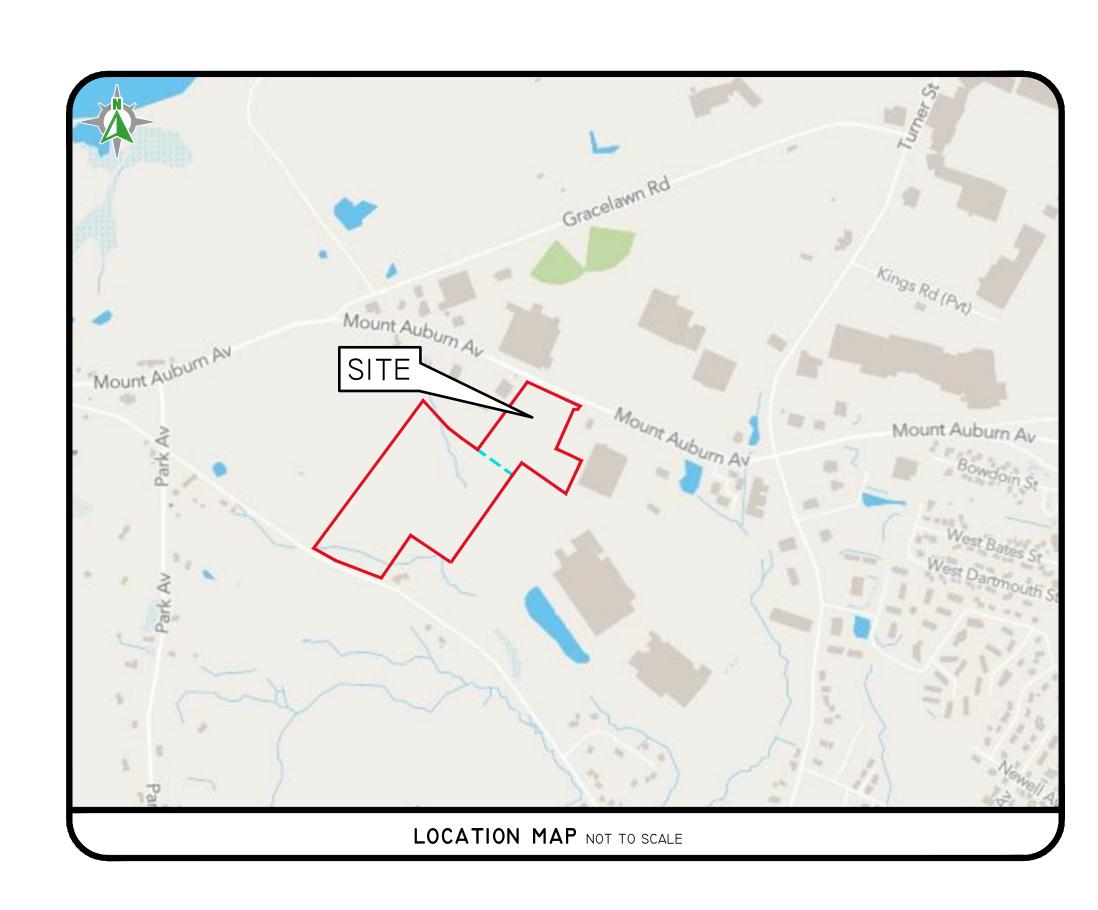
# MT. AUBURN AVENUE

Mount Auburn Avenue and Summer Street Auburn, ME

ASSESSOR'S MAP 279, LOTS 004, 006-001 & 007



## SHEET LIST TABLE

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ניסט, בסיים מועם מגעיס מסט פעיס מסטווענגמם מגיססדונג יפוונדועג נמוומונג דג מסט פעיעניסדסיו כמם ווונגאדמו כ

3. THE OWNER OF MAP 279, LOTS 004, 006-001 & 007 IS:

AFFORDABLE MID COAST HOUSING LLC PO BOX9340

AUBURN, MF 04210

THIS SITE IS LOCATED IN A FEMA FLOOD ZONE X. REFERENCE FEMA FLOOD INSURANCE RATE MAP 2300IC0326E, MAP REVISED JULY, 8TH, 2013. (FLOOD PLAIN DESCRIPTIONS SHOWN BELOW).

• ZONE X (UNSHADED) - THIS SITE IS LOCATED IN FEMA FLOOD ZONE X, WHICH ARE AREAS WHERE THERE IS MINIMAL FLOODING.

THE SITE IS WITHIN A:

MANUFACTURED HOUSING OVERLAY (TOWN) GAS ZONE (TOWN) FIREARMS RESTRICTED ZONE (TOWN) LOCAL GROWTH AREA (MEDEP

MS4 REGULATED AREA (MEDEP)

THE BOUNDARY LINE AS SHOWN ON THE ENGINEERING PLAN SET DEPICTS THE RESULTS OF AN ON-THE-GROUND SURVEY AS PERFORMED BY ANDREWS SURVEY & ENGINEERING, INC. THIS PLAN IS NOT TO BE CONSTRUED AS A BOUNDARY SURVEY PLAN AND IS NOT SUITABLE FOR RECORDING AS A SURVEY PLAN IN CONFORMANCE WITH APPLICABLE RULES AND REGULATIONS

ALL WORK PERFORMED HEREIN IS TO BE GOVERNED BY CURRENT EDITIONS OF THE MAINE DEPARTMENT OF TRANSPORTATION STANDARD DETAILS & SPECIFICATIONS, MUNICIPAL STANDARD SPECIFICATIONS AND DETAILS AND SPECIFICATIONS INCLUDED AS PART OF THE DRAWINGS. IN AREAS OF CONFLICT BETWEEN THE DIFFERENT SPECIFICATIONS, THE DESIGN PLANS AND PROJECT SPECIFICATIONS WILL TAKE PRECEDENCE OVER THE GENERAL SPECIFICATIONS AND THE DESIGN ENGINEER WILL INTERPRET THE CONSTRUCTION REQUIREMENT. THE CONTRACTOR IS ADVISED TO SUBMIT A REQUEST FOR INFORMATION (RFI) FOR ANY AREAS OF CONFLICT BEFORE COMMITTING TO 2.

THE FOLLOWING DOCUMENTS ARE CONSIDERED PART OF THE PROJECT PLANS AND THE CONTRACTOR/OWNER MUST MAINTAIN THESE DOCUMENTS AS PART OF A FULL PLAN SET:

 FROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH "MAINE FROSION AND SEDIMENT CONTROL BMPS" PUBLISHED BY THE BUREAU OF LAND AND WATER QUALITY OF THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION. THE EROSION CONTROL PLAN INCLUDES THE FOLLOWING:

•• EROSION CONTROL MEASURES

•• SEQUENCE OF CONSTRUCTION

 SHORT TERM MAINTENANCE ESTABLISHMENT OF VEGETATIVE COVER

•• CONSTRUCTION POLLUTION PREVENTION

• STORMWATER OPERATION AND MAINTENANCE PLAN (08M). THE 08M CONTAINS:

LONG TERM MAINTENANCE

•• LONG TERM POLLUTION PREVENTION ). THIS PLAN SET REFERENCES MAINE DEPARTMENT OF TRANSPORTATION (MDOT) STANDARD DETAILS

(DESIGNATED AS MDOT DETAIL XXX(XX)). MDOT STANDARD DETAILS ARE AVAILABLE FROM MDOT. 10. THE SITE IS TO BE SERVICED BY PUBLIC WATER AND PUBLIC SEWER.

THE DRAINAGE SYSTEM IS DESIGNED TO MAINE DEP CHAPTER 500 STORMWATER MANAGEMENT REGULATIONS. THE STORMWATER MANAGEMENT SYSTEMS MEET THE MAINE DEP BEST

12. THE SITE IS PROPOSED TO BE BUILT IN ONE PHASE.

MANAGEMENT PRACTICES.

13. TEST PITS, BORINGS AND BORING LOGS WERE COMPLETED BY GEOENVIRNOMENTAL, INC. ON APRIL

4. WETLAND EDGE DELINEATED BY MICHAEL JAKUBOWSKI OF SEBAGO TECHNICS, INC USING GLOBAL POSITIONING SYSTEMS (GPS) TECHNOLOGY ON DATE APRIL OF 2021. THIS DELINEATION CONFORMS TO THE STANDARDS AND METHODS OUTLINES IN THE 1987 WETLAND DELINEATION MANUAL AND NORTHEAST REGIONAL SUPPLEMENT AUTHORED AND PUBLISHED BY THE U.S. ARMY CORPS OF

5. ANY PROPRIETARY PRODUCTS REFERENCED IN THIS PLAN SET ARE REPRESENTATIVE OF THE MINIMUM DESIGN REQUIREMENTS FOR THE PURPOSE THEY PROPOSE TO SERVE. ALTERNATIVES TO ANY PROPRIETARY PRODUCT MAY BE SUBMITTED TO THE ENGINEER OF RECORD FOR CONSIDERATION, WHICH MUST BE ACCOMPANIED BY APPROPRIATE SPECIFICATION SHEETS/DESIGN CALCULATIONS THAT DEMONSTRATE THE ALTERNATIVE(S) MEET THE MINIMUM DESIGN PARAMETERS OF THE PRODUCT SHOWN ON THE PLANS. NO ALTERNATIVES MAY BE USED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER OF RECORD.

THIS PLAN SET MAY REFERENCE AND/OR INCLUDE REPRODUCTIONS OF PROPRIETARY PRODUCTS DETAILS BY OTHERS, AND/OR THEIR ASSOCIATED SPECIFICATIONS. ANY REFERENCED OR REPRODUCED PROPRIETARY PRODUCT OR DETAIL BY OTHERS THAT IS SHOWN ON DIPRETE PLANS IS STRICTLY FOR INFORMATION/SPECIFICATION PURPOSES ONLY. DIPRETE ENGINEERING DOES NOT WARRANT ANY PROPRIETARY PRODUCTS, DETAILS BY OTHERS OR THEIR RESPECTIVE DESIGNS. IF A DIPRETE ENGINEERING PLAN INCLUDES A PROPRIETARY PRODUCT/DETAIL BY OTHERS (EITHER EXPLICITLY OR IMPLIED) AND IS STAMPED BY A REGISTERED PROFESSIONAL ENGINEER AND/OR REGISTERED LANDSCAPE ARCHITECT OF DIPRETE ENGINEERING, SAID STAMP DOES NOT EXTEND TO ANY PORTION OF THE PROPRIETARY PRODUCT/DETAIL BY OTHERS OR ITS DESIGN.

#### **SOIL INFORMATION:**

(REFERENCE: SOIL MAPPING OBTAINED FROM WEB SOIL SURVEY)

SOIL NAME DESCRIPTION

ADAMS LOAMY SAND, O TO 8 PERCENT SLOPES BUXTON SILT LOAM, 8 TO 15 PERCENT SLOPES MELROSE FINE SANDY LOAM, 8 TO 20 PERCENT SLOPES MERRIMAC FINE SANDY LOAM, 0 TO 8 PERCENT SLOPES

^^THESE ARE THE SOILS WITHIN THE PROPERTY LINE SHOWN IN THE AERIAL^^

MERRIMAC FINE SANDY LOAM, 8 TO 15 PERCENT SLOPES, ERODED

#### SOIL EROSION AND SEDIMENTATION CONTROL NOTES:

I. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH "MAINE FROSION AND SEDIMENT CONTROL BMPS" MANUAL PUBLISHED BY BUREAU OF LAND AND WATER QUALITY MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION, LATEST EDITION, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO POSSESS A COPY OF THE EROSION CONTROL

2. ALL AREAS DISTURBED DURING CONSTRUCTION AND NOT RESTORED WITH IMPERVIOUS SURFACES (BUILDINGS, PAVEMENTS, WALKS, ETC.) SHALL RECEIVE LOAM AND SEED PER DETAIL. 3. SEE GRADING AND UTILITY DRAWINGS FOR PIPE AND STRUCTURE DATA TABLES.

