GENERAL CONSTRUCTION NOTES

1. PROPERTY LINES SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION. GRADING, CLEARING AND THE ERECTION OR REMOVAL OF FENCES ALONG PROPERTY LINES SHALL BE FULLY COORDINATED WITH ADJACENT PROPERTY OWNERS BEFORE BEGINNING CONSTRUCTION.

2. VERIFY SITE CONDITIONS PRIOR TO CONSTRUCTION. NOTIFY THE CITY CONSTRUCTION INSPECTION OFFICE & ENGINEER OF ANY VARIATIONS PRIOR TO COMMENCEMENT OF WORK.

3. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTIES.

4. THE CONTRACTOR SHALL INSTALL AND MAINTAIN ALL EROSION CONTROL MEASURES PRIOR TO INITIATING CONSTRUCTION. SEE SPECIFIC NOTES, DRAWINGS, & DETAILS FOR MEASURES REQUIRED.

5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSURE THAT ALL REQUIRED PERMITS HAVE BEEN OBTAINED PRIOR TO BEGINNING ANY CONSTRUCTION.

6. ANY EXISTING ASPHALT PAVEMENT, PRIVACY FENCES AND WALLS, CONCRETE CURBS, OR SIDEWALKS DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITY SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

7. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF ANY TRENCH STABILIZATION REQUIRED BY OSHA CONSTRUCTION STANDARD FOR EXCAVATIONS, 29 CFR PART 1926, SUBPART P.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION RELATED SURVEYING, INCLUDING ALL LAYOUT AND GRADE STAKING. THE CONTRACTOR WILL ALSO BE RESPONSIBLE FOR GEOTECHNICAL TESTING.

9. THE CONTRACTOR SHALL NOTIFY THE CITY OF MILLINGTON, TN A MINIMUM OF 24 HOURS PRIOR TO BEGINNING CONSTRUCTION.

10. ALL FILL SOILS SHALL BE COMPACTED TO A MINIMUM OF 95% PROCTOR DENSITY (ASTM D-98) WITHIN 3% OF OPTIMUM MOISTURE CONTENT IN LIFTS NOT TO EXCEED EIGHT (8) INCHES OF COMPACTED THICKNESS.

11. ALL NEWLY CUT OR FILLED AREAS, LACKING ADEQUATE VEGETATION, SHALL BE SEEDED, MULCHED FERTILIZED AND OR SODDEN AS REQUIRED TO EFFECTIVELY CONTROL SOIL EROSION.

12. THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE AND NOT NECESSARILY ALL OF SAME. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE UTILITY COMPANIES WHICH MAINTAIN A UTILITY LINE WITHIN THE BOUNDARIES OF THE PROJECT PRIOR TO THE INITIATION OF ANY CONSTRUCTION ON THE PROJECT OR IN THE STREETS BORDERING THE PROJECT. THE CONTRACTOR SHALL ALSO ASSUME FULL RESPONSIBILITY FOR DAMAGE TO ANY UTILITIES ENCOUNTERED WITHIN CONSTRUCTION PERIMETERS, WHETHER SHOWN ON THE CONSTRUCTION PLANS OR NOT, DURING WORK ON THE PROJECT. FOR SITE LOCATION OF EXISTING UTILITIES CALL TN ONE CALL AT 811.

13. ALL GRADING WORK SHALL BE PERFORMED IN SUCH A MANNER THAT ADJACENT PROPERTIES ARE NOT DAMAGED OR ADVERSELY AFFECTED.

14. EXISTING SITE CONDITIONS AND TOPOGRAPHY SHOWN ON THIS PLAN ARE TAKEN FROM A FIELD RUN TOPOGRAPHIC SURVEY BY LI SMITH INC.

GENERAL UTILITY NOTES

1. EXISTING UTILITY LINES SHOWN ARE APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LINE LOCATIONS PRIOR TO BEGINNING CONSTRUCTION.

2. THE CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGAURD EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE UTILITIES, THE CONTRACTOR WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT. THE COST OF PROTECTING UTILITIES FROM DAMAGE AND FURNISHING SPECIAL EQUIPMENT WILL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.

3. THE CONTRACTOR SHALL NOTIFY EACH INDIVIDUAL UTILITY OWNER OF HIS PLAN OF OPERATION IN THE AREA OF THE UTILITIES, PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL CONTACT THE UTILITY OWNERS AND REQUEST THEM TO PROPERLY LOCATE THEIR RESPECTIVE UTILITY ON THE GROUND. THIS NOTIFICATION SHALL BE GIVEN AT LEAST (3) BUSINESS DAYS PRIOR TO COMMENCEMENT OF OPERATIONS AROUND THE UTILITY.

4. THE CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES IN SUCH MANNER AS TO AVOID CONFLICTS AND ASSURE PROPER DEPTHS ARE ACHIEVED AS WELL AS COORDINATING WITH THE REGULATORY AGENCY AS TO LOCATION AND SCHEDULING OF TIE-INS/CONNECTIONS TO THEIR FACILITIES.

5. ALL UNDERGROUND UTILITIES (WATER, SEWER, STORM SEWER, ELECTRICAL CONDUIT, IRRIGATION SLEEVES, AND ANY OTHER MISCELLANEOUS), SHALL BE IN-PLACE PRIOR TO THE PLACEMENT OF BASE COURSE MATERIAL.

6. LOCATION OF SITE UTILITIES SHALL BE VERIFIED WITH PROPER UTILITY COMPANY PROVIDING SERVICE.

7. UTILITY CONTRACTOR WILL BE RESPONSIBLE FOR ALL TAP AND TIE ON FEES REQUIRED, AS WELL AS COST OF UNDERGROUND SERVICE CONNECTIONS TO THE LOTS.

