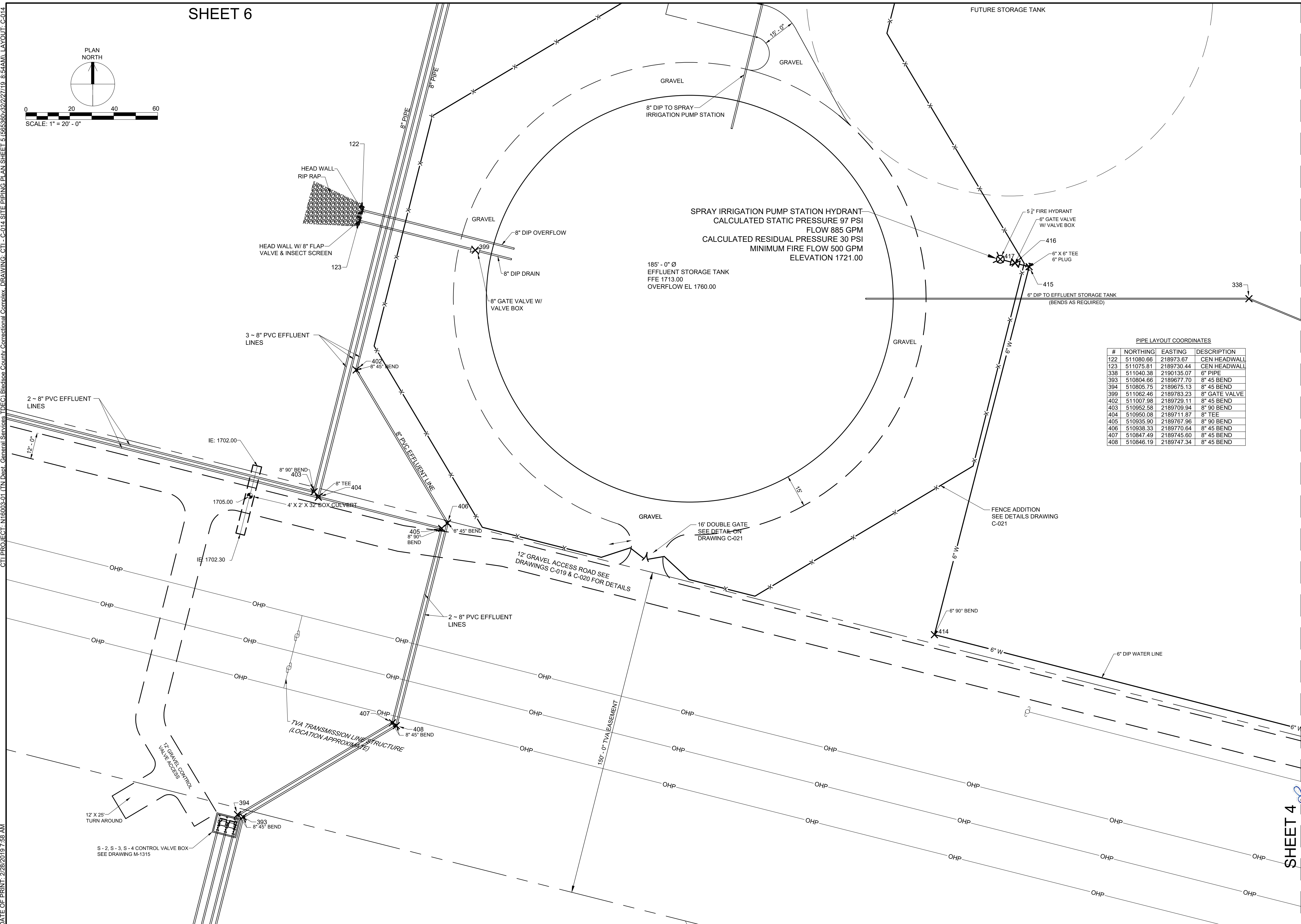
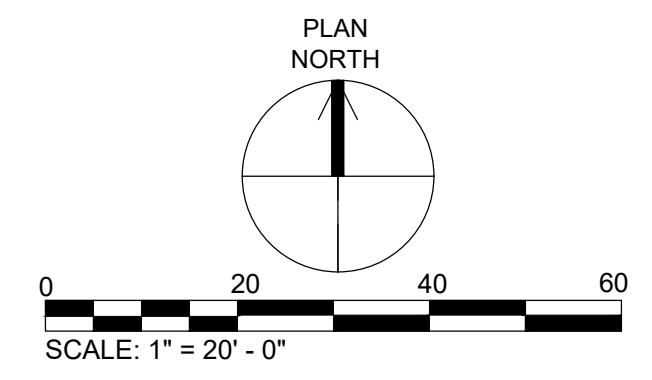
SCALE
1" = 20' - 0"

DRAWING NO.
C-013

NOTE:
 1. CONNECT TO AND EXTEND NON-POTABLE WATER, SEE DETAIL DRAWING C-023

DATE OF PRINT: 3/13/2019 8:25 AM

SHEET 5



SPRAY IRRIGATION PUMP STATION HYDRANT
 CALCULATED STATIC PRESSURE 97 PSI
 FLOW 885 GPM
 CALCULATED RESIDUAL PRESSURE 30 PSI
 MINIMUM FIRE FLOW 500 GPM
 ELEVATION 1721.00

185' - 0" Ø
 EFFLUENT STORAGE TANK
 FFE 1713.00
 OVERFLOW EL 1760.00

PIPE LAYOUT COORDINATES

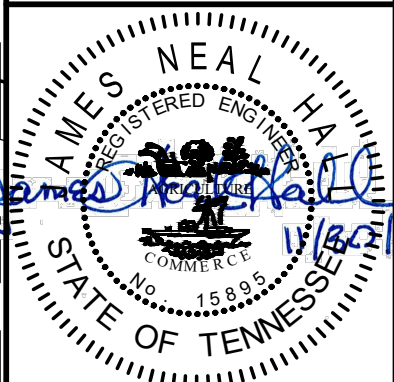
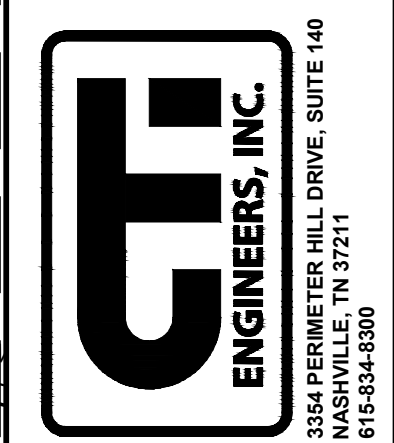
#	NORTHING	EASTING	DESCRIPTION
122	511080.66	218973.67	CEN HEADWALL
123	511075.81	2189730.44	CEN HEADWALL
338	511040.38	2190135.07	6" PIPE
393	510804.66	2189677.70	8" 45 BEND
394	510805.75	2189675.13	8" 45 BEND
399	511062.46	2189783.23	8" GATE VALVE
402	511007.98	2189729.11	8" 45 BEND
403	510952.58	2189709.94	8" 90 BEND
404	510950.08	2189711.87	8" TEE
405	510935.90	2189767.96	8" 90 BEND
406	510938.33	2189770.64	8" 45 BEND
407	510847.49	2189745.60	8" 45 BEND
408	510846.19	2189747.34	8" 45 BEND

REVISIONS

NO.	DATE	BY	APPD	DESCRIPTIONS

DESIGN	DRAWN	CHECKED	APPROVED
NH	JRH	NH	NH

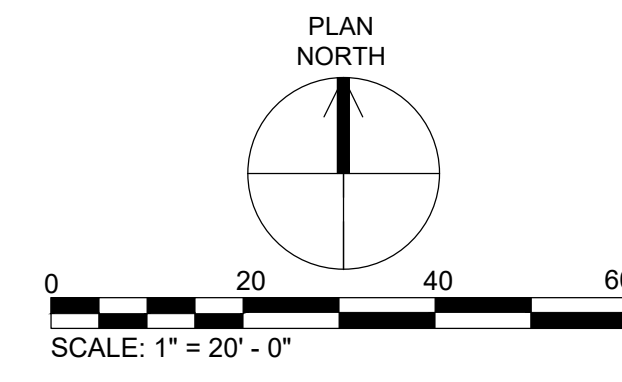
WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06
 SITE PIPING PLAN
 SHEET 5



JOB NO.
 N16003
 ISSUE DATE
 November 30, 2018
 SCALE
 1" = 20' - 0"
 DRAWING NO.
 C-014

CTI PROJECT: N16003-01 (TN Dept. General Services) TDEC Bledsoe County Correctional Complex DRAWING: CTI_C-014 SITE PIPING PLAN SHEET 5.666590922/27/19_8:54AM LAYOUT_C-014
 DATE OF PRINT: 2/28/2019 7:58 AM

SHEET 4

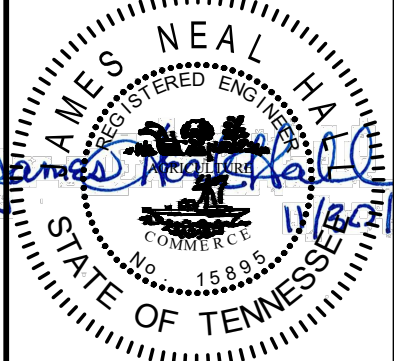
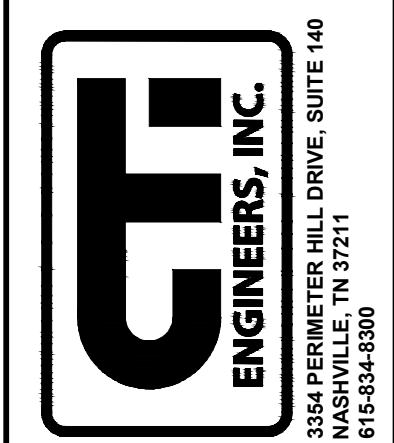


PIPE LAYOUT COORDINATES			
#	NORTHING	EASTING	DESCRIPTION
395	511216.12	2189779.16	8" 90 BEND
396	511221.59	2189777.96	8" TEE
397	511223.52	2189783.61	8" 45 BEND
398	511212.18	2189780.74	8" 45 BEND
399	511062.46	2189783.23	8" GATE VALVE
400	511225.47	2189784.10	8" 45 BEND
401	511210.09	2189780.21	8" 45 BEND
409	511181.74	2189915.55	8" 90 BEND

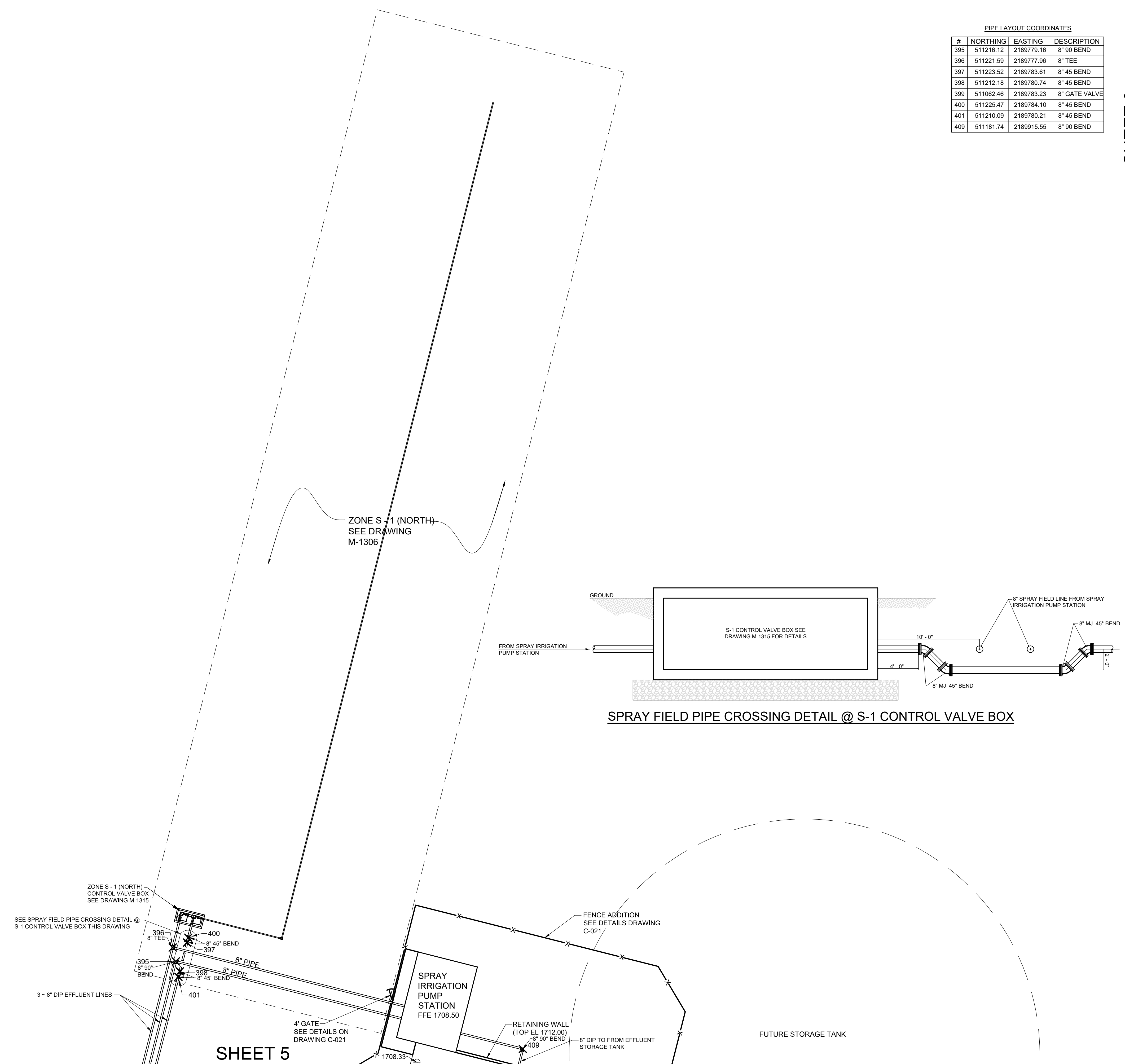
SHEET 3

REVISIONS		DESIGN	DATE	BY	APPD
NO.	DESCRIPTIONS	NH			
		DRAWN			
		CHECKED			
		APPROVED			

WASTEWATER TREATMENT PLANT EXPANSION
BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06
SITE PIPING PLAN
SHEET 6



JOB NO.
 N16003
 ISSUE DATE
 November 30, 2018
 SCALE
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 DRAWING NO.
 C-015

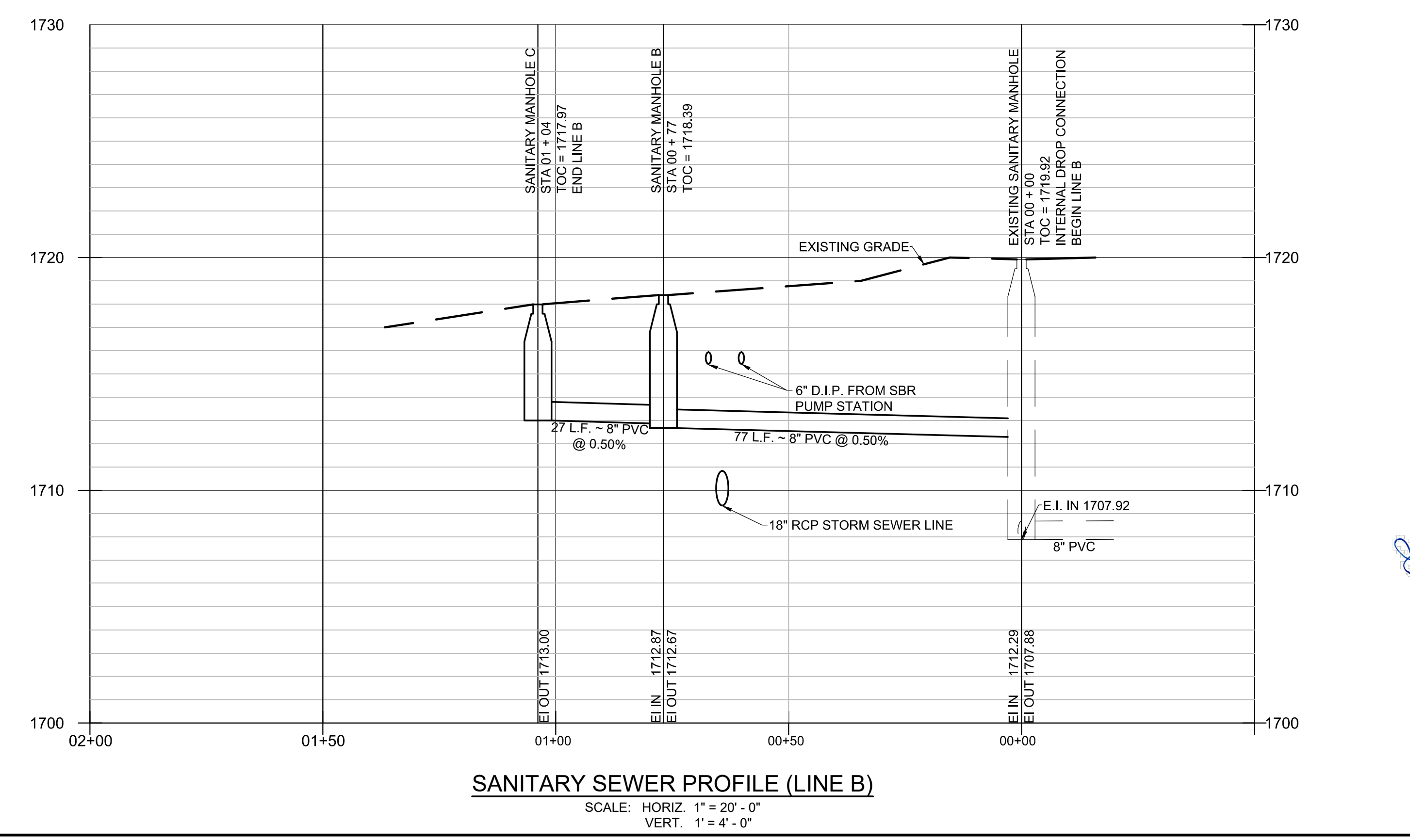
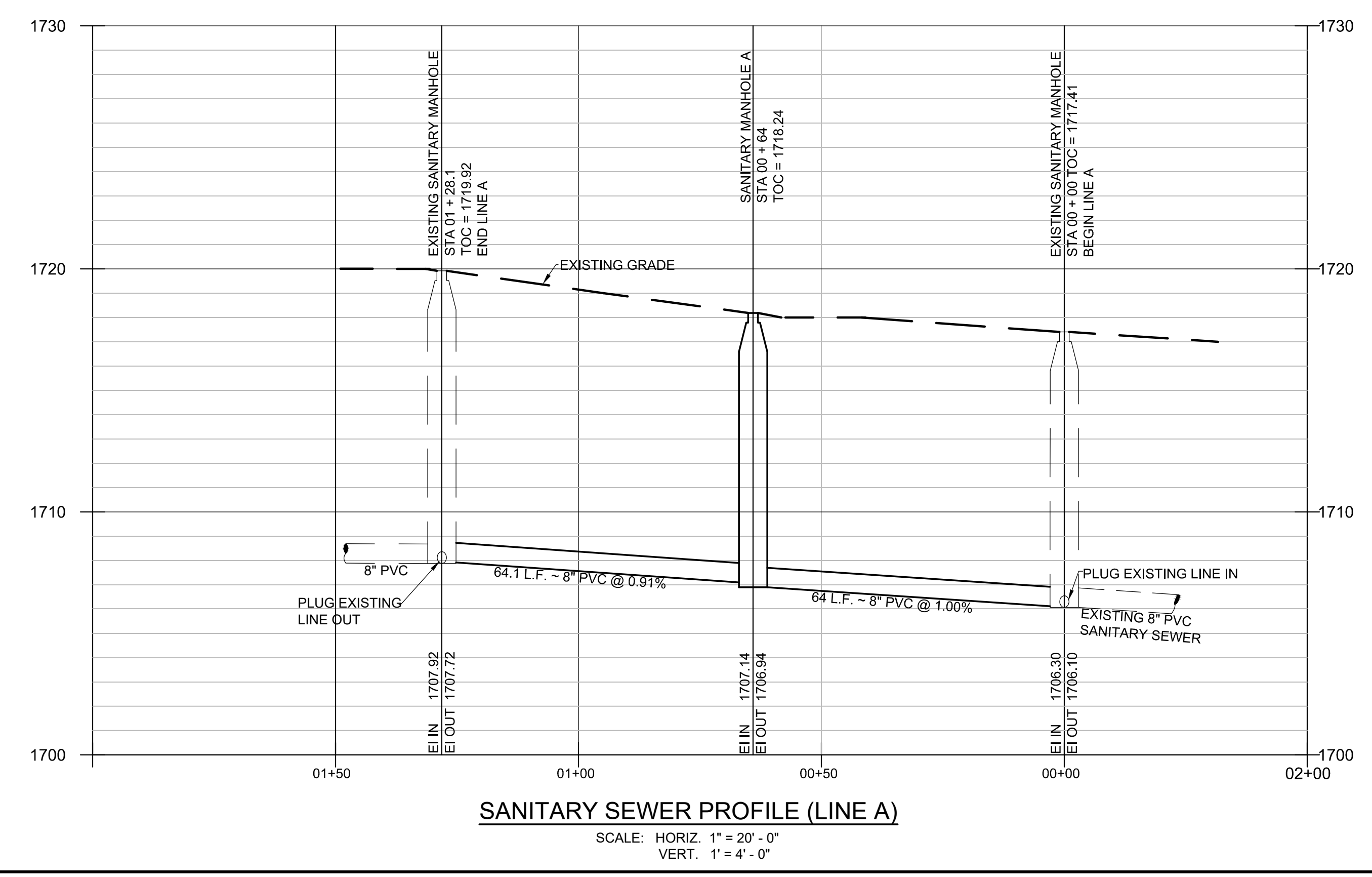
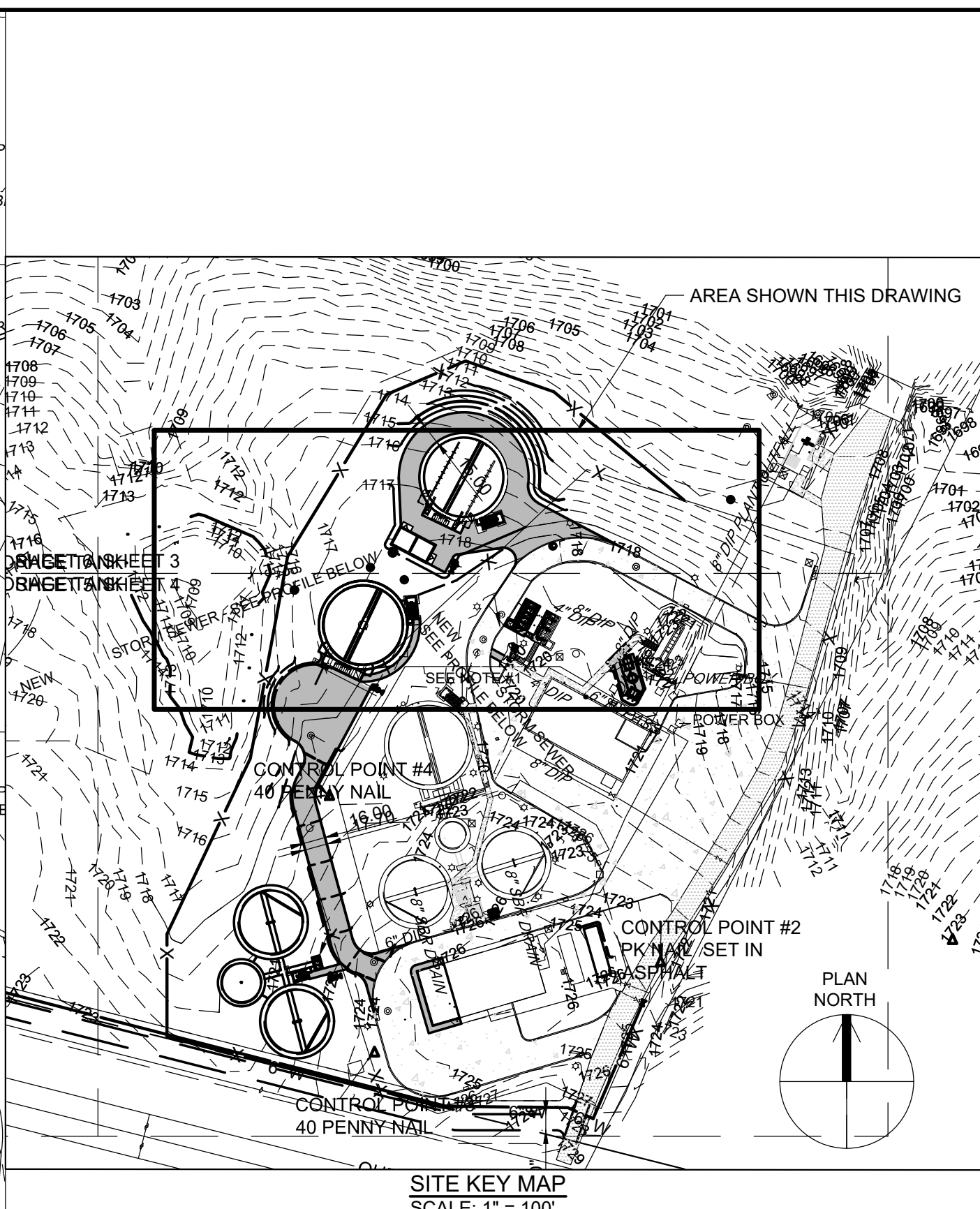
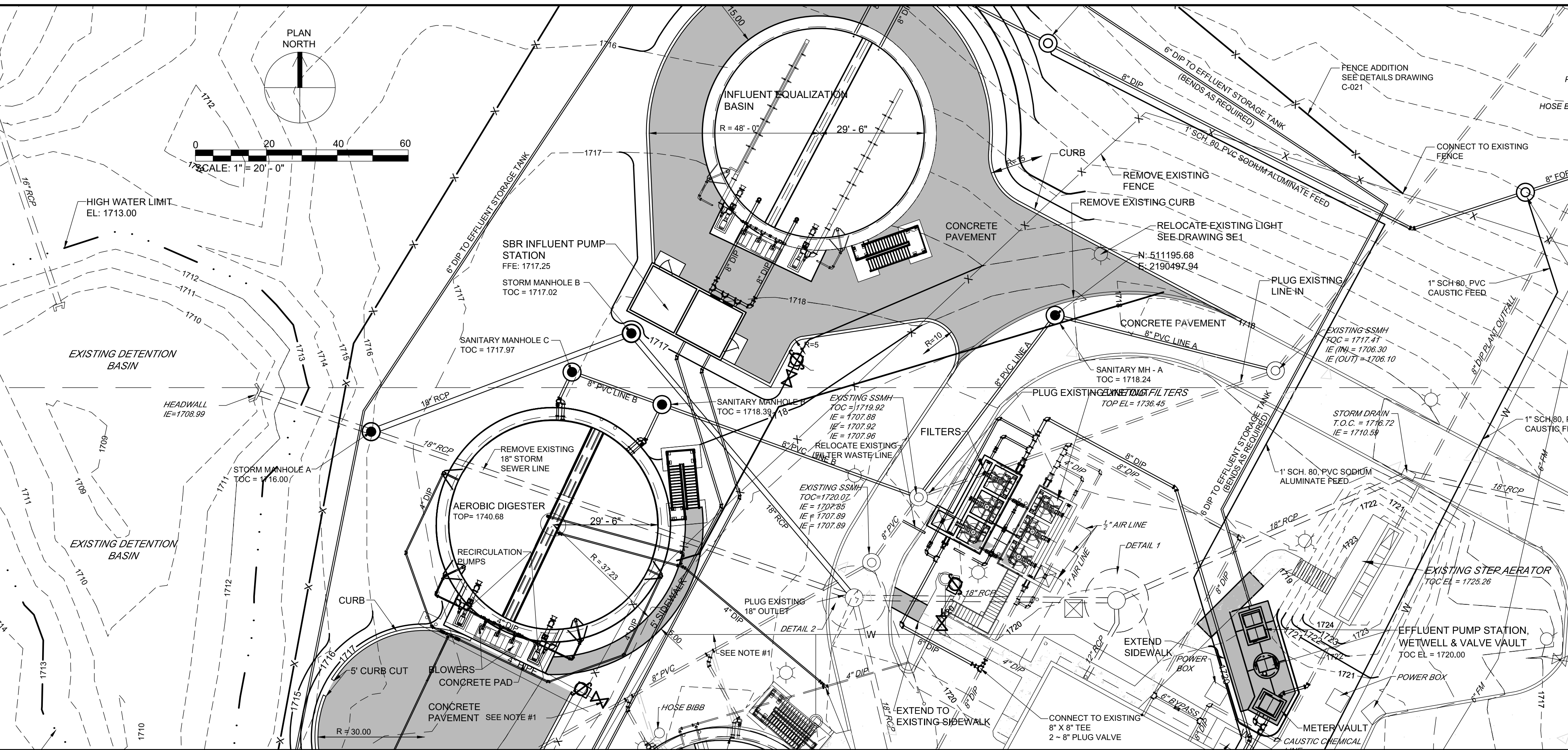


SPRAY FIELD PIPE CROSSING DETAIL @ S-1 CONTROL VALVE BOX

SHEET 5

CTI PROJECT: N16003-01 (TN Dept. General Services TDEC) Bledsoe County Correctional Complex, DRAWING: CTI - C-016 SANITARY SEWER LINE A & LINE B PLAN AND PROFILE (665363/26/21/19/19 1:52PM), LAYOUT: C-016

DATE OF PRINT: 3/14/2019 2:11 PM



NO.	DATE	BY	APPD

DESIGN: NH
 DRAWN: JRH
 CHECKED: NH
 APPROVED: NH

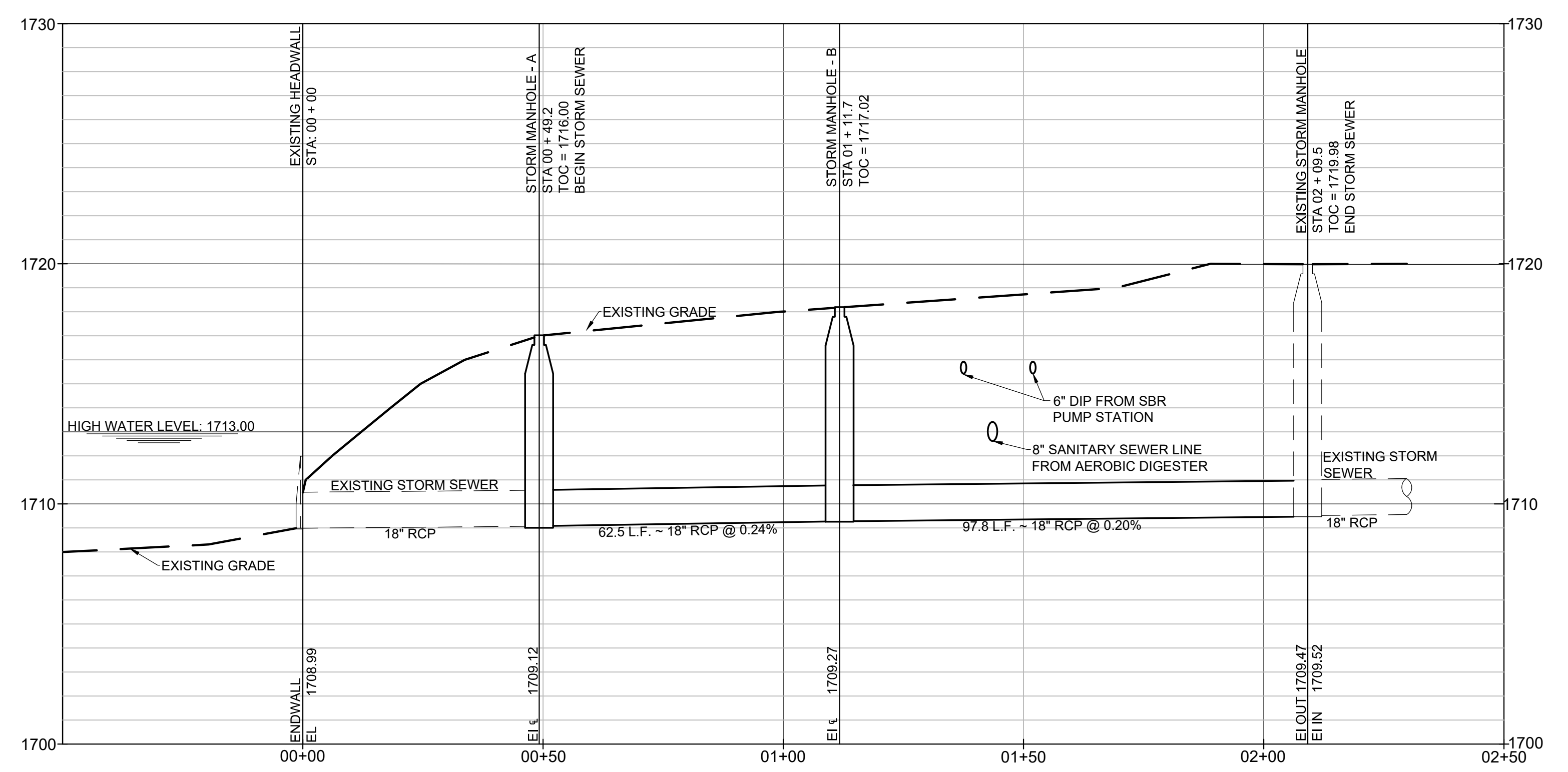
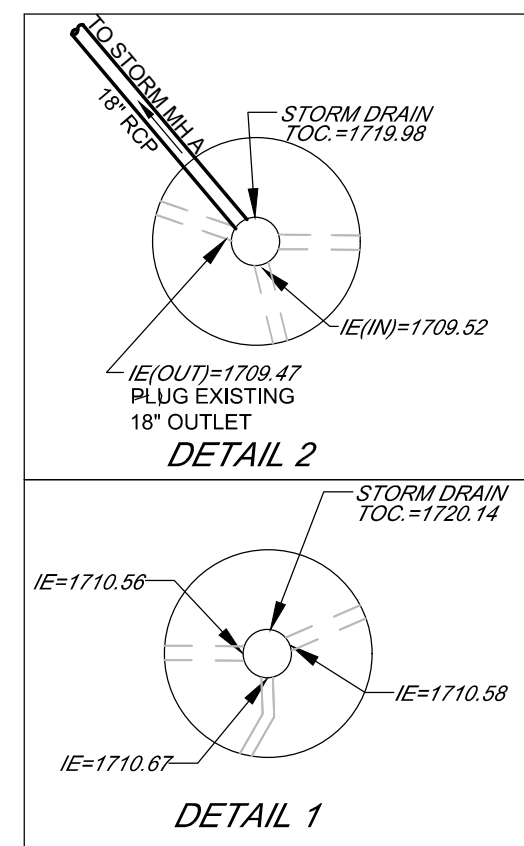
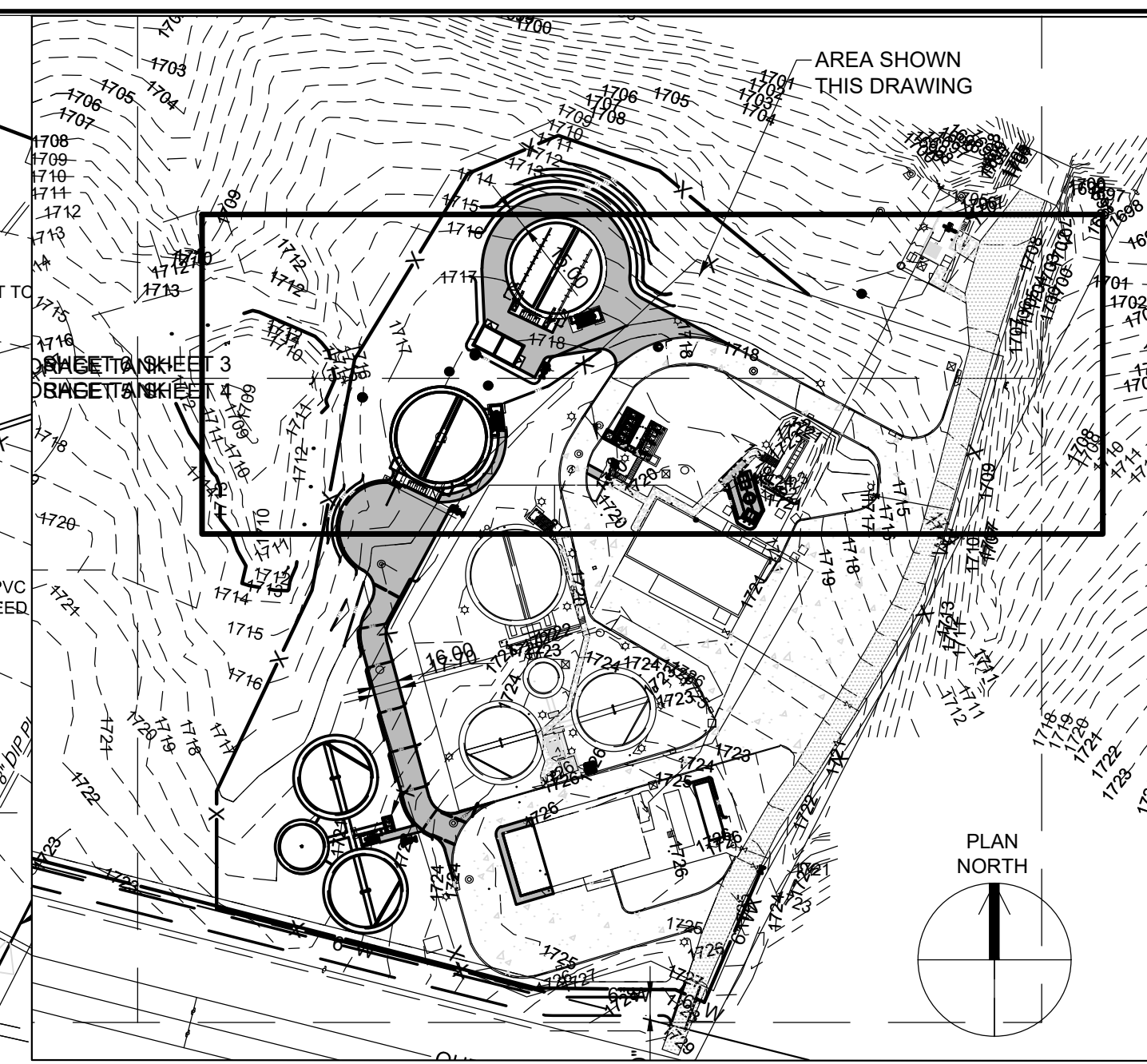
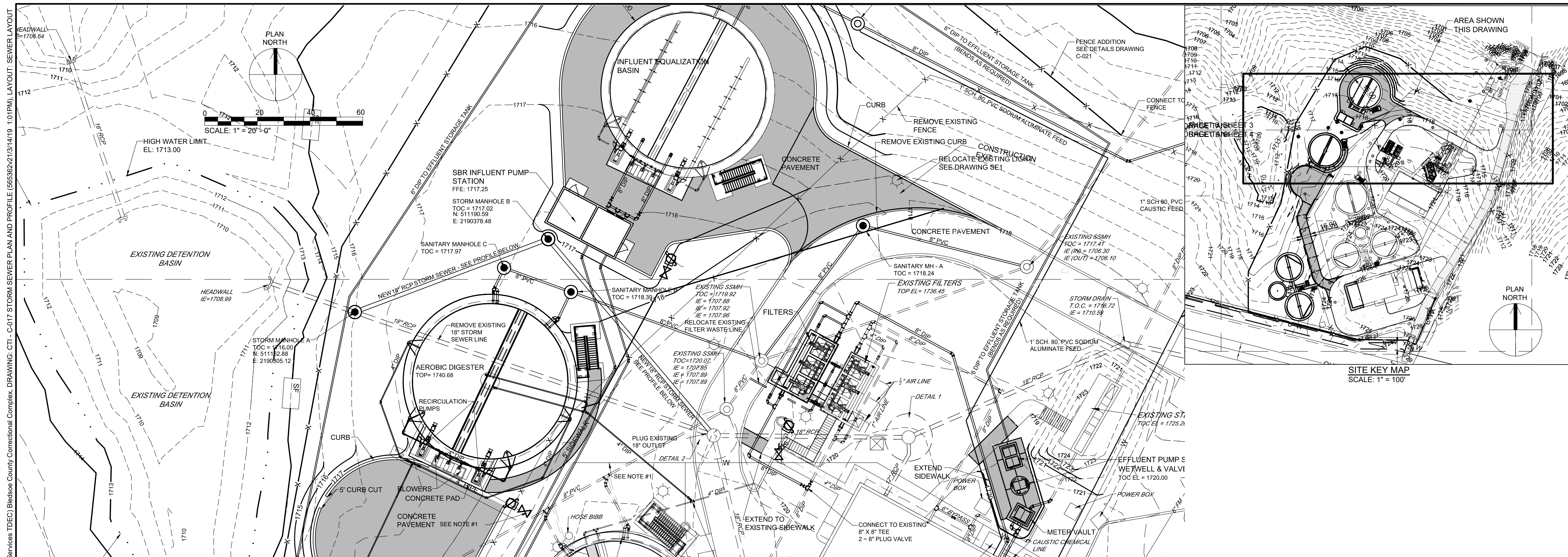
REVISIONS

WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SEC PROJECT 142/013-01-2013-06

ENGINEERS, INC.
 3354 PERMETER HILL DRIVE, SUITE 140
 NASHVILLE, TN 37211
 615-834-8900

STATE OF TENNESSEE
 REGISTERED ENGINEER
 JAMES NEAL HARRIS
 No. 15889

JOB NO. N16003-01
 ISSUE DATE November 30, 2018
 SCALE AS NOTED
 DRAWING NO. C-016



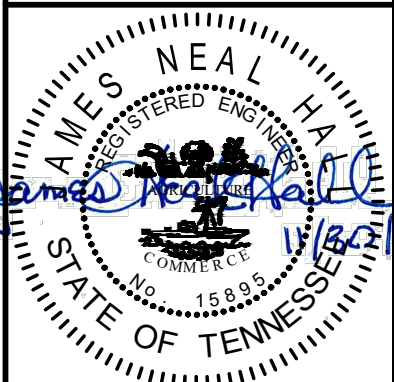
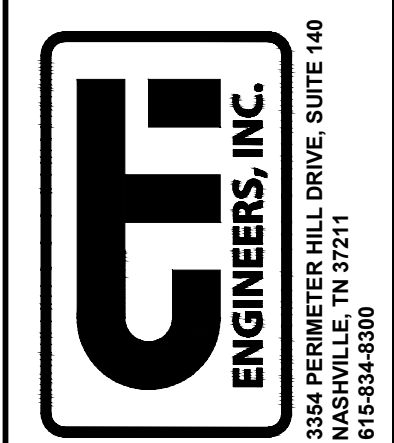
STORM SEWER PROFILE
 SCALE: HORIZ. 1" = 20' - 0"
 VERT. 1" = 4' - 0"

REVISIONS		DATE	BY	APPD
NO.	DESCRIPTIONS			

DESIGN	DRAWN	CHECKED	APPROVED
NH	JRH	NH	NH

WASTEWATER TREATMENT PLANT EXPANSION
BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

STORM SEWER PLAN AND PROFILE



JOB NO.
N16003-01

ISSUE DATE
November 30, 2018

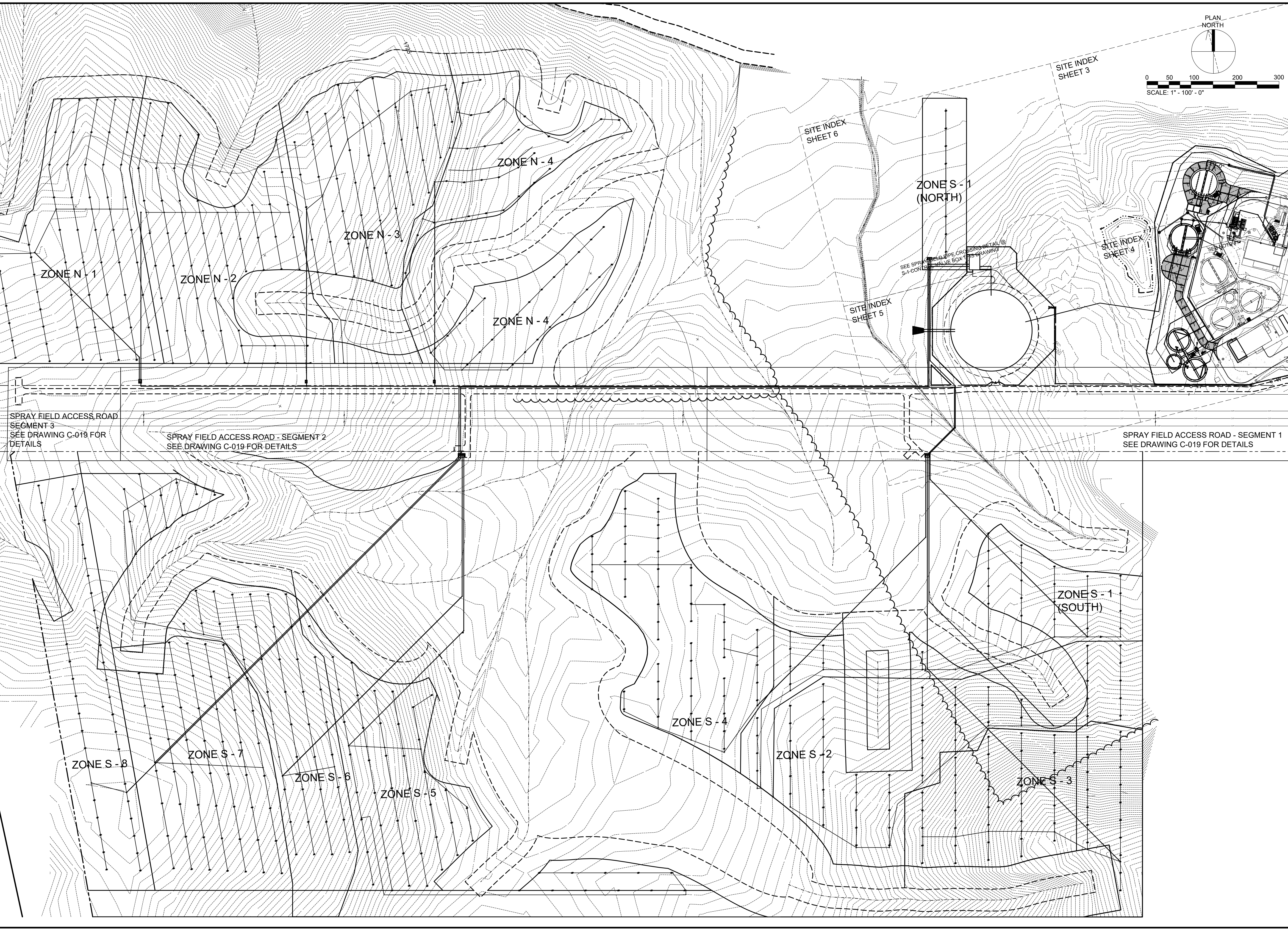
SCALE
AS NOTED

DRAWING NO.
C-017

CTI PROJECT: N16003-01 (TN Dept. General Services TDEC) Bledsoe County Correctional Complex, DRAWING: CTI - C-017 STORM SEWER PLAN AND PROFILE (565362x213/14/19 1:01PM), LAYOUT: SEWER LAYOUT
 DATE OF PRINT: 3/14/2019 2:15 PM

CTI PROJECT: N16003-01_DRAWING: N16003-01 CTI - C-018 SPRAY FIELD ACCESS INDEX SHEET (675542412/14/19 2:22PM) LAYOUT_LAYOUT

DATE OF PRINT: 3/14/2019 2:26 PM



SPRAY FIELD ACCESS ROAD
SEGMENT 3
SEE DRAWING C-019 FOR
DETAILS

SPRAY FIELD ACCESS ROAD - SEGMENT 2
SEE DRAWING C-019 FOR DETAILS

SPRAY FIELD ACCESS ROAD - SEGMENT 1
SEE DRAWING C-019 FOR DETAILS

DESIGNED		PCC	DESIGNED	PCC
DRAWN		JRH	DRAWN	JRH
CHECKED		NH	CHECKED	NH
APPROVED		PCC	APPROVED	PCC
NO.	DATE	BY	APPD	
REVISIONS				
DESCRIPTIONS				

WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SEC PROJECT 142/013-01-2013-06

GF
ENGINEERS, INC.
 220 MARKET AVE SOUTH, SUITE 750
 CANTON, OH 44702
 330-465-7733

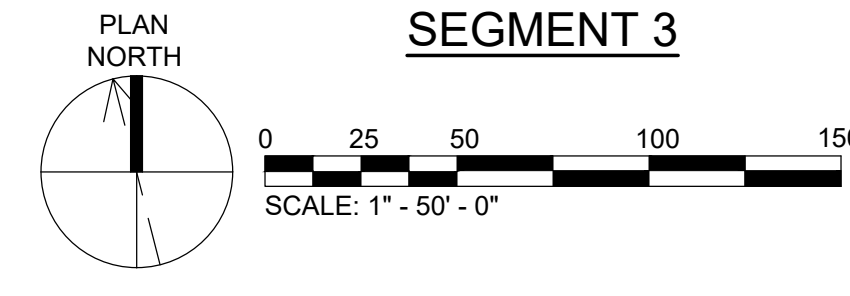
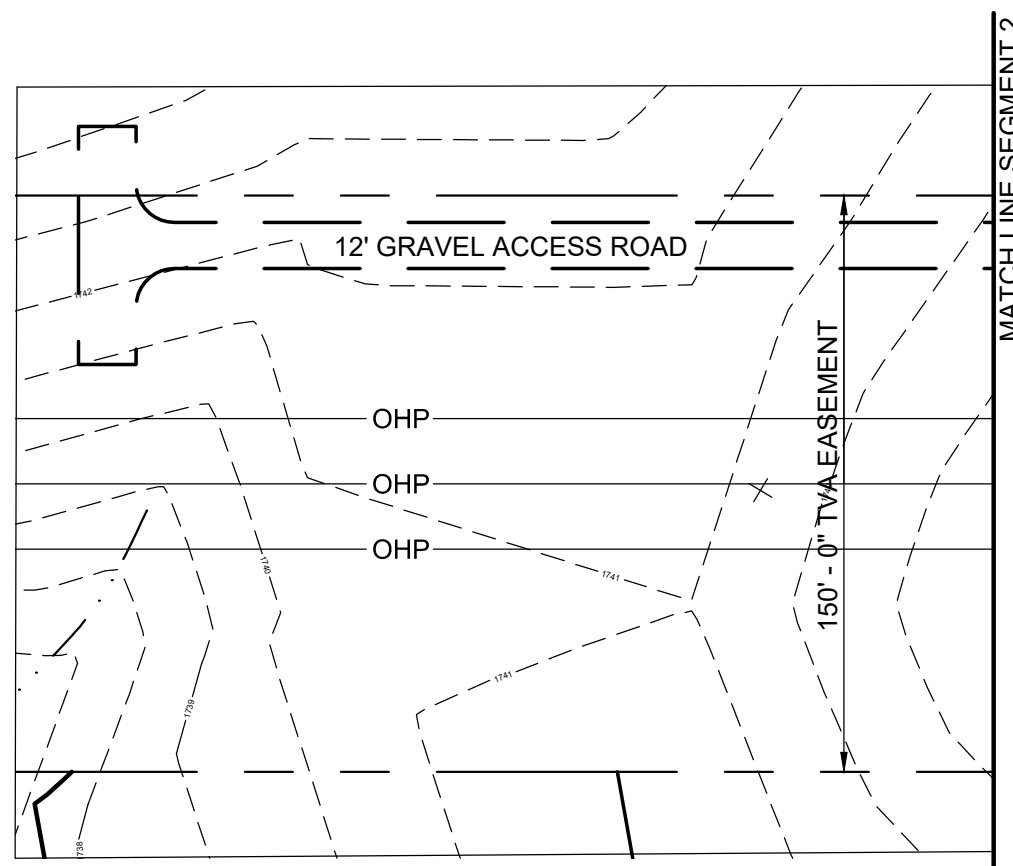
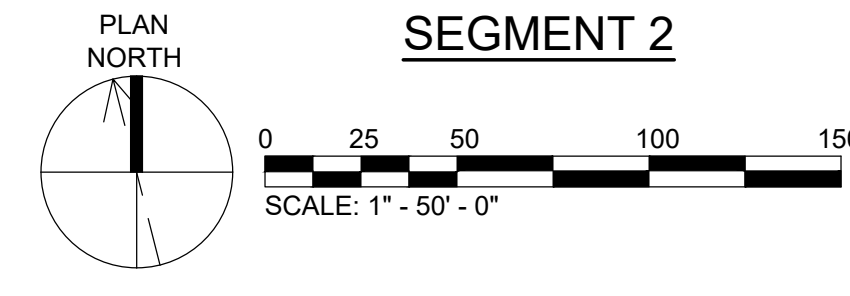
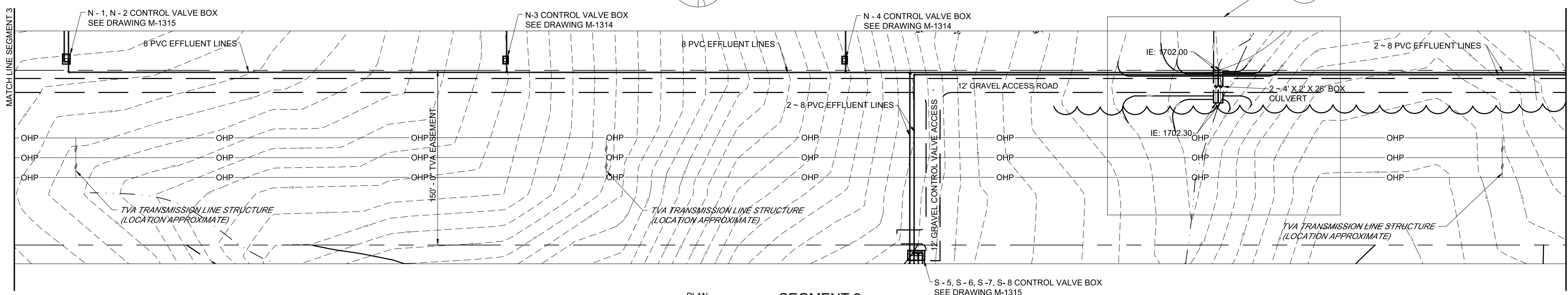
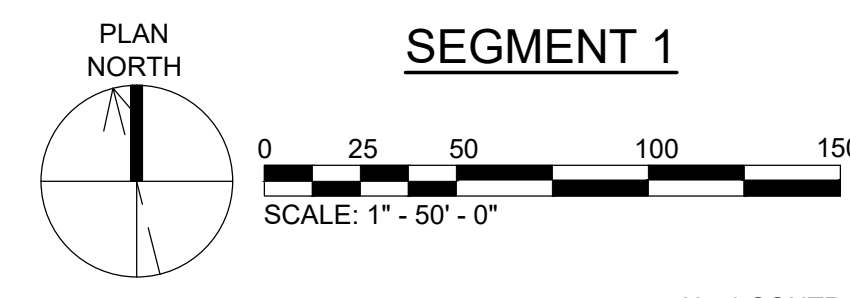
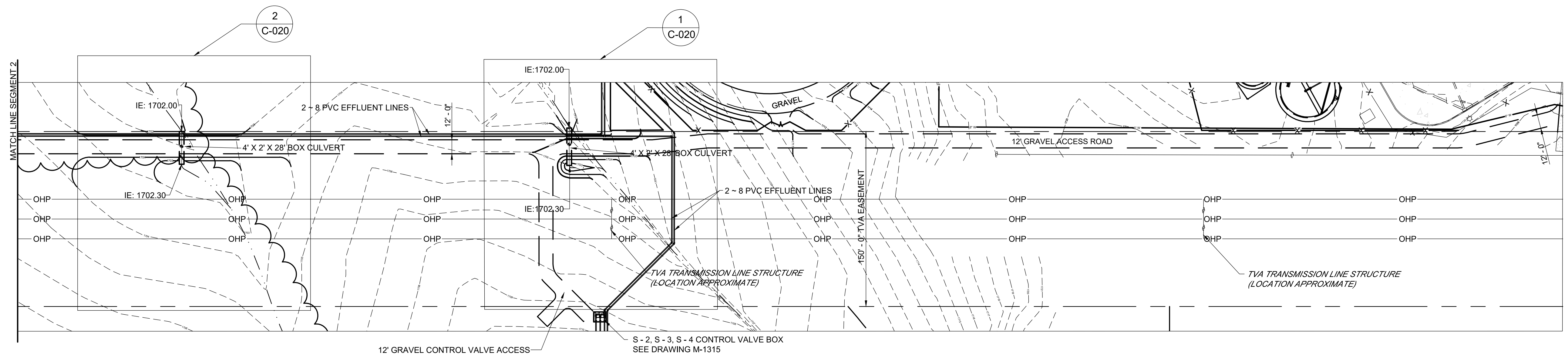
PAUL C. CATE
 REGISTERED ENGINEER
 STATE OF TENNESSEE
 NO. 11660

JOB NO.
 N16003

ISSUE DATE
 November 30, 2018

SCALE
 1" = 100' - 0"

DRAWING NO.
 C-018



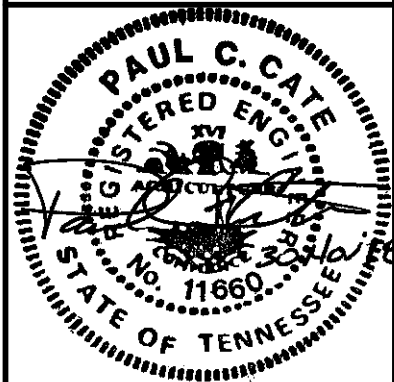
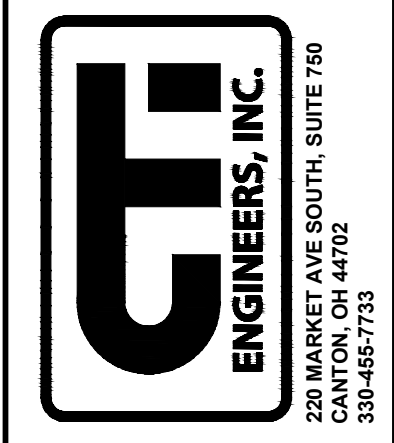
- NOTES:
1. THE LOCATION OF THE TVA TRANSMISSION LINE STRUCTURES WAS NOT SURVEYED AND THE LOCATIONS SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL REVISE GRADING AND PIPE INSTALLATION AS NECESSARY TO COMPLY WITH THE FOLLOWING REQUIREMENT.
 2. PVC LINE CROSSINGS SHALL BE 50 FEET, MINIMUM, FROM ANY STRUCTURE.
 3. NO SOIL DISTURBANCE WITHIN 25 FEET, MINIMUM, FROM ANY STRUCTURE.

REVISIONS		DATE	BY	APPD
NO.	DESCRIPTIONS			

DESIGNED	PCC
DRAWN	JRH
CHECKED	NH
APPROVED	PCC

WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SEC PROJECT 142/013-01-2013-06

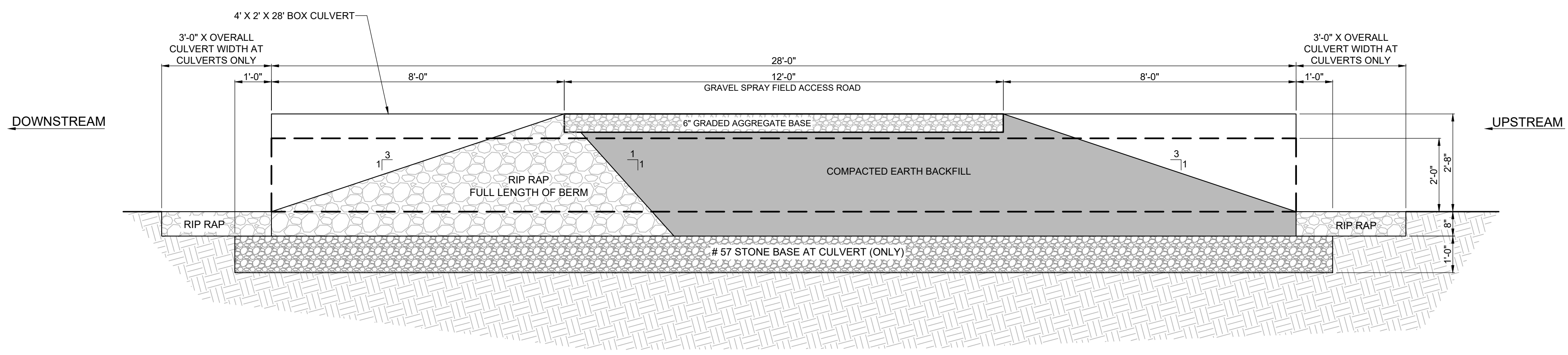
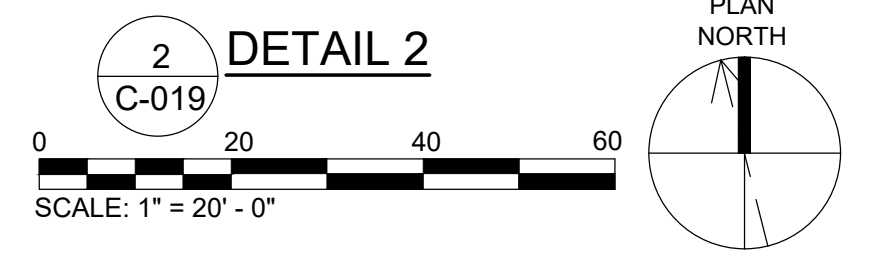
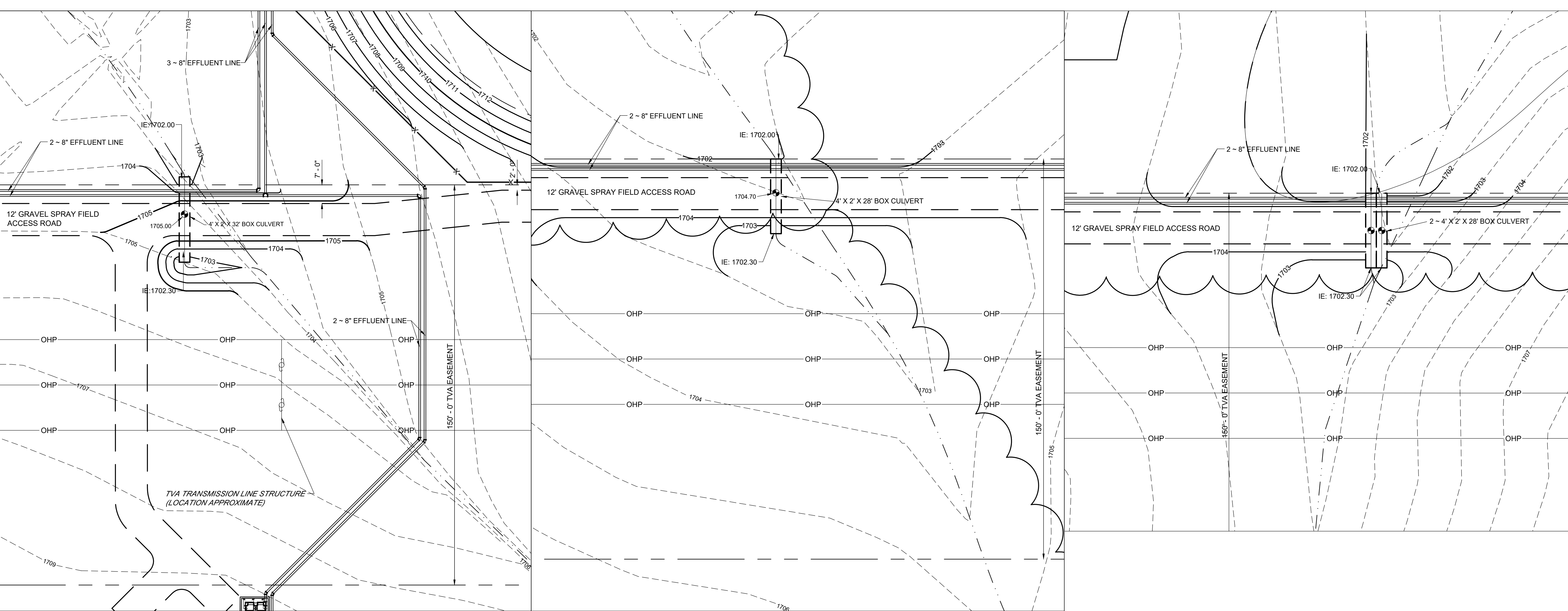
SPRAY FIELD ACCESS ROAD



JOB NO.	N16003
ISSUE DATE	November 30, 2018
SCALE	1" = 50' - 0"
DRAWING NO.	C-019

CTI PROJECT: N16003-01 DRAWING: N16003-01 CTI - C-020 SPRAY FIELD ACCESS DETAIL (568906/24/3/14/19 2:29PM) LAYOUT: C-020

DATE OF PRINT: 3/14/2019 2:33 PM



TYPICAL ACCESS ROAD CROSS-SECTION
SCALE: 1/2" = 1'-0"

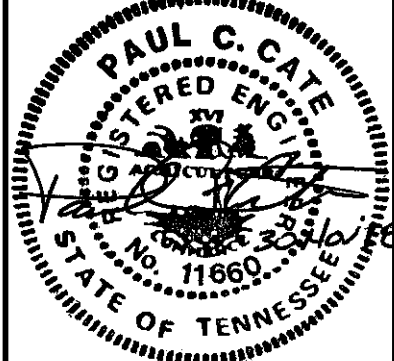
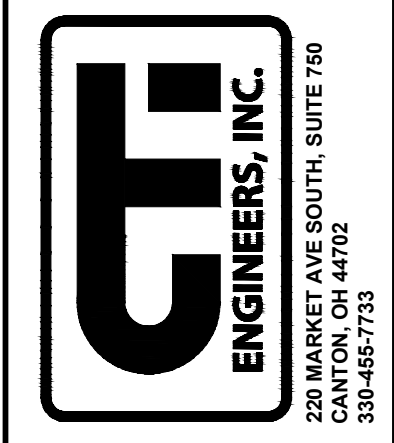
- NOTES:
1. THE LOCATION OF THE TVA TRANSMISSION LINE STRUCTURES WAS NOT SURVEYED AND THE LOCATIONS SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL REVISE GRADING AND PIPE INSTALLATION AS NECESSARY TO COMPLY WITH THE FOLLOWING REQUIREMENT:
 2. PVC LINE CROSSINGS SHALL BE 50 FEET, MINIMUM, FROM ANY STRUCTURE.
 3. NO SOIL DISTURBANCE WITHIN 25 FEET, MINIMUM, FROM ANY STRUCTURE.

NO.	REVISIONS	DATE	BY	APPD

DESIGNED: PC
DRAWN: JRH
CHECKED: NH
APPROVED: PC

WASTEWATER TREATMENT PLANT EXPANSION
BLEDSOE COUNTY CORRECTIONAL COMPLEX
PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

**SPRAY FIELD ACCESS ROAD
CROSS DRAIN DETAILS**

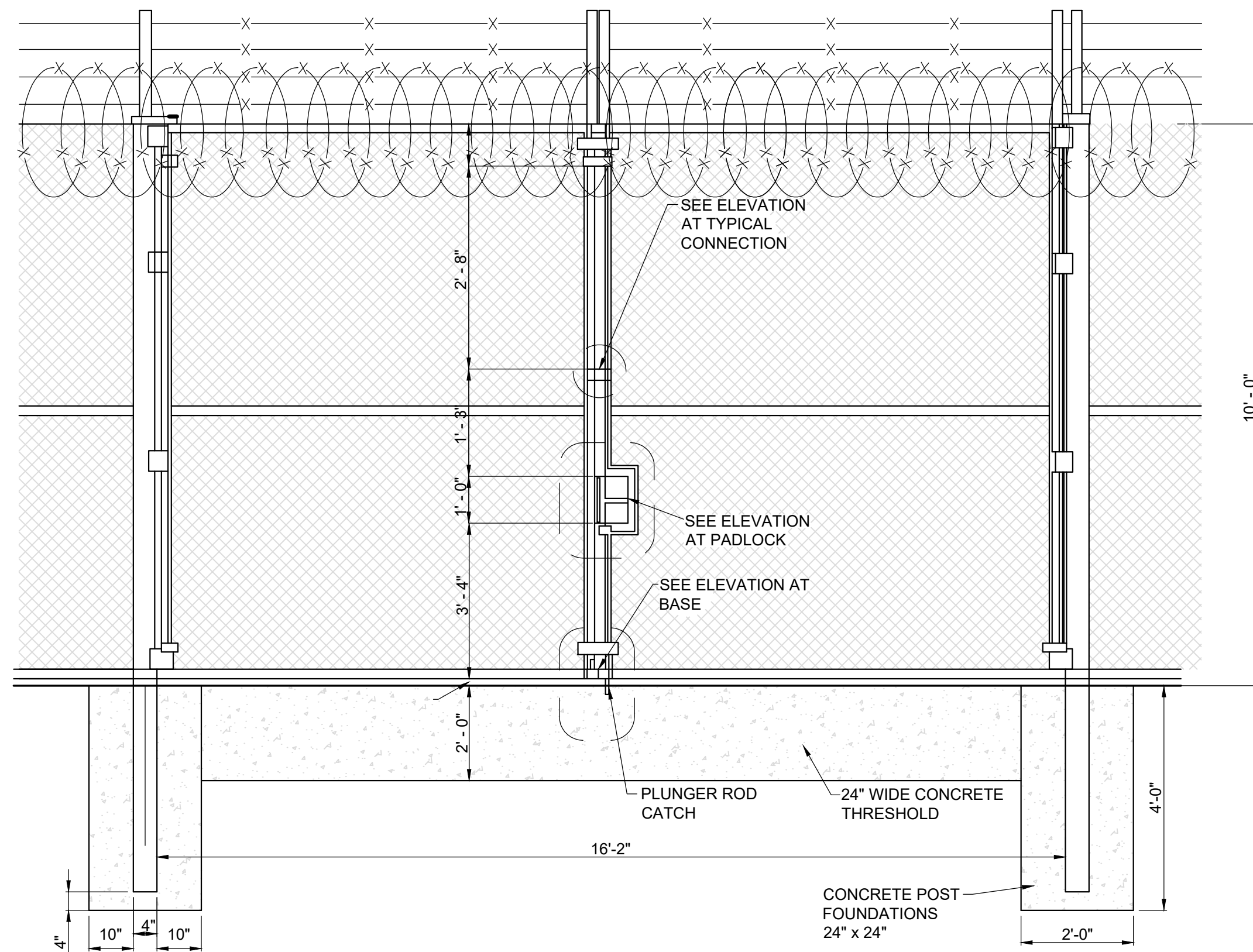


JOB NO.
N16003

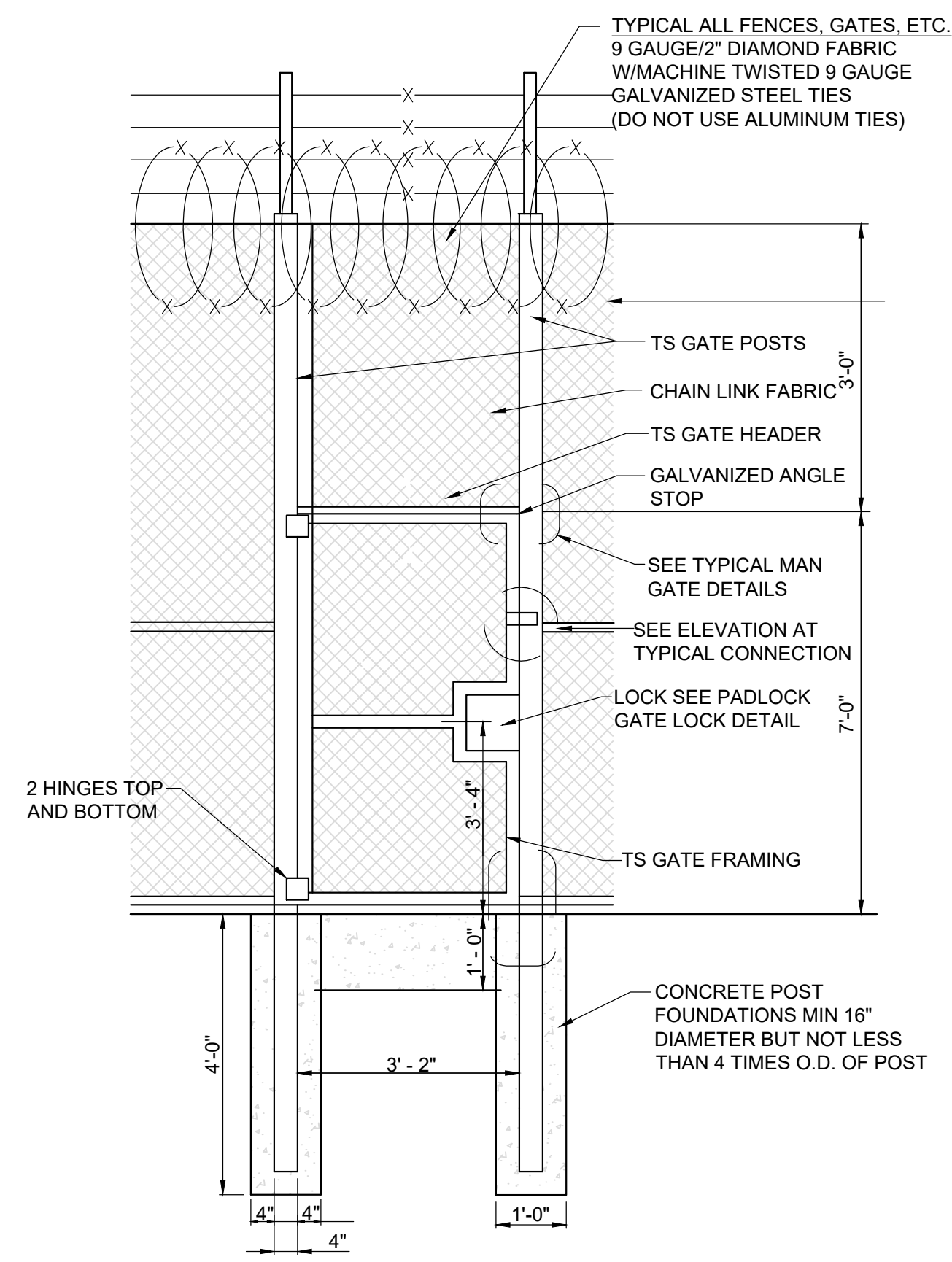
ISSUE DATE
November 30, 2018

SCALE
AS NOTED

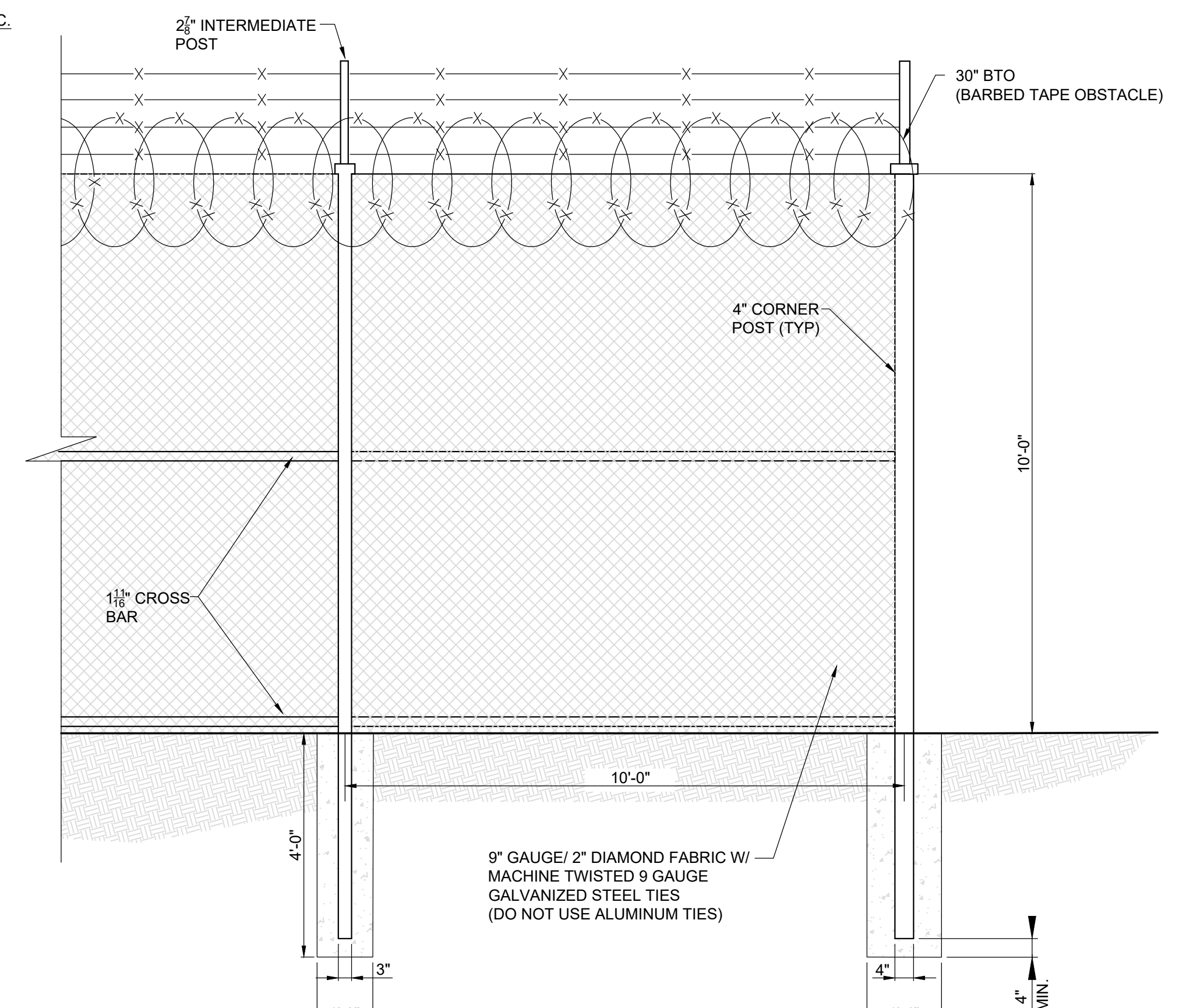
DRAWING NO.
C-020



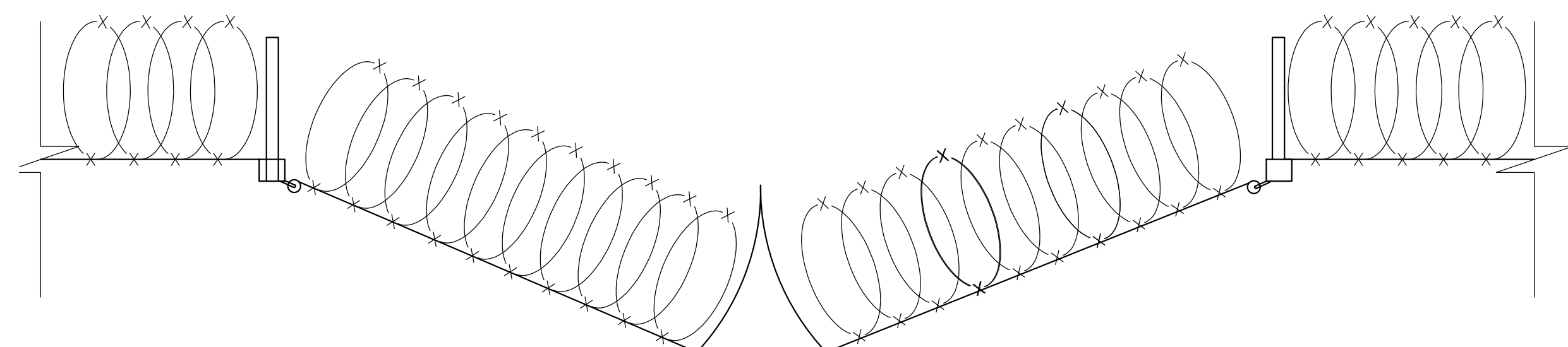
ELEVATION DOUBLE GATE DETAIL
NTS



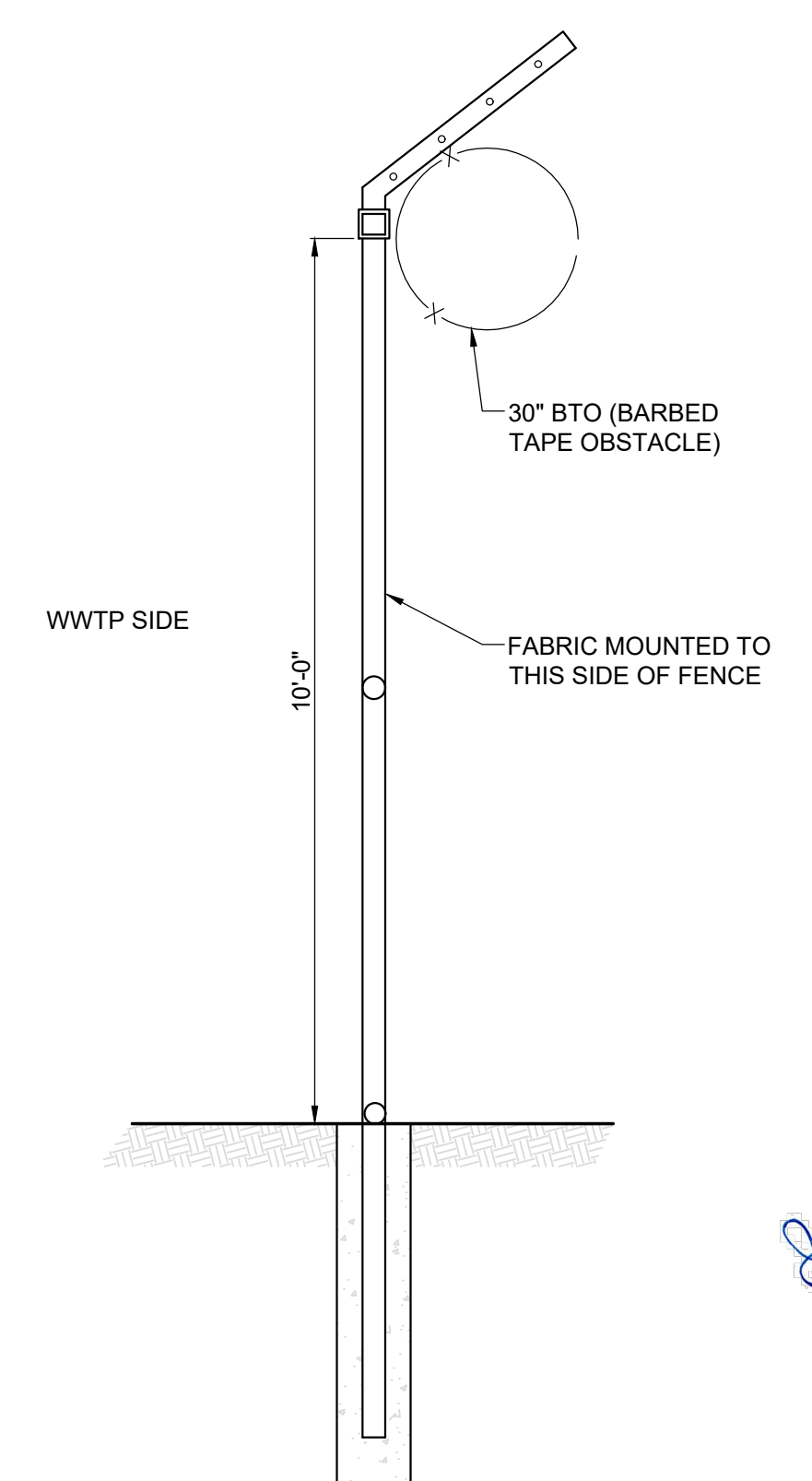
ELEVATION SINGLE GATE DETAIL
NTS



TYPICAL FENCE
NTS



PLAN VEHICULAR GATE
NTS

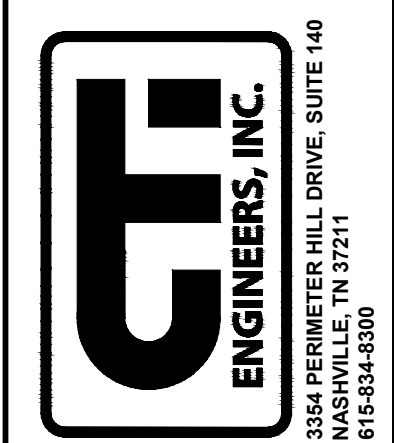


TYPICAL PERIMETER FENCE CONFIGURATION
NTS

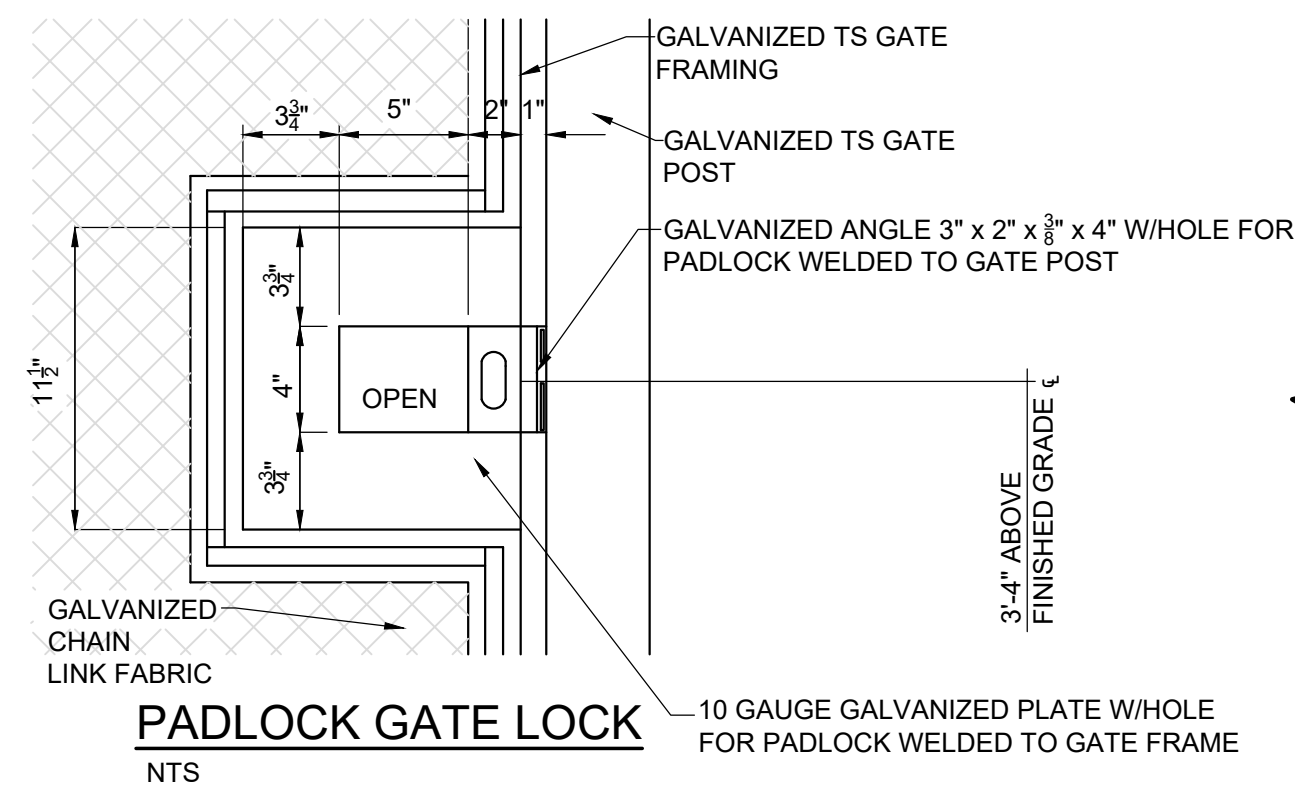
REVISIONS		DATE	BY	APPD
NO.	DESCRIPTIONS			

DESIGN	DRAWN	CHECKED	APPROVED
NH	JRH	NH	NH

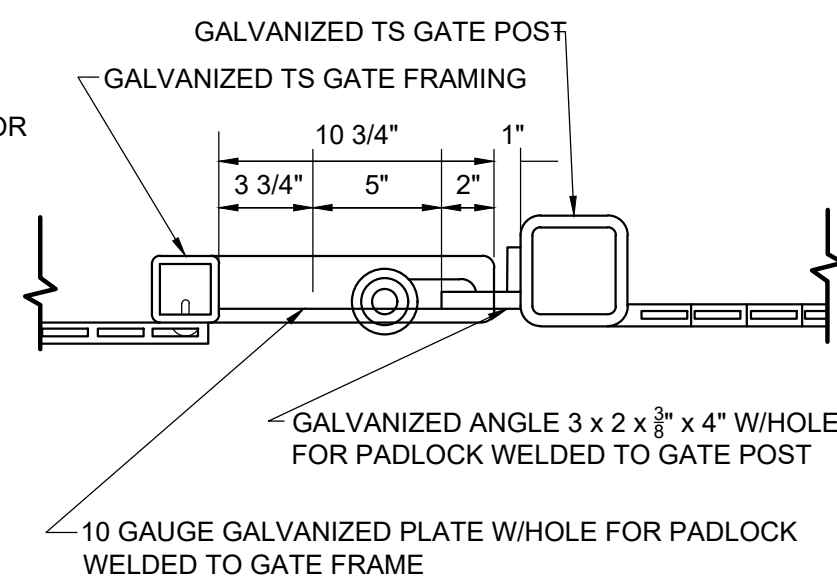
WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06
GENERAL DETAILS
SHEET 1



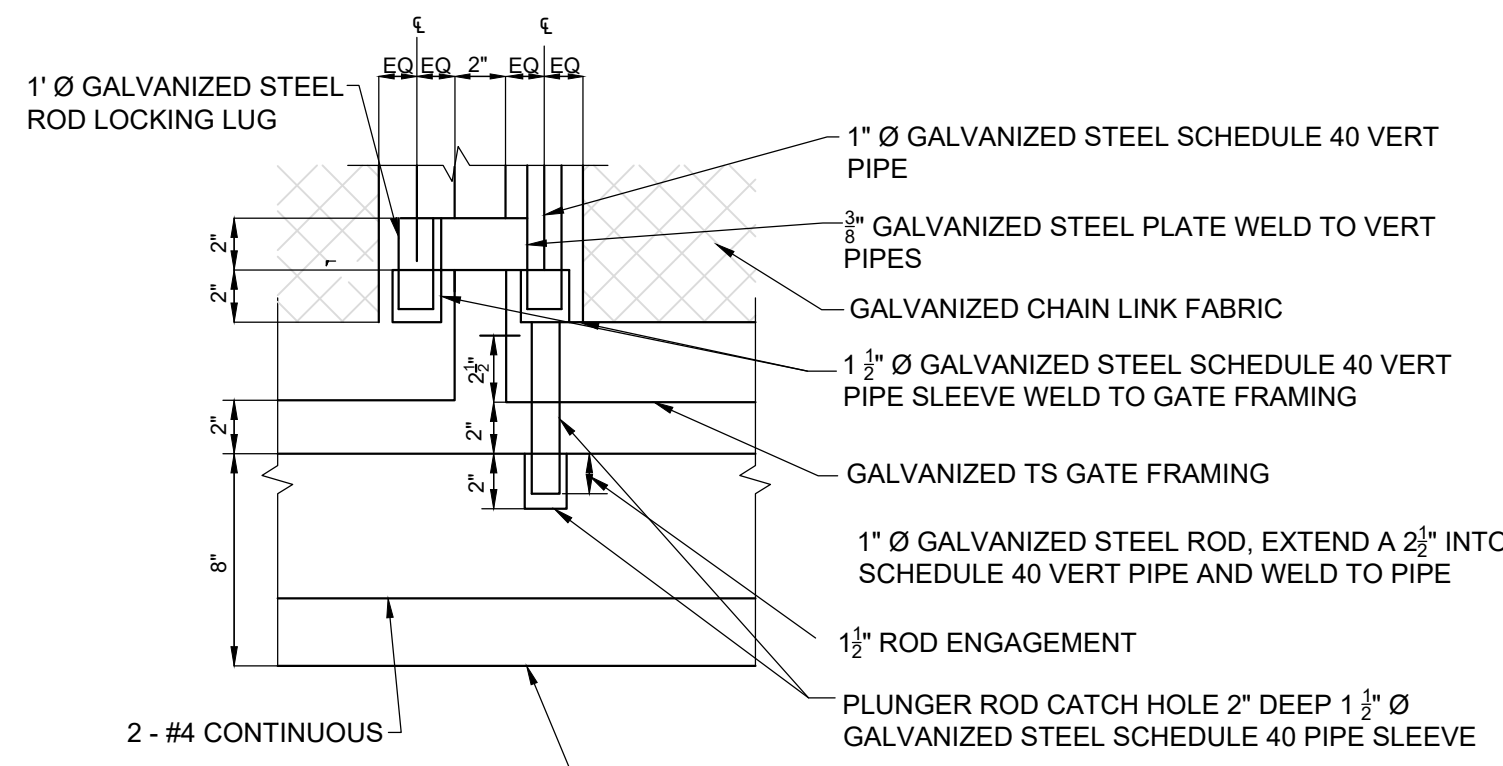
JOB NO.
N16003
 ISSUE DATE
November 30, 2018
 SCALE
NTS
 DRAWING NO.
C-021



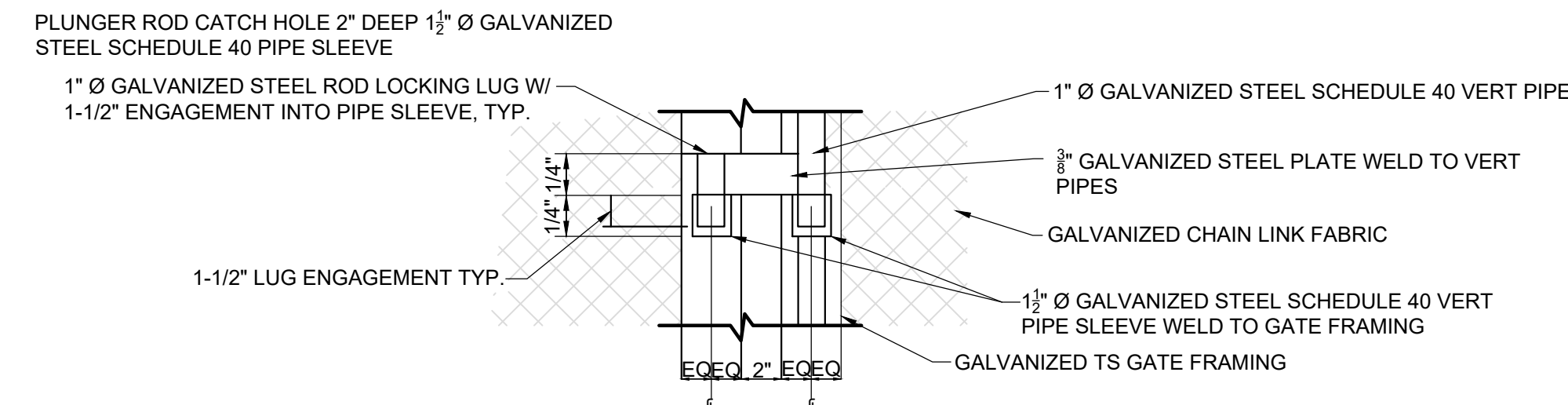
PADLOCK GATE LOCK
NTS



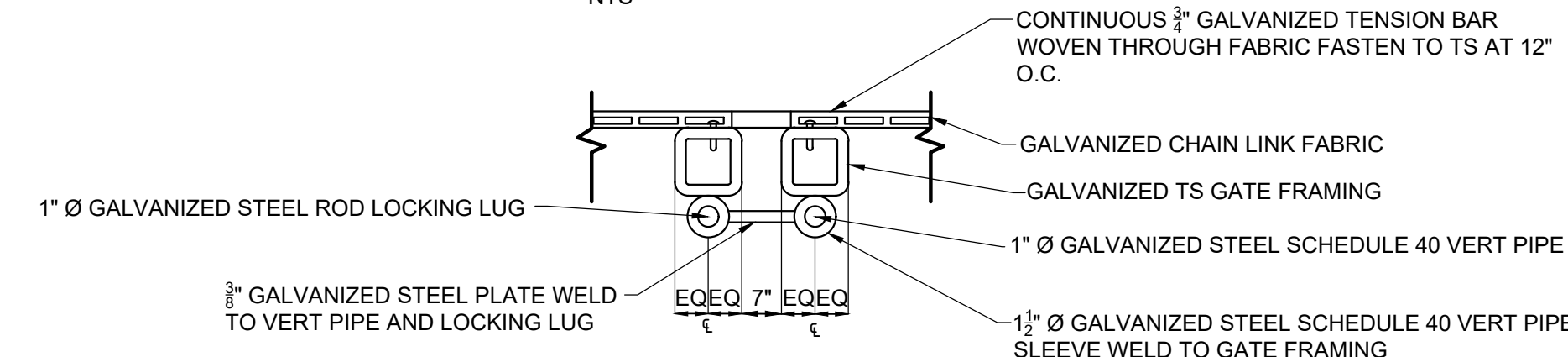
SECTION
NTS



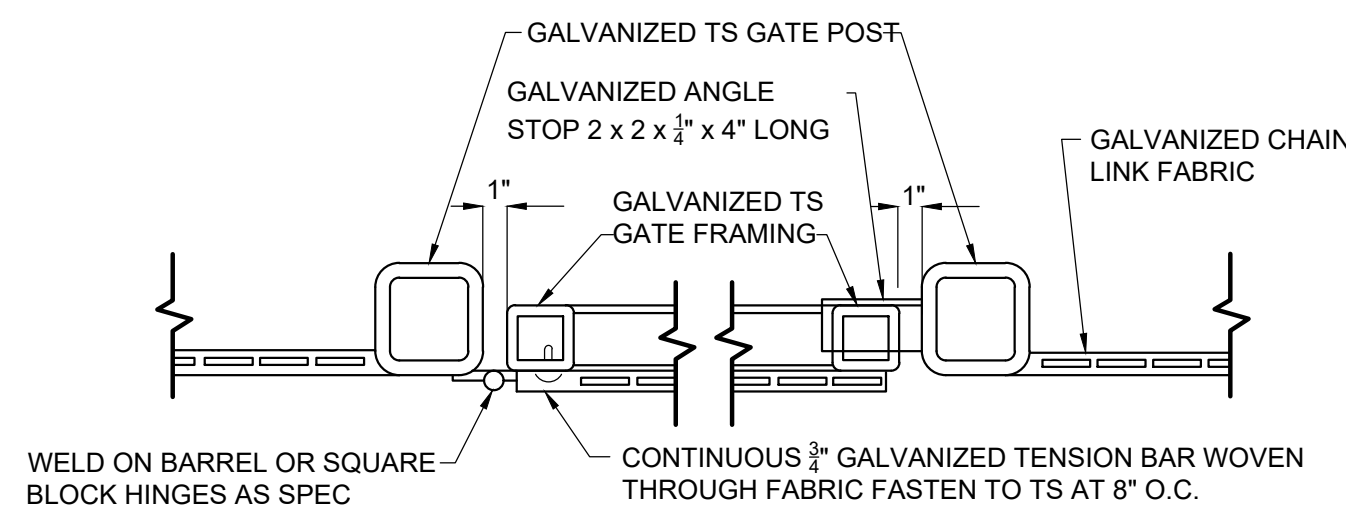
ELEVATION AT BASE
NTS



ELEVATION AT TYP CONNECTION
NTS



PLAN AT TYP CONNECTION
NTS



JAMB AT HINGE

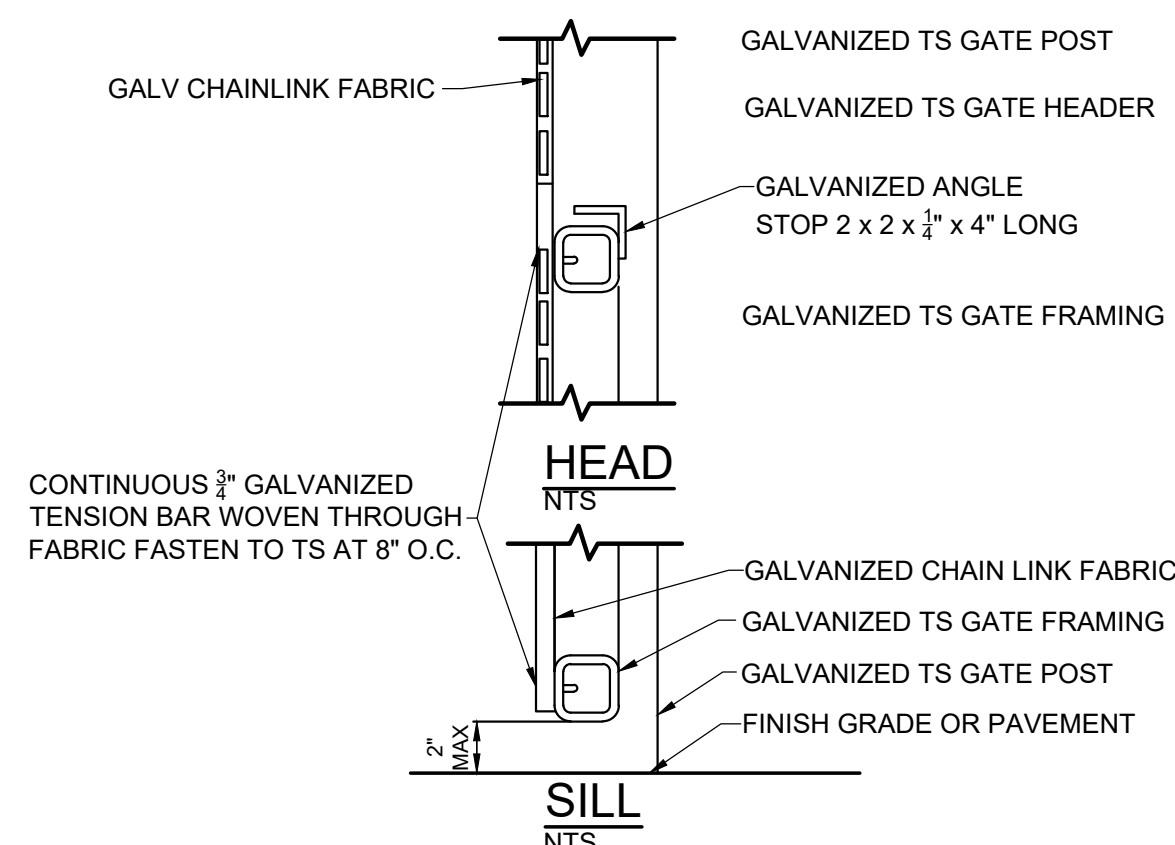
JAMB AT STRIKE

- WELD ON BARREL OR SQUARE BLOCK HINGES AS SPEC
- CONTINUOUS 3/8\"/>

PROVIDE ONE OF THE FOLLOWING FASTENERS FOR ATTACHING TENSION BAR TO TUBE STEEL:

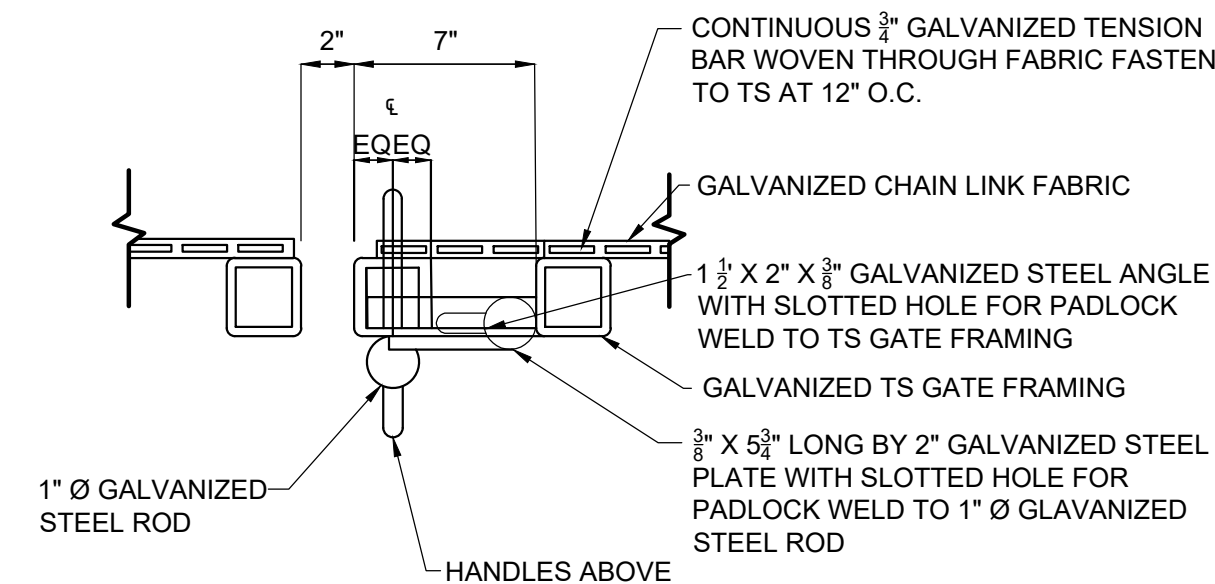
 - 0.145 INCH SHANK DIA POWDER ACTUATED FASTENERS WITH PRE-INSTALLED WASHER EQUIVALENT TO HILTY X-OR FASTENER.
 - 1/4\"/>
 - 1\"/>

TYPICAL FENCE MAN GATE DETAILS
NTS

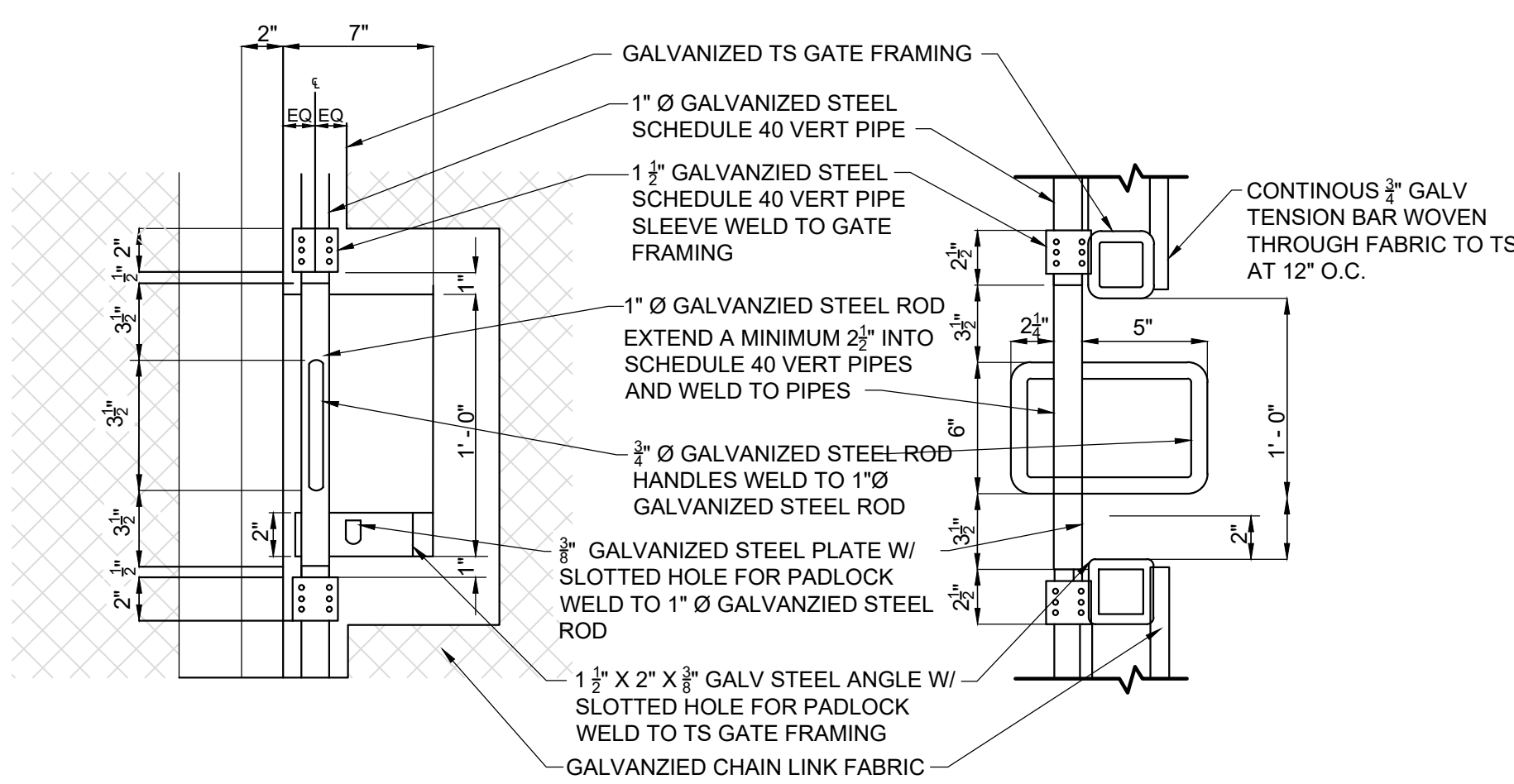


HEAD
NTS

SILL
NTS

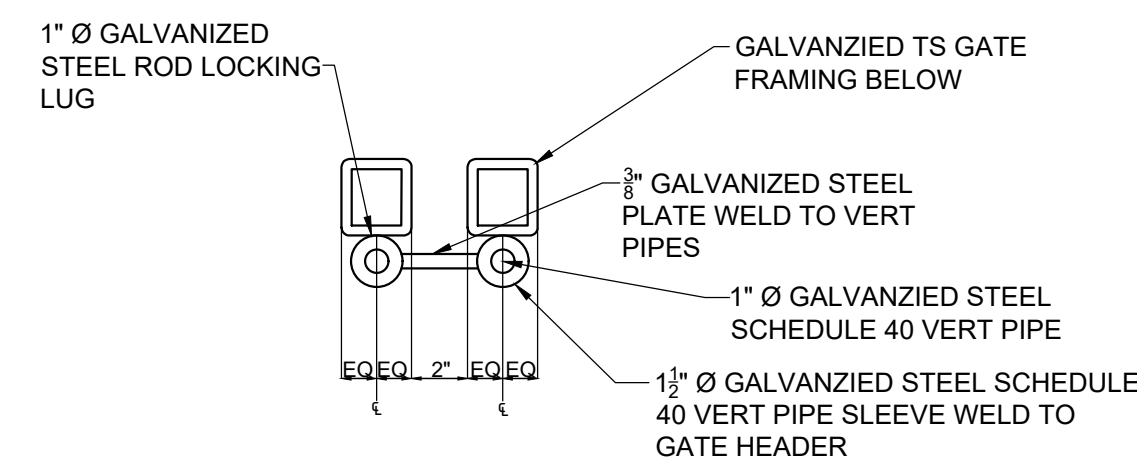


PLAN AT PADLOCK
NTS



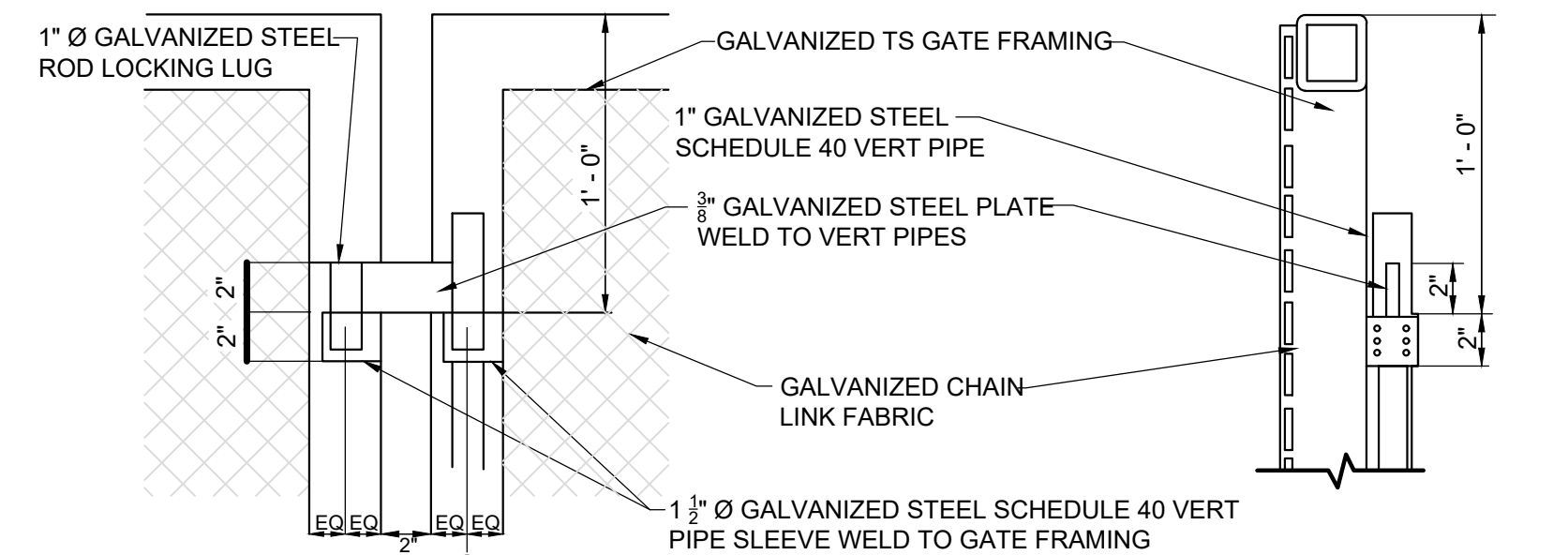
ELEVATION AT PADLOCK
NTS

SECTION AT PADLOCK
NTS



PLAN AT TOP OF GATE
NTS

- NOTES
- AT CONTRACTOR'S OPTION, C ROUND GALVANIZED STEEL PIPE MAY BE USED IN LIEU OF GALVANIZED STEEL SCHEDULE 40 PIPE. FOR ATTACHING CHAIN LINK FABRIC TO GATE FRAMING PROVIDE ONE OF THE FOLLOWING FASTENERS FOR ATTACHING TENSION BAR TO TUBE STEEL.
 - C 145 INCH SHANK DIAMETER POWDER ACTUATED FASTENERS WITH PRE-INSTALLED WASHER EQUIVALENT TO FASTENER.
 - 1/4\"/>
 - 1\"/>



ELEVATION AT TOP RAIL
NTS

SECTION AT TOP RAIL
NTS

TYP. SINGLE/DOUBLE GATE PLUNGER ROD ASSEMBLY DETAILS
NTS

NO.	REVISIONS	DATE	BY	APPD

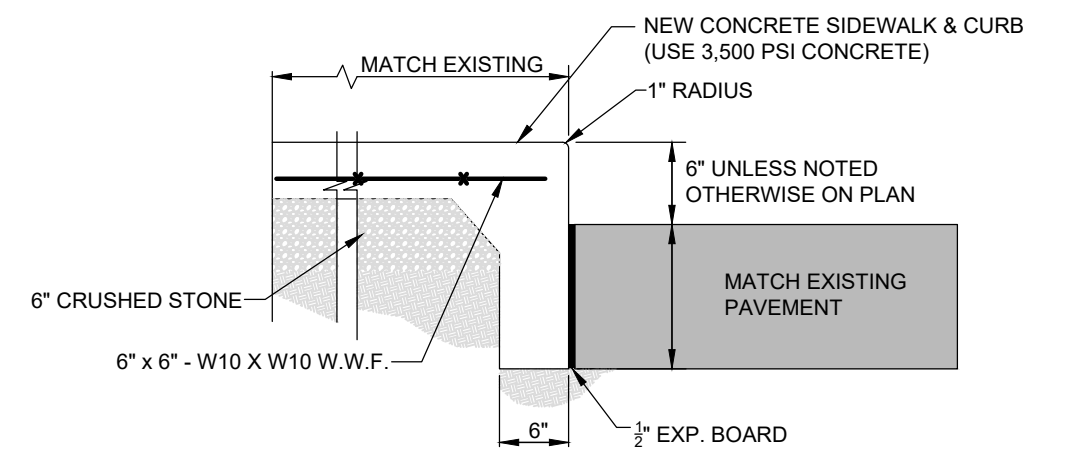
DESIGN: NH, DRAWN: JRH, CHECKED: NH, APPROVED: NH

WASTEWATER TREATMENT PLANT EXPANSION
BLEDSOE COUNTY CORRECTIONAL COMPLEX
PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

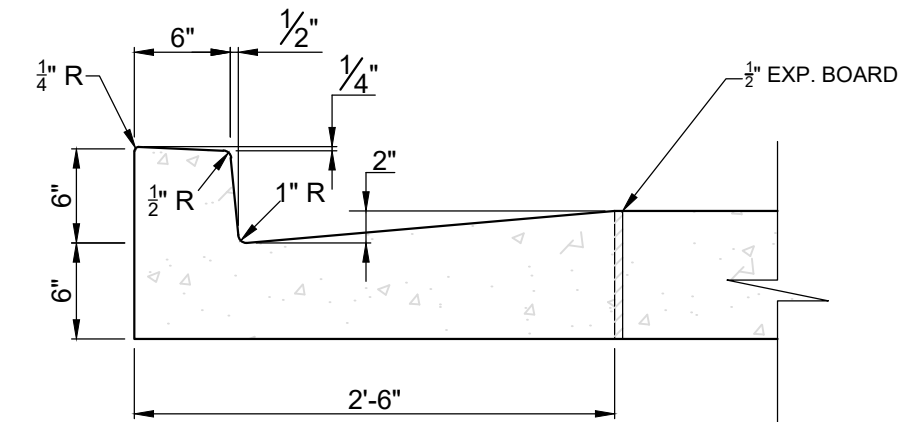
GENERAL DETAILS
SHEET 2



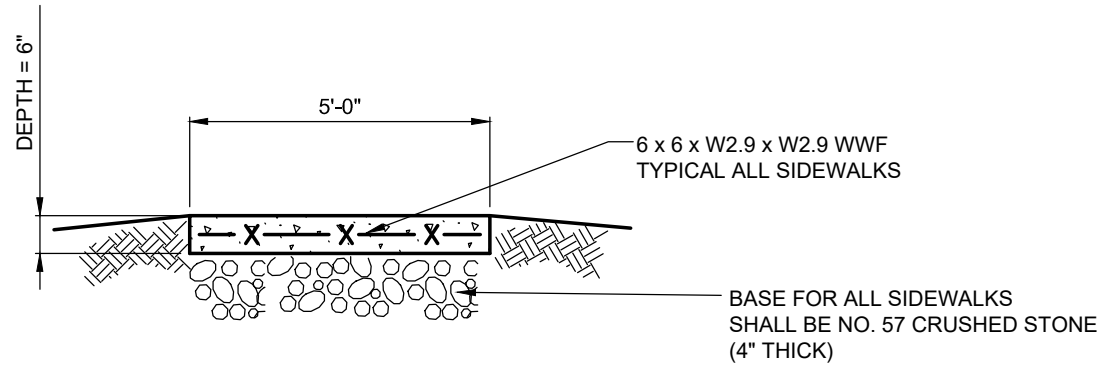
JOB NO. N16003
ISSUE DATE November 30, 2018
SCALE NTS
DRAWING NO. C-022



SIDE WALK DETAIL AT EXISTING PAVEMENT
NTS

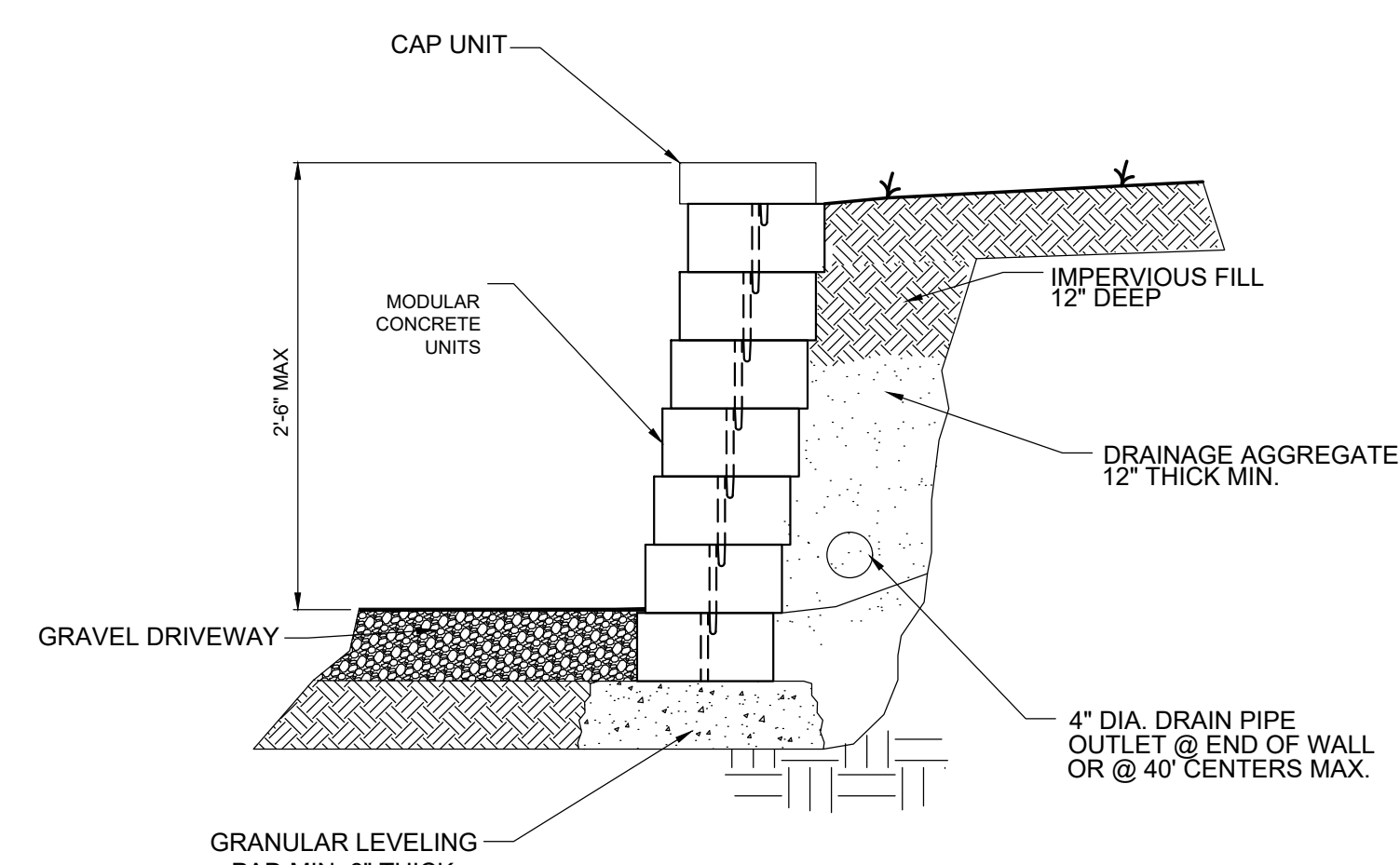


6" CONCRETE COMBINED CURB AND GUTTER
NTS

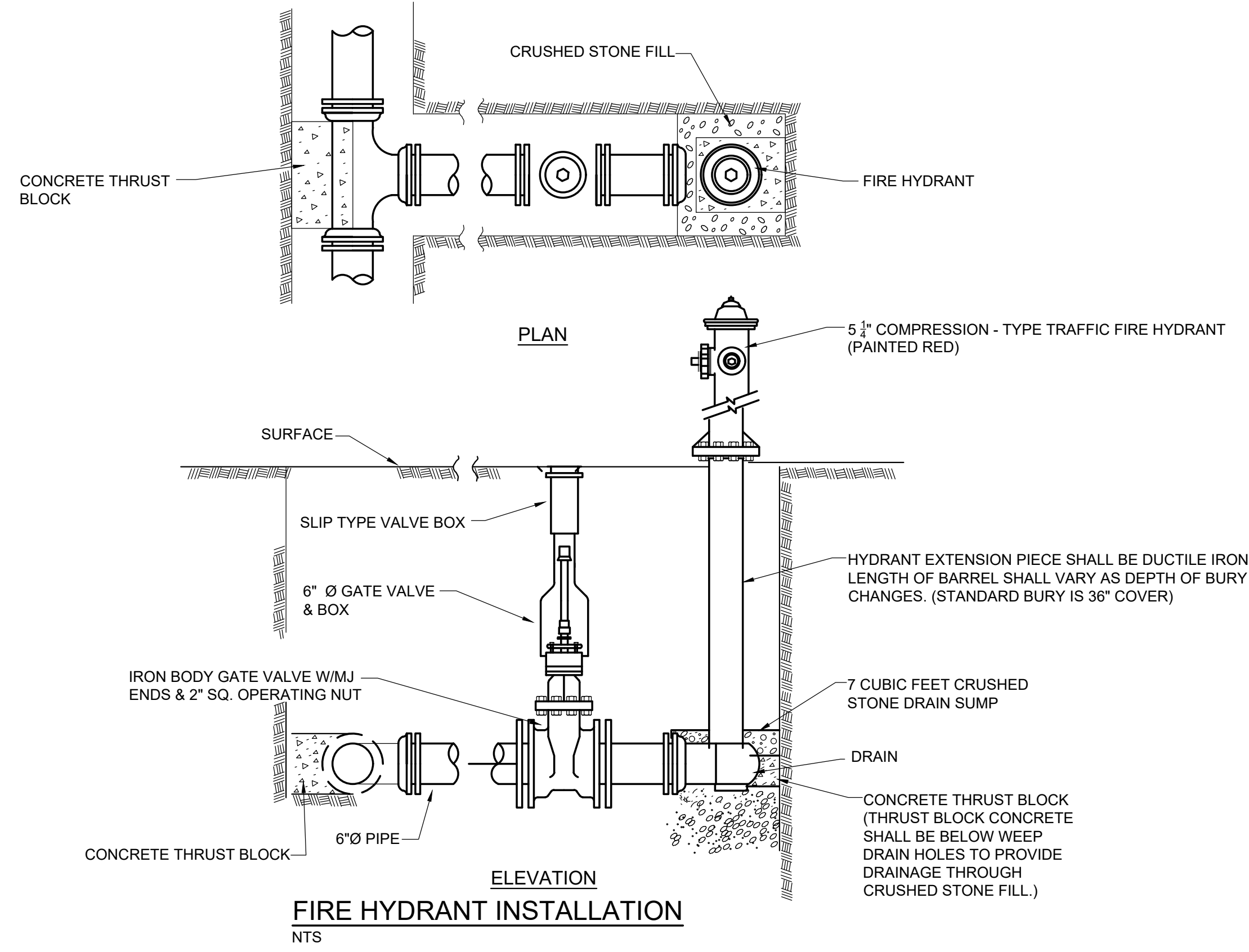


SIDEWALK DETAIL
NTS

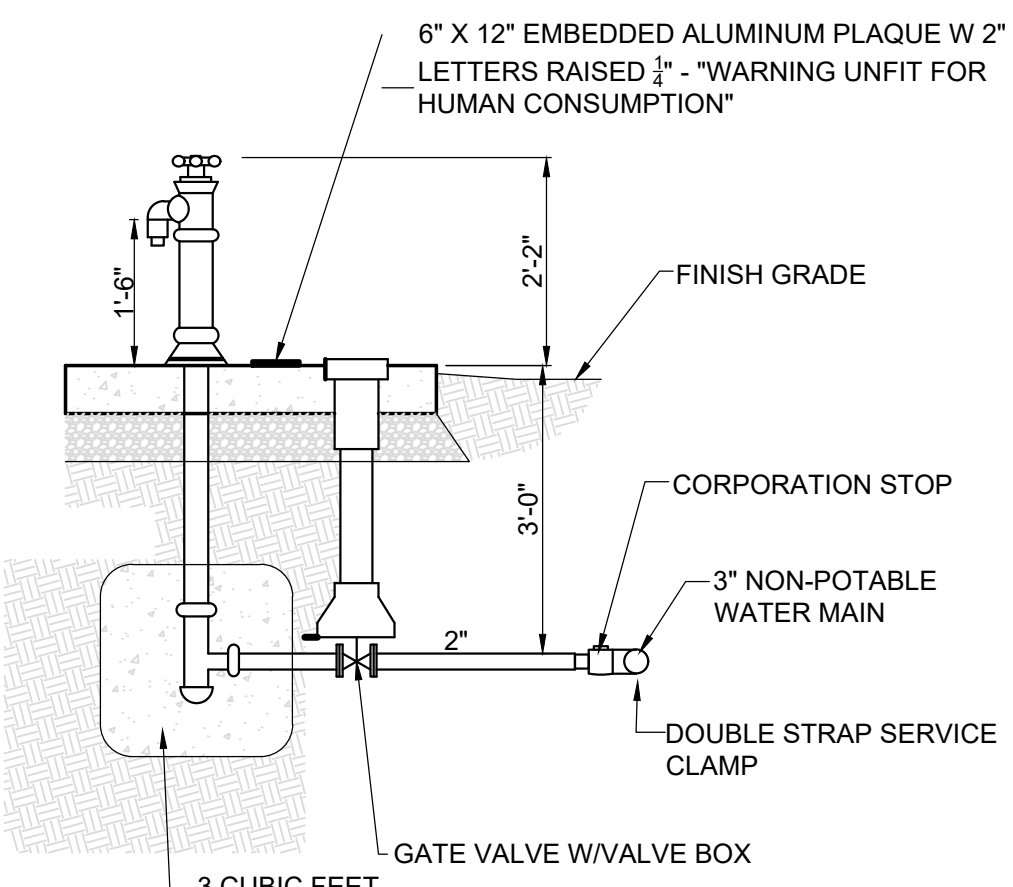
CONTRACTOR SHALL INSTALL CONSTRUCTION JOINTS SPACED NO GREATER THAN THE WIDTH OF THE SIDEWALK WITH EVERY THIRD JOINT BEING AN EXPANSION JOINT FILLED WITH EXPANSION JOINT MATERIAL.



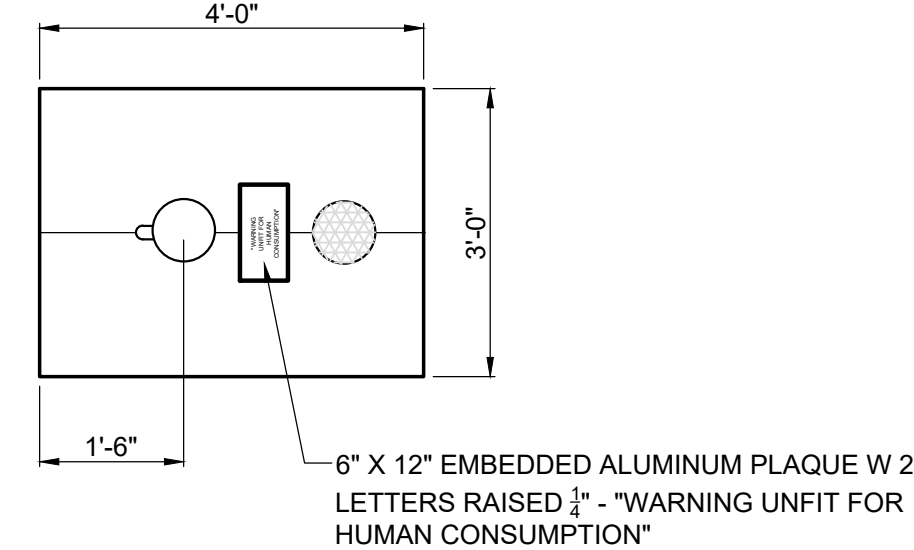
TYPE 1 RETAINING WALL DETAIL
NTS



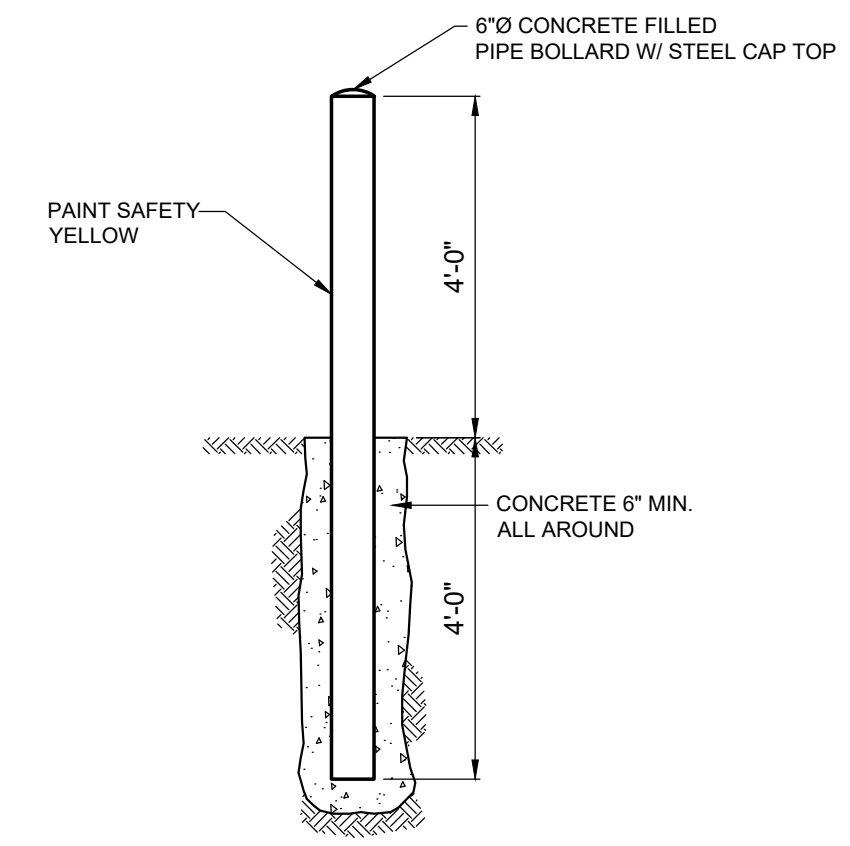
FIRE HYDRANT INSTALLATION
NTS



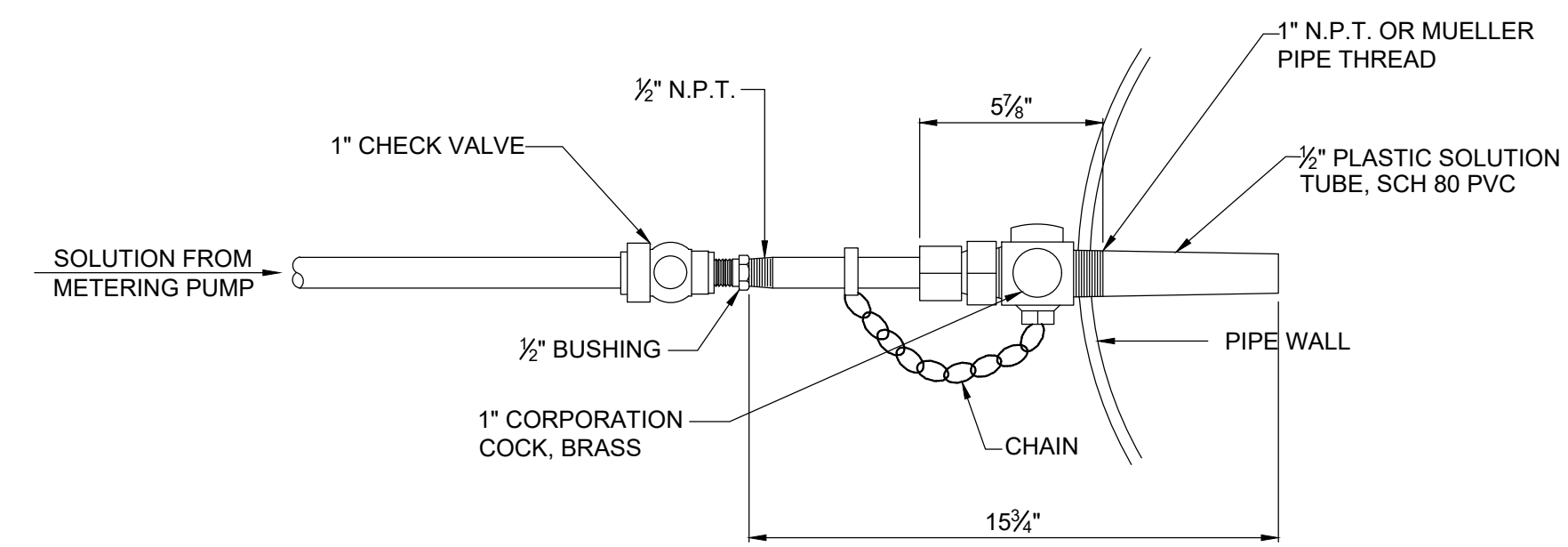
YARD HYDRANT SECTION
SCALE: 1/2" = 1' - 0"



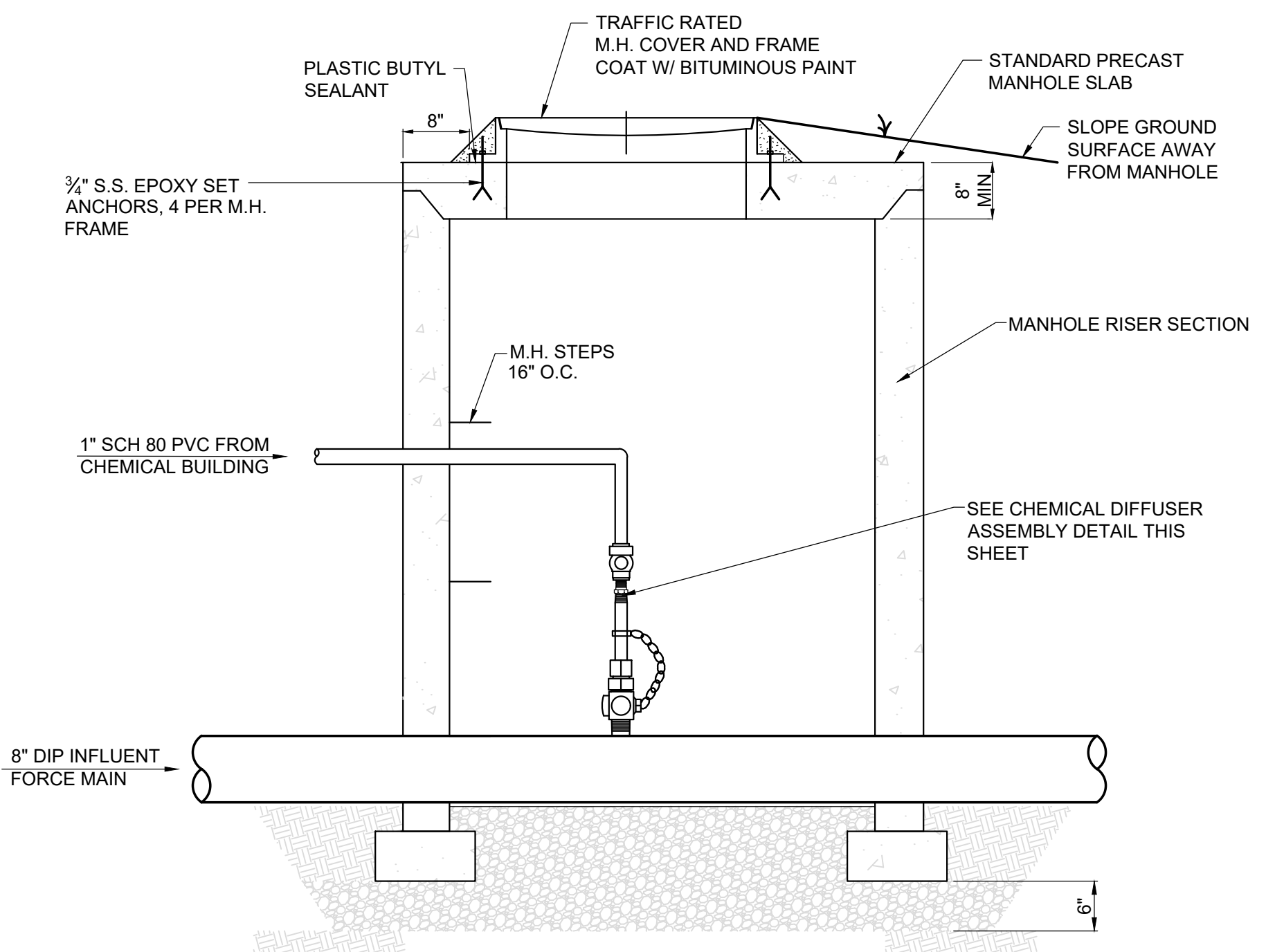
YARD HYDRANT DETAIL
SCALE: 1/2" = 1' - 0"



BOLLARD DETAIL
NTS



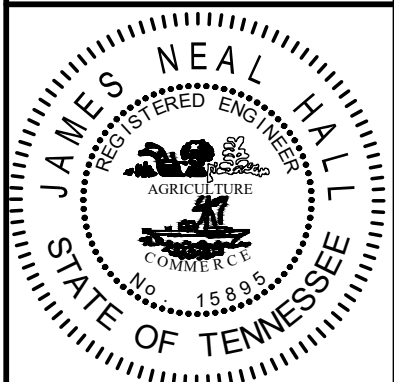
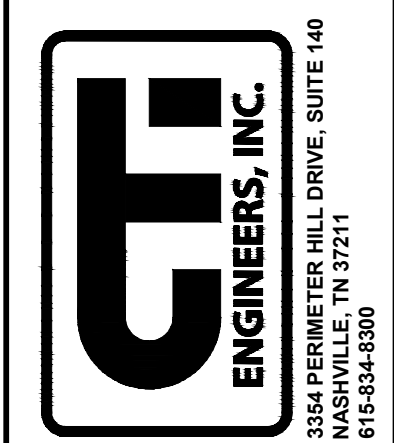
CHEMICAL DIFFUSER ASSEMBLY
NTS



CHEMICAL INJECTION MANHOLE
NTS

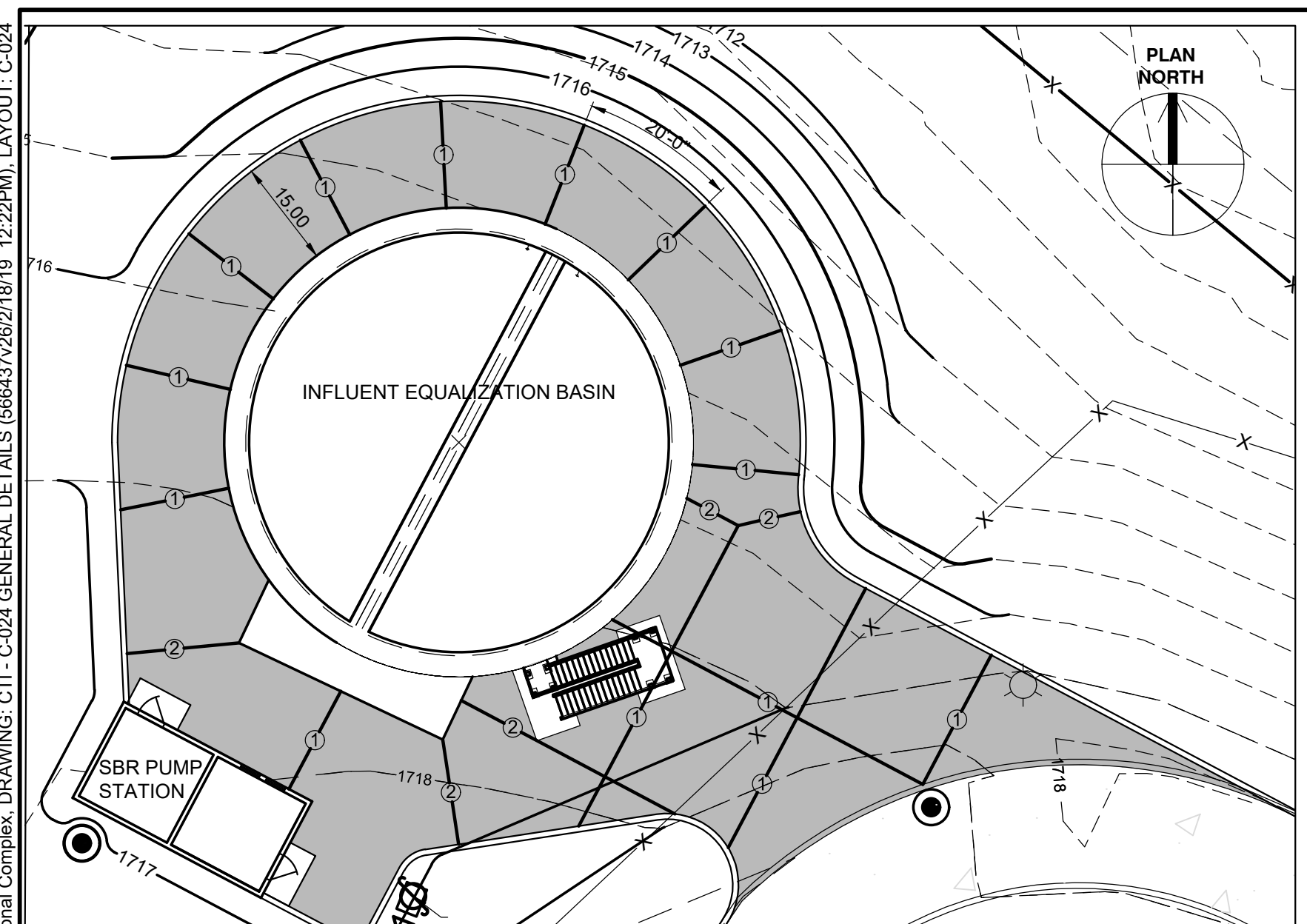
REVISIONS		DATE	BY	APPD
NO.	DESCRIPTIONS			

DESIGN	DRAWN	CHECKED	APPROVED
NH	JRH	NH	NH

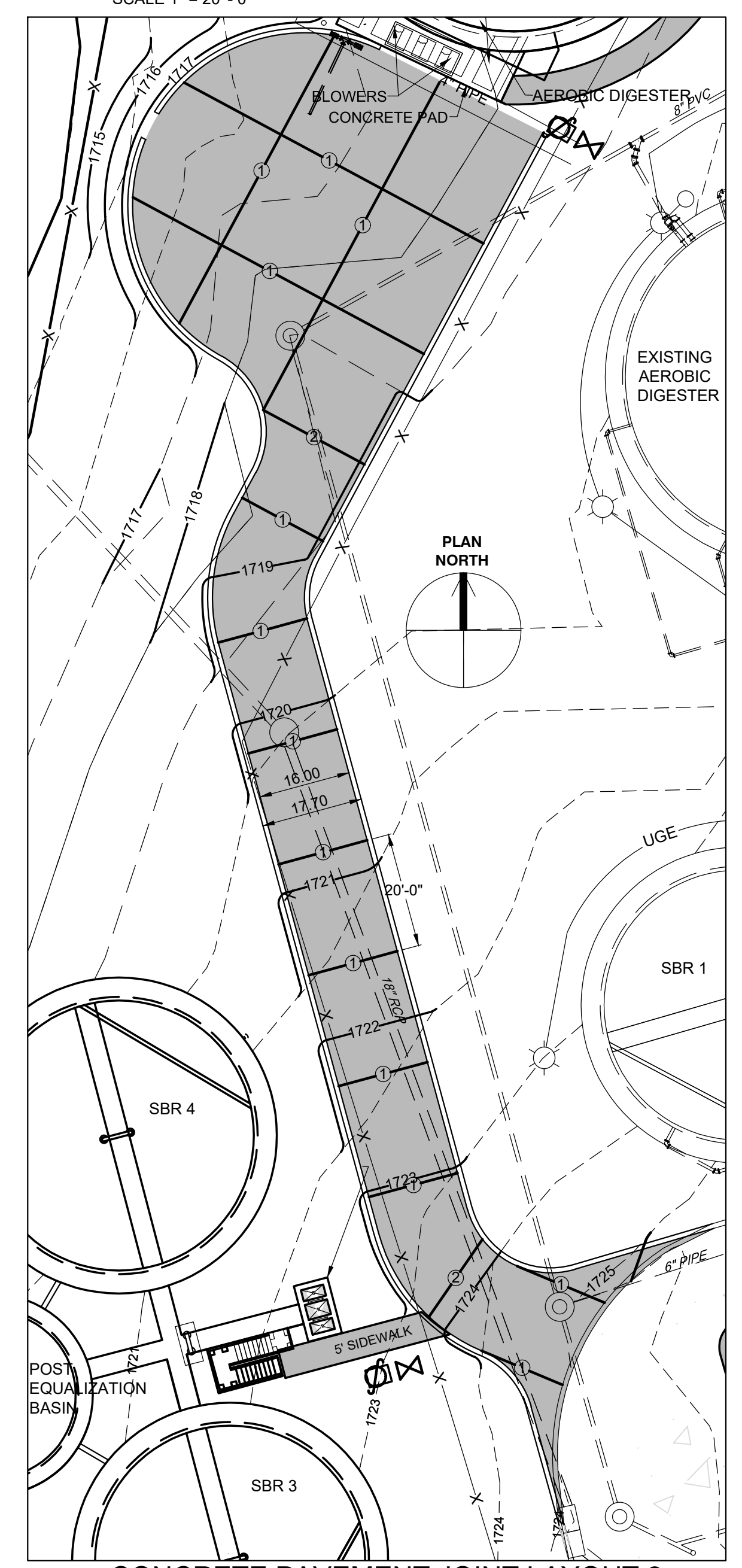


WASTEWATER TREATMENT PLANT EXPANSION BLEDSOE COUNTY CORRECTIONAL COMPLEX PIKEVILLE, BLED SOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06
GENERAL DETAILS SHEET 3
JOB NO. N16003
ISSUE DATE November 30, 2018
SCALE AS NOTED
DRAWING NO. C-023

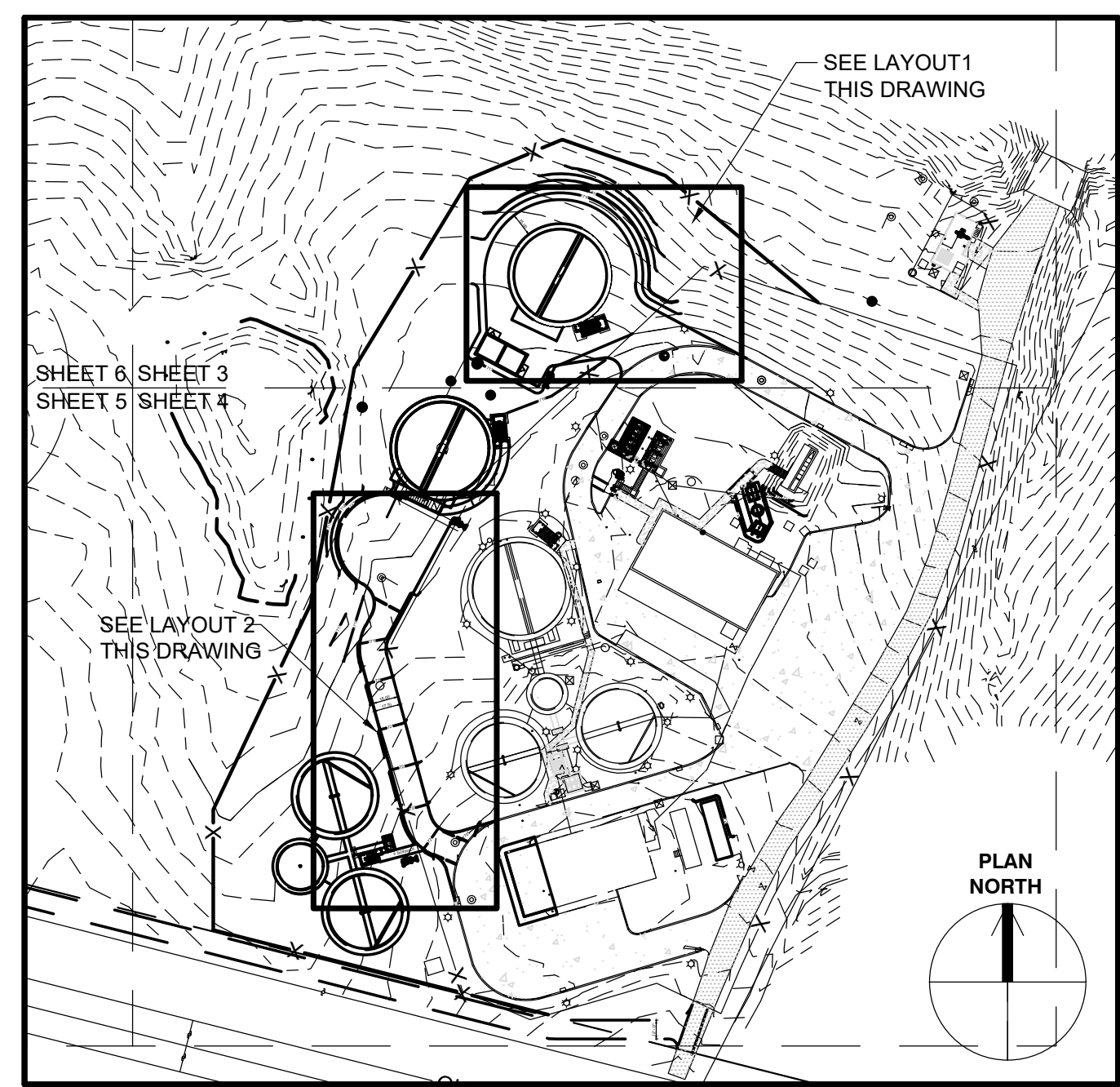
CTI PROJECT: N16003-01 (TN Dept. General Services TDEC) Bledsoe County Correctional Complex DRAWING: CTI - C-024 GENERAL DETAILS S (5664374262/1819, 12:22PM), LAYOUT: C-024
 DATE OF PRINT: 2/19/2019 2:31 PM



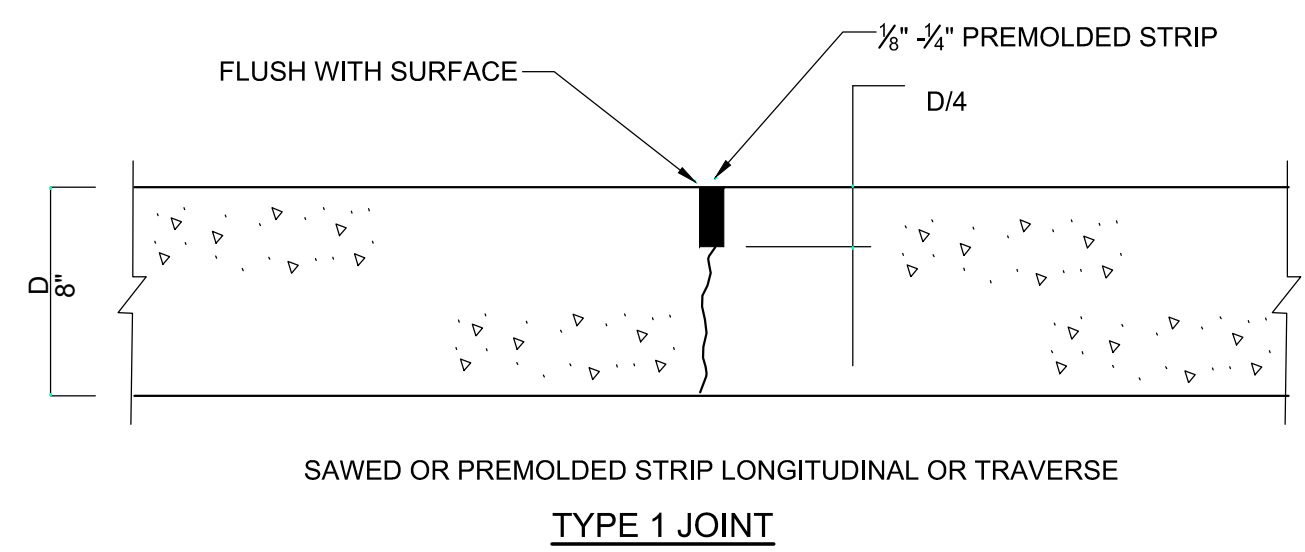
CONCRETE PAVEMENT JOINT LAYOUT 1
SCALE 1" = 20' - 0"



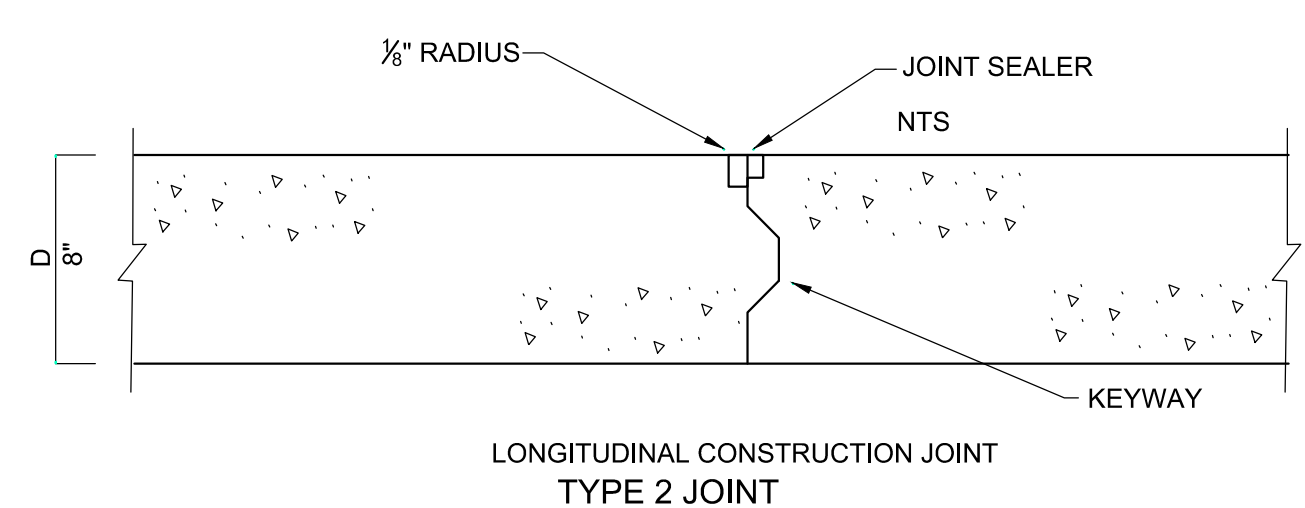
CONCRETE PAVEMENT JOINT LAYOUT 2
SCALE 1" = 20' - 0"



SITE KEY MAP
SCALE: 1" = 100'

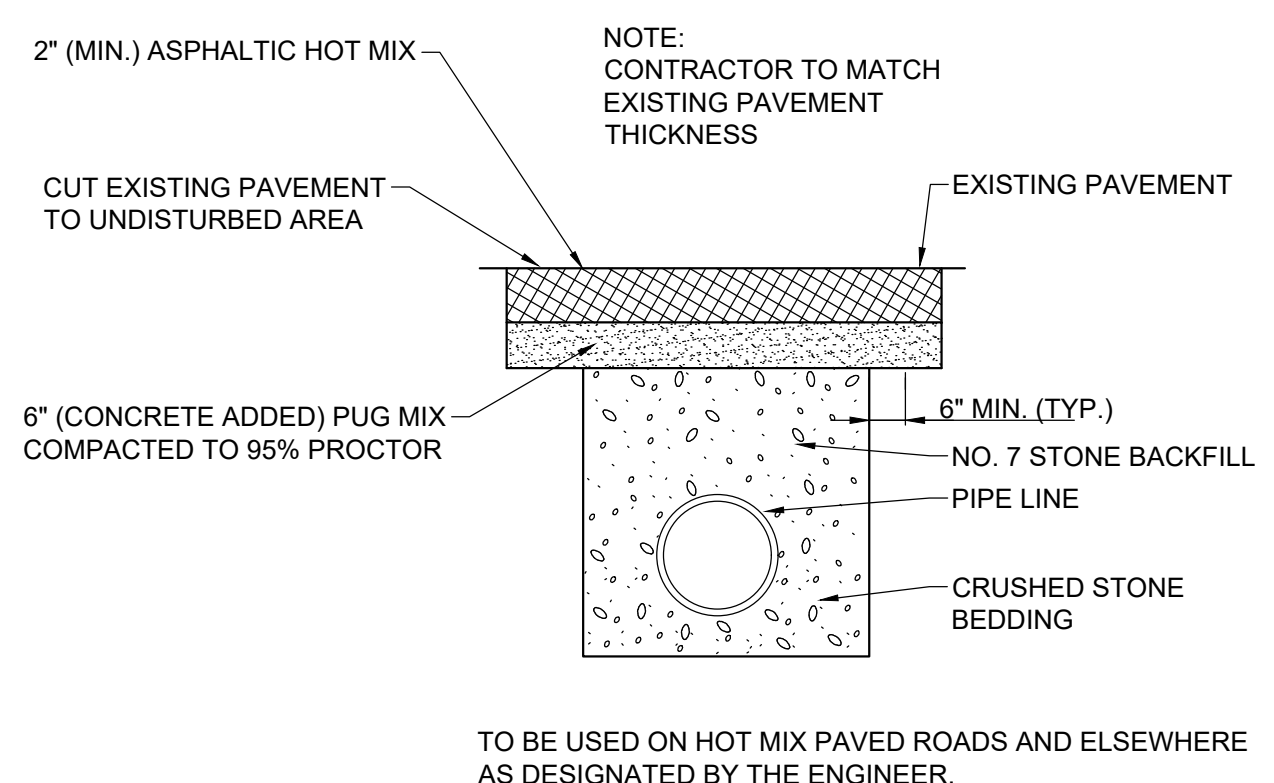


TYPE 1 JOINT

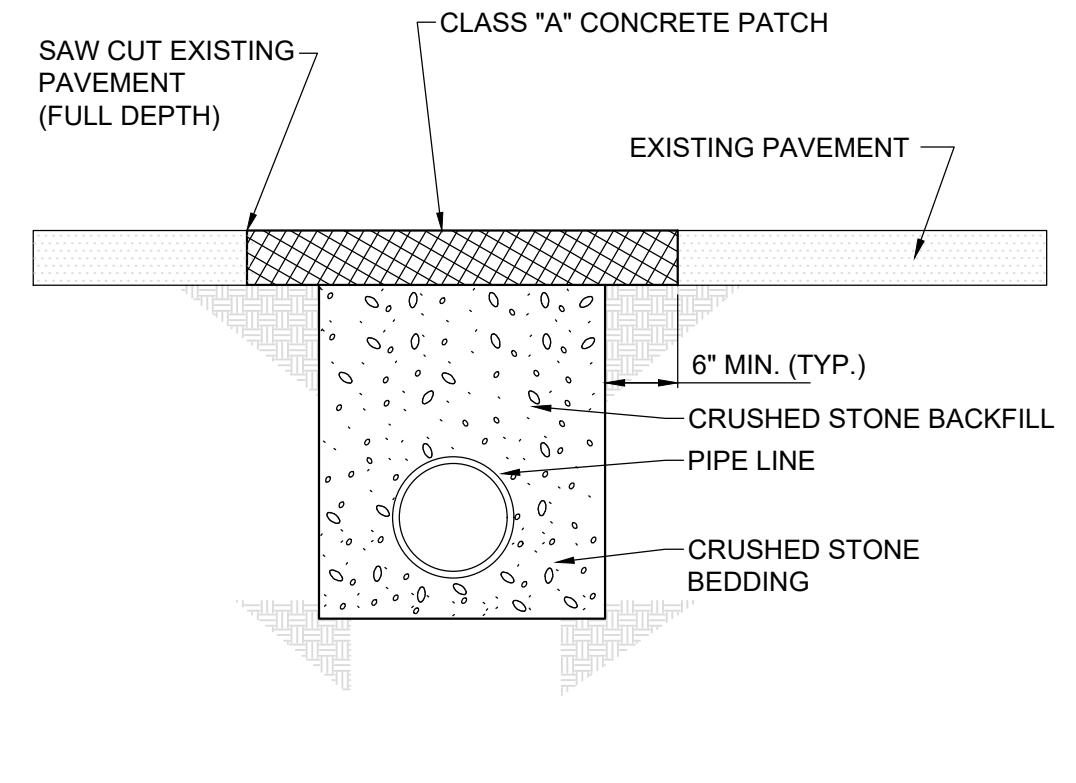


**LONGITUDINAL CONSTRUCTION JOINT
TYPE 2 JOINT**

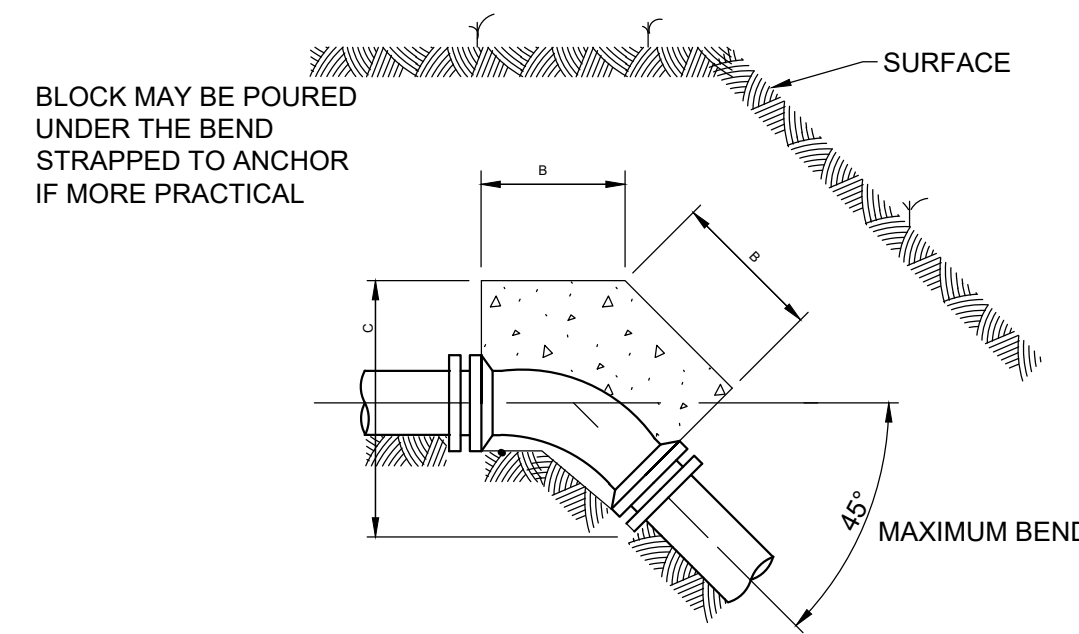
CONCRETE PAVEMENT JOINT DETAILS
NTS



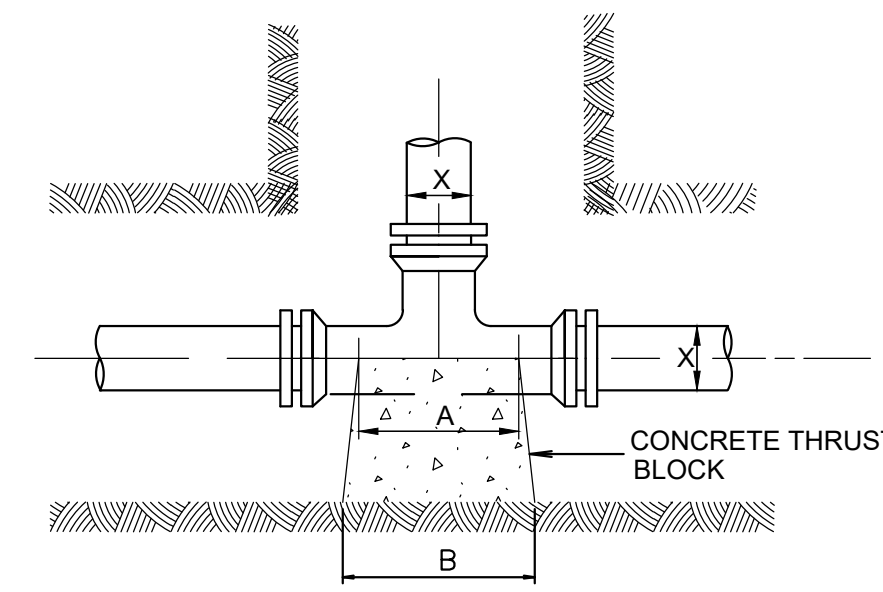
ASPHALT PAVEMENT REPLACEMENT DETAIL
NTS



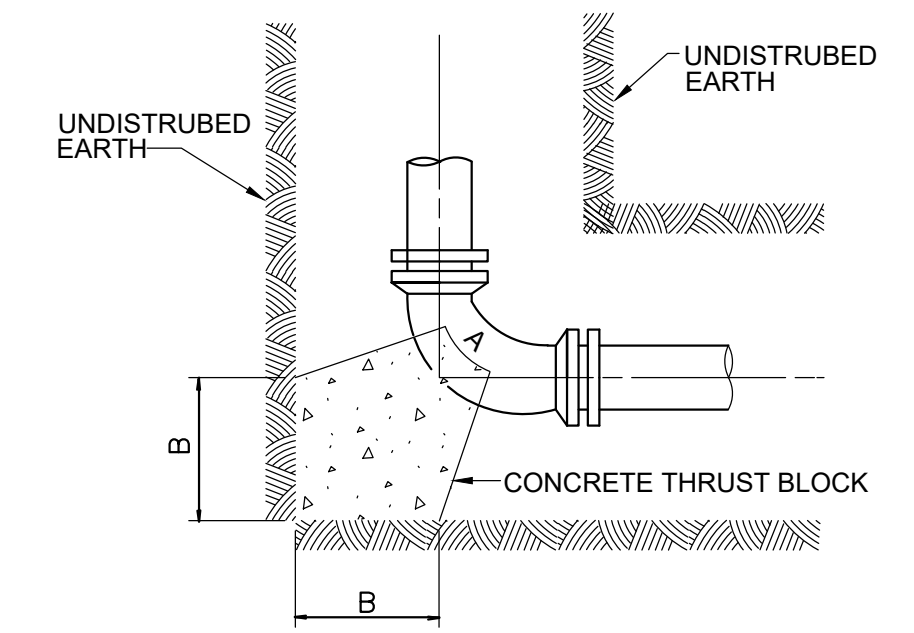
CONCRETE PAVEMENT REPLACEMENT DETAIL
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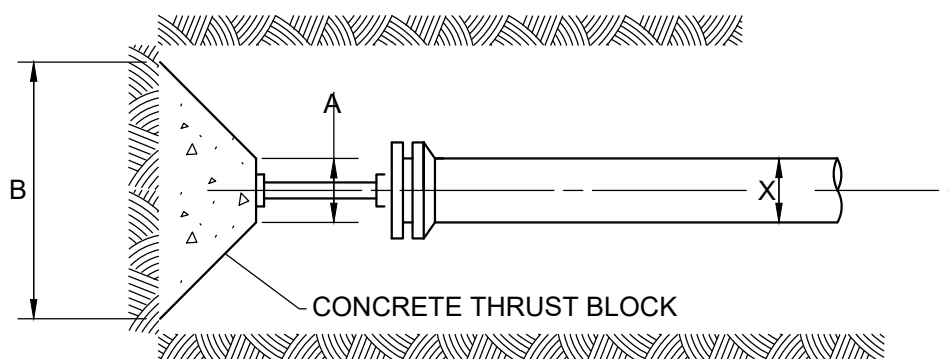
PLAN-TYPICAL VERTICAL BEND
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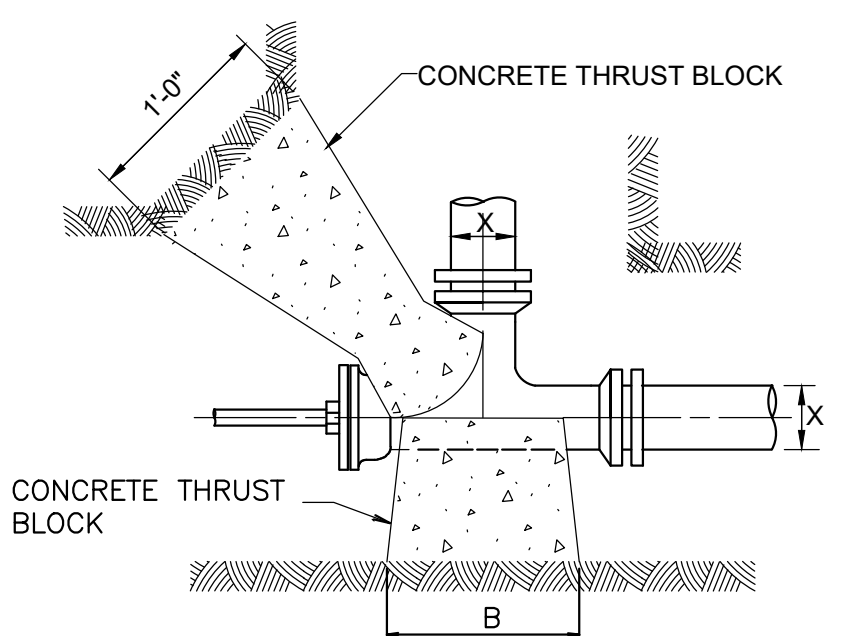
PLAN-TYPICAL TEE
NTS



PLAN-TYPICAL HORIZONTAL BEND
NTS



PLAN-TYPICAL PLUG
NTS



PLAN-UNBALANCED TEE
NTS

THRUST BLOCK DIMENSIONS							
PIPE SIZE X	A	B	DEPTH C	PIPE SIZE X	A	B	DEPTH C
11 1/4° BEND				90° BEND & UNBALANCED TEE			
16"	1'-0"	1'-4"	1'-4"	16"	1'-9"	3'-6"	3'-6"
12"	1'-0"	1'-2"	1'-3"	12"	1'-6"	3'-0"	3'-0"
10"	0'-9"	1'-0"	1'-0"	10"	1'-4"	2'-2"	3'-0"
8"	0'-9"	1'-0"	0'-8"	8"	1'-0"	2'-0"	2'-0"
6"	0'-9"	1'-0"	0'-6"	6"	1'-0"	1'-3"	2'-0"
4"	0'-6"	1'-0"	0'-4"	4"	0'-9"	1'-0"	1'-0"
DEAD END				45° BEND			
16"	1'-0"	3'-0"	3'-0"	16"	1'-0"	4'-3"	2'-0"
12"	0'-11"	2'-6"	2'-7"	12"	1'-0"	2'-6"	2'-0"
10"	0'-9"	2'-0"	2'-4"	10"	0'-9"	2'-0"	1'-9"
8"	0'-7"	1'-8"	1'-9"	8"	0'-9"	1'-6"	1'-8"
6"	0'-5"	1'-3"	1'-5"	6"	0'-9"	1'-0"	1'-6"
4"	0'-4"	0'-10"	0'-11"	4"	0'-9"	1'-0"	1'-0"
TEE				22 1/2° BEND			
16"	2'-6"	5'-6"	3'-0"	16"	1'-0"	2'-4"	2'-0"
12"	2'-0"	4'-9"	2'-9"	12"	1'-0"	1'-6"	1'-9"
10"	1'-9"	4'-0"	2'-3"	10"	0'-8"	1'-3"	1'-6"
8"	1'-6"	3'-0"	2'-0"	8"	0'-9"	1'-0"	1'-4"
6"	1'-0"	2'-8"	1'-6"	6"	0'-9"	0'-10"	1'-0"
4"	1'-0"	2'-0"	1'-0"	4"	0'-9"	0'-7"	1'-0"

TABLE OF DIMENSIONS FOR HORIZONTAL & VERTICAL BENDS

NOTE: ALL CONCRETE FOR THRUST BLOCKS SHALL BE READY-MIXED CLASS "B". MIX DESIGN SHALL BE SUBMITTED TO DESIGNER FOR APPROVAL PRIOR TO USE. THRUST BLOCKS BASED ON 225 psi & 2000lb/ft² SOIL RESISTANCE TYPICAL FOR UNDISTURBED SAND AND GRAVEL CEMENTED WITH CLAY. FOR OTHER SOILS THE BEARING FACE OF THE THRUST BLOCKS SHOULD BE INCREASED BY THE FOLLOWING FACTORS:

SAND	2
SAND & GRAVEL	1.33
SHALE	0.4

SOFT CLAY, MUCK AND PEAT SHALL USE RESTRAINED JOINTS IN LIEU OF THRUST BLOCKS.

NOTE ALL WATER AND PRESSURE SEWER JOINTS SHALL BE RESTRAINED

THRUST BLOCK DETAILS
NTS

NO.	REVISIONS DESCRIPTIONS	DATE	BY	APPD

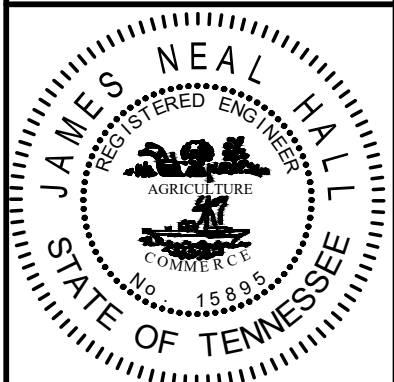
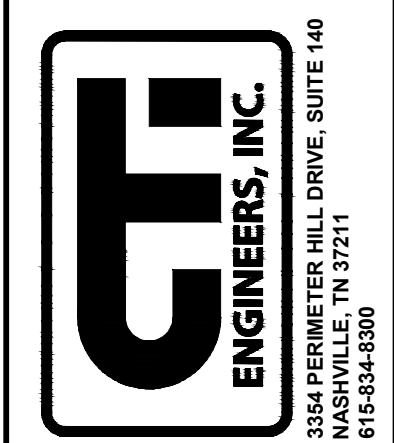
DESIGN: NH

DRAWN: JRH

CHECKED: NH

APPROVED: NH

WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06



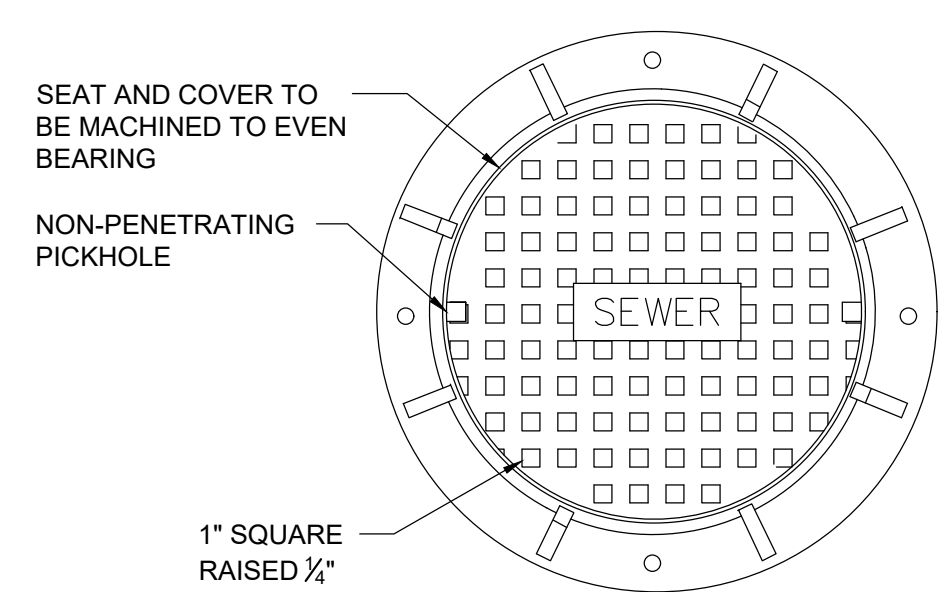
JOB NO.
N16003

ISSUE DATE
November 30, 2018

SCALE
NTS

DRAWING NO.
C-024

CTI PROJECT: N16003-01 (TN Dept. General Services TDEC) Bledsoe County Correctional Complex DRAWING: CTI - C-025 GENERAL DETAILS (566417428/1819, 12:23PM), LAYOUT: C-025
 DATE OF PRINT: 2/19/2019 2:37 PM

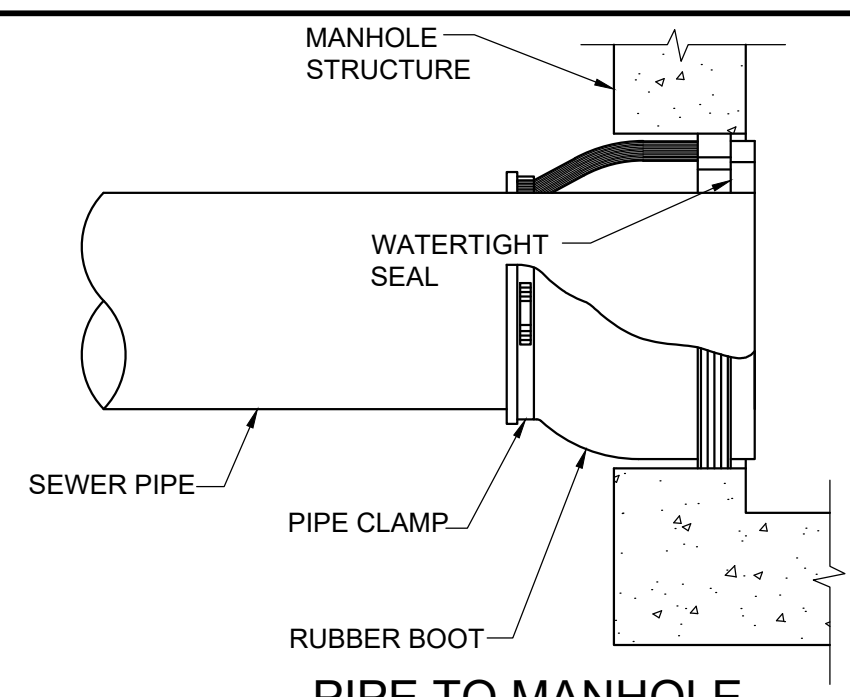


NOTES

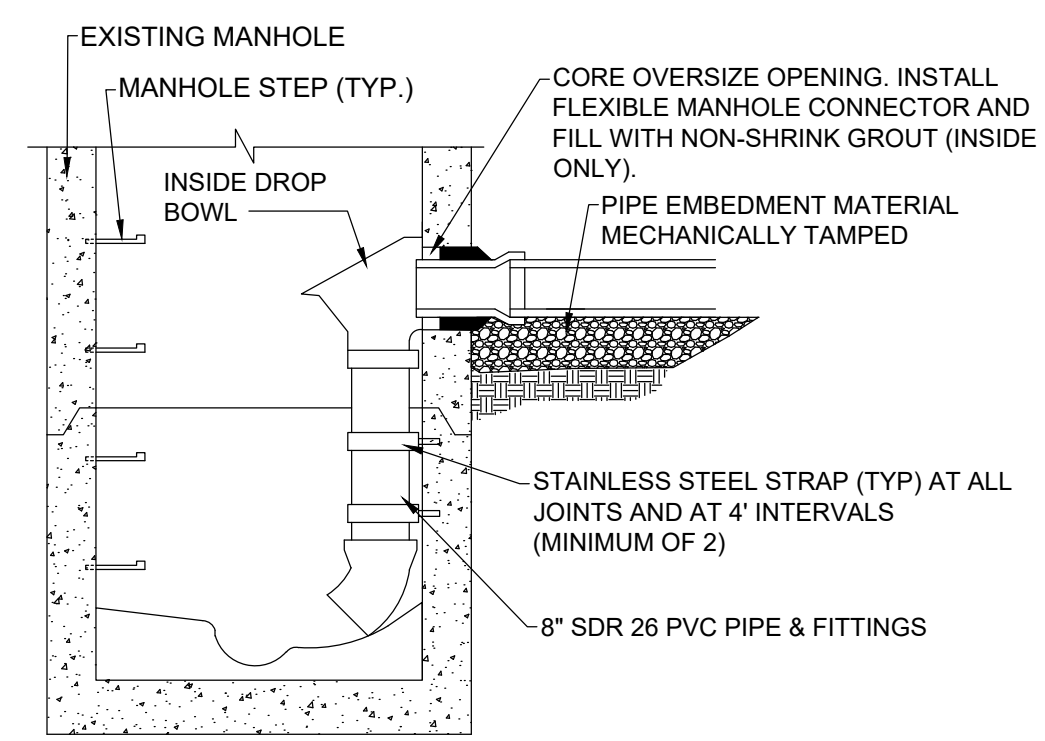
- MANUFACTURER SHALL CERTIFY TRAFFIC BEARING CAPACITY OF FRAMES AND COVERS.
- BEARING SURFACES BETWEEN COVER AND FRAME SHALL BE MACHINED TO PREVENT ROCKING
- PROVIDE HINGED COVER WITH LOCKING BOLTS (5' - SIDED)

	SPECIFIED MINIMUM WEIGHTS	
	STANDARD	WATER-TIGHT
COVER	165 LBS.	190 LBS.
FRAME	185 LBS.	400 LBS.
TOTAL	350 LBS.	590 LBS.

PLAN - FRAME AND COVER
NTS



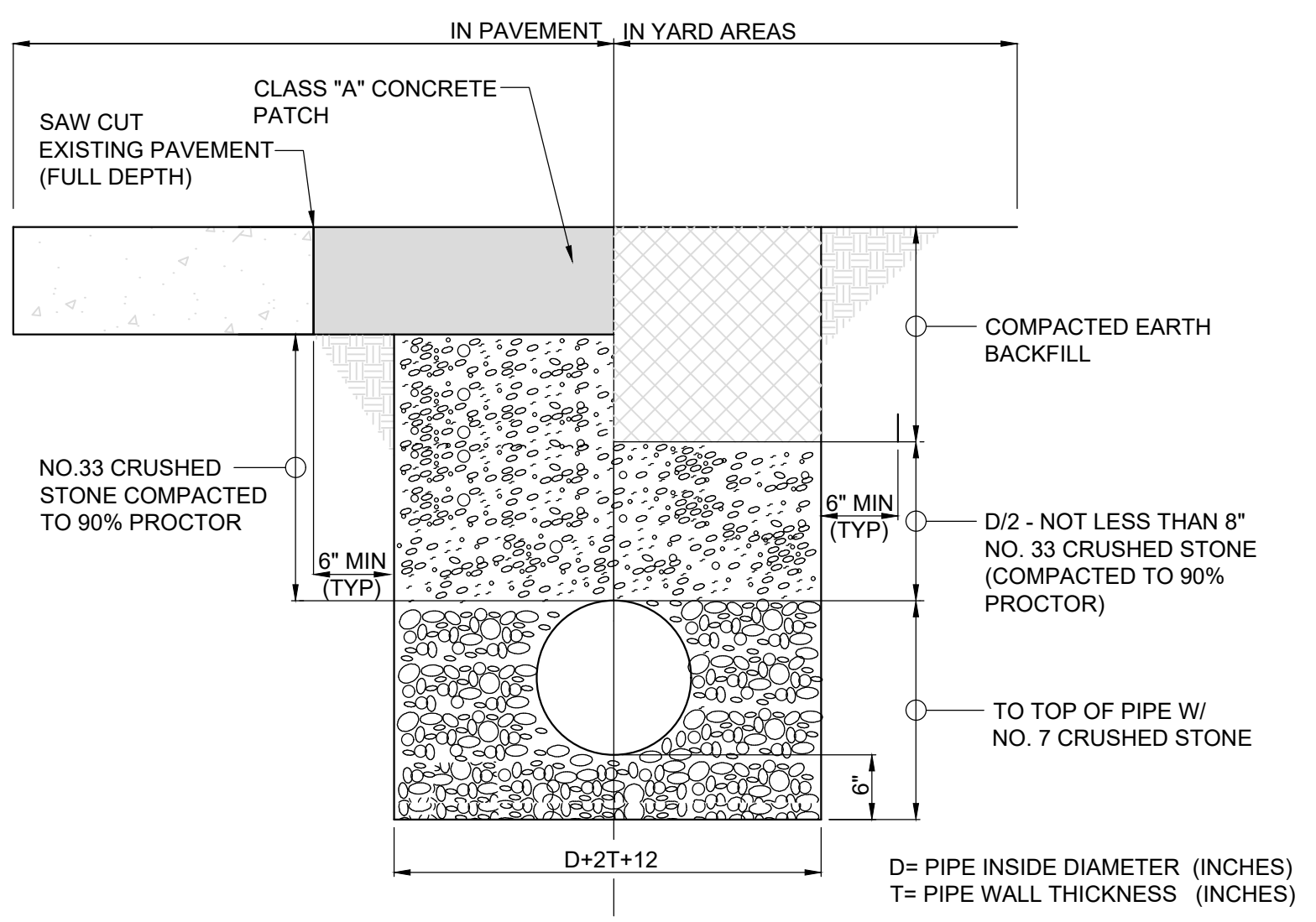
PIPE TO MANHOLE CONNECTION DETAIL
NTS



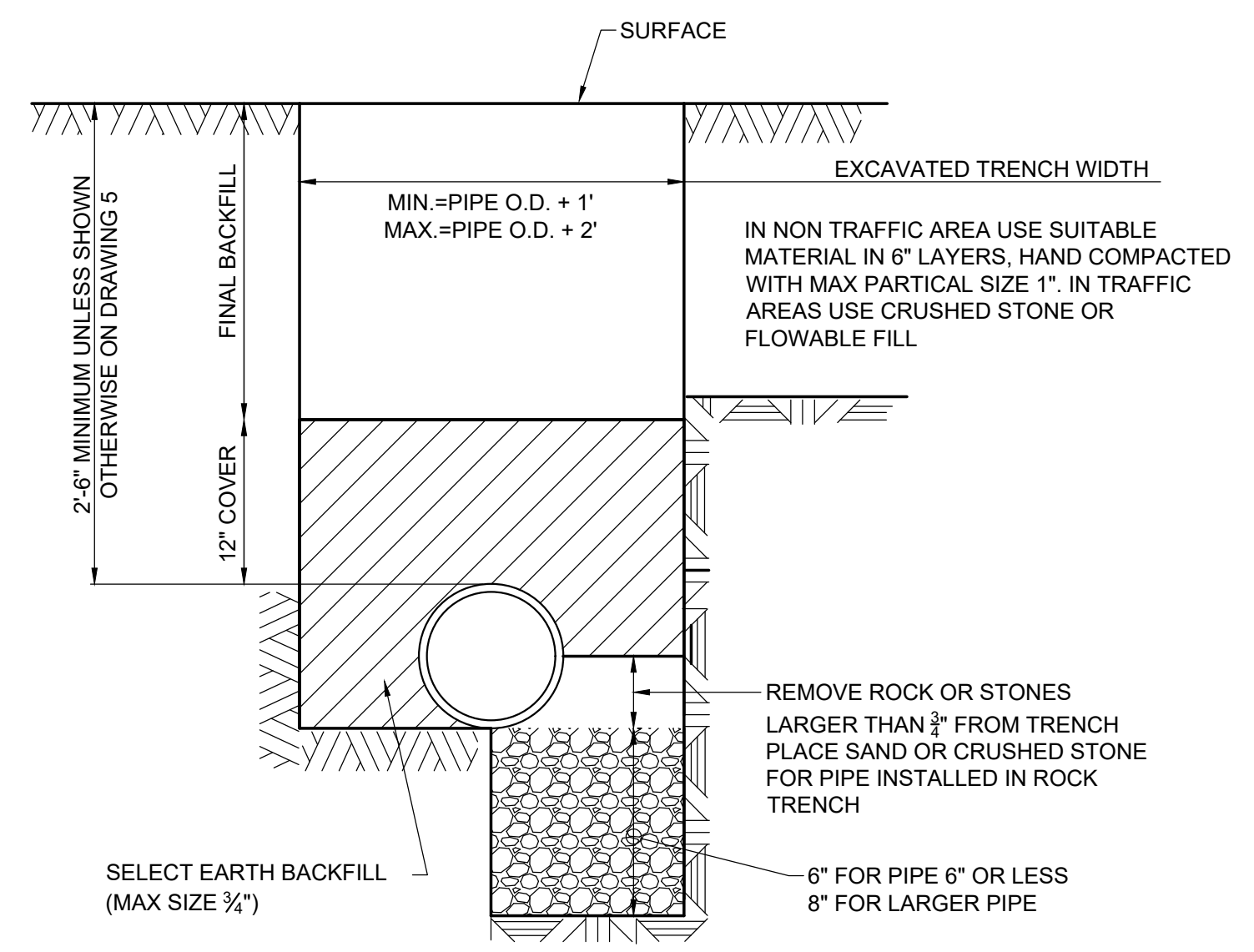
SECTION A-A

NOTE:
THE BOWL SIZE SHALL BE AN A8BD DROP BOWL. THE ASSEMBLY SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS USING STAINLESS STEEL FASTENERS. THE DROP PIPE SHALL BE SECURELY ATTACHED TO THE MANHOLE WALL USING STAINLESS STEEL RETAINER ADJUSTABLE CLAMPING BRACKETS AND STAINLESS STEEL PIPE BRACKETS. THE TURNOUT AT THE BASE END OF THE DROP PIPE SHALL BE ACCOMPLISHED WITH A CAST-IN DROP END FLUME SYSTEM OR AN APPROPRIATELY ANGLED PVC PIPE 45° ELBOW.

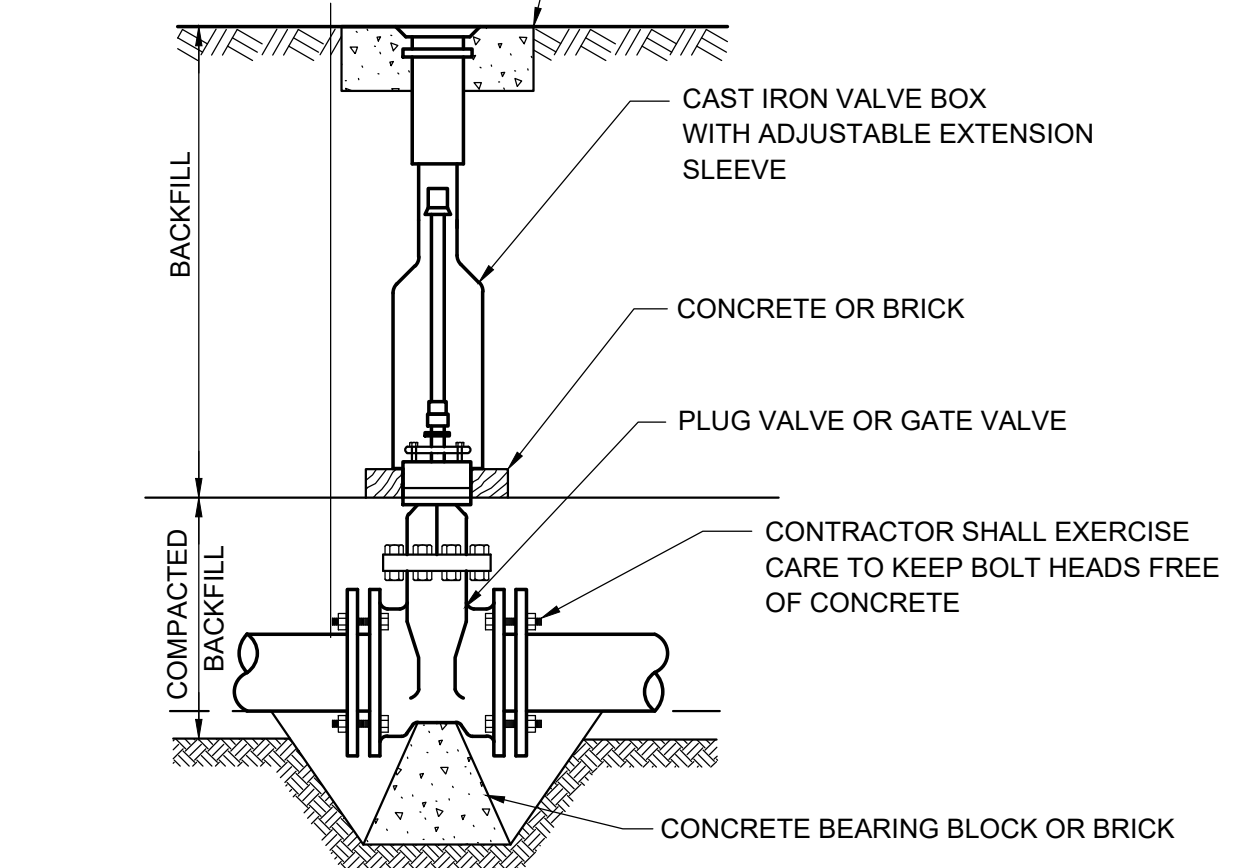
MANHOLE DROP CONNECTION
NTS



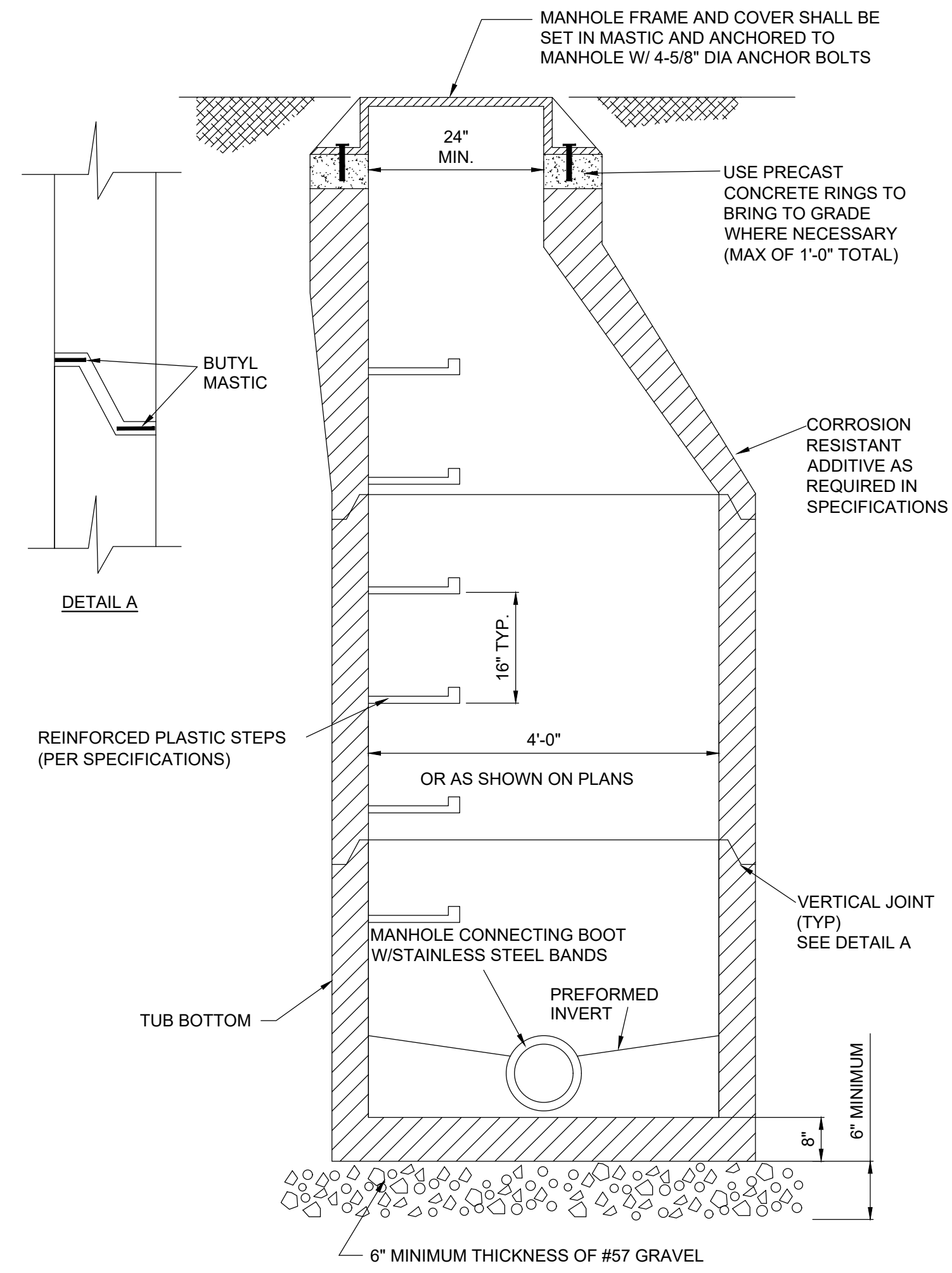
STORM SEWER PIPE DETAIL
NTS



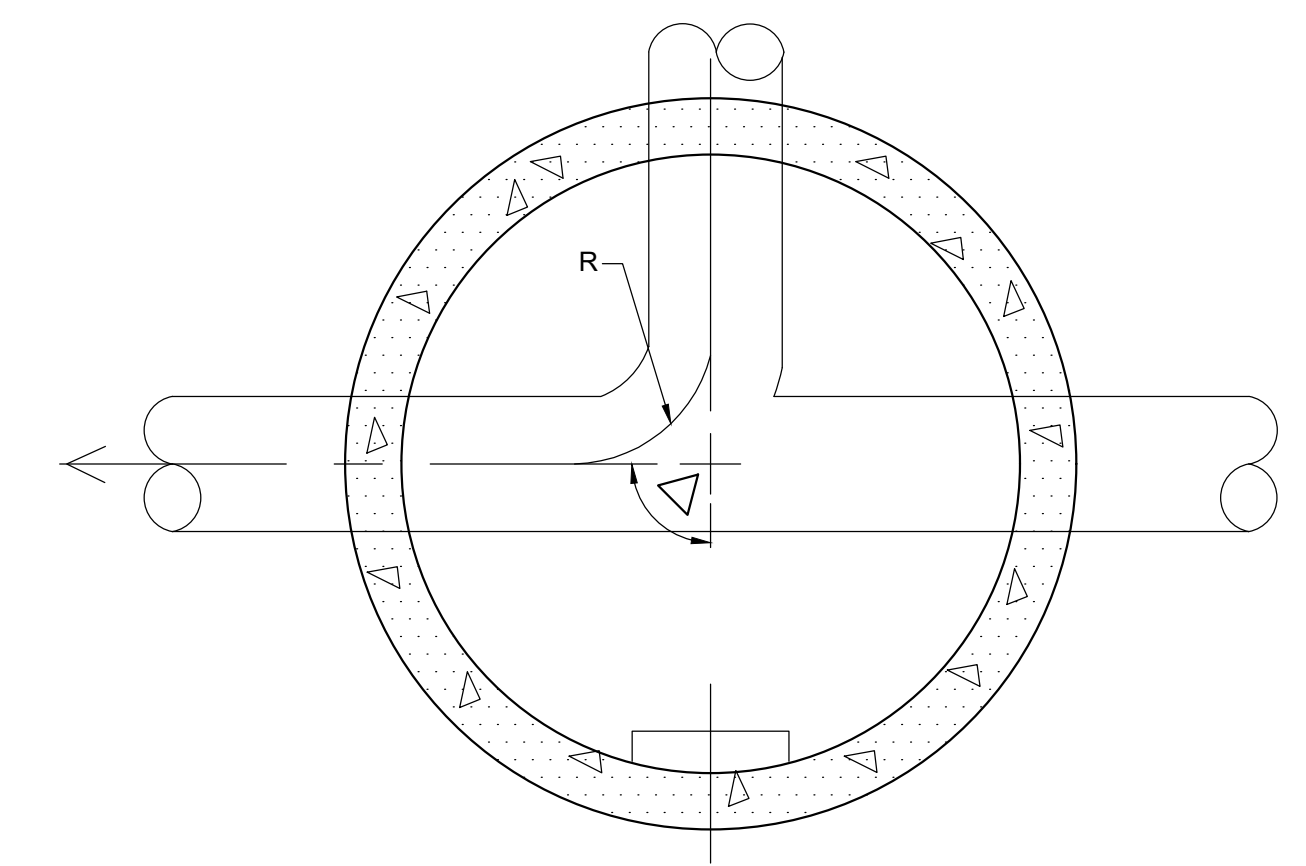
DUCTILE IRON PIPE INSTALLATION DETAIL
NTS



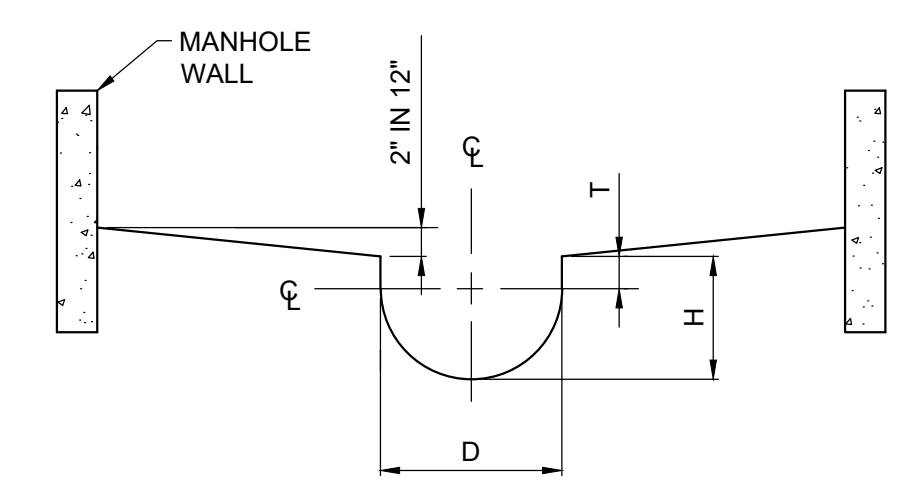
PLUG VALVE & GATE VALVE INSTALLATION DETAIL
NTS



PRECAST MANHOLE DETAILS
NTS



INVERT PLAN



INVERT SECTION

- GENERAL NOTES:**
- ALL MATERIALS, DESIGN, MANUFACTURE, PHYSICAL TEST REQUIREMENTS, FINISH, MARKING, INSPECTION, REJECTION, AND REPAIRS TO MEET ASTM C478 FOR PRECAST REINFORCED CONCRETE MANHOLE RISERS AND TOPS EXCEPT AS MAY BE MODIFIED IN THESE SPECIFICATIONS.
 - SIZE AND LOCATE PIPE CUTOUTS AS REQUIRED.
 - FOR BRINGING MANHOLE FRAME AND COVER TO GRADE, USE PRECAST CONCRETE RINGS.
 - ALL MANHOLES SHALL USE STANDARD ECCENTRIC CONES.
 - ALL MANHOLES SHALL BE VACUUM TESTED AFTER INSTALLATION.

STANDARD PIPE INVERT DETAILS
NTS

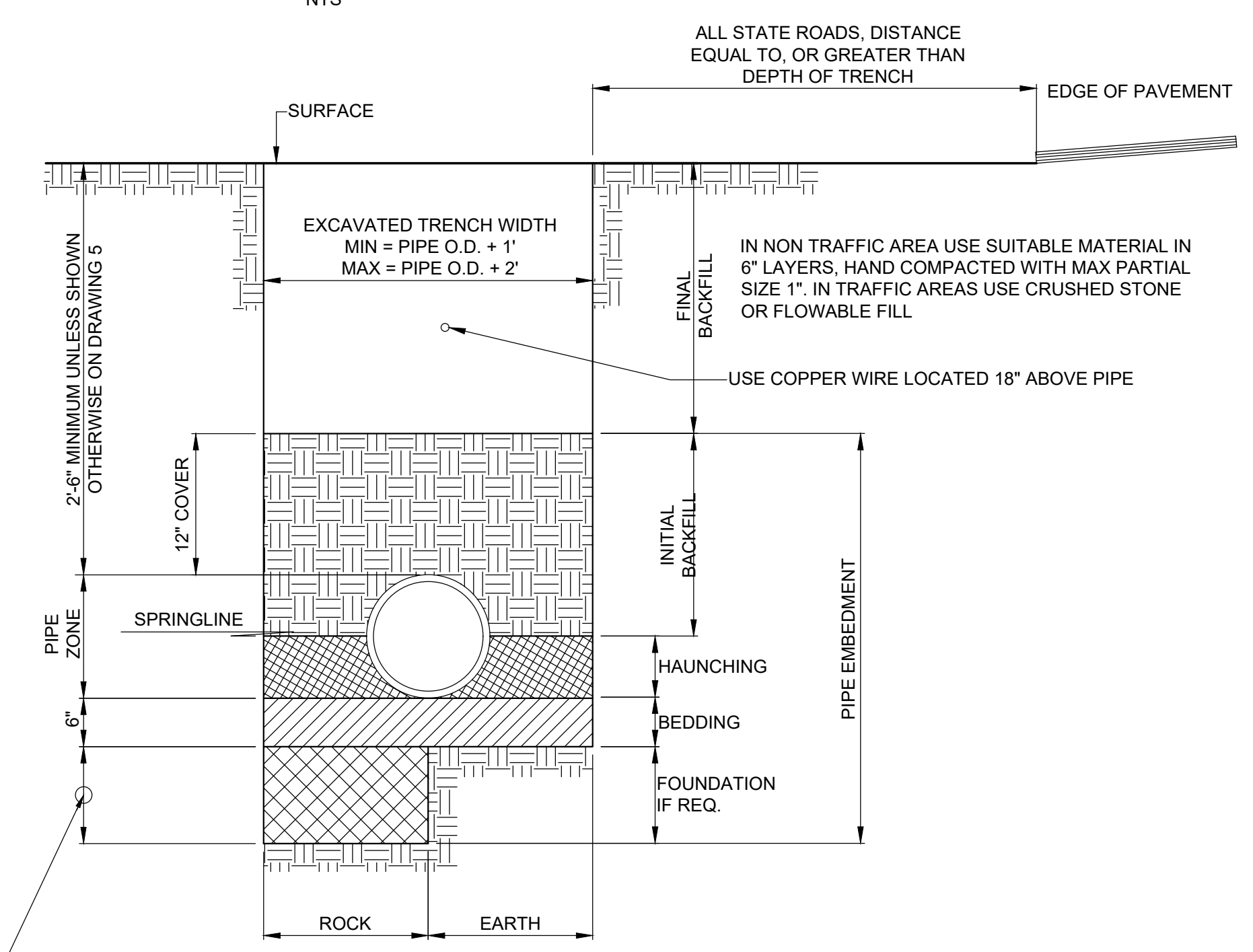
TABLE I

D	T	H
INSIDE DIAM. PIPE	VERTICAL TANGENT	HEIGHT OF INVERT
8"	2 1/2"	6 1/2"
10"	3"	8"
12"	3 1/2"	9 1/2"
15"	4 1/2"	12"
18"	5 1/2"	14 1/2"
21"	6 1/2"	17"
24"	7 1/2"	19 1/2"
30"	9"	24"
36"	11"	29"

NOTE: "H" & "T" DIMENSIONS APPLY AT BOTH THE UPSTREAM & DOWNSTREAM EDGE OF M.H.

