

# FCWS - TRILITH STUDIOS ELEVATED WATER STORAGE TANK

ISSUED FOR BID  
SEPTEMBER 2023

OWNER:



ENGINEER OF RECORD

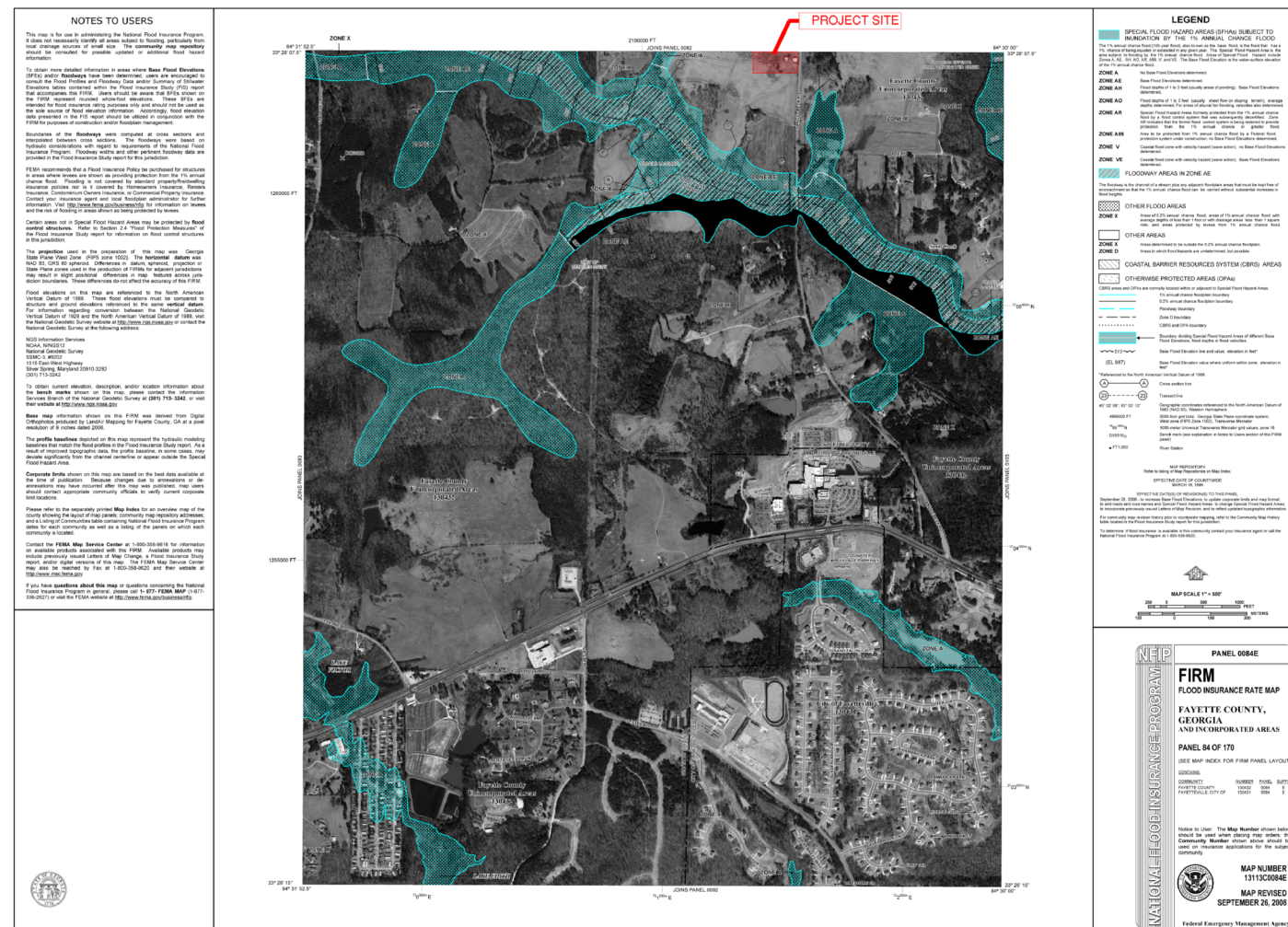
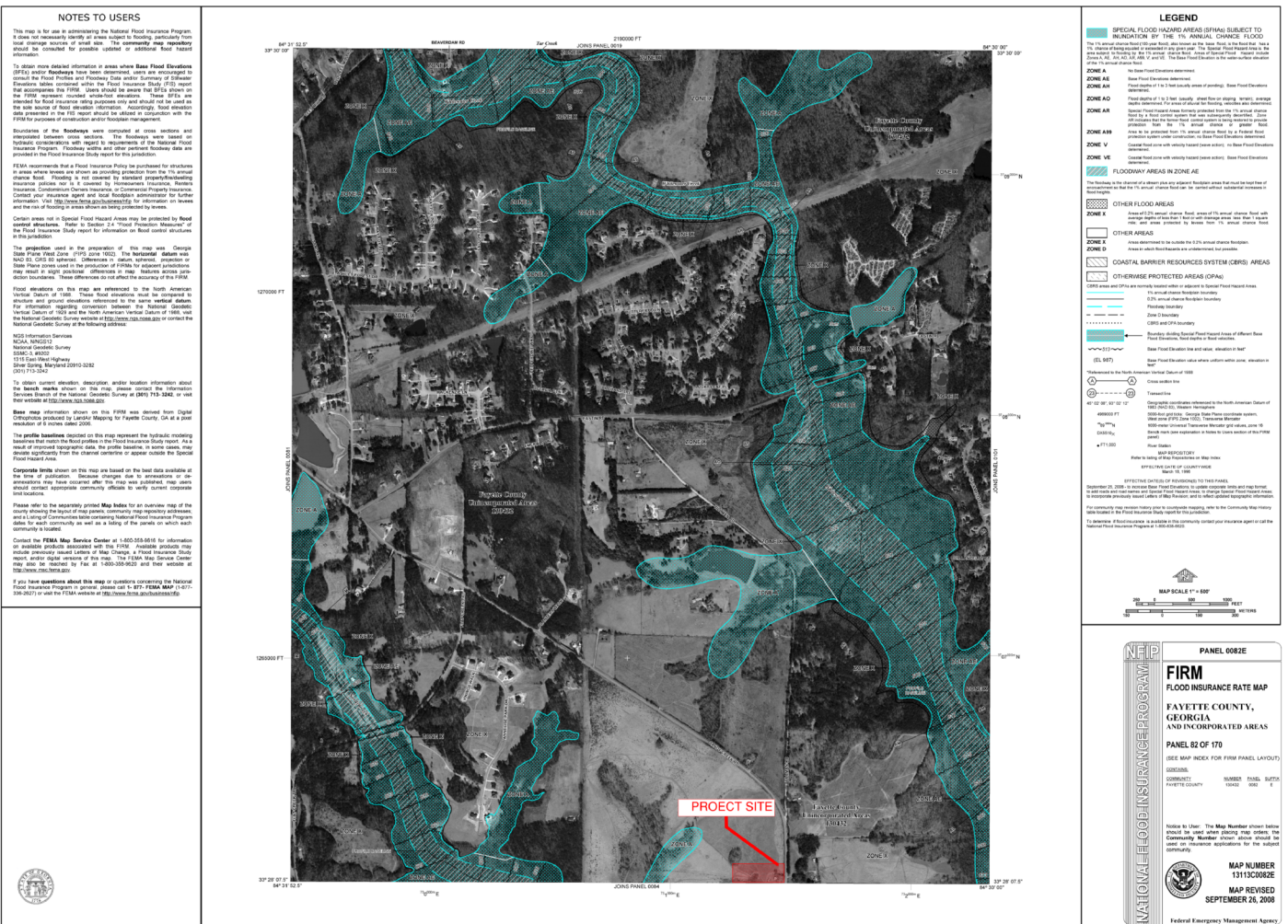
LEGAL ENTITY: ARCADIS-U.S., INC.



2839 PACES FERRY ROAD, SUITE 400, ATLANTA, GA 30339-3769 TEL: 770-431-8666 FAX: 770-435-2666  
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## PROJECT DESCRIPTION

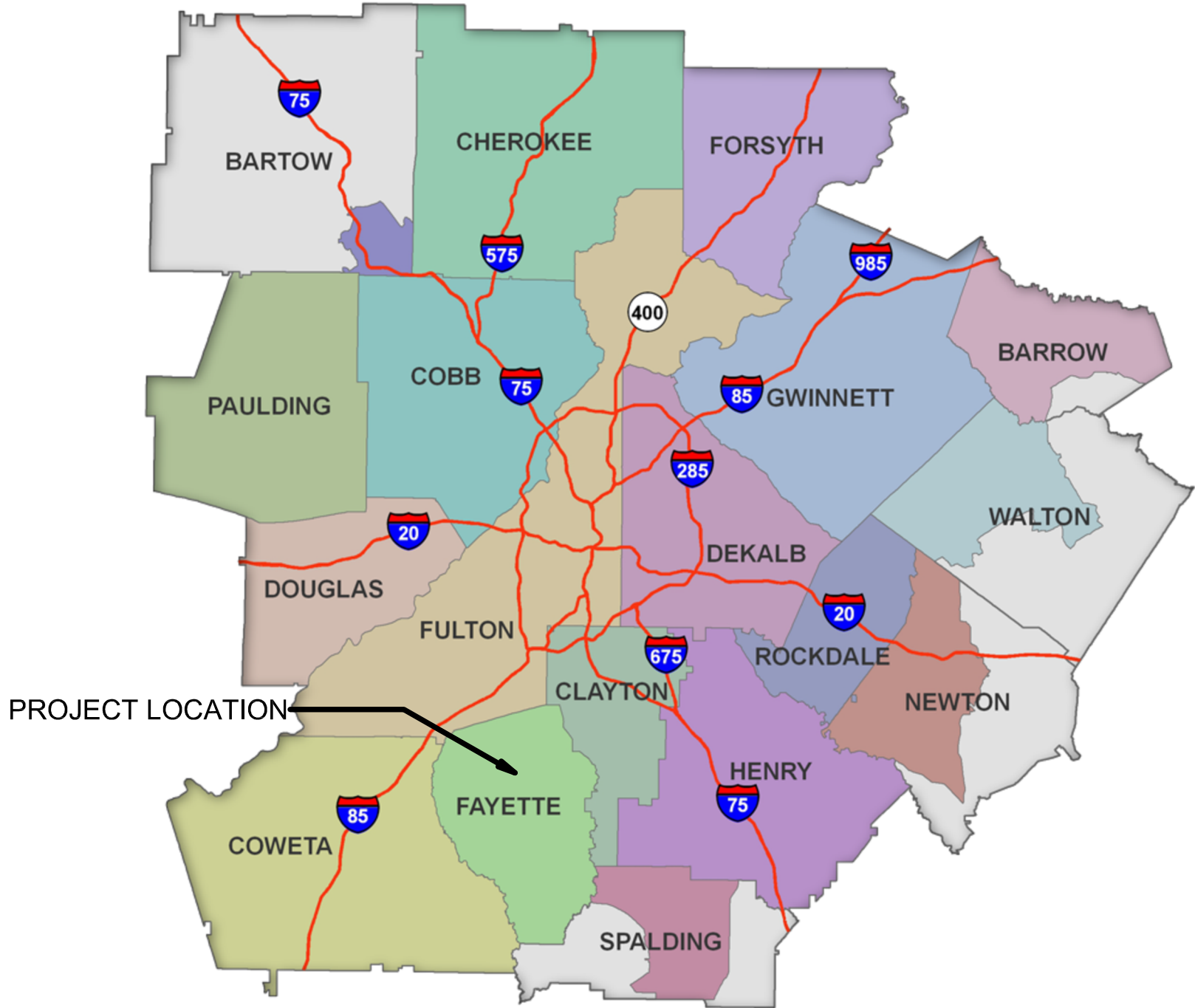
THE TRILITH STUDIO IMPROVEMENT PROJECT INCLUDES THE CONSTRUCTION OF WATER TANK, AND ACCESS ROAD. THE EXISTING TRILITH STUDIOS SITE IS A MOVIE PRODUCTION CAMPUS THAT HAS MULTIPLE STAGE BUILDINGS FOR PRODUCTION. THE PROJECT AREA FOR THE WATER TANK IS ON AN EXISTING GRASSED HILL ADJACENT TO THE CEMETERY NEAR AN ENTRANCE OF THE TRILITH CAMPUS.



**PRIMARY PERMITTEE & 24-HOUR CONTACT:**  
VANESSA TIGERT  
FAYETTE COUNTY WATER SYSTEM  
ADDRESS: 245 MCDONOUGH RD.  
FAYETTEVILLE, GA 30214  
PHONE: 770-320-6016  
EMAIL: VTIGERT@FAYETTECOUNTYGA.GOV



ARCADIS ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS (HORIZONTAL AND VERTICAL). THE EXISTING UTILITIES SHOWN ON THESE DRAWINGS HAVE BEEN PLOTTED FROM THE BEST AVAILABLE INFORMATION. IT IS, HOWEVER, THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES.



VICINITY MAP  
NOT TO SCALE



LOCATION MAP  
NOT TO SCALE



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2839 PACES FERRY ROAD  
SUITE 900 ATLANTA, GA 30339  
TEL: 770-431-8666  
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CONSULTANTS

SEALS

FAYETTE COUNTY, GEORGIA  
FAYETTE COUNTY WATER SYSTEM



FCWS-TRILITH STUDIOS  
ELEVATED WATER STORAGE TANK

400 VETERANS PARKWAY,  
FAYETTEVILLE, GA 30214,  
UNITED STATES

REVISIONS

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2023

PROJECT STATUS: ISSUE FOR CONSTRUCTION

PROJECT NO.: 30135792  
DATE: 09/13/2023  
FILE NAME: G-01  
DESIGNED BY: T. THOMAS  
DRAWN BY: N. NIA  
CHECKED BY: H. GILES

SHEET TITLE

GENERAL

COVER SHEET AND  
SITE LOCATION

SCALE:

NTS

G-01

SHEET 1 OF 23

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DRAWING INDEX				
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02	G - 02	DRAWING INDEX		
	CIVIL			
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21	M - 02	ELEVATED STORAGE TANK PLAN		
22	M - 03	ELEVATED STORAGE TANK SECTIONS		
23	M - 04	MECHANICAL DETAILS		

[illegible]

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GENERAL NOTES

1. THE CONTRACTOR SHALL FURNISH ALL MATERIALS FOR, AND PROPERLY RESTORE ALL PAVEMENT, DRIVES, SIDEWALK, AND CURBS, WHICH MAY HAVE BEEN DAMAGED, REMOVED OR DISTURBED AS RESULT OF ACCOMPLISHING THE WORK.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING GRADES AND DIMENSIONS AND NOTIFYING THE ENGINEER IN ADVANCE AND IN WRITING OF ANY DISCREPANCIES PRIOR TO PERFORMING ANY WORK.
3. EXISTING UTILITY LOCATIONS SHOWN ARE BASED ON SURFACE OBSERVATION AND LIMITED DETECTION SERVICES. NOT ALL EXISTING UTILITIES ARE SHOWN ON THE DRAWING. CONTRACTOR IS RESPONSIBLE FOR DETERMINING BOTH THE EXACT LOCATION OF ALL EXISTING UTILITIES AND FOR DETERMINING THEIR PROTECTION DURING CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL OPERATIONS WITH ALL UTILITIES WHICH MAY BE IN CONFLICT WITH HIS WORK.
4. A COPY OF THE APPROVED SET OF CONSTRUCTION PLANS MUST BE ON THE JOBSITE AT ALL TIMES DURING CONSTRUCTION.
5. ALL EROSION AND SEDIMENTATION CONTROLS AND TREE PROTECTION SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBANCE ACTIVITY.
6. UNLESS NOTED OTHERWISE ALL CONSTRUCTION SHALL CONFORM TO THE FAYETTE COUNTY AND STATE OF GEORGIA STANDARDS AND SPECIFICATIONS.
7. WHERE SHOWN ON DRAWINGS ALL SUBSURFACE TOPOGRAPHICAL FEATURES WHICH INCLUDE GROUND WATER TABLE, PARTIALLY WEATHERED ROCK, AND ROCK SHOWN ARE APPROXIMATE. THE CONTRACTOR AT HIS EXPENSE SHALL CONDUCT ADDITIONAL SUBSURFACE SOIL EXPLORATION IF DEEMED NECESSARY.
8. THE CONTRACTOR SHALL COORDINATE, OBTAIN APPROVAL AND PROVIDE TEMPORARY TRAFFIC ROUTING PLANS PRIOR TO ANY LANE CLOSURES WITH THE FAYETTE COUNTY.
9. ALL WORK AROUND THE EXISTING UTILITIES AND UTILITY STRUCTURES WHETHER ABOVE OR BELOW GROUND SHALL BE PERFORMED IN A MANNER THAT WILL AVOID DAMAGE TO THE UTILITIES AND STRUCTURES. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL ACCURATELY LOCATE ABOVE AND BELOW UTILITIES WHICH MAY BE AFFECTED BY THE WORK AND PROTECT ALL UTILITIES NOT DESIGNATED FOR REMOVAL, RESTORATION, OR REPLACEMENT IN THE COURSE OF CONSTRUCTION. PROVIDE 72 HOURS OF ADVANCE NOTICE TO THE UTILITY OWNER AND FAYETTE COUNTY PRIOR TO BEGINNING CONSTRUCTION IN THE VICINITY OF THE EXISTING UTILITIES. FOR EXISTING UTILITY LOCATION ASSISTANCE CALL THE UNDERGROUND UTILITIES PROTECTION CENTER (GA 811).
10. ANY DAMAGE TO EXISTING UTILITIES CAUSED BY THE CONTRACTOR, CONTRACTOR'S CREW AND/OR EQUIPMENT SHALL BE THE CONTRACTOR'S COST AND RESPONSIBILITY TO REPLACE PER OWNER'S STANDARDS AND SPECIFICATIONS.
11. THE REFUSE RESULTING FROM THE CLEARING AND GRUBBING OPERATION SHALL BE HAULED TO A DISPOSAL SITE SECURED BY THE CONTRACTOR AND SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL REQUIREMENTS OF FEDERAL, STATE, COUNTY AND MUNICIPAL REGULATIONS. NO DEBRIS OF ANY KIND SHALL BE DEPOSITED IN ANY STREAM OR BODY OF WATER, OR IN ANY STREET OR ALLEY. NO DEBRIS SHALL BE DEPOSITED UPON ANY PRIVATE PROPERTY EXCEPT BY WRITTEN CONSENT OF THE PROPERTY OWNER. IN NO CASE SHALL ANY MATERIAL BE LEFT ON THE PROJECT, SHOVED ONTO ADJUTING PRIVATE PROPERTIES, OR BE BURIED IN THE EMBANKMENTS OR TRENCHES ON THE PROJECT.
12. FINISHED GRADING OF THE DISTURBED AREA SHALL BE ACCORDING TO CIVIL DRAWINGS. NO STANDING WATER OR PONDING OF ANY KIND IS ALLOWED. ALL DISTURBED AREA SHALL BE IMMEDIATELY GRASSED.
13. THE CONTRACTOR SHALL COMPLY WITH THE STATE OF GEORGIA MANUAL FOR EROSION AND SEDIMENT CONTROL STANDARDS, LATEST EDITION.
14. IN THE EVENT ACTIVE UTILITY SERVICES REQUIRE INTERRUPTION, THE CONTRACTORS SHALL COORDINATE AND CONSULT WITH THE OWNER OR/OWNERS AND OBTAIN APPROVAL FROM THEM PRIOR TO SERVICES BEING DISRUPTED.
15. THE CONTRACTOR SHALL ALL TIMES CONTROL DUST AND DEBRIS FROM THE OPERATIONS TO A LEVEL ACCEPTABLE TO FAYETTE COUNTY AND LOCAL BUSINESSES AT ALL TIMES.
16. ALL UTILITY WORK WITHIN THE FAYETTE COUNTY RIGHT OF WAY SHALL BE PERFORMED IN ACCORDANCE TO WHITFIELD COUNTY STANDARDS AND SPECIFICATIONS, LATEST EDITION. WORK ON THE SITE SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS.
17. TEMPORARY DISCONNECTION, REMOVAL AND/OR REPLACEMENT OF THE FOLLOWING ITEMS BUT NOT LIMITED TO, FIRE HYDRANTS, WATER METERS, BACK FLOW PREVENTION DEVICES, VAULTS, MANHOLE AND OTHER POTABLE WATER SYSTEM APPURTENANCES. ASSOCIATED APPURTENANCES SHALL BE IN STRICT ACCORDANCE WITH THE LATEST FAYETTE COUNTY STANDARDS AND SPECIFICATIONS. BEFORE CONNECTION, REMOVAL AND/OR REPLACEMENT OF ANY UTILITIES, THE CONTRACTOR SHALL CONTACT AND OBTAIN APPROVAL FROM FAYETTE COUNTY PUBLIC WORKS REPRESENTATIVES PRIOR TO CONSTRUCTION.
18. THE CONTRACTOR SHALL CONTACT AND COORDINATE WITH FAYETTE COUNTY OR LOCAL AUTHORITY FIRE MARSHAL PRIOR TO REMOVING ANY FIRE HYDRANTS OR ANY FIRE PROTECTION UTILITIES. ANY WORK OR MATERIALS REQUIRED BY THE FIRE MARSHAL TO TEMPORARILY PROVIDE FOR FIRE PROTECTION TO THE LOCAL BUSINESS SHALL BE PART OF THE CONTRACTOR'S SCOPE OF WORK. "OUT-OF-SERVICE RINGS" WILL BE REQUIRED FOR HYDRANTS WHILE OUT OF SERVICE.
19. ALL EXCAVATION SHALL BE ADEQUATELY SHORED TO ENSURE WORKER SAFETY. ALL PIPE LAYING OPERATIONS SHALL COMPLY WITH OSHA REQUIREMENTS FOR TRENCH SAFETY.
20. MAINTENANCE AND TRAFFIC: THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL ROAD PERMITS FROM FAYETTE COUNTY INCLUDING PROVIDING ANY RESTORATION BONDS. THE CONTRACTOR SHALL PROVIDE A DETAILED PHASED TRAFFIC CONTROL PLAN BASED ON THE PROPOSED WORK PHASING AS DETERMINED BY THE CONTRACTOR.
21. 72 HOURS NOTICE IS REQUIRED TO GEORGIA 811 UTILITY PROTECTION CENTER BEFORE ANY PLANNED DIGGING. <http://www.georgia811.com>

