

# 2393.0 SOUTH CAMPUS PARKING LOT UNIVERSITY OF KENTUCKY

LEXINGTON, KENTUCKY  
APRIL 2014



CAPITAL PROJECT MANAGEMENT DIVISION  
UNIVERSITY OF KENTUCKY



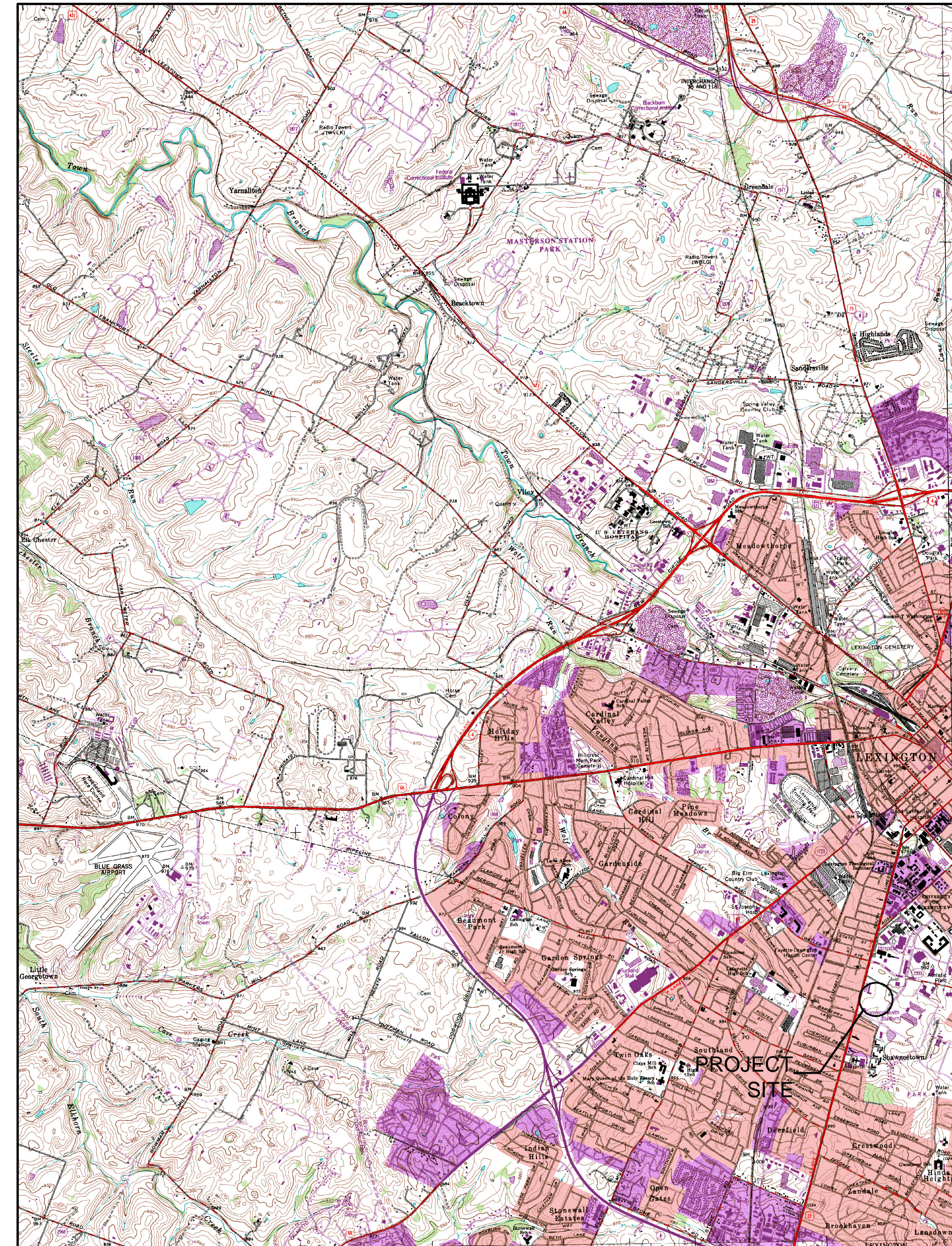
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3264 LOCHNESS DRIVE  
LEXINGTON, KY 40517  
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stengineering.com



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1022 FONTAINE ROAD  
LEXINGTON, KY 40502  
(859) 559-3443  
abbie-jones.com

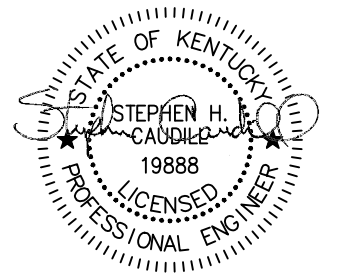
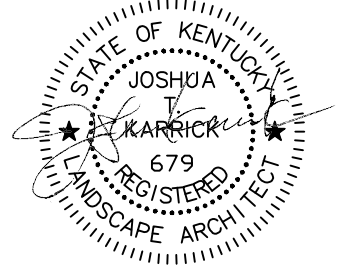
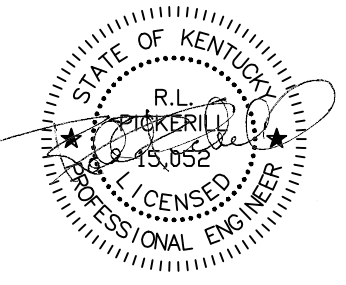
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VICINITY MAP  
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CONTRACT NO.  
600-037  
2014

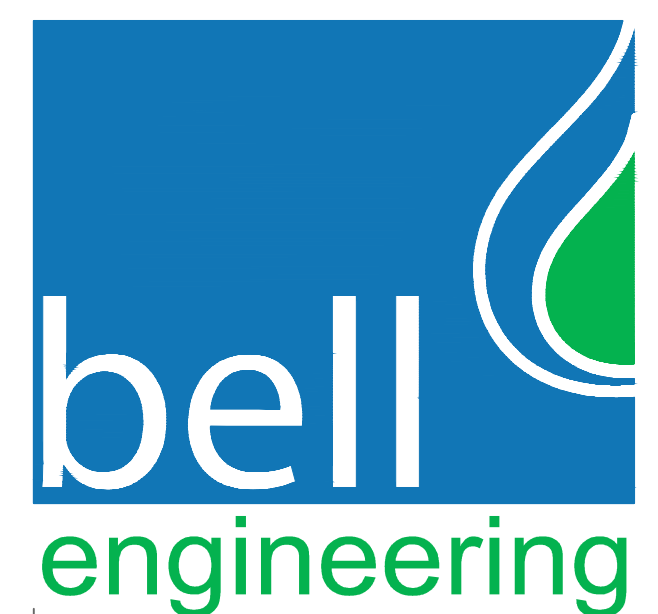


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- SCHEMATIC DESIGN
- DESIGN DEVELOPMENT
- UK REVIEW 95%
- BELL REVIEW
- BID DOCUMENTS
- RECORD DRAWINGS



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lexington, kentucky 40509  
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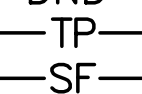
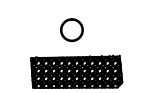





## UTILITIES

- U10 SITE UTILITIES PLAN

## LANDSCAPING

- L10 LANDSCAPING PLAN
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## LEGEND

- EXISTING OVERHEAD ELECTRIC —OHE—
- EXISTING STORM SEWER —STORM—
- EXISTING GAS LINE —GAS—
- CABLE TELEVISION —CTV—
- EXISTING UNDERGROUND ELECTRIC —UGE—OR—12KV—
- EXISTING WATER LINE —WL—
- EXISTING LIGHT POLE 
- EXISTING CONTOURS —1024—
- PROPOSED CONTOURS —1024—
- PROPOSED STORM SEWER 
- DRAINAGE (direction of flow) 
- EXISTING TREES 
- EXISTING TREE OR BUSH TO BE REMOVED 
- DRAIN INLET DI
- CURB INLET CI
- HEADWALL HW
- TOP OF STEP TS
- DO NOT DISTURB DND
- TREE PROTECTION FENCING TP
- SILT FENCE SF
- TEMPORARY DIVERSION DITCH TD
- LIMITS OF DISTURBANCE 
- EXISTING BOLLARDS 
- EXISTING RIPRAP 
- PROPOSED RIPRAP 
- EXISTING MANHOLE 
- PROPOSED MANHOLE 

### CONTROL POINTS

SEE SHEET C30 FOR CONTROL POINTS.

### BEFORE YOU DIG - CALL 811

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### UTILITY OWNERS

KENTUCKY AMERICAN WATER COMPANY  
2300 RICHMOND ROAD  
LEXINGTON, KENTUCKY 40502  
PHONE: 859-268-6357

COLUMBIA GAS OF KENTUCKY  
P.O. BOX 241  
LEXINGTON, KENTUCKY  
PHONE: 859-288-0243

KENTUCKY UTILITIES  
500 STONE ROAD  
LEXINGTON, KENTUCKY 40503  
PHONE: 859-278-9355

LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT  
DIVISION OF WATER QUALITY  
125 LISLE INDUSTRIAL AVENUE, SUITE 180  
LEXINGTON, KENTUCKY 40511  
PHONE: 859-425-2255  
859-425-2400


UNIVERSITY OF KENTUCKY PHYSICAL PLANT DIVISION  
225 PETERSON SERVICE BUILDING  
LEXINGTON, KENTUCKY 40506  
PHONE: 859-257-5929

- WATER
- SEWER
- STORM
- POWER
- COMMUNICATION

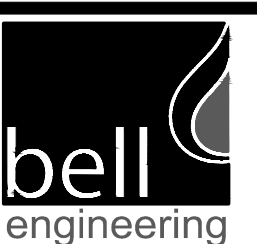
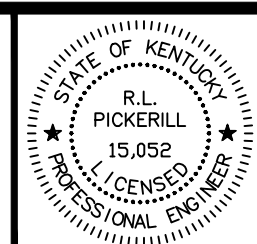
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APPROVED	RLP			

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SCALE:	NONE

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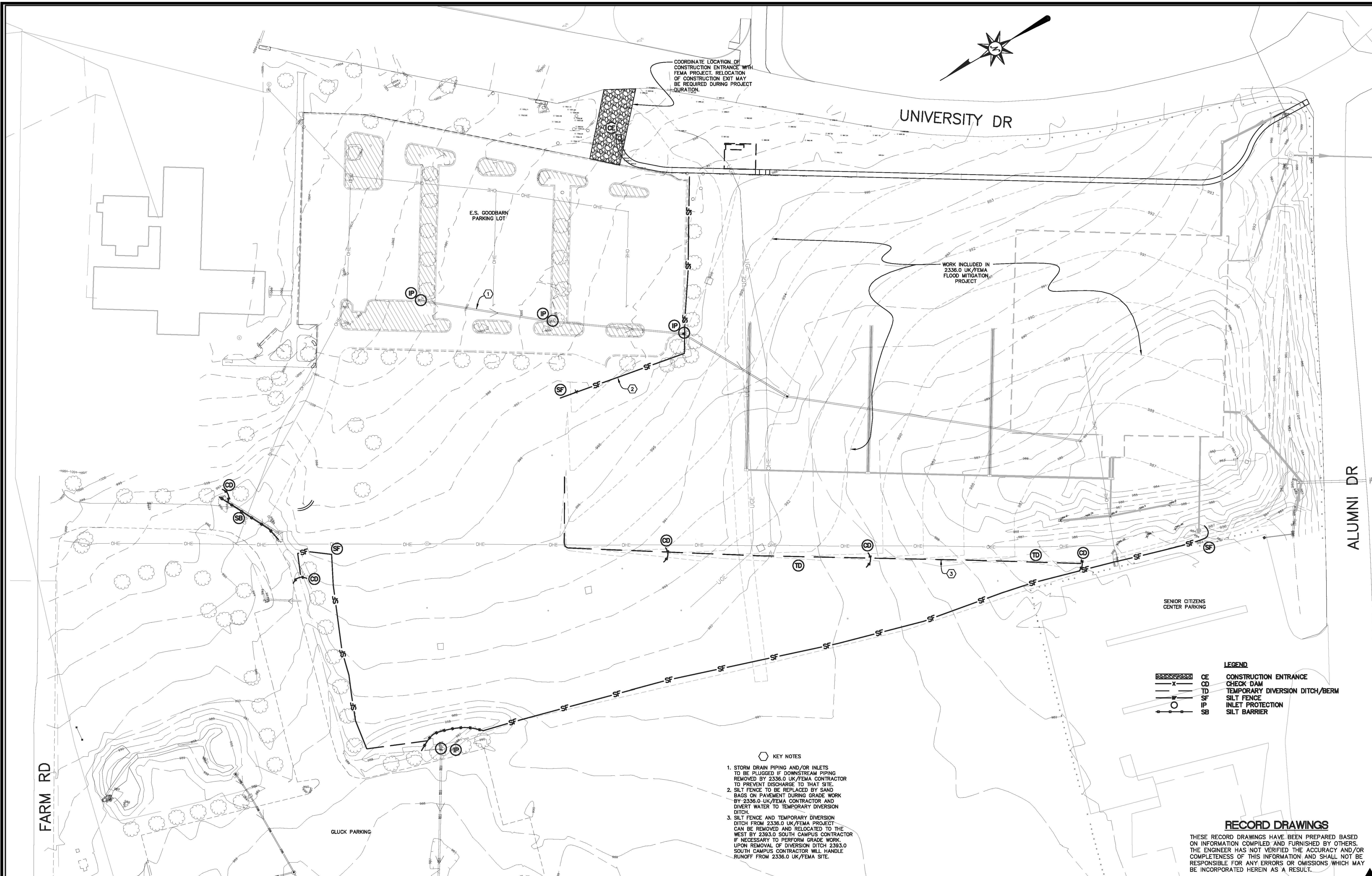


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UNIVERSITY OF KENTUCKY  
LEXINGTON, KENTUCKY

INDEX OF DRAWINGS,  
LEGEND & GENERAL NOTES

DIVISION	GENERAL
CONTRACT NO.	600-037
DATE	APRIL 2014
SHEET NO.	G02



COORDINATE LOCATION OF CONSTRUCTION ENTRANCE WITH FEMA PROJECT. RELOCATION OF CONSTRUCTION EXIT MAY BE REQUIRED DURING PROJECT DURATION.

UNIVERSITY DR

E.S. GOODBARN PARKING LOT

WORK INCLUDED IN 2336.0 UK/FEMA FLOOD MITIGATION PROJECT

ALUMNI DR

SENIOR CITIZENS CENTER PARKING

GLUCK PARKING

FARM RD

**LEGEND**

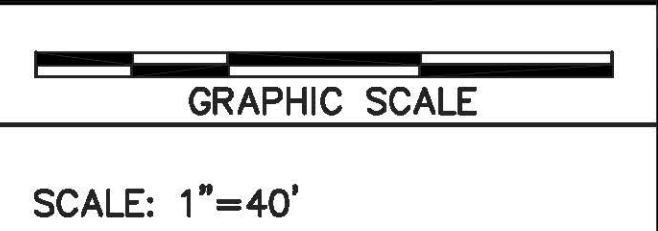
	CE	CONSTRUCTION ENTRANCE
	CD	CHECK DAM
	TD	TEMPORARY DIVERSION DITCH/BERM
	SF	SILT FENCE
	IP	INLET PROTECTION
	SB	SILT BARRIER

- KEY NOTES**
1. STORM DRAIN PIPING AND/OR INLETS TO BE PLUGGED IF DOWNSTREAM PIPING REMOVED BY 2336.0 UK/FEMA CONTRACTOR TO PREVENT DISCHARGE TO THAT SITE.
  2. SILT FENCE TO BE REPLACED BY SAND BAGS ON PAVEMENT DURING GRADE WORK BY 2336.0 UK/FEMA CONTRACTOR AND DIVERT WATER TO TEMPORARY DIVERSION DITCH.
  3. SILT FENCE AND TEMPORARY DIVERSION DITCH FROM 2336.0 UK/FEMA PROJECT CAN BE REMOVED AND RELOCATED TO THE WEST BY 2393.0 SOUTH CAMPUS CONTRACTOR IF NECESSARY TO PERFORM GRADE WORK. UPON REMOVAL OF DIVERSION DITCH 2393.0 SOUTH CAMPUS CONTRACTOR WILL HANDLE RUNOFF FROM 2336.0 UK/FEMA SITE.

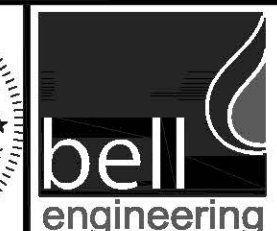
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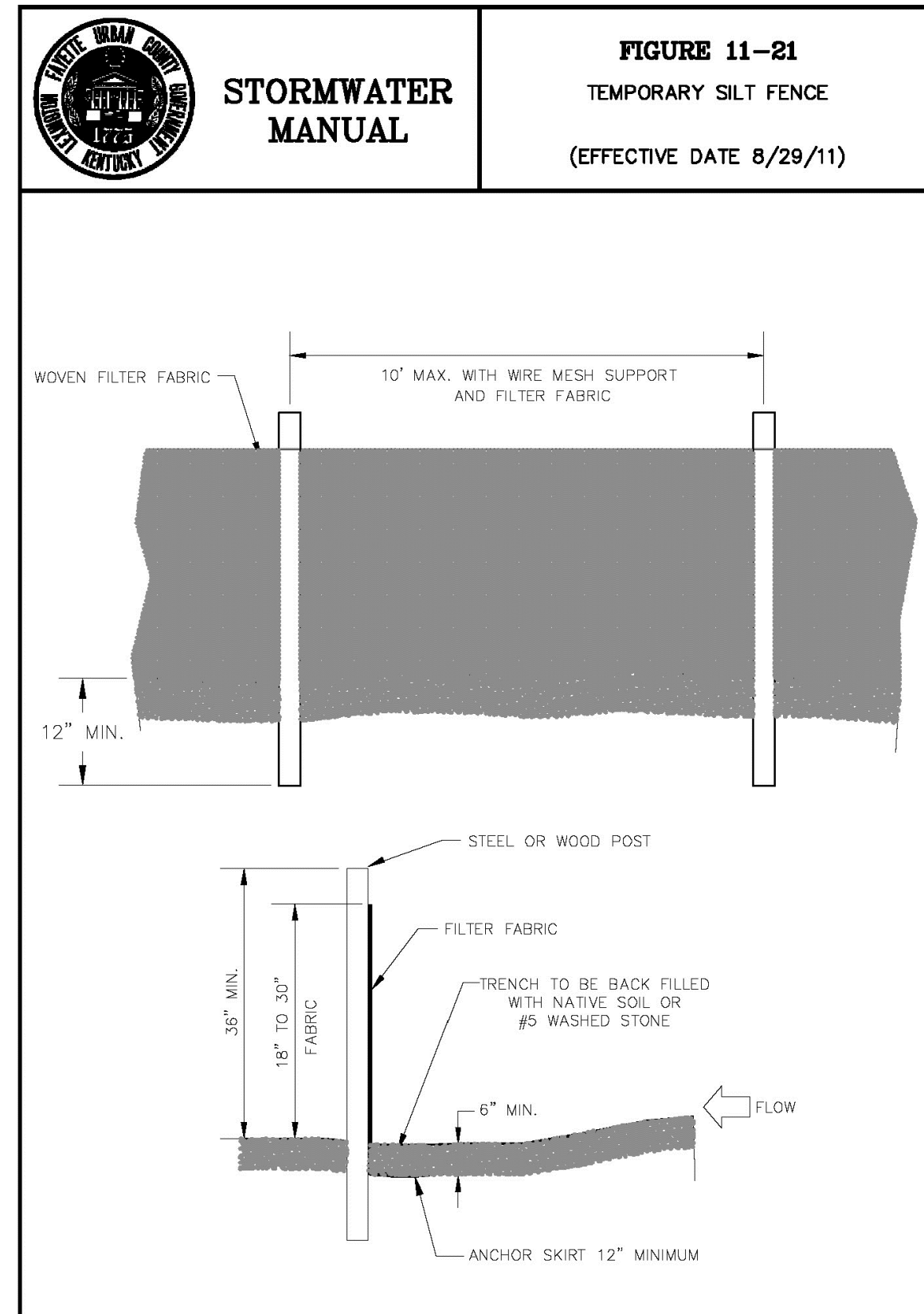
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LEXINGTON, KENTUCKY