TABLE II
GOVERNING DIMENSIONS FOR MANHOLES

D-PIPE SIZE	ANGLE	BASE DIAMETER	R
8" - 12"	0° TO 90°	4"	1' - 6"
15"	0° TO 60°	4"	1' - 10"
15"	60° TO 90°	4"	1' - 10"
18"	0° TO 60°	4"	2' - 3"
18"	60° TO 90°	4"	1' - 10"
21"	0° TO 60°	4"	2' - 7"
21"	60° TO 90°	5"	2' - 4"
24"	0° TO 45°	4"	3' - 0"
24"	45° TO 90°	5"	2' - 3"
27"	0° TO 45°	4"	3' - 3"
27"	45° TO 90°	5"	2' - 6"
30"	0° TO 60°	5"	3' - 9"
30"	60° TO 90°	6"	2' - 8"
36"	0° TO 30°	6"	4' - 6"



PVC PIPE INSTALLATION DETAIL
NTS

REVISIONS		DATE	BY	APPD
NO.	DESCRIPTIONS			

DESIGN	DRAWN	CHECKED	APPROVED
NH	JRH	NH	NH

WASTEWATER TREATMENT PLANT EXPANSION
BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

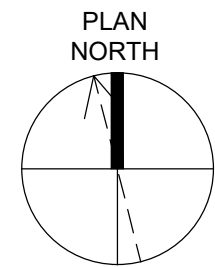
GENERAL DETAILS
SHEET 5

ENGINEERS, INC.
 3354 PERMIER HILL DRIVE, SUITE 140
 NASHVILLE, TN 37211
 615-834-8900

JOB NO.	N16003
ISSUE DATE	November 30, 2018
SCALE	NTS
DRAWING NO.	C-025

CTI PROJECT: N16003-01 (TN Dept. General Services TDEC) Bledsoe County Correctional Complex, DRAWING: CTI - C-026 - EROSION PREVENTION AND SEDIMENT CONTROL SHEET A (INITIAL) (572130V.2021/4/19 2:04PM), LAYOUT: C-026

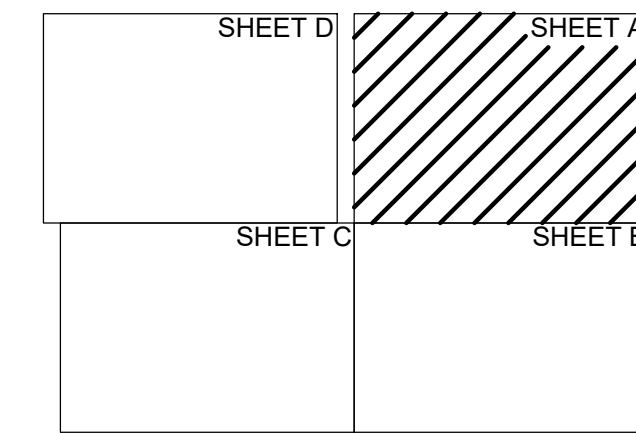
DATE OF PRINT: 2/18/2019 12:30 PM



0 50 100 150
SCALE: 1" = 50' - 0"

EROSION CONTROL PLAN LEGEND

	CHECK DAM		CONCRETE WASHOUT
	SILT FENCE		STABILIZATION WITH STRAW MULCH
	TUBES AND WATTLES		STABILIZATION WITH PERMANENT VEGETATION
	DISTURBANCE LIMIT		DEWATERING TREATMENT PRACTICES
	CONSTRUCTION EXIT		CATCH BASIN PROTECTION (TYPE D)
	SEDIMENT TRAP WITH ENHANCED ROCK CHECK DAM		



SHEET B

REVISIONS		DATE	BY	APPD
NO.	DESCRIPTIONS			

DESIGN	DRAWN	CHECKED	APPROVED
NH	JRH	NH	NH

WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06
 EROSION PREVENTION AND
 SEDIMENT CONTROL (INITIAL PHASE)
 SHEET A

JAMES NEAL HALL
 REGISTERED ENGINEER
 STATE OF TENNESSEE
 No. 15889
 EXPIRES 12/31/2018

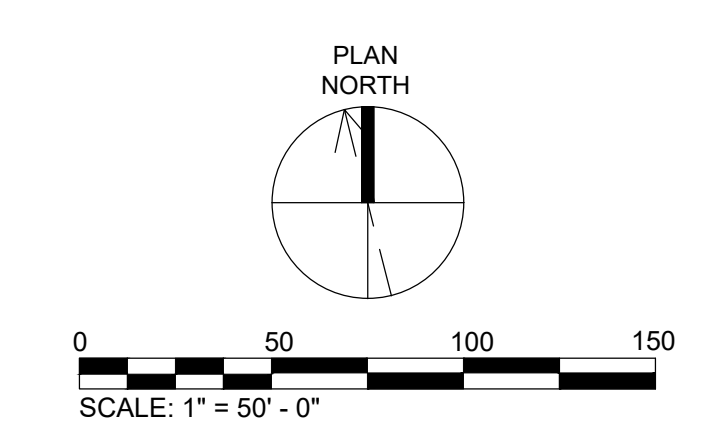
ENGINEERS, INC.
 3354 PERMIER HILL DRIVE, SUITE 140
 NASHVILLE, TN 37211
 615-834-8900

JOB NO.
 N16003
 ISSUE DATE
 November 30, 2018
 SCALE
 1" = 50' - 0"
 DRAWING NO.
 C-026

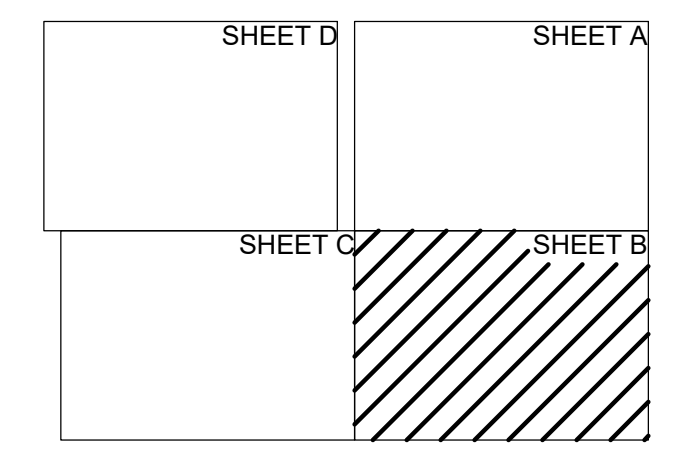
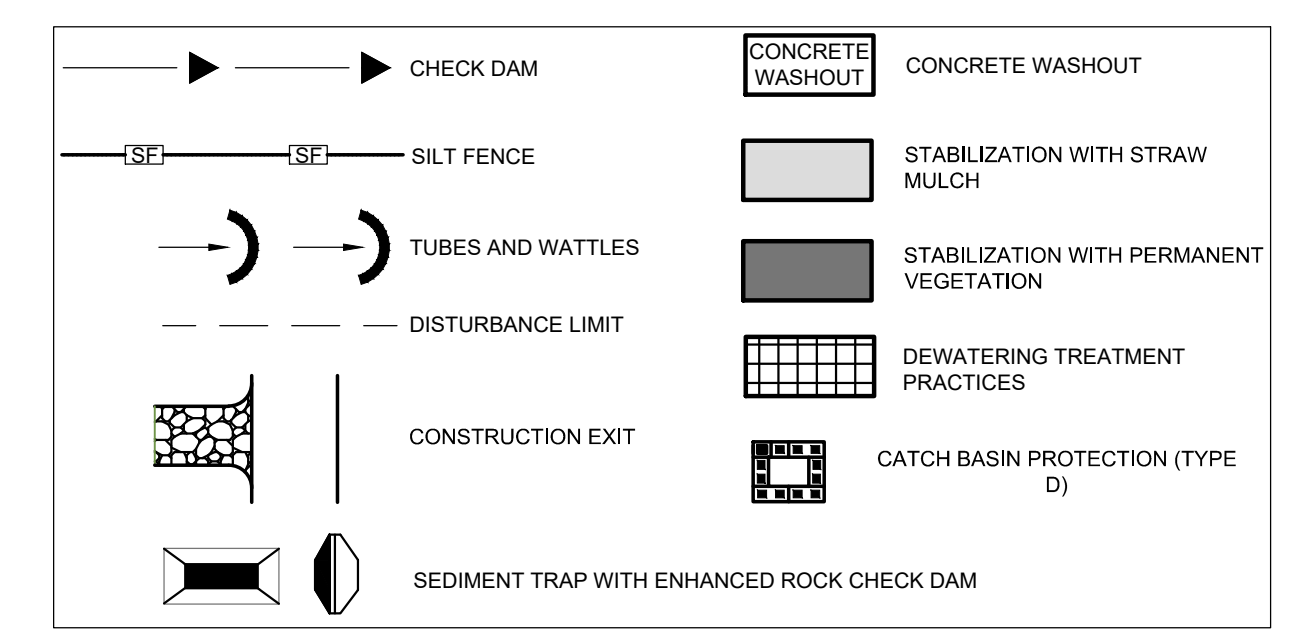
CTI PROJECT: N16003-01 (TN Dept. General Services TDEC) Bledsoe County Correctional Complex, DRAWING: CTI - C-027 - EROSION PREVENTION AND SEDIMENT CONTROL SHEET B (INITIAL) (572132x11/2319 9:46AM), LAYOUT: C-027

SHEET C

SHEET A



EROSION CONTROL PLAN LEGEND

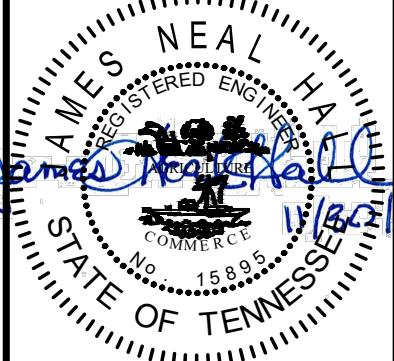
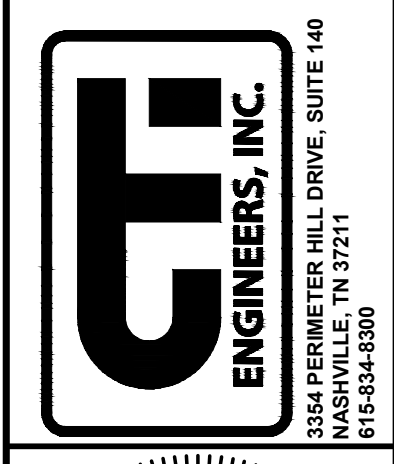


REVISIONS		DATE	BY	APPD
NO.	DESCRIPTIONS			

DESIGN: NH
 DRAWN: JRH
 CHECKED: NH
 APPROVED: NH

WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

EROSION PREVENTION AND
 SEDIMENT CONTROL (INITIAL PHASE)
 SHEET B



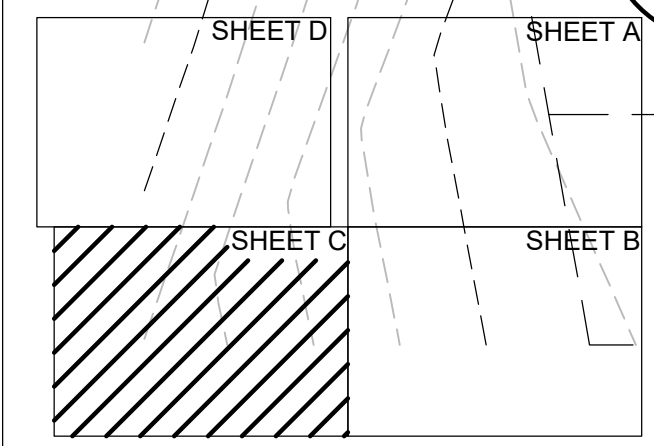
JOB NO.
N16003

ISSUE DATE
November 30, 2018

SCALE
1" = 50' - 0"

DRAWING NO.
C-027

CTI PROJECT: N16003-01 (TN Dept. General Services TDEC) Bledsoe County Correctional Complex, DRAWING: CTI - C-028 - EROSION PREVENTION AND SEDIMENT CONTROL SHEET C (INITIAL) (5/21/2019 9:47AM), LAYOUT: C-028
 DATE OF PRINT: 2/14/2019 2:22 PM



EROSION CONTROL PLAN LEGEND

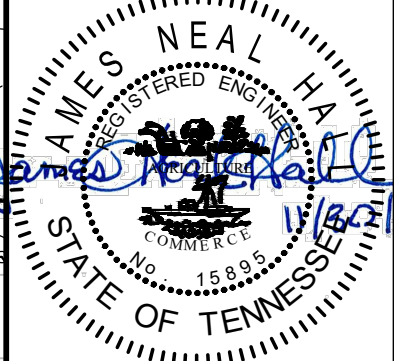
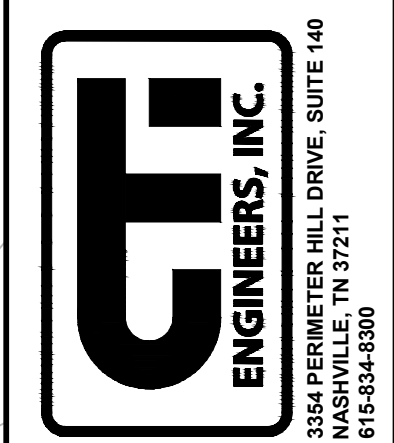
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	SILT FENCE		STABILIZATION WITH STRAW MULCH
	TUBES AND WATTLES		STABILIZATION WITH PERMANENT VEGETATION
	DISTURBANCE LIMIT		DEWATERING TREATMENT PRACTICES
	CONSTRUCTION EXIT		CATCH BASIN PROTECTION (TYPE D)
	SEDIMENT TRAP WITH ENHANCED ROCK CHECK DAM		

SHEET B

REVISIONS		DATE	BY	APPD
NO.	DESCRIPTIONS			

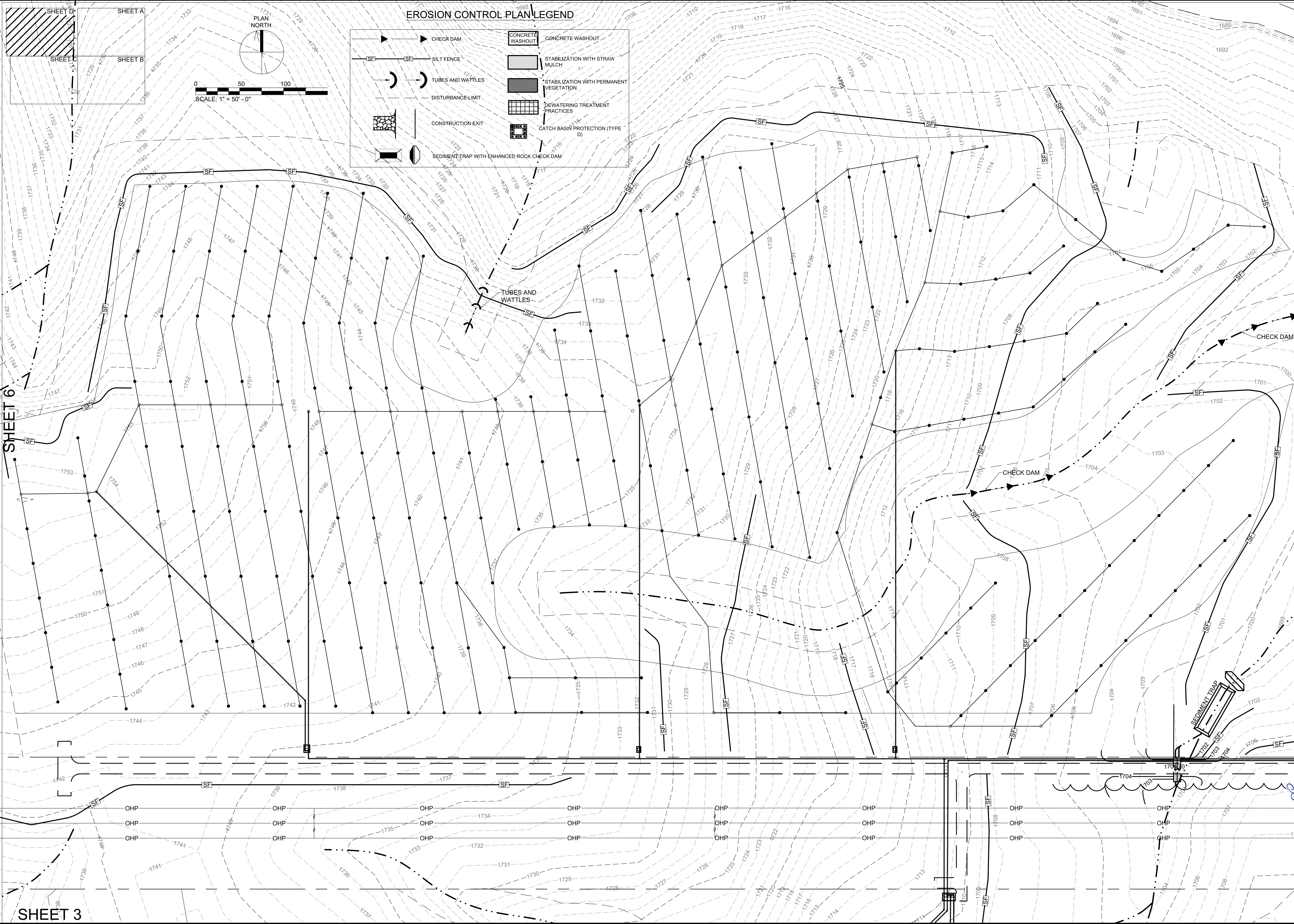
DESIGN: NH
 DRAWN: JRH
 CHECKED: NH
 APPROVED: NH

WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06



JOB NO. N16003
 ISSUE DATE November 30, 2018
 SCALE 1" = 50' - 0"
 DRAWING NO. C-028

CTI PROJECT: N16003-01 (TN Dept. General Services TDEC) Bledsoe County Correctional Complex, DRAWING: CTT - C-029 - EROSION PREVENTION AND SEDIMENT CONTROL, SHEET D (INITIAL) (572131\01\2319 9:48AM), LAYOUT: C-029



SHEET 6

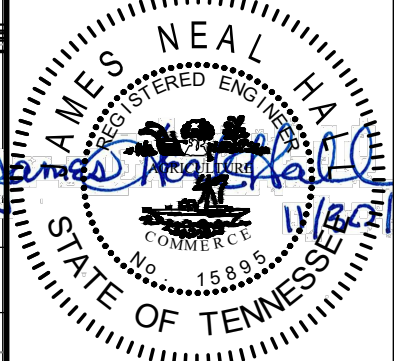
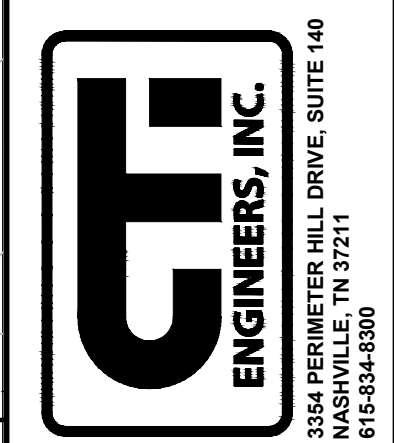
SHEET 3

REVISIONS	
NO.	DESCRIPTIONS

DESIGN: NH
 DRAWN: JRH
 CHECKED: NH
 APPROVED: NH

WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

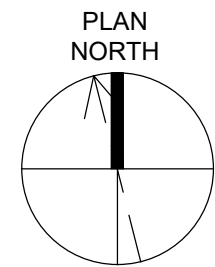
EROSION PREVENTION AND
 SEDIMENT CONTROL (INITIAL PHASE)
 SHEET D



JOB NO. N16003
 ISSUE DATE: November 30, 2018
 SCALE: 1" = 50' - 0"
 DRAWING NO. C-029

CTI PROJECT: N16003-01 (TN Dept. General Services TDEC) Bledsoe County Correctional Complex. DRAWING: CTI - C-030 - EROSION PREVENTION AND SEDIMENT CONTROL SHEET A (INTERIM) (571349.29/21/4/19 2:32PM). LAYOUT: C-030

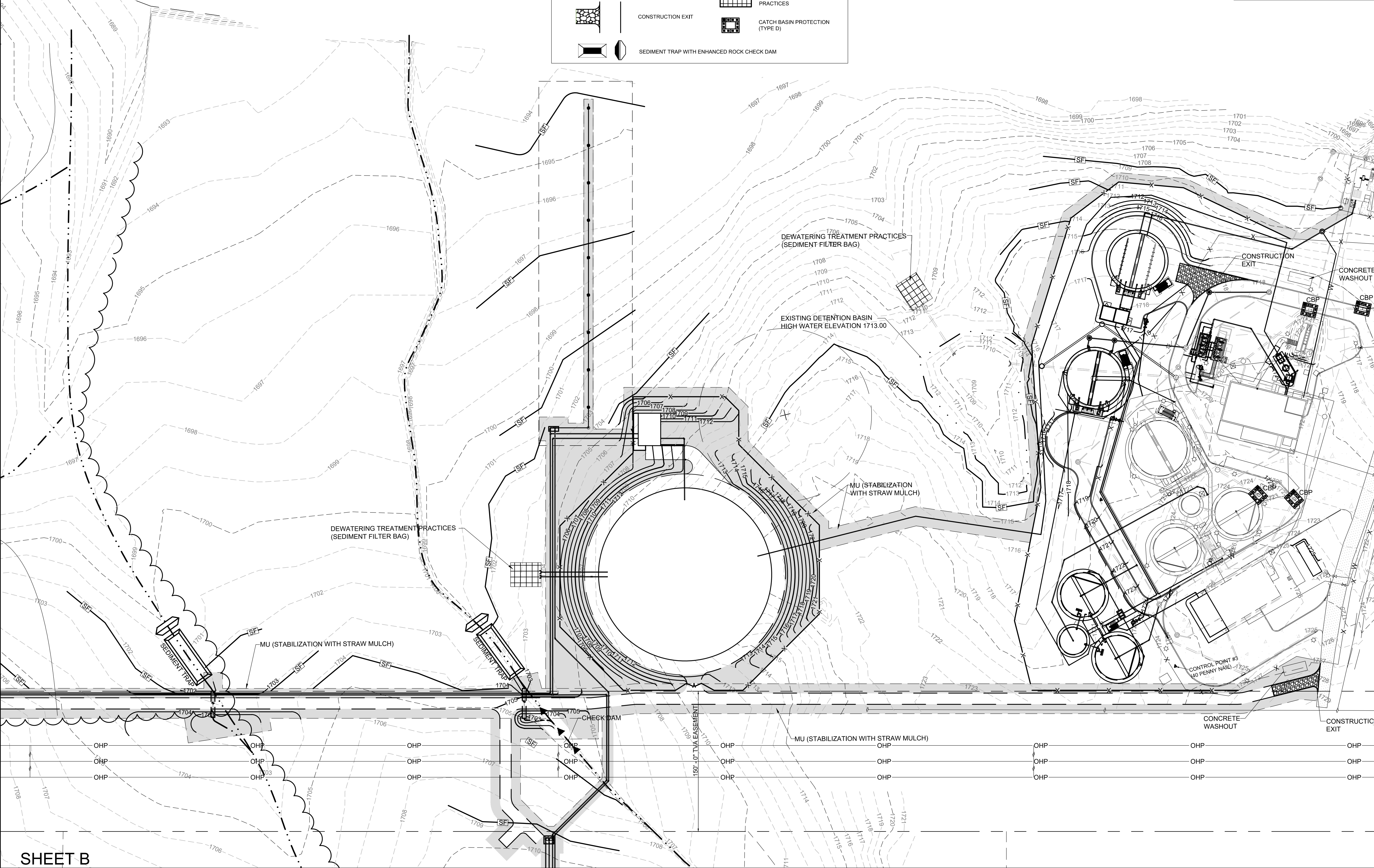
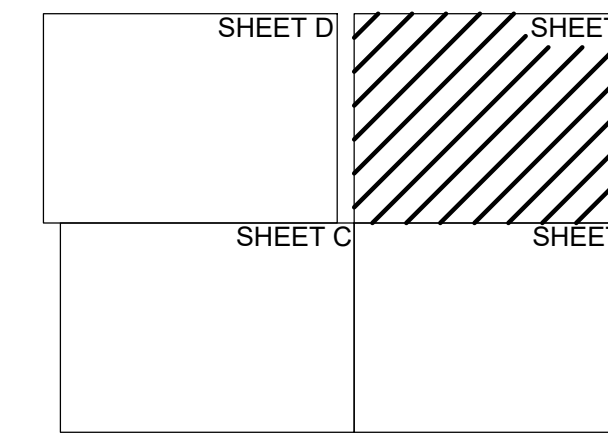
DATE OF PRINT: 2/18/2019 12:53 PM



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SCALE: 1" = 50' - 0"

EROSION CONTROL PLAN LEGEND

	CHECK DAM		CONCRETE WASHOUT
	SILT FENCE		STABILIZATION WITH STRAW MULCH
	TUBES AND WATTLES		STABILIZATION WITH PERMANENT VEGETATION
	DISTURBANCE LIMIT		DEWATERING TREATMENT PRACTICES
	CONSTRUCTION EXIT		CATCH BASIN PROTECTION (TYPE D)
	SEDIMENT TRAP WITH ENHANCED ROCK CHECK DAM		



SHEET B

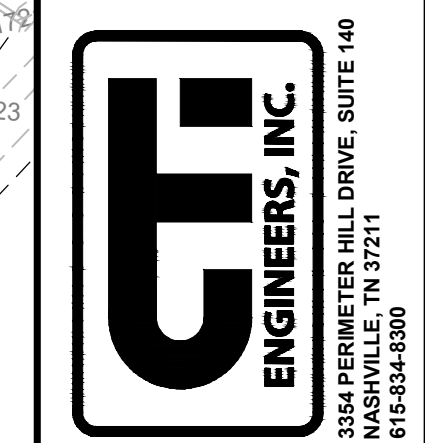
REVISIONS		DATE	BY	APPD
NO.	DESCRIPTIONS			

DESIGN	DRAWN	CHECKED	APPROVED
NH	JRH	NH	NH

WASTEWATER TREATMENT PLANT EXPANSION
BLEDSOE COUNTY CORRECTIONAL COMPLEX
PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06
EROSION PREVENTION AND
SEDIMENT CONTROL (INTERIM PHASE)
SHEET A



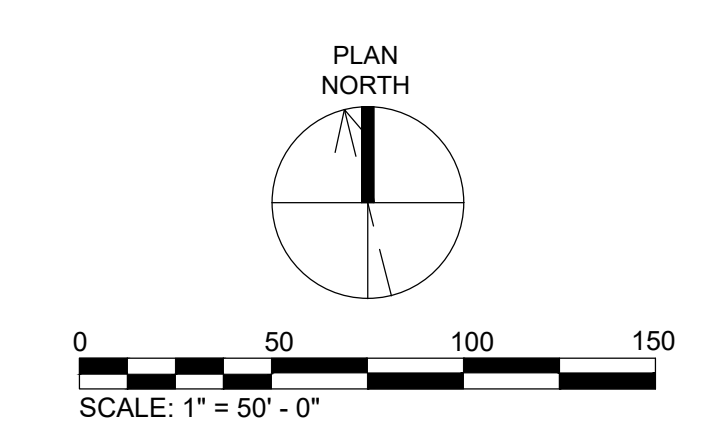
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ISSUE DATE November 30, 2018
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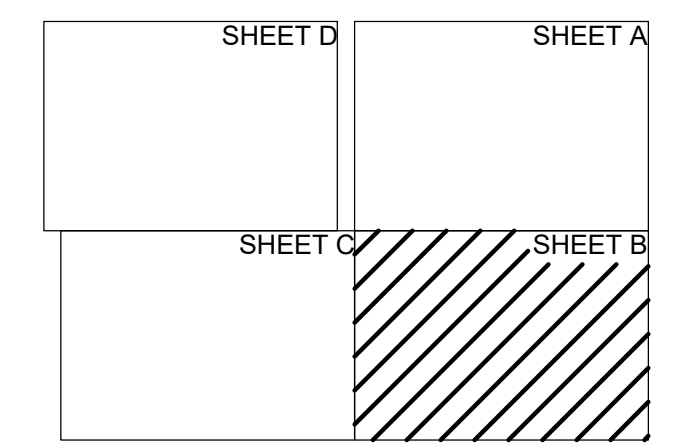
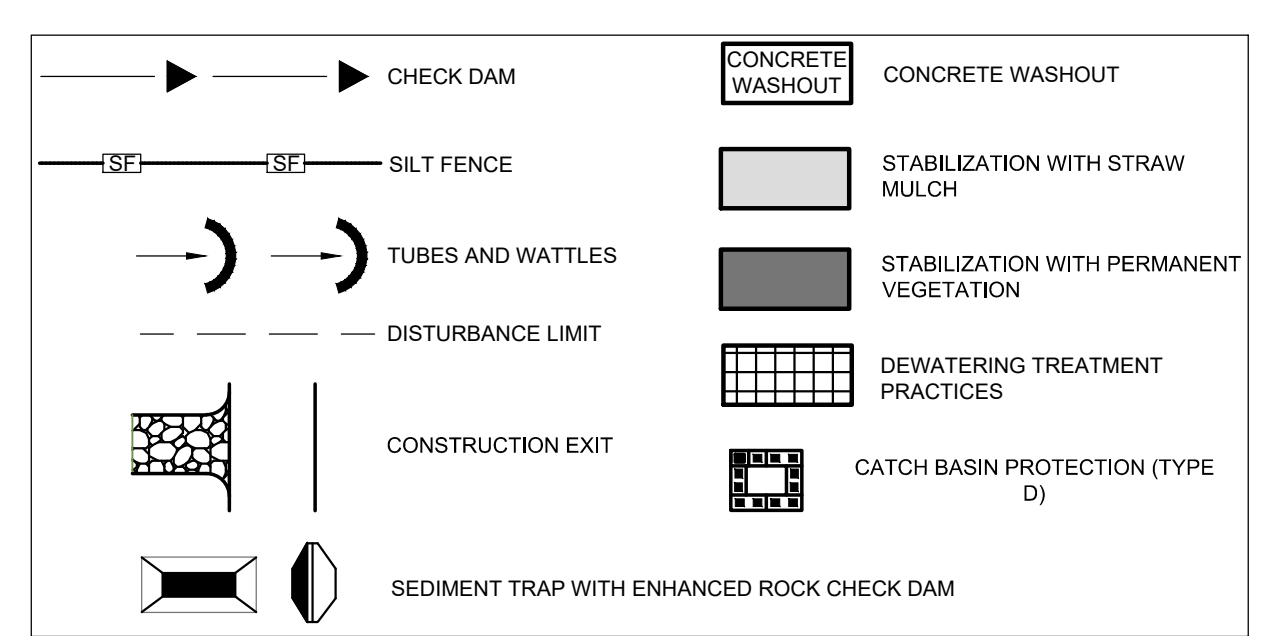
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SHEET C

SHEET A



EROSION CONTROL PLAN LEGEND

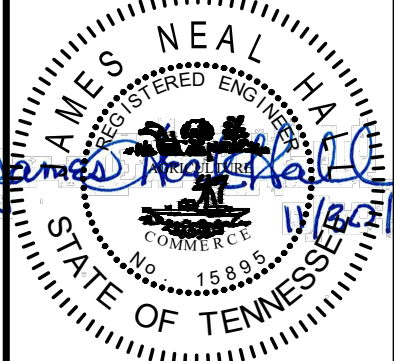
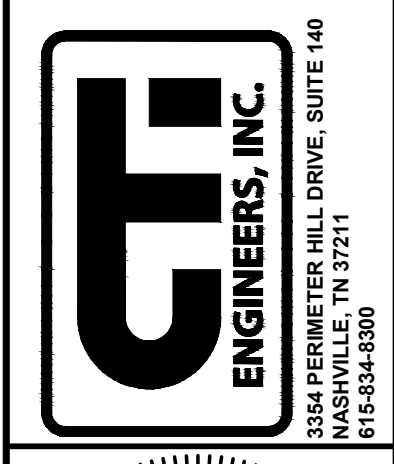


REVISIONS		DATE	BY	APPD
NO.	DESCRIPTIONS			

DESIGN: NH
 DRAWN: JRH
 CHECKED: NH
 APPROVED: NH

WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

EROSION PREVENTION AND
 SEDIMENT CONTROL (INTERIM PHASE)
 SHEET B



JOB NO.
 N16003

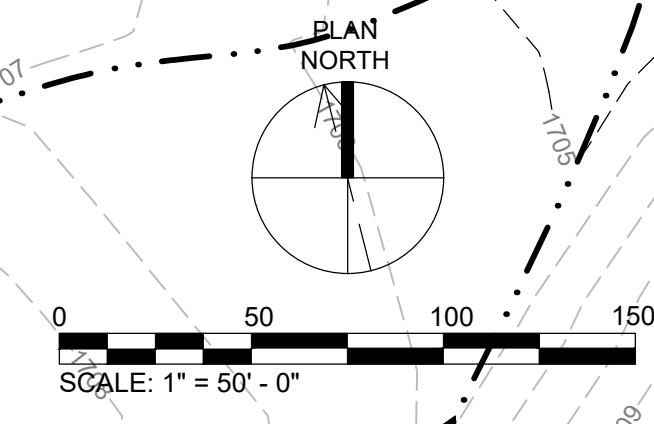
ISSUE DATE
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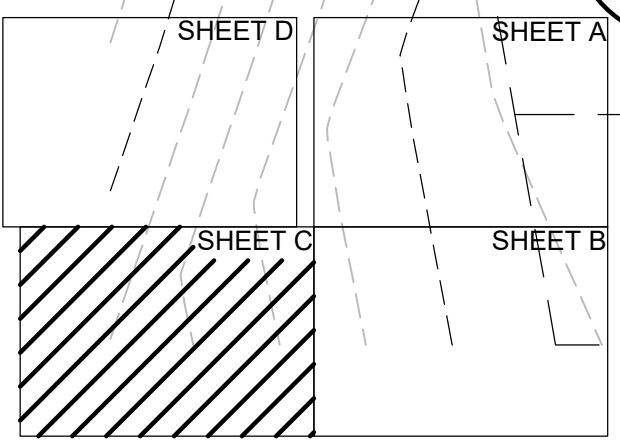
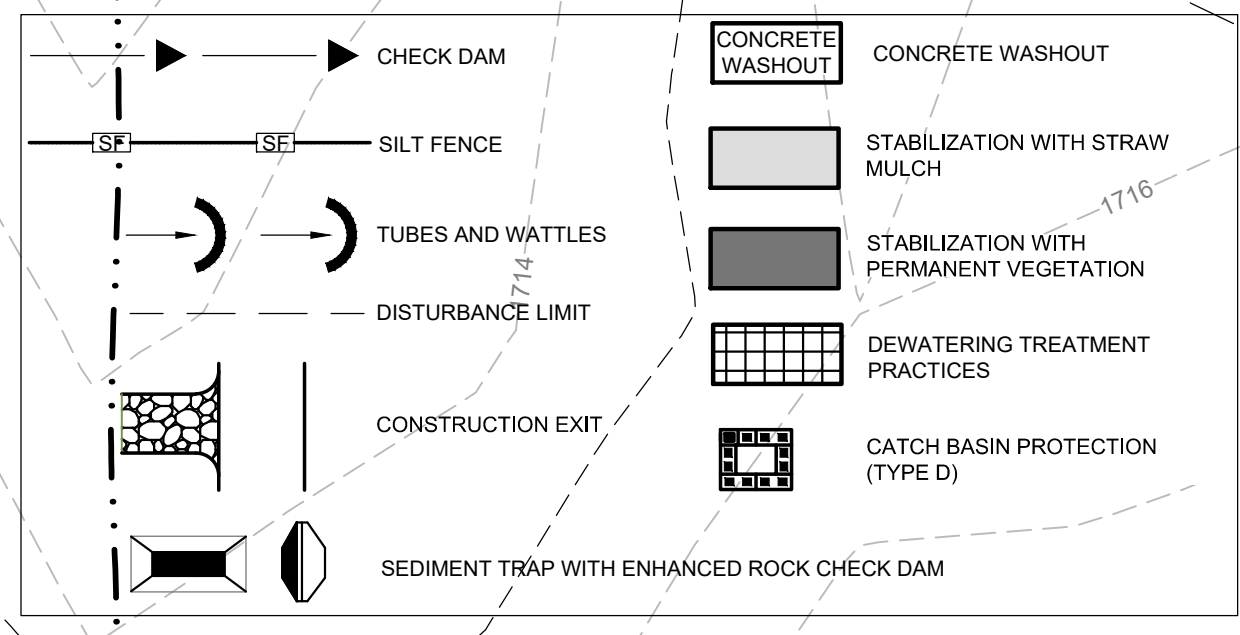
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 C-031

DATE OF PRINT: 2/18/2019 1:02 PM CTI PROJECT: N16003-01 (TN Dept. General Services TDEC) Bledsoe County Correctional Complex DRAWING: CTI - C-032 - EROSION PREVENTION AND SEDIMENT CONTROL SHEET C (INTERIM) (571404/2012/14/19 2:38PM) LAYOUT: C-032

SHEET D



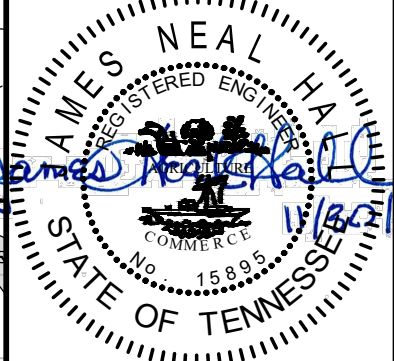
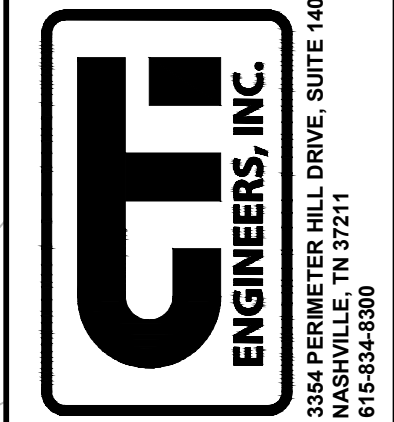
EROSION CONTROL PLAN LEGEND



SHEET B

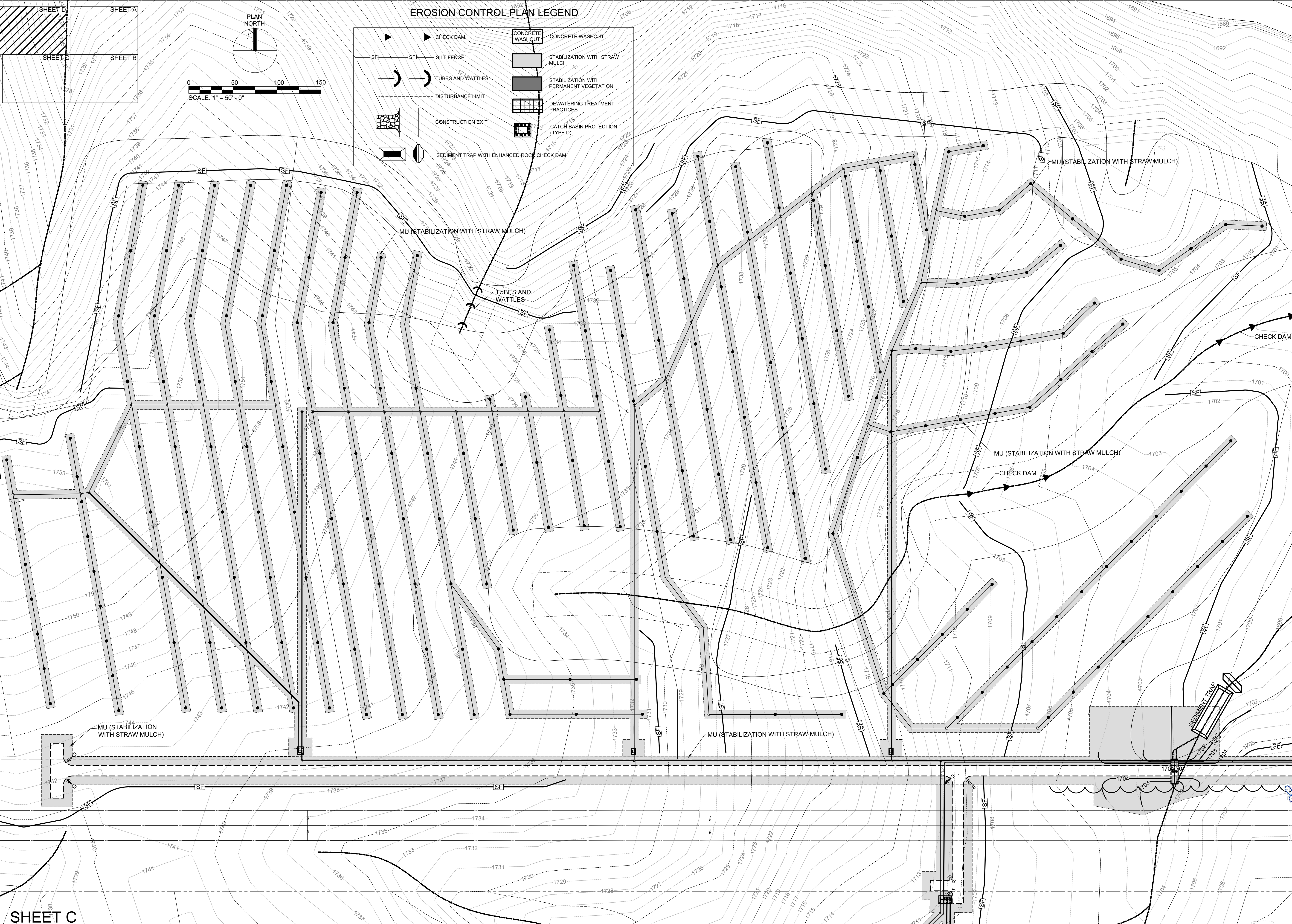
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NO.	DESCRIPTIONS	DATE	BY	DATE	BY	DATE	BY
NH							
JRH							
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NH							

WASTEWATER TREATMENT PLANT EXPANSION
BLED SOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLED SOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06
EROSION PREVENTION AND SEDIMENT CONTROL (INTERIM PHASE)
SHEET C



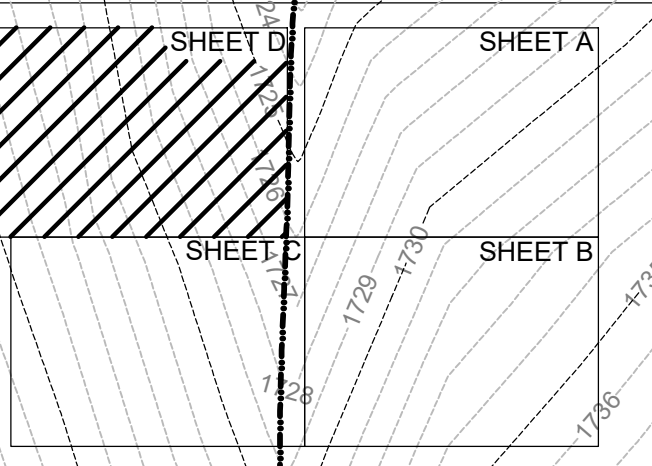
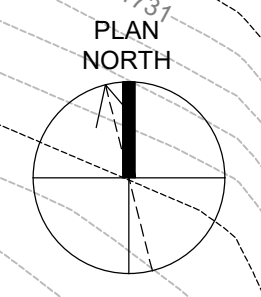
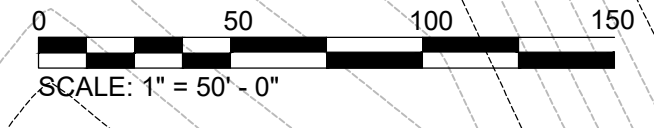
JOB NO. N16003
 ISSUE DATE November 30, 2018
 SCALE 1" = 50' - 0"
 DRAWING NO. C-032

DATE OF PRINT: 2/18/2019 1:06 PM C:\PROJECTS\N16003-01 (TN Dept. General Services TDEC) Bledsoe County Correctional Complex DRAWING: CTI - C-033 - EROSION PREVENTION AND SEDIMENT CONTROL SHEET D (INTERIM) (57140526/2/14/19 2:38PM) LAYOUT: C-033



EROSION CONTROL PLAN LEGEND

- CHECK DAM
- CONCRETE WASHOUT
- STABILIZATION WITH STRAW MULCH
- STABILIZATION WITH PERMANENT VEGETATION
- DEWATERING TREATMENT PRACTICES
- CATCH BASIN PROTECTION (TYPE D)
- SILT FENCE
- TUBES AND WATTLES
- DISTURBANCE LIMIT
- CONSTRUCTION EXIT
- SEDIMENT TRAP WITH ENHANCED ROCK CHECK DAM

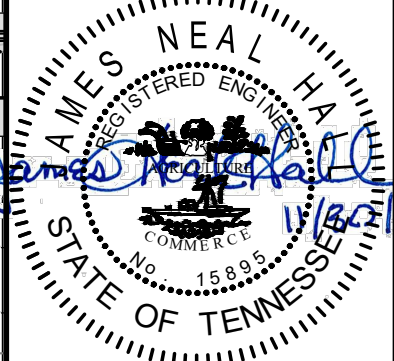
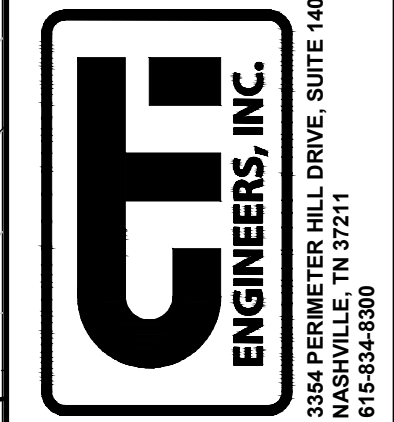


REVISIONS	
NO.	DESCRIPTIONS

DESIGN	DATE	BY	APPD
NH			
DRAWN			
CHECKED			
APPROVED			

WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

EROSION PREVENTION AND SEDIMENT CONTROL (INTERIM PHASE)
 SHEET D

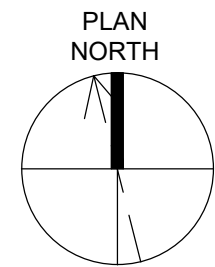


JOB NO. N16003
ISSUE DATE November 30, 2018
SCALE 1" = 50' - 0"
DRAWING NO. C-033

SHEET C

CTI PROJECT: N16003-01 (TN Dept. General Services, TDEC) Bledsoe County Correctional Complex, DRAWING: CTI - C-034 - EROSION PREVENTION AND SEDIMENT CONTROL SHEET A (FINAL) (572153v132141419 2:49PM), LAYOUT: C-034

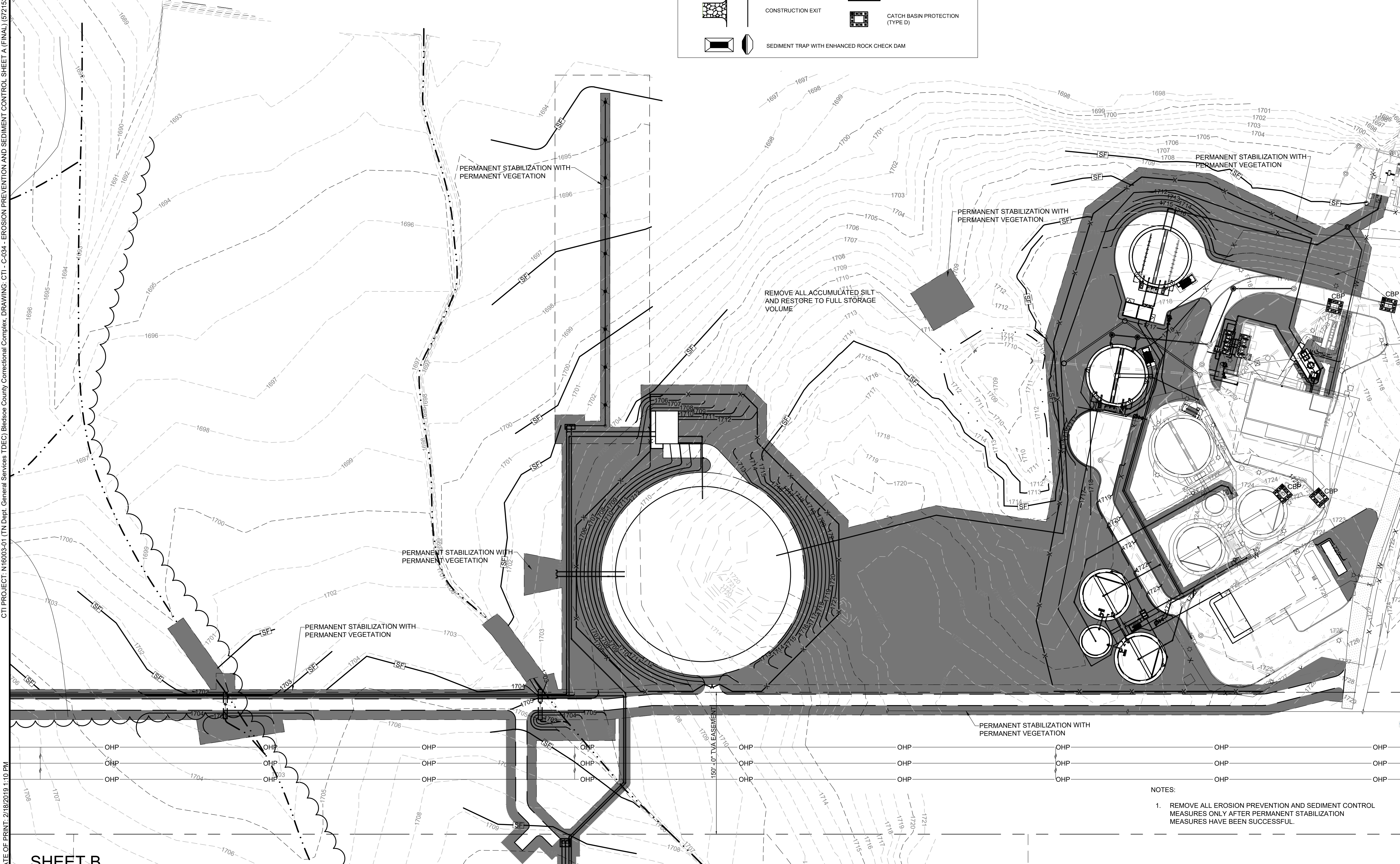
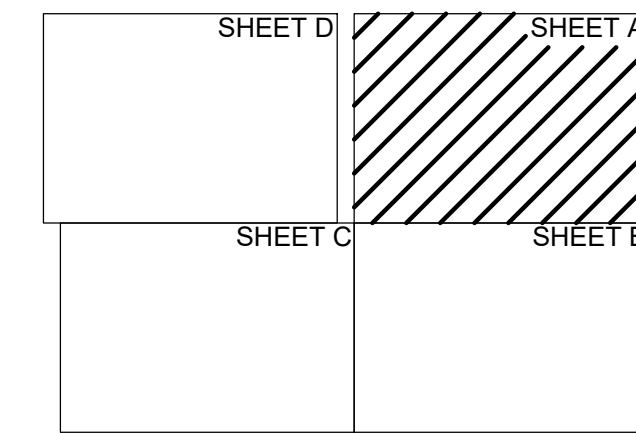
DATE OF PRINT: 2/18/2019 1:10 PM



0 50 100 150
SCALE: 1" = 50' - 0"

EROSION CONTROL PLAN LEGEND

	CHECK DAM		CONCRETE WASHOUT
	SILT FENCE		STABILIZATION WITH STRAW MULCH
	TUBES AND WATTLES		STABILIZATION WITH PERMANENT VEGETATION
	DISTURBANCE LIMIT		DEWATERING TREATMENT PRACTICES
	CONSTRUCTION EXIT		CATCH BASIN PROTECTION (TYPE D)
	SEDIMENT TRAP WITH ENHANCED ROCK CHECK DAM		

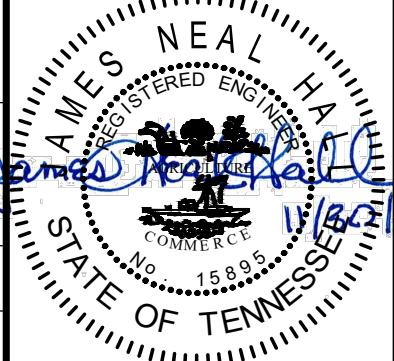
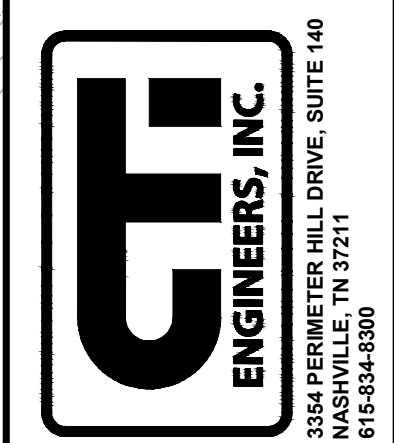


REVISIONS	
NO.	DESCRIPTIONS

DESIGN: NH
DRAWN: JRH
CHECKED: NH
APPROVED: NH

**WASTEWATER TREATMENT PLANT EXPANSION
BLEDSOE COUNTY CORRECTIONAL COMPLEX**
PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

**EROSION PREVENTION AND
SEDIMENT CONTROL (FINAL PHASE)**
SHEET A



NOTES:
1. REMOVE ALL EROSION PREVENTION AND SEDIMENT CONTROL MEASURES ONLY AFTER PERMANENT STABILIZATION MEASURES HAVE BEEN SUCCESSFUL.

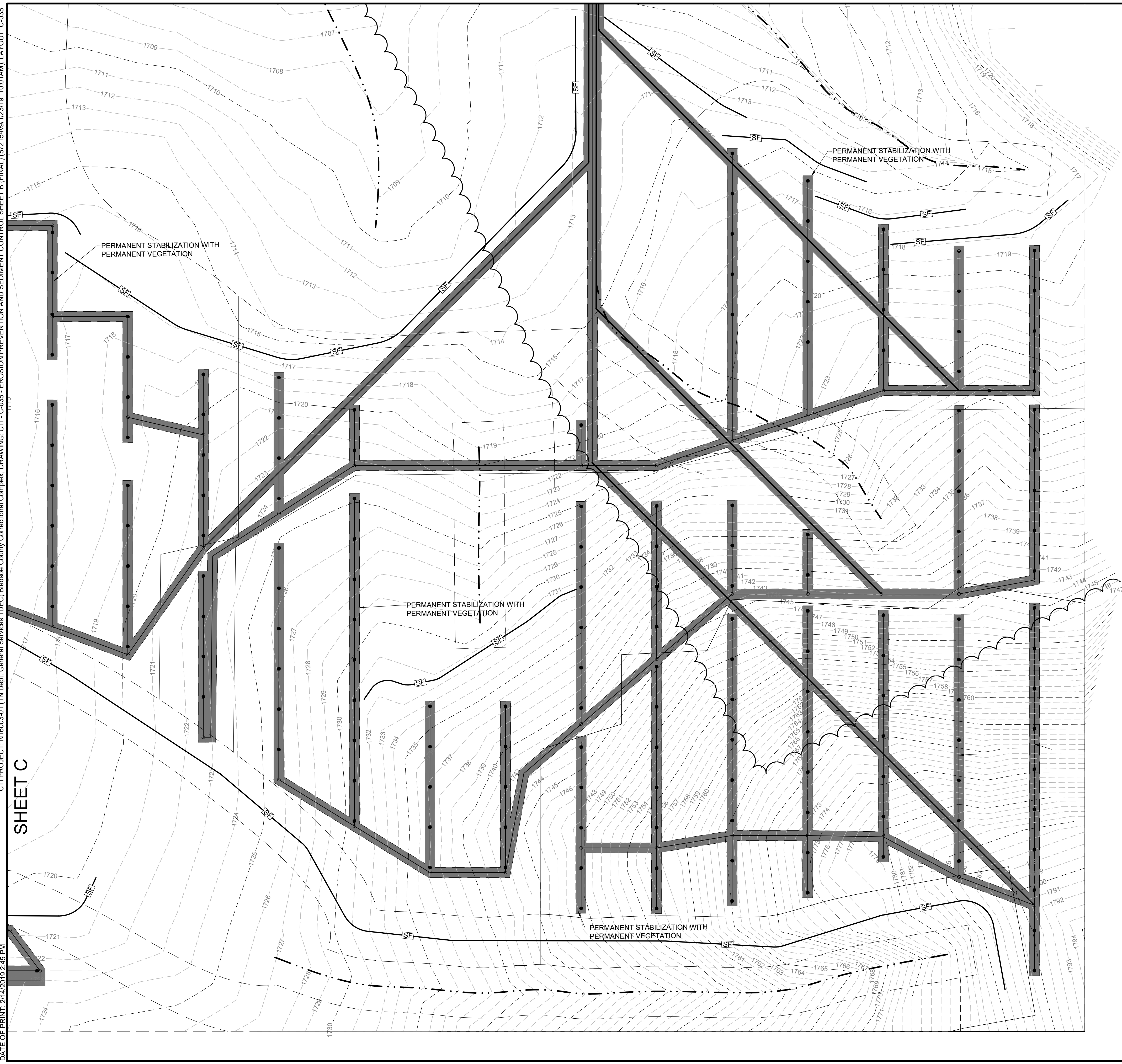
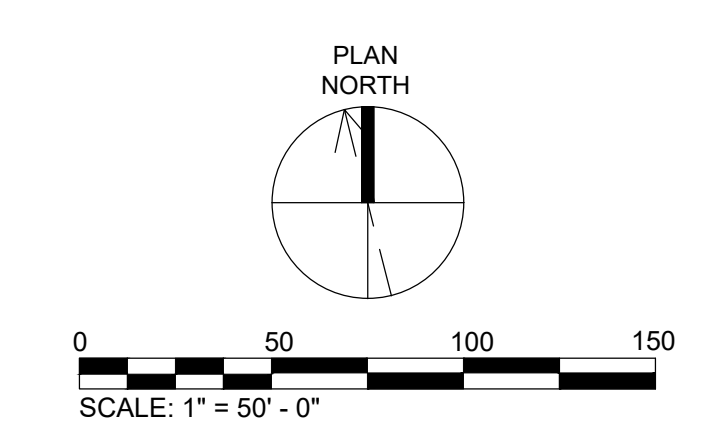
SHEET B

JOB NO. N16003
ISSUE DATE November 30, 2018
SCALE 1" = 50' - 0"
DRAWING NO. C-034

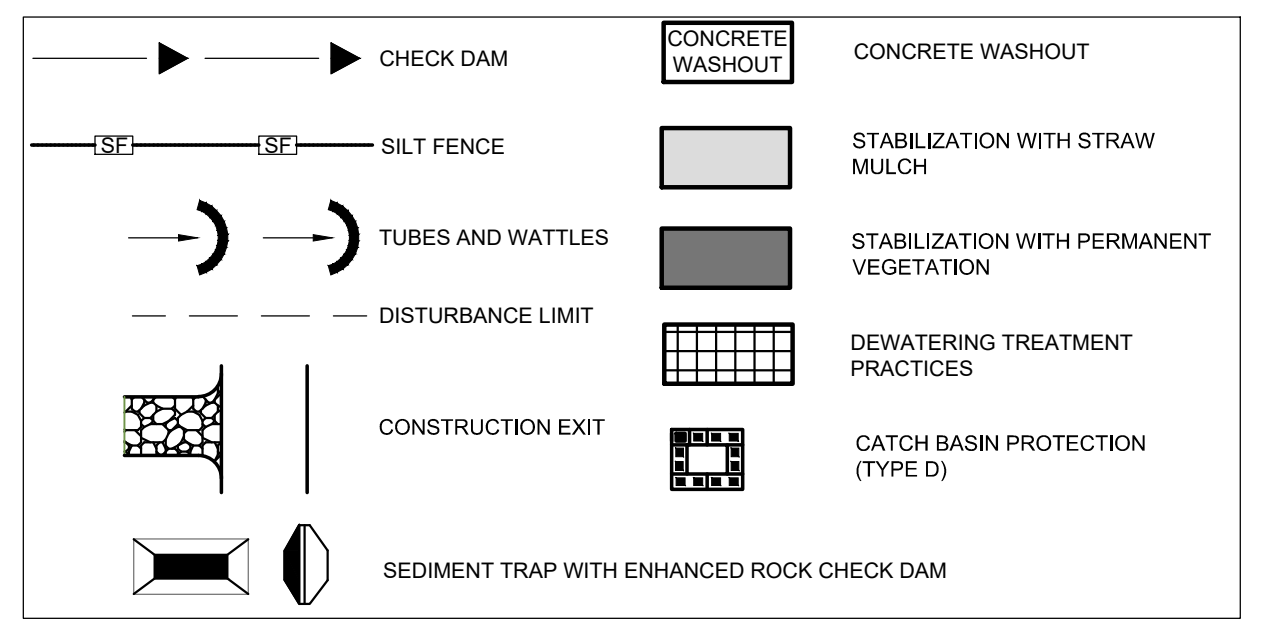
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 DATE OF PRINT: 2/14/2019 2:45 PM

SHEET C

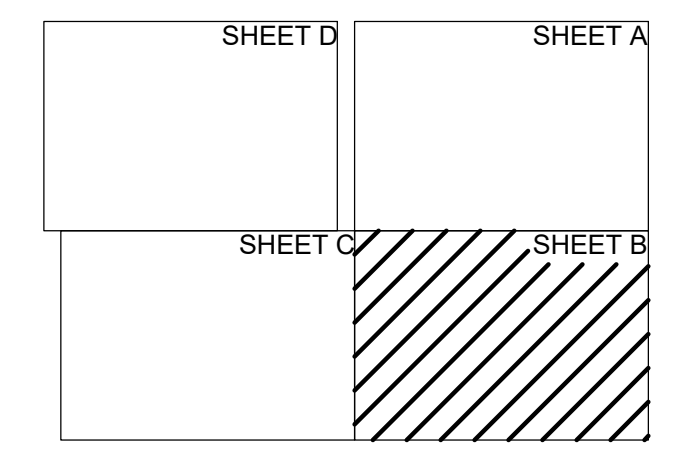
SHEET A



EROSION CONTROL PLAN LEGEND



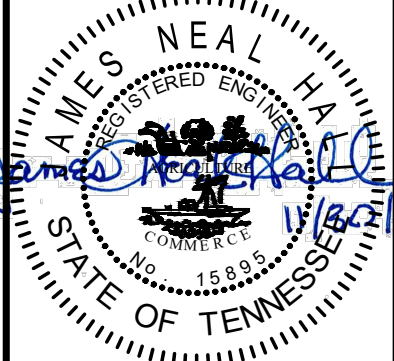
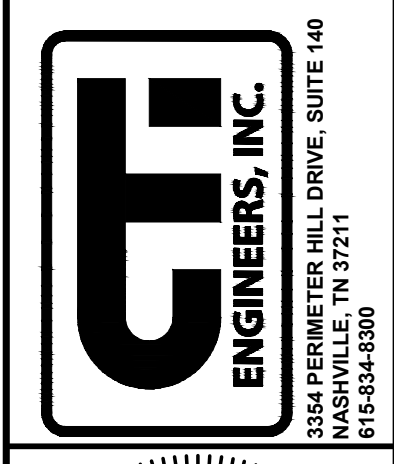
- NOTES:
- REMOVE ALL EROSION PREVENTION AND SEDIMENT CONTROL MEASURES ONLY AFTER PERMANENT STABILIZATION MEASURES HAVE BEEN SUCCESSFUL.



REVISIONS		DATE	BY	APPD
NO.	DESCRIPTIONS			

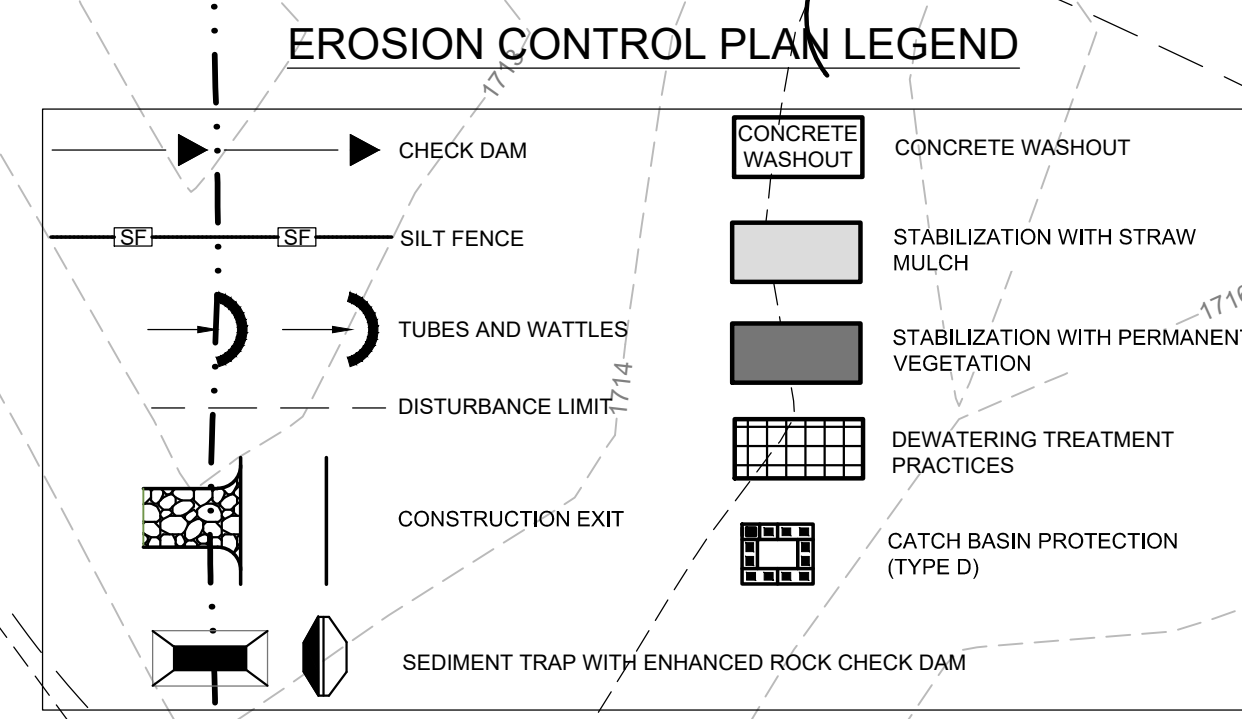
DESIGN: NH
 DRAWN: JRH
 CHECKED: NH
 APPROVED: NH

WASTEWATER TREATMENT PLANT EXPANSION
BLED SOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLED SOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06
EROSION PREVENTION AND SEDIMENT CONTROL (FINAL PHASE)
SHEET B



JOB NO.
 N16003
 ISSUE DATE
 November 30, 2018
 SCALE
 1" = 50' - 0"
 DRAWING NO.
 C-035

PERMANENT VEGETATION
SHEET D



- NOTES:
- REMOVE ALL EROSION PREVENTION AND SEDIMENT CONTROL MEASURES ONLY AFTER PERMANENT STABILIZATION MEASURES HAVE BEEN SUCCESSFUL.

REVISIONS		DATE	BY	APPD
NO.	DESCRIPTIONS			

DESIGN		DRAWN		CHECKED		APPROVED	
NH	JRH	NH	NH	NH	NH	NH	NH

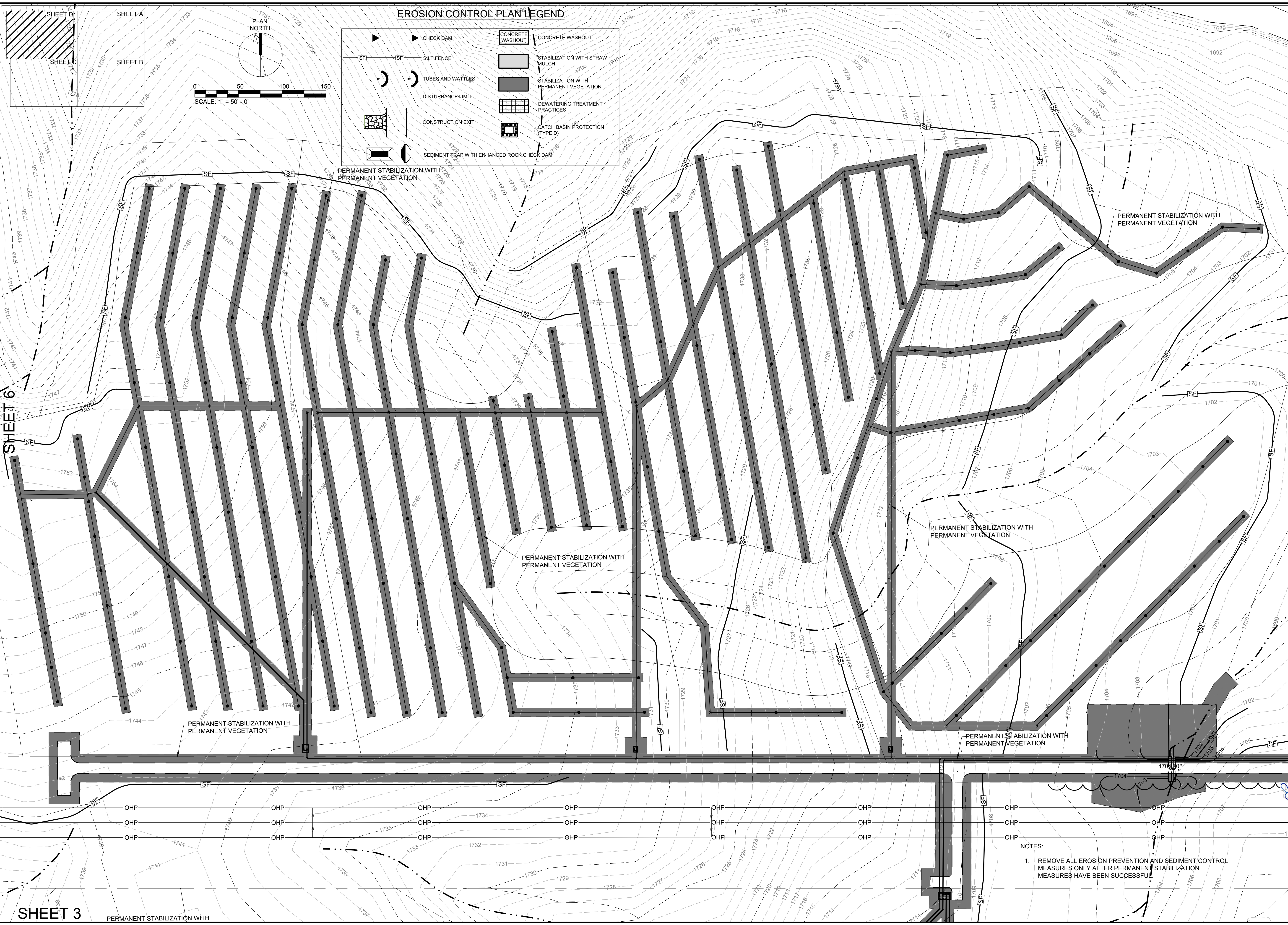
WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

ENGINEERS, INC.
 3334 PERMIER HILL DRIVE, SUITE 140
 NASHVILLE, TN 37211
 615-834-8900

REGISTERED ENGINEER
 JAMES NEAL HARRIS
 STATE OF TENNESSEE
 No. 15889

JOB NO. N16003
 ISSUE DATE November 30, 2018
 SCALE 1" = 50' - 0"
 DRAWING NO. C-036

CTI PROJECT: N16003-01 (TN Dept. General Services TDEC) Bledsoe County Correctional Complex, DRAWING: CTI - C-037 - EROSION PREVENTION AND SEDIMENT CONTROL, SHEET D (FINAL) (5/21/2019 9:59AM), LAYOUT: C-037

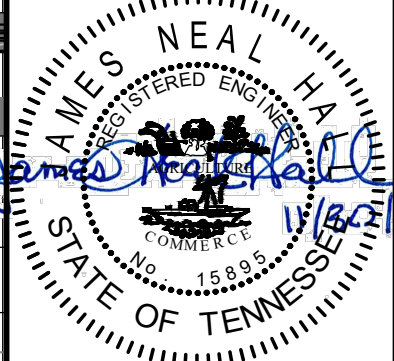
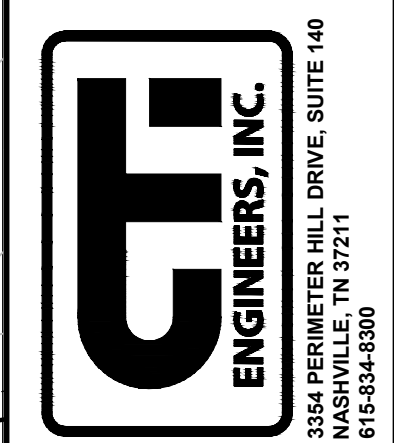


REVISIONS	
NO.	DESCRIPTIONS

DESIGN	DATE BY	APPD
NH		
DRAWN		
JRH		
CHECKED		
NH		
APPROVED		
NH		

WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

EROSION PREVENTION AND
 SEDIMENT CONTROL (FINAL PHASE)
 SHEET D



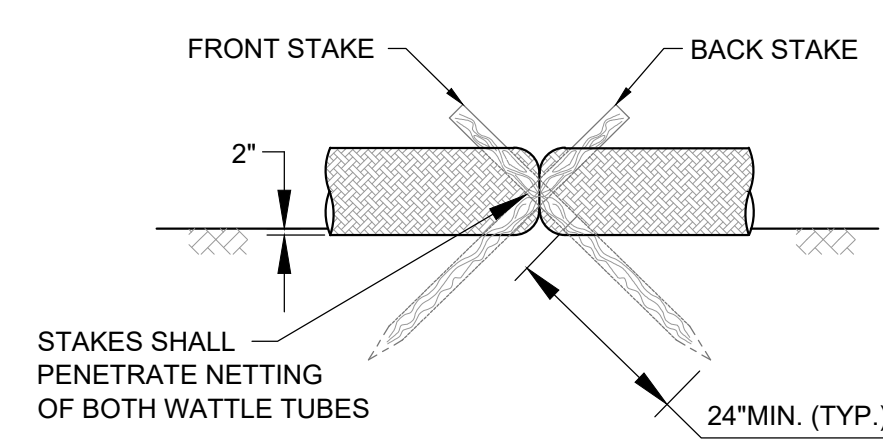
JOB NO.	N16003
ISSUE DATE	November 30, 2018
SCALE	1" = 50' - 0"
DRAWING NO.	C-037

NOTES:
 1. REMOVE ALL EROSION PREVENTION AND SEDIMENT CONTROL MEASURES ONLY AFTER PERMANENT STABILIZATION MEASURES HAVE BEEN SUCCESSFUL.

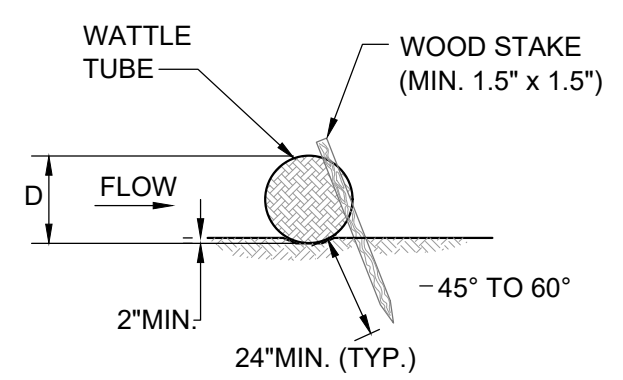
CTI PROJECT: N16003-01 (TN Dept. General Services TDEC) Bledsoe County Correctional Complex DRAWING: C-038 - EROSION DETAILS 1 OF 3 (5/27/2019 12:14:19 3:09PM) LAYOUT: C-038
 DATE OF PRINT: 2/18/2019 9:31 AM

STABILIZATION WITH PERMANENT VEGETATION (PS)			
ZONE	BEST	MARGINAL	PREFERRED RATE/MIX (LB/AC PLS)
>2500 FT ELEVATION; STEEP SLOPES	MAR 20 - APR 30	AUG 15 - AUG 30 MAR 1 - MAR 20 APR 20 - JUNE 15	15 BROWN TOP MILLET* (NURSE CROP) 5 PURPLETOP 10 LITTLE BLUESTEM 10 INDIAN GRASS 2 BLACK-EYED SUSAN 0.5 MONARDA (BERGAMOT) 4 MARYLAND SENNA
<2500 FT ELEVATION; STEEP SLOPES	AUG 15 - SEPT 1 MAR 1 - APR 1	SEPT 1 - SEPT 15 APR 1 - JUNE 10	15 BROWN TOP MILLET* (NURSE CROP) 4 PURPLETOP 10 LITTLE BLUESTEM 10 BROOMSEDGE 2 PARTRIDGE PEA 2 BLACK-EYED SUSAN 0.5 MONARDA (BERGAMOT)
>2500 FT ELEVATION; SHALLOW SOILS	MAR 20 - APR 20	AUG 15 - AUG 30 MAR 5 - MAR 20 APR 20 - JUNE 15	15 BROWN TOP MILLET* (NURSE CROP) 4 PURPLETOP 10 LITTLE BLUESTEM 10 INDIAN GRASS 2 BLACK-EYED SUSAN 2 PARTRIDGE PEA 0.5 MONARDA (BERGAMOT)
<2500 FT ELEVATION; SHALLOW SOILS	AUG 15 - SEPT 1 MAR 1 - APR 1	SEPT 1 - SEPT 15 APR 1 - JUNE 10	15 BROWN TOP MILLET* (NURSE CROP) 4 PURPLETOP 10 LITTLE BLUESTEM 10 INDIAN GRASS 2 BLACK-EYED SUSAN 2 PARTRIDGE PEA 0.5 MONARDA (BERGAMOT)
>2500 FT ELEVATION; MODERATE SLOPES	MAR 20 - APR 20	AUG 15 - AUG 30 MAR 5 - MAR 20 APR 20 - JUNE 15	15 BROWN TOP MILLET* (NURSE CROP) 4 PURPLETOP 10 LITTLE BLUESTEM 10 INDIAN GRASS 2 BLACK-EYED SUSAN 2 PARTRIDGE PEA 0.5 MONARDA (BERGAMOT)
<2500 FT ELEVATION; MODERATE SLOPES	AUG 15 SEPT -1 MAR 1 - APR 1	SEPT 1 - SEPT 15 APR 1 - JUNE 10	15 BROWN TOP MILLET* (NURSE CROP) 45 RED FESCUE* 45 HARD FESCUE* 25 CHEWING FESCUE*
>2500 FT ELEVATION; HIGH MAINTENANCE	MAR 20 - APR 20	AUG 15 - AUG 30 MAR 5 - MAR 20 APR 20 - JUNE 15	
<2500 FT ELEVATION; HIGH MAINTENANCE	AUG 15 - SEPT 1 MAR 1 - APR 1	SEPT 1 - SEPT 15 APR 1 - JUNE 10	

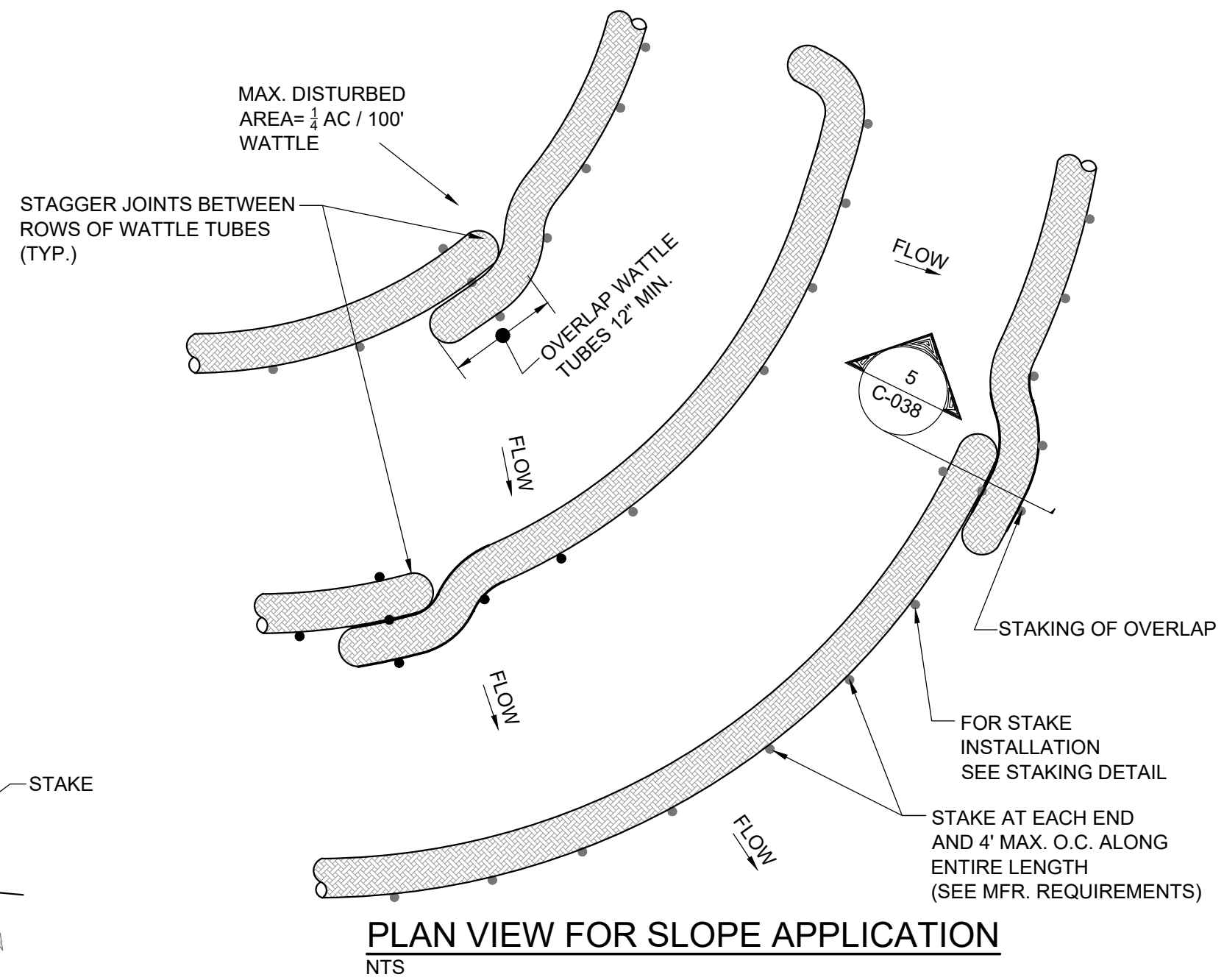
THE BOLD DATES ARE THE PREFERRED DATES FOR SEEDING. ALSO, HIGH MAINTENANCE AREAS INCLUDE LAWNS AND OTHER GRASSED AREAS THAT WILL BE MAINTAINED FOR AESTHETICS.
* NON NATIVE BUT DO NOT SPREAD



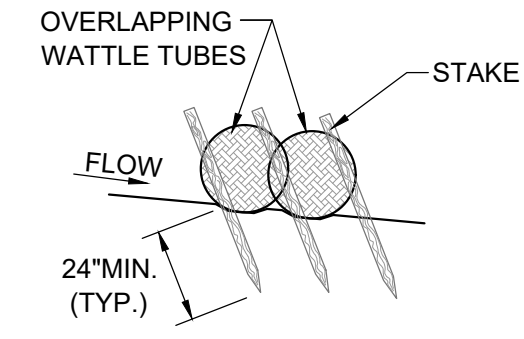
JOINT STAKING DETAIL
NTS



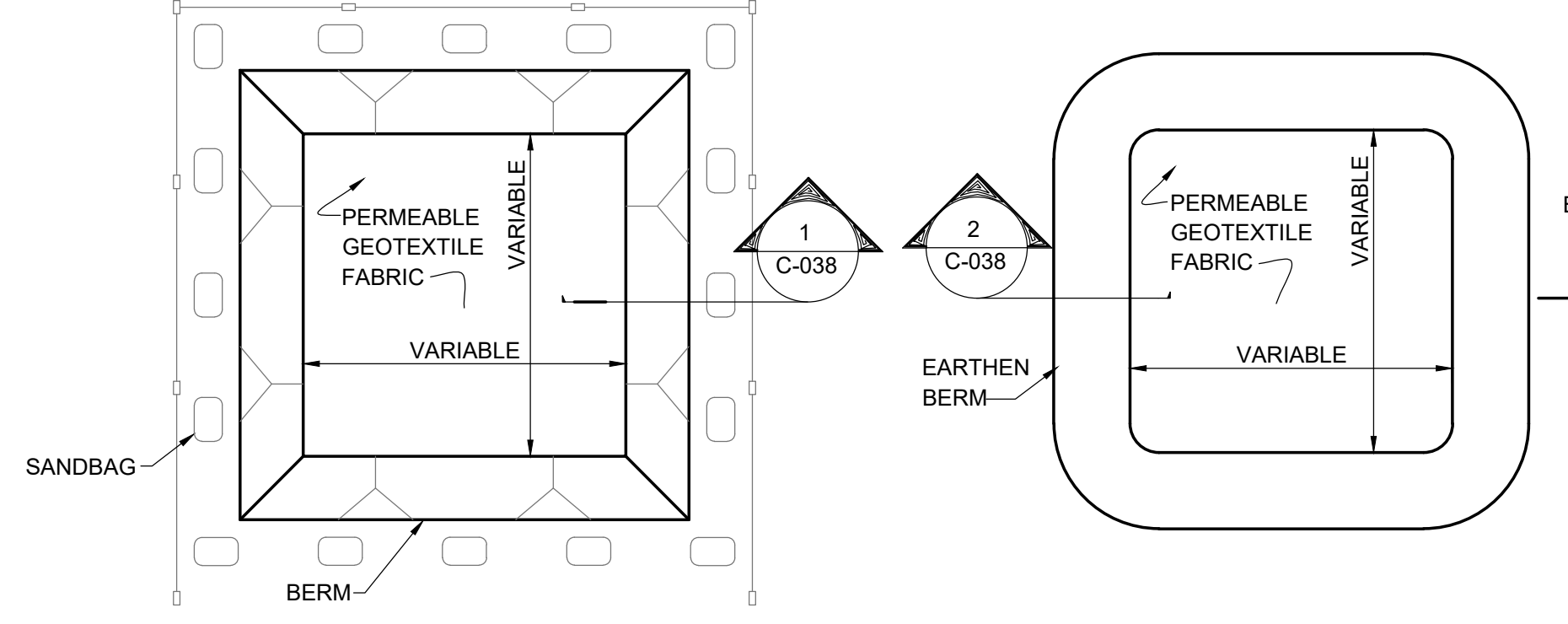
STAKING DETAIL
NTS



PLAN VIEW FOR SLOPE APPLICATION
NTS

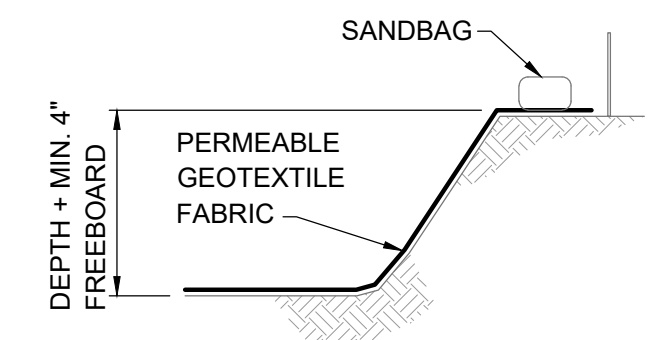


SECTION 5
C-038



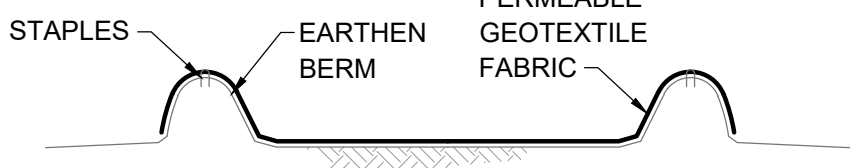
PLAN VIEW
NTS

PLAN VIEW
NTS



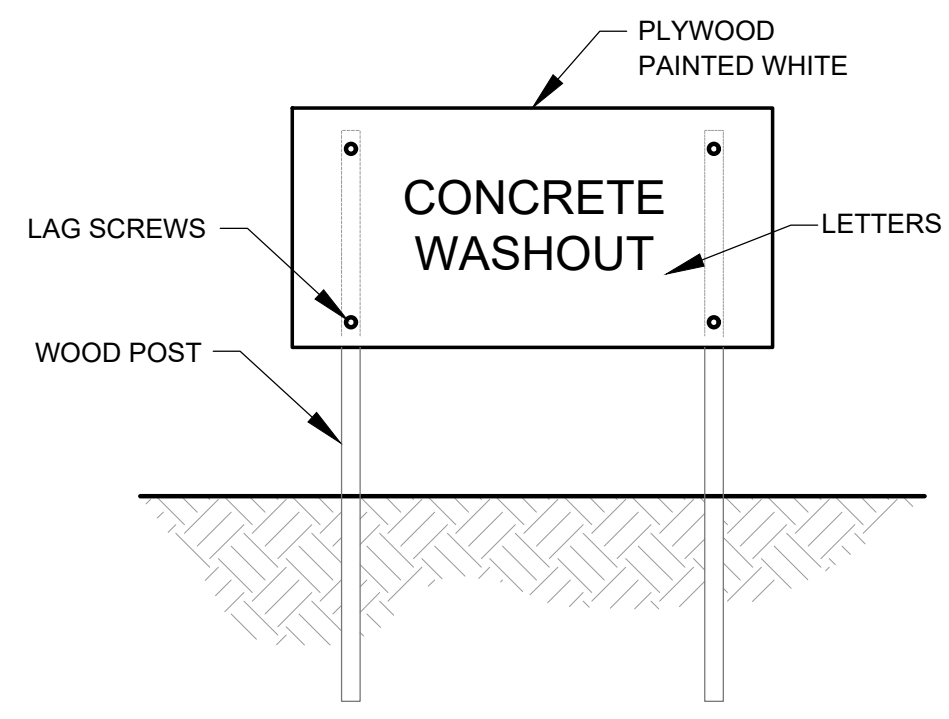
SECTION 1
C-038

TYPE "BELOW GRADE"



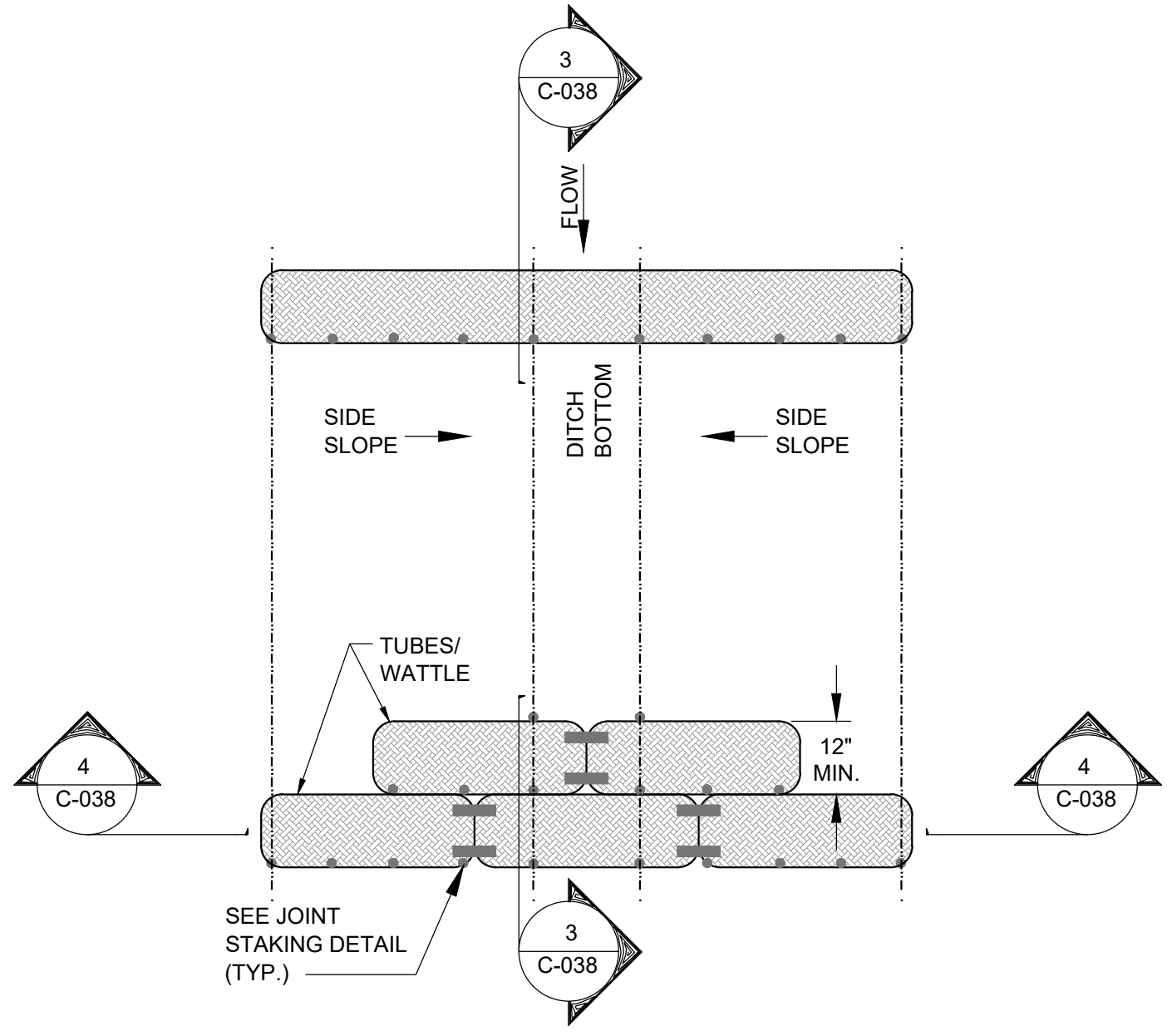
SECTION 2
C-038

TYPE "ABOVE GRADE" WITH EARTHEN BERMS



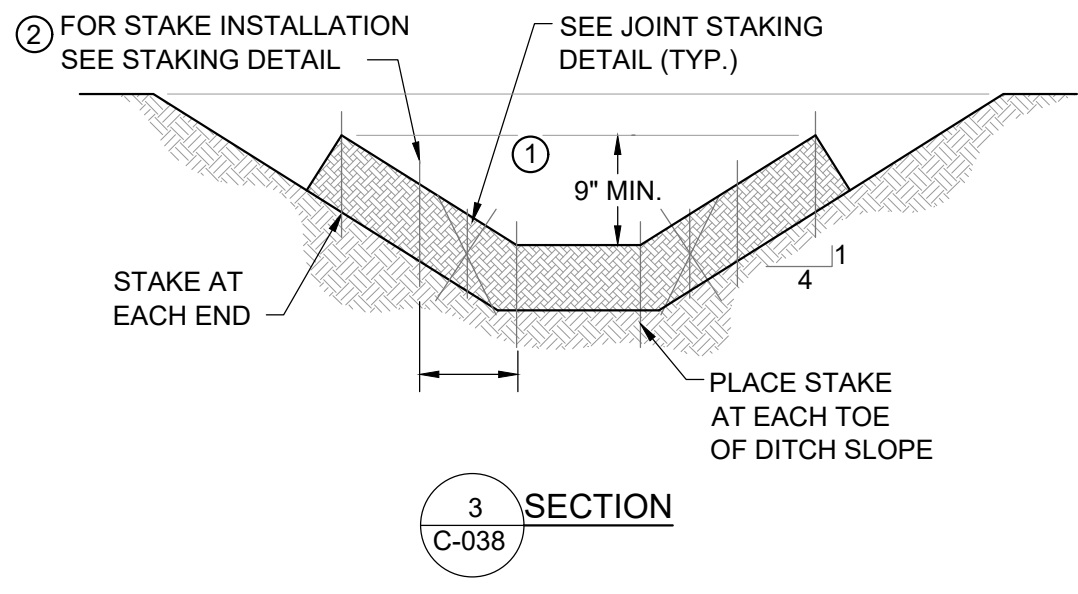
CONCRETE WASHOUT DETAILS
NTS

- NOTES:
- ACTUAL LAYOUT DETERMINED IN THE FIELD.
 - SIGNAGE IDENTIFYING THE CONCRETE WASHOUT AREA SHALL BE INSTALLED WITHIN 5 FT. OF THE WASHOUT FACILITY.

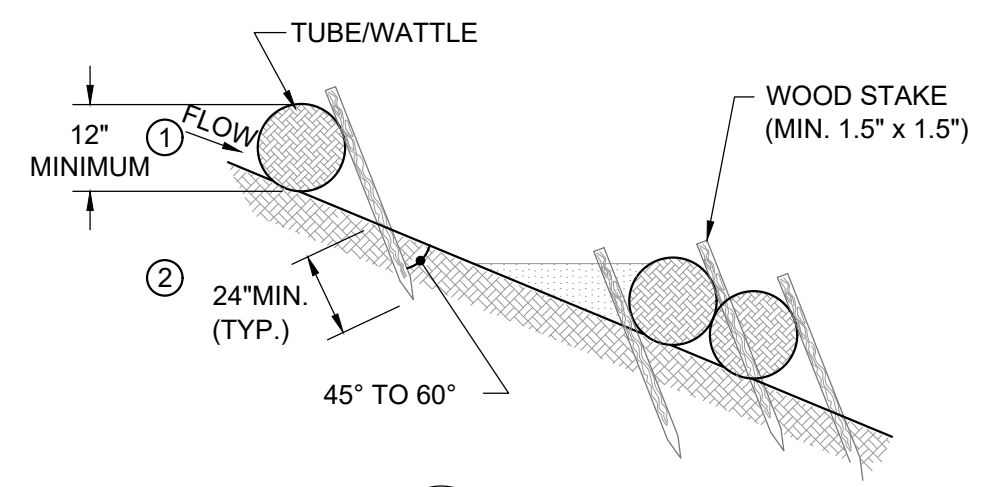


PLAN VIEW FOR DITCH APPLICATION
NTS

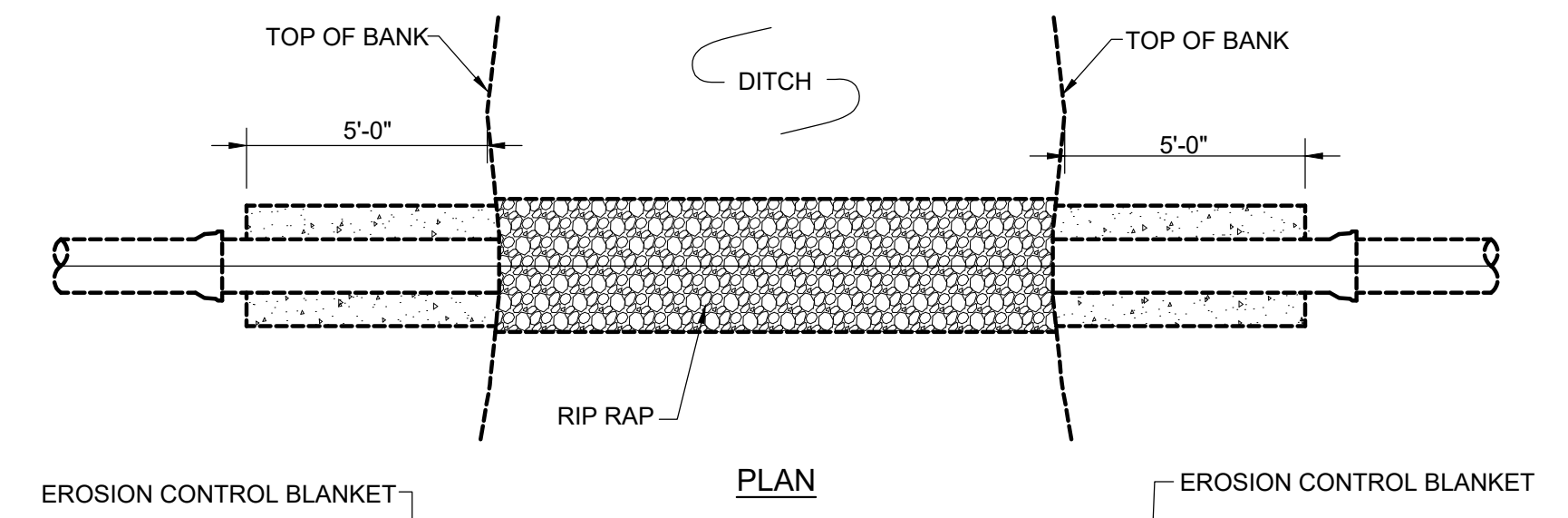
- NOTES:
- THE DEPTH AND WIDTH OF THE WEIR SECTION OF THE WATTLE SHALL BE DESIGNED TO PASS THE 2yr/24hr OR 5yr/24hr STORM EVENT WITHOUT OVERTOPPING THE CHANNEL.
- STAKE PER MANUFACTURERS RECOMMENDATIONS



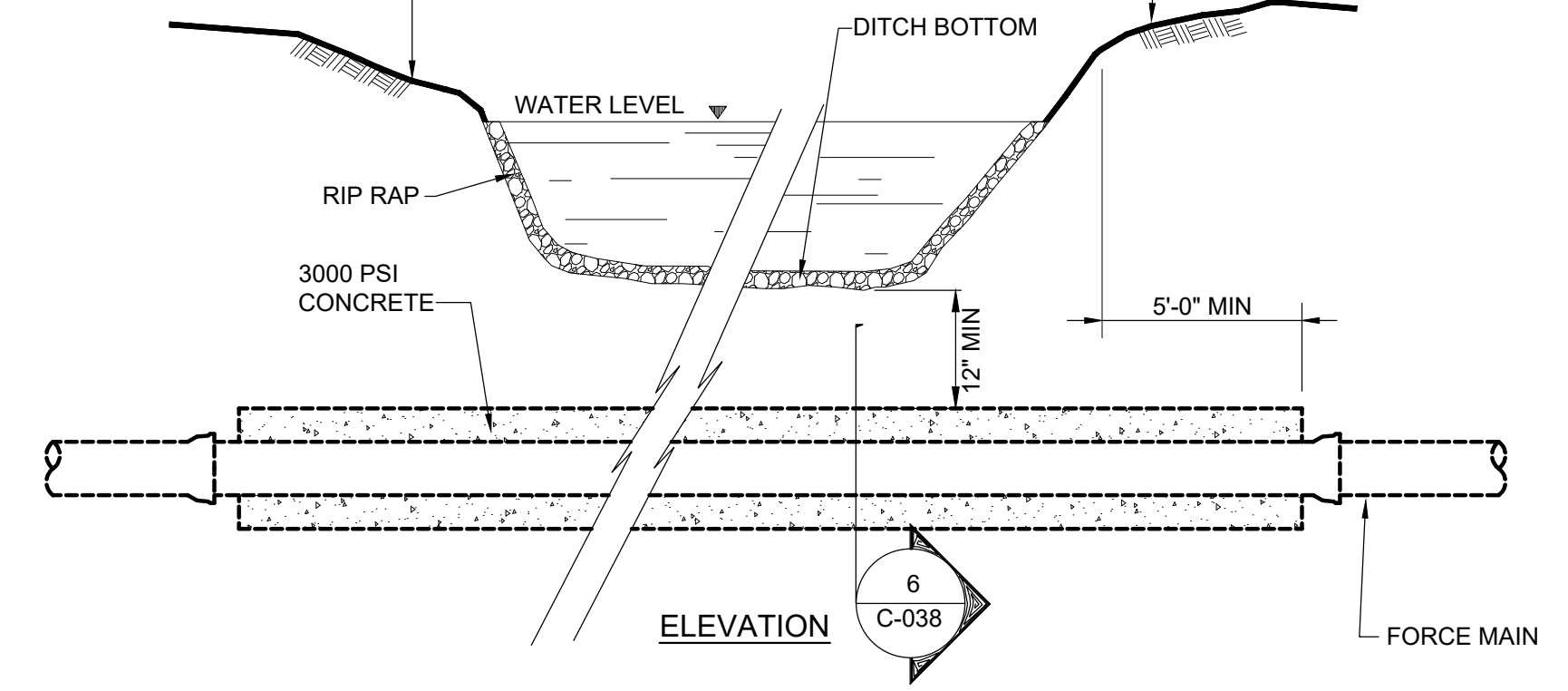
SECTION 3
C-038



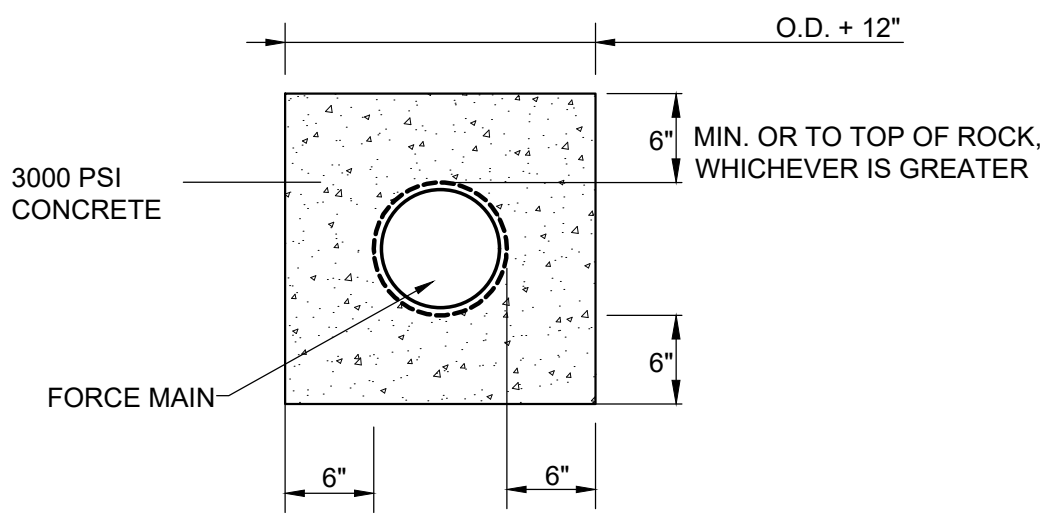
SECTION 4
C-038



PLAN



ELEVATION

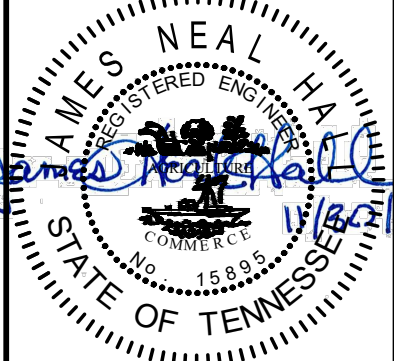
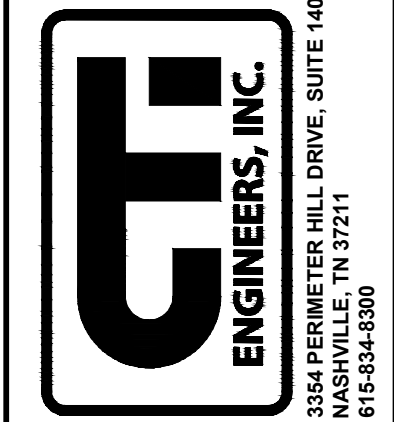


SECTION 6
C-038

DITCH CROSSING DETAIL
NTS

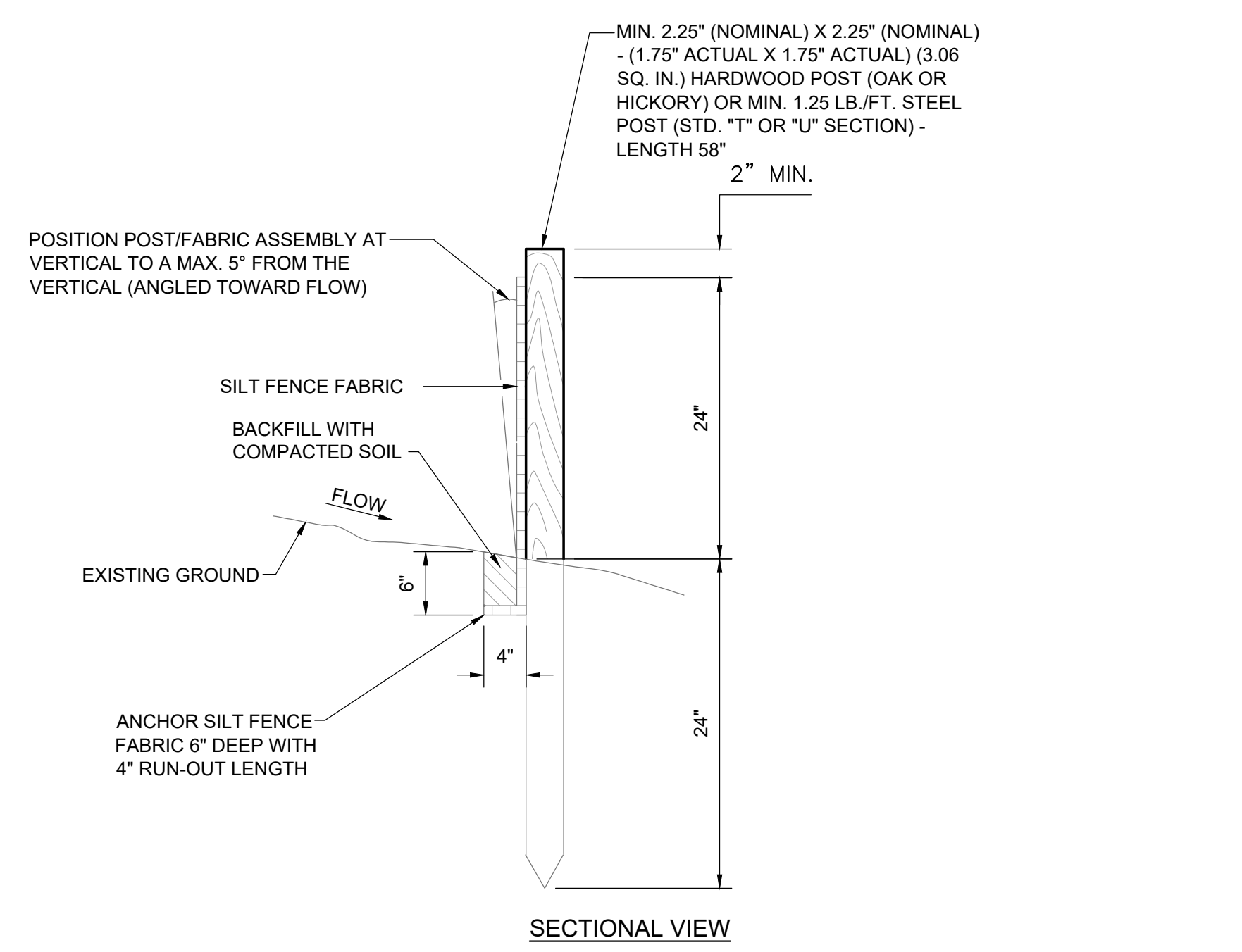
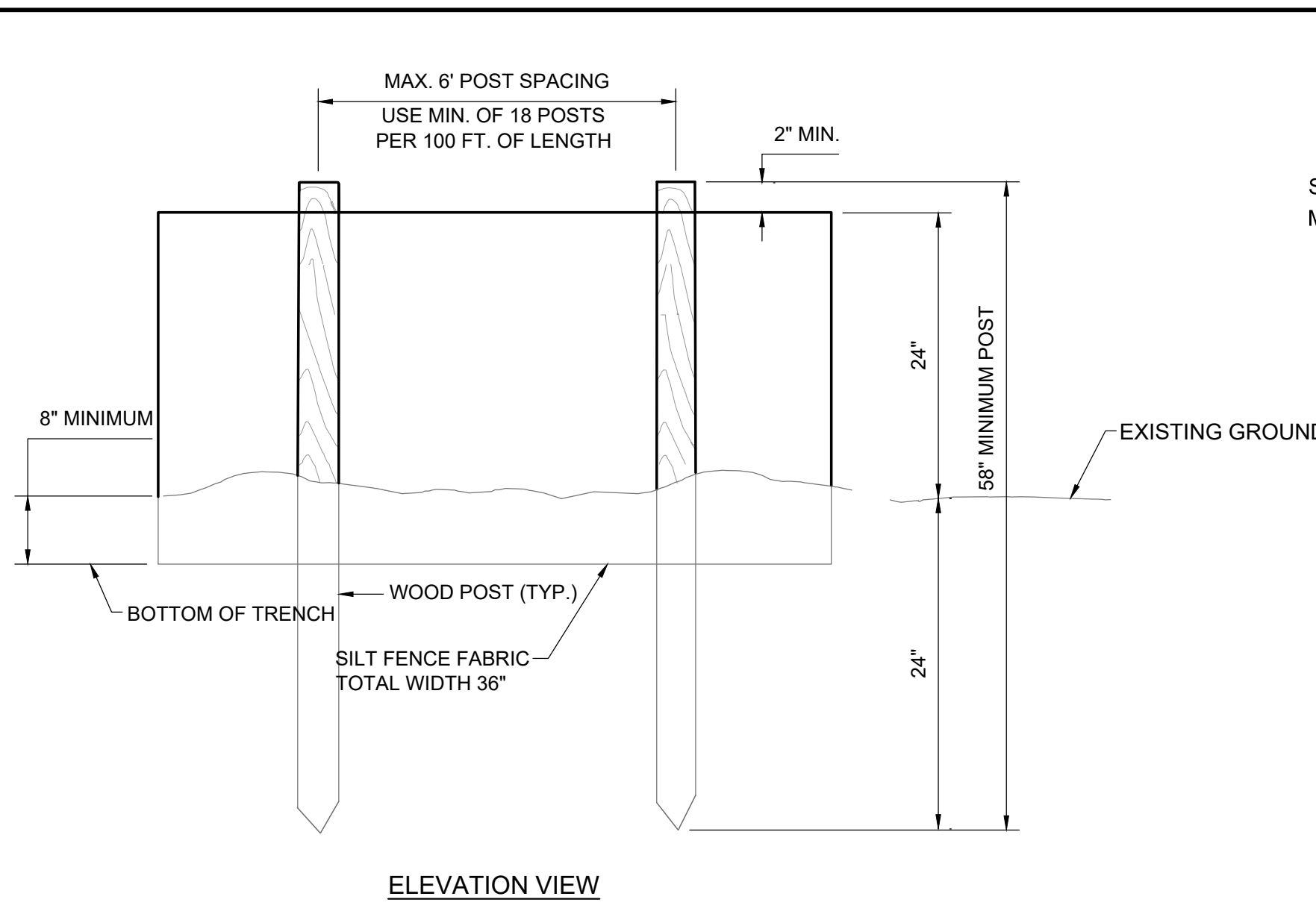
NO.	REVISIONS DESCRIPTIONS	DATE	BY	APPD					
					DESIGN	DRAWN	CHECKED	APPROVED	

WASTEWATER TREATMENT PLANT EXPANSION
BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06
EROSION PREVENTION AND SEDIMENT CONTROL DETAILS
 (1 OF 3)

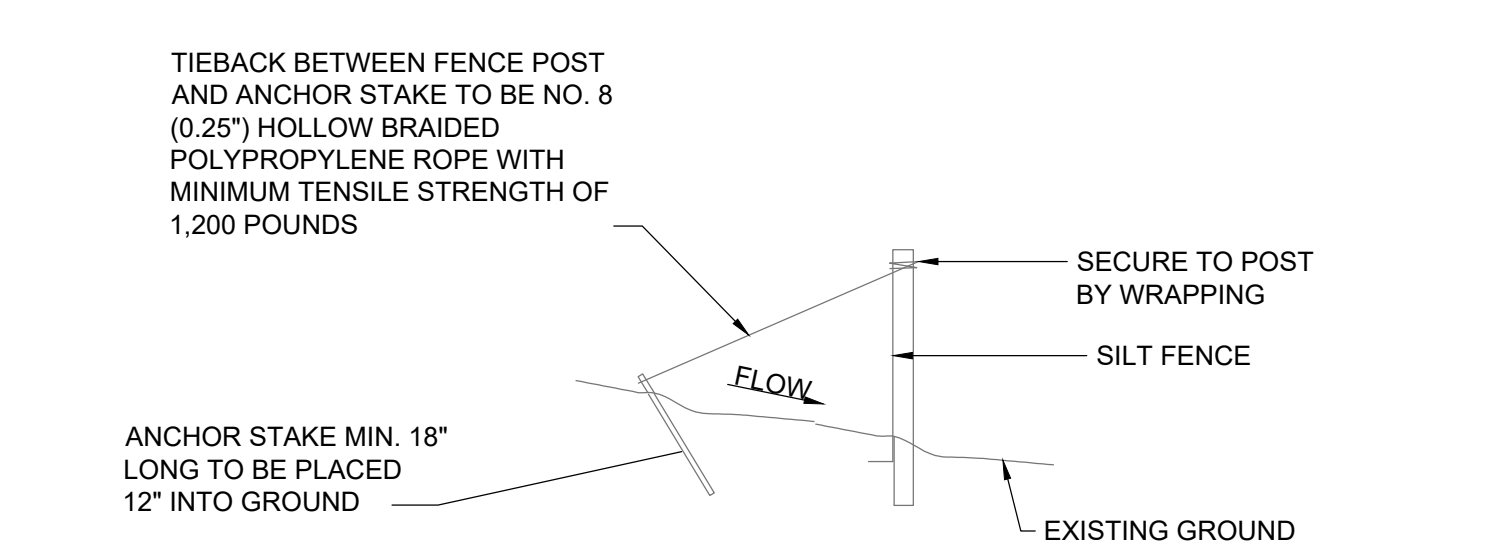
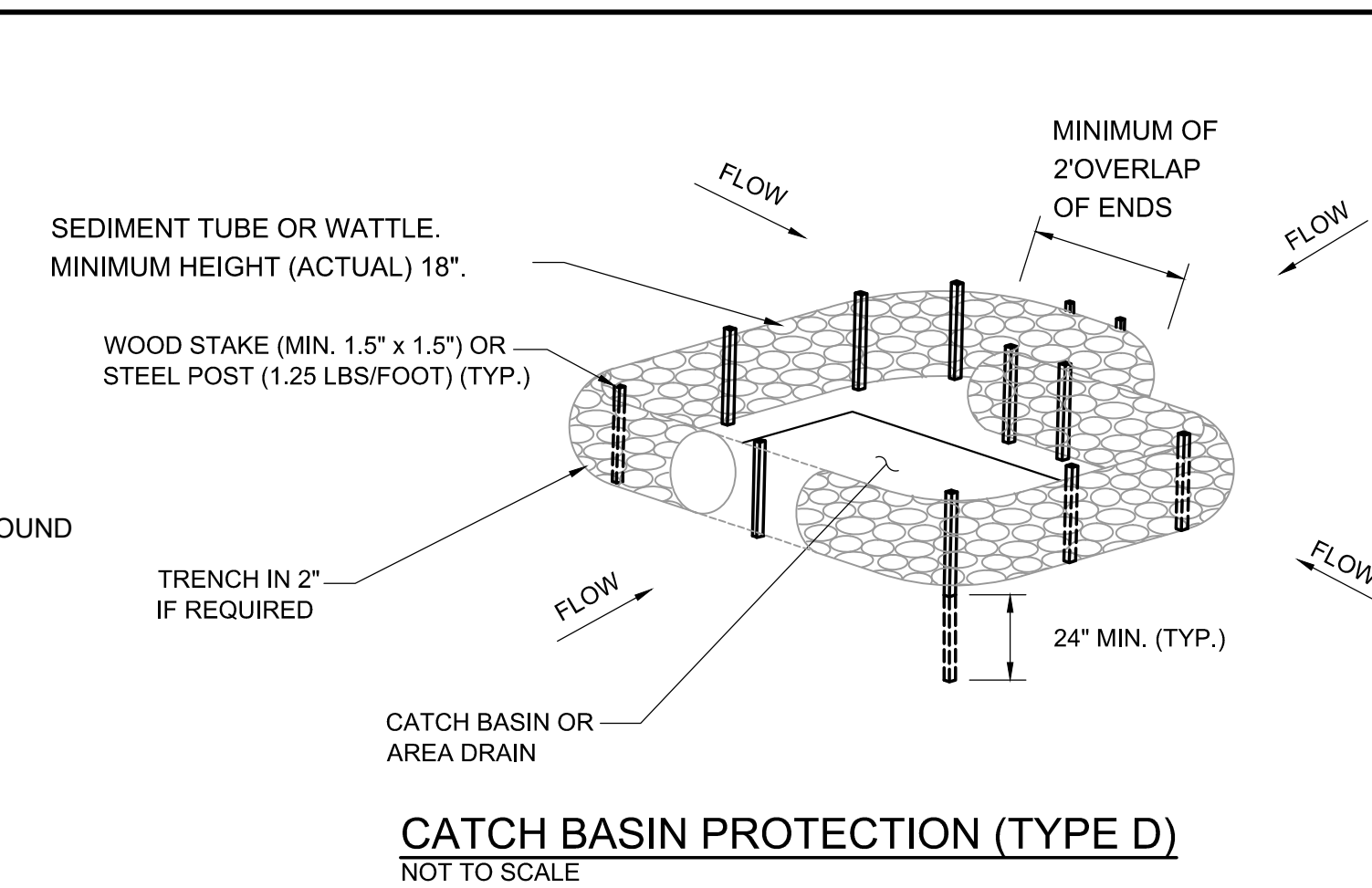


JOB NO.
 N16003
 ISSUE DATE
 November 30, 2018
 SCALE
 NTS
 DRAWING NO.
 C-038

DATE OF PRINT: 2/18/2019 3:04 PM
 CTTI PROJECT: N16003-01 (TN Dept. General Services TDEC) Bledsoe County Correctional Complex, DRAWING: CTTI - C-039 - EROSION DETAILS 2 OF 3 (5/27/11 v9/1/23/19 9:56AM), LAYOUT: C-039

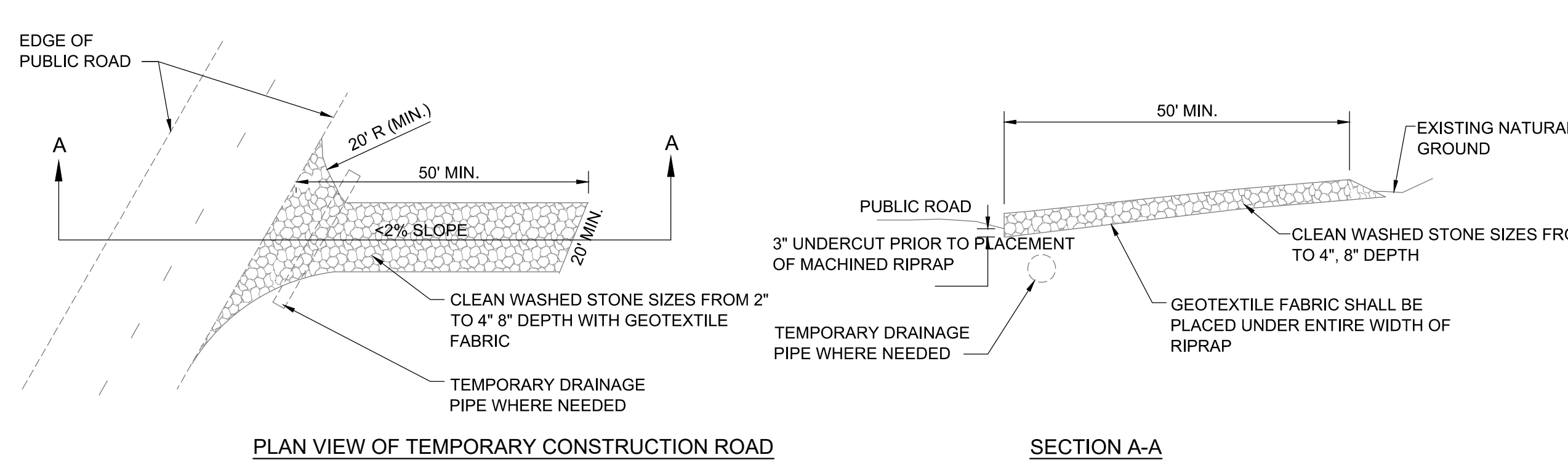
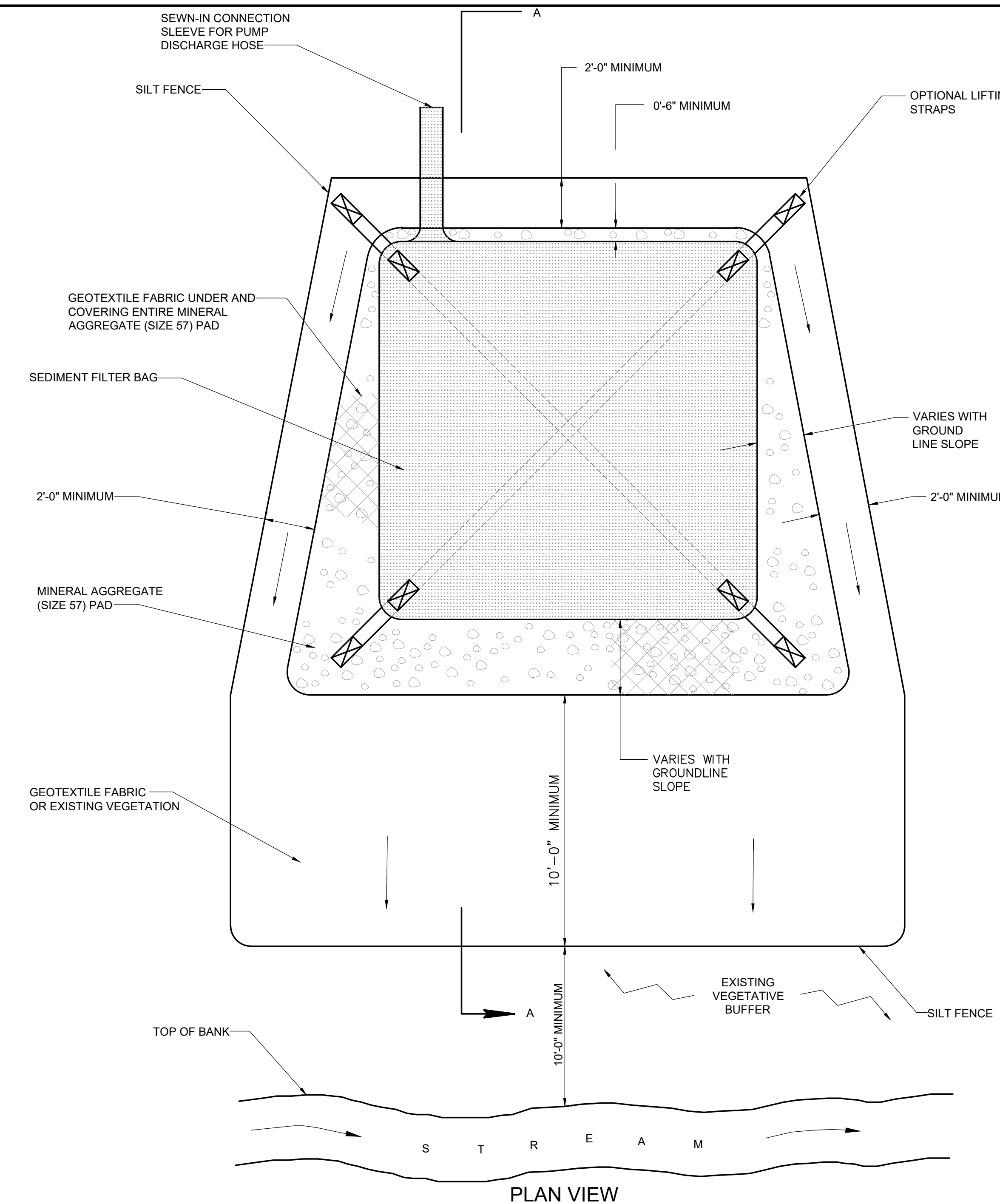


SILT FENCE INSTALLATION DETAILS
 NTS

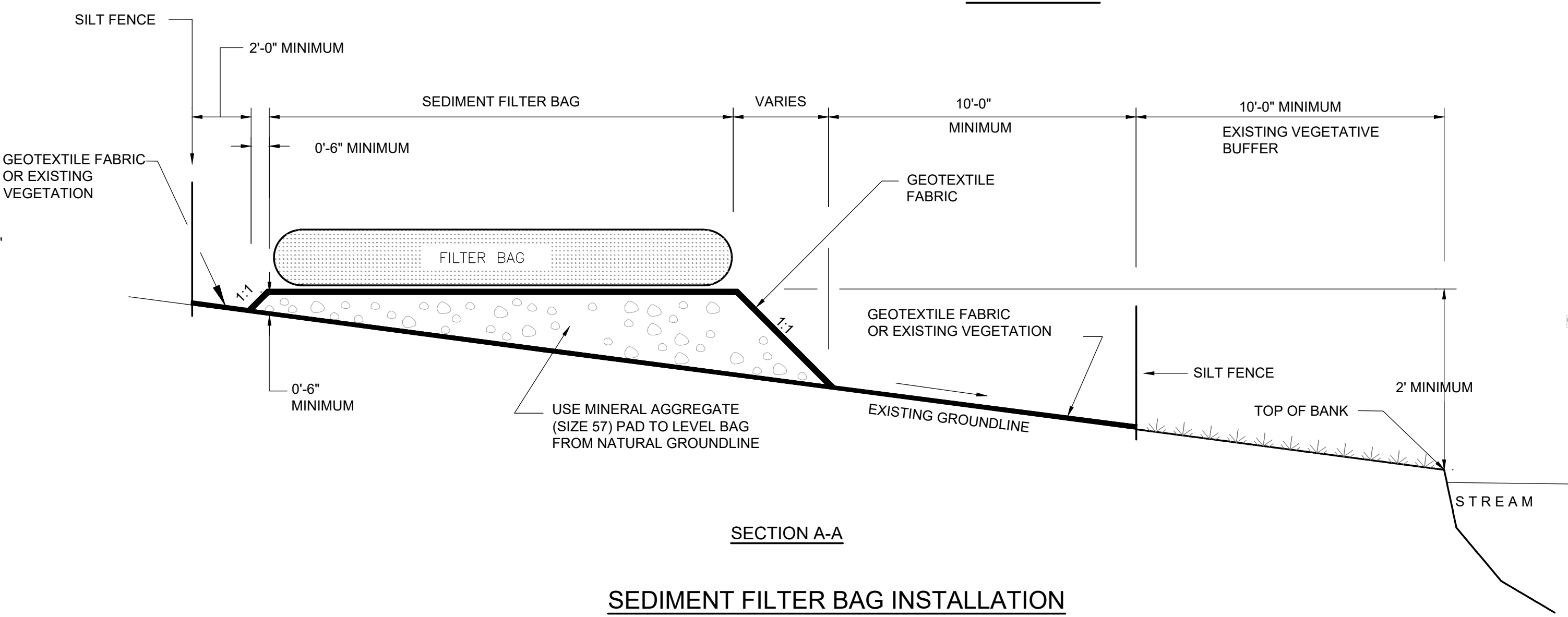


EROSION CONTROL PLAN LEGEND

	CHECK DAM		CONCRETE WASHOUT
	SILT FENCE		STABILIZATION WITH STRAW MULCH
	TUBES AND WATTLES		STABILIZATION WITH PERMANENT VEGETATION
	DISTURBANCE LIMIT		DEWATERING TREATMENT PRACTICES
	FBERM FILTER BERM		CATCH BASIN PROTECTION (TYPE D)
	CONSTRUCTION EXIT		SEDIMENT TRAP WITH ENHANCED ROCK CHECK DAM



TEMPORARY CONSTRUCTION EXIT
 NTS



SEDIMENT FILTER BAG INSTALLATION

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NO.	DATE	BY	APPD	REVISIONS DESCRIPTIONS

DESIGN	DRAWN	CHECKED	APPROVED
NH	JRH	NH	NH

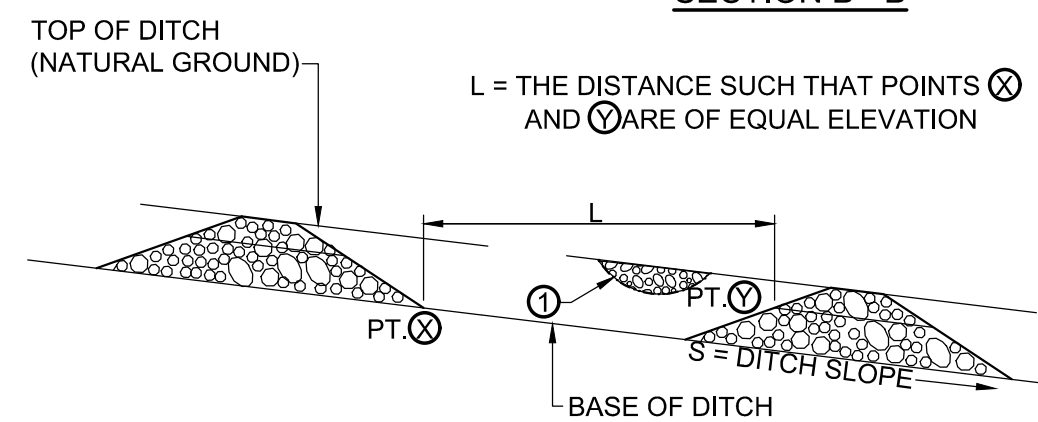
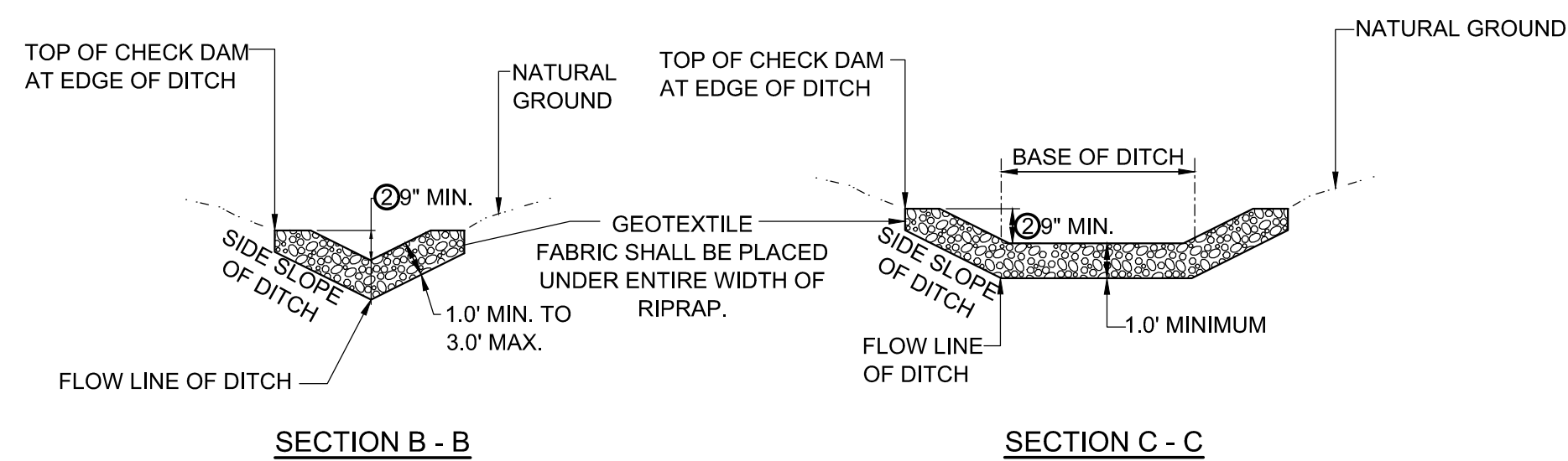
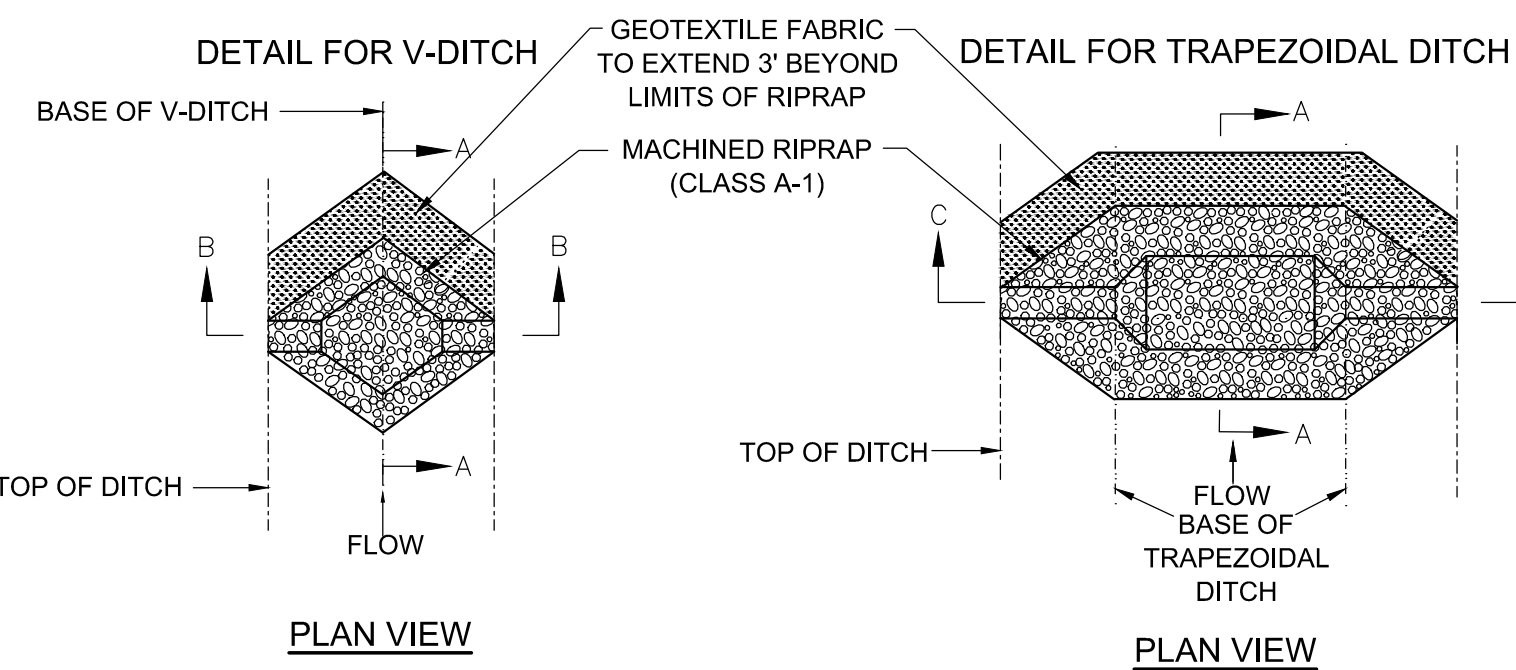
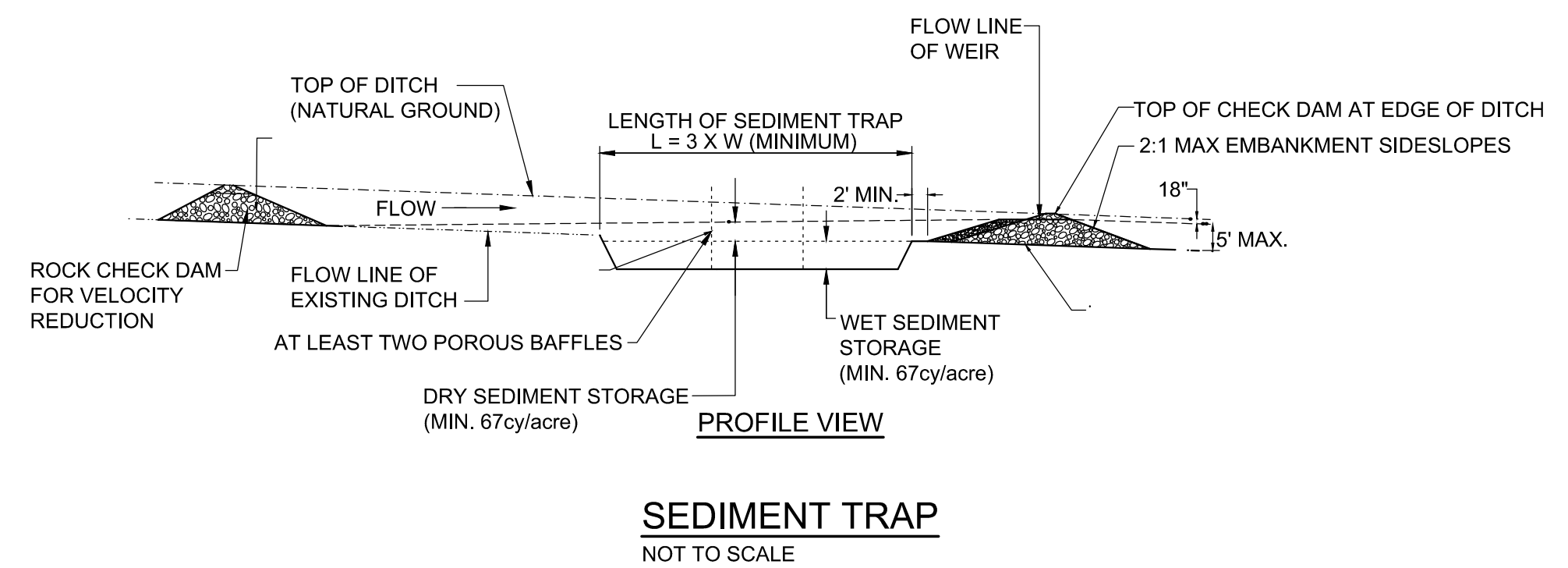
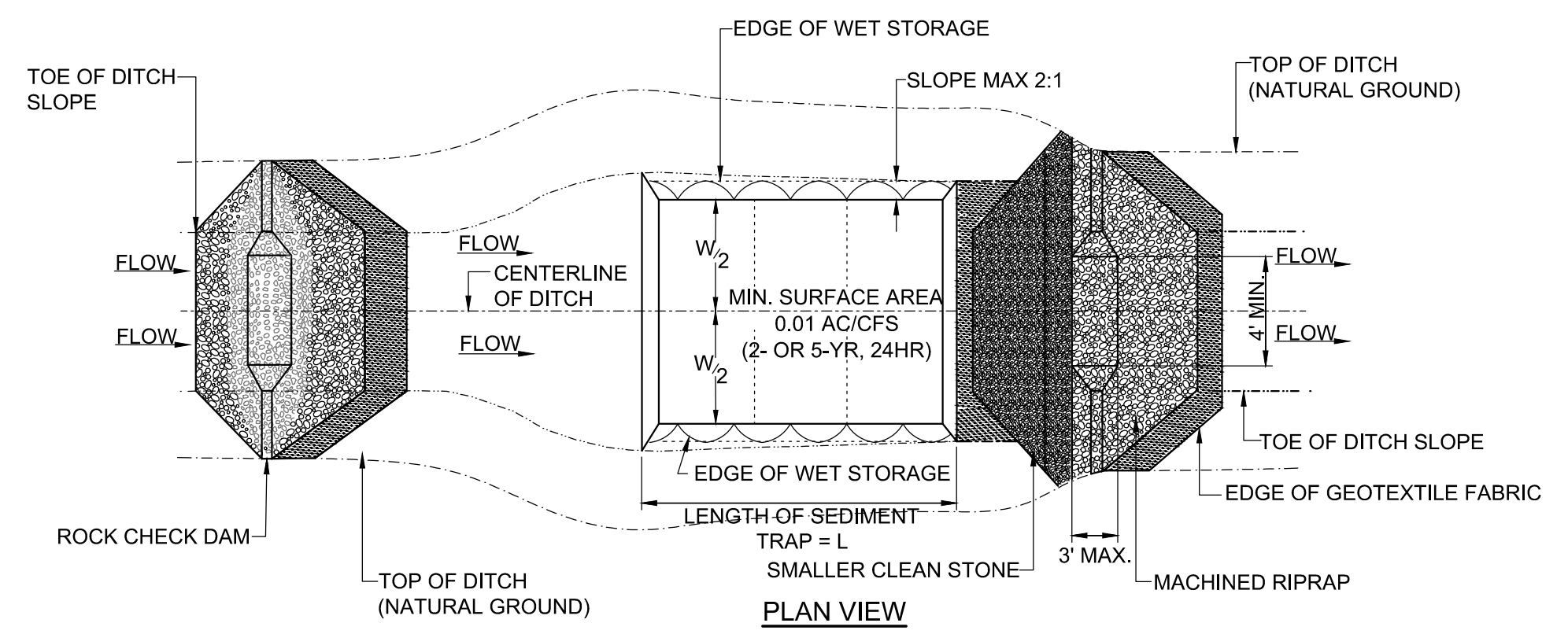
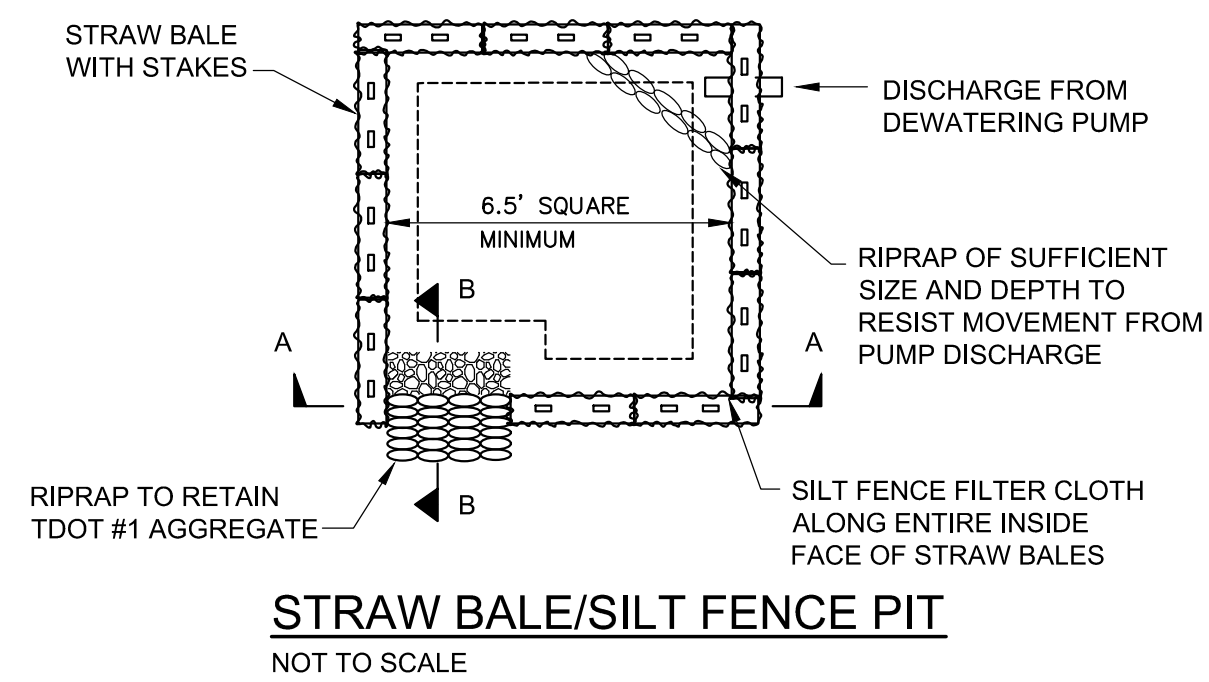
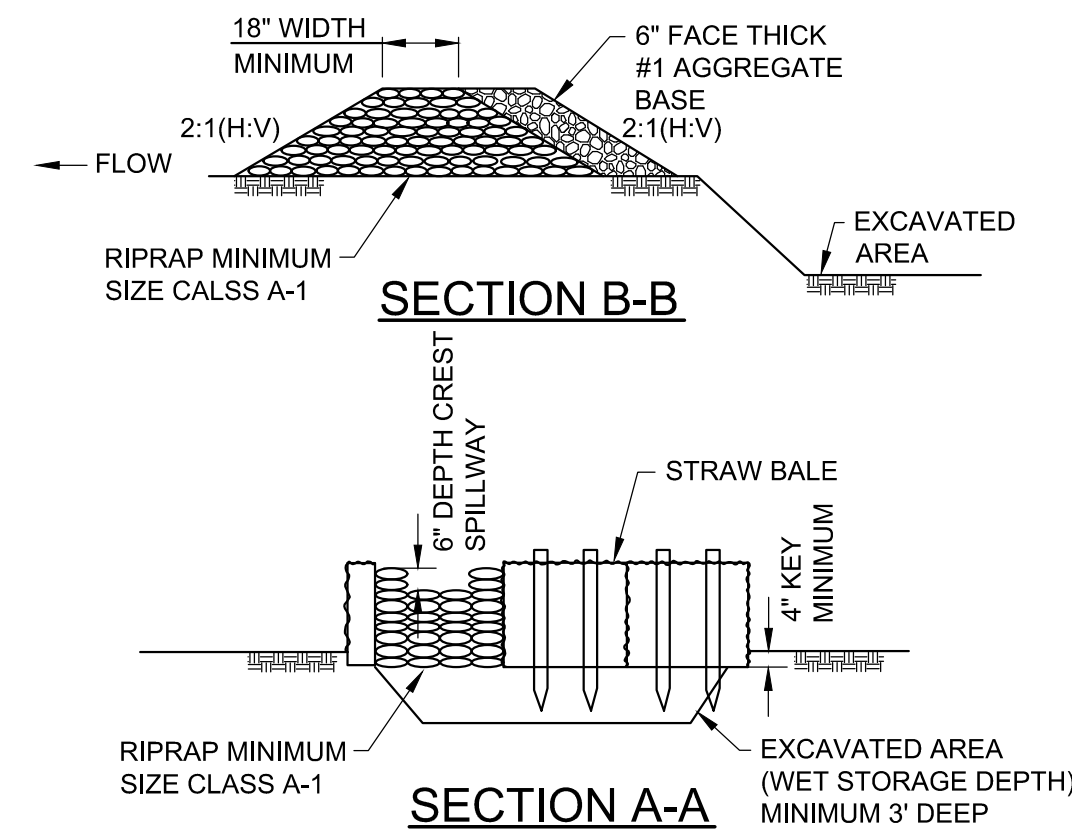
WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

EROSION PREVENTION AND SEDIMENT CONTROL DETAILS
 (2 OF 3)

ENGINEERS, INC.
 3354 PERMIER HILL DRIVE, SUITE 140
 NASHVILLE, TN 37211
 615-834-8900

STATE OF TENNESSEE
 JAMES NEAL HARRIS
 REGISTERED ENGINEER
 No. 15889
 EXPIRES 12/31/2018

JOB NO. N16003
 ISSUE DATE November 30, 2018
 SCALE NTS
 DRAWING NO. C-039



NOTES:
 ① FILL LOW AREAS ALONG TOP OF BANK TO PREVENT BACKWATER FROM EXITING DITCH.
 ② WEIR FLOW DEPTH BASED UPON 2yr/24hr STORM EVENT OR 5yr/24hr STORM EVENT.

CHECK DAM
 NOT TO SCALE

EROSION CONTROL PLAN LEGEND

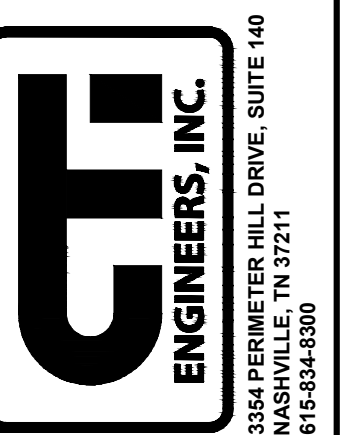
	CHECK DAM		CONCRETE WASHOUT
	SILT FENCE		STABILIZATION WITH STRAW MULCH
	TUBES AND WATTLES		STABILIZATION WITH PERMANENT VEGETATION
	DISTURBANCE LIMIT		DEWATERING TREATMENT PRACTICES
	FBERM FILTER BERM		CATCH BASIN PROTECTION (TYPE D)
	CONSTRUCTION EXIT		SEDIMENT TRAP WITH ENHANCED ROCK CHECK DAM

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NO.	REVISIONS DESCRIPTIONS	DATE	BY	APPD

DESIGN	IN	DRAWN	JRH	CHECKED	NH	APPROVED	NH

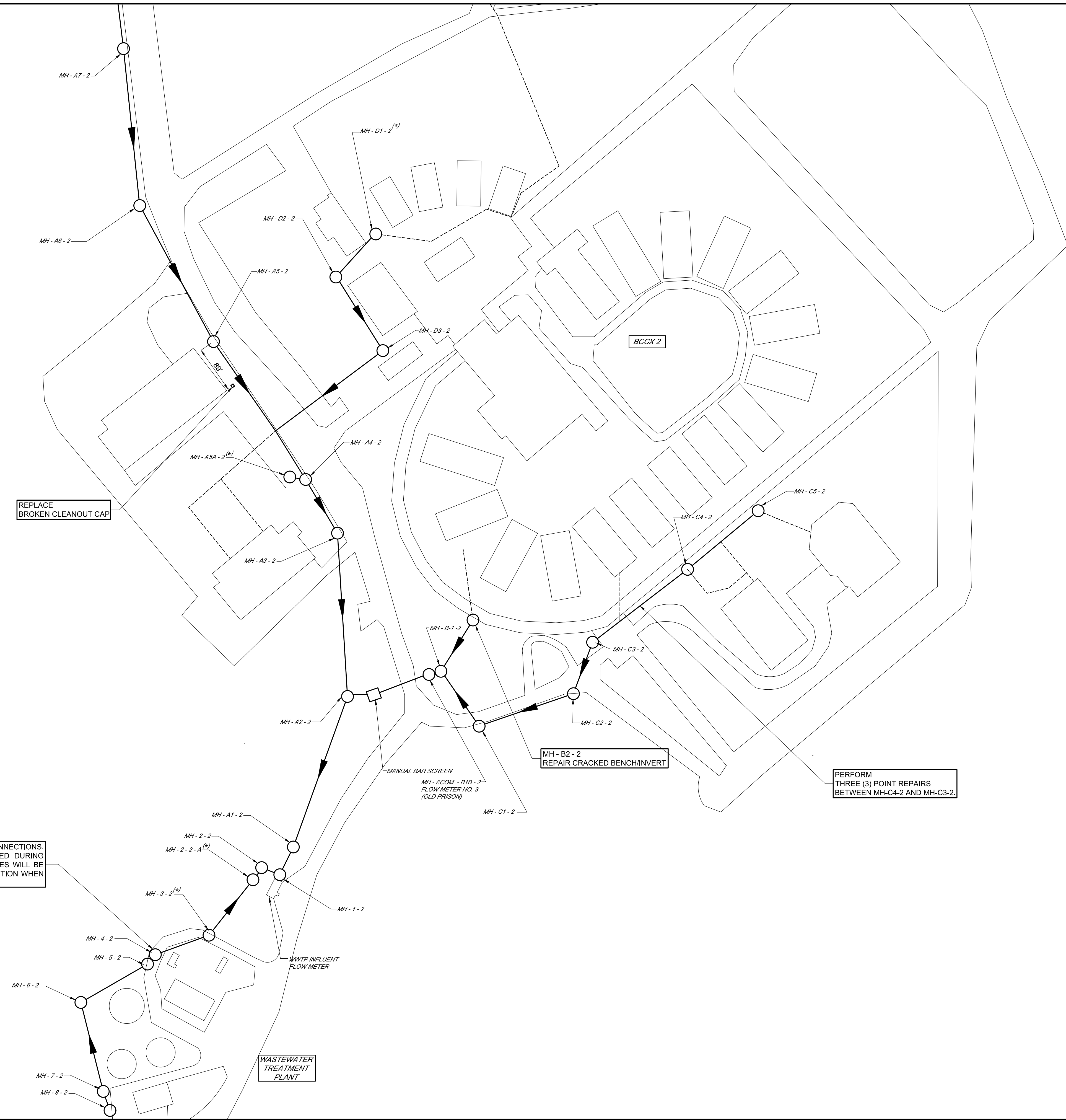
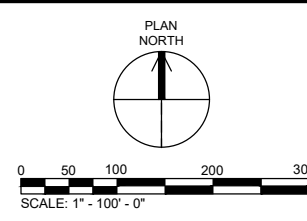
WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06
EROSION PREVENTION AND SEDIMENT CONTROL DETAILS
 (3 OF 3)



JOB NO. N16003
ISSUE DATE November 30, 2018
SCALE NTS
DRAWING NO. C-040

CTI PROJECT: N16003-01 (TN Dept. General Services TDEC) Bledsoe County Correctional Complex. DRAWING: CTI - C-041 - SEWER REHABILITATION LOCATION MAP. (6863476/422/19_10/23/AM). LAYOUT: CTI

DATE OF PRINT: 4/22/2019 10:39 AM



MH-4-2 HAS THREE (3) POOR PIPE CONNECTIONS. TWO (2) OF THESE WILL BE ABANDONED DURING WWTP CONSTRUCTION AND TWO (2) PIPES WILL BE ADDED. REPAIR THE REMAINING CONNECTION WHEN THIS WORK IS PERFORMED.

REPLACE BROKEN CLEANOUT CAP

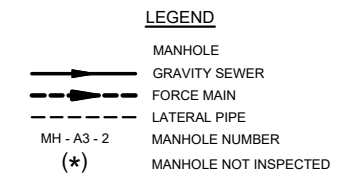
MANUAL BAR SCREEN
MH - ACOM - B1B - 2
FLOW METER NO. 3
(OLD PRISON)

MH - B2 - 2
REPAIR CRACKED BENCH/INVERT

PERFORM THREE (3) POINT REPAIRS BETWEEN MH-C4-2 AND MH-C3-2

WASTEWATER TREATMENT PLANT

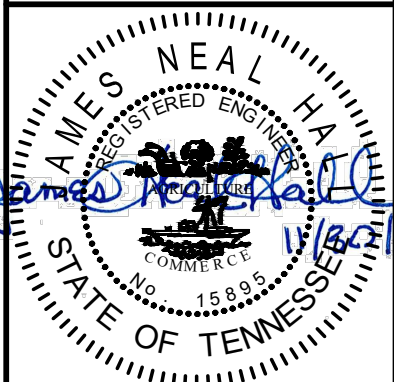
WWTP INFLUENT FLOW METER



DESIGN		DRAWN		CHECKED		APPROVED	
NH		JRH		NH		NH	

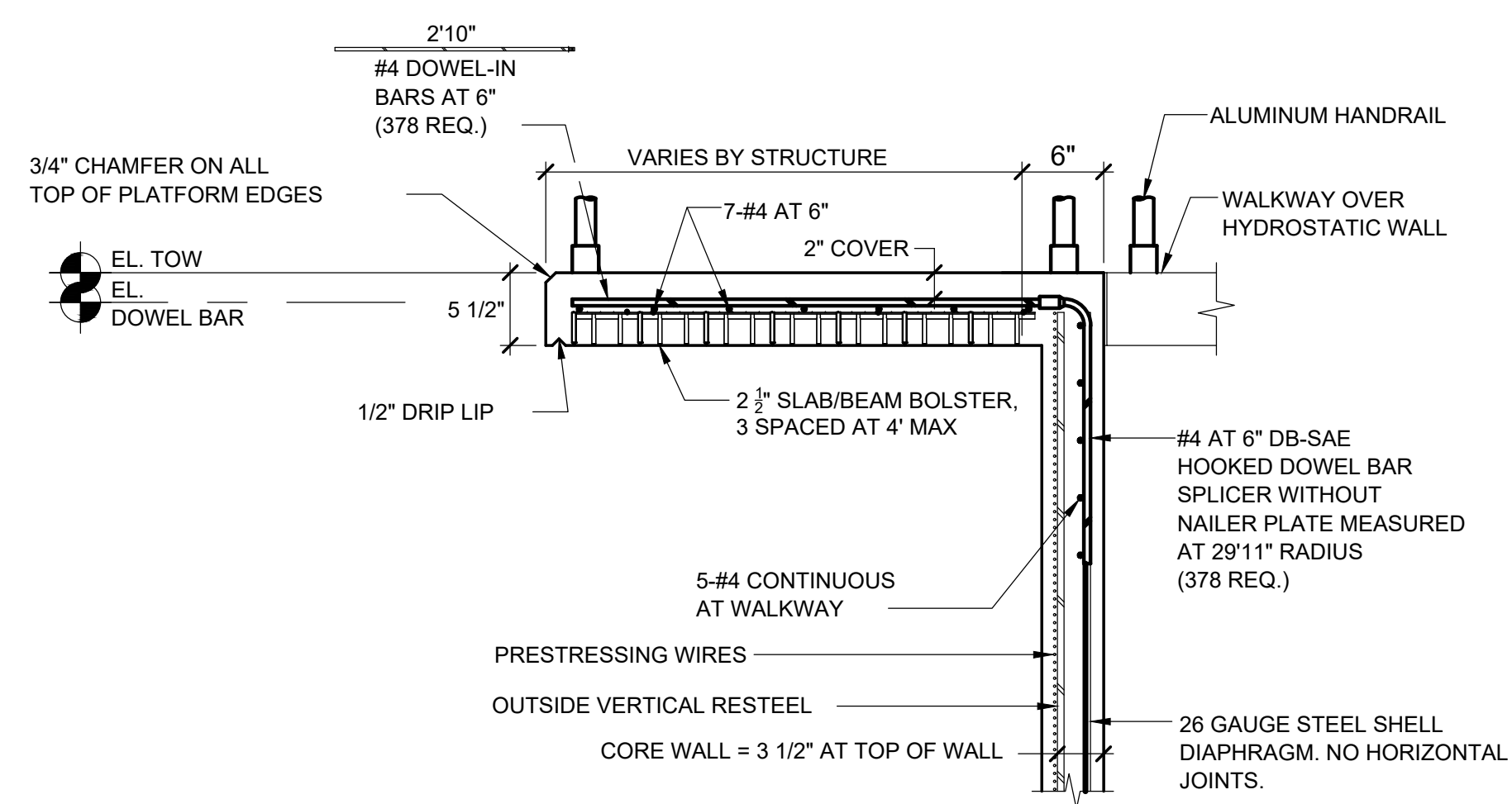
DESIGN NO. _____
 DESCRIPTIONS _____
 DATE _____
 BY _____
 APPD _____

ENGINEERS, INC.
 3354 PERMETER HILL DRIVE, SUITE 140
 NASHVILLE, TN 37211
 615-834-8900

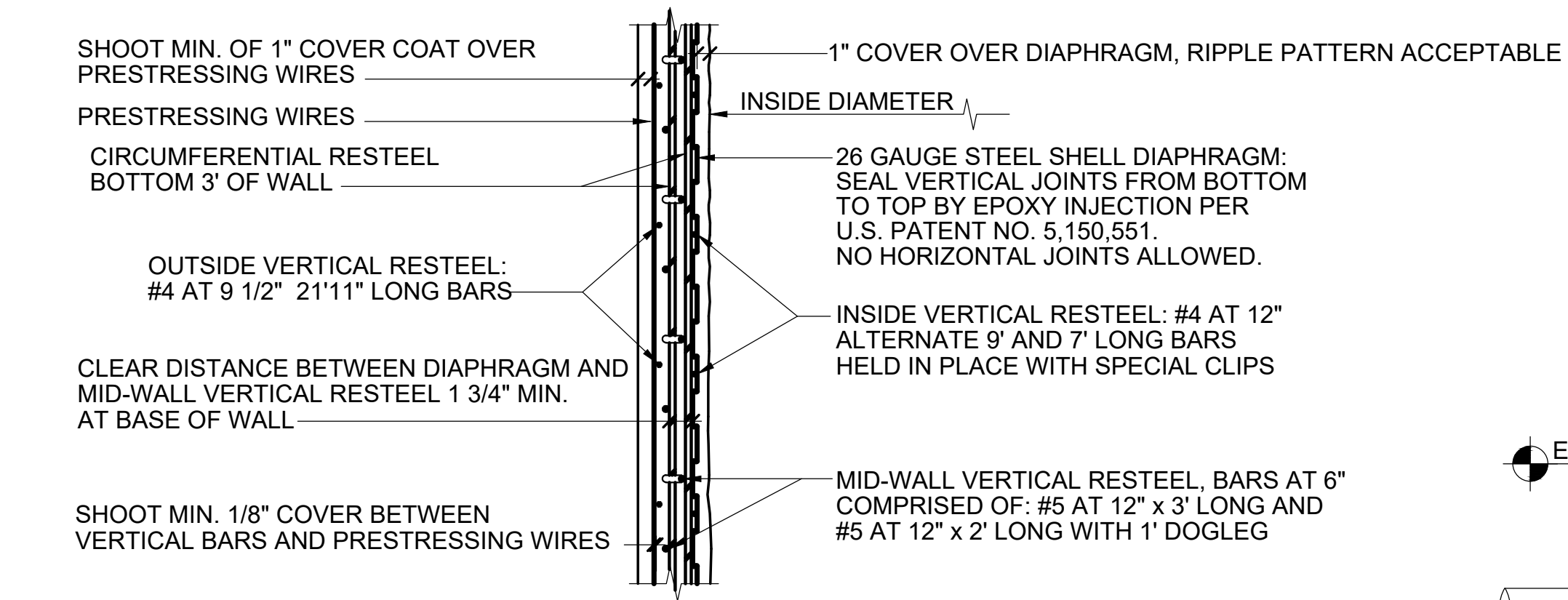


JOB NO.
N16003
 ISSUE DATE
November 30, 2018
 SCALE
1" = 100' - 0"
 DRAWING NO.
C-041

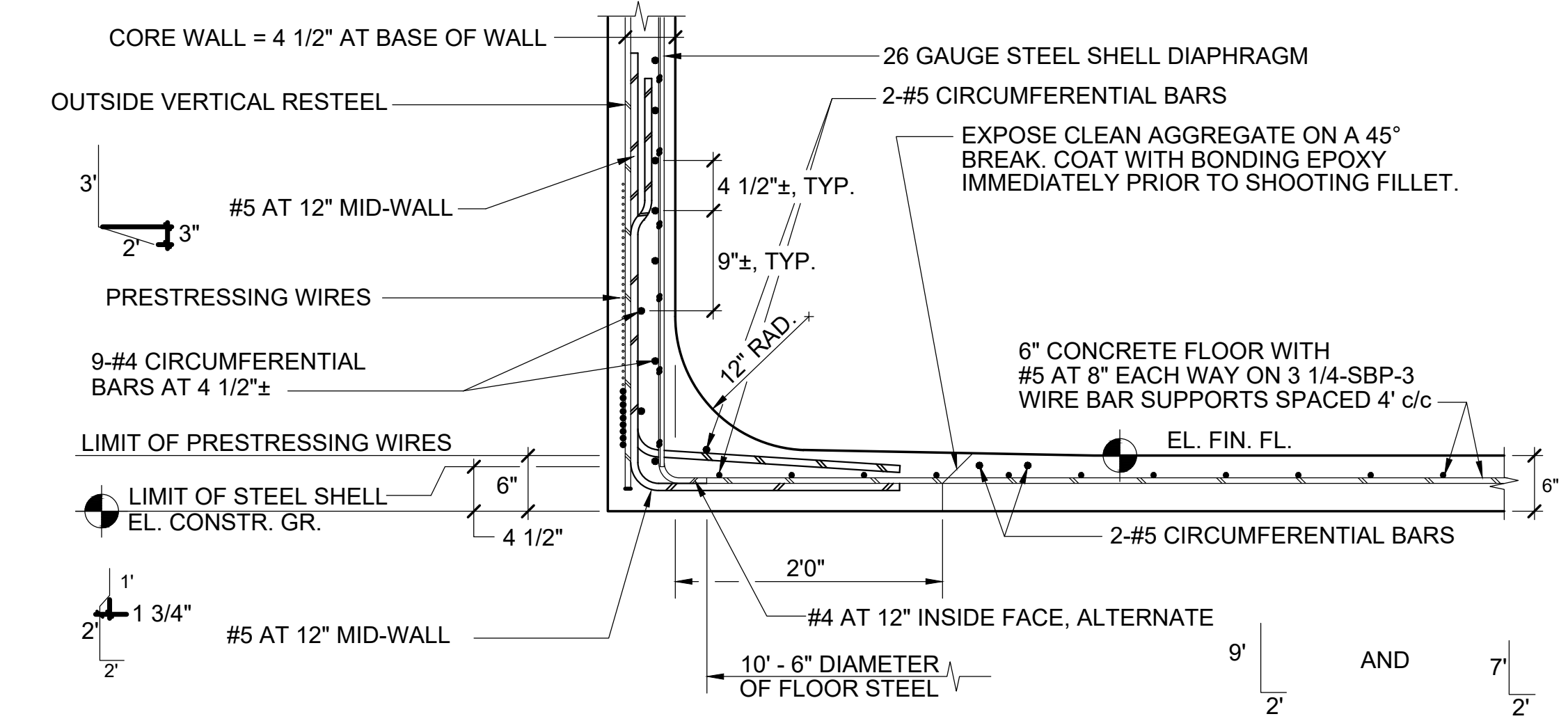
CTI PROJECT: N16003-01 (TN Dept. General Services TDEC) Bledsoe County Correctional Complex DRAWING: CTI - M-001 PRESTRESSED CONCRETE TANK INFORMATION AND DETAILS (665366v17/3/14/19 2:54PM) LAYOUT: M-001
 DATE OF PRINT: 4/26/2019 7:29 AM



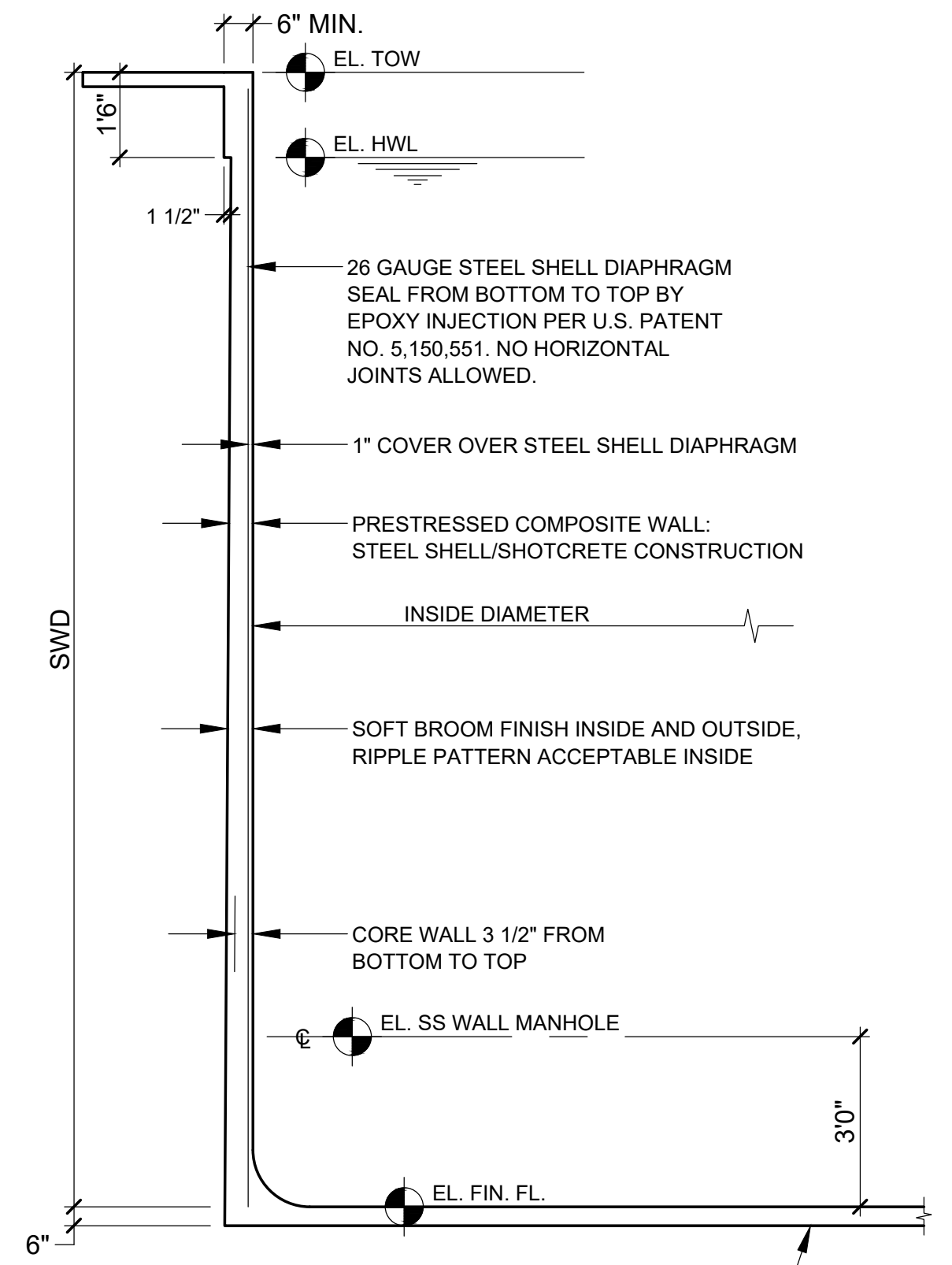
UPPER WALL DETAIL
NTS



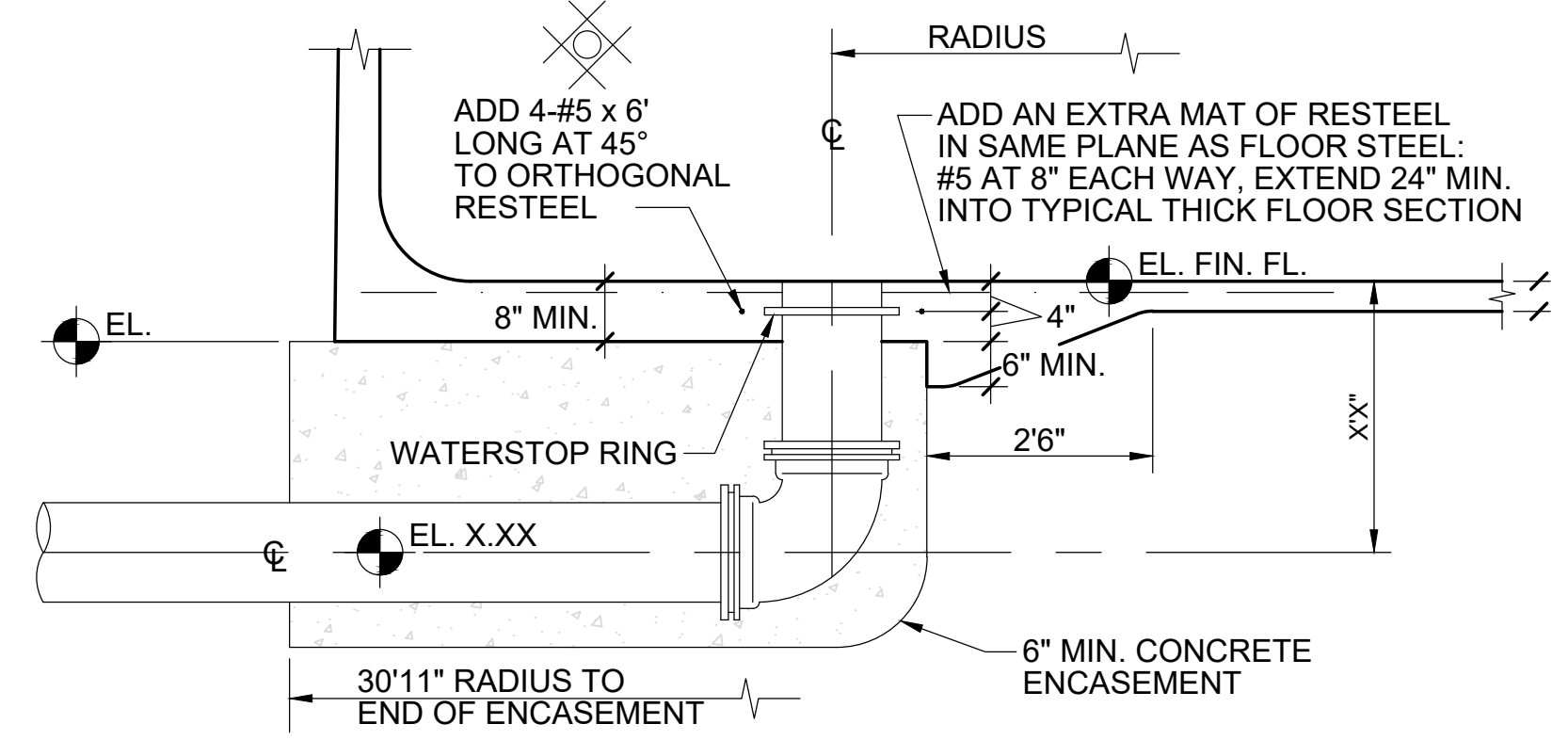
HORIZONTAL WALL SECTION
NTS



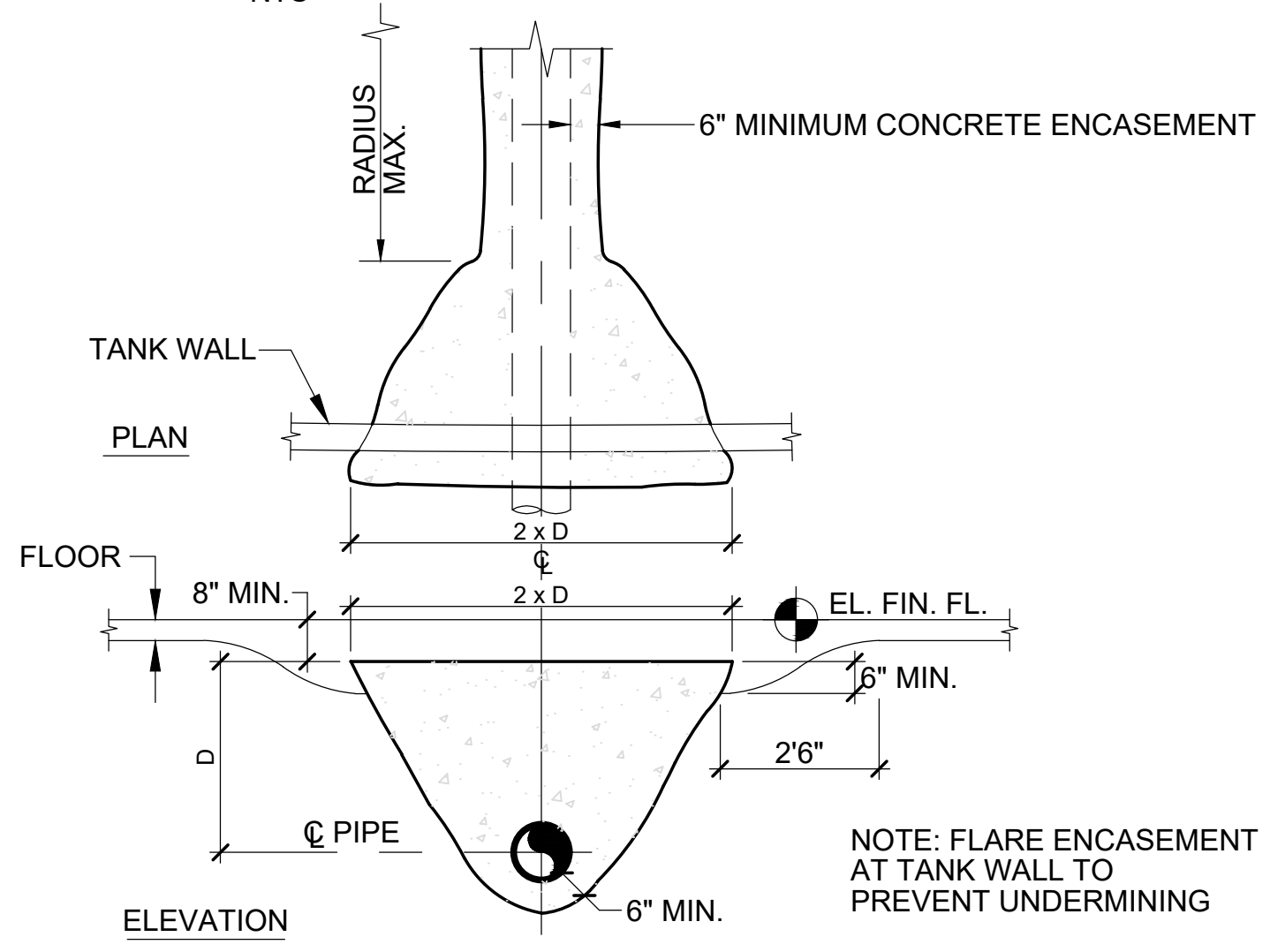
FLOOR-WALL DETAIL TYPICAL WALL DETAILS



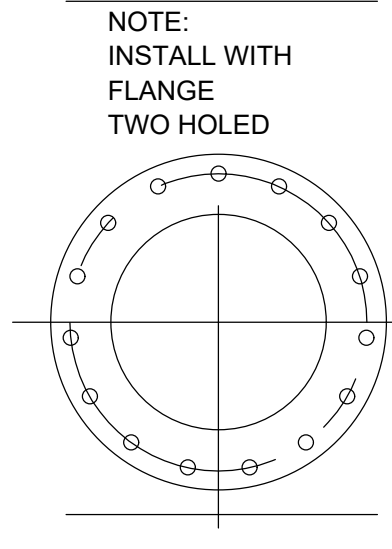
TYPICAL WALL SECTION
NTS



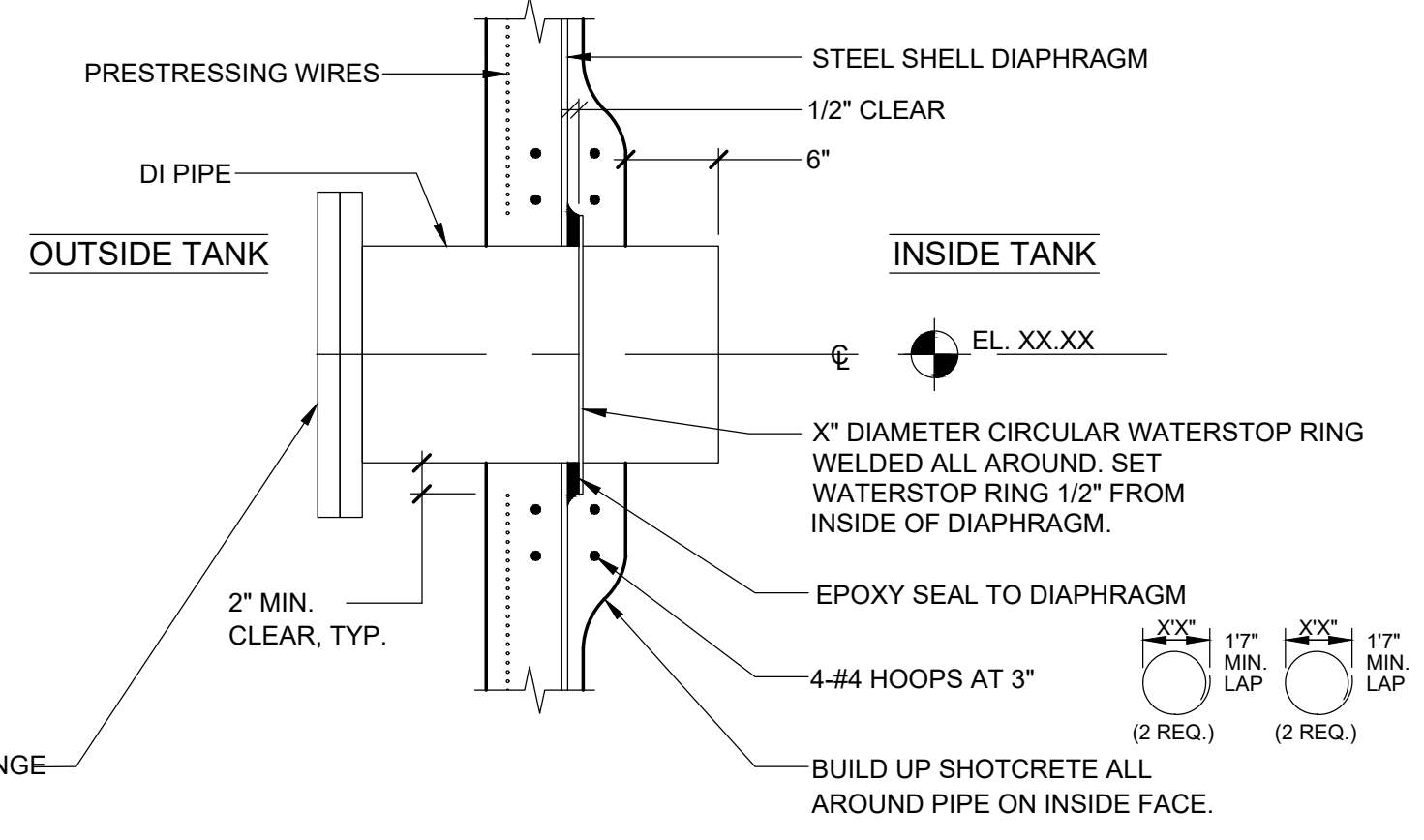
6" DIP DEWATERING
NTS



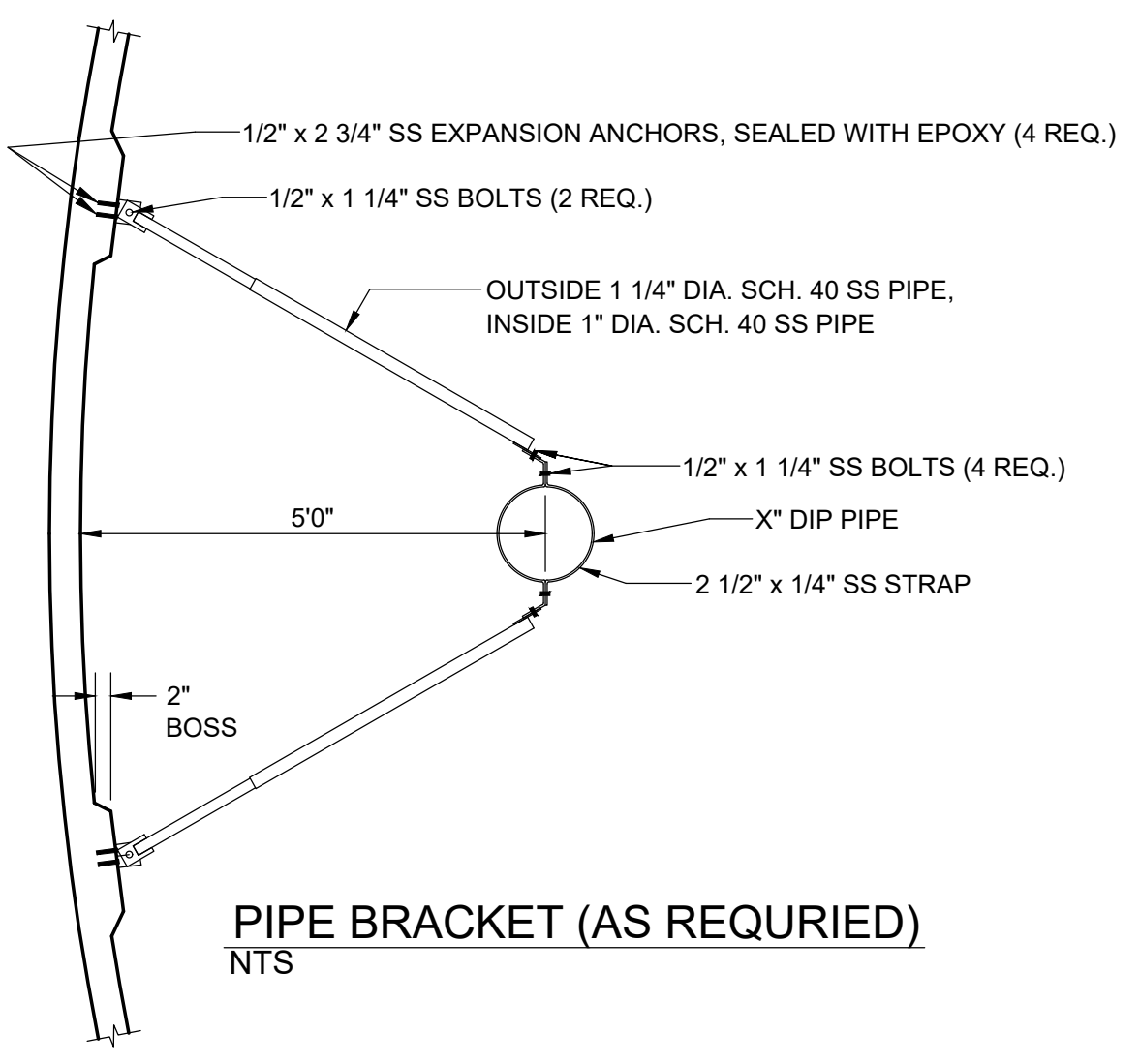
TYPICAL PIPE ENCASEMENT AT WALL
NTS



150# DI FLANGE AND BLIND FLANGE WHERE NOTED ON DRAWINGS



DUCTILE IRON WALL PIPE (AS REQ.)
NTS



PIPE BRACKET (AS REQUIRED)
NTS

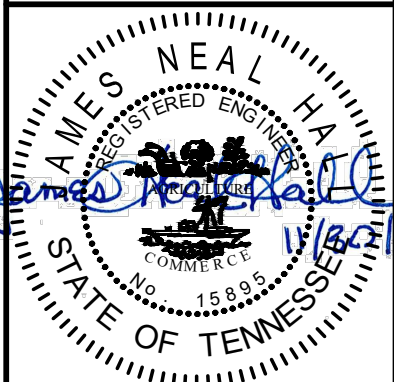
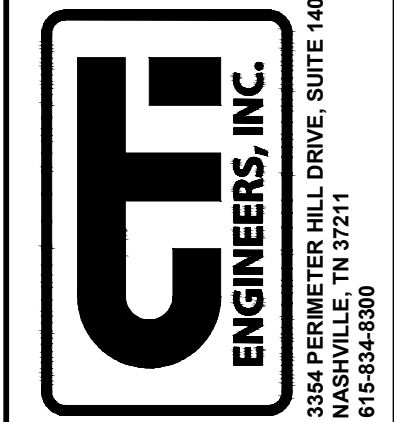
- NOTES:
- ELEVATIONS AND DIMENSIONS VARY BY STRUCTURE.
 - DETAILS ON THIS DRAWING WERE PROVIDED BY A PRESTRESSED CONCRETE TANK MANUFACTURER. THEY ARE FOR BIDDING INFORMATION ONLY. ACTUAL CONSTRUCTION DETAILS WILL BE DETERMINED THROUGH THE SHOP DRAWING PROCESS WITH THE SELECTED TANK MANUFACTURER.
 - THE TANK SUPPLIER TO PROVIDE WALL AND FLOOR ELEMENTS NECESSARY TO ACCEPT BRACKETS AND OTHER ATTACHMENTS SHOWN ON THE DRAWINGS FOR THE PROCESS TANKS. REFER TO THE APPROPRIATE PROCESS DRAWINGS AND DETAILS FOR MORE INFORMATION. FINAL CONFIGURATIONS AND DETAILS TO BE DETERMINED THROUGH SHOP DRAWING REVIEW PROCESS.

TANK	INSIDE DIAMETER	FINISHED FLOOR ELEV.	HIGH WATER ELEV.	TOP OF WALL ELEV.	WALL HEIGHT	DOMES	PERIMETER WALKWAY AT TOP	CENTER WALL
INFLUENT EQUALIZATION	59'-0"	1715.00	1729.00	1731.00	16'-0"		X	X
SBR 3	47'-0"	1719.77	1738.77	1740.77	21'-0"		X	
SBR 4	47'-0"	1719.77	1738.77	1740.77	21'-0"		X	
POST EQUALIZATION	29'-0"	1719.77	1733.77	1740.77	21'-0"		X	
AEROBIC DIGESTER	59'-0"	1718.68	1738.68	1740.68	22'-0"		X	X
EFFLUENT STORAGE	185'-0"	1713.00	1760.00	1760.00	47'-0"	X		

PRESTRESSED CONCRETE TANK - SUMMARY

NO.	REVISIONS DESCRIPTIONS	DATE	BY	APPD

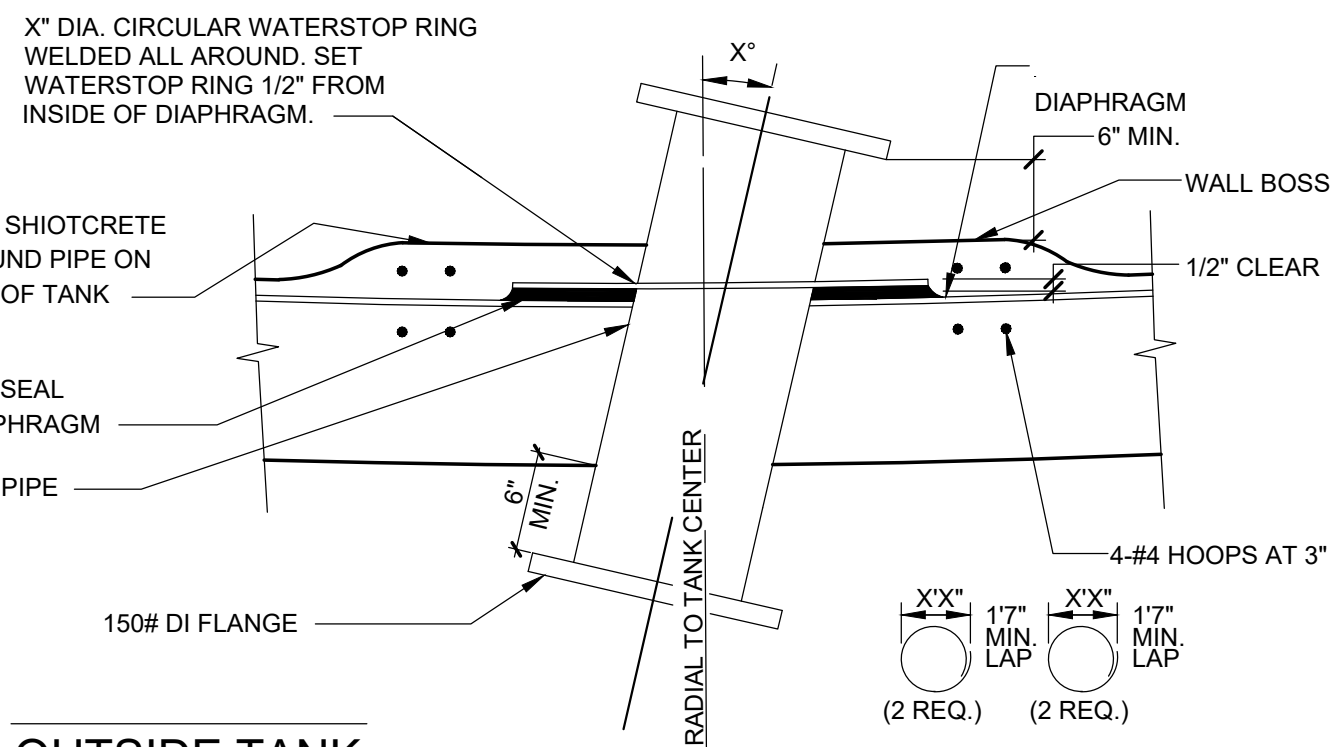
WASTEWATER TREATMENT PLANT EXPANSION
BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06
PRESTRESSED CONCRETE TANK
INFORMATION AND DETAILS



JOB NO.
N16003
 ISSUE DATE
 November 30, 2018
 SCALE
 AS NOTED
 DRAWING NO.
 M-001

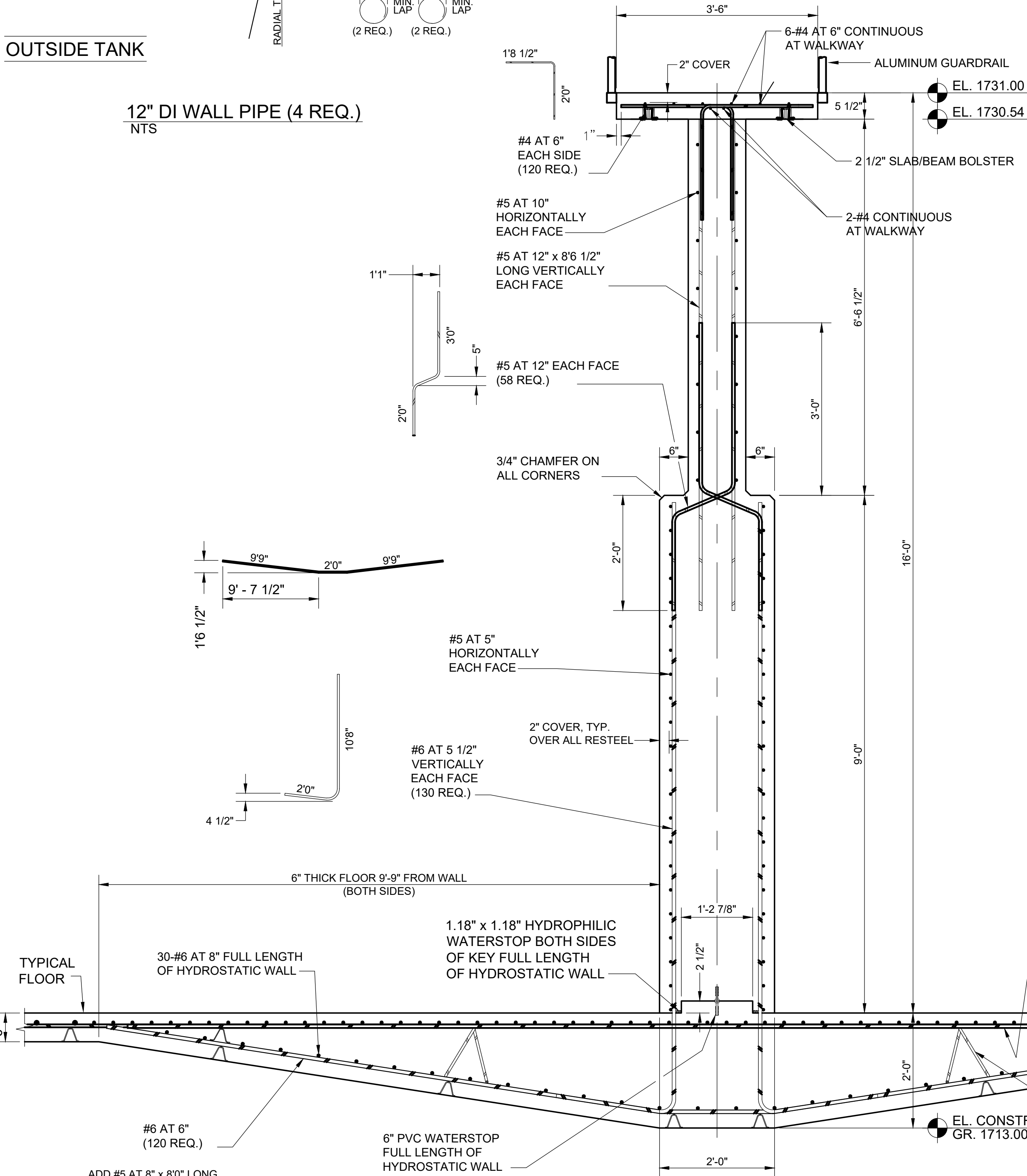
DATE OF PRINT: 4/26/2019 12:00 PM PROJECT: N16003-01 (TN Dept. General Services TDEC) Bledsoe County Correctional Complex DRAWING: CTI-M-002 PRESTRESSED CONCRETE TANK AND INFLUENT EQUALIZATION TANK CENTER WALL DETAILS LAYOUT: GENERAL TANK DETAILS 2

INSIDE TANK



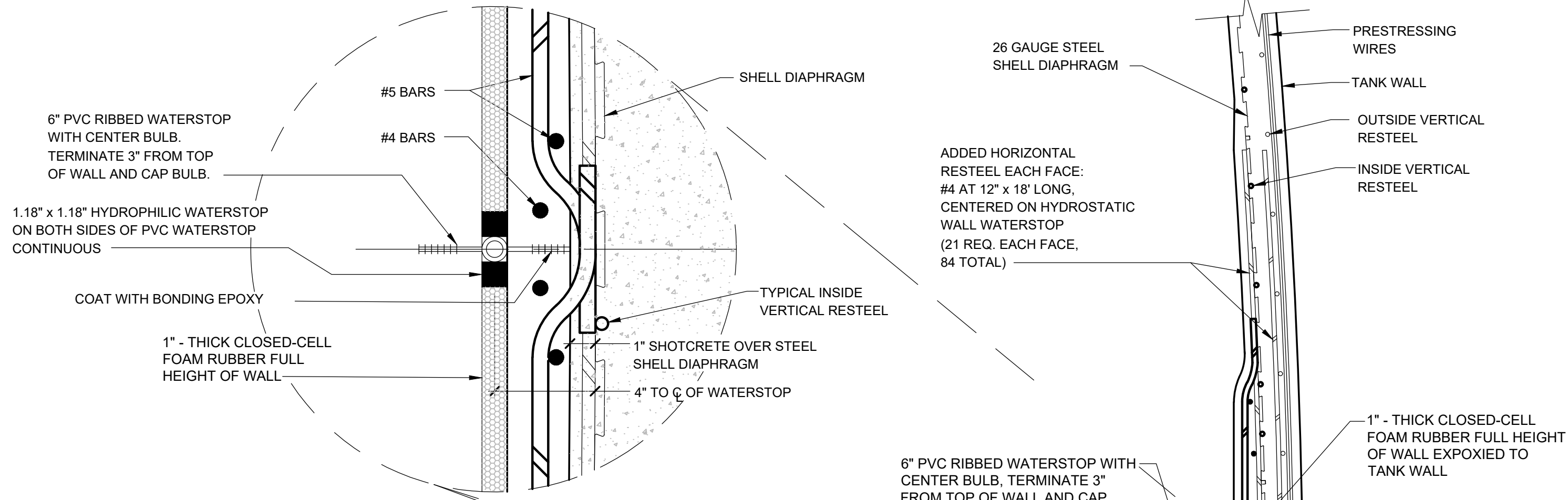
OUTSIDE TANK

12" DI WALL PIPE (4 REQ.)
NTS

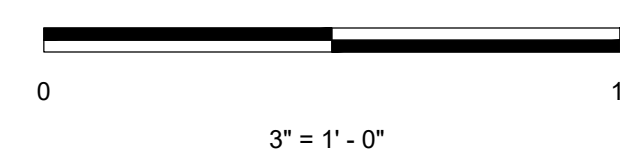


**CONCRETE HYDROSTATIC WALL
(INFLUENT EQUALIZATION BASIN)**

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

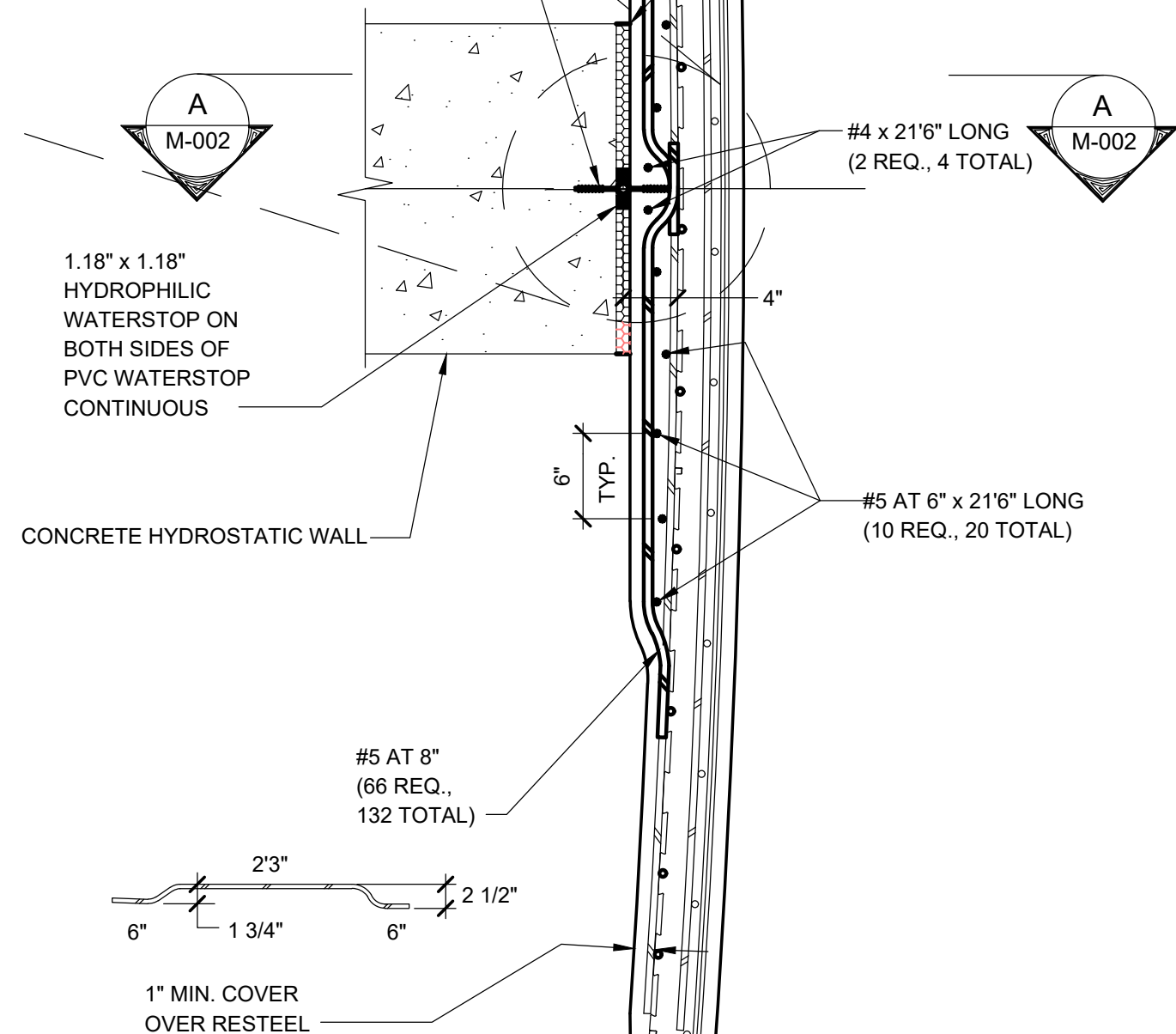


**PLAN
WALL BOSS CONNECTION
AT 2 LOCATIONS**

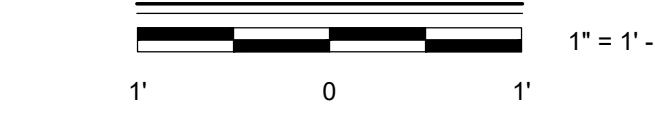


NOTES:

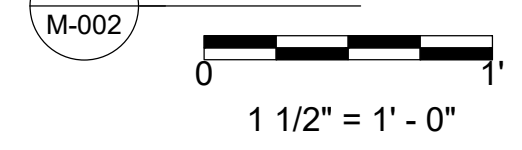
- ELEVATIONS AND DIMENSIONS VARY BY STRUCTURE.
- DETAILS ON THIS DRAWING WERE PROVIDED BY A PRESTRESSED CONCRETE TANK MANUFACTURER. THEY ARE FOR BIDDING INFORMATION ONLY. ACTUAL CONSTRUCTION DETAILS WILL BE DETERMINED THROUGH THE SHOP DRAWING PROCESS WITH THE SELECTED TANK MANUFACTURER.
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**PLAN
WALL BOSS CONNECTION
AT 2 LOCATIONS**



SECTION



REVISIONS	NO.	DATE	BY	APPD.

DESIGN	NH	DRAWN	JRH	CHECKED	NH	APPROVED	NH

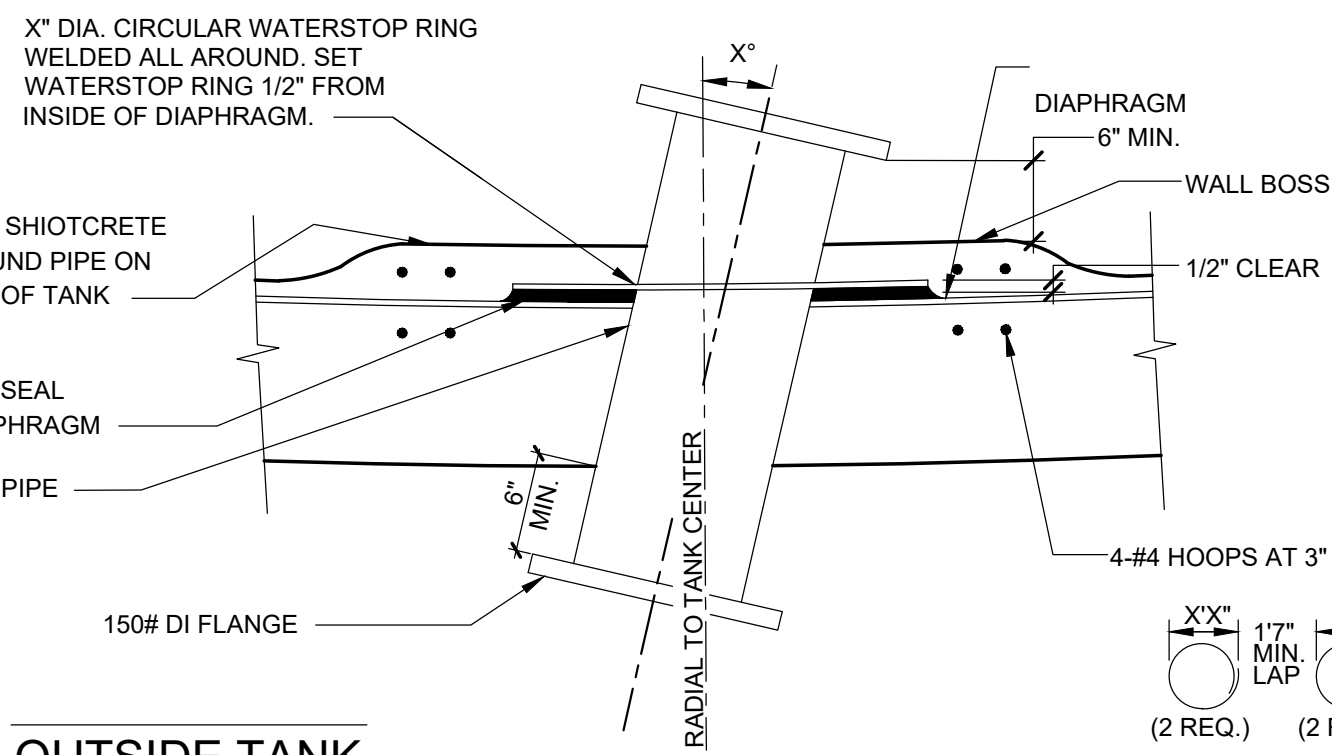
WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06
 PRESTRESSED CONCRETE TANK
 INFLUENT EQUALIZATION TANK
 CENTER WALL DETAILS

ENGINEERS, INC.
 REGISTERED ENGINEERS
 STATE OF TENNESSEE
 3354 PERMIER HILL DRIVE, SUITE 140
 NASHVILLE, TN 37211
 615-834-8900

JOB NO.
 N16003
 ISSUE DATE
 November 30, 2018
 SCALE
 AS NOTED
 DRAWING NO.
 M-002

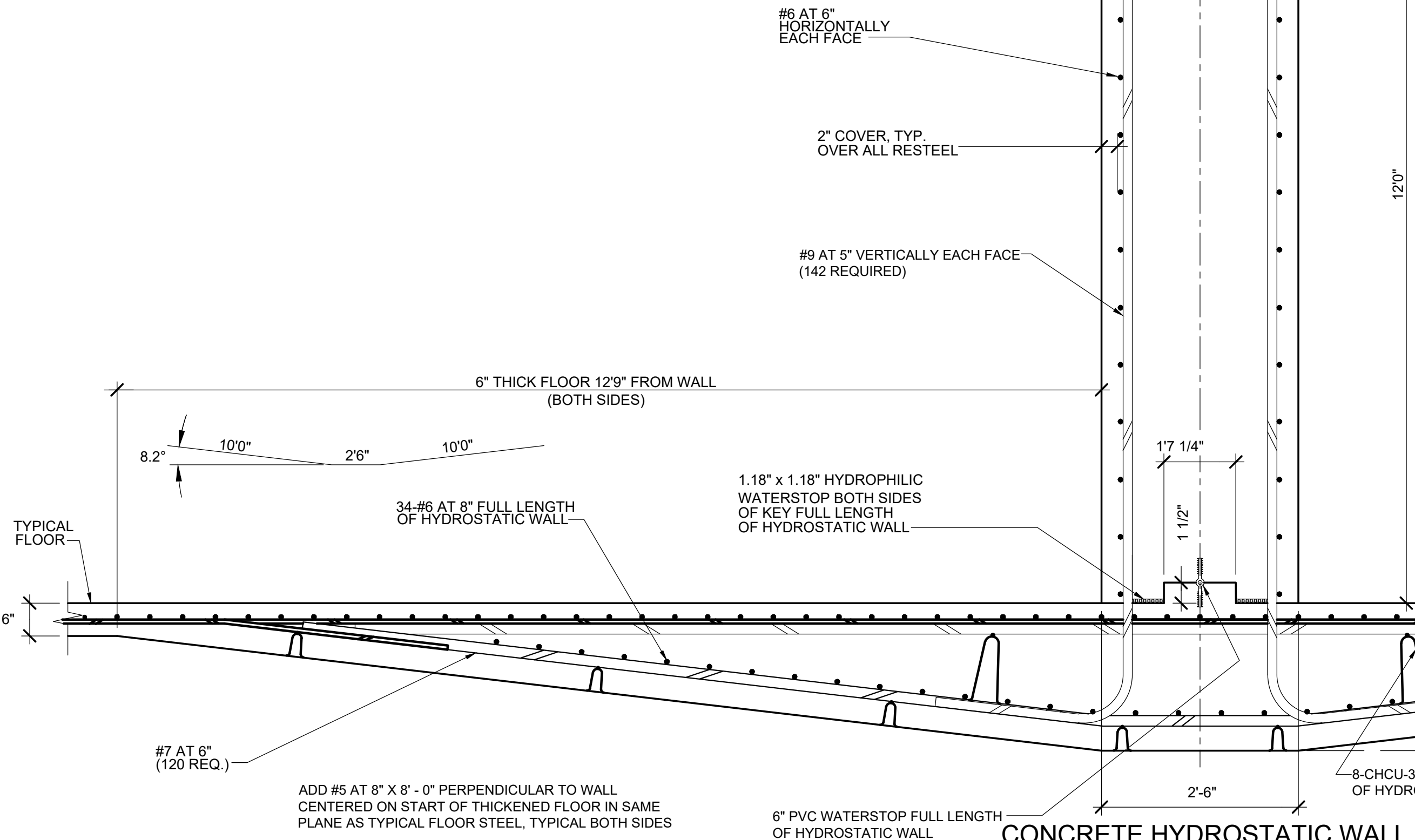
CTI PROJECT: N16003-01 (TN Dept. General Services IDEC) Bledsoe County Correctional Complex, DRAWING: CTI, M-003 PRESTRESSED CONCRETE TANK AND AEROBIC DIGESTER CENTER WALL DETAILS (658437/23214119 2:58PM) LAYOUT, M-003
DATE OF PRINT: 4/28/2019 7:39 AM

INSIDE TANK



OUTSIDE TANK

12" DI WALL PIPE (4 REQ.)
NTS

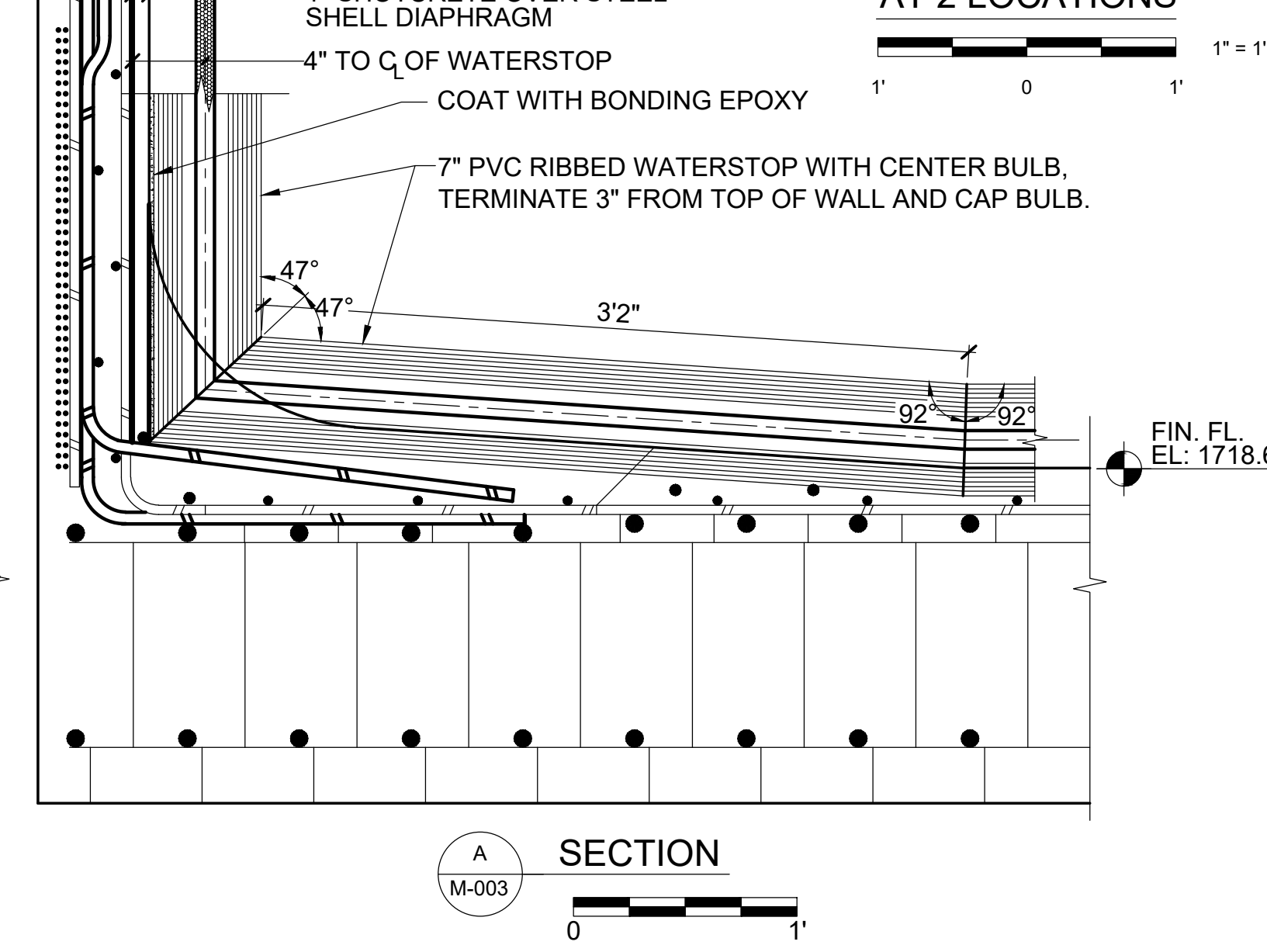


PLAN WALL BOSS CONNECTION AT 2 LOCATIONS

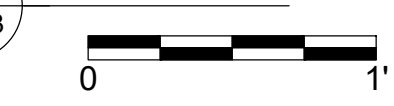
NOTES:

- ELEVATIONS AND DIMENSIONS VARY BY STRUCTURE.
- DETAILS ON THIS DRAWING WERE PROVIDED BY A PRESTRESSED CONCRETE TANK MANUFACTURER. THEY ARE FOR BIDDING INFORMATION ONLY. ACTUAL CONSTRUCTION DETAILS WILL BE DETERMINED THROUGH THE SHOP DRAWING PROCESS WITH THE SELECTED TANK MANUFACTURER.
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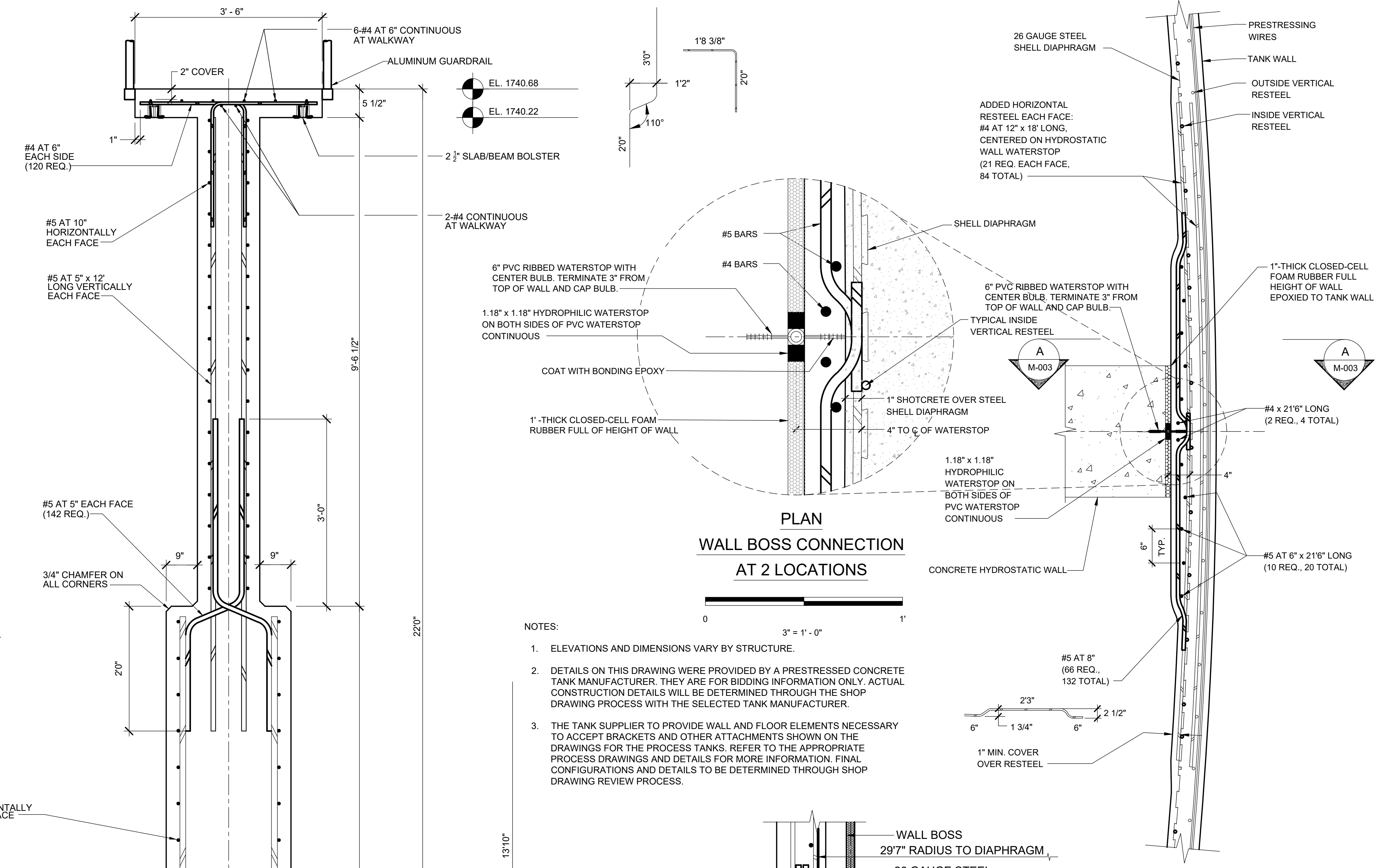
PLAN WALL BOSS CONNECTION AT 2 LOCATIONS



SECTION



DATE OF PRINT: 4/28/2019 7:39 AM



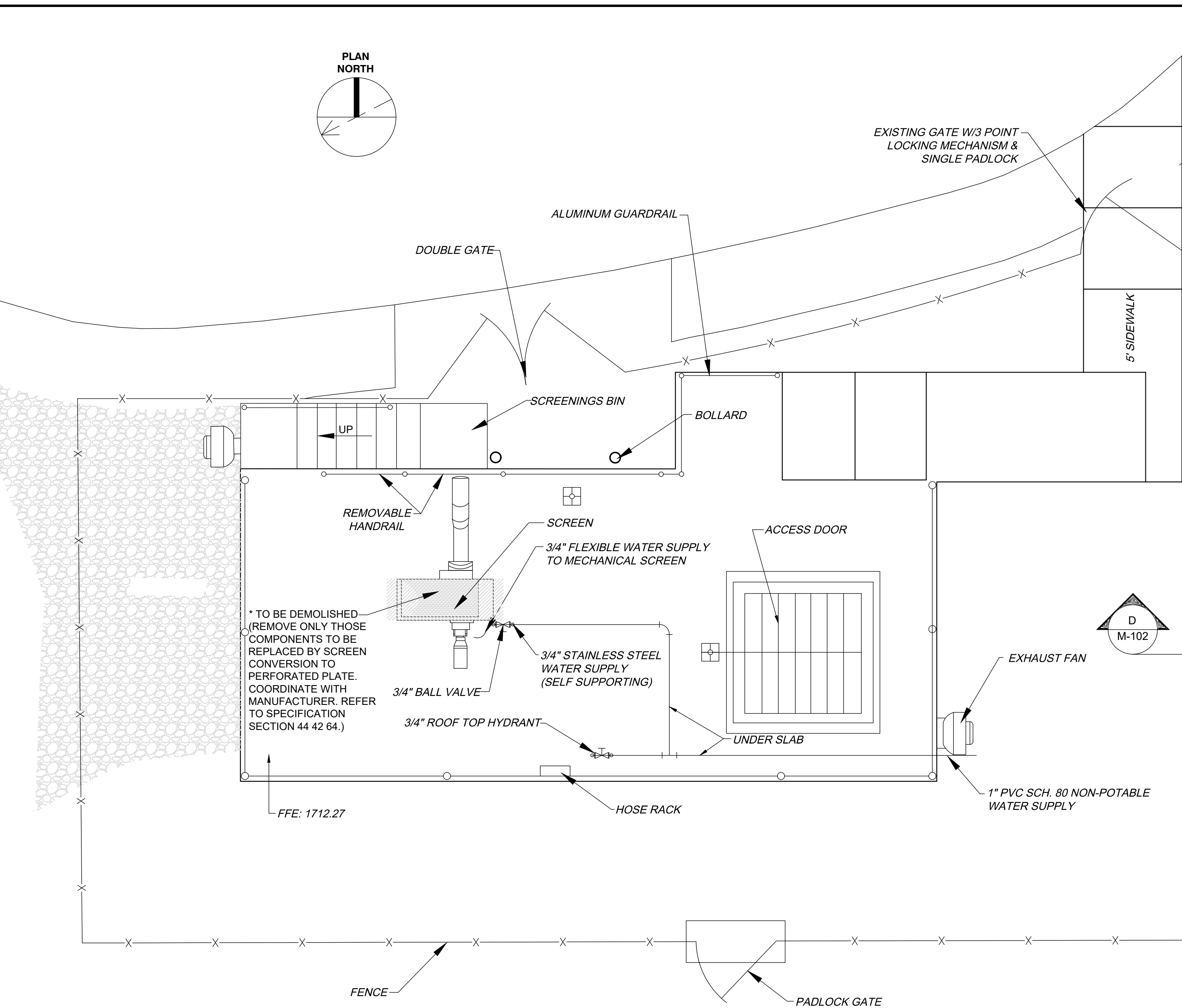
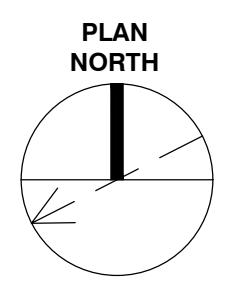
REVISIONS	NO.	DATE	BY	APPD

DESIGN	DRAWN	CHECKED	APPROVED
NH	JRH	NH	NH

WASTEWATER TREATMENT PLANT EXPANSION
BLEDSOE COUNTY CORRECTIONAL COMPLEX
PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06
PRESTRESSED CONCRETE TANK
AND AEROBIC DIGESTER
CENTER WALL DETAILS

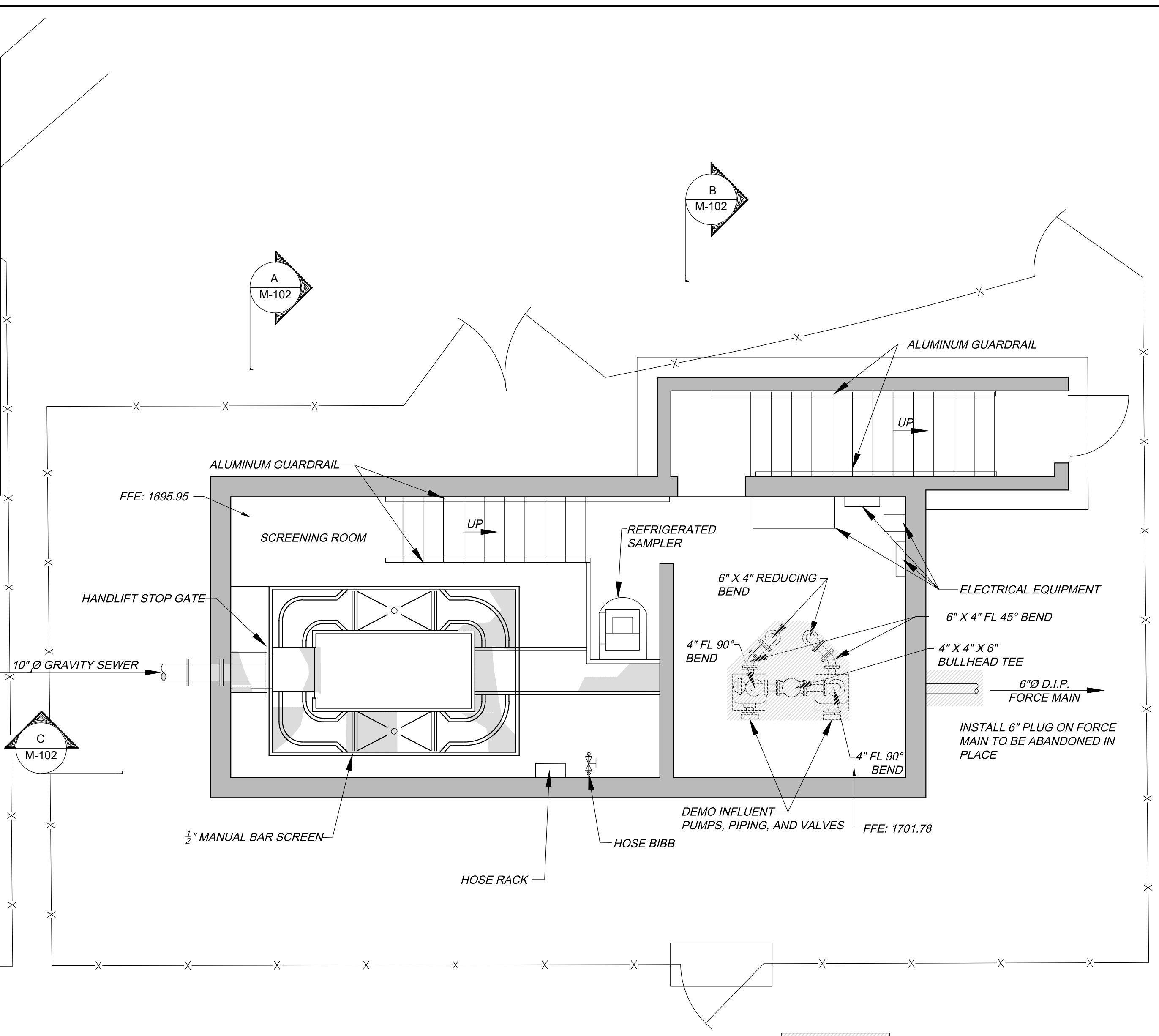
JOB NO.	N16003
ISSUE DATE	November 30, 2018
SCALE	AS NOTED
DRAWING NO.	M-003

DATE OF PRINT: 3/14/2019 3:05 PM C.T. PROJECT: N16003-01 (TN Dept. General Services TDEC) Bledsoe County Correctional Complex, DRAWING: C.T. - M-101 EXISTING INFLUENT PUMP STATION DEMOLITION PLAN (565368v20/3/14/19 3:00PM), LAYOUT: C.T.

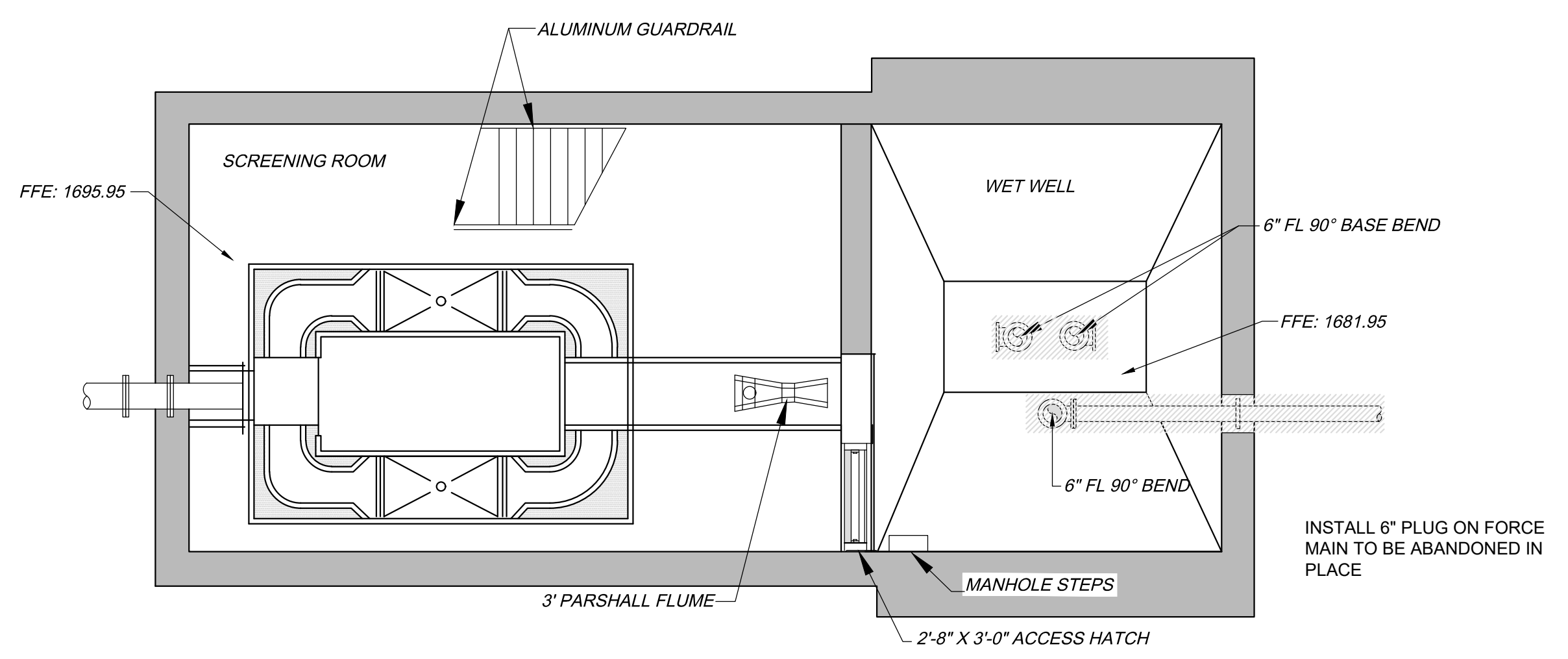


UPPER FLOOR PLAN
 1 0 2 4 6
 SCALE: 1/4" = 1'-0"

NOTE:
 PLAN AND SCHEDULE DEMOLITION AND INSTALLATION TO MAINTAIN WWTP OPERATION. PROVIDE TEMPORARY PUMPS IF NECESSARY.



LOWER FLOOR PLAN
 1 0 2 4 6
 SCALE: 1/4" = 1'-0"



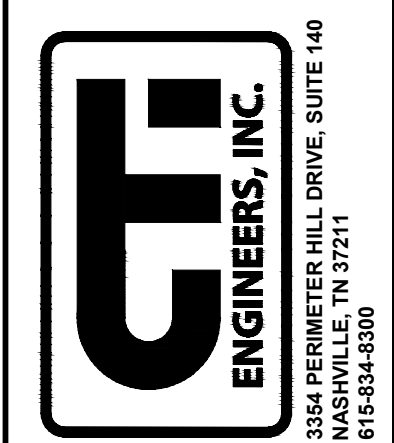
CHANNEL & WETWELL PLAN
 1 0 2 4 6
 SCALE: 1/4" = 1'-0"

REVISIONS	
NO.	DESCRIPTIONS

DESIGN: NH
 DRAWN: JRH
 CHECKED: NH
 APPROVED: NH

WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SEC PROJECT 142/013-01-2013-06

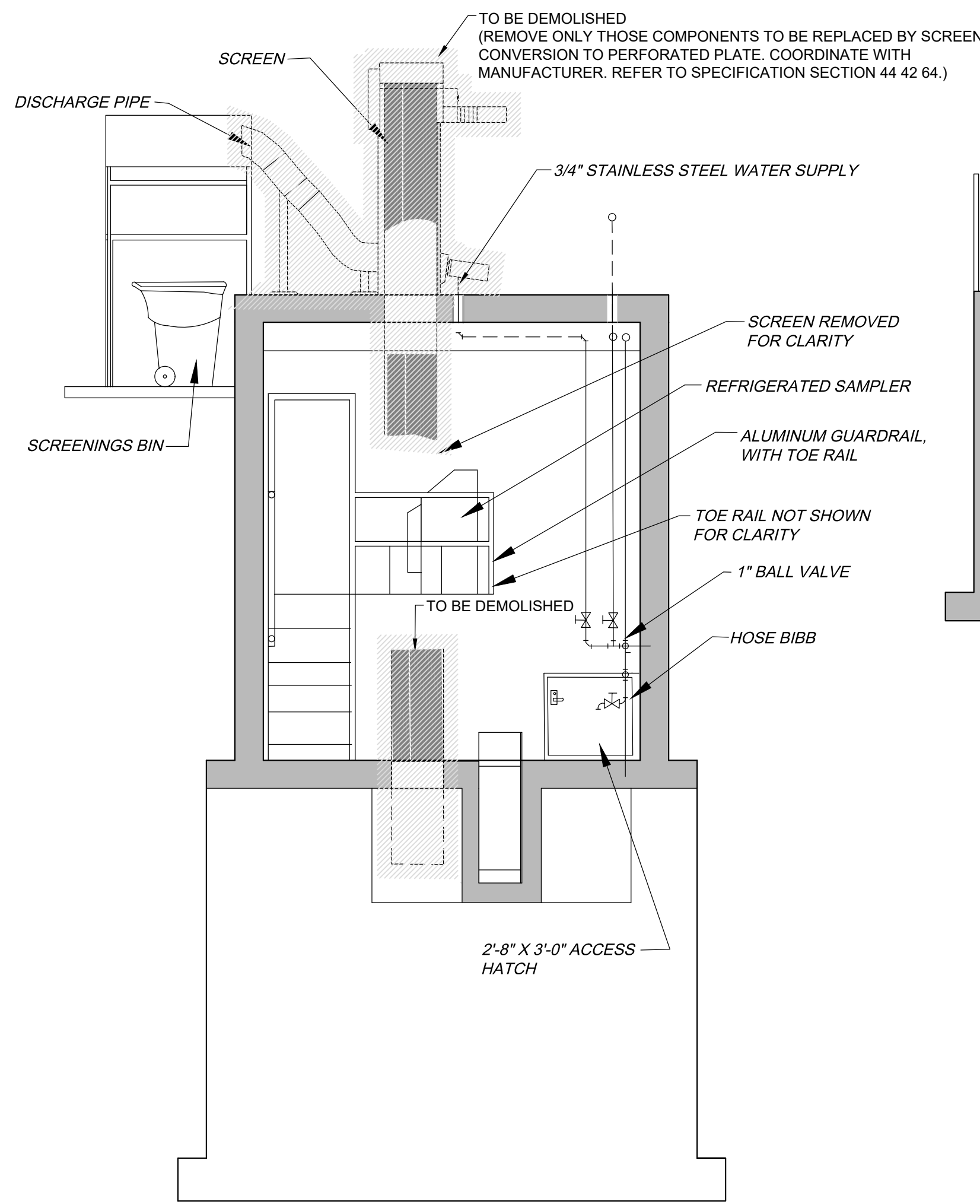
**EXISTING INFLUENT PUMP STATION
 DEMOLITION PLAN**



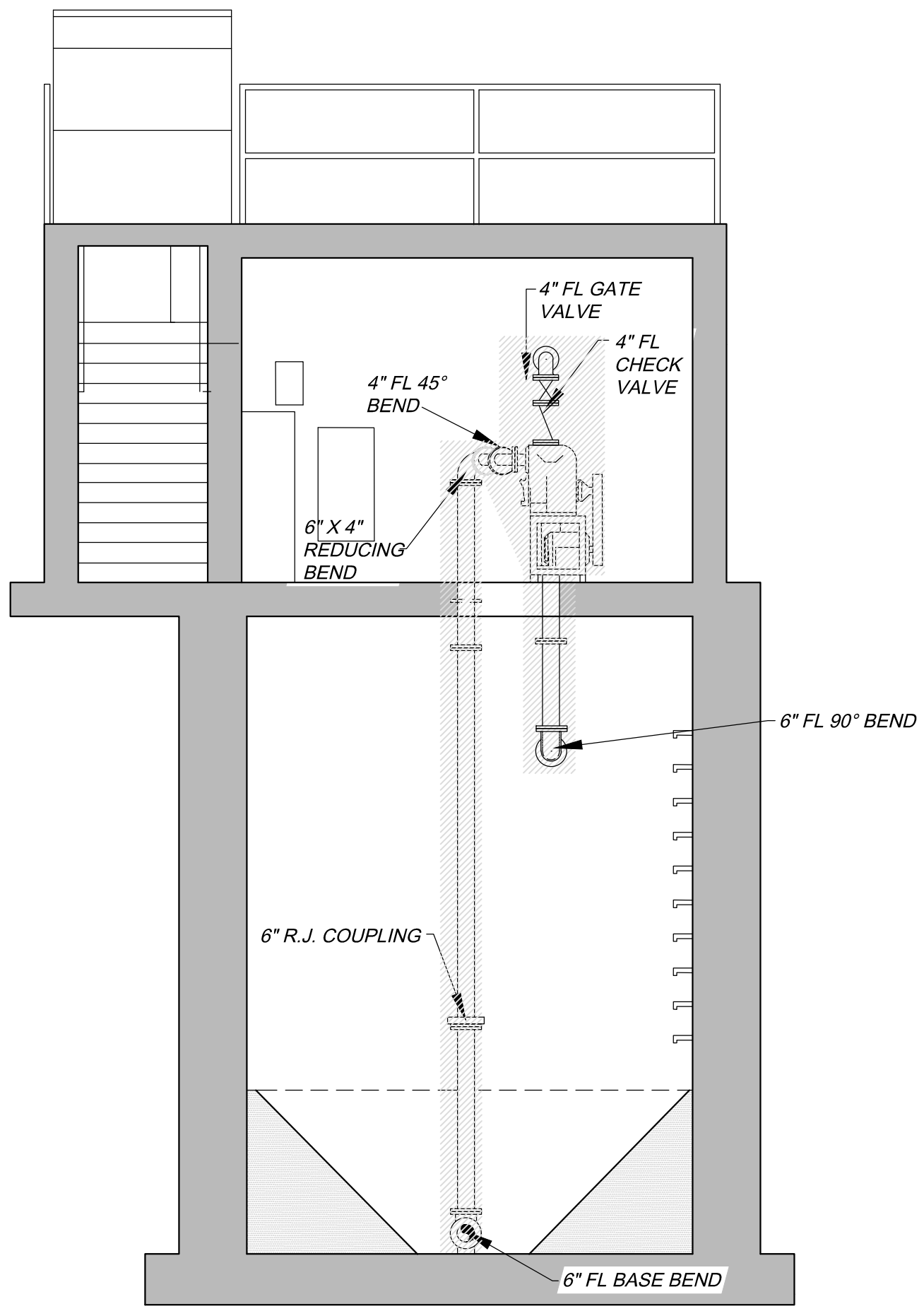
JOB NO.
 N16003
 ISSUE DATE
 November 30, 2018
 SCALE
 1/4" = 1' - 0"
 DRAWING NO.
 M-101

CTI PROJECT: N16003-01 (TN Dept. General Services, TDEC) Bledsoe County Correctional Complex, DRAWING: CTI - M-102 EXISTING INFLUENT PUMP STATION DEMOLITION SECTIONS (665372/16/2/2019 9:14AM), LAYOUT: M-102

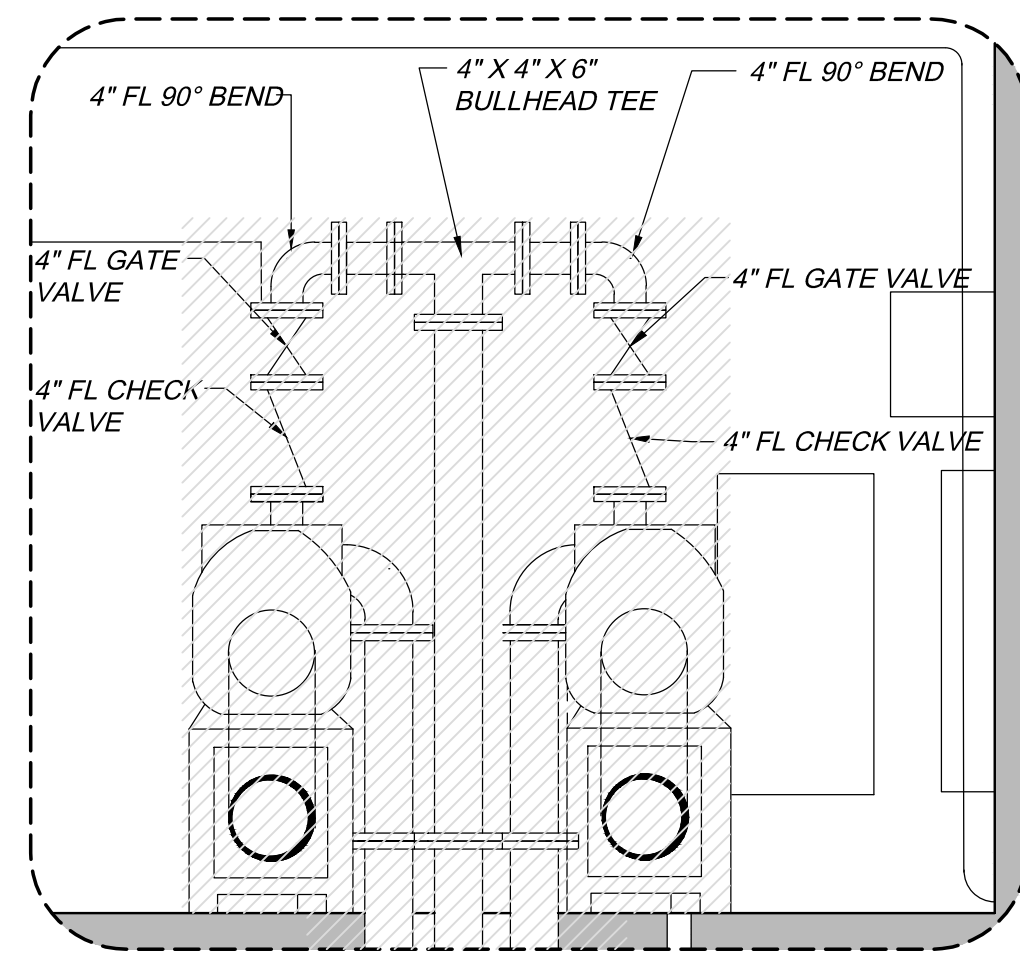
DATE OF PRINT: 3/14/2019 3:00 PM



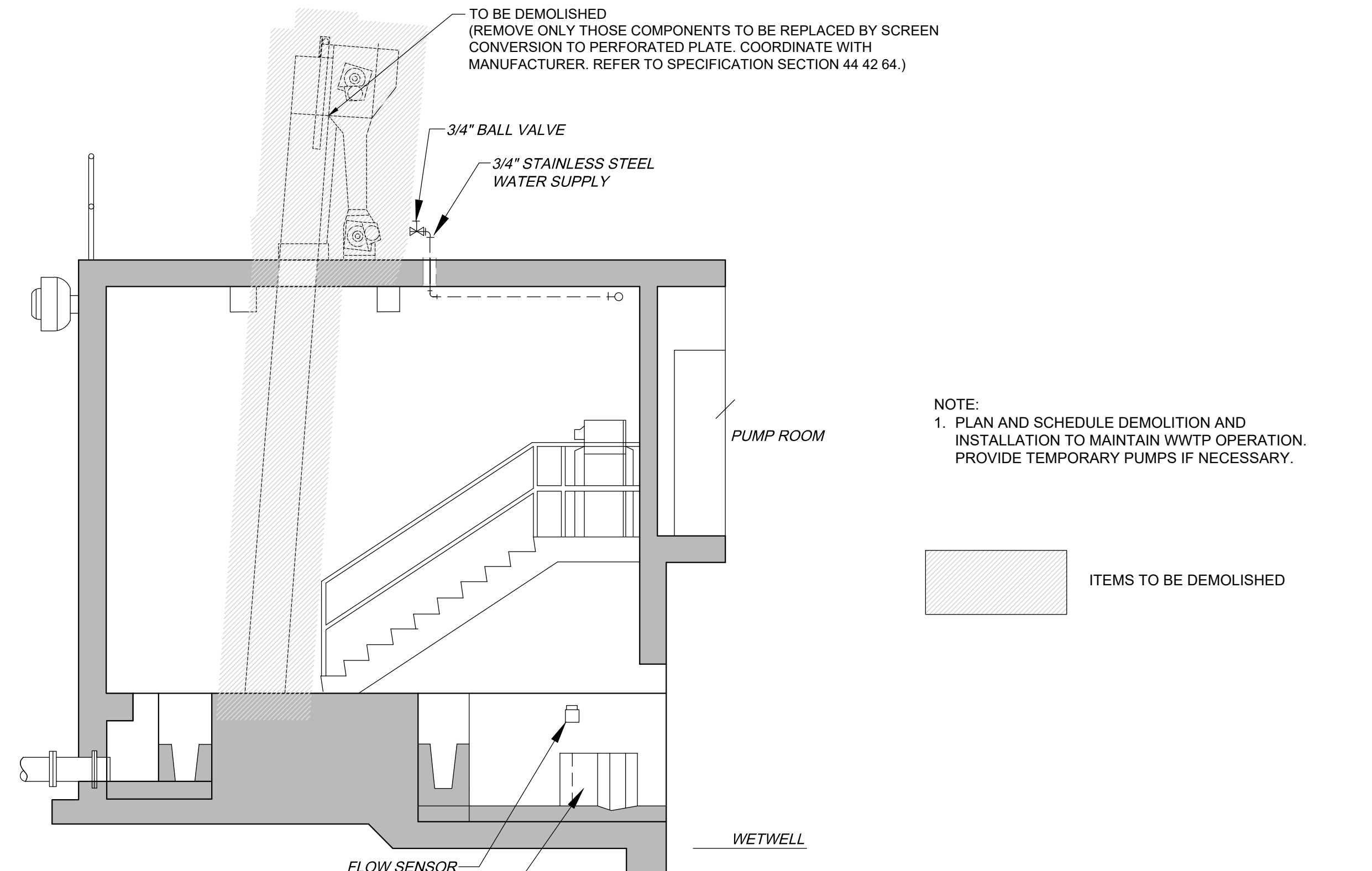
A SECTION
M-101
SCALE: 1/4" = 1'-0"



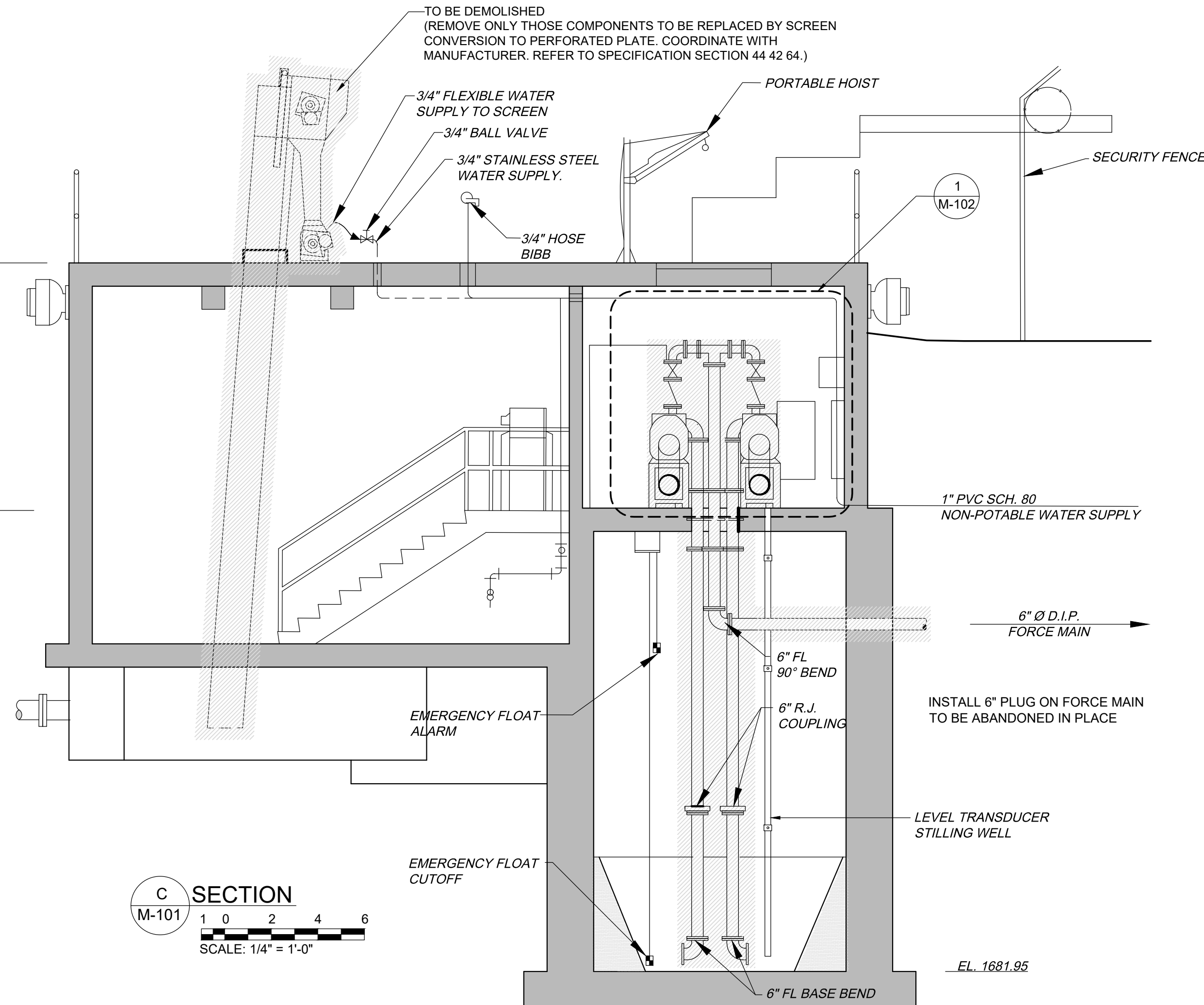
B SECTION
M-101
SCALE: 1/4" = 1'-0"



1 DETAIL 1
M-102/NTS



D SECTION
M-101
SCALE: 1/4" = 1'-0"



C SECTION
M-101
SCALE: 1/4" = 1'-0"

NOTE:
1. PLAN AND SCHEDULE DEMOLITION AND INSTALLATION TO MAINTAIN WWTP OPERATION. PROVIDE TEMPORARY PUMPS IF NECESSARY.