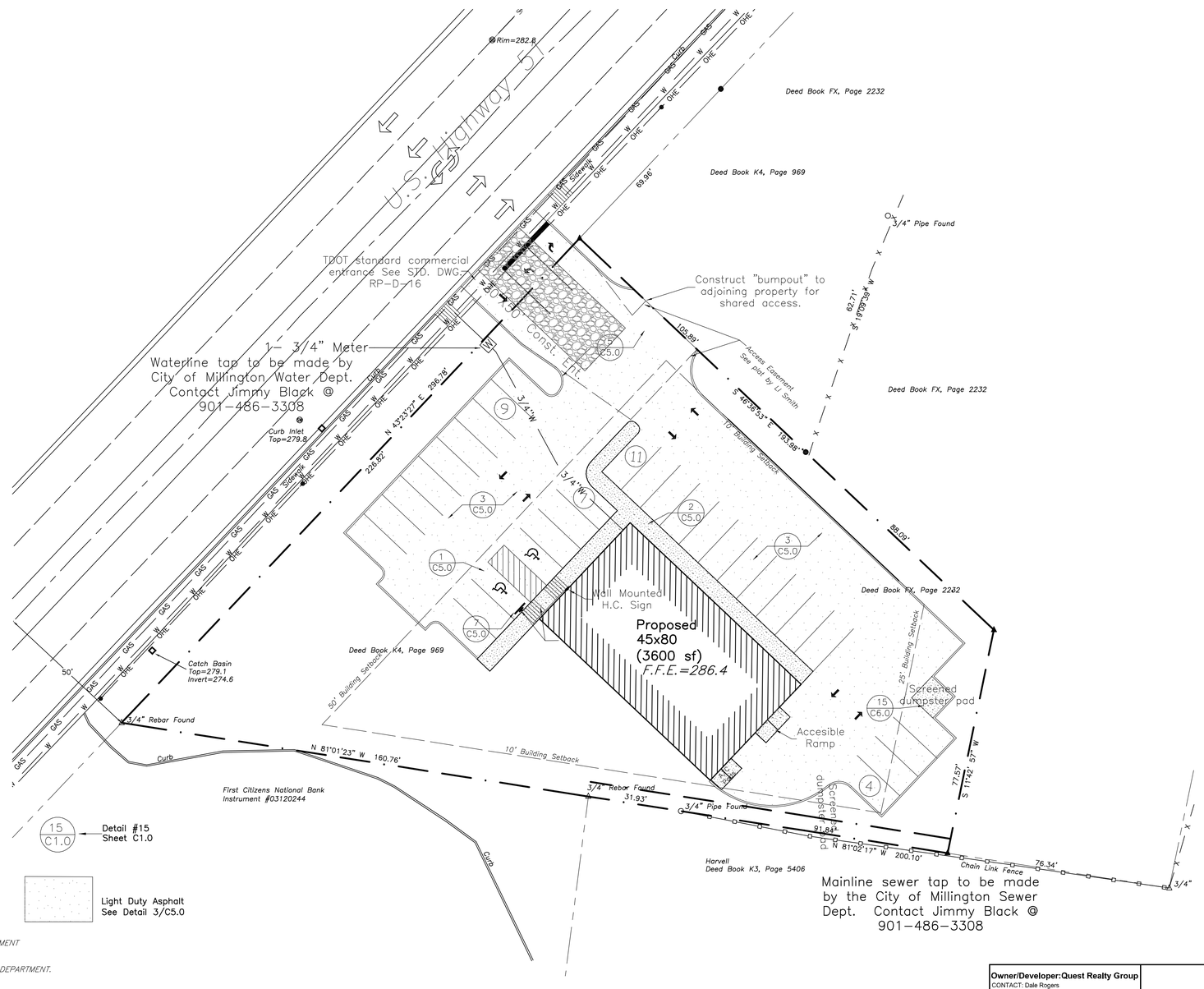
8. THE CONTRACTOR SHALL PROVIDE A SUITABLE OFFICE NEAR THE SITE FOR HIS USE AND AT WHICH COPIES OF THE SPECIFICATIONS AND DRAWINGS SHALL BE KEPT. THE CONTRACTOR SHALL ALSO DESIGNATE TO THE OWNER A PERSON TO BE NOTIFIED IN CASE OF EMERGENCIES OTHER THAN DURING WORKING HOURS AND ON HOLIDAYS AND WEEKENDS.

9. STREETS SHALL BE GRADED TO SUBGRADE BEFORE WATER LINES AND SANITARY SEWERS ARE INSTALLED.

10. THE OWNER/DEVELOPER FOR BUDGET PURPOSES, SHOULD CHECK WITH THE MILLINGTON, TN UTILITY DEPARTMENT FOR CONNECTION FEES WHICH MAY BE SUBSTANTIAL.

11. CONTRACTORS FOR WATER AND SEWER WORK MUST BE APPROVED BY THE CITY OF MILLINGTON, TN UTILITY DEPARTMENT.

12. IN TENNESSEE IT IS A REQUIREMENT PER "THE UNDERGROUND UTILITY DAMAGE PREVENTION ACT" THAT ANYONE WHO ENGAGES IN EXCAVATION MUST NOTIFY ALL KNOW UTILITY OWNERS, NO LESS THAN THREE NOR MORE THAN TEN WORKING DAYS , PRIOR TO THEIR INTENDED EXCAVATION. A LIST OF THESE UTILITY OWNERS MAY BE OBTAINED FROM THE COUNTY REGISTER OF DEEDS. THOSE UTILITY OWNERS WHO PARTICIPATE IN THE TENNESSEE ONE CALL SYSTEM CAN BE NOTIFIED TOLL FREE AT 811.



Backflow Preventer Note: Backflow prevention device will be located in the janitorial room 109. See building plans.

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N

0' 20' 40' 60'

SITE PLAN
SCALE 1"=20'

Owner/Developer:Quest Realty Group
CONTACT: Dale Rogers
9930 Hwy 100
Scotts Hill, TN 38374

Land Data:
Zoning: B2
Area: 0.76Ac. +/-

Floodplain Note:
This site lies wthin Zone X, areas outside the 0.2% Anuual Chance floodplain, per FEMA Community Panel 47157C0160G, dated Feb. 6, 2013.

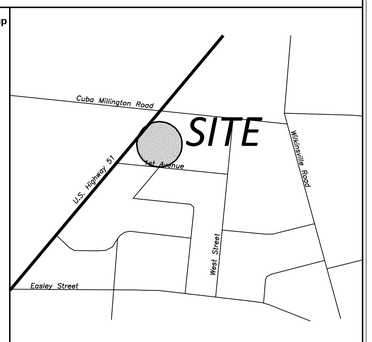
Total Floor Area:
Proposed: Total 3600SF

Yard Requirements:
Front: 50'
Side: 10'
Rear: 25'

Deed Reference:
Deed Bk FX, Page 2232
Deed Bk. K4, PG. 969
Tax Map M0115, Parcel 8.14

Intended Use:
Medical Clinic

Parking Requirements:
Classified as:Medical Clinic
Required:1 Space per 150 sq. ft.
Required: 24 Spaces
Provided: 31 Spaces (2 Handicap)



VICINITY MAP

SEAL

MBCIVIL ENGINEERING, LLC
P.O. BOX 601 759 TIMBER RIDGE DR. LEXINGTON, TN 38351
VOICE:731-431-5498 adam@mbcivil.net

PROJECT
Fast Pace Medical Clinic
HWY 51 NORTH-HARWELL PROPERTY
Millington, TN

REVISION DATES
OCT. 13, 2016

DATE
OCT. 6, 2016

SHEET
C-1.0 OF 6

JOB No.

