

# EASTSIDE VETERINARY HOSPITAL CIVIL ENGINEERING PLANS

## PROJECT TEAM

### OWNER/DEVELOPER

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### SURVEYOR

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### CIVIL ENGINEER

GERMANA ENGINEERING AND ASSOCIATES, LLC.  
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### ARCHITECT

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## UTILITY CONTACT LIST

### ELECTRIC

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### NATURAL GAS

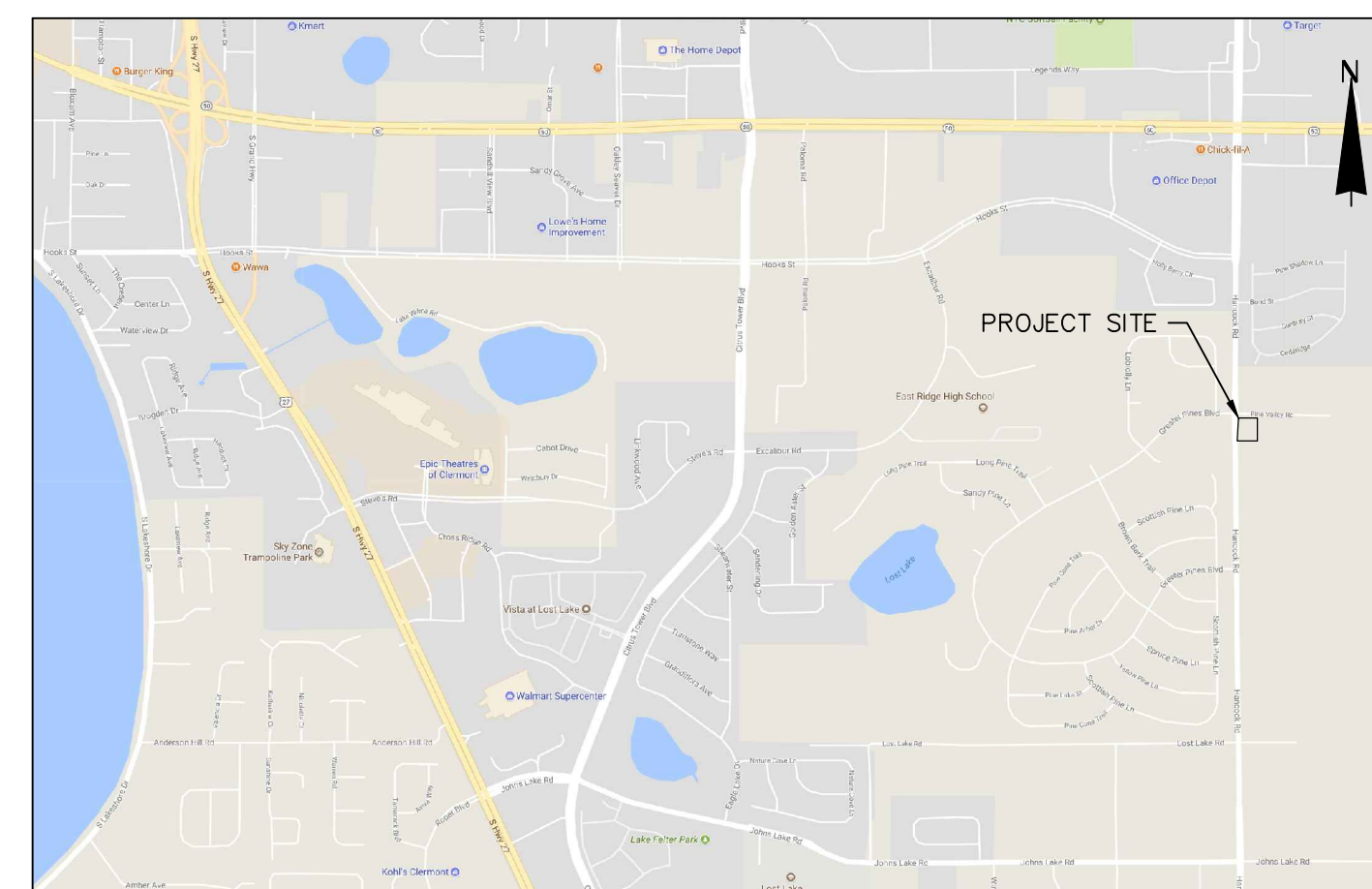
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### TELEPHONE

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CLERMONT, FLORIDA 34711  
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VICINITY MAP

SCALE: NTS  
SOURCE: GOOGLE MAPS

15016 PINE VALLEY BLVD  
CLERMONT, FLORIDA 34711  
SECTION 27, TOWNSHIP 22 SOUTH, RANGE 26 EAST

## SHEET # DESCRIPTION

SHEET #	DESCRIPTION
C1	COVER SHEET
C2	GENERAL NOTES – CITY OF CLERMONT
C3	GENERAL NOTES – CITY OF CLERMONT
C4	SITE PLAN
C5	GRADING PLAN
<del>C6</del>	<del>UTILITY PLAN</del>
C7	EROSION CONTROL PLAN
C8	CONSTRUCTION DETAILS
C9	CONSTRUCTION DETAILS
<del>C10</del>	<del>CONSTRUCTION DETAILS – CITY OF CLERMONT</del>

## SITE NOTES

### LEGAL DESCRIPTION:

LOTS 8 AND 9, PINE VALLEY INDUSTRIAL PARK, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 29, PAGE 70, PUBLIC RECORDS OF LAKE COUNTY, FLORIDA.

### DATUM NOTE:

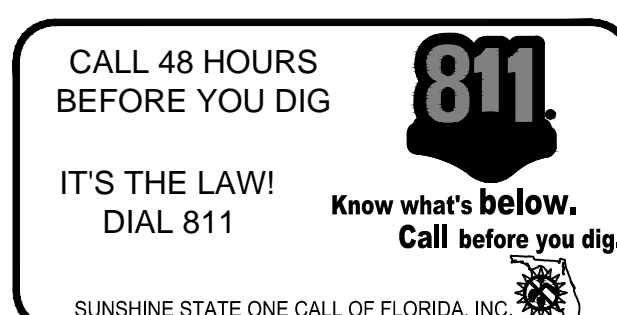
ELEVATIONS ARE BASED ON 1988 DATUM

### BENCHMARKS: (BY RHODEN LAND SURVEYING, INC.)

BENCHMARK #1 – 1/2" IRON ROD & CAP MARKED "PSM 5322" ELEVATION 135.40 (NAVD 88)  
BENCHMARK #2 – 1/2" IRON ROD & CAP MARKED "LB 220" ELEVATION 135.00 (NAVD 88)

### NOTES:

- THE PLANS WERE PREPARED ACCORDING TO AVAILABLE INFORMATION BASED ON THE CONDITIONS AS THEY EXISTED AT THE TIME OF PLAN PREPARATION. THE CONDITIONS OF THE PROPERTY MAY HAVE CHANGED SINCE PROJECT DESIGN. THE CONTRACTOR SHALL VERIFY AND CONFIRM ALL EXISTING CONDITIONS AND SHALL CONTACT THE PROJECT ENGINEER IMMEDIATELY IF CONDITIONS HAVE CHANGED FROM WHEN THE PLANS WERE PREPARED.
- THE SITE SHALL COMPLY WITH THE FLORIDA BUILDING CODE (FBC) 2014 ACCESSIBILITY CODE.
- SEPARATE PERMITS ARE REQUIRED FOR THE FOLLOWING, IF APPLICABLE:
  - DUMPSTER ENCLOSURE
  - LIFT STATIONS
  - SWIMMING POOLS
  - PLAYGROUND EQUIPMENT
  - SIGNS
  - RETAINING WALLS
  - ENTRY
  - WALL FEATURES
  - SITE LIGHTING
  - GENERATORS
  - FENCE
  - UNDERGROUND FIRE MAINS
  - PRIVATE FIRE HYDRANTS
  - STRUCTURES ERECTED AT THIS SITE



CERTIFICATE OF AUTHORIZATION NUMBER. 29279  
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Christopher M. Germana, State of Florida, Professional Engineer, License No. 61682.  
This item has been electronically signed and sealed by Christopher M. Germana on 12-11-2017 using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

**GENERAL PROJECT DATA**

FOR IDENTIFICATION OF CONTRACTUAL AGREEMENTS, THIS SET OF DRAWINGS IS DATED X X X. ANY REVISIONS THEREAFTER WILL BE NOTED AND DATED ON THE AFFECTED DRAWING(S).

PRIOR TO THE COMMENCEMENT OF ANY WORK, A PRECONSTRUCTION MEETING WITH THE CITY OF CLERMONT IS REQUIRED. THE CITY OF CLERMONT SHALL BE NOTIFIED PRIOR TO COMMENCEMENT OF MAJOR PHASES OF CONSTRUCTION.

THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE VARIOUS UTILITIES AND TO MAKE THE NECESSARY ARRANGEMENTS FOR ANY RELOCATIONS TO THESE UTILITIES WITH THE OWNER OF THE UTILITY. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN CROSSING AN UNDERGROUND UTILITY, WHETHER SHOWN ON THE PLAN OR LOCATED BY THE UTILITY COMPANY. ALL UTILITIES THAT INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE RELOCATED BY THE RESPECTIVE UTILITY COMPANY AND THE CONTRACTOR SHALL COOPERATE WITH THEM DURING RELOCATION OPERATIONS. ANY DELAY OR INCONVENIENCE CAUSED TO THE CONTRACTOR BY THE RELOCATION OF VARIOUS UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT AND NO EXTRA COMPENSATION WILL BE ALLOWED.

**DRAINAGE SYSTEMS**

THE CONTRACTOR SHALL PERFORM ALL WORK PERTAINING TO DRAINAGE INCLUDING EXCAVATION OF W.R.A. PRIOR TO THE COMMENCEMENT OF OTHER WORK INCLUDED IN THESE PLANS. THE DRAINAGE FACILITIES SHALL BE MAINTAINED BY THE CONTRACTOR DURING THE COURSE OF THIS CONTRACT. THE CONTRACTOR SHALL INCLUDE FUNDS IN THE DRAINAGE COSTS OF THE CONTRACT TO OPERATE AND MAINTAIN THE DRAINAGE SYSTEMS DURING THE WORK PROCESS.

THE UTILITIES ARE THE PROPERTY OF THE FOLLOWING:

Table with utility providers: WATER (CITY OF CLERMONT UTILITIES DEPARTMENT), POWER (PROGRESS ENERGY), POWER ELECTRIC (SUMTER ELECTRIC), SEWER (CITY OF CLERMONT UTILITIES DEPARTMENT), CABLE (BRIGHT HOUSE NETWORKS), GAS (LAKE APOPKA NATURAL GAS DISTRICT), TELEPHONE (EMBARQ).

**ASBUILTS**

THE ENGINEER SHALL DELIVER ASBUILT DRAWING PLANS IN DWG FORMAT IN AUTOCAD FILES VERSION 2000 TO 2010. STANDARD TRANSFER MEDIA WILL BE ACCEPTED. THIS MEDIA INCLUDES CD OR DVD. ALL ASBUILT DATA SHALL BE PROVIDED BY A FLORIDA LICENSED SURVEYOR, SIGNED, SEALED AND DATED BY THE RESPONSIBLE PARTY. SEE INDIVIDUAL SECTIONS (STORM, WATER SYSTEM, ETC.) FOR ADDITIONAL ASBUILT REQUIREMENTS.

THE ENGINEER SHALL DELIVER ONE SCANNED SET OF APPROVED ASBUILT DRAWING PLANS. THE SCANNED SETS SHALL BE COMPLETE AND INCLUDE THE TITLE SHEET, PLAN/PROFILE SHEETS, CROSS-SECTIONS AND DETAILS. EACH INDIVIDUAL SHEET CONTAINED IN THE PRINTED SET OF THE DRAWINGS SHALL BE INCLUDED IN THE ELECTRONIC SUBMITTAL, WITH EACH SHEET BEING CONVERTED INTO AN INDIVIDUAL TIFF FORMAT. THE PLAN SHEETS SHALL BE SCANNED IN TIFF FORMAT AT 400 DPI RESOLUTION TO MAINTAIN LEGIBILITY OF EACH DRAWING. THEN, THE TIFF IMAGES SHALL BE EMBEDDED INTO A SINGLE PDF (ADOBE ACROBAT) FILE REPRESENTING THE COMPLETE PLAN SET. THESE DRAWINGS WILL ASSIST IN THE PROCESS OF PERFORMING QUALITY CONTROL AND QUALITY ASSURANCE ON THE ELECTRONIC SUBMITTAL SPECIFIED IN THIS DOCUMENT. THE DRAWINGS WILL BE REVIEWED FOR FORMAT AND COMPLETENESS. SPECIFICALLY, THE FOLLOWING REQUIREMENTS SHALL BE MET.

- 1. INCLUDE A LABEL ON THE MEDIA INDICATING PROJECT NAME AND NUMBER, CONSULTANT NAME, PROJECT MANAGER AND TELEPHONE NUMBER, TYPE OF SUBMITTAL (APPROVED CONSTRUCTION PLANS OR ASBUILT DRAWINGS), ONLY DRAWINGS RELEVANT TO THE PROJECT'S PHASE OF SUBMITTAL SHALL BE INCLUDED. FOR EXAMPLE, DO NOT INCLUDE "BID SET" DRAWINGS IN A "ASBUILT DRAWING" SUBMITTAL. ALSO, DO NOT INCLUDE DRAWINGS OR DOCUMENTS THAT WOULD NOT NORMALLY BE INCLUDED IN THE SET OF PRINTED DRAWINGS, EXCEPT FOR BASE DRAWINGS OR DRAWINGS TO BE EXTERNALLY REFERENCED.
2. RECORD DRAWING DATA TO BE UPLOADED WILL INCLUDE ONLY NEW CONSTRUCTION AND CARE WILL BE TAKEN TO EXCLUDE ANY "EXISTING" FACILITIES FROM THIS DATASET SO AS TO NOT DUPLICATE INFORMATION IN THE GIS SYSTEM. EXISTING DATA CAN BE INCLUDED IN THE DRAWING BUT SHOULD RESIDE ON SEPARATE LAYERS. IT IS RECOMMENDED THAT THE PREFIX "EX-" BE ADDED TO THE LAYERS OF ALL EXISTING DATA
3. THE FOLLOWING ARE FILE FORMAT AND LAYER NAME STANDARDS:

- a) A FOLDER SHALL BE CREATED WITH THE NAMED PROJECT AND PHASE NUMBER
b) A FILE NAMED COVERSHEET.DWG
c) FILE NAMED SITE\_PLAN.DWG SHOWING ONLY THE FOLLOWING 5 LAYERS VISIBLE:
-LAYER NAMED LOTS
-LAYER NAMED LOT NUMBERS
-LAYER NAMED ADDRESSES
-LAYER NAMED ROW SHOWING ALL RIGHTS-OF-WAYS
-LAYER NAMED EOP SHOWING ALL EDGE OF PAVEMENTS
d) A FILE NAMED MASTERUTILITYPLAN.DWG WITH SITE\_PLAN.DWG X-REF AND ONLY THE FOLLOWING 3 LAYERS VISIBLE:
-LAYER NAMED WATERLINE SHOWING DIFFERENT PIPE SIZES, WATER METERS, AND HYDRANTS
-LAYER NAMED REUSEWATER AND ALL APPROPRIATE FEATURES
-LAYER NAMED SEWER AND ALL APPROPRIATE FEATURES
e) FILE NAMED GRADING\_DRAINAGE.DWG WITH SITE\_PLAN.DWG X-REF AND ONLY THE FOLLOWING 2 LAYERS VISIBLE:
-LAYER NAMED STORMWATER AND ALL APPROPRIATE FEATURES
-LAYER NAMED SPOTELEV SHOWING ALL SPOT ELEVATIONS
-ANY OTHER LAYERS PERTINENT TO THE GRADING AND DRAINAGE OF THE SITE
f) IF APPLICABLE, A FILE NAMED OFF\_SITE\_UTILITIES.DWG INCLUDE ANY OTHER FILES PERTINENT TO THE PROJECT (SURVEY, DETAILS, X-REFS ETC.)

**PERMITS AND PERMIT REQUIREMENTS**

THE CONTRACTOR SHALL OBTAIN FROM THE OWNER COPIES OF ALL REGULATORY AND LOCAL AGENCY PERMITS. THE CONTRACTOR SHALL BE EXPECTED TO REVIEW AND ABIDE BY ALL THE REQUIREMENTS AND LIMITATIONS SET FORTH IN THE PERMITS. A COPY OF THE PERMIT SHALL BE KEPT ON THE JOB AT ALL TIMES.

**LAYOUT AND CONTROL**

UNLESS OTHERWISE NOTED ON THE PLANS, THE CONTRACTOR SHALL PROVIDE FOR THE LAYOUT OF ALL THE WORK TO BE CONSTRUCTED. BENCHMARK INFORMATION SHALL BE PROVIDED TO THE CONTRACTOR BY THE OWNER OR OWNER'S SURVEYOR. ANY DISCREPANCIES BETWEEN FIELD MEASUREMENTS AND CONSTRUCTION PLAN INFORMATION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.

**QUALITY CONTROL TESTING REQUIREMENTS**

ALLTESTING RESULTS SHALL BE PROVIDED TO THE OWNER/OPERATOR, CITY OF CLERMONT, AND THE ENGINEER. TESTING REQUIREMENTS ARE TO BE IN ACCORDANCE WITH THE OWNER/OPERATOR'S SPECIFICATIONS AND REQUIREMENTS. ALL TEST RESULTS SHALL BE PROVIDED (PASSING AND FAILING) ON A REGULAR AND IMMEDIATE BASIS. CONTRACTOR SHALL PROVIDE TESTING SERVICES THROUGH A FLORIDA LICENSED GEOTECHNICAL ENGINEERING FIRM ACCEPTABLE TO THE OWNER AND THE ENGINEER. CONTRACTOR TO SUBMIT TESTING FIRM TO OWNER FOR APPROVAL PRIOR TO COMMENCING TESTING.

