

STORMWATER POLLUTION CONTROL PLAN

Prepared for:

UCONN Health
263 Farmington Avenue
Farmington, CT

Parking Lot Repairs Lots D & K
Project No. 15-603.03

Prepared by:

Zuvic, Carr & Associates
40 Cold Spring Road
Rocky Hill, CT 06067

July 2016



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List of Attachments:

- Attachment A: Drainage Areas – SPCP Map
- Attachment B: Specifications Section 02270 – Erosion and Sediment Control

List of Forms:

- Form DEEP-WPED-SMR-015 – Stormwater Monitoring Report (SMR)
- Form DEEP-APP-006 – License Transfer Form
- Form DEP-PED-NOT-015 - Notice of Termination

List of Drawings:

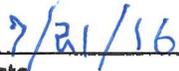
- G-001 Cover Sheet
- G-101 General Notes and Legend
- G-102 Drawing Index
- C-101 Test Pit Locations and Removal Plan Lot D
- C-102 Test Pit Locations and Removal Plan Lot K
- C-103 Site Improvement Plan Lot D
- C-104 Site Improvement Plan Lot K
- C-105 Grading and Erosion Control Plan Lot D
- C-106 Grading and Erosion Control Plan Lot K
- C-501 Details
- C-502 Details
- C-503 Boring Data
- C-504 Boring Data

CERTIFICATIONS

Certification of Documents - I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that a false statement made in this document or its attachments may be punishable as a criminal offense, in accordance with section 22a-6 of the Connecticut General Statutes, pursuant to section 53a-157b of the Connecticut General Statutes, and in accordance with any other applicable statute.



Galen Semperebon, P.E., LEED AP, PE No. 16747
Senior Project Manager
Zuvic, Carr & Associates



Date



Thomas P Trutter, AIA
Associate Vice President
UCONN Health Campus Planning, Design &
Construction



Date

Contractor Certification Statement - I certify under penalty of the law that I have read and understand the terms and conditions of the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities. I understand that as the contractor or subcontractor at the site, I am authorized by this general permit, and must comply with the terms and conditions of this general permit, including, but not limited to, the requirements of the Stormwater Pollution Control Plan prepared for the site.

Contractor Signature

Date

Contractor Name and Title

Name of Firm, Address and Telephone No.

Contractor Signature

Date

Contractor Name and Title

Name of Firm, Address and Telephone No.

Subcontractor Signature

Date

Subcontractor Name and Title

Name of Firm, Address and Telephone No.

Contractor Certification Statement - I certify under penalty of the law that I have read and understand the terms and conditions of the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities. I understand that as the contractor or subcontractor at the site, I am authorized by this general permit, and must comply with the terms and conditions of this general permit, including, but not limited to, the requirements of the Stormwater Pollution Control Plan prepared for the site.

Subcontractor Signature

Date

Subcontractor Name and Title

Name of Firm, Address and Telephone No.

Subcontractor Signature

Date

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Stormwater Pollution Control Plan

1.0 OVERVIEW

1.1 Introduction

In 1972, Congress passed the Federal Water Pollution Control Act (FWPCA), also known as the Clean Water Act (CWA), to restore and maintain the quality of the nation's waterways. The spirit of the CWA is to ensure that rivers and streams remain fishable, swimmable, and drinkable.

In 1999, the Water Quality Act (WQA) added provisions to the CWA that allowed the United States Environmental Protection Agency (USEPA) to govern stormwater discharges from construction sites of one to five acres. Construction activities are regulated under the National Pollutant Discharge Elimination System (NPDES) stormwater program and are permitted through the Connecticut Department of Energy and Environmental Protection's (CT DEEP) General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities (SWGP), issued August 21, 2013 (effective October 1, 2013). The Construction General Permit requires developers and builders to implement a Stormwater Pollution Control Plan (SPCP) to comply with the EPA guidelines.

Development, implementation, and maintenance of the SPCP will provide UCONN Health with the tools necessary to reduce pollutants contained in stormwater discharges to a storm sewer system. This will ensure the site complies with the requirements set forth in the CT DEEP SWGP as mandated under the authority of the Connecticut General Statutes Section 22a-430.

The primary goals and objectives of the SPCP are to minimize:

- Stormwater pollution caused by soil erosion and sedimentation during and after construction.
- Stormwater pollution caused by use of the site after construction is completed.

1.2 SPCP Content

The SPCP is a working document that requires review and updating on a regular basis, typically as a result of a site inspection and/or a review of stormwater sample results. The SPCP includes the following:

- Identification of the Stormwater Pollution Prevention Team
- Description of the site including a summary of the storm water drainage system
- Stormwater control measures and the best management practices (BMP) necessary to reduce pollutants from entering the stormwater drainage system

- Description of the implementation schedule and provisions for amendment of the Plan

2.0 POLLUTION PREVENTION TEAM AND DUTIES

The stormwater pollution prevention team is responsible for developing, implementing, maintaining, and revising this SPCP for the period the SPCP is in effect. The members of the team are familiar with the construction activities associated with the project at the UCONN Health site. At a minimum, the team shall consist of representatives of the Contractor and Owner.

The SPCP Coordinator will be designated by the Site Contractor. The coordinator duties include:

- Creating a SPCP team to facilitate and implement the SPCP
- Oversee maintenance practices identified in the SPCP
- Implement and oversee employee training
- Conduct and provide for inspection or monitoring activities
- Conduct compliance evaluations
- Identify any deficiencies in the SPCP and make sure they are corrected
- Prepare, sign/certify, and submit reports to CTDEEP
- Ensure that any changes in construction activities that may affect the SPCP are addressed in the SPCP
- Maintain SPCP record keeping

3.0 SITE DESCRIPTION

3.1 Existing Conditions

The Site is located at 263 Farmington Avenue in Farmington Connecticut (Attachment A) and encompasses two existing parking lots (Lots D & K). The site is owned by the State of Connecticut and is occupied by the UCONN Health. The site is bordered by residential and commercial properties.

The site contains the UCONN Health facility, with a number of buildings, parking lots, access roadways etc. The site is accessed from Farmington Avenue and Middle Road.

Parking lots D & K are located to the west of the main building. Both lots drain into the existing storm drainage system for the health center.

3.2 Proposed Improvements

The proposed improvements to the site consist of the removal and replacement of pavement within the two parking lots. In lot D, the pavement will be removed and replaced. The existing parking lot base will remain. In Lot K, the pavement will be milled and mixed with the existing base, graded, compacted, then new pavement installed. Bituminous curbing will be replaced. No expansion of the two lots is proposed.

No changes are proposed in the storm drainage patterns for the site. Existing storm drainage structures will be replaced as required. Existing storm drainage piping will remain, and no additional storm drainage structures are proposed.

The estimated total area of the site that is expected to be disturbed by construction is 1.8 acres (78,000 SF). An illustration of the Project Area of Disturbance can be found on the *Test Pit Locations and Removal Plans* Sheets C-101 and C-102 in the Contract Drawings. The area of site disturbance in parking lot D will be 52,000 S.F., and in parking lot K will be 26,000 S.F. The project consists of the replacement of the pavement within the limits of the existing parking lots. No increase in impervious coverage will occur.

3.3 Construction Sequence and Schedule

The project will be completed in two phases. Lots D and K will be reconstructed as separate phases with the paving of one lot occurring prior to the removal of pavement from the other lot. The expectation is that parking lot D will be reconstructed first, but either parking lot can be done first. The Grading and Erosion Control Plans in the Contract Drawings (Sheets C-105 and C-106) includes additional notes and depicts the locations of the erosion and sedimentation control measures. Section 02270 of the Project Specifications (Attachment B) also includes general requirements related to the erosion control and construction sequence.

The sequence of Construction for each parking lot is as follows:

1. Installation of sedimentation control measures.
2. Sawcut pavement at limits of construction and around catch basin structures to be replaced.
3. Remove pavement at catch basin structures to be replaced, excavate and remove existing catch basin structures. Install new catch basin structures. Backfill and compact. This work should occur during periods when rainfall is not in the forecast.
4. Demolish pavement and curbs. For lot D, the pavement and curbs will be removed and disposed of off-site. For lot K, the pavement will be pulverized and mixed with the existing base material.
5. Compact/proof-roll base material.
6. Install concrete curbs where shown on plan.
7. Install new bituminous pavement and bituminous curbs.
8. Loam and seed any disturbed areas adjacent to parking lots.
9. Install line striping, signage and other incidental construction.
10. Remove erosion controls once all areas are stabilized.

4.0 STORMWATER CONTROL MEASURES

The construction activity on the property is limited to pavement replacement within the limits of two existing parking lots. Existing stormwater measures will be maintained, and existing catch basins in deteriorated condition will be replaced with catch basins with 4' deep sumps.

The measures for erosion and sedimentation control are described in detail on the E&S Plan. Section 02270 of the Project Specifications (Attachment B) also provides requirements for maintenance and inspection to ensure the effective operation of the measures during the construction period.

Contractor shall perform periodic sweeping of the pavement within the construction work area as a dust control measure. Additional control measures shall be installed during the construction period as required.

4.1 Monitoring

Post construction, the drainage areas and discharge outlet locations will be the same as existing conditions. The discharge locations are depicted on the map found in Attachment A. The three discharge locations on the map correspond to each of the three piped stormwater systems from the parking lots. Turbidity monitoring will be in accordance with the general permit requirements.

4.2 Good Housekeeping

Good housekeeping is an essential component of stormwater management and the most practical and cost-effective way to prevent potential pollutant sources from coming into contact with stormwater. The goal is to minimize the generation of dust and off-site tracking of sediment from the Site, and to ensure that Site stormwater does not carry waste, garbage, and floatable debris to receiving waters.

- The contractor shall make an effort to store only enough products on-site required to do the job.
- All materials stored on-site will be stored in a neat, orderly manner in their appropriate containers and, if possible, under a roof, plastic or other weatherproof enclosure.
- Products will be kept in their original containers with the original manufacturer's labels intact.
- Original labels and material safety data sheets will be retained.
- Substances will not be mixed with one another unless in accordance with the manufacturer's recommendations.
- Whenever possible, all of a product will be used up before properly disposing of the container.
- Manufacturers' recommendations for proper use and disposal will be followed. If surplus product must be disposed of, follow manufacturer, State or Federal recommended methods for proper disposal (whichever is most stringent).

- The contractor will inspect periodically to ensure proper use and disposal of materials. All wastes will be properly managed in accordance with applicable regulatory requirements.
- All on-site vehicles will be monitored for leaks and receive regular preventive maintenance to reduce the chance of leakage.
- Care will be taken in the selection of the location and method of storage of any petroleum products, hazardous materials, or similar, so as to minimize the potential for accidental spillage, leakage, or release to the environment. All chemical and petroleum product containers stored on the site shall be provided with impermeable containment which shall hold at least 110% of the volume of the largest container or 10% of the total volume of all containers in the area, whichever is larger, without overflow from the containment area. All chemicals and their containers shall be stored under a roofed area except for those chemicals stored in containers of 100-gallon capacity or more, in which case a roof is not required. Double-walled tanks satisfy this requirement.
- No washout of concrete trucks shall be allowed on site with a discharge to a surface water or to the stormwater system. Washout of applicators, containers, vehicles and equipment for concrete, paint and other materials shall be conducted in a designated washout area with no surface discharge. The washout area shall be located outside any buffers and at least 50 feet from any stream, wetlands, or sensitive area, or in an entirely self-contained system. Washout areas shall be clearly flagged and marked, inspected weekly, and immediately repaired upon discovery of any holes, leaks, or overflows. All hardened concrete waste shall be properly removed and disposed.

4.3 Spill Prevention, Response and Cleanup Practices

- Materials and equipment necessary for spill response will be maintained on-site. Equipment and materials may include, but are not limited to: gloves, safety glasses, speedi-dri, spill "pigs", sorbent materials, poly sheeting, and miscellaneous containers (e.g., drums).
- Adequate personnel will be trained in spill response procedures.
- The contractor shall designate a specific person to be responsible for spill prevention and response.
- All spills will be properly reported and cleaned up immediately after discovery.
- The contractor shall prepare its own contingency plan that details preventive measures and response procedures to be utilized in the event of a spill or unplanned release.

4.4 Post Construction Operations and Maintenance

The following is a minimum guide for maintaining the stormwater management system upon project completion. Additional inspections and maintenance may be required after large storm events in which large deposits of debris may enter the system.

- Catch Basins: Catch basins shall be inspected bi-annually (at a minimum). Sumps shall be cleaned when the depth of material reaches one foot.

