

CONSTRUCTION PLANS FOR:
FiveStar #4455
NEW BUILDING CONSTRUCTION
US HWY 231 SOUTH AT KY-69
HARTFORD, KY

August 8, 2023

CERTIFICATE OF OWNERSHIP
 I (WE) DO HEREBY CERTIFY THAT I AM (WE ARE) THE ONLY OWNER(S) OF THE
 PROPERTY SHOWN HEREON, AND DO ADOPT THIS AS MY (OUR) FINAL
 DEVELOPMENT PLAN FOR THE PROPERTY.

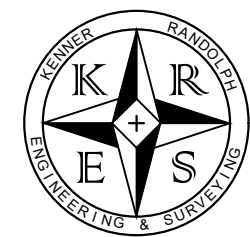
DATE _____

OWNER _____

OWNER _____



CIVIL ENGINEER:
KENNER RANDOLPH
ENGINEERING & SURVEYING
 199 NORTH OWEN STREET
 RUSSELLVILLE, KY 42276
 270-717-1131

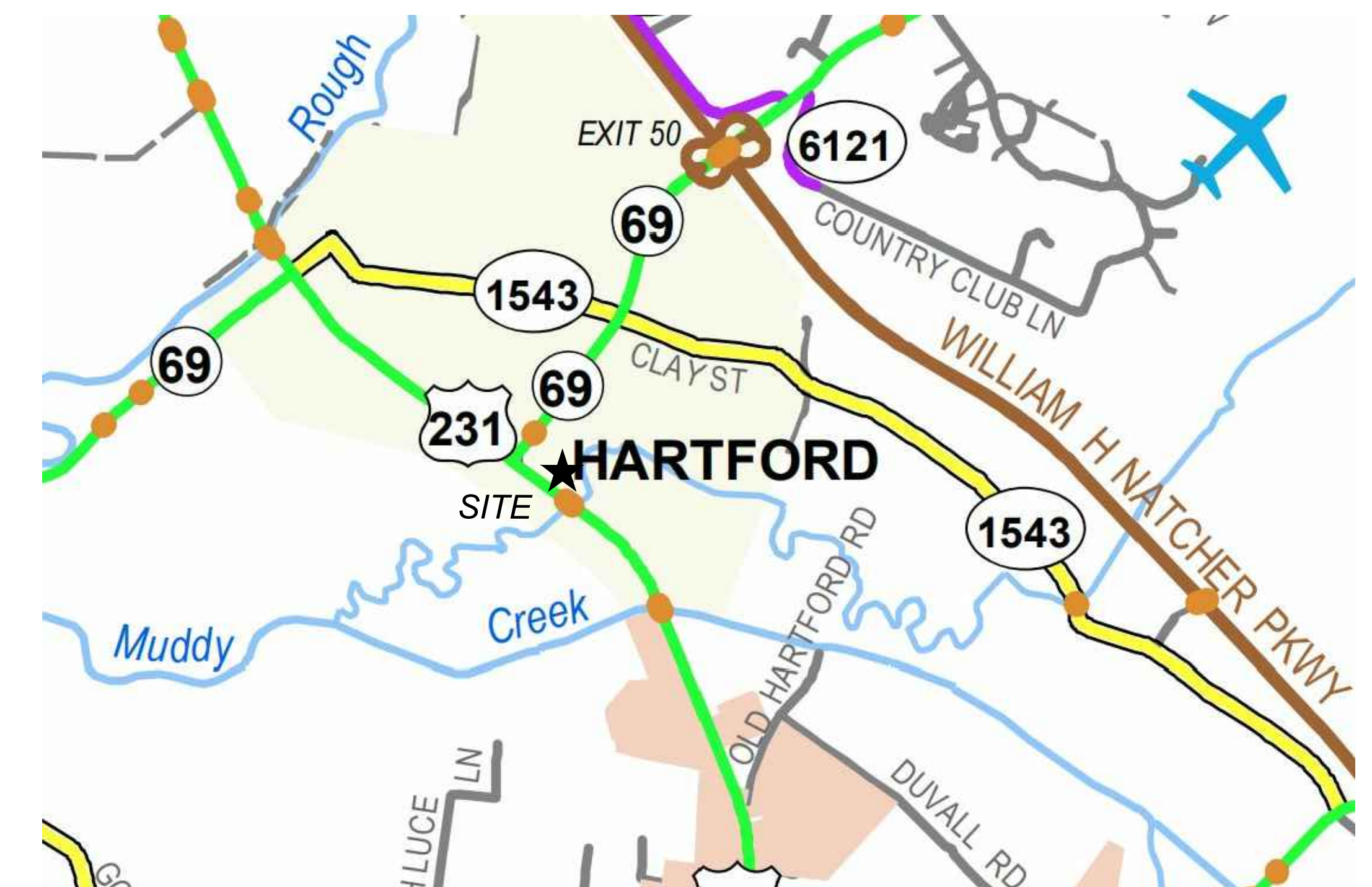


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C2.3	ENLARGED GRADING PLAN
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C3.1	DETAILS

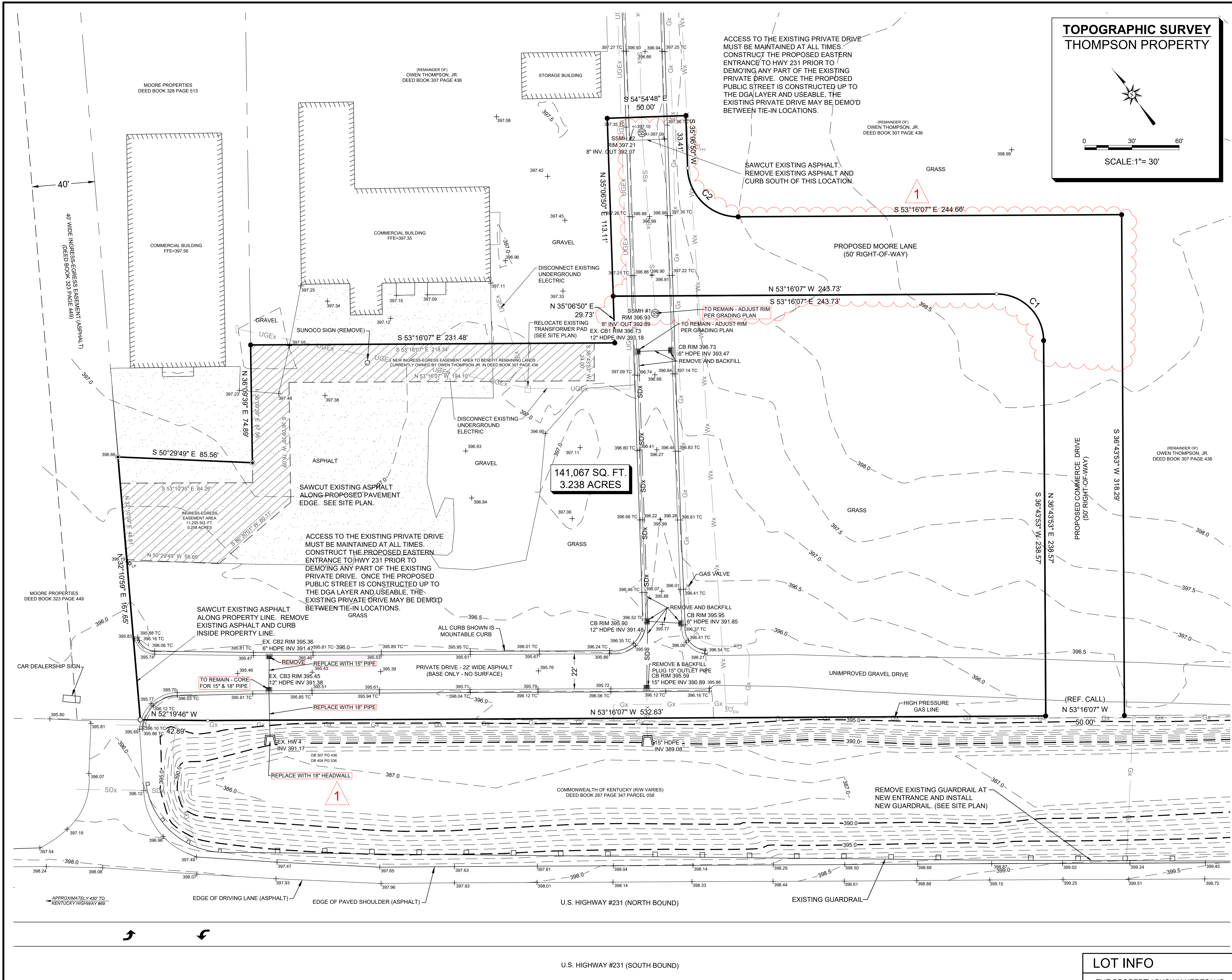


LEGEND

- BOUNDARY LINE THIS SURVEY
- - - - - APPROXIMATE ADJOINER OR R-O-W LINES
- Wx Wx Wx EXISTING WATERLINE
- SSx SSx SSx EXISTING SANITARY SEWER LINE
- SS (S) EXISTING SANITARY SEWER MANHOLE
- UGEx UGEx EXISTING UNDERGROUND ELECTRIC
- Gx Gx Gx EXISTING GAS LINE
- SDx SDx SDx EXISTING STORM SEWER
- EXISTING STORM INLET
- +394.26 EXISTING SPOT ELEVATION
- - - - -396- EXISTING CONTOUR LINE
- 396 +394.26 PROPOSED CONTOUR LINE
- +394.26 PROPOSED SPOT ELEVATION
- PROPOSED LIMITS OF DISTURBANCE
- SS SS SS PROPOSED SANITARY SEWER LINE
- G G G PROPOSED GAS LINE
- E E E PROPOSED UNDERGROUND ELECTRIC
- W W W PROPOSED WATERLINE
- CO PROPOSED SANITARY SEWER CLEANOUT
- PROPOSED STORM INLET
- PROPOSED LIGHT POLE
- ▨ PROPOSED CONCRETE PAVEMENT
- ▨ PROPOSED STANDARD ASPHALT PAVEMENT



VICINITY MAP HARTFORD, KY



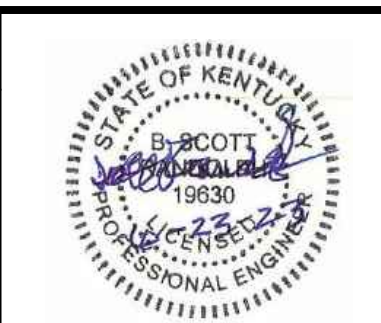
**TOPOGRAPHIC SURVEY
THOMPSON PROPERTY**

0 30' 60'

SCALE: 1" = 30'

SURVEYOR'S NOTES

1. IN PERFORMING THIS SURVEY, NO GUARANTEE IS MADE AS TO THE EXISTENCE, SIZE, DEPTH, CONDITION, CAPACITY OR LOCATION OF ANY UTILITY EXISTING ON THE SITE, WHETHER PRIVATE, MUNICIPAL OR PUBLICLY OWNED.
2. NO EXTENSIVE INVESTIGATION HAS BEEN PERFORMED TO SEARCH FOR RECORDS OR DOCUMENTATION OF EASEMENTS, ENCUMBRANCES, RESTRICTIVE COVENANTS, OWNERSHIP TITLE EVIDENCE, OR ANY OTHER FACTS THAT A PROFESSIONAL TITLE SEARCH MAY DISCLOSE.
3. ALL RIGHTS RESERVED. NO PART OF THIS DRAWING MAY BE REPRODUCED BY PHOTOCOPYING, RECORDING OR BY ANY OTHER MEANS, OR STORED, PROCESSED OR TRANSMITTED IN OR BY ANY COMPUTER OR OTHER SYSTEMS WITHOUT PRIOR WRITTEN PERMISSION OF KRES.



1	REVISE GRADING, DRAINAGE AND ROADS	8-8-23
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REFERENCE MERIDIAN

THE BEARINGS SHOWN HEREON ARE REFERENCED TO GRID NORTH OF THE NAD83 KENTUCKY SOUTH STATE PLANE COORDINATE SYSTEM. DISTANCES SHOWN ARE GRID DISTANCES. ELEVATIONS ARE BASED UPON NAVD88 GEOID 18US. ALL MEASUREMENTS DERIVED FROM AN INITIAL GPS OBSERVATION USING A VRS NETWORK OF KY CORS STATIONS.

- LEGEND**
- 5/8" X 18" REBAR & CAP (SET) PLS #4120
 - MAGNAIL AND STAMPED STAINLESS STEEL WASHER (SET) PLS #4120
 - RAILROAD SPIKE (FOUND)
 - MEANDER POINT
 - BOUNDARY LINE THIS SURVEY
 - - - APPROXIMATE ADJOINER OR R/W LINES
 - - - ORIGINAL TRACT LINES OR REFERENCE LINES
 - - - EASEMENT LINES
 - - - EXISTING ROADWAY AS LABELED
 - Wx EXISTING WATERLINE
 - SDx EXISTING STORM PIPE
 - SSx EXISTING SANITARY SEWER
 - UGEx EXISTING PRIMARY UNDERGROUND ELECTRIC
 - Gx EXISTING GAS LINE
 - ⊙ EXISTING GAS RISER (UNLESS NOTED OTHERWISE)
 - ⊗ EXISTING WATERLINE VALVE
 - ⊕ FIRE HYDRANT
 - ⊙ LIGHT POLE
 - + 396.00 EXISTING SPOT ELEVATION
 - - - 396.0 EXISTING CONTOUR (0.5' INTERVALS)
 - ASPHALT PAVEMENT (PARKING LOT)
 - EASEMENT AREA

**KENNER RANDOLPH
ENGINEERING & SURVEYING**
199 NORTH OWEN STREET
RUSSELLVILLE, KY 42276
270-717-1131

CLIENT ADDRESS: NEWCOMB OIL 951 WITHROW COURT BARSTOWN, KY 40004	SURVEYOR: CRK KRS	DWN BY: BSR	CKD BY: BSR
FINAL SURVEY DATE: 2/17/23	FILE NAME: 2210271E	CRD FILE: 8/8/2023	FILE SIZE: 24286

