



VIA EMAIL

CTI Engineers, Inc.
3354 Perimeter Hill Drive
Suite 140
Nashville, TN 37211
Phone 615.834.8300
Fax 615.834.8328
www.ctiengr.com

October 24, 2018

Ms. Maybelle Sparks, PE
Division of Water Resources
Tennessee Department of Environment and Conservation
William R. Snodgrass Tennessee Tower, 11th Floor
312 Rosa L. Parks Avenue
Nashville, TN 37243

Subject: Wastewater Treatment Plant Expansion
Bledsoe County Correctional Complex
SBC Project 142/013-01-2013-06
CTI Project N16003
NPDES Permit TN0056626

Dear Ms. Sparks:

The proposed expansion of the subject facility includes land application of effluent by spray irrigation for flows in excess of the permitted discharge to Mill Creek. The following items are attached for your review and consideration:

- 1) Application for a State Operation Permit (SOP) executed by Mr. Steven Westerman on behalf of the Tennessee Department of Correction;
- 2) Location Map prepared from USGS quadrangle maps;
- 3) Proposed Process Flow Diagram;
- 4) DWR Soil Pedon Description (Field) Forms for Area 2 (23 pages);
- 5) Extra High Intensity Soils Map for Area 2 with soils descriptions;
- 6) DWR Soil Pedon Description (Field) Forms for Area 3 (26 pages);
- 7) Soils descriptions for Area 3;
- 8) Extra High Intensity Soils Map for Area 3; and
- 9) CTI plans for the Effluent Storage Tank, Spray Irrigation Pump Station, Spray Field Index, Spray Field Zone layouts, and Control Valves and Details (21 sheets).

As you review this application and its accompanying information, please do not hesitate to call if clarification or additional information is required.

Sincerely,

A handwritten signature in blue ink that reads 'Neal Hall'. The signature is fluid and cursive, with the first name 'Neal' being more prominent than the last name 'Hall'.

Neal Hall, PE

Attachments

c: Ms. Angela Oberschmidt, TDEC, DWR, Chattanooga EFO
Mr. Steven Westerman, TDOC
Mr. Joe Miller, STREAM
Mr. Roger Shaw, TDOC



Tennessee Department of Environment and Conservation
 Division of Water Resources
 William R. Snodgrass - Tennessee Tower
 312 Rosa L. Parks Avenue, 11th Floor
 Nashville, Tennessee 37243-1102
 (615) 532-0625

APPLICATION FOR A STATE OPERATION PERMIT (SOP)

Type of application: New Permit Permit Reissuance Permit Modification

Permittee Identification: (Name of city, town, industry, corporation, individual, etc., applying, according to the provisions of Tennessee Code Annotated Section 69-3-108 and Regulations of the Tennessee Water Quality Control Board.)

Permittee Name: Tennessee Department of Correction (applicant):

Permittee Address: 320 Sixth Avenue, North Nashville, TN 37243

Official Contact: Steven Westerman	Title or Position: Director, Office of Facilities Planning and Construction		
Mailing Address: 320 Sixth Avenue, North	City: Nashville	State: TN	Zip: 37243
Phone number(s): (615)253-8224	E-mail: Steven.Westerman@tn.gov		

Optional Contact: Bruce Fields	Title or Position: Facility Manager		
Address: 1045 Horsehead Road	City: Pikeville	State: TN	Zip: 37367
Phone number(s): (423)881-6233	E-mail: Bruce.Fields@tn.gov		

Application Certification (must be signed in accordance with the requirements of Rule 0400-40-05-.05)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury

Name and title; print or type Steven Westerman, Director, Office of Facilities Planning & Const.	Signature 	Date 10-19-18
---	---------------	------------------

Permit Number: SOP-_____

Facility Identification:		Existing Permit No.
Facility Name:	Bledsoe County Correctional Complex	County: Bledsoe
Facility Address or Location:	1045 Horsehead Road Pikeville, TN 37367	Latitude: N35.7358 degrees Longitude: W58.2605 degrees
Name and distance to nearest receiving waters: Mill Creek - adjacent to site		
If any other State or Federal Water/Wastewater Permits have been obtained for this site, list their permit numbers: NPDES Permit No. TN0056626 Biosolids Permit No. TNB056626		
Name of company or governmental entity that will operate the permitted system: TN Dept of Correction		
Operator address: Tennessee Department of Correction 1045 Horsehead Road, Pikeville, TN 37367		
Has the owner/operator filed for a Certificate of Convenience & Necessity (CCN), or an amended CCN, with the Tennessee Regulatory Authority (TRA) (may be required for collection systems and land application treatment systems)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
If the applicant listed above does not yet own the facility/site or if the applicant will not be the operator, explain how and when the ownership will be transferred or describe the contractual arrangement and renewal terms of the contract for operations. Not Applicable		
Complete the following information explaining the entity type, number of design units, and daily design wastewater flow:		
<u>Entity Type</u>	<u>Number of Design Units</u>	<u>Flow (gpd)</u>
<input type="checkbox"/> City, town or county	No. of connections:	
<input type="checkbox"/> Subdivision	No. of homes:	Avg. No. bedrooms per home:
<input type="checkbox"/> School	No. of students:	Size of cafeteria(s): No. of showers:
<input type="checkbox"/> Apartment	No. of units:	No. units with Washer/Dryer hookups: No. units without W/D hookups:
<input type="checkbox"/> Commercial Business	No. of employees:	Type of business:
<input type="checkbox"/> Industry	No. of employees:	Product(s) manufactured:
<input type="checkbox"/> Resort	No. of units:	
<input type="checkbox"/> Camp	No. of hookups:	
<input type="checkbox"/> RV Park	No. of hookups:	No. of dump stations:
<input type="checkbox"/> Car Wash	No. of bays:	
<input checked="" type="checkbox"/> Other	Prison	630,000
Describe the type and frequency of activities that result in wastewater generation. Continuous domestic sewage production with 315,000 gpd to Mill Creek and remainder to land application.		

Permit Number: SOP-_____

Land Application Treatment System:	<input type="checkbox"/> N/A
Type of Land Application Treatment System: <input type="checkbox"/> Drip <input checked="" type="checkbox"/> Spray <input type="checkbox"/> Other, explain:	
Type of treatment facility preceding land application (recirculating media filters, lagoons, other, etc.): Influent screening, sequencing batch reactors, effluent filters, disinfection, and strainers.	
Attach a treatment schematic. <input checked="" type="checkbox"/> Attached	
Describe methods to prevent and respond to any bypass of treatment or discharges (i.e., power failures, equipment failures, heavy rains, etc.): Influent flow equalization, parallel treatment units, standby electric generator, effluent storage.	
For New or Modified Projects: Name of Developer for the project:	
Developer address and phone number:	
For land application, list:	Proposed acreage involved: 113 acres total; 65.8 acres spray fields Inches/week gpd/sq.ft loading rate to be applied: 1.91 in/week; 0.25 gpd/sf
Is wastewater disinfection proposed?	
<input checked="" type="checkbox"/> Yes	Describe land application area access: Gravel driveway past gated entry behind BCCX prison
<input type="checkbox"/> No	Describe how access to the land application area will be restricted:
Attach required additional Engineering Report Information (see website for more information)	
<input checked="" type="checkbox"/> Topographic map (1:24,000 scale presented at a six inch by six inch minimum size) showing the location of the project including quadrangle(s) name(s) GPS coordinates, and latitude and longitude in decimal degrees should also be included.	
<input checked="" type="checkbox"/> Scaled layout of facility showing the following: lots, buildings, etc. being served, the wastewater collection system routes, the pretreatment system location, the proposed land application area(s), roads, property boundaries, and sensitive areas such as streams, lakes, springs, wells, wellhead protection areas, sinkholes and wetlands.	
<input checked="" type="checkbox"/> Soils information for the proposed land disposal area in the form of a Water Resources Soils Map per Chapter 16 and 17 State of Tennessee Design Criteria for Sewage Works. The soils information should include soil depth (borings to a minimum of 4 feet or refusal) and soil profile description for each soil mapped.	
<input checked="" type="checkbox"/> Topographic map of the area where the wastewater is to be land applied with no greater than ten foot contours presented at a minimum size of 24 inches by 24 inches.	
<input checked="" type="checkbox"/> Describe alternative application methods based on the following priority rating: (1) connection to a municipal/public sewer system, (2) connection to a conventional subsurface disposal system as regulated by the Division of Water Resources, and/or (3) land application.	

- 1) The facility is remote and connection to another public sewer system is not feasible.
- 2) Conventional subsurface disposal system is not feasible.
- 3) Land application of 1/2 of the WWTP effluent is the only feasible solution.

Permit Number: SOP-_____

<p>For Drip Dispersal Systems Only: Unless otherwise determined by the Department, sewage treatment effluent wells, i.e, large capacity treatment/drip dispersal systems after approval of the SOP Application, will be issued an UIC tracking number and will be authorized as Permit by Rule per UIC Rule 0400-45-06-.14(2) and upon issue of a State Operating Permit and Sewage System Construction Approval by the Department. Describe the following:</p>	<input checked="" type="checkbox"/> N/A
<p>The area of review (AOR) for each Drip Dispersal System shall, unless otherwise specified by the Department, consist of the area lying within a one mile radius or an area defined by using calculations under 0400-45-06-.09 of the Drip Dispersal System site or facility, and shall include, but not be limited to general surface geographic features, general subsurface geology, and general demographic and cultural features within the area. Attach to this part of the application a general characterization of the AOR, including the following: (This can be in narrative form)</p>	
<p><input type="checkbox"/> A general description of all past and present groundwater uses as well as the general groundwater flow direction and general water quality.</p>	
<p><input type="checkbox"/> A general description of the population and cultural development within the AOR (i.e. agricultural, commercial, residential or mixed)</p>	
<p><input type="checkbox"/> Nature of injected fluid to include physical, chemical, biological or radiological characteristics.</p>	
<p><input type="checkbox"/> If groundwater is used for drinking water within the area of review, then identify and locate on a topographic map all groundwater withdrawal points within the AOR, which supply public or private drinking water systems. Or supply map showing general location of publicly supplied water for the area (this can be obtained from the water provider)</p>	
<p><input type="checkbox"/> If the proposed system is located within a wellhead protection area or source water protection area designated by Rule 0400-45-01-.34, show the boundary of the protection area on the facility site plan.</p>	
<p><input type="checkbox"/> Description of system, Volume of injected fluid in gallons per day based upon design flow, including any monitoring wells</p>	
<p><input type="checkbox"/> Nature and type of system, including installed dimensions of wells and construction materials</p>	

<p>Pump and Haul:</p>	<input checked="" type="checkbox"/> N/A
<p>Reason system cannot be served by public sewer:</p>	
<p>Distance to the nearest manhole where public sewer service is available:</p>	
<p>When sewer service will be available:</p>	
<p>Volume of holding tank: _____ gal.</p>	
<p>Tennessee licensed septage hauler (attach copy of agreement):</p>	
<p>Facility accepting the septage (attach copy of acceptance letter):</p>	
<p>Latitude and Longitude (in decimal degrees) of approved manhole for discharge of septage:</p>	
<p>Describe methods to prevent and respond to any bypass of treatment or discharges (i.e., power failures, equipment failures, heavy rains, etc.):</p>	

Permit Number: SOP-_____

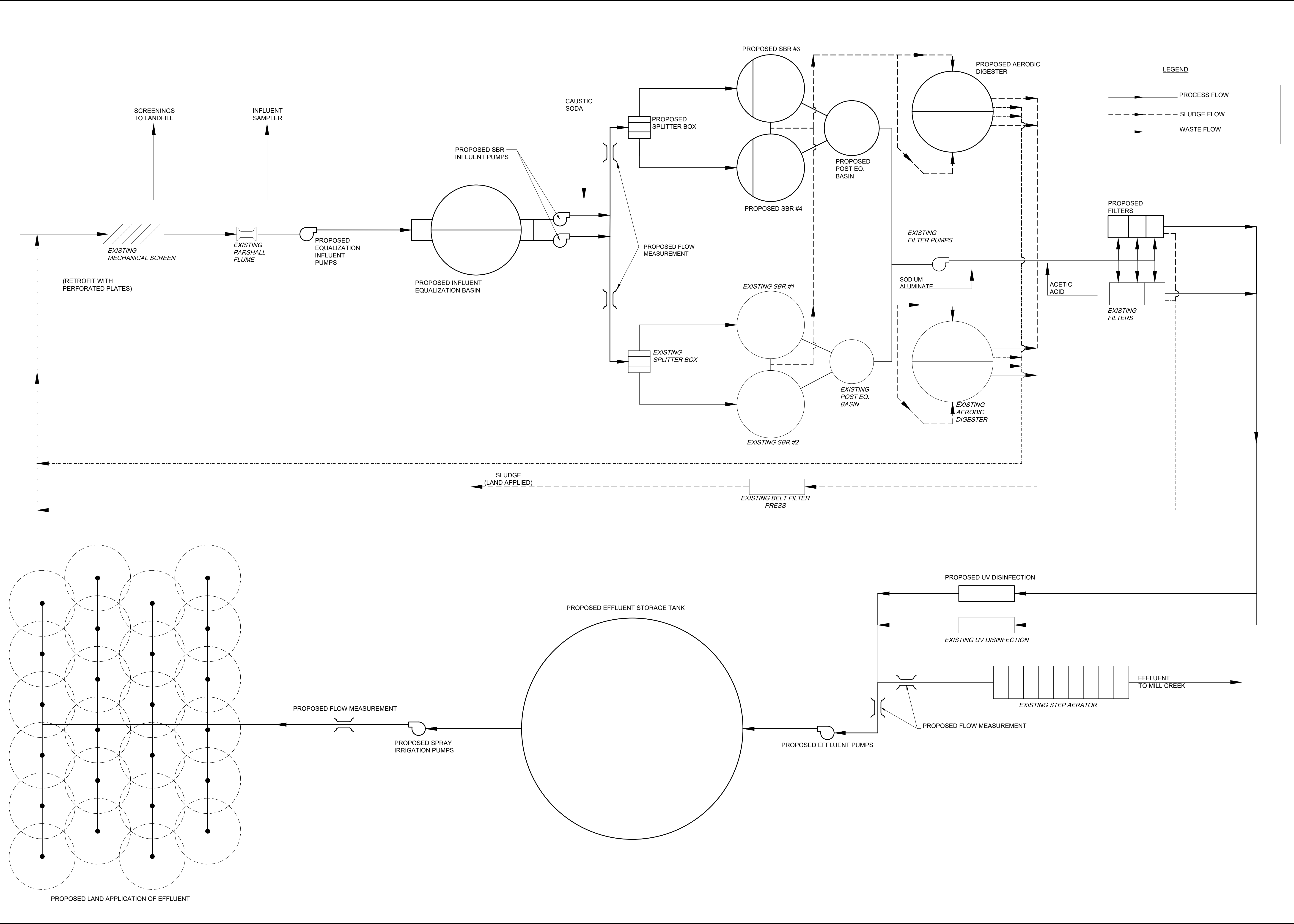
Holding Ponds (for non-domestic wastewater only):	<input checked="" type="checkbox"/> N/A
Pond use: <input type="checkbox"/> Recirculation <input type="checkbox"/> Sedimentation <input type="checkbox"/> Cooling <input type="checkbox"/> Other (describe):	
Describe pond use and operation:	
If the pond(s) are existing pond(s), what was the previous use?	
Have you prepared a plan to dispose of rainfall in excess of evaporation? <input type="checkbox"/> Yes <input type="checkbox"/> No	
If so, describe disposal plan:	
Is the pond ever dewatered? <input type="checkbox"/> Yes <input type="checkbox"/> No	
If so, describe the purpose for dewatering and procedures for disposal of wastewater and/or sludge:	
Is(are) the pond(s) aerated? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Volume of pond(s):	gal. Dimensions:
Is the pond lined (Note if this is a new pond system it must be lined for SOP coverage. Otherwise, you must apply for an Underground Injection Control permit.)? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Describe the liner material (if soil liner is used give the compaction specifications):	
Is there an emergency overflow structure? <input type="checkbox"/> Yes <input type="checkbox"/> No	
<i>If so, provide a design drawing of structure.</i>	
Are monitoring wells or lysimeters installed near or around the pond(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No	
<i>If so, provide location information and describe monitoring protocols (attach additional sheets as necessary):</i>	

Permit Number: SOP- _____

Mobile Wash Operations:		<input checked="" type="checkbox"/> N/A
<input type="checkbox"/> Individual Operator <input type="checkbox"/> Fleet Operation Operator		
Indicate the type of equipment, vehicle, or structure to be washed during normal operations (check all that apply):		
<input type="checkbox"/> Cars <input type="checkbox"/> Trucks <input type="checkbox"/> Trailers (Interior washing of dump-trailers, or tanks, is prohibited.) <input type="checkbox"/> Other (describe):	<input type="checkbox"/> Parking Lot(s): sq. ft. <input type="checkbox"/> Windows: sq. ft. <input type="checkbox"/> Structures (describe):	
Wash operations take place at (check all that apply):		
<input type="checkbox"/> Car sales lot(s) <input type="checkbox"/> Private industry lot(s) <input type="checkbox"/> County(ies), list:	<input type="checkbox"/> Public parking lot(s) <input type="checkbox"/> Private property(ies) <input type="checkbox"/> Statewide	
Wash equipment description:		
<input type="checkbox"/> Truck mounted <input type="checkbox"/> Rinse tank size(s) (gal.): <input type="checkbox"/> Collection tank size(s) (gal.):	<input type="checkbox"/> Trailer mounted <input type="checkbox"/> Mixed tanks size(s) (gal.): Number of tanks per vehicle:	
Pressure washer: psi (rated) gpm (rated) <input type="checkbox"/> gas powered <input type="checkbox"/> electric		
Vacuum system manufacturer/model:		Vacuum system capacity: inches Hg
Describe any other method or system used to contain and collect wastewater:		
List the public sewer system where you are permitted or have written permission to discharge waste wash water (include a copy of the permit or permission letter):		
Are chemicals pre-mixed, prior to arriving at wash location? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Describe all soaps, detergents, or other chemicals used in the wash operation (attach additional sheets as necessary):		
Chemical name:	Manufacturer:	Primary CAS No. or Product No.

CTI PROJECT: N16003-01 (TN Dept. General Services TDEC) Bledsoe County Correctional Complex DRAWING: FIGURE 3 - PROPOSED PROCESS FLOW DIAGRAM (5/30/2018 9:12AM) LAYOUT: Layout1

DATE OF PRINT: 10/17/2018 2:40 PM



THIS DRAWING IS AN INSTRUMENT OF SERVICE OWNED BY CONSOLIDATED TECHNOLOGIES, INC. (CTI), WHICH SHALL BE DEEMED THE AUTHOR AND WHICH SHALL REMAIN ALL STATUTORY AND COMMON LAW RIGHTS RESERVED. NO PART OF THIS DRAWING SHALL NOT BE SCANNED, COPIED, OR DISTRIBUTED TO OTHERS IN ANY FORM OR USED FOR ANY OTHER PURPOSE OR PROJECT WITHOUT PRIOR WRITTEN CONSENT OF CTI. CTI IS NOT RESPONSIBLE FOR CONSEQUENCES RELATED TO UNAUTHORIZED USE OR REUSE OF THIS DRAWING OR PORTIONS THEREOF.

REVISIONS	DESIGN	BY	DATE	APPD
NO.	DSN			
DESCRIPTIONS	DWN			
	CHK			
	APR			

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

FIGURE 3
PROPOSED PROCESS FLOW DIAGRAM



JOB NO. N16003
ISSUE DATE JULY, 2018
SCALE N.T.S.
DRAWING NO. FIGURE 3

SOIL NAME SLOPE CLASS	LOADING RATE (G/D/FT^2)	DEPTH TO RESTRICTING LAYERS (INCHES)	SOIL IMPROVEMENT PRACTICES/ NOTES/ PERC STATUS
Lily, Hendon, Lonewood Complex, 0-5%	0.25	>20"	<p>This complex consists three similar map units that are so intermingled that they cannot be separated.</p> <p>The Lily series consists of moderately deep, well drained soils formed in residuum weathered primarily from sandstone. Permeability is moderately rapid. These nearly level to very steep soils are on ridge tops and hill sides. Slopes range from 0 to 10 percent.</p> <p>The Hendon series consists of deep, well drained, nearly level to sloping soils that formed in a loamy mantle 18 to 30 inches thick that is higher in silt content than the underlying loamy residuum that weathered from interbedded flat-lying sandstone, siltstone and shale. These soils are on broad interfluvies of the Cumberland Plateau and have a fragic layer in the subsoil. Slopes range from 0 to 10 percent.</p> <p>The Lonewood series consists of deep and very deep, well drained, moderately permeable soils. They formed in a silty mantle 1 to 3 feet thick and the underlying residuum of weathered shale and sandstone. These soils are on broad undulating and rolling plateaus of the Cumberland Mountains. Slopes range from 0 to 20 percent, but commonly range from 2 to 12 percent.</p>
Lily, Hendon, Lonewood Complex, 5-10%	0.25	>20"	<p>This complex consists three similar map units that are so intermingled that they cannot be separated.</p> <p>The Lily series consists of moderately deep, well drained soils formed in residuum weathered primarily from sandstone. Permeability is moderately rapid. These nearly level to very steep soils are on ridge tops and hill sides. Slopes range from 5 to 10 percent.</p> <p>The Hendon series consists of deep, well drained, nearly level to sloping soils that formed in a loamy mantle 18 to 30 inches thick that is higher in silt content than the underlying loamy residuum that weathered from interbedded flat-lying sandstone, siltstone and shale. These soils are on broad interfluvies of the Cumberland Plateau and have a fragic layer in the subsoil. Slopes range from 0 to 10 percent.</p> <p>The Lonewood series consists of deep and very deep, well drained, moderately permeable soils. They formed in a silty mantle 1 to 3 feet thick and the underlying residuum of weathered shale and sandstone. These soils are on broad undulating and rolling plateaus of the Cumberland Mountains. Slopes range from 0 to 20 percent, but commonly range from 2 to 12 percent.</p>
Ramsey, 0-5%	0.0	<20"	<p>The Ramsey series consists of shallow and very shallow, somewhat excessively drained soils that formed in residuum or colluvium weathered from sandstone or quartzite. They are dominantly on plateaus and upper slopes of mountains. Runoff is medium to rapid and permeability is rapid. Slopes range from 3 to 70 percent.</p>
Atkins, 0-5%	0.0	<20" TO REDOXIMORPHIC FEATURES	<p>The Atkins series consists of very deep, poorly drained soils formed in acid alluvium washed from upland soils that formed in shale and sandstone. Permeability is slow to moderate. Slope ranges from 0 to 3 percent. Mean annual precipitation is about 46 inches and the mean annual air temperature is about 54 degrees F.</p>
Sequoia, 0-15%	0.25	>20"	<p>Sequoia soils have formed in residuum from shale and are typically 40 inches or more to auger refusal. Subsoils are clayey and somewhat poorly structured with red and yellow mottling at depths below 24 inches.</p>

DWR Soil Pedon Description (Field) Form

Described By: Kenton Brotherton/ Billy Roach

Date: 9-27-2017

Site Location: BCCX WWTP Expansion, Bledsoe County, TN

Pit #: B11

SOP# (office use only):

Soil Series: Lonewood

Drainage Class: well

Soil Classification (control section): Fine-loamy

Ground Water:

Parent Material: sandstone

Erosion:

Climate:

Land Cover: Forest

Slope of Map Unit: 0-5

Slope of Pit: 5

Geomorphic Description:

Physiographic Location:

Additional Notes:

Soil Pedon Description

Horizon	Depths	Matrix Color	Depletions/Concentrations Redox/Mottles, etc.	Texture	Structure			Soil Horizon Notes
					Grade	Size	Type	
Ap	0-4	10YR 3/2		Loam	1	F	Gr	
Bt1	4-18	10YR 5/4		Silt Loam	2	F	SBK	
Bt2	18-25	10YR 5/6		Silt Loam	2	F	SBK	
Bt3	25-32	10YR 5/6		Clay Loam	2	F	SBK	
Bt4	32+	7.5YR 5/6		Clay Loam	2	F	SBK	

DWR Soil Pedon Description (Field) Form

Described By: Kenton Brotherton/ Billy Roach

Date: 9-27-2017

Site Location: BCCX WWTP Expansion, Bledsoe County, TN

Pit #: E8

SOP# (office use only):

Soil Series: Lily

Drainage Class: well

Soil Classification (control section): Fine-loamy

Ground Water:

Parent Material: sandstone

Erosion:

Climate:

Land Cover: Forest

Slope of Map Unit: 0-5

Slope of Pit: 7

Geomorphic Description:

Physiographic Location:

Additional Notes:

Soil Pedon Description

Horizon	Depths	Matrix Color	Depletions/Concentrations Redox/Mottles, etc.	Texture	Structure			Soil Horizon Notes
					Grade	Size	Type	
Ap	0-4	10YR 4/3		Loam	1	F	Gr	
Bt1	4-15	7.5YR 5/6		Clay Loam	2	F	SBK	
Bt2	15-26	7.5YR 5/5		Clay Loam	2	F	SBK	
Bt3	26-36	7.5YR 5/6		Sandy Clay Loam	2	F	SBK	
R	36+							

DWR Soil Pedon Description (Field) Form

Described By: Kenton Brotherton/ Billy Roach

Date: 9-27-2017

Site Location: BCCX WWTP Expansion, Bledsoe County, TN

Pit #: E14

SOP# (office use only):

Soil Series: Lily

Drainage Class: well

Soil Classification (control section): Fine-loamy

Ground Water:

Parent Material: sandstone

Erosion:

Climate:

Land Cover: Forest

Slope of Map Unit: 0-5

Slope of Pit: 4

Geomorphic Description:

Physiographic Location:

Additional Notes:

Soil Pedon Description

Horizon	Depths	Matrix Color	Depletions/Concentrations Redox/Mottles,etc.	Texture	Structure			Soil Horizon Notes
					Grade	Size	Type	
Ap	0-4	10YR 4/3		Loam	1	F	Gr	
Bt1	4-12	7.5YR 5/6		Clay Loam	2	F	SBK	
Bt2	12-24	7.5YR 5/5		Clay Loam	2	F	SBK	
Bt3	24-36	7.5YR 5/6		Sandy Clay Loam	2	F	SBK	
R	36+							

DWR Soil Pedon Description (Field) Form

Described By: Kenton Brotherton/ Billy Roach

Date: 9-27-2017

Site Location: BCCX WWTP Expansion, Bledsoe County, TN

Pit #: E17

SOP# (office use only):

Soil Series: Lonewood

Drainage Class: well

Soil Classification (control section): Fine-loamy

Ground Water:

Parent Material: sandstone

Erosion:

Climate:

Land Cover: Forest

Slope of Map Unit: 0-5

Slope of Pit: 4

Geomorphic Description:

Physiographic Location:

Additional Notes:

Soil Pedon Description

Horizon	Depths	Matrix Color	Depletions/Concentrations Redox/Mottles,etc.	Texture	Structure			Soil Horizon Notes
					Grade	Size	Type	
Ap	0-4	10YR 3/2		Silty Clay Loam	1	F	Gr	
Bt1	4-14	10YR 5/4		Silt Loam	2	F	SBK	
Bt2	14-23	10YR 5/6		SSilty Clay Loam	2	F	SBK	
Bt3	23-36	10YR 5/6		Silty Clay	2	F	SBK	
Bt4	36+							

DWR Soil Pedon Description (Field) Form

Described By: Kenton Brotherton/ Billy Roach

Date: 9-27-2017

Site Location: BCCX WWTP Expansion, Bledsoe County, TN

Pit #: H8

SOP# (office use only):

Soil Series: Lily

Drainage Class: well

Soil Classification (control section): Fine-loamy

Ground Water:

Parent Material: sandstone

Erosion:

Climate:

Land Cover: Forest

Slope of Map Unit: 5-10

Slope of Pit: 8

Geomorphic Description:

Physiographic Location:

Additional Notes:

Soil Pedon Description

Horizon	Depths	Matrix Color	Depletions/Concentrations Redox/Mottles,etc.	Texture	Structure			Soil Horizon Notes
					Grade	Size	Type	
Ap	0-4	10YR 4/3		Loam	1	F	Gr	
Bt1	4-12	7.5YR 5/6		Clay Loam	2	F	SBK	
Bt2	12-24	7.5YR 5/5		Clay Loam	2	F	SBK	
Bt3	24-34	7.5YR 5/6		Sandy Clay Loam	2	F	SBK	
R	34+							

DWR Soil Pedon Description (Field) Form

Described By: Kenton Brotherton/ Billy Roach

Date: 9-27-2017

Site Location: BCCX WWTP Expansion, Bledsoe County, TN

Pit #: H11

SOP# (office use only:

Soil Series: Lily

Drainage Class: well

Soil Classification (control section): Fine-loamy

Ground Water:

Parent Material: sandstone

Erosion:

Climate:

Land Cover: Forest

Slope of Map Unit: 5-10

Slope of Pit: 8

Geomorphic Description:

Physiographic Location:

Additional Notes:

Soil Pedon Description

Horizon	Depths	Matrix Color	Depletions/Concentrations Redox/Mottles, etc.	Texture	Structure			Soil Horizon Notes
					Grade	Size	Type	
Ap	0-4	10YR 4/3		Loam	1	F	Gr	
Bt1	4-12	7.5YR 5/6		Clay Loam	2	F	SBK	
Bt2	12-24	7.5YR 5/5		Clay Loam	2	F	SBK	
Bt3	24-34	7.5YR 5/6		Sandy Clay Loam	2	F	SBK	
R	34+							

DWR Soil Pedon Description (Field) Form

Described By: Kenton Brotherton/ Billy Roach

Date: 9-27-2017

Site Location: BCCX WWTP Expansion, Bledsoe County, TN

Pit #: J20

SOP# (office use only):

Soil Series: Lily

Drainage Class: well

Soil Classification (control section): Fine-loamy

Ground Water:

Parent Material: sandstone

Erosion:

Climate:

Land Cover: Forest

Slope of Map Unit: 5-10

Slope of Pit: 7

Geomorphic Description:

Physiographic Location:

Additional Notes:

Soil Pedon Description

Horizon	Depths	Matrix Color	Depletions/Concentrations Redox/Mottles,etc.	Texture	Structure			Soil Horizon Notes
					Grade	Size	Type	
Ap	0-4	10YR 4/3		Loam	1	F	Gr	
Bt1	4-12	7.5YR 5/6		Clay Loam	2	F	SBK	
Bt2	12-24	7.5YR 5/5		Clay Loam	2	F	SBK	
Bt3	24-34	7.5YR 5/6		Sandy Clay Loam	2	F	SBK	
R	34+							

DWR Soil Pedon Description (Field) Form

Described By: Kenton Brotherton/ Billy Roach Date: 12-19-2017

Site Location: BCCX WWTP Expansion, Bledsoe County, TN

Pit #: E2-2 SOP# (office use only): _____

Soil Series: Lonewood Drainage Class: well

Soil Classification (control section): Fine-loamy Ground Water: _____

Parent Material: sandstone Erosion: _____

Climate: _____ Land Cover: Forest

Slope of Map Unit: 0-5 Slope of Pit: 4

Geomorphic Description: _____

Physiographic Location: _____

Additional Notes: _____

Soil Pedon Description

Horizon	Depths	Matrix Color	Depletions/Concentrations Redox/Mottles,etc.	Texture	Structure			Soil Horizon Notes
					Grade	Size	Type	
Ap	0-4	10YR 3/2		Silty Clay Loam	1	F	Gr	
Bt1	4-15	10YR 5/4		Silt Loam	2	F	SBK	
Bt2	15-24	10YR 5/6		SSilty Clay Loam	2	F	SBK	
Bt3	24-34	10YR 5/6		Silty Clay	2	F	SBK	
Bt4	34+							

DWR Soil Pedon Description (Field) Form

Described By: Kenton Brotherton/ Billy Roach Date: 12-19-2017

Site Location: BCCX WWTP Expansion, Bledsoe County, TN

Pit #: D7-2 SOP# (office use only): _____

Soil Series: Lonewood Drainage Class: well

Soil Classification (control section): Fine-loamy Ground Water: _____

Parent Material: sandstone Erosion: _____

Climate: _____ Land Cover: Forest

Slope of Map Unit: 0-5 Slope of Pit: 4

Geomorphic Description: _____

Physiographic Location: _____

Additional Notes: _____

Soil Pedon Description

Horizon	Depths	Matrix Color	Depletions/Concentrations Redox/Mottles,etc.	Texture	Structure			Soil Horizon Notes
					Grade	Size	Type	
Ap	0-4	10YR 3/2		Silty Clay Loam	1	F	Gr	
Bt1	4-14	10YR 5/4		Silt Loam	2	F	SBK	
Bt2	14-23	10YR 5/6		SSilty Clay Loam	2	F	SBK	
Bt3	23-32	10YR 5/6		Silty Clay	2	F	SBK	
Bt4	32+							

DWR Soil Pedon Description (Field) Form

Described By: Kenton Brotherton/ Billy Roach

Date: 12-19-2017

Site Location: BCCX WWTP Expansion, Bledsoe County, TN

Pit #: C23-2

SOP# (office use only):

Soil Series: Sequoia

Drainage Class: well

Soil Classification (control section): Fine

Ground Water:

Parent Material: shale and siltstone

Erosion:

Climate:

Land Cover: Forest

Slope of Map Unit: 0-5

Slope of Pit: 2

Geomorphic Description:

Physiographic Location:

Additional Notes:

Soil Pedon Description

Horizon	Depths	Matrix Color	Depletions/Concentrations Redox/Mottles,etc.	Texture	Structure			Soil Horizon Notes
					Grade	Size	Type	
Ap	0-5	10YR 4/2		Loam	1	F	Gr	
Bt1	5-10	7.5YR 5/6		Clay Loam	2	F	SBK	
Bt2	10-24	5YR 5/8		Clay	2	F	SBK	
Bt3	24-34	5YR 5/8	10YR 7/8, 10YR 6/3	Clay	2	F	SBK	
BC	34+							

DWR Soil Pedon Description (Field) Form

Described By: Kenton Brotherton/ Billy Roach Date: 12-19-2017

Site Location: BCCX WWTP Expansion, Bledsoe County, TN

Pit #: H6-2 SOP# (office use only): _____

Soil Series: Lily Drainage Class: well

Soil Classification (control section): Fine-loamy Ground Water: _____

Parent Material: sandstone Erosion: _____

Climate: _____ Land Cover: Forest

Slope of Map Unit: 5-10 Slope of Pit: 8

Geomorphic Description: _____

Physiographic Location: _____

Additional Notes: _____

Soil Pedon Description

Horizon	Depths	Matrix Color	Depletions/Concentrations Redox/Mottles,etc.	Texture	Structure			Soil Horizon Notes
					Grade	Size	Type	
Ap	0-4	10YR 4/3		Loam	1	F	Gr	
Bt1	4-12	7.5YR 5/6		Clay Loam	2	F	SBK	
Bt2	12-24	7.5YR 5/5		Clay Loam	2	F	SBK	
Bt3	24-34	7.5YR 5/6		Sandy Clay Loam	2	F	SBK	
R	34+							

DWR Soil Pedon Description (Field) Form

Described By: Kenton Brotherton/ Billy Roach

Date: 12-19-2017

Site Location: BCCX WWTP Expansion, Bledsoe County, TN

Pit #: F26-2

SOP# (office use only): _____

Soil Series: Lonewood

Drainage Class: well

Soil Classification (control section): Fine-loamy

Ground Water: _____

Parent Material: sandstone

Erosion: _____

Climate: _____

Land Cover: Forest

Slope of Map Unit: 0-5

Slope of Pit: 4

Geomorphic Description: _____

Physiographic Location: _____

Additional Notes: _____

Soil Pedon Description

Horizon	Depths	Matrix Color	Depletions/Concentrations Redox/Mottles,etc.	Texture	Structure			Soil Horizon Notes
					Grade	Size	Type	
Ap	0-4	10YR 3/2		Silty Clay Loam	1	F	Gr	
Bt1	4-14	10YR 5/4		Silt Loam	2	F	SBK	
Bt2	14-23	10YR 5/6		SSilty Clay Loam	2	F	SBK	
Bt3	23-36	10YR 5/6		Silty Clay	2	F	SBK	
Bt4	36+							

DWR Soil Pedon Description (Field) Form

Described By: Kenton Brotherton/ Billy Roach

Date: 12-19-2017

Site Location: BCCX WWTP Expansion, Bledsoe County, TN

Pit #: F7-2

SOP# (office use only):

Soil Series: Lily

Drainage Class: well

Soil Classification (control section): Fine-loamy

Ground Water:

Parent Material: sandstone

Erosion:

Climate:

Land Cover: Forest

Slope of Map Unit: 5-10

Slope of Pit: 8

Geomorphic Description:

Physiographic Location:

Additional Notes:

Soil Pedon Description

Horizon	Depths	Matrix Color	Depletions/Concentrations Redox/Mottles,etc.	Texture	Structure			Soil Horizon Notes
					Grade	Size	Type	
Ap	0-4	10YR 4/3		Loam	1	F	Gr	
Bt1	4-12	7.5YR 5/6		Clay Loam	2	F	SBK	
Bt2	12-24	7.5YR 5/5		Clay Loam	2	F	SBK	
Bt3	24-34	7.5YR 5/6		Sandy Clay Loam	2	F	SBK	
R	34+							

DWR Soil Pedon Description (Field) Form

Described By: Kenton Brotherton/ Billy Roach

Date: 12-19-2017

Site Location: BCCX WWTP Expansion, Bledsoe County, TN

Pit #: K23-2

SOP# (office use only):

Soil Series: Sequoia

Drainage Class: well

Soil Classification (control section): Fine

Ground Water:

Parent Material: shale and siltstone

Erosion:

Climate:

Land Cover: Forest

Slope of Map Unit: 0-5

Slope of Pit: 2

Geomorphic Description:

Physiographic Location:

Additional Notes:

Soil Pedon Description

Horizon	Depths	Matrix Color	Depletions/Concentrations Redox/Mottles,etc.	Texture	Structure			Soil Horizon Notes
					Grade	Size	Type	
Ap	0-5	10YR 4/2		Loam	1	F	Gr	
Bt1	5-10	7.5YR 5/6		Clay Loam	2	F	SBK	
Bt2	10-24	5YR 5/8		Clay	2	F	SBK	
Bt3	24-36	5YR 5/8	10YR 7/8, 10YR 6/3	Clay	2	F	SBK	
BC	36+							

DWR Soil Pedon Description (Field) Form

Described By: Kenton Brotherton/ Billy Roach

Date: 12-19-2017

Site Location: BCCX WWTP Expansion, Bledsoe County, TN

Pit #: J5-2

SOP# (office use only):

Soil Series: Lonewood

Drainage Class: well

Soil Classification (control section): Fine-loamy

Ground Water:

Parent Material: sandstone

Erosion:

Climate:

Land Cover: Forest

Slope of Map Unit: 0-5

Slope of Pit: 5

Geomorphic Description:

Physiographic Location:

Additional Notes:

Soil Pedon Description

Horizon	Depths	Matrix Color	Depletions/Concentrations Redox/Mottles,etc.	Texture	Structure			Soil Horizon Notes
					Grade	Size	Type	
Ap	0-4	10YR 3/2		Loam	1	F	Gr	
Bt1	4-18	10YR 5/4		Silt Loam	2	F	SBK	
Bt2	18-25	10YR 5/6		Silt Loam	2	F	SBK	
Bt3	25-32	10YR 5/6		Clay Loam	2	F	SBK	
Bt4	32+	7.5YR 5/6		Clay Loam	2	F	SBK	

DWR Soil Pedon Description (Field) Form

Described By: Kenton Brotherton/ Billy Roach

Date: 12-19-2017

Site Location: BCCX WWTP Expansion, Bledsoe County, TN

Pit #: O24-2

SOP# (office use only):

Soil Series: Sequoia

Drainage Class: well

Soil Classification (control section): Fine

Ground Water:

Parent Material: shale and siltstone

Erosion:

Climate:

Land Cover: Forest

Slope of Map Unit: 0-5

Slope of Pit: 2

Geomorphic Description:

Physiographic Location:

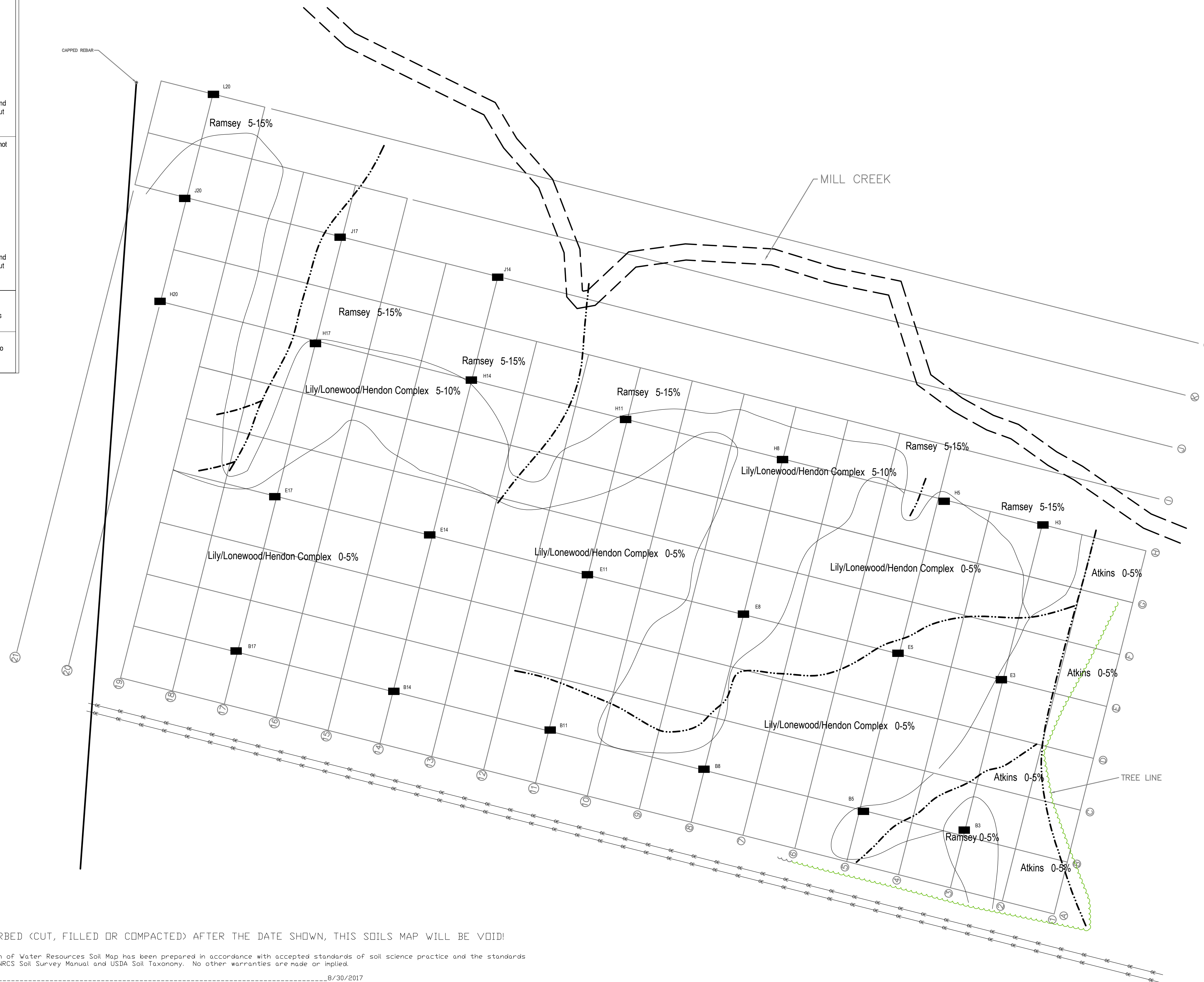
Additional Notes:

Soil Pedon Description

Horizon	Depths	Matrix Color	Depletions/Concentrations Redox/Mottles,etc.	Texture	Structure			Soil Horizon Notes
					Grade	Size	Type	
Ap	0-5	10YR 4/2		Loam	1	F	Gr	
Bt1	5-8	7.5YR 5/6		Clay Loam	2	F	SBK	
Bt2	8-22	5YR 5/8		Clay	2	F	SBK	
Bt3	22-35	5YR 5/8	10YR 7/8, 10YR 6/3	Clay	2	F	SBK	
BC	35+							

EXTRA HIGH INTENSITY SOILS MAP FOR
 SPRAY IRRIGATION SYSTEMS
 Bledsoe County Correctional Complex
 1045 Horsehead Road
 Bledsoe County, TN

SOIL NAME SLOPE CLASS	LOADING RATE (G/D/FT^2)	DEPTH TO RESTRICTING LAYERS (INCHES)	SOIL IMPROVEMENT PRACTICES/ NOTES/ PERC STATUS
Lily, Hendon, Lonewood Complex, 0-5%	0.25	>20"	This complex consists three similar map units that are so intermingled that they cannot be separated. The Lily series consists of moderately deep, well drained soils formed in residuum weathered primarily from sandstone. Permeability is moderately rapid. These nearly level to very steep soils are on ridge tops and hill sides. Slopes range from 0 to 10 percent. The Hendon series consists of deep, well drained, nearly level to sloping soils that formed in a loamy mantle 18 to 30 inches thick that is higher in silt content than the underlying loamy residuum that weathered from interbedded flat-lying sandstone, siltstone and shale. These soils are on broad interfluvial of the Cumberland Plateau and have a fragic layer in the subsoil. Slopes range from 0 to 10 percent. The Lonewood series consists of deep and very deep, well drained, moderately permeable soils. They formed in a silty mantle 1 to 3 feet thick and the underlying residuum of weathered shale and sandstone. These soils are on broad undulating and rolling plateaus of the Cumberland Mountains. Slopes range from 0 to 20 percent, but commonly range from 2 to 12 percent.
Lily, Hendon, Lonewood Complex, 5-10%	0.25	>20"	This complex consists three similar map units that are so intermingled that they cannot be separated. The Lily series consists of moderately deep, well drained soils formed in residuum weathered primarily from sandstone. Permeability is moderately rapid. These nearly level to very steep soils are on ridge tops and hill sides. Slopes range from 5 to 10 percent. The Hendon series consists of deep, well drained, nearly level to sloping soils that formed in a loamy mantle 18 to 30 inches thick that is higher in silt content than the underlying loamy residuum that weathered from interbedded flat-lying sandstone, siltstone and shale. These soils are on broad interfluvial of the Cumberland Plateau and have a fragic layer in the subsoil. Slopes range from 0 to 10 percent. The Lonewood series consists of deep and very deep, well drained, moderately permeable soils. They formed in a silty mantle 1 to 3 feet thick and the underlying residuum of weathered shale and sandstone. These soils are on broad undulating and rolling plateaus of the Cumberland Mountains. Slopes range from 0 to 20 percent, but commonly range from 2 to 12 percent.
Ramsey, 0-5%	0.0	<20"	The Ramsey series consists of shallow and very shallow, somewhat excessively drained soils that formed in residuum or colluvium weathered from sandstone or quartzite. They are dominantly on plateaus and upper slopes of mountains. Runoff is medium to rapid and permeability is rapid. Slopes range from 3 to 70 percent.
Atkins, 0-5%	0.0	<20" TO REDOXIMORPHIC FEATURES	The Atkins series consists of very deep, poorly drained soils formed in acid alluvium washed from upland soils that formed in shale and sandstone. Permeability is slow to moderate. Slope ranges from 0 to 3 percent. Mean annual precipitation is about 46 inches and the mean annual air temperature is about 54 degrees F.



