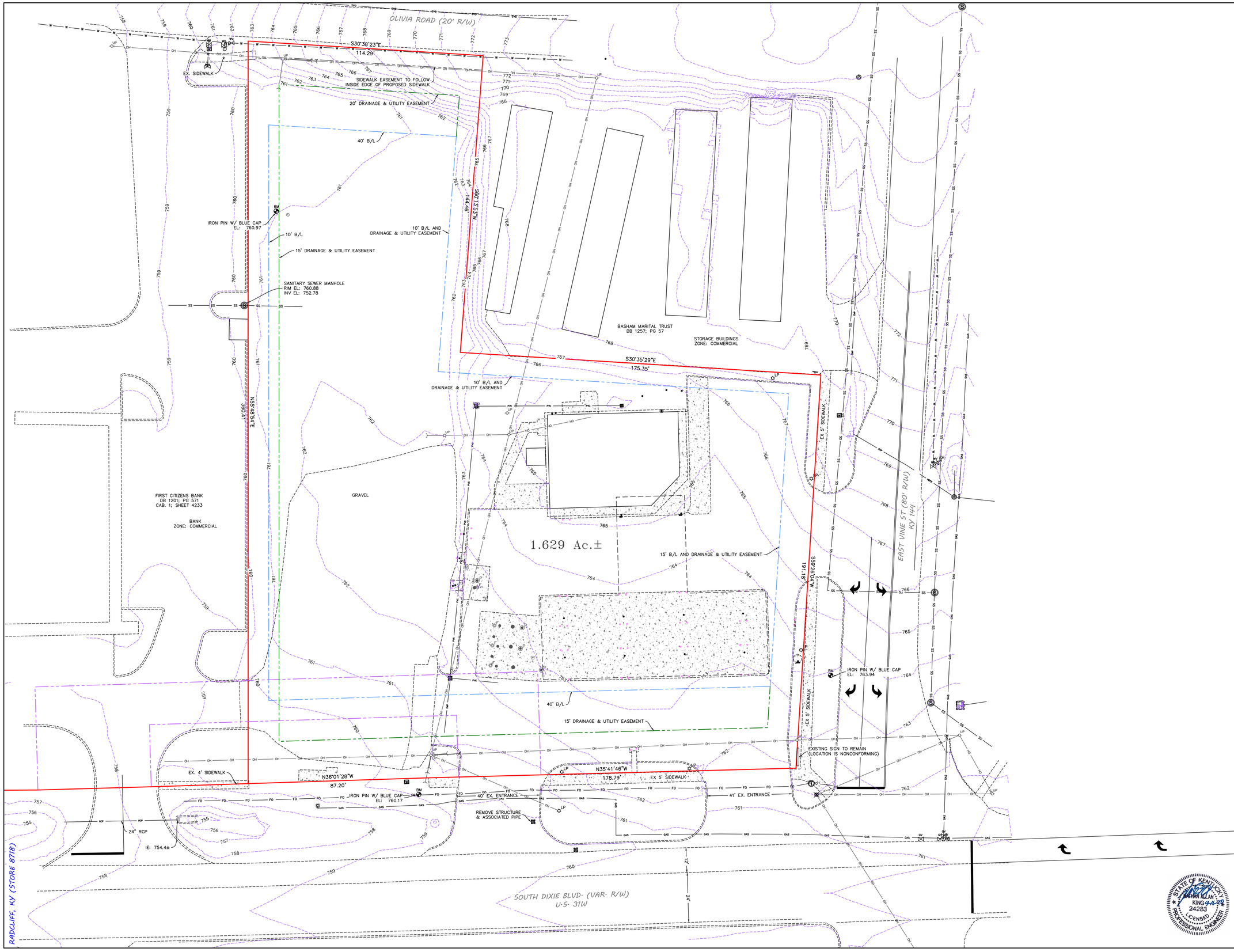


NOTES:

1. PRIOR TO CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION SHALL BEGIN PRIOR TO THE CONTRACTOR RECEIVING AND REVIEWING THE REQUIRED PERMITS AND APPROVALS.
2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DRAINAGE AND UTILITY CONNECTIONS TO ENSURE THEY CAN BE PROPERLY CONNECTED.
3. NO DISTURBANCE TO THE NATURAL GROUND SHALL TAKE PLACE PRIOR TO HAVING THE PROPOSED EROSION CONTROL PLAN APPROVED AND IN PLACE (SEE SHEET C1.01).
4. IN THE EVENT OF A CONFLICT BETWEEN THIS DRAWING AND ANY OTHER DRAWING AND/OR SPECIFICATION, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY FOR CLARIFICATION.
5. ALL UTILITIES SHOWN ARE BASED ON MARKS PROVIDED BY THEIR RESPECTIVE OWNERS AND/OR FOUND VISIBLE EVIDENCE. NO GUARANTEE IS EXPRESSED OR IMPLIED AS TO THE EXISTENCE OF THE UTILITIES SHOWN OR TO THE NON-EXISTENCE OF ANY NOT SHOWN HEREON.
6. DEMOLITION IS TO INCLUDE ALL ITEMS TO EFFECTIVELY AND CORRECTLY CONSTRUCT THE DESIGN AS LAID OUT IN THIS PLAN SET. THIS IS TO INCLUDE ITEMS ABOVE AND BELOW GROUND, AND WHETHER OR NOT SHOWN HEREON. "EFFECTIVELY AND CORRECTLY" IS THE SOLE DISCRETION OF THE ENGINEER AND/OR OWNER BASED ON STANDARD CONSTRUCTION PRACTICE. ANY QUESTIONS SHOULD BE DIRECTED TO THE ENGINEER OR OWNER PRIOR TO BID.

FOR REVIEW
NOT FOR
CONSTRUCTION

SITE LEGEND

BM = BENCHMARK

= CONCRETE AREA

= PROPERTY LINES

0' 20' 40' 60'

Kentucky 811

FIVESTAR

Newcomb OIL CO.

FIVESTAR DEVELOPMENT PLAN
639 SOUTH DIXIE BOULEVARD
RADCLIFF, KY 40160

PROPERTY OWNER:
NEWCOMB OIL CO., LLC
951 WITHROW CT.
BARDSTOWN, KY 40004
502-348-3961

KWM ENGINEERING & LAND SURVEYING

LEBANON OFFICE:
335 N. WOODLAWN AVE.
LEBANON, KY 40033

NATHAN ALLAN KING
P.E. #24283 P.L.S. #3831
BUSINESS: (270) 692-0089
MOBILE: (270) 590-4603
nathan@mykwm.net