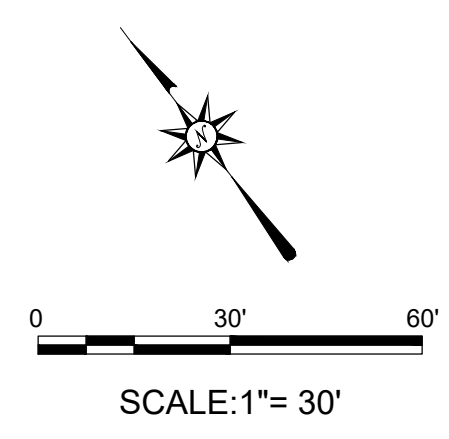
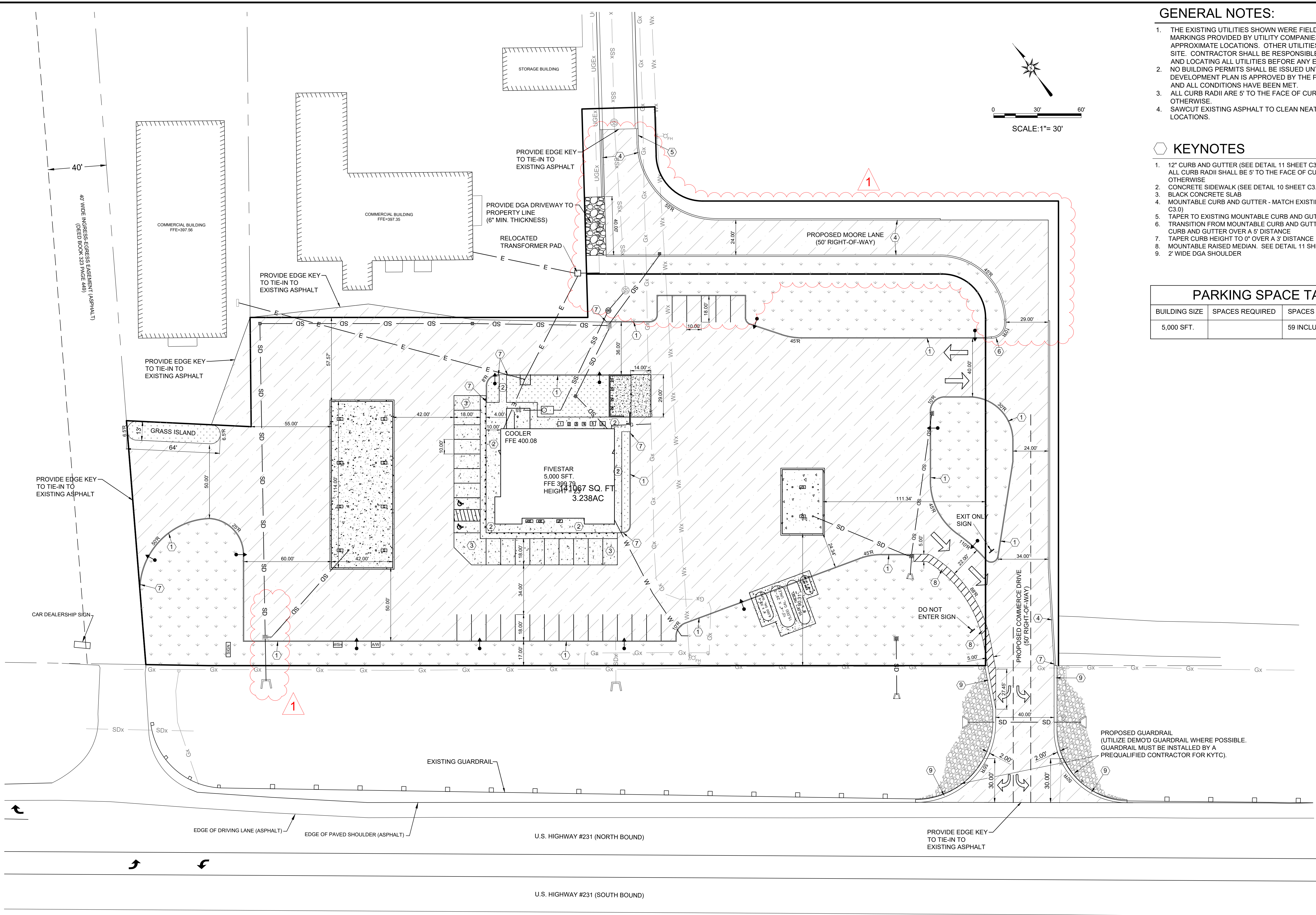
**EXISTING CONDITIONS &
DEMO PLAN**
FIVESTAR
U.S. HIGHWAY #231
HARTFORD, KY 42347

SHEET
IDENTIFICATION
C1.0

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
C1	23.72'	45.63'	42.03'	N 08°16'07" W	90°00'00"
C2	32.00'	49.36'	44.61'	S 09°04'39" E	88°22'57"

LOT INFO

THE PROPERTY SHOWN HEREON IS LOCATED WITHIN A FEMA SPECIAL FLOOD HAZARD AREA ACCORDING TO FIRM #21183C0259D WITH AN EFFECTIVE DATE OF 6/2/2011. BASE FLOOD ELEVATION IS APPROXIMATELY 394.00



GENERAL NOTES:

1. THE EXISTING UTILITIES SHOWN WERE FIELD SURVEYED FROM MARKINGS PROVIDED BY UTILITY COMPANIES AND ARE APPROXIMATE LOCATIONS. OTHER UTILITIES MAY EXIST ON THIS SITE. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING 811 AND LOCATING ALL UTILITIES BEFORE ANY EXCAVATION BEGINS. NO BUILDING PERMITS SHALL BE ISSUED UNTIL A FINAL DEVELOPMENT PLAN IS APPROVED BY THE PLANNING COMMISSION AND ALL CONDITIONS HAVE BEEN MET.
2. ALL CURB RADII ARE 5' TO THE FACE OF CURB UNLESS NOTED OTHERWISE.
3. SAWCUT EXISTING ASPHALT TO CLEAN NEAT LINES AT ALL TIE-IN LOCATIONS.
4. MOUNTABLE CURB AND GUTTER - MATCH EXISTING (SEE DETAIL 11 SHEET C3.0)

KEYNOTES

1. 12" CURB AND GUTTER (SEE DETAIL 11 SHEET C3.0). ALL CURB RADII SHALL BE 5' TO THE FACE OF CURB UNLESS NOTED OTHERWISE.
2. CONCRETE SIDEWALK (SEE DETAIL 10 SHEET C3.0)
3. BLACK CONCRETE SLAB
4. MOUNTABLE CURB AND GUTTER - MATCH EXISTING (SEE DETAIL 11 SHEET C3.0)
5. TAPER TO EXISTING MOUNTABLE CURB AND GUTTER OVER A 5' DISTANCE
6. TRANSITION FROM MOUNTABLE CURB AND GUTTER TO STANDARD 12" CURB AND GUTTER OVER A 5' DISTANCE
7. TAPER CURB HEIGHT TO 0" OVER A 3' DISTANCE
8. MOUNTABLE RAISED MEDIAN. SEE DETAIL 11 SHEET C3.0
9. 2' WIDE DGA SHOULDER

PARKING SPACE TABLE

BUILDING SIZE	SPACES REQUIRED	SPACES PROVIDED
5,000 SFT.		59 INCLUDING 2 ADA SPACES.



1	REVISE GRADING, DRAINAGE AND ROADS	8-6-23
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KENNER RANDOLPH
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 199 NORTH OWEN STREET
 RUSSELLVILLE, KY 42276
 270-717-1131

CLIENT ADDRESS: NEWCOMB COURT 951 WILLOW COURT BARDSTOWN, KY 40004	ENGINEER: BSR DWN BY: BSR	CHKD BY: CRK	FINAL SURVEY DATE: 2/17/23	CRD FILE: 882023	FILE NAME: 24268	FILE DATE: 2/10/23
PROPERTY OWNER ADDRESS: OWEN THOMPSON, JR. P.O. BOX 5 BEAVER DAM, KY 42320						

SITE PLAN
FIVESTAR
U.S. HIGHWAY #231
HARTFORD, KY 42347

SHEET IDENTIFICATION
C2.0



1	REVISE GRADING, DRAINAGE AND ROADS	8-6-23
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KENNER RANDOLPH
ENGINEERING & SURVEYING
 199 NORTH OWEN STREET
 RUSSELLVILLE, KY 42276
 270-717-1131

ENGINEER:	BSR	CKD BY:	CRK
DWN BY:	BSR	FINAL SURVEY DATE:	2/17/23
CLIENT ADDRESS:	951 WITHROW COURT BARDSTOWN, KY 40004		
PROPERTY OWNER ADDRESS:	OWEN THOMPSON, JR. P.O. BOX 5 BEAVER DAM, KY 42320		
PLOT DATE:	8/8/2023	CRD FILE:	2110271E
FILE NAME:	24268	FILE DATE:	2/10/2023

EPSC PLAN
FIVESTAR
U.S. HIGHWAY #231
HARTFORD, KY 42347

SHEET IDENTIFICATION
C2.2

EROSION CONTROL NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE SERVICES OF THE APPROPRIATE PERSONNEL NEEDED TO CREATE AND MAINTAIN A BEST MANAGEMENT PRACTICES PLAN IN ACCORDANCE WITH KPDES STORMWATER GENERAL PERMIT KYR10 AND "KENTUCKY EROSION PREVENTION AND SEDIMENT CONTROL FIELD GUIDE".
2. EROSION CONTROL MEASURES NOTED AND SHOWN ARE THE MINIMUMS DEEMED NECESSARY TO PROTECT THE PUBLIC AND OFF-SITE PROPERTIES, AND DO NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY FOR COMPLIANCE WITH ANY AND ALL U.S. EPA AND KENTUCKY DIVISION OF WATER REQUIREMENTS. ANY ADDITIONAL ITEMS REQUIRED BY THESE AND/OR LOCAL GOVERNING AUTHORITIES SHALL BE PROVIDED AT NO COST TO THE OWNER.
3. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MAINTAINING THE EROSION CONTROL PRACTICES, PERMIT DOCUMENTS, AND INSPECTION RECORDS REQUIRED TO COMPLY WITH THE NOI AND THE CONDITIONS OF THE GENERAL KPDES PERMIT, AND THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP).
4. ANY REQUIRED ALTERATIONS OR REVISIONS TO THE EROSION CONTROL PLANS BASED UPON RESULTS OF PERIODIC INSPECTIONS, CONTRACTOR ACTIONS, AND/OR OWNER/AGENCY DIRECTIONS SHALL BE IMPLEMENTED WITHIN 7 DAYS OF DISCOVERY, AND WRITTEN DOCUMENTATION OF SUCH ALTERATIONS/REVISIONS SHALL BE KEPT ON FILE BY THE CONTRACTOR.
5. ALL AREAS DISTURBED BY GRADING THAT ARE NOT STABILIZED WITH OTHER METHODS FOR A PERIOD OF 14 DAYS SHALL HAVE TEMPORARY VEGETATIVE COVER PROVIDED.
6. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED BY THE CONTRACTOR DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED.
7. REMOVE ALL EROSION CONTROL DEVICES UPON THE ESTABLISHMENT OF PERMANENT GROUND COVER.
8. PROVIDE TEMPORARY SEEDING AS NEEDED IN ACCORDANCE WITH "KENTUCKY EROSION PREVENTION AND SEDIMENT CONTROL FIELD GUIDE".
9. ALL PAINT, SOLVENT, PETROLEUM PRODUCTS (FUEL, LUBE OILS, GREASE AND CUTTING OILS) AND PETROLEUM WASTE PRODUCTS SHALL BE STORED IN CONTAINERS (SUCH AS DRUMS, CANS, OR CARTONS) SO THAT THESE MATERIALS ARE NOT EXPOSED TO STORM WATER. SUFFICIENT PRACTICES OF SPILL PREVENTION CONTROL, AND/OR MANAGEMENT SHALL BE PROVIDED TO PREVENT ANY SPILLS OF THESE POLLUTANTS FROM ENTERING A WATER OF THE STATE. ANY CONTAINMENT SYSTEM USED TO IMPLEMENT THIS REQUIREMENTS SHALL BE CONSTRUCTED OF MATERIALS COMPATIBLE WITH THE SUBSTANCES CONTAINED AND ALSO PREVENT CONTAMINATION OF GROUNDWATER.
10. DO NOT STORE CHEMICALS, DRUMS, AND BAGGED MATERIAL DIRECTLY ON THE GROUND. USE SECONDARY CONTAINMENT OR USE WOODEN PALLETS. PROVIDE SPILL CONTAINMENT DIKES AROUND CHEMICAL AND FUEL STORAGE TANKS. LINE WITH PLASTIC FILM TO PREVENT SOIL CONTAMINATION. STORE HAZARDOUS WASTES IN AN APPROPRIATE TYPE OF CONTAINER AND PROPERLY LABEL PER EPA, OSHA AND DOT REQUIREMENTS.
11. ONSITE TRASH SHOULD BE COLLECTED AND DISPOSED OF ON A REGULAR BASIS. SANITARY SYSTEMS SHOULD BE REGULARLY SERVICED. REPAIR TRASH CONTAINERS AND DUMPSTERS ON AN AS NEEDED BASIS. WHERE POSSIBLE PROVIDE COVER FOR WASTE CONTAINERS TO PREVENT THE ENTRY OF RAINWATER AND LOSS OF CONTENTS BY WIND. MAINTAIN A CONTINGENCY PLAN IN THE CASE THAT HAZARDOUS OR TOXIC MATERIALS ARE DISCOVERED.
12. MAINTAIN WASTE FLUID CONTAINERS IN LEAK PROOF CONDITION. VEHICLES AND EQUIPMENT SHOULD BE INSPECTED ON EACH DAY OF USE. LEAKS SHOULD BE REPAIRED IMMEDIATELY OR THE PROBLEM VEHICLE(S) OR EQUIPMENT SHOULD BE REMOVED FROM THE PROJECT SITE.

SEQUENCE OF SWPPP CONSTRUCTION:

1. BEFORE ANY LAND DISTURBANCE OCCURS, A NOTICE-OF-INTENT (NOI) SHALL BE FILED WITH THE STATE OF KENTUCKY DIVISION OF WATER.
2. BEFORE ANY LAND DISTURBANCE OCCURS, SILT FENCING SHALL BE INSTALLED AS SHOWN, THE CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED, AND THE STONE CHECK DAMS SHALL BE CONSTRUCTED.
3. TOPSOIL SHALL BE STRIPPED AND STOCKPILED AND PROTECTED WITH TEMPORARY SEEDING AND MULCHING.
4. AS SOON AS THE STORM INLETS ARE CONSTRUCTED, INSTALL INLET PROTECTION AS SHOWN.
5. THE STORM PIPES AND HEADWALL LOCATED IN THE KYTC RIGHT-OF-WAY SHALL BE INSTALLED DURING A TIME THAT NO RAIN EVENT IS EXPECTED. ALSO, THE DISTURBED AREAS SHALL BE SEEDED AND STRAWED OR SODDED WITHIN 7 DAYS OF INITIAL DISTURBANCE.
6. ONCE ALL TEMPORARY EROSION CONTROL ITEMS ARE REMOVED AND PERMANENT GROUND COVER IS ESTABLISHED, A NOTICE-OF-TERMINATION SHALL BE SUBMITTED TO THE KENTUCKY DIVISION OF WATER.

