

Existing Zoning: GC
 Front Building Setbacks = 40' per siteplan
 Side Yard Setback = 40' per siteplan
 Rear Yard Setback = 40' per siteplan

Existing Parking
 Regular = 0
 Handicap = 0
 Total = 0

Schedule B Exceptions per First American Title Insurance Co. File No. 18-0239

Survey Applicable Items follow:

Item 3: No additional easement or encumbrances found during survey.

Item 4:

Item 9:

Item 10:

Survey Datum:

- The horizontal datum is based on the Tennessee State Plane Coordinate System (NAD1983)
- The vertical datum is based on the NAVD88 vertical datum

Symbol Legend

○	Property Corner	—	Wood Fence line
⊗	Benchmark	—	Chain-linked Fence line
○	Parking Spaces	—	Barbed-Wire Fence line
⊕	curb drain inlet	—	Under Ground Electric
⊙	Sewer Man Hole	—	Over-Head Electric
⊕	Drainage Man Hole	—	Drain line
⊕	Gas Meter	—	Major Contours
⊕	Electric Meter	—	Minor Contours
⊕	Water Meter	—	Guy Anchor
⊕	Power Pole	—	RailRoad Easement
⊕	Light Pole	—	FEMA Flood Zone Area
⊕	P/V valve		
⊕	water valve	■	Building
⊕	fire hydrant	■	Concrete
PMT	Pad-Mount Trans.	■	Asphalt
A/C	Air Conditioner	■	Grass
CO	Clean Out	■	Easements

Survey Notes:

- All bearings are referenced to the Tennessee State Plane Coordinate System (NAD83)
- All new property corners shall be 1/2" rebar with orange plastic caps reading "SEAS TN 2195".
- Standard deed and title research was performed by Arc and current Title Commitment was provided to this firm by the client.
- The property shown hereon does NOT graphically fall within a special designated Floodzone per FEMA FIRM Map Panel 47157C0185F, Dated 09/27/2007.
- All existing "found irons" are described hereon and were found in accordance with the current deed of record.

Existing Site Data

This property is currently utilized as office/retail. Zoned:

One location with direct public access to _____ as shown here on.

All existing utilities shown were located from surface evidence only. Call 1-800-351-1111 (811) before digging.

There was no evidence of any current earth moving, building construction, or building additions on the property at the time of the survey.

There was no evidence of street or sidewalk construction and no proposed changes to the right of way lines were found at the time of the survey.

The property showed no signs or evidence of being used for a landfill, solid waste dump or cemetery.

There was remnants of delineated wetlands on the property at the time of the survey, but not enough to graphically show.

Title Commitment Description

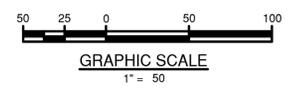
Property Description "As Surveyed"

2016 ALTA/NSPS CERTIFICATION

To Mondo Properties; First American Title Insurance Company; and to their successors and assigns:

This is to certify that this map or plat and the survey on which it is based were made in accordance with the 2016 Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys, jointly established and adopted by ALTA and NSPS, and includes Items 1, 2, 3, 4, 6a, 6b, 7a, 8, 9, 10a, 10b, 11b, 12, 13, 16, 17, 18, 19, and 20a of Table A thereof. The field work was completed on 04/04/2020.

04/04/2020
 Jeremy E. Loudenbeck
 TN. RLS 2195



SEAS 5567 Commander Dr. Suite 101
 Arlington, Tennessee 38002
 Office: (901) 881-9757
 Fax: (850) 398-6812

Seaside Engineering And Surveying, LLC

ALTA/NSPS Land Title Survey

1616 East Jefferson Street

Brownsville, Haywood County, Tennessee

Tax Parcel #: Map 0740 Group B Parcel 012.00
 Instrument #: RB 232 PG 778

NO.	DATE	DESCRIPTION	BY
DRAWN BY:	JL	DATE: 09/04/2024	
CHECKED BY:	JEL	DRAWING NO.: SEAS-MEM	
JOB NO.:	24-536	SHEET 1 of 1	

Surveyed for:
Overland Property Group

COPYRIGHT - No unauthorized copies of this plat are permitted. Original seal is affixed in blue ink.

Surveyor Email:
 Jeremy.Loudenbeck@seasllc.net



VICINITY
MAP
NOT TO SCALE

FINAL SITE DATA	
TOTAL SITE AREA (LOT 1):	222,854 S.F. (5.12 AC.)
TAX MAP, PARCEL NUMBER	MAP 0740, PARCEL 012.00
NUMBER OF UNITS	72 APT. UNITS
MAXIMUM BLDG. HEIGHT:	75 FT
PRO. MAX BLDG. HEIGHT:	45.33FT (4 STORY APARTMENT)
BUILDING SETBACKS:	
FRONT	40 FT.
SIDE	30 FT.
REAR	30 FT.
OPEN SPACE REQUIREMENT:	40% MULTI FAMILY APARTMENTS
PRO. OPEN SPACE:	40% MULTI FAMILY APARTMENTS
ZONING:	R-3 HIGH DENSITY RESIDENTIAL
LAND USE:	MULTI FAMILY APARTMENTS

PARKING SUMMARY

ACCESSIBLE PARKING STALLS	10 (2 van)
STANDARD PARKING STALLS	99
TOTAL PARKING STALLS	109
PARKING RATIO (STALLS/UNITS)	1.5

PARKING MEETS BROWNSVILLE'S LOCAL ZONING REQ:
CHAPTER 8: OFF-STREET PARKING & LOADING REGULATIONS.