4. NOTE THE SOIL EROSION AND SEDIMENT CONTROL SHOWN ON THESE PLANS ARE THE MINIMUM QUANTITY/TYPE OF EROSION CONTROL DEVICES AND MATERIALS DEEMED REQUIRED BY DIPRETE ENGINEERING TO MEET THE APPLICABLE REGULATIONS

TEMPORARY SWALES MUST BE USED TO CONTROL RUNOFF DURING CONSTRUCTION OF THE PROPOSED SITE WORK. TEMPORARY SWALES MUST BE VEGETATED AFTER CONSTRUCTION. EROSION CONTROL MATS MUST BE INSTALLED, IF NECESSARY, TO PREVENT EROSION AND SUPPORT VEGETATION, AFTER CONSTRUCTION IS COMPLETE AND TRIBUTARY AREAS TO THE SWALES HAVE BEEN STABILIZED, THE TEMPORARY SWALES MUST BE CLEARED AND FINAL DESIGN, INCLUDING INSTALLATION OF THE GRASS SWALES, TO BE PER THE DESIGN PLANS.

6. ONCE THE SEDIMENT MANAGEMENT MEASURES ARE NO LONGER REQUIRED AND ALL TRIBUTARY AREAS HAVE BEEN STABILIZED, THE TEMPORARY SEDIMENT MEASURES MUST BE CLEANED AND BROUGHT TO FINAL DESIGN GRADES.

7. INLET PROTECTION MUST BE INSTALLED ON ALL CATCH BASINS ONCE CONSTRUCTED.

8. CONTRACTOR MAY MODIFY SEQUENCE OF CONSTRUCTION WITH APPROVAL FROM DESIGN ENGINEER

CONTRACTOR MUST OBTAIN ALL FEDERAL, STATE, AND MUNICIPAL APPROVALS PRIOR TO THE START OF CONSTRUCTION CONTRACTOR MUST PERFORM DAILY SWEEPING AT CONSTRUCTION ENTRANCE DURING DEMOLITION

3. ANY EXISTING BUILDING(S) AND PROPERTY PROPOSED TO REMAIN THAT ARE DAMAGED BY THE CONTRACTOR MUST BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

AND CONSTRUCTION TO MINIMIZE SEDIMENTS ON EXTERNAL STREETS.

CONTRACTOR IS RESPONSIBLE FOR REMOVING AND LEGALLY DISPOSING (R&D) ALL MATERIALS INDICATED ON THE PLANS UNLESS SPECIFIED OTHERWISE HERE IN. R&D MATERIALS MUST INCLUDE BUT ARE NOT LIMITED TO PAVEMENT, GRAVEL, CATCH BASINS, MANHOLES, GRATES/FRAMES/COVERS, AND ANY EXCESS SOIL THAT IS NOT INCORPORATED INTO THE WORK. IN ADDITION TO THOSE AREAS SPECIFICALLY DESIGNATED ON THE PLANS, ALL DISTURBED AREAS,

INCLUDING THE CONTRACTOR'S STOCKPILE AND STAGING AREAS WITHIN THE LIMIT OF WORK, MUST BE RESTORED TO MATCH THE DESIGN PLANS. CONTRACTOR MUST DOCUMENT LOCATION OF ALL SUBSURFACE UTILITIES REMAINING IN PLACE

AFTER DEMOLITION (ACTIVE AND INACTIVE/ABANDONED), LOCATION MUST BE DOCUMENTED BY FIELD SURVEY OR SWING TIES. COPIES OF LOCATION DOCUMENTATION MUST BE PROVIDED TO THE OWNER FOLLOWING COMPLETION OF DEMOLITION AND PRIOR TO START OF NEW CONSTRUCTION. A MARKER MUST BE INSTALLED TO FINISH GROUND AT ALL INSTALLED CAPS/PLUGS. THE MARKER CAN BE A POST IN CONSTRUCTION AREAS OR PAINTED ON A PERMANENT SURFACE.

ACTIVE UTILITY LINES AND STRUCTURES NOT SPECIFICALLY NOTED ON PLANS, BUT WHICH ARE ENCOUNTERED TO BE IN CONFLICT WITH THE PROPOSED WORK, MUST BE EXTENDED, PROTECTED, OR REWORKED BY THE CONTRACTOR AS DIRECTED OR REQUIRED BY THE UTILITY ENTITY OR OWNER UNLESS OTHERWISE NOTED.

CONTRACTOR MUST COORDINATE THE CUTTING AND CAPPING OF ALL UTILITIES WITH THE OWNER, THE MUNICIPALITY, AND ALL APPLICABLE UTILITY ENTITIES HAVING JURISDICTION.

INACTIVE SUBSURFACE UTILITIES NOT IN CONFLICT WITH THE PROPOSED WORK AREA MAY BE ABANDONED IN PLACE WITH WRITTEN PERMISSION FROM THE OWNER.

#### TRAFFIC NOTES

I. ALL TRAFFIC CONTROL MUST CONFORM TO THE FEDERAL HIGHWAY ADMINISTRATION (FHWA) MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) CURRENT EDITION.

2. DURING CONSTRUCTION, TRAFFIC CONES MUST BE USED FOR SEPARATION OF ACTIVE TRAFFIC FROM WORK ZONE PER MUTCD REQUIREMENTS.

3. DURING CONSTRUCTION FLAGGERS MUST BE EMPLOYED TO ENSURE SAFETY FOR INTERACTION OF CONSTRUCTION VEHICLES AND ACTIVE TRAFFIC.

ALL SIGNS, FLAGGERS, TRAFFIC CONTROL DEVICES, AND TEMPORARY TRAFFIC ZONE ACTIVITIES MUST MEET THE REQUIREMENTS OF THE MANUAL ON UNIFORM TRAFFIC (MUTCD) LATEST EDITION AND SUBSEQUENT ADDENDA.

CTION SIGNS MUST BE MOUNTED ON MAINE DOT APPROVED SUPPORTS AND MUST BE REMOVED OR COVERED WHEN NOT APPLICABLE.

#### AS-BUILT NOTES

ALL COMPONENTS OF THE DRAINAGE, SEWER, AND WATER SYSTEMS MUST BE MUST BE FIELD LOCATED PRIOR TO COVERING. NOTIFY SURVEYOR A MINIMUM OF SEVENTY-TWO (72) HOURS IN ADVANCE OF NEED FOR FIELD LOCATION OF IMPROVEMENTS. SURVEYOR MUST PROVIDE OWNER AND CONTRACTOR WITH WRITTEN NOTICE OF COMPLETION OF FIELD WORK PRIOR TO CONTRACTOR COVERING IMPROVEMENTS. OWNER/DIPRETE WILL NOT ACCEPT FIELD MEASUREMENTS FROM THE SITE CONTRACTOR.

#### LAYOUT AND MATERIALS:

I. DIMENSIONS ARE FROM THE FACE OF CURB, FACE OF BUILDING, FACE OF WALL, AND CENTER LINE OF PAVEMENT MARKINGS, UNLESS OTHERWISE NOTED.

2. CURBING MUST BE PRECAST CONCRETE OR AS LABELED ON THE PLANS. 3. SIDEWALK MUST BE CONCRETE OR AS LABELED ON THE PLANS.

4. SYMBOLS AND LEGENDS OF PROJECT FEATURES ARE GRAPHIC REPRESENTATIONS AND ARE NOT NECESSARILY SCALED TO THEIR ACTUAL DIMENSIONS OR LOCATIONS ON THE DRAWINGS. THE CONTRACTOR MUST REFER TO THE DETAIL SHEET DIMENSIONS, MANUFACTURERS' LITERATURE. SHOP DRAWINGS AND FIELD MEASUREMENTS OF SUPPLIED PRODUCTS FOR LAYOUT OF THE PROJECT

5. SEE ARCHITECTURAL DRAWINGS FOR EXACT BUILDING DIMENSIONS AND DETAILS PERTAINING TO THE BUILDING. INCLUDING SIDEWALKS, RAMPS, BUILDING ENTRANCES, STAIRWAYS, UTILITY PENETRATIONS, CONCRETE DOOR PADS, COMPACTOR PAD, LOADING DOCKS, BOLLARDS, ETC.

6. PROPOSED BOUNDS AND ANY EXISTING PROPERTY LINE MONUMENTATION DISTURBED DURING CONSTRUCTION MUST BE SET OR RESET BY A PROFESSIONAL LICENSED SURVEYOR.

7. CONTRACTOR MUST NOT RELY SOLELY ON ELECTRONIC VERSIONS OF PLANS, SPECIFICATIONS, AND DATA FILES THAT ARE OBTAINED FROM THE DESIGNERS. CONTRACTOR MUST VERIFY LOCATION OF PROJECT FEATURES IN ACCORDANCE WITH THE STAMPED PAPER COPIES OF THE PLANS AND

SPECIFICATIONS THAT ARE SUPPLIED AS PART OF THE CONTRACT DOCUMENTS. 8. ALL GUARDRAIL ONSITE MUST BE STEEL BACKED TIMBER GUARDRAIL WITH STEEL POSTS, IN CONFORMANCE WITH SECTION 5.4.1.7 OF THE AASHTO ROADSIDE DESIGN GUIDE. ALTERNATIVE GUARDRAILS WILL BE CONSIDERED BY THE DESIGN ENGINEER IF THEY ARE DOT APPROVED FQUAL AND ACCEPTABLE TO THE OWNER. ALTERNATIVES MUST BE APPROVED IN WRITING BY THE OWNER AND DESIGN ENGINEER PRIOR TO CONSTRUCTION.

9. INFRARED TREATMENT OF PAVEMENT IS REQUIRED AT ALL CURB CUTS, ANY DISTURBED PAVEMENT ON ROADWAYS AND WHERE ANY NEW PAVEMENT MEETS EXISTING PAVEMENT

10. ALL EXISTING PAVEMENT MARKING REMOVED AS INCIDENTAL DURING CONSTRUCTION MUST BE REPLACED IN-KIND FOLLOWING COMPLETION OF CONSTRUCTION UNLESS OTHERWISE NOTED.

II. NEW PAVEMENT MARKING MUST BE FAST DRYING TRAFFIC PAINT, MEETING THE REQUIREMENTS OF AASHTO M248 TYPE F. PAINT MUST BE APPLIED AS SPECIFIED BY THE MANUFACTURER.

#### **GRADING AND UTILITY NOTES:**

I. CONSTRUCTION TO COMMENCE SPRING 2022 OR UPON RECEIPT OF ALL NECESSARY APPROVALS. 2. UTILITY INFORMATION DEPICTED HEREON IS COMPILED USING PHYSICAL EVIDENCE LOCATED IN THE FIELD. UTILITIES DEPICTED HEREON MAY NOT NECESSARILY REPRESENT ALL EXISTING UTILITIES. CONTRACTORS AND/OR DESIGNERS NEED TO CONTACT DIG-SAFE SYSTEMS, INC. (I-888-DIG-SAFE) AND FIELD VERIFY EXISTING UTILITIES PRIOR TO CONSTRUCTION AND/OR EXCAVATION. PROTECT EXISTING ONSITE SEWER PIPE AND ADJUST MANHOLE RIMS TO GRADE WHERE APPLICABLE.

THE CONTRACTOR MUST COORDINATE WITH ALL OF THE APPROPRIATE UTILITY COMPANIES FOR AGREEMENTS TO SERVICE THE PROPOSED BUILDING. THIS MUST BE DONE PRIOR TO CONSTRUCTION. NO REPRESENTATIONS ARE MADE BY DIPRETE ENGINEERING THAT UTILITY SERVICE IS AVAILABLE. 4. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING FINISH GRADING AND DRAINAGE AROUND THE BUILDING TO ENSURE SURFACE WATER AND/OR GROUNDWATER ARE DIRECTED AWAY FROM THE

STRUCTURE 5. PRIOR TO START OF CONSTRUCTION, CONTRACTOR MUST VERIFY EXISTING PAVEMENT ELEVATIONS AT INTERFACE WITH PROPOSED PAVEMENTS, AND EXISTING GROUND ELEVATIONS ADJACENT TO DRAINAGE OUTLETS TO ASSURE PROPER TRANSITIONS BETWEEN EXISTING AND PROPOSED FACILITIES. CONTRACTOR MUST NOTIFY DESIGN ENGINEER OF ANY DISCREPANCIES PRIOR TO

6. ALL PROPOSED UNDERGROUND UTILITIES SERVING THE SITE AND BUILDINGS MUST BE COORDINATED WITH OWNER, ARCHITECT, AND ENGINEER PRIOR TO INSTALLATION.