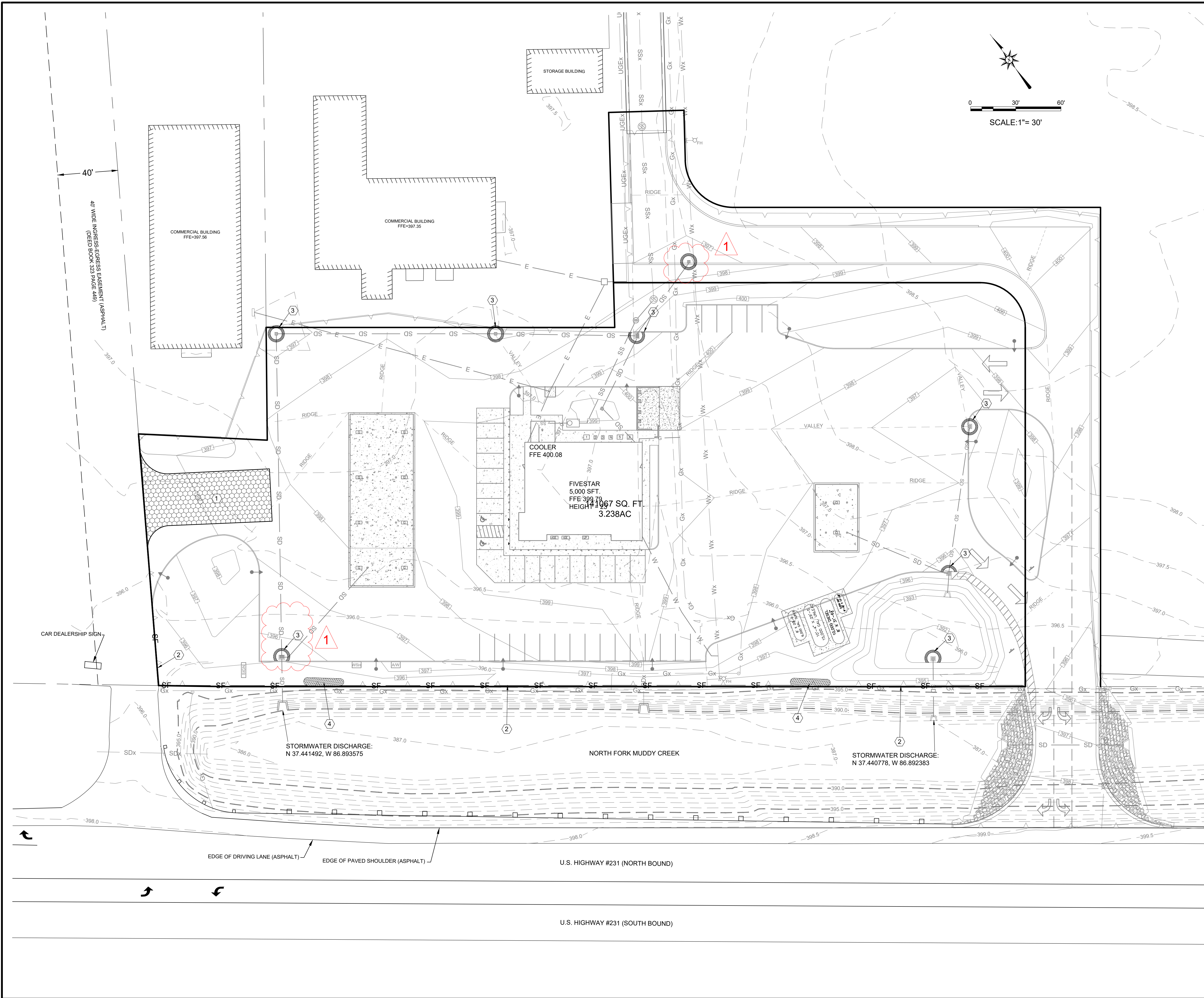
DISTURBED AREA = 169,623 SFT = 3.89 ACRES

KEY NOTES:

1. TEMP. CONSTRUCTION ENTRANCE. SEE DETAIL 1 SHEET C3.1.
2. TEMP. SILT FENCE. SEE DETAIL 2 SHEET C3.1.
3. TEMP. INLET PROTECTION. SEE DETAIL 3 SHEET C3.1.
4. TEMP. STONE CHECK DAM. SEE DETAIL 4 SHEET C3.1.

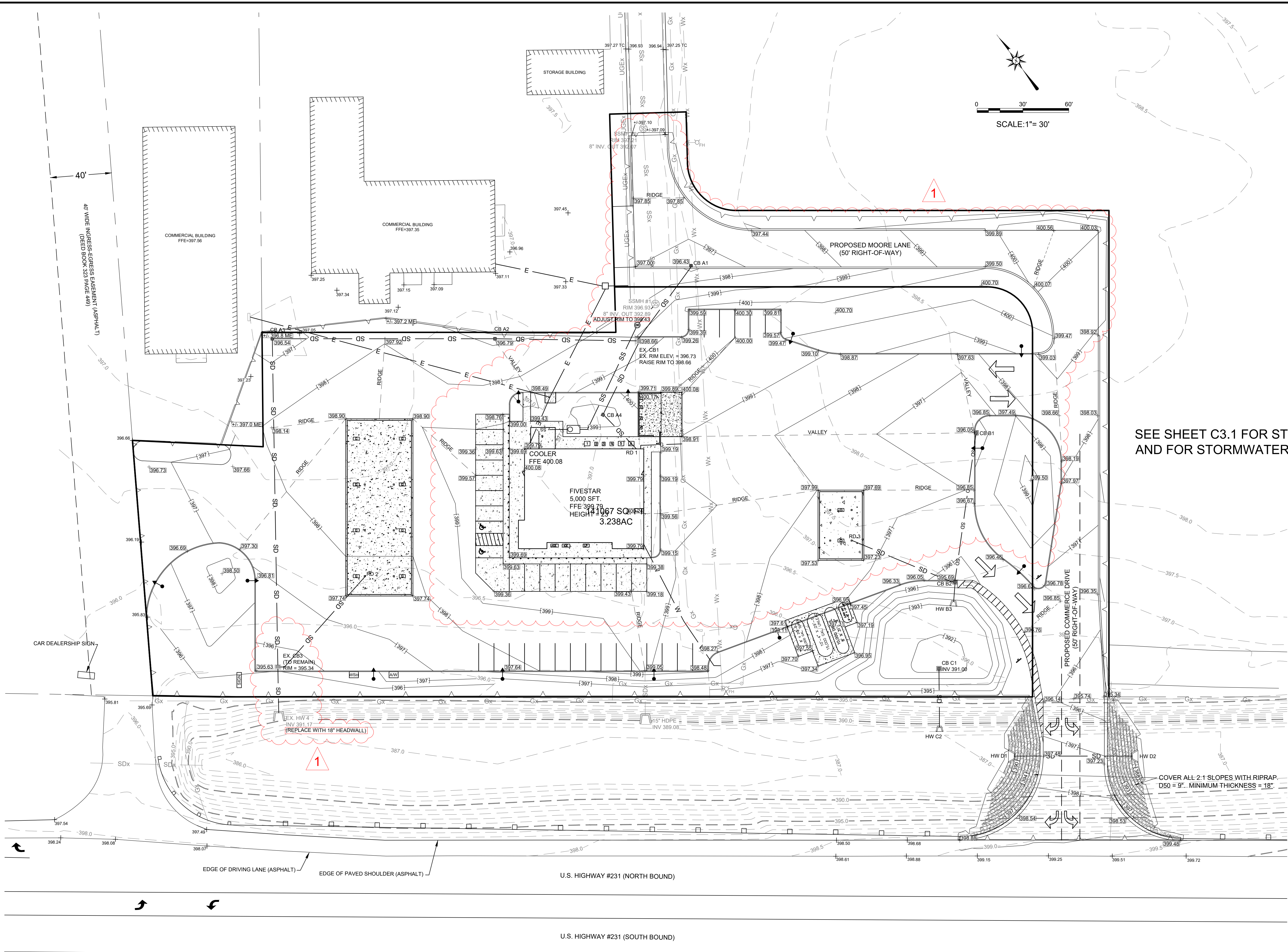
LEGEND

---	Wx	BOUNDARY LINE THIS SURVEY
---	Wx	APPROXIMATE ADJOINER LINES
---	SSx	EXISTING WATERLINE
---	SSx	EXISTING SANITARY SEWER LINE
---	SSx	EXISTING SANITARY SEWER MANHOLE
---	UGEx	EXISTING UNDERGROUND ELECTRIC
---	Gx	EXISTING GAS LINE
---	SDx	EXISTING STORM SEWER
---	SDx	EXISTING STORM INLET
---	+ 394.26	EXISTING SPOT ELEVATION
---	---	EXISTING CONTOUR LINE
---	+ 394.26	PROPOSED CONTOUR LINE
---	+ 394.26	PROPOSED SPOT ELEVATION
---	---	PROPOSED LIMITS OF DISTURBANCE
---	SS	PROPOSED SANITARY SEWER LINE
---	G	PROPOSED GAS LINE
---	E	PROPOSED UNDERGROUND ELECTRIC
---	W	PROPOSED WATERLINE
---	---	PROPOSED STORM INLET



HARTFORD - 4455

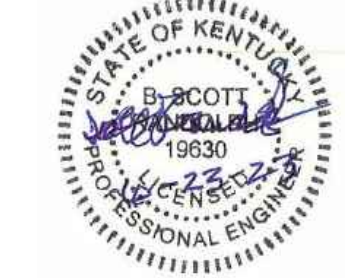
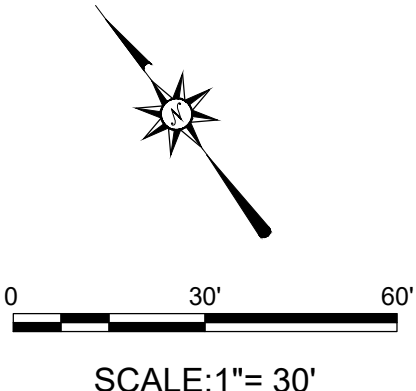
HARTFORD - 4455



GENERAL NOTES:

1. THE EXISTING UTILITIES SHOWN WERE FIELD SURVEYED FROM MARKINGS PROVIDED BY UTILITY COMPANIES AND ARE APPROXIMATE LOCATIONS. OTHER UTILITIES MAY EXIST ON THIS SITE. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING 811 AND LOCATING ALL UTILITIES BEFORE ANY EXCAVATION BEGINS.
2. MORE THAN 1 ACRE OF LAND SHOULD BE DISTURBED DURING THE CONSTRUCTION OF THIS PROJECT. THE CONTRACTOR SHALL SUBMIT AN NOI WITH THE STATE OF KENTUCKY PRIOR TO BEGINNING ANY GRADING WORK.
3. NO GRADING, STRIPPING, EXCAVATION, FILLING, OR OTHER DISTURBANCE OF THE NATURAL GROUND COVER SHALL TAKE PLACE UNLESS AND UNTIL THE CITY OF HARTFORD HAS APPROVED THE DEVELOPER'S SOIL EROSION CONTROL PROCEDURES AND EROSION CONTROL PLAN.
4. NO BUILDING PERMITS SHALL BE ISSUED UNTIL A FINAL DEVELOPMENT PLAN IS APPROVED BY THE PLANNING COMMISSION AND ALL CONDITIONS HAVE BEEN MET.
5. ALL DISTURBED AREAS THAT ARE NOT PAVED, LANDSCAPED, OR OTHERWISE PROVIDED WITH PERMANENT GROUND COVER SHALL BE SEED OR SODDED AS SOON AS PRACTICAL TO PREVENT SOIL EROSION.
6. THIS PROPERTY IS IN A FEMA FLOOD ZONE AE ACCORDING TO FEMA MAP NUMBER 21183C0250D WITH MAP REVISION DATE JUNE 2, 2011. THE FEMA 1% BASE FLOOD ELEVATION IS 394. THE PROPOSED BUILDING FINISH FLOOR ELEVATION IS 399.84. THEREFORE, THE PROPOSED BUILDING FINISH FLOOR ELEVATION IS 5.84 FEET ABOVE THE 1% BASE FLOOD ELEVATION.

SEE SHEET C3.1 FOR STORM STRUCTURE TABLE AND FOR STORMWATER RUNOFF CALCULATIONS.