**SHOP DRAWINGS**

SHOP DRAWINGS AND CERTIFICATIONS FOR ALL STORM DRAINAGE, WATER SYSTEM, SEWER SYSTEM, AND PAVING SYSTEM MATERIALS AND STRUCTURES ARE REQUIRED. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO ORDERING THE MATERIALS REQUIRED FOR CONSTRUCTION.

**EARTHWORK**

**EARTHWORK QUANTITIES**

THE CONTRACTOR SHALL PERFORM HIS OWN INVESTIGATIONS AND CALCULATIONS AS NECESSARY TO ASSURE HIMSELF OF EARTHWORK QUANTITIES. THERE IS NO IMPLICATION THAT EARTHWORK BALANCES, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY IMPORT FILL NEEDED, OR FOR REMOVAL AND DISPOSAL OF EXCESS MATERIALS.

**EROSION CONTROL**

EROSION AND SILTRATION CONTROL MEASURES ARE TO BE PROVIDED AND INSTALLED PRIOR TO COMMENCEMENT OF CONSTRUCTION. THESE MEASURES ARE TO BE INSPECTED BY THE CONTRACTOR ON A REGULAR BASIS AND ARE TO BE MAINTAINED OR REPAIRED ON AN IMMEDIATE BASIS AS REQUIRED. REFER TO WATER MANAGEMENT DISTRICT PERMIT FOR ADDITIONAL REQUIREMENTS FOR EROSION CONTROL AND SURFACE DRAINAGE. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE STABILIZED WITH SOD WITHIN 30 DAYS OF COMPLETION OF CONSTRUCTION. OTHER MATERIALS SHALL BE REVIEW AND APPROVED BY CITY.

**WETLAND PROTECTION**

THE LIMITS OF THE ON-SITE WETLANDS HAVE BEEN PROVIDED TO THE CONTRACTOR ON THE CONSTRUCTION PLANS OR ON PERMIT MATERIALS. THE WETLANDS ARE TO BE PROTECTED FROM DISTURBANCE AT ALL TIMES. CONTRACTOR SHALL PROVIDE EROSION, SILTATION, AND DIVERSION MEASURES PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN A COPY OF EACH PERMIT RELATING TO WETLANDS AND WATER MANAGEMENT AND ADHERE TO ALL PROVISIONS AND CONDITIONS THERETO.

**LIMITS OF DISTURBANCE**

AT NO TIME SHALL THE CONTRACTOR DISTURB SURROUNDING PROPERTIES OR TRAVEL ON SURROUNDING PROPERTIES WITHOUT WRITTEN CONSENT FROM THE PROPERTY OWNER. REPAIR OR RECONSTRUCTION OF DAMAGED AREAS ON SURROUNDING PROPERTIES SHALL BE PERFORMED BY THE CONTRACTOR ON AN IMMEDIATE BASIS. ALL COSTS FOR REPAIRS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND NO EXTRA COMPENSATION SHALL BE PROVIDED. GRADING AND/OR CLEARING ON PROPERTIES OTHER THAN SHOWN ON THE APPROVED PLANS IS PROHIBITED.

**TREE REMOVAL**

THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE ENGINEER WHEN ALL WORK IS LAID OUT (SURVEY STAKED), SO THAT A DETERMINATION MAY BE MADE OF SPECIFIC TREES TO BE REMOVED. NO TREES ON THE CONSTRUCTION PLANS AS BEING SAVED SHALL BE REMOVED WITHOUT PERMISSION FROM THE OWNER, ENGINEER AND THE CITY OF CLERMONT.

**CLEARING AND GRUBBING**

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEARING AND GRUBBING FOR SITE CONSTRUCTION INCLUDING CLEARING FOR PAVING, UTILITIES, DRAINAGE FACILITIES AND BUILDING CONSTRUCTION. ALL AREAS TO BE CLEARED SHALL BE FIELD STAKED AND REVIEWED BY THE OWNER AND ENGINEER PRIOR TO ANY CONSTRUCTION.

NO BURN PERMITS (INCLUDING THOSE FOR LAND CLEARING) WILL BE ISSUED IN THE CITY OF CLERMONT WITHOUT PRIOR AUTHORIZATION FROM THE CITY MANAGER.

**MATERIAL STORAGE/DEBRIS REMOVAL**

1) NO COMBUSTIBLE BUILDING MATERIALS MAY BE ACCUMULATED ON THE SITE AND NO CONSTRUCTION WORK INVOLVING COMBUSTIBLE MATERIALS MAY BEGIN UNTIL INSTALLATION OF ALL REQUIRED WATER MAINS AND FIRE HYDRANTS HAVE BEEN COMPLETED, DEP APPROVAL RECEIVED FOR THE WATER MAINS, AND THE HYDRANTS ARE IN OPERATION. CONSTRUCTION WORK INVOLVING NON-COMBUSTIBLE MATERIALS, SUCH AS CONCRETE, MASONARY AND STEEL MAY BEGIN PRIOR TO THE FIRE HYDRANTS BEING OPERATIONAL.

2) ALL MATERIALS EXCAVATED SHALL REMAIN THE PROPERTY OF THE OWNER AND SHALL BE STOCKPILED AT ON-SITE LOCATIONS AS SPECIFIED BY THE OWNER. MATERIALS SHALL BE STOCKPILED SEPARATELY AS TO USABLE (NONORGANIC) FILL, STOCKPILES AND ORGANIC (MUCK) STOCKPILES IF MUCK IS ENCOUNTERED. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL UNSUITABLE FILL MATERIALS FROM THE SITE. ALL CLAY ENCOUNTERED SHALL BE EXCAVATED OUT AND REPLACED WITH CLEAN GRANULAR FILL MATERIALS.

**FILL MATERIAL**

ALL MATERIALS SHALL CONTAIN NO MUCK, STUMPS, ROOTS, BRUSH, VEGETATIVE MATTER, RUBBISH OR OTHER MATERIAL THAT WILL NOT COMPACT INTO A SUITABLE AND ENDURING BACKFILL. FILL SHALL BE CLEAN, NON-ORGANIC, GRANULAR MATERIAL WITH NOT MORE THAN 10% PASSING THE NO. 200 SIEVE.

**COMPACTION**

FILL MATERIALS PLACED UNDER ROADWAYS SHALL BE COMPACTED TO AT LEAST 98% OF THE MAXIMUM DENSITY AS SPECIFIED IN AASHTO T-180. ALL OTHER FILL AREAS ARE TO BE COMPACTED TO AT LEAST 95% MAXIMUM DENSITY AS SPECIFIED IN AASHTO T-180. FILL MATERIALS SHALL BE PLACED AND COMPACTED IN A MAXIMUM OF 12" LIFTS. THE CONTRACTOR SHALL PROVIDE THE ENGINEER AND OWNER WITH ALL (PASSING AND FAILING) TESTING RESULTS. RESULTS SHALL BE PROVIDED ON A TIMELY AND REGULAR BASIS PRIOR TO CONTRACTOR'S PAY REQUEST SUBMITTAL FOR THE AFFECTED WORK.

**PAVEMENT AND/OR ROAD AND RIGHT-OF-WAY WORK**

ALL PRESSURE PIPE UNDER ROADWAY SHALL BE DIP EXTENDING 5' FROM EDGE OF PAVEMENT.

**OWNER/OPERATOR**

THE ENTITY THAT WILL OWN, OPERATE AND MAINTAIN THE ROADWAYS SHOWN ON THESE PLANS IS FDOT, LAKE COUNTY OR THE CITY OF CLERMONT. THE CONTRACTOR SHALL BE EXPECTED TO MEET ALL THE REQUIREMENTS OF THAT ENTITY.

**GENERAL DESIGN INTENT**

ALL PAVING SURFACES IN INTERSECTIONS AND ADJACENT SECTIONS SHALL BE GRADED TO DRAIN POSITIVELY IN THE DIRECTION SHOWN BY THE FLOW ARROWS ON THE PLANS AND TO PROVIDE A SMOOTHLY TRANSITIONED DRIVING SURFACE FOR VEHICLES WITH NO SHARP BREAKS IN GRADE, AND NO UNUSUALLY STEEP OR REVERSE CROSS SLOPES. APPROACHES TO INTERSECTIONS AND ENTRANCE AND EXIT GRADES TO INTERSECTIONS WILL HAVE TO BE STAKED IN THE FIELD AT DIFFERENT GRADES THAN THE CENTERLINE GRADES TO ACCOMPLISH THE PURPOSES OUTLINED. IN ADDITION, THE STANDARD CROWN WILL HAVE TO BE CHANGED IN ORDER TO DRAIN POSITIVELY IN THE AREA OF INTERSECTIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH THE ABOVE AND THE ENGINEER SHALL BE CONSULTED SO THAT HE MAY MAKE ANY AND ALL REQUIRED INTERPRETATIONS OF THE PLANS OR GIVE SUPPLEMENTARY INSTRUCTION TO ACCOMPLISH THE INTENT OF THE PLANS.

**MATERIALS/CONSTRUCTION SPECIFICATIONS**

MATERIALS AND CONSTRUCTION METHODS FOR THE ROADWAY CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION 1991, OR LATEST EDITION.

**PAVEMENT SECTION REQUIREMENTS**

CONSTRUCTION OF ROADWAYS SHALL BE 12" OF STABILIZED SUBBASE WITH A LIMEROCK BEARING PATIO OF (LBR) 40 COMPACTED TO THE MODIFIED PROCTOR MAXIMUM DRY DENSITY OF 98% PER AASHTO T-180, 6" OF LIMEROCK BASE COURSE, (LBR) 100, COMPACTED TO THE MODIFIED PROCTOR MAXIMUM DRY DENSITY OF 98% PER AASHTO T-180 AND 2" TYPE S-111 OF RECYCLED ASPHALTIC CONCRETE SURFACE COURSE WITH A MINIMUM STABILITY OF 1500 LBS. SUBGRADE PREPARATION AND PAVEMENT INSTALLATION SHALL CONFORM TO FDOT STANDARDS AND SOILS REPORT RECOMMENDATIONS.

**SIDEWALKS**

SIDEWALKS ARE TO BE CONSTRUCTED IN THE AREA AS SHOWN ON THE CONSTRUCTION PLANS. THE 5' SIDEWALK SHALL BE CONSTRUCTED OF 4 INCHES OF CONCRETE WITH A 28 DAY COMPRESSION STRENGTH OF 2500 PSI. JOINTS SHALL BE EITHER TOOLED OR SAWCUT AT A DISTANCE OF 5' LENGTHS. HANDICAPPED RAMPS SHALL BE PROVIDED AT ALL INTERSECTIONS AND BE IN ACCORDANCE WITH STATE REGULATIONS FOR HANDICAP ACCESSIBILITY.

**PAVEMENT MARKINGS/SIGNAGE**

PAVEMENT MARKINGS AND SIGNAGE SHALL BE PROVIDED AS SHOWN ON THE CONSTRUCTION PLANS AND SHALL MEET THE REQUIREMENTS OF THE OWNER/OPERATOR. SIGNAGE SHALL BE IN CONFORMANCE WITH MUTCD (LATEST EDITION). A 48-HOUR PAVEMENT CURING TIME WILL BE PROVIDED PRIOR TO APPLICATION OF THE PAVEMENT MARKINGS. REFLECTIVE PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH FDOT INDEX NO. 17352.

**TRAFFIC CONTROL**

AN MOT PLAN SHALL BE SUBMITTED TO THE INSPECTOR PRIOR TO COMMENCEMENT OF WORK. A MINIMUM OF 2-WAY, ONE LANE TRAFFIC SHALL BE MAINTAINED IN THE WORK SITE AREA. ALL CONSTRUCTION WARNING SIGNAGE SHALL BE IN PLACE PRIOR TO COMMENCEMENT OF CONSTRUCTION AND BE MAINTAINED THROUGHOUT CONSTRUCTION. ACCESS SHALL BE CONTINUOUSLY MAINTAINED FOR ALL PROPERTY OWNERS SURROUNDING THE WORK SITE AREA. LIGHTED WARNING DEVICES ARE TO BE OPERATIONAL PRIOR TO DUSK EACH NIGHT DURING CONSTRUCTION.

**CURBING**

CURBING SHALL BE CONSTRUCTED WHERE NOTED ON THE CONSTRUCTION PLANS. CONCRETE FOR CURBS SHALL BE DEPARTMENT OF TRANSPORTATION CLASS "1" CONCRETE WITH A 28 DAY COMPRESSION STRENGTH OF 2500 PSI. ALL CURBS SHALL HAVE SAW CUT CONTRACTION JOINTS AND SHALL BE CONSTRUCTED AT INTERVALS NOT TO EXCEED 10'-0" ON CENTER. CONSTRUCTION OF CURBS SHALL BE IN CONFORMANCE WITH FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (1991) SECTION 520 AND DETAILS PROVIDED ON THE CONSTRUCTION PLANS.

**R/W RESTORATION**

ALL AREAS WITHIN THE RIGHT-OF-WAYS SHALL BE FINISH GRADED WITH A SMOOTH TRANSITION INTO EXISTING GROUND. ALL SWALES SHALL BE STABILIZED IMMEDIATELY AFTER FINAL GRADING. ALL DISTURBED AREAS SHALL BE RAKED CLEAN OF ALL LIMEROCK AND ROCKS AND SODDED AFTER FINAL GRADING IN ACCORDANCE WITH THE CONSTRUCTION PLANS PRIOR TO FINAL INSPECTION. ALL GRASSING (SEED OR SOD) SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL FINAL ACCEPTANCE BY THE OWNER/OPERATOR.

**SITE ACCESS**

ALL ACCESS TO THE JOB SITE FOR CONSTRUCTION AND RELATED ACTIVITIES SHALL BE BY EXISTING STREETS AND ROADS, OR BY THE CONSTRUCTION EASEMENT AS APPROVED BY THE CITY OF CLERMONT.

**POTABLE WATER/FIRE SYSTEMS**

**OWNER/OPERATOR**

THE ENTITY THAT WILL OWN, OPERATE AND MAINTAIN THE WATER SYSTEM SHOWN ON THESE PLANS IS CITY OF CLERMONT. THE CONTRACTOR SHALL BE EXPECTED TO MEET ALL THE REQUIREMENTS OF THAT ENTITY, UNLESS OTHERWISE INDICATED ON PLANS.

**LANDSCAPING**

PROVIDE MINIMUM 5' SEPARATION FROM UTILITIES AND TREES WITH INVASIVE ROOT SYSTEMS.

**PIPE MATERIALS**

SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL CITY INFRASTRUCTURE TO BE CONSTRUCTED. WATER SYSTEM SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER AND SHALL MEET CITY SPECIFICATIONS.

POLYVINYL CHLORIDE PLASTIC PIPE (PVC) 4" THROUGH 12" SHALL BE MANUFACTURED IN ACCORDANCE WITH ANSI/AWWA C900 (LATEST EDITION) AND SHALL HAVE A MINIMUM WORKING PRESSURE OF 150 PSI AND A DR (DIMENSION RATIO) OF 18. ALL PVC PIPE SHALL BEAR THE NSF LOGO FOR POTABLE WATER. JOINTS SHALL BE OF THE PUSH-ON TYPE AND COUPLINGS CONFORMING TO ASTM D3139, DR18 PIPE.

DUCTILE IRON PIPE (DIP) SHALL BE STANDARD PRESSURE CLASS 350 IN SIZES 4" THROUGH 12" AND CONFORM TO ANSI/AWWA C150/A21.50 (LATEST EDITION). ALL DUCTILE IRON PIPE SHALL HAVE A STANDARD THICKNESS OF CEMENT MORTAR LINING AS SPECIFIED IN ANSI/AWWA C104/A21.4 (LATEST EDITION). PIPE JOINTS SHALL BE OF THE PUSH-ON RUBBER GASKET TYPE CONFORMING TO ANSI/AWWA C111/A21.11 (LATEST EDITION).

ALL PRESSURE PIPE UNDER ROADWAY SHALL BE DIP EXTENDING 5' FROM EDGE OF PAVEMENT.

3" METALLIC LOCATOR TAPE WITH LOCATOR WIRE SHALL BE INSTALLED ON ALL WATER MAINS PER DETAIL.

**PIPE MATERIALS CONT.**

PIPE SIZES GREATER THAN 12" BE SEPARATELY SPECIFIED ON THE PLANS; WITH THICKNESS CLASSES TO BE SHOWN BASED ON WORKING PRESSURES, PIPE DEPTH AND TRENCH CONDITIONS. FITTINGS FOR DUCTILE IRON PIPE AND PVC C-900 PIPE SHALL BE DUCTILE IRON AND SHALL CONFORM TO ANSI/AWWA C153/A21.10 (LATEST EDITION) AND SHALL BE CEMENT LINED IN CONFORMANCE WITH ANSI/AWWA C104/A21.4 (LATEST EDITION).

POLYETHYLENE WRAP USED FOR CORROSION PREVENTION ON DUCTILE IRON PIPE SHALL CONFORM TO THE REQUIREMENTS OF ANSI/ASTM D1248. THE MINIMUM NOMINAL THICKNESS SHALL BE 0.008 IN. (8 MILS). INSTALLATION OF POLY WRAP SHALL BE IN ACCORDANCE WITH AWWA C105. TRANSMISSION MAIN SHALL BE DIP RATED FOR 250 PSI.