7. ALL RETAINING WALLS AND STEEP SLOPES ARE SUBJECT TO FINAL STRUCTURAL DESIGN. DIPRETE ENGINEERING IS NOT PROVIDING THE STRUCTURAL DESIGN OF THESE ITEMS. ALL WALLS AND STEEP SLOPES MUST BE DESIGNED AND BUILT UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER SUITABLY QUALIFIED IN GEOTECHNICAL ENGINEERING AND CERTIFIED TO THE OWNER PRIOR TO THE COMPLETION OF THE PROJECT. SHOP DRAWINGS MUST BE SUBMITTED PRIOR TO CONSTRUCTION. FINAL STRUCTURAL DESIGN MUST INCORPORATE THE INTENT OF THE GRADING SHOWN ON THESE PLANS AND ALL WORK MUST BE WITHIN THE LIMIT OF DISTURBANCE SHOWN ON THE PLANS.

8. ALL CUT AND FILL WORK MUST BE DONE UNDER THE DIRECTION OF A PROFESSIONAL GEOTECHNICAL ENGINEER, WITH TESTING AND CERTIFICATION PROVIDED TO THE APPLICANT AT THE COMPLETION OF THE PROJECT. DIPRETE ENGINEERING IS NOT PROVIDING THE FILL SPECIFICATION, GEOTECHNICAL ENGINEERING, STRUCTURAL ENGINEERING SERVICES, OR SUPERVISION AS PART OF THESE DRAWINGS.

9. MATERIAL STOCKPILES MUST NOT BE LOCATED IN THE RIGHT-OF-WAY, AND TRENCHES MUST NOT BE LEFT OPEN OVERNIGHT

10. ALL LOAM IN DISTURBED AREAS MUST BE STOCKPILED FOR FUTURE USE. ALL STOCKPILED LOAM MUST BE REUSED ONSITE. II. ALL EXCESS SOIL, TREES, ROCKS, BOULDERS, AND OTHER REFUSE, MUST BE DISCARDED OFF SITE IN

12. THE SITE WILL HAVE 3" BITUMINOUS BERM AND/OR 6" CONCRETE/GRANITE CURBING. SITE GRADING/CONTOURS SHOWN ON THE PLANS DO NOT NECESSARILY REFLECT THE APPROPRIATE BERM/CURBING REVEAL. CONTRACTOR MUST INSTALL CURBING WITH APPROPRIATE REVEAL UNLESS

ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS. STUMPS MUST BE GROUND ON

13. NO STUMP DUMPS ARE PROPOSED ON SITE.

14. ALL DRAINAGE OUTEALLS ARE DESIGNED TO BE INSTALLED AT EXISTING GROUND ELEVATION. CONTRACTOR MUST IMMEDIATELY NOTIFY DIPRETE ENGINEERING OF ANY DISCREPANCIES WHERE EXISTING GROUND IS HIGHER THAN OUTFALL DESIGN ELEVATION. ANY RESOLUTION OF DISCREPANCIES BY THE CONTRACTOR, UNLESS AUTHORIZED IN WRITING IN ADVANCE BY THE OWNER AND DIPRETE ENGINEERING. IS DONE AT THE CONTRACTOR'S RISK.

15. CONTRACTOR MUST PROVIDE SAW CUTTING AND FULL DEPTH PAVEMENT RESTORATION IN AREAS WHERE PAVEMENT AND/OR SIDEWALK IS REMOVED FOR UTILITY INSTALLATION.

16. IF ROADWAY SURFACE PAVEMENT COURSE IS NOT TO BE INSTALLED FOR 12 MONTHS OR MORE AFTER INSTALLATION OF DRAINAGE STRUCTURES, ALL CATCH BASIN RIMS MUST BE SET AT BINDER GRADE AND RAISED TO FINAL PAVEMENT GRADE PRIOR TO PLACEMENT OF SURFACE COURSE.

ALL DRAINAGE PIPING MUST BE ADS N-12 DUAL WALL HIGH-DENSITY POLYETHYLENE (HDPE) WITH WATERTIGHT JOINTS WHERE INSTALLED WITHIN THE SEASONAL HIGH GROUNDWATER, UNLESS NOTED OTHERWISE ON THE PLANS OR IN THE SPECIFICATIONS.

DRAINAGE STRUCTURES MUST BE FURNISHED AND INSTALLED IN ACCORDANCE WITH ALL APLICABLE REGULATIONS. ALL DRAINAGE STRUCTURES AND PIPES MUST BE WATERTIGHT

DRAINAGE CONNECTIONS FROM ALL YARD DRAINS (YD), AREA DRAINS (AD), TRENCH DRAINS (TD), FRENCH DRAINS (FD), WALL DRAINS (WD), AND DOWNSPOUTS (DS) ARE SHOWN FOR SCHEMATIC PURPOSES ONLY. THE LEVEL OF DETAIL SHOWN DOES NOT INCLUDE ALL JOINTS THAT MAY BE REQUIRED FOR CONSTRUCTION. ALL FITTINGS AND PIPE SLOPES TO TIE INTO MAIN TRUNK LINE MUST BE FIELD FIT BY CONTRACTOR.

ALL SANITARY SEWER PIPING TO BE SDR 35 UNLESS NOTED OTHERWISE ON THE PLANS OR IN THE SPECIFICATIONS. ALL SEWER IMPROVEMENTS MUST COMPLY WITH THE MUNICIPAL WATER & SEWER AUTHORITY AND ANY APPLICABLE AUTHORITY HAVING JURISDICTION, INCLUDING (BUT NOT LIMITED TO) MATERIALS, DIMENSIONS AND ACCESS COVERS, CONTRACTOR MUST SUBMIT SHOP DRAWINGS FOR APPROVAL BY ENGINEER OF RECORD PRIOR TO CONSTRUCTION. ALL FITTINGS, STRUCTURE SEALS AND CONNECTIONS AT OR BELOW ELEVATION SPECIFIED IN APPLICABLE REGULATIONS MUST BE WATERTIGHT. ALL ACCESS OPENINGS AT OR BELOW ELEVATION SPECIFIED IN APPLICABLE REGULATIONS MUST BE BOLT DOWN.

ALL WATER LINES MUST CONFORM TO APPLICABLE REGULATIONS. ALL WATER LINES MUST BE CEMENT LINED DUCTILE IRON PIPE (CLDIP). ALL WATER MAIN IMPROVEMENTS MUST COMPLY WITH THE LOCAL MUNICIPALITY WATER & SEWER AUTHORITY AND ANY APPLICABLE AUTHORITY HAVING JURISDICTION. INCLUDING (BUT NOT LIMITED TO) MATERIALS, DIMENSIONS AND ACCESS COVERS. CONTRACTOR TO PROVIDE SHOP DRAWINGS AND SUBMITTALS TO THE ENGINEER OF RECORD FOR APPROVAL FOR ALL WATER IMPROVEMENTS AND APPLIETENANCES INCLUDING BUT NOT LIMITED TO PIPES VALVES FITTINGS HEAT ENCLOSURES, AND BACKFLOWS. ALL ACCESS OPENINGS AT OR BELOW ELEVATION SPECIFIED IN APPLICABLE REGULATIONS ARE TO BE BOLT DOWN.

IN THE CASE OF ANY NEW HYDRANT INSTALLED IN OR NEXT TO AN EXISTING SIDEWALK, THE CONTRACTOR MUST INCREASE THE WIDTH OF THE SIDEWALK, AS NECESSARY, TO MAINTAIN A MINIMUM OF 3'-0" CLEAR WIDTH FROM THE OUTERMOST COMPONENTS OF THE HYDRANT TO THE EDGE OF THE SIDEWALK. THE 3'-0" SIDEWALK WIDTH IS REQUIRED ONLY ON ONE SIDE OF THE HYDRANT TO PROVIDE A CLEAR PATH ON THE SIDEWALK.

PROPOSED ELECTRIC, CABLE AND DATA UTILITIES ARE SHOWN SCHEMATICALLY AND ARE PROPOSED TO BE UNDERGROUND. OWNER AND CONTRACTOR MUST COORDINATE FINAL DESIGN WITH APPROPRIATE UTILITY COMPANIES. ALL WORK MUST BE IN ACCORDANCE WITH EACH UTILITY COMPANY'S STANDARDS AND DETAILS, AS WELL AS LOCAL AND FEDERAL REGULATIONS, THIS INCLUDES BUT IS NOT LIMITED TO POLES, TRANSFORMERS, PULL BOXES, CONCRETE PADS, CONCRETE ENCASEMENTS AND CONDUITS. CONNECTION POINTS FOR ELECTRIC AND TELECOM UTILITIES, AT THE EXISTING INFRASTRUCTURE, ARE CURRENTLY SHOWN AS UNDERGROUND UTILITIES. THESE UTILITIES MAY BE UNDERGROUND OR OVERHEAD AND MUST BE COORDINATED WITH NATIONAL GRID/APPROPRIATE UTILITY AUTHORITY PRIOR TO CONSTRUCTION. ALL ACCESS OPENINGS AT OR BELOW ELEVATION SPECIFIED IN APPLICABLE

SITE LIGHTING (TEMPORARY AND PERMANENT) MUST BE DIRECTED AWAY FROM AND SHIELDED FROM ENVIRONMENTALLY SENSITIVE AREAS AND ABUTTING LANDS. EXACT LOCATIONS OF LIGHT POLE MUST BE COORDINATED WITH OTHER UTILITIES. FINAL LIGHTING AND CONDUIT LOCATIONS BY OTHERS.

AMERICANS WITH DISABILITIES ACT (ADA) NOTES

MAINTAIN COMPLIANCE WITH THE CONTROLLING STANDARD.

REGULATIONS MUST BE BOLT DOWN WHERE APPLICABLE.

I. ALL IMPROVEMENTS MUST COMPLY WITH THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES" (ADAAG) BY THE US DEPARTMENT OF JUSTICE (CURRENT EDITION).

2. MAXIMUM RUNNING SLOPE ALONG ALL ACCESSIBLE PATHS OF TRAVEL MUST BE 4.5% (0.045 FT/FT), AND MAXIMUM CROSS SLOPE ACROSS ALL ACCESSIBLE PATHS OF TRAVEL MUST BE 1.5%

3. ADA PARKING SPACES AND LOADING AREAS: THE STEEPEST SLOPE OF THE SPACE, MEASURED IN ANY DIRECTION (INCLUDING DIAGONALLY), MUST BE LESS THAN OR EQUAL TO 2% (0.02 FT/FT). DIPRETE ENGINEERING GENERALLY RECOMMENDS A MAXIMUM OF 1.4% (0.014 FT/FT) BE USED FOR BOTH RUNNING AND CROSS SLOPES IN ORDER TO COMPLY.

4. A MINIMUM 5'X5' LANDING MUST BE PROVIDED IN FRONT OF ALL PUBLICLY ACCESSIBLE BUILDING

ENTRANCES/ EGRESSES. THE STEEPEST SLOPE OF THE LANDING, MEASURED IN ANY DIRECTION

(INCLUDING DIAGONALLY), MUST BE LESS THAN OR EQUAL TO 2% (0.02 FT/FT). DIPRETE ENGINEERING GENERALLY RECOMMENDS A MAXIMUM OF 1.4% (0.014 FT/FT) BE USED FOR BOTH RUNNING AND CROSS SLOPES IN ORDER TO COMPLY. 5. FOR EVERY 6 (OR FRACTION OF 6) ADA PARKING SPACES, AT LEAST ONE MUST BE A VAN PARKING

6. NOTWITHSTANDING THE NOTES LISTED ABOVE, TOWN OR STATE-SPECIFIC STANDARDS MAY BE MORE STRINGENT AND OVERRULE. IT IS THE RESPONSIBILITY OF THE USER OF THIS PLAN SET TO

SPACE. FOR EXAMPLE, IF 7 ADA PARKING SPACES ARE REQUIRED, A MINIMUM OF 2 MUST BE VAN

7. NOTE THAT THE GRADING/PLAN VIEWS AND DETAILS CONTAINED WITHIN THIS PLAN SET MAY NOT SHOW THE DETAIL NECESSARY TO CONSTRUCT WALKWAYS, RAMPS AND SPACES TO COMPLY WITH THE ABOVE REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE THE LEVEL OF CARE NECESSARY TO BE CERTAIN THAT THE CONSTRUCTED PRODUCT MEETS ADA/CONTROLLING STANDARDS. IN THE EVENT OF ANY NON COMPLIANCE THE CONTRACTOR MUST NOTIFY THE DESIGNER BEFORE CONSTRUCTION FOR ADVICE IN FINDING A RESOLUTION.