GENERAL EROSION CONTROL NOTES

1. ALL NEWLY CUT OR FILL AREAS LACKING ADEQUATE VEGETATION SHALL BE FERTILIZED, MULCHED, AND SEEDED, AND /OR SODDEN TO EFFECTIVELY CONTROL SOIL EROSION.

2. A SPECIFIC INDIVIDUAL SHALL BE DESIGNATED TO BE RESPONSIBLE FOR EROSION AND SEDIMENT CONTROLS ON EACH PROJECT SITE.

3. A COPY OF THE EROSION CONTROL PLAN MUST BE AVAILABLE ON SITE FOR THE DWPC INSPECTOR ON REQUEST. SEE SUGGESTED LOCATION ON PLAN.

4. EROSION AND SEDIMENT CONTROL MEASURES MUST BE IN PLACE AND FUNCTIONAL BEFORE ANY EARTH MOVING OPERATION BEGINS, AND MUST BE CONSTRUCTED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. TEMPORARY MEASURES MAY BE REPLACED AT THE END OF THE WORK DAY, OR PRIOR TO RAINFALL EVENTS.

5. ALL CONTROL MEASURES SHALL BE CHECKED TWICE WEEKLY NO GREATER THAN 72 HOURS APART AND SHALL MAINTAIN 50% OF ITS DESIGN CAPACITY AT ALL TIMES.

6. ALL EXCAVATING AND CLEARING SHALL BE COORDINATED TO PREVENT ANY SURFACE FROM REMAINING UNCOVERED FOR MORE THAN 15 DAYS, GRAVEL SHALL NOT BE CONSIDERED AS COVER.

7. ALL STRUCTURES AND PRACTICES SHALL BE BUILT OR PERFORMED AS PER THE TDEC EROSION AND SEDIMENT CONTROL HANDBOOK.

8. ALL AREAS USED TO TEMPORARILY STORE TOPSOIL OR OTHER ERODABLE MATERIAL SHALL BE PROTECTED FROM EROSION ACCORDING TO THE DETAIL ON THIS PLAN. IF THESE AREAS ARE TO REMAIN IN PLACE FOR LONGER THAN 15 DAYS THEY SHOULD BE SEEDED AND MULCHED TO ESTABLISH GOOD GROUND COVER.

9. ALL DITCHES ON THE PROJECT SHOULD BE STABILIZED WITH SEED AND MULCH OR EROSION CONTROL MATTING AS SOON AS FINAL GRADING OPERATIONS HAVE CEASED.

EROSION CONTROL NOTES

1. THE SITE CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING AND MAINTAINING SUITABLE EROSION AND SEDIMENT CONTROL DEVICES ON-SITE DURING CONSTRUCTION AS REQUIRED TO PREVENT SILT FROM LEAVING SITE. SILT WILL NOT BE ALLOWED BEYOND CONSTRUCTION LIMITS.

2. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING EXCESS SILT FROM SITE AND ASSURING PLAN ALIGNMENT AND GRADE IN ALL DITCHES AT THE COMPLETION OF CONSTRUCTION.

3. THE CONTRACTOR IS RESPONSIBLE FOR CLEANING OUT ALL STORM DRAINAGE STRUCTURES, INCLUDING FLUMES, PIPES, ETC., PRIOR TO COMPLETION OF THIS PROJECT.

4. EROSION CONTROL SHALL BE PROVIDED FOR ALL CUT AND FILL OPERATIONS WITHIN THE LIMITS OF THE CONSTRUCTION SITE, THOUGHOUT THE CONSTRUCTION PERIOD TO PROVIDE THE SITE WITH THE MAXIMUM PROTECTION FROM EROSION AT ALL TIMES.

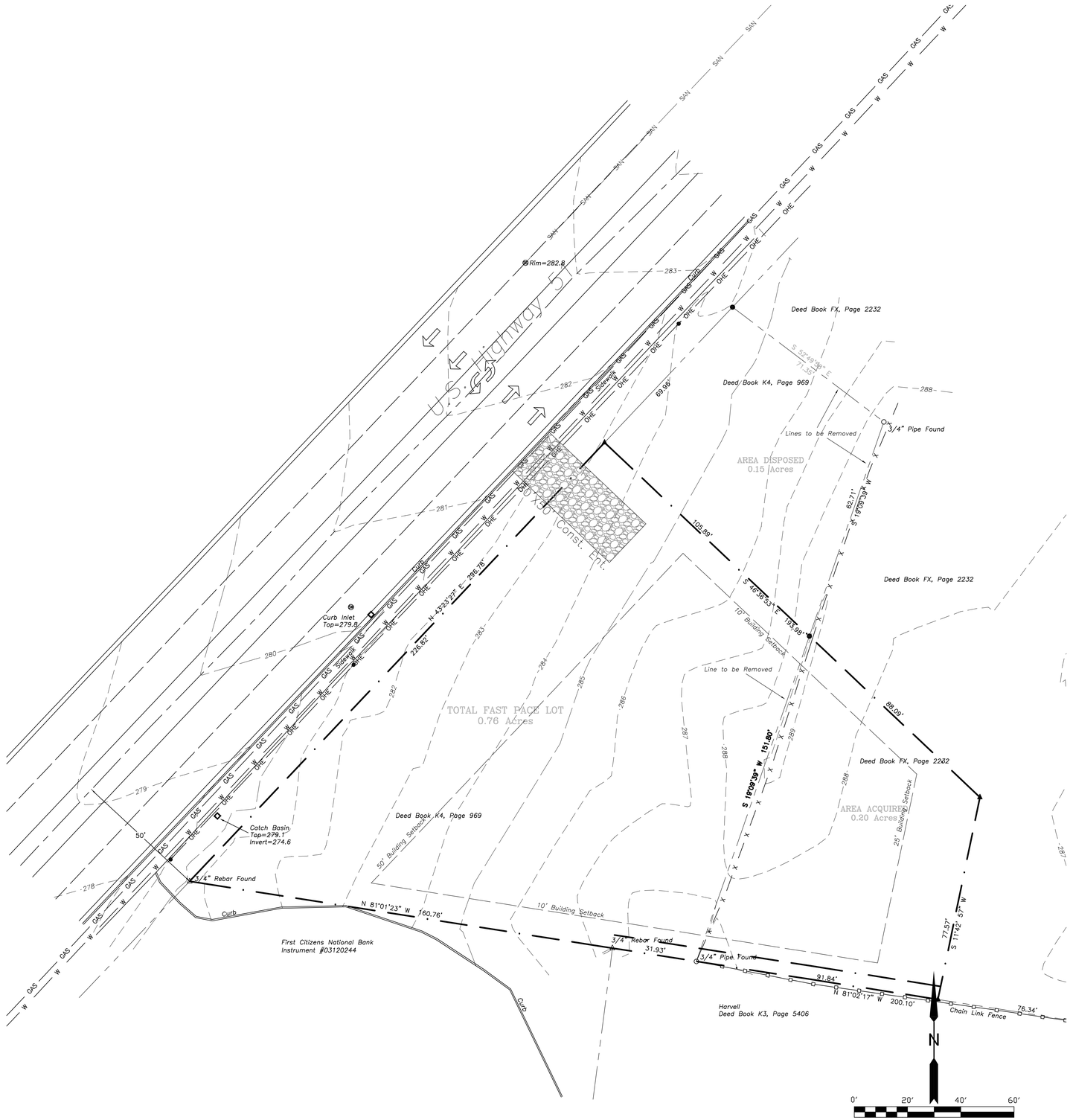
5. EROSION CONTROL MEASURES ARE TO BE INSTALLED PRIOR TO ANY GRADING ON-SITE AND ARE TO BE MAINTAINED IN PLACE UNTIL STABILIZATION OF ERODABLE SOILS HAS BEEN ACCOMPLISHED.