5.0 COMPLIANCE AND REPORTING REQUIREMENTS

5.1 SPCP Summary

As per the requirements of SWGP, the SPCP will be kept at the site and will be made available to the state and federal compliance inspectors upon request. Pollution prevention team members shall meet weekly to discuss the SPCP and site compliance, inspection and preventive maintenance procedures.

5.2 Reporting and Record Keeping Requirements

5.2.1 Recording of Results

For each measurement or sample collected pursuant to the requirements of the SWGP, the Contractor will maintain records of the following information:

- Place, date and time of sampling and the time the discharge started;
- Person(s) collecting sample(s);
- Dates and times the analyses were initiated;
- Person(s) or laboratory that performed the analyses;
- Analytical techniques or methods used; and
- Results of all analyses.

5.2.2 Records Retention

All records and information collected from monitoring activities required by the General Permit, including all records of analyses performed and calibration and maintenance of instrumentation, will be retained for a minimum of five (5) years following the date of expiration of the General Permit, or longer if requested by the Commissioner.

An updated copy of the SPCP shall be retained at the construction site from the date construction is initiated until the date construction at the site is complete.

5.2.3 Reporting Requirements

The results of all monitoring performed per the General Permit will be submitted on the Stormwater Monitoring Report (SMR) (Form DEEP-WPED-SMR-015).

5.2.4 Principal Executive Officer Signature

This SPCP has been reviewed, approved and signed (refer to Certifications page) by the UCONN Health official, responsible for the operation of the UCONN Health facility.

6.0 TRANSFER OF AUTHORIZATION

Any authorization issued by the commissioner under this general permit is transferable only in accordance with the provision of section 22a-60 of the General Statutes. UCONN Health will apply for and obtain the SWGP. Upon selection and award of the contract to a General Contractor to perform the work associated with this project, the Contractor is required to submit a License Transfer Form (Form DEEP-APP-006) to the commissioner to transfer authorization from UCONN Health (the transferor) to the General Contractor (the transferee). The Contractor may adopt by reference the SPCP associated with the SWGP developed by UCONN Health with the following updates: 1) complete and sign the Contractor Certifications included in the SPCP and 2) amend the SPCP to include any additional information required.

7.0 NOTICE OF TERMINATION

At the completion of the construction project registered pursuant to the “Registration Requirements” section (Section 4) of the SWGP, a Notice of Termination (Form DEEP-PED-NOT-015) must be filed with the commissioner. A project is considered complete after all post-construction measures are installed, cleaned and functioning and the site has been stabilized for at least three months following the cessation of construction activities. A site is considered stabilized when there is no active erosion or sedimentation present and no disturbed areas remain. The Contractor’s “Qualified Inspector” shall complete an inspection of the site and shall indicate compliance with this requirement on the Notice of Termination form.

UCONN HEALTH PARKING LOT REPAIRS - LOTS D & K 263 FARMINGTON AVENUE FARMINGTON, CONNECTICUT

PROJECT NO. 15-603.03

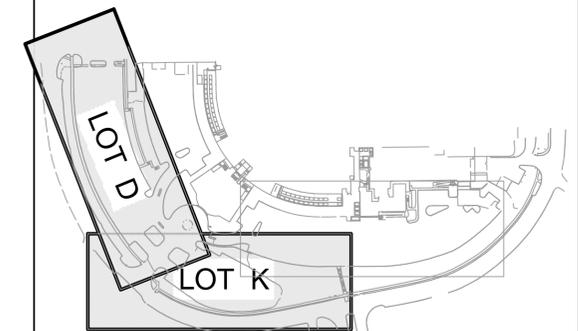
JUNE 30, 2016



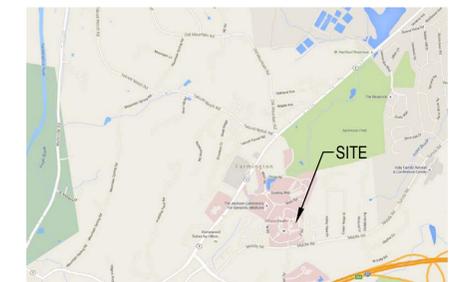
ENGINEERS
ZUVIC, CARR & ASSOCIATES
40 COLD SPRING ROAD
ROCKY HILL, CONNECTICUT, 06067
860 436 4901

CONTRACT DRAWINGS

NO.	TITLE
G-001	COVER SHEET
G-101	GENERAL NOTES & LEGEND
G-102	DRAWINGS INDEX
C-101	TEST PIT LOCATIONS AND REMOVAL PLAN LOT D
C-102	TEST PIT LOCATIONS AND REMOVAL PLAN LOT K
C-103	SITE IMPROVEMENT PLAN LOT D
C-104	SITE IMPROVEMENT PLAN LOT K
C-105	GRADING & EROSION CONTROL PLAN LOT D
C-106	GRADING & EROSION CONTROL PLAN LOT K
C-501	DETAILS
C-502	DETAILS
C-503	BORING DATA
C-504	BORING DATA



KEY PLAN



LOCATION PLAN

APPROVALS

DEPT. OF ADMINISTRATIVE SERVICES _____ DATE _____

AGENCY _____ DATE _____



GENERAL NOTES

- ALL WORK SHALL CONFORM TO THE PROJECT SPECIFICATIONS AND THE CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION, FORM 816, DATED 2004, WITH SUPPLEMENTAL SPECIFICATIONS DATED JULY 2015.
- EXISTING CONDITIONS MAY VARY FROM THOSE SHOWN ON THESE PLANS. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND NOTIFY ENGINEER IMMEDIATELY IF THERE ARE ANY DISCREPANCIES BETWEEN THE CONTRACT DOCUMENTS AND/OR THE FIELD CONDITIONS SO THAT APPROPRIATE REVISIONS CAN BE MADE. THE CONTRACTOR SHALL NOT PROCEED WITH SUCH WORK UNTIL THE ENGINEER HAS BEEN CONTACTED FOR CLARIFICATION AND PROPER DIRECTION.
- EXISTING TOPOGRAPHY, STRUCTURES, AND SITE FEATURES ARE SHOWN SCREENED AND/OR LIGHT-LINED. NEW FINISH GRADE, STRUCTURES, AND SITE FEATURES ARE SHOWN HEAVY-LINED.
- THE LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES ARE SHOWN IN AN APPROXIMATE MANNER ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE ENGINEER. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT OCCUR DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
- THE CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" LOCATING SERVICE AT 1-800-922-4455 AT LEAST SEVENTY TWO (72) HOURS PRIOR TO THE START OF CONSTRUCTION IN ORDER TO HAVE ALL UTILITIES LOCATED AND MARKED.
- NO STUMPS, BUILDING DEBRIS, OR UNSUITABLE MATERIALS ARE TO BE BURIED ON SITE.
- UNFORESEEN UTILITY WORK SHALL BE DONE IN ACCORDANCE WITH THE RESPECTIVE UTILITY'S REQUIREMENTS AND STANDARDS. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE UTILITY RELATED WORK WITH THE RESPECTIVE UTILITY COMPANY.
- RESTORE CONTRACTOR STAGING AREA AND SOIL STOCKPILE AREA TO ORIGINAL CONDITION OR BETTER.
- REPLACE EXISTING SURVEY MONUMENTS WHICH ARE DISTURBED OR DESTROYED BY CONSTRUCTION OPERATIONS. PERFORM THE WORK TO PRODUCE THE SAME LEVEL OF ACCURACY AS THE ORIGINAL MONUMENT(S) IN A TIMELY MANNER, AND AT THE CONTRACTOR'S EXPENSE.
- PROVIDE TEMPORARY FENCING AS NECESSARY TO MAINTAIN SECURITY AT ALL TIMES.
- ELEVATIONS GIVEN ARE TO FINISH GRADE UNLESS OTHERWISE SHOWN.
- SLOPE UNIFORMLY BETWEEN CONTOURS AND SPOT ELEVATIONS SHOWN.
- ALL DISTURBED AREAS NOT RECEIVING A HARD SURFACE SHALL BE COVERED WITH TURF ESTABLISHMENT. THE PERMANENT SEED MIX FOR TURF ESTABLISHMENT IS AS FOLLOWS:

NAME	MINIMUM PROPORTION BY WEIGHT
KENTUCKY BLUEGRASS	45%
CREeping RED FESCUE	10%
PERENNIAL RYE GRASS	45%
- THE CONTRACTOR SHALL PROVIDE AS-BUILT RECORDS OF ALL CONSTRUCTION (INCLUDING UNDERGROUND UTILITIES) TO THE ENGINEER AT THE END OF CONSTRUCTION. CONTRACTOR TO REFER TO SPECIFICATIONS SECTION 01 77 00.
- THE CONTRACTOR SHALL INSTALL TEMPORARY PUMPING SYSTEMS, UNDERDRAINS, CURTAIN DRAINS, AND/OR OTHER MEASURES AS REQUIRED IN ORDER TO PROVIDE DRY, STABLE SUBGRADES.
- ANY UTILITIES DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY CONTRACTOR AS DIRECTED BY ENGINEER AT NO ADDITIONAL COST TO OWNER.
- ALL UTILITY CONSTRUCTION IS SUBJECT TO INSPECTION PRIOR TO APPROVAL FOR BACKFILL, IN ACCORDANCE WITH THE APPROPRIATE UTILITY COMPANY AND/OR STATE OF CONNECTICUT REQUIREMENTS.

LEGEND (EXISTING)

(NOT ALL SYMBOLS MAY BE USED)

- PROPERTY LINE
- EASEMENT LINE
- CURB
- EDGE OF PAVEMENT (EOP)
- TIMBER RAIL
- TIMBER FENCE OR GUIDE RAIL
- CHAIN LINK FENCE
- TREE/VEGETATION LINE
- MAJOR CONTOUR
- MINOR CONTOUR
- SPOT ELEVATION
- TOP/BOTTOM OF CURB ELEVATION
- STREAM OR EDGE OF WATER
- PIPES < 12"Ø (SIZE & MATERIAL)
- PIPES ≥ 12"Ø (SIZE & MATERIAL)
- TELEPHONE/COMMUNICATIONS
- STORM DRAINAGE
- UNDERGROUND ELECTRIC
- OVERHEAD ELECTRIC
- SANITARY SEWER FORCE MAIN
- SANITARY SEWER
- WATER
- FIRE PROTECTION LINE
- LIMIT OF INLAND WETLANDS
- LIMIT OF 100' REGULATED UPLAND REVIEW AREA
- STUMP
- TREES
- SHRUBS
- CONTROL POINT
- MONUMENT
- IRON PIPE
- IRON PIN
- DRILL HOLE
- BENCHMARK
- SOIL BORING
- SOIL PROBE MONITORING WELL
- TEST PIT
- WETLAND FLAG
- TYPE 'C' CATCH BASIN
- TYPE 'CL' CATCH BASIN
- YARD DRAIN
- STORM DRAINAGE MANHOLE
- SANITARY SEWER MANHOLE
- ELECTRICAL MANHOLE
- TELEPHONE MANHOLE
- WATER MANHOLE
- MISCELLANEOUS MANHOLE
- GAS VALVE
- ELECTRICAL BOX
- HAND HOLE
- PAD MOUNTED TRANSFORMER
- HYDRANT
- WATER VALVE
- UTILITY POLE W/ GUY WIRE
- LIGHT POLE, LIGHT BOLLARD
- LUMINAIRE ON STANDARD
- SIGNS
- POST
- BOLLARD

LEGEND (PROPOSED)

(NOT ALL SYMBOLS MAY BE USED)

- PROPERTY LINE
- EASEMENT LINE
- CURB
- EDGE OF PAVEMENT (EOP)
- METAL BEAM GUIDE RAIL
- TIMBER BARRIER RAIL
- CHAIN LINK FENCE
- TREE/VEGETATION LINE
- MAJOR CONTOUR
- MINOR CONTOUR
- SPOT ELEVATION
- TOP/BOTTOM OF CURB ELEVATION
- PIPES
- TELEPHONE/COMMUNICATIONS
- STORM DRAINAGE
- UNDERGROUND ELECTRIC
- OVERHEAD ELECTRIC
- SANITARY SEWER FORCE MAIN
- SANITARY SEWER
- WATER
- EXISTING PIPE TO BE REMOVED
- EXISTING PIPE TO BE ABANDONED
- GEOTEXTILE SILT FENCE
- TEMPORARY SEDIMENT CONTROL
- LIMIT OF SIDEWALK CONCRETE REPAIR
- LIMIT TURF ESTABLISHMENT
- STONE BED
- CONCRETE
- RIPRAP
- EXISTING SITE FEATURE TO BE REMOVED
- EXISTING SITE FEATURE TO BE ABANDONED
- SOIL BORING
- SOIL PROBE MONITORING WELL
- TEST PIT
- TYPE 'C' CATCH BASIN
- TYPE 'CL' CATCH BASIN
- YARD DRAIN
- STORM DRAINAGE MANHOLE
- SANITARY SEWER MANHOLE
- ELECTRICAL MANHOLE
- TELEPHONE MANHOLE
- WATER MANHOLE
- MISCELLANEOUS MANHOLE
- GAS VALVE
- ELECTRICAL BOX
- HAND HOLE
- PAD MOUNTED TRANSFORMER
- HYDRANT
- WATER VALVE
- UTILITY POLE W/ GUY WIRE
- POLE MOUNTED LIGHT FIXTURE
- LUMINAIRE ON STANDARD
- SIGNS
- POST
- BOLLARD
- TREES
- SHRUBS
- GRADE TO DRAIN
- PORTABLE DUMPSTER CONTAINER

