

PROJECT CONTACTS				
CURRENT OWNER OLD TOWN INVESTMENTS, L.L.C. 2101 W. CLINTON AVE. W. SUITE 201 HUNTSVILLE, ALABAMA 35805	DEVELOPER PANDA EXPRESS, INC. 1683 WALNUT GROVE AVE. ROSEMEAD, CALIFORNIA 91770 PHONE: (626) 799-9898 FAX: (626) 372-8288	CIVIL ENGINEER CPH, INC. NICOLE P. LEBRON, P.E. 5601 MARINERS STREET TAMPA, FLORIDA 33609 PHONE: (813) 288-0233 nlebron@cphcorp.com	ARCHITECT CPH, INC. JOHN A. BAER A.I.A. 500 WEST FULTON STREET SANFORD, FLORIDA 32771 PHONE: (407) 322-6841 jbaer@cphcorp.com	LAND SURVEYOR MULLINS, LLC JEFF MULLINS, PE 2101 W. CLINTON AVENUE, SUITE 503 HUNTSVILLE, ALABAMA 35805 PHONE: (256) 535-1200 jeff@mullinsllc.net
MEP CPH, INC. JEFFREY A. DEAL, P.E. 500 W. FULTON STREET SANFORD, FLORIDA 32771 PHONE: (407) 322-6841 jdeal@cphcorp.com	SITE LIGHTING VILLA LIGHTING SUPPLY 2929 CHOUTEAU AVENUE ST. LOUIS, MISSOURI 63103 ATTN: MR. RYAN ZINSELMIEIER PHONE: (314) 633-0423 ryan.zinselmeier@villalighting.com	MUNICIPAL SEWER AGENCY MADISON UTILITIES 101 RAY SANDERSON DRIVE MADISON, ALABAMA 35758 PHONE: (256) 772-0253 RLee@masonutilities.org	MUNICIPAL WATER AGENCY MADISON UTILITIES 101 RAY SANDERSON DRIVE MADISON, ALABAMA 35758 ATTN: MR. RYAN ZINSELMIEIER PHONE: (256) 772-0253 RLee@masonutilities.org	ELECTRIC HUNTSVILLE UTILITIES 112 SPRAGINS STREET NW HUNTSVILLE, ALABAMA 35801 PHONE: (256) 535-1200 custserv@hawaii.org
GAS NORTH ALABAMA GAS 108 CHURCH STREET P.O. BOX 1428 MADISON, ALABAMA 35758 PHONE: (256) 772-0227 dmccarley@nagd.com	TELEPHONE COMPANY WOW LEAH FERGUSON 2401 10TH STREET SW HUNTSVILLE, ALABAMA PHONE: (888) 969-4249 leah.ferguson@wowinc.com	LANDSCAPE ARCHITECT CPH, INC. JIM WINTER, PLA 500 W. FULTON STREET SANFORD, FL 32771 PHONE: (407) 322-6841 jwinter@cphcorp.com	SIGNAGE ATLAS SIGN INDUSTRIES 1077 W. BLUE HERON BOULEVARD RIVERIA BEACH, FLORIDA 33404 ATTN: KAREN VANHOY PHONE: (561) 863-6659 x3302 karen.v@atlasbtw.com	FIRE MADISON FIRE & RESCUE SCOTT ADAMS 101 MILL ROAD MADISON, ALABAMA 35758 PHONE: (256) 772-5644 scott.adams@masonal.gov
GEOTECHNICAL TERRACON CONSULTANTS, INC. BRENDAN S. O'BRIEN, P.E. 1675 LEE ROAD WINTER PARK, FL 32789 PHONE: (407) 740-6110 TERRACON PROJECT NO. H1205226	ENVIRONMENTAL ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (ADEM) 2715 SANDLIN ROAD SW DECATUR, ALABAMA 35603 PHONE: (256) 353-1713 adem.alabama.gov			

FIRE FLOW CALCULATIONS

SBC TYPE: VB (UNPROTECTED) BASED ON NFPA SECTION 291:
DESCRIPTION: WOOD FRAME (UNPROTECTED)
USE: PANDA EXPRESS RESTAURANT, COMBUSTIBLE
UNDIVIDED AREA: 2,391 S.F.
FIRE FLOW NEEDED: 1,500 G.P.M. (FROM N.F.P.A TABLE 18.4.5.1.2)
FIRE FLOW AT 20 PSI: 3,027 G.P.M.

NON-SPRINKLERED BUILDING
OCCUPANCY LOAD = 83

CERTIFICATE OF APPROVAL BY DIRECTOR OF PLANNING & ECONOMIC DEVELOPMENT
THE UNDERSIGNED, AS DIRECTOR OF PLANNING & ECONOMIC DEVELOPMENT FOR THE CITY OF MADISON HEREBY CERTIFIES THAT THE PROPERTY AND SITE PLAN HAS BEEN INSPECTED, REVIEWED, AND FOUND TO BE COMPLIANT WITH ZONING ORDINANCE AND SUBDIVISION REGULATIONS. THIS THE _____ DAY OF _____, 20____.

DIRECTOR OF PLANNING DEPARTMENT
CITY OF MADISON, ALABAMA

MADISON FIRE DEPARTMENT
THE UNDERSIGNED, AS A DULY AUTHORIZED REPRESENTATIVE OF THE MADISON FIRE DEPARTMENT, CITY OF MADISON, ALABAMA CERTIFIES THE WITHIN SITE PLAN HAS BEEN REVIEWED AND IS APPROVED. THIS THE _____ DAY OF _____, 20____.

MADISON FIRE DEPARTMENT
CITY OF MADISON, ALABAMA

MADISON ENGINEERING DEPARTMENT
THE UNDERSIGNED, AS CITY ENGINEER OF THE CITY OF MADISON, ALABAMA CERTIFIES THE WITHIN SITE PLAN HAS BEEN REVIEWED AND IS APPROVED. THIS THE _____ DAY OF _____, 20____.

MADISON ENGINEERING DEPARTMENT
CITY OF MADISON, ALABAMA

MADISON UTILITIES
THE UNDERSIGNED, AS DULY AUTHORIZED REPRESENTATIVE OF MADISON UTILITIES CERTIFIES THE WITHIN SITE PLAN HAS REVIEWED AND IS APPROVED. THIS THE _____ DAY OF _____, 20____.

MADISON UTILITIES
MADISON, ALABAMA



PANDA EXPRESS STANDARD NOTES

- THE GEOTECHNICAL INVESTIGATION PREPARED BY TERRACON CONSULTANTS, INC. DATED: MAY 27, 2021 AND ANY SUBSEQUENT ADDENDUMS IS CONSIDERED PART OF THE CONTRACT DOCUMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE REPORT'S RECOMMENDATIONS AND FINDINGS WITH THE OWNER, ENGINEER AND ARCHITECT PRIOR TO CONSTRUCTION. IMPLEMENTATION OF THE REPORT'S RECOMMENDATIONS MAY REQUIRE THE CONTRACTOR TO PERFORM ADDITIONAL WORK NOT SHOWN ON THE CIVIL PLANS INCLUDING BUT NOT LIMITED TO EXCAVATION, REMEDIATION, DEWATERING, COMPACTION ETC.
- CONTRACTOR SHALL COORDINATE AND VERIFY LOCATION OF ALL SIGNAGE WITH OWNER PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL COORDINATE AND ADJUST LOCATION OF LOOP DETECTORS TO AVOID UTILITY CONFLICTS PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL ENSURE 100% COVERAGE OF ALL LANDSCAPED AREAS WITHIN LIMITS OF WORK, INCLUDING POTENTIAL OFFSITE AREAS. COVERAGE SHALL INCLUDE BOTH LANDSCAPING AND IRRIGATION.

24 HOUR CONTACT:
PANDA PM

JOE CELENTO
(912) 272-4811



NOTICE

THE SIZE OF THESE PLANS MAY HAVE BEEN SLIGHTLY ALTERED BY REPRODUCTION PROCESSES, THIS MUST BE CONSIDERED WHEN SCALING ANY REPRODUCED PLANS FOR THE PURPOSE OF COLLECTING DATA.

CRITERIA CIVIL PLANS:



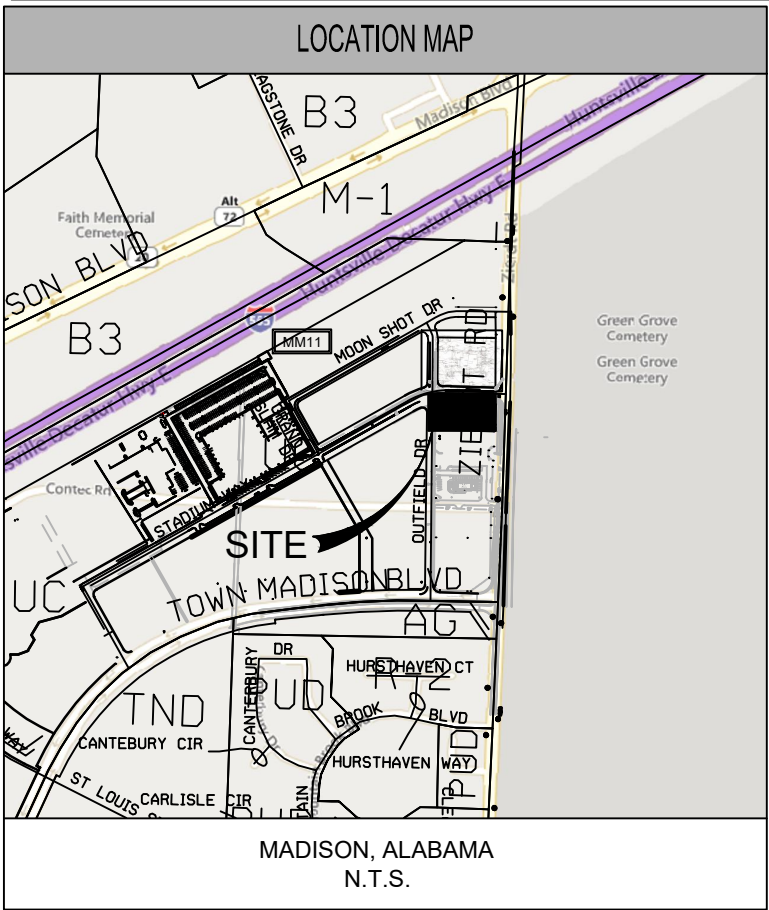
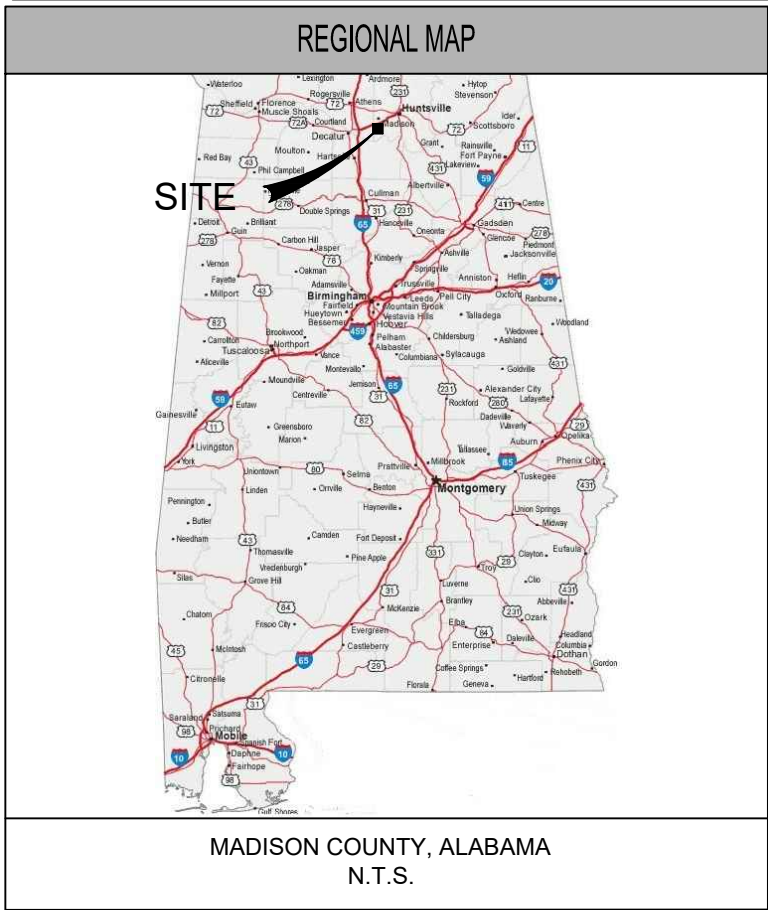
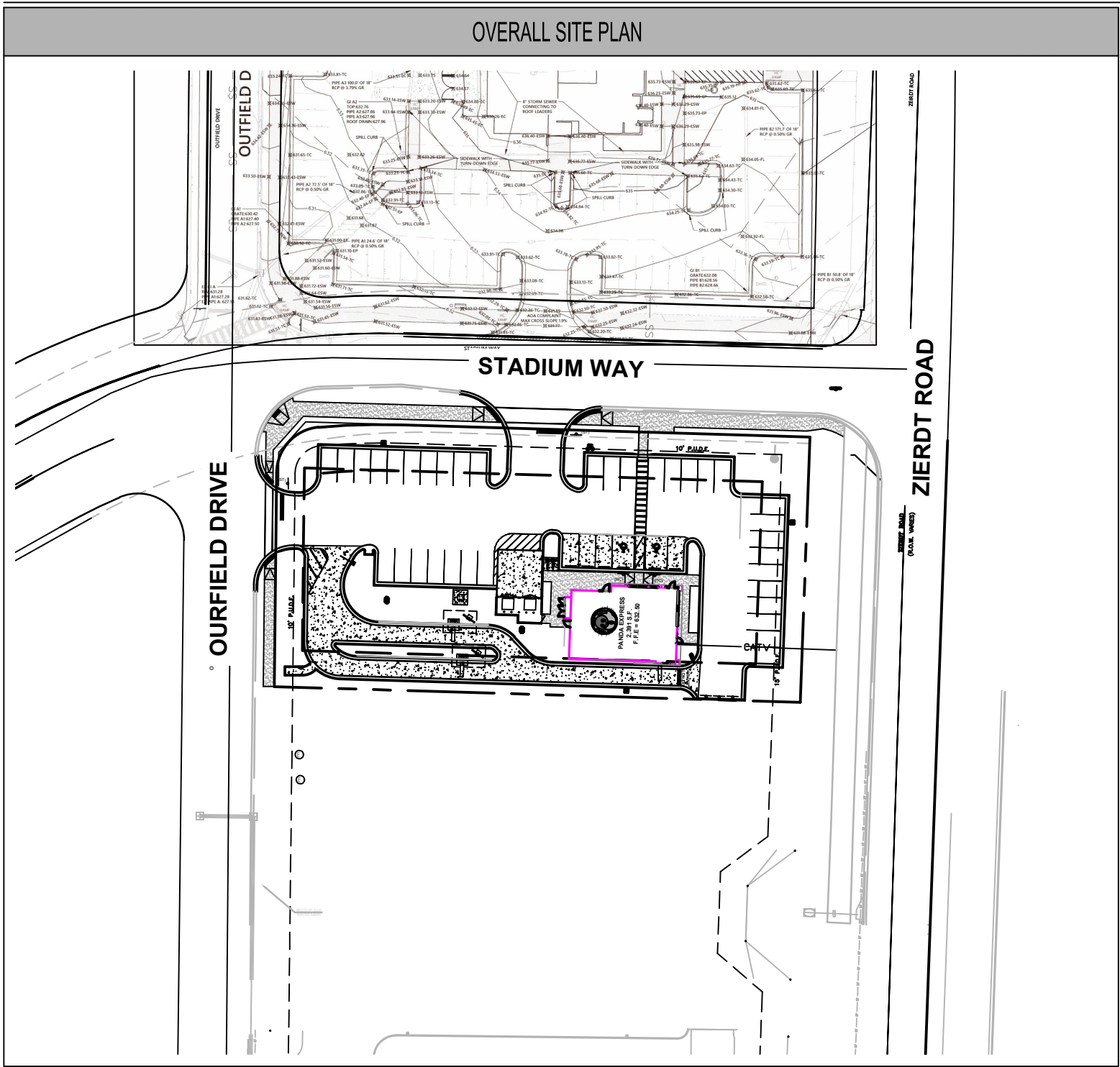
101 STADIUM WAY MADISON COUNTY, MADISON ALABAMA SECTION 14, TOWNSHIP 4 SOUTH, RANGE 2 WEST

PREPARED BY:



PREPARED FOR:

PANDA EXPRESS, INC.
1683 WALNUT GROVE AVE.
ROSEMEAD, CALIFORNIA 91770
PHONE: 626.799.9898
FAX: 626.372.8288



SHEET INDEX				
SHEET NUMBER	SHEET TITLE	ISSUE 01 - CITY SITE PLAN 07/19/2021	ISSUE 02 - CITY SITE PLAN 08/11/2021	
C01.0	COVER	●	●	
C01.1	GENERAL NOTES	●	●	
C01.2	GENERAL NOTES LEGEND & SYMBOLS	●	●	
1	ALTA SURVEY	●	●	
C03.0	SITE PLAN	●	●	
C03.1	HARDSCAPE DETAILS I	●	●	
C03.2	HARDSCAPE DETAILS II	●	●	
C03.3	HARDSCAPE DETAILS III	●	●	
C04.0	UTILITY PLAN	●	●	
C04.1	UTILITY DETAILS	●	●	
C05.0	GRADING & DRAINAGE PLAN	●	●	
C06.0	CBMPP PLAN	●	●	
C06.1	CBMPP NOTES	●	●	
C06.2	CBMPP DETAILS	●	●	
1 OF 1	PHOTOMETRIC PLAN	●	●	
L01.1	LANDSCAPING PLAN	●	●	
L05.0	LANDSCAPING NOTES & DETAILS	●	●	



PANDA EXPRESS, INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

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REVISIONS:

△ PER CITY COMMENTS	8/23/2021
△ OWNER REVISION	01/14/2022

ISSUE DATE:

7/19/2021 PERMIT SET
11/08/2021 BID SET
01/14/2022 BID SET REISSUE

DRAWN BY: K. Patterson

PANDA PROJECT #: D8433 STORE 3555

CIVIL PROJECT #: P7363



Jason L. Toole, State of Alabama Professional Engineer, License No. 34197 This item has been digitally signed and sealed by Jason L. Toole, P.E. on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

JASON L. TOOLE, P.E.
AL. P.E. No. 34197

PANDA EXPRESS

TRUE WARM & WELCOME 2300
101 STADIUM WAY
MADISON, ALABAMA 35758

COVER

C01.0

GENERAL PROVISIONS

1. THE CONTRACTOR SHALL OBTAIN FROM THE OWNER COPIES OF ALL AVAILABLE REGULATORY AGENCY PERMITS AND LOCAL AGENCY PERMITS.
2. CONTRACTOR, AS PART OF THE BASE BID, SHALL FIELD LOCATE ALL UNDERGROUND UTILITIES WITHIN THE PROJECT AREA WITHIN THE 30 DAYS OF PROJECT AWARD. CONTRACTOR SHALL REVIEW THE PLANS AND SHALL NOTE ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.
3. CONTRACTORS, AS PART OF THE BASE BID, SHALL PROVIDE ALL COORDINATION WITH UTILITY PROVIDERS TO PROVIDE FOR THE MATERIALS AND WORK NEEDED TO PROVIDE SERVICES TO THE PROJECT.
4. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE FOR ALL DEMOLITION OF ABOVE GROUND AND UNDERGROUND IMPROVEMENTS IN ORDER TO CONSTRUCT THE PROPOSED IMPROVEMENTS NOTED ON THE PLANS. UNLESS APPROVED IN WRITING FROM THE OWNER, ALL MATERIALS SHALL BE REMOVED FROM THE SITE AS PART OF THE BASE BID.
5. ALL DETAILS AND REFERENCES TO ALDOT REFER TO THE LATEST EDITION OF THE ALDOT DESIGN STANDARDS.
6. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ACTUAL LOCATION OF ALL UTILITY ENTITIES TO INCLUDE SANITARY SEWER LATERALS, DOMESTIC AND FIRE PROTECTION WATER SERVICE, ELECTRICAL, TELEPHONE AND GAS SERVICE. CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES, IN SUCH A MANNER AS TO AVOID CONFLICT AND ASSURE PROPER DEPTHS ARE ACHIEVED AS WELL AS COORDINATING WITH UTILITY REQUIREMENTS AS TO LOCATION AND SCHEDULING FOR TIE-INS/ CONNECTIONS PRIOR TO CONNECTING TO EXISTING UTILITIES.
7. CONTRACTOR AND HIS SURVEYOR SHALL NOTE THE PROJECT BENCHMARK INFORMATION PROVIDED IN THE PLANS AND VERIFY PRIOR TO CONSTRUCTION.
8. ALL CONSTRUCTION PROJECTS 1 OR MORE ACRES IN SIZE THAT DISCHARGE TO OFFSITE AREAS ARE REQUIRED TO COMPLY WITH THE REQUIREMENTS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT FOR STORMWATER DISCHARGE FROM SMALL AND LARGE CONSTRUCTION ACTIVITIES. IN ORDER TO MEET NPDES REQUIREMENTS, THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING, INSPECTING, MAINTAINING, AND REPORTING ON ALL ELEMENTS OF THE SWPPP, COMPLETING AND SUBMITTING THE REQUIRED NOTICE OF INTENT (NOI) AND NOTICE OF TERMINATION (NOT) FORMS AS THE OPERATOR, AND PAYING ALL ASSOCIATED FEES. FOR PROJECTS LESS THAN 1 ACRE IN SIZE THAT ARE NOT REQUIRED TO COMPLY WITH THE NPDES GENERAL PERMIT, THE CONTRACTOR IS STILL RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO AND DURING CONSTRUCTION IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.
9. UNLESS OTHERWISE NOTED ON THE PLANS, THE CONTRACTOR SHALL USE THE GEOMETRY PROVIDED ON THE CONSTRUCTION PLANS. 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.
10. BASE SURVEY INFORMATION INCLUDING BUT NOT LIMITED TO ELEVATIONS, EASEMENTS, RIGHTS OF WAY, AND OTHER TOPOGRAPHIC INFORMATION HAS BEEN PREPARED BY OTHER PROFESSIONALS. CPH, INC. ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THIS INFORMATION.
11. THIS SET OF PLANS MAY CONTAIN DRAWINGS PREPARED BY OTHER PROFESSIONALS, WHICH CONTAIN THE NAME, ADDRESS, AND LOGO OF THE PROFESSIONAL. CPH, INC. IS NOT RESPONSIBLE FOR DRAWINGS PREPARED BY OTHER PROFESSIONALS.
12. THE CONTRACTOR SHALL SUBMIT ONE ELECTRONIC COPY OF SHOP DRAWINGS TO THE ENGINEER TO KEEP FOR HIS RECORDS. THE ENGINEER WILL NOT PROVIDE FOR APPROVAL OF SHOP DRAWINGS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL MATERIALS FOR ACCURACY PRIOR TO ORDERING THE MATERIALS. ANY DISCREPANCIES IDENTIFIED BY THE CONTRACTOR SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
13. PROTECT BENCHMARKS, PROPERTY CORNERS, AND OTHER SURVEY MONUMENTS FROM DAMAGE OR DISPLACEMENT. IF MARKER NEEDS TO BE REMOVED IT SHALL BE REFERENCED BY LICENSED LAND SURVEYOR AND REPLACED, AS NECESSARY, BY SAME.
14. THE CONTRACTOR IS RESPONSIBLE FOR ALL QUALITY CONTROL TESTING. AS A MINIMUM, TESTING SHALL INCLUDE A) PIPING AND STRUCTURAL EXCAVATION, BEDDING AND BACKFILL MATERIALS AND DENSITY TESTS; B) DETERMINATION OF COMPACTIVE EFFORTS FOR COMPACTION WITH THE DENSITY REQUIREMENTS; C) PORTLAND CEMENT CONCRETE AND ASPHALT PAVING QUALITY CONTROL TESTING INCLUDING DESIGN MIX REVIEW, MATERIALS, FIELD SLUMP AND AIR CONTENT, AND FIELD AND LAB CURED STRENGTH SAMPLES AND TESTING.
15. IN ADDITION TO QUALITY CONTROL TESTING, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REQUIRED TESTING OR APPROVALS FOR ANY WORK (OR ANY PART THEREOF) IF LAWS OR REGULATIONS OF ANY PUBLIC BODY HAVING JURISDICTION SPECIFICALLY REQUIRE TESTING, INSPECTIONS OR APPROVAL. THE CONTRACTOR SHALL PAY ALL COSTS IN CONNECTION THEREWITH AND SHALL FURNISH THE OWNER AND ENGINEER THE REQUIRED CERTIFICATES OF INSPECTION, TESTING OR APPROVAL.
16. ANY DESIGN OR TESTING LABORATORY UTILIZED BY THE CONTRACTOR SHALL BE AN INDEPENDENT LABORATORY ACCEPTABLE TO THE OWNER AND THE ENGINEER, APPROVED IN WRITING, AND COMPLYING WITH THE LATEST EDITION OF THE "RECOMMENDED REQUIREMENTS FOR INDEPENDENT LABORATORY QUALIFICATION", PUBLISHED BY THE AMERICAN COUNCIL OF INDEPENDENT LABORATORIES.
17. TESTING RESULTS SHALL BE PROVIDED TO THE OWNER/OPERATOR AND THE ENGINEER. ALL TEST RESULTS SHALL BE PROVIDED (PASSING AND FAILING) ON A REGULAR AND IMMEDIATE BASIS.
18. THE ENTIRE PROJECT SITE SHALL BE THOROUGHLY CLEANED AT THE COMPLETION OF THE WORK. CLEAN ALL INSTALLED PIPELINES, STRUCTURES, SIDEWALKS, PAVED AREAS, ACCUMULATED SILT IN PONDS, PLUS ALL ADJACENT AREAS AFFECTED BY CONSTRUCTION, AS DIRECTED BY THE OWNER OR JURISDICTIONAL AGENCY. EQUIPMENT TO CLEAN THESE SURFACES SHALL BE SUBJECT TO APPROVAL BY THE OWNER.
19. ALL DISTURBED AREAS WITHIN RIGHT OF WAYS SHALL BE SODDED.
20. CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST STANDARDS OF OSHA DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, SHIELDING AND PROTECTIVE PROTECTION. THIS TO INCLUDE BUT NOT BE LIMITED TO ACCESS AND EGRESS FROM ALL EXCAVATION AND TRENCHING. CONTRACTOR IS RESPONSIBLE TO COMPLY WITH PERFORMANCE CRITERIA FOR OSHA.
21. THE CONTRACTOR SHALL RECOGNIZE AND ABIDE BY ALL OSHA EXCAVATION SAFETY STANDARDS. ANY MATERIAL, CONSTRUCTION METHODS, OR MATERIAL COST TO COMPLY WITH THESE LAWS SHALL BE INCIDENTAL TO THE CONTRACT.
22. CONTRACTOR MUST STOP OPERATION AND NOTIFY THE OWNER FOR PROPER DIRECTION IF ANY ENVIRONMENTAL OR HEALTH RELATED CONTAMINATE IS ENCOUNTERED DURING EXCAVATION.
23. THE GENERAL CONTRACTOR TO COORDINATE WITH LOCAL MAIL CARRIER TO INQUIRE IF MAIL CAN BE DELIVERED TO STORE. IF NOT GENERAL CONTRACTOR TO COORDINATE LOCATION WITH LOCAL POST OFFICE AND PROVIDE AND INSTALL MAILBOX.

UTILITY GENERAL NOTES

1. ALL WATER AND SANITARY SEWER SHALL BE INSTALLED PER THE CITY OF MADISON WATER WORK AND SANITARY SEWER BOARD'S STANDARDS AND SPECIFICATIONS.
2. THE UTILITY DATA SHOWN ON THESE PLANS WAS LOCATED BY THE RESPECTIVE UTILITY, OR IS BASED ON UTILITY DRAWINGS, MAPS, OR FIELD RECONNAISSANCE.
3. THE LOCATION, MATERIAL TYPE, AND SIZE OF ALL EXISTING UTILITIES SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR 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 OF THESE UTILITIES WITH THE OWNER OF THE UTILITY. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN CROSSING AN UNDERGROUND UTILITY, WHETHER SHOWN ON THE PLANS OR LOCATED BY THE UTILITY COMPANY. ANY UTILITIES, WHETHER SHOWN ON THESE PLANS OR NOT, THAT INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE CLOSELY COORDINATED WITH THE ENGINEER AND THE RESPECTIVE UTILITY COMPANY FOR RELOCATION OR PROPER INSTRUCTION.
4. A SINGLE POINT UTILITY IDENTIFICATION SERVICE HAS BEEN SET UP FOR EXISTING UTILITIES. THE CONTRACTOR IS TO CONTACT THE ALABAMA STATE ONE CALL CENTER BY DIALING "811" AT LEAST TWO (2) AND NO MORE THAN FIVE (5) WORKING DAYS PRIOR TO THE SPECIFIC CONSTRUCTION ACTIVITY FOR FIELD LOCATION. NOTE THAT NOT ALL UTILITIES PARTICIPATE IN THIS PROGRAM. THE CONTRACTOR SHOULD CONTACT ALL NON-PARTICIPATING UTILITIES SEPARATELY FOR FIELD LOCATION OF THEIR FACILITIES AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.
5. THE UTILITY PROVIDERS NOTED ON THE COVER SHEET HAVE PREVIOUSLY INDICATED THAT THEY MAY HAVE FACILITIES IN THE VICINITY OF THE CONSTRUCTION AREA.
6. THE CONTRACTOR SHALL KEEP LOCATE TICKETS UP TO DATE AT ALL TIMES.
7. THE CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION WITH EACH UTILITY AND ALL COSTS ASSOCIATED WITH THE PROTECTION OF EXISTING FACILITIES DURING CONSTRUCTION. THE CONTRACTOR SHALL ALSO COORDINATE NECESSARY RELOCATIONS OR OTHER CONSTRUCTION RELATED MATTERS WITH EACH UTILITY.
8. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN IN SERVICE ALL EXISTING PIPING ENCOUNTERED DURING CONSTRUCTION UNLESS OTHERWISE INDICATED IN THE DRAWINGS. ANY PIPING WHICH CAN BE REMOVED DURING CONSTRUCTION WITHOUT UNDUE INTERRUPTION OF SERVICE MAY BE REMOVED AND REPLACED BY THE CONTRACTOR WITH THE PERMISSION OF THE OWNER AND THE ENGINEER.
9. TYPICAL DETAILS AND PROPOSED CONSTRUCTION AS SHOWN ILLUSTRATE THE ENGINEER'S INTENT AND ARE NOT PRESENTED AS A SOLUTION TO ALL CONSTRUCTION PROBLEMS ENCOUNTERED IN THE FIELD. THE CONTRACTOR MAY ALTER THE PROPOSED CONSTRUCTION TO SUIT FIELD CONDITIONS, PROVIDED IT COMPLIES WITH THE PROJECT SPECIFICATIONS AND APPROVAL IS RECEIVED FROM THE ENGINEER.
10. FOR EACH RESPECTIVE PIPELINE CONSTRUCTION REQUIRED, THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION, DEPTH, SIZE, MATERIAL TYPE, AND ALIGNMENT OF ALL EXISTING PIPES, CABLES, ETC. TO BE CROSSED OR CONNECTED TO. IF THE CONTRACTOR DEEMS NECESSARY (A) A CHANGE IN ALIGNMENT OR DEPTH, OR THE NEED FOR ADDITIONAL FITTINGS, BENDS, OR COUPLINGS, WHICH REPRESENT A DEPARTURE FROM THE CONTRACT DRAWING, OR (B) A NEED FOR RELOCATION OF EXISTING UTILITIES, THEN DETAILS OF SUCH DEPARTURES, RELOCATIONS, OR ADDITIONAL FITTINGS, INCLUDING CHANGES IN RELATED PORTIONS OF THE PROJECT AND THE REASONS THEREFORE, SHALL BE SUBMITTED WITH SHOP DRAWINGS. APPROVED DEPARTURES FOR THE CONTRACTOR'S CONVENIENCE SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.
11. THE CONTRACTOR SHALL PROVIDE AT HIS OWN EXPENSE ALL NECESSARY TEST PUMPING EQUIPMENT, WATER, WATER METERS, PRESSURE GAUGES, AND OTHER EQUIPMENT, MATERIAL AND FACILITIES REQUIRED FOR ALL HYDROSTATIC, LEAKAGE, AND PRESSURE TESTING. THE CONTRACTOR SHALL CONTACT THE ENGINEER AND THE OWNER IN WRITTEN FORM, FORTY- EIGHT (48) HOURS IN ADVANCE OF PROPOSED TESTING. THE CONTRACTOR SHALL PERFORM SATISFACTORY PRETESTING PRIOR TO NOTIFICATION.