STAKING NOTES

1. THE EXISTING TRILITH STUDIOS ENTRANCE AREA SHOWN IS BASED ON THE PROPOSED DESIGN BY OTHERS.
2. ALL UNDERGROUND UTILITY LOCATIONS SHOWN ARE BASED ON SURVEY. ALL UTILITY LOCATIONS SHOULD BE CONSIDERED APPROXIMATE AND THE CONTRACTOR SHALL FIELD VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION AND FABRICATION. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE RESULTING FROM THIS WORK.

GRADING NOTES:

1. CONTRACTOR SHALL NOT PERMIT EQUIPMENT TO BE USED IN SUCH A MANNER AS TO CAUSE EQUIPMENT TO EXCESSIVELY BUMP OR RUT THE SUBGRADE OR OTHER PREPARED AREAS.
2. CONTRACTOR SHALL GRADE IN A MANNER TO ESTABLISH LONG SMOOTH GRADIENTS IN ORDER TO REDUCE ABRUPT CHANGES, DIPS AND SHARP TRANSITIONS IN THE FINISHED GRADE.
3. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE POSITIVE DRAINAGE ON GRADED SURFACE AREAS AT 1% MINIMUM ON HARDSCAPE AT 2% MINIMUM ON GRADE UNLESS OTHERWISE INDICATED.
4. ANY REQUIRED DETENTION FACILITIES AND EROSION CONTROL MEASURES ARE TO BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION ON THE SITE AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
5. ELEVATIONS GIVEN ARE TO FINISH GRADE UNLESS OTHERWISE SHOWN.
6. SLOPE UNIFORMLY BETWEEN CONTOURS AND SPOT ELEVATIONS SHOWN.
7. UNLESS SHOWN ON THE EROSION & SEDIMENT CONTROL PLANS AND / OR LANDSCAPING PLANS, ALL DISTURBED AREAS NOT RECEIVING A SURFACE SHALL BE COVERED IN GRASS.
8. GENERALLY TAKE STANDARD PRECAUTIONS TO PROTECT TREES. SEE LANDSCAPE DRAWINGS FOR TREE PROTECTION REQUIREMENTS WHEN APPLICABLE.

PROJECT COMPLETION

1. PRIOR TO ACCEPTANCE AND FINAL PAYMENT, CONTRACTOR IS TO PROVIDE AN AS-BUILT SURVEY, WHICH IS A DRAWING PREPARED AND SIGNED BY A REGISTERED LAND SURVEYOR REGISTERED IN THE STATE OF GEORGIA ILLUSTRATING THE LOCATIONS, DIMENSIONS AND ELEVATIONS OF A DEVELOPMENT AS IT HAS BEEN CONSTRUCTED FOLLOWING COMPLETION OF CONSTRUCTION ON DIRECT FIELD MEASUREMENTS AND SHOWN TO SCALE.

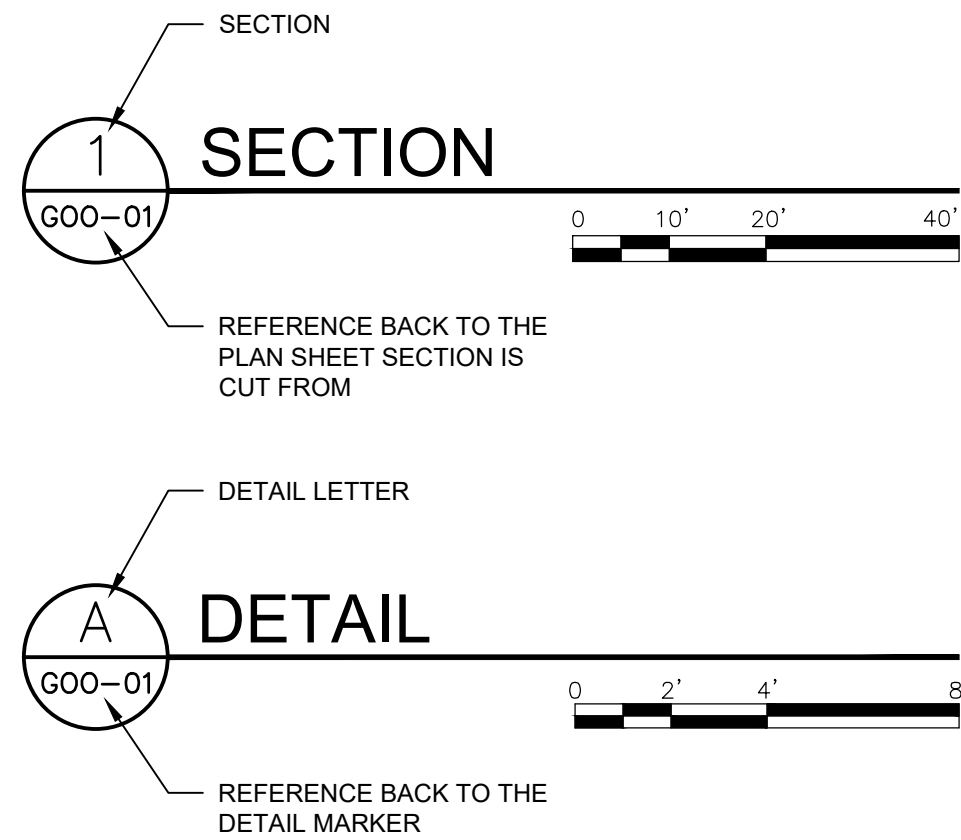
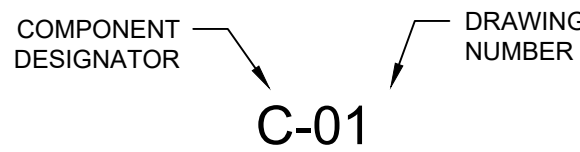
LEGEND & SYMBOLS

---	800	---	EXISTING MAJOR CONTOUR
----	801	----	EXISTING MINOR CONTOUR
---	NYS	---	EXISTING SANITARY SEWER
---	UP	---	EXISTING UNDERGROUND POWER
---	W	---	EXISTING WATER LINE
---	UC	---	EXISTING UNDERGROUND COMMUNICATIONS
---		---	EXISTING STORM SYSTEM
			EXISTING LANDSCAPE
			EXISTING PAVEMENT
			EXISTING CONCRETE
---	800	---	PROPOSED MAJOR CONTOUR
---	801	---	PROPOSED MINOR CONTOUR
---		---	PROPOSED PROPERTY LINE
			PROPOSED GRAVEL
			PROPOSED STORM SYSTEM
---	X	---	PROPOSED SILT FENCE

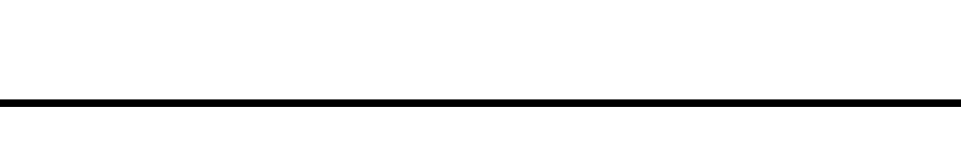
CIVIL ABBREVIATIONS

APPROX.	APPROXIMATE	GRAT.	GRATING
ASPH	ASPHALT	GV	GATE VALVE
BLDG.	BUILDING	HORIZ.	HORIZONTAL
BOC	BOTTOM OF CURB	ID	INSIDE DIAMETER
¢	CENTERLINE	IN, "	INCHES
CB	CATCH BASIN	INF.	INFLUENT
CO	CLEANOUT	INV.	INVERT
CONC.	CONCRETE	JT.	JOINT
CONT.	CONTINUED	LF	LINEAR FOOT/FEET
CPLG.	COUPLING	MAS	MASONRY
CY	CUBIC YARD(S)	MAX.	MAXIMUM
DE	DIATOMACEOUS EARTH	MFR.	MANUFACTURER
DET.	DETAIL	MGD	MILLION GALLONS PER DAY
DI	DROP INLET	MH	MANHOLE
DIP	DUCTILE IRON PIPE	MIN.	MINIMUM
DIA.	DIAMETER	NC	NORMALLY CLOSED
DISCH.	DISCHARGE	NO	NORMALLY OPEN
DWG	DRAWING	NO.	NUMBER
EA.	EACH	OD	OUTSIDE DIAMETER
EFF.	EFFLUENT	PDW	PROCESS DRAIN TO WASTE
EJ	EXPANSION JOINT	PE	POLYETHYLENE
ELEV.	ELEVATION	PG.	PROPOSED GROUND
ELEC.	ELECTRIC	PROP.	PROPOSED
EQ.	EQUAL	PSI	POUNDS PER SQUARE INCH
EXIST.	EXISTING	R	REDUCER
FCV	FLOW CONTROL VALVE	REINF.	REINFORCEMENT OR REINFORCE
FD	FLOOR DRAIN	REQ'D.	REQUIRED
FDN	FOUNDATION	ROW	RIGHT OF WAY
FIN.	FINISHED	SHT.	SHEET
FLEX.	FLEXIBLE	SS	STAINLESS STEEL
FLG	FLANGE	STD.	STANDARD
FLR.	FLOOR	STRUC.	STRUCTURAL
FTG.	FOOTING	TOC	TOP OF CURB
FT.	FEET	THK.	THICK
GRD.	GROUND	TYP.	TYPICAL
		VERT.	VERTICAL
		W/	WITH

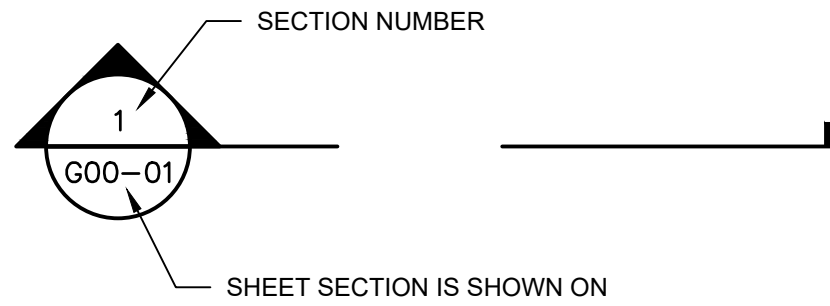
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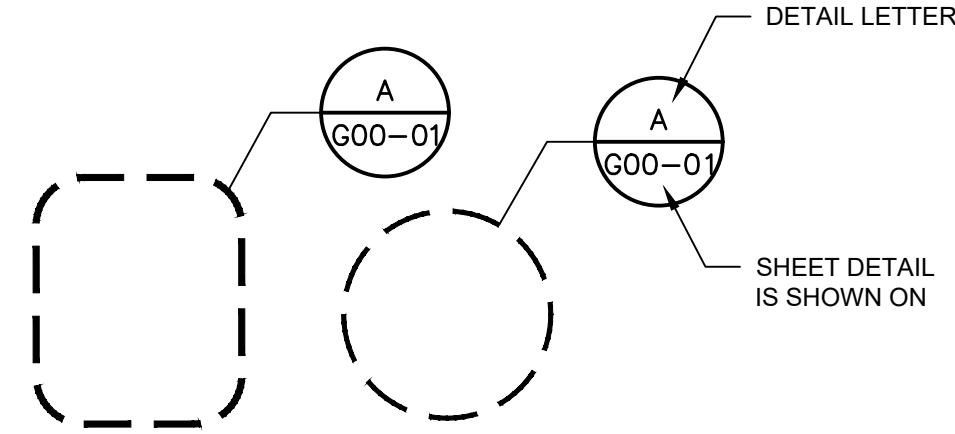
TYPICAL DETAILS



