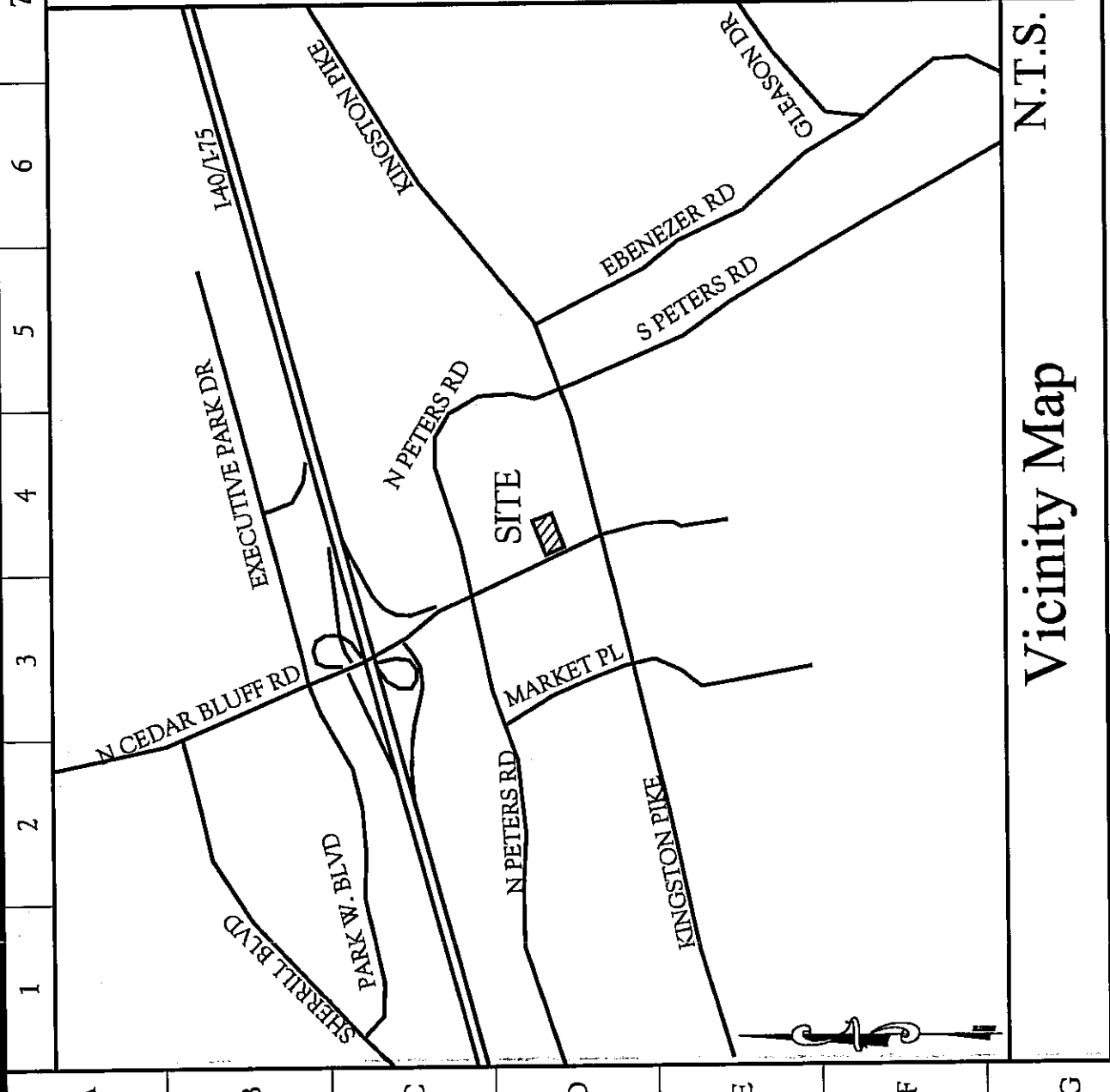




Use on Review
for

Lot #2 Shops

N Cedar Bluff Road and Kingston Pike
Knoxville, Tennessee

Developed By:
Horne Properties, Inc.
412 N. Cedar Bluff Road, Suite 205
Knoxville, Tennessee 37923
(865) 560-1100

All necessary inspections and/or certifications required by codes and/or utility companies shall be performed prior to the final connection of services.

CONTACTS				
Water & Sewer	Gas	Electric	Department of Transportation	Telephone
First Utility District of Knox County Knoxville, Tennessee 37922 Phone: (865) 686-9741 Fax: (865) 675-4955	Knoxville Utilities Board 4505 Middlebrook Pike Knoxville, TN 37919 Contact: (865) 558-2555	Knoxville Utilities Board 4505 Middlebrook Pike Knoxville, TN 37919 Contact: (865) 558-2555	T.D.O.T. 7345 Leigall Lane Knoxville, TN 37914 Phone: (865) 594-2400	412-9733 Arlene Drive Knoxville, TN 37922 Contact: Shannon Simms Phone: (865) 539-8596
City				
City of Knoxville 400 Main St., Room 480 Knoxville, TN 37902 Phone: (865) 215-2148 Fax: (865) 215-2631				