Map Legend
 lot corner □
 control flag ● A1
 drain (25' setbacks) - - - - -
 drain (15' setbacks) - - - - -
 gully (15' setbacks) - - - - -
 cut bank - - - - -
 drive - - - - -
 rock outcrop - - - - -
 doline bottom - - - - -
 culvert - - - - -
 fence - - - - -
 soil pit ■

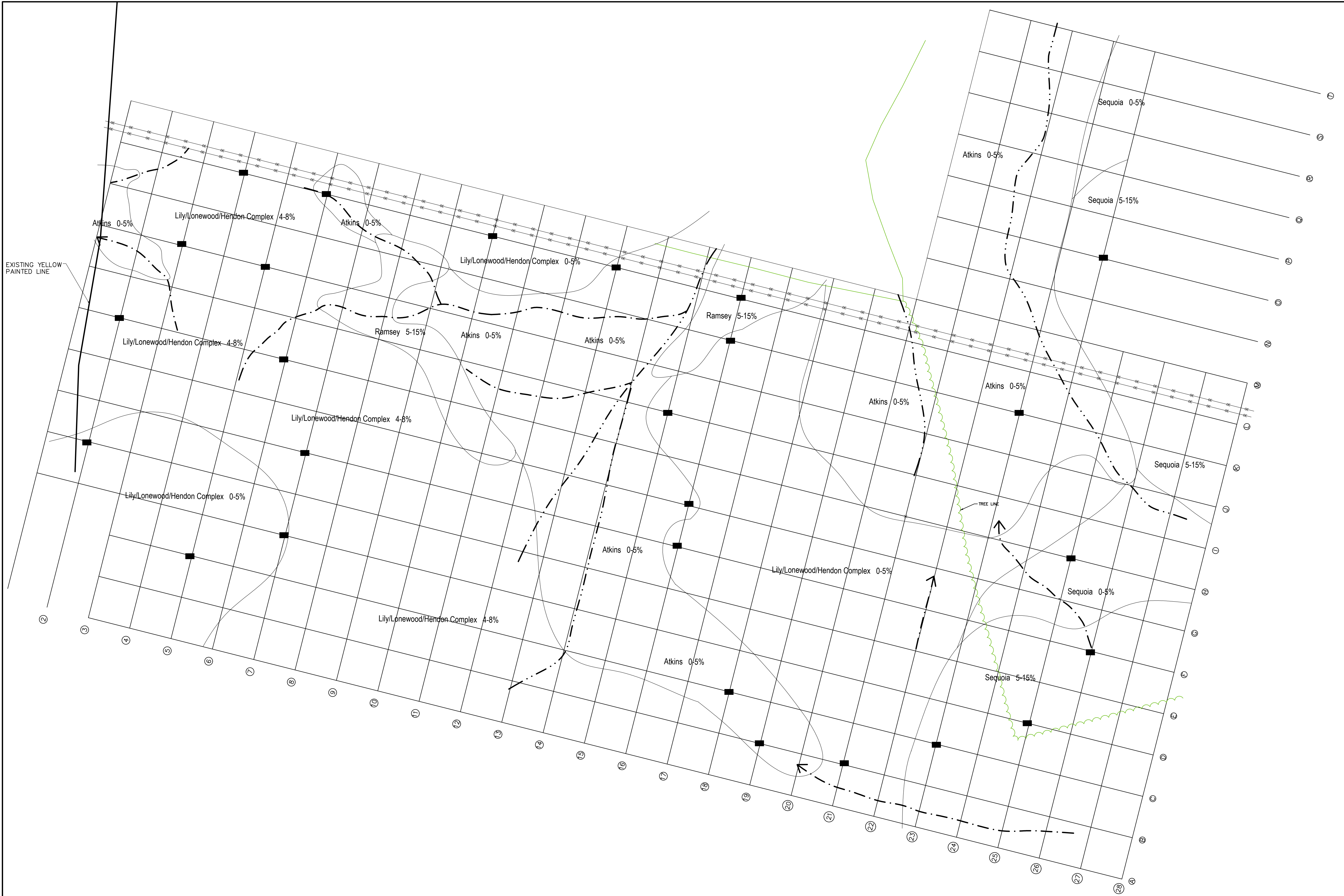
scale
 1"=100'

IF THESE SOILS ARE DISTURBED (CUT, FILLED OR COMPACTED) AFTER THE DATE SHOWN, THIS SOILS MAP WILL BE VOID!

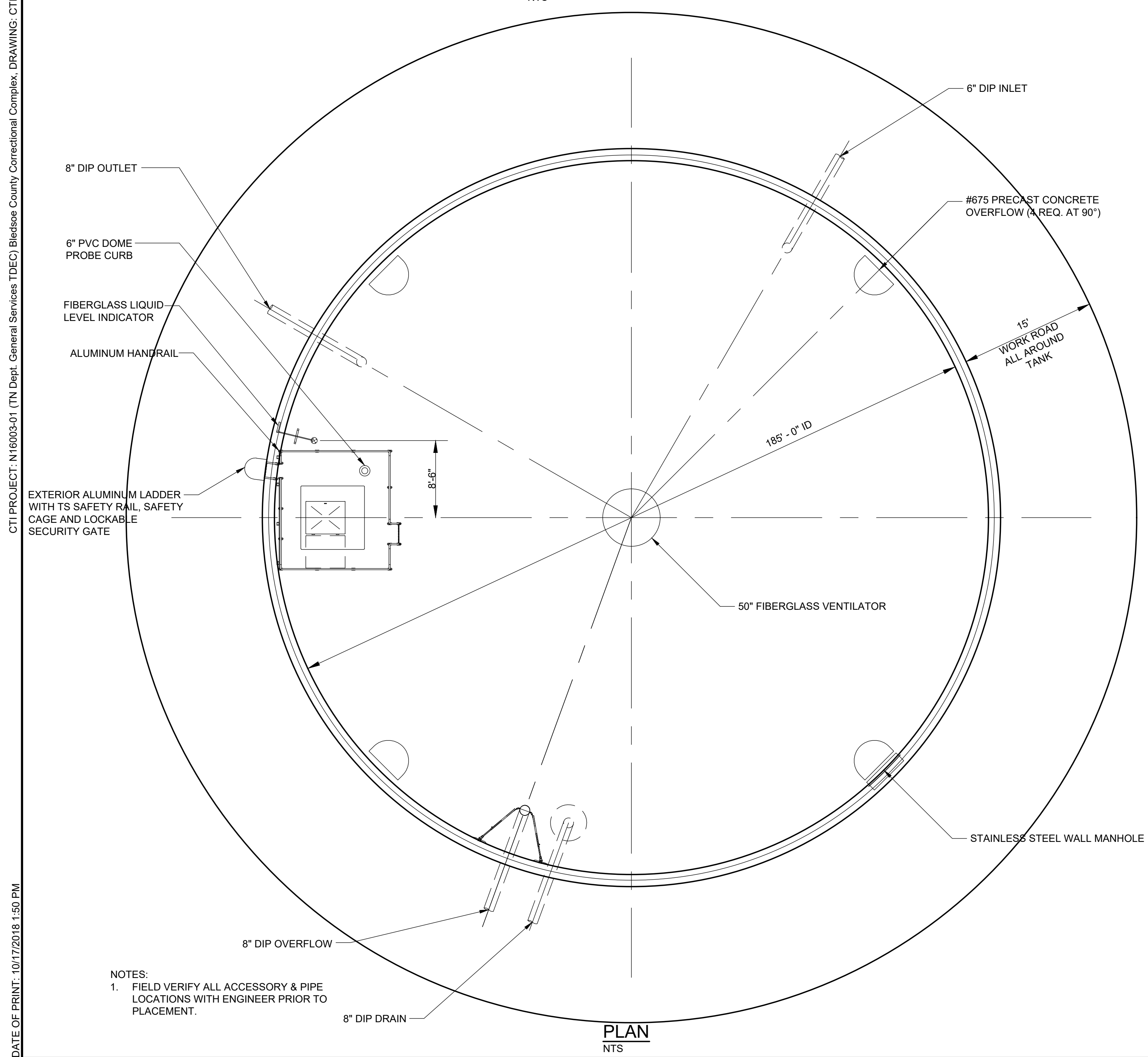
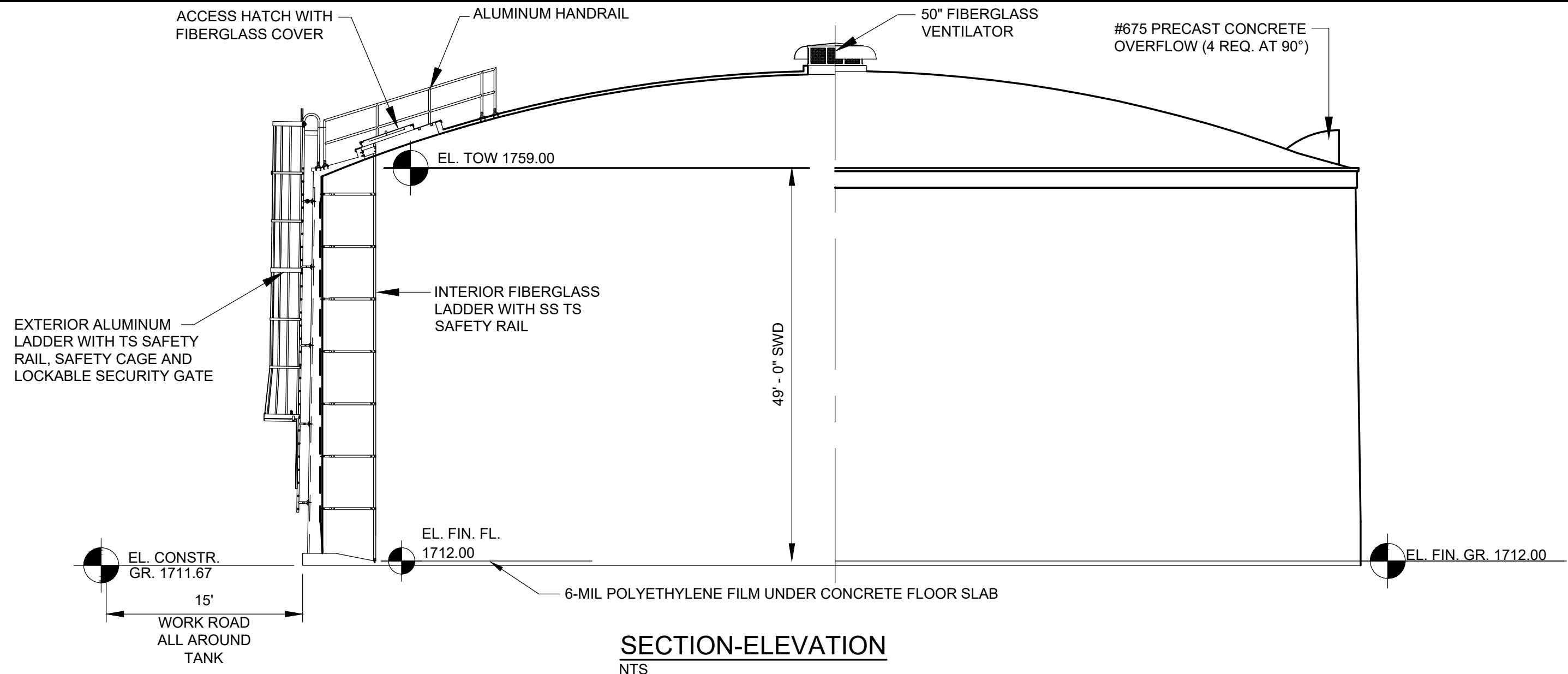
I, Kevin Davis, affirm that this Division of Water Resources Soil Map has been prepared in accordance with accepted standards of soil science practice and the standards and methodologies established in the NRCS Soil Survey Manual and USDA Soil Taxonomy. No other warranties are made or implied.

8/30/2017

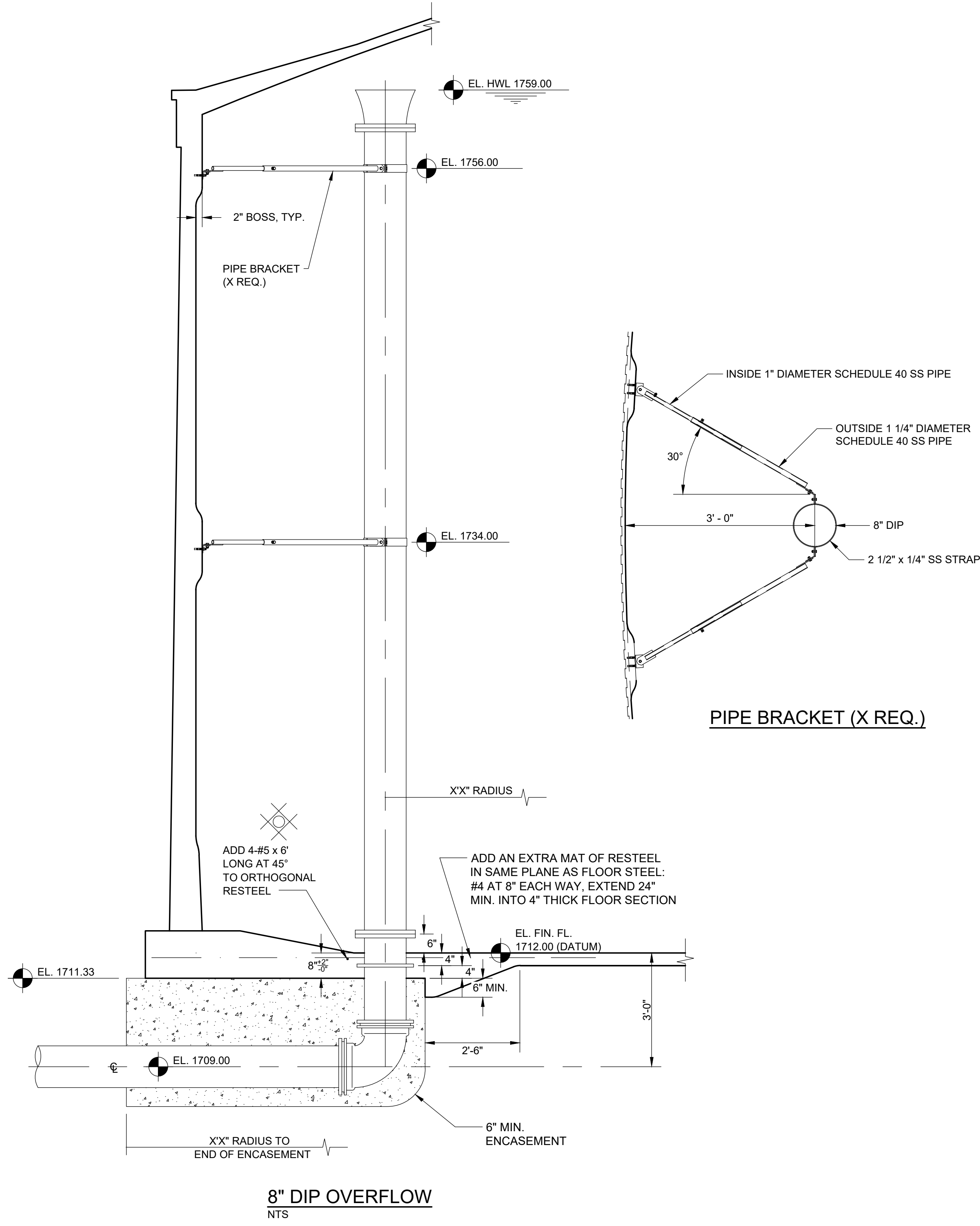
EXTRA- HIGH INTENSITY SOILS MAP BY:
 IWS, INC.
 3675 Brown Springs Road
 Greenville, TN 37743
 (423) 620-0036
 (865) 776-8771



DATE OF PRINT: 10/17/2018 1:50 PM
 CTT PROJECT: N16003-01 (TN Dept. General Services TDEC) Bledsoe County Correctional Complex, DRAWING: CTT - M-1101 EFFLUENT STORAGE TANK PLAN (568510v14/10/17/18 12:24PM), LAYOUT: 2.0 INDEX



NOTES:
 1. FIELD VERIFY ALL ACCESSORY & PIPE LOCATIONS WITH ENGINEER PRIOR TO PLACEMENT.

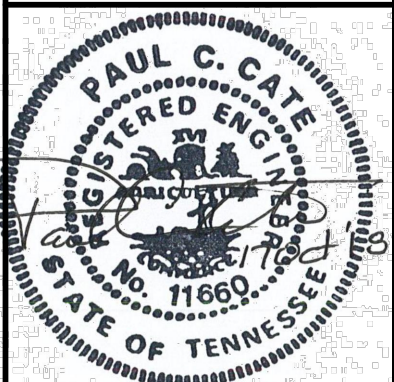
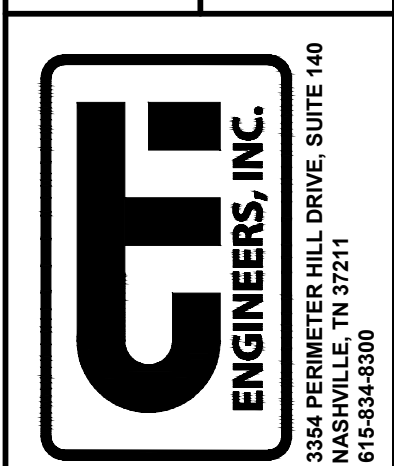


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REVISIONS		DATE	BY	APPD
NO.	DESCRIPTIONS			

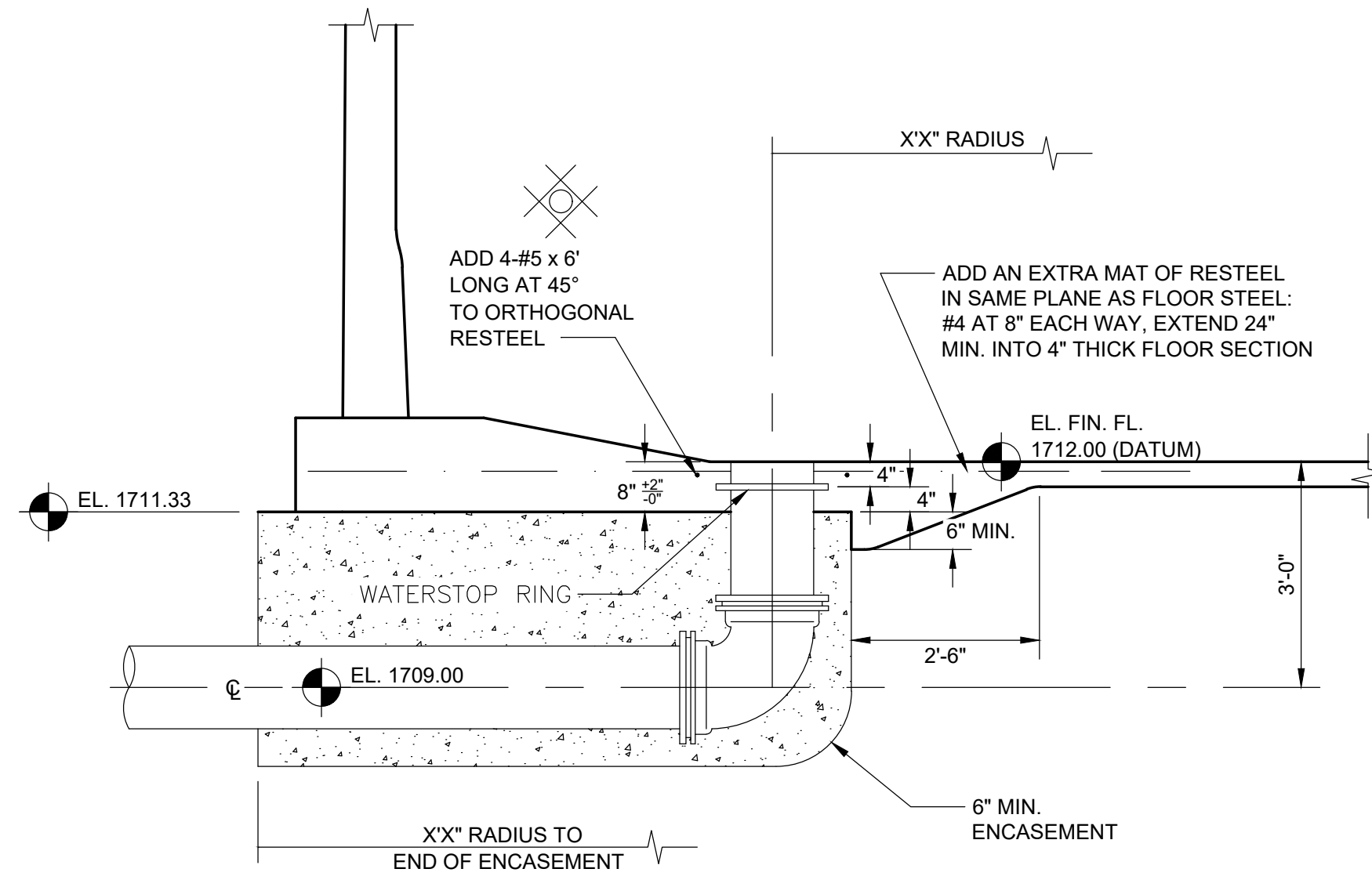
DESIGN	DRAWN	CHECKED	APPROVED
NH	JRH	NH	NH

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

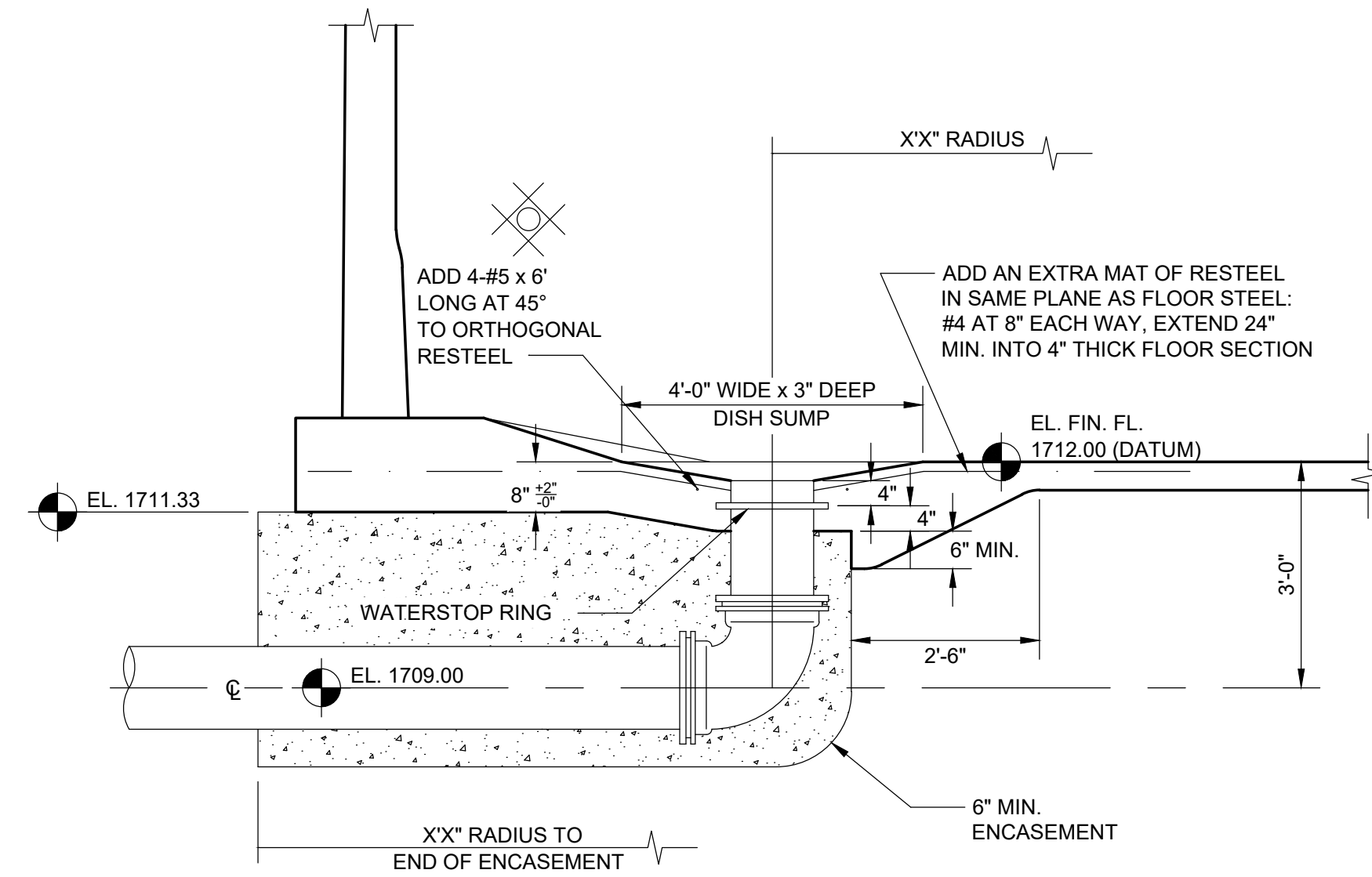


JOB NO.	N16003
ISSUE DATE	July, 2018
SCALE	AS NOTED
DRAWING NO.	M-1101

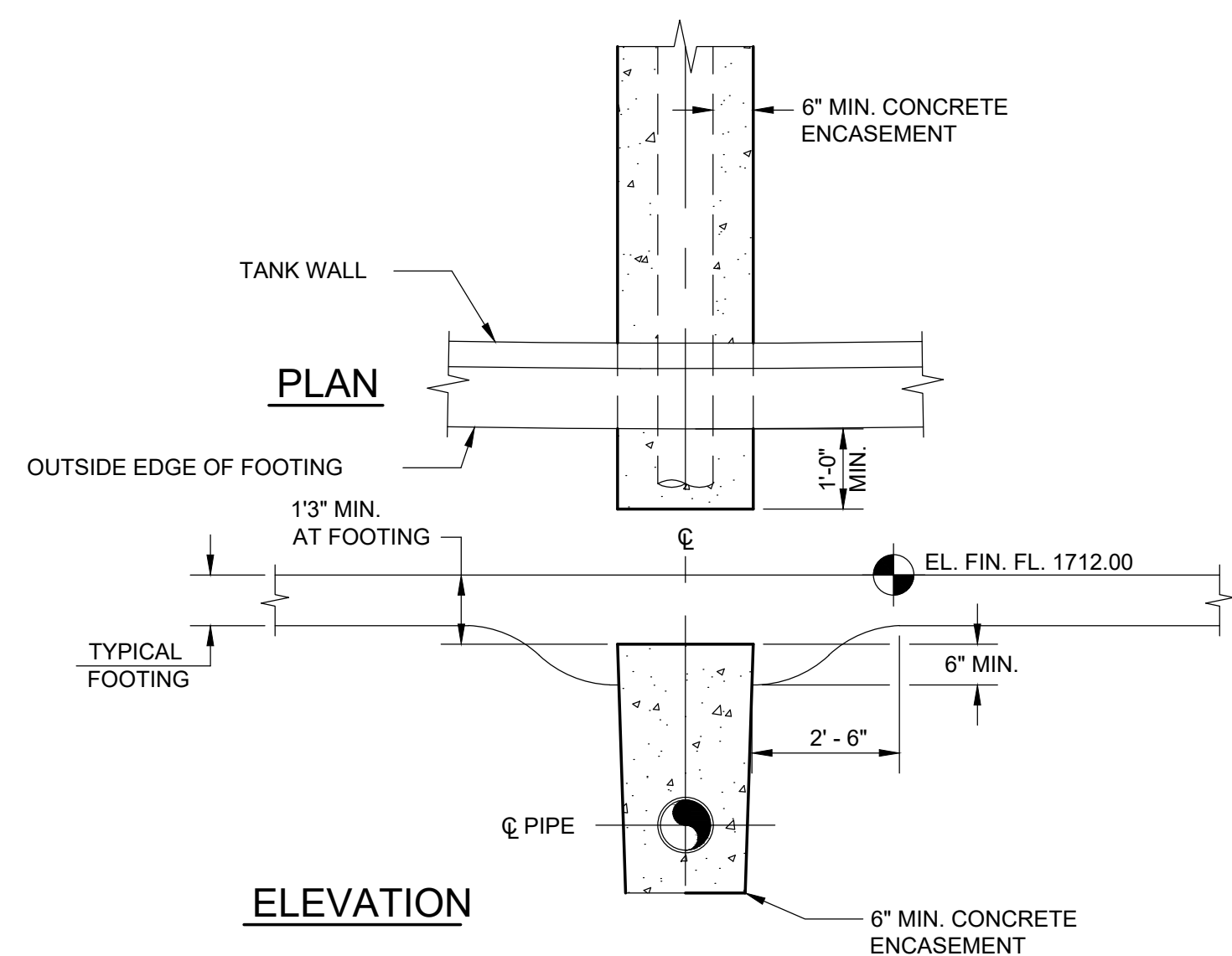
CTTI PROJECT: N16003-01 (TN Dept. General Services TDEC) Bledsoe County Correctional Complex, DRAWING: CTI - M-1102 EFFLUENT STORAGE TANK DETAILS (1 OF 3) (558514v14/10/18 12:24PM), LAYOUT: 2.0 INDEX
 DATE OF PRINT: 10/17/2018 12:25 PM



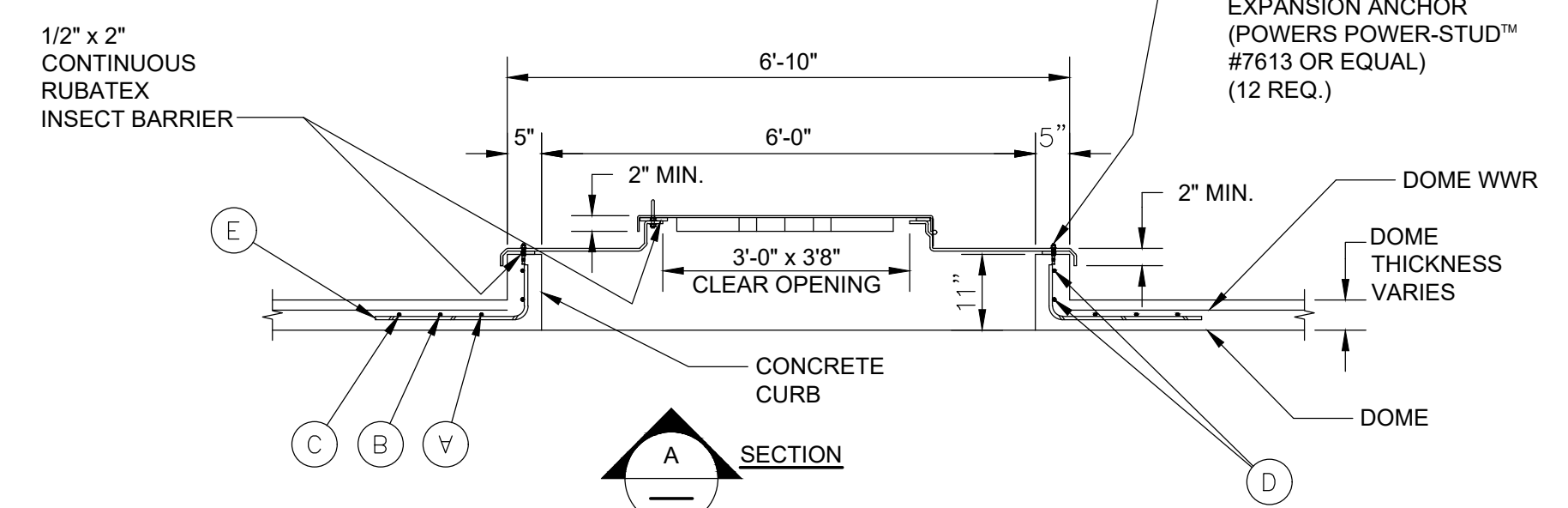
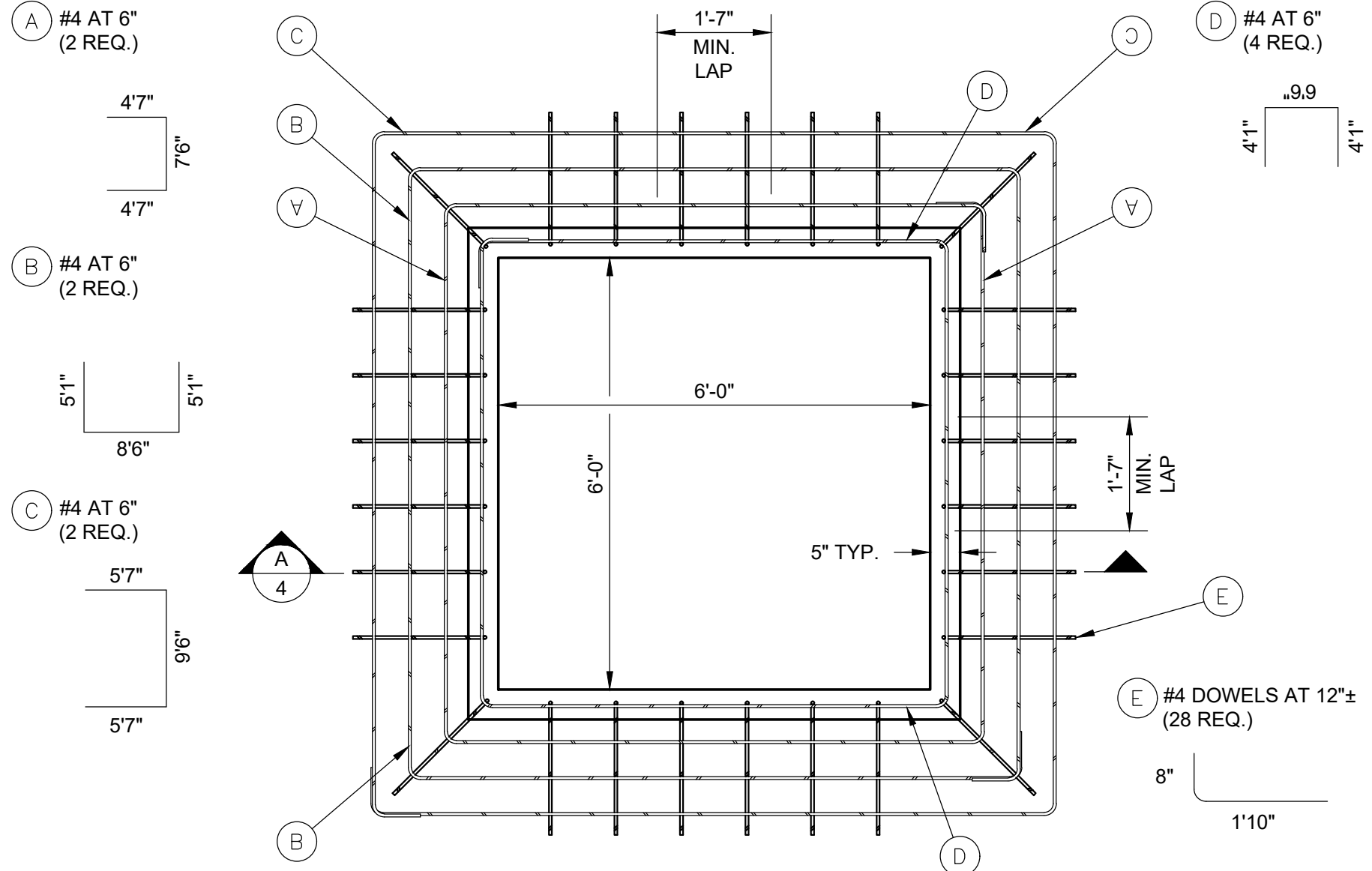
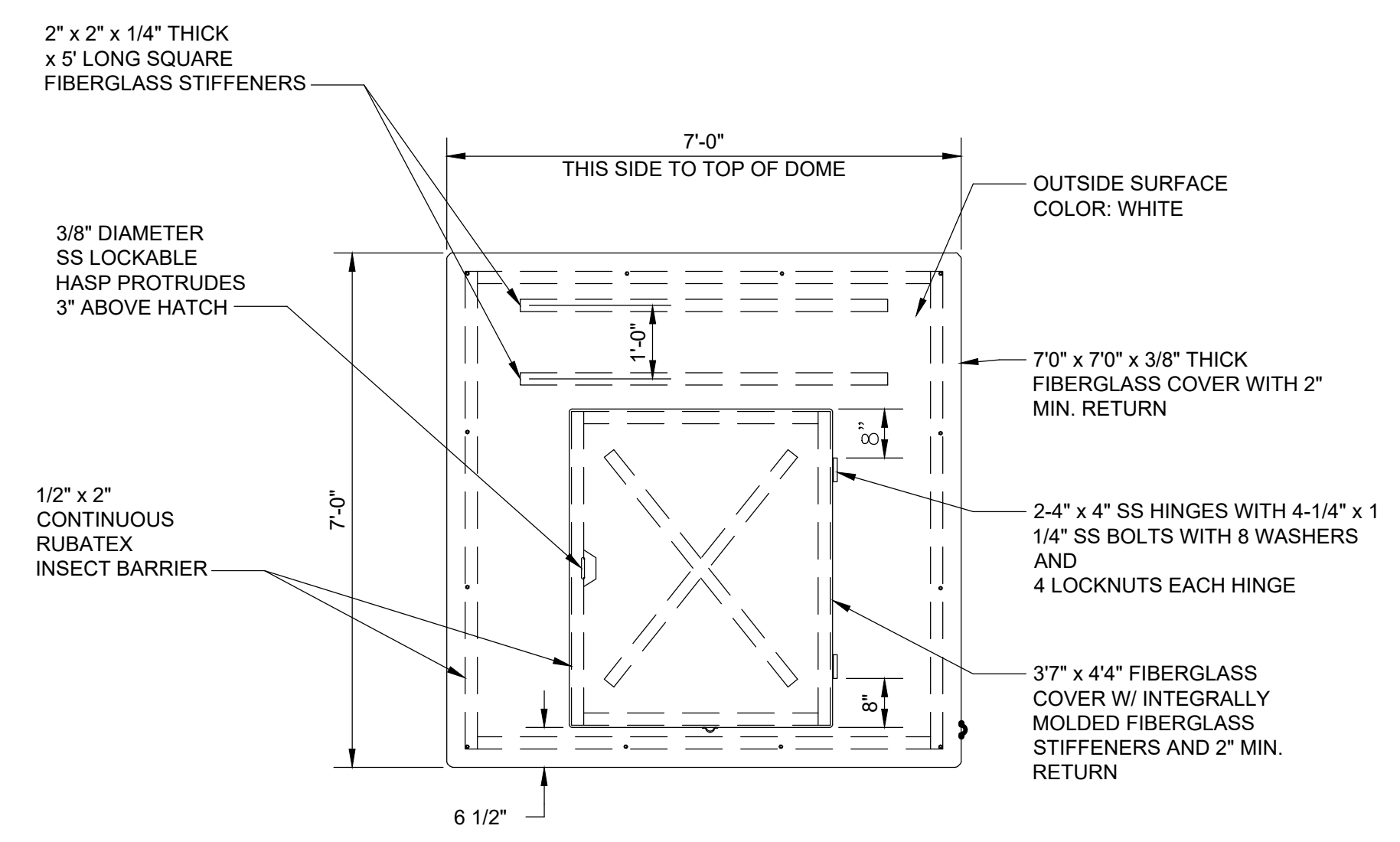
8" DIP INLET AND 8" DIP OUTLET