**VALVES**

GATE VALVES SHALL BE RESILIENT SEAT AND SHALL CONFORM TO ANSI/AWWA C509.87 WITH HANDWHEEL OR WRENCH NUT, EXTENSION STEMS AND OTHER APPURTENANCES AS REQUIRED (OPERATION NUT TO BE WITHIN 3 FEET OF FINISH GRADE). MANUFACTURER'S CERTIFICATION OF THE VALVES COMPLIANCE WITH AWWA SPECIFICATION C509 AND TESTS LISTED THEREIN WILL BE REQUIRED. SEE CITY OF CLERMONT APPROVED PRODUCT LIST.

**POTABLE WATER AND REUSE VALVES**

ANY VALVE USED IN A POTABLE WATER OR REUSE WATER APPLICATION THAT IS 4" OR LARGER MUST BE A RESILIENT SEAT AND CONFORM TO ALL AWWA SPECIFICATIONS.

**AIR RELEASE VALVES**

AIR RELEASE VALVES SHALL BE PLACED AT HIGH POINTS OF THE TRANSMISSION MAIN TO PERMIT ESCAPE OF TRAPPED AIR. THE VALVE SIZE, LOCATION AND METHOD OF INSTALLATION SHALL BE INDICATED ON THE DRAWINGS OR AS DIRECTED BY THE ENGINEER. SEE CITY OF CLERMONT APPROVED PRODUCTS LIST.

**VALVE BOXES**

VALVE BOXES ON BURIED POTABLE WATER MAINS SHALL BE ADJUSTABLE. CAST IRON CONSTRUCTION, WITH MINIMUM INTERIOR DIAMETER OF 5" WITH COVERS CAST WITH THE INSCRIPTION IN LEGIBLE LETTERING ON TOP. WATER BOXES SHALL BE SUITABLE FOR THE APPLICABLE SURFACE LOADING AND VALVE SIZE, AND SHALL BE MANUFACTURED BY MUELLER COMPANY, MODEL 10364, OR APPROVED EQUAL. VALVE BOX PADS SHALL BE 24"x24"x4" THICK CONCRETE WITH #4 REINFORCING BARS. PAD TO BE SET AT FINISHED GRADE WITH RECESSED DETECTOR WIRE CONDUIT PORT PER DETAIL. REUSE MAINS TO HAVE SQUARE TOP VALVE BOXES.

**WATER SERVICES**

UNLESS OTHERWISE NOTED IN THE PLANS, THE UTILITY COMPANY SHALL PROVIDE AND INSTALL WATER METERS. CONTRACTOR SHALL CONSTRUCT WATER SERVICE THROUGH THE CURB STOP AND SET METER BOXES TO FINISHED GRADE AS SHOWN ON THE WATER SYSTEM DETAIL SHEET. POLYETHYLENE (PE) PRESSURE PIPE FOR WATER SERVICES 1/2" THROUGH 3" SHALL CONFORM TO AWWA C901.88, MIN. 200 PSI, CTS 5100 (DR-9) ASTM D-2737, 200 PSI. THE SERVICE SHALL BE COMPLETE THROUGH THE CURB STOP AS SHOWN ON THE DETAIL SHEET AND SHALL BE OF THE TYPE REQUIRED FOR COMPATIBILITY WITH THE SERVICE LINES SPECIFIED. UTILITY COMPANY SHALL PROVIDE AND INSTALL IRRIGATION METERS. WHERE RECLAIM SERVICE IS NOT PROVIDED, CONTRACTOR SHALL CONSTRUCT IRRIGATION SERVICE THROUGH THE CURB STOP AND SET NEW BOXES TO FINISHED GRADE AS SHOWN ON THE WATER SYSTEM DETAIL SHEET. SEE CITY OF CLERMONT APPROVED PRODUCT LIST.

**WATER SERVICES 2.5" AND LARGER**

THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING A NEPTUNE R450 METER WITH E-CODER REGISTER, 12795-22051227 NEPTUNE R450 WALL MIU (CLERMONT SPECIAL) AND 12596-002 NEPTUNE WALL MIU ADAPTOR F/PIT STYLE REGISTER. THE ASSEMBLY SHALL BE ABOVE GROUND STYLE WITH BYPASS SET UP FOR METER TESTING. A STRAINER SHALL BE INSTALLED PRIOR TO THE METER AND AND SHALL BE FROM THE SAME MANUFACTURER AS THE WATER METER. INCLUDE SPOOL PIECES 5X THE DIAMETER UPSTREAM AND 10X THE DIAMETER DOWNSTREAM MINIMUM LENGTH. ISOLATION VALVES SHALL BE INSTALLED PRIOR TO THE METER AND ANOTHER ONE PAST THE METER TEST PORT AND BEFORE THE THE DOWNSTREAM BYPASS CONNECTION. BYPASS PIPING SHALL HAVE A LOCKABLE ISOLATION VALVE UNLESS IT IS UNDERGROUND.

**MATERIALS AS REQUIRED BY THE CITY OF CLERMONT**

THE CONTRACTOR SHALL CUT A "W" IN THE CURB TOP AT EACH WATER SERVICE AND A "V" AT ALL VALVE LOCATIONS. CUT W'S AND V'S SHALL BE HIGHLIGHTED WITH BLUE PAINT. SEE WATER SYSTEM DETAILS FOR OTHER SERVICE LOCATION AND MARKING REQUIREMENTS.

**PIPE INSTALLATION**

PIPE INSTALLATION OF PVC WATER MAIN SHALL BE IN CONFORMANCE WITH ASTM D2774 (LATEST EDITION). INSTALLATION OF DUCTILE IRON PIPE WATER MAIN SHALL BE IN CONFORMANCE WITH AWWA C600.87.

COMPACTED BACKFILL SHALL BE TO 98% MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180 UNDER ALL PAVEMENTS WITH 12" MAXIMUM LIFT THICKNESS. OTHER COMPACTION OF BACKFILL SHALL BE TO 95% MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180 WITH 12" MAXIMUM LIFT THICKNESS. SEE PIPE TRENCHING DETAILS.

MINIMUM COVER OVER ALL PIPE SHALL BE 36" FROM TOP OF PIPE TO FINISHED GRADE. SEE PLAN AND PROFILE SHEETS FOR REQUIRED DEPTH.

WATER MAINS ARE TO BE INSTALLED SO AS TO PROVIDE A MINIMUM VERTICAL CLEARANCE OF 12" OR A MINIMUM HORIZONTAL CLEARANCE OF 10' FROM ALL OTHER UTILITIES. IF THE MINIMUM CLEARANCE CAN NOT BE ACHIEVED, THEN DUCTILE IRON WATER MAIN SHALL BE SPECIFIED 10 FEET EITHER SIDE OF THE CROSSING. HORIZONTAL AND VERTICAL MINIMUM SEPARATION DISTANCE REQUIREMENTS BETWEEN WATER MAIN AND ALL OTHER UTILITIES SHALL COMPLY WITH 622-555.314 (1), (2), (3), (4) AND (5) FAC.

ALL WATER MAINS SHALL BE INSTALLED WITH RESTRAINED JOINT FITTINGS. NO CONCRETE THRUST BLOCKS TO BE USED.

ALL PLUGS, CAPS, TEES, BENDS, FIRE HYDRANTS, VALVES, ETC. SHALL BE PROVIDED WITH MEGALUG PIPE RESTRAINTS. FOR RESTRAINT CONSTRUCTION SPECIFICATIONS, REFER TO THE WATER SYSTEM DETAILS.

ALL VALVES TO BE RESTRAINED AS DEAD ENDS IN BOTH DIRECTIONS.

Table with columns: DATE, REVISIONS, No.

CITY OF CLERMONT GENERAL NOTES

EASTSIDE VETERINARY HOSPITAL PROJECT # GE0162017 LAKE COUNTY, FLORIDA

GERMANA ENGINEERING and Associates, LLC 1120 W. MINOR ST. CLERMONT, FL 34711 Phone: (352) 942-9329 WWW.GERMANAENGINEERING.COM CERTIFICATE OF AUTHORIZATION: 29279

Table with columns: SCALE (N/A), DATE (11/15/17), SHEET (C-2)

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GENERAL NOTES AND DETAILS REVISED 4-11-2016



REVISIONS	DATE
1. REVISED PER SURVMD COMMENTS	12-04-17

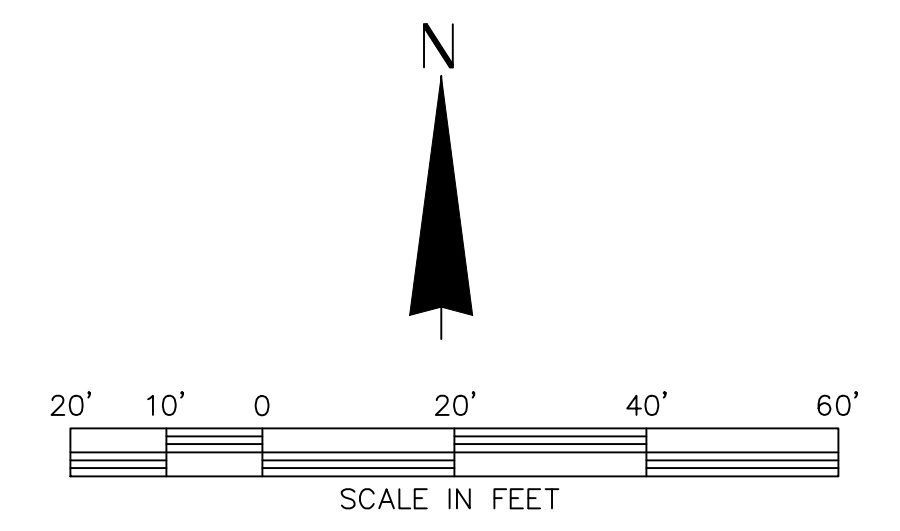
# SITE PLAN

## EASTSIDE VETERINARY HOSPITAL

PROJECT # GE0162017

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 CERTIFICATE OF AUTHORIZATION: 29279

SCALE 1" = 20'
DATE 11/15/17
SHEET <b>C-4</b>



### SITE DATA TABLE

- SITE AREA:**  
 ORIGINAL SURVEY - 91,727.45 SQUARE FEET, 2.11 ACRES  
 AFTER R/W DEDICATION - 83,504.40 SQUARE FEET, 1.92 ACRES
- SITE LOCATION:**  
 15016 PINE VALLEY BOULEVARD, CLERMONT, FL 34711  
 LOTS 8 AND 9, PINE VALLEY INDUSTRIAL PARK  
 SECTION 27, TOWNSHIP 22 E, RANGE 26 S
- PROPERTY DESCRIPTION:**  
 CURRENT CONDITION: VACANT LOT  
 PROPERTY ZONING: MP - PLANNED INDUSTRIAL
- BUILDING SETBACK:**

	REQUIRED	PROVIDED
NORTH (PINE VALLEY BLVD)	50'	70.44'
SOUTH (SIDE)	12'	143.04'
WEST (HANCOCK ROAD)	50'	106.33'
EAST (REAR)	25'	53.40'
- BUILDING DATA:**  
 TOTAL BUILDING AREA = 8,519 SF
- PARKING:**

REQUIRED PARKING	
1 SPACE PER 200 SF OF OFFICE/VET AREA	
8,519 SF X 1 SPACE/200 SF = 42.6	
USE 43 SPACES	
TOTAL PARKING PARKING REQUIRED = 43 SPACES	
PARKING PROVIDED	
STANDARD SPACES = 41	
HANDICAP SPACES = 2	
TOTAL PARKING SPACES = 43	
- AREA CALCULATIONS:**

TOTAL SITE AREA =	83,504.40 SF (1.92 AC)	100.00%
TOTAL PERVIOUS AREA =	57,491.93 SF (1.32 AC)	68.75%
TOTAL IMPERVIOUS AREA =	26,012.47 SF (0.60 AC)	31.25%
PROPOSED BUILDING =	8,519.00 SF	
PROPOSED PAVEMENT =	14,010.34 SF	
PROPOSED SIDEWALK =	3,488.13 SF	

### SITE PLAN LEGEND

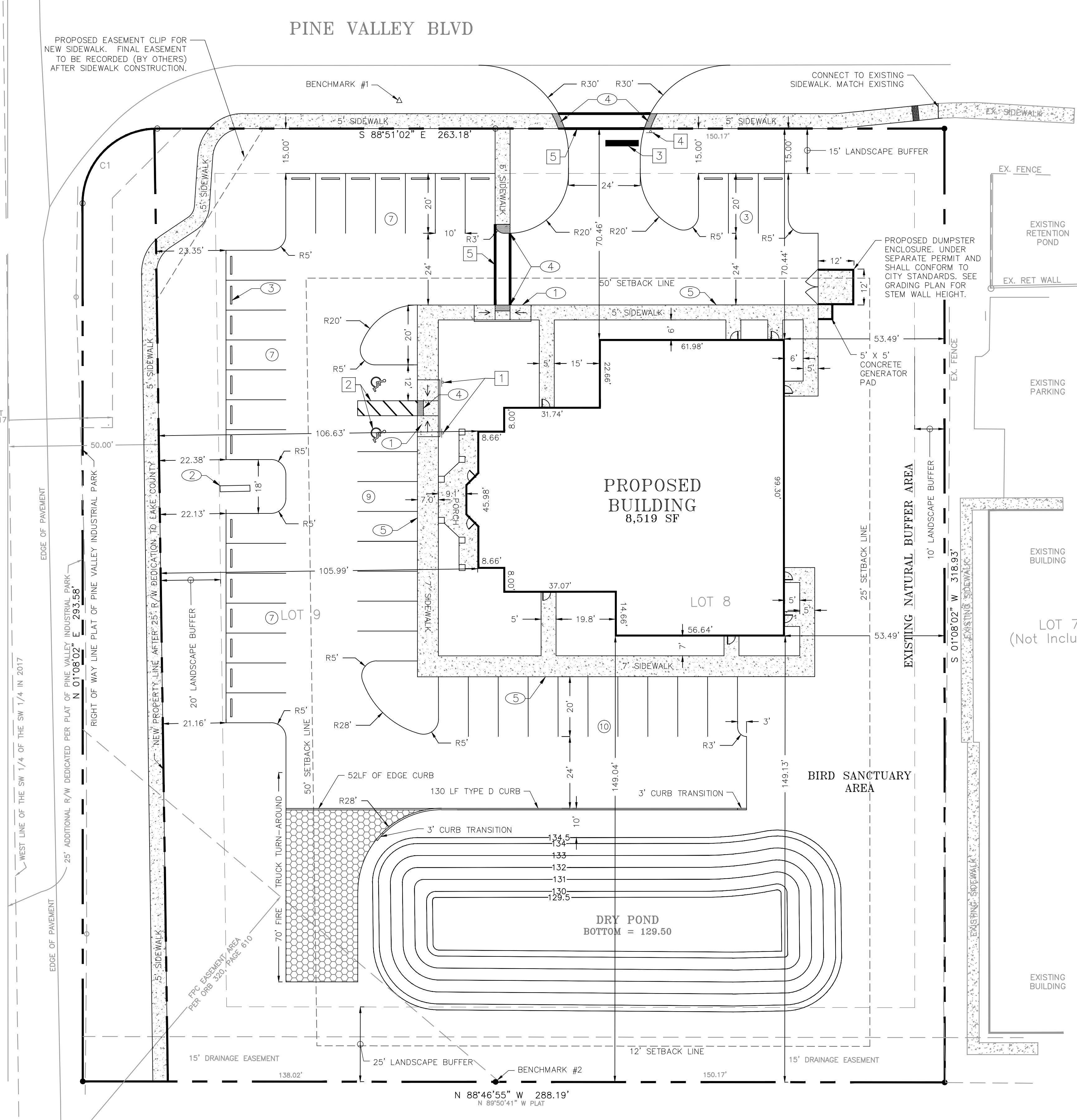
- PROPOSED CONCRETE SIDEWALK
- PARKING SPACE COUNT
- STABILIZED GRASSPAVE AREA  
SEE DETAIL SHEET C-8

### SIGNAGE, STRIPING LEGEND

- HANDICAP SIGN (PER LOCAL CODE)
- HANDICAP SPACE STRIPING. SEE SHEET C-8
- 24" WHITE PAINTED STOP BAR
- 30" STOP SIGN (R1-1)
- 5' WIDE - 12" WHITE PAINTED CROSSWALK

### SITE NOTES LEGEND

- HANDICAP RAMP. SEE DETAIL SHEET C-8.
- MONUMENT SIGN. SHOWN FOR REFERENCE ONLY. DESIGNED BY OTHERS.
- CONCRETE WHEEL STOP PLACED 2' FROM EDGE OF PAVEMENT. (SEE DETAIL SHEET C-8)
- 2' WIDE EXPOSED AGGREGATE DETECTABLE WARNING
- 6" RAISED SIDEWALK EDGE (SEE DETAIL SHEET C-8)



CURVE TABLE					
CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
C1	25.00'	39.28'	35.36'	N 46°08'30" E	90°00'57"