DRAWING REFERENCES

- PRELIMINARY PLAN OF LAND IN FARMINGTON, CONNECTICUT (SURVEYED FOR UCONN HEALTH CENTER) BY: HERITAGE SURVEYS, INC., DATED AUGUST 17, 2011 (NAVD 88, DATUM)

ABBREVIATIONS

(NOT ALL ABBREVIATIONS MAY BE USED)

ABND	ABANDONED	FFE	FINISHED FLOOR ELEVATION	TEMP.	TEMPORARY
AM	AIR MAIN	FLR	FLOOR	TEL	TELEPHONE
ACCOMP	ASPHALT COATED CORRUGATED METAL PIPE	FRP	FIBERGLASS REINFORCED PLASTIC	TF	TOP OF FRAME
APPROX.	APPROXIMATE	G	GAS	TMH	TELEPHONE/COMMUNICATIONS MANHOLE
BC	BOTTOM OF CURB	GM	GAS METER	TOG	TOP OF GRATE
BCLC	BITUMINOUS CONCRETE LIP CURB	GTD	GRADE TO DRAIN	TOS	TOP OF SLAB
BOT	BOTTOM	HC	HANDICAP	TOW	TOP OF WALL
BIT.	BITUMINOUS	HDPE	HIGH DENSITY POLYETHYLENE	TYP.	TYPICAL
BL	BASELINE	HDS	HYDRODYNAMIC SEPARATOR STRUCTURE	UD	UNDERDRAIN
BM	BENCHMARK	HH	HANDHOLE	UKWN	UNKNOWN
BO	BLOW OFF	HP	HIGH POINT	VC	VITRIFIED CLAY
BOW	BOTTOM OF WALL	HYD	HYDRANT	VIF	VERIFY IN FIELD
CL	CENTER LINE	ID	INSIDE DIAMETER	W	WATER
CC	CONCRETE CURB	IE	INVERT ELEVATION	WM	WATER METER
C-CB	TYPE "C" CATCH BASIN	INV	INVERT	WMH	WATER MANHOLE
CL-CB	TYPE "C-L" CATCH BASIN	KVE	ELECTRIC CABLE	WS	WATER STOP
CI	CAST IRON	LP	LOW POINT	WV	WATER VALVE
CIP	CAST IRON PIPE	MH	MANHOLE	YD	YARD DRAIN
CLF	CHAIN LINK FENCE	NTS	NOT TO SCALE		
CMU	CONCRETE MASONRY UNIT	O.C.	ON CENTER		
C.O.	CLEAN OUT	O.D.	OUTSIDE DIAMETER		
CONC.	CONCRETE	PB	PULL BOX		
CPP	CORRUGATED PLASTIC PIPE	R	PROPERTY LINE		
DI	DUCTILE IRON	PVMT	PAVEMENT		
DIP	DUCTILE IRON PIPE	PCCP	PRESTRESSED CONCRETE CYLINDRICAL PIPE		
DEG	DEGREES	PVC	POLYVINYL CHLORIDE		
DIA	DIAMETER	RCP	REINFORCED CONCRETE PIPE		
DMH	DRAINAGE MANHOLE	R	RADIUS		
DR	DRAIN LINE	RD	ROOF DRAINAGE		
DW	DOMESTIC WATER	RWL	RAIN WATER LEADER		
ELEC	ELECTRICAL	S	PIPE SLOPE		
EL	ELEVATION	SAN	SANITARY		
EMH	ELECTRICAL MANHOLE	SD	STORM DRAIN		
EOP	EDGE OF PAVEMENT	SHT	DRAWING NO. SHEET		
EX.	EXISTING	SMH	SANITARY MANHOLE		
EXIST.	EXISTING	SPCP	STORMWATER POLLUTION CONTROL PLAN		
FE	FLARED END	STM	STORM		
F.D.	FLOOR DRAIN	SW	SERVICE WATER		
FF	FINISHED FLOOR	TC	TOP OF CURB		

GENERAL DEMOLITION NOTES

- REFER TO TEST PIT LOCATIONS AND REMOVAL PLANS, SITE IMPROVEMENT PLANS, AND GRADING AND EROSION CONTROL PLANS FOR ADDITIONAL INFORMATION.
- CONTRACTOR SHALL DEMOLISH AND REMOVE ANY AND ALL ITEMS AS REQUIRED TO CONSTRUCT WORK AT NO ADDITIONAL COST TO THE OWNER.
- EXCAVATION OPERATIONS SHALL BE EXECUTED CAREFULLY AT ALL LOCATIONS ADJACENT TO EXISTING UNDERGROUND UTILITIES AND VAULTS. PROTECTION OF EXISTING UTILITIES WITHIN THE WORK LIMIT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL WORK SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY COMPANIES.
- ALL AREAS DISTURBED BY THE CONTRACTOR SHALL BE RESTORED TO THEIR ORIGINAL CONDITION OR AS INDICATED ON THE CONTRACT DRAWINGS.
- ANY DAMAGE TO EXISTING PAVEMENT, CURBS, SIDEWALKS, STRUCTURES OR ANY OTHER APPURTENANCES SHALL BE REPLACED (N-KIND OR BETTER) BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE. SAW-CUT DAMAGED SECTIONS BACK TO THE NEAREST JOINT WHERE APPROPRIATE AND MATCH EXISTING MATERIALS, THICKNESS, AND PATTERNS.
- CONTRACTOR SHALL SAW-CUT BITUMINOUS SURFACES AT LIMITS OF DEMOLITION AS REQUIRED TO ACHIEVE A SMOOTH TRANSITION BETWEEN EXISTING SURFACES (TO REMAIN) AND NEW SURFACES. APPLY/INSTALL TACK COATS AND EXPANSION JOINTS AS REQUIRED. ANY EXISTING SURFACES DIRECTLY ADJACENT TO THE LIMIT OF DEMOLITION, NOT PREVIOUSLY DAMAGED OR DETERIORATED AND DAMAGED BY CONTRACTOR SHALL BE REPLACED AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR TO COORDINATE ALL WORK WITH OWNER AND FOLLOW SAFETY PROCEDURES RECOMMENDED IN MATERIAL SAFETY DATA SHEETS (MSDS), AS APPLICABLE.

ACTIVE STATE BUILDING CODES

STATE BUILDING CODE	DATED
STATE BUILDING CODE	2003 IBC, 2005 CT SUPPLEMENT, 2009 AMENDMENT, 2011 AMENDMENT, 2013 AMENDMENT
STATE FIRE CODE	2003 IFC, 2005 CT SUPPLEMENT
STATE HEALTH CODE	-
EXISTING BUILDING CODE	IEBC 2003
ACCESSIBILITY	2010 ADA STANDARDS FOR ACCESSIBLE DESIGN, ICC-ANSI A117.1 2003
OTHER	NATIONAL ELECTRICAL CODE - 2011 INTERNATIONAL PLUMBING CODE - 2003 INTERNATIONAL MECHANICAL CODE - 2003 INTERNATIONAL ENERGY CONSERVATION CODE - 2009

PAVEMENT LEGEND

	BITUMINOUS CONCRETE BINDER COURSE AND SURFACE COURSE
	COLD RECLAIMED ASPHALT PAVEMENT



PREPARED FOR:
UCONN HEALTH
263 FARMINGTON AVENUE
FARMINGTON, CONNECTICUT

PREPARED BY:
ZUVIC-CARR AND ASSOCIATES
CONSULTING ENGINEERS

UCONN HEALTH
PARKING LOT REPAIRS
LOTS D & K

GENERAL NOTES AND LEGEND

SHEET NO.

G-101

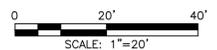
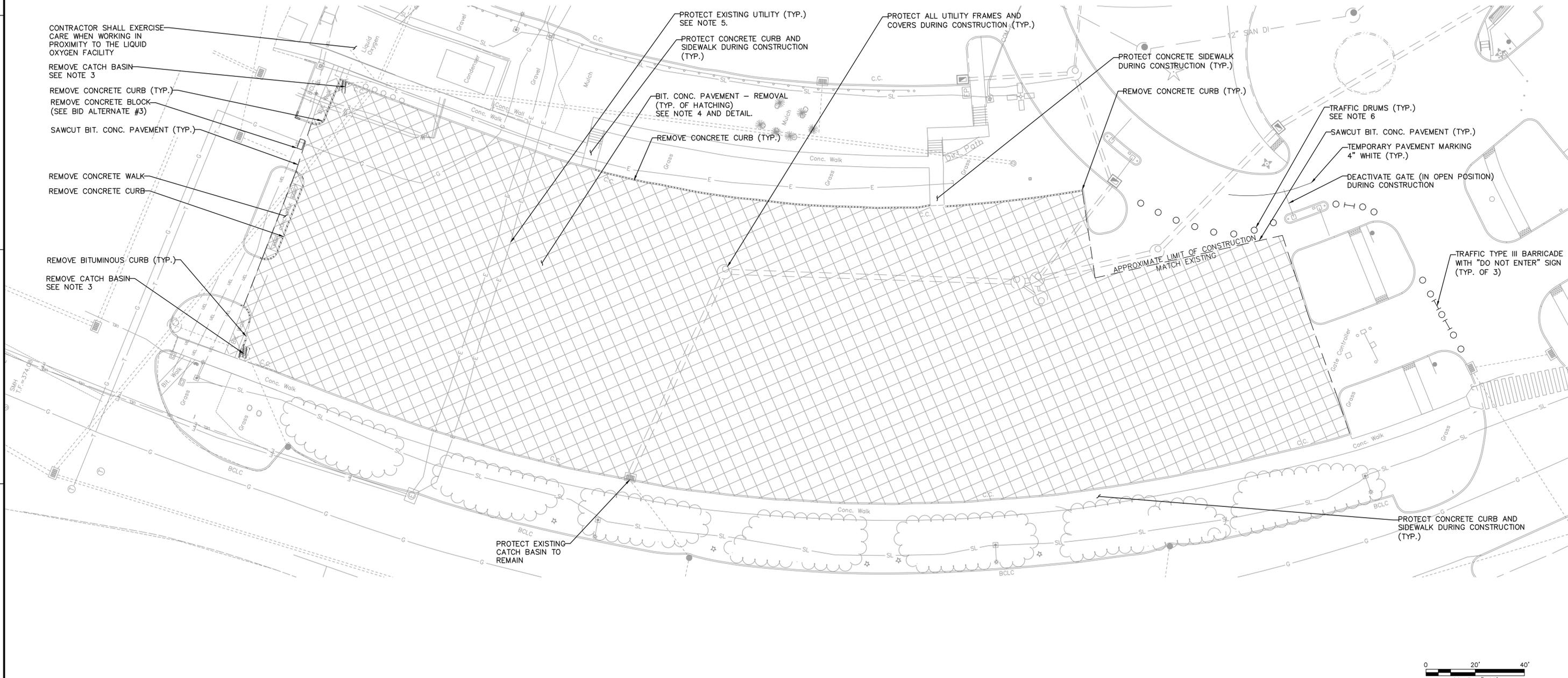
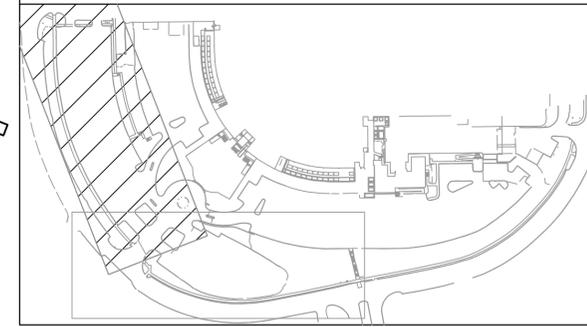
REV. NO.	DATE	DRWN	CHKD	REMARKS

PROJECT NO.: 1883
DESIGNED BY: KMI
DRAWN BY: KMI
SHEET CHK'D BY: GBS
CROSS CHK'D BY: GBS
APPROVED BY: GBS
DATE: JUNE 30, 2016

SITE DEMOLITION GENERAL NOTES

1. ALL STRUCTURES, SITE FEATURES, AND UTILITIES TO BE REMOVED SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL STATE AND LOCAL REGULATIONS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL UTILITIES, STRUCTURES, AND OTHER SITE FEATURES, INCLUDING BUT NOT LIMITED TO CONCRETE WALKS, CONCRETE PADS, BITUMINOUS CONCRETE WALKS AND BITUMINOUS CONCRETE PAVEMENT, NOT BEING REMOVED AND/OR ALTERED. THE CONTRACTOR SHALL REPAIR OR REPLACE UTILITIES OR OTHER PROPERTY DAMAGED BY OPERATIONS IN CONJUNCTION WITH EXECUTION OF THE WORK AT CONTRACTOR'S EXPENSE.
3. CATCH BASIN TO BE REPLACED IN ITS ENTIRETY INCLUDING BASE AND SUMP.
4. CONTRACTOR TO REMOVE BITUMINOUS CONCRETE. EXISTING PROCESSED AGGREGATE AND GRAVEL BASE TO REMAIN.
5. CONTRACTOR TO EXERCISE CARE WHEN WORKING OVER EXISTING UTILITIES. COMPACT (PROOFROLL) BY HAND WITH PLATE COMPACTORS FOR UTILITIES WITH LESS THAN 2' OF COVER.
6. CONTRACTOR TO INSTALL AND MAINTAIN TRAFFIC CONTROL DEVICES DURING CONSTRUCTION TO DIRECT VEHICLES AROUND CONSTRUCTION AREAS.