1	REVISE GRADING, DRAINAGE AND ROADS	8-6-23
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ENGINEERING & SURVEYING
 199 NORTH OWEN STREET
 RUSSELLVILLE, KY 42276
 270-717-1131

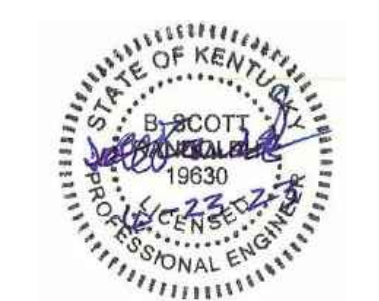
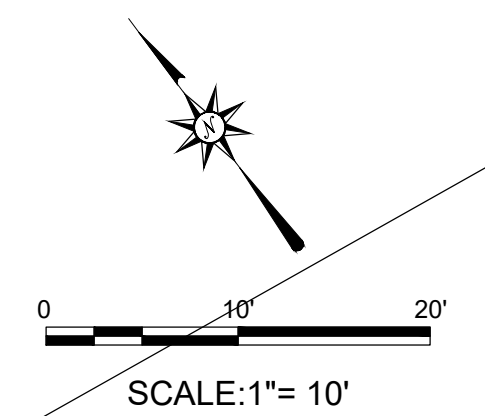
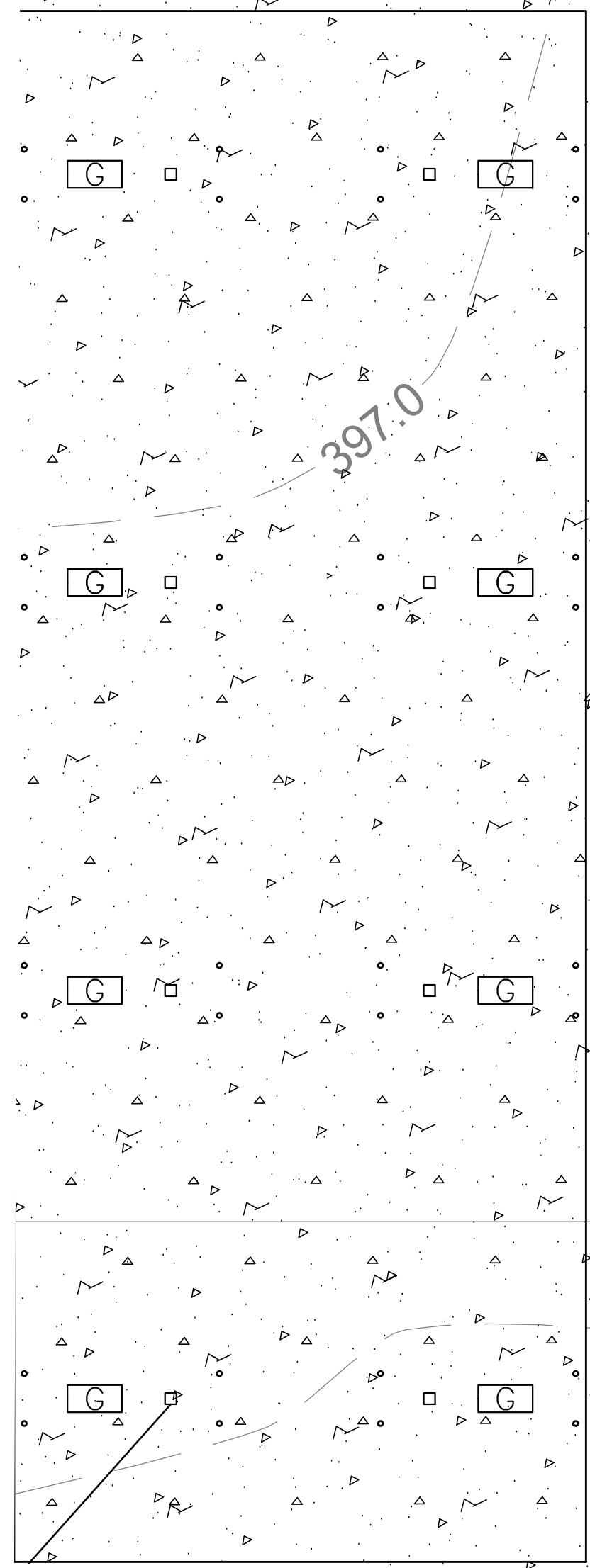
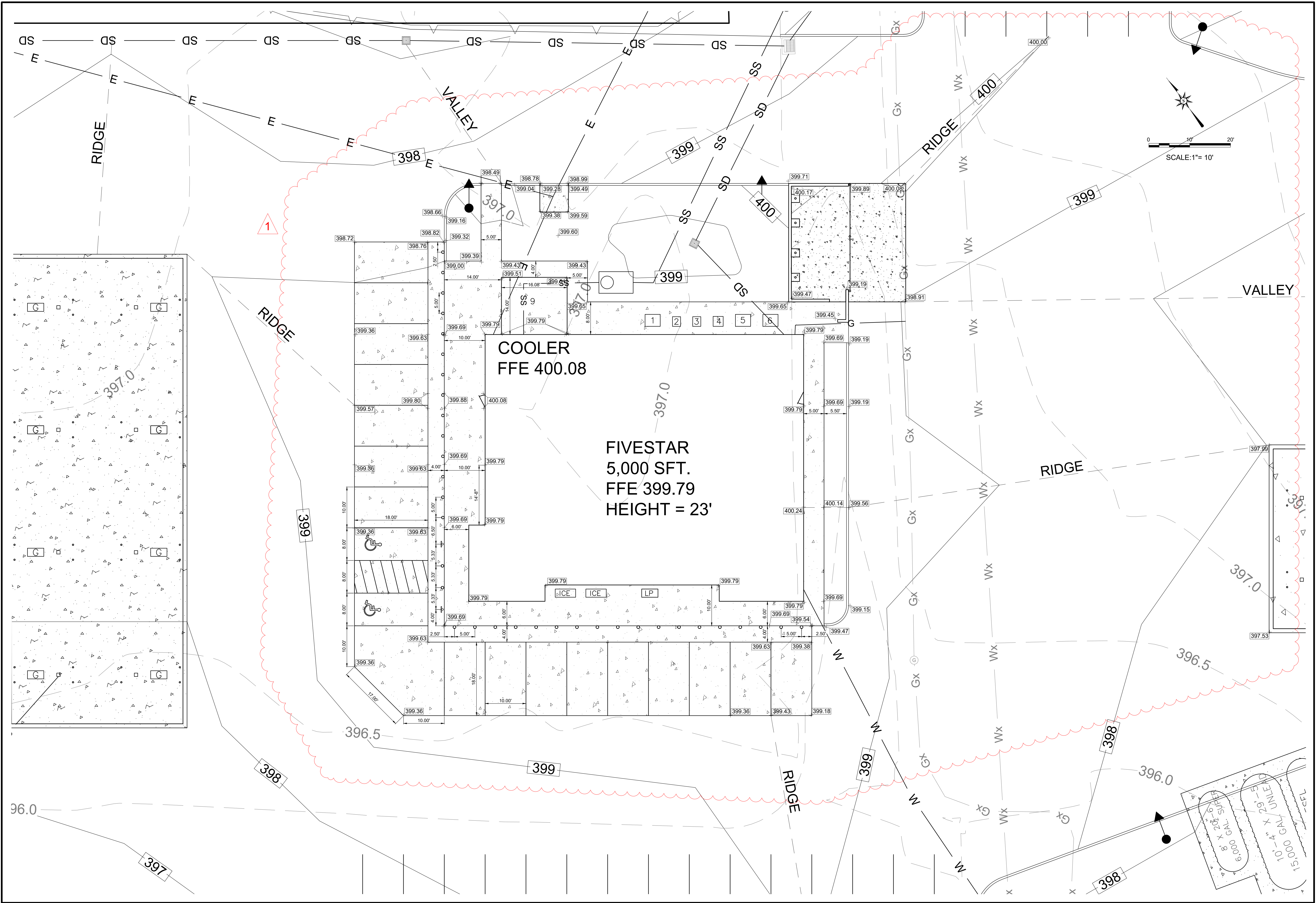
CLIENT ADDRESS:
 NEWCOMB COURT
 BARDSTOWN, KY 40004

PROPERTY OWNER ADDRESS:
 OWEN THOMPSON, JR.
 P.O. BOX 5
 BEAVER DAM, KY 42320

ENGINEER:
 BSR: SCOTT C. SCOTT
 DWN BY: CRK
 FINAL SURVEY DATE: 2/17/23
 PLOT DATE: 8/6/2023
 CRD FILE: 24X36
 FILE NAME: 2110271E

GRADING PLAN
 FIVESTAR
 U.S. HIGHWAY #231
 HARTFORD, KY 42347

SHEET IDENTIFICATION
C2.2



REVISION	DATE	DESCRIPTION
1		REVISE GRADING, DRAINAGE AND ROADS

KENNER RANDOLPH
ENGINEERING & SURVEYING
 199 NORTH OWEN STREET
 RUSSELLVILLE, KY 42276
 270-717-1131

CLIENT ADDRESS: NEWCOMB COURT BARDSTOWN, KY 40004	ENGINEER: BSR DWN BY: BSR	CHK BY: CRK	FINAL SURVEY DATE: 2/17/23	CRD FILE: 882023	PLOT DATE: 2/24/23	FILE NAME: 2110271E
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ENLARGED GRADING PLAN
FIVESTAR
 U.S. HIGHWAY #231
 HARTFORD, KY 42347

SHEET IDENTIFICATION
C2.2



REVISE GRADING, DRAINAGE AND ROADS 8-6-23

KENNER RANDOLPH
ENGINEERING & SURVEYING
199 NORTH OWEN STREET
RUSSELLVILLE, KY 42276
270-717-1131

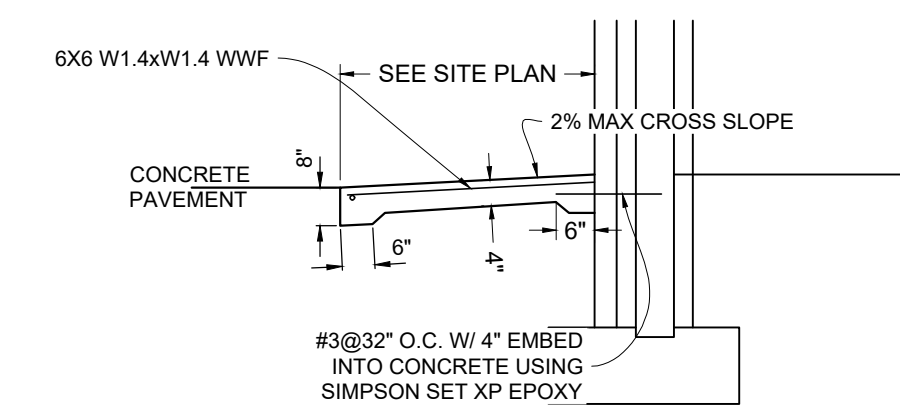
ENGINEER:	BSR	CKD BY:	CRK
CLIENT ADDRESS:	951 WITTHROW COURT BARDSTOWN, KY 40004	FINAL SURVEY DATE:	2/17/23
PROPERTY OWNER ADDRESS:	OWEN THOMPSON, JR. P.O. BOX 5 BEAVER DAM, KY 42320	PLOT DATE:	8/8/2023
		FILE NUMBER:	2210271E

DETAILS
FV5STAR #231
U.S. HIGHWAY #231
HARTFORD, KY 42347

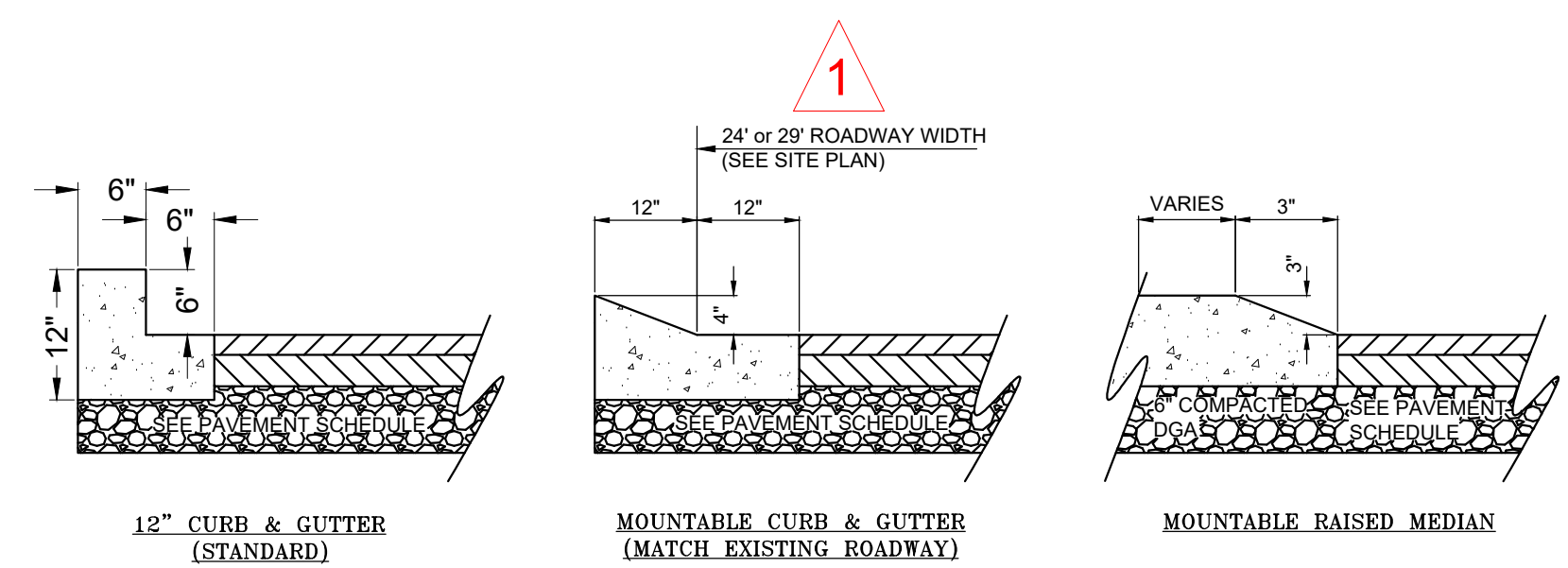
SHEET IDENTIFICATION
C3.0

HARTFORD - 4455

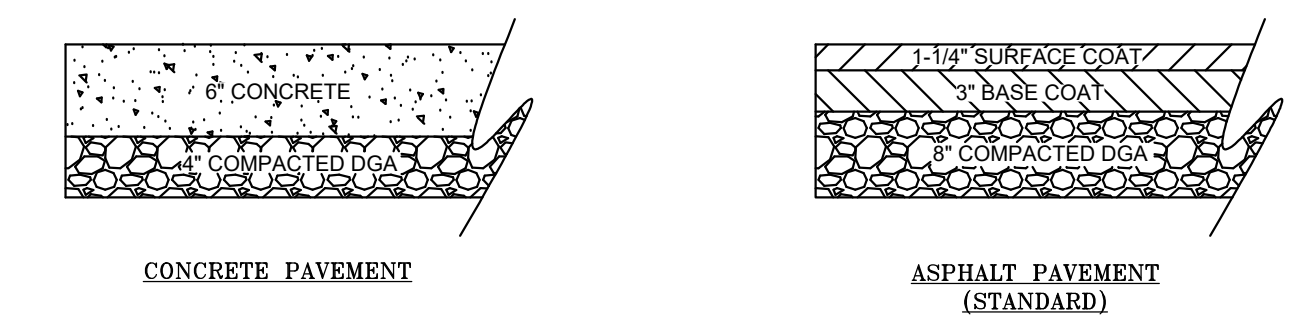
HARTFORD - 4455



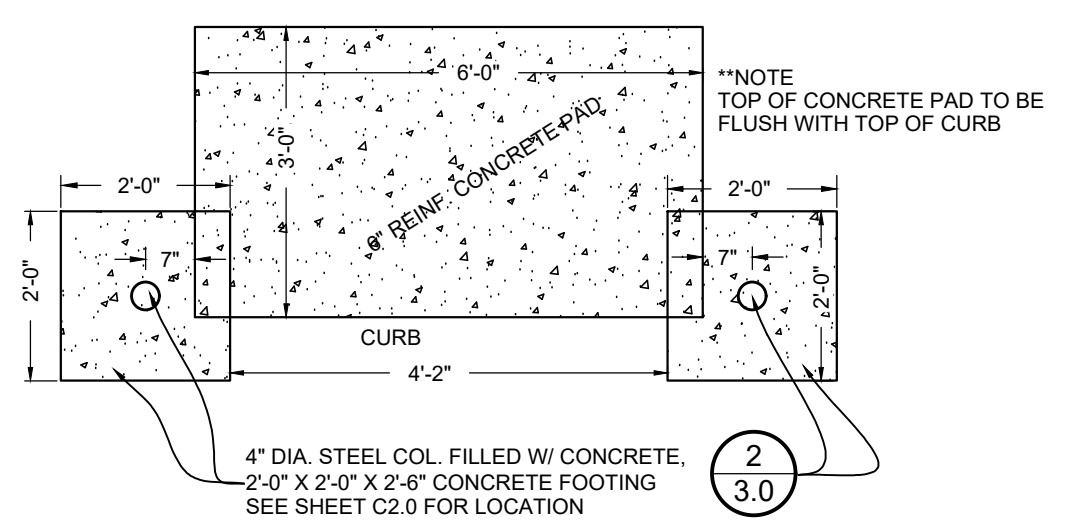
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3.0 N.T.S.
SIDEWALK DETAIL