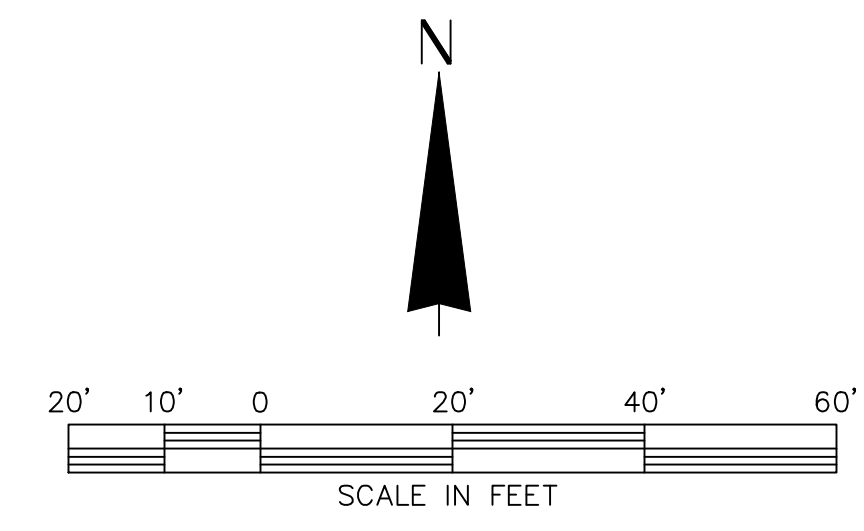
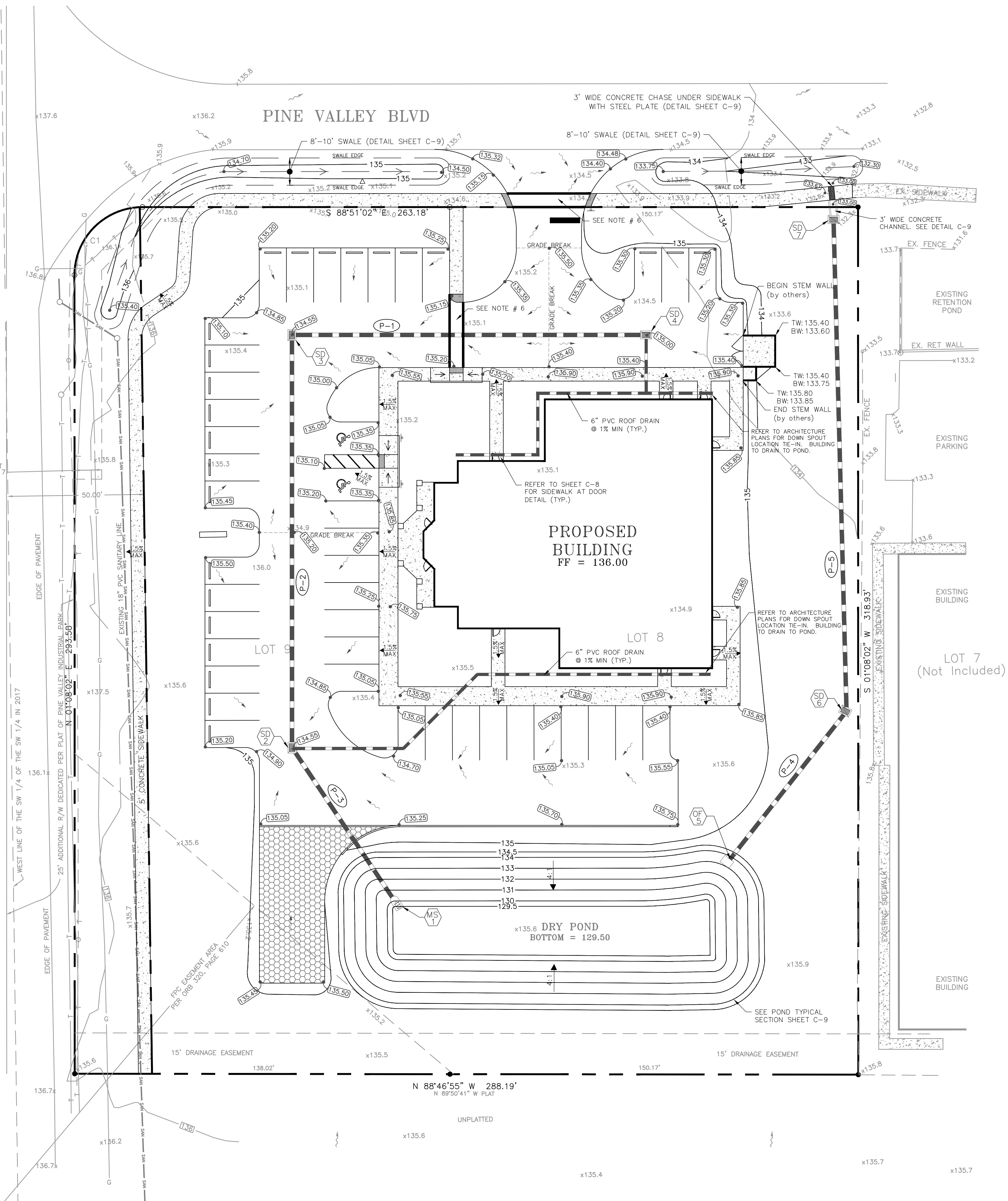
**SITE STAKEOUT NOTE:**  
 THE SITE CONSTRUCTION STAKEOUT SHALL BE PERFORMED UNDER THE DIRECTION OF A FLORIDA REGISTERED SURVEYOR. AUTOCAD FILE WILL BE PROVIDED TO AID IN THE SITE CONSTRUCTION STAKEOUT. ANY DISCREPANCIES FOUND BETWEEN THE AUTOCAD FILES SHALL BE BROUGHT TO THE ENGINEERS ATTENTION FOR CLARIFICATION PRIOR TO THAT STAKEOUT.

**ADA NOTE:**  
 SITE SHALL COMPLY WITH THE FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION, 2014 EDITION.

Christopher M. Germana, State of Florida, Professional Engineer, License No. 61682.  
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CHRISTOPHER M. GERMANA, P.E.  
 FLORIDA PROFESSIONAL ENGINEER # 61682  
 FIRM CERTIFICATE OF AUTHORIZATION # 29279

WEST LINE OF THE SW 1/4 OF THE SW 1/4 PER PLAT OF PINE VALLEY INDUSTRIAL PARK (1988)  
**HANCOCK ROAD**  
 25' EXISTING R/W PER PLAT OF PINE VALLEY INDUSTRIAL PARK



**LEGEND**

- OHW --- EXISTING OVERHEAD POWER LINE
- x xxx EXISTING SPOT ELEVATION
- (135.53) PROPOSED ELEVATION
- - - 143 - - - EXISTING GROUND CONTOUR
- 143 — PROPOSED GROUND CONTOUR
- PROPOSED FLOW ARROW
- EXISTING FLOW ARROW
- — — CONCRETE SIDEWALK
- — — PROPOSED STORM SEWER

**STRUCTURE TABLE (PROPOSED)**

- MS 1 STANDARD MITERED END SECTION (FDOT INDEX 272)  
INV. OUT = 129.50
- SD 2 TYPE C INLET  
TOP = 134.55  
INV. IN = 129.88 (N)  
INV. IN = 130.00 (NE)  
INV. OUT = 129.78 (SE)
- SD 3 TYPE C INLET  
TOP = 134.55  
INV. IN = 130.64 (E)  
INV. OUT = 130.54 (S)
- SD 4 TYPE C INLET  
TOP = 135.00  
INV. IN = 131.50 (S)  
INV. OUT = 131.21 (W)
- OF 5 TYPE C OVERFLOW STRUCTURE  
TOP = 133.52  
INV. OUT = 130.00 (NE)
- SD 6 TYPE C INLET  
TOP = 135.30  
INV. IN = 129.72 (SW)  
INV. OUT = 129.72 (N)
- SD 7 TYPE C INLET (OUTFLOW STRUCTURE)  
WITH CORED BOTTOM/STONE, DETAIL SHEET C-9  
TOP = 133.00  
INV. IN = 129.00 (S)

**PIPE TABLE**

- P-1 127 LF OF 18" ADS PIPE @ 0.45%
- P-2 148 LF OF 18" ADS PIPE @ 0.45%
- P-3 64 LF OF 18" ADS PIPE @ 0.45%
- P-4 68 LF OF 18" ADS PIPE @ 0.40%
- P-5 178 LF OF 18" ADS PIPE @ 0.40%

**NOTES**

1. SITE SHALL COMPLY WITH THE FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION, 2014 EDITION.
2. ALL SIDEWALK SLOPE SHALL BE ADA COMPLIANT. CROSS SLOPES SHALL NOT EXCEED 2% SLOPE. HANDICAP PARKING SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION.
3. CONTRACTOR TO VERIFY EXISTING SIDEWALK GRADES AT CONNECTION PRIOR TO NEW SIDEWALK CONCRETE POUR. THE EXISTING SIDEWALK AT THE CONNECTION POINTS
4. ELEVATIONS ARE TO THE EDGE OF GRAVEL, PAVEMENT, CONCRETE OR GRASS SPACE UNLESS OTHERWISE NOTED.
5. REFER TO LANDSCAPE PLANS FOR DETAILS ON LANDSCAPE ISLANDS.
6. GRADES IN CROSS WALL SHALL NOT EXCEED 1.5% CROSS SLOPE AND 5% LONGITUDINAL SLOPE.

**\*\*CAUTION\*\***  
 EXISTING UNDERGROUND AND OVERHEAD UTILITIES ARE LOCATED WITHIN THE PROJECT AREA. THE LOCATION OF THE EXISTING UTILITIES SHOWN IN THESE PLANS FOR REFERENCE INFORMATION ONLY. IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.

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NO.	REVISIONS	DATE
1.	REVISED PER SURVMD COMMENTS	12-04-17

**GRADING & DRAINAGE PLAN**

**EASTSIDE VETERINARY HOSPITAL**

PROJECT # GC0162017

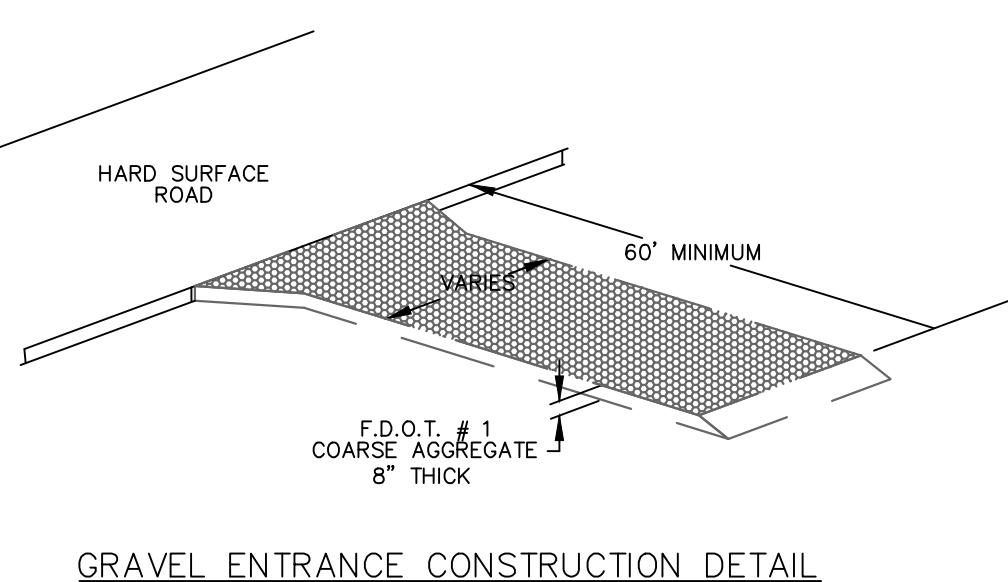
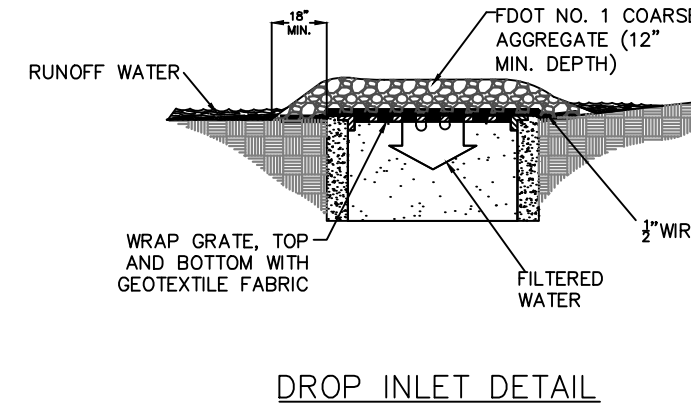
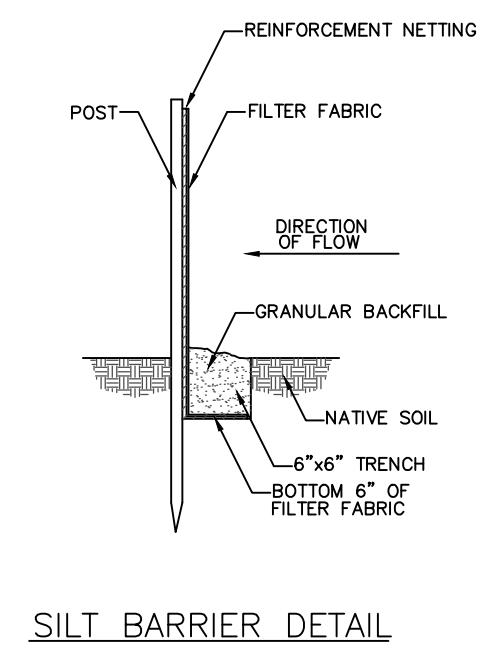
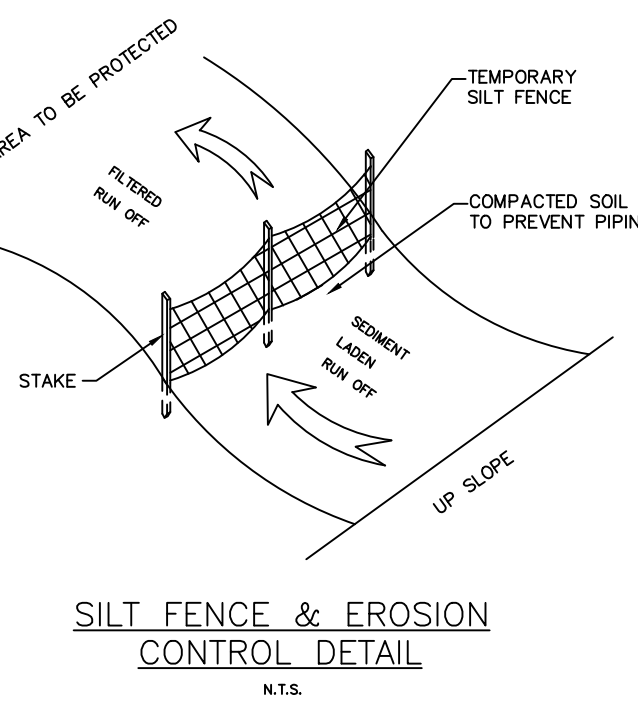
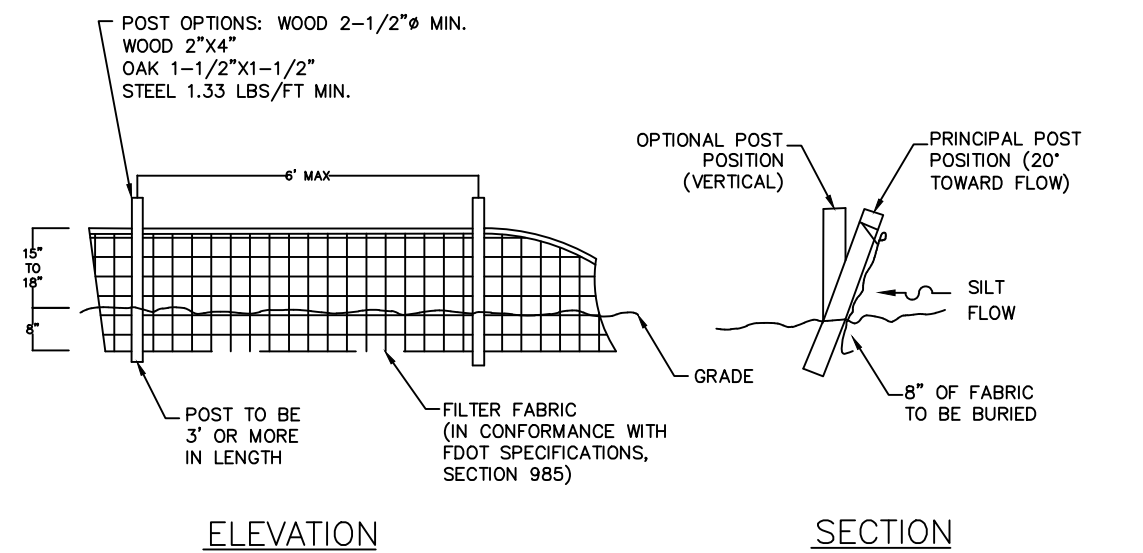
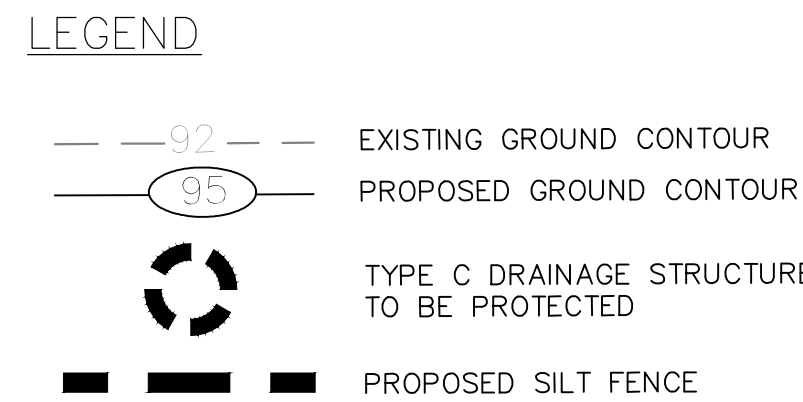
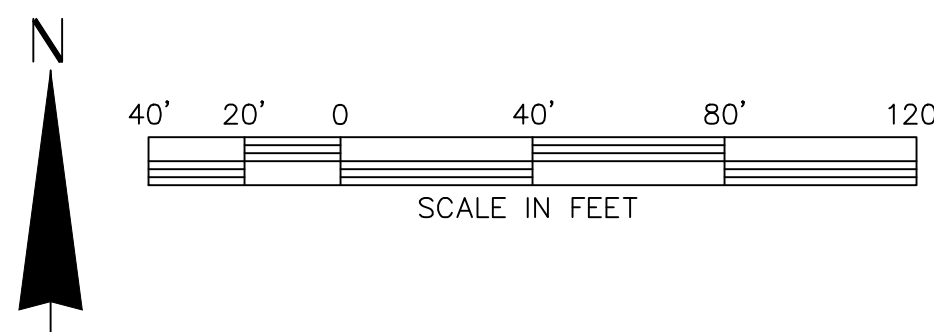
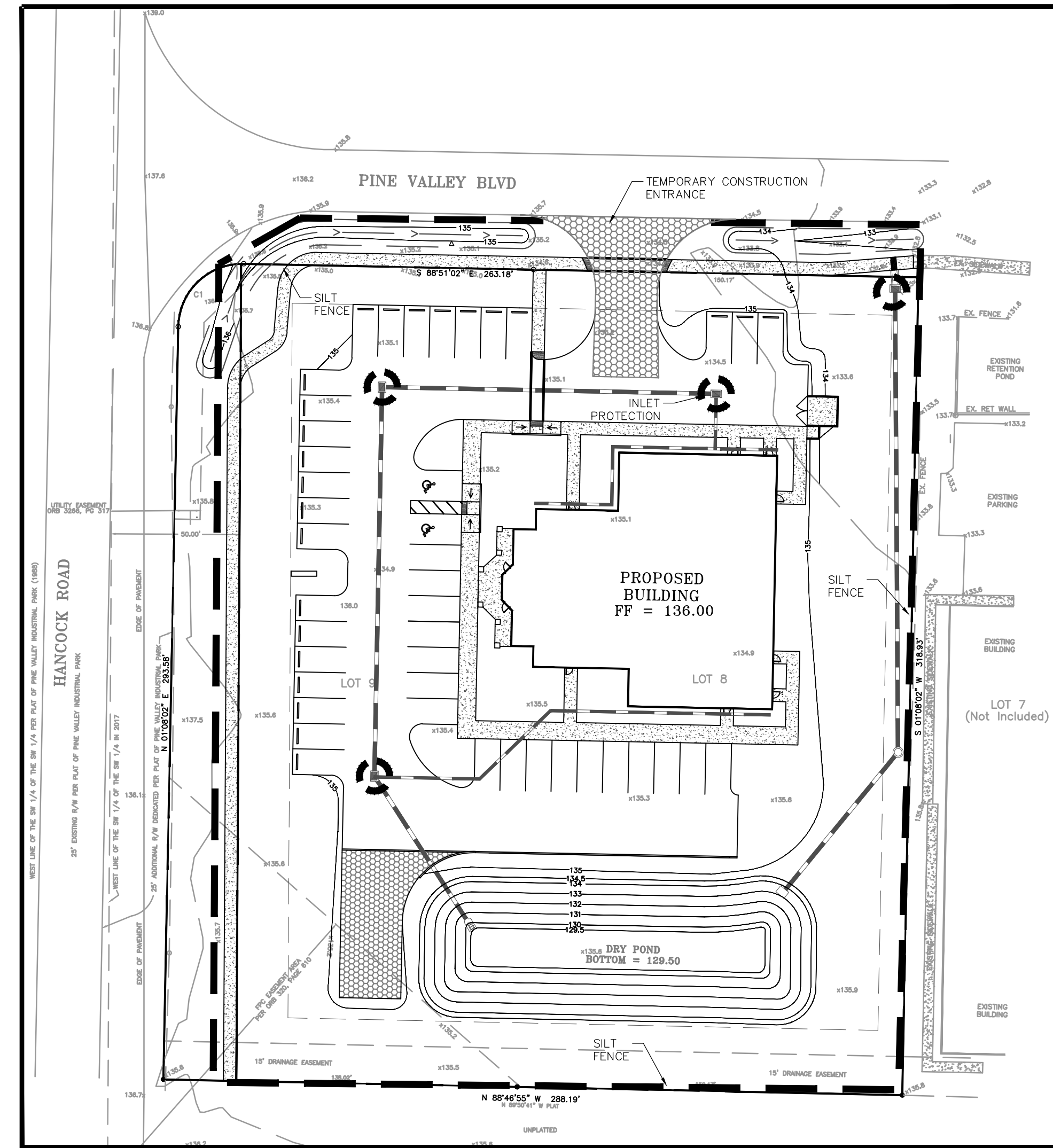
LAKE COUNTY, FLORIDA