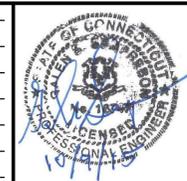
KEY PLAN



FILE PATH: h:\Projects\1883 - uconn - parking lot repairs\1883\AutoCAD\CAD\C-101.dwg PLOT DATE: 7/15/2016 PLOT TIME: 9:17:16 AM

REV. NO.	DATE	DRWN	CHKD	REMARKS

PROJECT NO.: 1883
 DESIGNED BY: KMI
 DRAWN BY: KMI
 SHEET CHK'D BY: GBS
 CROSS CHK'D BY: GBS
 APPROVED BY: GBS
 DATE: JUNE 30, 2016



PREPARED FOR:
UCONN HEALTH
 263 FARMINGTON AVENUE
 FARMINGTON, CONNECTICUT



UCONN HEALTH
PARKING LOT REPAIRS
 LOTS D & K

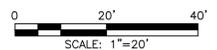
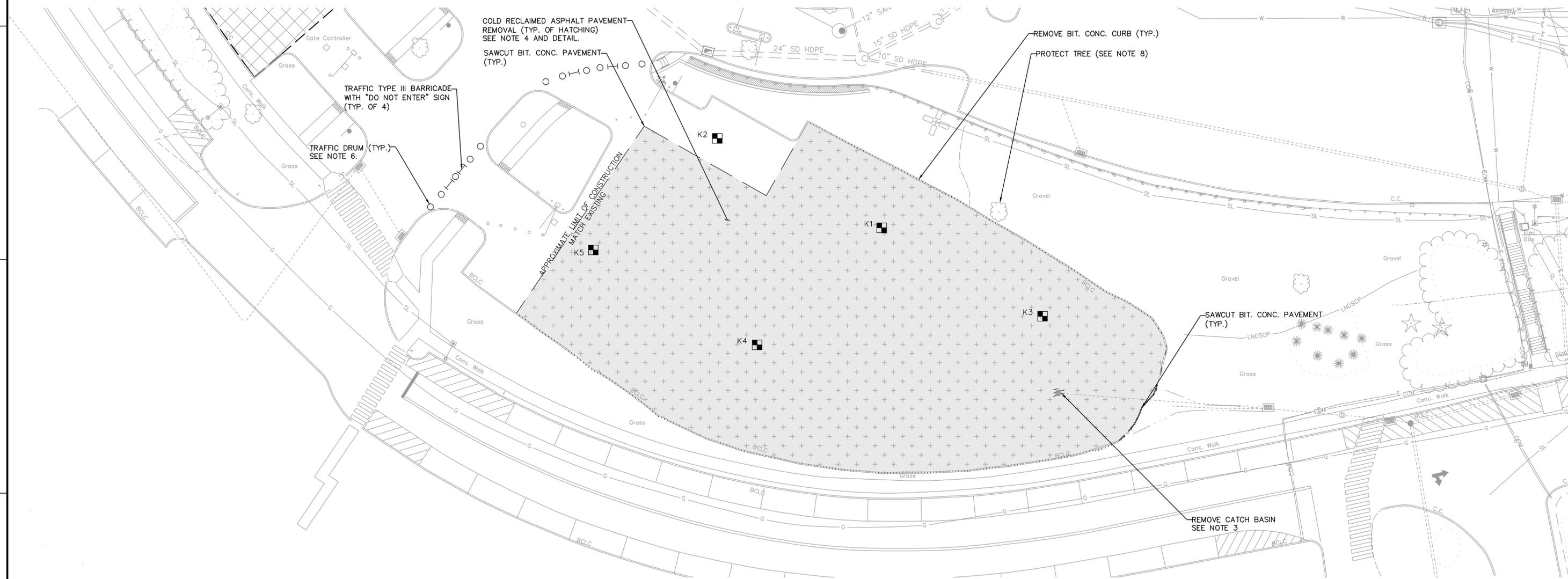
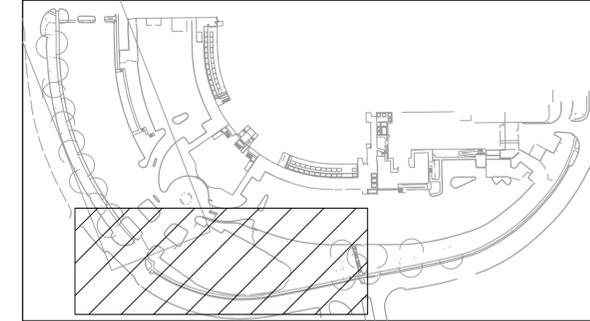
TEST PIT LOCATIONS
AND REMOVAL PLAN
 LOT D

SHEET NO.
C-101

SITE DEMOLITION GENERAL NOTES

1. ALL WORK ASSOCIATED WITH LOT K IS INCLUDED AS PART OF BID ALTERNATE #1.
2. ALL STRUCTURES, SITE FEATURES, AND UTILITIES TO BE REMOVED SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL STATE AND LOCAL REGULATIONS.
3. CATCH BASIN TO BE REPLACED IN ITS ENTIRETY INCLUDING BASE AND SUMP.
4. BITUMINOUS CONCRETE PAVEMENT TO BE COLD RECLAIMED. RECLAMATION TO BE SET TO A DEPTH OF 10".
5. CONTRACTOR TO EXERCISE CARE WHEN WORKING OVER EXISTING UTILITIES. COMPACT (PROOFROLL) BY HAND WITH PLATE COMPACTORS FOR UTILITIES WITH LESS THAN 2' OF COVER.
6. CONTRACTOR TO INSTALL AND MAINTAIN TRAFFIC CONTROL DEVICES DURING CONSTRUCTION TO DIRECT VEHICLES AROUND CONSTRUCTION AREAS.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL UTILITIES, STRUCTURES, AND OTHER SITE FEATURES, INCLUDING BUT NOT LIMITED TO CONCRETE WALKS, CONCRETE PADS, BITUMINOUS CONCRETE WALKS AND BITUMINOUS CONCRETE PAVEMENT NOT BEING REMOVED AND/OR ALTERED. THE CONTRACTOR SHALL REPAIR OR REPLACE UTILITIES OR OTHER PROPERTY DAMAGED BY OPERATIONS IN CONJUNCTION WITH EXECUTION OF THE WORK AT CONTRACTOR'S EXPENSE.
8. CONTRACTOR TO PROTECT TREE INCLUDING ROOTS. WHERE SUBSTANTIAL ROOTS WILL BE DAMAGED DUE TO PAVEMENT RECLAMATION, RECLAMATION WILL NOT BE DONE IN THOSE AREAS. IN PLACE OF RECLAMATION IN THOSE AREAS, EXISTING PAVEMENT WILL BE REMOVED, BASE MATERIAL ADDED WHERE REQUIRED, AND FINAL PAVEMENT COMPLETED.

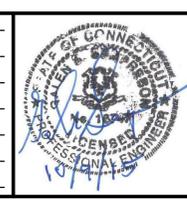
KEY PLAN



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REV. NO.	DATE	DRWN	CHKD	REMARKS

PROJECT NO.: 1883
 DESIGNED BY: KMI
 DRAWN BY: KMI
 SHEET CHK'D BY: GBS
 CROSS CHK'D BY: GBS
 APPROVED BY: GBS
 DATE: JUNE 30, 2016



PREPARED FOR:
UCONN HEALTH
 263 FARMINGTON AVENUE
 FARMINGTON, CONNECTICUT



UCONN HEALTH
PARKING LOT REPAIRS
 LOTS D & K

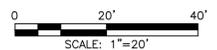
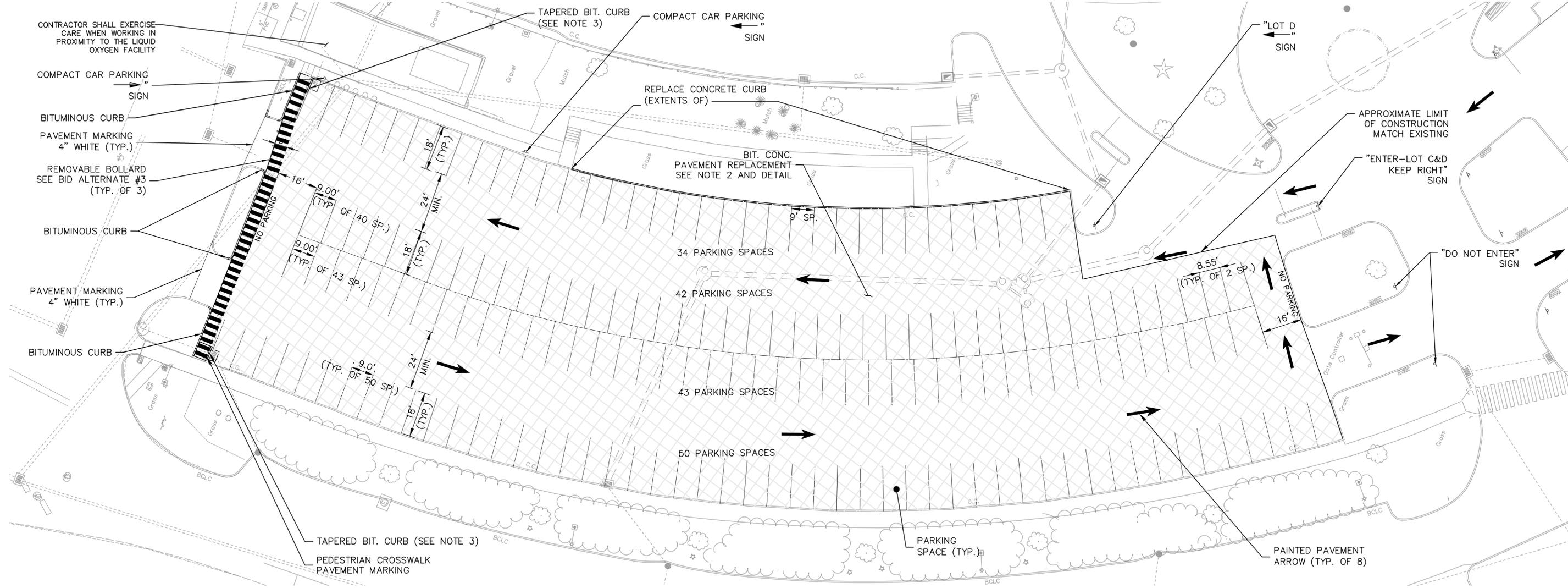
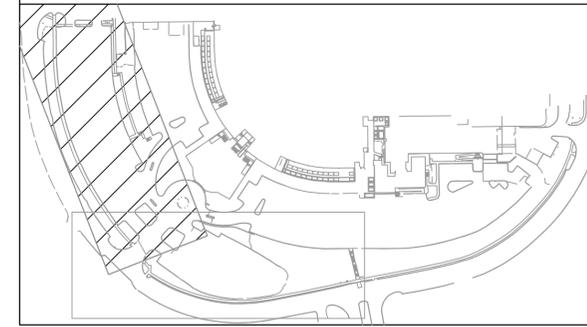
TEST PIT LOCATIONS
AND REMOVAL PLAN
LOT K

SHEET NO.
C-102

NOTES:

1. ALL PAVEMENT MARKING (LINES AND TEXT) SHALL BE WHITE.
2. SEE BITUMINOUS CONCRETE PAVEMENT - REPLACEMENT DETAIL FOR PAVEMENT SECTION.
3. TAPERED BIT. CURB TO TAPER FROM 6" AT EXISTING CONCRETE WALK TO 0" AT BOTTOM OF RAMP.