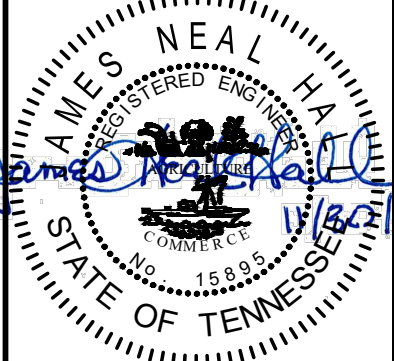
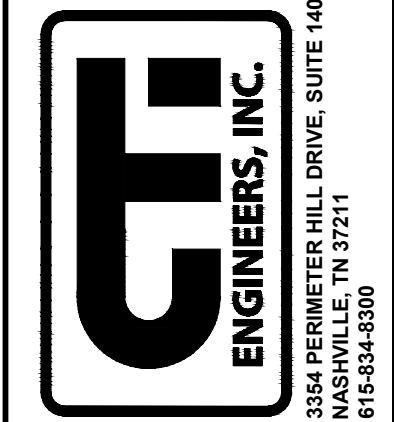
ITEMS TO BE DEMOLISHED

NO.	REVISIONS		DATE	BY	APPD
	DESCRIPTIONS				

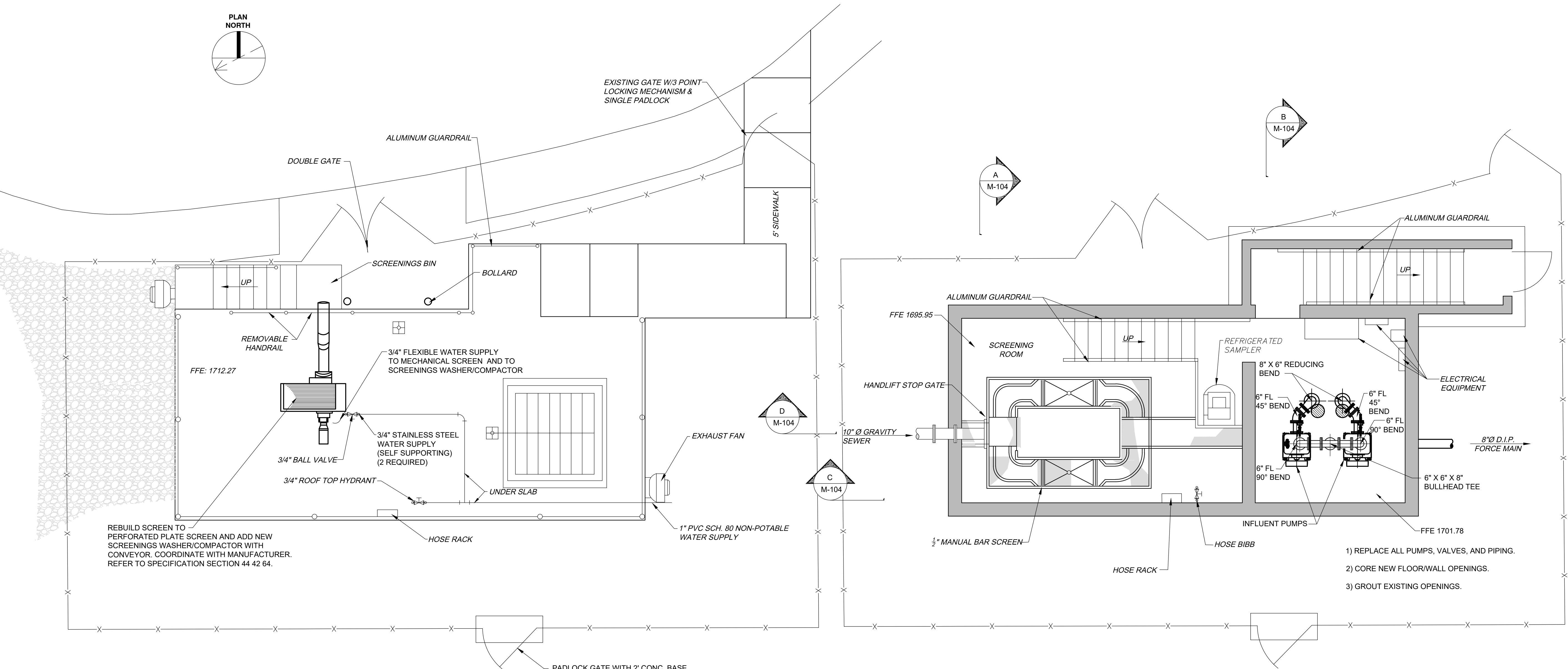
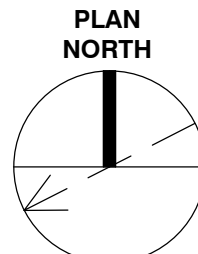
DESIGN: NH
DRAWN: JRH
CHECKED: NH
APPROVED: NH

WASTEWATER TREATMENT PLANT EXPANSION
BLEDSOE COUNTY CORRECTIONAL COMPLEX
PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

EXISTING INFLUENT PUMP STATION
DEMOLITION SECTIONS



JOB NO.
N16003
ISSUE DATE
November 30, 2018
SCALE
AS NOTED
DRAWING NO.
M-102

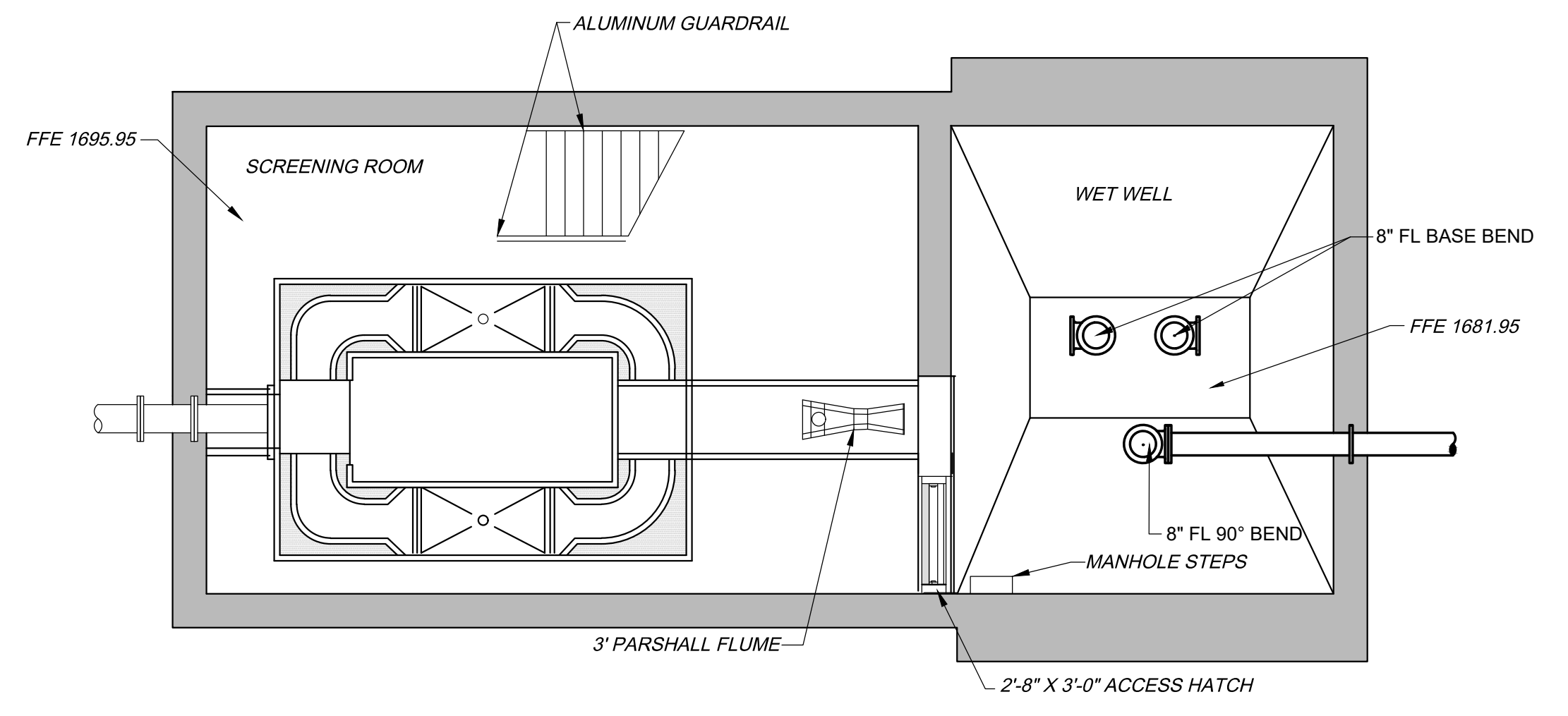


REBUILD SCREEN TO PERFORATED PLATE SCREEN AND ADD NEW SCREENINGS WASHER/COMPACTOR WITH CONVEYOR. COORDINATE WITH MANUFACTURER. REFER TO SPECIFICATION SECTION 44 42 64.

UPPER FLOOR PLAN
 1 0 2 4 6
 SCALE: 1/4" = 1'-0"

LOWER FLOOR PLAN
 1 0 2 4 6
 SCALE: 1/4" = 1'-0"

NOTE:
 PLAN AND SCHEDULE DEMOLITION AND INSTALLATION TO MAINTAIN WWTP OPERATION. PROVIDE TEMPORARY PUMPS IF NECESSARY.



CHANNEL & WETWELL PLAN
 1 0 2 4 6
 SCALE: 1/4" = 1'-0"

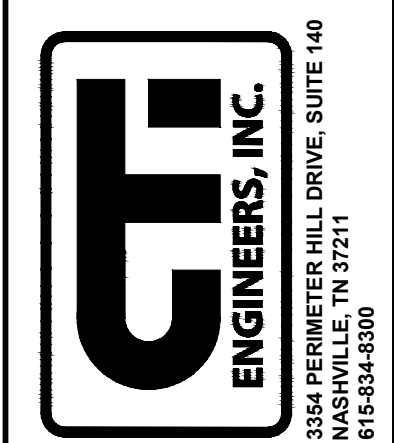
- 1) REPLACE ALL PUMPS, VALVES, AND PIPING.
- 2) CORE NEW FLOORWALL OPENINGS.
- 3) GROUT EXISTING OPENINGS.

REVISIONS	NO.	DESCRIPTIONS	DATE	BY	APPD

DESIGN: NH
 DRAWN: JRH
 CHECKED: NH
 APPROVED: NH

WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

INFLUENT PUMP STATION IMPROVEMENTS PLAN



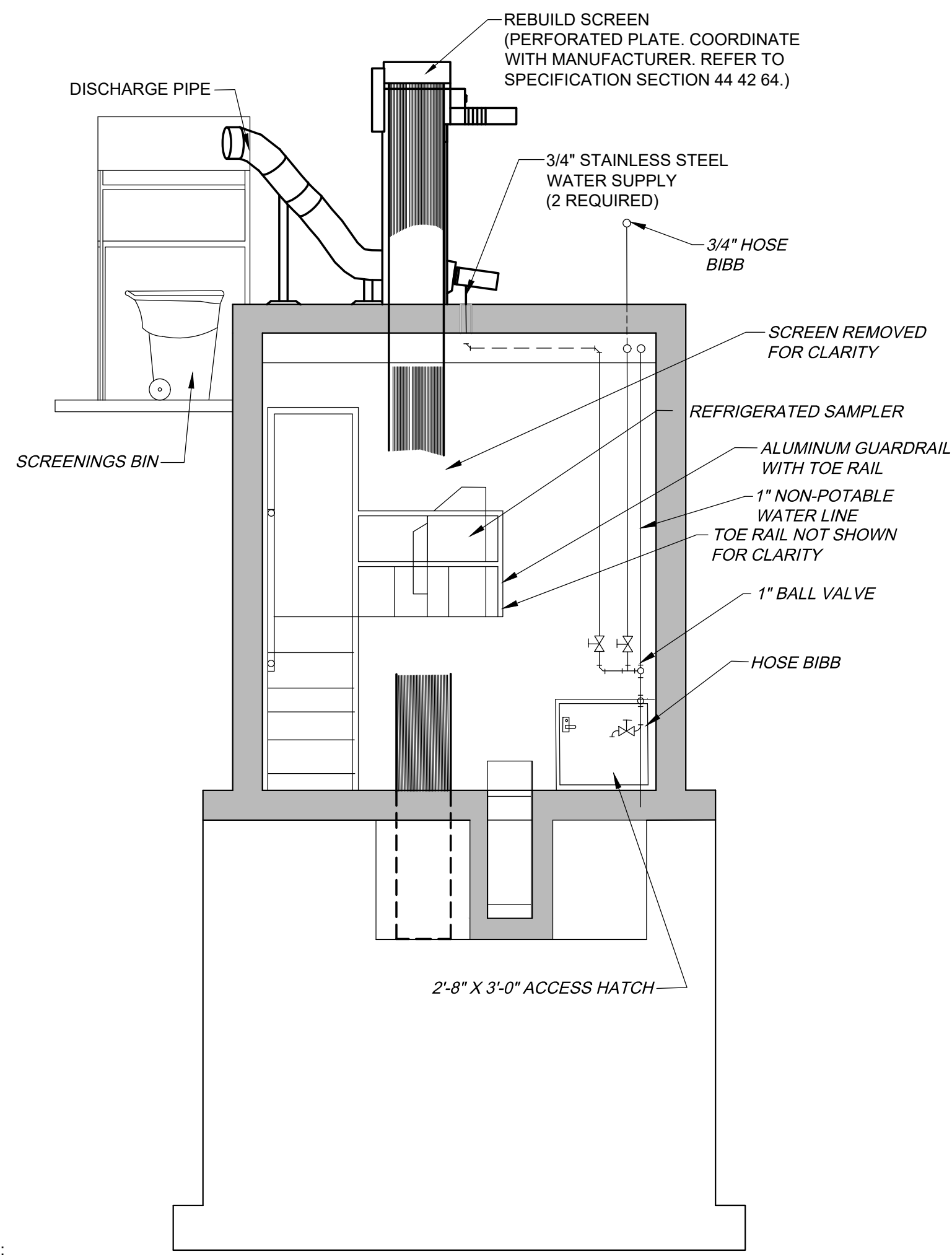
JOB NO.
 N16003

ISSUE DATE
 November 30, 2018

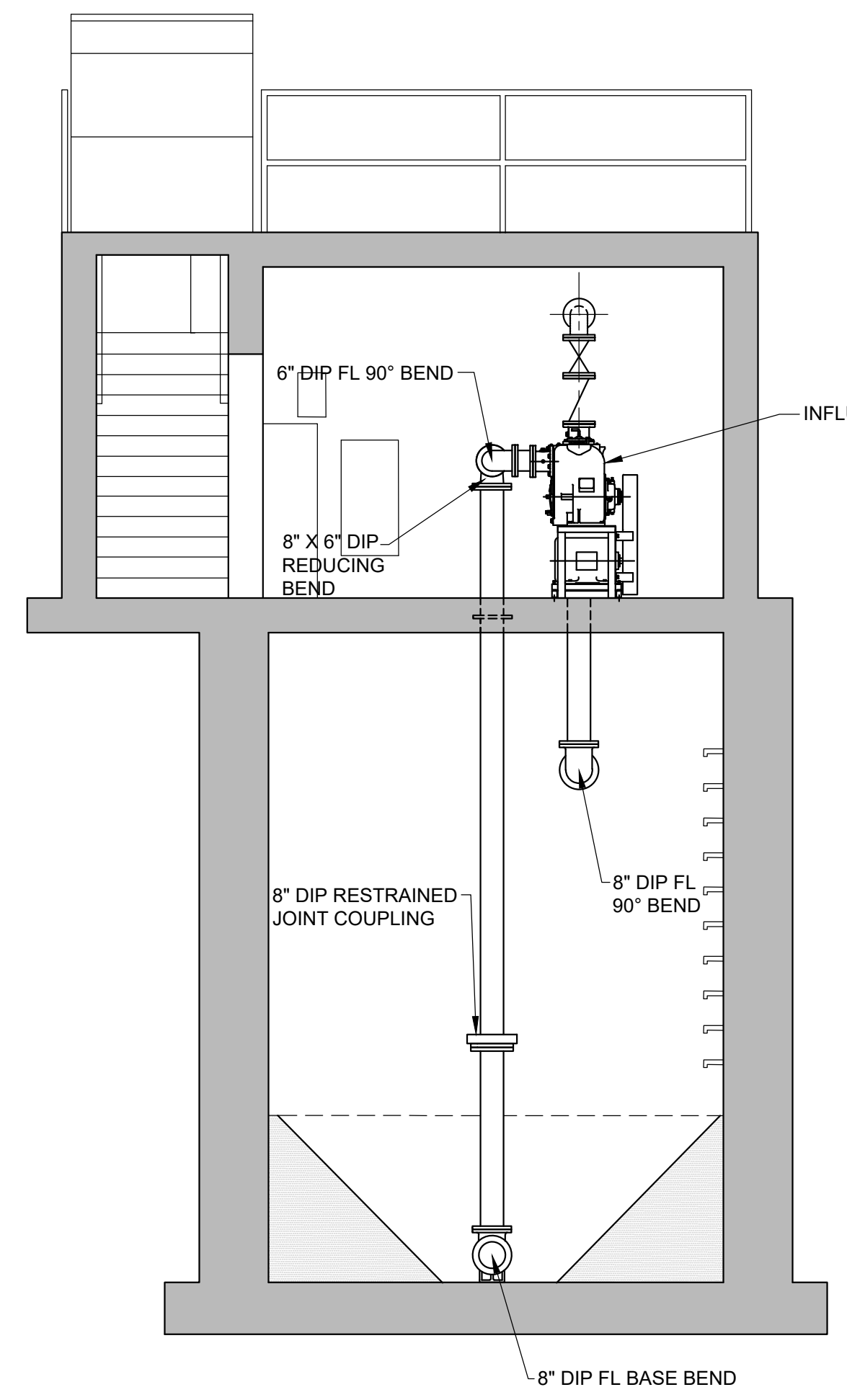
SCALE
 1/4" = 1' - 0"

DRAWING NO.
 M-103

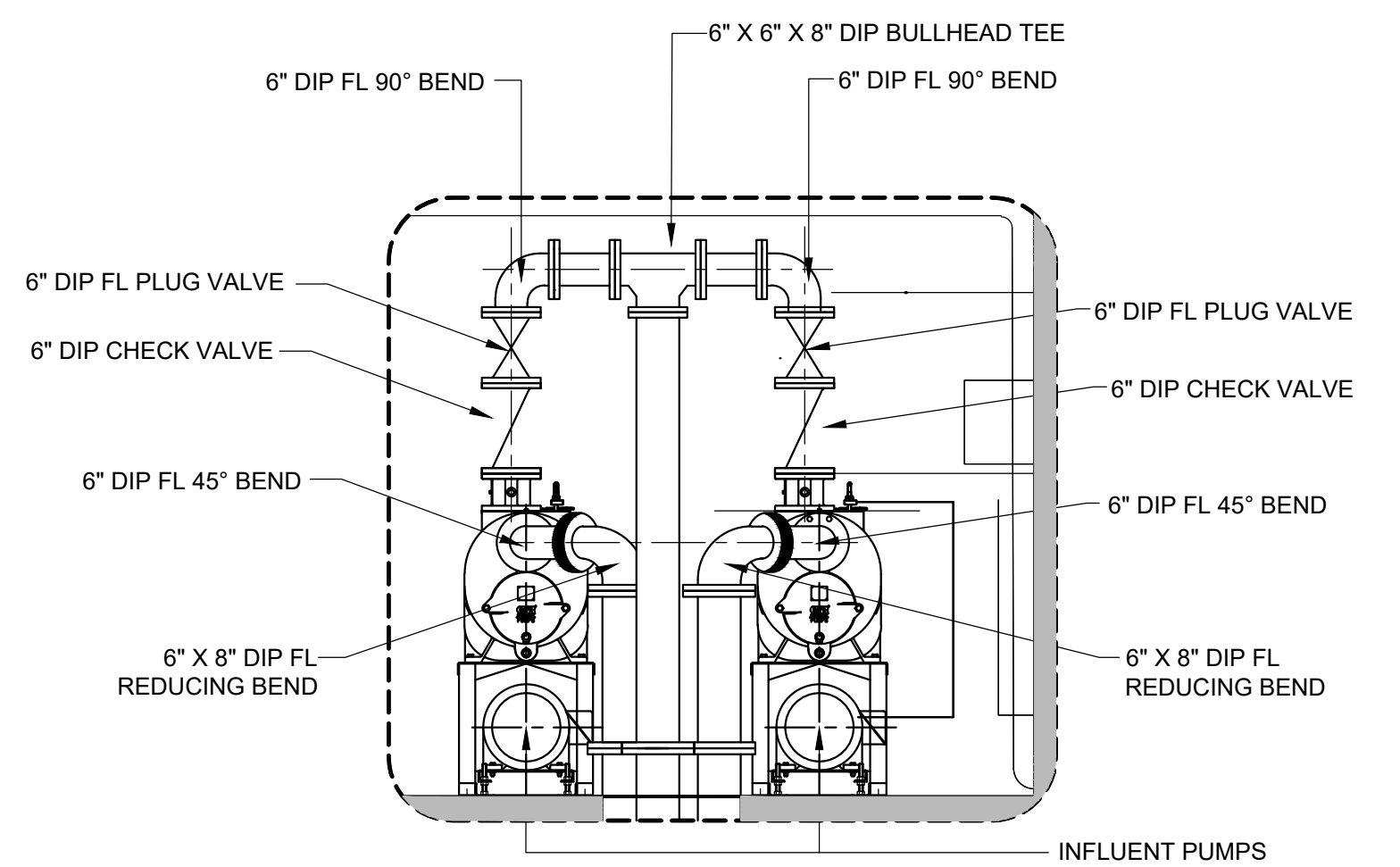
DATE OF PRINT: 2/28/2019 8:00AM PROJECT: N16003-01 (TN Dept. General Services TDEC) Bledsoe County Correctional Complex, DRAWING: CTI - M-104 INFLUENT PUMP STATION IMPROVEMENTS SECTIONS (565376v18/2/26/19 8:07AM), LAYOUT: PUMP SECTIONS



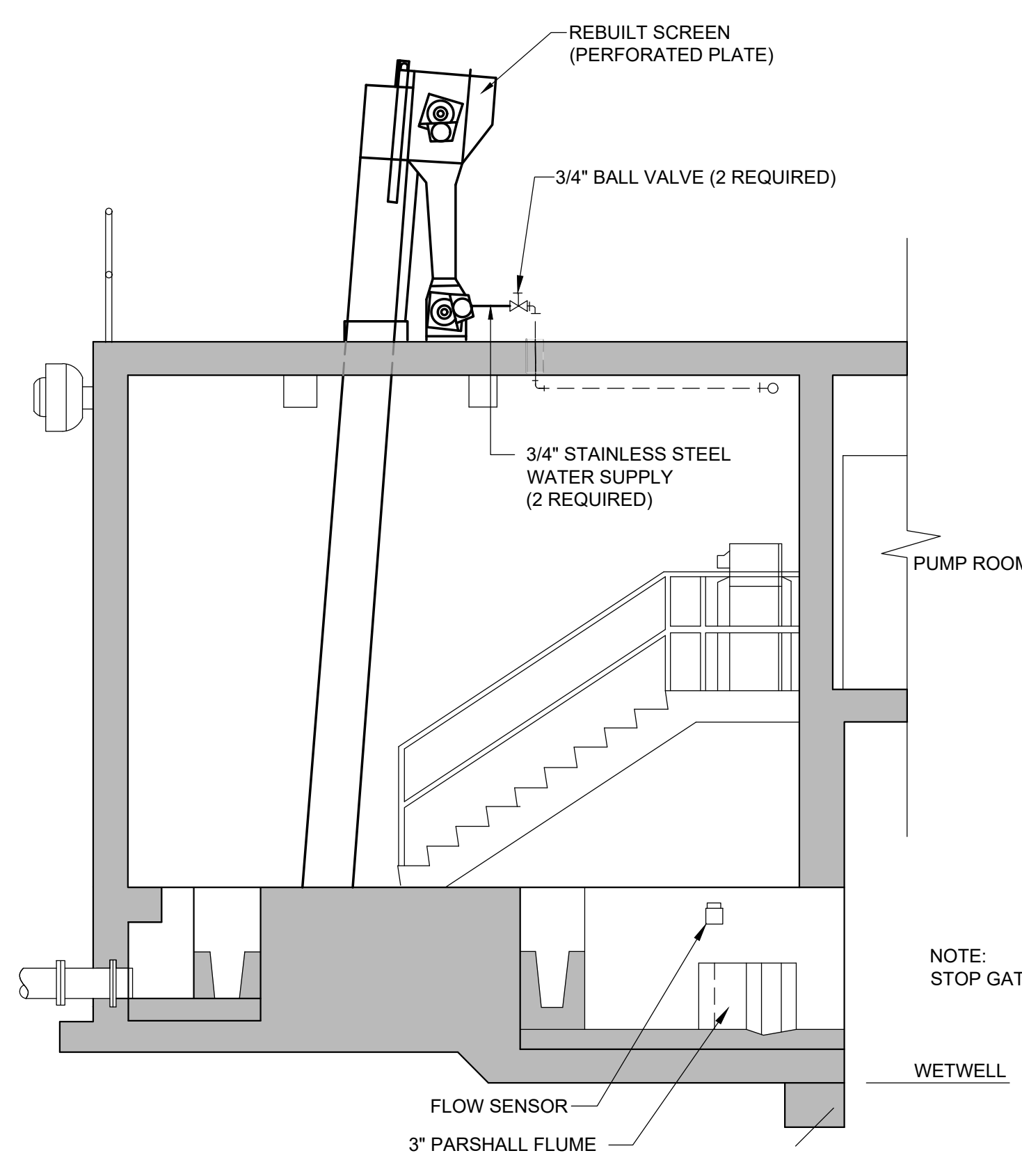
A SECTION
M-103
SCALE: 1/4" = 1'-0"



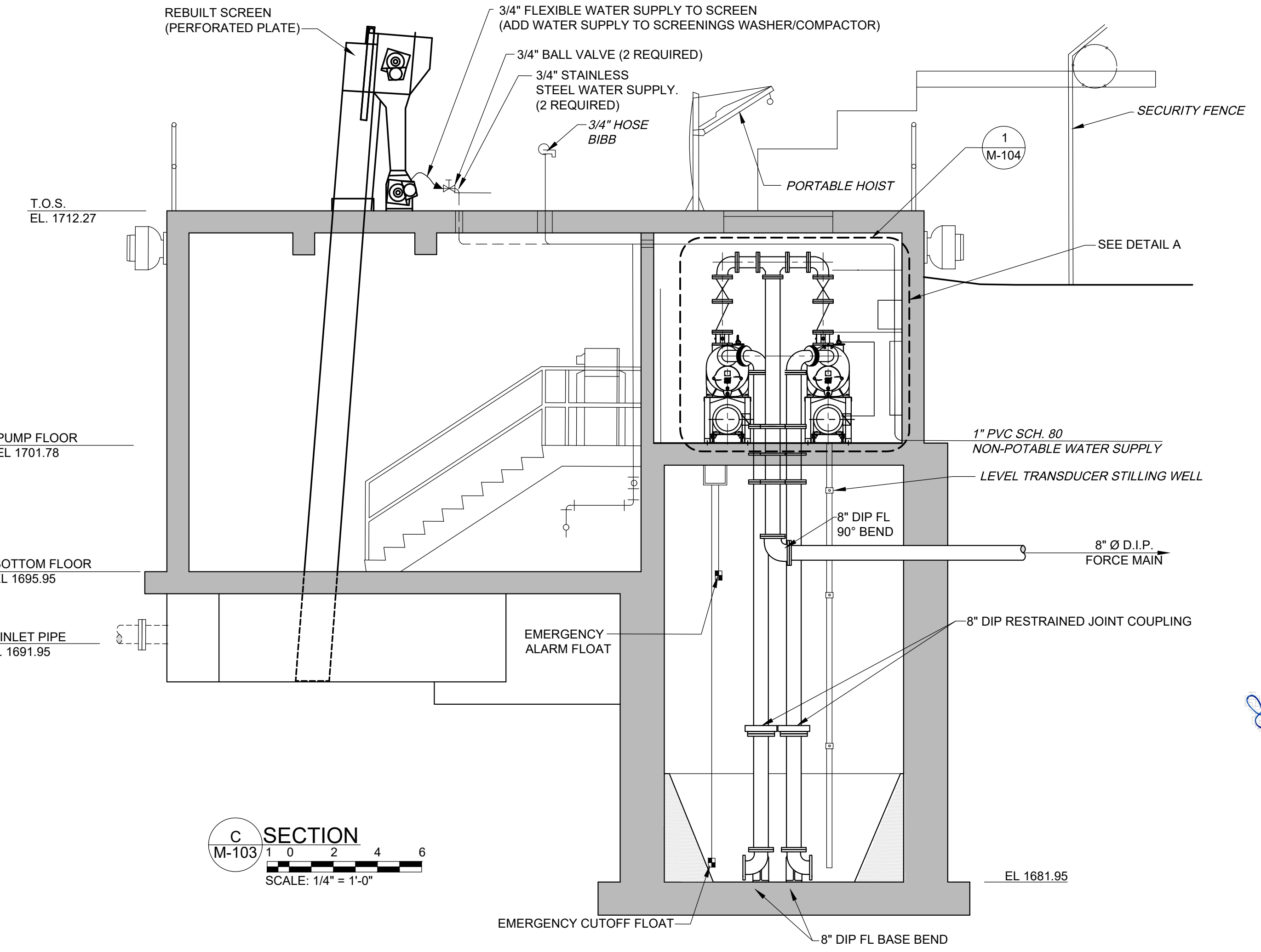
B SECTION
M-103
SCALE: 1/4" = 1'-0"



1 DETAIL
M-104
NTS



D SECTION
M-103
SCALE: 1/4" = 1'-0"



C SECTION
M-103
SCALE: 1/4" = 1'-0"

- NOTES:
1. ABOVE GROUND PIPES TO BE INSULATED WITH FOAM GLAS INSULATION WITH 0.16" THICK ALUMINUM JACKET AND ALUMINUM BANDING. CAULKING SEAL JOINTS.
 2. PROVIDE 5 WATT /FT. HEAT TRACING ON ABOVE GROUND WATERLINES AND VALVES.

NOTE:
PLAN AND SCHEDULE DEMOLITION AND INSTALLATION TO MAINTAIN WWTP OPERATION. PROVIDE TEMPORARY PUMPS IF NECESSARY.

NOTE:
STOP GATES REMOVED THIS VIEW ONLY FOR CLARITY

REVISIONS		DESIGN	DRAWN	CHECKED	APPROVED
NO.	DESCRIPTIONS	NH	JRH	NH	NH

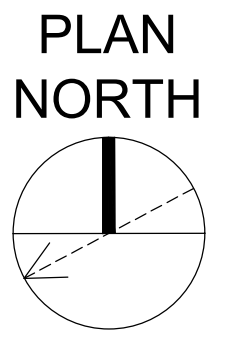
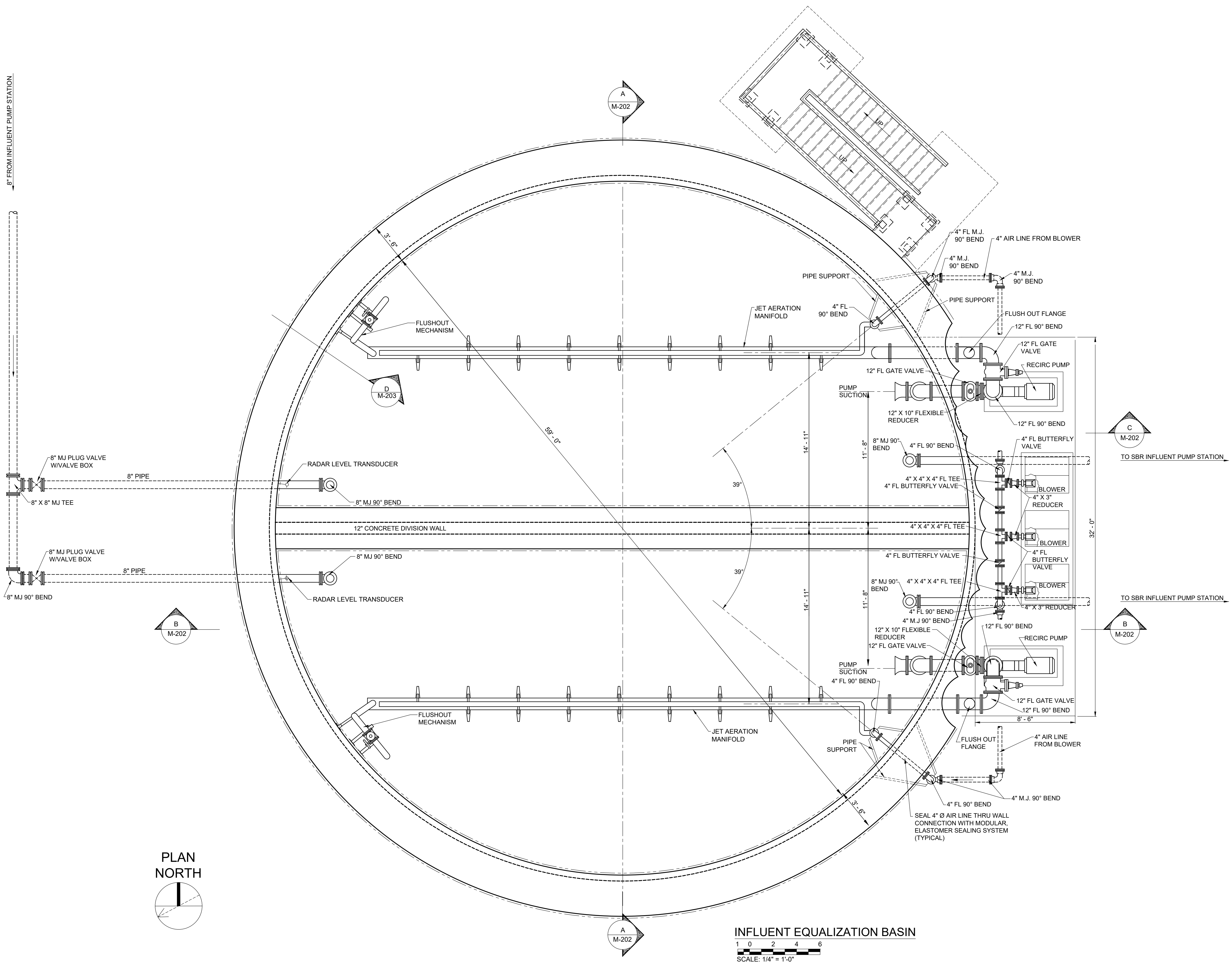
WASTEWATER TREATMENT PLANT EXPANSION
BLEDSOE COUNTY CORRECTIONAL COMPLEX
PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

ENGINEERS, INC.
3354 PERMIER HILL DRIVE, SUITE 140
NASHVILLE, TN 37211
615-834-8900

REGISTERED ENGINEER
STATE OF TENNESSEE
No. 15889

JOB NO.
N16003
ISSUE DATE
November 30, 2018
SCALE
AS NOTED
DRAWING NO.
M-104

DATE OF PRINT: 3/14/2019 3:08 PM
 CTI PROJECT: N16003-01 (TN Dept. General Services TDEC) Bledsoe County Correctional Complex, DRAWING: CTI-N16003-01-201 INFLUENT EQUALIZATION BASIN PLAN (56537/2731119 10:15AM), LAYOUT: m-201

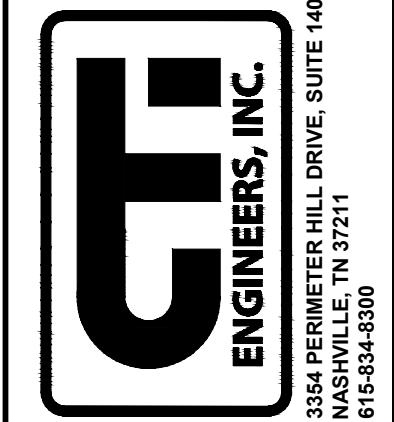


INFLUENT EQUALIZATION BASIN
 1 0 2 4 6
 SCALE: 1/4" = 1'-0"

REVISIONS		DATE	BY	APPD
NO.	DESCRIPTIONS			

DESIGN	DRAWN	CHECKED	APPROVED
NH	JRH	NH	NH

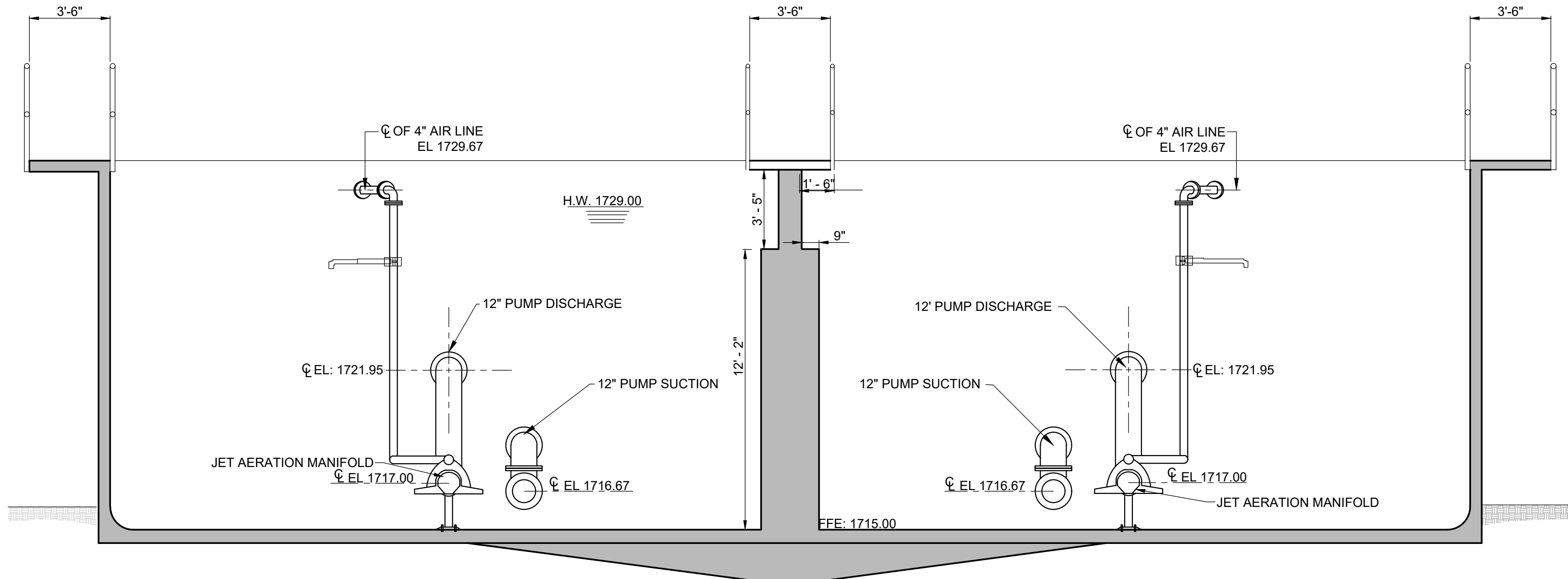
WASTEWATER TREATMENT PLANT EXPANSION
BLED SOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLED SOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06
INFLUENT EQUALIZATION
BASIN PLAN



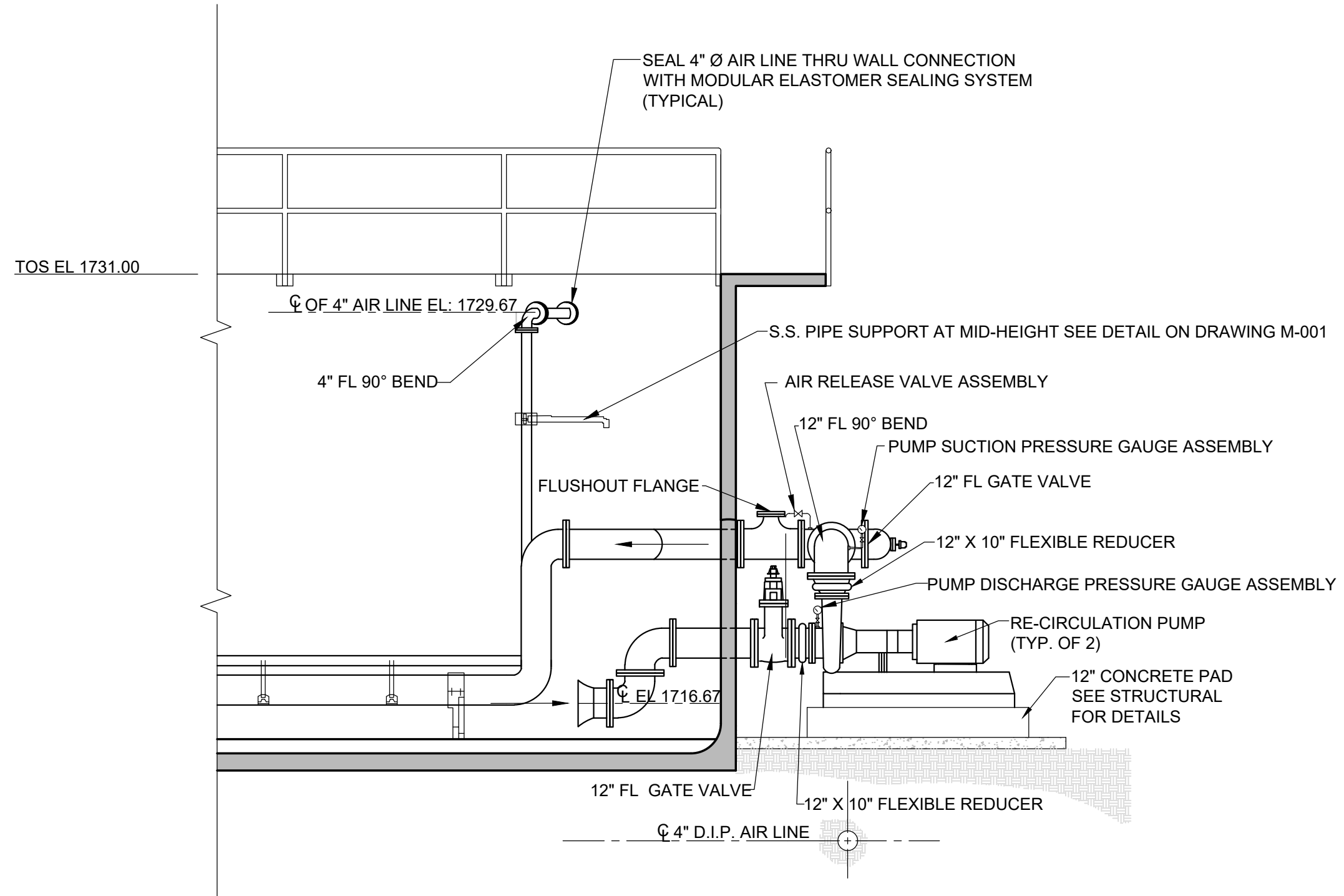
JOB NO.
 N16003
 ISSUE DATE
 November 30, 2018
 SCALE
 1/4" = 1'-0"
 DRAWING NO.
 M-201

CTI PROJECT: N16003-01 (TN Dept. General Services, TDEC) Bledsoe County Correctional Complex, DRAWING: CTI_M-202 INFLUENT EQUALIZATION BASIN SECTIONS (666378/2713/19 10:52AM) LAYOUT: M-202

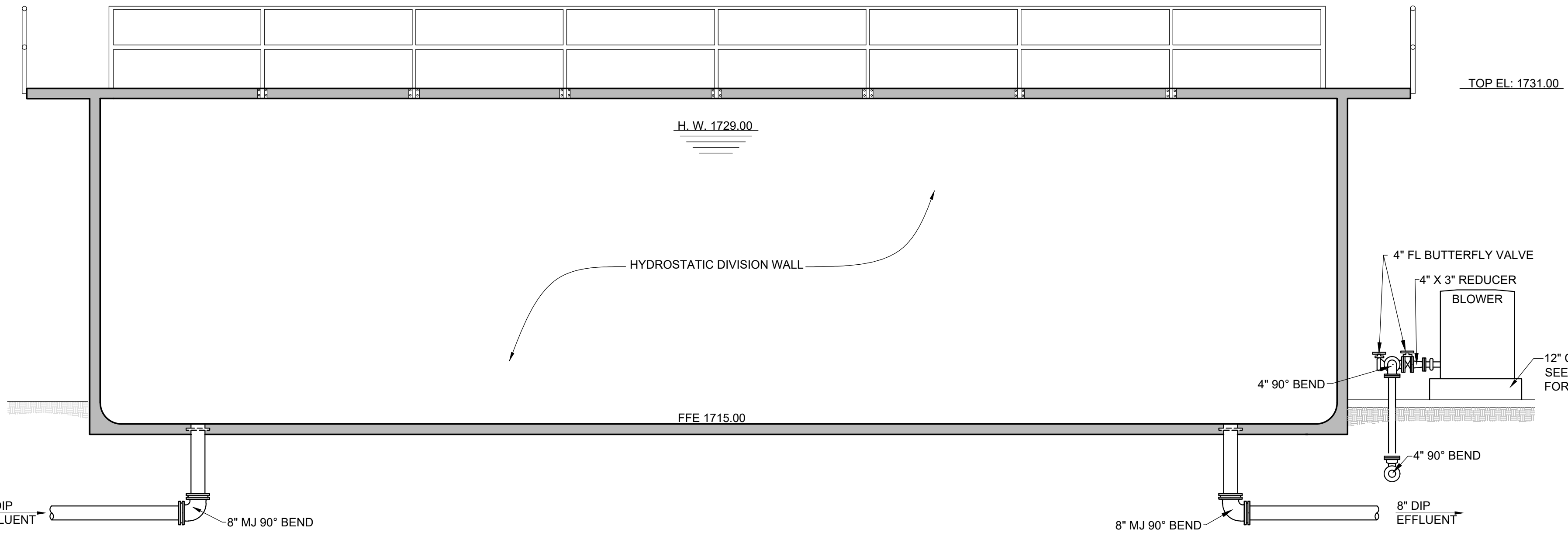
DATE OF PRINT: 3/14/2019 3:09 PM



A INFLUENT EQUALIZATION BASIN - SECTION
 M-201
 SCALE: 1/4" = 1'-0"



C INFLUENT EQUALIZATION BASIN - SECTION
 M-201
 SCALE: 1/4" = 1'-0"



B INFLUENT EQUALIZATION BASIN - SECTION
 M-201
 SCALE: 1/4" = 1'-0"

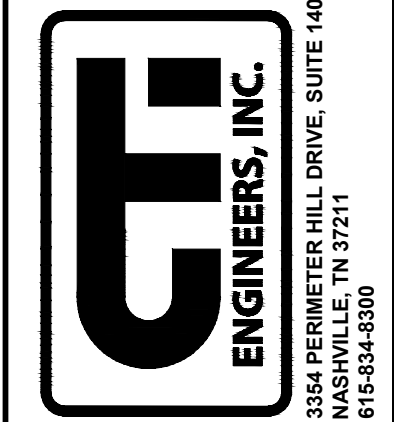
NOTES:

- DIMENSIONS FOR BLOWER AND PUMP BASES ARE DEPENDENT ON EQUIPMENT FURNISHED COORDINATE WITH EQUIPMENT REQUIREMENTS.
- THE TANK SUPPLIER TO PROVIDE WALL AND FLOOR ELEMENTS NECESSARY TO ACCEPT BRACKETS AND OTHER ATTACHMENTS SHOWN ON THE DRAWINGS. FINAL CONFIGURATIONS AND DETAILS TO BE DETERMINED THROUGH SHOP DRAWING REVIEW PROCEDURES.

REVISIONS		DATE	BY	APPD
NO.	DESCRIPTIONS			

DESIGN	NH	DRAWN	JRH	CHECKED	NH	APPROVED	NH
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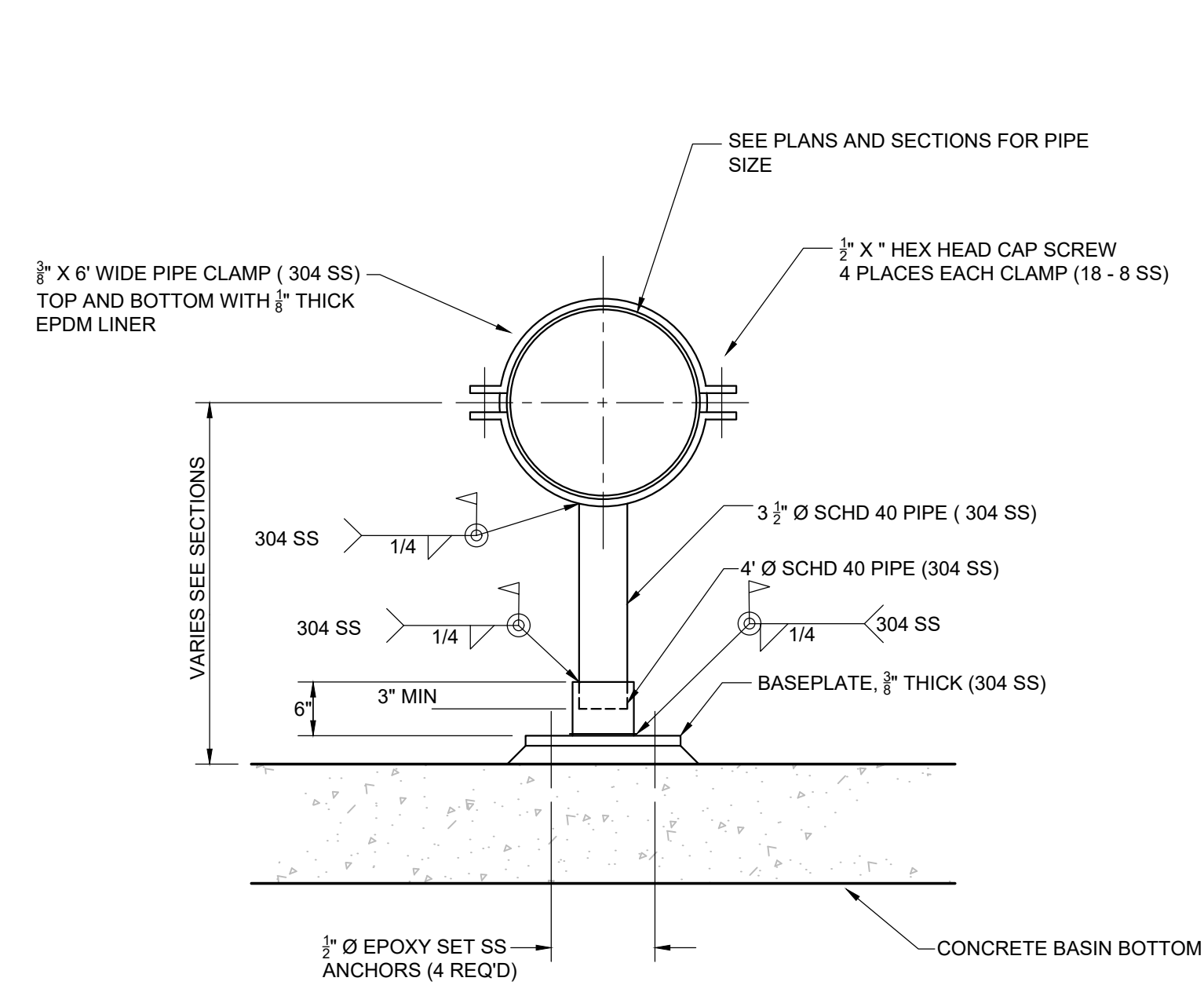
WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SEC PROJECT 142/013-01-2013-06
INFLUENT EQUALIZATION BASIN SECTIONS



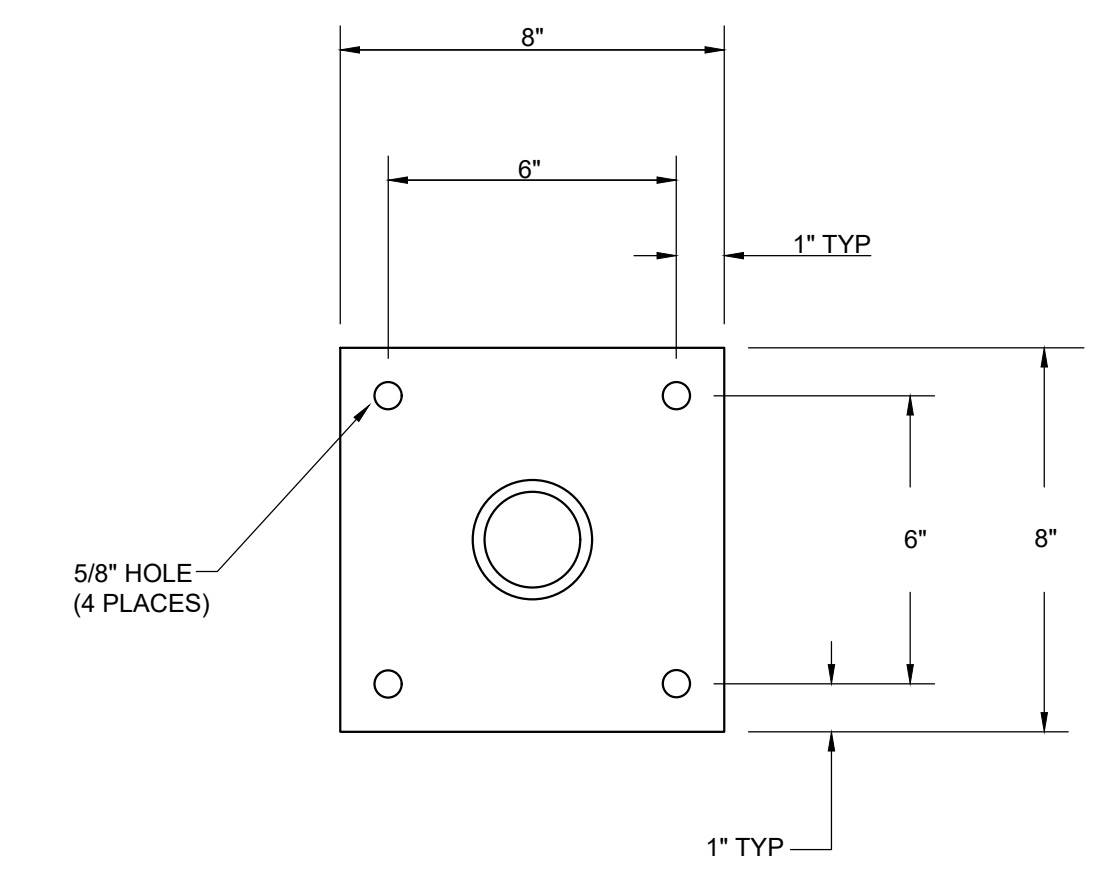
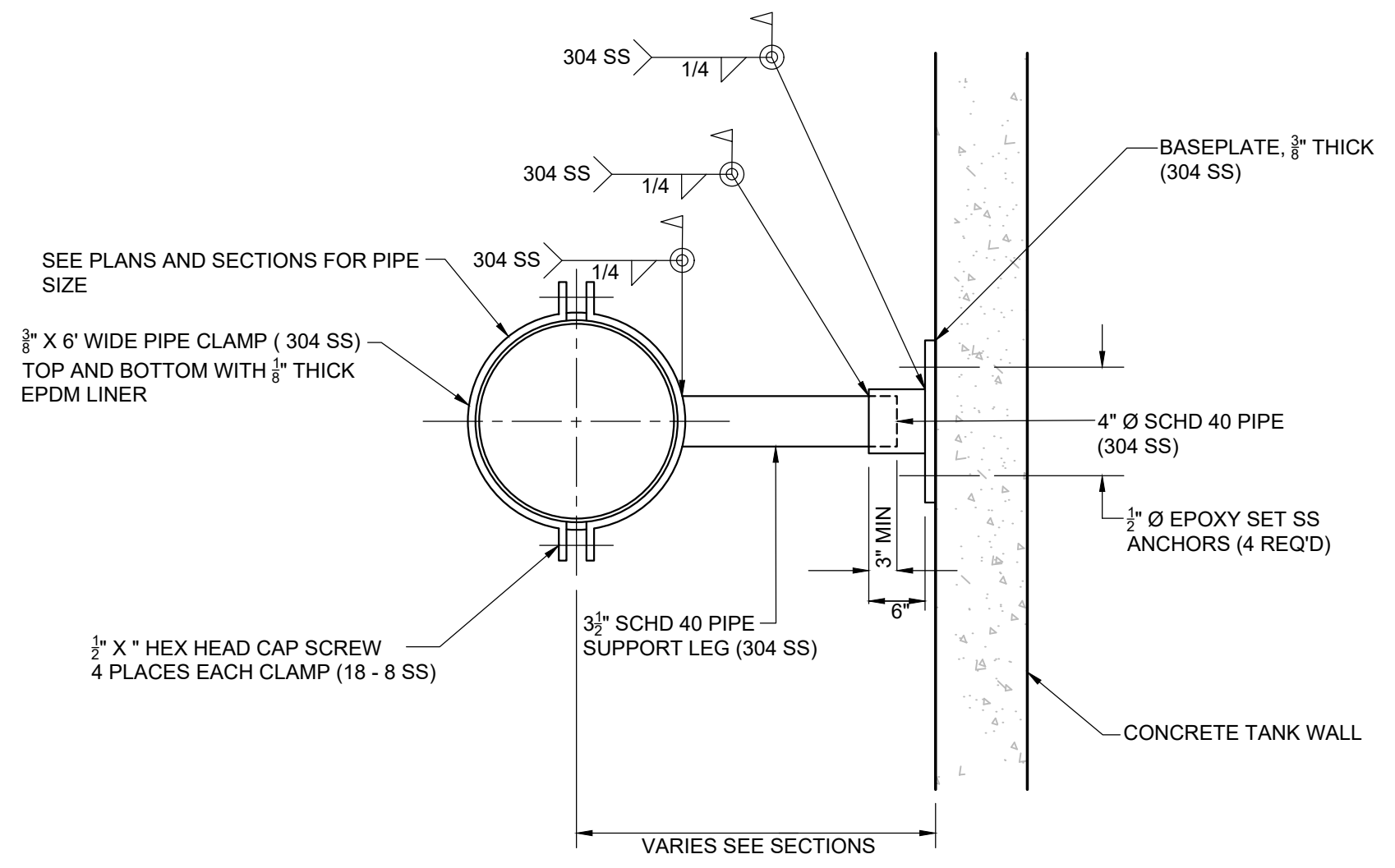
JOB NO.	N16003
ISSUE DATE	November 30, 2018
SCALE	1/4" = 1' - 0"
DRAWING NO.	M-202

CTI PROJECT: N16003-01 (TN Dept. General Services, TDEC), Bledsoe County Correctional Complex, DRAWING: CTI-M-203 INFLUENT EQUALIZATION BASIN DETAILS (665279/22/26/19, 9:37AM), LAYOUT, SECTIONS 2

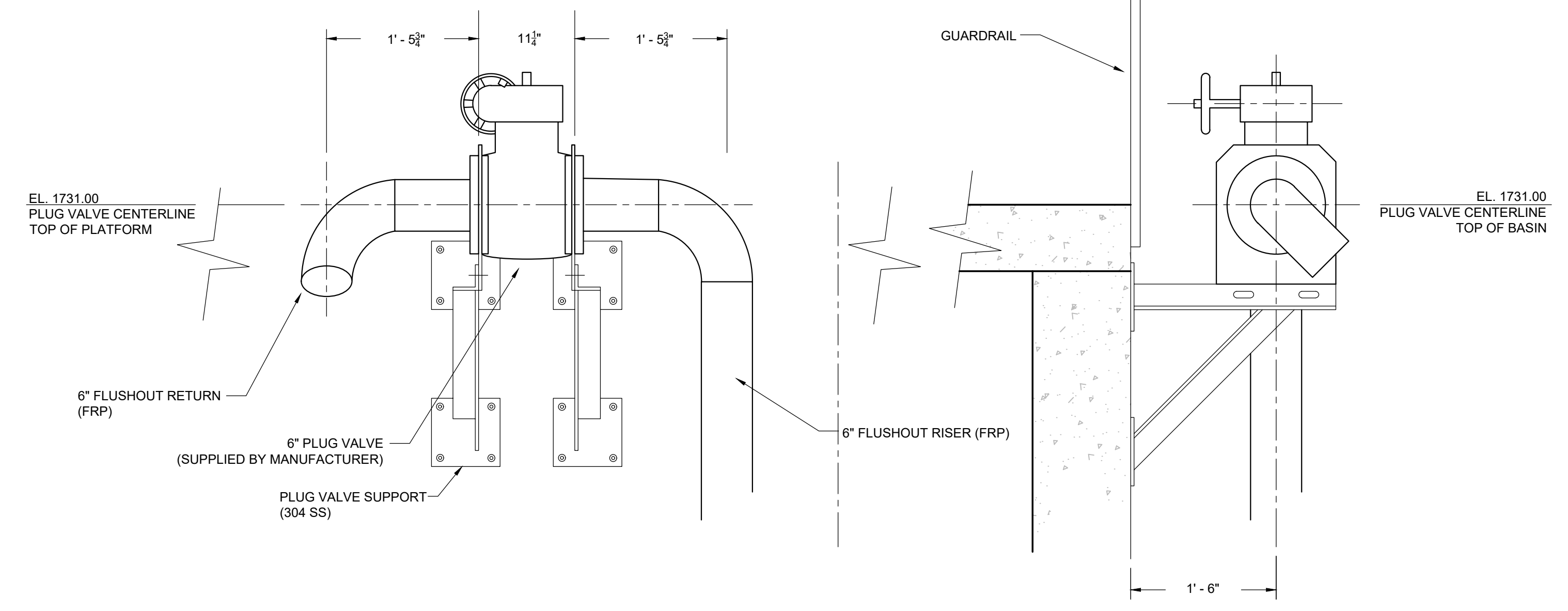
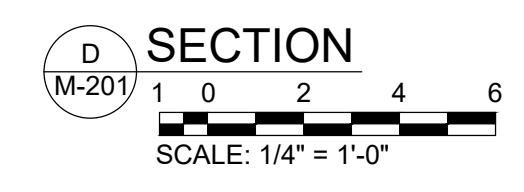
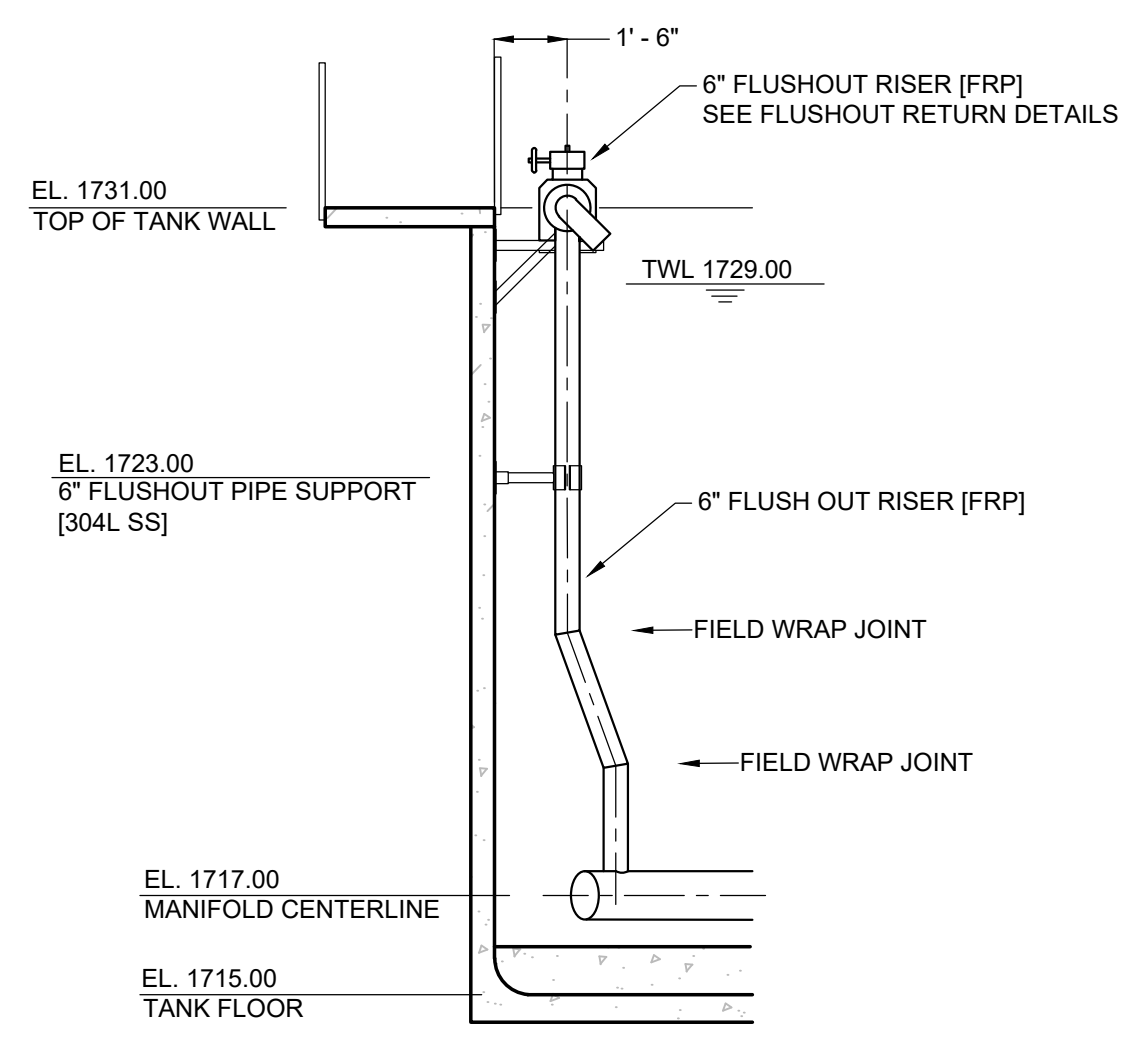
DATE OF PRINT: 3/14/2019 3:10 PM



PIPE SUPPORT DETAILS
NTS



BASE PLATE DETAIL
NTS



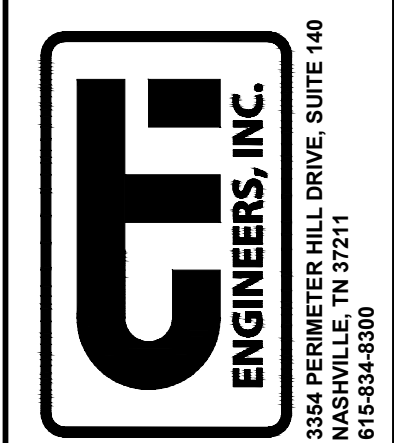
FLUSHOUT RETURN DETAILS
NTS

NOTE:
1. THE TANK SUPPLIER TO PROVIDE WALL AND FLOOR ELEMENTS NECESSARY TO ACCEPT BRACKETS AND OTHER ATTACHMENTS SHOWN ON THE DRAWINGS. FINAL CONFIGURATIONS AND DETAILS TO BE DETERMINED THROUGH SHOP DRAWING REVIEW PROCEDURES.

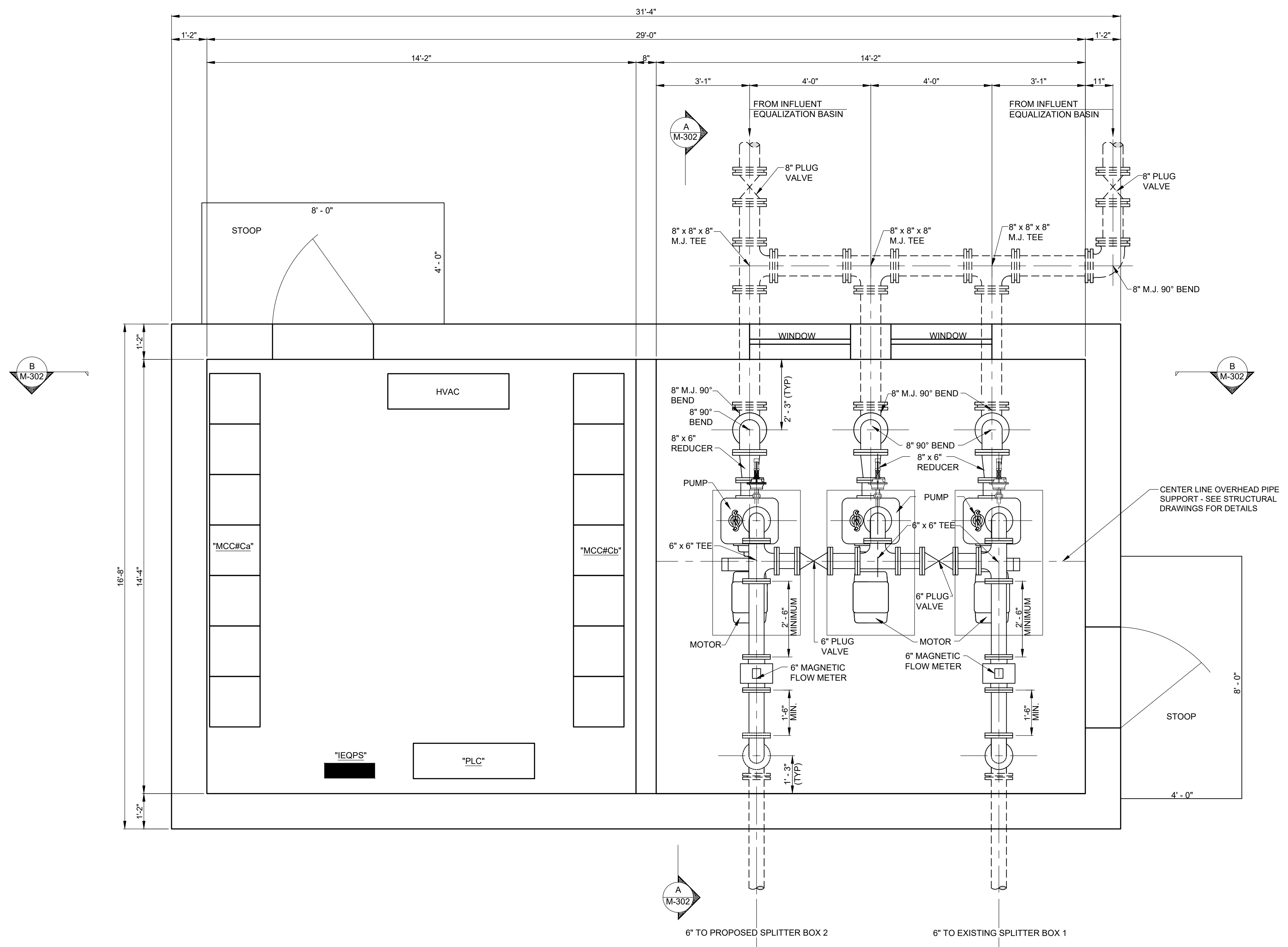
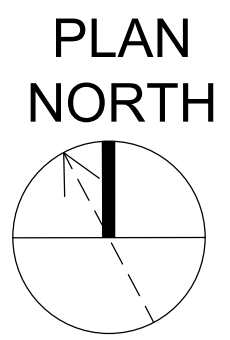
REVISIONS		DATE	BY	APPD
NO.	DESCRIPTIONS			

DESIGN	NH
DRAWN	JRH
CHECKED	NH
APPROVED	NH

WASTEWATER TREATMENT PLANT EXPANSION
BLEDSOE COUNTY CORRECTIONAL COMPLEX
PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06
INFLUENT EQUALIZATION BASIN
DETAILS



JOB NO.	N16003
ISSUE DATE	November 30, 2018
SCALE	AS NOTED
DRAWING NO.	M-203



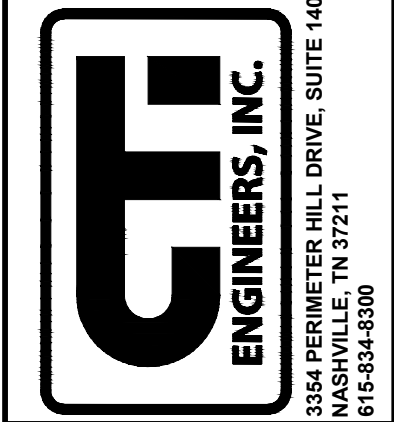
SBR INFLUENT PUMP STATION PLAN
 1 0 2 4 6
 SCALE: 1/2" = 1'-0"

REVISIONS		DATE	BY	APPD
NO.	DESCRIPTIONS			

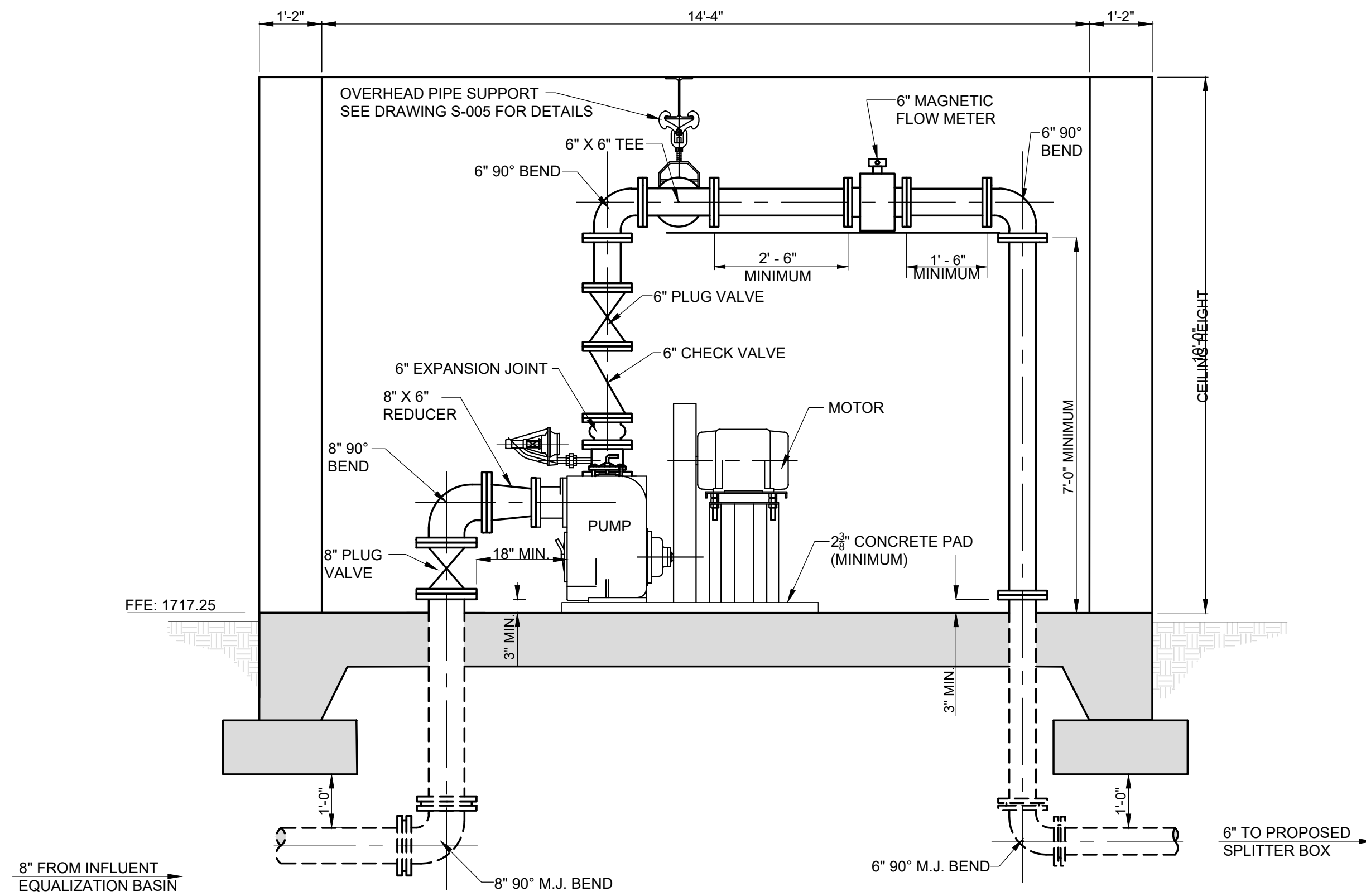
DESIGN: NH
 DRAWN: JRH
 CHECKED: NH
 APPROVED: NH

WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

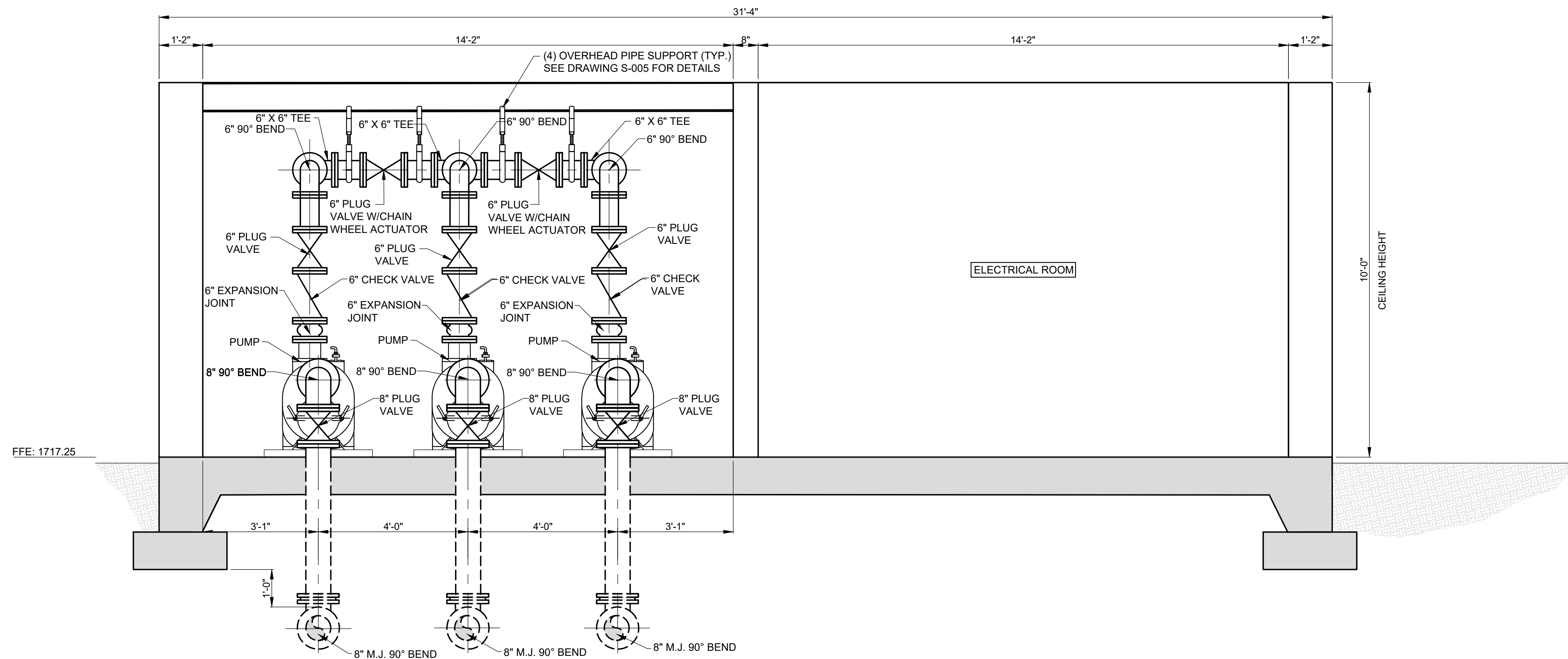
SBR INFLUENT PUMP STATION PLAN



JOB NO.
 N16003
 ISSUE DATE
 November 30, 2018
 SCALE
 1/2" = 1'-0"
 DRAWING NO.
 M-301



A SBR INFLUENT PUMP STATION SECTION
 M-301/1 0 2 4 6
 SCALE: 1/2" = 1'-0"

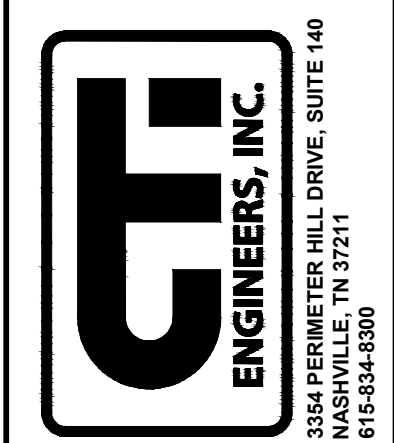


B SBR INFLUENT PUMP STATION SECTION
 M-301/1 0 2 4 6
 SCALE: 1/2" = 1'-0"

REVISIONS		DATE	BY	APPD
NO.	DESCRIPTIONS			

DESIGN	DRAWN	CHECKED	APPROVED
NH	JRH	NH	NH

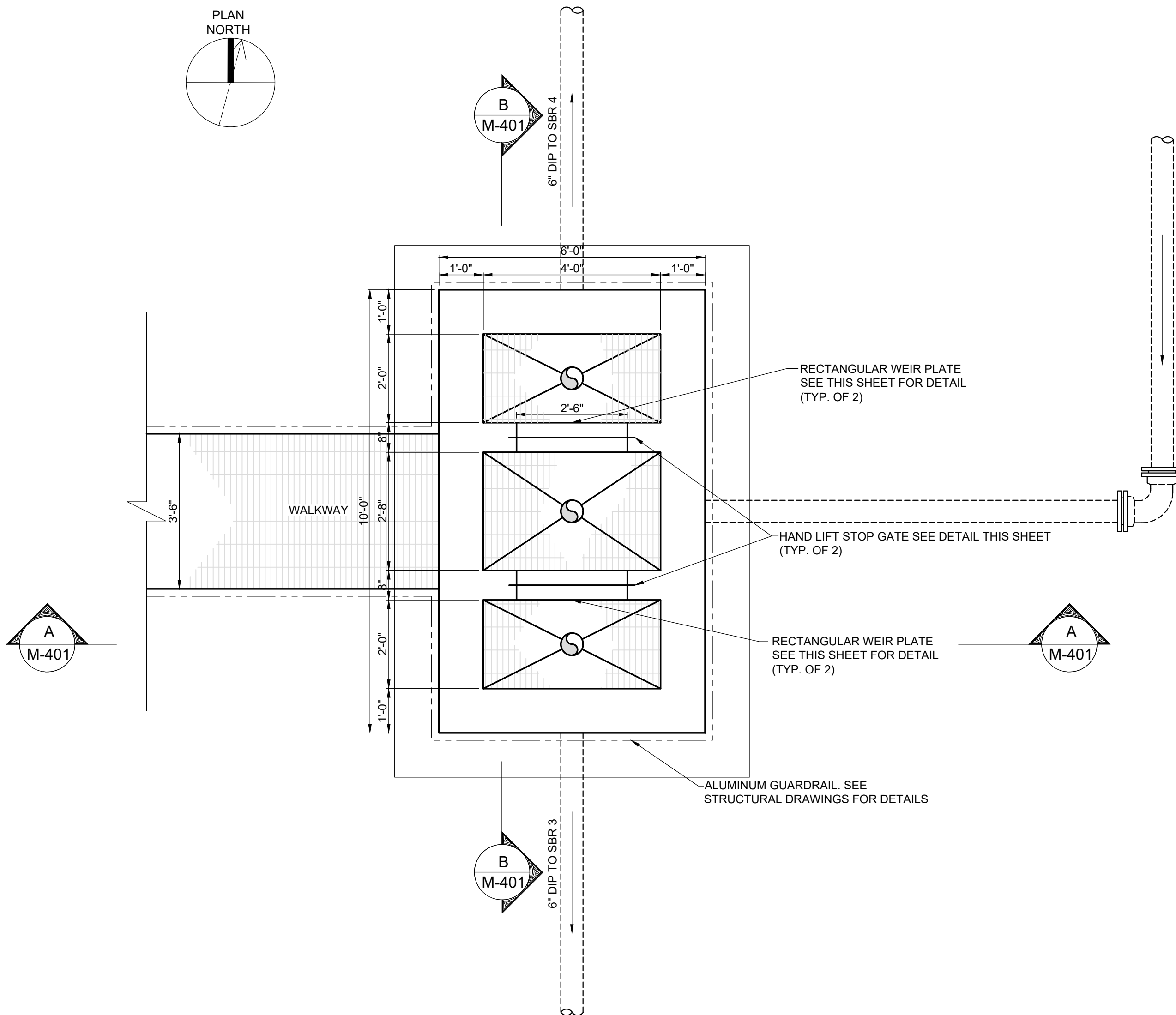
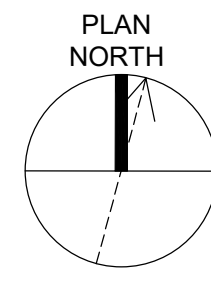
WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06
SBR INFLUENT PUMP STATION SECTIONS



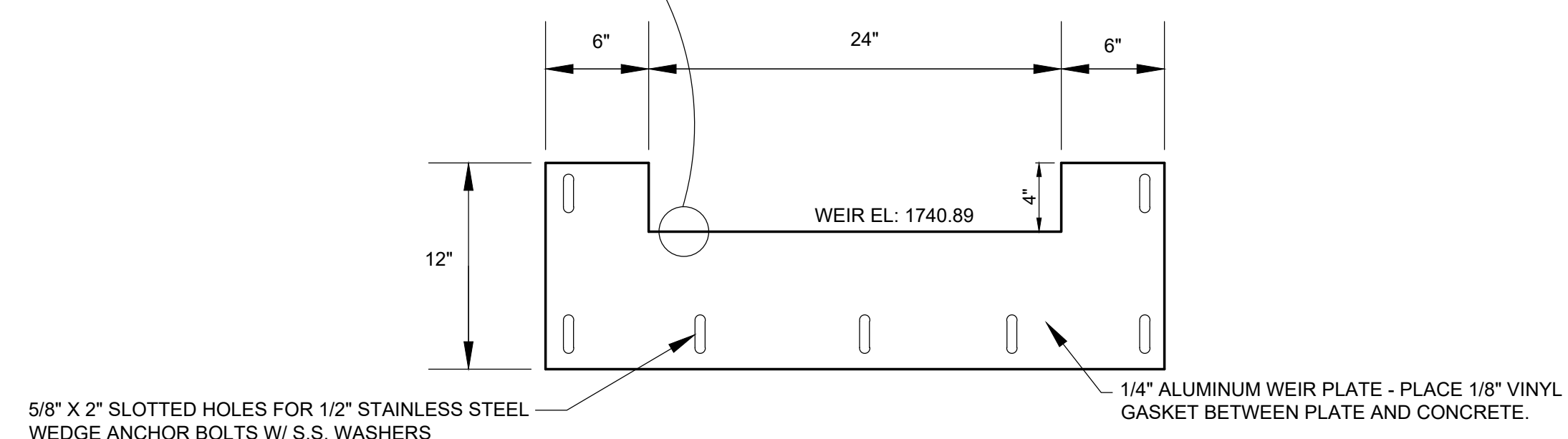
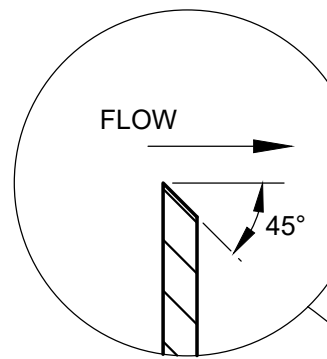
JOB NO. N16003
ISSUE DATE November 30, 2018
SCALE 1/2" = 1'-0"
DRAWING NO. M-302

CTI PROJECT: N16003-01 (TN Dept. General Services TDEC) Bledsoe County Correctional Complex, DRAWING: CTI - M-401, SPLITTER BOX PLAN & SECTIONS (539189/48/2/2619, 10:31AM), LAYOUT: SPLITTERBOX SECTIONS

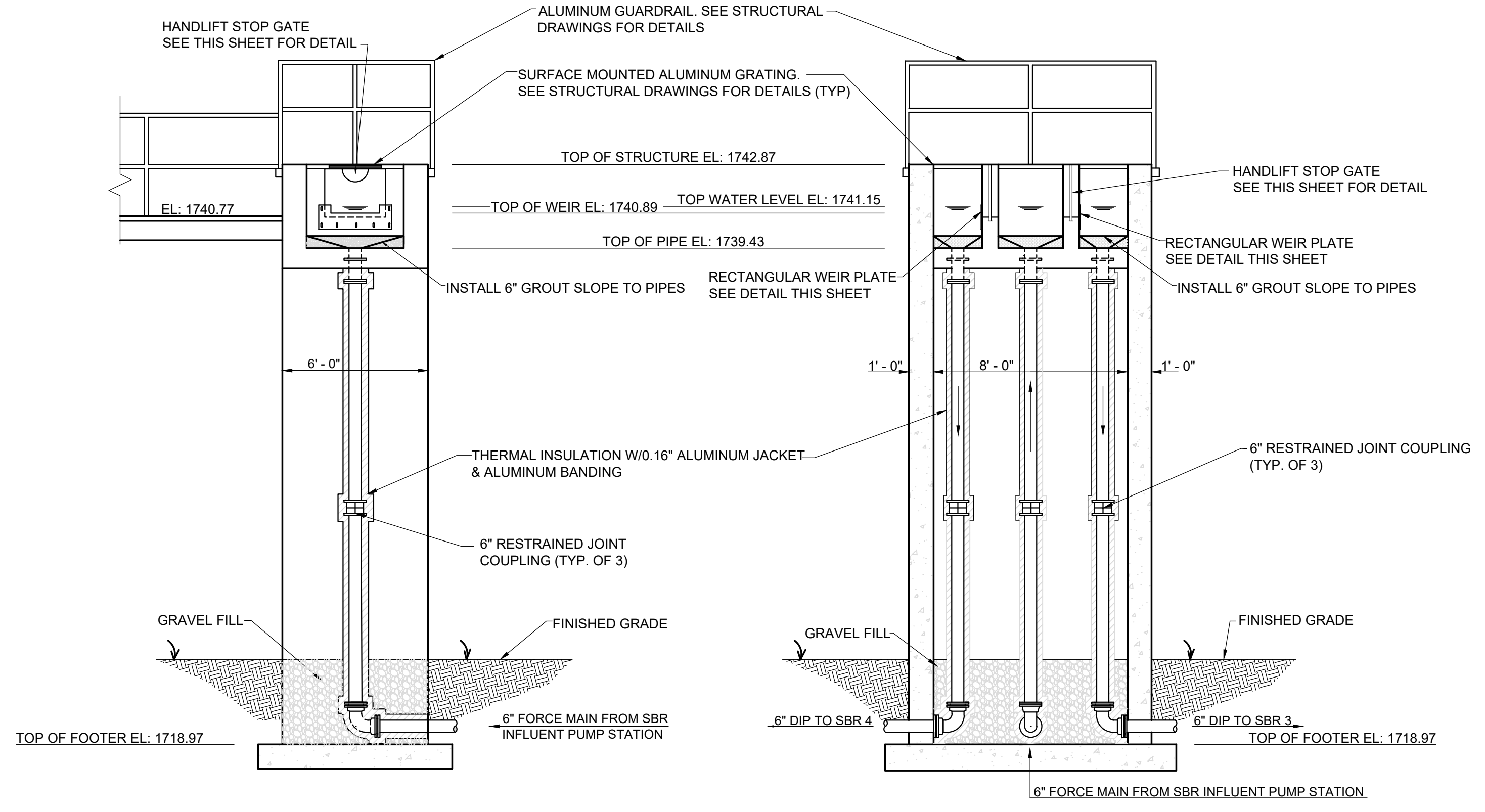
DATE OF PRINT: 3/14/2019 3:13 PM



SPLITTER BOX - PLAN
SCALE: 1/2" = 1'-0"

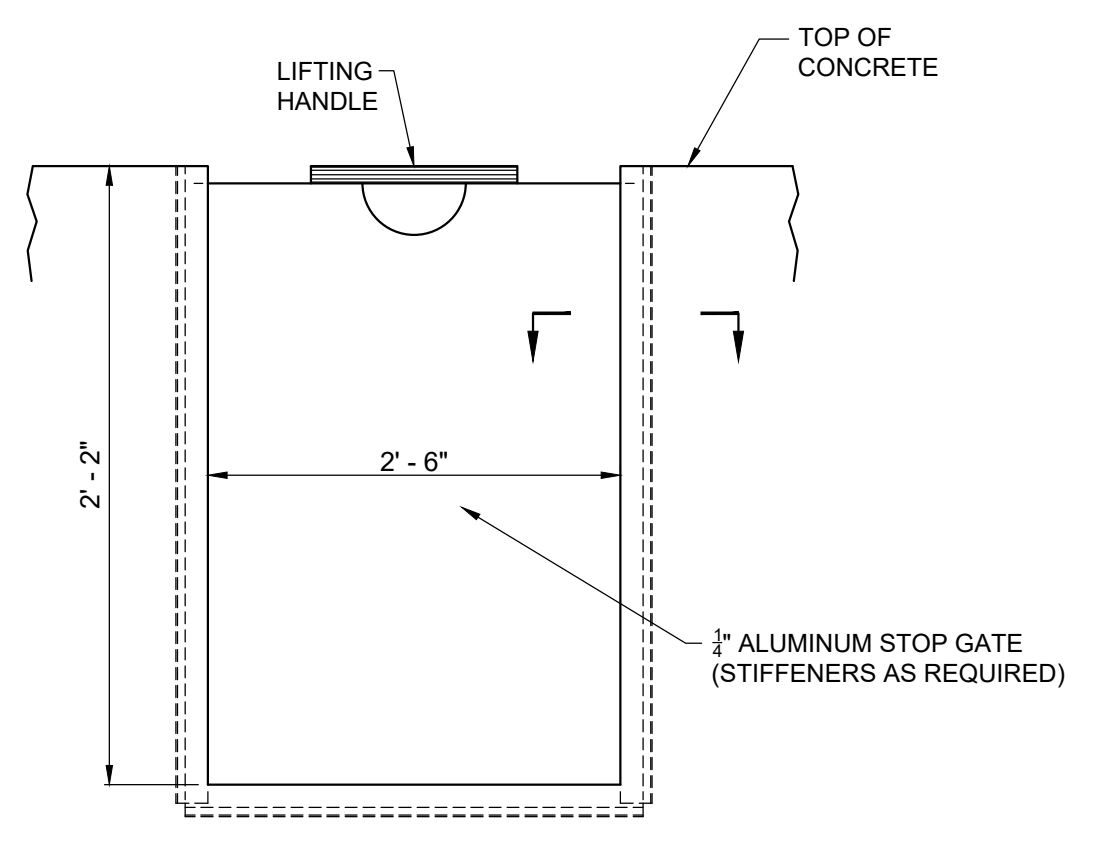


RECTANGULAR WEIR PLATE DETAIL
NTS

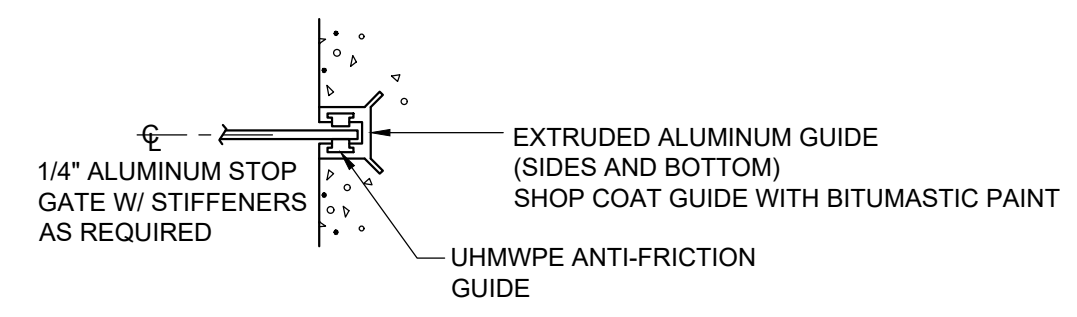


SECTION A
SCALE: 1/2" = 1'-0"

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



EMBEDDED STOP GATE



SECTION THRU STOP GATE

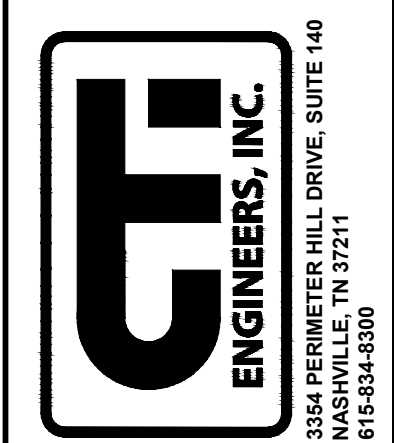
HANDLIFT STOP GATE
NTS

REVISIONS		DATE	BY	APPD
NO.	DESCRIPTIONS			

DESIGN	DRAWN	CHECKED	APPROVED
NH	JRH	KP	NH

WASTEWATER TREATMENT PLANT EXPANSION
BLED SOE COUNTY CORRECTIONAL COMPLEX
PIKEVILLE, BLED SOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

SPLITTER BOX PLAN, SECTIONS, AND DETAILS



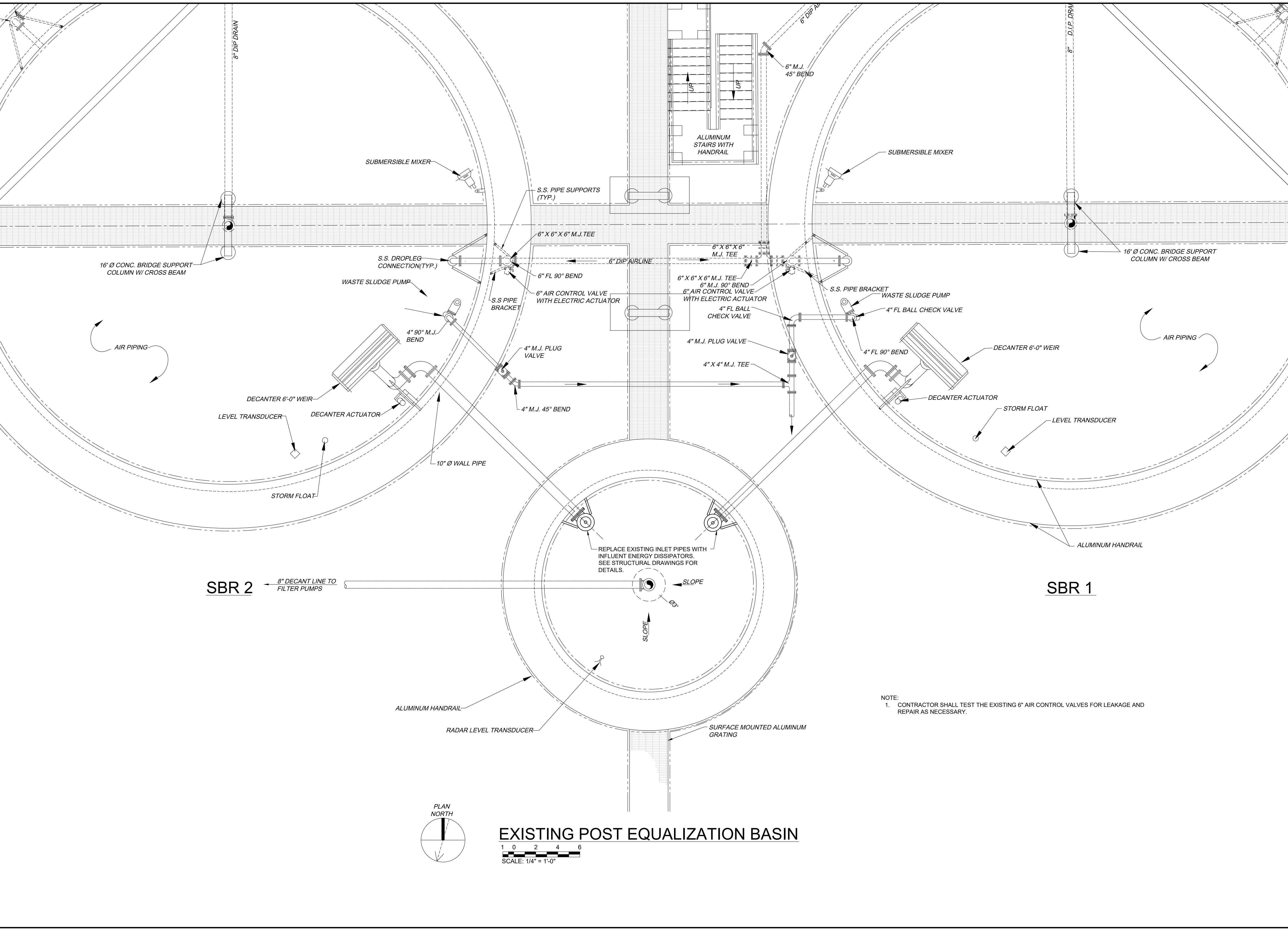
JOB NO.
N16003

ISSUE DATE
November 30, 2018

SCALE
AS NOTED

DRAWING NO.
M-401

DATE OF PRINT: 3/21/2019 11:04 AM C:\PROJECTS\N16003-01 (TN Dept. General Services (DEC) Bledsoe County Correctional Complex, DRAWING: CTI - M-501 ADDITIONS TO SBR 1 & 2 PLAN (57274549/3/14/19 3:20PM) LAYOUT: M-501



SBR 2

SBR 1

EXISTING POST EQUALIZATION BASIN

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

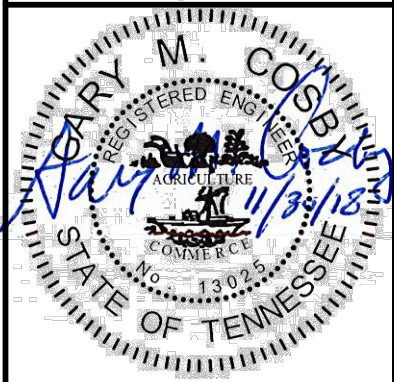
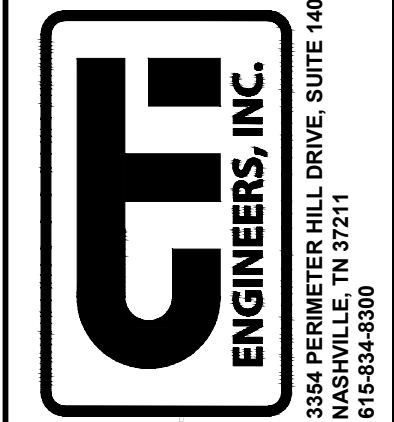
NOTE:
1. CONTRACTOR SHALL TEST THE EXISTING 6" AIR CONTROL VALVES FOR LEAKAGE AND REPAIR AS NECESSARY.

NO.	DESCRIPTIONS	DATE	BY	APPD

DESIGN: GMC
DRAWN: JRH
CHECKED: NH
APPROVED: GMC

WASTEWATER TREATMENT PLANT EXPANSION
BLEDSOE COUNTY CORRECTIONAL COMPLEX
PIKEVILLE, BLEDSON COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

ADDITIONS TO SBR 1 AND SBR 2 PLAN



JOB NO.
N16003

ISSUE DATE
November 30, 2018

SCALE
1/4" = 1' - 0"

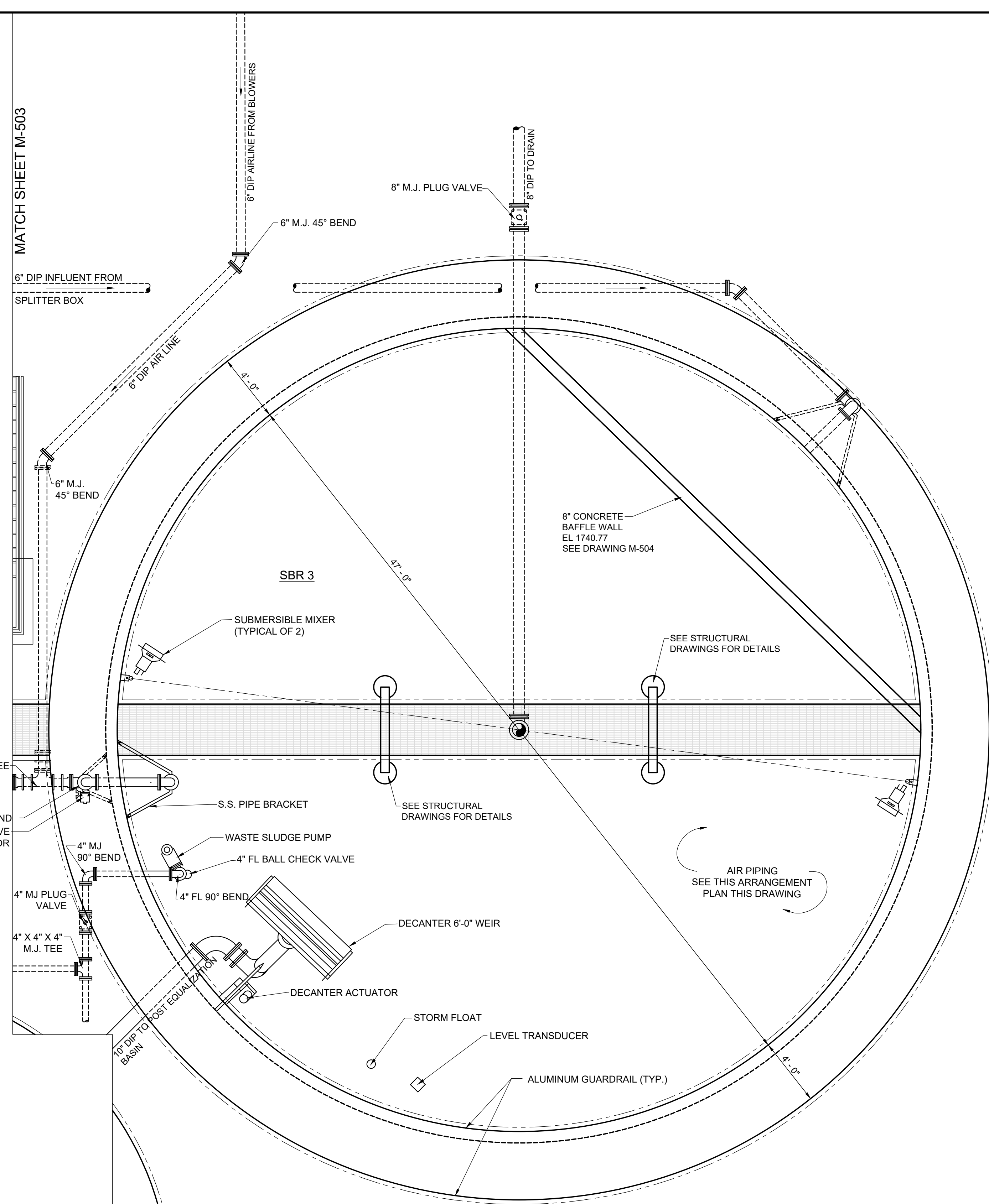
DRAWING NO.
M-501

CTI PROJECT: N16003-01 (TN Dept. General Services (DEC) Bledsoe County Correctional Complex, DRAWING: CTI - M-502, SBR 3 AND PROPOSED SBR AIR PIPING PLAN (5/28/19/20/3/21/19, 11:09AM), LAYOUT: M-502

DATE OF PRINT: 3/21/2019 1:21 PM

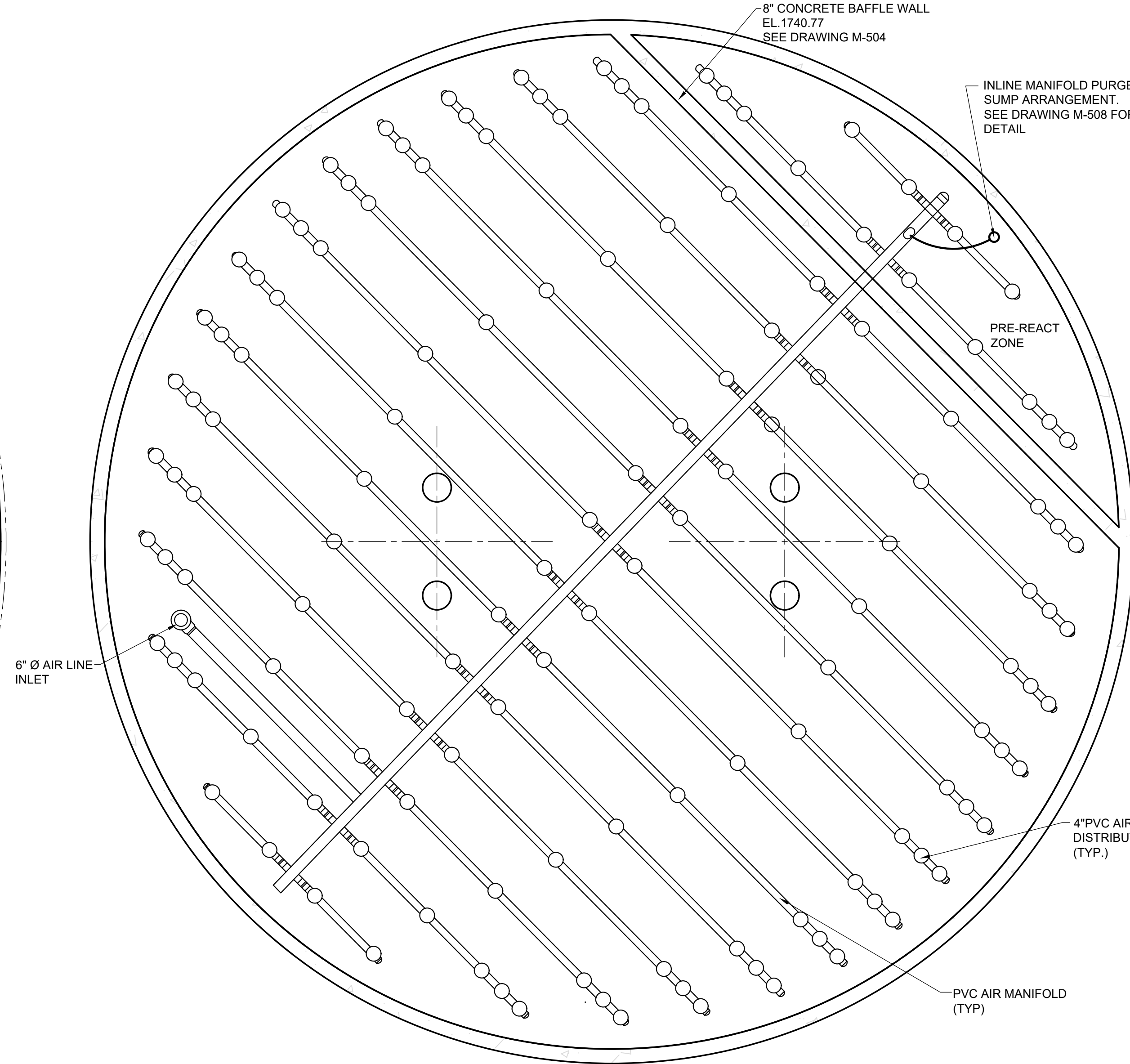
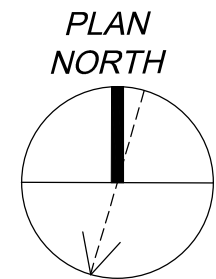
MATCH SHEET M-503

MATCH SHEET M-503



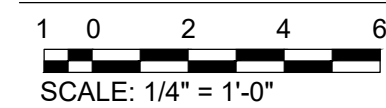
- NOTES:
- THREE (3) SELF-CLOSING INTERIOR GUARDRAIL GATES REQUIRED. COORDINATE LOCATIONS WITH HOIST MOUNTING, MIXERS, AND PUMP. SEE STRUCTURAL DRAWINGS.
 - THE TANK SUPPLIER TO PROVIDE WALL AND FLOOR ELEMENTS NECESSARY TO ACCEPT BRACKETS AND OTHER ATTACHMENTS SHOWN ON THE DRAWINGS. FINAL CONFIGURATIONS AND DETAILS TO BE DETERMINED THROUGH SHOP DRAWING REVIEW PROCEDURES.

SBR 3 - PLAN



- NOTES:
- BRIDGE, WALKWAY, AND DECANTER REMOVED FOR CLARITY.
 - SBR 4 SHALL BE CONSTRUCTED OPPOSITE HAND OF SBR SHOWN.
 - THE PUMPS AND FLOATS SHOULD BE LOCATED PER MANUFACTURER'S RECOMMENDATION TO PROVIDE SUFFICIENT ACCESS.

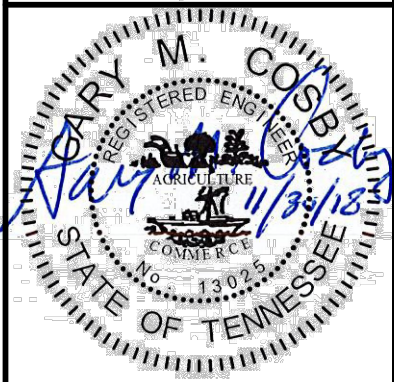
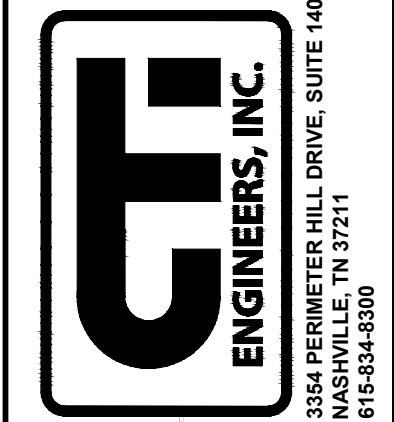
SBR AIR PIPING ARRANGEMENT PLAN - TYPICAL FOR SBR 3 AND 4



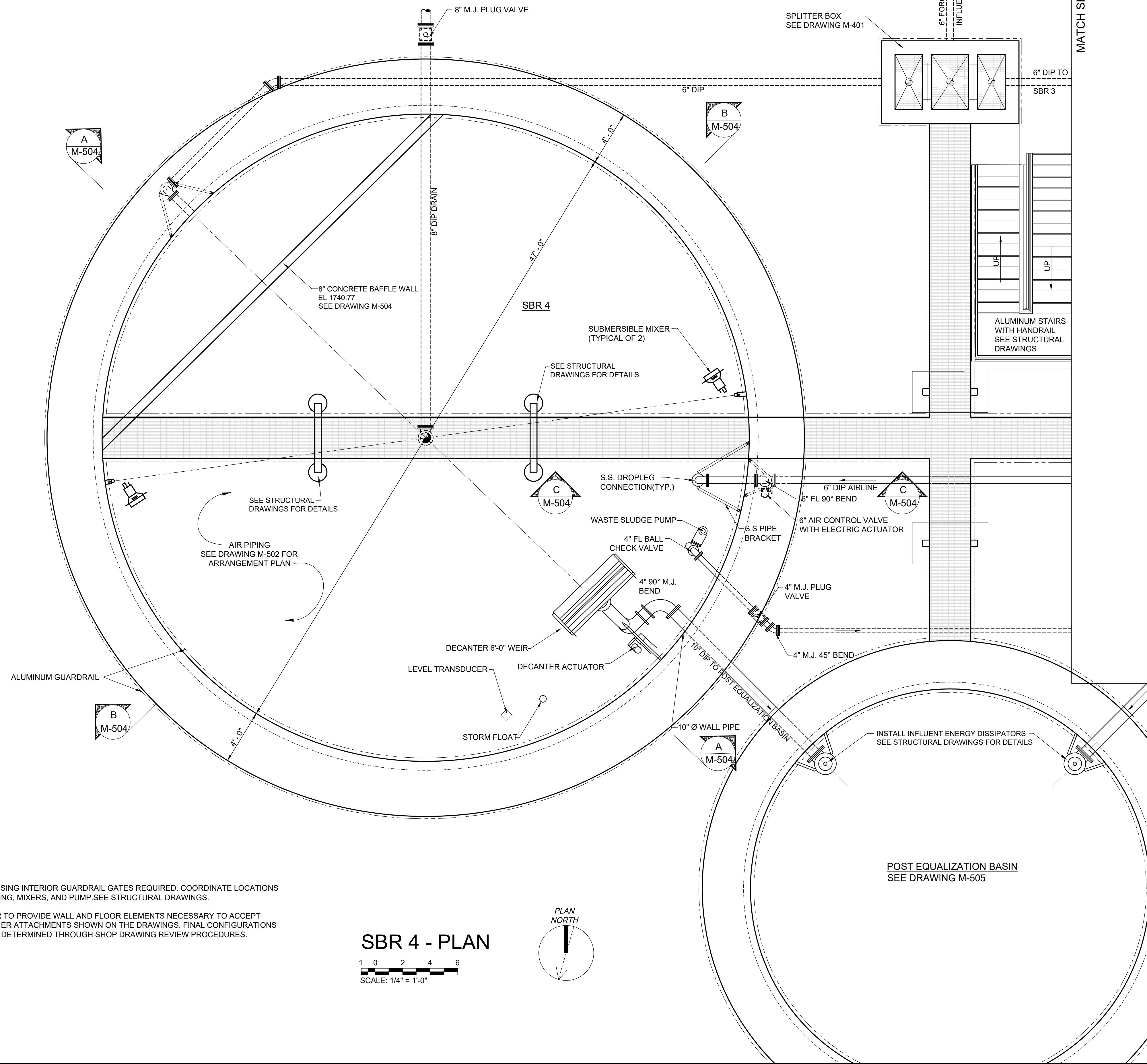
REVISIONS	NO.	DESCRIPTIONS	DATE	BY	APPD

DESIGN	DRAWN	CHECKED	APPROVED
GMC	JRH	NH	GMC

WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06
SBR 3 PLAN AND SBR AIR PIPING PLAN

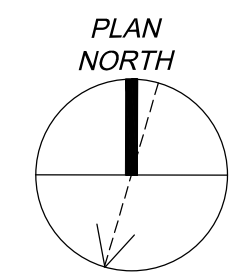


JOB NO.
N16003
 ISSUE DATE
November 30, 2018
 SCALE
1/4" = 1' - 0"
 DRAWING NO.
M-502



- NOTES:
- THREE (3) SELF-CLOSING INTERIOR GUARDRAIL GATES REQUIRED. COORDINATE LOCATIONS WITH HOIST MOUNTING, MIXERS, AND PUMP. SEE STRUCTURAL DRAWINGS.
 - THE TANK SUPPLIER TO PROVIDE WALL AND FLOOR ELEMENTS NECESSARY TO ACCEPT BRACKETS AND OTHER ATTACHMENTS SHOWN ON THE DRAWINGS. FINAL CONFIGURATIONS AND DETAILS TO BE DETERMINED THROUGH SHOP DRAWING REVIEW PROCEDURES.

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



MATCH SHEET M-502

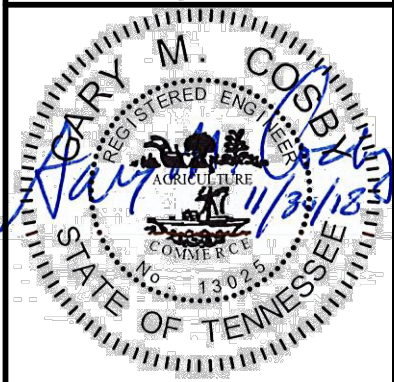
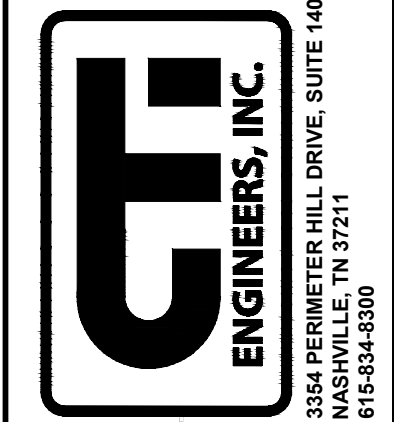
MATCH SHEET M-502

REVISIONS		DATE	BY	APPD
NO.	DESCRIPTIONS			

DESIGN	GMC	DRAWN	JRH	CHECKED	NH	APPROVED	GMC
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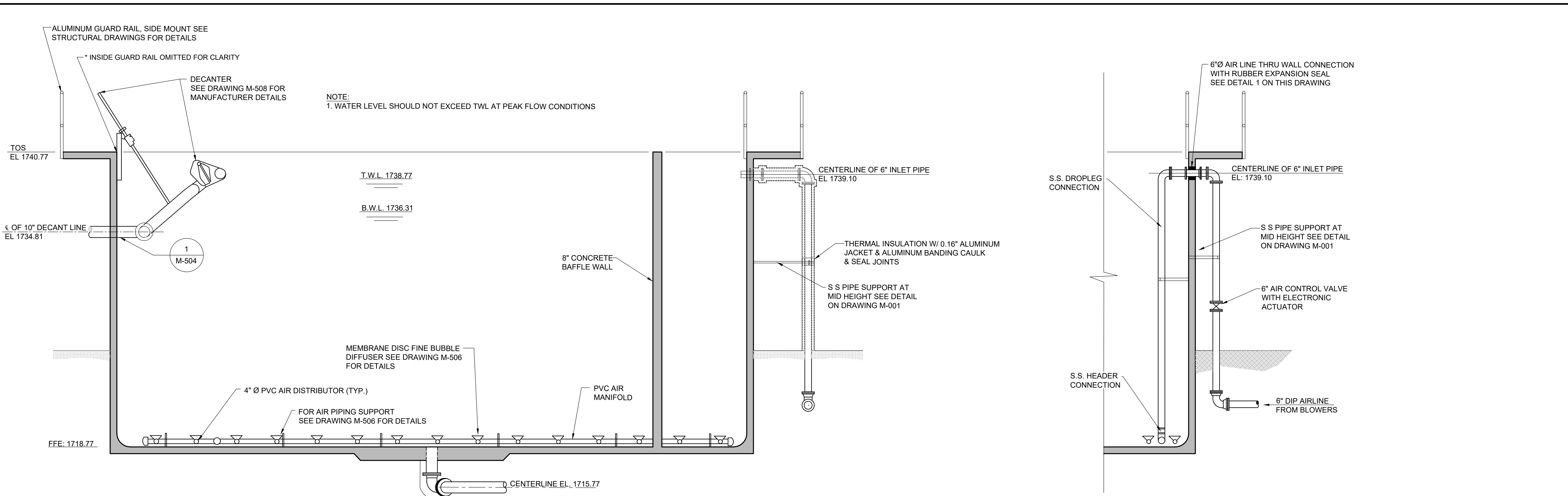
WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SEC PROJECT 142/013-01-2013-06

SBR 4 PLAN

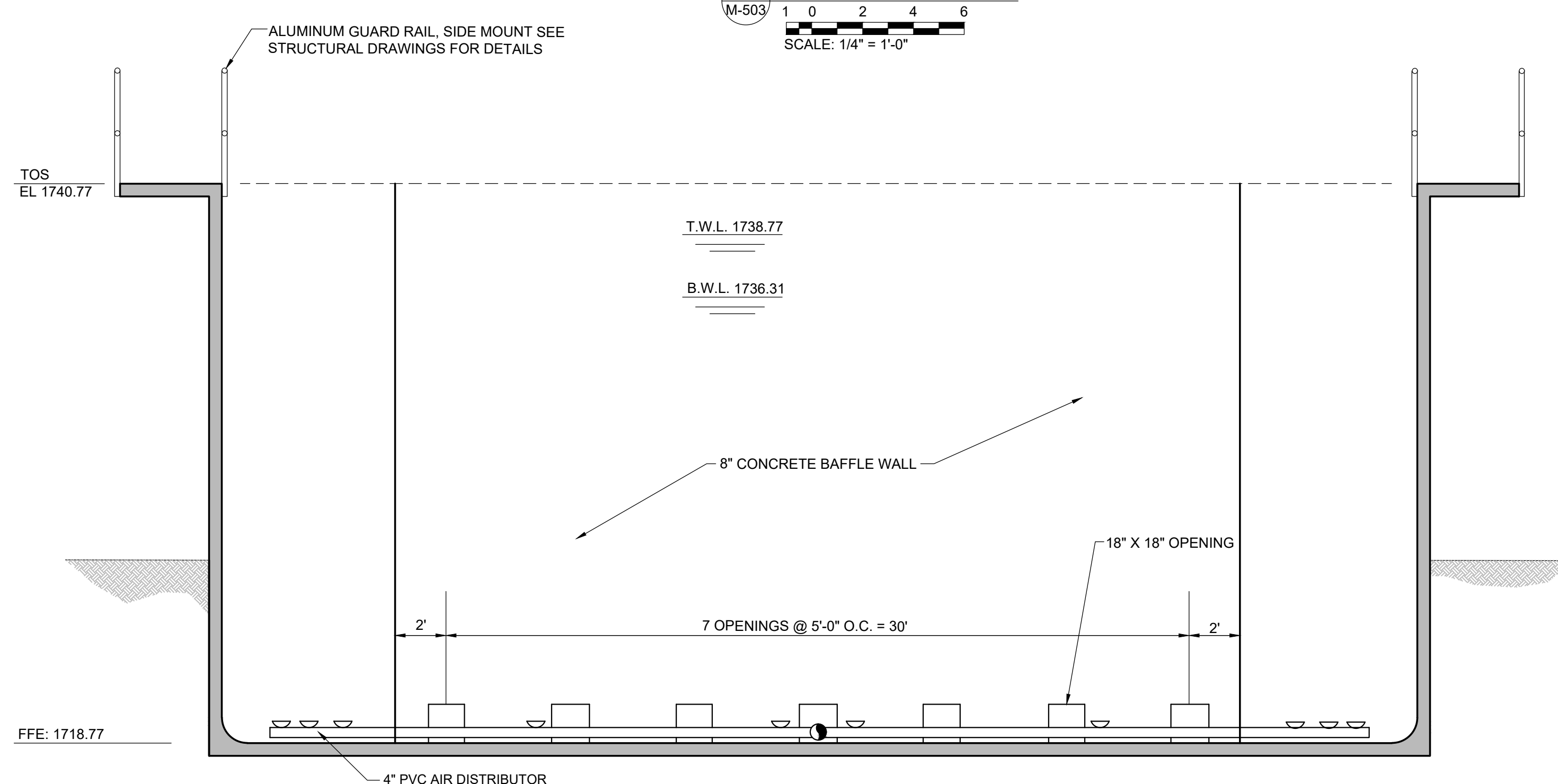


JOB NO.	N16003
ISSUE DATE	November 30, 2018
SCALE	1/4" = 1' - 0"
DRAWING NO.	M-503

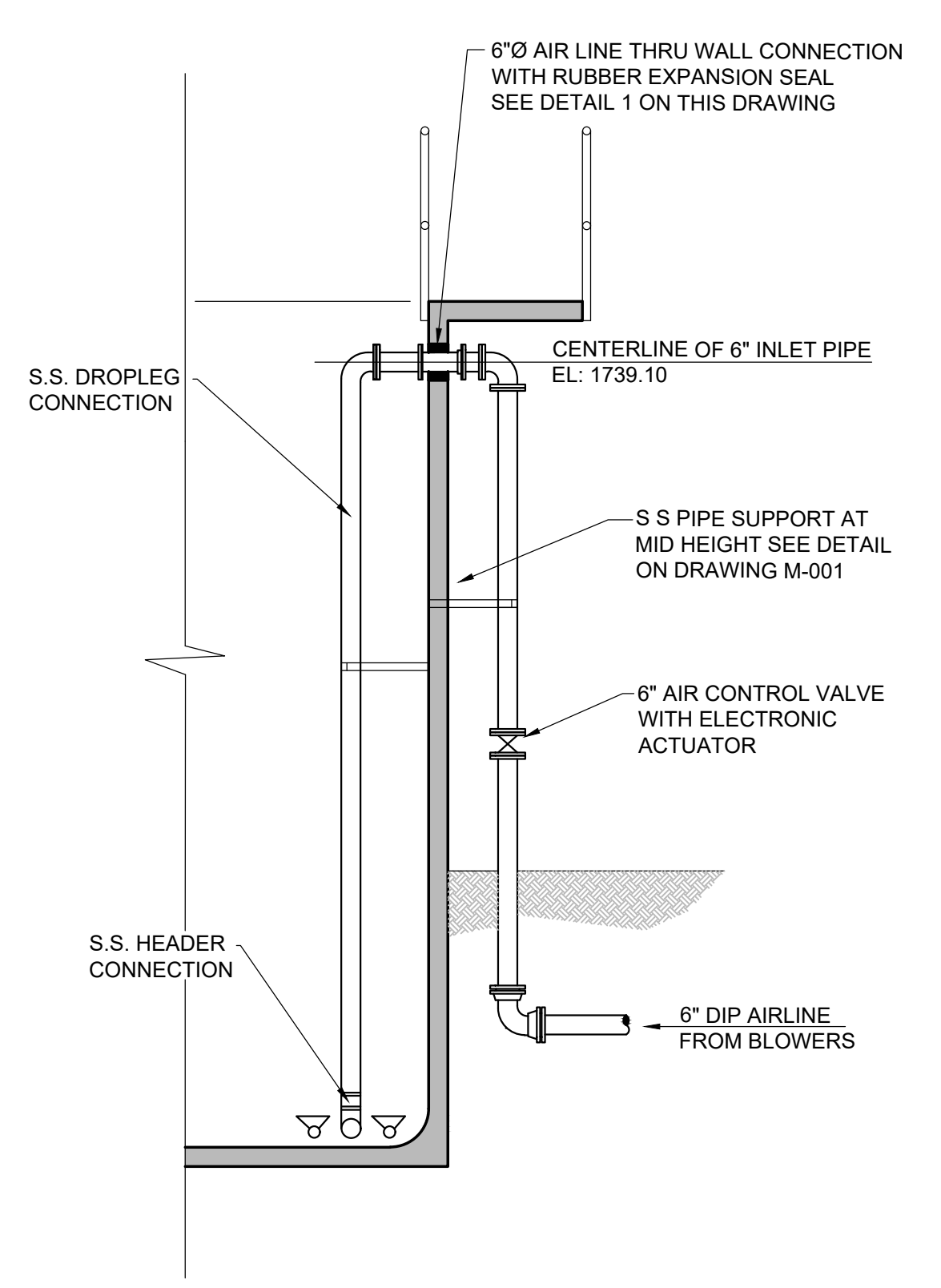
CTTI PROJECT: N16003-01 (TN Dept. General Services (DECO) Bledsoe County Correctional Complex, DRAWING: CTTI-M-504 SBR SECTIONS (6659381/24/19 9:29PM), LAYOUT: M-504
 DATE OF PRINT: 3/21/2019 11:13 AM



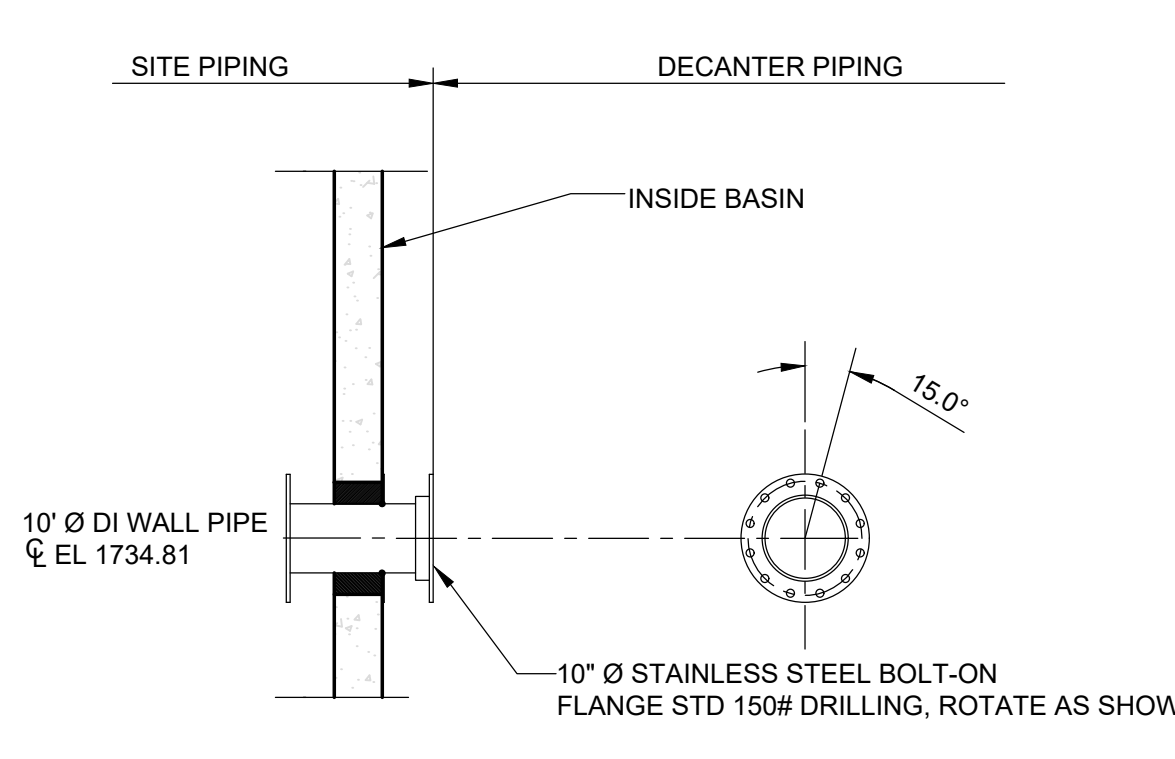
ROTATED SECTION
 A
 M-503
 SCALE: 1/4" = 1'-0"



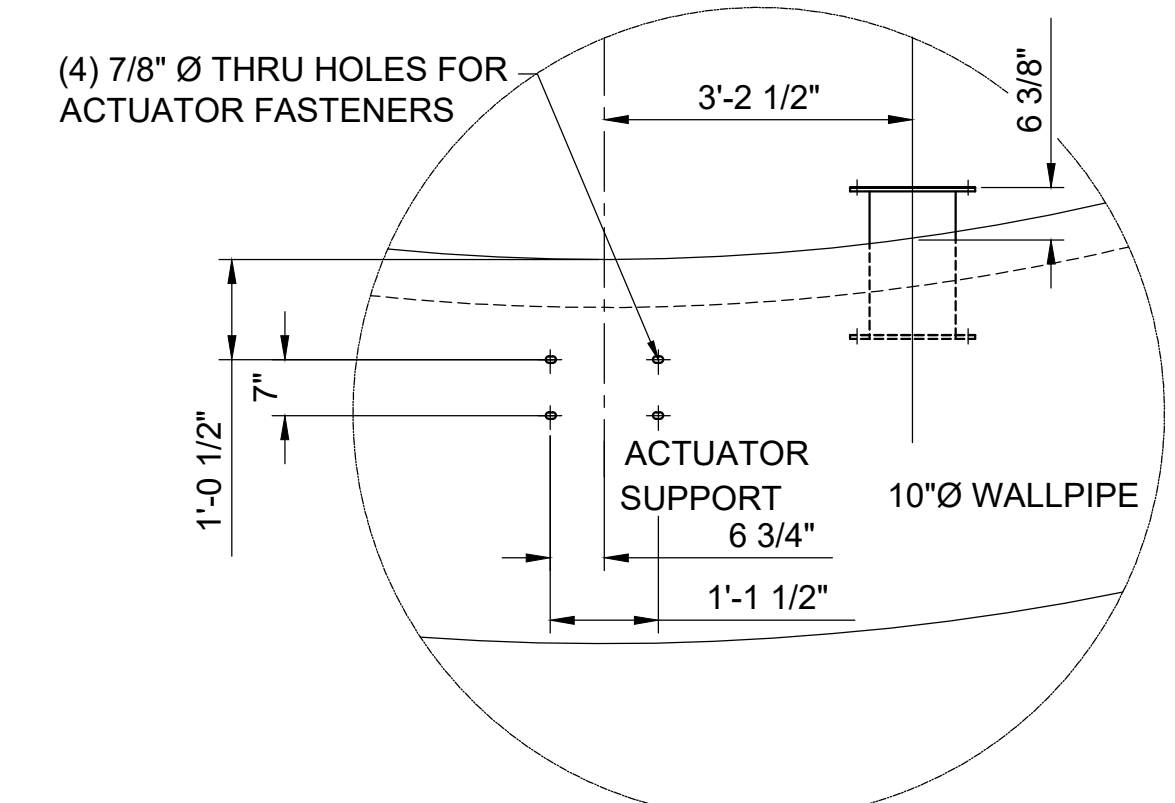
SECTION
 B
 M-503
 SCALE: 1/4" = 1'-0"



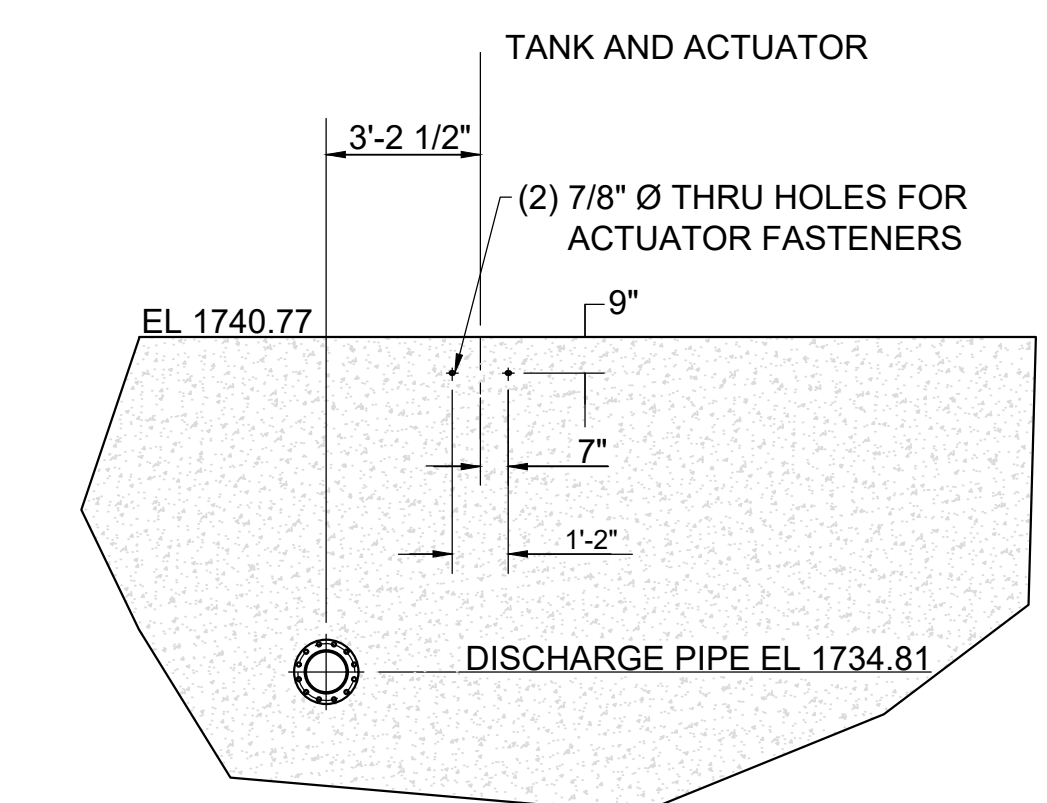
SECTION
 C
 M-503
 SCALE: 1/4" = 1'-0"



DECANTER DISCHARGE PIPE CONNECTION DETAIL
 1
 M-504
 (1) REQ'D. AS SHOWN
 (1) REQ'D. MIRROR IMAGE



DECANTER ACTUATOR SUPPORT PLAN
 (1) REQ'D. AS SHOWN
 (1) REQ'D. MIRROR IMAGE

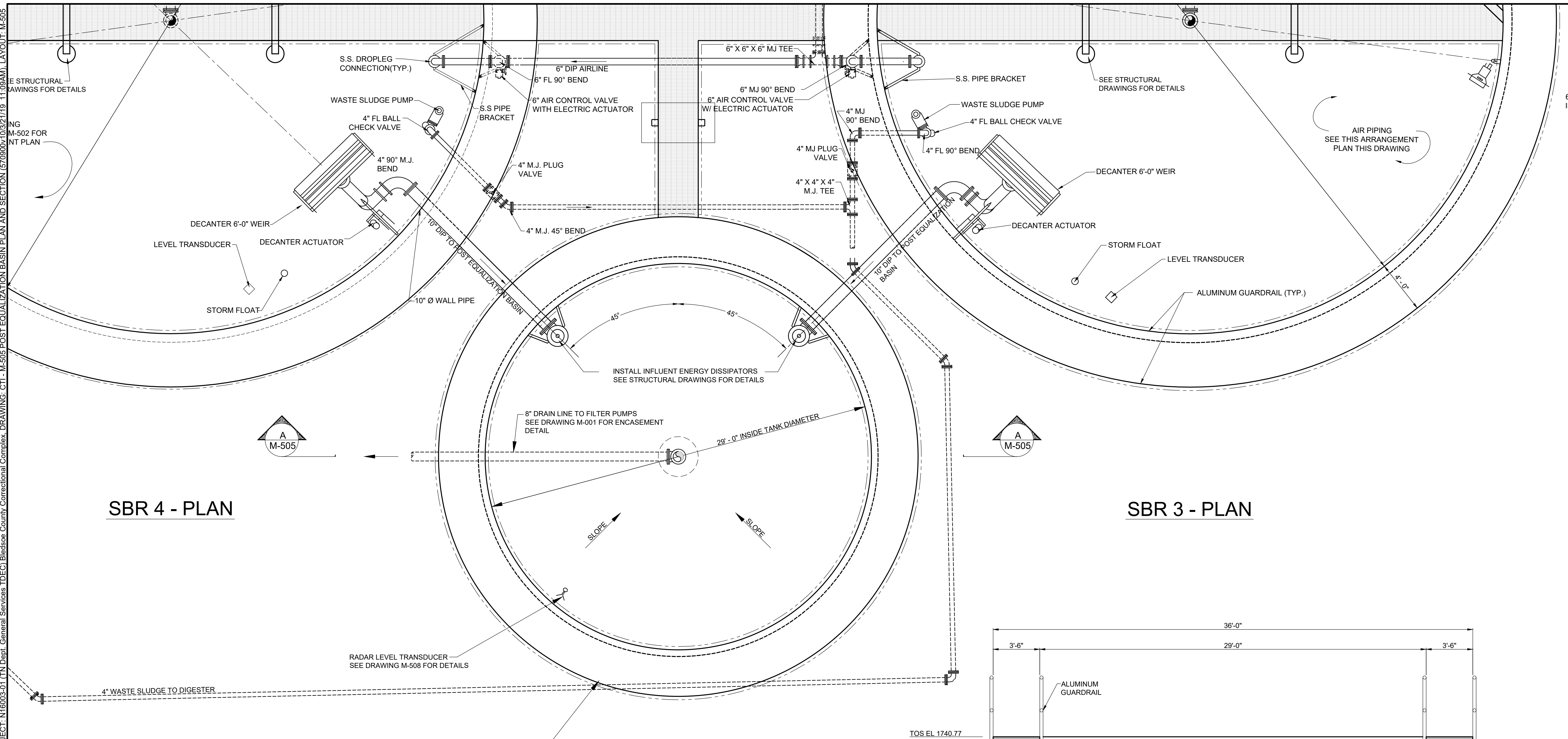


DECANTER ACTUATOR SUPPORT ELEVATION
 (1) REQ'D. AS SHOWN
 (1) REQ'D. MIRROR IMAGE

- NOTES:
1. THE TANK SUPPLIER TO PROVIDE WALL AND FLOOR ELEMENTS NECESSARY TO ACCPET BRACKETS AND OTHER ATTACHMENTS SHOWN ON THE DRAWINGS. FINAL CONFIGURATIONS AND DETAILS TO BE DETERMINED THROUGH SHOP DRAWING PROCEDURES.
 2. DECANTER DETAILS SHOWN ON THIS DRAWING ARE FROM A SPECIFIC MANUFACTURER. THEY ARE FOR BID INFORMATION ONLY. ACTUAL CONSTRUCTION DETAILS WILL BE DETERMINED THROUGH THE SHOP DRAWING REVIEW PROCESS.

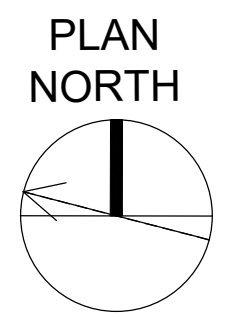
DESIGN		DRAWN		CHECKED		APPROVED	
GMC	JRH	JRH	NH	GMC			
WASTEWATER TREATMENT PLANT EXPANSION BLEDSOE COUNTY CORRECTIONAL COMPLEX PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06							
SBR SECTIONS							
JOB NO. N16003							
ISSUE DATE November 30, 2018							
SCALE AS NOTED							
DRAWING NO. M-504							

DATE OF PRINT: 3/21/2019 1:31 PM
 C.T.I. PROJECT: N16003-01 (TN Dept. General Services TDEC) Bledsoe County Correctional Complex DRAWING: CTI - M-505 POST EQUALIZATION BASIN PLAN AND SECTION (570900) 10/21/19 11:09AM, LAYOUT: M-505
 DRAWING M-502 FOR POST PLAN



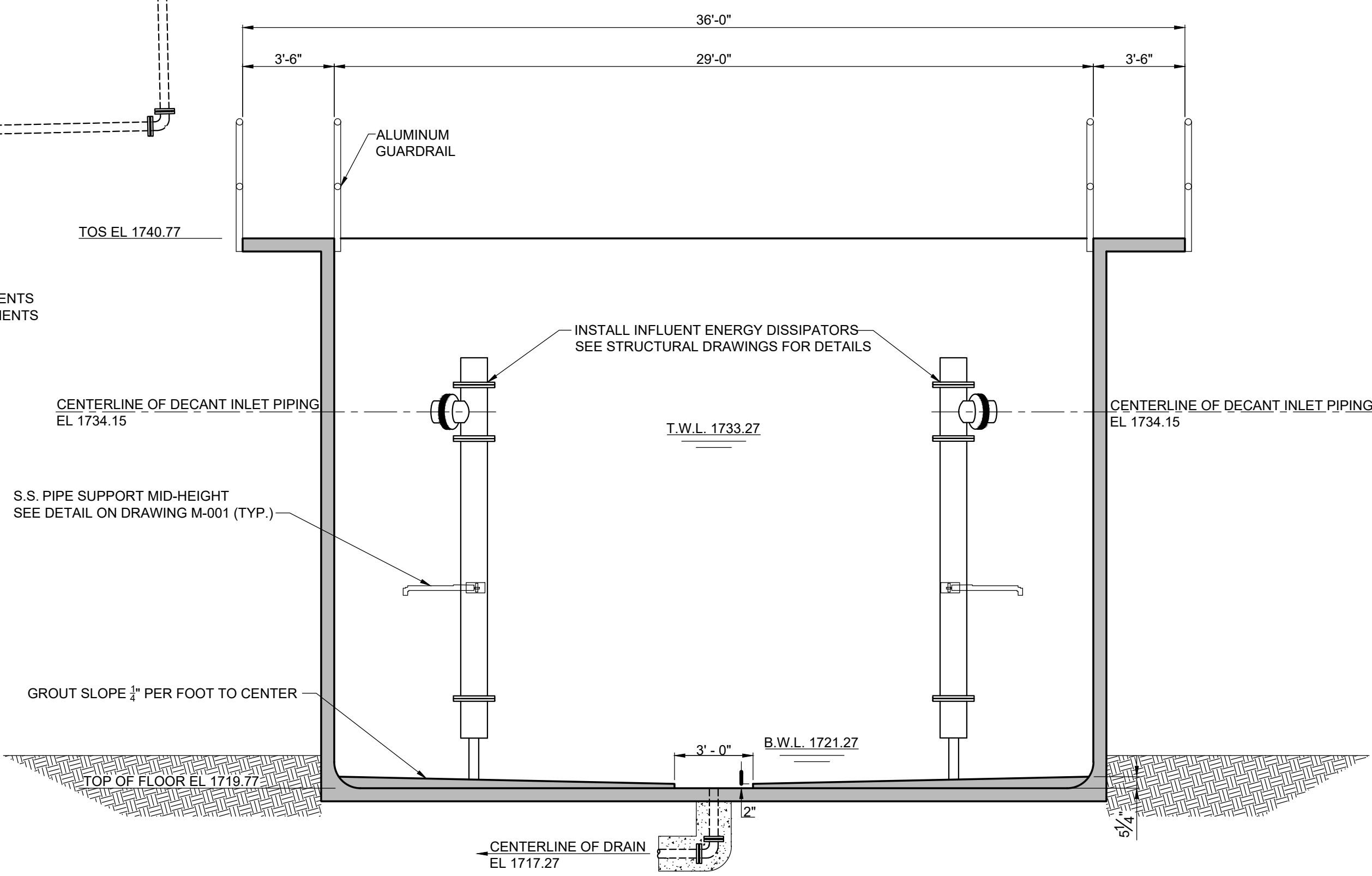
SBR 4 - PLAN

SBR 3 - PLAN



POST EQUALIZATION BASIN - PLAN
 SCALE: 1/4" = 1'-0"

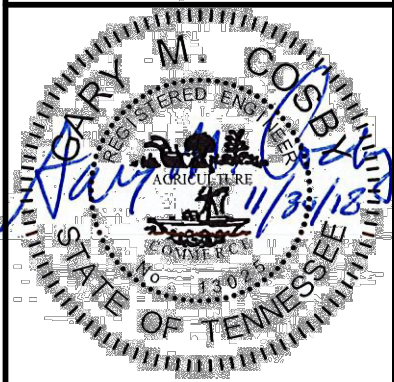
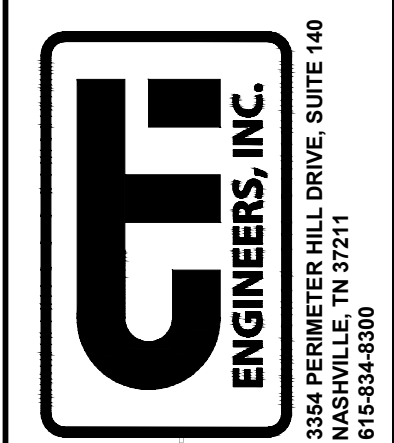
NOTE:
 1. THE TANK SUPPLIER TO PROVIDE WALL AND FLOOR ELEMENTS NECESSARY TO ACCEPT BRACKETS AND OTHER ATTACHMENTS SHOWN ON THE DRAWINGS. FINAL CONFIGURATIONS AND DETAILS TO BE DETERMINED THROUGH SHOP DRAWING PROCEDURES.



POST EQUALIZATION BASIN - SECTION
 SCALE: 1/4" = 1'-0"

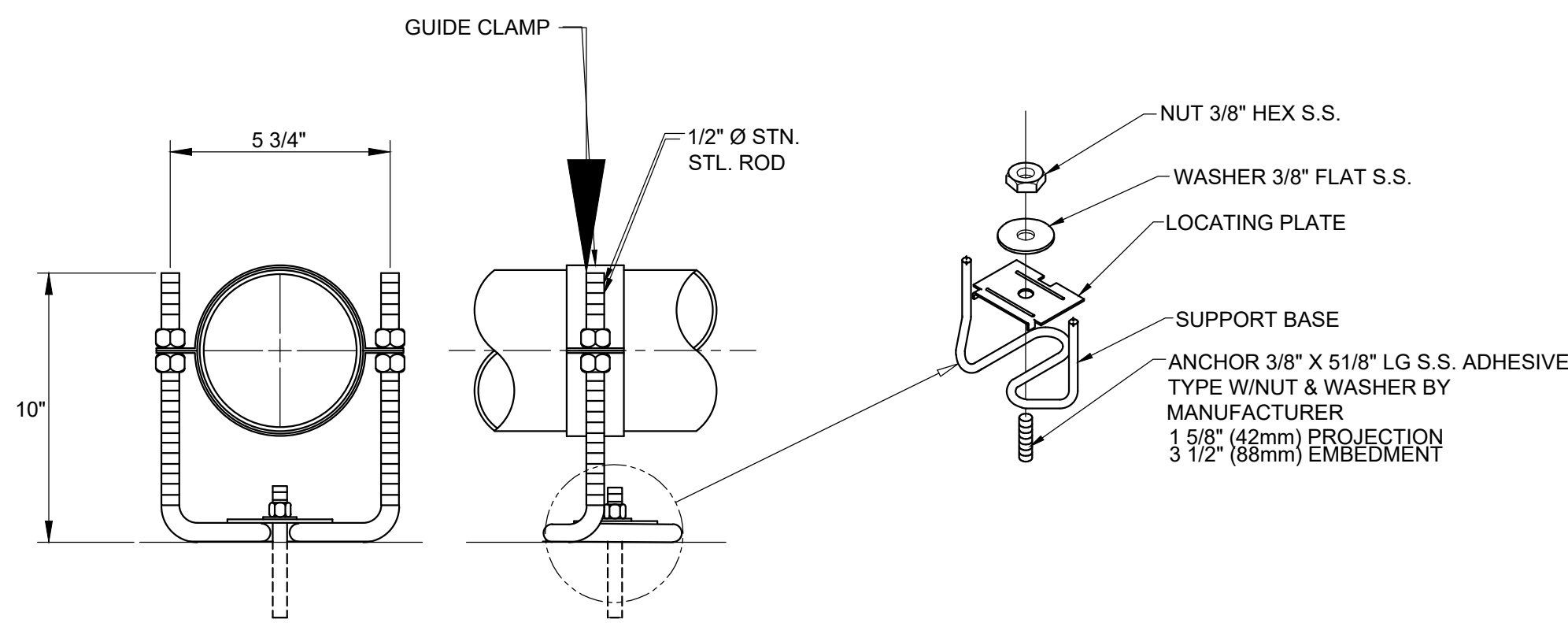
REVISIONS		DATE	BY	APPD
NO.	DESCRIPTIONS			

DESIGN GMC
DRAWN JRH
CHECKED NH
APPROVED GMC

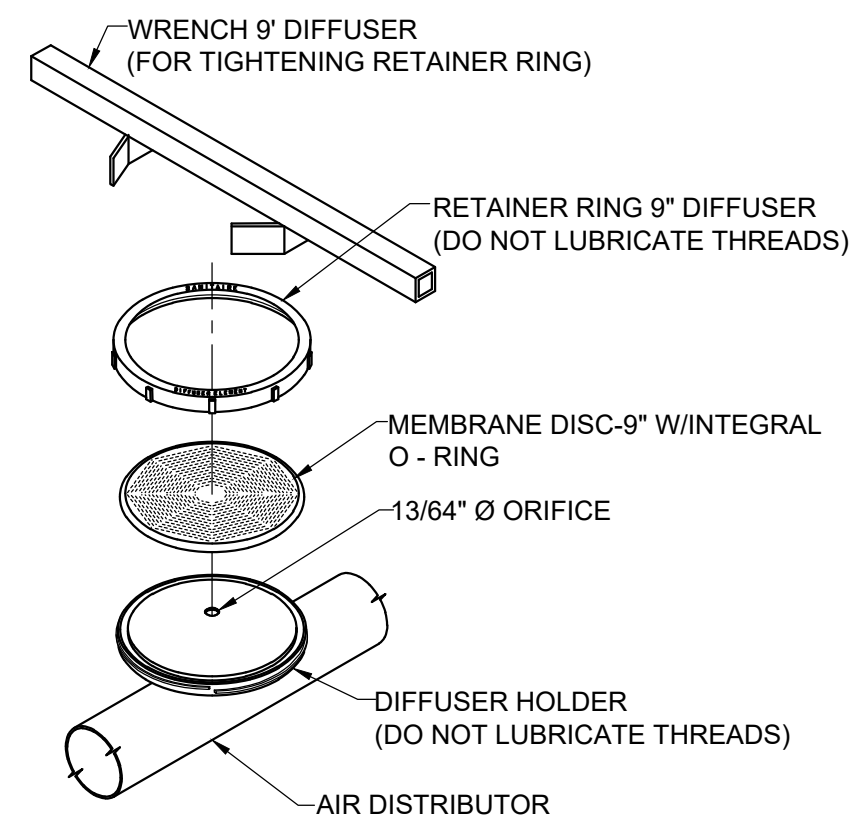


WASTEWATER TREATMENT PLANT EXPANSION
BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06
POST EQUALIZATION BASIN
PLAN AND SECTION
 JOB NO. N16003
 ISSUE DATE November 30, 2018
 SCALE 1/4" = 1'-0"
 DRAWING NO. M-505

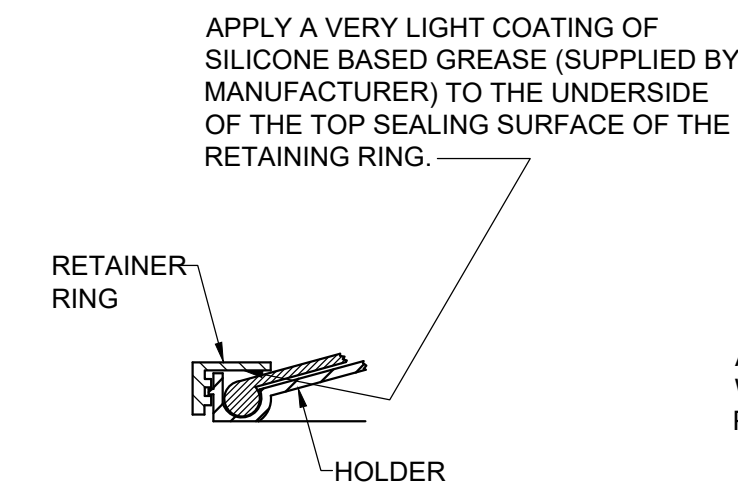
CTI PROJECT: N16003-01 (TN Dept. General Services IDEC) Bledsoe County Correctional Complex DRAWING: CTI-M-508 SBR DETAILS (1 OF 3) (6/30/18/5/12/28/19 10:00AM) LAYOUT: SBR-SECTIONS-2
 DATE OF PRINT: 3/14/2019 3:27 PM



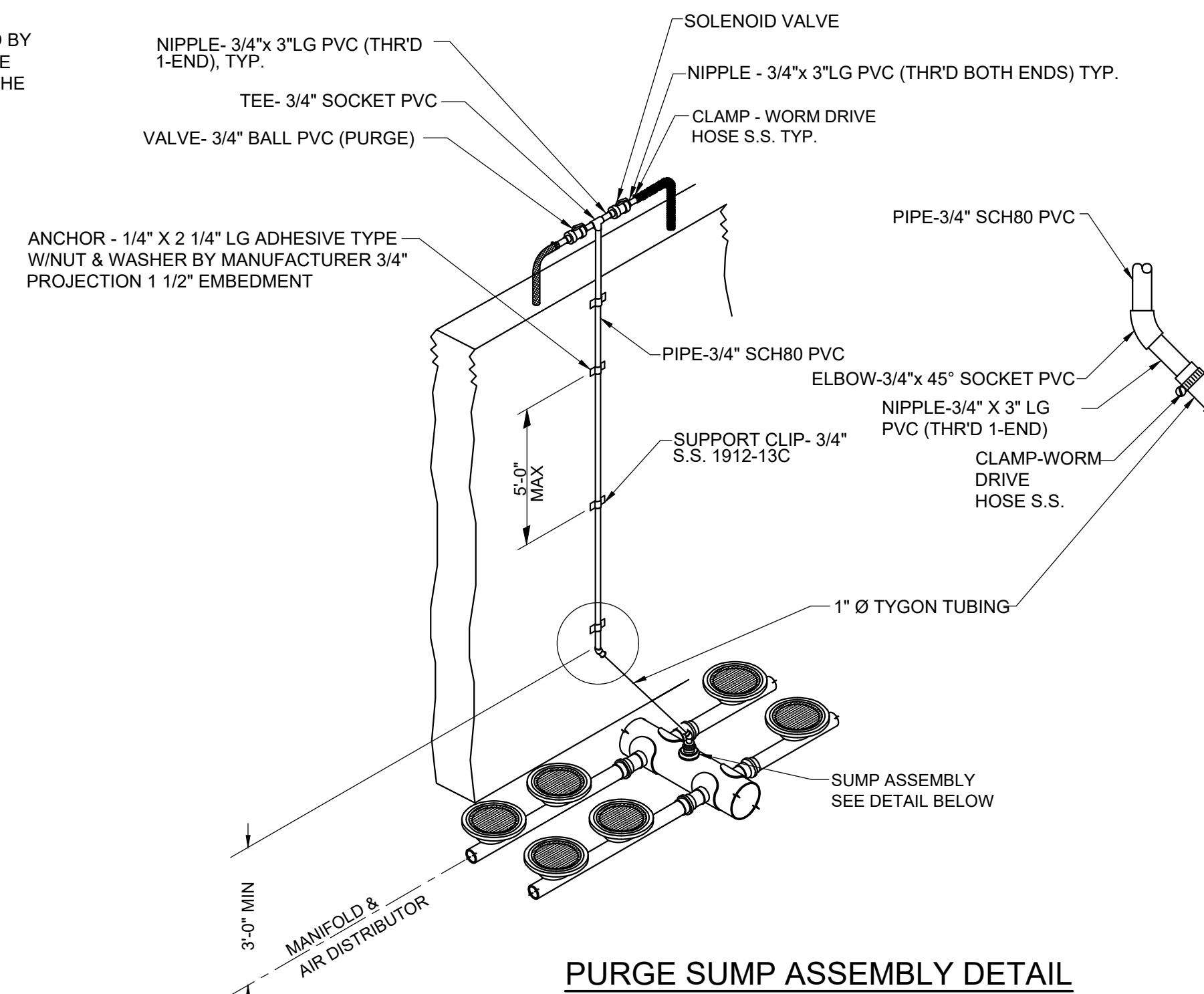
GUIDE SUPPORT DETAIL



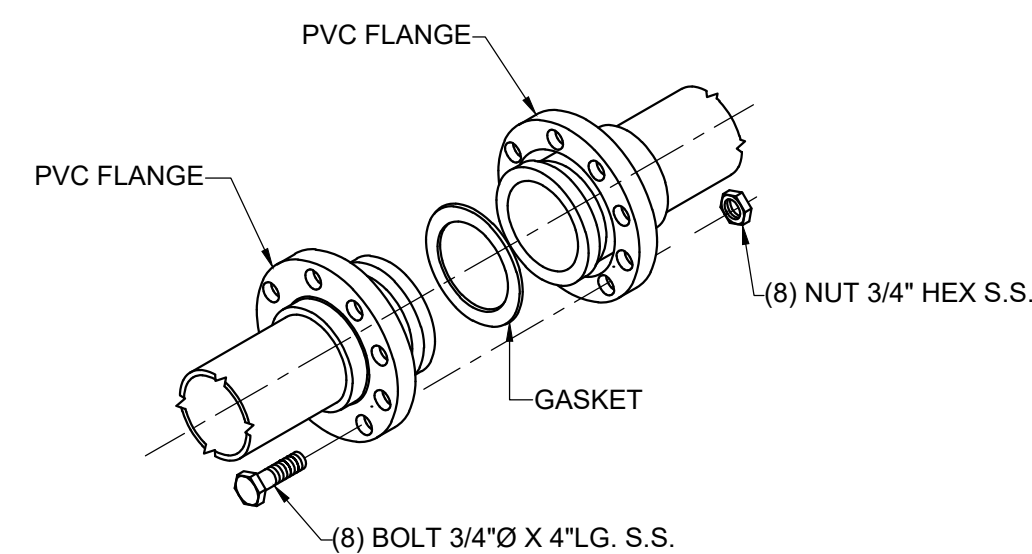
9"Ø EPDM DIFFUSER ASSEMBLY DETAIL



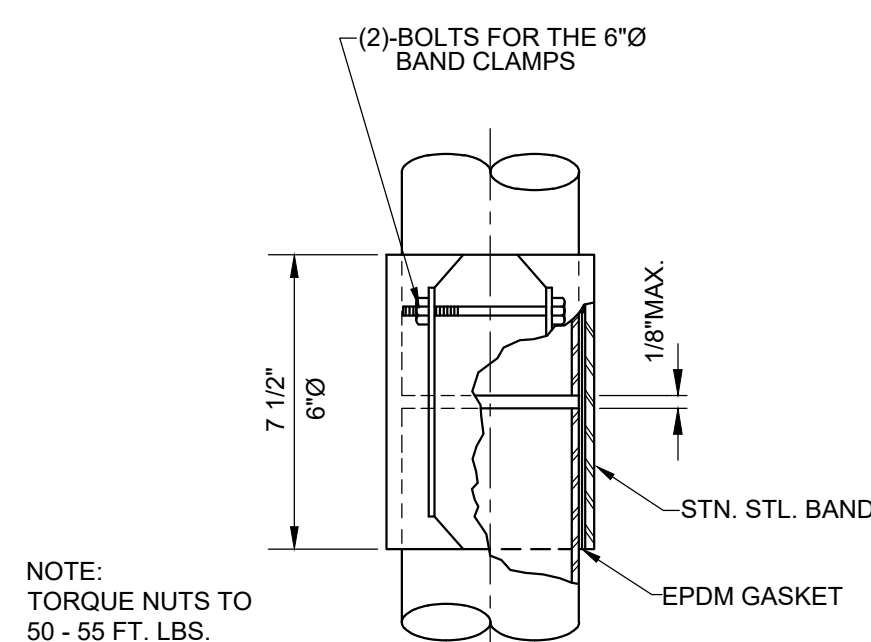
LUBRICATION DETAIL



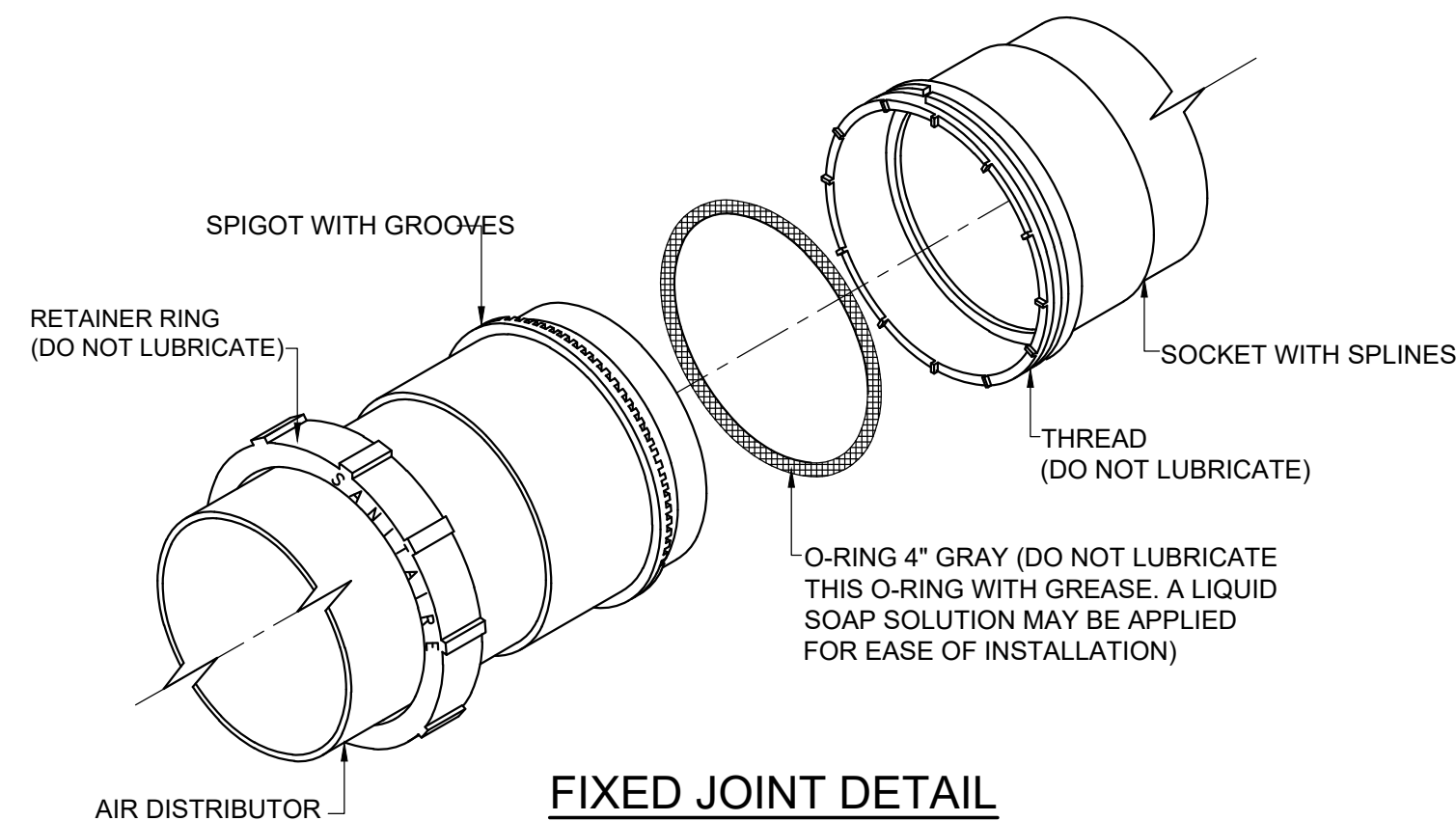
PURGE SUMP ASSEMBLY DETAIL



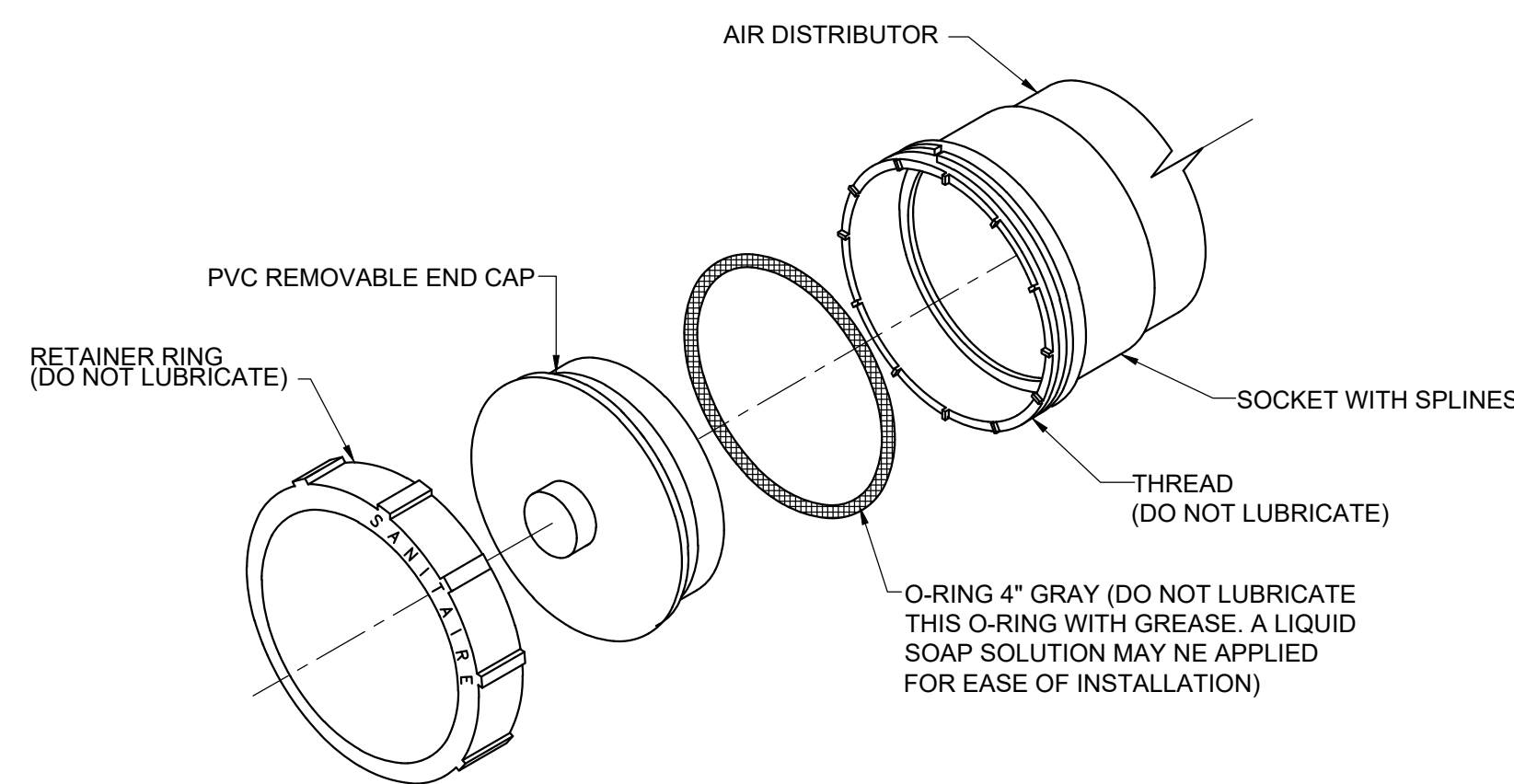
PVC FLANGE DETAIL



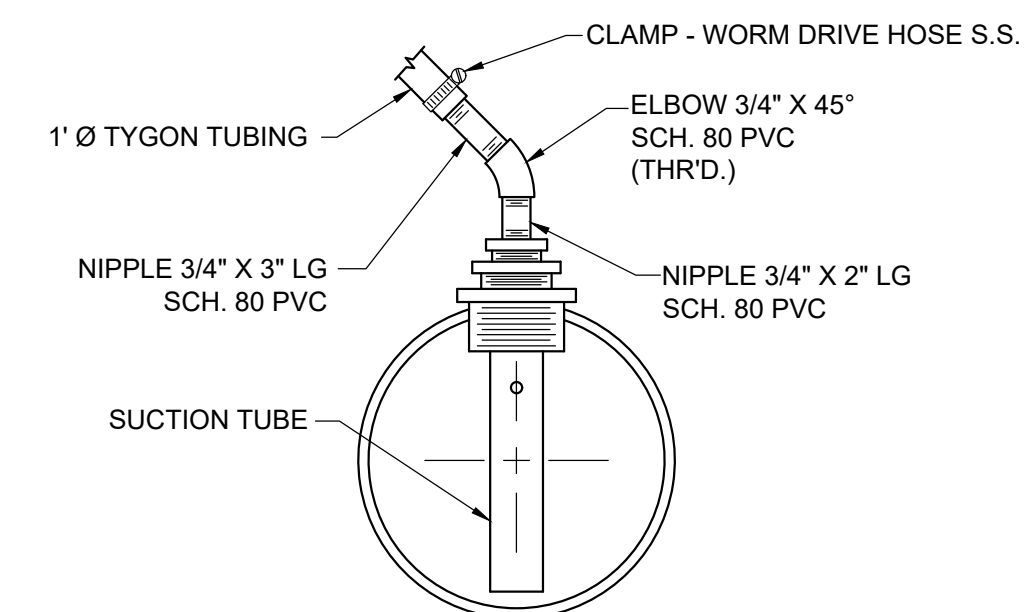
CLAMP COUPLING DETAIL



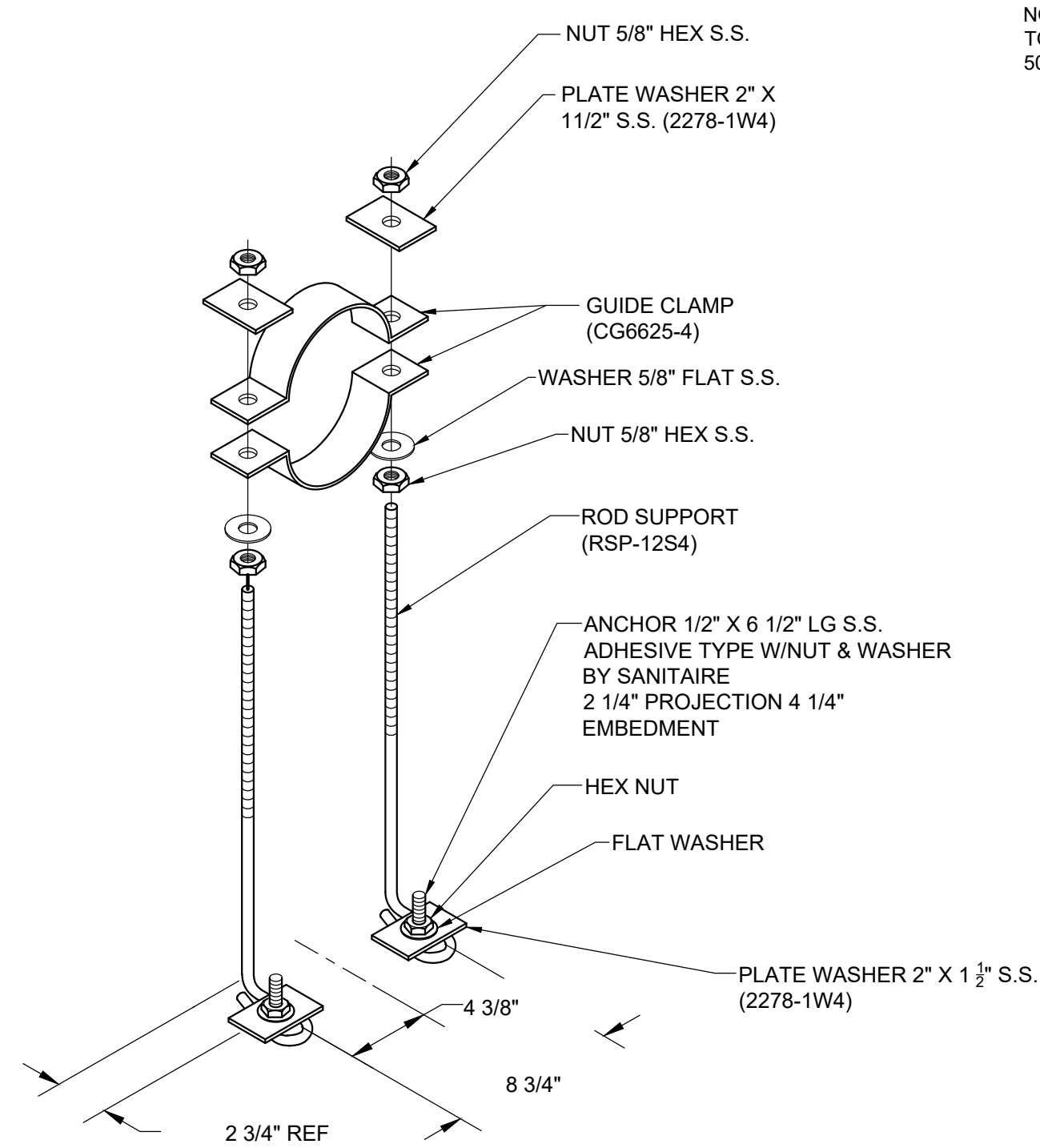
FIXED JOINT DETAIL



PVC REMOVABLE END CAP DETAIL



SUMP ASSEMBLY DETAIL



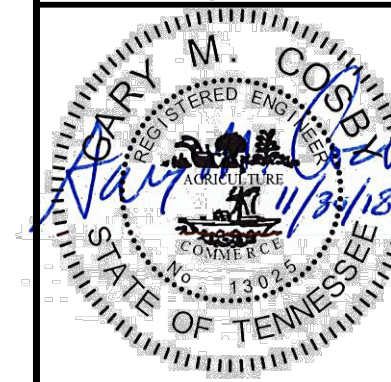
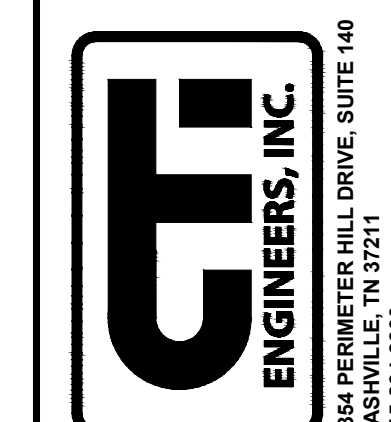
SIMPLE SUPPORT DETAIL

NOTE:

1. THE TANK SUPPLIER TO PROVIDE WALL AND FLOOR ELEMENTS NECESSARY TO ACCEPT BRACKETS AND OTHER ATTACHMENTS SHOWN ON THE DRAWINGS. FINAL CONFIGURATIONS AND DETAILS TO BE DETERMINED THROUGH SHOP DRAWING PROCEDURES.
2. DETAILS SHOWN ON THIS DRAWING WERE PROVIDED BY AN SBR EQUIPMENT MANUFACTURER. THEY ARE FOR BIDDING INFORMATION ONLY. ACTUAL CONSTRUCTION DETAILS WILL BE DETERMINED THROUGH THE SHOP DRAWING REVIEW PROCESS WITH THE SELECTED SYSTEM SUPPLIER.

REVISIONS		DESIGN	
NO.	DESCRIPTIONS	DATE	BY

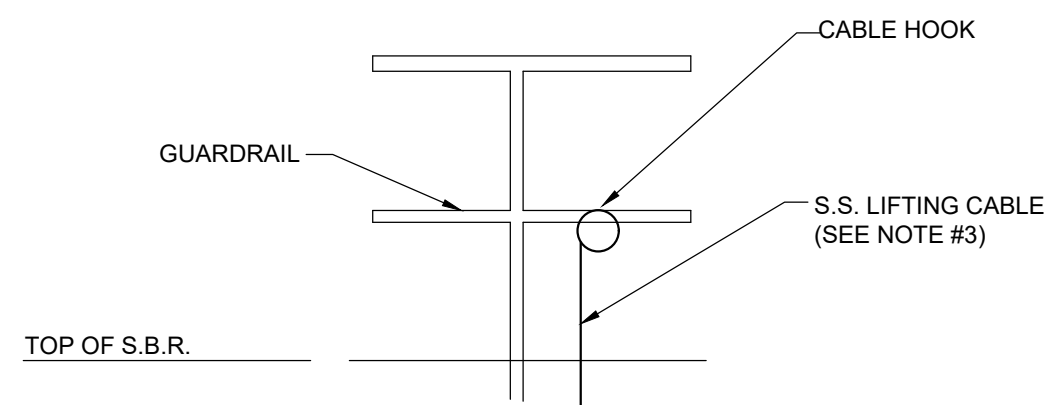
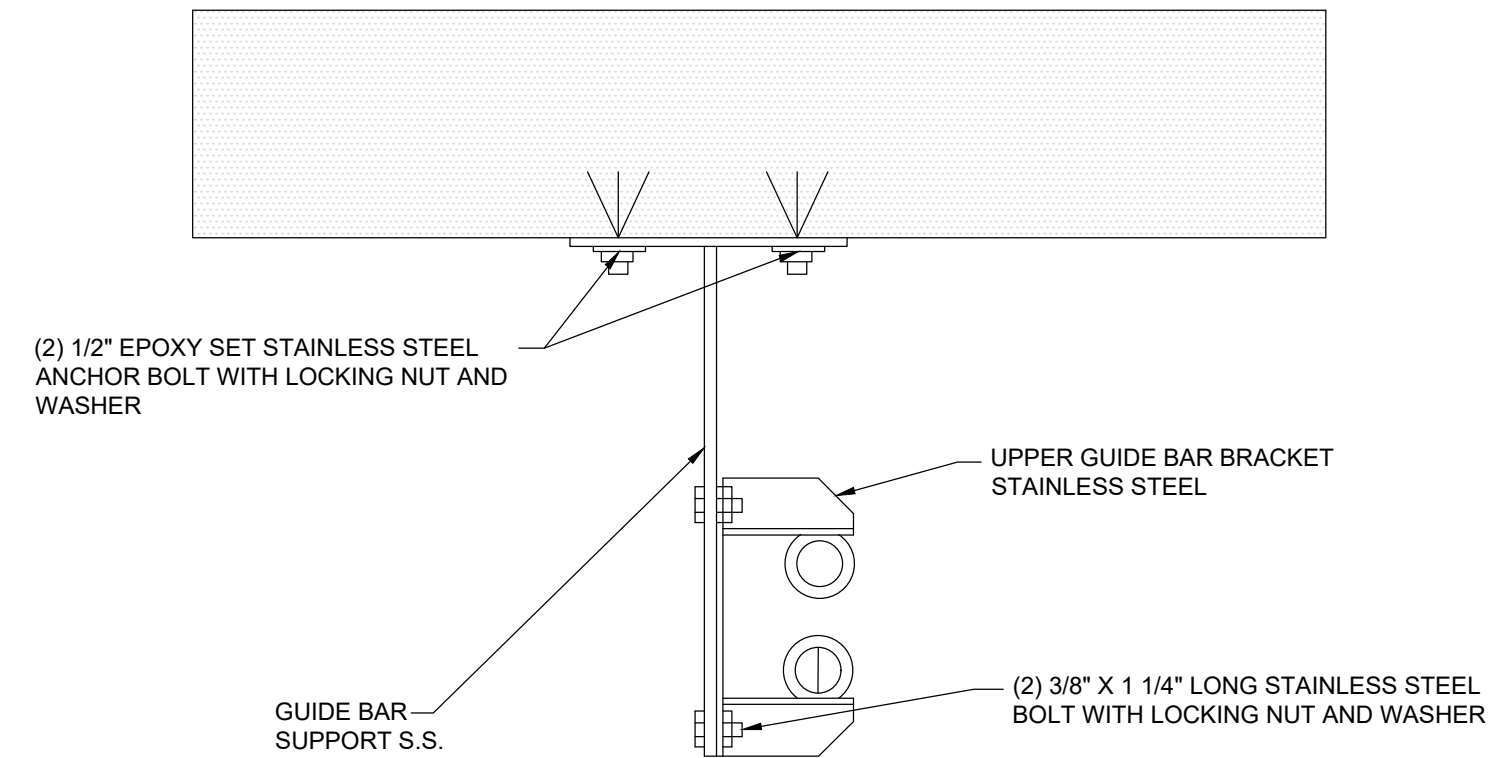
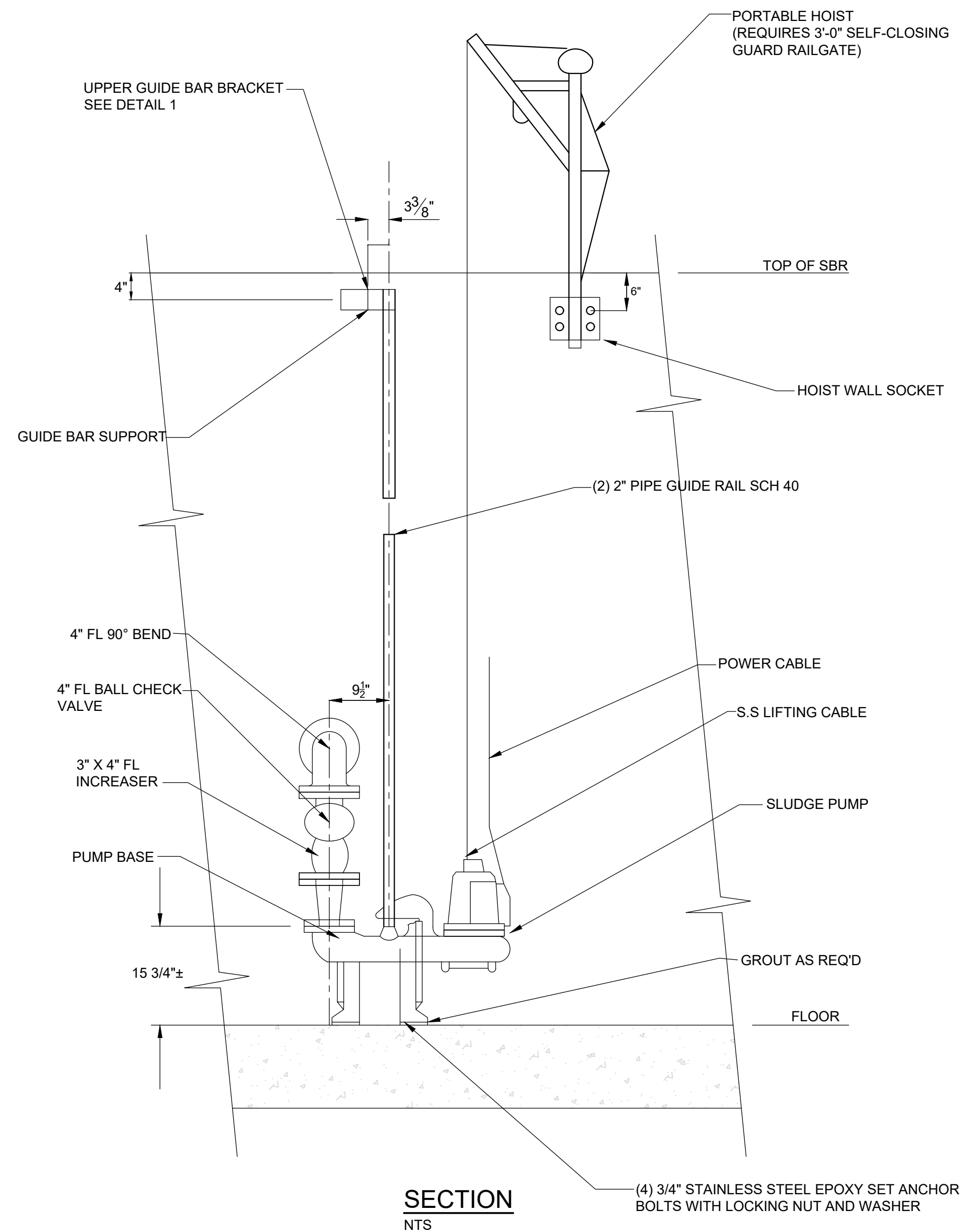
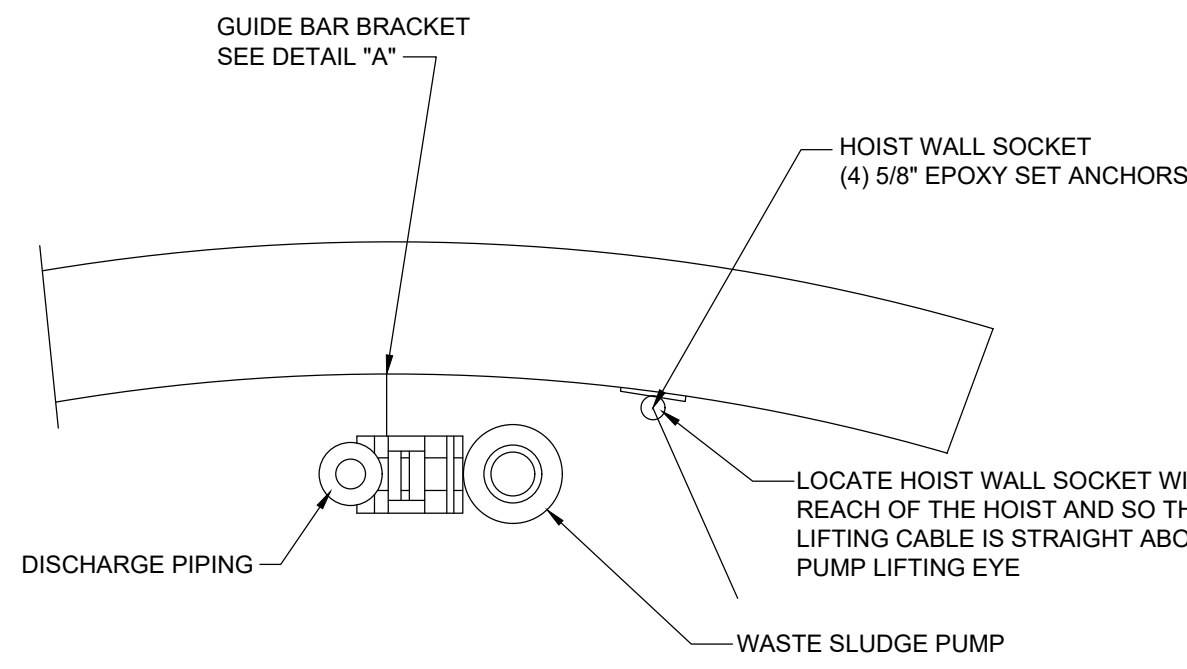
WASTEWATER TREATMENT PLANT EXPANSION
BLED SOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLED SOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06
SBR DETAILS
(1 OF 3)



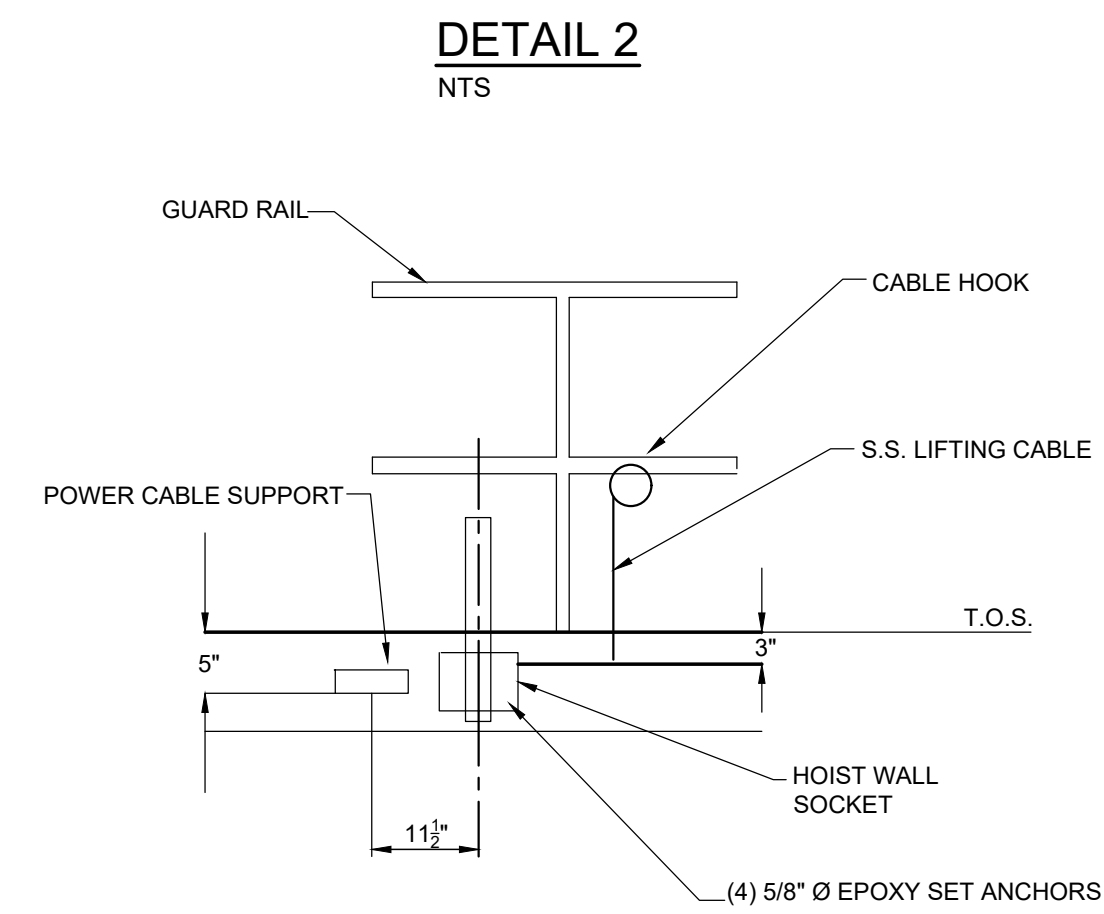
JOB NO.	N16003
ISSUE DATE	November 30, 2018
SCALE	NTS
DRAWING NO.	M-506

CTI PROJECT: N16003-01 (TN Dept. General Services IDEC) Bledsoe County Correctional Complex DRAWING: CTI - M-507 SBR DETAILS (2 OF 3) (655392/269/14/19 3:27PM) LAYOUT: M-507
 DATE OF PRINT: 11/28/2019 7:42 AM

- NOTES**
- DRAWING IS FOR ONE ASSEMBLY; TOTAL REQUIRED 2.
 - LOCATE UPPER GUIDE BAR BRACKET WITH DISCHARGE ELBOW GUIDE BARS TO BE PLUMBED AFTER PUMP IS ANCHORED.
 - COIL AND TIE WRAP HOISTING CABLE TO RAILING AS NECESSARY FOR ALL BUT ONE OF THE PUMPS, ONE UNIT'S CABLE CAN BE ATTACHED DIRECTLY TO THE HOIST.



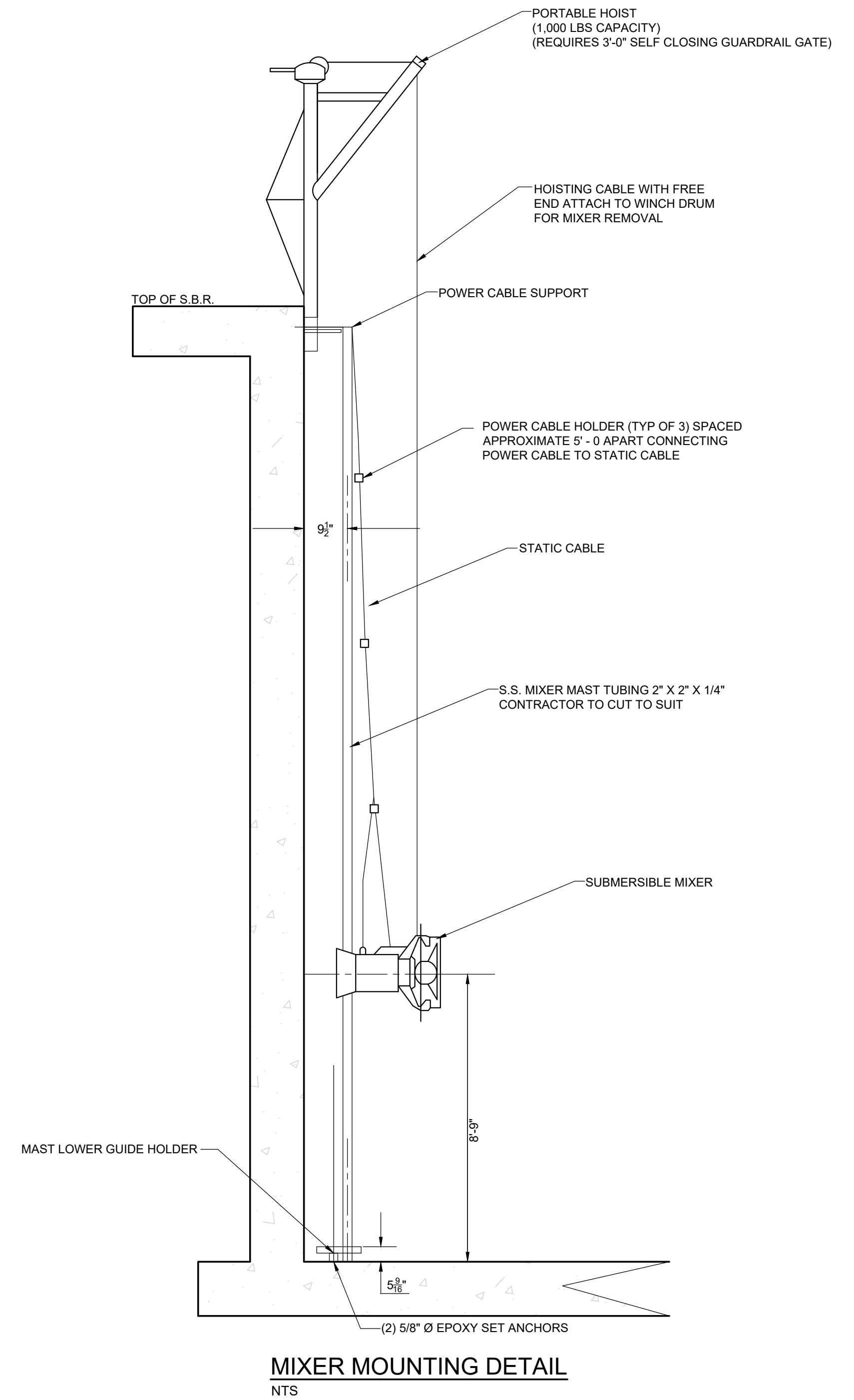
NOTE
ALL FASTENERS SHALL BE STAINLESS STEEL EPOXY SET ANCHOR BOLTS WITH LOCKING NUT AND WASHER



NOTE
COIL AND TIE EXCESS HOISTING CABLE TO RAILING AS NECESSARY FOR ALL BUT ONE OF THE MIXERS ONE UNIT'S CABLE CAN BE ATTACHED TO THE HOIST

NOTE:

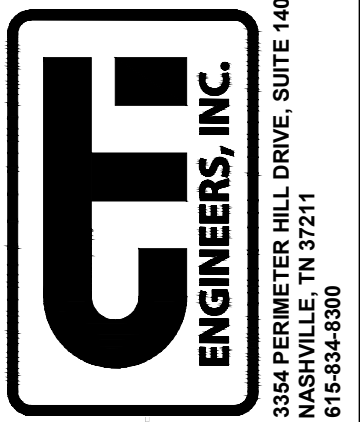
- THE TANK SUPPLIER TO PROVIDE WALL AND FLOOR ELEMENTS NECESSARY TO ACCEPT BRACKETS AND OTHER ATTACHMENTS SHOWN ON THE DRAWINGS. FINAL CONFIGURATIONS AND DETAILS TO BE DETERMINED THROUGH SHOP DRAWING PROCEDURES.
- DETAILS SHOWN ON THIS DRAWING WERE PROVIDED BY AN SBR EQUIPMENT MANUFACTURER. THEY ARE FOR BIDDING INFORMATION ONLY. ACTUAL CONSTRUCTION DETAILS WILL BE DETERMINED THROUGH THE SHOP DRAWING REVIEW PROCESS WITH THE SELECTED SYSTEM SUPPLIER.



REVISIONS	NO.	DESCRIPTIONS	DATE	BY	APPD

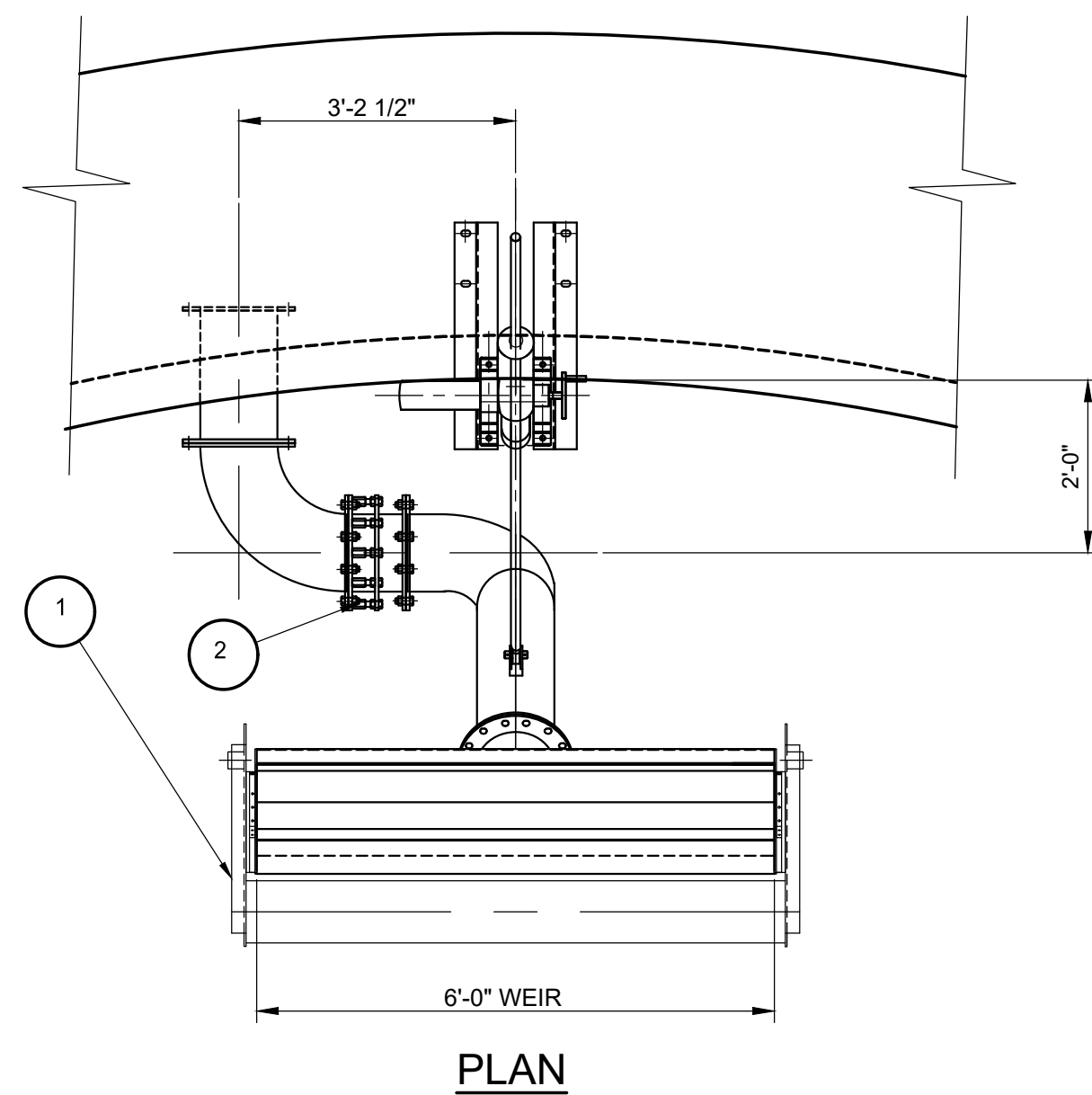
DESIGN	DRAWN	CHECKED	APPROVED
GMC	JRH	INH	GMC

WASTEWATER TREATMENT PLANT EXPANSION
BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06
SBR DETAILS
 (2 OF 3)

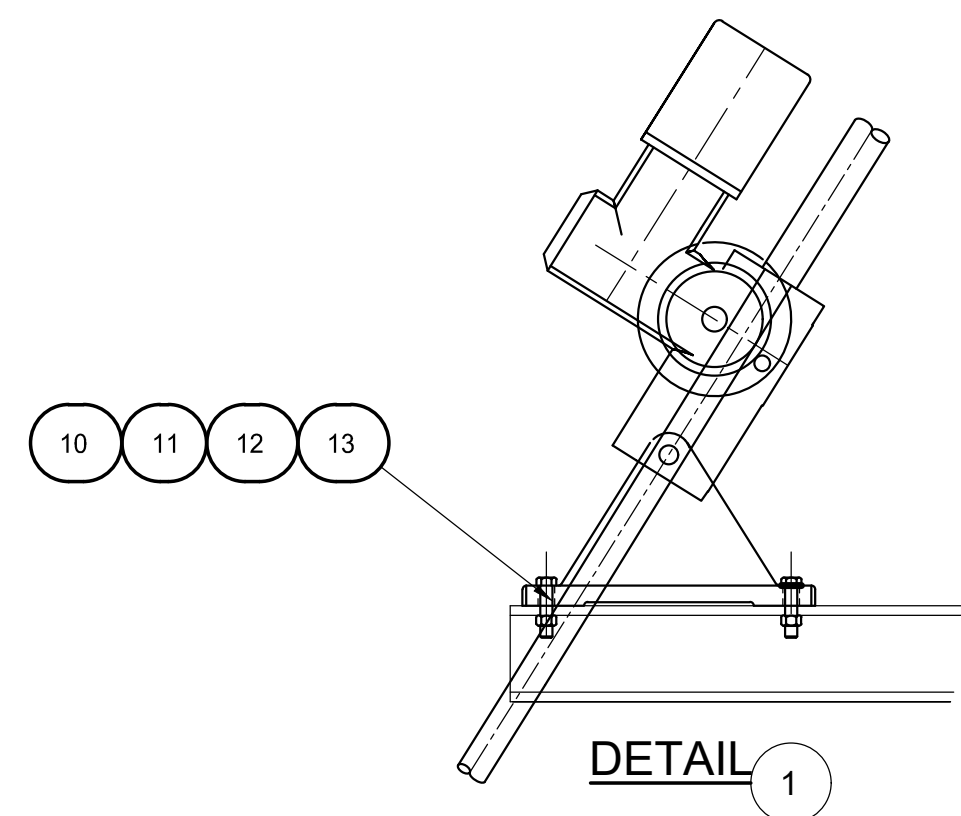


JOB NO. N16003
ISSUE DATE November 30, 2018
SCALE NTS
DRAWING NO. M-507

CTI PROJECT: N16003-01 (TN Dept. General Services IDEC) Bledsoe County Correctional Complex DRAWING: CTI-M-508 SBR DETAILS (3 OF 3) (6/7/2019 10:02AM) LAYOUT: SBR-SECTIONS-4
 DATE OF PRINT: 3/14/2019 3:27 PM

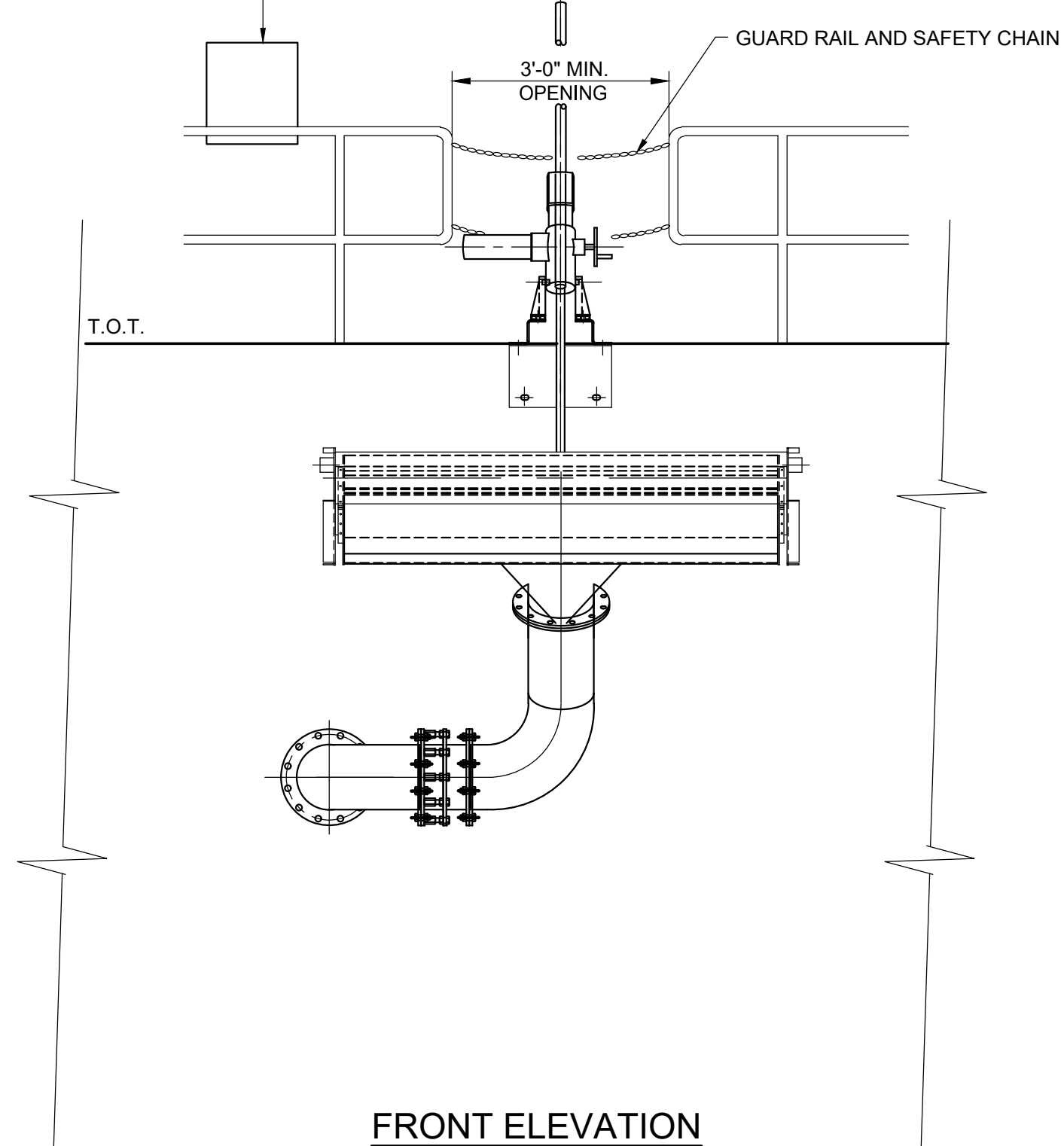


PLAN

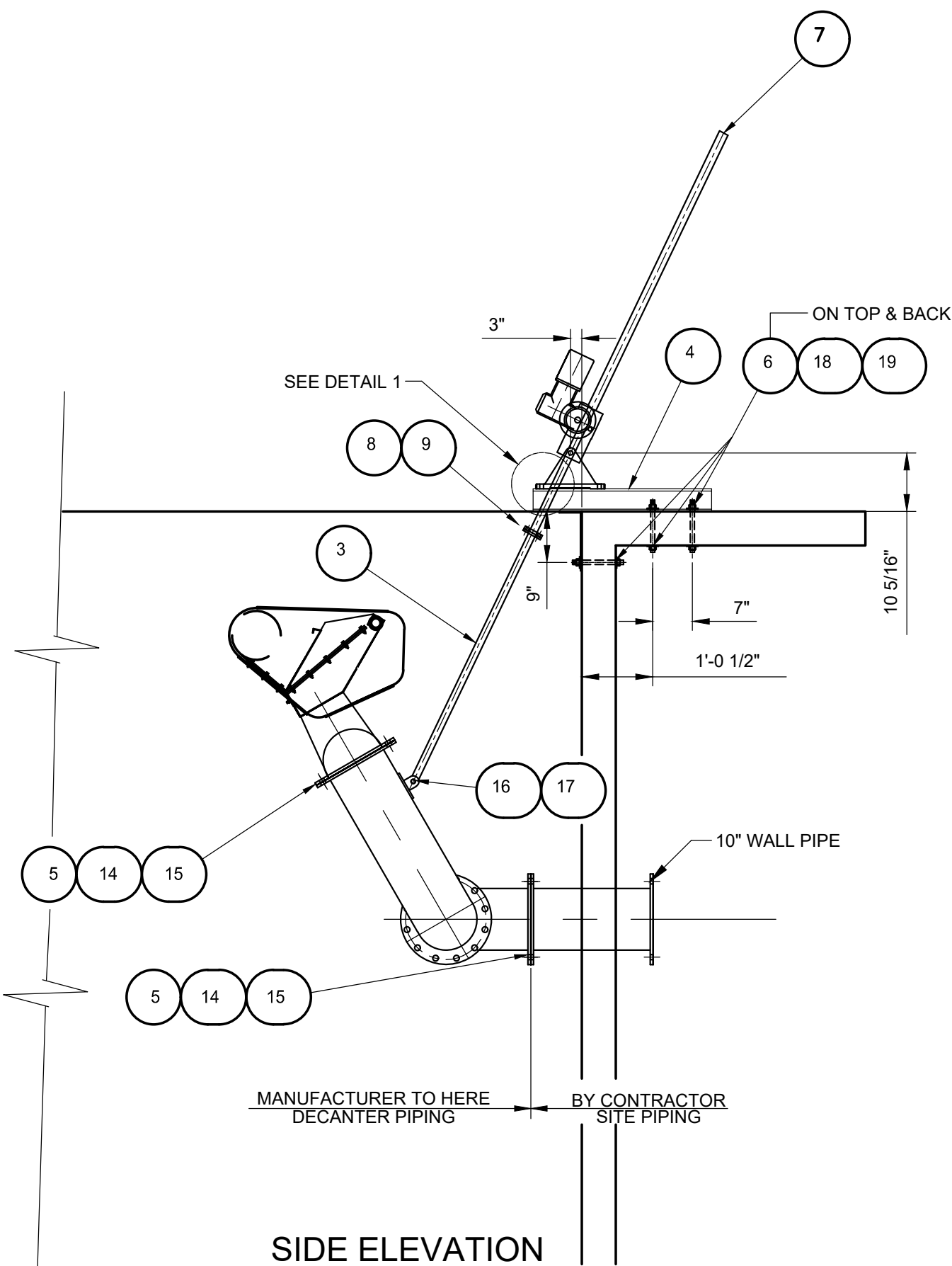


DETAIL 1

DECANTER LOCAL CONTROL STATION LOCATED 4'-0" TO 6'-0" FROM ACTUATOR



FRONT ELEVATION



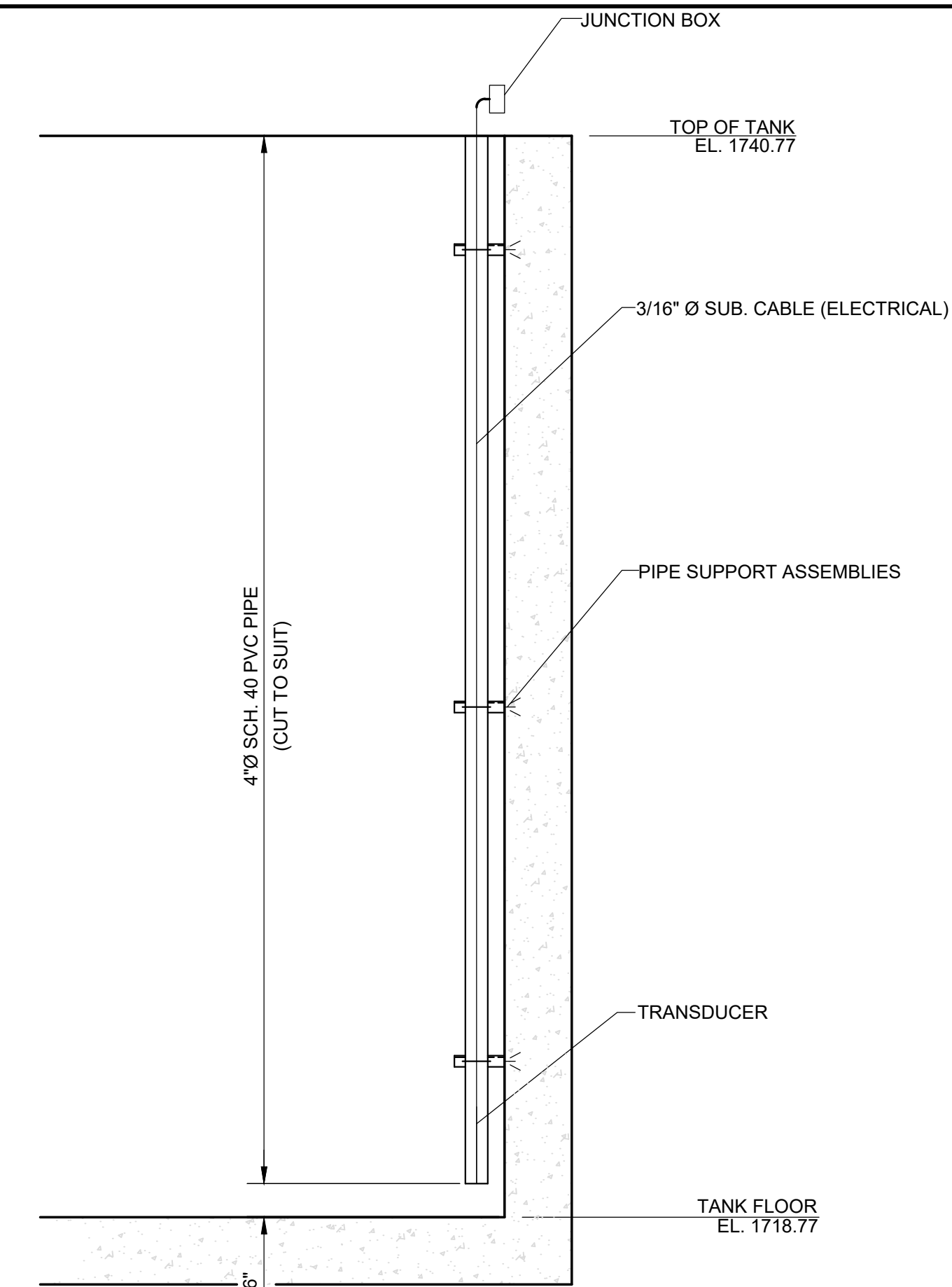
SIDE ELEVATION

DECANTER MAIN ASSEMBLY

ITEM	QTY	DESCRIPTION	MAT'L.
1	1	DECANTER SUB-ASSEMBLY	S.S.
2	1	SWIVEL JOINT, 10" FLANGED	S.S.
3	1	CONNECTING ROD, ACTUATOR	S.S.
4	1	ACTUATOR BRACKET ASSEMBLY	S.S.
5	2	FLANGE GASKET, 10"Ø STD. 150# DRILLING	NEOPRENE
6	10	PLATEWASHER 2" x 2" x 1/4"	S.S.
7	1	ACTUATOR	-
8	4	BOLT, HEX HEAD, 3/8-16UNC X 1 3/4" LG	S.S.
9	4	NUT, HEX HEAD, 3/8-16UNC	S.S.
10	4	BOLT, HEX HEAD, 5/8-11UNC X 2" LG	S.S.
11	4	NUT, HEX HEAD, 5/8-11UNC	S.S.
12	4	FLAT WASHER, 5/8"	S.S.
13	4	LOCKWASHER, 5/8" SPLIT	S.S.
14	24	BOLT, HEX HEAD, 7/8-9UNC X 2 1/4" LG	S.S.
15	24	NUT, HEX HEAD, 7/8-9UNC	S.S.
16	1	BOLT, HEX HEAD, 1-8UNC X 4" LG	S.S.
17	2	NUT, HEX HEAD, 1-8UNC	S.S.
18	6	BOLT, HEX HEAD Ø3/4"-10UNC X 9" LG	S.S.
19	6	NUT, HEX HEAD, 3/4-11UNC	S.S.

GENERAL NOTES:

1. THE TANK SUPPLIER TO PROVIDE WALL AND FLOOR ELEMENTS NECESSARY TO ACCEPT BRACKETS AND OTHER ATTACHMENTS SHOWN ON THE DRAWINGS. FINAL CONFIGURATIONS AND DETAILS TO BE DETERMINED THROUGH SHOP DRAWING PROCEDURES.
2. QUANTITIES SHOWN ARE FOR ONE DECANTER. TOTAL ASSEMBLIES REQUIRED: 1 R.H. & 1 L.H. (RIGHT HAND DECANTER SHOWN)
3. ALL THREADED CONNECTIONS MADE IN THE FIELD TO BE DRESSED WITH LOCKING THREAD COMPOUND.
4. DETAILS SHOWN ON THIS DRAWING WERE PROVIDED BY AN SBR EQUIPMENT MANUFACTURER. THEY ARE FOR BIDDING INFORMATION ONLY. ACTUAL CONSTRUCTION DETAILS WILL BE DETERMINED THROUGH THE SHOP DRAWING REVIEW PROCESS WITH THE SELECTED SYSTEM SUPPLIER.

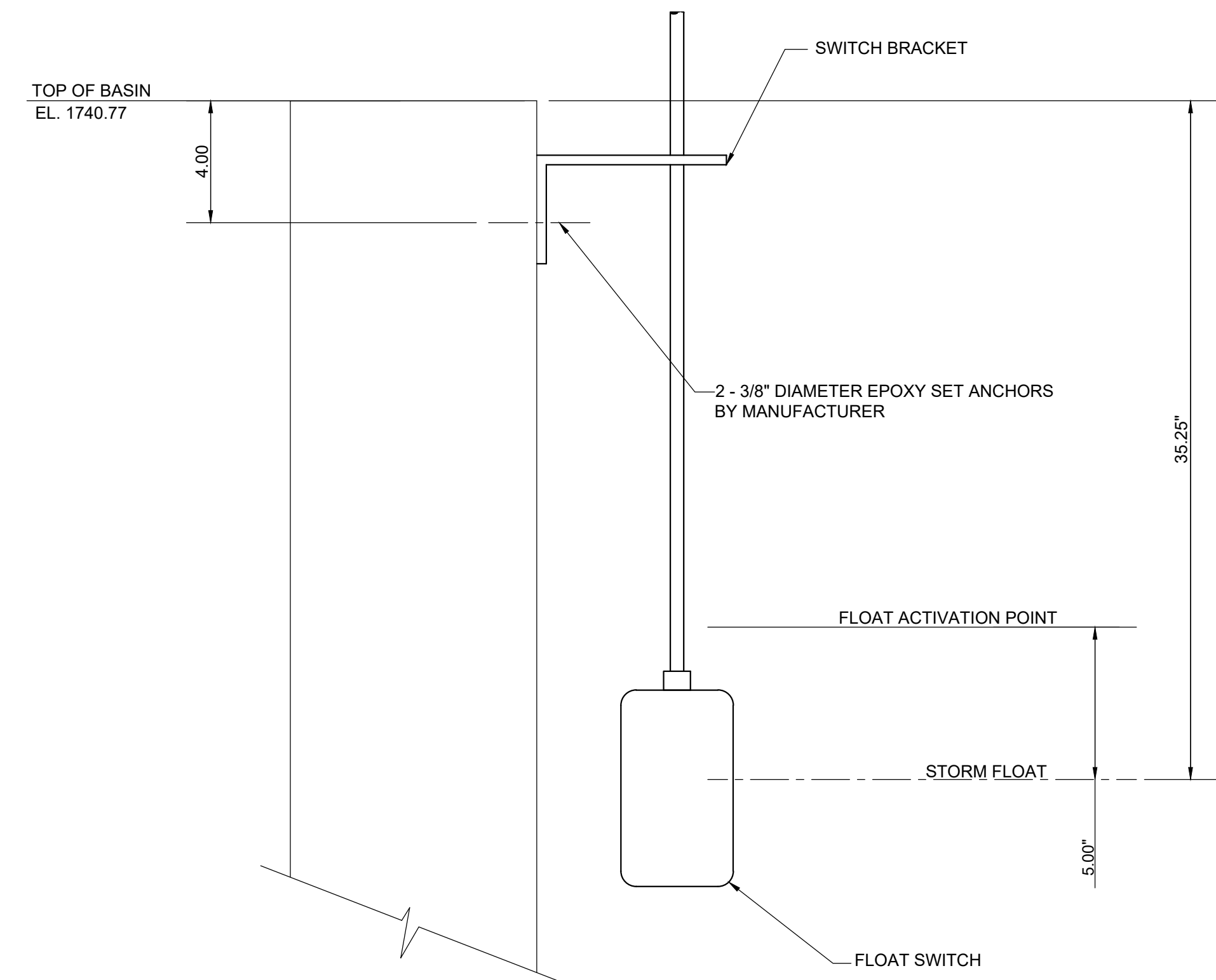


LEVEL TRANSDUCER ASSEMBLY DETAIL

NTS

NOTES:

1. PROVIDE CONDUIT, JUNCTION BOXES, AND TWO-CONDUCTOR SHIELDED CABLE AS REQUIRED BY TRANSDUCER MANUFACTURER.
2. ELECTRICAL CABLE TO BE TIED OFF W/CORD GRIP AT EXIT OF JUNCTION BOX.