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DATE 11/15/17

SHEET C-5



# EROSION CONTROL NOTES

## TIMING OF SEDIMENT - CONTROL PRACTICES:

1. SEDIMENT CONTROL PRACTICES SHALL BE FUNCTIONAL THROUGHOUT EARTH DISTURBING ACTIVITY.
2. SETTLING FACILITIES, PERIMETER CONTROLS, AND OTHER PRACTICES INTENDED TO TRAP SEDIMENT SHALL BE IMPLEMENTED AS THE FIRST STEP OF GRADING AND WITHIN SEVEN DAYS FROM THE START OF GRUBBING. THEY SHALL CONTINUE TO FUNCTION UNTIL THE UPSLOPE DEVELOPMENT AREA IS RESTABILIZED.

## STABILIZATION OF NON STRUCTURAL PRACTICES:

1. CONTROL PRACTICES SHALL PRESERVE EXISTING VEGETATION WHERE ATTAINABLE AND DISTURBED AREAS SHALL BE RE-VEGETATED AS SOON AS PRACTICAL AFTER GRADING OR CONSTRUCTION.
2. PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN FOURTEEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE, AND SHALL ALSO BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS WHICH MAY NOT BE AT FINAL GRADE, WHERE CONSTRUCTION ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED.

## MAINTENANCE:

TEMPORARY EROSION CONTROL FEATURES SHALL BE ACCEPTABLY MAINTAINED AND SHALL BE REMOVED OR REPLACED WHEN DIRECTED BY THE ENGINEER AT NO COST TO THE OWNER. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIFICATIONS.

## INLET PROTECTION:

ALL STORM SEWER INLETS WHICH ACCEPT WATER RUNOFF FROM THE DEVELOPMENT AREA SHALL BE PROTECTED SO THAT SEDIMENT-LADEN WATER WILL NOT ENTER THE STORM SYSTEM WITHOUT FIRST BEING PONDED AND FILTERED.

## SEDIMENT BARRIERS:

SHEET FLOW RUNOFF FROM DENUDED AREAS SHALL BE INTERCEPTED BY SEDIMENT BARRIERS

SEDIMENT BARRIERS SUCH AS SEDIMENT FENCE OR DIVERSIONS TO SETTLING FACILITIES SHALL PROTECT ADJACENT PROPERTIES AND WATER RESOURCES FROM SEDIMENT TRANSPORTED BY SHEET FLOW.

## CONSTRUCTION ACCESS ROUTES:

MEASURES SHALL BE TAKEN TO PREVENT SOIL TRANSPORT ONTO SURFACES OR PUBLIC ROADS WHERE RUNOFF IS NOT CHECKED.

## STOCKPILES:

ALL SOIL STOCKPILES SHALL BE PROTECTED FROM EROSION BY PERIMETER CONTROL DEVICES SUCH AS STRAW BALE DIKES OR FILTER FABRIC FENCES, AND THESE PERIMETER CONTROL DEVICES SHALL BE MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT.

## PERMANENT VEGETATION:

PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL GROUND COVER IS ACHIEVED WHICH, IN THE OPINION OF THE ENGINEER, PROVIDES ADEQUATE COVER AND IS MATURE ENOUGH TO CONTROL SOIL EROSION SATISFACTORILY AND TO SURVIVE ADVERSE WEATHER CONDITIONS.

## INSPECTION SCHEDULE:

1. DIVERSION SWALE AND STRUCTURAL PROTECTION - INSPECT EVERY 7 DAYS OR AFTER EACH RAINSTORM PRODUCING RUNOFF. REPAIR AS REQUIRED.
2. INLET PROTECTION - INSPECT FOR SEDIMENT ACCUMULATION AFTER EACH RAINFALL AND DAILY DURING CONTINUED RAINFALL. REPAIR OR REPLACE WHEN WATER FLOW IS RESTRICTED BY SEDIMENT.
3. VEGETATIVE PLANTING - INSPECT AFTER SPROUTING OCCURS AND REPLANT BARE AREAS. INSPECT ESTABLISHED COVER EVERY 15 DAYS FOR DAMAGE; REPLANT AS REQUIRED. MAINTAIN ESTABLISHED COVER AT MAXIMUM 6" HEIGHT. IRRIGATE AS REQUIRED DURING DRY PERIODS TO MAINTAIN LIVE VEGETATION.

## CONSTRUCTION SEQUENCE:

1. INSTALL SEDIMENT CONTROL MEASURES
2. ROUGH GRADE SITE & STOCKPILE TOPSOIL
3. TEMPORARY VEGETATION
4. INSTALL STORM WATER MANAGEMENT MEASURES
5. INSTALL ROAD & PARKING BASE
6. SURFACE ROADS & PARKING
7. FINAL GRADING
8. PERMANENT VEGETATION
9. INSTALLING LANDSCAPING
10. PERFORM CONTINUING MAINTENANCE

## SEDIMENT FENCE:

1. THIS SEDIMENT BARRIER UTILIZES STANDARD STRENGTH OR EXTRA STRENGTH SYNTHETIC FILTER FABRICS. IT IS DESIGNED FOR SITUATIONS IN WHICH ONLY SHEET OR OVERLAND FLOWS ARE EXPECTED.
2. THE HEIGHT OF A SEDIMENT FENCE SHALL NOT EXCEED 36-INCHES (HIGHER FENCES MAY IMPOUND VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURE).
3. THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6-INCH OVERLAP, AND SECURELY SEALED.
4. POSTS SHALL BE SPACED A MAXIMUM OF 10 FEET APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 12 INCHES), WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 6 FEET.
5. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4 INCHES WIDE AND 4 INCHES DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER.
6. WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1-INCH LONG, THE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2 INCHES AND SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
7. THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 8-INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE EXISTING TREES.

## SEDIMENT FENCE MAINTENANCE:

1. SEDIMENT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
2. SHOULD THE FABRIC ON A SEDIMENT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER IS STILL NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
3. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-THIRD THE HEIGHT OF THE BARRIER.
4. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SEDIMENT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED, AND SEEDED.

## DITCH BARRIERS:

1. BALES SHALL BE PLACED IN A SINGLE ROW, LENGTHWISE, ORIENTED PERPENDICULAR TO THE CONTOUR, WITH ENDS OF ADJACENT BALES TIGHTLY ABUTTING ONE ANOTHER.
2. THE REMAINING STEPS FOR INSTALLING A STRAW BALE BARRIER FOR SHEET FLOW APPLICATIONS APPLY HERE, WITH THE FOLLOWING ADDITION.
3. THE STRAW BALES SHALL BE INSTALLED SUCH THAT UNDERCUTTING BENEATH THE BALES IS MINIMIZED BY THE USE OF ROCK CHECK DAMS PLACED ADJACENT TO THE STRAW BALES.
4. THE BARRIER SHALL BE EXTENDED TO SUCH A LENGTH THAT THE BOTTOMS OF THE END BALES ARE HIGHER IN ELEVATION THAN THE TOP OF THE LOWEST MIDDLE BALE TO ASSURE THAT SEDIMENT-LADEN RUNOFF WILL FLOW EITHER THROUGH OR OVER THE BARRIER BUT NOT AROUND IT.

## DITCH BARRIER MAINTENANCE:

1. STRAW BALES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.
2. CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED BALES, END RUNS AND UNDERCUTTING BENEATH BALES.
3. NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT OF BALES SHALL BE ACCOMPLISHED PROMPTLY.
4. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL. THEY MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
5. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE STRAW BALE BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.

## STORMWATER POLLUTION PREVENTION PLAN

1. ATTENTION IS DRAWN TO THE FACT THAT THIS PROJECT IS PERMITTED UNDER THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE FAMILIAR WITH THE REQUIREMENTS OF THIS PERMIT, AND TO UNDERTAKE ANY MEASURES NECESSARY TO COMPLY WITH SAID REQUIREMENTS.
2. IT MAY BE NECESSARY, DUE TO WEATHER CONDITIONS, PHASING OF CONSTRUCTION ACTIVITIES, QUANTITY AND TYPE OF MATERIALS, ETC., TO TAKE ADDITIONAL MEASURES TO COMPLY WITH THE N.P.D.E.S. PERMIT THAT ARE NOT OUTLINED IN THESE PLANS. THE CONTRACTOR IS FULLY RESPONSIBLE FOR IMPLEMENTATION OF WHATEVER MEANS ARE NECESSARY TO PREVENT THE DISCHARGE OF POLLUTANTS, INCLUDING BUT NOT LIMITED TO TURBID WATER RUNOFF AND FUGITIVE AIRBORNE PARTICULATE POLLUTANTS.
3. THE CONTRACTOR IS FURTHER ADVISED THAT A SEPARATE STORMWATER POLLUTION PREVENTION PLAN (S.W.P.P.P.) HAS BEEN PREPARED FOR THIS PROJECT AND IS HEREBY MADE PART OF THE CONSTRUCTION DOCUMENTS.
4. THIS INFORMATION REPRESENTS THE MINIMUM AMOUNT OF EROSION AND SEDIMENT CONTROL MEASURES, IN THE OPINION OF THE ENGINEER, THAT MAY BE NECESSARY UNDER FAVORABLE WEATHER CONDITIONS. THE CONTRACTOR IS RESPONSIBLE FOR ANY ADDITIONAL MEASURES OR PRACTICES THAT MAY BE NECESSARY TO CONTROL EROSION, TURBID DISCHARGE, FUGITIVE PARTICULATES, ETC. TO FULLY COMPLY WITH ALL GOVERNMENTAL RULES AND/OR PERMIT REQUIREMENTS.

## SEDIMENT AND EROSION CONTROL SUMMARY

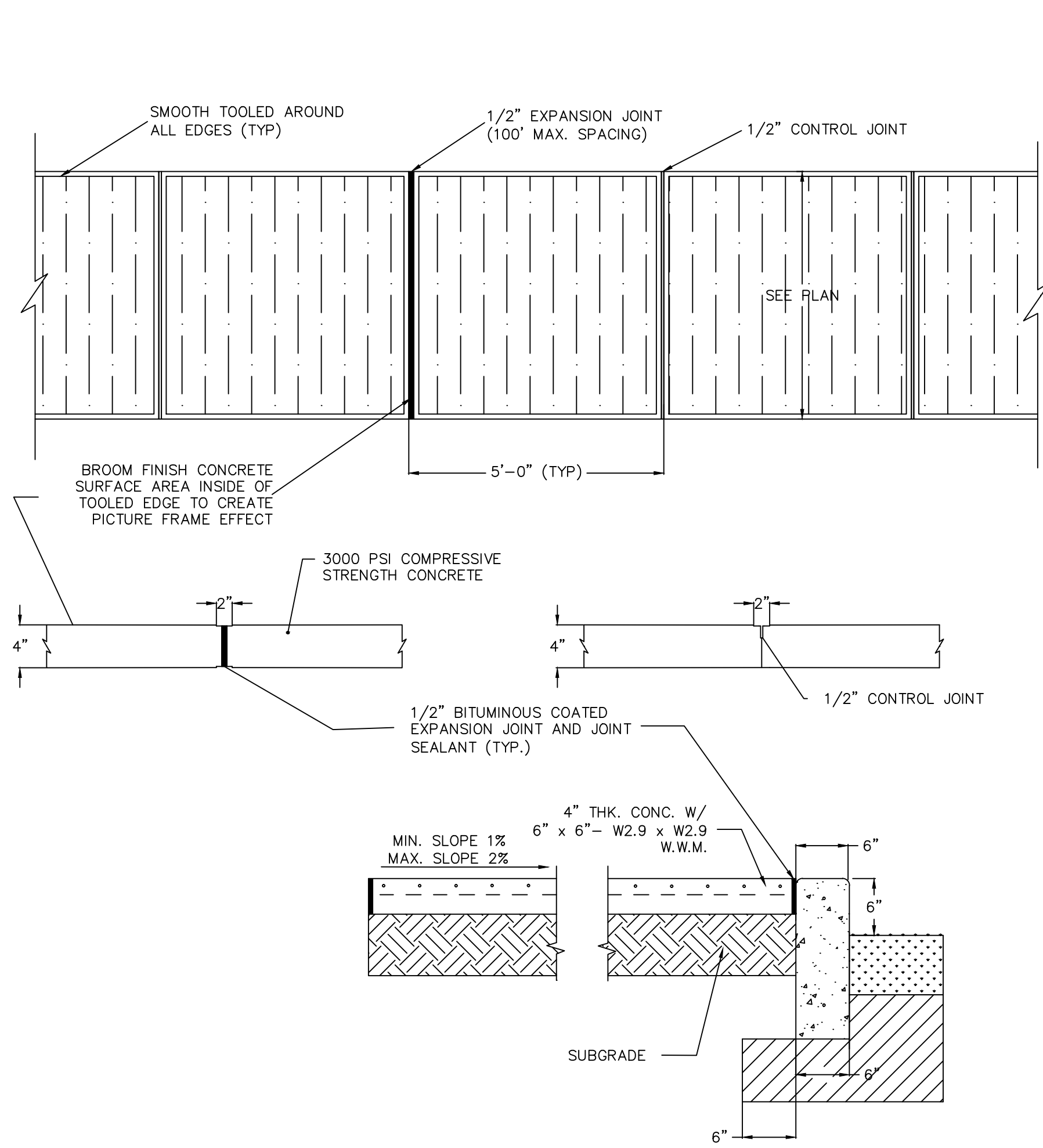
EROSION PLAN DESIGNER:	GERMANA ENGINEERING AND ASSOCIATES, LLC 1120 W. MINNEOLA AVENUE CLERMONT, FL 34711 PHONE: 352-242-9329
OWNER/DEVELOPER:	ANDOC LLC 731 E HIGHWAY 50 CLERMONT, FL 34711 PHONE: (352) 394-6624
SITE CONTACT:	LAKE CONSTRUCTION AND DEVELOPMENT COMPANY CONTACT: BOB THOMPSON 211 CITRUS TOWER BLVD CLERMONT, FL 34711 PHONE: (352) 708-6599
AREA ADJACENT TO SITE:	THE SUBJECT SITE IS BORDERED BY DEVELOPED PROPERTY TO THE EAST, THE SITE IS BORDERED BY AN EXISTING ROAD TO THE NORTH AND WEST, THE PROPERTY TO THE SOUTH IS UNDEVELOPED PROPERTY.
EROSION CONTROL MEASURES:	EROSION AND RUNOFF WILL BE CONTROLLED BY SEDIMENT FENCE AS NEEDED.