**EROSION PREVENTION AND SEDIMENT CONTROL PLAN**

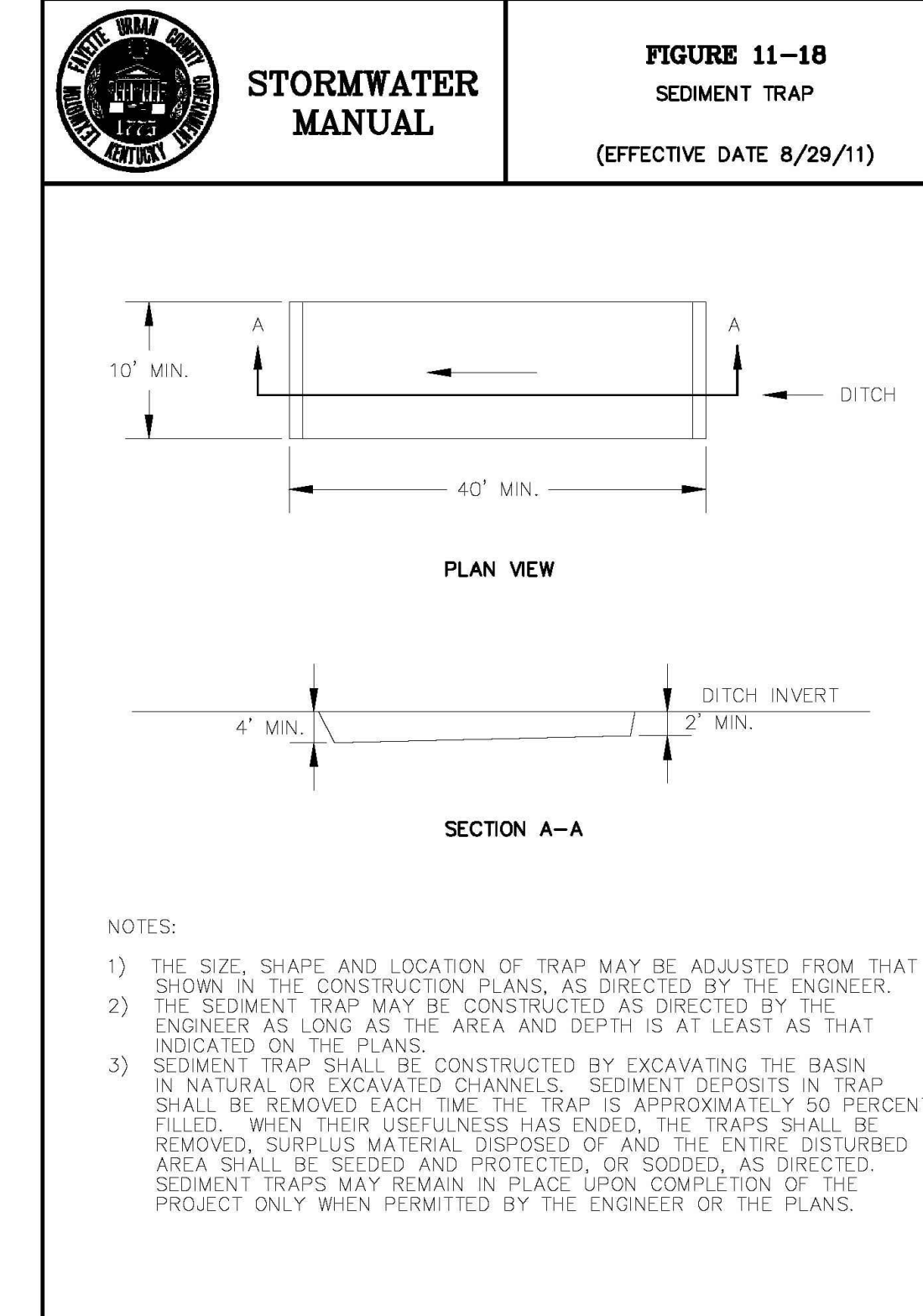
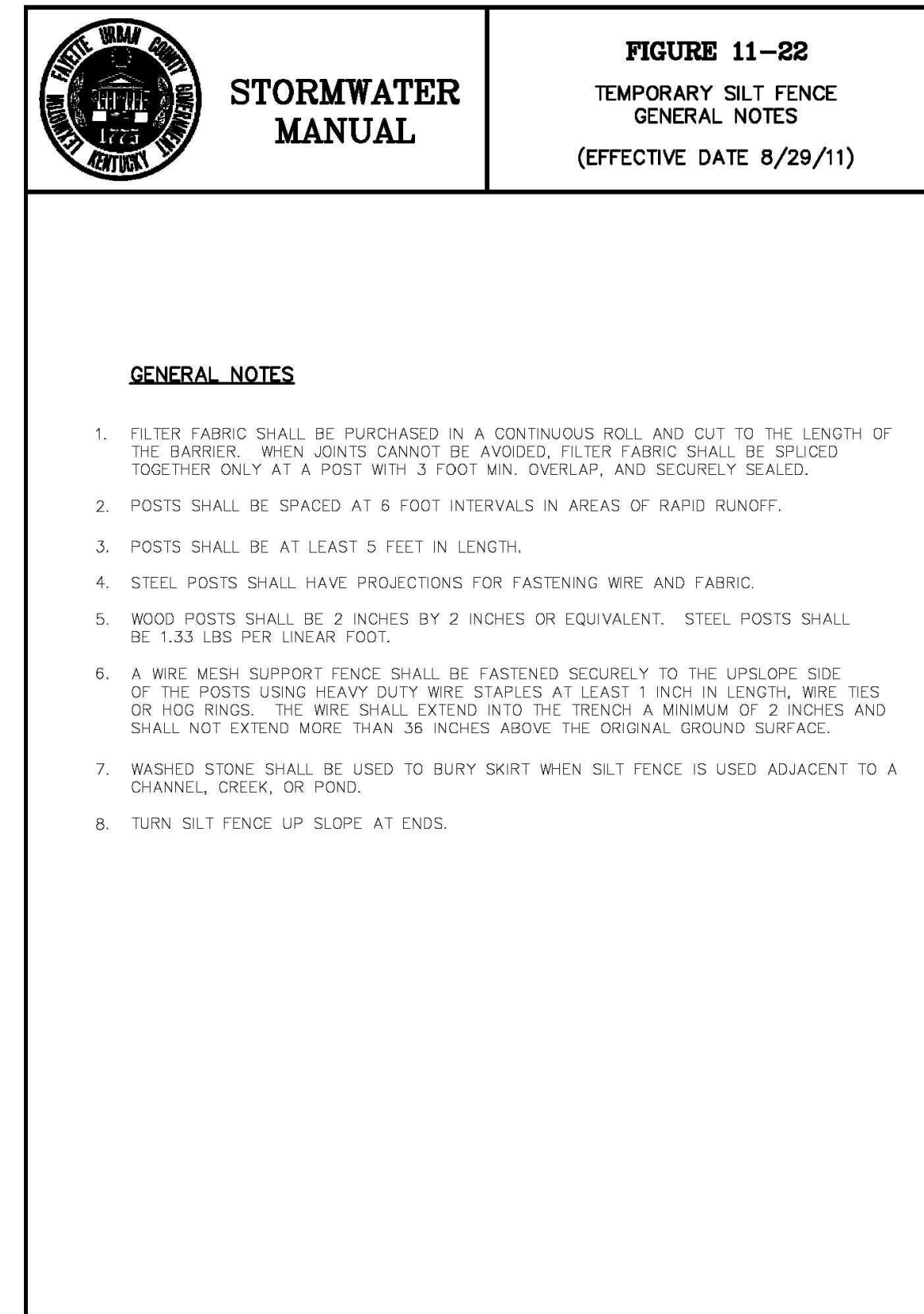
DIVISION	GENERAL
CONTRACT NO.	600-001
DATE	JANUARY 2014
SHEET NO.	C10

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April, 2014

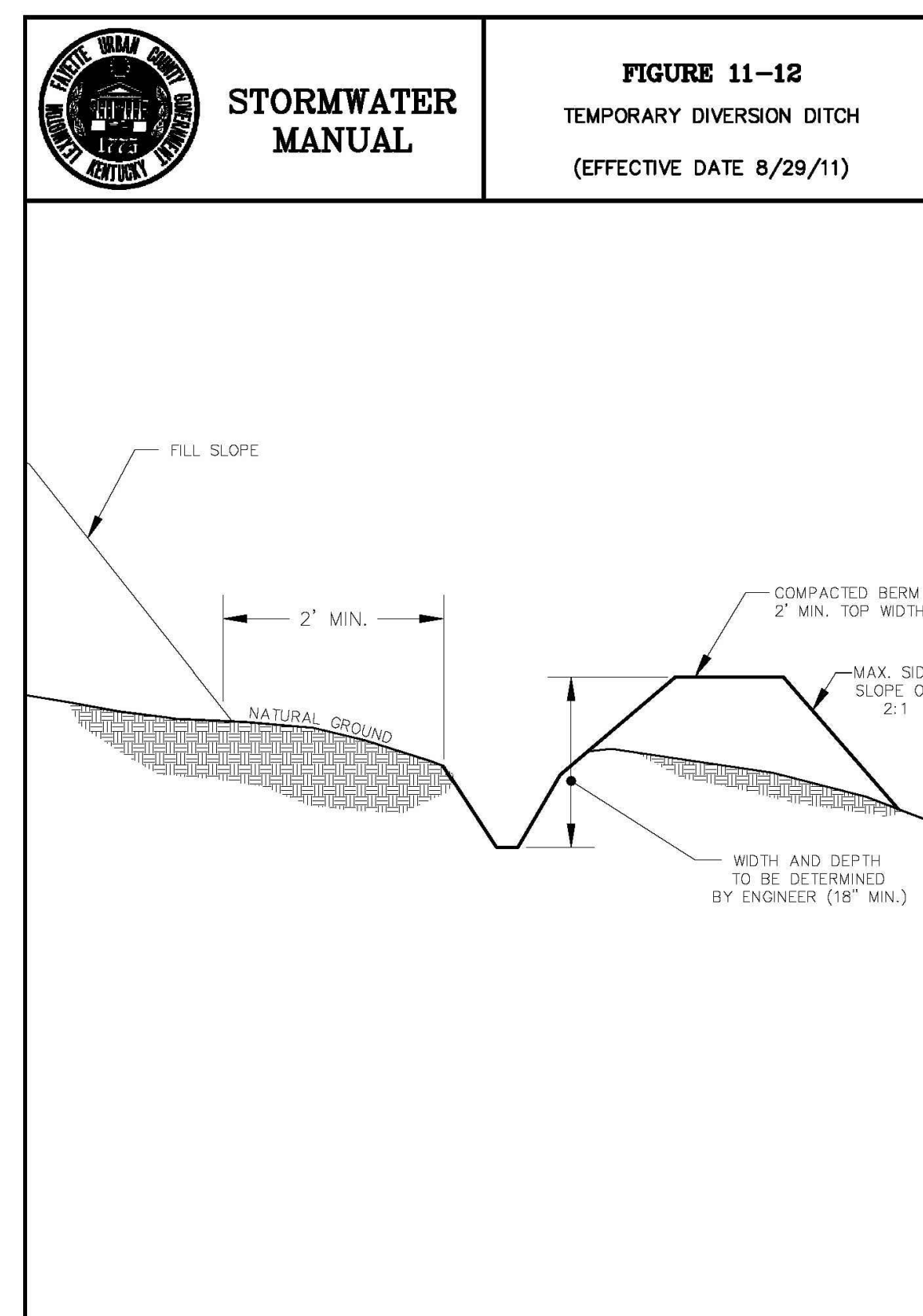


**FIGURE 11-21**  
TEMPORARY SILT FENCE  
(EFFECTIVE DATE 8/29/11)

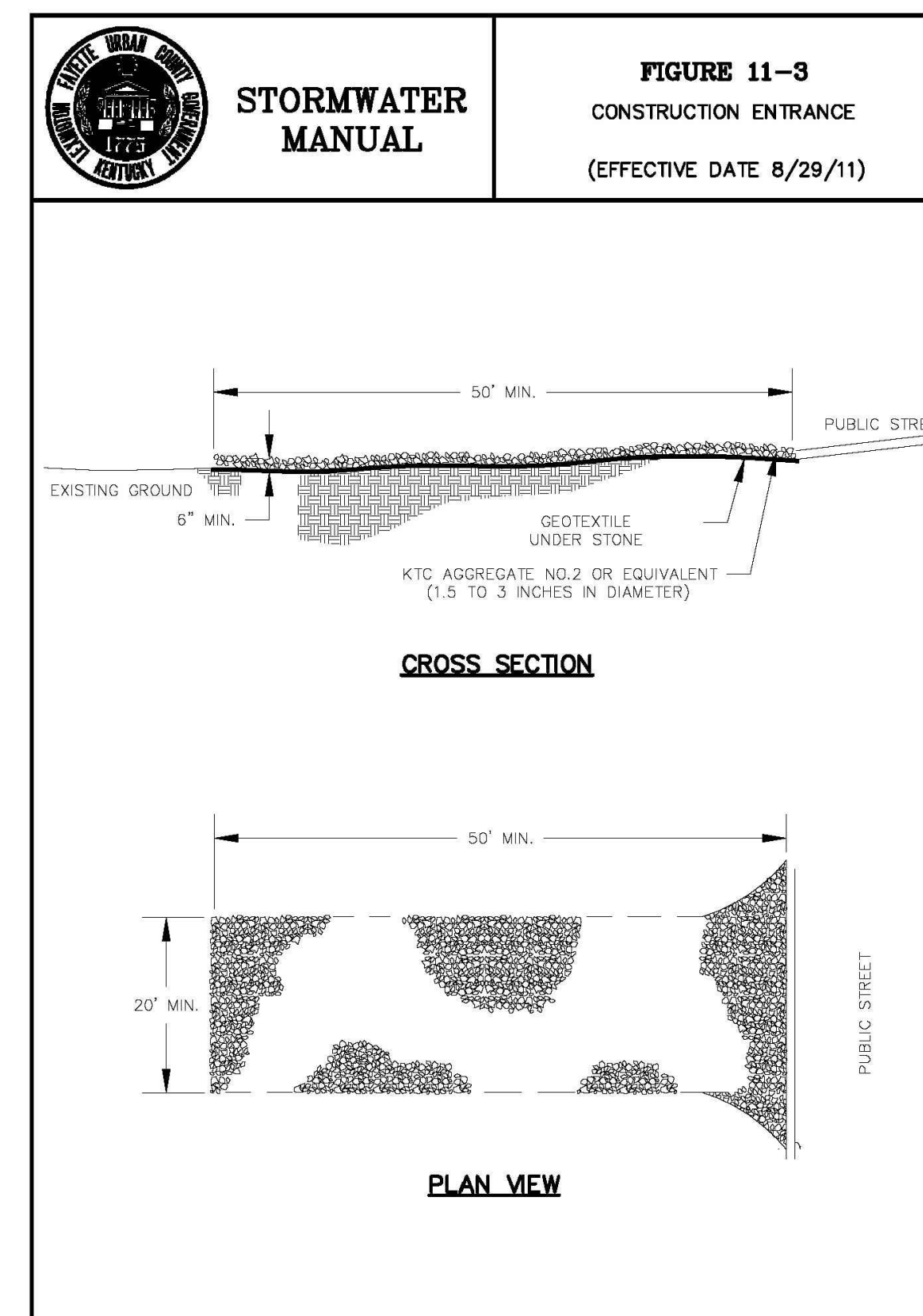


**FIGURE 11-18**  
SEDIMENT TRAP  
(EFFECTIVE DATE 8/29/11)

- 1) Contractor shall prepare as a part of his construction scheduling plan an Erosion & Sediment Control plan. This plan shall indicate means of controlling erosion and sediment due to construction activities throughout the entire project. Guidance for preparing this document may be found in LFUG Stormwater Manual, Chapter 11, and herein. Directives noted in these Plans and Specifications are not intended to dictate construction schedule. They are provided for Contractor's information and to illustrate how the project components are interrelated. Note that many erosion / sediment control BMPs require periodic inspection & maintenance. The Contractor is responsible for maintaining these BMPs throughout the course of the project. Because of the relationship between construction scheduling and erosion / sediment control, this Plan must be developed by the Contractor. This Plan will be submitted for review and approval by the Engineer, who will review for conformance with necessary erosion / sediment control performance. General requirements of the Erosion & Sediment Control Plan include the following:
  - a. Control runoff around the construction sites, such that the effects of disturbing the ground surface are minimized on site and downstream.
  - b. Construction is to be sequenced such that erosion and sediment transport is controlled. Some measures of diverting flow around disturbed areas to reduce erosion and sedimentation. They shall be designed for the 10-year, 24-hour storm. They may be parabolic or trapezoidal in shape. V-shape ditches will not be allowed. The outlets of Temporary Diversion Ditches must be stabilized. Contractor is responsible for periodically cleaning ditches when sediment capacity has been depleted.
- 2) Temporary Diversion Ditches are earthen ditches, with life expectancy of one year or less. They are used to divert flow around disturbed areas to reduce erosion and sedimentation. They shall be designed for the 10-year, 24-hour storm. They may be parabolic or trapezoidal in shape. V-shape ditches will not be allowed. The outlets of Temporary Diversion Ditches must be stabilized. Contractor is responsible for periodically cleaning ditches when sediment capacity has been depleted.
- 3) Silt Fencing is to be installed to protect areas downstream from construction and must be installed prior to disturbance in an area. They may be removed once all of the disturbed areas lying upstream have been stabilized. Details are included herein for the construction of silt fences. Contractor is responsible for periodic inspection and ensuring that they are in good working order throughout the project. Where silt control is required along pavement areas, use sand bag Silt Barriers when Silt Fencing cannot be used.
- 4) Stabilized construction entrances are required at all points of access for construction activity. They are to be placed in order to minimize disturbance for drivers and residents near the construction site. Construction entrances are required wherever vehicles are leaving a construction site and enter onto a public road and at any unpaved entrance/exit location where there is risk of transporting mud or sediment onto paved roads. They are to be constructed of a minimum of 6" thickness of #2 crushed stone laid over KYTC Type III filter fabric. They are to be at least 20 feet long and as wide as the entire width of the access. The entrance shall be inspected weekly and after there has been a high volume of traffic or a storm event greater than 0.2 inches. The entrance shall be maintained to prevent sediments being deposited onto public rights-of-way, which may require periodic top dressing with additional stone, or other measures, as-needed.
- 5) Erosion control blankets shall be used on recently planted slopes to protect seedlings until they become established. Acceptable products include mulch netting and erosion control matting. In all cases, the Contractor shall perform periodic inspection to ensure proper performance & shall complete any necessary repairs. LFUG Figures 11-1, 5, 6 & 7 provide guidance for using erosion control matting on slopes.
- 6) Concrete washout pits shall be constructed to minimize the discharge of pollutants into streams. They shall be sized approximately 20' x 20' x 5' and provided in sufficient quantities according to concrete placement within an area. They are to be maintained in good working order by the Contractor throughout the project and be cleaned when they reach approximately 75% of their volume.
- 7) Inlet protection shall be provided at all storm drain inlets. The purpose of the inlet protection is to prevent sediment from entering storm drainage systems prior to permanent stabilization of the disturbed area. They shall be constructed in a manner that will facilitate cleanout and disposal of trapped sediment and minimize interference with construction activities. LFUG Figures 11-23 and 24 provide guidance for constructing inlet filters.
- 8) Check dams are small temporary dams constructed across a swale or drainage ditch. They are used to reduce the velocity of concentrated stormwater flows in order to reduce its erosion. The check dam will also trap small amounts of sediment, but is not considered as a sediment-trapping practice. Their use is limited to small, open channels that drain 5 acres or less. Check dams may be constructed of stones with filter fabric or sand bag filters and are limited in height to two feet.



**FIGURE 11-12**  
TEMPORARY DIVERSION DITCH  
(EFFECTIVE DATE 8/29/11)



**FIGURE 11-3**  
CONSTRUCTION ENTRANCE  
(EFFECTIVE DATE 8/29/11)

**FIGURE 11-4**  
CONSTRUCTION ENTRANCE  
NOTES AND SPECIFICATIONS  
(EFFECTIVE DATE 8/29/11)

**SPECIFICATIONS FOR GEOTEXTILE FABRIC**

GRAB TENSILE STRENGTH	220 LBS. (MIN.) (ASTM D1682)
ELONGATION FAILURE	60% (MIN.) (ASTM D1682)
MULLEN BURST STRENGTH	430 LBS. (MIN.) (ASTM D3768)
PUNCTURE STRENGTH	125 LBS. (MIN.) (ASTM D751) (MODIFIED)
EQUIVALENT OPENING	SIZE 40-80 (US STD SIEVE) (GW-02215)

**NOTES**

1. A STABILIZED ENTRANCE PAD OF CRUSHED STONE SHALL BE LOCATED WHERE TRAFFIC WILL ENTER OR LEAVE THE CONSTRUCTION SITE ONTO A PUBLIC STREET.
2. SOIL STABILIZATION FABRIC SHALL BE USED AS A BASE FOR THE CONSTRUCTION ENTRANCE.
3. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC STREETS OR EXISTING PAVEMENT. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS WARRANT AND REPAIR OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT.
4. ANY SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC STREETS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
5. WHEN APPROPRIATE, WHEELS MUST BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTERING A PUBLIC STREET. WHEN WASHING IS REQUIRED, IT SHALL BE DONE IN AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT BASIN.