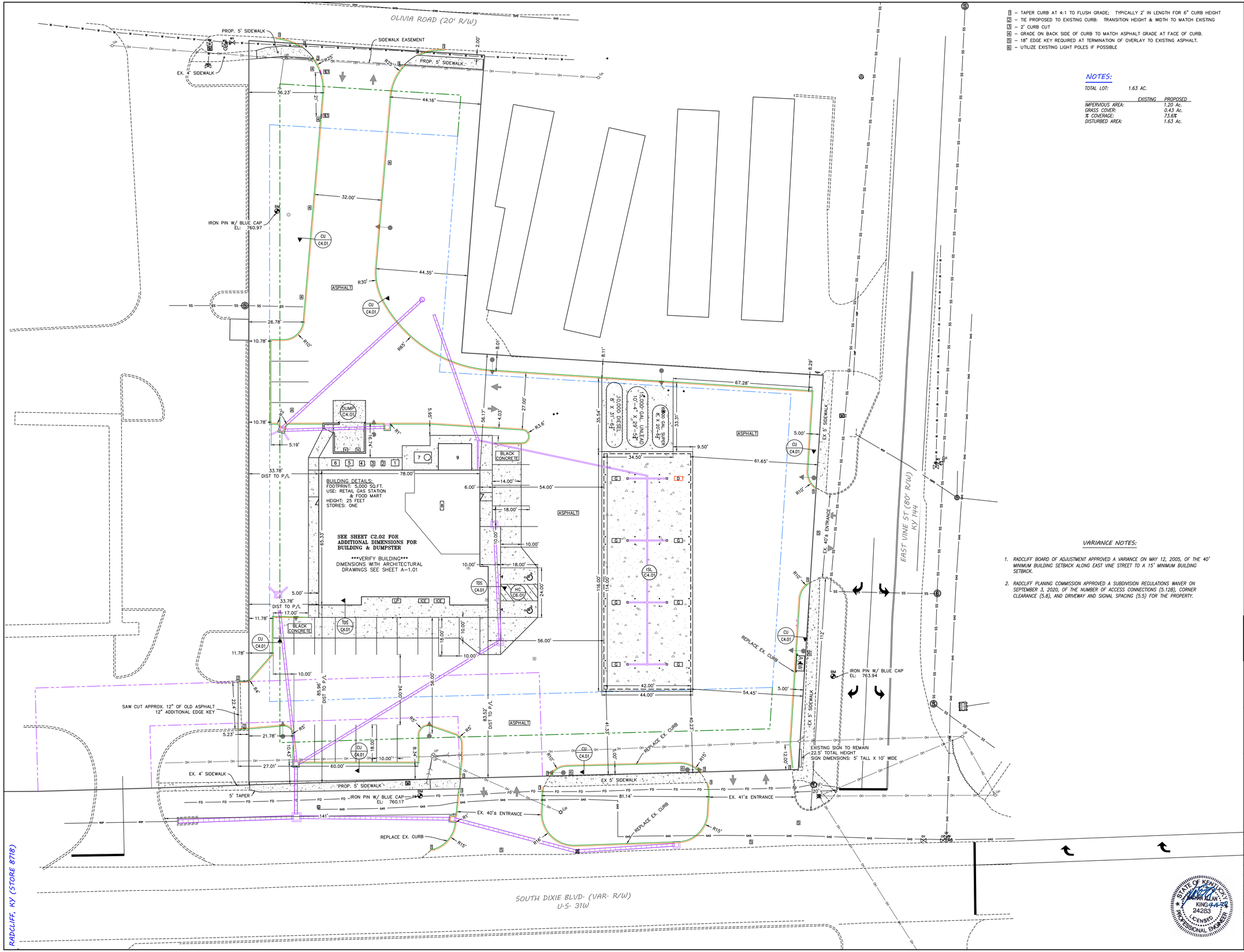
ZONE: COMMERCIAL
PVA MAP # 160-40-13-058
HARDIN COUNTY, KENTUCKY

STATE OF KENTUCKY NATHAN ALLAN KING 24283 LICENSED PROFESSIONAL ENGINEER 9-11-20

SCALE	TOTAL AREA	DATE	DRAWN BY
1" = 10' INCH = FEET	1.629 AC.+/-	6-22, 2020	N. KING

SHEET:
EXISTING CONDITIONS

C0.01



[1] – TAPER CURB AT 4:1 TO FLUSH GRADE; TYPICALLY 2' IN LENGTH FOR 6" CURB HEIGHT
[2] – TIE PROPOSED TO EXISTING CURB: TRANSITION HEIGHT & WIDTH TO MATCH EXISTING
[3] – 2' CURB CUT
[4] – GRADE ON BACK SIDE OF CURB TO MATCH ASPHALT GRADE AT FACE OF CURB.
[5] – 18" EDGE KEY REQUIRED AT TERMINATION OF OVERLAY TO EXISTING ASPHALT.
[6] – UTILIZE EXISTING LIGHT POLES IF POSSIBLE

NOTES:

TOTAL LOT: 1.63 AC.

	EXISTING	PROPOSED
IMPERVIOUS AREA:		1.20 Ac.
GRASS COVER:		0.43 Ac.
% COVERAGE:		73.6%
DISTURBED AREA:		1.63 Ac.

NOTES:

1. PRIOR TO CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION SHALL BEGIN PRIOR TO THE CONTRACTOR RECEIVING AND REVIEWING THE REQUIRED PERMITS AND APPROVALS.
2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DRAINAGE AND UTILITY CONNECTIONS TO ENSURE THEY CAN BE PROPERLY CONNECTED.
3. NO DISTURBANCE TO THE NATURAL GROUND SHALL TAKE PLACE PRIOR TO HAVING THE PROPOSED EROSION CONTROL PLAN APPROVED AND IN PLACE (SEE SHEET C3.01).
4. IN THE EVENT OF A CONFLICT BETWEEN THIS DRAWING AND ANY OTHER DRAWING AND/OR SPECIFICATION, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY FOR CLARIFICATION.
5. UNLESS NOTED OTHERWISE, THE DIMENSIONS AND COORDINATES SHOWN HEREON ARE TO THE EDGE OF THE RIGID CONCRETE, EDGE OF ASPHALT, FACE OF CURB, OR OUTSIDE FACE OF BUILDINGS/STRUCTURES.
6. ALL RIGID PAVEMENT AND STONE SHALL MEET THE MATERIALS, EQUIPMENT, CONSTRUCTION, & TESTING REQUIREMENTS OF THESE DRAWINGS AND/OR THE KENTUCKY TRANSPORTATION CABINET STANDARD SPECIFICATIONS.
7. ALL SETBACKS SHALL BE IN ACCORDANCE WITH THE LOCAL ZONING ORDINANCE.
8. ALL DISTURBED PORTIONS OF THE RIGHT OF WAY SHALL BE RESTORED TO GRASS AS PER KENTUCKY DEPARTMENT OF HIGHWAYS STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION).
9. ALL PAVEMENT MARKINGS WITHIN THE DEVELOPMENT SHALL BE PAINTED. ALL PAVEMENT MARKING ON CITY OR STATE R/W SHALL CONFORM TO THE REGULATIONS OF THEIR RESPECTIVE OWNER.
10. ANY WORK WITHIN THE KYTC R/W WILL REQUIRE AN ENCROACHMENT PERMIT.

FOR REVIEW
NOT FOR
CONSTRUCTION

SITE LEGEND

= LIGHT POLES/SECURITY LIGHT – 16' TALL
BM = BENCHMARK
= PROPOSED STORM PIPE
= CONCRETE AREA
= PROPERTY LINES

0' 20' 40' 60'

VARIANCE NOTES:

1. RADCLIFF BOARD OF ADJUSTMENT APPROVED A VARIANCE ON MAY 12, 2005, OF THE 40' MINIMUM BUILDING SETBACK ALONG EAST VINE STREET TO A 15' MINIMUM BUILDING SETBACK.
2. RADCLIFF PLANING COMMISSION APPROVED A SUBDIVISION REGULATIONS WAIVER ON SEPTEMBER 3, 2020, OF THE NUMBER OF ACCESS CONNECTIONS (5.12B), CORNER CLEARANCE (5.8), AND DRIVEWAY AND SIGNAL SPACING (5.5) FOR THE PROPERTY.

Kentucky 811

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Newcomb OIL CO.

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REVISIONS:	DATE:
EDITS PER REVIEW	09/10/2020

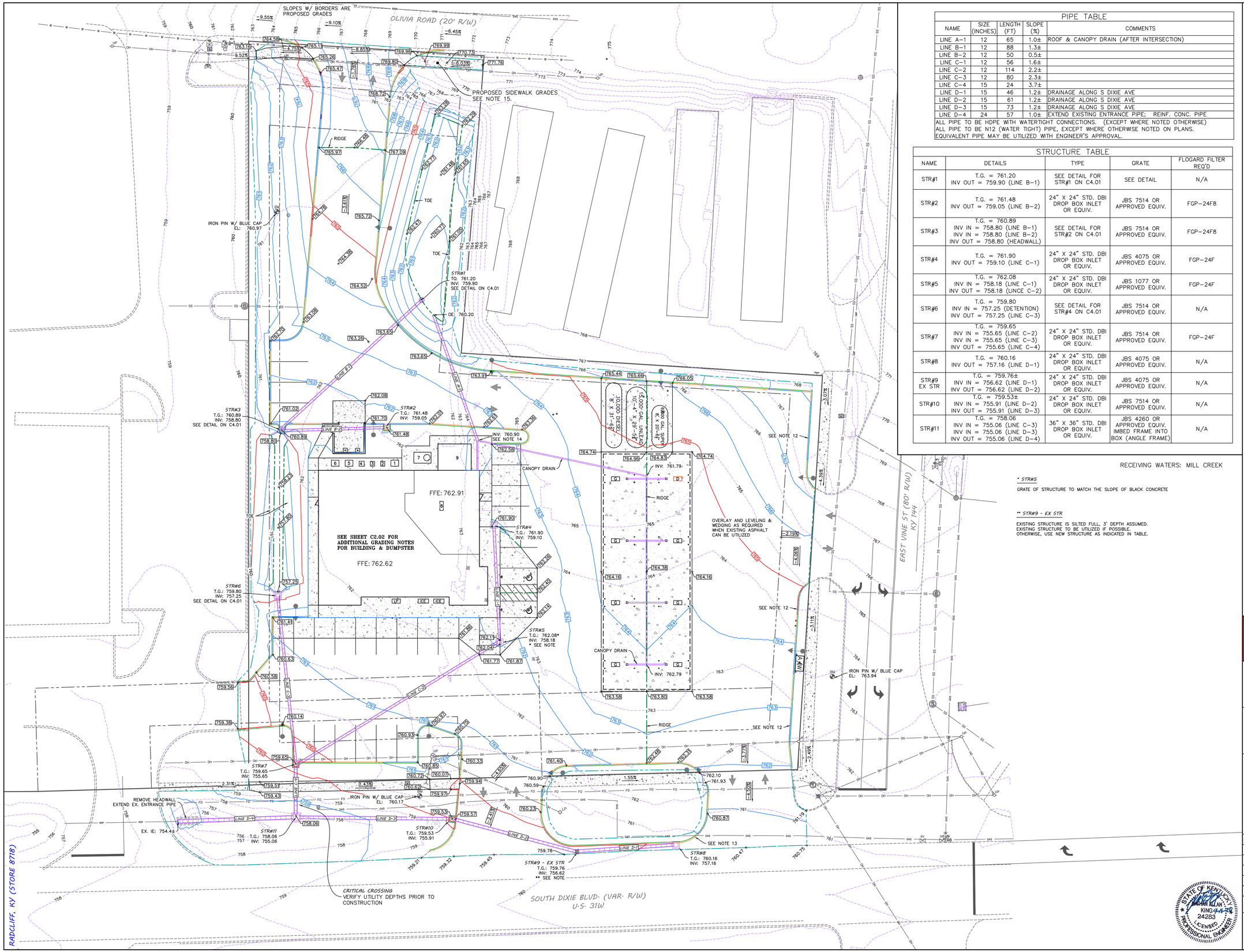
SCALE: 1" = 20' DATE: 7-18-2020

STATE OF KENTUCKY NATHAN ALLAN KING 24283 LICENSED PROFESSIONAL ENGINEER

SHEET:
PROPOSED LAYOUT C1.01

RADCLIFF, KY (STORE 8718)

RADCLIFF, KY (STORE 8718)



RECEIVING WATERS: MILL CREEK

* STR#5

GRATE OF STRUCTURE TO MATCH THE SLOPE OF BLACK CONCRETE

** STR#9 - EX STR

EXISTING STRUCTURE IS SILTED FULL, 3' DEPTH ASSUMED. EXISTING STRUCTURE TO BE UTILIZED IF POSSIBLE. OTHERWISE, USE NEW STRUCTURE AS INDICATED IN TABLE.