SECTION MARKERS



DETAIL MARKERS



LEGAL ENTITY:  
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CONSULTANTS

SEALS

FAYETTE COUNTY, GEORGIA  
FAYETTE COUNTY WATER  
SYSTEM



FCWS-TRILITH STUDIOS  
ELEVATED WATER  
STORAGE TANK

400 VETERANS PARKWAY  
FAYETTEVILLE, GA 30214

REVISIONS

NO.	DATE	ISSUED FOR	BY
0	09/13/2023	ISSUED FOR BID	TT

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2023

PROJECT STATUS: ISSUE FOR CONSTRUCTION

PROJECT NO.:	30135792
DATE:	09/13/2023
FILE NAME:	C-00
DESIGNED BY:	T. THOMAS
DRAWN BY:	N. NIA
CHECKED BY:	D. WILSON

SHEET TITLE

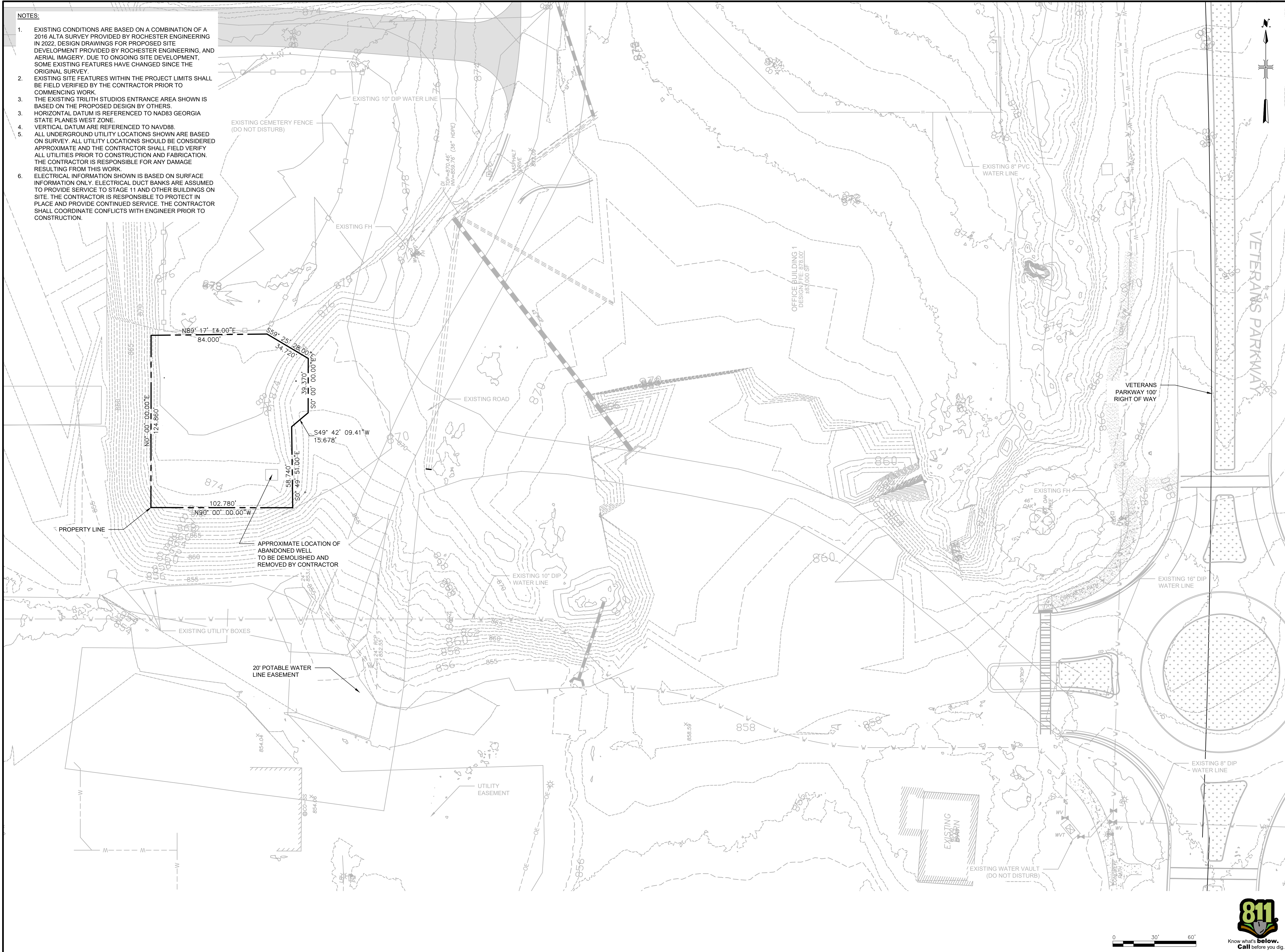
CIVIL

CIVIL NOTES, SYMBOLS,  
& ABBREVIATIONS

SCALE: AS SHOWN

C-00  
SHEET 3 OF 23

- NOTES:
- EXISTING CONDITIONS ARE BASED ON A COMBINATION OF A 2016 ALTA SURVEY PROVIDED BY ROCHESTER ENGINEERING IN 2022, DESIGN DRAWINGS FOR PROPOSED SITE DEVELOPMENT PROVIDED BY ROCHESTER ENGINEERING, AND AERIAL IMAGERY. DUE TO ONGOING SITE DEVELOPMENT, SOME EXISTING FEATURES HAVE CHANGED SINCE THE ORIGINAL SURVEY.
  - EXISTING SITE FEATURES WITHIN THE PROJECT LIMITS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCING WORK.
  - THE EXISTING TRILITH STUDIOS ENTRANCE AREA SHOWN IS BASED ON THE PROPOSED DESIGN BY OTHERS.
  - HORIZONTAL DATUM IS REFERENCED TO NAD83 GEORGIA STATE PLANES WEST ZONE.
  - VERTICAL DATUM ARE REFERENCED TO NAVD88.
  - ALL UNDERGROUND UTILITY LOCATIONS SHOWN ARE BASED ON SURVEY. ALL UTILITY LOCATIONS SHOULD BE CONSIDERED APPROXIMATE AND THE CONTRACTOR SHALL FIELD VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION AND FABRICATION. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE RESULTING FROM THIS WORK.
  - ELECTRICAL INFORMATION SHOWN IS BASED ON SURFACE INFORMATION ONLY. ELECTRICAL DUCT BANKS ARE ASSUMED TO PROVIDE SERVICE TO STAGE 11 AND OTHER BUILDINGS ON SITE. THE CONTRACTOR IS RESPONSIBLE TO PROTECT IN PLACE AND PROVIDE CONTINUED SERVICE. THE CONTRACTOR SHALL COORDINATE CONFLICTS WITH ENGINEER PRIOR TO CONSTRUCTION.



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FAYETTE COUNTY WATER SYSTEM

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PROJECT NO.: 30135792

DATE: 09/13/2023

FILE NAME: C-01

DESIGNED BY: T. THOMAS

DRAWN BY: N. NIA

CHECKED BY: D. WILSON

SHEET TITLE

CIVIL

EXISTING CONDITIONS PLAN

SCALE: AS SHOWN

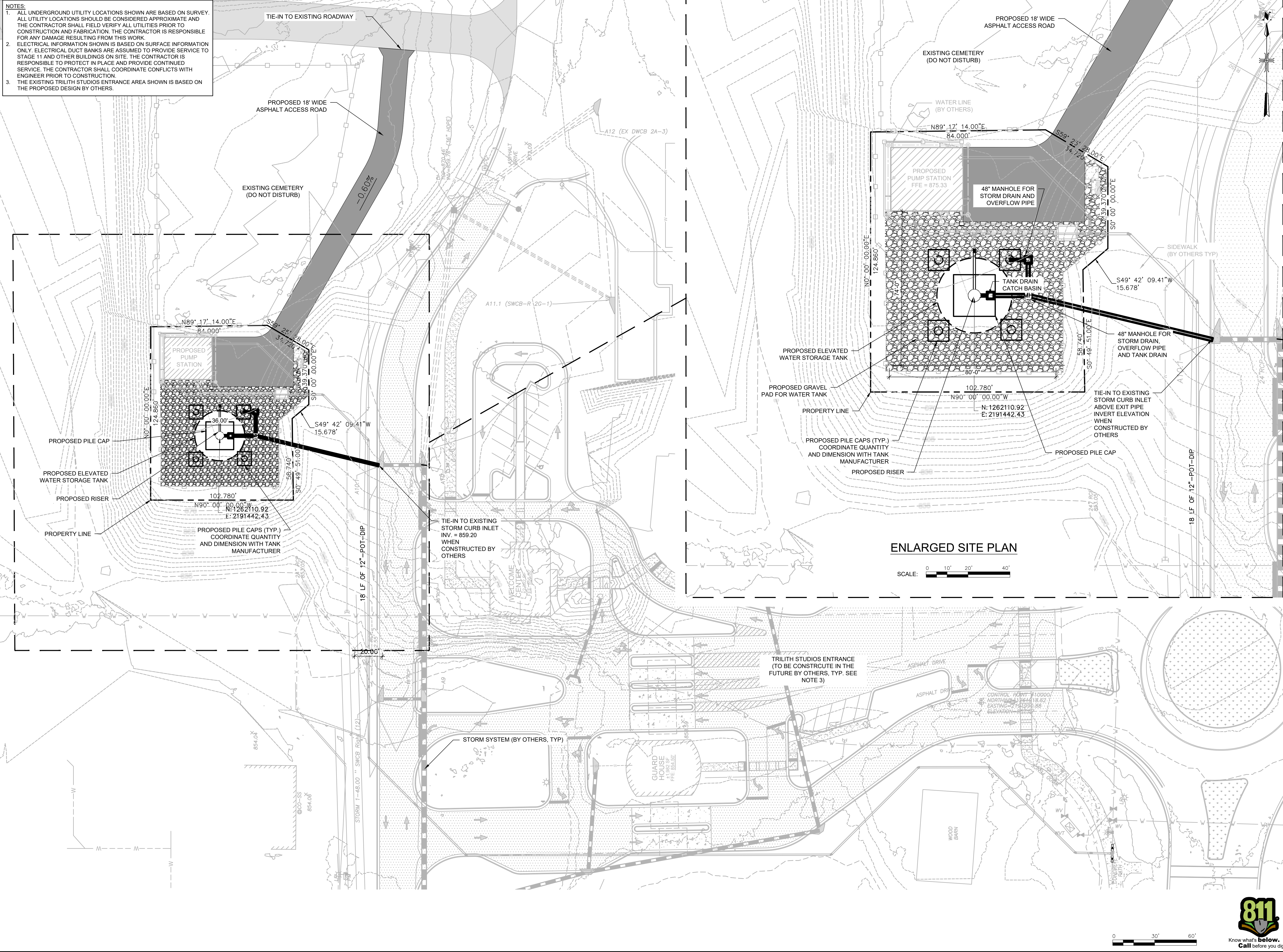
C-01


SHEET 4 OF 23

Know what's below.  
Call before you dig.

User: NIA Spec-AUS-NC5MOD File: C:\USERS\NIA\CAD\DOCS\ARCADIS\AUS-30135792-TRILITH STUDIOS ELEVATED STORAGE TANK\PROJECT FILES\01 - WPCIVIL\SHEET\STANK DRAWING SET\C-02.DWG, Scale: 1:1, Saved Date: 9/13/2023, Time: 16:31, Plot Date: N/A, Nodot: 9/11/2023, 15:18, Layout: 5

- NOTES:
1. ALL UNDERGROUND UTILITY LOCATIONS SHOWN ARE BASED ON SURVEY. ALL UTILITY LOCATIONS SHOULD BE CONSIDERED APPROXIMATE AND THE CONTRACTOR SHALL FIELD VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION AND FABRICATION. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE RESULTING FROM THIS WORK.
  2. ELECTRICAL INFORMATION SHOWN IS BASED ON SURFACE INFORMATION ONLY. ELECTRICAL DUCT BANKS ARE ASSUMED TO PROVIDE SERVICE TO STAGE 11 AND OTHER BUILDINGS ON SITE. THE CONTRACTOR IS RESPONSIBLE TO PROTECT IN PLACE AND PROVIDE CONTINUED SERVICE. THE CONTRACTOR SHALL COORDINATE CONFLICTS WITH ENGINEER PRIOR TO CONSTRUCTION.
  3. THE EXISTING TRILITH STUDIOS ENTRANCE AREA SHOWN IS BASED ON THE PROPOSED DESIGN BY OTHERS.





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CONSULTANTS

SEALS

FAYETTE COUNTY, GEORGIA  
FAYETTE COUNTY WATER SYSTEM



FCWS-TRILITH STUDIOS  
ELEVATED WATER STORAGE TANK

400 VETERANS PARKWAY  
FAYETTEVILLE, GA 30214

REVISIONS				
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PROJECT STATUS: ISSUE FOR CONSTRUCTION

PROJECT NO.: 30135792

DATE: 09/13/2023

FILE NAME: C-02

DESIGNED BY: T. THOMAS

DRAWN BY: N. NIA

CHECKED BY: D. WILSON

SHEET TITLE

CIVIL

OVERALL SITE PLAN

SCALE: AS SHOWN

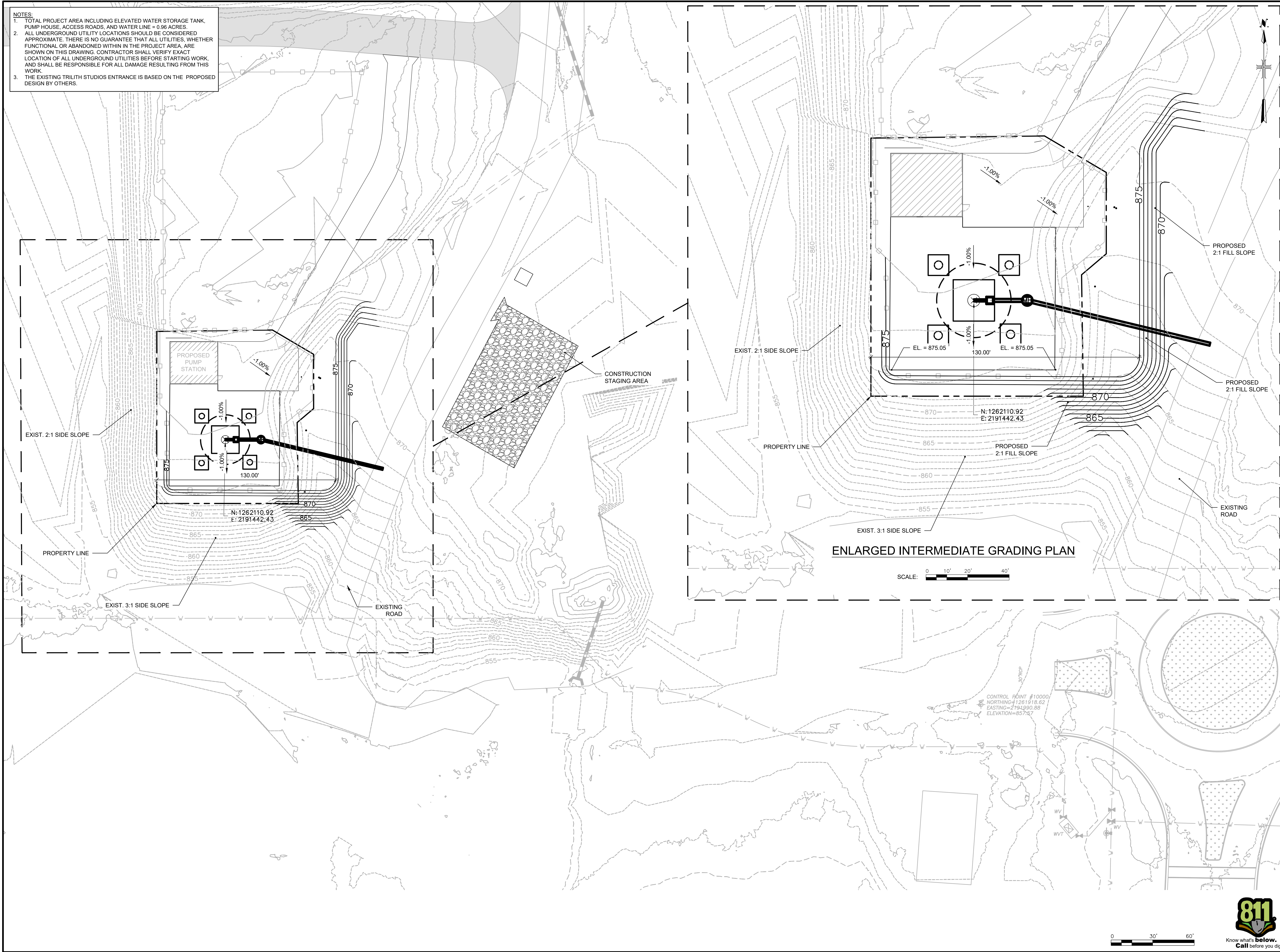
C-02

SHEET 5 OF 23



Know what's below.  
Call before you dig.

User: NIA\_Spec-AUS-NC5MOD File: C:\USERS\NIA\ACAD\DWG\PROJECT FILES\01 - WPCIVIL\SHEET\STANK DRAWING SET\C-03.DWG, Scale: 1:1, Saved Date: 9/11/2023, Time: 13:36, Plot Date: N/A, N/A, 9/11/2023, 13:37, Layout: 6





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FAYETTE COUNTY, GEORGIA  
FAYETTE COUNTY WATER SYSTEM



FCWS-TRILITH STUDIOS  
ELEVATED WATER STORAGE TANK

400 VETERANS PARKWAY  
FAYETTEVILLE, GA 30214

REVISIONS

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PROJECT STATUS: ISSUE FOR CONSTRUCTION

PROJECT NO.: 30135792

DATE: 09/13/2023

FILE NAME: C-03

DESIGNED BY: T. THOMAS

DRAWN BY: N. NIA

CHECKED BY: D. WILSON

SHEET TITLE

CIVIL

INTERMEDIATE GRADING PLAN

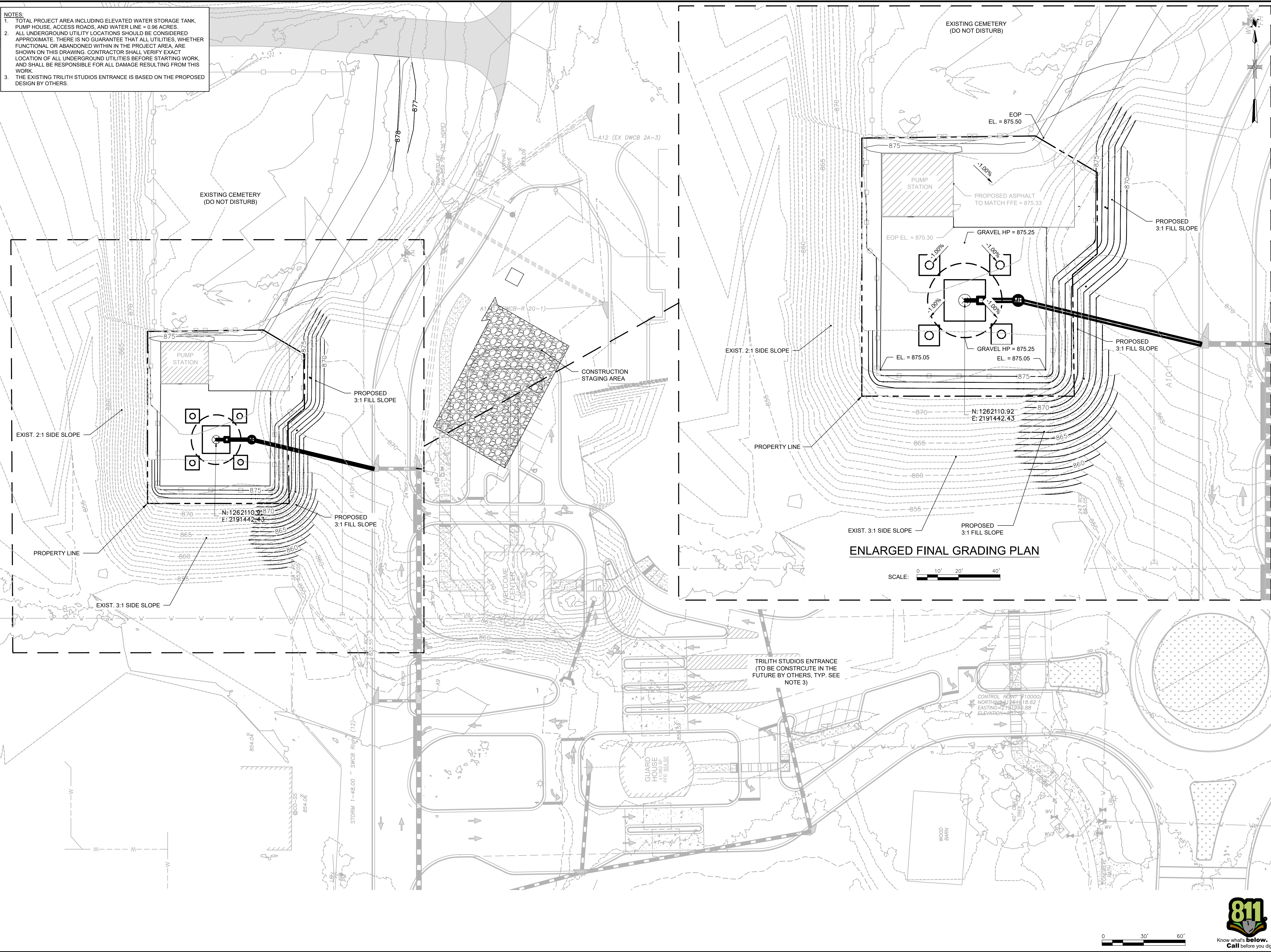
SCALE: 1" = 30'

SHEET 6 OF 23



Know what's below.  
Call before you dig.