#### ABBREVIATIONS LEGEND

AMERICANS WITH DISABILITY AC N/F NOW OR FORMERLY AUTHORITY HAVING JURISDICTION OHW OVERHEAD WIRE ASSESSOR'S PE POLYETHYLENE **ARCHITECT** PROPERTY LINE BOTTOM OF CURB PR PROPOSED BOTTOM OF TESTHOLE PVC POLYVINYL CHLORIDE BITUMINOUS (BERM) R RADIUS BIORETENTION R&D REMOVE AND DISPOSE BASEMENT SLAB ELEVATION RCP REINFORCED CONCRETE PIPE FINISHED GRADE AT BOTTOM OF WALL RL ROOF LEADER CATCH BASIN ROW RIGHT-OF-WAY CALCULATED S SLOPE CENTERLINE SD SUBDRAIN CHORD ANGLE SED SEDIMENT FOREBAY CONCRETE LINED DUCTILE IRON PIPE SF SQUARE FOOT CLEAN OUT SFL STATE FREEWAY LINE CONCRETE SFM SEWER FORCE MAIN SG SLAB ON GRADE ELEVATION DOUBLE CATCH BASIN SHL STATE HIGHWAY LINE DROP INLET SMH SEWER MANHOLE DRAINAGE MANHOLE SNDF SAND FILTER **DETENTION POND** SS SIDE SLOPE ELEVATION STA STATION EDGE OF PAVEMENT TC TOP OF CURB EROSION AND SEDIMENT CONTROL TD TRENCH DRAIN TF TOP OF FOUNDATION FLARED END SECTION TRANS TRANSITION TW TOP OF WALL (FINISHED GRADE AT TOP OF WALL

FINISH FLOOR ELEVATION GARAGE SLAB ELEVATION GROUND WATER TABLE TYP TYPICAL UDS UNDERGROUND HIGH CAPACITY CATCH BASIN GRATE DETENTION SYSTEM HIGH DENSITY POLYETHYLENE UIS UNDERGROUND INLINE DRAIN INFILTRATION SYSTEM UP UTILITY POLE INFILTRATION POND WO WALKOUT ELEVATION

WQ WATER QUALITY

LIMIT OF DISTURBANCE LIGHT POLE

LINEAR FEET

SITE CALLOUTS LEGEND

(609(10)) MDOT STD CONCRETE CURB

( 4W ) 4" PAINTED WHITE MARKINGS

REQUIREMENTS.

MDOT PAVEMENT MARKINGS

609(08) MDOT PRECAST CONCRETE TRANSITION CURB

6W ) 6" WHITE EPOXY RESIN PAVEMENT MARKINGS

( 12W ) STOP LINE (REFERENCE MUTCD SECTION 3B.16)

AND MUTCD REGULATIONS AND REQUIREMENTS.

AND MUTCD REGULATIONS AND REQUIREMENTS.

ADA SPACE PAVEMENT MARKINGS MUST COMPLY WITH ALL ADA

ADA CURB RAMP MUST COMPLY WITH ALL ADA REGULATIONS AND

VAN ADA SPACE PAVEMENT MARKINGS MUST COMPLY WITH ALL ADA

(609(09)) MDOT PRECAST CONCRETE VERTICAL CURB

(609(07)) MDOT CURB TYPE I

LANDSCAPE ARCHITECT

DCB

MECHANICAL/ELECTRICAL/ PLUMBING ENGINEER

#### EXISTING LEGEND

(AS SHOWN ON PROPOSED PLANS) NOT ALL ITEMS SHOWN WILL APPEAR ON PLANS

PROPERTY LINE NAIL FOUND/SET ASSESSORS LINE DRILL HOLE FOUND/SET \_\_\_\_\_ IRON ROD FOUND/SET **BUILDING** BOUND FOUND/SET BRUSHLINE SIGN TREELINE BOLLARD GUARDRAII SOIL EVALUATION FENCE CATCH BASIN RETAINING WALL DOUBLE CATCH BASIN DCB STONE WALL DRAINAGE MANHOLE DMH MINOR CONTOUR LINE FES FLARED END SECTION MAJOR CONTOUR LINE \_ \_ \_ \_ \_ 10 \_ \_ \_ \_ \_ GUY POLE ELECTRIC MANHOLE WATER LINE SEWER LINE UP UTILITY/POWER POLE SEWER FORCE MAIN LIGHTPOST GAS LINE SMH SEWER/SEPTIC MANHOLE SEWER VALVE ELECTRIC LINE OVERHEAD WIRES CLEANOUT DRAINAGE LINE HYDRANT SOILS LINES IRRIGATION VALVE WATER VALVE FEMA BOUNDARY WELL MONITORING WELL STREAM UNKNOWN MANHOLE WETLAND LINE & FLAG GAS VALVE

**~~~** 

PROPOSED LEGEND

NOT ALL ITEMS SHOWN WILL APPEAR ON PLANS PROPERTY LINE

----- STATE HIGHWAY LINE

BUILDING SETBACKS \_ \_ \_ \_ \_ \_ CHAINLINK FENCE GUARDRAIL SEE LAYOUT AND MATERIALS NOTE 8. RETAINING WALL MINOR CONTOUR LIN MAJOR CONTOUR LINE SPOT ELEVATION EDGE OF PAVEMENT BITUMINOUS BERM CONCRETE CURB

ASPHALT PAVEMENT

HEAVY DUTY ASPHALT

HEAVY DUTY CONCRETE

ASPHALT SIDEWALK

PAVEMENT

CONCRETE

SAWCUT LINE

STATE FREEWAY LINE

III DING FOOTPRINT ---- BUILDING OVERHANG

111111111111111111

SINGLE LIGHT DOUBLE LIGHT OVERHANGING LIGHT

ACCESSIBLE PARKING SPACE SYMBOLS BUILDING INGRESS/EGRESS

ELECTRIC, TELEPHONE, CABLE LIMIT OF DISTURBANCE/ LIMIT OF CLEARING SEDIMENTATION BARRIER, SIL FENCE, COMPOST SOCK OR APPROVED EQUAL SLOPES STEEPER THAN 3:1 (2:1 OR I:I SLOPES) INFILTRATION OUTLINE