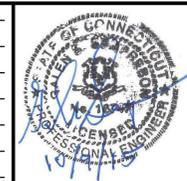
KEY PLAN



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REV. NO.	DATE	DRWN	CHKD	REMARKS

PROJECT NO.: 1883
 DESIGNED BY: KMI
 DRAWN BY: KMI
 SHEET CHK'D BY: GBS
 CROSS CHK'D BY: GBS
 APPROVED BY: GBS
 DATE: JUNE 30, 2016



PREPARED FOR:
UCONN HEALTH
 263 FARMINGTON AVENUE
 FARMINGTON, CONNECTICUT



PREPARED BY:
UCONN HEALTH
PARKING LOT REPAIRS
 LOTS D & K

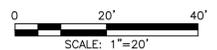
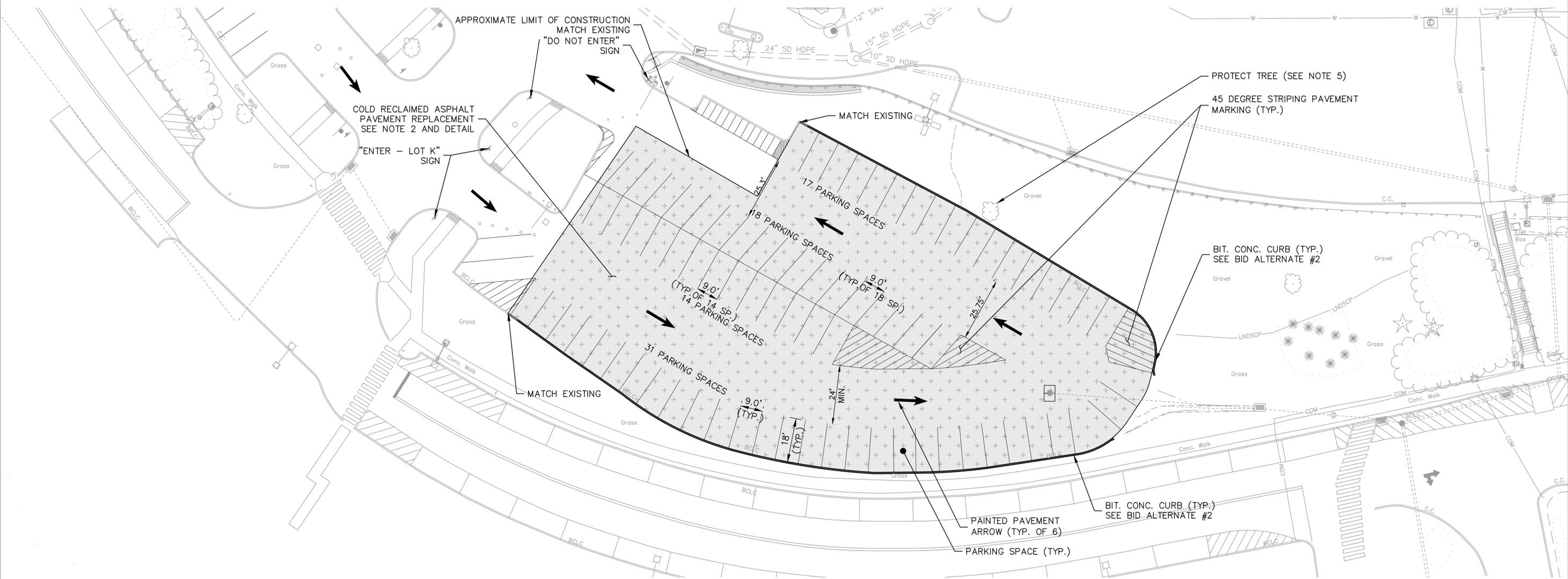
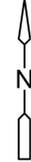
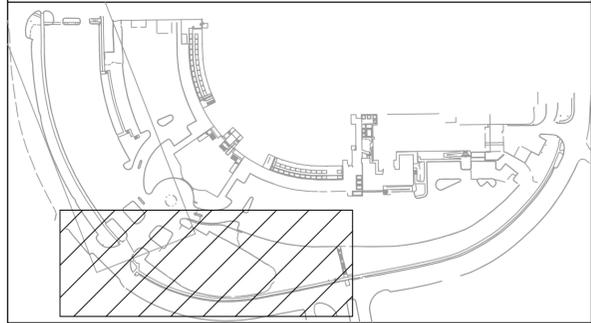
SHEET NO.
SITE IMPROVEMENT PLAN
 LOT D

C-103

NOTES:

1. ALL WORK ASSOCIATED WITH LOT K IS INCLUDED AS PART OF BID ALTERNATE #1.
2. ALL PAVEMENT MARKING (LINES AND TEXT) SHALL BE WHITE.
3. SEE COLD RECLAIMED ASPHALT PAVEMENT SECTION DETAIL FOR PAVEMENT SECTION.
4. PARKING SPACES ARE 9'X18' UNLESS SHOWN OTHERWISE.
5. CONTRACTOR TO PROTECT TREE INCLUDING ROOTS. WHERE SUBSTANTIAL ROOTS WILL BE DAMAGED DUE TO PAVEMENT RECLAMATION, RECLAMATION WILL NOT BE DONE IN THOSE AREAS. IN PLACE OF RECLAMATION IN THOSE AREAS, EXISTING PAVEMENT WILL BE REMOVED, BASE MATERIAL ADDED WHERE REQUIRED AND FINAL PAVING COMPLETED.

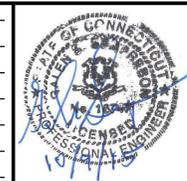
KEY PLAN



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REV. NO.	DATE	DRWN	CHKD	REMARKS

PROJECT NO.: 1883
 DESIGNED BY: KMI
 DRAWN BY: KMI
 SHEET CHK'D BY: GBS
 CROSS CHK'D BY: GBS
 APPROVED BY: GBS
 DATE: JUNE 30, 2016



PREPARED FOR:
UCONN HEALTH
 263 FARMINGTON AVENUE
 FARMINGTON, CONNECTICUT



PREPARED BY:
UCONN HEALTH
PARKING LOT REPAIRS
 LOTS D & K

SITE IMPROVEMENT PLAN
LOT K

SHEET NO.
C-104

EROSION AND SEDIMENT CONTROL PLAN

- SILT FENCE SHALL BE INSTALLED ALONG THE BASE OF THE SLOPE AS SHOWN OR AS REQUIRED BY THE ENGINEER.
- SILT SACKS AND/OR HAYBALES SHALL BE INSTALLED AT ALL CATCH BASINS AS SHOWN ON PLANS.
- CONTRACTOR SHALL PERFORM PERIODIC SWEEPING OF PAVEMENT IN CONSTRUCTION WORK AREA AS A DUST CONTROL MEASURE.
- SOIL EROSION AND SEDIMENT CONTROLS SHALL BE MAINTAINED BY THE CONTRACTOR THROUGHOUT THE CONSTRUCTION PERIOD AND UNTIL ALL DISTURBED AREAS ARE THOROUGHLY STABILIZED.
- ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL HANDBOOK.
- EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO CONSTRUCTION WHENEVER POSSIBLE.
- ADDITIONAL CONTROL MEASURES SHALL BE INSTALLED DURING THE CONSTRUCTION PERIOD AS NECESSARY OR REQUIRED.
- SEDIMENT REMOVED FROM CONTROL STRUCTURES SHALL BE DISPOSED OF IN A MANNER WHICH IS CONSISTENT WITH THE INTENT OF THE PLAN.

INSTALLATION OF SEDIMENTATION AND EROSION CONTROL MEASURES

SILT FENCE

- DIG A SIX INCH TRENCH ON THE UPHILL SIDE OF THE DESIGNATED FENCELINE LOCATION.
- POSITION THE POST AT THE BACK OF THE TRENCH (DOWNHILL SIDE), AND HAMMER THE POST AT LEAST 1.5 FEET INTO THE GROUND.
- LAY THE BOTTOM SIX INCHES OF THE FABRIC INTO THE TRENCH TO PREVENT UNDERMINING BY STORM WATER RUN-OFF.
- BACKFILL THE TRENCH AND COMPACT.

HAYBALES

- HAYBALES SHALL BE PLACED AROUND ALL CATCH BASINS IN GRASSED AREAS.
- SIDES OF ADJACENT BALES SHALL TIGHTLY ABUT ONE ANOTHER.
- BALES SHALL BE ENTRENCHED AND BACKFILLED. A TRENCH SHALL BE EXCAVATED THE WIDTH OF A BALE AND THE LENGTH OF THE PROPOSED BARRIER TO A MINIMUM DEPTH OF FOUR INCHES. AFTER THE BALES ARE STAKED, THE EXCAVATED SOIL SHALL BE BACKFILLED AGAINST THE BARRIER.
- EACH BALE SHALL BE SECURELY ANCHORED BY AT LEAST TWO (2) STAKES.
- THE GAPS BETWEEN BALES SHALL BE WEDGED WITH STRAW TO PREVENT WATER LEAKAGE.

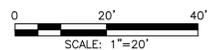
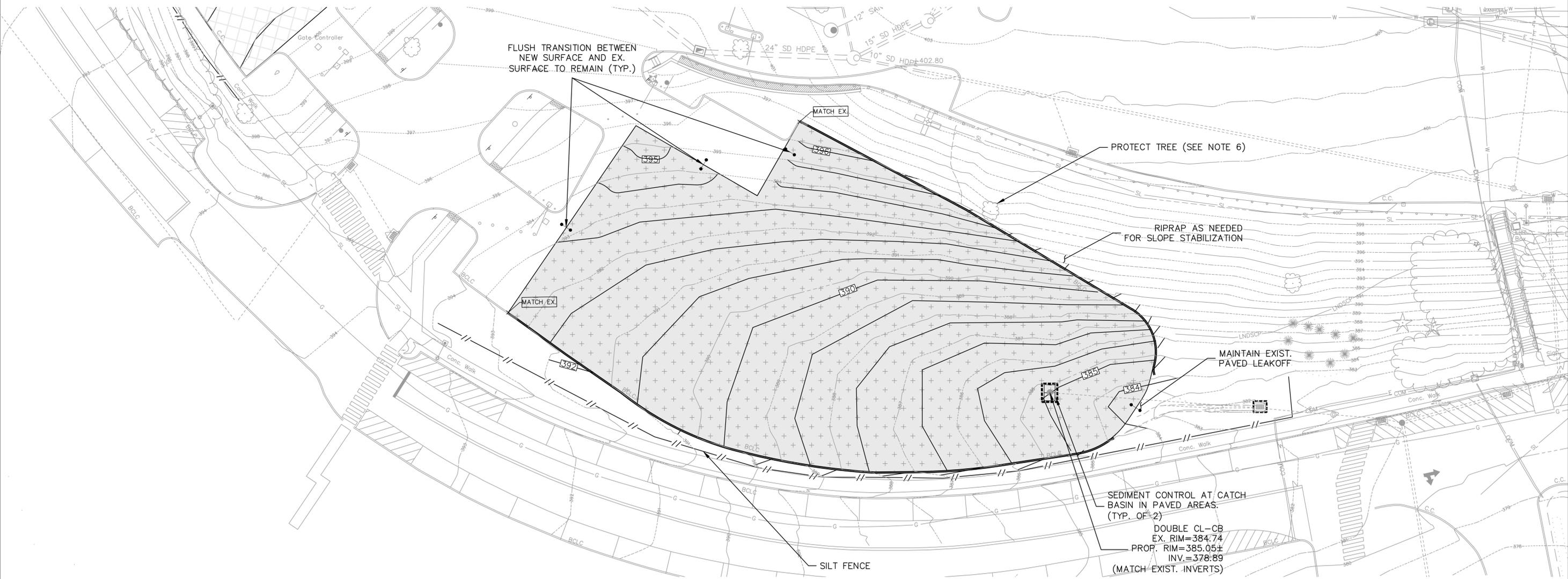
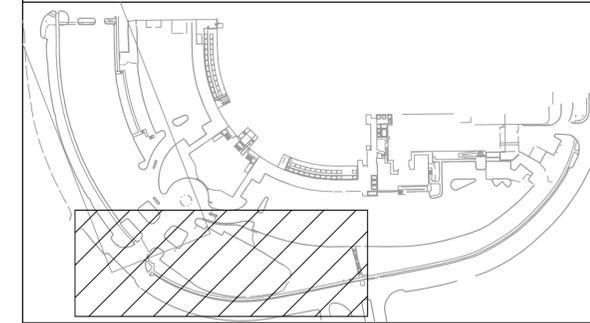
SILT SACKS

- PROVIDE SILT SACKS IN ALL CATCH BASINS IN PAVED AREAS AS SHOWN ON PLANS.