NOTES:  
1. TOTAL PROJECT AREA INCLUDING ELEVATED WATER STORAGE TANK, PUMP HOUSE, ACCESS ROADS, AND WATER LINE = 0.96 ACRES  
2. ALL UNDERGROUND UTILITY LOCATIONS SHOULD BE CONSIDERED APPROXIMATE. THERE IS NO GUARANTEE THAT ALL UTILITIES, WHETHER FUNCTIONAL OR ABANDONED WITHIN THE PROJECT AREA, ARE SHOWN ON THIS DRAWING. CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL UNDERGROUND UTILITIES BEFORE STARTING WORK, AND SHALL BE RESPONSIBLE FOR ALL DAMAGE RESULTING FROM THIS WORK.  
3. THE EXISTING TRILITH STUDIOS ENTRANCE IS BASED ON THE PROPOSED DESIGN BY OTHERS.





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CONSULTANTS

SEALS

FAYETTE COUNTY, GEORGIA  
FAYETTE COUNTY WATER SYSTEM



FCWS-TRILITH STUDIOS  
ELEVATED WATER STORAGE TANK

400 VETERANS PARKWAY  
FAYETTEVILLE, GA 30214

REVISIONS			
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PROJECT STATUS: ISSUE FOR CONSTRUCTION

PROJECT NO.: 30135792

DATE: 09/13/2023

FILE NAME: C-04

DESIGNED BY: T. THOMAS

DRAWN BY: N. NIA

CHECKED BY: D. WILSON

SHEET TITLE

CIVIL

FINAL GRADING PLAN

SCALE: 1" = 30'

C-04

SHEET 7 OF 23

- NOTES:
1. ALL UNDERGROUND UTILITY LOCATIONS SHOULD BE CONSIDERED APPROXIMATE. THERE IS NO GUARANTEE THAT ALL UTILITIES, WHETHER FUNCTIONAL OR ABANDONED WITHIN IN THE PROJECT AREA, ARE SHOWN ON THIS DRAWING. CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL UNDERGROUND UTILITIES BEFORE STARTING WORK, AND SHALL BE RESPONSIBLE FOR ALL DAMAGE RESULTING FROM THIS WORK.
  2. THE EXISTING TRILITH STUDIOS ENTRANCE IS BASED ON THE BASED ON THE PROPOSED DESIGN BY OTHERS.
  3. CONTRACTOR TO MAINTAIN MINIMUM 18" VERTICAL SEPARATION BETWEEN PROPOSED WATER LINE AND STORM LINE. COORDINATE WITH ENTRANCE ROAD ENGINEER ON STORM INLET ELEVATION.

EXISTING CEMETERY  
(DO NOT DISTURB)

PUMP  
STATION

ELEVATED WATER  
STORAGE TANK  
PROPERTY LINE  
RISER MANHOLE

16" DR-PVC FOR OVERFLOW PIPE,  
STORM DRAIN, AND TANK DRAIN  
(SEE SHEET C-06)

OVERSIZED CORE & BOOT AS  
APPROPRIATE TO ACCOMMODATE  
THE 16" PVC LINE AT 8% SLOPE

CORE & BOOT AS  
APPROPRIATE TO RECEIVE  
THE 16" PVC LINE AT 8% SLOPE

TIE TO STORM STRUCTURE  
INV IN: 859.2'  
SEE NOTE 4


STORM SYSTEM (BY OTHERS, TYP)

TRILITH STUDIOS ENTRANCE  
(TO BE CONSTRUCTED IN THE FUTURE  
BY OTHERS, TYP. SEE NOTE 3)

GUARD  
HOUSE  
#1902 SF  
FFE: 854.50'

WOOD  
BARN

VETERANS PARKWAY




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SEALS

FAYETTE COUNTY, GEORGIA  
FAYETTE COUNTY WATER  
SYSTEM



FCWS-TRILITH STUDIOS  
ELEVATED WATER  
STORAGE TANK

400 VETERANS PARKWAY  
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SHEET TITLE


CIVIL

UTILITY PLAN

SCALE: AS SHOWN

C-05

SHEET 8 OF 23



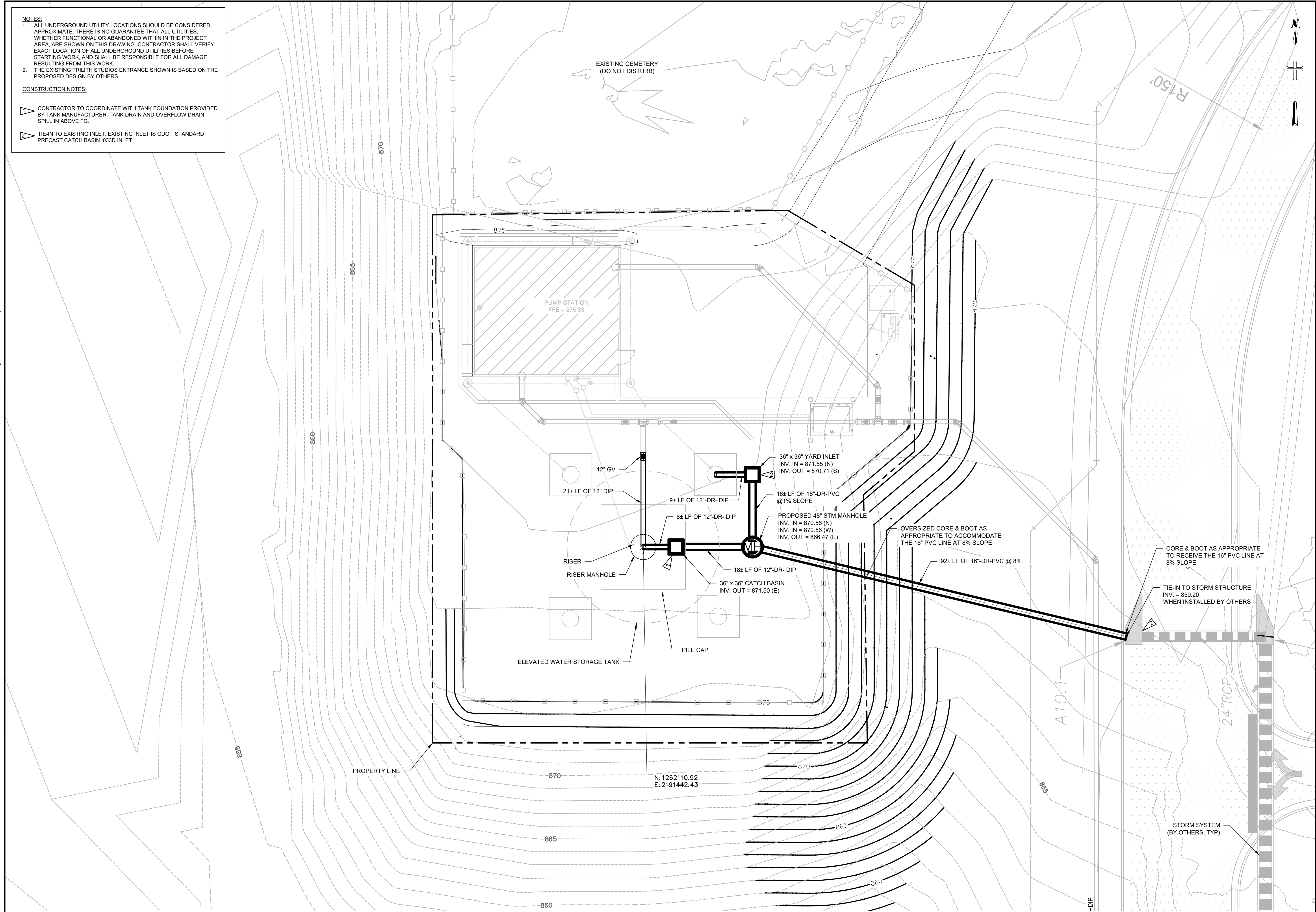
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- NOTES:
- ALL UNDERGROUND UTILITY LOCATIONS SHOULD BE CONSIDERED APPROXIMATE. THERE IS NO GUARANTEE THAT ALL UTILITIES, WHETHER FUNCTIONAL OR ABANDONED WITHIN IN THE PROJECT AREA, ARE SHOWN ON THIS DRAWING. CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL UNDERGROUND UTILITIES BEFORE STARTING WORK, AND SHALL BE RESPONSIBLE FOR ALL DAMAGE RESULTING FROM THIS WORK.
  - THE EXISTING TRILITH STUDIOS ENTRANCE SHOWN IS BASED ON THE PROPOSED DESIGN BY OTHERS.

CONSTRUCTION NOTES:

- CONTRACTOR TO COORDINATE WITH TANK FOUNDATION PROVIDED BY TANK MANUFACTURER. TANK DRAIN AND OVERFLOW DRAIN SPILL IN ABOVE FG.
- TIE-IN TO EXISTING INLET. EXISTING INLET IS GDOT STANDARD PRECAST CATCH BASIN I033D INLET.

User\\NIA-Spec-AUS-NC-SMOD File C:\\USERS\\NIA\\CADD\\C06\\C06\\ARCADIS\\AUS-30135792-TRILITH STUDIOS ELEVATED STORAGE TANK\\PROJECT FILES\\01 - WPCIVIL\\SHEET\\STANK DRAWING SET\\C-06.DWG, Scale: 1:1 Saved Date: 9/11/2023 Time: 14:17 Plot Date: N/A, N/A, N/A, 9/11/2023, 14:18 : Layout#9



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FAYETTE COUNTY, GEORGIA  
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ELEVATED WATER STORAGE TANK

400 VETERANS PARKWAY  
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FILE NAME: C-06

DESIGNED BY: T. THOMAS

DRAWN BY: N. NIA

CHECKED BY: D. WILSON

SHEET TITLE

CIVIL

ENLARGED UTILITY PLAN FOR TANK AREA

SCALE: AS SHOWN

C-06

SHEET 9 OF 23

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User: NIA\_SpecAUS-NC5MOD File: C:\USERS\NIA\Documents\ARCADIS\AUS-30135792-TRILITH STUDIOS ELEVATED STORAGE TANK\PROJECT FILES\01 - WIP\CIVIL\SHEET\STANK DRAWING SET\C-07.DWG, Scale: 1:1, Saved Date: 9/13/2023, Time: 17:36, Plot Date: N/A, Ngsd: 9/11/2023, 14:22, Layout: 12

NOTES:  
1. ALL UNDERGROUND UTILITY LOCATIONS SHOULD BE CONSIDERED APPROXIMATE. THERE IS NO GUARANTEE THAT ALL UTILITIES, WHETHER FUNCTIONAL OR ABANDONED WITHIN IN THE PROJECT AREA, ARE SHOWN ON THIS DRAWING. CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL UNDERGROUND UTILITIES BEFORE STARTING WORK, AND SHALL BE RESPONSIBLE FOR ALL DAMAGE RESULTING FROM THIS WORK.

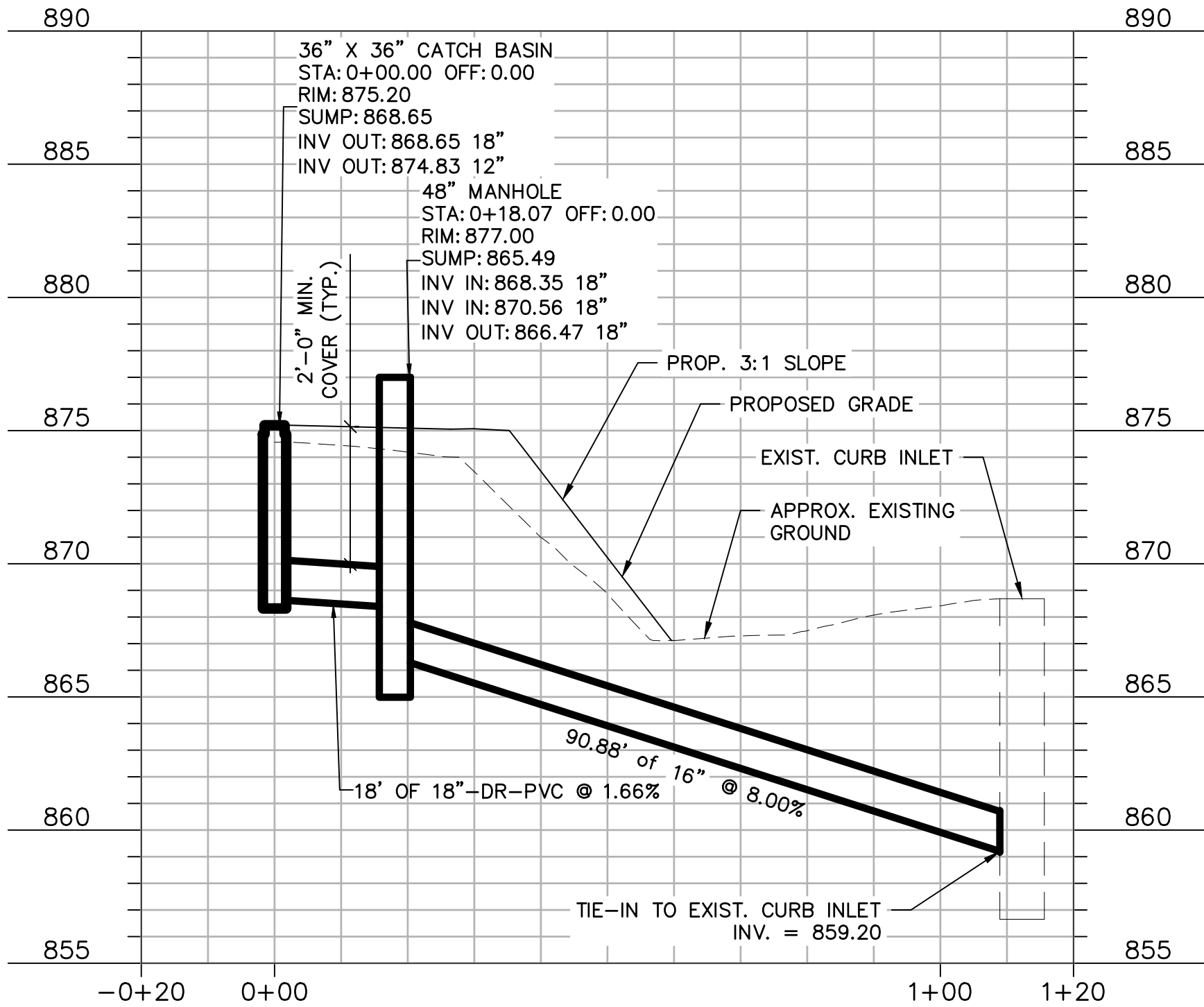
LEGEND

- -----

=====
- EXISTING GROUND

PROPOSED GROUND

PROPOSED STORM SEWER PIPE



STORM SEWER LINE FROM TANK DRAIN CATCH BASIN TO EXISTING  
GDOT CURB INLET

SCALE:    HORIZ.    0    10'    20'    40'  
              VERT.    0    5'    10'



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ELEVATED WATER  
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SHEET TITLE