BENCH MARK

 $-- \rightarrow -- \rightarrow -- \rightarrow -- \rightarrow -$  SWALE

——— OHW ————

STREAM FLOW DIRECTION

DRAINAGE LINE

PERFORATED SUBDRAIN

SEWER FORCE MAIN

HYDRANT ASSEMBLY

WATER SHUT OFF

WATER VALVE

SEWER LINE

THRUST BLOCK

OVERHEAD WIRE

**BIO RETENTION** 

CATCH BASIN

HEADWALL

SEWER MANHOLE

GAS LINE

WATER LINE

POND ACCESS

SAND FILTER

DOUBLE CATCH BASIN DRAIN MANHOLE FLARED END SECTION

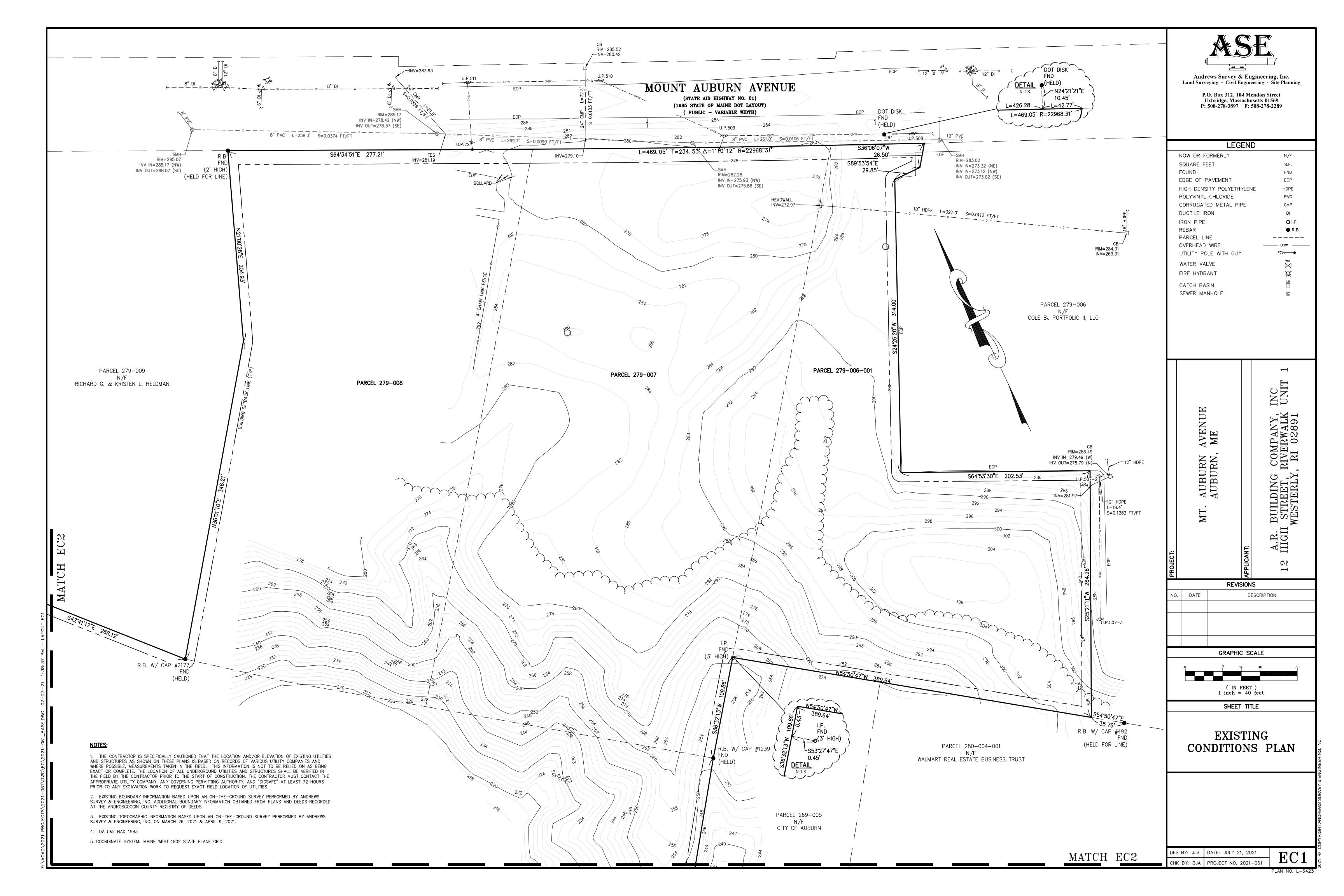
#### NOTE: THIS PLAN MUST BE REPRODUCED IN COLOR

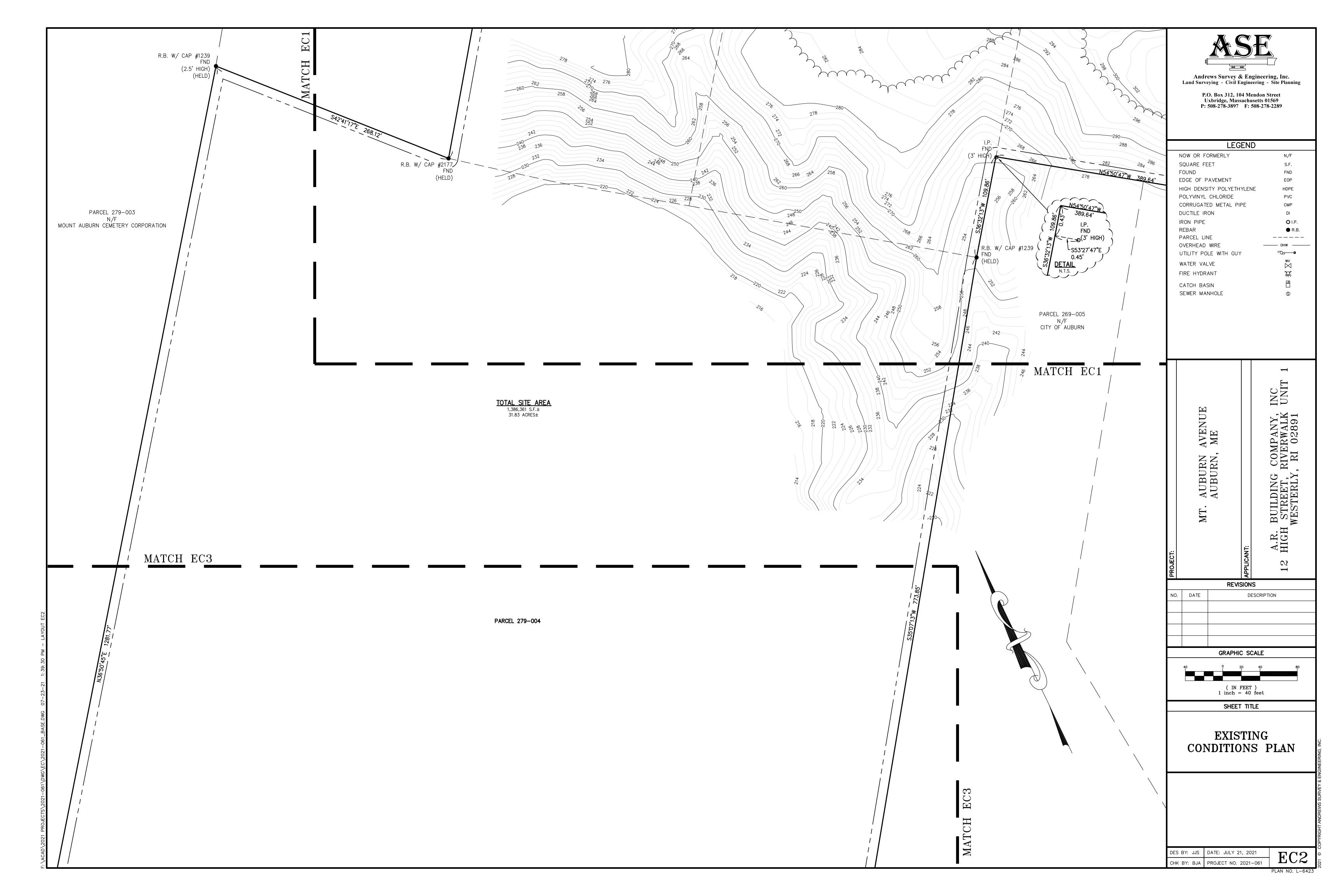
#### JTILITY NOTE

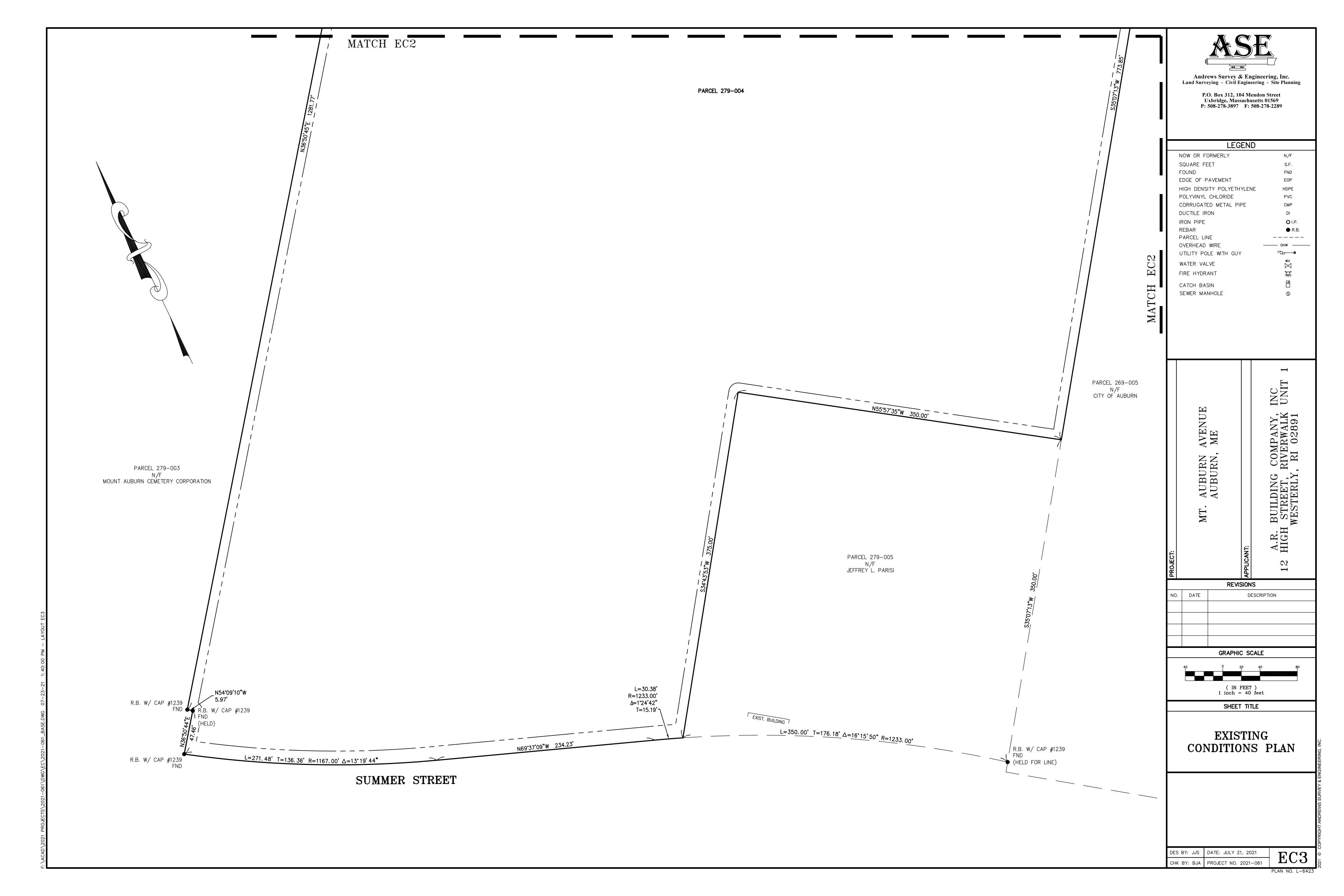
ALL UNDERGROUND UTILITIES SHOWN ON THESE PLANS WERE PROVIDED BY OTHERS AND ARE APPROXIMATE ONLY. LOCATIONS MUST BE DETERMINED IN THE FIELD BEFORE EXCAVATION, BLASTING, UTILITY INSTALLATION, BACKFILLING, GRADING, PAVEMENT RESTORATION, AND ALL OTHER SITE WORK. ALL UTILITY COMPANIES, PUBLIC AND PRIVATE, MUST BE CONTACTED INCLUDING THOSE IN CONTROL OF UTILITIES NOT SHOWN ON THESE DOCUMENTS. CONTACT DIG SAFE A MINIMUM OF 72 WORKING HOURS PRIOR TO ANY CONSTRUCTION AT 811. DIG SAFE IS RESPONSIBLE FOR CONTACTING MEMBER UTILITY COMPANIES. DIG SAFE MEMBER UTILITY COMPANIES ARE RESPONSIBLE TO MARK ONLY THE FACILITIES THAT THEY OWN OR MAINTAIN. NON DIG SAFE MEMBER COMPANIES ARE NOT NOTIFIED BY DIG SAFE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INVESTIGATE AND NOTIFY IF ANY PRIVATELY OWNED OR NON DIG SAFE MEMBER UTILITIES ARE IN THE AREA.

PER THE CODE OF FEDERAL REGULATIONS - TITLE 29, PART 1926 IT IS THE SITE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ACCURATE UNDERGROUND UTILITY LINE LOCATIONS FROM THE UTILITY COMPANIES, UTILITY OWNERS AND, OR VIA UNDERGROUND UTILITY LOCATION EQUIPMENT AS NEEDED TO ESTABLISH ACCURATE LOCATIONS PRIOR TO ANY EXCAVATION. THE USE OF PROFESSIONAL UTILITY LOCATING COMPANIES PRIOR TO ANY EXCAVATION IS RECOMMENDED.

DIPRETE ENGINEERING IS NOT A PROFESSIONAL UTILITY LOCATION COMPANY, AND IS NOT RESPONSIBLE FOR UNDERGROUND UTILITIES, DEPICTED OR NOT, EITHER IN SERVICE OR ABANDONED. ANY SIZES, LOCATIONS, EXISTENCE, OR LACK OF EXISTENCE OF UTILITIES SHOWN ON THESE PLANS SHOULD BE CONSIDERED APPROXIMATE UNTIL VERIFIED BY A PROFESSIONAL UTILITY LOCATION COMPANY. DIPRETE ENGINEERING ASSUMES NO RESPONSIBILITY FOR DAMAGES INCURRED.