PIPE TABLE

NAME	SIZE (INCHES)	LENGTH (FT)	SLOPE (%)	COMMENTS
LINE A-1	12	65	1.0±	ROOF & CANOPY DRAIN (AFTER INTERSECTION)
LINE B-1	12	88	1.3±	
LINE B-2	12	50	0.5±	
LINE C-1	12	56	1.6±	
LINE C-2	12	114	2.2±	
LINE C-3	12	80	2.3±	
LINE C-4	15	24	3.7±	
LINE D-1	15	46	1.2±	DRAINAGE ALONG S DIXIE AVE
LINE D-2	15	61	1.2±	DRAINAGE ALONG S DIXIE AVE
LINE D-3	15	73	1.2±	DRAINAGE ALONG S DIXIE AVE
LINE D-4	24	57	1.0±	EXTEND EXISTING ENTRANCE PIPE; REINF. CONC. PIPE

ALL PIPE TO BE HDPE WITH WATERTIGHT CONNECTIONS. (EXCEPT WHERE NOTED OTHERWISE)
ALL PIPE TO BE N12 (WATER TIGHT) PIPE, EXCEPT WHERE OTHERWISE NOTED ON PLANS.
EQUIVALENT PIPE MAY BE UTILIZED WITH ENGINEER'S APPROVAL.

STRUCTURE TABLE

NAME	DETAILS	TYPE	GRATE	FLOGARD FILTER REQ'D
STR#1	T.G. = 761.20 INV OUT = 759.90 (LINE B-1)	SEE DETAIL FOR STR#1 ON C4.01	SEE DETAIL	N/A
STR#2	T.G. = 761.48 INV OUT = 759.05 (LINE B-2)	24" X 24" STD. DBI DROP BOX INLET OR EQUIV.	JBS 7514 OR APPROVED EQUIV.	FGP-24F8
STR#3	T.G. = 760.89 INV IN = 758.80 (LINE B-1) INV IN = 758.80 (LINE B-2) INV OUT = 758.80 (HEADWALL)	SEE DETAIL FOR STR#2 ON C4.01	JBS 7514 OR APPROVED EQUIV.	FGP-24F8
STR#4	T.G. = 761.90 INV OUT = 759.10 (LINE C-1)	24" X 24" STD. DBI DROP BOX INLET OR EQUIV.	JBS 4075 OR APPROVED EQUIV.	FGP-24F
STR#5	T.G. = 762.08 INV IN = 758.18 (LINE C-1) INV OUT = 758.18 (LINCE C-2)	24" X 24" STD. DBI DROP BOX INLET OR EQUIV.	JBS 1077 OR APPROVED EQUIV.	FGP-24F
STR#6	T.G. = 759.80 INV IN = 757.25 (DETENTION) INV OUT = 757.25 (LINE C-3)	SEE DETAIL FOR STR#4 ON C4.01	JBS 7514 OR APPROVED EQUIV.	N/A
STR#7	T.G. = 759.65 INV IN = 755.65 (LINE C-2) INV IN = 755.65 (LINE C-3) INV OUT = 755.65 (LINE C-4)	24" X 24" STD. DBI DROP BOX INLET OR EQUIV.	JBS 7514 OR APPROVED EQUIV.	FGP-24F
STR#8	T.G. = 760.16 INV OUT = 757.16 (LINE D-1)	24" X 24" STD. DBI DROP BOX INLET OR EQUIV.	JBS 4075 OR APPROVED EQUIV.	N/A
STR#9 EX STR	T.G. = 759.76± INV IN = 756.62 (LINE D-1) INV OUT = 756.62 (LINE D-2)	24" X 24" STD. DBI DROP BOX INLET OR EQUIV.	JBS 4075 OR APPROVED EQUIV.	N/A
STR#10	T.G. = 759.53± INV IN = 755.91 (LINE D-2) INV OUT = 755.91 (LINE D-3)	24" X 24" STD. DBI DROP BOX INLET OR EQUIV.	JBS 7514 OR APPROVED EQUIV.	N/A
STR#11	T.G. = 758.06 INV IN = 755.06 (LINE C-3) INV IN = 755.06 (LINE D-3) INV OUT = 755.06 (LINE D-4)	36" X 36" STD. DBI DROP BOX INLET OR EQUIV.	JBS 4260 OR APPROVED EQUIV. IMBED FRAME INTO BOX (ANGLE FRAME)	N/A

NOTES:

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2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DRAINAGE AND UTILITY CONNECTIONS TO ENSURE THEY CAN BE PROPERLY CONNECTED.
3. NO DISTURBANCE TO THE NATURAL GROUND SHALL TAKE PLACE PRIOR TO HAVING THE PROPOSED EROSION CONTROL PLAN APPROVED AND IN PLACE.
4. IN THE EVENT OF A CONFLICT BETWEEN THIS DRAWING AND ANY OTHER DRAWING AND/OR SPECIFICATION, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY FOR CLARIFICATION.
5. UNLESS NOTED OTHERWISE, THE SPOT ELEVATIONS SHOWN ARE TO THE BOTTOM FACE OF CURB OR SIDEWALK.
6. THE AGGREGATE BASE & ASPHALT COURSES SHALL MEET THE MATERIALS, EQUIPMENT, CONSTRUCTION, & TESTING REQUIREMENTS OF THESE DRAWINGS AND THE CURRENT EDITION OF THE KENTUCKY TRANSPORTATION CABINET STANDARD SPECIFICATIONS.
7. ALL SETBACKS SHALL BE IN ACCORDANCE WITH THE LOCAL ZONING ORDINANCE.
8. THE LOCATIONS OF THE EXISTING UTILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE. THE EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD BY COORDINATING WITH THE RESPECTIVE UTILITY COMPANIES INVOLVED. PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD THE EXISTING UTILITIES FROM DAMAGE DURING THE CONSTRUCTION OF THIS PROJECT.
9. THE CONTRACTOR SHALL VERIFY POSITIVE FLOW FOR ALL STORM SEWER PIPE. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
10. ALL DISTURBED AREAS OUTSIDE THE PROJECT LIMITS, INCLUDING ADJOINING PROPERTIES AND/OR RIGHT-OF-WAY SHALL BE REPAIRED, SEEDED, AND STRAWED.
11. ALL CURB STOPS AND CURB CUTS ABUTTING TRAVELED WAYS SHALL TAPER TO ASPHALT GRADE AT A MIN. 4:1 SLOPE.
12. CURB ELEVATION DEPENDENT ON EXISTING ASPHALT ELEVATION. FINAL ELEVATION OF CURB TO BE 6 INCHES ABOVE FINAL GRADE AND SHOULD ALLOW FOR OVERLAY OF EXISTING ASPHALT OR MILLING/SURFACE COURSE.
13. ELEVATIONS OF CURB ALONG S DIXIE BLVD TO MATCH EXISTING ROADWAY ELEVATIONS.
14. VERIFY POSITIVE FLOW FROM SURROUNDING ROOF DRAINS FOR BUILDING TO THIS INVERT. CONTACT HENRY GREENWELL WITH NEWCOMB OIL COMPANY FOR PIPE ELEVATIONS ALONG FOOTER.
15. THE SIDEWALK ALONG OLIVIA ROAD SHALL BE BUILT IN ACCORDANCE WITH THE UNITED STATES ACCESS BOARD REGULATION SECTION X02.1.5, THEREBY CONSTRUCTING THE SIDEWALK AT THE SAME, OR LESS GRADE, OF OLIVIA ROAD.

SITE LEGEND

- BM = BENCHMARK
- +690.00 = PROPOSED GRADE SPOT SHOT
- +690.00 = INDICATES TOP OF CURB/SIDEWALK
- +690.00 = EXISTING GRADE SPOT SHOT
- = PROPOSED STORM PIPE
- = CONCRETE AREA
- = PROPERTY LINES
- 690 = EXISTING CONTOURS
- 690 = PROPOSED CONTOURS
- = DISTURB LIMITS

0' 20' 40' 60'

Kentucky 811

FIVESTAR. Newcomb OIL CO.