TABLE 801.1 OFF-STREET PARKING SCHEDULE:
DWELLING UNITS:
2 STALLS PER DWELLING UNIT
2 X 72 UNITS = 144 STALLS REQUIRED

SECTION D, ITEM 7:
INCENTIVES: THE NUMBER OF PARKING STALL REQUIREMENTS
WILL BE FURTHER REDUCED BY 25% IF LANDSCAPED ISLANDS
EVERY FIFTEEN (15) PARKING STALLS ARE PROVIDED.
THUS, 144 X 75% = 108 STALLS REQUIRED



PLANNING COMMISSION CERTIFICATION

I, _____ DO HEREBY CERTIFY THAT THE CITY OF BROWNSVILLE PLANNING COMMISSION HAS APPROVED THIS PLAN OF DEVELOPMENT.

DATE _____ SECRETARY, CITY OF BROWNSVILLE PLANNING COMMISSION

CERTIFICATE OF ACCURACY OF ENGINEERING AND DESIGN

I, **J. WESLEY WOOLDRIDGE**, A PROFESSIONAL CIVIL ENGINEER, DO HEREBY CERTIFY THAT THE PLANS, ENGINEERING AND DESIGNS GOVERNING THE CONSTRUCTION OF THIS SITE DEVELOPMENT ARE TRUE AND CORRECT, AND CONFORM TO THE REQUIREMENTS SET FORTH IN THE SUBDIVISION REGULATIONS AND TECHNICAL SPECIFICATIONS OF THE CITY OF BROWNSVILLE.

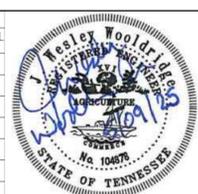
DATE _____ PROFESSIONAL CIVIL ENGINEER
STATE OF TENNESSEE CERTIFICATE NO. 104878



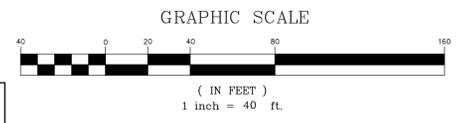
SITE BENCHMARK
RIM OF EXISTING S.M.H. LOCATED IN THE CENTER OF EAST JEFFERSON STREET
ELEVATION: 381.76

FEMA FLOOD NOTE:
The property shown hereon does NOT graphically fall within a special designated Floodzone per FEMA FIRM Map Panel 47157C0185F, Dated 09/27/2007.

ITEM NO.	REVISION DESCRIPTION OF CHANGE	APPROVAL DATE



THE RESERVES AT COBALT CIRCLE
BROWNSVILLE, TN.
DEVELOPER:
ENGINEER: RENAISSANCE GROUP, INC.