Parcel ID: 132 028
Block Number: 46104

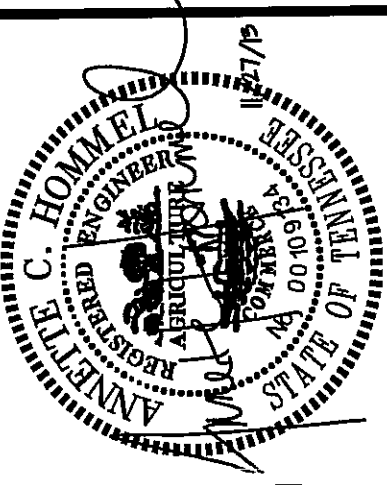
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11-27-13

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Lot #2 Retail Shops
N Cedar Bluff Road and Kingston Pike
Knoxville, Tennessee

Developer: Horne Properties, Inc.

Use on Review - Cover Sheet



10215 Technology Drive, Suite 304
Knoxville, TN 37932
Phone: (865) 777-4160
Fax: (865) 777-4189

Site Infrastructure Transportation Engineers
INCORPORATED

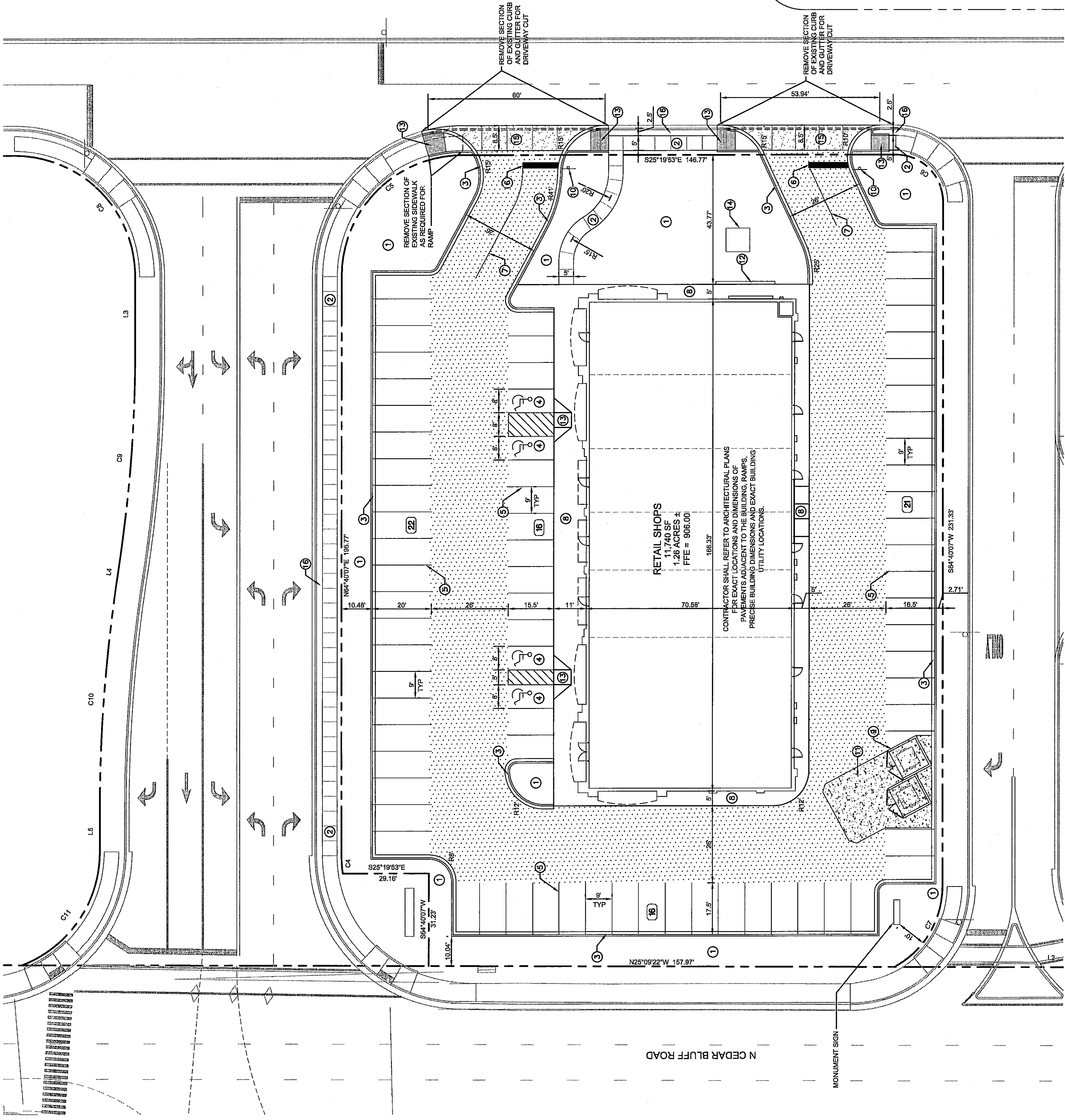
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INDEX TO DRAWINGS

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C3.0	Site Grading and Drainage Plan	11/27/13
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31