AS-BUILT DRAWING REQUIREMENTS

1. AS-BUILT DRAWINGS SHALL BE PROVIDED BY THE CONTRACTOR TO THE ENGINEER AT LEAST THREE WEEKS PRIOR TO FINAL INSPECTION. ALL AS-BUILT DATA SHALL BE PROVIDED BY AN ALABAMA LICENSED SURVEYOR, SIGNED, SEALED AND DATED BY THE RESPONSIBLE PARTY. THE CONTRACTOR SHALL BE RESPONSIBLE TO IDENTIFY ALL AS-BUILT SURVEY REQUIREMENTS BY THE GOVERNING AGENCIES, INCLUDING THE MADISON COUNTY AS-BUILT REQUIREMENTS CHECKLIST, PRIOR TO START OF CONSTRUCTION TO ENSURE THAT AS-BUILT INFORMATION IS PROVIDED FOR.
2. ALL RECORD DRAWINGS SHALL BE PREPARED BY THE CONTRACTOR IN ACAD FORMAT USING CONSTRUCTION PLAN SHEETS PROVIDED BY THE ENGINEER. AS-BUILT INFORMATION SHALL BE FIELD VERIFIED, MEASURED, ADDED TO THE ACAD FILES OF THE CONSTRUCTION PLAN SHEETS PROVIDED BY THE ENGINEER, AND CERTIFIED, SIGNED AND DATED BY THE CONTRACTOR'S LICENSED SURVEYOR WHO WILL BE RESPONSIBLE FOR THE ACCURACY OF ALL DIMENSIONS AND ELEVATIONS.
3. THE AS-BUILT INFORMATION IS TO INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:
 - A. HORIZONTAL LOCATIONS AND VERTICAL ELEVATIONS FOR ALL UTILITY AND STORM STRUCTURES INCLUDING BUT NOT LIMITED TO MANHOLES, INLETS AND CLEANOUTS, INCLUDING STRUCTURE TOP AND INVERT ELEVATIONS.
 - B. DISTANCE ALONG PIPELINES BETWEEN STRUCTURES.
 - C. STORMWATER POND TOP OF BERM AND POND BOTTOM ELEVATIONS AND HORIZONTAL DIMENSIONS MEASURED AT A MINIMUM OF TEN LOCATIONS PER POND, AT LOCATIONS DESIGNATED BY THE ENGINEER. TOP OF POND HORIZONTAL DIMENSIONS ARE ALSO TO BE TIED TO PROPERTY CORNERS, EASEMENTS, AND RIGHTS-OF-WAY.
 - D. STORMWATER CONTROL STRUCTURE DIMENSIONS AND ELEVATIONS, INCLUDING ALL WEIRS, SLOTS, ORIFICES, GRATES, AND SKIMMERS.
 - E. STORMWATER CONVEYANCE SYSTEMS INCLUDING DIMENSIONS, ELEVATIONS, CONTOURS, AND CROSS SECTIONS.
 - F. HORIZONTAL LOCATIONS AND VERTICAL ELEVATIONS OF ALL UTILITY VALVES, FITTINGS, CONNECTION POINTS, ETC.
 - G. VERTICAL ELEVATIONS OF ALL PIPELINES AT CROSSINGS OF POTABLE WATER MAINS (WHETHER THE WATER MAIN IS EXISTING OR NEW) IN ORDER TO DOCUMENT THAT THE MINIMUM REQUIRED VERTICAL SEPARATION HAS BEEN MET.
 - H. UTILITY PIPELINE TIED HORIZONTALLY TO EDGE OF PAVEMENT AND RIGHT-OF-WAY LINES, LOCATED EVERY 200-FT PLUS ALL CHANGES IN HORIZONTAL OFFSET.
 - I. PAVEMENT WIDTH AND ELEVATIONS AT THE CENTERLINE AND EDGE OF PAVEMENT EVERY 200 FEET PLUS AT ALL CHANGES IN LONGITUDINAL SLOPE, CROSS SLOPE, INLET LOCATIONS, AND AT ALL DRIVEWAY AND STREET INTERSECTIONS. FOR PARKING LOTS, RECORD CENTERLINE AND EDGE OF PAVEMENT ELEVATIONS ALONG ALL DRIVE AISLES AND ISLANDS.
 - J. ALL PARKING AREAS AND SIDEWALK RAMPS DESIGNATED FOR HANDICAP ACCESS SHALL CONTAIN HORIZONTAL AND VERTICAL MEASUREMENTS IN ORDER TO VERIFY REQUIRED WIDTHS AND SLOPES HAVE BEEN MET.
 - K. HORIZONTAL AND VERTICAL DATA FOR ANY CONSTRUCTION THAT DEVIATES FROM THE APPROVED ENGINEERING DRAWINGS.
 - L. WHERE THE PLANS CONTAIN SPECIFIC HORIZONTAL LOCATION DATA, SUCH AS STATION AND OFFSET, THE AS-BUILT DRAWINGS ARE TO REFLECT THE ACTUAL HORIZONTAL LOCATION.
 - M. WHERE THE PLANS CONTAIN SPECIFIC VERTICAL ELEVATION DATA, THE AS-BUILT DRAWINGS ARE TO REFLECT THE ACTUAL MEASURED VERTICAL ELEVATION.
 - N. ANY ADDITIONAL INFORMATION REQUIRED BY GOVERNING AGENCIES.
4. IN CASES WHERE THE OWNER DETERMINES PARTIAL CLEARANCES FROM PERMITTING AGENCIES ARE BENEFICIAL, TO THE OWNER FOR COMPLETED PORTIONS OF THE PROJECT, PROVIDE PRELIMINARY AS-BUILT DRAWINGS (ACAD FORMAT) TO THE ENGINEER FOR ITS USE IN PREPARING THE PARTIAL CLEARANCE APPLICATIONS FOR THE OWNER.
5. COMPLETE AS-BUILT DRAWINGS THAT ARE FOUND TO BE SATISFACTORY AS A RESULT OF THE ENGINEER'S REVIEW WILL BE USED AS THE BASIS FOR THE FINAL PROJECT RECORD DRAWINGS PREPARED BY THE ENGINEER USING THE CONTRACTOR PROVIDED AS-BUILT DRAWINGS PLUS ENGINEER ADDED INFORMATION.

SITE PREPARATION

1. UNLESS OTHERWISE DIRECTED BY THE OWNER OR ENGINEER, THE CONTRACTOR IS EXPECTED TO CONTAIN ALL CONSTRUCTION ACTIVITIES WITHIN THE PROPERTY, RIGHT-OF-WAY, AND EASEMENTS AS INDICATED ON THE DRAWINGS. AT NO TIME SHALL THE CONTRACTOR DISTURB SURROUNDING PROPERTIES OR TRAVEL ON SURROUNDING PROPERTIES WITHOUT WRITTEN CONSENT FROM THE PROPERTY OWNER. ANY REPAIR OR RECONSTRUCTION OF DAMAGED AREAS IN SURROUNDING PROPERTIES SHALL BE REPAIRED 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.
2. STAKE OUT THE CONSTRUCTION, ESTABLISH LINES AND LEVELS. TEMPORARY BENCH MARKS, BATTER BOARDS, CENTERLINES, BASELINES, AND REFERENCE POINTS FOR THE WORK, AND VERIFY ALL DIMENSIONS RELATING TO INTERCONNECTION WITH EXISTING UTILITIES. REPORT ANY INCONSISTENCIES IN THE PROPOSED GRADES, LINES AND LEVELS, DIMENSIONS AND LOCATIONS TO THE ENGINEER BEFORE COMMENCING WORK.
3. PROTECT ALL TREES AND SHRUBS LOCATED OUTSIDE THE RIGHT-OF-WAY, EASEMENTS, AND OWNER SECURED PROPERTY, PARTICULARLY THOSE TREES AND SHRUBS LOCATED ADJACENT TO WORK AREAS.
4. WITHIN THE RIGHT-OF-WAY, EASEMENTS, AND OWNER SECURED PROPERTY, THE INTENT IS TO ALLOW TREES AND SHRUBS TO REMAIN IN ACQULE NEW ROADWAY. TREES AND SHRUBS LOCATED WITHIN THE RIGHT-OF-WAY, EASEMENTS, AND OWNER SECURED PROPERTY, REMAIN WHERE LOCATED MORE THAN 15 FEET FROM THE BACK OF CURB, OR OUTSIDE THE LIMITS OF EXCAVATION OR FILL AREAS, WHICHEVER IS FURTHER. UTILITY PIPELINE CONSTRUCTION - TREES AND SHRUBS TO REMAIN OUTSIDE A 15 FOOT WIDE PATH, CENTERED ON THE PIPELINE.
5. TREES TO REMAIN IN THE CONSTRUCTION AREA SHALL BE BOXED, FENCED OR OTHERWISE PROTECTED IN ACCORDANCE WITH DETAILS ON THE DRAWINGS. DO NOT PERMIT HEAVY EQUIPMENT OR STOCKPILES WITHIN BRANCH SPREAD.
6. AREAS TO RECEIVE CLEARING AND GRUBBING SHALL INCLUDE ALL AREAS TO BE OCCUPIED BY THE PROPOSED IMPROVEMENTS, AREAS FOR FILL AND SITE GRADING, AND BORROW SITES. REMOVE TREES OUTSIDE OF THESE AREAS ONLY AS INDICATED ON THE DRAWINGS OR AS APPROVED IN WRITING BY THE ENGINEER.
7. CLEARING SHALL CONSIST OF REMOVING TREES AND BRUSH AND DISPOSAL OF OTHER MATERIALS THAT ENCRGOACH UPON OR OTHERWISE OBSTRUCT THE WORK.
8. EXERCISE EXTREME CARE DURING THE CLEARING AND GRUBBING OPERATIONS. DO NOT DAMAGE EXISTING STRUCTURES, PIPES OR UTILITIES.
9. GRUBBING SHALL CONSIST OF REMOVING AND DISPOSING OF STUMPS, ROOTS LARGER THAN 2" IN DIAMETER, AND MATTED ROOTS. REMOVE TO A DEPTH OF NOT LESS THAN 18" BELOW THE ORIGINAL SURFACE LEVEL OF THE GROUND.
10. ALL COMBUSTIBLE DEBRIS AND REFUSE FROM SITE PREPARATION OPERATIONS SHALL BE REMOVED TO LEGAL OFFSITE DISPOSAL AREAS.

DEWATERING

1. DESIGN AND PROVIDE A DEWATERING SYSTEM USING ACCEPTED AND PROFESSIONAL METHODS CONSISTENT WITH CURRENT INDUSTRY PRACTICE. PROVIDE A DEWATERING SYSTEM OF SUFFICIENT SIZE AND CAPACITY TO CONTROL GROUNDWATER IN A MANNER THAT PRESERVES STRENGTH OF FOUNDATION SOILS, DOES NOT CAUSE INSTABILITY OR RAVELING OF EXCAVATION SLOPES, AND DOES NOT RESULT IN DAMAGE TO EXISTING STRUCTURES. WHERE NECESSARY TO THESE PURPOSES, LOWER WATER LEVEL IN ADVANCE OF EXCAVATION, UTILIZING WELLS, WELLPOINTS, OR SIMILAR POSITIVE METHODS, MAINTAIN THE GROUNDWATER LEVEL TO A MINIMUM OF 2 FEET BELOW EXCAVATIONS. PROVIDE PIEZOMETERS IF DIRECTED BY THE ENGINEER TO DOCUMENT THE GROUNDWATER LEVEL IS BEING MAINTAINED.
2. CONTROL, BY ACCEPTABLE MEANS, ALL WATER REGARDLESS OF SOURCE AND BE FULLY RESPONSIBLE FOR DISPOSAL OF THE WATER. NO ADDITIONAL PAYMENT WILL BE MADE FOR ANY SUPPLEMENTAL MEASURES TO CONTROL SEEPAGE, GROUNDWATER, OR ARTESIAN HEAD.
3. DEWATERING DISCHARGE FROM THE SITE SHALL COMPLY WITH ALL NPDES GENERAL PERMIT REQUIREMENTS AND STATE WATER QUALITY STANDARDS. PROVIDE ALL TESTING AND PERMITTING REQUIRED AND COMPLY WITH ALL TREATMENT OR DISPOSAL METHODS REQUIRED TO MEET ALL LOCAL, STATE AND FEDERAL REQUIREMENTS.
4. OPEN PUMPING WITH PUMPS AND DITCHES SHALL BE ALLOWED, PROVIDED IT DOES NOT RESULT IN BOILS, LOSS OF FINES, SOFTENING OF THE GROUND, OR INSTABILITY OF SLOPES. PUMPS SHALL BE LOCATED OUTSIDE OF LOAD BEARING AREAS SO THE BEARING SURFACES WILL NOT BE DISTURBED. WATER CONTAINING SILT IN SUSPENSION SHALL NOT BE PUMPED INTO SEWER LINES OR ADJACENT STREAMS. DURING NORMAL PUMPING, AND UPON DEVELOPMENT OF WELL(S), LEVELS OF FINE SAND OR SILT IN THE DISCHARGE WATER SHALL NOT EXCEED 5 PPM.
5. IF Dewatering equipment needed exceeds any of the following: 1) 6" PUMP VOLUME; 2) 100,000 GPD TOTAL 24 HOUR (1 DAY) Dewatering, AND; 3) 1,000,000 GPD PUMP CAPACITY, THE CONTRACTOR SHALL BE REQUIRED TO PERMIT THE DEWATERING SYSTEM WITH THE WATER MANAGEMENT DISTRICT.
6. CONTINUOUSLY MAINTAIN EXCAVATIONS IN A DRY CONDITION WITH POSITIVE DEWATERING METHODS DURING PREPARATION OF SUBGRADE, INSTALLATION OF PIPE, AND CONSTRUCTION OF STRUCTURES UNTIL THE CRITICAL PERIOD OF CONSTRUCTION AND/OR BACKFILL IS COMPLETED TO PREVENT DAMAGE OF SUBGRADE SUPPORT, PIPING, STRUCTURE, SIDE SLOPES, OR ADJACENT FACILITIES FROM FLOTATION OR OTHER HYDROSTATIC PRESSURE IMBALANCE.
7. WHEN CONSTRUCTION IS COMPLETE, REMOVE ALL DEWATERING EQUIPMENT FROM THE SITE, INCLUDING WELLS AND RELATED TEMPORARY ELECTRICAL SERVICE.

GRADING

1. GRADING SHOWN ON THESE PLANS IS PROVIDED TO THE CONTRACTOR TO EXPRESS THE GENERAL GRADING INTENT OF THE PROJECT. THE CONTRACTOR SHALL BE EXPECTED TO GRADE THE ENTIRE SITE TO PROVIDE POSITIVE DRAINAGE IN ALL AREAS THROUGHOUT THE SITE. SMOOTH TRANSITIONS SHALL BE PROVIDED BETWEEN CONTOURS OR SPOT ELEVATIONS AS SHOWN ON THE PLANS TO ACCOMPLISH THE GRADING INTENT. ALL SLOPES SHALL BE STABILIZED IMMEDIATELY AFTER FINAL GRADING HAS BEEN COMPLETED. CONTRACTOR SHALL NOTIFY OWNER AND ENGINEER PRIOR TO DEMOBILIZATION OF GRADING EQUIPMENT TO DETERMINE THAT THE GRADING INTENT HAS BEEN ACHIEVED.
2. ALL PAVING SURFACES IN INTERSECTIONS AND ADJACENT SECTIONS SHALL BE GRADED TO DRAIN POSITIVELY AND TO PROVIDE A SMOOTHLY TRANSITIONED DRIVING SURFACE FOR VEHICLES WITH NO SURFACE BREAKS IN GRADE, AND NO UNUSUALLY STEEP OR REVERSE CROSS SLOPES. THE STANDARD CROWN MAY 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 INSTRUCTIONS TO ACCOMPLISH THE INTENT OF THE PLANS.
3. UNIFORMLY SMOOTH GRADE THE SITE. DEPRESSIONS FROM SETTLEMENT SHALL BE FILLED AND COMPACTED. TOPS OF EMBANKMENTS AND BREAKS IN GRADE SHALL BE ROUNDED. FINISHED SURFACES SHALL BE REASONABLY SMOOTH, COMPACTED, FREE FROM IRREGULAR SURFACE CHANGES AND COMPARABLE TO THE SMOOTHNESS OBTAINED BY GRADE-RADER OPERATIONS.
4. SLOPE GRADES TO DRAIN AWAY FROM STRUCTURES AT A MINIMUM OF 1/4-INCH PER FOOT FOR 10 FEET. FINISHED SURFACES ADJACENT TO PAVED AREAS AND WITHIN 10 FEET OF STRUCTURES SHALL BE WITHIN 1 INCH OF THE PROPOSED GRADE. ALL OTHER AREAS SHALL BE WITHIN 3 INCHES OF THE PROPOSED GRADE.
5. NEWLY GRADED AREAS SHALL BE PROTECTED FROM TRAFFIC AND EROSION. ALL SETTLEMENT OR WASHING AWAY THAT MAY OCCUR FROM ANY CAUSE PRIOR TO SEEDING OR ACCEPTANCE SHALL BE REPAIRED AND GRADES RE-ESTABLISHED TO THE REQUIRED ELEVATIONS AND SLOPES AT NO ADDITIONAL COST TO THE OWNER.

EXCAVATION, TRENCHING, AND FILL

1. THE CONTRACTOR SHALL RECOGNIZE AND ABIDE BY ALL OSHA EXCAVATION SAFETY STANDARDS. ANY MATERIAL, CONSTRUCTION METHODS, OR MATERIAL COST TO COMPLY WITH THESE LAWS SHALL BE INCIDENTAL TO THE CONTRACT.
2. ROUGH EXCAVATE AND GRADE ANY PROPOSED STORMWATER PONDS AT THE START OF SITE GRADING ACTIVITIES. DIRECT SITE RUNOFF TO THE PONDS TO MINIMIZE RUNOFF TO OFFSITE AREAS.
3. POND CONSTRUCTION SHALL RESULT IN THE FINISHED POND HAVING SIDE SLOPES AND DIMENSIONS THAT ARE IN ACCORDANCE WITH THE CONSTRUCTION DRAWINGS. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO ENSURE THAT THESE REQUIREMENTS HAVE BEEN MET. IF THE CONSTRUCTED SIDE SLOPES ARE STEEPER THAN THE REQUIRED SIDE SLOPES, OR THE POND VOLUME IS NOT WITHIN THREE (3) PERCENT OF THE DESIGN VOLUME, THE CONTRACTOR MAY BE REQUIRED TO MAKE CORRECTIONS TO THE POND AT NO ADDITIONAL COST TO THE OWNER.
4. FIELD DENSITY TESTING FREQUENCIES: A) ONE TEST FOR EACH 10,000 SQUARE FEET OR FRACTION THEREOF PER LIFT OF GENERAL BACKFILL SOILS, MINIMUM 2 TESTS EACH LAYER; B) ONE TEST FOR EACH 100 SQUARE FEET OR FRACTION THEREOF OF BACKFILL AROUND AND UNDER STRUCTURES; C) ONE TEST FOR EACH 300 LINEAL FEET OR FRACTION THEREOF PER LIFT OF GENERAL BACKFILL IN THE PIPELINE TRENCH; D) ONE TEST PER LIFT PER EACH CHANGE IN TYPE OF FILL; E) ONE TEST PER 10,000 SQUARE FEET OF PAVEMENT SUBGRADE, MINIMUM OF 2 TESTS.
5. IT IS INTENDED THAT PREVIOUSLY EXCAVATED MATERIALS CONFORMING TO THE FOLLOWING REQUIREMENTS BE UTILIZED WHEREVER POSSIBLE:
 - A. ACCEPTABLE MATERIALS: AASHTO M145 CLASSIFICATION A-1, A-3, A-2.4, A-2.6, ASTM D2487 CLASSIFICATION GW, GP, GM, SM, SW, SP, UNLESS OTHERWISE DISAPPROVED WITHIN THE SOIL AND SUBSURFACE INVESTIGATION REPORTS. NO MORE THAN 12% OF ACCEPTABLE MATERIALS SHALL PASS THE NUMBER 200 SIEVE.
 - B. UNACCEPTABLE MATERIALS: AASHTO M145 CLASSIFICATION A-2.5, A-2.7, A-4, A-5, A-6, A-7, A-8, ASTM D2487 CLASSIFICATION GC, SC, ML, MH, CL, CH, OL, OH, PT, UNLESS OTHERWISE DISAPPROVED WITHIN THE SOIL AND SUBSURFACE INVESTIGATION REPORTS.
6. PROVIDE BARRIERS, WARNING LIGHTS AND OTHER PROTECTIVE DEVICES AT ALL EXCAVATIONS.
7. SIDEWALKS, ROADS, STREETS, AND PAVEMENTS SHALL NOT BE BLOCKED OR OBSTRUCTED BY EXCAVATED MATERIALS, EXCEPT AS AUTHORIZED BY THE ENGINEER, IN WHICH CASE ADEQUATE TEMPORARY PROVISIONS MUST BE MADE FOR SATISFACTORY TEMPORARY PASSAGE OF PEDESTRIANS, AND VEHICLES. MINIMIZE INCONVENIENCE TO PUBLIC TRAVEL OR TO TENANTS OCCUPANCY ADJOINING PROPERTY.
8. FURNISH, INSTALL, AND MAINTAIN, WITHOUT ADDITIONAL COMPENSATION, SHEETING, BRACING, AND SHORING SUPPORT REQUIRED TO KEEP EXCAVATIONS WITHIN THE PROPERTY OR EASEMENTS PROVIDED, TO SUPPORT THE SIDES OF THE EXCAVATION, AND TO PREVENT ANY MOVEMENT WHICH MAY DAMAGE ADJACENT PAVEMENTS OR STRUCTURES, DAMAGE OR DELAY THE WORK, OR ENDANGER LIFE AND HEALTH. VOIDS OUTSIDE THE SUPPORTS SHALL BE IMMEDIATELY FILLED AND COMPACTED.
9. SHEETING, SHORING, AND BRACING USED FOR THE SUPPORT OF EXCAVATIONS OVER 20 FEET DEEP SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER LICENSED BY THE STATE OF ALABAMA.
10. ALL EXCAVATIONS SHALL BE MADE BY OPEN CUT UNLESS OTHERWISE INDICATED. SLOPE SIDES OF TRENCHES IN ACCORDANCE WITH OSHA REQUIREMENTS AND THE RECOMMENDATIONS CONTAINED WITHIN THE PROJECT GEOTECHNICAL REPORT.
11. EXCAVATE TRENCHES TO DEPTH INDICATED OR REQUIRED FOR INDICATED FLOW LINES AND INVERT ELEVATIONS. OVER EXCAVATE TRENCHES A MINIMUM OF 2 FEET WHERE EXCAVATIONS OCCUR WITHIN UNSUITABLE SOILS, AND REPLACE OVER EXCAVATED MATERIAL WITH SUITABLE SOILS.
12. EXCEPT AS OTHERWISE INDICATED, EXCAVATE FOR PRESSURE PIPING SO TOP OF PIPING IS MINIMUM 3 FEET BELOW FINISHED GRADE.
13. TRENCH BOTTOMS AND THE BOTTOMS OF ALL STRUCTURES SHALL BE KEPT DRY, COMPACTED, AND STABLE TO A DEPTH TWO FEET BELOW THE BOTTOM OF THE TRENCH OR STRUCTURE.
14. ALL BEDDING, FILL, AND BACKFILL MATERIAL SHALL BE SUITABLE SOILS OR FLOWABLE FILL. WHERE TRENCH OR EXCAVATION IS WITHIN THE INFLUENCE AREA OF FLOW LINES, OR SLABS, FOUNDATIONS, OR SLABS, PLACE BACKFILL IN LAYERS OF 8 INCH LOOSE DEPTH. IN ALL OTHER AREAS, PLACE FILL AND BACKFILL IN LAYERS OF 12 INCH LOOSE DEPTH.
15. MINIMUM DENSITY REQUIREMENT (ASTM D1557 OR AASHTO T198): BACKFILL AND FILL UNDER AND WITHIN THE INFLUENCE AREA OF ROADWAYS, STRUCTURES, SLABS, FOUNDATIONS = 98 PERCENT; BACKFILL AND FILL PLACED WITHIN PUBLIC ROAD RIGHT-OF-WAY AND UTILITY EASEMENTS = 95 PERCENT; BACKFILL AND FILL PLACED WITHIN POND AND ROAD EMBANKMENT = 95 PERCENT; BACKFILL AND FILL PLACED IN ALL OTHER AREAS = 90 PERCENT.

UTILITY SEPARATION REQUIREMENTS

1. THE HORIZONTAL SEPARATION BETWEEN WATER MAINS AND SANITARY SEWER, STORM SEWER, WASTEWATER FORCE MAINS, STORMWATER FORCE MAINS, RECLAIMED WATER MAINS AND ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS SHALL BE IN ACCORDANCE WITH THE FOLLOWING:
 - A. THE OUTSIDE OF WATER MAINS SHALL BE A MINIMUM OF FIVE FEET FROM THE OUTSIDE OF ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, VACUUM TYPE SANITARY SEWER AND RECLAIMED WATER MAIN.
 - B. THE OUTSIDE OF WATER MAINS SHALL BE A MINIMUM OF TEN FEET FROM THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY SANITARY SEWER AND WASTEWATER FORCE MAIN. THE MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN THE OUTSIDE OF WATER MAINS AND THE OUTSIDE OF GRAVITY SANITARY SEWERS CAN BE REDUCED TO THREE FEET WHERE THE BOTTOM OF THE WATER MAIN IS AT LEAST EIGHTEEN INCHES ABOVE THE TOP OF THE SEWER.
 - C. THE OUTSIDE OF WATER MAINS SHALL BE A MINIMUM OF TEN FEET FROM ALL PARTS OF ANY EXISTING OR PROPOSED ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM SUCH AS SEPTIC TANKS, DRAINFIELDS, AND GREASE TRAPS. ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS DO NOT INCLUDE PACKAGE SEWAGE TREATMENT FACILITIES AND PUBLIC WASTEWATER TREATMENT FACILITIES.
2. THE VERTICAL SEPARATION BETWEEN WATER MAINS AND SANITARY AND STORM SEWER, WASTEWATER OR STORMWATER FORCE MAINS, AND RECLAIMED WATER MAINS SHALL BE IN ACCORDANCE WITH THE FOLLOWING:
 - A. WHEREVER POSSIBLE, WATER MAINS SHALL CROSS OVER EXISTING OR PROPOSED GRAVITY SANITARY SEWER, VACUUM TYPE SANITARY SEWER, AND STORM SEWER, SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX INCHES ABOVE THE OUTSIDE OF THE SEWER. WHERE IT IS NOT POSSIBLE FOR THE WATER MAIN TO CROSS OVER EXISTING OR PROPOSED GRAVITY SANITARY SEWER, VACUUM TYPE SANITARY SEWER, AND STORM SEWER, THEN THE WATER MAIN CAN CROSS UNDER THESE TYPES OF PIPELINE SYSTEMS PROVIDED THE OUTSIDE OF THE WATER MAIN IS AT LEAST 18 INCHES BELOW THE OUTSIDE OF THE PIPELINE. AT THE CROSSING, THE PROPOSED PIPE JOINTS SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST FIVE FEET FROM VACUUM TYPE SANITARY SEWER OR STORM SEWER JOINTS, AND AT LEAST TEN FEET FROM GRAVITY SANITARY SEWER JOINTS.
 - B. WHEREVER POSSIBLE, WATER MAINS SHALL CROSS OVER EXISTING OR PROPOSED RECLAIMED WATER MAINS, WASTEWATER FORCE MAINS, AND STORMWATER FORCE MAINS. WHERE THE WATER MAIN CROSSES OVER OR UNDER THESE TYPES OF PIPELINE SYSTEMS, THE OUTSIDE OF THE WATER MAIN SHALL BE AT LEAST 18 INCHES FROM THE OUTSIDE OF THE EXISTING OR PROPOSED RECLAIMED WATER MAIN, WASTEWATER FORCE MAIN AND STORMWATER FORCE MAIN. AT THE CROSSING, THE PROPOSED PIPE JOINTS SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST FIVE FEET FROM RECLAIMED WATER MAIN JOINTS AND STORMWATER FORCE MAIN JOINTS, AND AT LEAST TEN FEET FROM THE JOINTS OF WASTEWATER FORCE MAINS.
3. NO WATER MAIN SHALL PASS THROUGH OR COME IN CONTACT WITH ANY PART OF A SANITARY SEWER MANHOLE.
4. NEW OR RELOCATED FIRE HYDRANTS SHALL BE LOCATED SUCH THAT THE UNDERGROUND DRAIN (WEEP HOLE) IS AT LEAST:
 - A. FIVE FEET FROM ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, RECLAIMED WATER MAIN, OR VACUUM TYPE SANITARY SEWER.
 - B. TEN FEET FROM ANY EXISTING OR PROPOSED GRAVITY SANITARY SEWER AND WASTEWATER FORCE MAIN.
 - C. TEN FEET FROM ANY ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM SUCH AS SEPTIC TANKS, DRAINFIELDS, AND GREASE TRAPS. ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS DO NOT INCLUDE PACKAGE SEWAGE TREATMENT FACILITIES AND PUBLIC WASTEWATER TREATMENT FACILITIES.