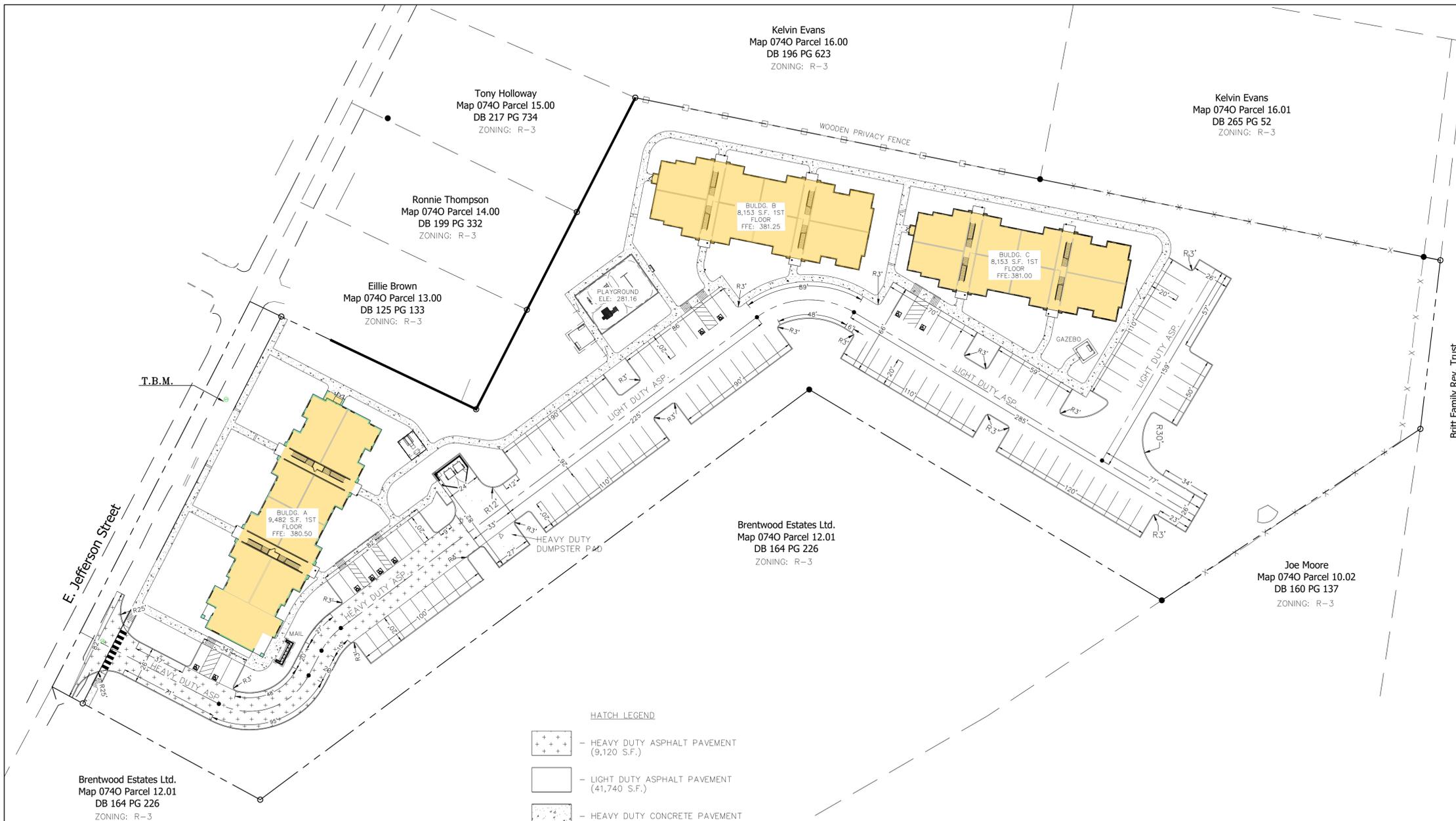


SHEET 1 OF 3

DIVISION OF ENGINEERING
SITE PLAN
LOCATION: 1616 EAST JEFFERSON STREET
BROWNSVILLE, TN.

SURVEY: SEAS
DESIGN: _____ DATE: 01/25/24
DATE: 10/24
BOOK: _____
SCALE: 1" = 40'

DEPUTY CITY ENGINEER _____ DATE _____ CITY ENGINEER _____ DATE _____



VICINITY
MAP
NOT TO SCALE

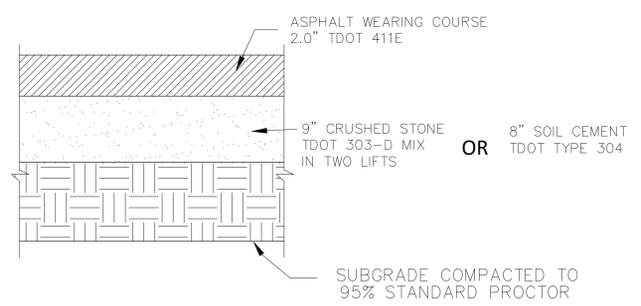
FINAL SITE DATA	
TOTAL SITE AREA (LOT 1):	222,854 S.F. (5.12 AC.)
TAX MAP, PARCEL NUMBER	MAP 0740, PARCEL 012.00
NUMBER OF UNITS	72 APT. UNITS
MAXIMUM BLDG. HEIGHT:	75 FT
PRO. MAX BLDG. HEIGHT:	45.33FT (4 STORY APARTMENT)
BUILDING SETBACKS:	
FRONT	40 FT.
SIDE	30 FT.
REAR	30 FT.
OPEN SPACE REQUIREMNT:	40%
PRO. OPEN SPACE:	MULTI FAMILY APARTMENTS
ZONING:	R-3 HIGH DENSITY RESIDENTIAL
LAND USE:	MULTI FAMILY APARTMENTS

HATCH LEGEND

	- HEAVY DUTY ASPHALT PAVEMENT (9,120 S.F.)
	- LIGHT DUTY ASPHALT PAVEMENT (41,740 S.F.)
	- HEAVY DUTY CONCRETE PAVEMENT (2,320 S.F.)

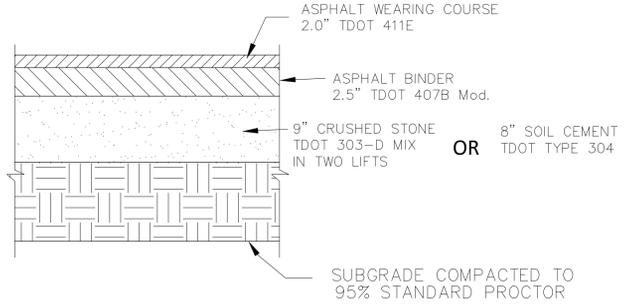
SITE BENCHMARK
RIM OF EXISTING S.M.H. LOCATED IN THE CENTER OF EAST JEFFERSON STREET
ELEVATION: 381.76

FEMA FLOOD NOTE:
The property shown hereon does NOT graphically fall within a special designated Floodzone per FEMA FIRM Map Panel 47157C0185F, Dated 09/27/2007.



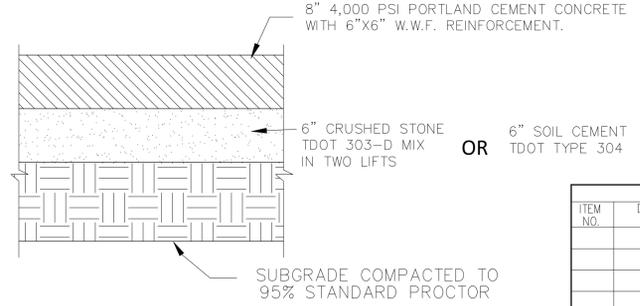
LIGHT DUTY

TYPICAL PAVEMENT DETAIL
N.T.S.



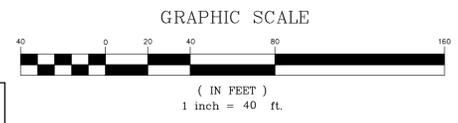
HEAVY DUTY

TYPICAL PAVEMENT DETAIL
N.T.S.