NOTES

- ALL WORK ASSOCIATED WITH LOT K IS INCLUDED AS PART OF BID ALTERNATE #1.
- INSTALL NEW PAVEMENT FLUSH WITH EXISTING PAVEMENT.
- ALL CATCH BASINS AND MANHOLES WITHIN THE LIMITS OF CONSTRUCTION SHALL BE SET FLUSH WITH FINISH GRADES.
- INSTALL EROSION CONTROL MATTING ON ALL SEEDED AREAS FOR TURF ESTABLISHMENT WHERE THE SLOPE EXCEEDS 3:1.
- STABILIZE ALL DISTURBED SURFACES ADJACENT TO PARKING LOT WITH TURF ESTABLISHMENT.
- CONTRACTOR TO PROTECT TREE INCLUDING ROOTS. WHERE SUBSTANTIAL ROOTS WILL BE DAMAGED DUE TO PAVEMENT RECLAMATION, RECLAMATION WILL NOT BE DONE IN THOSE AREAS. IN PLACE OF RECLAMATION IN THOSE AREAS, EXISTING PAVEMENT WILL BE REMOVED, BASE MATERIAL ADDED WHERE REQUIRED, AND FINAL PAVING COMPLETED.
- REFER TO SHEET C-105 FOR ADDITIONAL SOIL EROSION AND SEDIMENTATION CONTROL NOTES.

KEY PLAN

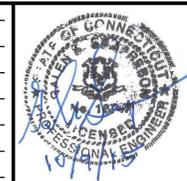


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PROJECT NO.:	1883
DESIGNED BY:	KMI
DRAWN BY:	KMI
SHEET CHK'D BY:	GBS
CROSS CHK'D BY:	GBS
APPROVED BY:	GBS
DATE:	JUNE 30, 2016

REV. NO.	DATE	DRWN	CHKD	REMARKS
1	7/13/16	KMI	GBS	SPCP

PROJECT NO.: 1883
 DESIGNED BY: KMI
 DRAWN BY: KMI
 SHEET CHK'D BY: GBS
 CROSS CHK'D BY: GBS
 APPROVED BY: GBS
 DATE: JUNE 30, 2016



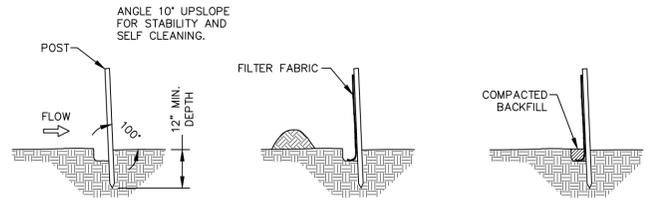
PREPARED FOR:
UCONN HEALTH
 263 FARMINGTON AVENUE
 FARMINGTON, CONNECTICUT



PREPARED BY:
UCONN HEALTH
PARKING LOT REPAIRS
 LOTS D & K

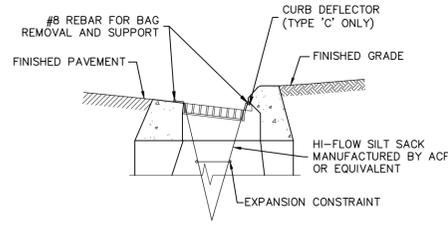
GRADING & EROSION CONTROL PLAN
 LOT K

SHEET NO.
C-106



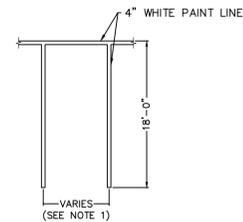
1. SET POSTS AND EXCAVATE A 6"x6" TRENCH. SET POST DOWNSLOPE.
2. ATTACH FILTER FABRIC FENCING TO POST AND EXTEND IT TO THE TRENCH BOTTOM.
3. BACKFILL THE TRENCH AND COMPACT THE EXCAVATED SOIL.

TYPICAL SILT FENCE INSTALLATION
NOT TO SCALE



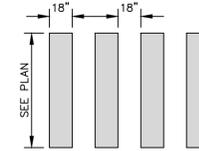
- NOTES:**
1. SILT SACKS SHALL BE EMPTIED WHEN THEY HAVE COLLECTED 6" TO 12" OF SEDIMENT. INSPECT EVERY 1 TO 2 WEEKS AND AFTER EVERY MAJOR RAINFALL EVENT.
 2. SILT SACKS MAY BE USED IN OTHER TYPES OF STORM DRAINAGE INLETS. TYPE 'C' CATCH BASIN SHOWN FOR CLARITY.

SEDIMENT CONTROL AT CATCH BASIN IN PAVED AREAS
NOT TO SCALE

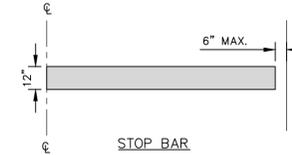


- NOTES:**
1. SEE SITE IMPROVEMENT PLAN FOR ACTUAL SPACE LOCATION AND DIMENSIONS.
 2. PROVIDE TWO COATS OF PAINT ON ALL SURFACES.

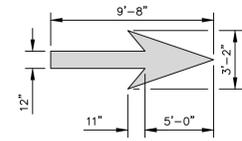
TYPICAL PARKING SPACE
NOT TO SCALE



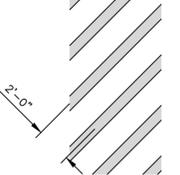
CROSS WALK



STOP BAR

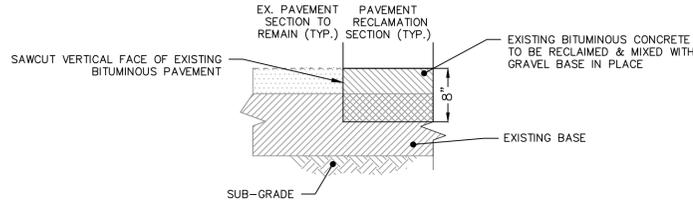


DIRECTIONAL ARROW

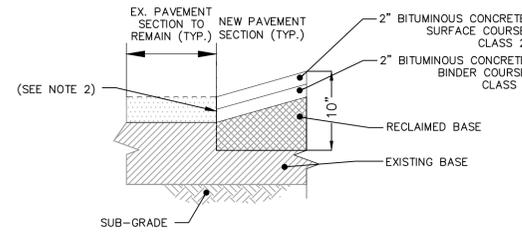


45 DEG STRIPING

TYPICAL PAVEMENT MARKINGS
NOT TO SCALE

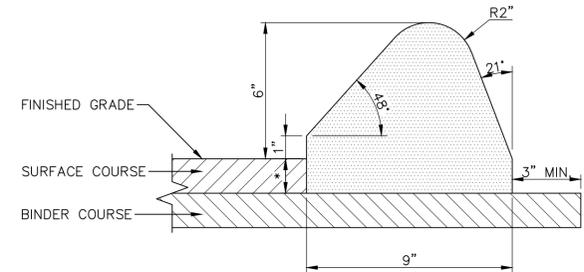


COLD RECLAIMED ASPHALT PAVEMENT - REMOVAL
NOT TO SCALE



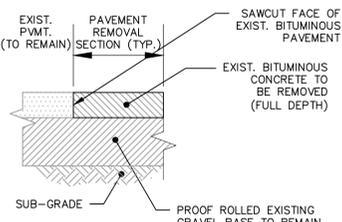
- NOTES:**
1. COLD RECLAIMED ASPHALT PAVEMENT SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 4.03 OF THE CONNECTICUT DEPARTMENT OF TRANSPORTATION FORM 816.
 2. APPLY TACK COAT MATERIAL TO INTERFACE OF EXISTING AND PROPOSED BITUMINOUS CONCRETE PAVEMENT AT A RATE OF 0.05 GALLONS PER SQUARE YARD PRIOR TO PAVING OPERATIONS AND BETWEEN LIFTS OF PROPOSED PAVEMENT IF MORE THAN FIVE DAYS HAVE ELAPSED BETWEEN LIFTS.
 3. PAVEMENT TRANSITION TO EXISTING BITUMINOUS PAVEMENT WILL BE ESTABLISHED AND CONFORM TO SPECIAL PROVISION SECTION 4.06 - BITUMINOUS CONCRETE.

COLD RECLAIMED ASPHALT PAVEMENT REPLACEMENT
NOT TO SCALE

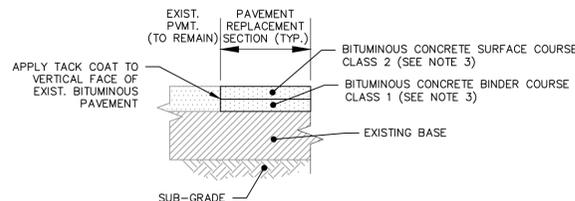


- NOTES:**
1. * MATCH THICKNESS OF PAVEMENT SURFACE COURSE (VIF).
 2. WHERE NEW CURB MEETS EXISTING CURB, TRANSITION TO MATCH PROFILE OF EXISTING CURB.

BITUMINOUS CONCRETE LIP CURB
NOT TO SCALE

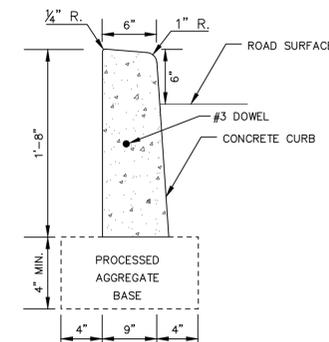


BITUMINOUS CONCRETE PAVEMENT - REMOVAL
NOT TO SCALE

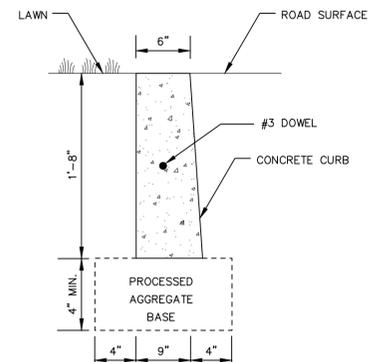


- NOTES:**
1. CLASS 1 AND CLASS 2 BITUMINOUS CONCRETE MIXTURES SHALL COMPLY WITH CT DOT FORM 816 SECTION M.04.
 2. THE FINAL FINISHED GRADE OF THE PAVEMENT SHALL PROVIDE A UNIFORM SURFACE.
 3. INSTALL 2" BITUMINOUS CONCRETE SURFACE COURSE AND 2" BITUMINOUS CONCRETE BINDER COURSE.