WATER AND RECLAIMED WATER DISTRIBUTION SYSTEMS

1. THE ENTITY THAT WILL OPERATE AND MAINTAIN THE PUBLIC WATER SHOWN ON THESE PLANS IS MADISON COUNTY UTILITIES. WATER SYSTEMS LOCATED ON SITE OR WITHIN THE PRIVATE UTILITY EASEMENT WILL BE PRIVATELY MAINTAINED. THE CONTRACTOR SHALL MEET ALL THE REQUIREMENTS OF MADISON COUNTY UTILITIES.
2. INSTALL ALL WATER MAINS AT A MINIMUM 36 INCHES OF COVER.
3. PVC PIPE SHALL BE NATIONAL SANITATION FEDERATION (NSF) APPROVED. PIPE SHALL HAVE MARKINGS ON EACH SECTION SHOWING CONFORMANCE TO THE ABOVE SPECIFICATIONS. JOINTS SHALL BE RUBBER GASKETED CONFORMING TO AWWA C200 OR C205. THE BELL SHALL BE OF THE SAME SIZE AND OF EQUAL OR GREATER PRESSURE RATING. THE BELL OF PIPE AND FITTINGS USING PUSH-ON JOINTS SHALL HAVE AN INTEGRAL GROOVE TO RETAIN THE GASKET IN PLACE.
4. ALL FITTINGS SHALL BE MANUFACTURED OF DUCTILE IRON, CONFORMING TO ANSI/AWWA C110/A21.10 OR ANSI/AWWA C153/A21.53. ALL FULL BODY (C110/A21.10) FITTINGS SHALL BE PRESSURE RATED TO 250 PSI, MINIMUM. ALL COMPACT FITTINGS (C153/A21.53) SHALL BE PRESSURE RATED TO 350 PSI, MINIMUM.
5. ALL DUCTILE IRON PIPE AND FITTINGS SHALL BE LINED AND COATED. INTERIOR LINING SHALL BE STANDARD THICKNESS CEMENT MORTAR LINING PER ANSI/AWWA C104/A21.4. EXTERIOR COATING FOR BURIED PIPE AND FITTINGS SHALL BE A PETROLEUM ASPHALTIC COATING IN ACCORDANCE WITH ANSI/AWWA C110/A21.10. EXTERIOR COATINGS OF EXPOSED PIPE AND FITTINGS SHALL BE FACTORY APPLIED RUST INHIBITING EPOXY PRIMER, MINIMUM 3 MILS DRY FILM THICKNESS. AFTER INSTALLATION, EXTERIOR SURFACES SHALL BE PAINTED WITH A TWO COAT SYSTEM. THE FIRST COAT (INTERMEDIATE COAT) SHALL BE 0.4-0.10 MIL DFT TNEPEC COLOR H-BUILD EPOXYLINE II SERIES N69 OR APPROVED EQUAL, AND THE FINAL COAT SHALL BE 2.0-3.0 MIL DFT TNEPEC ENDURASHIELD SERIES 73 OR APPROVED EQUAL. THE FINAL COAT PAINT COLOR SHALL BE AS SELECTED BY THE LOCAL UTILITY.
6. MECHANICAL AND PUSH ON JOINTS FOR DUCTILE IRON PIPE AND FITTINGS SHALL BE RUBBER GASKETED, CONFORMING TO ANSI/AWWA C111/A21.11. LUBRICANTS OTHER THAN THAT FURNISHED BY THE PIPE MANUFACTURER WITH THE PIPE SHALL NOT BE USED.
7. POLYETHYLENE PIPE AND TUBING SHALL BE COLOR CODED BLUE (POTABLE WATER) OR PURPLE (RECLAIMED WATER). PIPE AND FITTINGS SHALL BE NSF APPROVED FOR THE USAGE TO WHICH THEY ARE TO BE APPLIED. JOINTS IN SDR-PR PE PIPE SHALL BE BUTT HEAT FUSION OR SOCKET HEAT FUSION TYPE. FITTINGS SHALL BE MANUFACTURED OF THE SAME MATERIAL AS THE PIPE AND SHALL BE OF THE SAME SIZE OR LESS. PROVIDE ADAPTERS AS REQUIRED TO JOIN PE PIPE TO PIPE, FITTINGS AND EQUIPMENT OF OTHER MATERIALS.
8. ALL SERVICES SHALL INCLUDE THE FOLLOWING: CURB STOPS, UNIONS AS REQUIRED, CORPORATION STOPS, CONFORMANCE WITH AWWA C800 AND C801 IS REQUIRED. THE CONTRACTOR SHALL CUT "W" IN THE TOP CURB OF EACH WATER SERVICE AND A "V" AT ALL VALVE LOCATIONS. CUT WS AND VS SHALL BE HIGHLIGHTED WITH BLUE PAINT.
9. UNLESS OTHERWISE NOTED IN THE PLANS, THE UTILITY COMPANY SHALL PROVIDE WATER METERS. CONTRACTOR SHALL CONSTRUCT WATER SERVICE TO THE CORPORATION STOP.
10. UNLESS OTHERWISE INDICATED OR SPECIFIED, ALL VALVES TWO INCHES AND SMALLER SHALL BE ALL BRASS OR BRONZE; VALVES OVER TWO INCHES SHALL BE IRON BODY, FULLY BRONZE OR BRONZE MOUNTED.
11. ALL VALVES 12" AND SMALLER SHALL BE GATE VALVES UNLESS OTHERWISE INDICATED ON THE DRAWINGS. GATE VALVES 3 INCHES TO 12 INCHES SHALL CONFORM TO AWWA C509 OR AWWA C515. THE VALVES SHALL BE IRON BODY, CAST IRON FULLY ENCAPSULATED MOLDED RUBBER WEDGE COMPLYING WITH ASTM D2000, NON-RISING STEM WITH O-RING SEALS. VALVES SHALL OPEN COUNTERCLOCKWISE.
12. TAPPING SLEEVES ARE TO BE 18-8 TYPE 304 STAINLESS STEEL AND STAINLESS STEEL OUTLET, AS MANUFACTURED BY JCM OR APPROVED EQUAL. TAPPING VALVES SHALL BE RESILIENT SEATED GATE VALVES AND SHALL CONFORM TO THE REQUIREMENTS OF AWWA C509. TAPPING VALVES SHALL BE AMERICAN FLOW CONTROL SERIES 2500, CLOW SERIES F-6100, OR MUELLER SERIES A2360.
13. PVC PIPES SHALL BE COLOR CODED BLUE (WATER MAINS) OR PURPLE (RECLAIMED WATER MAINS) AND STENCILED (0.75-INCH LETTERING ON THE PIPE IN AT LEAST THREE AREAS PER PIPE SECTION) "POTABLE WATER MAIN" OR "RECLAIMED WATER MAIN" AS APPLICABLE.
14. INSTALL IDENTIFICATION TAPE ALONG ALL DUCTILE IRON PIPE AND PVC PIPE. MINIMUM THICKNESS 4 MILS, WIDTH 6 INCHES, LETTER SIZE 1 INCH. APPLY TAPE TO SURFACE OF PIPE, CONTINUOUSLY EXTENDING FROM JOINT TO JOINT. TAPE COLOR AND LETTERING SHALL BE BLACK PRINTING ON BLUE BACKGROUND (WATER MAINS); BLACK PRINTING ON PURPLE BACKGROUND (RECLAIMED WATER MAINS). CENTER LINE OF TAPE SHALL FOLLOW: 2" - 8" PIPE - CENTER LINE OF PIPE; 10" - 18" PIPE - PLACE ALONG BOTH SIDES OF THE TOP HALF OF PIPE; 20" PIPE AND LARGER - PLACE ON BOTH SIDES OF TOP HALF OF PIPE WITH A THIRD STRIP CENTERED ALONG TOP HALF OF PIPE.
15. INSTALL WARNING TAPE ALONG ALL PIPELINES, PLACED 2 FEET ABOVE PIPE. TAPE SHALL BE 6-INCH WIDE VINYL, CONTINUOUS TAPE. TAPE SHALL BE COLORED BLUE (WATER MAINS) OR PURPLE (RECLAIMED WATER MAINS) WITH BLACK LETTERING, CODED AND WORDED "CAUTION: WATER MAIN BURIED BELOW" OR "CAUTION: RECLAIMED WATER MAIN BURIED BELOW" AS APPLICABLE.
16. ALL PVC PIPE INSTALLATIONS SHALL REQUIRE ELECTRONIC UTILITY MARKERS TO BE BURIED AT EVERY TEE, BELL, VALVE, FITTING, CAP & APPURTENANCE. MARKERS SHALL BE 3M EMS BALL MARKER 1403-XR.
17. ALL CHANGES IN DIRECTION SHALL BE MADE WITH FITTINGS OR APPROVED JOINT DEFLECTION. BENDING OF PIPE, EXCEPT COPPER AND POLYETHYLENE, IS PROHIBITED. JOINT DEFLECTION SHALL NOT EXCEED 75% OF THE MANUFACTURER'S RECOMMENDED MAXIMUM DEFLECTION.
18. TEST PROCEDURES SHALL BE APPROVED BY THE ENGINEER. ALL TESTS SHALL BE MADE IN THE PRESENCE OF THE ENGINEER AND UTILITY. NOTIFY THE ENGINEER AND THE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY WORK IS TO BE INSPECTED OR TESTED.
19. PROVIDE ALL EQUIPMENT FOR TESTING. INCREMENTS ON GAGES USED FOR LOW PRESSURE AIR TESTING SHALL BE OF SCALED TO THE NEAREST 0.1 PSI. GAGES, PUMPS, AND HOSES SHALL BE IN GOOD WORKING ORDER WITH NO NOTICEABLE LEAKS.
20. ALL SERVICE LINES SHALL BE COMPLETED PRIOR TO TESTING, AND ARE SUBJECT TO THE SAME TESTING REQUIREMENTS AS THE MAIN LINE.
21. THE SEQUENCE OF TESTING AND DISINFECTION SHALL BE AS FOLLOWS: 1) CONDUCT PRESSURE AND LEAKAGE TESTING; 2) PERFORM FLUSHING PER UTILITY REQUIREMENTS AND AWWA C651; 3) DISINFECT THE WATER MAIN, INCLUDING VALVES AND FITTINGS; AND 4) DECHLORINATE AND FLUSH AFTER DISINFECTION.
22. ALL TESTING TO BE PER MWSSB STANDARDS & SPECIFICATIONS.
23. ALL APPARENT LEAKS DISCOVERED WITHIN ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK BY THE OWNER SHALL BE LOCATED AND REPAIRED BY CONTRACTOR.
24. PRIOR TO DISINFECTION, CONDUCT FULL DIAMETER FLUSHING OF PIPELINE IN SECTIONS IN ORDER TO REMOVE ANY SOLIDS OR CONTAMINATED MATERIAL THAT MAY HAVE BECOME LODGED IN THE PIPE.
25. OBTAIN A MINIMUM FLUSHING VELOCITY OF 2.5 FEET PER SECOND PER AWWA C651.
26. ALL TAPS REQUIRED FOR FLUSHING AND THE TEMPORARY OR PERMANENT RELEASE OF AIR AS NEEDED FOR FLUSHING SHALL BE PROVIDED BY THE CONTRACTOR.
27. DISINFECT ALL POTABLE WATER LINES, FIRE LINES, VALVES, FITTINGS, HYDRANTS. THE WATER MAIN DISINFECTION AND BACTERIOLOGICAL SAMPLING AND METHODS OF DISINFECTION FOR ALL WATER CONTAINMENT DEVICES AND PIPING SYSTEMS SHALL CONFORM TO AWWA C651. THE DISCHARGE LOCATIONS FOR THE CHLORINATED WATER SHALL BE APPROVED BY THE OWNER. NEUTRALIZE THE CHLORINE RESIDUAL BY MEANS OF A REDUCING AGENT IN ACCORDANCE WITH AWWA C651.
28. ALL DISINFECTION WORK SHALL BE ACCEPTABLE TO THE STATE HEALTH AUTHORITY. IF ANY REQUIREMENTS OF THIS SECTION ARE IN CONFLICT WITH REQUIREMENTS OF THE AUTHORITY FOR DISINFECTION, THOSE OF THE AUTHORITY SHALL GOVERN. ALL BACTERIOLOGICAL TESTING SHALL BE PERFORMED BY A STATE CERTIFIED LABORATORY CONTRACTED BY THE CONTRACTOR. PROPER CHAIN OF CUSTODY PROCEDURES MUST BE FOLLOWED AND SAMPLES SHALL ONLY BE COLLECTED BY CERTIFIED LABORATORY PERSONNEL. COPIES OF ALL TESTING RESULTS AND ALL RELATED CORRESPONDENCE FROM THE TESTING LAB SHALL BE SUBMITTED TO THE OWNER, UTILITY, AND ENGINEER.
29. ERIOLOGICAL SAMPLING AND METHODS OF DISINFECTION FOR ALL WATER CONTAINMENT DEVICES AND PIPING SYSTEMS SHALL CONFORM TO AWWA C651. THE DISCHARGE LOCATIONS FOR THE CHLORINATED WATER SHALL BE APPROVED BY THE OWNER. NEUTRALIZE THE CHLORINE RESIDUAL BY MEANS OF A REDUCING AGENT IN ACCORDANCE WITH AWWA C651.
30. ALL DISINFECTION WORK SHALL BE ACCEPTABLE TO THE STATE HEALTH AUTHORITY. IF ANY REQUIREMENTS OF THIS SECTION ARE IN CONFLICT WITH REQUIREMENTS OF THE AUTHORITY FOR DISINFECTION, THOSE OF THE AUTHORITY SHALL GOVERN. ALL BACTERIOLOGICAL TESTING SHALL BE PERFORMED BY A STATE CERTIFIED LABORATORY CONTRACTED BY THE CONTRACTOR. PROPER CHAIN OF CUSTODY PROCEDURES MUST BE FOLLOWED AND SAMPLES SHALL ONLY BE COLLECTED BY CERTIFIED LABORATORY PERSONNEL. COPIES OF ALL TESTING RESULTS AND ALL RELATED CORRESPONDENCE FROM THE TESTING LAB SHALL BE SUBMITTED TO THE OWNER, UTILITY, AND ENGINEER.

TRAFFIC CONTROL

1. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A MAINTENANCE OF TRAFFIC (M.O.T.) PLAN PRIOR TO CONSTRUCTION. THE M.O.T. PLAN SHALL SHOW ALL PROPOSED TRAFFIC CONTROL SIGNS, PAVEMENT MARKINGS, AND BARRICADES, AND PROVIDE DETAILED INFORMATION REGARDING ALL PROPOSED TRAFFIC CONTROL MEASURES. THE M.O.T. PLAN SHALL BE APPROVED BY THE ENGINEER, OWNER, AND ROADWAY JURISDICTIONAL AGENCY PRIOR TO CONSTRUCTION. IN GENERAL, ROADWAY AND DRIVEWAY LANE CLOSURES ARE PROHIBITED DURING CONSTRUCTION UNLESS SPECIFICALLY AUTHORIZED BY THE ENGINEER. THE M.O.T. PLAN SHALL BE RESTRICTED TO THE HOURS BETWEEN 9:00 A.M. AND 4:00 P.M. UNLESS OTHERWISE AUTHORIZED IN THE APPROVED M.O

SANITARY SEWER SYSTEMS

1. THE ENTITY THAT WILL OPERATE AND MAINTAIN THE PUBLIC SEWER SYSTEM SHOWN ON THESE PLANS IS MADISON COUNTY UTILITIES. SEWER SYSTEM ON SITE OR WITHIN THE PRIVATE UTILITY EASEMENT WILL BE PRIVATELY MAINTAINED. THE CONTRACTOR SHALL MEET ALL THE REQUIREMENTS OF MADISON COUNTY UTILITIES.
2. INSTALL ALL SEWER MAINS AT A MINIMUM 36 INCHES OF COVER.
3. JOINTS SHALL MEET THE REQUIREMENTS OF ASTM D3212 USING RUBBER GASKETS CONFORMING TO ASTM F477.
4. FITTINGS SHALL CONFORM TO THE SAME REQUIREMENTS AS THE PIPE. PROVIDE ADAPTERS AS REQUIRED TO JOIN PVC PIPE TO PIPE, FITTINGS AND EQUIPMENT OF OTHER MATERIALS. SOLVENT CEMENT SHALL BE AS RECOMMENDED BY THE PIPE MANUFACTURER.
5. SEWER PIPE SHALL BE COLOR CODED GREEN, STENCILED "SEWER LINE" (2" LETTERING ON TWO SIDES OF THE PIPE IN AT LEAST THREE AREAS PER PIPE SECTION).
6. INSTALL WARNING TAPE ALONG ALL SEWER PIPELINES. TAPE SHALL BE 4-INCH WIDE VINYL, CONTINUOUS TAPE, COLORED GREEN WITH BLACK LETTERING CODED AND WORDED "CAUTION: SEWER BURIED BELOW". INSTALL ALONG PIPELINE, 2 FEET ABOVE PIPE, MINIMUM OF 1 FOOT BELOW GRADE.
7. CONNECTIONS TO EXISTING SEWER SHALL BE CONDUCTED IN SUCH A MANNER THAT THE EXISTING SEWER REMAINS IN OPERATION. PROVIDE BY PASS PUMPING OF EXISTING FLOWS OR COLLECT AND LEGALLY DISPOSE OF EXISTING SEWER FLOW AS NEEDED TO ACCOMMODATE CONSTRUCTION WHILE KEEPING EXISTING SEWER IN SERVICE.
8. PRIOR TO INSPECTIONS AND TESTING, CLEAN ALL INSTALLED LINES AND MANHOLES. TEST PROCEDURES SHALL BE APPROVED BY THE ENGINEER. ALL TESTS SHALL BE MADE IN THE PRESENCE OF THE ENGINEER AND UTILITY. NOTIFY THE ENGINEER AND THE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY WORK IS TO BE INSPECTED OR TESTED.
9. PROVIDE ALL EQUIPMENT FOR TESTING. INCREMENTS ON GAGES USED FOR LOW PRESSURE AIR TESTING SHALL BE OF SCALED TO THE NEAREST 0.1 PSI. GAGES, PUMPS, AND HOSES SHALL BE IN GOOD WORKING ORDER WITH NO NOTICEABLE LEAKS.
10. ALL SERVICE LATERALS SHALL BE COMPLETED PRIOR TO TESTING, AND ARE SUBJECT TO THE SAME TESTING REQUIREMENTS AS THE MAIN LINE.
11. CONDUCT LOW PRESSURE AIR TESTING OF INSTALLED SEWER PIPING IN ACCORDANCE MADISON UTILITY STANDARDS & SPECIFICATIONS.

PRECAST STRUCTURES AND APPURTENANCES

1. ALL MANHOLES SHALL BE PRECAST CONSTRUCTION. THE MINIMUM SIZE DIAMETER OF MANHOLES SHALL BE 48" FOR SEWER LINES 21" IN DIAMETER OR LESS. INTEGRALLY CAST STEPS WITHIN PRECAST STRUCTURES ARE NOT ALLOWED.
2. BASES SHALL BE ONE-PIECE PRECAST BASE SECTIONS CONSISTING OF INTEGRALLY CAST SLAB, BOTTOM RING SECTION AND CONCRETE FLOW CHANNELS. BASE SECTIONS SHALL HAVE INTEGRAL INVERTS WITH GASKETS TO MATCH THE PIPE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING ALL INVERT ANGLES. PROVIDE OUTLET STUBS WITH JOINTS TO MATCH THE PIPE.
3. RISERS SHALL BE PRECAST REINFORCED CONCRETE PER ASTM C478, MANUFACTURED USING SULFATE RESISTANT CEMENT (ASTM C150, TYPE II). RISERS SHALL BE 48-INCH DIAMETER UNLESS OTHERWISE INDICATED AND SHALL HAVE A MINIMUM WALL THICKNESS OF 6 INCHES.
4. GASKETS FOR SEATING PRECAST SECTIONS SHALL BE COLD ADHESIVE PREFORMED PLASTIC GASKETS CONFORMING TO AUTHORITY HAVING JURISDICTION SPECIFICATIONS, UNLESS OTHERWISE INDICATED.
5. UNLESS OTHERWISE INDICATED, CONE TOP SECTIONS SHALL BE PRECAST, CONCENTRIC TYPE WITH 24-INCH DIAMETER TOP OPENING CONFORMING TO ASTM C478.
6. PROVIDE A WATERTIGHT SEAL OF THE PIPE TO THE MANHOLE PER AUTHORITY HAVING JURISDICTION STANDARDS.
7. FRAMES AND COVERS SHALL BE IN ACCORDANCE WITH AUTHORITY HAVING JURISDICTION STANDARDS.
8. PROVIDE INLETS, FRAMES, AND GRATES IN ACCORDANCE WITH DETAILS ON THE DRAWINGS. ALL FRAMES AND INLET GRATES SHALL BE PRODUCTS OF U.S. FOUNDRY & MANUFACTURING CORPORATION, OR EQUAL.
9. ALL INLET GRATES SHALL BE SECURED BY CHAIN AND EYEBOLT TO THE TOP OF THE STRUCTURE.
10. MANHOLE COATINGS AND FINISHES SHALL BE IN ACCORDANCE WITH AUTHORITY HAVING JURISDICTION STANDARD DETAILS, AND:
 - A. SANITARY SEWER MANHOLE INTERIOR - BITUMINOUS EPOXY COATING, MINIMUM DRY FILM THICKNESS = 16 MILS.
 - B. INTERIOR OF MANHOLES WHICH RECEIVE FORCE MAIN DISCHARGE - INTEGRALLY ATTACHED INTERIOR LINER, FULL HEIGHT, FIBERGLASS LINER. LINER THICKNESS TO BE IN ACCORDANCE WITH THE DRAWINGS.
 - C. EXTERIOR - BITUMINOUS EPOXY COATING, MINIMUM DRY FILM THICKNESS = 16 MILS.

PAVING, SIDEWALKS, AND CURBING

1. MATERIALS AND CONSTRUCTION METHODS FOR THE ROADWAY AND PAVING CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE ALABAMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITION.
2. ROADWAY PAVING, BASE, AND SUBGRADE THICKNESSES SHALL BE IN ACCORDANCE WITH DETAILS ON THESE DRAWINGS AND IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.
3. SIDEWALKS ARE TO BE CONSTRUCTED IN THE AREAS AS SHOWN ON THE CONSTRUCTION PLANS. HANDICAPPED RAMPS SHALL BE PROVIDED AT ALL INTERSECTIONS AND SHALL BE IN ACCORDANCE WITH THE ALABAMA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION.
4. CURBING SHALL BE CONSTRUCTED WHERE NOTED ON THE CONSTRUCTION PLANS. 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 ADOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (LATEST EDITION) INDEX 61801 AND DETAILS PROVIDED ON THE CONSTRUCTION PLANS.
5. FIELD COMPACTION DENSITY, STABILITY, AND THICKNESS TESTING FREQUENCIES OF SUB-BASE, BASE, AND ASPHALT SHALL BE TESTED ONCE EVERY 300 LINEAR FEET OF PAVING PER 24-FT WIDE STRIP, STAGGERED LEFT, CENTER AND RIGHT OF CENTERLINE. WHERE LESS THAN 300 LINEAR FEET OF SUB-BASE, BASE, AND ASPHALT IS PLACED IN ONE DAY, PROVIDE MIN. OF ONE TEST FOR EACH PER DAY'S CONSTRUCTION AT A LOCATION DESIGNATED BY THE ENGINEER. ASPHALT EXTRACTION GRADATION SHALL BE TESTED FROM GRAB SAMPLES COLLECTED ONCE EVERY 1800 SQUARE YARDS OF ASPHALT DELIVERED TO THE SITE (OR A MINIMUM OF ONCE PER DAY).

PANDA EXPRESS PROTO NOTES

1. CONTRACTOR SHALL ENSURE 100% COVERAGE OF ALL LANDSCAPED AREA WITHIN LIMITS OF WORK, INCLUDING POTENTIAL OFFSITE AREAS. COVERAGE SHALL INCLUDE BOTH LANDSCAPING AND IRRIGATION.
2. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES (LOCATIONS ELEVATIONS) PRIOR TO STARTING CONSTRUCTION AND ALERT ENGINEER TO ANY DISCREPANCIES IMMEDIATELY.
3. CONTRACTOR SHALL INSTALL GENERAL UTILITY CONDUITS TO PLANTERS AROUND BUILDING AND PATIO. SEE ARCHITECTURAL / MEP PLANS FOR CONTINUATION.
4. CONTRACTOR SHALL PROTECT ALL ITEMS OUTSIDE LIMITS OF CONSTRUCTION UNLESS OTHERWISE NOTED IN THE CONSTRUCTION PLANS OR SPECIFICATIONS.
5. CONTRACTOR SHALL COORDINATE AND VERIFY LOCATION OF ALL SIGNAGE WITH OWNER PRIOR TO CONSTRUCTION.
6. CONTRACTOR SHALL COORDINATE ADJUST LOCATION OF LOOP DETECTORS TO AVOID UTILITY CONFLICTS DURING CONSTRUCTION.
7. THE GEOTECHNICAL INVESTIGATION PREPARED BY TERRACON CONSULTANTS, INC. DATED MAY 27, 2021 AND ANY SUBSEQUENT ADDENDUMS IS CONSIDERED PART OF THE CONTRACT DOCUMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE REPORT'S RECOMMENDATIONS AND FINDINGS WITH THE OWNER, ENGINEER AND ARCHITECT PRIOR TO CONSTRUCTION. IMPLEMENTATION OF THE REPORT'S RECOMMENDATIONS MAY REQUIRE THE CONTRACTOR TO PERFORM ADDITIONAL WORK NOT SHOWN ON THE CIVIL PLANS INCLUDING BUT NOT LIMITED TO: EXCAVATION, REMEDIATION, DEWATERING, COMPACTION, ETC.
8. THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL LOCAL, STATE, AND FEDERAL CERTIFICATION AND LICENSING REQUIREMENTS FOR CONSTRUCTION, INCLUDING BUT NOT LIMITED TO: LAND DISTURBANCE PERMITS, BUILDING PERMITS, DEMOLITION PERMITS, NPDES PERMITS, DEWATERING PERMITS, ETC.
9. 24-HOUR CONTACT: JOE CELENTO, PHONE: (912) 272-4811

STORM SEWER SYSTEMS

1. ALL STORM SEWER PIPE SHALL BE REINFORCED CONCRETE PIPE (RCP) UNLESS OTHERWISE INDICATED ON THE DRAWINGS. ROUND CONCRETE PIPE SHALL COMPLY WITH ASTM C76. ELLIPTICAL CONCRETE PIPE SHALL COMPLY WITH ASTM C507. PIPE JOINTS SHALL COMPLY WITH ASTM C443 AND RUBBER GASKETS SHALL COMPLY WITH AUTHORITY HAVING JURISDICTION SPECIFICATIONS. MINIMUM COVER OVER THE PIPE, INCLUDING COVER OVER THE BELL OF THE PIPE WHERE APPLICABLE, SHALL BE 30 INCHES.
2. RCP PIPE SHALL NOT BE SHIPPED FROM MANUFACTURER UNTIL THE COMPRESSIVE STRENGTH OF THE PIPE HAS REACHED 4000 PSI AND A MINIMUM OF 5 DAYS HAVE PASSED SINCE THE MANUFACTURING OR REPAIR OF THE PIPE HAS BEEN COMPLETED.
3. CORRUGATED POLYETHYLENE PIPE AND FITTINGS 4 INCH THROUGH 10 INCH DIAMETER SHALL COMPLY WITH AASHTO M252, TYPE S. PIPE 12 INCH THROUGH 48 INCH DIAMETER SHALL COMPLY WITH AASHTO M294, TYPE S, AND ASTM F2306. PIPE 54 INCH THROUGH 60 INCH DIAMETER SHALL COMPLY WITH AUTHORITY HAVING JURISDICTION SPECIFICATIONS AND SHALL COMPLY WITH AASHTO M294. VIRGIN MATERIAL FOR THE PRODUCTION OF PIPE AND FITTINGS SHALL BE HIGH DENSITY POLYETHYLENE CONFORMING TO THE MINIMUM REQUIREMENTS OF CELL CLASSIFICATION 424420C FOR 4-INCH THROUGH 10-INCH DIAMETERS AND 435400C FOR 12-INCH THROUGH 60-INCH DIAMETERS PER ASTM D3350. THE 12-INCH THROUGH 60-INCH VIRGIN PIPE MATERIAL SHALL COMPLY WITH THE NOTCHED CONSTANT LIAMENT-STRESS (NCLS) TEST AS SPECIFIED IN ASTM F2306. BELL JOINTS FOR 4 INCH THROUGH 10 INCH DIAMETER PIPE SHALL BE PUSH-ON SLEEVE. BELL JOINTS FOR 12 INCH THROUGH 60 INCH DIAMETER PIPE SHALL BE INTEGRALLY FORMED ON PIPE. PIPE JOINTS SHALL BE WATERTIGHT PER ASTM D3212. GASKETS SHALL BE INSTALLED BY PIPE MANUFACTURER AND SHALL COMPLY WITH ASTM F477.
4. UNDERDRAIN PIPE SHALL BE PERFORATED POLYVINYL CHLORIDE PIPE IN ACCORDANCE WITH ASTM F758. FILTER FABRIC UNDERDRAIN SOCK SHALL BE TYPE D-3 IN ACCORDANCE WITH AUTHORITY HAVING JURISDICTION SPECIFICATIONS.
5. ALL PIPE JOINTS SHALL BE WRAPPED WITH FILTER FABRIC. FILTER FABRIC SHALL BE IN ACCORDANCE WITH AUTHORITY HAVING JURISDICTION SPECIFICATIONS, TYPE D-3, A.O.S. 70-100. INSTALL IN ACCORDANCE WITH AUTHORITY HAVING JURISDICTION SPECIFICATIONS. PROVIDE MINIMUM 12" OVERLAP.
6. INSTALL POLYETHYLENE PIPE IN ACCORDANCE WITH ASTM D2321. BACKFILL AND COMPACT EVENLY ON EACH SIDE TO PREVENT DISPLACEMENT. MINIMUM COVER OVER POLYETHYLENE PIPE SHALL BE AS FOLLOWS: A) PIPE UNDER FLEXIBLE PAVEMENT, RIGID PAVEMENT, OR UNPAVED AREAS WHERE BEDDING IS SUITABLE SOILS AS DEFINED IN THE GENERAL NOTES: MINIMUM COVER SHALL BE 36 INCHES OR ONE PIPE DIAMETER, WHICHEVER IS GREATER; B) PIPE UNDER FLEXIBLE PAVEMENT, RIGID PAVEMENT, OR UNPAVED AREAS WHERE BEDDING IS MANUFACTURED AGGREGATES CLASS 1A OR 1B AS DEFINED IN ASTM D2321; MINIMUM COVER SHALL BE 30 INCHES OR ONE PIPE DIAMETER, WHICHEVER IS GREATER.
7. INSTALL UNDERDRAINS IN ACCORDANCE WITH AUTHORITY HAVING JURISDICTION SPECIFICATIONS. INSTALL CLEANOUTS AS SHOWN ON THE DRAWINGS.
8. PRIOR TO INSPECTIONS AND TESTING, CLEAN ALL INSTALLED LINES AND STRUCTURES.