8" DIP DRAIN

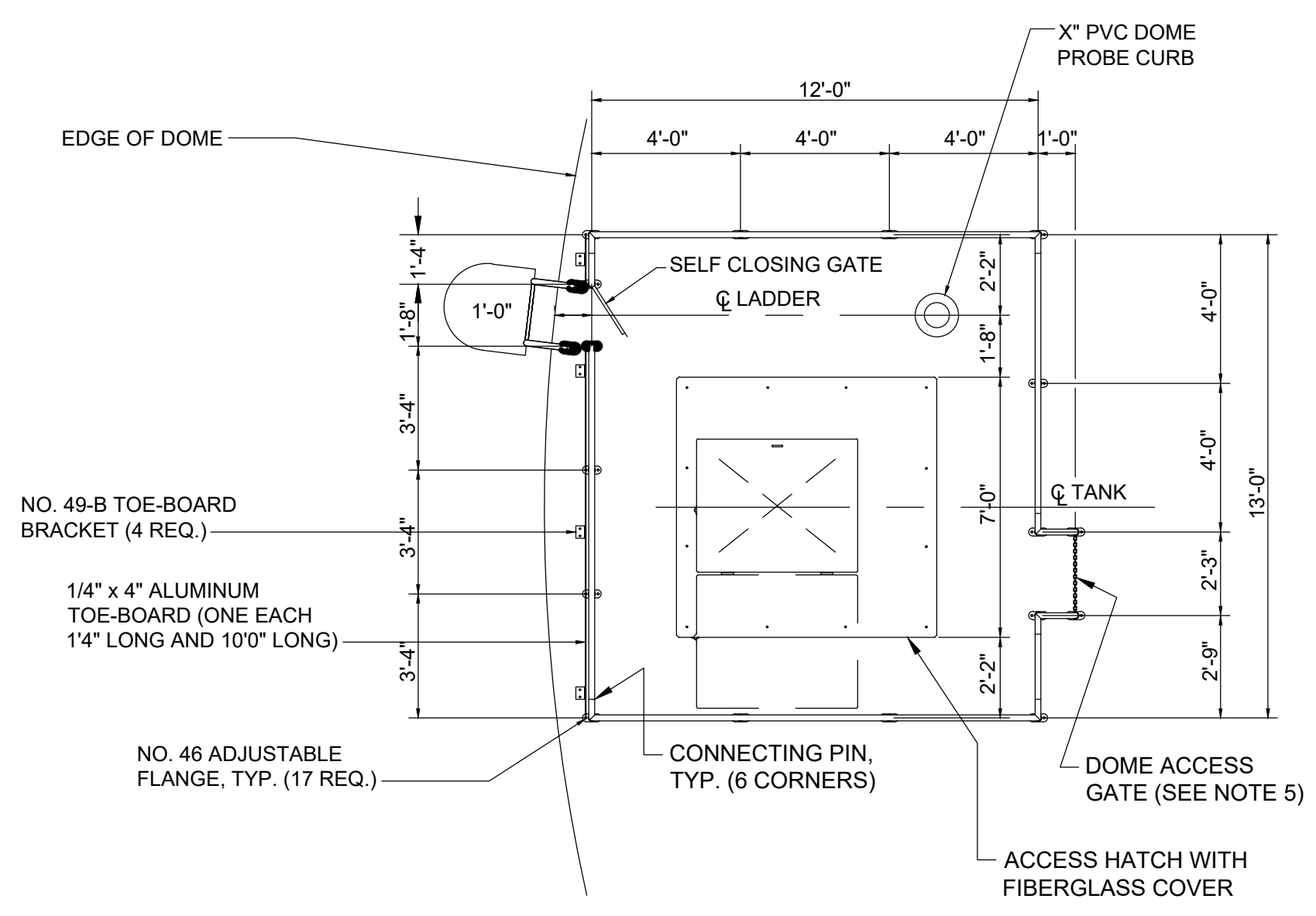


TYPICAL PIPE ENCASEMENT AT FOOTING

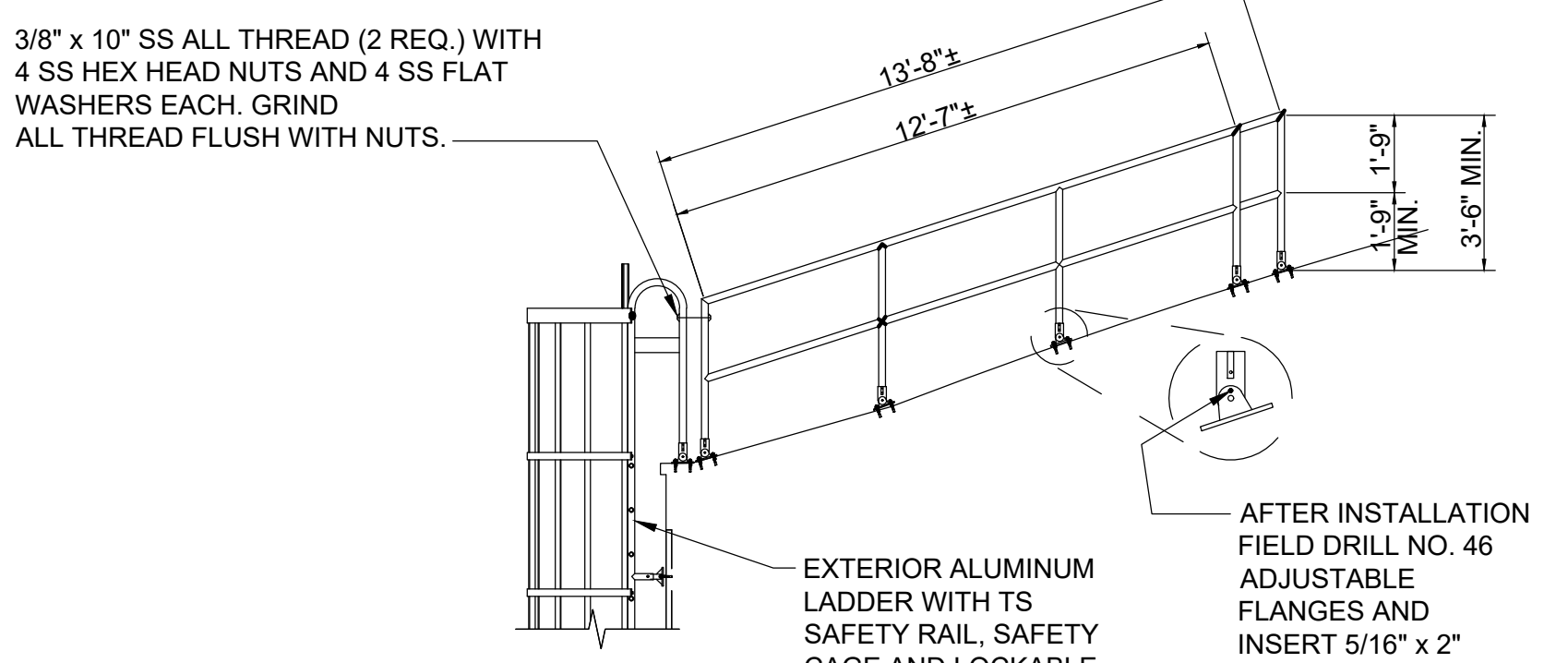


ACCESS HATCH WITH FIBERGLASS COVER

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



PLAN



ELEVATION

ALUMINUM HANDRAIL

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

- NOTES:
- USE HOLLANDER HIGH TENSILE ALUMINUM ALLOY FITTINGS.
 - USE 1 1/2" SCHEDULE 40/6061-T6 ALUMINUM PIPE.
 - TOEBOARDS TO BE 6061-T6 ALUMINUM.
 - USE 1/2" x 2 3/4" 316 SS EXPANSION ANCHORS (POWERS POWER-STUD™ #7620 OR EQUAL)(42 REQ.).
 - 316 SS CHAIN WITH CLASS "D" HOOK AT ONE END x 26" LONG.
 - ALL ALUMINUM IN DIRECT CONTACT WITH CONCRETE SHALL BE COATED WITH A MINIMUM 8.0 DRY MIL THICKNESS SERIES 46-465 H.B. TNEMECOL OR EQUAL.

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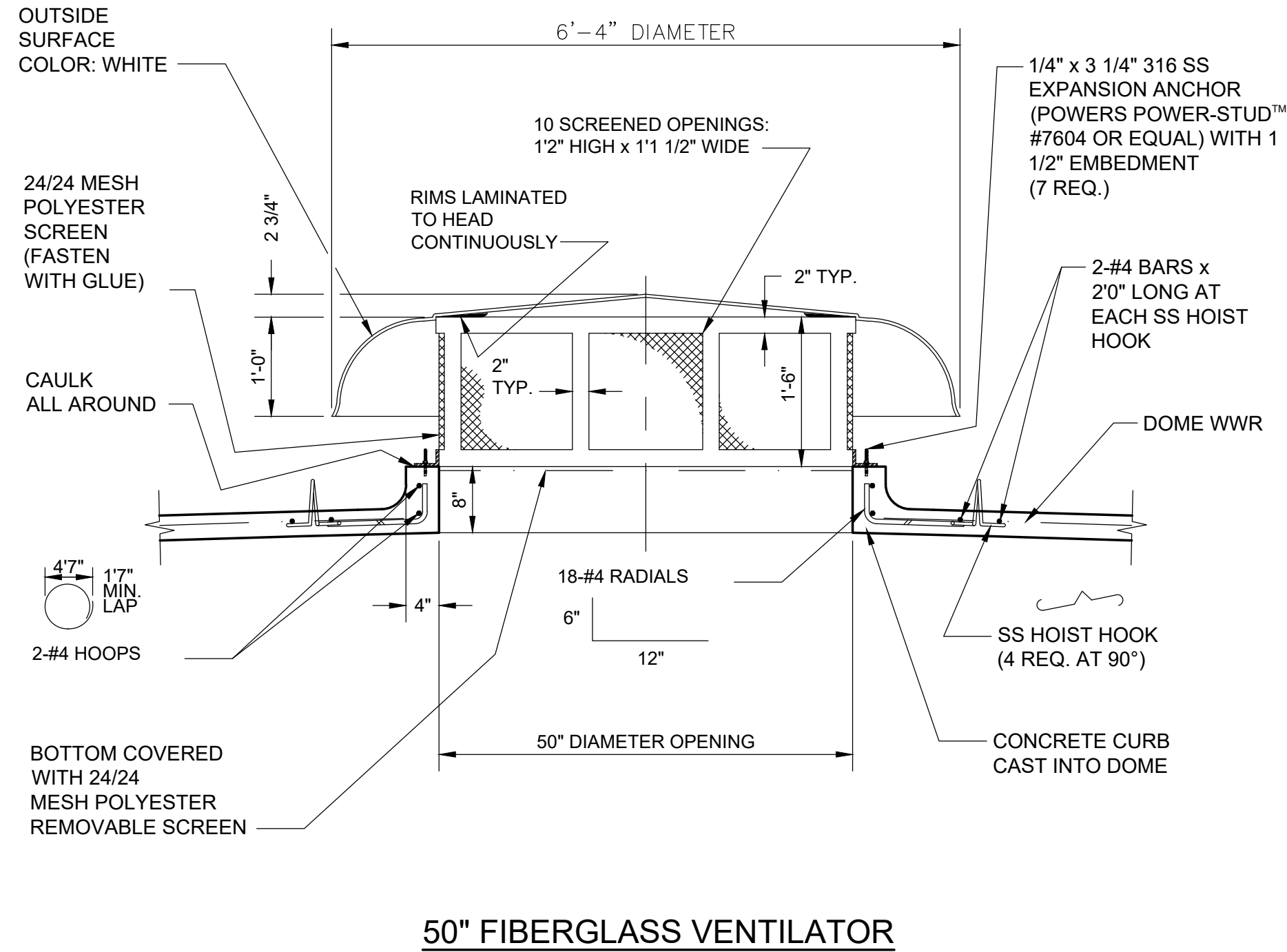
REVISIONS		DATE	BY	APPD
NO.	DESCRIPTIONS			

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
EFFLUENT STORAGE TANK
DETAILS (1 OF 3)

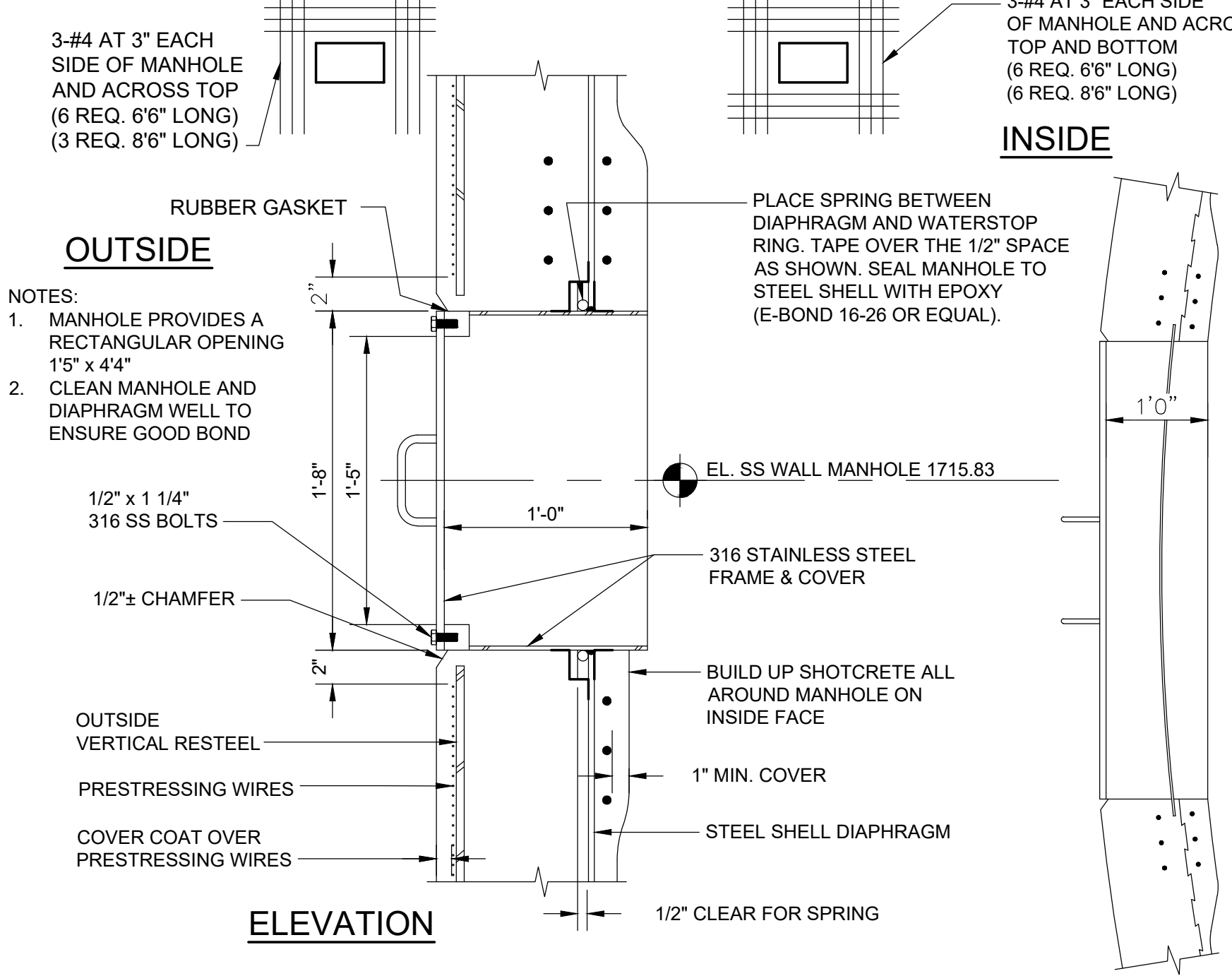
JOB NO. N16003
 ISSUE DATE July, 2018
 SCALE AS NOTED
 DRAWING NO. M-1102

DATE OF PRINT: 10/17/2018 12:26 PM
 CTTI PROJECT: N16003-01 (TN Dept. General Services TDEC) Bledsoe County Correctional Complex, DRAWING: CT1 - M-1103 EFFLUENT STORAGE TANK DETAILS (2 OF 3) (558515v11/10/18 12:23PM), LAYOUT: 2.0 INDEX



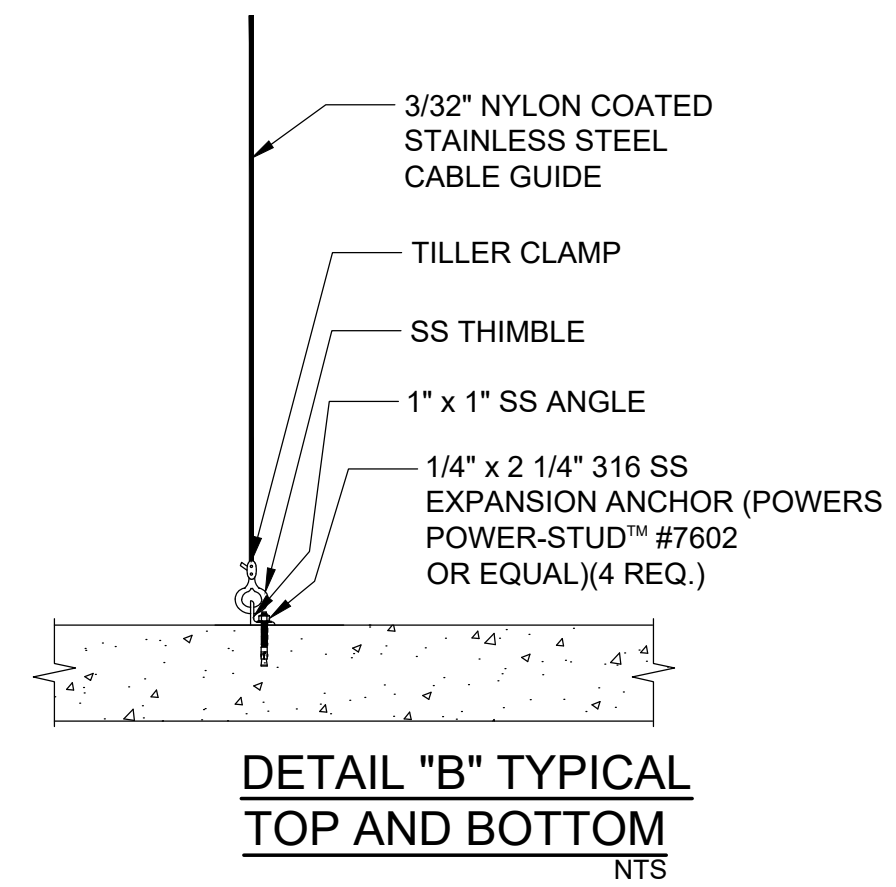
50" FIBERGLASS VENTILATOR
NTS

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

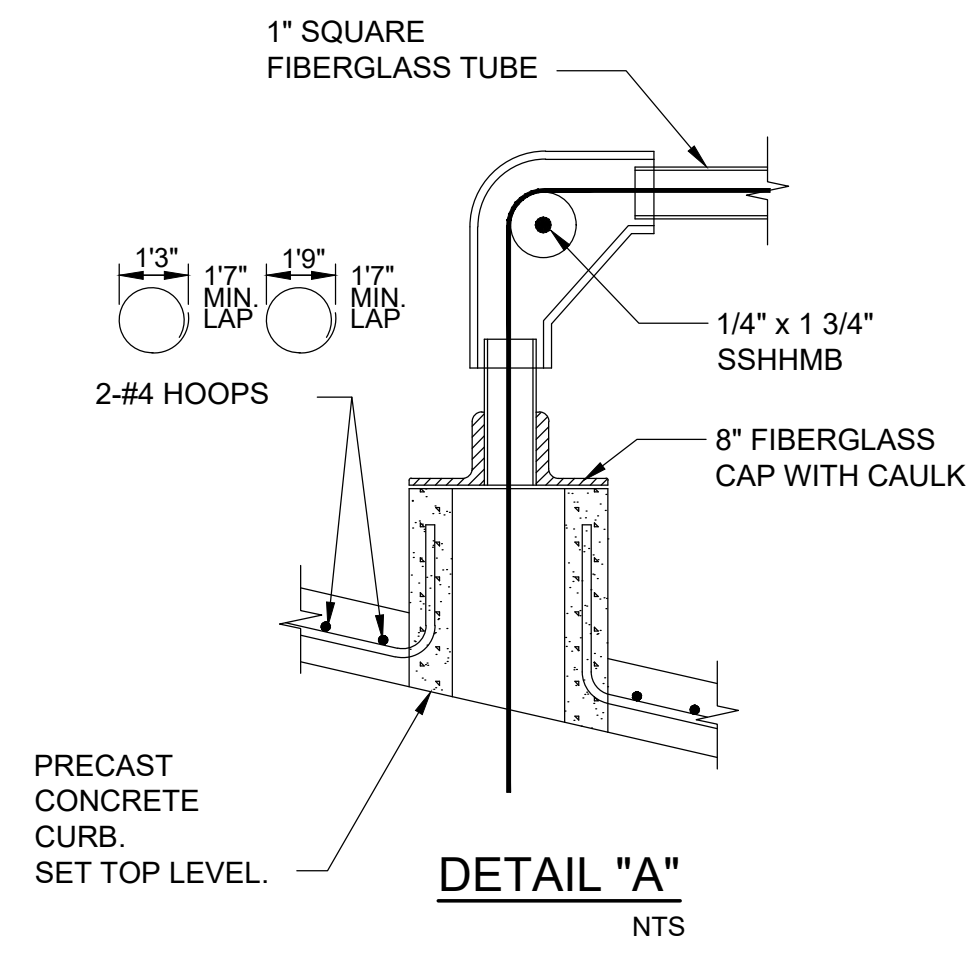


STAINLESS STEEL WALL MANHOLE
NTS

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

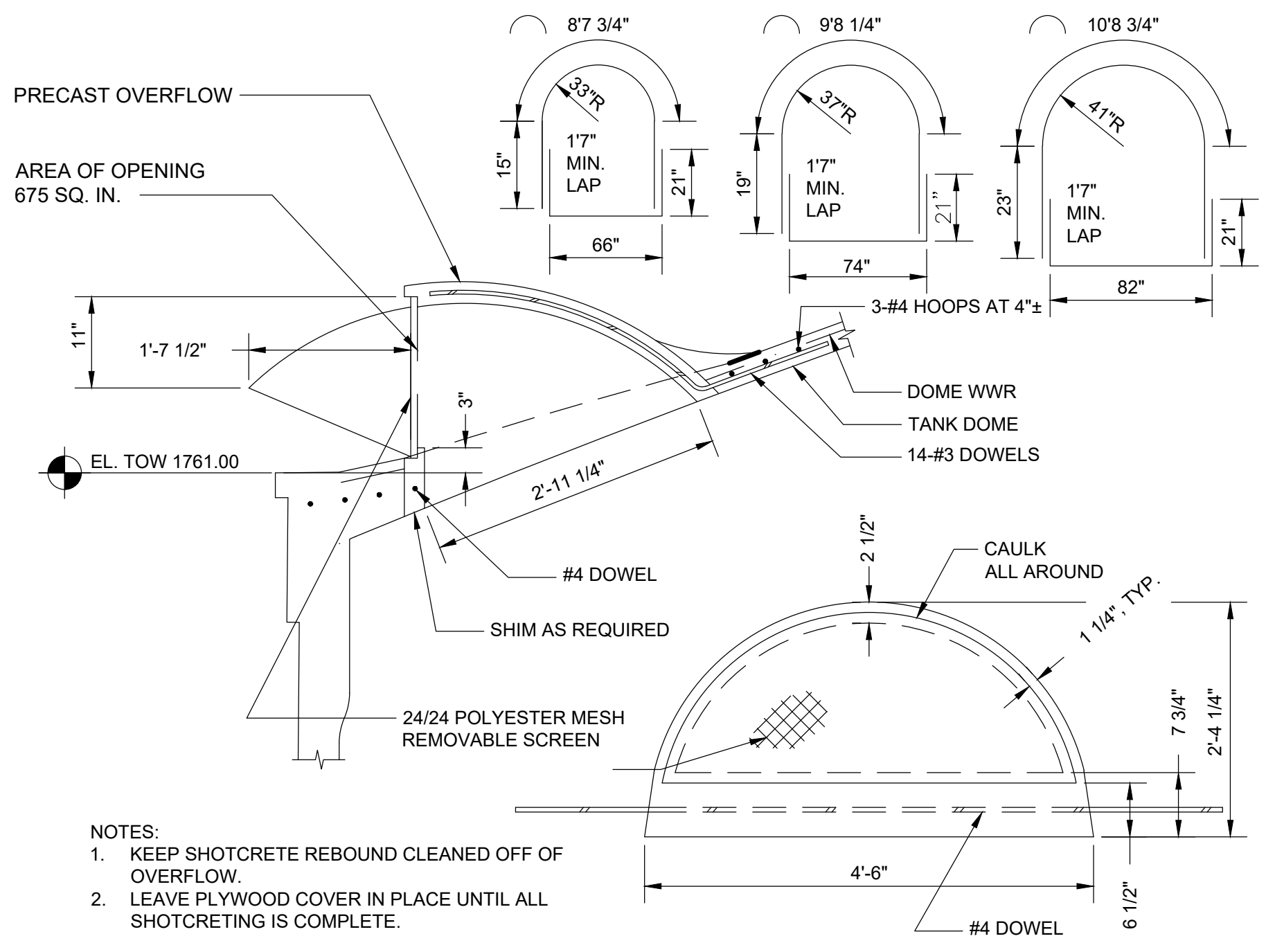


DETAIL "B" TYPICAL TOP AND BOTTOM
NTS

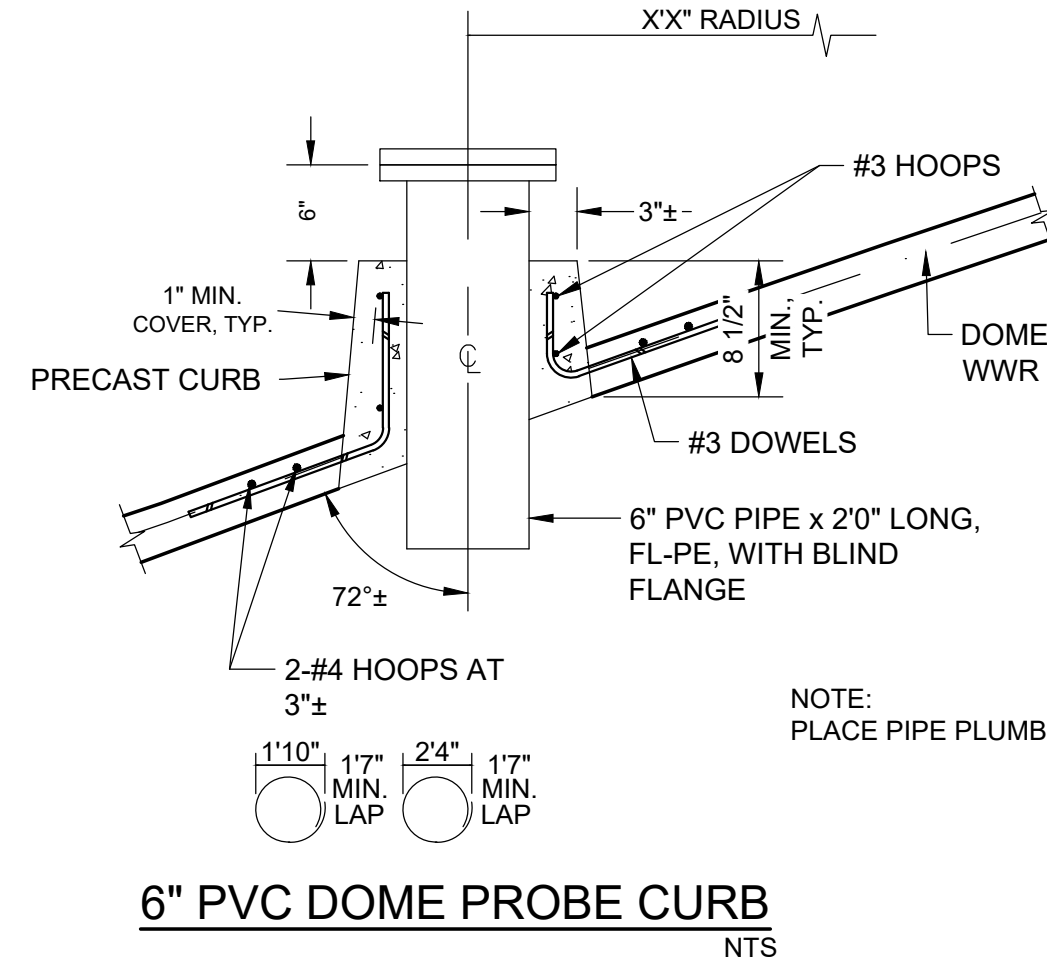


DETAIL "A"
NTS

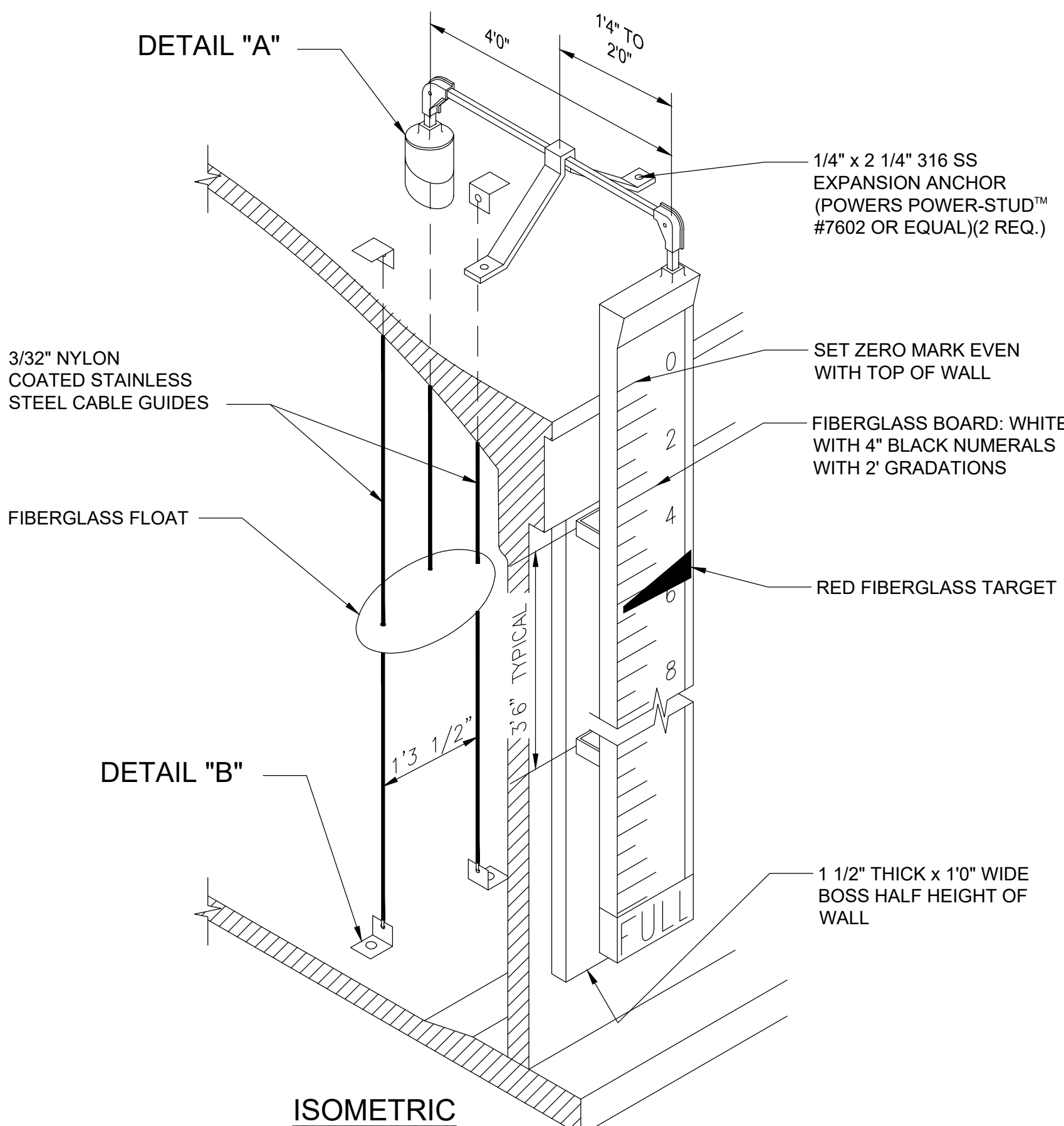
PRECAST CONCRETE CURB. SET TOP LEVEL.



#675 PRECAST CONCRETE OVERFLOW WITH FIBERGLASS EYELID (X REQ.)
NTS



6" PVC DOME PROBE CURB
NTS



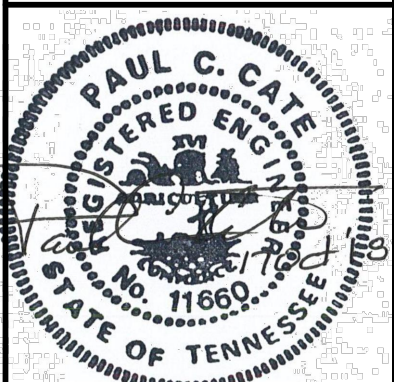
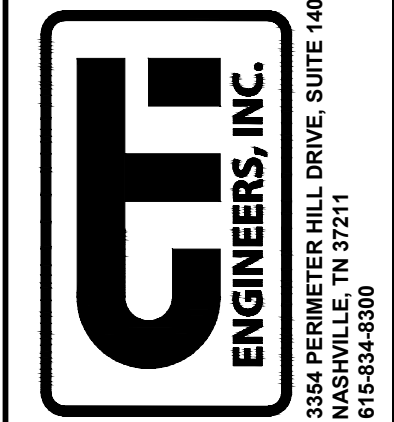
ISOMETRIC

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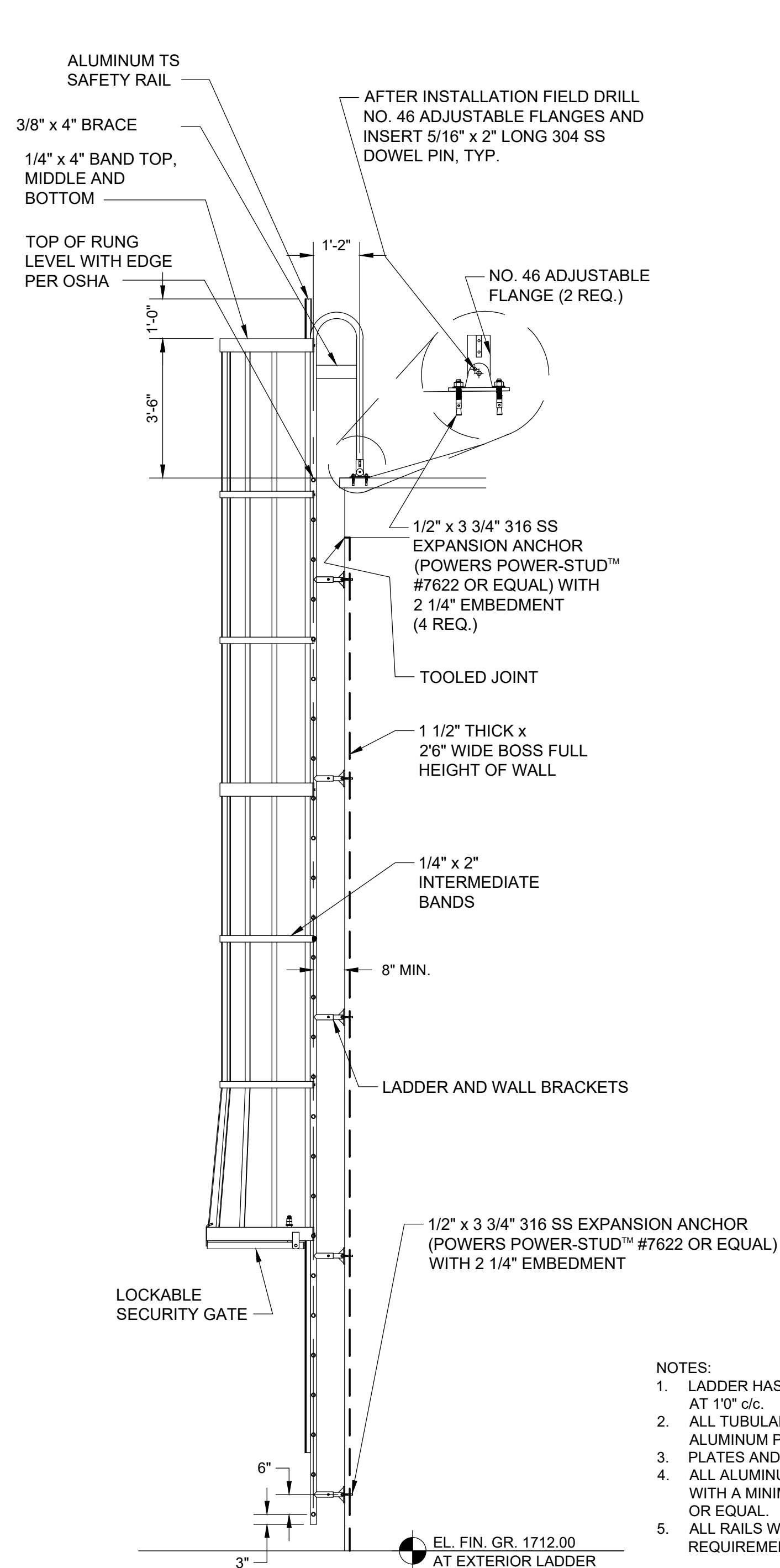
REVISIONS		DATE	BY	APPD
NO.	DESCRIPTIONS			

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
EFFLUENT STORAGE TANK
 DETAILS (2 OF 3)

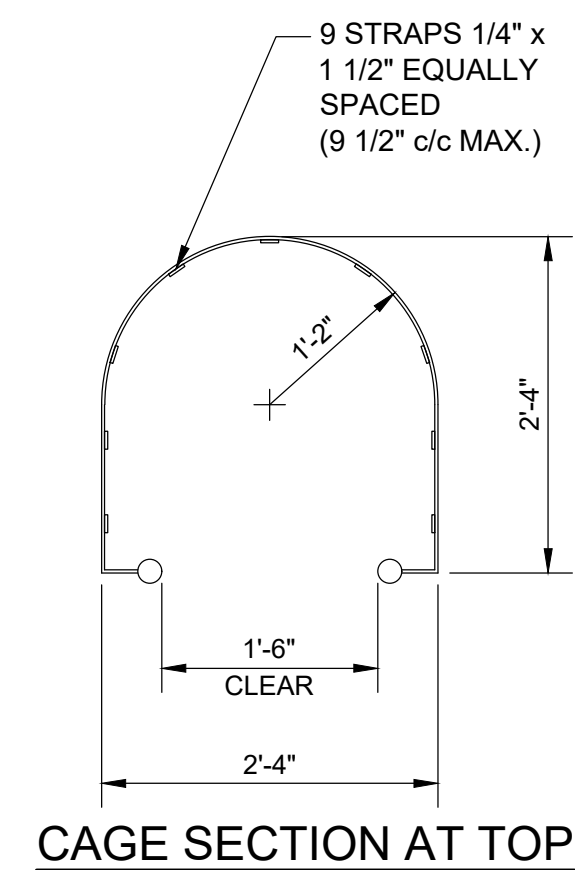


JOB NO.	N16003
ISSUE DATE	July, 2018
SCALE	AS NOTED
DRAWING NO.	M-1103



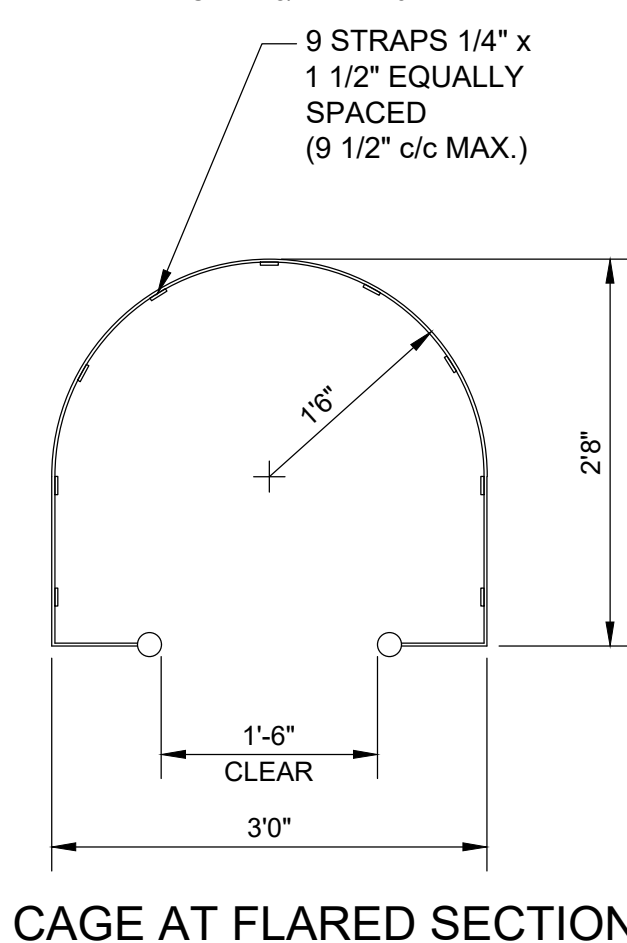
EXTERIOR ALUMINUM LADDER WITH TS SAFETY RAIL, SAFETY CAGE AND LOCKABLE SECURITY GATE
NTS

- 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 SERIES 46-465 H.B. TNMECOL OR EQUAL.
 - ALL RAILS WHEN PROPERLY INSTALLED SHALL MEET OR EXCEED OSHA REQUIREMENTS.