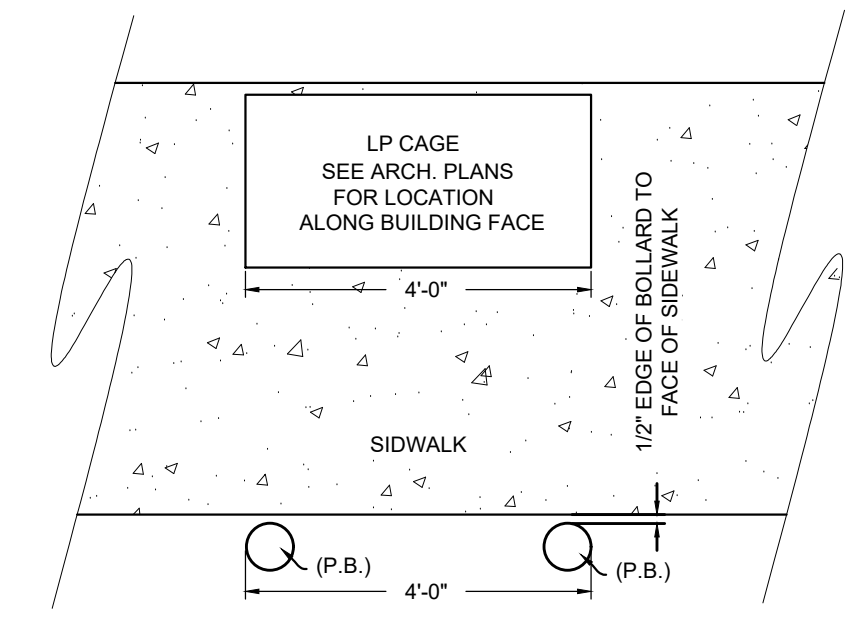
11
3.0 N.T.S.
CURB DETAIL



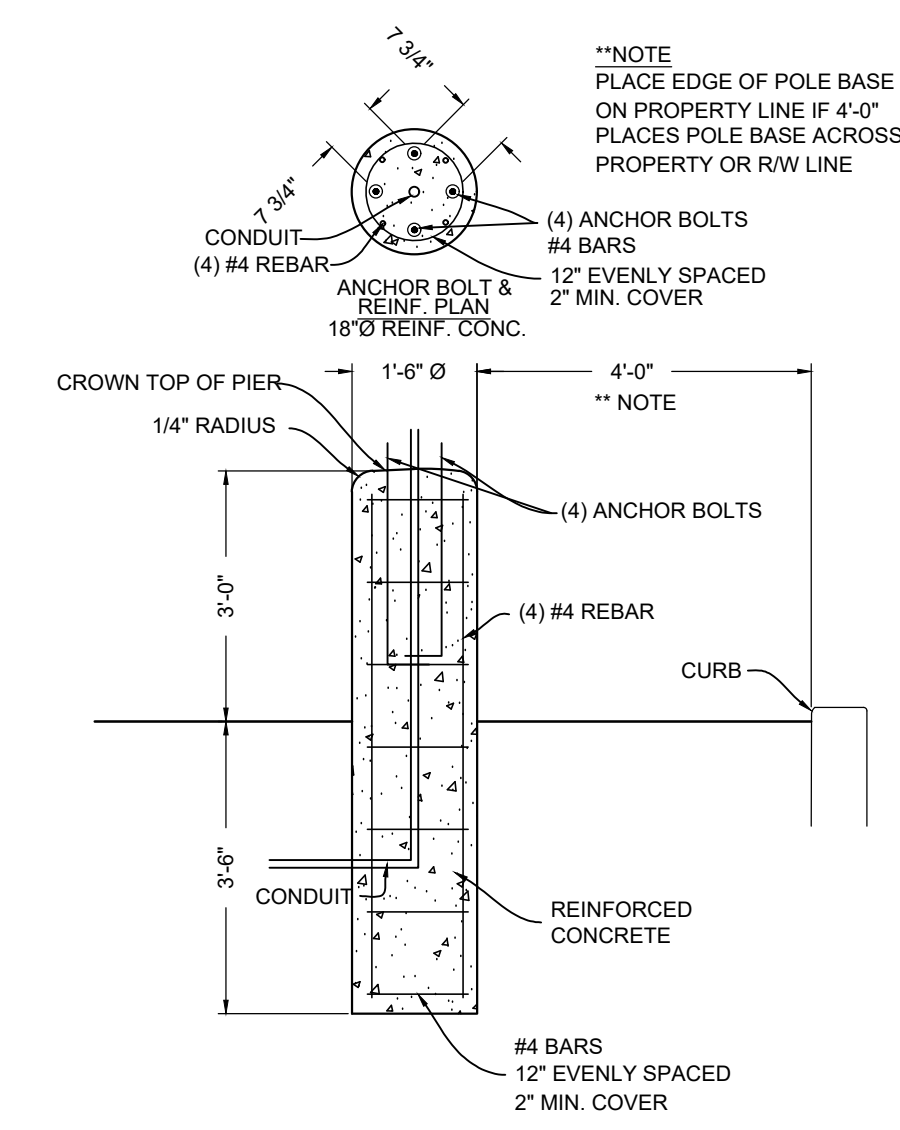
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3.0 N.T.S.
PAVEMENT DETAIL



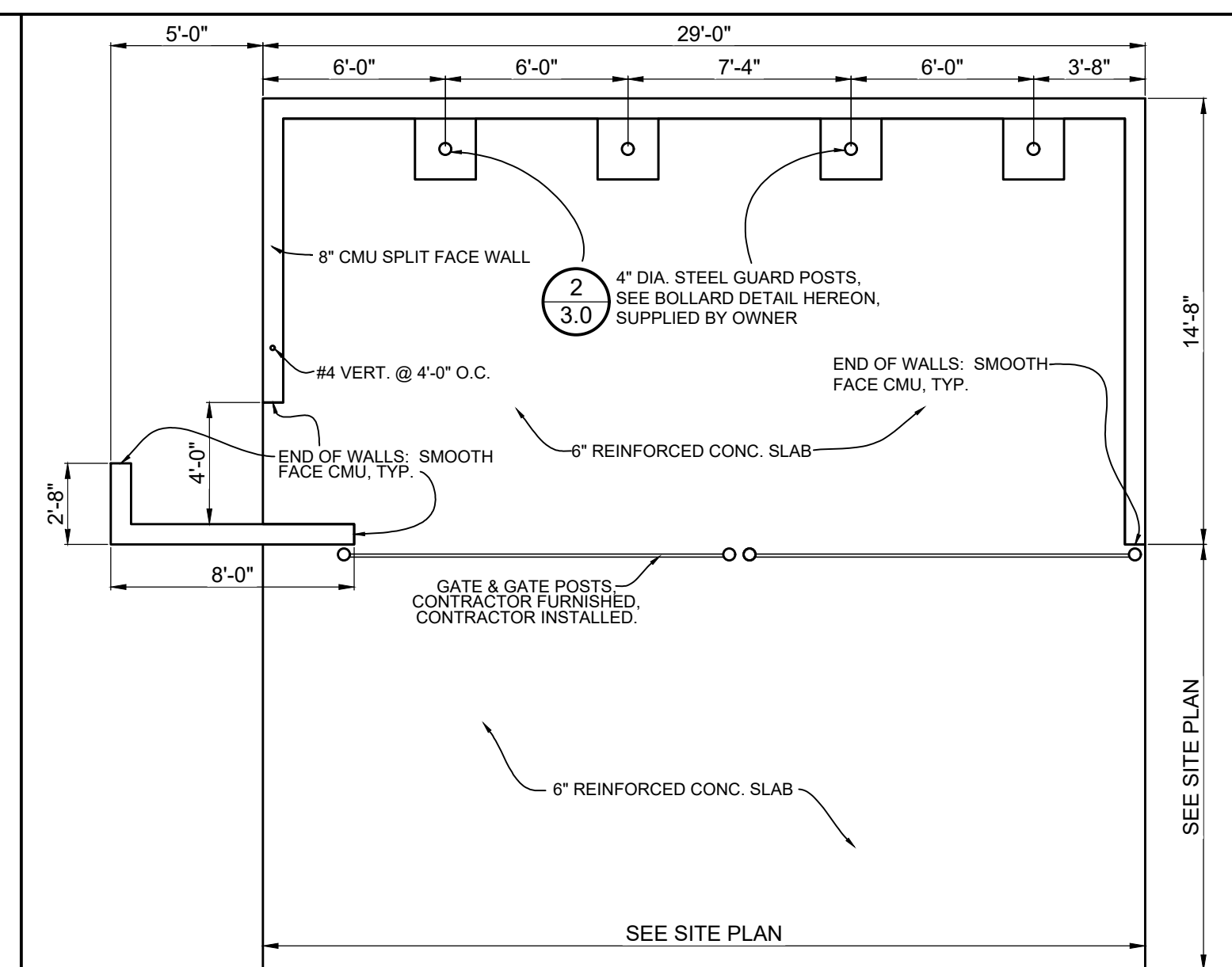
6
3.0 N.T.S.
WASH STATION CONC. PAD



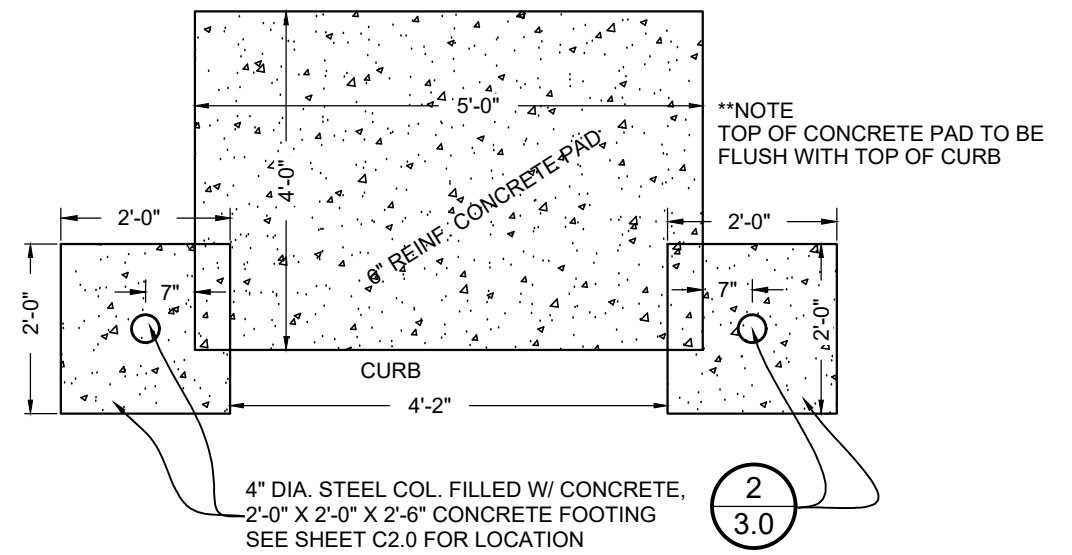
7
3.0 N.T.S.
LP CAGE DETAIL



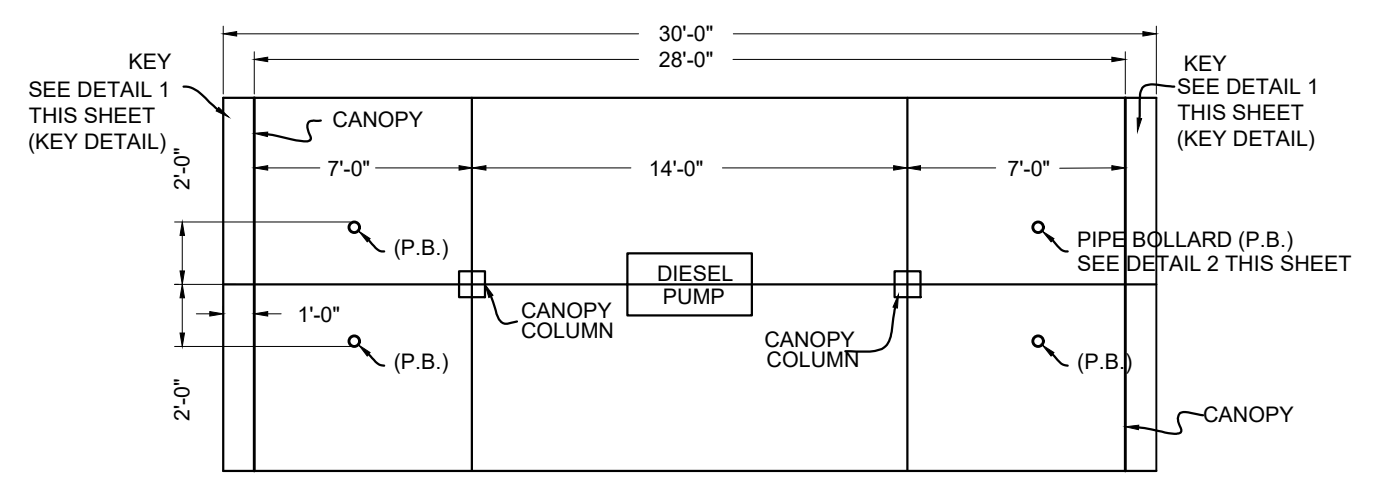
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3.0 N.T.S.
LIGHT POLE BASE DETAIL