FIVESTAR DEVELOPMENT PLAN
639 SOUTH DIXIE BOULEVARD
RADCLIFF, KY 40160

NEWCOMB OIL CO., LLC
951 WITHROW CT.
BARDSTOWN, KY 40004

KWM ENGINEERING & LAND SURVEYING

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MOBILE: (270) 590-4603
nathan@mykwm.net

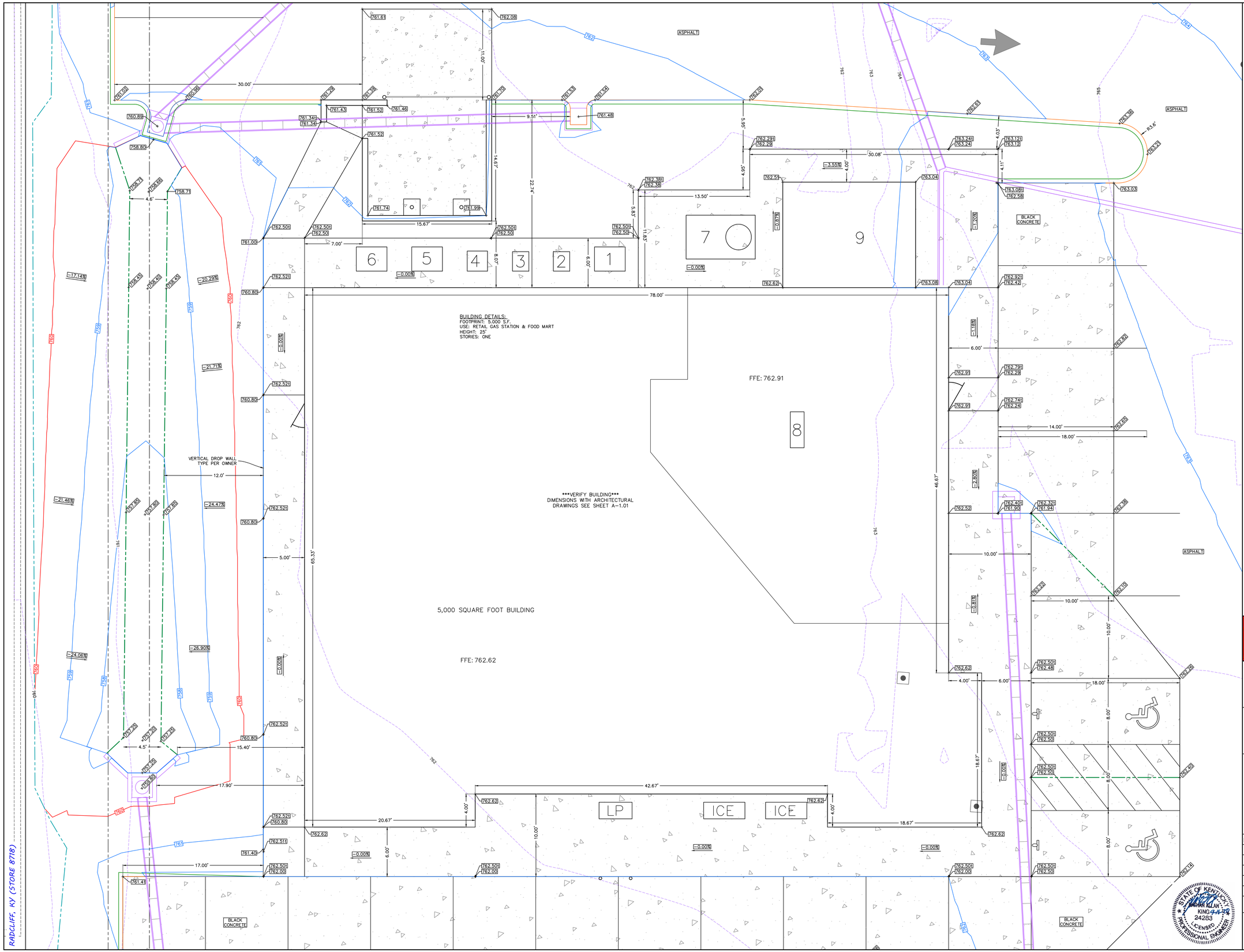
REVISIONS:	DATE:
EDITS PER REVIEW	09/10/2020

SCALE: 1" = 20' DATE: 7-18-2020

STATE OF KENTUCKY NATHAN ALLAN KING 24283 LICENSED PROFESSIONAL ENGINEER 9-10-20

SHEET: PROPOSED GRADE & DRAIN

C2.01



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- 690 = PROPOSED CONTOURS
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0' 10' 20' 30'

Kentucky 811

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REVISIONS:	DATE:
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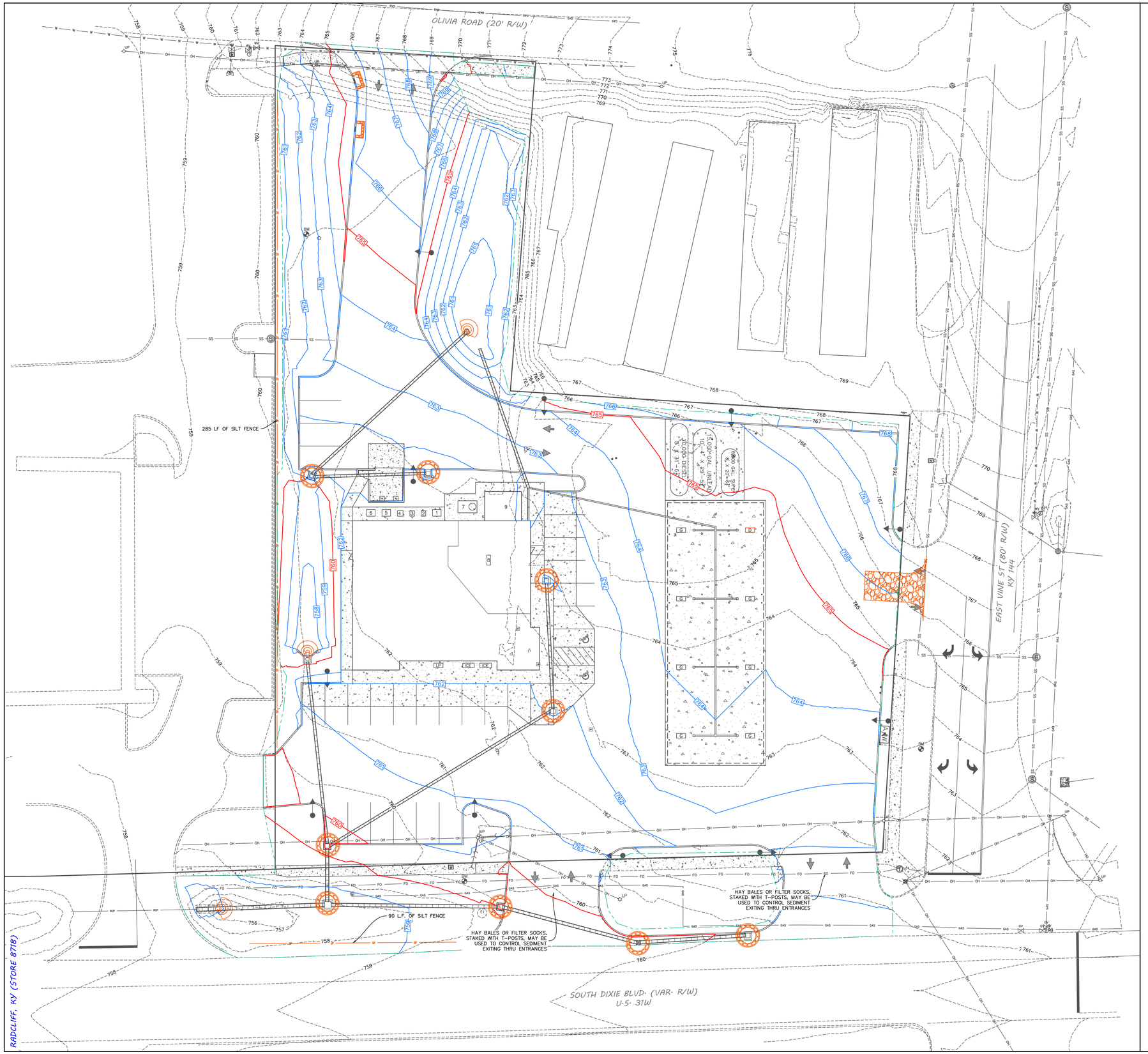
SHEET: ADDITIONAL DIMENSIONS & GRADING DETAILS

C2.02



BEST MANAGEMENT PRACTICES:

1. IT IS THE INTENTION OF THIS PLAN TO EFFECTIVELY CONTROL EROSION OF DISTURBED SOILS. HOWEVER NO PLAN CAN BE MADE THAT DETAILS ALL POSSIBLE CONTROL MEASURES THROUGHOUT CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MINIMIZE ALL EROSION USING THESE MEASURES AS WELL AS ANY ADDITIONAL MEASURES REQUIRED TO CONTROL RUNOFF.
2. THE CONTRACTOR IS TO TAKE IMMEDIATE ACTION TO CLEAN UP SPILLS OF ILLICIT MATERIAL AND MUST MAINTAIN OIL AND GREASE ABSORBING MATERIALS ON-SITE. RUBBISH, TRASH, GARBAGE, LITTER, ETC. ARE TO BE DEPOSITED IN SEALED CONTAINERS. THE CONTRACTOR IS TO CONTROL DUST FROM THE SITE. IF CONCRETE TRUCKS WASH OUT ON SITE, THE WASH WATER SHALL BE PLACED IN AN AREA WHERE IT CAN NOT MAKE ITS OFF SITE.
3. CONTRACTOR SHALL SECURE THE K.P.D.E.S NOTIFICATION OF COVERAGE PRIOR TO LAND DISTURBING ACTIVITIES. THE NOI MUST BE SUBMITTED AS REQUIRED BY THE KENTUCKY DIVISION OF WATER (KDOW)
4. THE CONTRACTOR IS TO KEEP A SIGNED AND SEALED EROSION CONTROL PLAN ON SITE AND MAKE IT AVAILABLE TO INSPECTORS AS REQUIRED.
5. ANY DEVIATIONS FROM THIS PLAN SHALL BE MARKED ON SAME WITH AN EXPLANATION OF WHY IT WAS NEEDED.
6. IF A SPILL OF AN ILLICIT MATERIAL ENTER A WATERWAY OR STORM SEWER, CONTACT THE KDOW 502-564-2380.