CIVIL

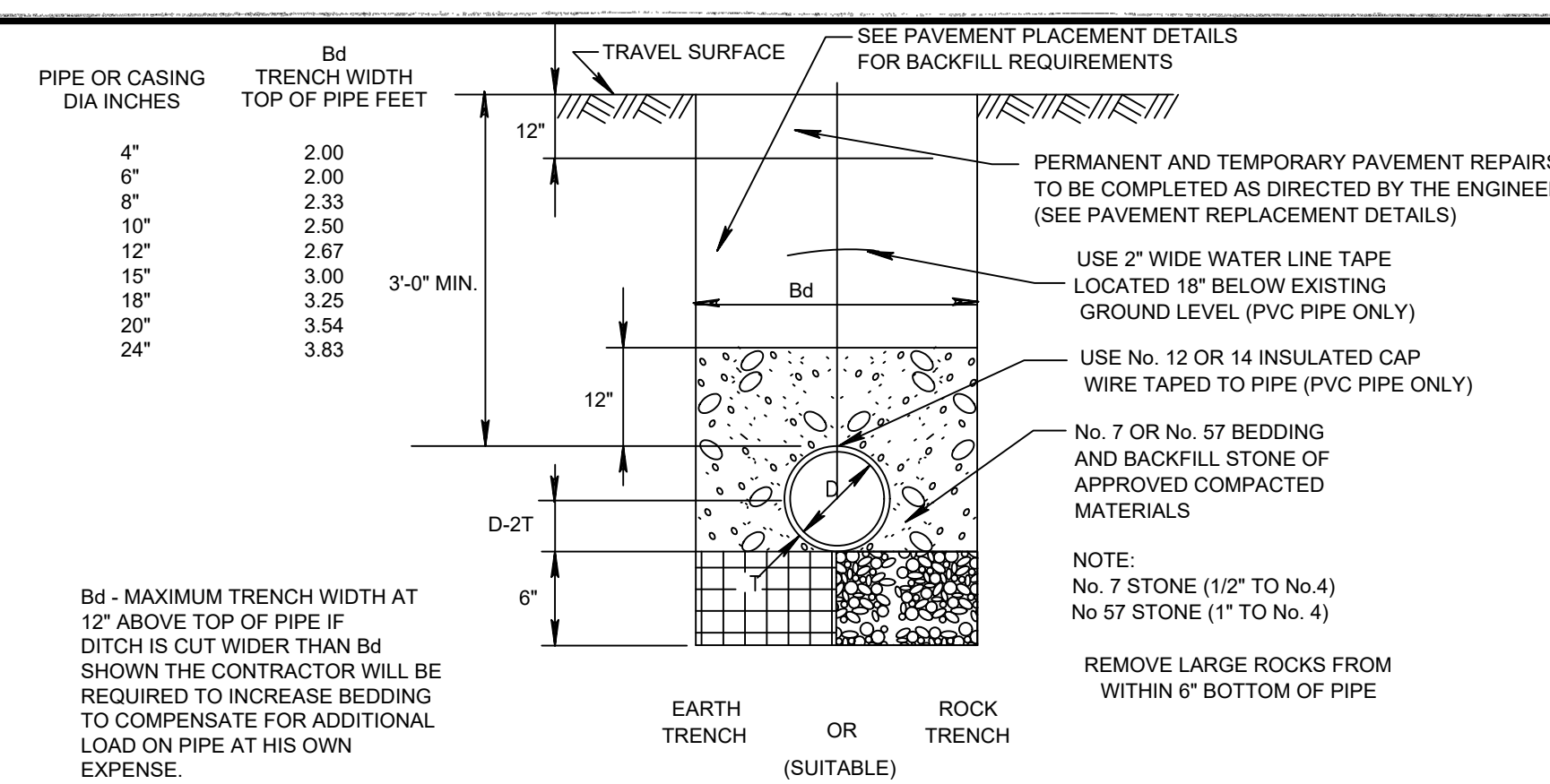
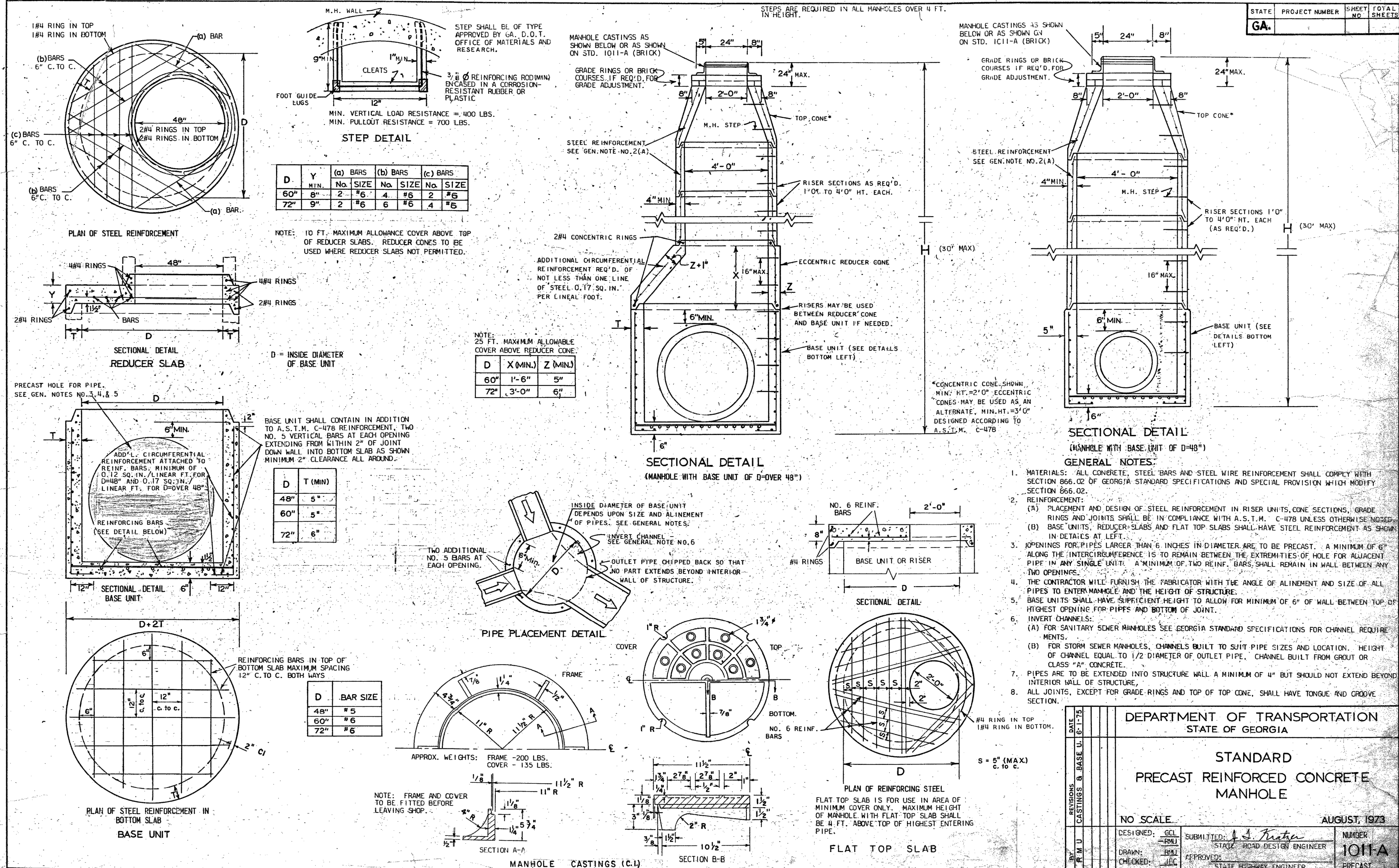
STORM SEWER  
PROFILES

SCALE:    AS SHOWN

C-07

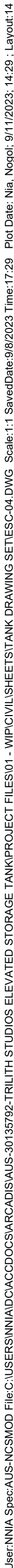
SHEET    10    OF    23


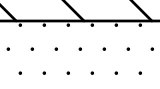


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## WATER LINE DETAILS FOR PVC & D.I. PIPE





SOIL INFORMATION			
MAP UNIT SYMBOL	MAP UNIT NAME	SLOPE (%)	SYMBOL
AkA	ALTAVISTA SANDY LOAM	0 - 3	
AmB	APPLING SANDY LOAM	2 - 6	
CeB	CECIL SANDY LOAM	2 - 6	
CeC	CECIL SANDY LOAM	6 - 10	



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SEALS

FAYETTE COUNTY, GEORGIA  
FAYETTE COUNTY WATER  
SYSTEM



# FCWS-TRILITH STUDIOS ELEVATED WATER STORAGE TANK

400 VETERANS PARKWAY  
FAYETTEVILLE, GA 30214

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DATE: 09/13/2023

FILE NAME: ESC-04

DESIGNED BY: T. THOMAS

DRAWN BY: N. NIA

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SHEET TITLE

CIVIL

# SOIL MAP

SCALE: AS SHOWN

ESC-02

SHEET 13 OF 23



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**FAYETTE**  
*County*  
**Water**

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SHEET TITLE
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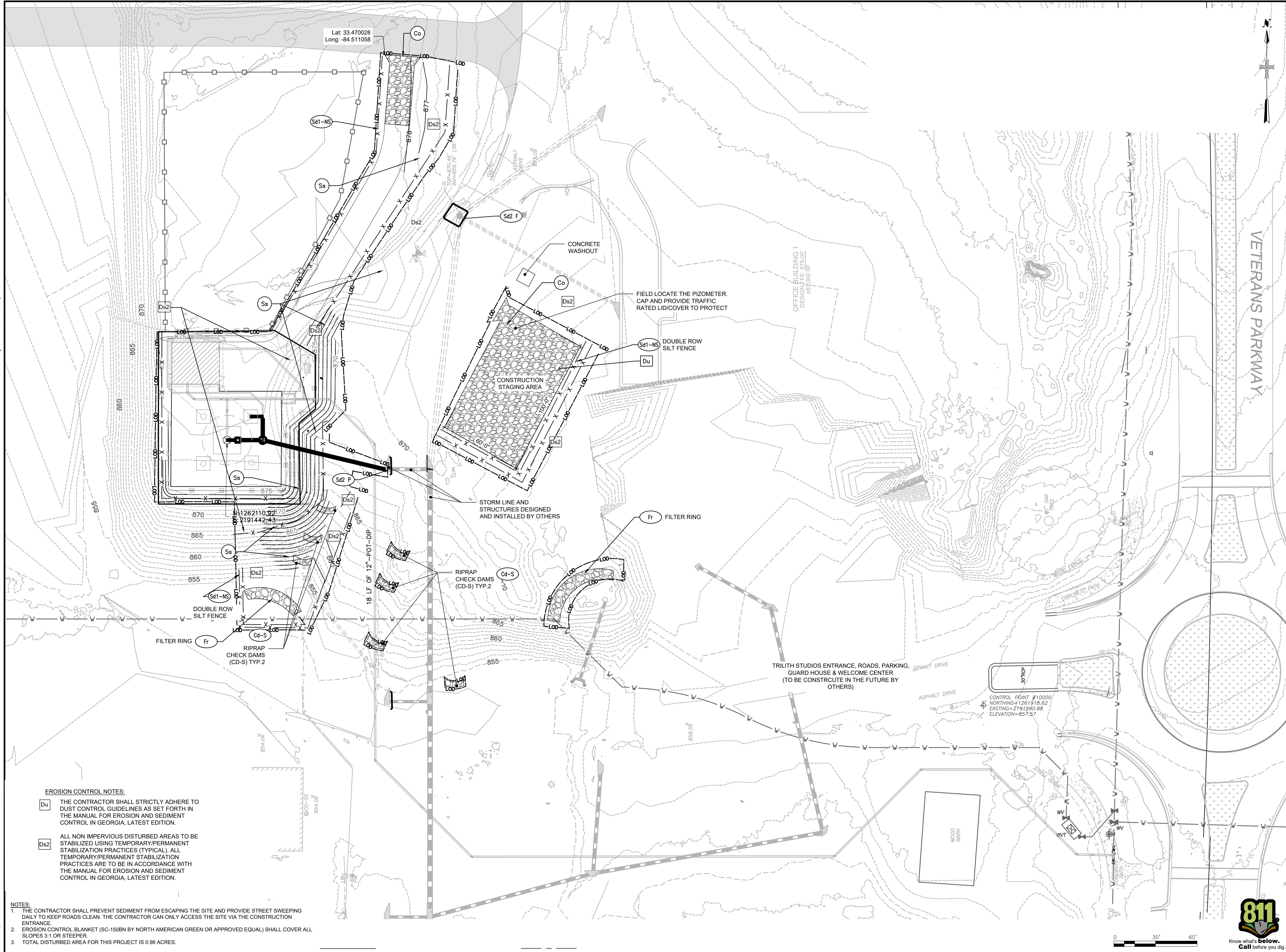
## EROSION & SEDIMENT CONTROL INITIAL PHASE

ESC-03

SHEET 14 OF 23



User: NIA Spec: AUS-NC5MOD File: C:\USERS\NIA\CAD\DWG\SET\ESC-07.DWG Scale: 1:1 Saved: 9/11/2023 14:41 Layout: 17



**EROSION CONTROL NOTES:**

- Du** THE CONTRACTOR SHALL STRICTLY ADHERE TO DUST CONTROL GUIDELINES AS SET FORTH IN THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION.
- Ds2** ALL NON IMPERVIOUS DISTURBED AREAS TO BE STABILIZED USING TEMPORARY/PERMANENT STABILIZATION PRACTICES (TYPICAL). ALL TEMPORARY/PERMANENT STABILIZATION PRACTICES ARE TO BE IN ACCORDANCE WITH THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION.

**NOTES:**

1. THE CONTRACTOR SHALL PREVENT SEDIMENT FROM ESCAPING THE SITE AND PROVIDE STREET SWEEPING DAILY TO KEEP ROADS CLEAN. THE CONTRACTOR CAN ONLY ACCESS THE SITE VIA THE CONSTRUCTION ENTRANCE.
2. EROSION CONTROL BLANKET (SC-150BN BY NORTH AMERICAN GREEN OR APPROVED EQUAL) SHALL COVER ALL SLOPES 3:1 OR STEEPER.
3. TOTAL DISTURBED AREA FOR THIS PROJECT IS 0.96 ACRES.

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CONSULTANTS

SEALS

FAYETTE COUNTY, GEORGIA  
FAYETTE COUNTY WATER SYSTEM

**FAYETTE**  
*County*  
**Water**

FCWS-TRILITH STUDIOS  
ELEVATED WATER STORAGE TANK

400 VETERANS PARKWAY  
FAYETTEVILLE, GA 30214

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DATE: 09/13/2023

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DRAWN BY: N. NIA

CHECKED BY: D. WILSON

SHEET TITLE

CIVIL

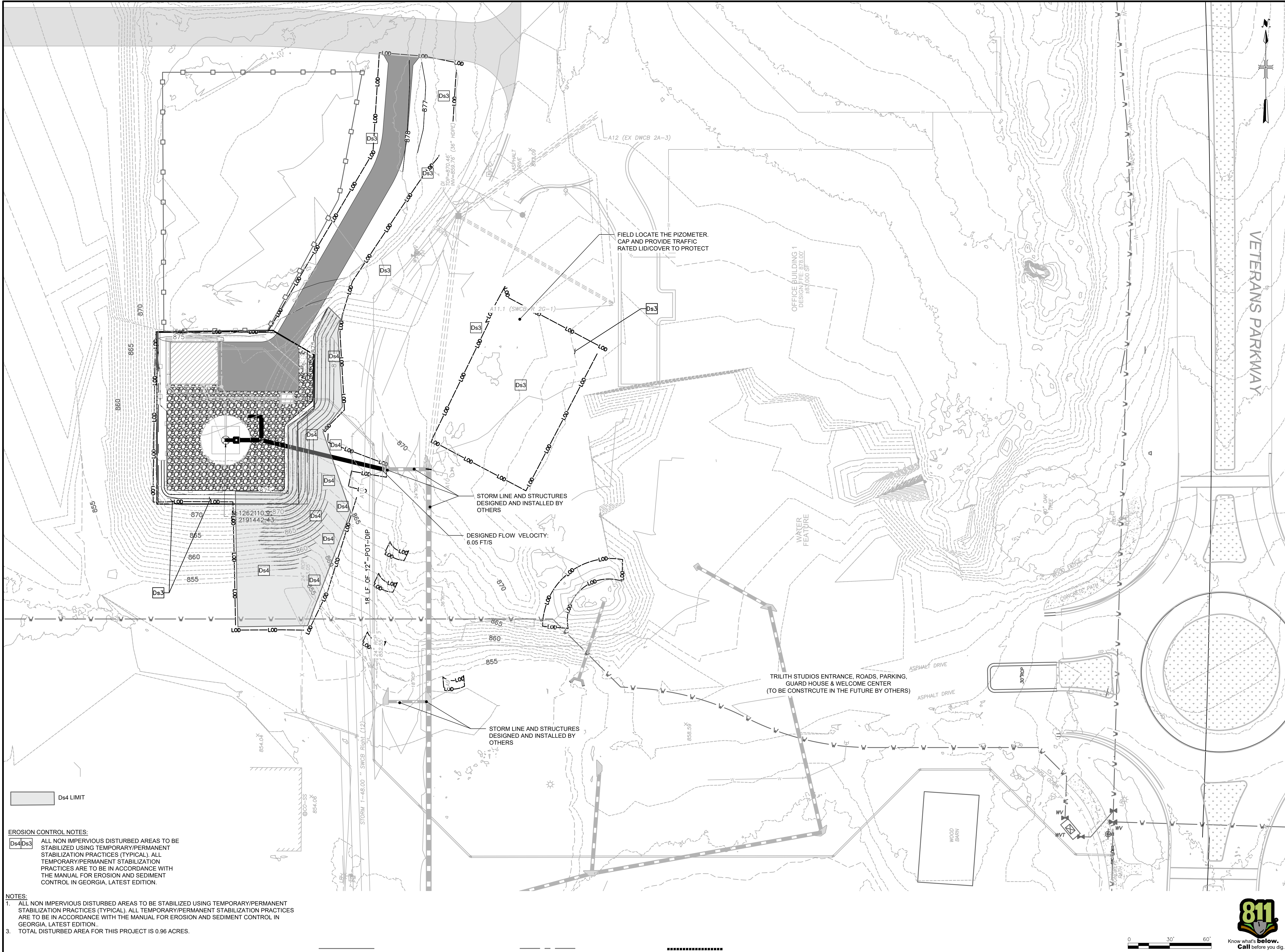
EROSION & SEDIMENT CONTROL  
INTERMEDIATE PHASE

SCALE: AS SHOWN

ESC-04

SHEET 15 OF 23

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**EROSION CONTROL NOTES:**

**Ds4Ds3** ALL NON IMPERVIOUS DISTURBED AREAS TO BE STABILIZED USING TEMPORARY/PERMANENT STABILIZATION PRACTICES (TYPICAL). ALL TEMPORARY/PERMANENT STABILIZATION PRACTICES ARE TO BE IN ACCORDANCE WITH THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION.

**NOTES:**

1. ALL NON IMPERVIOUS DISTURBED AREAS TO BE STABILIZED USING TEMPORARY/PERMANENT STABILIZATION PRACTICES (TYPICAL). ALL TEMPORARY/PERMANENT STABILIZATION PRACTICES ARE TO BE IN ACCORDANCE WITH THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION.