PARKING DATA	
GROSS BUILDING AREA:	12,850 SF
PARKING SPACES PROVIDED:	71 SPACES
STANDARD SPACES:	71 SPACES
SPACES WITH CURB AND GUTTER:	71 SPACES
SPACES WITH CURB AND GUTTER:	71 SPACES
PARKING RATIO:	5.79
SPACES/1000 SF GROSS BUILDING AREA:	65 SPACES
SPACES/1000 SF G.L.A.	
PROPERTY DATA:	
LOT AREA:	1.26 ACRES
ZONING:	PC-1
BUILDING SETBACKS:	50'
PERIPHERAL BOUNDARY:	50'
FRONT:	50'
REAR:	0'
LEGEND:	
1	LANDSCAPE AREAS/LAND
2	CONCRETE SIDEWALK (SEE DETAIL SHEET)
3	18" CONCRETE CURB & GUTTER (SEE DETAIL SHEET)
4	HANDICAP SPACE WITH PAINTED ACCESSIBLE SYMBOL (SEE DETAIL SHEET)
5	4" WIDE WHITE PAINTED STOP BAR (SEE DETAIL SHEET)
6	2" WIDE WHITE PAINTED STOP BAR (SEE DETAIL SHEET)
7	4" WIDE PAINTED SOLID YELLOW LINE
8	CONCRETE SIDEWALK (SEE ARCHITECTURAL PLANS)
9	DUMPSTER ENCLOSURE (SEE ARCHITECTURAL PLANS)
10	R 1:1 "STOP" SIGN (24"x24") (SEE DETAIL SHEET)
11	HEAVY DUTY CONCRETE DUMPSTER ENCLOSURE APRON
12	SCREEN WALL (SEE ARCHITECTURAL PLANS)
13	ACCESSIBLE RAMP (SEE DETAIL SHEET)
14	TRANSFORMER PAD
15	CONCRETE SIDEWALK AT DRIVEWAY CROSSING - 6" THICK X 6'-6" WIDE
16	CONCRETE SIDEWALK AT DRIVEWAY CROSSING - 6" THICK X 6'-6" WIDE
17	CONCRETE SIDEWALK AT DRIVEWAY CROSSING - 6" THICK X 6'-6" WIDE
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29	CONCRETE SIDEWALK AT DRIVEWAY CROSSING - 6" THICK X 6'-6" WIDE
30	CONCRETE SIDEWALK AT DRIVEWAY CROSSING - 6" THICK X 6'-6" WIDE
31	CONCRETE SIDEWALK AT DRIVEWAY CROSSING - 6" THICK X 6'-6" WIDE

CURVE	LENGTH	RADIUS	BEARING	CHORD
C1	64.40'	41.00'	N75°16'53"W	57.88'
C2	64.40'	41.00'	N75°16'53"W	57.88'
C3	25.13'	16.00'	N19°40'07"E	22.93'
C4	33.25'	31.00'	S84°26'05"E	31.86'

- SITE PLAN NOTES:**
- ALL WORK AND MATERIALS SHALL COMPLY WITH ALL CITY REGULATIONS AND CODES AND O.S.H.A. STANDARDS.
 - ALL DISTURBED AREAS NOT BUILT NOR PAVED UPON ARE TO RECEIVE FOUR INCHES OF TOPSOIL, SEED, MULCH, AND WATER UNTIL A HEALTHY STAND OF GRASS IS ESTABLISHED.
 - ALL ISLANDS WITH CURB AND GUTTER SHALL BE LANDSCAPED. THOSE ISLANDS ARE TO HAVE 18" CURB AND GUTTER.
 - ALL CURBED AND STRIPPED RADII ARE TO BE 5' UNLESS OTHERWISE NOTED.
 - ALL DIMENSIONS AND RADII ARE TO FACE OF CURB OR FACE OF BUILDING UNLESS OTHERWISE NOTED.
 - BUILDING DIMENSIONS SHOWN ON SITE LAYOUT PLAN ARE NOMINAL DIMENSION ONLY INTENDED FOR USE IN DETERMINING APPROXIMATE SQUARE FOOTAGES. SEE ARCHITECTURAL PLANS FOR ACTUAL DIMENSIONS OF BUILDING CONSTRUCTION.
 - EXISTING STRUCTURES WITHIN THE CONSTRUCTION LIMITS ARE TO BE ABANDONED, REMOVED, OR RELOCATED AS NECESSARY. ALL COST SHALL BE INCLUDED IN BASE BID.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATIONS, INCLUDING BUT NOT LIMITED TO ALL UTILITIES, STORM DRAINAGE SIGNS, FENCING, ETC. AS REQUIRED. ALL WORK SHALL BE IN ACCORDANCE WITH CITY ORDINANCES AND REGULATIONS AND SHALL BE APPROVED BY SUCH. ALL COST SHALL BE INCLUDED IN BASE BID.
 - SITE BOUNDARY, TOPOGRAPHY, UTILITY AND ROAD INFORMATION WAS TAKEN FROM DESIGN PLANS FOR KINGSTON CORNER BY SITE, INC. DATED 08/19/13.
 - THE SITEWORK FOR THIS PROJECT SHALL MEET OR EXCEED THE PROJECT SITE WORK SPECIFICATIONS AND STANDARDS AS REQUIRED BY THE CITY OF KNOXVILLE. ALL CODES AND UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO ANNOUNCED BUILDING POSSESSION AND THE FINAL CONNECTION OF SERVICES.
 - IN ORDER TO PREVENT FLOODING THE CONTRACTOR SHALL INSTALL REVERSE-PITCH GUTTER AT ALL LOCATIONS WHERE ASPHALT SLOPES AWAY FROM GUTTER.
 - ELECTRICALS SHALL BE PROVIDED TO THE GENERAL CONTRACTOR AT HIS REQUEST FOR LAYOUT PURPOSES AFTER THE BID IS AWARDED.