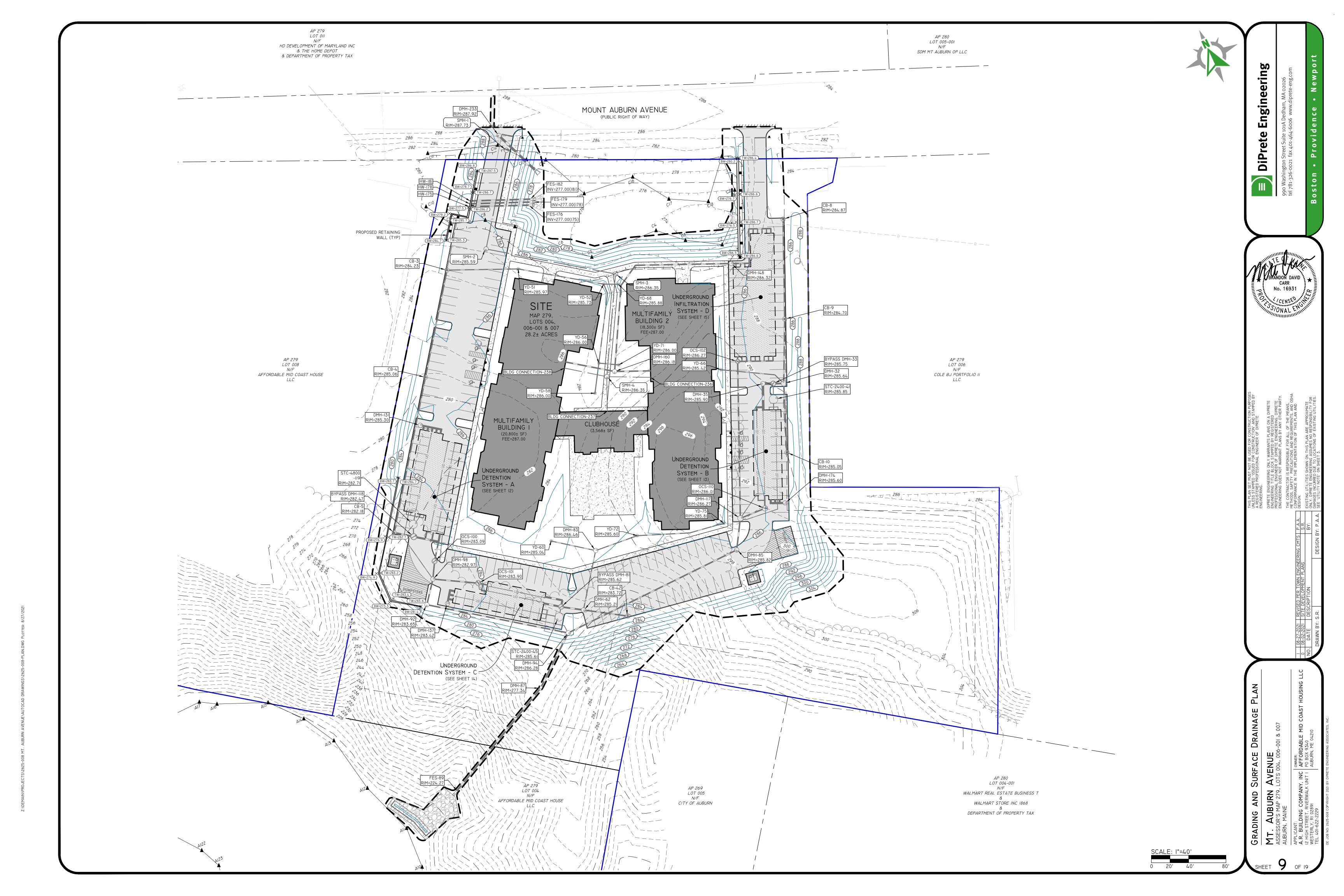


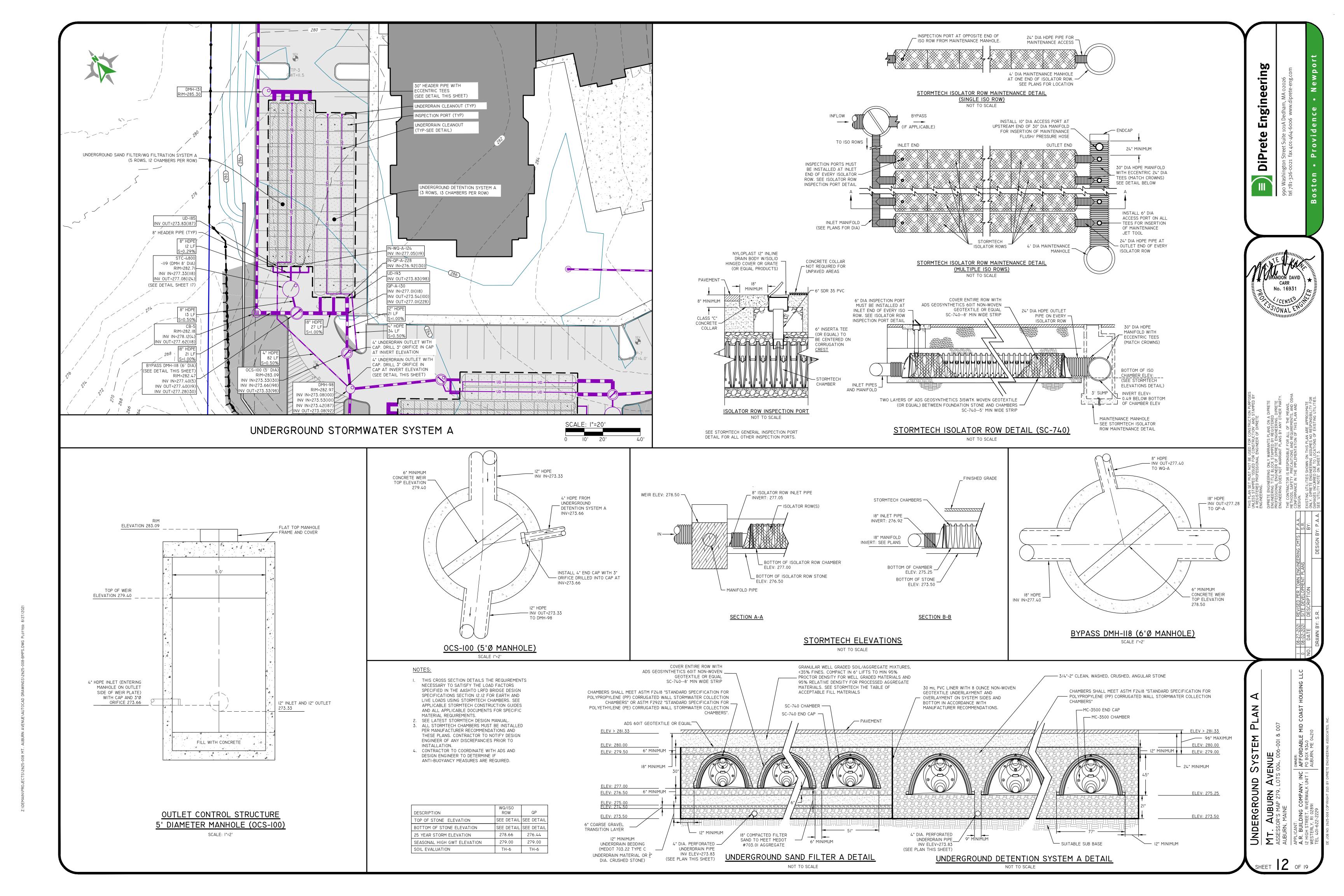


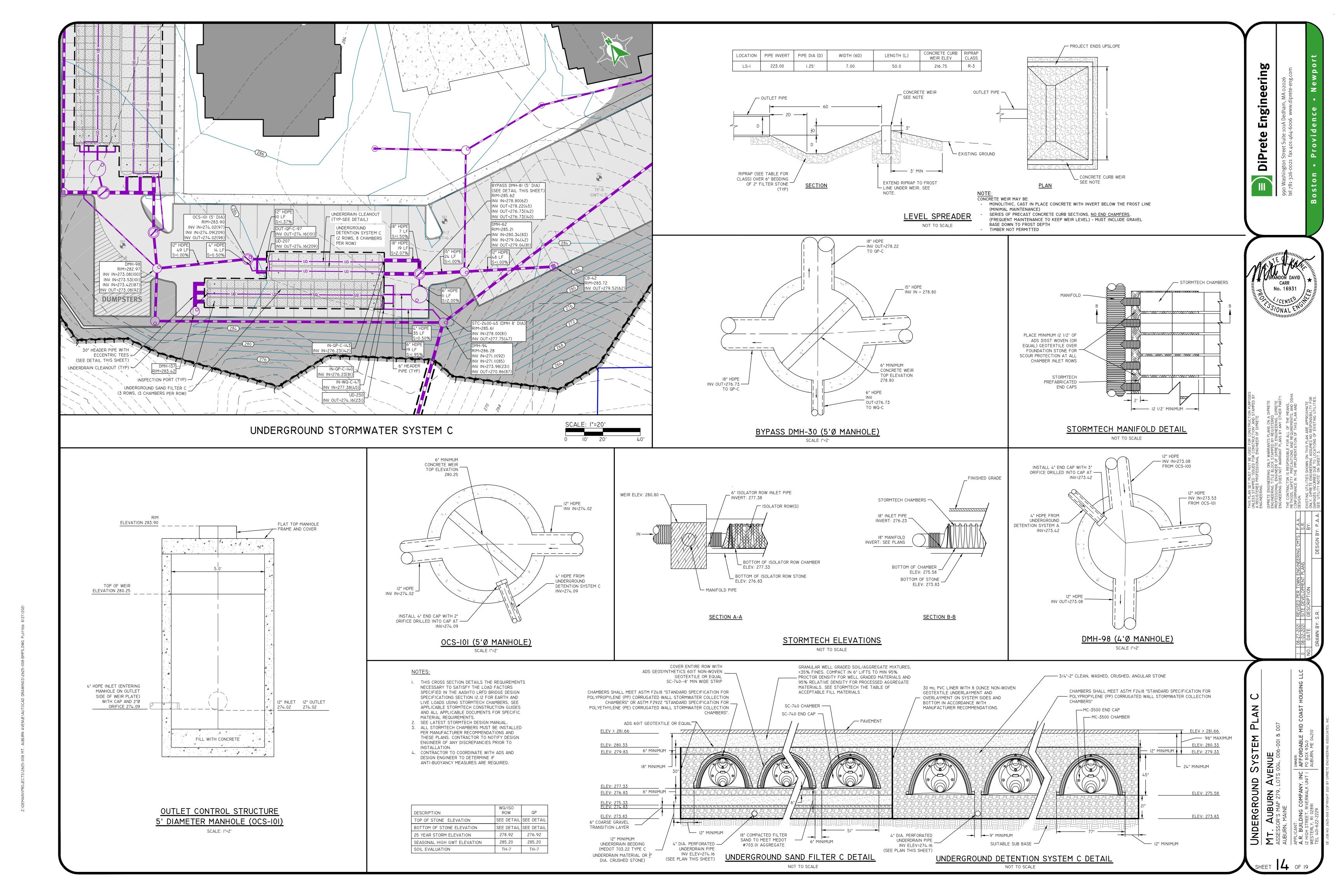


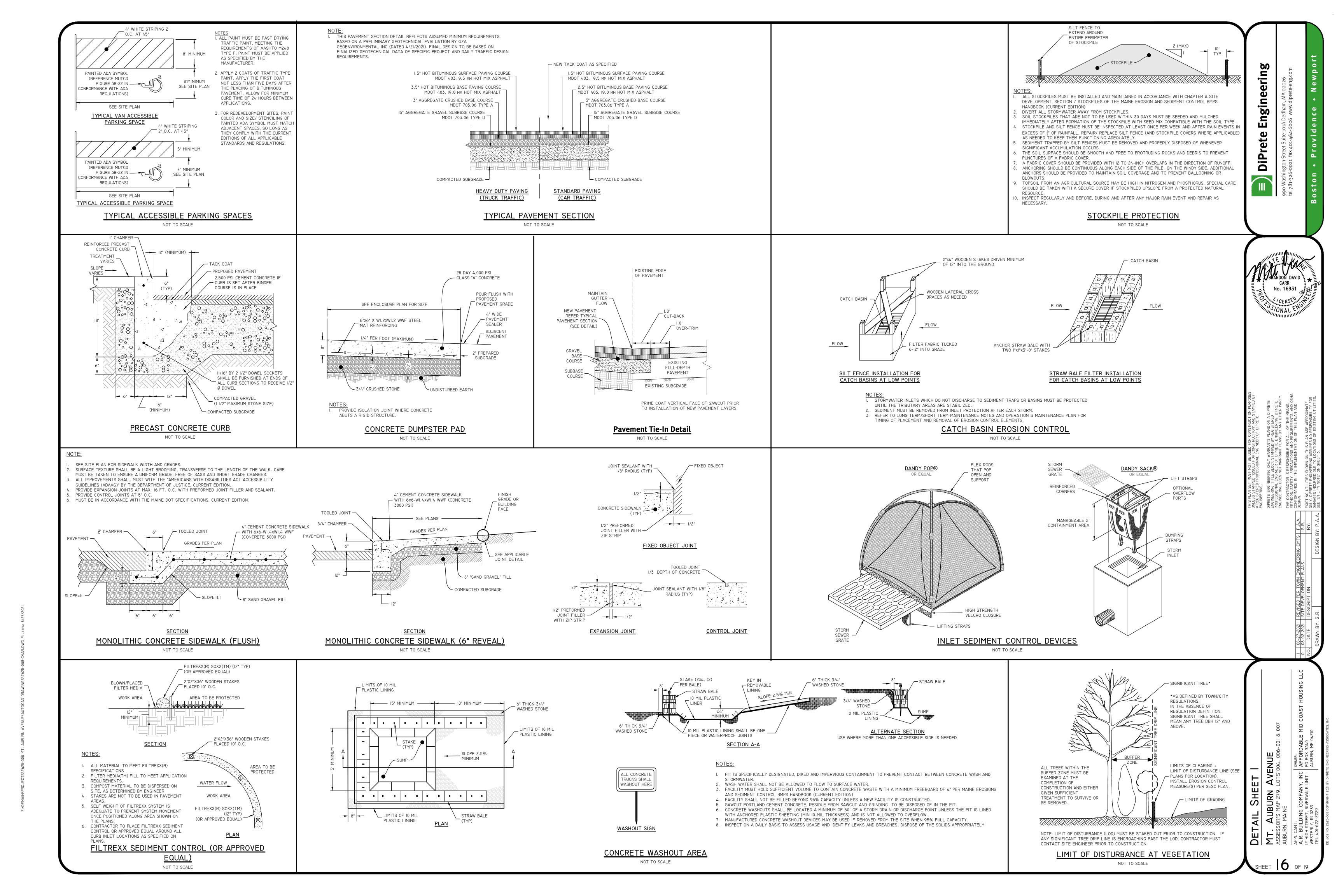
Z:\DEMAIN\PROJECTS\2625-008 MT. AUBURN AVENUE\AUTOCAD DRAWINGS\2625-008-PLAN.DWG PLOTTED: 8/

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STORMCEPTOR DESIGN NOTES

CONTECH

THE STANDARD STC2400 CONFIGURATION IS SHOWN.