**RECORD DRAWINGS**

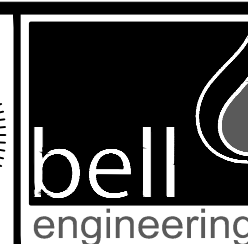
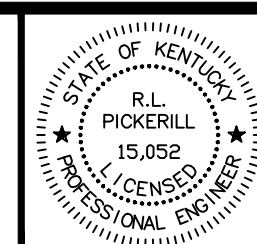
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GRAPHIC SCALE

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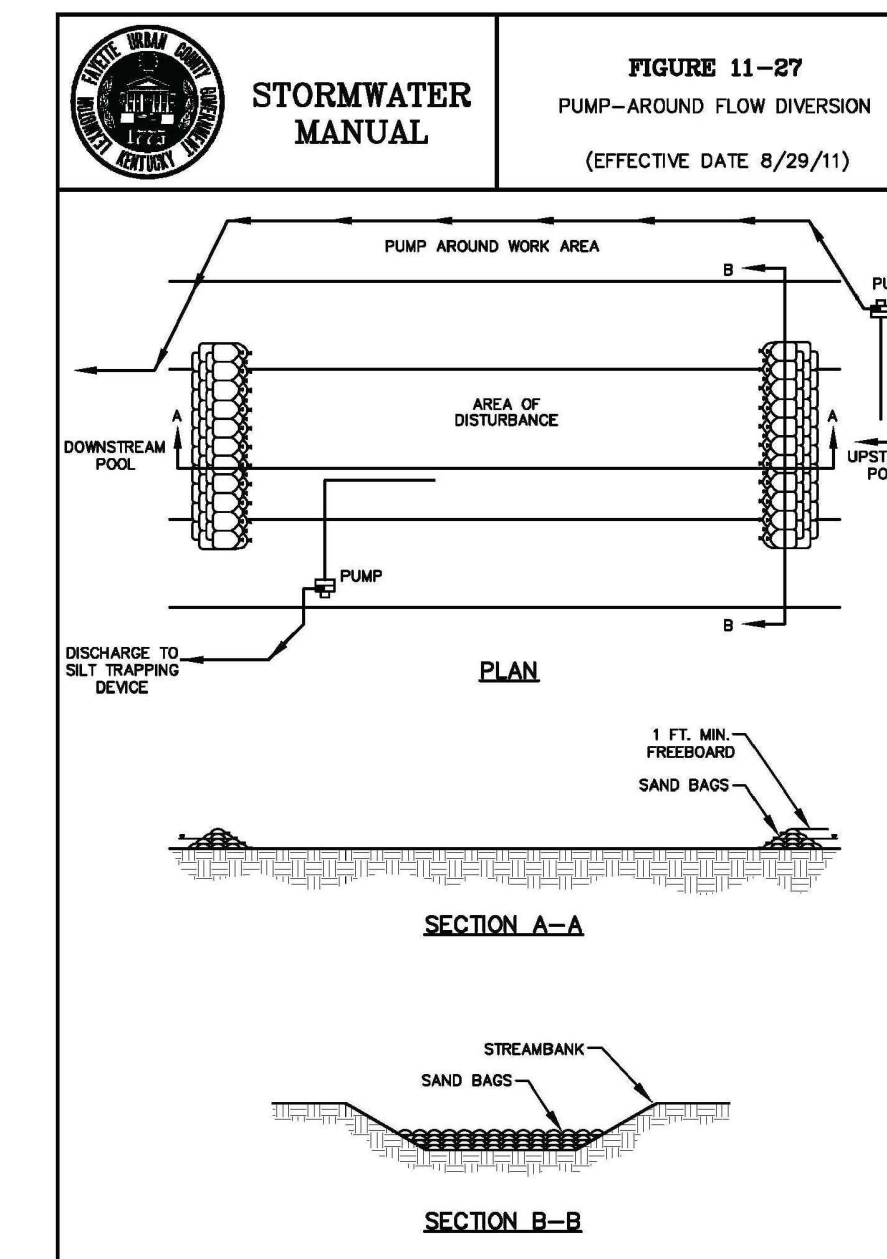
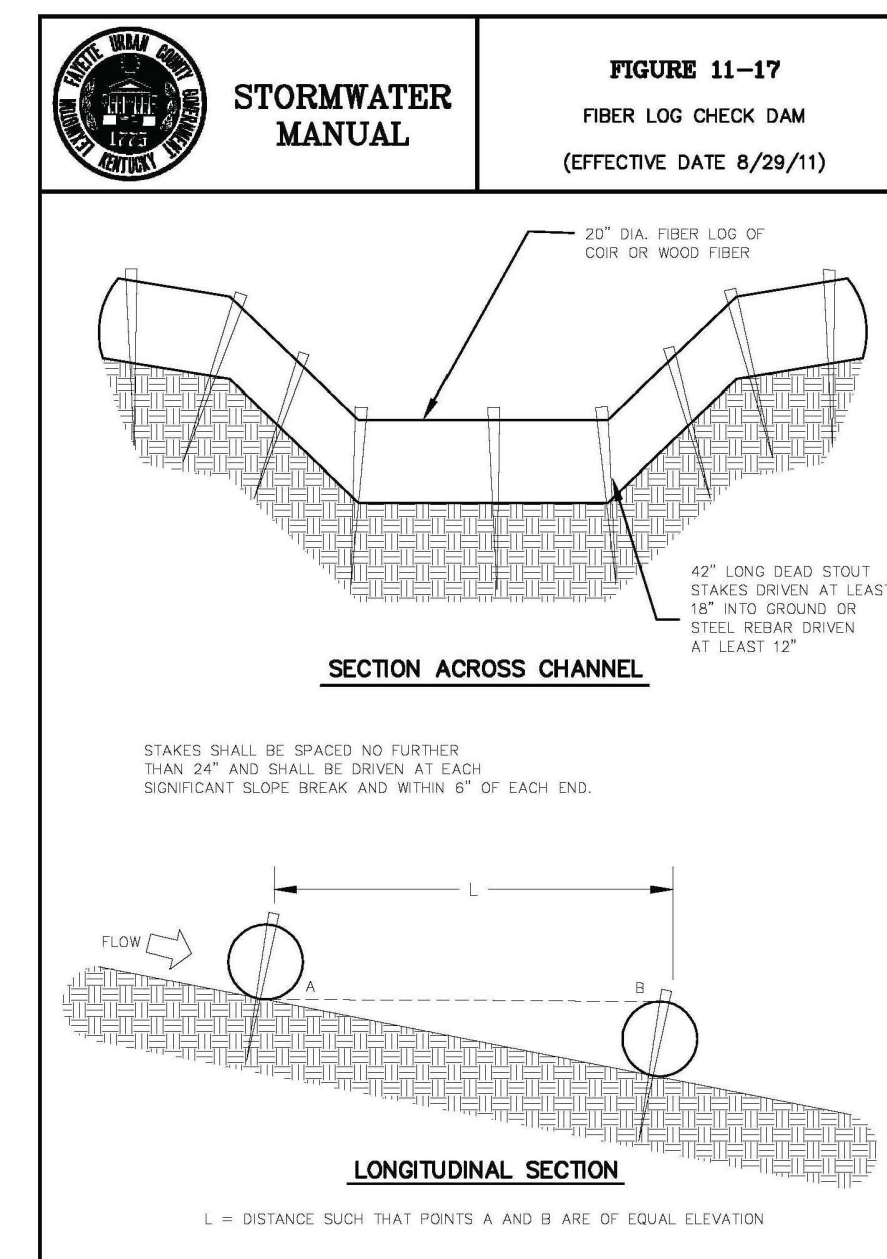
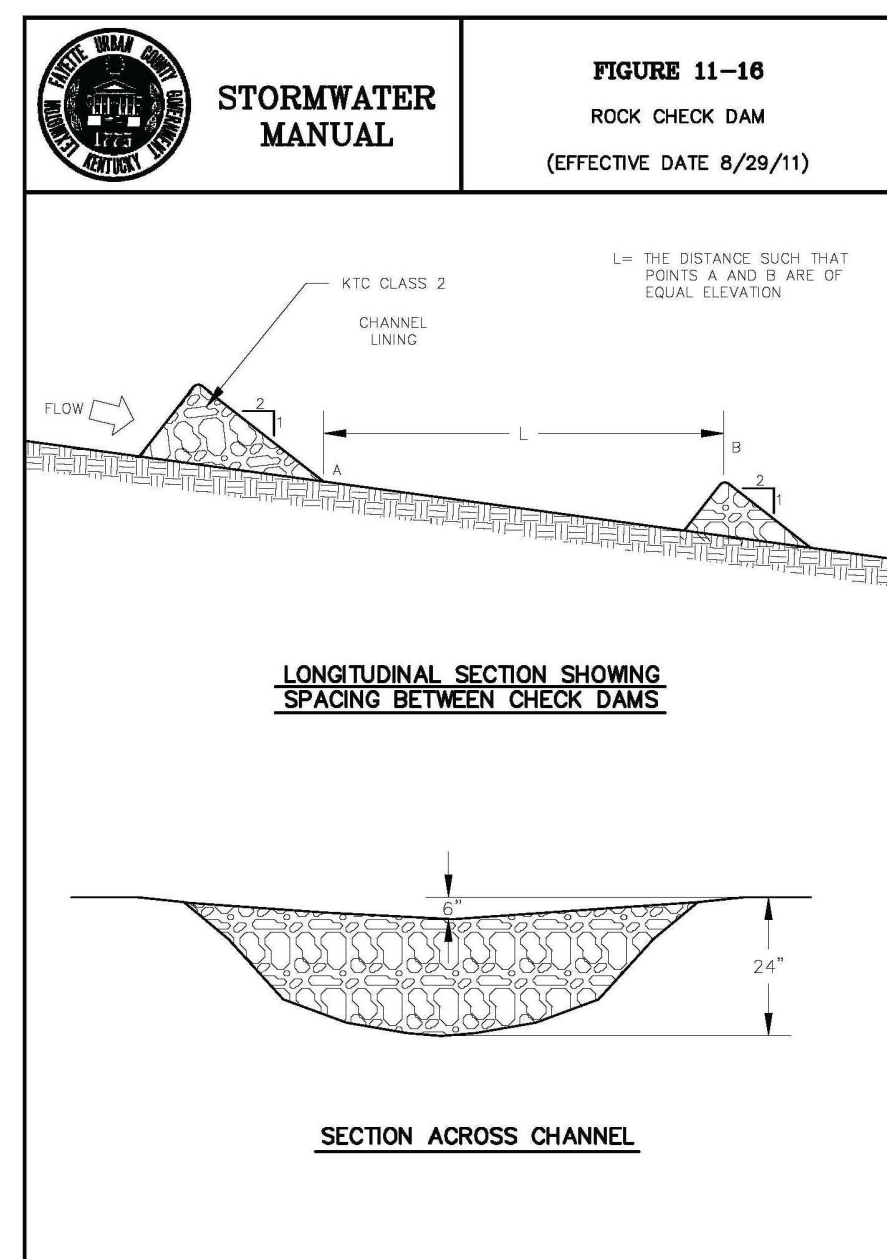
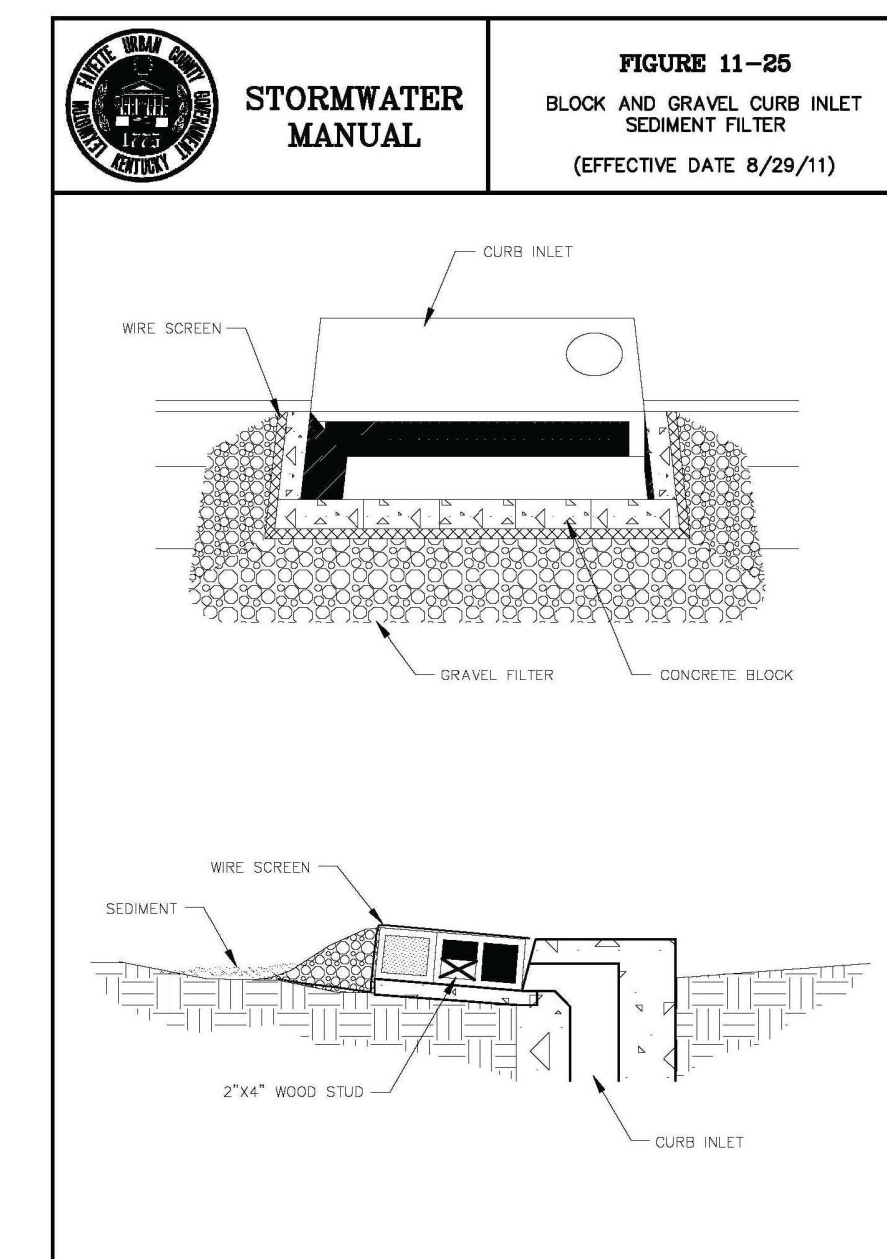
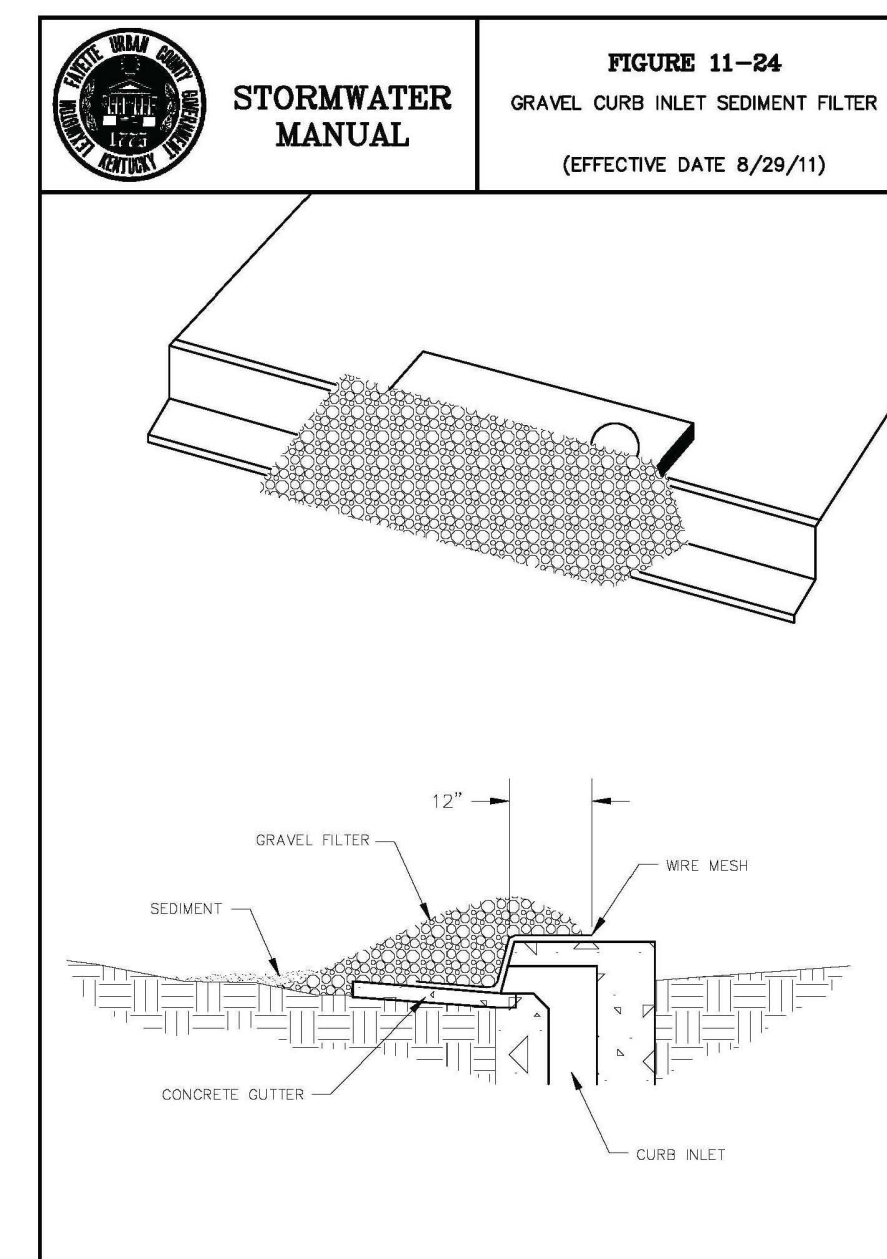
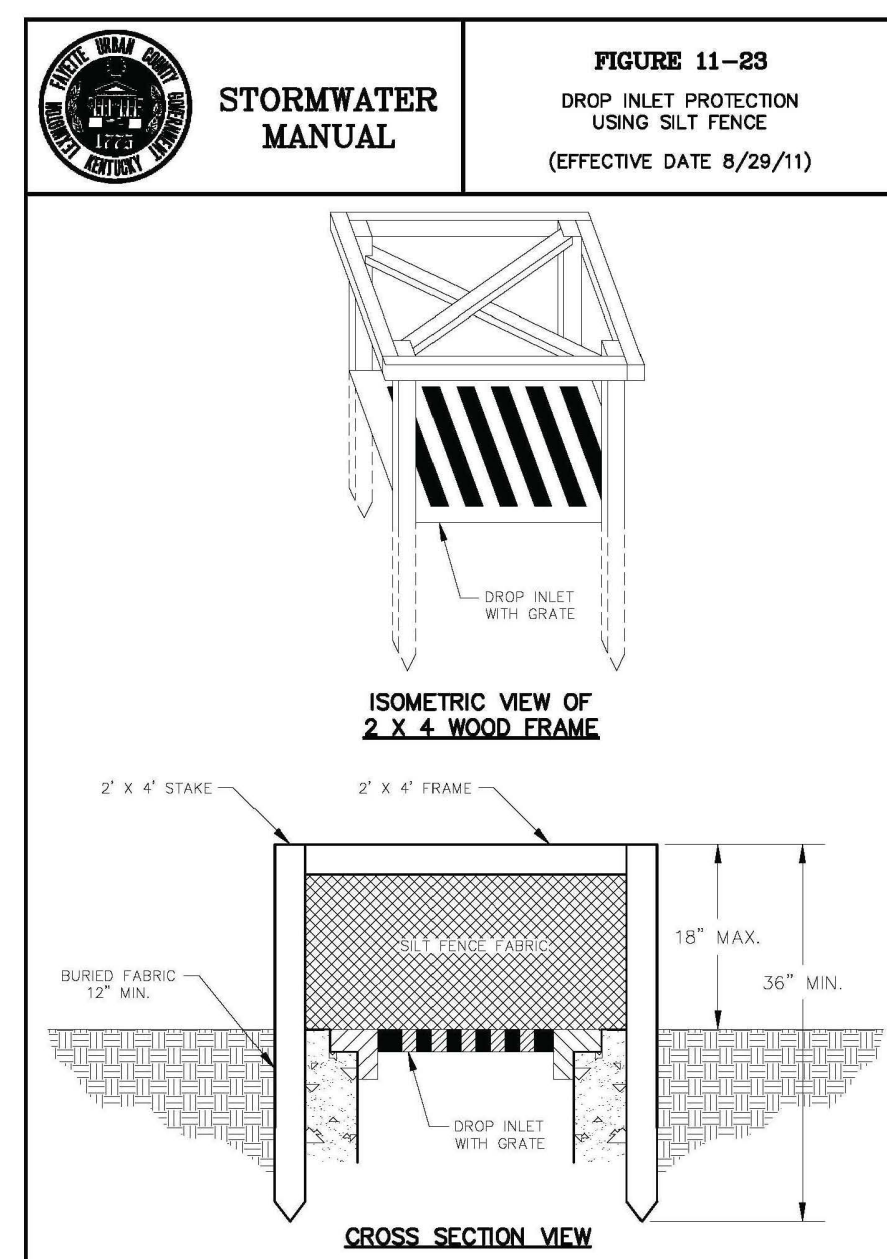
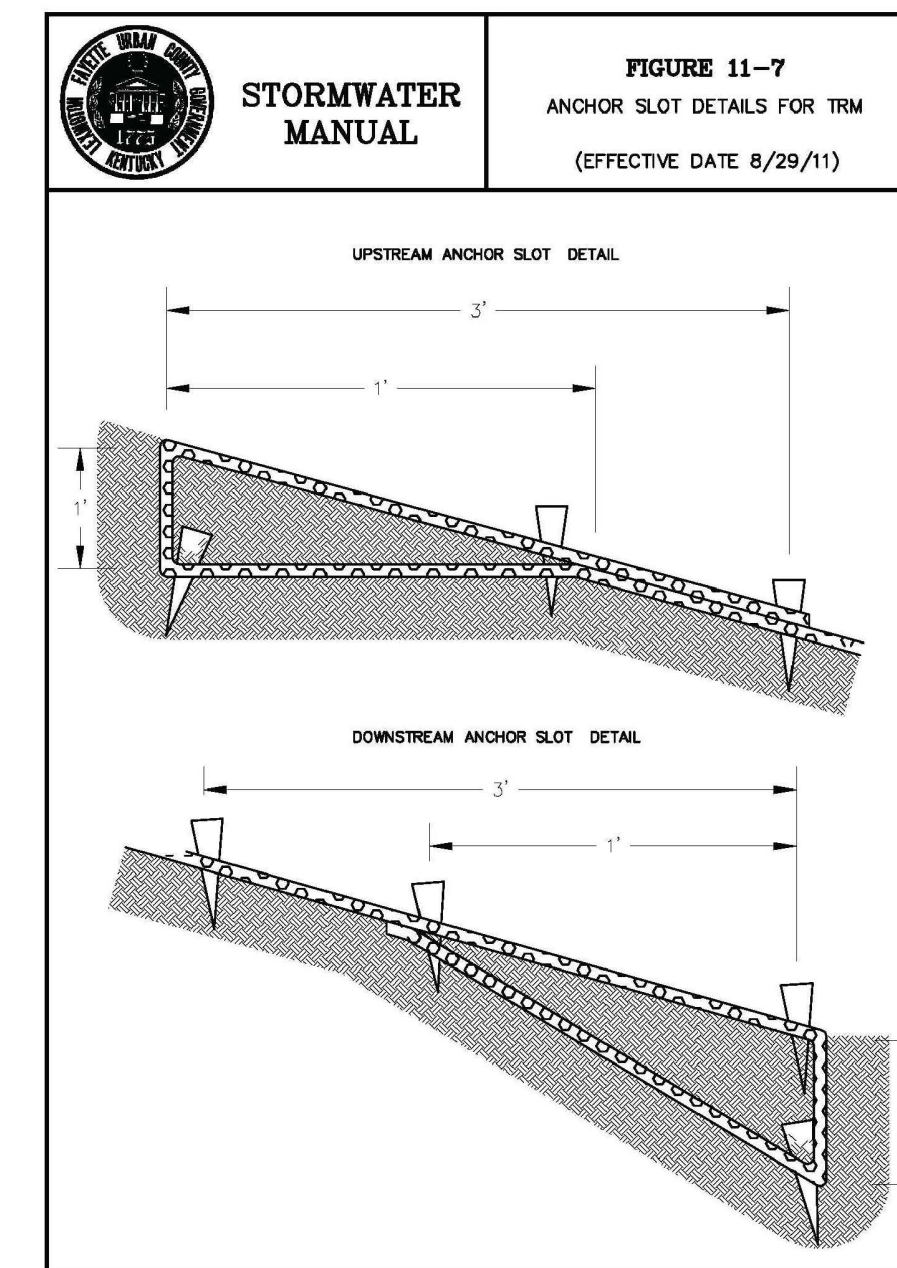
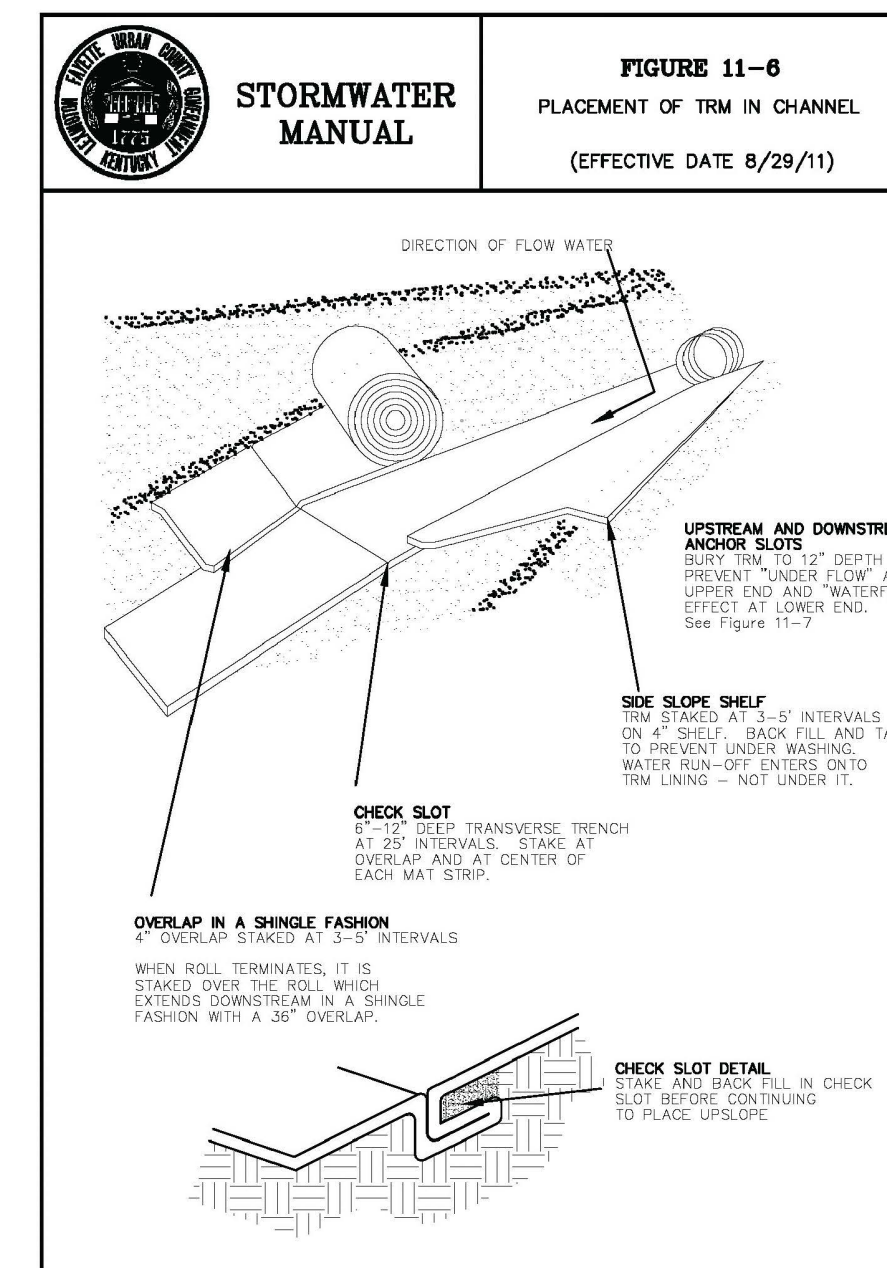
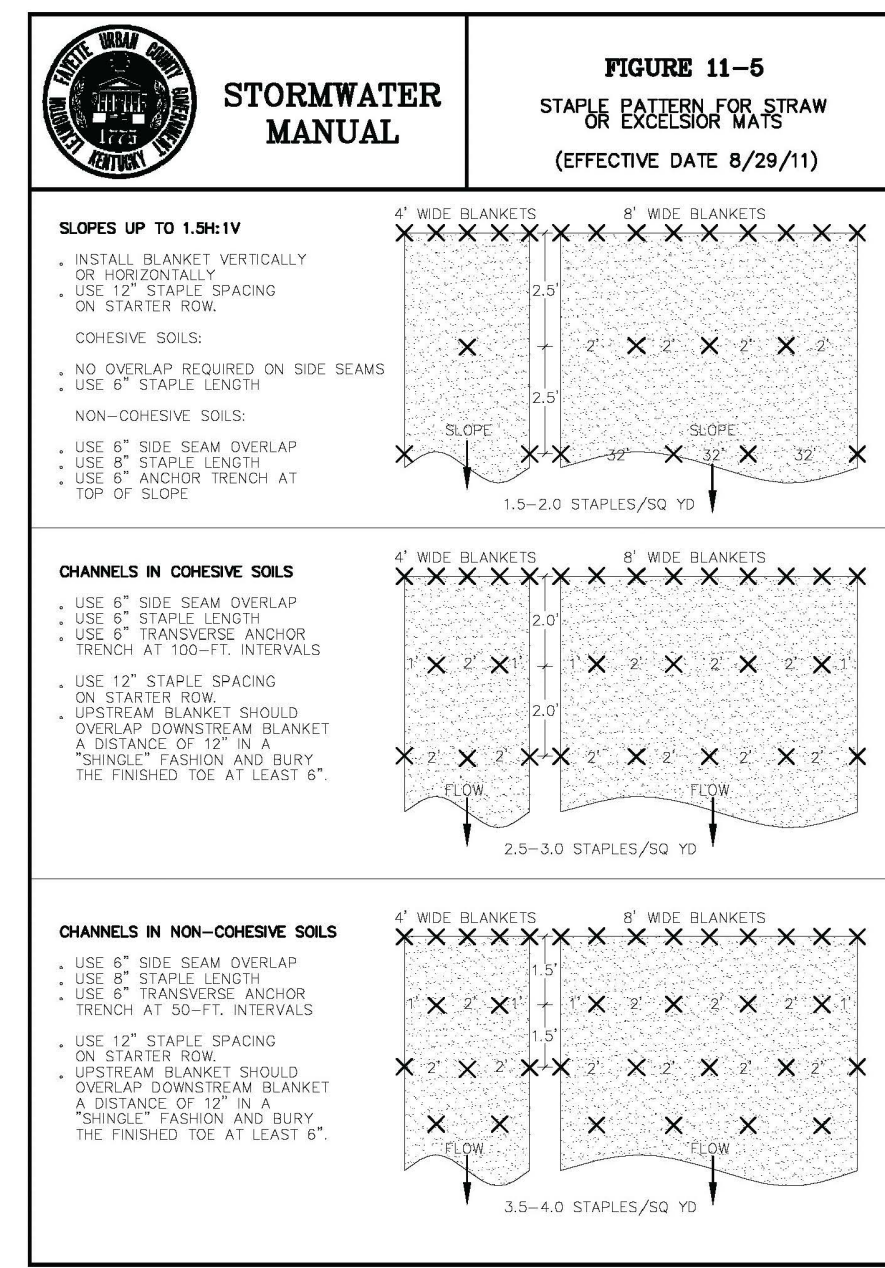
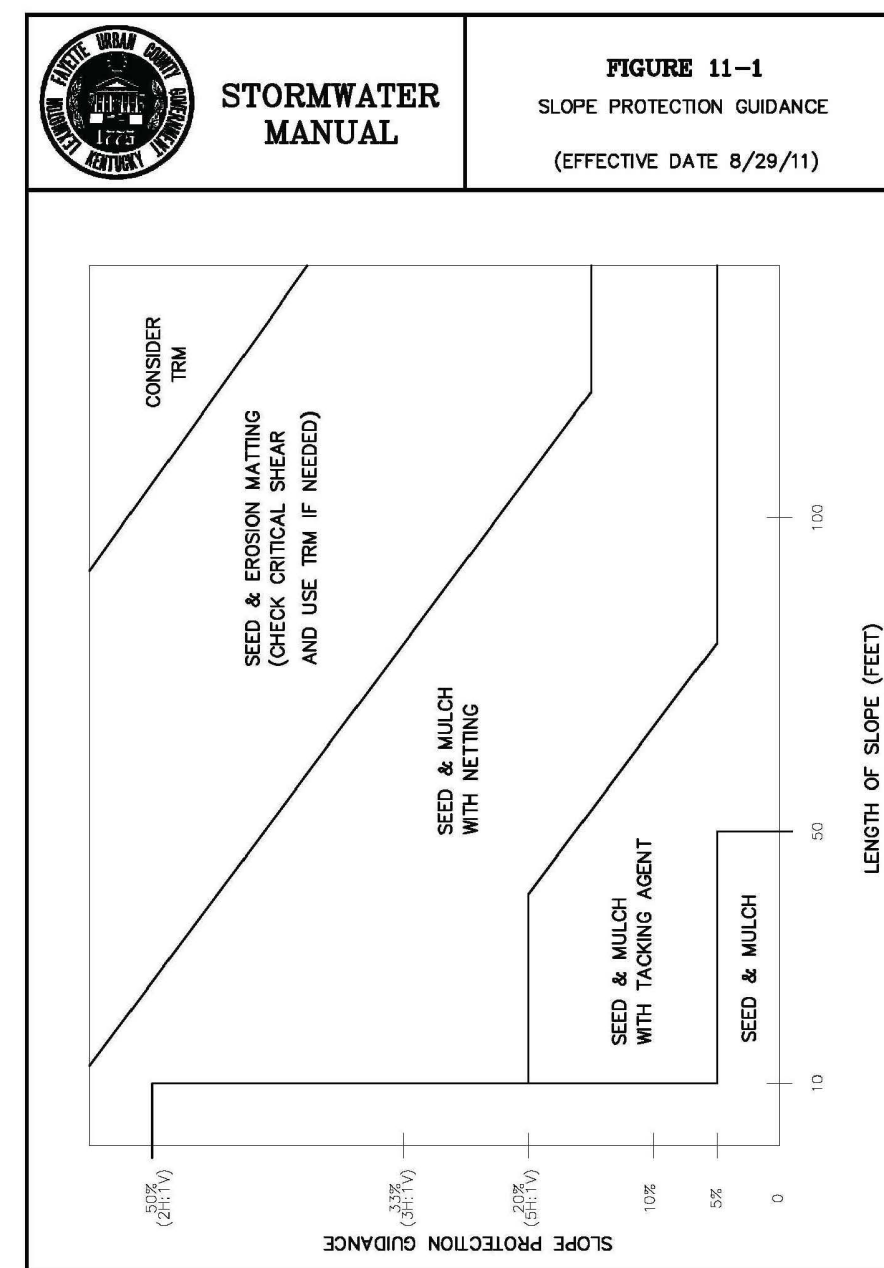