EPSC PHASING

1. INSTALL CONSTRUCTION ENTRANCE/EXIT.

2. INSTALL SILT FENCE @ DOWNSLOPE AREAS.

3. COMMENCE GRADING OPERATIONS.



PRELIMINARY EROSION CONTROL

SCALE 1"=20'

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ADAM T. LEDSINGER
REGISTERED ENGINEER
AGRICULTURE
No. 111555
STATE OF TENNESSEE
10-4-16
SEAL

MB CIVIL ENGINEERING, LLC
P.O. BOX 601 759 TIMBER RIDGE DR. LEXINGTON, TN 38351
VOICE:731-431-5498 adam@mbcivil.net

PROJECT
Fast Pace Medical Clinic
HWY 51 NORTH-HARWELL PROPERTY
Millington, TN

REVISION DATES	OCT. 13, 2016
DATE	OCT. 6, 2016
SHEET	C-2.0 OF 6
JOB No.	

GRADING AND DRAINAGE NOTES

1. THE SITE WORK CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL UNDERGROUND UTILITIES (WATER, SANITARY SEWER, STORM SEWER, ELECTRICAL CONDUIT, IRRIGATION SLEEVES, AND ANY OTHER MISCELLANEOUS UNDERGROUND UTILITIES, DEVICES, OR STRUCTURES), SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF THE BASE COURSE MATERIAL.

2. THE CONTRACTOR SHALL CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE SMOOTH FIT AND CONTINUOUS GRADE.

3. THE CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING STORM SEWER STRUCTURES, PIPES AND ALL UTILITIES PRIOR TO CONSTRUCTION.

4. CLEARING AND GRUBBING LIMITS SHALL INCLUDE ALL AREAS DISTURBED BY GRADING OPERATION

5. ANY GRADED OR DISTURBED AREAS SHALL HAVE 4 INCHES OF TOPSOIL, SEED, MULCH, FERTILIZER AND WATER APPLIED UNTIL A HEALTHY STAND OF GRASS IS OBTAINED. THE RESTORATION SHALL CLOSELY FOLLOW CONSTRUCTION.

6. THE EXISTING SOIL MATERIAL HEREON MAY BE DISTURBED BY CUTTING OR FILLING OPERATIONS PERFORMED DURING OR BEFORE DEVELOPMENT. THEREFORE, THE BUILDER OR DEVELOPER OF ANY PROPOSED STRUCTURE SHALL INVESTIGATE THE CURRENT CONDITIONS AND CONSULT WITH A GEOTECHNICAL EXPERT OR OTHER QUALIFIED PERSON AS HE DEEMS APPROPRIATE TO ASSURE HIMSELF THAT THE DESIGN OF THE PROPOSED FOUNDATION IS ADEQUATE.

7. THIS SITE LIES WITHIN ZONE X, OUTSIDE THE 0.2% ANNUAL CHANCE AREA, PER FEMA NFIP FIRM MAP NUMBER 47157C0160G, BEARING A MAP EFFICTIVE DATE. FEB. 6, 2013

8. A SEPARATE R.O.W. PERMIT ISSUED BY THE THE CITY OF MILLINGTON AND TDOT WILL BE REQUIRED FOR EXCAVATION AND CONSTRUCTION IN THE PUBLIC R.O.W.

9. HANDICAP PARKING SPACES AND ACCESSIBLE ROUTES SHALL BE CONSTRUCTED AND SLOPED IN ACCORDANCE WITH ALL PROVISIONS OF THE A.D.A.

10. IN TENNESSEE IT IS A REQUIREMENT PER "THE UNDERGROUND UTILITY DAMAGE PREVENTION ACT" THAT ANYONE WHO ENGAGES IN EXCAVATION MUST NOTIFY ALL KNOWN UTILITY OWNERS, NO LESS THAN THREE AND NO MORE THAN TEN WORKING DAYS PRIOR TO THEIR INTENDED EXCAVATION. A LIST OF THESE UTILITY OWNERS MAY BE OBTAINED FROM THE COUNTY REGISTER OF DEEDS. THOSE UTILITY OWNERS WHO PARTICIPATE IN THE TENNESSEE ONE CALL SYSTEM CAN BE NOTIFIED TOLL FREE AT 811.