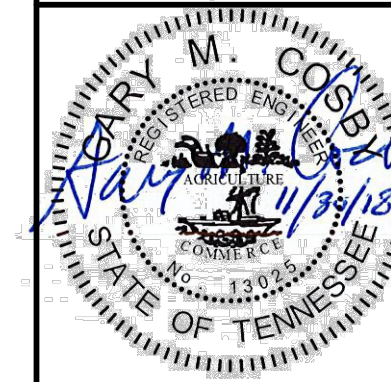
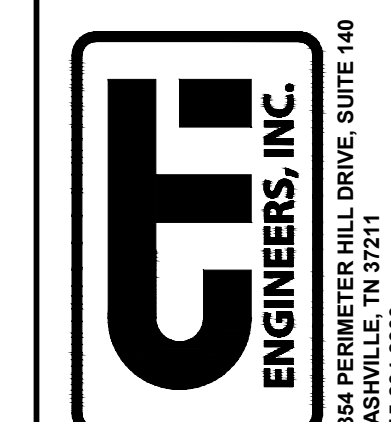
BASIN FLOAT SWITCH INSTALLATION

NTS

NO.	REVISIONS DESCRIPTIONS	DATE		BY		APPD	

DESIGN	GMC	DRAWN	JRH	CHECKED	INH	APPROVED	GMC
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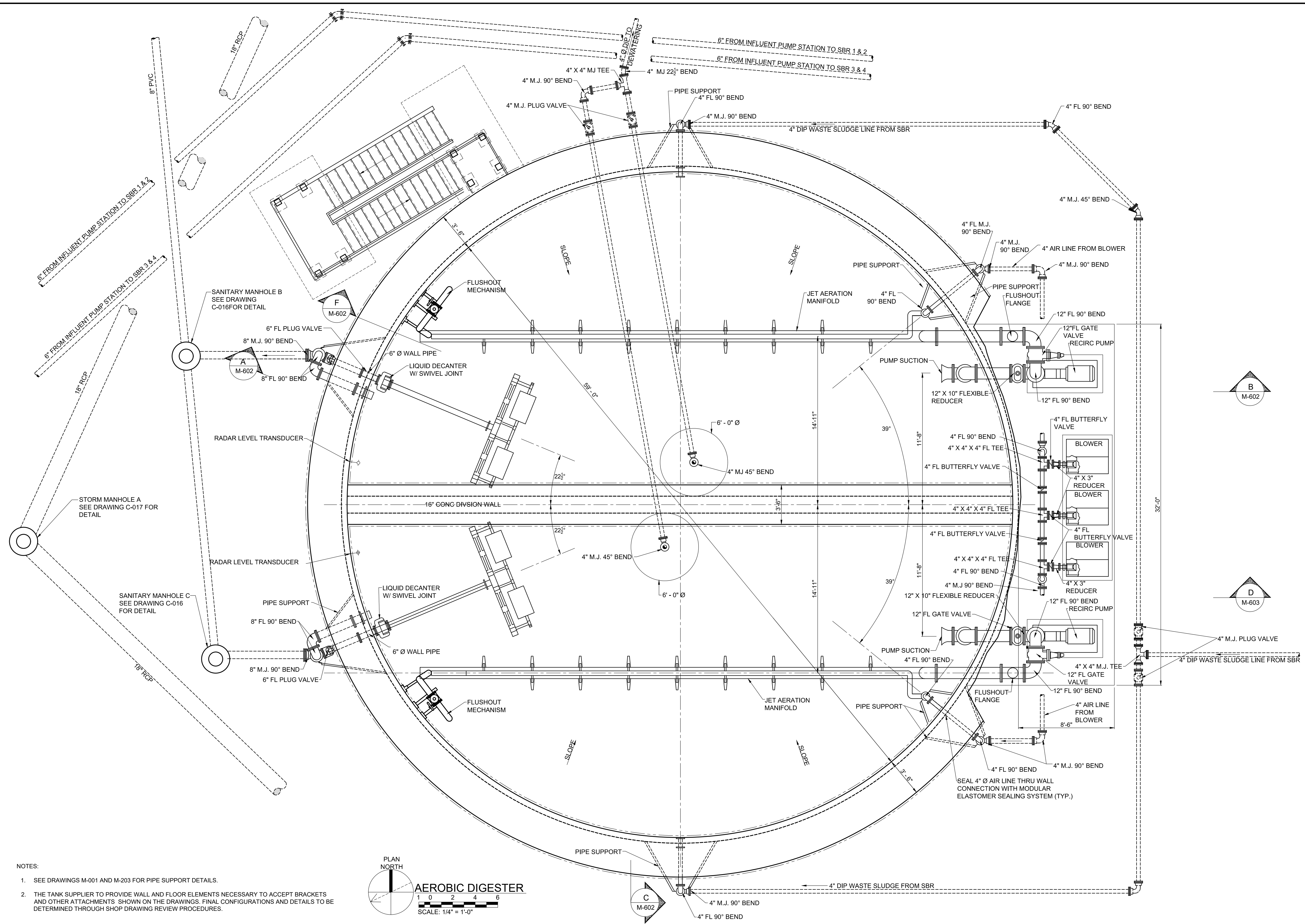
WASTEWATER TREATMENT PLANT EXPANSION
BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06
SBR DETAILS
(3 OF 3)



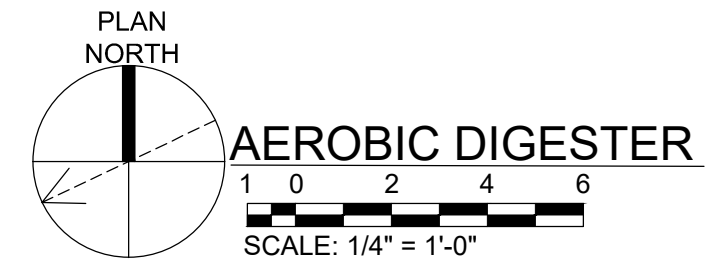
JOB NO.
N16003
 ISSUE DATE
November 30, 2018
 SCALE
NTS
 DRAWING NO.
M-508

CTI PROJECT: N16003-01 (TN Dept. General Services TDEC) Bledsoe County Correctional Complex. DRAWING: CTI - M-601 AEROBIC DIGESTER PLAN (539190423/1/19 10:10AM) LAYOUT: AEROBIC DIGESTER PLAN

DATE OF PRINT: 3/11/2019 12:40 PM



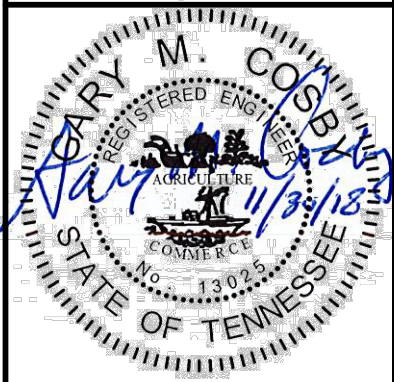
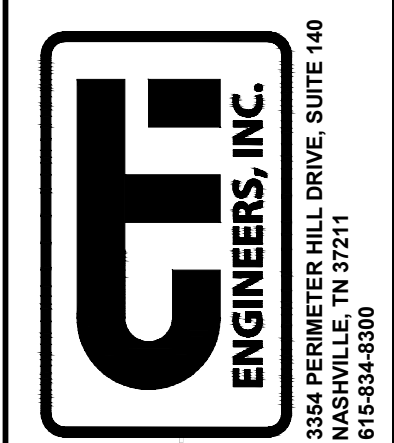
- NOTES:
- SEE DRAWINGS M-001 AND M-203 FOR PIPE SUPPORT DETAILS.
 - THE TANK SUPPLIER TO PROVIDE WALL AND FLOOR ELEMENTS NECESSARY TO ACCEPT BRACKETS AND OTHER ATTACHMENTS SHOWN ON THE DRAWINGS. FINAL CONFIGURATIONS AND DETAILS TO BE DETERMINED THROUGH SHOP DRAWING REVIEW PROCEDURES.



REVISIONS	
NO.	DESCRIPTIONS

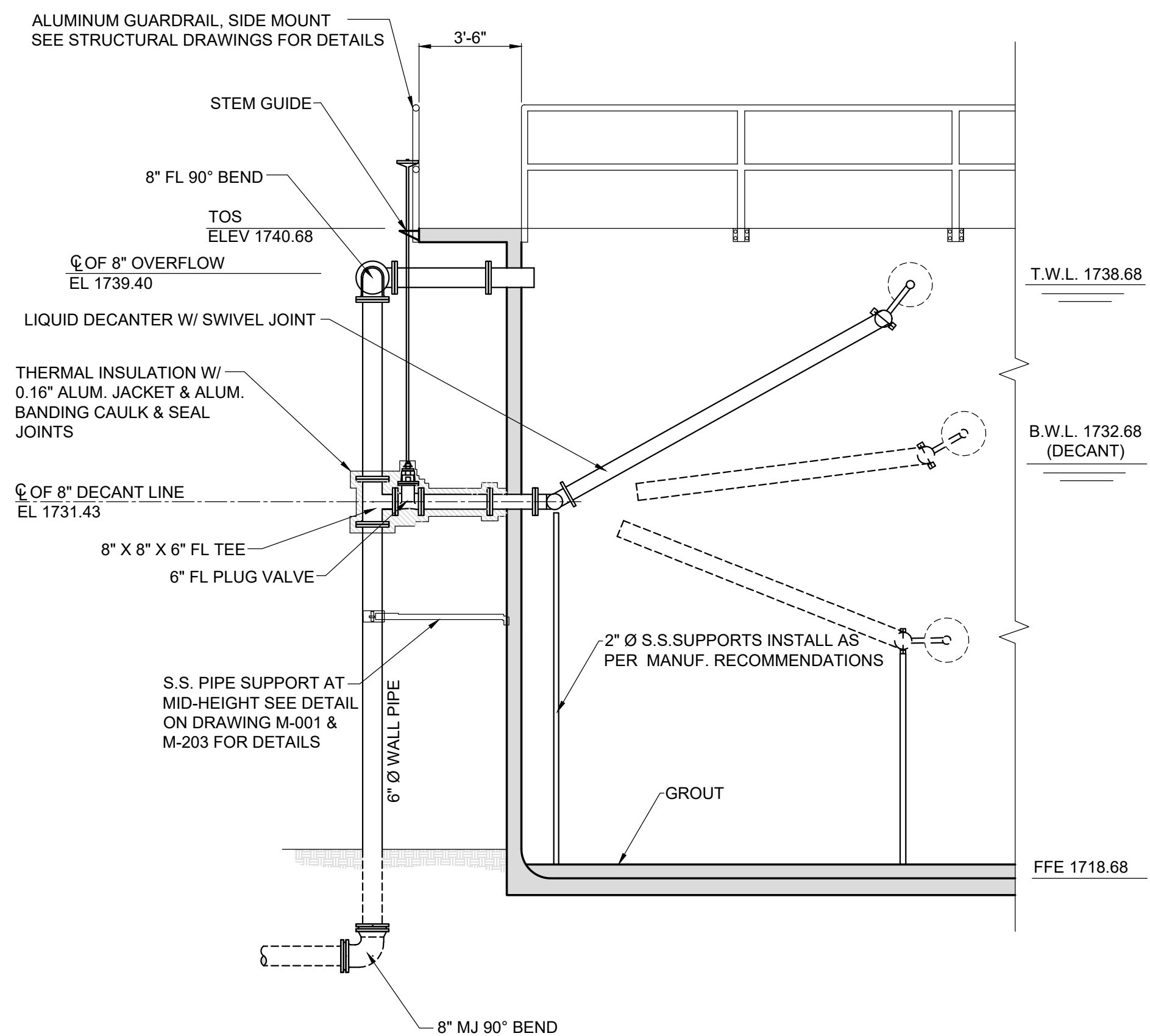
DESIGN	GMC
DRAWN	JRH
CHECKED	NH
APPROVED	GMC

WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06
AEROBIC DIGESTER PLAN

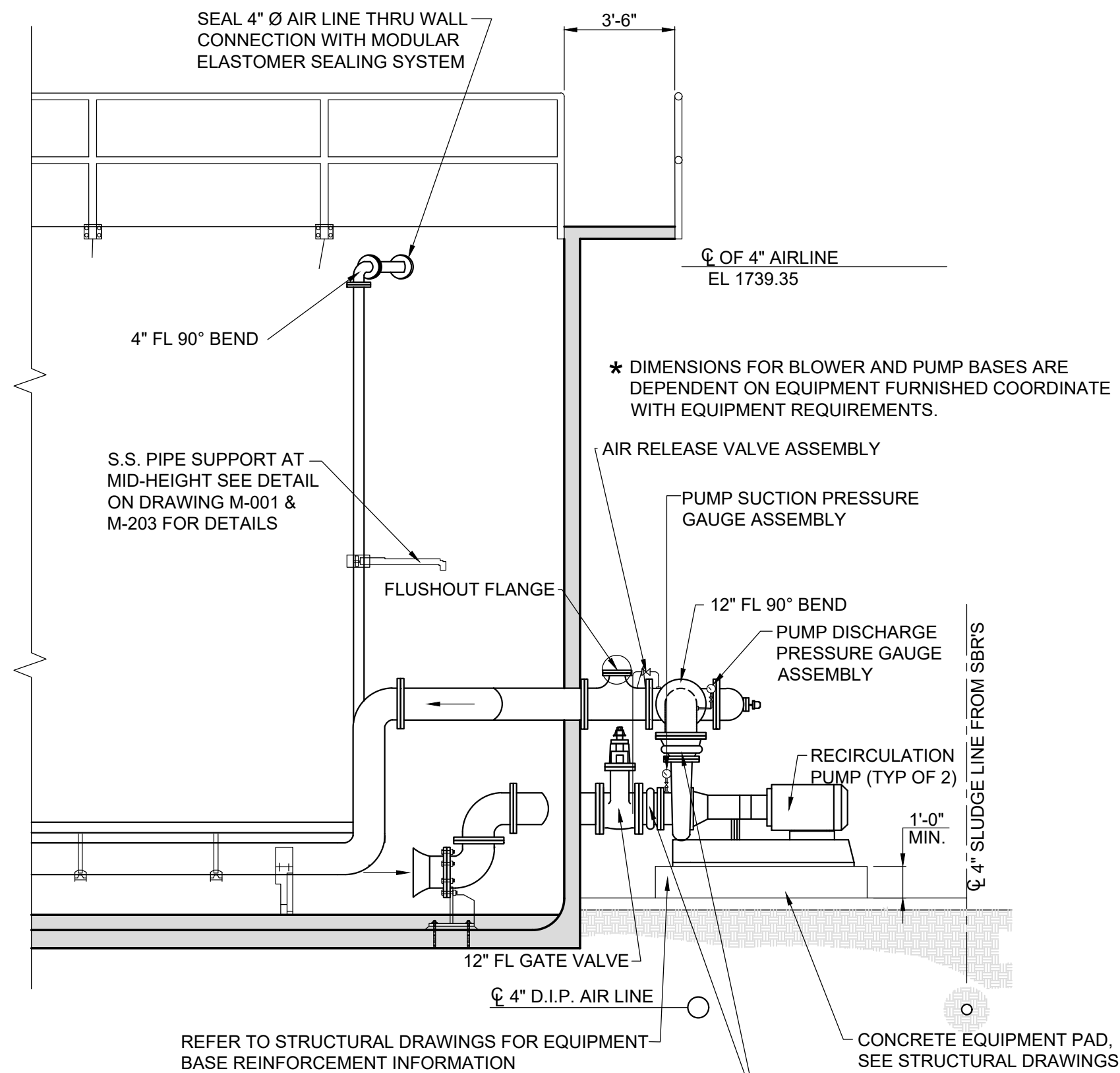


JOB NO.
N16003
 ISSUE DATE
November 30, 2018
 SCALE
1/4" = 1'-0"
 DRAWING NO.
M-601

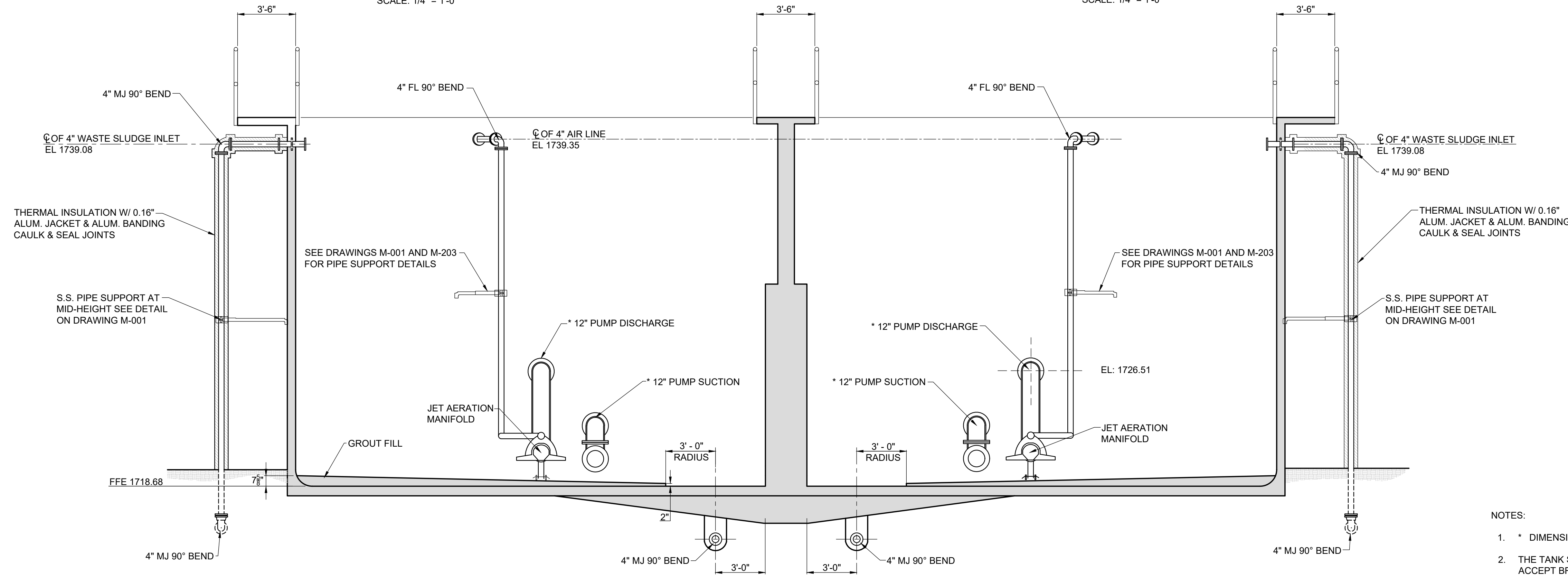
CTI PROJECT: N16003-01 (TN Dept. General Services TDEC) Bledsoe County Correctional Complex, DRAWING: CTI - M-602 AEROBIC DIGESTER SECTIONS (6/5/2019 12:52PM), LAYOUT: AEROBIC DIGESTER SECTION
 DATE OF PRINT: 3/12/2019 1:04 PM



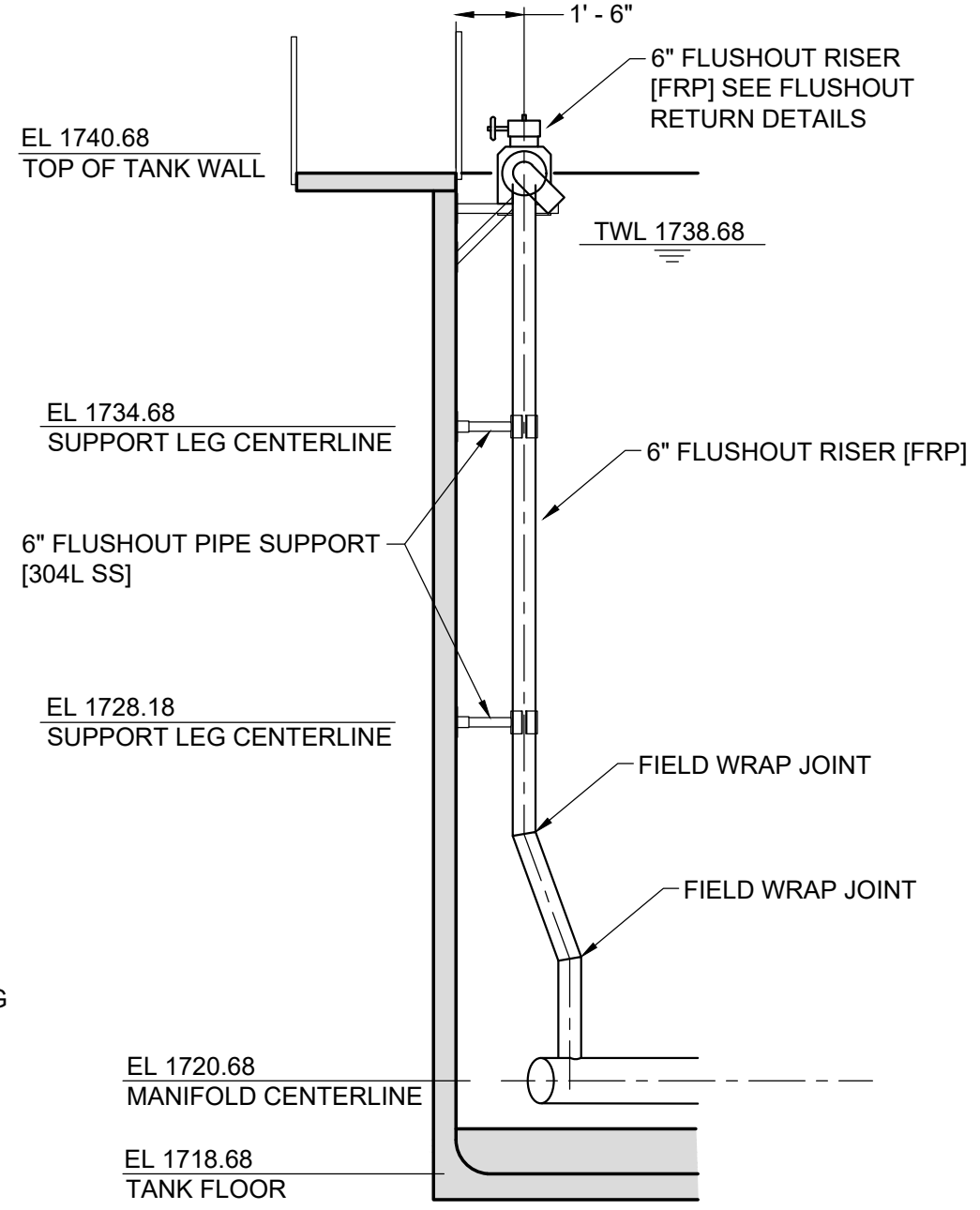
A AEROBIC DIGESTER
 M-601
 SCALE: 1/4" = 1'-0"



B AEROBIC DIGESTER
 M-601
 SCALE: 1/4" = 1'-0"



C AEROBIC DIGESTER
 M-601
 SCALE: 1/4" = 1'-0"



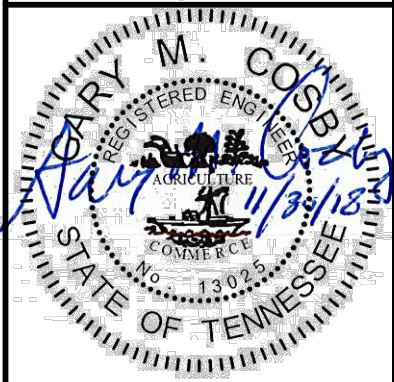
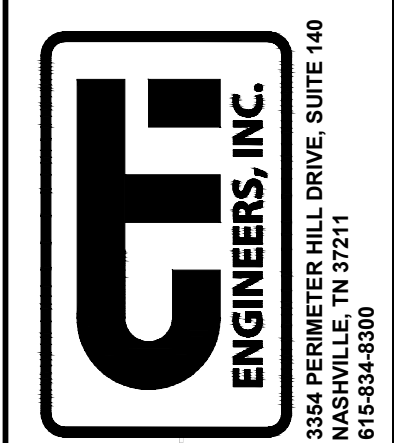
F SECTION
 M-604
 SCALE: 1/4" = 1'-0"

- NOTES:**
- * DIMENSIONS TO BE DETERMINED AFTER EQUIPMENT SELECTION.
 - THE TANK SUPPLIER TO PROVIDE WALL AND FLOOR ELEMENTS NECESSARY TO ACCEPT BRACKETS AND OTHER ATTACHMENTS SHOWN ON THE DRAWINGS. FINAL CONFIGURATIONS AND DETAILS TO BE DETERMINED THROUGH SHOP DRAWING REVIEW PROCESS.
 - SEE DRAWINGS M-001 AND M-203 FOR PIPE SUPPORT DETAILS.

REVISIONS		DATE	BY	APPD
NO.	DESCRIPTIONS			

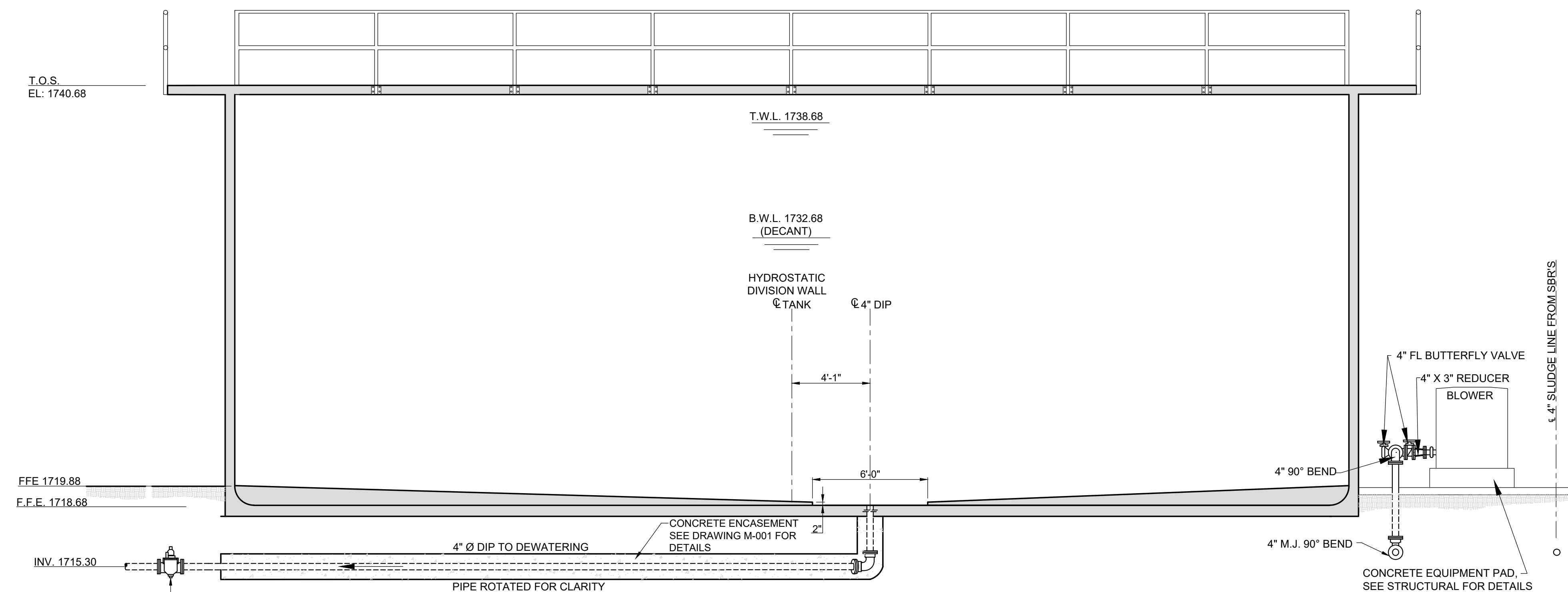
DESIGN	DRAWN	CHECKED	APPROVED
GMC	JRH	NH	GMC

WASTEWATER TREATMENT PLANT EXPANSION
BLED SOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLED SOE COUNTY, TENNESSEE SEC PROJECT 142/013-01-2013-06
AEROBIC DIGESTER SECTIONS



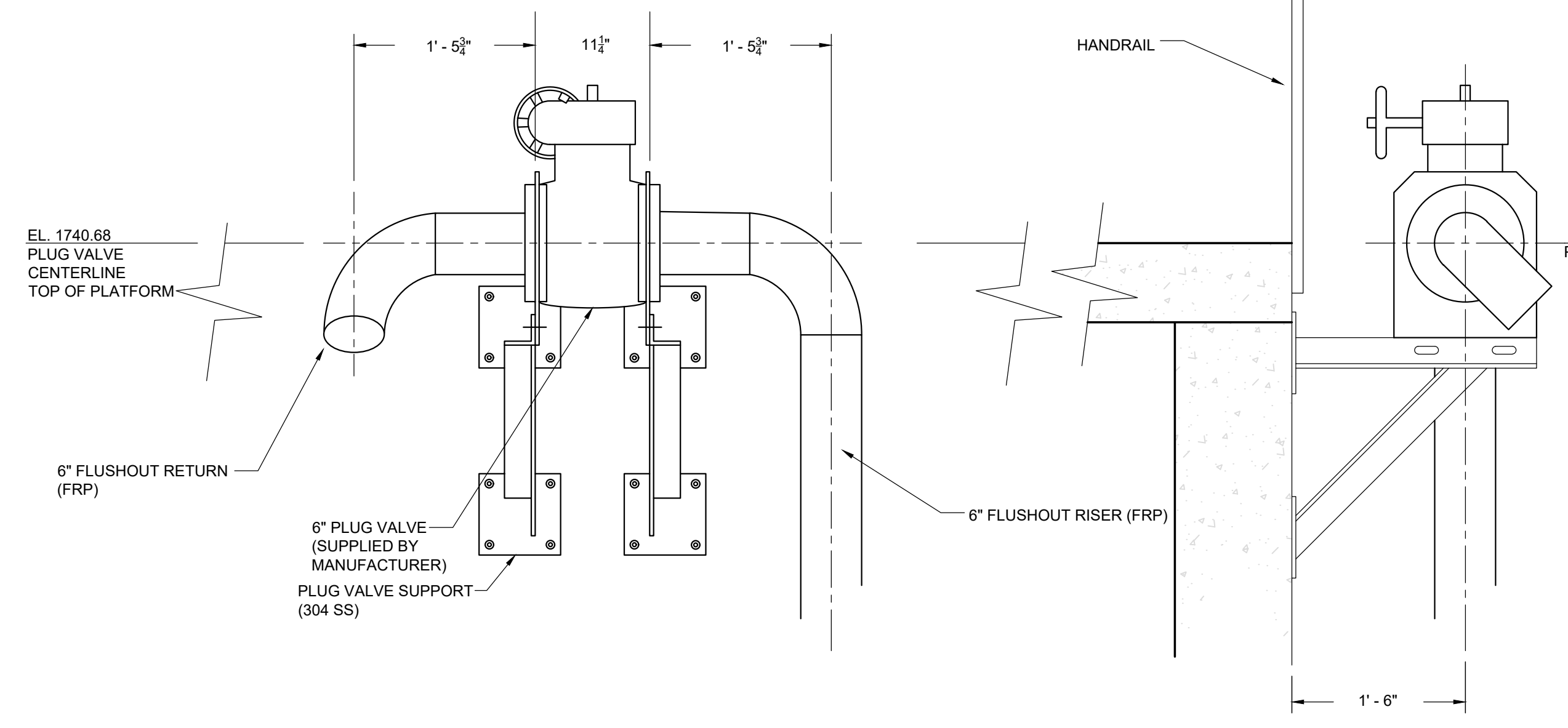
JOB NO.	N16003
ISSUE DATE	November 30, 2018
SCALE	1/4" = 1' - 0"
DRAWING NO.	M-602

DATE OF PRINT: 3/11/2019 1:01 PM
 C:\PROJECT\N16003\01 (TN Dept. General Services - TDEC) Bledsoe County Correctional Complex DRAWING: C.TI - M-603 AEROBIC DIGESTER SECTIONS WITH STAIR DETAILS (5/31/19 12:27:31) (19_9:45AM) LAYOUT - AEROBIC SECTION & STAIR DETAIL

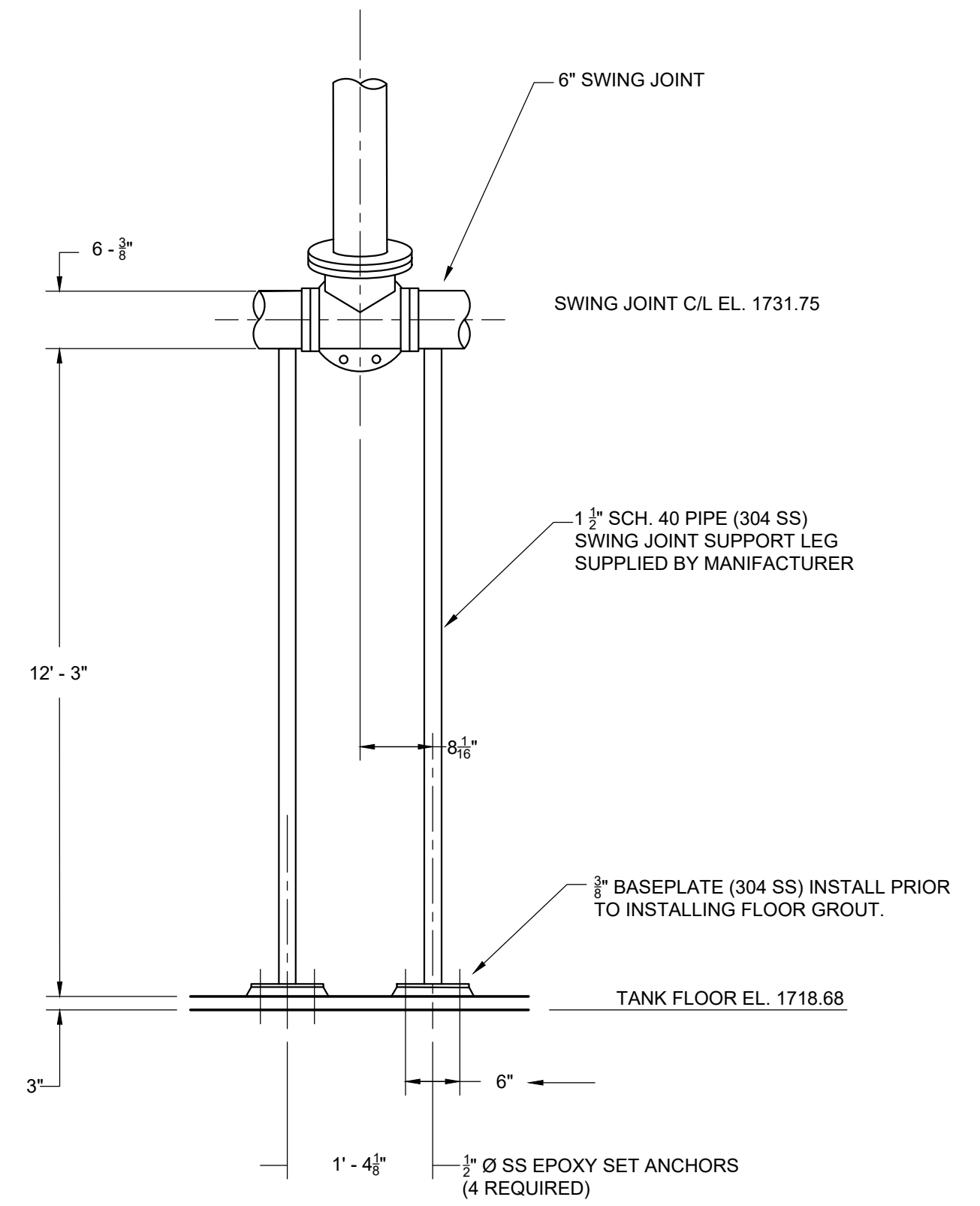


AEROBIC DIGESTER - SECTION
 D M-601
 SCALE: 1/4" = 1'-0"

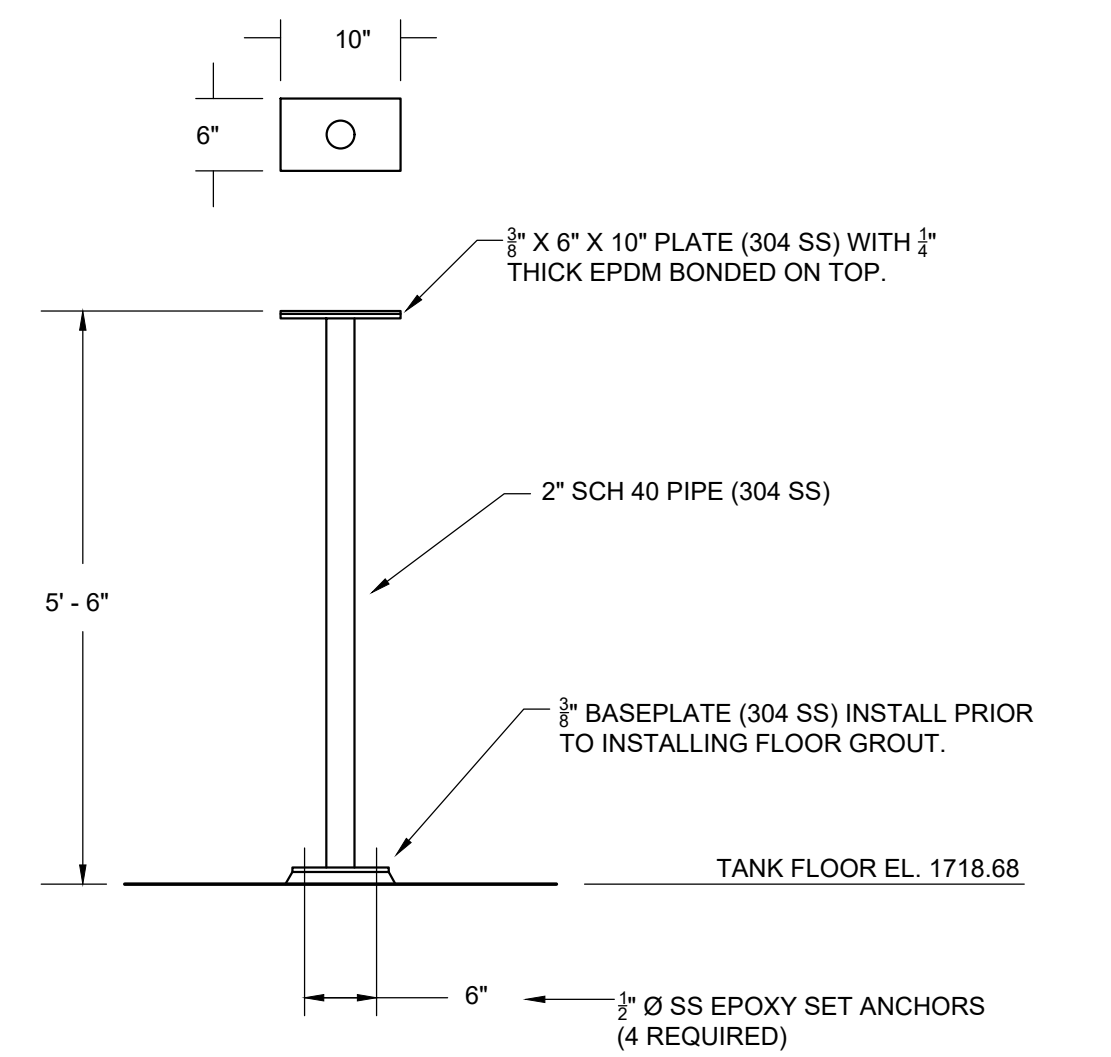
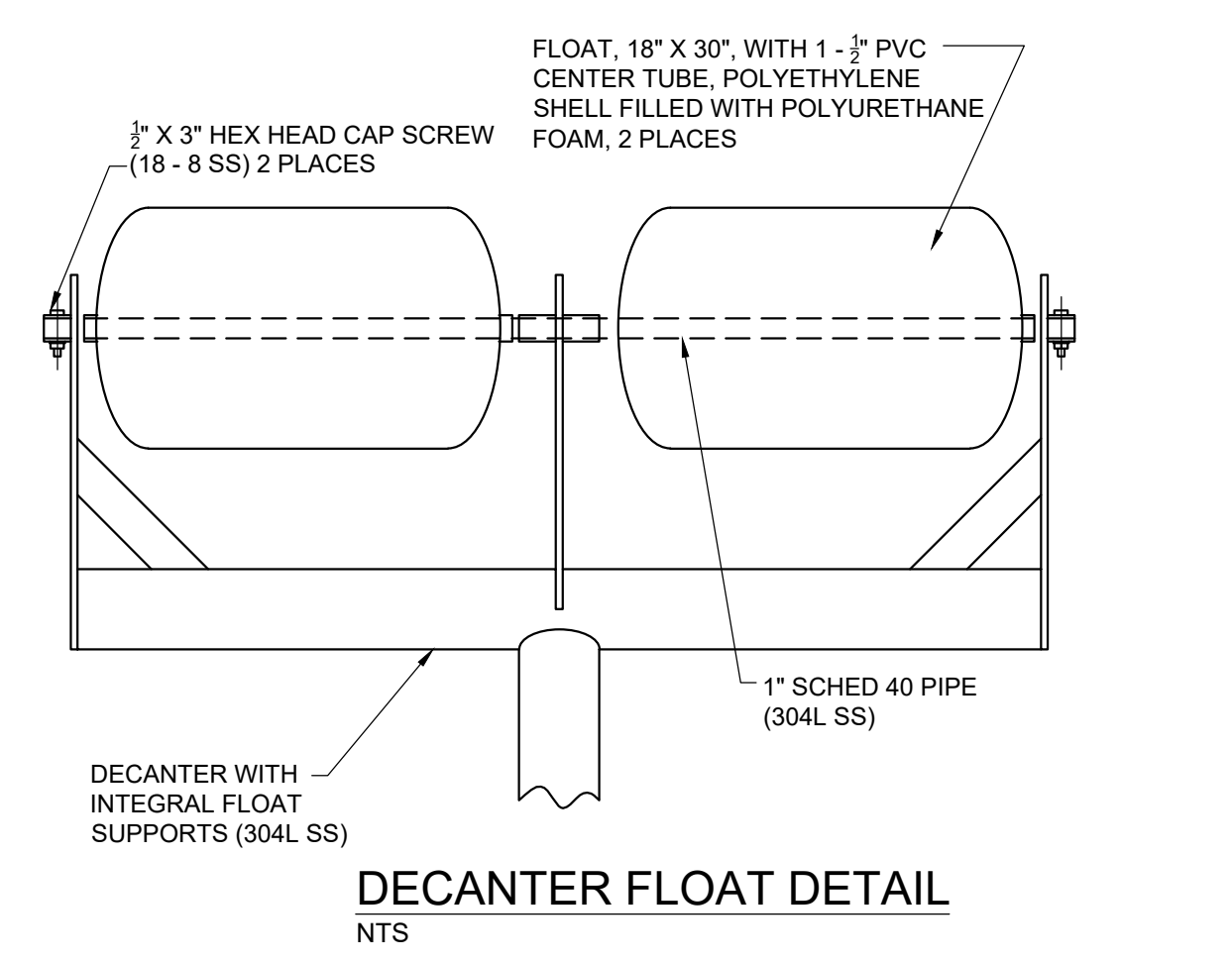
- NOTES:
1. DETAILS SHOWN ON THIS DRAWING WERE PROVIDED BY A JET AERATION EQUIPMENT MANUFACTURER. THEY ARE FOR BIDDING INFORMATION ONLY. ACTUAL CONSTRUCTION DETAILS WILL BE DETERMINED THROUGH THE SHOP DRAWING REVIEW PROCESS WITH THE SELECTED SYSTEM SUPPLIER.
 2. THE TANK SUPPLIER TO PROVIDE WALL AND FLOOR ELEMENTS NECESSARY TO ACCEPT BRACKETS AND OTHER ATTACHMENTS SHOWN ON THE DRAWINGS. FINAL CONFIGURATIONS AND DETAILS TO BE DETERMINED THROUGH SHOP DRAWING REVIEW PROCESS.



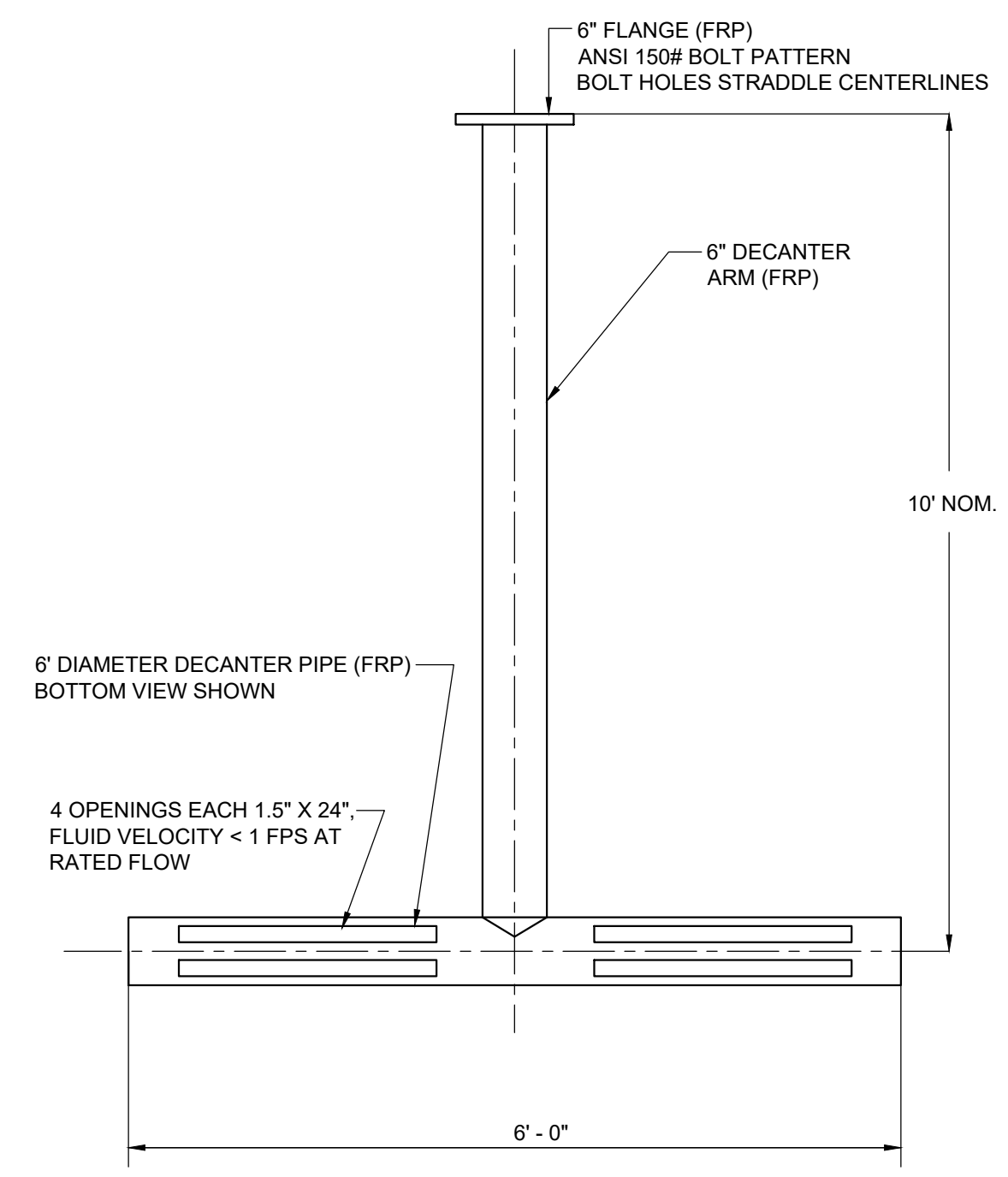
FLUSHOUT RETURN DETAILS
 NTS



SWING JOINT BRACKET DETAIL
 NTS



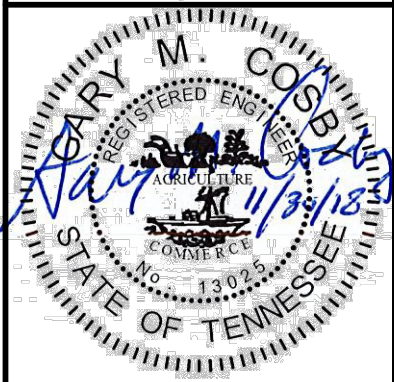
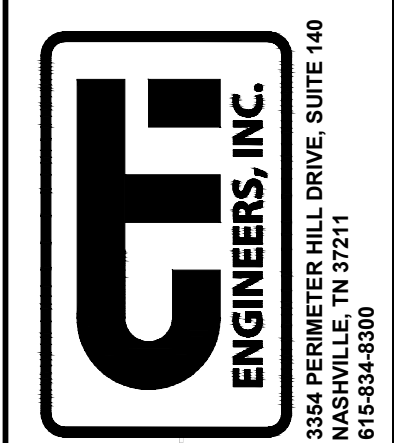
DECANTER REST SUPPORT DETAIL
 NTS



REVISIONS		DATE	BY	APPD
NO.	DESCRIPTIONS			

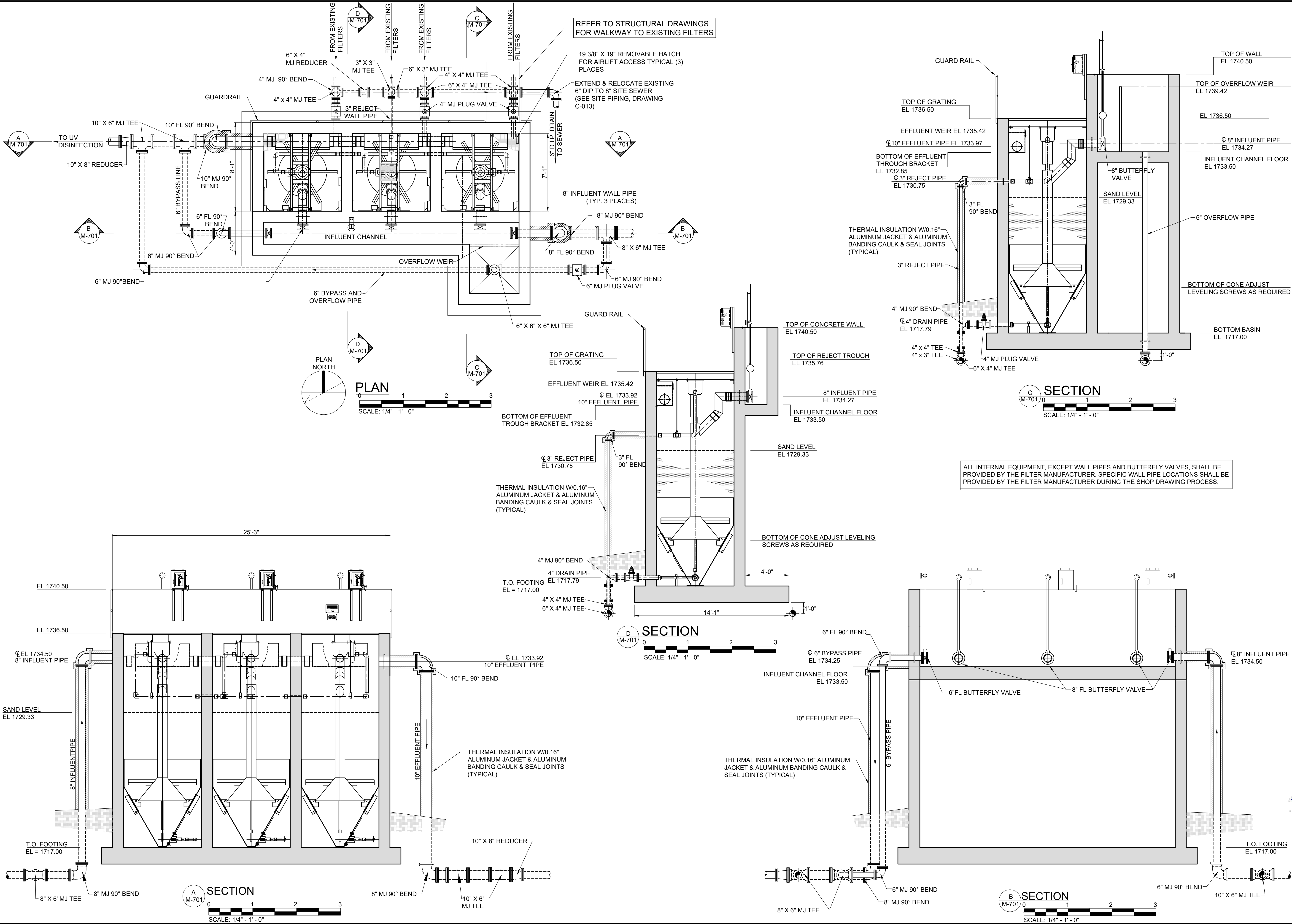
DESIGN	GMC	DRAWN	JRH	CHECKED	NH	APPROVED	GMC

WASTEWATER TREATMENT PLANT EXPANSION
BLED SOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLED SOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06
AEROBIC DIGESTER SECTION AND DETAILS



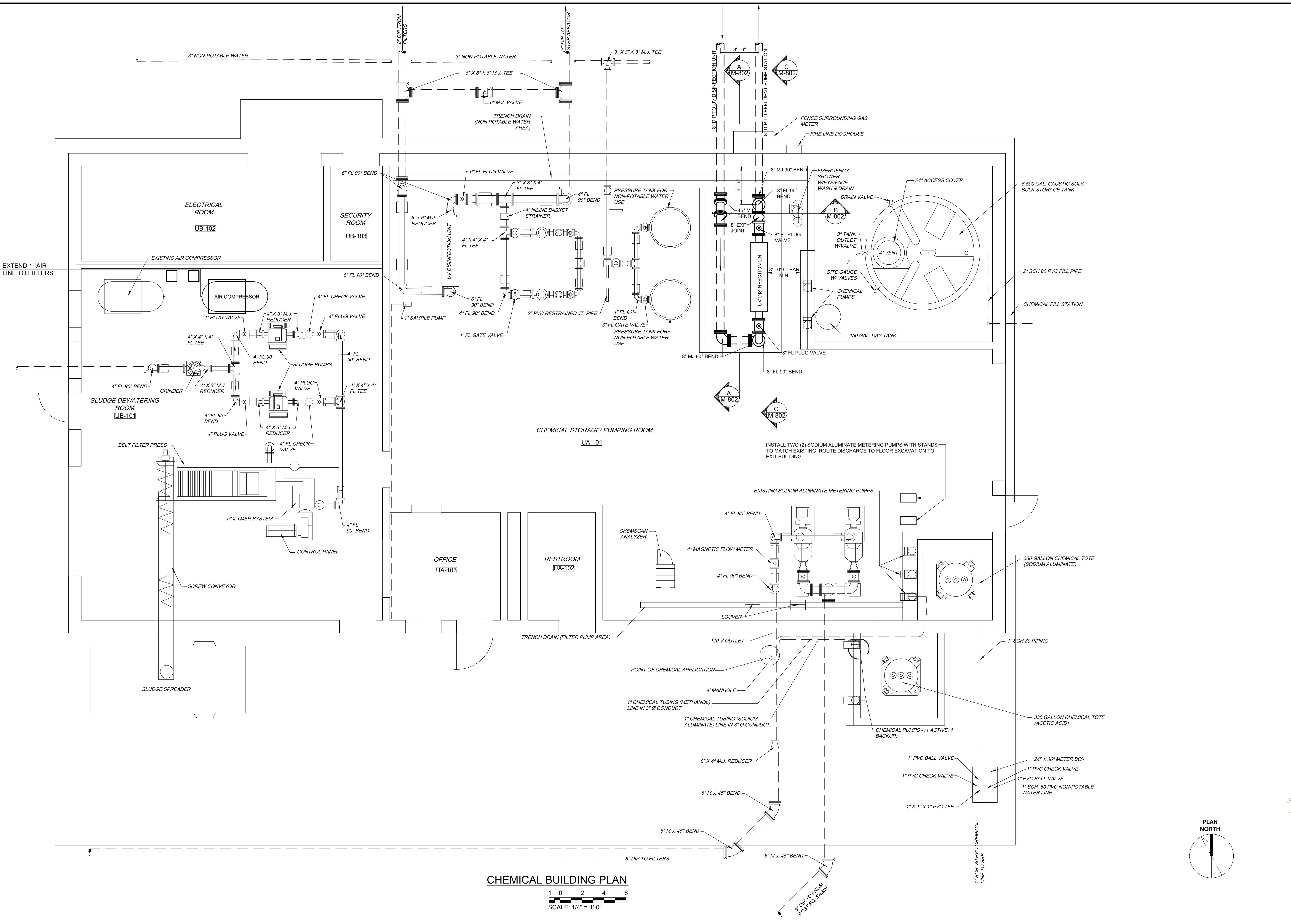
JOB NO. N16003
 ISSUE DATE November 30, 2018
 SCALE AS NOTED
 DRAWING NO. M-603

CTI PROJECT: N16003-01 (TN Dept. General Services TDEC) Bledsoe County Correctional Complex, DRAWING: CTT - M-701 FILTERS PLAN & SECTIONS (686983/294/2619, 7:53AM), LAYOUT: FILTER PLAN & SECTIONS
 DATE OF PRINT: 4/29/2018 9:56 AM



DESIGN		DRAWN		CHECKED		APPROVED	
GMC	JRH	NH	GMC				
NO.	DATE	BY	APPD	REVISIONS			
				DESCRIPTIONS			
WASTEWATER TREATMENT PLANT EXPANSION BLEDSOE COUNTY CORRECTIONAL COMPLEX PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06							
EFFLUENT FILTERS PLAN AND SECTIONS							
JOB NO. N16003 ISSUE DATE November 30, 2018 SCALE 1/4" = 1'-0" DRAWING NO. M-701							

DATE OF PRINT: 3/14/2019 3:39 PM C.T.I. PROJECT: N16003-01 (TN Dept. General Services IDEC) Bledsoe County Correctional Complex DRAWING: C.T.I. - M-801 CHEMICAL BUILDING IMPROVEMENTS FLOOR PLAN (560148/26/13/13/19 8:26AM), LAYOUT: PLAN

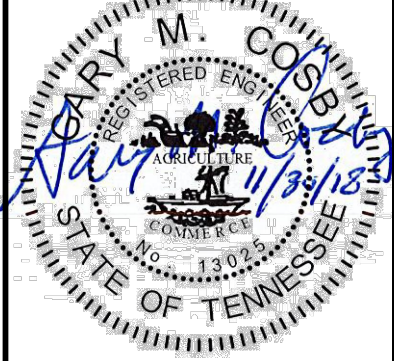
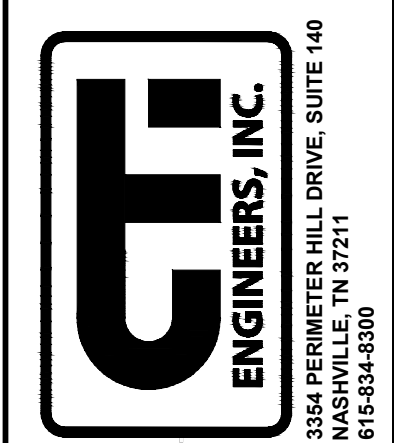


REVISIONS		DESIGN	
NO.	DESCRIPTIONS	DATE	BY

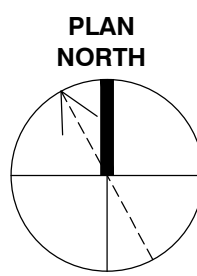
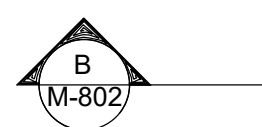
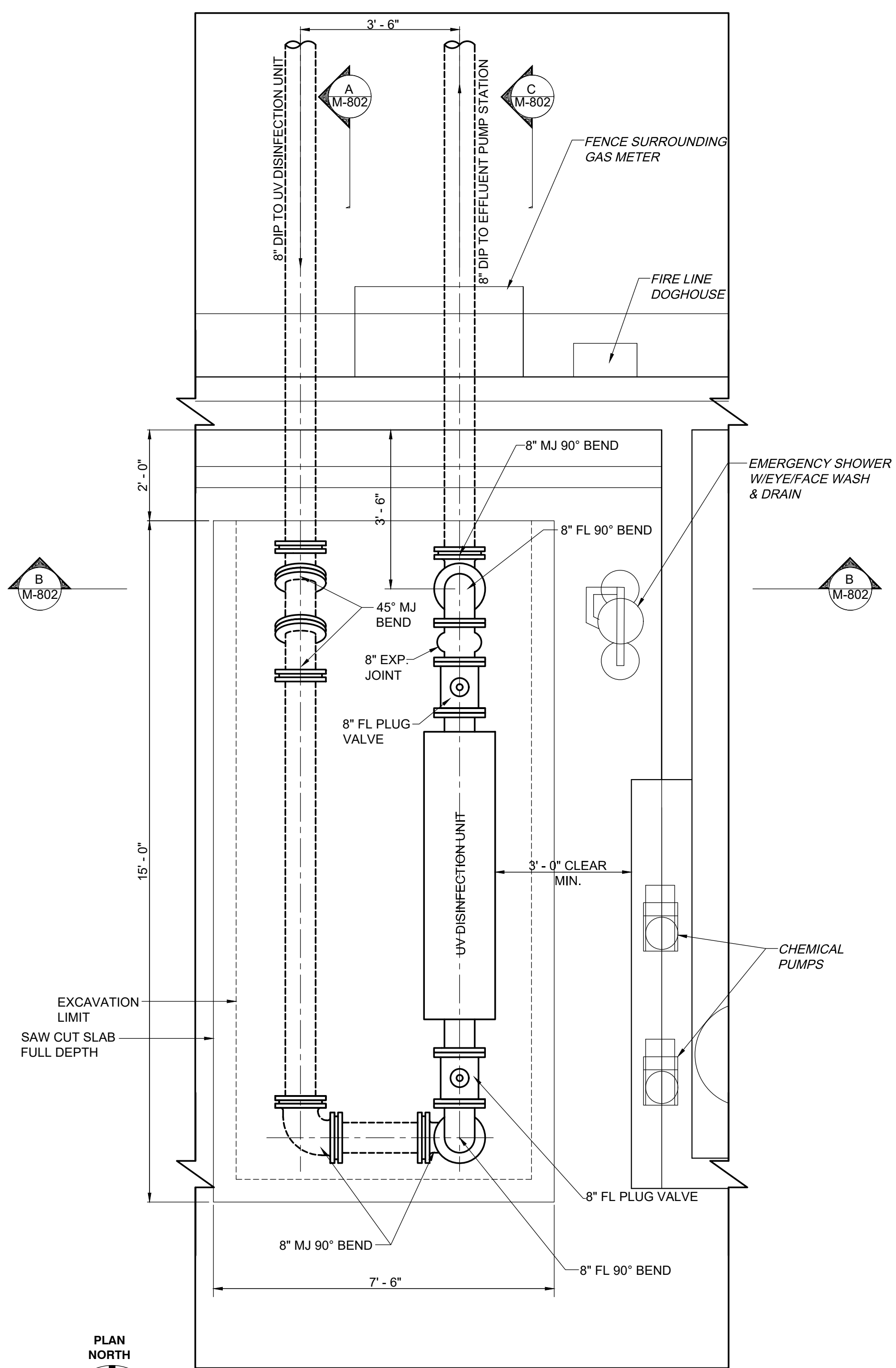
WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

DESIGN: GMC
 DRAWN: JRH
 CHECKED: NH
 APPROVED: GMC

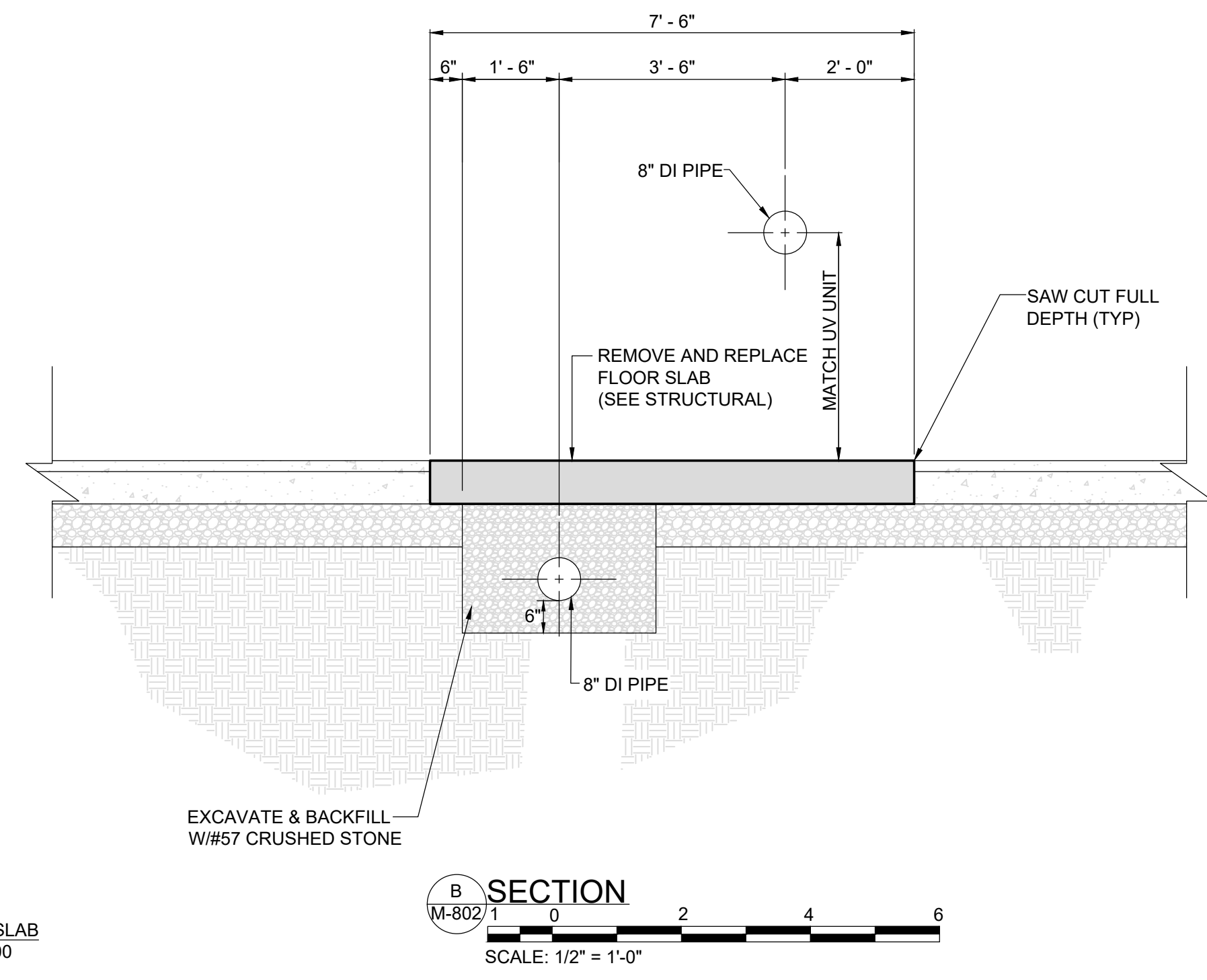
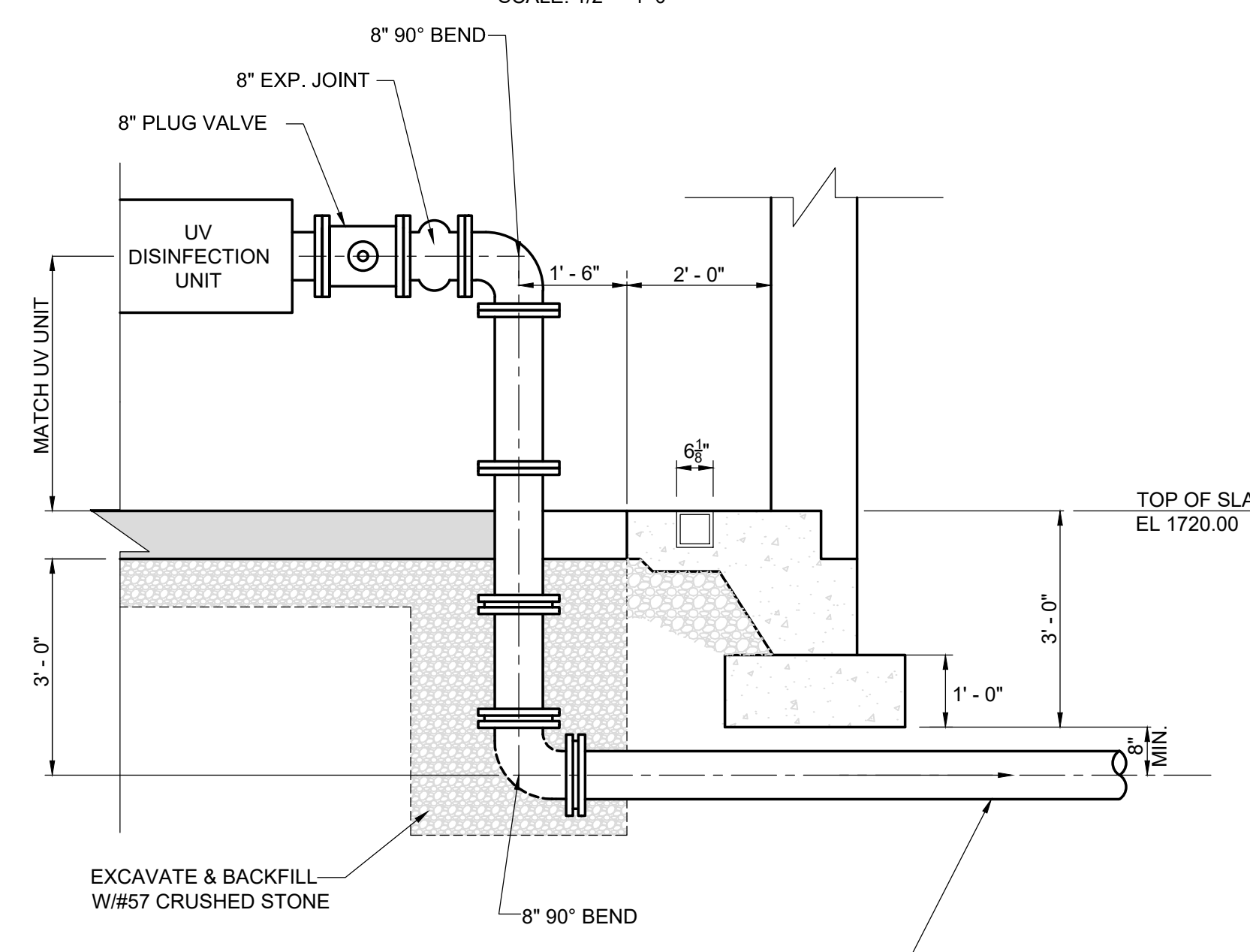
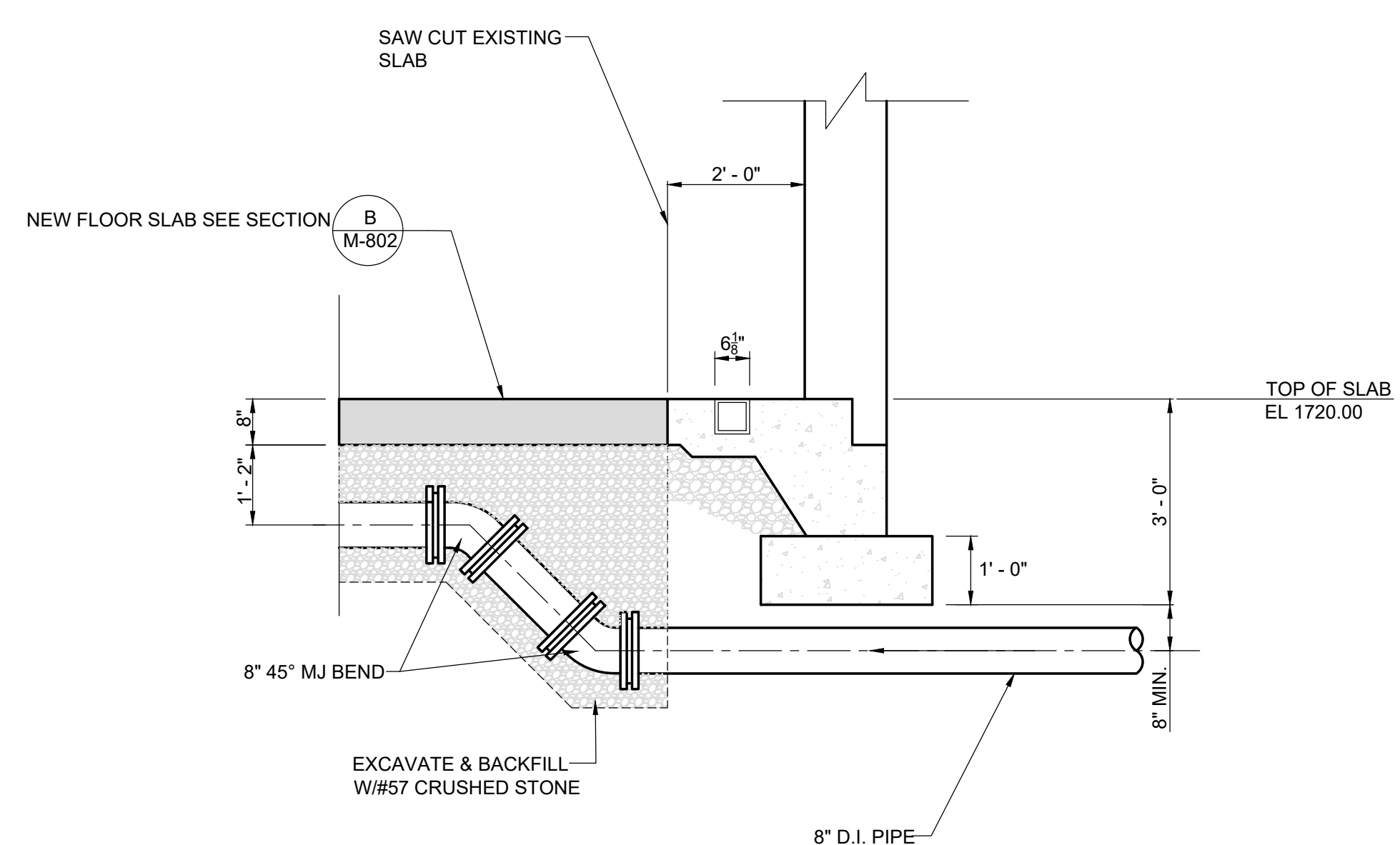
CHEMICAL BUILDING IMPROVEMENTS FLOOR PLAN



JOB NO. N16003
 ISSUE DATE November 30, 2018
 SCALE 1/4" = 1'-0"
 DRAWING NO. M-801



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

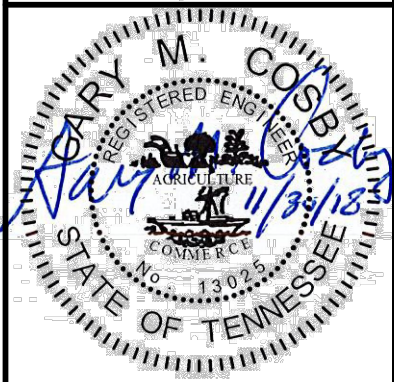
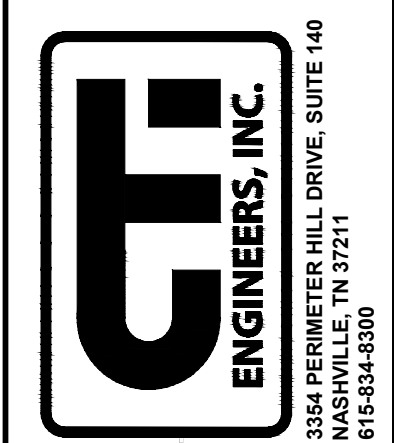


REVISIONS		DATE	BY	APPD
NO.	DESCRIPTIONS			

DESIGN: GMC
DRAWN: JRH
CHECKED: NH
APPROVED: GMC

**WASTEWATER TREATMENT PLANT EXPANSION
BLEDSOE COUNTY CORRECTIONAL COMPLEX**
PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

**CHEMICAL BUILDING
DETAILS AND SECTIONS**



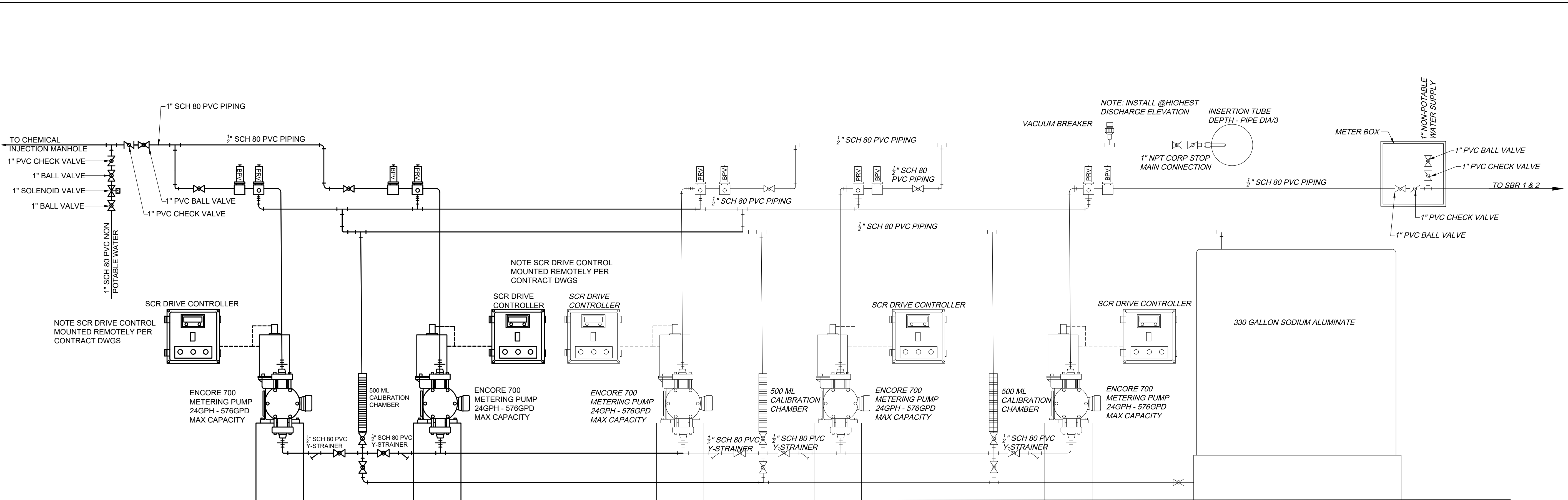
JOB NO.
N16003

ISSUE DATE
November 30, 2018

SCALE
1/2" = 1'-0"

DRAWING NO.
M-802

DATE OF PRINT: 3/14/2019 4:30 PM
CTI PROJECT: N16003-01 (TN Dept. General Services, TDEC) Bledsoe County Correctional Complex, DRAWING: CTI - M-803 - SODIUM ALUMINATE PIPING SCHEMATIC AND DETAIL (5/31/19 3:38PM) LAYOUT: PLAN

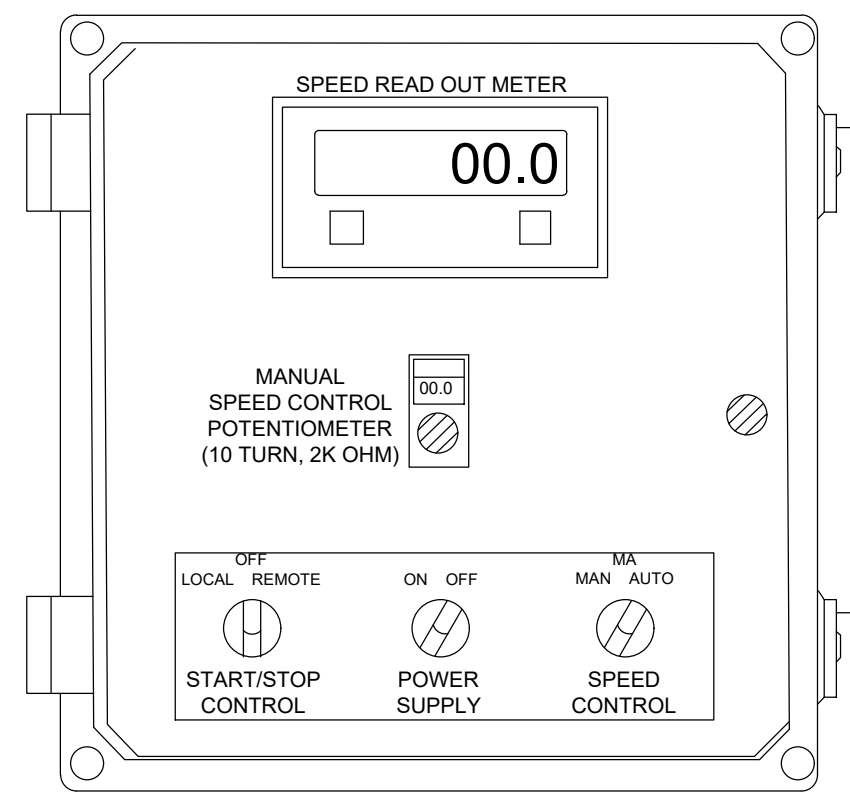


SODIUM ALUMINATE PIPING SCHEMATIC

NTS

NOTE:
CONNECT NEW SODIUM ALUMINATE PUMPS TO EXISTING FLUSH SYSTEM

12" X 12" X 8" FIBERGLASS ENCLOSURE
NEMA 4X SS LINK LOCK LATCH &
CLEAR POLYCARBONATE HINGED COVER



115 VAC SUPPLY
1-20 ma & CONTROL SIGNALS
SOLENOID VALVE

CONTROL PANEL (TYPICAL)
NTS

REVISIONS			
NO.	DATE	BY	APPD.

DESIGN	DRAWN	CHECKED	APPROVED
NH	JRH	NH	NH

WASTEWATER TREATMENT PLANT EXPANSION
BLEDSOE COUNTY CORRECTIONAL COMPLEX
PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

ENGINEERS, INC.
3354 PERIMETER HILL DRIVE, SUITE 140
NASHVILLE, TN 37211
615-834-8500

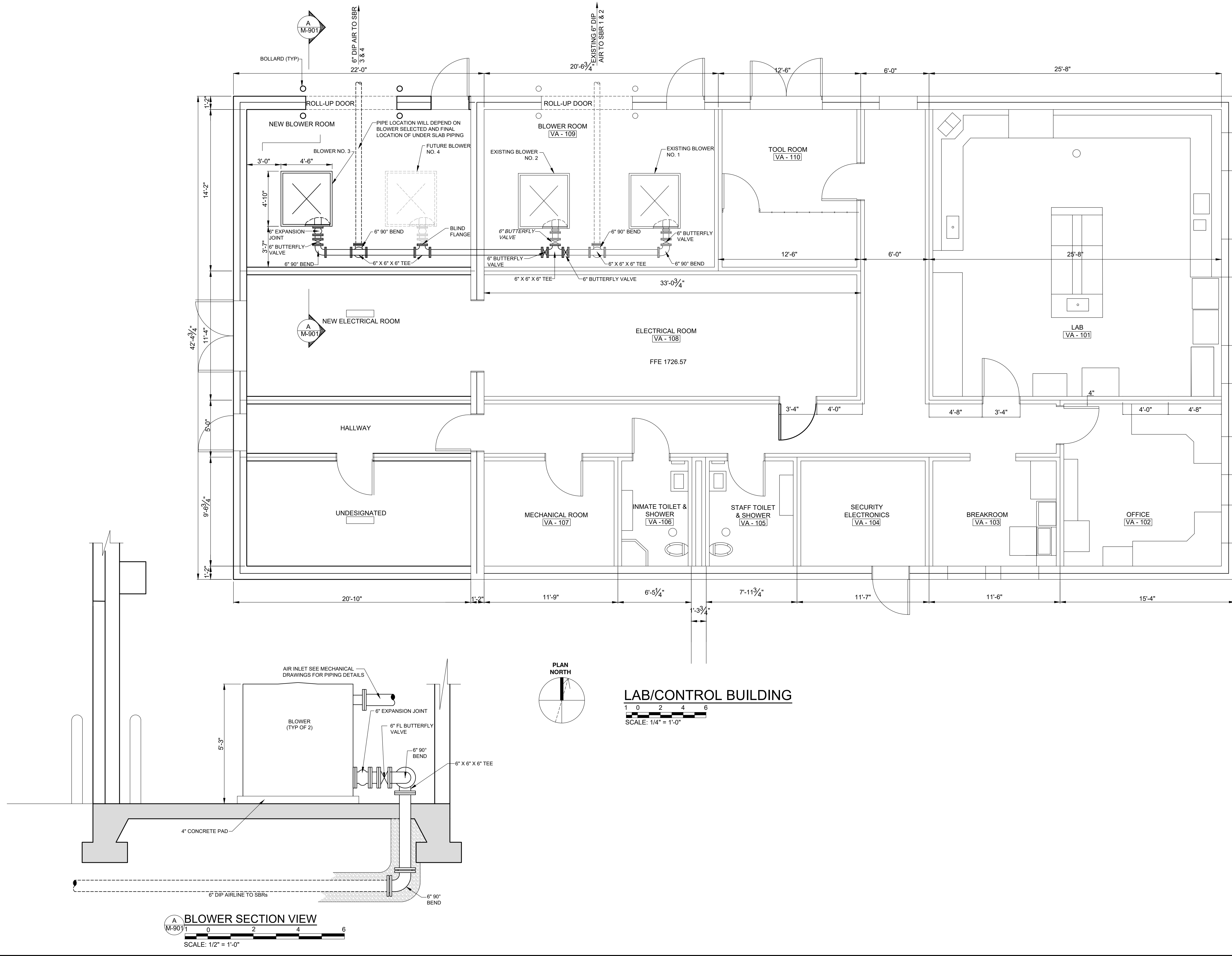
JOB NO.
N16003

ISSUE DATE
November 30, 2018

SCALE
NTS

DRAWING NO.
M-803

DATE OF PRINT: 3/14/2019 3:40 PM
 CTI PROJECT: N16003-01 (TN Dept. General Services TDEC) Bledsoe County Correctional Complex, DRAWING: CTI - M-901 LAB/CONTROL BUILDING ADDITIONS FLOOR PLAN AND SECTION (566757/30/31/19 11:54AM) LAYOUT-PLAN

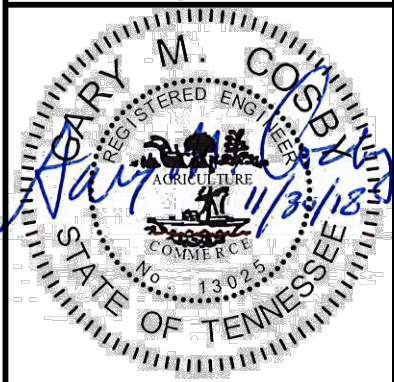
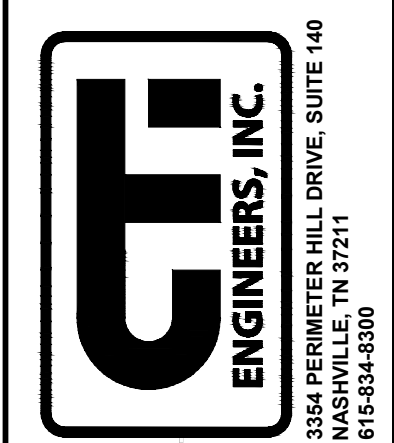


REVISIONS		DATE	BY	APPD
NO.	DESCRIPTIONS			

DESIGN GMC
DRAWN JRH
CHECKED NH
APPROVED GMC

WASTEWATER TREATMENT PLANT EXPANSION
BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

LAB/CONTROL BUILDING ADDITION
PLAN AND SECTION



JOB NO.
 N16003

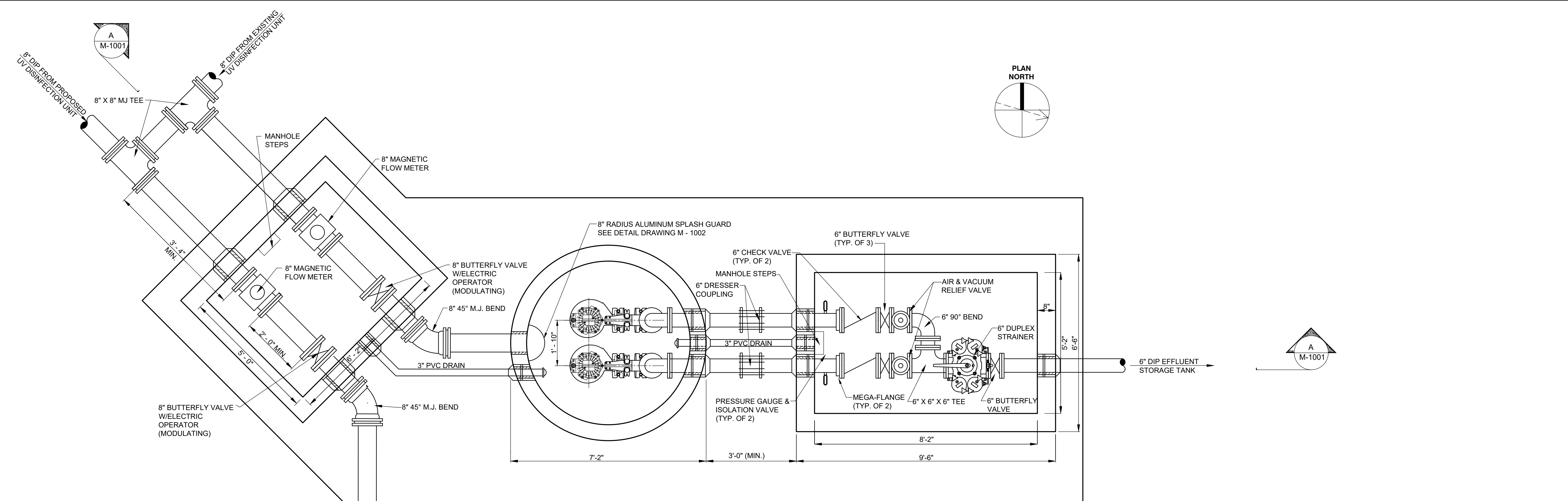
ISSUE DATE
 November 30, 2018

SCALE
 AS NOTED

DRAWING NO.
 M-901

CTI PROJECT: N16003-01 (TN Dept. General Services TDEC) Bledsoe County Correctional Complex DRAWING: CTI - M-1001 EFFLUENT STORAGE PUMP STATION PLAN & SECTION (601734453/11/19 11:59AM) LAYOUT: m-1001

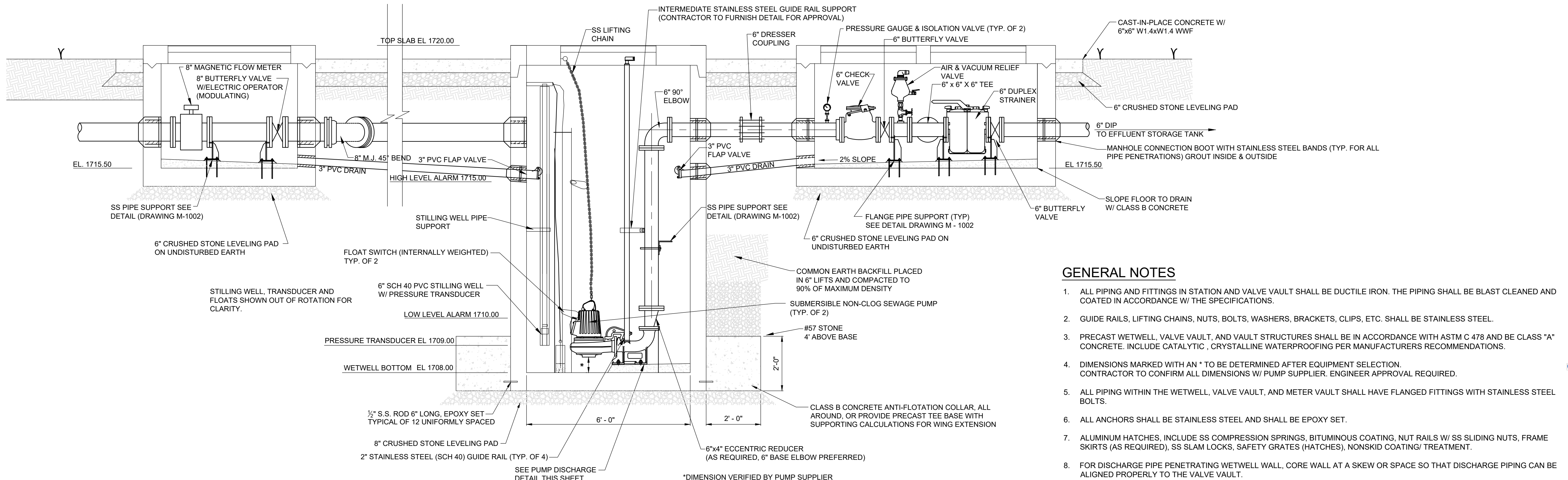
DATE OF PRINT: 3/12/2019 1:09 PM



METER VAULT

EFFLUENT PUMP STATION PLAN

VALVE AND STRAINER VAULT



SECTION

GENERAL NOTES

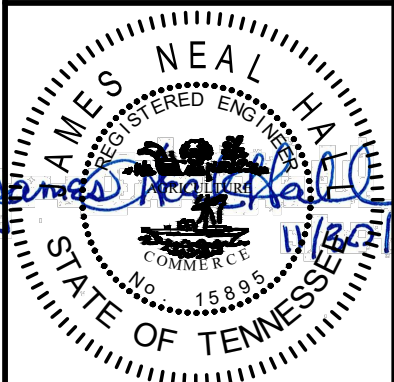
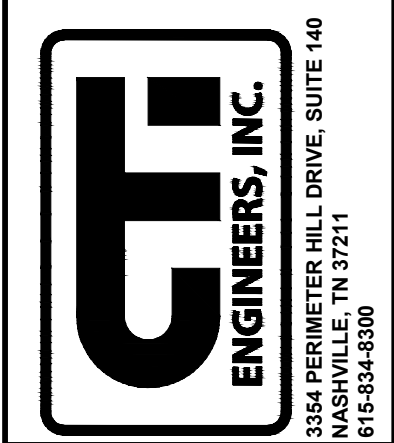
- ALL PIPING AND FITTINGS IN STATION AND VALVE VAULT SHALL BE DUCTILE IRON. THE PIPING SHALL BE BLAST CLEANED AND COATED IN ACCORDANCE W/ THE SPECIFICATIONS.
- GUIDE RAILS, LIFTING CHAINS, NUTS, BOLTS, WASHERS, BRACKETS, CLIPS, ETC. SHALL BE STAINLESS STEEL.
- PRECAST WETWELL, VALVE VAULT, AND VAULT STRUCTURES SHALL BE IN ACCORDANCE WITH ASTM C 478 AND BE CLASS "A" CONCRETE. INCLUDE CATALYTIC, CRYSTALLINE WATERPROOFING PER MANUFACTURERS RECOMMENDATIONS.
- DIMENSIONS MARKED WITH AN * TO BE DETERMINED AFTER EQUIPMENT SELECTION. CONTRACTOR TO CONFIRM ALL DIMENSIONS W/ PUMP SUPPLIER. ENGINEER APPROVAL REQUIRED.
- ALL PIPING WITHIN THE WETWELL, VALVE VAULT, AND METER VAULT SHALL HAVE FLANGED FITTINGS WITH STAINLESS STEEL BOLTS.
- ALL ANCHORS SHALL BE STAINLESS STEEL AND SHALL BE EPOXY SET.
- ALUMINUM HATCHES, INCLUDE SS COMPRESSION SPRINGS, BITUMINOUS COATING, NUT RAILS W/ SS SLIDING NUTS, FRAME SKIRTS (AS REQUIRED), SS SLAM LOCKS, SAFETY GRATES (HATCHES), NONSKID COATING/ TREATMENT.
- FOR DISCHARGE PIPE PENETRATING WETWELL WALL, CORE WALL AT A SKEW OR SPACE SO THAT DISCHARGE PIPING CAN BE ALIGNED PROPERLY TO THE VALVE VAULT.
- ALL STAINLESS STEEL TO BE 304 EXCEPT AS NOTED.
- CHECK VALVES SHALL BE AIR CUSHIONED SWING CHECK VALVES.

REVISIONS		DATE	BY	APPD
NO.	DESCRIPTIONS			

DESIGN: NH
 DRAWN: JRH
 CHECKED: NH
 APPROVED: NH

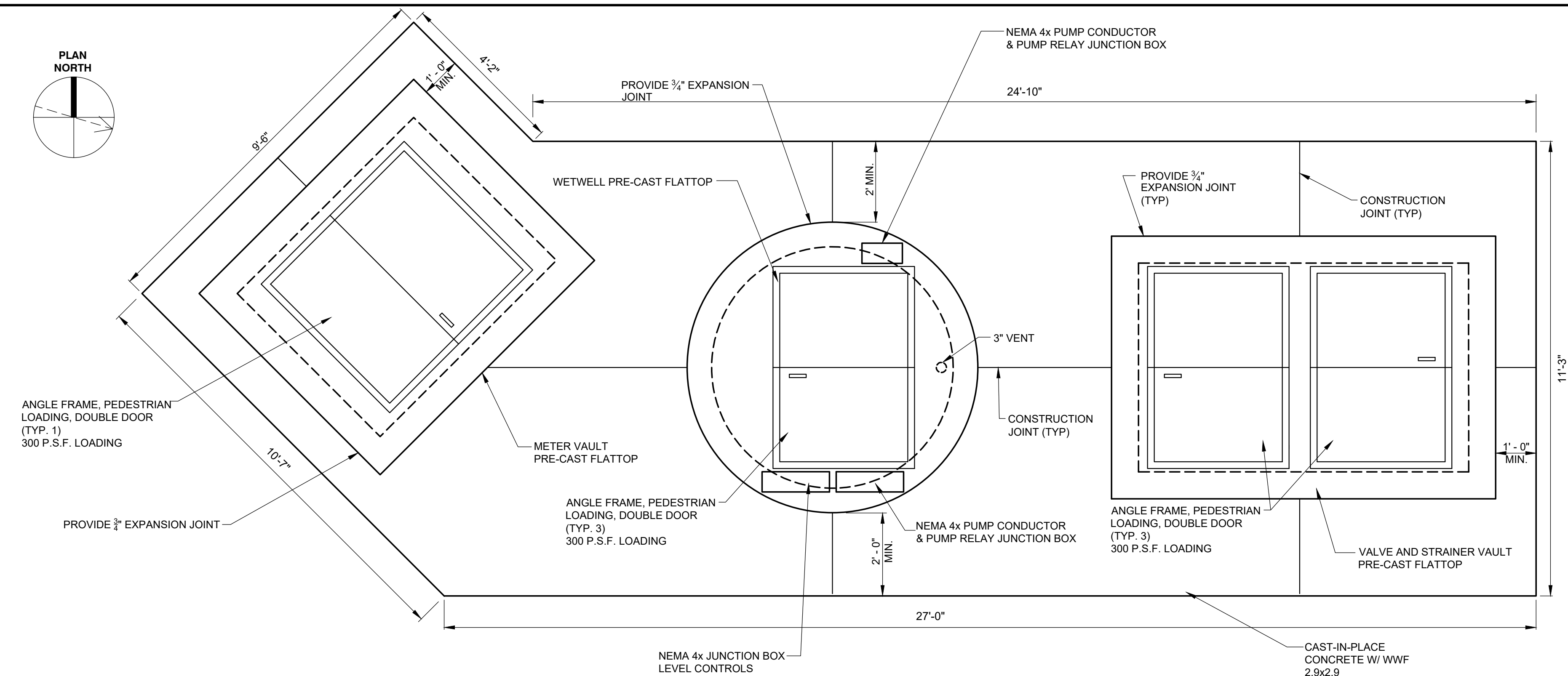
WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

METER VAULT AND EFFLUENT PUMP STATION
 PLAN AND SECTION

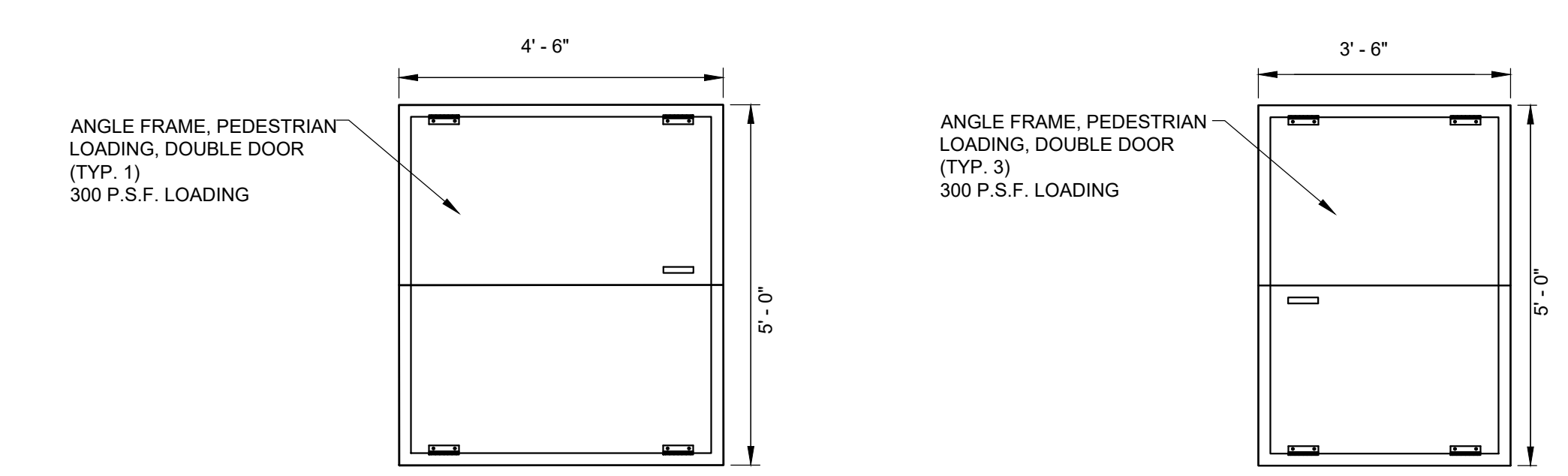


JOB NO.
 N16003
 ISSUE DATE
 November 30, 2018
 SCALE
 1/2" = 1' - 0"
 DRAWING NO.
 M-1001

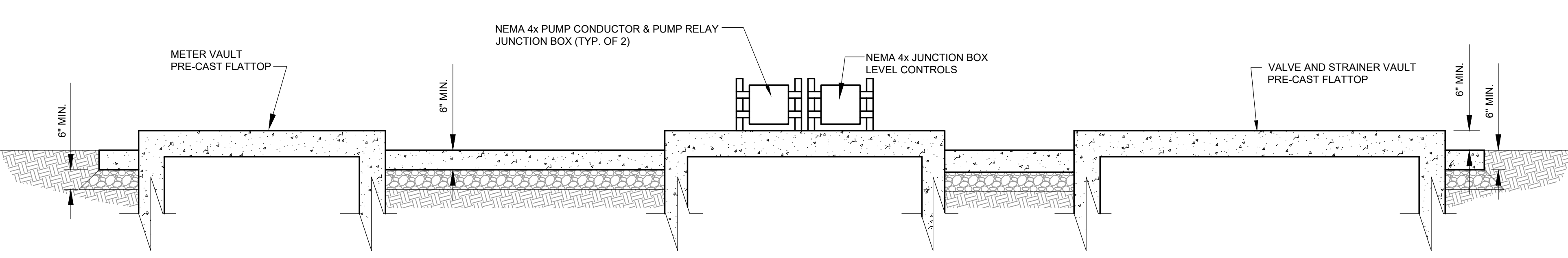
CTI PROJECT: N16003-01 (TN Dept. General Services, TDEC) Bledsoe County Correctional Complex, DRAWING: CTI - M-1002 EFFLUENT PUMP STATION DETAILS (566390418/3/16/19 11:12AM), LAYOUT: PROPOSED INFLUENT PS SECTION
 DATE OF PRINT: 3/11/2019 12:00 PM



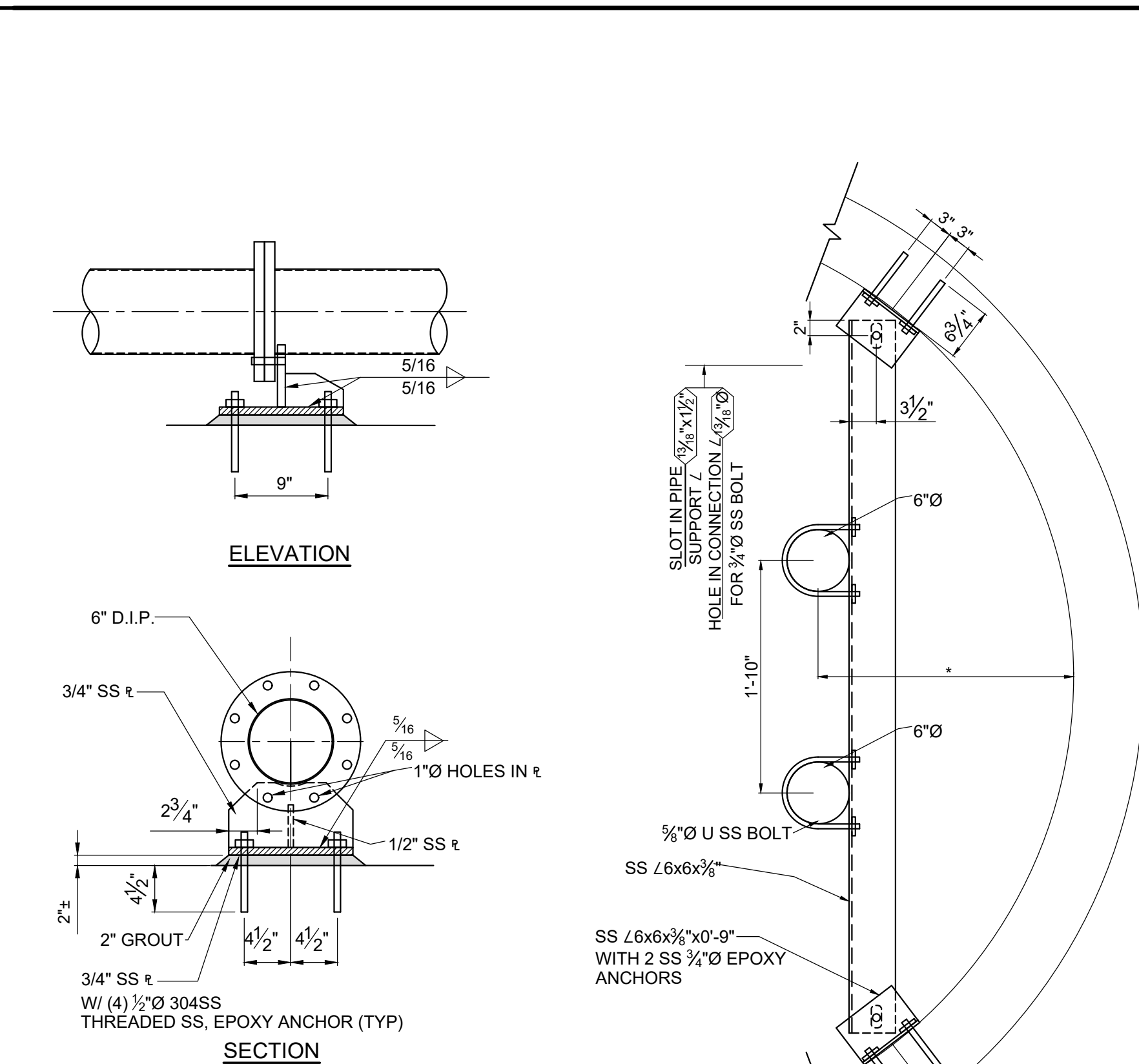
WETWELL AND VAULT TOP PLAN
NTS



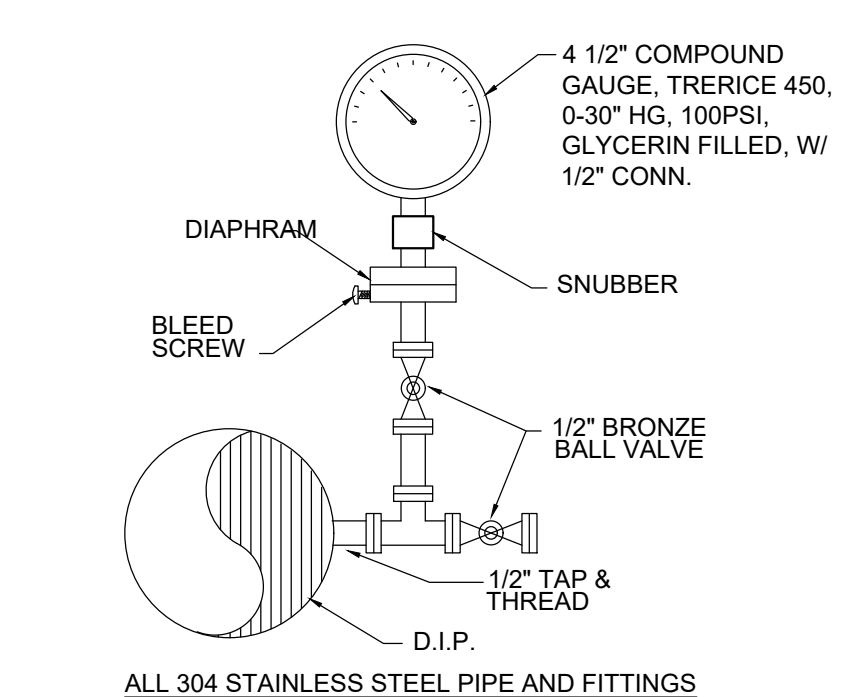
ANGLE FRAME, PEDESTRIAN LOADING, DOUBLE DOOR DETAILS (300 P.S.F. LOADING)
NTS



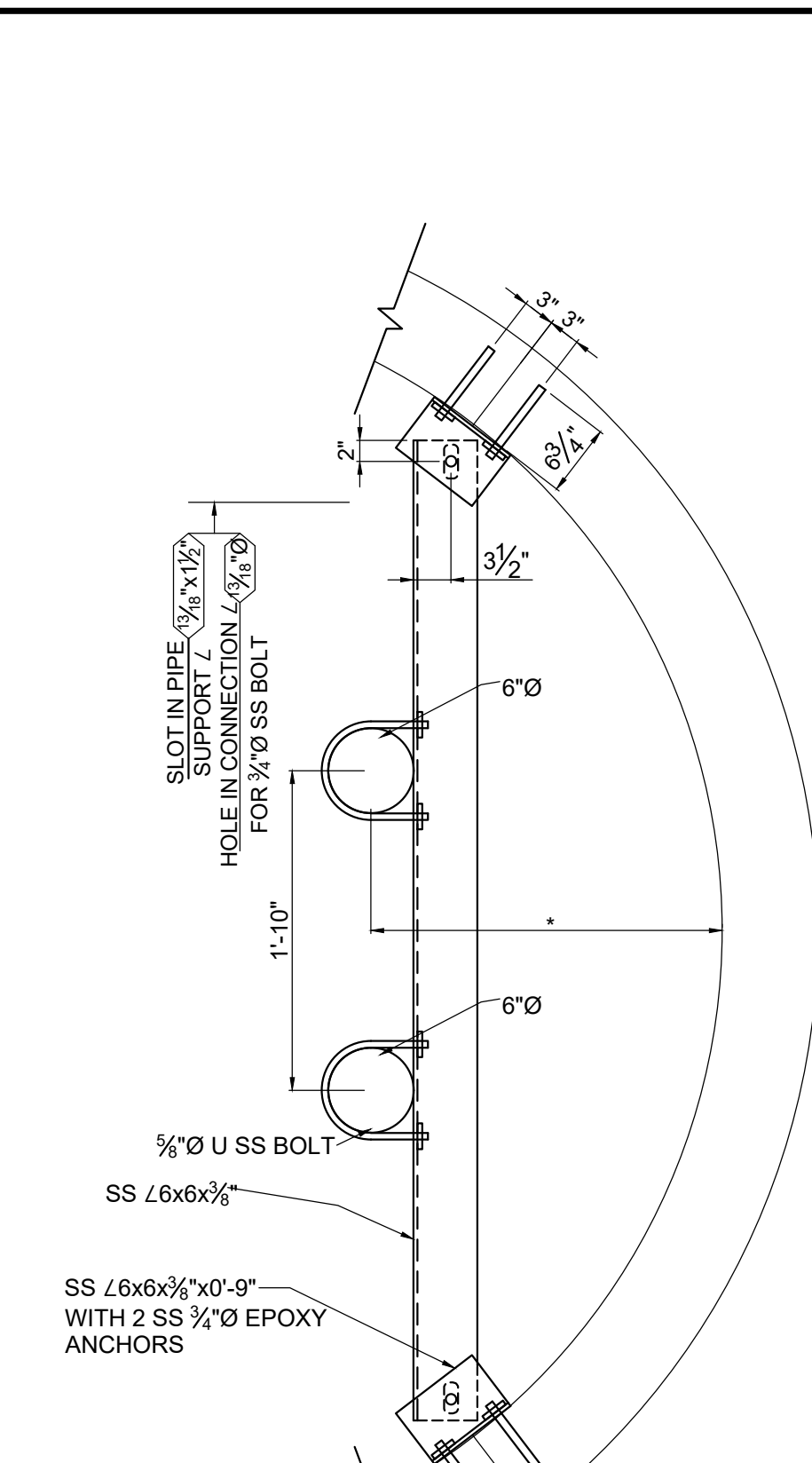
WETWELL AND VAULT SECTION
NTS



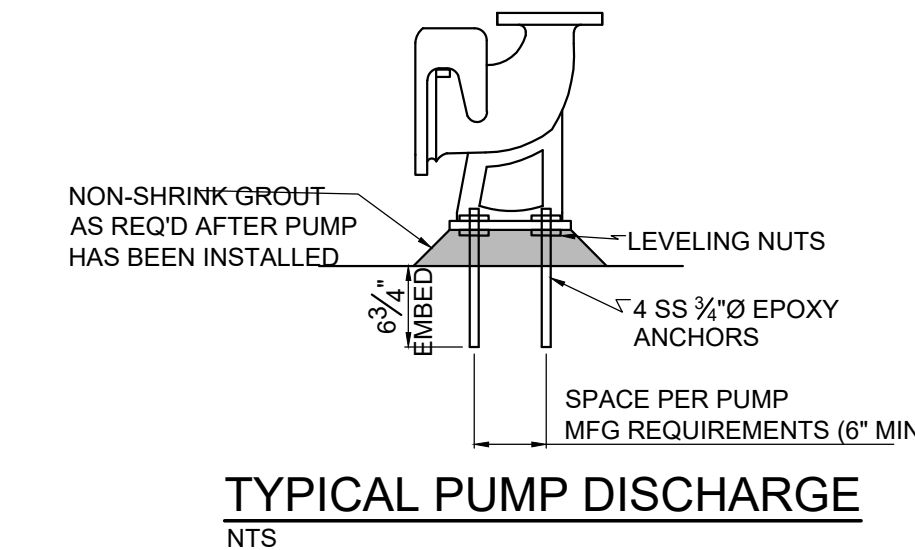
FLANGE PIPE SUPPORT DETAIL
NTS



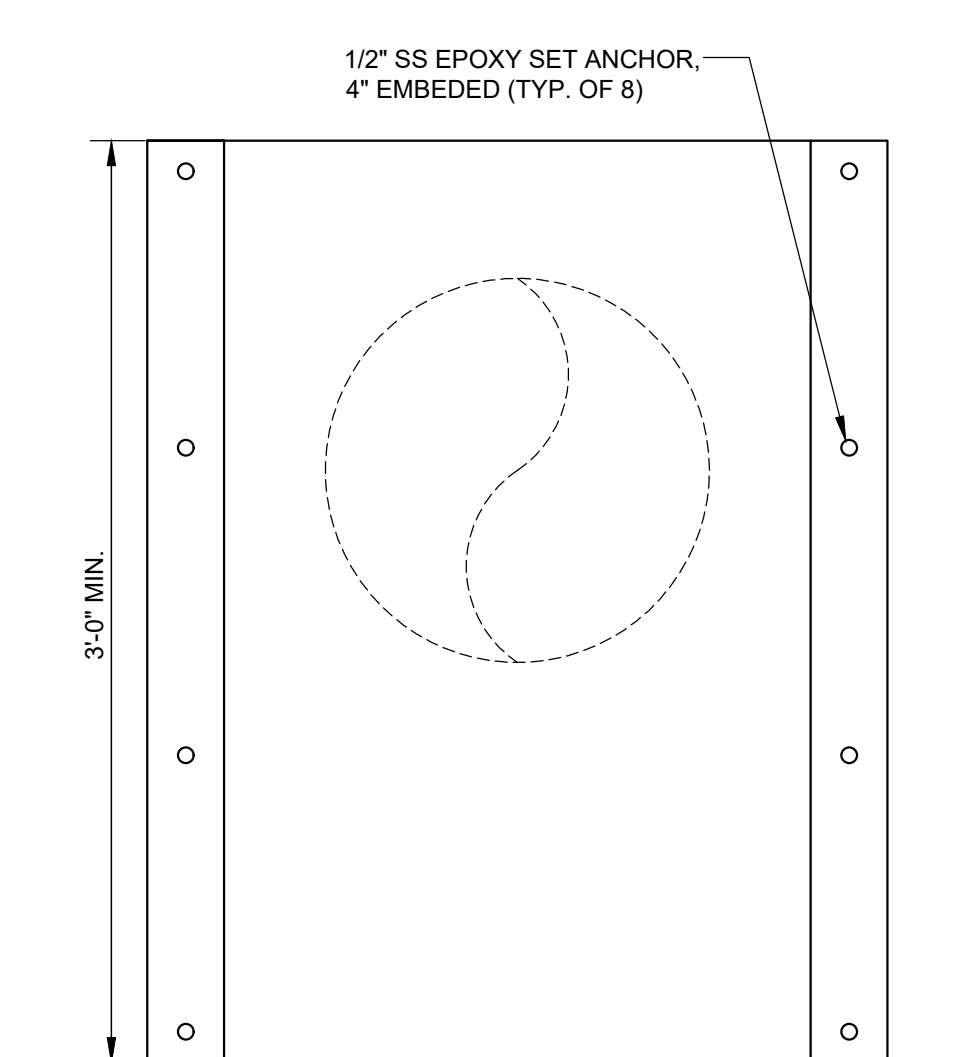
PRESSURE GAUGE DETAIL (TYP.)
NTS



PIPE SUPPORT DETAIL
NTS



TYPICAL PUMP DISCHARGE
NTS



8" RADIUS ALUMINUM SPLASH GUARD
NTS

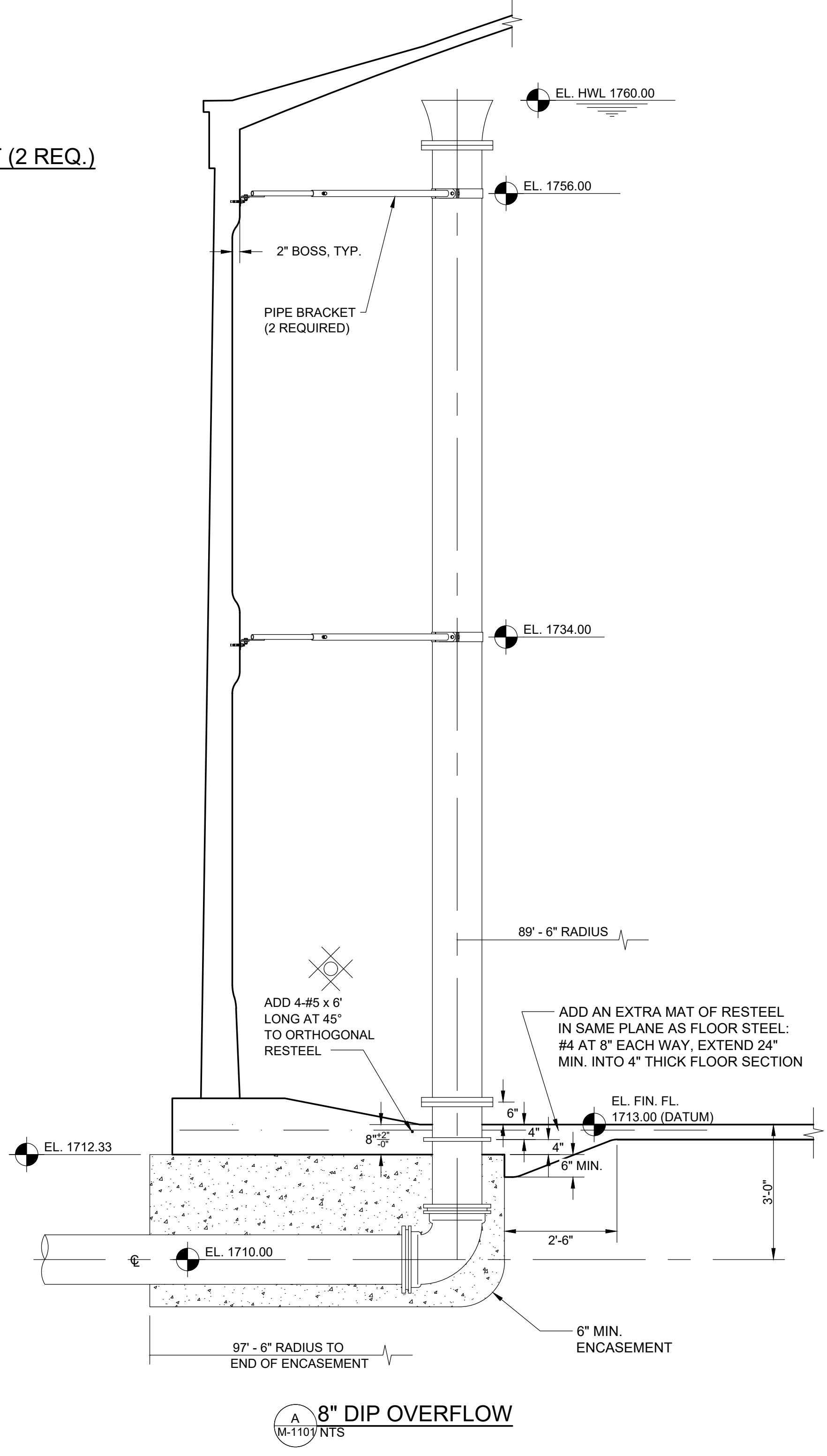
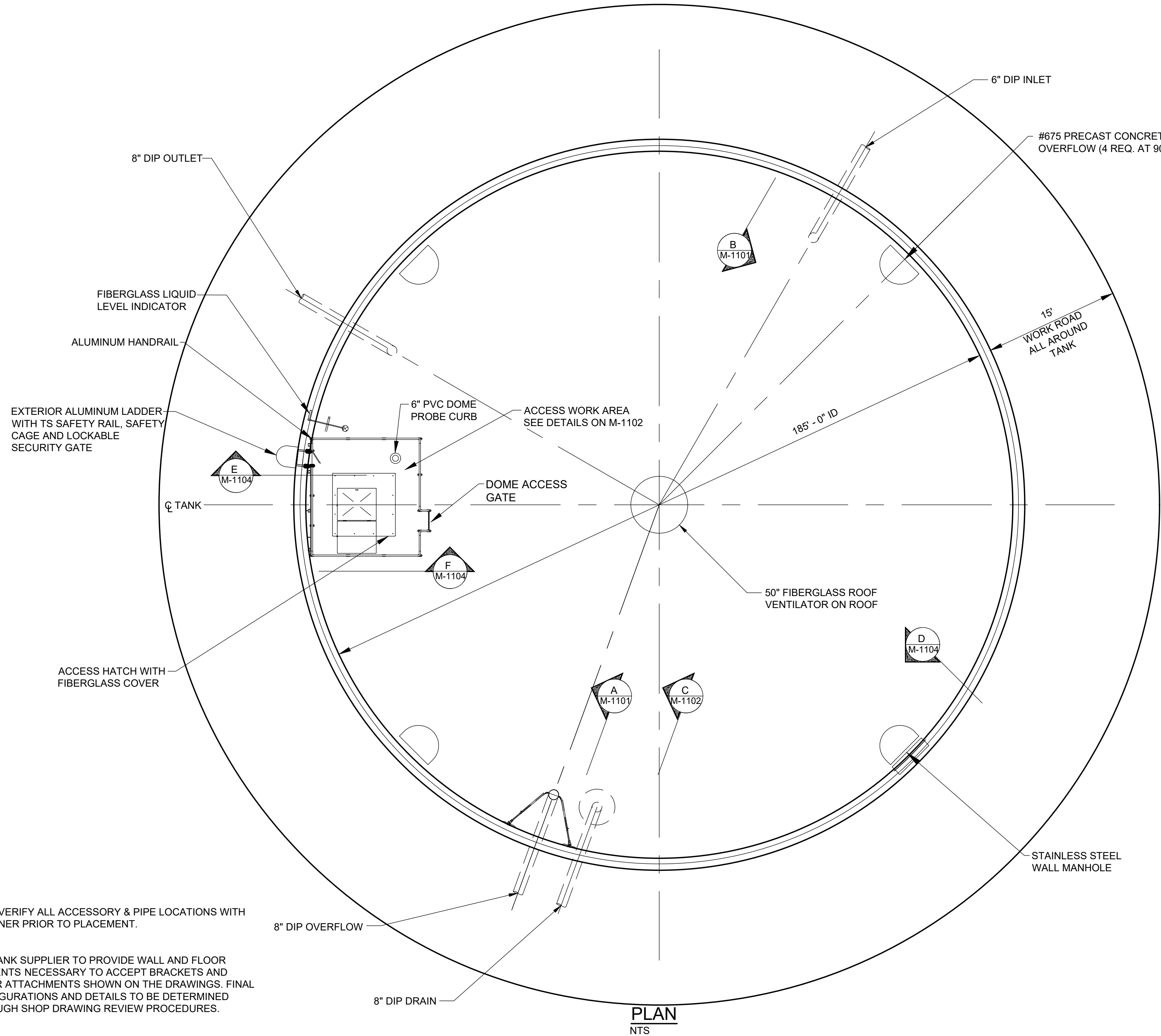
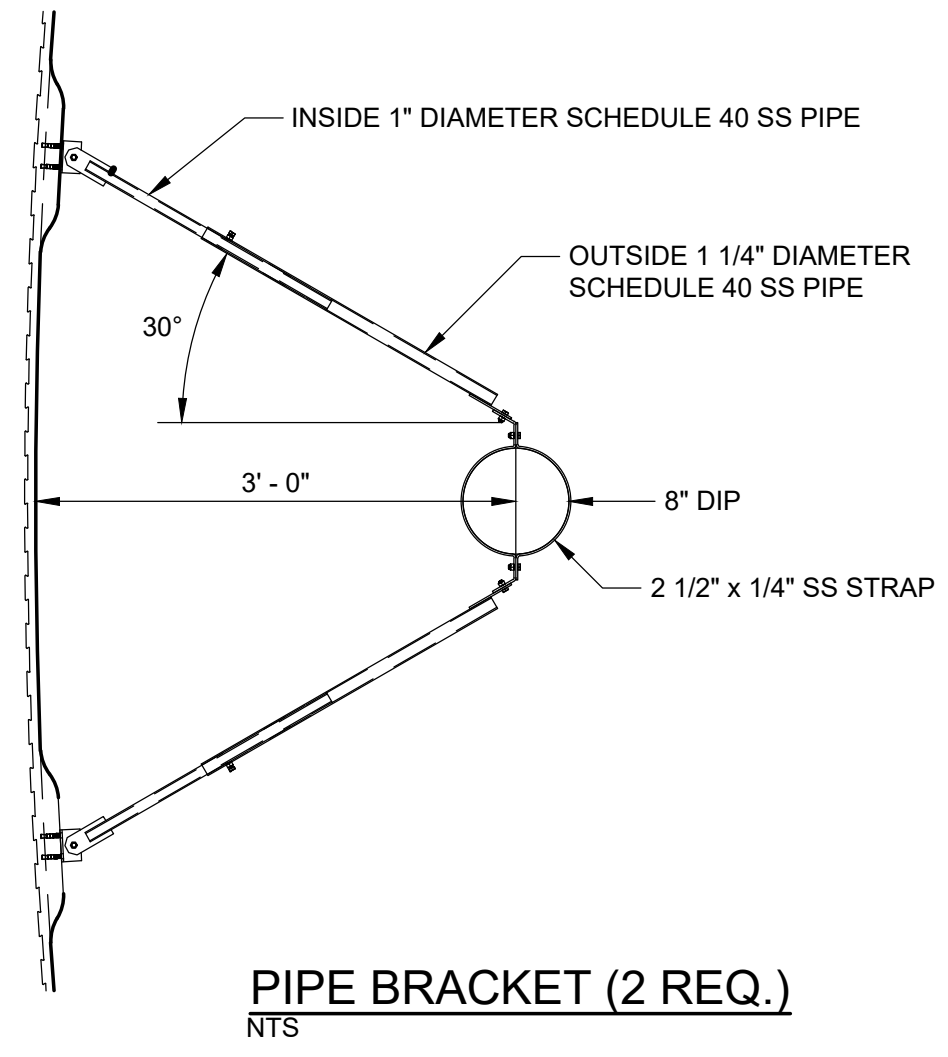
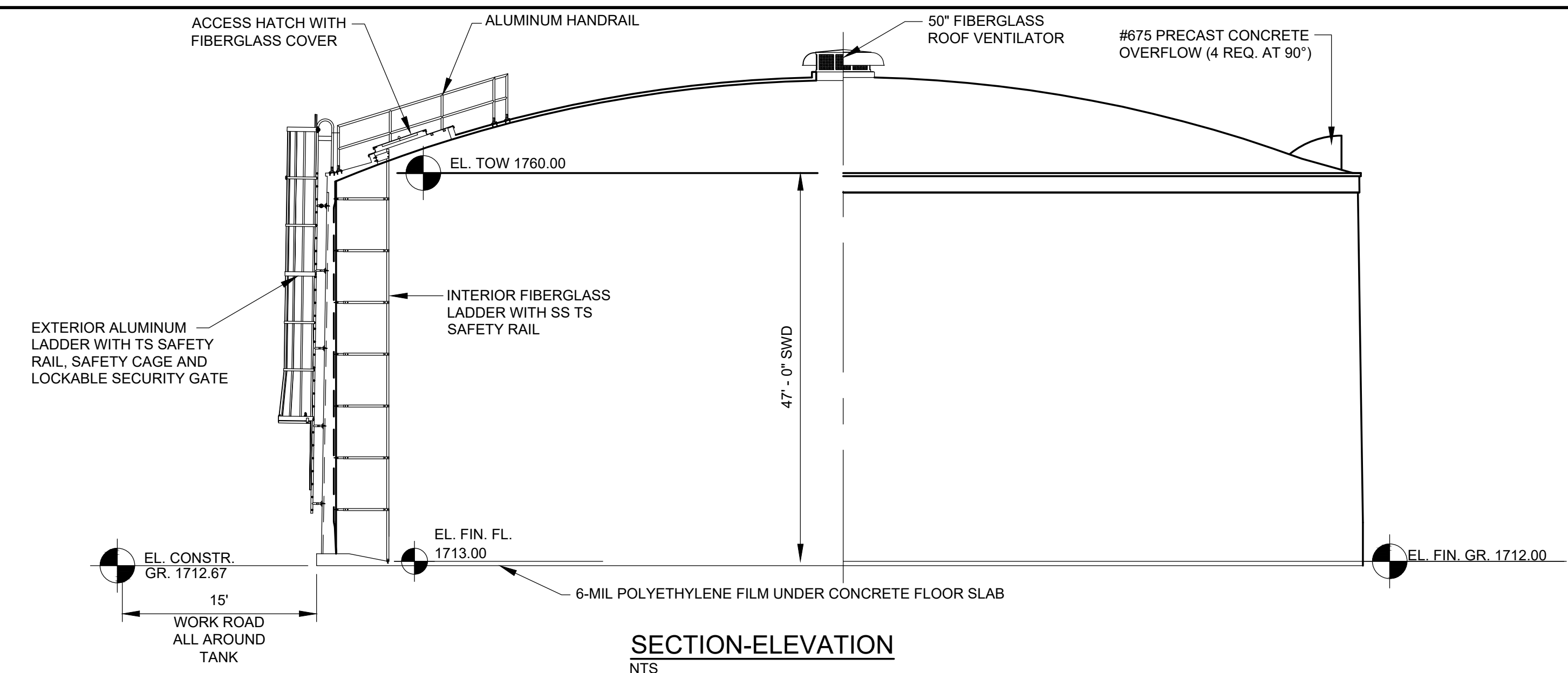
REVISIONS		DESIGN		DRAWING		CHECKED		APPROVED	
NO.	DESCRIPTIONS	DATE	BY	APPD	NH	JRH	NH	NH	NH

WASTEWATER TREATMENT PLANT EXPANSION
BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06
METER VAULT AND EFFLUENT PUMP STATION
DETAILS

ENGINEERS, INC.
 3354 PERIMETER HILL DRIVE, SUITE 140
 NASHVILLE, TN 37211
 615-834-8500

JOB NO.	N16003
ISSUE DATE	November 30, 2018
SCALE	1/2" = 1' - 0"
DRAWING NO.	M-1002

CTI PROJECT: N16003-01 (TN Dept. General Services TDEC) Bledsoe County Correctional Complex, DRAWING: CTI - M-1101 EFFLUENT STORAGE TANK PLAN (5/5/15/2019 11:19 12:03PM), LAYOUT: 2.0 INDEX
 DATE OF PRINT: 3/14/2019 3:46 PM



- NOTES:
- FIELD VERIFY ALL ACCESSORY & PIPE LOCATIONS WITH DESIGNER PRIOR TO PLACEMENT.
 - THE TANK SUPPLIER TO PROVIDE WALL AND FLOOR ELEMENTS NECESSARY TO ACCEPT BRACKETS AND OTHER ATTACHMENTS SHOWN ON THE DRAWINGS. FINAL CONFIGURATIONS AND DETAILS TO BE DETERMINED THROUGH SHOP DRAWING REVIEW PROCEDURES.

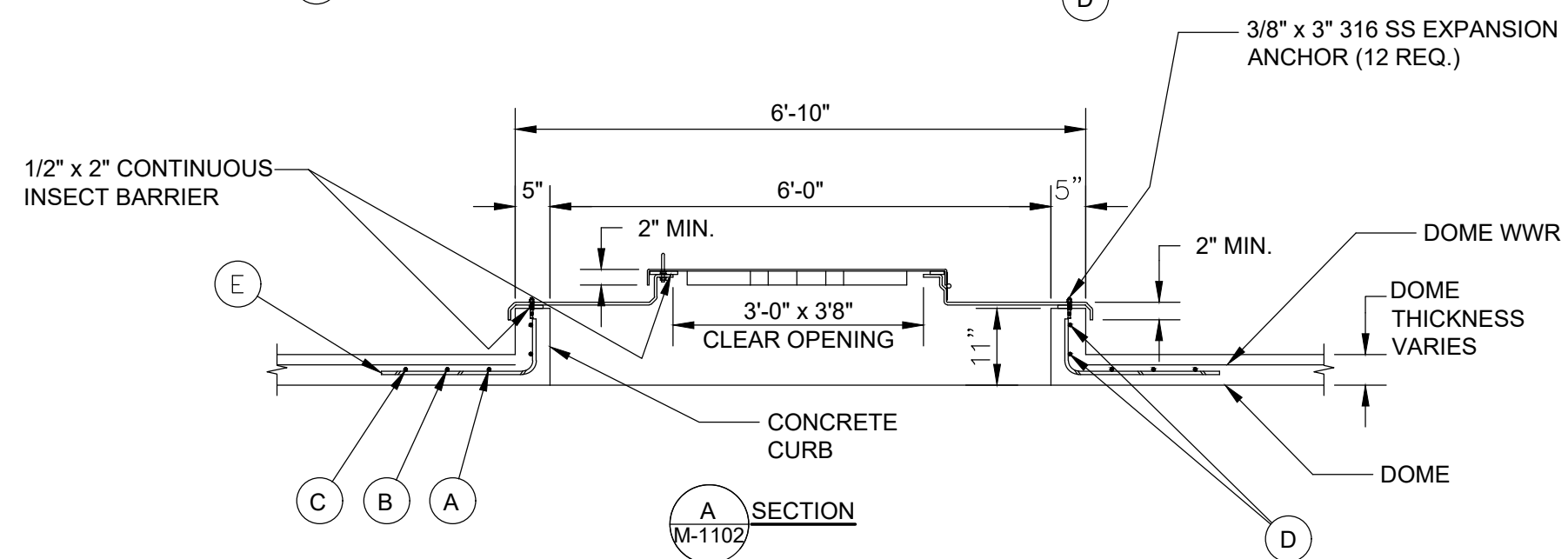
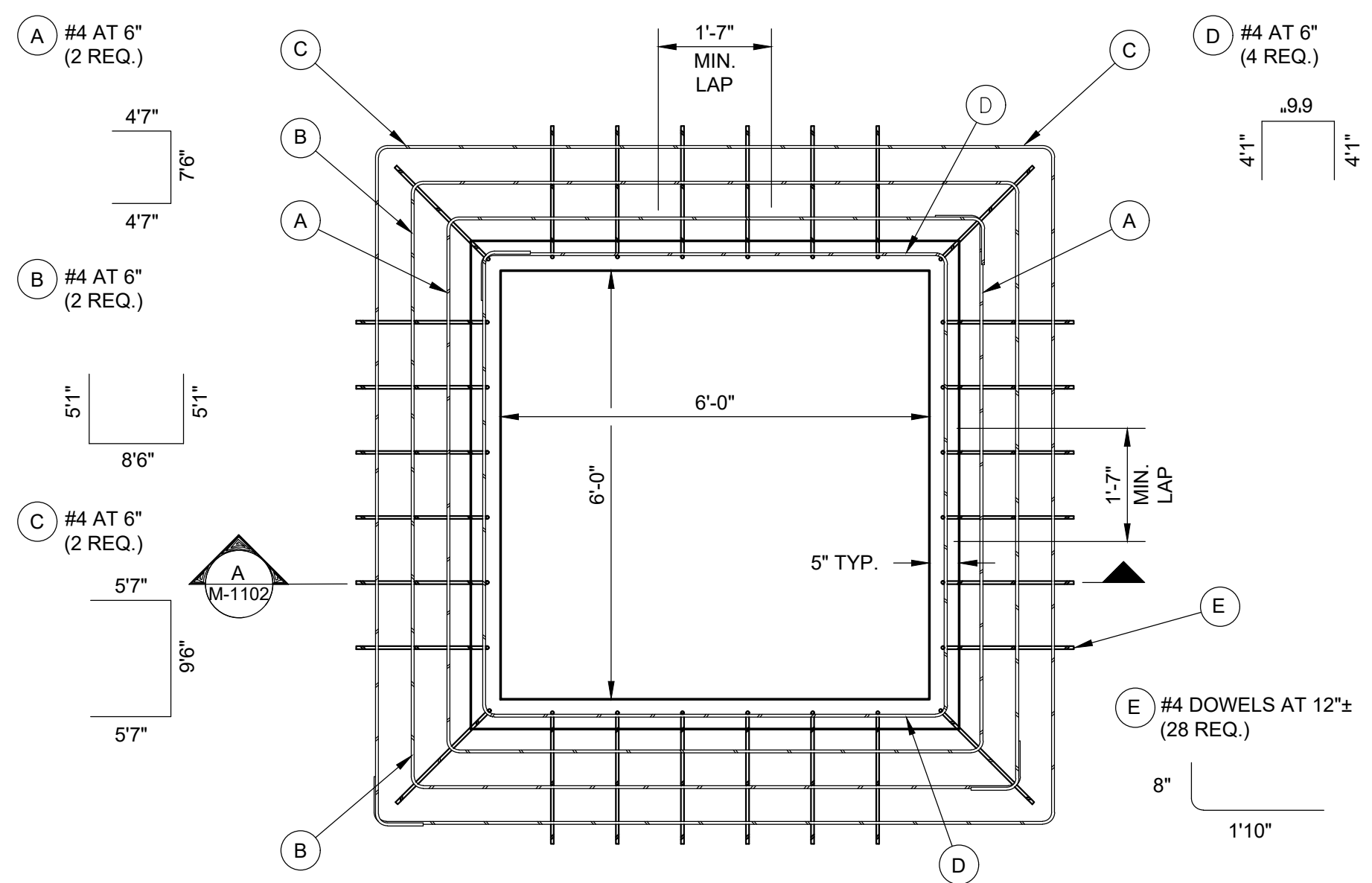
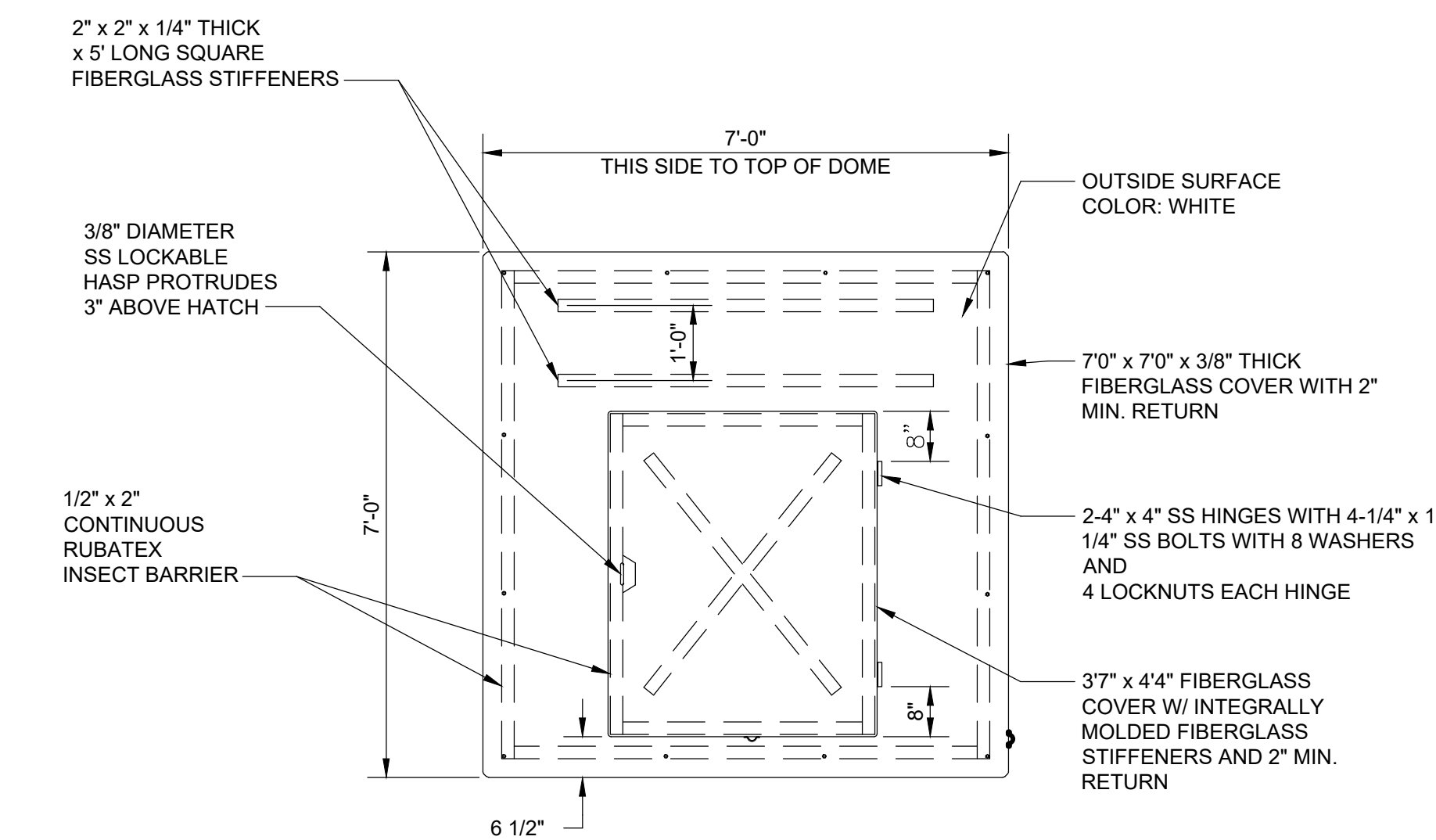
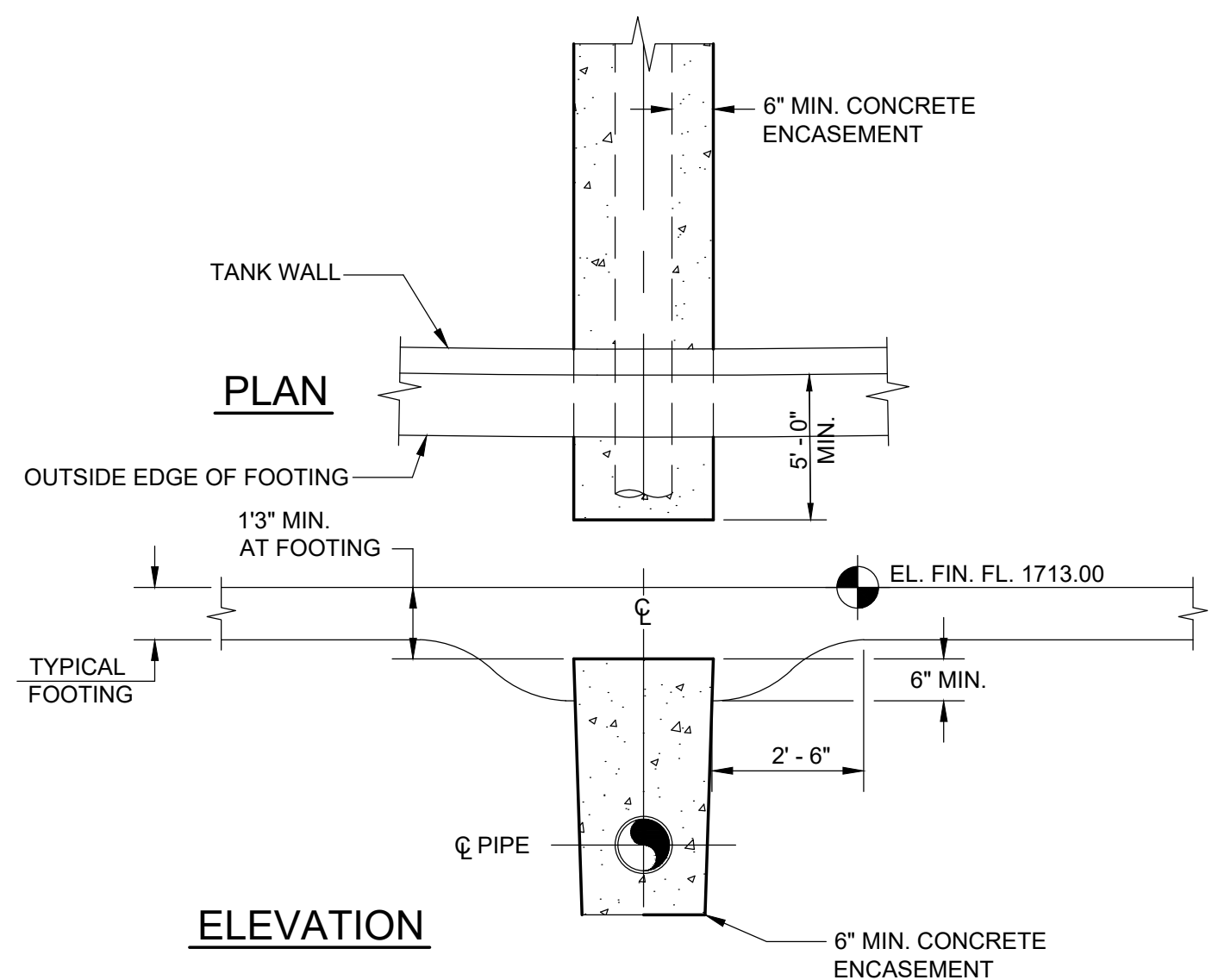
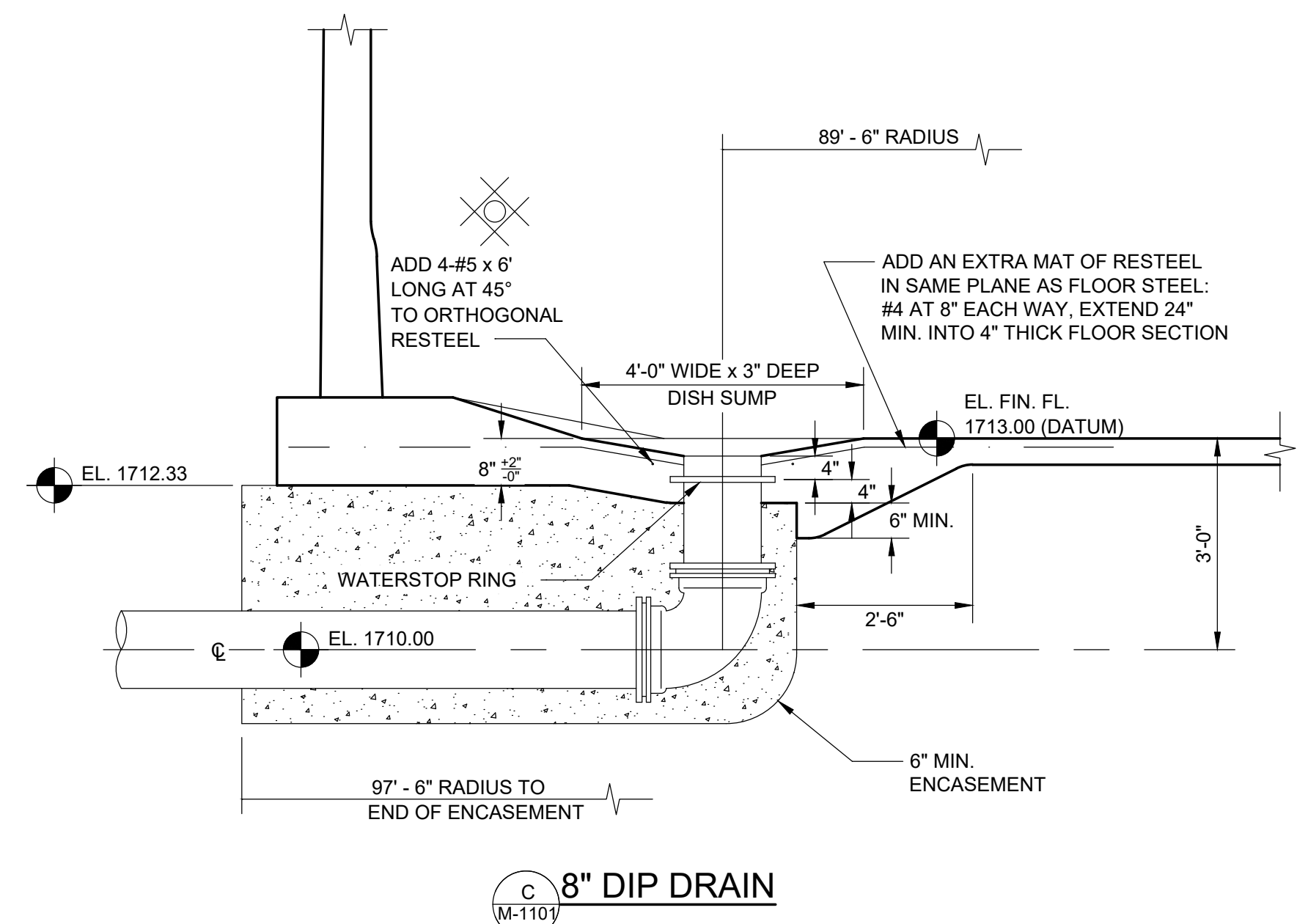
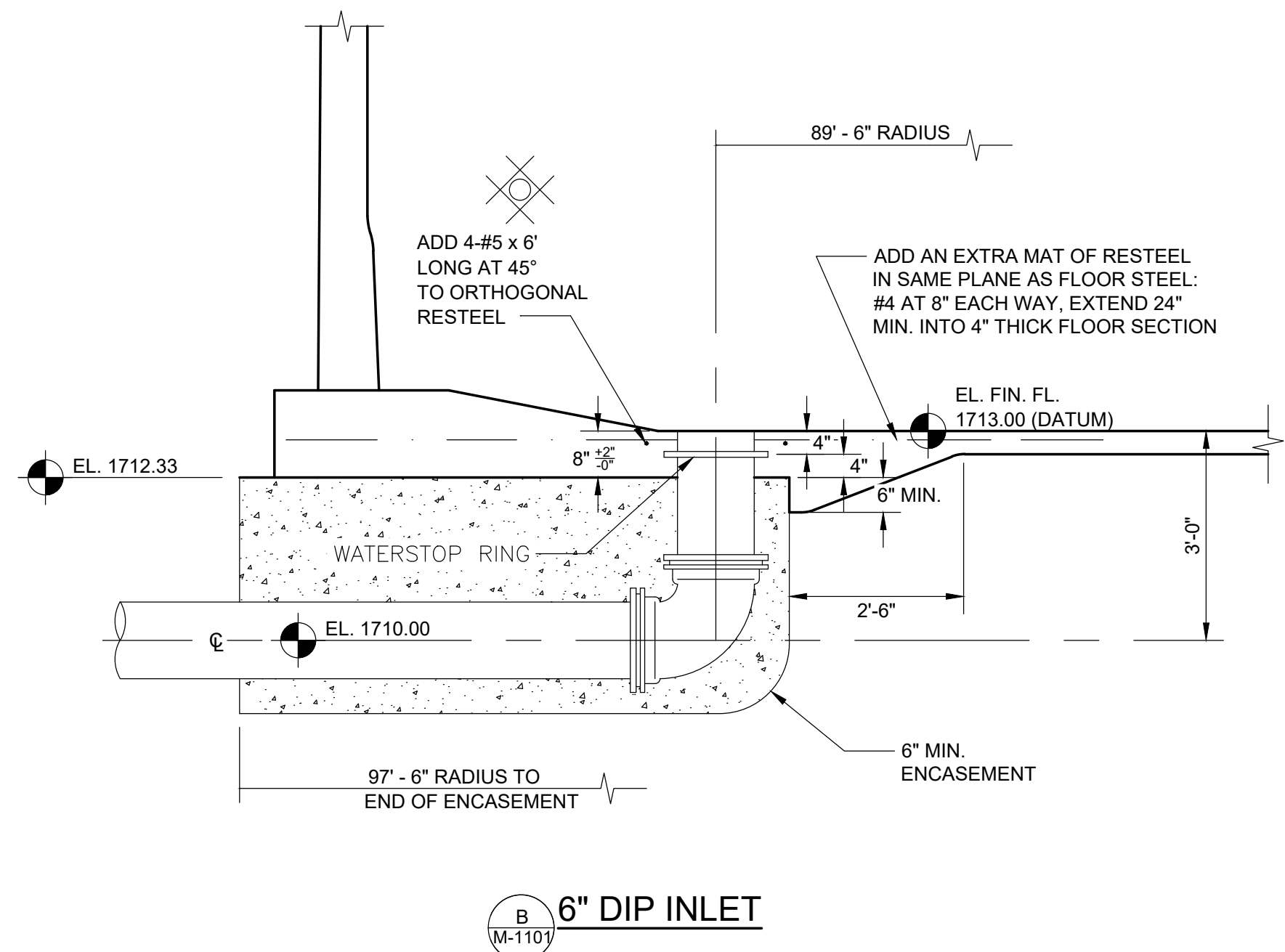
REVISIONS		DATE	BY	APPD
NO.	DESCRIPTIONS			

DESIGN	PCC	DRAWN	JRH	CHECKED	NH	APPROVED	PCC

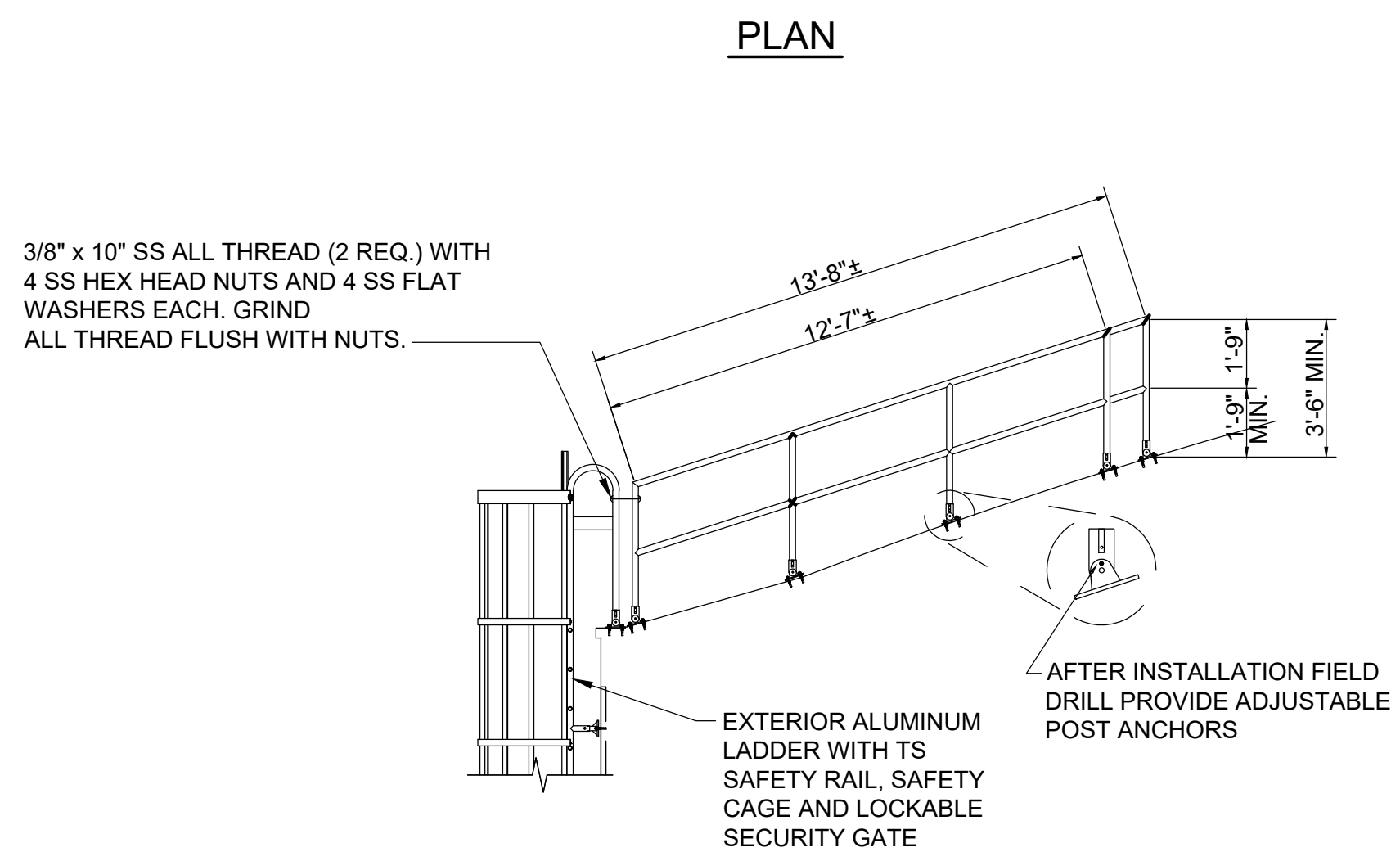
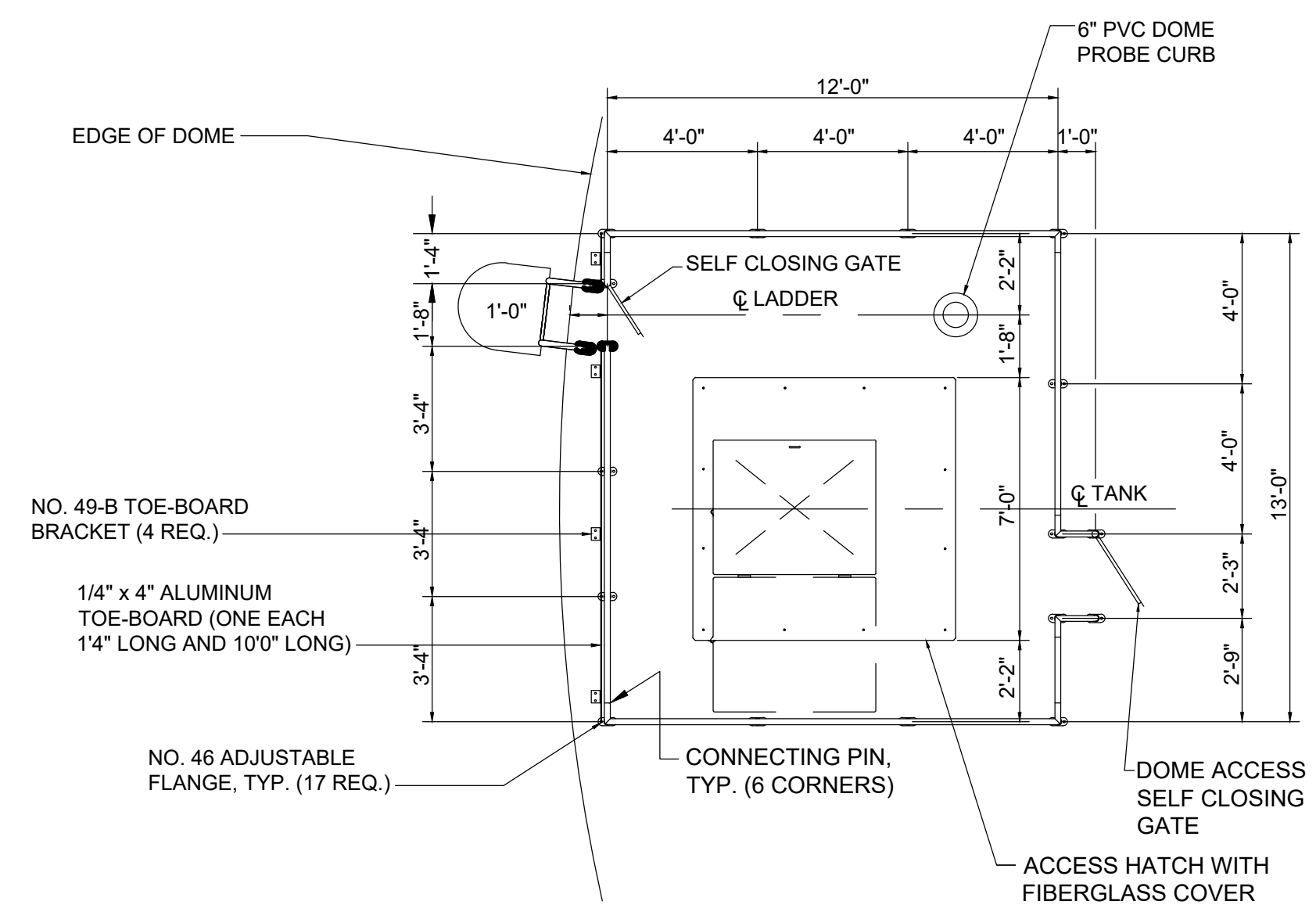
WASTEWATER TREATMENT PLANT EXPANSION
BLED SOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLED SOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06
EFFLUENT STORAGE TANK PLAN

PAUL C. CALE
 REGISTERED ENGINEER
 No. 11680
 STATE OF TENNESSEE

JOB NO. N16003
 ISSUE DATE November 30, 2018
 SCALE AS NOTED
 DRAWING NO. M-1101



ACCESS HATCH WITH FIBERGLASS COVER
 SCALE: 1/2" = 1'-0"



NOTES:

1. USE HIGH TENSILE ALUMINUM ALLOY FITTINGS.
2. USE 1 1/2" SCHEDULE 40/6061-T6 ALUMINUM PIPE.
3. TOEBOARDS TO BE 6061-T6 ALUMINUM.
4. USE 1/2" x 2 3/4" 316 SS EXPANSION ANCHORS (43 REQUIRED).
5. ALL ALUMINUM IN DIRECT CONTACT WITH CONCRETE SHALL BE COATED WITH A MINIMUM 8.0 DRY MIL THICKNESS COAL TAR COATING.
6. DETAILS SHOWN ON THIS DRAWING WERE PROVIDED BY A TANK SUPPLIER. THEY ARE FOR BIDDING PURPOSES ONLY. FINAL CONSTRUCTION DETAILS TO BE DETERMINED THROUGH THE SHOP DRAWING REVIEW PROCESS.

REVISIONS		DESIGN	
NO.	DESCRIPTIONS	DATE	BY

DESIGN	PCC	CHECKED	NH	APPROVED	PCC
DRAWN	JRH	CHECKED	NH	APPROVED	PCC

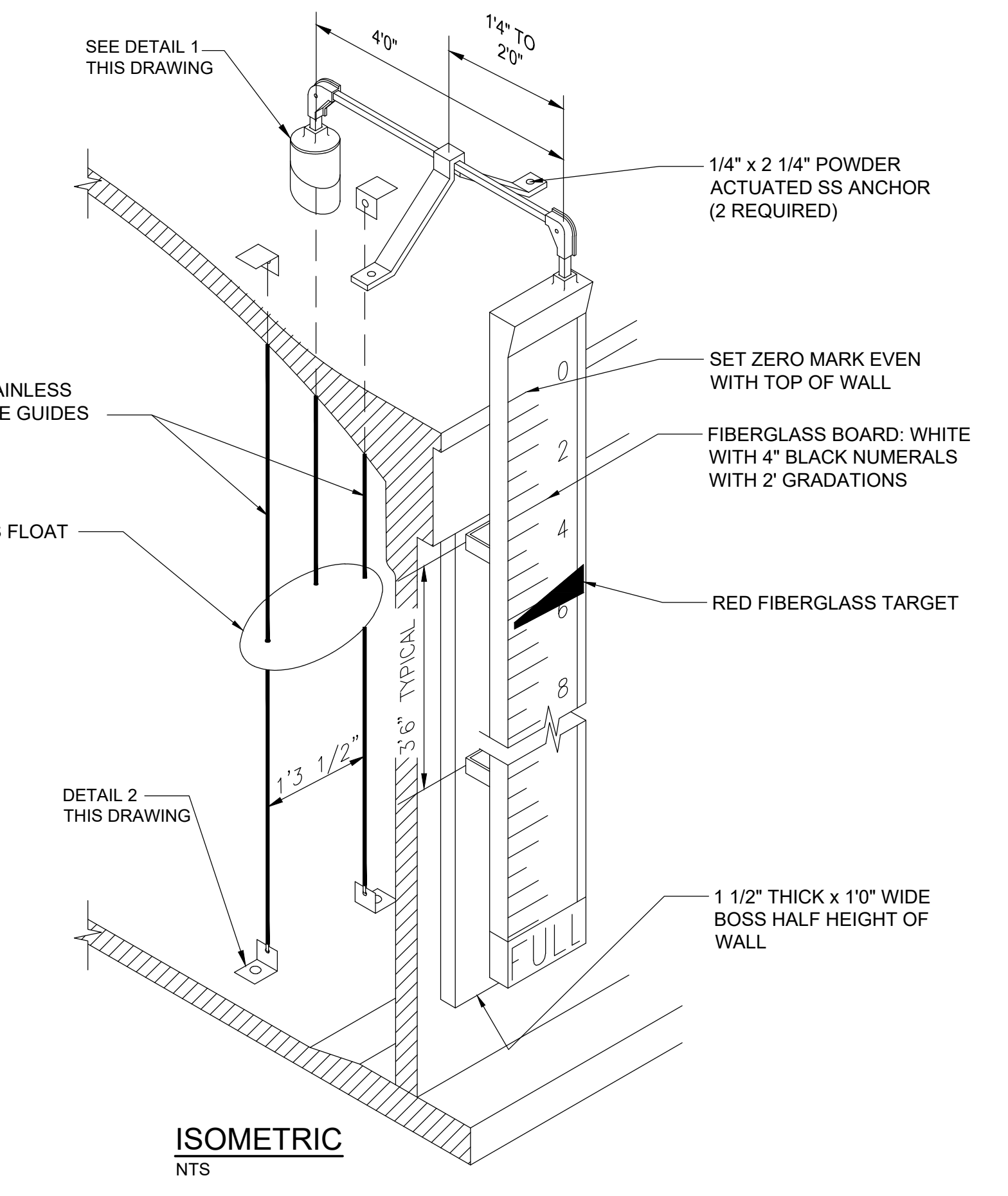
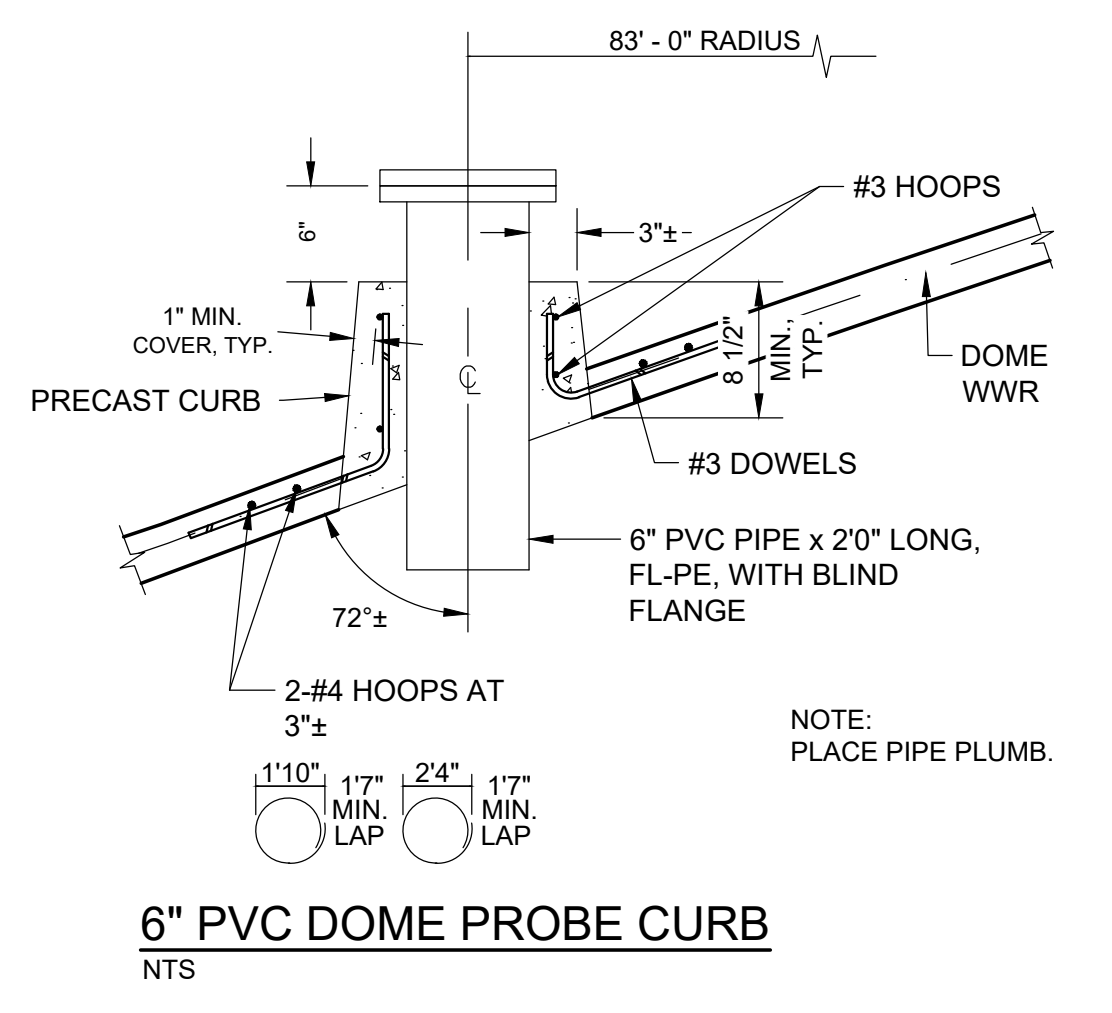
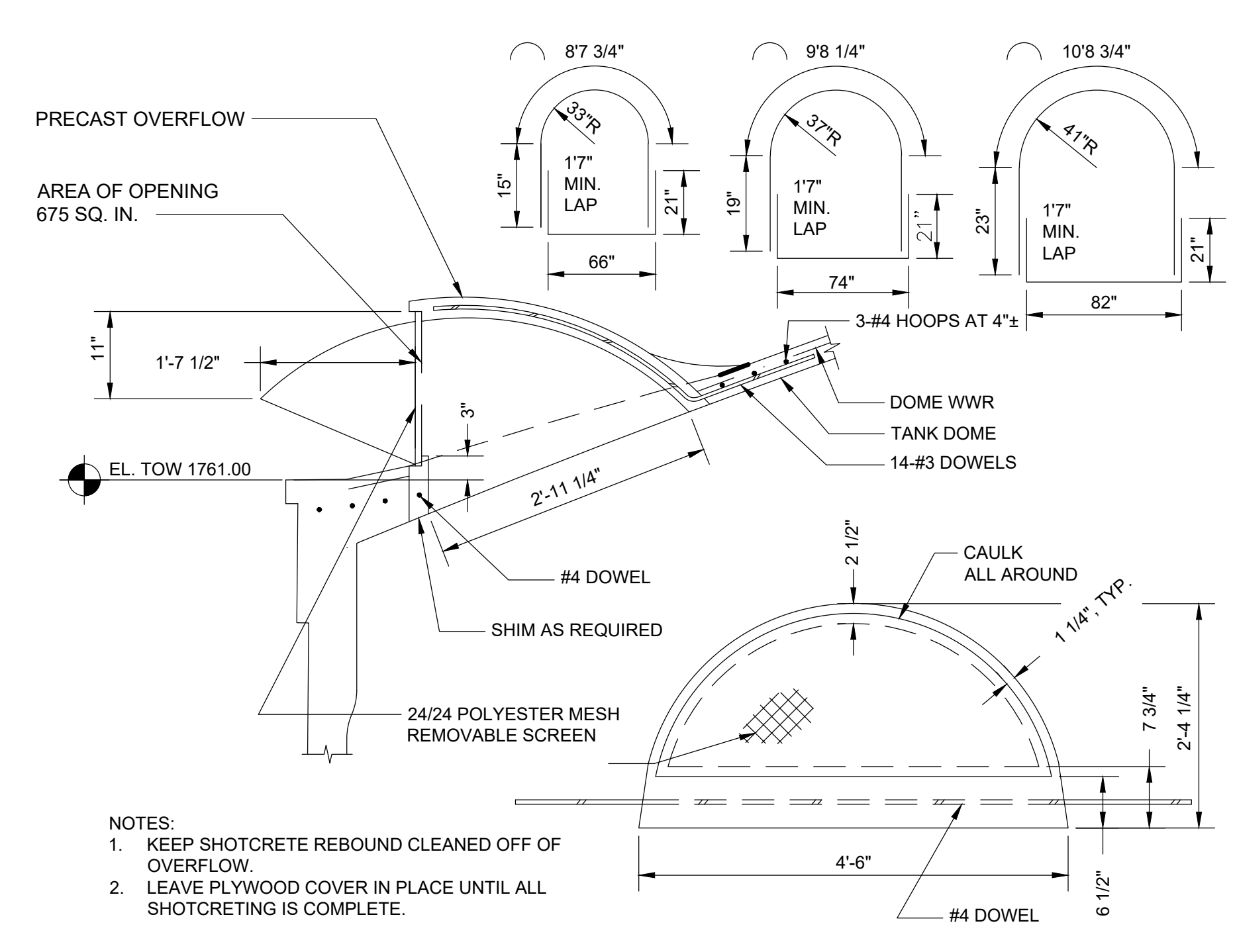
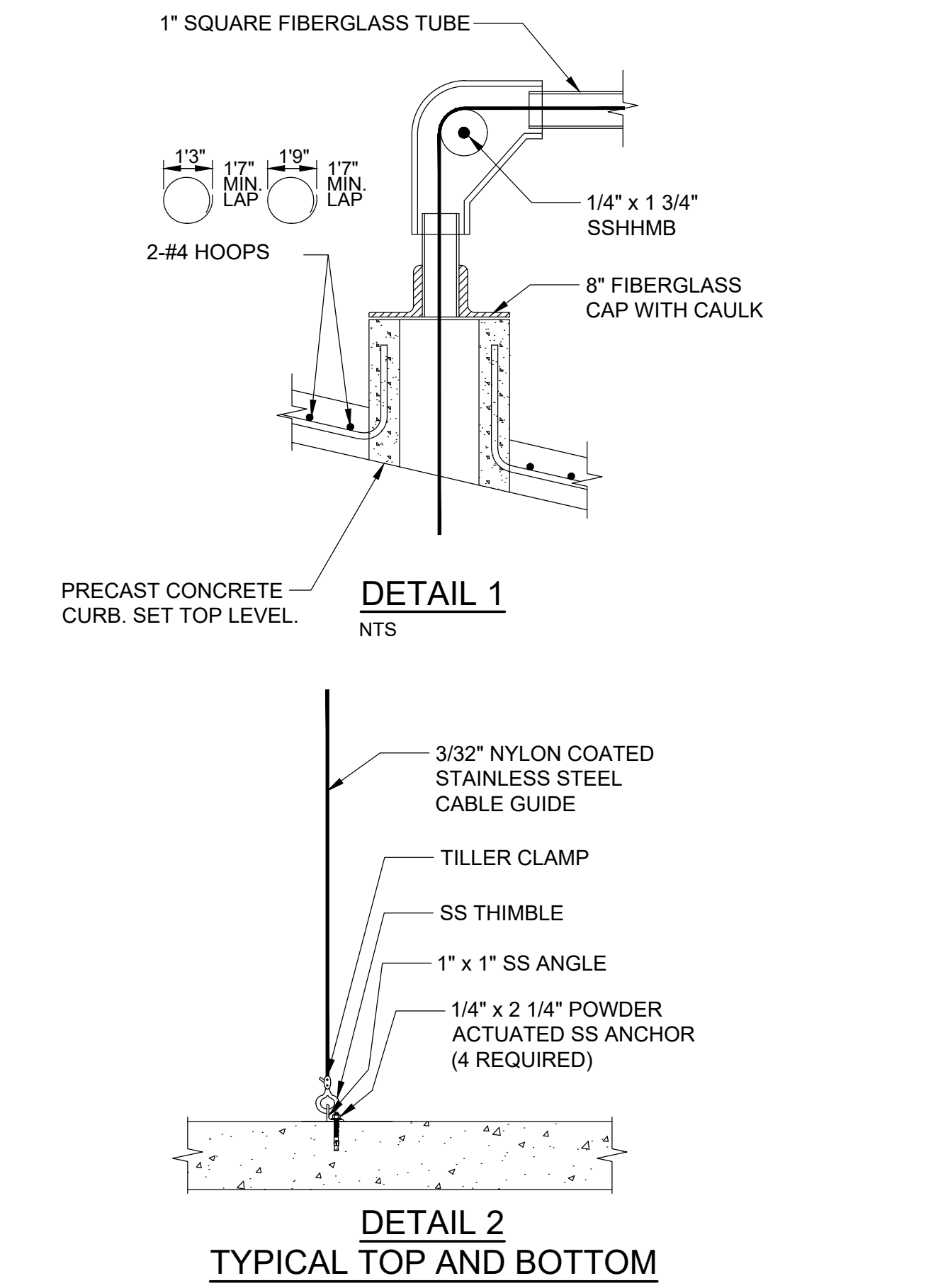
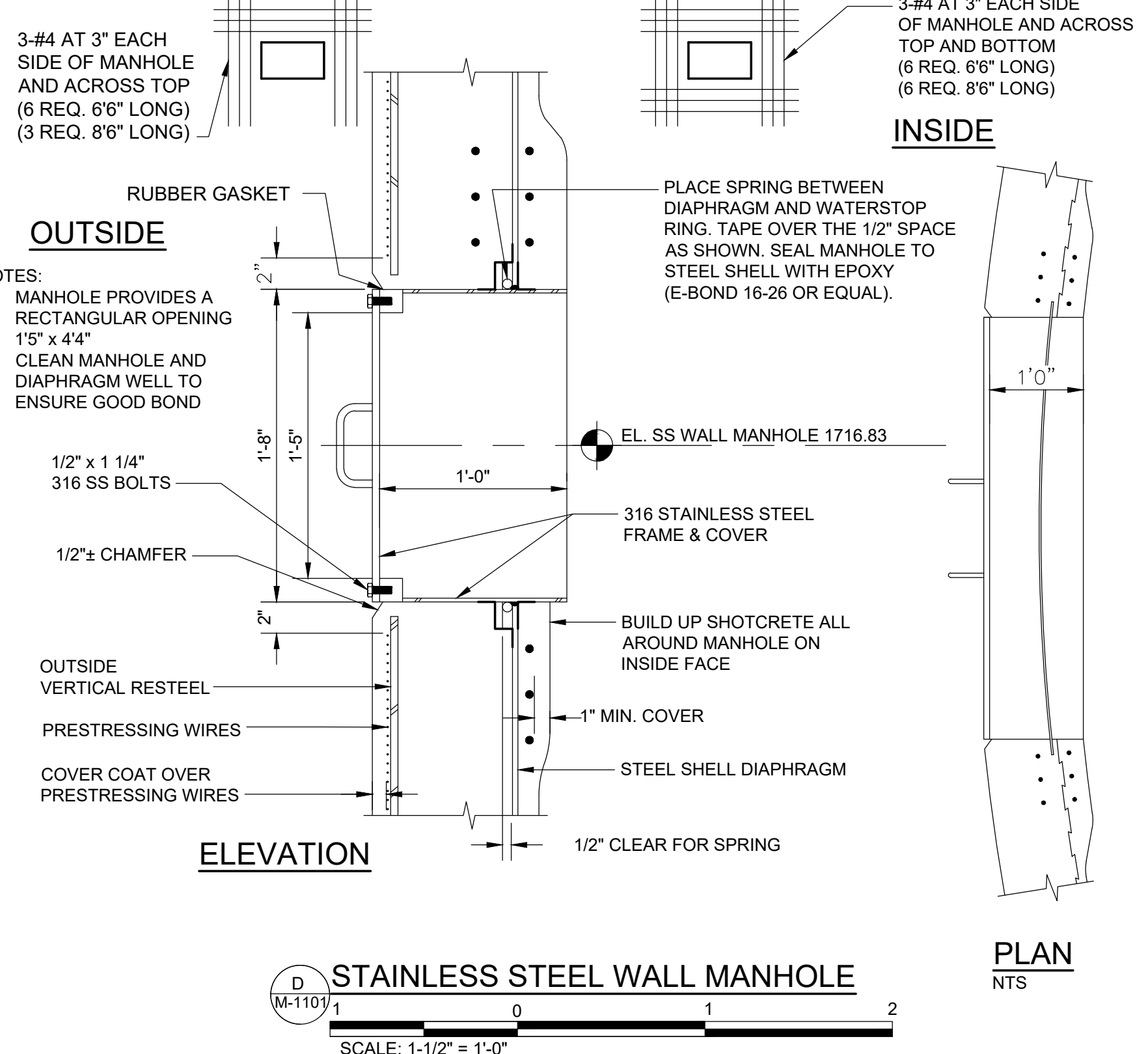
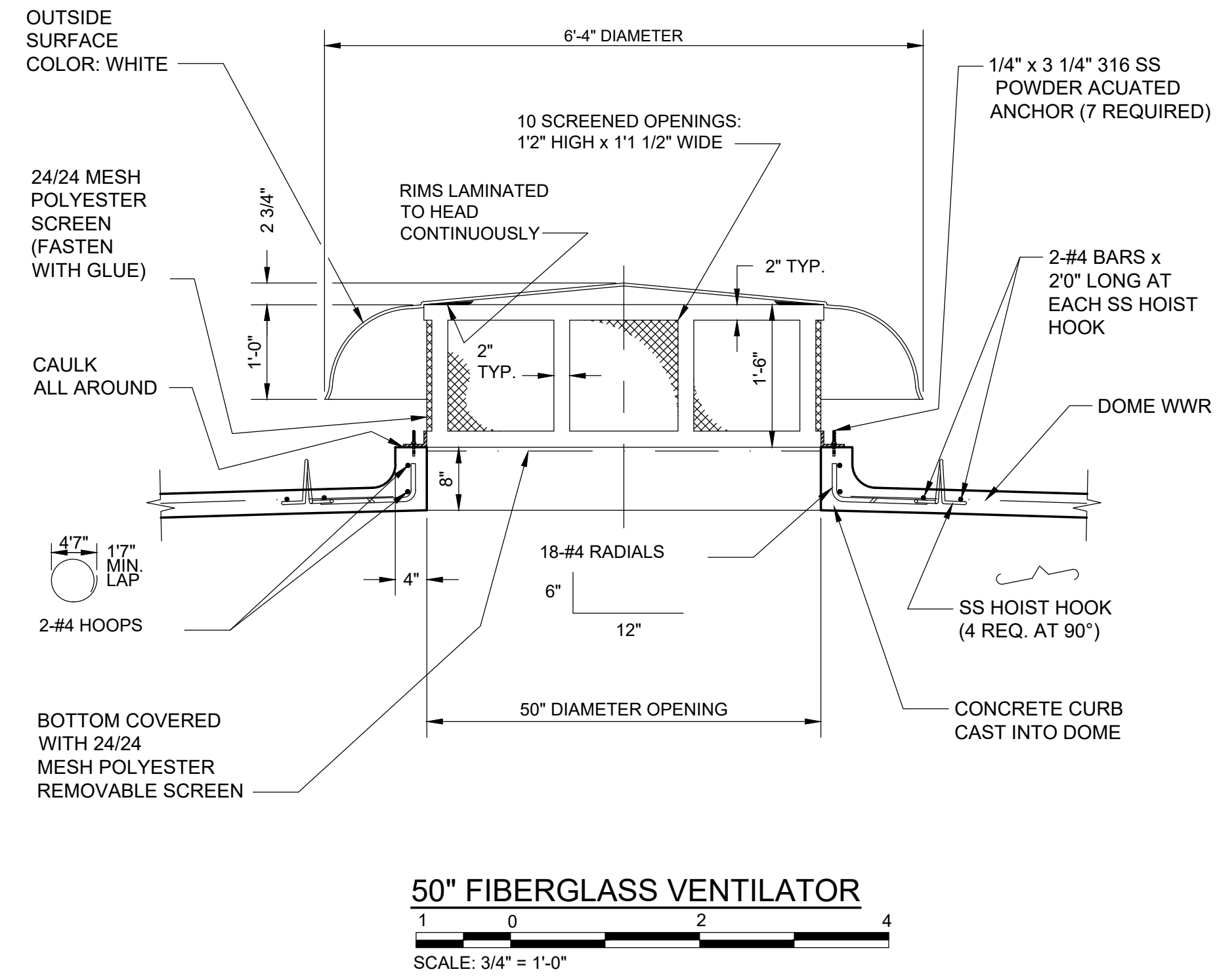
WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06
EFFLUENT STORAGE TANK DETAILS
 (1 OF 3)

G ENGINEERS, INC.
 3354 PERMIER HILL DRIVE, SUITE 140
 NASHVILLE, TN 37211
 615-834-8900

PAUL C. CATE
 REGISTERED ENGINEER
 STATE OF TENNESSEE
 No. 11862

JOB NO.
 N16003
 ISSUE DATE
 November 30, 2018
 SCALE
 AS NOTED
 DRAWING NO.
 M-1102

CTI PROJECT: N16003-01 (TN Dept. General Services TDEC) Bledsoe County Correctional Complex, DRAWING: CTI - M-1103 EFFLUENT STORAGE TANK DETAILS (2 OF 3) (568515v173/6/19 12:17PM), LAYOUT: M-1103
 DATE OF PRINT: 3/14/2019 3:47 PM



REVISIONS			
NO.	DATE	BY	APPD
DESIGN			
PCC	JRH	INH	PCC
DRAWN	CHECKED	APPROVED	

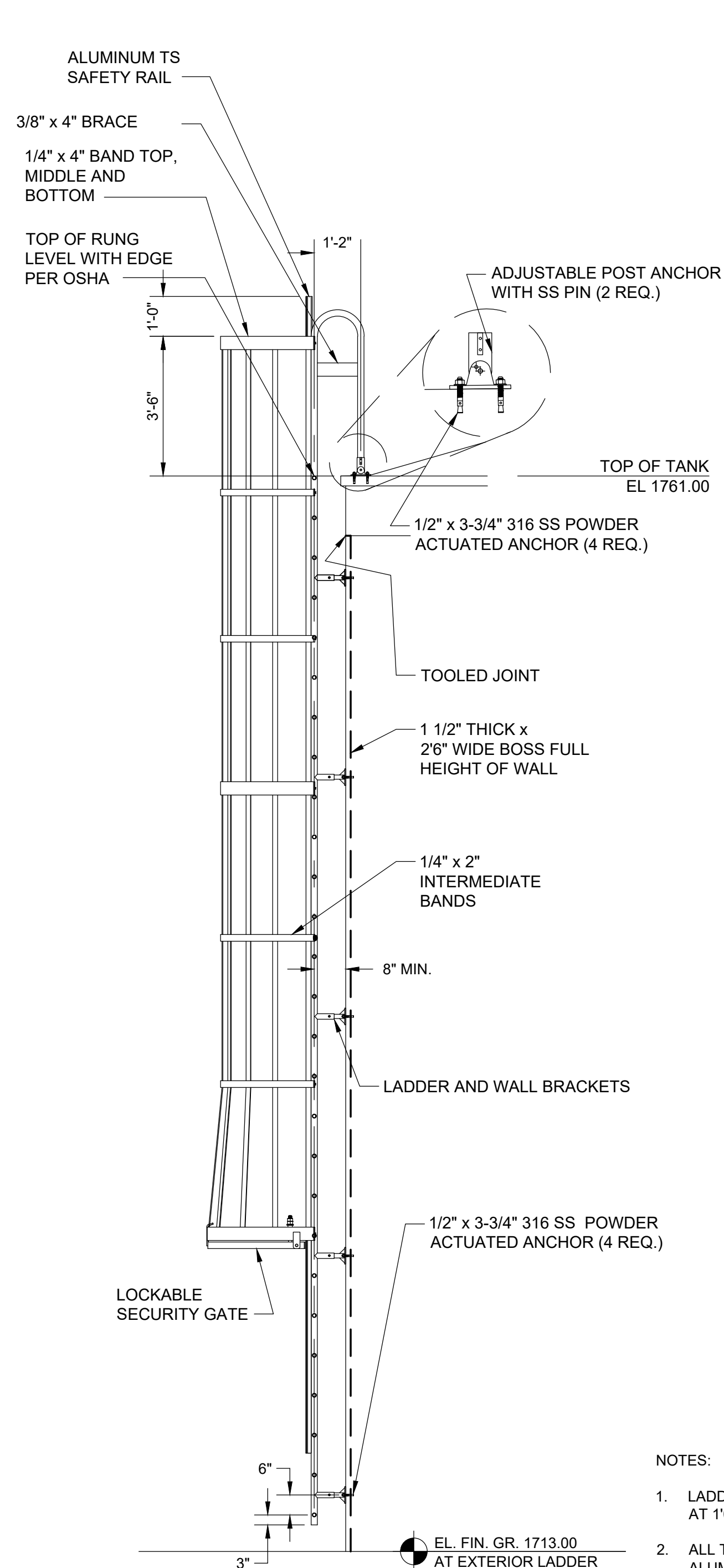
WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

EFFLUENT STORAGE TANK DETAILS
 (2 OF 3)

ENGINEERS, INC.
 3354 PERIMETER HILL DRIVE, SUITE 140
 NASHVILLE, TN 37211
 615-834-8500

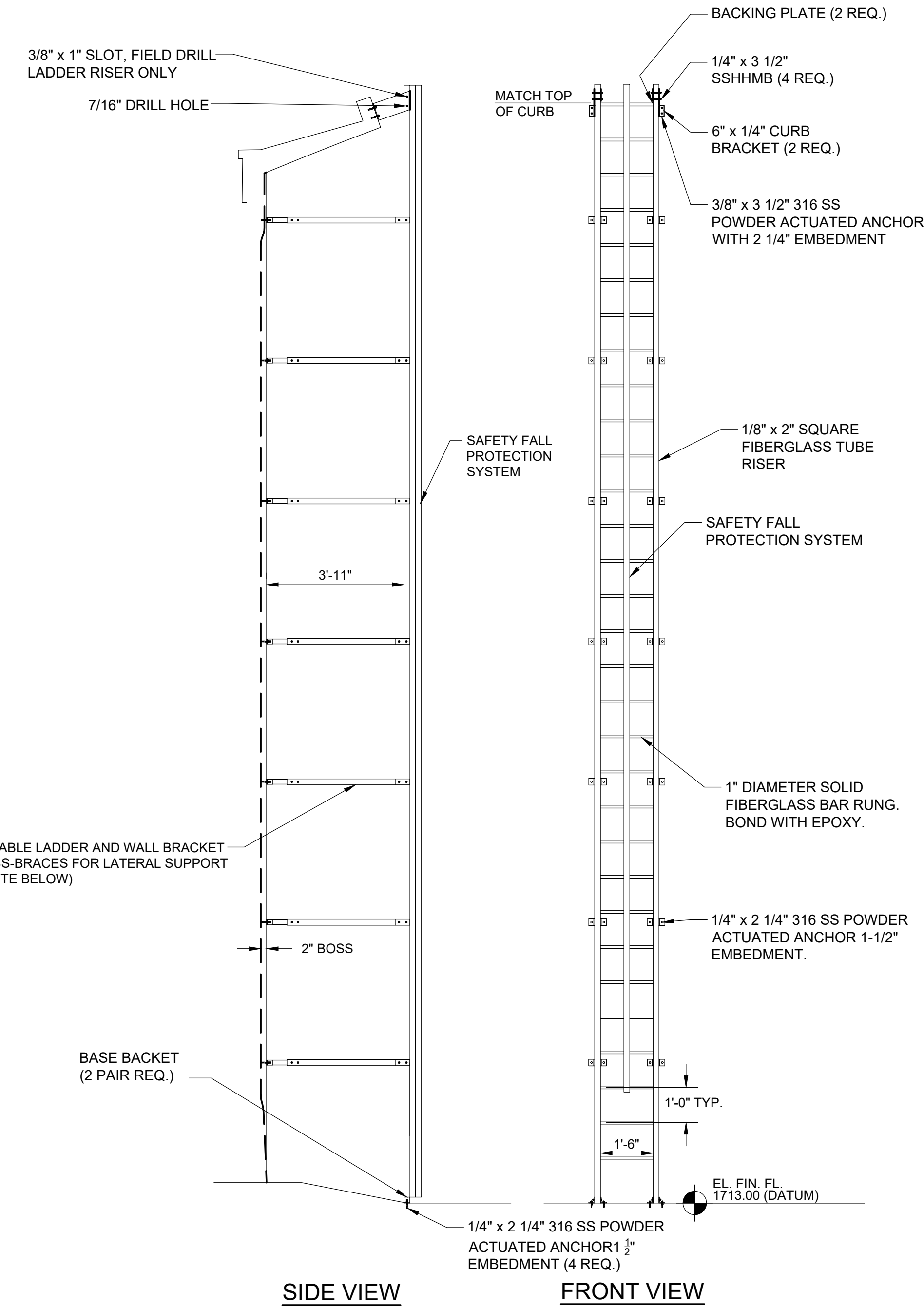
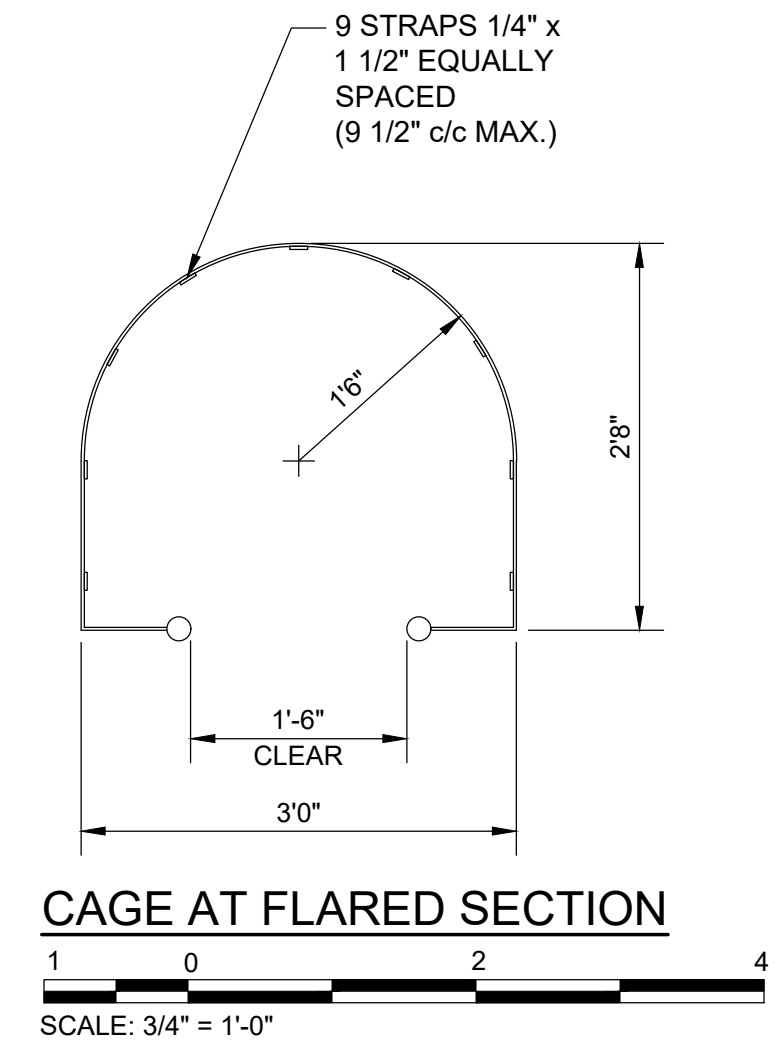
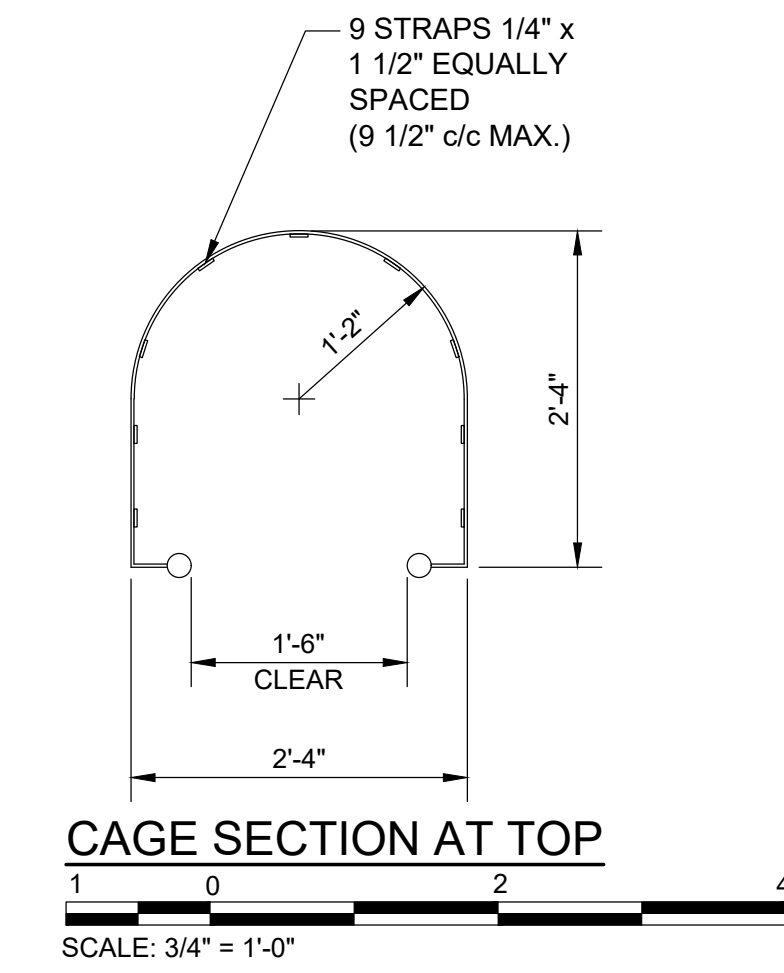
PAUL C. CATE
 REGISTERED ENGINEER
 STATE OF TENNESSEE
 NO. 11985

JOB NO. N16003
ISSUE DATE November 30, 2018
SCALE AS NOTED
DRAWING NO. M-1103



- NOTES:
- LADDER HAS 1 1/2" DIAMETER RAILS WITH 1" DIAMETER RUNGS SPACED AT 1'0" c/c.
 - ALL TUBULAR MATERIAL TO BE NOMINAL DIAMETER SCHEDULE 40 ALUMINUM PIPE 6061-T6 OR 6063-T6.
 - PLATES AND GUSSETS TO BE STRUCTURAL GRADE ALUMINUM 6061-T6.
 - ALL ALUMINUM IN DIRECT CONTACT WITH CONCRETE SHALL BE COATED WITH A MINIMUM 8.0 DRY MIL THICKNESS COAL TAR COATING.
 - ALL RAILS WHEN PROPERLY INSTALLED SHALL MEET OR EXCEED OSHA REQUIREMENTS.

E
M-1101
**EXTERIOR ALUMINUM LADDER WITH TS SAFETY RAIL,
SAFETY CAGE AND LOCKABLE SECURITY GATE**
NTS



- NOTES:
- 1/4" x 2" FLAT BAR FIBERGLASS CROSS BRACE TO BE PROVIDED FOR BRACING WALL BRACKET SUPPORTS ON EVERY BRACKET.

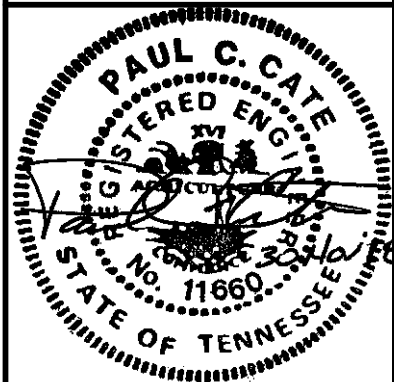
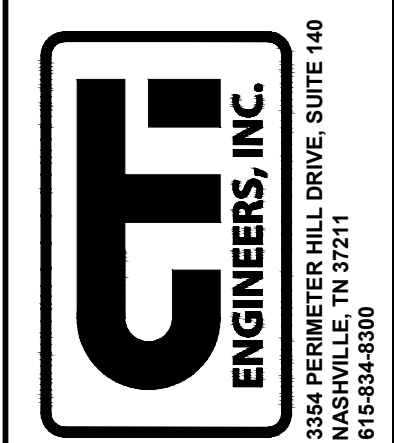
F
M-1101
INTERIOR FIBERGLASS LADDER WITH TS SAFETY RAIL
NTS

NOTE:
DETAILS SHOWN ON THIS DRAWING WERE PROVIDED BY A TANK SUPPLIER. THEY ARE FOR BIDDING PURPOSES ONLY. FINAL CONSTRUCTION DETAILS TO BE DETERMINED THROUGH THE SHOP DRAWING REVIEW PROCESS.

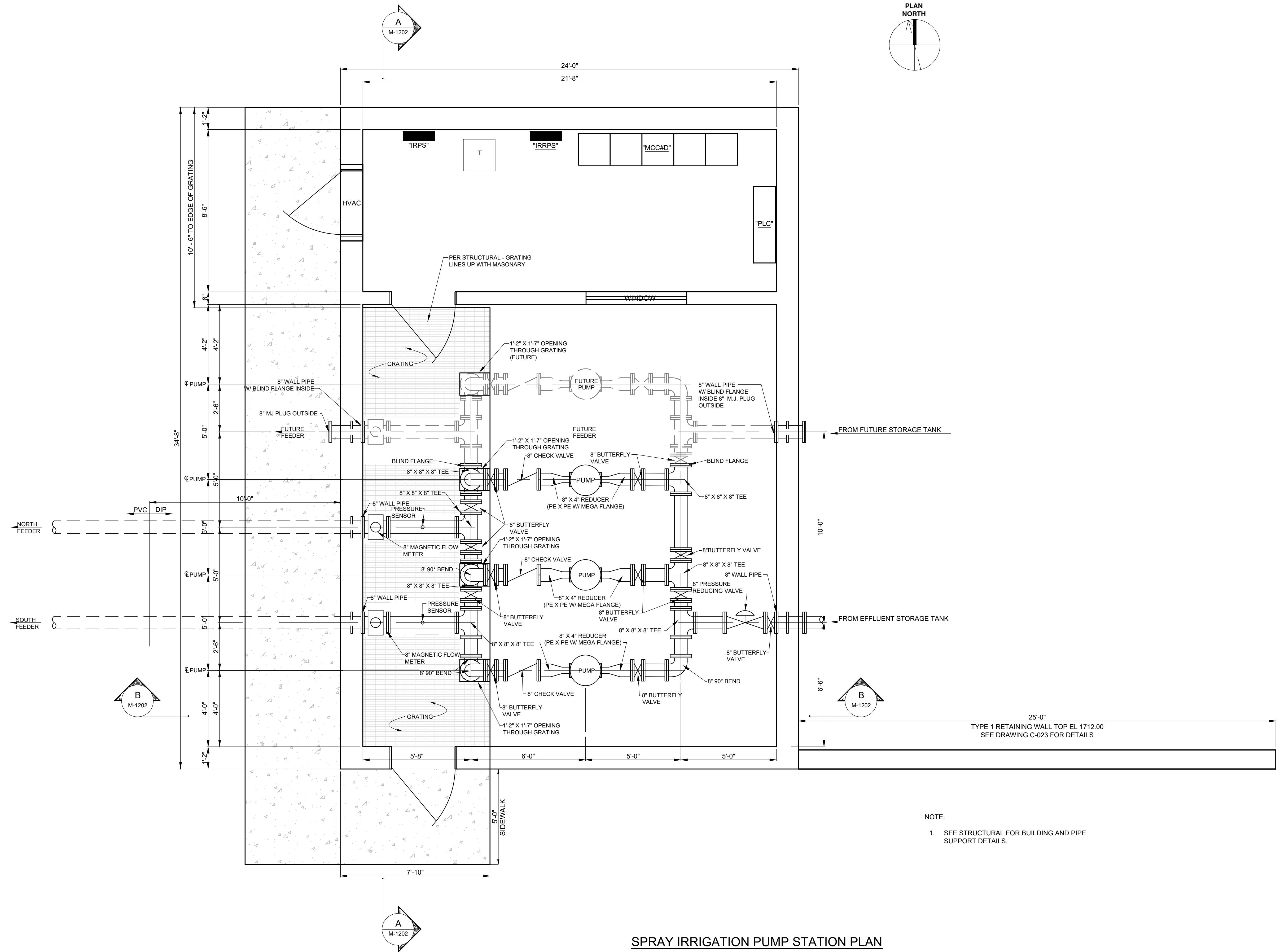
REVISIONS		DATE	BY	APPD
NO.	DESCRIPTIONS			

DESIGN	PCC	DRAWN	JRH	CHECKED	NH	APPROVED	PCC
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**WASTEWATER TREATMENT PLANT EXPANSION
BLEDSOE COUNTY CORRECTIONAL COMPLEX**
PIKEVILLE, BLED SOE COUNTY, TENNESSEE SEC PROJECT 142/013-01-2013-06
EFFLUENT STORAGE TANK DETAILS
(3 OF 3)

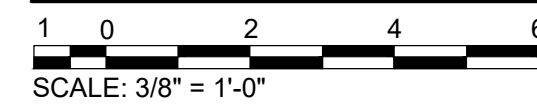


JOB NO.	N16003
ISSUE DATE	November 30, 2018
SCALE	AS NOTED
DRAWING NO.	M-1104



NOTE:
1. SEE STRUCTURAL FOR BUILDING AND PIPE SUPPORT DETAILS.

SPRAY IRRIGATION PUMP STATION PLAN

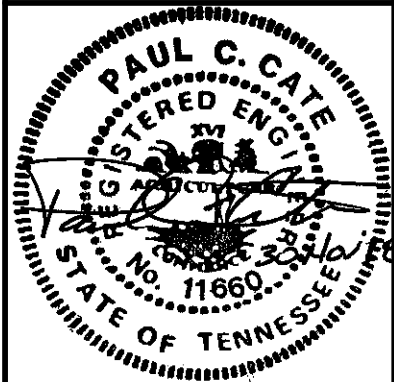
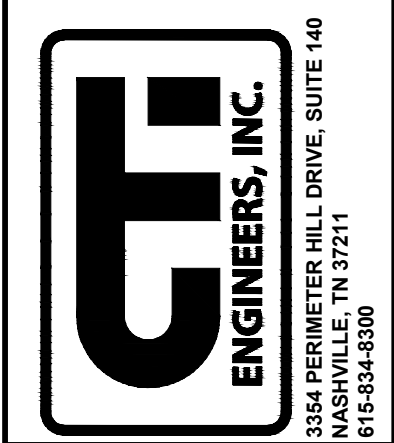


REVISIONS	
NO.	DESCRIPTIONS

DESIGN	DATE	BY	APPD
PCC			
DRAWN			
CHECKED			
APPROVED			

WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

SPRAY IRRIGATION PUMP STATION
 PLAN

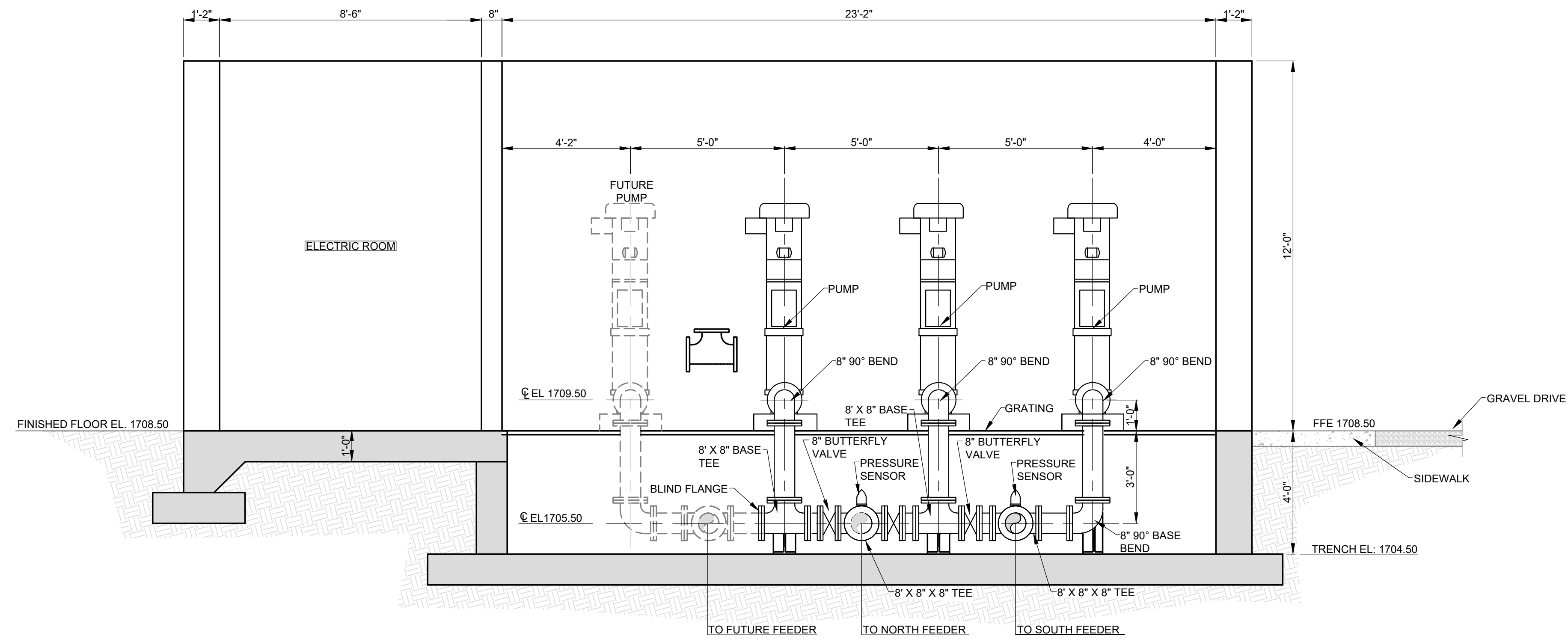


JOB NO.
N16003

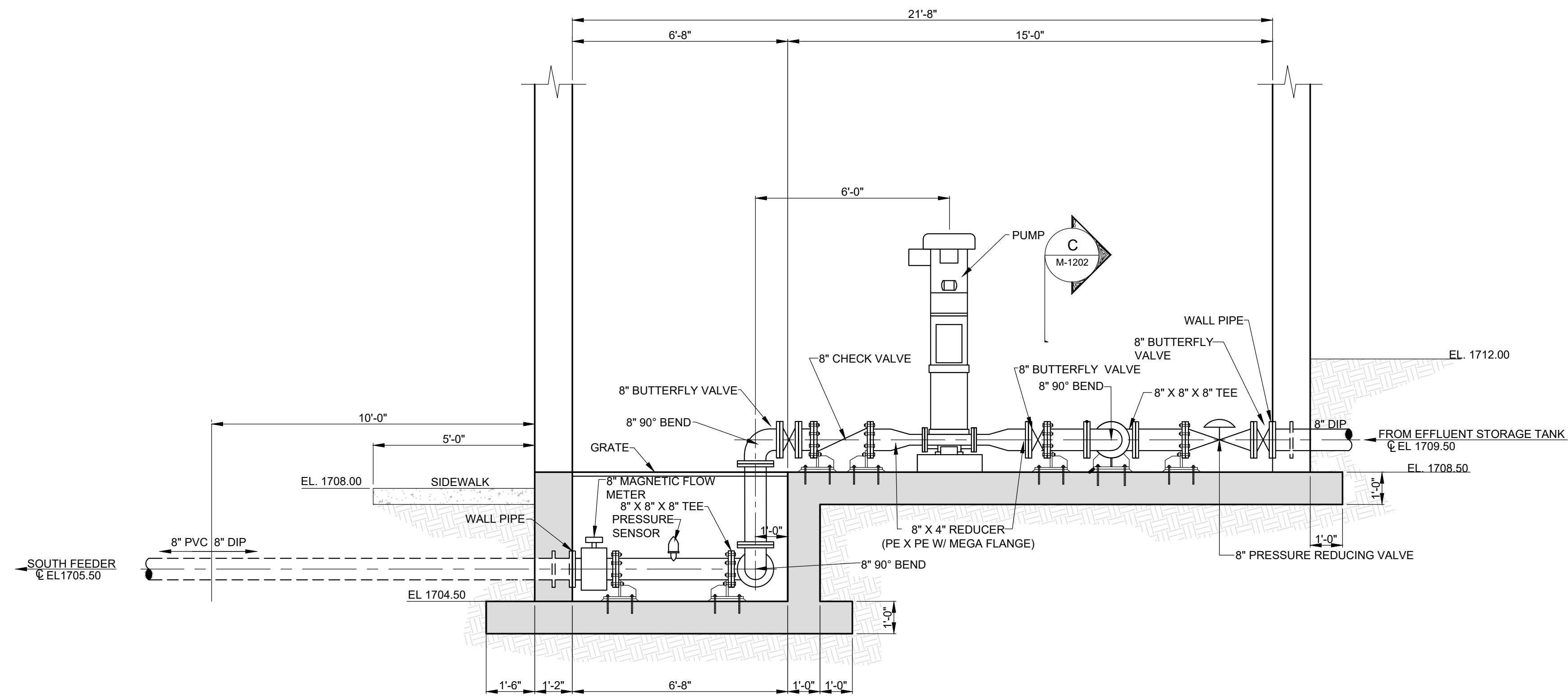
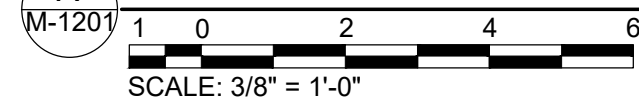
ISSUE DATE
November 30, 2018

SCALE
3/8" = 1' - 0"

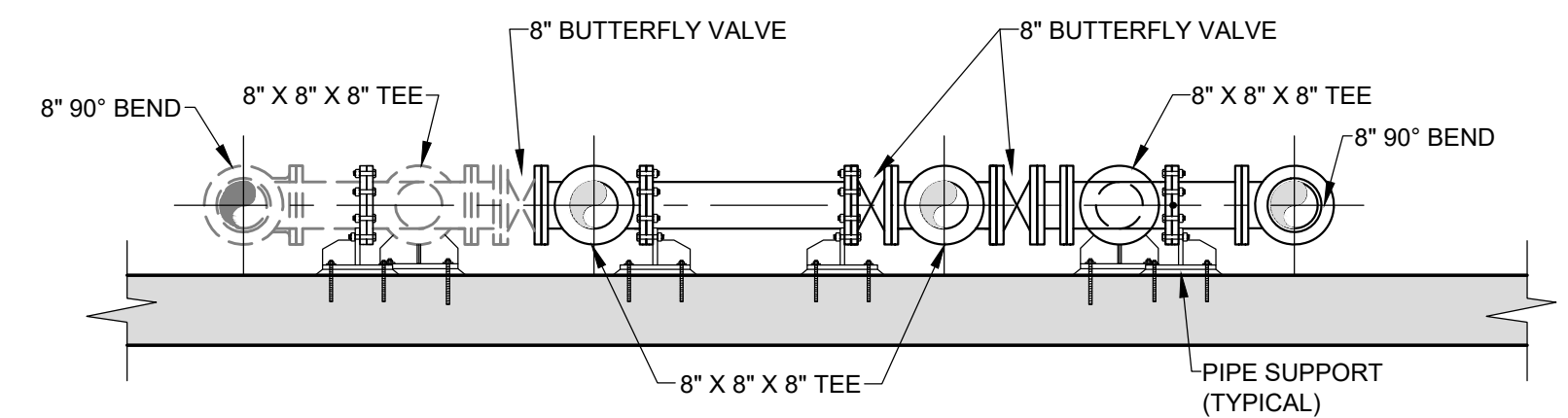
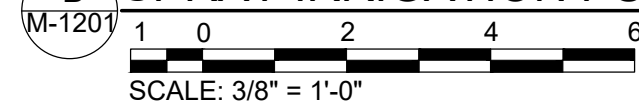
DRAWING NO.
M-1201



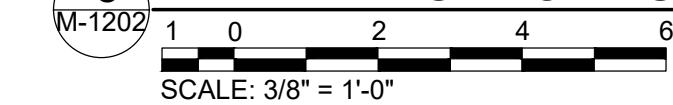
A SPRAY IRRIGATION PUMP STATION SECTION



B SPRAY IRRIGATION PUMP STATION SECTION



C SPRAY IRRIGATION PUMP STATION SECTION



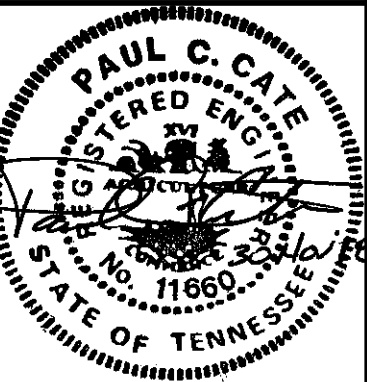
NOTE:

- SEE STRUCTURAL FOR BUILDING AND PIPE SUPPORT DETAILS.

REVISIONS		DATE	BY	APPD
NO.	DESCRIPTIONS			

DESIGN	PCC
DRAWN	JRH
CHECKED	NH
APPROVED	PCC

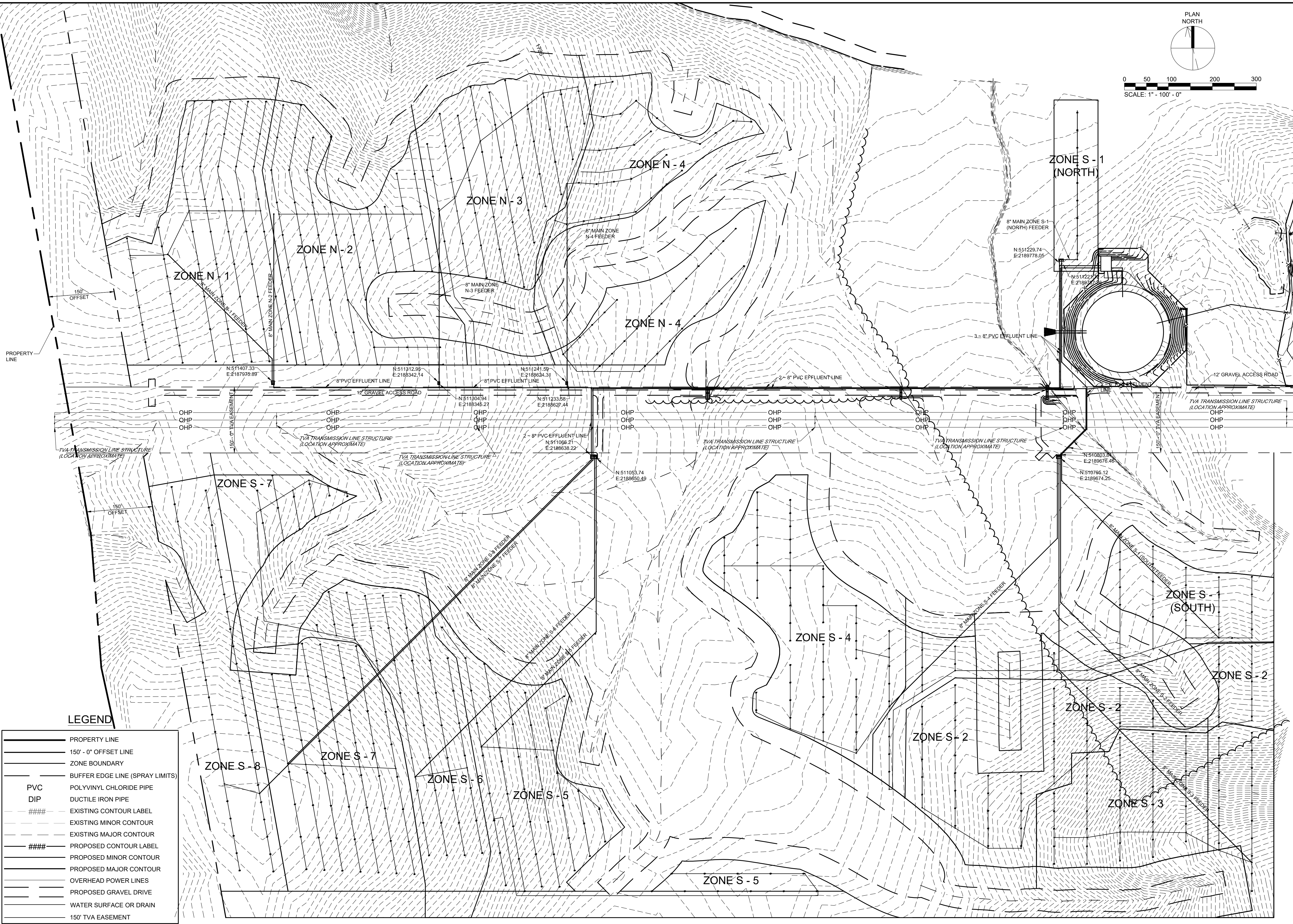
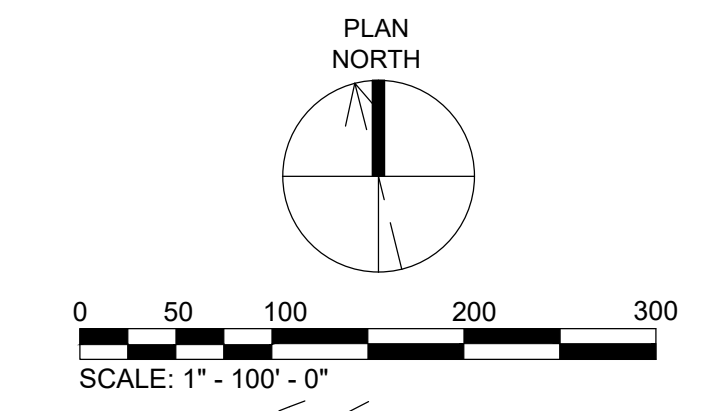
WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06
 SPRAY IRRIGATION PUMP STATION SECTIONS



JOB NO.	N16003
ISSUE DATE	November 30, 2018
SCALE	3/8" = 1' - 0"
DRAWING NO.	M-1202

CTI PROJECT: N16003-01 (TN Dept. General Services TDEC) Bledsoe County Correctional Complex_DRAWING: C.TI - M-1301 SPRAY FIELD INDEX (665438/293/14/19_3:51PM)_LAYOUT: NORTH GRID A

DATE OF PRINT: 3/14/2019 3:55 PM



LEGEND

	PROPERTY LINE
	150' - 0" OFFSET LINE
	ZONE BOUNDARY
	BUFFER EDGE LINE (SPRAY LIMITS)
	PVC POLYVINYL CHLORIDE PIPE
	DIP DUCTILE IRON PIPE
	EXISTING CONTOUR LABEL
	EXISTING MINOR CONTOUR
	EXISTING MAJOR CONTOUR
	PROPOSED CONTOUR LABEL
	PROPOSED MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	OVERHEAD POWER LINES
	PROPOSED GRAVEL DRIVE
	WATER SURFACE OR DRAIN
	150' TVA EASEMENT

REVISIONS	
NO.	DESCRIPTIONS

DESIGN	PCC

WASTEWATER TREATMENT PLANT EXPANSION
BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

ENGINEERS, INC.
 3354 PERIMETER HILL DRIVE, SUITE 140
 NASHVILLE, TN 37211
 615-834-8500

PAUL C. CATE
 REGISTERED ENGINEER
 No. 11663
 STATE OF TENNESSEE

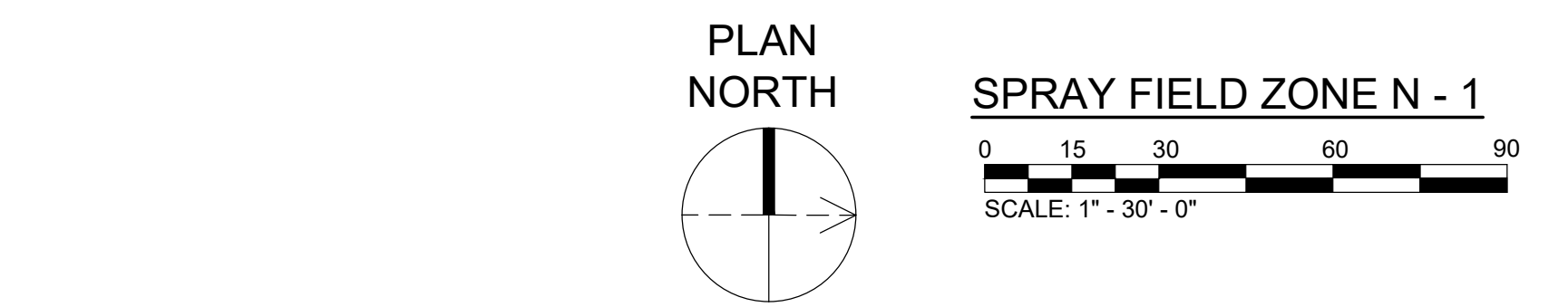
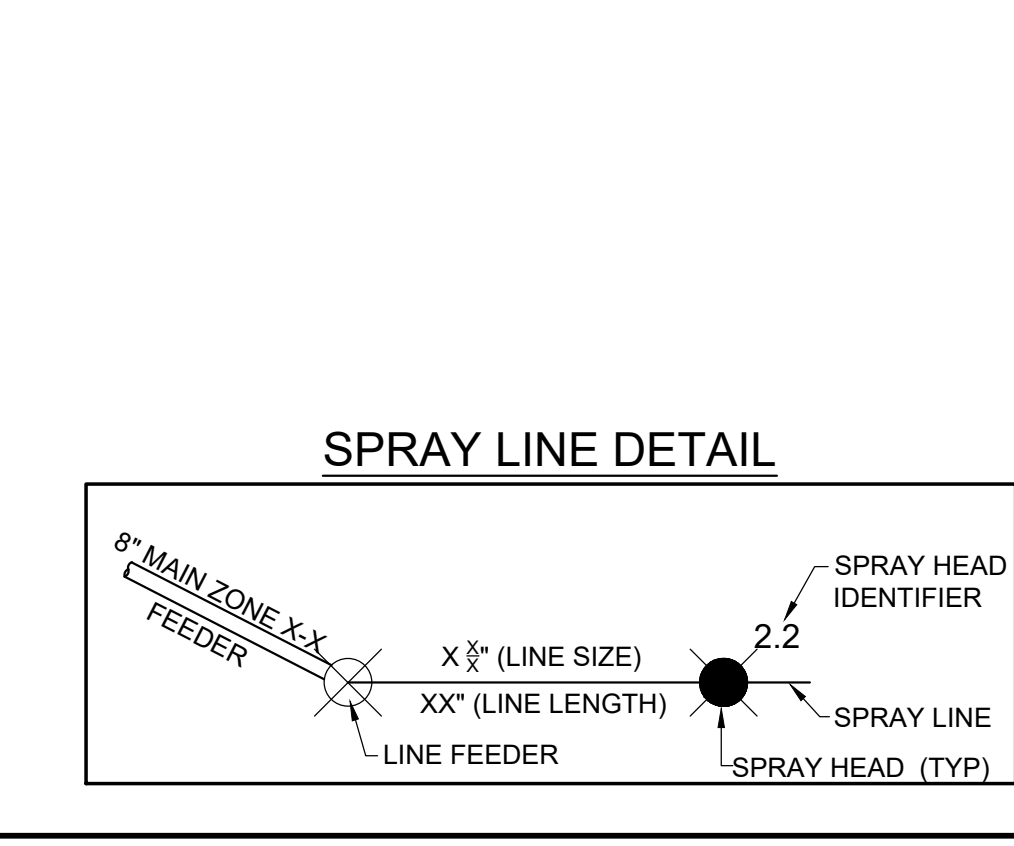
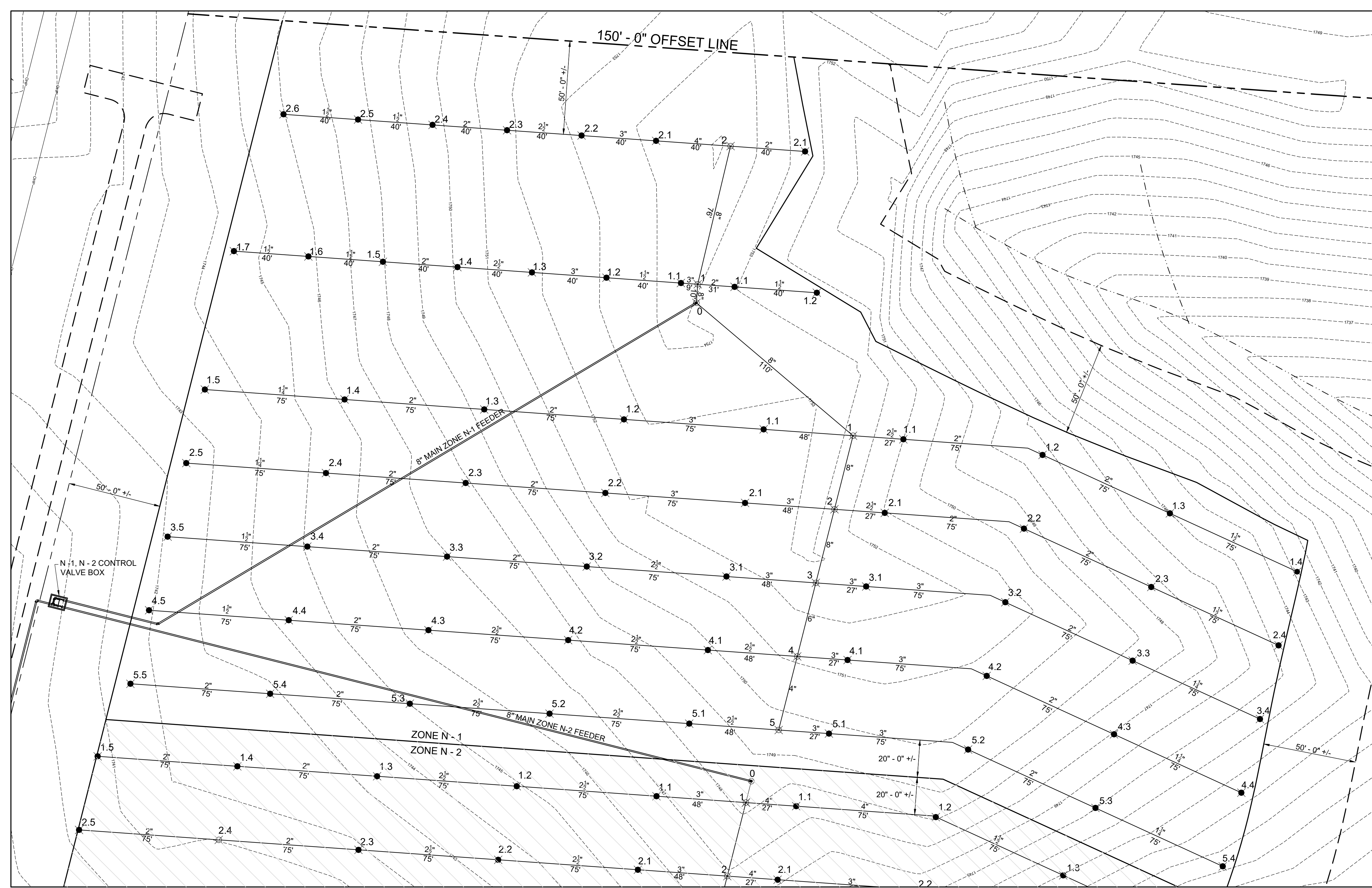
JOB NO.
N16003

ISSUE DATE
November 30, 2018

SCALE
1" = 100' - 0"

DRAWING NO.
M-1301

CTI PROJECT: N16003-01 (TN Dept. General Services TDEC) Bledsoe County Correctional Complex. DRAWING: CTI - M-1302 SPRAY FIELD ZONE N-1 (655393/18336/19_4.09PM). LAYOUT: ZONE N-1



NODE SUMMARY		Head	Coordinates	Fittings At Node		
Area	Line	Node	North	West	Inlet Reducer	Cross Tee Outlet
		Yes/No			in x in	in in x in
North 1 Zone						
East Header						
	0	N			-	8
1	N		511827.96	2187989.00	-	-
2	N		511818.00	2187928.40	-	8
3	N		511808.04	2187967.79	-	8
4	N		511798.08	2188007.18	6x4	4
5	N		511788.12	2188046.57	4x3	3
E-N-1						
1	N		511827.96	2187989.00	-	-
1.1	Y		511854.89	2187890.92	-	2
1.2	Y		511929.42	2187899.29	-	2
1.3	Y		511997.59	2187930.56	2x1.5	1.5
1.4	Y		512065.76	2187961.82	1.5x1	1
E-N-2						
2	N		511818.00	2187928.40	-	-
2.1	Y		511844.93	2187930.32	-	2.5
2.2	Y		511929.45	2187938.73	2.5x2	2
2.3	Y		511987.63	2187969.99	2x1.25	1.25
2.4	Y		512055.80	2188001.26	-	1.25
E-N-3						
3	N		511808.04	2187967.79	-	-
3.1	Y		511834.97	2187969.71	-	3
3.2	Y		511909.49	2187978.16	3x2	2
3.3	Y		511977.66	2188009.43	2x1.25	1.25
3.4	Y		512045.83	2188040.70	1.25x1	1
E-N-4						
4	N		511798.08	2188007.18	-	-
4.1	Y		511825.01	2188009.10	-	3
4.2	Y		511899.52	2188017.60	-	3
4.3	Y		511967.70	2188048.86	2x1.25	1.25
4.4	Y		512035.87	2188080.13	1.25x1	1
E-N-5						
5	N		511788.12	2188046.57	-	-
5.1	Y		511815.05	2188048.49	-	3
5.2	Y		511889.56	2188057.03	-	3
5.3	Y		511957.73	2188088.30	2x1.25	1.25
5.4	Y		512025.90	2188119.57	1.25x0.75	0.75
E-S-1						
1	N				-	-
1.1	Y		511780.08	2187885.59	-	3
1.2	Y		511705.27	2187880.26	3x2	2
1.3	Y		511630.46	2187874.92	-	2
1.4	Y		511555.65	2187869.59	2x1.25	1.25
1.5	Y		511480.84	2187864.26	-	1.25
E-S-2						
2	N		511818.00	2187928.40	-	-
2.1	Y		511770.12	2187924.98	-	3
2.2	Y		511695.31	2187919.65	3x2	2
2.3	Y		511620.50	2187914.32	-	2
2.4	Y		511545.69	2187908.98	2x1.25	1.25
2.5	Y		511470.88	2187903.65	-	1.25
E-S-3						
3	N		511808.04	2187967.79	-	-
3.1	Y		511760.16	2187964.37	3x2.5	2.5
3.2	Y		511685.35	2187959.04	-	2.5
3.3	Y		511610.54	2187953.71	-	2
3.4	Y		511535.73	2187948.37	-	2
3.5	Y		511460.92	2187943.04	1.5x0.75	0.75
E-S-4						
4	N		511798.08	2188007.18	-	-
4.1	Y		511750.20	2188003.77	3x2.5	2.5
4.2	Y		511675.39	2187998.43	-	2.5
4.3	Y		511600.58	2187993.10	-	2.5
4.4	Y		511525.77	2187987.77	-	2
4.5	Y		511450.96	2187982.43	1.5x0.75	0.75
E-S-5						
5	N		511788.12	2188046.57	-	-
5.1	Y		511740.24	2188043.16	3x2.5	2.5
5.2	Y		511665.43	2188037.82	-	2.5
5.3	Y		511590.62	2188032.49	-	2.5
5.4	Y		511515.81	2188027.16	-	2
5.5	Y		511441.00	2188018.82	2x1	1
West Header						
0	N		511744.06	2187817.86	-	-
1	N		511744.77	2187807.88	-	8
2	Y		511742.36	2187733.95	-	8
W-N-1						
1	N		511744.77	2187807.88	-	-
1.1	Y		511764.50	2187809.29	-	2
1.2	Y		511808.54	2187812.43	-	1.5
W-N-2						
2	N		511762.36	2187733.95	-	-
2.1	Y		511802.26	2187736.79	2x1.25	1.25
W-S-1						
1	N		511744.77	2187807.88	-	-
1.1	Y		511735.80	2187807.24	-	3
1.2	Y		511695.90	2187804.40	-	3
1.3	Y		511656.00	2187801.55	3x2.5	2.5
1.4	Y		511616.10	2187798.71	2.5x2	2
1.5	Y		511576.20	2187795.87	2x1.5	1.5
1.6	Y		511536.30	2187793.02	-	1.5
1.7	Y		511496.40	2187790.18	1.5x1.25	1.25
W-S-2						
2	N		511762.36	2187733.95	-	-
2.1	Y		511722.47	2187731.10	-	4
2.2	Y		511682.57	2187728.26	3x2.5	2.5
2.3	Y		511642.67	2187725.41	-	2.5
2.4	Y		511602.77	2187722.57	-	2
2.5	Y		511562.87	2187719.73	-	1.5
2.6	Y		511522.97	2187716.88	-	1.5

LEGEND	
	PROPERTY LINE
	150' - 0" OFFSET LINE
	ZONE BOUNDARY
	BUFFER EDGE LINE (SPRAY LIMITS)
	PVC POLYVINYL CHLORIDE PIPE
	DUCTILE IRON PIPE
	EXISTING CONTOUR LABEL
	EXISTING MINOR CONTOUR
	EXISTING MAJOR CONTOUR
	PROPOSED CONTOUR LABEL
	PROPOSED MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	OVERHEAD POWER LINES
	PROPOSED GRAVEL DRIVE
	WATER SURFACE OR DRAIN
	150' TVA EASEMENT

DESIGN			
PCC	DRAWN	CHECKED	APPROVED
	JRH	NH	PCC

REVISIONS			
NO.	DATE	BY	APPD.