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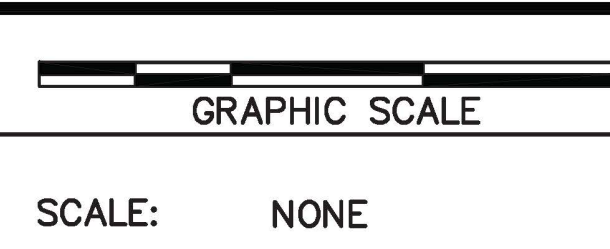
EROSION & SEDIMENT CONTROL  
STANDARD DETAILS

DIVISION	GENERAL
CONTRACT NO.	600-037
DATE	APRIL 2014
SHEET NO.	C11

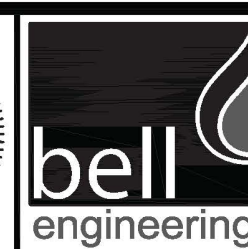
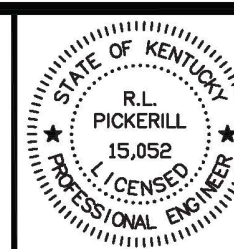


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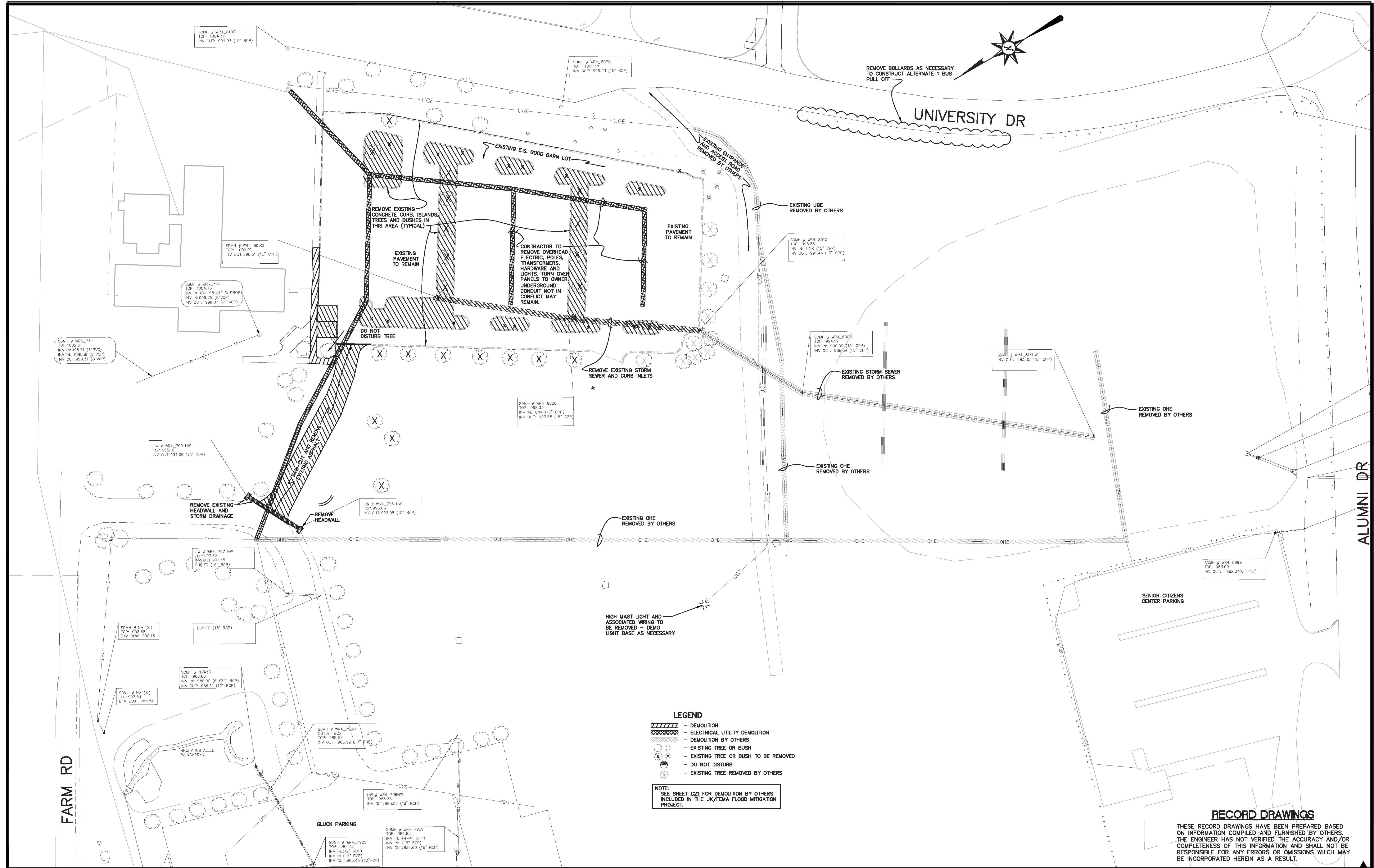


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 CAPITAL PROJECT MANAGEMENT DIVISION  
 UNIVERSITY OF KENTUCKY  
 LEXINGTON, KENTUCKY

EROSION & SEDIMENT CONTROL  
 MISCELLANEOUS DETAILS

DIVISION	GENERAL
CONTRACT NO.	600-037
DATE	APRIL 2014
SHEET NO.	C12



**LEGEND**

- DEMOLITION
- ELECTRICAL UTILITY DEMOLITION
- DEMOLITION BY OTHERS
- EXISTING TREE OR BUSH
- EXISTING TREE OR BUSH TO BE REMOVED
- DO NOT DISTURB
- EXISTING TREE REMOVED BY OTHERS

**NOTE:**  
SEE SHEET C21 FOR DEMOLITION BY OTHERS INCLUDED IN THE UK/FEMA FLOOD MITIGATION PROJECT.

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CHECKED	JTK			
APPROVED	RLP			

**GRAPHIC SCALE**

SCALE: 1"=40'