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Grading and Erosion Control Legend	
Existing Contour	345
Proposed Contour	345
Storm Structure	
Proposed Storm	STM
Inlet Protection	
Structure/Pipe ID	#2 B
Silt Fence	SF
EX. SPOT ELEV.	×479.6
PROP. SPOT ELEV.	+74.8

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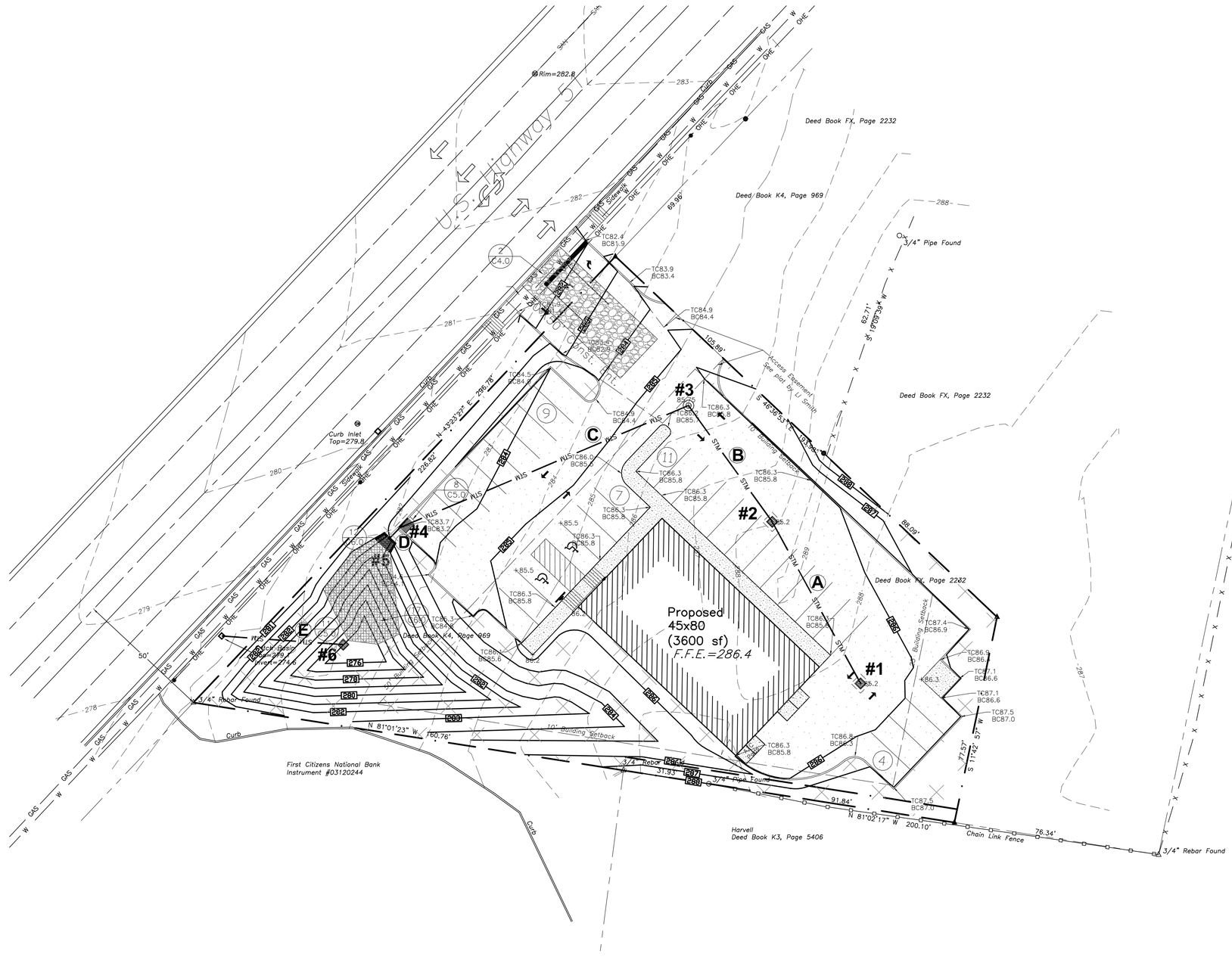

14 C2.0 — Detail #14 Sheet C2.0

DRAINAGE STRUCTURE TABLE					
STR #	T.O.C.	INV. (IN)	INV. (OUT)	DESCRIPTION	STRUCTURE NUMBER
1	285.20	---------	282.90	Catch Basin	JBS 4074
2	285.20	282.50	282.50	Catch Basin	JBS 4074
3	285.75	282.20	281.90	Manhole	SEE DETAIL 16/C-6.0
4	283.20	280.60	280.60	Curb Inlet	JBS 3101
5	---------	---------	280.20	Manhole	Headwall Detail 12/C6.0
6				pond outlet	Pond outlet detail 11/C5.0

PIPE TABLE					
PIPE	SIZE/TYPE	INV. (IN)	INV. (OUT)	SLOPE %	LENGTH (FT)
A	12" HDPE	282.90	282.50	0.59	68
B	12" HDPE	282.50	282.20	0.58	52
C	15" HDPE	281.90	280.60	1.13	115
D	15" HDPE	280.60	280.20	8.00	5
E	12" HDPE	275.4	275.1	0.67	45

N

0' 20' 40' 60'

GRADING AND DRAINAGE PLAN

SCALE 1"=20'