BITUMINOUS CONCRETE PAVEMENT - REPLACEMENT
NOT TO SCALE



CONCRETE CURB
NOT TO SCALE



FLUSH CONCRETE CURB
NOT TO SCALE

FILE PATH: h:\Projects\1883 - uconn - parking lot repairs\1883-Details.dwg PLOT DATE: 7/15/2016 PLOT TIME: 9:20:07 AM

REV. NO.	DATE	DRWN	CHKD	REMARKS

PROJECT NO.: 1883
 DESIGNED BY: KMI
 DRAWN BY: KMI
 SHEET CHK'D BY: GBS
 CROSS CHK'D BY: GBS
 APPROVED BY: GBS
 DATE: JUNE 30, 2016



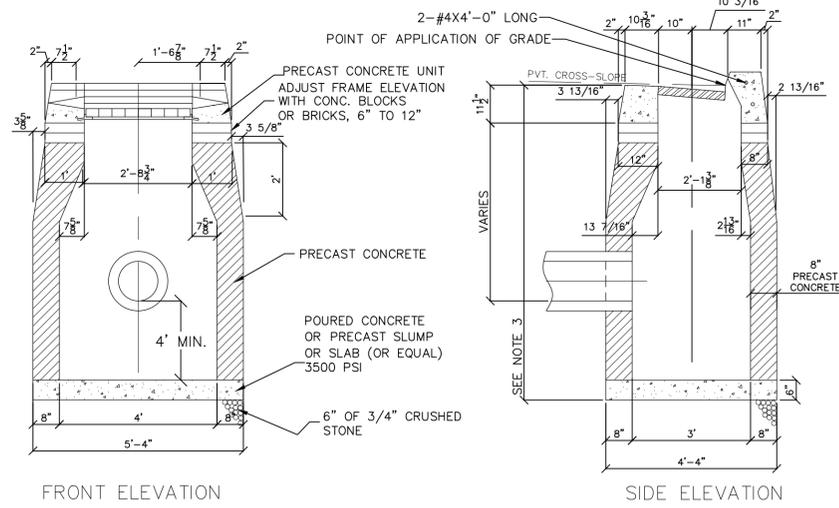
PREPARED FOR:
UCONN HEALTH
 263 FARMINGTON AVENUE
 FARMINGTON, CONNECTICUT



PREPARED BY:
UCONN HEALTH
PARKING LOT REPAIRS
 LOTS D & K

DETAILS

SHEET NO.
C-501



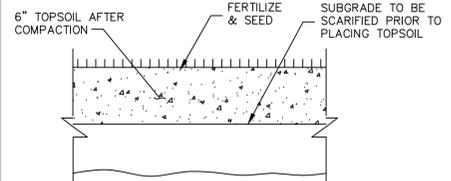
FRONT ELEVATION

SIDE ELEVATION

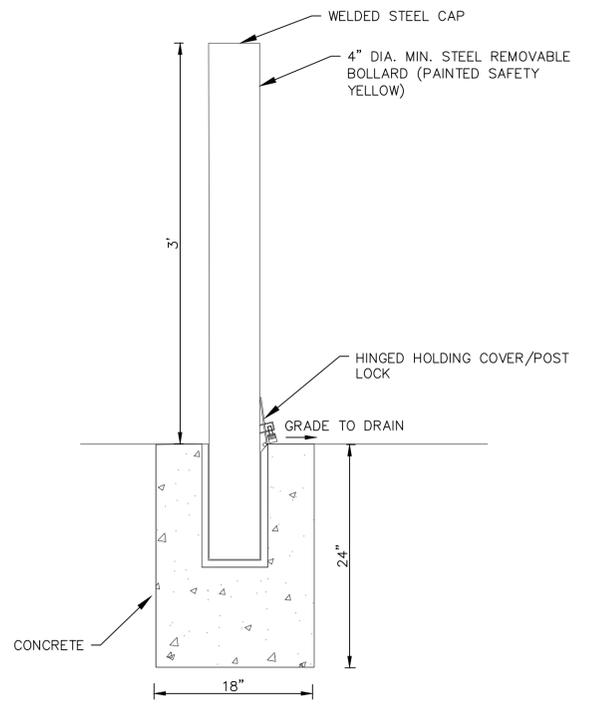
NOTES:

1. MINIMUM COVER OVER TOP OF PIPE SHALL BE 2'-0".
2. WALL THICKNESS SHALL BE SUFFICIENT TO MEET HS-20 LOADING.
3. WALL THICKNESS FOR STRUCTURES OVER 10' HIGH IS 12" FOR CONCRETE BLOCK UNITS. INSIDE DIMENSIONS REMAIN THE SAME.
4. ALL PIPES SHALL BE CUT FLUSH WITH INSIDE WALLS.
5. ALL BRICKS SHALL BE CONCRETE.
6. ALL PIPE PENETRATIONS SHALL BE PARGED SMOOTH TO PROVIDE A WATERTIGHT SEAL BOTH INSIDE AND OUTSIDE THE BASIN.
7. INSIDE WALLS OF STRUCTURE TO BE SMOOTH. NO SHELVES ALLOWED.
8. IF A 4' SUMP IS NOT POSSIBLE DUE TO UTILITY CONFLICTS OR SITE CONSTRAINTS, A 2' SUMP MAY BE SUBMITTED FOR APPROVAL BY THE ENGINEER.
9. FRAME AND GRATE SHALL BE GALVANIZED.

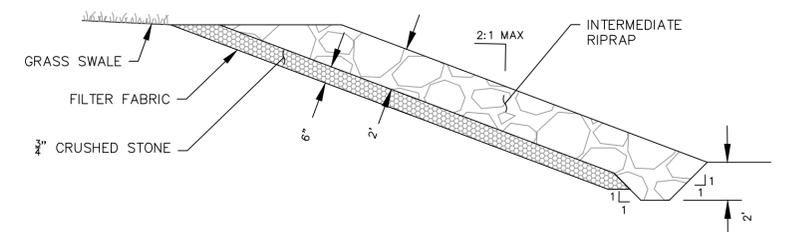
TYPE "C" CATCH BASIN
NOT TO SCALE



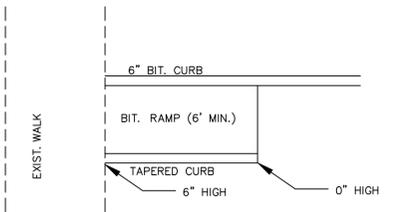
TURF ESTABLISHMENT DETAIL
NOT TO SCALE



REMOVABLE BOLLARD
NOT TO SCALE

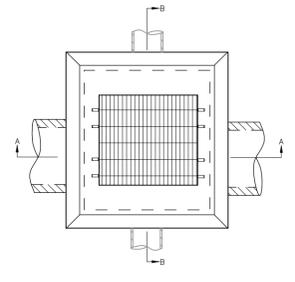


RIPRAP FOR SLOPE STABILIZATION
NOT TO SCALE



BITUMINOUS RAMP
NOT TO SCALE

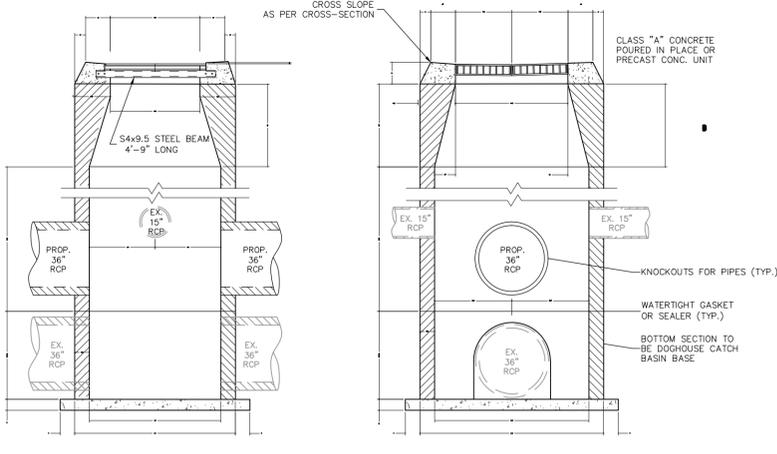
NOTE: BIT RAMP TO BE 3" BIT. CONC. ON 6" GRAVEL BASE.



PLAN

BRICK, CLASS "A" CONC. MASONRY CONC. UNITS. WHERE BRICK OR MASONRY CONC. ARE USED, CORRELLING WILL BE PERMITTED MAX. CORREL TO BE 3" NO PROTECTION SHALL EXTEND INSIDE OF LIMITS NOTED BY**

WHERE PRECAST CONC. UNIT IS USED FOR SUMP, THE UNIT SHALL BE AT LEAST 6" BELOW THE BOTTOM OF THE PIPE OUTLET FROM THE CATCH BASIN



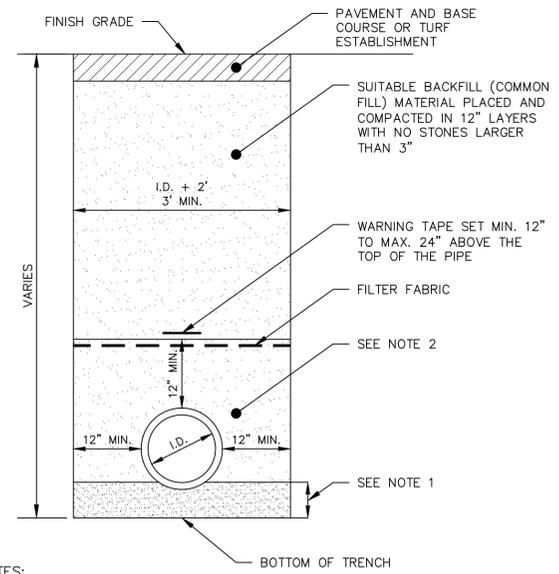
SECTION A-A

SECTION B-B

NOTES:

1. CATCH BASIN TO BE PROVIDED WITH A MINIMUM OF 2' SUMP BELOW LOWER (EXISTING) PIPE.
2. LOWER (EXISTING) AND UPPER (NEW) PIPES TO BE CUT FLUSH WITH INSIDE FACE OF STRUCTURE.

TYPE C-L PRECAST CONCRETE CATCH BASIN
DOUBLE GRATE TYPE I
NOT TO SCALE



NOTES:

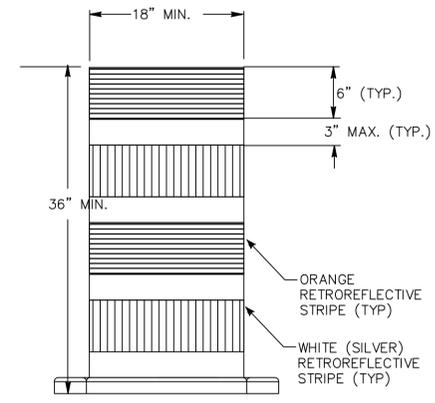
1. FOR HDPE PIPE, INSTALL 6" SAND BEDDING MATERIAL OR 3/4" CRUSHED STONE WHEN IN ROCK OR UNSUITABLE MATERIAL. FOR CONCRETE PIPE, INSTALL 3" GRANULAR FILL.
2. FOR HDPE PIPE, INSTALL 3/4" CRUSHED STONE. FOR CONCRETE PIPE, INSTALL GRANULAR FILL.

TYPICAL STORM TRENCH
NOT TO SCALE

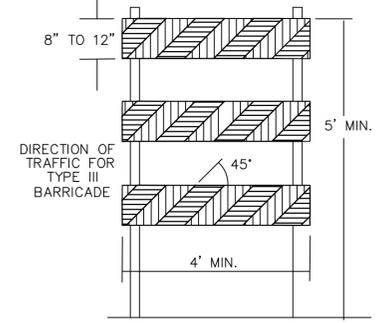
CONSTRUCTION BARRICADE

NOTES:

1. CONSTRUCTION BARRICADES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) AND THE LATEST EDITION OF THE MUTCD.
2. MARKINGS FOR BARRICADE RAILS SHALL BE ALTERNATE ORANGE AND WHITE STRIPES SLOPING DOWNWARD IN THE DIRECTION TRAFFIC IS TO PASS. 6" WIDE STRIPES SHALL BE USED.
3. CORNERS OF BARRICADE RAILS SHALL BE ROUNDED.
4. THE ENTIRE AREA OF ORANGE AND WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS.



CONSTRUCTION TRAFFIC BARRICADE AND DRUM
NOT TO SCALE



TYPE III BARRICADE
(TYP.)

TRAFFIC DRUM

NOTES:

1. TRAFFIC DRUMS SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) AND THE LATEST EDITION OF THE MUTCD.
2. THE ENTIRE AREA OF ORANGE AND WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS.
3. THE SECTIONS OF DRUMS NOT COVERED WITH RETROREFLECTIVE STRIPES SHALL BE ORANGE.