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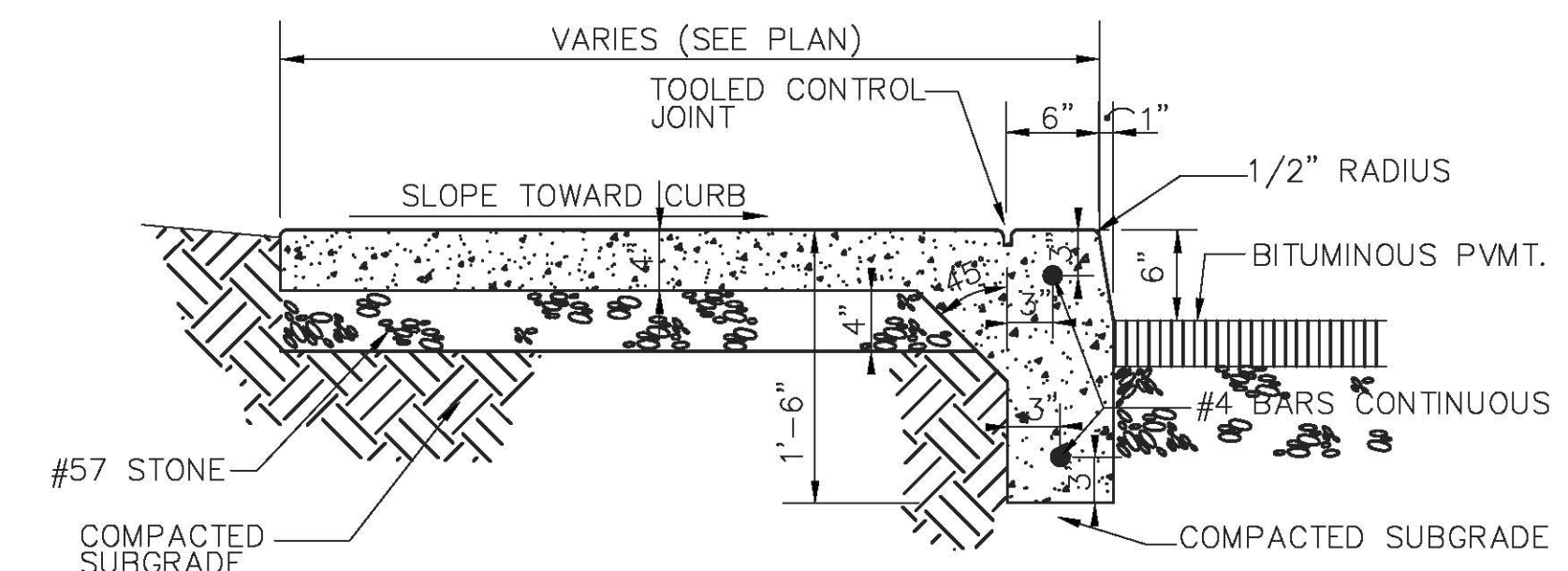
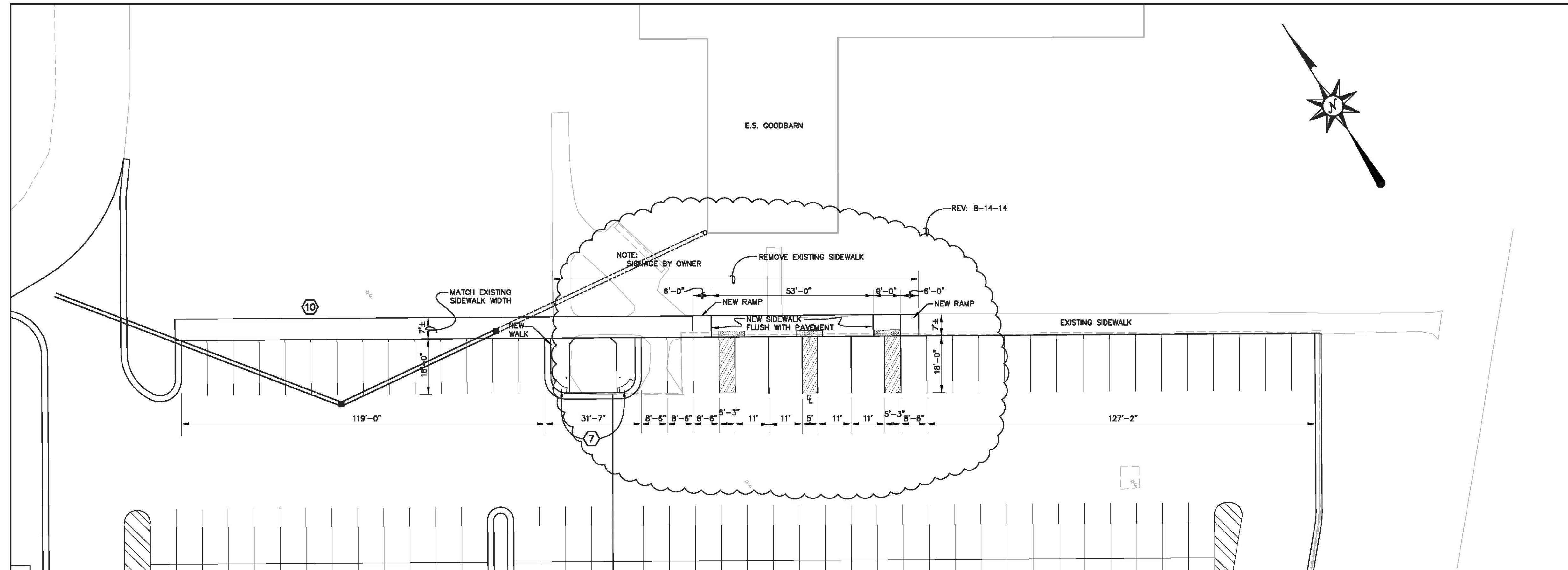
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**DEMOLITION PLAN**

DIVISION	GENERAL
CONTRACT NO.	600-001
DATE	APRIL 2014
SHEET NO.	C20

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NOTE: PROVIDE SAWED CONTRACTION JOINTS IN CURB. ALIGN WITH TOOLED JOINTS IN WALK. PROVIDE EXPANSION JOINTS AS INDICATED ON DRAWINGS.

### WALK WITH INTEGRAL CURB

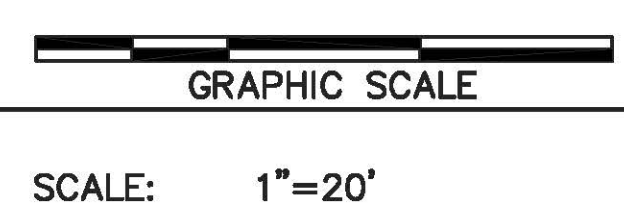
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#### RECORD DRAWINGS

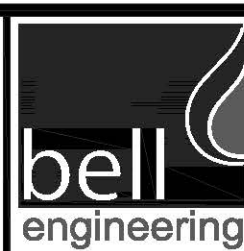
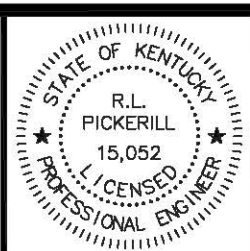
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ADDENDUM NO. 1 ▲

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HANDICAP SIDEWALK/RAMP & PARKING LAYOUT

DIVISION	GENERAL
CONTRACT NO.	600-001
DATE	APRIL 2014
SHEET NO.	C30.1

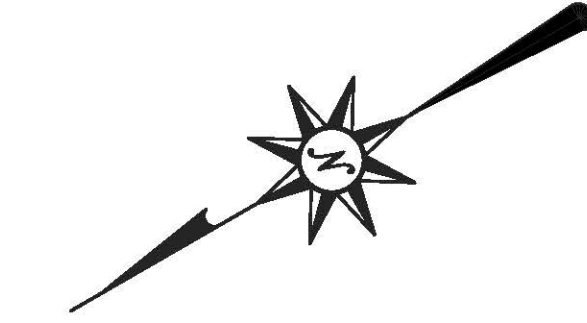
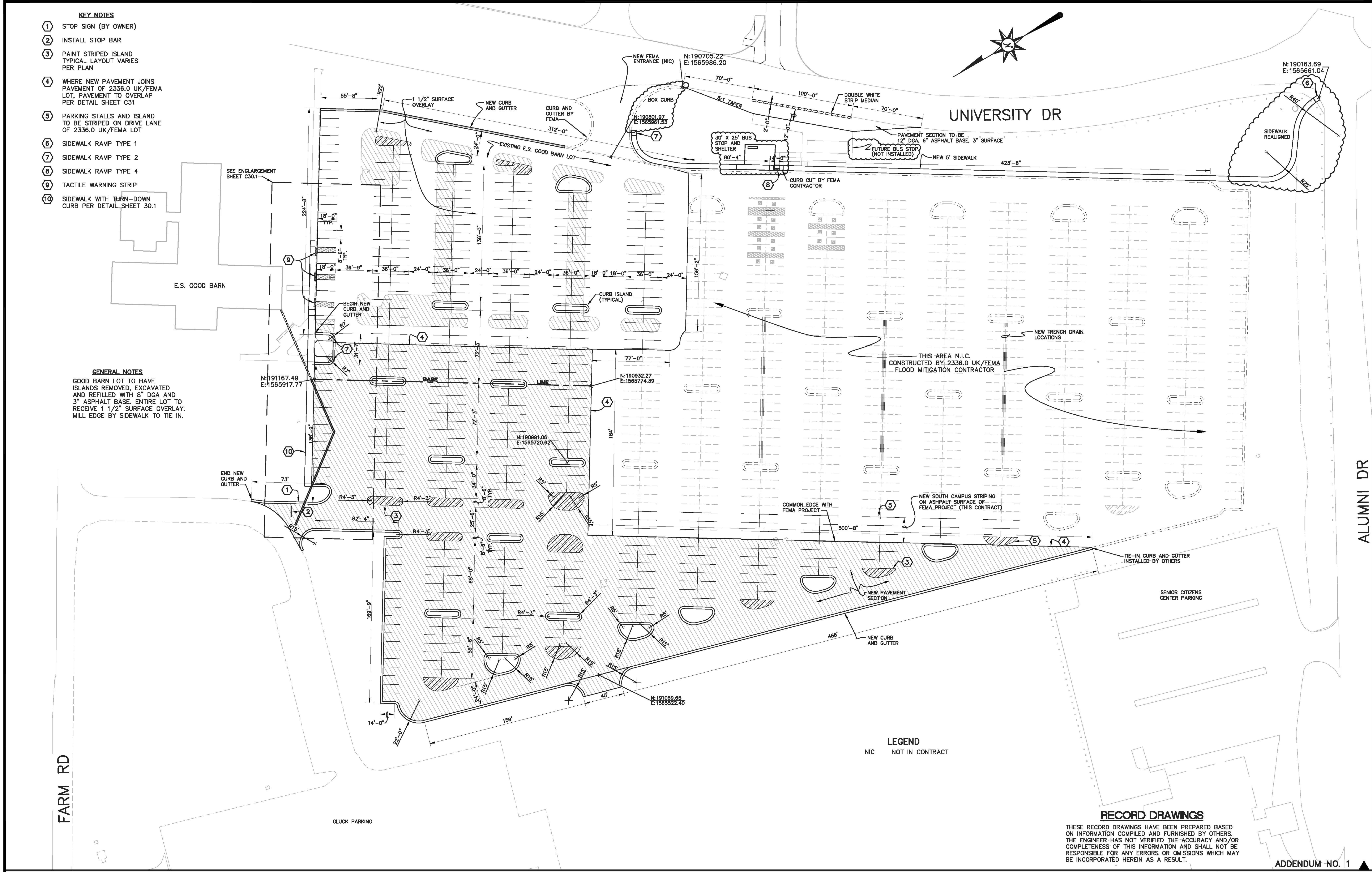
**KEY NOTES**

- 1 STOP SIGN (BY OWNER)
- 2 INSTALL STOP BAR
- 3 PAINT STRIPED ISLAND TYPICAL LAYOUT VARIES PER PLAN
- 4 WHERE NEW PAVEMENT JOINS PAVEMENT OF 2336.0 UK/FEMA LOT, PAVEMENT TO OVERLAP PER DETAIL SHEET C31
- 5 PARKING STALLS AND ISLAND TO BE STRIPED ON DRIVE LANE OF 2336.0 UK/FEMA LOT
- 6 SIDEWALK RAMP TYPE 1
- 7 SIDEWALK RAMP TYPE 2
- 8 SIDEWALK RAMP TYPE 4
- 9 TACTILE WARNING STRIP
- 10 SIDEWALK WITH TURN-DOWN CURB PER DETAIL SHEET 30.1

**GENERAL NOTES**

GOOD BARN LOT TO HAVE ISLANDS REMOVED, EXCAVATED AND REFILLED WITH 8" DGA AND 3" ASPHALT BASE. ENTIRE LOT TO RECEIVE 1 1/2" SURFACE OVERLAY. MILL EDGE BY SIDEWALK TO TIE IN.

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UNIVERSITY DR

ALUMNI DR

FARM RD

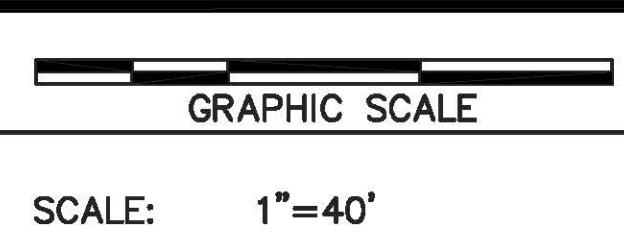
**LEGEND**  
NIC NOT IN CONTRACT

**RECORD DRAWINGS**

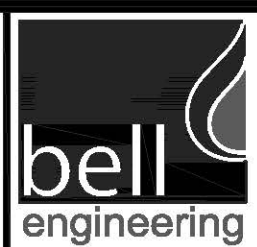
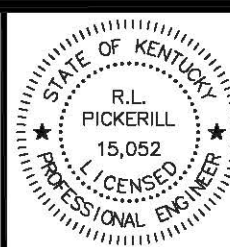
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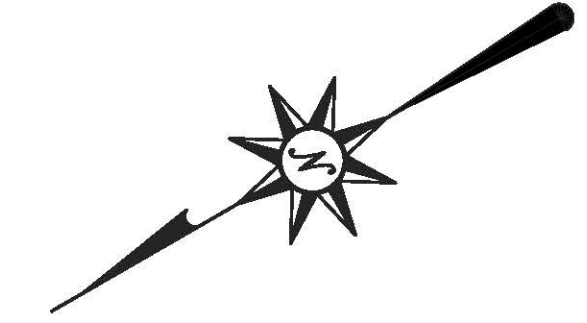
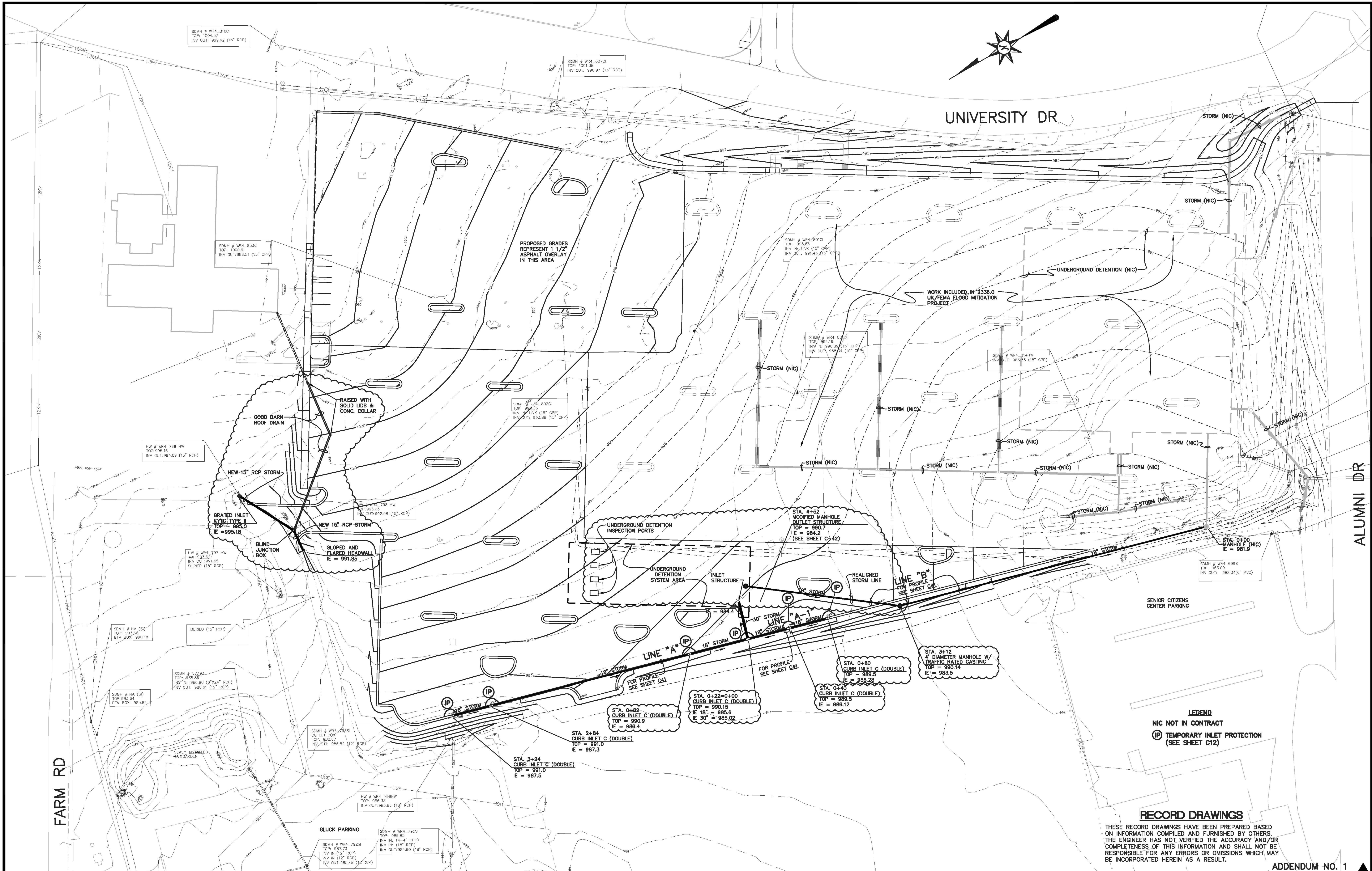
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SITE LAYOUT