PAVING, SIDEWALKS, AND CURBING

1. MATERIALS AND CONSTRUCTION METHODS FOR THE ROADWAY AND PAVING CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION STANDARD SPECIFICATIONS, LATEST EDITION.
2. SIDEWALKS ARE TO BE CONSTRUCTED IN THE AREAS AS SHOWN ON THE CONSTRUCTION PLANS. THE SIDEWALK SHALL BE CONSTRUCTED OF 4" OF CONCRETE WITH A 28-DAY COMPRESSION STRENGTH OF 3000 PSI. JOINTS SHALL BE EITHER TOoled OR SAW CUT AT A DISTANCE OF 10'. HANDICAPPED RAMPS SHALL BE PROVIDED AT ALL INTERSECTIONS AND SHALL BE IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION ADOPTED BUILDING CODE, LATEST EDITION.
4. CURBING SHALL BE CONSTRUCTED WHERE NOTED ON THE CONSTRUCTION PLANS. CONCRETE FOR CURBS SHALL BE AUTHORITY HAVING JURISDICTION CLASS 1" CONCRETE WITH A 28-DAY COMPRESSION STRENGTH OF 3000 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 AUTHORITY HAVING JURISDICTION SPECIFICATIONS (LATEST EDITION) AND DETAILS PROVIDED ON THE CONSTRUCTION PLANS.
5. FIELD COMPACTION DENSITY, STABILITY, AND THICKNESS TESTING FREQUENCIES OF SUB-BASE, BASE, AND ASPHALT SHALL BE TESTED ONCE EVERY 300 LINEAR FEET OF PAVING PER 24-FT WIDE STRIP, STAGGERED LEFT, CENTER AND RIGHT OF CENTERLINE. WHERE LESS THAN 300 LINEAR FEET OF SUB-BASE, BASE, AND ASPHALT IS PLACED IN ONE DAY, PROVIDE MIN. OF ONE TEST FOR EACH PER DAY'S CONSTRUCTION AT A LOCATION DESIGNATED BY THE ENGINEER. ASPHALT EXTRACTION GRADATION SHALL BE TESTED FROM GRAB SAMPLES COLLECTED ONCE EVERY 1800 SQUARE YARDS OF ASPHALT DELIVERED TO THE SITE (OR A MINIMUM OF ONCE PER DAY).

PAVING TIMING REQUIREMENTS

1. INSTALL SUBGRADE AND BASE COURSE MATERIALS WITHIN 48 HOURS OF THE REMOVAL/OPEN CUTTING OF EXISTING PAVEMENT CONSISTING OF STREETS, DRIVEWAYS, OR SIDEWALK. INSTALL FINAL SURFACE COURSES WITHIN 14 DAYS AFTER REMOVAL OF EXISTING PAVEMENT.
2. AREAS TO RECEIVE ASPHALT SHALL RECEIVE EROSION CONTROL MEASURES NO LATER THAN 48 HOURS AFTER ACCEPTANCE OF BASE COURSE. TEMPORARY EROSION CONTROL CONSISTS OF PLACEMENT OF A BITUMINOUS PRIME COAT AND SANDING THE SURFACE. PERMANENT EROSION CONTROL CONSISTS OF PLACEMENT OF THE STRUCTURAL COURSE.
3. AREAS TO RECEIVE CONCRETE PAVING SHALL BE EITHER PROTECTED WITH A LAYER OF COARSE AGGREGATE MATERIAL OR SHALL BE PAVED WITHIN 48 HOURS OF ACCEPTANCE OF THE SUBGRADE.

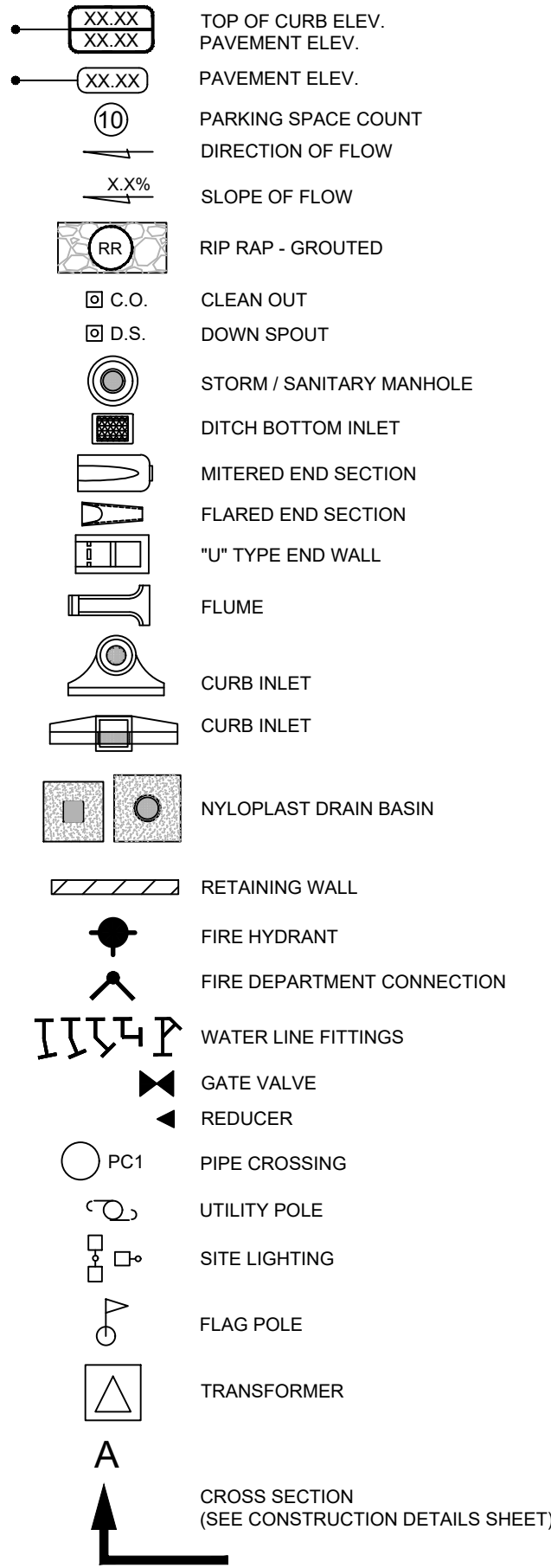
SIGNS AND PAVEMENT MARKINGS

1. ALL SIGNS AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND THE LATEST IMPLEMENTED EDITION OF FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS.
2. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC WITH RAISED PAVEMENT MARKERS (TYPE 911 - 4" x 4"). RAISED PAVEMENT MARKERS ARE TO BE INSTALLED IN ACCORDANCE WITH THESE PLANS AND ALDOT INDEX NO.70302.
3. PARKING STALL PAVEMENT MARKINGS SHALL BE PAINTED. PAINT SHALL MEET THE REQUIREMENTS OF ADOT SPECIFICATION SECTION 620.2 (MUTCD SECTION 3B.19), NON-REFLECTIVE WHITE TRAFFIC PAINT, TWO COATS.
4. ALL ROADWAY TRAFFIC SIGNS SHALL BE MANUFACTURED USING HIGH INTENSITY RETROREFLECTIVE MATERIALS. THE BACK OF ALL FINISHED PANELS SHALL BE STENCILED WITH THE DATE OF FABRICATION, THE FABRICATOR'S INITIALS, AND THE NAME OF THE SHEETING IN THREE-INCH LETTERS.
5. INTERNAL SITE TRAFFIC SIGNS ARE NOT REQUIRED TO BE RETROREFLECTIVE.
6. THE CONTRACTOR SHALL VERIFY THE REQUIRED LENGTH OF THE SIGN COLUMN SUPPORTS IN THE FIELD PRIOR TO FABRICATION.
7. CONTRACTOR SHALL PROVIDE AND INSTALL ALL SIGNS, BASES, ANCHOR BOLTS, CONDUITS, WIRING, ETC.
8. ALL PAVEMENT MARKINGS REQUIRE LAYOUT APPROVAL IN THE FIELD BY THE ENGINEER PRIOR TO INSTALLATION.
9. PRIOR TO FINAL PAVEMENT MARKING INSTALLATION, A TWO WEEK CURE TIME OF THE ASPHALT IS REQUIRED.

MADISON COUNTY / CITY NOTES

1. THE PANDA 2300 BUILDING WILL BE A NON-SPRINKLER BUILDING.
2. CONSTRUCTION TYPE: VB
3. ALL DRAINAGE DITCHES ARE TO BE CENTERED ON PROPERTY LINES UNLESS OTHERWISE SHOWN.
4. ALL UTILITIES SHALL BE UNDERGROUND.
5. IF ADVERSE CONDITIONS ARE UNCOVERED DURING CONSTRUCTION, THE CITY ENGINEER MAY REQUIRE MODIFICATION OF THESE PLANS TO THE EXTENT NECESSARY TO ASSURE COMPLIANCE WITH THE CITY'S CONSTRUCTION SPECIFICATIONS MANUAL.
6. ALL LOTS SHALL BE GRADED SO THAT RUN-OFF WILL BE DIRECTED TO THE STREET OR TO DRAINAGE WAYS IN A DEDICATED EASEMENT.
7. SETBACKS ARE GOVERNED BY THE LATEST EDITION OF THE MADISON ZONING ORDINANCE.
8. ANY SIGNAGE REQUIRES SEPARATE REVIEW, APPROVAL, AND PERMITTING.
9. IF APPROVAL FROM ANY STATE OR FEDERAL REGULATORY AGENCY IS REQUIRED TO PERFORM WORK ON THIS PROJECT, A COPY OF EACH PERMIT REQUIRED SHALL BE DELIVERED TO THE CITY OF MADISON ENGINEERING DEPARTMENT PRIOR TO APPROVAL OF SAID PLANS.
10. CONTRACTOR IS REQUIRED TO SCHEDULE A PRE-CONSTRUCTION MEETING WITH ENGINEERING INSPECTOR BEFORE COMMENCEMENT OF WORK. CALL 256-797-8025 FOR SCHEDULING OR GO TO WWW.MADISONGA.GOV/INDEX.ASPX?nid=126 (PRE-CONSTRUCTION REQUIREMENTS) FOR MORE INFORMATION.
11. THE ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL, AND STORMWATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS, VOL. 1 AND VOL. 2, LATEST EDITION AND ANY REVISION THEREOF, ARE HEREBY MADE A PART OF THESE PLANS.
12. THE CITY OF MADISON CONSTRUCTION SPECIFICATIONS MANUAL FOR PUBLIC IMPROVEMENTS', LATEST EDITION AND ANY REVISION THEREOF, ARE HEREBY MADE A PART OF THESE PLANS.

SYMBOLS:

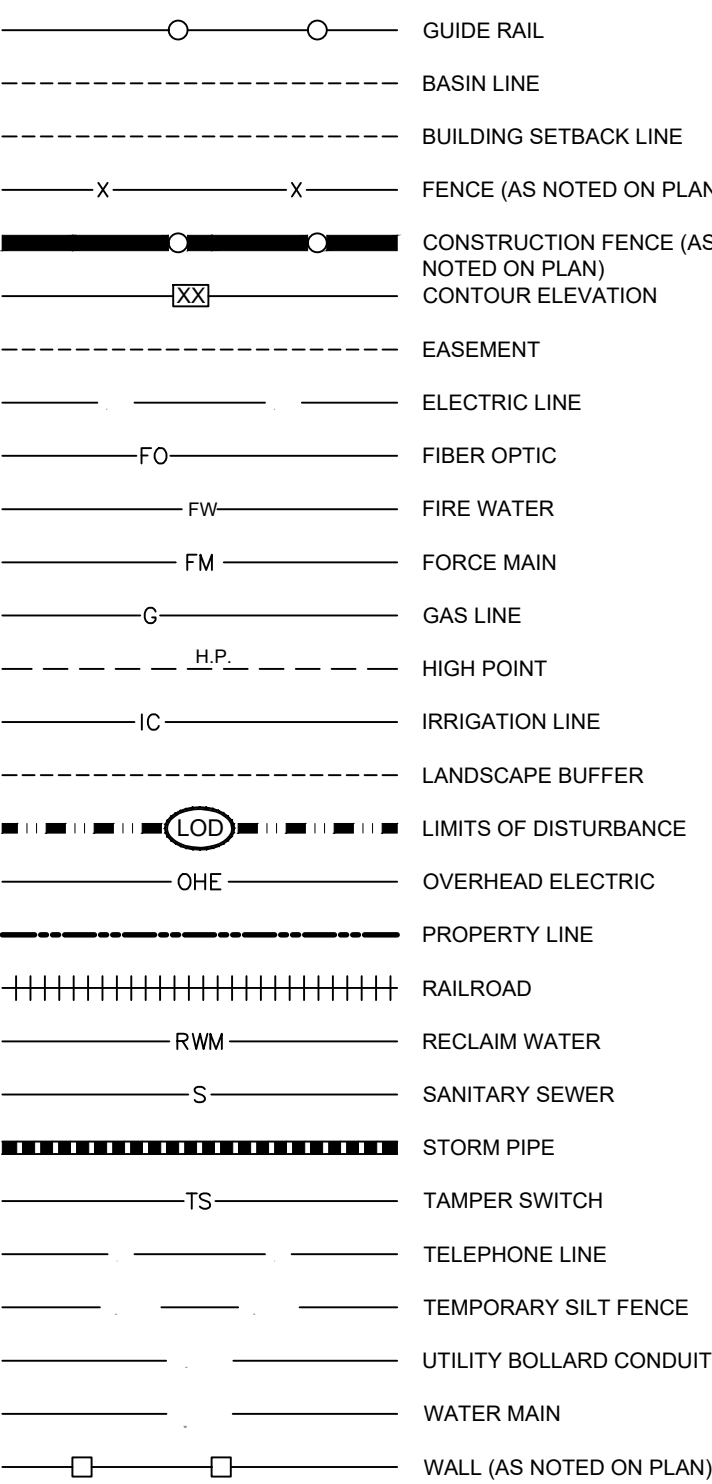


PAINT STRIPING

ABBREVIATIONS:

- SWSL - SINGLE WHITE SOLID LINE
SYSL - SINGLE YELLOW SOLID LINE
DYSL - DOUBLE YELLOW SOLID LINE
SWDL - SINGLE WHITE DASHED LINE
SBYL - SINGLE BROKEN YELLOW LINE

LINE TYPES:



NOTE:
ITEMS SHOWN DASHED / SCREENED
REPRESENT EXISTING CONDITIONS. ITEMS
SHOWN SOLID / BOLD REPRESENT
PROPOSED CONDITIONS.

ABBREVIATIONS:

- A/C - AIR CONDITIONER
APPROX - APPROXIMATE
ASPH - ASPHALT
AVG - AVERAGE
BFP - BACK FLOW PREVENTER
BLK - BLOCK
BLDG - BUILDING
BOC - BACK OF CURB
BOW - BACK OF WALL
C & G - CURB & GUTTER
CE - CONSTRUCTION ENTRANCE
CL - CENTERLINE
CMP - CORRUGATED METAL PIPE
CO - CLEAN OUT
CONC - CONCRETE
DEPT - DEPARTMENT
DS - DOWN SPOUT
ELEC - ELECTRIC
EM - ELECTRICAL METER
ELEV - ELEVATION
EOP - EDGE OF PAVEMENT
FDC - FIRE DEPARTMENT CONNECTION
ADOT - ADOT DEPARTMENT OF TRANSPORTATION
FF - FINISH FLOOR
FG - FINISH GRADE
FH - FIRE HYDRANT
FM - FORCE MAIN
FOC - FACE OF CURB
GOVT - GOVERNMENT
HB - HOSE BIB
HC - ADA ACCESSIBLE
HOPE - HIGH DENSITY POLYETHYLENE PIPE
INV - INVERT
IRR - IRRIGATION
ME - MATCH EXISTING ELEVATION
MES - MITERED END SECTION
MH - MANHOLE
PVC - POLYVINYL CHLORIDE PIPE
P/MT - PAVEMENT
R - RADIUS
RCP - REINFORCED CONCRETE PIPE
REV - REVISION
R/W - RIGHT-OF-WAY
SF - SQUARE FEET
S/W - SIDEWALK
TOB - TOP OF BANK
TOE - TOE OF SLOPE
TW - TOP OF WALL
TYP - TYPICAL
UNK - UNKNOWN
UTL - UNDERGROUND TELEPHONE LINES
W/ - WITH
WV - WATER VALVE

SIGNS:

- (B) - BUS STOP (R7-7)
(DNE) - DO NOT ENTER (R5-1)
(FL) - NO PARKING - FIRE LANE (R7-94)
(HD) - HANDICAP (FTP-25)
(KR) - KEEP RIGHT (R4-7A)
(KL) - KEEP LEFT (R4-8A)
(LTO) - LEFT TURN ONLY (R3-5L)
(ME) - MEDIAN (R4-7) (R4-8)
(ND) - NO DUMPING
(NL) - NO LEFT TURN (R3-2)
(NLI) - NO LITTERING
(NOR) - NO RIGHT TURN (R3-1)
(NOT) - NO TRUCKS (R5-2A)
(NP) - NO PARKING (R7-1)
(W) - ONE WAY (R6-1L) (R6-1R)
(PE) - PEDESTRIAN CROSSING (W11-2)
(RTO) - RIGHT TURN ONLY (R3-5R)
(R1) - ROW NUMBER
(SL) - SPEED LIMIT (R2-X)
(ST) - STOP (R1-1)
(TZ) - TOW AWAY ZONE (R7-201)
(TE) - TRUCK ENTRANCE
(WL) - WEIGHT LIMIT (R12-5)
(WW) - WRONG WAY (R5-1A)
(Y) - YIELD (R1-2)
(DT) - RESERVED DRIVE-THRU PARKING



PANDA EXPRESS, INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

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REVISIONS:

△	PER CITY COMMENTS	8/23/2021
△	OWNER REVISION	01/14/2022

ISSUE DATE:

7/19/2021 PERMIT SET
11/08/2021 BID SET
01/14/2022 BID SET REISSUE

DRAWN BY: K. Patterson

PANDA PROJECT #: D8433 STORE 3555

CIVIL PROJECT #: P7363



Jason L. Toole, State of Alabama Professional Engineer, License No. 34197 This item has been digitally signed and sealed by Jason L. Toole, P.E. on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

JASON L. TOOLE, P.E.
AL, P.E. No. 34197

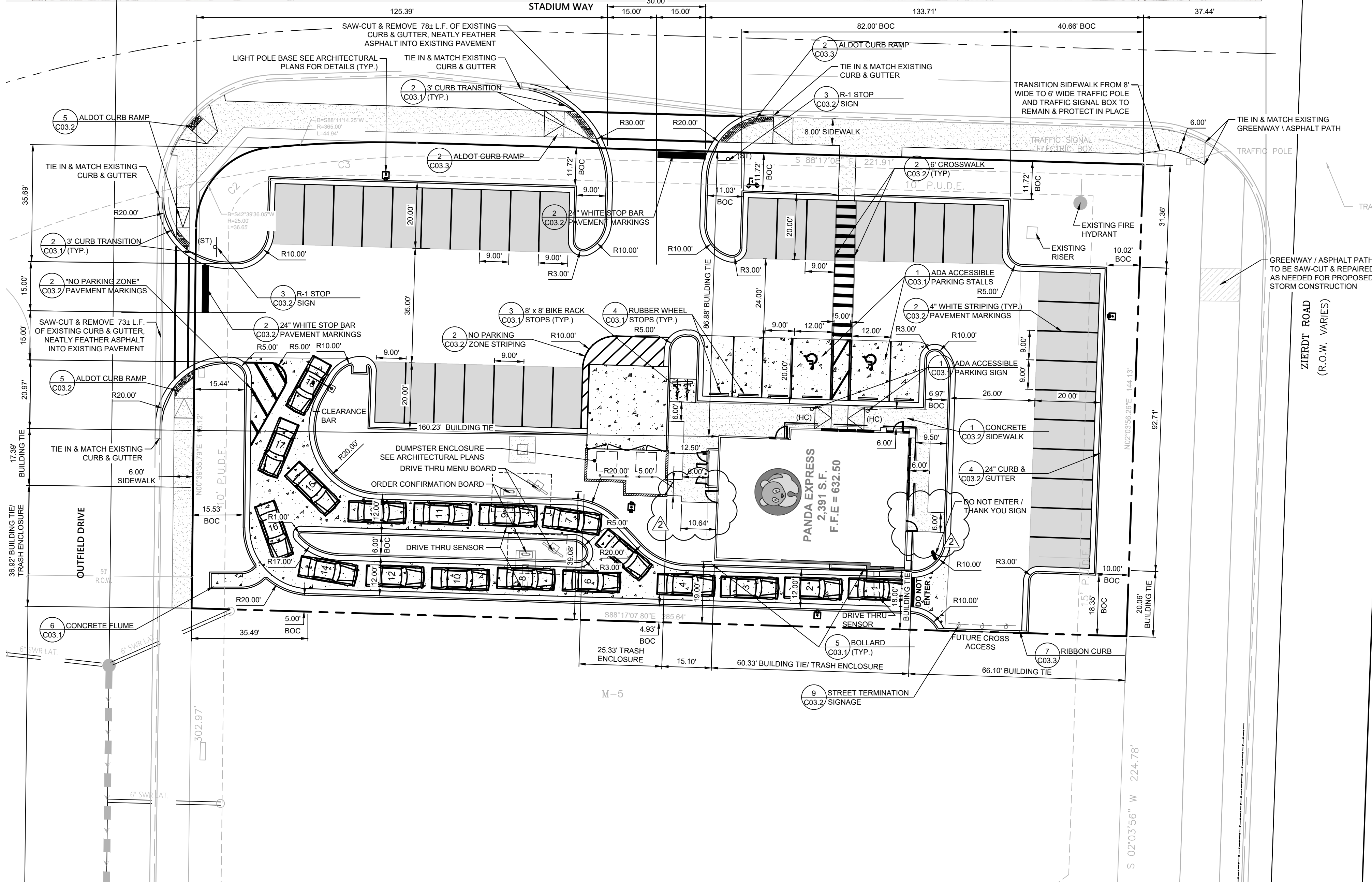
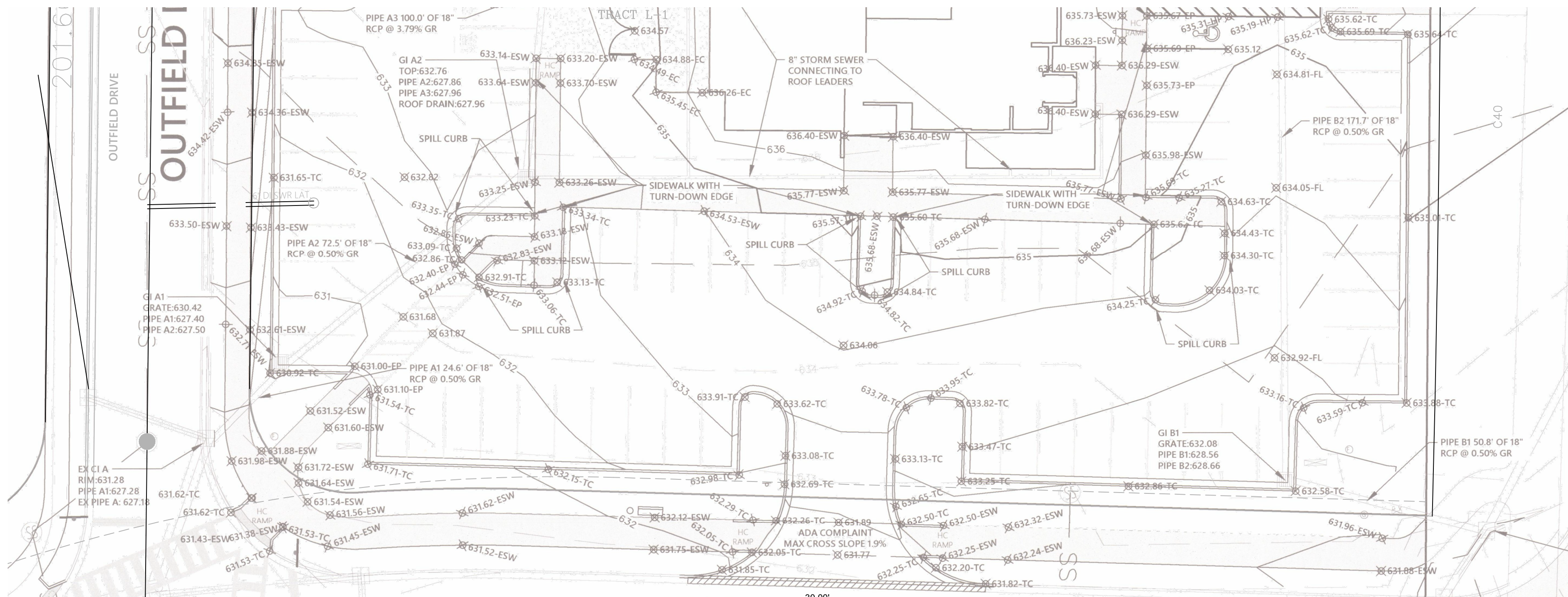
PANDA EXPRESS

TRUE WARM & WELCOME 2300
101 STADIUM WAY
MADISON, ALABAMA 35758

GENERAL NOTES
LEGEND & SYMBOLS

C01.2

TRUE WARM & WELCOME 2300
D8433



SITE NOTES

- CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING IMPROVEMENTS AND TREES AND OTHER DEBRIS WITHIN THE LIMITS OF WORK FROM THE SITE. BURIAL OF TREES AND OTHER DEBRIS SHALL NOT BE ALLOWED.
- ALL MATERIAL SHALL BE NEW, UNLESS USED OR SALVAGED MATERIALS ARE AUTHORIZED BY THE OWNER PRIOR TO USE.
- CONTRACTOR TO PROVIDE CONCRETE PAVING BETWEEN CASE OF BUILDING AND BACK OF CURB ALONG DRIVE-THRU LANE AND ENSURE POSITIVE DRAINAGE AWAY FROM BUILDING.
- SIDEWALKS SHALL BE 8' WIDE MINIMUM AT THE REAR. CURBING IS REQUIRED AT PARKING BAY ABUTTING THE BUILDING. DOUBLE WINGED RAMP WITH CURBING DESIRED AT THE FLUSH CONNECTION OF THE ADA SPOTS.
- BIKE RACKS ARE TO BE SHOWN ONLY IF REQUIRED BY JURISDICTION, IF SO, THEN A 3 PEAKED BLACK BIKE RACK SHALL BE USED.
- ALL STRIPING SHALL BE WHITE STRIPING APART FROM ADA.
- RUBBER WHEELSTOPS, NOT CONCRETE, ARE STANDARD. BOLLARDS SHALL BE PLACED AT BUILDING DT LANE BUILDING CORNER AND AT DT WINDOW.
- BOLLARDS SHALL HAVE THERMOPLASTIC COVER.
- IF APPROVAL FROM ANY STATE OR FEDERAL REGULATORY AGENCY IS REQUIRED TO PERFORM WORK ON THIS PROJECT, A COPY OF EACH PERMIT REQUIRED SHALL BE DELIVERED TO THE CITY OF MADISON ENGINEERING DEPARTMENT PRIOR TO APPROVAL OF SAID PLANS.
- CONTRACTOR IS REQUIRED TO SCHEDULE A PRE-CONSTRUCTION MEETING WITH ENGINEERING INSPECTOR BEFORE COMMENCEMENT OF WORK. CALL 256-797-8025 FOR SCHEDULING OR GO TO WWW.MADISONAL.GOV/INDEX.ASPX?NID=126 (PRE-CONSTRUCTION REQUIREMENTS) FOR MORE INFORMATION.
- THE ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL, AND STORMWATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS, VOL. 1 AND VOL. 2, LATEST EDITION AND ANY REVISION THEREOF, ARE HEREBY MADE A PART OF THESE PLANS.
- THE CITY OF MADISON CONSTRUCTION SPECIFICATIONS MANUAL FOR PUBLIC IMPROVEMENTS, LATEST EDITION AND ANY REVISION THEREOF, ARE HEREBY MADE A PART OF THESE PLANS.
- ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.

PANDA EXPRESS STANDARD NOTES

- THE GEOTECHNICAL INVESTIGATION PREPARED BY TERRACON, DATED - AND ANY SUBSEQUENT ADDENDUMS IS CONSIDERED PART OF THE CONTRACT DOCUMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE REPORT'S RECOMMENDATIONS AND FINDINGS WITH THE OWNER, ENGINEER AND ARCHITECT PRIOR TO CONSTRUCTION. IMPLEMENTATION OF THE REPORT'S RECOMMENDATIONS MAY REQUIRE THE CONTRACTOR TO PERFORM ADDITIONAL WORK NOT SHOWN ON THE CIVIL PLANS INCLUDING BUT NOT LIMITED TO EXCAVATION, REMEDIATION, DEWATERING, COMPACTION ETC.
- CONTRACTOR SHALL COORDINATE AND VERIFY LOCATION OF ALL SIGNAGE WITH OWNER PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL COORDINATE AND ADJUST LOCATION OF LOOP DETECTORS TO AVOID UTILITY CONFLICTS PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL ENSURE 100% COVERAGE OF ALL LANDSCAPED AREAS WITHIN LIMITS OF WORK, INCLUDING POTENTIAL OFFSITE AREAS. COVERAGE SHALL INCLUDE BOTH LANDSCAPING AND IRRIGATION.