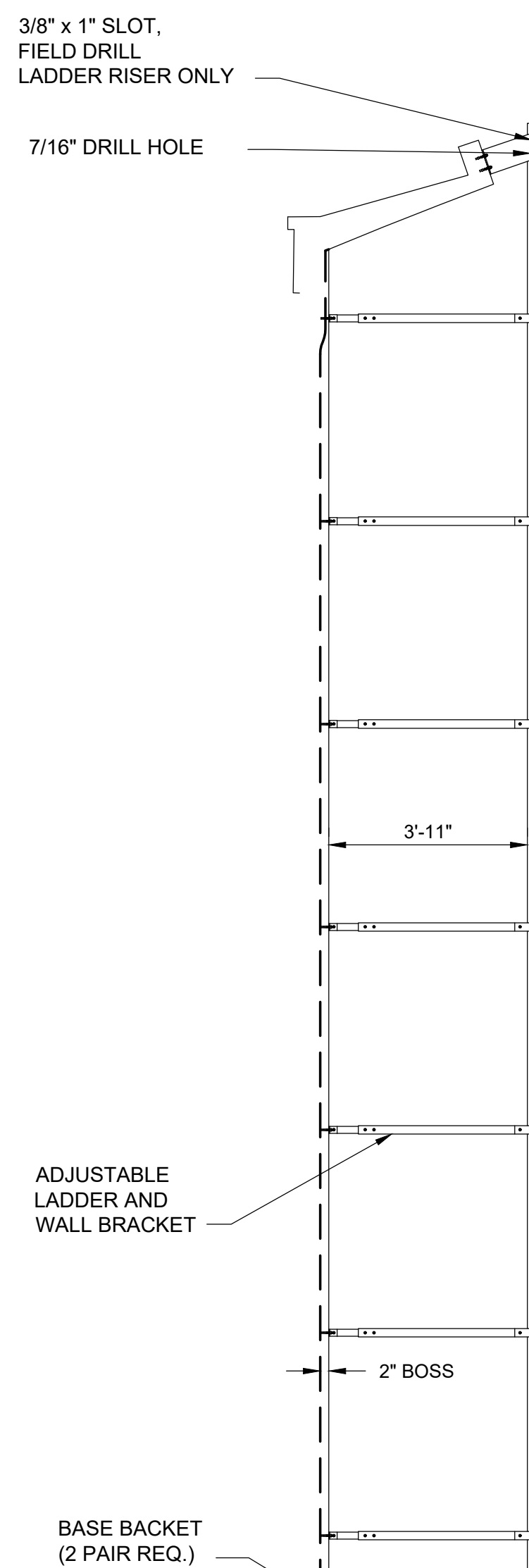
CAGE SECTION AT TOP

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

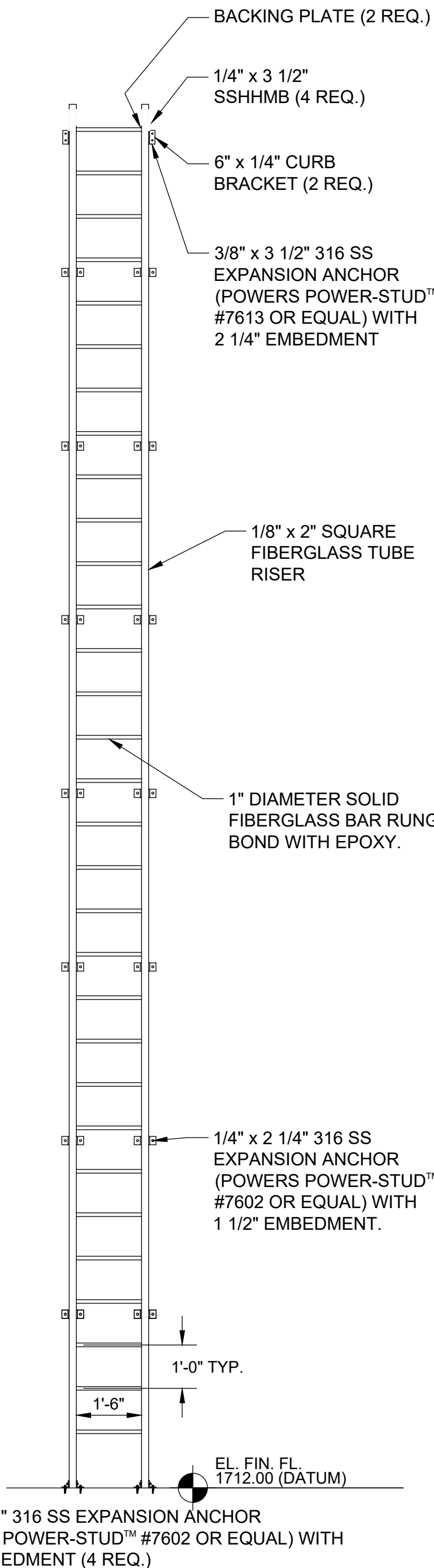


CAGE AT FLARED SECTION

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



SIDE VIEW



FRONT VIEW

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

INTERIOR FIBERGLASS LADDER WITH TS SAFETY RAIL
NTS

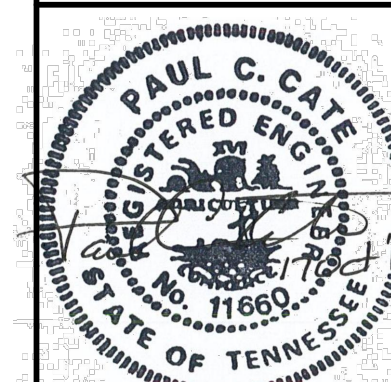
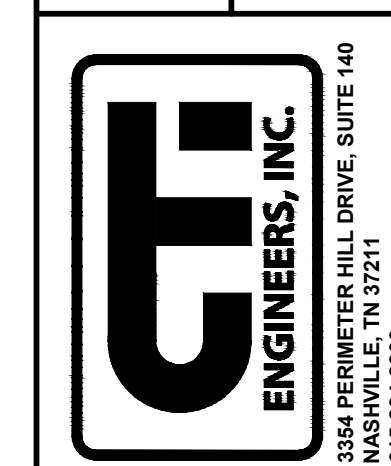
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REVISIONS		DATE	BY	APPD
NO.	DESCRIPTIONS			

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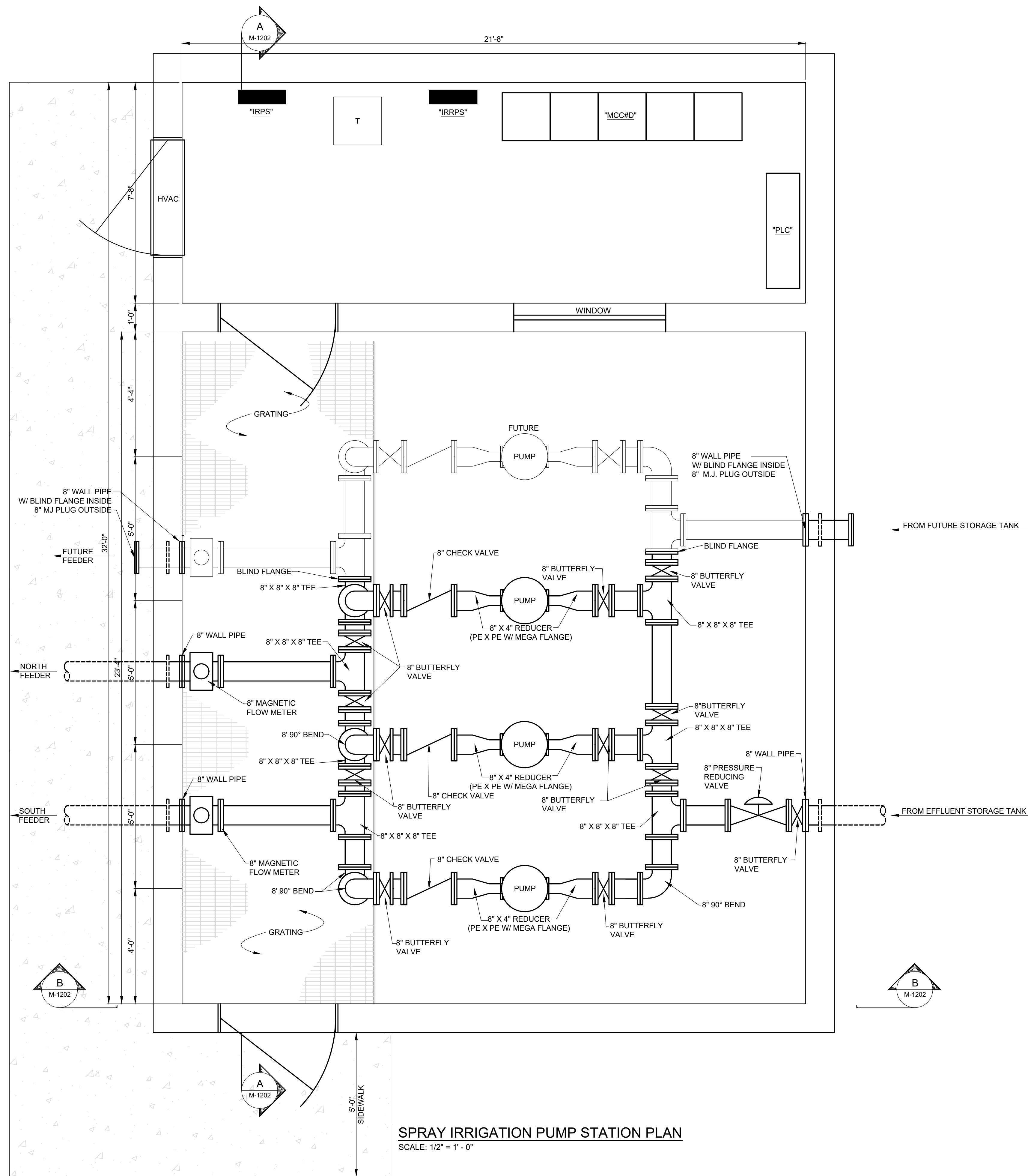
WASTEWATER TREATMENT PLANT EXPANSION
BLEDSOE COUNTY CORRECTIONAL COMPLEX
PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

EFFLUENT STORAGE TANK
DETAILS (3 OF 3)

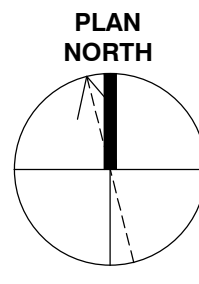


JOB NO.	N16003
ISSUE DATE	July, 2018
SCALE	1" = 50' - 0"
DRAWING NO.	M-1104

DATE OF PRINT: 10/17/2018 12:27 PM
 CTI PROJECT: N16003-01 (TN Dept. General Services TDEC) Bledsoe County Correctional Complex DRAWING: CTI - M-1201 SPRAY IRRIGATION PUMP STATION PLAN (6/17/2018 7:30AM) LAYOUT: PROPOSED INFLUENT PS PLAN



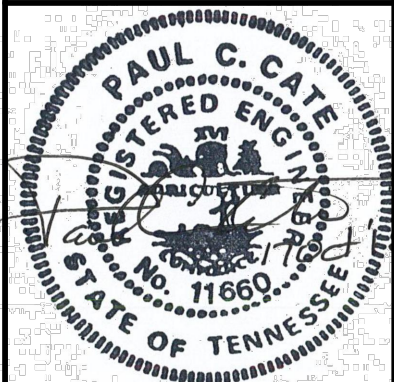
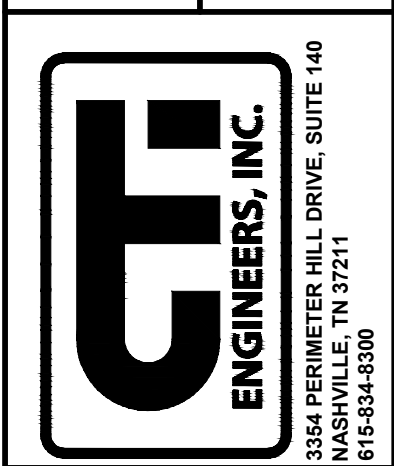
SPRAY IRRIGATION PUMP STATION PLAN
 SCALE: 1/2" = 1' - 0"



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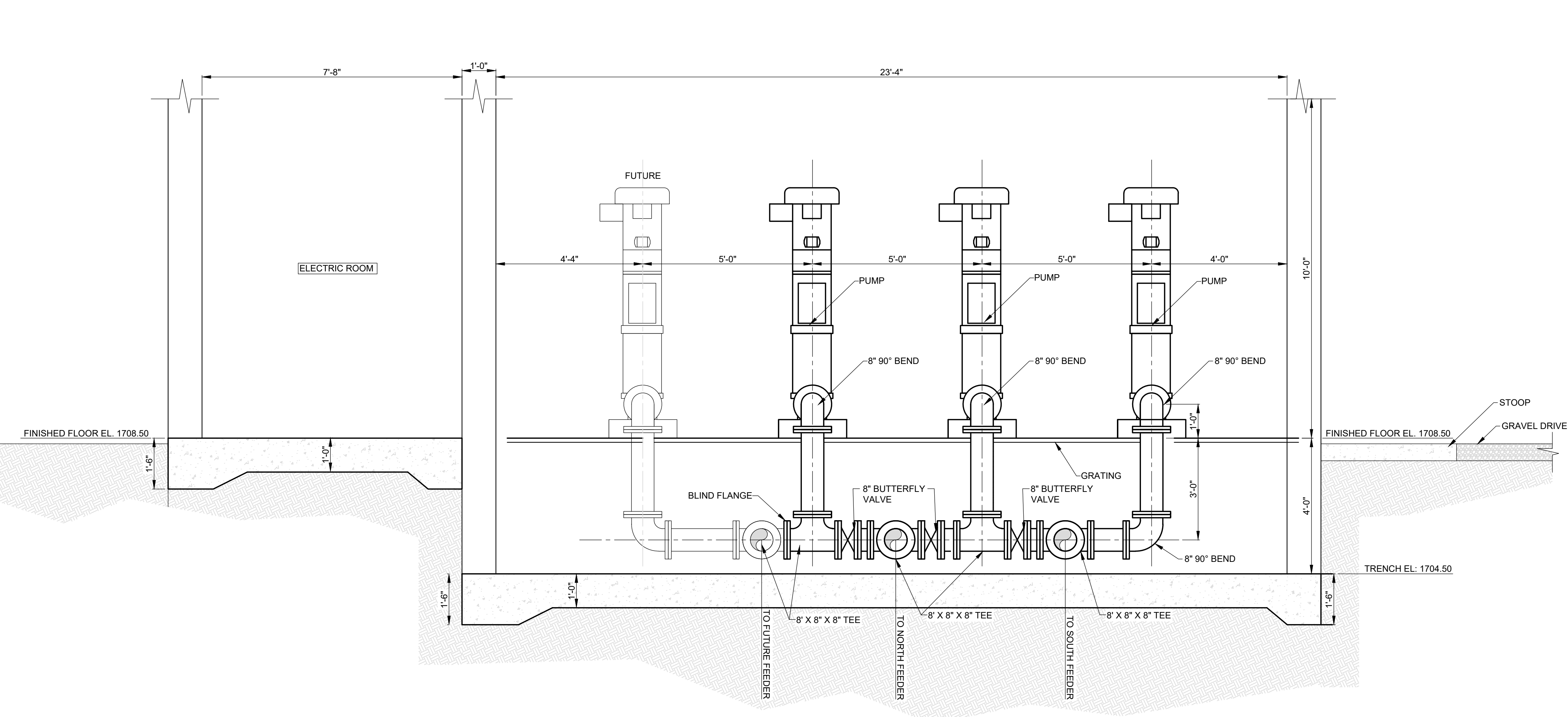
REVISIONS	DESIGN	DATE	BY	APPD
NO.	PCC			
DESCRIPTIONS	DRAWN			
	JRH			
	CHECKED			
	PCC			
	APPROVED			
	NH			

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

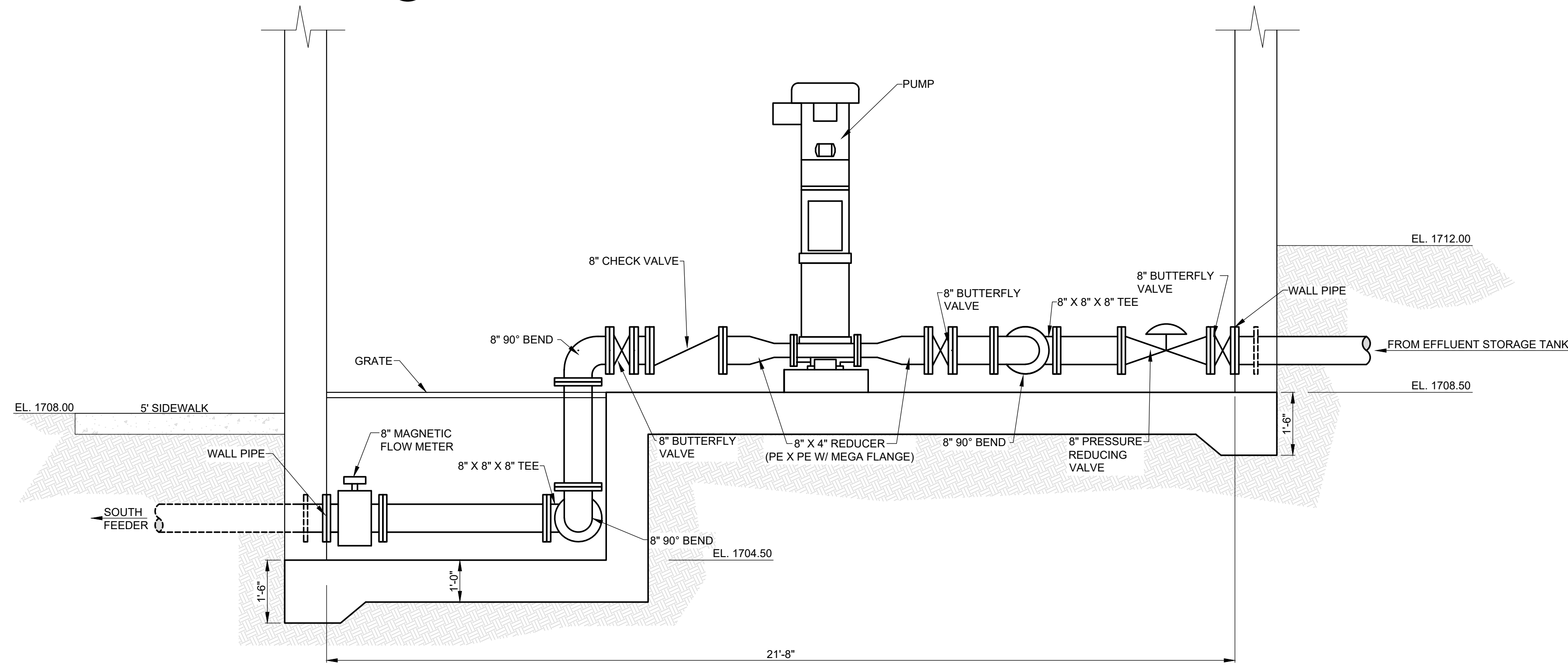


JOB NO.
 N16003
 ISSUE DATE
 July, 2018
 SCALE
 1/2" = 1' - 0"
 DRAWING NO.
 M-1201

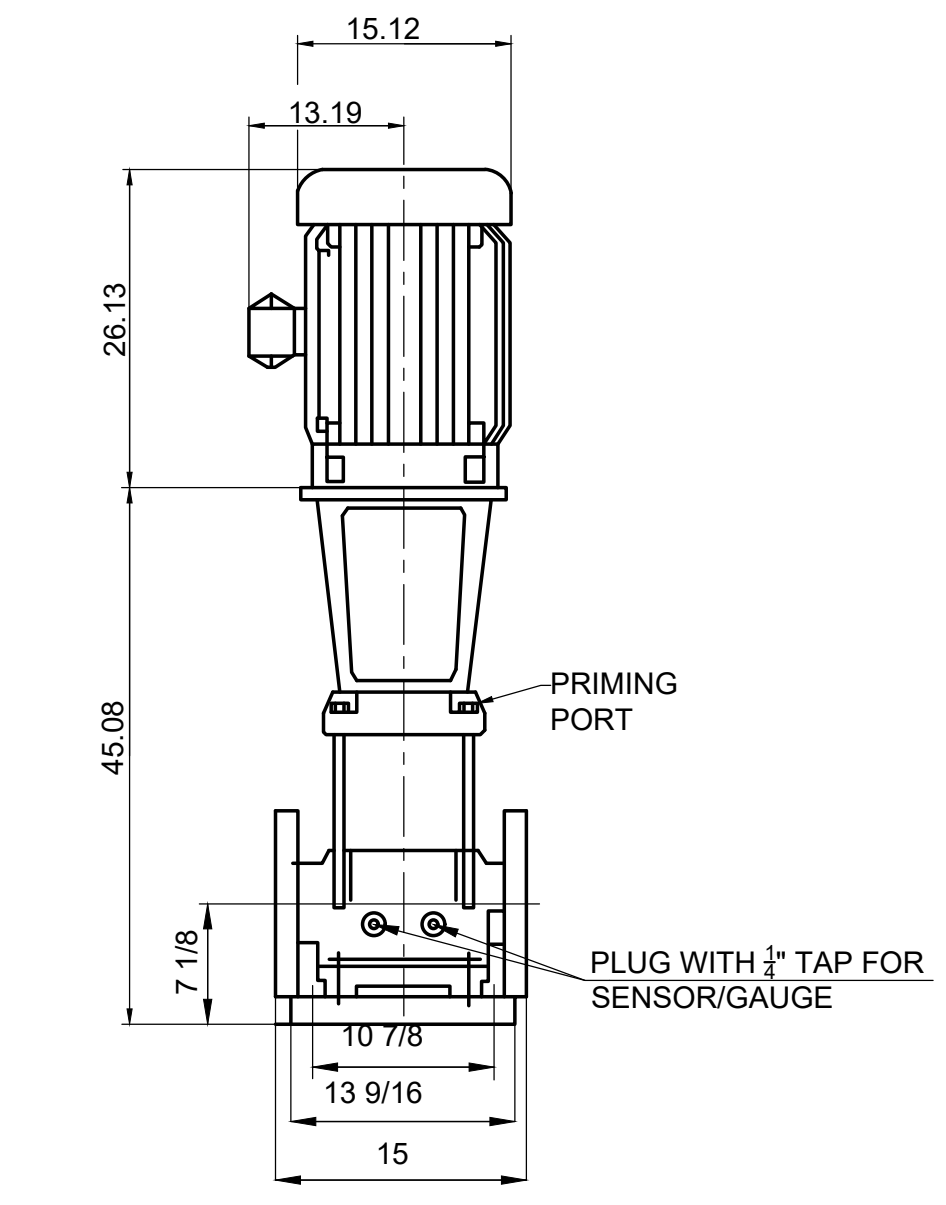
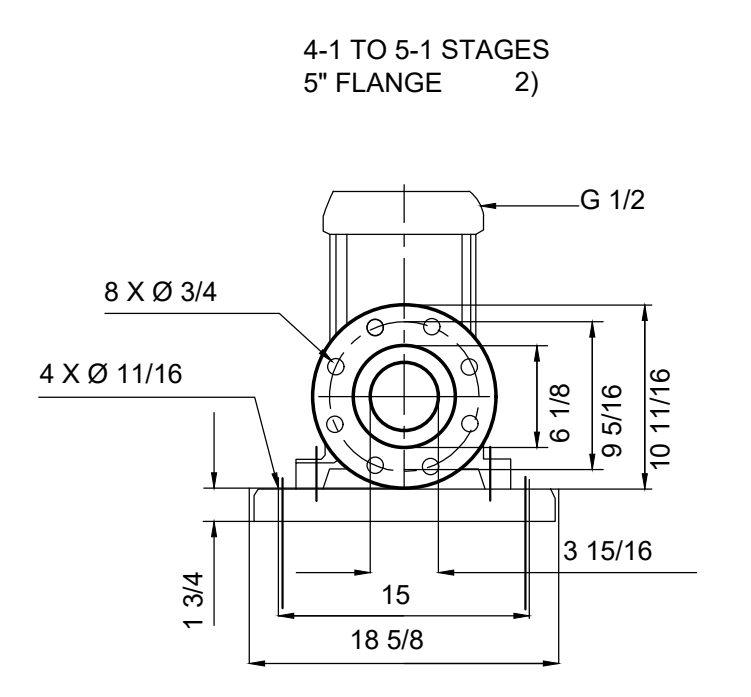
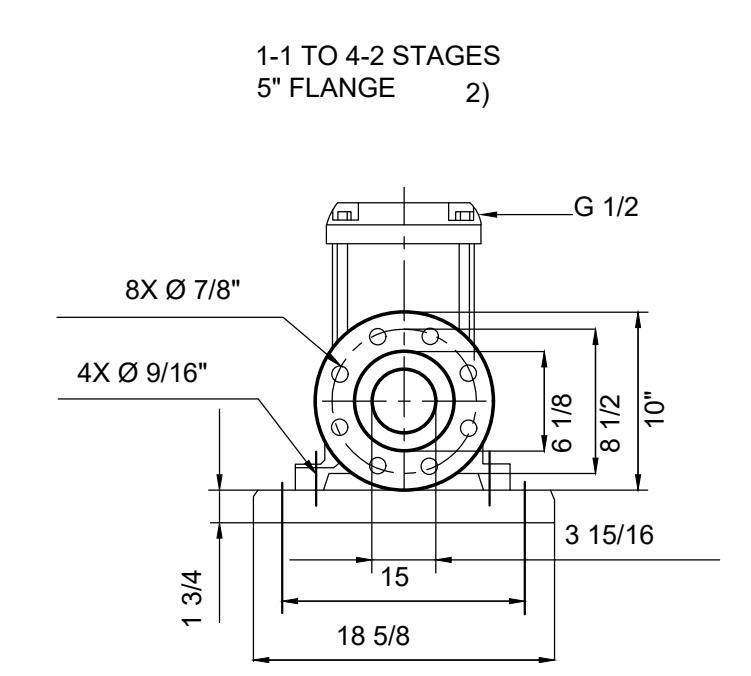
CTI PROJECT: N16003-01 (TN Dept. General Services TDEC) Bledsoe County Correctional Complex, DRAWING: CTI - M-1202 SPRAY IRRIGATION PUMP STATION SECTIONS (656392x17/10/12/18 7:36AM), LAYOUT: PROPOSED INFLUENT PS SECTION
 DATE OF PRINT: 10/17/2018 12:27 PM



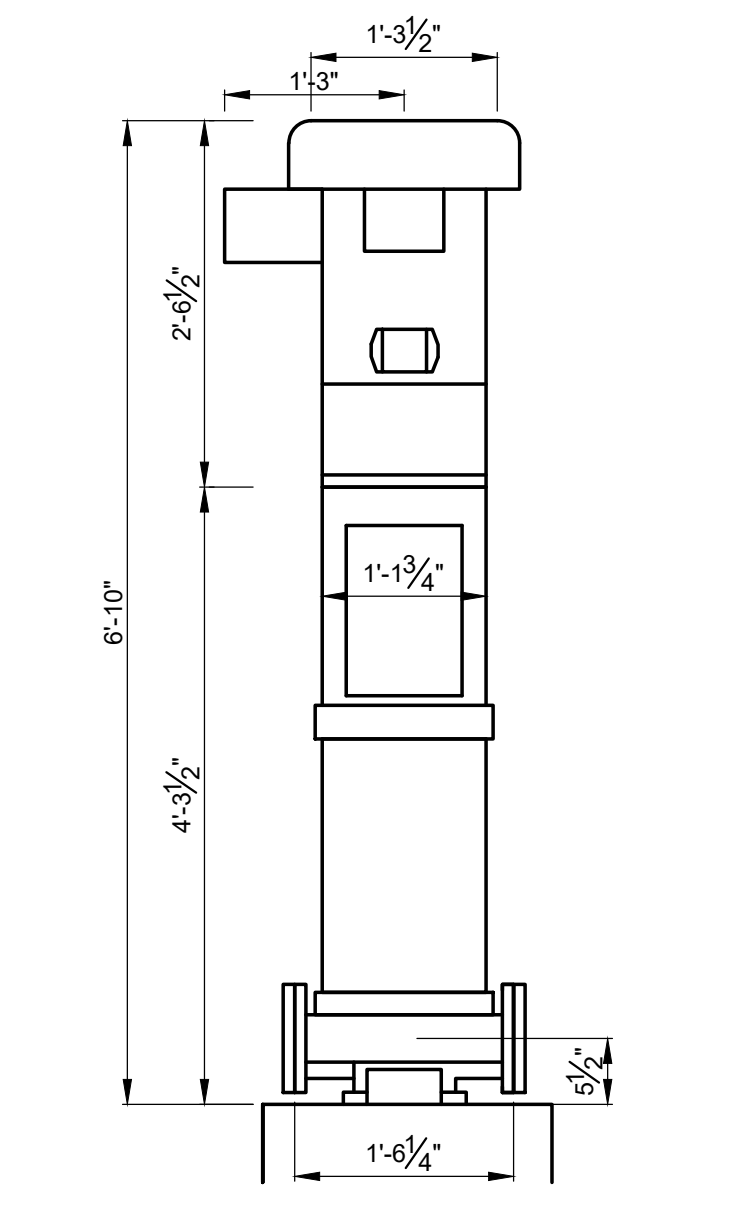
A SPRAY IRRIGATION PUMP STATION SECTION
 M-1201 SCALE: 1/2" = 1' - 0"



B SPRAY IRRIGATION PUMP STATION SECTION
 M-1201 SCALE: 1/2" = 1' - 0"



GRUNDFOS PUMP DETAIL
 NTS



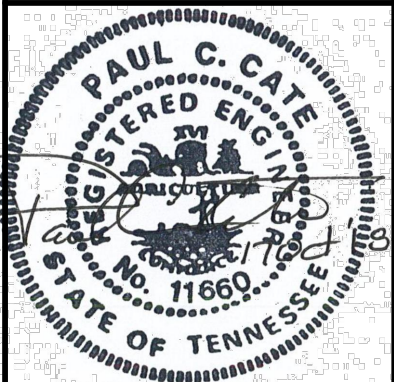
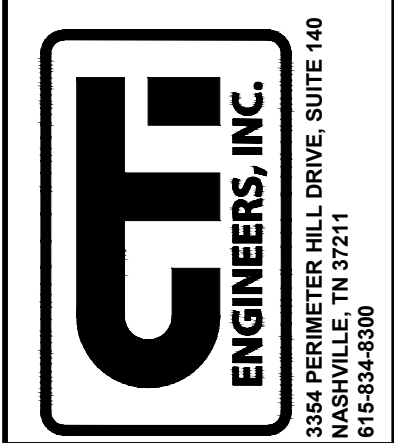
GOOLDS PUMP DETAIL
 NTS

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NO.	REVISIONS	DATE	BY	APPD

DESIGN	PCC	DRAWN	JRH	CHECKED	PCC	APPROVED	NH

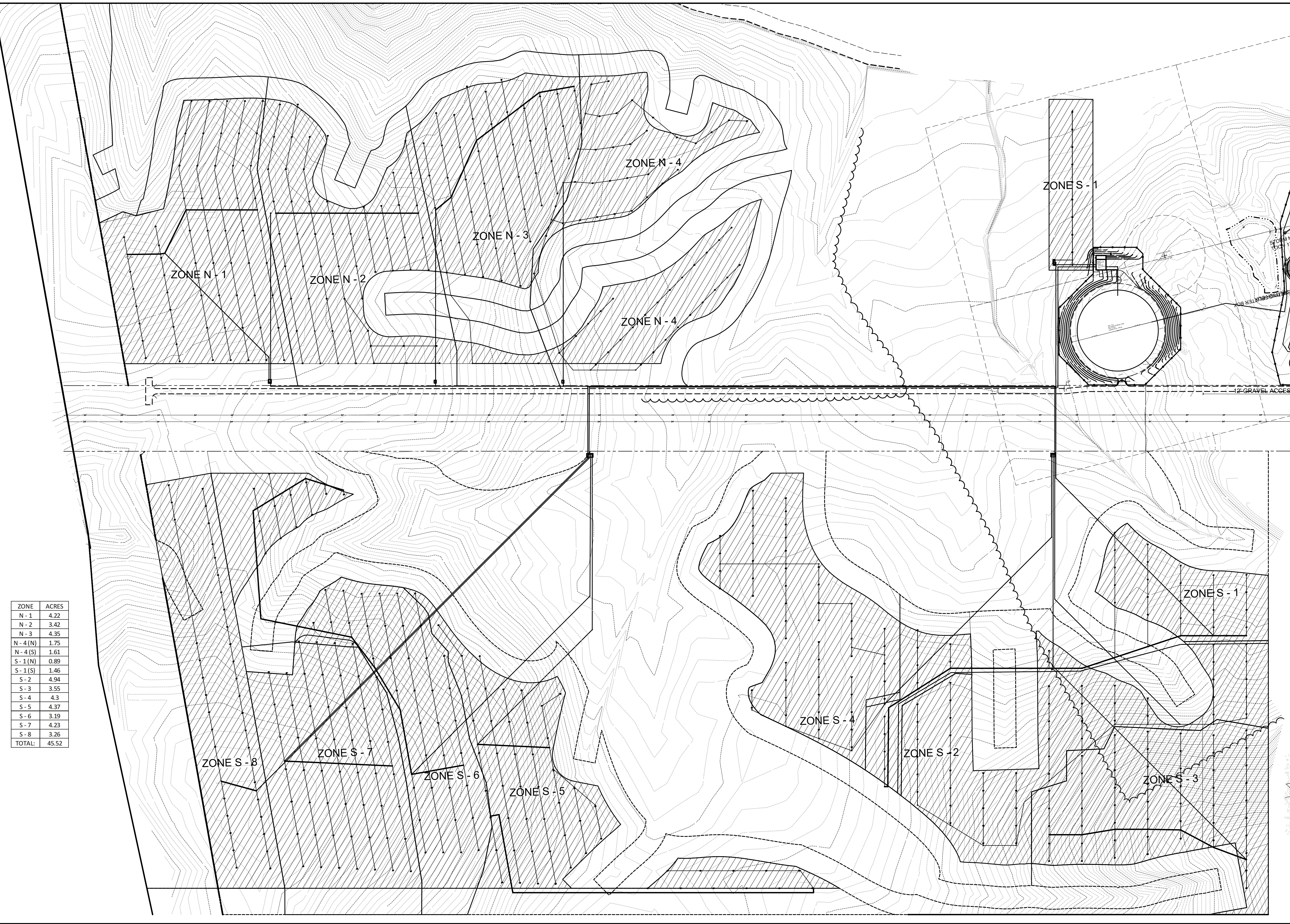
WASTEWATER TREATMENT PLANT EXPANSION
BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06
SPRAY IRRIGATION PUMP STATION SECTIONS



JOB NO.	N16003
ISSUE DATE	July, 2018
SCALE	1/2" = 1' - 0"
DRAWING NO.	M-1202

DATE OF PRINT: 10/17/2018 1:54 PM C:\PROJECT\N16003-01 (TN Dept. General Services TDEC) Bledsoe County Correctional Complex, DRAWING: C11 - M-1301 SPRAY FIELD INDEX (5654387/10/17/18 12:33PM), LAYOUT: NORTH GRID A

ZONE	ACRES
N - 1	4.22
N - 2	3.42
N - 3	4.35
N - 4 (N)	1.75
N - 4 (S)	1.61
S - 1 (N)	0.89
S - 1 (S)	1.46
S - 2	4.94
S - 3	3.55
S - 4	4.3
S - 5	4.37
S - 6	3.19
S - 7	4.23
S - 8	3.26
TOTAL:	45.52



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

ENGINEERS, INC.
3354 PERMETER HILL DRIVE, SUITE 140
NASHVILLE, TN 37211
615-834-3500

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

JOB NO.
N16003

ISSUE DATE
July, 2018

SCALE
1" = 100' - 0"