DIVISION	GENERAL
CONTRACT NO.	600-001
DATE	APRIL 2014
SHEET NO.	C30





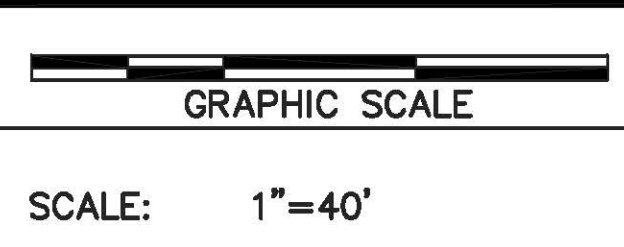


**LEGEND**  
 NIC NOT IN CONTRACT  
 IP TEMPORARY INLET PROTECTION (SEE SHEET C12)

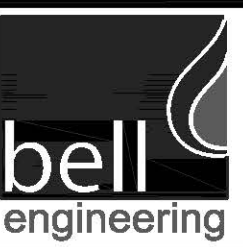
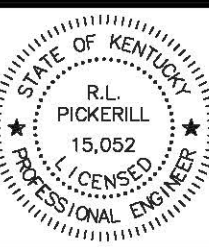
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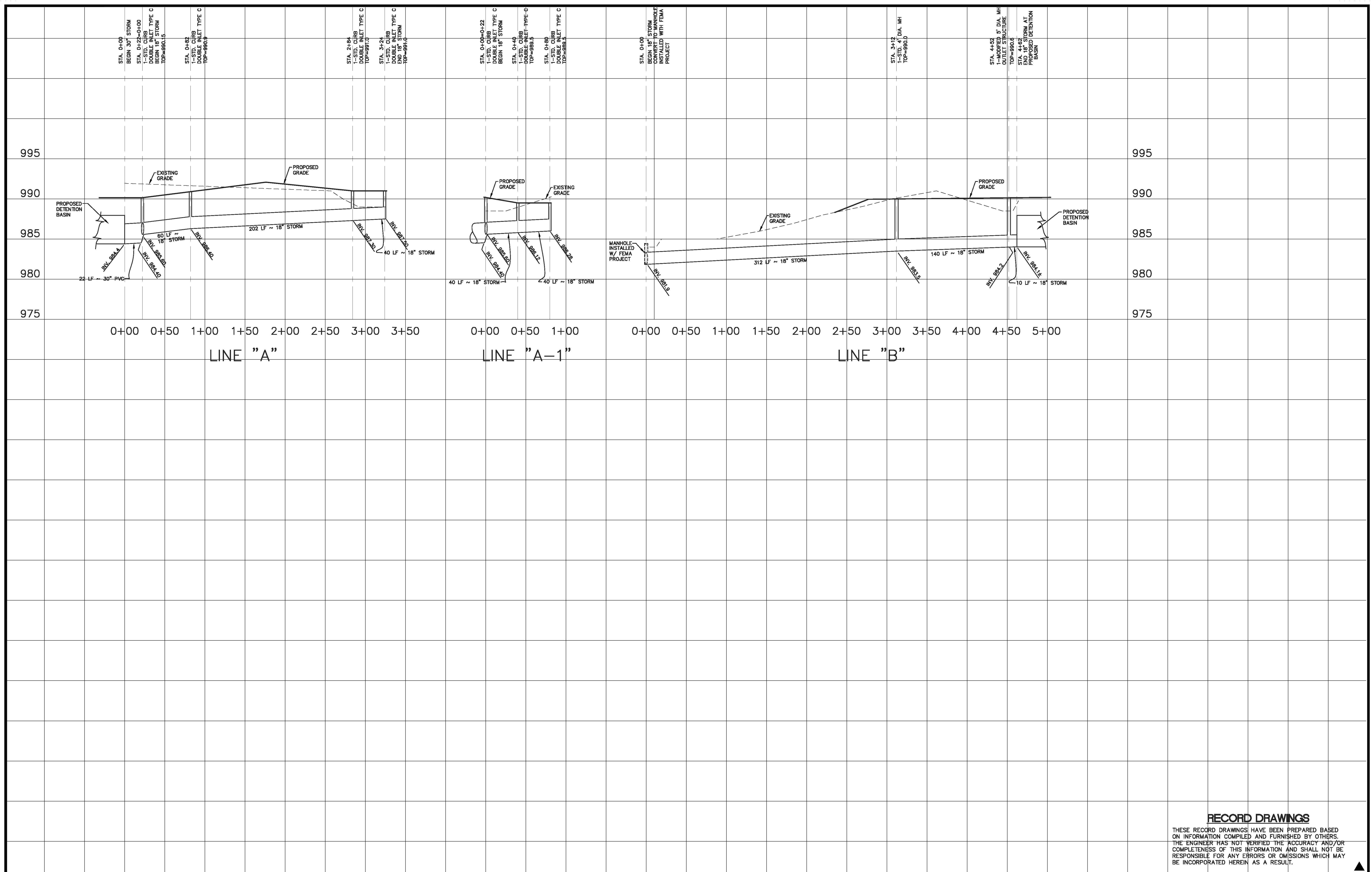
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GRADING AND DRAINAGE PLAN

DIVISION	GENERAL
CONTRACT NO.	600-001
DATE	APRIL 2014
SHEET NO.	C40

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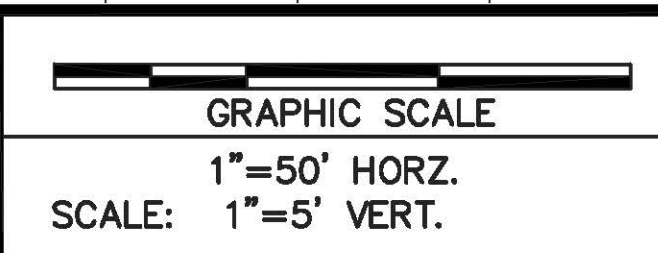
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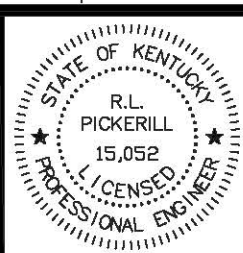
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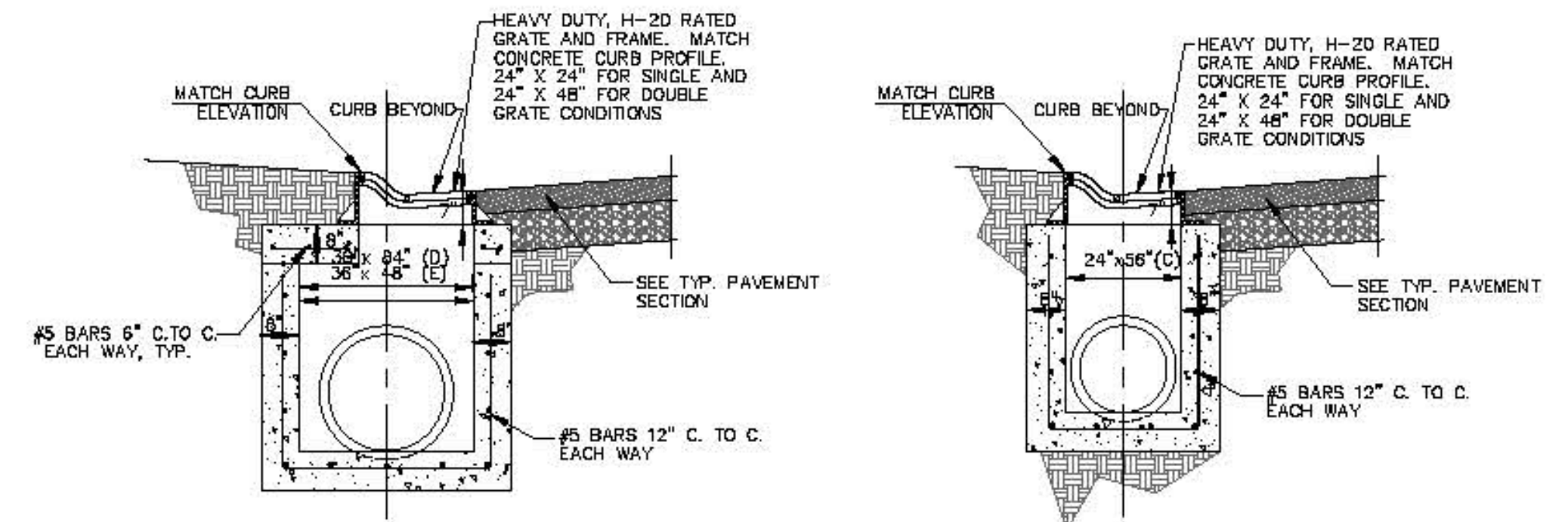
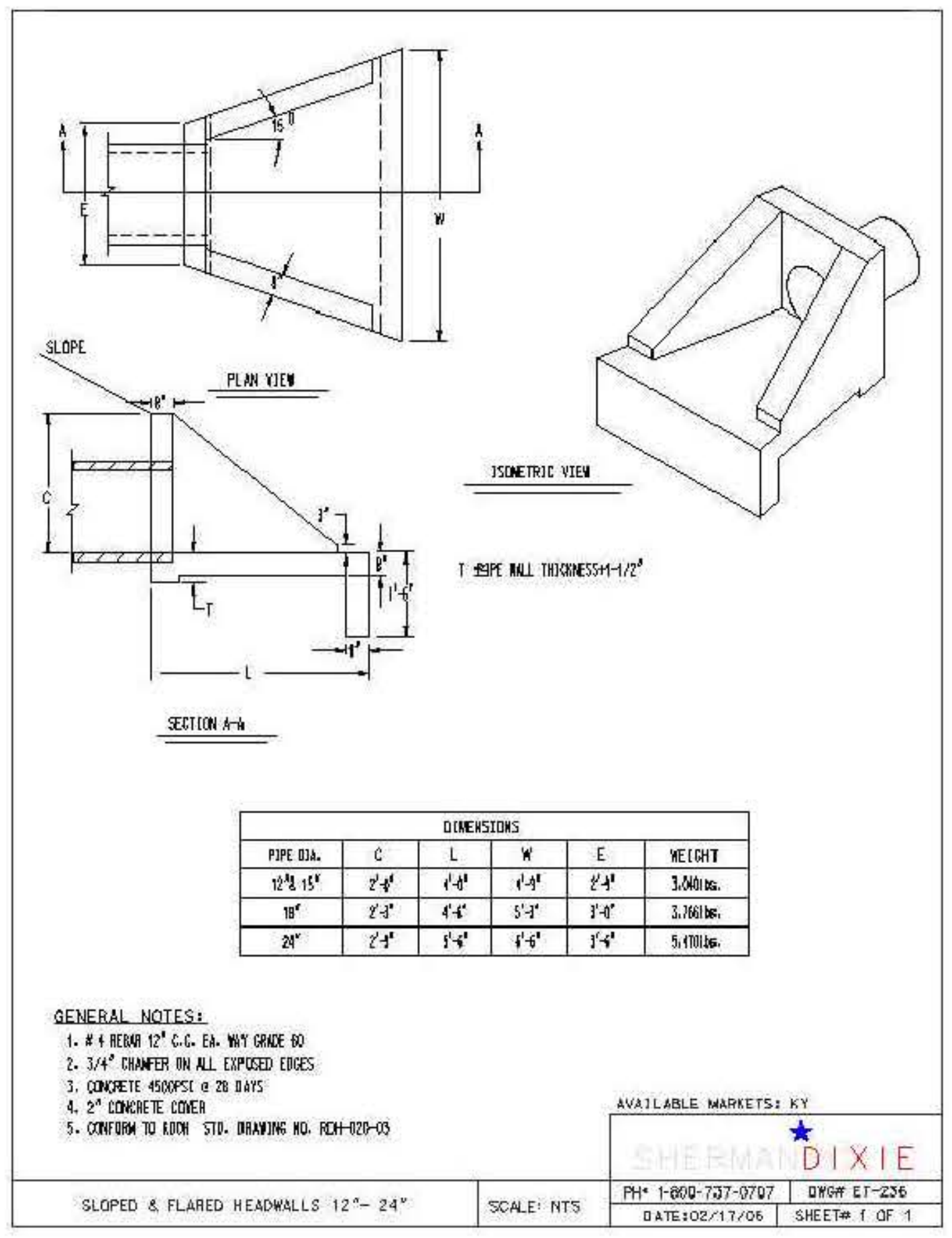
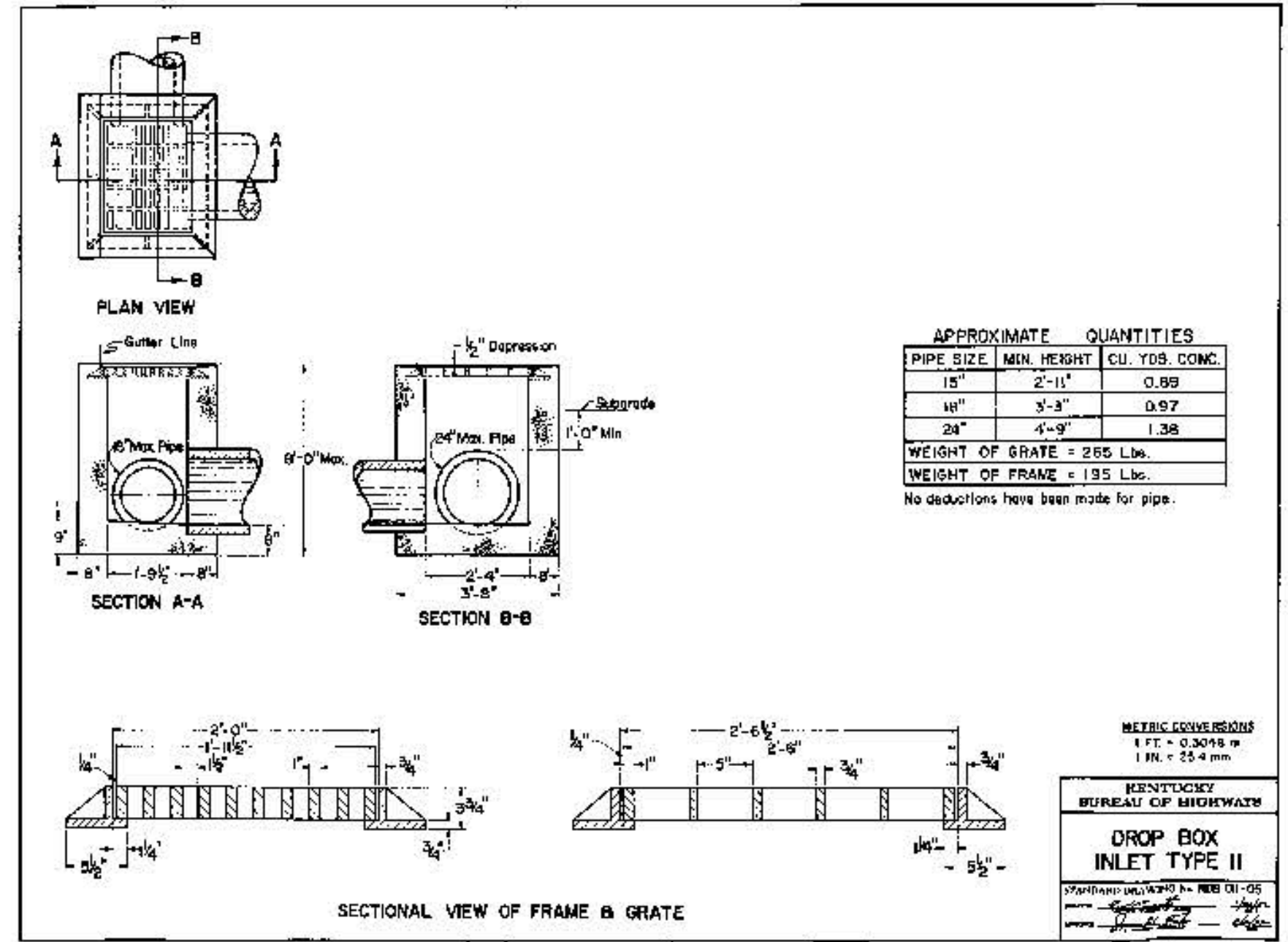


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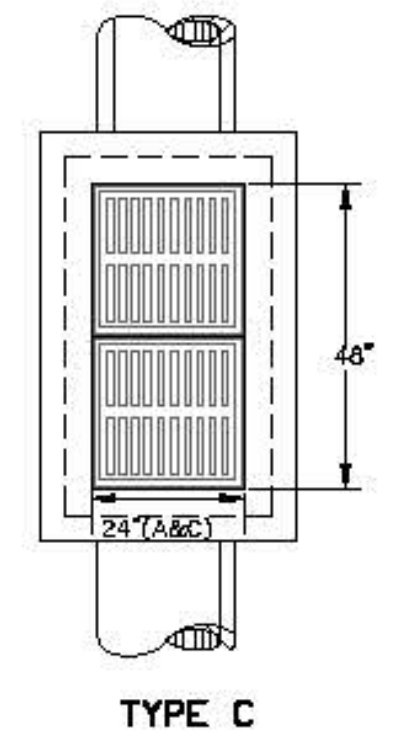
**STORM PIPE PROFILES**

DIVISION	GRADING & DRAINAGE
CONTRACT NO.	600-001
DATE	APRIL 2014
SHEET NO.	C-41



CURB INLET, SINGLE AND DOUBLE GRATE

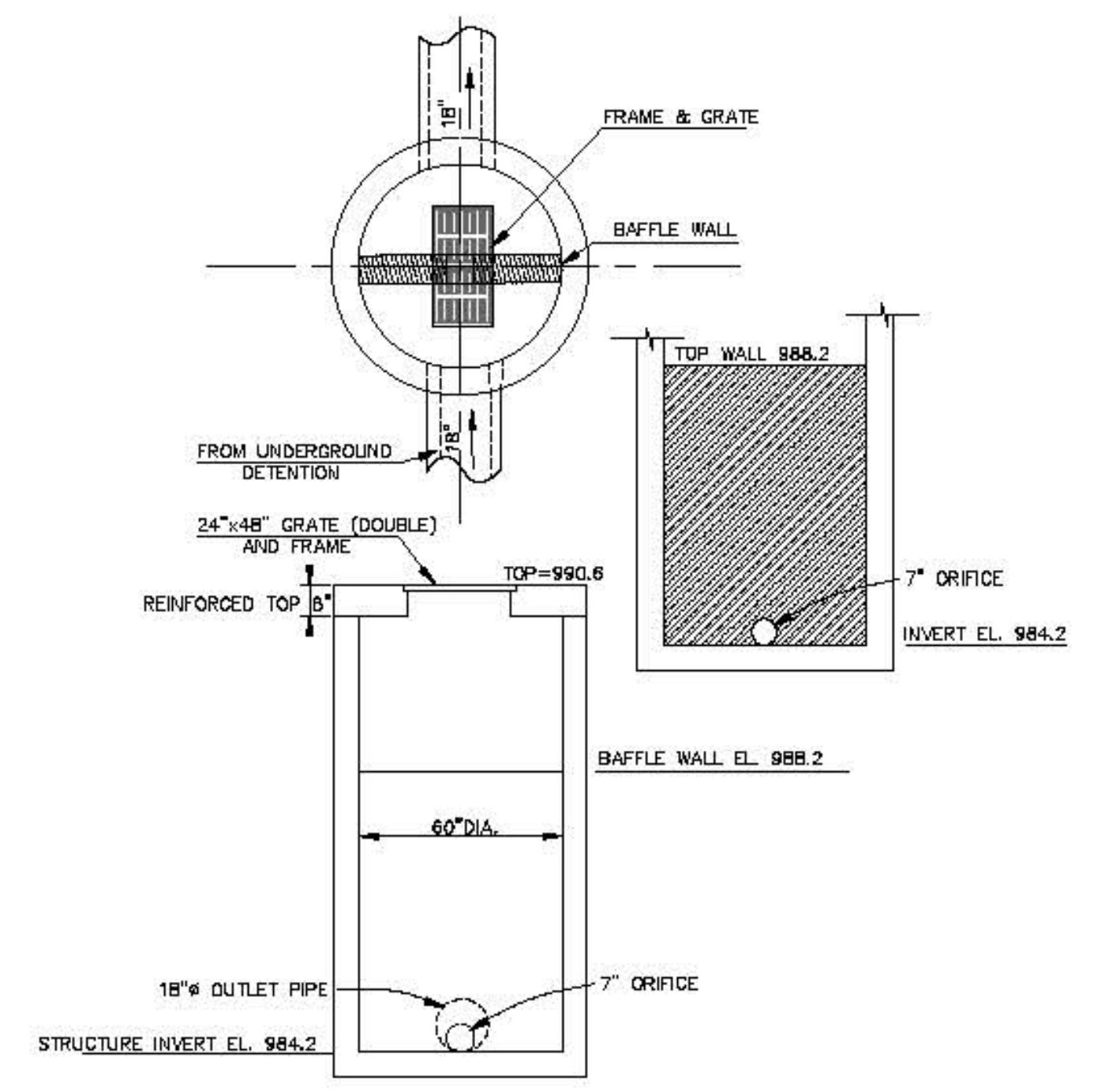
N.T.S.



CURB INLET - DOUBLE GRATE

N.T.S.

SINGLE GRATES ARE BASED ON NEENAH R-3501-NL. PROVIDE CUSTOM FABRICATED FRAMES FOR DOUBLE GRATES IF STOCK FRAMES ARE NOT AVAILABLE.