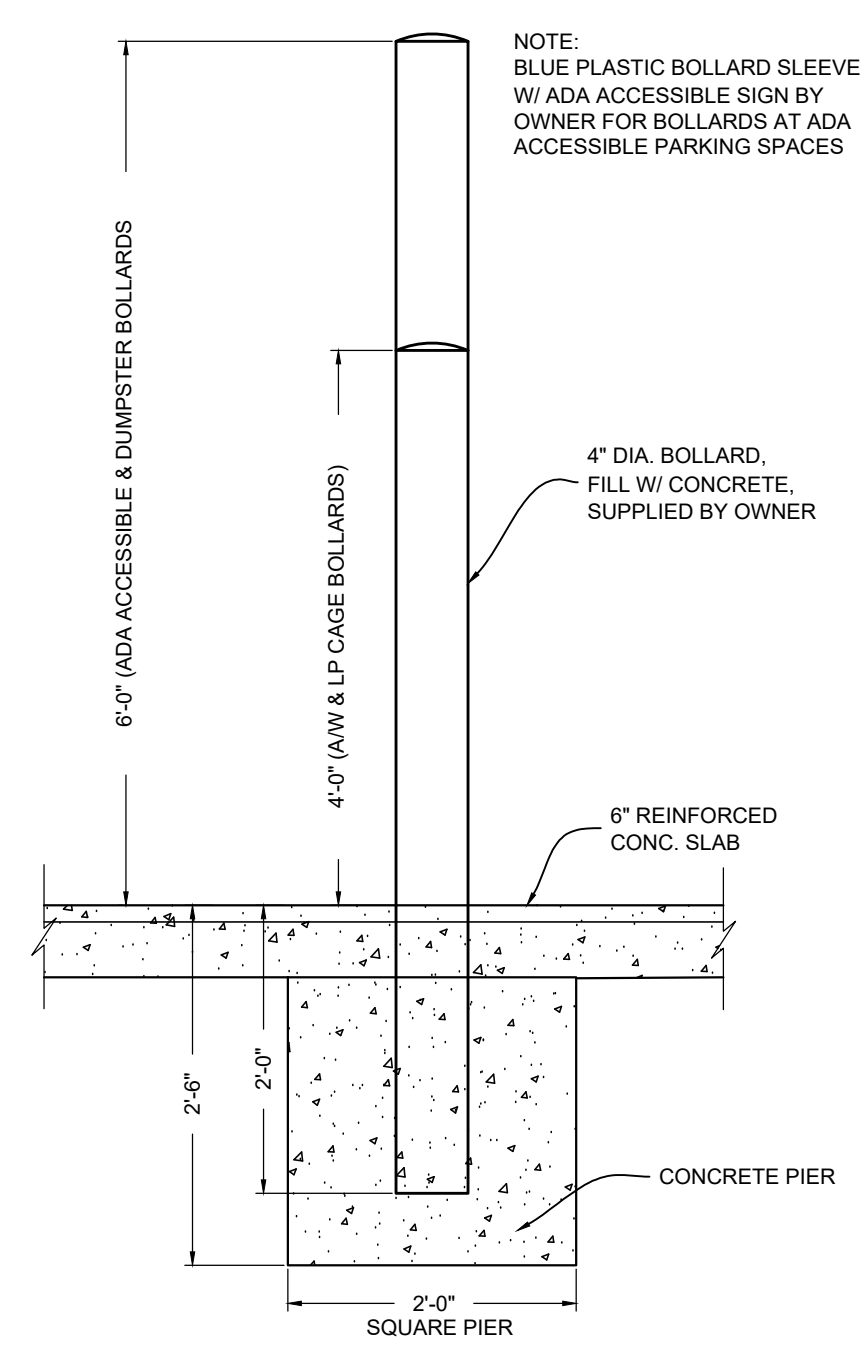
9
3.0 N.T.S.
DUMPSTER DETAIL



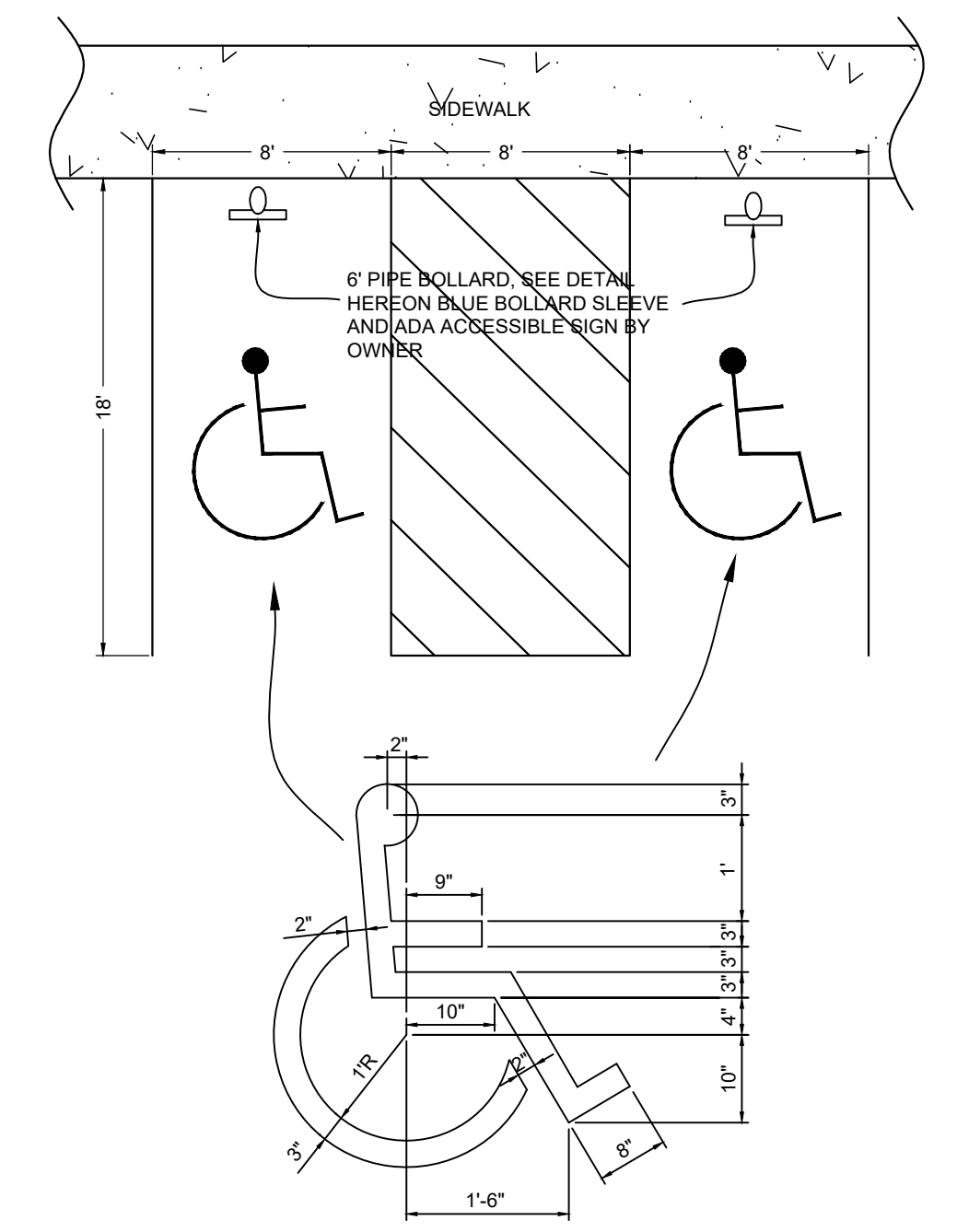
4
3.0 N.T.S.
AIR STAND CONC. PAD



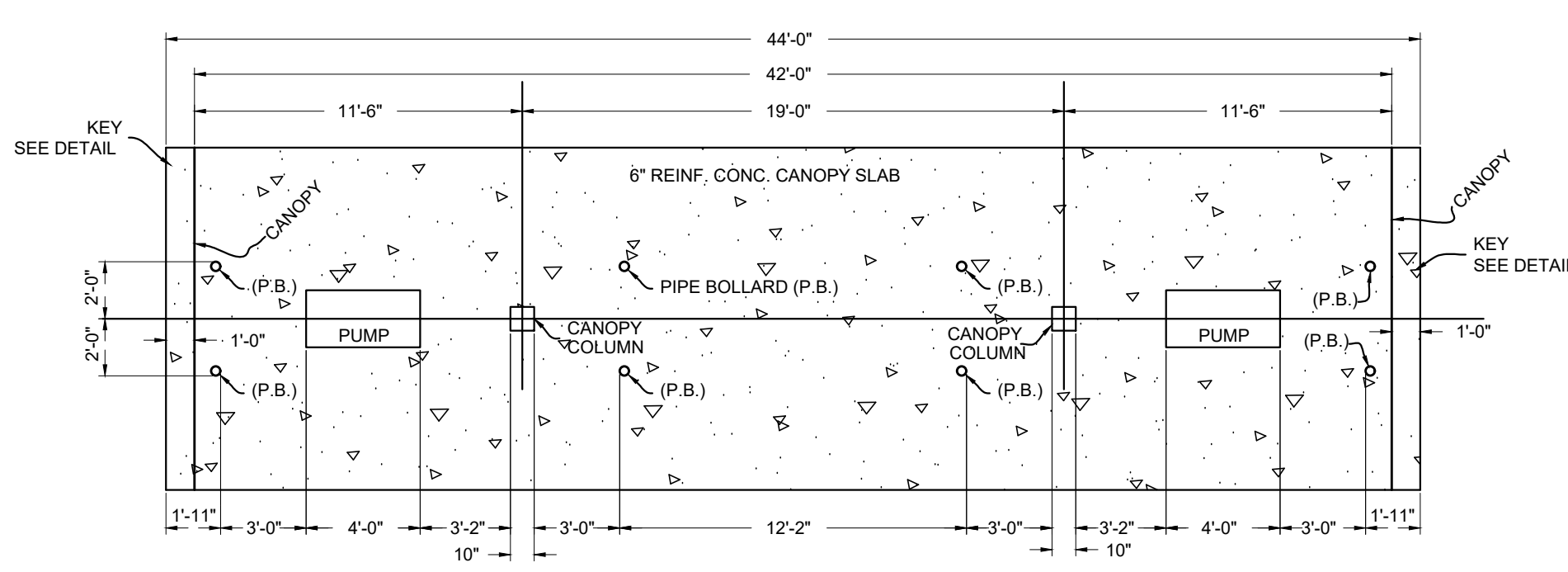
5
3.0 N.T.S.
DIESEL PUMP ISLAND PLAN SECTION



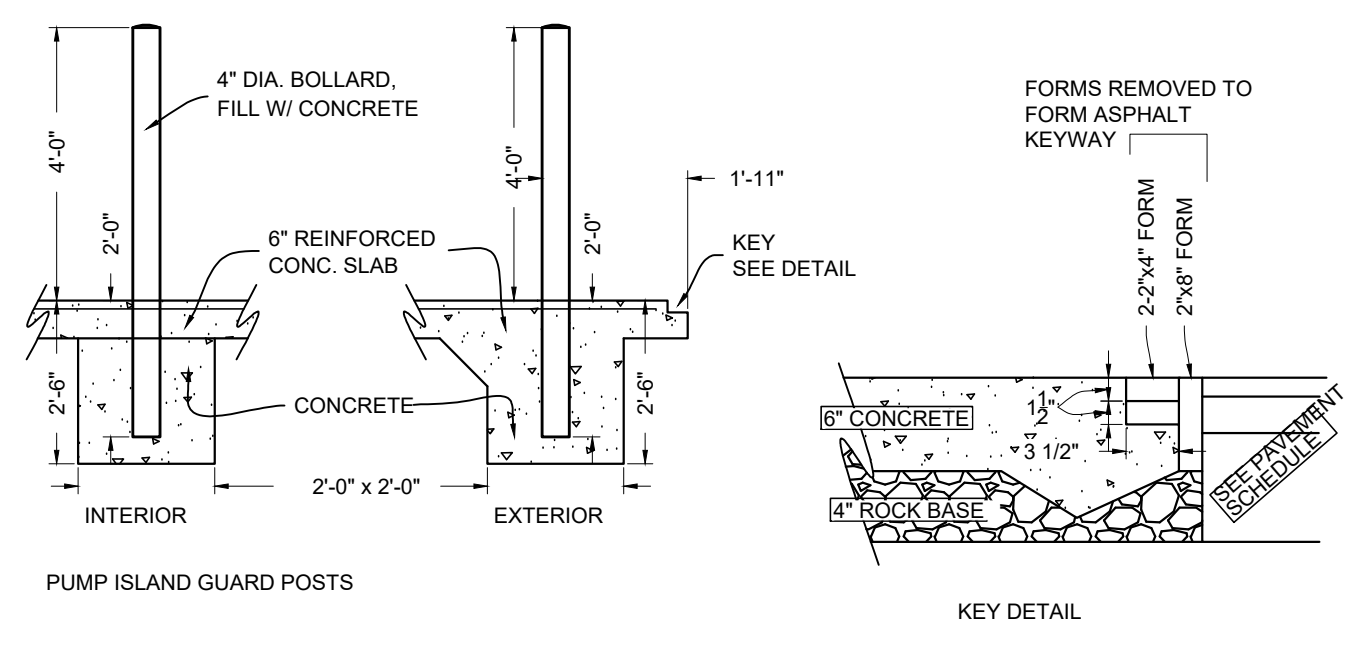
2
3.0 N.T.S.
PIPE BOLLARD DETAIL



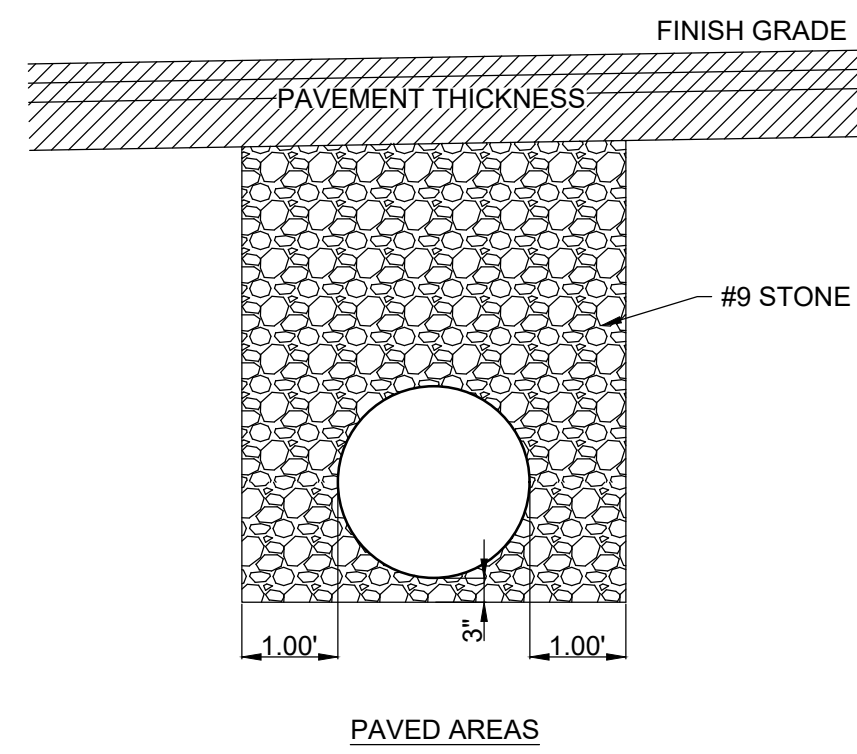
3
3.0 N.T.S.
ADA ACCESSIBLE SPACE DETAIL