DRAWING NO.
M-1301

DESIGN	PCC	DATE	BY	APPD
DRAWN	JRH			
CHECKED	NH			
APPROVED	PCC			

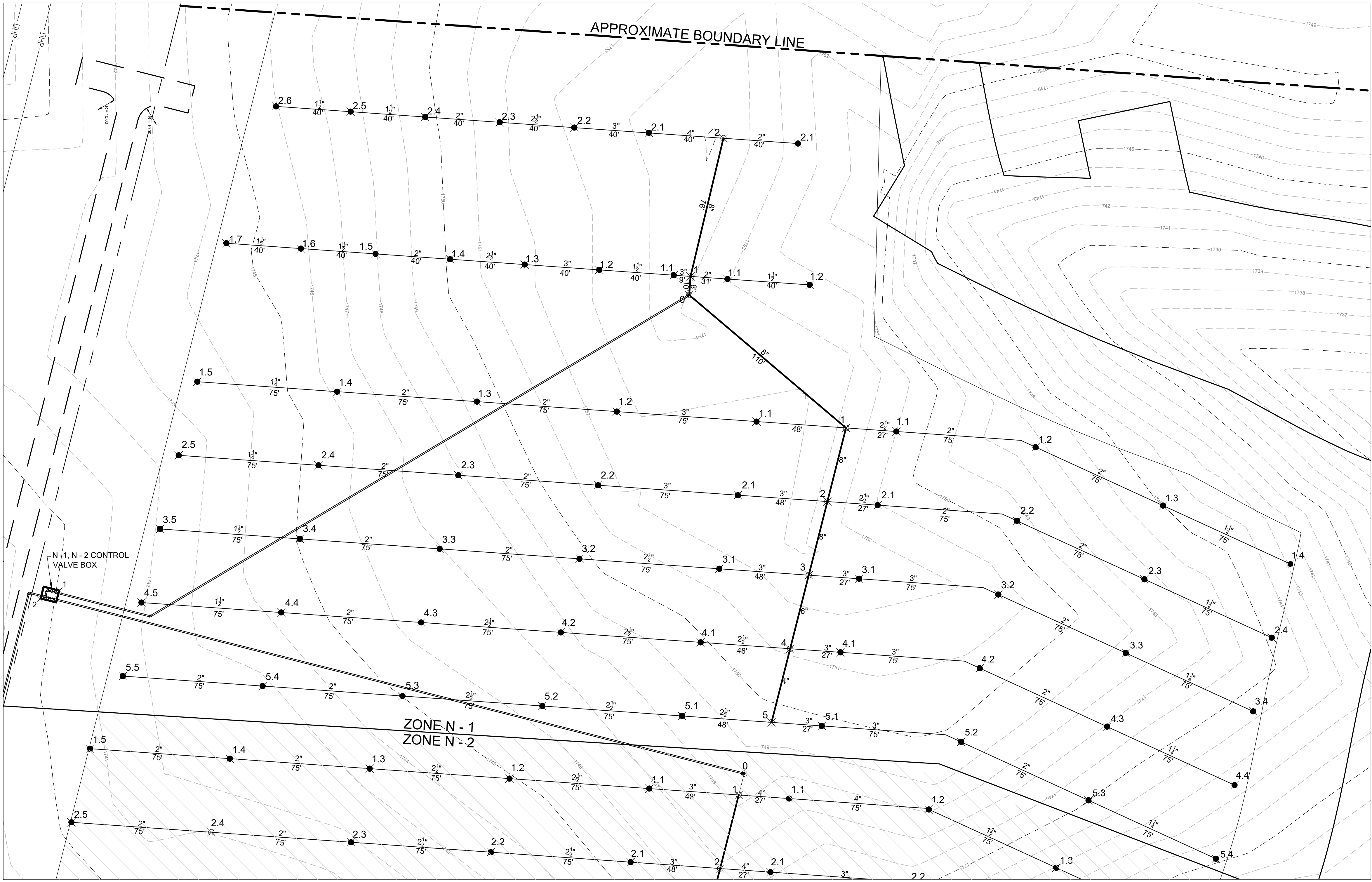
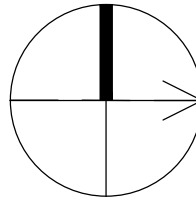
REVISIONS

NO.	DESCRIPTIONS

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SPRAY FIELD - INDEX

PLAN NORTH



ZONE N - 1
SCALE: 1" = 30' - 0"

NODE SUMMARY		Head	Coordinates		Fittings at Node				
Area	Line	Node	Yes/No	North	West	Inlet Reducer	Cross In	Tea In	Outlet Reducer
North 1 Zone									
East Header									
	0	N						8	
	1	N		511827.96	2187889.00		8		
	2	N		511818.00	2187928.40		8		
	3	N		511808.04	2187967.79		8		8x6
	4	N		511798.08	2188007.18	6x4	4		
	5	N		511788.12	2188046.57	4x3	3		
E-N-1									
	1	N		511827.96	2187889.00				8x2
	1.1	Y		511854.89	2187906.92				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				8x2.5
	2.1	Y		511844.93	2187930.32				2.5
	2.2	Y		511919.45	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				8x3
	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				4x3
	4.1	Y		511825.01	2188009.10				3
	4.2	Y		511899.52	2188017.60				3x2
	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				3x2
	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							8x3
	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				8x3
	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				8x3
	3.1	Y		511780.16	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				2x1.5
	3.5	Y		511460.92	2187943.04	1.5x0.75			0.75
E-S-4									
	4	N		511798.08	2188007.18				4x3
	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	2188021.82	2x1			1
West Header									
	0	N		511744.06	2187817.86				
	1	N		511744.77	2187807.88				
	2	Y		511762.36	2187733.95				
W-N-1									
	1	N		511744.77	2187807.88				8x2
	1.1	Y		511764.50	2187809.29				2x1.5
	1.2	Y		511808.54	2187812.43				1.5
W-N-2									
	2	N		511762.36	2187733.95				8x2
	2.1	Y		511802.16	2187736.79	2x1.25			1.25
W-S-1									
	1	N		511744.77	2187807.88				8x3
	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				8x4
	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

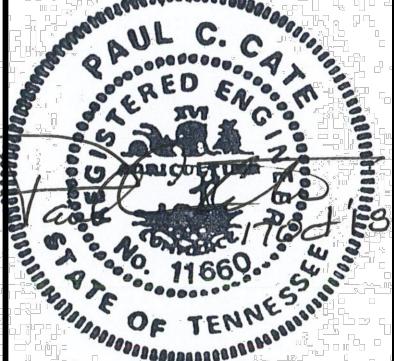
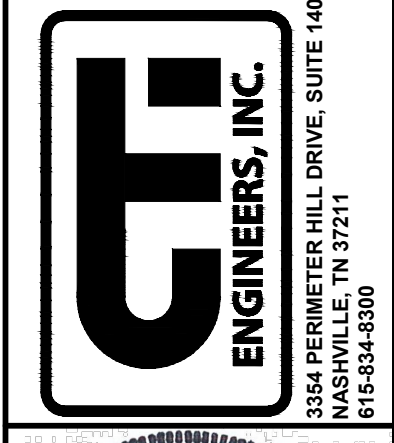
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APPD	DATE	BY

NO.	DESIGN	PC

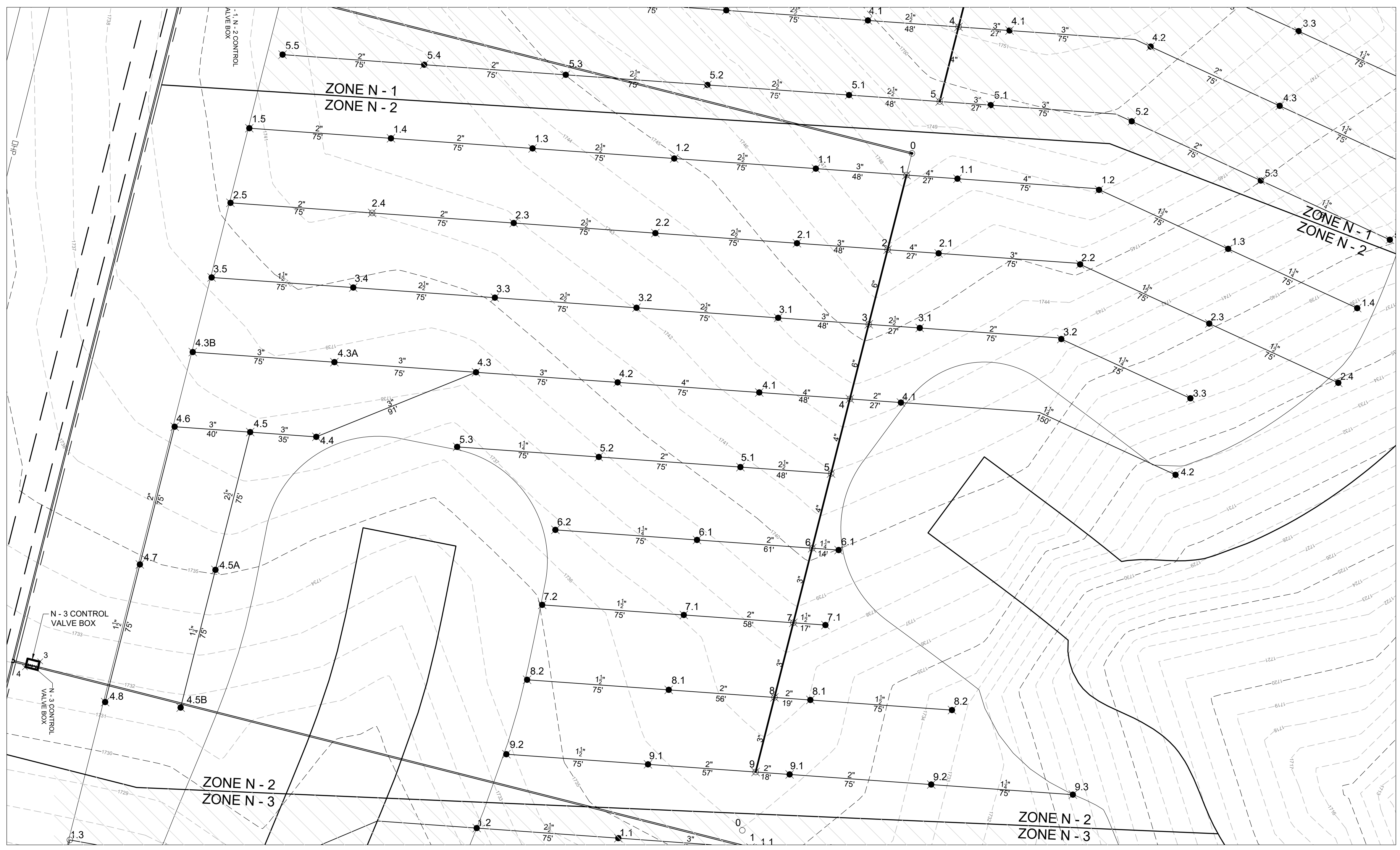
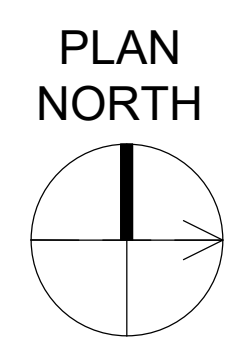
NO.	DRAWN	CHECKED	APPROVED

WASTEWATER TREATMENT PLANT EXPANSION
BLEDSOE COUNTY CORRECTIONAL COMPLEX
PIKEVILLE, BLEDSON COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06
SPRAY FIELD - ZONE N - 1



JOB NO. N16003
ISSUE DATE July, 2018
SCALE AS NOTED
DRAWING NO. M-1302

CTI PROJECT: N16003-01 (TN Dept. General Services IDEC) Bledsoe County Correctional Complex, DRAWING: CTI - M-1303 SPRAY FIELD ZONE N-2 (6/6/2018 9:24:18 9:54AM) LAYOUT: ZONE N-2
 DATE OF PRINT: 10/17/2018 12:36 PM



ZONE N - 2
 SCALE: 1" = 30' - 0"

Area		Line	Node	Head Yes/No	Coordinates North	Coordinates West	Inlet Reducer in	Fittings At Node Cross in	Outlet Reducer in	Outlet x in
North 2 Zone Header										
	1	N	2188085.42	511770.57	-	8	-	8x6		
	2	N	2188124.81	511760.61	-	6	-	-		
	3	N	2188164.20	511750.65	-	6	-	-		
	4	N	2188203.60	511740.69	6x4	4	-	-		
	5	N	2188242.99	511730.73	-	4	-	-		
	6	N	2188282.38	511720.76	4x3	3	-	-		
	7	N	2188321.77	511710.80	-	3	-	-		
	8	N	2188361.16	511700.84	-	3	-	-		
	9	N	2188400.55	511690.88	-	3	-	-		
N-1										
	1.1	Y	2188087.34	511797.50	-	-	-	4		
	1.2	Y	2188093.22	511872.27	4x3	-	-	3x1.5		
	1.3	Y	2188124.40	511940.48	-	-	-	1.5x1.25		
	1.4	Y	2188155.66	512008.65	-	-	-	1.25		
N-2										
	2	N	2188124.81	511760.61	-	-	-	6x3		
	2.1	Y	2188126.73	511875.54	-	-	-	3		
	2.2	Y	2188132.55	511862.31	3x2	-	-	2x1.5		
	2.3	Y	2188163.82	511930.48	-	-	-	1.5		
	2.4	Y	2188195.08	511998.66	1.5x0.75	-	-	0.75		
N-3										
	3	N	2188164.20	511750.65	-	-	-	6x2.5		
	3.1	Y	2188166.12	511777.58	2.5x2	-	-	2		
	3.2	Y	2188171.99	511852.35	2x1.5	-	-	1.5x1.25		
	3.3	Y	2188203.25	511920.52	1.25x0.75	-	-	0.75		
N-4										
	4	N	2188203.60	511740.69	-	-	-	4x2		
	4.1	Y	2188205.52	511767.62	2x1.25	-	-	1.25		
	4.2	Y	2188243.67	511812.68	1.25x1	-	-	1		
N-6										
	6	N	2188282.38	511720.76	-	-	-	3x1.5		
	6.1	Y	2188283.37	511734.73	-	-	-	1.5		
N-7										
	7	N	2188321.77	511710.80	-	-	-	3x1.5		
	7.1	Y	2188322.98	511727.76	-	-	-	1.5		
N-8										
	8	N	2188361.16	511700.84	-	-	-	3x2		
	8.1	Y	2188362.51	511719.80	2x1.5	-	-	1.5		
	8.2	Y	2188367.85	511794.61	1.5x0.75	-	-	0.75		
N-9										
	9	N	2188400.55	511700.84	-	-	-	2.5x2		
	9.1	Y	2188401.83	511708.84	-	-	-	2		
	9.2	Y	2188407.17	511783.65	2x1.25	-	-	1.25		
	9.3	Y	2188412.50	511858.46	1.25x1	-	-	1		
S-1										
	1	N	2188085.42	511770.57	-	-	-	8x3		
	1.1	Y	2188082.01	511722.89	3x2.5	-	-	2.5		
	1.2	Y	2188076.67	511647.88	-	-	-	2.5		
	1.3	Y	2188071.34	511573.07	-	-	-	2.5x2		
	1.4	Y	2188066.01	511498.26	-	-	-	2		
	1.5	Y	2188060.67	511423.45	2x1	-	-	1		
S-2										
	2	N	2188124.81	511760.61	-	-	-	6x3		
	2.1	Y	2188121.40	511712.73	-	-	-	3x2.5		
	2.2	Y	2188116.07	511637.92	-	-	-	2.5		
	2.3	Y	2188110.73	511563.11	2.5x2	-	-	2		
	2.4	Y	2188105.40	511488.30	-	-	-	2		
	2.5	Y	2188100.06	511413.49	2x1.5	-	-	1.5		
S-3										
	3	N	2188164.20	511750.65	-	-	-	6x3		
	3.1	Y	2188160.79	511702.77	3x2.5	-	-	2.5		
	3.2	Y	2188155.46	511627.96	-	-	-	2.5		
	3.3	Y	2188150.12	511553.15	-	-	-	2.5		
	3.4	Y	2188144.79	511478.34	2.5x2	-	-	2		
	3.5	Y	2188139.46	511403.53	2x1	-	-	1		
S-4										
	4	N	2188203.60	511740.69	-	-	-	-		
	4.1	Y	2188200.18	511692.81	-	-	-	4		
	4.2	Y	2188194.85	511618.00	4x3	-	-	3		
	4.3	Y	2188189.51	511543.19	-	-	-	3		
	4.4	Y	2188223.60	511458.81	-	-	-	3		
	4.5	Y	2188211.11	511423.90	-	-	-	3		
	4.6	Y	2188218.27	511384.00	-	-	-	3x2		
	4.7	Y	2188209.98	511365.63	2x1.5	-	-	1.5		
	4.8	Y	2188203.64	511347.28	1.5x0.75	-	-	0.75		
S-4.3										
	4.3.A	Y	2188184.18	511468.38	-	-	-	3		
	4.3.B	Y	2188178.85	511393.57	-	-	-	3		
S-4.5										
	4.5	N	2188221.11	511423.90	-	-	-	3x2		
	4.5.A	Y	2188293.83	511405.53	2x1.25	-	-	1.25		
	4.5.B	Y	2188366.54	511387.16	-	-	-	1.25		
S-5										
	5	N	2188242.99	511730.73	-	-	-	4x2.5		
	5.1	Y	2188239.57	511682.85	2.5x2	-	-	2		
	5.2	Y	2188234.24	511608.04	2x1.5	-	-	1.5		
	5.3	Y	2188228.91	511533.23	1.5x0.75	-	-	0.75		
S-6										
	6	N	2188282.38	511720.76	-	-	-	3x2		
	6.1	Y	2188278.04	511659.92	2x1.25	-	-	1.25		
	6.2	Y	2188272.71	511585.11	-	-	-	1.25		
S-7										
	7	N	2188321.77	511710.80	-	-	-	3x2		
	7.1	Y	2188317.64	511652.95	2x1.5	-	-	1.5		
	7.2	Y	2188312.31	511578.14	1.5x1	-	-	1		
S-8										
	8	N	2188361.16	511700.84	-	-	-	3x2		
	8.1	Y	2188356.50	511634.03	2x1.5	-	-	1.5		
	8.2	Y	2188351.17	511559.22	1.5x1	-	-	1		
S-9										
	9	N	2188400.55	511690.88	-	-	-	3x2		
	9.1	Y	2188396.50	511634.03	-	-	-	2x1.5		
	9.2	Y	2188391.17	511559.22	1.5x1	-	-	1		

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REVISIONS	NO.	DATE	DESCRIPTIONS

DESIGN	PCC	DRAWN	JRH	CHECKED	INH	APPROVED	PCC

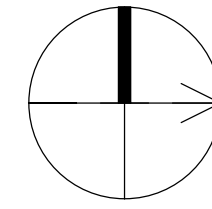
WASTEWATER TREATMENT PLANT EXPANSION
BLED SOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLED SOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06
ENGINEERS, INC.
 3354 PERMETER HILL DRIVE, SUITE 140
 NASHVILLE, TN 37211
 615-834-8500

JOB NO. N16003
 ISSUE DATE July, 2018
 SCALE AS NOTED
 DRAWING NO. M-1303



ZONE N - 3
SCALE: 1" = 30' - 0"

PLAN
NORTH



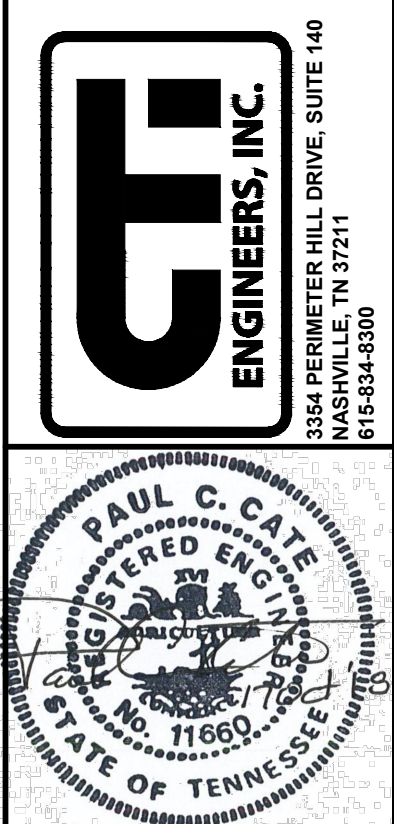
NODE SUMMARY		Node	Head Yes/No	Coordinates		Fittings At Node		
Area	Line			North	West	Inlet Reducer in x in	Cross in	Outlet Reducer in x in
North 3 Zone Header								
1	N	511688.18	2188440.46	-	-	8	-	-
2	N	511708.00	2188481.98	-	-	8	-	-
3	N	511763.66	2188526.05	6x6	-	6	-	-
4	N	511819.33	2188570.12	-	-	6	-	-
5	N	511837.05	2188611.48	6x4	-	4	-	-
6	N	511854.77	2188652.85	-	-	4	-	-
7	N	511872.49	2188694.21	4x3	-	3	-	-
8	N	511890.20	2188735.57	3x2.5	-	2.5	-	-
9	N	511887.36	2188775.47	-	-	2.5	2.5x1.5	-
10	N	511884.52	2188815.37	-	-	1.5	-	-
N-1								
1.1	N	511688.18	2188440.46	-	-	-	8x3	-
1.1	Y	511693.17	2188440.82	-	-	-	3	3x2
1.2	Y	511767.98	2188446.15	2x1.5	-	-	1.5	-
1.3	Y	511842.79	2188451.48	1.5x0.75	-	-	0.75	-
N-2								
2.1	N	511708.00	2188481.98	-	-	-	6x2.5	-
2.1	Y	511752.88	2188485.18	2.5x2	-	-	2	-
2.2	Y	511827.69	2188490.51	2x1.5	-	-	1.5	-
2.3	Y	511902.50	2188495.84	1.5x1	-	-	1	-
N-3								
3	N	511763.66	2188526.05	-	-	-	6x2	-
3.1	Y	511813.54	2188529.60	2x1.5	-	-	1.5	-
3.2	Y	511888.35	2188534.93	1.5x0.75	-	-	0.75	-
N-4								
4	N	511819.33	2188570.12	-	-	-	6x2	-
4.1	Y	511869.20	2188573.67	-	-	-	2	2x1.5
4.2	Y	511944.01	2188579.00	1.5x0.75	-	-	0.75	-
N-5								
5	N	511837.05	2188611.48	-	-	-	4x2	-
5.1	Y	511847.02	2188612.19	-	-	-	2	2x1.5
5.2	Y	511921.83	2188617.52	-	-	-	1.5	-
N-6								
6	N	511854.77	2188652.85	-	-	-	4x2	-
6.1	Y	511864.74	2188653.56	-	-	-	2	-
6.2	Y	511939.55	2188658.89	2x1	-	-	1	-
S-1								
1	N	511688.18	2188440.46	-	-	-	8x3	-
1.1	Y	511693.17	2188440.82	-	-	-	3	3x2.5
1.2	Y	511543.55	2188430.15	-	-	-	2.5	-
1.3	Y	511328.61	2188436.41	2.5x2	-	-	2	2x1.5
1.4	Y	511310.23	2188509.17	-	-	-	1.5	-
1.5	Y	511291.86	2188581.88	1.5x0.75	-	-	0.75	-
S-2								
2	N	511708.00	2188481.98	-	-	-	8x3	-
2.1	Y	511678.07	2188479.84	3x2.5	-	-	2.5	2.5x2
2.2	Y	511693.26	2188474.51	-	-	-	2	2x1.5
2.3	Y	511528.45	2188469.17	1.5x0.75	-	-	0.75	-
S-3								
3	N	511763.66	2188526.05	-	-	-	6x3	-
3.1	Y	511738.73	2188524.27	-	-	-	3	-
3.2	Y	511663.92	2188519.93	3x2.5	-	-	2.5	-
3.3	Y	511589.11	2188513.62	2.5x2	-	-	2	-
3.4	Y	511514.30	2188508.27	2x1	-	-	1	-
S-4								
4	N	511819.33	2188570.12	-	-	-	6x3	-
4.1	Y	511794.30	2188568.34	-	-	-	3	-
4.2	Y	511719.58	2188563.00	3x2.5	-	-	2.5	-
4.3	Y	511644.77	2188557.67	-	-	-	2.5	2.5x2
4.4	Y	511569.96	2188552.34	2x1.25	-	-	1.25	-
4.5	Y	511495.15	2188547.00	-	-	-	1.25	-
S-5								
5	N	511837.05	2188611.48	-	-	-	4x3	-
5.1	Y	511772.21	2188606.86	3x2.5	-	-	2.5	-
5.2	Y	511697.40	2188601.52	-	-	-	2.5	2.5x2
5.3	Y	511622.59	2188596.19	-	-	-	2	-
5.4	Y	511547.78	2188590.86	2x1.25	-	-	1.25	-
5.5	Y	511472.97	2188585.52	-	-	-	1.25	-
S-6								
6	N	511854.77	2188652.85	-	-	-	4x3	-
6.1	Y	511789.93	2188648.23	-	-	-	3	-
6.2	Y	511715.12	2188642.89	3x2.5	-	-	2.5	2.5x2
6.3	Y	511640.31	2188637.56	-	-	-	2	2x1.5
6.4	Y	511565.50	2188632.22	-	-	-	1.5	-
S-7								
7	N	511872.49	2188694.21	-	-	-	-	-
7.1	Y	511863.51	2188693.57	-	-	-	3	3x2.5
7.2	Y	511788.70	2188688.24	-	-	-	2.5	-
7.3	Y	511713.89	2188682.90	2.5x2	-	-	2	-
7.4	Y	511639.08	2188677.57	2x1	-	-	1	-
S-8								
8	N	511890.20	2188735.57	-	-	-	-	-
8.1	Y	511881.23	2188734.93	-	-	-	2.5	-
8.2	Y	511806.42	2188729.60	-	-	-	2.5	-
8.3	Y	511731.61	2188724.27	2.5x2	-	-	2	-
8.4	Y	511656.80	2188718.93	2x1	-	-	1	-
S-9								
9	N	511887.36	2188775.47	-	-	-	-	-
9.1	Y	511873.76	2188774.76	-	-	-	2.5	2.5
9.2	Y	511802.58	2188769.43	2.5x1.5	-	-	1.5	-
9.3	Y	511727.77	2188764.10	1.5x1	-	-	1	-
S-10								
10	N	511884.52	2188815.37	-	-	-	-	-
10.1	Y	511874.61	2188814.66	-	-	-	1.5	-
10.2	Y	511799.73	2188809.33	-	-	-	1.5	-

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

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

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



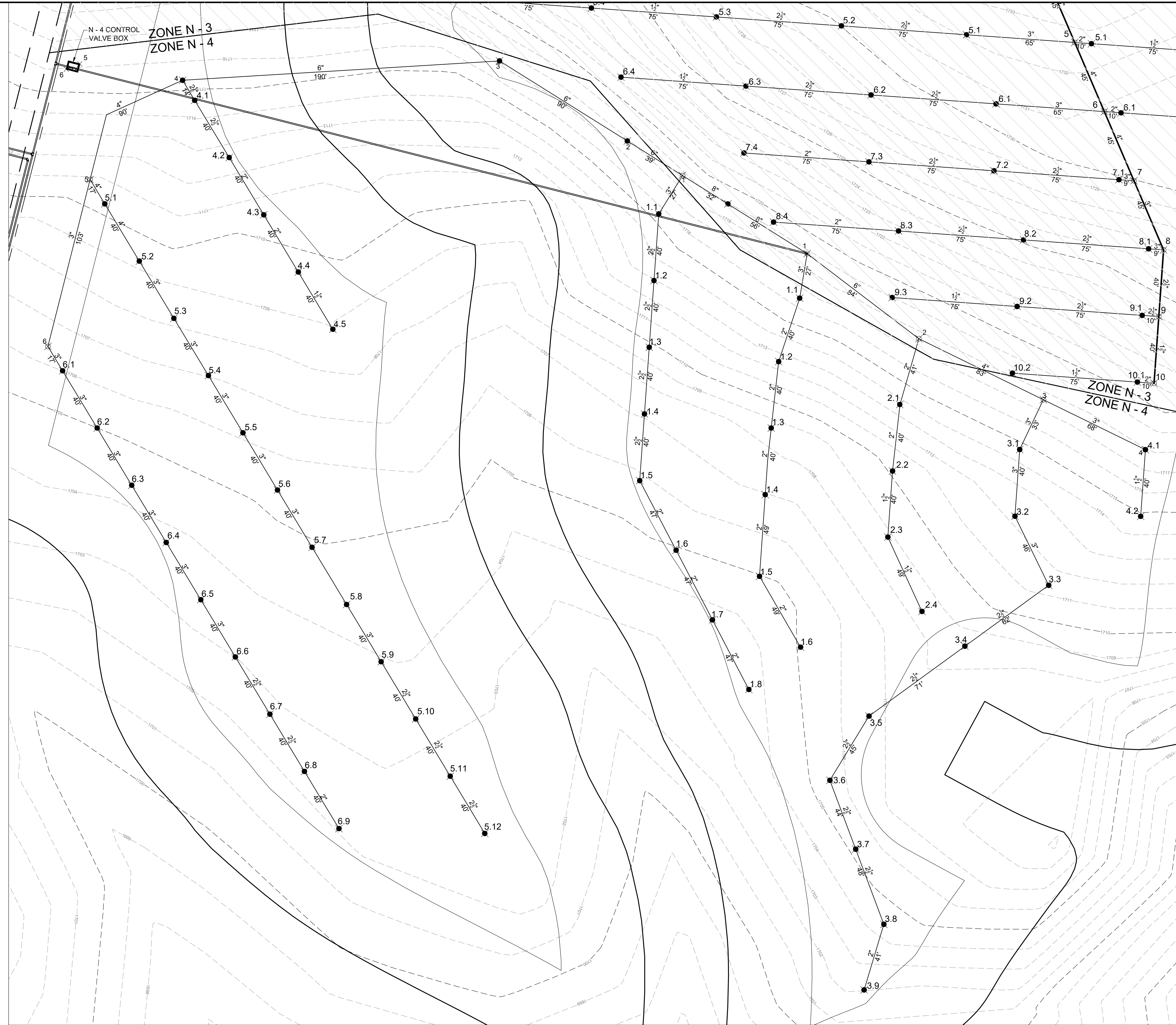
JOB NO.
N16003

ISSUE DATE
July, 2018

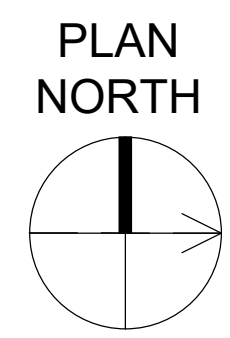
SCALE
AS NOTED

DRAWING NO.
M-1304

DATE OF PRINT: 10/17/2018 1:58 PM CTI PROJECT: N16003-01 (TN Dept. General Services TDEC) Bledsoe County Correctional Complex DRAWING: CTI - M-1305 SPRAY FIELD ZONE N-4 (665396) 5/10/17/18 12:38 PM LAYOUT: ZONE N-4



ZONE N - 4
SCALE: 1" = 30' - 0"



NODE SUMMARY		Head Yes/No	Coordinates		Fittings At Node				
Area	Line		Node	North	West	Reducer in x in	Cross in	Teel in	Outlet Reducer in x in
North 4 Zone									
North Header									
	0	N	511629.47	2188708.09	-	-	8	-	-
	1	N	511676.92	2188737.83	-	-	8	8x6	-
	2	N	511743.75	2188798.72	-	-	6	6x4	-
	3	N	511818.29	2188855.23	-	-	4	4x3	-
	4	N	511879.33	2188855.10	-	-	3	-	-
N-1									
	1.1	N	511676.92	2188737.83	-	-	-	-	8x3
	1.1	Y	511676.43	2188764.45	3x2	-	-	-	-
	1.2	Y	511659.85	2188802.42	-	-	-	-	-
	1.3	Y	511655.40	2188842.17	-	-	-	-	-
	1.4	Y	511651.82	2188882.01	-	-	-	-	-
	1.5	Y	511648.39	2188930.89	-	-	-	-	-
	1.6	Y	511672.97	2188973.27	-	-	-	-	-
N-2									
	2	N	511743.75	2188788.72	-	-	-	-	6x2
	2.1	Y	511732.33	2188828.09	-	-	-	-	-
	2.2	Y	511727.99	2188867.88	2x1.5	-	-	-	-
	2.3	Y	511725.22	2188907.41	-	-	-	-	-
	2.4	Y	511745.62	2188951.90	-	-	-	-	-
N-3									
	3	N	511818.29	2188855.23	-	-	-	-	4x3
	3.1	Y	511818.10	2188855.02	-	-	-	-	-
	3.2	Y	511818.26	2188894.92	-	-	-	-	-
	3.3	Y	511821.45	2188936.25	3x2.5	-	-	-	-
	3.4	Y	511771.29	2188972.68	-	-	-	-	-
	3.5	Y	511743.92	2189004.51	-	-	-	-	-
	3.6	Y	511663.25	2189052.95	-	-	-	-	-
	3.7	Y	511705.97	2189094.15	-	-	-	-	-
	3.8	Y	511722.82	2189139.10	-	-	-	-	-
	3.9	Y	511710.99	2189178.35	2x1.25	-	-	-	-
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	-	-	-	-
South Header									
	1	N	511602.13	2188690.98	8x6	-	-	-	-
	2	Y	511569.29	2188670.41	-	-	-	-	-
	3	Y	511492.80	2188622.52	-	-	-	-	-
	4	N	511303.15	2188634.10	-	-	-	-	6x4
	5	N	511247.80	2188693.49	-	-	-	-	4x3
	6	N	511222.57	2188793.35	-	-	-	-	-
S-1									
	1	N	511602.13	2188690.98	-	-	-	-	6x3
	1.1	Y	511588.09	2188714.04	3x2.5	-	-	-	-
	1.2	Y	511585.20	2188751.93	-	-	-	-	-
	1.3	Y	511582.40	2188793.83	-	-	-	-	-
	1.4	Y	511579.55	2188833.73	-	-	-	-	-
	1.5	Y	511576.71	2188873.63	2.5x2	-	-	-	-
	1.6	Y	511588.48	2188915.28	-	-	-	-	-
	1.7	Y	511603.25	2188956.94	-	-	-	-	-
	1.8	Y	511642.02	2188998.59	-	-	-	-	-
S-4									
	4	N	511303.15	2188634.10	-	-	-	-	6x2.5
	4.1	Y	511310.30	2188664.08	-	-	-	-	-
	4.2	Y	511331.06	2188680.33	2.5x2	-	-	-	-
	4.3	Y	511351.73	2188714.57	-	-	-	-	-
	4.4	Y	511372.40	2188748.81	2x1.5	-	-	-	-
	4.5	Y	511393.07	2188783.06	1.5x1	-	-	-	-
S-5									
	5	N	511247.80	2188693.49	-	-	-	-	-
	5.1	Y	511256.58	2188708.04	-	-	-	-	-
	5.2	Y	511277.26	2188742.29	4x3	-	-	-	-
	5.3	Y	511297.95	2188776.53	-	-	-	-	-
	5.4	Y	511318.60	2188810.77	-	-	-	-	-
	5.5	Y	511339.27	2188845.02	-	-	-	-	-
	5.6	Y	511359.95	2188879.26	-	-	-	-	-
	5.7	Y	511380.62	2188913.51	-	-	-	-	-
	5.8	Y	511401.29	2188947.75	-	-	-	-	-
	5.9	Y	511421.96	2188981.99	3x2.5	-	-	-	-
	5.10	Y	511442.64	2189016.24	-	-	-	-	-
	5.11	Y	511463.31	2189050.48	-	-	-	-	-
	5.12	Y	511483.98	2189084.73	-	-	-	-	-
S-6									
	6	N	511222.57	2188793.35	-	-	-	-	-
	6.1	Y	511231.36	2188807.91	-	-	-	-	-
	6.2	Y	511252.03	2188842.15	-	-	-	-	-
	6.3	Y	511272.70	2188876.39	-	-	-	-	-
	6.4	Y	511293.37	2188910.64	-	-	-	-	-
	6.5	Y	511314.05	2188944.88	-	-	-	-	-
	6.6	Y	511334.72	2188979.13	3x2.5	-	-	-	-
	6.7	Y	511355.39	2189013.37	-	-	-	-	-
	6.8	Y	511376.06	2189047.61	2.5x2	-	-	-	-
	6.9	Y	511396.74	2189081.86	2x1.5	-	-	-	-

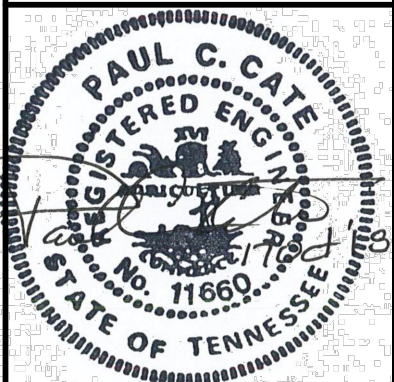
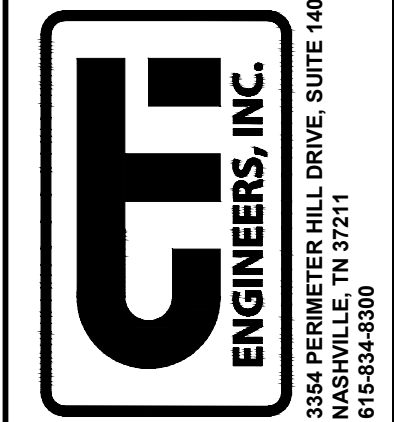
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REVISIONS	DATE	BY	APPD

DESIGN	PCC

DRAWN	JRH	CHECKED	INH	APPROVED	PCC

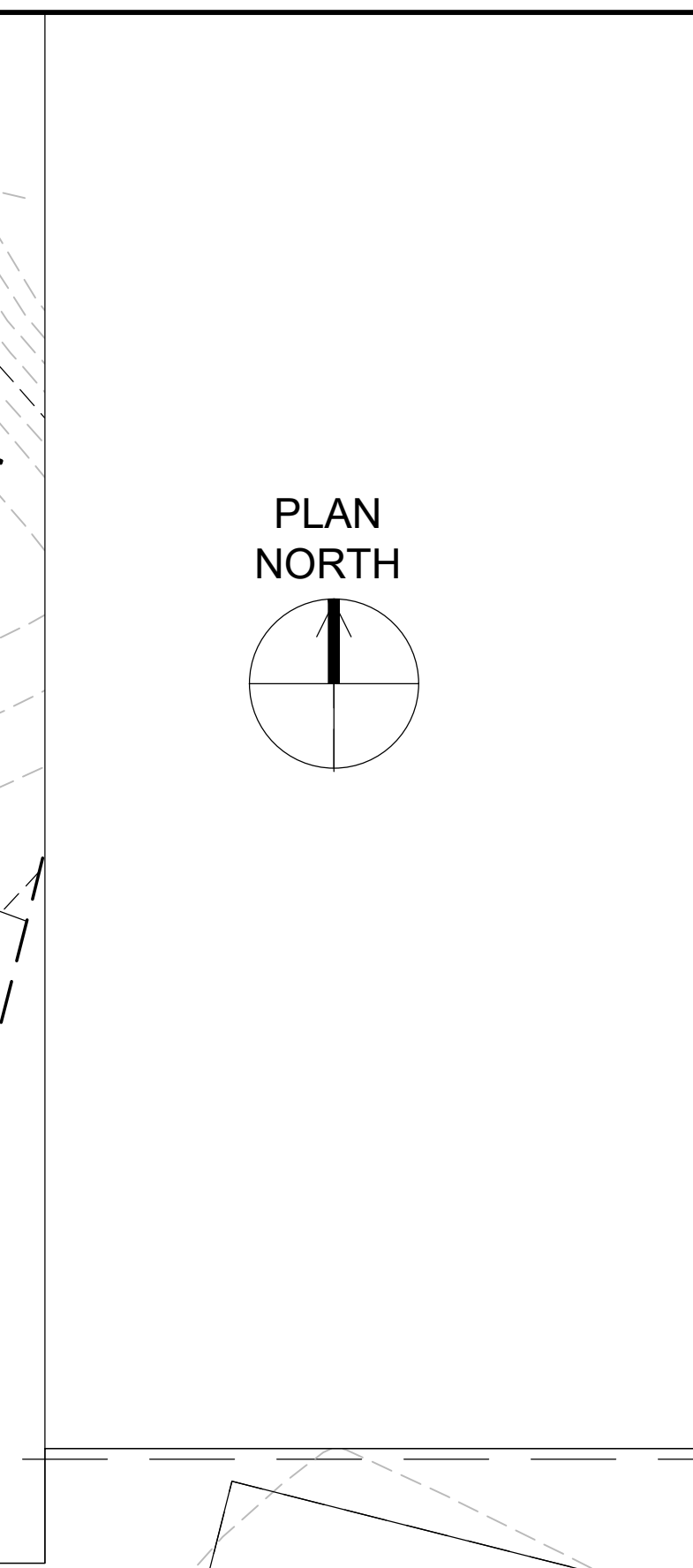
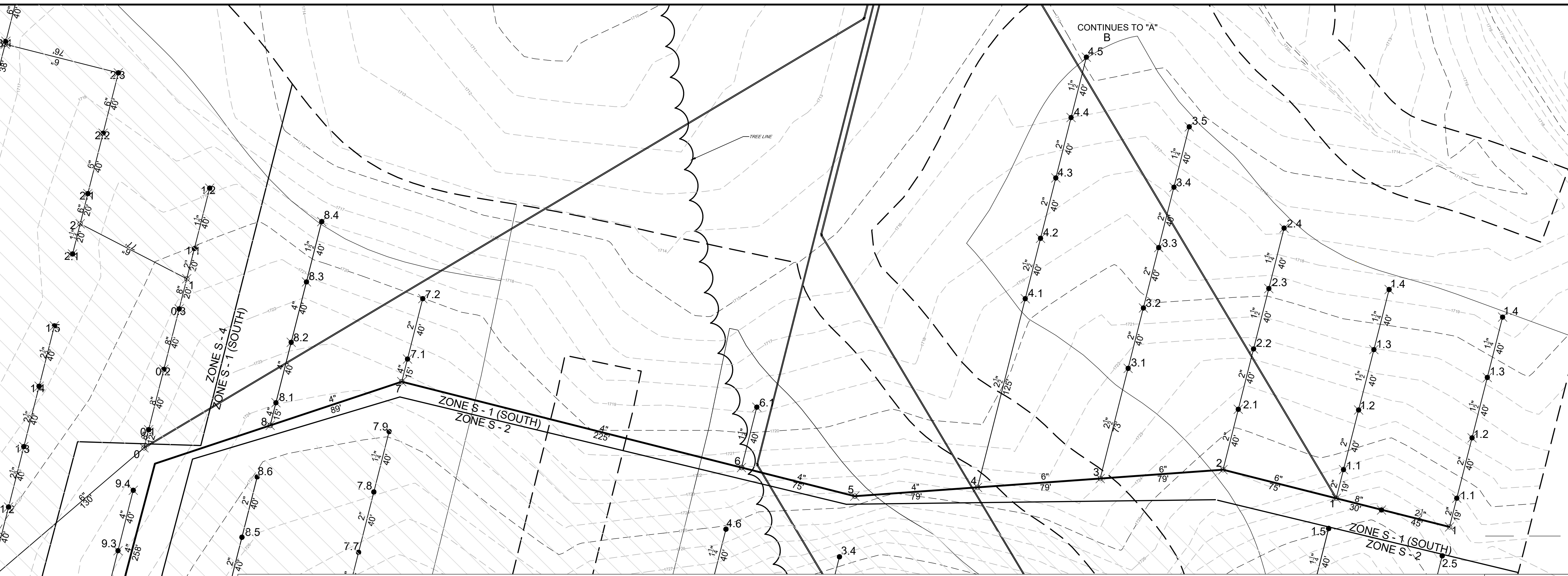
WASTEWATER TREATMENT PLANT EXPANSION
BLEDSOE COUNTY CORRECTIONAL COMPLEX
PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06
SPRAY FIELD - ZONE N - 4