## SEDIMENT AND EROSION CONTROL NOTES:

1. THE FOLLOWING LIST REPRESENTS A BASIC EROSION AND SEDIMENT CONTROL PROGRAM WHICH IS TO BE IMPLEMENTED TO HELP PREVENT OFF SITE SEDIMENTATION DURING AND AFTER CONSTRUCTION OF THE PROJECT.
2. TEMPORARY EROSION CONTROL TO BE UTILIZED DURING CONSTRUCTION AT AREAS DESIGNATED BY THE ENGINEER OR AREAS ON SITE WHERE UNSTABILIZED GRADES MAY CAUSE EROSION PROBLEMS. EROSION CONTROL MAY BE REMOVED AFTER UPSLOPE AREA HAS BEEN STABILIZED BY SOD, OR COMPACTED AS DETERMINED BY THE ENGINEER.
3. PERMANENT EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AT THE EARLIEST PRACTICAL TIME CONSISTENT WITH GOOD CONSTRUCTION PRACTICES. ONE OF THE FIRST CONSTRUCTION ACTIVITIES SHOULD BE THE PLACEMENT OF PERMANENT AND TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AROUND THE PERIMETER OF THE PROJECT OR THE INITIAL WORK AREA TO PROTECT THE PROJECT, ADJACENT PROPERTIES AND WATER RESOURCES.
4. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE COORDINATED WITH PERMANENT MEASURES TO ASSURE ECONOMICAL, EFFECTIVE AND CONTINUOUS CONTROL THROUGHOUT THE CONSTRUCTION PHASE. TEMPORARY MEASURES SHALL NOT BE CONSTRUCTED FOR EXPEDIENCY IN LIEU OF PERMANENT MEASURES.
5. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE ADEQUATELY MAINTAINED TO PERFORM THEIR INTENDED FUNCTION DURING CONSTRUCTION OF THE PROJECT.
6. NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT OF BARRIERS SHALL BE ACCOMPLISHED PROMPTLY.
7. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL. THEY MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER.
8. MATERIAL FROM SEDIMENT TRAPS SHALL NOT BE STOCKPILED OR DISPOSED OF IN A MANNER WHICH MAKES THEM READILY SUSCEPTIBLE TO BEING WASHED INTO ANY WATERCOURSE BY RUNOFF OR HIGH WATER.
9. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE BARRIERS ARE NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.

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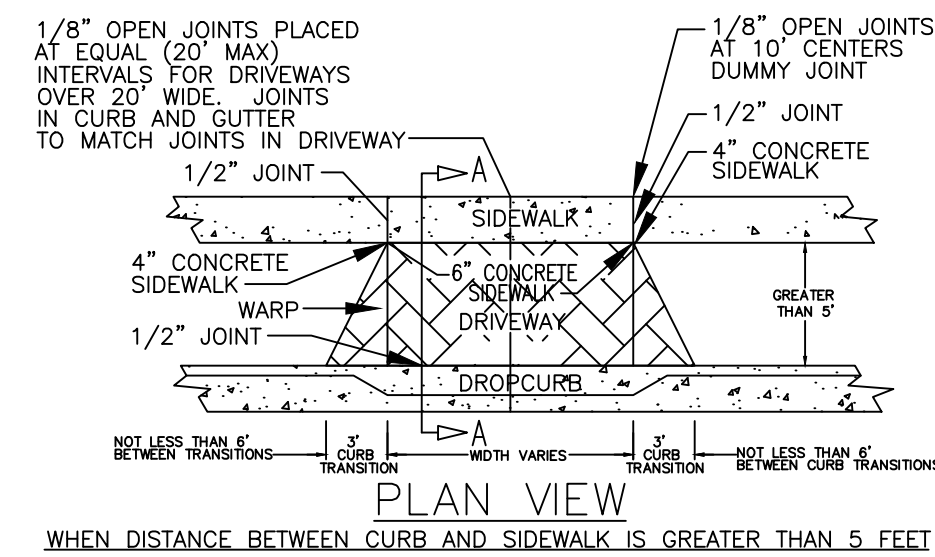
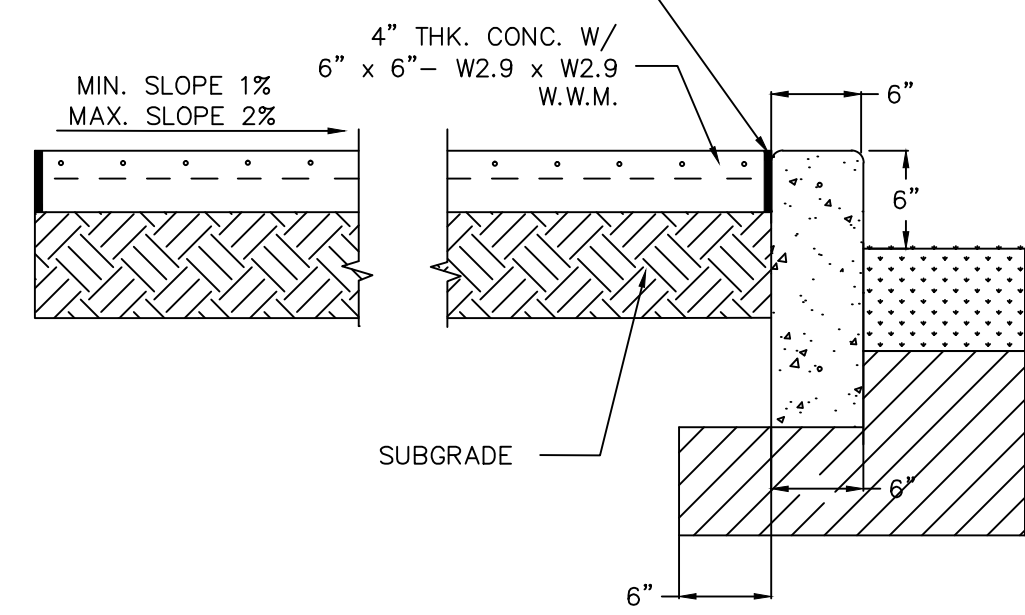
DATE	
REVISIONS	
NO.	
<b>EROSION CONTROL PLAN &amp; NOTES</b>	
<b>EASTSIDE VETERINARY HOSPITAL</b>	
PROJECT # GC0162017	
LAKE COUNTY, FLORIDA	
GERMANA ENGINEERING and Associates, LLC © COPYRIGHT 2017 1120 W. MINNEOLA AVENUE CLERMONT, FL 34711 Phone: (352) 242-9329 WWW.GERMANAENGINEERING.COM CERTIFICATE OF AUTHORIZATION: 29279	
SCALE	1" = 20'
DATE	11/15/17
SHEET	C-7



- ① 1 1/2" TYPE S-III A.C.S.C. PAVEMENT, MEETING CURRENT FLORIDA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS. THE WEARING SURFACE SHOULD BE COMPACTED TO A MINIMUM DENSITY OF 95 PERCENT OF THE LABORATORY DENSITY AS DETERMINED BY THE MARSHALL STABILITY TEST METHOD FOR THE APPROVED JOB MIX FORMULA.
  - ② 8" LIMEROCK BASE COURSE. QUALITY OF LIMEROCK TO BE IN ACCORDANCE WITH CURRENT FLORIDA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS AND COMPACTED TO A MINIMUM DENSITY EQUIVALENT TO 95 PERCENT OF THE MODIFIED PROCTOR (AASHTO T-180), PRIMED, COMPACTED TO 98% OF THE MAXIMUM DENSITY, PER AASHTO T-180
- OR
- ② 6" CRUSHED CONCRETE BASE COURSE. QUALITY OF CRUSHED CONCRETE TO BE IN ACCORDANCE WITH CURRENT FLORIDA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS AND COMPACTED TO A MINIMUM DENSITY EQUIVALENT TO 98 PERCENT OF THE MODIFIED PROCTOR (AASHTO T-180). THE CRUSHED CONCRETE BASE MATERIAL SHOULD HAVE A MINIMUM LBR VALUE OF 120. THE MATERIAL GRADATION SHOULD BE IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (SECTION 204).
- ③ 12" STABILIZED SUBGRADE WITH A MINIMUM FLORIDA BEARING VALUE (FBV) OF 50 PSI OR (LBR) OF 40 PERCENT. THE SUBBASE SHOULD BE COMPACTED TO 95% OF THE MODIFIED PROCTOR MAXIMUM DENSITY (AASHTO T-180) FOR A DEPTH OF 1 FOOT BELOW PAVEMENT SUBGRADE

TYPICAL PAVEMENT SECTION  
N.T.S.

TYPICAL CONCRETE SIDEWALK DETAIL  
N.T.S.

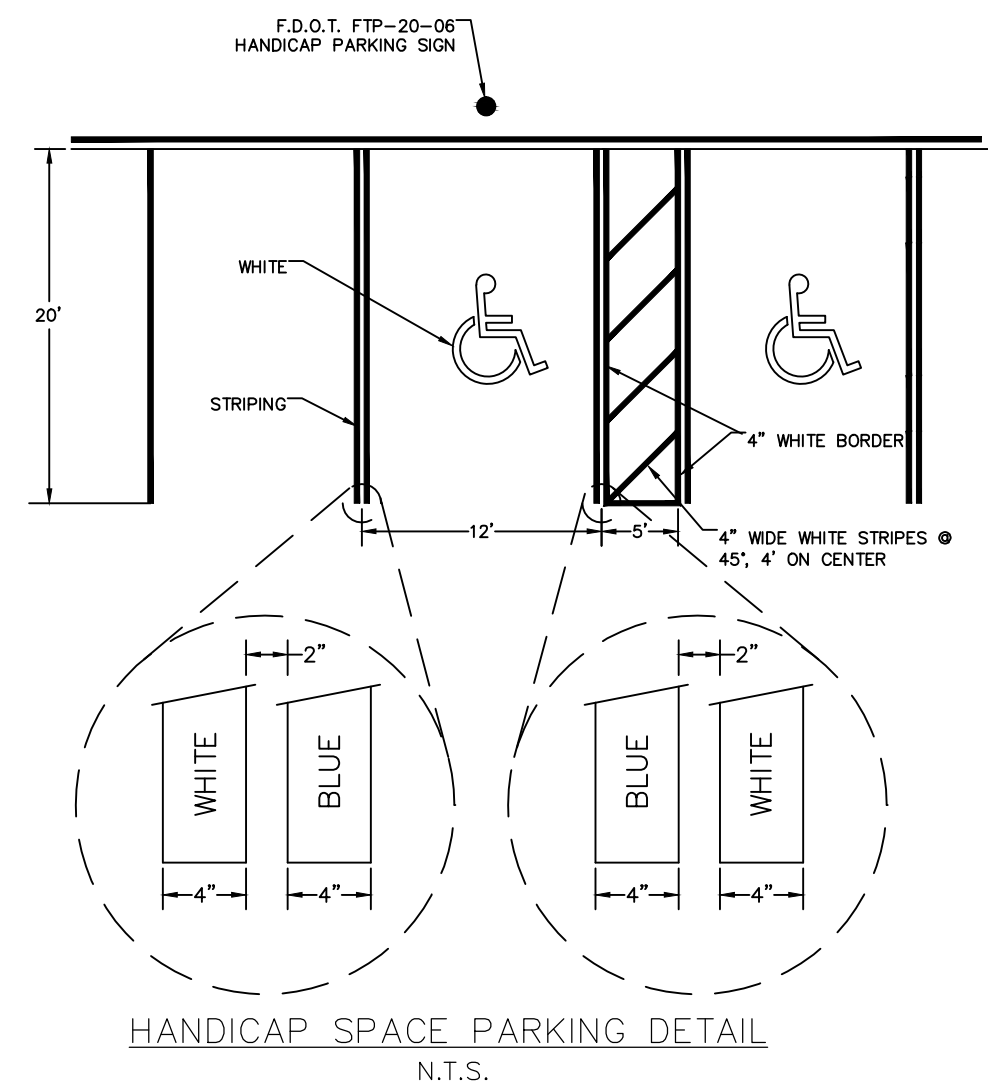


SECTION A-A

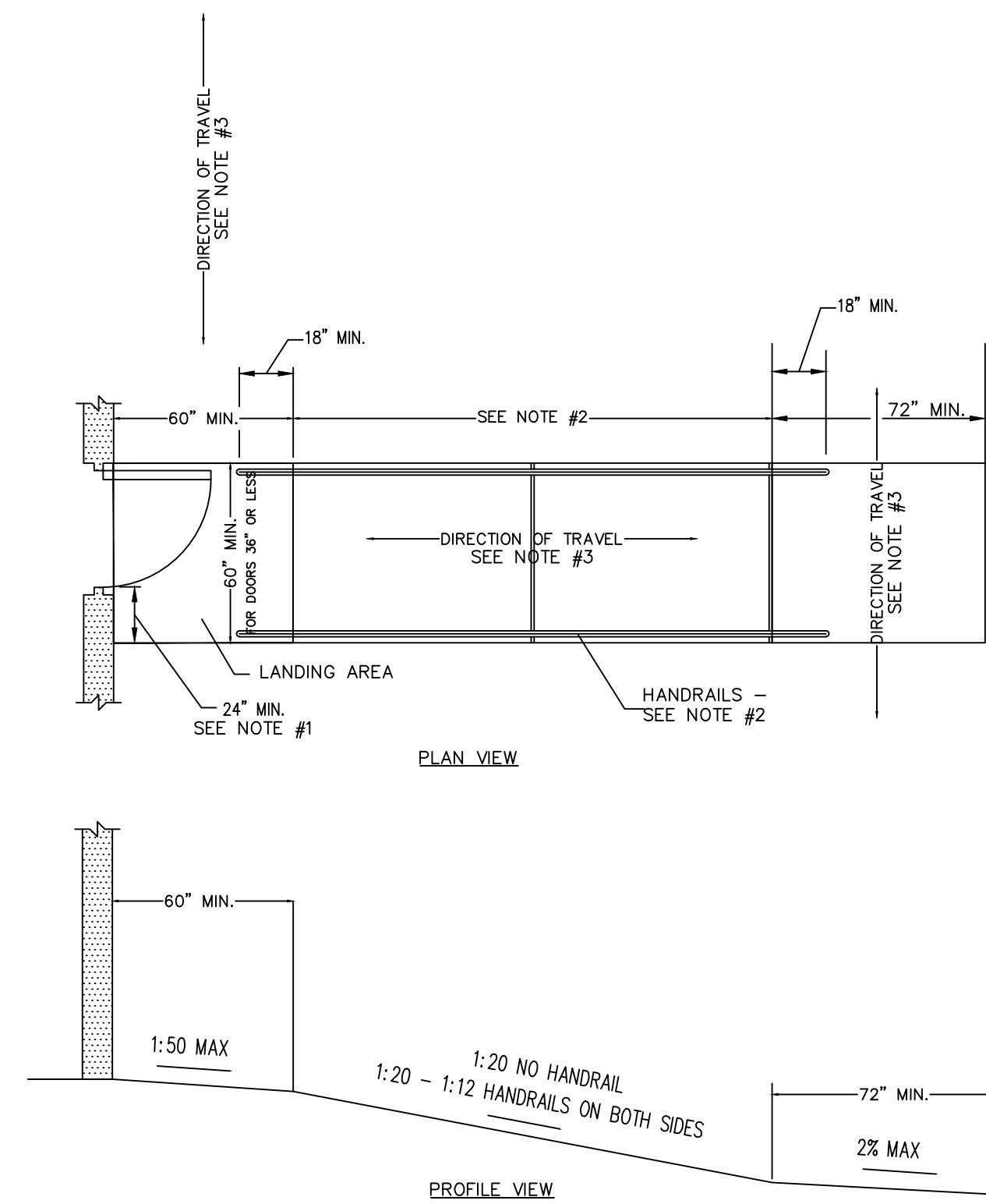
- \* SLOPES CAN BE ADJUSTED WITHIN THE RANGES SHOWN TO IMPROVE TIES TO ADJACENT PROPERTY AND ARE TO BE TRANSITIONED TO AVOID DISTORTION BE TRANSITIONED TO AVOID DISTORTION IN SIDEWALK CONTINUITY
- \*\* SPECIAL PERMISSION MAY BE OBTAINED TO INCREASE OR DECREASE SLOPE OF DRIVEWAY TO IMPROVE TIES TO SIDEWALK AND GUTTER GRADE
- NOTE: DRIVEWAYS AND SIDEWALKS THROUGH DRIVEWAYS SHALL REQUIRE 6" x 6" REINFORCEMENT WIRE OR 3,000 PSI FIBER REINFORCED CONCRETE.