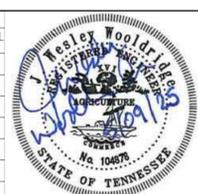


HEAVY DUTY CONCRETE

TYPICAL DUMPSTER PAD DETAIL
N.T.S.



REVISION		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE



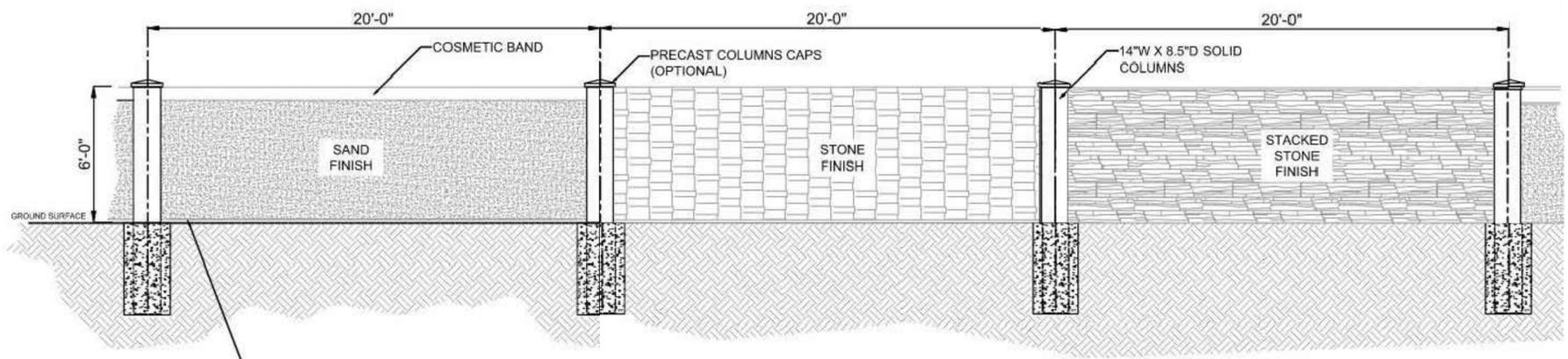
THE RESERVES AT COBALT CIRCLE
BROWNSVILLE, TN.

DEVELOPER:
ENGINEER: RENAISSANCE GROUP, INC.

DIVISION OF ENGINEERING
SITE PAVING PLAN
LOCATION: 1616 EAST JEFFERSON STREET
BROWNSVILLE, TN.

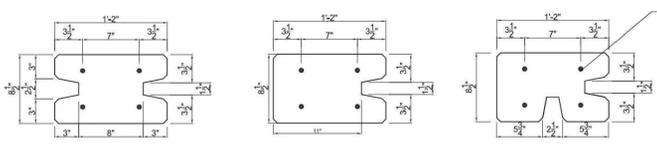
SURVEY: SEAS
DESIGN: _____ DATE: 01/25/24
BOOK: _____
DATE: 10/24
SCALE: 1" = 40'

DEPUTY CITY ENGINEER _____ DATE _____ CITY ENGINEER _____ DATE _____



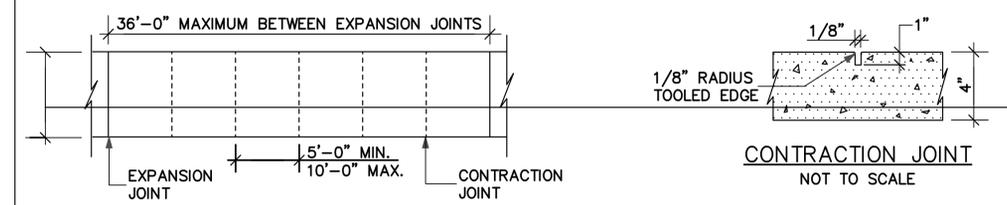
TYPICAL 6 FT. - GENERAL DIMENSIONS

SCALE(S):



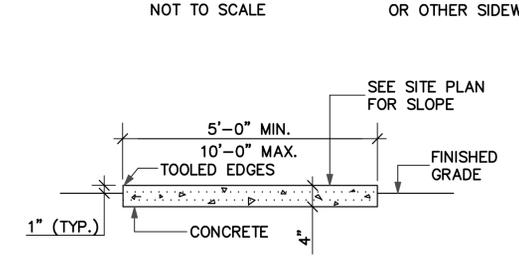
8-1/2" X 14" SOLID POST DETAILS

Vertical Reinforcement located in each corner of columns. Typical in all Solid Precast Fence Posts