SITE PAVING NOTES:

PAVING ELEVATION TOLERANCE
FINAL SUBGRADE SHALL BE INSPECTED BY PAVING CONTRACTOR FOR REQUIRED ELEVATION AND ADEQUATE COMPACTION BEFORE COMMENCING ANY PAVING ACTIVITY. PAVING ELEVATION SHALL NOT HAVE MORE THAN TOLERANCE IN ANY 10' INCREMENT.

PAVING THICKNESS TOLERANCE
PAVING THICKNESS AT ANY ONE CORNER SHALL NOT BE LESS THAN 80% OF SPECIFIED THICKNESS. THE AVERAGE OF ALL APPROVED TESTS MUST BE AT LEAST EQUAL TO THE SPECIFIED THICKNESS. ANY AREA FOUND TO BE LESS THAN 80% SPECIFIED THICKNESS MAY FALL BELOW SPECIFIED MINIMUMS. ANY AREA FOUND TO BE LESS THAN 80% SPECIFIED THICKNESS SHALL BE OVERLAIN WITH ASPHALT AS DIRECTED BY SITE, INC.

TESTING DURING PLACEMENT
GENERAL CONTRACTOR SHALL PERFORM SEVERAL SPOT CHECKS OF PAVING BASE THICKNESS PRIOR TO INSTALLATION OF ANY ASPHALTIC OR CONCRETE PAVING. DENSITY TESTS SHALL BE PERFORMED ON EACH LIFT AT THE RATE OF ONE TEST PER 10,000 SQUARE FEET.

CONTRACTOR SHALL PROVIDE FOR TESTING OF COMPLETED PAVING INSTALLATION FOR COMPACTION AND THICKNESS. CONTRACTOR SHALL PROVIDE FOR TESTING OF COMPLETED PAVING INSTALLATION FOR COMPACTION AND THICKNESS. CONTRACTOR SHALL REPLACE ALL NON-CONFORMING MATERIAL AT HIS OWN EXPENSE.

TESTING SHALL BE PERFORMED ONLY BY AN INDEPENDENT TESTING AGENT APPROVED BY SITE, INC. TEST HOLES NOT SPOTTED BY SITE, INC. MAY NOT BE CONSIDERED ACCEPTABLE. ALLOW A MINIMUM OF SIXTEEN CORE TESTS TO BE LOCATED ONLY BY WRITTEN INSTRUCTION BY SITE, INC.

THE PAVING CONTRACTOR SHALL REPAIR ALL CORING HOLES BY FILLING HOLES WITH CONCRETE FLUSH TO TOP OF PAVEMENT.

ASPHALTIC PAVING MATERIALS
MATERIAL AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE SPECIFICATION FOR HIGHWAY PAVEMENT OF THE STATE IN WHICH THE PROJECT IS LOCATED. REFER TO PAVING MATERIALS LEGEND.

CONCRETE PAVING
CONCRETE PAVING SHALL BE 4000 PSI 28 DAY STRENGTH 2" - 3" SLUMP. NO CURB DEFORMATION 3% - 5% AIR ENTRAINED. INSTALL WITH RC-70 TACK COAT EMULSION OVER ASPHALT.

PROVIDE CYLINDER BREAK TEST - 3600 L.B. OF CURRING OR 1-DAY FOUR WITH BREAKS - 1 @ 7 DAYS, 2 @ 28 DAYS. COMPLY WITH ASTM C-31 AND ASTM C-38. ALSO PROVIDE ONE SLUMP TEST PER 500 L.F. OF CURRING OR 1-DAY FOUR.

PROVIDE EXPANSION JOINT @ 50' O.C. (MAX) AND CONTROL JOINTS @ 20' O.C. (MAX) AT ALL CONCRETE PAVING AREAS. REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.

PAVEMENT MARKING
PROVIDE PAVEMENT MARKING AS SHOWN ON THE DRAWINGS. STRIPING SHALL BE 4" WIDE OR AS NOTED OTHERWISE ON THE PLANS. ALL MARKINGS SHALL BE THERMOPLASTIC AND SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MUTCD AND TDDT STANDARD DRAWINGS FOR ROAD AND BRIDGE CONSTRUCTION, MARCH 1, 2008 (SECTION 818.23).

CONTRACTOR SHALL RESOLVE ALL EXISTING PAVEMENT MARKINGS THAT DO NOT CONFORM TO TDDT STANDARDS FOR MODIFIED INTERSECTION.