- CHECK AND VERIFY THESE ITEMS:
- 6" W/WIRE
  - 3" TAPER CUT SQUARE
  - 5" SIDEWALK TO R/W
  - SLOPE VARIES \*\* (1/2") .04 FT./FT. NORMAL
  - (1/4") .02 FT./FT. MIN.
  - (3/4") .06 FT./FT. MAX.

SIDEWALK AND PAVED DRIVEWAY CONSTRUCTION  
N.T.S.



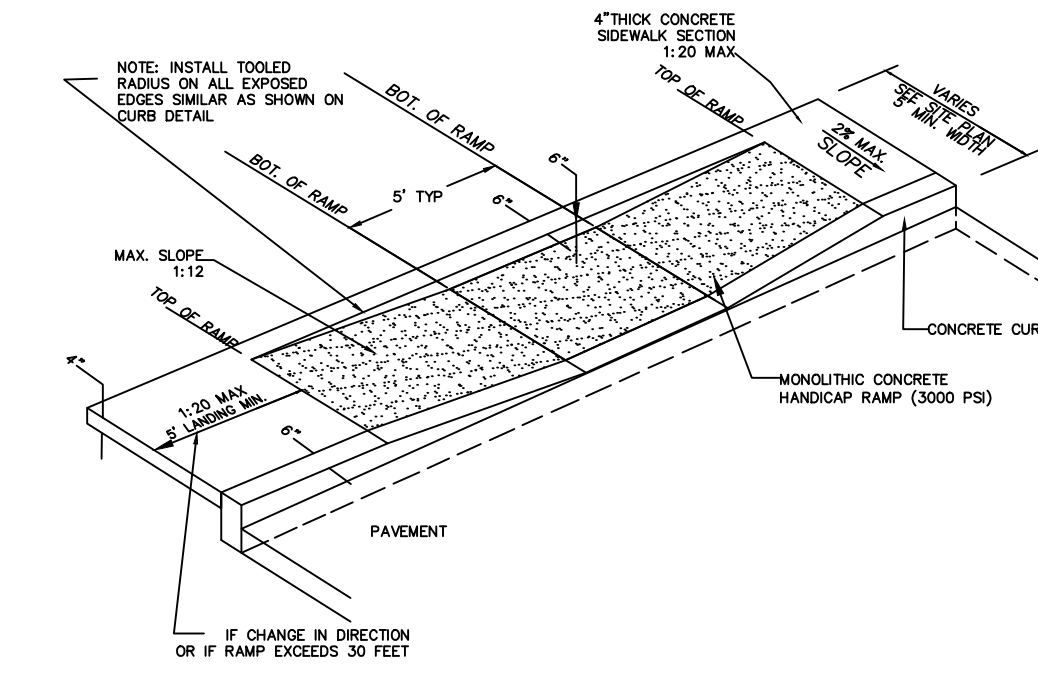
HANDICAP SPACE PARKING DETAIL  
N.T.S.



NOTES:

1. IF APPROACH TO DOOR IS FROM HINGE SIDE AND SIDEWALK RAMP IS ONLY 60" WIDE, THE MINIMUM DISTANCE FROM THE LATCH SIDE OF THE DOOR TO THE EDGE OF THE LANDING IS 42".
2. IF SLOPE IS 1:20 (5%) OR LESS, LENGTH IS UNLIMITED AND AREA IS CONSIDERED A WALK. IF SLOPE IS BETWEEN 1:20 (5%) AND 1:12 (8.33%) LENGTH IS LIMITED TO 72" WITHOUT HANDRAILS. LENGTHS GREATER THAN 72" REQUIRE HANDRAILS ON BOTH SIDES. AREA IS CONSIDERED A RAMP.
3. IN ALL CASES, CROSS-SLOPE (SLOPE PERPENDICULAR TO DIRECTION OF TRAVEL) IS MAX. 1:50 (2%).

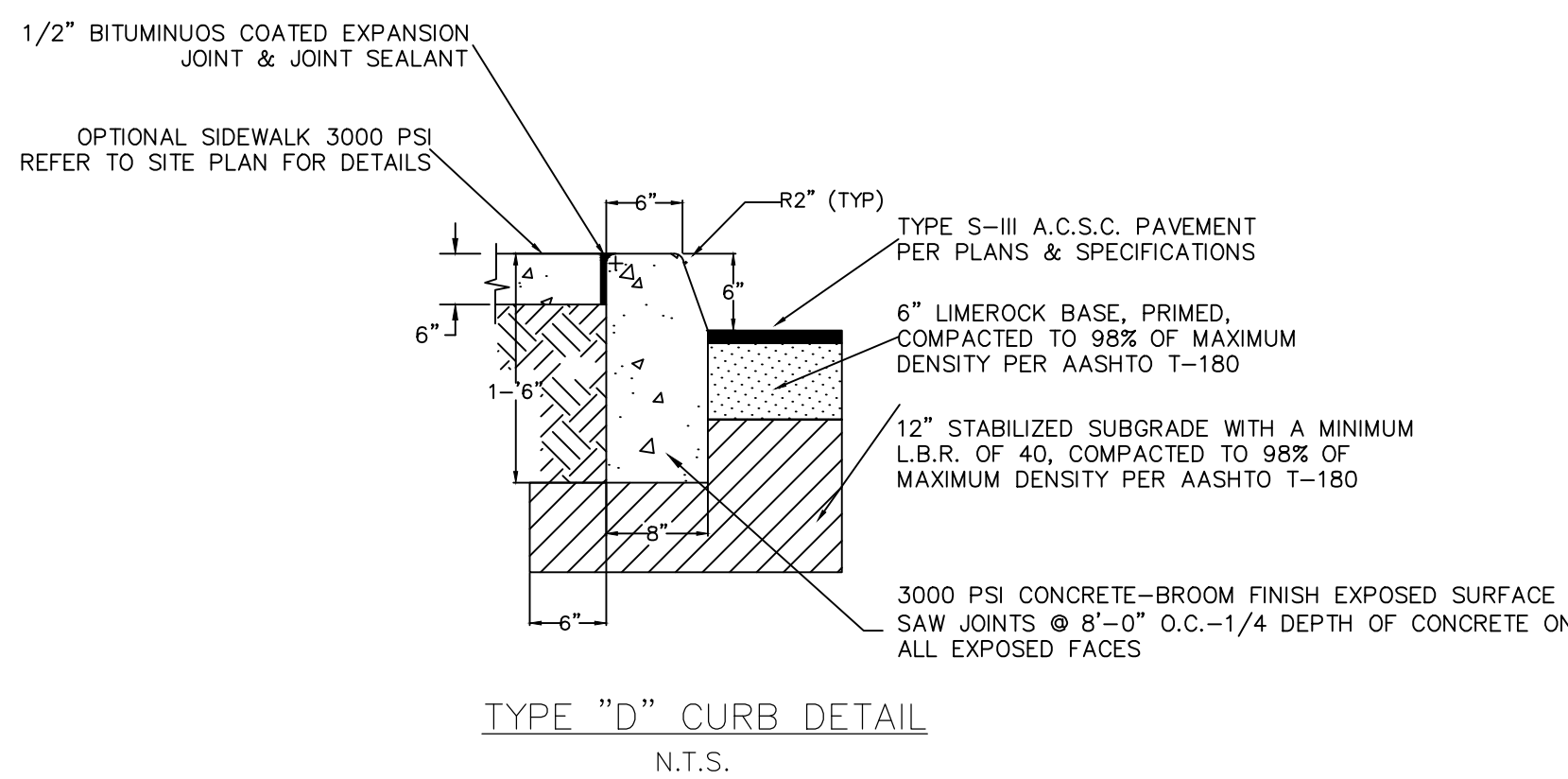
SIDEWALK AT DOOR  
N.T.S.



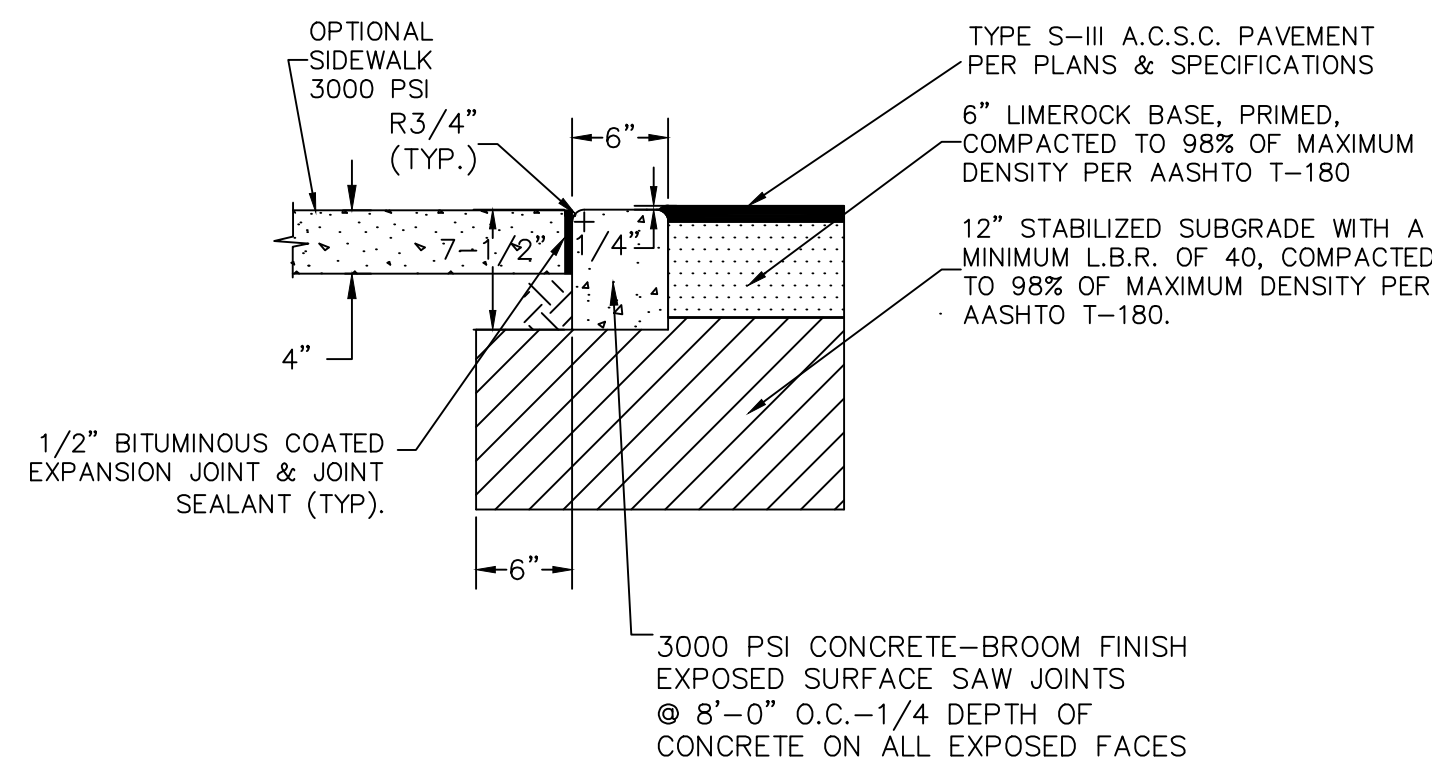
\* 4'-0" MIN.

HANDICAP RAMPES	
SIDEWALK SLOPE	MIN. RAMP LENGTH (FT.)
0.00 %	6.00
0.25 %	6.19
0.50 %	6.39
0.75 %	6.60
1.00 %	6.82
1.25 %	7.06
1.50 %	7.32
1.75 %	7.60
2.00 %	7.90

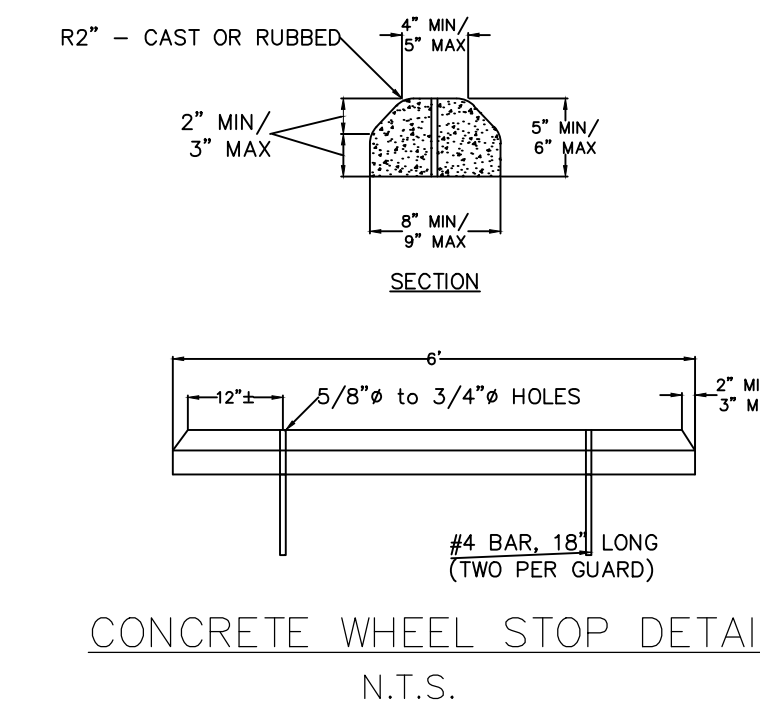
RAMP DETAIL  
N.T.S.



TYPE "D" CURB DETAIL  
N.T.S.



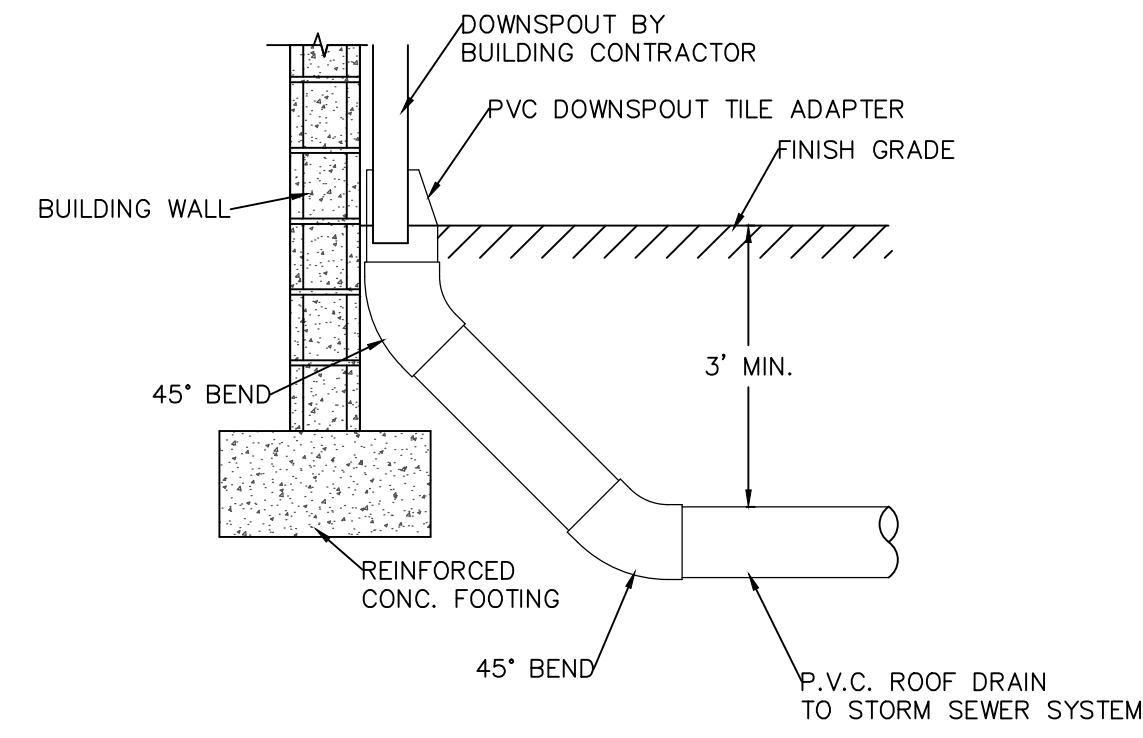
6" EDGE CURB  
N.T.S.



CONCRETE WHEEL STOP DETAIL  
N.T.S.