EROSION CONTROL LEGEND

SEE SHEET C4.02 FOR DETAILS

- = SILT FENCE
- = CATCH BASIN INLET PROTECTION
- = CURB CUT PROTECTION
- = INLET PROTECTION
- = CONSTRUCTION ENTRANCE
- 690 = EXISTING CONTOURS
- 690 = PROPOSED CONTOURS
- = DISTURB LIMITS

EROSION CONTROL NOTES:

1. AS A MINIMUM, ALL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO THE LOCAL STORMWATER ORDINANCES, AND AS REQUIRED BY STATE AND FEDERAL LAWS.
2. A COPY OF THE APPROVED EROSION PREVENTION AND SEDIMENT CONTROL PLANS SHALL BE MAINTAINED AT THE PROJECT SITE AT ALL TIMES. THIS COPY SHALL BE PRESENTED TO THE LOCAL AND STATE REGULATORY REPRESENTATIVES UPON REQUEST.
3. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN CLEARING AND GRUBBING AS NEEDED TO CONTROL SEDIMENT LEAVING THE SITE. THE CONTRACTOR HAS THE ABILITY TO ALTER THE PLAN SHOWN HEREON BASED ON PHASING AND CONSTRUCTION PRACTICES. THE CONTRACTOR IS RESPONSIBLE FOR ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENT FROM LEAVING THE SITE.
4. TEMPORARY SEDIMENT TRAPS WITH ROCK OR EARTHEN DIKES OR OTHER APPROVED CONTROLS SHALL BE INSTALLED DOWNGRADIENT OF HEAVILY ERODED AREAS AS NEEDED TO PREVENT SEDIMENT FROM LEAVING THE SITE.
5. ACTIONS MUST BE TAKEN TO MINIMIZE THE TRACKING OF MUD, SOIL, AND ROCK FROM CONSTRUCTION AREAS ONTO PUBLIC ROADWAYS. SOIL AND ROCK TRACKED ONTO THE ROADWAY SHALL BE REMOVED DAILY.
6. SOIL STOCKPILES SHALL BE LOCATED AWAY FROM STREAMS, PONDS, SWALES AND CATCH BASINS. STOCKPILES SHALL BE SEEDED, MULCHED, AND ADEQUATELY CONTAINED THROUGH THE USE OF SILT FENCE.
7. GOOD HOUSEKEEPING PRACTICES SHALL BE APPLIED TO PREVENT CONTAMINATED RUNOFF OR OTHER IMPACTS FROM PAINT OR CONCRETE WASTES, FUELS AND OILS, TRASH AND LITTER, OR OTHER MATERIALS.
8. GOOD HOUSEKEEPING PRACTICES SHALL BE APPLIED TO PREVENT CONTAMINATED RUNOFF OR OTHER IMPACTS FROM PAINT OR CONCRETE WASTES, FUELS AND OILS, TRASH AND LITTER, OR OTHER MATERIALS.
9. ALL BARE SOIL AREAS NOT SUBJECT TO ACTIVE CLEARING, EXCAVATION, GRADING, OR FILL ACTIVITIES SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT SEEDING AND/OR MULCHING WITHIN 14 DAYS IF NO WORK IS PLANNED IN THAT AREA DURING THE NEXT WEEK.
10. SILT FENCES, DITCH CHECKS, NON-PERMANENT SEDIMENT TRAPS, AND OTHER TEMPORARY CONTROLS SHALL BE REMOVED AFTER VEGETATION IN UPGRADIENT AREAS IS ESTABLISHED AND DITCHES ARE STABLE.
11. THE CONTRACTOR SHALL INSPECT ALL EROSION AND SEDIMENT CONTROL DEVICES AT LEAST ONCE A WEEK AND AT LEAST ONCE A DAY DURING RAINFALL EVENTS. THE CONTRACTOR SHALL PERFORM ANY REPAIRS OR MAINTENANCE IMMEDIATELY IN ORDER TO ENSURE EFFECTIVE EROSION AND SEDIMENT CONTROL.
12. THE CONTRACTOR SHALL MAINTAIN A RECORD OF ALL INSPECTIONS AND MAINTENANCE ACTIVITIES AT THE PROJECT SITE. THIS RECORD SHALL BE MADE AVAILABLE TO THE LOCAL CITY OFFICIALS UPON REQUEST.
13. OFFSITE WASTE AREAS SHALL BE PROTECTED WITH SILT FENCE AND/OR SEEDED AND MULCHED TO PREVENT EROSION.

FOR REVIEW
NOT FOR
CONSTRUCTION

0' 20' 40' 60'

RADCLIFF, KY (STORE 8718)

Kentucky 811

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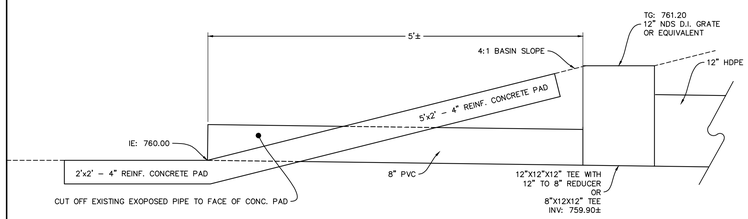
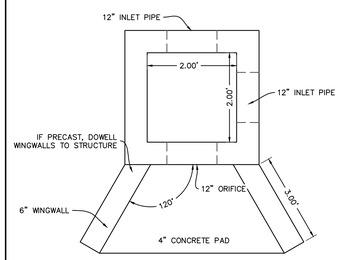
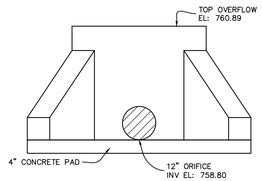
STATE OF KENTUCKY NATHAN ALLAN KING 24283 LICENSED PROFESSIONAL ENGINEER 9-14-20

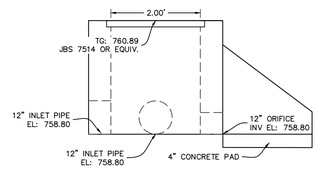
SHEET:
EROSION & SEDIMENT CONTROL PLAN C3.01



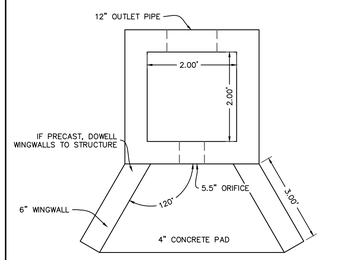
STRUCTURE #1
DETENTION BASIN OUTLET

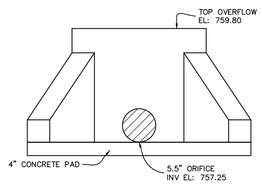


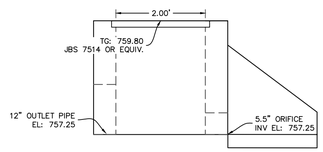




STRUCTURE #3
DETENTION BASIN INLET



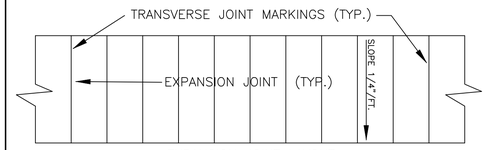




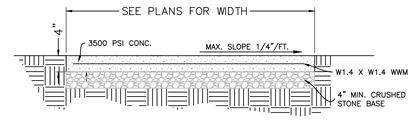
STRUCTURE #6
DETENTION BASIN OUTLET

NOTES:

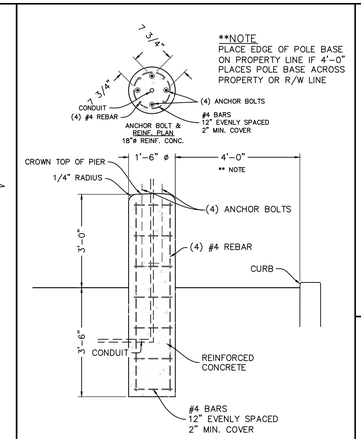
1. PROVIDE 1/2" EXP. JOINT BETWEEN ALL FIXED OBJECTS AND WALK.
2. PROVIDE TANSVERSE CONTRACTION JOINTS EVERY 6'.
3. PROVIDE EXP. JOINTS (1/2") AT INTERSECTIONS OF DIFFERENT WALKS AND EVERY 30' O.C. ON STRAIGHT RUNS.
4. PROVIDE EXP. JOINTS A MINIMUM OF 5 FT. FROM INLET STRUCTURES.



EXPANSION JOINT LAYOUT

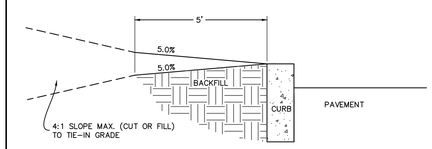


SW C4.01 CONCRETE SIDEWALK
N.T.S.

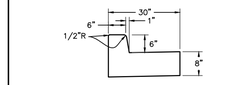


**NOTE
PLACE EDGE OF POLE BASE ON PROPERTY LINE IF 4'-0" PLACES POLE BASE ACROSS PROPERTY OR R/W LINE

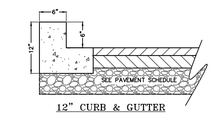
LIGHT POLE BASE DETAIL
N.T.S.



CURB BACKFILL DETAIL
N.T.S. (UNLESS OTHERWISE NOTED ON PLANS)



CG C4.01 CURB AND GUTTER
N.T.S.