TEMPORARY PAVEMENT LINE MARKINGS ON INTERMEDIATE LAYERS OF PAVEMENT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MUTCD AND TDDT STANDARD DRAWINGS FOR ROAD AND BRIDGE CONSTRUCTION, MARCH 1, 2008 (SECTION 818.23).

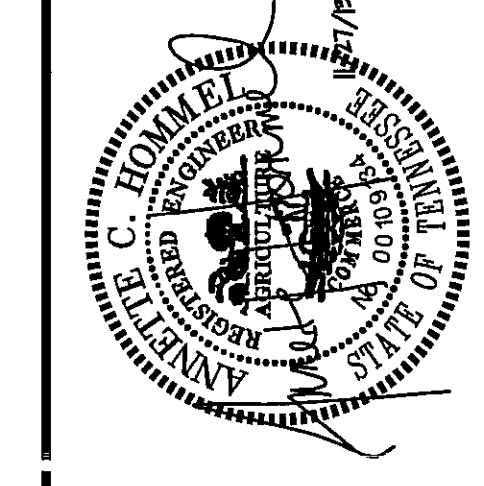
ALL MARKINGS SHALL CONFORM TO THE LATEST EDITION OF THE MUTCD AND TDDT STANDARD DRAWINGS FOR ROAD AND BRIDGE CONSTRUCTION, MARCH 1, 2008 (SECTION 818.23).

REFER TO SHEETS C8.2 AND C8.3 FOR SITE DETAILS.

PAVING MATERIALS SCHEDULE	
STANDARD DUTY ASPHALT PAVING	
AGGREGATE BASE COURSE*	8" TDDT TYPE A, CLASS A & GRADING D
BITUMINOUS ASPHALT BASE MIX**	2" TDDT GRADING B
BITUMINOUS ASPHALT SURFACE MIX***	1 1/2" TDDT GRADING E
PRIME COAT	0.25 GAL PER SQ. YD. OVER TOP BASE LIFT
HEAVY DUTY ASPHALT PAVING	
AGGREGATE BASE COURSE*	8" TDDT TYPE A, CLASS A & GRADING D
BITUMINOUS ASPHALT BASE MIX**	2 1/2" TDDT GRADING BM
BITUMINOUS ASPHALT SURFACE MIX***	1 1/2" TDDT GRADING E
PRIME COAT	0.25 GAL PER SQ. YD. OVER TOP BASE LIFT
LIGHT DUTY CONCRETE PAVING	
AGGREGATE BASE COURSE	4" TDDT TYPE A, CLASS A & GRADING D
PORTLAND CEMENT CONCRETE	6" PCC 4000 PSI TYPE I WITH #44 W4.0 x W4.0 WWF
HEAVY DUTY CONCRETE PAVING	
AGGREGATE BASE COURSE	4" TDDT TYPE A, CLASS A & GRADING D
PORTLAND CEMENT CONCRETE	8" PCC 4000 PSI TYPE I WITH #44 W4.0 x W4.0 WWF
*REFER TO TDDT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", SECTION 803.05	
**REFER TO TDDT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", SECTION 803.05	
***REFER TO TDDT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", SECTION 441	

10215 Technology Drive, Suite 304
Knoxville, TN 37932
Phone: (865) 777-4160
Fax: (865) 777-4189

Site Infrastructure Transportation Engineers
INCORPORATED



Use On Review - Site Layout Plan

Kingston Corner - Lot #2 Retail Shops

N Cedar Bluff Road and Kingston Pike

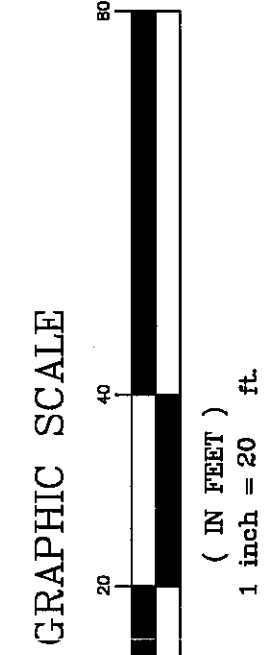
Knoxville, Tennessee

Developer: Home Properties, Inc.

REVISIONS	
NO.	DATE
1	11/27/13
Revised per MFC comments	
CHECKED BY: RCH	
DATE: 10/26/13	
FILE: 1810 Shops-Layout	