JOB NO. N16003
ISSUE DATE July, 2018
SCALE AS NOTED
DRAWING NO. M-1305

CTI PROJECT: N16003-01 (TN Dept. General Services TDEC) Bledsoe County Correctional Complex, DRAWING: CTI - M-1306 SPRAY FIELD, ZONE S-1 (565397149/2418_9.52AM), LAYOUT: ZONE S-1

DATE OF PRINT: 10/17/2018 12:39 PM



NODE SUMMARY		Head		Coordinates		Fittings At Node			
Area	Line	Node	Yes/No	North	West	Inlet Reducer	Cross in	Tee in	Outlet Reducer
						in x in	in	in	in x in
North 4 Zone									
North Feeder									
	0	N		511209.96	2189817.01	-	-	8	8x4
	1	Y		511239.04	2189824.36	4x3	-	3	-
	2	Y		511277.82	2189834.17	-	-	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	-	-	-	8x2.5
	1	N		510293.73	2189994.74	-	-	2.5	2.5x2
	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	2189849.31	-	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		510387.01	2189322.08	-	-	4	-
	8	N		510358.95	2189337.62	-	-	4	-
	9	Y		510162.14	2189110.50	-	4	-	-
W-1									
	1	N		510293.73	2189994.74	-	-	-	8x2
	1.1	Y		510308.54	2189976.69	-	-	2	-
	1.2	Y		510369.82	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	-	-	-	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	-	-	-	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	-	-	-	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		510387.01	2189322.08	-	-	-	-
	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	2189337.62	-	-	-	-
	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		510200.92	2189120.31	-	-	4	-
	9.2	Y		510239.70	2189130.11	-	-	4	-
	9.3	Y		510278.48	2189139.92	-	-	4	-
	9.4	Y		510317.25	2189149.73	-	-	4	-

ZONE S-1 (SOUTH)
SCALE: 1" = 40' - 0"

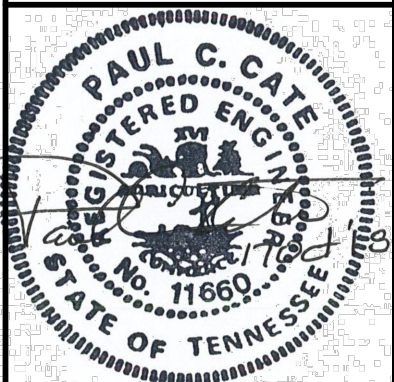
ZONE S-1 (NORTH)
SCALE: 1" = 40' - 0"

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NO.	REVISIONS DESCRIPTIONS	DATE	BY	APPD

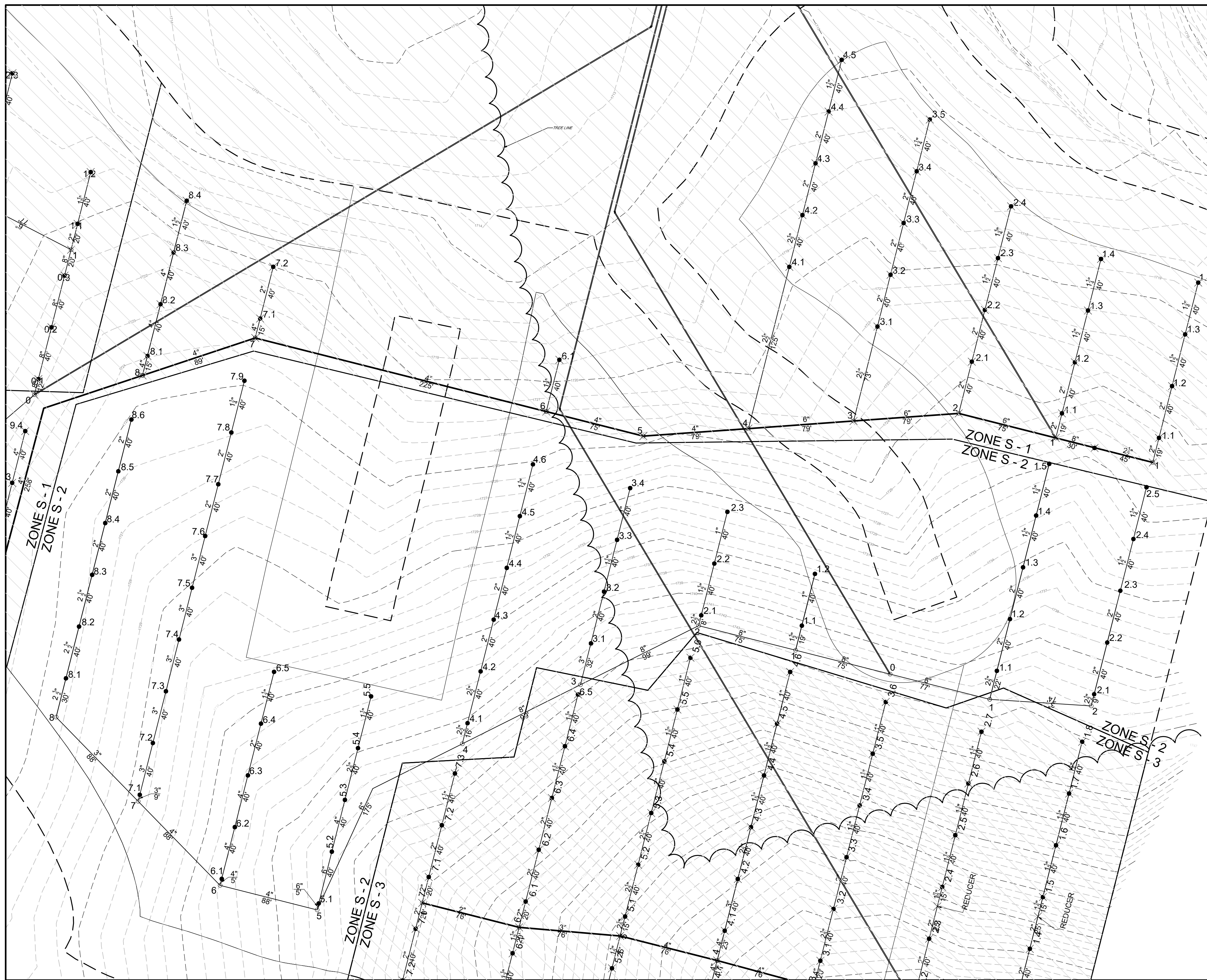
DESIGN	PCC
DRAWN	JRH
CHECKED	INH
APPROVED	PCC

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

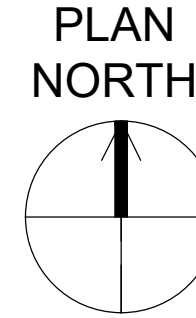


JOB NO.
N16003
ISSUE DATE
July, 2018
SCALE
AS NOTED
DRAWING NO.
M-1306

SPRAY FIELD - ZONE S - 1



ZONE S - 2
SCALE: 1" = 30' - 0"

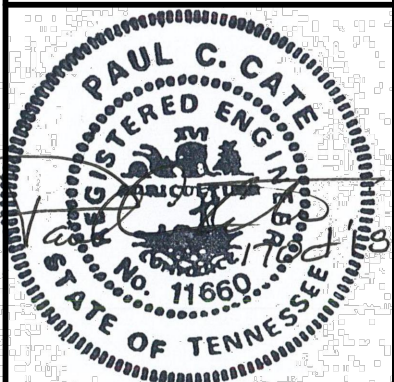
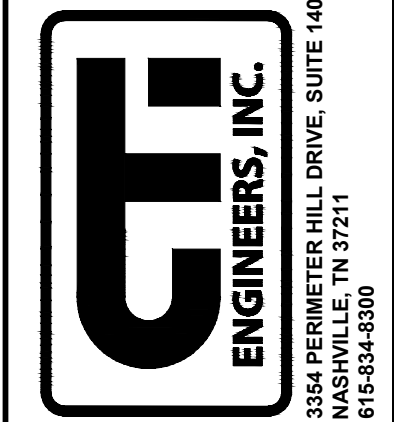


NODE SUMMARY				Fittings At Node			
Area	Line	Node	Head Yes/No	Coordinates North West	Inlet Reducer in x in	Cross in	Outlet Tee in Reducer in x in
South-2 Zone							
East Header							
	0	N		510135.14 2189797.86	-	-	-
	1	N		510116.27 2189872.51	8x6	-	6x3
	2	N		510111.33 2189948.62	3x2.5	-	2.5
E-1							
	1	N		510116.27 2189872.51	-	-	8x2.5
	1.1	Y		510137.60 2189877.91	2.5x2	-	2
	1.2	Y		510176.38 2189887.71	-	-	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 2.5x2
	2.2	Y		510158.83 2189960.63	-	-	2
	2.3	Y		510197.61 2189970.44	2x1.5	-	1.5
	2.4	Y		510236.39 2189980.24	1.5x1.25	-	1.25
	2.5	Y		510275.17 2189990.06	1.25x1	-	1
West Header							
	0	N		510135.14 2189797.86	-	-	-
	1	N		510153.04 2189777.10	-	-	8
	2	N		510171.42 2189754.38	-	-	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		509976.87 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		510171.42 2189754.38	1.5x1.25	-	1.25 1.75x1
	1.2	Y		510210.24 2189741.55	-	-	1
W-2							
	2	N		510171.42 2189564.38	-	-	8x2.5
	2.1	Y		510179.18 2189566.35	2.5x2	-	1 2x1.5
	2.2	Y		510217.96 2189566.15	1.5x1	-	1
	2.3	Y		510256.74 2189575.95	-	-	1
W-3							
	3	N		510127.16 2189565.83	-	-	8x3
	3.1	Y		510158.16 2189573.67	3x2.5	-	2.5 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		510098.40 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	1.25x0.75	-	0.75
W-5							
	5	N		509958.49 2189368.46	-	-	-
	5.1	Y		509983.33 2189369.69	-	-	6
	5.2	Y		510002.11 2189379.49	-	-	6x4
	5.3	Y		510040.89 2189389.29	-	-	4 4x2.5
	5.4	Y		510079.67 2189399.10	2.5x1.5	-	1.5 1.5x1.25
	5.5	Y		510118.45 2189408.90	1.25x1	-	1
W-6							
	6	Y		509976.87 2189295.74	-	-	-
	6.1	Y		509981.72 2189296.97	-	-	4
	6.2	Y		510000.50 2189306.78	-	-	4
	6.3	Y		510039.28 2189316.58	-	-	4 4x2
	6.4	Y		510098.06 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	-	2.5 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		510131.98 2189180.24	-	-	2.5
	8.2	Y		510170.76 2189190.05	-	-	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

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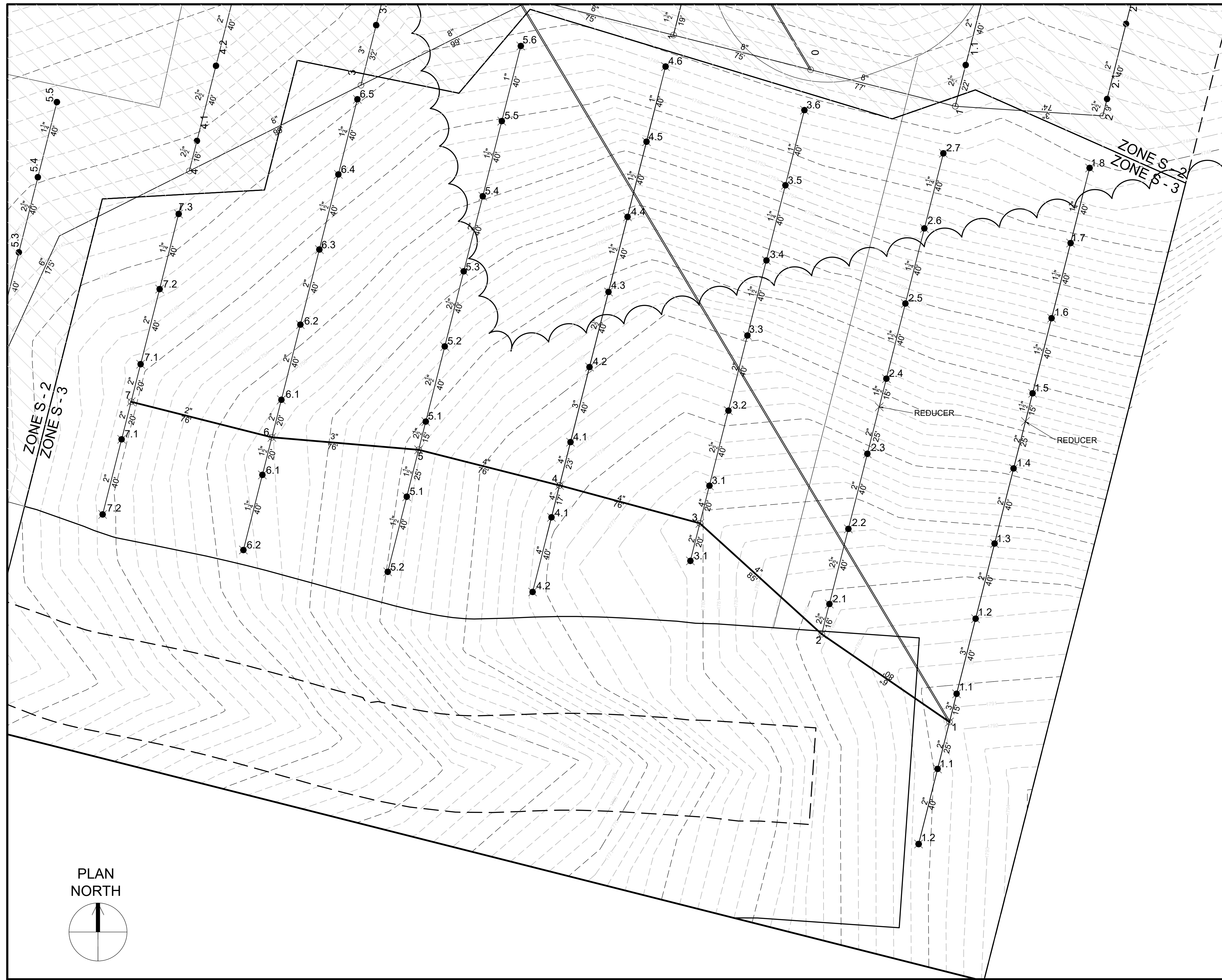
REVISIONS	NO.	DATE	BY	APPROVED
DESIGN	PCC			
DRAWN	JRH			
CHECKED	INH			
APPROVED	PCC			

WASTEWATER TREATMENT PLANT EXPANSION
BLEDSOE COUNTY CORRECTIONAL COMPLEX
PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06
SPRAY FIELD - ZONE S - 2



JOB NO.
N16003
ISSUE DATE
July, 2018
SCALE
AS NOTED
DRAWING NO.
M-1307

DATE OF PRINT: 10/17/2018 2:05 PM
 CTI PROJECT: N16003-01 (TN Dept. General Services, IDECO) Bledsoe County Correctional Complex, DRAWING: CTI-M-1308 SPRAY FIELD ZONE S-3 (6653995/10/17/18, 12:48PM) LAYOUT: ZONE S-3



ZONE S - 3
 SCALE: 1" = 30' - 0"

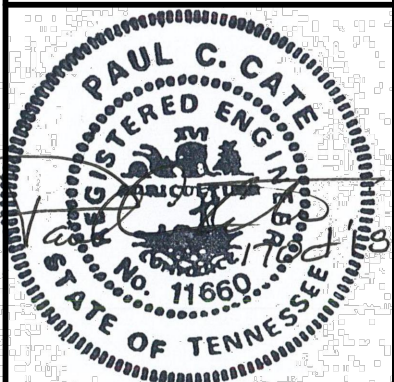
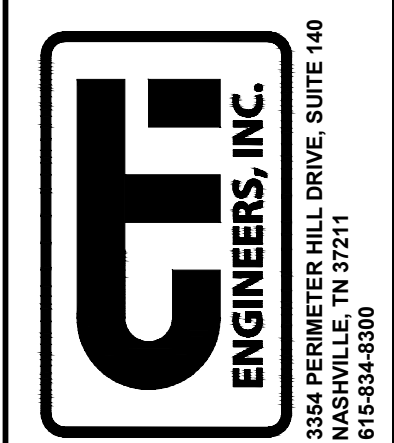
NODE SUMMARY		Head Yes/No	Coordinates		Fittings At Node				
Area	Line		Node	North	West	Inlet Reducer In x In	Cross In	Tea In	Outlet Reducer In x In
South 3 Zone									
West Header									
	0	N					8		
	1	N	509798.43	2189869.51					8x6
	2	N	509843.81	2189863.65		6x4		4	
	3	N	509900.99	2189740.72				4	
	4	N	509920.57	2189668.33				4	
	5	N	509938.96	2189595.59		4x3			
	6	N	509945.37	2189519.87		3x2		2	
	7	N	509963.73	2189447.24				2	
N-1									
	1	N	509798.43	2189869.51					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	2189902.60				2	
	1.4.A	N	509955.55	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	509843.81	2189863.65					6x2.5
	2.1	Y	509859.32	2189870.54				2.5	
	2.2	Y	509898.10	2189877.34				2.5	2.5x2
	2.3	Y	509936.88	2189882.14				2	
	2.3.A	N	509961.12	2189883.28					2x1.5
	2.4	Y	509995.66	2189896.95				1.5	
	2.5	Y	510014.44	2189906.75				1.5	1.5x1.25
	2.6	Y	510053.22	2189916.56				1.25	
	2.7	Y	510092.00	2189926.37		1.25x0.75		0.75	
N-3									
	3	N	509900.99	2189740.72					
	3.1	Y	509920.38	2189745.63		4x2.5		2.5	
	3.2	Y	509959.16	2189755.44				2.5	2.5x2
	3.3	Y	509997.94	2189765.24				2	2x1.5
	3.4	Y	510036.71	2189775.06				1.5	1.5x1.25
	3.5	Y	510075.49	2189784.86				1.25	1.25x1
	3.6	Y	510114.27	2189794.67				1	
N-4									
	4	N	509900.99	2189740.72					
	4.1	Y	509942.87	2189747.95				4	4x3
	4.2	Y	509981.65	2189758.76				3	3x2.5
	4.3	Y	510020.43	2189769.58		2.5x2		2	2x1.5
	4.4	Y	510059.20	2189780.39				1.5	
	4.5	Y	510097.99	2189791.18		1.5x1		1	
	4.6	Y	510136.77	2189792.98				1	
N-5									
	5	N	509938.96	2189595.59					4x2.5
	5.1	Y	509963.50	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	2189869.51					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	509900.99	2189740.72					
	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	509944.35	2189442.33				2	
	7.2	Y	509905.57	2189432.52		2x1.25		1.25	

THIS DRAWING IS AN INSTRUMENT OF SERVICE OWNED BY CONSOLIDATED TECHNOLOGIES, INC. (CTI), WHICH SHALL BE DEEMED THE AUTHOR AND WHICH SHALL REMAIN ALL STATUTORY AND COMMON LAW RIGHTS RESERVED. THIS DRAWING SHALL NOT BE REPRODUCED, COPIED, OR DISTRIBUTED TO OTHERS IN ANY FORM OR USED FOR ANY OTHER PURPOSE OR PROJECT WITHOUT PRIOR WRITTEN CONSENT OF CTI. CTI IS NOT RESPONSIBLE FOR CONSEQUENCES RELATED TO UNAUTHORIZED USE OR REUSE OF THIS DRAWING OR PORTIONS THEREOF.

REVISIONS	DATE	BY	APPD

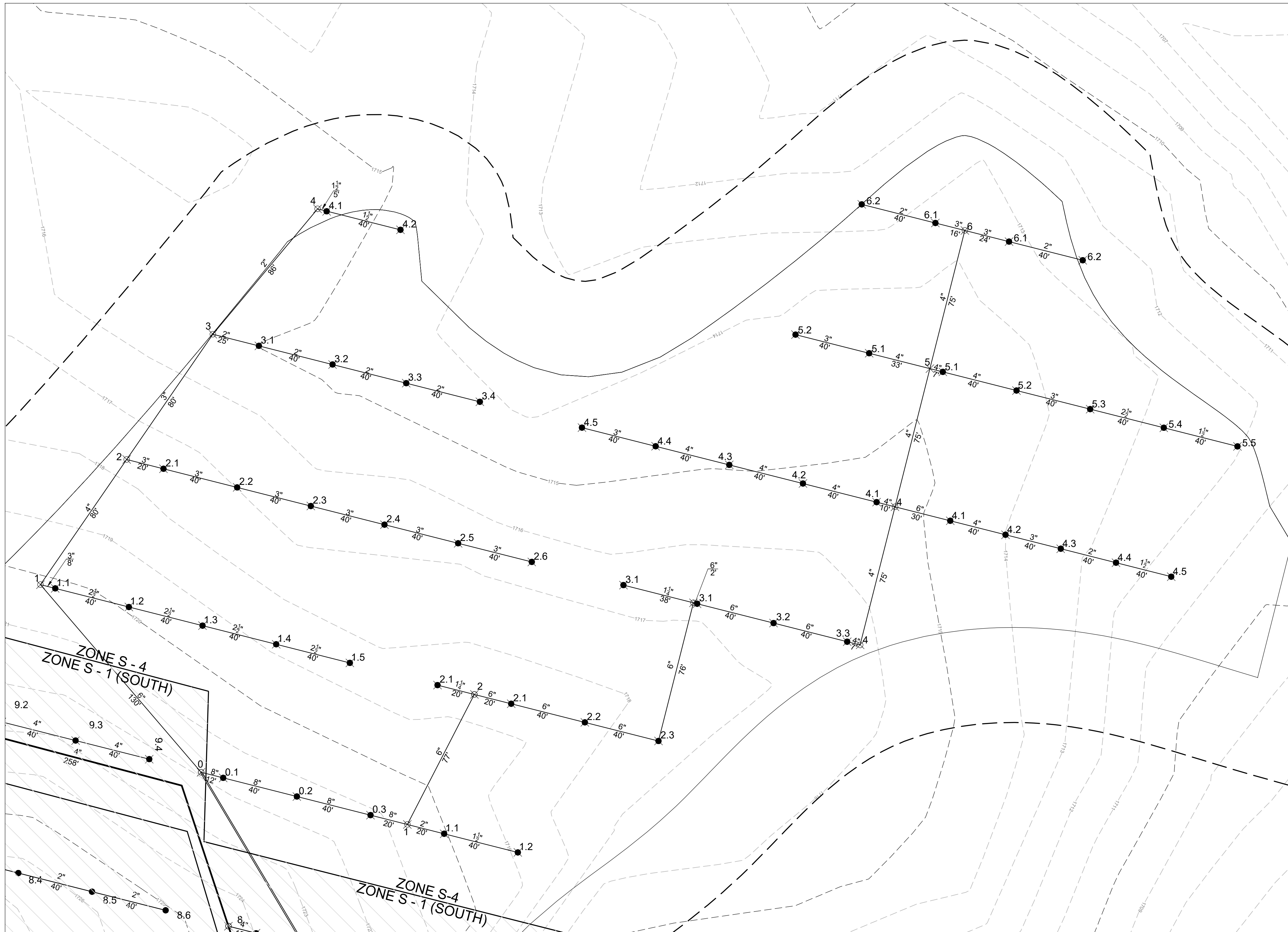
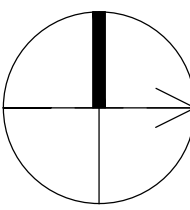
DESIGN	PCC	DRAWN	JRH	CHECKED	INH	APPROVED	PCC

WASTEWATER TREATMENT PLANT EXPANSION
BLED SOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06
SPRAY FIELD - ZONE S - 3



JOB NO.
 N16003
 ISSUE DATE
 July, 2018
 SCALE
 AS NOTED
 DRAWING NO.
 M-1308

PLAN
NORTH



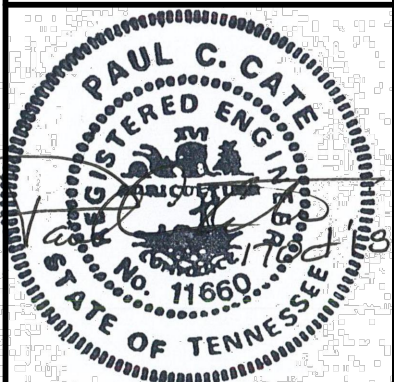
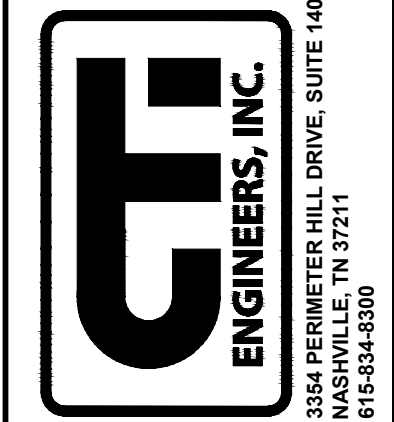
ZONE S - 4
SCALE: 1" = 30' - 0"

NODE SUMMARY		Head	Coordinates		Fittings At Node			Outlet	
Area	Line	Node	Yes/No	North	West	Reducer	Inlet	Te	Outlet
						In x in	Cross	in	Reducer
							In		In x in
South 4 Zone									
North Header									
0	N	510344.55	2189156.63	-	-	-	-	8	-
0.1	Y	510356.18	2189159.57	-	-	-	-	8	-
0.2	Y	510394.96	2189169.38	-	-	-	-	8	-
0.3	Y	510433.74	2189179.18	-	-	-	-	8	-
1	N	510453.13	2189184.08	-	-	6x6	-	6	-
2	N	510488.42	2189115.65	-	-	-	-	6	-
2.1	Y	510507.81	2189120.55	-	-	-	-	6	-
2.2	Y	510546.59	2189130.35	-	-	-	-	6	-
2.3	Y	510585.37	2189140.16	-	-	-	-	6	-
3	N	510603.75	2189067.45	-	-	-	-	6	-
3.1	Y	510605.69	2189067.94	-	-	-	-	6	-
3.2	Y	510645.92	2189078.11	-	-	-	-	6	-
3.3	Y	510684.70	2189087.91	-	-	6x4	-	4	-
4	N	510709.88	2189016.92	-	-	-	-	4	-
5	N	510728.26	2188944.21	-	-	-	-	4	-
6	N	510746.65	2188871.50	-	-	-	-	4	-
N-N-1									
1	N	510453.13	2189184.08	-	-	-	-	6x2	-
1.1	Y	510472.52	2189198.99	-	-	2x1.5	-	1.5	-
1.2	Y	510511.30	2189198.79	-	-	1.5x1	-	1	-
N-N-4									
4	N	510709.88	2189016.92	-	-	-	-	4	-
4.2	Y	510706.18	2189014.47	-	-	-	-	4	-
4.3	Y	510661.40	2189004.66	-	-	4x3	-	3	3x2
4.3	Y	510622.62	2188994.86	-	-	-	-	2	-
4.4	Y	510583.84	2188985.05	-	-	-	-	2	2x1.5
4.5	Y	510545.06	2188975.25	-	-	-	-	1.5	-
N-N-5									
5	N	510728.26	2188944.21	-	-	-	-	-	-
5.1	Y	510735.05	2188945.92	-	-	-	-	4	-
5.2	Y	510773.83	2188955.73	-	-	4x3	-	3	-
5.3	Y	510812.61	2188965.53	-	-	-	-	3	3x2.5
5.4	Y	510851.39	2188975.34	-	-	2.5x2	-	2	2x1.5
5.5	Y	510890.17	2188985.14	-	-	-	-	1.5	-
N-N-6									
6	N	510746.65	2188871.50	-	-	-	-	4x3	-
6.1	Y	510731.13	2188967.37	-	-	3x2	-	2	-
6.2	Y	510692.36	2188857.77	-	-	2x1.25	-	1.25	-
N-S-2									
2	N	510488.42	2189115.65	-	-	-	-	6x1.25	-
2.1	Y	510469.03	2189110.74	-	-	1.25x1	-	1	-
N-S-3									
3	N	510603.75	2189067.45	-	-	-	-	6x1.25	-
3.1	Y	510566.91	2189058.13	-	-	-	-	1.25	-
N-S-4									
4	N	510709.88	2189016.92	-	-	-	-	-	-
4.1	Y	510738.96	2189024.77	-	-	-	-	4	-
4.2	Y	510768.04	2189031.63	-	-	-	-	4	-
4.3	Y	510797.13	2189038.98	-	-	-	-	4	-
4.4	Y	510826.21	2189046.34	-	-	-	-	4	4x3
4.5	Y	510855.30	2189053.69	-	-	-	-	3	-
N-S-5									
5	N	510728.26	2188944.21	-	-	-	-	-	-
5.1	Y	510696.27	2188936.12	-	-	-	-	4	4x3
5.2	Y	510657.49	2188926.31	-	-	-	-	3	-
N-S-6									
6	N	510746.65	2188871.50	-	-	-	-	4x3	-
6.1	Y	510769.91	2188877.38	-	-	3x2	-	2	-
6.2	Y	510808.69	2188887.18	-	-	2x1.25	-	1.25	-
South Header									
0	N	510344.55	2189156.63	-	-	-	-	8x6	-
1	N	510259.99	2189057.89	-	-	-	-	6	6x4
2	N	510305.36	2188992.00	-	-	4x3	-	3	-
3	N	510350.74	2188926.11	-	-	3x2	-	2	-
4	N	510405.90	2188960.13	-	-	2x1.5	-	1.5	-
S-N-1									
1	N	510259.99	2189057.89	-	-	-	-	6x3	-
1.1	Y	510267.74	2189059.85	-	-	-	-	3	3x2.5
1.2	Y	510306.52	2189069.65	-	-	-	-	2.5	-
1.3	Y	510345.30	2189079.46	-	-	-	-	2.5	-
1.4	Y	510384.08	2189089.26	-	-	-	-	2.5	-
1.5	Y	510422.86	2189099.07	-	-	-	-	2.5	-
S-N-2									
2	Y	510305.36	2188992.00	-	-	-	-	-	-
2.1	Y	510324.75	2188996.90	-	-	-	-	3	-
2.2	Y	510363.53	2189006.71	-	-	-	-	3	-
2.3	Y	510402.31	2189016.51	-	-	-	-	3	-
2.4	Y	510441.09	2189026.32	-	-	-	-	3	-
2.5	Y	510479.87	2189036.12	-	-	-	-	3	-
2.6	Y	510518.65	2189045.93	-	-	-	-	3	-
S-N-3									
3	N	510305.36	2188992.00	-	-	-	-	-	-
3.1	Y	510374.07	2188932.24	-	-	-	-	2	-
3.2	Y	510413.75	2188942.04	-	-	-	-	2	-
3.3	Y	510452.53	2188951.85	-	-	-	-	2	-
3.4	Y	510491.31	2188961.66	-	-	-	-	2	-
S-N-4									
4	Y	510405.90	2188960.13	-	-	-	-	-	-
4.1	Y	510410.64	2188861.44	-	-	-	-	1.5	-
4.2	Y	510449.51	2188871.15	-	-	-	-	1.5	-

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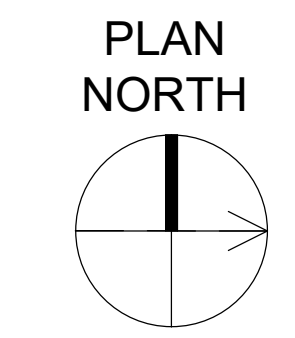
REVISIONS	DATE	DESCRIPTIONS	BY	APPD

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 - 4							



JOB NO.	N16003
ISSUE DATE	July, 2018
SCALE	AS NOTED
DRAWING NO.	M-1309

DATE OF PRINT: 10/17/2018 12:50 PM
 CTI PROJECT: N16003-01.TIN.Dwg - General Services (DEC), Bledsoe County Correctional Complex, DRAWING: CTI - M-1310 SPRAY FIELD ZONE S-5 (6/6/2018/9/24/18 9:49AM) LAYOUT: ZONE S-5



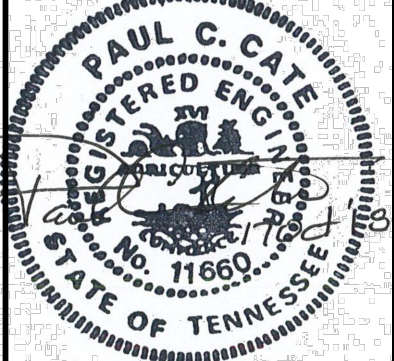
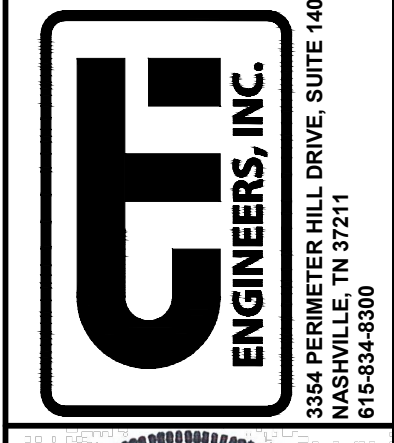
NODE SUMMARY		Head	Coordinates		Fittings At Node			Outlet	
Area	Line	Node	Yes/No	North	West	Reducer	Cross	Te	Reducer
						In x In	In	In	In x In
South 5 Zone									
Header									
	0	N							
	1	N		510483.16	2188234.47	8x6	6	-	-
	2	N		510471.30	2188273.72	-	6	-	6x4
	3	N		510459.45	2188312.97	-	4	-	4x3
	4	N		510447.60	2188352.22	-	3	-	-
	5	N		510435.74	2188391.47	-	3	-	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		510602.82	2188243.82	3x2	-	-	2x1.5
	1.3	Y		510667.63	2188249.21	-	-	-	1.5
	1.4	Y		510768.52	2188214.57	-	-	-	1.5
N-2									
	2	N		510471.30	2188273.72	-	-	-	6x2.5
	2.1	Y		510527.16	2188277.75	2.5x2	-	-	2
	2.2	Y		510581.96	2188283.14	2x1.25	-	-	1.25
	2.3	Y		510677.04	2188288.55	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		510524.49	2188398.44	-	-	-	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	2188236.73	6x4	-	-	1.5
	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	Y		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		509976.99	2188896.66	-	-	-	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		510032.89	2188675.62	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	-	-	-	3x2.5
	1.5.C	Y		510060.63	2188729.05	-	-	-	2.5
	1.5.D	Y		510079.02	2188656.34	2.5x2	-	-	2
	1.5.E	Y		510097.41	2188583.63	-	-	-	1.5
S-2									
	2	N		510471.30	2188273.72	-	-	-	6x2.5
	2.1	Y		510452.35	2188272.35	-	-	-	2.5
	2.2	Y		510377.55	2188266.96	-	-	-	2.5
	2.3	Y		510302.74	2188261.57	-	-	-	2.5
	2.4	Y		510227.93	2188256.17	-	-	-	1.5
	2.5	Y		510153.13	2188250.78	-	-	-	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	-	-	2
	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
	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
	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

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REVISIONS	DATE	BY	APPD

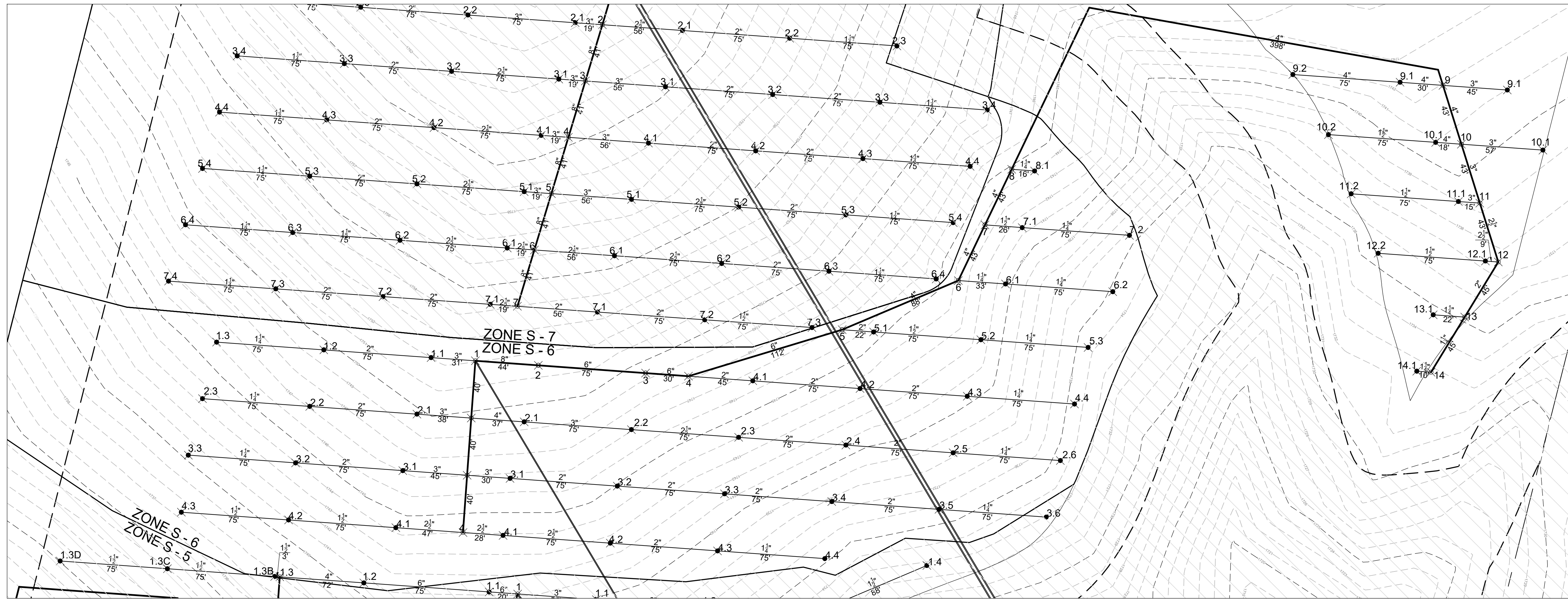
DESIGN	PCC	DRAWN	JRH	CHECKED	INH	APPROVED	PCC

WASTEWATER TREATMENT PLANT EXPANSION
BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/012/013-01-2013-06
SPRAY FIELD - ZONE S - 5

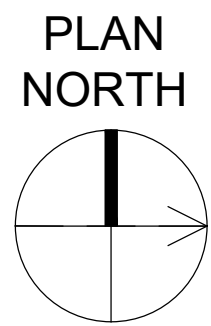


JOB NO. N16003
ISSUE DATE July, 2018
SCALE AS NOTED
DRAWING NO. M-1310

ZONE S - 5
 SCALE: 1" = 30' - 0"



ZONE S - 6
SCALE: 1" = 30' - 0"