12" CURB & GUTTER

CU C4.01 CURB DETAIL
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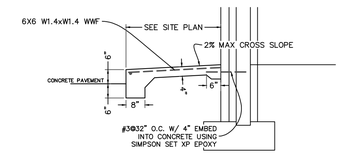

TDS C4.01 TURNDOWN SIDEWALK DETAIL
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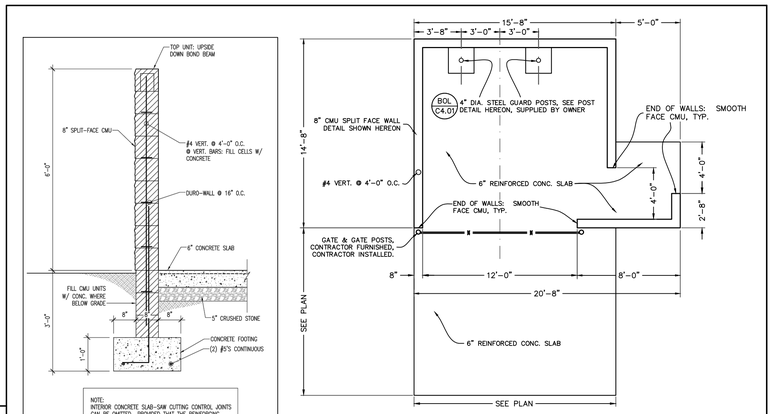

DUMP C4.01 DUMPSTER DETAIL
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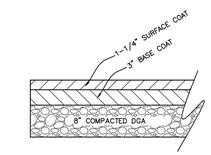
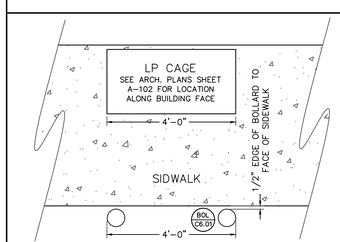
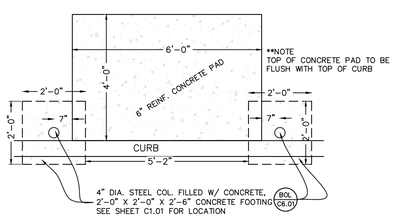


ASPHALT
PAVEMENT SCHEDULE
FOR PRIVATE PAVED AREAS

FOR REVIEW
NOT FOR
CONSTRUCTION



LP C4.01 LP CAGE DETAIL
N.T.S.



A/W C4.01 AIR & WATER CONC. PAD
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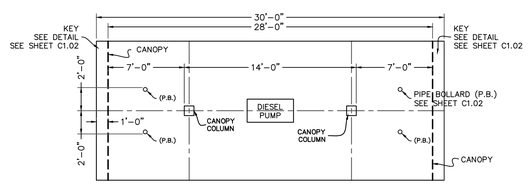
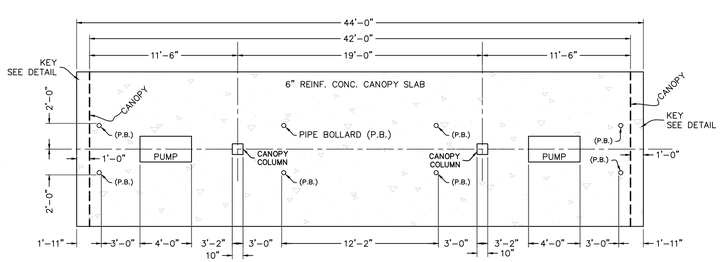


DISL C4.01 DIESEL PUMP ISLAND PLAN SECTION
N.T.S.



ISL C4.01 PUMP ISLAND PLAN SECTION
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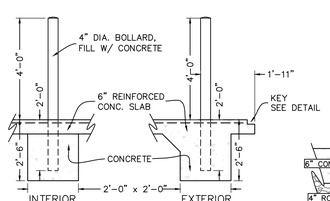
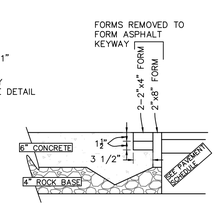
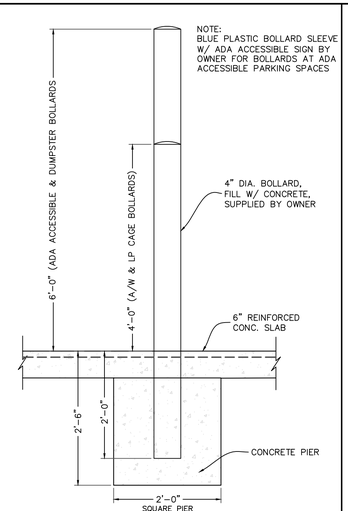


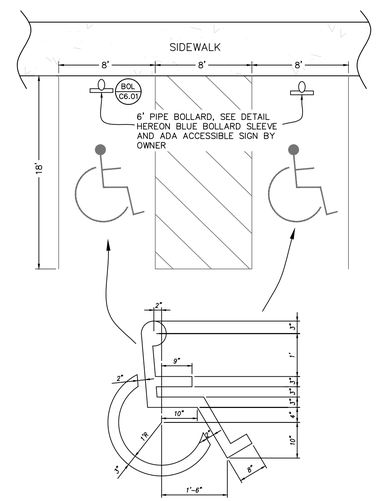
PUMP ISLAND GUARD POSTS



KEY DETAIL



BOL C4.01 PIPE BOLLARD DETAIL
N.T.S.



HC C4.01 ADA ACCESSIBLE SPACE DETAIL
N.T.S.

STATE OF KENTUCKY
NATHAN ALLAN KING
24283
LICENSED
PROFESSIONAL ENGINEER

Kentucky 811

FIVESTAR

Newcomb OIL CO.

FIVESTAR DEVELOPMENT PLAN
639 SOUTH DIXIE BOULEVARD
RADCLIFF, KY 40160

NEWCOMB OIL CO., LLC
951 WITHROW CT.
BARDSTOWN, KY 40004

KWM ENGINEERING & LAND SURVEYING

LEBANON OFFICE:
335 N. WOODLAWN AVE.
LEBANON, KY 40033

NATHAN ALLAN KING
P.E. #24283 P.L.S. #3831
BUSINESS: (270) 692-0089
MOBILE: (270) 590-4603
nathan@mykwm.net

REVISIONS:	DATE:
EDITS PER REVIEW	09/10/2020

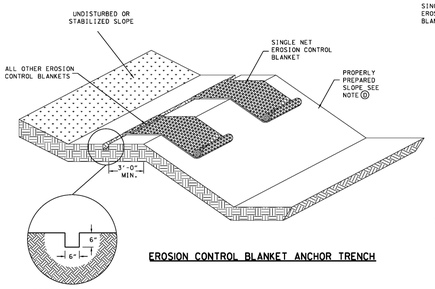
NOT TO SCALE — DATE: 7-18-2020

SHEET: LAYOUT DETAILS

C4.01

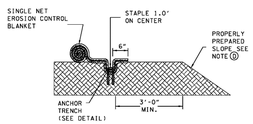
RADCLIFF, KY (STORE 8718)

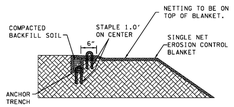
RADCLIFF, KY (STORE 8718)



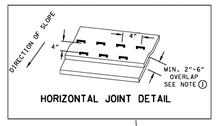
EROSION CONTROL BLANKET ANCHOR TRENCH

TRENCH DETAIL

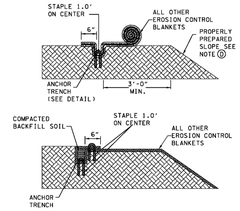




ANCHOR TRENCH DETAILS
SINGLE NET EROSION CONTROL BLANKETS

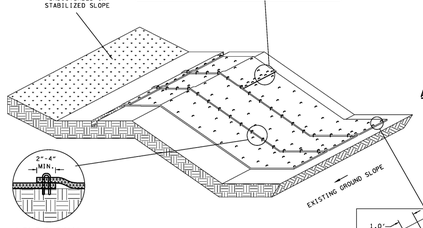


HORIZONTAL JOINT DETAIL

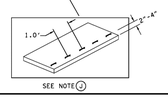


ANCHOR TRENCH DETAILS
ALL OTHER EROSION CONTROL BLANKETS

N.T.S.



LONGITUDINAL JOINT DETAIL



EROSION CONTROL BLANKET STAPLE DETAILS
(USE MANUFACTURER'S RECOMMENDED STAPLE PATTERN)

EROSION CONTROL BLANKET SLOPE INSTALLATION GENERAL NOTES

Ⓐ EROSION CONTROL BLANKETS ARE INTENDED TO BE USED AS AN IMMEDIATE MULCH COVER FOR DISTURBED SLOPES THAT HAVE BEEN TEMPORARILY OR PERMANENTLY SEEDED.

Ⓑ EROSION CONTROL BLANKETS MAY ALSO BE USED AS CHANNEL LINERS WHERE THE ANTICIPATED MAXIMUM SHEAR STRESS IS LOW. REFER TO EC-STR-36 FOR INSTALLATION DETAILS.

Ⓒ EROSION CONTROL BLANKETS SHALL BE INSTALLED ACCORDING TO MANUFACTURERS SPECIFICATIONS. WHEN NOT AVAILABLE, INSTALL ACCORDING TO NOTES D THRU J.