MODIFIED MANHOLE  
OUTLET STRUCTURE

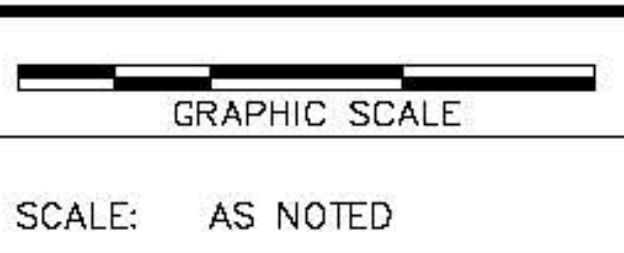
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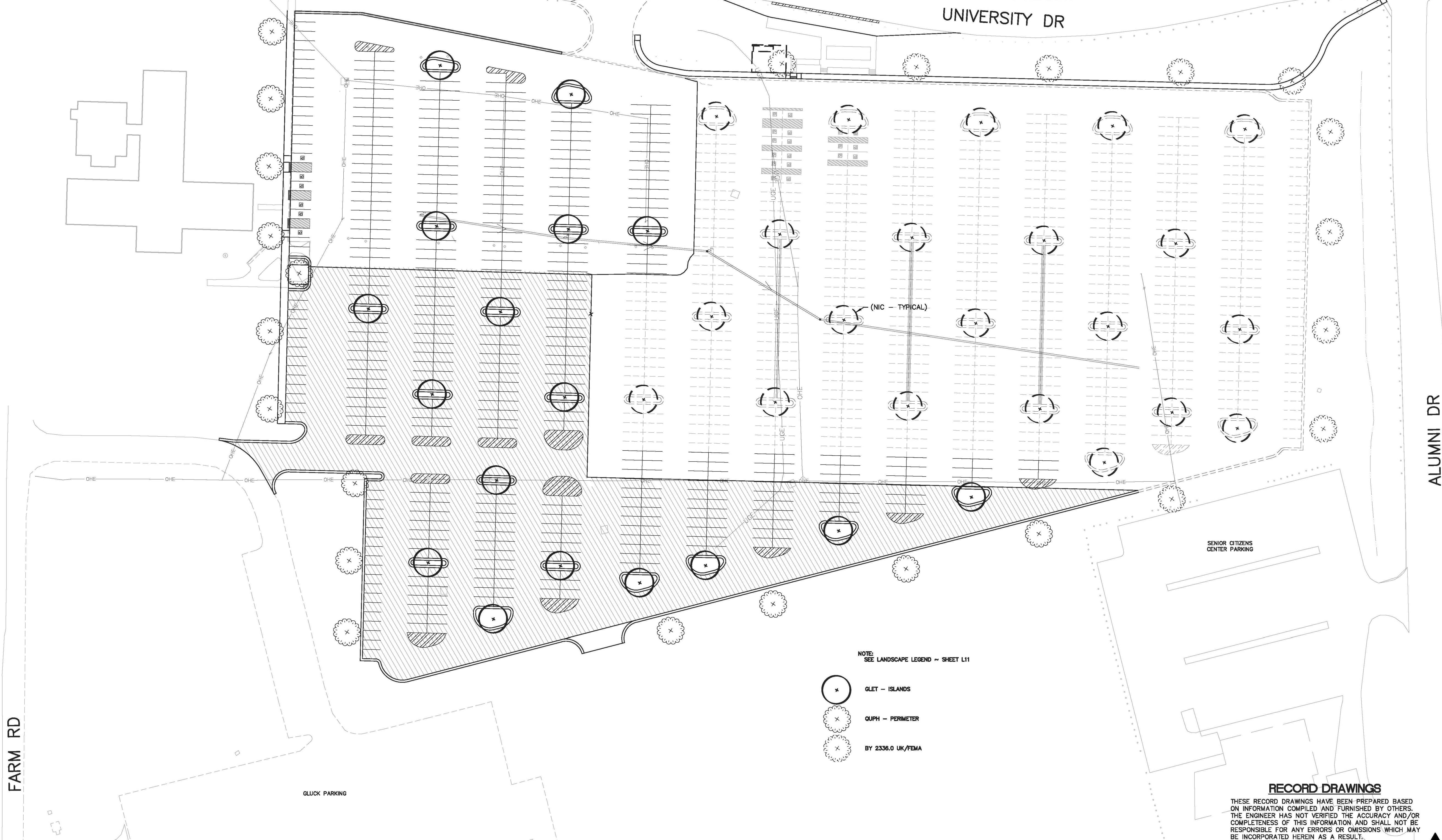
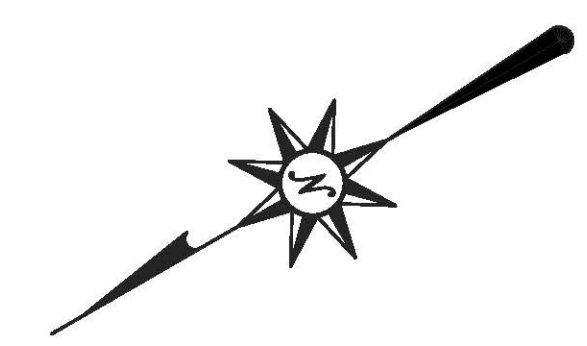


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**DRAINAGE STRUCTURE DETAILS**

DIVISION	GRADING & DRAINAGE
CONTRACT NO.	600-037
DATE	APRIL 2014
SHEET NO.	C42



NOTE:  
SEE LANDSCAPE LEGEND ~ SHEET L11

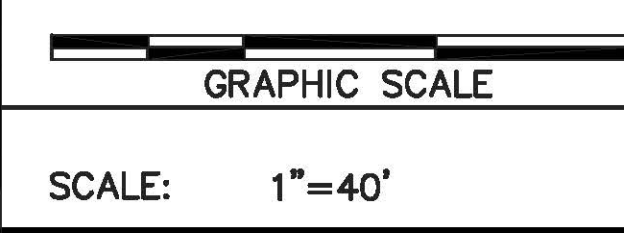
- GLET - ISLANDS
- GUPH - PERIMETER
- BY 2336.0 UK/FEMA

**RECORD DRAWINGS**

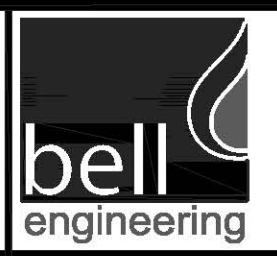
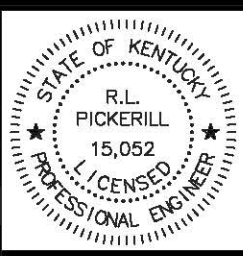
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LANDSCAPING PLAN

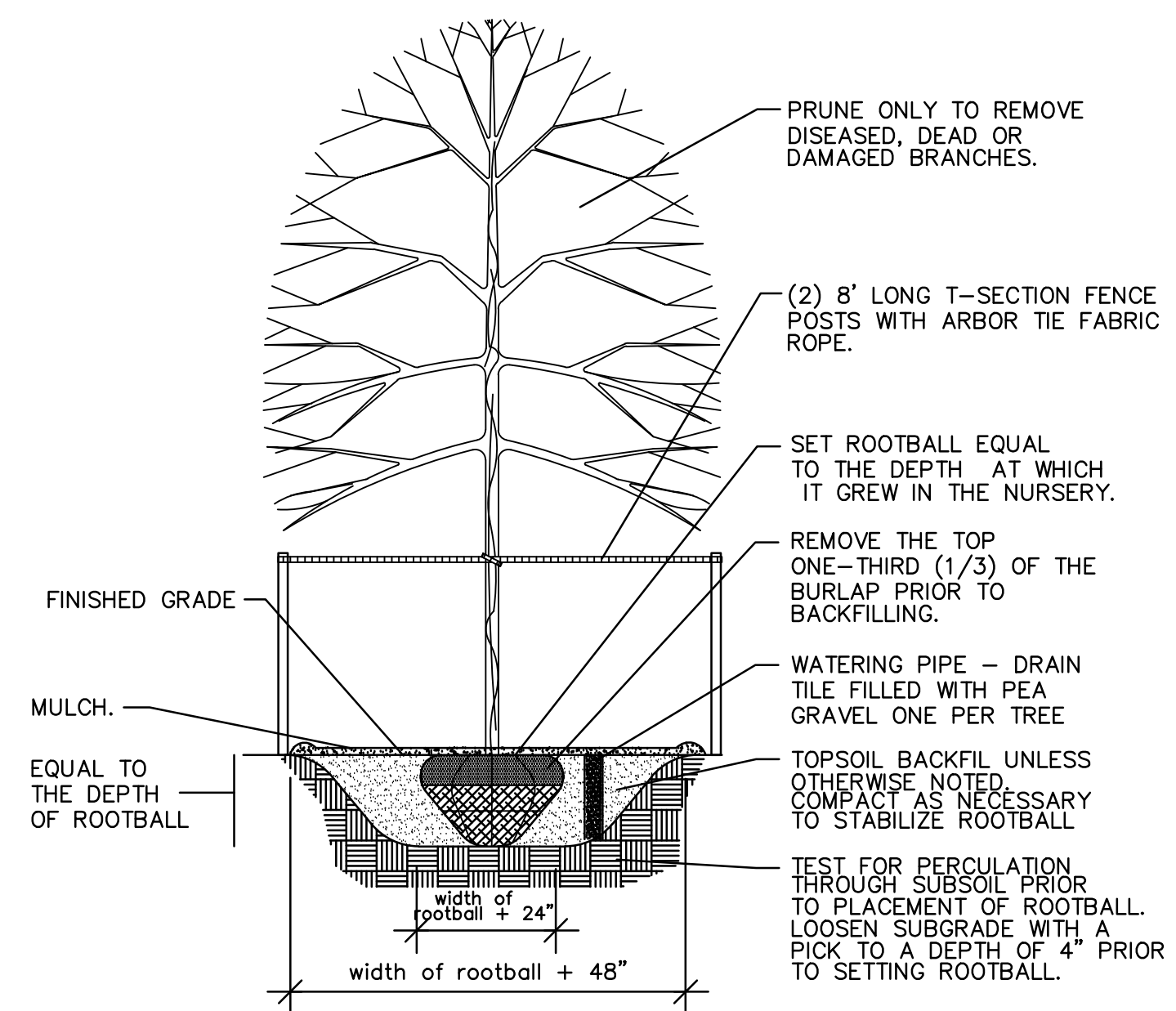
DIVISION	LANDSCAPING
CONTRACT NO.	600-001
DATE	APRIL 2014
SHEET NO.	L10

**PLANTING NOTES**

1. REQUIREMENTS FOR THE MEASUREMENT, BRANCHING, GRADING, BALLING AND BURLAPPING OF PLANTS IN THE PLANT LIST GENERALLY FOLLOWS OR EXCEEDS A CODE OF STANDARDS CURRENTLY RECOMMENDED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC. IN THE AMERICAN STANDARD FOR NURSERY STOCK. SEE THE PLANT LIST FOR OTHER REQUIREMENTS.
2. ALL PLANTS SHALL HAVE A WELL FORMED HEAD WITH MINIMUM CALIPER, HEIGHT AND SPREAD OF THE SIDE BRANCHES AS SHOWN ON THE PLANT LIST. TRUNKS SHALL BE UNDAUNAGED AND SHAPE SHALL BE TYPICAL OF THE SPECIES.
3. CONTAINERIZED TAXUS OR TAXUS WITH SAND BALLS ARE NOT PERMITTED ON THIS PROJECT. TAXUS MUST BE SUPPLIED BALLED AND BURLAPPED WITH A CLAY LOAM SOIL SIMILAR TO THAT FOUND ON THE SITE.
4. PLANTS SHALL BE SOUND, HEALTHY, VIGOROUS AND FREE FROM INSECTS, PESTS, PLANT DISEASES AND INJURIES. ALL PLANTS SHALL EQUAL OR EXCEED THE MEASUREMENTS SPECIFIED IN THE PLANT LIST WHICH ARE MINIMUM ACCEPTABLE SIZES. THEY SHALL BE MEASURED BEFORE PRUNING.
5. SYNTHETIC BURLAP SHALL NOT BE USED IN BALLING AND BURLAPPING ANY PLANTS ON THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSURING THAT THIS REQUIREMENT IS MET.
6. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR STAKING AND LAYOUT OF PLANTINGS IN THIS PROJECT. THE LANDSCAPE ARCHITECT OR OWNER SHALL BE ADVISED WHEN STAKES ARE READY FOR INSPECTION OF VARIOUS PLANTING AREAS. ALL LAYOUT WORK SHALL BE INSPECTED AND APPROVED BY THE LANDSCAPE ARCHITECT OR OWNER PRIOR TO OPENING ANY PLANTING PITS.
7. SHOULD THE LANDSCAPE CONTRACTOR ENCOUNTER UNSATISFACTORY SURFACE OR SUBSURFACE DRAINAGE CONDITIONS, SOIL DEPTH, LATENT SOILS, HARD PAN, UTILITY LINES OR OTHER CONDITIONS THAT WILL JEOPARDIZE THE HEALTH AND VIGOR OF THE PLANTS, HE MUST ADVISE THE LANDSCAPE ARCHITECT IN WRITING OF THE CONDITIONS PRIOR TO INSTALLING THE PLANTS. OTHERWISE THE LANDSCAPE CONTRACTOR WARRANTS THAT THE PLANTING AREAS ARE SUITABLE FOR PROPER GROWTH AND DEVELOPMENT OF THE PLANTS TO BE INSTALLED.
8. IT IS THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR TO VERIFY THAT EACH EXCAVATED TREE OR SHRUB PIT WILL PERCOLATE (DRAIN) PRIOR TO ADDING TOPSOIL AND INSTALLING TREES OR SHRUBS. THE CONTRACTOR SHALL FILL THE BOTTOM OF SELECTED HOLES WITH SIX (6) INCHES OF WATER. THIS WATER SHOULD PERCOLATE OUT WITHIN A TWENTY-FOUR (24) HOUR PERIOD. THE LANDSCAPE ARCHITECT SHALL VERIFY ACCURACY AND EFFECT OF PERCOLATION TESTING. IF THE SOIL AT A GIVEN AREA DOES NOT DRAIN PROPERLY, A PVC DRAIN OR GRAVEL SNIP SHALL BE INSTALLED OR THE PLANTING RELOCATED.
9. TOPSOIL SHALL BE ORIGINAL SURFACE LOAM OBTAINED FROM WELL-DRAINED AREAS FROM WHICH TOPSOIL HAS NOT BEEN REMOVED PREVIOUSLY, EITHER BY EROSION, CLEARING AND REMOVAL OF TREES OR MECHANICAL MEANS. IT SHALL NOT CONTAIN SUBSOIL MATERIAL AND SHALL BE CLEAN AND FREE OF CLAY LUMPS, ROOTS, STONES OR SIMILAR SUBSTANCES MORE THAN 1" IN DIAMETER, DEBRIS, DISCARDED FRAGMENTS OF BUILDING MATERIALS OR WEEDS AND WEED SEEDS. TOPSOIL SHALL BE CLASSIFIED AS A LOAM, SILT LOAM, CLAY LOAM OR A COMBINATION THEREOF, AS DETERMINED FROM THE BUREAU OF PLANT INDUSTRY SOILS AND AGRICULTURAL ENGINEERING, U.S.D.A. TRIANGULAR SOIL TEXTURE CHART. IT SHALL BE RICH, FRIABLE LOAM CONTAINING NOT LESS THAN THREE (3) PERCENT NOR MORE THAN TEN (10) PERCENT, BY WEIGHT, OF ORGANIC MATTER.
10. PLANTING PITS FOR TREES AND SHRUBS SHALL BE DUG A FULL TWELVE (12) INCHES WIDER THAN THE BALL AROUND THE ENTIRE PLANT AND SIX (6) INCHES DEEPER THAN THE BALL. NEW TOPSOIL AS SHALL BE FURNISHED BY THE CONTRACTOR. ANY HEAVY CLAY OR OTHER SOIL UNSUITABLE FOR PLANTING ENCOUNTERED IN THE BOTTOM OF THE HOLES SHALL BE REMOVED FROM THE SITE. IF THE LANDSCAPE CONTRACTOR ENCOUNTERS SOILS THAT ARE SUITABLE FOR BACKFILL, HE SHALL ADVISE THE LANDSCAPE ARCHITECT PRIOR TO BACKFILLING. A WRITTEN CHANGE ORDER WITH A CREDIT TO THE OWNER MAY BE PREPARED TO ALLOW THE CONTRACTOR TO USE EXISTING SOILS AS BACKFILL.
11. ALL EXCAVATIONS MADE WITH AN AUGER SHALL HAVE THE ENTIRE SIDE OF THE PLANTING PIT SCARIFIED TO A MINIMUM DEPTH OF ONE (1) INCH.
12. NO EXCAVATION OR PLANTING PIT SHALL BE LEFT UNATTENDED OR OPEN OVERNIGHT.
13. SHREDDED HARDWOOD BARK MULCH SHALL BE APPLIED TO ALL SHRUB BEDS BY THE LANDSCAPE CONTRACTOR. BEDS SHALL BE TREATED WITH PRE-EMERGENT HERBICIDE BY THE LANDSCAPE CONTRACTOR BEFORE MULCH IS APPLIED. MULCH SHALL BE AN APPROVED, CLEAN, SHREDDED HARDWOOD BARK OF UNIFORM SIZE NOT TO EXCEED A LENGTH OF THREE (3) INCHES OR A THICKNESS OF ONE-HALF (1/2) INCH. IT SHALL BE DE-CAY AND FIRE RESISTANT, NON-TOXIC TO PLANT MATERIAL AND BE SCREENED TO REMOVE SAWDUST AND FINE SHAVINGS AND AGED TO OBTAIN A DARK BROWN COLOR. A SAMPLE OF MULCH SHALL BE PRESENTED TO THE OWNER FOR APPROVAL.
14. ALL TREES ARE TO BE STAKED IMMEDIATELY AFTER PLANTING. WRAPPING SHALL NOT BE REQUIRED ON THIS PROJECT.
15. ALL CORDS AND BINDINGS SHALL BE CUT FROM PLANTS PRIOR TO PLANTING.
16. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED MAINTENANCE UNTIL ALL PLANTINGS ARE FORMALLY ACCEPTED. ALL PLANTS SHALL BE WATERED AT TIME OF INSTALLATION AND AS OFTEN THEREAFTER AS NECESSARY TO MAINTAIN THEM IN A HEALTHY, VIGOROUS CONDITION UNTIL COMPLETION OF WORK AND ACCEPTANCE BY OWNER.
17. THE OWNER SHALL BE RESPONSIBLE FOR LANDSCAPE MAINTENANCE AFTER THE PLANTINGS ARE FORMALLY ACCEPTED DURING THE ONE (1) YEAR GUARANTEE PERIOD. THE LANDSCAPE CONTRACTOR SHALL PROVIDE THEM WITH WRITTEN INSTRUCTIONS FOR THE CARE OF THE PLANTINGS DURING THE WARRANTY PERIOD.
18. THE LANDSCAPE CONTRACTOR SHALL MAINTAIN THE SITE IN A REASONABLY NEAT AND CLEAN STATE THROUGHOUT THE INSTALLATION PROCESS. STREETS AND PAVED AREAS SHALL BE CLEANED REGULARLY TO REMOVE DEBRIS RESULTING FROM WORK ON THIS PROJECT.
19. PLANTS SHALL BE GUARANTEED FOR THE DURATION OF ONE (1) FULL YEAR AFTER THE FORMAL ACCEPTANCE OF THE PLANTING BY THE OWNER AND SHALL BE ALIVE AND IN SATISFACTORY CONDITION AT THE END OF THE GUARANTEE PERIOD. ANY PLANT NOT IN A HEALTHY AND VIGOROUS STATE AT THE END OF THE GUARANTEE PERIOD SHALL BE REPLACED AT NO COST TO THE OWNER. PLANTS SEVERELY DAMAGED THROUGH VANDALISM ARE NOT SUBJECT TO REPLACEMENT BY THIS CONTRACTOR.
20. ALL PLANTS ARE TO BE ALIVE, HEALTHY AND VIGOROUS AT THE TIME OF THE FINAL INSPECTION. ANY PLANT THAT DOES NOT MEET THIS CONDITION SHALL BE REINSTALLED IMMEDIATELY OR AS SOON AS WEATHER CONDITIONS PERMIT AT NO EXPENSE TO THE OWNER.
21. REPLACEMENT OF DEAD OR UNSATISFACTORY MATERIAL SHALL BE MADE AS SPECIFIED IN THE PLANT LIST. THE OWNER OR LANDSCAPE ARCHITECT SHALL INSPECT REPLACED PLANTS WHEN ALL REPLACEMENTS HAVE BEEN MADE. REPLACEMENTS ARE TO BE ALIVE AND IN A HEALTHY CONDITION WHEN THE REPLACEMENT IS COMPLETE, BUT THEY SHALL NOT BE SUBJECT TO A ONE (1) YEAR GUARANTEE. THE LANDSCAPE CONTRACTOR SHALL REMOVE THE STAKING AT THE TIME THE REPLACEMENTS ARE MADE.
22. SHOULD THE LANDSCAPE CONTRACTOR NOT MAKE REPLACEMENTS IN A SATISFACTORY AND TIMELY FASHION IN ACCORD WITH THE PLANTING NOTES, THE OWNER AFTER PROPER NOTIFICATION TO THE LANDSCAPE CONTRACTOR, MAY UTILIZE THE FUNDS OF RETAINAGE TO HAVE REPLACEMENTS MADE IN ACCORD WITH THE PLANTING NOTES, BY THE LANDSCAPE CONTRACTOR.