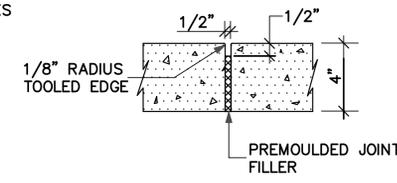


SIDEWALK PLAN NOT TO SCALE

NOTE: ALSO PROVIDE EXPANSION JOINTS WHERE SIDEWALK ABUTS STRUCTURES OR OTHER SIDEWALKS

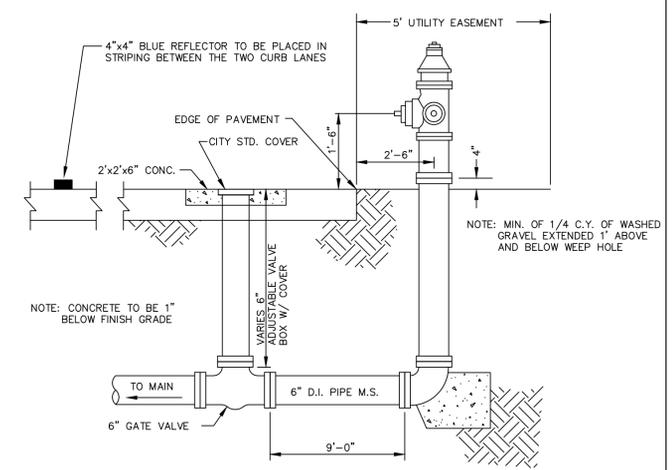
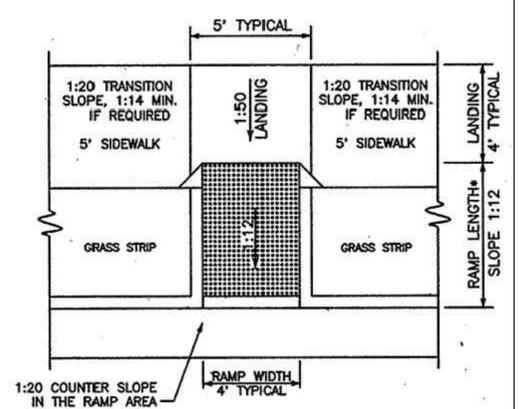


TYPICAL SIDEWALK SECTION NOT TO SCALE

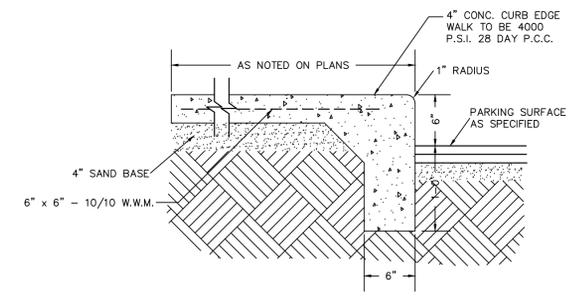


EXPANSION JOINT NOT TO SCALE

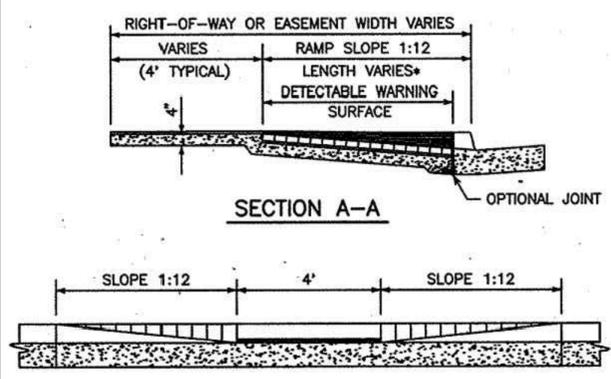
SIDEWALK DETAIL N.T.S.



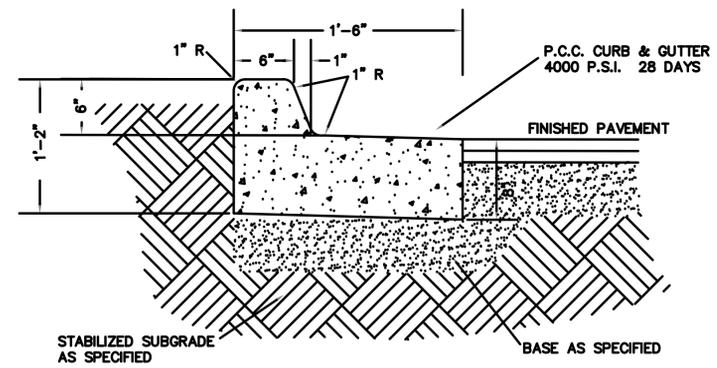
TYPICAL FIRE HYDRANT INSTALLATION N.T.S.



CURBED SIDEWALK N.T.S.



SECTION B-B



6-18 CURB & GUTTER DETAIL N.T.S.

REVISION		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE



THE RESERVES AT COBALT CIRCLE
BROWNSVILLE, TN.
DEVELOPER:
ENGINEER: RENAISSANCE GROUP, INC.

SHEET 3 OF 3
DIVISION OF ENGINEERING
SITE DETAILS
LOCATION: 1616 EAST JEFFERSON STREET
BROWNSVILLE, TN.
DATE: 10/24
DESIGN: JWW DATE: 01/25 CKD: JWW DATE: 01/25 SCALE:
DEPUTY CITY ENGINEER DATE CITY ENGINEER DATE

LEGEND	
PROPOSED MINOR CONTOUR	
EXISTING MINOR CONTOUR	
PROPOSED MAJOR CONTOUR	
EXISTING MAJOR CONTOUR	
EX. EDGE OF PAVEMENT	
PROPERTY LINE	
RIDGE LINE	
FLOW LINE	
TP	TOP OF PAVEMENT
TC	TOP OF CURB/CONC.
TC/TP	TOP OF CONCRETE/ TOP OF PAVEMENT
B/SW	BACK OF SIDEWALK
FL	FLOW LINE
D.A.	DRAINAGE AREA
Q10	DISCHARGE OF 10 YR. DESIGN STORM
HP	HIGH POINT
FG	FINISH GRADE
FFE	FINISHED FLOOR ELEV.