WASTEWATER TREATMENT PLANT EXPANSION
BLEDSOE COUNTY CORRECTIONAL COMPLEX
PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

ENGINEERS, INC.
3354 PERMETER HILL DRIVE, SUITE 140
NASHVILLE, TN 37211
615-834-8900

PAUL C. CATE
REGISTERED ENGINEER
No. 11882
STATE OF TENNESSEE

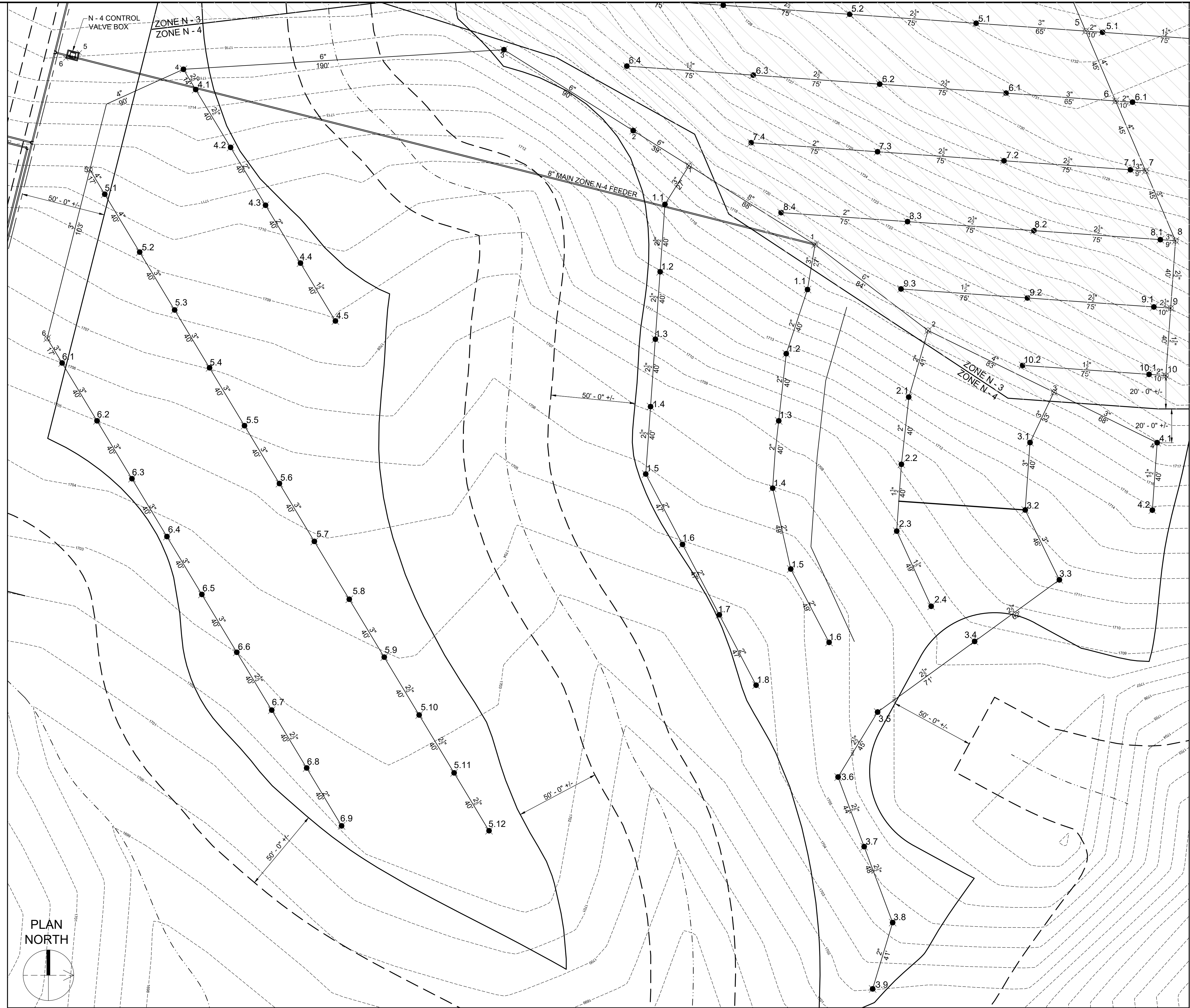
JOB NO.
N16003

ISSUE DATE
November 30, 2018

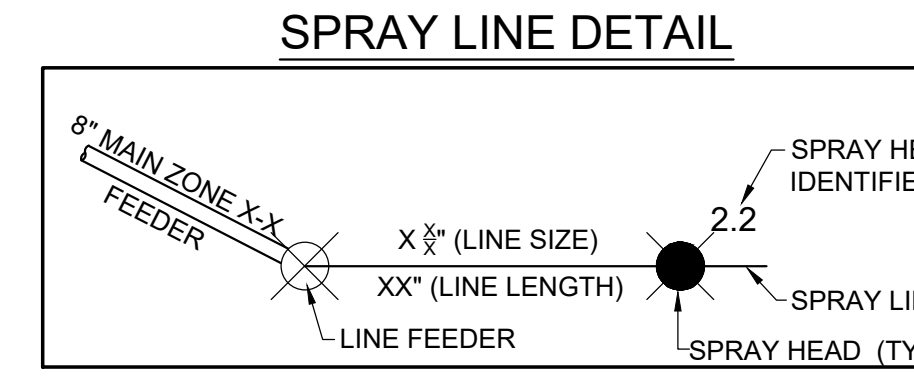
SCALE
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DRAWING NO.
M-1302

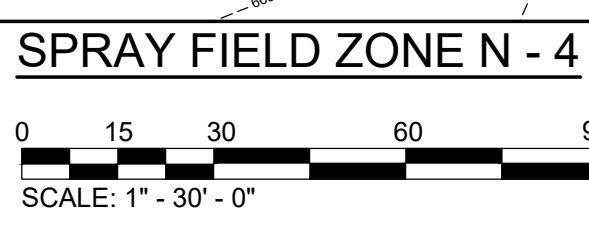
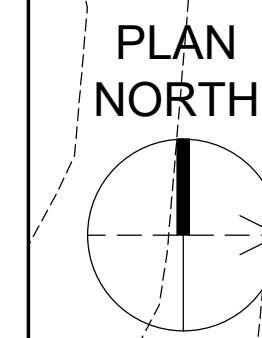
CTI PROJECT: N16003-01 (TN Dept. General Services TDEC) Bledsoe County Correctional Complex, DRAWING: CTI-M-1305 SPRAY FIELD ZONE N-4 (5/25/2019 2:09PM), LAYOUT: ZONE N-4



NODE SUMMARY		Head	Coordinates		Fittings At Node			Outlet
Area	Line	Node	Yes/No	North	West	Inlet Reducer	Cross Tee	Reducer in x in
North 4 Zone								
North Header								
	0	N		511629.47	2188708.09	-	-	8
	1	N		511676.92	2188737.83	-	-	8
	2	N		511743.75	2188788.72	-	-	6
	3	N		511818.29	2188825.23	-	-	4
	4	N		511879.33	2188855.10	-	-	3
N-1								
	1	N		511676.92	2188737.83	-	-	8x3
	1.1	Y		511672.43	2188764.45	3x2	-	2
	1.2	Y		511659.85	2188802.47	-	-	2
	1.3	Y		511655.49	2188942.17	-	-	2
	1.4	Y		511651.82	2188882.01	-	-	2
	1.5	Y		511662.50	2188929.83	-	-	2
	1.6	Y		511685.20	2188971.26	-	-	2
N-2								
	2	N		511743.75	2188788.72	-	-	6x2
	2.1	Y		511732.33	2188828.09	-	-	2
	2.2	Y		511727.99	2188867.88	2x1.5	-	1.5
	2.3	Y		511725.22	2188907.41	-	-	1.5
	2.4	Y		511745.62	2188951.90	-	-	1.5
N-3								
	3	N		511818.29	2188825.23	-	-	4x3
	3.1	Y		511804.10	2188855.02	-	-	3
	3.2	Y		511801.26	2188894.92	-	-	3
	3.3	Y		511821.45	2188936.25	3x2.5	-	2.5
	3.4	Y		511771.29	2188972.68	-	-	2.5
	3.5	Y		511713.92	2189014.51	-	-	2.5
	3.6	Y		511690.52	2189052.95	-	-	2.5
	3.7	Y		511705.97	2189094.15	-	-	2.5
	3.8	Y		511722.82	2189139.10	-	-	2.5
	3.9	Y		511710.99	2189178.35	2x1.25	-	1.25
N-4								
	4	N		511879.33	2188855.10	-	-	-
	4.1	Y		511879.33	2188855.10	-	-	3x1.5
	4.2	Y		511876.49	2188895.00	1.5x1	-	1
South Header								
	1	N		511602.13	2188690.98	8x6	-	6
	2	Y		511588.29	2188707.41	-	-	6
	3	Y		511492.80	2188727.52	-	-	6
	4	N		511303.15	2188634.10	-	-	6
	5	N		511247.80	2188693.49	-	-	4
	6	N		511222.57	2188793.35	-	-	3
S-1								
	1	N		511602.13	2188690.98	-	-	6x3
	1.1	Y		511588.09	2188714.04	3x2.5	-	2.5
	1.2	Y		511585.24	2188753.93	-	-	2.5
	1.3	Y		511580.40	2188793.83	-	-	2.5
	1.4	Y		511579.55	2188833.73	-	-	2.5
	1.5	Y		511576.71	2188873.63	2.5x2	-	2
	1.6	Y		511568.48	2188915.28	-	-	2
	1.7	Y		511620.25	2188956.94	-	-	2
	1.8	Y		511642.02	2188998.59	-	-	2
S-4								
	4	N		511303.15	2188634.10	-	-	6x2.5
	4.1	Y		511310.38	2188664.08	-	-	2.5
	4.2	Y		511313.06	2188698.33	2.5x2	-	2
	4.3	Y		511351.73	2188714.57	-	-	2
	4.4	Y		511372.40	2188748.81	2x1.5	-	1.5
	4.5	Y		511393.07	2188783.06	1.5x1	-	1
S-5								
	5	N		511247.80	2188693.49	-	-	-
	5.1	Y		511256.58	2188708.04	-	-	4
	5.2	Y		511277.26	2188742.29	4x3	-	3
	5.3	Y		511297.93	2188776.53	-	-	3
	5.4	Y		511318.60	2188810.77	-	-	3
	5.5	Y		511339.27	2188845.02	-	-	3
	5.6	Y		511359.95	2188879.26	-	-	3
	5.7	Y		511380.62	2188913.51	-	-	3
	5.8	Y		511401.29	2188947.75	-	-	3
	5.9	Y		511421.96	2188981.99	3x2.5	-	2.5
	5.10	Y		511442.64	2189016.24	-	-	2.5
	5.11	Y		511463.31	2189050.48	-	-	2.5
	5.12	Y		511483.98	2189084.73	-	-	2.5
S-6								
	6	N		511222.57	2188793.35	-	-	-
	6.1	Y		511231.36	2188807.91	-	-	3
	6.2	Y		511252.03	2188842.15	-	-	3
	6.3	Y		511272.70	2188876.39	-	-	3
	6.4	Y		511293.37	2188910.64	-	-	3
	6.5	Y		511314.05	2188944.88	-	-	3
	6.6	Y		511334.72	2188979.13	3x2.5	-	2.5
	6.7	Y		511355.39	2189013.37	-	-	2.5
	6.8	Y		511376.06	2189047.61	2.5x2	-	2
	6.9	Y		511396.74	2189081.86	2x1.5	-	1.5



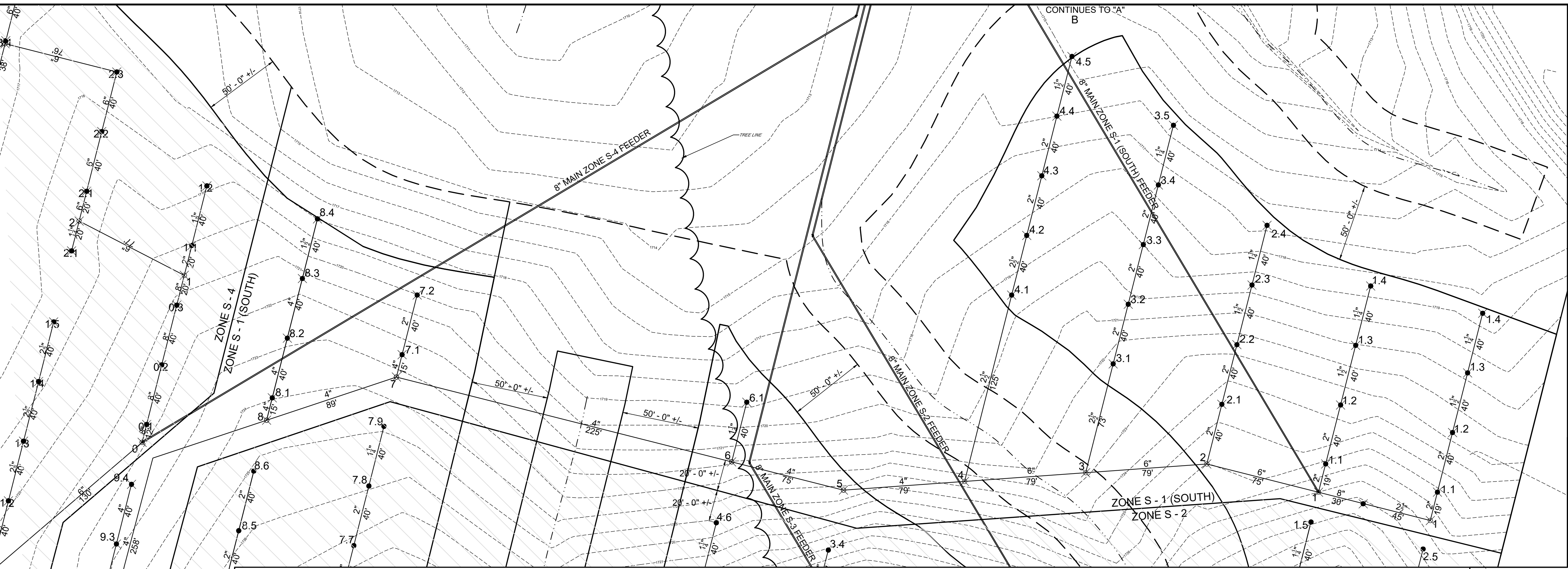
LEGEND	
---	PROPERTY LINE
---	150' - 0" OFFSET LINE
---	ZONE BOUNDARY
---	BUFFER EDGE LINE (SPRAY LIMITS)
PVC	POLYVINYL CHLORIDE PIPE
DIP	DUCTILE IRON PIPE
#####	EXISTING CONTOUR LABEL
----	EXISTING MINOR CONTOUR
----	EXISTING MAJOR CONTOUR
#####	PROPOSED CONTOUR LABEL
----	PROPOSED MINOR CONTOUR
----	PROPOSED MAJOR CONTOUR
----	OVERHEAD POWER LINES
----	PROPOSED GRAVEL DRIVE
----	WATER SURFACE OR DRAIN
----	150' TVA EASEMENT



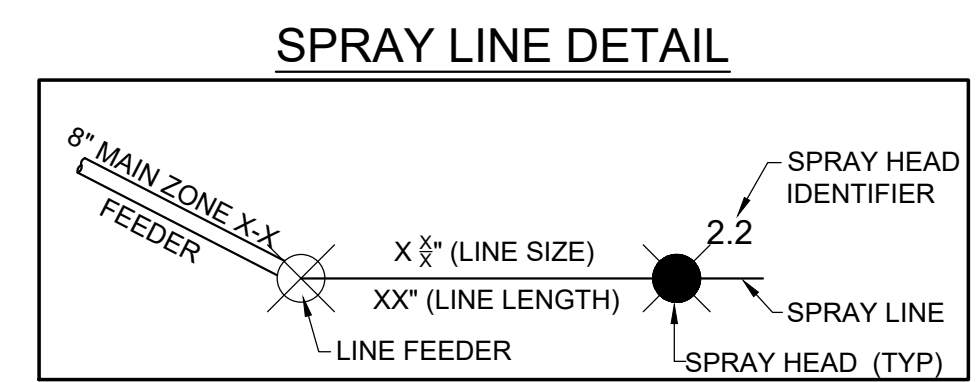
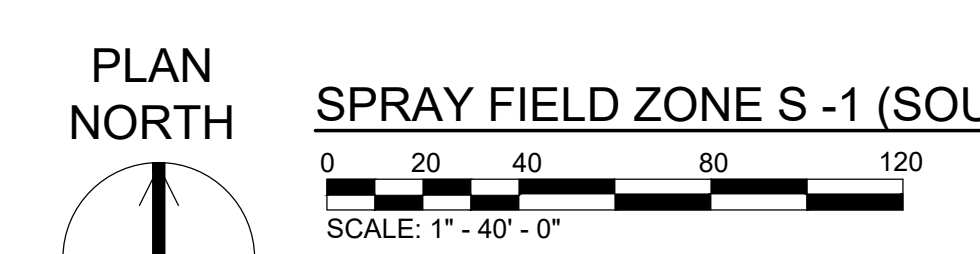
DESIGN		PCC		DRAWN		JRH		CHECKED		INH		APPROVED		PCC	
REVISIONS		DATE		BY		APPD		DESCRPTIONS							
WASTEWATER TREATMENT PLANT EXPANSION BLEDSOE COUNTY CORRECTIONAL COMPLEX PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06															
ENGINEERS, INC. 3334 PERMETER HILL DRIVE, SUITE 140 NASHVILLE, TN 37211 615-834-8900															
PAUL C. CATE REGISTERED ENGINEER STATE OF TENNESSEE No. 1980															
JOB NO. N16003															
ISSUE DATE November 30, 2018															
SCALE 1" = 30' - 0"															
DRAWING NO. M-1305															
SPRAY FIELD ZONE N - 4															

CTI PROJECT: N16003-01 (TN Dept. General Services (TDEC) Bledsoe County Correctional Complex, DRAWING: CTI - M-1306 SPRAY FIELD ZONE S-1 (SOUTH) LAYOUT - ZONE S-1

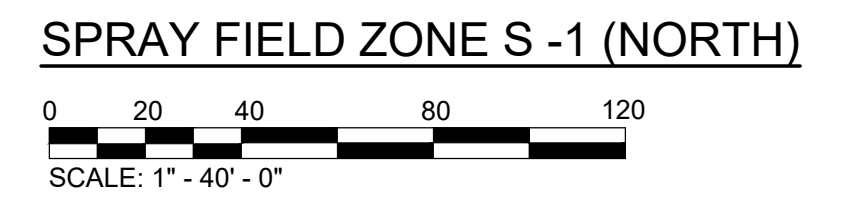
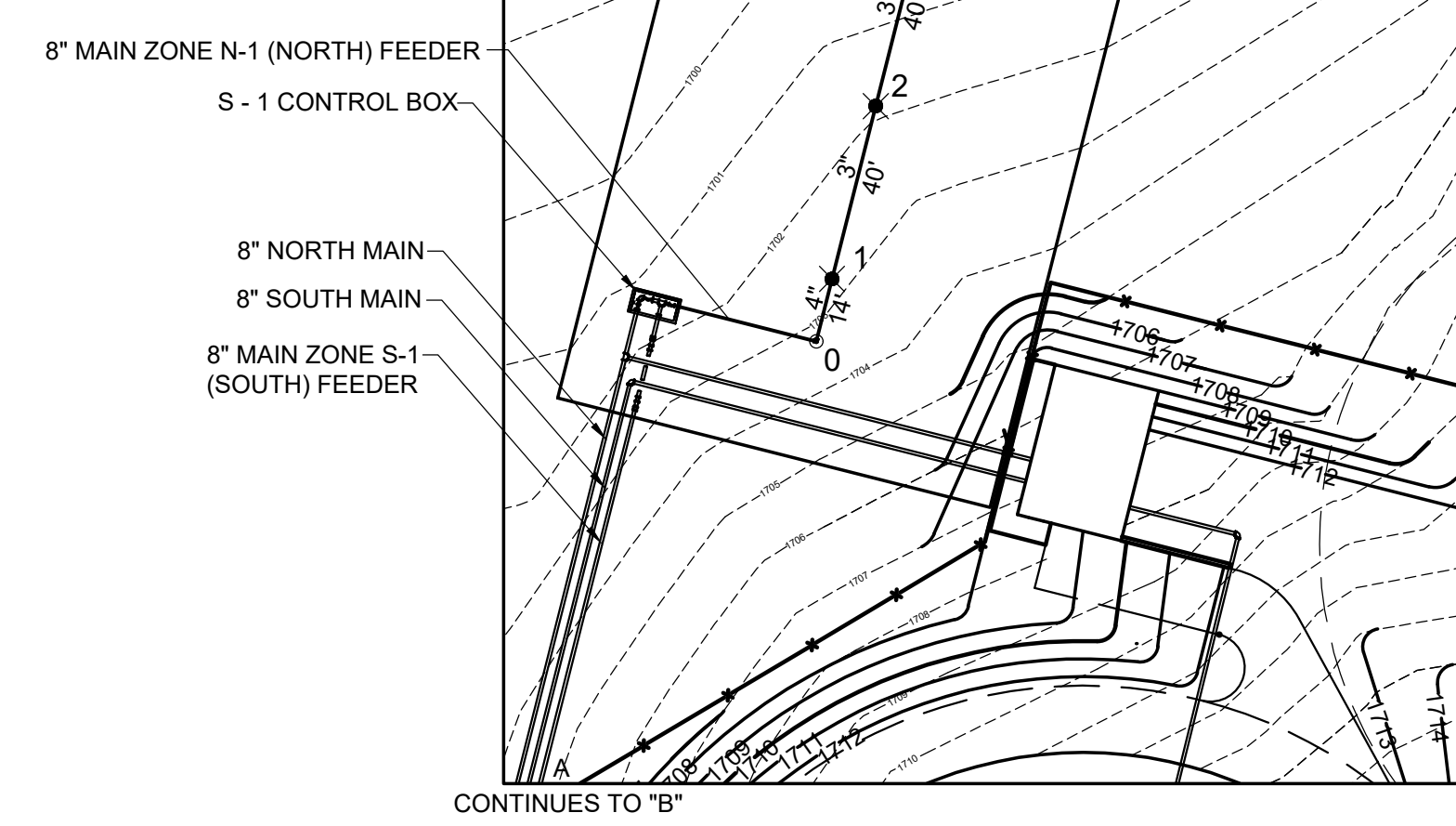
DATE OF PRINT: 3/14/2019 4:06 PM



NODE SUMMARY		Node	Head Yes/No	Coordinates		Fittings At Node			Outlet Reducer in x in
Area	Line			North	West	Inlet Reducer in x in	Cross in	Te in	
North 4 Zone									
North Feeder									
	0	N	511209.96	2189817.01	-	-	8	8x4	
	1	Y	511239.04	2189824.36	4x3	-	3	-	
	2	Y	511277.62	2189824.17	-	-	3	-	
	3	Y	511316.60	2189843.97	-	-	3	3x2.5	
	4	Y	511355.38	2189853.78	-	-	2.5	-	
	5	Y	511394.16	2189863.58	-	-	2.5	-	
	6	Y	511432.94	2189873.39	-	-	2.5	-	
	7	Y	511471.72	2189883.19	-	-	2.5	-	
	8	Y	511510.50	2189893.00	-	-	2.5	-	
	9	Y	511549.28	2189902.80	-	-	2.5	-	
E-1									
	0	N	510304.60	2189951.08	-	-	8	8x2.5	
	1	N	510293.73	2189949.74	-	-	2.5	2x2.5	
	1.1	Y	510312.15	2189999.40	-	-	2	-	
	1.2	Y	510350.93	2190009.21	-	-	2	2x1.5	
	1.3	Y	510389.71	2190019.01	-	-	1.5	1.5x1.25	
	1.4	Y	510428.49	2190028.82	-	-	1.25	-	
West Header									
	0	N	510304.60	2189951.08	-	-	8	-	
	1	N	510312.12	2189922.03	8x6	-	6	-	
	2	Y	510330.51	2189949.31	-	-	6	-	
	3	N	510324.79	2189770.52	-	-	6	-	
	4	N	510319.12	2189691.72	6x4	-	4	-	
	5	Y	510313.47	2189612.93	-	-	4	-	
	6	Y	510331.86	2189540.21	-	-	4	-	
	7	N	510307.01	2189322.08	-	-	4	-	
	8	N	510358.95	2189237.62	-	-	4	-	
	9	Y	510162.14	2189110.50	-	-	4	-	
W-1									
	1	N	510293.73	2189994.74	-	-	8	8x2	
	1.1	Y	510330.54	2189966.69	-	-	2	-	
	1.2	Y	510368.82	2189936.37	2x1.5	-	1.5	-	
	1.3	Y	510407.60	2189946.18	1.5x1.25	-	1.25	-	
	1.4	Y	510446.21	2189955.94	1.25x1	-	1	-	
W-2									
	2	N	510330.51	2189849.31	-	-	6	6x2	
	2.1	Y	510369.28	2189859.13	-	-	2	-	
	2.2	Y	510408.06	2189868.93	-	-	2	2x1.5	
	2.3	Y	510446.84	2189878.74	-	-	1.5	1.5x1.25	
	2.4	Y	510485.62	2189888.54	-	-	1.25	-	
W-3									
	3	N	510324.79	2189770.52	-	-	6	6x2.5	
	3.1	Y	510395.57	2189788.41	2.5x2	-	2	-	
	3.2	Y	510434.35	2189798.22	-	-	2	-	
	3.3	Y	510473.13	2189808.02	-	-	2	-	
	3.4	Y	510511.91	2189817.83	-	-	2	2x1.25	
	3.5	Y	510550.68	2189827.63	-	-	1.25	-	
W-4									
	4	N	510319.12	2189691.72	-	-	6	6x2.5	
	4.1	Y	510440.31	2189722.36	-	-	2.5	-	
	4.2	Y	510479.09	2189732.17	-	-	2.5	2.5x2	
	4.3	Y	510517.87	2189741.98	-	-	2	-	
	4.4	Y	510556.65	2189751.78	2x1.5	-	1.5	-	
	4.5	Y	510595.42	2189761.59	1.5x1	-	1	-	
W-5									
	5	Y	510313.47	2189612.93	-	-	-	-	
W-6									
	6	Y	510331.86	2189540.21	-	-	-	4x1.25	
	6.1	Y	510370.64	2189550.03	1.25x0.75	-	0.75	-	
W-7									
	7	N	510307.01	2189322.08	-	-	4	-	
	7.1	Y	510401.56	2189325.77	-	-	4	4x2	
	7.2	Y	510440.34	2189335.57	2x1.5	-	1.5	-	
W-8									
	8	N	510358.95	2189237.62	-	-	-	-	
	8.1	Y	510373.50	2189241.31	-	-	4	-	
	8.2	Y	510412.28	2189251.11	-	-	4	-	
	8.3	Y	510451.06	2189260.92	-	-	4	4x1.5	
	8.4	Y	510489.84	2189270.72	1.5x0.75	-	0.75	-	
W-9									
	9	Y	510162.14	2189110.50	-	-	-	-	
	9.1	Y	510300.92	2189120.31	-	-	4	-	
	9.2	Y	510339.70	2189130.11	-	-	4	-	
	9.3	Y	510278.48	2189139.92	-	-	4	-	
	9.4	Y	510317.25	2189149.73	-	-	4	-	



- LEGEND**
- PROPERTY LINE
 - - - 150' - 0" OFFSET LINE
 - ZONE BOUNDARY
 - - - BUFFER EDGE LINE (SPRAY LIMITS)
 - PVC --- POLYVINYL CHLORIDE PIPE
 - DIP --- DUCTILE IRON PIPE
 - #### EXISTING CONTOUR LABEL
 - - - EXISTING MINOR CONTOUR
 - - - EXISTING MAJOR CONTOUR
 - #### PROPOSED CONTOUR LABEL
 - - - PROPOSED MINOR CONTOUR
 - - - PROPOSED MAJOR CONTOUR
 - OVERHEAD POWER LINES
 - - - PROPOSED GRAVEL DRIVE
 - - - WATER SURFACE OR DRAIN
 - - - 150' TVA EASEMENT



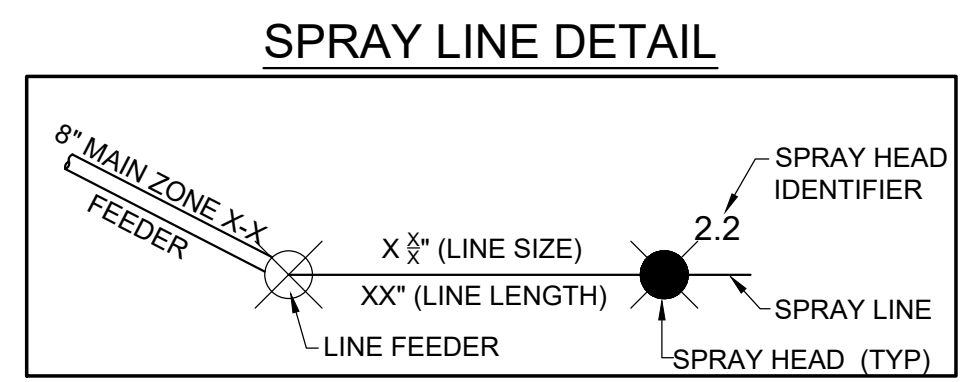
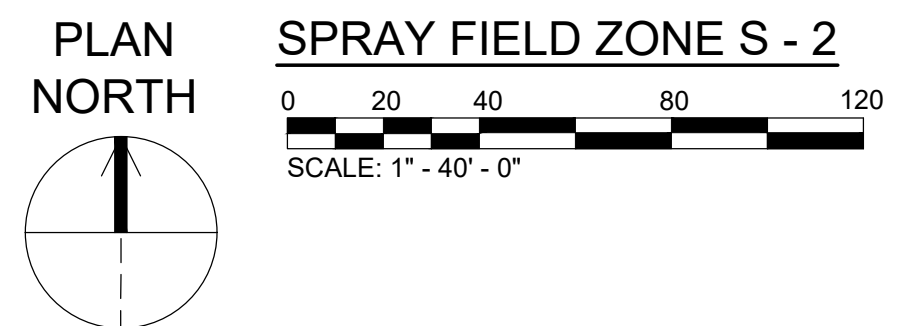
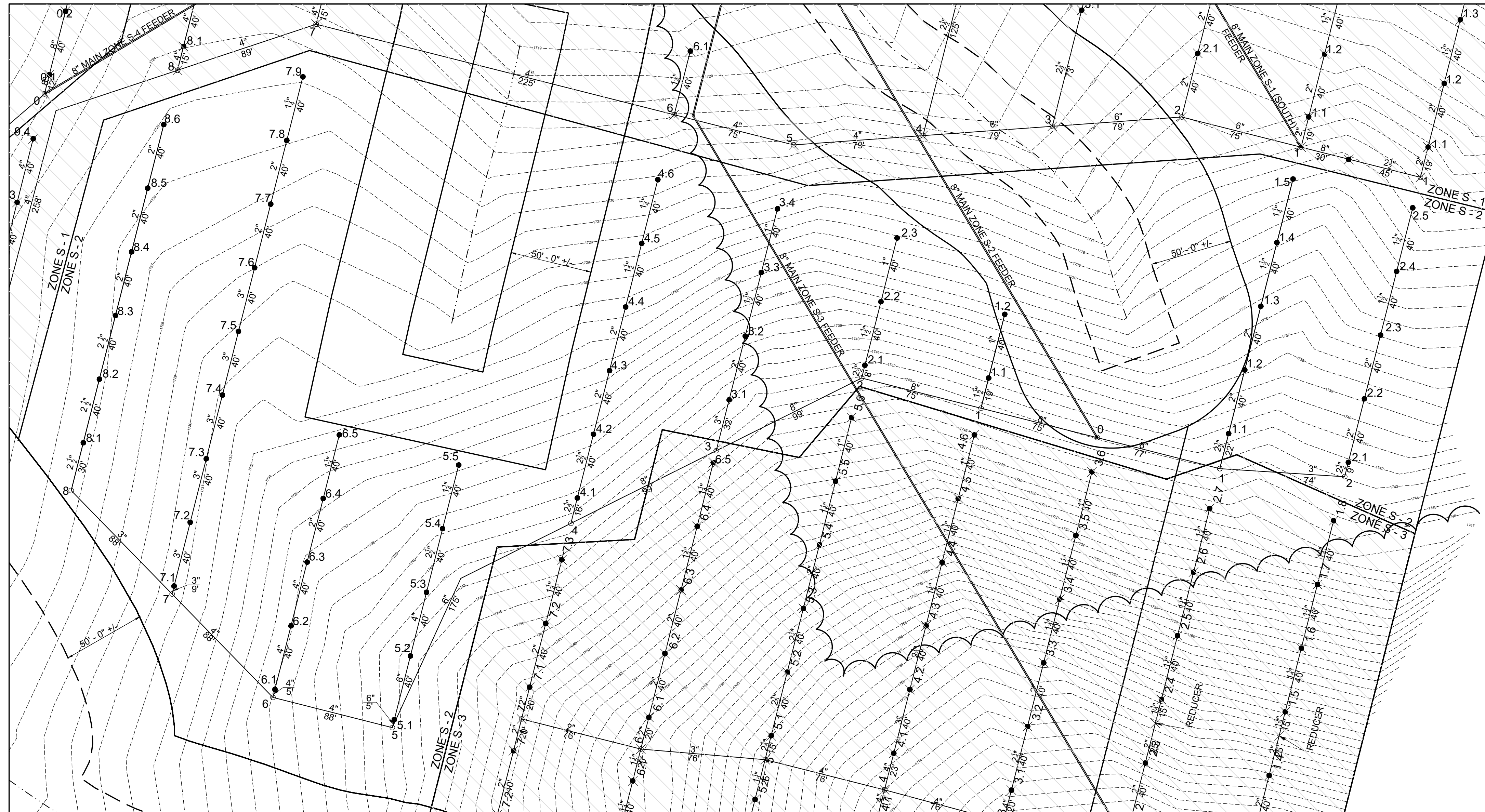
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DRAWN	JRH	DATE	BY
CHECKED	NH		APPD
APPROVED	PCC		

WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

ENGINEERS, INC.
 3354 PERMIER HILL DRIVE, SUITE 140
 NASHVILLE, TN 37211
 615-834-8500

PAUL C. CATE
 REGISTERED ENGINEER
 STATE OF TENNESSEE
 NO. 11663

JOB NO.
 N16003
 ISSUE DATE
 November 30, 2018
 SCALE
 1" = 40' - 0"
 DRAWING NO.
 M-1306



NODE SUMMARY		Node	Head Yes/No	Coordinates		Fittings at Node		
Area	Line			North	West	Inlet Reducer in/in	Cross in	Outlet Reducer in/in
South-2 Zone								
East Header								
	1	N	510115.14	2189797.86	-	-	-	-
	2	N	510111.33	2189948.62	3x2.5	-	2.5	-
E-1								
	1	N	510116.27	2189872.51	-	-	-	8x2.5
	1.1	Y	510137.60	2189877.91	2.5x2	-	-	2
	1.2	Y	510235.98	2189877.91	-	-	-	2
	1.3	Y	510215.16	2189897.52	2x1.5	-	-	1.5
	1.4	Y	510253.93	2189907.32	1.5x1.25	-	-	1.25
	1.5	Y	510292.71	2189917.13	1.25x1	-	-	1
E-2								
	2	N	510111.33	2189948.62	-	-	-	3x2.5
	2.1	Y	510120.05	2189950.83	-	-	-	2.5
	2.2	Y	510158.83	2189960.63	-	-	-	2
	2.3	Y	510197.61	2189970.44	2x1.5	-	-	1.5
	2.4	Y	510236.99	2189980.24	1.5x1.25	-	-	1.25
	2.5	Y	510275.17	2189990.05	1.25x1	-	-	1
West Header								
	0	N	510135.14	2189797.86	-	-	-	-
	1	N	510115.27	2189772.10	-	-	-	8
	2	N	510171.42	2189654.38	-	-	-	8
	3	N	510127.16	2189565.83	-	-	-	8
	4	N	510082.89	2189477.27	8x6	-	-	6
	5	N	509958.49	2189368.46	-	-	-	6x4
	6	N	509576.87	2189295.74	-	-	-	4
	7	N	510039.89	2189234.32	4x3	-	-	3
	8	N	510102.90	2189172.89	3x2.5	-	-	2.5
W-1								
	1	N	510153.04	2189777.10	-	-	-	8x1.5
	1.1	Y	510171.46	2189731.75	1.5x1.25	-	-	1.25
	1.2	Y	510210.24	2189741.55	-	-	-	1
W-2								
	2	N	510171.42	2189654.38	-	-	-	8x2.5
	2.1	Y	510179.18	2189654.38	2.5x2	-	-	2x1.5
	2.2	Y	510217.96	2189666.15	1.5x1	-	-	1
	2.3	Y	510256.74	2189675.95	-	-	-	1
W-3								
	3	N	510127.16	2189565.83	-	-	-	8x3
	3.1	Y	510158.18	2189573.67	3x2.5	-	-	2.5x2
	3.2	Y	510196.96	2189583.48	2x1.5	-	-	1.5
	3.3	Y	510235.74	2189593.28	1.5x1	-	-	1
	3.4	Y	510274.52	2189603.09	-	-	-	1
W-4								
	4	N	510082.89	2189477.27	-	-	-	6x2.5
	4.1	Y	510088.40	2189481.20	-	-	-	2.5
	4.2	Y	510137.18	2189491.00	2.5x2	-	-	2
	4.3	Y	510175.96	2189500.81	-	-	-	2
	4.4	Y	510214.74	2189510.61	2x1.5	-	-	1.5
	4.5	Y	510253.52	2189520.42	1.5x1.25	-	-	1.25
	4.6	Y	510292.30	2189530.22	1.25x1.0	-	-	0.75
W-5								
	5	N	509958.49	2189368.46	-	-	-	-
	5.1	Y	509953.33	2189369.68	-	-	-	6
	5.2	Y	510002.11	2189379.49	-	-	-	6x4
	5.3	Y	510040.89	2189389.29	-	-	-	4x2.5
	5.4	Y	510079.67	2189399.10	2.5x1.5	-	-	1.5
	5.5	Y	510118.45	2189408.90	1.25x1	-	-	1
W-6								
	6	Y	509976.87	2189295.74	-	-	-	-
	6.1	Y	509981.77	2189296.97	-	-	-	4
	6.2	Y	510003.50	2189305.78	-	-	-	4
	6.3	Y	510059.28	2189316.58	-	-	-	4x2
	6.4	Y	510088.06	2189326.39	2x1.25	-	-	1.25
	6.5	Y	510136.84	2189336.19	1.25x1	-	-	1
W-7								
	7	N	510039.89	2189234.32	-	-	-	4x3
	7.1	Y	510044.73	2189235.54	-	-	-	3
	7.2	Y	510083.51	2189245.35	-	-	-	3
	7.3	Y	510122.29	2189255.15	-	-	-	3
	7.4	Y	510161.07	2189264.96	-	-	-	3
	7.5	Y	510199.85	2189274.77	-	-	-	3
	7.6	Y	510238.63	2189284.57	3x2.5	-	-	2.5x2
	7.7	Y	510277.41	2189294.38	-	-	-	2
	7.8	Y	510316.19	2189304.18	2x1.25	-	-	1.25
	7.9	Y	510354.97	2189313.99	1.25x1	-	-	1
W-8								
	8	N	510102.90	2189172.89	-	-	-	-
	8.1	Y	510111.98	2189180.24	-	-	-	2.5
	8.2	Y	510120.76	2189189.05	-	-	-	2.5
	8.3	Y	510209.54	2189199.86	2.5x2	-	-	2
	8.4	Y	510248.32	2189209.66	-	-	-	2
	8.5	Y	510287.10	2189219.47	-	-	-	2
	8.6	Y	510325.88	2189229.27	-	-	-	2

LEGEND

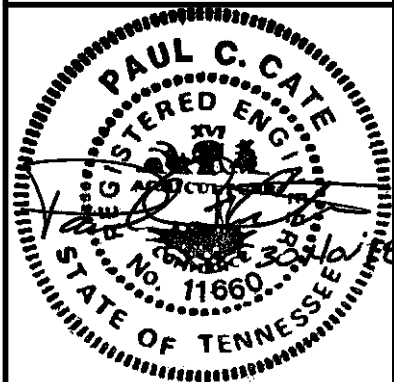
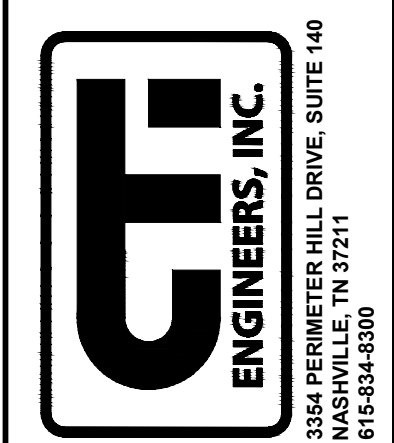
- PROPERTY LINE
- - - 150' - 0" OFFSET LINE
- - - ZONE BOUNDARY
- - - BUFFER EDGE LINE (SPRAY LIMITS)
- PVC POLYVINYL CHLORIDE PIPE
- DIP DUCTILE IRON PIPE
- ##### EXISTING CONTOUR LABEL
- - - EXISTING MINOR CONTOUR
- - - EXISTING MAJOR CONTOUR
- ##### PROPOSED CONTOUR LABEL
- - - PROPOSED MINOR CONTOUR
- - - PROPOSED MAJOR CONTOUR
- - - OVERHEAD POWER LINES
- - - PROPOSED GRAVEL DRIVE
- - - WATER SURFACE OR DRAIN
- - - 150' TVA EASEMENT

REVISIONS

NO.	DATE	BY	APPD	DESCRIPTIONS

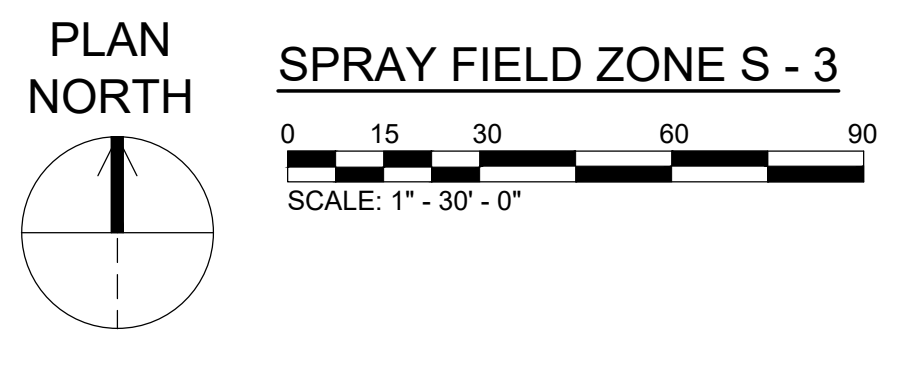
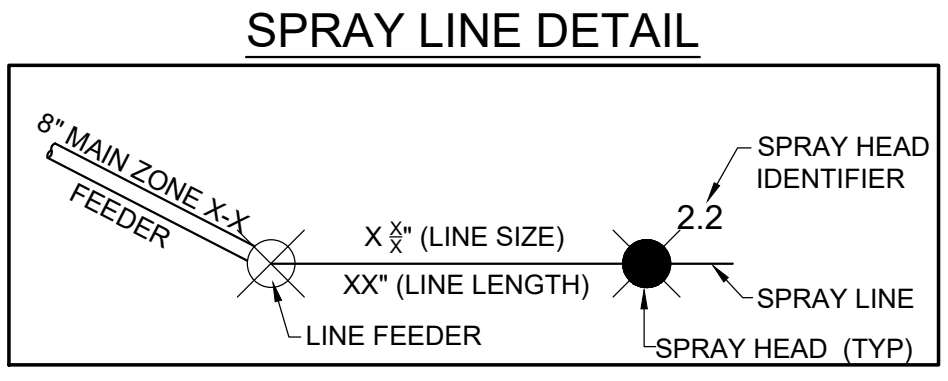
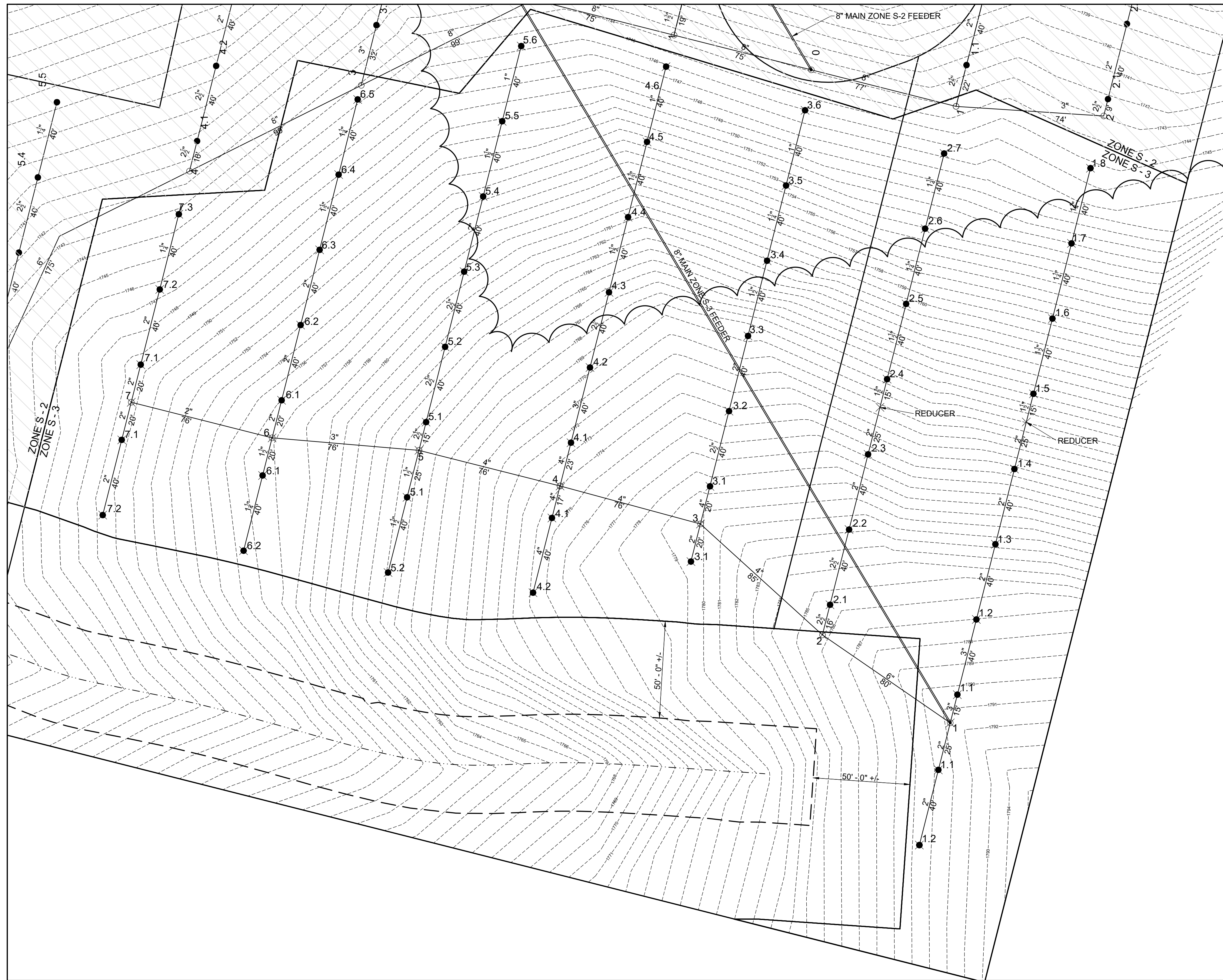
DESIGN PCC
 DRAWN JRH
 CHECKED INH
 APPROVED PCC

**WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX**
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06



JOB NO. N16003
 ISSUE DATE November 30, 2018
 SCALE 1" = 30' - 0"
 DRAWING NO. M-1307

DATE OF PRINT: 3/14/2019 4:09 PM
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NODE SUMMARY		Head	Coordinates		Fittings At Node			Outlet	
Area	Line	Node	Yes/No	North	West	Inlet Reducer	Cross In	Tea In	Reducer In x in
South 3 Zone									
West Header									
	0	N						8	
	1	N		509798.43	2189865.51		8		8x6
	2	N		509841.81	2189803.63	6x4		4	
	3	N		509900.99	2189740.72		4		
	4	N		509920.57	2189668.33			4	
	5	N		509938.96	2189595.59	4x3		3	
	6	N		509945.37	2189519.87	3x2		2	
	7	N		509963.73	2189447.24			2	
N-1									
	1	N		509798.43	2189865.51				8x3
	1.1	Y		509812.98	2189873.18			3	
	1.2	Y		509851.76	2189882.99			3	3x2
	1.3	Y		509890.54	2189892.79			2	
	1.4	Y		509929.31	2189920.60			2	
	1.4A	N		509953.55	2189908.73				2x1.5
	1.5	Y		509968.09	2189912.40			1.5	
	1.6	Y		510006.87	2189922.21			1.5	1.5x1.25
	1.7	Y		510045.65	2189932.01			1.25	
	1.8	Y		510084.43	2189941.82	1.25x0.75		0.75	
N-2									
	2	N		509841.81	2189803.63				6x2.5
	2.1	Y		509895.32	2189817.54			2.5	
	2.2	Y		509948.10	2189831.34			2.5	2.5x2
	2.3	Y		509996.88	2189847.14			2	
	2.3A	N		509961.12	2189833.28				2x1.5
	2.4	Y		509975.66	2189836.95			1.5	
	2.5	Y		510014.44	2189846.75			1.5	1.5x1.25
	2.6	Y		510053.22	2189856.56			1.25	
	2.7	Y		510092.00	2189866.37	1.25x0.75		0.75	
N-3									
	3	N		509900.99	2189740.72				
	3.1	Y		509920.57	2189745.63	4x2.5		2.5	
	3.2	Y		509959.16	2189754.44			2.5	2.5x2
	3.3	Y		509997.94	2189763.24			2	2x1.5
	3.4	Y		510036.71	2189772.06			1.5	1.5x1.25
	3.5	Y		510075.49	2189780.86			1.25	1.25x1
	3.6	Y		510114.27	2189789.67			1	
N-4									
	4	N		509920.57	2189668.33				
	4.1	Y		509942.87	2189673.95			4	4x3
	4.2	Y		509961.65	2189683.76			3	3x2.5
	4.3	Y		510000.43	2189693.58	2.5x2		2	2x1.5
	4.4	Y		510059.20	2189703.39			1.5	
	4.5	Y		510097.99	2189713.18	1.5x1		1	
	4.6	Y		510136.77	2189722.98			1	
N-5									
	5	N		509938.96	2189595.59				4x2.5
	5.1	Y		509953.50	2189599.26			2.5	
	5.2	Y		509992.28	2189609.07			2.5	2.5x2
	5.3	Y		510031.06	2189618.87			2	
	5.4	Y		510069.84	2189628.68	2x1.5		1.5	
	5.5	Y		510108.62	2189638.48	1.5x1		1	
	5.6	Y		510147.40	2189648.29			1	
N-6									
	6	N		509945.37	2189519.87				3x2
	6.1	Y		509964.76	2189524.76			2	
	6.2	Y		510003.54	2189534.56			2	
	6.3	Y		510042.32	2189544.37	2x1.5		1.5	
	6.4	Y		510081.10	2189554.18	1.5x1.25		1.25	
	6.5	Y		510119.88	2189563.98	1.25x0.75		0.75	
N-7									
	7	N		509963.73	2189447.24				
	7.1	Y		509983.13	2189452.14			2	
	7.2	Y		510021.91	2189461.94	2x1.25		1.25	
	7.3	Y		510060.68	2189471.75	1.25x0.75		0.75	
S-1									
	1	N		509798.43	2189865.51				6x2
	1.1	Y		509774.20	2189863.37			2	
	1.2	Y		509755.42	2189853.57	2x1		1	
S-3									
	3	Y		509900.99	2189740.72				4.2
	3.1	Y		509881.60	2189735.82			2	
S-4									
	4	N		509920.57	2189668.33				
	4.1	Y		509904.09	2189664.15			4	
	4.2	Y		509885.55	2189654.39			4	
S-5									
	5	Y		509938.96	2189595.59				3x1.5
	5.1	Y		509914.72	2189589.46			1.5	
	5.2	Y		509875.95	2189579.65			1.5	
S-6									
	6	Y		509945.37	2189519.87				2x1.5
	6.1	Y		509925.98	2189514.95	1.5x1.5		1.25	
	6.2	Y		509887.20	2189505.15			1.25	
S-7									
	7	N		509963.73	2189447.24				
	7.1	Y		509944.25	2189442.33			2	
	7.2	Y		509905.57	2189432.52	2x1.25		1.25	

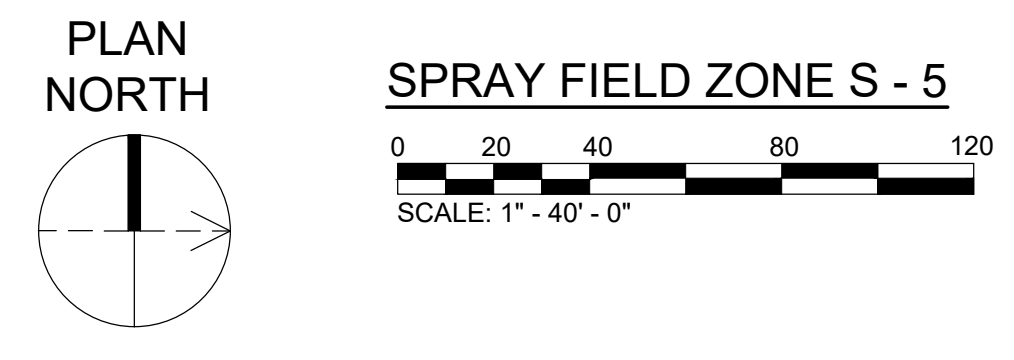
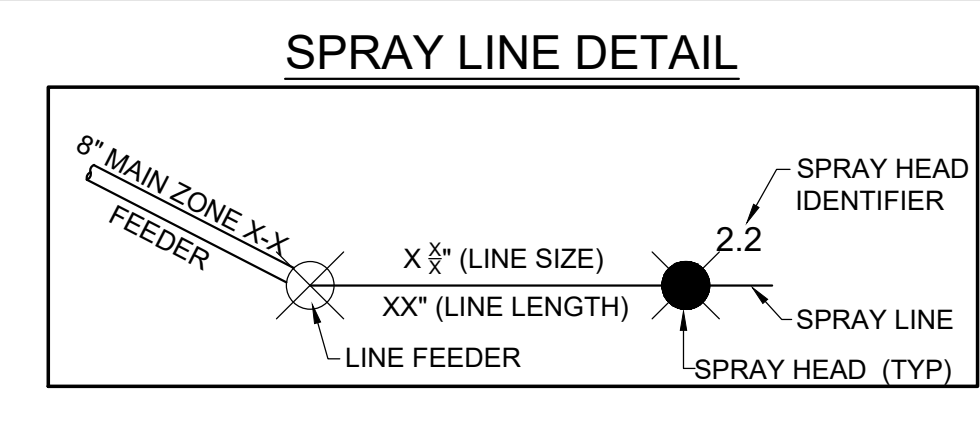
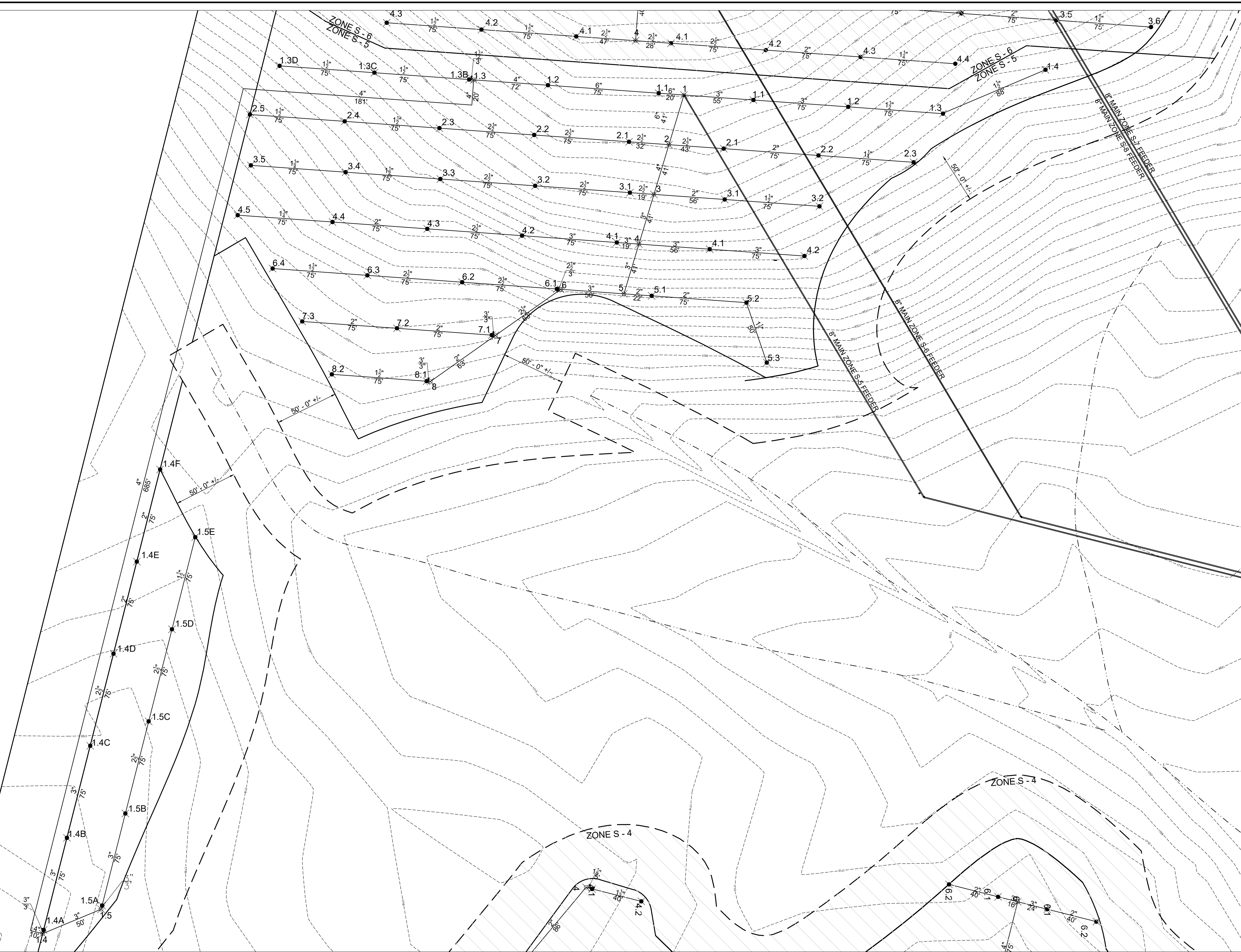
LEGEND

- PROPERTY LINE
- 150' - 0" OFFSET LINE
- ZONE BOUNDARY
- BUFFER EDGE LINE (SPRAY LIMITS)
- PVC POLYVINYL CHLORIDE PIPE
- DIP DUCTILE IRON PIPE
- ##### EXISTING CONTOUR LABEL
- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- ##### PROPOSED CONTOUR LABEL
- PROPOSED MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- OVERHEAD POWER LINES
- PROPOSED GRAVEL DRIVE
- WATER SURFACE OR DRAIN
- 150' TVA EASEMENT

DESIGN	PCC	DRAWN	JRH	CHECKED	INH	APPROVED	PCC
WASTEWATER TREATMENT PLANT EXPANSION BLEDSOE COUNTY CORRECTIONAL COMPLEX PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06							
SPRAY FIELD ZONE S - 3							
ENGINEERS, INC. 3354 PERMETER HILL DRIVE, SUITE 140 NASHVILLE, TN 37211 615-834-8900							
JOB NO. N16003							
ISSUE DATE November 30, 2018							
SCALE 1" = 30' - 0"							
DRAWING NO. M-1308							

CTI PROJECT: N16003-01 (TN) Dept. General Services (DECO) Bledsoe County Correctional Complex DRAWING: CTI - M-1310 SPRAY FIELD ZONE S-5 (6/6/2019 10:03:11 PM) LAYOUT: ZONE S-5

DATE OF PRINT: 3/14/2019 4:11 PM



NODE SUMMARY		Node	Head Yes/No	Coordinates		Fittings At Node		
Area	Line			North	West	Inlet Reducer In x In	Cross In In	Tea In In
South 5 Zone Header								
0	N							
1	N	510483.16	2188234.47		6x6	6	-	-
2	N	510471.30	2188773.72			6	-	6x4
3	N	510459.45	2188312.97			4	-	4x3
4	N	510447.60	2188352.22			3	-	-
5	N	510435.74	2188391.47			4	-	3
6	N	510385.87	2188387.87		3x2.5	-	-	2.5
7	N	510334.45	2188424.27		2.5x2	-	-	2
8	N	510283.03	2188460.67		2x1.5	-	-	1.5
N-1								
1	N	510483.16	2188234.47					
1.1	Y	510538.01	2188238.42				3	-
1.2	Y	510612.82	2188243.82		3x2	-	-	2x1.5
1.3	Y	510687.63	2188249.21				-	1.5
1.4	Y	510768.52	2188214.57				-	1.5
N-2								
2	N	510471.30	2188773.72					6x2.5
2.1	Y	510514.57	2188776.83		2.5x2	-	-	2
2.2	Y	510589.37	2188282.23		2x1.25	-	-	1.25
2.3	Y	510664.44	2188287.64		1.25x1	-	-	1
N-3								
3	N	510459.45	2188312.97					4x2
3.1	Y	510515.31	2188317.00		2x1.5	-	-	1.5
3.2	Y	510590.11	2188322.39		1.5x0.75	-	-	0.75
N-4								
4	N	510447.60	2188352.22					-
4.1	Y	510503.45	2188356.24				3	-
4.2	Y	510578.26	2188361.64				3	-
N-5								
5	N	510435.74	2188391.47					3x2
5.1	Y	510457.69	2188393.05				2	-
5.2	Y	510532.49	2188398.44				2	2x1.25
5.3	Y	510548.54	2188445.80		1.25x0.75	-	-	0.75
S-1								
1	N	510483.16	2188234.47					-
1.1	Y	510463.21	2188233.03				6	-
1.2	Y	510375.81	2188226.73		6x4	-	-	4
1.3	N	510317.19	2188222.51					4
1.3B	N	510313.60	2188222.25		4x3	-	-	-
1.3C	N	510238.79	2188216.85					3
1.3D	N	510163.98	2188211.46					3
S-1.3								
1.3	N	510317.19	2188222.51					4x1.5
1.3.B	Y	510313.60	2188222.25				1.5	-
1.3.C	Y	510238.79	2188216.85				1.5	-
1.3.D	Y	510163.98	2188211.46		1.5x1	-	-	1
S-1.4								
1.4	N	510471.30	2188773.72					4x3
1.4.A	Y	509977.73	2188893.75				3	-
1.4.B	Y	509996.12	2188821.04				3	-
1.4.C	Y	510014.50	2188748.33		3x2.5	-	-	2.5
1.4.D	Y	510052.89	2188765.63		2.5x2	-	-	2
1.4.E	Y	510051.27	2188602.90				2	-
1.4.F	Y	510069.66	2188530.19		2x1	-	-	1
S-1.5								
1.5	N	510023.13	2188877.38					-
1.5.A	Y	510023.86	2188874.47				3	-
1.5.B	Y	510042.25	2188801.76				3	3x2.5
1.5.C	Y	510060.63	2188729.05				2.5	-
1.5.D	Y	510079.02	2188656.34		2.5x2	-	-	2x1.5
1.5.E	Y	510097.41	2188583.63				1.5	-
S-2								
2	N	510471.30	2188773.72					6x2.5
2.1	Y	510439.76	2188771.44				2.5	-
2.2	Y	510364.96	2188266.05				2.5	-
2.3	Y	510290.15	2188260.66				2.5	2.5x1.5
2.4	Y	510215.34	218825.27				1.5	-
2.5	Y	510140.53	2188249.87				1.5	-
S-3								
3	N	510459.45	2188312.97					4x2.5
3.1	Y	510440.50	2188311.60				2.5	-
3.2	Y	510365.69	2188306.21				2.5	-
3.3	Y	510290.89	2188300.82		2.5x2	-	-	2x1.5
3.4	Y	510216.08	2188295.42				1.5	-
3.5	Y	510141.28	2188290.03				1.5	-
S-4								
4	Y	510447.60	2188352.22					-
4.1	Y	510430.14	2188350.96				3	-
4.2	Y	510355.34	2188345.57		3x2.5	-	-	2.5
4.3	Y	510280.53	2188340.17				2.5	2.5x2
4.4	Y	510205.73	2188334.78		2x1.25	-	-	1.25
4.5	Y	510130.92	2188329.39		1.25x1	-	-	1
S-6								
6	N	510385.87	2188387.87					-
6.1	Y	510382.88	2188387.66				2.5	-
6.2	Y	510308.08	2188382.26				2.5	-
6.3	Y	510233.27	2188376.87				2.5	2.5x1.5
6.4	Y	510158.46	2188371.48		1.5x1	-	-	1
S-7								
7	N	510334.45	2188424.27					-
7.1	Y	510331.46	2188424.05				2	-
7.2	Y	510256.65	2188418.66				2	-
7.3	Y	510181.85	2188413.27				2	-
S-8								
8	N	510283.03	2188460.67					-
8.1	Y	510280.04	2188460.45				1.5	-
8.2	Y	510205.23	2188455.06				1.5	-

LEGEND

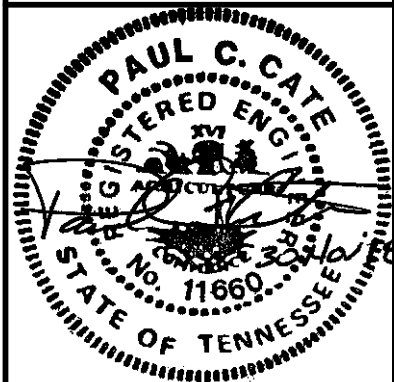
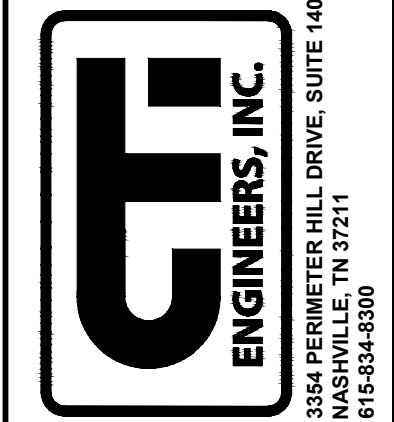
- PROPERTY LINE
- 150' - 0" OFFSET LINE
- ZONE BOUNDARY
- BUFFER EDGE LINE (SPRAY LIMITS)
- PVC
- DIP
- EXISTING CONTOUR LABEL
- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- PROPOSED CONTOUR LABEL
- PROPOSED MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- OVERHEAD POWER LINES
- PROPOSED GRAVEL DRIVE
- WATER SURFACE OR DRAIN
- 150' TVA EASEMENT

REVISIONS		DATE	BY	APPD
NO.	DESCRIPTIONS			

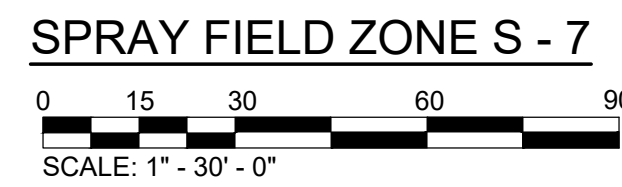
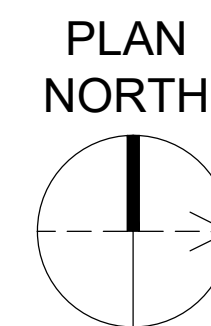
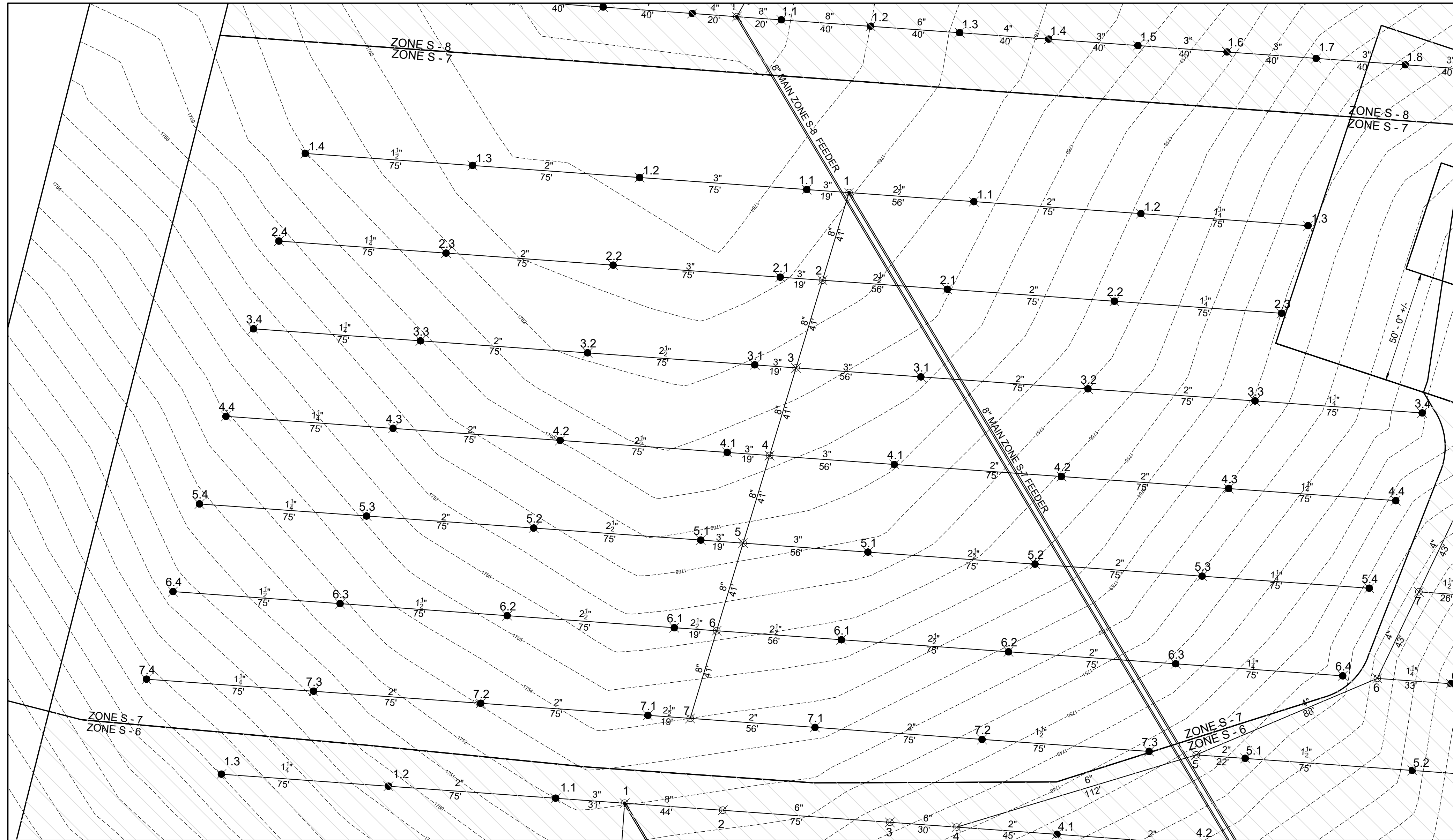
DESIGN PCC
DRAWN JRH
CHECKED NH
APPROVED PCC

WASTEWATER TREATMENT PLANT EXPANSION
BLEDSOE COUNTY CORRECTIONAL COMPLEX
PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

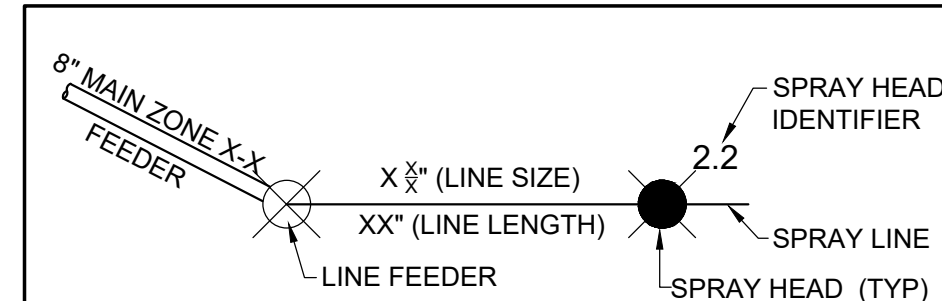
SPRAY FIELD ZONE S - 5



JOB NO. N16003
ISSUE DATE November 30, 2018
SCALE 1" = 30' - 0"
DRAWING NO. M-1310

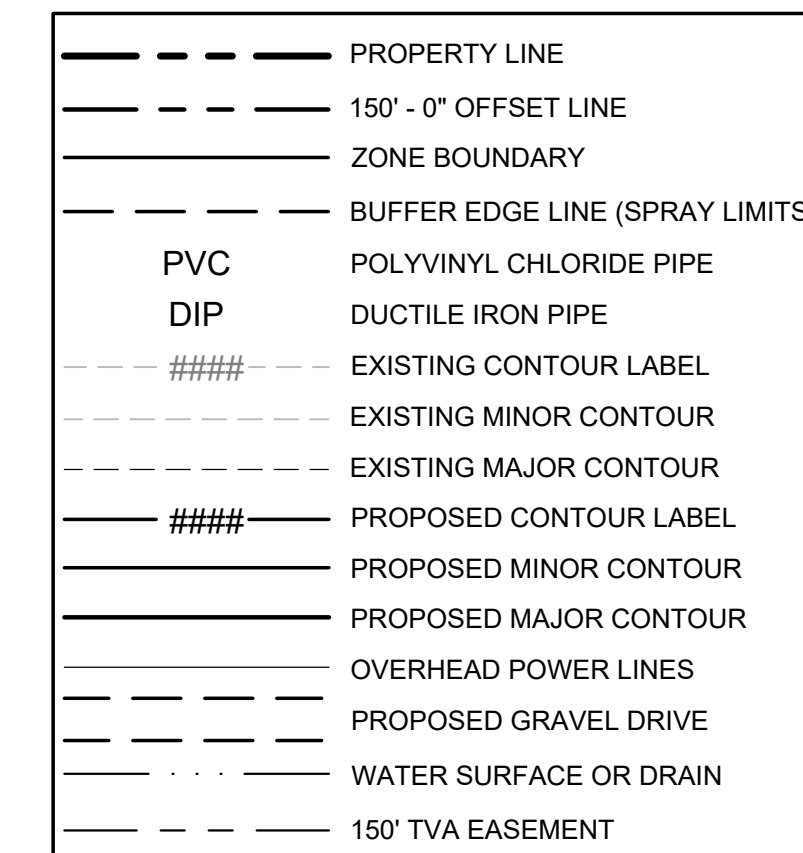


SPRAY LINE DETAIL



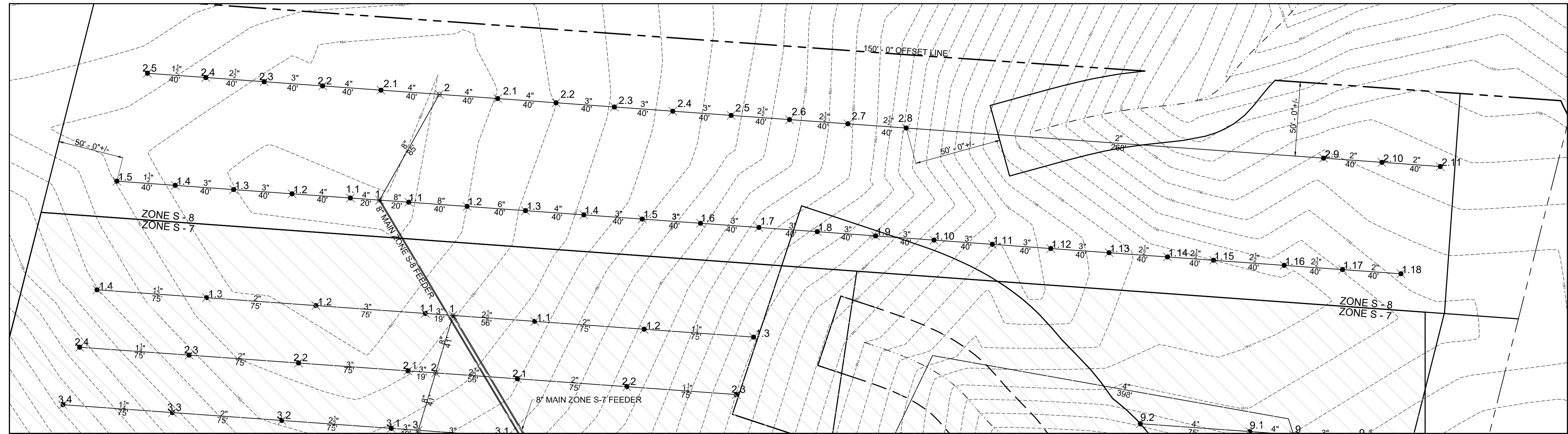
NODE SUMMARY		Head Yes/No	Coordinates		Fittings At Node				
Area	Line		Node	North	West	Inlet Reducer	Cross In	Teel In	Outlet Reducer
South 7 Zone									
Header									
	0	N		51054.06	218798.44	-	-	-	-
	1	N		51054.21	218787.69	-	8	-	-
	2	N		51054.36	218786.94	-	6	-	8x6
	3	N		51054.51	218791.19	6x4	4	-	-
	4	N		51054.65	218795.44	-	4	-	-
	5	N		51054.80	218799.69	4x3	3	-	-
	6	N		51048.95	218803.94	3x2.5	2.5	-	-
	7	N		51054.06	218798.44	-	-	-	-
N-1									
	1.1	N		51069.92	218782.47	-	-	-	8x2.5
	1.2	Y		510684.73	218787.86	2x1.25	-	-	2.5x2
	1.3	Y		510759.53	218781.25	-	-	-	1.25
N-2									
	2.1	N		51054.21	218787.69	-	-	-	8x2.5
	2.2	Y		510598.07	218784.72	-	-	-	2.5x2
	2.3	Y		510672.87	218787.11	2x1.25	-	-	1.25
	2.4	Y		510747.68	218785.50	-	-	-	1.25
N-3									
	3.1	N		51053.36	218787.94	-	-	-	6x3
	3.2	Y		510586.21	218780.97	3x2.5	-	-	2.5x2
	3.3	Y		510661.02	218788.36	-	-	-	2
	3.4	Y		510735.83	218781.75	2x1.5	-	-	1.5x1.25
N-4									
	4.1	N		51058.51	218791.19	-	-	-	4x3
	4.2	Y		510574.36	218790.21	3x2	-	-	2
	4.3	Y		510649.17	218795.61	-	-	-	2
	4.4	Y		510723.97	218791.00	2x1.25	-	-	1.25
N-5									
	5.1	N		51056.65	218795.44	-	-	-	4x3
	5.2	Y		510542.21	218787.69	3x2.5	-	-	2.5
	5.3	Y		510607.31	218794.86	2.5x2	-	-	2
	5.4	Y		510712.12	218790.25	2x1.25	-	-	1.25
	5.5	Y		510786.93	218795.64	1.25x0.75	-	-	0.75
N-6									
	6.1	N		51048.95	218799.69	-	-	-	3x2.5
	6.2	Y		51050.66	218798.71	-	-	-	2.5
	6.3	Y		510625.46	218800.11	2.5x2	-	-	2
	6.4	Y		510700.27	218809.50	2x1.25	-	-	1.25
N-7									
	7.1	N		51048.95	218803.94	-	-	-	2.5x2
	7.2	Y		510538.80	218807.96	-	-	-	2
	7.3	Y		510613.61	218804.36	-	-	-	2x1.5
	7.4	Y		510688.41	218808.75	1.5x1	-	-	1
S-1									
	1.1	N		51054.06	218798.44	-	-	-	8x3
	1.2	Y		510535.11	218797.07	-	-	-	3
	1.3	Y		510460.31	218791.68	-	-	-	3x2
	1.4	Y		510585.50	218786.29	-	-	-	2x1.5
S-2									
	2.1	N		510542.21	218787.69	-	-	-	8x3
	2.2	Y		510523.26	218786.32	-	-	-	3
	2.3	Y		510484.46	218783.93	-	-	-	3x2
	2.4	Y		510373.65	218782.54	2x1.25	-	-	1.25
S-3									
	3.1	N		51053.36	218787.94	-	-	-	6x3
	3.2	Y		510511.84	218785.60	-	-	-	3x2.5
	3.3	Y		510437.04	218780.21	-	-	-	2.5x2
	3.4	Y		510362.23	218784.82	2x1.25	-	-	1.25
S-4									
	4.1	N		51058.51	218791.19	-	-	-	4x3
	4.2	Y		510499.56	218794.82	3x2.5	-	-	2.5
	4.3	Y		510434.75	218789.43	2.5x2	-	-	2
	4.4	Y		510388.96	218794.04	2x1.25	-	-	1.25
S-5									
	5.1	N		51056.65	218795.44	-	-	-	4x3
	5.2	Y		510487.70	218794.07	3x2.5	-	-	2.5
	5.3	Y		510413.90	218794.68	2.5x2	-	-	2
	5.4	Y		510338.09	218794.29	2x1.25	-	-	1.25
S-6									
	6.1	Y		510494.80	218799.69	-	-	-	3x2.5
	6.2	Y		510475.85	218798.32	-	-	-	2.5
	6.3	Y		510401.04	218787.93	-	-	-	2.5x1.5
	6.4	Y		510326.24	218782.54	-	-	-	1.5
S-7									
	7.1	N		51048.95	218803.94	-	-	-	-
	7.2	Y		510464.00	218802.57	2.5x2	-	-	2
	7.3	Y		510389.19	218807.18	-	-	-	2
	7.4	Y		510314.39	218801.78	2x1.25	-	-	1.25

LEGEND

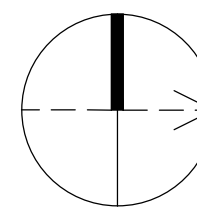


DESIGN			REVISIONS		
PCC	JRH	INH	NO.	DATE	BY
DRAWN	CHECKED	APPROVED	DESCRIPTIONS		
WASTEWATER TREATMENT PLANT EXPANSION BLEDSOE COUNTY CORRECTIONAL COMPLEX					
PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06					
SPRAY FIELD ZONE S - 7					
JOB NO. N16003					
ISSUE DATE November 30, 2018					
SCALE 1" = 30' - 0"					
DRAWING NO. M-1312					

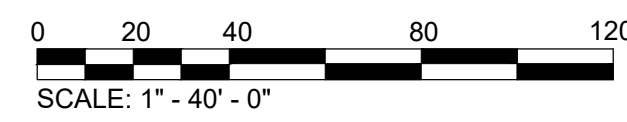
DATE OF PRINT: 3/14/2019 4:16 PM C:\PROJ\ECT-N16003-01\TN.Dept. General Services\TDEC\Bledsoe County Correctional Complex DRAWING-CTI-M-1313 SPRAY FIELD ZONE S-8 (65654049)1119 2:42PM LAYOUT- ZONE S-8



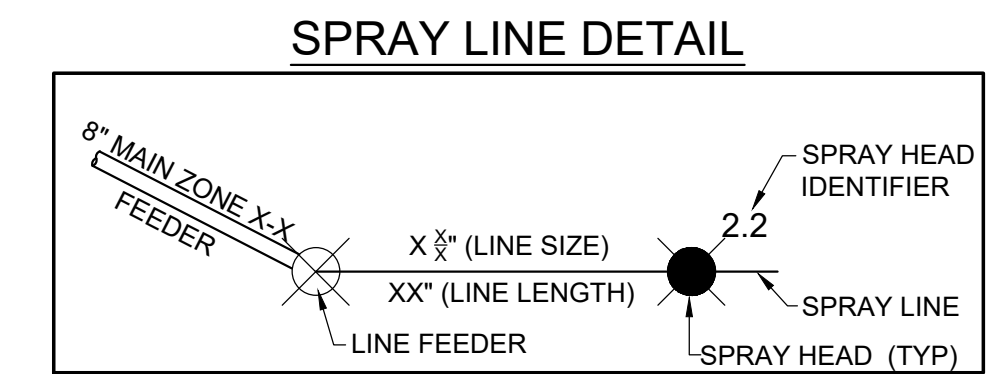
PLAN NORTH



SPRAY FIELD ZONE S-7



NODE SUMMARY			Coordinates		Fittings At Node				
Area	Line	Node	Head Yes/No	North	West	Inlet Reducer in x in	Cross in	Tea in	Outlet Reducer in x in
South S-8 Zone									
Header									
	1	N		510503.84	2187719.62	-	8	-	-
	2	Y		510544.69	2187647.38	-	8	-	-
N-1									
	1	N		510503.84	2187719.62	-	-	-	-
	1.1	Y		510523.79	2187721.06	-	-	8	-
	1.2	Y		510563.68	2187723.94	8x6	-	6	-
	1.3	Y		510603.58	2187726.81	-	-	6	6x4
	1.4	Y		510643.48	2187729.69	-	-	4	4x3
	1.5	Y		510683.37	2187732.57	-	-	3	-
	1.6	Y		510723.27	2187735.44	-	-	3	-
	1.7	Y		510763.17	2187738.32	-	-	3	-
	1.8	Y		510803.06	2187741.20	-	-	3	-
	1.9	Y		510842.96	2187744.07	-	-	3	-
	1.10	Y		510882.85	2187746.95	-	-	3	-
	1.11	Y		510922.75	2187749.82	-	-	3	-
	1.12	Y		510962.65	2187752.70	-	-	3	-
	1.13	Y		511002.54	2187755.58	3x2.5	-	2.5	-
	1.14	Y		511042.44	2187758.45	-	-	2.5	-
	1.15	Y		511079.93	2187760.72	-	-	2.5	-
	1.16	Y		511122.23	2187764.20	-	-	2.5	-
	1.17	Y		511162.13	2187767.08	2.5x2	-	2	-
	1.18	Y		511202.03	2187769.96	1x1.25	-	1.25	-
N-2									
	2	N		510544.69	2187647.38	-	-	-	8x4
	2.1	Y		510584.59	2187650.25	-	-	4	-
	2.2	Y		510624.49	2187653.13	4x3	-	3	-
	2.3	Y		510664.38	2187656.00	-	-	3	-
	2.4	Y		510704.28	2187658.88	-	-	3	-
	2.5	Y		510744.17	2187661.76	3x2.5	-	2.5	-
	2.6	Y		510784.07	2187664.63	-	-	2.5	-
	2.7	Y		510823.97	2187667.51	-	-	2.5	-
	2.8	Y		510863.86	2187670.38	2.5x2	-	2	-
	2.9	Y		511149.12	2187690.95	-	-	2	-
	2.10	Y		511189.02	2187693.82	-	-	2	-
	2.11	Y		511228.92	2187696.70	-	-	2	-
S-1									
	1	N		510503.84	2187719.62	-	-	-	8x4
	1.1	Y		510483.89	2187718.19	-	-	4	-
	1.2	Y		510463.99	2187715.31	4x3	-	3	-
	1.3	Y		510444.10	2187712.43	-	-	3	-
	1.4	Y		510424.20	2187709.56	-	-	3	3x1.5
	1.5	Y		510404.30	2187706.68	-	-	1.5	-
S-2									
	2	N		510544.69	2187647.38	-	-	-	8x4
	2.1	Y		510504.80	2187644.50	-	-	4	-
	2.2	Y		510464.90	2187641.62	4x3	-	3	-
	2.3	Y		510425.00	2187638.75	-	-	3	3x2.5
	2.4	Y		510385.11	2187635.87	2.5x1.5	-	1.5	-
	2.5	Y		510345.21	2187632.99	1.5x1	-	1	-



LEGEND

	PROPERTY LINE
	150' - 0" OFFSET LINE
	ZONE BOUNDARY
	BUFFER EDGE LINE (SPRAY LIMITS)
	PVC POLYVINYL CHLORIDE PIPE
	DIP DUCTILE IRON PIPE
	EXISTING CONTOUR LABEL
	EXISTING MINOR CONTOUR
	EXISTING MAJOR CONTOUR
	PROPOSED CONTOUR LABEL
	PROPOSED MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	OVERHEAD POWER LINES
	PROPOSED GRAVEL DRIVE
	WATER SURFACE OR DRAIN
	150' TVA EASEMENT

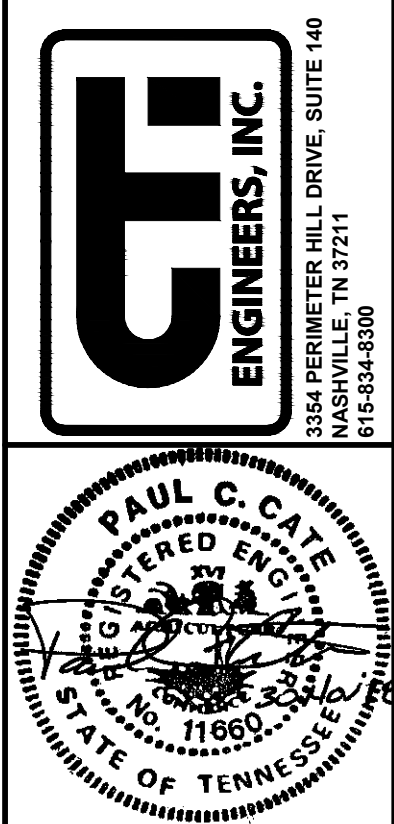
REVISIONS		DATE	BY	APPD
NO.	DESCRIPTIONS			

DESIGN	PCC

WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

DESIGN: PCC
 DRAWN: JRH
 CHECKED: NH
 APPROVED: PCC

SPRAY FIELD ZONE S - 8



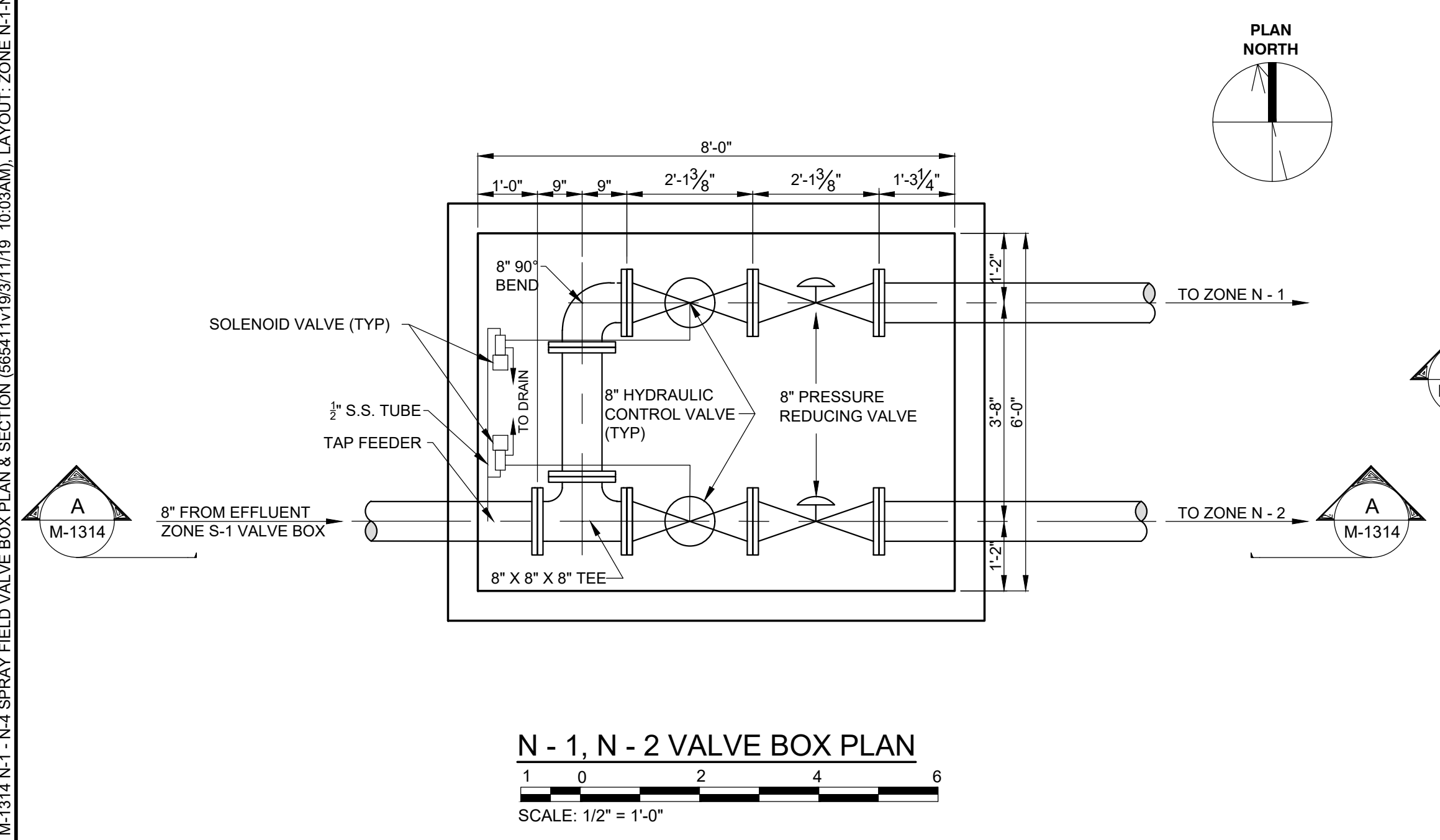
JOB NO.
N16003

ISSUE DATE
November 30, 2018

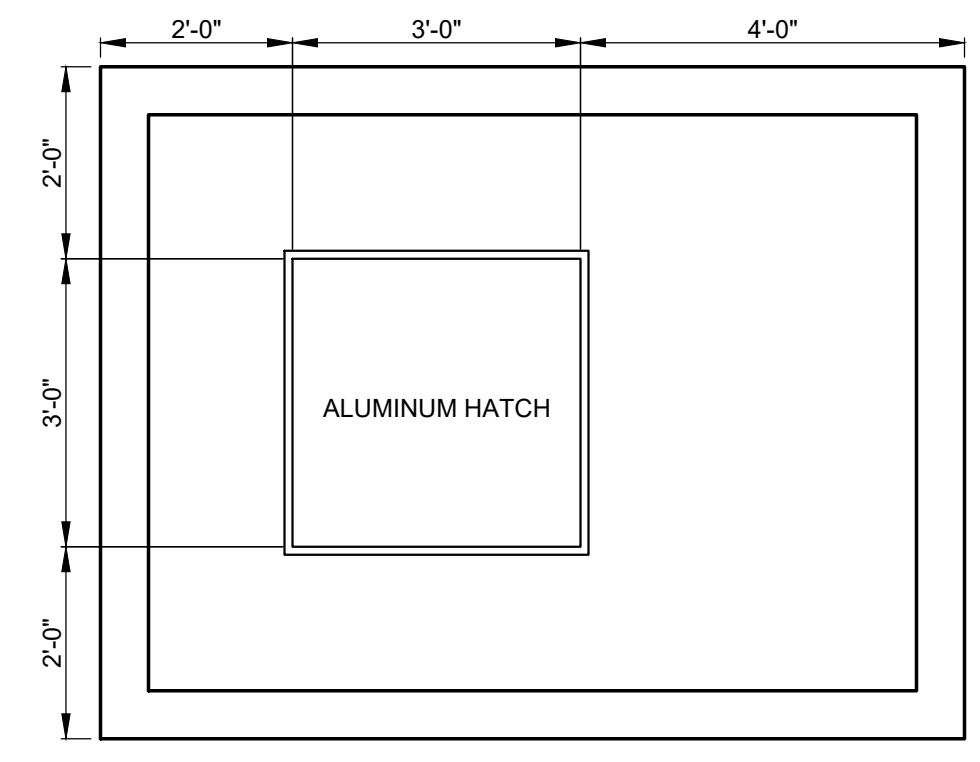
SCALE
1" = 40' - 0"

DRAWING NO.
M-1313

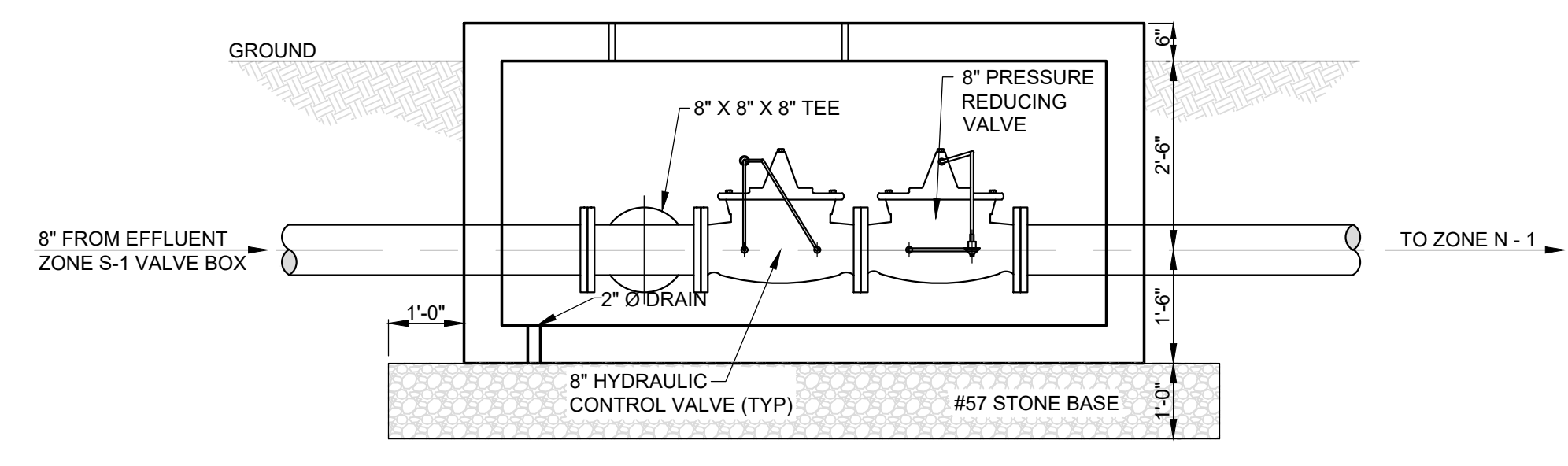
CTT PROJECT: N16003-01 (TN Dept. General Services TDEC) Bledsoe County Correctional Complex, DRAWING: CTT-M-1314-N-1 - N-4 SPRAY FIELD VALVE BOX PLAN & SECTION (665411/19/3/17/19 10:03AM)_LAYOUT_ZONE N-1-N-4
 DATE OF PRINT: 3/14/2019 4:19 PM



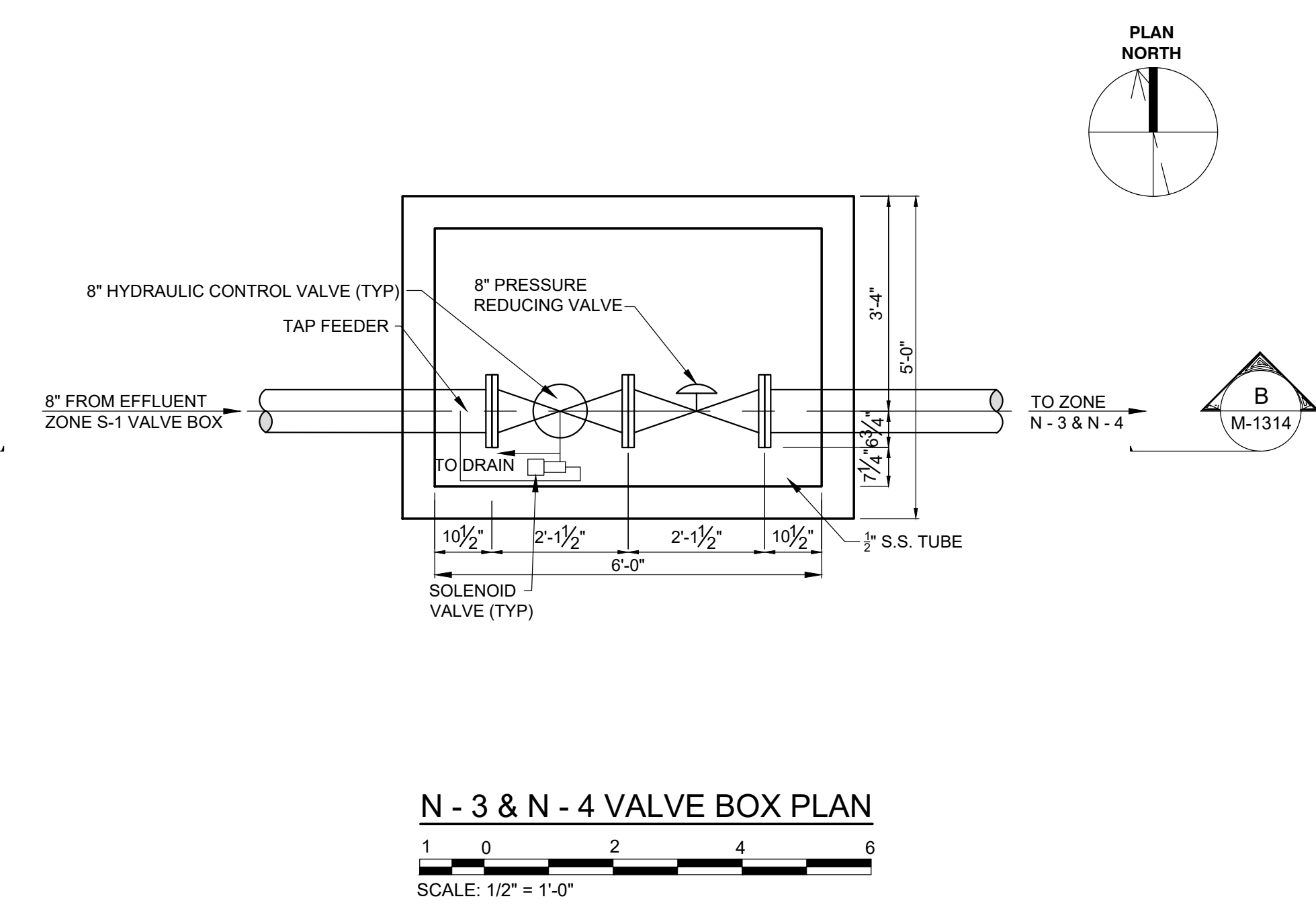
N - 1, N - 2 VALVE BOX PLAN
 SCALE: 1/2" = 1'-0"



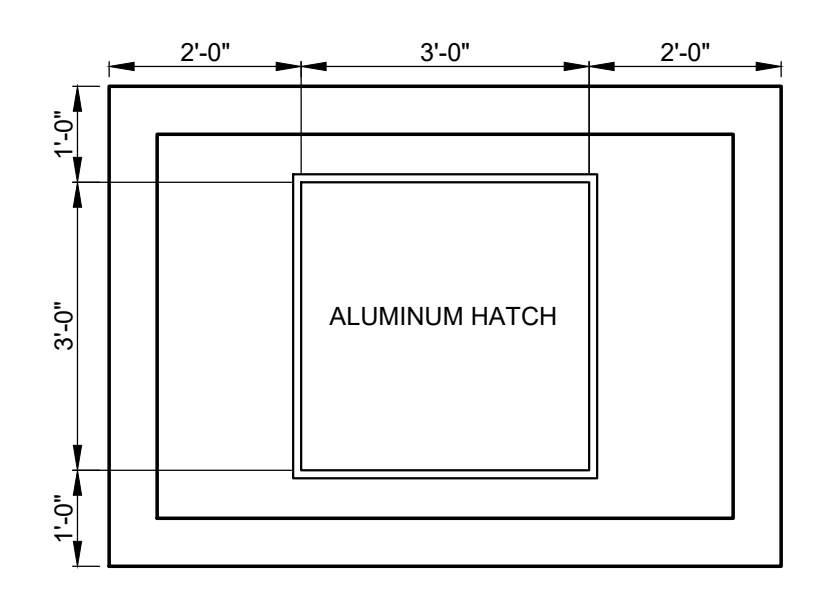
N - 1, N - 2 VALVE BOX PLAN
 SCALE: 1/2" = 1'-0"



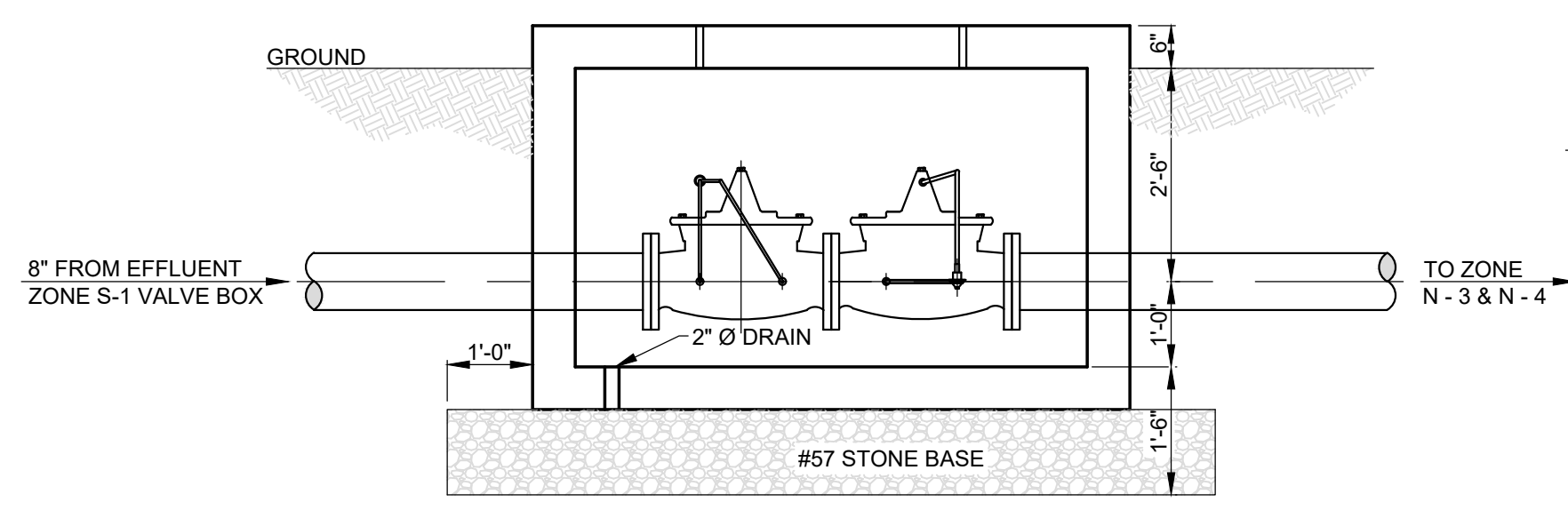
A N - 1, N - 2 VALVE BOX SECTION
 M-1314 SCALE: 1/2" = 1'-0"



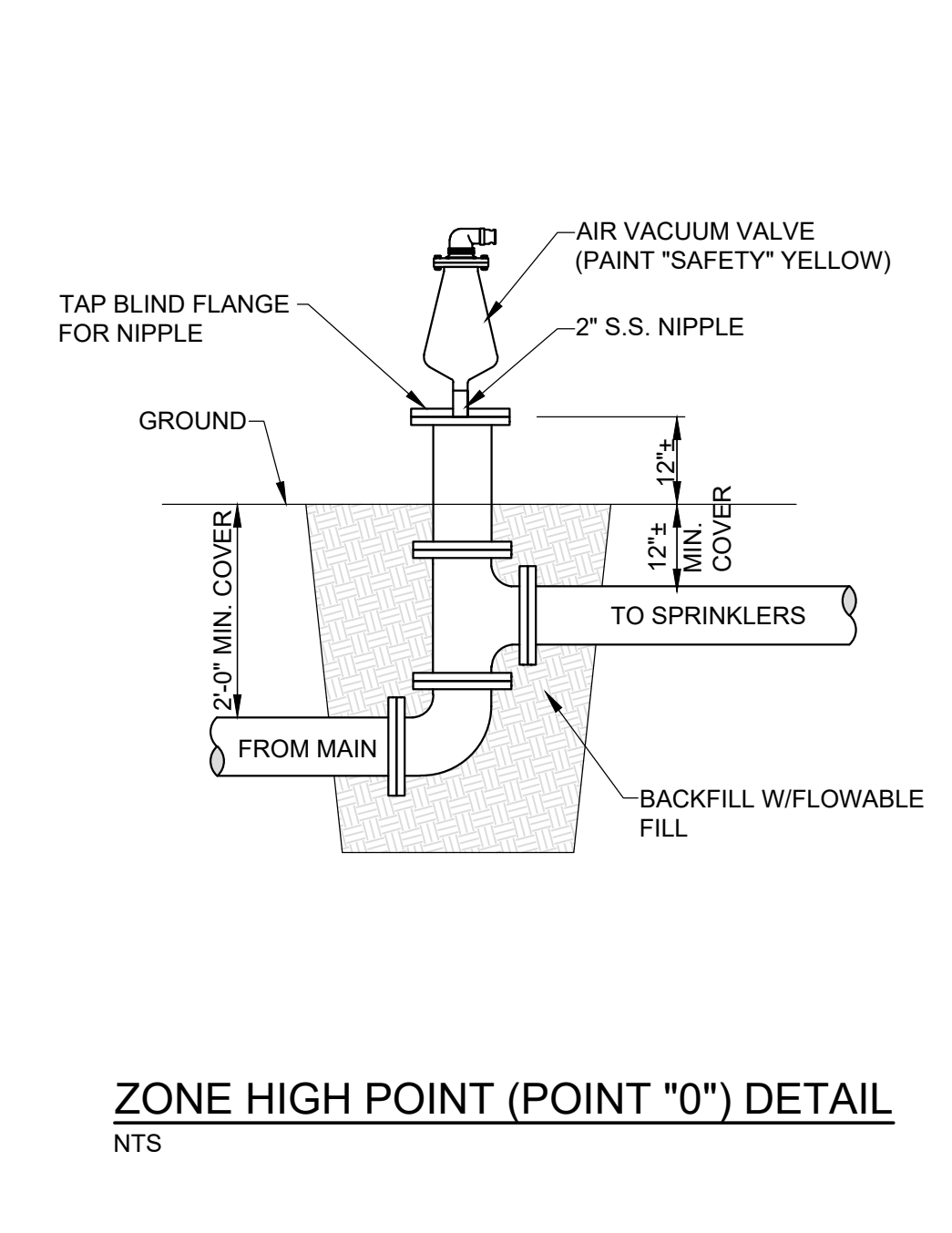
N - 3 & N - 4 VALVE BOX PLAN
 SCALE: 1/2" = 1'-0"



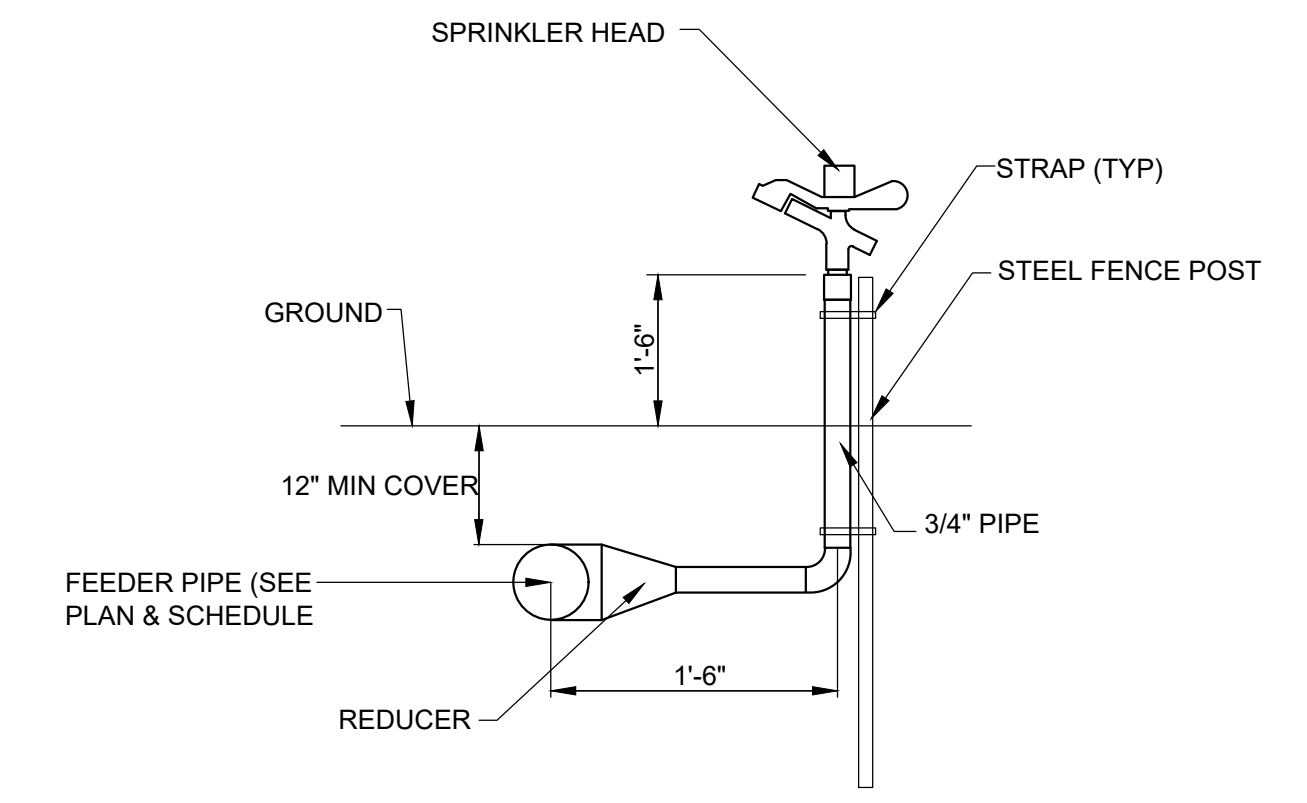
N - 3 & N - 4 VALVE BOX PLAN
 SCALE: 1/2" = 1'-0"



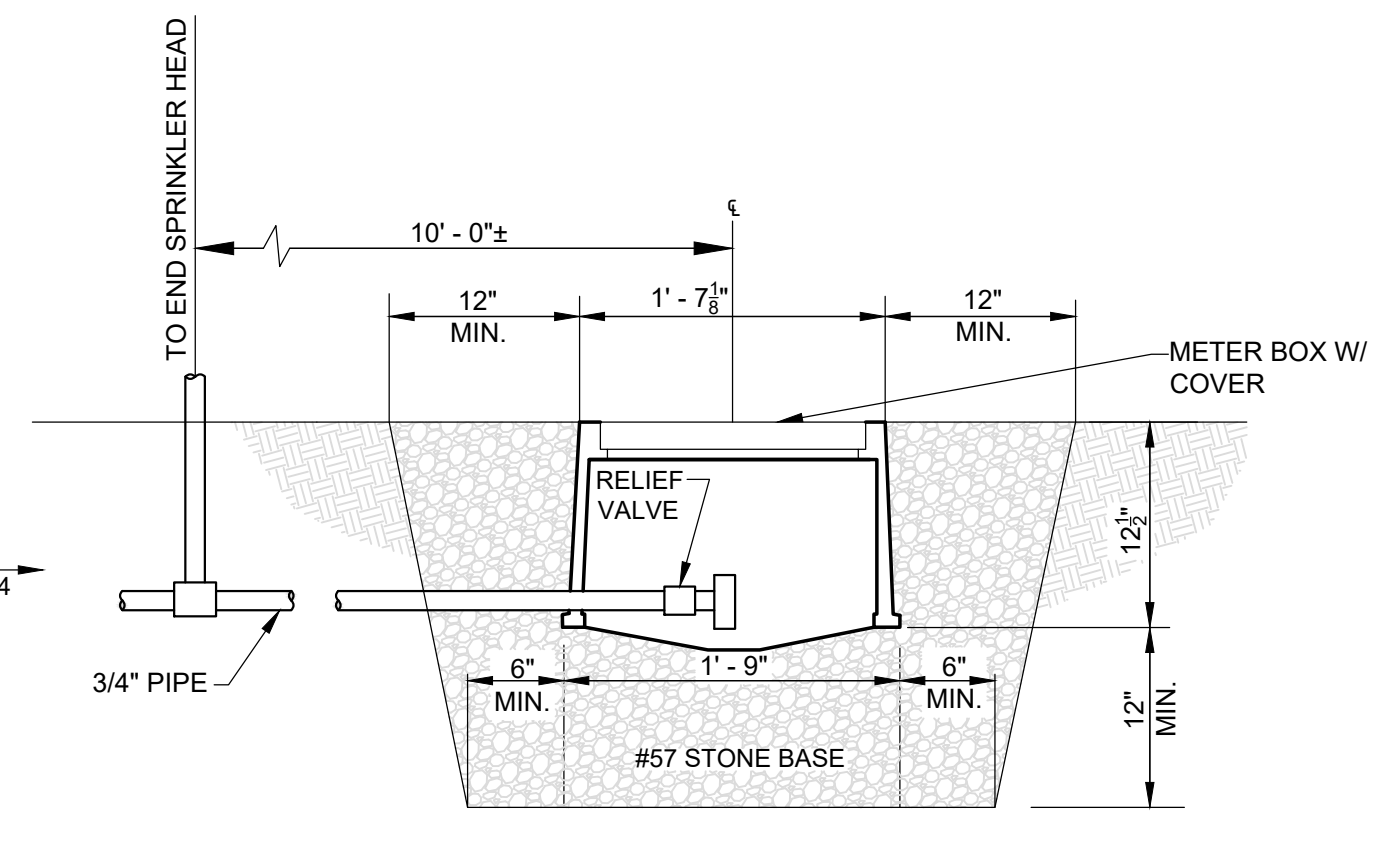
B N - 3 & N - 4 VALVE BOX SECTION
 M-1314 SCALE: 1/2" = 1'-0"



ZONE HIGH POINT (POINT "0") DETAIL
 NTS



SPRINKLER CONNECTION DETAIL
 NTS



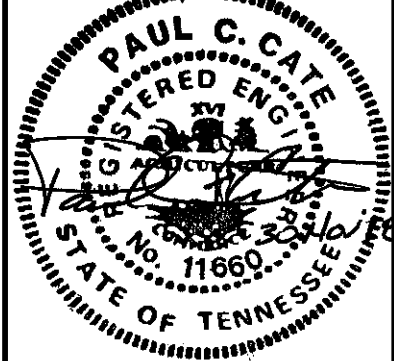
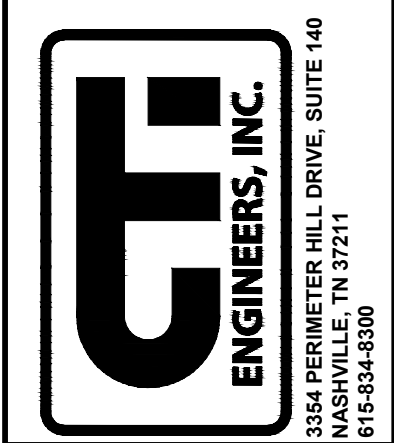
SPRINKLER FEEDER DRAIN DETAIL
 (ONE REQUIRED AT END OF EVERY FEEDER)
 NTS

NOTE:
 VALVE BOX PIPING SHALL BE FLANGED DUCTILE IRON.
 TRANSITION TO PVC PIPE 2' OUTSIDE OF WALL.

REVISIONS		DATE	BY	APPD
NO.	DESCRIPTIONS			

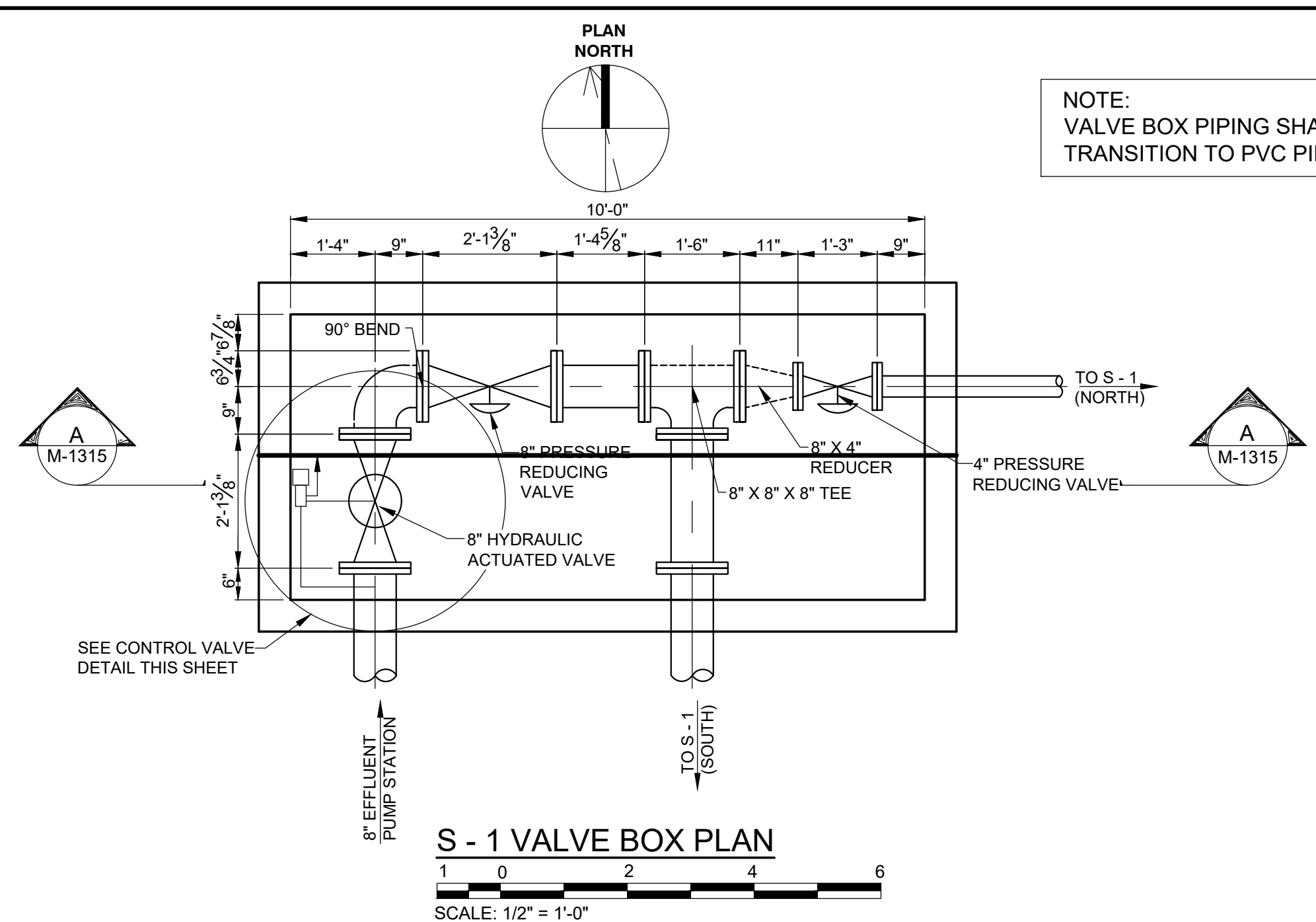
DESIGN	PCC	DRAWN	JRH	CHECKED	INH	APPROVED	PCC

WASTEWATER TREATMENT PLANT EXPANSION
BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06
CONTROL VALVE BOX
ZONE N-1, N-2, N-3, N-4
PLAN, SECTIONS, AND DETAILS

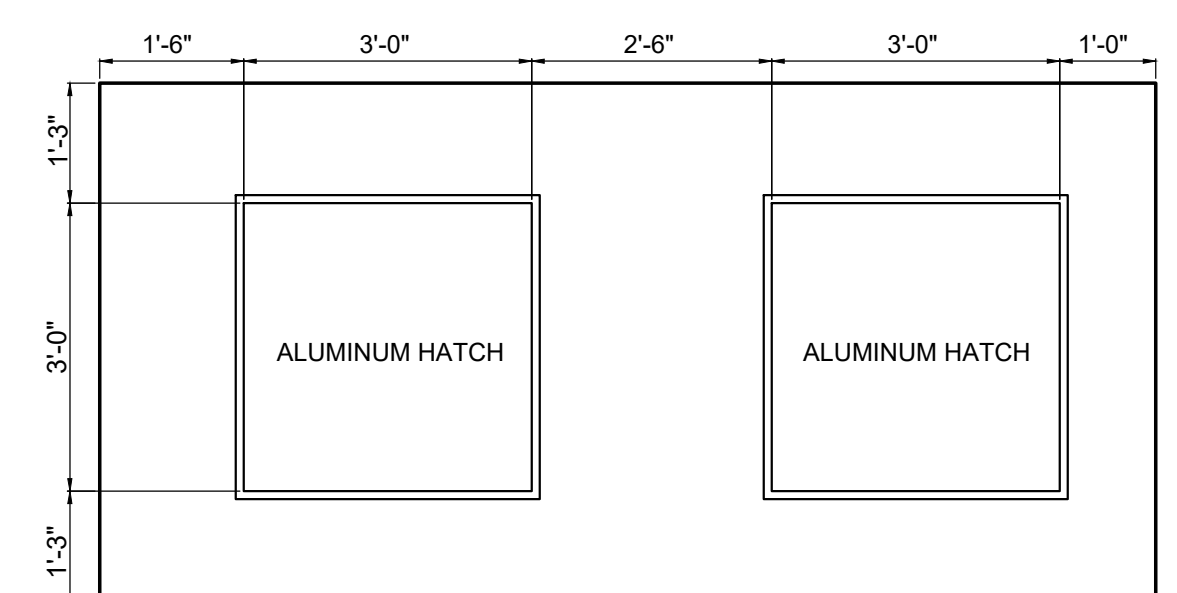


JOB NO.
 N16003
 ISSUE DATE
 November 30, 2018
 SCALE
 AS NOTED
 DRAWING NO.
 M-1314

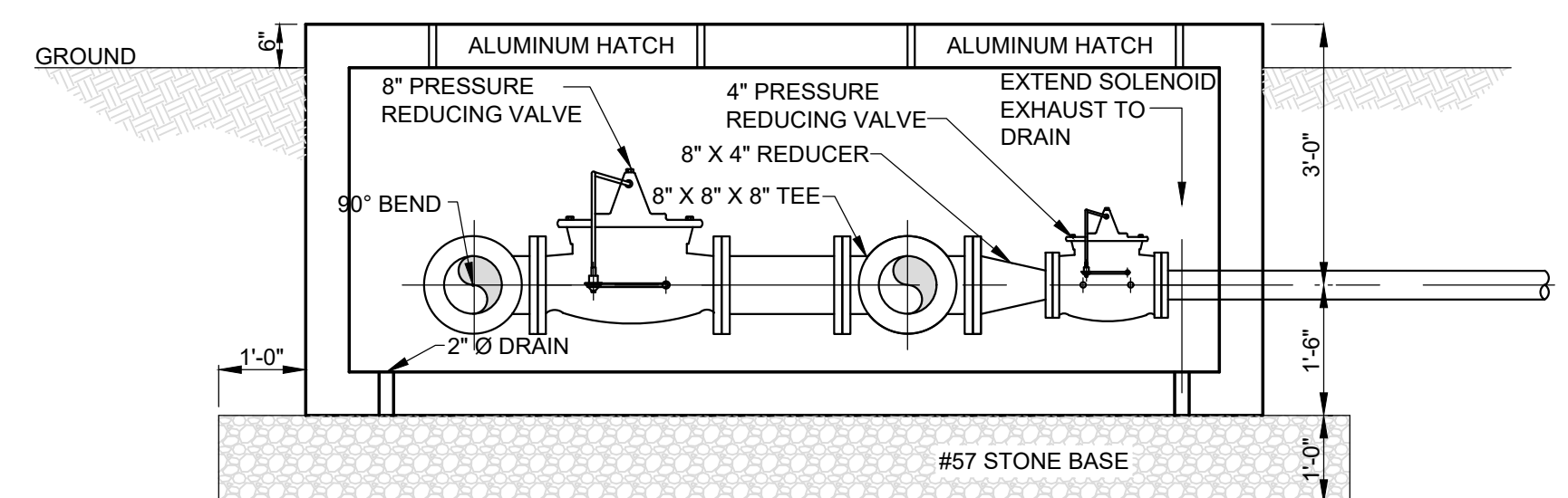
NOTE:
VALVE BOX PIPING SHALL BE FLANGED DUCTILE IRON.
TRANSITION TO PVC PIPE 2' - 0" OUTSIDE OF WALL.



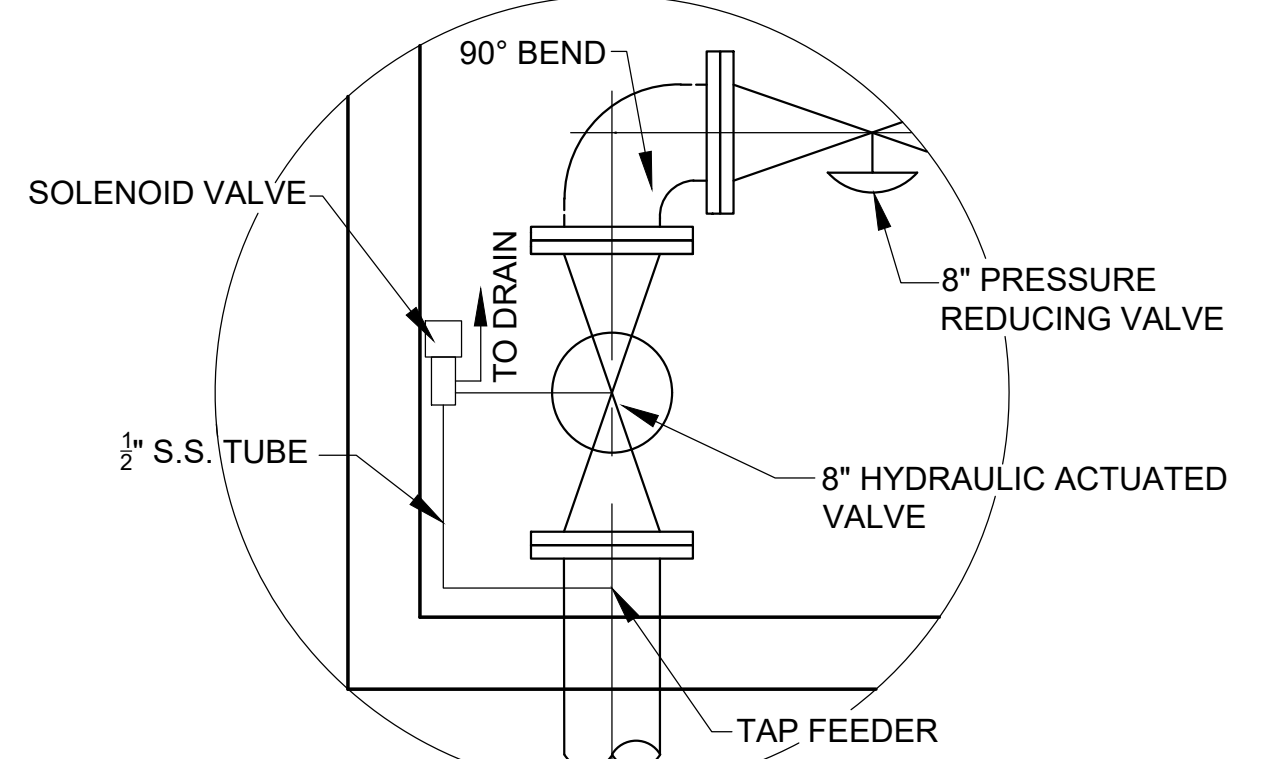
S - 1 VALVE BOX PLAN
SCALE: 1/2" = 1'-0"



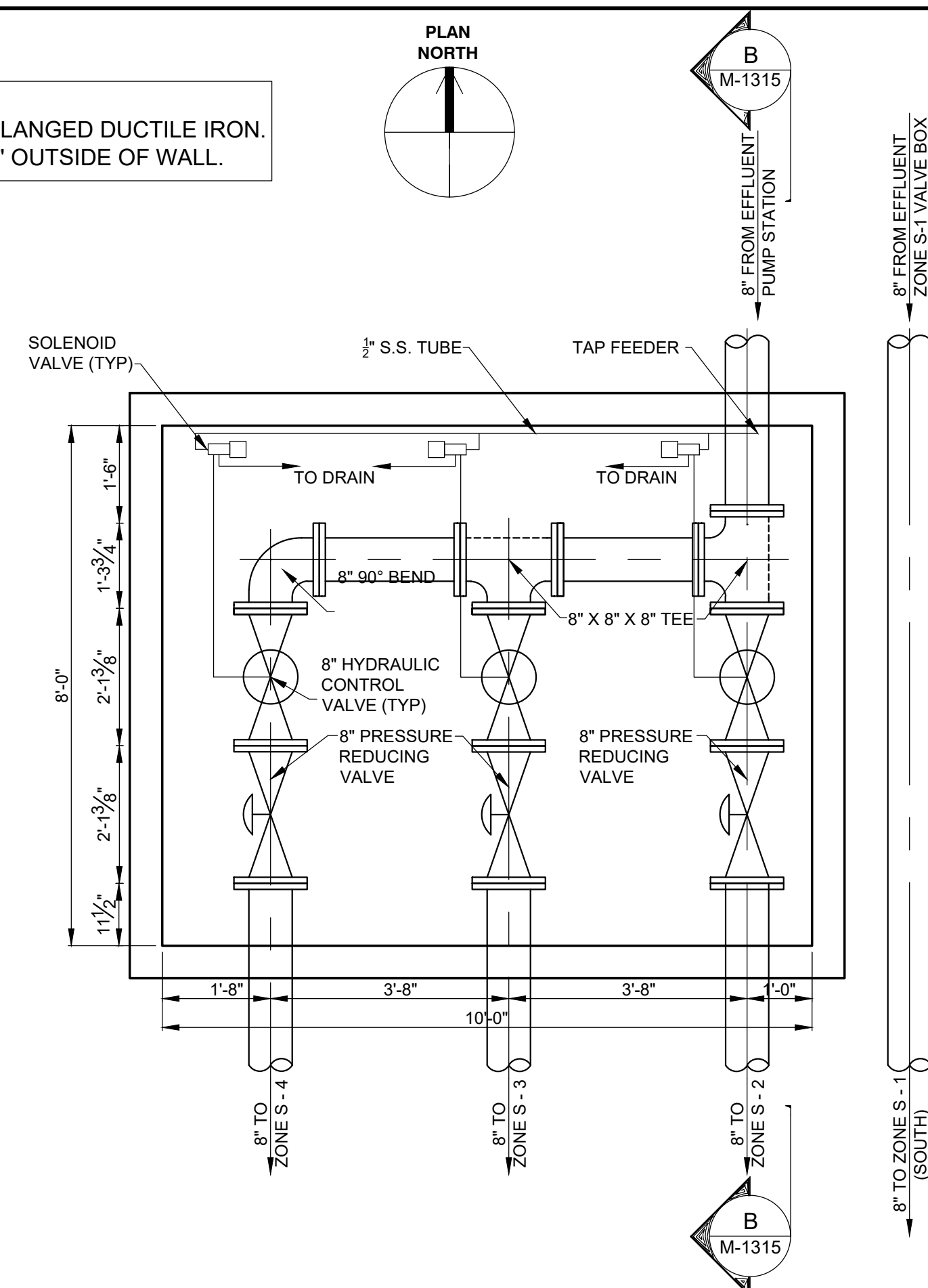
S - 1 VALVE BOX TOP PLAN
SCALE: 1/2" = 1'-0"



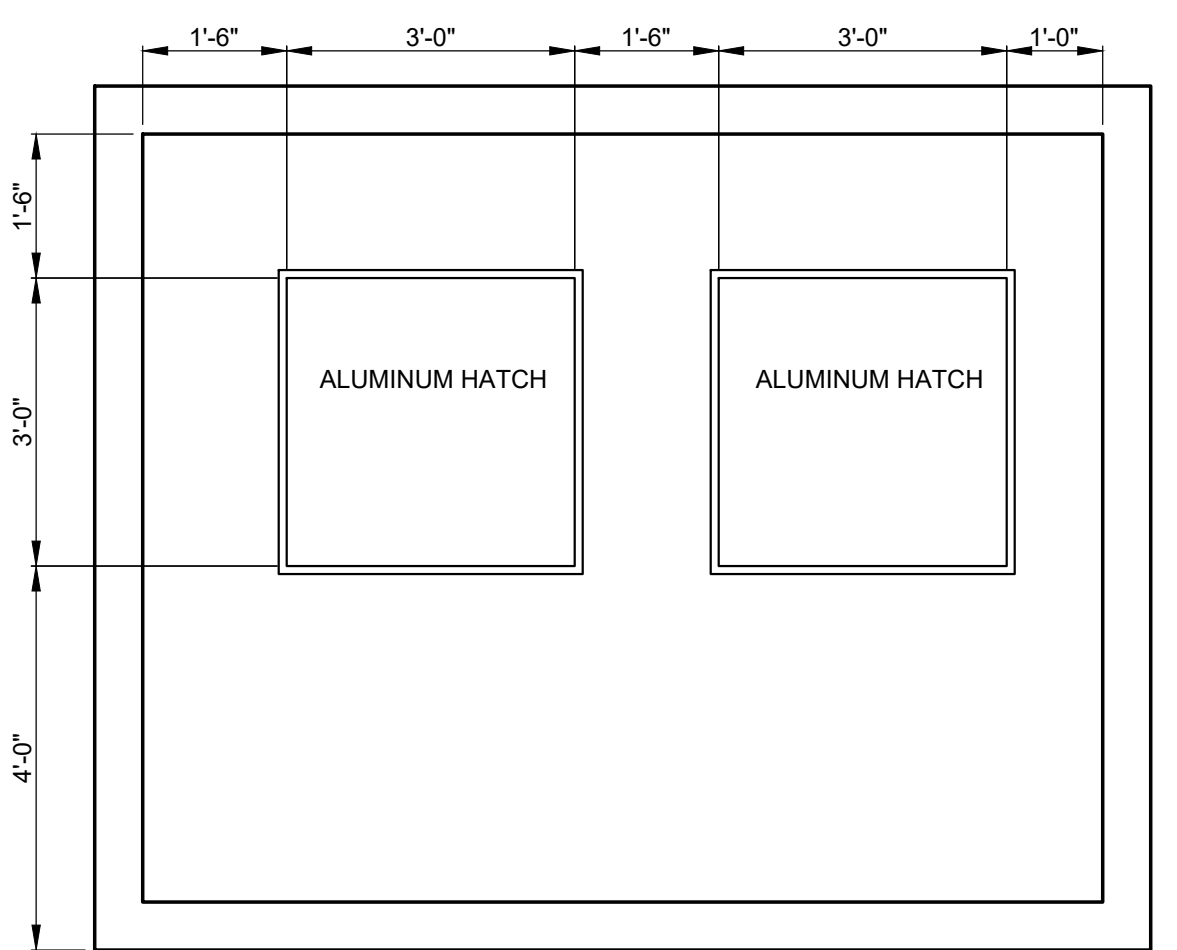
S - 1 VALVE BOX SECTION
SCALE: 1/2" = 1'-0"



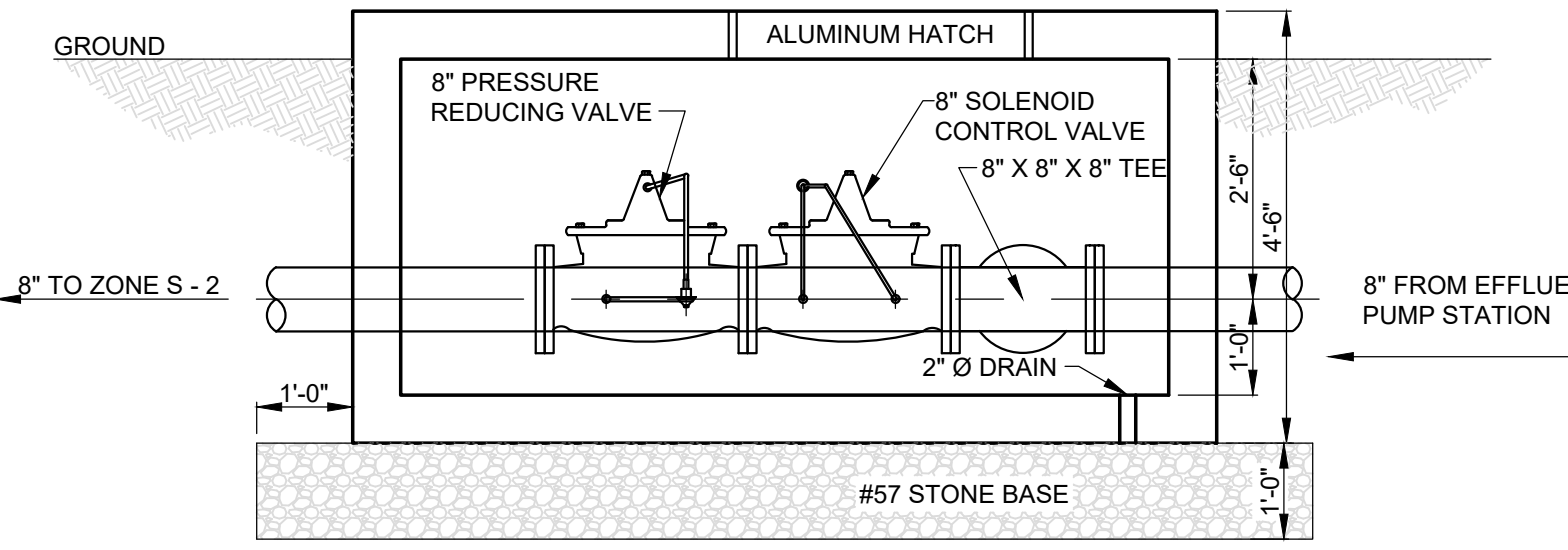
CONTROL VALVE DETAIL
SCALE: 3/4" = 1'-0"



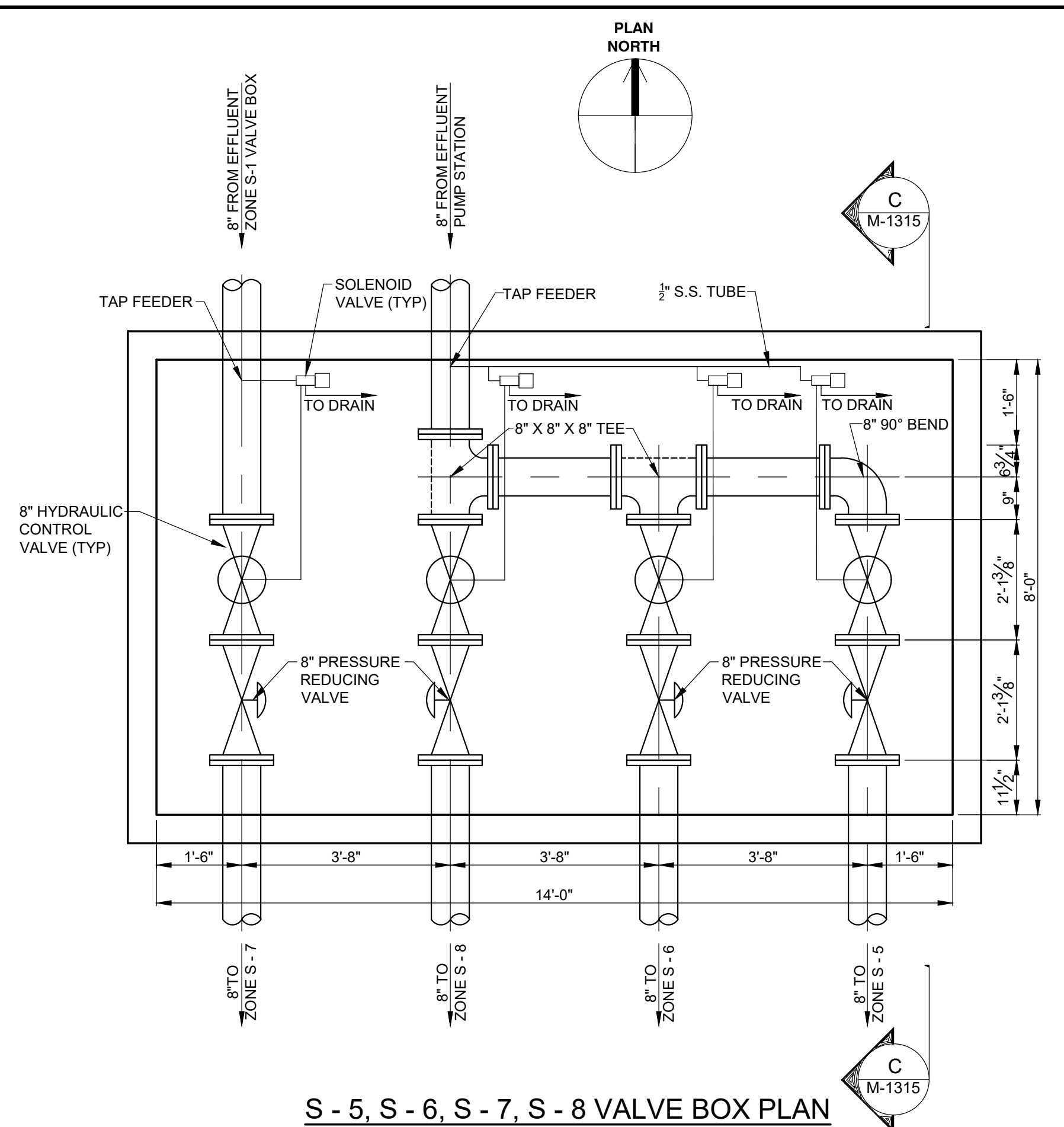
S - 2, S - 3, S - 4 VALVE BOX PLAN
SCALE: 1/2" = 1'-0"



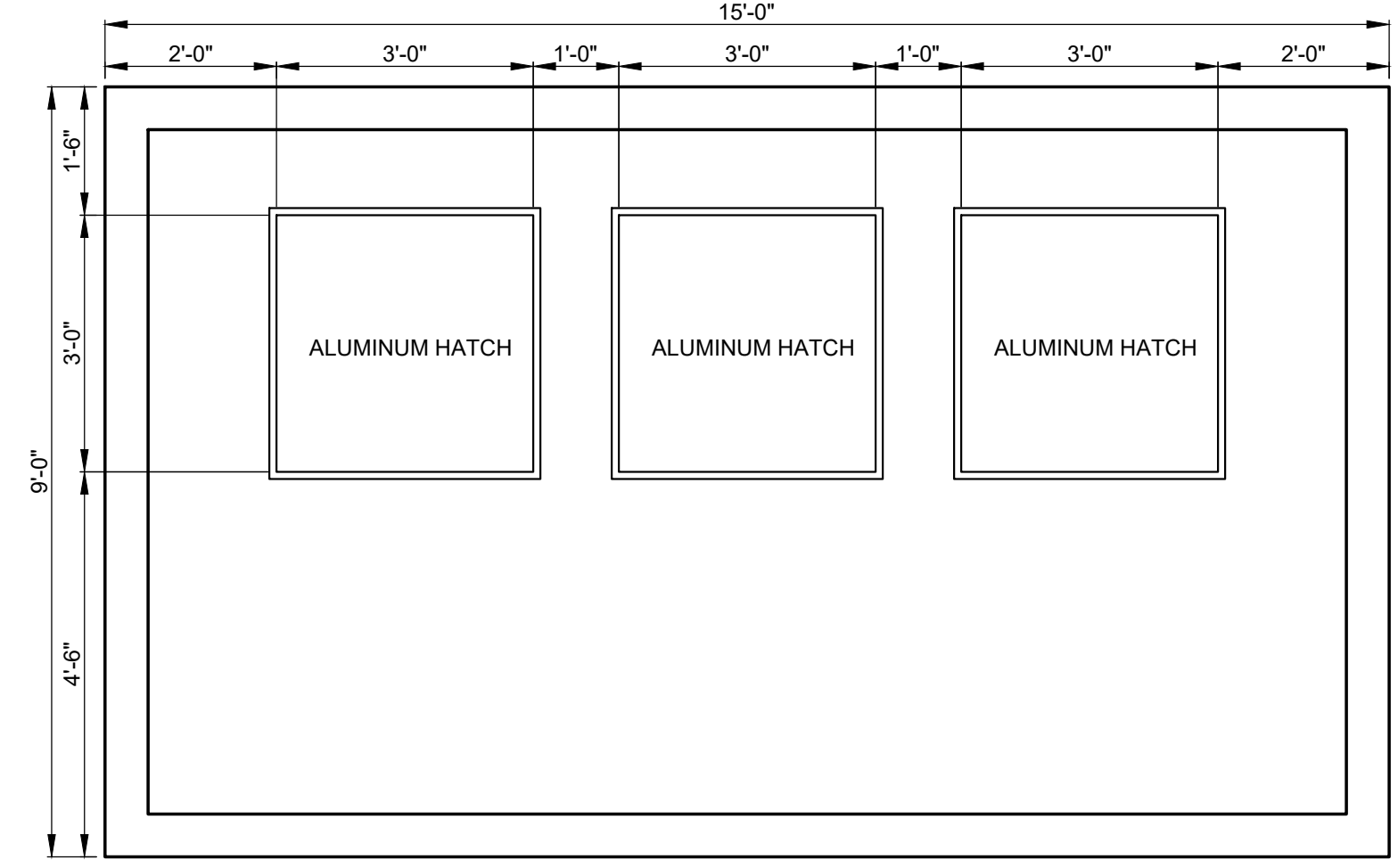
S - 2, S - 3, S - 4 VALVE BOX TOP PLAN
SCALE: 1/2" = 1'-0"



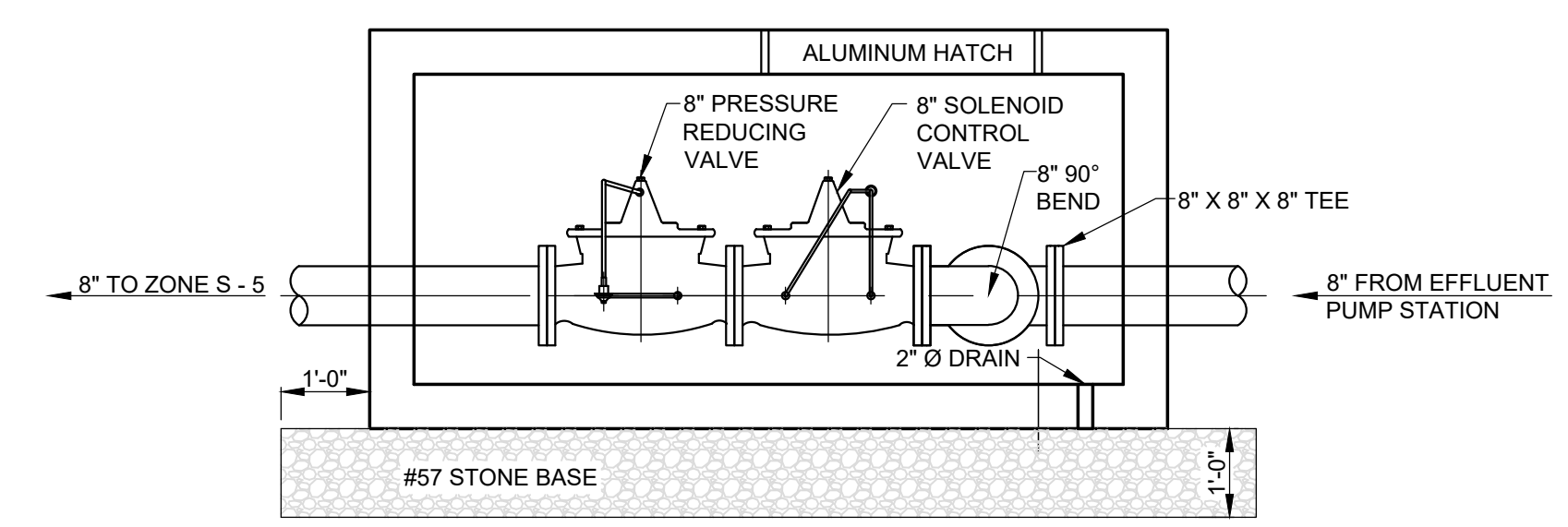
S - 2, S - 3, S - 4 VALVE BOX SECTION
SCALE: 1/2" = 1'-0"



S - 5, S - 6, S - 7, S - 8 VALVE BOX PLAN
SCALE: 1/2" = 1'-0"



S - 5, S - 6, S - 7, S - 8 VALVE BOX TOP PLAN
SCALE: 1/2" = 1'-0"

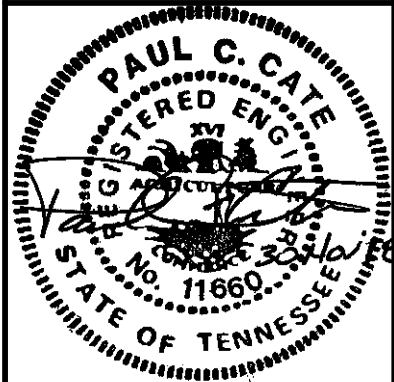
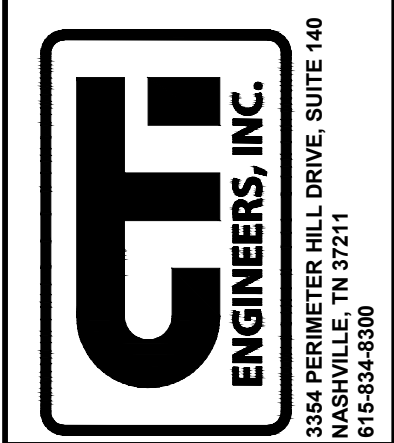


S - 5, S - 6, S - 7, S - 8 VALVE BOX SECTION
SCALE: 1/2" = 1'-0"

REVISIONS		DESIGN	DATE	BY	APPD
NO.	DESCRIPTIONS	PCC			
		DRAWN			
		CHECKED			
		APPROVED			
		PCC			

WASTEWATER TREATMENT PLANT EXPANSION
BLEDSOE COUNTY CORRECTIONAL COMPLEX
PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

CONTROL VALVE BOX
ZONE S-1, S-2, S-3, S-4, S-5, S-6, S-7, S-8
PLAN, SECTIONS, AND DETAIL



JOB NO. N16003
ISSUE DATE November 30, 2018
SCALE AS NOTED
DRAWING NO. M-1315

A. STRUCTURAL GENERAL NOTES

1. WORK SHALL COMPLY WITH THE 2012 INTERNATIONAL BUILDING CODE.
2. SECTIONS AND DETAILS SHOWN ON DRAWINGS ARE TYPICAL. USE SIMILAR CONSTRUCTION AT LOCATIONS NOT SPECIFICALLY DETAILED.
3. EXAMINE AND COMPARE STRUCTURAL DRAWINGS WITH ALL OTHER TRADES. VERIFY LOCATIONS AND DIMENSIONS OF CHASES, INSERTS, OPENINGS, PIPE PENETRATIONS, SLEEVES, DEPRESSIONS, AND OTHER PROJECT REQUIREMENTS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
4. VERIFY LOCATION OF EXISTING UNDERGROUND SITE UTILITIES PRIOR TO THE START OF WORK AND COORDINATE LOCATION WITH STRUCTURAL DRAWINGS. NOTIFY THE DESIGNER OF ANY CONFLICTS IN WRITING. DO NOT PROCEED WITH AFFECTED WORK UNTIL CONFLICTS HAVE BEEN RESOLVED.
5. ADEQUATE TEMPORARY BRACING OF CONSTRUCTION ELEMENTS SHALL BE PROVIDED FOR FOUNDATIONS, ABOVE GRADE WALLS, STRUCTURAL STEEL AND OTHER STRUCTURAL SYSTEMS, FOR WIND AND/OR CONSTRUCTION LOADS. BRACING SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION OPERATIONS PRIOR TO STRUCTURAL ELEMENTS REACHING THEIR SPECIFIED DESIGN STRENGTH AND/OR REACHING THEIR COMPLETED FORM AS SHOWN ON THE CONTRACT DRAWINGS. DESIGN AND MAINTENANCE OF SAID BRACING SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
6. DESIGN, INSTALLATION AND MAINTENANCE OF SHEETING, SHORING OR BRACING REQUIRED TO PERFORM THIS WORK SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
7. FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS PRIOR TO THE START OF WORK. NOTIFY THE DESIGNER OF ANY DISCREPANCIES IN WRITING. DO NOT PROCEED WITH AFFECTED WORK UNTIL DISCREPANCIES HAVE BEEN RESOLVED.

B. STRUCTURAL FOUNDATION NOTES

1. FOUNDATION DESIGN IS BASED ON GEOTECHNICAL ENGINEERING REPORT BY GEOServices, LLC DATED JULY 12, 2016, PROJECT NO. 31-181330
2. NET ALLOWABLE BEARING PRESSURE = 3,000 P.S.F.
3. ALL STRUCTURAL FILL AND COMPACTION OF BACKFILL TO BE PER THE GEOTECHNICAL REPORT
4. WHERE BACKFILL IS PLACED ON BOTH SIDES OF FOUNDATION WALL, CARE SHALL BE TAKEN DURING THE BACKFILLING OPERATIONS TO INSTALL BACKFILL EVENLY ON OPPOSITE FACE OF THE WALL. THE MAXIMUM DIFFERENTIAL OF FILL HEIGHT SHALL BE 12 INCHES. DO NOT DAMAGE WALL CONSTRUCTION WITH COMPACTION EQUIPMENT.
5. BACKFILL TO TOP OF FOOTINGS AS SOON AS POSSIBLE AFTER PLACING CONCRETE
6. UNSUITABLE SUBGRADE, IF ENCOUNTERED, WILL BE UNDERCUT AND REPLACED WITH MATERIAL AS ORDERED BY THE GEOTECHNICAL ENGINEER.
7. FOUNDATIONS OR SLABS SHALL NOT BE PLACED IN WATER, ON SATURATED SUBGRADE, OR ON FROZEN SUBGRADE. IN-PLACE FOUNDATIONS AND SLABS SHALL BE PROTECTED FROM FROST PENETRATION UNTIL PROJECT IS COMPLETE.
8. FOUNDATION ELEMENTS SHALL BE CENTERED IN EACH DIRECTION UNDER SUPPORTED STRUCTURAL MEMBERS UNLESS NOTED OTHERWISE ON THE DRAWINGS. MINIMUM FOOTING PROJECTION SHALL BE 1'-0" U.O.N.
9. THE CONTRACTOR SHALL PROVIDE STABLE SIDES AND BOTTOM OF EXCAVATION DURING CONSTRUCTION BY SHORES, SLOPES, OR BENCHED SIDES. THE DESIGN AND INSTALLATION OF THE EXCAVATION BRACING SHALL BE IN ACCORDANCE WITH O.S.H.A. SHORING PRACTICES AND BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

C. STRUCTURAL CONCRETE

1. CONCRETE WORK SHALL CONFORM TO REQUIREMENTS OF THE AMERICAN CONCRETE INSTITUTE (ACI) 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE", ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", AND ACI 350, "CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING STRUCTURES"
2. CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4000 PSI, UN
3. SEE SPECIFICATION SECTION 03 30 00 FOR MIX DESIGN, CONCRETE ACCESSORIES, AND ALL OTHER CONCRETE REQUIREMENTS.
4. CHAMFER EXPOSED CORNERS OF CONCRETE 3/4 INCH.
5. CONCRETE CLEAR COVER DIMENSIONS OVER REINFORCEMENT ARE 3 INCHES FOR FACES CAST AGAINST EARTH AND 2 INCHES FOR ALL OTHER FACES UNLESS NOTED OTHERWISE ON PLANS OR SECTIONS.
6. FOR TESTING REQUIREMENTS SEE SPECIFICATIONS.

D. CURING AND PROTECTION

1. GENERAL. PROTECT FRESHLY PLACED CONCRETE FROM PREMATURE DRYING AND EXCESSIVE COLD OR HOT TEMPERATURES. IN HOT, DRY, AND WINDY WEATHER, PROTECT CONCRETE FROM RAPID MOISTURE LOSS BEFORE AND DURING FINISHING OPERATIONS WITH AN EVAPORATION-CONTROL MATERIAL. APPLY IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AFTER SCREEDING AND BULL FLOATING, BUT BEFORE POWER FLOATING AND TROWELING.
2. INITIAL CURING. START INITIAL CURING AS SOON AS FREE WATER HAS DISAPPEARED FROM CONCRETE SURFACE AFTER PLACING AND FINISHING.
3. CURING METHODS. PERFORM CURING OF CONCRETE BY CURING AND SEALING COMPOUND, BY MOIST CURING, BY MOISTURE-RETAINING COVER CURING, OR BY COMBINATIONS THEREOF. SUBMIT METHOD AND ANY PRODUCTS USED TO DESIGNER FOR APPROVAL. SEE SPECIFICATIONS.

E. MASONRY

1. MASONRY CONSTRUCTION SHALL CONFORM TO ACI 530.1, "SPECIFICATION FOR MASONRY CONSTRUCTION", U.O.N.
2. FOR MASONRY STRENGTH, MORTAR, REINFORCEMENT, ETC., SEE SPECIFICATION SECTION 04 20 00.
3. COORDINATE WITH ARCHITECTURAL AND OTHER TRADES FOR ALL MASONRY OPENINGS AND PENETRATIONS.
4. COORDINATE WITH ARCHITECTURAL FOR ALL FINISHES.

F. STRUCTURAL STEEL & ALUMINUM FRAMING

1. FABRICATE AND ERECT STRUCTURAL STEEL IN ACCORDANCE WITH A.I.S.C. "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS"
2. STEEL AND ALUMINUM FRAMING MEMBERS HAVE BEEN PROPORTIONED UTILIZING ALLOWABLE STRESS DESIGN (ASD) METHODS AS PRESCRIBED BY A.I.S.C. AND THE ALUMINUM ASSOCIATION, RESPECTIVELY.
3. COORDINATE ALL FABRICATION AND ERECTION REQUIREMENTS WITH SPECIFICATION SECTION 05 50 00.
4. PROVIDE TEMPORARY ERECTION BRACING AND SUPPORTS TO HOLD FRAMING SECURELY IN POSITION. SUCH TEMPORARY BRACING AND SUPPORTS SHALL NOT BE REMOVED UNTIL PERMANENT BRACING HAS BEEN INSTALLED AND CONCRETE FLOOR SLABS HAVE ATTAINED 75% OF SPECIFIED STRENGTH.
5. FIELD CUTTING, FIELD MODIFICATIONS, OR FIELD WELDING (UNLESS SPECIFICALLY SHOWN ON DRAWINGS) OF STRUCTURAL FRAMING SHALL NOT BE MADE WITHOUT PRIOR WRITTEN APPROVAL BY DESIGNER FOR EACH SPECIFIC CASE.
6. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL PLATES, CLIP ANGLES, CONNECTION MATERIALS, ETC. AS REQUIRED FOR COMPLETION OF THE STRUCTURE, EVEN IF SUCH ITEMS ARE NOT SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS.

DESIGN CRITERIA

BUILDING CODE
2012 INTERNATIONAL BUILDING CODE
WIND, SEISMIC AND SNOW PER ASCE 7-10

FLOOR LIVE LOAD
EQUIPMENT AREAS: 250 P.S.F. OR 3 KIPS CONCENTRATED
OFFICE & PERSONNEL ASSEMBLY AREAS: 100 P.S.F. OR 2 KIPS CONCENTRATED
STAIRS & EXITS: 100 P.S.F. OR 3 KIPS CONCENTRATED
WALKWAYS & ELEVATED PLATFORMS: 60 P.S.F.

ROOF LIVE LOAD
MINIMUM ROOF LIVE LOAD: 20 P.S.F.

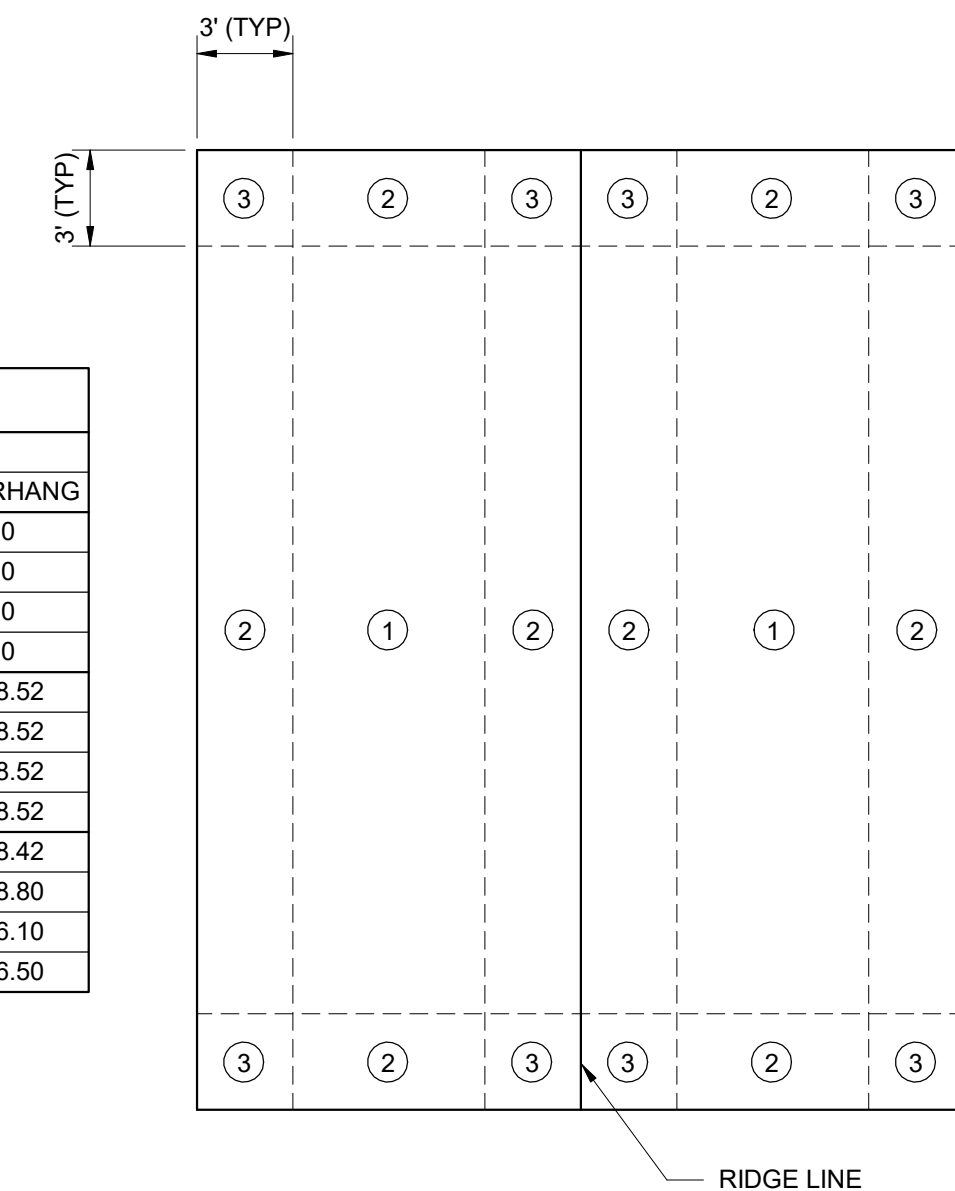
ROOF SNOW LOAD DATA
GROUND SNOW (F_g): 10 P.S.F.
FLAT ROOF SNOW (F_f): 10 P.S.F.
SNOW EXPOSURE (C_e): 1.1
SNOW LOAD IMPORTANCE FACTOR (I_s): 1.1
THERMAL FACTOR (C_t): 1.1

WIND DESIGN DATA
ULTIMATE DESIGN WIND SPEED (V_{ult}): 120 M.P.H.
NOMINAL DESIGN WIND SPEED (V_{nom}): 93 M.P.H.
RISK CATEGORY: III
WIND EXPOSURE: C
INTERNAL PRESSURE COEFFICIENT: ± 0.18
DESIGN WIND PRESSURES - EXTERIOR COMPONENT AND CLADDING: SEE DIAGRAMS AND DETAILS

EARTHQUAKE DESIGN DATA
RISK CATEGORY: III
SEISMIC IMPORTANCE FACTOR (I_h): 1.25
MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS
 S_s : 26.8%g
 S_1 : 11.5%g
SITE CLASS: C
DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS
 S_{ms} : 21.4%g
 S_{m1} : 12.9%g
SEISMIC DESIGN CATEGORY: B
BASIC SEISMIC FORCE-RESISTING SYSTEM: VARIES PER STRUCTURE
DESIGN BASE SHEAR: VARIES PER STRUCTURE
SEISMIC RESPONSE COEFFICIENT (C_s): VARIES PER STRUCTURE
RESPONSE MODIFICATION COEFFICIENT (R): VARIES PER STRUCTURE
ANALYSIS PROCEDURE: EQUIVALENT STATIC FORCE PROCEDURE

BUILDING ROOF PRESSURES				
ZONE	EFFECTIVE AREA, FT ²	PRESSURE (PSF)		
		POSITIVE	NEGATIVE	OVERHANG
1	10	18.09	-28.73	0
	20	16.48	-27.93	0
	50	14.36	-26.87	0
	100	12.77	-26.07	0
2	10	18.09	-50.01	-58.52
	20	16.48	-46.01	-58.52
	50	14.36	-40.72	-58.52
	100	12.77	-36.71	-58.52
3	10	18.09	-73.95	-98.42
	20	16.48	-69.14	-88.80
	50	14.36	-62.79	-76.10
	100	12.77	-57.99	-66.50

NOTE: VALUES SHOWN ARE UNFACTORED PER IBC 2012/2015/ASCE 7-10



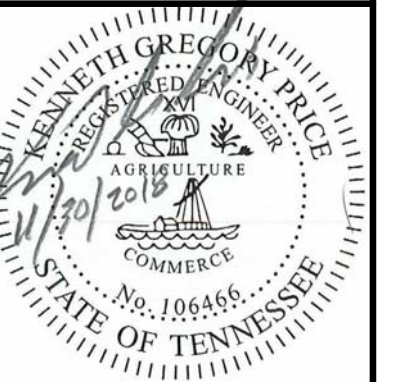
1 BUILDING ROOF PRESSURES
1" = 1'-0"

NO.	DESCRIPTIONS	REVISIONS	
		DATE	BY

DESIGNED: KGP
DRAWN: KGP
CHECKED: PCC
APPROVED: NH

WASTEWATER TREATMENT PLANT EXPANSION
BLEDSOE COUNTY CORRECTIONAL COMPLEX
PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

GENERAL
NOTES AND DIAGRAMS



JOB NO.
N16003

ISSUE DATE
NOVEMBER 30, 2018

SCALE
As indicated

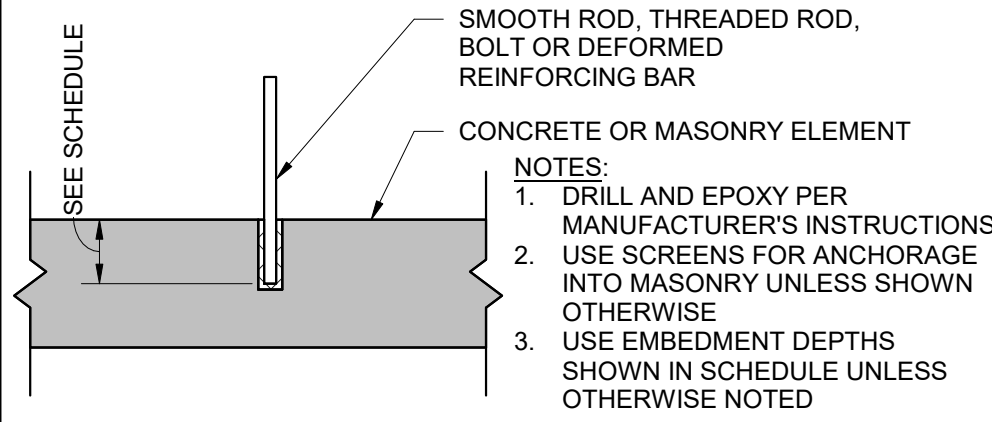
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S-001

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DOWEL / EPOXY BOLT EMBEDMENT DEPTHS	
DIAMETER / BAR SIZE	EMBED
3/8" / #3	4 1/2"
1/2" / #4	6"
5/8" / #5	7 1/2"
3/4" / #6	9"
7/8" / #7	10 1/2"
1" / #8	1" - 0"

SCHEDULE	
BAR SIZE	LAP LENGTH
#4	2' - 0"
#5	2' - 6"
#6	3' - 0"
#7	3' - 6"
#8	4' - 0"

- NOTES:
- USE LAP LENGTHS FROM SCHEDULE UNLESS OTHERWISE NOTED IN PLAN, SECTION OR DETAIL
 - LAP LENGTHS ARE MINIMUMS

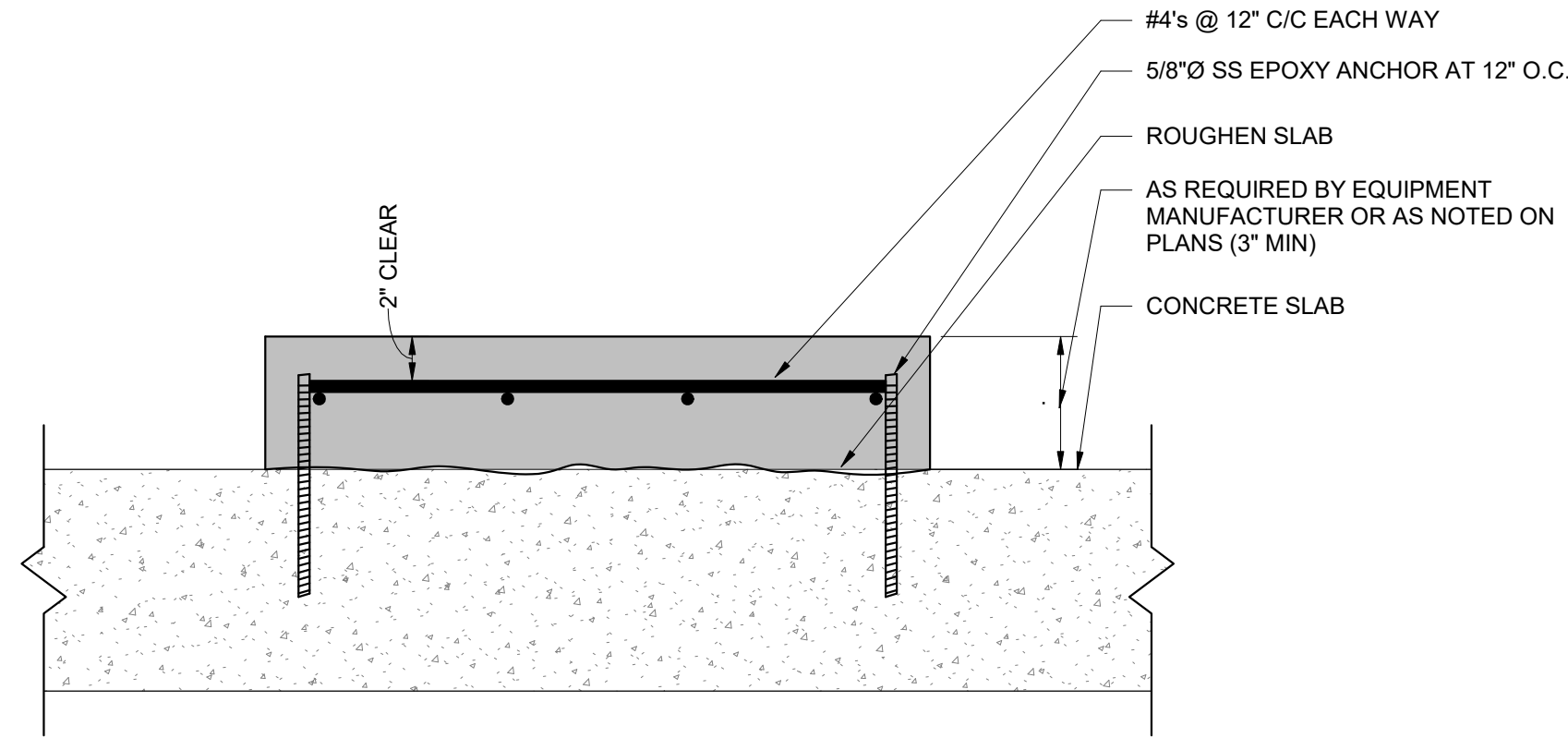


1 EPOXY DOWEL
NOT TO SCALE

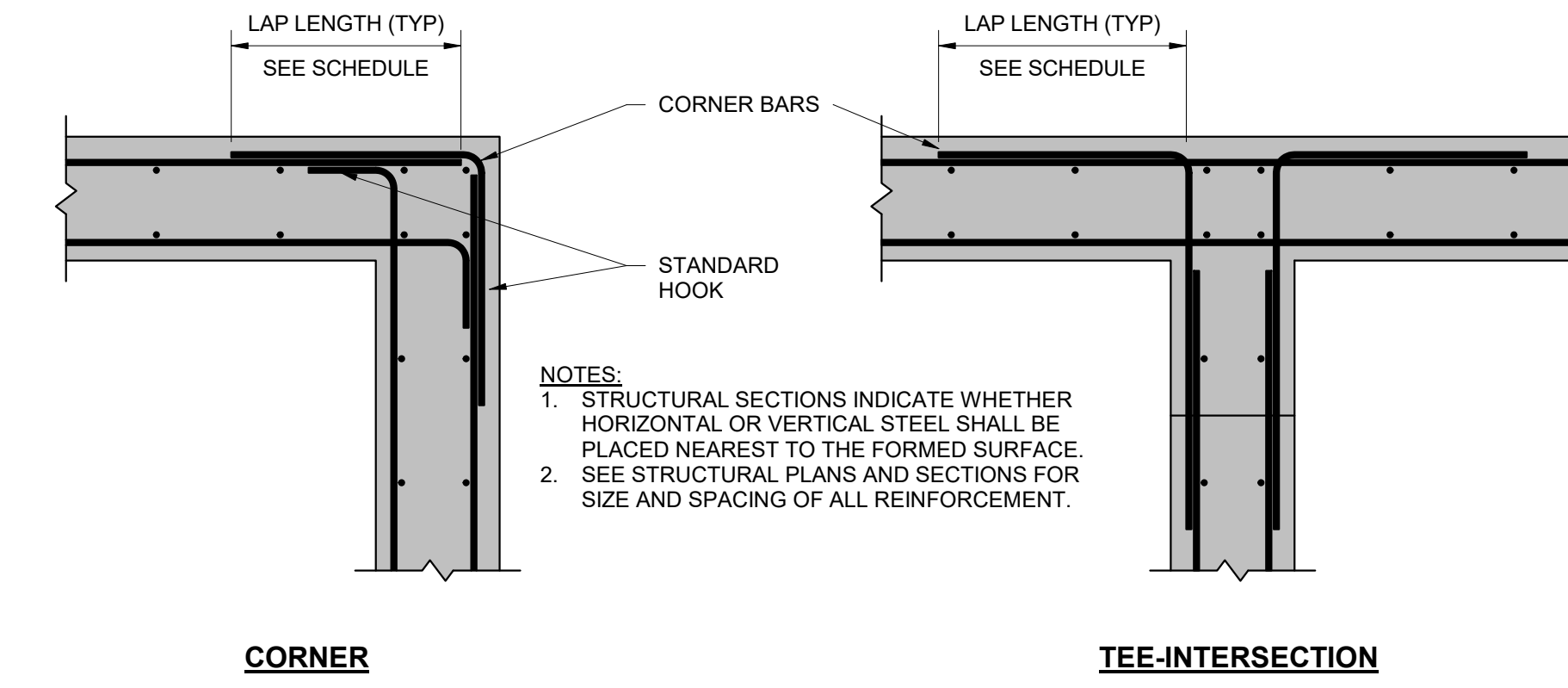
2 REINFORCING BAR LAP
NOT TO SCALE

3 WALL AND SLAB OPENINGS OR PENETRATIONS
NOT TO SCALE

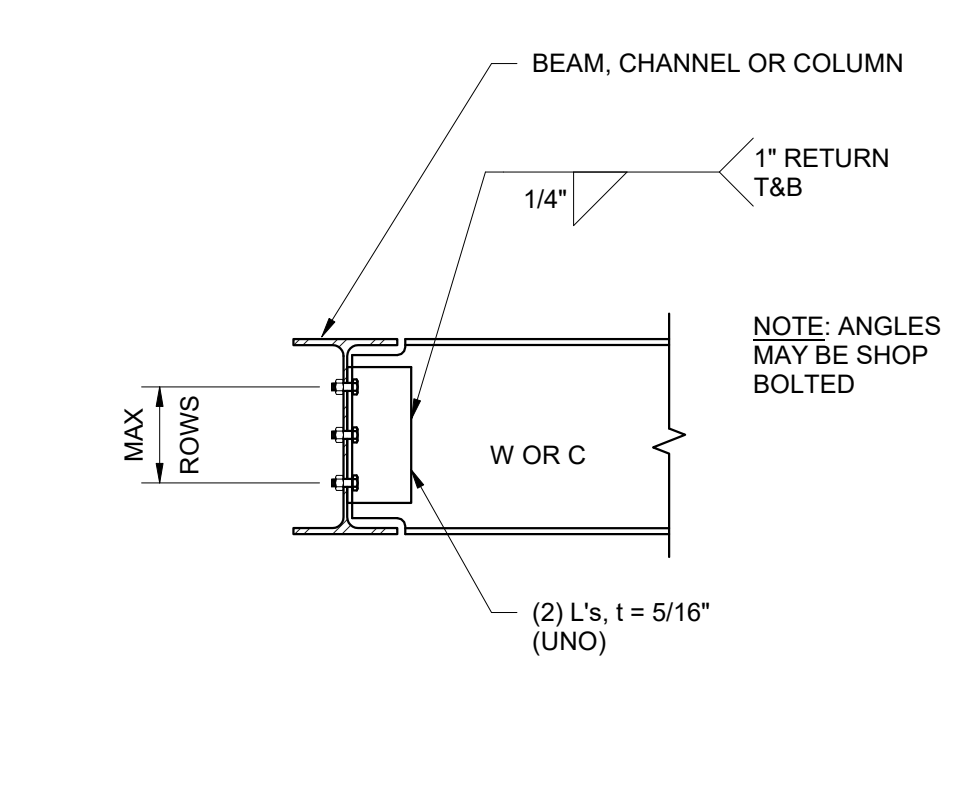
4 FLOOR GRATING FRAME
NOT TO SCALE



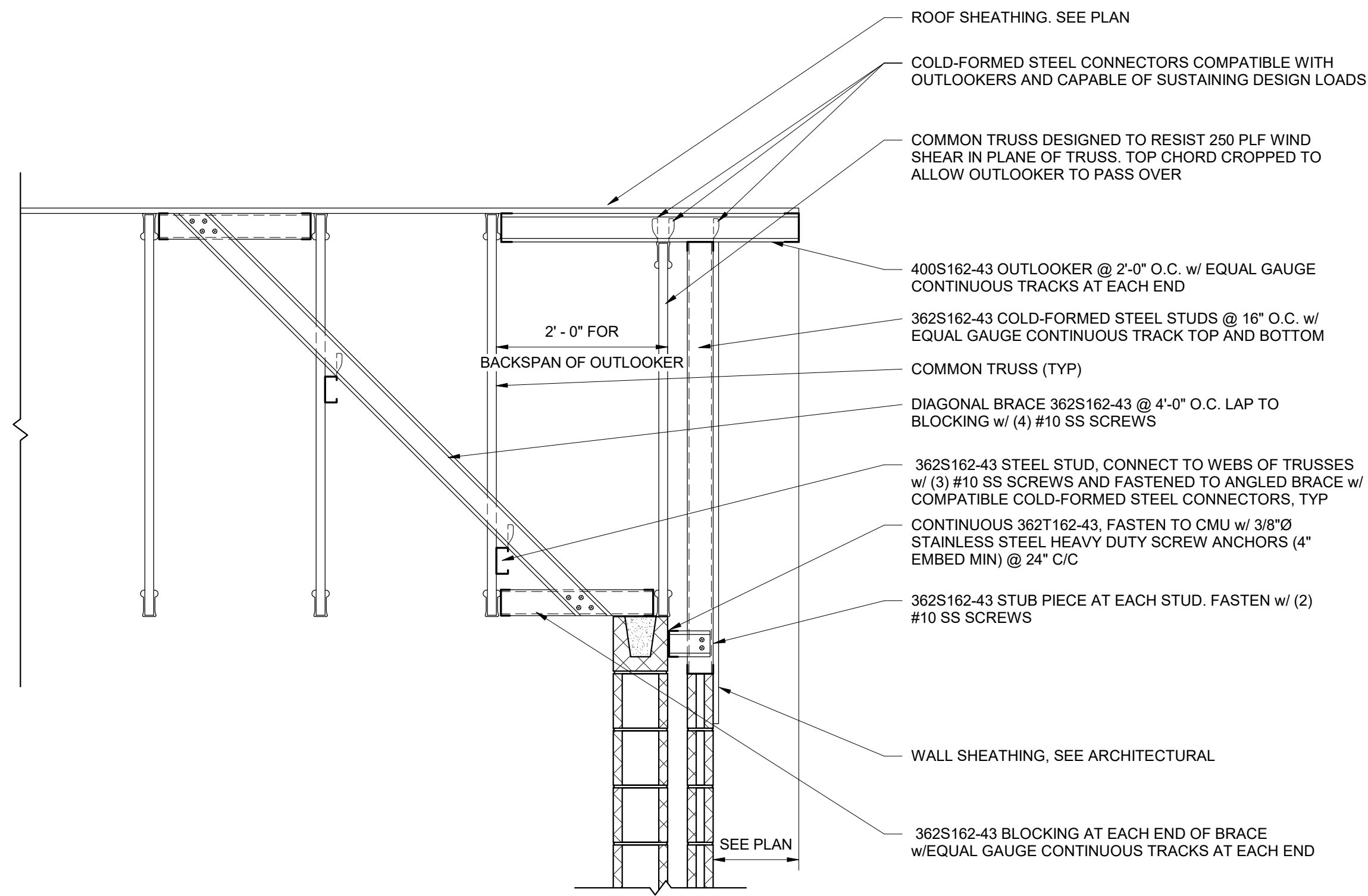
5 EQUIPMENT PAD
NOT TO SCALE



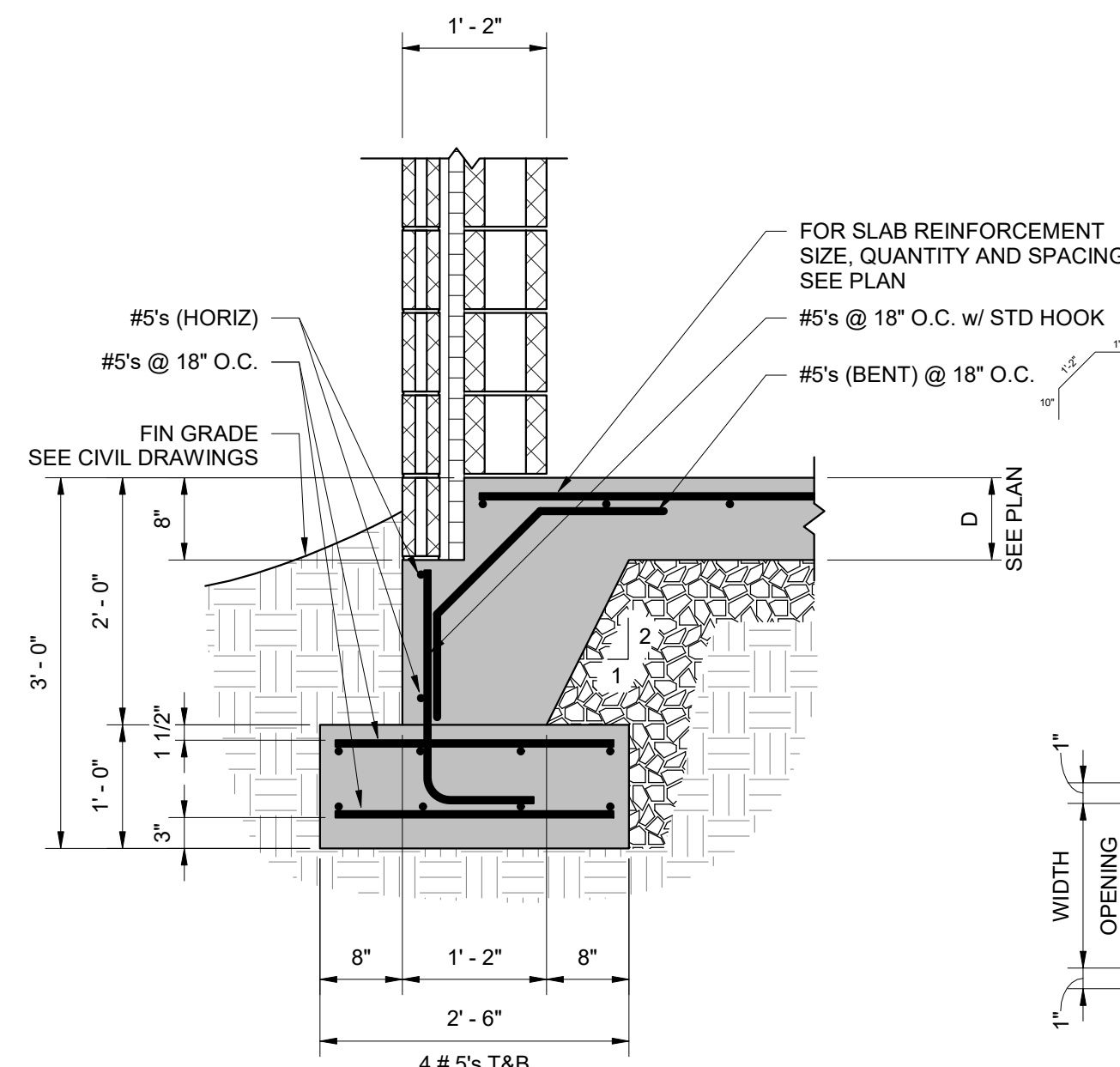
6 WALL REINFORCEMENT LAYOUT
NOT TO SCALE



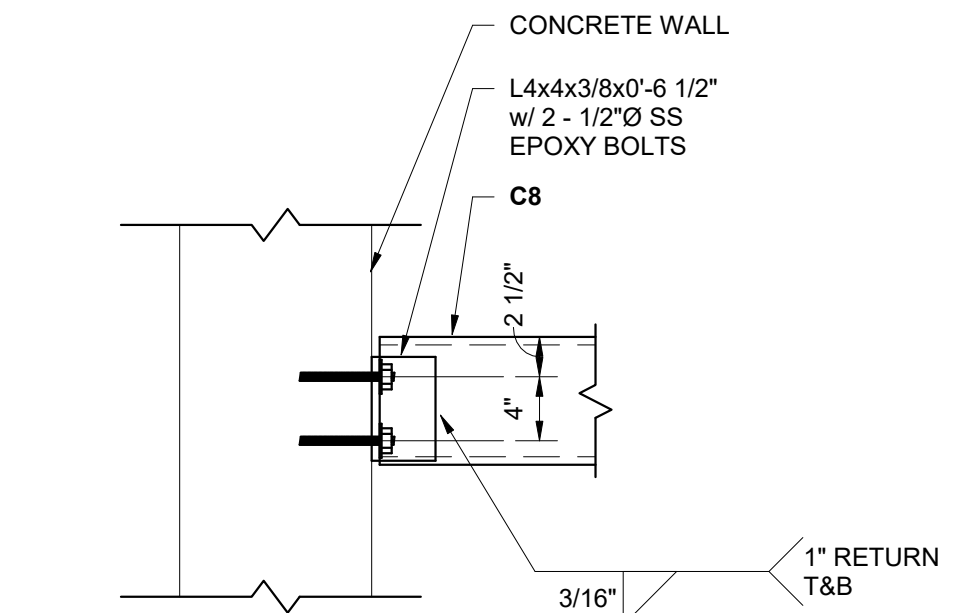
7 FRAMING CONNECTIONS
NOT TO SCALE



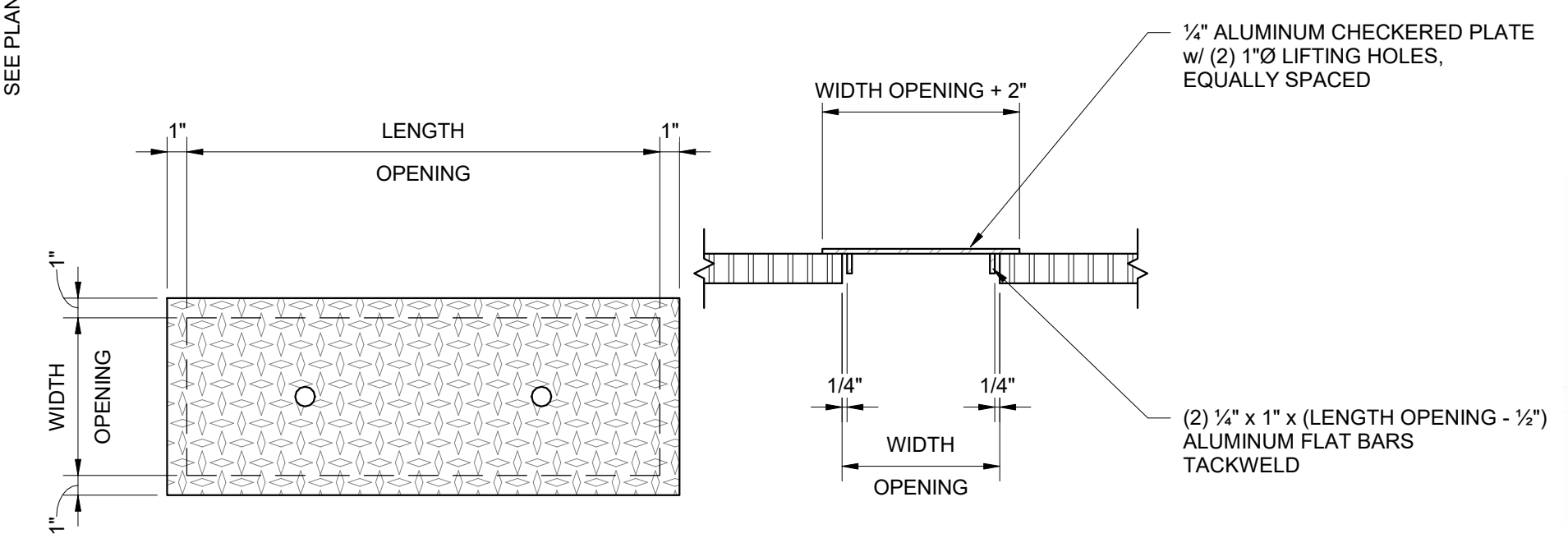
8 GABLE END WALL BRACING
NOT TO SCALE



9 WALL FOOTING
NOT TO SCALE



10 C8 TO CONCRETE
NOT TO SCALE



11 REMOVABLE OPENING COVER
NOT TO SCALE

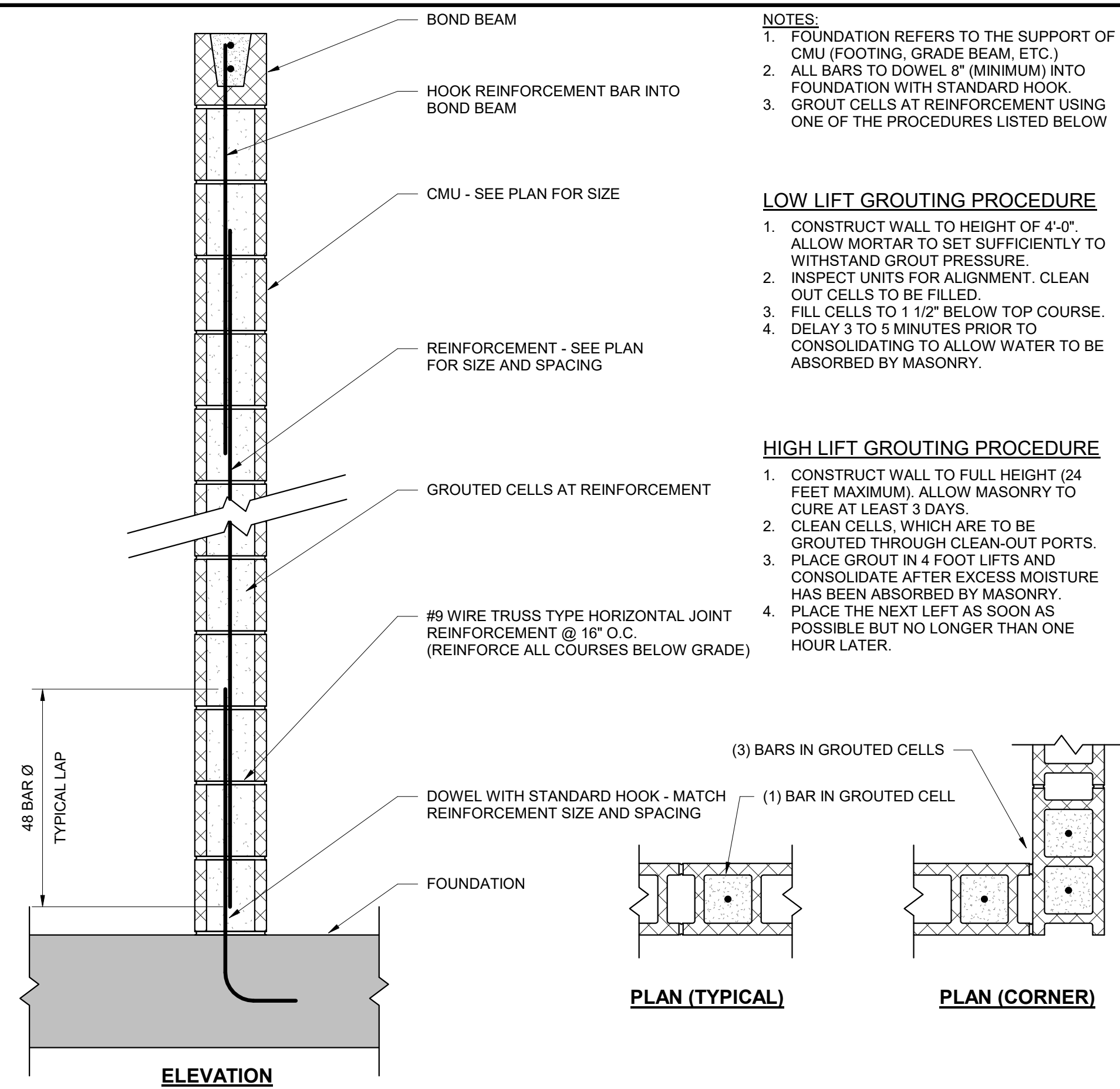
- NOTES:
- ANGLE FRAMES TO BE OF EXTRUDED DESIGN, ALLOY 6063-T6.
 - FRAMES SHALL HAVE MITRED CORNERS AND WELDED JOINTS AND SHALL BE SIZED TO MATCH GRATING DEPTH.
 - VERTICAL AND HORIZONTAL LEGS OF FRAME SHAPE SHALL HAVE 1/4 - 1/2 WALL THICKNESS. FRAME SHALL BE DESIGNED TO PROVIDE A CONTINUOUS SLOT TO ACCOMMODATE FASTENERS, AND SHALL HAVE A CONTINUOUS EXTRUDED ANCHOR.
 - ADDITIONAL ANCHOR STRAPS MAY BE SPECIFIED AT THE DISCRETION OF THE DESIGNER AT SPECIFIC LOCATIONS. SEE PLANS AND SECTIONS.
 - SURFACES COMING INTO CONTACT WITH CONCRETE SHALL BE PAINTED WITH ONE COAT OF BITUMINOUS PAINT.

NO.	REVISIONS	DATE	BY	APPD	DESIGNED	DRAWN	CHECKED	APPROVED
					KGP	KGP	PCC	NH
					WASTEWATER TREATMENT PLANT EXPANSION BLEDSOE COUNTY CORRECTIONAL COMPLEX PIKEVILLE, BLED SOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06 GENERAL TYPICAL DETAILS - SHEET 1			
					 ENGINEERS, INC. 306 PERIMETER HILL DRIVE, SUITE 140 NASHVILLE, TN 37211 615-634-8300			
					 KENNETH GREGORY PRICE LICENSED PROFESSIONAL ENGINEER No. 106605 STATE OF TENNESSEE			
					JOB NO. N16003 ISSUE DATE NOVEMBER 30, 2018 SCALE As indicated DRAWING NO. S-002			

DATE OF PRINT: 3/21/2019 6:54:55 AM

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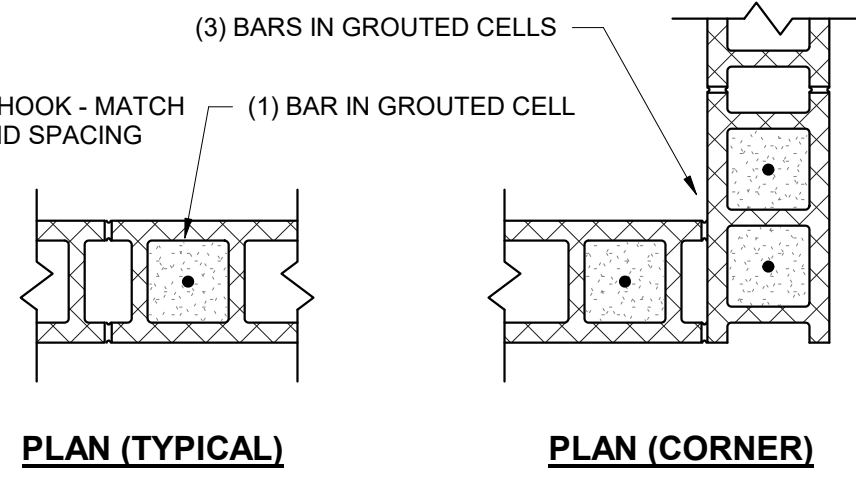
- NOTES:**
- FOUNDATION REFERS TO THE SUPPORT OF CMU (FOOTING, GRADE BEAM, ETC.)
 - ALL BARS TO DOWEL 8" (MINIMUM) INTO FOUNDATION WITH STANDARD HOOK.
 - GROUT CELLS AT REINFORCEMENT USING ONE OF THE PROCEDURES LISTED BELOW

LOW LIFT GROUTING PROCEDURE

- CONSTRUCT WALL TO HEIGHT OF 4'-0". ALLOW MORTAR TO SET SUFFICIENTLY TO WITHSTAND GROUT PRESSURE.
- INSPECT UNITS FOR ALIGNMENT. CLEAN OUT CELLS TO BE FILLED.
- FILL CELLS TO 1 1/2" BELOW TOP COURSE.
- DELAY 3 TO 5 MINUTES PRIOR TO CONSOLIDATING TO ALLOW WATER TO BE ABSORBED BY MASONRY.

HIGH LIFT GROUTING PROCEDURE

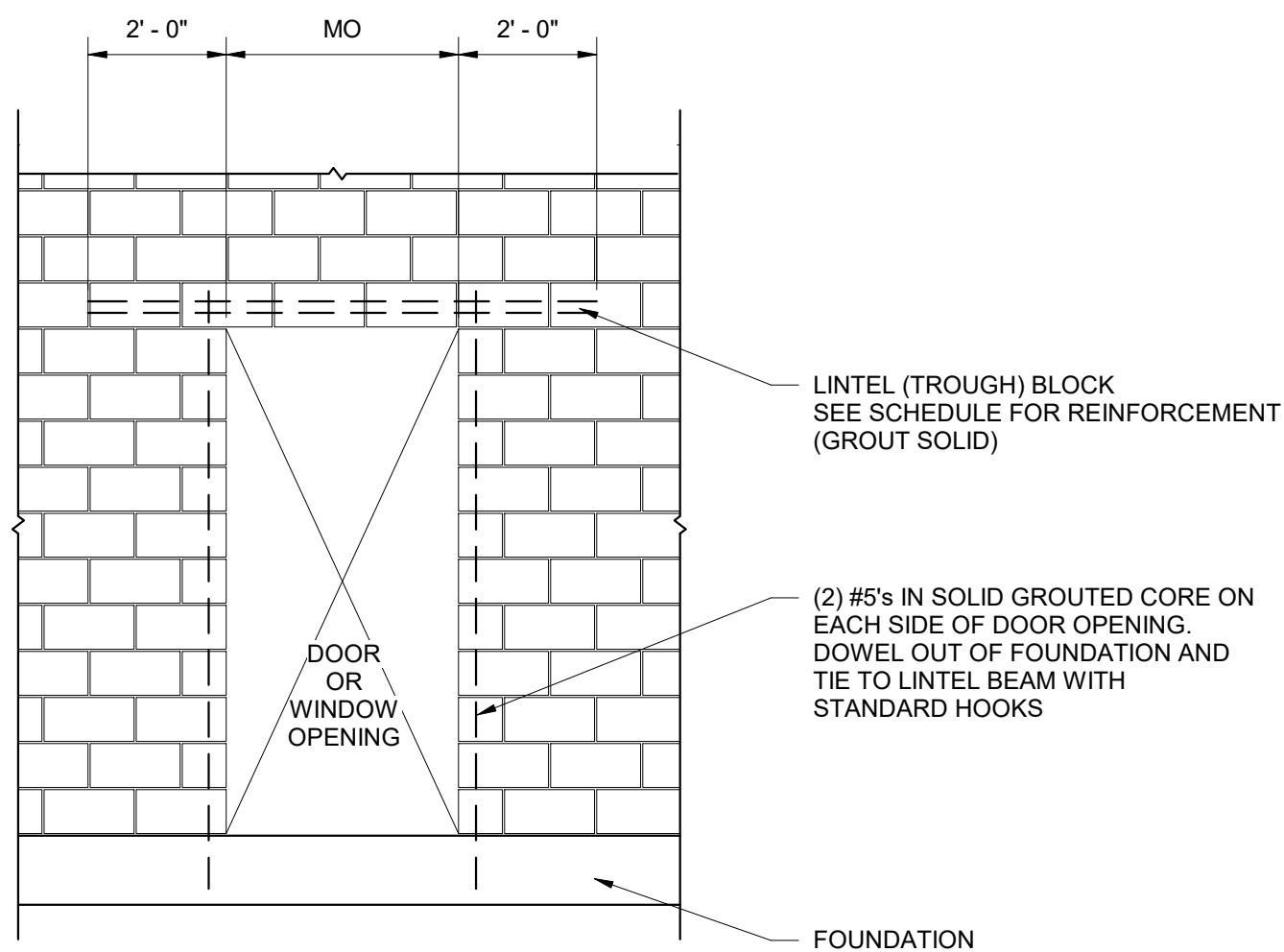
- CONSTRUCT WALL TO FULL HEIGHT (24 FEET MAXIMUM). ALLOW MASONRY TO CURE AT LEAST 3 DAYS.
- CLEAN CELLS, WHICH ARE TO BE GROUDED THROUGH CLEAN-OUT PORTS. PLACE GROUT IN 4 FOOT LIFTS AND CONSOLIDATE AFTER EXCESS MOISTURE HAS BEEN ABSORBED BY MASONRY.
- PLACE THE NEXT LIFT AS SOON AS POSSIBLE BUT NO LONGER THAN ONE HOUR LATER.



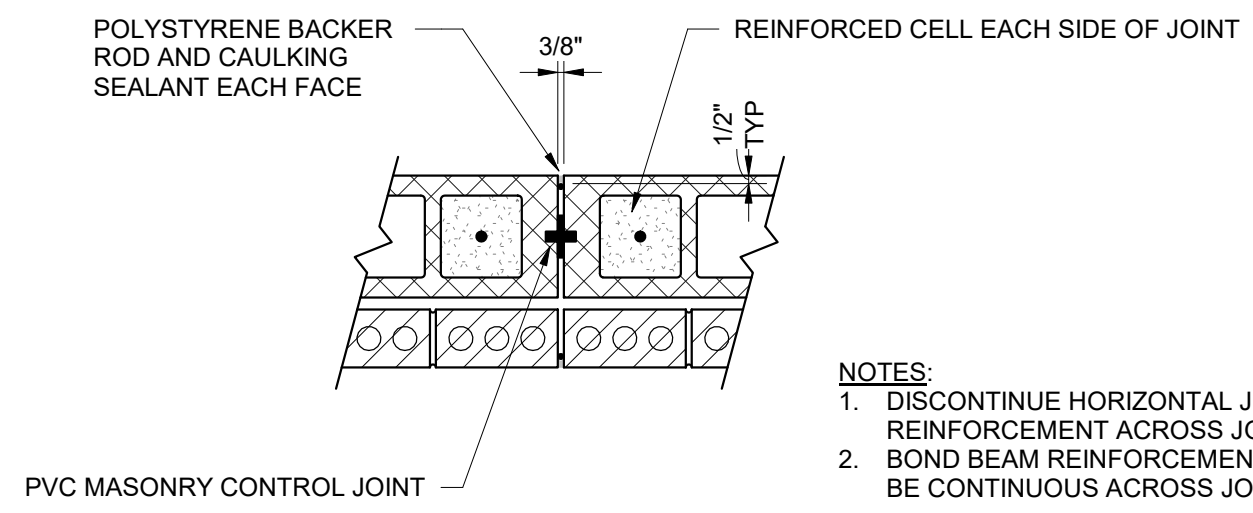
1 REINFORCED MASONRY CONSTRUCTION
NOT TO SCALE

CMU LINTEL SCHEDULE				
WALL THICKNESS	CLEAR SPAN	LINTEL DEPTH	BOTTOM REINFORCING	TOP REINFORCING
8"	UP TO 3'-0"	8"	2 # 4	---
8"	UP TO 5'-0"	8"	2 # 4	2 # 4
8"	UP TO 6'-0"	16"	2 # 5	2 # 4
12"	UP TO 4'-0"	8"	2 # 4	2 # 4
12"	UP TO 6'-0"	16"	2 # 4	2 # 4
12"	UP TO 8'-0"	16"	2 # 5	2 # 4
12"	UP TO 10'-0"	16"	2 # 6	2 # 5

- NOTES:**
- PRECAST LINTEL MAY BE USED. MATCH ADJOINING BLOCK IN CLOR AND TEXTURE.
 - CONSTRUCTION JOINT SHALL NOT BE LOCATED WITHIN BEARING WIDTH OF CMU LINTEL.

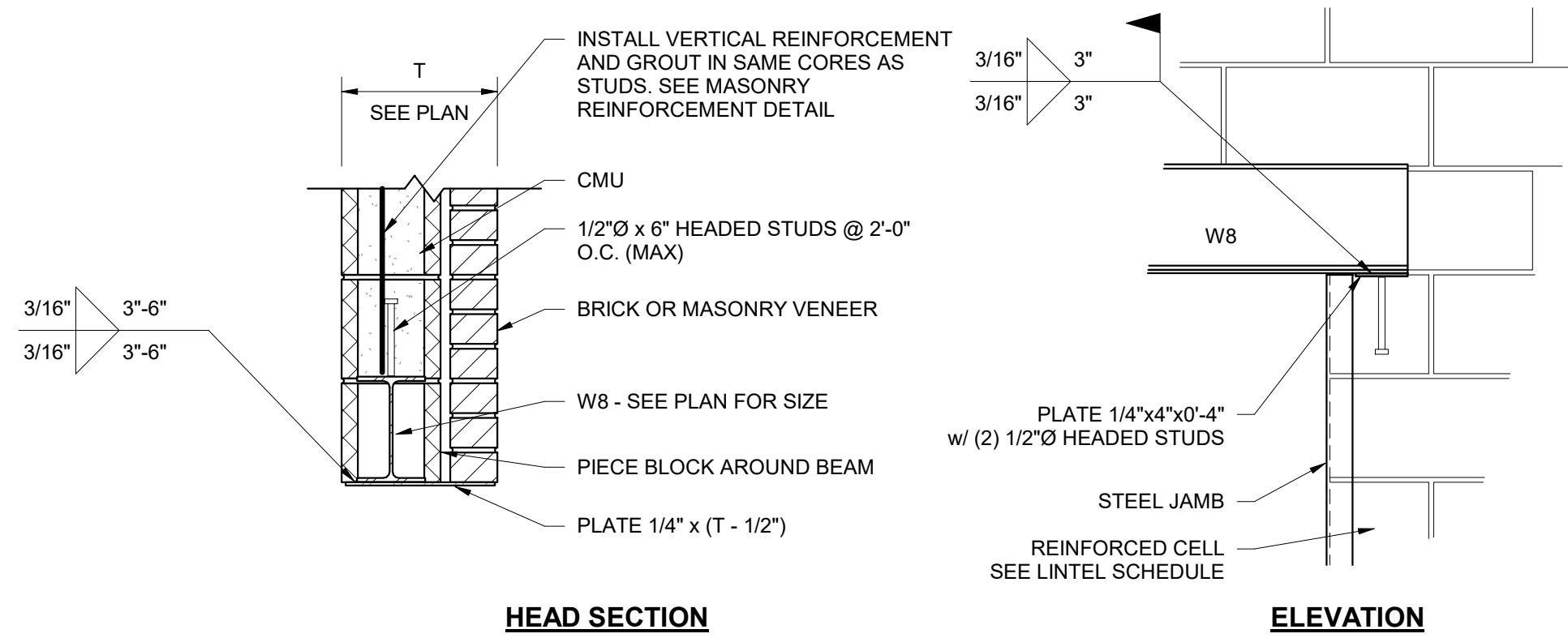


5 CMU LINTEL SCHEDULE/DETAIL
NOT TO SCALE

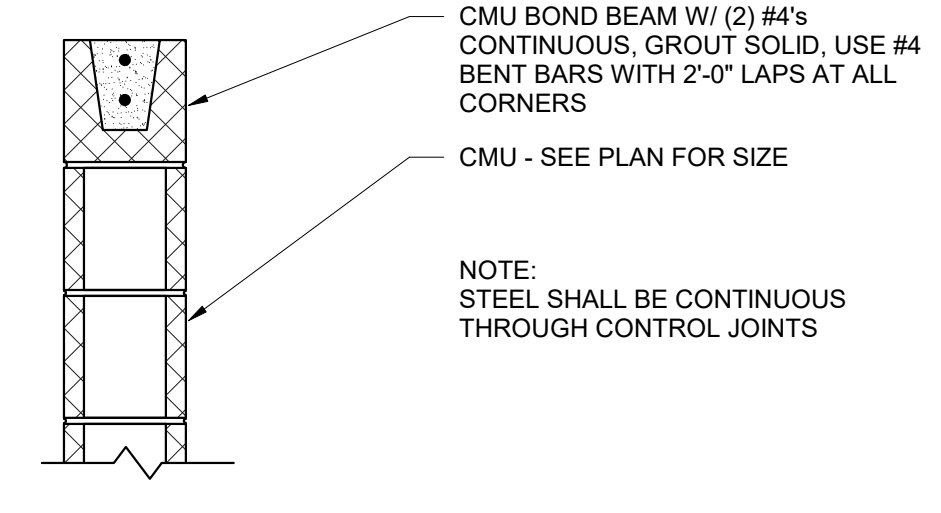


- NOTES:**
- DISCONTINUE HORIZONTAL JOINT REINFORCEMENT ACROSS JOINT
 - BOND BEAM REINFORCEMENT SHALL BE CONTINUOUS ACROSS JOINT

2 MASONRY CONTROL JOINT
NOT TO SCALE

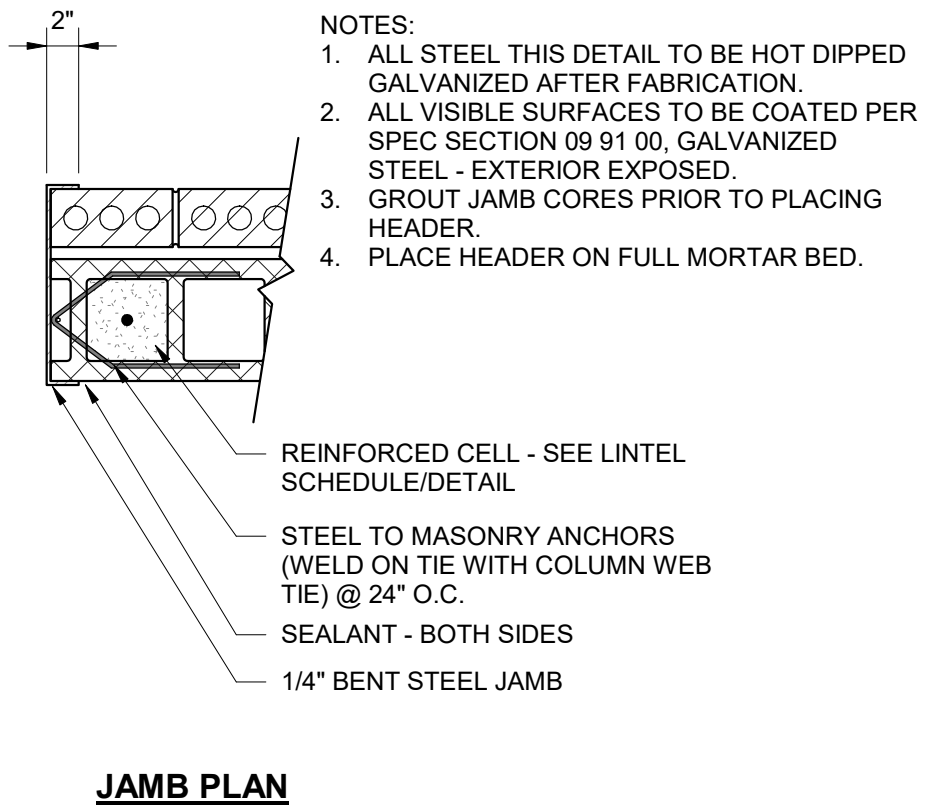


4 OVERHEAD DOOR OPENING
NOT TO SCALE



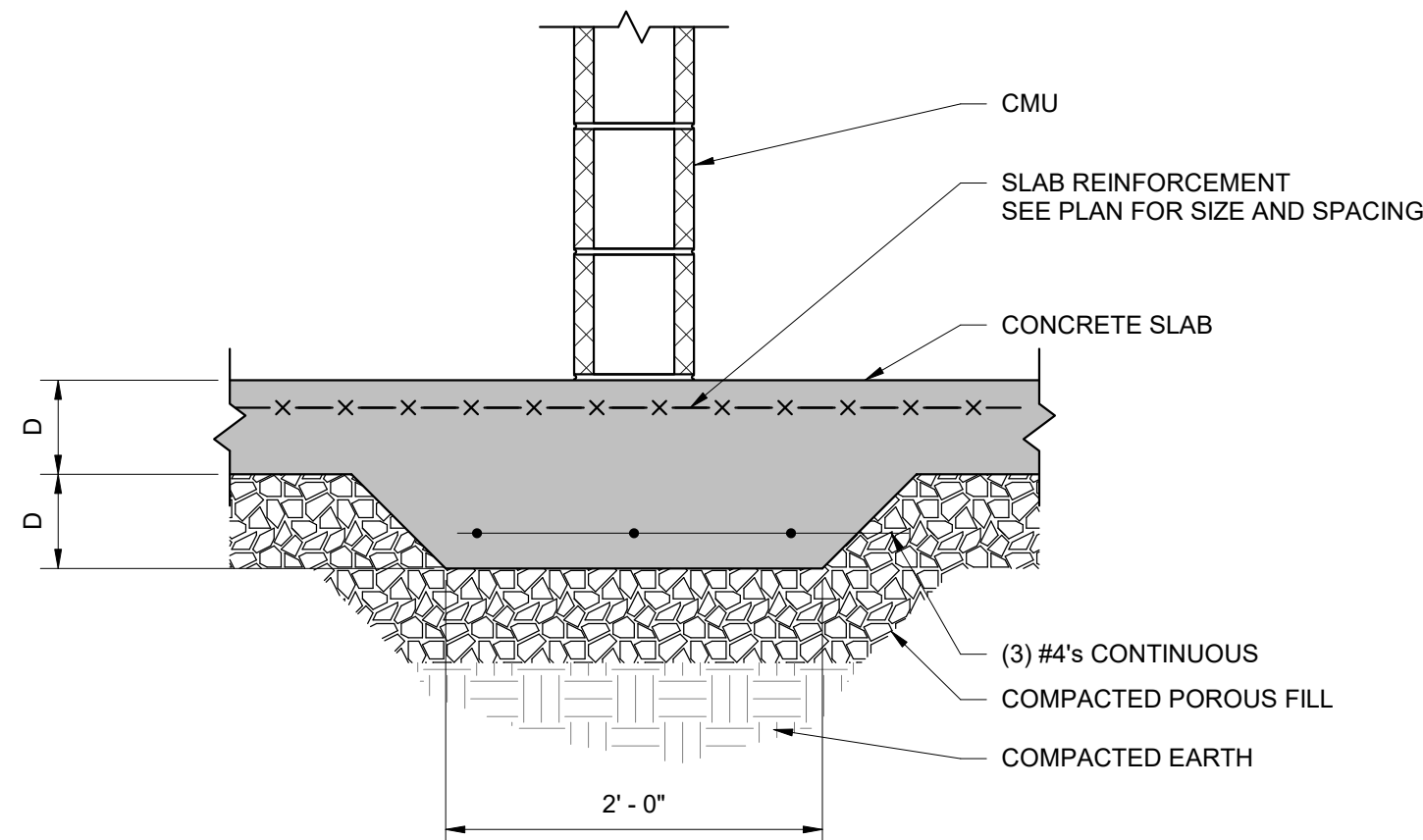
- NOTE:**
- STEEL SHALL BE CONTINUOUS THROUGH CONTROL JOINTS

3 BOND BEAM
NOT TO SCALE

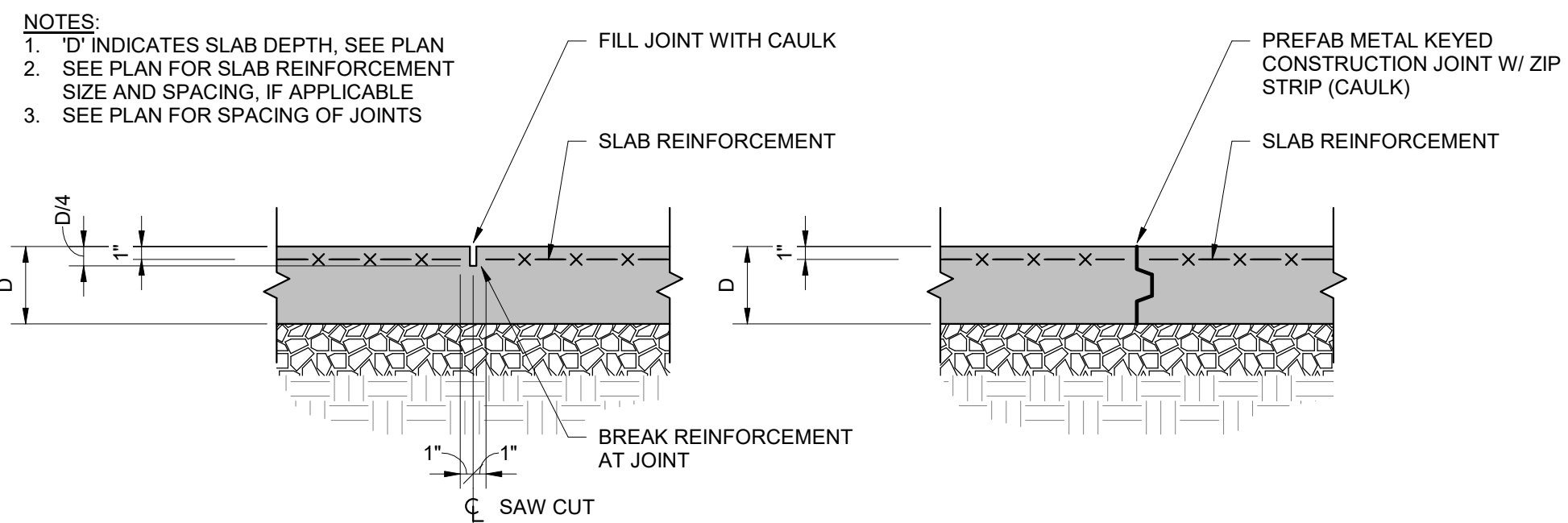


- NOTES:**
- ALL STEEL THIS DETAIL TO BE HOT DIPPED GALVANIZED AFTER FABRICATION
 - ALL VISIBLE SURFACES TO BE COATED PER SPEC SECTION 09 91 00, GALVANIZED STEEL - EXTERIOR EXPOSED.
 - GROUT JAMB CORES PRIOR TO PLACING HEADER.
 - PLACE HEADER ON FULL MORTAR BED.