3. TOTAL DISTURBED AREA FOR THIS PROJECT IS 0.96 ACRES.

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FAYETTE COUNTY WATER SYSTEM

FCWS-TRILITH STUDIOS  
ELEVATED WATER STORAGE TANK

400 VETERANS PARKWAY  
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CHECKED BY: D. WILSON

SHEET TITLE

CIVIL

EROSION, SEDIMENT CONTROL, AND VEGETATIVE PLAN FINAL PHASE

SCALE: AS SHOWN

ESC-05

SHEET 16 OF 23

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SEEDING SCHEDULE TEMPORARY COVER

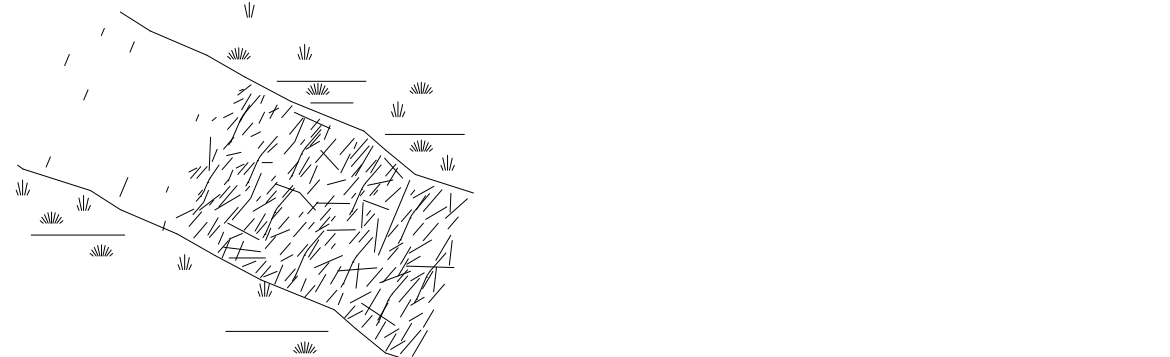
SPECIES	BROADCAST RATES - PLS PER ACRE	BROADCAST RATES - PLS PER 1000 SQ. FT.	RESOURCE AREA*3	PLANTING DATES (SOLID LINES INDICATE OPTIMUM DATES, DOTTED LINES INDICATED PERMISSIBLE BUT MARGINAL DATES.)
BARLEY (HORDEUM VULGARE)			M-L	J F M A M J J A S O N D
ALONE	3 BU. (144 LBS.)	3.3 LB.	P	
IN MIXTURES	½ BU. (24 LBS.)	0.6 LB.	C	J F M A M J J A S O N D
LESPEDEZA, ANNUAL (LEZPEDEZA STRIATA)			M-L	
ALONE	40 LBS.	0.9 LB.	P	
IN MIXTURES	10 LBS.	0.2 LB.	C	J F M A M J J A S O N D
LOVEGRASS, WEEPING (ERAGROSTIS CURVULA)			M-L	
ALONE	4 LBS.	0.1 LB.	P	
IN MIXTURES	2 LBS.	0.05 LB.	C	J F M A M J J A S O N D
MILLET, BROWNTOP (Panicum fasciculatum)			M-L	
ALONE	40 LBS.	0.9 LB.	P	
IN MIXTURES	10 LBS.	0.2 LB.	C	J F M A M J J A S O N D
MILLET, PEARL (PENNESETUM GLAUCUM)			M-L	
ALONE	50 LBS.	1.1 LB.	P	
IN MIXTURES			C	J F M A M J J A S O N D
OATS (Avena sativa)			M-L	
ALONE	4 BU. (128 LBS.)	2.9 LB.	P	
IN MIXTURES	1 BU. (32 LBS.)	0.7 LB.	C	J F M A M J J A S O N D
RYE (SECALE CEREALE)			M-L	
ALONE	3 BU. (168 LBS.)	3.9 LB.	P	
IN MIXTURES	½ BU. (28 LBS.)	0.6 LB.	C	J F M A M J J A S O N D
TRITICALE (X-TRITICOSECALE)			C	
ALONE	3 BU. (144 LBS.)	3.3 LB.	P	
IN MIXTURES	½ BU. (24 LBS.)	0.6 LB.	C	J F M A M J J A S O N D
RYEGRASS, ANNUAL (LOLIUM TEMULENTUM)			M-L	
ALONE	40 LBS.	0.9 LB.	P	
IN MIXTURES			C	J F M A M J J A S O N D
SUDANGRASS (SORGHUM SUDANESE)			M-L	
ALONE	60 LBS.	1.4 LB.	P	
IN MIXTURES			C	J F M A M J J A S O N D
WHEAT (TRITICUM AESTIVUM)			M-L	
ALONE	3 BU. (180 LBS.)	4.1 LB.	P	
IN MIXTURES	½ BU. (30 LBS.)	0.7 LB.	C	

LIME: APPLY AT A RATE OF ONE TON PER ACRE  
FERTILIZER: APPLY 500-700 POUNDS OF 10-10-10 OR EQUIVALENT PER ACRE

FERTILIZER REQUIREMENTS PERMANENT COVER

TYPE OF SPECIES	YEAR	ANALYSIS OR EQUIVALENT N-P-K	RATE	N TOP DRESSING RATE
1. COOL SEASON GRASSES	FIRST	6-12-12	1500 lbs./AC.	50-100 lbs./AC. 1/2/
	SECOND	6-12-12	1000 lbs./AC.	—
	MAINTENANCE	10-10-10	400 lbs./AC.	30 lbs./AC.
2. COOL SEASON GRASSES & LEGUMES	FIRST	6-12-12	1500 lbs./AC.	0-50 lbs./AC. 1/
	SECOND	10-10-10	1000 lbs./AC.	—
	MAINTENANCE	10-10-10	400 lbs./AC.	—
3. GROUND COVERS	FIRST	10-10-10	1300 lbs./AC. 3/	—
	SECOND	10-10-10	1300 lbs./AC. 3/	—
	MAINTENANCE	10-10-10	1100 lbs./AC.	—
4. PINE SEEDLINGS	FIRST	20-10-5	ONE 21-GRAM PELLET PER SEEDLING PLACED IN THE CLOSING HOLE	—
5. SHRU LESPEDEZA	FIRST	0-10-10	700 lbs./AC.	—
MAINTENANCE	0-10-10	700 lbs./AC. 4/	—	—
6. TEMPORARY COVER CROPS SEEDED ALONE	FIRST	10-10-10	500 lbs./AC.	30 lbs./AC. 5/
7. WARM SEASON GRASSES	FIRST	6-12-12	1500 lbs./AC.	50-100 lbs./AC. 2/6/
	SECOND	6-12-12	800 lbs./AC.	50-100 lbs./AC. 2/
	MAINTENANCE	10-10-10	400 lbs./AC.	30 lbs./AC.
8. WARM SEASON GRASSES & LEGUMES	FIRST	6-12-12	1500 lbs./AC.	50 lbs./AC. 6/
	SECOND	0-10-10	1000 lbs./AC.	—
	MAINTENANCE	0-10-10	400 lbs./AC.	—

LIME: APPLY AT A RATE OF ONE TON PER ACRE  
1/ APPLY IN SPRING FOLLOWING SEEDING.  
2/ APPLY IN SPLIT APPLICATIONS WHEN HIGH RATES ARE USED.  
3/ APPLY IN 3 SPLIT APPLICATIONS.  
4/ APPLY WHEN PLANTS ARE PRUNED.  
5/ APPLY TO GRASS SPECIES ONLY.  
6/ APPLY WHEN PLANTS GROW TO A HEIGHT OF 2 TO 4 INCHES.

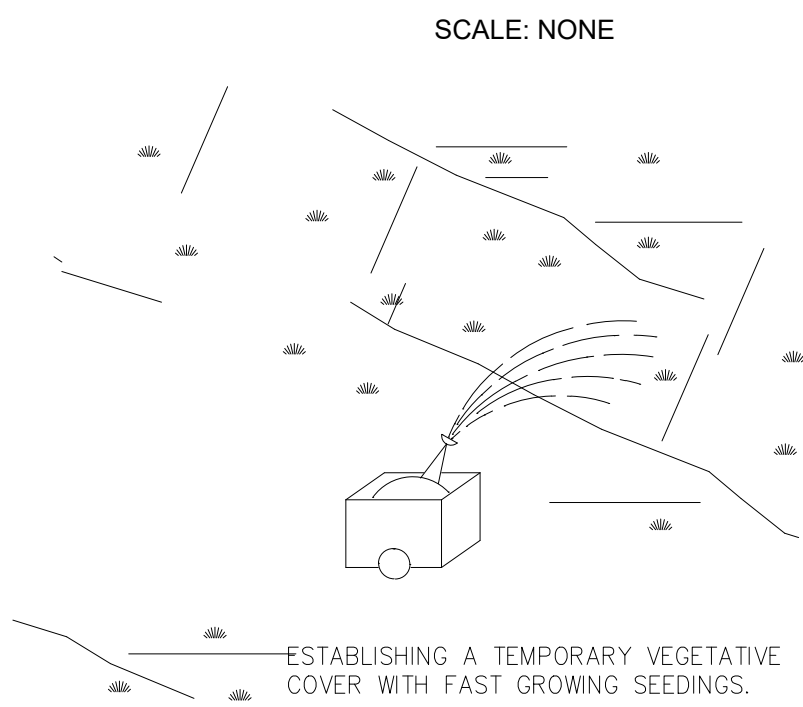


ESTABLISHING A TEMPORARY PROTECTION FOR DISTURBED AREAS USING SPECIFIC MULCH MATERIALS.

- MULCH MATERIALS SHALL CONSIST OF DRY STRAW OR HAY AT 2.5 TONS PER ACRE, WOOD CHIPS AT 6 TO 9 TONS PER ACRE, EROSION CONTROL MATTING OR NETTING, OR POLYETHYLENE FILM.
- THIS STANDARD APPLIED TO GRADES OR CLEARED AREAS WHICH MAY BE SUBJECTED TO EROSION CONTROL FOR 6 MONTHS OR LESS, AND CAN BE STABILIZED WITH A MULCH COVER.

Ds2

DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDINGS)



- SCALE: NONE
- < 12 MONTHS OR UNTIL ESTABLISHMENT OF FINISHED GRADE OR PERMANENT VEGETATION.
  - SITE PREPARATION:
    - GRADING AND SHAPING
    - SEEDBED PREPARATION
    - APPLY LIME AND FERTILIZER
    - PLANT SEEDINGS, SELECT SPECIES BY SEASON AND REGION
    - APPLY MULCHING MATERIAL IF NEEDED
    - IRRIGATE IF NEEDED BUT NOT @ RATE TO CAUSE EROSION
  - PLANTING DATES DEPEND ON SPECIES AND REGION (MOUNTAIN, PIEDMONT OR COASTAL)

NOTES:  
CONTRACTOR SHALL STABILIZE ALL AREAS WITH TEMPORARY VEGETATION THAT ARE TO BE EXPOSED WITHOUT STORM WATER PROTECTION FOR LONGER THAN 7 DAYS.

Ds2

DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDINGS)

Table 6-6.1. Fertilizer Requirements for Soil Surface Application

Fertilizer Type	Fertilizer Rate (lbs/acre)	Fertilizer Rate (lbs/sq ft)	Season
10-10-10	1000	.025	Fall

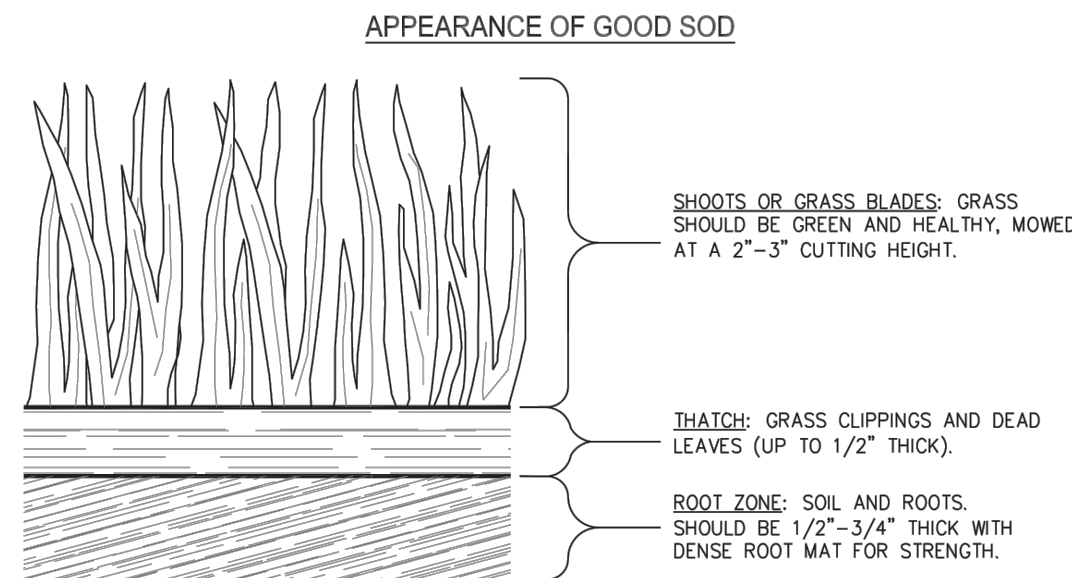
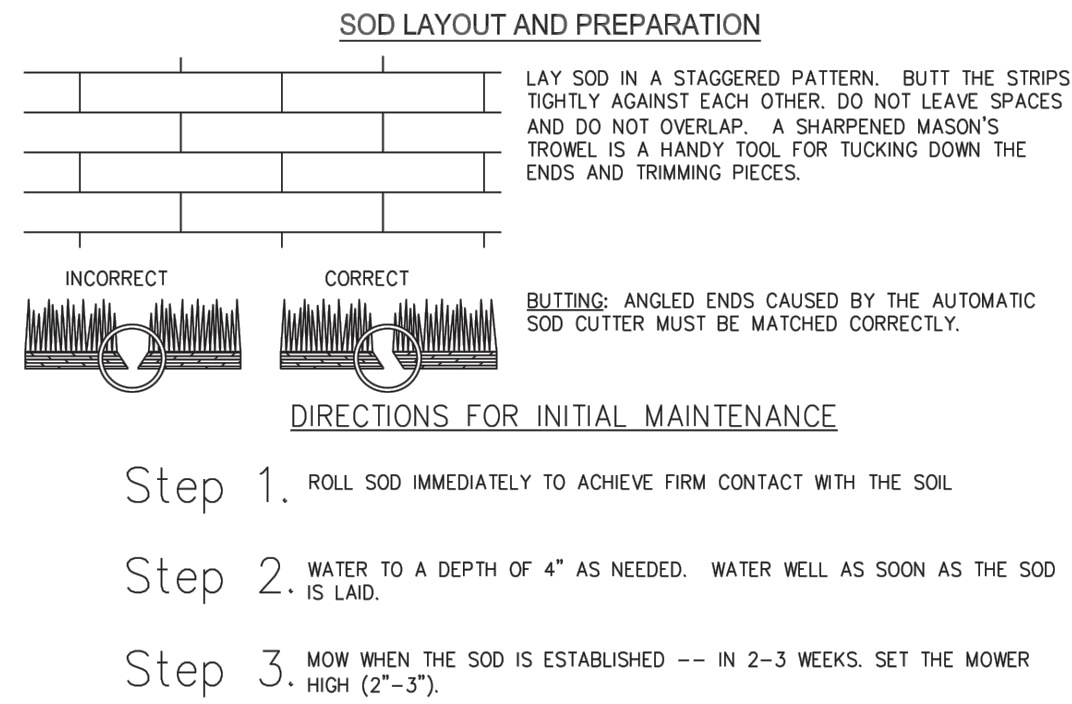
Table 6-6.2 Sod Planting Requirements

Grass	Varieties	Resource Area	Growing Season
Bermudagrass	Common Tifway Tifgreen Tiflawn	M-L,P P,C P,C P,C	warm weather
Bahiagrass	Pensacola	P,C	warm weather
Centipede	—	P,C	warm weather
St. Augustine	Common Bitterblue Raleigh	C	warm weather
Zoysia	Emerald Myer	P,C	warm weather
Tall Fescue	Kentucky	M-L,P	cool weather

Table 6-6.3 Fertilizer Requirements for Sod

Types of Species	Planting Year	Fertilizer (N-P-K)	Rate (lbs./acre)	Nitrogen Top Dressing Rate (lbs./acre)
cool season grasses	first	6-12-12	1500	50-100
	second	6-12-12	1000	-
warm season grasses	first	6-12-12	1500	50-100
	second	6-12-12	800	30

SOD MAINTENANCE AND INSTALLATION



Source: Va. DSWC

Figure 6-6.2



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FAYETTE COUNTY WATER SYSTEM



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ELEVATED WATER STORAGE TANK

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PROJECT NO.:	30135792
DATE:	09/13/2023
FILE NAME:	ESC-09
DESIGNED BY:	T. THOMAS
DRAWN BY:	N. NIA
CHECKED BY:	D. WILSON

SHEET TITLE

EROSION & SEDIMENT CONTROL

EROSION & SEDIMENT CONTROL DETAILS (SHEET 2 OF 3)

SCALE:

AS SHOWN

ESC-07

SHEET 18 OF 23



Know what's below.  
Call before you dig.

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DESIGNED BY: T. THOMAS

---

DRAWN BY: N. NIA

---

CHECKED BY: D. WILSON

SHEET TITLE

EROSION & SEDIMENT CONTROL

SCALE: AS SHOWN

SHEET 19 OF 23

- When utilized at pipes with diameters greater than 12", the filter ring shall be constructed of stone no smaller than 10"-15" (50-100 lbs).
- Construct the ring at a height no less than 2 ft above grade.
- Mechanically or hand place the stone uniformly around the structure.



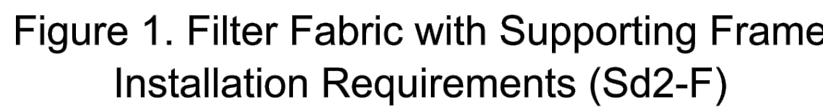
- Keep clear of trash and debris.
- Continuously monitor and maintain the structure.
- Remove sediment when it reaches one-half full.
- Remove structure when the project has reached final stabilization.

## FILTER FABRIC

**Sd2-F**

### Filter Fabric with Supporting Frame

- Applicable where the inlet drains a relatively flat area (<5% slope).
- Use Type S steel posts.
- Space stakes evenly around perimeter at a maximum of 3 ft apart.
- Drive stakes into the ground ~18" deep.
- The fabric shall be 36" tall and entrenched at least 12" and backfill with crushed stone or compacted soil.
- Securely fasten the fabric and wire to the posts.



## Sd2-F



## SANDBAG BARRIER CONCRETE WASHOUT



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NOTES:  

1. PIPELINES, VALVES AND EQUIPMENT SHALL BE FURNISHED, FABRICATED, ERECTED AND OTHERWISE INSTALLED TO LINES, ELEVATIONS LOCATIONS, AND DIMENSIONS AS SHOWN, SPECIFIED OR REQUIRED FOR A COMPLETE INSTALLATION. THE CONTRACTOR SHALL MEASURE ALL DIMENSIONS SHOWN PROPERLY AND SHALL TAKE SUCH FIELD DIMENSIONS AS MAY BE NECESSARY TO PROPERLY INSTALL ALL PIPELINES, VALVES AND EQUIPMENT. DIMENSIONS AND LOCATIONS OF EXISTING EQUIPMENT, PIPING, AND STRUCTURES SHALL BE FIELD VERIFIED BY CONTRACTOR PRIOR TO NEW EQUIPMENT FABRICATION.

2. ALL PIPELINES, VALVES AND EQUIPMENT SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH CONTRACT DOCUMENTS AND MANUFACTURER'S SPECIFICATIONS, IN A NEAT WORKMANLIKE MANNER, AND IN ACCORDANCE WITH APPROVED SHOP AND WORKING DRAWINGS.

3. ALL CONSTRUCTION MATERIALS REQUIRING STORAGE SHALL BE STORED IN STRICT CONFORMANCE WITH CONTRACT DOCUMENTS, MANUFACTURER'S SPECIFICATIONS, RECOMMENDATIONS AND INSTRUCTIONS.