▶ -GROUND DRAINAGE DIRECTION

THE RESERVES AT COBALT CIRCLE										ASBUILT	
NO	TYPE	DA (AC)	Q25 (CFS)	TG/RIM ELEV	FL IN	FL IN	FL IN	FL OUT	INV. ELEV	RIM ELEV	
1	TYPE 10 HEADWALL	N/A	N/A	N/A	373.00				373.00		
2	NO 11 INLET	0.16	1.25	377.18	373.85			373.10	373.10		
2A	NO 11 INLET	0.10	0.57	379.70	374.20				374.20		
2B	NO 11 INLET	0.08	0.51	379.60	374.92				374.92		
3	NO 11 INLET	0.10	0.78	377.50	373.64				373.64		
4	NO 11 INLET	0.33	2.51	377.80	373.98				373.98		
5	6" DIA D.M.H	N/A	N/A	381.15	375.40			374.65	374.65		
5A	NO 11 INLET	0.08	0.51	380.60	375.71				375.71		
5B	NO 11 INLET	0.08	0.51	380.50	375.98				375.98		
5C	NO 11 INLET	0.37	1.63	381.60	376.25				376.25		
6	NO 11 INLET	0.16	1.25	379.30	375.39				375.39		
7	NO 11 INLET	0.33	2.53	378.40	376.02				376.02		
8	3"X3" INLET	0.66	4.18	379.50	373.25				373.25		
9	TYPE 10 HEADWALL	N/A	N/A	375.75	373.25				373.25		
10	NO 10 INLET	0.06	0.38	379.45	375.55				373.70		
11	NO 10 INLET	0.18	0.86	379.72	377.25			374.50	374.00		
11A	NO 10 INLET	0.06	0.42	379.73	377.40				377.40		
12	NO 10 INLET	0.61	2.44	379.73	378.05			377.55	375.29		
12A	NO 10 INLET	0.05	0.34	379.70	378.20				378.20		
13	NO 10 INLET	0.83	3.32	380.50	375.72			376.22	375.72		
13A	NO 10 INLET	0.06	0.38	380.00	376.40				376.40		
13B	NO 10 INLET	0.06	0.38	380.00	376.91				376.91		
14	NO 10 INLET	0.99	3.96	380.73	379.05			377.00	376.75		
14A	NO 10 INLET	0.05	0.42	380.73	379.15				379.15		
15	NO 10 INLET	0.74	2.96	380.90	377.81				377.81		
16	NO 10 INLET	0.04	0.28	380.73	379.25				379.00		
17	TYPE 10 HEADWALL	N/A	N/A	N/A	372.20				372.20		
18	O.C.S.	6.42	19.13	N/A	372.50				372.50		
19	*DOT D-PE-24A	N/A	N/A	N/A	375.00				375.00		
20	*DOT D-PE-24A	N/A	N/A	N/A	376.80				376.80		



- GENERAL NOTES (CITY OF BROWNSVILLE)**
- A MINIMUM OF 24-HOURS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE CITY OF BROWNSVILLE PUBLIC WORKS OFFICE AT (731) 772-9978.
 - ALL NEWLY CUT OR FILLED AREAS, LACKING ADEQUATE VEGETATION, SHALL BE SEEDED, MULCHED, FERTILIZED AND/OR SOODED AS REQUIRED TO EFFECTIVELY CONTROL SOIL EROSION.
 - THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE AND NOT NECESSARILY ALL OF THE SAME. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE UTILITY COMPANIES WHICH MAINTAIN A UTILITY LINE WITHIN THE BOUNDARIES OF THE PROJECT PRIOR TO THE INITIATION OF ANY CONSTRUCTION ON THE PROJECT OR IN THE STREETS BORDERING THE PROJECT. THE CONTRACTOR SHALL ALSO ASSUME FULL RESPONSIBILITY FOR DAMAGE TO ANY UTILITIES ENCOUNTERED WITHIN CONSTRUCTION PERIMETERS, WHETHER SHOWN ON THE CONSTRUCTION PLANS OR NOT, DURING THE WORK ON THE PROJECT. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTIES.
 - ALL FILL SOILS SHALL BE COMPACTED TO A MINIMUM OF 95% OF STANDARD PROCTOR DENSITY (ASTM D-698) WITHIN 3% OF OPTIMUM MOISTURE CONTENT IN LIFTS NOT TO EXCEED SIX (6) INCHES OF COMPACTED THICKNESS.
 - ALL CONSTRUCTION MATERIALS AND PROCEDURES SHALL MEET OR EXCEED THE REQUIREMENTS OF THE CITY OF BROWNSVILLE STANDARD CONSTRUCTION SPECIFICATIONS.
 - PROPERTY LINES SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION. GRADING, CLEARING AND THE ERECTION OR REMOVAL OF FENCES ALONG PROPERTY LINES SHALL BE FULLY COORDINATED WITH ADJACENT PROPERTY OWNERS.
 - VERIFY SITE CONDITIONS PRIOR TO CONSTRUCTION. NOTIFY THE CITY OF BROWNSVILLE PUBLIC WORKS OF ANY VARIATIONS PRIOR TO COMMENCEMENT OF WORK.
 - ALL GRADING WORK SHALL BE PERFORMED IN SUCH A MANNER THAT ADJACENT PROPERTIES ARE NOT DAMAGED OR ADVERSELY AFFECTED.
 - LOT DRAINAGE: FINISH GRADE SHALL BE SLOPED AWAY FROM THE FOUNDATION FOR DRAINAGE. THE FINISH GRADE MUST BEGIN AT LEAST 12-INCHES BELOW THE TOP OF THE FOUNDATION WALL OR THE GRADE OF THE CONCRETE SLAB AT THE INTERIOR IN THE CASE OF AN INTEGRAL SLAB AND FOUNDATION. THE MINIMUM GRADE AWAY FROM THE FOUNDATION SHALL BE TWO PERCENT (2%) IN ALL DIRECTIONS. THE DRIVEWAY SHALL BE SLOPED DOWN AT TWO PERCENT (2%) FOR AT LEAST EIGHT FEET FROM THE STRUCTURE.