JAMB PLAN



6 THICKENED SLAB
NOT TO SCALE

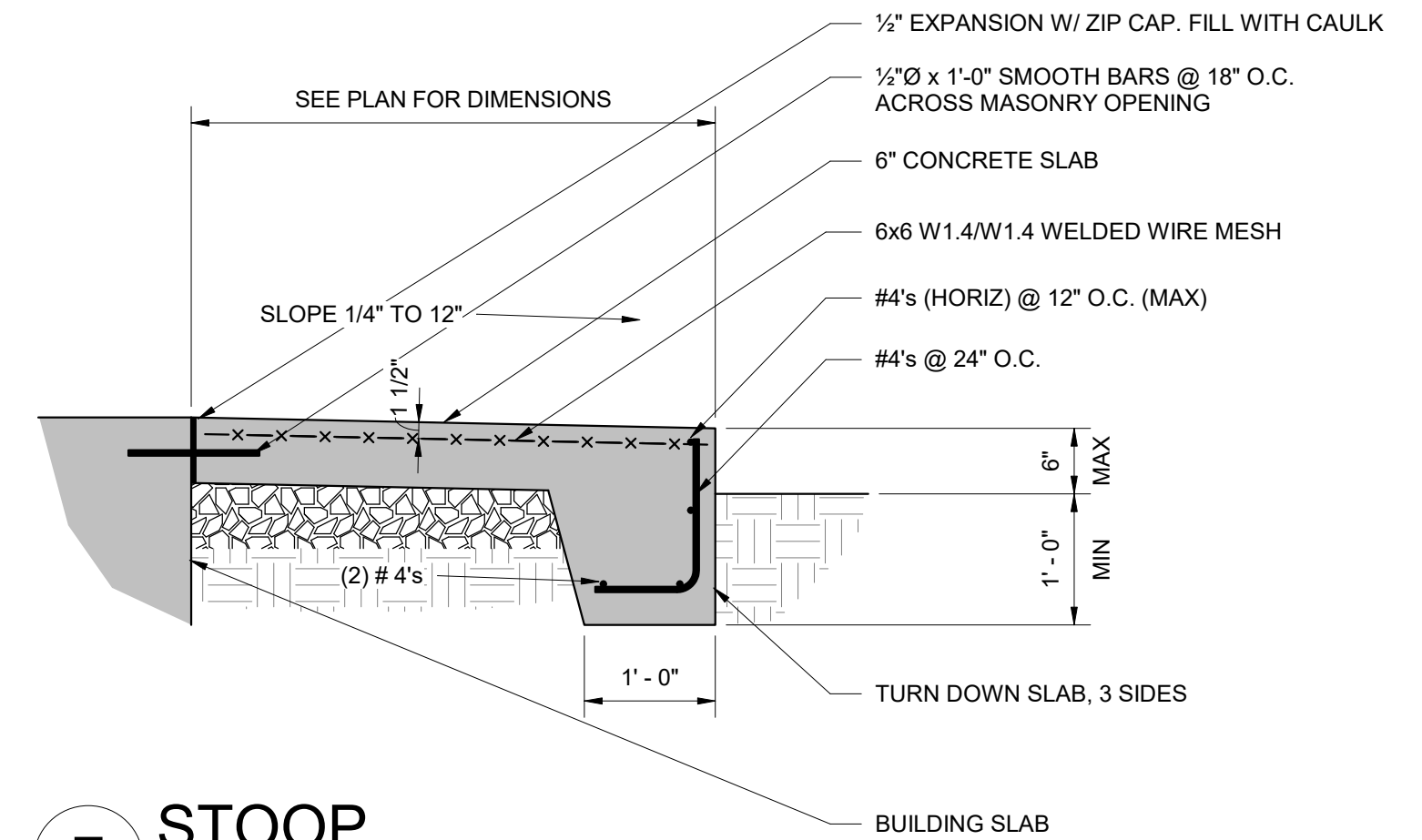


- NOTES:**
- 'D' INDICATES SLAB DEPTH, SEE PLAN
 - SEE PLAN FOR SLAB REINFORCEMENT SIZE AND SPACING, IF APPLICABLE
 - SEE PLAN FOR SPACING OF JOINTS

SAWED CONTROL JOINT

CONSTRUCTION JOINT

8 FLOOR JOINTS
NOT TO SCALE



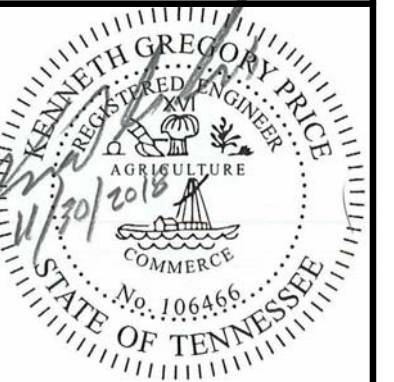
7 STOOP
NOT TO SCALE

NO.	DESCRIPTIONS	REVISIONS	
		DATE	BY

DESIGNED: KGP
DRAWN: KGP
CHECKED: PCC
APPROVED: NH

WASTEWATER TREATMENT PLANT EXPANSION
BLEDSOE COUNTY CORRECTIONAL COMPLEX
PIKEVILLE, BLED SOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

GENERAL
TYPICAL DETAILS - SHEET 2

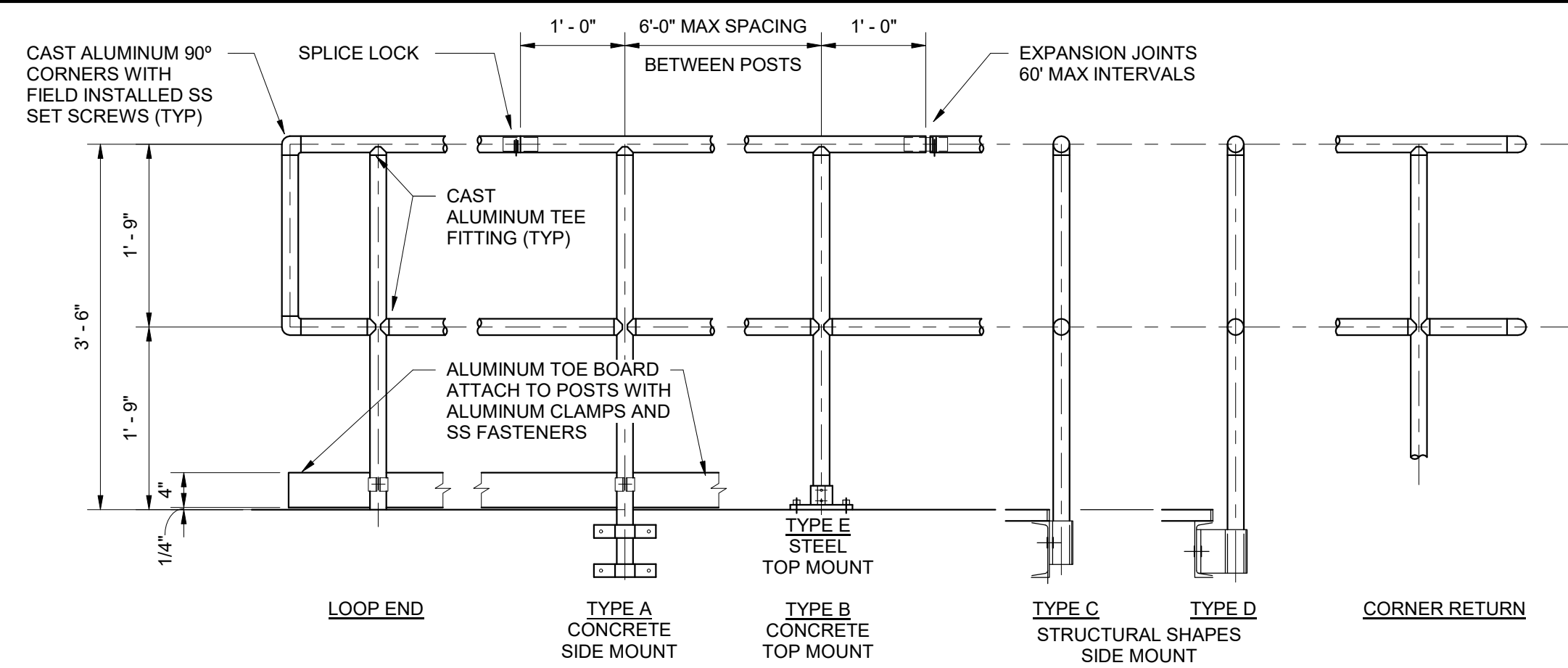


JOB NO.
N16003

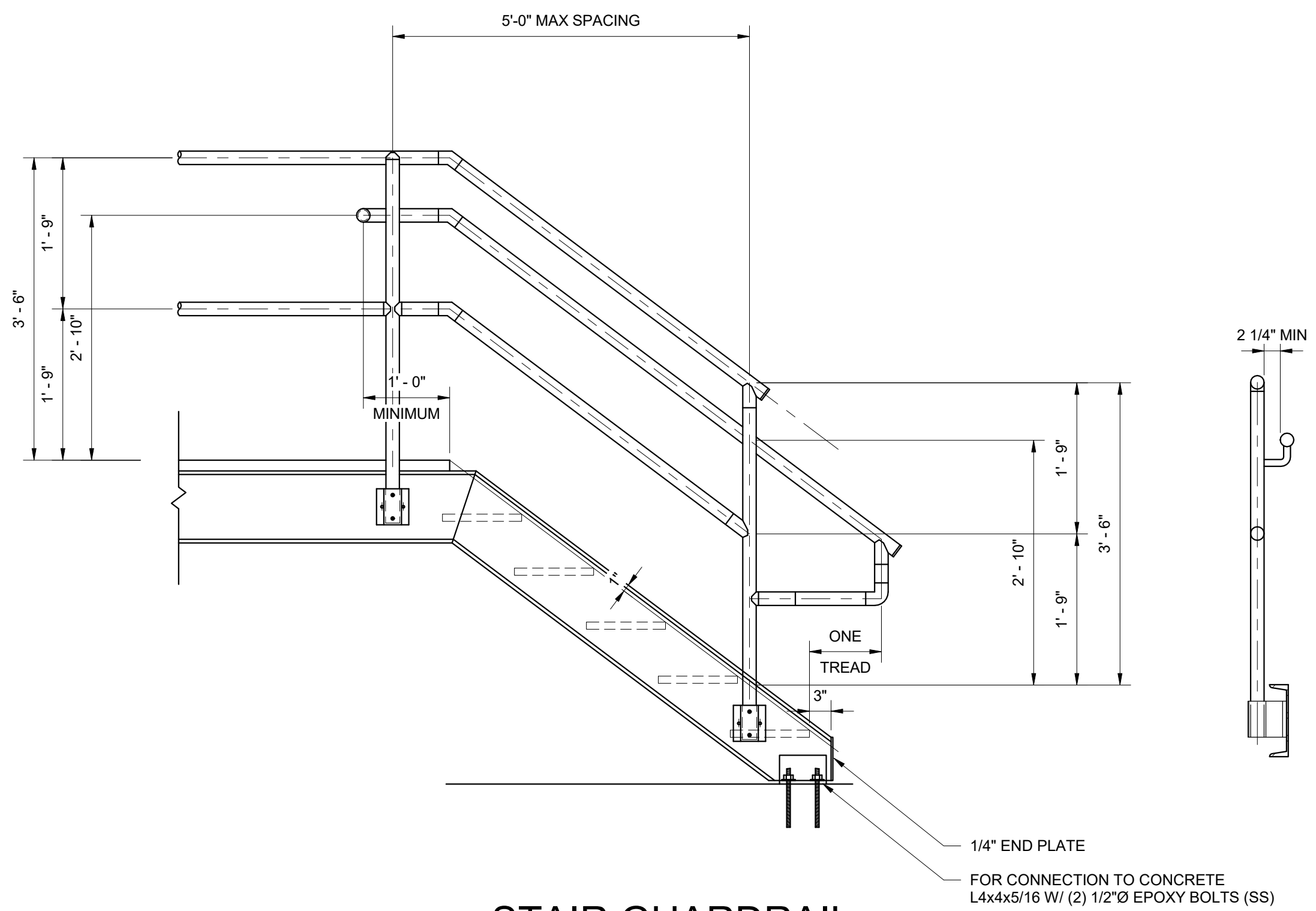
ISSUE DATE
NOVEMBER 30, 2018

SCALE
As indicated

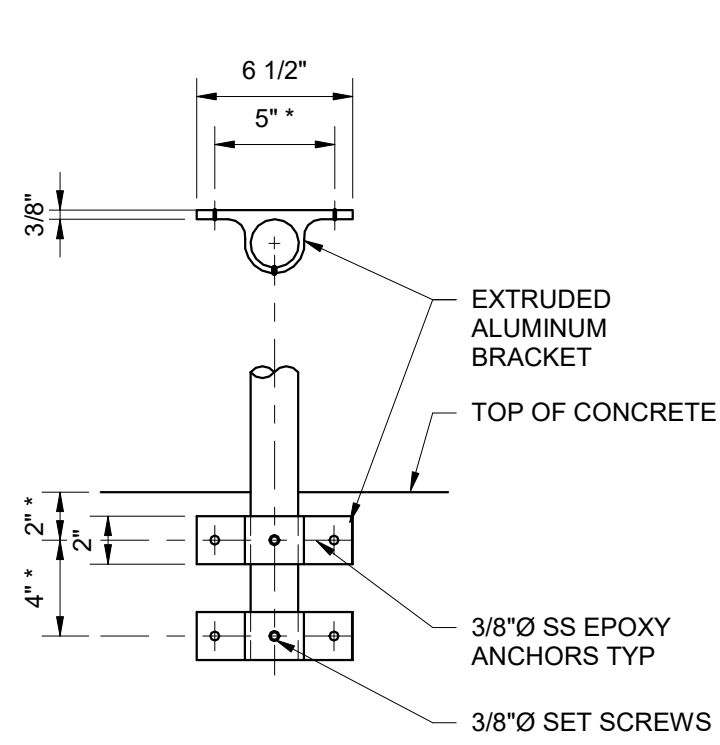
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S-003



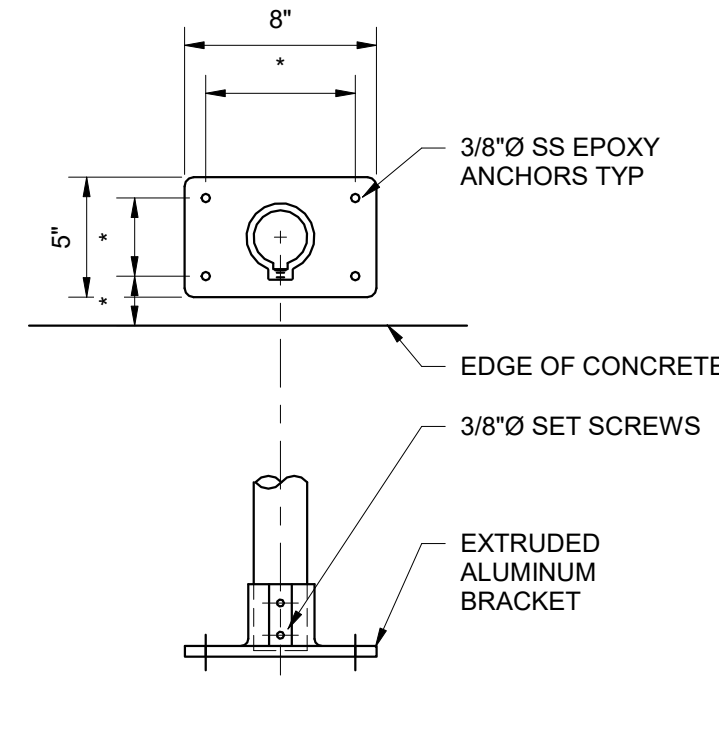
TYPICAL GUARDRAIL



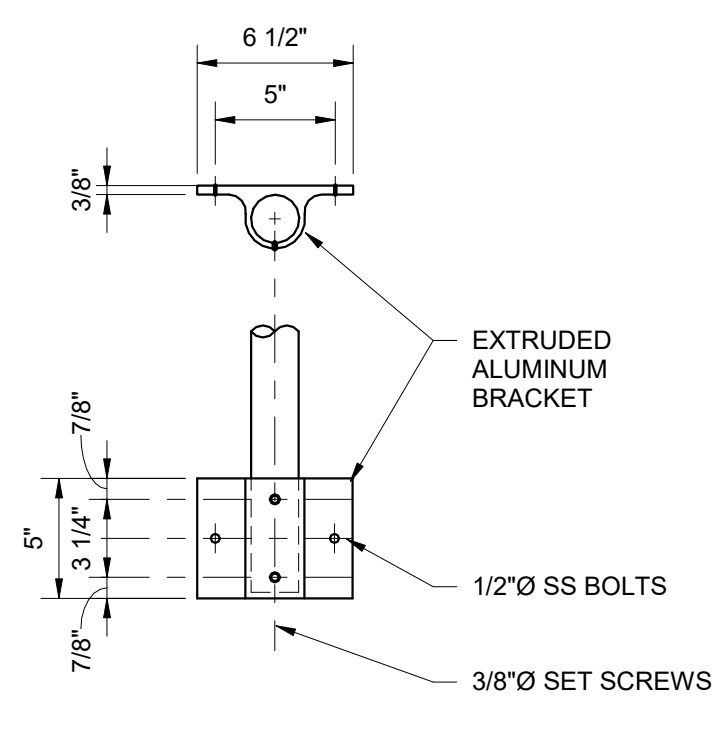
STAIR GUARDRAIL



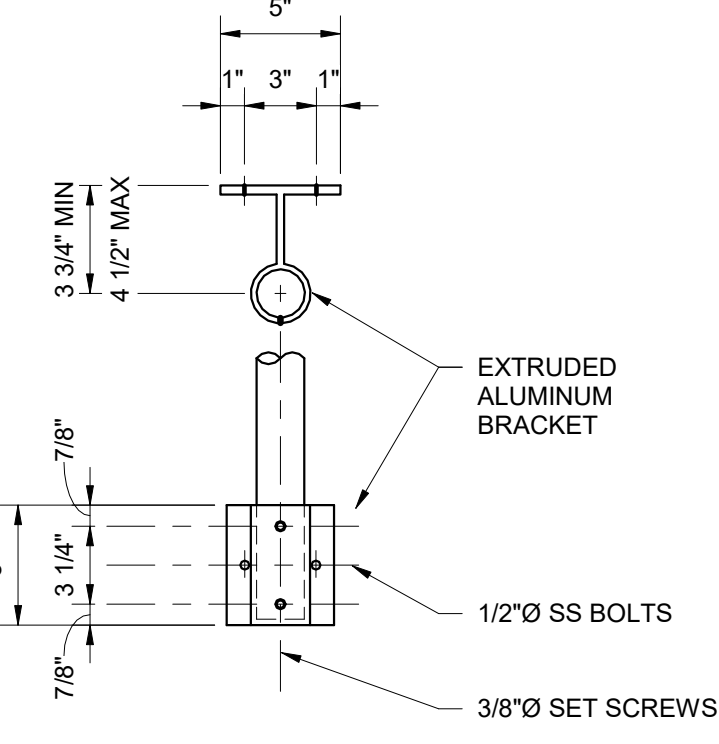
TYPE A



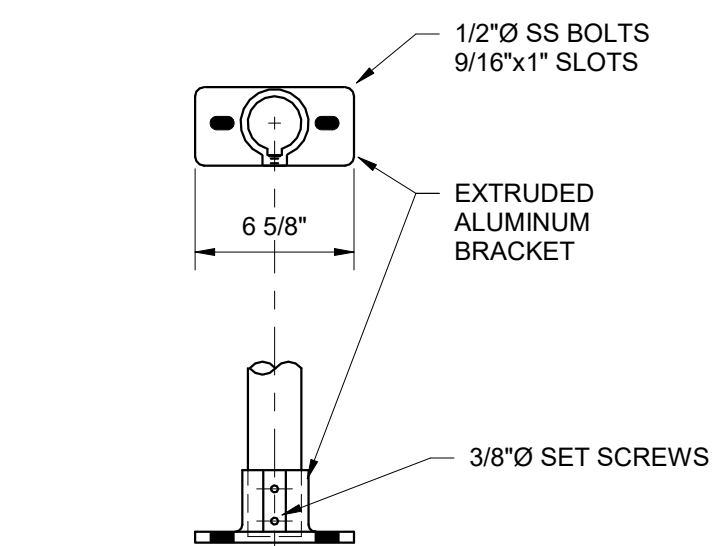
TYPE B



TYPE C



TYPE D

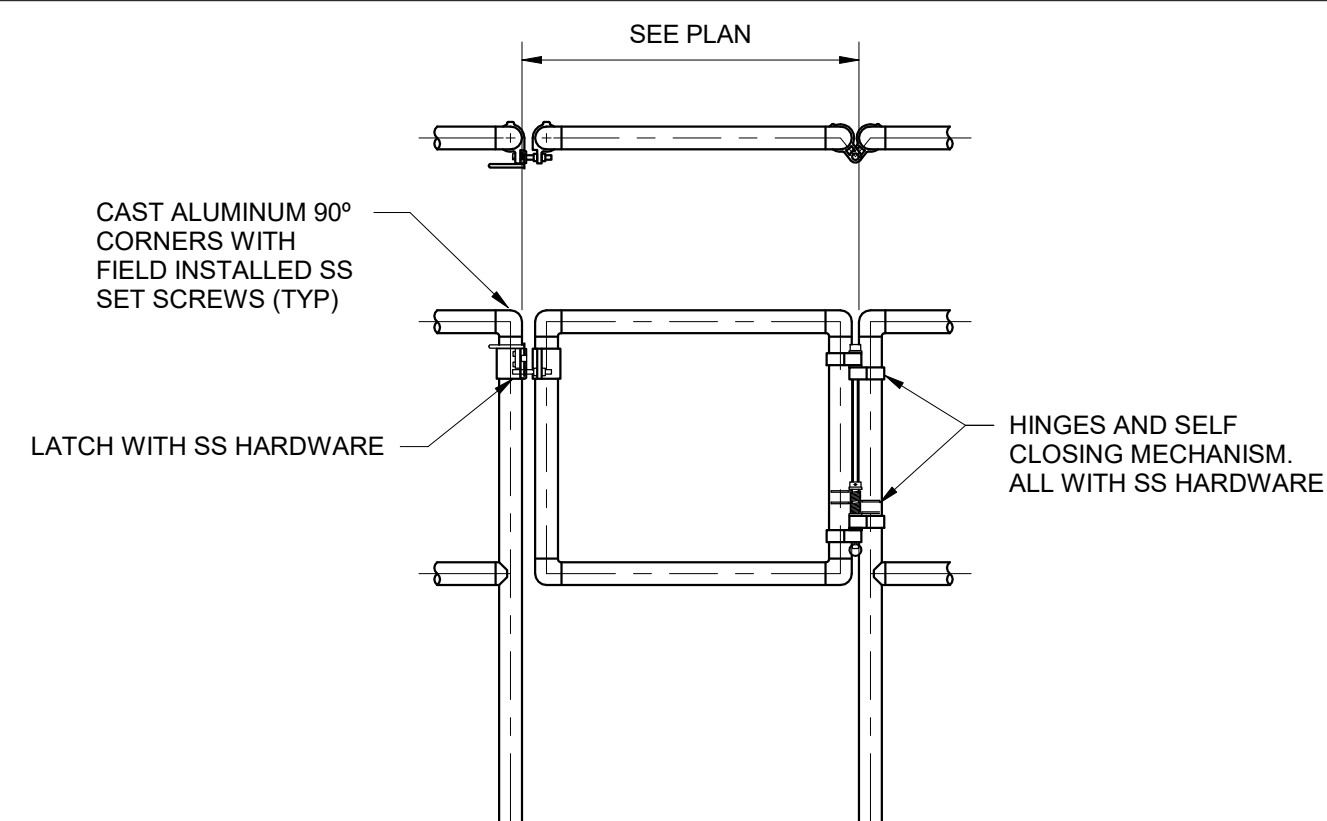


TYPE E

* ACTUAL BOLT SPACING, EDGE DISTANCE, EMBEDMENT, AND POST SPACING TO BE DETERMINED FROM ANCHOR SELECTION AND DESIGN LOADINGS

GUARDRAIL NOTES:

- GUARDRAILS AND HANDRAILS SHALL BE THE PRODUCT OF A COMPANY NORMALLY ENGAGED IN THE MANUFACTURE OF PIPE RAILING. RAILING SHALL BE SHOP ASSEMBLED IN LENGTHS NOT TO EXCEED 24 FEET FOR FIELD ERECTION.
- THE HANDRAIL SHALL BE MADE OF PIPES JOINED TOGETHER WITH COMPONENT FITTINGS. SAMPLES OF ALL COMPONENTS, BASES, TOE PLATE AND PIPE SHALL BE SUBMITTED FOR APPROVAL AT THE REQUEST OF THE DESIGNER. COMPONENTS THAT ARE POP-RIVETED OR GLUED AT THE JOINTS WILL NOT BE ACCEPTABLE. ALL COMPONENTS MUST BE MECHANICALLY FASTENED WITH STAINLESS STEEL HARDWARE. SIZES AND DIMENSIONS SHOWN ON DETAILS FOR COMPONENTS ARE FOR GUIDE PURPOSES ONLY. FABRICATOR MAY SUBMIT ALTERNATE SIZES.
- RAILINGS SHALL BE 1 1/2"Ø SCHEDULE 40 ALUMINUM PIPE ALLOY 6105-T5, ASTM-B-429 OR ASTM-B-221. POSTS SHALL BE 1 1/2"Ø SCHEDULE 40 ALUMINUM PIPE OF THE SAME ALLOY. POST SPACING SHALL BE A MAXIMUM OF 6'-0".
- GUARDRAILS AND HANDRAILS SHALL BE DESIGNED TO WITHSTAND A 200 LB CONCENTRATED LOAD APPLIED IN ANY DIRECTION AND AT ANY POINT ON THE TOP RAIL.
- THE MANUFACTURER SHALL SUBMIT CALCULATIONS FOR APPROVAL AT THE REQUEST OF THE DESIGNER. TESTING OF BASE CASTINGS OR BASE EXTRUSIONS BY AN INDEPENDENT LAB OR MANUFACTURER'S LAB (IF MANUFACTURER'S LAB MEETS THE REQUIREMENTS OF THE ALUMINUM ASSOCIATION) WILL BE AN ACCEPTABLE SUBSTITUTE FOR CALCULATIONS. CALCULATIONS WILL BE REQUIRED FOR APPROVAL OF ALL OTHER DESIGN ASPECTS.
- POSTS SHALL NOT INTERRUPT THE CONTINUATION OF THE TOP RAIL AT ANY POINT ALONG THE RAILING, INCLUDING CORNERS AND END TERMINATIONS. THE TOP SURFACE OF THE TOP RAILING SHALL BE SMOOTH AND SHALL NOT BE INTERRUPTED BY PROJECTED FITTINGS.
- THE MID-RAIL AT A CORNER RETURN SHALL BE ABLE TO WITHSTAND A 200 LB LOAD WITHOUT LOOSENING. THE MANUFACTURER IS TO DETERMINE THIS DIMENSION FOR THEIR SYSTEM AND PROVIDE PHYSICAL LABORATORY TESTS TO CONFIRM COMPLIANCE.
- CONCRETE ANCHORS SHALL BE STAINLESS STEEL TYPE 303 OR 304 EPOXY BOLTS AND SHALL BE FURNISHED BY THE HANDRAIL MANUFACTURER. THE ANCHOR DESIGN SHALL INCLUDE THE APPROPRIATE REDUCTION FACTORS FOR SPACING AND EDGE DISTANCES IN ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED DATA.
- TOE PLATE SHALL CONFORM TO OSHA STANDARDS. TOE PLATE SHALL BE A MINIMUM OF 4" HIGH AND SHALL BE AN EXTRUSION THAT ATTACHES TO THE POSTS WITH CLAMPS THAT WILL ALLOW FOR EXPANSION AND CONTRACTION BETWEEN POSTS. TOE PLATES SHALL BE SET 1/4" ABOVE THE WALKING SURFACE. TOE PLATES SHALL BE PROVIDED ON HANDRAILS AS REQUIRED BY OSHA AND/OR AS SHOWN ON DRAWINGS. TOE PLATES SHALL BE SHIPPED LOOSE IN STOCK LENGTHS FOR FIELD INSTALLATION.
- OPENINGS IN THE RAILING SHALL BE GUARDED BY A SELF-CLOSING GATE. SAFETY CHAINS SHALL NOT BE USED UNLESS SPECIFICALLY SHOWN ON THE DRAWINGS.
- FINISH SHALL BE ALUMINUM ASSOCIATION M10-C22-A41 (215-R1). THE PIPE SHALL BE PLASTIC-WRAPPED. THE PLASTIC WRAP IS TO BE REMOVED AFTER ERECTION.
- ALUMINUM SURFACES IN CONTACT WITH CONCRETE, GROUT OR DISSIMILAR METALS WILL BE PROTECTED WITH A COAT OF BITUMINOUS PAINT, MYLAR ISOLATORS OR OTHER APPROVED MATERIAL.



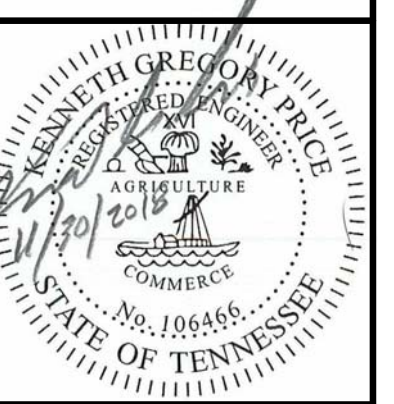
TYPICAL GATE

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					DESIGNED	DRAWN	CHECKED	APPROVED	

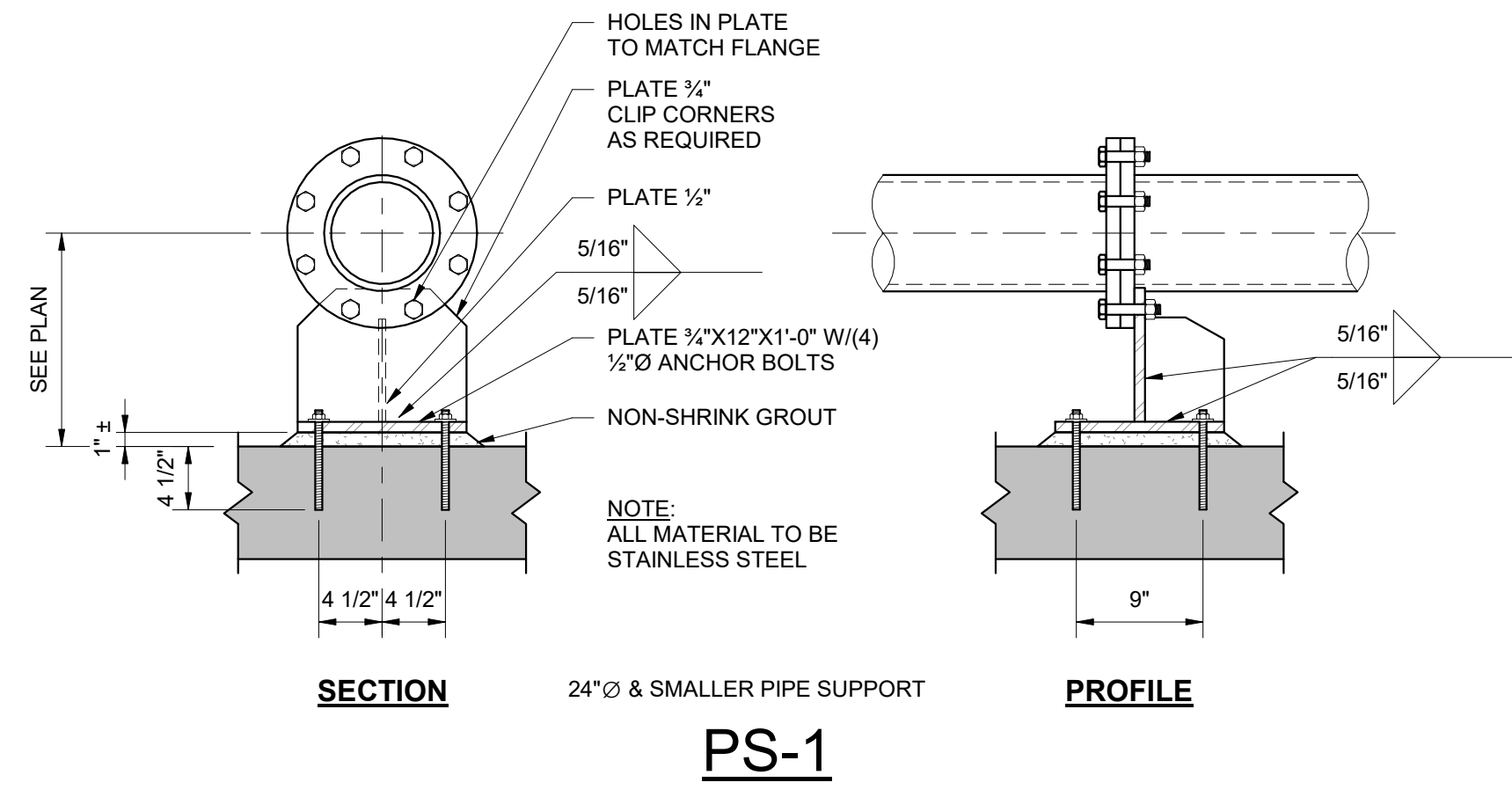
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 DRAWN: KGP
 CHECKED: PCC
 APPROVED: NH

WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSCO COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

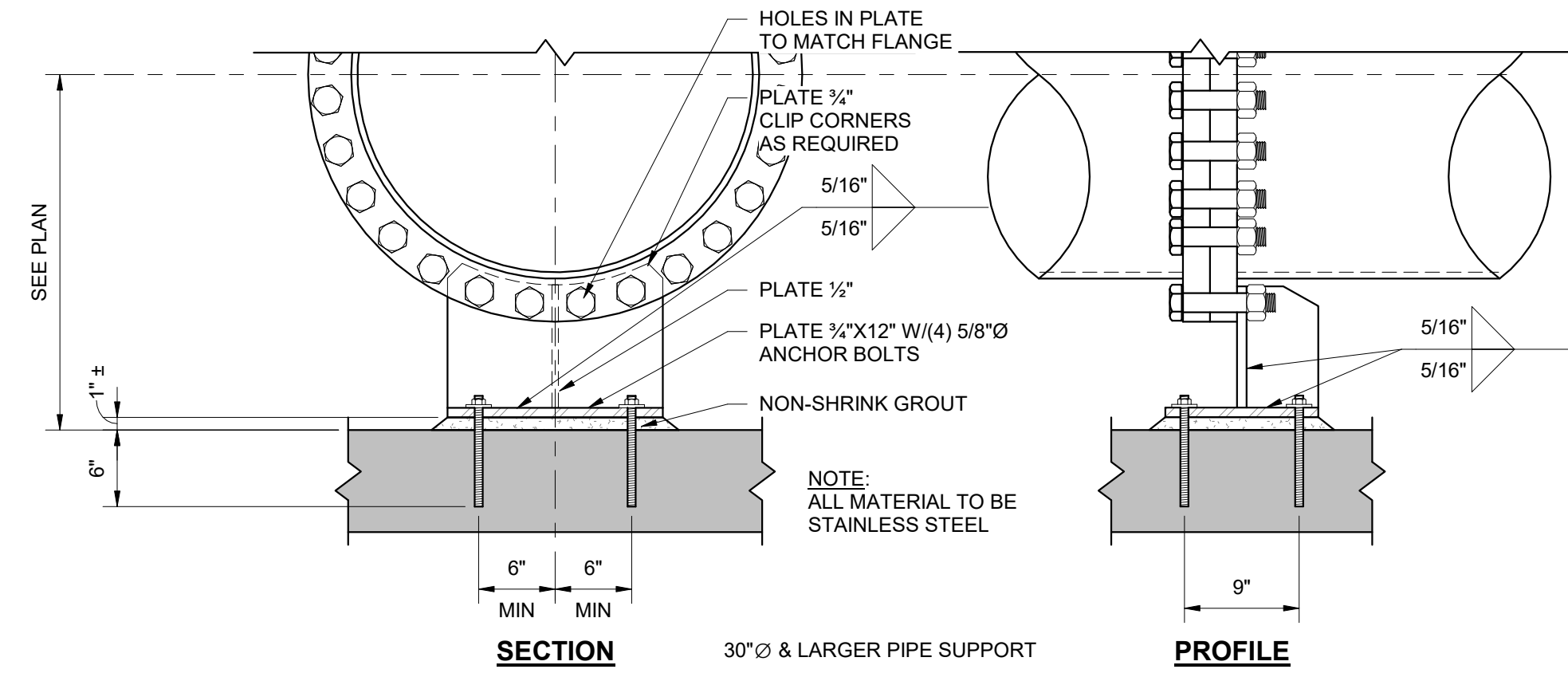
GENERAL
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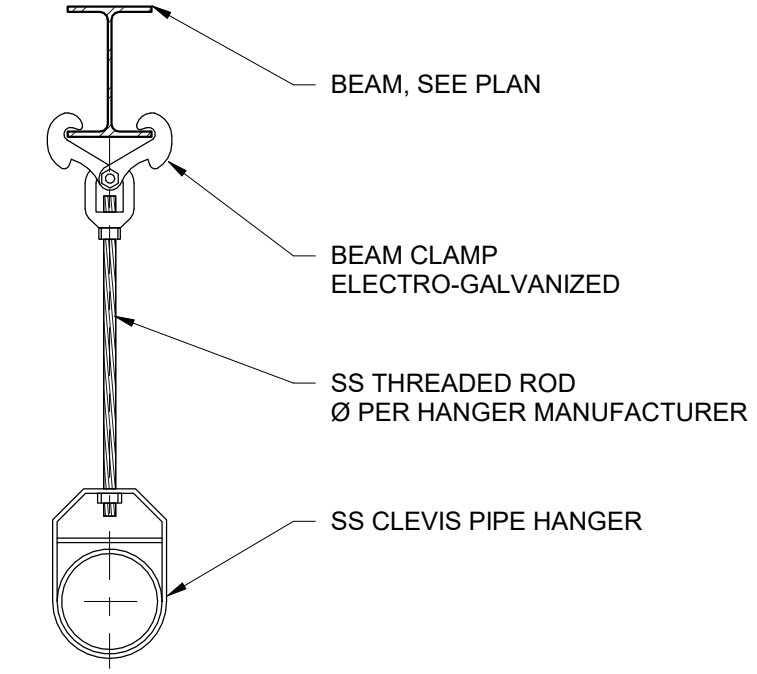
JOB NO. N16003
 ISSUE DATE NOVEMBER 30, 2018
 SCALE As indicated
 DRAWING NO. S-004



PS-1



PS-2



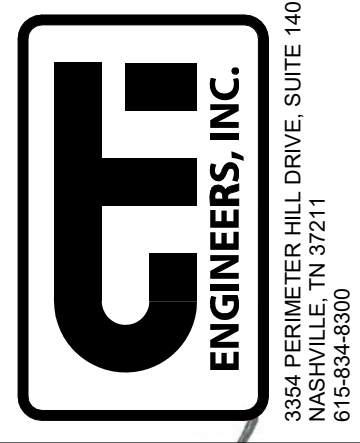
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 APPROVED: NH

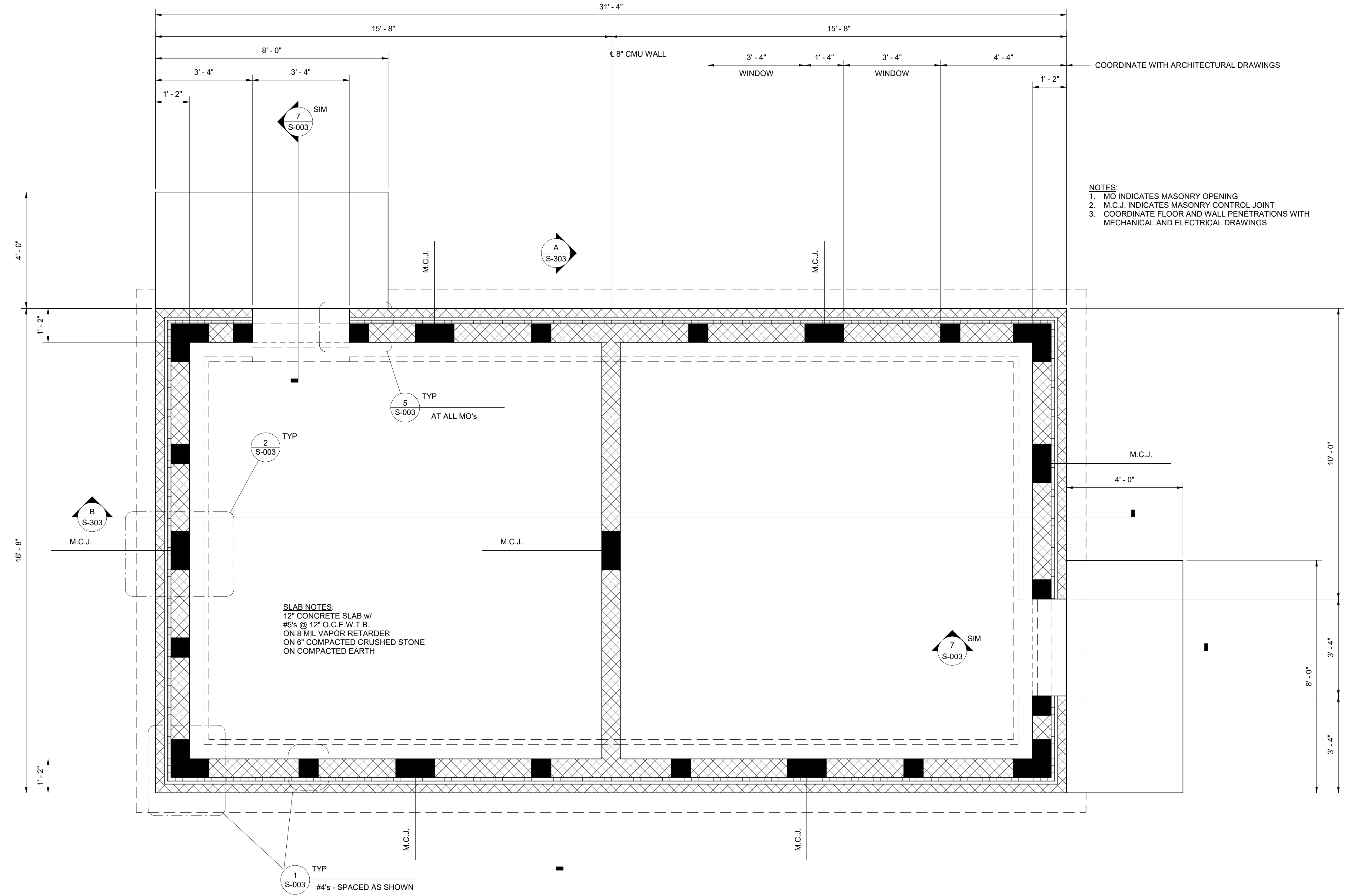
REVISIONS
 NO. DESCRIPTIONS DATE BY APPD

WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

GENERAL
 PIPE SUPPORT DETAILS

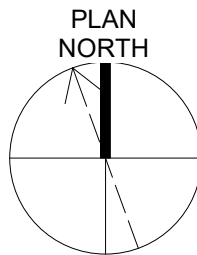
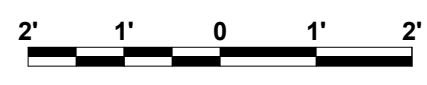


JOB NO.
 N16003
 ISSUE DATE
 NOVEMBER 30, 2018
 SCALE
 1" = 1'-0"
 DRAWING NO.
 S-005



FOUNDATION PLAN

1/2" = 1'-0"



REVISIONS		DATE	BY	APPD
NO.	DESCRIPTIONS			

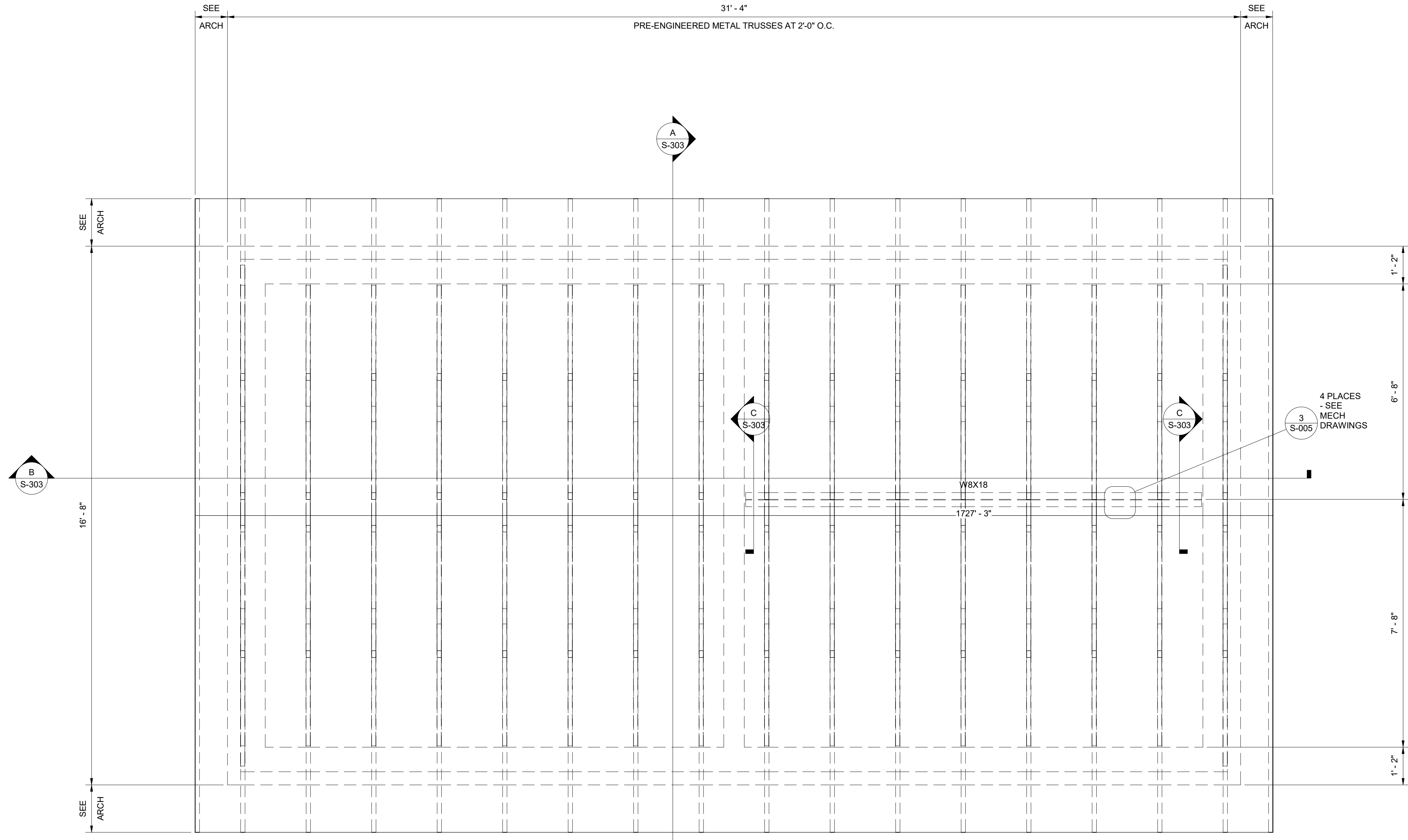
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KGK	KGK	KGK	PCC	NH

WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

**SBR INFLUENT PUMP STATION
 FOUNDATION PLAN**

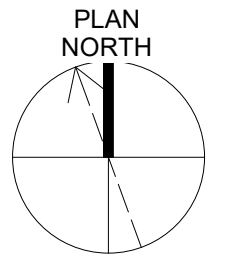


JOB NO. N16003
ISSUE DATE NOVEMBER 30, 2018
SCALE 1/2" = 1'-0"
DRAWING NO. S-301



ROOF FRAMING PLAN

1/2" = 1'-0"



- NOTES:
1. FOR TRUSS WIND LOADING SEE SHEET S-001
 2. STEEL BEAMS TO BE COATED PER SPECS, INTERIOR EXPOSED.

DESIGNED		CHECKED		APPROVED	
NO.	DESCRIPTIONS	DATE	BY	DATE	BY

DESIGNED	KGK	CHECKED	PCC	APPROVED	NH
DRAWN	KGK				

WASTEWATER TREATMENT PLANT EXPANSION
BLED SOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLED SOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

SBR INFLUENT PUMP STATION
ROOF FRAMING PLAN

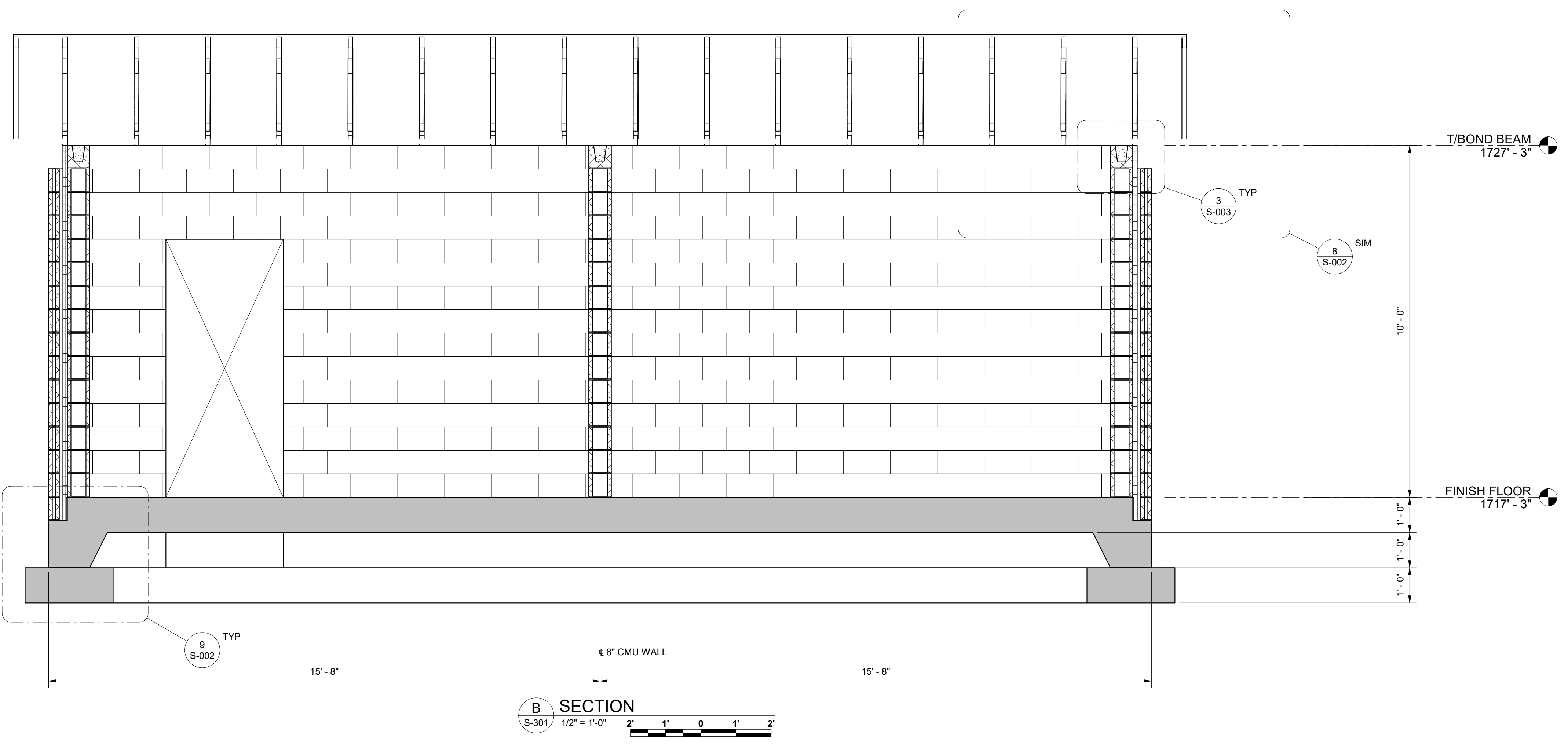
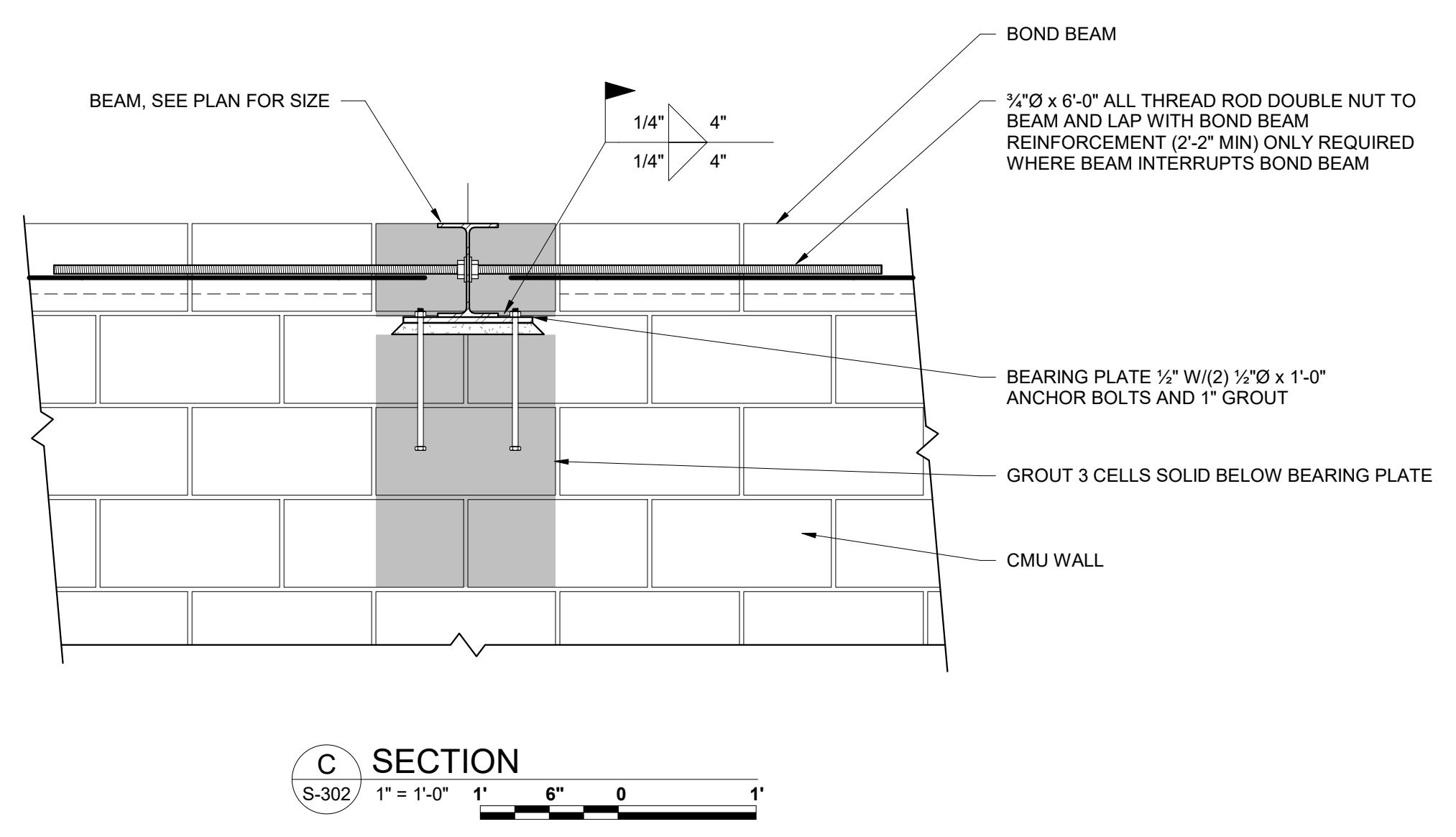
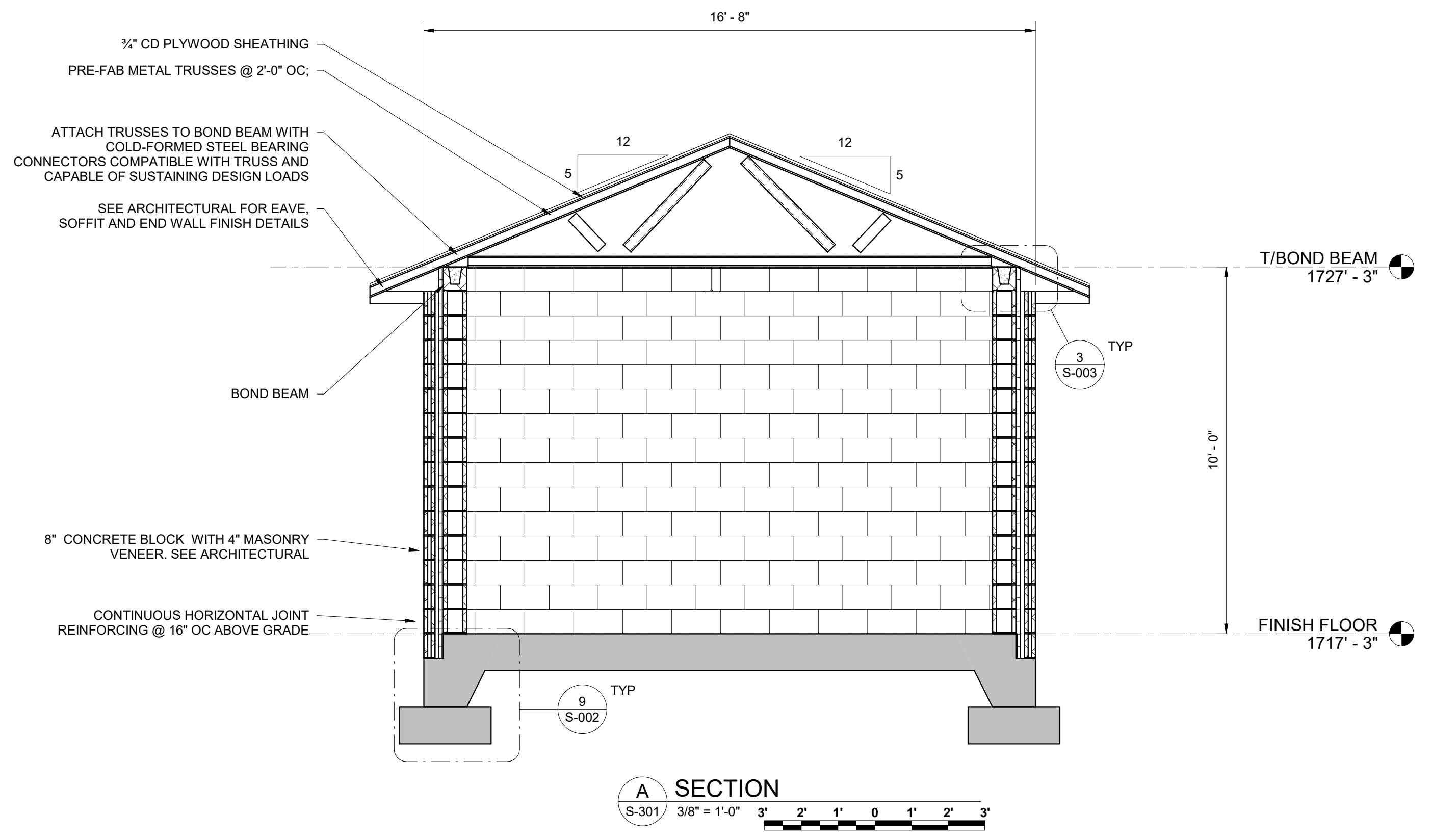
GF ENGINEERS, INC.
 3364 PERIMETER HILL DRIVE, SUITE 140
 NASHVILLE, TN 37211
 615-834-8300

KENNETH GREGORY PRICE
 PROFESSIONAL ENGINEER
 STATE OF TENNESSEE
 No. 106566

JOB NO.	N16003
ISSUE DATE	NOVEMBER 30, 2018
SCALE	1/2" = 1'-0"
DRAWING NO.	S-302

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		KGK	KGK	KGK	PCC	NH	NH		

DESIGNED	DRAWN	CHECKED	APPROVED
KGK	KGK	PCC	NH

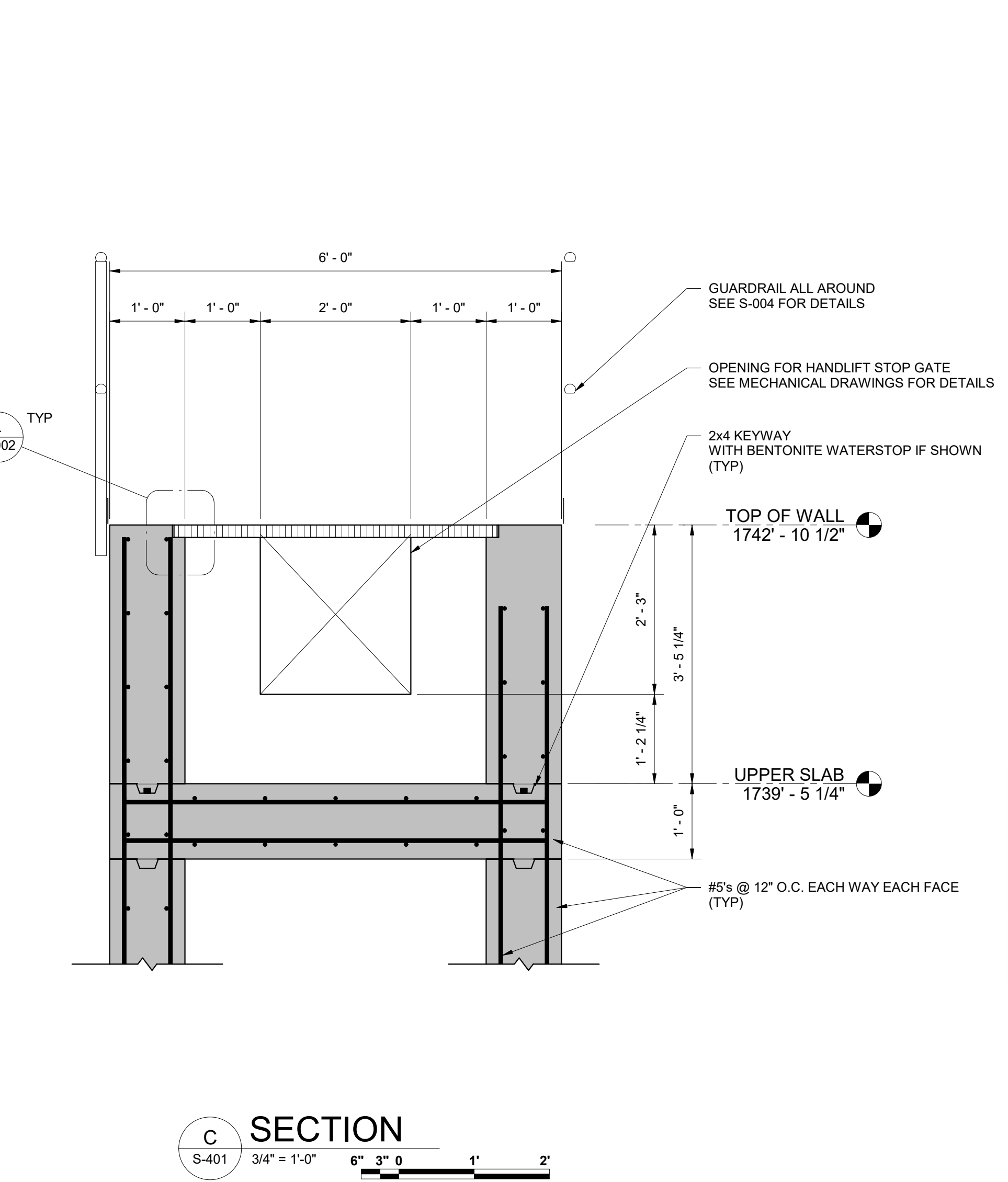
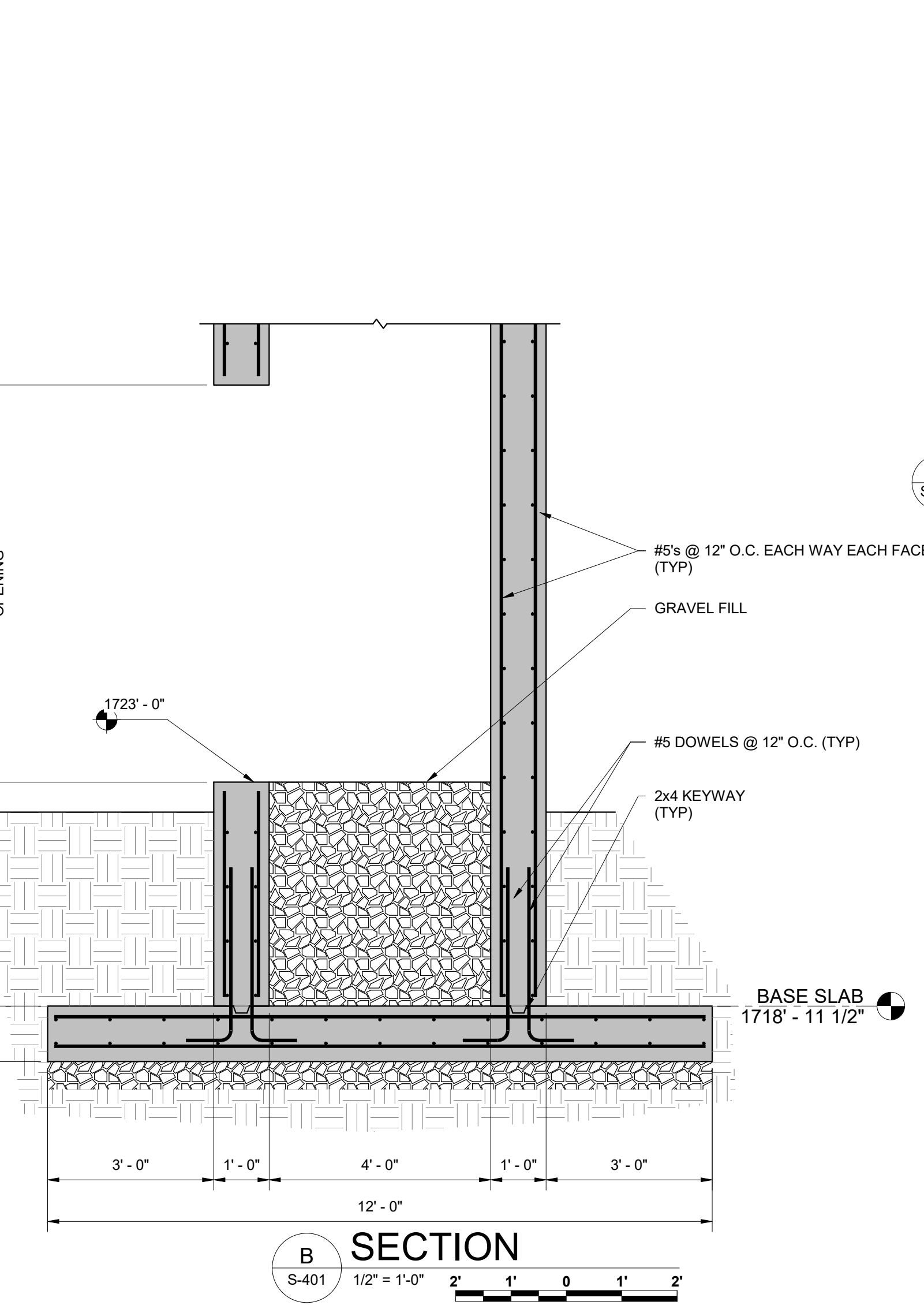
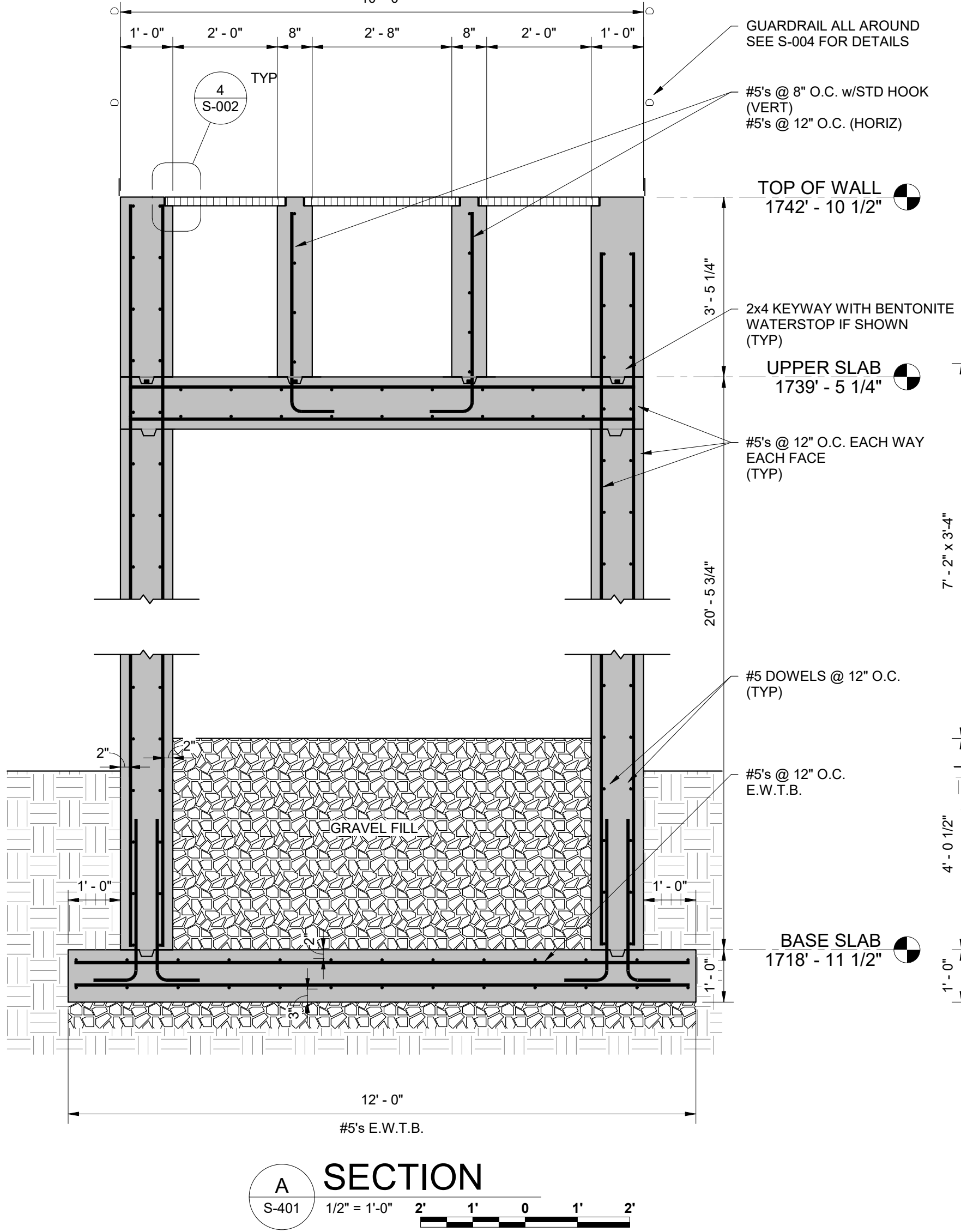
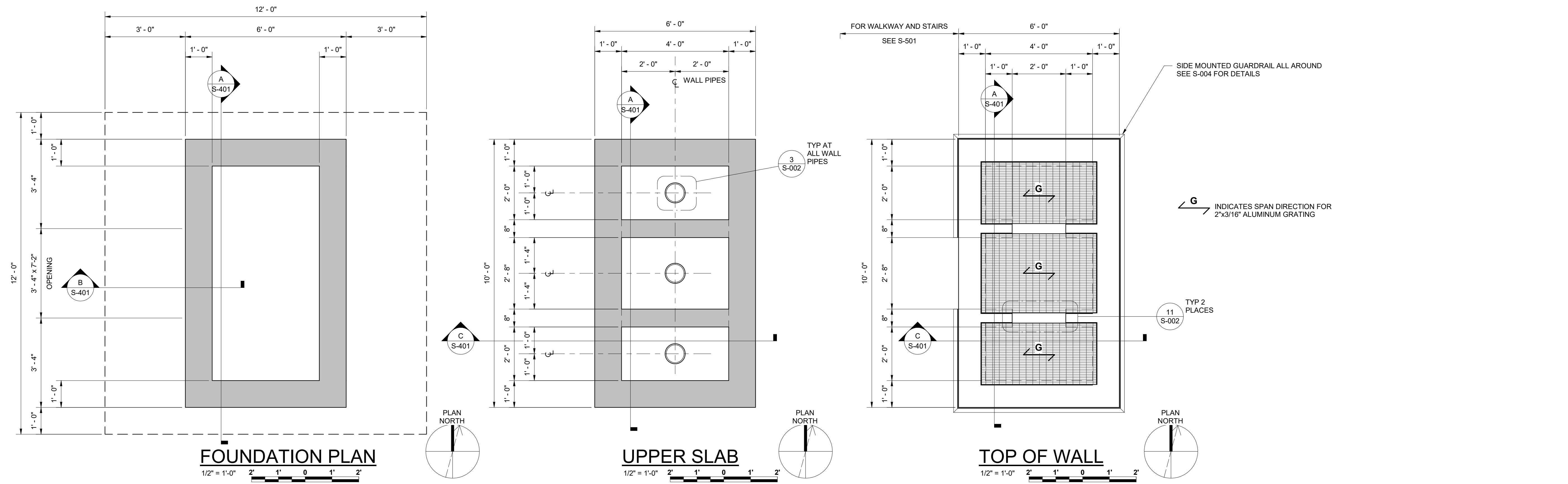
WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06
 SBR INFLUENT PUMP STATION
 SECTIONS



JOB NO. N16003
ISSUE DATE NOVEMBER 30, 2018
SCALE As indicated
DRAWING NO. S-303

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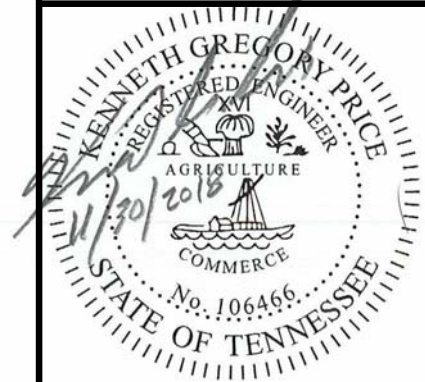
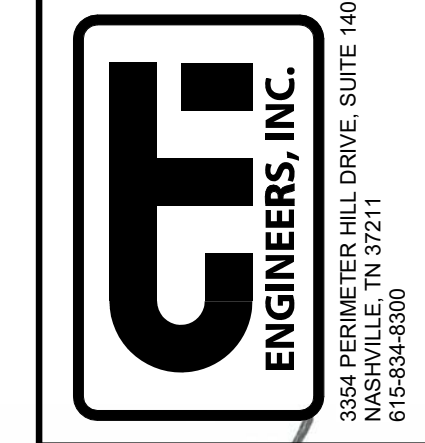
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NO.	DESCRIPTIONS	DATE	

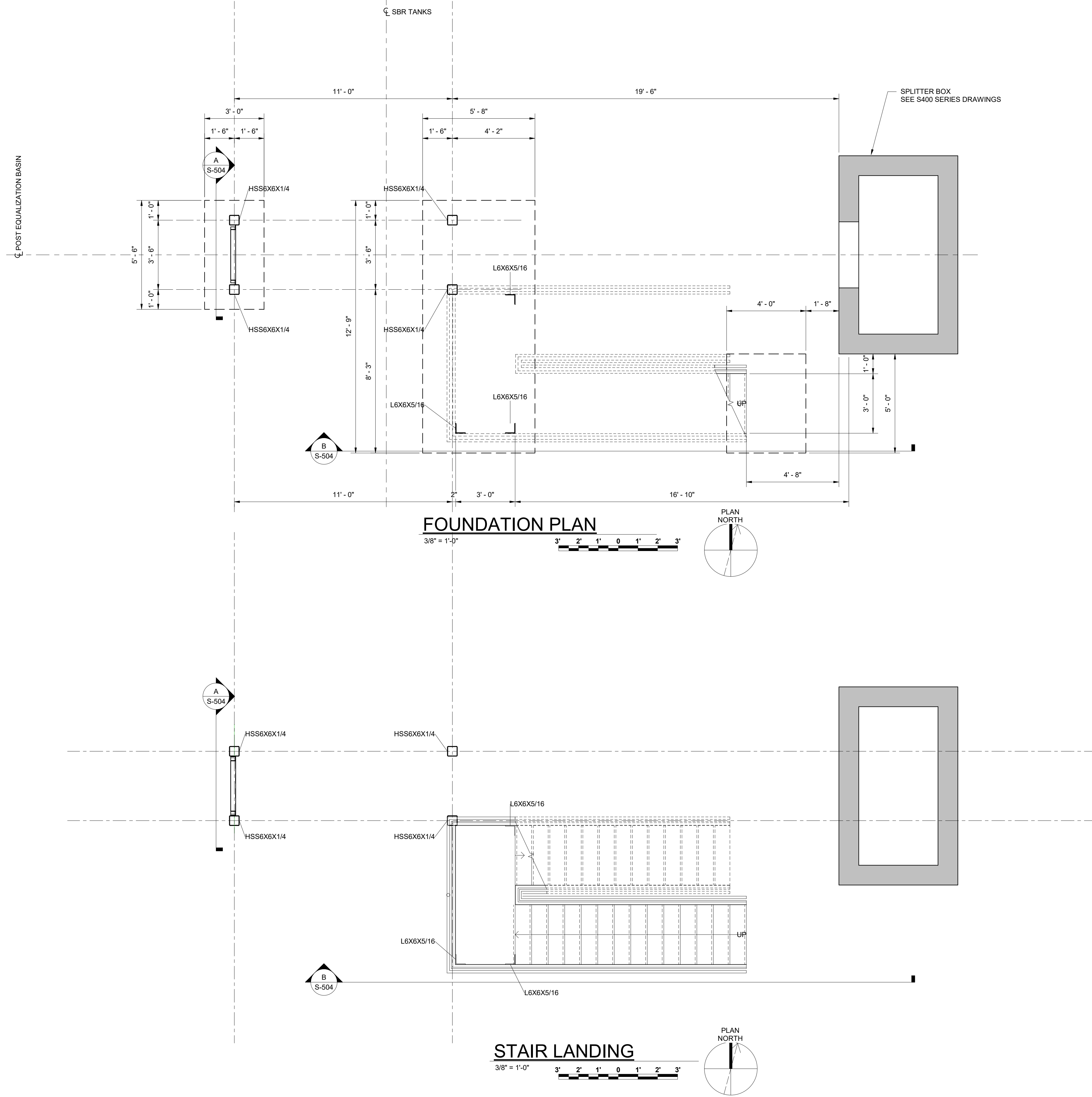
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APPROVED: NH

WASTEWATER TREATMENT PLANT EXPANSION
BLEDSOE COUNTY CORRECTIONAL COMPLEX
PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06



JOB NO. N16003
ISSUE DATE NOVEMBER 30, 2018
SCALE As indicated
DRAWING NO. S-401

SPLITTER BOX
PLANS AND SECTIONS

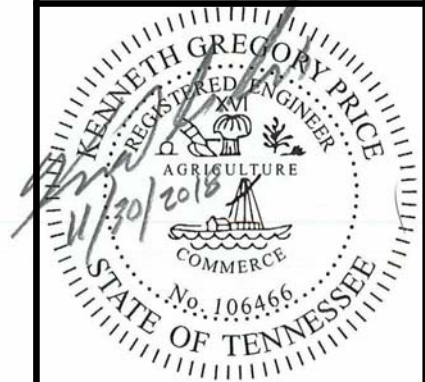
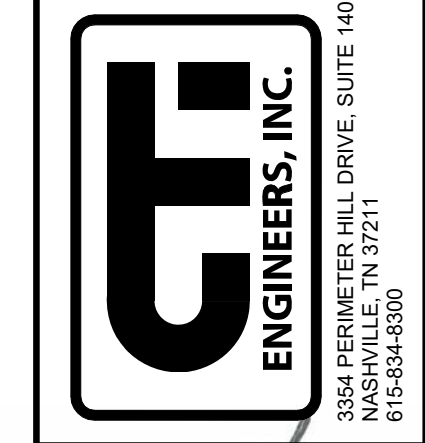


DESIGNED	DRAWN	CHECKED	PCC	APPROVED
KGP	KGP			NH

REVISIONS	NO.	DESCRIPTIONS	DATE	BY	APP'D

WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

SBR AND POST EQUALIZATION BASINS
 PLANS

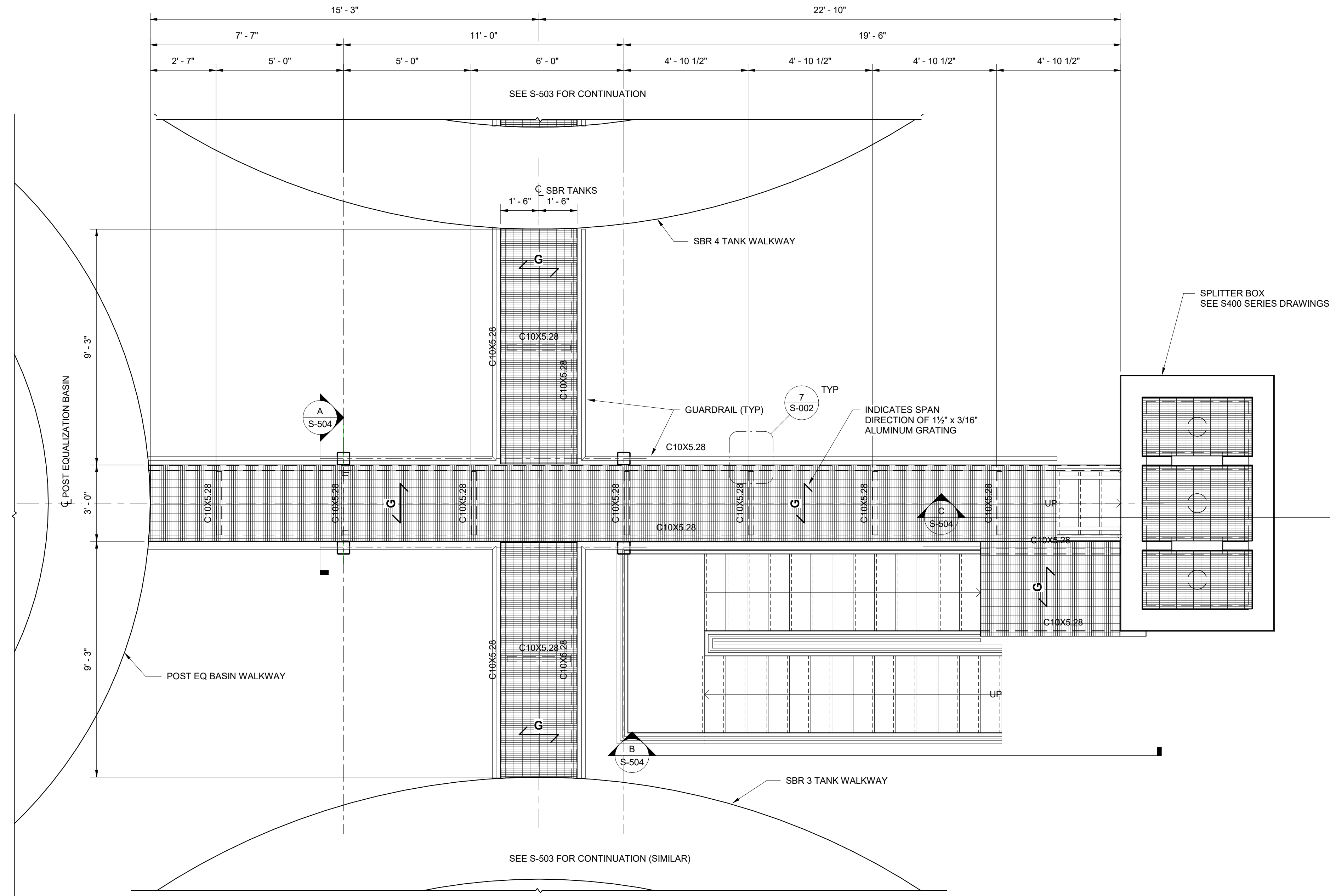


JOB NO.
N16003

ISSUE DATE
NOVEMBER 30, 2018

SCALE
3/8" = 1'-0"

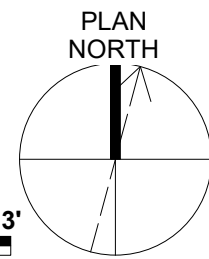
DRAWING NO.
S-501



- NOTES:
1. LIVE LOAD = 100 P.S.F.
 2. ALL FRAMING AND CONNECTION MATERIAL TO BE ALUMINUM
 3. ALL STAIR STRINGER FRAMING MEMBERS TO BE C10x5.28 UNLESS NOTED
 4. TANK MANUFACTURER TO PROVIDE SEATED CONNECTION FOR PLATFORM FRAMING. FABRICATOR TO COORDINATE WITH TANK MANUFACTURER.
 5. COORDINATE GUARDRAIL SHOWN ON THIS PLAN WITH TANK WALKWAY GUARDRAIL
 6. FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO FABRICATION

WALKWAY FRAMING PLAN

3/8" = 1'-0"

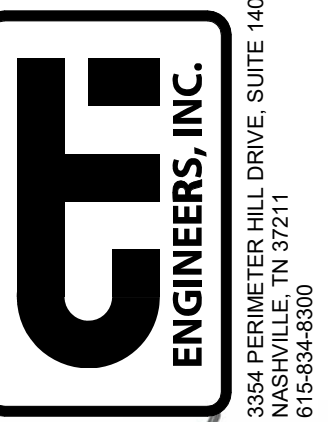


DESIGNED		REVISIONS	
NO.	DESCRIPTIONS	DATE	BY

DESIGNED: KGP
DRAWN: KGP
CHECKED: PCC
APPROVED: NH

**WASTEWATER TREATMENT PLANT EXPANSION
BLED SOE COUNTY CORRECTIONAL COMPLEX**
PIKEVILLE, BLED SOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

**SBR AND POST EQUALIZATION BASINS
WALKWAY FRAMING PLAN**



JOB NO.
N16003

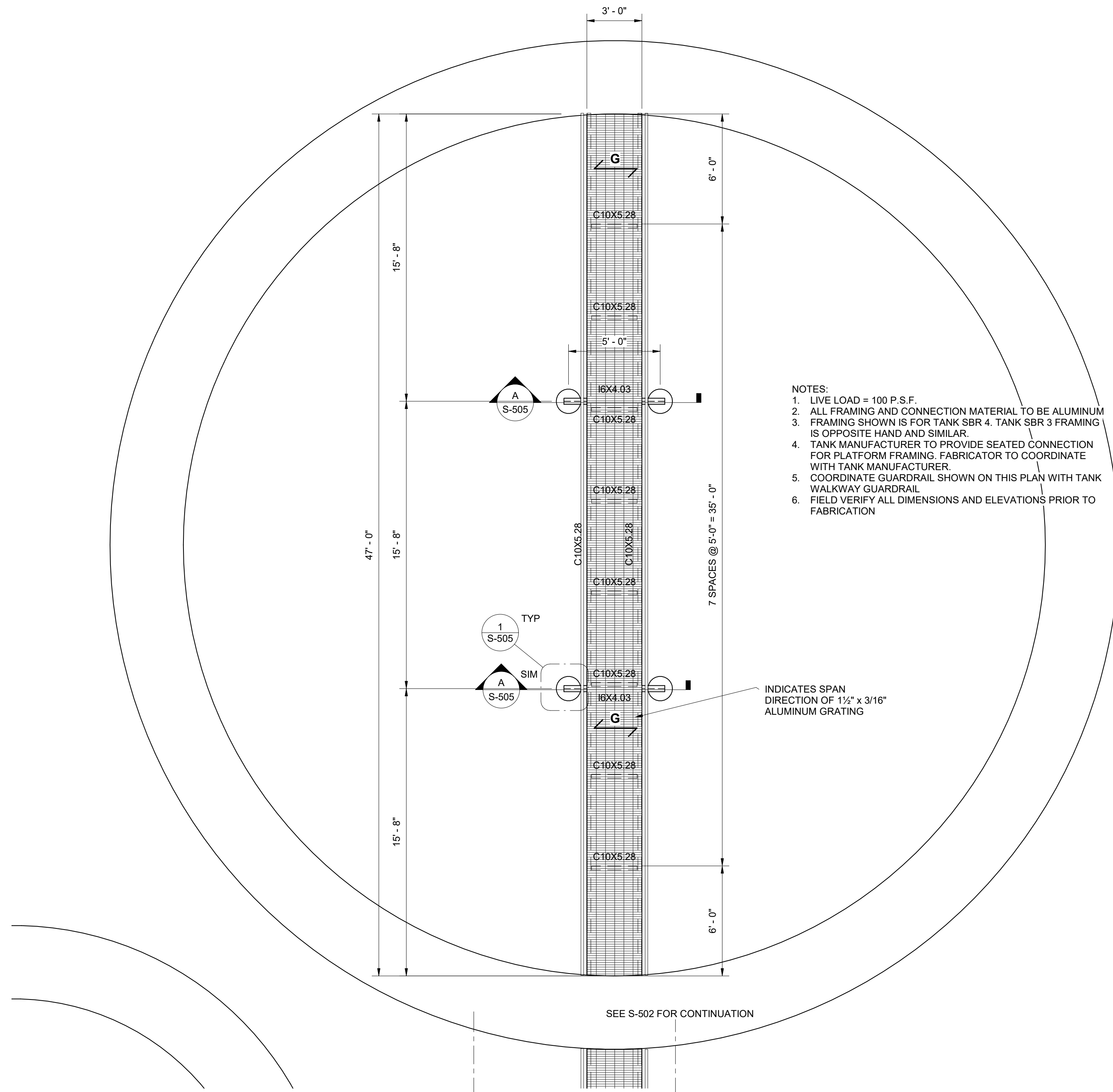
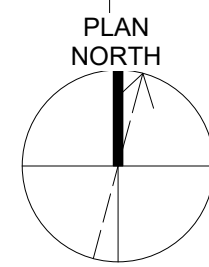
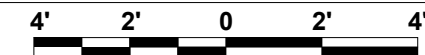
ISSUE DATE
NOVEMBER 30, 2018

SCALE
3/8" = 1'-0"

DRAWING NO.
S-502

SBR WALKWAY FRAMING PLAN

1/4" = 1'-0"



- NOTES:
1. LIVE LOAD = 100 P.S.F.
 2. ALL FRAMING AND CONNECTION MATERIAL TO BE ALUMINUM
 3. FRAMING SHOWN IS FOR TANK SBR 4. TANK SBR 3 FRAMING IS OPPOSITE HAND AND SIMILAR.
 4. TANK MANUFACTURER TO PROVIDE SEATED CONNECTION FOR PLATFORM FRAMING. FABRICATOR TO COORDINATE WITH TANK MANUFACTURER.
 5. COORDINATE GUARDRAIL SHOWN ON THIS PLAN WITH TANK WALKWAY GUARDRAIL
 6. FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO FABRICATION

INDICATES SPAN DIRECTION OF 1/2" x 3/16" ALUMINUM GRATING

SEE S-502 FOR CONTINUATION

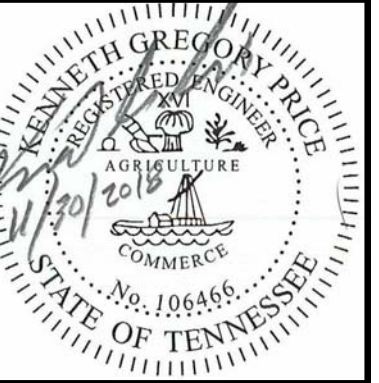
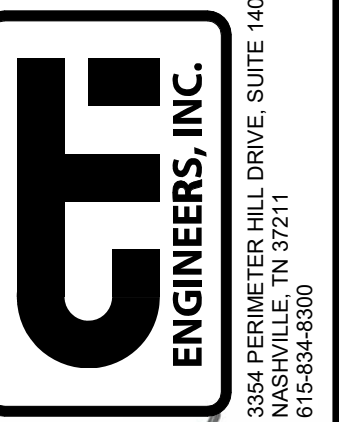
DESIGNED: KGP
 DRAWN: KGP
 CHECKED: PCC
 APPROVED: NH

REVISIONS

NO.	DESCRIPTIONS	DATE	BY	APPD

WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

SBR AND POST EQUALIZATION BASINS
 WALKWAYS ABOVE SBR TANKS

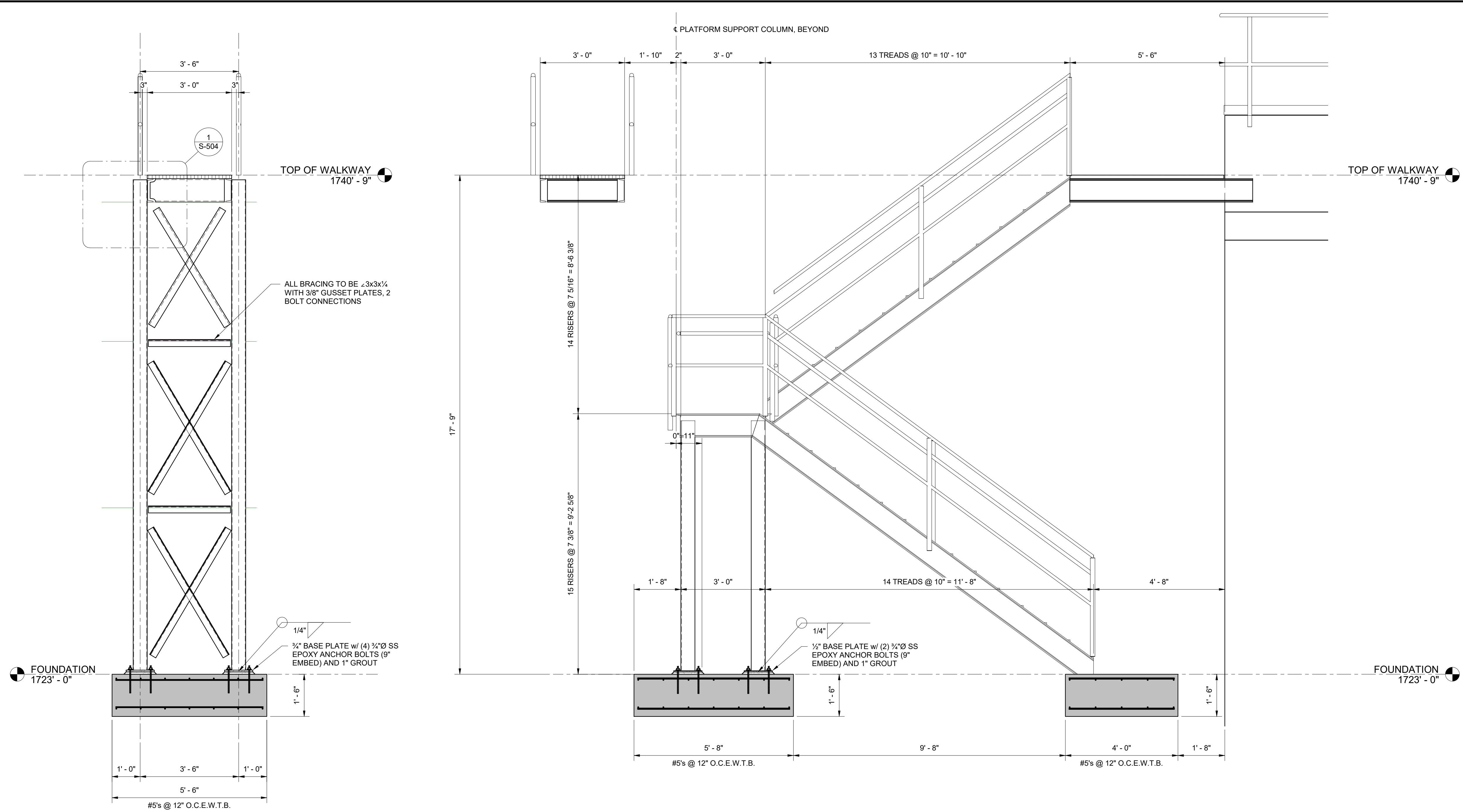


JOB NO.
 N16003

ISSUE DATE
 NOVEMBER 30, 2018

SCALE
 1/4" = 1'-0"

DRAWING NO.
 S-503

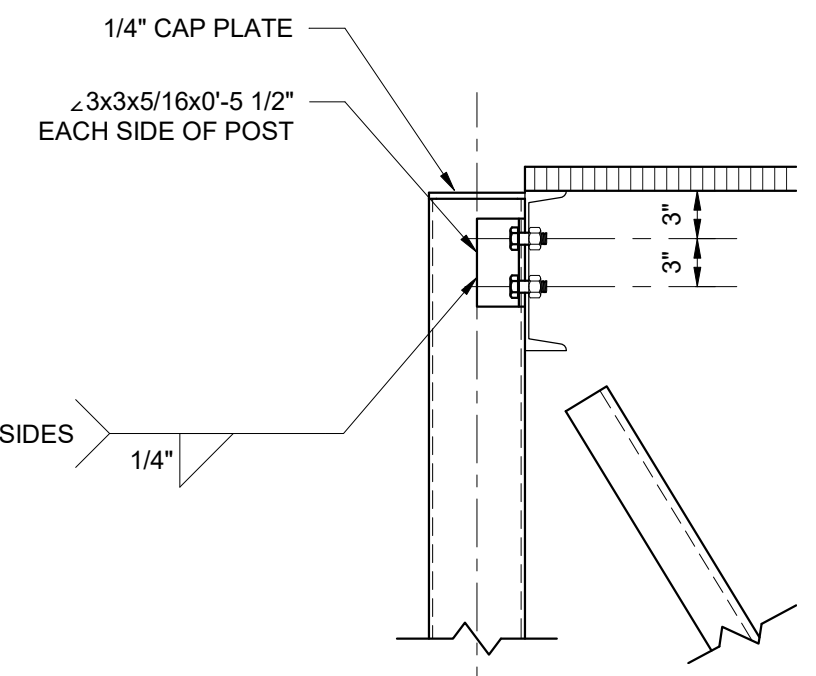


A SECTION
S-501 1/2" = 1'-0"

B SECTION
S-501 1/2" = 1'-0"

C SECTION
S-502 1/2" = 1'-0"

1 DETAIL
S-504 1" = 1'-0"



NOTE:
IF FRAMING MEMBER PRESENT,
MATCH HOLE SPACING. SEE TYPICAL
BEAM CONNECTION DETAIL

DESIGNED		CHECKED		APPROVED	
NO.	DATE	NO.	DATE	NO.	DATE
KGP		PCC		NH	
KGP					

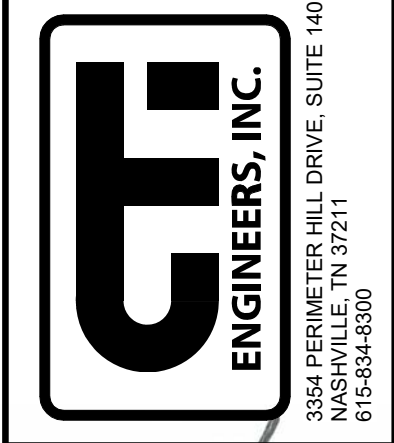
DESIGNED: KGP
DRAWN: KGP
CHECKED: PCC
APPROVED: NH

REVISIONS

NO.	DATE	BY	APPD	DESCRIPTIONS

WASTEWATER TREATMENT PLANT EXPANSION
BLED SOE COUNTY CORRECTIONAL COMPLEX
PIKEVILLE, BLED SOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

SBR AND POST EQUALIZATION BASINS
SECTIONS AND DETAILS - SHEET 1

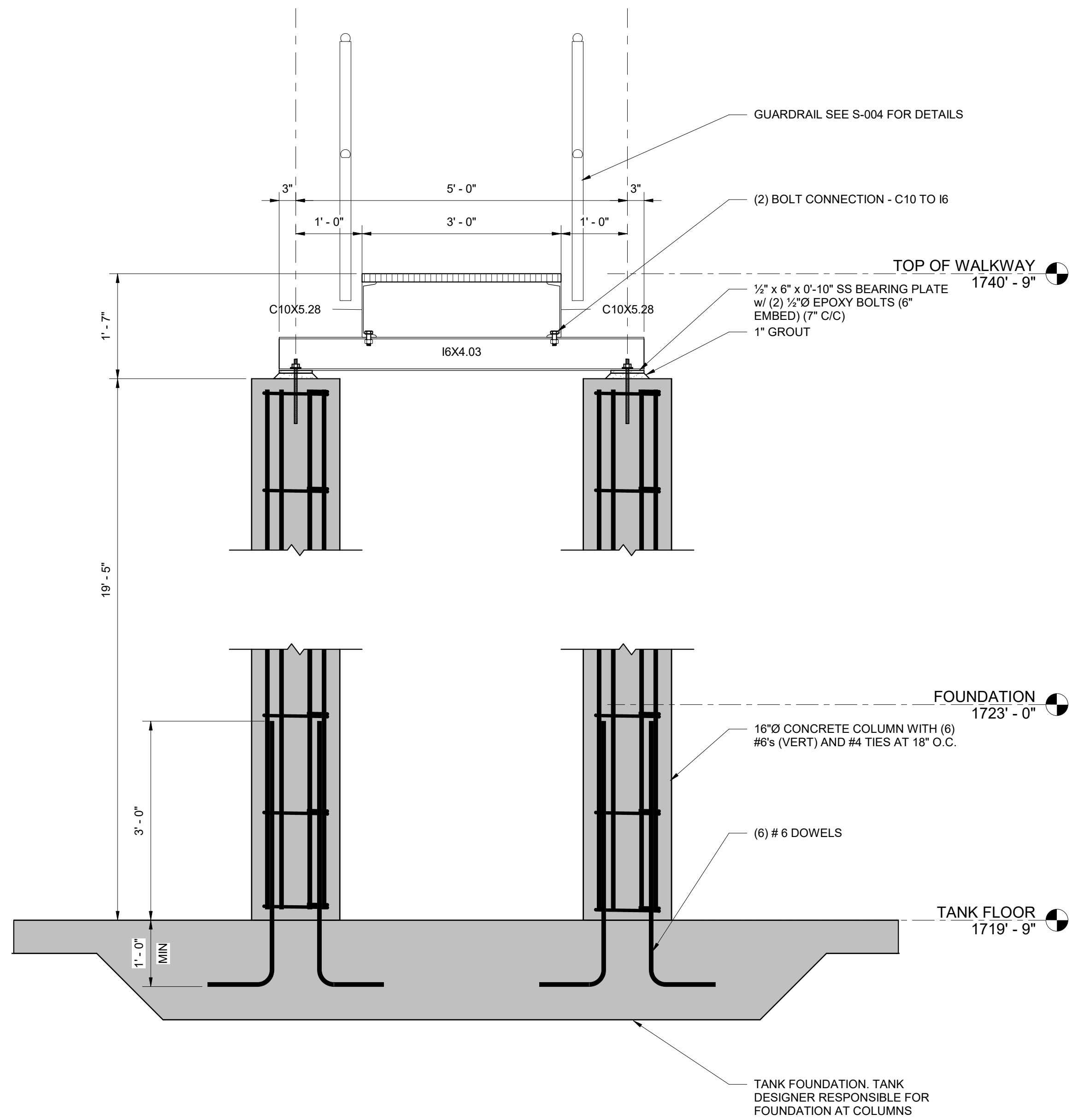


JOB NO.
N16003

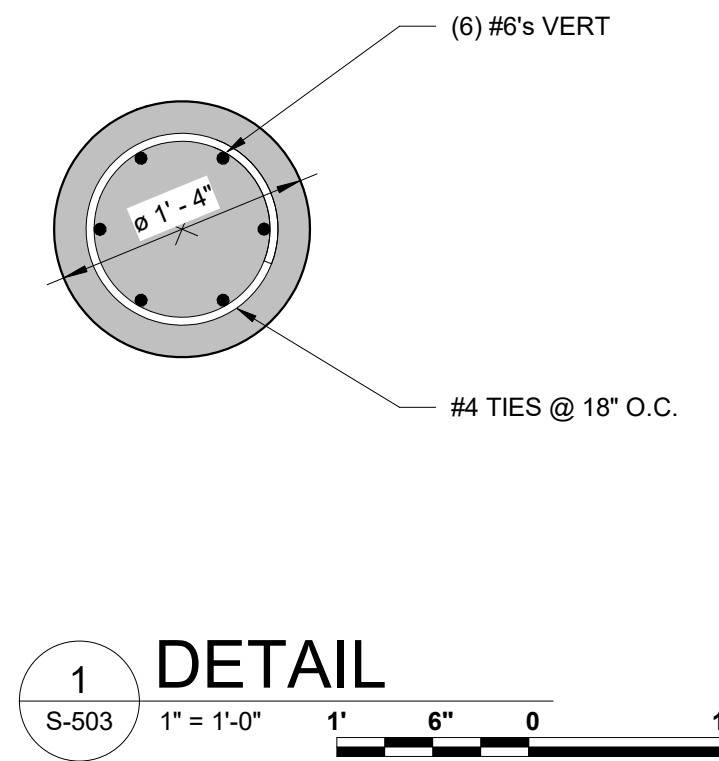
ISSUE DATE
NOVEMBER 30, 2018

SCALE
As indicated

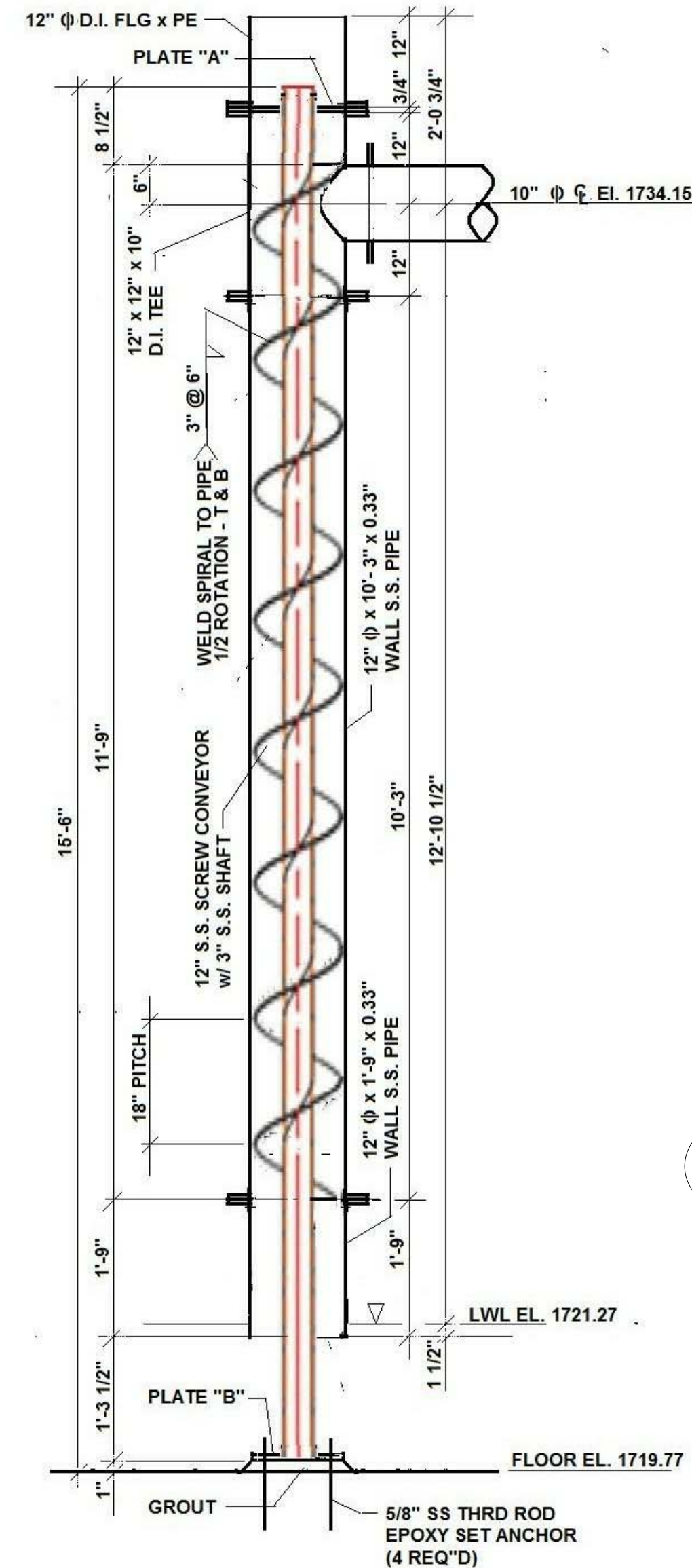
DRAWING NO.
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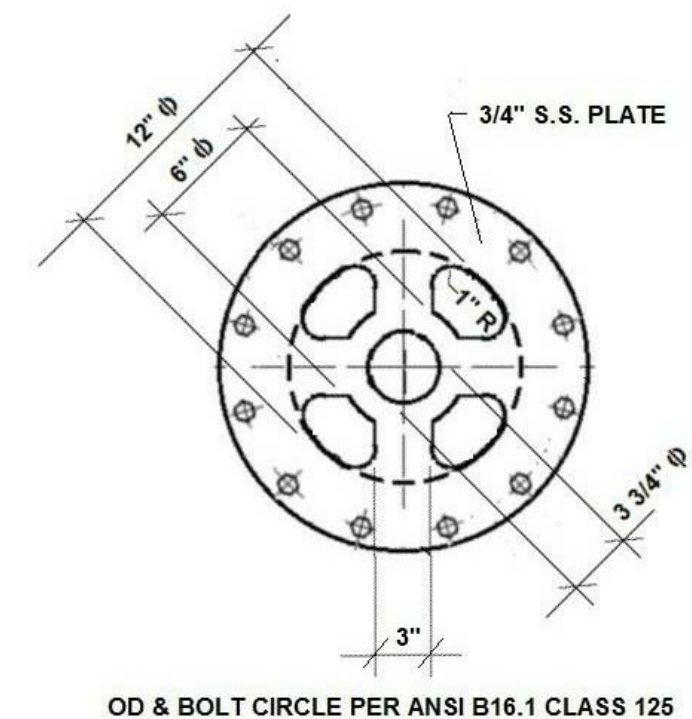
A SECTION
S-503 3/4" = 1'-0"
6" 3" 0 1" 2"



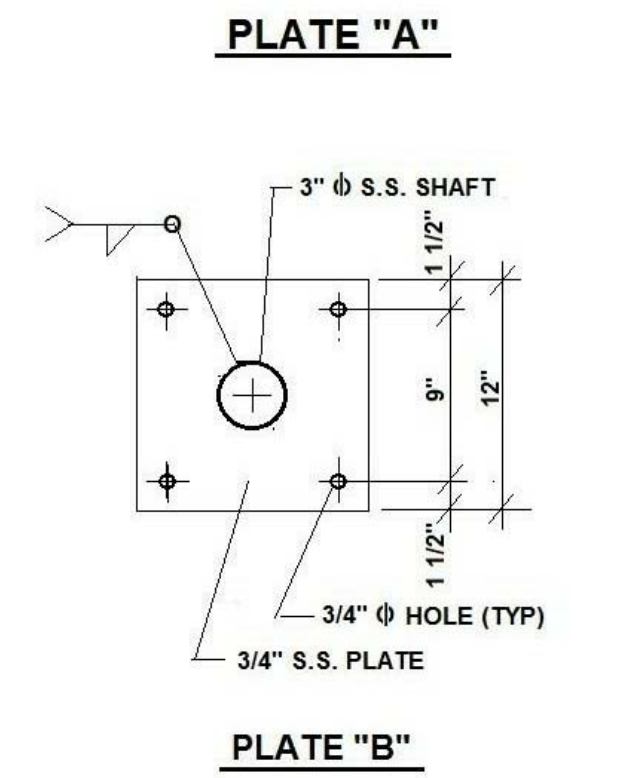
1 DETAIL
S-503 1" = 1'-0"
1" 6" 0 1"



2 INFLUENT ENERGY DISSIPATOR
NOT TO SCALE



OD & BOLT CIRCLE PER ANSI B16.1 CLASS 125



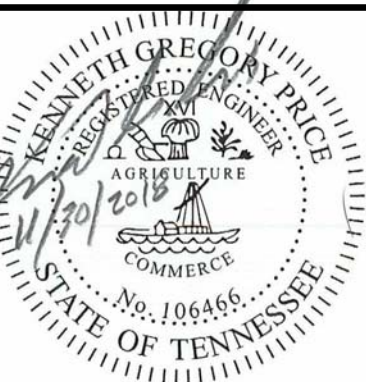
3 PLATE DETAILS
NOT TO SCALE

NO.	REVISIONS	DATE	BY	APP'D
	DESCRIPTIONS			

DESIGNED: KGP
DRAWN: KGP
CHECKED: PCC
APPROVED: NH

WASTEWATER TREATMENT PLANT EXPANSION
BLEDSOE COUNTY CORRECTIONAL COMPLEX
PIKEVILLE, BLED SOE COUNTY, TENNESSEE SRC PROJECT 142/013-01-2013-06

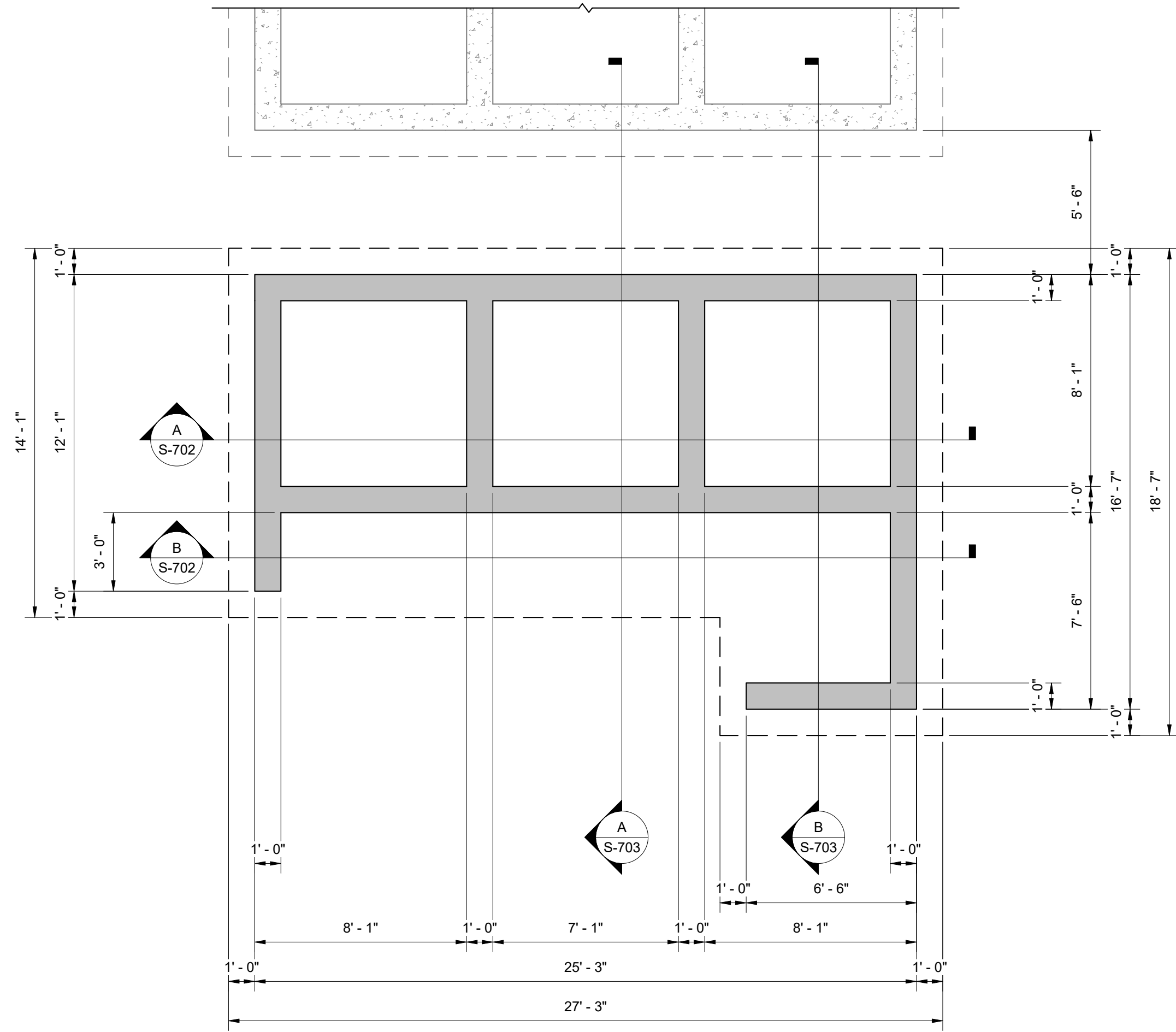
SBR AND POST EQUALIZATION BASINS
SECTIONS AND DETAILS - SHEET 2



JOB NO. N16003
ISSUE DATE NOVEMBER 30, 2018
SCALE As indicated
DRAWING NO. S-505

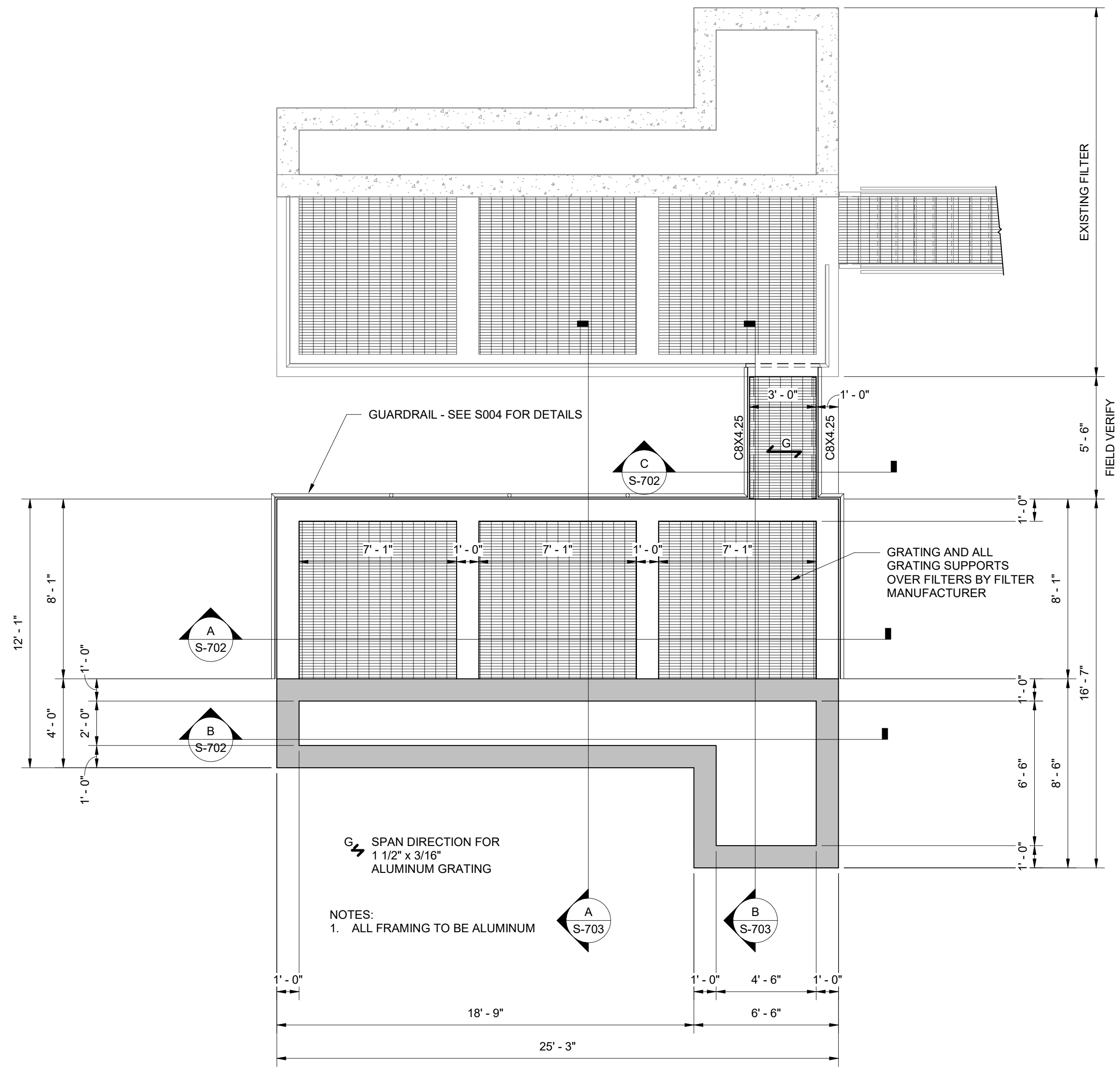
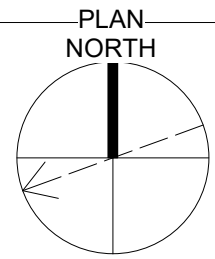
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DATE OF PRINT: 3/21/2019 7:40:29 AM



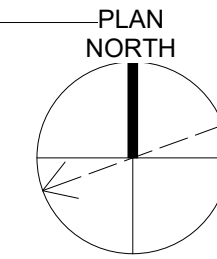
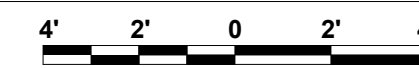
FOUNDATION PLAN

1/4" = 1'-0"

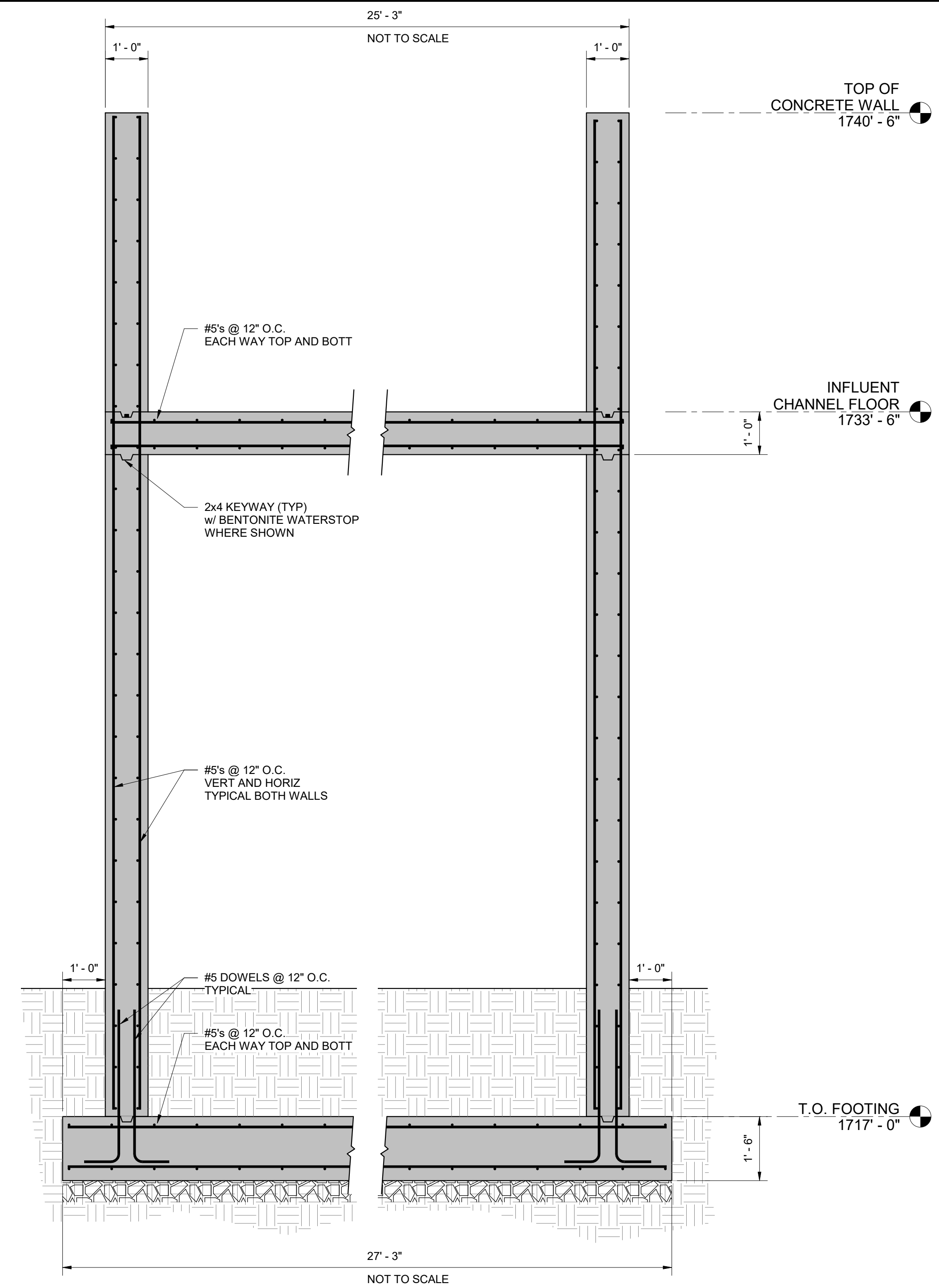
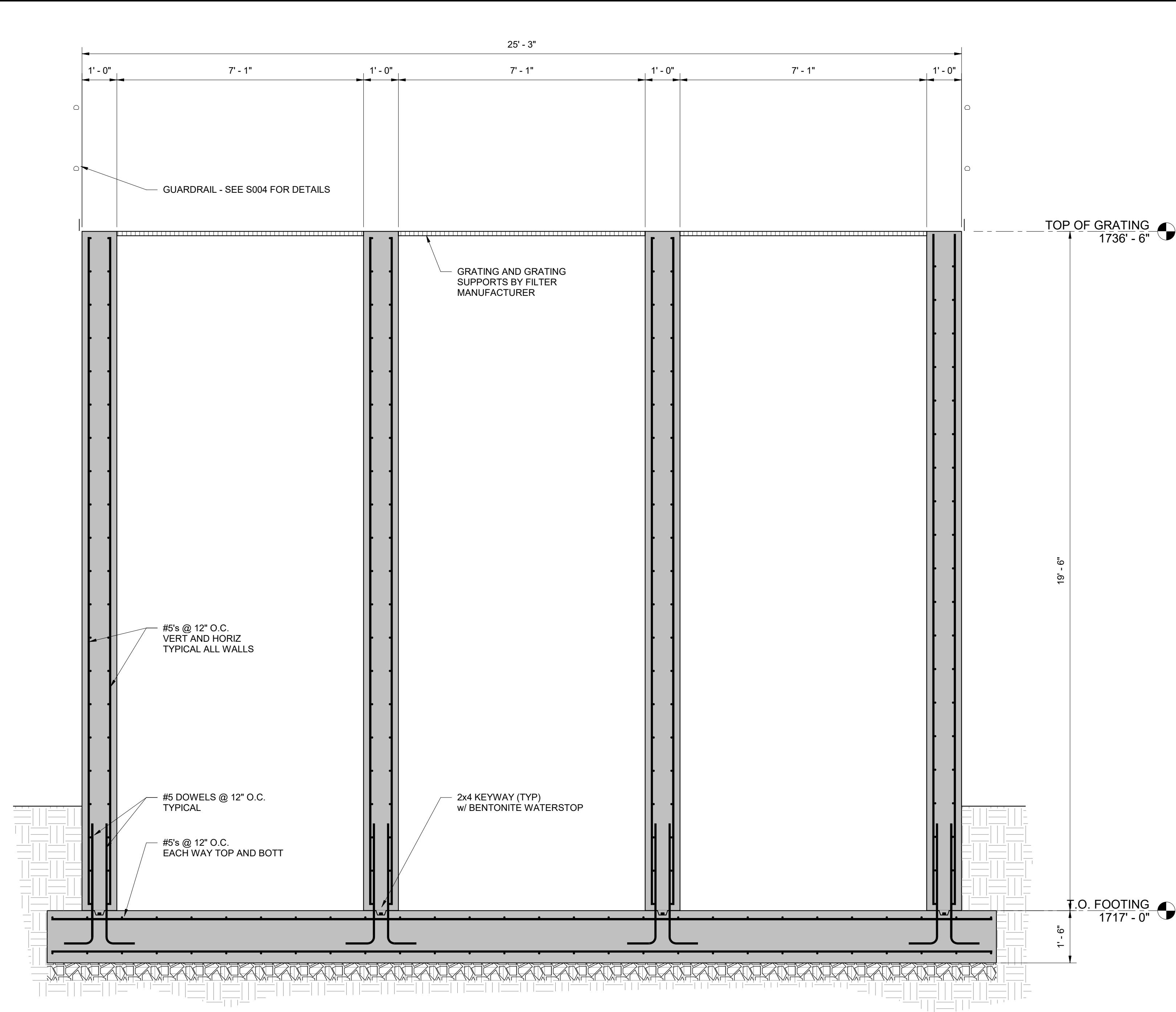


TOP OF GRATING

1/4" = 1'-0"

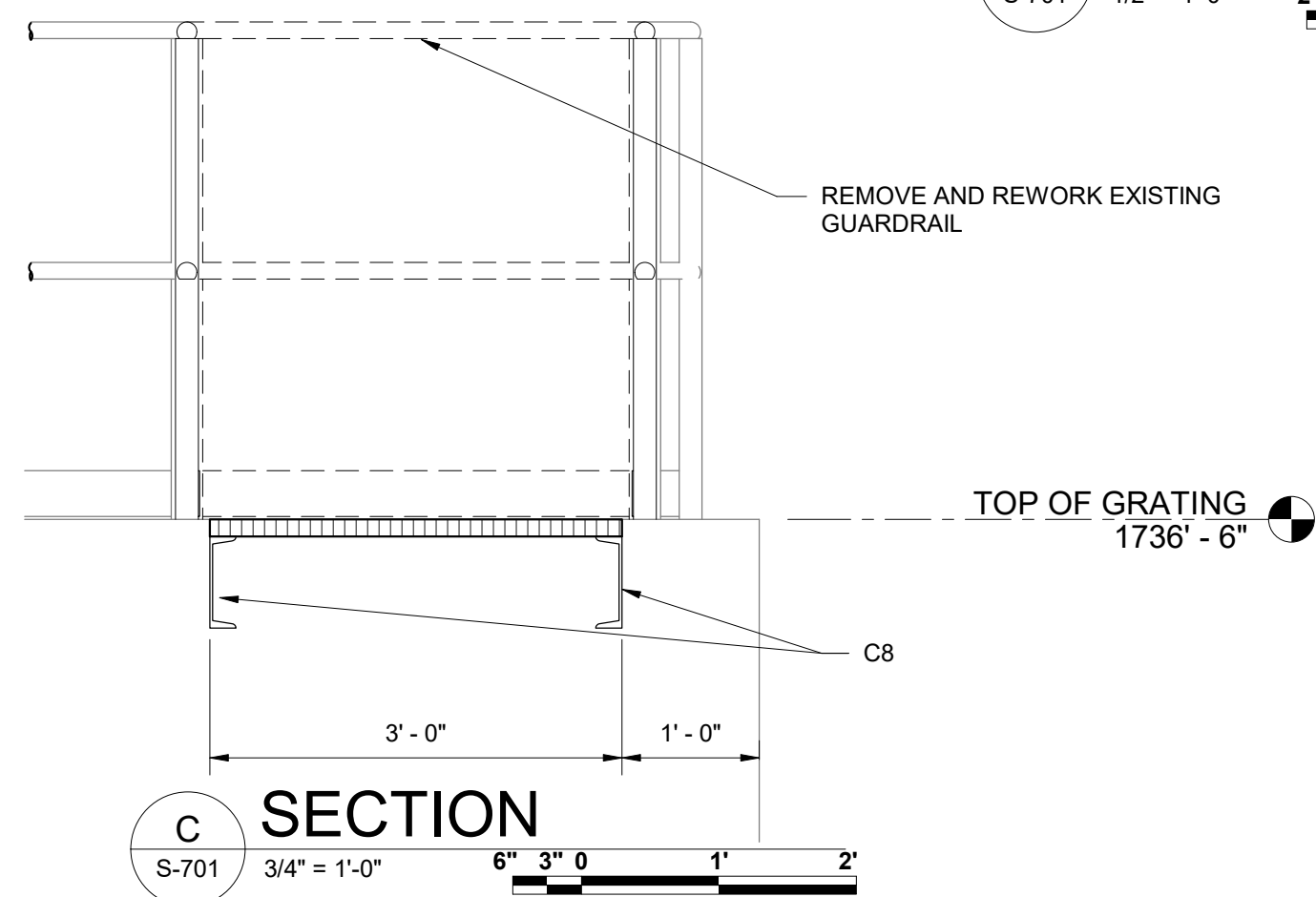


DESIGNED KGP		REVISIONS		DATE		BY		APPD	
		NO.	DESCRIPTIONS						
DRAWN KGP		CHECKED PCC		APPROVED NH		WASTEWATER TREATMENT PLANT EXPANSION BLEDSOE COUNTY CORRECTIONAL COMPLEX PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06			
EFFLUENT FILTERS PLANS						ENGINEERS, INC. 3584 PERIMETER HILL DRIVE, SUITE 140 NASHVILLE, TN 37211 615-834-8300			
JOB NO. N16003		ISSUE DATE NOVEMBER 30, 2018				SCALE 1/4" = 1'-0"			
DRAWING NO. S-701		BENNETH GREGORY PRICE REGISTERED PROFESSIONAL ENGINEER No. 106546 STATE OF TENNESSEE COMMERCIAL							



A SECTION
S-701 1/2" = 1'-0"
2' 1' 0 1' 2'

B SECTION
S-701 1/2" = 1'-0"
2' 1' 0 1' 2'



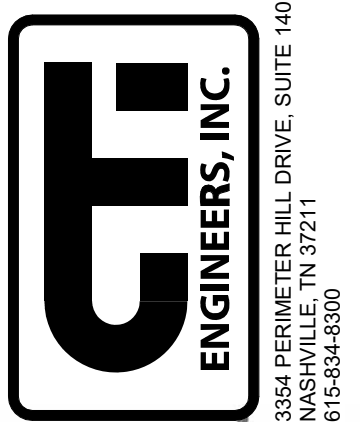
C SECTION
S-701 3/4" = 1'-0"
6' 3' 0 1' 2'

REVISIONS		DATE	BY	APPD
NO.	DESCRIPTIONS			

DESIGNED	DRAWN	CHECKED	APPROVED
KGP	KGP	PCC	NH

WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SEC PROJECT 142/013-01-2013-06

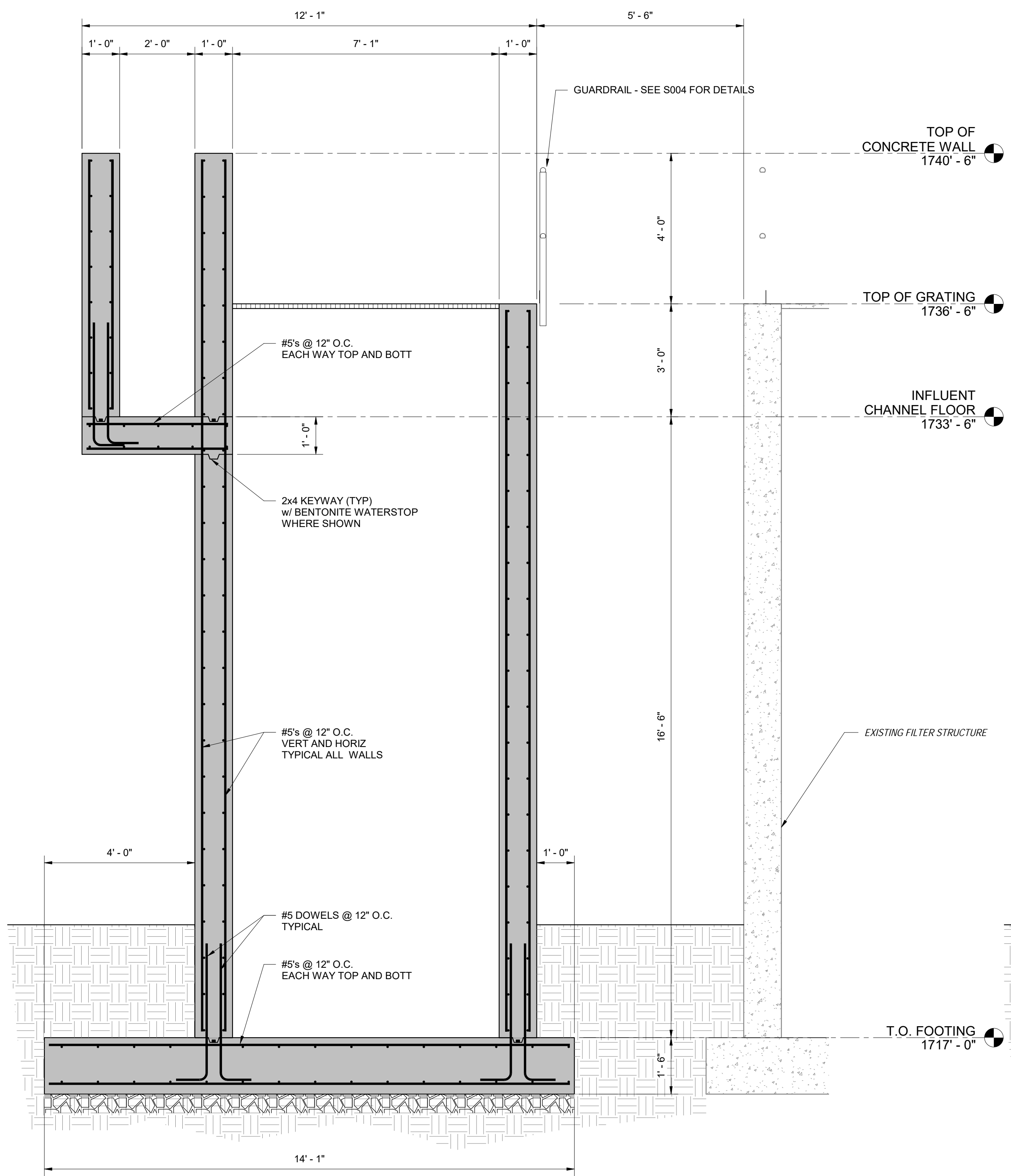
**EFFLUENT FILTERS
SECTIONS**



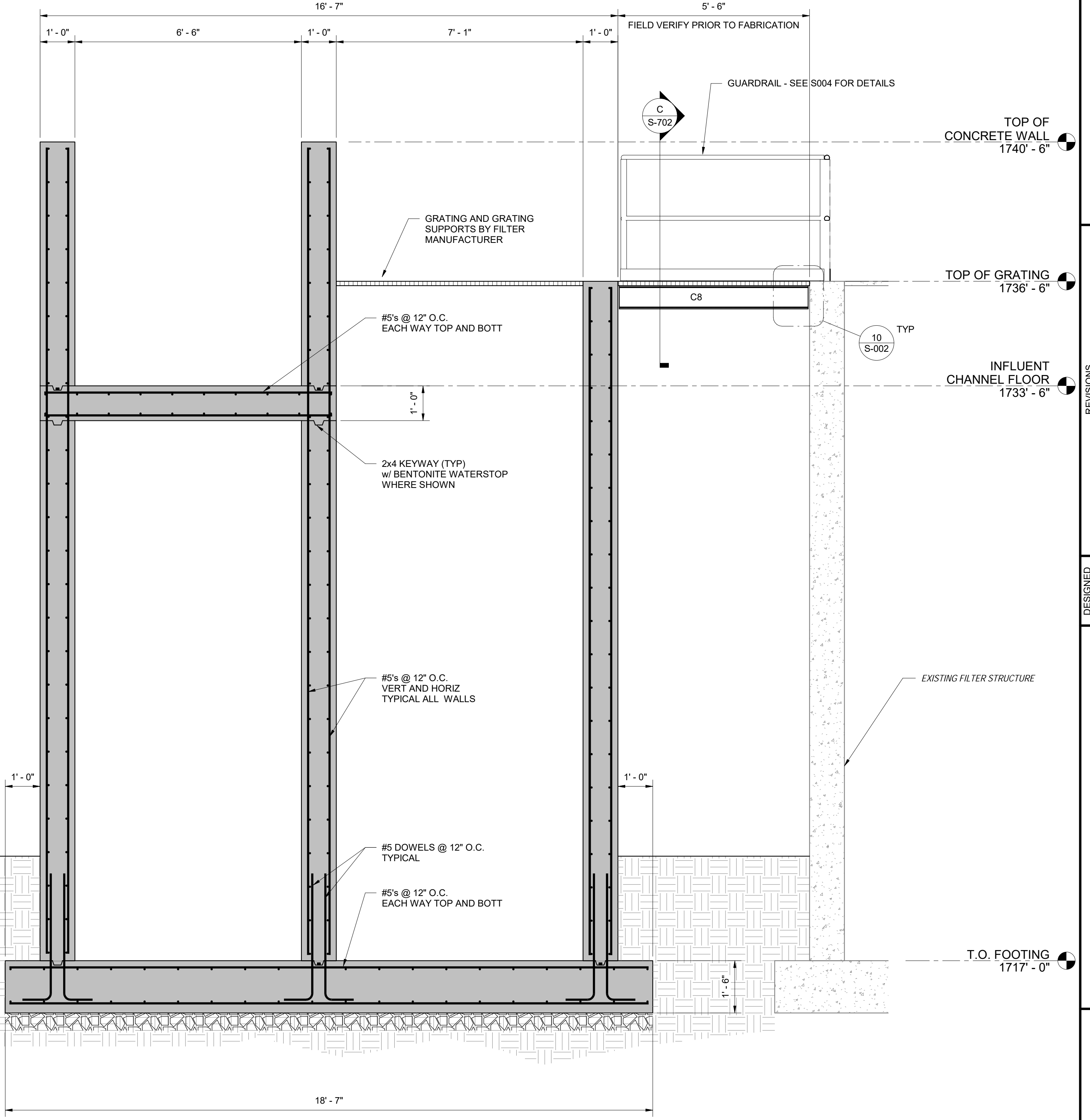
JOB NO. N16003
ISSUE DATE NOVEMBER 30, 2018
SCALE As indicated
DRAWING NO. S-702

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DATE OF PRINT: 3/21/2019 7:40:30 AM



A SECTION
S-701 1/2" = 1'-0"
2' 1' 0 1' 2'



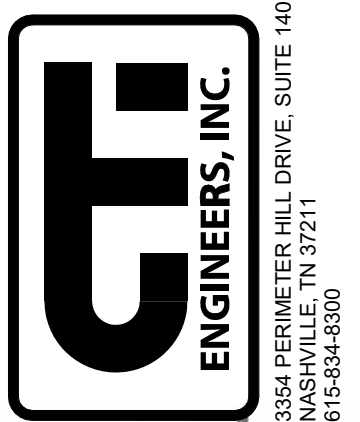
B SECTION
S-701 1/2" = 1'-0"
2' 1' 0 1' 2'

NO.	REVISIONS	DATE	BY	APPD

DESIGNED: KGP
DRAWN: KGP
CHECKED: PCC
APPROVED: NH

WASTEWATER TREATMENT PLANT EXPANSION
BLEDSOE COUNTY CORRECTIONAL COMPLEX
PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

EFFLUENT FILTERS SECTIONS

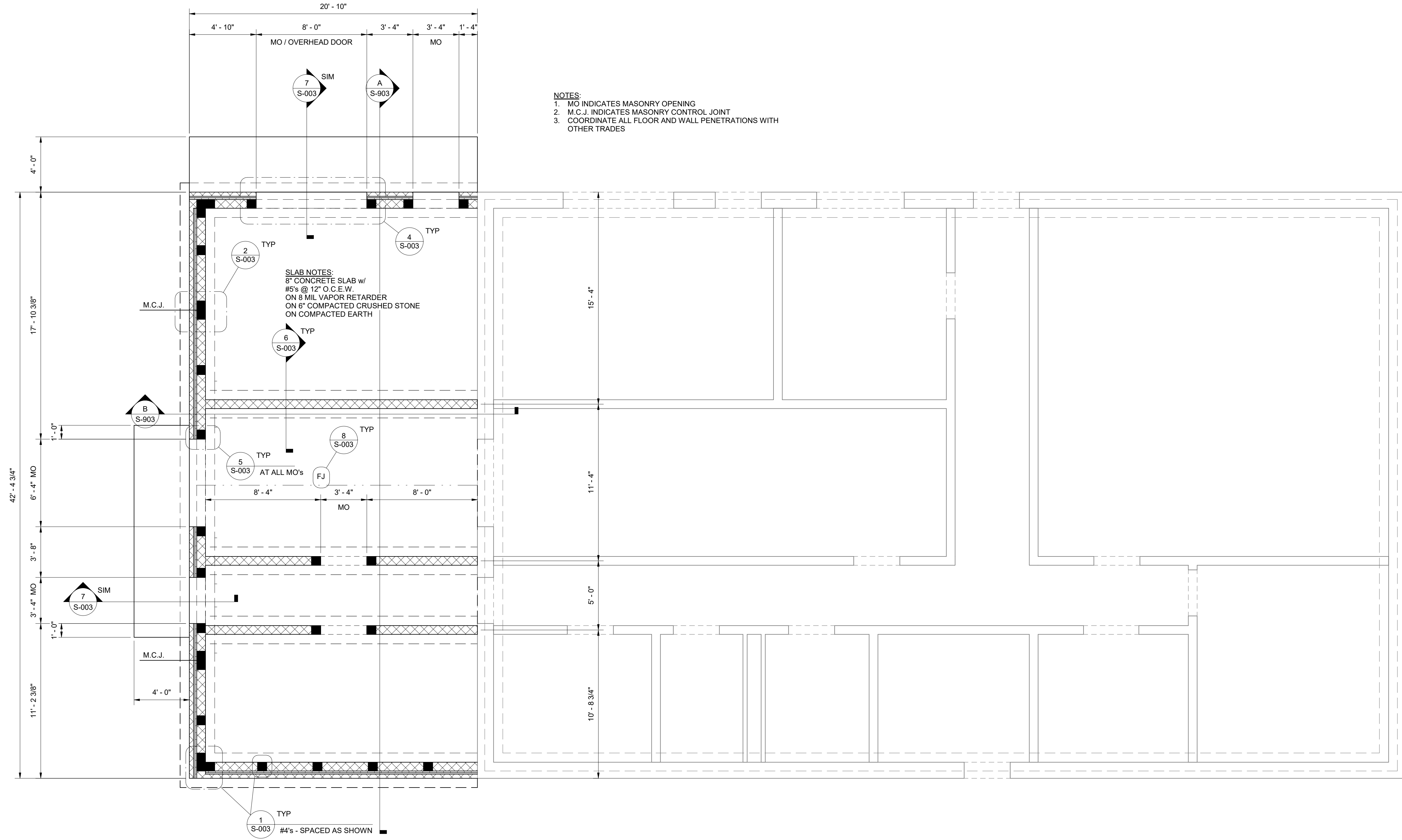


JOB NO.
N16003

ISSUE DATE
NOVEMBER 30, 2018

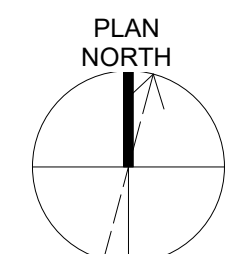
SCALE
1/2" = 1'-0"

DRAWING NO.
S-703



FOUNDATION PLAN

1/4" = 1'-0"

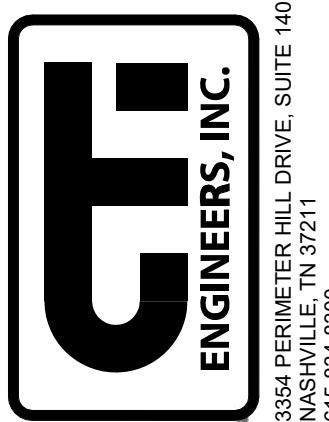


REVISIONS		DATE	BY	APPD
NO.	DESCRIPTIONS			

DESIGNED	DRAWN	CHECKED	PCC	APPROVED
KGP	KGP	KGP	PCC	NH

WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

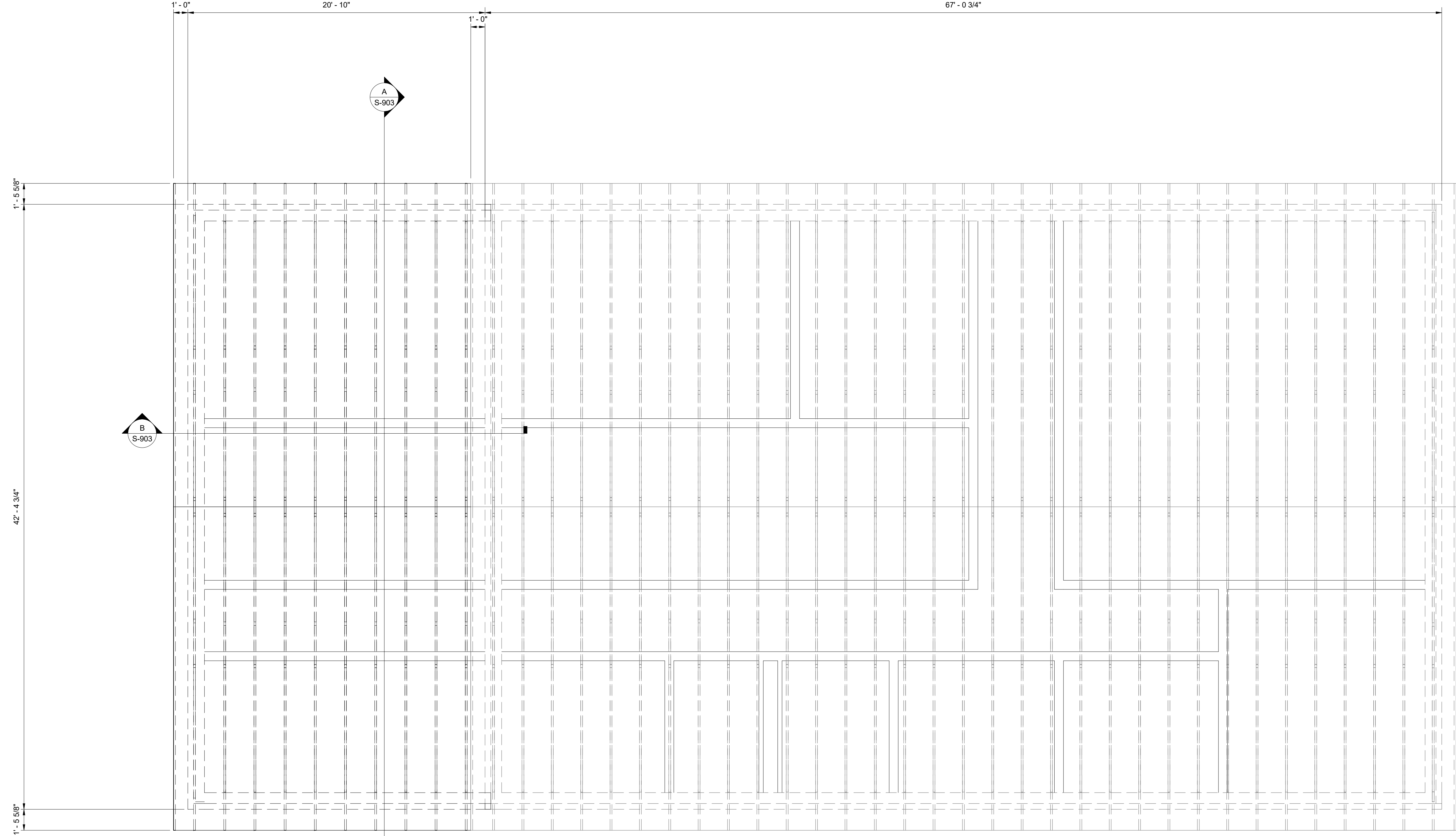
LAB / CONTROL BUILDING
 FOUNDATION PLAN



JOB NO. N16003
ISSUE DATE NOVEMBER 30, 2018
SCALE 1/4" = 1'-0"
DRAWING NO. S-901

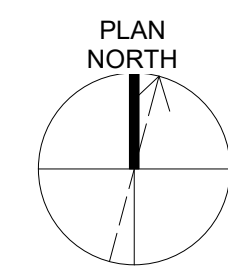
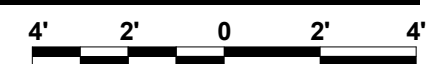
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DATE OF PRINT: 3/21/2019 7:45:09 AM



ROOF FRAMING PLAN

1/4" = 1'-0"



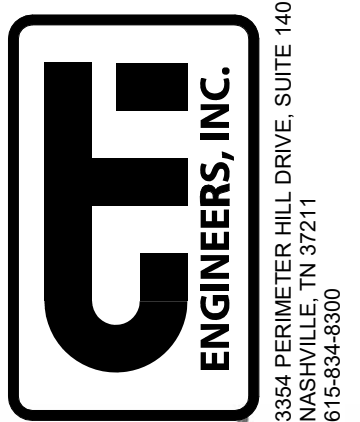
DESIGNED
 KGP
 DRAWN
 KGP
 CHECKED
 PCC
 APPROVED
 NH

REVISIONS

NO.	DESCRIPTIONS	DATE	BY	APPD

WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

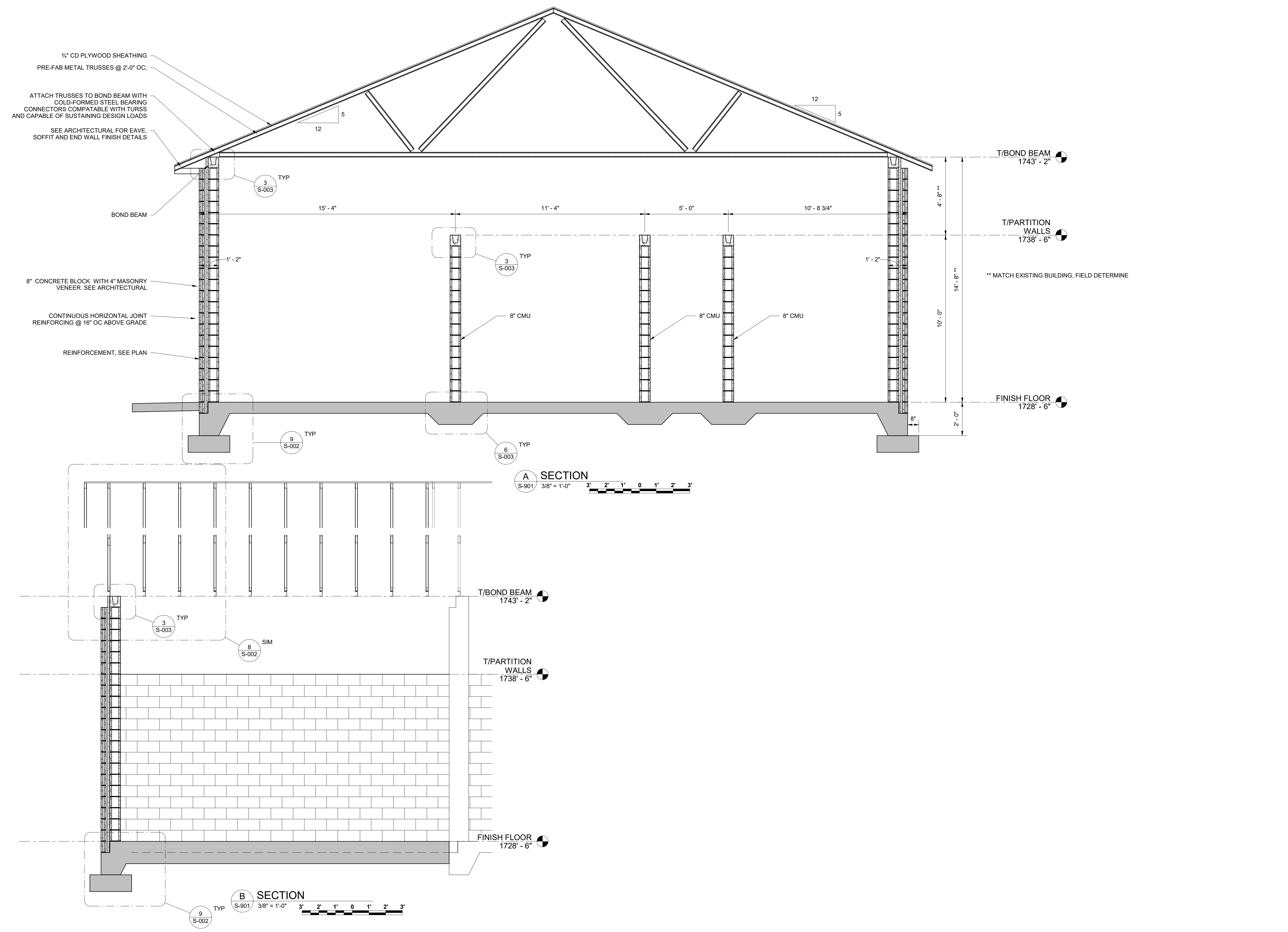
LAB / CONTROL BUILDING
 ROOF FRAMING PLAN



JOB NO.
 N16003
 ISSUE DATE
 NOVEMBER 30, 2018
 SCALE
 1/4" = 1'-0"
 DRAWING NO.
 S-902

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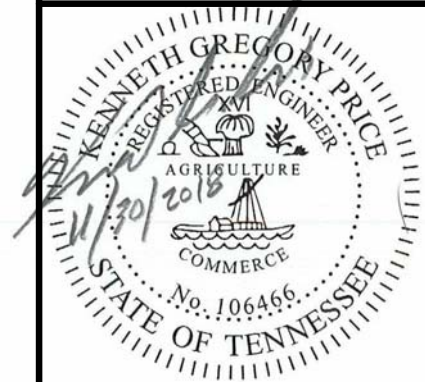
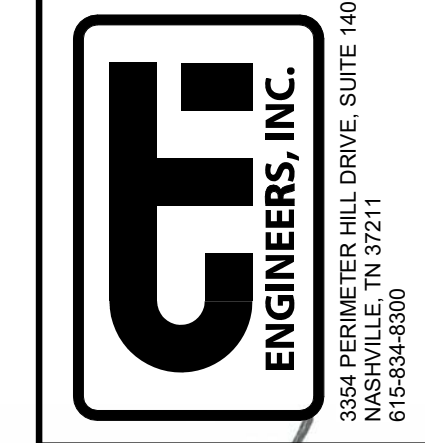
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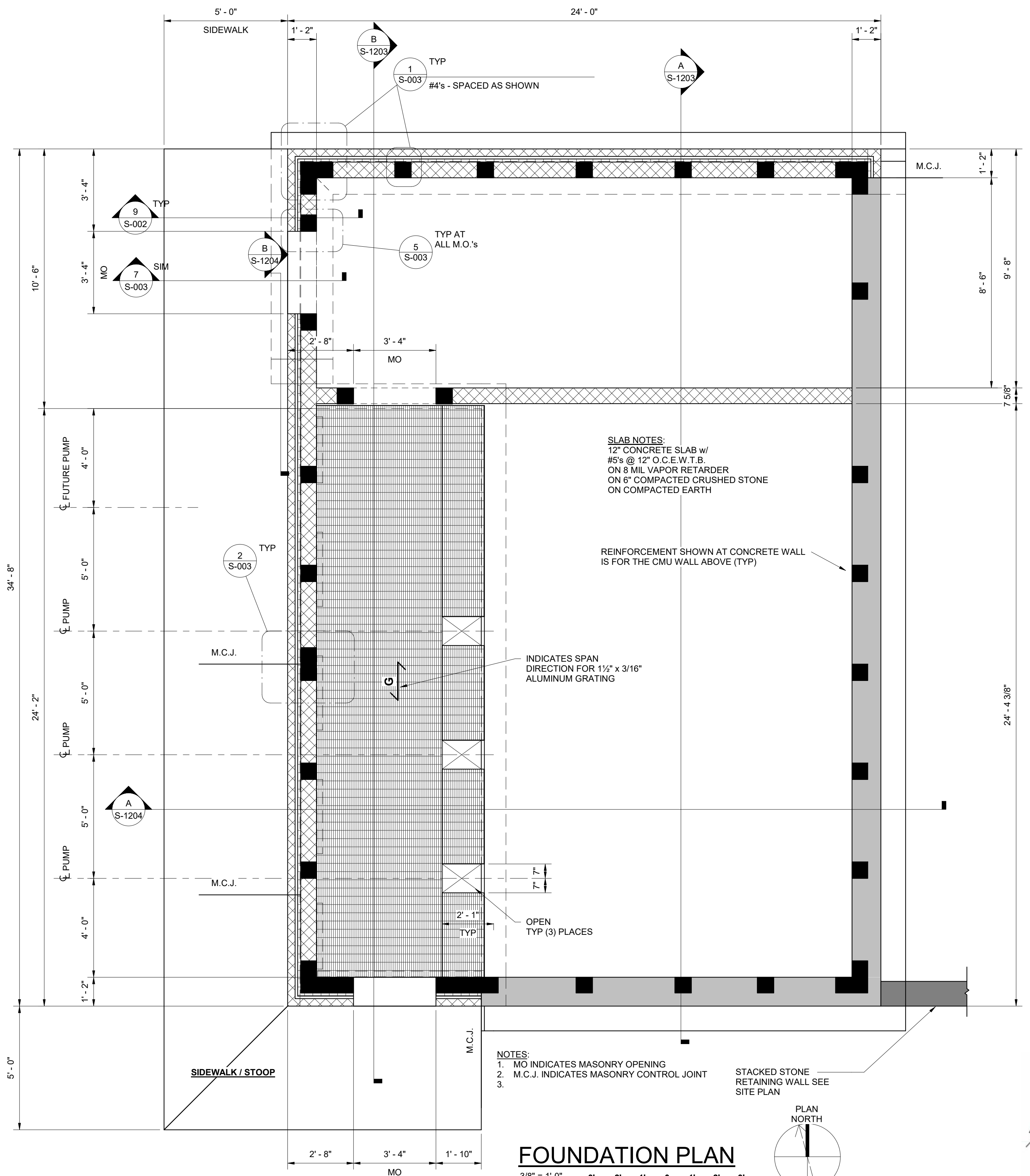
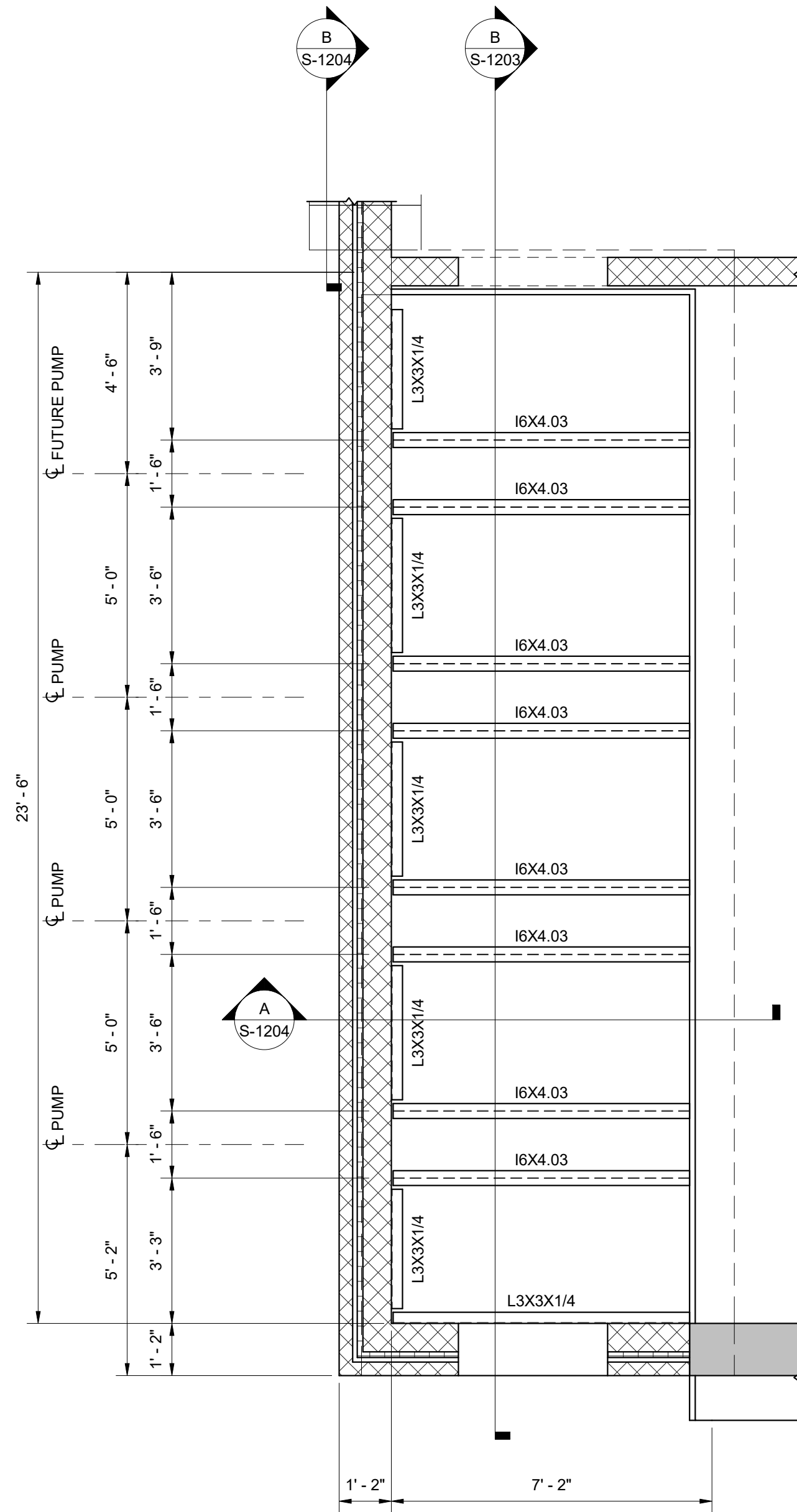
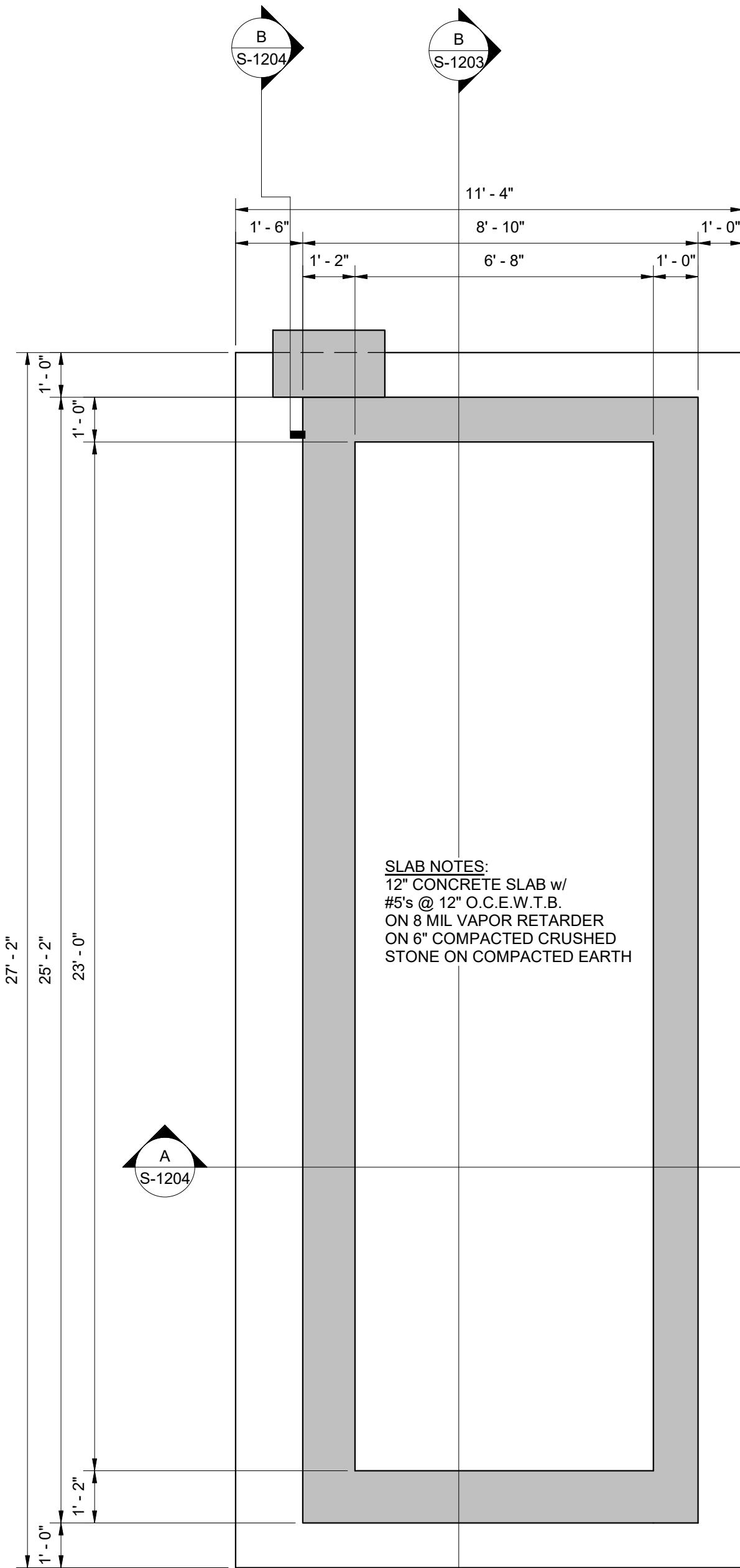
REVISIONS		DATE	BY	APPD
NO.	DESCRIPTIONS			

DESIGNED	KGK	DRAWN	KGK	CHECKED	PCC	APPROVED	NH
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WASTEWATER TREATMENT PLANT EXPANSION
BLED SOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLED SOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06
LAB / CONTROL BUILDING
SECTIONS



JOB NO.	N16003
ISSUE DATE	NOVEMBER 30, 2018
SCALE	3/8" = 1'-0"
DRAWING NO.	S-903

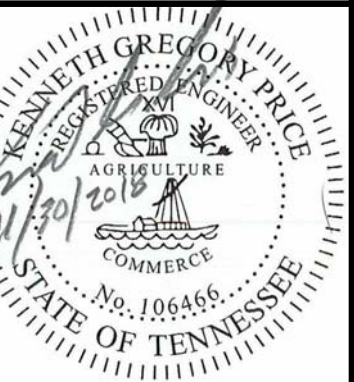
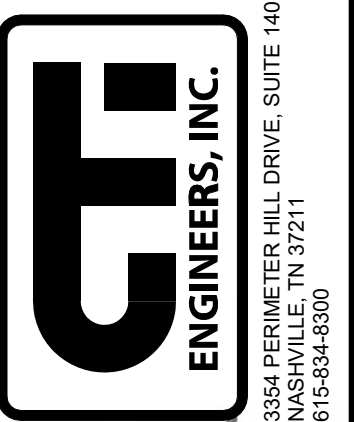


REVISIONS		DATE	BY	APPD
NO.	DESCRIPTIONS			

DESIGNED: KGP
DRAWN: KGP
CHECKED: PCC
APPROVED: NH

WASTEWATER TREATMENT PLANT EXPANSION
BLEDSOE COUNTY CORRECTIONAL COMPLEX
PIKEVILLE, BLEDSCO COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

SPRAY IRRIGATION PUMP STATION
FOUNDATION AND TRENCH PLANS

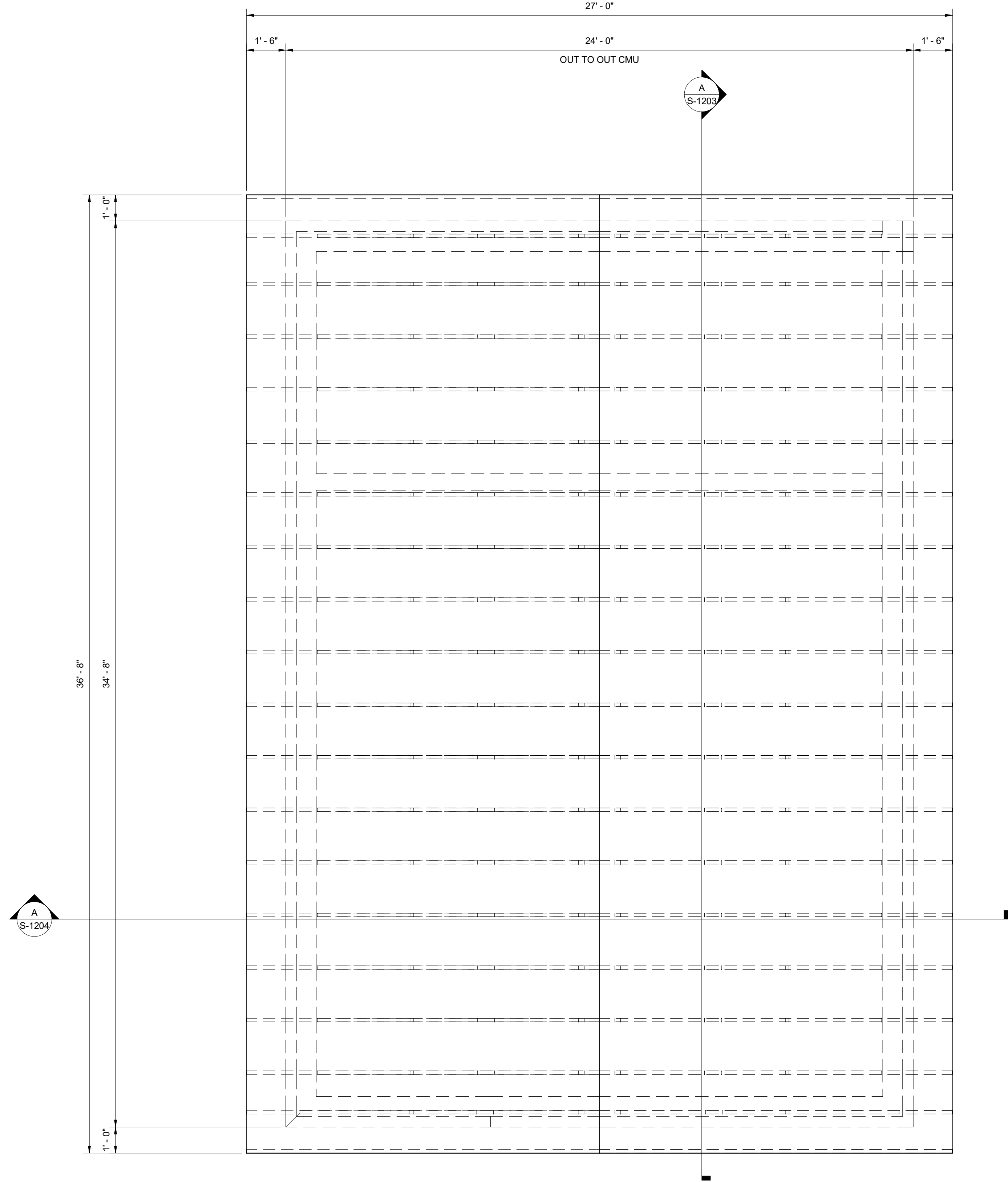


JOB NO.
N16003

ISSUE DATE
NOVEMBER 30, 2018

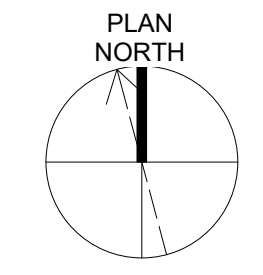
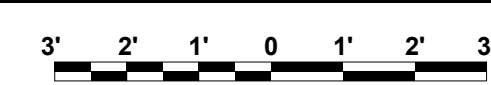
SCALE
3/8" = 1'-0"

DRAWING NO.
S-1201



ROOF FRAMING PLAN

3/8" = 1'-0"



DESIGNED
KGP

DRAWN
KGP

CHECKED
PCC

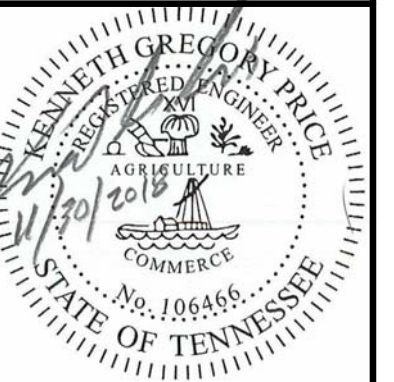
APPROVED
NH

REVISIONS

NO.	DESCRIPTIONS	DATE	BY	APPD

WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLED SOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

SPRAY IRRIGATION PUMP STATION
 ROOF FRAMING PLAN

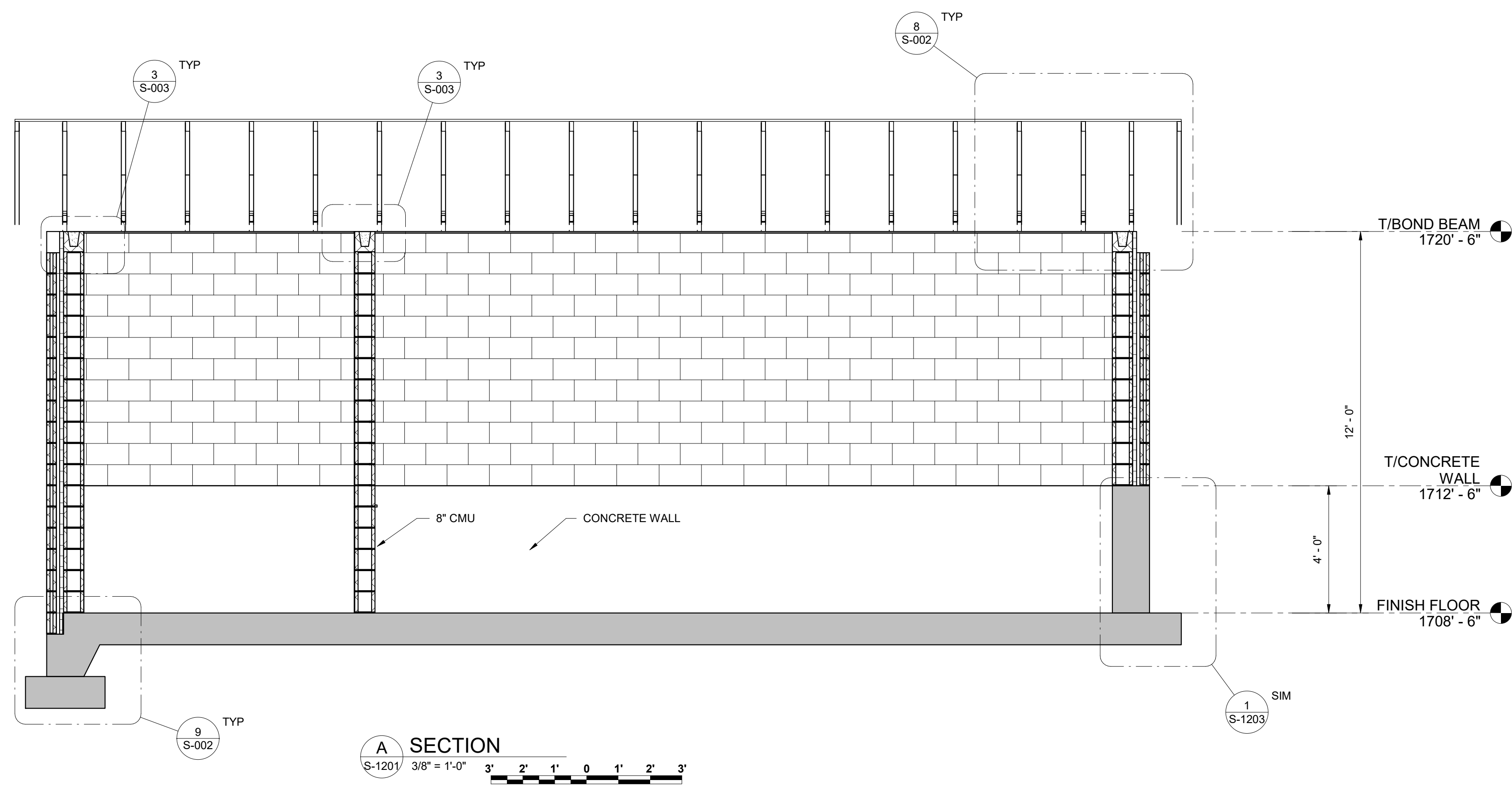


JOB NO.
N16003

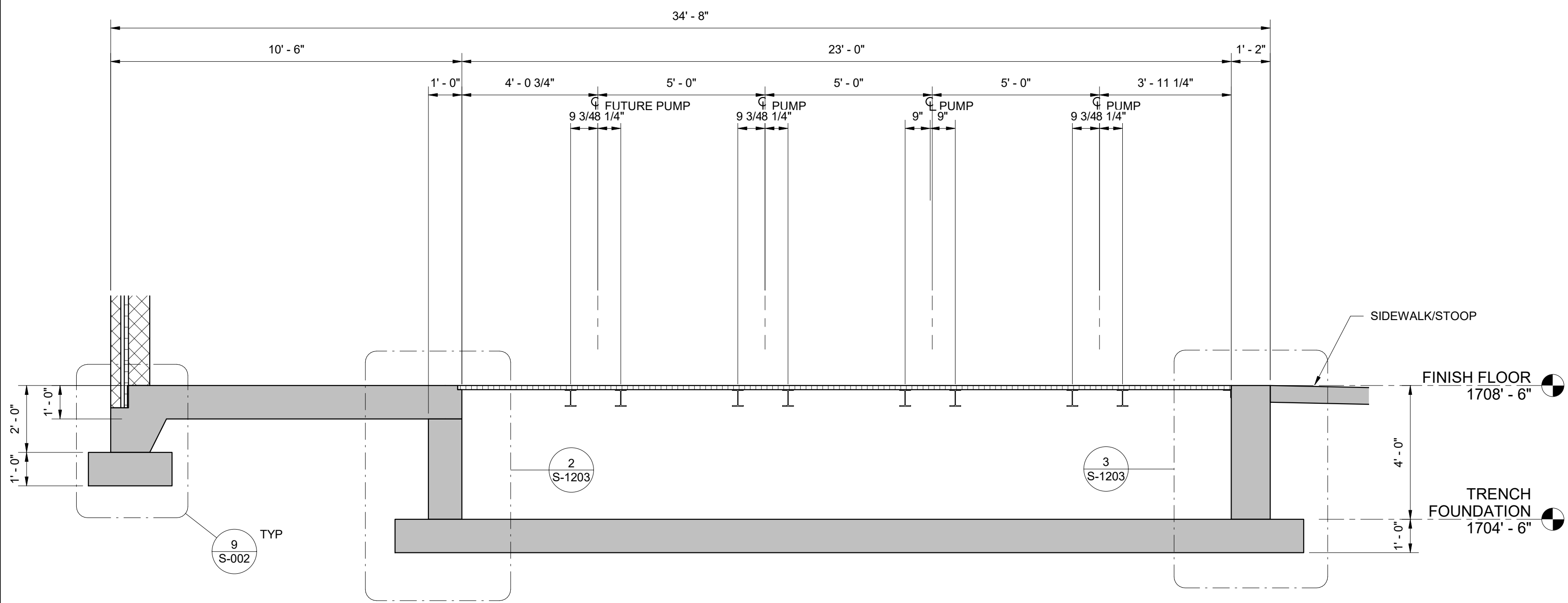
ISSUE DATE
NOVEMBER 30, 2018

SCALE
3/8" = 1'-0"

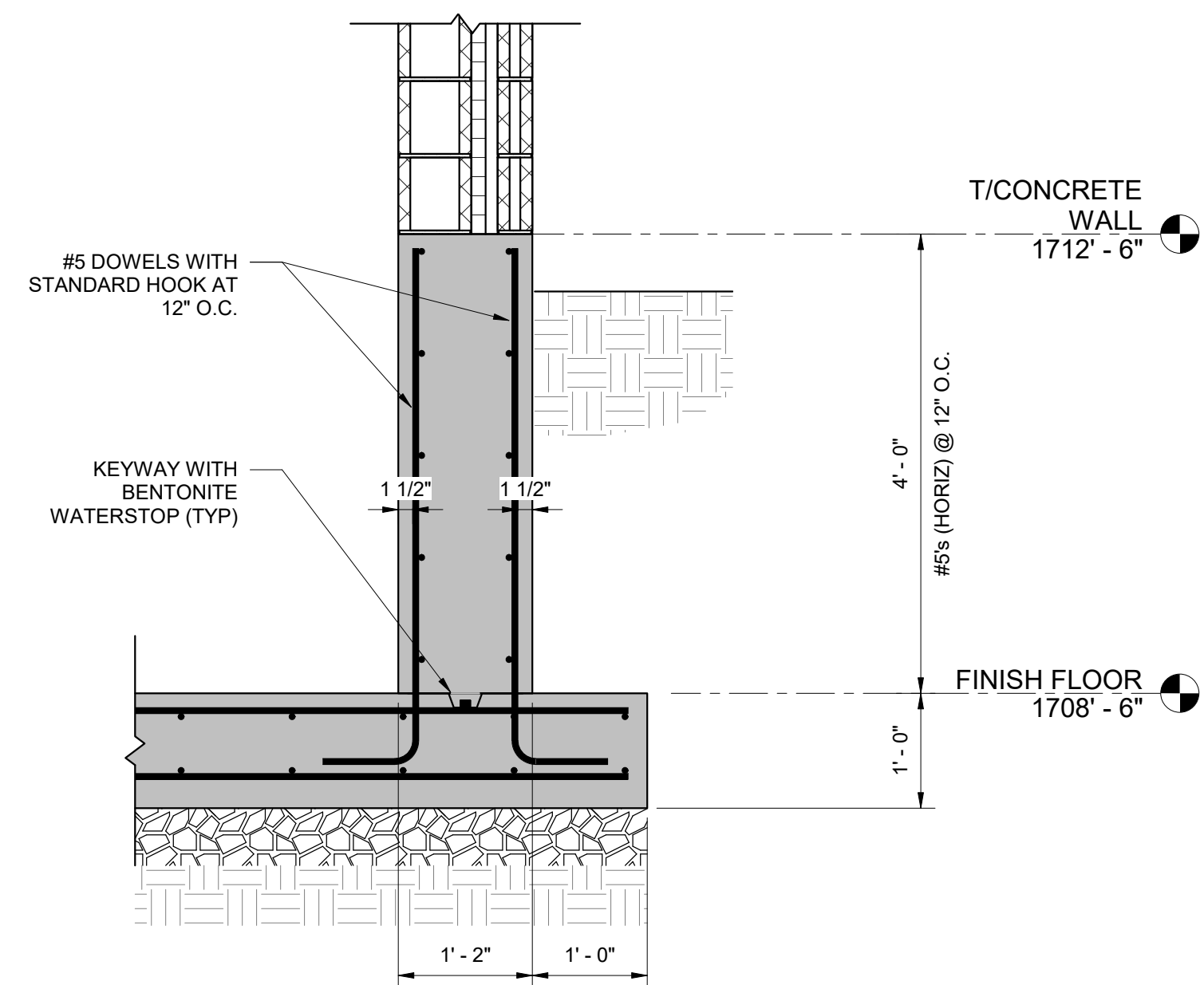
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S-1202



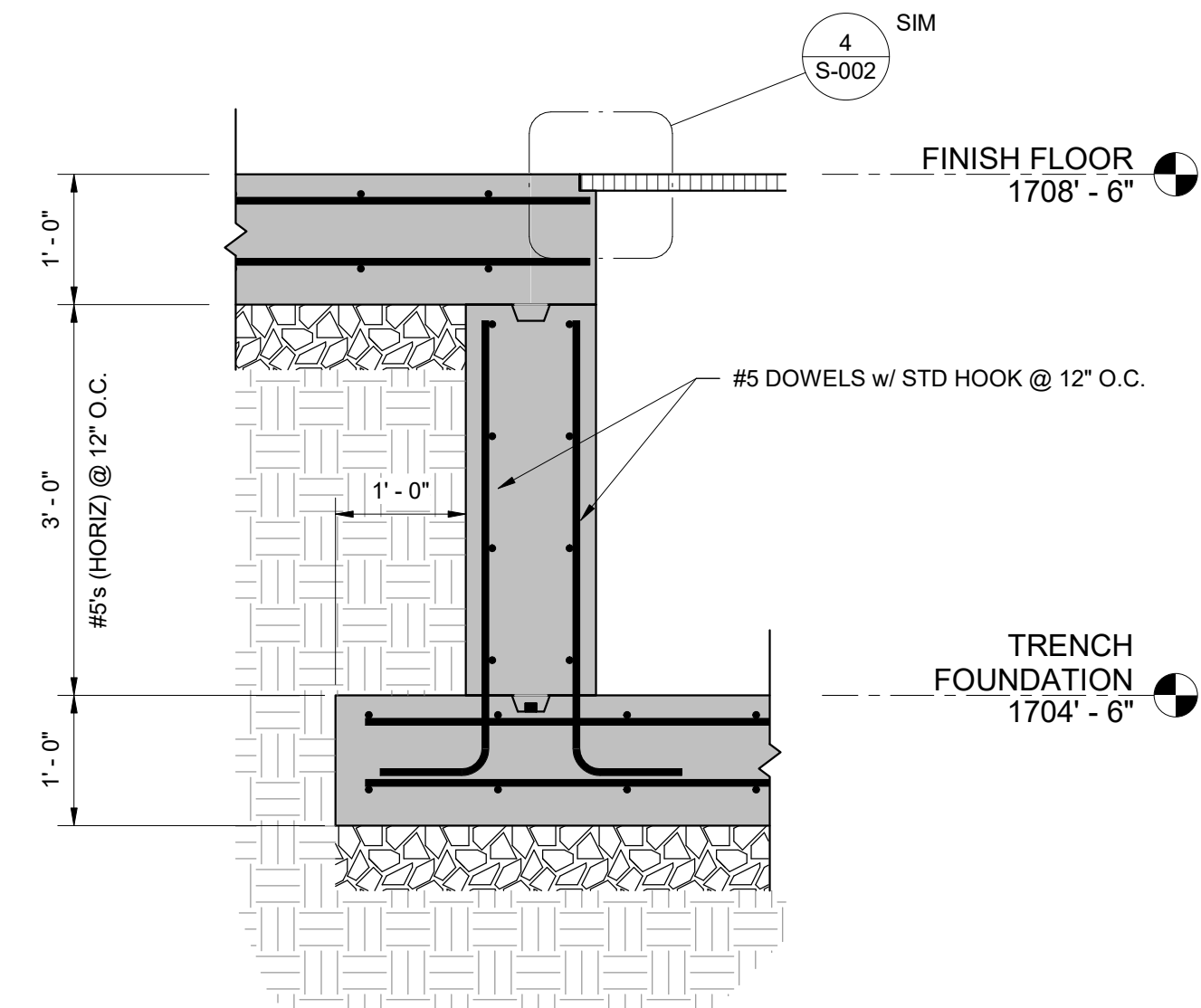
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S-1201 3/8" = 1'-0" 3' 2' 1' 0' 1' 2' 3'



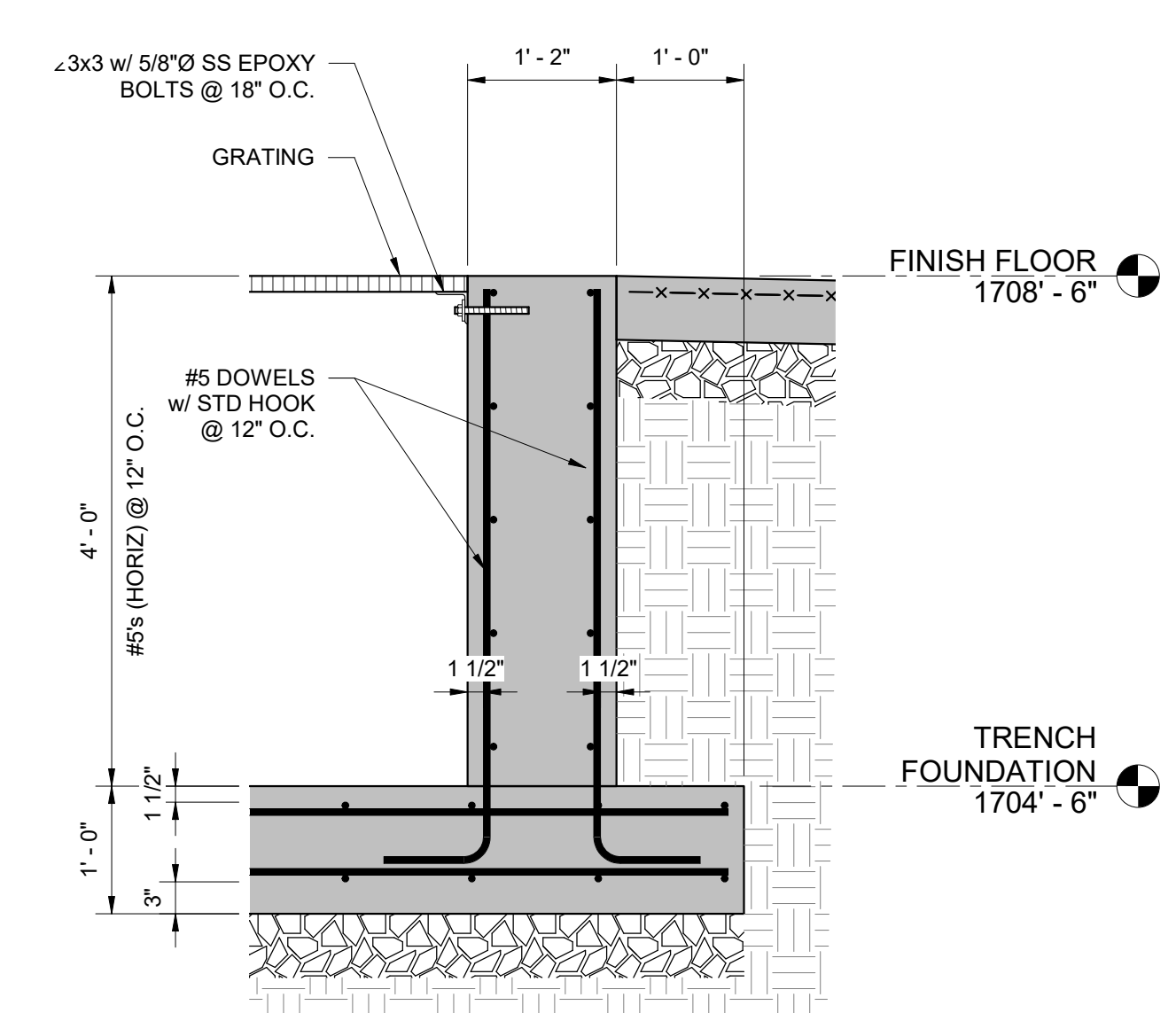
B SECTION
S-1201 3/8" = 1'-0" 3' 2' 1' 0' 1' 2' 3'



1 DETAIL
S-1203 3/4" = 1'-0" 6" 3" 0 1' 2'



2 DETAIL
S-1203 3/4" = 1'-0" 6" 3" 0 1' 2'

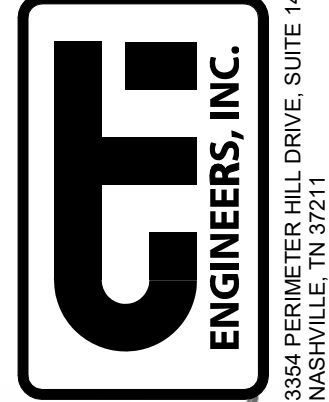


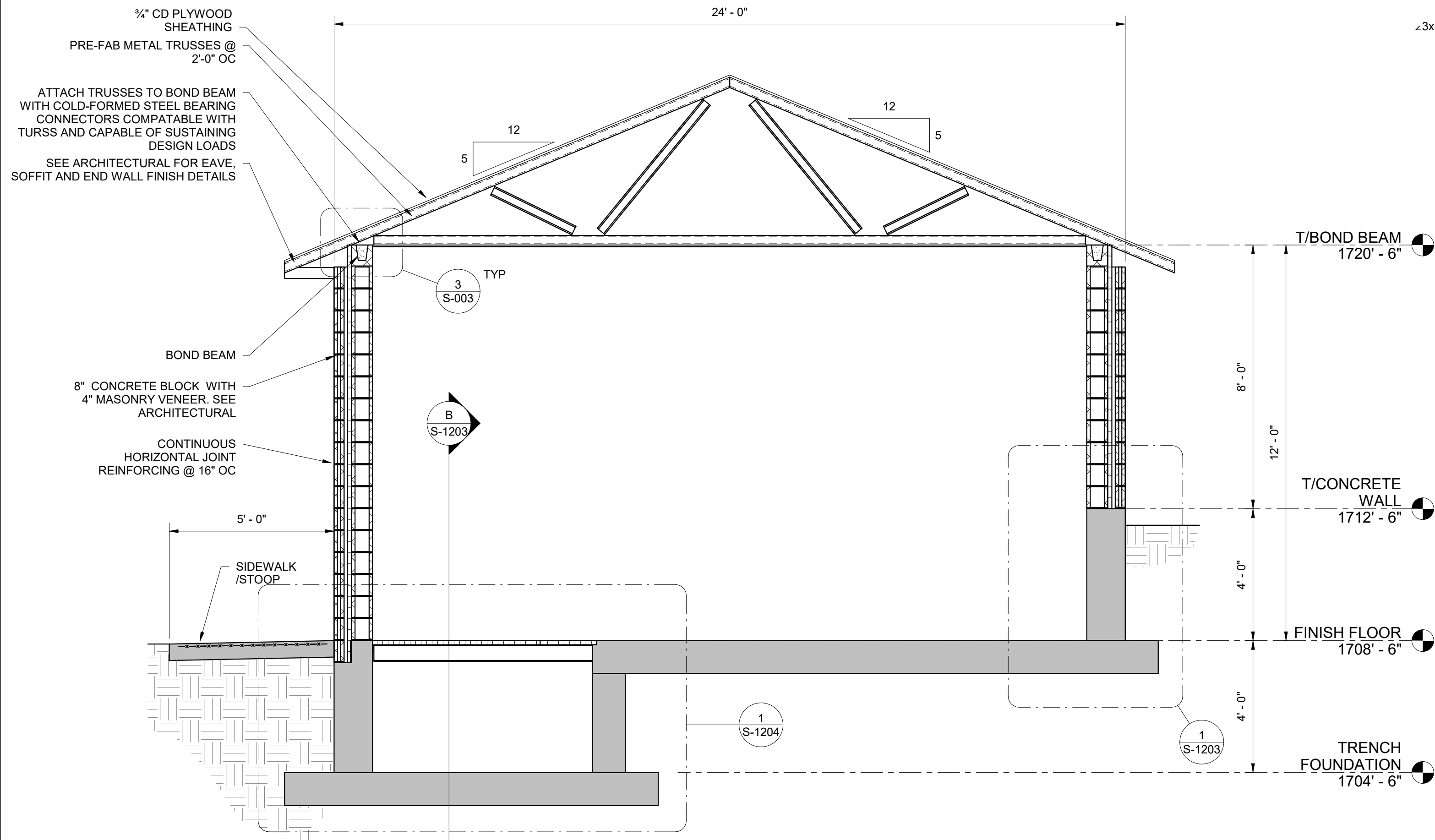
3 DETAIL
S-1203 3/4" = 1'-0" 6" 3" 0 1' 2'

REVISIONS		DATE	BY	APPD
NO.	DESCRIPTIONS			

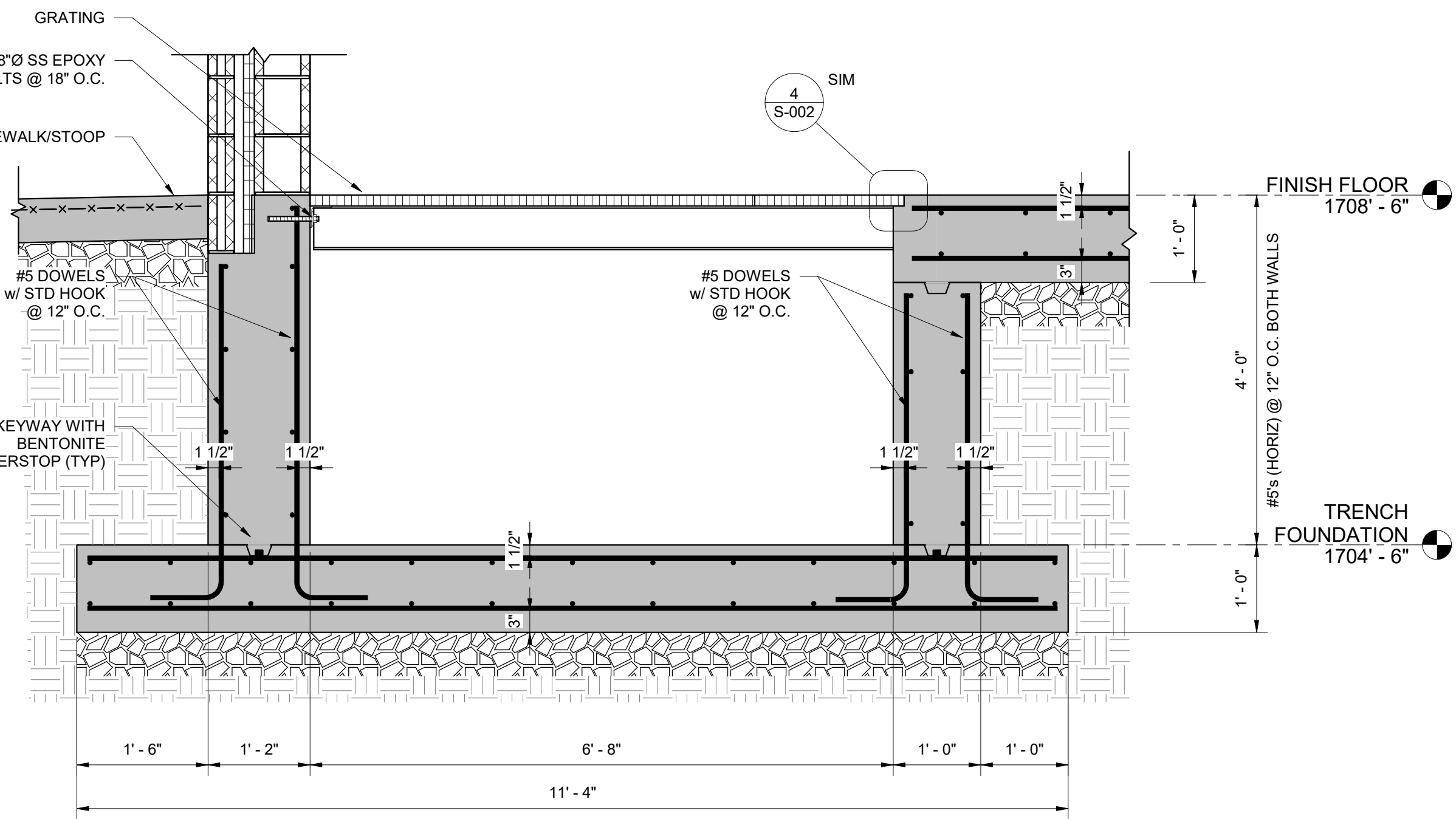
DESIGNED	DRAWN	CHECKED	APPROVED
KGP	KGP	PCC	NH

WASTEWATER TREATMENT PLANT EXPANSION BLEDSOE COUNTY CORRECTIONAL COMPLEX PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06	
SPRAY IRRIGATION PUMP STATION SECTIONS AND DETAILS	

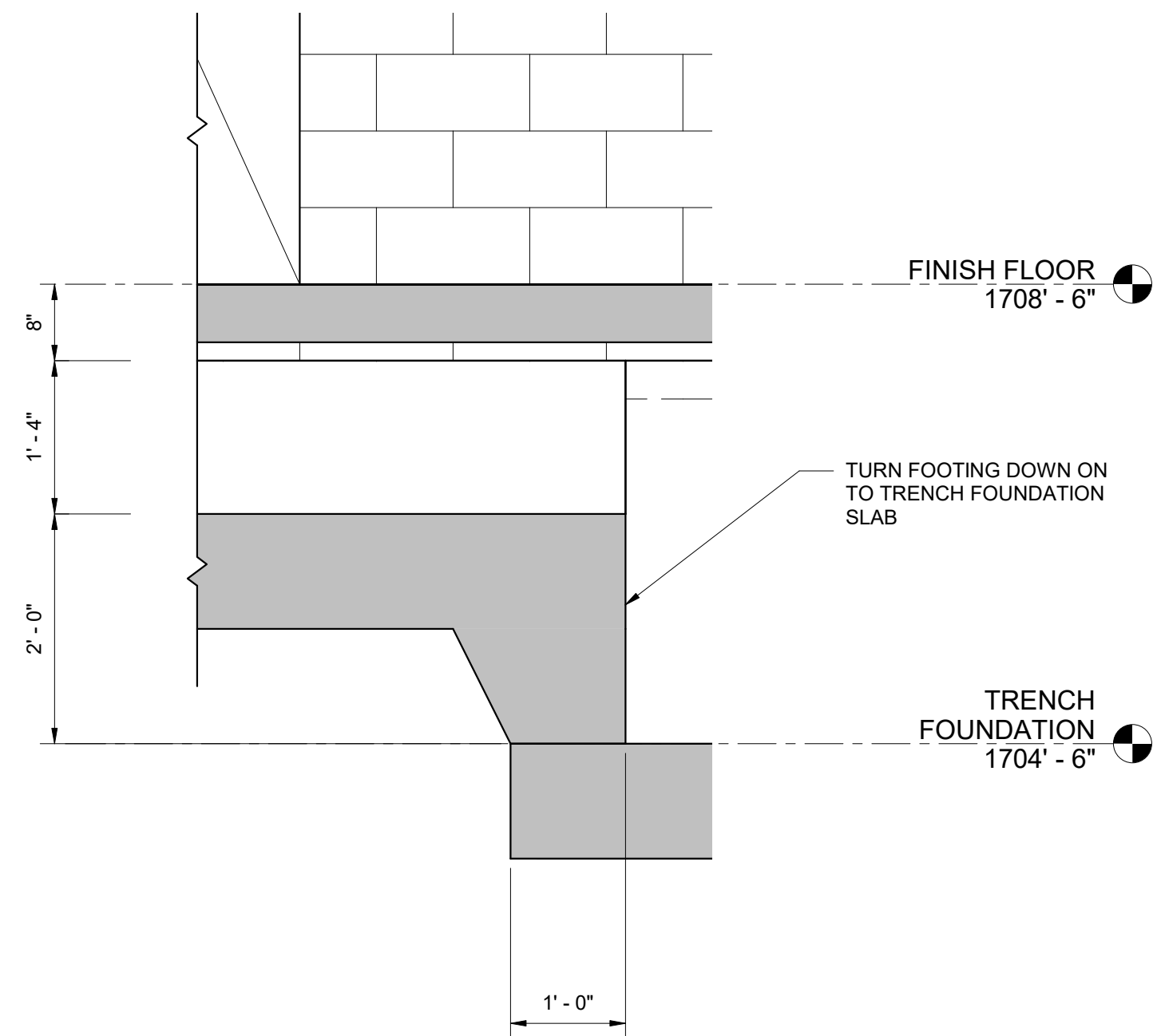
 308 PERIMETER HILL DRIVE, SUITE 140 NASHVILLE, TN 37211 615-834-8300	JOB NO. N16003
	ISSUE DATE NOVEMBER 30, 2018
SCALE As indicated	
DRAWING NO. S-1203	



A SECTION
S-1201 3/8" = 1'-0"
3' 2' 1' 0' 1' 2' 3'



1 DETAIL
S-1204 3/4" = 1'-0"
6" 3" 0' 1' 2'



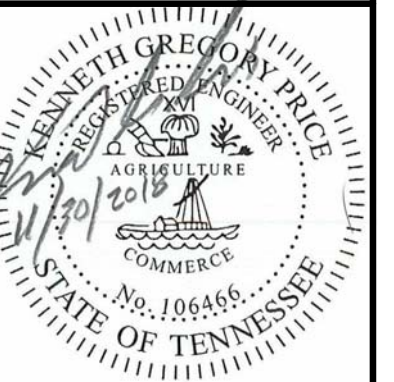
B SECTION
S-1201 3/4" = 1'-0"
6" 3" 0' 1' 2'

REVISIONS		DATE	BY	APPD
NO.	DESCRIPTIONS			

DESIGNED: KGP
DRAWN: KGP
CHECKED: PCC
APPROVED: NH

WASTEWATER TREATMENT PLANT EXPANSION
BLEDSOE COUNTY CORRECTIONAL COMPLEX
PIKEVILLE, BLED SOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

SPRAY IRRIGATION PUMP STATION
SECTIONS AND DETAILS



JOB NO.
N16003

ISSUE DATE
NOVEMBER 30, 2018

SCALE
As indicated

DRAWING NO.
S-1204

BUILDING CODES

International Building Code (IBC), 2012 edition except for:
 1. Chapter 11 Accessibility; and,
 2. Chapter 34, Section 3411 Accessibility For Existing Buildings;
 The International Fuel Gas Code (IFGC), 2012 edition
 The International Mechanical Code (IMC), 2012 edition
 The International Plumbing Code (IPC), 2012 edition
 The International Fire Code (IFC), 2012 edition
 The International Energy Conservation Code (IECC), 2012 edition
 NFPA 101 Life Safety Code, 2012 edition
 The National Electric Code (NEC), 2017 edition
 ADA Standards for Accessible Design, 2010

IECC Climate Zone is 4a

CODE INFORMATION

OCCUPANCY CLASSIFICATION:
 IBC SECTION 304.1 BUSINESS GROUP B

OCCUPANT LOAD
 IBC TABLE 1004.1.2: BUSINESS = 100 SF GROSS

BUSINESS B ALLOWABLE HEIGHT = 55'/AREA = 19,000 IBC TABLE 503

CONSTRUCTION TYPE: IBC TABLE 601: TYPE IIIB

EXIT ACCESS MAXIMUM TRAVEL DISTANCE: IBC TABLE 1016.2 FOR B = 200'
 EGRESS WIDTH PER OCCUPANT SERVED IBC 1005.3.2 = 0.2' PER OCCUPANT

CORRIDOR FIRE RESISTANCE RATING - IBC TABLE 1018.1 - RATING NOT REQUIRED FOR UNDER 30 OCCUPANTS

RESPONDING FIRE DEPARTMENT
 MOUNT CREST VOLUNTEER FIRE DEPARTMENT
 CHIEF DENNIS FRAZIER
 14 STATE ROUTE 101
 PIKEVILLE, TN 37367
 (423) 881-3500
 NO EMAIL ADDRESS

NO LOCAL BUILDING OFFICIAL

ABBREVIATIONS

AF	accessible floor	GB	grab bar	REF	refrigerator
AC	acoustical	GFBD	gypsum board	RM	room
ACM	acoustical mylar	HBD	hardboard	RB	rubber base
AFB	above finished floor	HDW	hardware	SLR	sealer
AGG	aggregate	HUD	hardwood	SEC	section
AL	aluminum	HT	height	SHT	sheet
BLK	block	HCW	hollow core wood	SHM	similar
BD	board	HM	hollow metal	SCW	solid core wood
BRK	brick	INCL	include (d), (ing)	SB	splash block
BRZ	bronze	INT	interior	SPEC	specification (s)
CPT	carpet (ed)	JT	joint	SS	stainless steel
CPTT	carpet tiles	KIT	kitchen	ST	stain
CK	caulk (ing)	LAM	laminated (d)	STL	steel
CLG	ceiling	MTL	material (s)	STN	stone
CER	ceramic	MES	metal edge strip	STUC	stucco
CT	ceramic tile	MET	metal	SYM	symmetry (ical)
C	concrete	MISC	miscellaneous	SYN	synthetic
CBLK	concrete block	MR	moisture resistant	TZ	terrazzo
CMU	concrete masonry unit	NIC	not in contract	THK	thick (ness)
CONT	continuous or continue	NTS	not to scale	THR	threshold
DS	downspout	O	oil	T&G	tongue & groove
DTL	detail	OC	on center (s)	TXP	textured paint
DWG	drawing	OPP	opposite	TYP	typical
DF	drinking fountain	OH	overhead	UNF	unfinished
ELEC	electric (al)	P	paint (ed)	UR	urethane
EP	epoxy paint	PNL	paneling	VAT	vinyl asbestos tile
EPUR	epoxy urethane paint	PBD	particle board	VIN	vinyl
EQ	equal	PVMT	pavement	VCT	vinyl composite tile
EWH	electric water heater	PGBD	pegboard	VWC	vinyl wall covering
EXP	exposed	PL	plaster	W&CT	wainscot
EXT	exterior	PLAS	plastic	WRGB	water-resistant gyp bd
FIN	finish (ed)	FLAM	plastic laminate	W	wax
FLR	floor (ing)	PWD	plywood	WIN	window
FBO	furnished by others	QT	quarry tile	WG	wired glass
GA	gauge			WD	wood
GALV	galvanized				
GL	glass, glazing				

GRAPHIC SYMBOLS

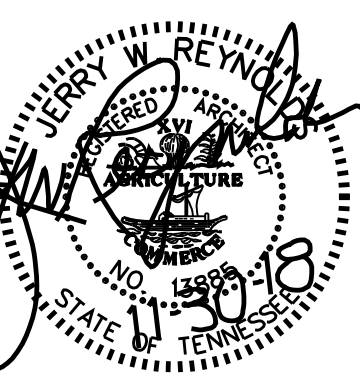
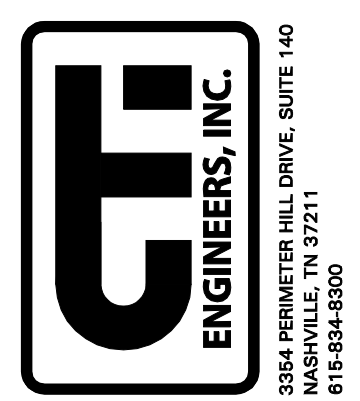
	DOOR NUMBER		SECTION NUMBER
	WINDOW NUMBER		SECTION REFERENCE
	ROOM AND SPACE NUMBER		SHEET NUMBER WHERE DRAWN
	TOILET ACCESSORIES		DETAIL NUMBER
	EQUIPMENT		DETAIL REFERENCE
	REVISIONS		SHEET NUMBER WHERE DRAWN
	WALL TYPE		ELEVATION NUMBER
	REFERENCE GRID		INTERIOR ELEVATION INDICATOR
	EARTH		SHEET NUMBER WHERE DRAWN
	STONE FILL		DETAIL NUMBERS
	CONCRETE		WALL TYPES
	CONCRETE BLOCK		SHEET NUMBER WHERE DRAWN
	BRICK		
	ROUGH WOOD		
	FINISH WOOD		
	PLYWOOD		
	STEEL (LARGE SCALE)		
	STEEL (SMALL SCALE)		
	BATT OR BLOWN-IN INSULATION		
	RIGID INSULATION		
	GYPSUM BOARD		
	ACOUSTICAL TILE		
	MARBLE		

NO.	DATE	BY	APP'D	REVISIONS	
				DESCRIPTIONS	

DESIGN: JR, DRAWN: JR, CHECKED: NH, APPROVED: NH

WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

ARCHITECTURAL - INFORMATION



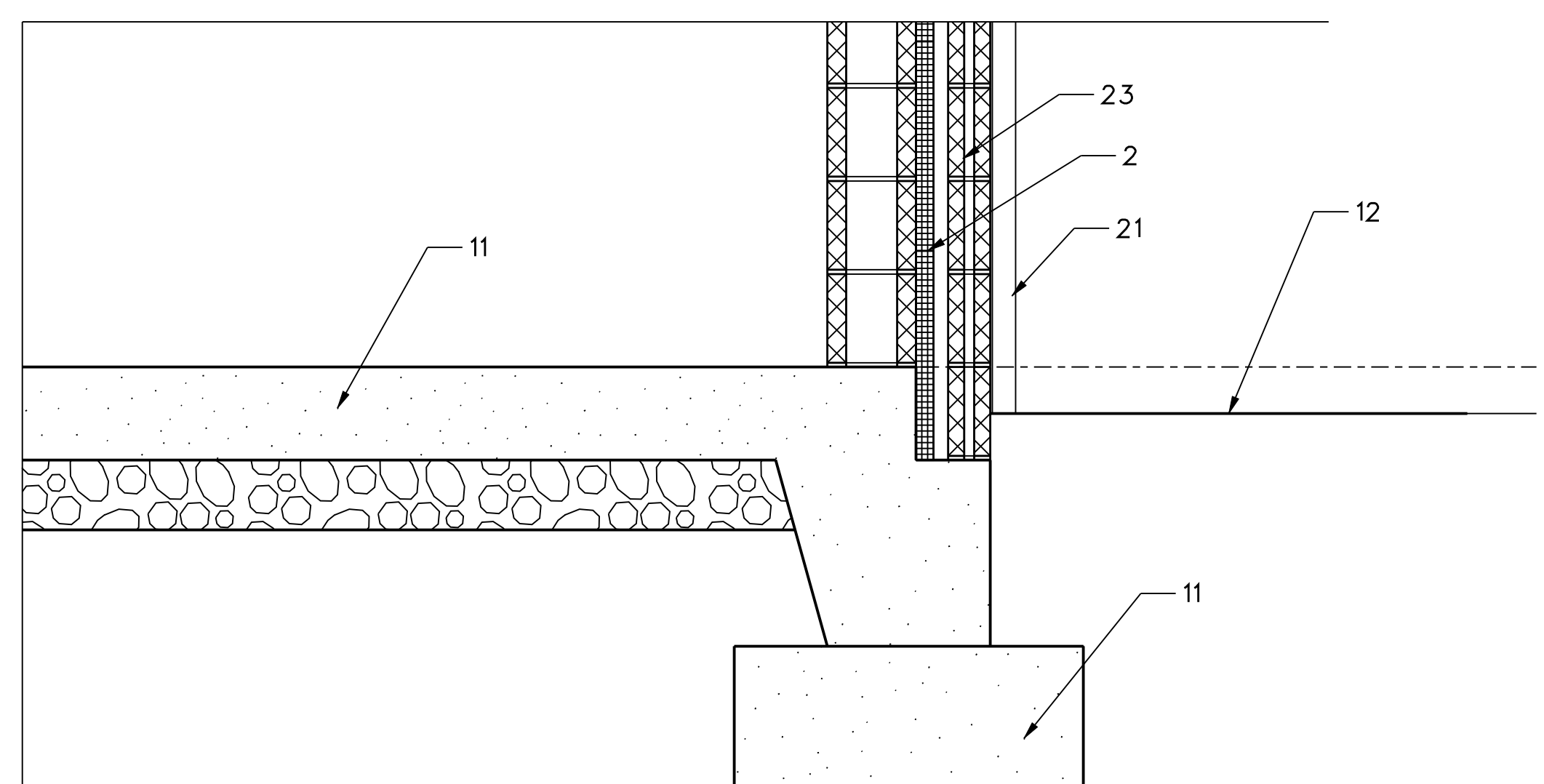
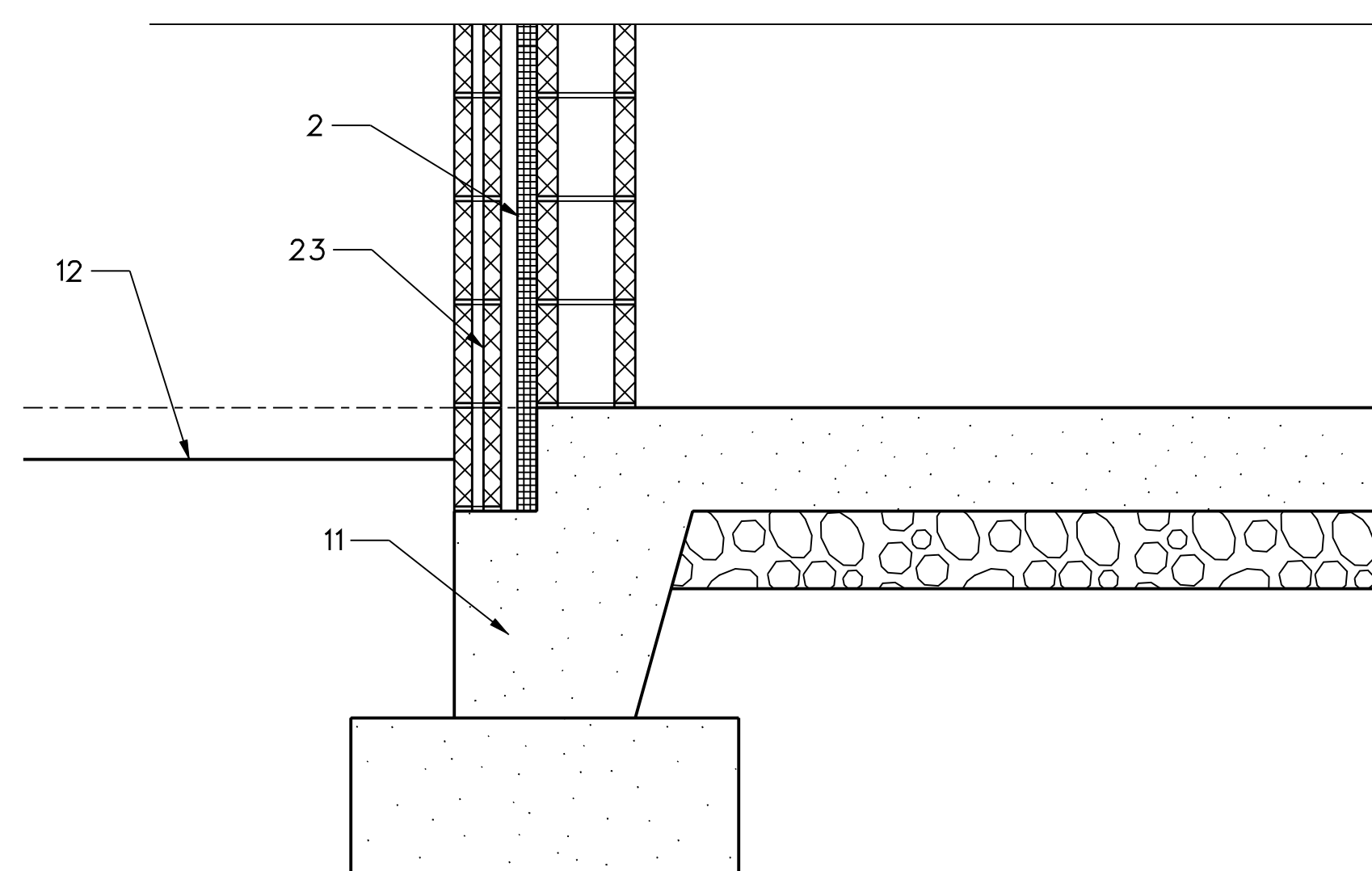
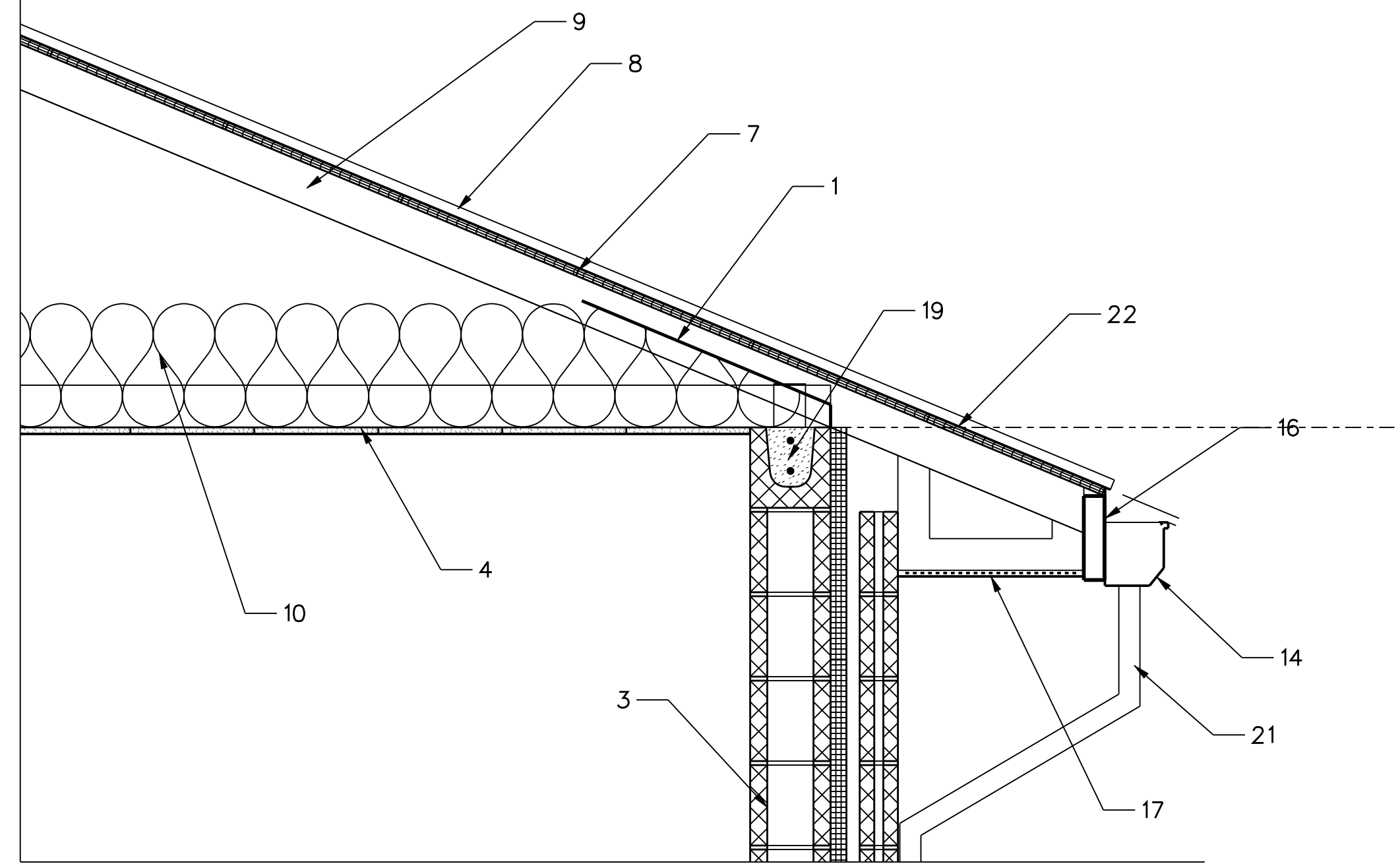
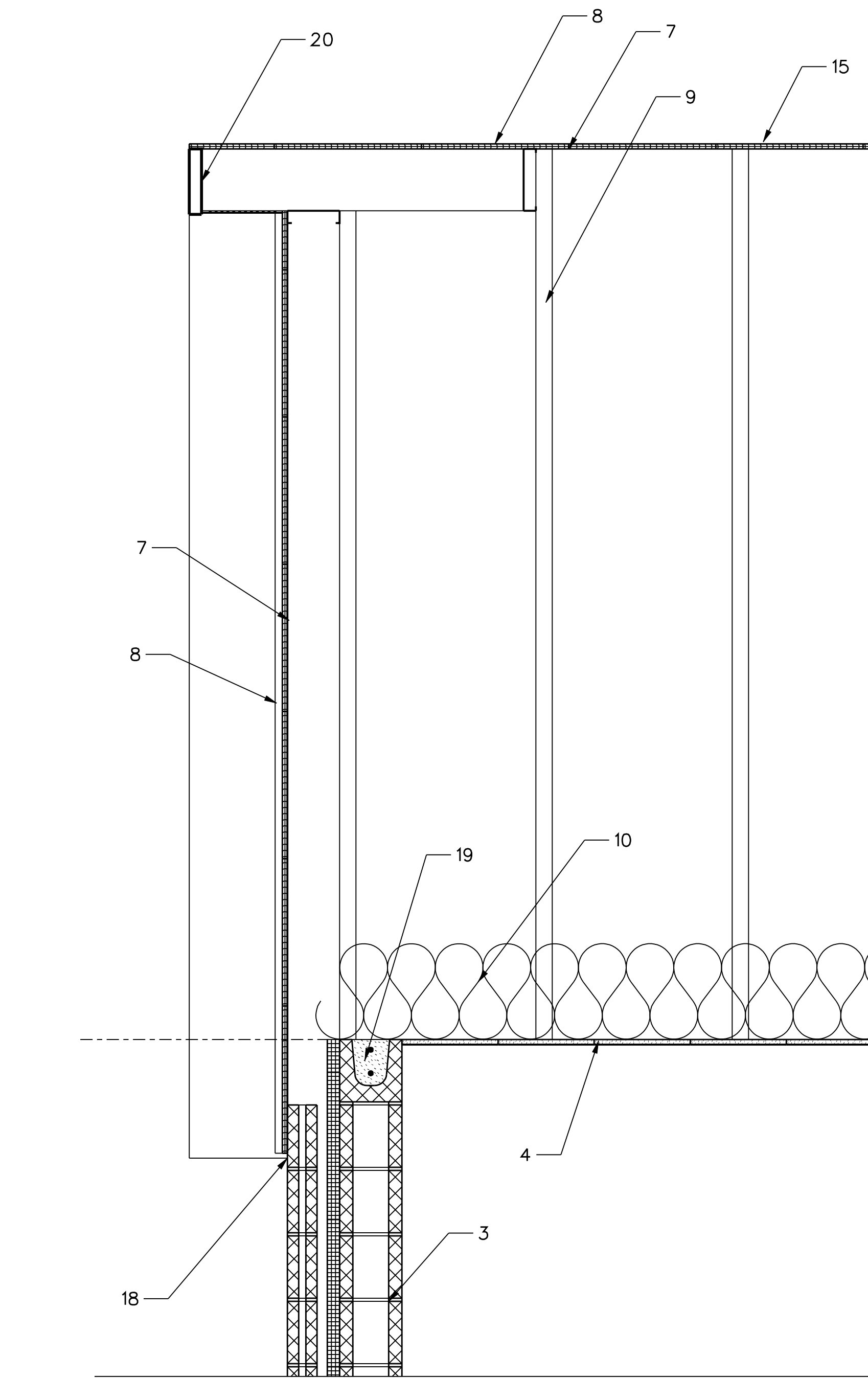
Jerry W. Reynolds
 architect

904 WEST CYNTHIA TRAIL
 GOODLETTSVILLE, TN 37072-3517
 PHONE (615) 855 - 0406

JOB NO. N16003
 ISSUE DATE November 30, 2018
 SCALE NTS
 DRAWING NO. A-001

DRAWING NOTES

1. INSULATION BAFFLE, 2" CLEAR.
2. 1/2" CAVITY INSULATION.
3. CONCRETE MASONRY UNIT (CMU) WALL.
4. 5/8" WATER RESISTANT GYPSUM BOARD.
5. OVERHEAD COILING DOOR.
6. HOLLOW METAL DOOR AND FRAME.
7. 3/4" PLYWOOD GABLE AND ROOF SHEATHING.
8. PREFINISHED STANDING SEAM METAL ROOF.
9. LIGHTGAGE METAL PRE-ENGINEERED TRUSSES/FRAMING.
10. R-38 INSULATION.
11. SLAB AND FOUNDATION, SEE STRUCTURAL.
12. FINISH GRADE, SEE CIVIL.
13. ATTIC SPACE ACCESS DOOR.
14. PREFINISHED 6"X6" METAL GUTTER, MATCH EXISTING.
15. PREFINISHED CONTINUOUS RIDGE VENT.
16. PREFINISHED METAL FASCIA/DRIP.
17. PREFINISHED VENTILATING METAL SOFFIT.
18. BASE ANGLE WITH DRIP.
19. BOND BEAM/LINTEL, SEE STRUCTURAL.
20. 8" METAL CHANNEL STUD SECURED TO C-STUD FASCIA ASSY.
21. PREFINISHED METAL 2"X3" DOWNSPOUT, MATCH EXISTING.
22. ICE AND WATER SHIELD.
23. 4" NOMINAL CMU VENEER.