4. SEQUENCE OF WORK : REFER TO SPECIFICATION SECTION 01 14 16 - COORDINATION WITH OWNER'S OPERATIONS.

PIPING SYMBOLS

WELD NECK FLANGE

FLANGED

MECHANICAL JOINT

GROOVED END

WELDED

CONCRETE BELL & SPIGOT

CPVC/PVC/COPPER

FASTITE (RESTRAINED JOINT)

FORGED STEEL SOCKET/THREADED

HDPE IPS (FLANGED)

HDPE IPS

CAST IRON HUBLESS

FLANGED FLARE

BLIND FLANGE

EXPANSION JOINT

FLANGED COUPLING ADAPTER

FLANGED COUPLING ADAPTER

DISMANTLING JOINT

HARNESSED DISMANTLING JOINT

SCHEMATIC VALVE LEGEND

SYM

PLAN

ELEV

AIR RELEASE VALVE (AR)

AIR/VACUUM VALVE (AV)  
COMBINATION AIR VALVE (CA)

BALL VALVE (BV)

BALL CHECK VALVE (BC)

BUTTERFLY VALVE (BFV)

BUTTERFLY DAMPER (BD)

CHECK VALVE (CH)

TELESCOPING VALVE (TV)

DIAPHRAGM VALVE (DV)

SUCTION FOOT VALVE (FV)

THREE-WAY PLUG VALVE (TW)

FOUR-WAY VALVE (FW)

GLOBE VALVE (GL)

GATE VALVE (GV)  
CURB STOP (CS)

KNIFE GATE VALVE (KV)

MUD VALVE (MD)

NEEDLE VALVE (NV)

PINCH VALVE (PI)

AUTOMATIC PRESSURE  
REDUCING VALVES (PR)

AUTOMATIC PRESSURE  
SUSTAINING VALVES (PS)

ECCENTRIC PLUG VALVE (PV)

RELIEF VALVE (RV)

SLUICE GATE (SL)

SLIDE GATE (SG)  
SLIDE PLATE (SP)

SOLENOID VALVE (SV)

FO=FAIL OPEN  
FC=FAIL CLOSED

ABBREVIATIONS

PIPE SERVICE

ALP  
CA  
DR  
DG  
HO  
HPW3  
LS  
OF  
POT  
SAM  
SAN

AIR (LOW PRESSURE PROCESS)  
COMPRESSED AIR  
DRAIN  
DIVERTER GATE  
HYDRAULIC OIL  
HIGH PRESSURE PLANT WATER  
LEVEL SENSOR  
OVERFLOW  
POTABLE WATER  
SAMPLE  
SANITARY

VALVE TYPES

AECV  
AFV  
AVV  
BFV  
BLV  
ECV  
GV  
GBV  
KGV  
PRV  
PSV  
SG  
SV

AUTOMATIC ELECTRONIC CONTROL VALVES  
AIR RELEASE VALVE  
AIR VACUUM VALVE  
BUTTERFLY VALVE  
BALL VALVE  
ELECTRIC CHECK VALVE  
GATE VALVE  
GLOBE VALVE  
KNIFE GATE VALVE  
PRESSURE REDUCING VALVE  
PRESSURE SUSTAINING VALVE  
SLUICE GATE  
SOLENOID VALVE

PIPE MATERIALS

BS  
CU  
CPVC  
CS  
DIP  
PVC  
RPVC  
SSTL  
ST

BLACK STEEL  
COPPER  
CHLORINATED POLYVINYL CHLORIDE  
CARBON STEEL  
DUCTILE IRON  
POLYVINYL CHLORIDE  
REINFORCED PVC FLEXIBLE HOSE  
STAINLESS STEEL  
STEEL

EXAMPLE: NEW PIPE LABEL

36"

↑

DIAMETER  
(INCHES)

-

RW

↑

PIPE  
SERVICE

-

DIP

↑

PIPE  
MATERIAL

-

HT/I

↑

HEAT TRACED/  
INSULATED

EXAMPLE: VALVE LABEL

16"

↑

DIAMETER  
(INCHES)

-

BFV

↑

VALVE  
TYPE

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FAYETTE COUNTY WATER  
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FAYETTE  
County  
Water

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ELEVATED WATER  
STORAGE TANK

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DATE: SEPTEMBER 2023

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DESIGNED BY: T. THOMAS

DRAWN BY: M. DEEPALI

CHECKED BY: H. GILES

SHEET TITLE

MECHANICAL

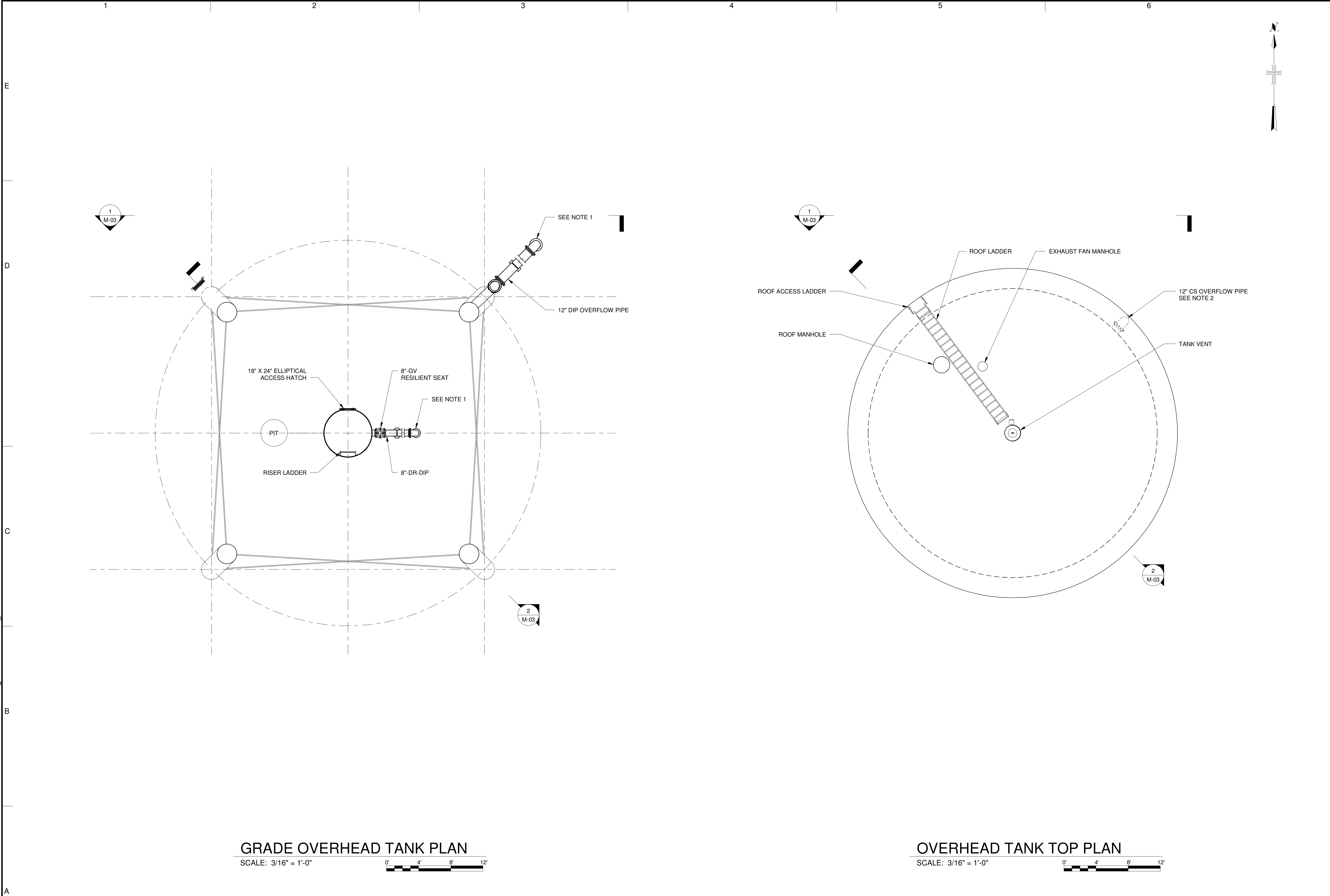
MECHANICAL  
LEGENDS, SYMBOLS  
AND ABBREVIATIONS


SCALE: NTS

M-01

SHEET OF 23

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CHECKED BY: H. GILES

SHEET TITLE

MECHANICAL

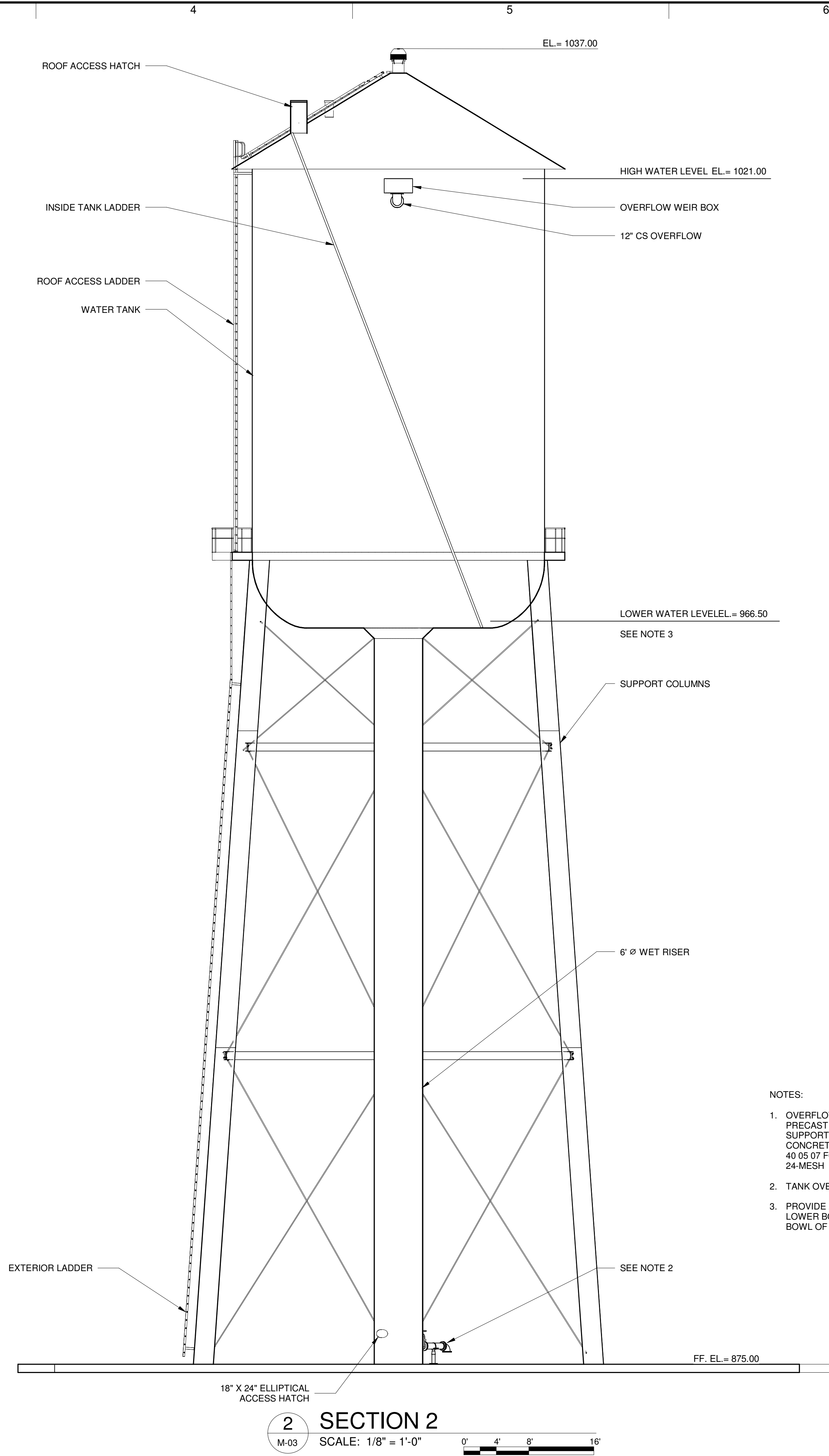
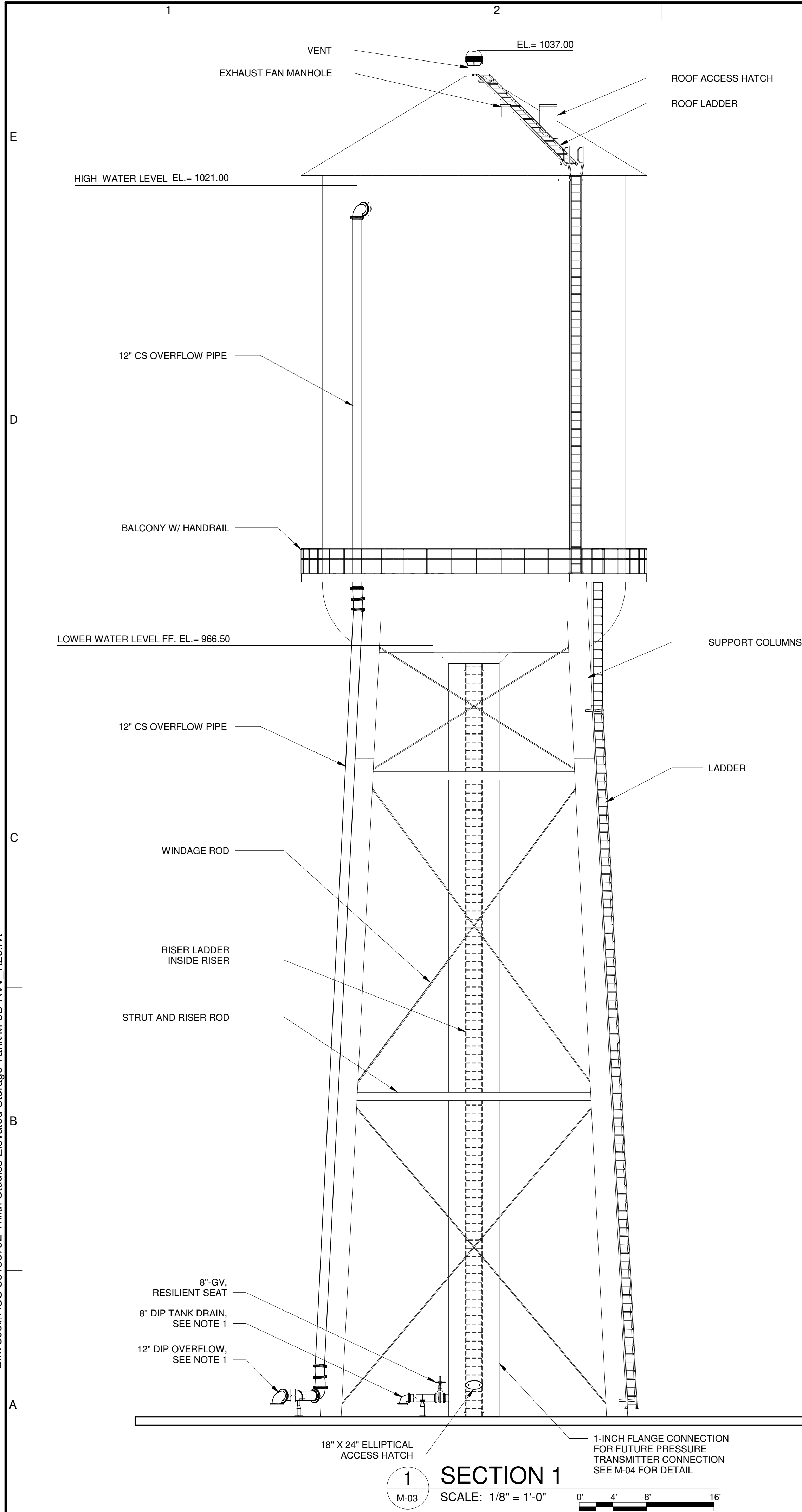
ELEVATED STORAGE  
TANK PLAN

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

M-02

SHEET 21 OF 23

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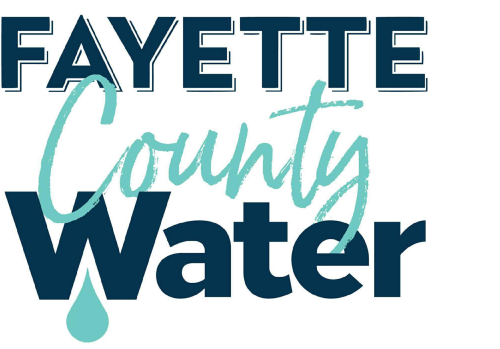
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FILE NAME: M-03