Ⓓ STEP ONE: SITE PREPARATION
THE SITE SHOULD BE FINE GRADED TO A SMOOTH PROFILE AND RELATIVELY FREE FROM ALL WEEDS, CLODS, STONES, ROOTS, STICKS, RIVULETS, GULLIES, CRUSTING AND CAKING. FILL ANY VOIDS AND MAKE SURE THE SLOPE IS COMPACTED PROPERLY.

Ⓔ STEP TWO: SEEDING
SEEDING WITHOUT MULCH SHOULD BE APPLIED TO THE AREA TO BE VEGETATED.

Ⓕ STEP THREE: PREPARE THE ANCHOR TRENCH
AT THE TOP OF THE SLOPE EXCAVATE AN ANCHOR TRENCH 6 INCHES DEEP BY 6 INCHES WIDE. THE EROSION CONTROL BLANKET WILL BE ANCHORED INTO THE TRENCH BY STAPLES. ALLOW A MINIMUM OF 3 FEET FROM THE CREST OF THE SLOPE TO THE ANCHOR TRENCH.

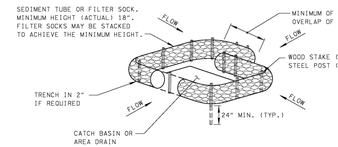
Ⓖ STEP FOUR: SECURE THE EROSION CONTROL BLANKET IN THE ANCHOR TRENCH
BEGIN EROSION CONTROL BLANKET PLACEMENT 30 INCHES ABOVE THE ANCHOR TRENCH. RUN THE EROSION CONTROL BLANKET INTO THE ANCHOR TRENCH. ANCHOR THE EROSION CONTROL BLANKET WITH STAPLES ONE FOOT ON CENTER IN THE ANCHOR TRENCH. BE SURE TO DRIVE STAPLES OR STAKES FLUSH WITH THE SOIL SURFACE. BACKFILL THE ANCHOR TRENCH AND COMPACT THE SOIL. PLACE SEED OVER THE COMPACTED SOIL. COVER THE COMPACTED SOIL WITH THE REMAINING 12 INCHES OF THE TERMINAL END OF THE EROSION CONTROL BLANKET. STAPLE OR STAKE TERMINAL END DOWN SLOPE OF THE ANCHOR TRENCH ON ONE FOOT CENTERS.

Ⓗ STEP FIVE: EROSION CONTROL BLANKET DEPLOYMENT
STARTING AT THE CREST OF THE SLOPE, ROLL THE EROSION CONTROL BLANKET DOWN THE SLOPE IN A CONTROLLED MANNER. APPROXIMATELY EVERY 20-25 FEET PULL THE EROSION CONTROL BLANKET TO TAKE OUT ANY EXCESS SLACK. THE GOAL IS TO HAVE THE EROSION CONTROL BLANKET CONTOUR AND INITIATE CONTACT WITH THE SOIL.

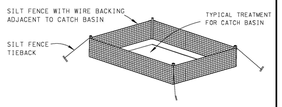
Ⓘ STEP SIX: STAPLE OR STAKE THE EROSION CONTROL BLANKET
SECURE THE OVERLAP OR THE EDGES WITH STAPLES. THE TYPICAL INSTALLATION WILL REQUIRE ONE STAPLE PLACED AT THREE TO FIVE FEET INTERVALS ALONG THE VERTICAL LENGTH OF THE EROSION CONTROL BLANKET. STAPLES SHOULD BE STAGGERED EVERY 18 TO 24 INCHES HORIZONTALLY ACROSS THE EROSION CONTROL BLANKET. IF THE EROSION CONTROL BLANKET NEEDS TO BE SPLICED IN THE MIDDLE OF A SLOPE BE SURE THE EROSION CONTROL BLANKET IS "SHINGLED" WITH UP-SLOPE EROSION CONTROL BLANKET OVERLAPPING THE DOWN-SLOPE EROSION CONTROL BLANKET. THERE SHOULD BE A MINIMUM OF 4-INCHES OF OVERLAP IN A SPLICE. USE A STAPLE CHECK SLOT TO SECURE THE OVERLAP. A STAPLE CHECK SLOT IS MADE BY PLACING A ROW OF STAPLES 4-INCHES ON CENTER AND THEN PLACING A SECOND ROW OF STAPLES 4-INCHES ON CENTER, STAGGERED FROM THE FIRST ROW.

Ⓙ STEP SEVEN: SECURING THE EROSION CONTROL BLANKET AT THE TOE OF SLOPE
ROLL THE EROSION CONTROL BLANKET 24-INCHES PAST THE TOE OF THE SLOPE. STAPLE OR STAKE TERMINAL END OF THE EROSION CONTROL BLANKET ON ONE FOOT CENTERS.

CATCH BASIN PROTECTION (TYPE D)

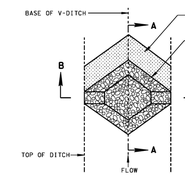


CATCH BASIN PROTECTION (TYPE E)

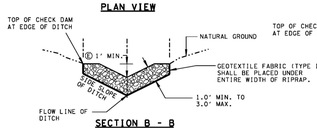


CATCH BASIN INLET PROTECTION
N.T.S.

DETAIL FOR V-DITCH

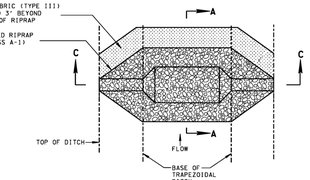


PLAN VIEW

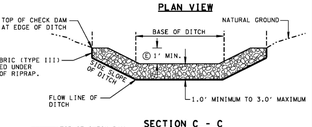


SECTION B - B

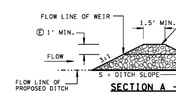
DETAIL FOR TRAPEZOIDAL DITCH



PLAN VIEW



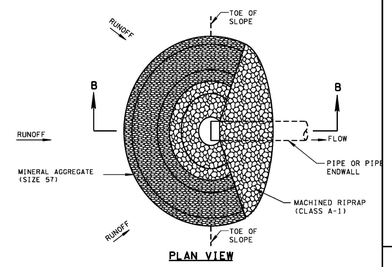
SECTION C - C



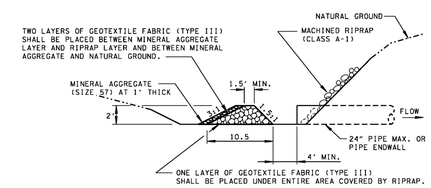
SECTION A - A

CKD ROCK CHECK DAM
N.T.S.

DETAIL FOR 18" TO 24" PIPE SIZE

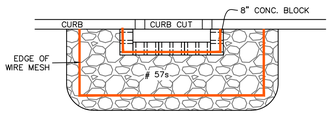


PLAN VIEW

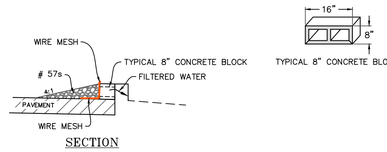


SECTION B - B

INLET PROTECTION
N.T.S.

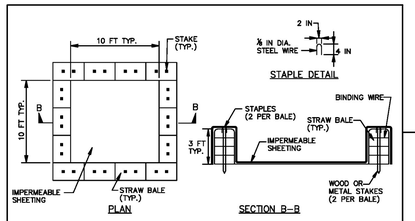


PLAN



SECTION

CURB CUT PROTECTION
N.T.S.
NOTE: FOR USE AFTER CURB IS INSTALLED. OR FILTER SOCK MAY BE USED.

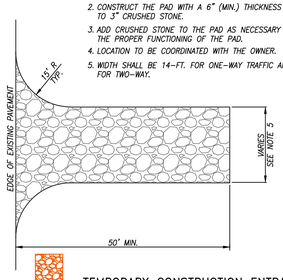


NOTE: CAN BE TWO STACKED BALES OR PARTIALLY EXCAVATED TO REACH 3 FT DEPTH

WASHOUT STRUCTURE WITH STRAW BALES

NOTES:

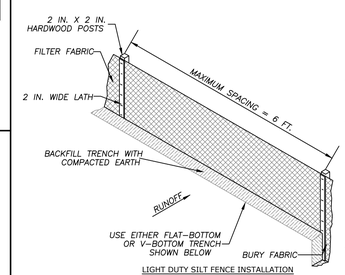
1. *THE PURPOSE OF THE STABILIZED CONSTRUCTION ENTRANCE IS TO AID THE CONTRACTOR IN ELIMINATING TRACKING OF SILT ONTO PUBLIC STREETS. THIS DETAIL DOES NOT LIMIT THIS RESPONSIBILITY. OTHER METHODS OF SEDIMENT REMOVAL SHALL BE IMPLEMENTED IF THIS DOES NOT ADEQUATELY REMOVE THE SILT.*
2. *CONSTRUCT THE PAD WITH A 6" (MIN.) THICKNESS OF 2" TO 3" CRUSHED STONE.*
3. *ADD CRUSHED STONE TO THE PAD AS NECESSARY TO MAINTAIN THE PROPER FUNCTIONING OF THE PAD.*
4. *LOCATION TO BE COORDINATED WITH THE OWNER.*
5. *WIDTH SHALL BE 14-FT. FOR ONE-WAY TRAFFIC AND 20-FT. FOR TWO-WAY.*



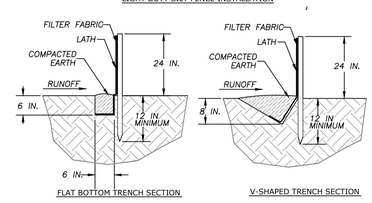
TEMPORARY CONSTRUCTION ENTRANCE
N.T.S.