SECTION 1
A-002
0 1' 2'

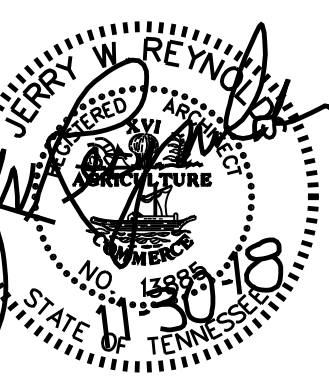
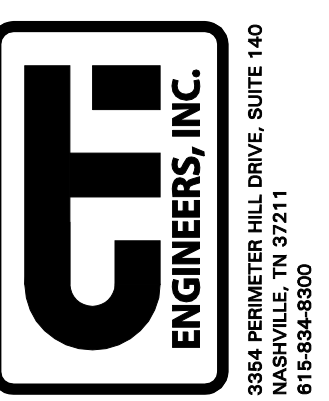
SECTION 2
A-002
0 1' 2'

NO.	REVISIONS DESCRIPTIONS	DATE	BY	APP'D

DESIGN	DRAWN	CHECKED	APPROVED
JR	JR	NH	NH

WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

ARCHITECTURAL - SECTIONS



JOB NO.
N16003

ISSUE DATE
November 30, 2018

SCALE
1" = 1'-0"

DRAWING NO.
A-002

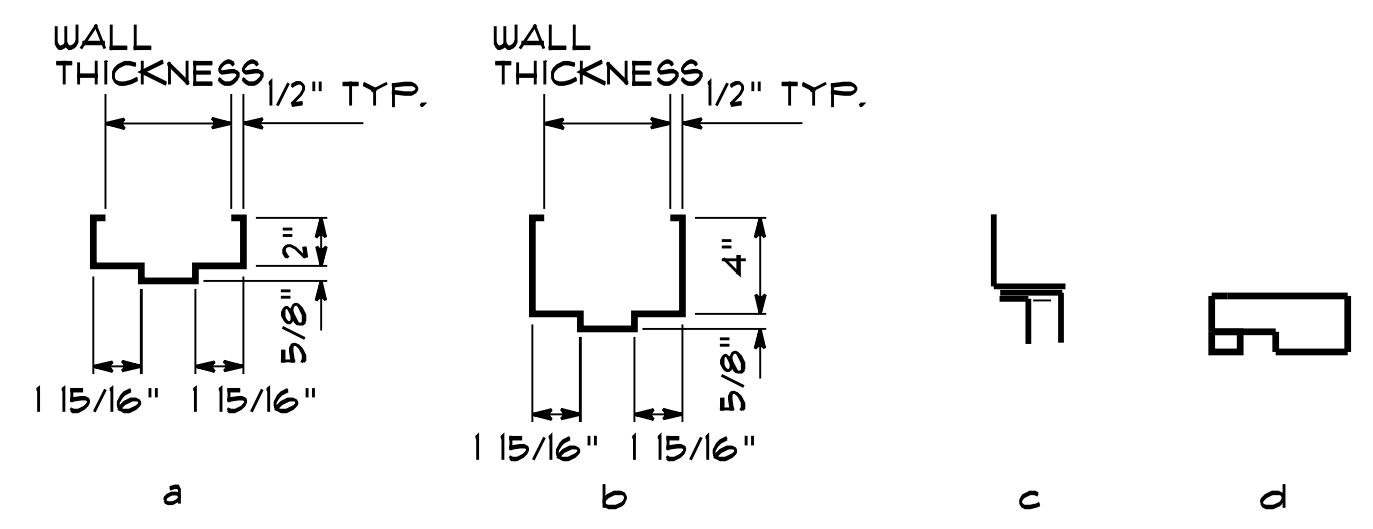
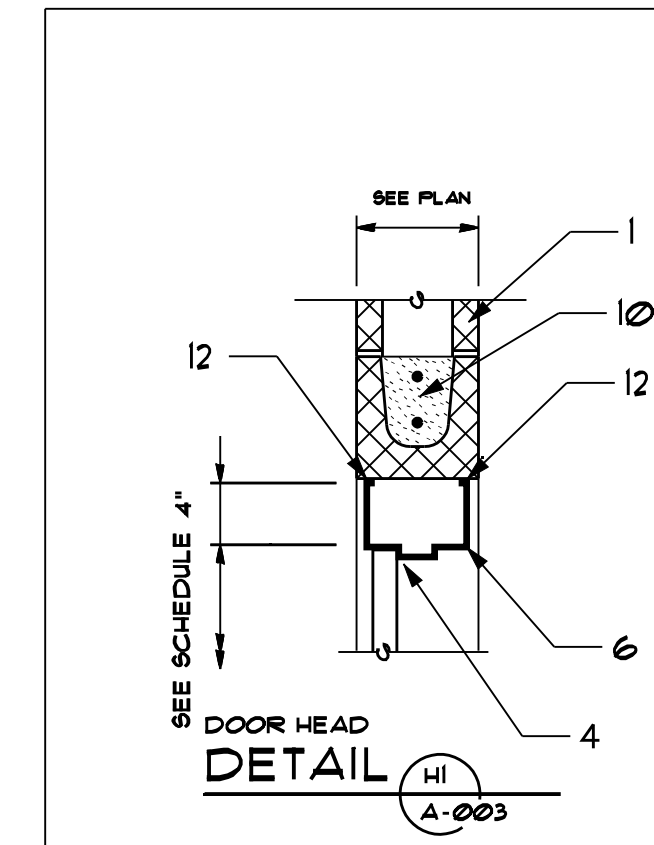
Jerry W. Reynolds
 architect
 904 WEST CYNTHIA TRAIL
 GOODLETTSVILLE, TN 37072-3517
 PHONE (615) 855 - 0406

DOOR AND OPENING SCHEDULE

NO.	DOOR/OPENING					FRAME			U.L. LABEL	HDW. GROUP	KEY GROUP	DETAILS			SIGNAGE	COMMENTS	REM. NO.
	WIDTH	HT.	THK.	TYPE	MTL.	SEC.	TYPE	MTL.				HEAD	JAMB	THR			
300-01A	3'-0"	7'-0"	1 3/4"	G	HM	a/b	1	HM				H2/A-003	J2/A-003				
300-02A	3'-0"	7'-0"	1 3/4"	G	HM	a/b	1	HM				H2/A-003	J2/A-003				
900-01A	3'-0"	7'-0"	1 3/4"	G	HM	a/b	1	HM				H2/A-003	J2/A-003				
900-01B	8'-0"	8'-0"	2"	OH	ST	c	3	ST				H3/A-003	J3/A-003				
900-02A	6'-0"	7'-0"	1 3/4"	FF	HM	a/b	2	HM				H2/A-003	J2/A-003				
900-02B	3'-0"	7'-0"	1 3/4"	F	HM	a/b	1	HM				H1/A-003	J1/A-003				
900-03A	3'-0"	7'-0"	1 3/4"	G	HM	a/b	1	HM				H2/A-003	J2/A-003				
900-04A	3'-0"	7'-0"	1 3/4"	F	HM	a/b	1	HM				H1/A-003	J1/A-003				
1200-01A	3'-0"	7'-0"	1 3/4"	G	HM	a/b	1	HM				H2/A-003	J2/A-003				
1200-01B	3'-0"	7'-0"	1 3/4"	F	HM	a/b	1	HM				H1/A-003	J1/A-003				
1200-02A	3'-0"	7'-0"	1 3/4"	G	HM	a/b	1	HM				H2/A-003	J2/A-003				
INT WIN	3'-4"	4'-0"			HM	a	4	HM				H4/A-003	J4/A-003				
EXT WIN	3'-4"	4'-0"				d	5	AL				H5/A-003	J5/A-003				

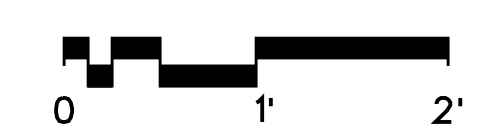
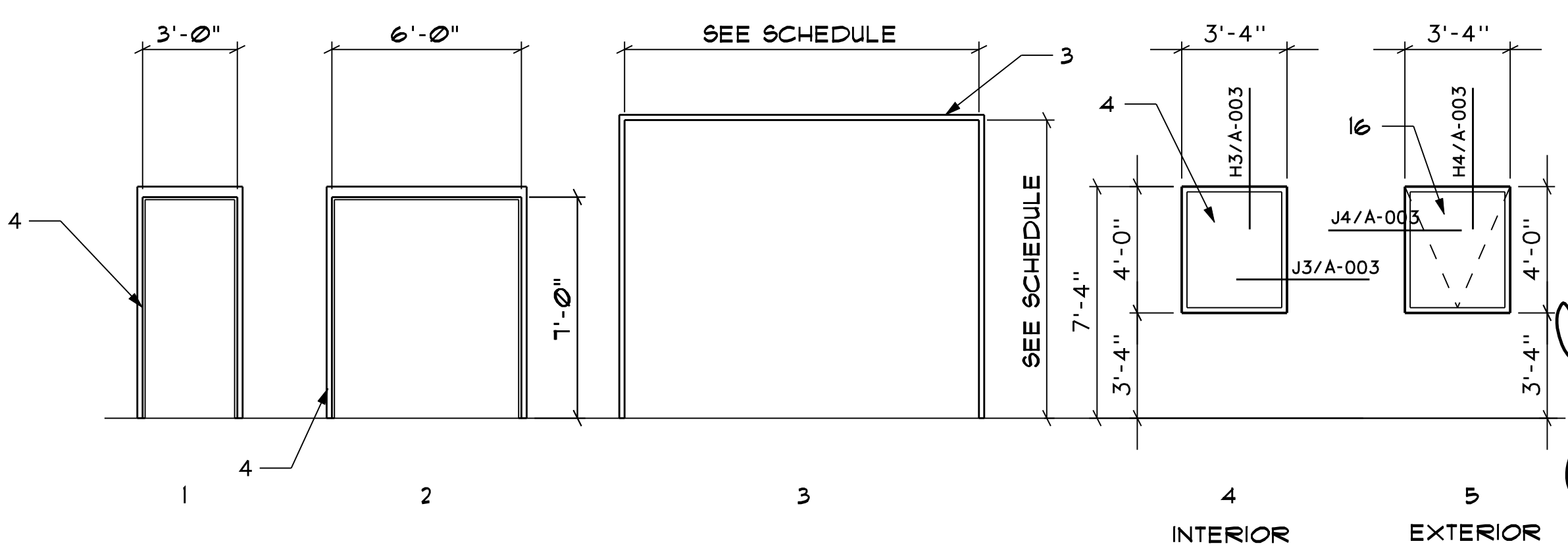
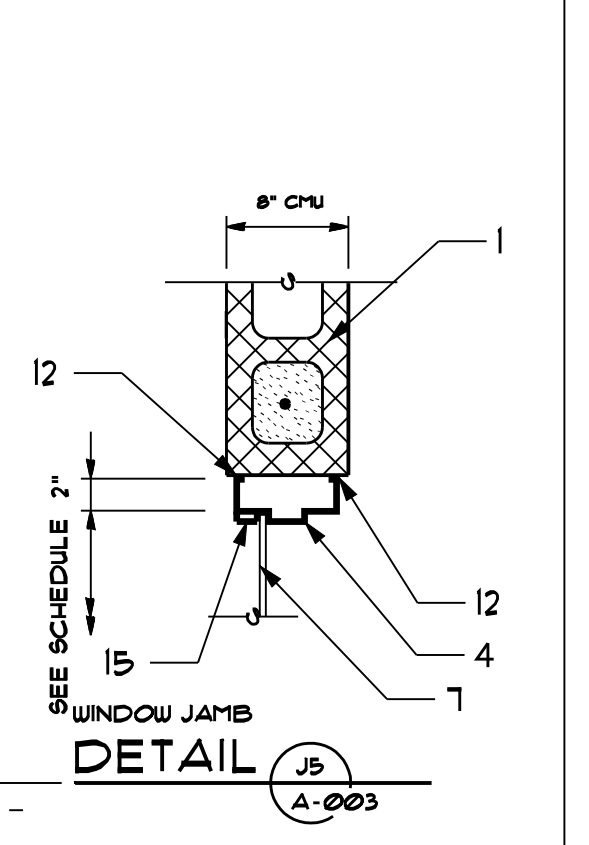
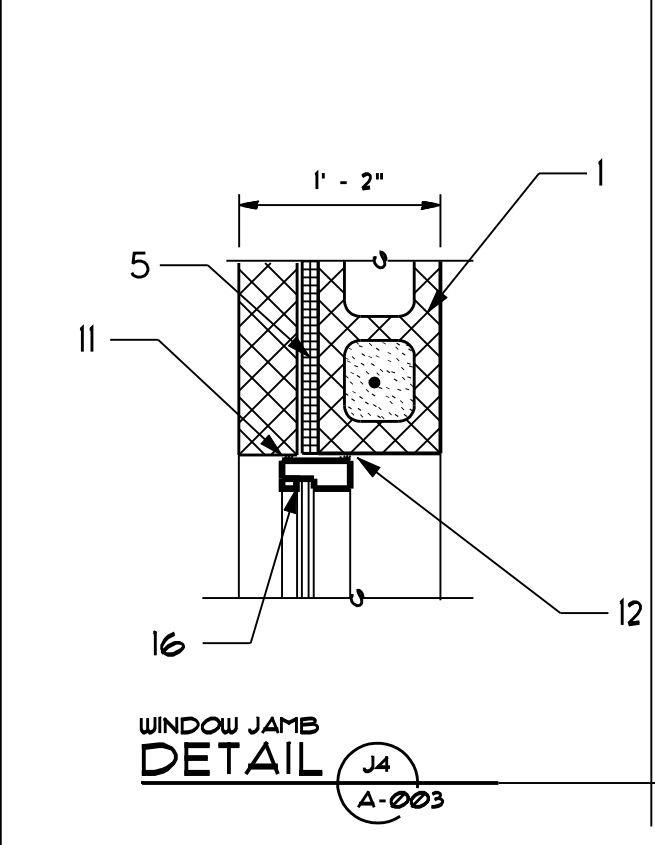
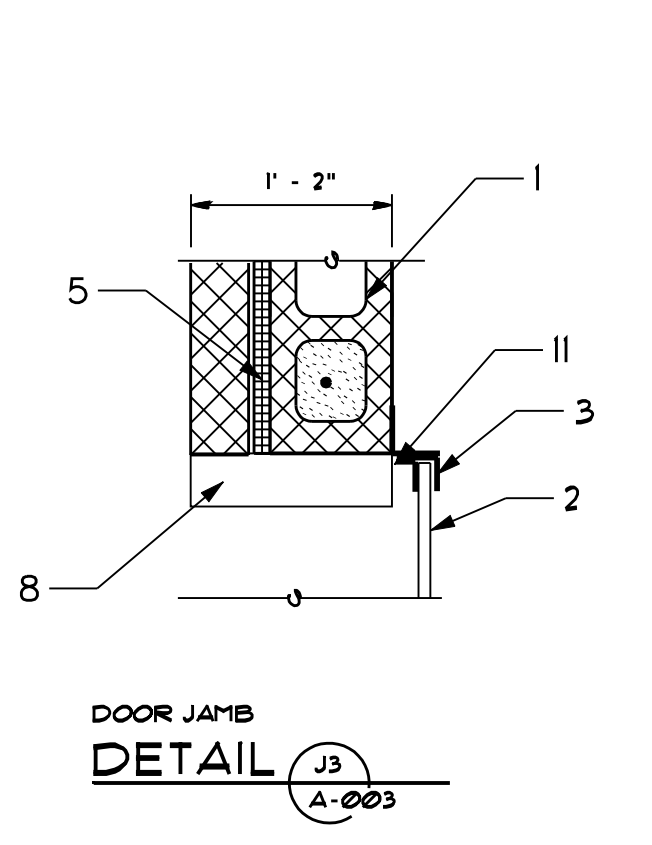
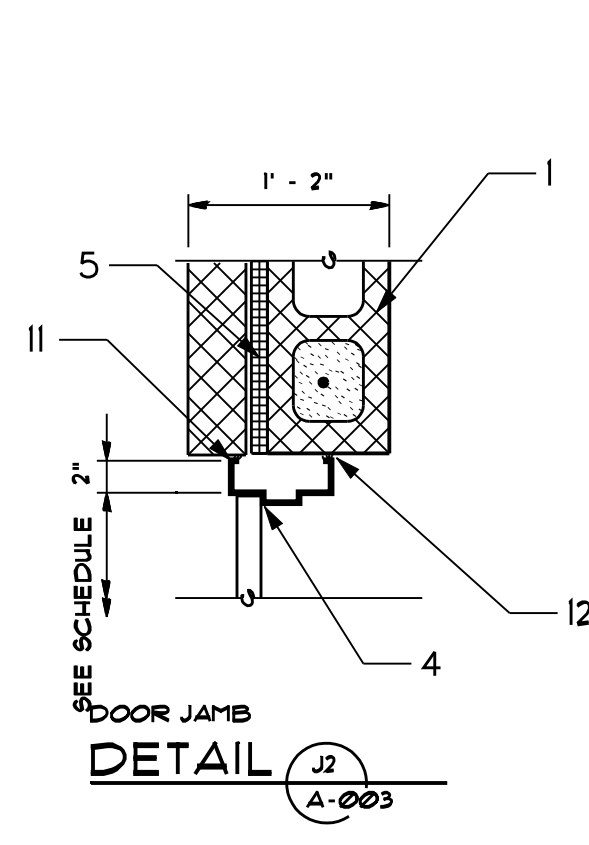
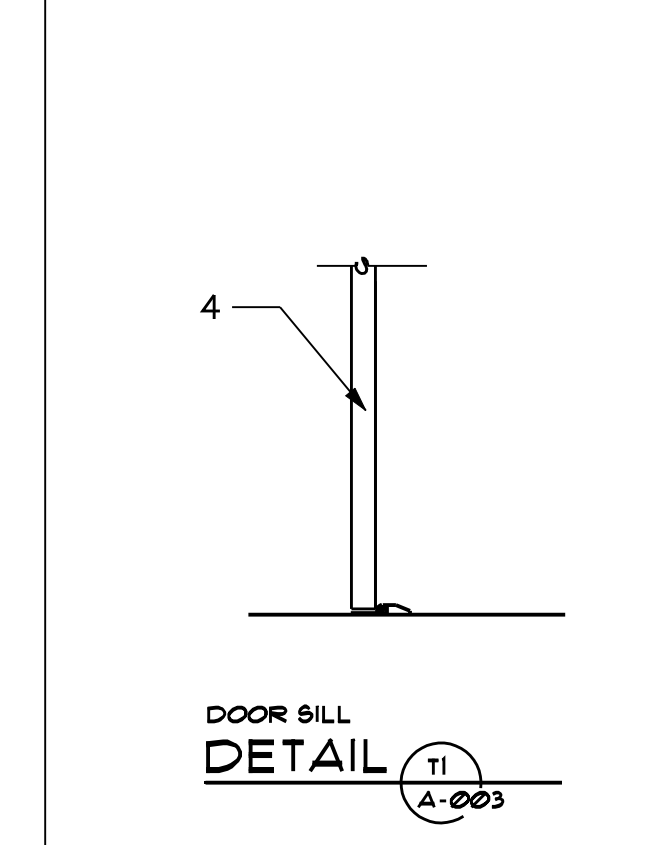
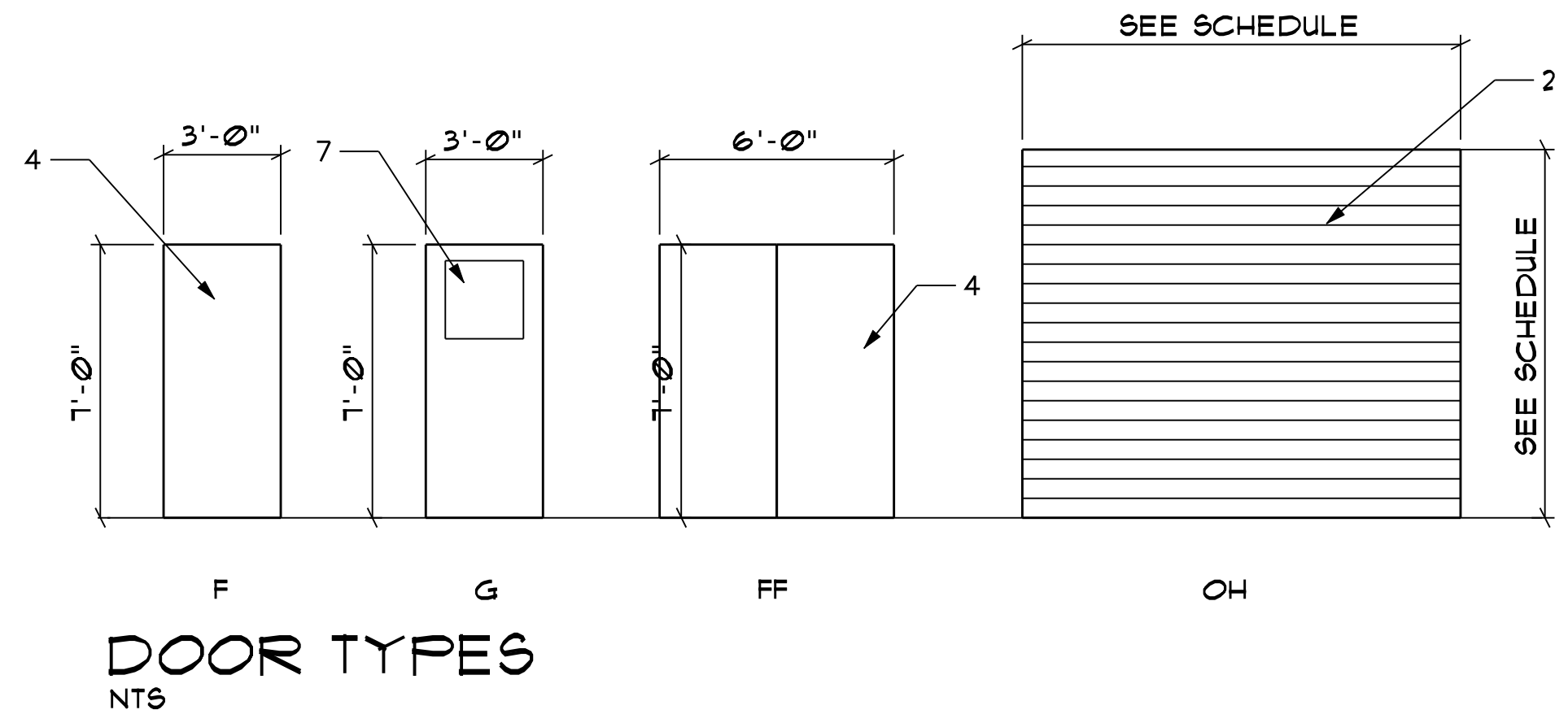
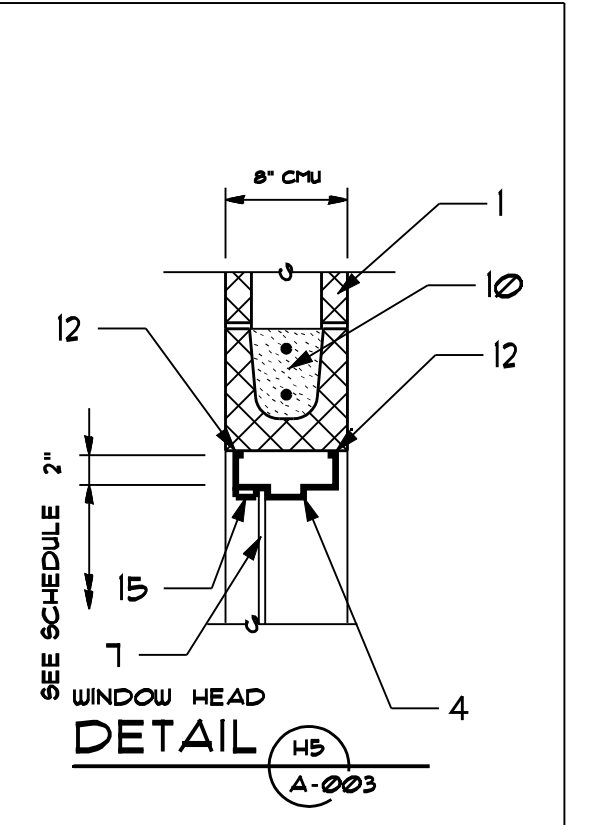
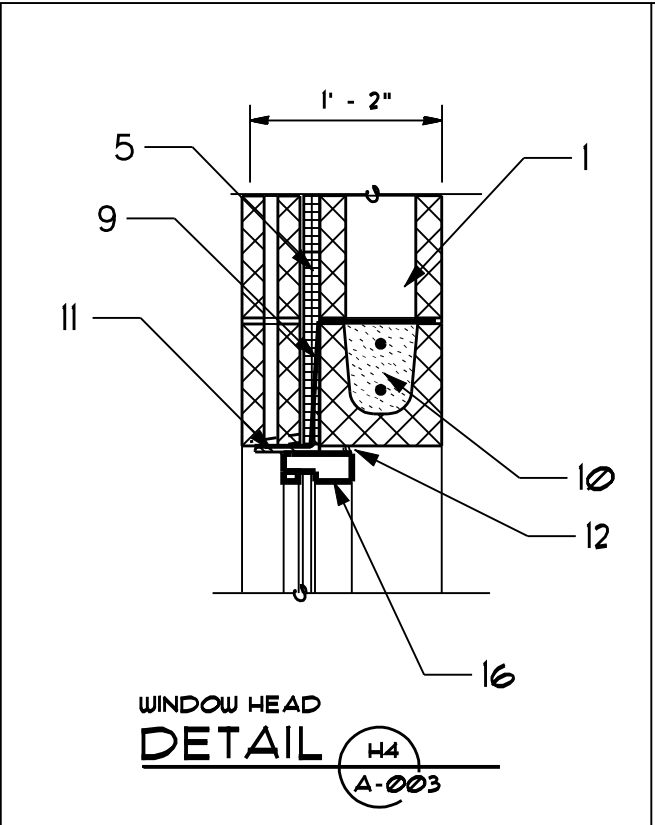
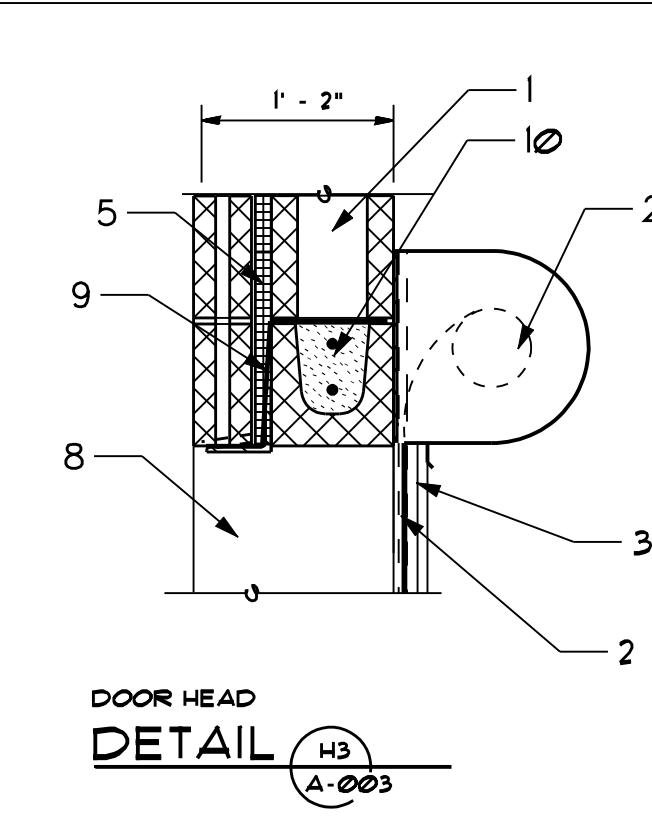
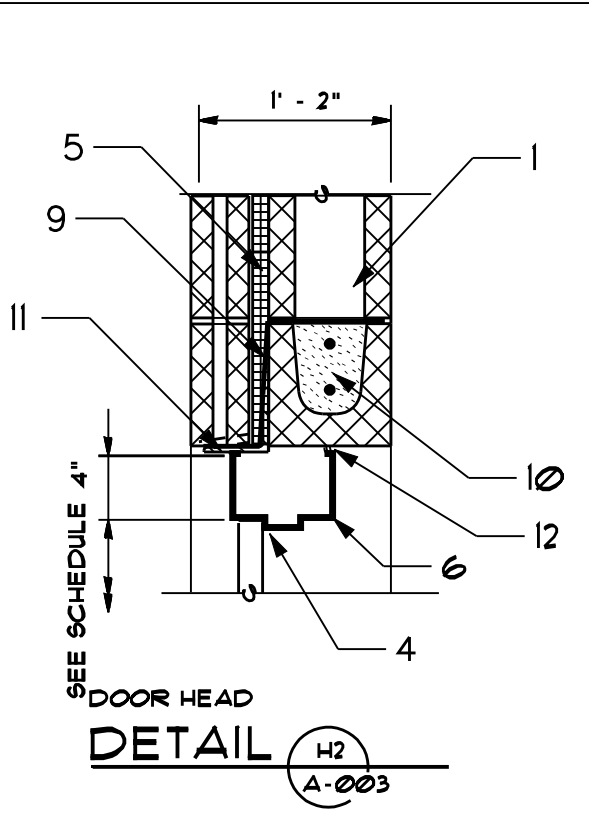
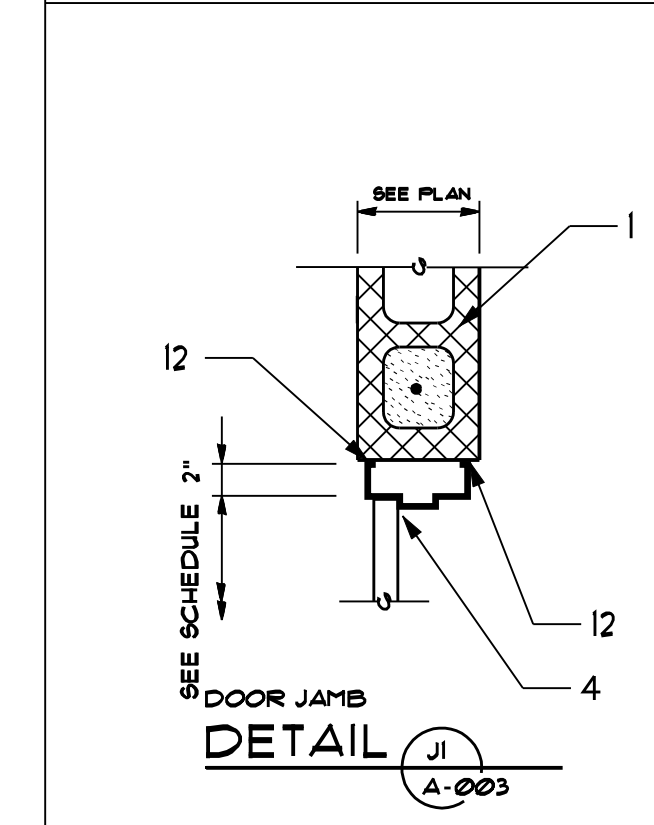
DRAWING NOTES

1. CMU WALLS, SEE PLANS FOR WALL INFORMATION.
2. OVERHEAD COILING INSULATED DOOR.
3. OVERHEAD COILING INSULATED DOOR FRAME.
4. HOLLOW METAL DOOR / WINDOW FRAME.
5. INSULATION.
6. 4" HEAD.
7. 1/4" CLEAR TEMPERED GLASS.
8. PRECAST JAMB, MATCH EXISTING.
9. THRU WALL FLASHING.
10. CMU LINTEL, SEE STRUCTURAL.
11. SEALANT.
12. CAULK.
13. HOLLOW METAL WINDOW FRAME, PAINTED WITH SOLID BAR JAMB.
14. 1" CLEAR INSULATING GLASS.
15. SOLID BAR JAMB ATTACHED WITH SS SCREWS.
16. ALUMINUM WINDOW WITH INSULATING GLASS.



MATERIAL AND FINISH SCHEDULE

NO.	ROOM	FLOOR		BASE		N WALL		E WALL		S WALL		W WALL		CEILING		DOOR	TRIM	REM. NO.
		MTL.	FIN.	MTL.	FIN.	MTL.	FIN.	MTL.	FIN.	MTL.	FIN.	MTL.	FIN.	HT.				
300-01	ELECTRICAL	C	P			CMU	P	CMU	P	CMU	P	CMU	P	GPBD	P	10'-0"	P	P
300-02	PUMPS	C	P			CMU	P	CMU	P	CMU	P	CMU	P	GPBD	P	10'-0"	P	P
900-01	BLOWER ROOM	C	P			CMU	P	CMU	P	CMU	P	CMU	P	GPBD	P	10'-0"	P	P
900-02	ELECTRICAL	C	P			CMU	P	CMU	P	CMU	P	CMU	P	GPBD	P	10'-0"	P	P
900-03	HALL	C	P			CMU	P	CMU	P	CMU	P	CMU	P	GPBD	P	10'-0"	P	P
900-04	UNDESIGNATED	C	P			CMU	P	CMU	P	CMU	P	CMU	P	GPBD	P	10'-0"	P	P
1200-01	ELECTRICAL	C	P			CMU	P	CMU	P	CMU	P	CMU	P	GPBD	P	12'-0"	P	P
1200-02	PUMPS	C	P			CMU	P	CMU	P	CMU	P	CMU	P	GPBD	P	12'-0"	P	P



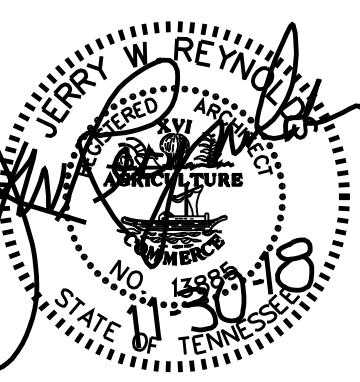
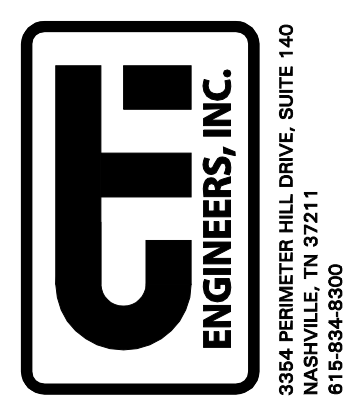
REVISIONS

NO.	DATE	BY	APP'D	DESCRIPTIONS

DESIGN

JR	DRWN	JR	CHKD	APPRD

WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06
 ARCHITECTURAL - DOORS / FINISHES

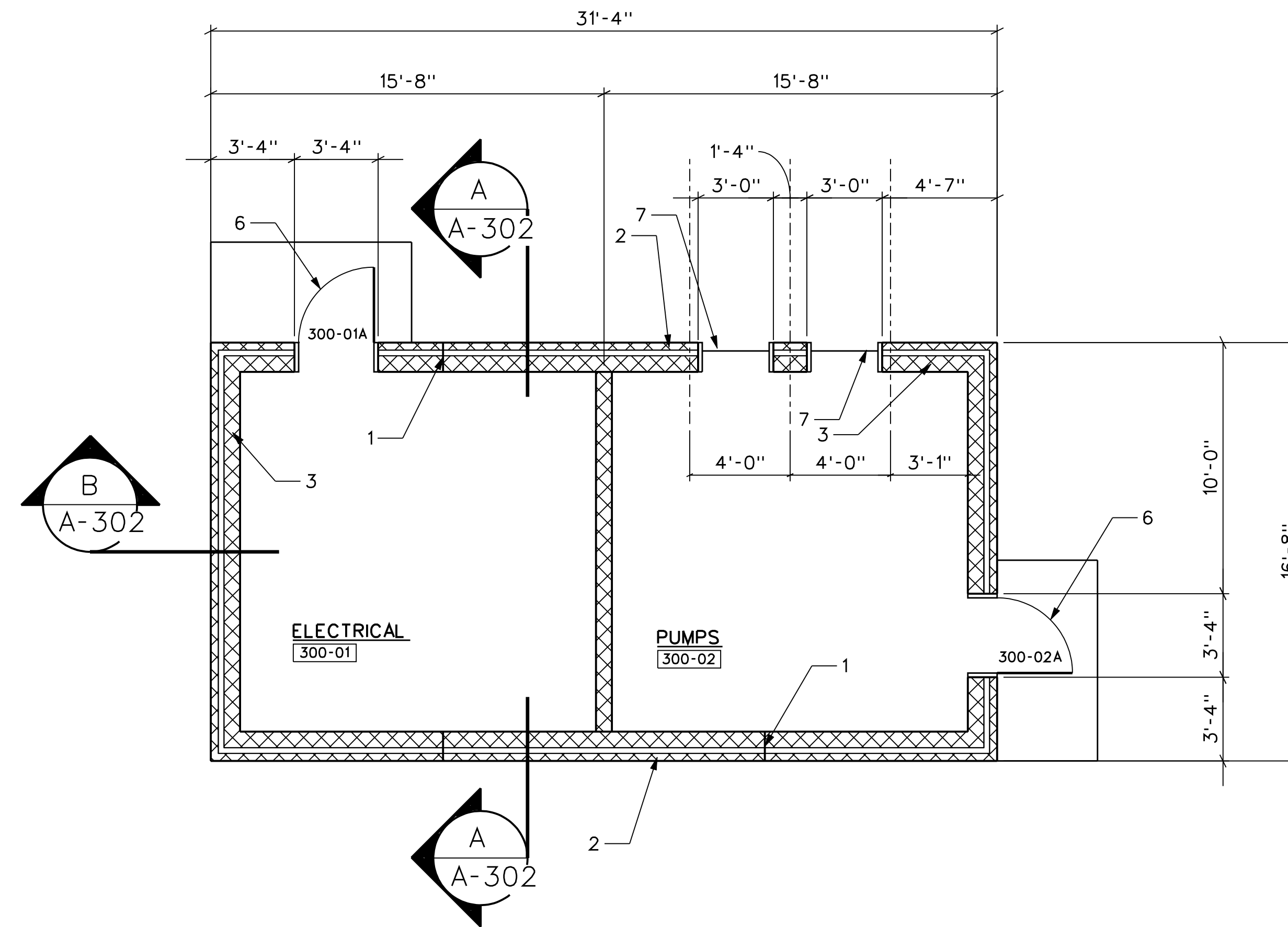


JOB NO. N16003
 ISSUE DATE November 30, 2018
 SCALE 1/4" = 1'-0"
 DRAWING NO. A-003

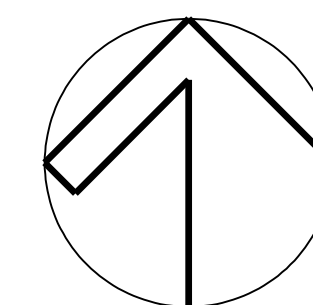
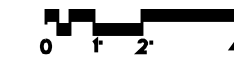
Jerry W. Reynolds
 architect
 904 WEST CYNTHIA TRAIL
 GOODLETTSVILLE, TN 37072-3517
 PHONE (615) 855 - 0406

DRAWING NOTES

1. MASONRY JOINT, SEE STRUCTURAL.
2. 4" NOMINAL CMU VENEER.
3. CONCRETE MASONRY UNIT (CMU) WALL.
4. BOLLARD, SEE CIVIL.
5. OVERHEAD COILING DOOR.
6. HOLLOW METAL DOOR AND FRAME.
7. ALUMINUM WINDOW.



FLOOR PLAN

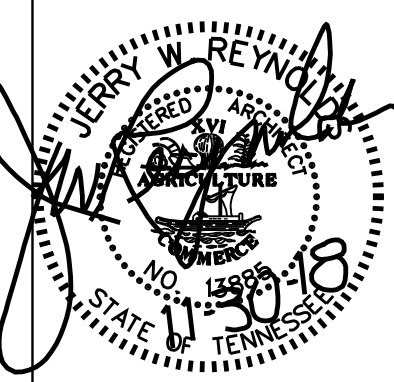
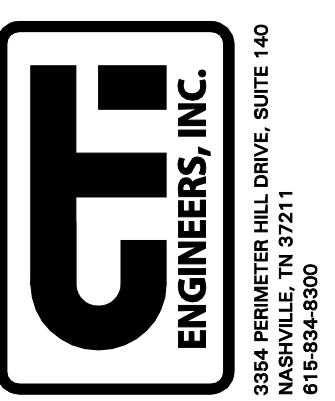


PLAN NORTH

REVISIONS		DATE	BY	APP'D
NO.	DESCRIPTIONS			

DESIGN	DRAWN	CHECKED	APPROVED
JR	JR	NH	NH

WASTEWATER TREATMENT PLANT EXPANSION
BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06
SBR INFLUENT PUMP STATION
FLOOR PLAN

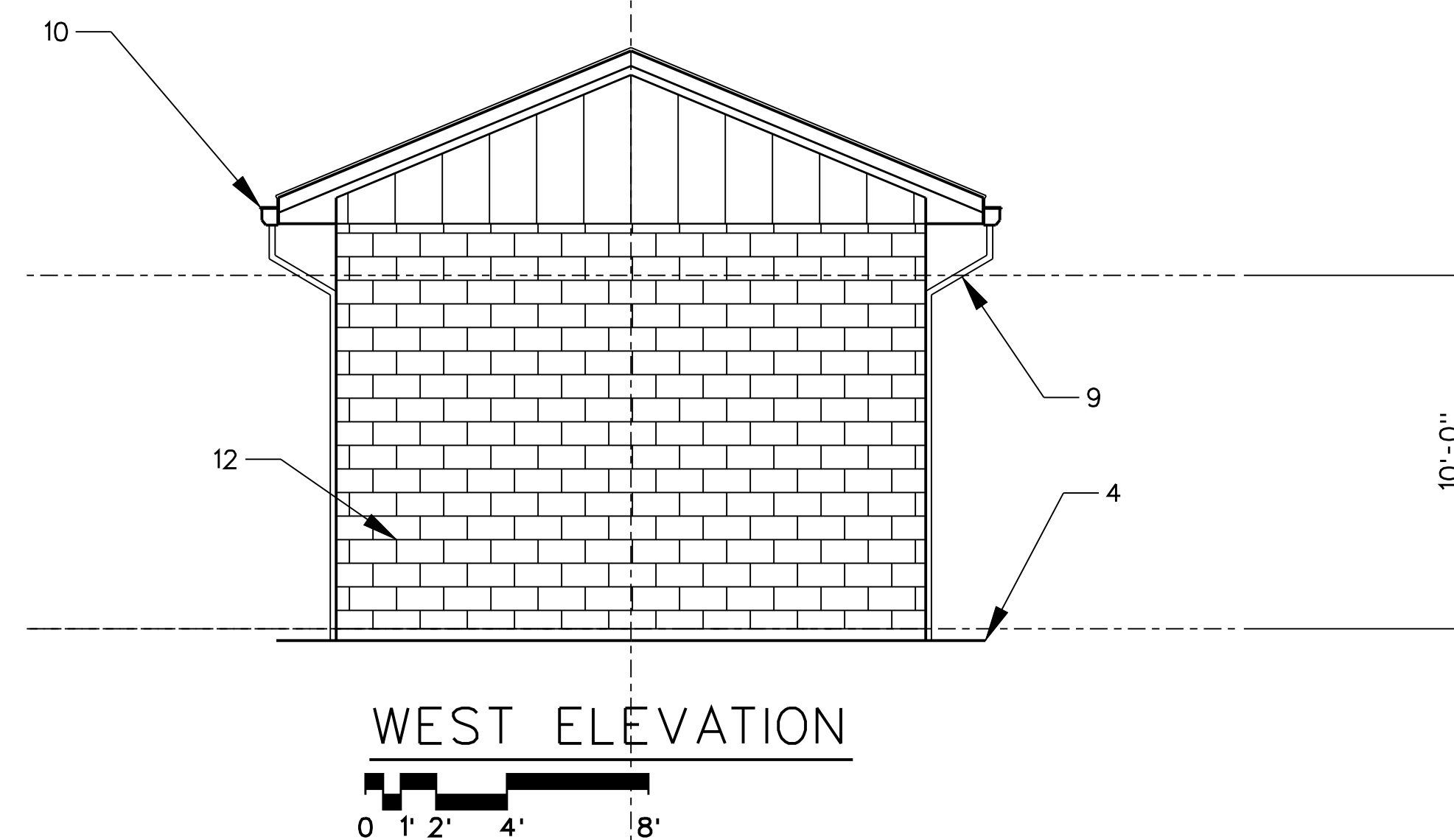
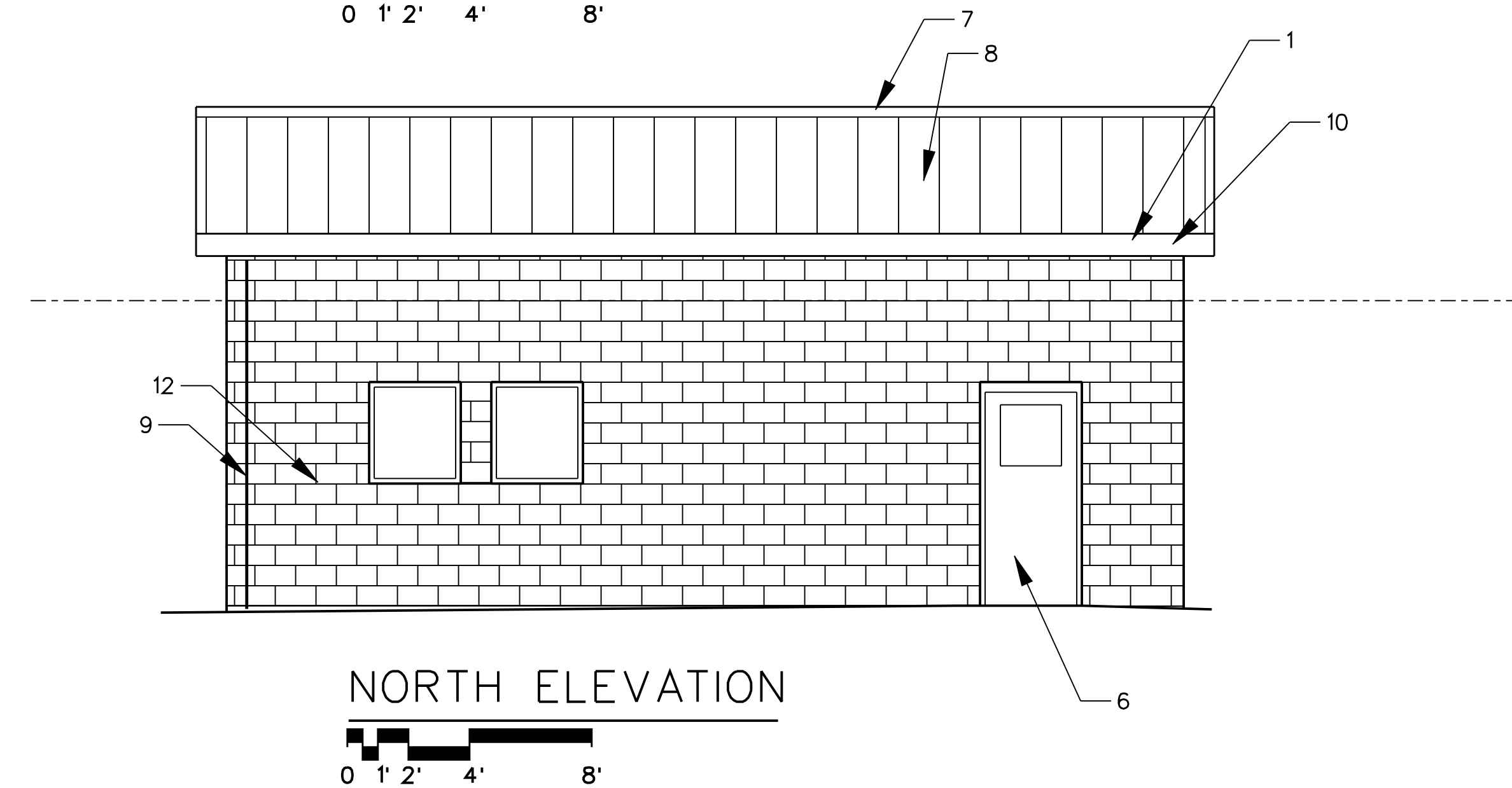
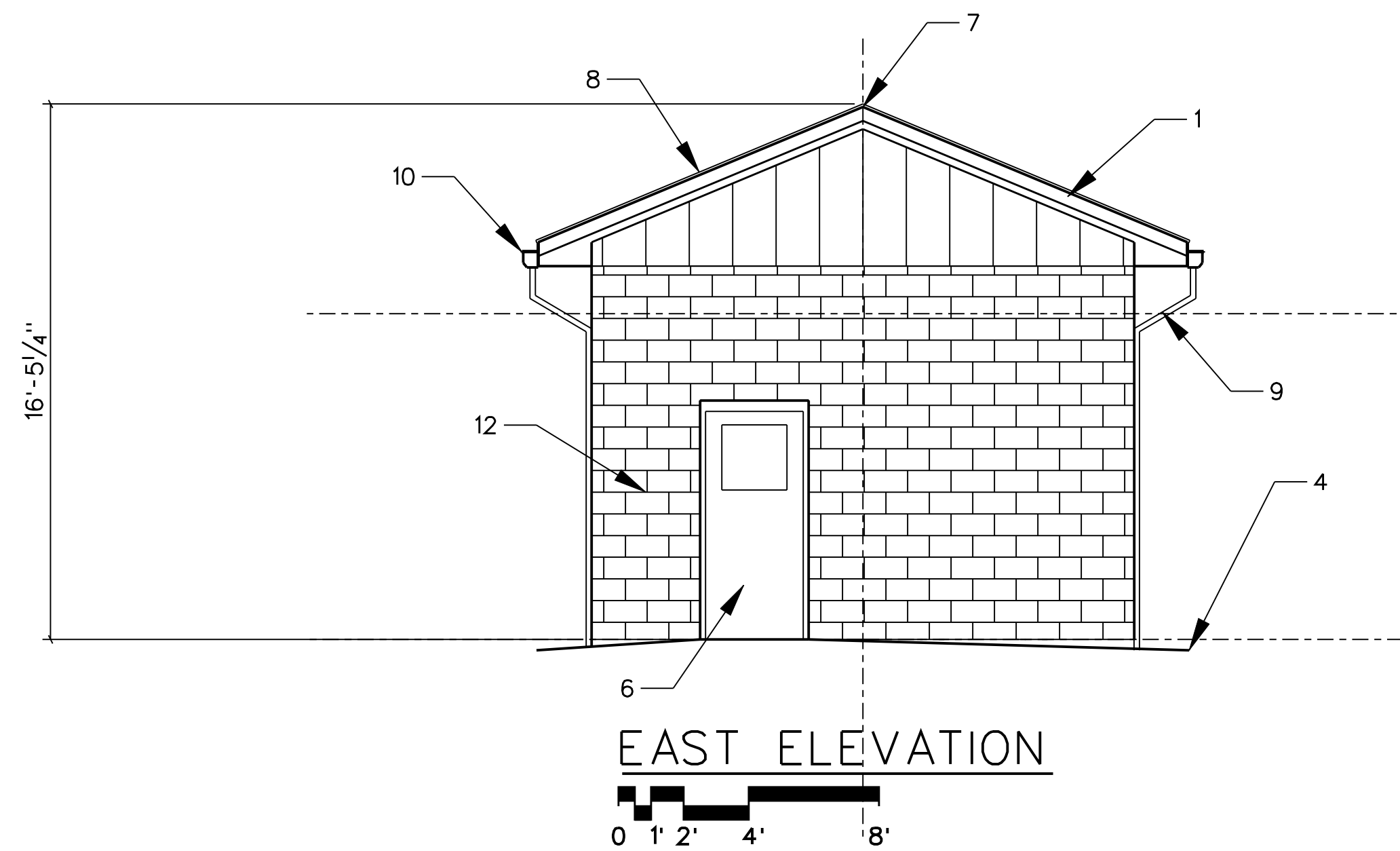
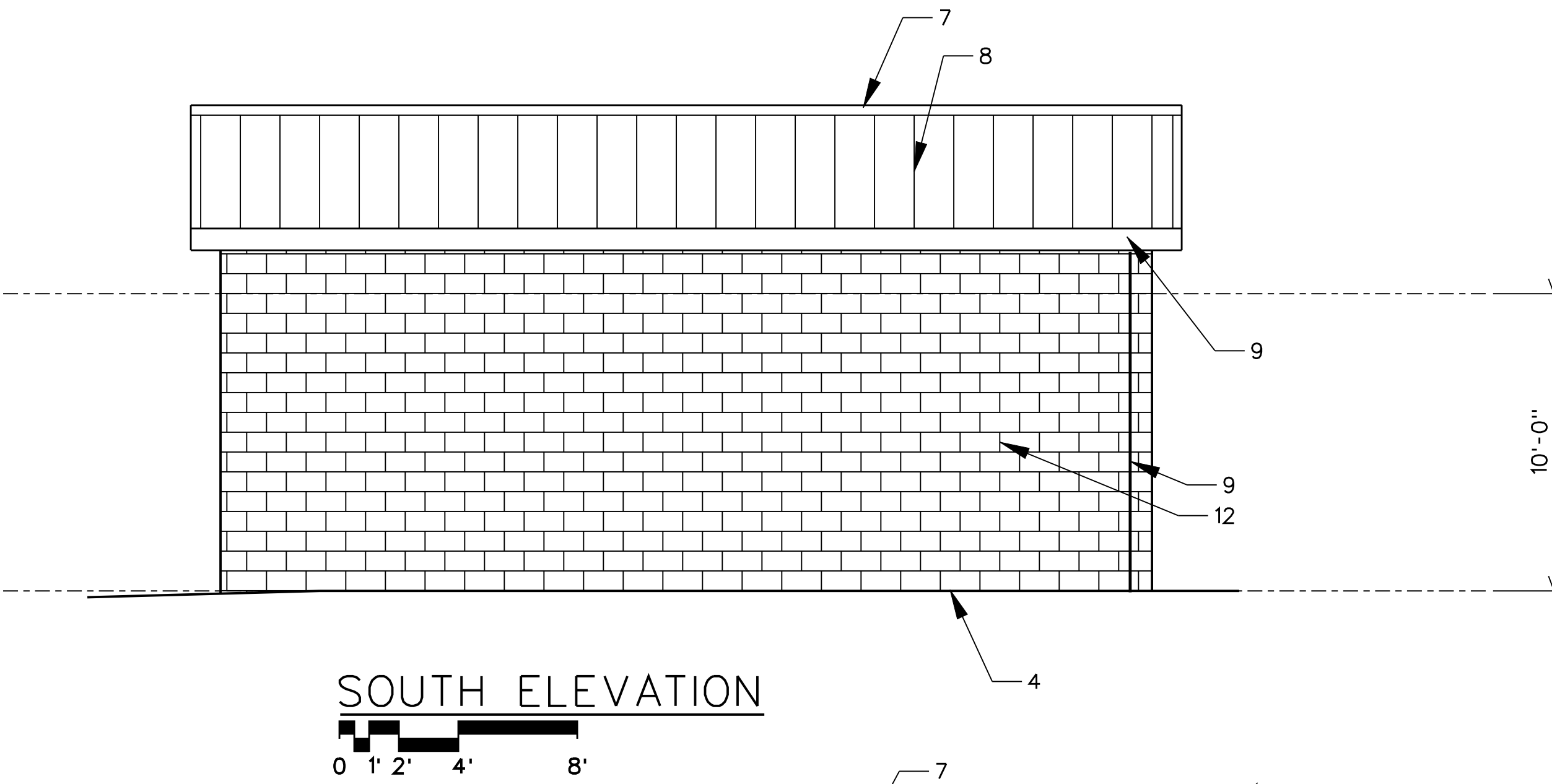
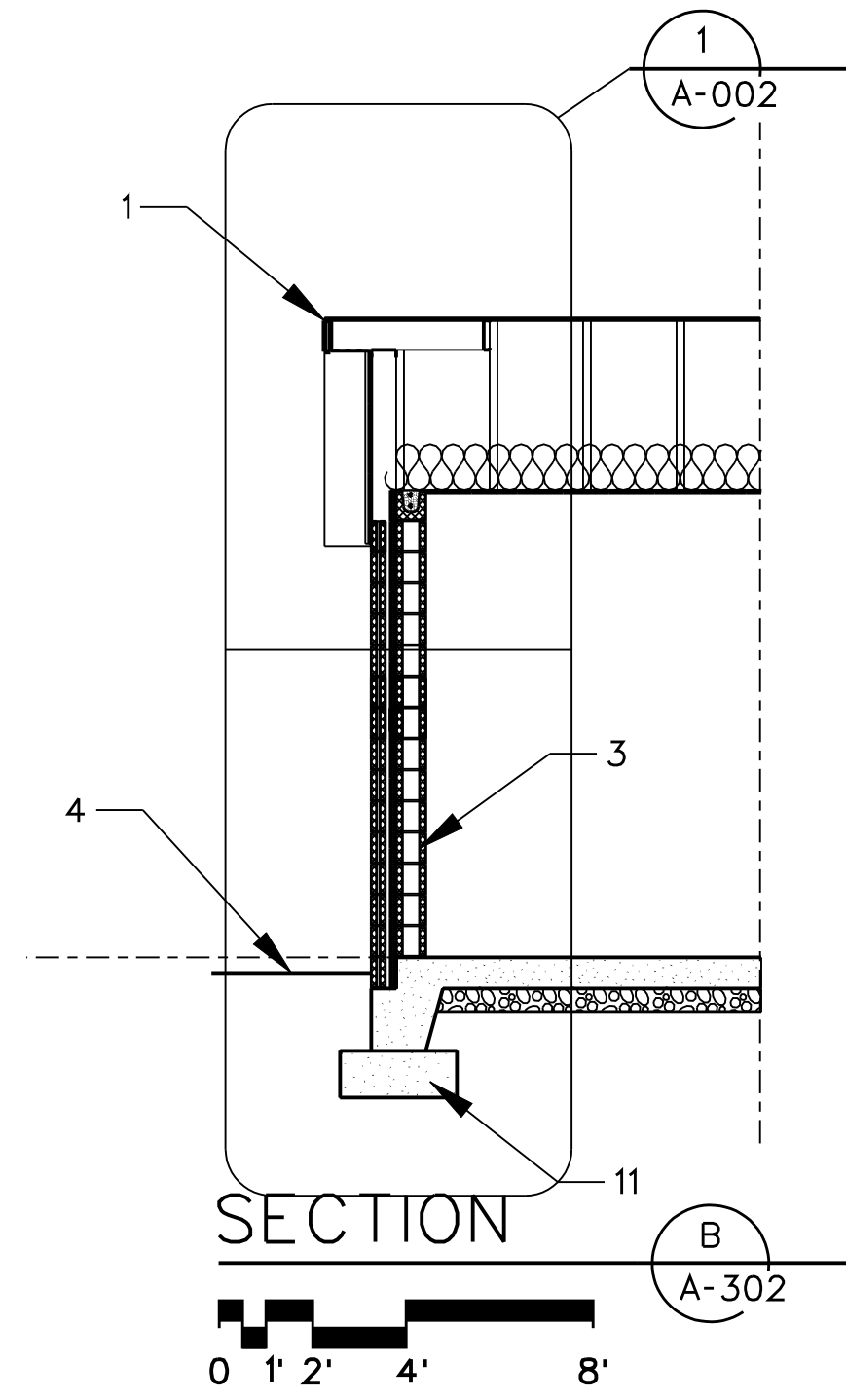
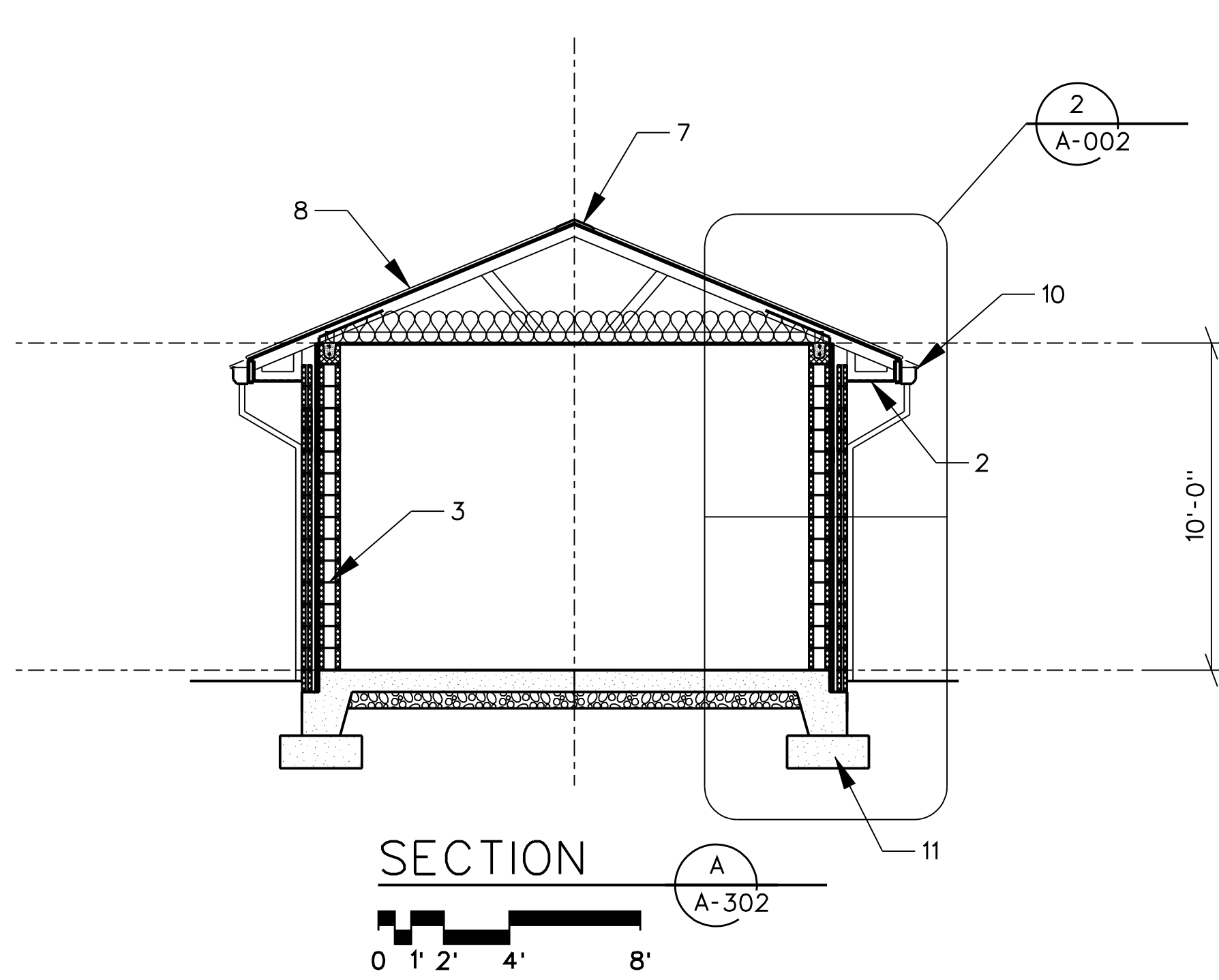


JOB NO.	N16003
ISSUE DATE	November 30, 2018
SCALE	1/4" = 1'-0"
DRAWING NO.	A-301

Jerry W. Reynolds
 architect
multidisciplinary planning services design
 904 WEST CYNTHIA TRAIL
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 PHONE (615) 855 - 0406

DRAWING NOTES

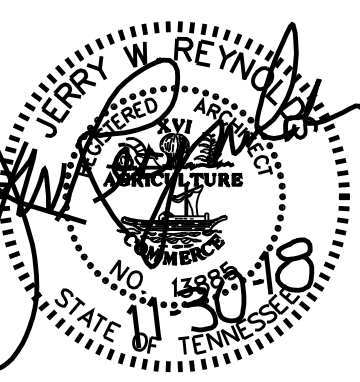
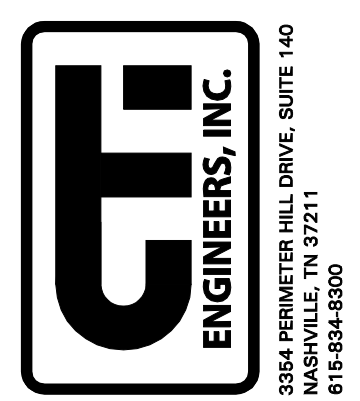
1. PREFINISHED METAL FASCIA/DRIP.
2. PREFINISHED VENTILATING METAL SOFFIT.
3. CONCRETE MASONRY UNIT (CMU) WALL.
4. FINISH GRADE, SEE CIVIL.
5. OVERHEAD COILING DOOR.
6. HOLLOW METAL DOOR AND FRAME.
7. PREFINISHED CONTINUOUS RIDGE VENT.
8. PREFINISHED STANDING SEAM METAL ROOF.
9. PREFINISHED METAL 2"X3" DOWNSPOUT, MATCH EXISTING.
10. PREFINISHED 6"X6" METAL GUTTER, MATCH EXISTING.
11. SLAB AND FOUNDATION, SEE STRUCTURAL.
12. 4" NOMINAL CMU VENEER.



NO.	REVISIONS		DATE	BY	APP'D
	DESCRIPTIONS				

DESIGN: JR
 DRAWN: JR
 CHECKED: NH
 APPROVED: NH

WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06
 SBR INFLUENT PUMP STATION
 ELEVATIONS AND SECTIONS

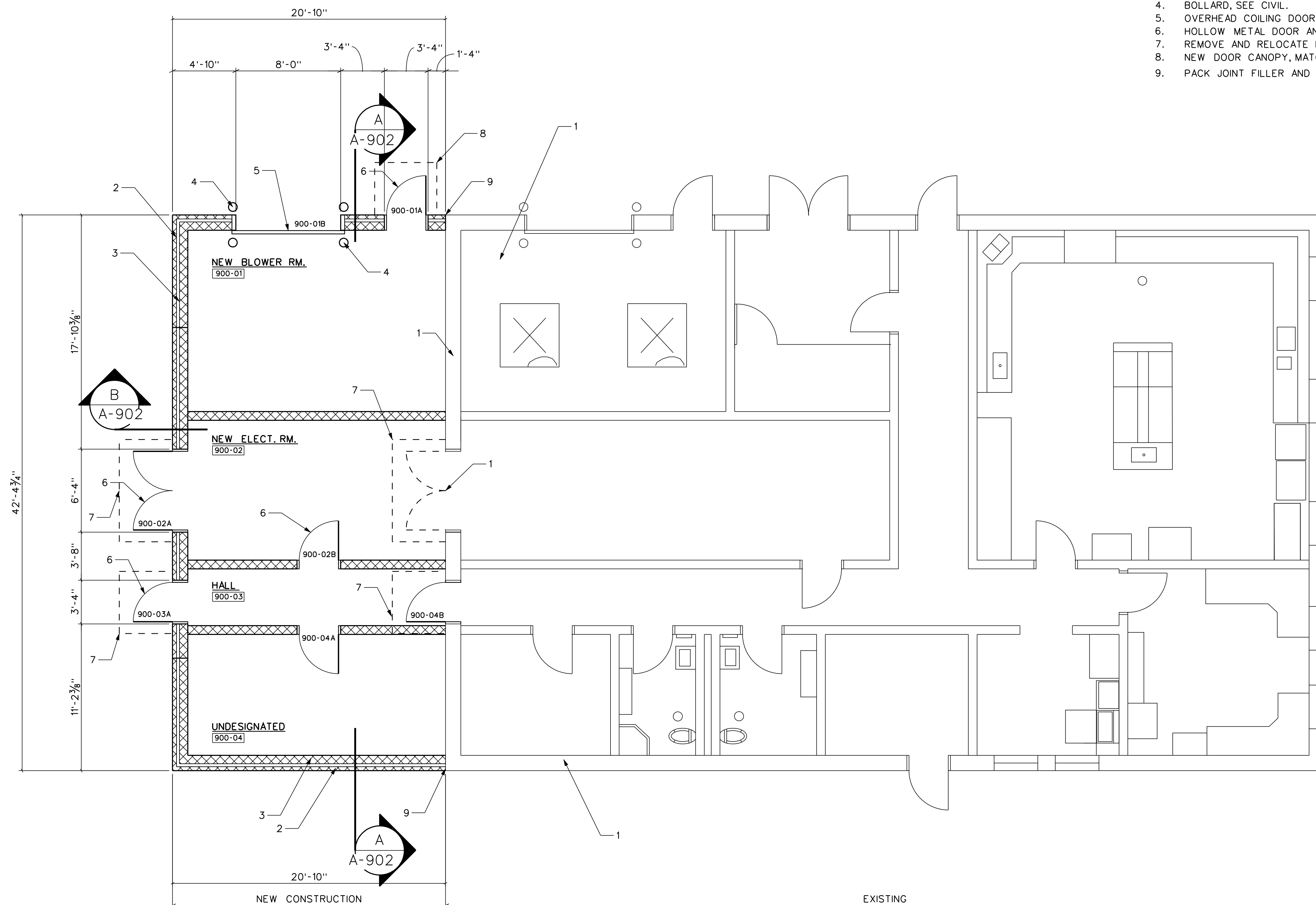


JOB NO. N16003
 ISSUE DATE November 30, 2018
 SCALE 1/4" = 1'-0"
 DRAWING NO. A-302

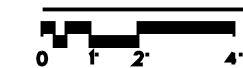
Jerry W. Reynolds
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 PHONE (615) 855 - 0406

DRAWING NOTES

1. REMOVE EXISTING DOOR AND FRAME.
2. 4" NOMINAL CMU VENEER.
3. CONCRETE MASONRY UNIT (CMU) WALL.
4. BOLLARD, SEE CIVIL.
5. OVERHEAD COILING DOOR.
6. HOLLOW METAL DOOR AND FRAME.
7. REMOVE AND RELOCATE DOOR CANOPY.
8. NEW DOOR CANOPY, MATCH EXISTING.
9. PACK JOINT FILLER AND EXTERIOR SEALANT.



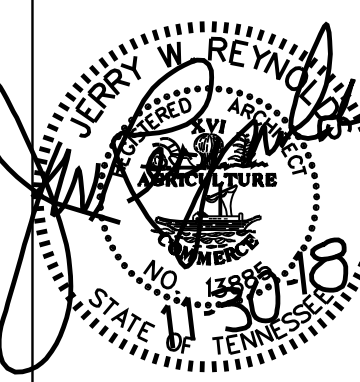
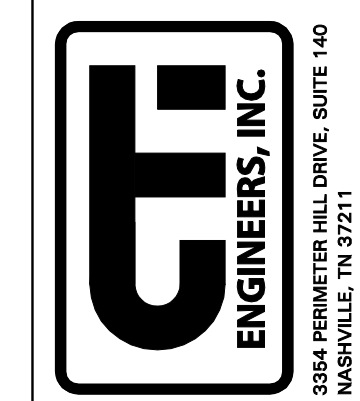
FLOOR PLAN



NO.	DESCRIPTIONS	DATE	BY	APP'D

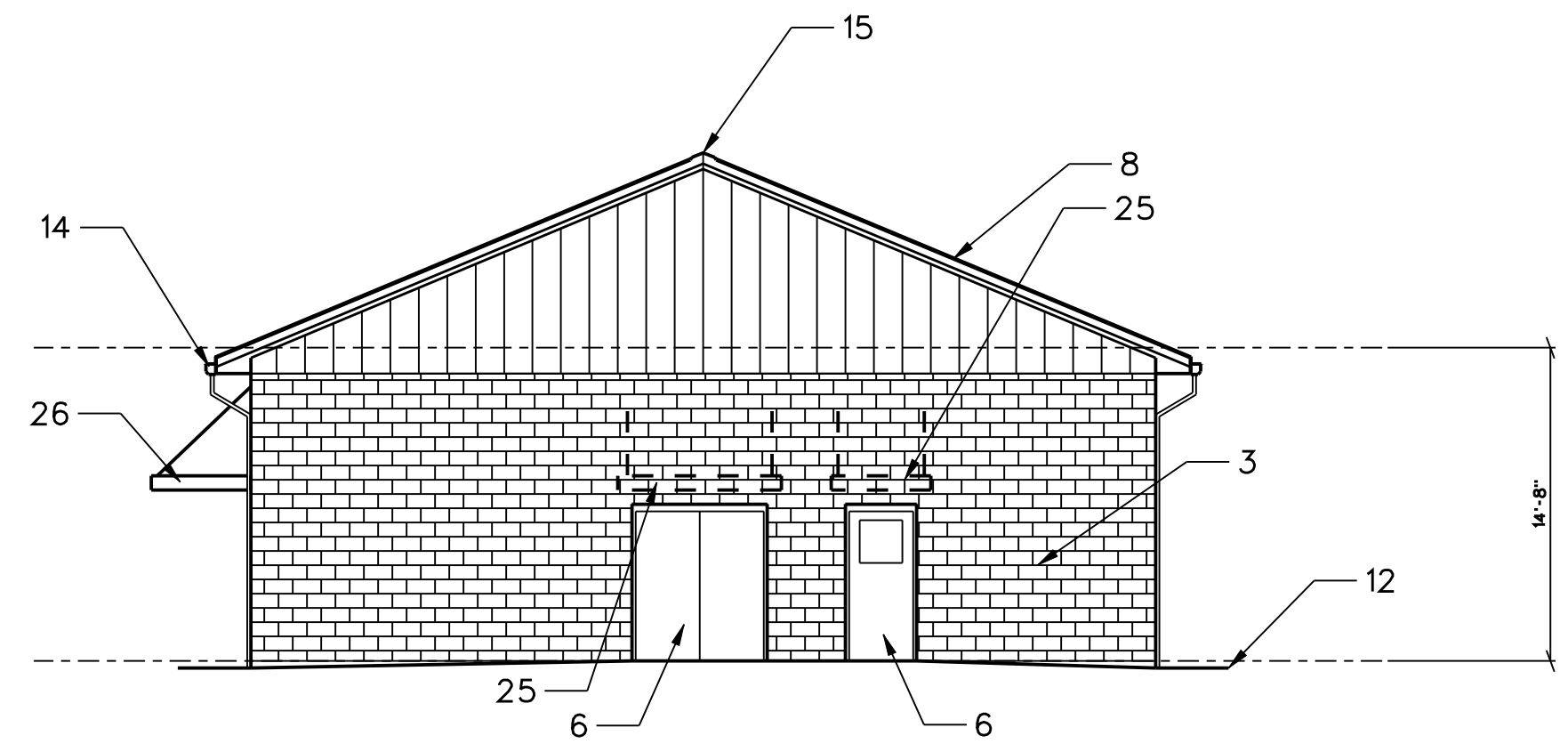
DESIGN	DRAWN	CHECKED	APPROVED
JR	JR	NH	NH

WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06
LAB / CONTROL BUILDING
FLOOR PLAN

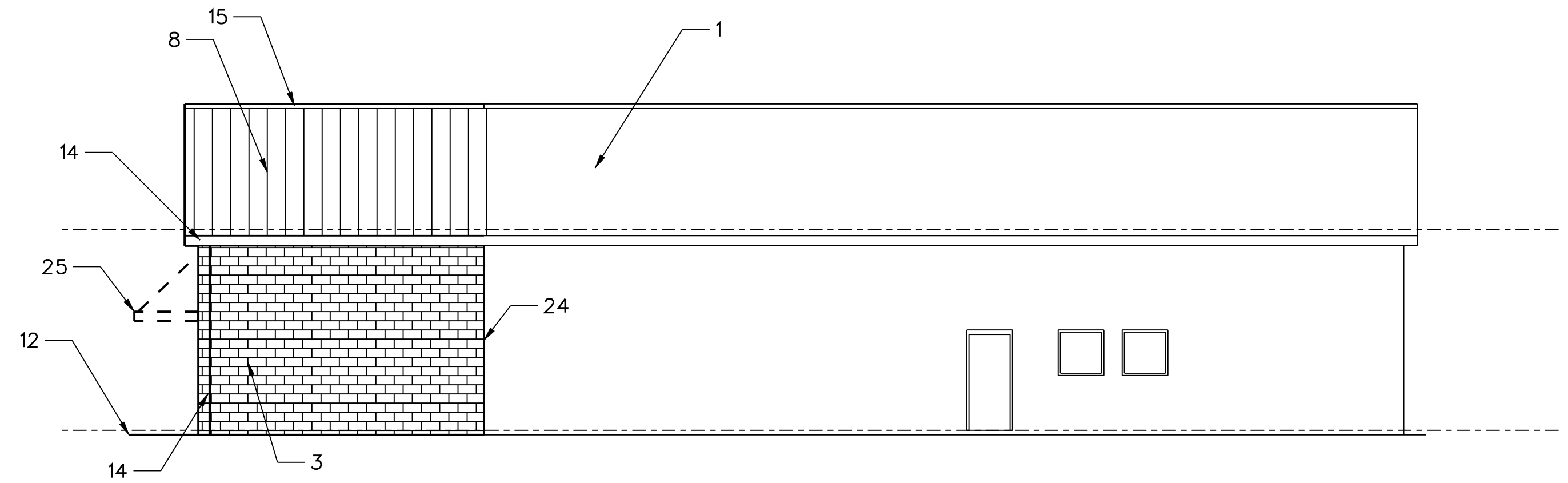
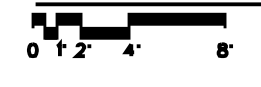


JOB NO.	N16003
ISSUE DATE	November 30, 2018
SCALE	1/4" = 1'-0"
DRAWING NO.	A-901

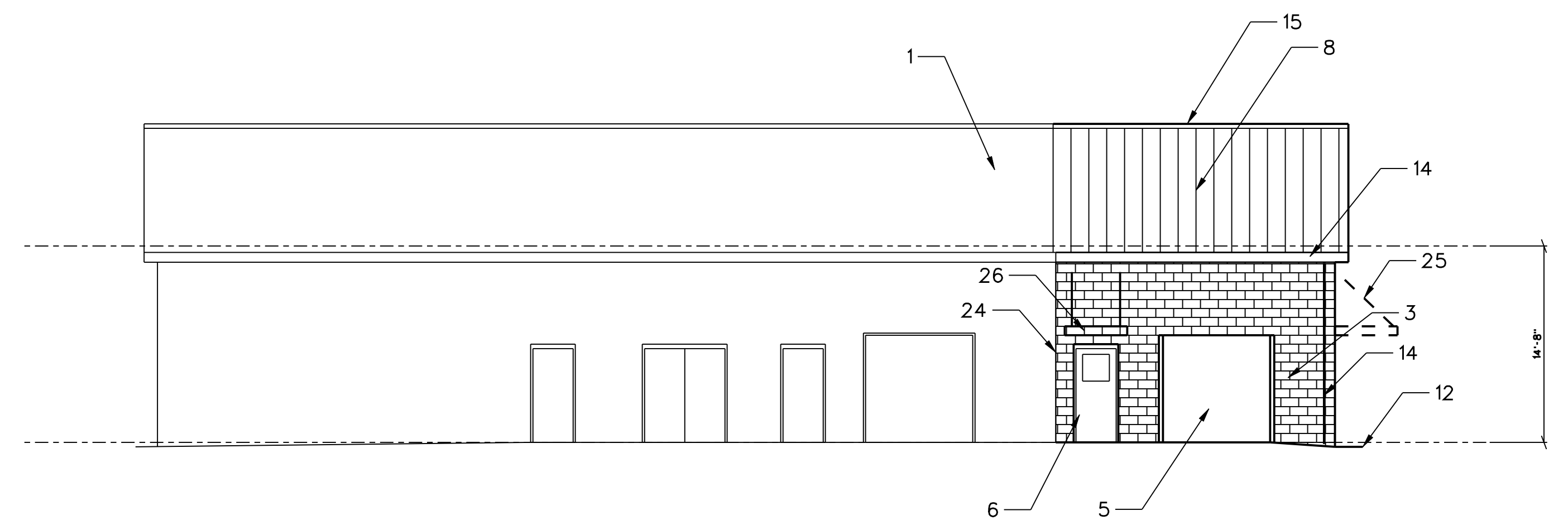
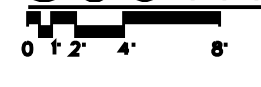
Jerry W. Reynolds
 architect
multidisciplinary interior design
 904 WEST CYNTHIA TRAIL
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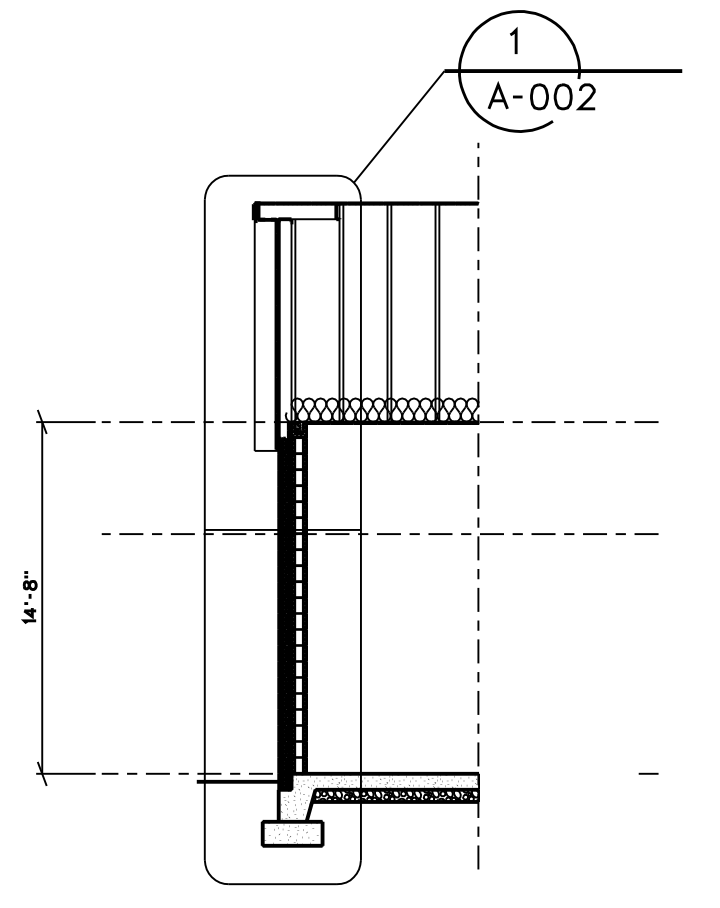
WEST ELEVATION



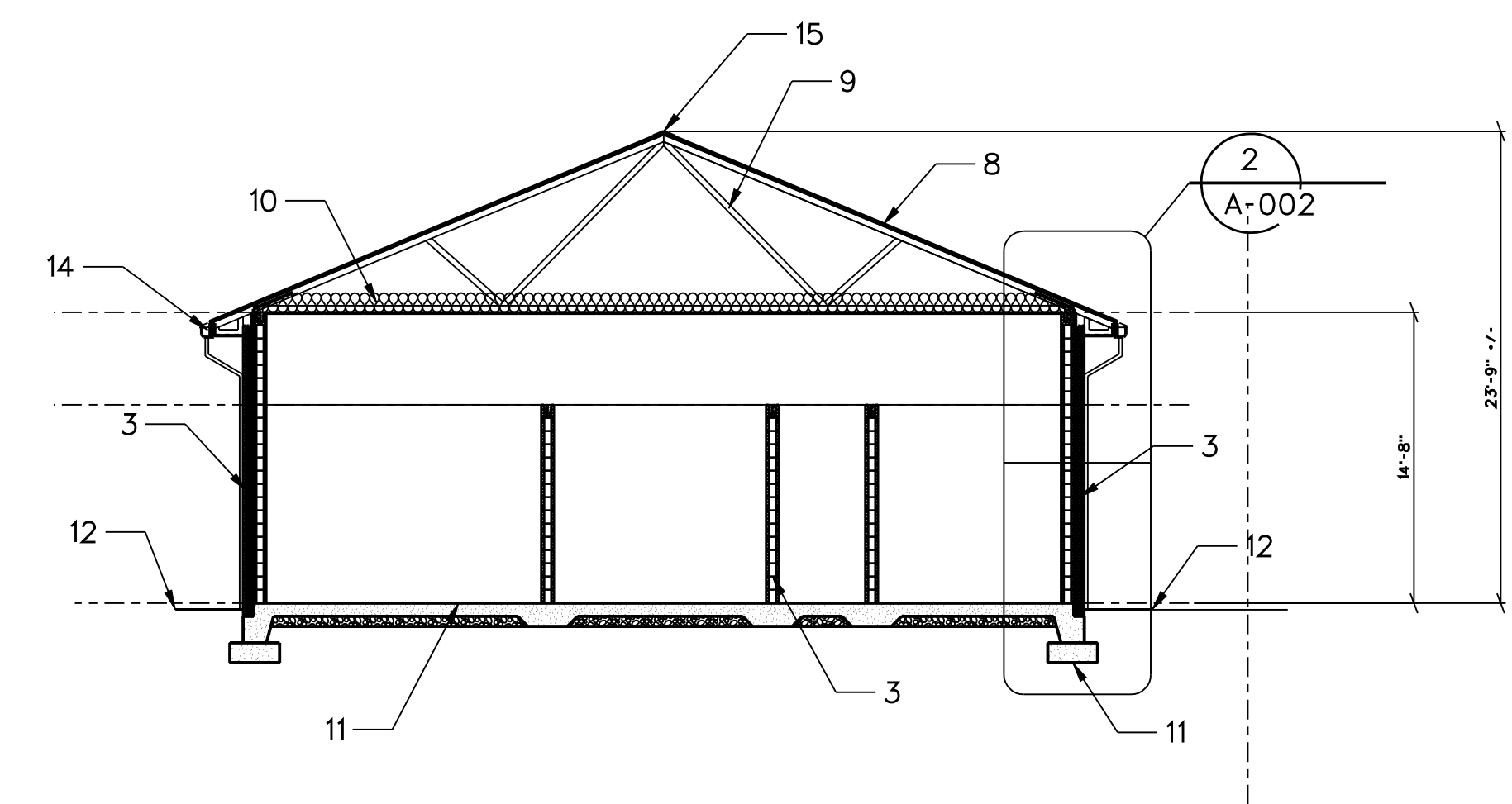
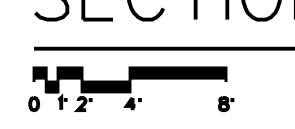
SOUTH ELEVATION



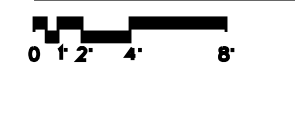
NORTH ELEVATION



SECTION A-002



SECTION A-902

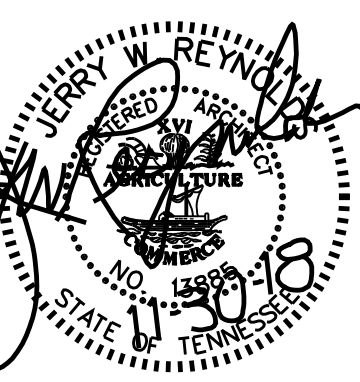
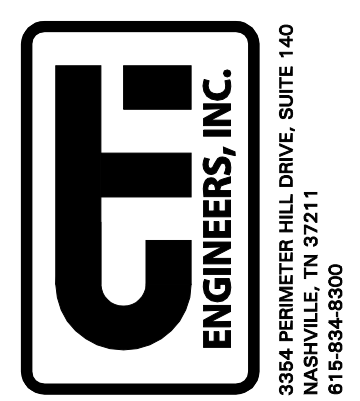


DRAWING NOTES

1. INSULATION BAFFLE, 2" CLEAR.
2. 1 1/2" CAVITY INSULATION.
3. CONCRETE MASONRY UNIT (CMU) WALL.
4. 5/8" WATER RESISTANT GYPSUM BOARD.
5. OVERHEAD COILING DOOR.
6. HOLLOW METAL DOOR AND FRAME.
7. 3/4" PLYWOOD GABLE AND ROOF SHEATHING.
8. PREFINISHED STANDING SEAM METAL ROOF.
9. LIGHTGAGE METAL PRE-ENGINEERED TRUSSES/FRAMING.
10. R-38 INSULATION.
11. SLAB AND FOUNDATION, SEE STRUCTURAL.
12. FINISH GRADE, SEE CIVIL.
13. ATTIC SPACE ACCESS DOOR.
14. PREFINISHED 6"X6" METAL GUTTER AND DOWNSPOUT, MATCH EXISTING.
15. PREFINISHED CONTINUOUS RIDGE VENT.
16. PREFINISHED METAL FASCIA/DRIP.
17. PREFINISHED VENTILATING METAL SOFFIT.
18. BASE ANGLE WITH DRIP.
19. BOND BEAM/LINTEL, SEE STRUCTURAL.
20. 8" METAL CHANNEL STUD SECURED TO C-STUD FASCIA ASSY.
21. PREFINISHED METAL 2"X3" DOWNSPOUT, MATCH EXISTING.
22. ICE AND WATER SHIELD.
23. 4" NOMINAL CMU VENEER.
24. PACK JOINT FILLER AND EXTERIOR SEALANT.
25. REMOVE AND RELOCATE EXISTING CANOPY.
26. NEW CANOPY, MATCH EXISTING.

NO.	REVISIONS DESCRIPTIONS	DESIGN		DRAWN		CHECKED		APPROVED	
		JR	JR	JR	NH	NH	NH		

WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06
 LAB / CONTROL BUILDING
 ELEVATIONS AND SECTIONS

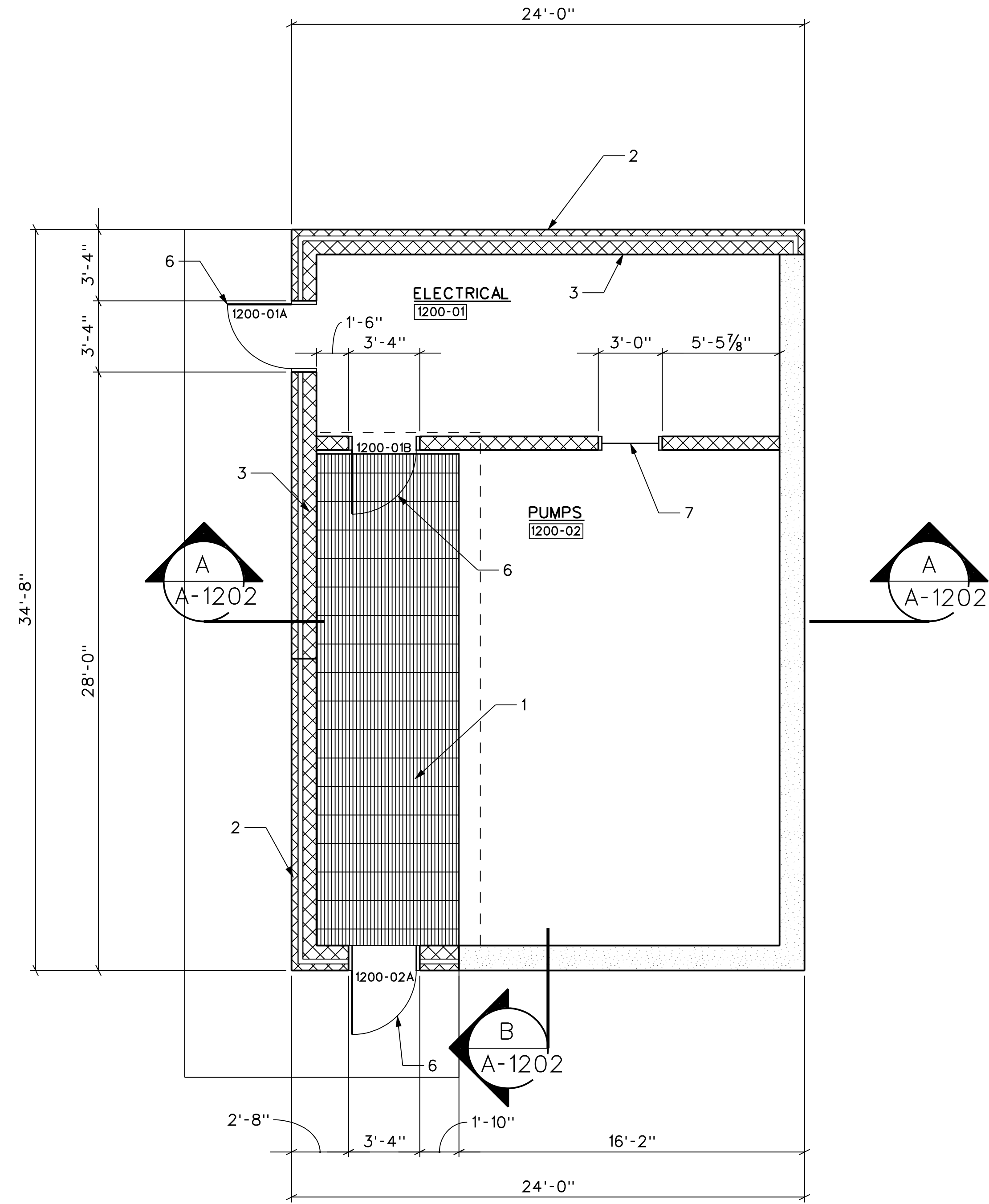


JOB NO.
N16003
 ISSUE DATE
November 30, 2018
 SCALE
1/8" = 1'-0"
 DRAWING NO.
A-902

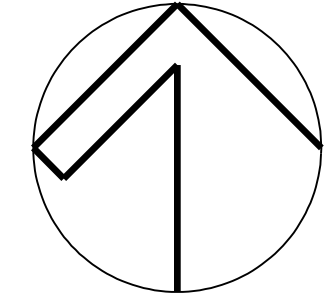
Jerry W. Reynolds
 architect
 904 WEST CYNTHIA TRAIL
 GOODLETTSVILLE, TN 37072-3517
 PHONE (615) 855 - 0406

DRAWING NOTES

1. GRATING.
2. 4" NOMINAL CMU VENEER.
3. CONCRETE MASONRY UNIT (CMU) WALL.
4. BOLLARD, SEE CIVIL.
5. OVERHEAD COILING DOOR.
6. HOLLOW METAL DOOR AND FRAME.
7. HOLLOW METAL WINDOW FRAME.



FLOOR PLAN

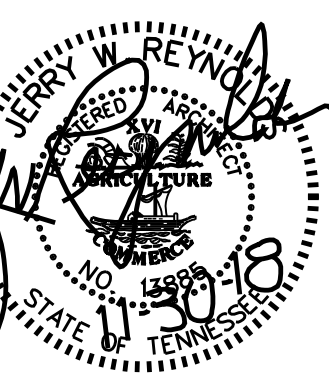
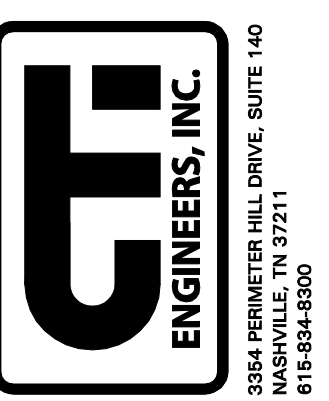


PLAN NORTH

NO.	DESCRIPTIONS	DATE	BY	APP'D

DESIGN	DRAWN	CHECKED	APPROVED
JR	JR	NH	NH

WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06
 SPRAY IRRIGATION PUMP STATION
 FLOOR PLAN

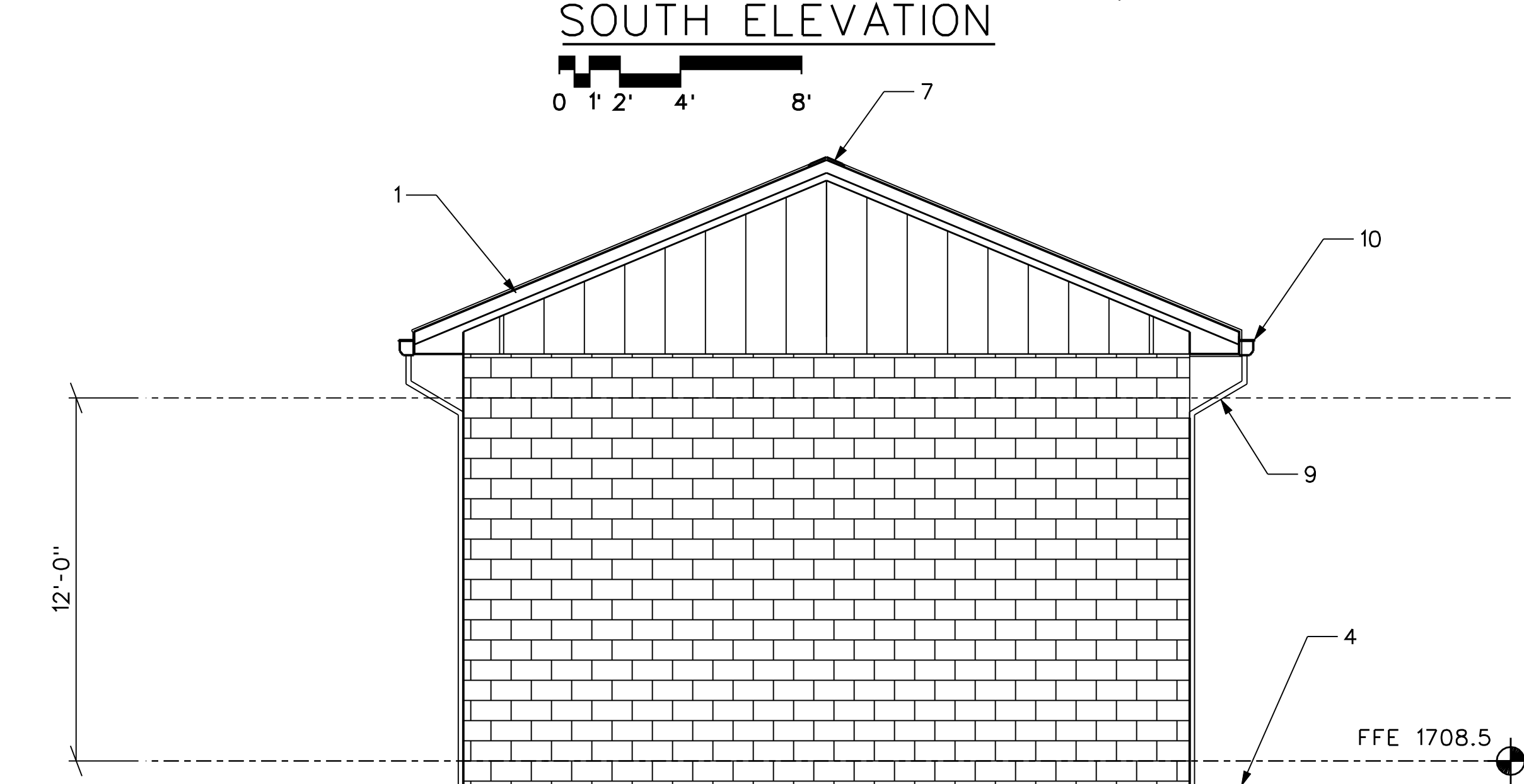
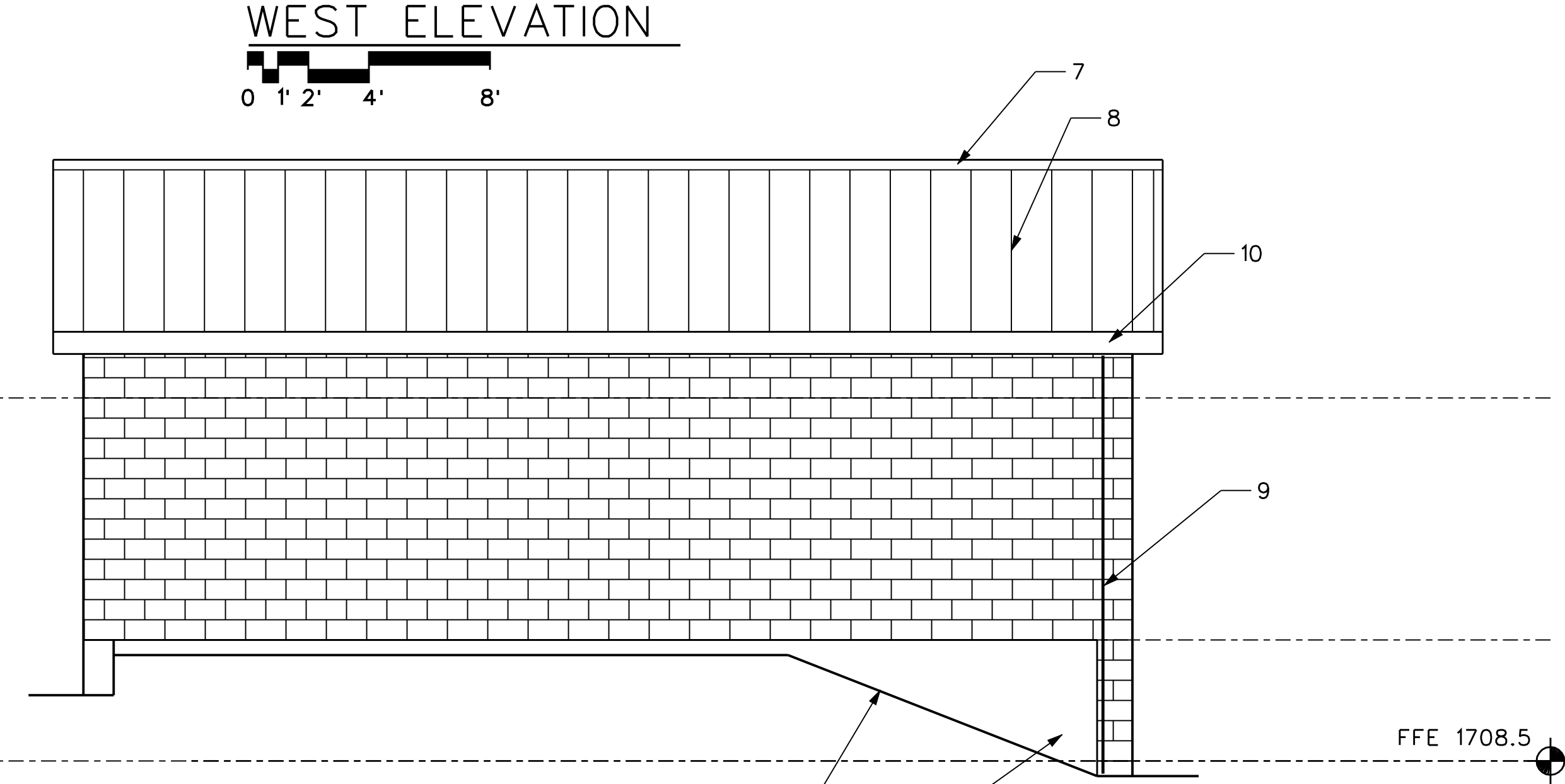
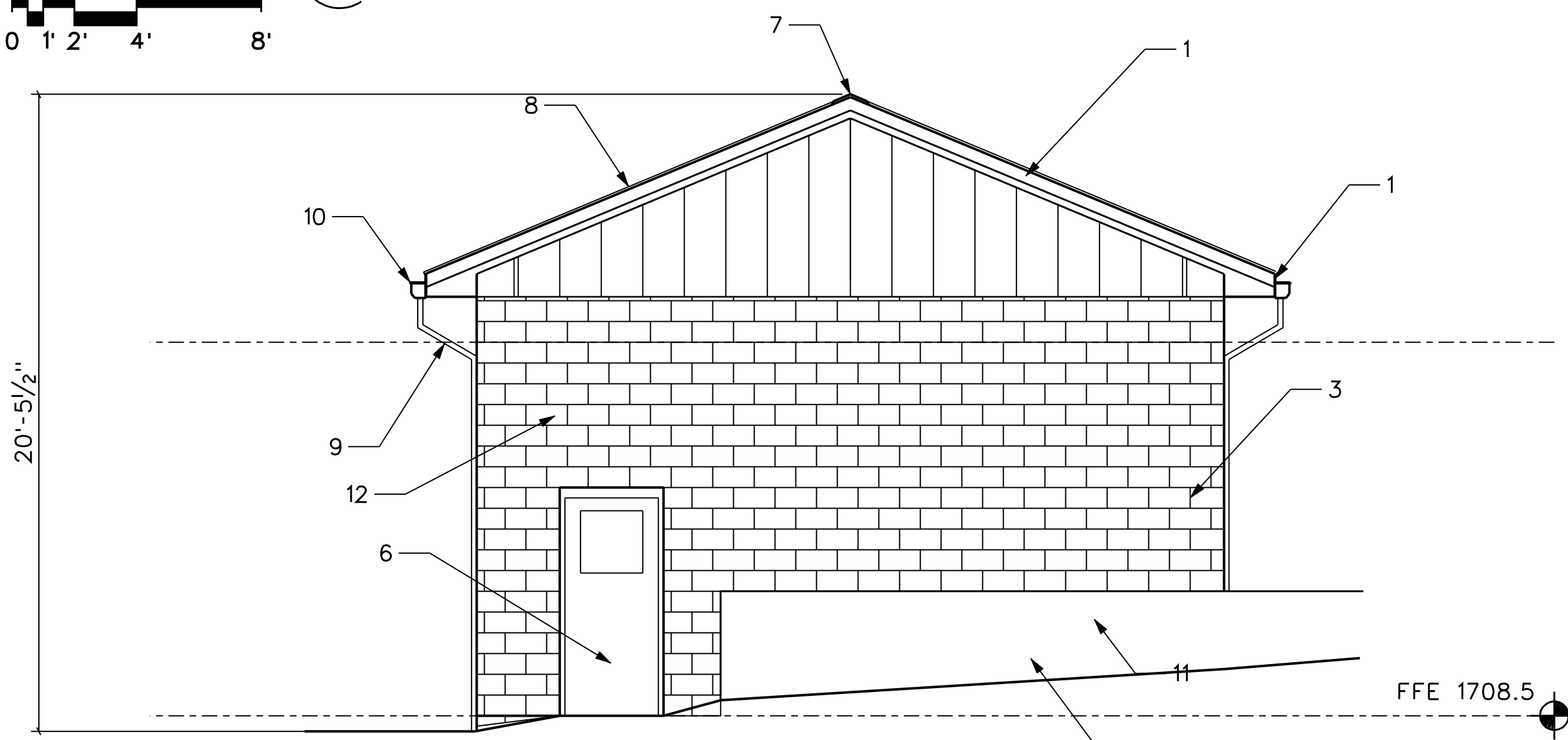
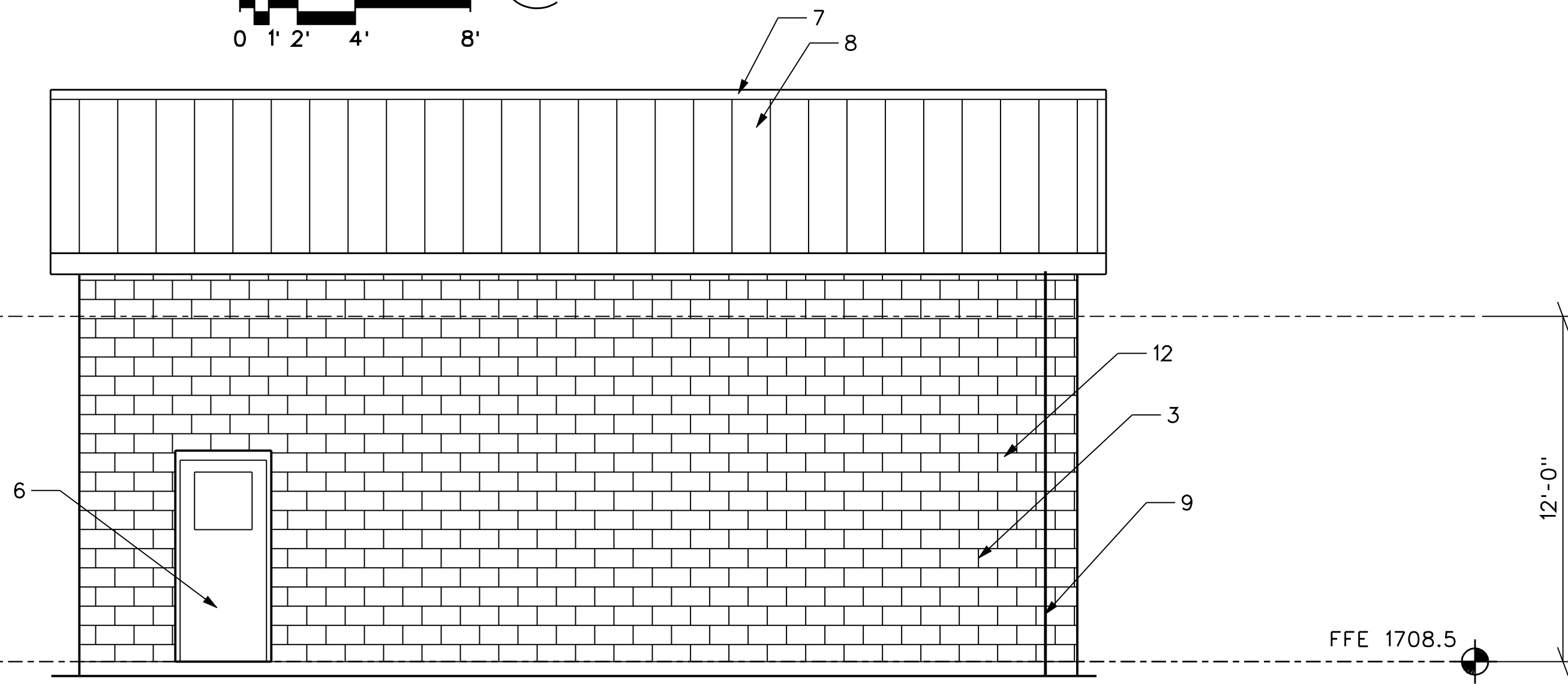
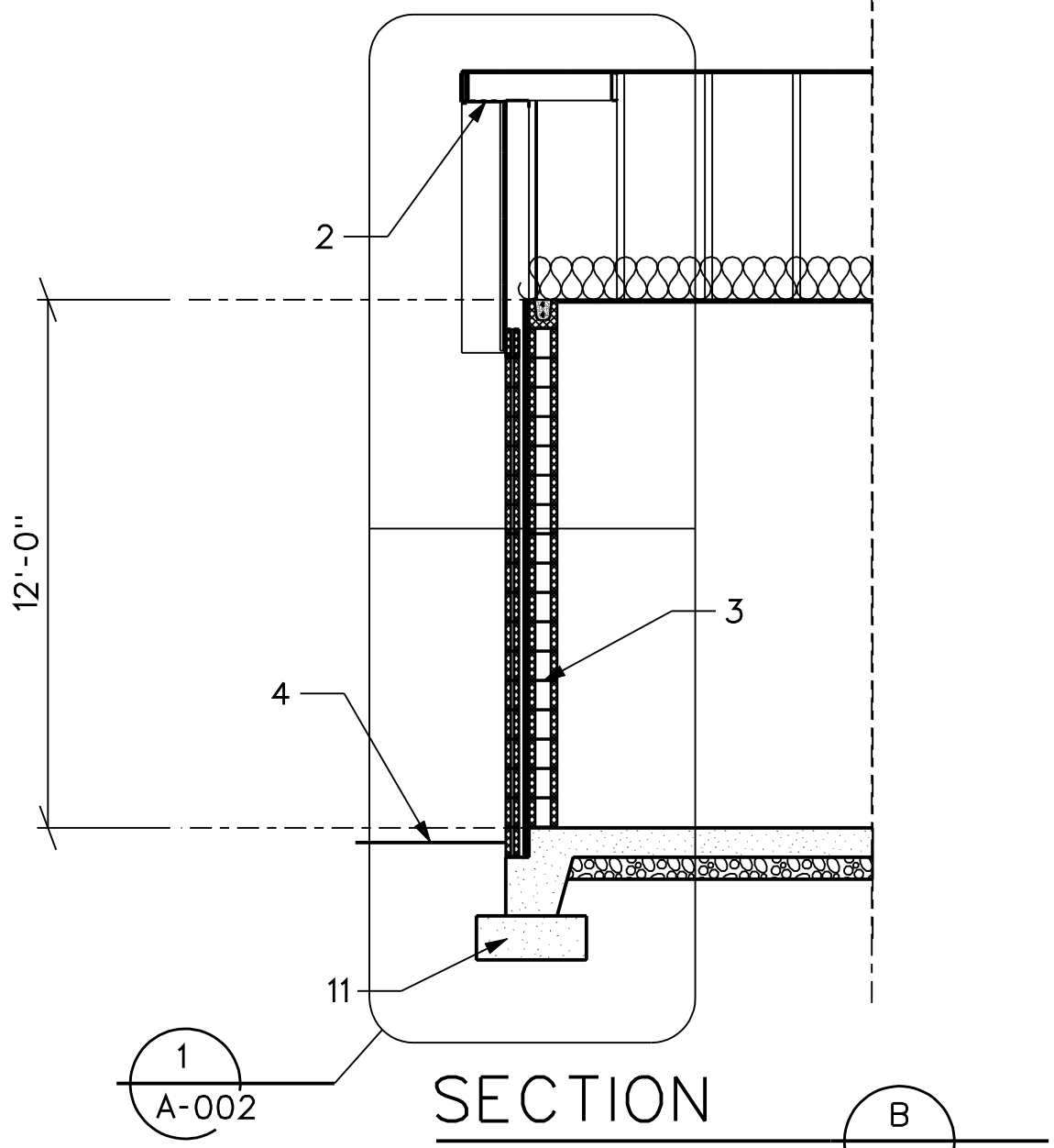
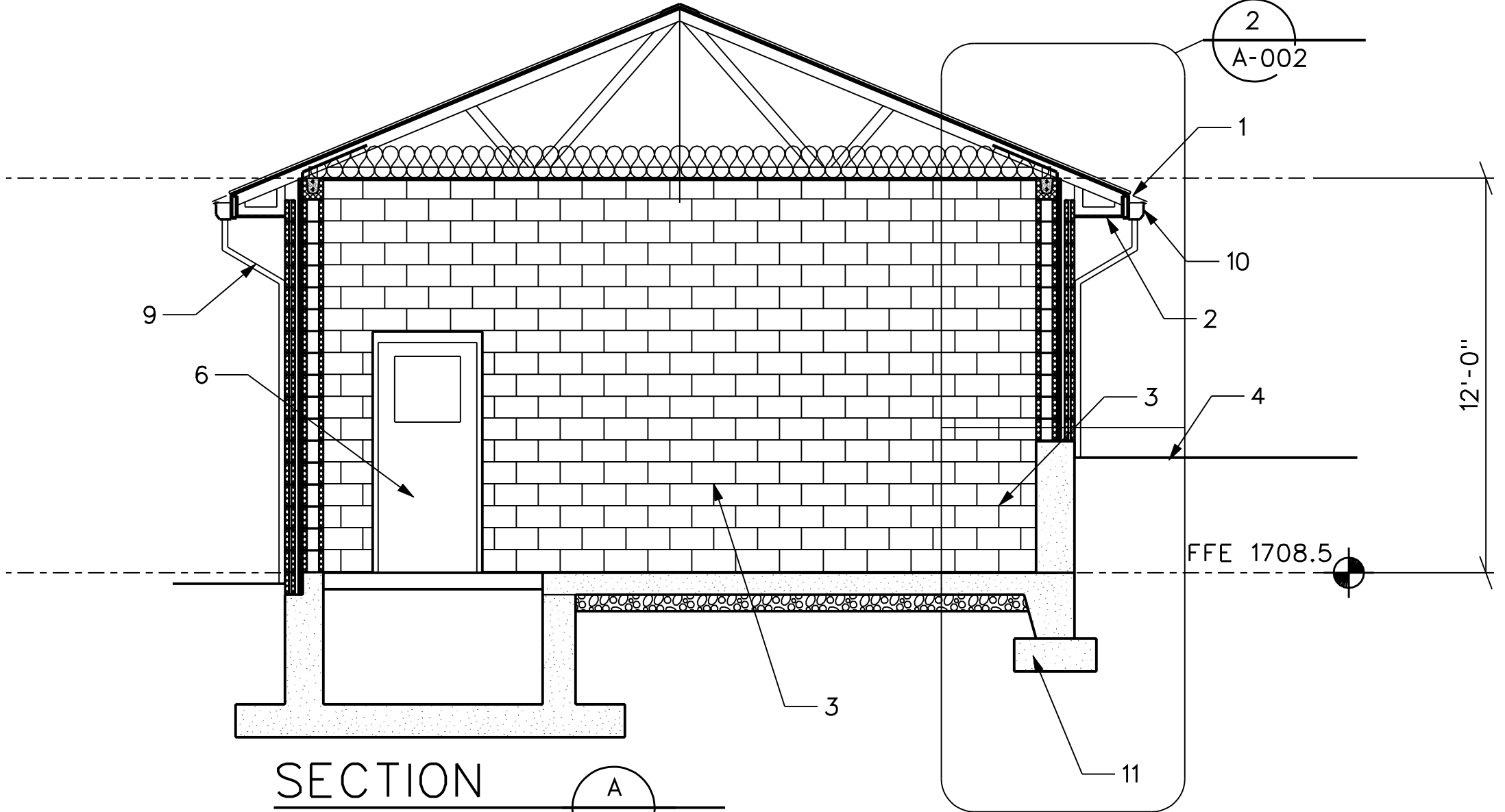


JOB NO.	N16003
ISSUE DATE	November 30, 2018
SCALE	1/4" = 1'-0"
DRAWING NO.	A-1201

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DRAWING NOTES

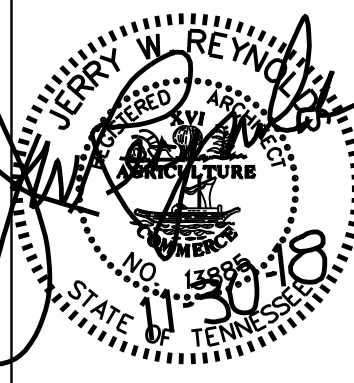
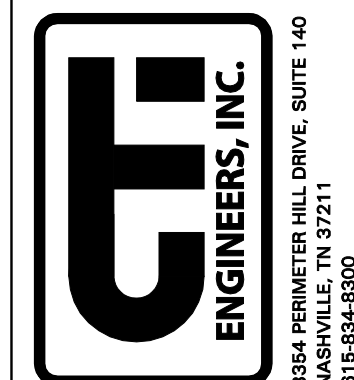
1. PREFINISHED METAL FASCIA/DRIP.
2. PREFINISHED VENTILATING METAL SOFFIT.
3. CONCRETE MASONRY UNIT (CMU) WALL.
4. FINISH GRADE, SEE CIVIL.
5. OVERHEAD COILING DOOR.
6. HOLLOW METAL DOOR AND FRAME.
7. PREFINISHED CONTINUOUS RIDGE VENT.
8. PREFINISHED STANDING SEAM METAL ROOF.
9. PREFINISHED METAL 2"X3" DOWNSPOUT, MATCH EXISTING.
10. PREFINISHED 6"X6" METAL GUTTER, MATCH EXISTING.
11. SLAB AND FOUNDATION, SEE STRUCTURAL.
12. 4" NOMINAL CMU VENEER.



NO.	REVISIONS DESCRIPTIONS	DATE	BY	APP'D

DESIGN	JR	DRAWN	JR	CHECKED	NH	APPROVED	NH

WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06
 SPRAY IRRIGATION PUMP STATION
 ELEVATIONS AND SECTIONS



JOB NO. N16003
 ISSUE DATE November 30, 2018
 SCALE 1/4" = 1'-0"
 DRAWING NO. A-1202

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CTI PROJECT: N16003-01 (TN Dept. General Services TDEC) Bledsoe County Correctional Complex DRAWING: CTI - C-007 EXISTING SITE PIPING PLAN SHEET 4 (6/6/2019 2:24PM) LAYOUT: Model

DATE OF PRINT: 3/14/2019 1:45 PM

EXHAUST FAN SCHEDULE

DRAWING SYMBOL	USE	AMCA CFM	S.P. IN WATER	RPM	TIP SPEED	HP	TYPE	VOLTAGE	SONES	WEIGHT LBS.	MANUFACTURER & MODEL#
	VENTILATION	6000	0.3	742	5827	1.5	WALL	460/3	21.0	275	COOK 30XLPH
	VENTILATION	1500	0.3	812	5181	1/4	WALL	460/3	10.0	220	COOK 24XMP

ACCESSORIES AND FEATURES:
 * WALL FANS: WALL SHUTTER (HEAVY DUTY); WALL COLLAR; MOTOR SIDE GUARD; DISCONNECT @ FAN.
 * BASIS OF DESIGN IS LOREN COOK COMPANY. ALTERNATES BY GREENHECK AND TWIN CITY WILL BE CONSIDERED.

SPLIT SYSTEM HEAT PUMP SCHEDULE

DRAWING SYMBOL	TOTAL CFM	CFM OA	MIN. E.S.P.	EVAP. FAN HP	COOLING (MBH)		HEAT (MBH) @ 47° F	AUX. HEAT (KW)	SEER	COP	COND. UNIT			INDOOR UNIT			MODEL#	
					TOTAL	SENSIBLE					MCA	MOCF	VOLTAGE	MCA	MOCF	VOLTAGE	AIR UNIT	COND. UNIT
	2000	--	0.25	3/4	56,800	42,800	54,500	5.0	14.5	3.4	9.0	15.0	480/3	11.2	15.0	480/3	TEM4A0C60	4TWA4060
	1600	--	0.25	3/4	46,800	34,000	45,900	5.0	14.0	3.4	8.0	15.0	480/3	11.2	15.0	480/3	TEM4A0C48	4TWA4048

ACCESSORIES AND FEATURES: (BY EQUIPMENT INSTALLER)
 * CONTROLS TO HOLD AUXILIARY HEAT OFF UNTIL BALANCE POINT IS REACHED. SUBMIT GRAPH SHOWING BALANCE POINTS W/EQUIPMENT SUBMITTALS.
 * SUCTION LINE ACCUMULATOR, COMPRESSOR ANTI-CYCLE TIMER, AND CRANKCASE HEATER.
 * BASIS OF DESIGN IS TRANE. SEE PROJECT MANUAL FOR ADDITIONAL APPROVED MANUFACTURERS.
 * COOLING CAPACITIES ARE AT 80/67° F INDOOR AND 95° F OUTDOOR TEMPERATURE.
 * HEATING CAPACITIES ARE AT 70° F INDOOR AND 47° F OUTDOOR TEMPERATURE.
 * EQUIPMENT TO ARI CERTIFIED AND U.L. APPROVED.
 * AUTOMATIC CHANGEOVER THERMOSTAT WITH EMERGENCY HEAT SUBBASE AND LOCKING PLASTIC COVER.
 * COOLING CAPACITIES DO NOT HAVE FAN MOTOR HEAT DEDUCTED.
 * SUBMIT SHOP DRAWINGS SHOWING COOLING CAPACITIES WITH MOTOR HEAT AS NOTED.
 * FOLLOW MANUFACTURERS GUIDELINES FOR LONG LINE APPLICATIONS.

DUCTLESS SPLIT SYSTEM SCHEDULE

DRAWING SYMBOL	TOTAL CFM	EVAP. FAN	CAPACITY (MBH)		SEER	INDOOR UNIT		COND. UNIT		MODEL NUMBER		REMARKS
			COOLING	HEATING		MCA	VOLTAGE	MCA	VOLTAGE	AIR UNIT	COND. UNIT	
	775	56w	24.0	26.0	17.0	1.0	208/1	18.0/25	208/1	PKA-A24KAL	PUZ-A24KAL	SEE BELOW
	775	56w	30.0	34.0	19.8	1.0	208/1	19.0/25	208/1	PKA-A30KAL	PUZ-A30KAL	SEE BELOW
	364	30w	12.0	14.4	23.1	1.0/15	208/1	9.0/15	208/1	MSZ-GL12NA	MUZ-GL12NA	SEE BELOW

ACCESSORIES AND FEATURES: (BY EQUIPMENT INSTALLER)
 * SUCTION LINE ACCUMULATOR, COMPRESSOR ANTI-CYCLE TIMER, AND CRANKCASE HEATER.
 * COOLING CAPACITIES ARE AT 80/67° F INDOOR AND 95° F OUTDOOR TEMPERATURE.
 * HEATING CAPACITIES ARE AT 70° F INDOOR AND 47° F OUTDOOR TEMPERATURE.
 * EQUIPMENT TO ARI CERTIFIED AND U.L. APPROVED.
 * WALL MOUNTED THERMOSTAT AND LOCKING PLASTIC COVER.
 * COOLING CAPACITIES DO NOT HAVE FAN MOTOR HEAT DEDUCTED.
 * DSS-2 AND DSS-3 CONDENSER UNIT SHALL POWER THE INDOOR UNIT.
 * CONDENSER UNIT SHALL BE PROVIDED WITH LOUVERED HAIL GUARDS.
 * DRAIN PAN WITH CONDENSATE PUMP.
 * SUBMIT SHOP DRAWINGS SHOWING COOLING CAPACITIES WITH MOTOR HEAT AS NOTED.
 * FOLLOW MANUFACTURERS GUIDELINES FOR LONG LINE APPLICATIONS.
 * BASIS OF DESIGN IS MITUBISHI. SEE PROJECT MANUAL FOR OTHER APPROVED MANUFACTURERS.

LOUVER SCHEDULE

DRAWING SYMBOL	LOUVER SIZE (WIDTH X HEIGHT)	CFM	MINIMUM SQ/FT FREE AREA	MAXIMUM PRESSURE DROP (IN. WG)	MANUFACTURER & MODEL#	NOTES
	48x54	6000	8.46	0.06	RUSKIN ELC6375D	SEE BELOW
	30x30	1500	2.39	0.06	RUSKIN ELC6375D	SEE BELOW

NOTES AND FEATURES:
 * LOUVERS SHALL BE BEAR AMCA SEAL AND SHALL BE TESTED IN ACCORDANCE WITH AMCA 5111.
 * WATER PENETRATION THROUGH LOUVER SHALL NOT OCCUR BELOW 1000 FPM (FREE AREA)
 * BASIS OF DESIGN IS RUSKIN. SEE PROJECT MANUAL FOR ADDITIONAL APPROVED MANUFACTURERS.

MECHANICAL LEGEND

STANDARD ABBREVIATIONS AND NOTATIONS			
CD	CEILING DIFFUSER	EX	EXHAUST DUCTWORK
CE	CEILING EXHAUST	FA	FROM ABOVE
CR	CEILING RETURN	FFE	FINISHED FLOOR ELEVATION
DN	DOWN	NIC	NOT IN CONTRACT
ER	EXHAUST REGISTER	OA	OUTDOOR AIR DUCTWORK
RE	RETURN DUCTWORK	RR	RETURN REGISTER
SR	SUPPLY REGISTER	SU	SUPPLY DUCTWORK

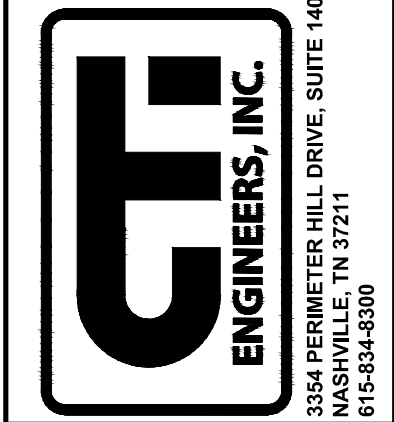
SYMBOL	DESCRIPTION
	RECTANGULAR DUCT: MANUAL OPPOSED BLADE DAMPER WITH LOCKING QUADRANT. LEVER OPERATOR, OF STEEL CONSTRUCTION. LOUVERS & DAMPERS MODEL CD-400; KRUEGER MODEL OBD-DM TYPE 2 OPERATION FOR LESS THAN 10" WIDE.
	ROUND DUCT: ROUND BLADE CONTROL DAMPER OF STEEL CONSTRUCTION WITH MANUAL OPERATOR. LOUVERS AND DAMPERS MODEL CD-600.
	SHEET METAL CONNECTORS, INC. HIGH EFFICIENCY TAKEOFF WITH DAMPER AND LOCKING QUADRANT FOR ROUND DUCT TAKEOFFS FROM RECTANGULAR DUCTWORK. INCREASE MAIN DUCT SIZE AT FITTING TO ACCOMMODATE ITS INSTALLATION IF REQUIRED TO MEET SMACNA AND MANUFACTURER'S INSTRUCTIONS. ALL BRANCH TAKEOFFS SHALL HAVE BALANCING DAMPERS FOR BALANCING PURPOSES. DIMENSION: D = RUNOUT DIAMETER (6"-14")
	RECTANGULAR ELBOW WITH SINGLE THICKNESS TURNING VANES OF STEEL CONSTRUCTION.
	RECTANGULAR ELBOW WITH SINGLE THICKNESS TURNING VANES OF STEEL CONSTRUCTION.
	SUPPLY DUCT RISER
	RETURN DUCT RISER
	EXHAUST DUCT RISER
	OUTDOOR AIR DUCT RISER
	2 POSITION MOTOR OPERATED GALVANIZED STEEL OPPOSED BLADE DAMPER WITH TIGHT SEAL INSULATED BLADES, TRANSFORMER, AND/OR RELAY, AND ALL OTHER REQUIRED ACCESSORIES. LOUVERS AND DAMPERS MODEL TSD-400 UD-1. VOLTAGE 120/1/60.
	EQUIPMENT TAG
	DOOR GRILLE - KRUEGER MODEL 600A, STEEL CONSTRUCTION NUMBER IN CIRCLE INDICATES NET FREE AREA OF GRILLE IN SQ.FT.
	UNDERCUT DOOR 3/4"
	ELECTRICAL PANEL - AVOID INSTALLING EQUIPMENT IN PANEL BOARD SPACE PER ARTICLE 110 OF THE NATIONAL ELECTRIC CODE.
	WALL SWITCH - XXX-1
	THERMOSTAT - XXX-1
	REFER TO NOTE #1
	SURFACE MOUNT GRILLE OR DIFFUSER
	DUCT MOUNTED SMOKE DETECTOR, SUPPLIED BY ELECTRICAL TRADE, INSTALLED BY MECHANICAL TRADE. MECHANICAL TRADE SHALL PROVIDE AND INSTALL INTERLOCK WIRING BETWEEN DSD AND AIR HANDLING UNIT FOR UNIT SHUT DOWN.
	REMOTE LOCATED CARBON DIOXIDE SENSOR

NO.	DESIGN DESCRIPTIONS	DATE	BY	APPD

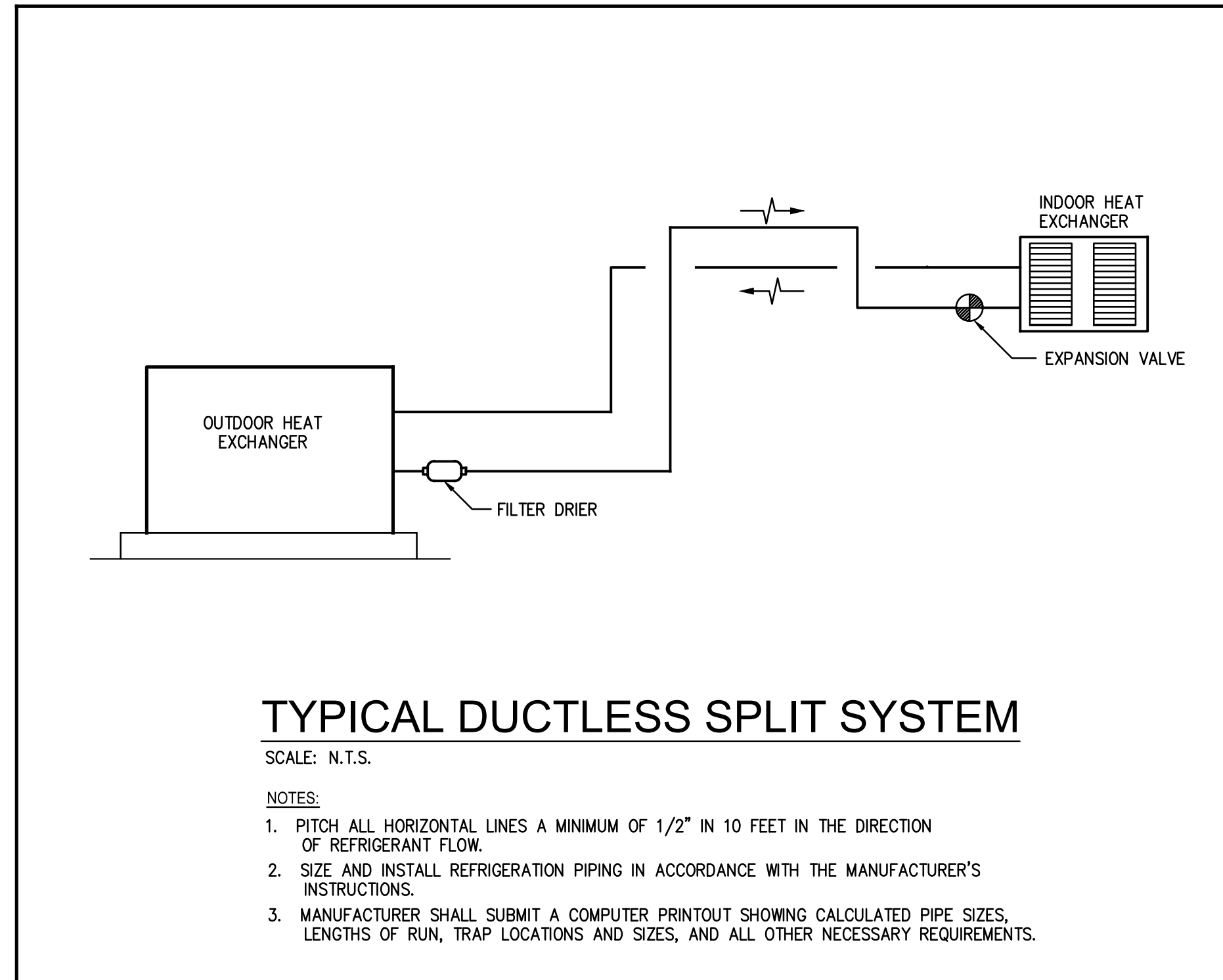
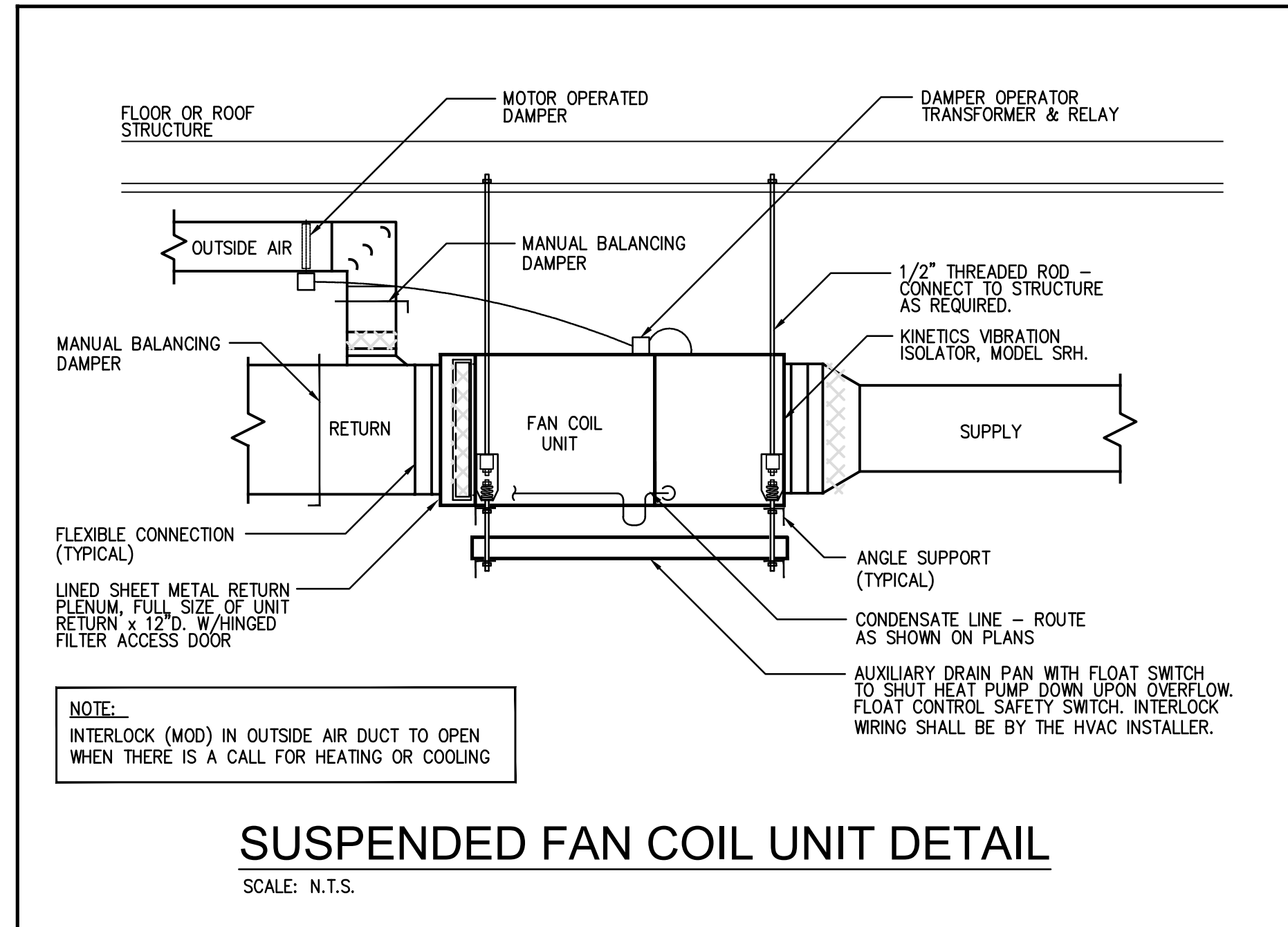
DESIGN: KLS
 DRAWN: JAA
 CHECKED: KLS
 APPROVED: KLS

WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

LEGEND AND SCHEDULES - HVAC



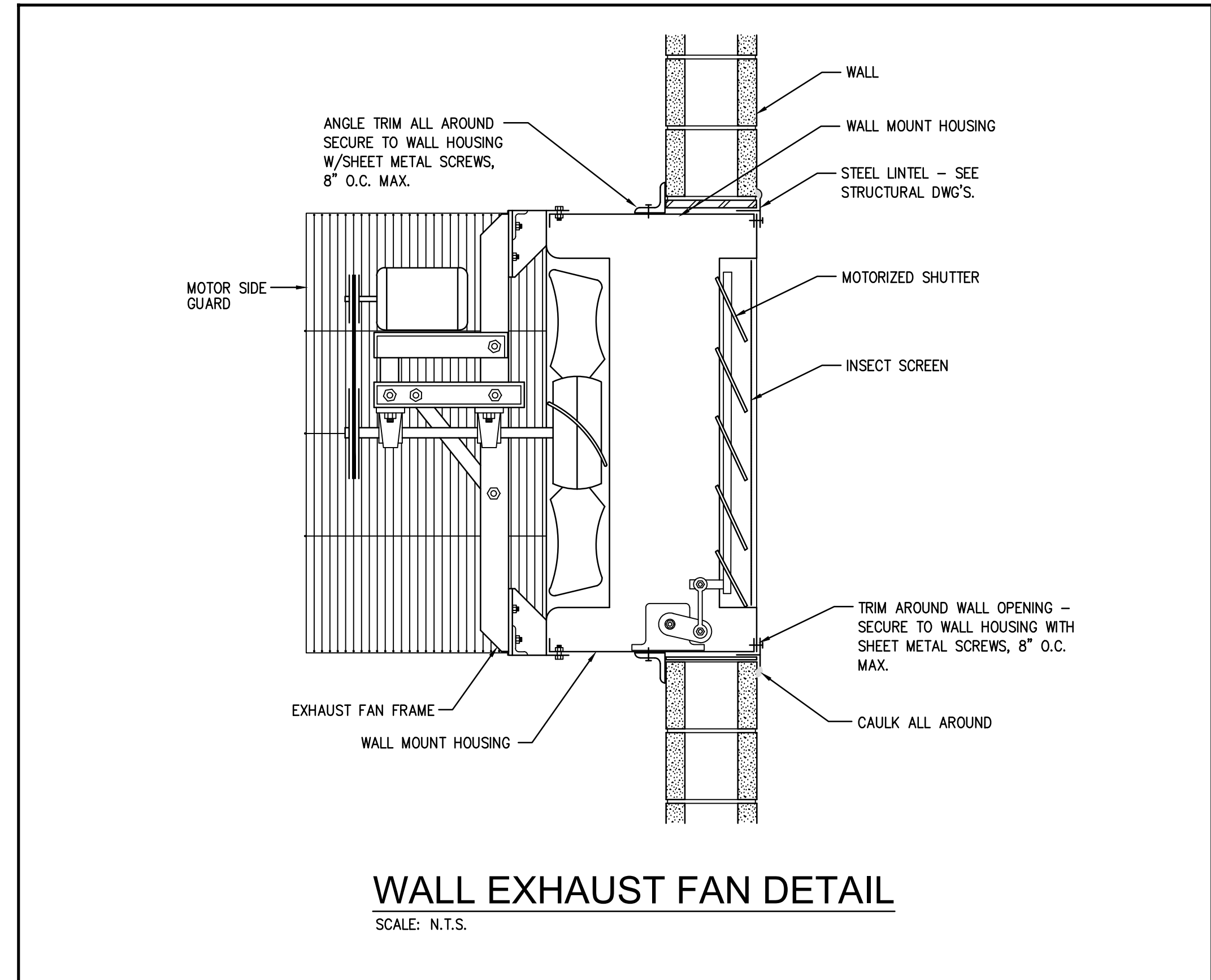
JOB NO. N16003
 ISSUE DATE November 30, 2018
 SCALE NONE
 DRAWING NO. ME001



ELECTRIC HEATER SCHEDULE							
DRAWING SYMBOL	TYPE	KW	CFM	VOLTAGE/PHASE	FAN R.P.M.	FAN HP	MANUFACTURER & MODEL#
EH 1	UNIT HEATER	7.5	700	480/3	--	--	MARKEL 5100 SERIES
EH 2	UNIT HEATER	5.0	400	480/3	--	--	MARKEL 5100 SERIES

UNIT HEATERS

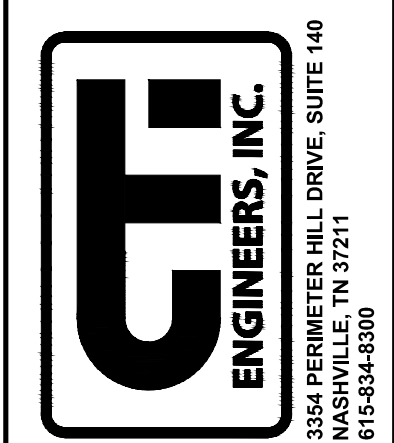
- TAMPER-PROOF BUILT-IN THERMOSTAT.
- U.L. LABELED.
- ENCLOSURE CONSTRUCTED OF HEAVY GAUGE STEEL, ZINC COATED BOTH SIDES AND FINISHED IN BAKED ENAMEL.
- PERMANENT LUBRICATED MOTOR, TOTALLY ENCLOSED, IMPEDENCE PROTECTION, SAME VOLTAGE AS HEATER.
- "ZERO VOLTAGE RESET" THERMAL OVERLOAD PROTECTION AND DISCONNECT SWITCH.
- WALL MOUNTING BRACKET.
- BASIS OF DESIGN IS MARKEL. ALTERNATES BY MODINE AND TPI WILL BE CONSIDERED.



DESIGN	REVISIONS			
	NO.	DATE	BY	APPD
KLS				
JAA				
KLS				
KLS				

WASTEWATER TREATMENT PLANT EXPANSION
BLEDSOE COUNTY CORRECTIONAL COMPLEX
PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SEC PROJECT 142/013-01-2013-06

SCHEDULE AND DETAILS - HVAC - 1 OF 2

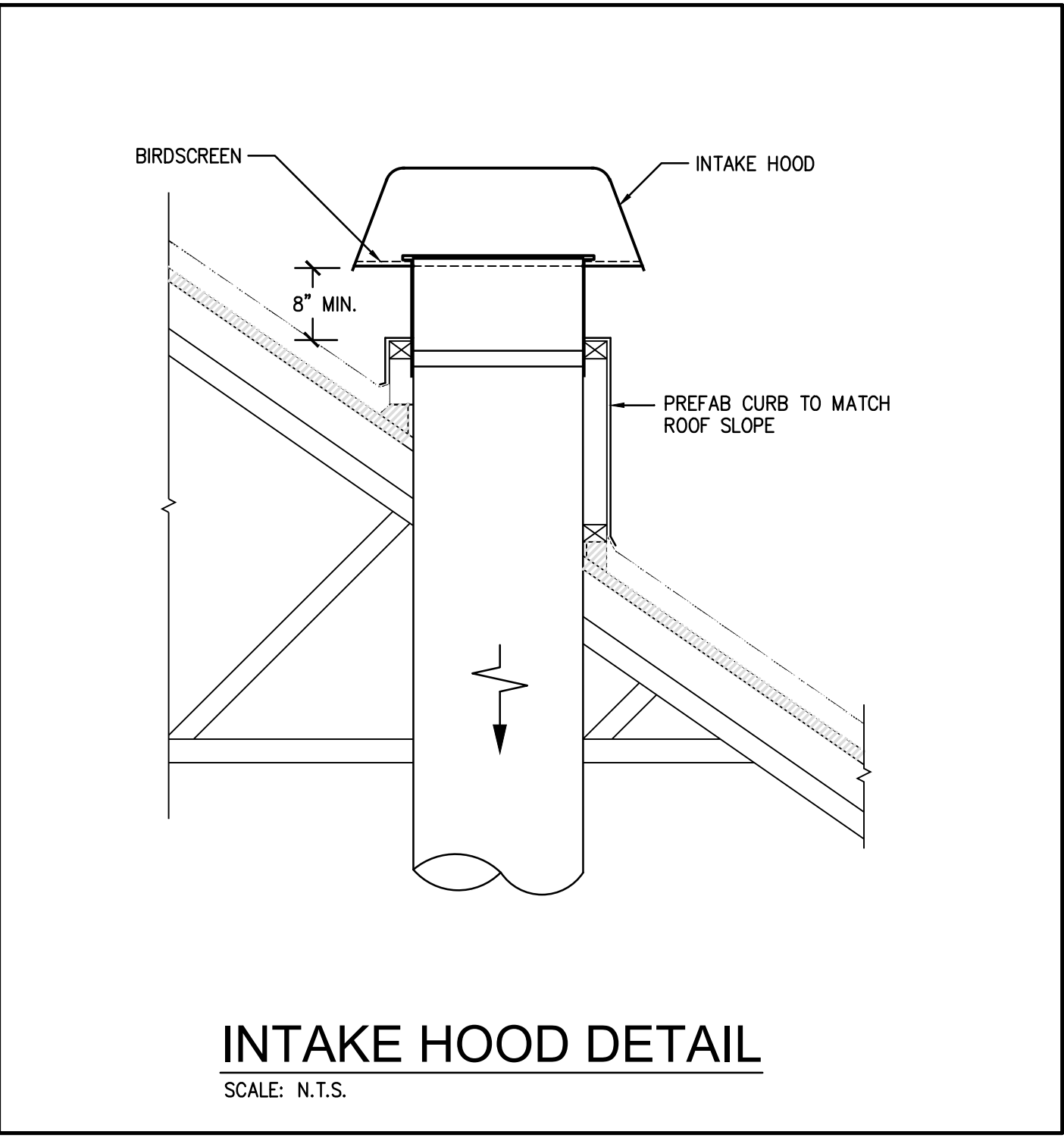


JOB NO.
N16003

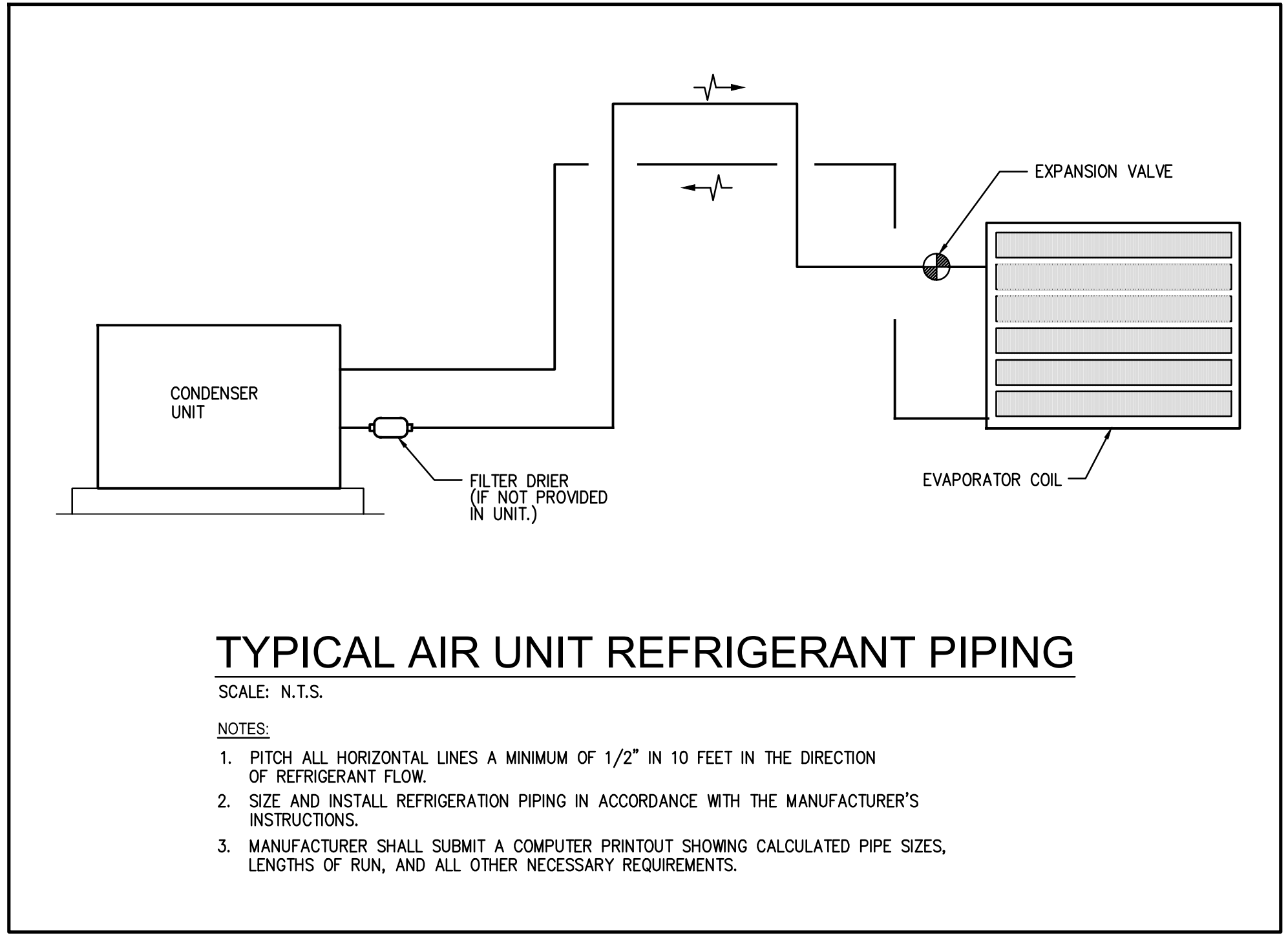
ISSUE DATE
November 30, 2018

SCALE
NONE

DRAWING NO.
ME002

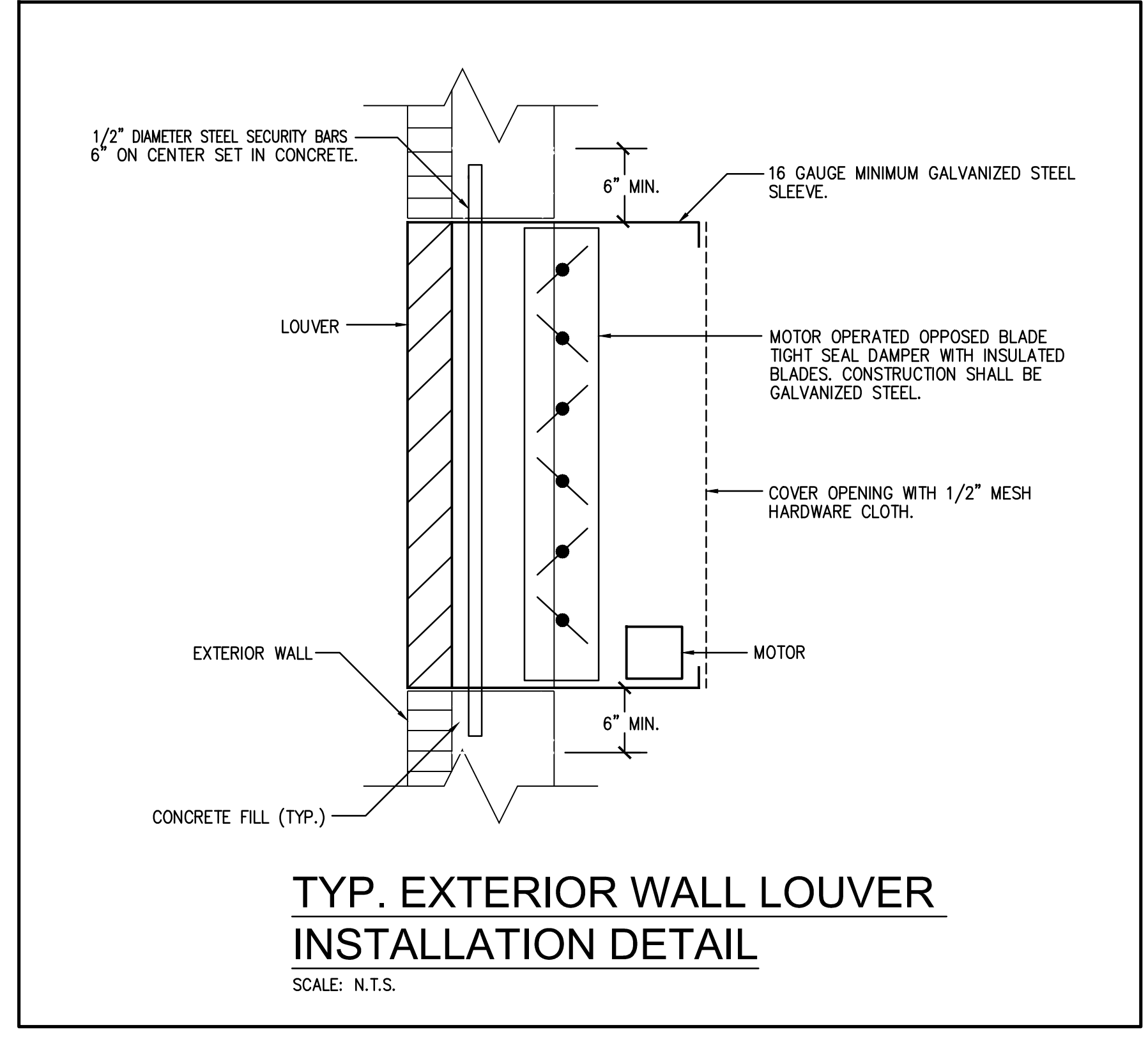


INTAKE HOOD DETAIL
SCALE: N.T.S.



TYPICAL AIR UNIT REFRIGERANT PIPING
SCALE: N.T.S.

- NOTES:**
- PITCH ALL HORIZONTAL LINES A MINIMUM OF 1/2" IN 10 FEET IN THE DIRECTION OF REFRIGERANT FLOW.
 - SIZE AND INSTALL REFRIGERATION PIPING IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
 - MANUFACTURER SHALL SUBMIT A COMPUTER PRINTOUT SHOWING CALCULATED PIPE SIZES, LENGTHS OF RUN, AND ALL OTHER NECESSARY REQUIREMENTS.



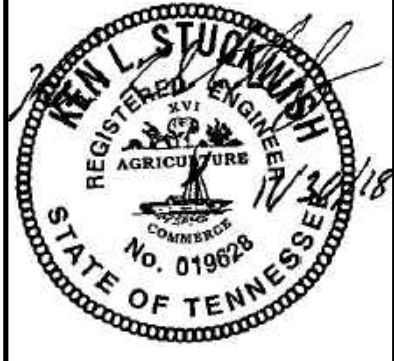
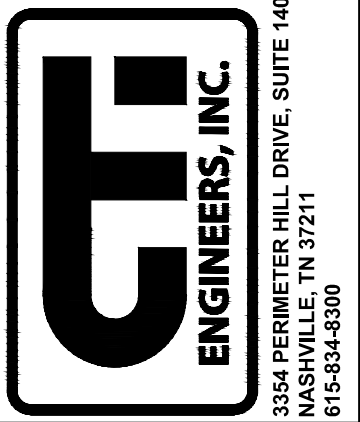
TYP. EXTERIOR WALL LOUVER INSTALLATION DETAIL
SCALE: N.T.S.

DESIGN		REVISIONS	
NO.	DESCRIPTIONS	DATE	BY

DESIGN: KLS
 DRAWN: JAA
 CHECKED: KLS
 APPROVED: KLS

WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

DETAILS - HVAC - 2 OF 2

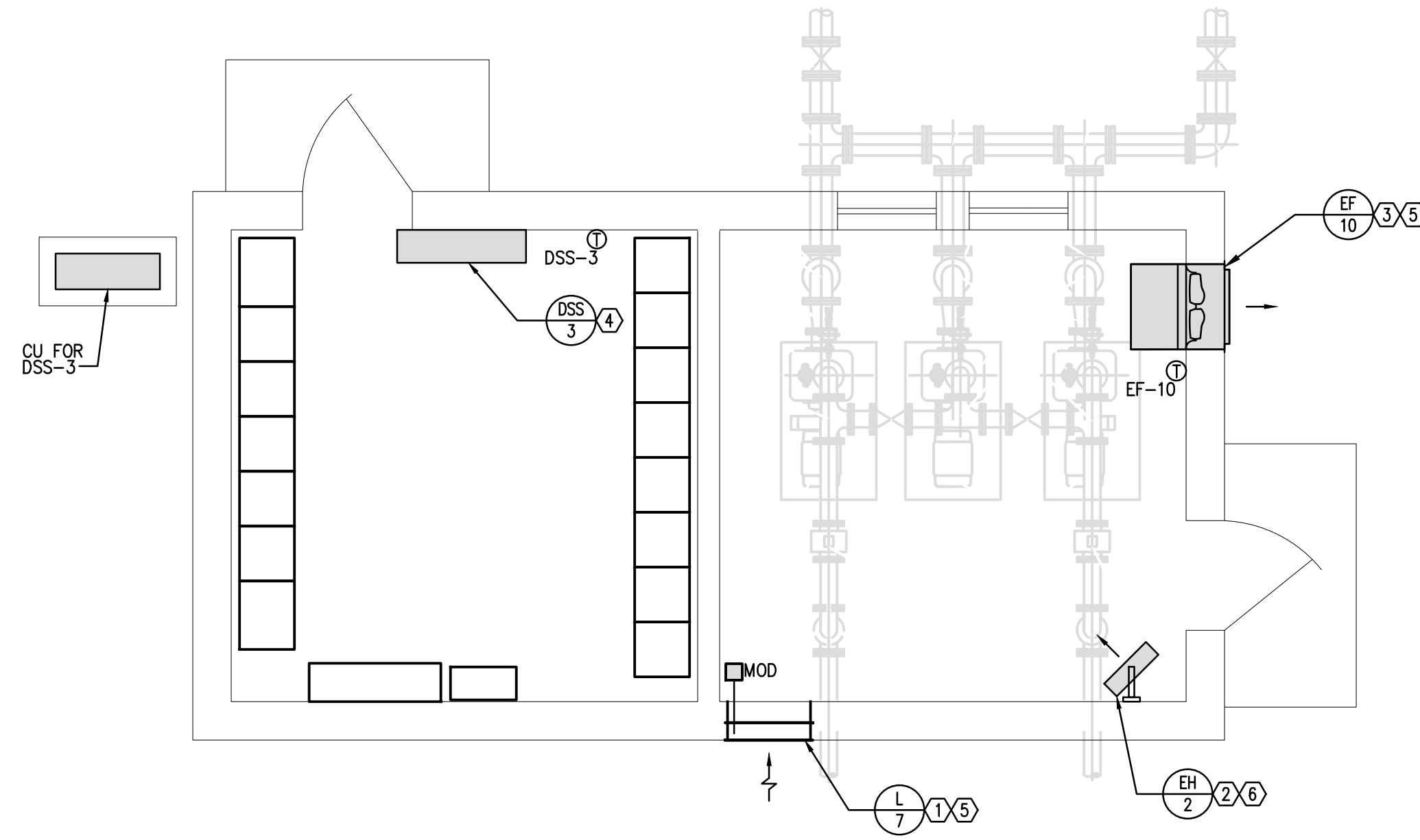


JOB NO.
N16003

ISSUE DATE
November 30, 2018

SCALE
NONE

DRAWING NO.
ME003



SBR INFLUENT PUMP STATION FLOOR PLAN - HVAC

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

GENERAL NOTES:

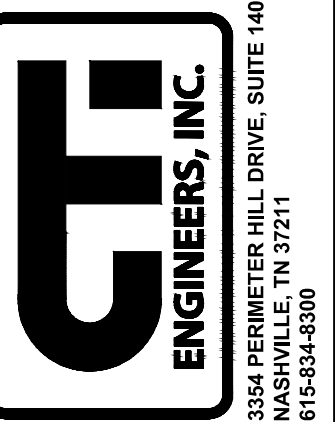
1. COORDINATE WORK WITH ALL OTHER TRADES IN FIELD, INCLUDING STRUCTURAL.
2. MOUNT CONDENSERS ON 6" THICK CONCRETE PADS THAT ARE 6" LARGER THAN UNIT ON ALL SIDES.

NOTES:

- ① MOUNT BOTTOM OF LOUVER AT 18" A.F.F.
- ② MOUNT TOP OF HEATER AT 9'-0" A.F.F.
- ③ MOUNT TOP OF FAN AT 9'-0" A.F.F.
- ④ MOUNT BOTTOM OF DUCTLESS SPLIT SYSTEM INDOOR UNIT AT 4" ABOVE DOOR FRAME.
- ⑤ EF-10 SHALL BE INTERLOCKED WITH LOUVER L-7 SUCH THAT WHEN EF-10 IS ENERGIZED THE MOTOR OPERATED DAMPER IN L-7 SHALL OPEN. WHEN EF-10 IS DEENERGIZED THE REVERSE SHALL OCCUR. EF-10 SHALL BE CONTROLLED BY A WALL MOUNTED THERMOSTAT SUCH THAT ON A RISE IN SPACE TEMPERATURE ABOVE THE SETPOINT OF 85°F (ADJ.) EF-10 SHALL BE ENERGIZED. ON A DROP IN SPACE TEMPERATURE BELOW THE SETPOINT OF 85°F (ADJ.) EF-10 SHALL BE DEENERGIZED.
- ⑥ EH-2 SHALL BE CONTROLLED BY UNIT MOUNTED THERMOSTAT SUCH THAT ON A DROP IN SPACE TEMPERATURE BELOW THE SETPOINT OF 65°F (ADJ.) THE HEATER SHALL BE ENERGIZED. ON A RISE IN SPACE TEMPERATURE ABOVE THE SETPOINT OF 65°F THE HEATER SHALL BE DEENERGIZED.

REVISIONS	NO.	DESCRIPTIONS	DATE	BY	APPD
DESIGN	KLS				
DRAWN	JAA				
CHECKED	KLS				
APPROVED	KLS				

WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06
 SBR INFLUENT PUMP STATION FLOOR PLAN - HVAC



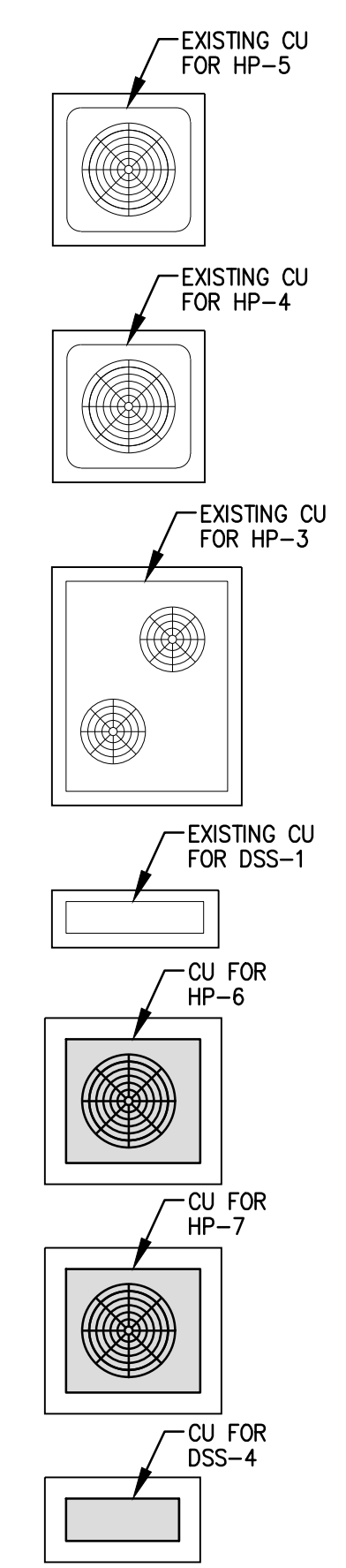
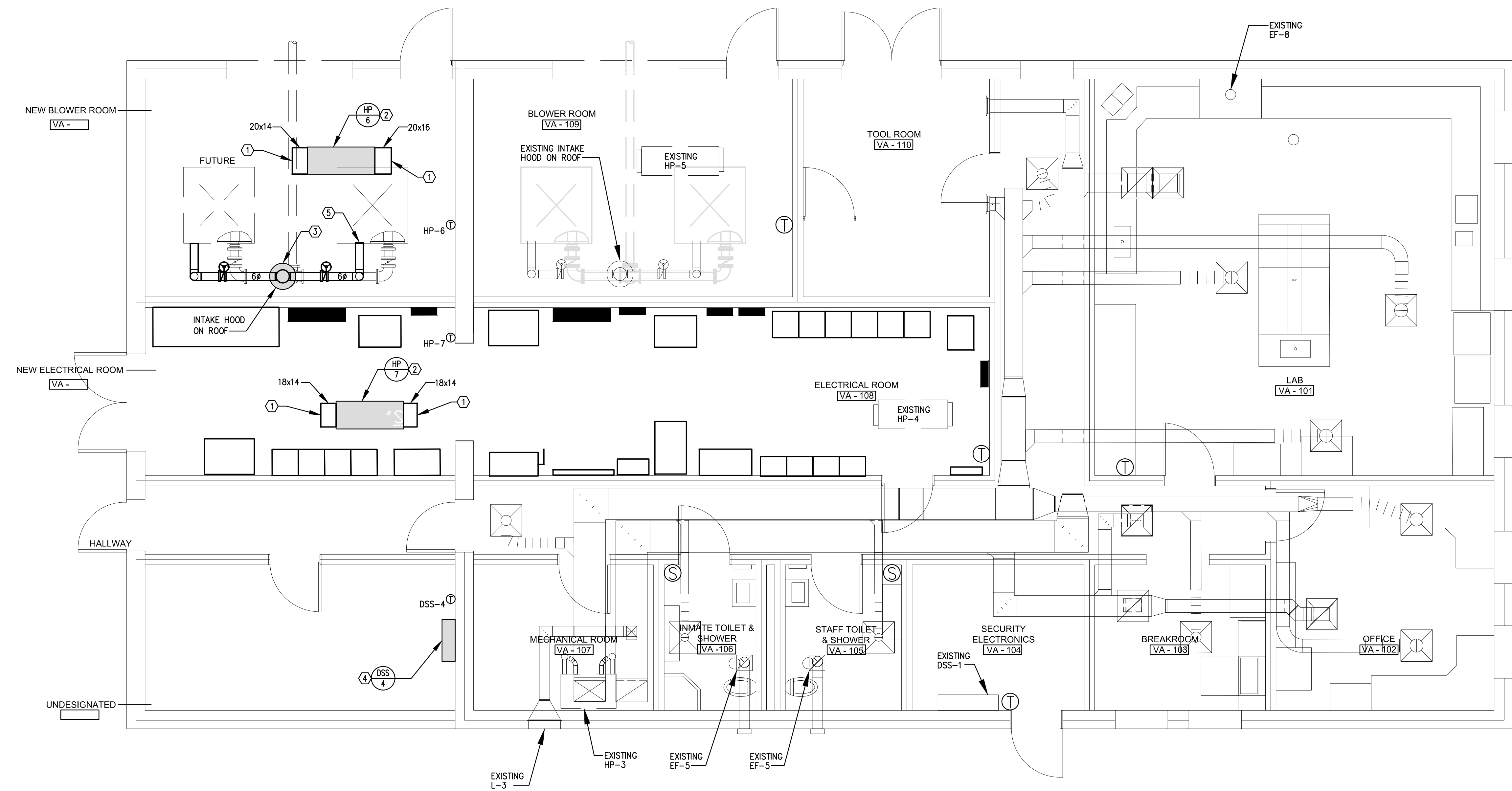
WWR ENGINEERS, INC.
 5417 Ball Camp Pike
 Knoxville, Tn 37921
 Phone: (865) 588-2431
 Fax: (865) 588-2434
West, Welch, Reed Engineers, Inc.
WWR PROJECT# 118057
 THIS DRAWING IS GENERALLY DIAGRAMMATIC AND, EXCEPT WHERE SPECIFICALLY DIMENSIONED OR DETAILED, INDICATES THE GENERAL ARRANGEMENT OF THE WORK. THE CONTRACTOR SHALL INSTALL HIS WORK TO CONFORM AS NEARLY AS POSSIBLE TO THE LOCATIONS AND ARRANGEMENTS SHOWN, WITH ONLY SUCH MINOR ADJUSTMENTS AS NECESSARY TO COORDINATE THE WORK WITH ALL OTHER TRADES TO AVOID INTERFERENCES.

JOB NO.
N16003
 ISSUE DATE
November 30, 2018
 SCALE
1/4"=1'-0"
 DRAWING NO.
ME301

CTI PROJECT: N16003-01 (TN Dept. General Services TDEC) Bledsoe County Correctional Complex DRAWING: CTI - C-007 EXISTING SITE PIPING PLAN SHEET 4 (6/6/04/9/12/3/5/19 1:14PM) LAYOUT: Model

DATE OF PRINT: 3/14/2019 1:48 PM

- GENERAL NOTES:**
- COORDINATE WORK WITH ALL OTHER TRADES IN FIELD, INCLUDING STRUCTURAL.
 - MOUNT CONDENSERS ON 6" THICK CONCRETE PADS THAT ARE 6" LARGER THAN UNIT ON ALL SIDES.
- NOTES:**
- COVER DUCT OPENING WITH $\frac{1}{2} \times \frac{1}{2}$ " WELDED WIRE MESH.
 - SUSPEND HEAT PUMP INDOOR UNITS AT SAME HEIGHT OF EXISTING HEAT PUMP INDOOR UNITS. FIELD VERIFY EXACT HEIGHT.
 - CONNECT 6" PIPE TO EACH BLOWER'S INTAKE. TEE TOGETHER TO COMMON 6" UP TO INTAKE HOOD, COOK MODEL PR-12, ON ROOF. COOK IS BASIS OF DESIGN. ALTERNATES BY GREENHECK OR TWIN CITY WILL BE CONSIDERED.
 - MOUNT TOP OF DUCTLESS INDOOR UNIT AT 9'-0" A.F.F.
 - INSTALL END CAP ON INTAKE DUCT FOR FUTURE CONNECTION TO FUTURE BLOWER.



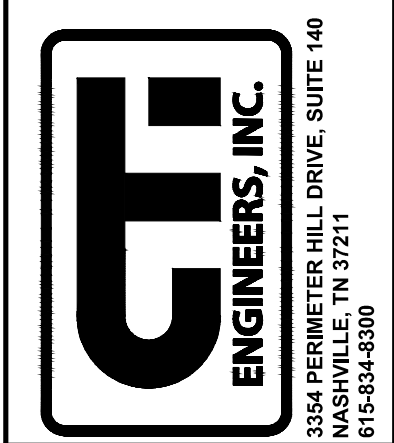
LAB/CONTROLS BUILDING FLOOR PLAN - HVAC
SCALE: 1/4"=1'-0"

REVISIONS		DATE	BY	APPD
NO.	DESCRIPTIONS			

DESIGN	DRAWN	CHECKED	APPROVED
KLS	JAA	KLS	KLS

WASTEWATER TREATMENT PLANT EXPANSION
BLEDSOE COUNTY CORRECTIONAL COMPLEX
PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

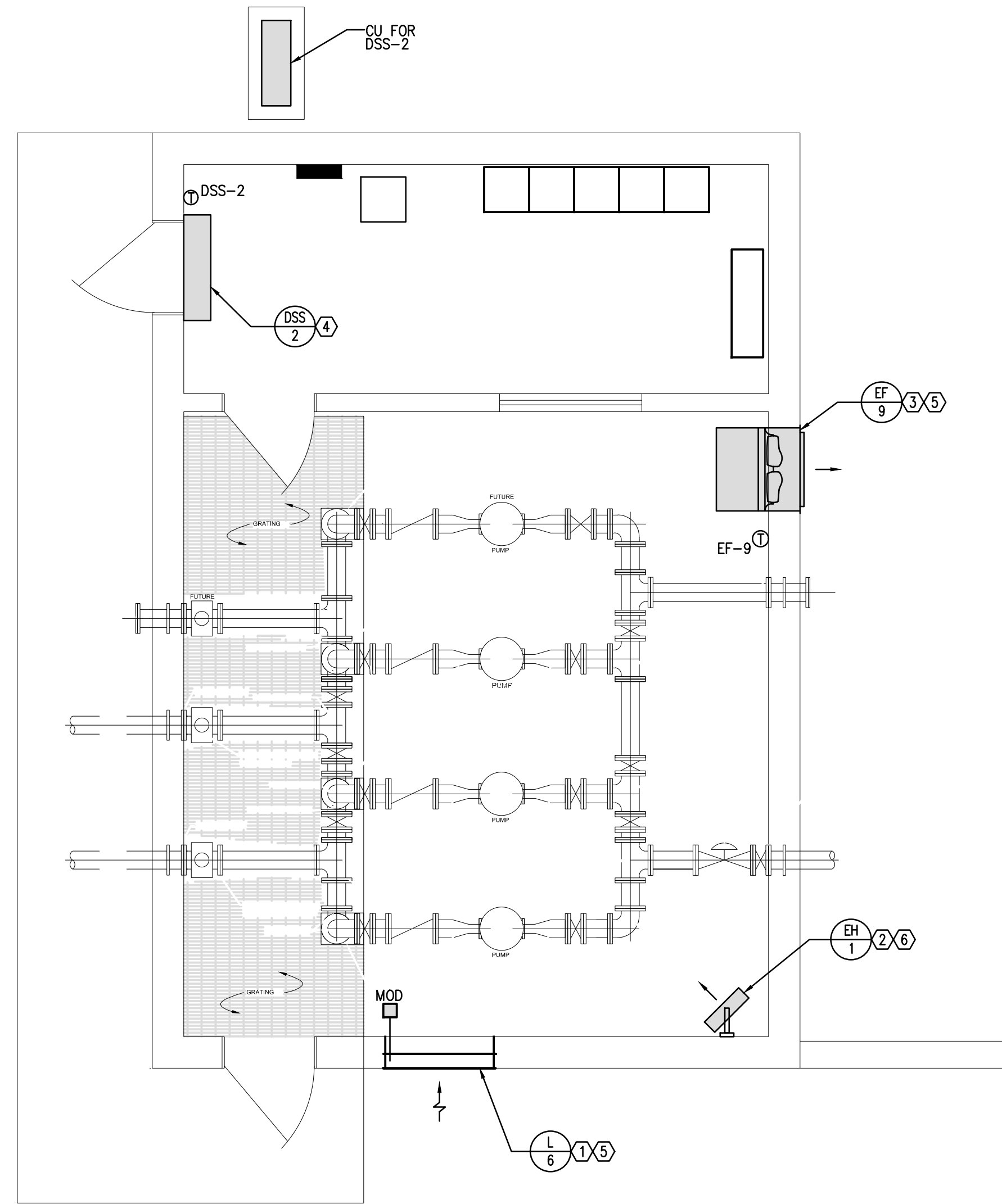
LAB/CONTROL BUILDING FLOOR PLAN - HVAC



WWR ENGINEERS, INC.
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West, Welch, Reed Engineers, Inc.
WWR PROJECT# 118057

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JOB NO. N16003
ISSUE DATE November 30, 2018
SCALE 1/4"=1'-0"
DRAWING NO. ME-901



SPRAY IRRIGATION PUMP STATION - HVAC

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

GENERAL NOTES:

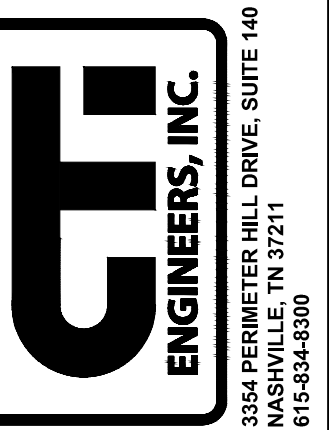
1. COORDINATE WORK WITH ALL OTHER TRADES IN FIELD, INCLUDING STRUCTURAL.
2. MOUNT CONDENSERS ON 6" THICK CONCRETE PADS THAT ARE 6" LARGER THAN UNIT ON ALL SIDES.

NOTES:

- ① MOUNT BOTTOM OF LOUVER AT 18" A.F.F.
- ② MOUNT TOP OF HEATER AT 9'-0" A.F.F.
- ③ MOUNT TOP OF FAN AT 9'-0" A.F.F.
- ④ MOUNT BOTTOM DUCTLESS SPLIT SYSTEM INDOOR UNIT AT 4" ABOVE DOOR FRAME.
- ⑤ EF-9 SHALL BE INTERLOCKED WITH LOUVER L-6 SUCH THAT WHEN EF-9 IS ENERGIZED THE MOTOR OPERATED DAMPER IN L-6 SHALL OPEN. WHEN EF-9 IS DEENERGIZED THE REVERSE SHALL OCCUR. EF-9 SHALL BE CONTROLLED BY A WALL MOUNTED THERMOSTAT SUCH THAT ON A RISE IN SPACE TEMPERATURE ABOVE THE SETPOINT OF 85°F (ADJ.) EF-9 SHALL BE ENERGIZED. ON A DROP IN SPACE TEMPERATURE BELOW THE SETPOINT OF 85°F (ADJ.) EF-9 SHALL BE DEENERGIZED.
- ⑥ EH-1 SHALL BE CONTROLLED BY UNIT MOUNTED THERMOSTAT SUCH THAT ON A DROP IN SPACE TEMPERATURE BELOW THE SETPOINT OF 65°F (ADJ.) THE HEATER SHALL BE ENERGIZED. ON A RISE IN SPACE TEMPERATURE ABOVE THE SETPOINT OF 65°F THE HEATER SHALL BE DEENERGIZED.

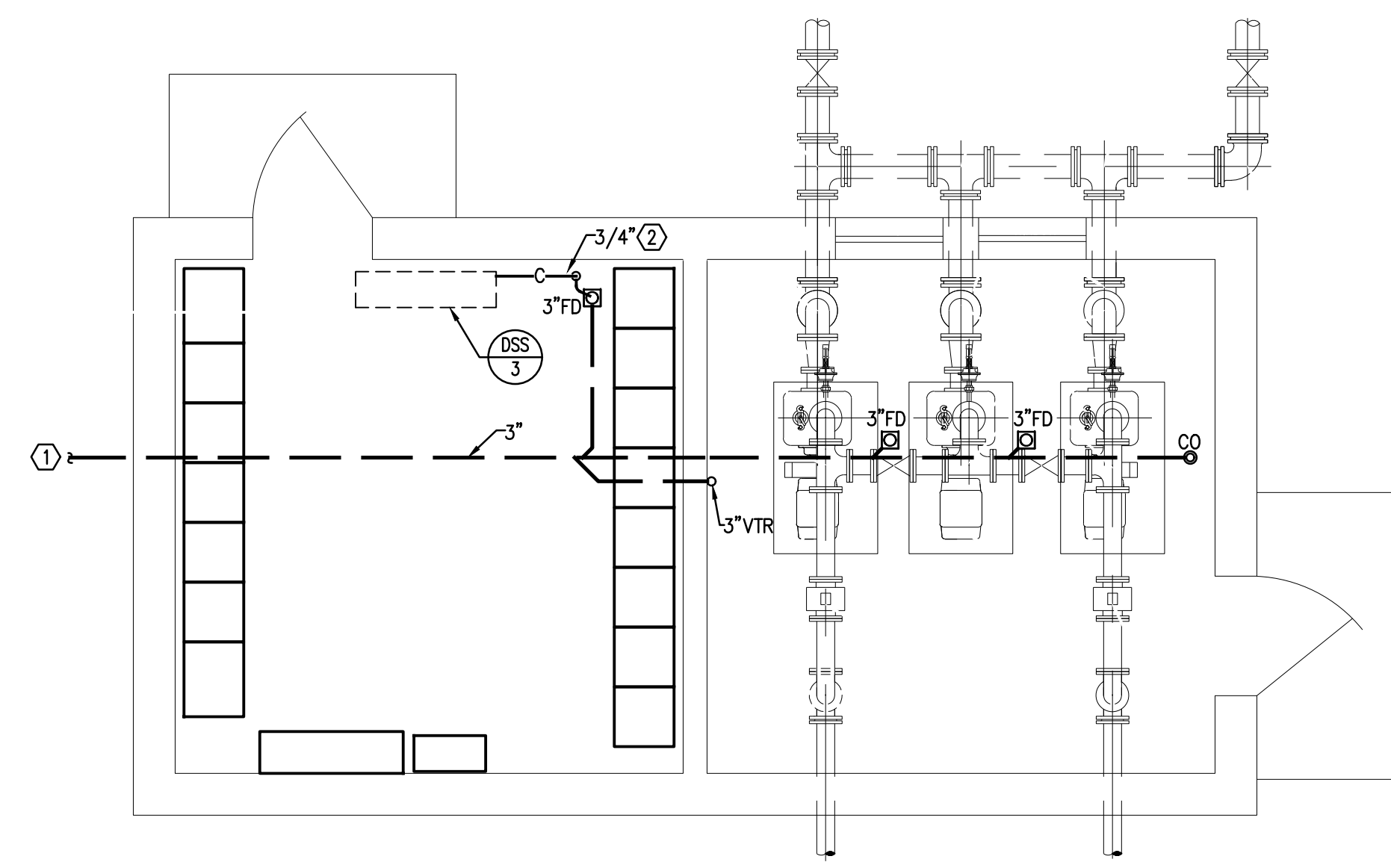
DESIGN KLS	REVISIONS		DATE	BY	APPD
	NO.	DESCRIPTIONS			
DRAWN JAA					
CHECKED KLS					
APPROVED KLS					

WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SEC PROJECT 142/013-01-2013-06
 SPRAY IRRIGATION PUMP STATION - HVAC



WWR ENGINEERS, INC.
 5417 Bell Camp Pike
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 Phone: (865) 588-2431
 Fax: (865) 588-2434
West, Welch, Reed Engineers, Inc.
WWR PROJECT# 118057
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JOB NO. N16003
ISSUE DATE November 30, 2018
SCALE 1/4"=1'-0"
DRAWING NO. ME-1201



SBR INFLUENT PUMP STATION FLOOR PLAN - FLOOR DRAINS

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

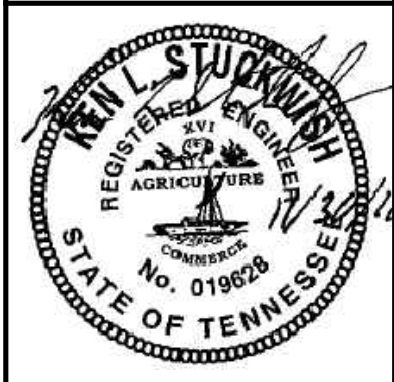
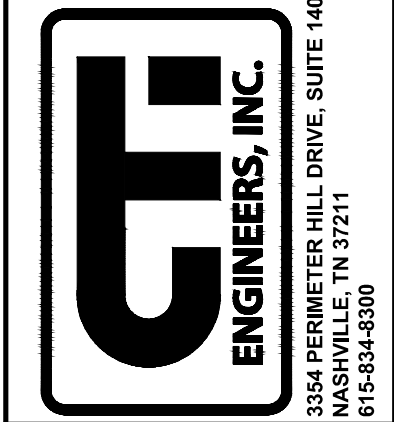
- GENERAL NOTES:**
1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL BUILDING CODES.
 2. ROUTE ALL WASTE PIPING BELOW GRADE. COORDINATE ROUTING WITH ALL OTHER TRADES.
 3. ROUTE ALL VENT PIPING AS HIGH AS POSSIBLE ABOVE CEILING. COORDINATE ROUTING WITH ALL OTHER DISCIPLINES.
 4. INSTALL TRAP GUARDS ON ALL FLOOR DRAINS.
 5. ALL CONCRETE FLOORS ARE TO PROVIDE POSITIVE DRAINAGE TO THE NEW FLOOR DRAINS. PONDING WATER IS AN UNACCEPTABLE FINISH CONDITION AND WILL REQUIRE REMEDIAL WORK BY THE CONTRACTOR TO PROVIDE POSITIVE DRAINAGE AT NO ADDITIONAL COST TO THE OWNER.

- NOTES:**
- ① ROUTE TO SANITARY SEWER MANHOLE C. VERIFY EXACT LOCATION AND CONNECTIONS IN FIELD.
 - ② ROUTE CONDENSATE DRAIN FROM DSS TO FLOOR DRAIN AS SHOWN.

REVISIONS		DATE	BY	APPD
NO.	DESCRIPTIONS			

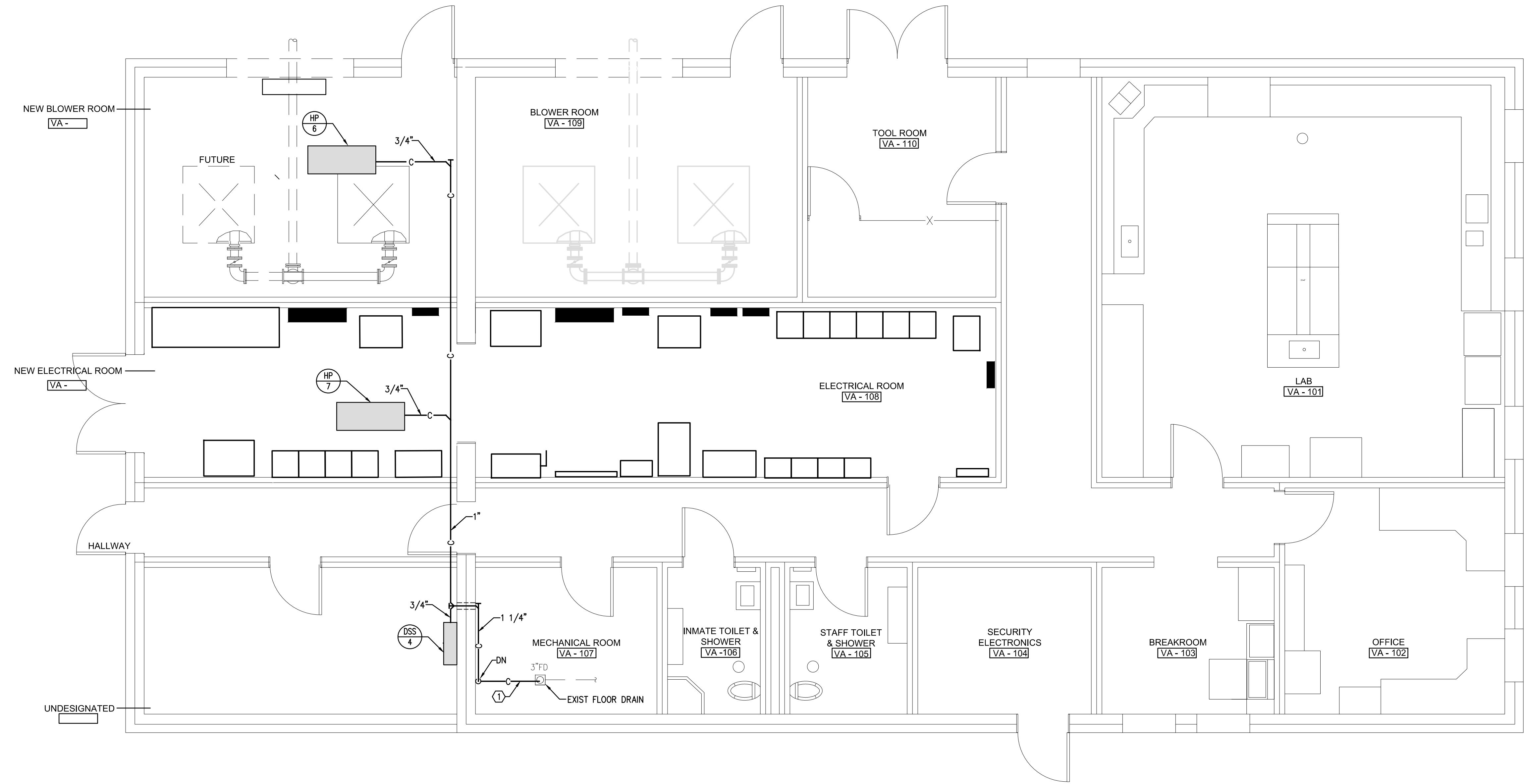
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BS	BS	KLS	KLS

WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06
 SBR INFLUENT PUMP STATION FLOOR PLAN -
 FLOOR DRAINS



WWR ENGINEERS, INC.
 5417 Ball Camp Pike
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WWR PROJECT# 118057
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JOB NO. N16003
ISSUE DATE November 30, 2018
SCALE 1/4"=1'-0"
DRAWING NO. P301



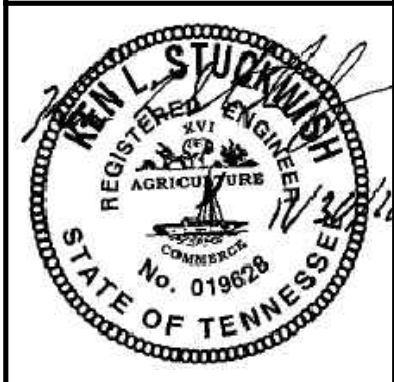
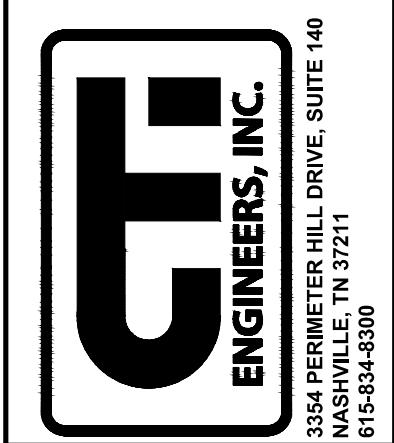
- GENERAL NOTES:**
1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL BUILDING CODES.
 2. ROUTE ALL WASTE PIPING BELOW GRADE. COORDINATE ROUTING WITH ALL OTHER TRADES.
 3. ALL CONCRETE FLOORS ARE TO PROVIDE POSITIVE DRAINAGE TO THE NEW FLOOR DRAINS. PONDING WATER IS AN UNACCEPTABLE FINISH CONDITION AND WILL REQUIRE REMEDIAL WORK BY THE CONTRACTOR TO PROVIDE POSITIVE DRAINAGE AT NO ADDITIONAL COST TO THE OWNER.
- NOTES:**
- ① ROUTE CONDENSATE FROM HP UNITS TO EXISTING FLOOR DRAIN AS SHOWN.

REVISIONS		DATE	BY	APPD
NO.	DESCRIPTIONS			

DESIGN: BS
 DRAWN: BS
 CHECKED: KLS
 APPROVED: KLS

WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

LAB/CONTROLS BUILDING FLOOR PLAN -
 FLOOR DRAINS



LAB/CONTROLS BUILDING FLOOR PLAN - FLOOR DRAINS

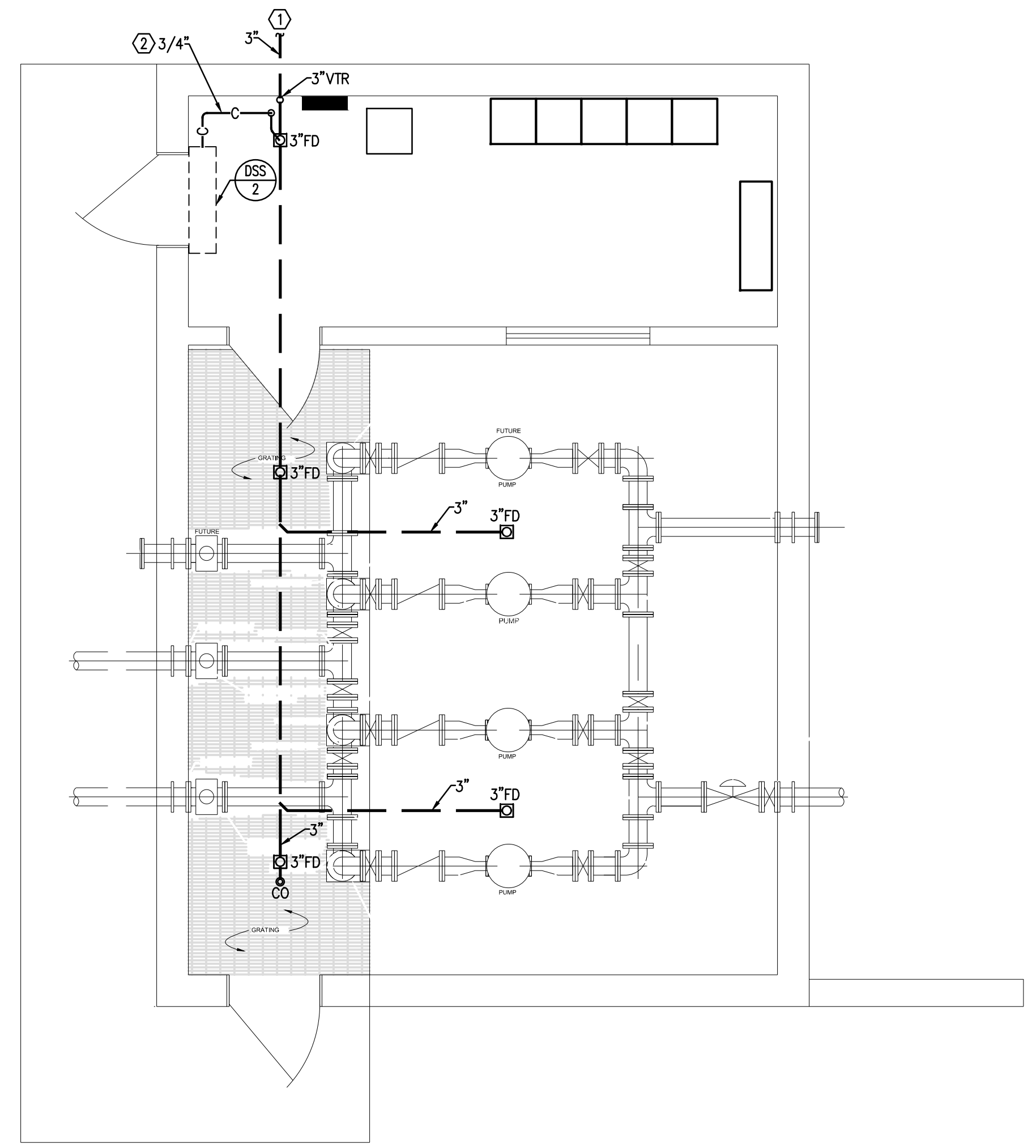
SCALE: 1/4"=1'-0"

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JOB NO.	N16003
ISSUE DATE	November 30, 2018
SCALE	1/4"=1'-0"
DRAWING NO.	P-901



SPRAY IRRIGATION PUMP STATION - FLOOR DRAINS

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

GENERAL NOTES:

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL BUILDING CODES.
2. ROUTE ALL WASTE PIPING BELOW GRADE. COORDINATE ROUTING WITH ALL OTHER TRADES.
3. ROUTE ALL VENT PIPING AS HIGH AS POSSIBLE ABOVE CEILING. COORDINATE ROUTING WITH ALL OTHER DISCIPLINES.
4. INSTALL TRAP GUARDS ON ALL FLOOR DRAINS.
5. ALL CONCRETE FLOORS ARE TO PROVIDE POSITIVE DRAINAGE TO THE NEW FLOOR DRAINS. PONDING WATER IS AN UNACCEPTABLE FINISH CONDITION AND WILL REQUIRE REMEDIAL WORK BY THE CONTRACTOR TO PROVIDE POSITIVE DRAINAGE AT NO ADDITIONAL COST TO THE OWNER.

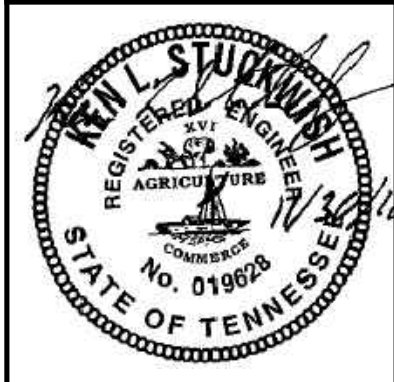
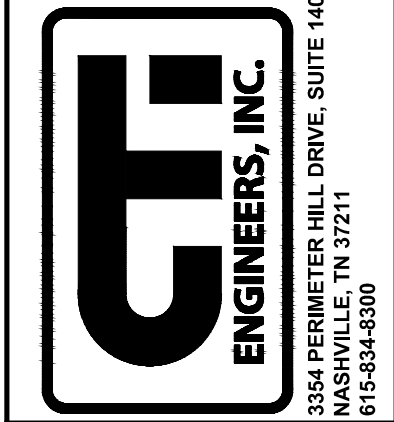
NOTES:

- ① ROUTE TO GRADE. VERIFY EXACT LOCATION AND CONNECTIONS IN FIELD. INSTALL HEADWALL, FLAP VALVE AND INSECT SCREEN.
- ② ROUTE CONDENSATE DRAIN FROM DSS TO FLOOR DRAIN AS SHOWN.

REVISIONS		DATE	BY	APPD
NO.	DESCRIPTIONS			

DESIGN	BS	DRAWN	BS	CHECKED	KLS	APPROVED	KLS

WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06
 SPRAY IRRIGATION PUMP STATION -
 PLUMBING



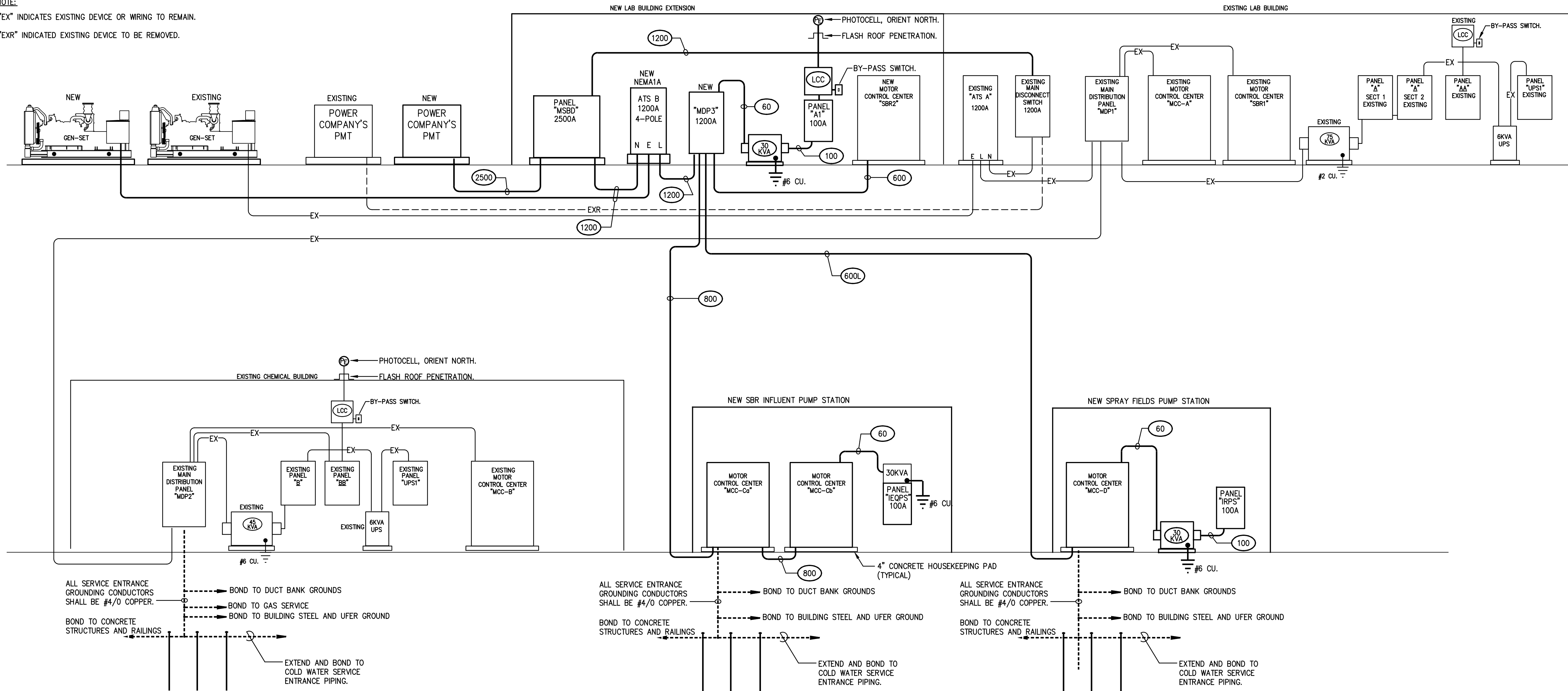
WWR ENGINEERS, INC.
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 Knoxville, TN 37921
 Phone: (865) 588-2431
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JOB NO. N16003
ISSUE DATE November 30, 2018
SCALE 1/4"=1'-0"
DRAWING NO. P-1201

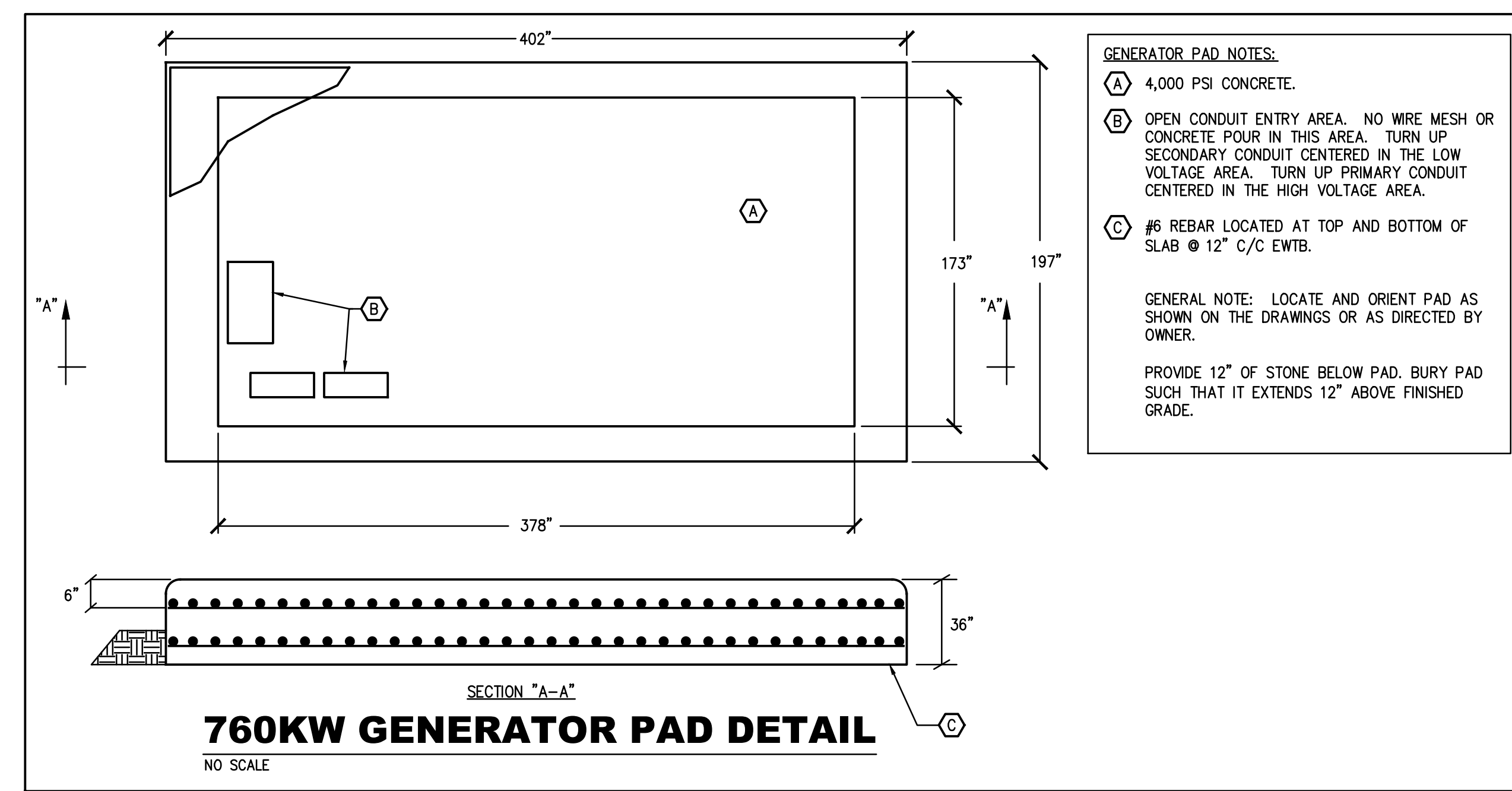
CTI PROJECT: N16003-01 (TN Dept. General Services IDEC) Bledsoe County Correctional Complex, DRAWING: CTI-C-007 EXISTING SITE PIPING PLAN SHEET 4 (688049v12/11/2018 11:52AM) LAYOUT: Model

NOTE:
 "EX" INDICATES EXISTING DEVICE OR WIRING TO REMAIN.
 "EXR" INDICATED EXISTING DEVICE TO BE REMOVED.



KEY:

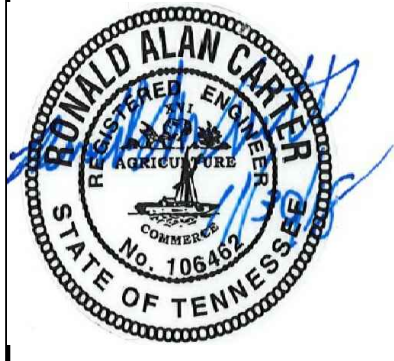
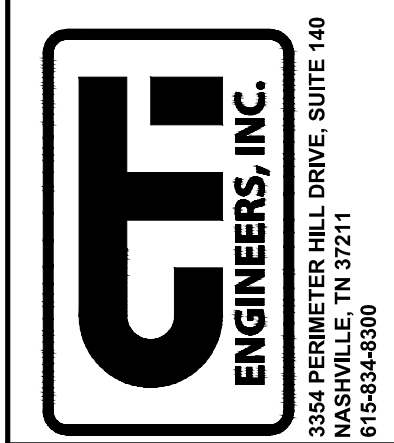
60	3#6, 1#8G, 1 1/4" C.
100	4#3, 1#8G, 1-1/4" C.
600	TWO 3" CONDUITS EACH WITH 4#350MCM, 1#1G.
600L	TWO 4" CONDUITS EACH WITH 4#500MCM, 1#1/0G.
800	THREE 4" CONDUITS EACH WITH 4#400MCM, 1#2/0G.
1200	FOUR 3" CONDUITS EACH WITH 4#350MCM, 1#3/0G.
2500	SEVEN 4" CONDUITS EACH WITH 4#500MCM
30KVA	30 KVA DRY TYPE TRANSFORMER 480V. 3Ø, 3-WIRE PRIMARY, 120/208V. 3Ø, 4-WIRE SECONDARY.
LCC	LIGHTING CONTACTOR CABINET. REFER TO OUTSIDE LIGHTING CONTROL DIAGRAM



NO.	REVISIONS DESCRIPTIONS	DATE	BY	APPD
RAC	RAC	JCM	RAC	RAC

WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

FEEDER DIAGRAM



WWR ENGINEERS, INC.
 5417 Ball Camp Pike
 Knoxville, Tn 37921
 Phone: (865) 588-2431
 Fax: (865) 588-2434
West, Welch, Reed Engineers, Inc.
WWR PROJECT# 118057

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JOB NO.
N16003

ISSUE DATE
November 30, 2018

SCALE
NONE

DRAWING NO.
E002

DATE OF PRINT: 3/14/2019 2:24 PM

"BB" PANEL DESIGNATION. RATING: 200 AMPS. VOLTAGE: 480Y/277. MAIN: LUGS. MOUNTING: SURFACE. PHASE: 3 WIRE: 4 ENCLASURE: NEMA 1. SCRR: 42,000 AIC. SIZE (WxD): 20"x6". FEEDER: SEE RISER DIAGRAM. LOAD SUMMARY: #A: 14.9 KW, #B: 18.8 KW, #C: 17.4 KW. TOTAL: 51.1 KW. EXISTING PANEL: INSTALL NEW BREAKERS AS INDICATED BY (**). TABLE with columns: LOAD DESCRIPTION, BKR, KW, A B C, KW, BKR, LOAD DESCRIPTION.

NOTE: PROVIDE IN SEPARATE ENCLOSURE ADJACENT TO PANEL "BB" A 20AMP, 4-POLE LIGHTING CONTACTOR TO CONTROL EXTERIOR LIGHTING CIRCUITS. CONTACTOR TO BE CONTROLLED BY PHOTO-CELL.

"A1" PANEL DESIGNATION. RATING: 100 AMPS. VOLTAGE: 208Y/120. MAIN: BREAKER. MOUNTING: SURFACE. PHASE: 3 WIRE: 4 ENCLASURE: NEMA 1. SCRR: 42,000 AIC. SIZE (WxD): 20"x6". FEEDER: SEE RISER DIAGRAM. LOAD SUMMARY: #A: 6.3 KW, #B: 3.8 KW, #C: 4.4 KW. TOTAL: 14.5 KW. (GFI) INDICATES GFI BREAKER. TABLE with columns: LOAD DESCRIPTION, BKR, KW, A B C, KW, BKR, LOAD DESCRIPTION.

NOTE: PROVIDE IN SEPARATE ENCLOSURE ADJACENT TO PANEL "A1" A 20AMP, 4-POLE LIGHTING CONTACTOR TO CONTROL EXTERIOR LIGHTING CIRCUITS A1-4,10 AND SPARES. CONTACTOR TO BE CONTROLLED BY PHOTO CELL.

UPS1 PANEL DESIGNATION. RATING: 40 AMPS. VOLTAGE: 120/208. MAIN: BREAKER. MOUNTING: SURFACE. PHASE: 1 WIRE: 3 ENCLASURE: NEMA 1. SCRR: 10,000 AIC. SIZE (WxD): 20"x6". FEEDER: SEE RISER DIAGRAM. LOAD SUMMARY: #A: 2 KW, #B: 1 KW. TOTAL: 3 KW. EXISTING PANEL: INSTALL NEW BREAKERS AS INDICATED BY (**). TABLE with columns: LOAD DESCRIPTION, BKR, KW, A B, KW, BKR, LOAD DESCRIPTION.

"B" PANEL DESIGNATION. RATING: 225 AMPS. VOLTAGE: 208Y/120. MAIN: BREAKER. MOUNTING: SURFACE. PHASE: 3 WIRE: 4 ENCLASURE: NEMA 1. SCRR: 42,000 AIC. SIZE (WxD): 20"x6". FEEDER: SEE RISER DIAGRAM. LOAD SUMMARY: #A: 8.5 KW, #B: 8.8 KW, #C: 8.8 KW. TOTAL: 26.1 KW. (GFI) INDICATES GFI BREAKER. TABLE with columns: LOAD DESCRIPTION, BKR, KW, A B C, KW, BKR, LOAD DESCRIPTION.

"MDP2" PANEL DESIGNATION. RATING: 600 AMPS. VOLTAGE: 480Y/277. MAIN: BREAKER. MOUNTING: SURFACE. PHASE: 3 WIRE: 4 ENCLASURE: NEMA 1. SCRR: 42,000 AIC. SIZE (WxD): 42"x10". FEEDER: SEE RISER DIAGRAM. LOAD SUMMARY: #A: 91.7 KW, #B: 95.9 KW, #C: 96.5 KW. TOTAL: 284.1 KW. EXISTING PANEL: INSTALL NEW BREAKERS AS INDICATED BY (**). TABLE with columns: LOAD DESCRIPTION, BKR, KW, A B C, KW, BKR, LOAD DESCRIPTION.

"MSBD" PANEL DESIGNATION. RATING: 2500 AMPS. VOLTAGE: 480Y/277. MAIN: BREAKER. MOUNTING: SURFACE. PHASE: 3 WIRE: 4 ENCLASURE: NEMA 1. SCRR: 65,000 AIC. SIZE (WxD): 7"x30". FEEDER: SEE RISER DIAGRAM. LOAD SUMMARY: #A: 539.0 KW, #B: 539.0 KW, #C: 539.0 KW. TOTAL: 1617.0 KW. LSIG MAIN BREAKER. SERVICE ENTRANCE RATED WITH INTEGRAL TVSS 160KA. TABLE with columns: LOAD DESCRIPTION, BKR, KW, A B C, KW, BKR, LOAD DESCRIPTION.

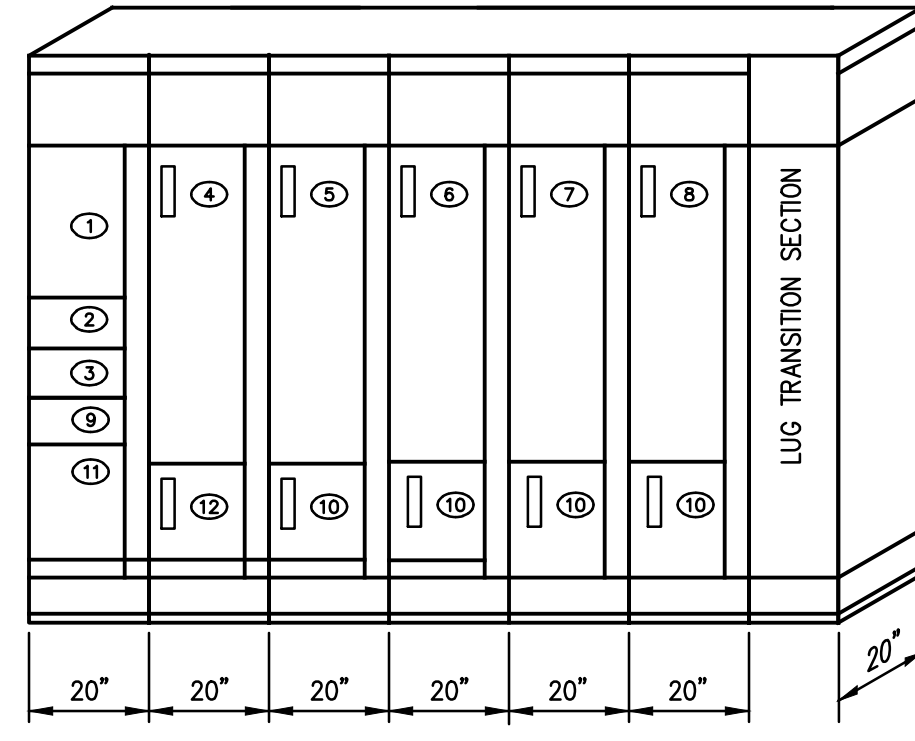
"MDP3" PANEL DESIGNATION. RATING: 1200 AMPS. VOLTAGE: 480Y/277. MAIN: BREAKER. MOUNTING: SURFACE. PHASE: 3 WIRE: 4 ENCLASURE: NEMA 1. SCRR: 42,000 AIC. SIZE (WxD): 42"x10". FEEDER: SEE RISER DIAGRAM. LOAD SUMMARY: #A: 291.1 KW, #B: 291.1 KW, #C: 291.1 KW. TOTAL: 873.3 KW. TABLE with columns: LOAD DESCRIPTION, BKR, KW, A B C, KW, BKR, LOAD DESCRIPTION.

IRPS PANEL DESIGNATION. RATING: 100 AMPS. VOLTAGE: 208Y/120. MAIN: BREAKER. MOUNTING: SURFACE. PHASE: 3 WIRE: 4 ENCLASURE: NEMA 1. SCRR: 10,000 AIC. SIZE (WxD): 20"x6". FEEDER: SEE RISER DIAGRAM. LOAD SUMMARY: #A: 3.7 KW, #B: 1.7 KW, #C: 2.2 KW. TOTAL: 7.6 KW. (GFI) INDICATES GFI BREAKER. TABLE with columns: LOAD DESCRIPTION, BKR, KW, A B C, KW, BKR, LOAD DESCRIPTION.

IEQPS PANEL DESIGNATION. RATING: 100 AMPS. VOLTAGE: 208Y/120. MAIN: BREAKER. MOUNTING: SURFACE. PHASE: 3 WIRE: 4 ENCLASURE: NEMA 1. SCRR: 10,000 AIC. SIZE (WxD): 20"x6". FEEDER: SEE RISER DIAGRAM. LOAD SUMMARY: #A: 3.3 KW, #B: 0.5 KW, #C: 1.3 KW. TOTAL: 5.8 KW. (GFI) INDICATES GFI BREAKER. TABLE with columns: LOAD DESCRIPTION, BKR, KW, A B C, KW, BKR, LOAD DESCRIPTION.

WASTEWATER TREATMENT PLANT EXPANSION BLED SOE COUNTY CORRECTIONAL COMPLEX. DESIGN: RAC, DRAWN: JCM, CHECKED: RAC, APPROVED: RAC. REVISIONS: NO, DATE, BY, APPD. PANEL SCHEDULES. ENGINEERS, INC. 3354 PENNINGER HILL DRIVE, SUITE 140, KNOXVILLE, TN 37921. 878-844380. JOB NO. N16003. ISSUE DATE: November 30, 2018. SCALE: NO SCALE. DRAWING NO. E003.

WWR ENGINEERS INC. 5417 Ball Camp Pike Knoxville, Tn 37921 Phone: (865) 588-2431 Fax: (865) 588-2434 West, Welch, Reed Engineers, Inc. WWR PROJECT# 118057. THIS DRAWING IS GENERALLY DIAGRAMMATIC AND, EXCEPT WHERE SPECIFICALLY DIMENSIONED OR DETAILED, INDICATES THE GENERAL ARRANGEMENT OF THE WORK. THE CONTRACTOR SHALL INSTALL HIS WORK TO CONFORM AS NEARLY AS POSSIBLE TO THE LOCATIONS AND ARRANGEMENTS SHOWN, WITH ONLY SUCH MINOR ADJUSTMENTS AS NECESSARY TO COORDINATE THE WORK WITH ALL OTHER TRADES TO AVOID INTERFERENCES.



800-AMP MAIN BREAKER, 800-AMP BUS, 480-VOLTS, 3Ø, 4W
TOP-ENTRY NEMA 12 ENCLOSURE.

MOTOR CONTROL CENTER DETAIL FOR MCC "Ca"

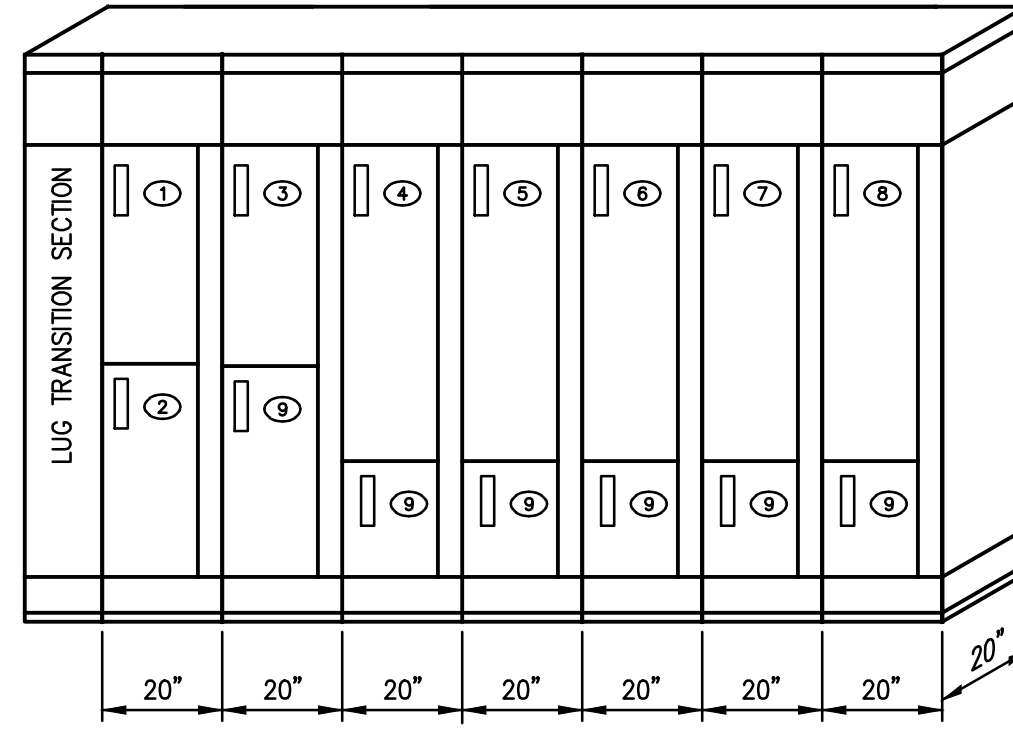
SCALE: NONE

MOTOR CONTROL CENTER NOTES:

- 1) EACH MOTOR DISCONNECT SHALL BE CAPABLE OF BEING LOCKED IN THE OPEN POSITION.
- 2) STARTERS SHALL BE FULL-VOLTAGE, NON-REVERSING WITH MOTOR CIRCUIT PROTECTOR, UNLESS NOTED OTHERWISE.
- 3) MOTOR CONTROL CENTERS SHALL BE SQUARE D, ALLEN BRADLEY OR EQUAL.
- 4) MOTOR CONTROL CENTER SHALL BE RATED 42,000-AIC MINIMUM.
- 5) ONLY THE STARTERS IN THE M.C.C. SHALL BE PROVIDED BY SECTION 26. OTHER STARTERS PROVIDED BY OTHER TRADES.

MOTOR CONTROL CENTER DETAIL NOTES:

- ① MAIN BREAKER
- ② METER
- ③ TVSS 160KA
- ④ DIGESTER BLOWER #1, 20HP, SOFT START WITH BYPASS
- ⑤ DIGESTER BLOWER #2, 20HP, SOFT START WITH BYPASS
- ⑥ DIGESTER BLOWER #3, 20HP, SOFT START WITH BYPASS
- ⑦ DIGESTER PUMP #1, 25HP, SOFT START WITH BYPASS
- ⑧ DIGESTER PUMP #2, 25HP, SOFT START WITH BYPASS
- ⑨ 50/3 BREAKER FOR PANEL IEQPS
- ⑩ PREPARED SPACE
- ⑪ TWO 20/3 BREAKERS FOR HEATERS
- ⑫ TWO 20/3 BREAKERS FOR DIGESTER DECATERS



800-AMP MAIN BREAKER, 800-AMP BUS, 480-VOLTS, 3Ø, 4W
TOP-ENTRY NEMA 12 ENCLOSURE.

MOTOR CONTROL CENTER DETAIL FOR MCC "Cb"

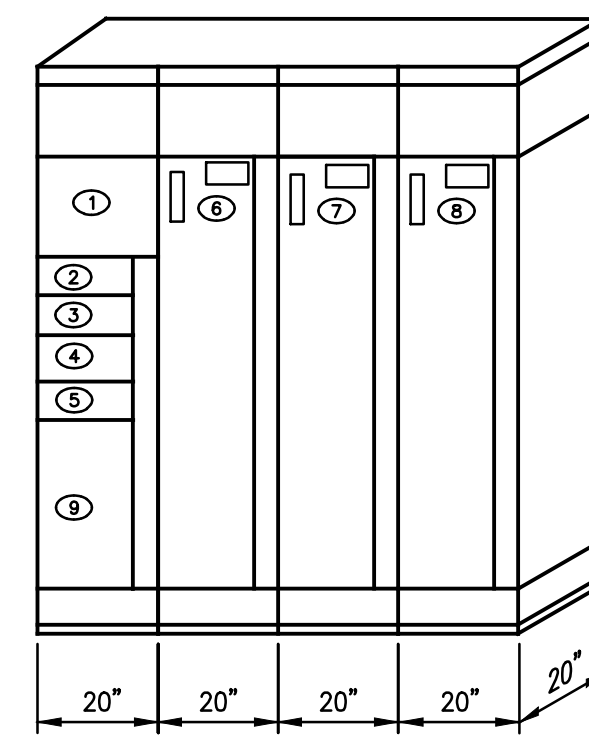
SCALE: NONE

MOTOR CONTROL CENTER NOTES:

- 1) EACH MOTOR DISCONNECT SHALL BE CAPABLE OF BEING LOCKED IN THE OPEN POSITION.
- 2) STARTERS SHALL BE FULL-VOLTAGE, NON-REVERSING WITH MOTOR CIRCUIT PROTECTOR, UNLESS NOTED OTHERWISE.
- 3) MOTOR CONTROL CENTERS SHALL BE SQUARE D, ALLEN BRADLEY OR EQUAL.
- 4) MOTOR CONTROL CENTER SHALL BE RATED 42,000-AIC MINIMUM.
- 5) ONLY THE STARTERS IN THE M.C.C. SHALL BE PROVIDED BY SECTION 26. OTHER STARTERS PROVIDED BY OTHER TRADES.

MOTOR CONTROL CENTER DETAIL NOTES:

- ① INFLUENT EQ PUMP #1, 15HP, VFD WITH BYPASS, 3% LINE REACTOR
- ② INFLUENT EQ PUMP #2, 15HP, VFD WITH BYPASS, 3% LINE REACTOR
- ③ INFLUENT EQ PUMP #3, 15HP, VFD WITH BYPASS, 3% LINE REACTOR
- ④ INFLUENT EQ TANK BLOWER #1, 20HP, SOFT START WITH BYPASS
- ⑤ INFLUENT EQ TANK BLOWER #2, 20HP, SOFT START WITH BYPASS
- ⑥ INFLUENT EQ TANK BLOWER #3, 20HP, SOFT START WITH BYPASS
- ⑦ INFLUENT EQ TANK JET PUMP #1, 25HP, SOFT START WITH BYPASS
- ⑧ INFLUENT EQ TANK JET PUMP #2, 25HP, SOFT START WITH BYPASS
- ⑨ PREPARED SPACE



600-AMP MAIN BREAKER, 600-AMP BUS, 480-VOLTS, 3Ø, 4W
BOTTOM -ENTRY NEMA 1A ENCLOSURE.

MOTOR CONTROL CENTER DETAIL FOR MCC "D"

SCALE: NONE

MOTOR CONTROL CENTER NOTES:

- 1) EACH MOTOR DISCONNECT SHALL BE CAPABLE OF BEING LOCKED IN THE OPEN POSITION.
- 2) STARTERS SHALL BE FULL-VOLTAGE, NON-REVERSING WITH MOTOR CIRCUIT PROTECTOR, UNLESS NOTED OTHERWISE.
- 3) MOTOR CONTROL CENTERS SHALL BE SQUARE D, ALLEN BRADLEY OR EQUAL.
- 4) MOTOR CONTROL CENTER SHALL BE RATED 42,000-AIC MINIMUM.
- 5) ONLY THE STARTERS IN THE M.C.C. SHALL BE PROVIDED BY SECTION 26. OTHER STARTERS PROVIDED BY OTHER TRADES.