ADAM T. LEDSINGER — AGRICULTURE — STATE OF TENNESSEE — 10/4/16

SEAL

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PROJECT

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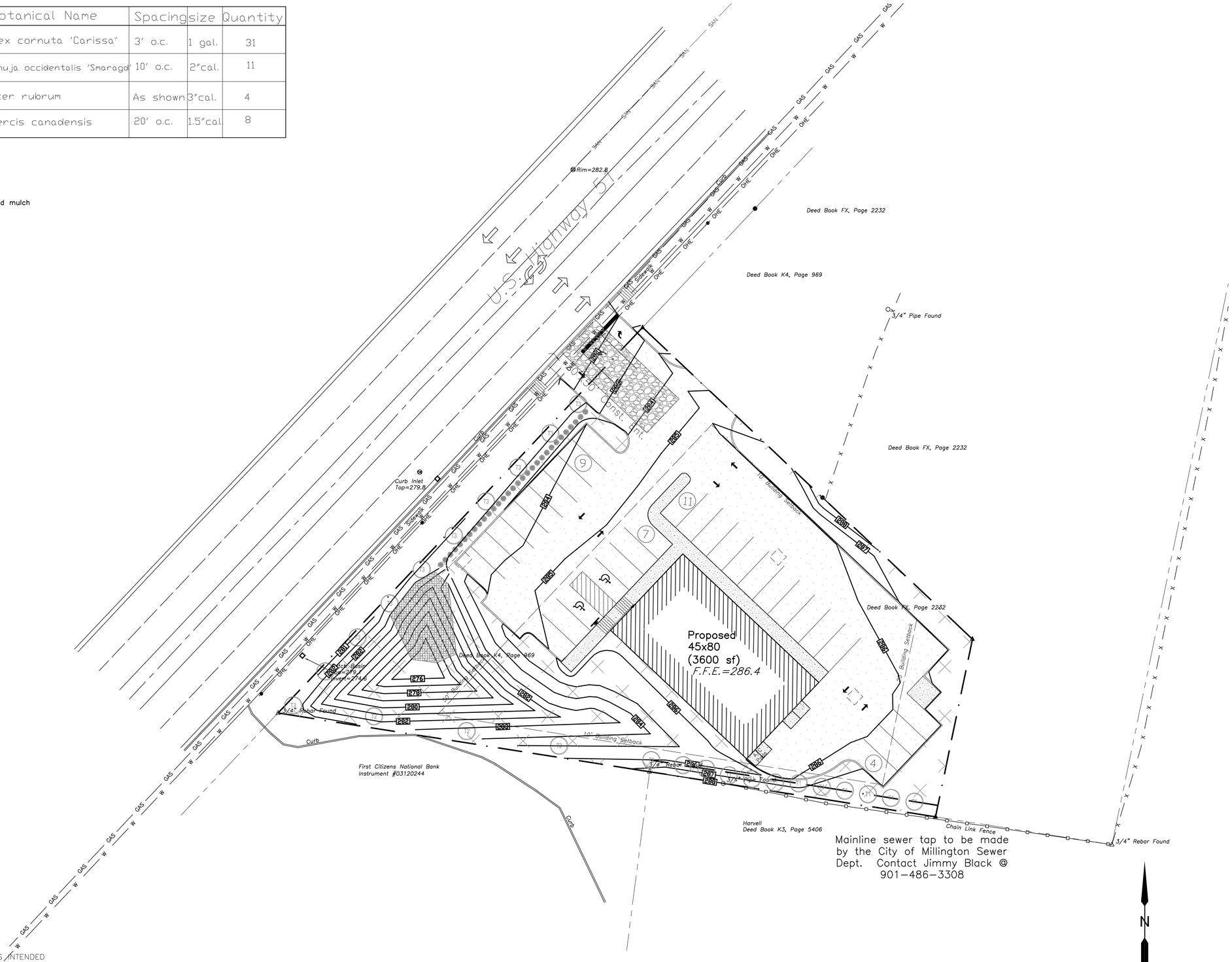
JOB No.

Symbol	Common Name	Botanical Name	Spacing	size	Quantity
●	Carissa Holly	Ilex cornuta 'Carissa'	3' o.c.	1 gal.	31
T1	Emerald Green Arborvitae	Thuja occidentalis 'Smaragd'	10' o.c.	2"cal.	11
T2	Red Maple	Acer rubrum	As shown	3"cal.	4
T3	Eastern Redbud	Cercis canadensis	20' o.c.	1.5"cal	8

Areas to be stabilized with seed and mulch



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FINAL STABILIZATION & LANDSCAPE PLAN

SCALE 1"=20'

ADAM T. LEDSINGER
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
STATE OF TENNESSEE
10-6-16
SEAL

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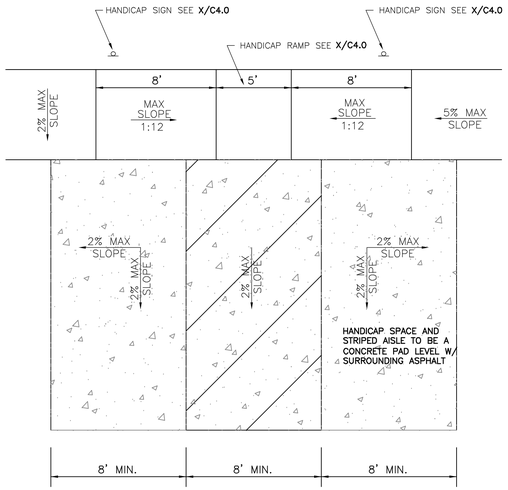
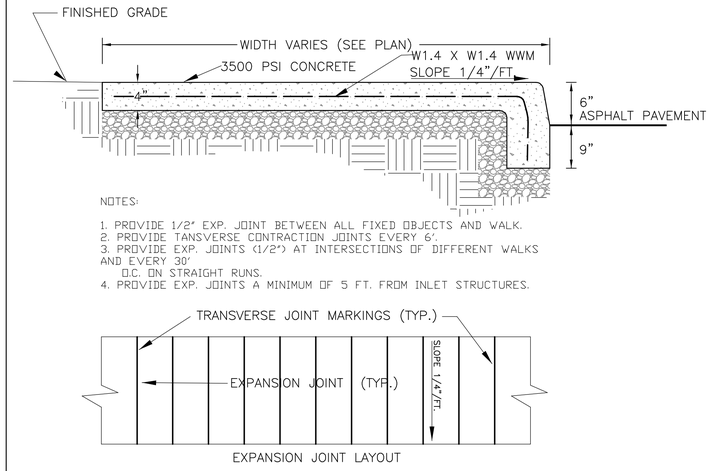
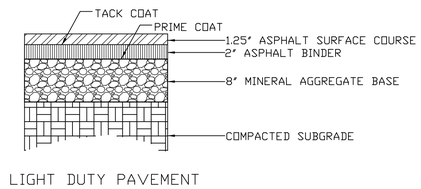


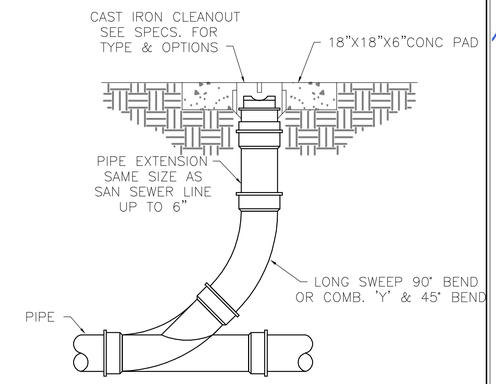
1 HANDICAP PARKING SPACE DETAIL
N.T.S.



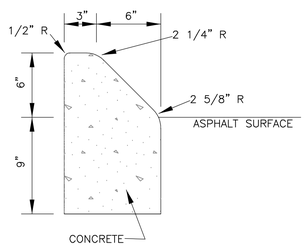
2 CONCRETE SIDEWALK WITH TURNDOWN CURB
N.T.S.