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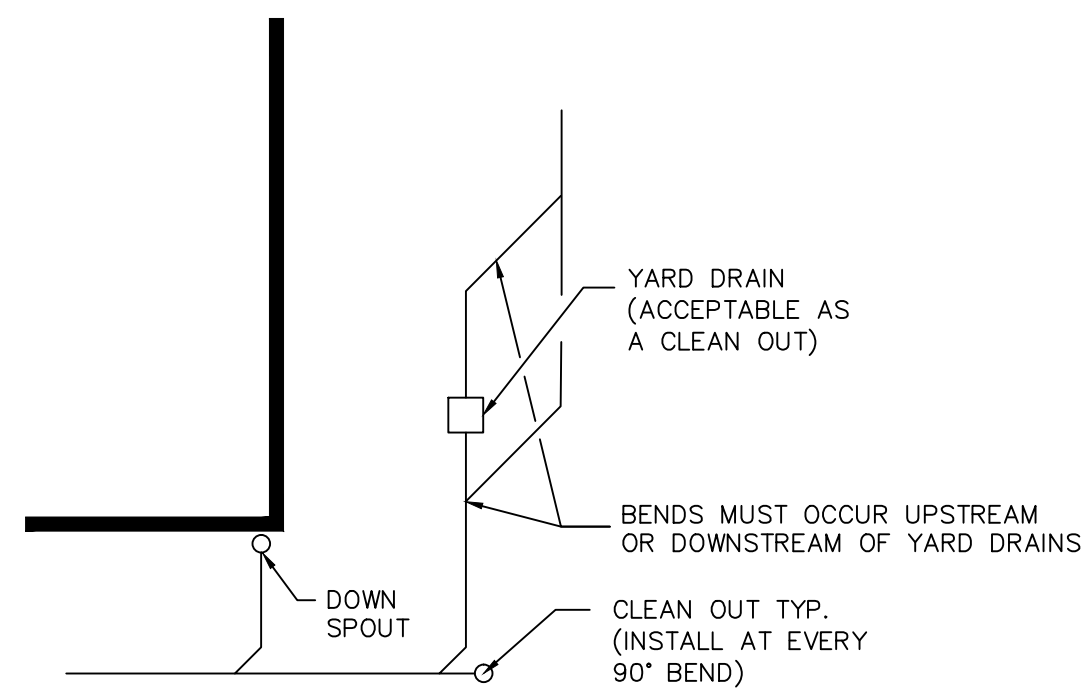
DATE	
REVISIONS	
No.	
<b>CONSTRUCTION DETAILS</b>	
<b>EASTSIDE VETERINARY HOSPITAL</b>	
PROJECT # GE0162017 LAKE COUNTY, FLORIDA	
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SCALE	"N"
DATE	11/15/17
SHEET	C-8



NOTE: CONTRACTOR TO VERIFY THAT DOWNSPOUTS WILL FIT INTO ROOF DRAIN PIPE PRIOR TO INSTALLATION

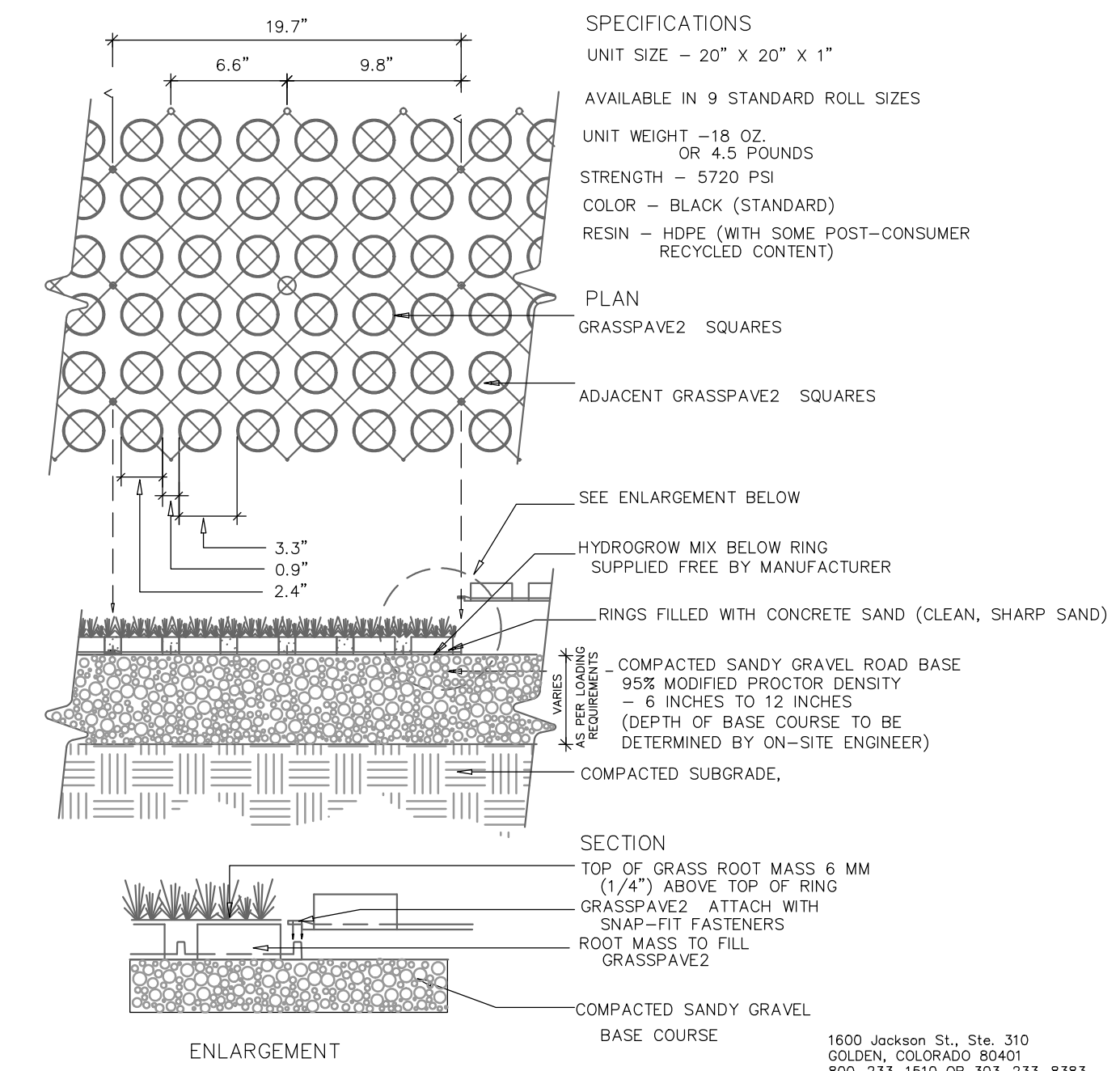
ROOF DRAIN/DOWNSPOUT CONNECTION DETAIL

N.T.S.



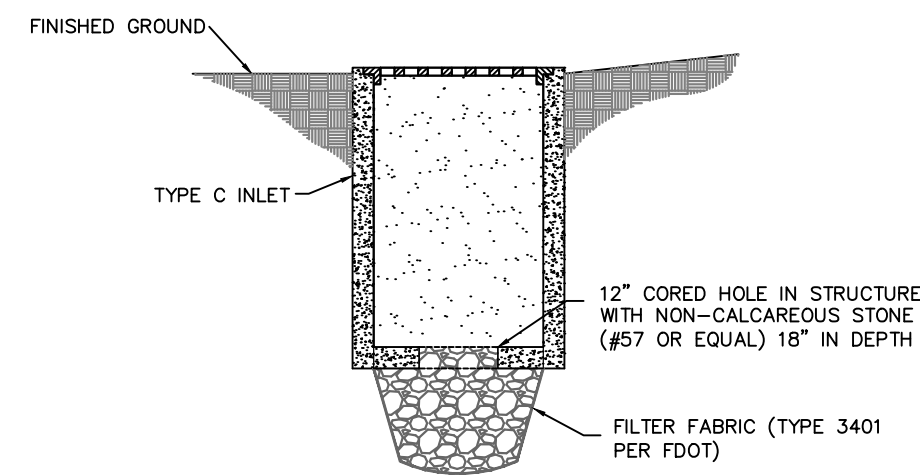
GUTTERS, DOWNSPOUTS AND COLLECTION SYSTEM DETAIL

NOTE: A ROOF DRAIN COLLECTION SYSTEM IS REQUIRED ON ALL COMMERCIAL FACILITIES



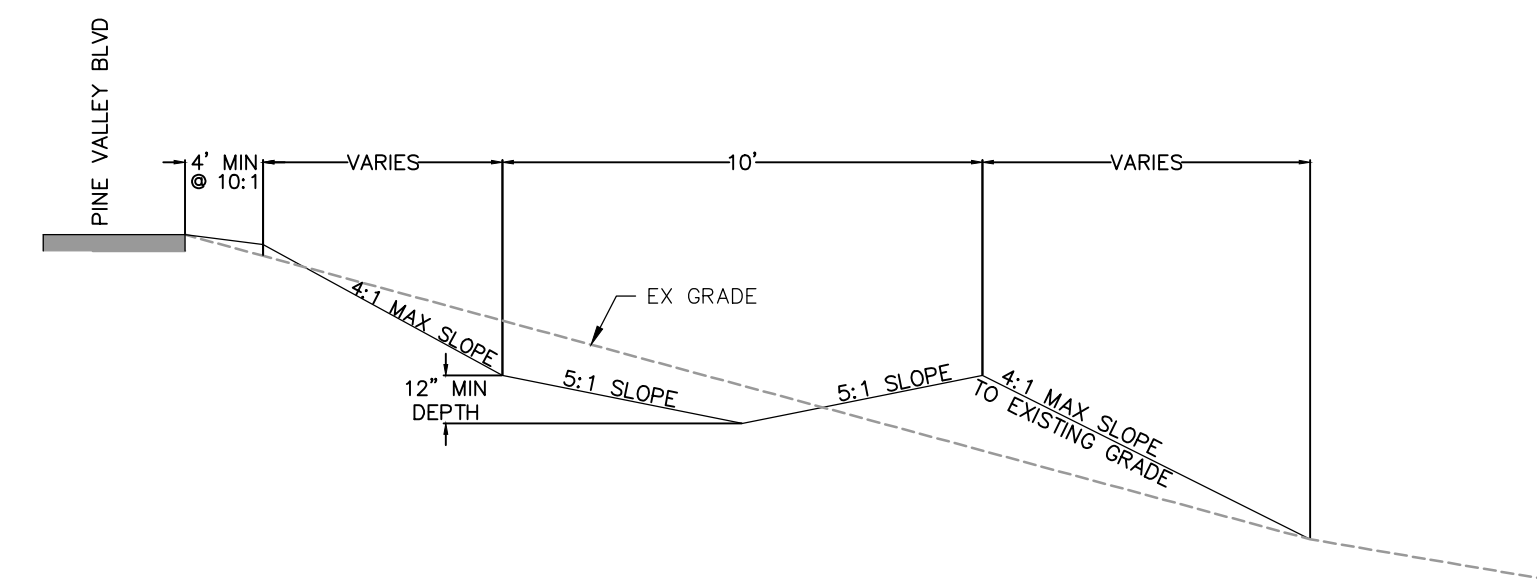
GRASSPAVE 2 DETAIL

N.T.S.



TYPE C INLET WITH CORED BOTTOM

N.T.S.

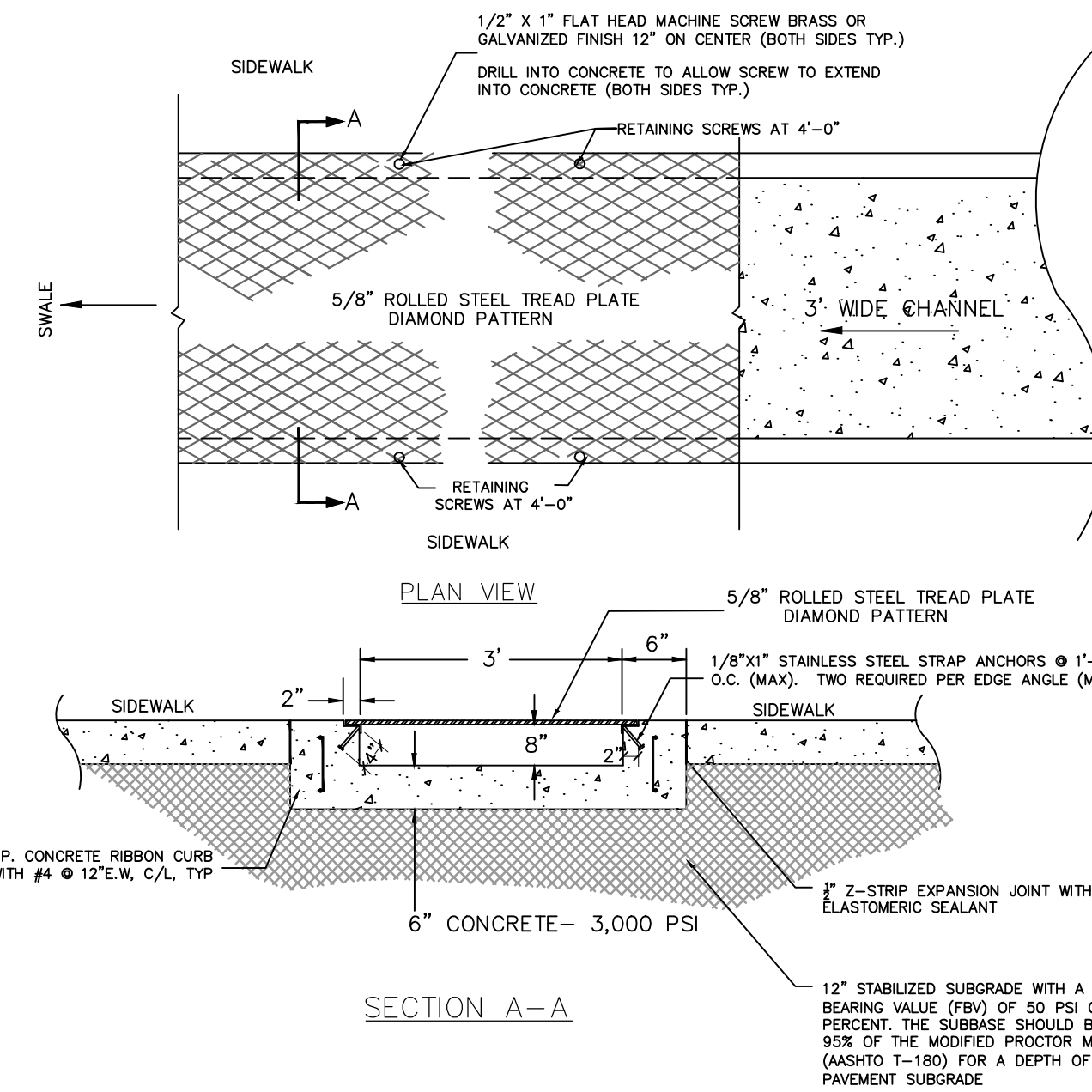


8' - 10' SWALE SECTION

N.T.S.

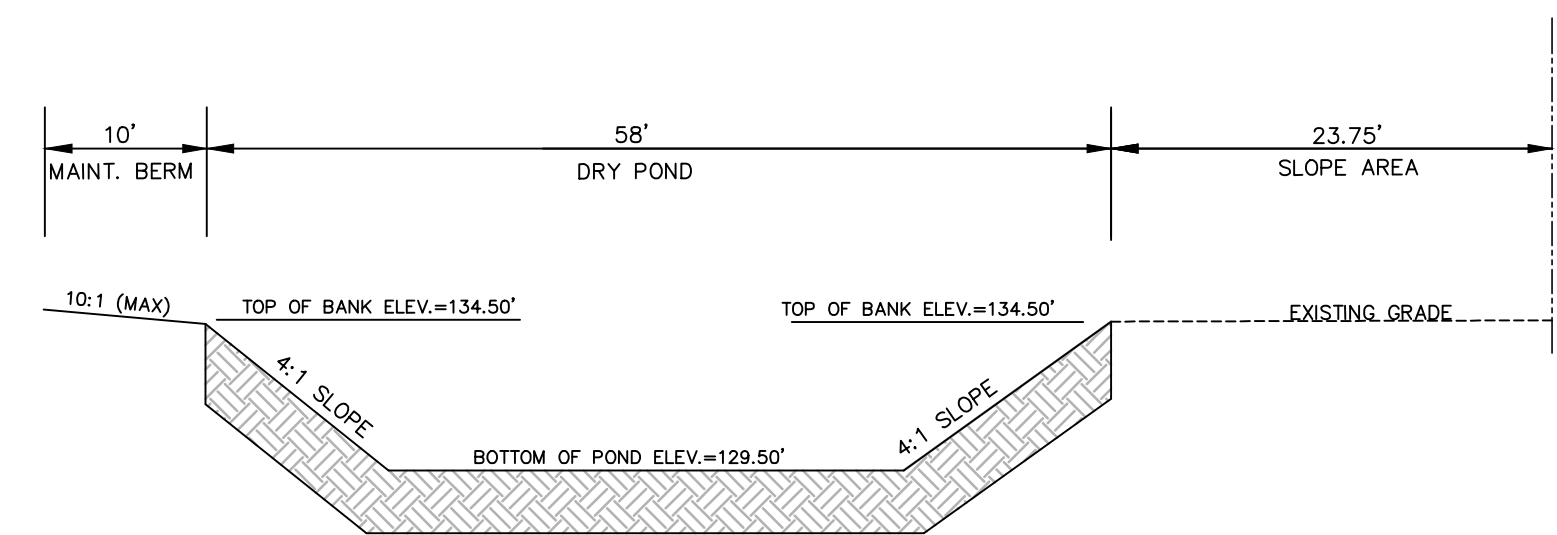
NOTES

1. ARGENTINA BAHIA SOD SHALL BE USED IN SWALE AND DISTURBED AREAS. NON-MUCK GROWN SOD SHALL BE INSTALLED



DRAINAGE UNDER SIDEWALK

N.T.S.



DRY POND SECTION A-A

N.T.S.

NOTES

1. ARGENTINA BAHIA SOD SHALL BE USED ON POND SLIDE SLOPES, BERM, AND BOTTOM. NON-MUCK GROWN SOD SHALL BE INSTALLED

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CONSTRUCTION  
DETAILS

EASTSIDE  
VETERINARY HOSPITAL

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CERTIFICATE OF AUTHORIZATION: 29279

SCALE "N.T.S."

DATE  
11/15/17

SHEET  
C-9

CHRISTOPHER M. GERMANA, P.E.  
FLORIDA PROFESSIONAL ENGINEER # 61682  
FIRM CERTIFICATE OF AUTHORIZATION # 29279

DATE

12-04-17

REVISIONS

No. 1. REVISED PER SURVMD COMMENTS

PROJECT # GE0162017

LAKE COUNTY, FLORIDA