MOTOR CONTROL CENTER DETAIL NOTES:

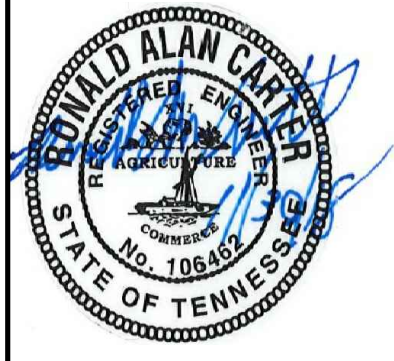
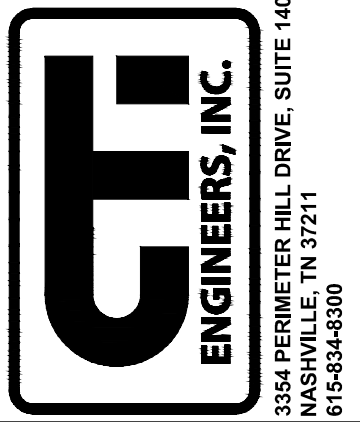
- ① MAIN BREAKER
- ② METER
- ③ TVSS 160KA
- ④ 50/3 BREAKER FOR PANEL IRPS
- ⑤ TWO 20/3 FOR HEATERS
- ⑥ IRRIGATION PUMP #1 60HP SOFT START WITH BYPASS
- ⑦ IRRIGATION PUMP #2 60HP SOFT START WITH BYPASS
- ⑧ IRRIGATION PUMP #3 60HP SOFT START WITH BYPASS
- ⑨ PREPARED SPACE

NO.	REVISIONS DESCRIPTIONS	DATE	BY	APPD

DESIGN	RAC	DRAWN	JCM	CHECKED	RAC	APPROVED	RAC

WASTEWATER TREATMENT PLANT EXPANSION
BLEDSOE COUNTY CORRECTIONAL COMPLEX
PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

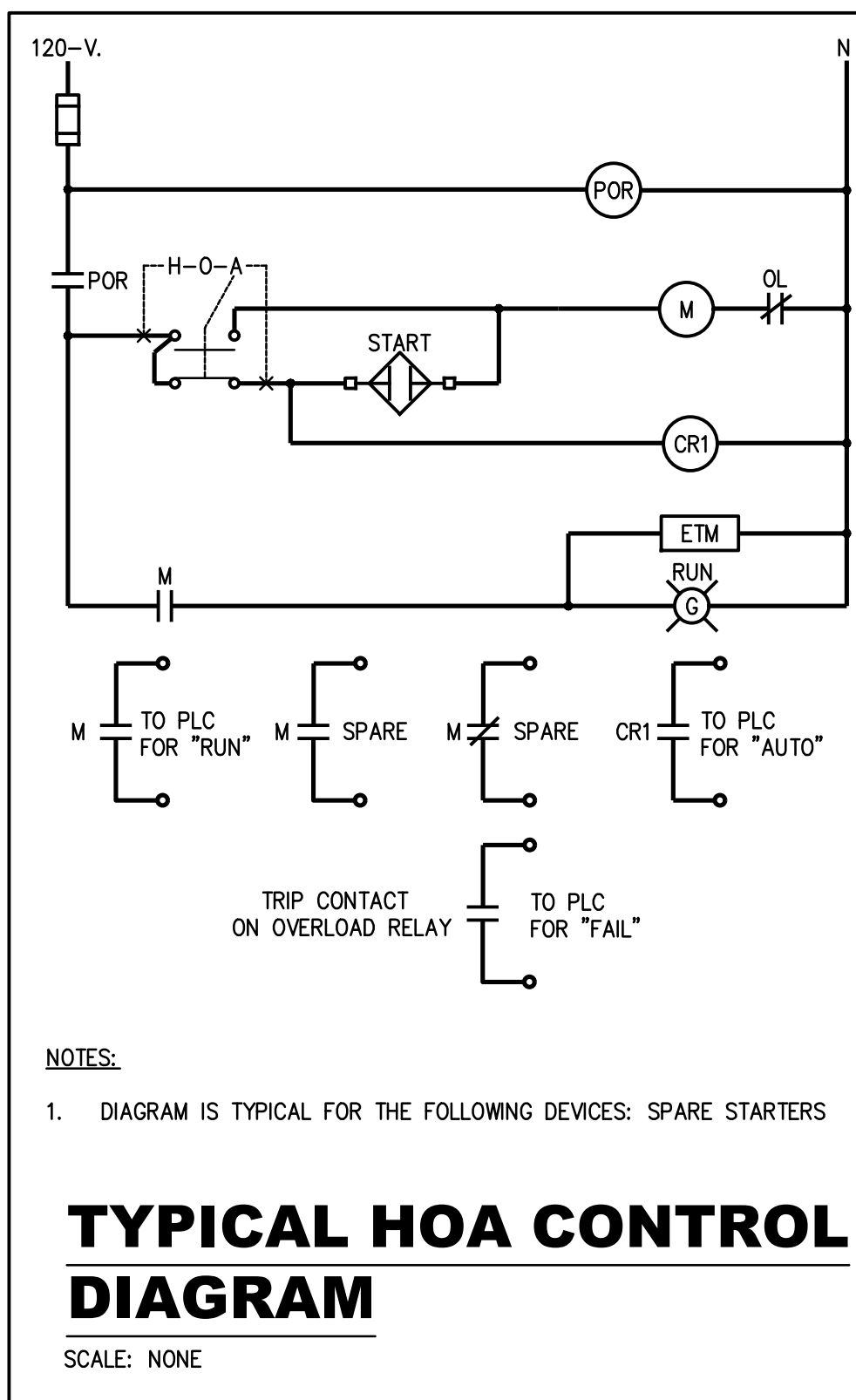
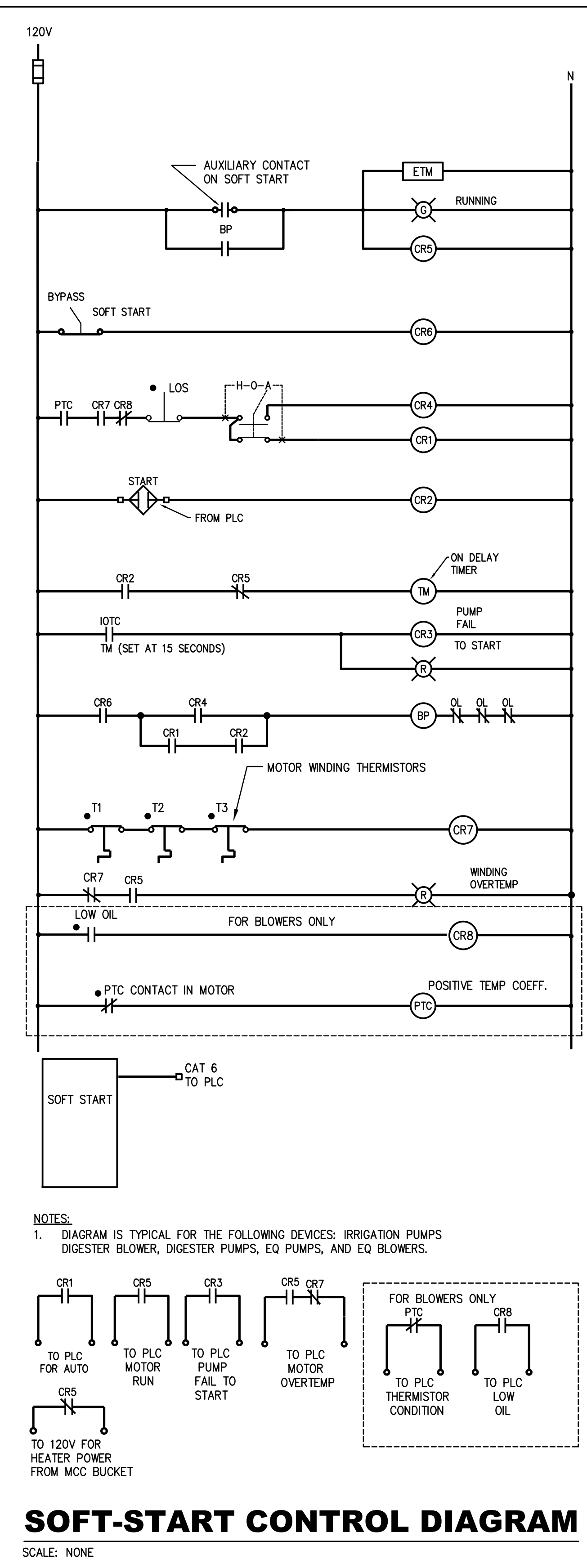
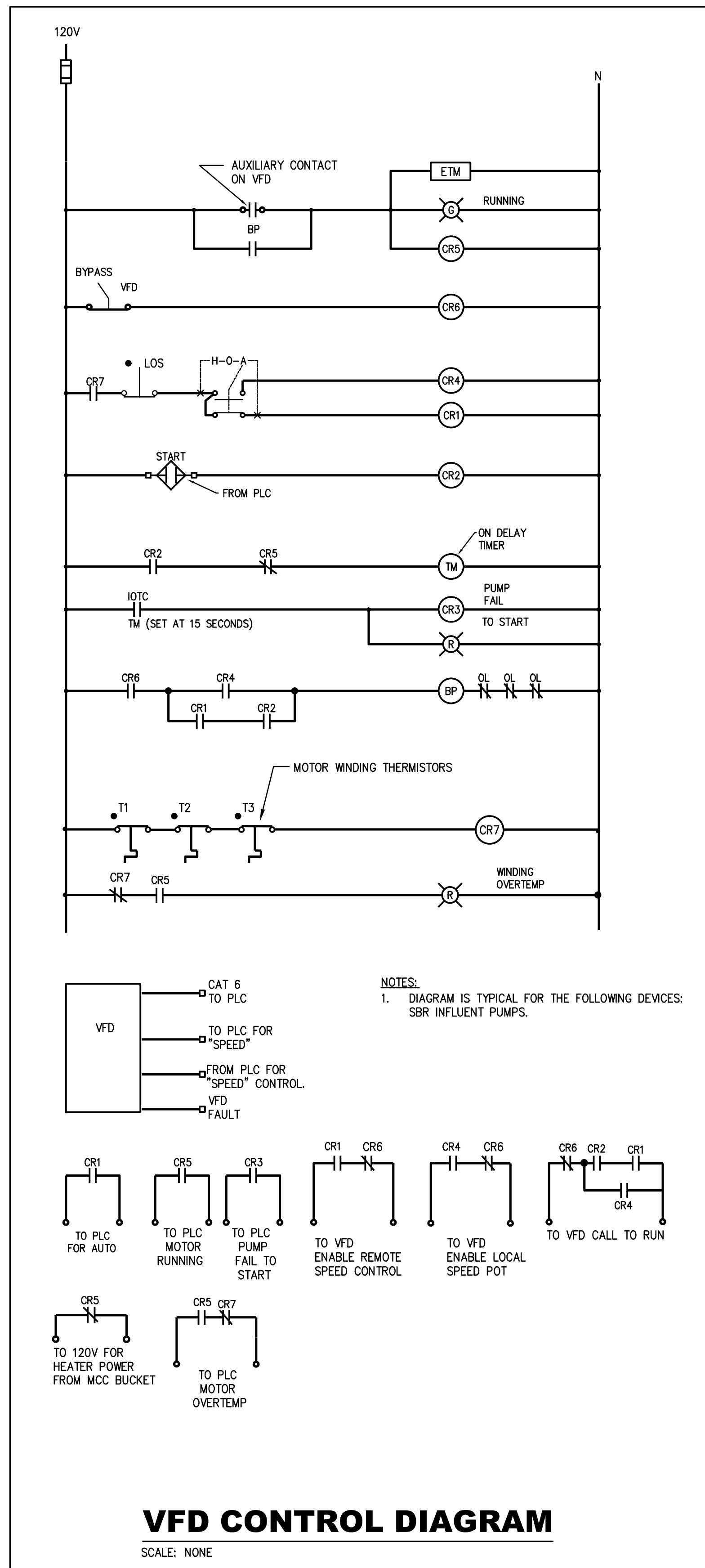
MCC LAYOUTS



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WWR PROJECT# 118057

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JOB NO. N16003
ISSUE DATE November 30, 2018
SCALE NO SCALE
DRAWING NO. E004



CONTROL DIAGRAMS LEGEND	
SYMBOL	DESCRIPTION
•	INDICATES DEVICE IS LOCATED AT MOTOR, PUMP, EQUIPMENT OR IN THE FIELD.
□	TERMINAL IN MAIN OR PLANT CONTROL PANELS.
◇	NORMALLY OPEN CONTACT IN A PLC CONTROL PANEL.
◇	NORMALLY CLOSED CONTACT IN A PLC CONTROL PANEL.
○	NORMALLY OPEN MOMENTARY PUSHBUTTON SWITCH.
○	NORMALLY CLOSED MOMENTARY PUSHBUTTON SWITCH.
M	NORMALLY OPEN CONTACT CONTROLLED BY A STARTER OR RELAY COIL. "M" INDICATES THE COIL.
M	NORMALLY CLOSED CONTACT CONTROLLED BY A STARTER OR RELAY COIL. "M" INDICATES THE COIL.
M	COIL FOR A MOTOR STARTER OR CONTROL RELAY. "M" INDICATES MOTOR STARTER, "VFD" INDICATES VARIABLE FREQUENCY DRIVE AND "SS" INDICATES REDUCED VOLTAGE STARTER (SOFT START).
POR	"POR" INDICATES A POWER "ON" DELAY RELAY. PROVIDE A POR WITH SETTINGS FROM .1 TO 300 SECONDS. MOUNT IN DOOR PANEL. THE POR WILL DELAY POWER TO CONTROL DEVICES AFTER A POWER OUTAGE. THIS WILL ALLOW THE MOTOR TO COMPLETELY STOP BEFORE RESTART. FIELD SET DELAY TIME.
CR	COIL FOR A CONTROL RELAY. PROVIDE WITH FOUR NO AND NC DRY CONTACTS.
BP	COIL FOR BYPASS CONTACTOR. PROVIDE NEMA CONTACTOR
TM	TIME DELAY RELAY. PROVIDE TIMING AS INDICATED ON DRAWING.
LC	NEMA LIGHTING CONTACTOR. PROVIDE NUMBER OF POLES AS INDICATED.
G	PILOT LIGHT. "G" INDICATES GREEN, "R" INDICATES RED AND "A" INDICATES AMBER.
ETM	ELAPSED TIME METER.
H-O-A	HAND-OFF-AUTOMATIC SWITCH.

CONTROL DIAGRAMS GENERAL NOTES:
1. ALL DEVICES ARE LOCATED IN MCC UNLESS OTHERWISE NOTED.

REVISIONS		DESIGNATIONS		DESIGNATIONS	
NO.	DATE	BY	APPD	NO.	DESCRIPTION

DESIGN	RAC	DRAWN	JCM	CHECKED	RAC	APPROVED	RAC
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PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

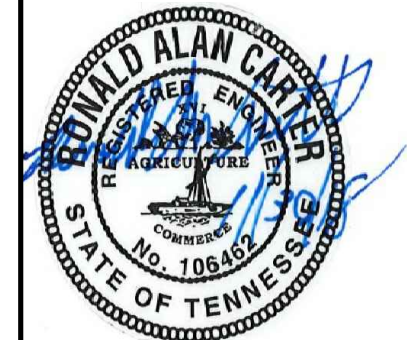
CONTROL DIAGRAMS

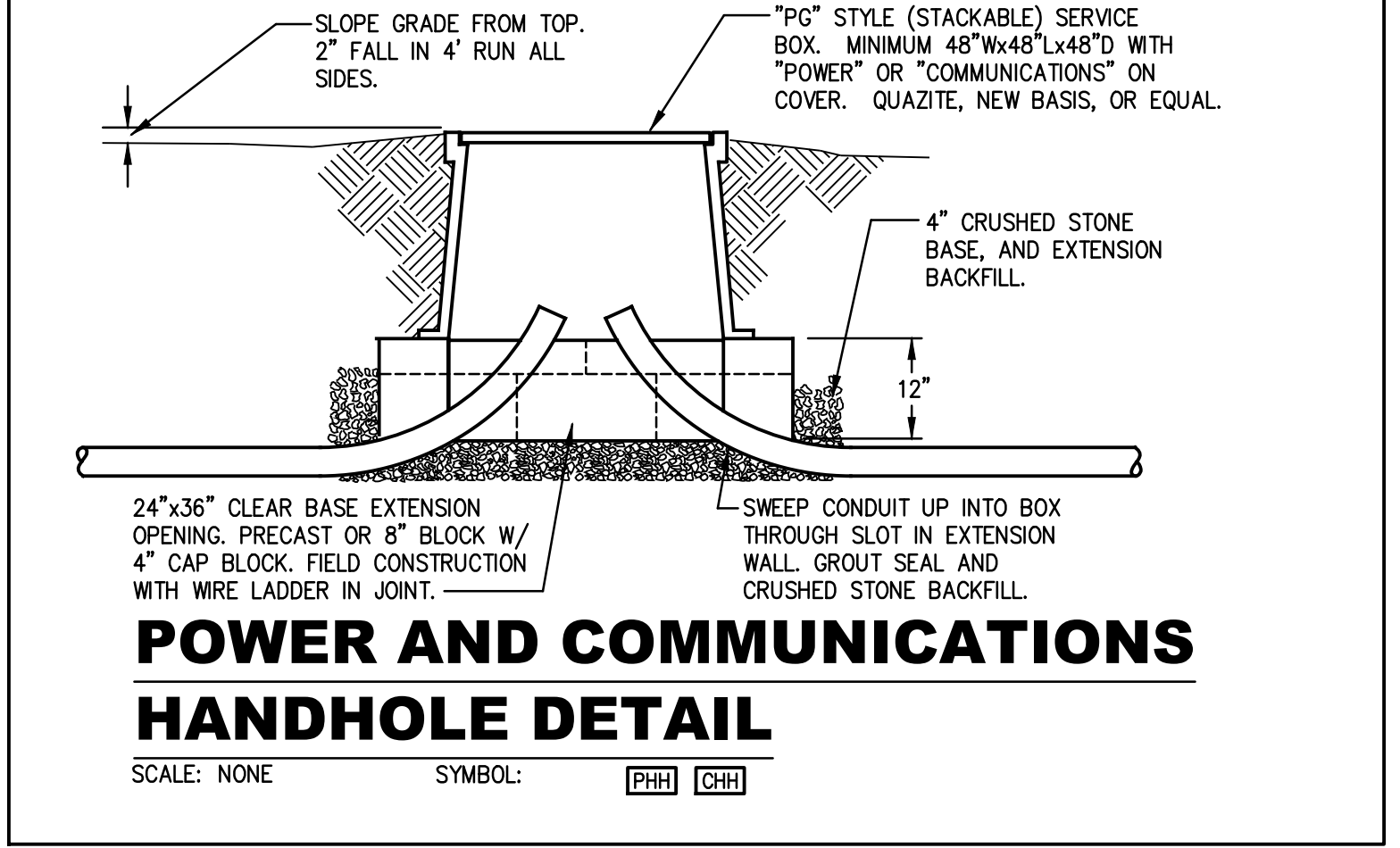
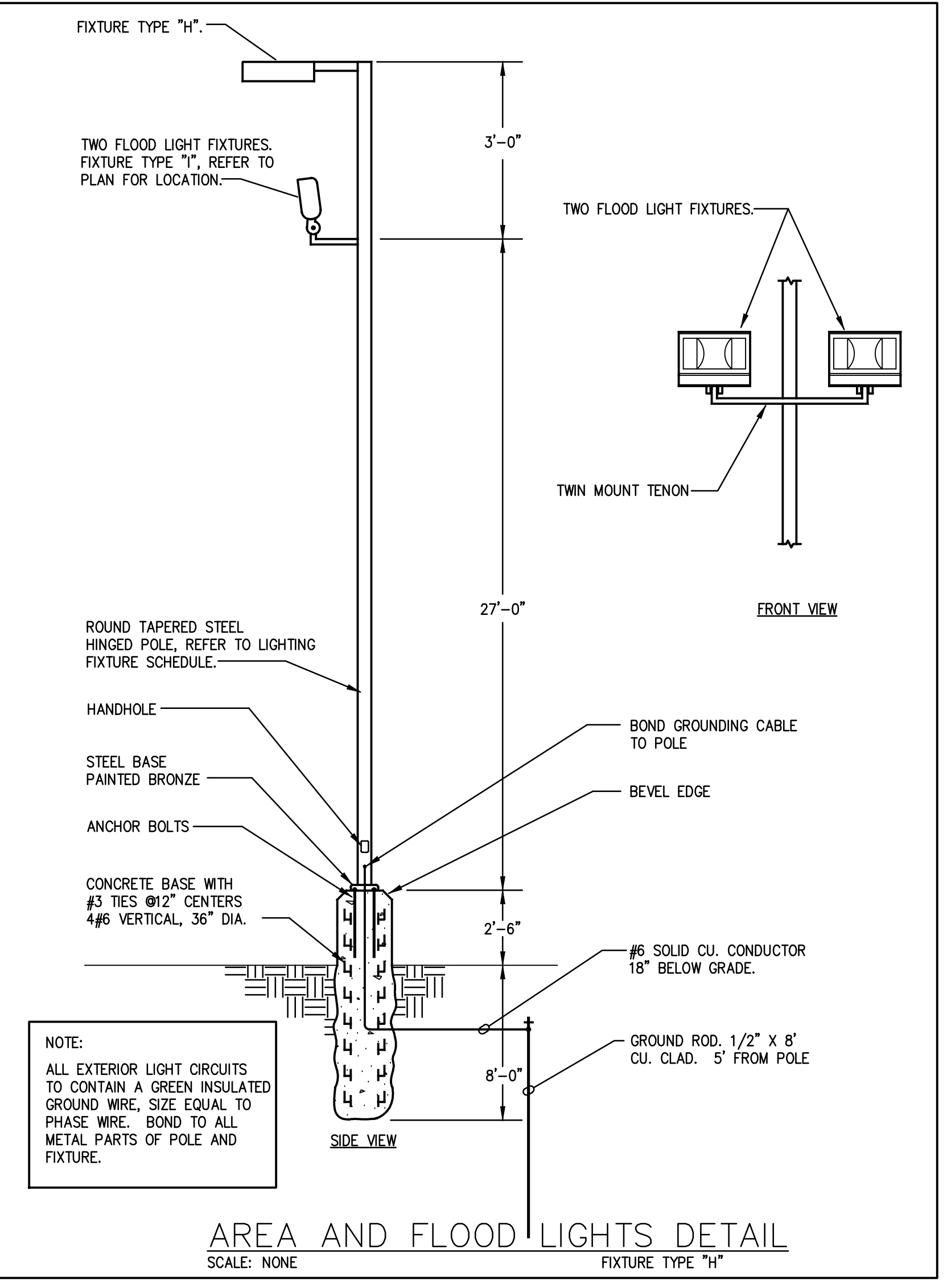
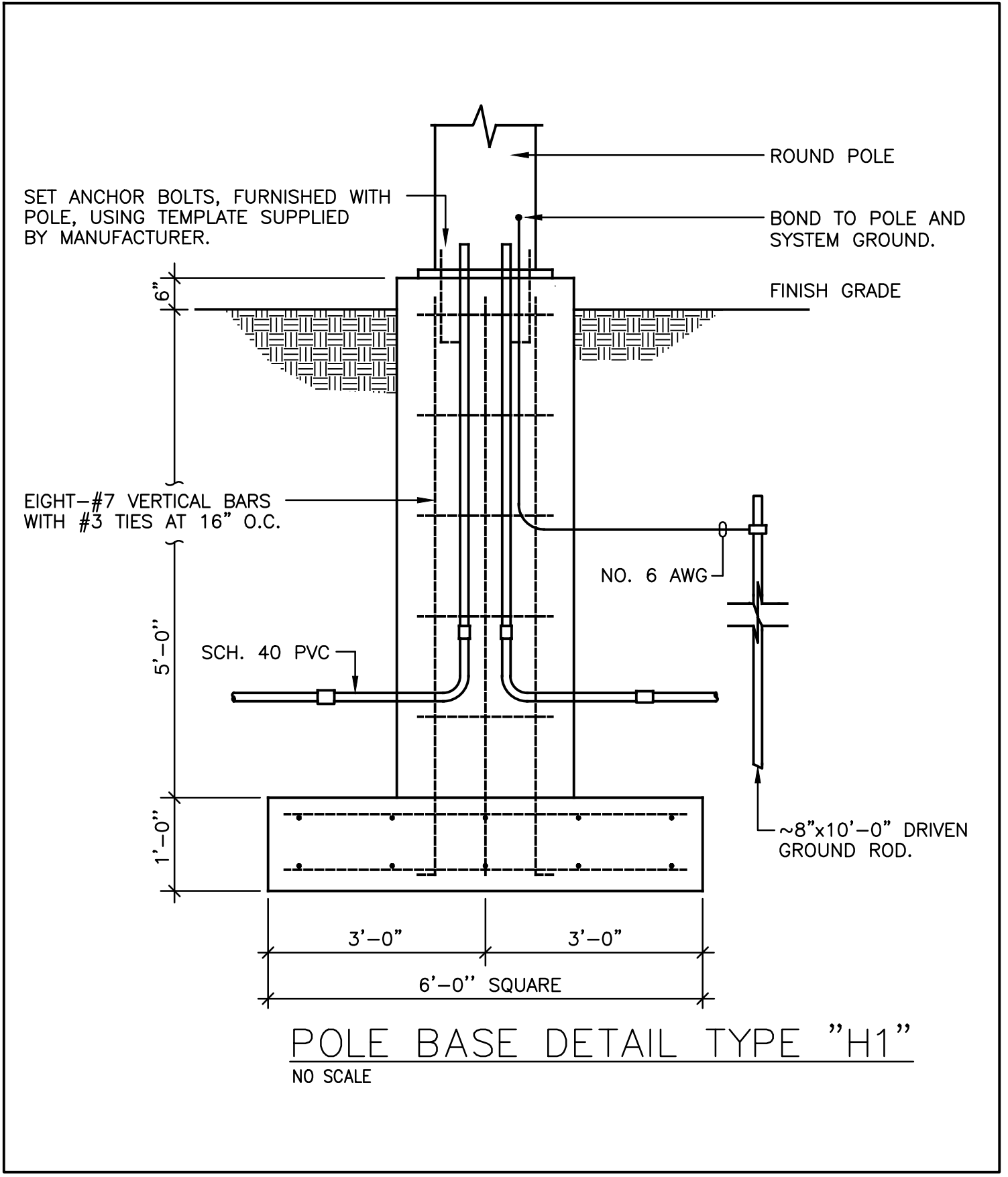
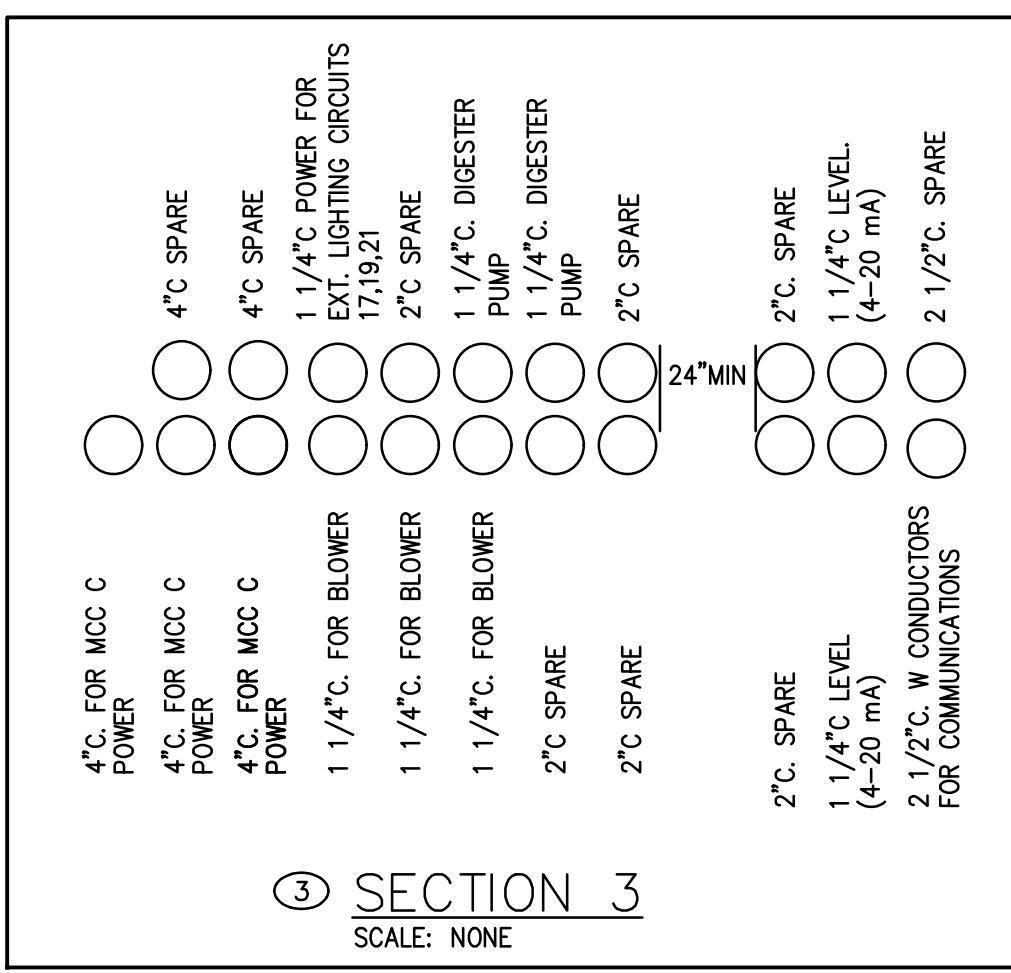
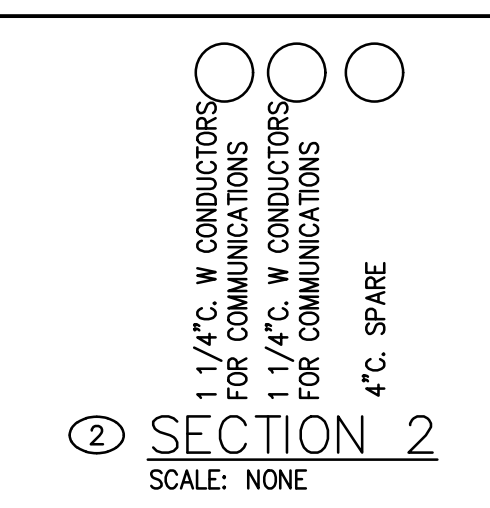
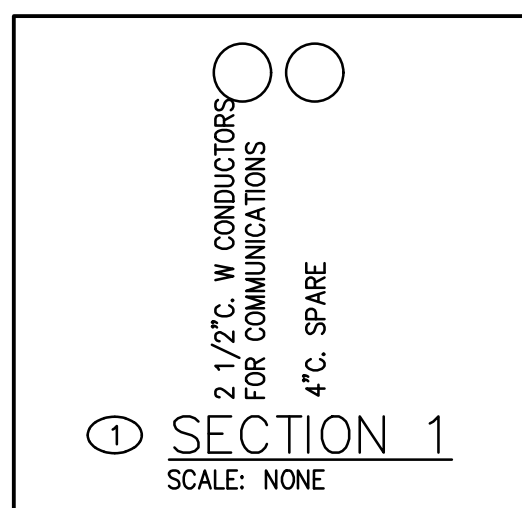
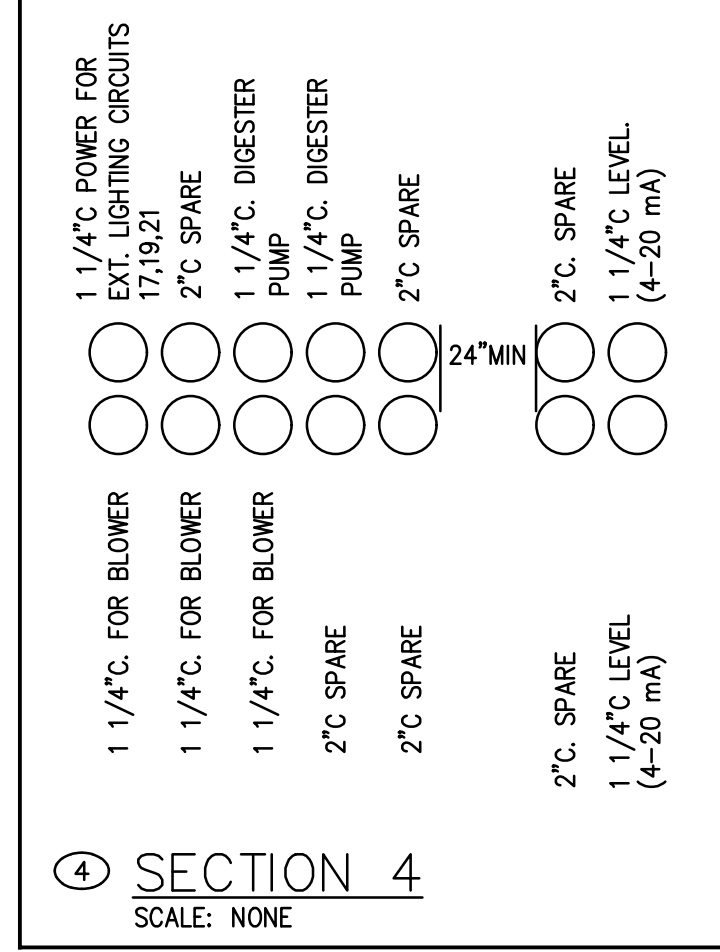
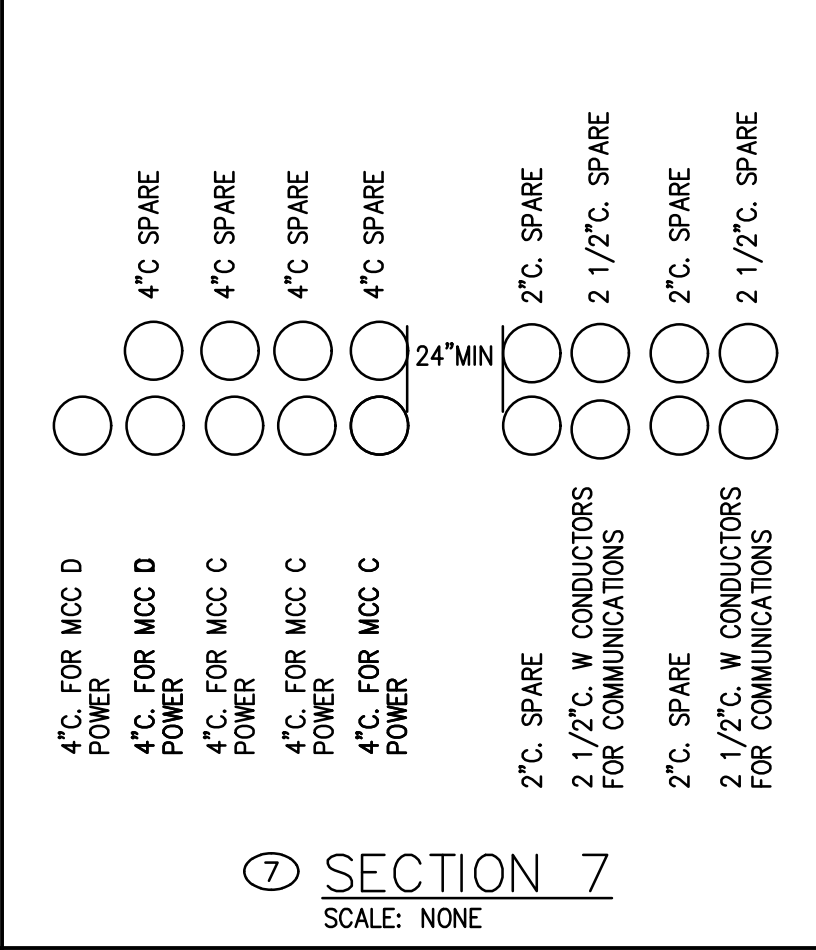
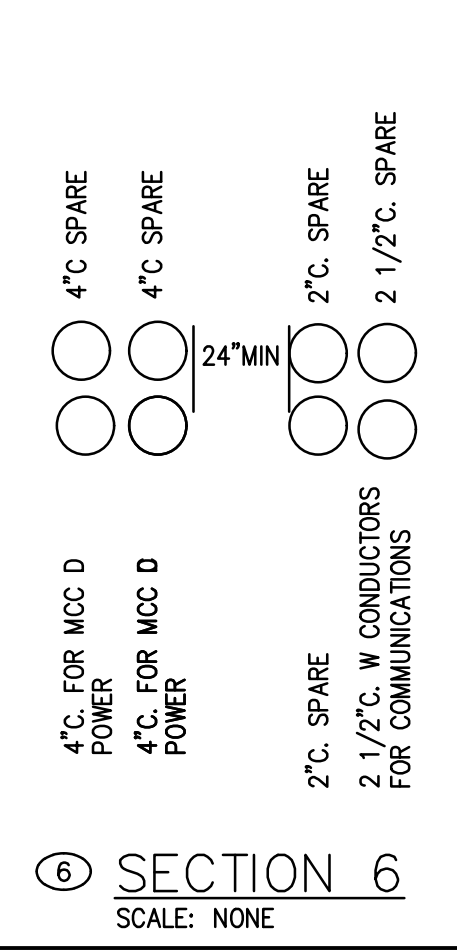
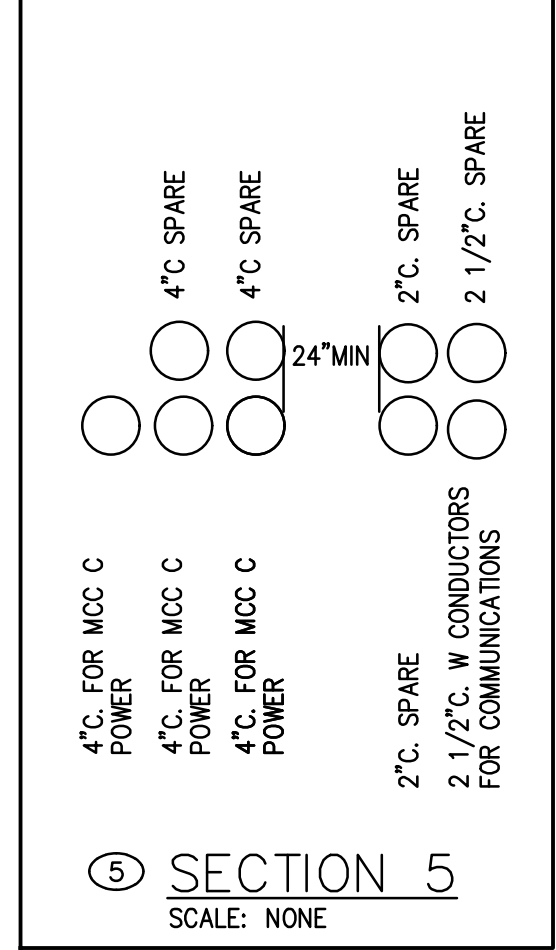
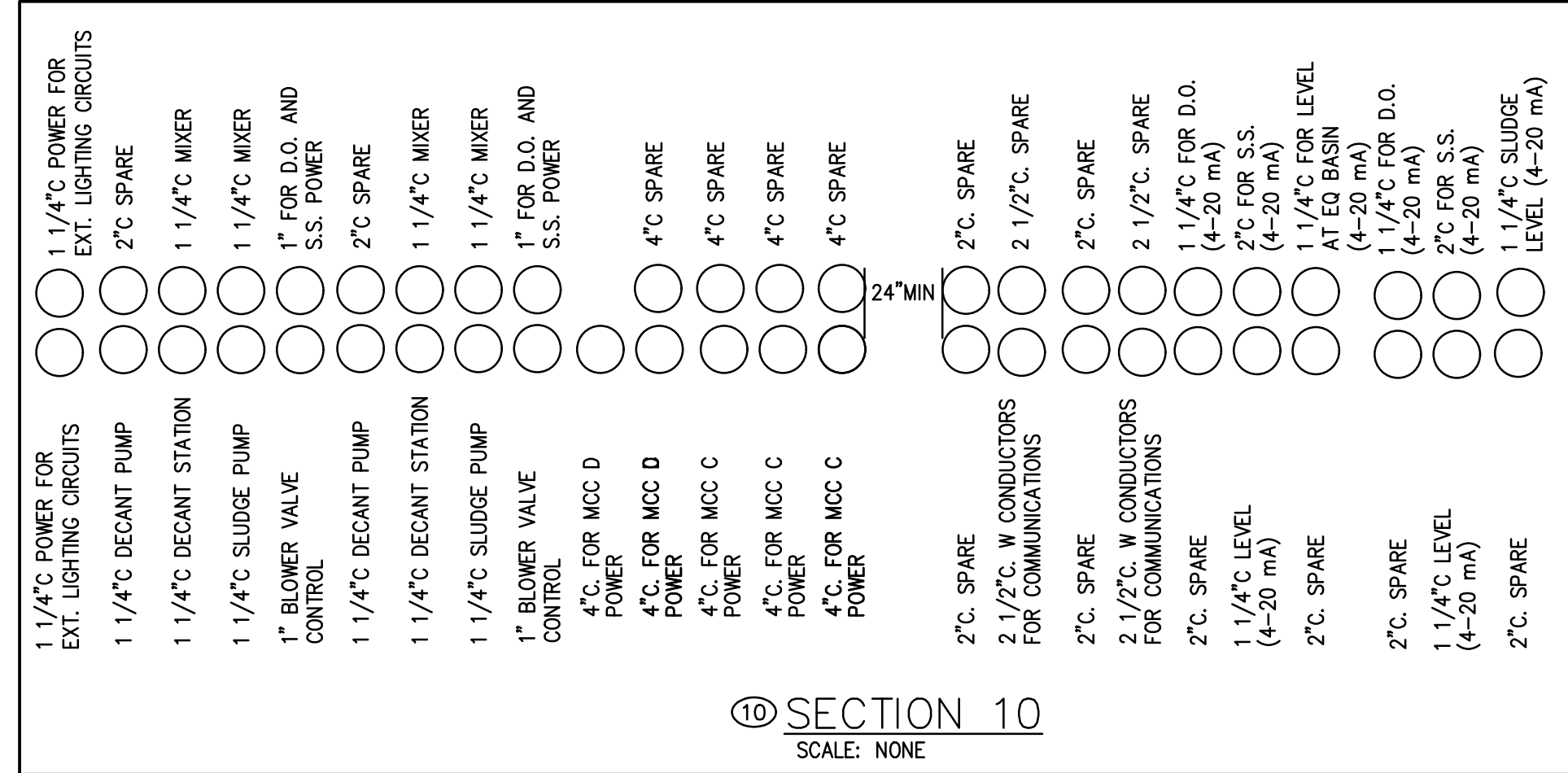
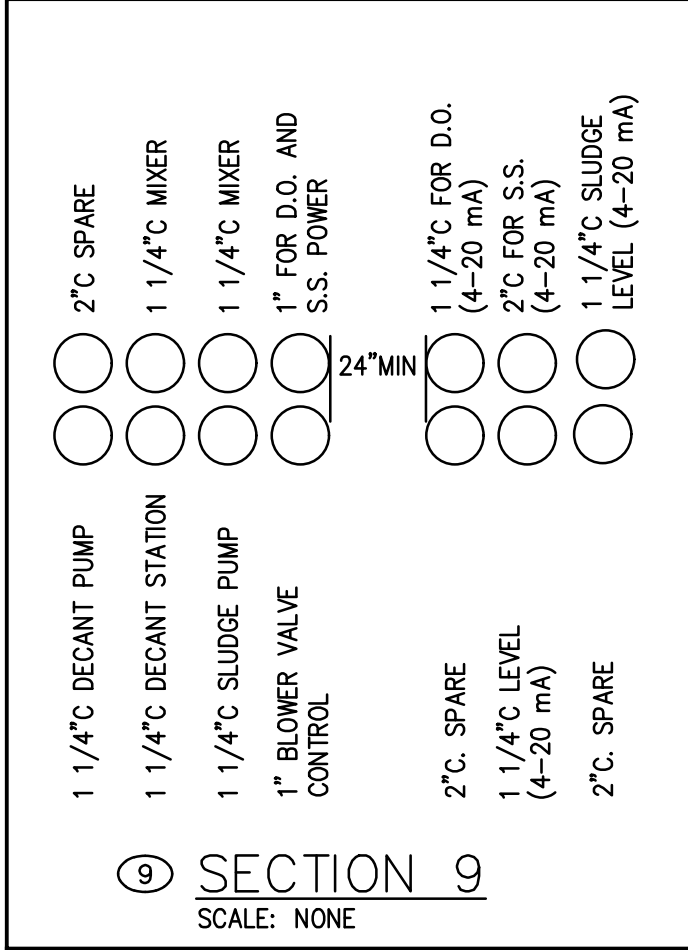
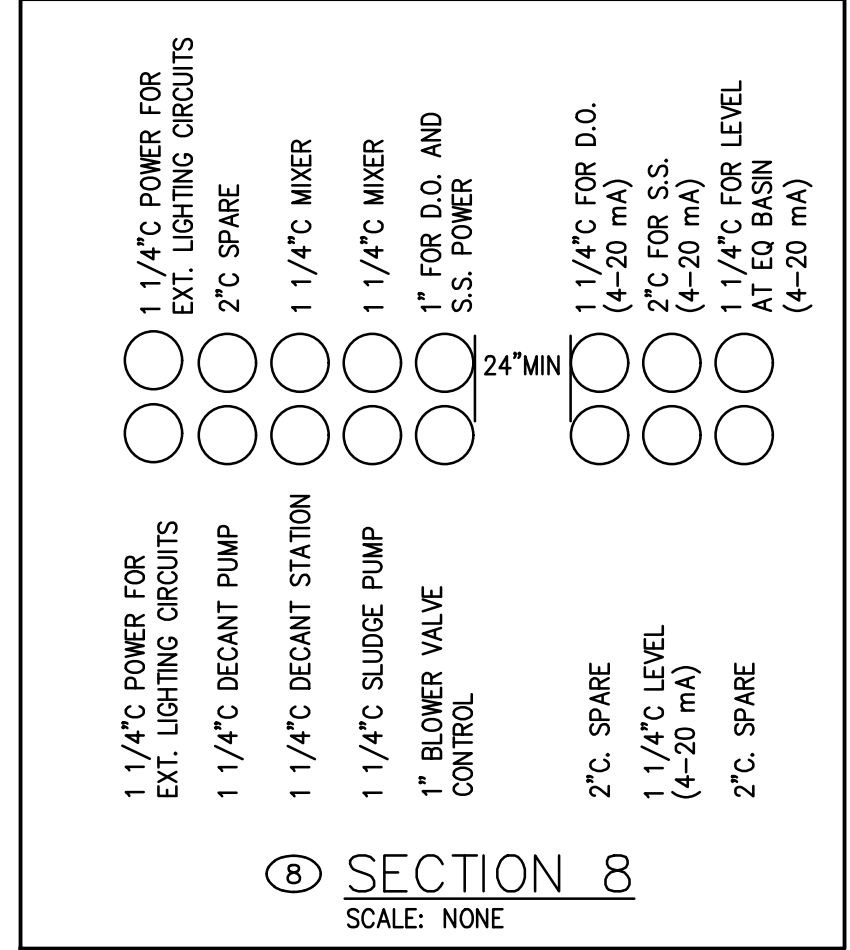
ENGINEERS, INC.
3354 PERIMETER HILL DRIVE, SUITE 140
NASHVILLE, TN 37211
615-834-8300

JOB NO.	N16003
ISSUE DATE	November 30, 2018
SCALE	NO SCALE
DRAWING NO.	E005

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REVISIONS		DESIGN		DRAWN		CHECKED		APPROVED	
NO.	DESCRIPTIONS	RAC	JCM	RAC	RAC	DATE	BY	DATE	BY

WASTEWATER TREATMENT PLANT EXPANSION
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PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

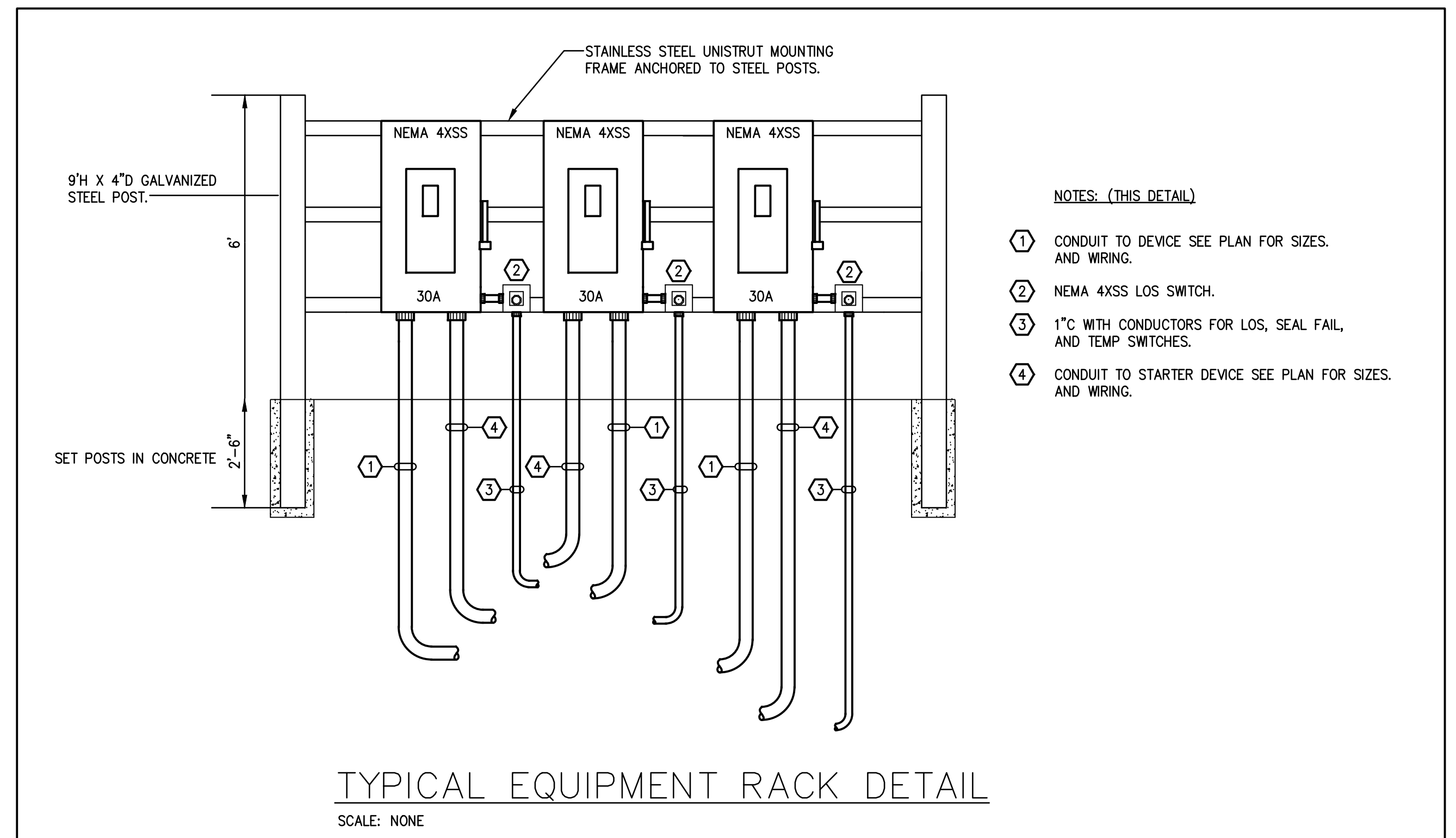
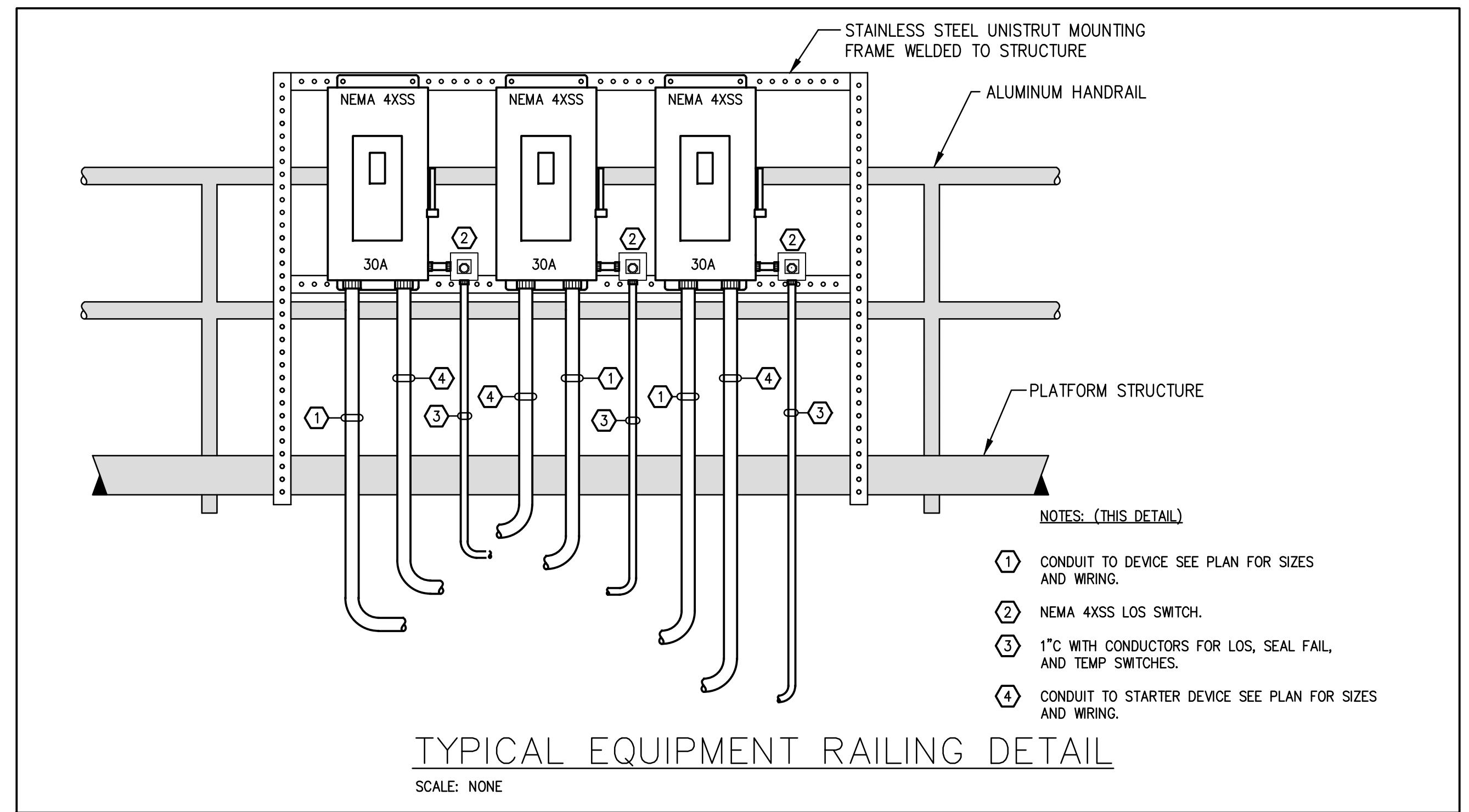
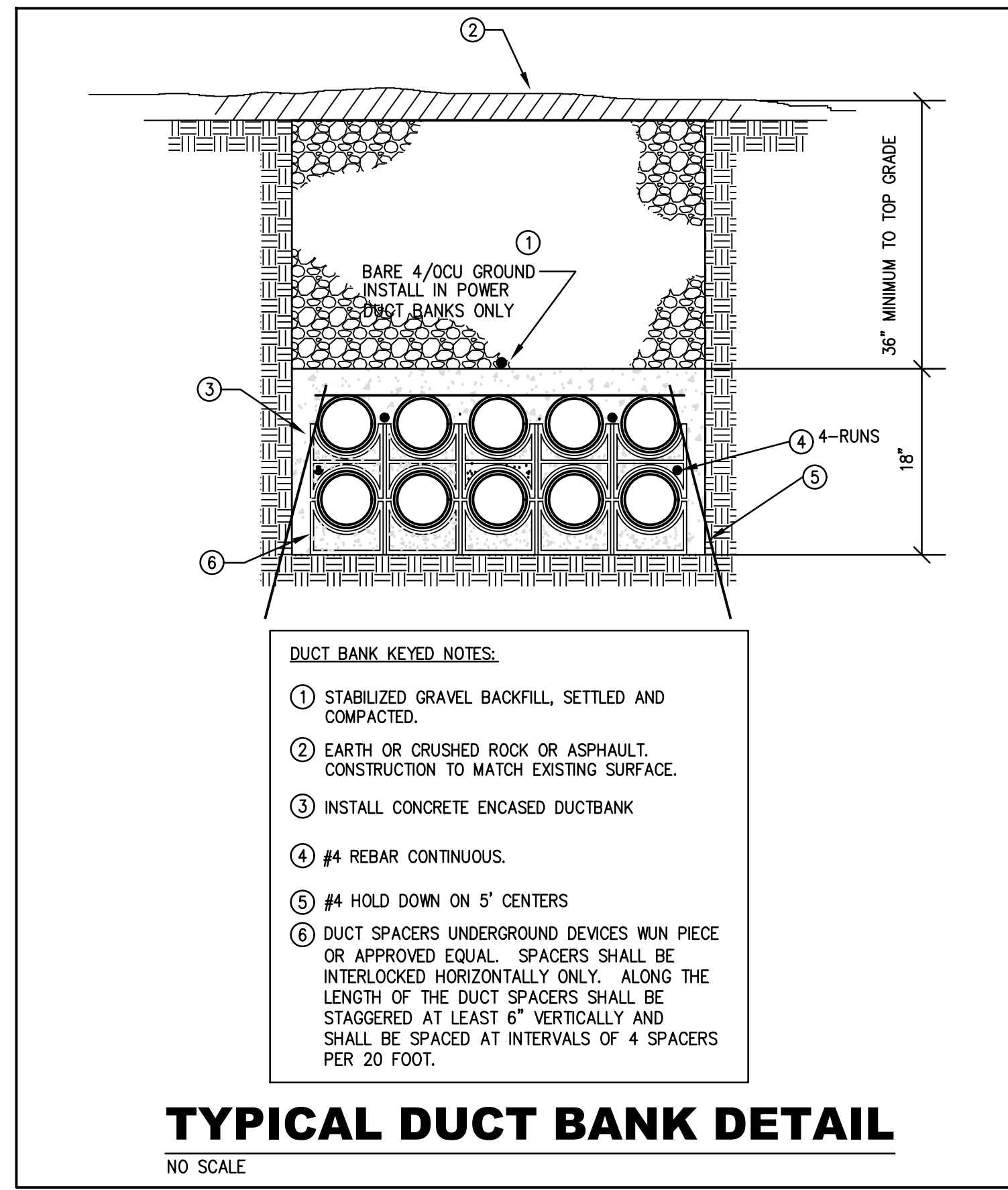
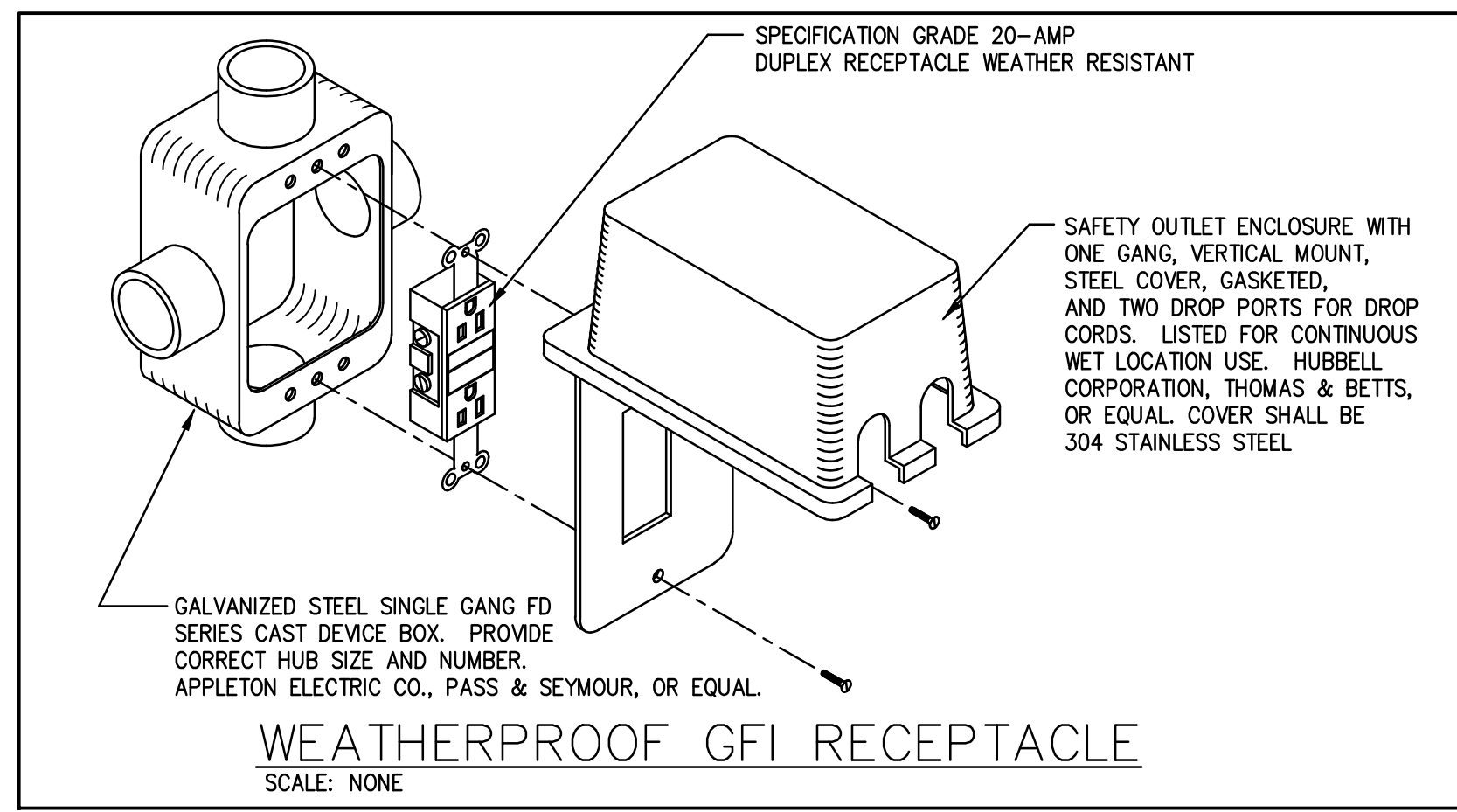
ENGINEERS, INC.
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NASHVILLE, TN 37211
615-834-8300

JOB NO. N16003
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5417 Ball Camp Pike
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DATE OF PRINT: 3/14/2019 2:39 PM
 CTI PROJECT: N16003-01 (TN Dept. General Services) Bledsoe County Correctional Complex, DRAWING: CTI - C-007 EXISTING SITE PIPING PLAN SHEET 4 (686049v12/11/2018 11:51AM) LAYOUT: Model



REVISIONS		DESIGNATIONS	
NO.	DATE	BY	APPD

DESIGN	RAC	DRAWN	JCM	CHECKED	RAC	APPROVED	RAC
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DETAILS

WASTEWATER TREATMENT PLANT EXPANSION
BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

ENGINEERS, INC.
 3354 PERIMETER HILL DRIVE, SUITE 140
 NASHVILLE, TN 37211
 615-834-8300

DAVID ALAN CARTER
 REGISTERED ENGINEER
 No. 10840
 STATE OF TENNESSEE

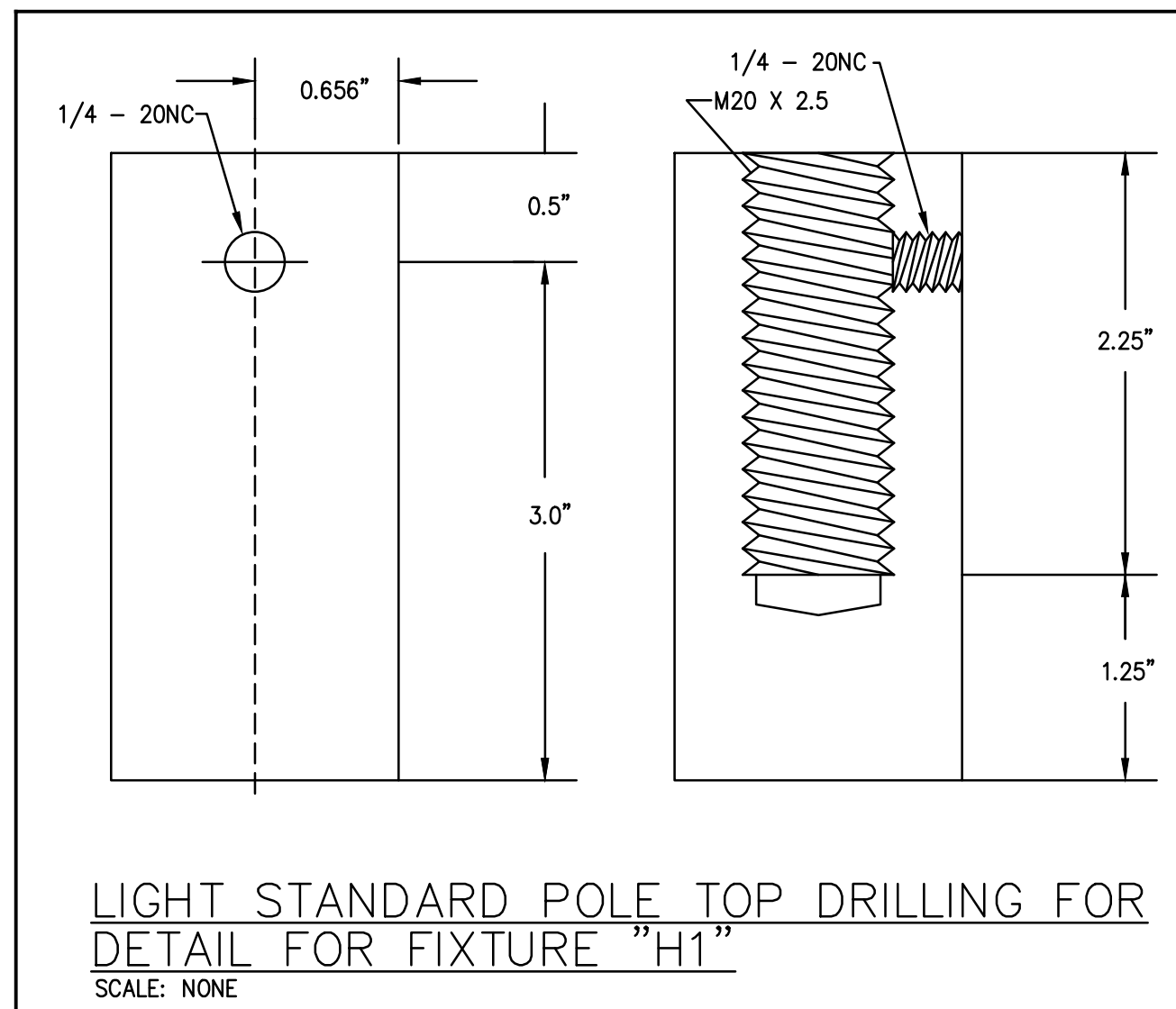
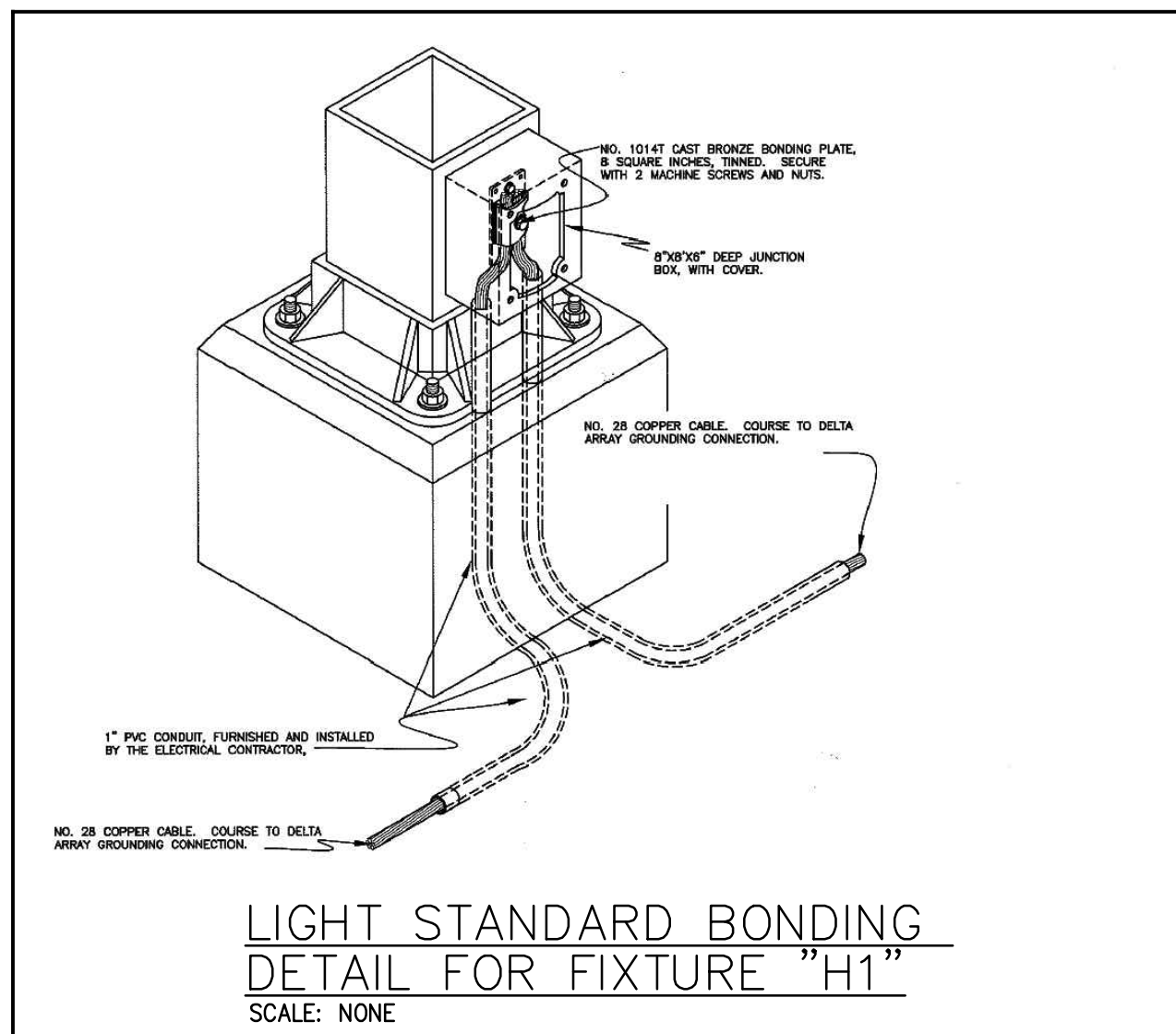
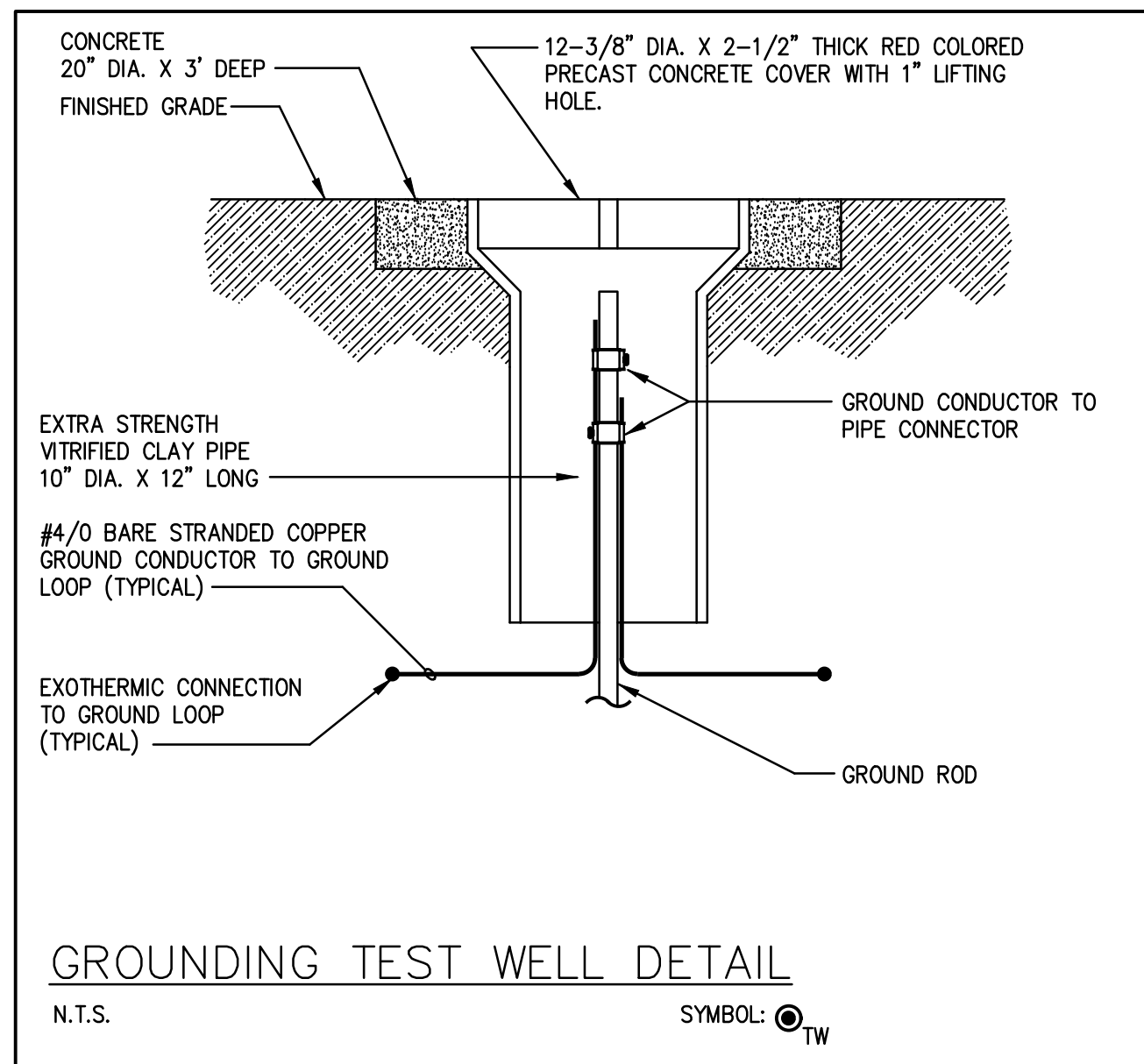
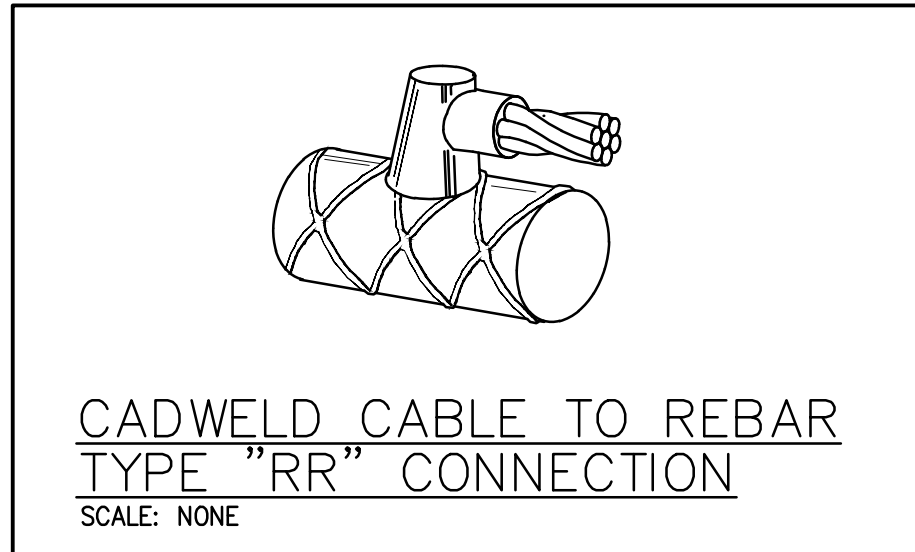
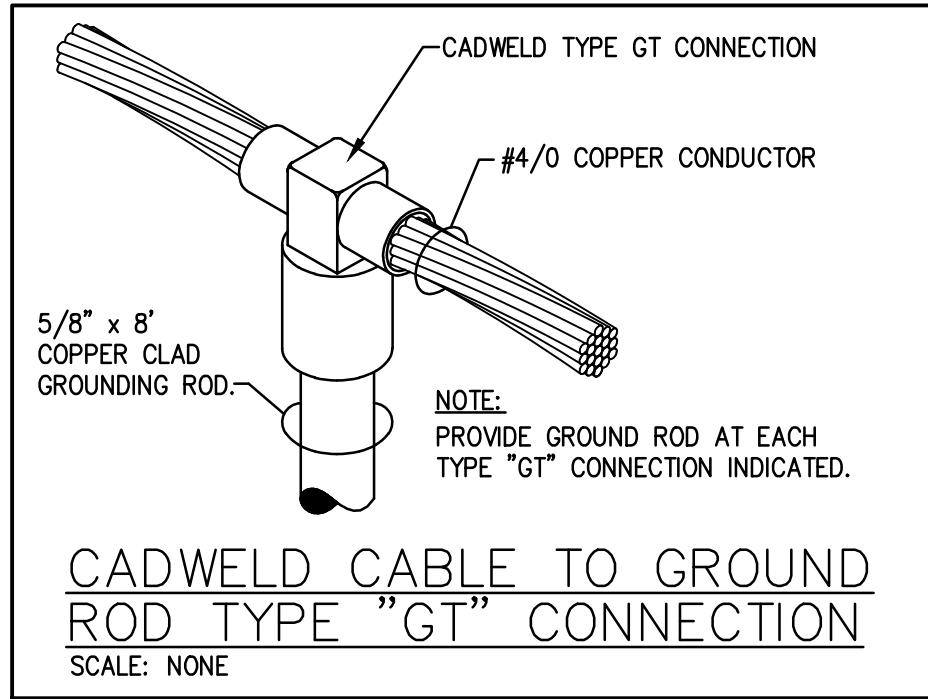
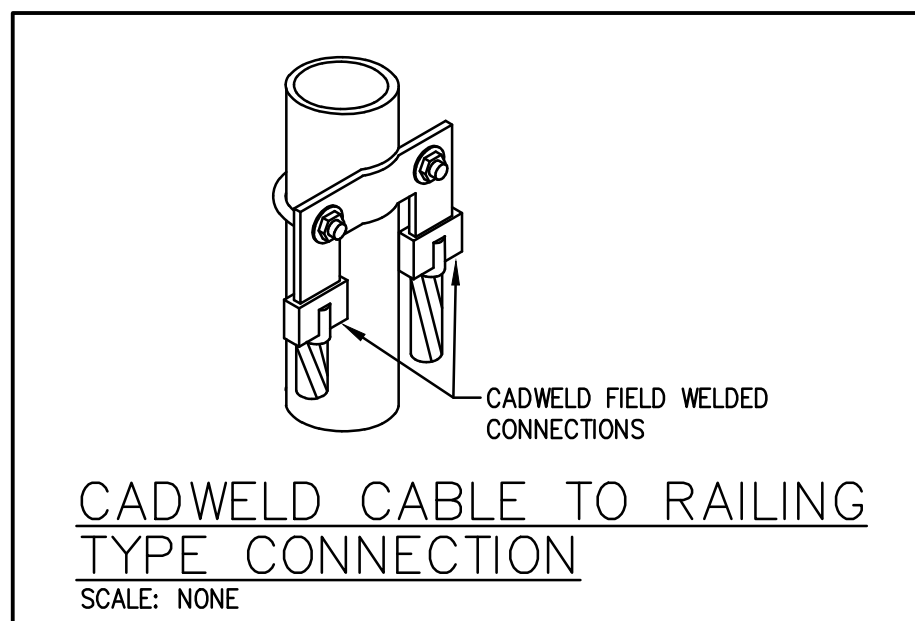
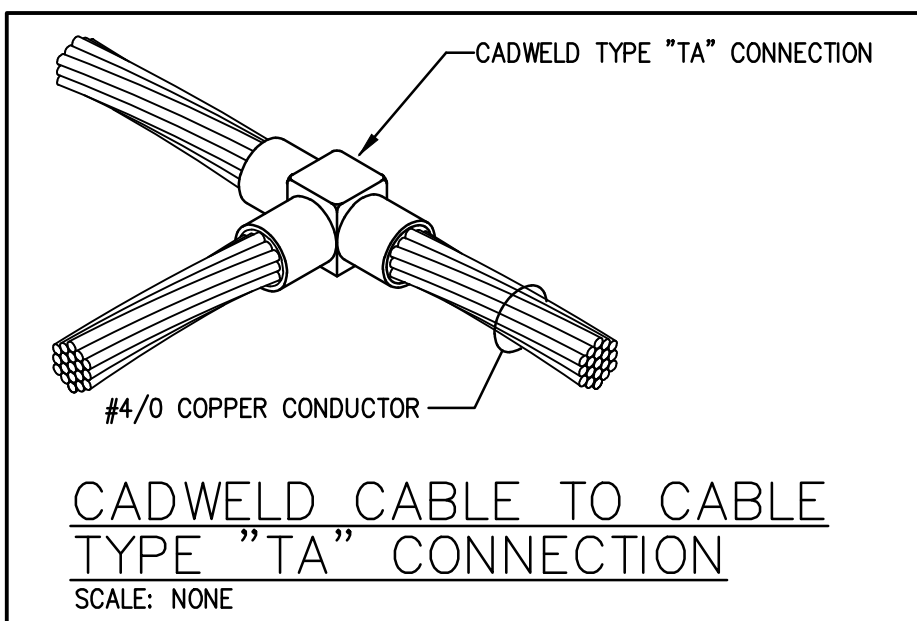
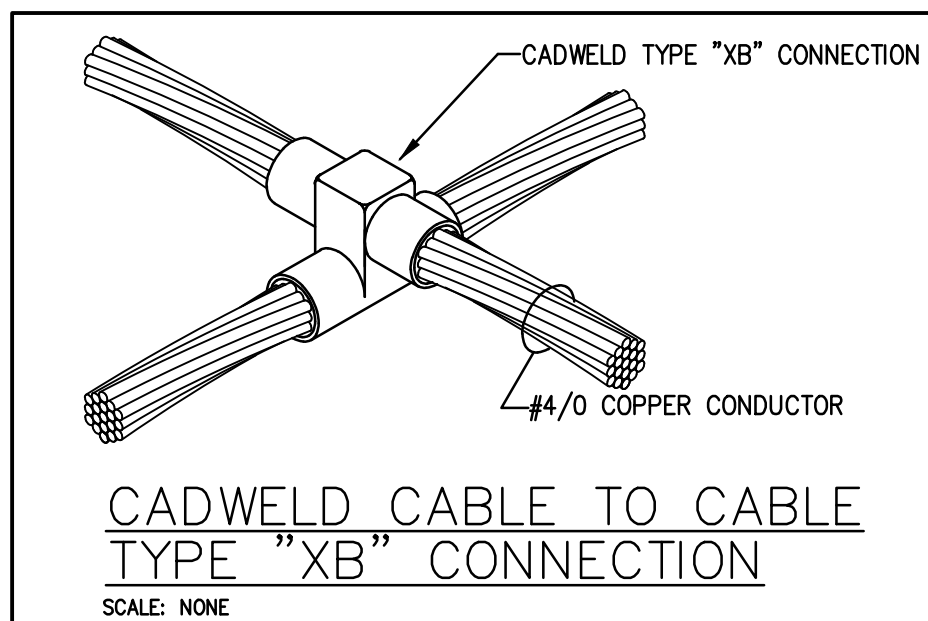
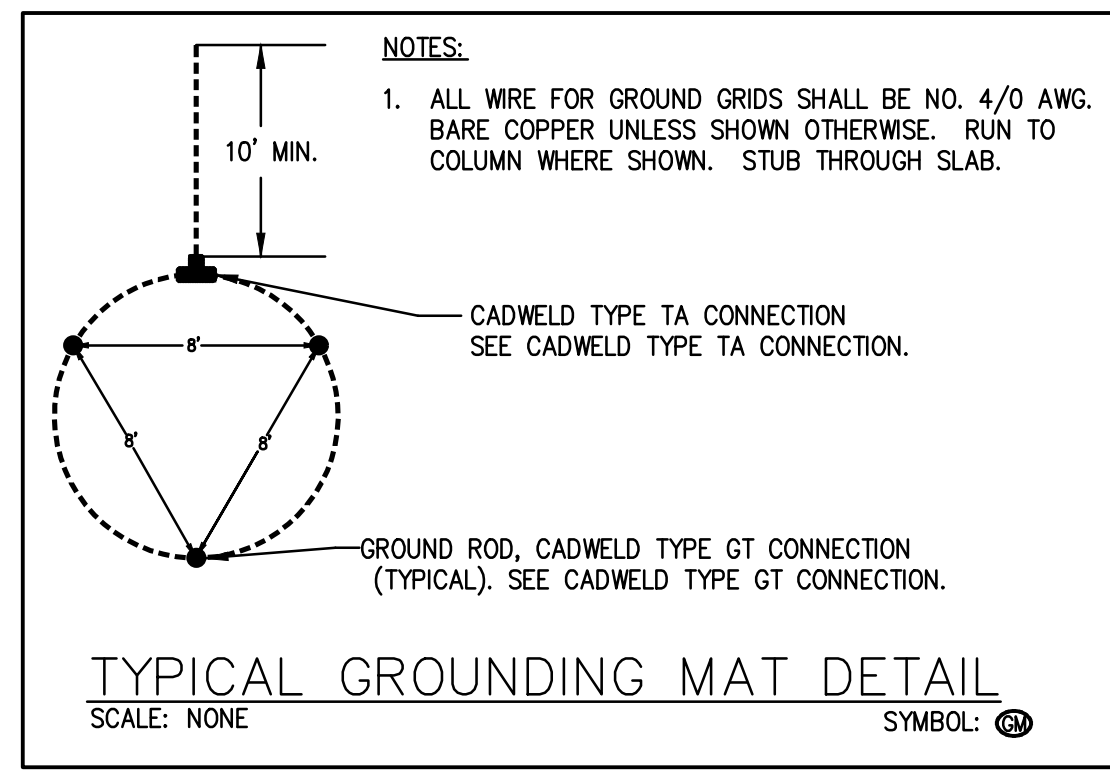
JOB NO.	N16003
ISSUE DATE	November 30, 2018
SCALE	NO SCALE
DRAWING NO.	E007

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CTI PROJECT: N16003-01 (TN Dept. General Services IDEC) Bledsoe County Correctional Complex, DRAWING: CTI - C-007 EXISTING SITE PIPING PLAN SHEET 4 (686049v12/11/2018 11:51AM) LAYOUT: Model

DATE OF PRINT: 3/14/2019 2:40 PM

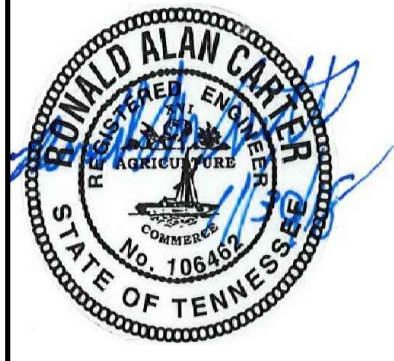
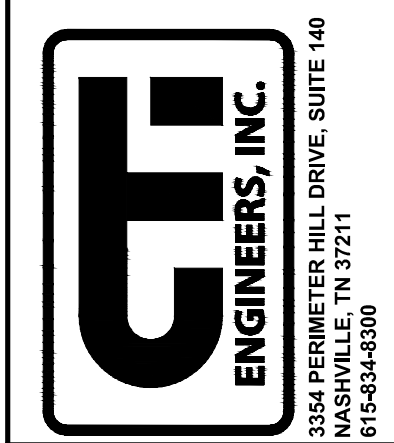


NO.	REVISIONS DESCRIPTIONS	DATE	BY	APPD					
					DESIGN	DRAWN	CHECKED	APPROVED	

DESIGN: RAC
 DRAWN: JCM
 CHECKED: RAC
 APPROVED: RAC

WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

GROUNDING DETAILS



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JOB NO.
N16003

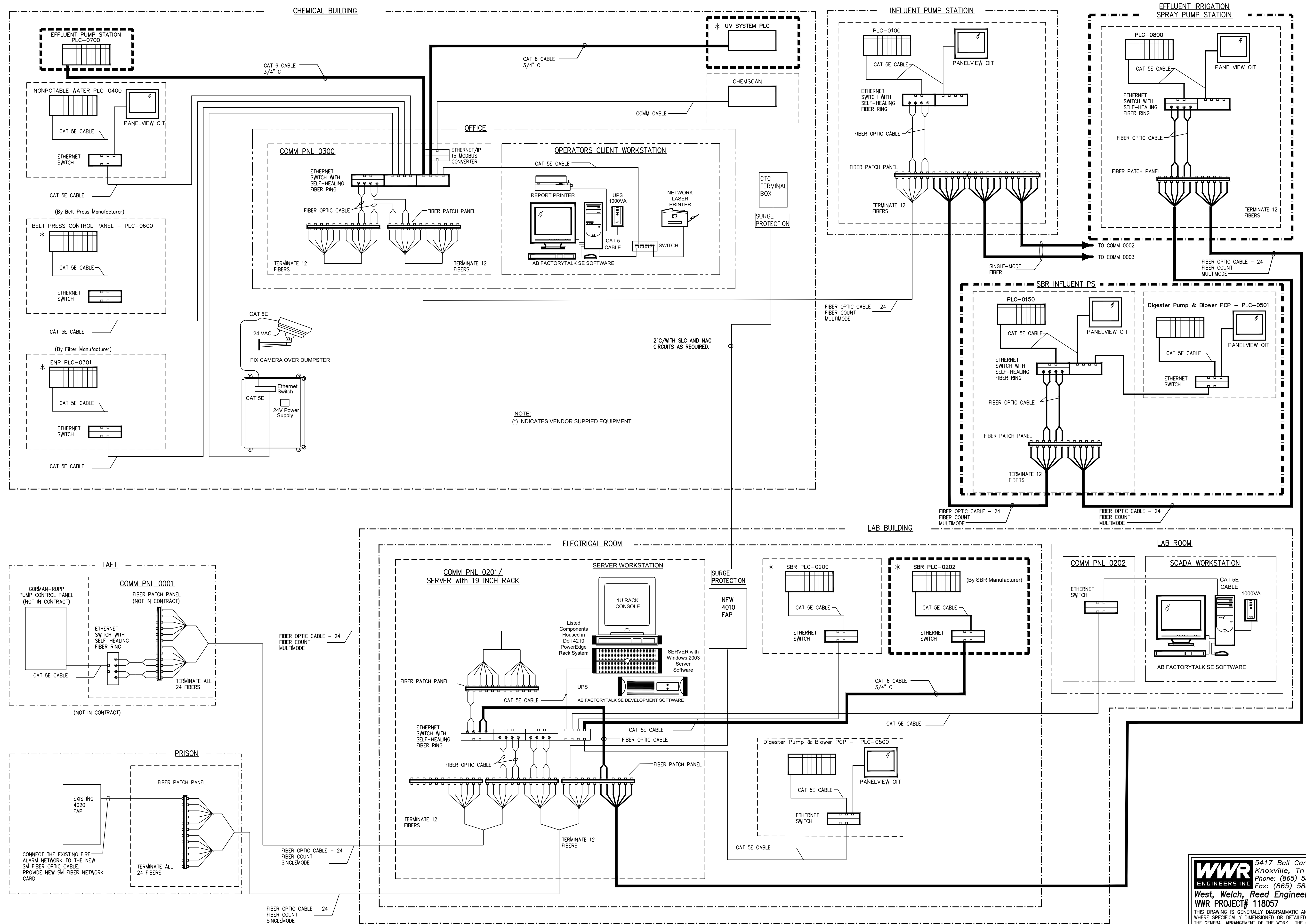
ISSUE DATE
November 30, 2018

SCALE
NO SCALE

DRAWING NO.
E008

CTI PROJECT: N16003-01 (TN Dept. General Services TDEC) Bledsoe County Correctional Complex DRAWING: CTI-C-007 EXISTING SITE PIPING PLAN SHEET 4 (6/6/09) 12/3/19 3:31 PM LAYOUT: Model

DATE OF PRINT: 3/14/2019 2:41 PM



NOTE:
(*) INDICATES VENDOR SUPPLIED EQUIPMENT

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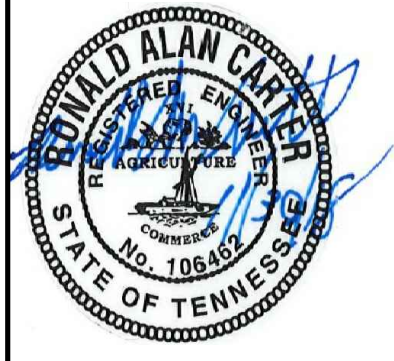
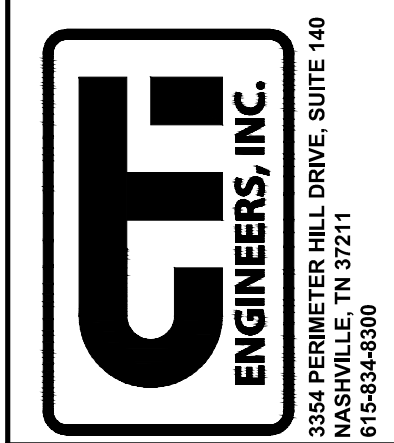
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REVISIONS	
NO.	DESCRIPTIONS

DESIGN	DRAWN	CHECKED	APPROVED
RAC	JCM	RAC	RAC

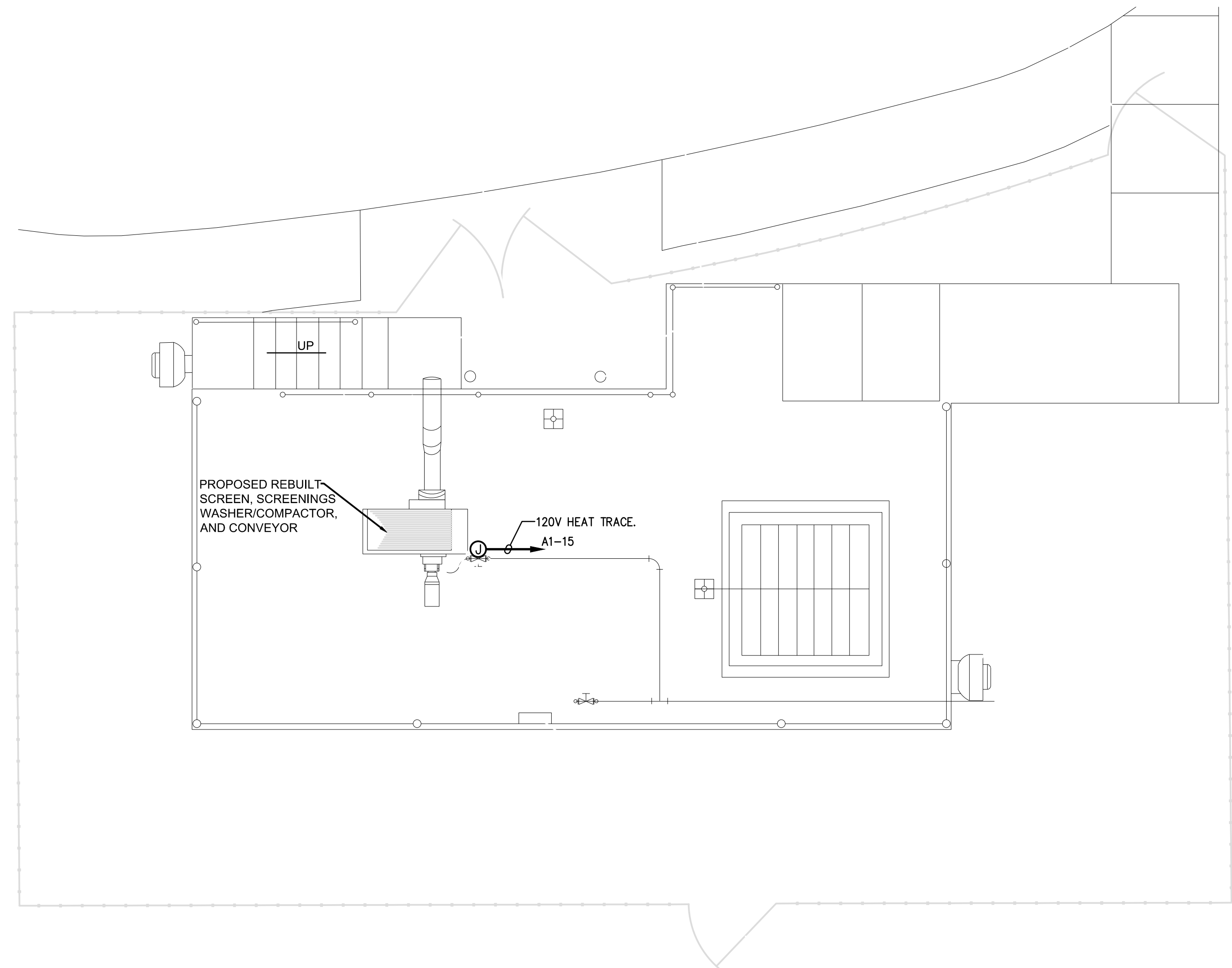
WASTEWATER TREATMENT PLANT EXPANSION
BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

COMMUNICATIONS
ONLINE DIAGRAM



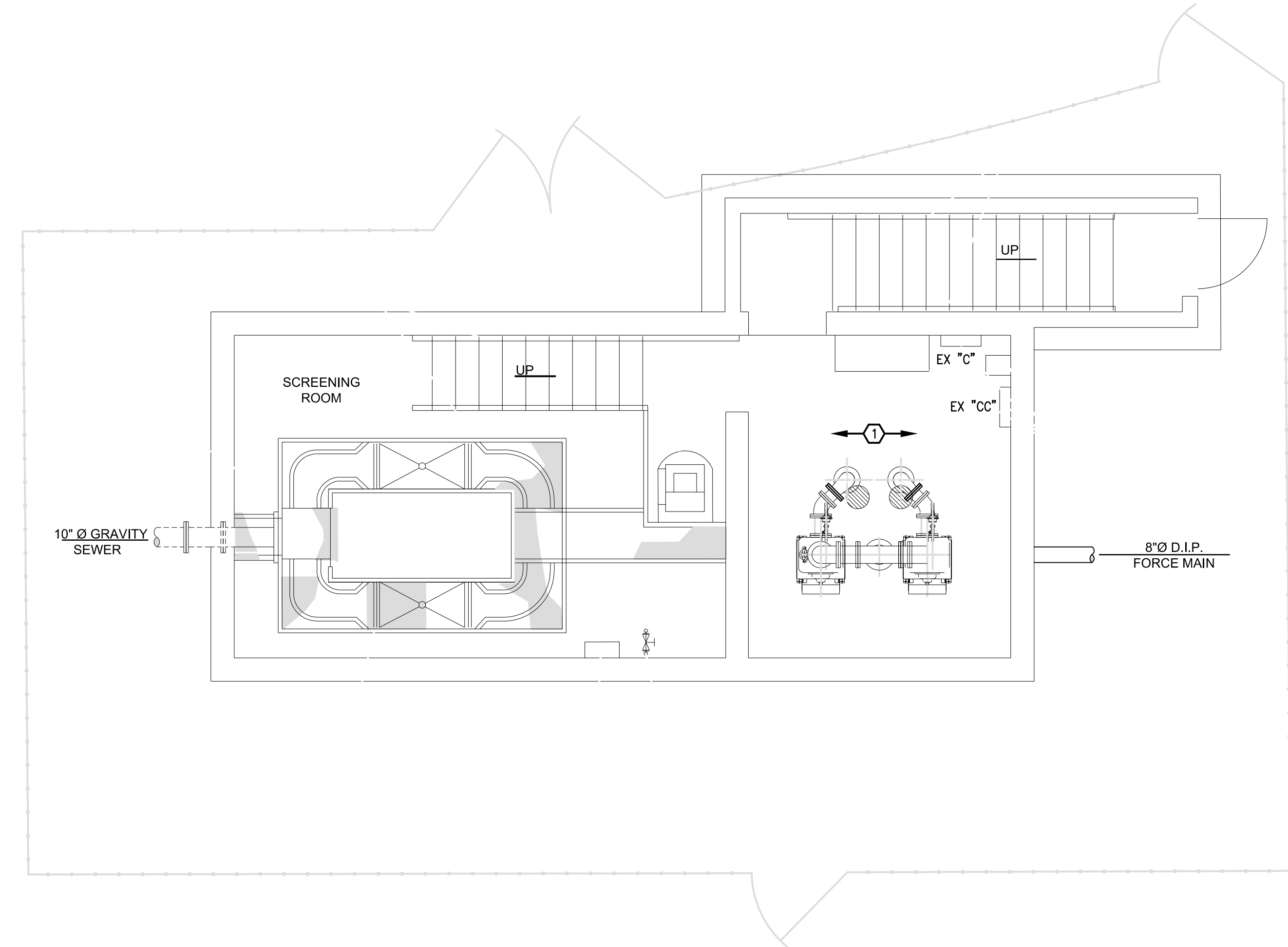
JOB NO.	N16003
ISSUE DATE	November 30, 2018
SCALE	NO SCALE
DRAWING NO.	E009

DRAWING NOTES:
 ① EXISTING PUMPS TO BE REPLACED WITH NEW. RE-CONNECT TO EXISTING CONNECTIONS.



UPPER FLOOR PLAN - ELECTRICAL

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



LOWER FLOOR PLAN - ELECTRICAL

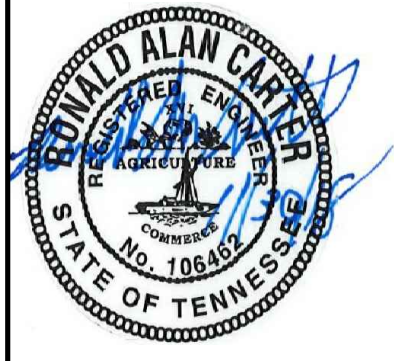
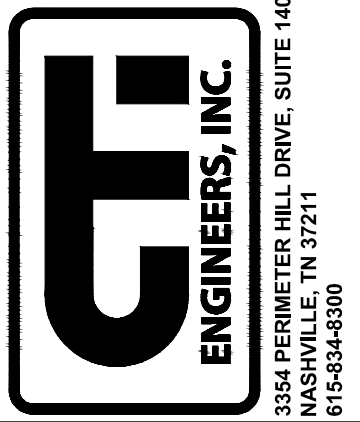
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REVISIONS		NO.	DATE	BY	APPD

DESIGN: RAC
 DRAWN: JCM
 CHECKED: RAC
 APPROVED: RAC

WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

INFLUENT PUMP STATION FLOOR PLAN - ELECTRICAL



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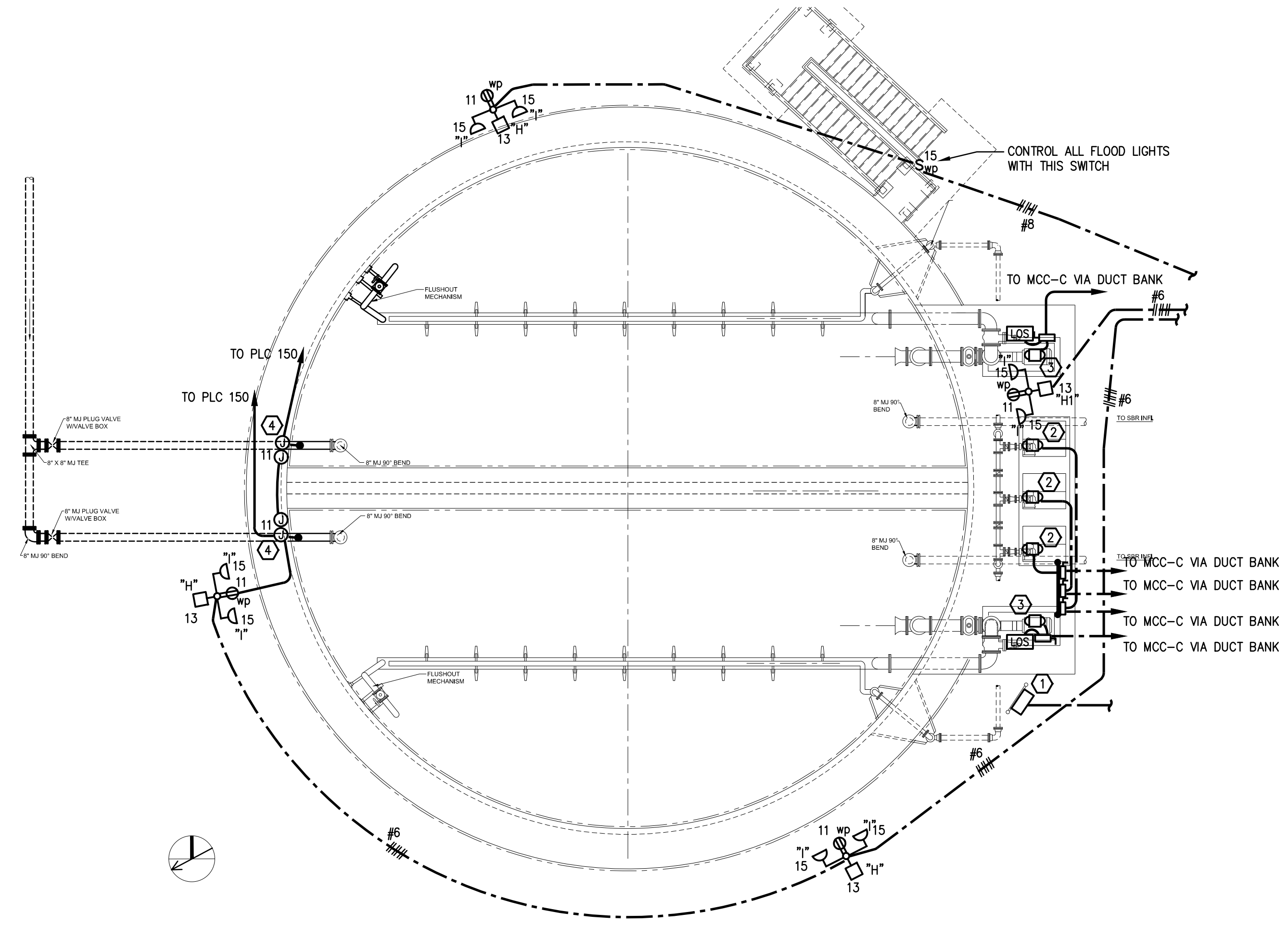
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JOB NO.
N16003

ISSUE DATE
November 30, 2018

SCALE
1/4"=1'-0"

DRAWING NO.
E101



INFLUENT EQUALIZATION BASIN PLAN - ELECTRICAL
SCALE: 1/8"=1'-0"

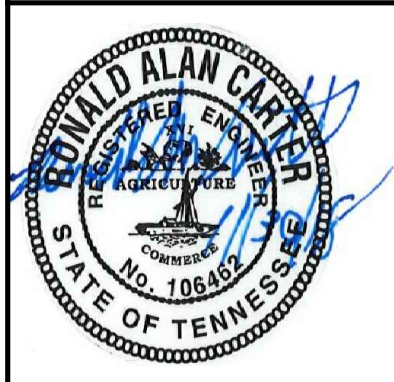
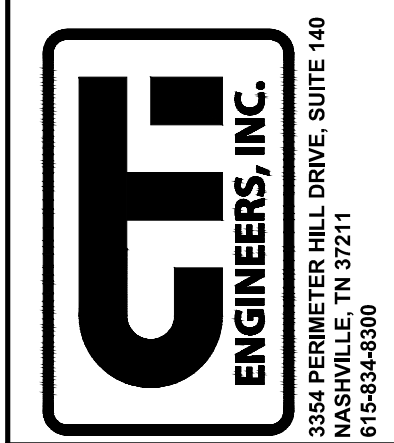
- GENERAL NOTES:**
- CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL DEVICES PRIOR TO ROUGH-IN.
 - REFER TO "CONTROL AND MONITORING CONNECTION SCHEDULE" ON SHEET E001 FOR CONTROL CONDUCTORS CONNECTION POINTS, QUANTITY AND SIZE.
 - CONTRACTOR SHALL FIELD ROUTE ALL CONDUIT. ROUTE CONCEALED, WHEN EVER POSSIBLE.
 - ALL EXPOSED OR SURFACE-MOUNTED CONDUITS AND FITTINGS SHALL BE RIGID GALVANIZED STEEL. ATTACH CONDUITS WITH 2-HOLE STRAPS.
 - FINAL CONDUIT CONNECTIONS TO MECHANICAL EQUIPMENT SHALL BE LIQUDTIGHT FLEXIBLE METAL CONDUIT.
 - ALL JUNCTION BOXES, NEMA 4XSS EQUIPMENT ENCLOSURES, WP DEVICE ENCLOSURES, AND ALL BRACKETS, CLAMPS, AND FASTENERS SHALL BE 304 STAINLESS STEEL.
 - ALL WET WELL AND TANK AREAS SHALL BE CLASSIFIED AS CLASS 1 DIVISION 1 HAZARDOUS LOCATIONS. ALL WIRING SHALL BE LISTED FOR HAZARDOUS USE IN THESE AREAS. PROVIDE CONDUIT SEALS FOR ALL WIRING LEAVING CLASSIFIED ZONES. INSTALL PER NEC.
 - NEC CLASS 1 DIVISION 2 GROUP D AREA EXTENDS 18" ABOVE THE TOP OF BASINS AND INCLUDES AN ENVELOPE EXTENDING 18" BEYOND THE BASINS EXTERIOR WALLS. ALSO CLASSIFIED AREA ENVELOPE EXISTS 18" ABOVE GRADE EXTENDING 10 FEET HORIZONTALLY FROM BASIN EXTERIOR WALLS. PROVIDE CONDUIT SEALS, EXPLOSION PROOF ENCLOSURES AS REQUIRED BY NEC 501.

- DRAWING NOTES:**
- NEMA 4XSS COMMUNICATIONS JUNCTION BOX, 24"x24"x12"D. MOUNT TO SIDE OF STRUCTURE WITH STAINLESS STEEL CHANNEL AS HIGH AS PRACTICAL. EXTEND ALL LOW VOLTAGE COMMUNICATIONS THROUGH THIS BOX
 - EQ BASIN BLOWER, 480V, 3Ø, 20HP. PROVIDE 60/3 NEMA 4XSS NON-FUSED DISCONNECT AND NEMA 4X LOS SWITCH. PROVIDE 1 1/4", 3#8, #8GND FOR POWER AND 8#14 FOR CONTROLS AND SENSORS. MOUNT DISCONNECTS AND LOS SWITCHES ON STAINLESS STEEL UNITSTRUT FRAME. SEE DETAIL SHEET E007.
 - EQ JET PUMP, 480V, 3Ø, 25HP. PROVIDE 60/3 NEMA 4XSS NON-FUSED DISCONNECT AND NEMA 4X LOS SWITCH. PROVIDE 1 1/4", 3#8, #8GND FOR POWER AND 8#14 FOR CONTROLS AND SENSORS.
 - SENSOR LEVEL, 1 1/4"C AND 4-20mA SIGNAL TO CONTROL PANEL VIA COMMUNICATIONS JUNCTION BOX. PROVIDE STRAIN RELIEF ON CABLE. PROVIDE 120V POWER AS REQUIRED. EXTEND 1"C WITH 6#14, #14GND FOR BACKUP FLOATS.

REVISIONS		DATE	BY	APPD
NO.	DESCRIPTIONS			

DESIGN	RAC	DRAWN	JCM	CHECKED	RAC	APPROVED	RAC

**WASTEWATER TREATMENT PLANT EXPANSION
BLEDSOE COUNTY CORRECTIONAL COMPLEX**
PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06
**INFLUENT EQUALIZATION BASIN PLAN -
ELECTRICAL**

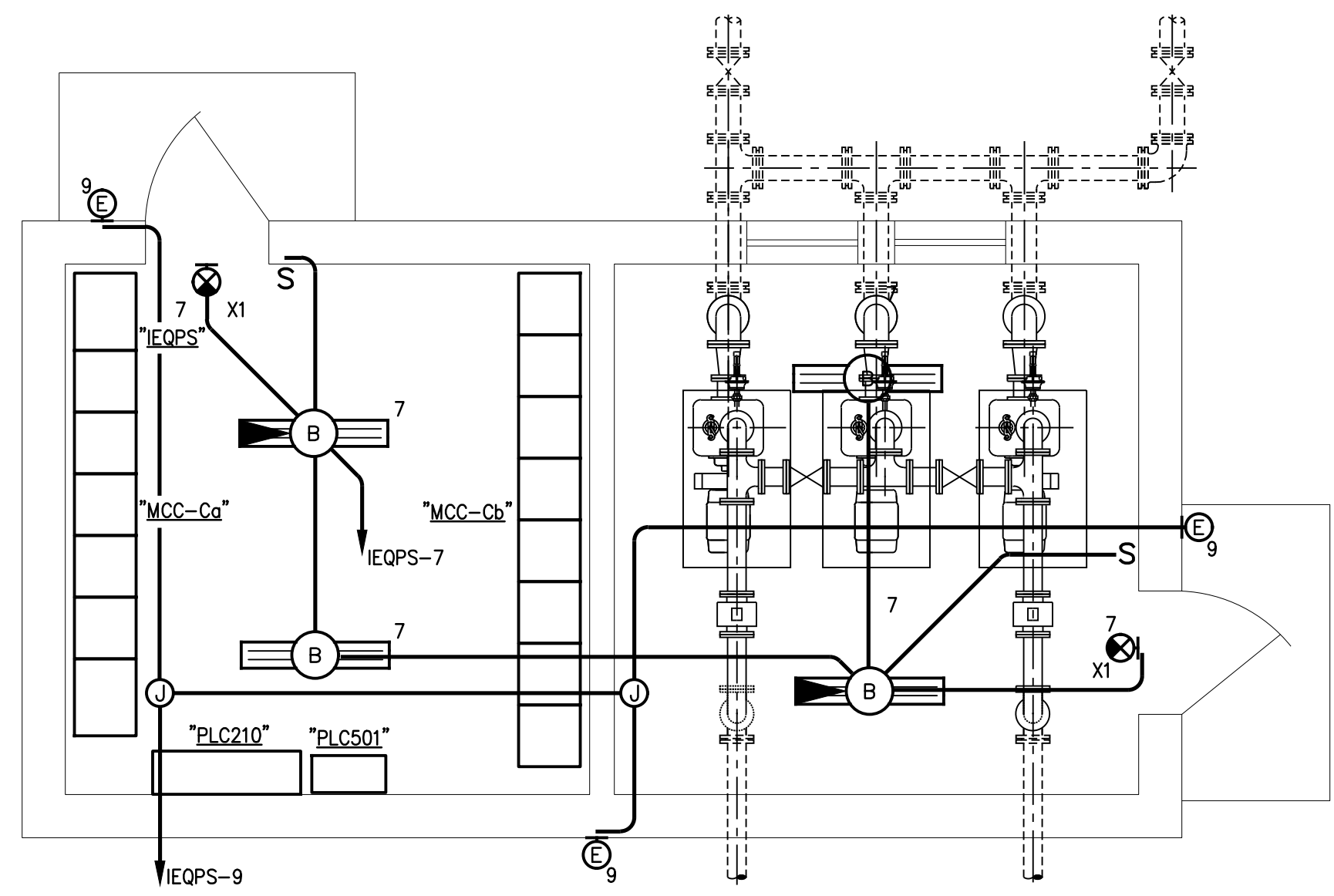


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JOB NO. N16003
ISSUE DATE November 30, 2018
SCALE 1/8"=1'-0"
DRAWING NO. E201

DATE OF PRINT: 3/14/2019 2:44 PM
 CTI PROJECT: N16003-01 (TN Dept. General Services TDEC) Bledsoe County Correctional Complex DRAWING: CTL-C-007 EXISTING SITE PIPING PLAN SHEET 4 (668049) 12/3/19 9:51AM LAYOUT: Model



HVAC WIRING NOTES:

DSS3 DSS3, 1MCA. PROVIDE MEANS OF DISCONNECT AT UNIT. UNIT SERVED FROM RESPECTIVE OUTDOOR UNIT. CONNECT 208V CONDENSATE PUMP IF REQUIRED.

CU3 CU3, 19.0MCA, 208V, 1PH. PROVIDE A 30/2 DISCONNECT WITH 25AMP. FUSES: 3/4"C, 2#10, #10GND.

DRAWING NOTES:

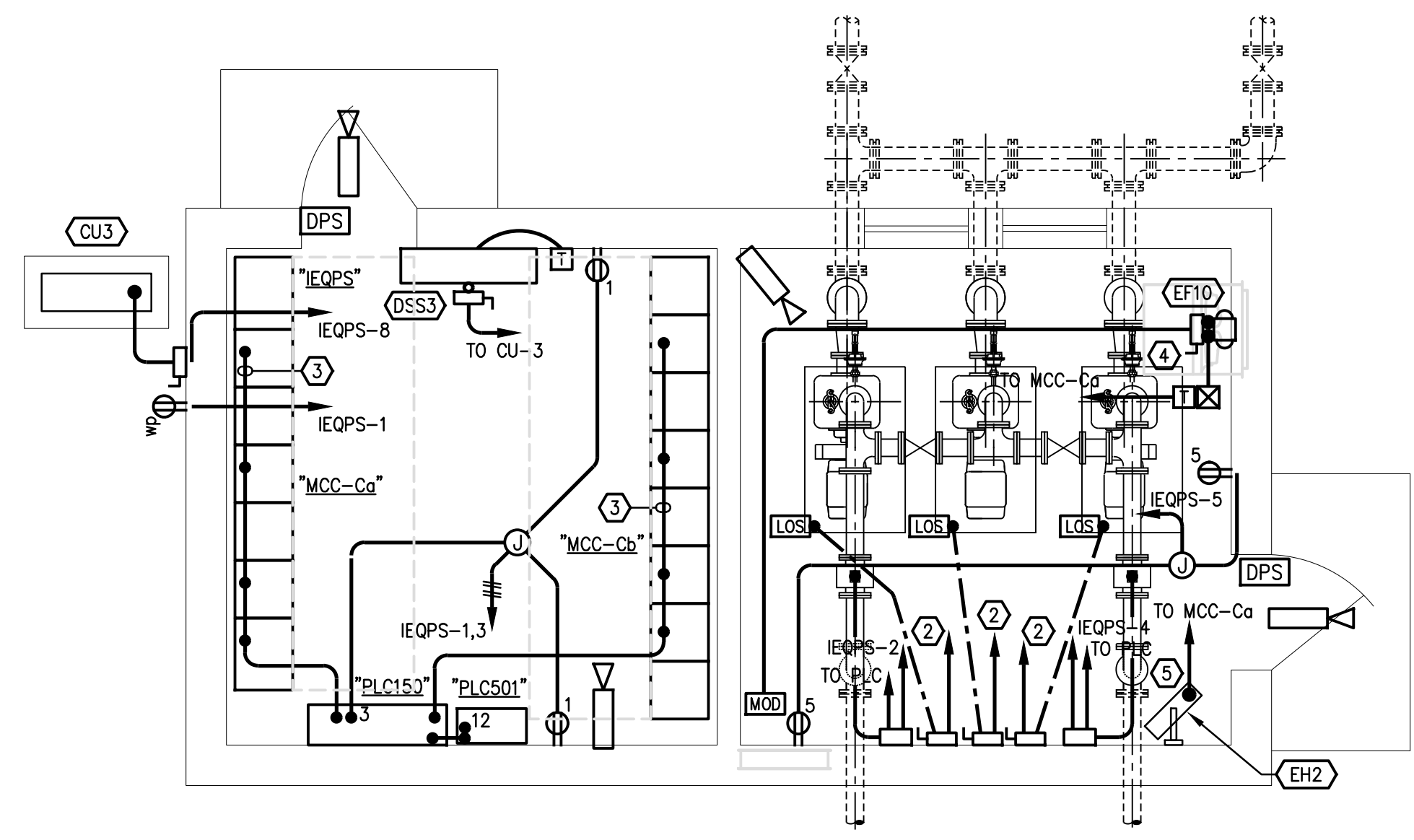
- MAGNETIC FLOWMETER CONTROLLER, 120V. EXTEND 2-3/4"C WITH CONTROL CABLING TO PLC210. EXTEND 3/4"C AND WIRING TO SENSOR. PROVIDE GROUNDING AROUND FLOWMETER PER PER MANUFACTURER'S INSTRUCTIONS.
- SBR INFLUENT EQ PUMP, 480V, 3#, 15HP. PROVIDE 60/3 NEMA 4XSS NON-FUSED DISCONNECT WITH AUX. INTERLOCK KIT AND NEMA 4X LOCK-OUT SWITCH. PROVIDE 1 1/4"C, 3#10, #10GND SHIELDED VFD CABLE, 10#12, #12GND FOR POWER, LOS, HEATER, AND THERMALS TO MCC-Ca
- EXTEND FOUR 2"C FROM MCC-C TO PLC FOR CONTROL WIRING SEE WIRING SCHEDULE FOR CONDUCTOR REQUIREMENTS.
- EF10, 480V, 3PH, 1/4HP. PROVIDE NEMA 4XSS STARTER/DISC WITH HOA CONTROL, RUN LIGHT, RESET, AUX CONTACTS. EXTEND 3/4"C, 3#12, #12GND. INTERLOCK WITH THERMOSTAT AND MOTORIZED DAMPERS.
- EH2, 5.0KW, 480V, 3PH, DISCONNECT PROVIDED WITH HEATER. 3/4"C, 3#12, #12GND.

GENERAL NOTES:

- CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL DEVICES PRIOR TO ROUGH-IN.
- ALL UNDERGROUND CONDUITS SHALL BE CONCRETE ENCASED. SEE DETAIL SHEET E006.
- CONTRACTOR SHALL FIELD ROUTE ALL CONDUIT. ROUTE CONCEALED, WHEN EVER POSSIBLE.
- ALL EXPOSED OR SURFACE-MOUNTED CONDUITS AND FITTINGS SHALL BE RIGID GALVANIZED STEEL CONDUIT.
- FINAL CONDUIT CONNECTIONS TO MECHANICAL EQUIPMENT SHALL BE LIQUDTIGHT FLEXIBLE METAL CONDUIT.
- ALL SPARE CONDUITS SHALL BE EQUIPPED WITH NYLON PULLCORDS.
- THERE SHALL BE NO SURFACE CONDUITS RUN ON TOP OF WALKWAYS. CONCEAL WHERE POSSIBLE.
- ALL JUNCTION BOXES, 4X EQUIPMENT, ENCLOSURES WP DEVICE ENCLOSURES, AND ALL BRACKETS, CLAMPS, AND FASTENERS SHALL BE 304 STAINLESS STEEL. PROVIDE EXPLOSION PROOF BOXES IN CLASSIFIED AREAS.
- PROVIDE CONDUIT EXPANSION JOINT FITTINGS FOR ALL CONDUITS IN CONCRETE SLABS THAT CROSS EXPANSION JOINTS.
- ALL RECEPTACLES SHALL BE INSTALLED AT 48" AFF UNLESS NOTED OTHERWISE.

SBR INFLUENT PUMP STATION FLOOR PLAN - LIGHTING

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



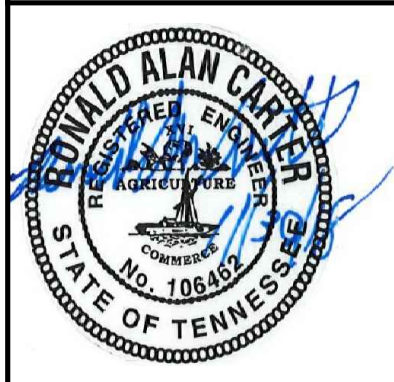
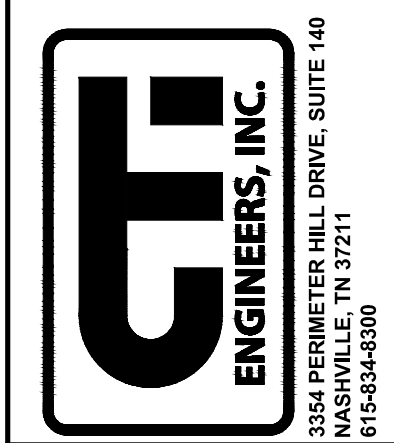
SBR INFLUENT PUMP STATION FLOOR PLAN - POWER AND COMMUNICATIONS

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

REVISIONS		DATE	BY	APPD
NO.	DESCRIPTIONS			

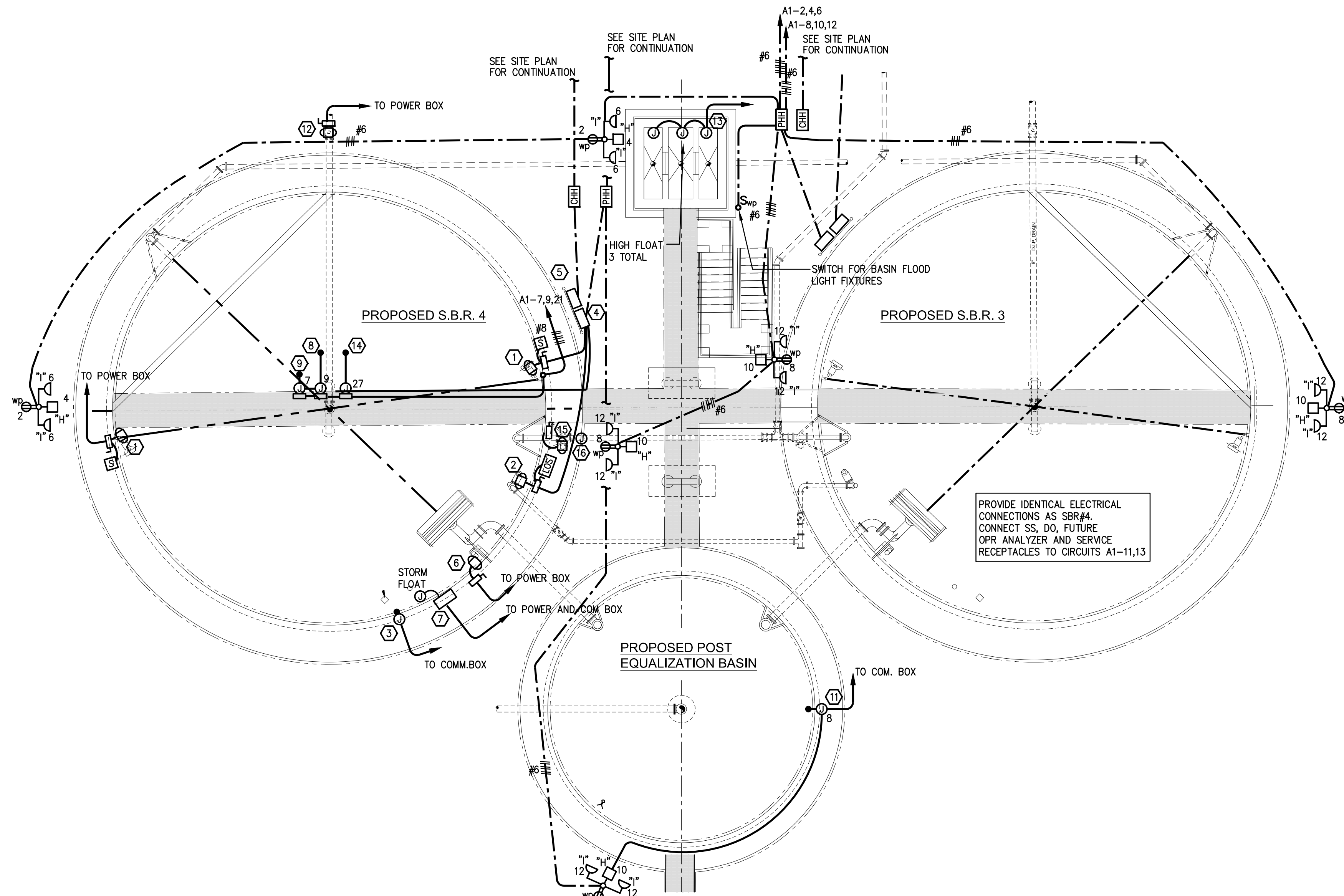
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DRAWN	JCM				

WASTEWATER TREATMENT PLANT EXPANSION
BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06
SBR INFLUENT PUMP STATION FLOOR PLAN - ELECTRICAL



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JOB NO.	N16003
ISSUE DATE	November 30, 2018
SCALE	1/4"=1'-0"
DRAWING NO.	E301



ENLARGED SBR AND BASIN PLANS - ELECTRICAL

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

DRAWING NOTES:

- ① TANK MIXER, 480V, 3Ø, 4HP. PROVIDE 30/3 NEMA 4XSS NON-FUSED DISCONNECT AND NEMA 4X LOCAL SWITCH. PROVIDE 1 1/4" C, 3#10, #10GND FOR POWER AND 8#14 FOR CONTROLS AND SENSORS. CONNECT LOCAL AND TEMP SWITCH. MOUNT DISCONNECT AND SWITCH TO RAILING. SEE TYPICAL RACK/RAILING MOUNT DETAIL SHEET E007.
- ② WASTE SLUDGE PUMP, 480V, 3Ø, 3HP. PROVIDE 30/3 NEMA 4XSS NON FUSED DISCONNECT AND NEMA 4X LOS SWITCH. PROVIDE 1 1/4" C, 3#10, #10GND FOR POWER AND 8#14 FOR CONTROLS AND SENSORS. CONNECT LOS AND SEAL AND TEMP SWITCHES. MOUNT DISCONNECT AND LOS SWITCH TO RAILING AS REQUIRED. SEE TYPICAL RACK/RAILING MOUNT DETAIL SHEET E007. PROVIDE STRAIN RELIEF ON MOTOR CABLE.
- ③ LEVEL TRANSMITTER, 1 1/4" C AND 4-20mA SIGNAL TO SBR CONTROL PANEL VIA COMMUNICATIONS JUNCTION BOX. PROVIDE STRAIN RELIEF ON CABLE. 1" C WITH 4#14, #14GND FOR STORM FLOAT.
- ④ NEMA 4XSS POWER JUNCTION BOX, 24"Wx24"Hx12"D. MOUNT ON RACK OFF STRUCTURE WITH STAINLESS STEEL CHANNEL. EXTEND ONLY LINE VOLTAGE POWER AND COMMUNICATIONS THROUGH THIS BOX.
- ⑤ NEMA 4XSS COMMUNICATIONS JUNCTION BOX, 24"Wx24"Hx12"D. MOUNT ON RACK OFF STRUCTURE WITH STAINLESS STEEL CHANNEL. EXTEND ALL LOW VOLTAGE COMMUNICATIONS THROUGH THIS BOX.

- ⑥ DECANter, 480V, 3Ø, 1/2HP. PROVIDE 30/3 NEMA 4XSS NON-FUSED DISCONNECT WITH INTERLOCK KIT. PROVIDE 1 1/4" C, 3#10, #10GND FOR POWER AND 8#14 FOR CONTROLS. MOUNT DISCONNECT TO RAILING. SEE TYPICAL RACK/RAILING MOUNT DETAIL SHEET E007.
- ⑦ DECANter STATION, 120V. EXTEND 24#14, 2#10, #10GND, 1" AND 1 1/4" C TO SBR CONTROL CABINET. CONNECT LIMIT AND FLOAT SWITCH WIRING AS DIRECTED BY MANUFACTURER.
- ⑧ SUSPENDED SOLIDS TRANSMITTER, 1 1/2" C AND 4-20mA SIGNAL TO SBR CONTROL PANEL VIA COMMUNICATIONS JUNCTION BOX. EXTEND 1 1/2" SCHEDULE 80 PVC AND CABLE INTO SBR AS INDICATED ON CIVIL DRAWINGS. CONNECT 120V TO ANALYZER AS INDICATED.
- ⑨ DO SENSOR, 1 1/4" C AND 4-20mA SIGNAL TO SBR CONTROL PANEL VIA COMMUNICATIONS JUNCTION BOX. EXTEND 1 1/4" SCHEDULE 80 PVC AND CABLE INTO SBR AS INDICATED ON CIVIL DRAWINGS. CONNECT 120V TO ANALYZER AS INDICATED.
- ⑩ BLOWER CONTROL VALVE, 120V. PROVIDE 30/1 NEMA 4XSS NON-FUSED DISCONNECT. PROVIDE 1" C, 2#10, #10GND, 7#14 FOR CONTROLS TO SBR CONTROL CABINET MOUNT DISCONNECT TO RAILING. SEE TYPICAL RACK/RAILING MOUNT DETAIL SHEET E007.
- ⑪ SENSOR LEVEL, 1 1/4" C AND 4-20mA SIGNAL TO SBR CONTROL PANEL VIA COMMUNICATIONS JUNCTION BOX. PROVIDE STRAIN RELIEF ON CABLE. PROVIDE 120V POWER AS INDICATED.

- ⑫ PURGE VALVE, 120V. PROVIDE 30/1 NEMA 4XSS NON-FUSED DISCONNECT PROVIDE 1" C, 6#12, #12GND TO SBR CONTROL CABINET. SEE TYPICAL EQUIPMENT RACK/RAILING DETAIL SHEET E007.
- ⑬ 1" C WITH 8#14, #14GND FOR HIGH LEVEL FLOATS IN THE SPLITTER BOX. MOUNTED ONE FLOAT IN EACH SECTION. EXTEND TO SBR PLC.
- ⑭ FUTURE ORP TRANSMITTER, 1 1/2" C AND 4-20mA SIGNAL TO SBR CONTROL PANEL VIA COMMUNICATIONS JUNCTION BOX. EXTEND 1 1/2" SCHEDULE 80 PVC AND CABLE INTO SBR AS INDICATED ON CIVIL DRAWINGS. CONNECT 120V TO ANALYZER AS INDICATED.
- ⑮ AIR CONTROL VALVE, 120V. PROVIDE 30/1 NEMA 4XSS NON-FUSED DISCONNECT PROVIDE 1" C, 6#12, 2#10, #12GND TO SBR CONTROL CABINET. SEE TYPICAL EQUIPMENT RACK/RAILING DETAIL SHEET E007.
- ⑯ AIR FLOW TRANSMITTER, 1" C AND 4-20mA SIGNAL TO SBR CONTROL PANEL. COORDINATE EXACT LOCATION IN FIELD.

GENERAL NOTES:

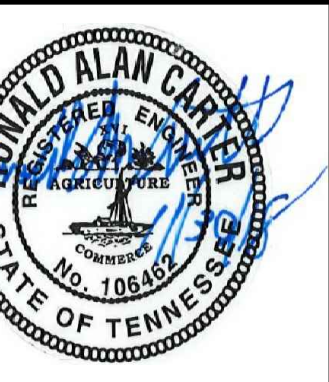
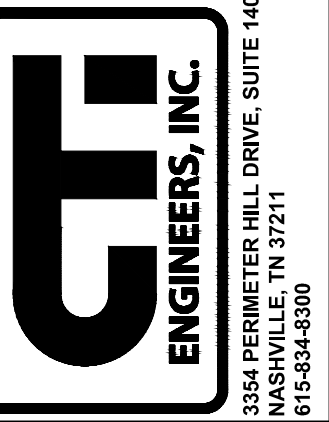
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4. ALL EXPOSED OR SURFACE-MOUNTED CONDUITS AND FITTINGS SHALL BE RIGID GALVANIZED STEEL. ATTACH CONDUITS WITH 2-HOLE STRAPS.
5. FINAL CONDUIT CONNECTIONS TO MECHANICAL EQUIPMENT SHALL BE LIQUIDTIGHT FLEXIBLE METAL CONDUIT.
6. ALL JUNCTION BOXES, NEMA 4XSS EQUIPMENT ENCLOSURES, WP DEVICE ENCLOSURES, AND ALL BRACKETS, CLAMPS, AND FASTENERS SHALL BE 304 STAINLESS STEEL.
7. ALL WET WELL AND TANK AREAS SHALL BE CLASSIFIED AS CLASS 1 DIVISION 1 HAZARDOUS LOCATIONS. ALL WIRING SHALL BE LISTED FOR HAZARDOUS USE IN THESE AREAS. PROVIDE CONDUIT SEALS FOR ALL WIRING LEAVING CLASSIFIED ZONES. INSTALL PER NEC.
8. NEC CLASS 1 DIVISION 2 GROUP D AREA EXTENDS 18" ABOVE THE TOP OF BASINS AND INCLUDES AN ENVELOPE EXTENDING 18" BEYOND THE BASINS EXTERIOR WALLS. ALSO CLASSIFIED AREA ENVELOPE EXISTS 18" ABOVE GRADE EXTENDING 10 FEET HORIZONTALLY FROM BASIN EXTERIOR WALLS. PROVIDE CONDUIT SEALS, EXPLOSION PROOF ENCLOSURES AS REQUIRED BY NEC 501.
9. MAINTAIN CODE CLEARANCE IN FRONT OF ALL ELECTRICAL DEVICES MOUNTED ON RAILINGS.

REVISIONS		DATE	BY	APPD
NO.	DESCRIPTIONS			

DESIGN	NO.	DESCRIPTIONS	DATE	BY	APPD
RAC					
DRAWN	JCM				
CHECKED	RAC				
APPROVED	RAC				

(BLUE OAKS PROJECTS)
AEDC WTP IMPROVEMENTS
REPAIR SLOW MIXERS

ENLARGED SBR AND BASIN PLANS -
ELECTRICAL

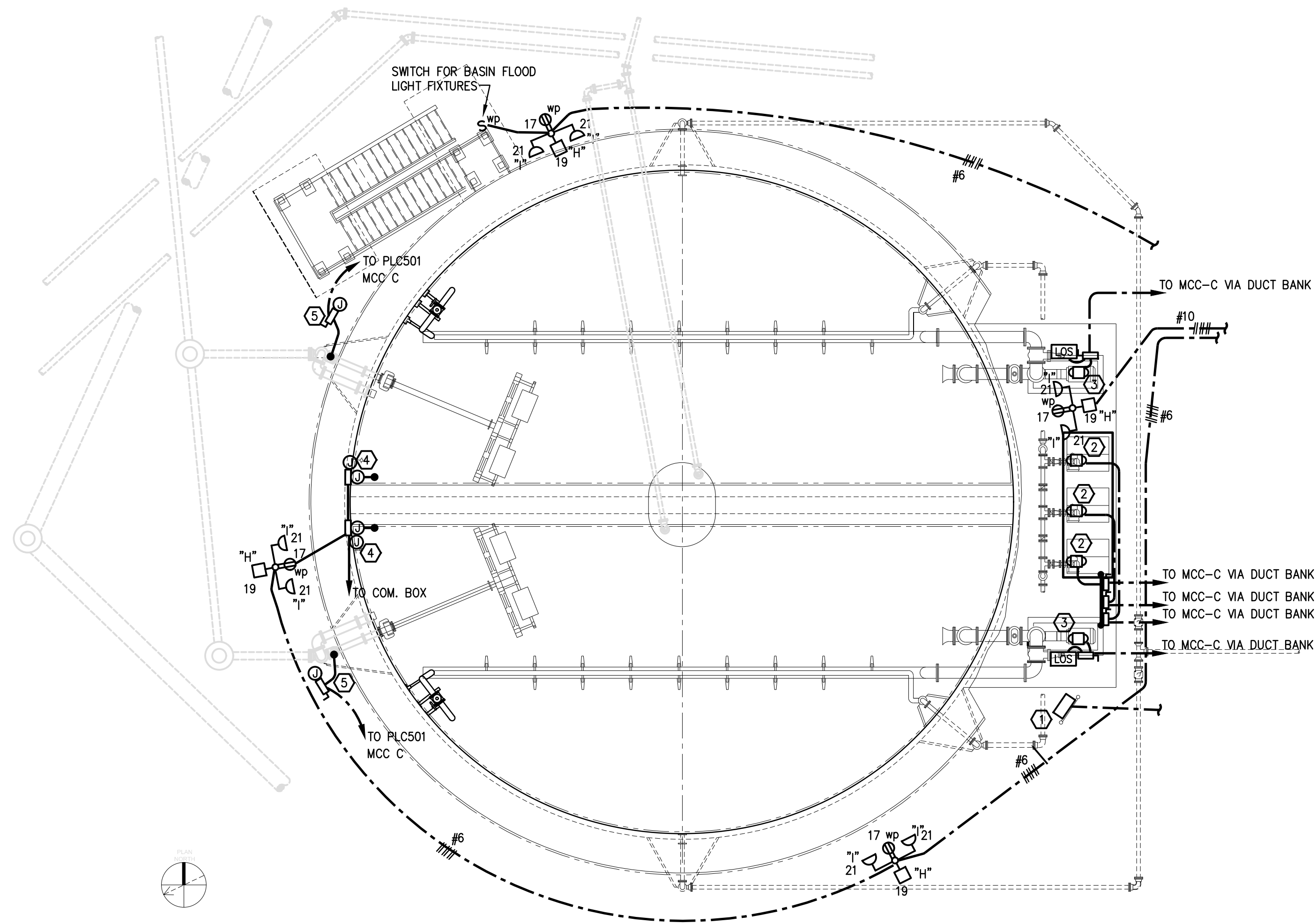


CALL BEFORE DIGGING
TENNESSEE ONE CALL - CALL THREE BUSINESS DAYS BEFORE DIGGING. PH. 1-800-351-1111

WWR ENGINEERS, INC.
5417 Ball Camp Pike
Knoxville, TN 37921
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West, Welch, Reed Engineers, Inc.
WWR PROJECT# 119015

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JOB NO.	C19011
ISSUE DATE	
ISSUE DATE	
SCALE	1/8"=1'-0"
DRAWING NO.	E501



AEROBIC DIGESTER PLAN - ELECTRICAL

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

GENERAL NOTES:

1. CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL DEVICES PRIOR TO ROUGH-IN.
2. REFER TO "CONTROL AND MONITORING CONNECTION SCHEDULE" ON SHEET E001 FOR CONTROL CONDUCTORS CONNECTION POINTS, QUANTITY AND SIZE.
3. CONTRACTOR SHALL FIELD ROUTE ALL CONDUIT. ROUTE CONCEALED, WHEN EVER POSSIBLE.
4. ALL EXPOSED OR SURFACE-MOUNTED CONDUITS AND FITTINGS SHALL BE RIGID GALVANIZED STEEL. ATTACH CONDUITS WITH 2-HOLE STRAPS.
5. FINAL CONDUIT CONNECTIONS TO MECHANICAL EQUIPMENT SHALL BE LIQUIDTIGHT FLEXIBLE METAL CONDUIT.
6. ALL JUNCTION BOXES, NEMA 4XSS EQUIPMENT ENCLOSURES, WP DEVICE ENCLOSURES, AND ALL BRACKETS, CLAMPS, AND FASTENERS SHALL BE 304 STAINLESS STEEL.
7. ALL WET WELL AND TANK AREAS SHALL BE CLASSIFIED AS CLASS 1 DIVISION 1 HAZARDOUS LOCATIONS. ALL WIRING SHALL BE LISTED FOR HAZARDOUS USE IN THESE AREAS. PROVIDE CONDUIT SEALS FOR ALL WIRING LEAVING CLASSIFIED ZONES. INSTALL PER NEC.
8. NEC CLASS 1 DIVISION 2 GROUP D AREA EXTENDS 18" ABOVE THE TOP OF BASINS AND INCLUDES AN ENVELOPE EXTENDING 18" BEYOND THE BASINS EXTERIOR WALLS. ALSO CLASSIFIED AREA ENVELOPE EXISTS 18" ABOVE GRADE EXTENDING 10 FEET HORIZONTALLY FROM BASIN EXTERIOR WALLS. PROVIDE CONDUIT SEALS, EXPLOSION PROOF ENCLOSURES AS REQUIRED BY NEC 501.

DRAWING NOTES:

- 1 NEMA 4XSS COMMUNICATIONS JUNCTION BOX, 24"Wx24"Hx12"D. MOUNT TO SIDE OF STRUCTURE WITH STAINLESS STEEL CHANNEL AS HIGH AS PRACTICAL. EXTEND ALL LOW VOLTAGE COMMUNICATIONS THROUGH THIS BOX
- 2 DIGESTER BLOWER, 480V, 3ø, 20HP. PROVIDE 60/3 NEMA 4XSS NON-FUSED DISCONNECT AND NEMA 4X LOS SWITCH. PROVIDE 1 1/4"C, 3ø, #8GND FOR POWER AND 8#14 FOR CONTROLS AND SENSORS. MOUNT DISCONNECTS AND LOS SWITCHES ON STAINLESS STEEL UNISTRUT FRAME. SEE DETAIL SHEET E007.
- 3 DIGESTER PUMP, 480V, 3ø, 25HP. PROVIDE 60/3 NEMA 4XSS NON-FUSED DISCONNECT AND NEMA 4X LOS SWITCH. PROVIDE 1 1/4"C, 3ø, #8GND FOR POWER AND 8#14 FOR CONTROLS AND SENSORS.
- 4 SUBMERSIBLE LEVEL, 1 1/4"C AND 4-20mA SIGNAL TO DIGESTER PLC501 VIA COMMUNICATIONS JUNCTION BOX. PROVIDE STRAIN RELIEF ON CABLE. PROVIDE 120V POWER AS REQUIRED. INSTALL SENSORS IN 3"DIA STILLING WELLS. EXTEND 1'C, WITH 6#14, #14GND FOR BACKUP FLOATS.
- 5 DECANTER, 480V, 3ø, 1/2HP. PROVIDE 30/3 NEMA 4XSS NON-FUSED DISCONNECT. PROVIDE 1 1/4"C, 3ø#10, #10GND FOR POWER AND TWO 1"C FOR CONTROLS. MOUNT DISCONNECT ON UNISTRUT FRAME. SEE MOUNT DETAIL SHEET E007.

REVISIONS	NO.	DESCRIPTIONS	DATE	BY	APPD

DESIGN	DRAWN	CHECKED	APPROVED
RAC	JCM	RAC	RAC

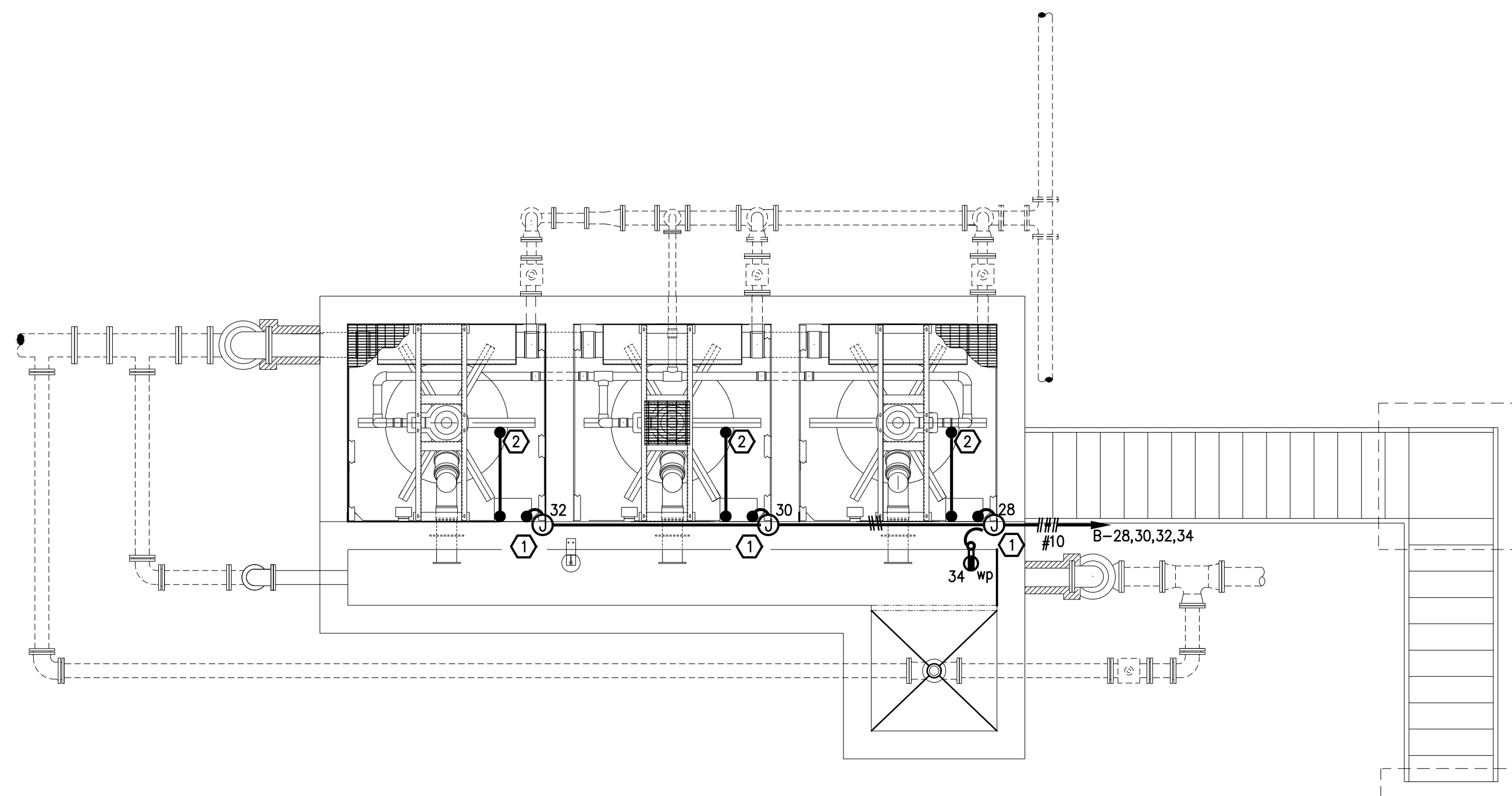
(BLUE OAKS PROJECTS)
AEDC WTP IMPROVEMENTS
REPAIR SLOW MIXERS
AEROBIC DIGESTER PLAN -
ELECTRICAL



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West, Welch, Reed Engineers, Inc.
WWR PROJECT# 119015
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JOB NO. C19011
ISSUE DATE ISSUE DATE
SCALE 1/8"=1'-0"
DRAWING NO. E601



FILTER FLOOR PLAN - ELECTRICAL

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

DRAWING NOTES:

- ① SAND FILTER CONTROL PANEL, 120V, 20A. PROVIDE NEMA 4XSS JUNCTION BOX AND CONNECT CONTROL PANEL. PROVIDE 1" C, 8#8, #10GND. MOUNT JUNCTION BOX TO RAILING AS REQUIRED.
- ② SAND FILTER LEVEL SWITCH. PROVIDE 1" C AND CONTROL CABLING AS RECOMMENDED BY FILTER MANUFACTURER. PROVIDE STRAIN RELIEF FOR CABLING. EXTEND TO FLC AS REQUIRED.

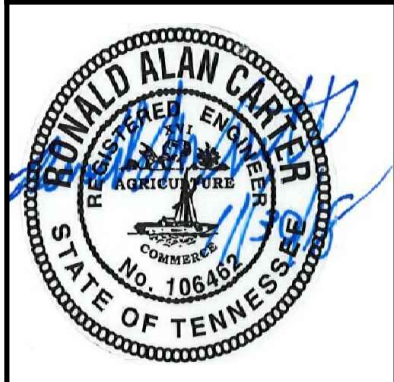
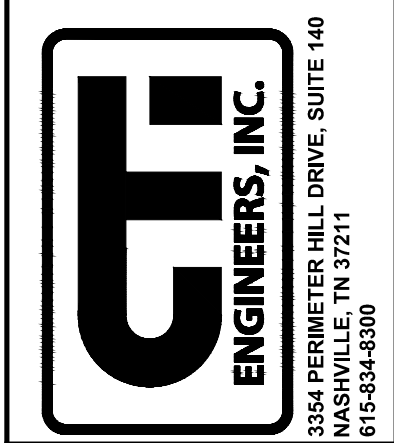
GENERAL NOTES:

1. CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL DEVICES PRIOR TO ROUGH-IN.
2. REFER TO "CONTROL AND MONITORING CONNECTION SCHEDULE" ON SHEET E001 FOR CONTROL CONDUCTORS CONNECTION POINTS, QUANTITY AND SIZE.
3. CONTRACTOR SHALL FIELD ROUTE ALL CONDUIT. ROUTE CONCEALED, WHEN EVER POSSIBLE.
4. ALL EXPOSED OR SURFACE-MOUNTED CONDUITS AND FITTINGS SHALL BE RIGID GALVANIZED STEEL.
5. FINAL CONDUIT CONNECTIONS TO MECHANICAL EQUIPMENT SHALL BE LIQUIDTIGHT FLEXIBLE METAL CONDUIT.
6. ALL JUNCTION BOXES, NEMA 4XSS EQUIPMENT ENCLOSURES, WP DEVICE ENCLOSURES, AND ALL BRACKETS, CLAMPS, AND FASTENERS SHALL BE 304 STAINLESS STEEL.
7. ALL WET WELL AND TANK AREAS SHALL BE CLASSIFIED AS CLASS 1 DIVISION 1 HAZARDOUS LOCATIONS. ALL WIRING SHALL BE LISTED FOR HAZARDOUS USE IN THESE AREAS. PROVIDE CONDUIT SEALS FOR ALL WIRING LEAVING CLASSIFIED ZONES. INSTALL PER NEC.
8. "EP" INDICATES EXPLOSION PROOF CLASS 1 DIV 1 DEVICE. "GF" INDICATES PROVIDE GROUND FAULT UNIT WITH RECEPTACLE.

DESIGN	REVISIONS			
	NO.	DESCRIPTIONS	DATE	BY
RAC				APPD
DRAWN	JCM			
CHECKED	RAC			
APPROVED	RAC			

(BLUE OAKS PROJECTS)
AEDC WTP IMPROVEMENTS
REPAIR SLOW MIXERS

FILTER FLOOR PLAN -
ELECTRICAL



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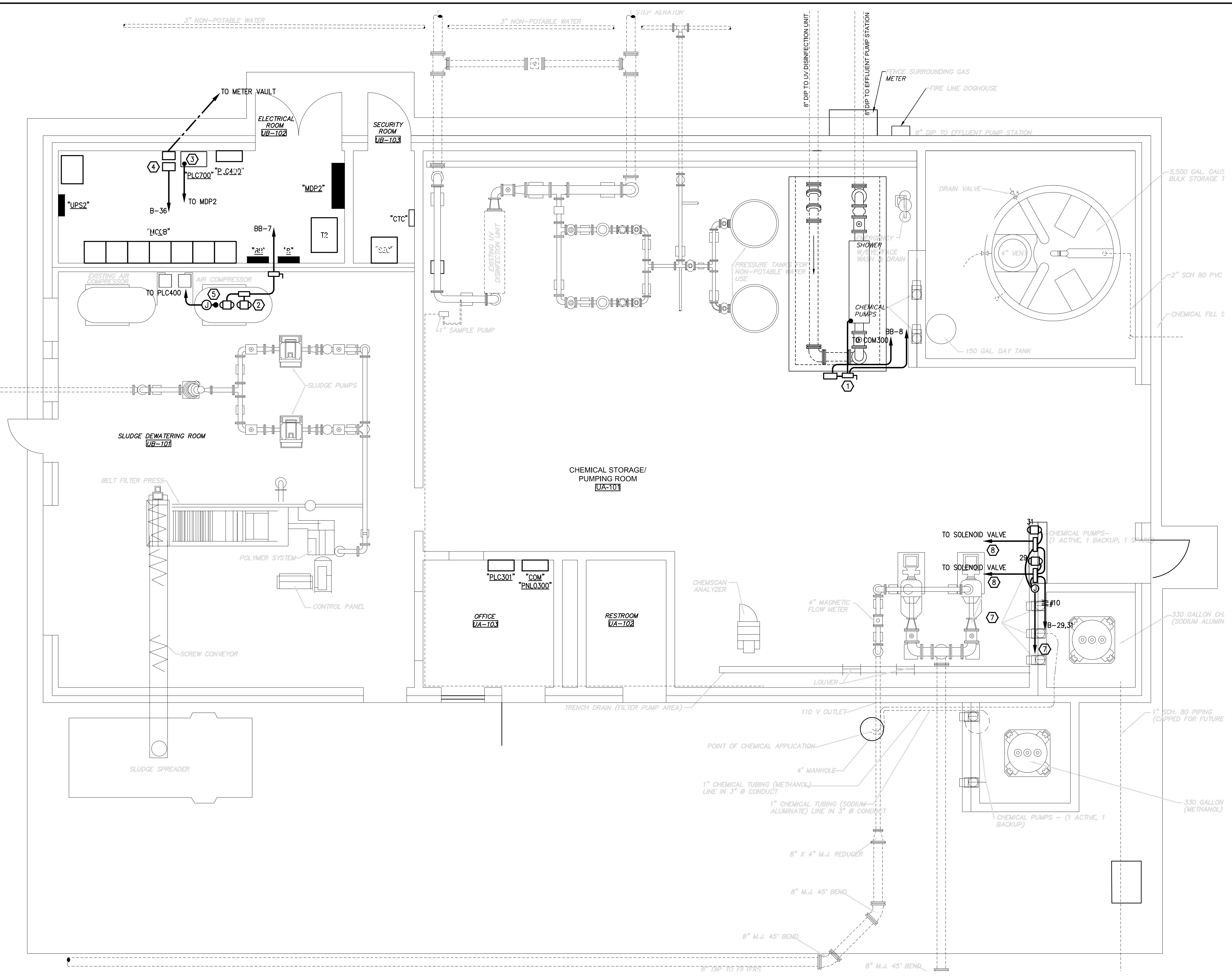
JOB NO.
C19011

ISSUE DATE
ISSUE DATE

SCALE
1/4"=1'-0"

DRAWING NO.
E701

CTT PROJECT: N16003-01 (TN Dept. General Services TDEC) Bledsoe County Correctional Complex. DRAWING: CTT - C-007 EXISTING SITE PIPING PLAN SHEET 4 (688049/12/19 2:21PM) LAYOUT: Model
 DATE OF PRINT: 3/14/2019 2:50 PM



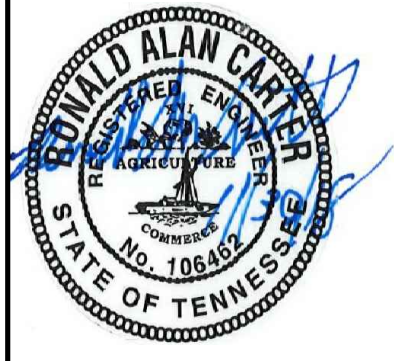
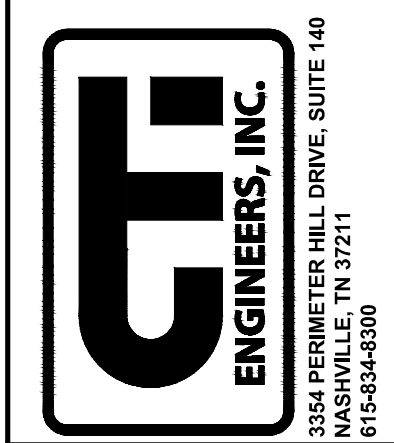
- DRAWING NOTES:**
- 1 UV DISINFECTION UNIT, 240V, 1Ø, 3.5KW. PROVIDE 5KVA NEMA 4XSS 480-120/240V, 1Ø TRANSFORMER AND 480V, 3Ø/2 FUSED DISCONNECT ON PRIMARY SIDE OF TRANSFORMER. EXTEND 3/4"Ø, 2#12, #12GND. MOUNT DISCONNECT AND TRANSFORMER ON STAINLESS STEEL UNISTRUT FRAME. 3/4"Ø WITH ETHERNET TO COM300
 - 2 AIR COMPRESSOR, 480V, 3Ø, 5HP. PROVIDE 3Ø/3 NEMA 4XSS NON-FUSED DISCONNECT. PROVIDE 3/4"Ø, 4#12, #12GND. LEAD/LAG STARTERS PROVIDED WITH COMPRESSOR.
 - 3 NEW EFFLUENT PUMP STATION 2-15HP, 480V, 3PH, 4W, 80A. 1 1/4"Ø 4#4, #6GND TO EXISTING MCC B. PROVIDE NEW 80/3 BREAKER IN IN MDP2. EXTEND 3/4"Ø AND WIRING FOR MONITORING TO COM 300
 - 4 TWO EFFLUENT FLOWMETERS, 120V, 3/4"Ø WITH MONITORING WIRING TO PLC700.
 - 5 LOW AIR SWITCH. PROVIDE 1"Ø AND CONTROL CABLING AS RECOMMENDED BY MANUFACTURER.
 - 6 SODIUM ALUMINATE METERING PUMPS, 120V, 20A. PROVIDE NEMA 4XSS JUNCTION BOX AND CONNECT CONTROL PANEL. PROVIDE 3/4"Ø, 2#12, #12GND.
 - 7 METERING PUMP CONTROLS. EXTEND TWO 1 1/4"Ø TO PLC301. EXTEND 3/4"Ø FROM JUNCTION BOX TO EACH PUMP VFD.
 - 8 INTERLOCK VFD WITH POTABLE WATER SOLENOID VALVE AS REQUIRED.

CHEMICAL BUILDING FLOOR PLAN - ELECTRICAL

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

REVISIONS		DESIGN	NO.	DATE	BY	APPD
		RAC				
		DRAWN	JCM			
		CHECKED	RAC			
		APPROVED	RAC			

WASTEWATER TREATMENT PLANT EXPANSION
BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06
CHEMICAL BUILDING FLOOR PLAN - ELECTRICAL



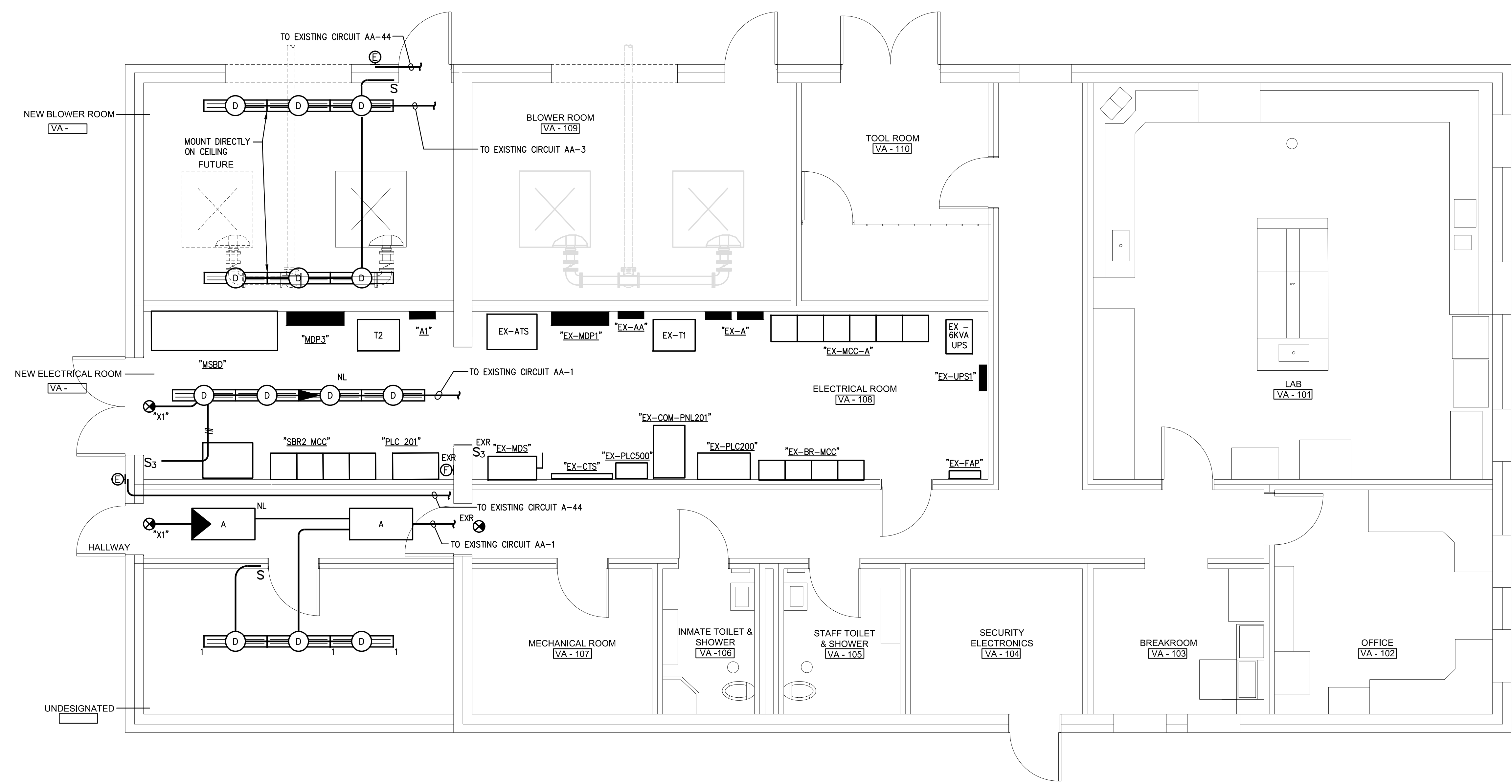
WWR ENGINEERS, INC.
 5417 Ball Camp Pike
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 Fax: (865) 588-2434
West, Welch, Reed Engineers, Inc.
WWR PROJECT# 118057
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JOB NO.	N16003
ISSUE DATE	November 30, 2018
SCALE	1/4"=1'-0"
DRAWING NO.	E801

CTI PROJECT: N16003-01 (TN Dept. General Services, TDEC) Bledsoe County Correctional Complex, DRAWING: CTI - C-007 EXISTING SITE PIPING PLAN SHEET 1 (666049/12/11/28/18 11:59AM), LAYOUT: Model

DATE OF PRINT: 3/14/2019 2:51 PM

GENERAL NOTES:
1. "EXR" INDICATES EXISTING TO BE REMOVED.

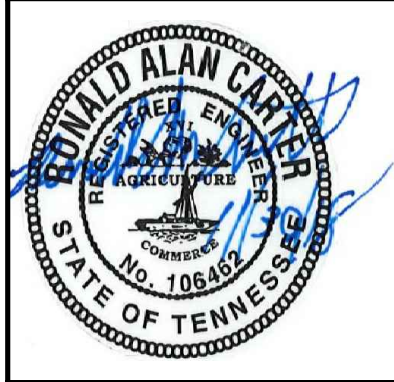
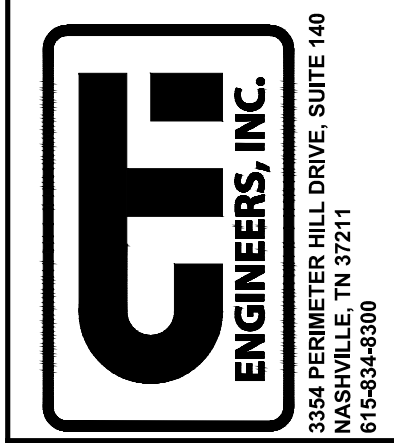


LAB/CONTROL BUILDING FLOOR PLAN - LIGHTING
SCALE: 1/4"=1'-0"

REVISIONS		DESIGN	NO.	DATE	BY	APPD
		RAC				
		DRAWN	JCM			
		CHECKED	RAC			
		APPROVED	RAC			

WASTEWATER TREATMENT PLANT EXPANSION
BLEDSOE COUNTY CORRECTIONAL COMPLEX
PIKEVILLE, BLED SOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

LAB/CONTROL BUILDING FLOOR PLAN - LIGHTING



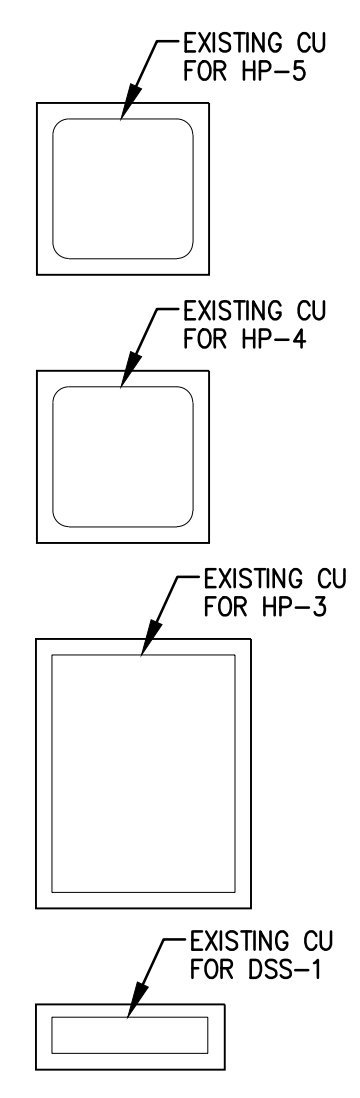
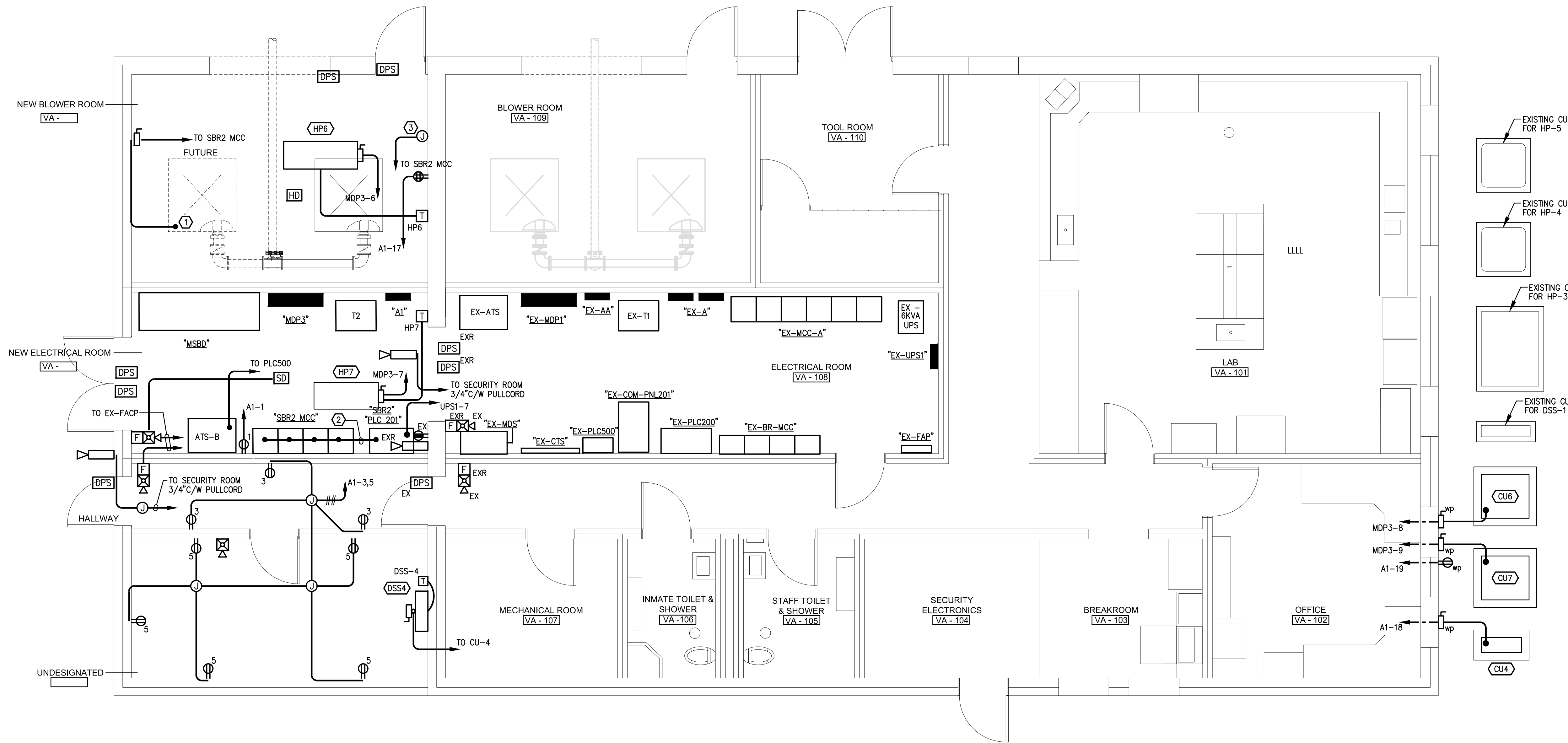
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JOB NO.	N16003
ISSUE DATE	November 30, 2018
SCALE	1/4"=1'-0"
DRAWING NO.	E-901

- HVAC WIRING NOTES:**
- DSS4** DSS4, 1MCA. PROVIDE MEANS OF DISCONNECT AT UNIT. UNIT SERVED FROM RESPECTIVE OUTDOOR UNIT. CONNECT 208V CONDENSATE PUMP IF REQUIRED.
 - CU4** CU4, 19.0MCA, 208V., 1PH. PROVIDE A 30/2 DISCONNECT WITH 25AMP. FUSES. 3/4"C, 2#10, #10GND.
 - CU6** CU6, 8MCA, 480V., 3PH. PROVIDE A NEMA 4XSS 20/3 DISCONNECT WITH 15AMP FUSES. 3/4"C, 3#12, #12GND.
 - CU7** CU7, 8MCA, 480V., 3PH. PROVIDE A NEMA 4XSS 20/3 DISCONNECT WITH 15AMP FUSES. 3/4"C, 3#12, #12GND.
 - HP6** HP6, 11.2MCA, 480V., 3PH. PROVIDE A NEMA 4XSS 20/3 DISCONNECT WITH 15AMP FUSES. 3/4"C, 3#12, #12GND.
 - HP7** HP7, 11.2MCA, 480V., 3PH. PROVIDE A NEMA 4XSS 20/3 DISCONNECT WITH 15AMP FUSES. 3/4"C, 3#12, #12GND.

- GENERAL NOTES:**
1. "EX" INDICATES EXISTING TO BE REMOVED.
- NOTES:**
- 1 BLOWER 50HP, 480V, 3PH. 1 1/2"C, 3#3, #4GND, 8#14 PROVIDE 100/3 NEMA 4XSS NON FUSED DISCONNECT.
 - 2 EXTEND FOUR 1 1/2"C FROM SBR2 MCC TO PLC 201 FOR CONTROL WIRING SEE WIRING SCHEDULE FOR CONDUCTOR REQUIREMENTS.
 - 3 FUTURE BLOWER 50HP, 480V, 3PH. 1 1/2"C WITH NYLON PULLCORD



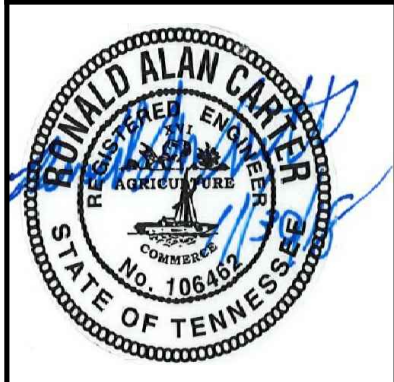
LAB/CONTROL BUILDING FLOOR PLAN - POWER AND COMMUNICATIONS
 SCALE: 1/4"=1'-0"

REVISIONS		DATE	BY	APPD
NO.	DESCRIPTIONS			

DESIGN	RAC	DRAWN	JCM	CHECKED	RAC	APPROVED	RAC

(BLUE OAKS PROJECTS)
 AEDC WTP IMPROVEMENTS
 REPAIR SLOW MIXERS

LAB/CONTROL BUILDING FLOOR PLAN -
 POWER AND COMMUNICATIONS



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JOB NO.	C19011
ISSUE DATE	
ISSUE DATE	
SCALE	1/4"=1'-0"
DRAWING NO.	E-902

HVAC WIRING NOTES:

DSS2 DSS2, 1MCA. PROVIDE MEANS OF DISCONNECT AT UNIT. UNIT SERVED FROM RESPECTIVE OUTDOOR UNIT. CONNECT 208V CONDENSATE PUMP IF REQUIRED.

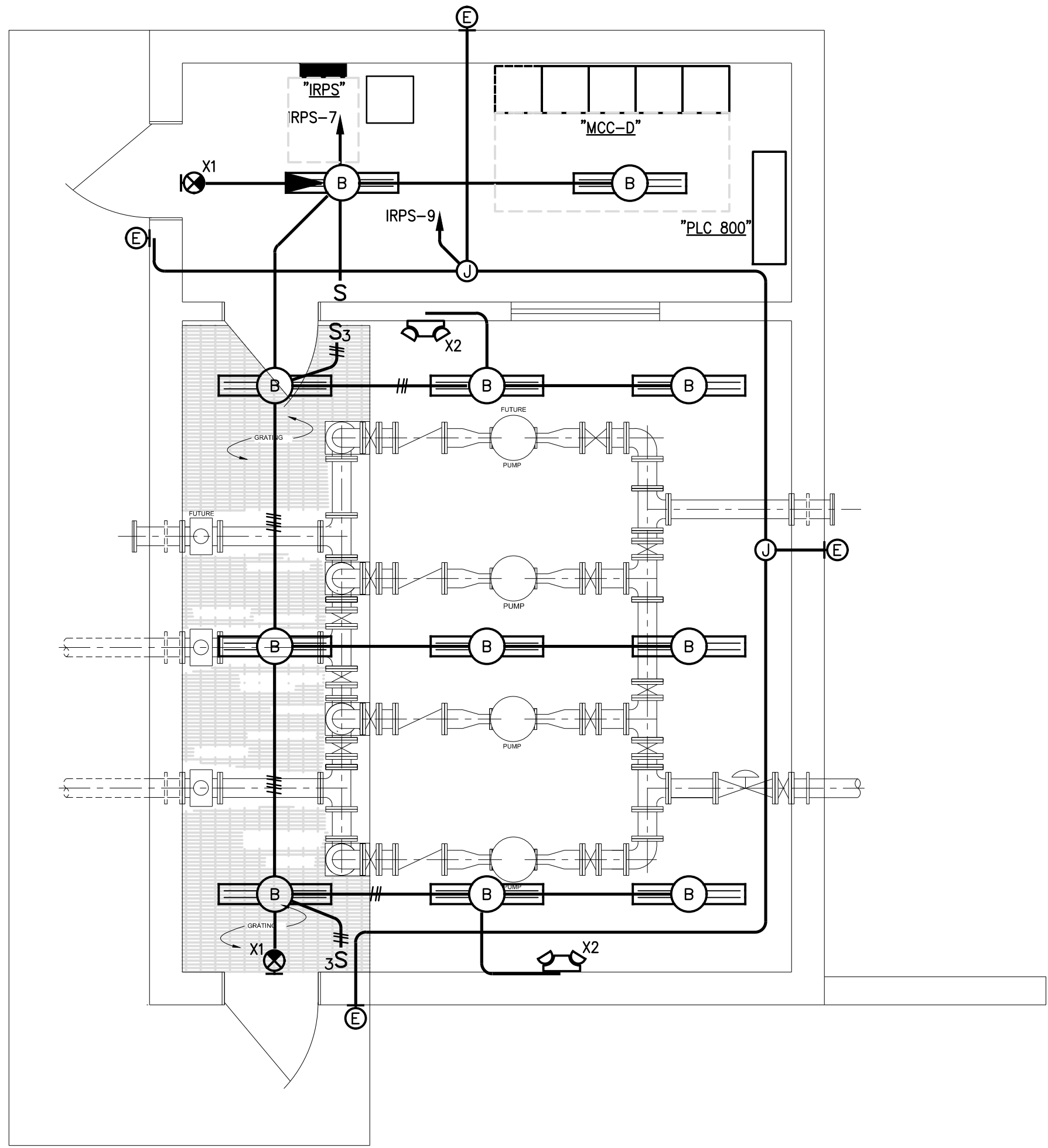
CU2 CU2, 18.0MCA, 208V., 1PH. PROVIDE A 30/2 DISCONNECT WITH 25AMP. FUSES. 3/4"C, 2#10, #10GND.

DRAWING NOTES:

- MAGNETIC FLOWMETER CONTROLLER, 120V. EXTEND 2-3/4"C WITH CONTROL CABLING TO PLC800. EXTEND 3/4"C AND WIRING TO SENSOR. PROVIDE GROUNDING AROUND FLOWMETER PER PER MANUFACTURER'S INSTRUCTIONS.
- IRRIGATION PUMP, 480V, 3Ø, 60HP. PROVIDE 100/3 NEMA 4XSS NON-FUSED DISCONNECT AND NEMA 4XSS LOCK-OUT SWITCH EXTEND 1 1/2"C, 3#3, #6GND, 6#12, #12GND FOR POWER AND LOS, HEATERS AND THERMISTORS TO MCC-D.
- EXTEND FOUR 1 1/2"C FROM MCC-D TO PLC FOR CONTROL WIRING SEE WIRING SCHEDULE FOR CONDUCTOR REQUIREMENTS.
- EF9, 480V, 3PH, 1/4HP. PROVIDE NEMA 4XSS STARTER/DISC WITH HOA CONTROL, RUN LIGHT, RESET, AUX CONTACTS. EXTEND 3/4"C, 3#12, #12GND. INTERLOCK WITH THERMOSTAT AND MOTORIZED DAMPERS.
- EH1, 7.5KW, 480V, 3PH, DISCONNECT PROVIDED WITH HEATER. 3/4"C, 3#12, #12GND.
- RECORDING RAIN GAUGE ON ROOF OF BUILDING, CONNECT TO LOCAL PLC.
- ANTENNA FOR SPRAY IRRIGATION FIELDS. 2"C WITH WIRING TO PLC800. ANTENNA AND MAST TO BE PROVIDED BY SCADA CONTRACTOR.
- 3/4"C WITH WIRING FOR DISCHARGE PRESSURE SENSOR

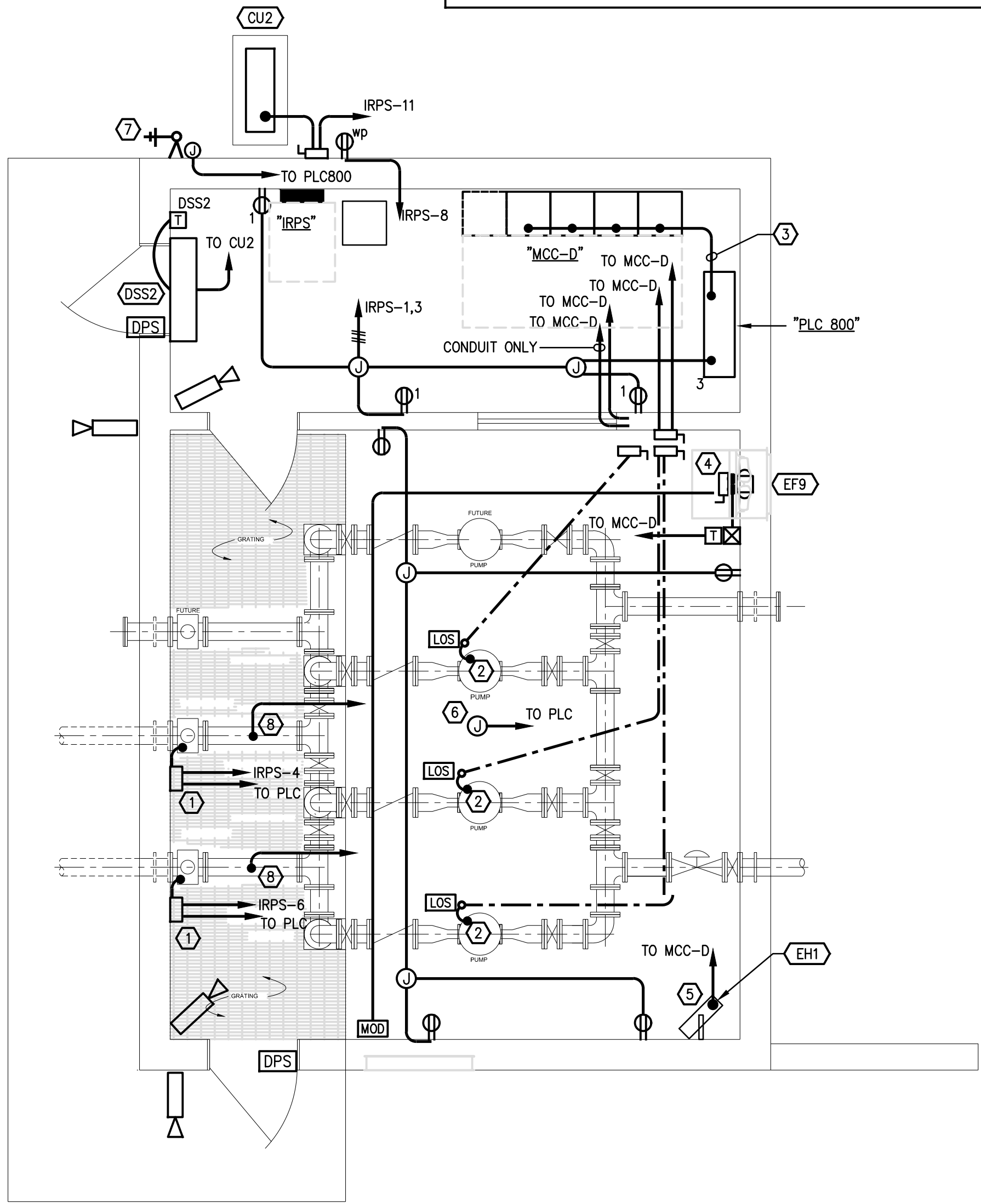
GENERAL NOTES:

- CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL DEVICES PRIOR TO ROUGH-IN.
- ALL UNDERGROUND CONDUITS SHALL BE CONCRETE ENCASED. SEE DETAIL SHEET E006.
- CONTRACTOR SHALL FIELD ROUTE ALL CONDUIT. ROUTE CONCEALED, WHEN EVER POSSIBLE.
- ALL EXPOSED OR SURFACE-MOUNTED CONDUITS AND FITTINGS SHALL BE RIGID GALVANIZED STEEL CONDUIT.
- FINAL CONDUIT CONNECTIONS TO MECHANICAL EQUIPMENT SHALL BE LIQUIDTIGHT FLEXIBLE METAL CONDUIT.
- ALL SPARE CONDUITS SHALL BE EQUIPPED WITH NYLON PULLCORDS.
- THERE SHALL BE NO SURFACE CONDUITS RUN ON TOP OF WALKWAYS. CONCEAL WHERE POSSIBLE.
- ALL JUNCTION BOXES, 4X EQUIPMENT, ENCLOSURES WP DEVICE ENCLOSURES, AND ALL BRACKETS, CLAMPS, AND FASTENERS SHALL BE 304 STAINLESS STEEL. PROVIDE EXPLOSION PROOF BOXES IN CLASSIFIED AREAS.
- PROVIDE CONDUIT EXPANSION JOINT FITTINGS FOR ALL CONDUITS IN CONCRETE SLABS THAT CROSS EXPANSION JOINTS.
- ALL RECEPTACLES SHALL BE INSTALLED AT 48" AFF UNLESS NOTED OTHERWISE.



SPRAY IRRIGATION PUMP STATION - LIGHTING

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



SPRAY IRRIGATION PUMP STATION - POWER AND COMMUNICATIONS

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

REVISIONS		DESIGN	PROJECT TITLE		
NO.	DATE	BY	WASTEWATER TREATMENT PLANT EXPANSION BLEDSOE COUNTY CORRECTIONAL COMPLEX		
			PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06		
			SPRAY IRRIGATION PUMP STATION - ELECTRICAL		
			ENGINEERS, INC. 3354 PERIMETER HILL DRIVE, SUITE 140 NASHVILLE, TN 37211 615-834-8300		
			JOB NO.	N16003	
			ISSUE DATE	November 30, 2018	
			SCALE	1/4"=1'-0"	
			DRAWING NO.	E-1201	

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DRAWING NOTES:

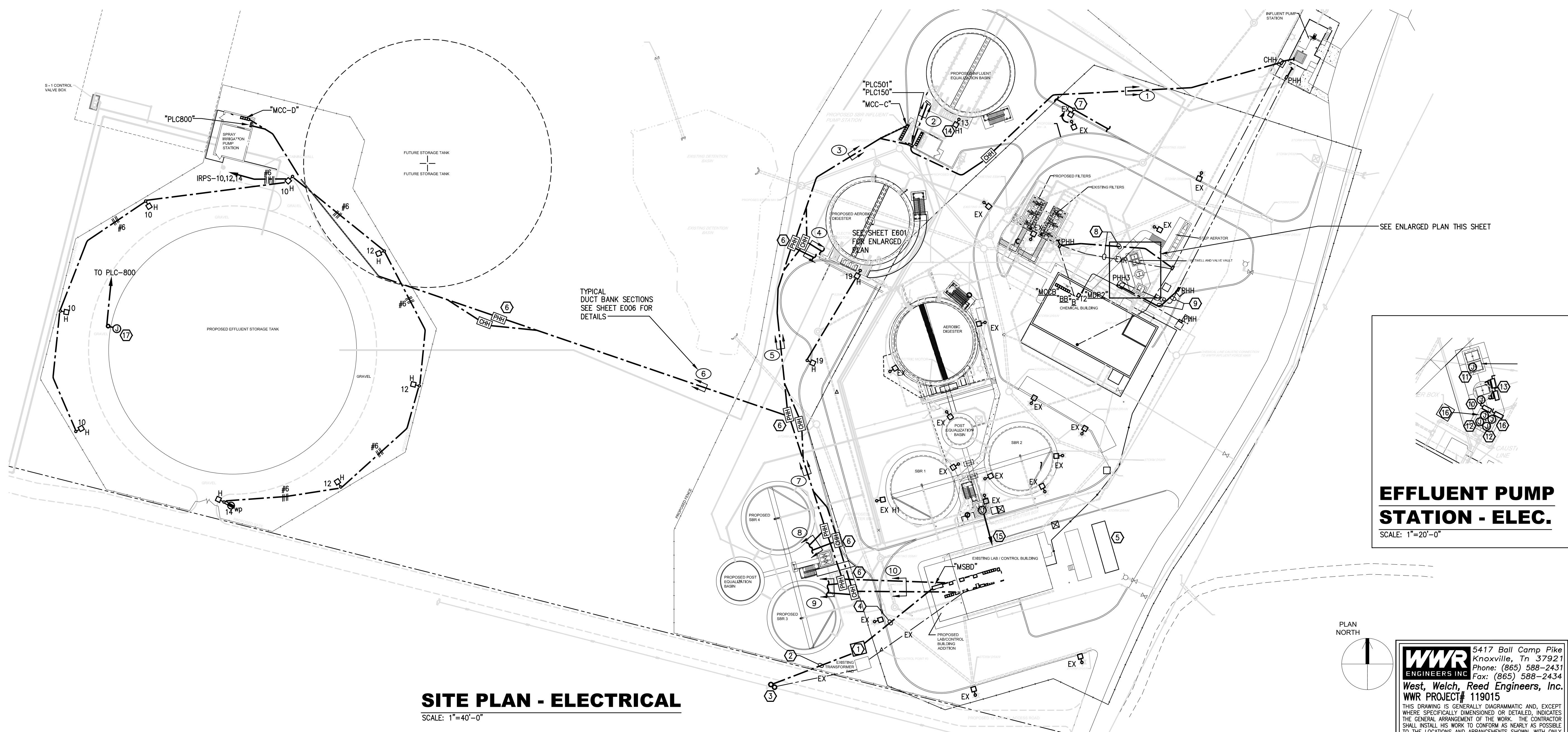
- ① PROPOSED LOCATION OF NEW PAD MOUNTED TRANSFORMER INSTALLED BY THE UTILITY CO. COORDINATION OF THE TRANSFORMER INSTALLATION PAD INSTALLATION SHALL BE BY THE CONTRACTOR. CONTRACTOR PAY ALL FEES.
- ② PROPOSED LOCATION OF NEW UNDERGROUND PRIMARY INSTALLED BY THE UTILITY CO. COORDINATION OF PRIMARY INSTALLATION AND CONDUIT SHALL BE BY THE CONTRACTOR. CONTRACTOR PAY ALL FEES.
- ③ LOCATION OF NEW/EXISTING PRIMARY RISER POLE, INSTALLED BY THE UTILITY CO. EXISTING RISER CAN BE REMOVED AFTER NEW SERVICE IS OPERATIONAL AND BACKFEEDING THE EXISTING PLANT. CONTRACTOR PAY ALL FEES.
- ④ PROPOSED LOCATION OF NEW UNDERGROUND SECONDARY SEE FEEDER DIAGRAM FOR FEEDER SIZES
- ⑤ LOCATION OF NEW GENERATOR. SEE FEEDER DIAGRAM FOR ADDITIONAL REQUIREMENTS.
- ⑥ LOCATION OF NEW UNDERGROUND PULLBOXES FOR POWER AND COMMUNICATIONS.
- ⑦ EXISTING POLE TO BE RELOCATED OUT OF NEW ROADWAY AREA. INTERCEPT EXISTING EXTERIOR LIGHTING CIRCUIT AND RECONNECT PULL NEW CONDUCTORS BACK TO NEAREST POLE. PROVIDE NEW POLE BASE AS INDICATED ON SHEET E006 FOR FIXTURE TYPE "H".
- ⑧ EXISTING DUCT BANK TO BE REMOVED AND RELOCATED TO NEW LOCATION AS INDICATED. DUCT BANK SHALL BE EQUIPPED WITH 2-2" C FOR POWER CONDUCTORS. EXISTING DUCT BANK SHOULD ONLY CONTAIN TWO 20A, 120V CIRCUITS FOR EXISTING FLOWMETER AND SAMPLER AT THE STEP AERATOR. OTHER CONDUIT SHOULD BE ANALOG CABLES FOR THE FLOW AND SAMPLER SIGNALS THAT EXTENDS TO PLC400 IN THE EXISTING CHEMICAL BUILDING.

- ⑨ EXISTING DUCT BANK TO BE REMOVED AND RELOCATED TO NEW LOCATION AS INDICATED. DUCT BANK SHALL BE EQUIPPED WITH 2-4" C FOR POWER CONDUCTORS. EXISTING DUCT BANK SHOULD ONLY POWER CONDUCTORS FOR THE INFLUENT PUMP STATION, 480V, 225A, 4#4/0, #4GND AND 4" SPARE. REPLACE THE ENTIRE FEEDER FROM MDP2 TO THE SERVICE DISCONNECT AT THE INFLUENT STATION.
- ⑩ LEVEL SENSOR AND FLOATS FOR WETWELL. PROVIDE TWO 12"x12"x8" NEMA 4XSS JUNCTION BOX TO INTERCEPT FLOAT AND SENSOR WIRING. EXTEND 3/4" C, 12#14 FROM FLOAT JUNCTION BOX TO PLC700. EXTEND 3/4" C 4C#16TSP FROM SENSOR JUNCTION BOX TO PLC700. PROVIDE STRAIN RELIEF FOR ALL CABLES ENTERING JUNCTION BOXES. PUMP CONTROL PANEL (PCP) IS LOCATED IN THE CHEMICAL BUILDING ELECTRICAL ROOM.
- ⑪ HIGH DIFFERENTIAL PRESSURE SENSOR. PROVIDE 12"x12"x8" NEMA 4XSS JUNCTION BOX TO INTERCEPT SENSOR WIRING. EXTEND 3/4" C, 8#14, #14GND, 2C#16TSP FROM JUNCTION BOX TO PLC700.
- ⑫ FLOWMETER SENSOR, 1 1/4" C AND TWO 4-20mA SIGNALS, 8#14, #14GND TO PLC700.
- ⑬ EFFLUENT PUMPS, 480V, 3# 2-15HP EACH. EXTEND TWO 1" C EACH WITH 3#10, #10GND, 2#14 FOR EACH PUMP. PROVIDE TWO NEMA 4XSS 30/3 NON FUSED DISCONNECTS. PROVIDE 12"x12"x8" NEMA 4XSS JUNCTION BOX TO CONNECT MOTOR SEAL AND TEMP RELAYS/SWITCHES. EXTEND 2-1" C, 14#14, #12GND TO PLC700 AS REQUIRED. PROVIDE SUPPORT BRACKETS AND KELLUM STRAIN RELIEFS FOR ALL PUMP LEADS AND CONTROLS CABLES ENTERING WET WELL.
- ⑭ LIGHTING POLE WITH PREVECTRON IV LIGHTNING PROTECTION SYSTEM. SEE SPECIFICATIONS SECTION 264113 AND DETAILS.
- ⑮ 1" C WITH 8#14, #14GND FOR HIGH LEVEL FLOATS IN THE SPLITTER BOX. MOUNTED ONE FLOAT IN EACH SECTION. EXTEND TO EXISTING SBR PLC.

- ⑯ PLUGE VALVE, 480V, 3PH. PROVIDE 30/3 NEMA 4XSS NON-FUSED DISCONNECT PROVIDE 1" C, 3#10, #10GND TO MDP2. 2-1" C WITH WIRING FOR CONTROLS TO PLC700. MOUNT DISCONNECT AND JUNCTION BOX FOR CONTROLS ON A UNISTRUT MOUNTING FRAME ADJACENT TO VALVE VAULT.
- ⑰ RADAR LEVEL. EXTEND 3/4" C, WITH WIRING TO PLC800. PROVIDE INTERNAL STRAIN RELIEF ON ALL CABLING UP TO THE TOP OF THE TANK.

GENERAL NOTES:

1. CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL DEVICES PRIOR TO ROUGH-IN.
2. ALL UNDERGROUND CONDUITS SHALL BE CONCRETE ENCASED.
3. CONTRACTOR SHALL FIELD ROUTE ALL CONDUIT. ROUTE CONCEALED, WHEN EVER POSSIBLE.
4. ALL EXPOSED OR SURFACE-MOUNTED CONDUITS AND FITTINGS SHALL BE RIGID GALVANIZED STEEL.
5. FINAL CONDUIT CONNECTIONS TO MECHANICAL EQUIPMENT SHALL BE LIQUIDTIGHT FLEXIBLE METAL CONDUIT.
6. ALL JUNCTION BOXES, NEMA 4XSS EQUIPMENT ENCLOSURES, WP DEVICE ENCLOSURES, AND ALL BRACKETS, CLAMPS, AND FASTENERS SHALL BE 304 STAINLESS STEEL.
7. ALL WET WELL AND TANK AREAS SHALL BE CLASSIFIED AS CLASS 1 DIVISION 1 HAZARDOUS LOCATIONS. ALL WIRING SHALL BE LISTED FOR HAZARDOUS USE IN THESE AREAS. PROVIDE CONDUIT SEALS FOR ALL WIRING LEAVING CLASSIFIED ZONES. INSTALL PER NEC.
8. ALL EXTERIOR LIGHT CIRCUITS SHALL BE MINIMUM 1" C AND #10 WIRING.
9. ALL SPARE CONDUITS SHALL BE EQUIPPED WITH NYLON PULLCORDS.
10. "EX" INDICATES EXISTING DEVICE OR WIRING TO REMAIN.
11. "EXR" INDICATES EXISTING DEVICE OR WIRING TO BE REMOVED.



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

EFFLUENT PUMP STATION - ELEC.
SCALE: 1"=20'-0"

REVISIONS		DATE	BY	APPD
NO.	DESCRIPTIONS			

DESIGN	RAC	DRAWN	JCM	CHECKED	RAC	APPROVED	RAC

(BLUE OAKS PROJECTS)
AEDC WTP IMPROVEMENTS
REPAIR SLOW MIXERS

SITE PLAN - ELECTRICAL

ENGINEERS, INC.
3354 PERIMETER HILL DRIVE, SUITE 140
NASHVILLE, TN 37211
615-834-9300

David Alan Carter
Professional Engineer
No. 10845
State of Tennessee

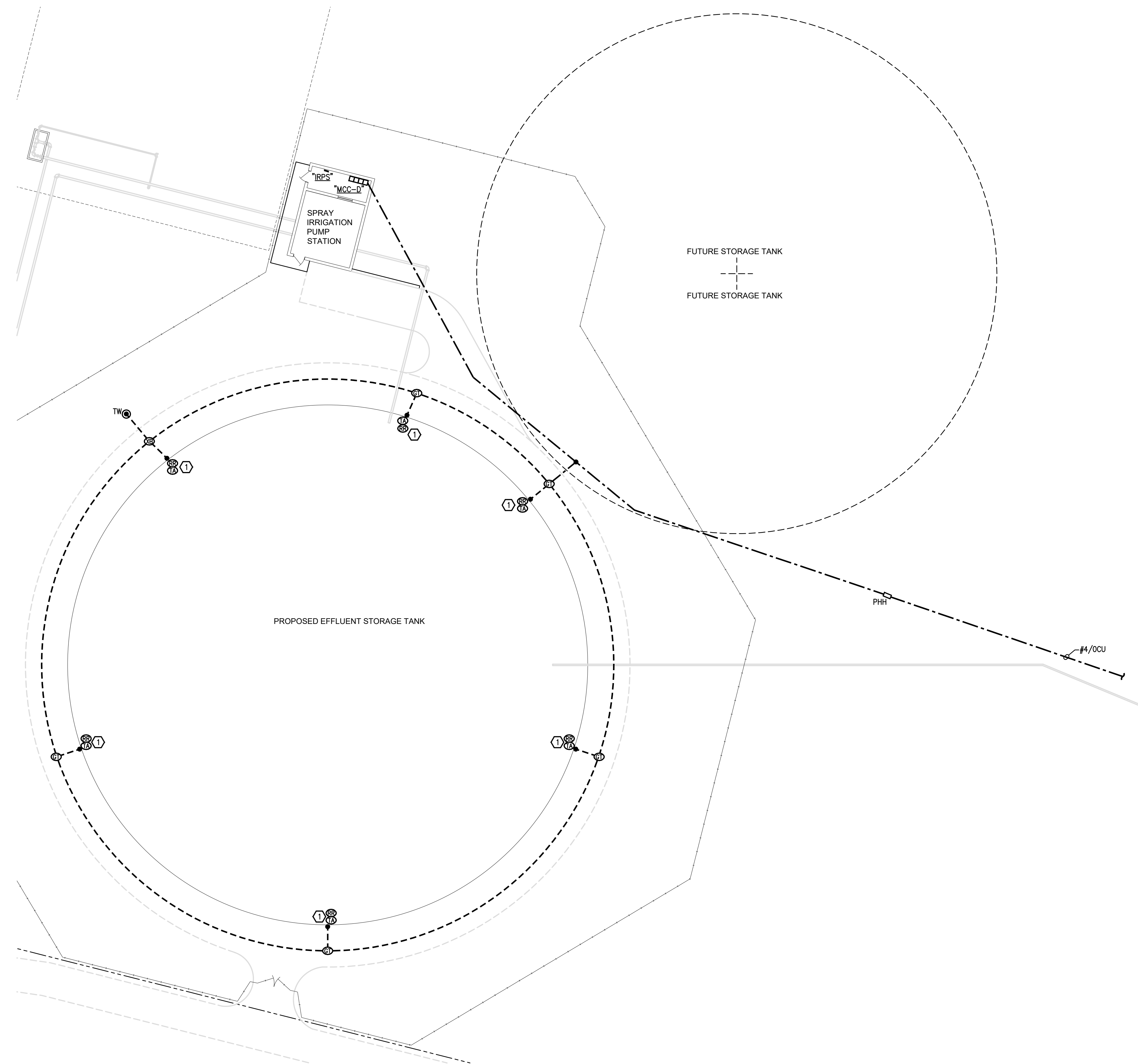
JOB NO. C19011
ISSUE DATE ISSUE DATE
SCALE 1"=40'-0"
DRAWING NO. SE1

WWR ENGINEERS, INC.
5417 Ball Camp Pike
Knoxville, TN 37921
Phone: (865) 588-2431
Fax: (865) 588-2434
West, Welch, Reed Engineers, Inc.
WWR PROJECT# 119015

THIS DRAWING IS GENERALLY DIAGRAMMATIC AND, EXCEPT WHERE SPECIFICALLY DIMENSIONED OR DETAILED, INDICATES THE GENERAL ARRANGEMENT OF THE WORK. THE CONTRACTOR SHALL INSTALL HIS WORK TO CONFORM AS NEARLY AS POSSIBLE TO THE LOCATIONS AND ARRANGEMENTS SHOWN, WITH ONLY SUCH MINOR ADJUSTMENTS AS NECESSARY TO COORDINATE THE WORK WITH ALL OTHER TRADES TO AVOID INTERFERENCES.

CTI PROJECT: N16003-01 (TN Dept. General Services TDEC) Bledsoe County Correctional Complex. DRAWING: CTI - C-007 EXISTING SITE PIPING PLAN SHEET 4 (688049.12/2/2019 3:50PM). LAYOUT: Model

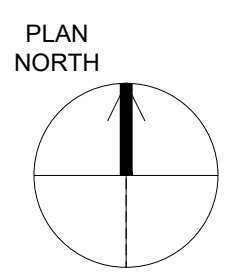
DATE OF PRINT: 3/14/2019 2:59 PM



- DRAWING NOTES:**
- ① BOND #4/0 DUCT BANK GROUND TO REINFORCING STEEL IN CONCRETE STRUCTURE. BOND #2/0CU FROM REINFORCING STEEL TO HANDRAILS ON TOP OF STRUCTURE. BOND ALL HANDRAILS AND METAL GRATING TOGETHER WITH MINIMUM #4CU. USE MECHANICAL HANDRAIL CLAMPS FOR ATTACHMENT OF GROUND CONDUCTORS. #4 CONDUCTOR SHALL BE RUN CONCEALED IN CONCRETE WHERE POSSIBLE.
 - ② BOND #2/0CU GROUND TO METAL STRUCTURES. BOND ALL METAL GRATING, RAILING AND WALKWAYS TO WITH #4CU. USE MECHANICAL HANDRAIL CLAMPS FOR ATTACHEMENT OF GROUND CONDUCTORS.
 - ③ ALL GROUNDING CONDUCTORS SHALL BE #4/0CU UNLESS NOTED OTHERWISE.
 - ④ NOT USED.
 - ⑤ NEW GROUNDING POINT TO BE CONNTECT TO EXISTING GROUNDING

SITE PLAN - GROUNDING

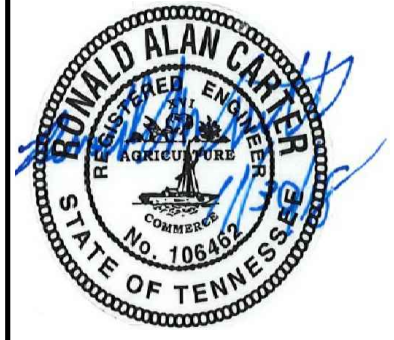
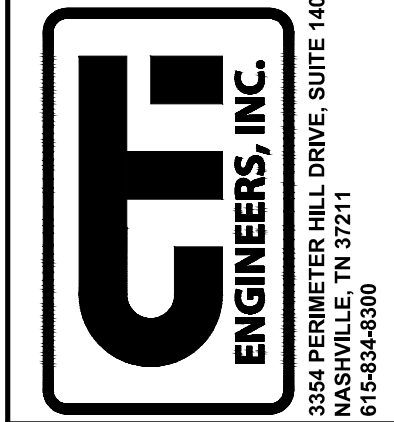
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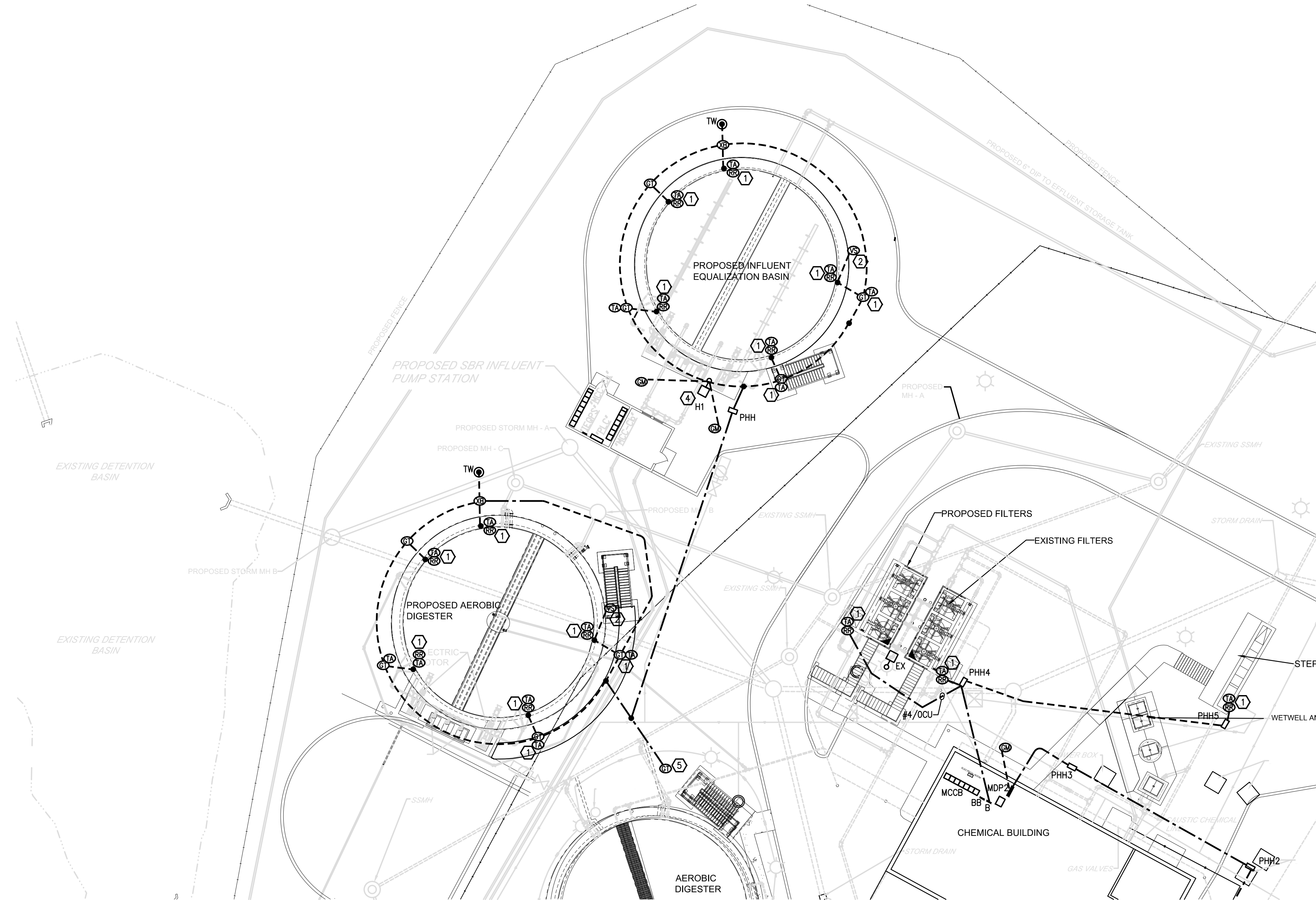
WWR ENGINEERS, INC.
 5417 Ball Camp Pike
 Knoxville, Tn 37921
 Phone: (865) 588-2431
 Fax: (865) 588-2434
West, Welch, Reed Engineers, Inc.
WWR PROJECT# 118057
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DESIGN		REVISIONS	
NO.	DESCRIPTIONS	DATE	BY

WASTEWATER TREATMENT PLANT EXPANSION
 BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06
 SITE PLAN - GROUNDING (1 OF 3)



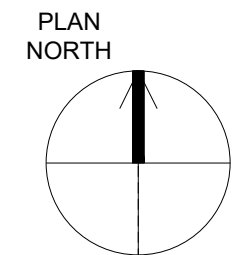
JOB NO. N16003
ISSUE DATE November 30, 2018
SCALE 1"=20'-0"
DRAWING NO. SE-1.1



DRAWING NOTES:

- 1 BOND #4/O DUCT BANK GROUND TO REINFORCING STEEL IN CONCRETE STRUCTURE. BOND #2/OCU FROM REINFORCING STEEL TO HANDRAILS ON TOP OF STRUCTURE. BOND ALL HANDRAILS AND METAL GRATING TOGETHER WITH MINIMUM #4CU. USE MECHANICAL HANDRAIL CLAMPS FOR ATTACHMENT OF GROUND CONDUCTORS. #4 CONDUCTOR SHALL BE RUN CONCEALED IN CONCRETE WHERE POSSIBLE.
- 2 BOND #2/OCU GROUND TO METAL STRUCTURES. BOND ALL METAL GRATING, RAILING AND WALKWAYS TO WITH #4CU. USE MECHANICAL HANDRAIL CLAMPS FOR ATTACHEMENT OF GROUND CONDUCTORS.
- 3 ALL GROUNDING CONDUCTORS SHALL BE #4/OCU UNLESS NOTED OTHERWISE.
- 4 LIGHTING POLE WITH LIGHTNING PROTECTION SYSTEM. SEE SPECIFICATIONS SECTION 264113 AND DETAILS SHEET E008.
- 5 NEW GROUNDING POINT TO BE CONNTECT TO EXISTING GROUNDING

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



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WWR PROJECT# 119015

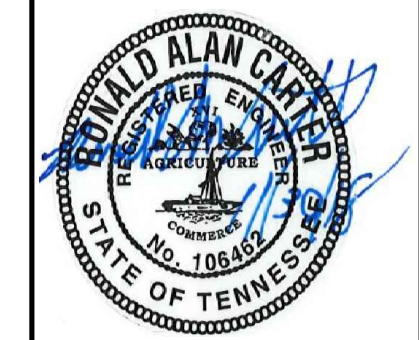
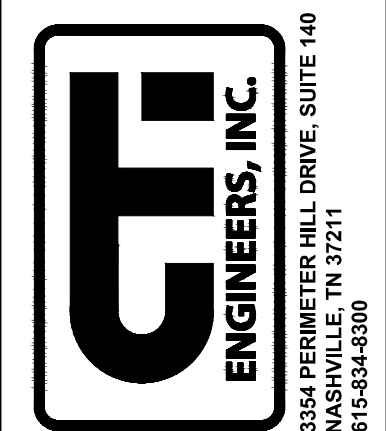
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REVISIONS		DATE	BY	APPD
NO.	DESCRIPTIONS			

DESIGN	RAC	DRAWN	JCM	CHECKED	RAC	APPROVED	RAC

(BLUE OAKS PROJECTS)
AEDC WTP IMPROVEMENTS
REPAIR SLOW MIXERS

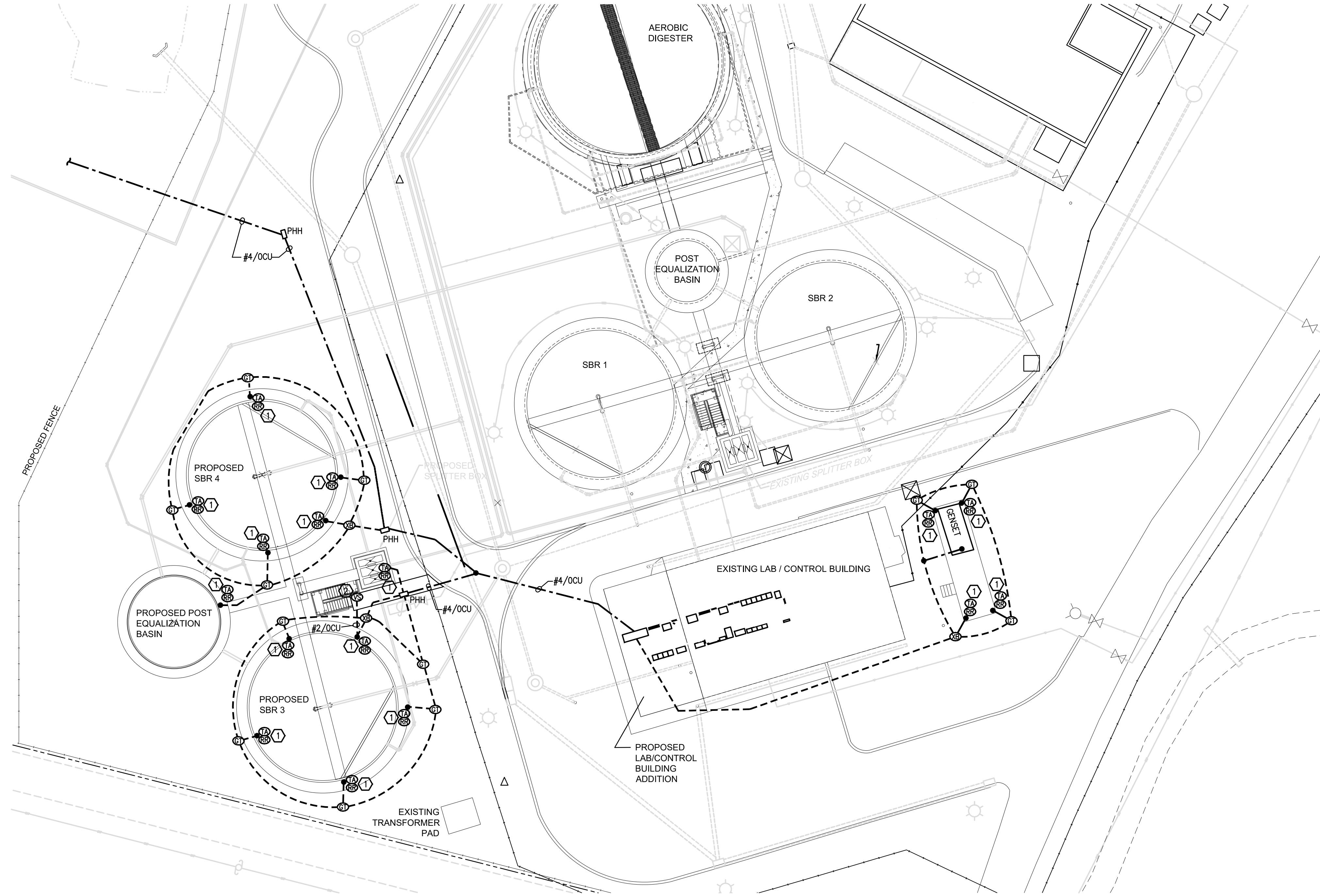
SITE PLAN - GROUNDING (2 OF 3)



JOB NO.	C19011
ISSUE DATE	
ISSUE DATE	
SCALE	1"=20'-0"
DRAWING NO.	SE-1.2

CTI PROJECT: N16003-01 (TN Dept. General Services IDEC) Bledsoe County Correctional Complex. DRAWING: CTI - C-007 EXISTING SITE PIPING PLAN SHEET 4 (5880A) 12/12/14 19 3:00PM. LAYOUT: Model

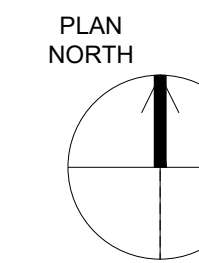
DATE OF PRINT: 3/14/2019 3:00 PM



- DRAWING NOTES:**
- ① BOND #4/0 DUCT BANK GROUND TO REINFORCING STEEL IN CONCRETE STRUCTURE. BOND #2/0CU FROM REINFORCING STEEL TO HANDRAILS ON TOP OF STRUCTURE. BOND ALL HANDRAILS AND METAL GRATING TOGETHER WITH MINIMUM #4CU. USE MECHANICAL HANDRAIL CLAMPS FOR ATTACHMENT OF GROUND CONDUCTORS. #4 CONDUCTOR SHALL BE RUN CONCEALED IN CONCRETE WHERE POSSIBLE.
 - ② BOND #2/0CU GROUND TO METAL STRUCTURES. BOND ALL METAL GRATING, RAILING AND WALKWAYS TO WITH #4CU. USE MECHANICAL HANDRAIL CLAMPS FOR ATTACHEMENT OF GROUND CONDUCTORS.
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 - ④ NOT USED.
 - ⑤ NEW GROUNDING POINT TO BE CONNTECT TO EXISTING GROUNDING

SITE PLAN - GROUNDING

SCALE: 1"=20'-0"



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WWR PROJECT# 118057

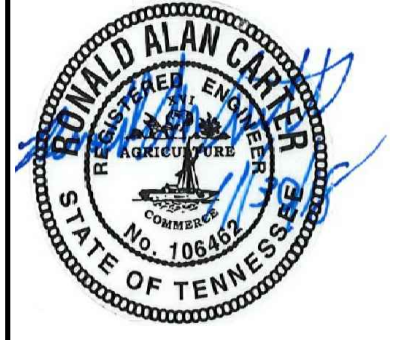
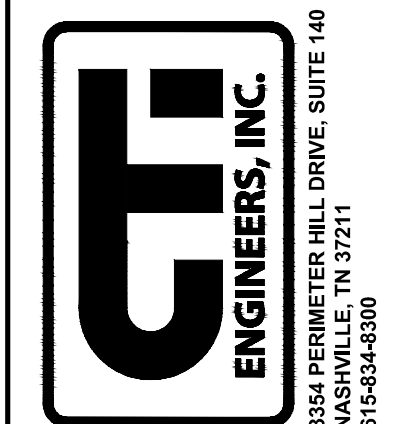
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NO.	DESCRIPTIONS	DATE	BY

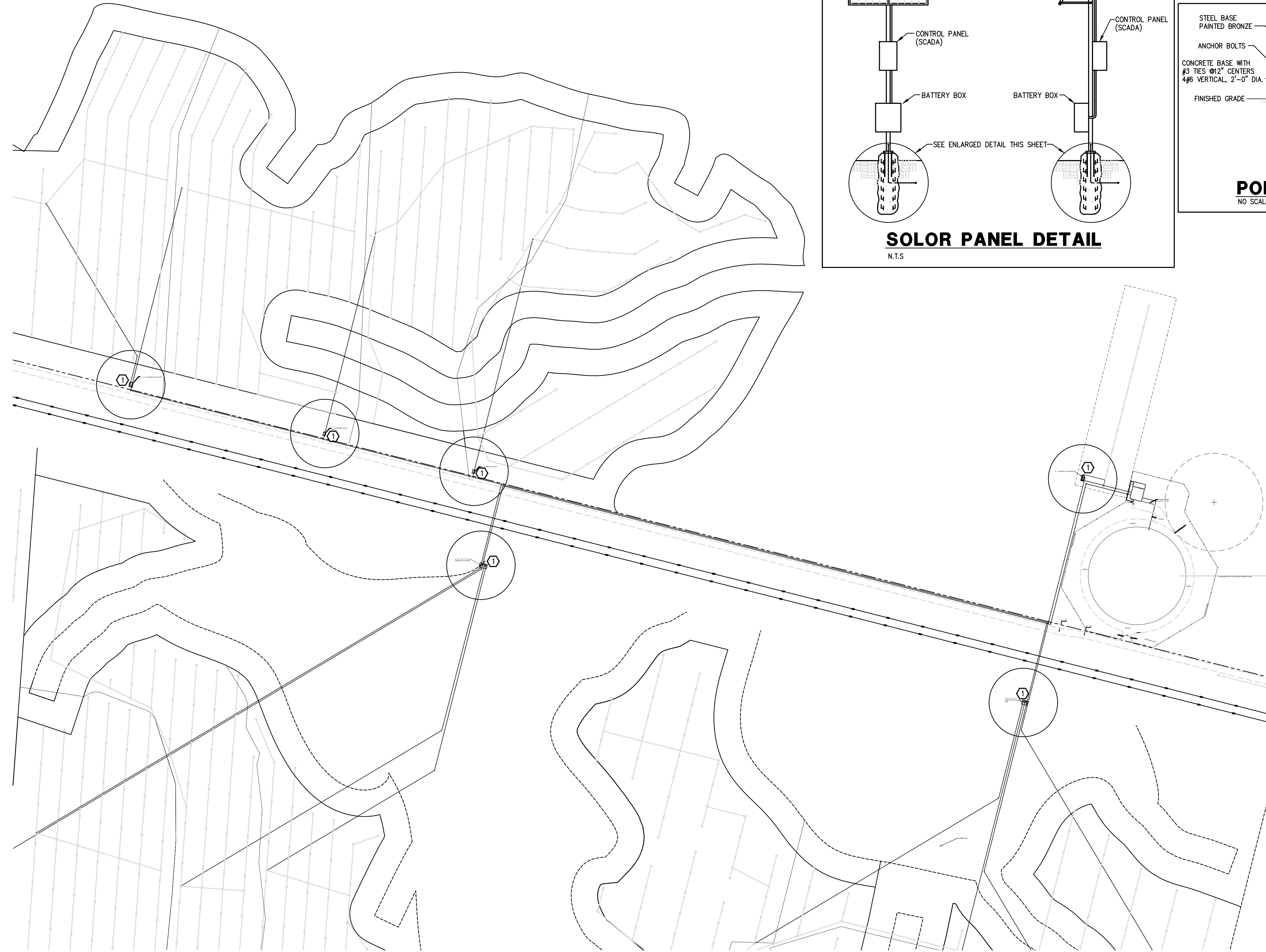
WASTEWATER TREATMENT PLANT EXPANSION
BLEDSOE COUNTY CORRECTIONAL COMPLEX
PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

DESIGN: RAC
DRAWN: JCM
CHECKED: RAC
APPROVED: RAC

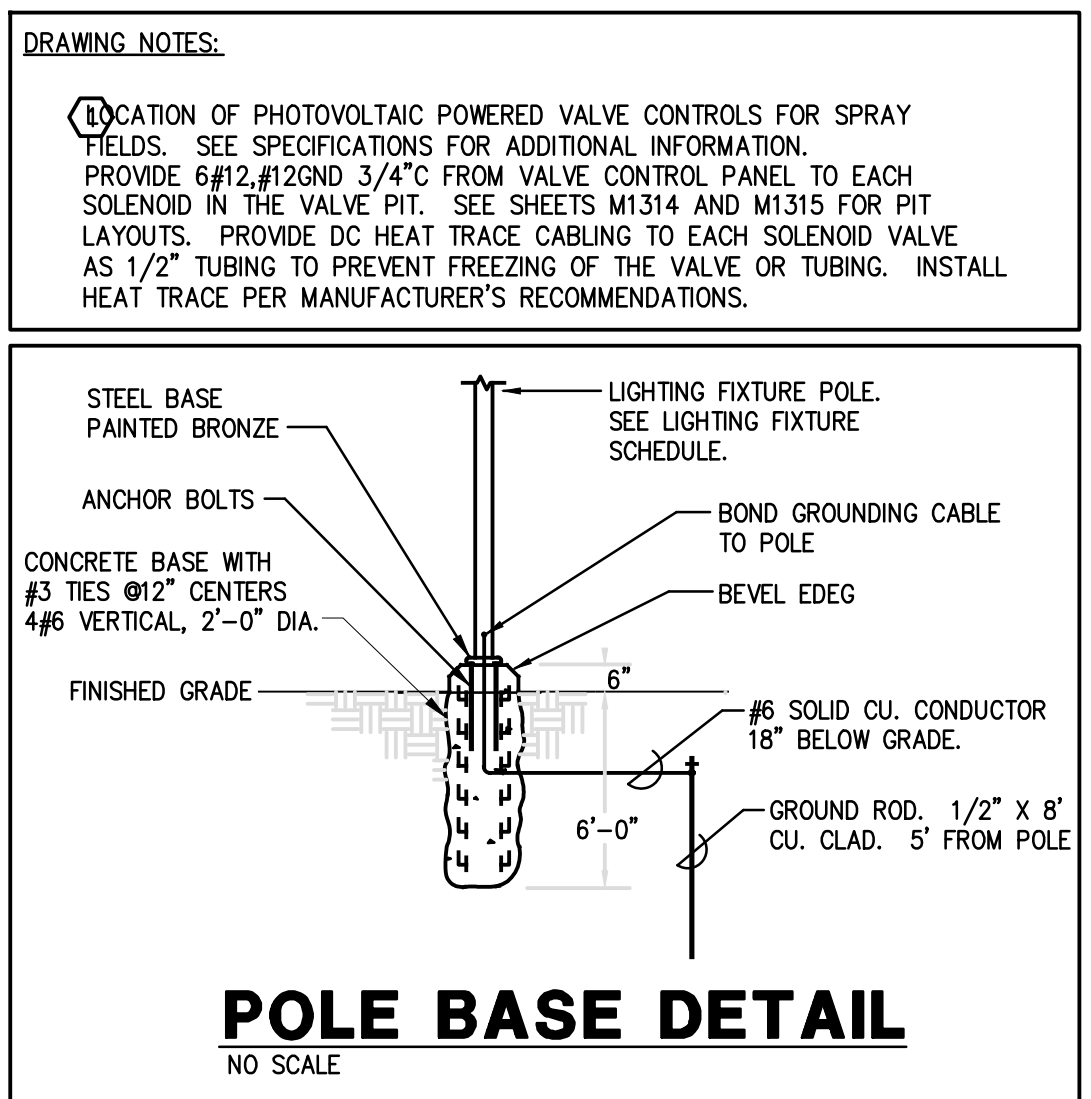
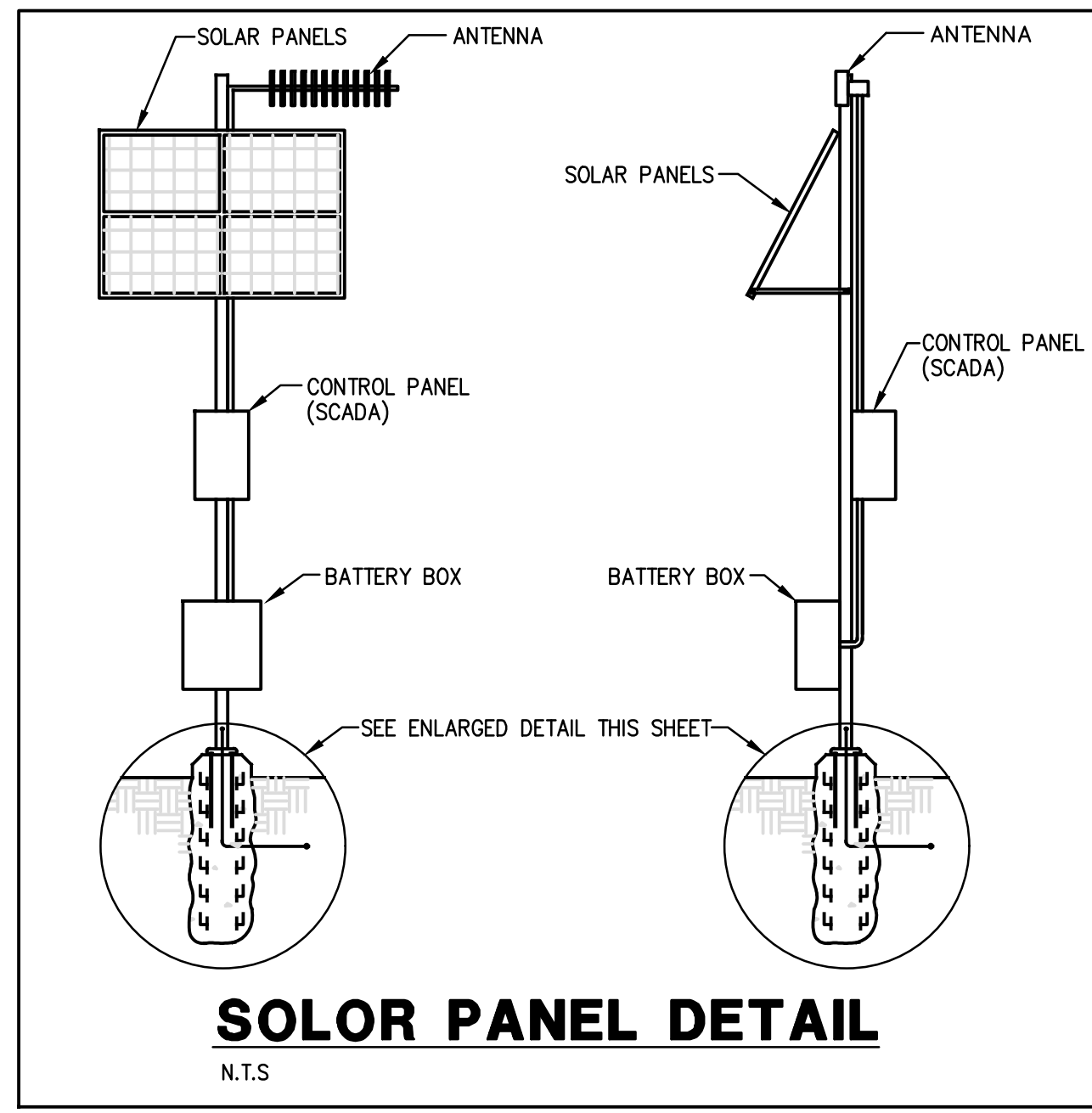
SITE PLAN - GROUNDING (3 OF 3)



JOB NO. N16003
ISSUE DATE November 30, 2018
SCALE 1"=20'-0"
DRAWING NO. SE-1.3



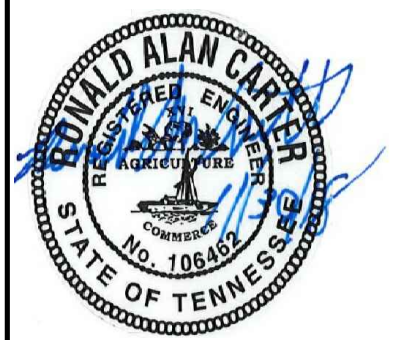
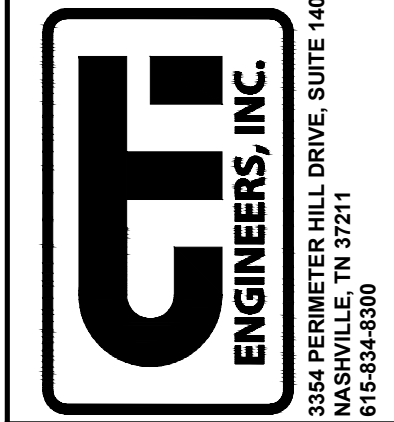
SITE PLAN - CONTROL VALVE BOXES
SCALE: 1"=100'-0"



NO.	REVISIONS DESCRIPTIONS	DATE	BY	APPD					
					DESIGN	DRAWN	CHECKED	APPROVED	

(BLUE OAKS PROJECTS)
AEDC WTP IMPROVEMENTS
REPAIR SLOW MIXERS

SITE PLAN - CONTROL VALVE BOX S-1 - S-4



JOB NO. C19011
ISSUE DATE
ISSUE DATE
SCALE 1"=100'-0"
DRAWING NO. SE-1.4

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WWR PROJECT# 119015

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