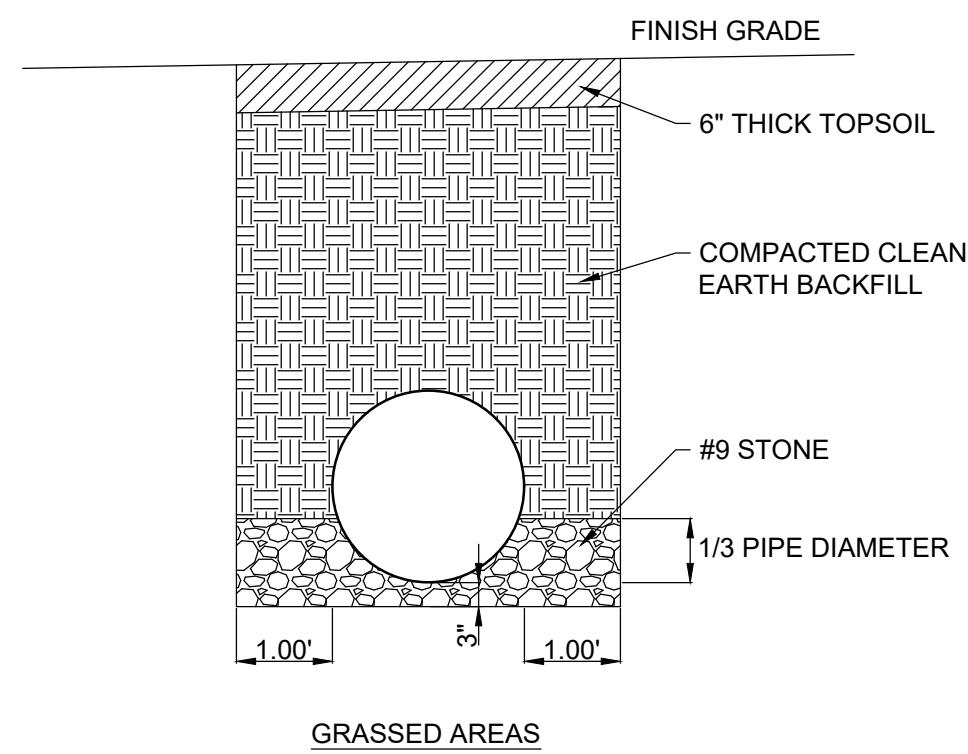
1
3.0 N.T.S.
PUMP ISLAND PLAN SECTION



KEY DETAIL



5 PIPE BEDDING DETAIL
SCALE: NTS

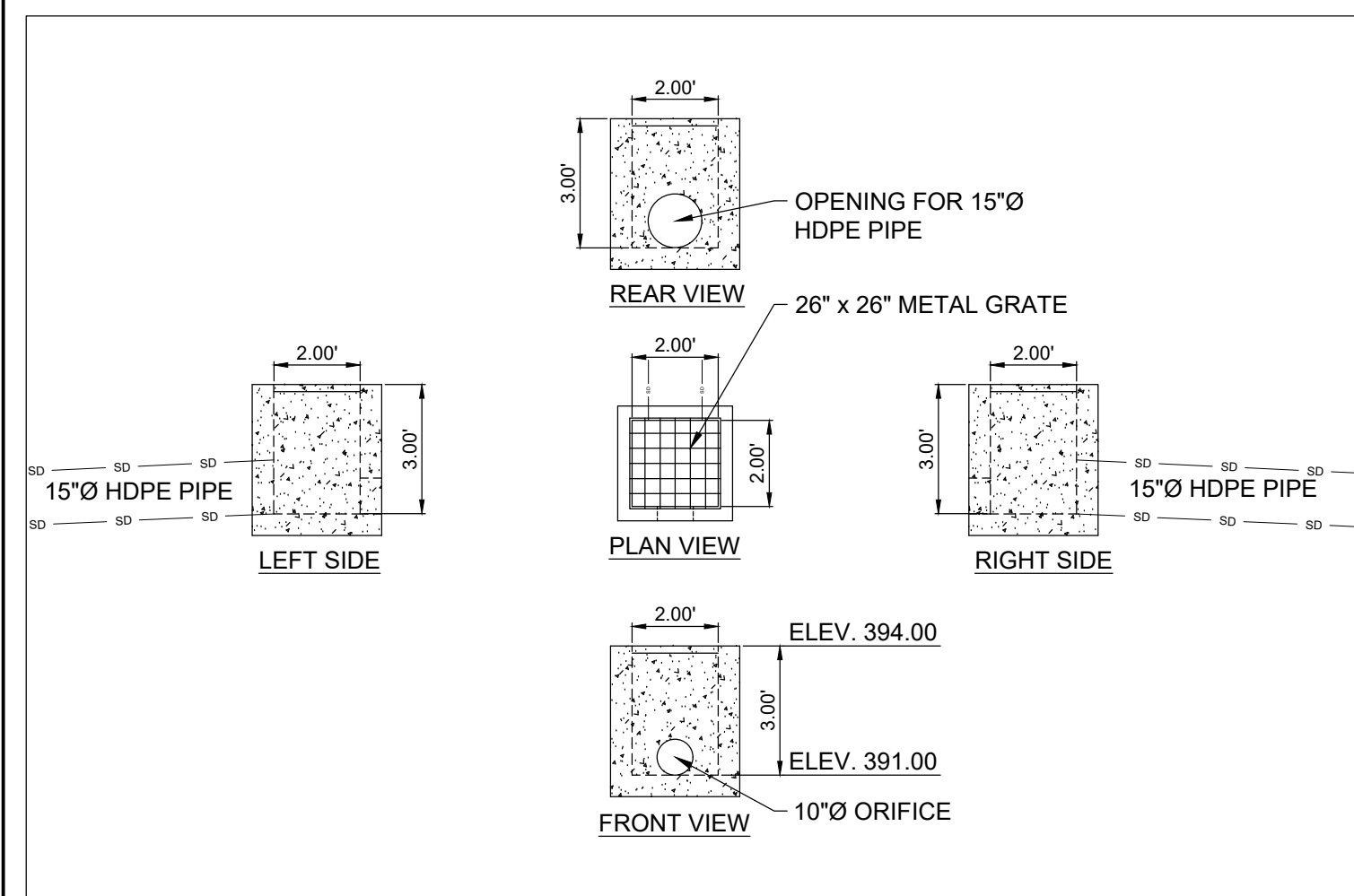


5 PIPE BEDDING DETAIL
SCALE: NTS

STORM STRUCTURE TABLE									
FROM		TO		PIPE LENGTH	SLOPE	DIAMETER	TYPE		
CODE	INV. EL.	RIM EL.	CODE					INV. EL.	RIM EL.
CB A1	393.76	396.43	EX. CB1	393.18	398.66	58 FT	1.00%	15-IN	HDPE N-12
EX. CB1	393.18	398.66	CB A2	392.81	396.79	92 FT	0.40%	15-IN	HDPE N-12
CB A2	392.81	396.79	CB A3	392.23	396.54	144 FT	0.40%	15-IN	HDPE N-12
CB A3	392.23	396.54	EX. CB3	391.38	395.34	212 FT	0.40%	15-IN	HDPE N-12
EX. CB3	391.38	395.34	EX. HW4	391.17	N/A	30 FT	0.70%	18-IN	HDPE N-12
CB A4	395.00	398.00	EX. CB1	393.18	398.66	51 FT	3.57%	12-IN	HDPE N-12
CB B1	394.05	396.05	CB B2	393.09	395.69	96 FT	1.00%	12-IN	HDPE N-12
CB B2	393.09	395.69	HW B3	392.97	N/A	12 FT	1.00%	12-IN	HDPE N-12
CB C1*	391.00	394.00	HW C2	388.00	N/A	37 FT	8.11%	15-IN	HDPE N-12
HW D1	386.60	N/A	HW D2	386.80	N/A	77 FT	0.26%	30-IN	CMP
RD1*	398.00	N/A	CB A4	395.00	398.00	30 FT	10.00%	8-IN	PVC SCH. 40
RD2*	396.00	N/A	EX. CB3	391.38	395.34	82 FT	5.63%	8-IN	PVC SCH. 40
RD3*	396.00	N/A	CB B2	393.09	395.69	72 FT	4.04%	6-IN	PVC SCH. 40

CB = CATCH BASINS SHALL BE 24" X 24" CONCRETE BOXES WITH JOHN BOUCHARD AND SONS 26" GRATE OR EQUIVALENT.
 HW = HEADWALLS SHALL BE KYTC EQUIVALENT HEADWALLS
 NOTE: BY OTHERS - SHOWN FOR REFERENCE ONLY.
 *NOTE: CB C1 IS AN OUTLET CONTROL STRUCTURE. SEE DETAIL 6 SHEET 3.1.

7 STORM STRUCTURE TABLE



6 OUTLET STRUCTURE DETAIL
SCALE: 1" = 4'-0"

STORM WATER RUNOFF
CALCULATION SUMMARY (TO BASIN)

METHOD OF STORM WATER CALCULATIONS:
SCS Method, 24 Hr Design Storms: 1, 2, 5, 10, 25, 50 and 100 Year

PRE-DEVELOPMENT		POST-DEVELOPMENT (BEFORE DETENTION)		ROUTED THRU BASIN	
Total Drainage Area = 1.35 Acres		Total Drainage Area = 1.35 Acres		Bottom El. = 391.00, Top El. 396.00	
Cn = 87, Tc = 14.4 min.		Cn = 83, Tc = 2.1 min.		Storage Volume = 16,676 cft	
PEAK DISCHARGE		PEAK DISCHARGE		PEAK DISCHARGE & ELEVATION	
Year	Q(cfs)	Year	Q(cfs)	Year	Peak El.
1	2.85	1	3.68	1	2.45
2	3.74	2	4.95	2	2.82
5	5.30	5	7.21	5	3.30
10	6.08	10	8.35	10	3.50
25	7.60	25	10.58	25	3.86
50	8.85	50	12.42	50	4.12
100	10.19	100	14.38	100	5.91

OUTLET STRUCTURE:
15" Culvert @ I.E. 391.00
10" Orifice @ I.E. 391.00
24" x 24" Orifice @ I.E. 394.00
Emergency Spillway @ Elev. 395.00

STORM WATER RUNOFF
CALCULATION SUMMARY (NOT TO BASIN)

METHOD OF STORM WATER CALCULATIONS:
SCS Method, 24 Hr Design Storms: 1, 2, 5, 10, 25, 50 and 100 Year

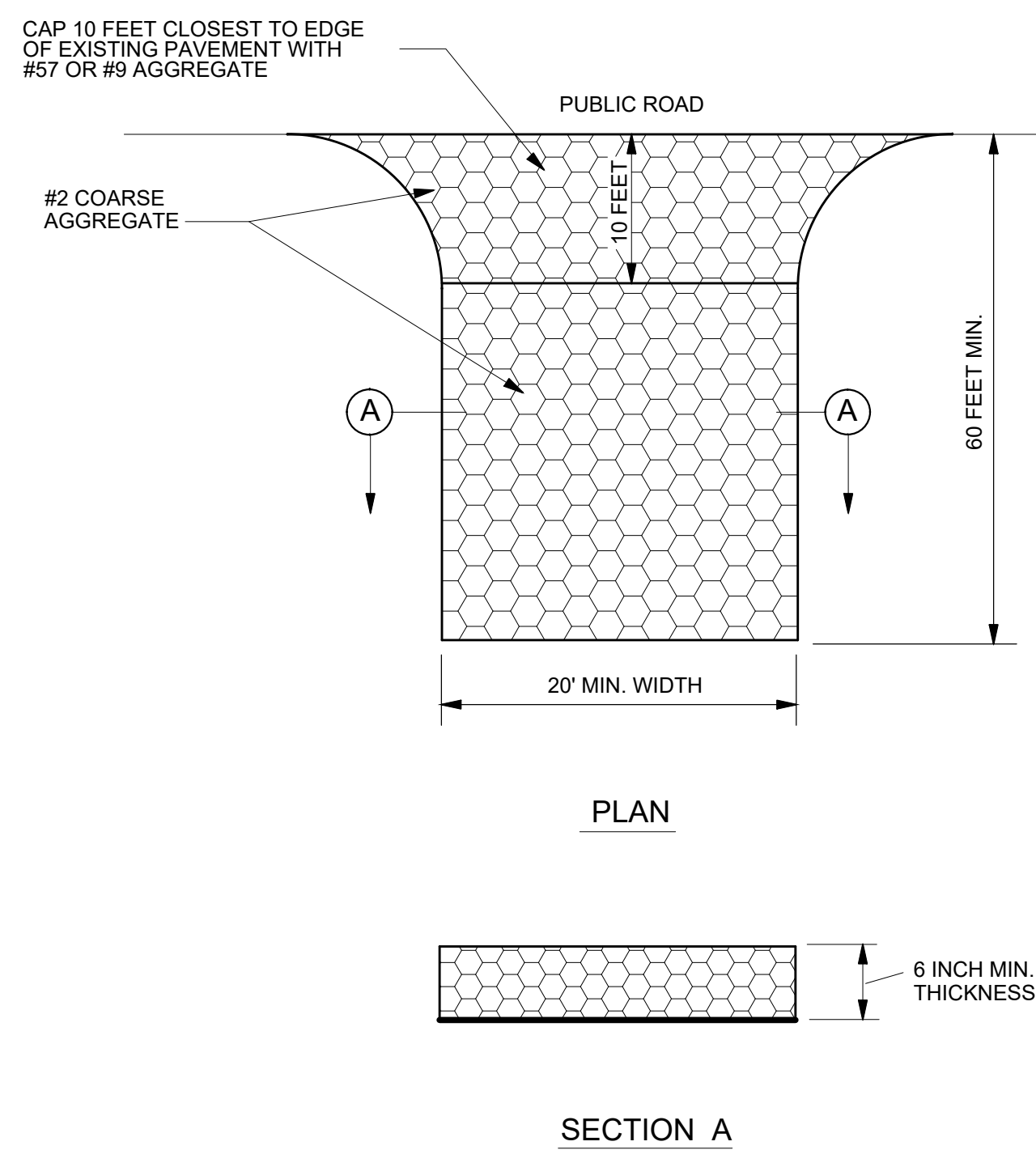
PRE-DEVELOPMENT		POST-DEVELOPMENT	
Total Drainage Area = 1.52 Acres		Total Drainage Area = 1.52 Acres	
Cn = 95, Tc = 2.5 min.		Cn = 89, Tc = 2.7 min.	
PEAK DISCHARGE		PEAK DISCHARGE	
Year	Q(cfs)	Year	Q(cfs)
1	6.39	1	5.23
2	7.84	2	6.70
5	10.33	5	9.24
10	11.56	10	10.50
25	13.95	25	12.95
50	15.91	50	14.95
100	18.02	100	17.10