DESIGNED BY: T. THOMAS

DRAWN BY: M. DEEPALI

CHECKED BY: H. GILES

SHEET TITLE

MECHANICAL

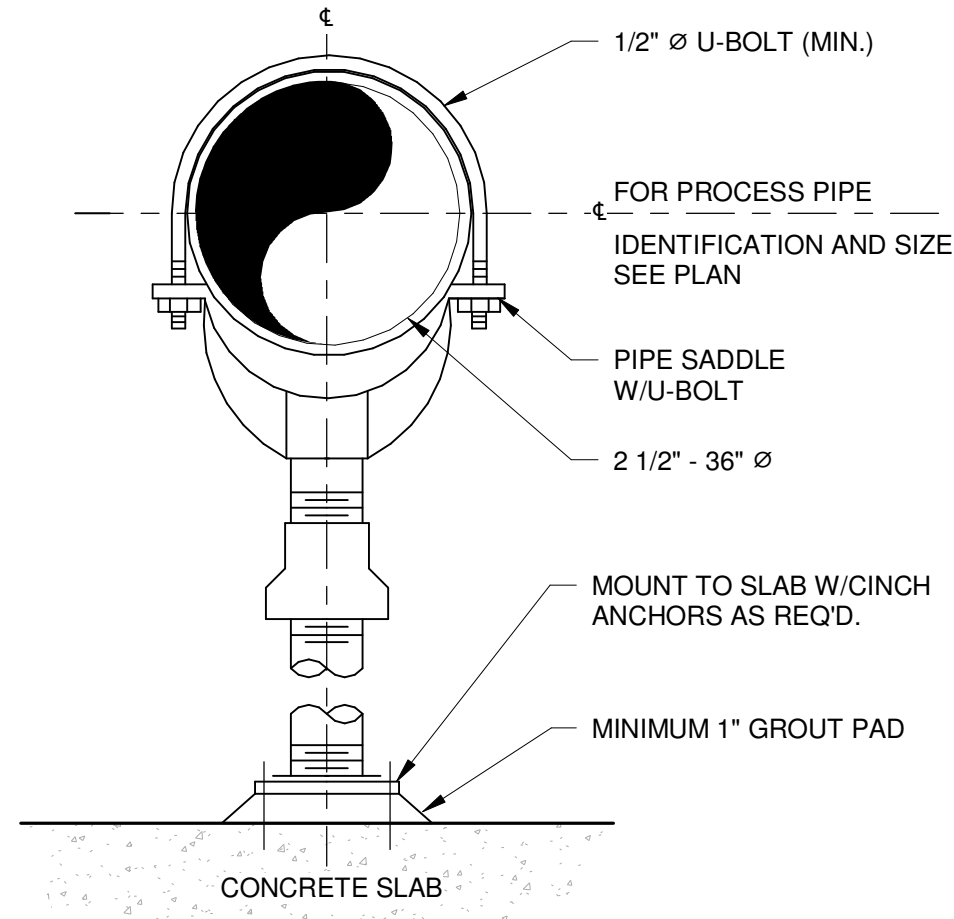
ELEVATED STORAGE  
TANK SECTION

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

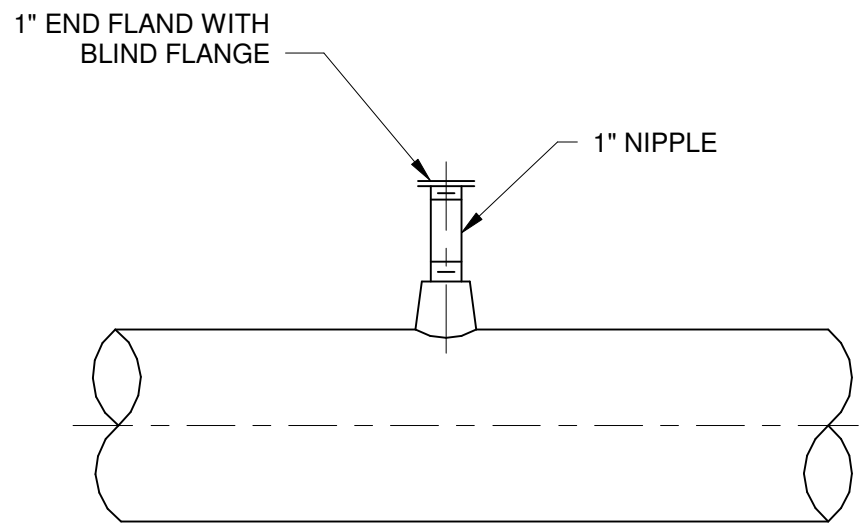
M-03

SHEET 22 OF 23

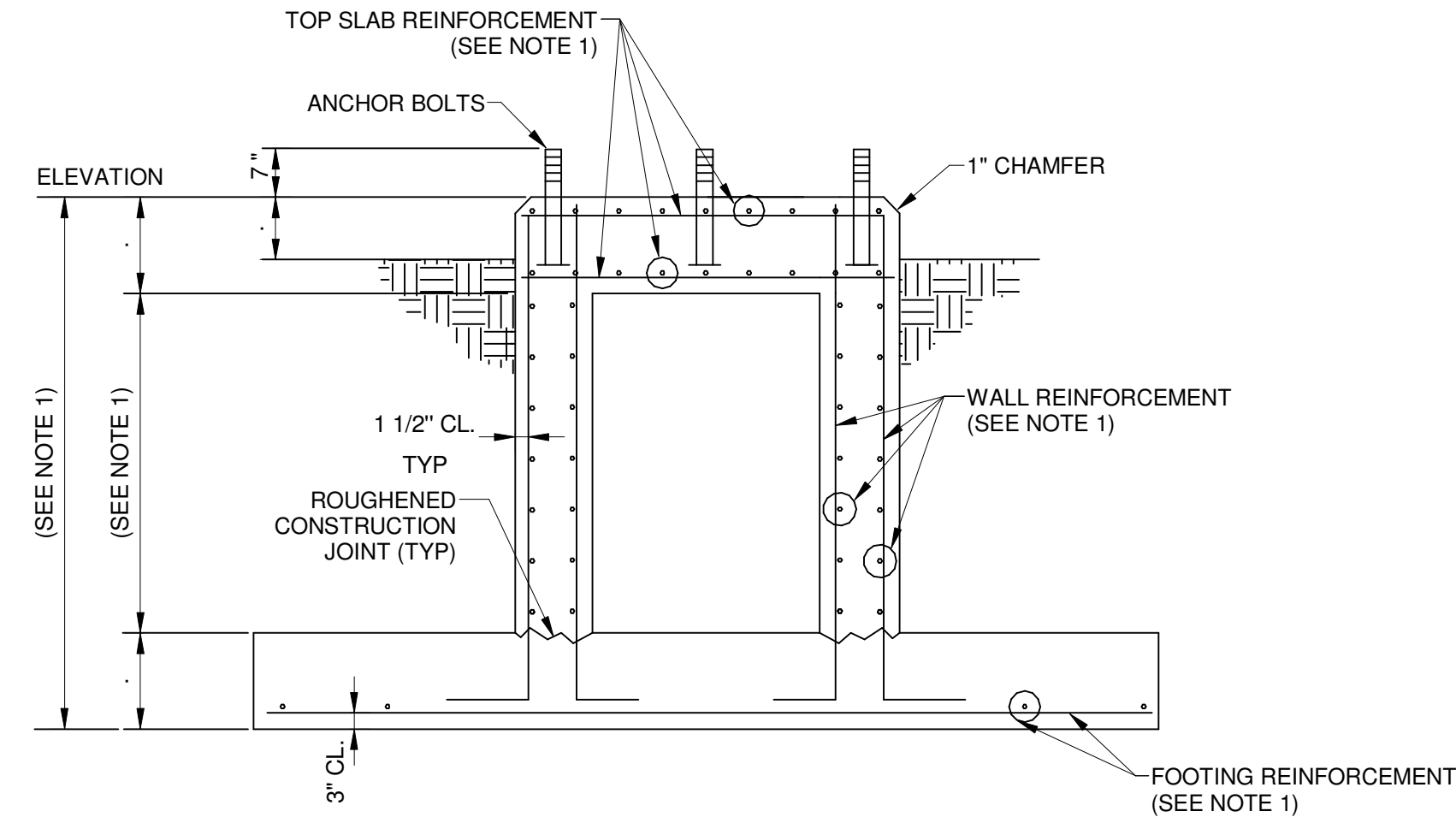
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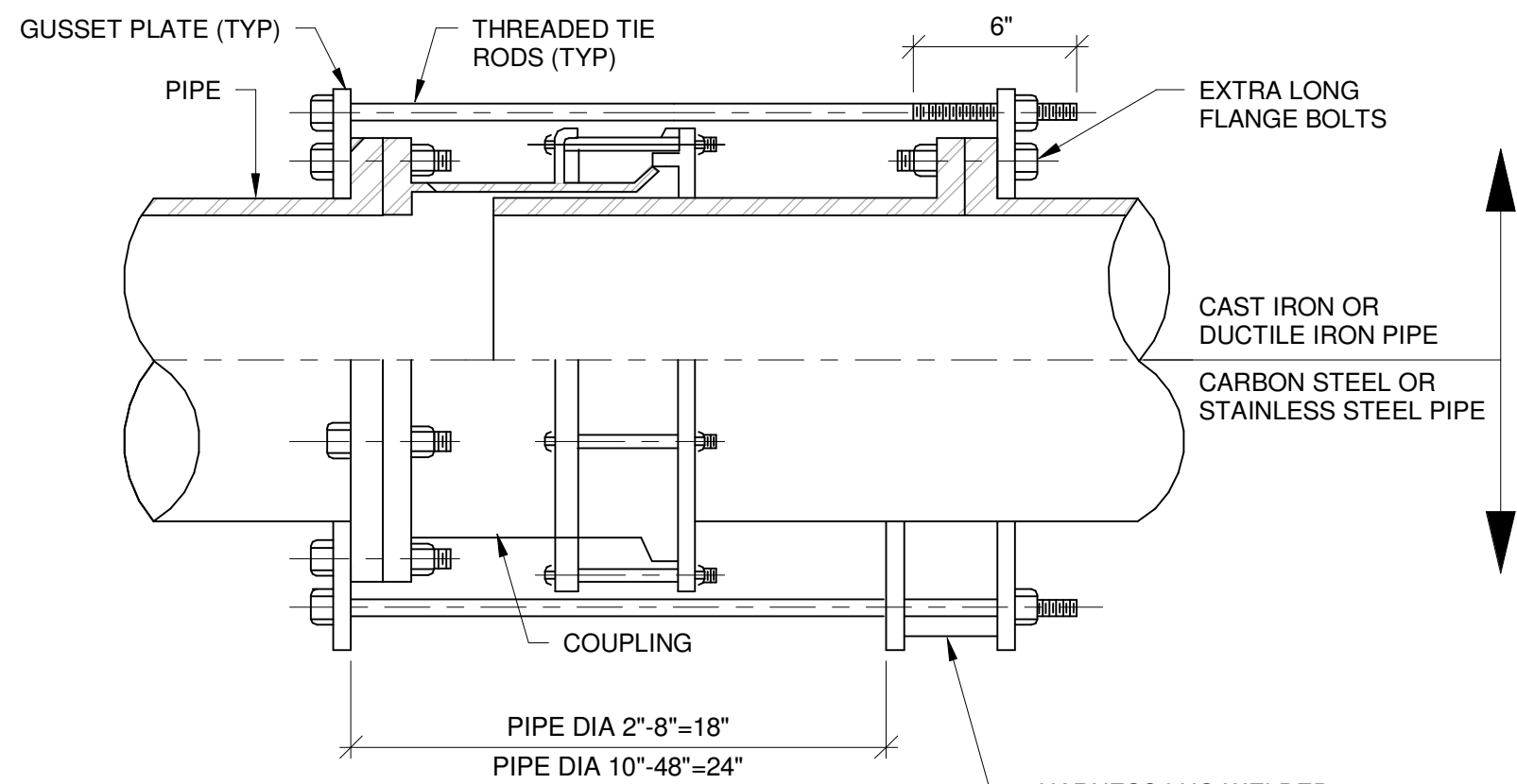
STANCHION PIPE SUPPORT DETAIL  
NOT TO SCALE



1-INCH FLANGE CONNECTION DETAIL FOR FUTURE PRESSURE TRANSMITTER CONNECTION  
NOT TO SCALE

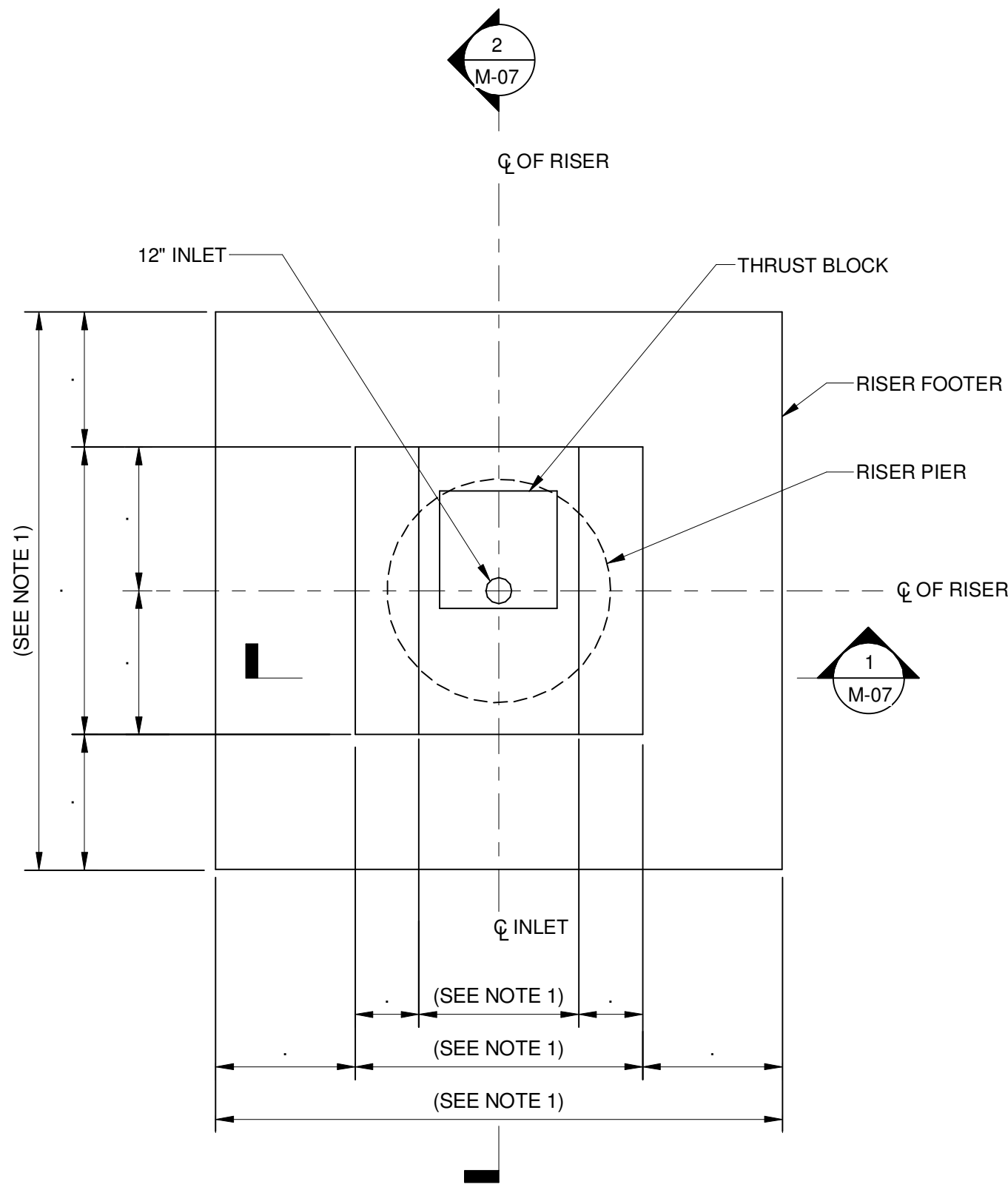


1 SECTION  
M-04 NOT TO SCALE

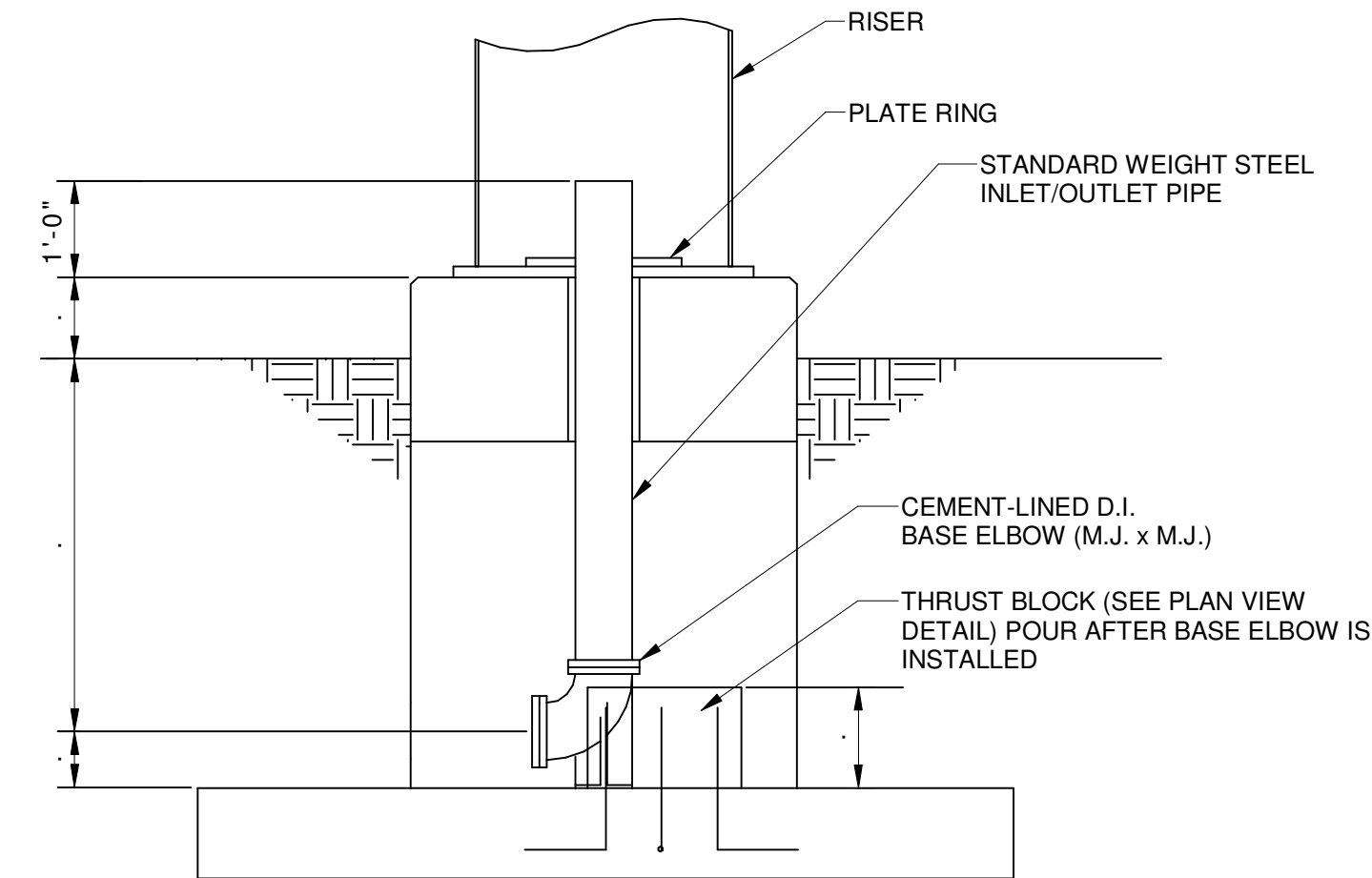


DETAIL NOTE:  
1. THE NUMBER OF TIE RODS, HARNESS LUGS CONFIGURATION AND MATERIAL THICKNESS SHALL BE IN ACCORDANCE WITH ANSI/HI 14.4.A.4.6.1 FOR PIPING CONNECTED TO A PUMP. OTHER PIPING CONNECTIONS SHALL CONFORM TO AWWA M11.

HARNESSED FLANGED COUPLING ADAPTER DETAIL  
NOT TO SCALE



CENTER PIER PLAN  
NOT TO SCALE



2 SECTION  
M-04 NOT TO SCALE

NOTE:  
1. CENTER PIER FOUNDATION DIMENSIONS AND CONCRETE REINFORCEMENT REQUIREMENTS SHALL BE DETERMINED BY TANK CONTRACTOR.



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MECHANICAL

MECHANICAL DETAILS

SCALE: NTS

M-04

SHEET 23 OF 23