FRAME AND COVER NOT TO SCALE

SITE SPECIFIC DATA REQUIREMENTS WATER QUALITY FLOW RATE (cfs [L/s]) PEAK FLOW RATE (cfs [L/s]) RETURN PERIOD OF PEAK FLOW (yrs) PIPE DATA: INLET PIPE 1 INLET PIPE 2 OUTLET PIPE NOTES / SPECIAL REQUIREMENTS:

24" [610]Ø

-OUTLET

\$\$\$\$\$\$\$\$\$

— 8'-0" [2438]Ø — **SECTION A-A** 

- GENERAL NOTES
  1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
  2. FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.ContechES.com
- 3. STORMCEPTOR WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
- 4. STORMCEPTOR STRUCTURE SHALL MEET AASHTO HS20 LOAD RATING, ASSUMING EARTH COVER OF 0' 2' [610], AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION.
- CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE CONTECH LOGO. STORMCEPTOR STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C478 AND AASHTO LOAD FACTOR DESIGN METHOD. 6. ALTERNATE UNITS ARE SHOWN IN MILLIMETERS [mm].

INSTALLATION NOTES

A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.

- B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STORMCEPTOR MANHOLE CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
- CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET AND OUTLET PIPE(S). MATCH PIPE INVERTS WITH ELEVATIONS SHOWN. ALL PIPE CENTERLINES TO MATCH PIPE OPENING CENTERLINES.

STORMCEPTOR DESIGN NOTES

E. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

**ENGINEERED SOLUTIONS LLC** www.contechES.com 9025 Centre Pointe Dr., Suite 400, West Chester, OH 4506

STC2400 STORMCEPTOR STANDARD DETAIL

SITE SPECIFIC

**DATA REQUIREMENTS** 

INVERT MATERIAL DIAMETER

STRUCTURE ID

RIM ELEVATION

PIPE DATA:

INLET PIPE 1 INLET PIPE 2

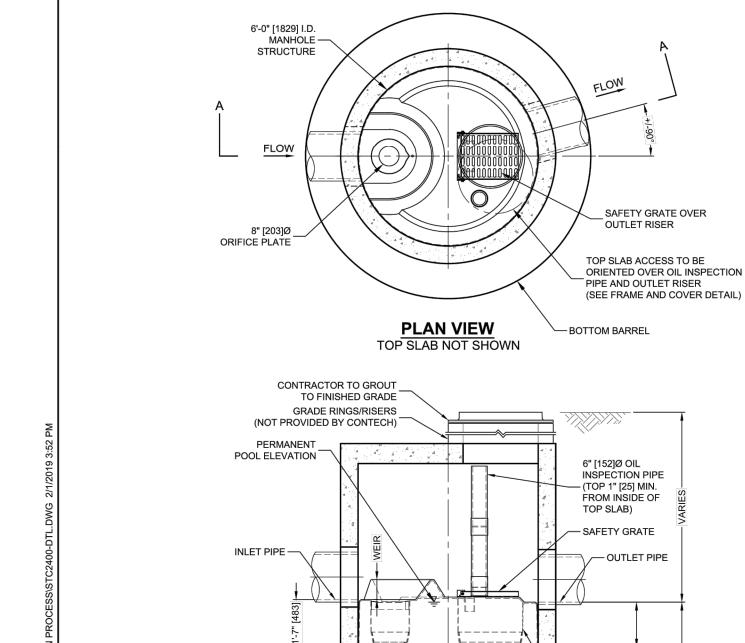
OUTLET PIPE

WATER QUALITY FLOW RATE (cfs [L/s])

RETURN PERIOD OF PEAK FLOW (yrs)

NOTES / SPECIAL REQUIREMENTS:

PEAK FLOW RATE (cfs [L/s])

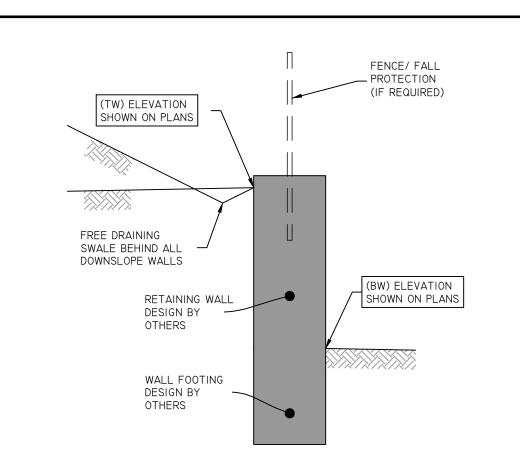


12" [305]Ø DROP TEE -

SOLIDS STORAGE SUMP -

6'-0" [1829] I.D

MANHOLE STRUCTURE



MINIMUM TRENCH WIDTH

(SEE TABLE)

MIN. TRENCH WIDTH

23"

26"

28"

30"

34"

39"

MINIMUM COVER TO

BOTTOM OF

FLEXIBLE PAVEMENT

BEDDING:

4" FOR I2" TO 24" PIPE

6" FOR 30" TO 60" PIPE

**HDPE Trench Detail** 

WALL (BY

OTHERS)

WALL (BY

OTHERS)

NOT TO SCALE

PIPE Ø

8"

10"

12"

15"

MIN. TRENCH WIDTH

48"

56"

64"

72"

80"

96"

- FINISHED GRADE

FINAL BACKFILL

INITIAL BACKFILL

── SUITABLE FOUNDATION

BEDDING

PIPE Ø

36"

48"

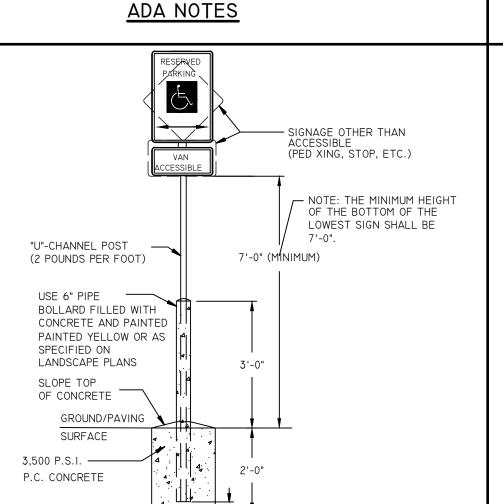
60"

### TYPICAL RETAINING WALL SECTION

NOT TO SCALE

AS APPLICABLE ΓΥΡΙCAL: 4" CLASS Ι MAXIMUM RUNNING SLOPE ALONG ALL ACCESSIBLE PATHS OF TRAVEL MUST BE 4.5% (0.045 FT/FT), AND MAXIMUM CROSS SLOPE ACROSS ALL ACCESSIBLE PATHS OF TRAVEL MUST BE 1.5% (0.015 FT/FT).

> LIFTS OF 12" OR LESS COMPACTED IN ACCORDANCE WITH AASHTO SPECIFICATION M-190, METHOD A OR D. SELECT FILL FREE OF CLAY, ORGANIC MATERIAL, LOAM, TRASH, FROZEN SOIL, ROCKS - OVER 4" OR ANY OTHER OBJECTIONABLE MATERIAL. MATERIAL TO BE HAND PLACED AND HAND TAMPED - WATER MAIN



**INSTALLATION NOTES:** 

BACKFILL MATERIAL, WHEN REQUIRED.

USING A GEOTEXTILE MATERIAL.

RIGID PAVEMENT.

DESIGN BY GEOTECHNICAL ENGINEER.

PARKING

I. ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D232I,

FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS, LATEST ADDITION.

2. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO

3. FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE

MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED

4. BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II OR III. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" (100MM) FOR 4"-24" (100MM-600MM); 6" (150MM) FOR 30"-60" (750MM-900MM).

5. INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II OR III IN THE PIPE ZONE

PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL

EXTENDING NOT LESS THAN 6" ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL

6. MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL

COVER MAY BE REQUIRED TO PREVENT FLOTATION. FOR TRAFFIC APPLICATIONS,

MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF

PARKING SCENARIO

AISLE SCENARIO

**GUARDRAIL OFFSET SCENARIOS** 

NOT TO SCALE

GUIDELINES (ADAAG)" BY THE DEPARTMENT OF JUSTICE (CURRENT EDITION).

ALL IMPROVEMENTS MUST COMPLY WITH THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY

ADA PARKING SPACES AND LOADING AREAS: THE STEEPEST SLOPE OF THE SPACE, MEASURED IN ANY

DIRECTION (INCLUDING DIAGONAL), MUST BE LESS THAN OR EQUAL TO 2% (0.02 FT/FT). DIPRETE

ENGINEERING GENERALLY RECOMMENDS A MAXIMUM OF 1.4% (0.014 FT/FT) BE USED FOR BOTH

A MINIMUM 5'X5' LANDING MUST BE PROVIDED IN FRONT OF ALL PUBLICLY ACCESSIBLE BUILDING ENTRANCES/ EGRESSES. THE STEEPEST SLOPE OF THE LANDING, MEASURED IN ANY DIRECTION

(INCLUDING DIAGONAL), MUST BE LESS THAN OR EQUAL TO 2% (0.02 FT/FT). DIPRETE ENGINEERING

FOR EVERY 6 (OR FRACTION OF 6) ADA PARKING SPACES, AT LEAST ONE MUST BE A VAN PARKING

NOTWITHSTANDING THE NOTES LISTED ABOVE, TOWN OR STATE-SPECIFIC STANDARDS MAY BE MORE

STRINGENT AND OVERRULE. IT IS THE RESPONSIBILITY OF THE USER OF THIS PLAN SET TO MAINTAIN

SHOW THE DETAIL NECESSARY TO CONSTRUCT WALKWAYS, RAMPS AND SPACES TO COMPLY WITH THE

STANDARDS. IN THE EVENT OF ANY NON COMPLIANCE THE CONTRACTOR MUST NOTIFY THE DESIGNER

NOTE THAT THE GRADING/ PLAN VIEWS AND DETAILS CONTAINED WITHIN THIS PLAN SET MAY NOT

ABOVE REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE THE LEVEL OF CARE

NECESSARY TO BE CERTAIN THAT THE CONSTRUCTED PRODUCT MEETS ADA/ CONTROLLING

BOLLARD MOUNTED SIGN DETAIL NOT TO SCALE

SPACE. FOR EXAMPLE, IF 7 ADA PARKING SPACES ARE REQUIRED, A MINIMUM OF 2 MUST BE VAN

GENERALLY RECOMMENDS A MAXIMUM OF 1.4% (0.014 FT/FT) BE USED FOR BOTH RUNNING AND CROSS

MINIMUM COVER, H, IS 12" UP TO 48" Ø PIPE AND 24" OF COVER FOR 60" Ø PIPE,

SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.

ACTUAL LOCATION OF GUARDRAIL TO BE DETERMINED BASED ON DESIGN OF WALL

GUARDRAIL —

AISLE

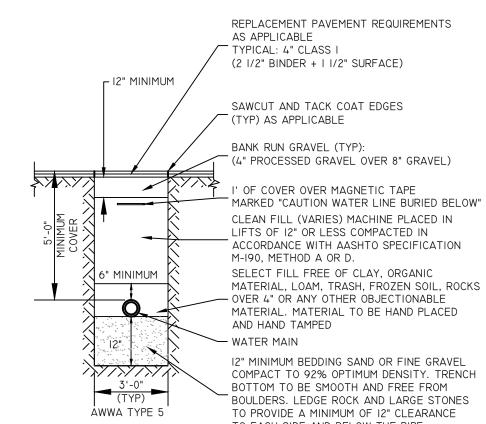
RUNNING AND CROSS SLOPES IN ORDER TO COMPLY.