**PLANT LIST**

ABBREV.	BOTANICAL NAME	COMMON NAME	MINIMUM CALIPER	MINIMUM SPREAD	MINIMUM HEIGHT	MINIMUM BALL DIA.	NO. CANE
GLET	<i>Gleditsia triacanthos inermis 'Imperial'</i>	Imperial Honeylocust	2"	4'	12'	28"	1
QUPH	<i>Quercus phellos</i>	Willow Oak	2"	4'	12'	28"	1



**TREE PLANTING DETAIL**

**RECORD DRAWINGS**

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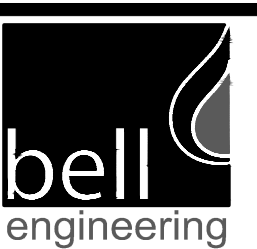
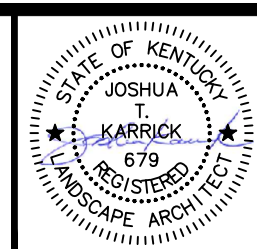
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DESIGNER	JTK	DATE	BY	REVISION
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CHECKED	AGC			
APPROVED	RLP			

GRAPHIC SCALE

SCALE: AS NOTED

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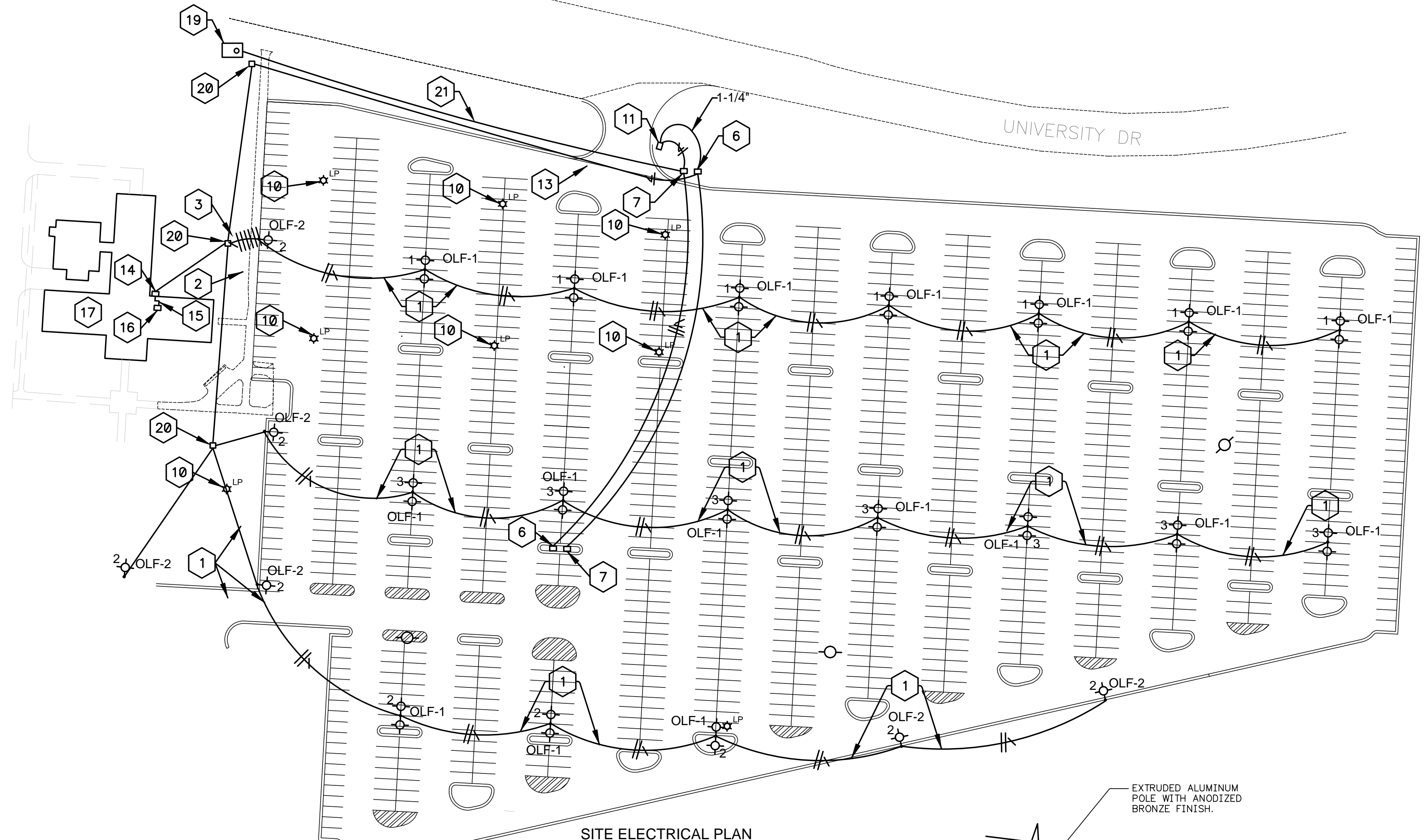
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LANDSCAPING DETAILS

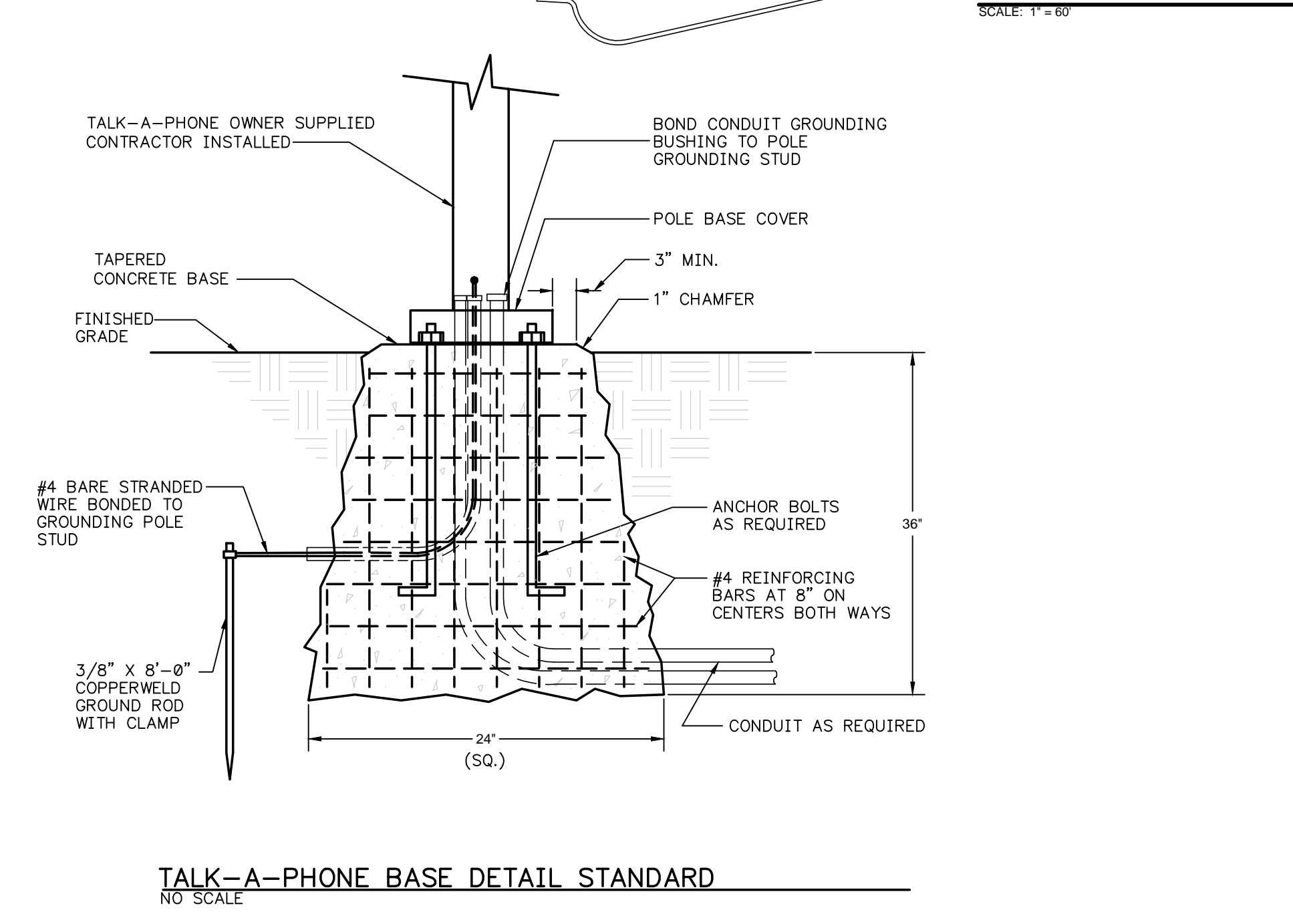
DIVISION	LANDSCAPING
CONTRACT NO.	600-037
DATE	APRIL 2014
SHEET NO.	L11

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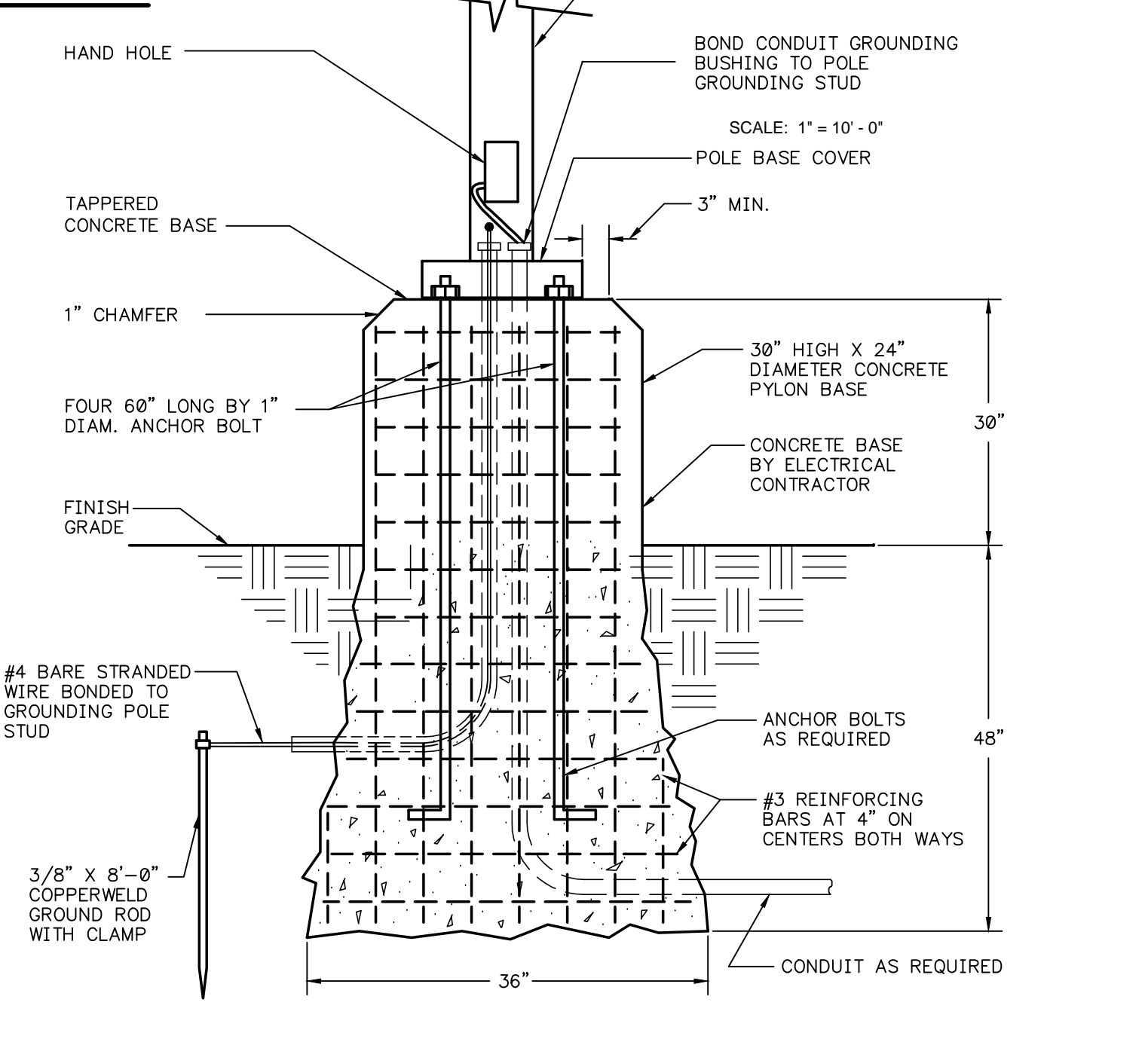


- GENERAL NOTES: SITE UTILITIES**
- A THE CONTRACT DOCUMENTS SHOW THE APPROXIMATE LOCATION OF THE EXISTING AND NEW SUBSURFACE UTILITY LINES. THESE LINES HAVE BEEN IDENTIFIED AND LOCATED AS ACCURATELY AS POSSIBLE USING AVAILABLE INFORMATION. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL ACTUAL LOCATIONS. IF ANY CHARTED, UNCHARTED OR MISLOCATED UTILITY SERVICE IS INTERRUPTED FOR ANY REASON, THE CONTRACTOR WILL WORK CONTINUOUSLY TO RESTORE SERVICE TO THE SATISFACTION OF THE OWNER.
  - B THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL EXISTING UNDERGROUND UTILITIES PRIOR TO EXCAVATING. THE OWNER WILL NOT LOCATE THESE UTILITIES FOR THE CONTRACTOR. IF AN OUTSIDE SERVICE OR COMPANY IS REQUIRED TO ACCURATELY LOCATE BURIED UTILITIES THE CONTRACTOR IS RESPONSIBLE FOR SCHEDULING THIS WORK AND IS RESPONSIBLE FOR THE COSTS. THE CONTRACTOR SHOULD CONTACT APPROPRIATE UTILITY COMPANIES BEFORE DOING ANY EXCAVATING.
  - C LOCATIONS OF UTILITIES ARE APPROXIMATE AND SUBJECT TO MINOR CHANGES IN THE FIELD. DO NOT SCALE THE DRAWINGS.
  - D INSTALL UNDERGROUND BRANCH CIRCUITS WITH 2'-0" MINIMUM COVER.
  - E EXCAVATION: MATERIALS TO BE EXCAVATED SHALL INCLUDE EARTH AND ANY OTHER MATERIAL, INCLUDING ROCK, ENCOUNTERED IN THE TRENCH EXCAVATION.
  - F SITE LIGHTING CIRCUITS SHALL BE MINIMUM #6 CONDUCTORS IN 1-1/4" CONDUIT.

- CODED NOTES:**
1. 2#6S (2 HOTS) AND 1#8 GND. IN 1-1/4".
  2. 4#6S (4 HOTS) AND 1#8 GND. IN 1-1/4".
  3. 6#6S (6 HOTS) AND 1#8 GND. IN 1-1/4". TO 3 NEW 20A/2P BREAKERS IN EXISTING PANELBOARD.
  4. CONNECT NEW CONDUIT TO EXISTING PULL BOX. PULL NEW WIRING INTO EXISTING PANELBOARD.
  5. EXISTING PANELBOARD. PROVIDE 3-20A/2P BREAKERS TO FEED NEW LIGHTS. 120A/1P TO FEED TALK-A-PHONE.
  6. 12"x15"x24" DEEP SOLID BOTTOM FRP STRAIGHT QUARTZITE IN GROUND BOX WITH GASKETED TWO BOLT COVER TIER 15 (15,000/22,000 LB) LOAD RATING. LABEL BOXES "ELECTRIC" FOR POWER AND "COMMUNICATIONS" FOR FIBER. FINAL BOX LOCATIONS WILL BE FIELD LOCATED AND MAY MOVE TO PARKING ROWS TO THE SOUTH.
  7. EXTEND #10'S AND #8 GND. TO TALK-A-PHONE FOR 120V POWER. COIL #6'S IN PULL BOX FOR FUTURE EXTENSION TO BUS STOP. FINAL BOX LOCATIONS WILL BE FIELD LOCATED AND MAY MOVE TO PARKING ROWS TO THE SOUTH.
  8. EMERGENCY CALL BOX. PROVIDE 1-1". TO COMMUNICATION ROOM IN GOOD BARN FOR FUTURE.
  9. 2#6S AND 1#8 GND. TO NEW 20A/1P BREAKER IN PANELBOARD IN THE GOOD BARN.
  10. REMOVE EXISTING LIGHT FIXTURE CONCRETE BASE AND ALL BRANCH CIRCUIT WIRING. SALVAGE AND DELIVER FIXTURE AND POLE TO THE PPD DIVISION.
  11. TALK-A-PHONE. PROVIDE POWER AND COMMUNICATION CONDUIT.
  12. CONDUIT FOR FIBER. FIBER TO BE INSTALLED BY OWNER.
  13. 3#6S (TWO HOTS AND ONE NEUTRAL) AND 2#10'S (2 HOTS AND ONE NEUTRAL) AND 1#8 GND.
  14. TERMINATE POWER FEEDS INTO EXISTING EXTERIOR PULL BOX AFTER REMOVING EXISTING CONDUIT AND BRANCH CIRCUIT WIRING THAT FEED EXISTING LIGHTS.
  15. INSTALL NEW WIRING IN EXISTING 1-1/4" CONDUIT. TERMINATE WIRE FOR NEW LIGHTS AND TALK-A-PHONE. PULL WIRING FOR THE FUTURE BUS SHELTER IN AND MAKE FOR SPARE IN PANELBOARD GUTTER.
  16. EXISTING SQUARE D PANELBOARD. PROVIDE 3 NEW 20A/2P, AND 1 20A/1P BREAKERS FOR NEW LIGHTS AND TALK-A-PHONE. MARK EXISTING LIGHTING BREAKERS AS SPARE FOR FUTURE BUS STOP.
  17. CONNECT TO EXISTING SURFACE MOUNTED COMMUNICATION PULL BOX.
  18. 1-1/4" CONDUIT FOR OWNER INSTALLED FIBER.
  19. EXISTING COMMUNICATIONS MANHOLE.
  20. NEW QUARTZITE BOX.
  21. 2" PVC FOR FUTURE FIBER OPTIC CABLE.



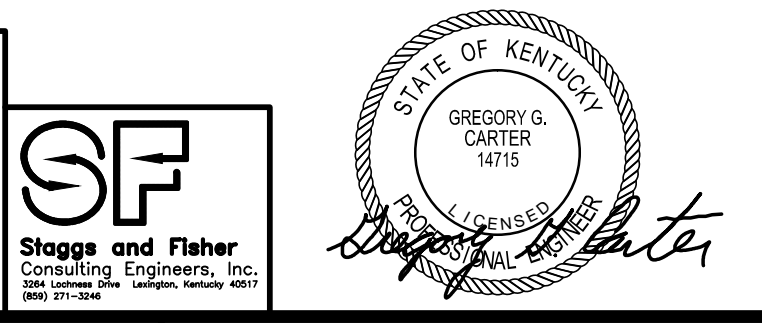
**TALK-A-PHONE BASE DETAIL STANDARD**  
NO SCALE



**DETAIL OF PYLON BASE FOR LIGHTING FIXTURES OLF-1 & OLF-2**  
NO SCALE

- LIGHT FIXTURE SCHEDULE:**
- OLF-1 LED AREA LIGHT WITH LOW COPPER DIECAST ALUMINUM FINNED HOUSING, REMOVABLE POWER DOOR, STAINLESS STEEL LATCHES, CAST ALUMINUM ARCHITECTURAL POLE MOUNTING ARM, 100,000 HOUR L70 RATED LIFE LED LIGHT ENGINE, TYPE II MEDIUM DISTRIBUTION 24,718 DELIVERED LUMEN LED ARRAY, CSA LISTED FOR WET LOCATIONS, AND LIMITED FIVE YEAR WARRANTY. TWO FIXTURES TO BE MOUNTED TO A 40' STRAIGHT SQUARE ALUMINUM POLE.
- HOLOPHANE MGLD 6C08 5K IIM L A S5540 DM19  
LITHONIA EQUAL
- OLF-2 LED AREA LIGHT WITH LOW COPPER DIECAST ALUMINUM FINNED HOUSING, REMOVABLE POWER DOOR, STAINLESS STEEL LATCHES, CAST ALUMINUM ARCHITECTURAL POLE MOUNTING ARM, 100,000 HOUR L70 RATED LIFE LED LIGHT ENGINE, TYPE II MEDIUM DISTRIBUTION 24,718 DELIVERED LUMEN LED ARRAY, CSA LISTED FOR WET LOCATIONS, AND LIMITED FIVE YEAR WARRANTY. ONE FIXTURE TO BE MOUNTED TO A 40' STRAIGHT SQUARE STEEL POLE AT 180 DEGREES.
- HOLOPHANE MGLD 6C08 5K IIM L A S5540 DM28  
LITHONIA EQUAL

**NOTE:**  
IT IS NOT INTENDED THAT THE PLANS SHOW ALL OFFSETS IN PIPES, CONDUITS, AND DUCTS REQUIRED FOR INSTALLATION OF THE WORK. DETAILS AND SECTIONS ARE INCLUDED FOR SOME AREAS TO SHOW INTENDED RELATIONSHIP OF THE WORK OF VARIOUS TRADES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CONTRACTORS TO COORDINATE INSTALLATION OF THE WORK AND TO PROVIDE THE NECESSARY OFFSETS, TRANSFORMATIONS AND FITTINGS REQUIRED. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CORRECTING CONFLICTS BETWEEN THE WORK OF VARIOUS TRADES. DETAILS AND SECTIONS ARE SHOWN FOR THE CONTRACTORS CONVENIENCE AND SHALL NOT BE CONSIDERED COMPLETE IN EVERY DETAIL.



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