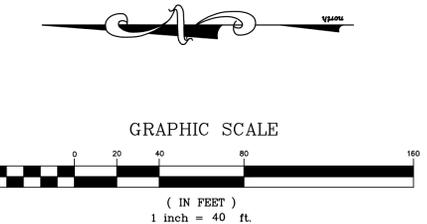


THE RESERVE AT COBALT CIRCLE													ASBUILT									
FROM	INV. ELEV	TO	INV. ELEV	PPE	MATERIAL	LEN (FT)	SLOPE (%)	D.A. (AC)	DESIGN Q25 (CFS)	CAPACITY Q10 (CFS)	VEL. (FPS)	VELOCITY FULL (FPS)	FROM	INV. ELEV	TO	INV. ELEV	PIPE DIA (IN)	LENGTH (FT.)	SLOPE (%)	CAPACITY Q (CFS)		
1	373.00	2	373.10	24	ADS HP STORM	20	0.50	2.73	14.98	17.33	6.21	5.52										
2	373.10	3	373.64	24	ADS HP STORM	109	0.50	2.4	13.90	17.25	6.11	5.48										
3	373.64	4	373.98	24	ADS HP STORM	68	0.50	2.3	13.12	17.33	6.08	5.52										
4	373.98	5	374.65	24	ADS HP STORM	132	0.51	1.97	10.61	17.46	5.82	5.56										
5	374.65	6	375.39	18	ADS HP STORM	97	0.51	1.44	7.96	8.09	5.21	4.58										
6	375.39	7	376.02	18	ADS HP STORM	126	0.50	1.28	6.71	8.05	5.10	4.55										
7	376.02	8	376.75	15	ADS HP STORM	89	0.51	0.95	4.18	4.98	4.54	4.05										
2	373.85	2A	374.20	15	ADS N-12	71	0.50	0.17	1.08	4.93	2.85	4.02										
2A	374.20	2B	374.92	15	ADS N-12	72	1.00	0.06	0.51	7.00	3.29	5.70										
5	375.40	5A	375.71	15	ADS N-12	63	0.50	0.53	2.65	4.93	4.08	4.02										
5A	375.71	5B	375.98	15	ADS N-12	54	0.50	0.45	2.14	4.95	3.87	4.03										
5B	375.98	5C	376.26	15	ADS N-12	55	0.51	0.37	1.63	4.99	3.62	4.07										
9	373.25	10	373.70	24	ADS N-12	89	0.51	3.73	16.14	17.43	6.30	5.55										
10	373.70	11	374.05	24	ADS N-12	89	0.51	3.67	15.78	17.45	6.29	5.56										
11	374.55	12	375.29	24	ADS N-12	61	1.21	3.43	14.48	26.99	8.73	8.59										
12	375.29	13	376.72	18	ADS N-12	42	1.02	2.77	11.70	11.51	7.43	6.52										
13	375.72	14	376.75	18	ADS N-12	103	1.00	1.82	7.62	11.38	6.90	6.44										
14	377.00	15	377.56	15	ADS N-12	56	1.00	0.77	3.24	7.00	5.59	5.70										
15	377.81	16	378.00	12	ADS N-12	15	1.27	0.04	0.28	4.34	3.04	5.53										
11	377.25	11A	377.40	12	ADS N-12	23	0.65	0.06	0.42	3.12	2.74	3.97										
12	378.05	12A	378.20	12	ADS N-12	26	0.58	0.05	0.34	2.93	2.46	3.73										
13	378.22	13A	378.40	12	ADS N-12	21	0.86	0.12	0.78	3.57	3.23	4.55										
13A	378.40	13B	378.91	12	ADS N-12	56	0.91	0.06	0.38	3.68	2.71	4.69										
14	379.05	14A	379.15	6	ADS N-12	13	0.77	0.06	0.42	0.53	1.57	2.72										
*19	375.00	*20	376.80	24	RCP	76	2.37	2.05	19.13	37.72	13.27	12.01										

* denotes 18"X28" Arch end pipe

PROPERTY	DESCRIPTION
Mat Width & Length	Manufactured in standard widths of 4', 5.5', 8', 10', 12', 15.5' & 16'. Lengths can be cut to order per project requirements. Stocked lengths are 30', 40', & 50'. 4' x 4' mats stacked on pallets are also available.
Underlayment Options	Flexamat® Standard - a three-layered system, includes, in order from top to bottom, 1) Concrete block mat 2) St-Pick Leno Weave and 3) Curlex® II. Flexamat® Plus - A four-layered system includes, in order from top to bottom, 1) Concrete block mat 2) St-Pick Leno Weave 3) Flexycel® TRM V and 4) Curlex® II. Flexamat® 10NW - A two-layered system, includes, 1) Concrete block mat 2) 10oz. non-woven geotextile cast onto the back of the blocks, adhered to the concrete block.
Weight per Square Foot	10 lbs per square foot
Block Size	The concrete blocks are 6.5" x 6.5" x 2.25". There is 1.5" spacing between the blocks.
Limiting Shear	24+ PSF (non vegetated)
Limiting Velocity	30+ ft/second (non vegetated)