LEGEND

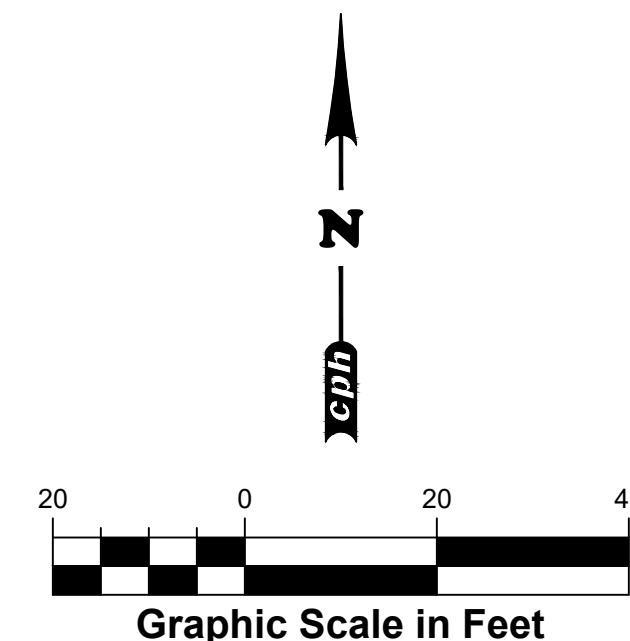
- CONCRETE PAVEMENT
- CONCRETE SIDEWALK
- LIGHT DUTY ASPHALT
- HEAVY DUTY ASPHALT
- (ST) STOP SIGN
- (HC) HANDICAP PARKING SPACE

SITE INFORMATION

JURISDICTION: CITY OF MADISON	
ZONING: (U) Urban Center District	
ADJOINING ZONING: (U) Urban Center District	
NORTH: (U) Urban Center District	
EAST: (U) Urban Center District	
SOUTH: (U) Urban Center District	
WEST: (U) Urban Center District	
REQUIRED BUILDING SETBACKS:	
FRONT: (S) - 25' L.	PROVIDED BUILDING SETBACKS:
SIDE: (N) - 15' L.	FRONT: (E) - 66' 10'
REAR: (W) - 20' L.	SIDE: (N) - 62' 7'
	REAR: (S) - 16' 0'
	REAR: (W) - 160' 23'
REQUIRED LANDSCAPE STRIPSETBACKS:	
FRONT: (S) - 25'	PROVIDED LANDSCAPE STRIPSETBACKS:
SIDE: (N) - 15'	FRONT: (E) - 25'
REAR: (W) - 20'	SIDE: (N) - 15'
	REAR: (S) - 16'
	REAR: (W) - 160'
REQUIRED PARKING:	
1 SPACE PER 100 S.F. OF GROSS FLOOR AREA	
100/2300 = 24 SPACES REQUIRED	
PROPOSED PARKING:	
REGULAR 40 (DIM) = 9' x 20'	
HANDICAP 2 (DIM) = 9' x 20'	
TOTAL = 42	
DRIVE ABLE WIDTH: VARIES	
24' MINIMUM	
REQUIRED BICYCLE PARKING:	
1 SPACE PER 25 VEHICLE PARKING SPACE = 1.68	
1 BIKE RACK & 2 SPACES PROVIDED	
SITE AREA CALCULATIONS:	
SITE: 0.34 AC.	
PERVIOUS AREA: 0.24 AC.	
IMPERVIOUS AREA: 0.10 AC.	
DISTURBED AREA: 1.02 AC.	
LOT COVERAGE INFORMATION:	
TOTAL LOT: 41,187 SF	
BUILDING: 2,391 SF = 5.8%	
PARKING: 26,372 SF = 63.5%	
BUILDING & PARKING: 28,763 SF = 70.2%	
OPEN SPACE: 11,924 SF = 29.2%	
AREAS REFERENCE PANDA LOT ONLY & DOES NOT INCLUDE CONNECTOR ROADS.	
FLOOD HAZARD: X	
FIRM MAP NO. 13080C0307P DATED OCTOBER 2, 2014	
EXISTING INFORMATION (INCLUDE SOURCE OF BASE INFORMATION WITH REFERENCE)	
SITE LIGHTING: PHOTOMETRICS DESIGNED BY OTHERS. POLE LOCATIONS ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY FINAL LOCATION OF POLES WITH PHOTOMETRIC PLAN ON SHEET 11P.1 AND OWNER PRIOR TO CONSTRUCTION.	

24 HOUR CONTACT:
PANDA PM

JOE CELENTO
(912) 272-4811



PANDA EXPRESS, INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

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REVISIONS:

	PER CITY COMMENTS	8/23/2021
	OWNER REVISION	01/14/2022

ISSUE DATE:

7/19/2021 PERMIT SET
11/08/2021 BID SET
01/14/2022 BID SET REISSUE

DRAWN BY: K. Patterson

PANDA PROJECT #: D8433 STORE 3555

CIVIL PROJECT #: P7363



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JASON L. TOOLE, P.E.
AL. P.E. No. 34197

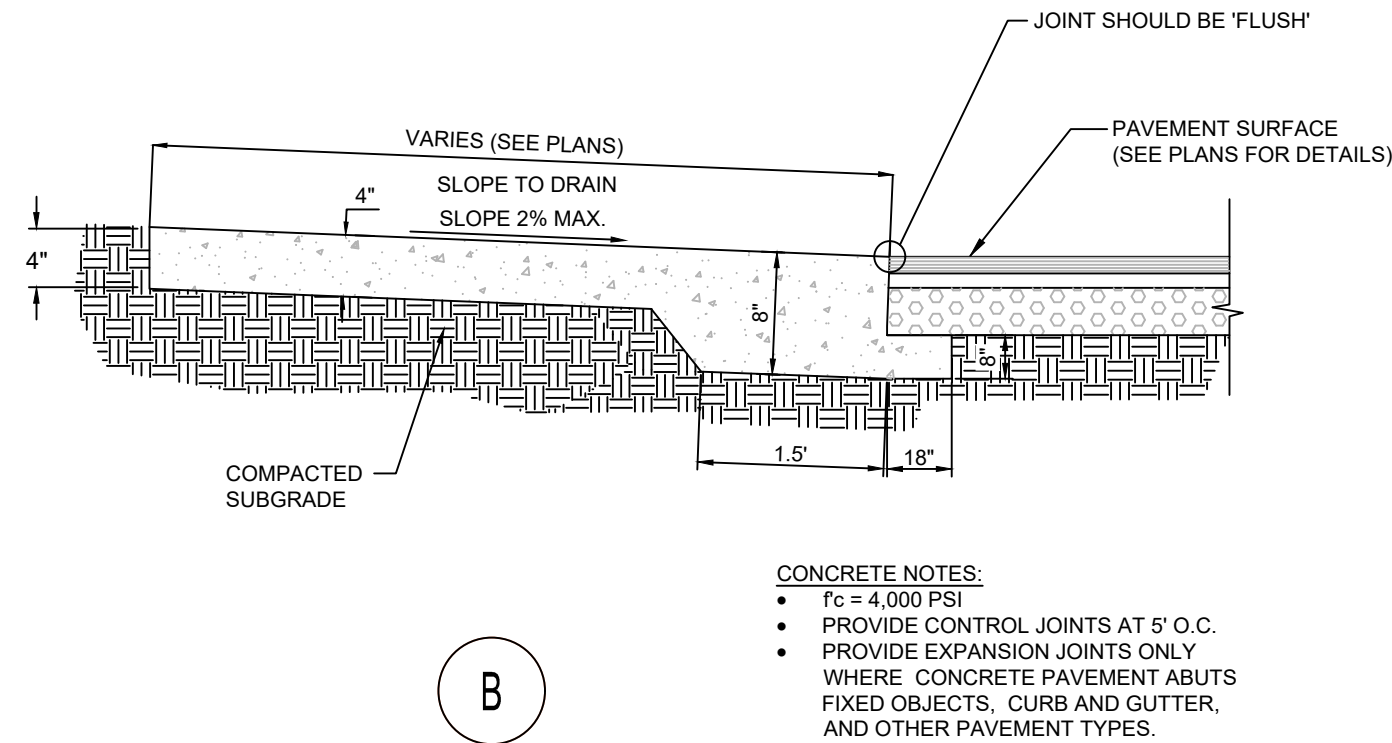
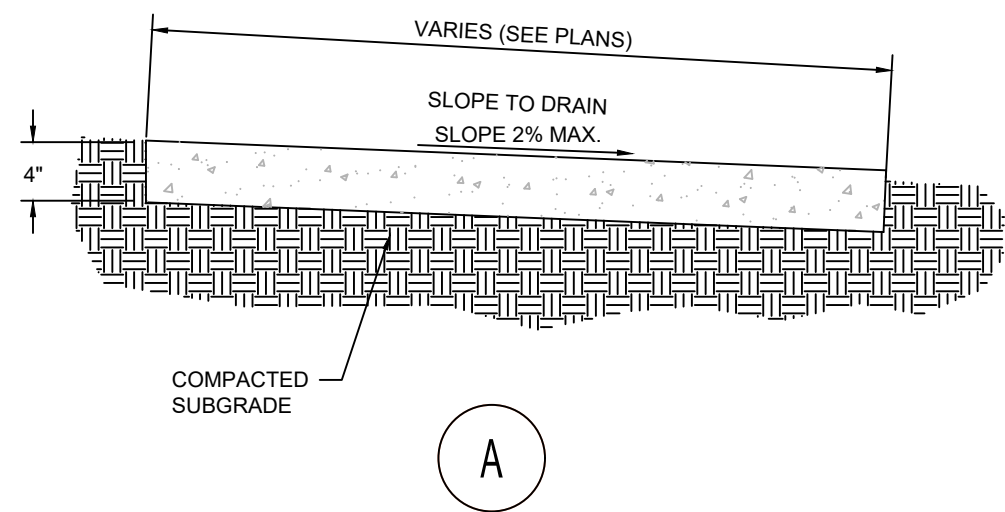
PANDA EXPRESS

TRUE WARM & WELCOME 2300
101 STADIUM WAY
MADISON, ALABAMA 35758

SITE PLAN

C03.0

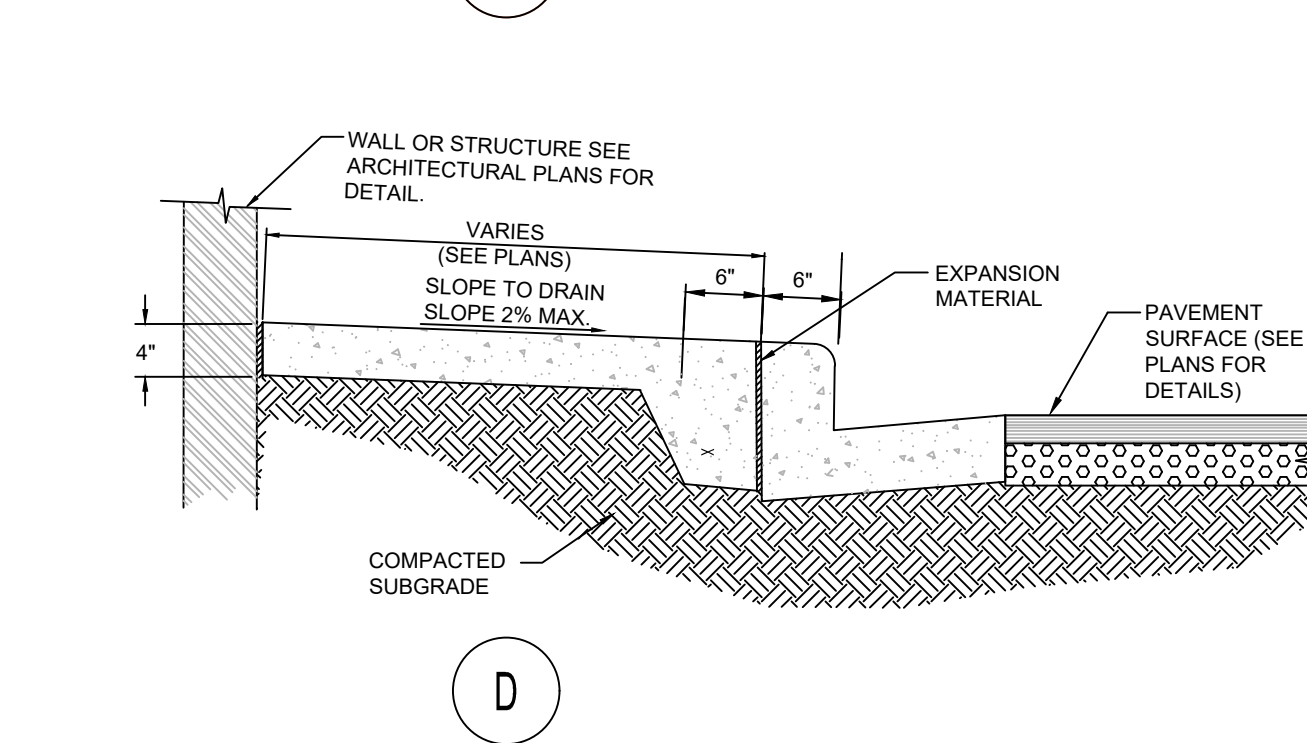
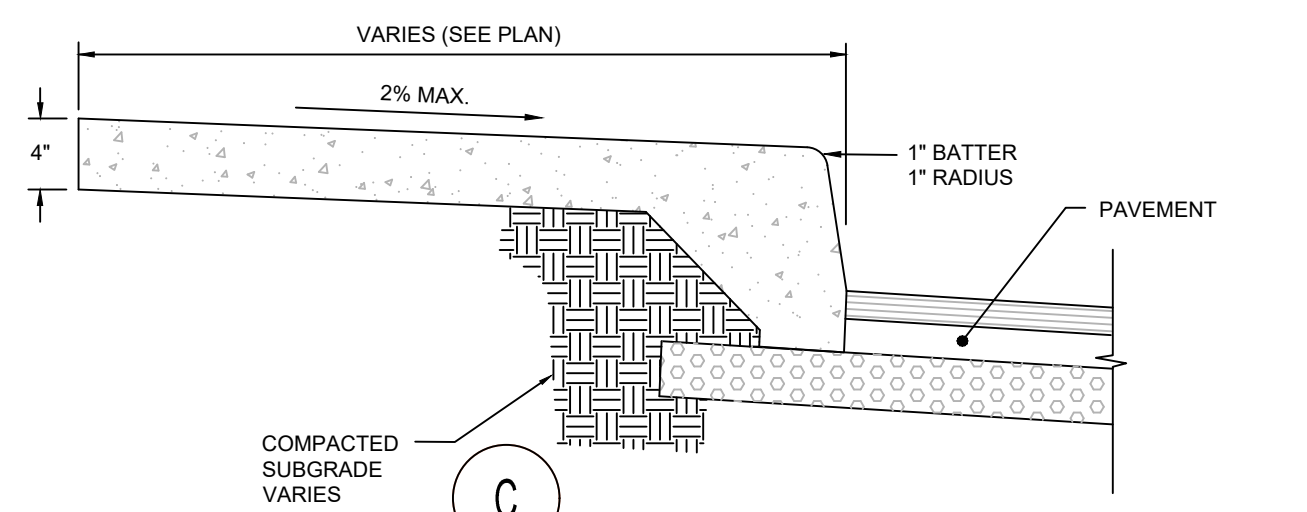
TRUE WARM & WELCOME 2300
D8433



- CONCRETE NOTES:**
- $f_c = 4,000$ PSI
 - PROVIDE CONTROL JOINTS AT 5' O.C.
 - PROVIDE EXPANSION JOINTS ONLY WHERE CONCRETE PAVEMENT ABUTS FIXED OBJECTS, CURB AND GUTTER, AND OTHER PAVEMENT TYPES.

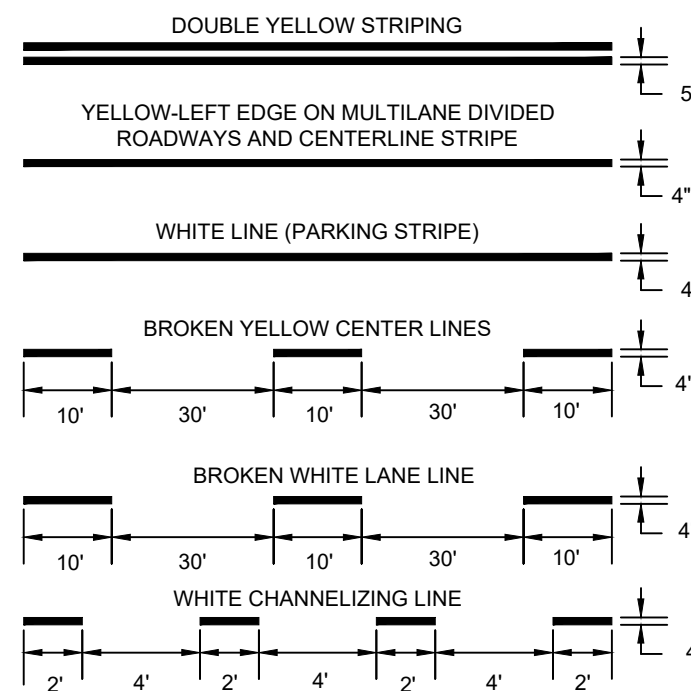
1 CONCRETE SIDEWALK

N.T.S.



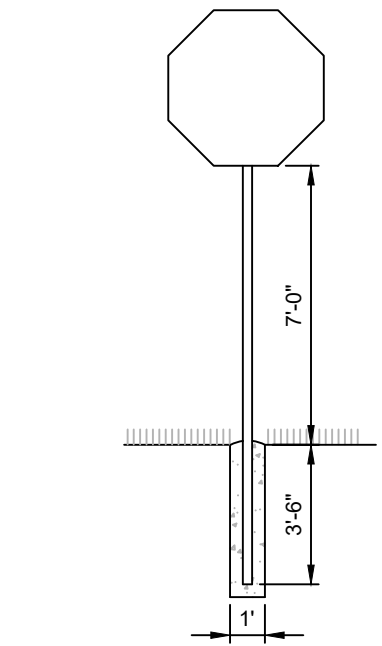
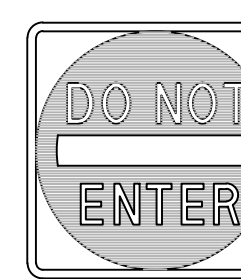
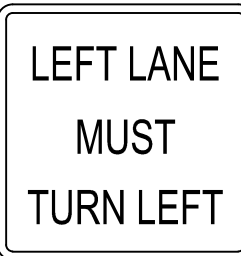
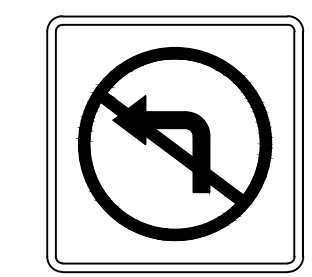
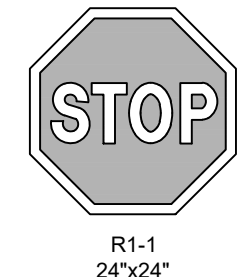
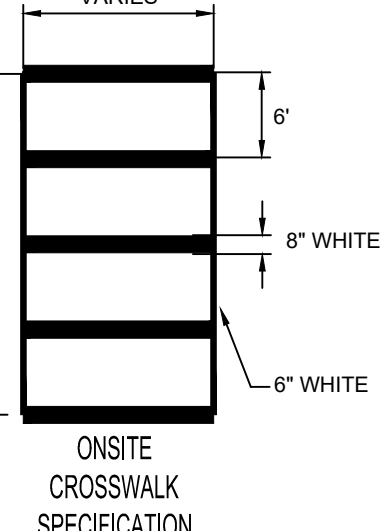
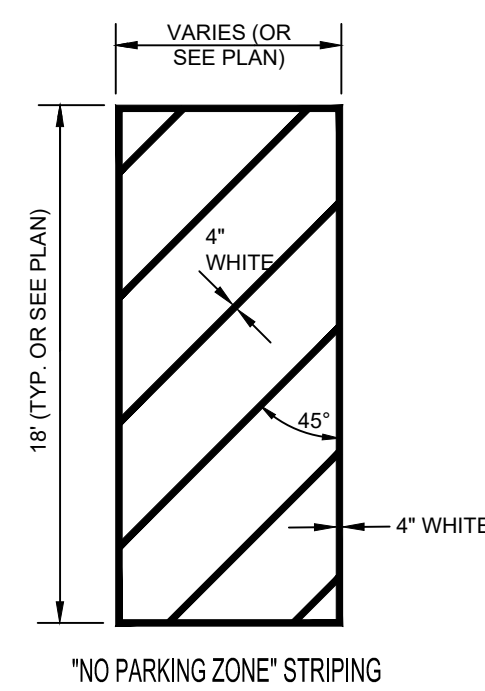
2 PAVEMENT STRIPING AND MARKING

N.T.S.



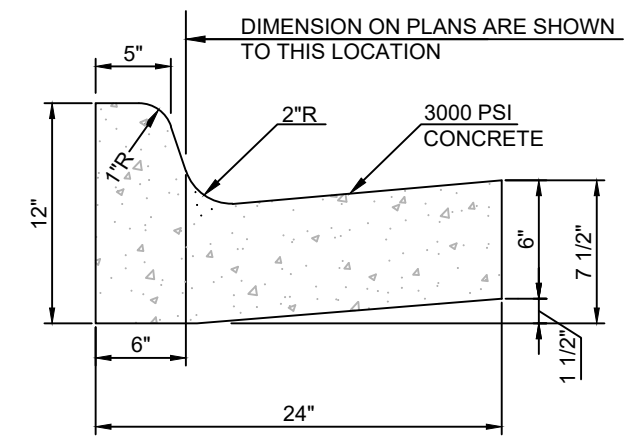
LINE SPECIFICATIONS

ALL ON-SITE STRIPING SHALL BE WHITE, APART FROM ADA BLUE STRIPING, UNLESS OTHERWISE NOTED.

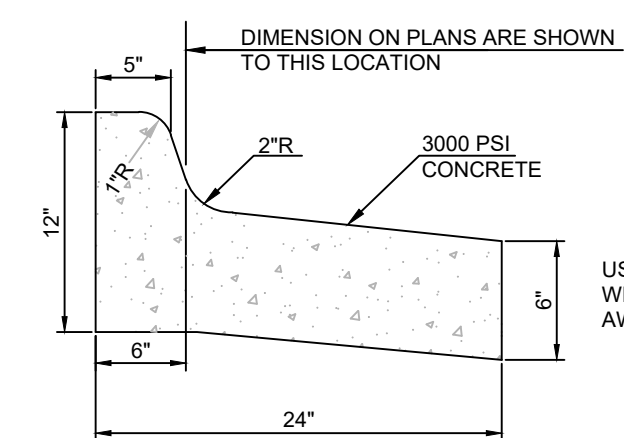


3 SITE SIGNAGE

N.T.S.



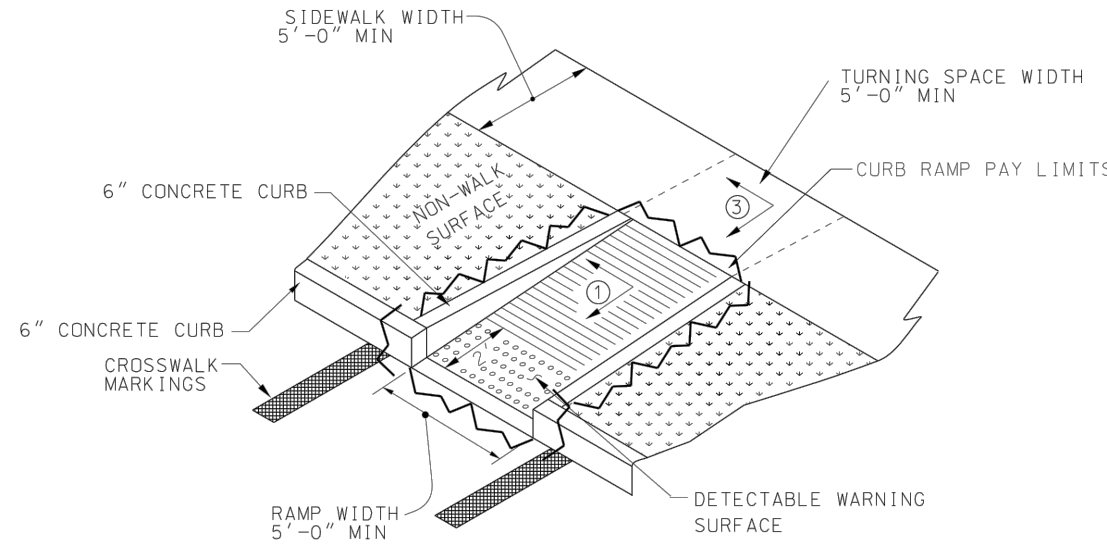
NORMAL CURB & GUTTER



REVERSE CURB & GUTTER

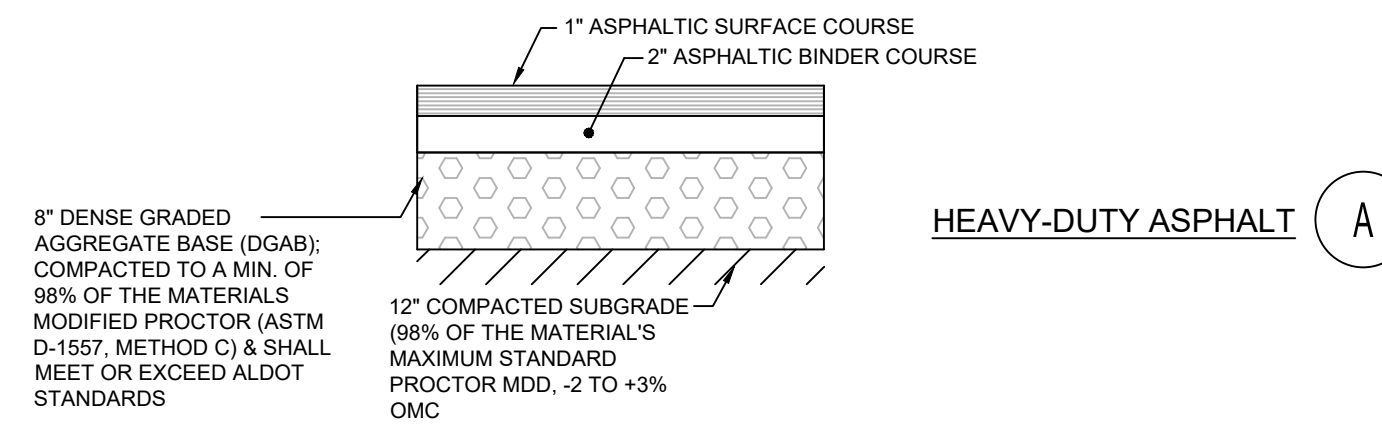
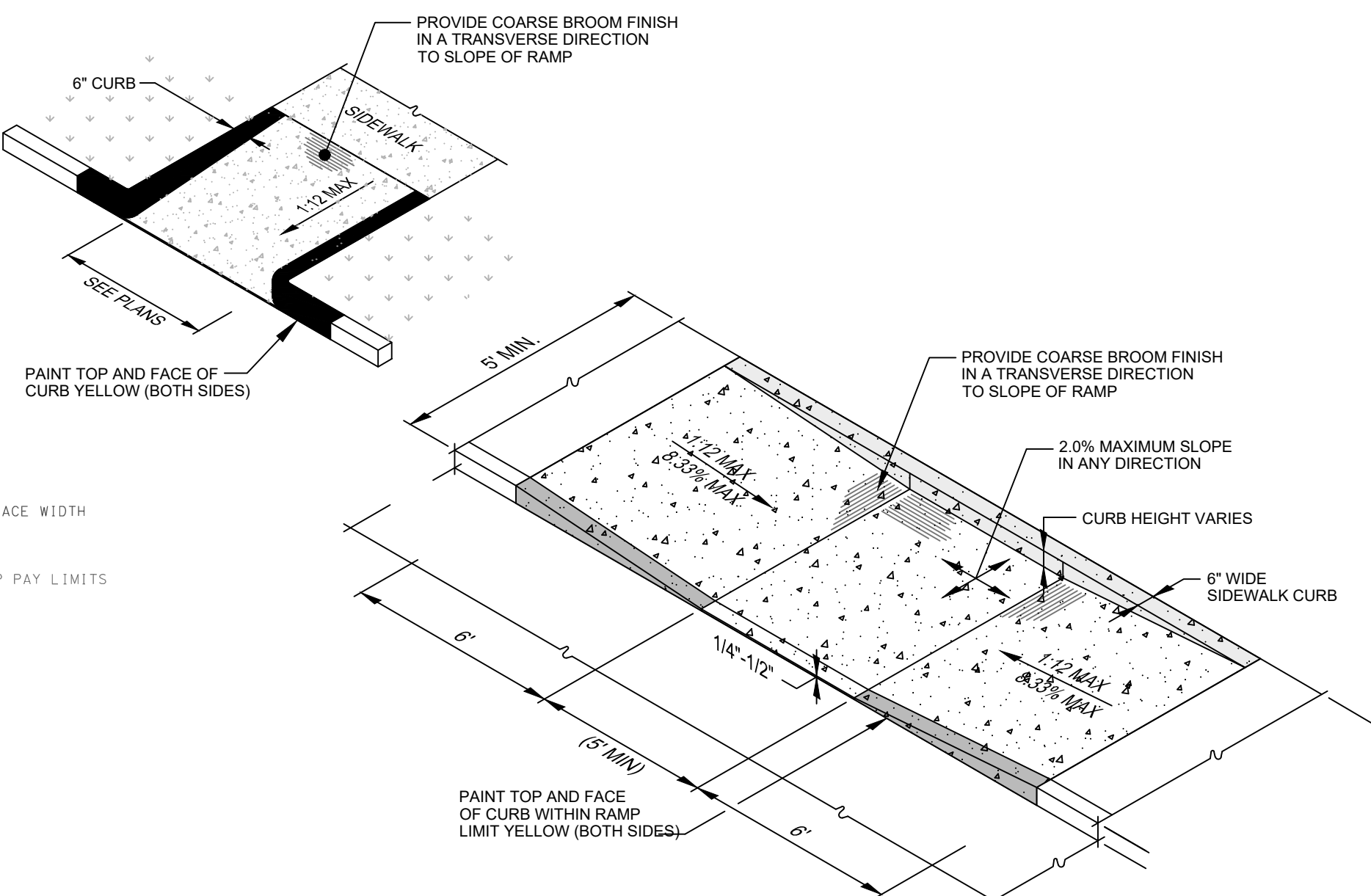
24" CURB & GUTTER

N.T.S.

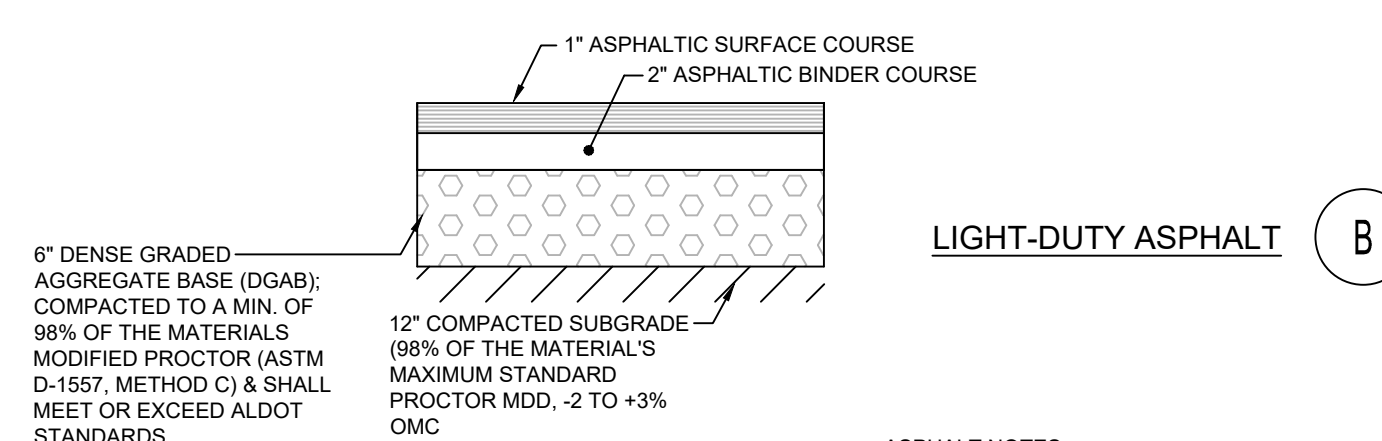


CURB RAMP

N.T.S.