MATERIAL SPECIFICATION

SPECIFICATION	LIGHT DUTY SILT FENCE (SF-LD)
MIN. TENSILE STRENGTH (LBS) ASTM D-4632	WARP -120 FILL - 100
MAX. ELONGATION (%) ASTM D-4632	40
APPARENT OPENING SIZE MAX. SIEVE SIZE (ASTM D-4751)	#30
MAX. FLOW RATE (GAL/MIN/SF) ASTM D-4491	25
ULTRAVIOLENT STABILITY ASTM D-4632 AFTER 300 HOURS PER ASTM D-4355	80
MIN. BURSTING STRESS (PSI) ASTM D-3786	WARP -120 FILL - 100
MIN. FABRIC WIDTH (IN)	36 IN.



LIGHT DUTY SILT FENCE INSTALLATION



FLAT BOTTOM TRENCH SECTION

V-SHAPED TRENCH SECTION

TEMPORARY SILT FENCE
N.T.S.
SF

FOR REVIEW
NOT FOR
CONSTRUCTION

STATE OF KENTUCKY NATHAN ALLAN KING 24283 LICENSED PROFESSIONAL ENGINEER

Kentucky811

FIVESTAR | Newcomb OIL CO.

FIVESTAR DEVELOPMENT PLAN
639 SOUTH DIXIE BOULEVARD
RADCLIFF, KY 40160

NEWCOMB OIL CO., LLC
951 WITHROW CT.
BARDSTOWN, KY 40004

KWM ENGINEERING & LAND SURVEYING

LEBANON OFFICE:
335 N. WOODLAWN AVE.
LEBANON, KY 40033

NATHAN ALLAN KING
P.E. #24283 P.L.S. #3831
BUSINESS: (270) 692-0089
MOBILE: (270) 590-4603
nathan@mykwm.net

REVISIONS:	DATE:
EDITS PER REVIEW	09/10/2020

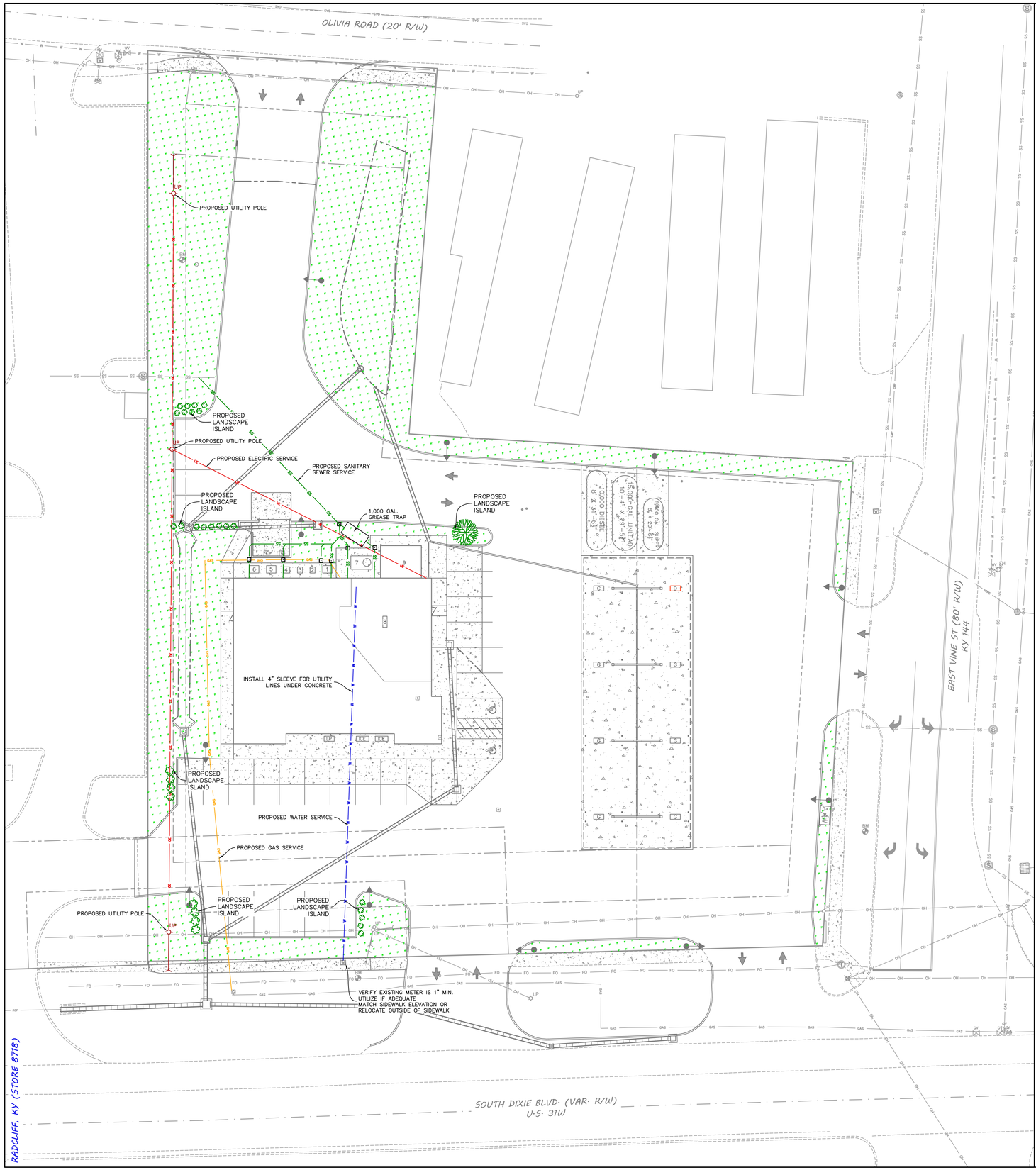
NOT TO SCALE — DATE: 7-18-2020

SHEET:
EROSION CONTROL DETAILS

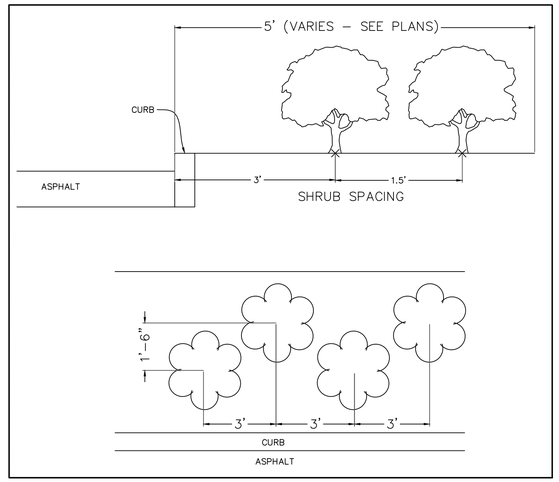
C4.02

RADCLIFF, KY (STORE 8718)

RADCLIFF, KY (STORE 8718)



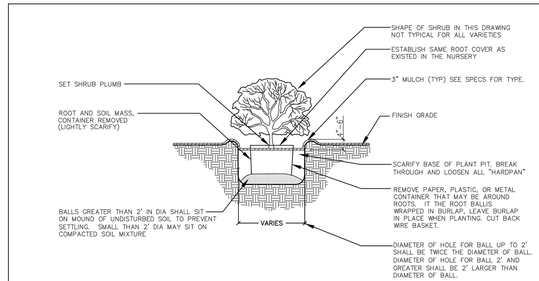
PLANT SCHEDULE:	
TREES	
	MIXTURE OF DWARF WHITE OAKS (QUERCUS ALBA) AND DWARF RED OAKS (QUERCUS RUBRA)
	REDBUDS (CERCIS CANADENSIS)
SHRUBS	
	BUMALDA SPIREA (SPIRAEA X BUMALDA)
GROUNDCOVERS	
	GRASS OF THE FESCUS (GRAMINEAK) OR BLUEGRASS (POACEAE) FAMILY. ALL LANDSCAPE AREAS TO HAVE A MINIMUM 6" TOPSOIL BACKFILL.



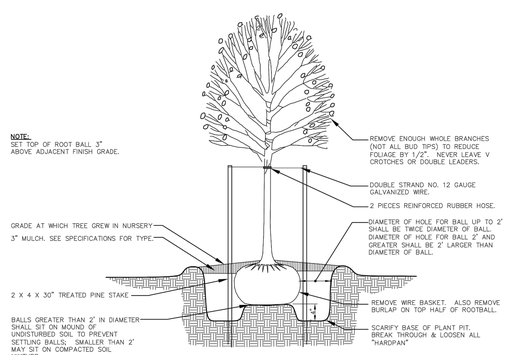
NOTES:

IMPERVIOUS AREA: 1.20 Ac.
GRASS COVER: 0.43 Ac.
TOTAL LOT: 1.63 AC.
% COVERAGE: 73.6%

FOR REVIEW
NOT FOR
CONSTRUCTION



2 / L-2 SHRUB PLANTING — 15" MINIMUM PLANTING HEIGHT
NOT TO SCALE — 36" MATURE PLANT HEIGHT



3 / L-2 TREE PLANTING — MINIMUM HEIGHT OF 4' AT PLANTING
NOT TO SCALE — MATURE HEIGHT OF 30 FEET

0' 20' 40' 60'

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REVISIONS:	DATE:
EDITS PER REVIEW	09/10/2020

SCALE: 1" = 20' — DATE: 7-18-2020

SHEET:
UTILITY LAYOUT & LANDSCAPE PLAN
C5.01

RADCLIFF, KY (STORE 8718)