NODE SUMMARY			Fittings At Node					
Area	Line	Node	Head Yes/No	Coordinates North West	Inlet Reducer in x in	Cross in	Outlet Tee in	Outlet Reducer in x in
South 6 Zone								
North Header								
	0	N						
	1	N		510453.64 2188071.93		8		
	2	Y		510497.52 2188075.09			8	8x6
	3	Y		510572.33 2188080.48			6	
	4	N		510602.25 2188082.64			6	
	5	N		510709.47 2188050.27	6x4		4	
	6	N		510790.53 2188016.01			4	
	7	N		510809.14 2187977.24			4	
	8	N		510827.76 2187938.48			4	
	9	N		511128.58 2187879.96		4		
	10	N		511141.44 2187920.99		4		4x3
	11	N		511154.30 2187962.02			3	3x2.5
	12	N		511167.16 2188003.05			2.5	2.5x2
	13	N		511183.73 2188041.47	2x1.25		1.25	
	14	N		511120.29 2188079.88			1.25	
N-N-4								
	4	N		510602.25 2188082.64				6x2
	4.1	Y		510647.13 2188085.88			2	
	4.2	Y		510721.94 2188091.27			2	
	4.3	Y		510796.75 2188096.66	2x1.5		1.5	1.5x1.25
	4.4	Y		510871.55 2188102.05	1.25x0.75		0.75	
N-N-5								
	5	N						4x2
	5.1	Y		510731.41 2188051.85	2x1.5		1.5	
	5.2	Y		510806.22 2188057.24			1.5	1.5x1.25
	5.3	Y		510881.02 2188062.63	1.25x0.75		0.75	
N-N-6								
	6	N		510790.53 2188016.01				4x1.25
	6.1	Y		510823.44 2188018.38			1.25	
	6.2	Y		510898.25 2188023.77			1.25	
N-N-7								
	7	N		510809.14 2187977.24				4x1.5
	7.1	Y		510835.07 2187979.11	1.5x1.25		1.25	
	7.2	Y		510909.88 2187984.51	1.25x0.75		0.75	
N-N-8								
	8	N		510827.76 2187938.48				4x1.25
	8.1	Y		510843.71 2187939.63			1.25	
N-N-9								
	9	N		511128.58 2187879.96				4x3
	9.1	Y		511173.46 2187883.20			3	
N-N-10								
	10	N		511141.44 2187920.99				4x3
	10.1	Y		511198.29 2187925.09			3	
N-S-9								
	9	N		511128.58 2187879.96				
	9.1	Y		511098.65 2187877.80			4	
	9.2	Y		511023.85 2187872.41			4	
N-S-10								
	10	N		511141.44 2187920.99				
	10.1	Y		511123.49 2187919.70			4	4x1.5
	10.2	Y		511048.68 2187914.30	1.5x1		1	
N-S-11								
	11	N		511154.30 2187962.02				
	11.1	Y		511139.34 2187960.04			3	3x1.5
	11.2	Y		511064.53 2187955.55	1.5x1		1	

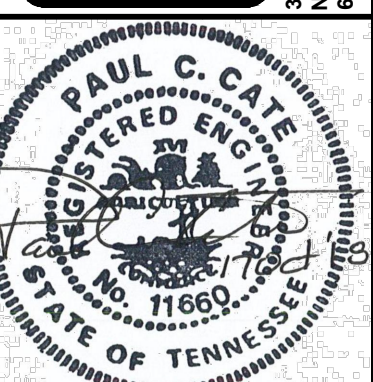
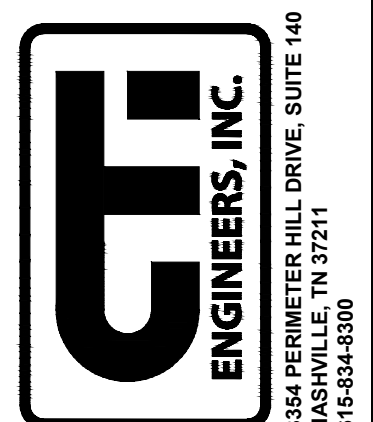
NODE SUMMARY			Fittings At Node					
Area	Line	Node	Head Yes/No	Coordinates North West	Inlet Reducer in x in	Cross in	Outlet Tee in	Outlet Reducer in x in
South 6 Zone								
N-S-12								
	12	N		511167.16 2188003.05				
	12.1	Y		511158.19 2188002.41			2.5	2.5x1.5
	12.2	Y		511083.38 2187997.01	1.5x1		1	
N-S-13								
	13	N		511183.73 2188041.47				
	13.1	Y		511121.78 2188039.89			1.25	
N-S-14								
	14	Y		511120.29 2188079.88				
	14.1	Y		511110.31 2188079.16			1.25	
East Header								
	0	N						
	1	N		510453.64 2188071.93		8		8x4
	2	N		510497.52 2188075.09		4		
	3	N		510572.33 2188080.48		4x3	3	
	4	N		510602.25 2188082.64	3x2.5	2.5		
E-N-2								
	2	N		510497.52 2188075.09				
	2.1	Y		510487.66 2188114.48		4		4x3
	2.2	Y		510561.47 2188119.88			3	3x2.5
	2.3	Y		510637.28 2188125.27	2.5x2		2	
	2.4	Y		510712.08 2188130.66			2	
	2.5	Y		510786.89 2188136.05	2x1.25		1.25	
	2.6	Y		510861.69 2188141.45	1.25x1		1	
E-N-3								
	3	N		510477.88 2188151.72				
	3.1	Y		510477.81 2188153.88			3	
	3.2	Y		510552.61 2188159.27			3	3x2.5
	3.3	Y		510627.42 2188164.66	2.5x2		2	
	3.4	Y		510702.22 2188170.05			2	
	3.5	Y		510777.03 2188175.45	2x1.5		1.5	1.5x1.25
	3.6	Y		510851.84 2188180.84	1.25x1		1	
E-N-4								
	4	Y		510453.64 2188071.93				
	4.1	Y		510472.72 2188069.70			2.5	
	4.2	Y		510547.74 2188199.02			2.5	2.5x2
	4.3	Y		510622.55 2188204.41	2x1.25		1.25	
	4.4	Y		510697.35 2188209.81	1.25x0.75		0.75	
E-S-1								
	1	N		510453.64 2188071.93				8x3
	1.1	Y		510422.72 2188069.70			3	3x2
	1.2	Y		510347.51 2188064.30	2x1.5		1.5	1.5x1.25
	1.3	Y		510273.10 2188058.91			1.25	
E-S-2								
	2	N		510450.76 2188111.82				4x3
	2.1	Y		510412.86 2188109.09			3	3x2
	2.2	Y		510338.05 2188103.70	2x1.5		1.5	1.5x1.25
	2.3	Y		510263.25 2188098.31			1.25	
E-S-3								
	3	Y		510447.88 2188151.72				3x2
	3.1	Y		510403.00 2188148.48			3	3x2
	3.2	Y		510328.19 2188143.09	2x1.25		1.25	
	3.3	Y		510253.39 2188137.70			1.25	
E-S-4								
	4	N		510602.25 2188082.64				
	4.1	Y		510396.13 2188186.24	2.5x2		2	2x1.5
	4.2	Y		510323.32 2188182.84			1.5	
	4.3	Y		510248.52 2188177.45	1.5x1.25		1.25	

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REVISIONS		DATE	BY	APPD
NO.	DESCRIPTIONS			

DESIGN	PCC	DRAWN	JRH	CHECKED	INH	APPROVED	PCC

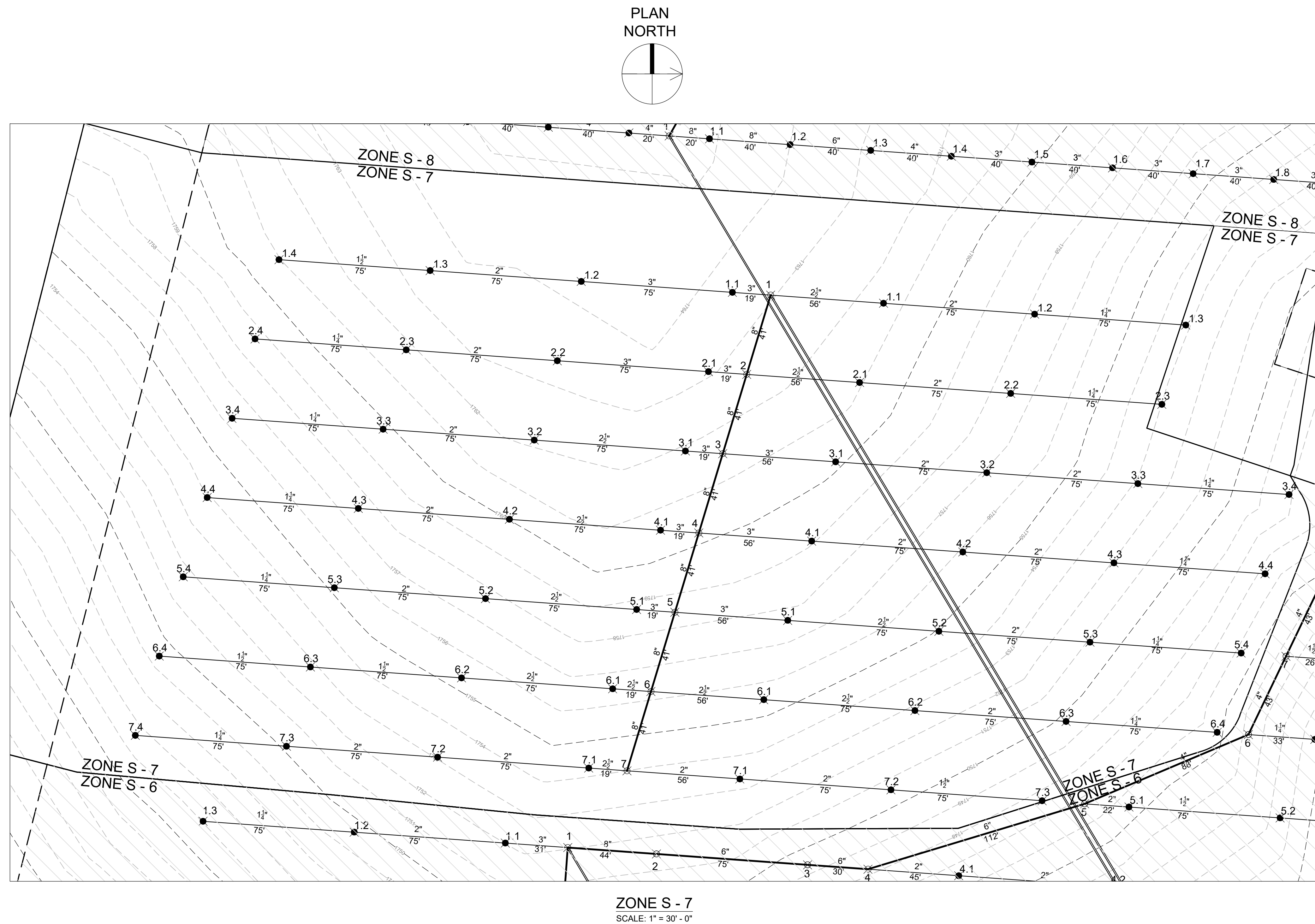
WASTEWATER TREATMENT PLANT EXPANSION
BLED SOE COUNTY CORRECTIONAL COMPLEX
PIKEVILLE, BLED SOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06
SPRAY FIELD - ZONE S - 6



JOB NO.
N16003
ISSUE DATE
July, 2018
SCALE
AS NOTED
DRAWING NO.
M-1311

DATE OF PRINT: 10/17/2018 12:56 PM

CTI PROJECT: N16003.01 (TN Dept. General Services, IDEC) Bledsoe County Correctional Complex, DRAWING: CTI_M-1312 SPRAY FIELD ZONE S-7 (6/6/2018/9/24/18 9:48AM) LAYOUT: ZONE S-7



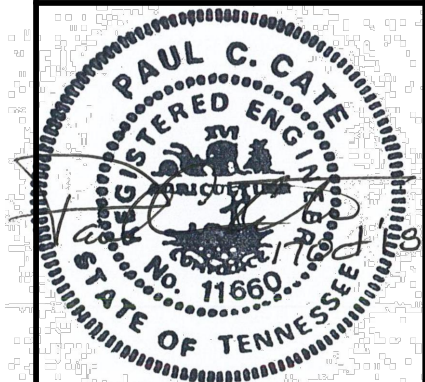
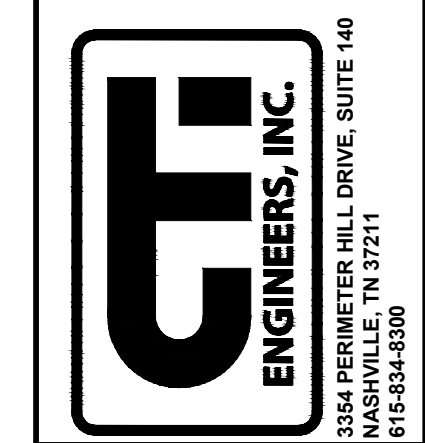
Area	Line	Node	Head Yes/No	Coordinates		Fittings At Node			Outlet Reducer In x In
				North	West	Reducer In x In	Cross In	Tea In	
South 7 Zone									
Header									
	0	N		51054.06	218798.44	-	-	-	-
	1	N		51054.21	218787.69	-	8	-	-
	2	N		51053.36	218787.94	-	6	-	8x6
	3	N		510518.51	218793.19	-	6x4	4	-
	4	N		51056.65	218795.44	-	-	4	-
	5	N		510494.80	2187994.69	4x3	3	-	-
	6	N		510482.95	2188033.94	3x2.5	2.5	-	-
N-1									
	1	N		51054.06	218798.44	-	-	-	8x2.5
	1.1	Y		510699.92	218780.47	-	-	2.5	2.5x2
	1.2	Y		510684.73	218787.86	2x1.25	-	1.25	-
	1.3	Y		510759.53	2187813.25	-	-	1.25	-
N-2									
	2	N		51054.21	218787.69	-	-	-	8x2.5
	2.1	Y		510598.07	218784.72	-	-	2.5	2.5x2
	2.2	Y		510672.87	218787.11	2x1.25	-	1.25	-
	2.3	Y		510747.68	2187852.50	-	-	1.25	-
N-3									
	3	N		510530.36	2187876.94	-	-	-	6x3
	3.1	Y		510586.21	2187880.97	3x2.5	-	2.5	2.5x2
	3.2	Y		510661.02	2187886.36	-	-	2	-
	3.3	Y		510735.83	2187891.75	2x1.5	-	1.5	1.5x1.25
	3.4	Y		510810.63	2187897.14	1.25x1	-	1	-
N-4									
	4	N		510518.51	2187931.19	-	-	-	4x3
	4.1	Y		510574.36	2187930.21	3x2	-	2	-
	4.2	Y		510649.17	2187925.61	-	-	2	-
	4.3	Y		510723.97	2187931.00	2x1.25	-	1.25	-
	4.4	Y		510798.78	2187936.39	1.25x1	-	1	-
N-5									
	5	N		51056.65	218795.44	-	-	-	4x3
	5.1	Y		510523.28	2187950.48	3x2.5	-	2.5	-
	5.2	Y		510637.31	2187964.86	2.5x2	-	2	-
	5.3	Y		510712.12	2187970.25	2x1.25	-	1.25	-
	5.4	Y		510786.93	2187975.64	1.25x0.75	-	0.75	-
N-6									
	6	N		510494.80	2187994.69	-	-	-	3x2.5
	6.1	Y		510550.66	2187998.71	-	-	2.5	-
	6.2	Y		510625.46	2188004.11	2.5x2	-	2	-
	6.3	Y		510700.27	2188009.50	2x1.25	-	1.25	-
	6.4	Y		510775.07	2188014.89	1.25x1	-	1	-
N-7									
	7	N		510482.95	2188033.94	-	-	-	2.5x2
	7.1	Y		510538.80	2188037.96	-	-	2	-
	7.2	Y		510613.61	2188043.36	-	-	2	2x1.5
	7.3	Y		510688.41	2188048.75	1.5x1	-	1	-
S-1									
	1	N		51054.06	218798.44	-	-	-	8x3
	1.1	Y		510535.11	2187977.07	-	-	3	-
	1.2	Y		510610.31	2187971.68	-	-	3	3x2
	1.3	Y		510685.50	2187982.20	-	-	2	2x1.5
	1.4	Y		510760.70	2187987.90	1.5x0.75	-	0.75	-
S-2									
	2	N		51054.21	218787.69	-	-	-	8x3
	2.1	Y		510523.28	2187836.33	-	-	3	-
	2.2	Y		510448.46	2187830.93	-	-	3	3x2
	2.3	Y		510373.65	2187825.54	2x1.25	-	1.25	-
	2.4	Y		510298.84	2187820.14	1.25x1	-	1	-
S-3									
	3	N		510530.36	2187876.94	-	-	-	6x3
	3.1	Y		510511.84	2187875.60	-	-	3	3x2.5
	3.2	Y		510437.04	2187870.21	-	-	2.5	2.5x2
	3.3	Y		510362.23	2187864.82	2x1.25	-	1.25	-
	3.4	Y		510287.42	2187859.43	1.25x0.75	-	0.75	-
S-4									
	4	N		510518.51	2187931.19	-	-	-	4x3
	4.1	Y		510499.56	2187914.82	3x2.5	-	2.5	-
	4.2	Y		510424.75	2187909.43	2.5x2	-	2	-
	4.3	Y		510349.94	2187904.04	2x1.25	-	1.25	-
	4.4	Y		510275.14	2187898.64	1.25x0.75	-	0.75	-
S-5									
	5	N		51056.65	218795.44	-	-	-	4x3
	5.1	Y		510487.70	2187954.07	3x2.5	-	2.5	-
	5.2	Y		510412.90	2187948.68	2.5x2	-	2	-
	5.3	Y		510338.09	2187943.29	2x1.25	-	1.25	-
	5.4	Y		510263.29	2187937.89	1.25x0.75	-	0.75	-
S-6									
	6	Y		510494.80	2187994.69	-	-	-	3x2.5
	6.1	Y		510475.85	2187993.32	-	-	2.5	-
	6.2	Y		510401.04	2187987.93	-	-	2.5	2.5x1.5
	6.3	Y		510326.24	2187982.54	-	-	1.5	-
	6.4	Y		510251.43	2187977.14	1.5x1	-	1	-
S-7									
	7	N		510482.95	2188033.94	-	-	-	-
	7.1	Y		510464.00	2188032.57	2.5x2	-	2	-
	7.2	Y		510389.19	2188027.18	-	-	2	-
	7.3	Y		510314.39	2188017.78	2x1.25	-	1.25	-
	7.4	Y		510239.58	2188016.39	1.25x0.75	-	0.75	-

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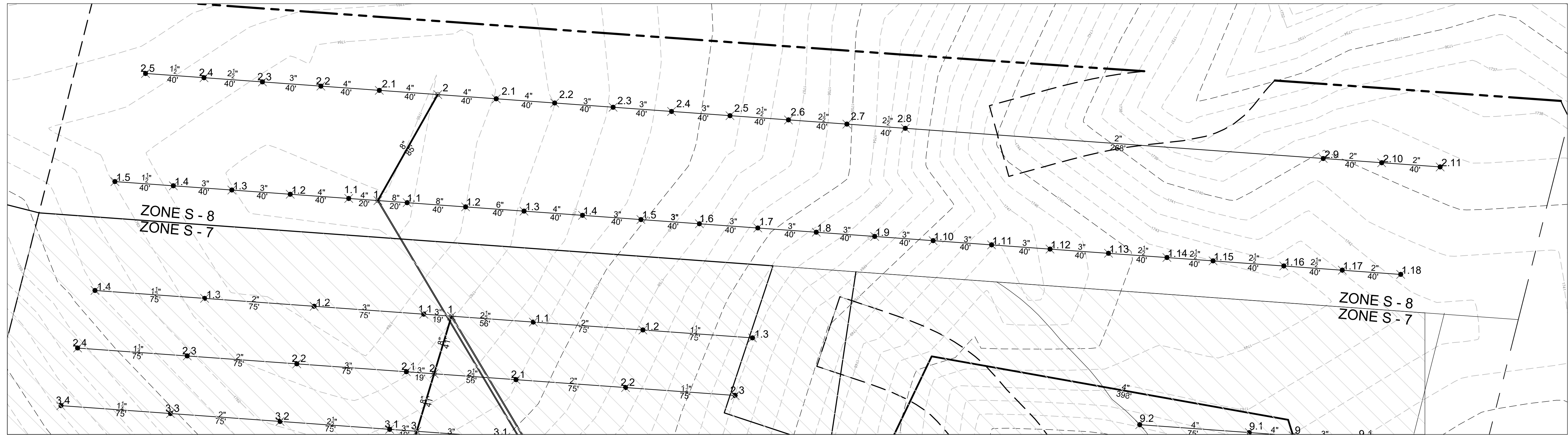
DESIGN	PCC	DRAWN	JRH	CHECKED	INH	APPROVED	PCC

WASTEWATER TREATMENT PLANT EXPANSION
BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06
SPRAY FIELD - ZONE S - 7



JOB NO.
N16003
ISSUE DATE
July, 2018
SCALE
AS NOTED
DRAWING NO.
M-1312

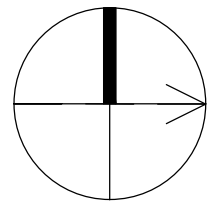
DATE OF PRINT: 10/17/2018 12:57 PM C:\PROJ\ECT-N16003-01\TN_Dept_General_Services\TDEC\Bledsoe County Correctional Complex DRAWING-CTI-M-1313 SPRAY FIELD ZONE S-8 (656540439/24/18 9:47AM) LAYOUT- ZONE S-8



ZONE S - 7
SCALE: 1" = 40' - 0"

NODE SUMMARY		Node	Head Yes/No	Coordinates		Fittings At Node			
Area	Line			North	West	Inlet Reducer in x in	Cross in	Teel 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	511082.33	2187761.32	-	-	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	510463.90	2187717.19	4x3	-	3	-	
	1.3	Y	510443.91	2187716.19	-	-	3	-	
	1.4	Y	510423.92	2187715.19	-	-	3	-	
	1.5	Y	510403.93	2187714.19	-	-	3	3x1.5	
S-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	2.5x1.5	-	1.5	-	
	2.5	Y	510345.21	2187706.68	1.5x1	-	1	-	

PLAN NORTH

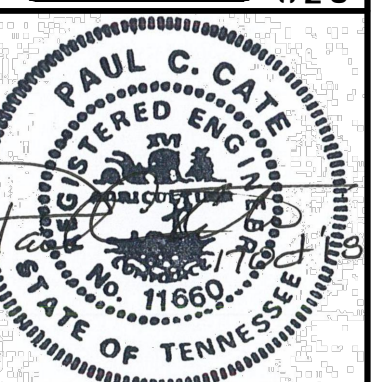
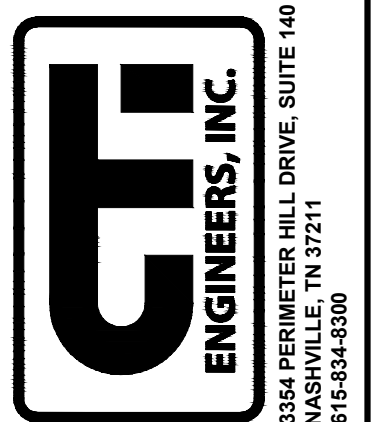


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REVISIONS	DATE	BY	APPD
NO.			
DESCRIPTIONS			

DESIGN	PCC
DRAWN	JRH
CHECKED	NH
APPROVED	PCC

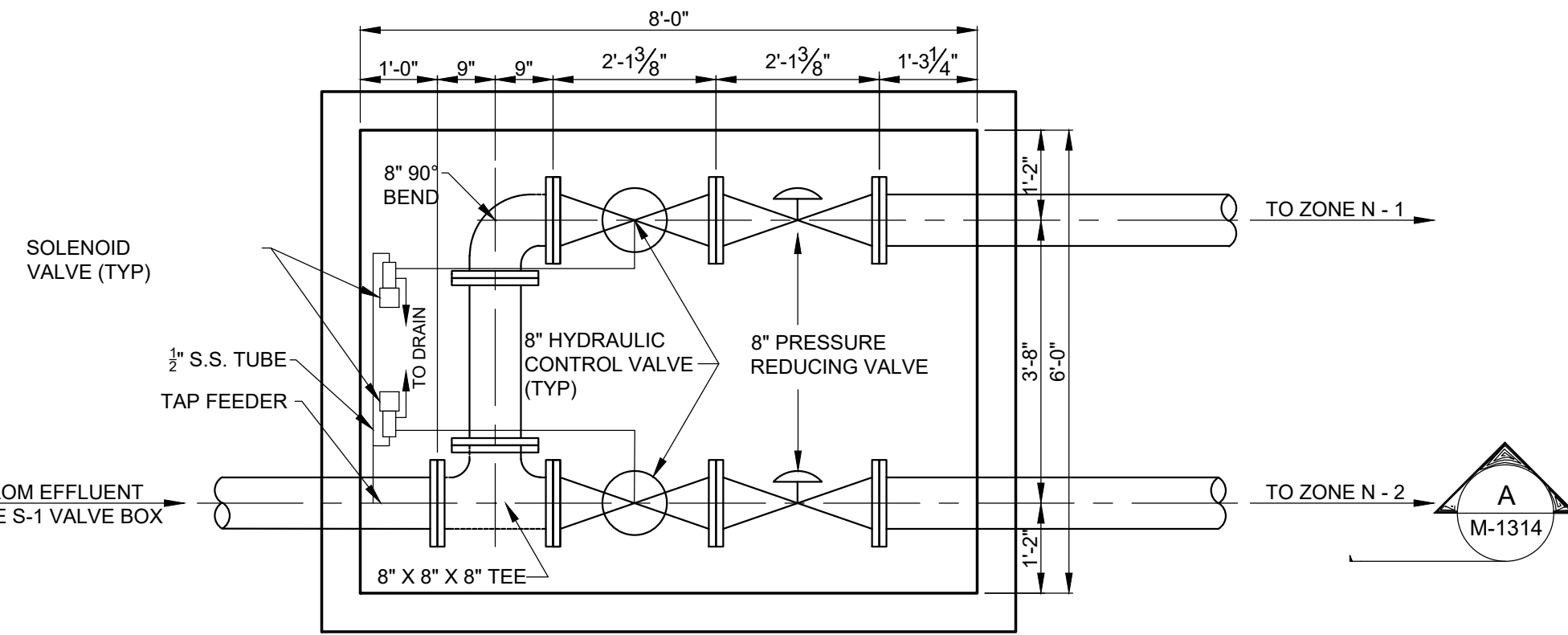
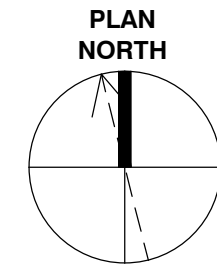
WASTEWATER TREATMENT PLANT EXPANSION
BLEDSOE COUNTY CORRECTIONAL COMPLEX
PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06
SPRAY FIELD - ZONE S - 8



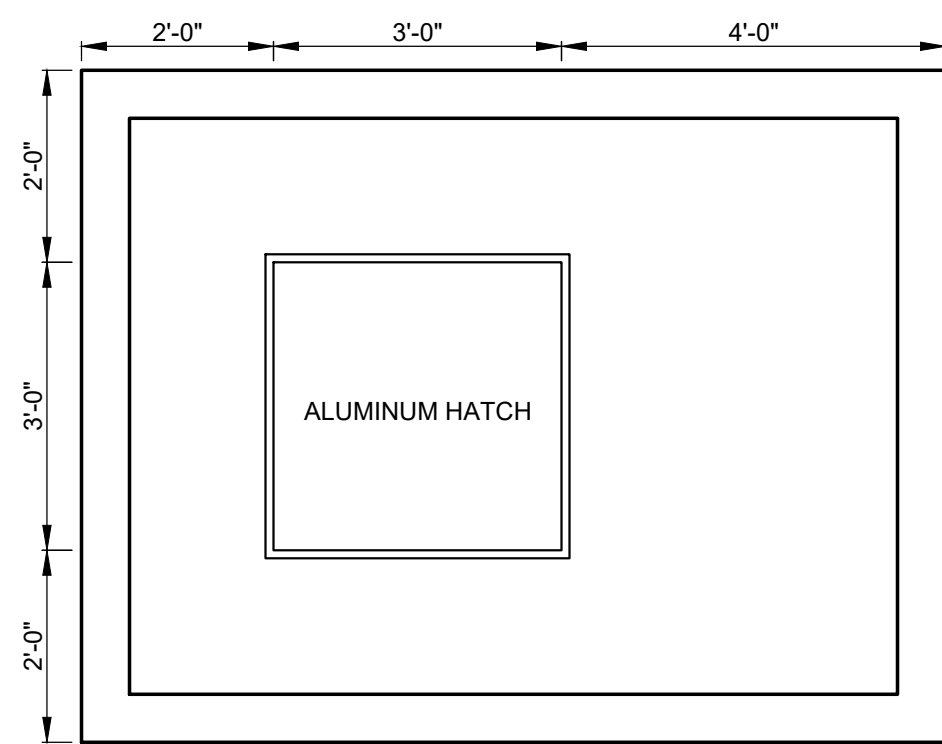
JOB NO.
N16003
ISSUE DATE
July, 2018
SCALE
AS NOTED
DRAWING NO.
M-1313

CTI PROJECT: N16003-01 (TN Dept. General Services, TDEC) Bledsoe County Correctional Complex, DRAWING: CTI - M-1314 N-1 - N-4 SPRAY FIELD VALVE BOX PLAN & SECTION (6/24/19/10/11/18 4:42PM), LAYOUT: ZONE N-1-N-4

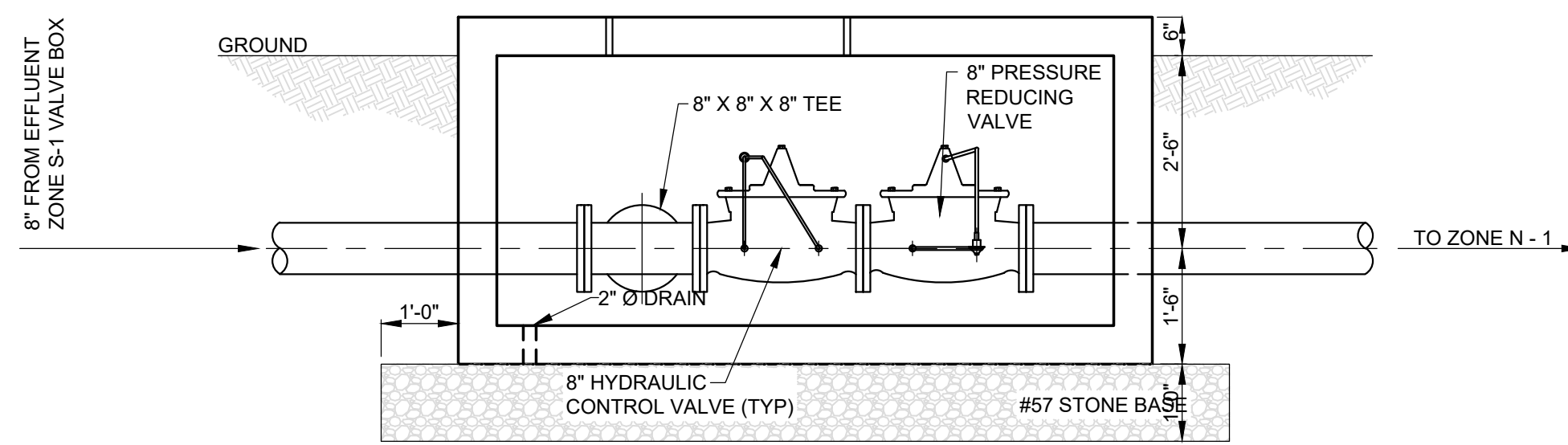
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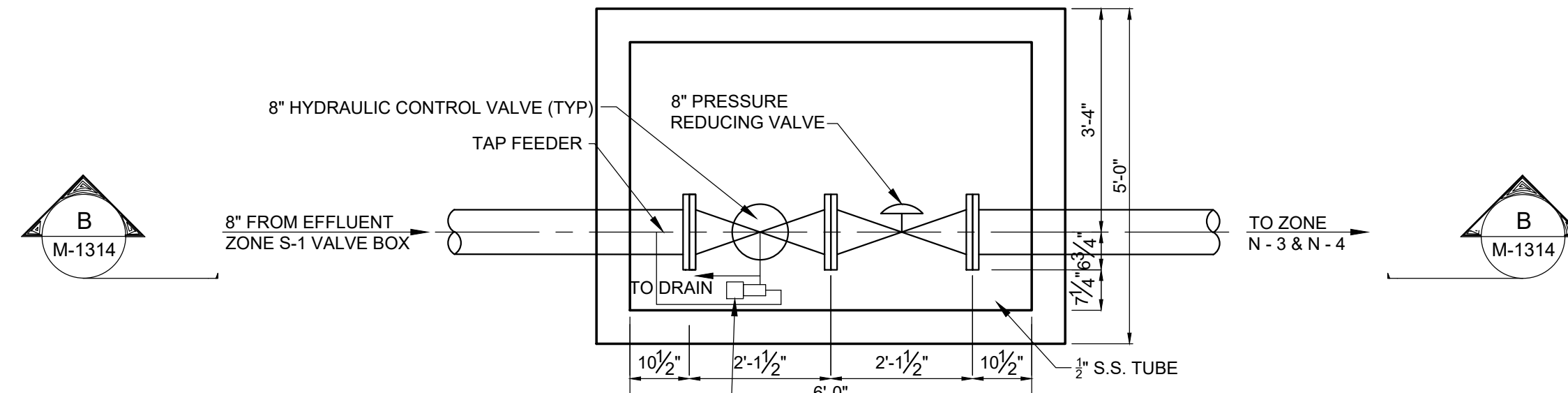
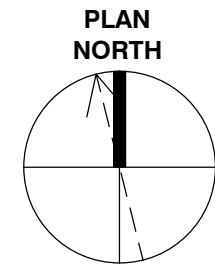
N - 1, N - 2 VALVE BOX PLAN
SCALE: 1/2" = 1' - 0"



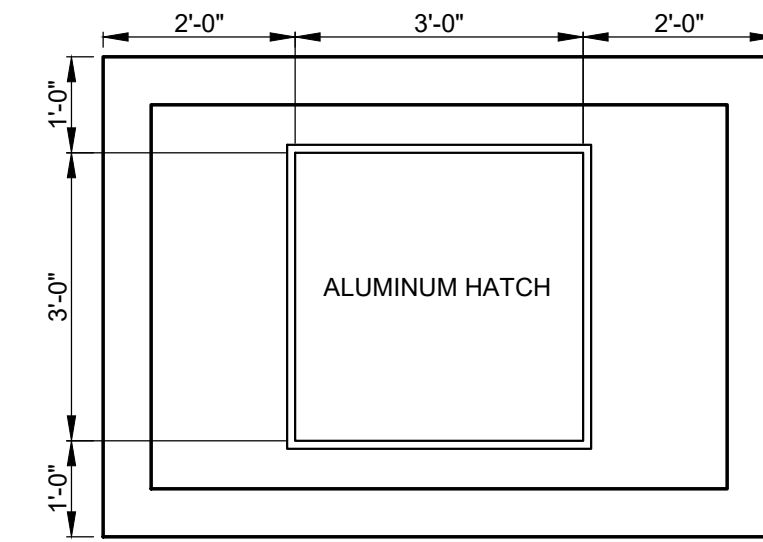
N - 1, N - 2 VALVE BOX PLAN
SCALE: 1/2" = 1' - 0"



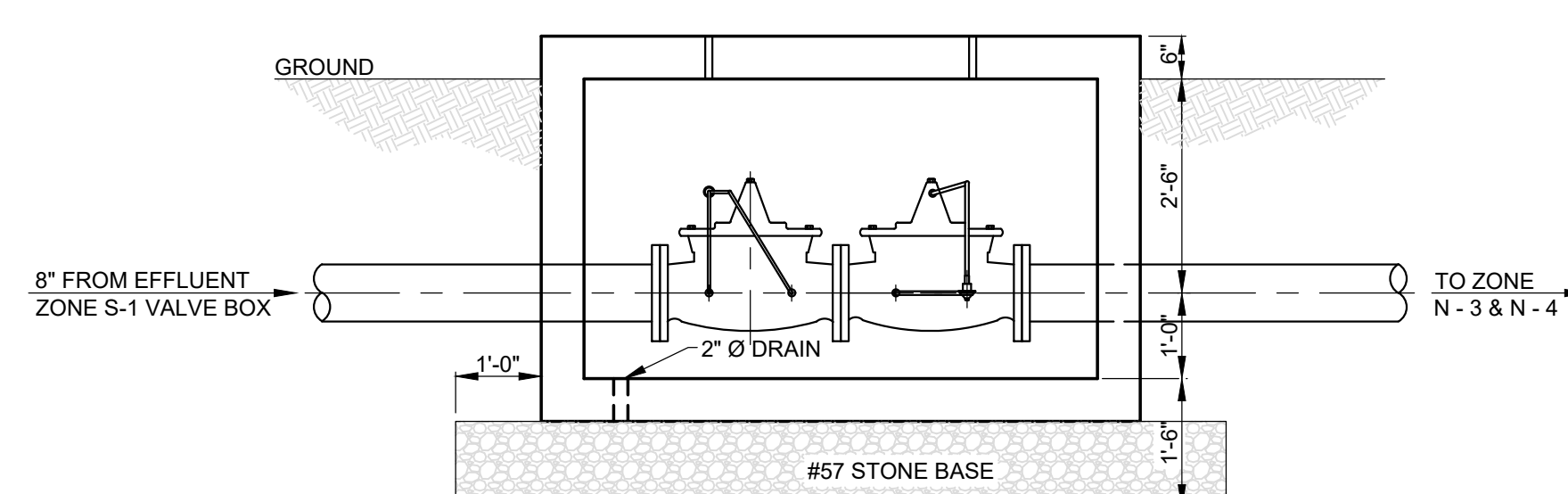
N - 1, N - 2 VALVE BOX SECTION
SCALE: 1/2" = 1' - 0"



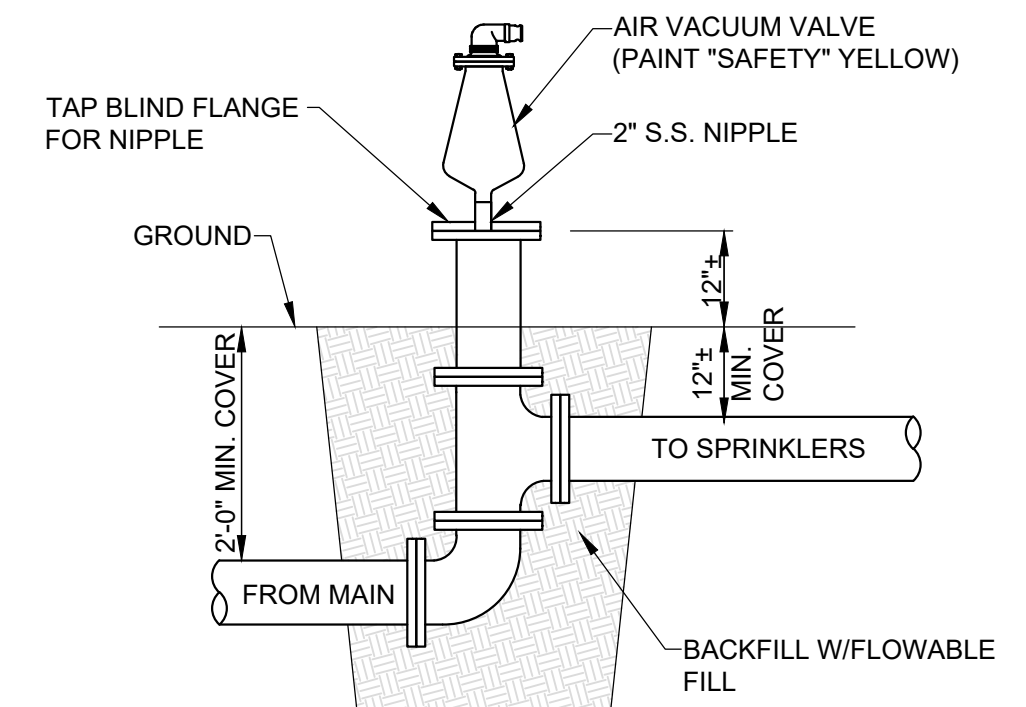
N - 3 & N - 4 VALVE BOX PLAN
SCALE: 1/2" = 1' - 0"



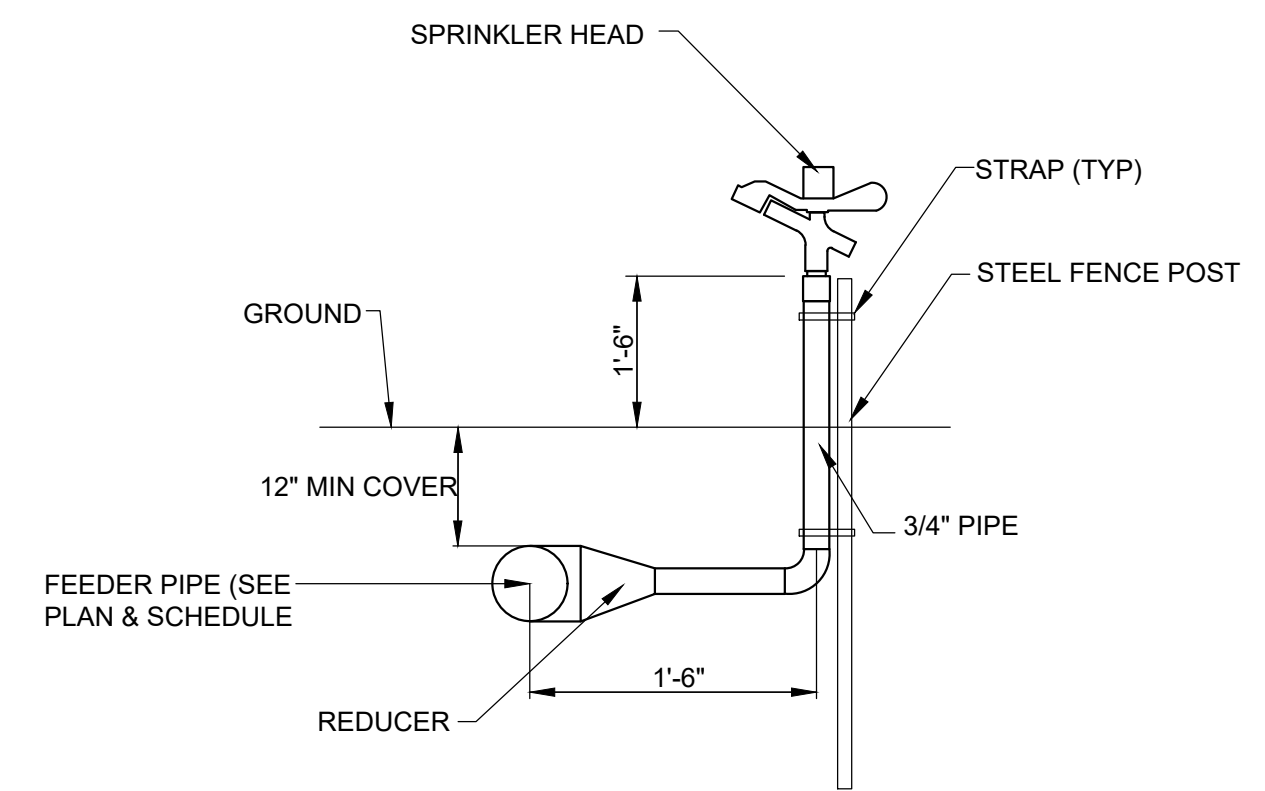
N - 3 & N - 4 VALVE BOX PLAN
SCALE: 1/2" = 1' - 0"