HEAVY-DUTY ASPHALT

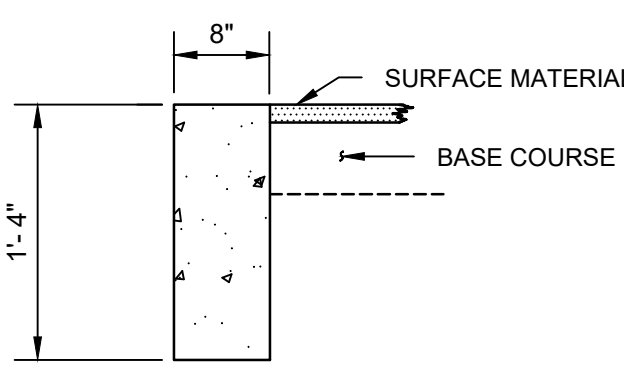


LIGHT-DUTY ASPHALT

- ASPHALT NOTES:**
- THE ASPHALT SURFACE COURSE SHOULD CONFORM TO THE MOST RECENT EDITION OF THE ALABAMA DEPARTMENT OF TRANSPORTATION (ALDOT) STANDARD SPECIFICATION FOR HIGHWAY CONSTRUCTION, FOR CURRENT ALDOT SURFACES AND SUPERPAVE MIXES.
 - THE BASE COURSE SHOULD CONFORM TO THE ALDOT STANDARDS FOR BASE COURSE COMPACTED TO 98 PERCENT OF THE MODIFIED PROCTOR (ASTM D-1557) MAXIMUM DRY DENSITY.
 - TACK COAT SHOULD BE PROVIDED ATOP EACH PAVEMENT SECTION.
 - SEE GEO REPORT FOR ADDITIONAL DETAILS

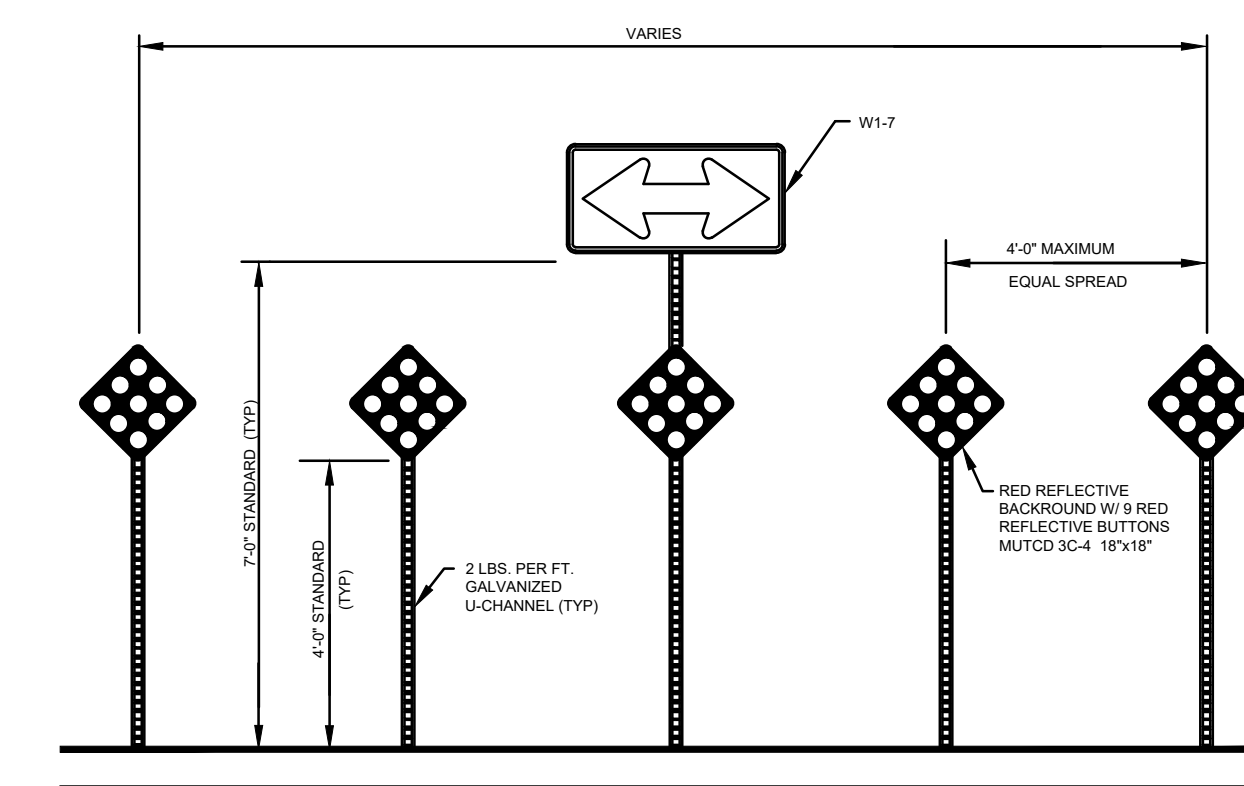
PAVEMENT SECTION

N.T.S.



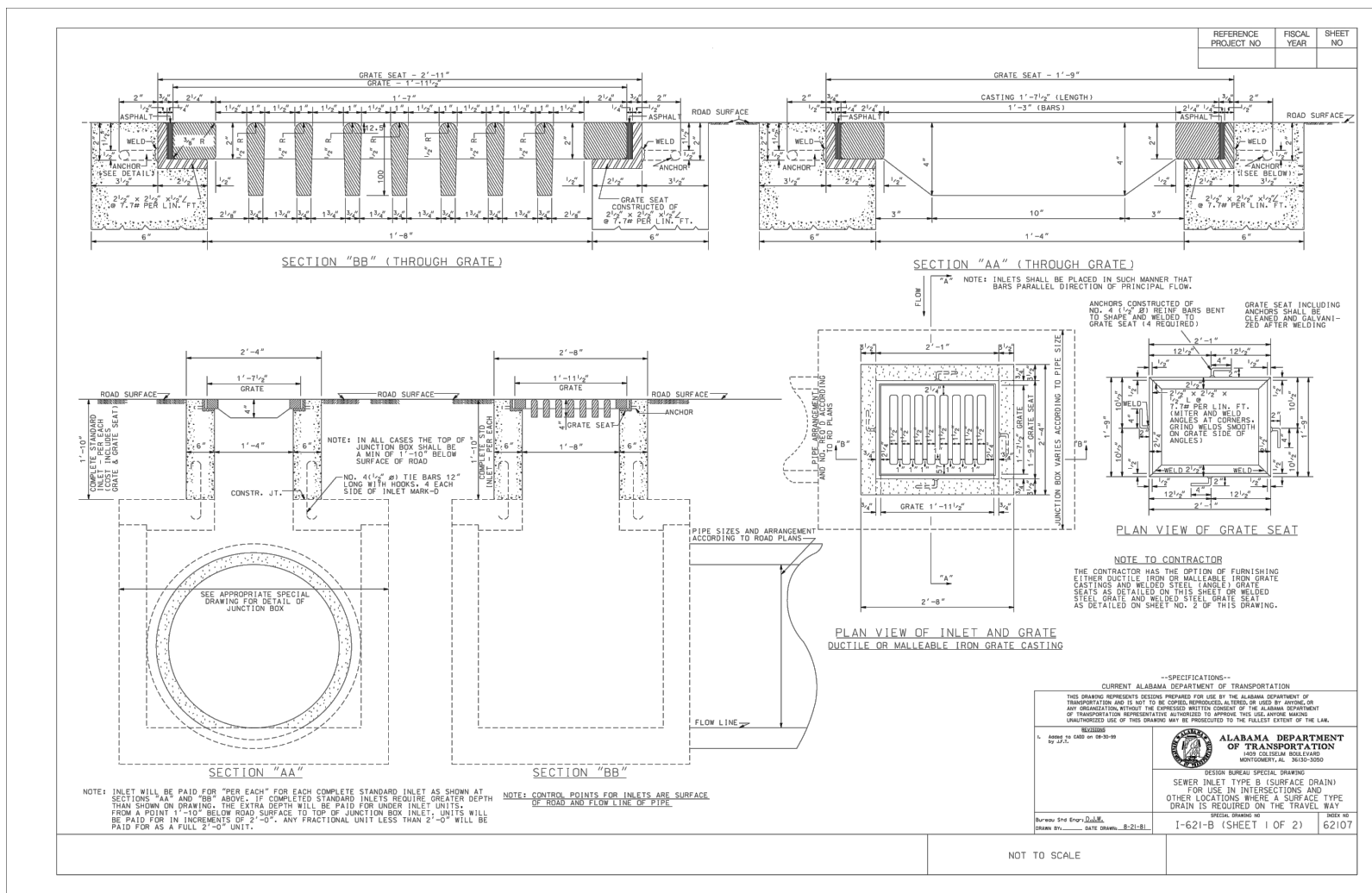
RIBBON CURB

N.T.S.



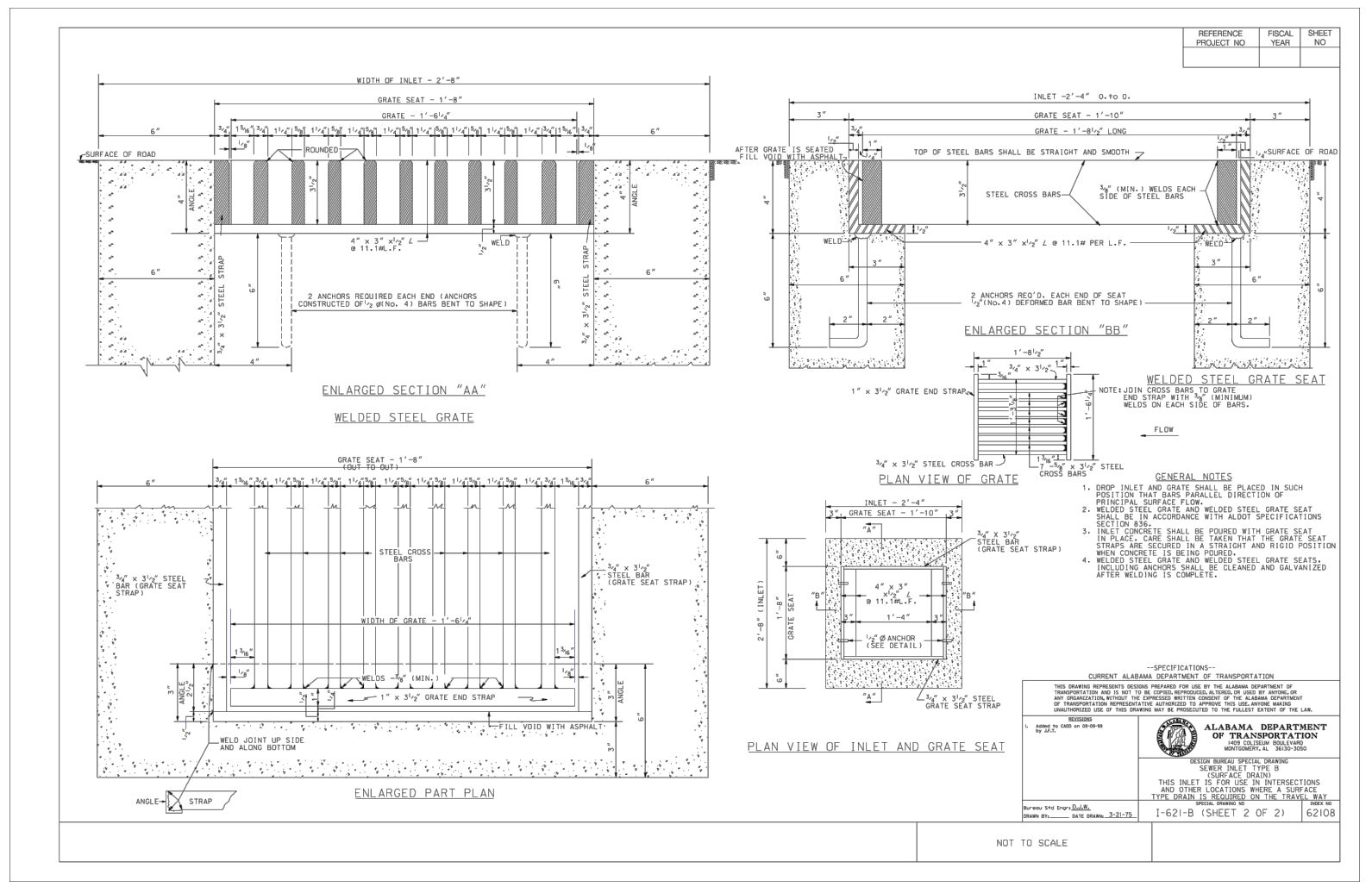
STREET TERMINATION SIGNAGE

N.T.S.



SEWER INLET TYPE B

N.T.S.



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1683 Walnut Grove Ave.
Rosemead, California 91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

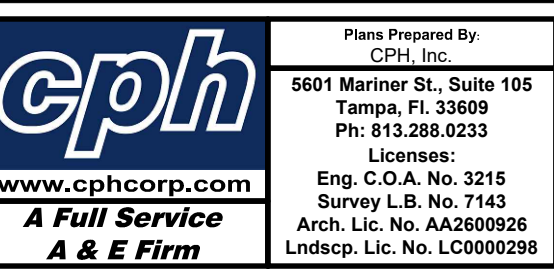
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DRAWN BY: K. Patterson

PANDA PROJECT #: D8433 STORE 3555
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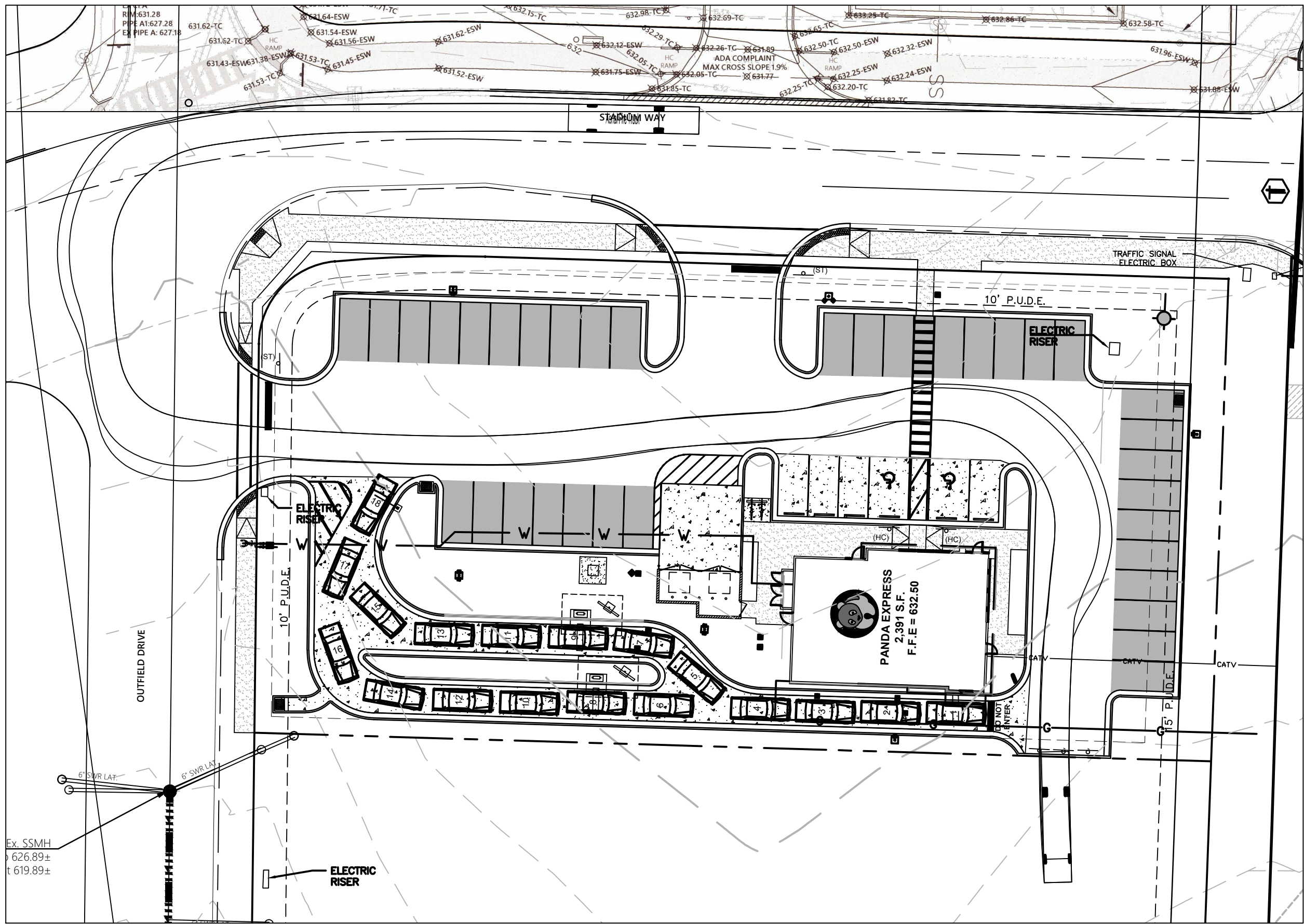
Jason L. Toole, State of Alabama Professional Engineer, License No. 34197 This item has been digitally signed and sealed by Jason L. Toole, P.E. on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

JASON L. TOOLE, P.E.
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TRUE WARM & WELCOME 2300
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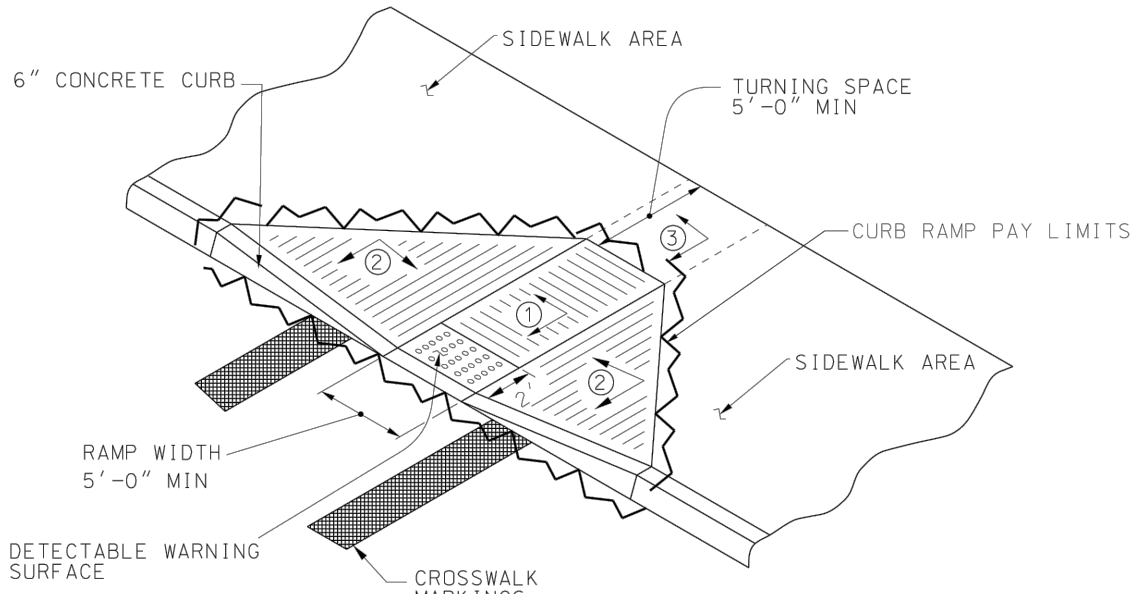
HARDSCAPE
DETAILS II
C03.2

TRUE WARM & WELCOME 2300
D8433



FIRE DEPARTMENT ACCESS

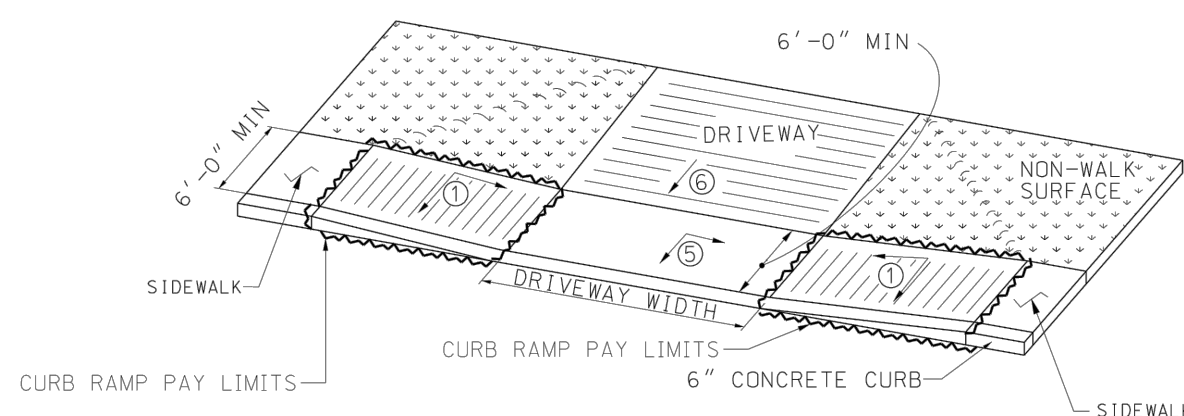
NTS



TYPE 1: PERPENDICULAR MIDBLOCK

DETAIL CALL-OUTS:

1. RAMP
15'-0" MAX LENGTH
8.3% (12:1) MAX RUNNING SLOPE
5.0% (20:1) MIN RUNNING SLOPE
2.0% (50:1) MAX CROSS SLOPE
2. FLARES
10.0% (10:1) MAX RUNNING SLOPE
3. LANDING OR TURNING SPACE
2.0% (50:1) MAX RUNNING SLOPE
2.0% (50:1) MAX CROSS SLOPE
4. OMIT
5. SIDEWALKS
5.0% (20:1) MAX RUNNING SLOPE
2.0% (50:1) MAX CROSS SLOPE
6. DRIVEWAYS
8.0% (12.5:1) MAX CHANGE IN GRADE BETWEEN ROAD SURFACES AND DRIVEWAY
8.0% (12.5:1) MAX CHANGE IN GRADE BETWEEN DRIVEWAY AND SIDEWALK



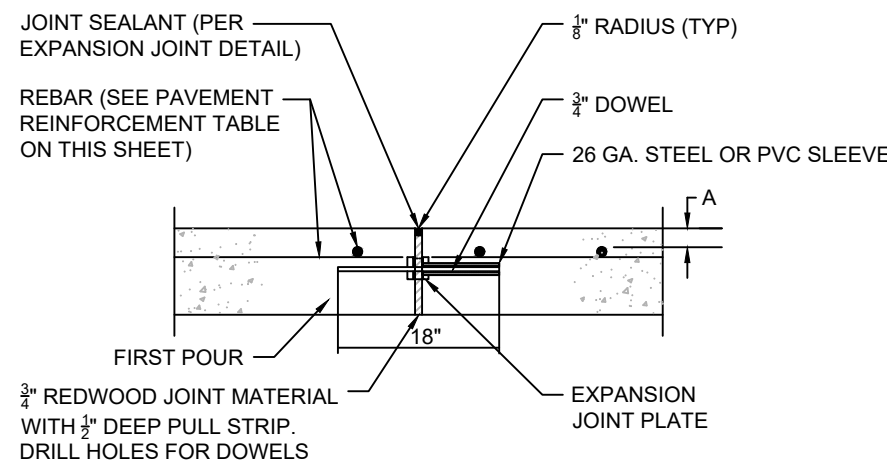
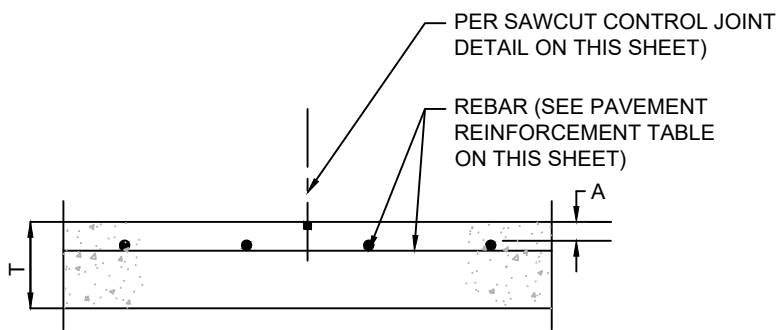
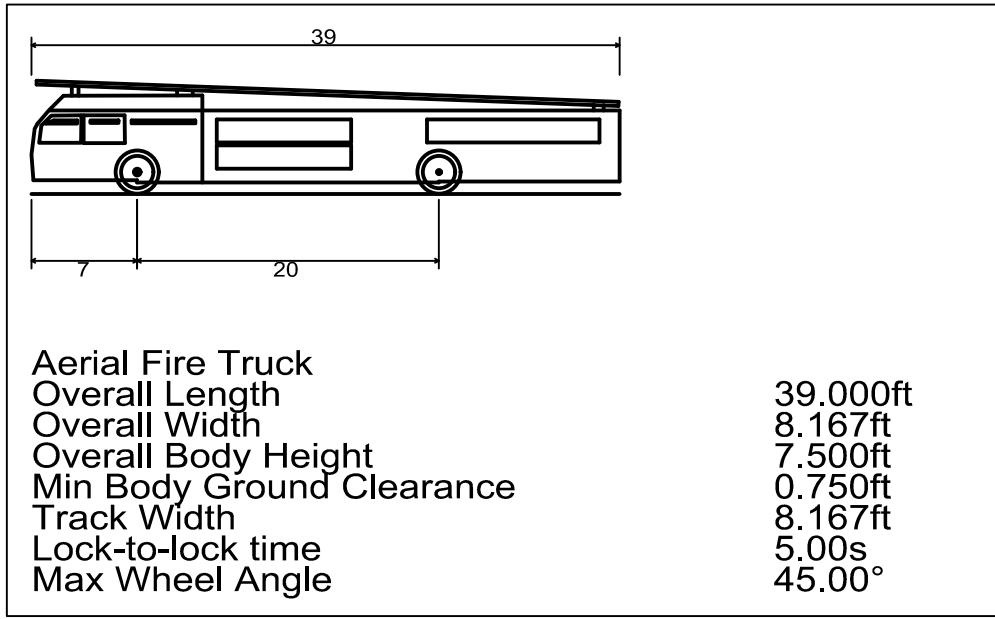
TYPE 3A: DRIVEWAY CROSSING (NOTE: DRIVEWAY SURFACE AT LOWER ELEVATION THAN SIDEWALK SURFACE)

GENERAL NOTES FOR CURB RAMPS AND SIDEWALKS:

1. WHERE THE TURNING SPACE IS CONSTRAINED AT THE BACK-OF-SIDEWALK SUCH AS, A BUILDING ADJACENT TO THE SIDEWALK, THE TURNING SPACE SHALL BE 4'-0" MIN BY 5'-0" MIN. THE 5'-0" DIMENSION SHALL BE PROVIDED IN THE DIRECTION OF THE RAMP RUN.
2. SIDEWALK, RAMP, AND CURB RAMP SURFACES SHALL BE NON-SKID PREPARED BY BRUSHING.
3. 2% (50:1) OR LESS IS CONSIDERED FLAT.
4. INSTALL EXPANSION JOINT MATERIAL WHERE NEW CONSTRUCTION MEETS EXISTING SIDEWALKS, CURBS, GUTTERS, OR FOUNDATIONS. THE CONSTRUCTION JOINT MATERIAL SHALL MEET THE REQUIREMENT OF SECTION 832.01 AND SEALED IN ACCORDANCE WITH SECTION 832.02.
5. THE SUBGRADE SHALL BE FREE OF ALL ROOTS AND OTHER UNDESIRABLE MATERIALS WITH THE ROOTS CUT BACK ONE (1) FOOT FROM FACE OF SIDEWALK.
6. SIDEWALKS, RAMPS, LANDINGS, AND CURB RAMPS SHALL BE FOUR (4) INCHES THICK UNLESS NOTED OTHERWISE.
7. RAMP AND CURB RAMP GRADE(SLOPE IN THE DIRECTION OF PEDESTRIAN TRAVEL) SHALL NOT EXCEED 8.3% (12:1).
8. GUTTER SLOPE SHALL NOT EXCEED 8.3% (12:1). THIS APPLIES WHETHER OR NOT GUTTERS ARE DETECTED IN THE EXAMPLES.
9. WITHIN THE STREET OR HIGHWAY RIGHT-OF-WAY, THE GRADE OF THE PEDESTRIAN ACCESS ROUTES SHALL NOT EXCEED THE GENERAL GRADE ESTABLISHED FOR THE ADJACENT STREET OR HIGHWAY. WHERE PEDESTRIAN ACCESS ROUTES ARE NOT CONTAINED WITHIN A STREET OR HIGHWAY RIGHT-OF-WAY, THEY SHALL HAVE A MAXIMUM SLOPE OF 20:1 (5.0%).
10. PROVIDE A TWO (2) FEET MINIMUM TRANSITION STRIP IF ALGEBRAIC DIFFERENCES BETWEEN ROADWAY SLOPE AND CURB RAMP SLOPE ARE GREATER THAN 9:1 (11.0%). TRANSITION STRIP SHALL NOT EXCEED 2.0% (50:1).
11. DETECTABLE WARNING SURFACES MUST BE TWO (2) FEET IN LENGTH IN THE DIRECTION OF PEDESTRIAN TRAVEL AND EXTEND THE FULL WIDTH OF THE CURB RAMP. THE DETECTABLE WARNING MATERIAL AND MANUFACTURER SHALL BE FROM THE ALABAMA DEPARTMENT OF TRANSPORTATION LIST OF QUALIFIED MATERIAL, SOURCES, AND DEVICES. THE COLOR SHALL BE BRICK RED OR A COLOR APPROVED BY THE ENGINEER THAT SHALL CONTRAST THE SURROUNDING SURFACES (LIGHT-ON- DARK OR DARK-ON-LIGHT).
12. VERTICAL SURFACE DISCONTINUITIES SHALL BE 0.50 INCH MAXIMUM. VERTICAL SURFACE DISCONTINUITIES BETWEEN 0.25 AND 0.5 INCH SHALL BE BEVELED WITH A SLOPE NOT GREATER THAN 2:1 (50.0%).
13. DOMES SHALL BE PARALLEL TO THE RAMP SO THAT THE WHEELCHAIR WHEELS CAN TRAVEL BETWEEN THE DOMES. (WHERE POSSIBLE ON CURVED INSTALLATIONS.)
14. THESE MAXIMUM SLOPES SHALL NOT BE EXCEEDED.
15. TO PREVENT STANDING WATER AT THE BASE OF CURB RAMPS, LOCATE STORM DRAIN INLETS UPSTREAM.
16. IF A 4 FOOT SIDEWALK IS REQUIRED, THEN A 5 FOOT X 5 FOOT PASSING ZONE SHALL BE CONSTRUCTED EVERY 200 FEET.
17. IF THE SIDEWALK IS ADJACENT TO THE CURB, THE WIDTH SHOULD BE 6 FOOT; 5 FOOT MINIMUM IF ROW CONSTRAINTS EXIST.