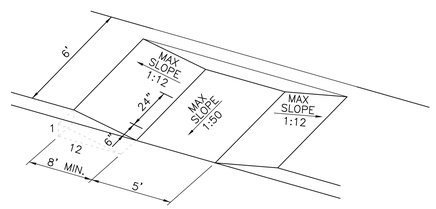
3 TYPICAL PAVEMENT SECTIONS
N.T.S.



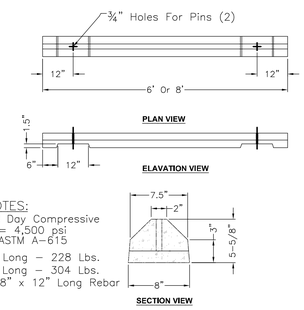
4 EXTERIOR CLEANOUT DETAIL
N.T.S.



5 6" MOUNTABLE DETACHED CURB DETAIL
N.T.S.

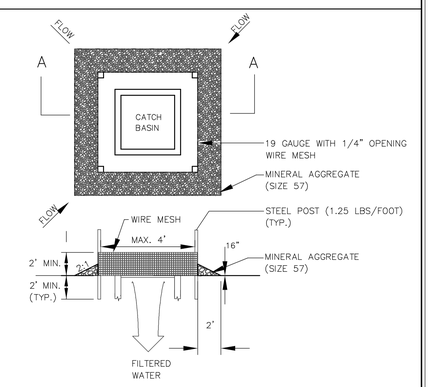


6 HANDICAP RAMP DETAIL
N.T.S.

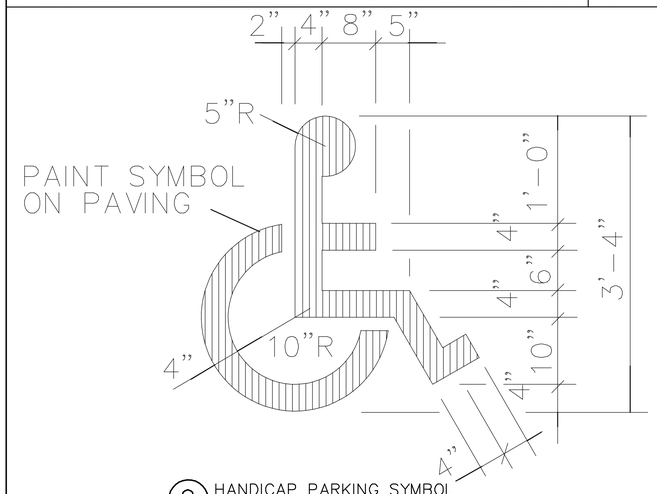


GENERAL NOTES:
1. Concrete: 28 Day Compressive Strength fc = 4,500 psi
Reinforcing: ASTM A-615
2. Weights: 6' Long – 228 Lbs.
8' Long – 304 Lbs.
3. Pins Are 5/8" x 12" Long Rebar

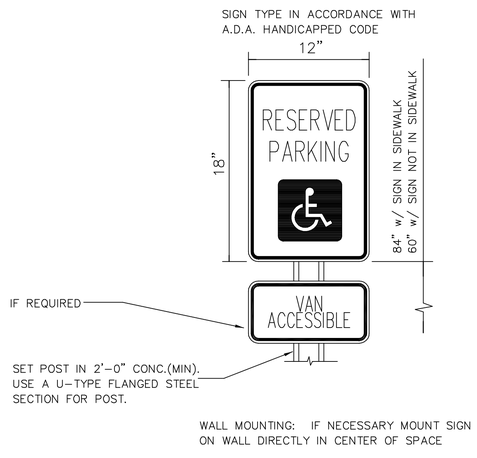
7 CONCRETE WHEEL STOP W/DRAIN SLOTS
N.T.S



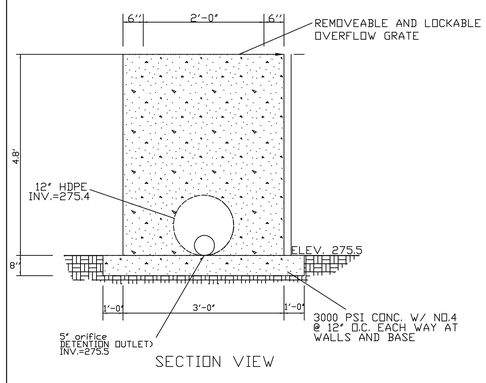
8 Hardware Cloth and Gravel Inlet Protection
N.T.S.



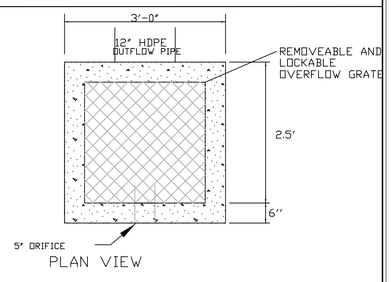
9 HANDICAP PARKING SYMBOL
N.T.S.

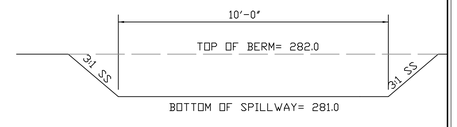


10 HANDICAP SIGN DETAIL
N.T.S.



11 POND OUTLET DETAIL
N.T.S.





DETAILS
NO SCALE

ADAM T. LEDSINGER
REGISTERED ENGINEER
AGRICULTURE
No. 112280
STATE OF TENNESSEE
10-4-16
SEAL

MBCIVIL ENGINEERING, LLC
P.O. BOX 601 759 TIMBER RIDGE DR. LEXINGTON, TN 38351
VOICE:731-431-5498 adam@mbcivil.net

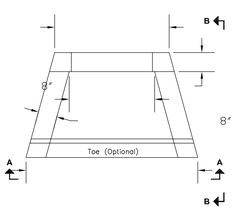
PROJECT
Fast Pace Medical Clinic
HWY 51 NORTH-HARWELL PROPERTY
Millington, TN

REVISION DATES
OCT. 13, 2016

DATE
OCT. 6, 2016

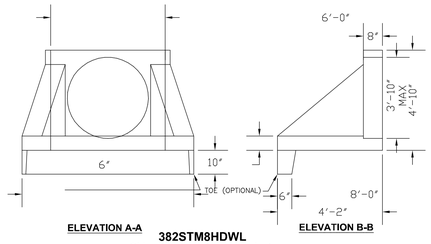
SHEET
C-5.0
OF
6

JOB No.