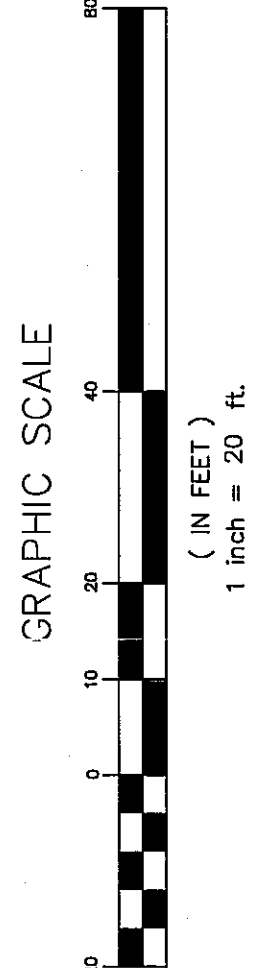
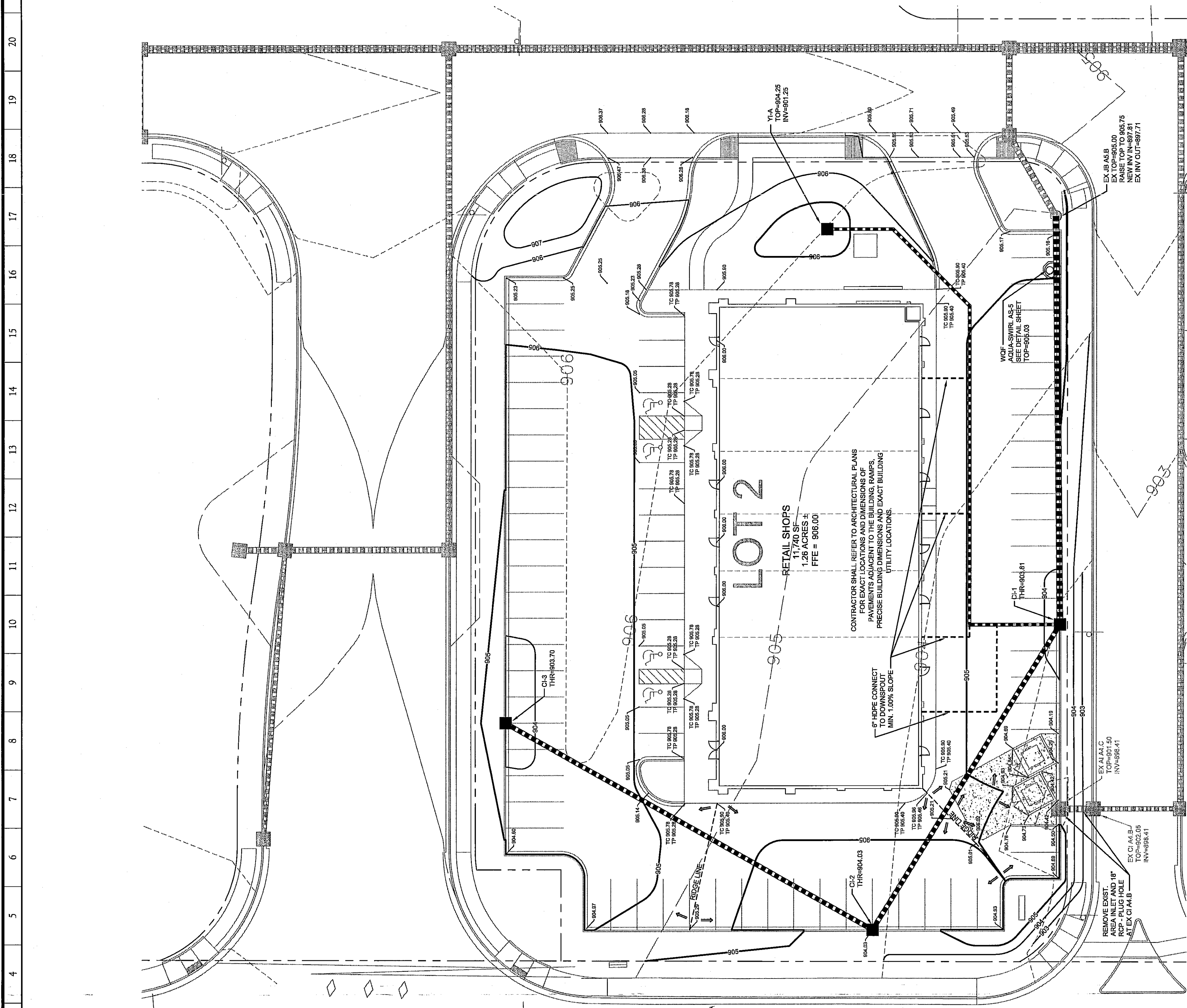
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Know what's below.
Call before you dig.