ALDOT CURB RAMP INDEX NUMBER 61801 (SW-618)

NTS

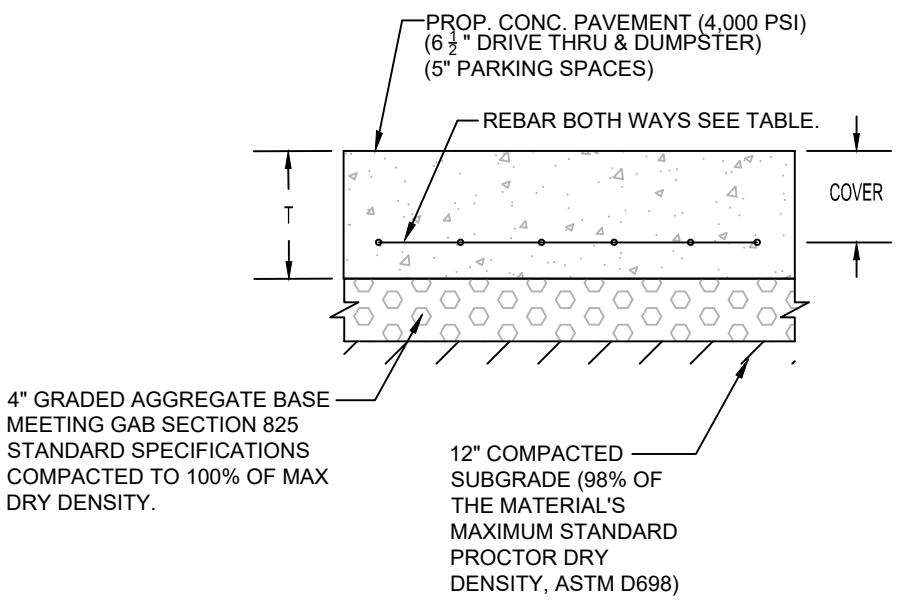
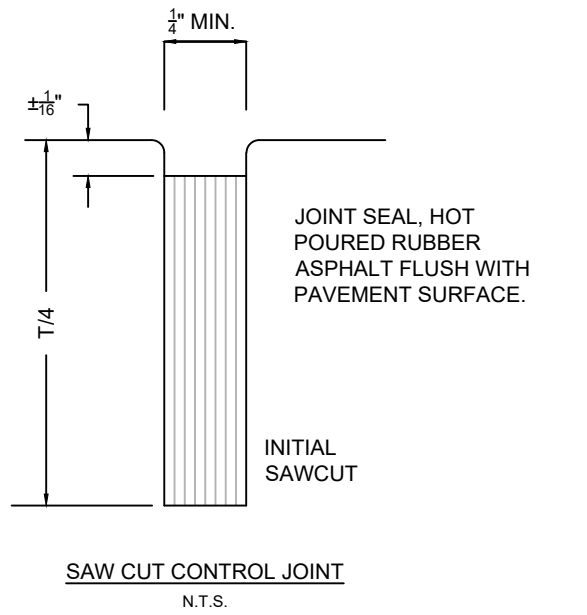
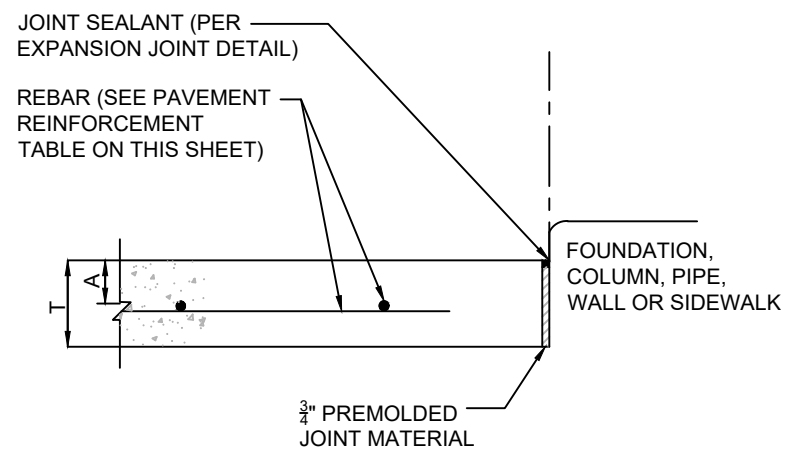
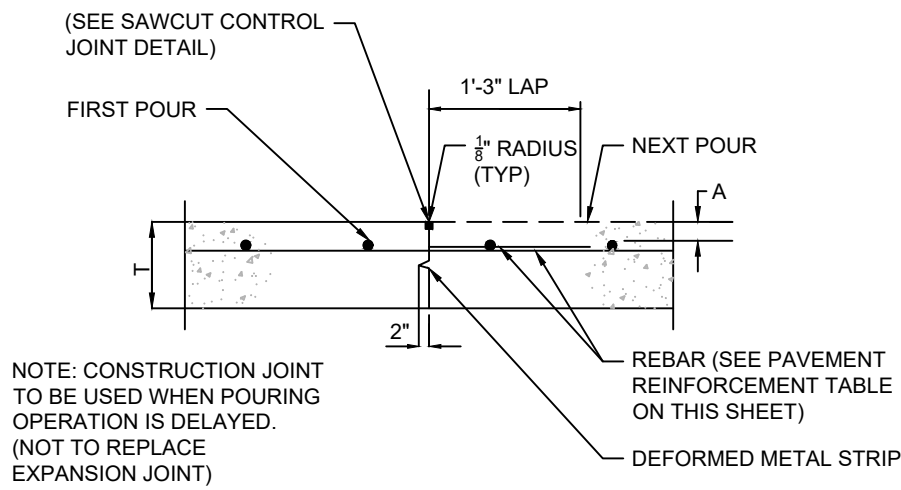
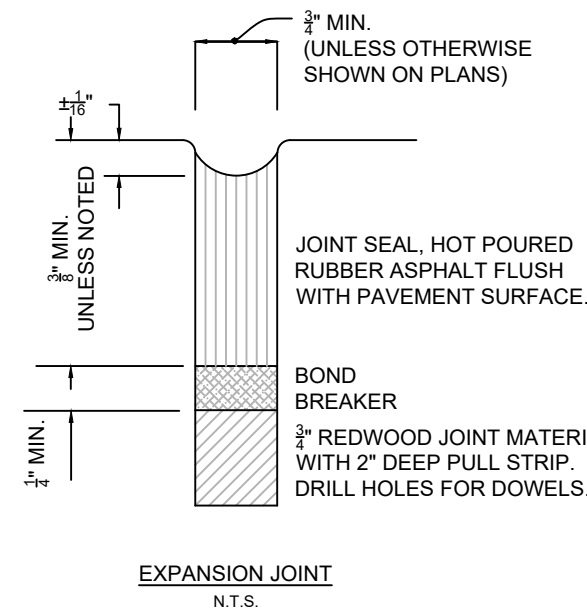
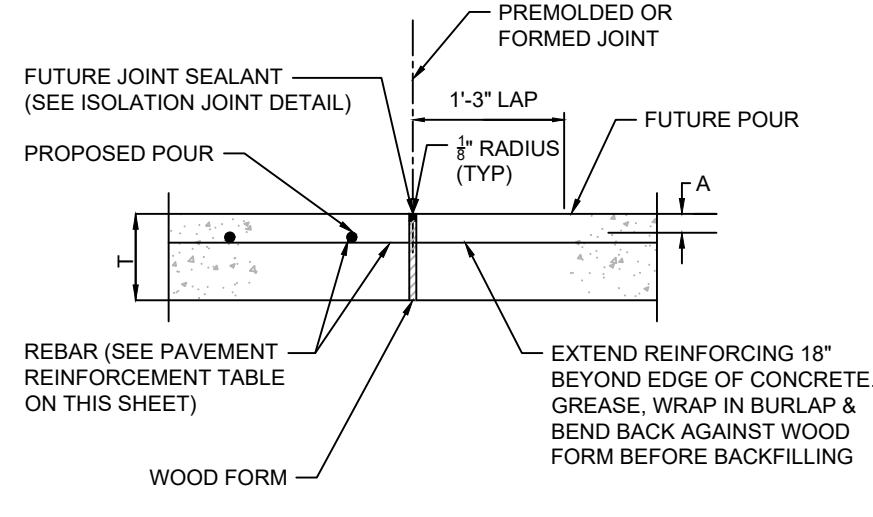
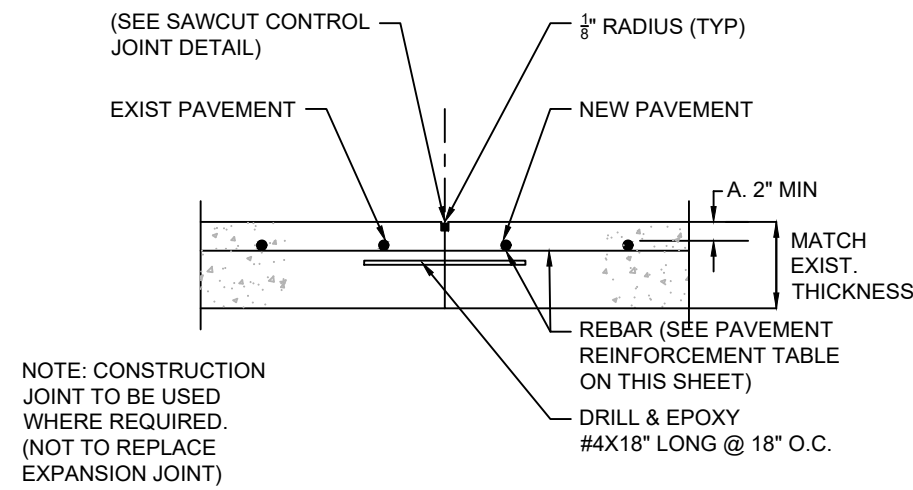


NOTES:

1. REINFORCING STEEL BAR SIZE/SPACING SPECIFICATIONS IN GEOTECH REPORT SHALL SUPERSEDE ABOVE TABLE.
2. REINFORCING STEEL SIZE/SPACING IS BASED ON MIN. 60,000 PSI TENSILE STRENGTH REINFORCING STEEL AS SHOWN.
3. CONCRETE PAVING MIX DESIGN SHALL HAVE MINIMUM 4000 PSI COMPRESSIVE STRENGTH AT 28 DAYS. GEOTECHNICAL REPORT CONCRETE PAVING MIX DESIGN SHALL SUPERSEDE VALUES HEREIN.
4. MAXIMUM JOINT SPACING SHALL BE PER JOINT LAYOUT PLAN (IF PROVIDED) BUT SHALL NOT EXCEED VALUES IN TABLE.
5. MAXIMUM JOINT SPACING IN GEOTECHNICAL REPORT SHALL SUPERSEDE VALUES IN ABOVE TABLE.
6. USE STATE DOT SUBBASE UNLESS OTHERWISE SPECIFIED BY GEOTECHNICAL REPORT.
7. ALL JOINTS IN PAVING SHALL BE REFLECTED IN CURBING AND SHALL HAVE ALL THEIR RESPECTIVE JOINTING MATERIALS PRESENT (I.E. EXPANSION JOINTS SHALL HAVE THEIR RESPECTIVE FILLER BOARD AND CAULK REPLACED).
8. CURB EXPANSION JOINTS: - IF THERE IS AN EXPANSION JOINT IN THE PAVING, THE EXPANSION JOINT MUST FOLLOW THROUGH THE CURB. THE REINFORCING STEEL MUST ALSO BE CUT AT THE EXPANSION JOINT AND NOT ALLOWED TO RUN THROUGH THE JOINT CONTINUOUSLY. A SAW CUT EXPANSION JOINT IS NOT ACCEPTABLE BECAUSE NORMAL EXPANSION AND CONTRACTION WILL CAUSED THE CONCRETE TO PUSH AGAINST THE TWO SECTIONS AND ONE SIDE WILL EVENTUALLY FAIL. IF AN EXPANSION JOINT IS LEFT OUT AND MUST BE SAW CUT IN, THE CURB SHOULD BE CUT TWICE AND A 3" PIECE OF CONCRETE IS REMOVED. IN ALL CASES THE JOINT SHOULD BE CAULKED WITH NP1.
9. CONCRETE TOUCHING THE BACK OF CURBS- ANY CONCRETE THAT TOUCHES THE BACK OF A CURB INCLUDING SIDEWALKS, ISLAND NOSINGS AND PAYPHONE PADS SHALL BE ISOLATED FROM THE CURB USING 3" BLACK ASPHALT IMPREGNATED FIBERBOARD. CONTRACTOR SHALL USE A REMOVABLE STRIP OR A ZIP-STRIP AND SEAL THE JOINT WITH SL1. THE ONLY EXCEPTION IS IF THE ISLAND NOSINGS ARE POURED MONOLITHICALLY WITH THE CURB AND PARKING LOT.
10. CURBS AT THE BUILDING FOUNDATION- IF A CURB TOUCHES THE BUILDING FOUNDATION, IT NEEDS TO BE ISOLATED WITH EXPANSION JOINT MATERIAL JUST LIKE THE PAVING. IF AN EXPANSION JOINT IS LEFT OUT AND MUST BE SAW CUT IN, A 3" PIECE OF CONCRETE SHOULD BE REMOVED. THE JOINT SHOULD BE CAULKED WITH NP1.
11. EXPANSION JOINTS AT ISLAND NOSINGS- IF THE ISLAND NOSINGS ARE POURED MONOLITHICALLY WITH THE CURB AND PARKING LOT, THEN PAVING EXPANSION JOINTS SHOULD CONTINUE THROUGH THE NOSINGS.

1 CONCRETE SECTION

NTS



REINFORCEMENT TABLE				
CONCRETE SECTION DESIGNATION	SLAB THICKNESS (IN.)	COVER (IN.) (2" MIN)	MAX. EXPANSION JOINT SPACING (FT.)	60,000 PSI STEEL REINFORCING STEEL BAR SIZE & SPACING
TYPE 'A'	6	2	15	#3 @ 24" C.C.
TYPE 'B'	8	2	15	#3 @ 24" C.C.
TYPE 'C'	12	2	15	#3 @ 24" C.C.



PANDA EXPRESS, INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

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DRAWN BY: K. Patterson

PANDA PROJECT #: D8433 STORE 3555

CIVIL PROJECT #: P7363



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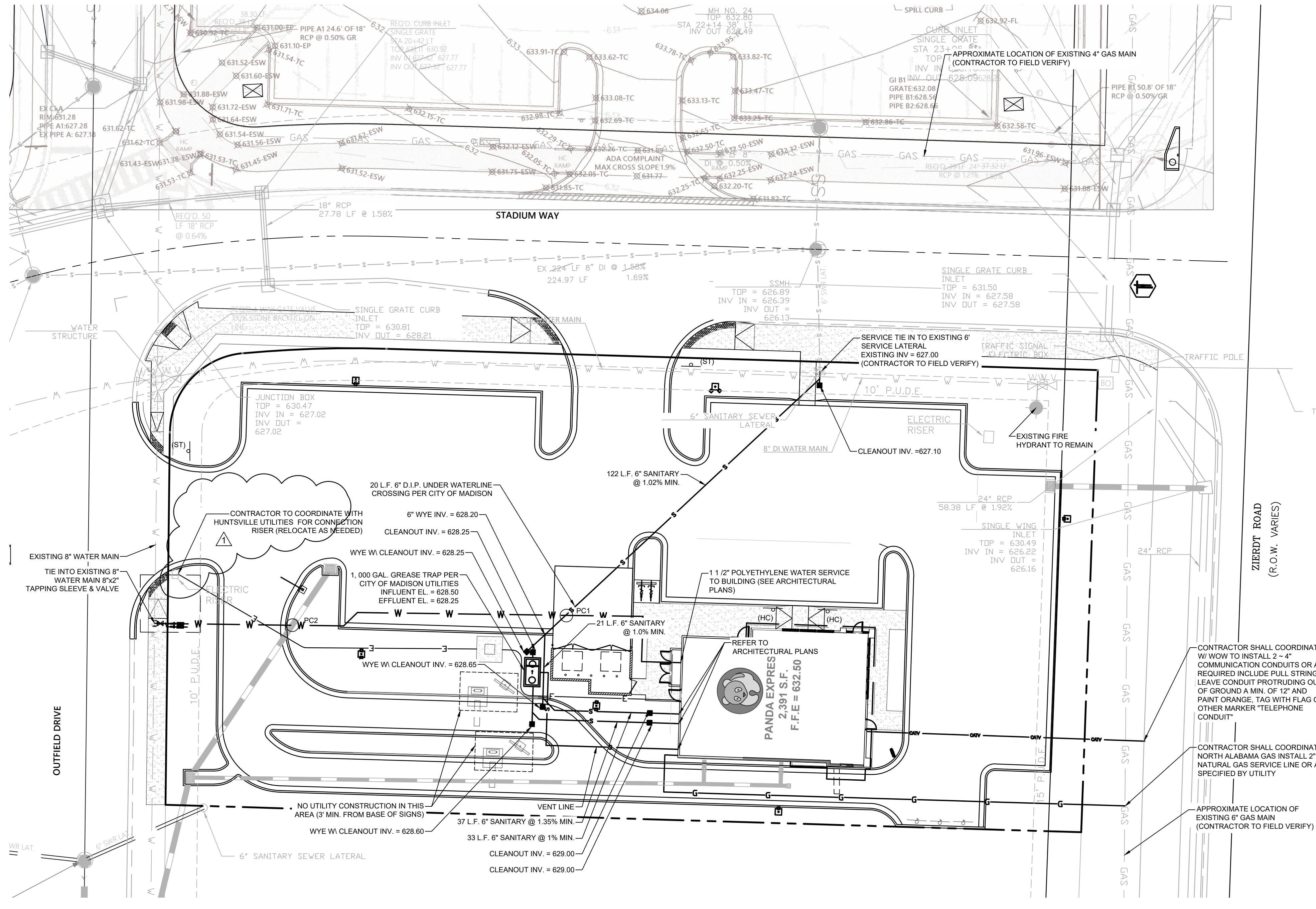
PANDA EXPRESS

TRUE WARM & WELCOME 2300
101 STADIUM WAY
MADISON, ALABAMA 35758

HARDSCAPE DETAILS III

C03.3

TRUE WARM & WELCOME 2300
D8433



UTILITY PLAN
SCALE: 1/20

PIPE CROSSING

FINISHED GRADE = H

PROPOSED PIPE SIZE = D
PROPOSED PIPE CATEGORY = E

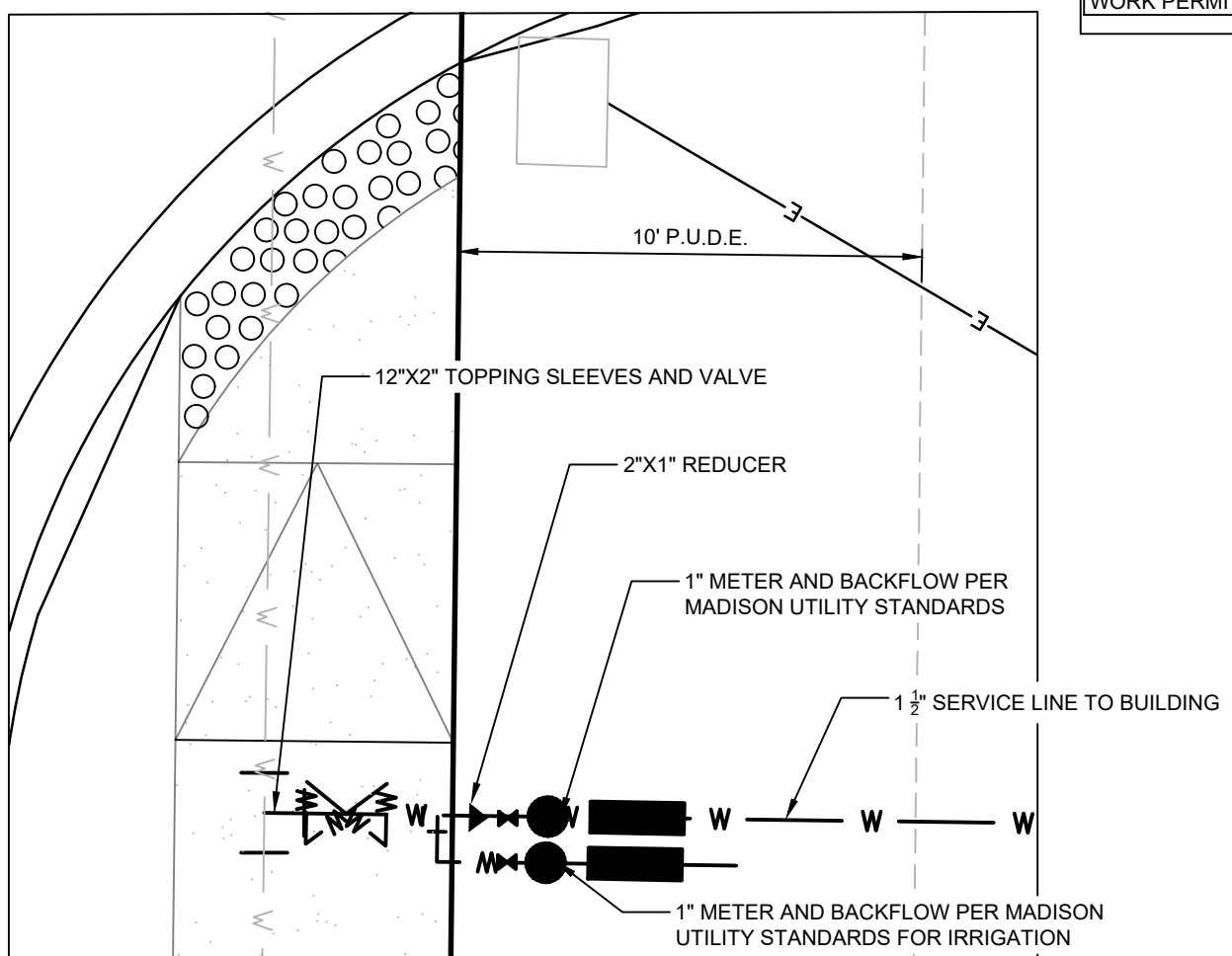
INV. ELEV. = F

PROPOSED PIPE SIZE = A
PROPOSED PIPE CATEGORY = B

INV. ELEV. = C

PIPE CROSSING

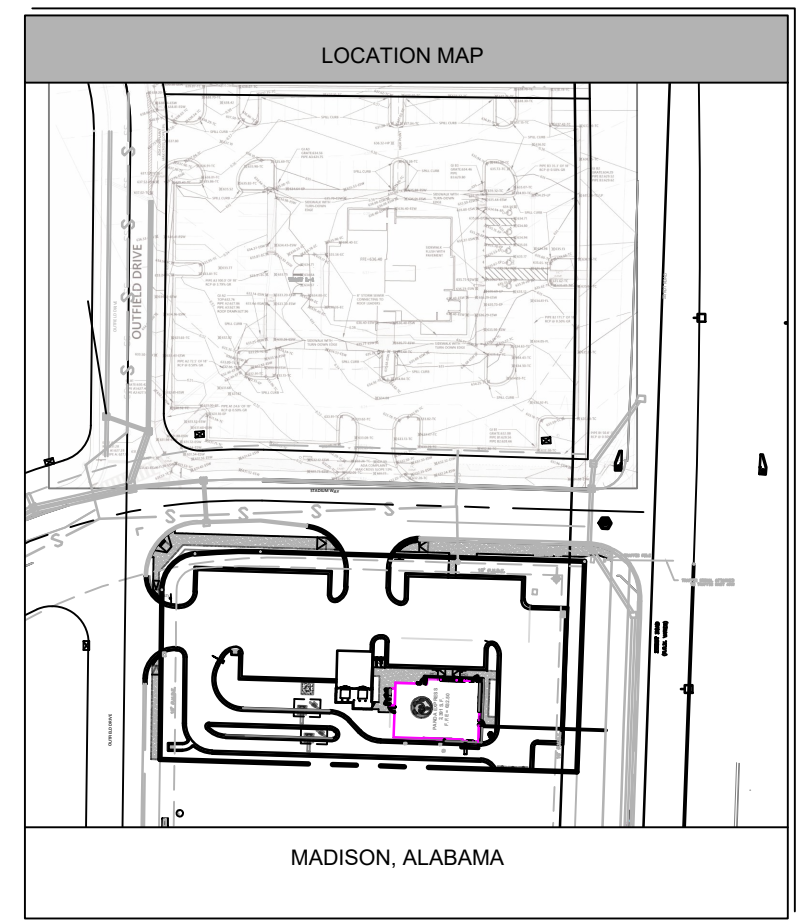
I.D.	A	B	C	D	E	F	G	H
PC-1	1 1/2"	WATER	628.75'	6"	SANITARY	628.38'	2.0'	631.39'
PC-2	1 1/2"	WATER	622.76'	15"	STORM	625.36'	2.0'	630.75'



WATER METER INSET
N.T.S.

CONTRACTOR TO EXERCISE EXTREME CAUTION
WHEN EXCAVATING IN THE VICINITY OF THE
EXISTING BURIED GAS MAIN

UTILITY INFORMATION					
WATER					
	GC	SELLER (LANDLORD)	DEVELOPER OPER	UTILITY	ADDITIONAL NOTES
LINE EXTENSION TO PROPERTY LINE					N/A
PIPING FROM PROPERTY LINE TO BUILDING	●				***
TAPPING THE MAIN	●				***
WATER VAULT					N/A
WATER (METER) PIT	●				***
DOMESTIC METER			●		***
FIRE METER					N/A
IRRIGATION METER			●		***
DOMESTIC BFP			●		***
FIRE BFP					N/A
IRRIGATION BFP			●		***
OBTAINING EASEMENTS					N/A
OBTAINING ROW WORK PERMITS					N/A
SANITARY SEWER					
	GC	SELLER (LANDLORD)	DEVELOPER OPER	UTILITY	ADDITIONAL NOTES
TAPPING OF THE MAIN					N/A
LINE EXTENSION					N/A
SERVICE LATERAL (INSIDE PROPERTY)	●				***
OBTAINING EASEMENTS					N/A
OBTAINING ROW PERMIT					N/A
ELECTRIC					
	GC	SELLER (LANDLORD)	DEVELOPER OPER	UTILITY	ADDITIONAL NOTES
PRIMARY CONDUIT					N/A
PRIMARY CABLE					N/A
PRIMARY FINAL CONNECTION					N/A
TRANSFORMER					N/A
TRANSFORMER PAD					N/A
POLE			●		***
SECONDARY CABLE	●				***
SECONDARY CONDUIT	●				***
SECONDARY FINAL INSPECTION	●				***
METER				●	***
CT CABINET					N/A
CT METER CONDUIT					N/A
SOCKET	●				***
OBTAINING EASEMENTS	●				***
ROW WORK PERMITS					N/A
TELEPHONE					
	GC	SELLER (LANDLORD)	DEVELOPER OPER	UTILITY	ADDITIONAL NOTES
CONDUIT	●				***
TRENCH & BACKFILL	●				***
CABLE & WIRE				●	***
OBTAINING EASEMENTS			●		***
OBTAINING ROW WORK PERMITS			●		***
GAS					
	GC	SELLER (LANDLORD)	DEVELOPER OPER	UTILITY	ADDITIONAL NOTES
TAP			●		***
PIPING			●		***
TRENCH AND BACKFILL			●		***
METER			●		***
REGULATOR			●		***
OBTAINING EASEMENTS			●		***
OBTAINING ROW WORK PERMITS			●		***



GENERAL UTILITY NOTES

- SEE SHEET C01.1 FOR GENERAL NOTES.
- SEE MEP PLANS FOR CONTINUATION OF ALL UTILITIES INTO BUILDING.
- SANITARY LATERALS SHALL HAVE A MINIMUM FALL OF 1.00%.
- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES AND THEIR LOCATIONS AND ELEVATIONS PRIOR TO STARTING CONSTRUCTION.
- THE FINAL LOCATION OF FIRE HYDRANTS, VALVES, WATER LINES, BACKFLOW PREVENTERS, ETC. SHALL BE DETERMINED DURING CONSTRUCTION. NOTIFY THE ENGINEER OF ANY CHANGES TO LOCATION OR CONFIGURATION. NFPA CODES SHALL BE ADHERED TO.
- THE CONTRACTOR SHALL CONTACT PUBLIC UTILITIES INSPECTIONS AT LEAST 72 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITY.
- ALL WORK TO BE DONE IN STRICT ACCORDANCE WITH LOCAL GOVERNING CODES.
- UTILITY CONDUIT MATERIAL FOR ELECTRIC, TELEPHONE, AND CABLE SHALL BE INSTALLED PER UTILITY PROVIDER SPECIFICATIONS.
- CONTRACTOR TO BUILD CONCRETE TRANSFORMER PAD AND INSTALL SCHEDULE 80 PVC CONDUIT AND PULL STRING WITH SWEEPING BENDS.
- THE WATER DISTRIBUTION SYSTEM AND/OR SANITARY SEWER SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS CONTAINED WITHIN THE MADISON UTILITIES DOCUMENT TITLED, CONSTRUCTION SPECIFICATIONS FOR WATER AND SANITARY SEWER, LATEST EDITION.
- PRIOR TO CONSTRUCTION BEGINNING, A MEETING SHALL BE REQUESTED WITH MU'S INSPECTOR AND ENGINEER BY THE DEVELOPER, THE DESIGN ENGINEER, AND THE CONTRACTOR(S).
- CONNECTION TO EXISTING WATER MAIN TO BE PROVIDED AND INSTALLED BY DEVELOPER (PANDA EXPRESS).

UTILITY LINE MATERIALS

POTABLE WATER LINE
1 1/2" POLYETHYLENE TUBING, SDR9 COPPER TUBE SIZE
AWWA C901, ASTM D1248, ASTM D2239, ASTM D2737, ASTM D3350

GRAVITY SEWER LINE
6" PVC SDR 26 OR CLASS 350 DIP

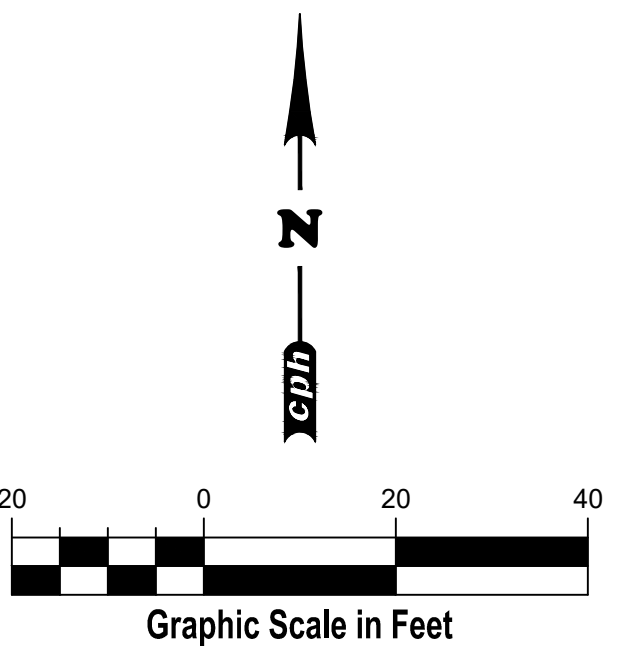
FIRE FLOW CALCULATIONS

SBC TYPE: VB (UNPROTECTED) BASED ON NFPA SECTION 291:
DESCRIPTION: WOOD FRAME (UNPROTECTED)
USE: PANDA EXPRESS RESTAURANT, COMBUSTIBLE
UNDIVIDED AREA: 2,391 S.F.
FIRE FLOW NEEDED: 1,500 G.P.M. (FROM N.F.P.A TABLE 18.4.5.1.2)
FIRE FLOW AT 20 PSI: 3,027 G.P.M.