Size	8'
Max. CMP	42"
Max. RCP	36"
WT./#	5625
WT./ft. W/Toe	6175

Note: Toe is req'd on this project



ELEVATION A-A

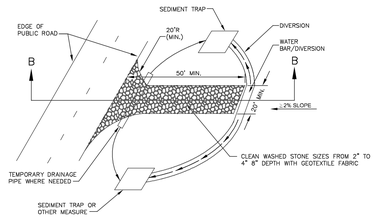
ELEVATION B-B

382STM8HDWL

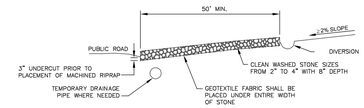
Oldcastle precast or equivalent

12 8' WINGED HEADWALL

N.T.S.



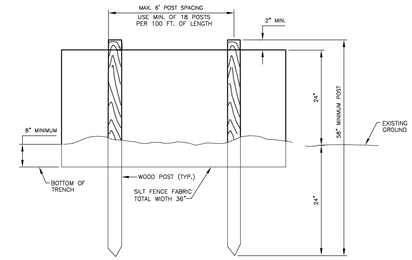
PLAN VIEW OF TEMPORARY CONSTRUCTION ROAD



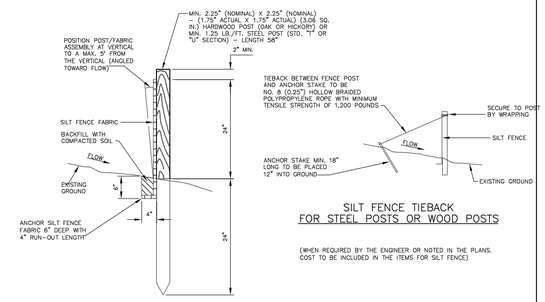
SECTION B–B

13 CONSTRUCTION ENTRANCE/EXIT

N.T.S



ELEVATION VIEW



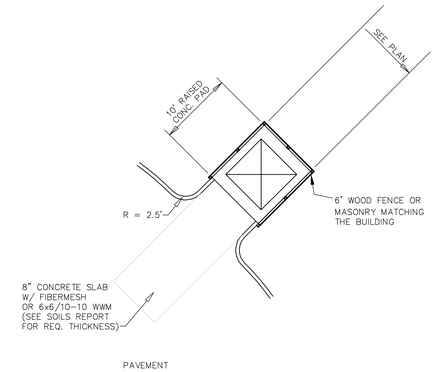
SECTIONAL VIEW

SILT FENCE TIEBACK FOR STEEL POSTS OR WOOD POSTS

(WHEN REQUIRED BY THE ENGINEER OR NOTED IN THE PLANS. COST TO BE INCLUDED IN THE ITEMS FOR SILT FENCE)

14 SILT FENCE DETAIL

N.T.S

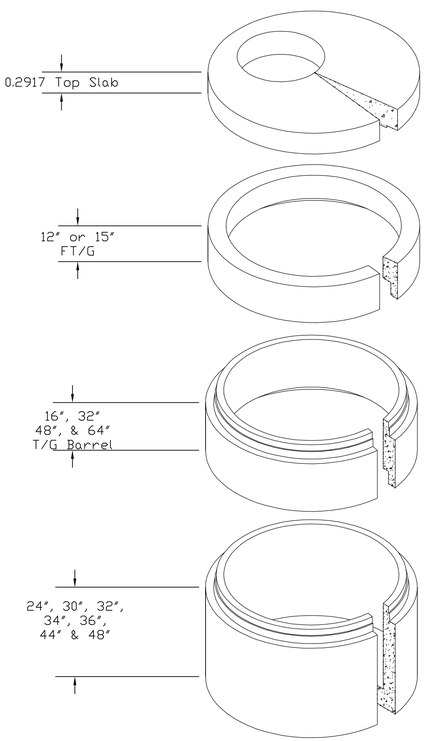


SEE SITE PLAN FOR SPECIFIC LAYOUT

LAYOUT MAY BE REVERSED. SEE STAKING PLAN FOR EXACT LAYOUT.

15 SCREENED DUMPSTER PAD DETAIL

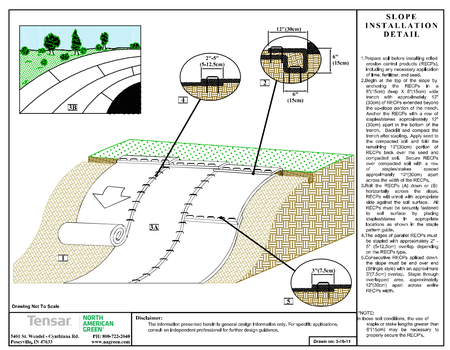
NO SCALE



*Casting to be JBS 1150 or equivalent

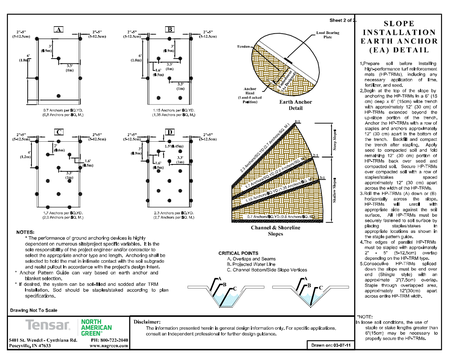
16 STORM MANHOLE

N.T.S.



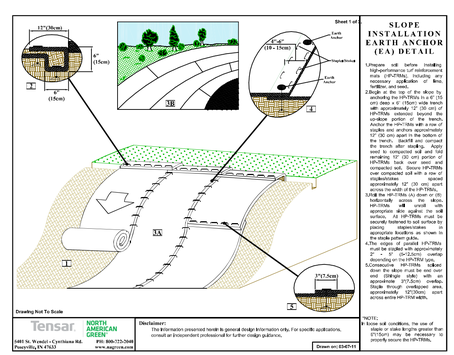
17 SLOPE INSTALLATION DETAIL

N.T.S.



17 EARTH ANCHOR INSTALLATION DETAIL

N.T.S.

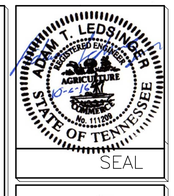


17 EARTH ANCHOR INSTALLATION DETAIL

N.T.S.

DETAILS

NO SCALE



SEAL

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PROJECT

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HWY 51 NORTH-HARWELL PROPERTY

Millington, TN

REVISION DATES	OCT. 13, 2016
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JOB No.	