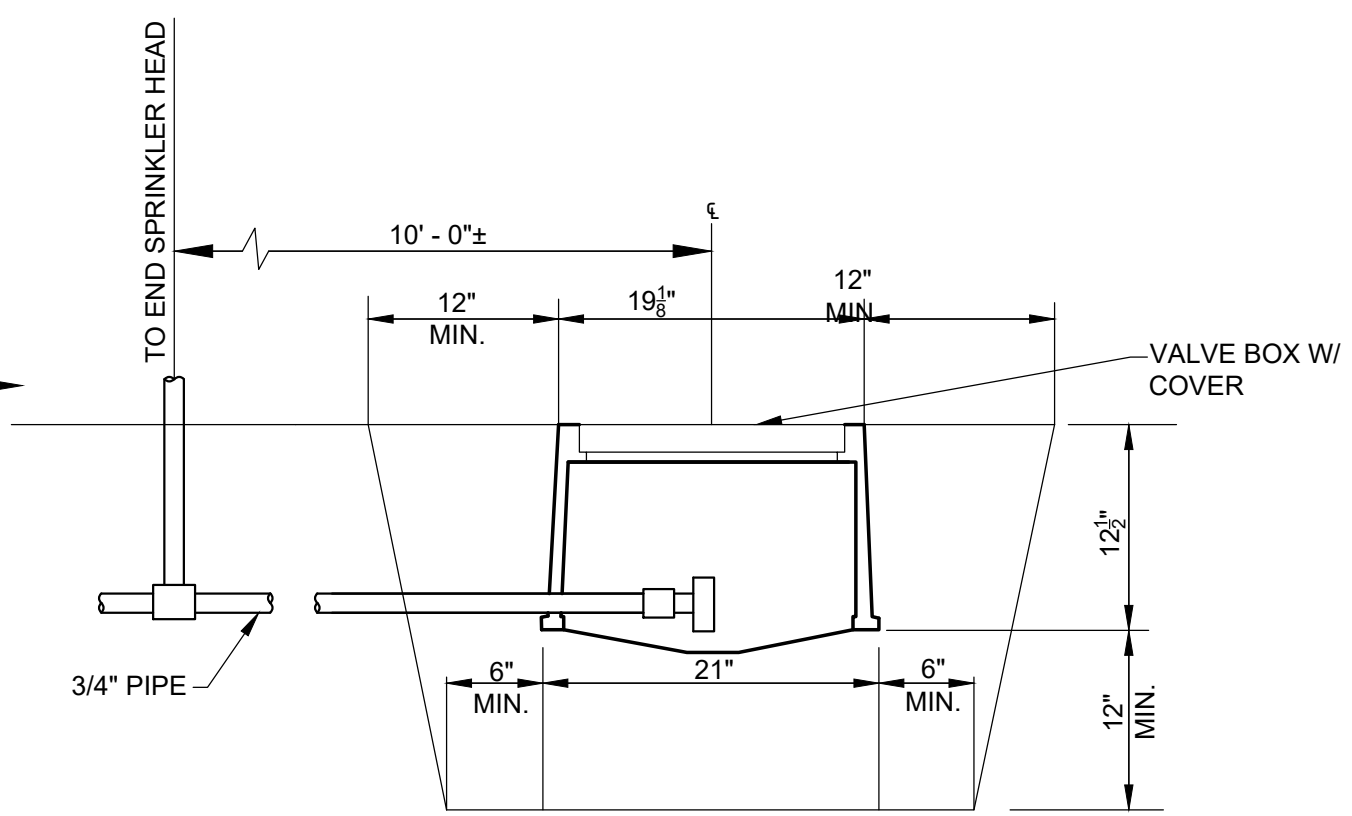
N - 3 & N - 4 VALVE BOX SECTION
SCALE: 1/2" = 1' - 0"



ZONE HIGH POINT (POINT "0") DETAIL
NTS



SPRINKLER CONNECTION DETAIL
NTS



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

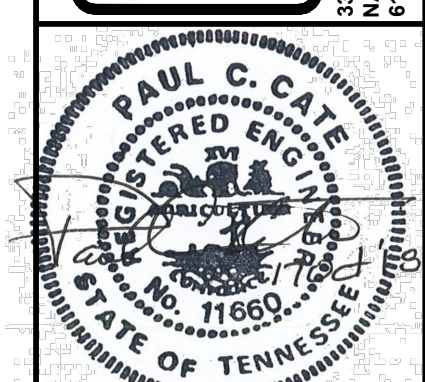
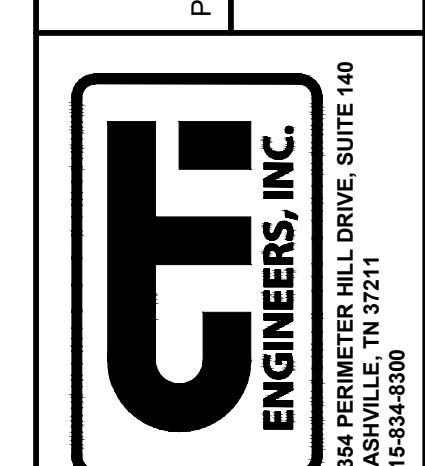
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NO.	REVISIONS	DATE	BY	APPD

DESIGN	DRAWN	CHECKED	APPROVED
NH	JRH	NH	NH

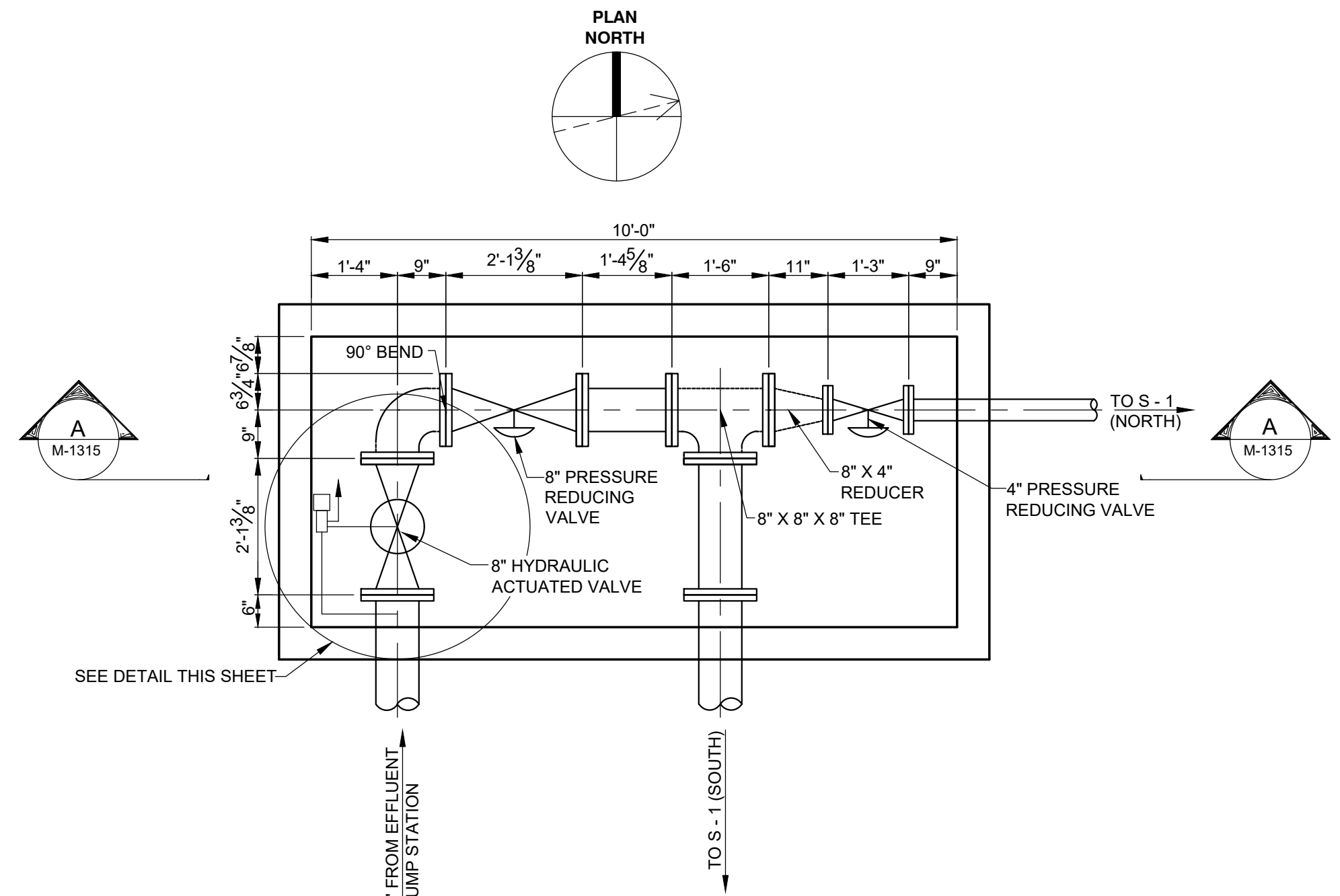
WASTEWATER TREATMENT PLANT EXPANSION
BLEDSOE COUNTY CORRECTIONAL COMPLEX
PIKEVILLE, BLED SOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06

CONTROL VALVE BOX
ZONE N - 1 - N - 4
PLAN, SECTIONS, AND DETAILS

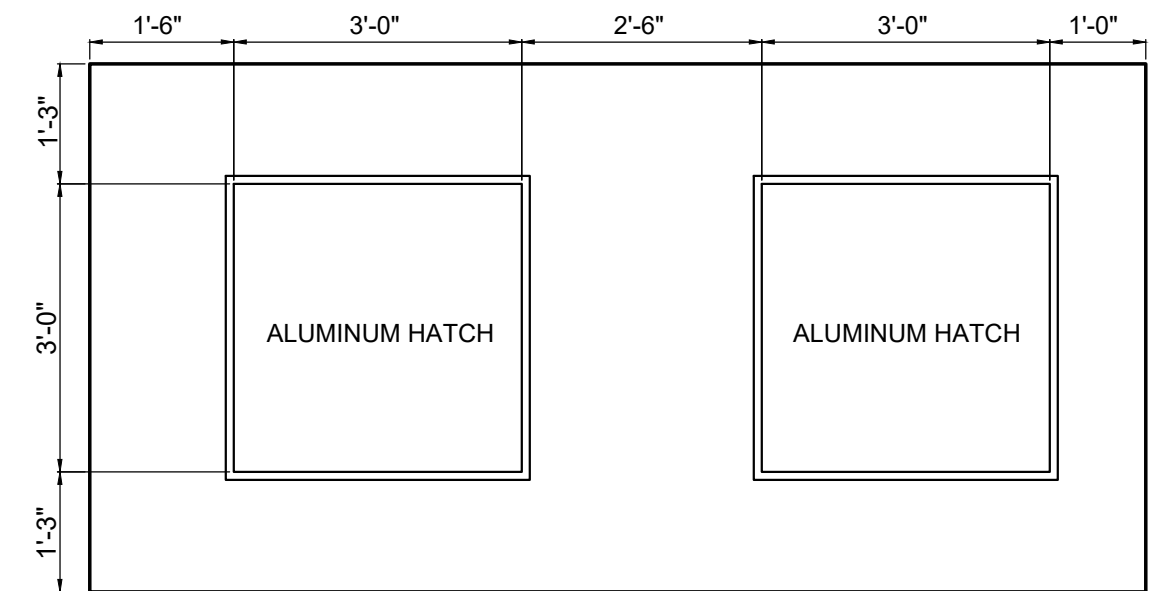


JOB NO.
N16003
ISSUE DATE
July, 2018
SCALE
1/2" = 1' - 0"
DRAWING NO.
M-1314

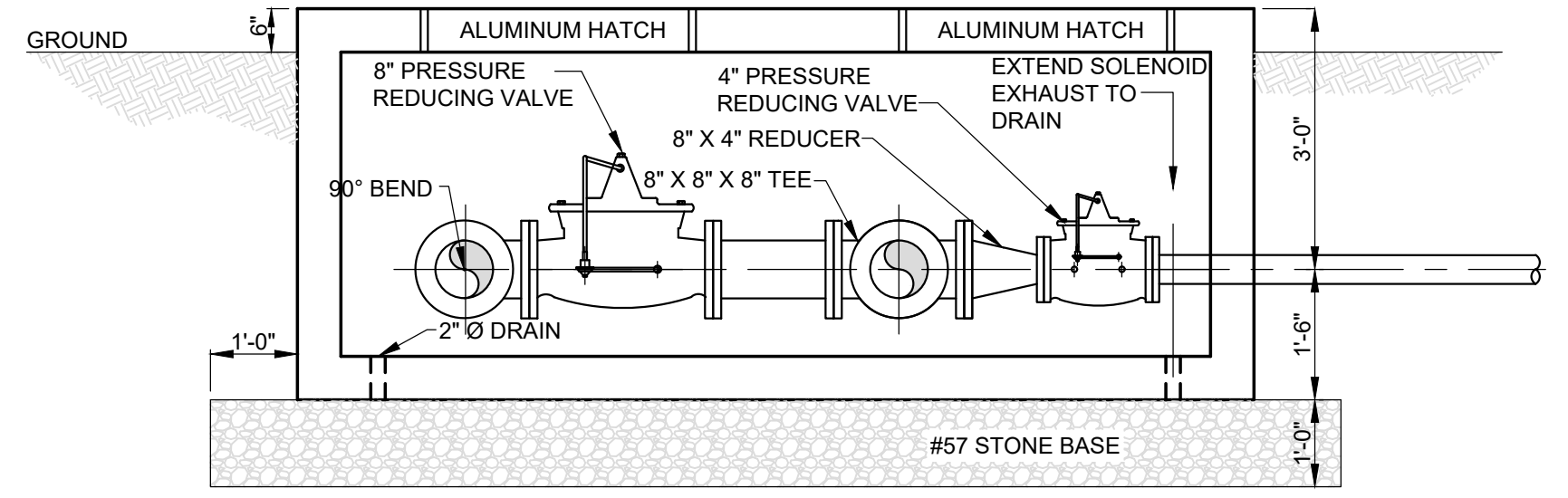
CTI PROJECT: N16003-01 (TN Dept. General Services TDEC) Bledsoe County Correctional Complex DRAWING: CTI - M-1315 S-1 - S-8 SPRAY FIELD VALVE BOX PLAN & SECTION (56323147/10/16/18 9:55AM) LAYOUT: ZONE S-1 - S-7
 DATE OF PRINT: 10/17/2018 12:59 PM



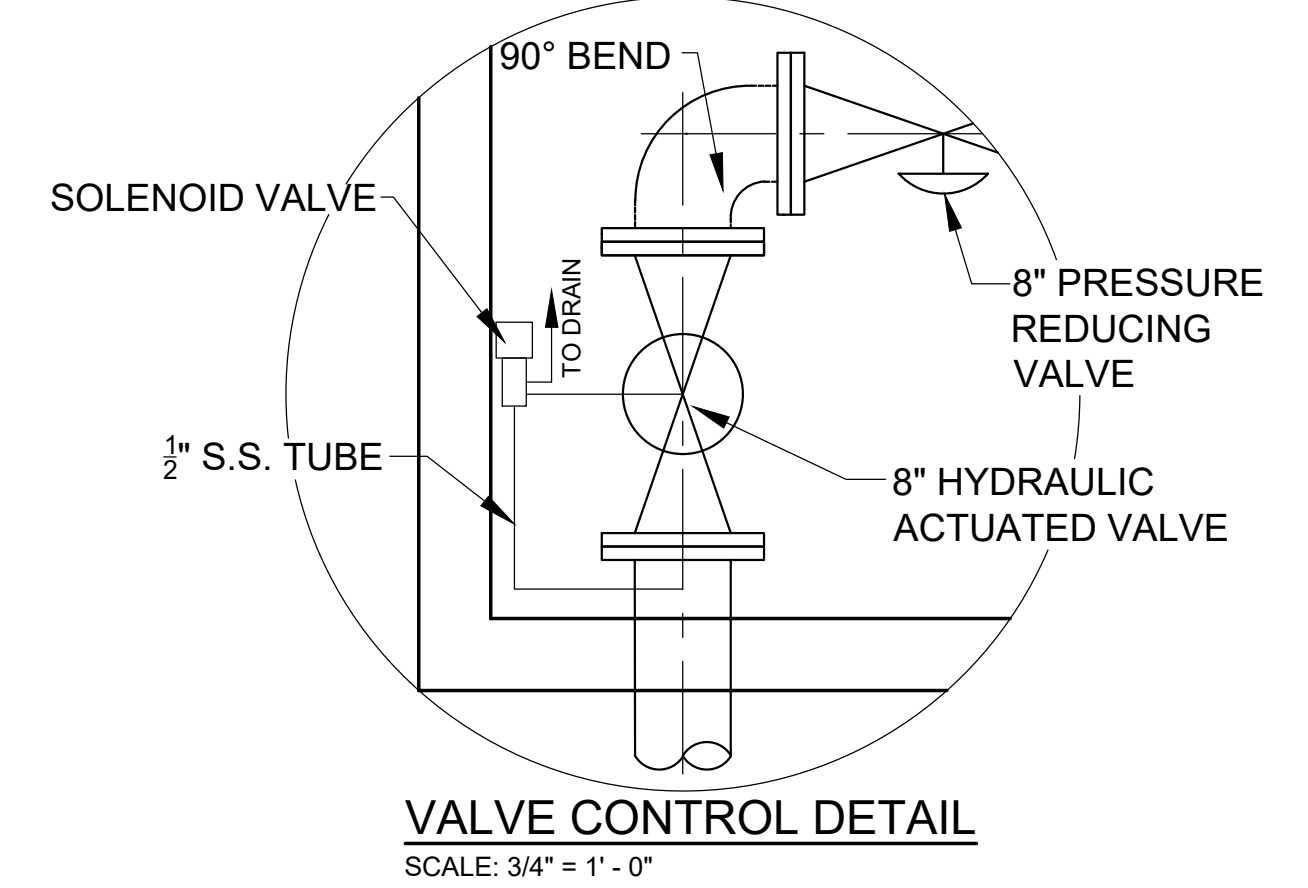
S - 1 VALVE BOX PLAN
SCALE: 1/2" = 1' - 0"



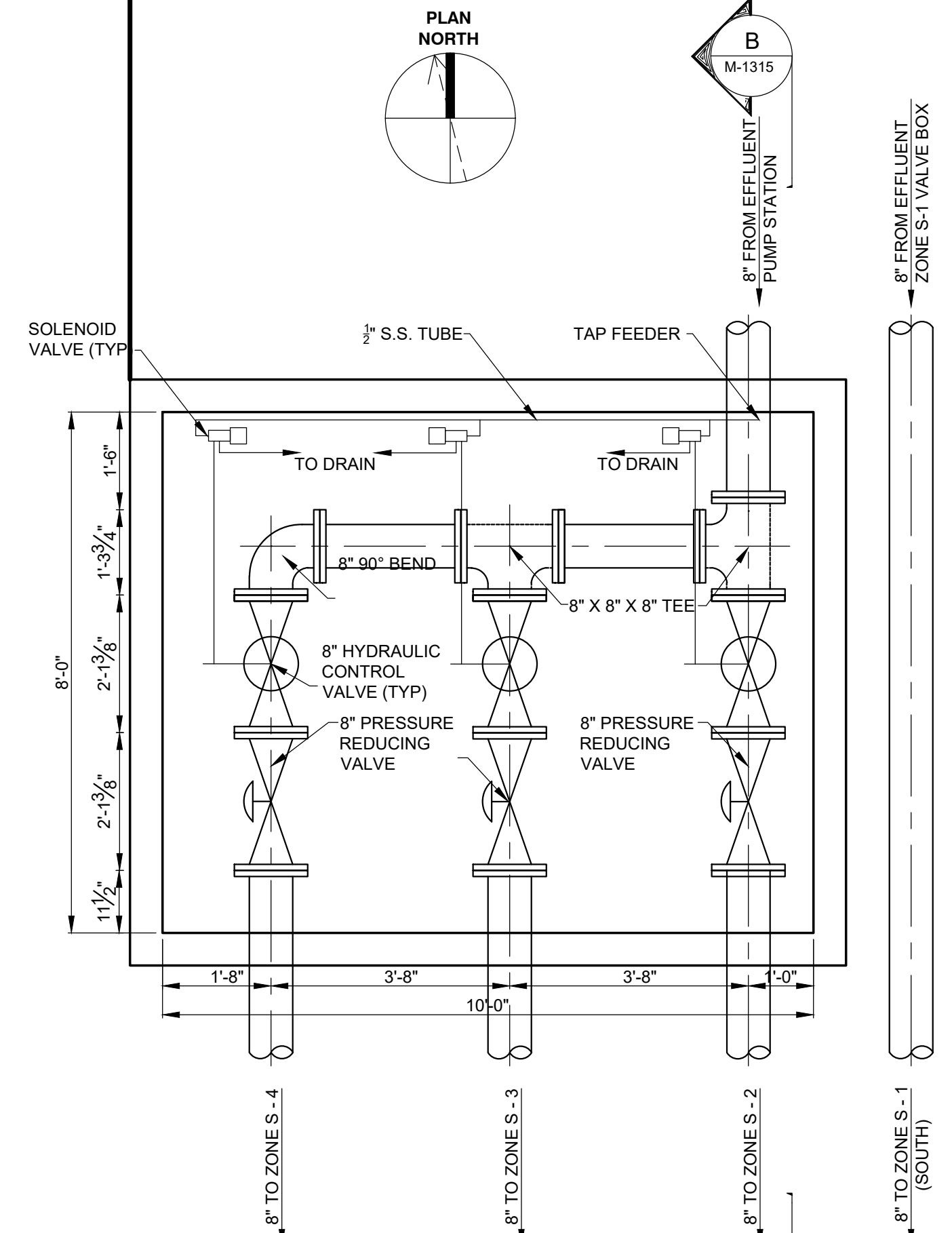
S - 1 VALVE BOX TOP PLAN
SCALE: 1/2" = 1' - 0"



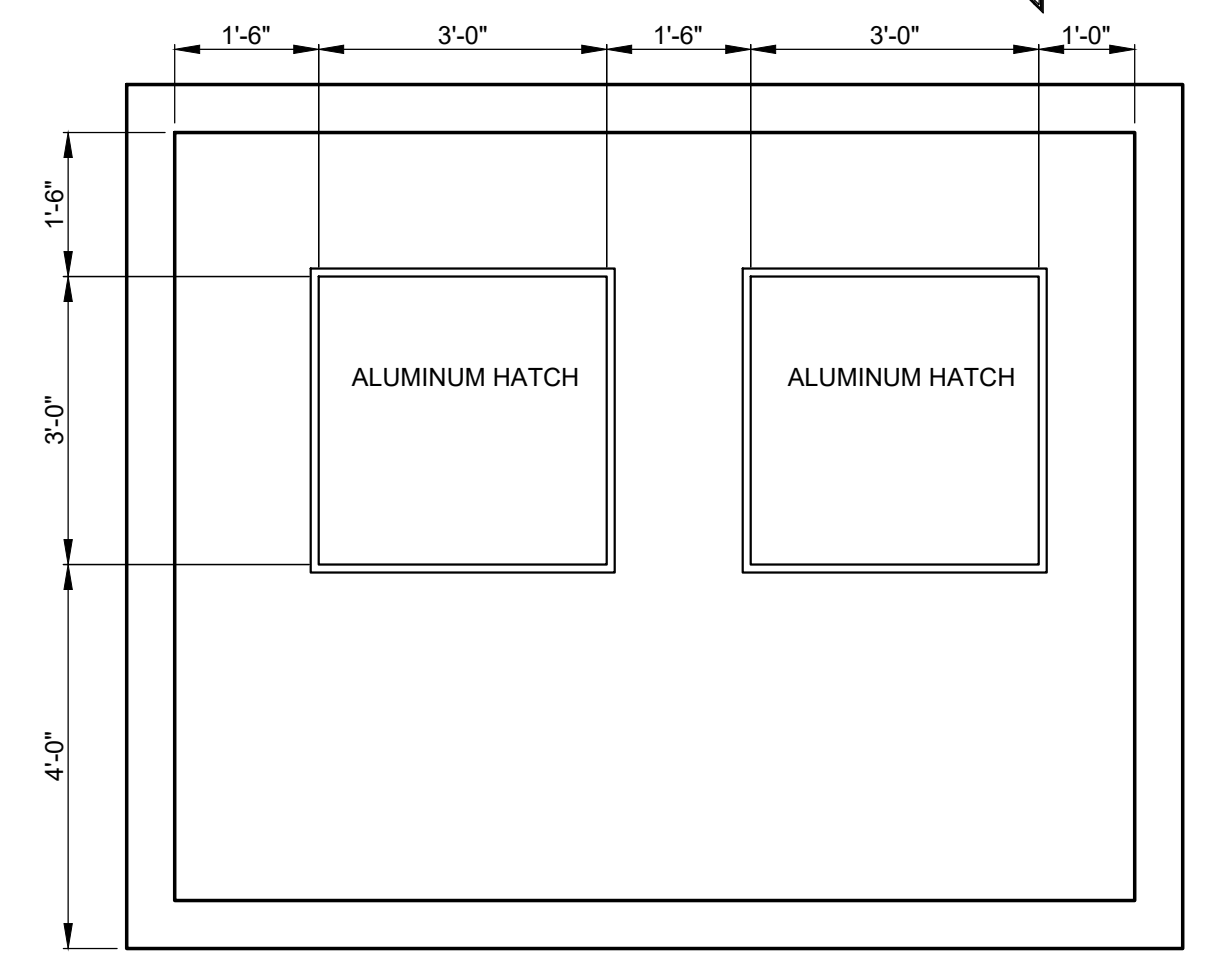
S - 1 VALVE BOX SECTION
SCALE: 1/2" = 1' - 0"



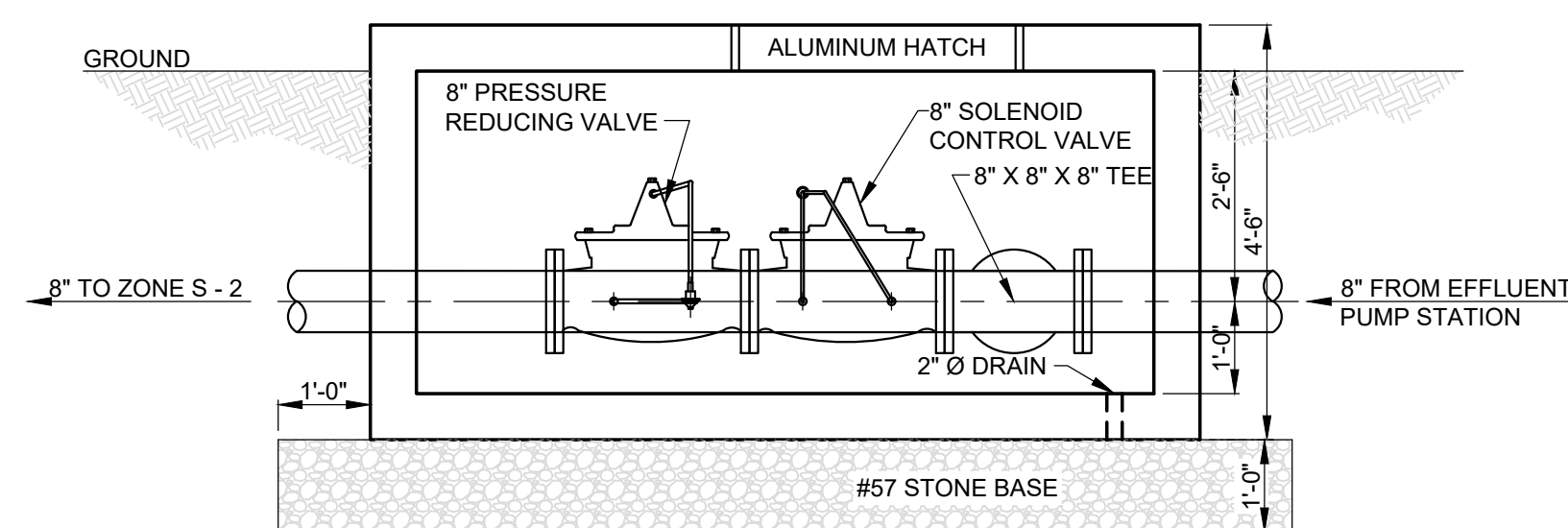
VALVE CONTROL DETAIL
SCALE: 3/4" = 1' - 0"



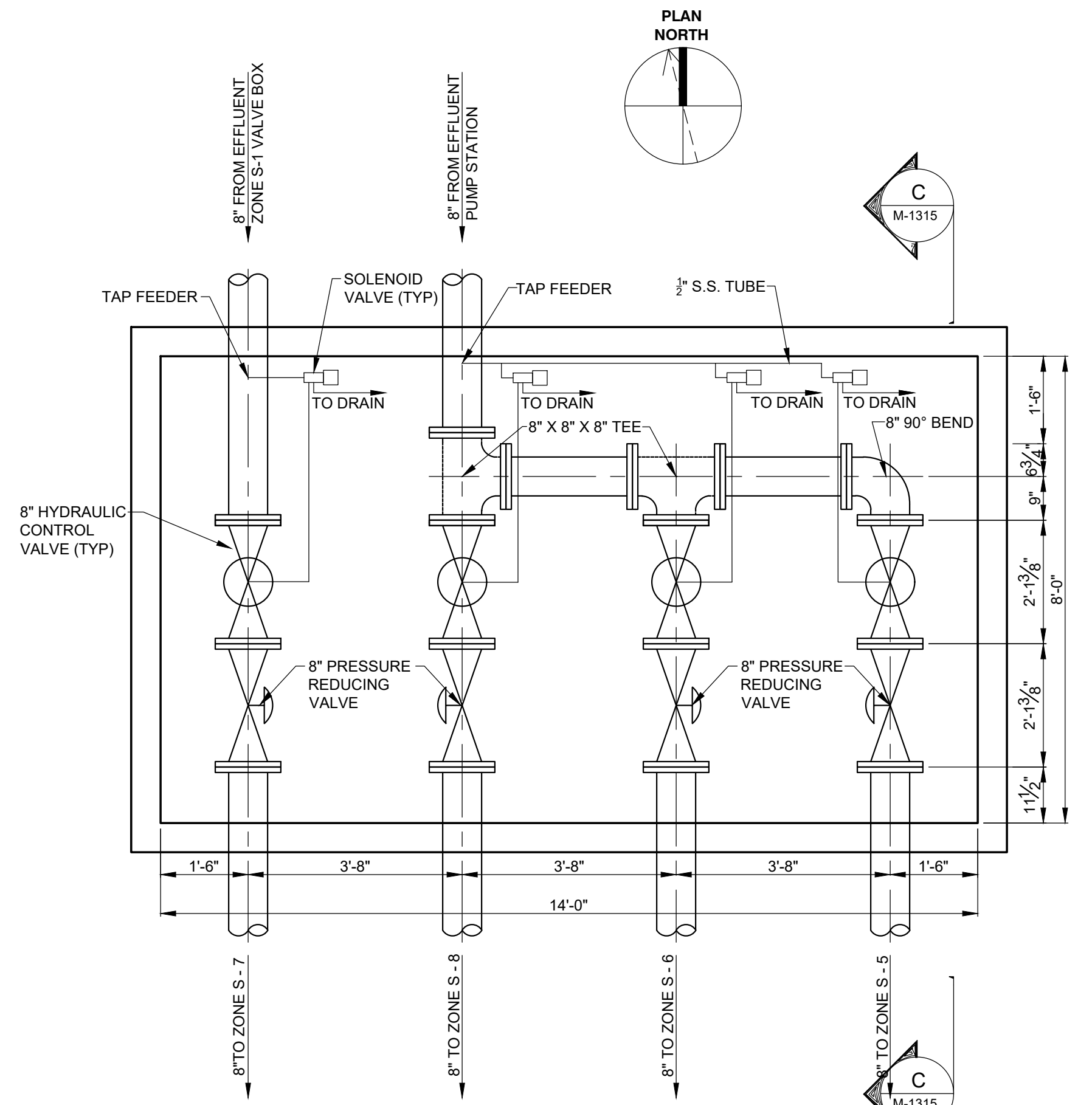
S - 2, S - 3, S - 4 VALVE BOX PLAN
SCALE: 1/2" = 1' - 0"



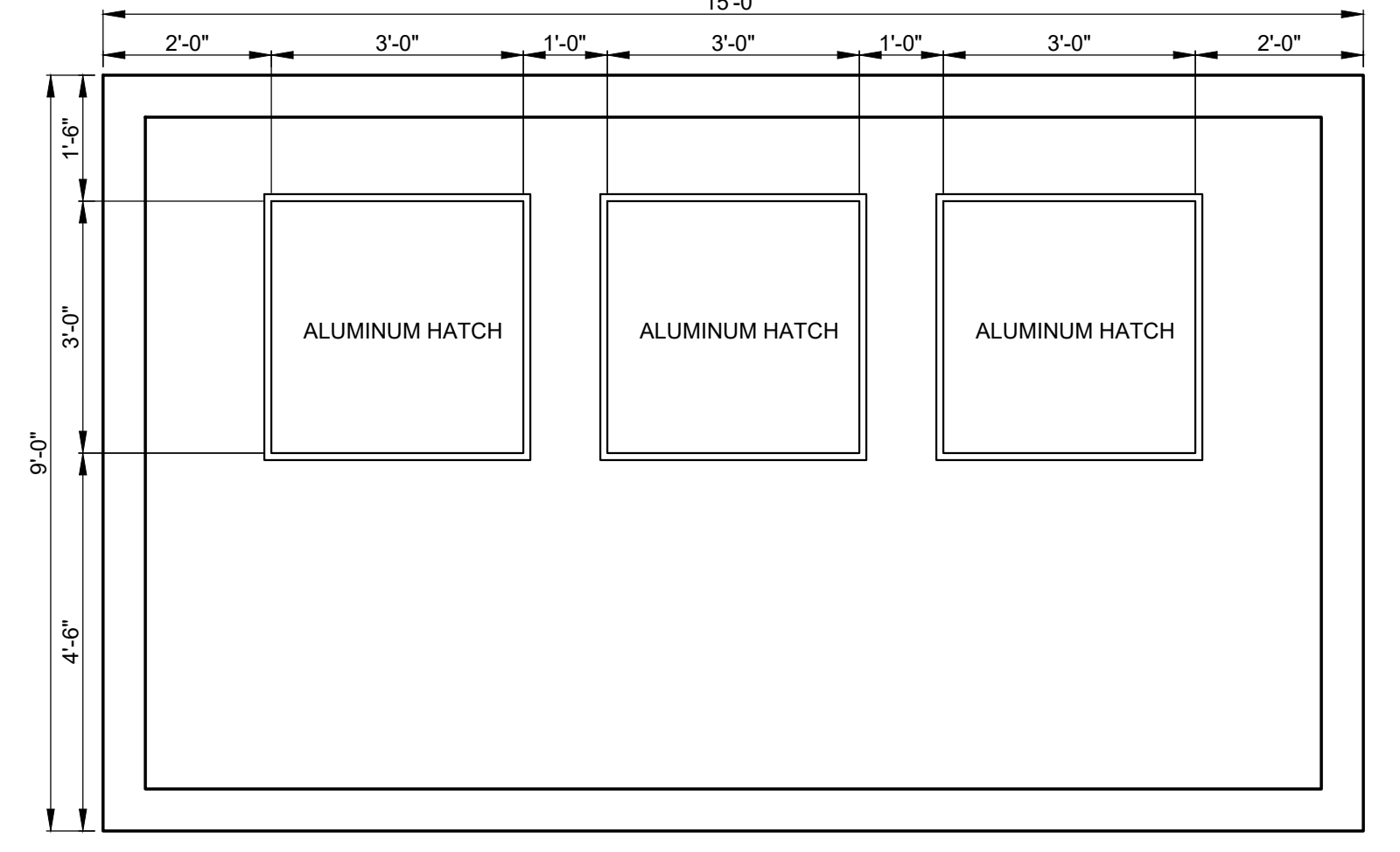
S - 2, S - 3, S - 4 VALVE BOX TOP PLAN
SCALE: 1/2" = 1' - 0"



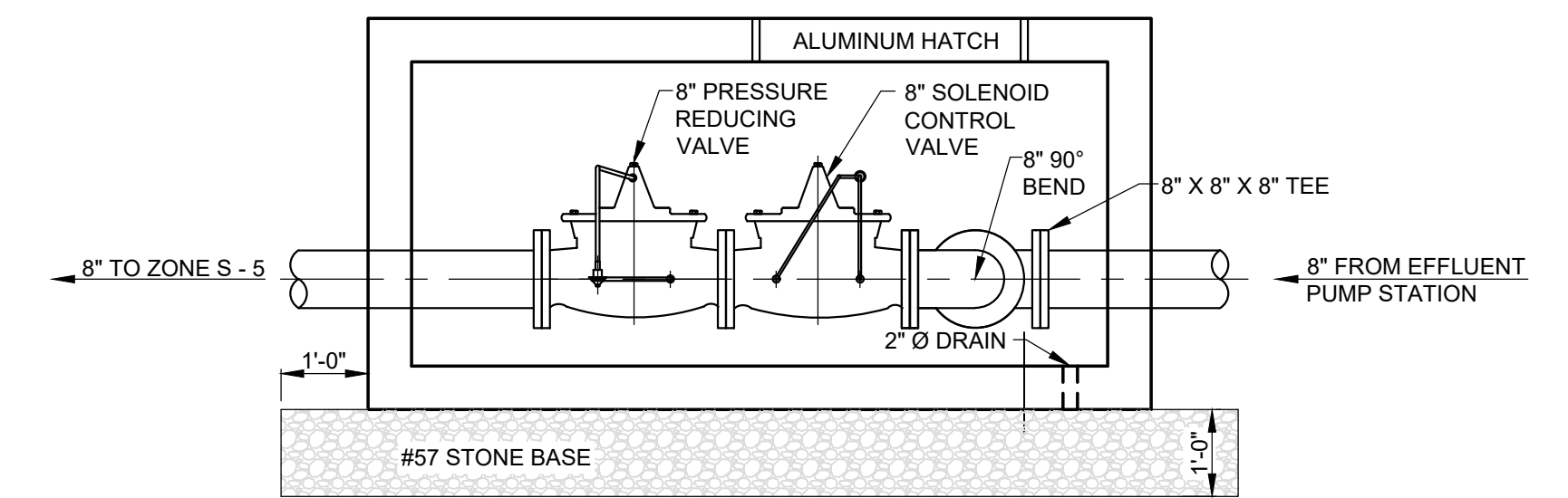
S - 2, S - 3, S - 4 VALVE BOX SECTION
SCALE: 1/2" = 1' - 0"



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"



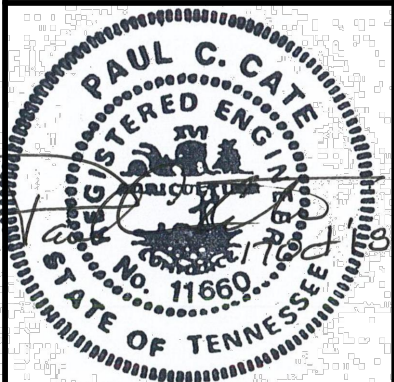
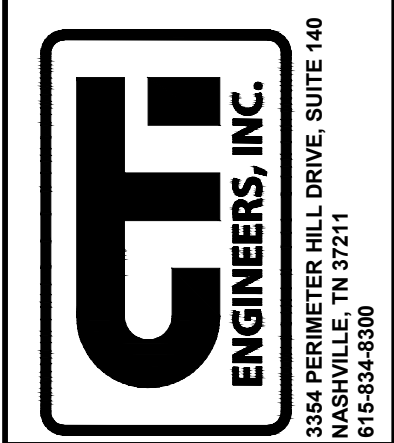
S - 5, S - 6, S - 7, S - 8 VALVE BOX SECTION
SCALE: 1/2" = 1' - 0"

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NO.	REVISIONS	DATE	BY	APPD

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NH	JRH	NH	NH

WASTEWATER TREATMENT PLANT EXPANSION
BLEDSOE COUNTY CORRECTIONAL COMPLEX
 PIKEVILLE, BLEDSOE COUNTY, TENNESSEE SBC PROJECT 142/013-01-2013-06
PROPOSED ZONE S-1 - S-7
CONTROL VALVE BOX PLAN AND SECTIONS



JOB NO.	N16003
ISSUE DATE	July, 2018
SCALE	1/2" = 1' - 0"
DRAWING NO.	M-1315