NON-SPRINKLERED BUILDING
OCCUPANCY LOAD = 83

24 HOUR CONTACT:
PANDA PM

JOE CELENTO
(912) 272-4811



PANDA EXPRESS, INC.
1683 Walnut Grove Ave.
Rosemead, California
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Telephone: 626.799.9898
Facsimile: 626.372.8288

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5601 Mariner St., Suite 105
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Ph: 813.288.0233
Licenses:
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AL. P.E. No. 34197

PANDA EXPRESS
TRUE WARM & WELCOME 2300
101 STADIUM WAY
MADISON, ALABAMA 35758

UTILITY PLAN

C04.0

TRUE WARM & WELCOME 2300
D8433



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5601 Mariner St., Suite 105
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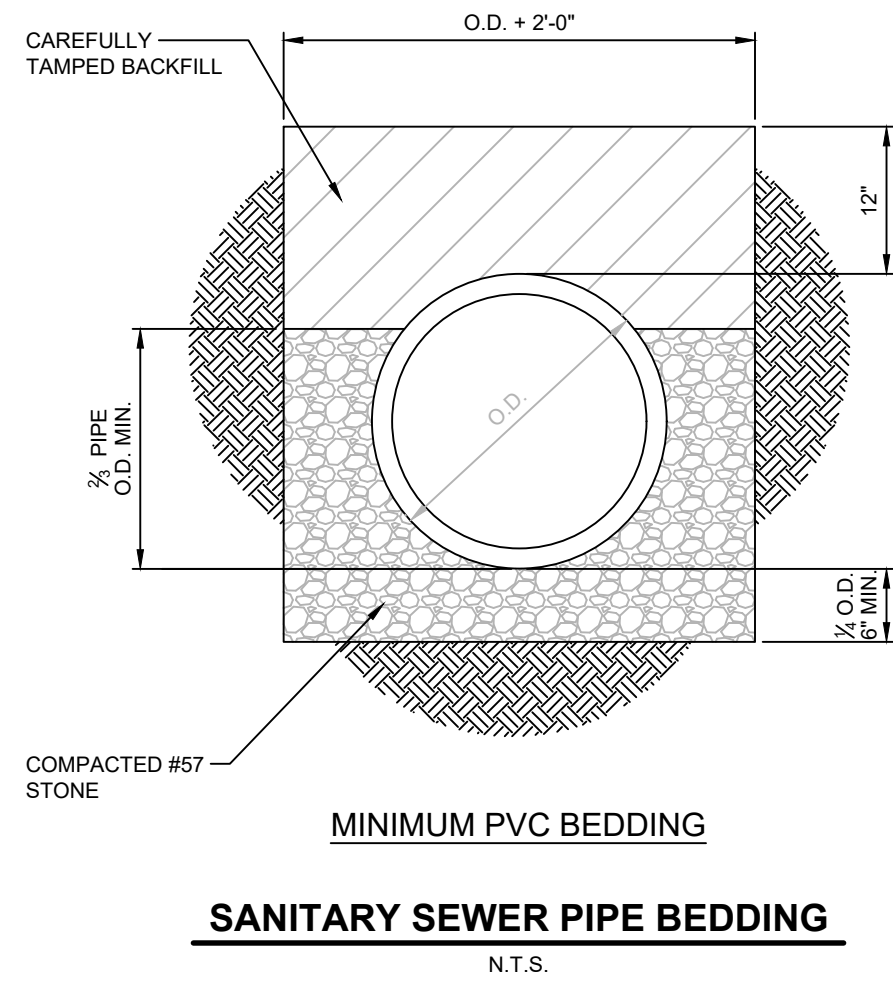
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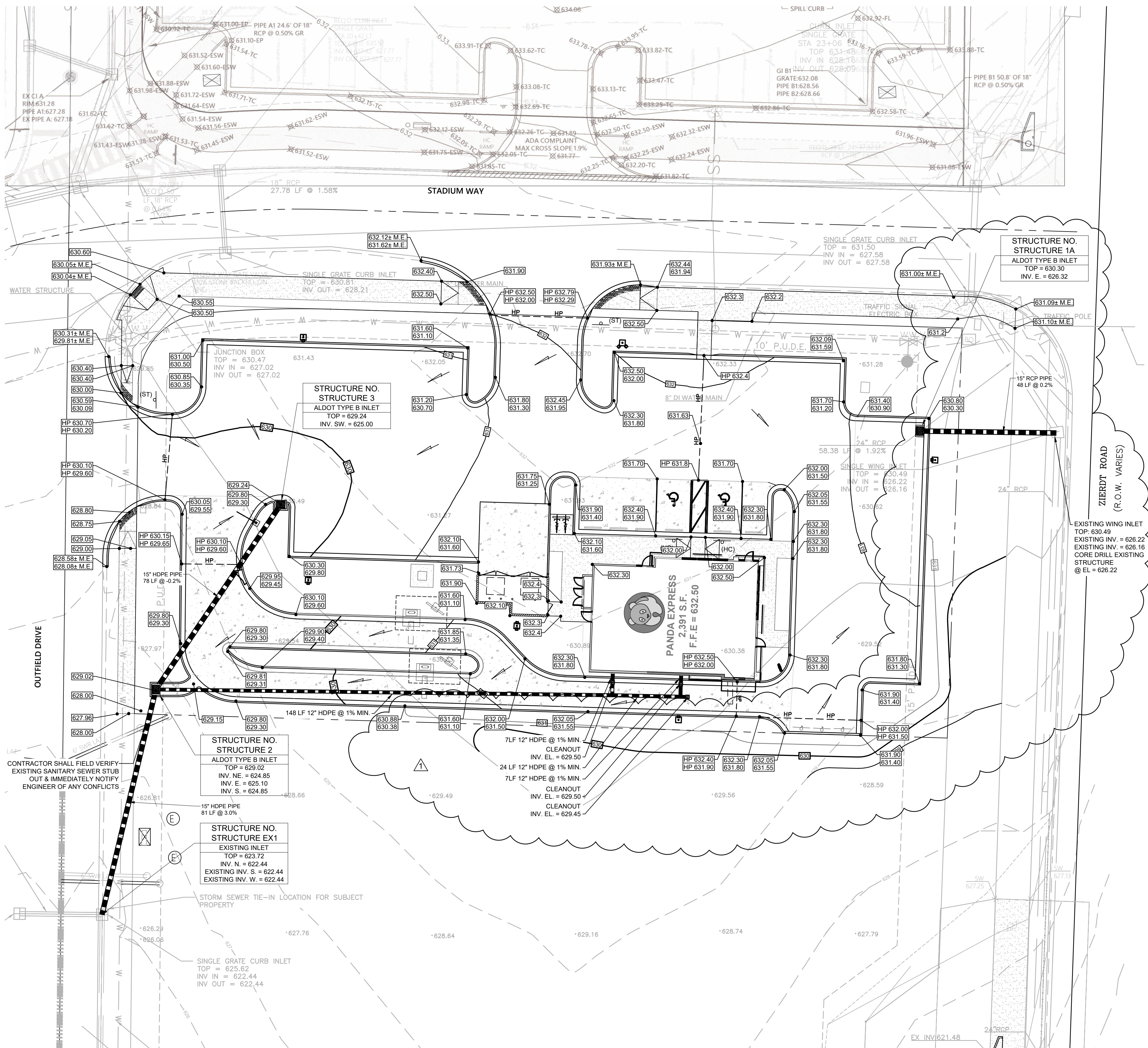
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UTILITY DETAILS

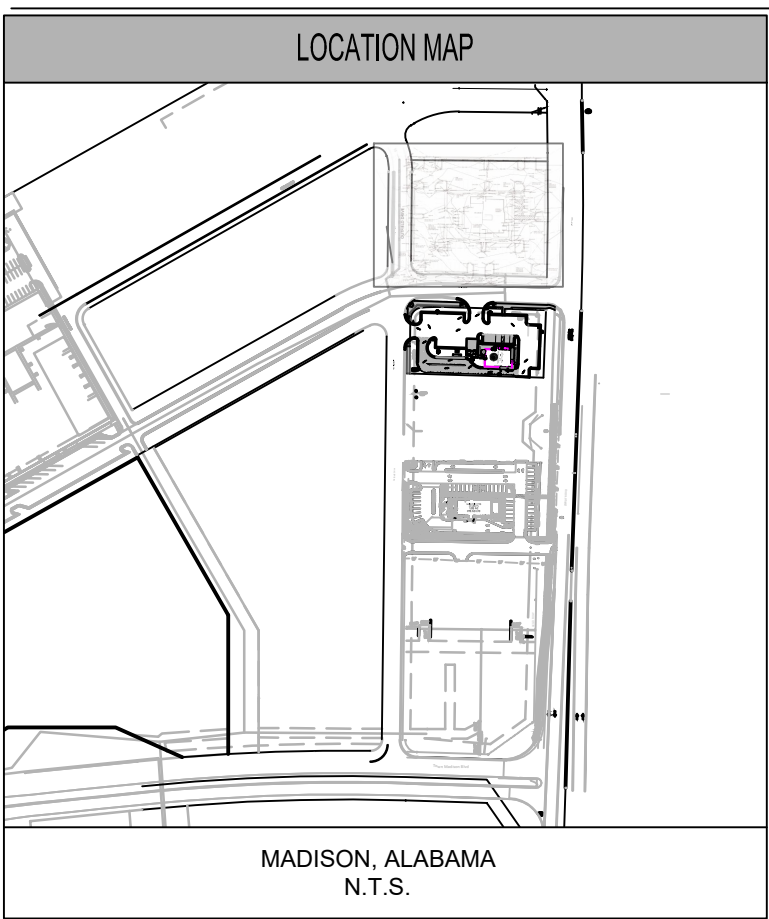
C04.1





GRADING & DRAINAGE LEGEND

	PROPOSED POTABLE WATER LINE
	PROPOSED SANITARY LINE
	PROPOSED STORM LINE
	PROPOSED HIGH POINT
	MATCH EXISTING PAVEMENT ELEV.
	PROPOSED PAVEMENT ELEV.
	PROPOSED DRAINAGE FLOW DIRECTION



- PANDA EXPRESS NOTES**
- CONTRACTOR SHALL COORDINATE FINAL LOCATION WITH SIGN COMPANY AND PANDA EXPRESS PM FOR FINAL LOCATION OF DRIVE THRU ELEMENTS (MENU BOARD, ORDER CANOPY, CLEARANCE BAR, AND DIRECTIONAL SIGNAGE) PRIOR TO INSTALLATION.
 - CONTRACTOR SHALL ENSURE THAT PROPOSED UTILITIES, INCLUDING SITE LIGHTING CONDUIT ARE NOT INSTALLED SO THAT THEY WOULD CONFLICT WITH THE PLACEMENT OF THE DRIVE THRU ELEMENTS AND FOOTINGS.
 - CONTRACTOR SHALL PROVIDE CONCRETE PAVING BETWEEN FACE OF BUILDING AND BACK OF CURB ALONG DRIVE-THRU LANE AND ENSURE POSITIVE DRAINAGE AWAY FROM BUILDING.
 - CONTRACTOR SHALL COORDINATE AND VERIFY LOCATION OF ALL SIGNAGE WITH OWNER PRIOR TO CONSTRUCTION.
 - CONTRACTOR SHALL COORDINATE AND ADJUST LOCATION OF LOOP DETECTORS TO AVOID UTILITY CONFLICTS PRIOR TO CONSTRUCTION.
 - CONTRACTOR SHALL INSTALL GENERAL UTILITY CONDUITS TO PLANTERS AROUND BUILDING AND PATIO. SEE ARCHITECTURAL / MEP PLANS FOR CONTINUATION.
 - CONTRACTOR SHALL PROTECT ALL ITEMS OUTSIDE LIMITS OF CONSTRUCTION UNLESS OTHERWISE NOTED IN THE CONSTRUCTION PLANS OR SPECIFICATIONS.
 - CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES (LOCATIONS AND ELEVATIONS) PRIOR TO STARTING CONSTRUCTION AND ALERT ENGINEER TO ANY DISCREPANCIES IMMEDIATELY.

- GRADING & DRAINAGE NOTES**
- SEE LANDSCAPE PLAN FOR REQUIRED TREES AND GROUND COVER.
 - SLOPE OF SURFACE GRADE SHALL BE A MINIMUM OF 1.00%.
 - MAXIMUM CUT OF FILL SLOPES IS 2H:1V.
 - THE CONTRACTOR SHALL PROVIDE CLEAN, SUITABLE MATERIAL FOR REQUIRED FILL. SHOULD A SUFFICIENT QUANTITY OF SUITABLE MATERIAL NOT BE AVAILABLE FROM THE REQUIRED EXCAVATION ON THE SITE.
 - ALL FILL SHOULD BE PLACED IN THIN, HORIZONTAL LOOSE LIFTS (MAXIMUM 6-INCH) AND COMPACTED TO AT LEAST 98 PERCENT OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D 698). THE UPPER 8 INCHES OF SOIL BENEATH PAVEMENTS AND SLAB-ON-GRADE SHOULD BE COMPACTED TO AT LEAST 100 PERCENT. COMPACTION MUST BE CERTIFIED BY A ALABAMA REGISTERED PROFESSIONAL SOILS ENGINEER PRIOR TO THE INSTALLATION OF PAVEMENTS, CURBS, SIDEWALKS OR FOOTINGS OF ANY TYPE.
 - DETENTION POND, DETENTION OUTLET STRUCTURES AND TEMPORARY SEDIMENT POND FEATURES ARE TO BE FULLY CONSTRUCTED AND OPERATIONAL PRIOR TO ANY OTHER CONSTRUCTION OR GRADING ON THE SITE AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
 - LENGTH OF RIP-RAP PADS AT PIPE OUTLET STRUCTURES TO BE A MINIMUM LENGTH OF (6) SIX TIMES THE DIAMETER OF THE PIPE.
 - JURISDICTIONAL LAND DISTURBANCE PERMIT MUST BE DISPLAYED ON SITE AT ALL TIMES DURING CONSTRUCTION AND IN PLAIN VIEW FROM A PUBLIC ROAD OR STREET.
 - SEE SHEET C01.1 FOR GENERAL NOTES.

HYDROLOGY STATEMENT

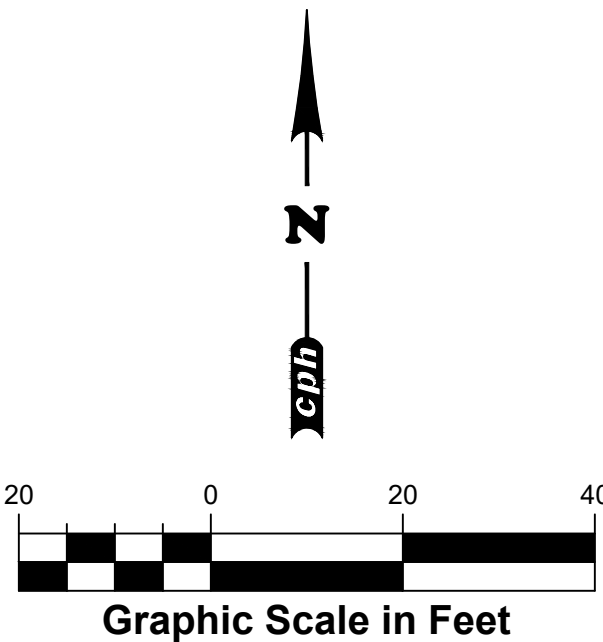
ONSITE STORMWATER RUN-OFF WILL BE COLLECTED VIA PROPOSED CURB INLETS AND DROP CURB INLET. A PROPOSED STORM PIPE SYSTEM WILL CONVEY STORMWATER TO AN EXISTING STORM PIPE LOCATED ALONG THE SOUTH OF THE SUBJECT SITE. THE EXISTING 18" RCP PIPE WILL CONVEY THE STORMWATER TO THE EXISTING MASTER DETENTION POND. BASED ON THE MASTER DETENTION POND SIZING AND OVERALL HYDROLOGY REPORT PERFORMED BY THE DEVELOPMENT'S ENGINEER, THE MASTER DETENTION POND IS SIZED TO ADEQUATELY DETAIN RUNOFF FROM THE SUBJECT SITE.

GRADING & DRAINAGE LEGEND

	PROPOSED STORM LINE
	PROPOSED HIGH POINT
	MATCH EXISTING PAVEMENT ELEV.
	PROPOSED SPOT ELEV.
	PROPOSED TOP OF CURB ELEVATION
	PROPOSED FLOW LINE
	PROPOSED DRAINAGE FLOW DIRECTION
	ADA PARKING MAXIMUM OF 2% IN ALL DIRECTIONS

24 HOUR CONTACT:
PANDA PM

JOE CELENTO
(912) 272-4811



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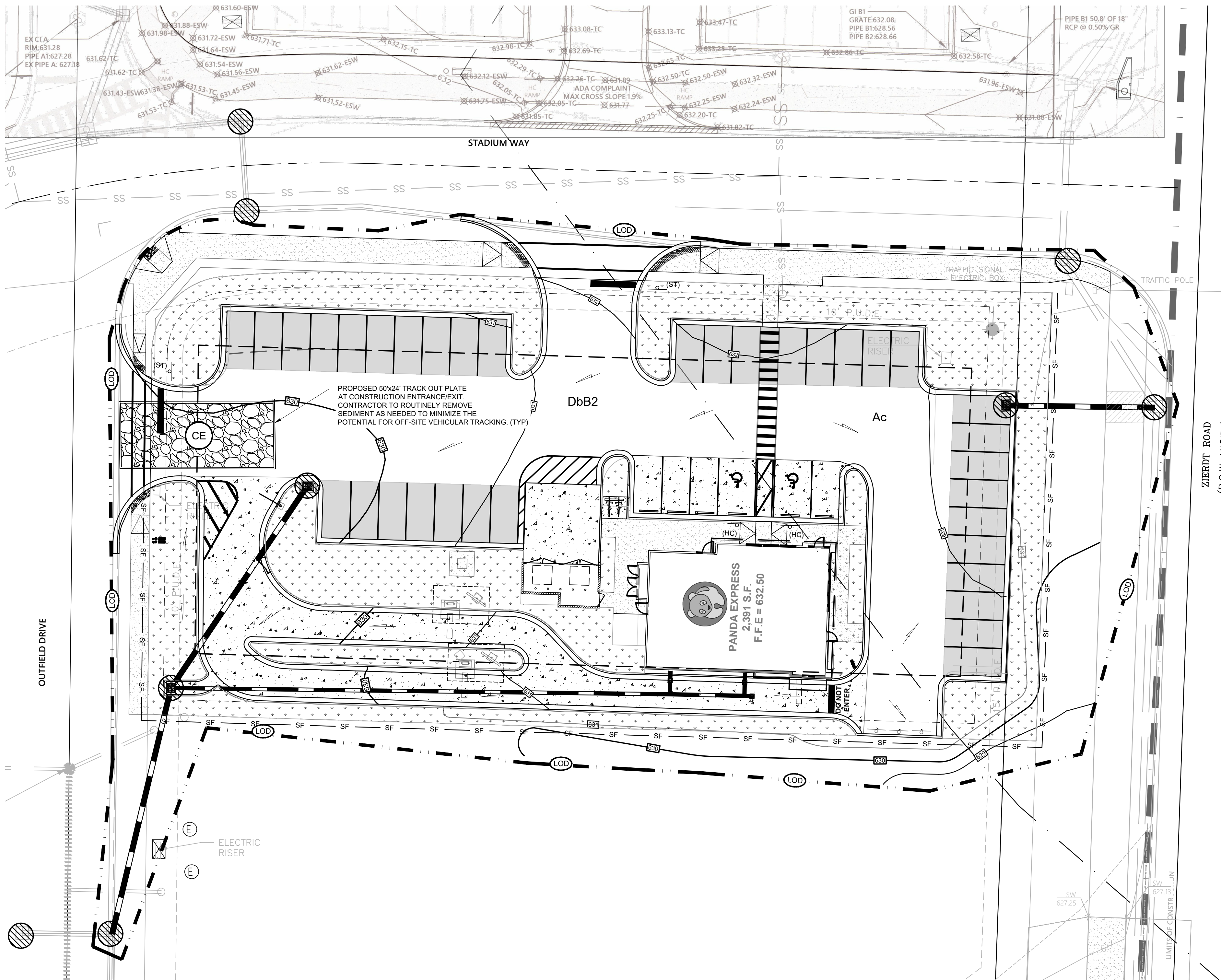
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AL. P.E. No. 34197

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TRUE WARM & WELCOME 2300
101 STADIUM WAY
MADISON, ALABAMA 35758

GRADING &
DRAINAGE PLAN
C05.0

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PANDA EXPRESS STANDARD NOTES

- 1. THE GEOTECHNICAL INVESTIGATION PREPARED BY TERRACON, DATED 11/1/17 AND ANY SUBSEQUENT ADDENDUMS IS CONSIDERED PART OF THE CONTRACT DOCUMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE REPORT'S RECOMMENDATIONS AND FINDINGS WITH THE OWNER, ENGINEER AND ARCHITECT PRIOR TO CONSTRUCTION. IMPLEMENTATION OF THE REPORT'S RECOMMENDATIONS MAY REQUIRE THE CONTRACTOR TO PERFORM ADDITIONAL WORK NOT SHOWN ON THE CIVIL PLANS INCLUDING BUT NOT LIMITED TO EXCAVATION, REMEDIATION, DEWATERING, COMPACTION ETC.
- 2. CONTRACTOR SHALL COORDINATE AND VERIFY LOCATION OF ALL SIGNAGE WITH OWNER PRIOR TO CONSTRUCTION.
- 3. CONTRACTOR SHALL COORDINATE AND ADJUST LOCATION OF LOOP DETECTORS TO AVOID UTILITY CONFLICTS PRIOR TO CONSTRUCTION.
- 4. CONTRACTOR SHALL ENSURE 100% COVERAGE OF ALL LANDSCAPED AREAS WITHIN LIMITS OF WORK, INCLUDING POTENTIAL OFFSITE AREAS. COVERAGE SHALL INCLUDE BOTH LANDSCAPING AND IRRIGATION.

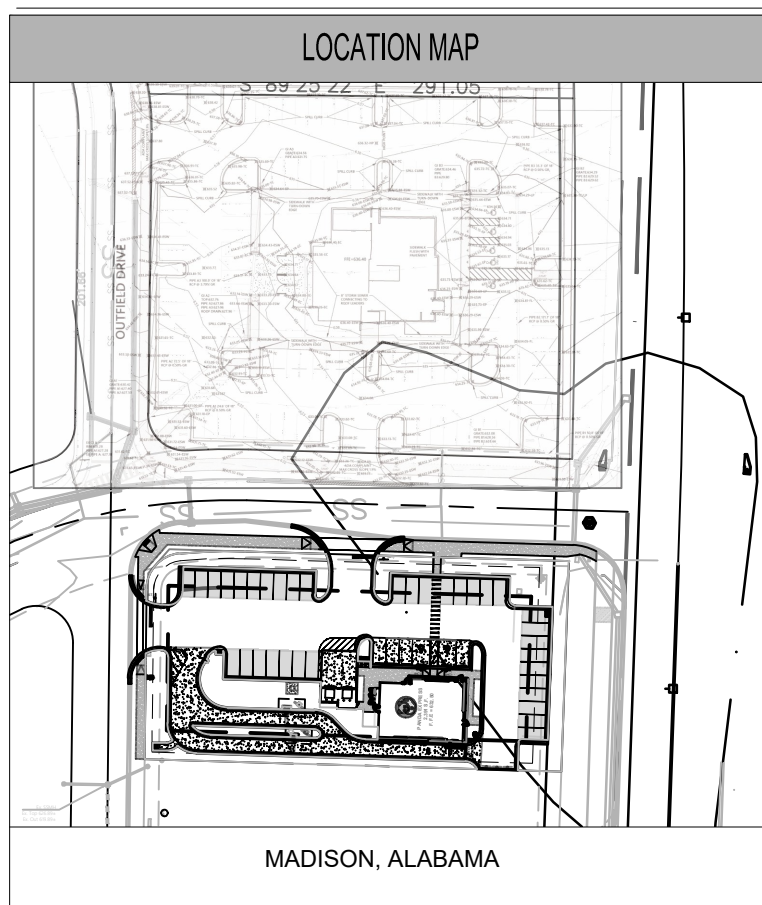
ACREAGE SUMMARY	
TOTAL SITE AREA	0.94 AC.
TOTAL DISTURBED AREA	1.30 AC.

SITE NOTES

- 1. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING IMPROVEMENTS AND TREES AND OTHER DEBRIS WITHIN THE LIMITS OF WORK FROM THE SITE. BURIAL OF TREES AND OTHER DEBRIS SHALL NOT BE ALLOWED.
- 2. ALL MATERIAL SHALL BE NEW, UNLESS USED OR SALVAGED MATERIALS ARE AUTHORIZED BY THE OWNER PRIOR TO USE.
- 3. CONTRACTOR TO PROVIDE CONCRETE PAVING BETWEEN CASE OF BUILDING AND BACK OF CURB ALONG DRIVE-THRU LANE AND ENSURE POSITIVE DRAINAGE AWAY FROM BUILDING.
- 4. THE ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL, AND STORMWATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS, VOL. 1 AND VOL. 2, LATEST EDITION AND ANY REVISION THEREOF, ARE HEREBY MADE A PART OF THESE PLANS.
- 5. THE CITY OF MADISON CONSTRUCTION SPECIFICATIONS MANUAL FOR PUBLIC IMPROVEMENTS, LATEST EDITION AND ANY REVISION THEREOF, ARE HEREBY MADE A PART OF THESE PLANS.

SOIL NOTES

SOIL BORINGS TAKEN IN SEVEN (7) DIFFERENT LOCATIONS TO A DEPTH OF FIVE (5) TO SEVEN (7) FEET BELOW THE EXISTING SURFACE GRADE. SUBSURFACE SOILS INCLUDE ABERNATHY-EMORY AND DECATUR.



LEGEND

- LOD --- LIMITS OF DISTURBANCE
- SF --- SILT FENCE PER STATE OF ALABAMA EROSION AND SEDIMENT CONTROL MANUAL (LATEST EDITION)
- INLET PROTECTION
- PERMANENT SEEDING/VEGETATION
- Ac SOIL TYPE- ABERNATHY-EMORY
- DbB2 SOIL TYPE- DECATUR



PANDA EXPRESS, INC.
1683 Walnut Grove Ave.
Rosemead, California 91770
Telephone: 626.799.9898
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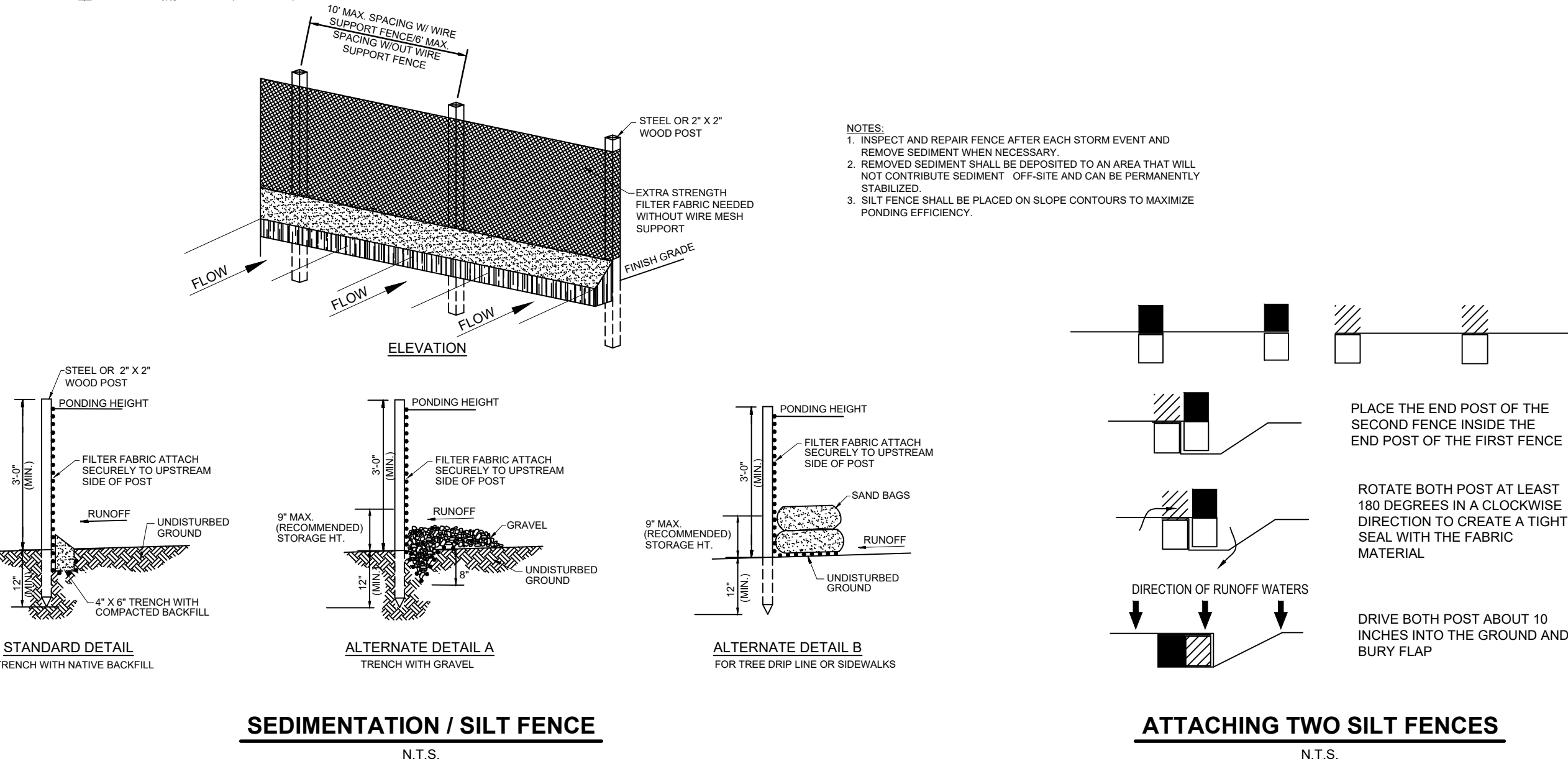
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101 STADIUM WAY
MADISON, ALABAMA 35758

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Project Name and location information: _____

24 HOUR CONTACT:
PANDA PM

JOE CELENTO
(912) 272-4811