STORM WATER RUNOFF
CALCULATION SUMMARY (TOTAL SITE)

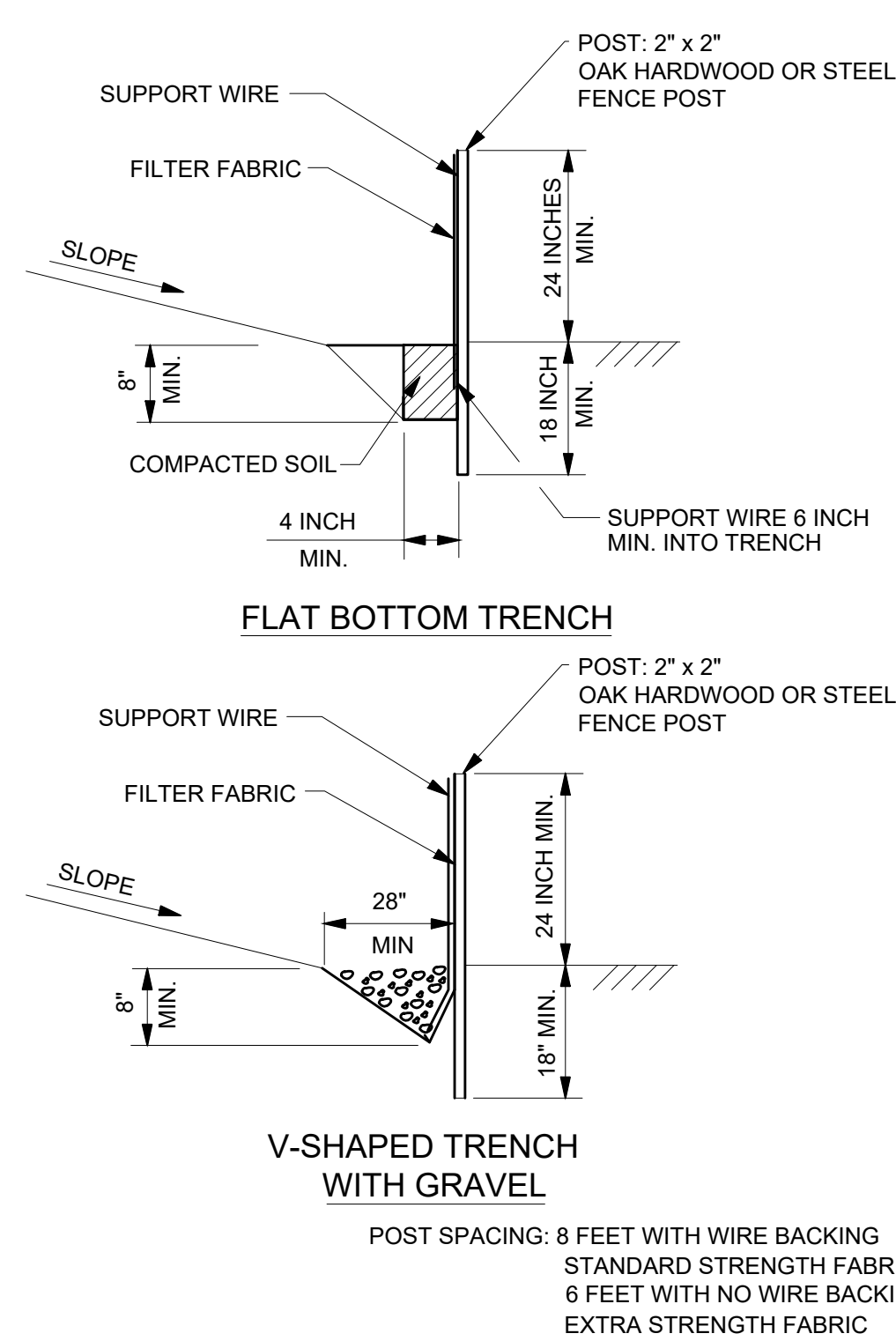
METHOD OF STORM WATER CALCULATIONS:
SCS Method, 24 Hr Design Storms: 1, 2, 5, 10, 25, 50 and 100 Year

PRE-DEVELOPMENT		POST-DEVELOPMENT	
Year	Q(cfs)	Year	Q(cfs)
1	9.24	1	7.68
2	11.58	2	9.52
5	15.63	5	12.54
10	17.64	10	14.00
25	21.55	25	16.78
50	24.76	50	19.07
100	28.21	100	23.01

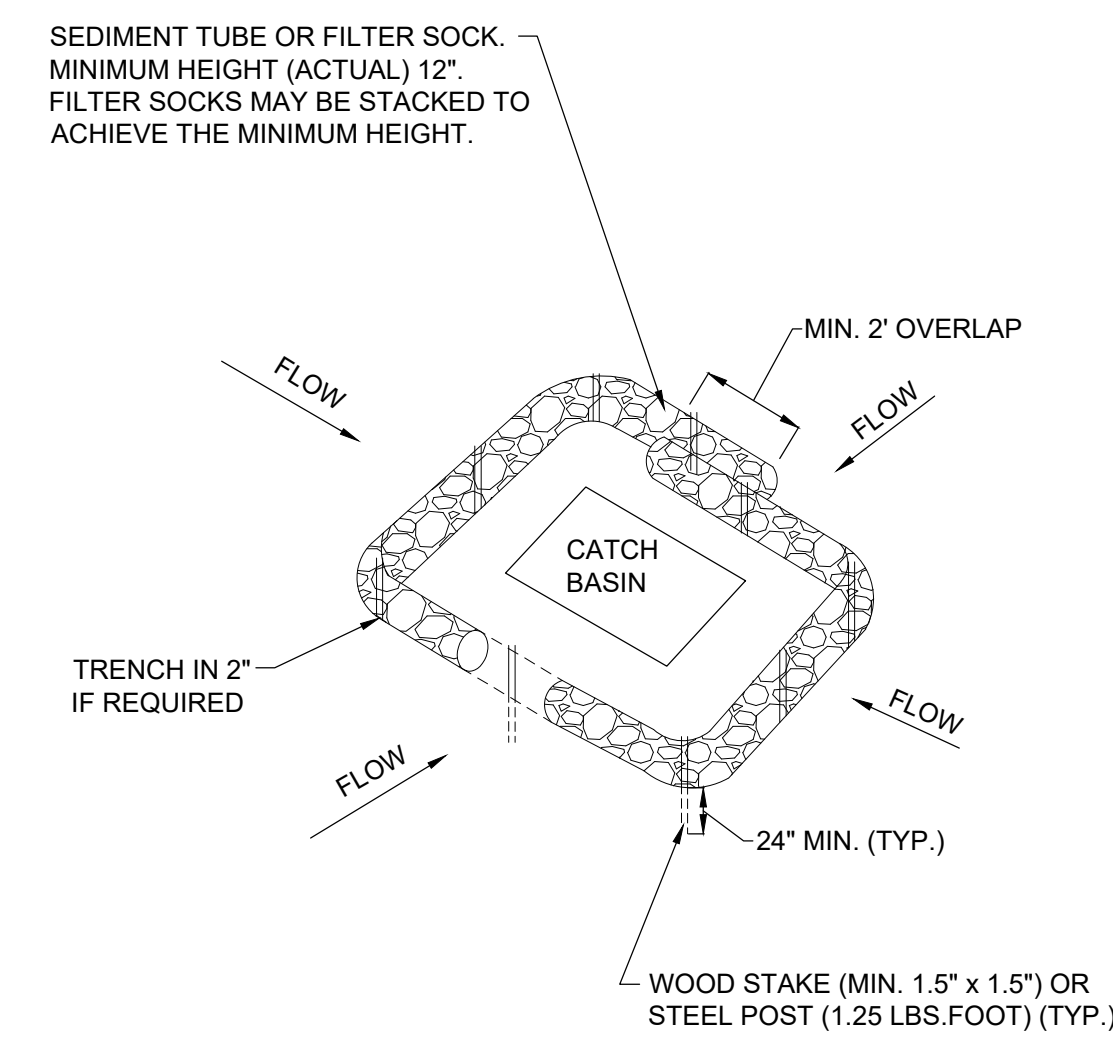
8 STORMWATER RUNOFF CALCULATIONS



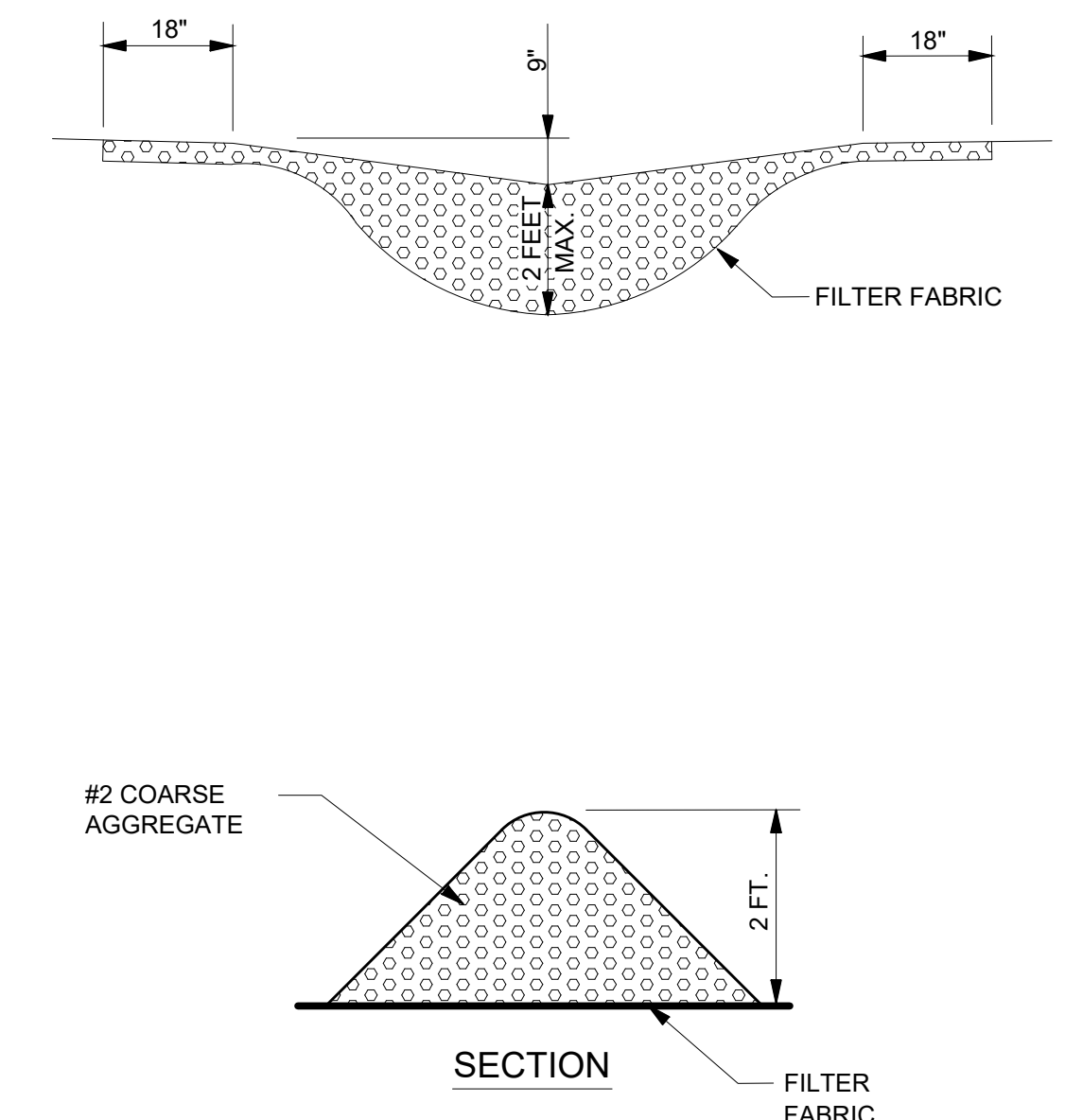
1 TEMPORARY GRAVEL
CONSTRUCTION ENTRANCE/EXIT PAD
NTS



2 SILT FENCE
NTS



3 INLET PROTECTION
NTS



4 STONE CHECK DAM
NTS

KENNER RANDOLPH
ENGINEERING & SURVEYING
199 NORTH OWEN STREET
RUSSELLVILLE, KY 42276
270-717-1131

ENGINEER:
BSR
DWN BY:
BSR
FINAL SURVEY DATE:
2/17/23
PLOT DATE:
8/8/2023
FILE NAME:
2A/358
21102716

CLIENT ADDRESS:
NEWCOMB COURT
BARDSTOWN, KY 40004

PROPERTY OWNER ADDRESS:
OWEN THOMPSON, JR.
P.O. BOX 5
BEAVER DAM, KY 42320

DETAILS
FIVESTAR #231
U.S. HIGHWAY #231
HARTFORD, KY 42347

SHEET
IDENTIFICATION
C3.1