12-C-13-UK
REVISED
11-27-13

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STORM PIPE MATERIAL	22	23	24	25
ALL STORM PIPE LOCATED WITHIN RIGHT-OF-WAY SHALL BE RCP. ALL OTHER STORM PIPE SHALL BE SMP OR RCP UNLESS OTHERWISE NOTED ON THE PLAN. APPROVED STORM PIPE IS AS FOLLOWS:				
A. REINFORCED CONCRETE PIPE (RCP)				
ASTM C76 CLASS II UNLESS NOTED OTHERWISE ON DRAWINGS. INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.				
1. GAGSETS: ASTM B18 TYPE B OR ASTM C43, INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.				
2. JELMED END SECTIONS: ASTM C76 OR FOR SECTIONS WITH TOE WALL, ADEQ END SECTIONS.				
B. SPIRAL REIN METAL PIPE:				
REQUIREMENTS OF ASTM A770 TYPE I OR ASTM A770 COATINGS SHALL MEET REQUIREMENTS OF ASTM A929 AND SHALL BE ALUMINIZED. USE ONLY WHEN SPECIFICALLY INDICATED ON DRAWINGS.				
C. CORRUGATED "HUSKEY" TYPE HANGS AND "O" RING GASSETS IN ACCORDANCE WITH PIPE MANUFACTURERS INSTALLATION REQUIREMENTS				
D. PIPE GAUGE SHALL BE AS SPECIFIED ON CONSTRUCTION DRAWINGS OR PERMANENT RECORDS. IF NOT SPECIFIED, THE FOLLOWING APPLIES TO 36" DIAMETER ROUND PIPE: 18 GAUGE (.062), 36" TO 48" ROUND PIPE: 14 GAUGE (.079), 48" TO 72" ROUND PIPE (.054) (.0169), 15" TO 30" DIA. GALV. STEEL PIPE: 16 GAUGE (.063), 30" TO 48" DIA. GALV. STEEL PIPE: 14 GAUGE (.079), 48" TO 72" DIA. GALV. STEEL PIPE: 12 GAUGE (.087). GAUGES FOR LARGER DIAMETERS SHALL BE INDICATED ON THE DRAWINGS.				
E. STANDARD CORRUGATED STEEL PIPE (CWP OR CRP) SHALL NOT BE USED UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS.				
F. ACCEPTABLE MANUFACTURERS: PROVIDE THE FOLLOWING OR APPROVED EQUAL:				
G. MAX FLOW BY THOMPSON VALVE CO., INC.				
H. MAX FLOW BY SOUTHEAST VALVE, INC.				
I. MAX FLOW BY REGIS VALVE, INC.				
J. MAX FLOW BY THOMPSON VALVE, INC.				

LEGEND

	EXISTING CONTOUR LINE
	PROPOSED CONTOUR LINE
	PROPOSED SPOT ELEVATION
	EXISTING STORM SEWER PIPE
	PROPOSED STORM SEWER PIPE
	EXISTING 24" BASIN/CURB INLET
	PROPOSED 24" CUB INLET
	PROPOSED 24" YARD INLET
	WATER QUALITY FACILITY
	DRAINAGE SLOPE ARROW

STORM PIPE TABLE:						26	27	28	29	30	31
Line#	Line Length (ft)	Line Size (in)	Line Slope (%)	Invert Down (ft)	Invert Up (ft)	Pipe Material					
EX-JB - WOF	19	24	0.54	887.81	887.91	SRMP, RCP, OR HDPE					
WOF - CH1	123	24	0.54	887.91	888.57	SRMP, RCP, OR HDPE					
CH1 - C+2	122	18	0.50	888.77	890.38	SRMP, RCP, OR HDPE					
C+2 - C+3	16	18	0.53	890.38	891.01	HDPE					
C+3 - W+G	201	12	0.53	891.04	904.25	HDPE					

-- STORM PIPE MATERIAL SHALL BE SRMP, RCP, OR HDPE, UNLESS OTHERWISE NOTED ON THE PLAN

-- REFER TO PROJECT SPECIFICATIONS FOR APPROVED PIPE.

STORM DRAIN GRATE SCHEDULE:

TYPE		USE	MODEL
C	SINGLE CURB INLET	JOHN BOUCHARD & SONS #2440D, WITH 24X52 CURB BACK	
Y1	YARD INLET	NYLOPLAST 12" INLINE DRAIN WITH 24" BASIN AND DOME GRATE	

SITE GRADING NOTES:

- CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF EXISTING STRUCTURES INCLUDING REMOVAL OF ANY EXISTING UTILITIES SERVING THE STRUCTURE. UTILITIES ARE TO BE REMOVED TO THE