FILE PATH: h:\Projects\1883 - uconn, parking lot repairs for uconn\AutoCAD\CAD\C502_Details.dwg PLOT DATE: 7/15/2016 PLOT TIME: 9:20:15 AM

PROJECT NO.:	1883
DESIGNED BY:	KMI
DRAWN BY:	KMI
SHEET CHK'D BY:	GBS
CROSS CHK'D BY:	GBS
APPROVED BY:	GBS
DATE:	JUNE 30, 2016



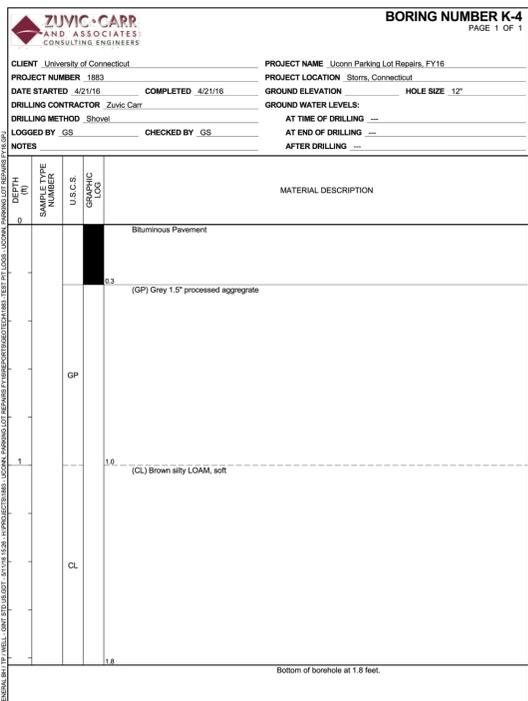
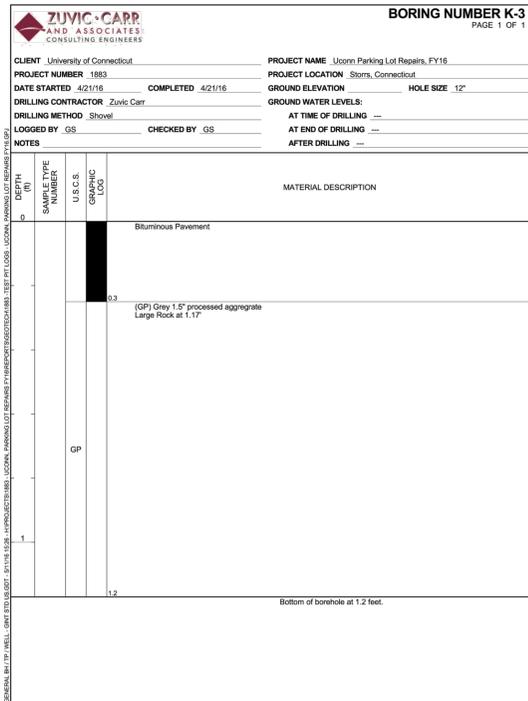
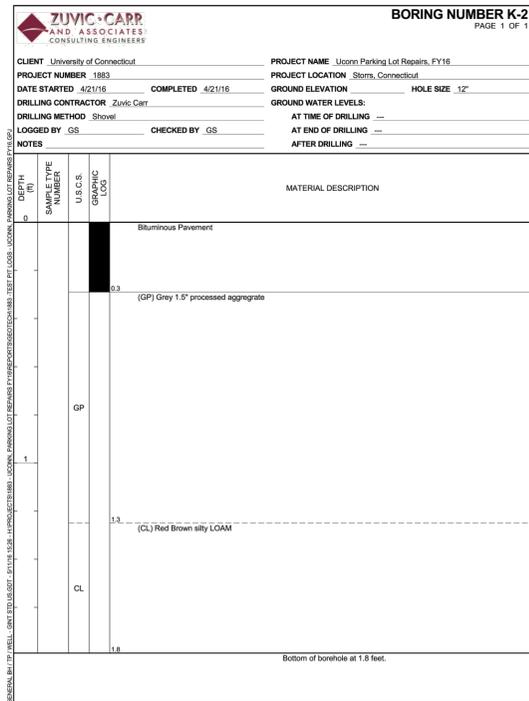
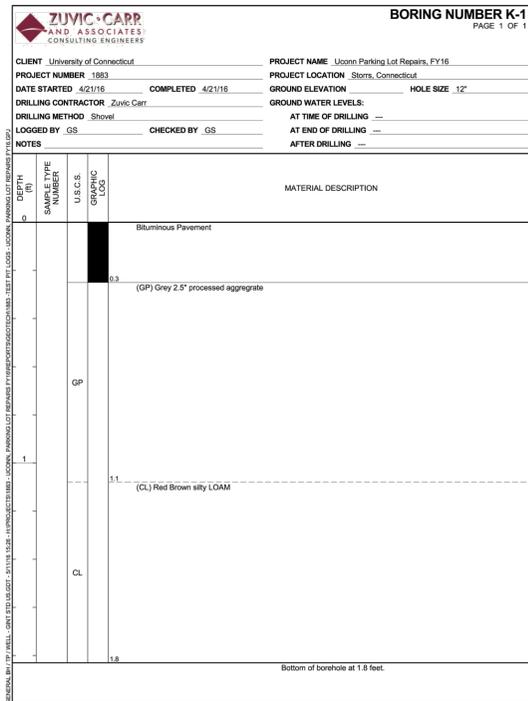
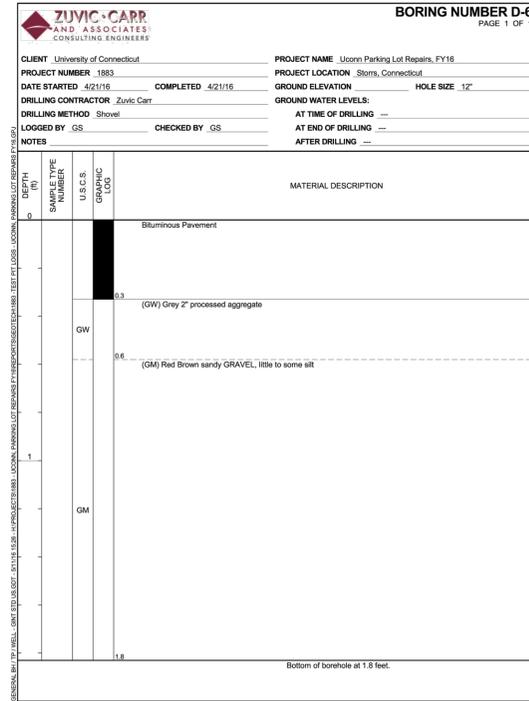
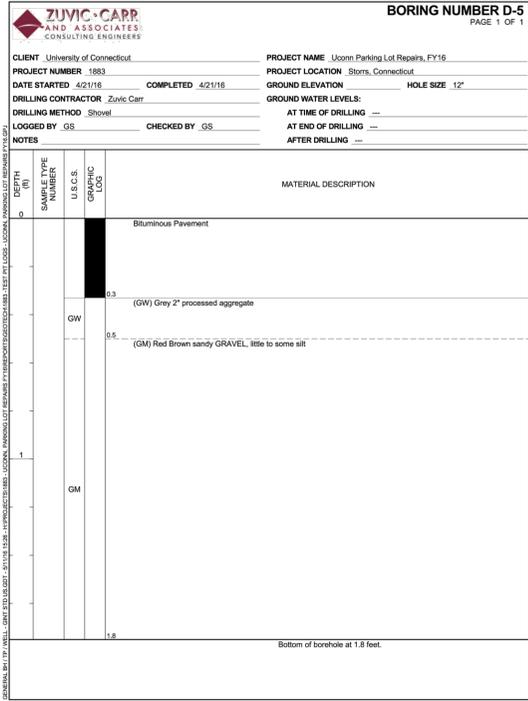
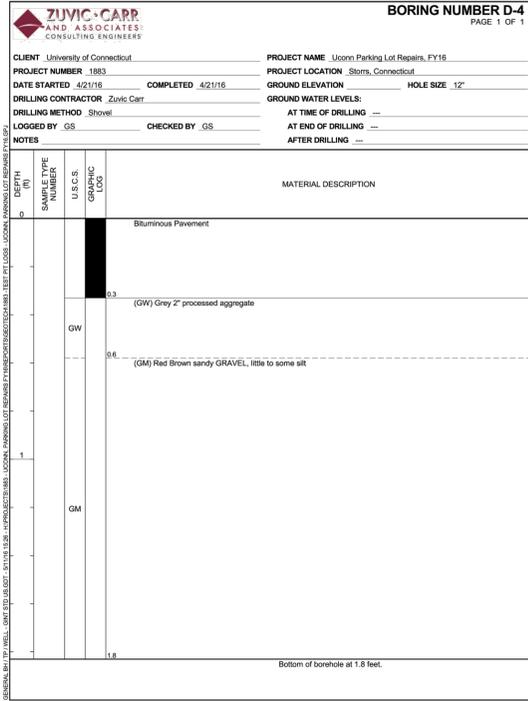
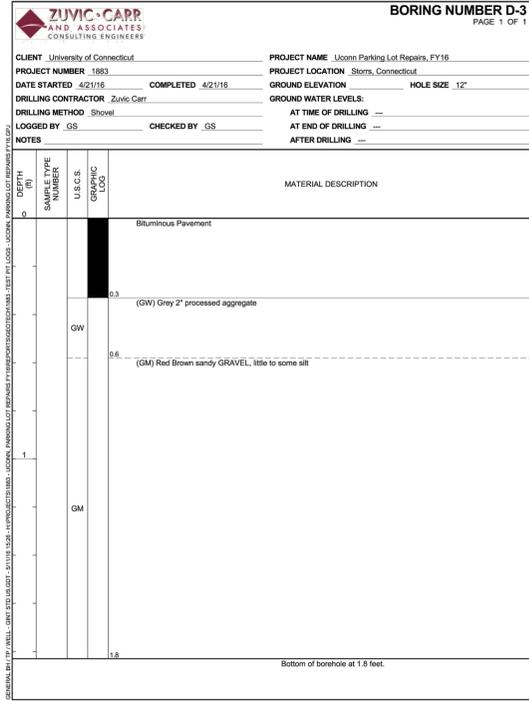
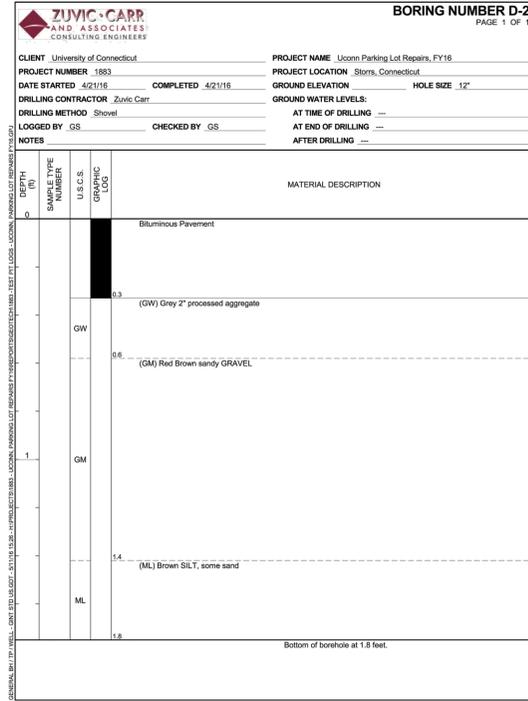
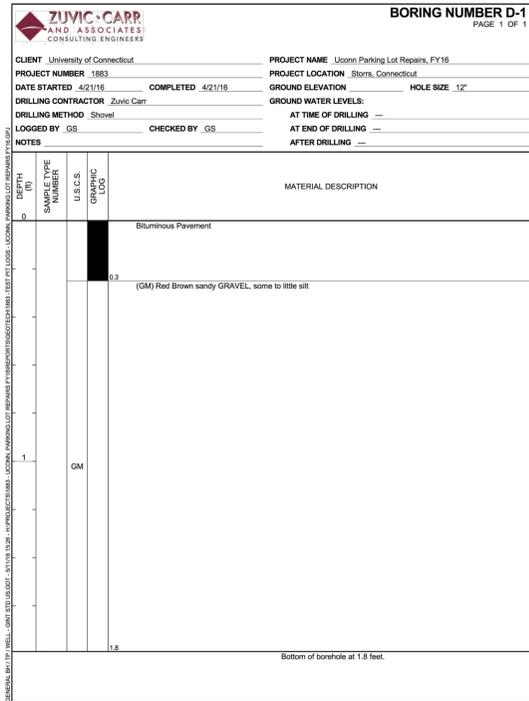
PREPARED FOR:
UCONN HEALTH
263 FARMINGTON AVENUE
FARMINGTON, CONNECTICUT

PREPARED BY:
ZUVIC-CARR AND ASSOCIATES
CONSULTING ENGINEERS

UCONN HEALTH
PARKING LOT REPAIRS
LOTS D & K

DETAILS

SHEET NO.
C-502



FILE PATH: h:\Projects\1883 - uconn, parking lot repairs\1883-C-503-Details.dwg PLOT DATE: 7/15/2016 PLOT TIME: 9:20:20 AM

REV. NO.	DATE	DRWN	CHKD	REMARKS

PROJECT NO.: 1883
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 SHEET CHK'D BY: GBS
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 APPROVED BY: GBS
 DATE: JUNE 30, 2016



PREPARED FOR:
UConn Health
 263 FARMINGTON AVENUE
 FARMINGTON, CONNECTICUT



PREPARED BY:
UConn Health
PARKING LOT REPAIRS
 LOTS D & K

BORING DATA

SHEET NO.
C-503