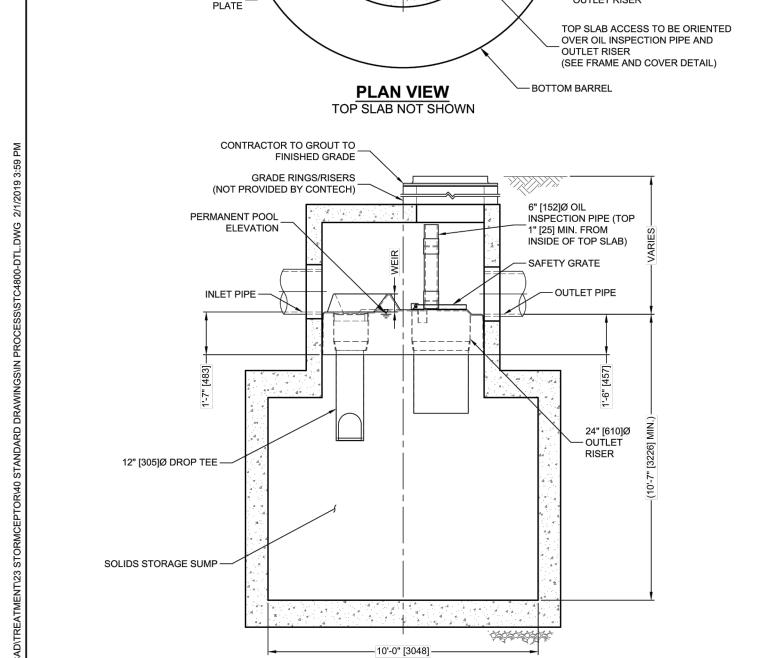
COMPLIANCE WITH THE CONTROLLING STANDARD.

BEFORE CONSTRUCTION FOR ADVICE IN FINDING A RESOLUTION.

SLOPES IN ORDER TO COMPLY.

"STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE





CONTECH

THE STANDARD STC4800 CONFIGURATION IS SHOWN.

FRAME AND COVER NOT TO SCALE

3ENERAL NOTES

1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.

2. FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.ContechES.com 3. STORMCEPTOR WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS

DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT. 4. STORMCEPTOR STRUCTURE SHALL MEET AASHTO HS20 LOAD RATING, ASSUMING EARTH COVER OF 0' - 2' [610], AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE CONTECH LOGO

5. STORMCEPTOR STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C478 AND AASHTO LOAD FACTOR DESIGN METHOD. 6. ALTERNATE UNITS ARE SHOWN IN MILLIMETERS [mm].

INSTALLATION NOTES
A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE

SPECIFIED BY ENGINEER OF RECORD. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STORMCEPTOR MANHOLE

CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE. D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET AND OUTLET PIPE(S). MATCH PIPE INVERTS WITH ELEVATIONS SHOWN. ALL PIPE CENTERLINES TO MATCH PIPE OPENING CENTERLINES. E. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

STC4800 STORMCEPTOR STANDARD DETAIL

TO EACH SIDE AND BELOW THE PIPE WATER TRENCH DETAIL

10" [254]Ø ORIFICE

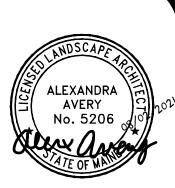
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**SECTION A-A** 

- I. CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS BY NOTIFYING DIG-SAFE (811) AT LEAST 72 HOURS PRIOR TO ANY CONSTRUCTION OR SITE PREPARATION AND ANY/OR ALL LOCAL UTILITY
- 2. ALL WORK MUST BE PERFORMED IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS BY THE CONTRACTOR. CONTRACTOR MUST OBTAIN ALL NECESSARY PERMITS
- 3. CONTRACTOR TO PROVIDE A ONE (I) YEAR GUARANTEE FOR ALL MATERIALS. CONTRACTOR GUARANTEES THAT PLANTS WILL REMAIN HEALTHY FOR ONE (I) GROWING SEASON. CONTRACTOR TO MAINTAIN ALL PLANTING AND LAWNS UNTIL FINAL PROJECT ACCEPTANCE. GUARANTEE PERIOD TO COMMENCE AT FINAL ACCEPTANCE. ANY REPLACEMENT PLANTS SHALL BE OF THE SAME SIZE AND SPECIES AS SPECIFIED WITH NEW GUARANTEE COMMENCING
- 4. ALL PLANT MATERIAL MUST CONFORM, IN ALL RESPECTS, TO THE GUIDELINES OF "THE AMERICAN STANDARD FOR NURSERY STOCK," LATEST EDITION, PUBLISHED BY THE AMERICAN NURSERY & LANDSCAPE ASSOCIATION, INC. ALL PLANTS SHALL BE NURSERY GROWN AND SHALL HAVE BEEN GROWN UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY
- 5. COMPATIBLE PLANT SUBSTITUTIONS ARE PERMITTED TO ACCOMMODATE AVAILABILITY AND SEASONAL VARIATIONS. PLANT SUBSTITUTION SELECTION MUST BE APPROVED BY LANDSCAPE
- 6. ALL PLANTS TO BE PLANTED SO THAT AFTER SETTLEMENT THEY BEAR THE SAME RELATION
- 7. CREATE SAUCER AROUND INDIVIDUAL PLANTS CAPABLE OF HOLDING WATER. ALL PLANTS TO BE FLOODED WITH CLEAN WATER TWICE WITHIN THE FIRST 24 HOURS OF PLANTING. ADDITIONAL WATERING MUST BE MADE AS REQUIRED TO KEEP PLANTS FROM WILTING AND
- MUST COVER PLANTING BEDS AS SHOWN ON DRAWINGS WITHIN 72 HOURS AFTER PLANTING.
- 9. TRIM BROKEN AND DEAD BRANCHES FROM TREES AND SHRUBS AFTER PLANTING. NEVER CUT
- 10. ALL LANDSCAPED AREAS MUST BE KEPT FREE OF WEEDS AND DEBRIS. ALL VEGETATION WITHIN SAID AREAS MUST BE MAINTAINED FREE OF PHYSICAL DAMAGE CAUSED BY CHEMICALS, INSECTS, DISEASES, LACK OF WATER OR OTHER CAUSES. DAMAGED PLANTS SHALL BE REPLACED WITH THE SAME OR SIMILAR VEGETATION ON AN ANNUAL BASIS.
- THE LANDSCAPE DESIGN. LOAM MUST NOT BE MIXED WITH ANY UNSUITABLE MATERIALS OR SUBSOIL. EXCESS LOAM TO REMAIN ON THE OWNER'S PROPERTY AND ONLY REMOVED WITH THE OWNERS PERMISSION. NEW LOAM SHALL BE FRIABLE, FERTILE, MEDIUM TEXTURED SANDY LOAM THAT IS FREE OF TOXIC MATERIALS TO HEALTHY PLANT GROWTH AND SURVIVAL. LOAM SHALL BE FREE OF MATTER I" OR GREATER IN DIAMETER AND WHEN TESTED SHALL HAVE A PH BETWEEN 5.5 AND 7.5. CONTRACTOR TO PROVIDE 6 INCHES OF GOOD QUALITY, LOAM AND/OR REUSE EXISTING LOAM TO PROVIDE A MINIMUM 6 INCH DEPTH OR AS STATE AND
- 13. IRRIGATION DESIGN, INSTALLATION AND MAINTENANCE BY OTHERS OR AS DIRECTED BY
- 16. THESE PLANS ARE NOT FOR CONSTRUCTION AND ARE FOR PERMITTING PURPOSES ONLY.

NOT LESS THAN 50 PERCENT OF THE NET ACREAGE SHALL BE DEVOTED TO GREEN AREA. GREEN SPACE SHALL BE DEEMED TO INCLUDE PATIOS, WHETHER PAVED OR NOT, PEDESTRIAN WALKS, AND LANDSCAPING WITHIN PARKING LOTS, BUT NO OFF-STREET PARKING SPACES, DRIVEWAYS, OR COMMON ROADS. FOR TOWNHOUSE PROJECTS, THE GREEN AREA OF INDIVIDUAL LOTS MAY BE COUNTED TOWARD THE 50 PERCENT GREEN SPACE REQUIREMENT OF THE PROJECT. NET ACREAGE SHALL INCLUDE ALL LAND CONTAINED WITHIN THE PROJECT EXCEPT DEDICATED STREETS OR STREET RIGHTS-OF-WAY SHOWN ON THE CITY'S ADOPTED MASTER DEVELOPMENT PLAN OR

Engin



REES	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT
+	ARO	4	ACER RUBRUM 'OCTOBER GLORY'	OCTOBER GLORY RED MAPLE	2.5/3" CAL B&B
<u> </u>	GTH	2	GLEDITSIA TRIACANTHOS INERMIS 'SHADEMASTER'	SHADEMASTER HONEY LOCUST	2.5/3" CAL B&B
+	PC	14	PYRUS CALLERYANA 'CLEVELAND SELECT'	CHANTICLEER CALLERY PEAR	2.5/3" CAL B&B
+	QP	6	QUERCUS PALUSTRIS	PIN OAK	2.5/3" CAL B&B
£(+)}	QR	1	QUERCUS RUBRA	RED OAK	2.5/3" CAL B&B
+	UAP	1	ULMUS AMERICANA 'PRINCETON'	PRINCETON AMERICAN ELM	2.5/3" CAL B&B
+ +	ZS	4	ZELKOVA SERRATA 'VILLAGE GREEN'	VILLAGE GREEN SAWLEAF ZELKOVA	2.5/3" CAL B&B
EVERGREEN TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT
00000000000000000000000000000000000000	CL	5	CUPRESSOCYPARIS X LEYLANDII	LEYLAND CYPRESS	7/8` HT
+	JVS	30	Juniperus virginiana	EASTERN RED CEDAR	4/5` HT
• * * * * * * * * * * * * * * * * * * *	PCS	15	PICEA GLAUCA	WHITE SPRUCE	6/7` HT
+ }	PG	5	PICEA GLAUCA	WHITE SPRUCE	7/8` HT
7	DOT	0	PIANIC CERCEUS	White Divis	/ /E` !!T
30 + F	PST	8	PINUS STROBUS	WHITE PINE	4/5` HT
	PSS	5	PINUS STROBUS	WHITE PINE	6/7` HT
Answer of the second se	TS	52	Thuja occidentalis `Smaragd`	EMERALD GREEN ARBORVITAE	5/6` HT
33 O C C	TPS	24	THUJA PLICATA	WESTERN RED CEDAR	5/6` HT
SHRUBS	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE
$\odot$	HM	14	HYDRANGEA MACROPHYLLA `ENDLESS SUMMER` TM	BAILMER HYDRANGEA	5 GAL
•	IC	7	ILEX CRENATA `HELERII`	HELER JAPANESE HOLLY	5 GAL
$\odot$	IG	4	ILEX GLABRA `SHAMROCK`	INKBERRY	3-4` HT
0	JPN	18	JUNIPERUS PROCUMBENS 'NANA'	DWARF JAPANESE GARDEN JUNIPER	2 GAL
•	RM	16	RHODODENDRON MAXIMUM	Rose Bay	4/5` HT
<b>(</b> )	RXC	5	RHODODENDRON X CHIONOIDES	CHIONOIDES RHODODENDRON	5 GAL
GRASSES	RXW	8 QTY	ROSA X `WHITE-OUT`  BOTANICAL NAME	WHITE-OUT ROSE  COMMON NAME	3 GAL SIZE
	CXK	14	CALAMAGROSTIS X ACUTIFLORA `KARL FOERSTER`	FEATHER REED GRASS	3 GAL
E-Vinte	PAH	59	PENNISETUM ALOPECUROIDES `HAMELN`	HAMELN DWARF FOUNTAIN GRASS	3 GAL
AMAN.	PAL	10	PENNISETUM ALOPECUROIDES `LITTLE BUNNY`	LITTLE BUNNY FOUNTAIN GRASS	GAL
Market Same					
PERENNIALS	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE
<del>(+)</del>	HH	73	HEMEROCALLIS X 'HAPPY RETURNS'	HAPPY RETURNS DAYLILY	GAL
Jananara	LV	73	LIRIOPE MUSCARI 'VARIEGATA'	VARIEGATED LILYTURF	GAL
( )	NXB	10	NEPETA X FAASSENII `BLUE WONDER`	CATMINT	GAL