2. THE CONTRACTOR SHALL COORDINATE WITH THE CITY OF KNOXVILLE TO OBTAIN AN ELEVATION OF THE EXISTING GRADE AT THE PROPOSED LOCATION. THESE POINTS SHALL BE BASED ON RECORDS OF THE COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE UTILITY LOCATOR TO OBTAIN THE EXISTING UTILITY LOCATIONS. THE CONTRACTOR SHALL RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES AND PAY ALL FEES.
3. THE CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY EXISTING STRUCTURES THAT ARE DAMAGED DURING, AND AS A RESULT OF, CONSTRUCTION. REPAIRS AND/OR REPLACEMENT SHALL BE MADE AS NECESSARY TO RETURN ALL EXISTING STRUCTURES TO ORIGINAL OR BETTER CONDITION. REPAIRS AND/OR REPLACEMENTS SHALL BE AT THE CONTRACTORS EXPENSE.
4. THE CONTRACTOR SHALL ADHERE TO ALL TERMS & CONDITIONS AS OUTLINED IN THE GENERAL NOTES. THE PERMIT FOR STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
5. EXISTING AND PROPOSED GRADE CONTOUR INTERVALS SHOWN AT 1 FOOT.
6. ALL CUT OR FILL SLOPES SHALL BE 2:1 OR FLATTER UNLESS OTHERWISE NOTED.
7. ALL UNSURFACED AREAS DISTURBED BY GRADING OPERATIONS SHALL RECEIVE A 4 INCHES OF TOP SOIL. THE CONTRACTOR SHALL GRASS DISTURBED AREAS PER GRASSING SCHEDULE UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.
8. THE CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.
9. CONTRACTOR SHALL ADJUST AND/OR SAW CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH, AND CONTINUOUS GRADE.
10. TOPOGRAPHIC INFORMATION TAKEN FROM DESIGN PLANS FOR KINGSTON CORNER BY SITE SURVEY SHALL BE USED TO DETERMINE THE EXISTING GRADE. THE CONTRACTOR SHALL VERIFY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, THE EXISTING GRADE. AT HIS EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR AND SUBMIT IT TO THE OWNER FOR REVIEW.
11. VERTICAL DATUM BASED ON NAVD 84, CITY OF KNOXVILLE CONTROL MONUMENT #246.
12. CONTRACTOR SHALL INSERT, REPAIR, AND CLEAN ALL EXISTING DRAINAGE STRUCTURES AND SPRINGS. ALL SEDIMENT AND DEBRIS SHALL BE REMOVED.
13. ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED.
14. ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT AND SHALL HAVE TRAFFIC BEARING RIMS & COVERS. MANHOLES IN UNPAVED AREAS SHALL BE 6 INCHES ABOVE FINISH GRADE. LIDS SHALL BE LABELED "STORM SEWER".
15. ALL STORM STRUCTURES SHALL HAVE A SMOOTH UNIFORM POURED MORTAR INVERT FROM INVERT TO IN INVERT OUT.
16. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO SAME.
17. MINIMUM COVER FROM TOP OF STORM PIPE TO FINISH GRADE SHALL BE 2 FEET.
18. HEADWALLS SHALL BE CONSTRUCTED AND/OR INSTALLED IMMEDIATELY FOLLOWING INSTALLATION OF PIPE TO MINIMIZE POSSIBLE PIPE DAMAGE AND FACILITATE FINAL GRADING.
19. RIP-RAV FOR EROSION PROTECTION SHALL BE PROVIDED AT ALL STORMWATER DISCHARGE LOCATIONS.
20. WATER, SEWER, AND STORM LINES SHALL BE KEPT 10 FEET APART HORIZONTALLY AND 18 INCHES APART VERTICALLY WHEN CROSSING (OUTSIDE EDGE OF PIPE TO OUTSIDE EDGE OF PIPE), UNLESS NOTED OTHERWISE.
21. WHEN CROSSING, WATER LINES SHALL BE CONSTRUCTED ABOVE SEWER LINES AND STORM LINES, UNLESS A LACK OF DEPTH REQUIRES THE SEWER OR STORM LINE NECESSITATES CONSTRUCTION OF THE WATER LINES OVER THE SEWER OR STORM LINE. IN THE EVENT OF A VERTICAL CONFLICT, THE SEWER LINES SHALL BE DUCTILE IRON PIPE WITH MECHANICAL JOINTS AT LEAST 10 FEET ON BOTH SIDES OF THE CROSSING.
-STORM LINES SHALL BE 36" DIA. SLOTTED CASKETS WITH HUGGER BAND COUPLING AT LEAST 10 FEET ON BOTH SIDES OF THE CROSSING.
-WATER LINES SHALL BE DUCTILE IRON PIPE WITH MECHANICAL JOINTS AND APPROPRIATE TRUNTS BLOCKING MEETING THE REQUIREMENTS OF ANSI 21.10 OR 21.11 (AWWA C151/C150) CLASS 50.

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EARTHWORK REQUIRED TO PREPARE THE UNCLASSIFIED SITE TO THE LINES AND GRADES AS SHOWN ON PLANS. THIS INCLUDES, BUT IS NOT LIMITED TO, ANY QUANTITY OF IMPORT OR EXPORT OF STRUCTURAL FILL AND/OR DISPOSAL OF UNSUITABLE MATERIAL, AS REQUIRED. ALL COSTS SHALL BE INCLUDED IN OVERALL BASE BID. ALL EXCAVATION SHALL BE CONSIDERED UNCLASSIFIED.

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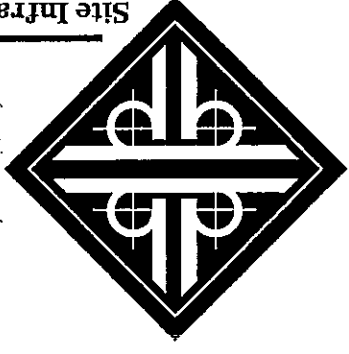
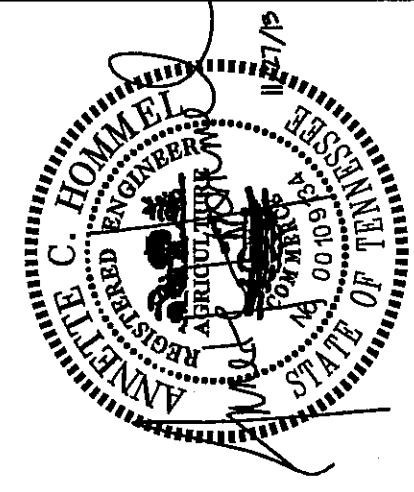
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Use On Review - Site Grading and Drainage Plan

Kingston Corner - Lot #2 Retail Shops
N Cedar Bluff Road and Kingston Pike
Knoxville, Tennessee
Developer: Horne Properties, Inc.



 **SITE**
INCORPORATED
Site Infrastructure Transportation Engineers
10215 Technology Drive, Suite 304
Knoxville, TN 37932
Fax: (865) 777-4189
Phone: (865) 777-4160