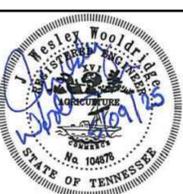
ACREAGE SUMMARY	
EX. IMPERVIOUS SURFACE	0.12 ACRES
EX. PEROVIOUS SURFACE	5.00 ACRES
IMPERVIOUS SURFACE AT COMPLETION	2.13 ACRES
PERVIOUS/SEEDED AREA AT COMPLETION	2.99 ACRES
TOTAL AREA	5.12 ACRES



SITE BENCHMARK
RIM OF EXISTING S.M.H. LOCATED IN THE CENTER OF EAST JEFFERSON STREET
ELEVATION: 381.76

FEMA FLOOD NOTE:
THE PROPERTY SHOWN HEREON DOES NOT GRAPHICALLY FALL WITHIN A SPECIAL DESIGNATED FLOODZONE PER FEMA FIRM MAP PANEL 47157C0185F, DATED 09/27/2007
ELEVATION: 381.76

ITEM NO	REVISION DESCRIPTION OF CHANGE	APPROVAL DATE
1	ASI #2	10/25



THE RESERVES AT COBALT CIRCLE
BROWNSVILLE, TN.
DEVELOPER:
ENGINEER: RENAISSANCE GROUP, INC.

DIVISION OF ENGINEERING
GRADING & DRAINAGE PLAN
LOCATION: 1616 EAST JEFFERSON STREET
BROWNSVILLE, TN.
SURVEY: SEAS DATE: 10/24 BOOK: _____
DESIGN: _____ DATE: 01/25/CKD DATE: 01/25 SCALE: 1" = 40'
DEPUTY CITY ENGINEER DATE CITY ENGINEER DATE

**DETENTION POND DATA =
2, 10, 25, and 100 YEAR DESIGN**

Pre-Developed
Area = 5.12 ac.
CN = 77
Tp = 12.13 hrs.
Q1 = 6.62 cfs
Q2 = 8.908 cfs
Q5 = 13.04 cfs
Q10 = 16.05 cfs
Q25 = 19.76 cfs
Q100 = 26.20 cfs

Post-Developed ONSITE Detained in Basin
Area = 2.76 Total ac.
WT. CN = 92
Tp = 11.93 hrs.
Tc = 5 min.
Q1 = 11.29 cfs
Q2 = 13.62 cfs
Q5 = 17.56 cfs
Q10 = 20.30 cfs
Q25 = 23.61 cfs
Q100 = 29.22 cfs

Post-Developed OFFSITE Detained in Basin (Allowable By-pass)
Area = 3.86 Total ac.
WT. CN = 77
Tp = 12.13 hrs.
Tc = 23.9 min.
Q1 = 4.99
Q2 = 6.72 cfs
Q5 = 9.83 cfs
Q10 = 12.10 cfs
Q25 = 14.90 cfs
Q100 = 19.75 cfs

Basin Elev./Storage/Discharge

Elevation (ft)	Storage (cu.ft)	Discharge (cfs)
372.50	0	0.00
373.00	969	2.254
374.00	7,410	6.914
375.00	15,143	12.30
376.00	24,229	28.74
376.33	27,597	30.83

Routed Outflow
Two 12" orifice @ 372.50
pipe coefficient = 0.013
16ft RISER at 375.25'
Weir coefficient = 3.33
TIME TO PEAK 12.20 hrs
1 year WSEL = 374.05'
2 year WSEL = 374.48'
5 year WSEL = 375.20'
10 year WSEL = 375.44'
25 year WSEL = 375.59'
100 year WSEL = 375.93'
Q1 = 6.07 cfs
Q2 = 6.89 cfs
Q5 = 9.03 cfs
Q10 = 13.66 cfs
Q25 = 19.13 cfs
Q100 = 27.93 cfs

TOTAL POST DEV. FLOW MINUS ALLOWABLE DISCHARGE
Area = 6.62ac.+2.36ac.=3.86ac.
by-pass = **5.12 TOTAL ac.**
Tp = 11.93 hrs
Q1 = 8.64 cfs
Q2 = 9.53 CFS
Q5 = 10.51 cfs
Q10 = 11.35 CFS
Q25 = 12.45 CFS
Q100= 25.24 CFS

NET CHANGE FROM PRE-DEV TO POST DEV. DETAINED plus UN-DETAINED
Post-Developed Detained, Un-detained Site Discharge:
Area = 2.76ac.+2.36ac. = **5.12 TOTAL ac.**
Q1 = 8.64cfs - 6.62cfs = **2.02 cfs INCREASE**
Q2 = 9.53cfs - 8.91cfs = **0.62 cfs INCREASE**
Q5 = 10.51cfs - 13.04cfs = **2.53 cfs DECREASE**
Q10 = 11.35cfs - 16.05cfs = **4.70 cfs DECREASE**
Q25 = 12.45cfs - 19.76cfs = **7.36cfs DECREASE**
Q100= 25.24cfs - 26.20cfs = **0.96cfs DECREASE**

TOTAL ON-SITE UN-DETAINED
Post-Developed Un-Detained
Area = 2.36 Total ac.
WT. CN = 98
Tp = 11.93 hrs.
Tc = 5 min.
Q1 = 8.54 cfs
Q2 = 10.55 cfs
Q5 = 13.95 cfs
Q10 = 16.33 cfs
Q25 = 19.21 cfs
Q100 = 24.08 cfs

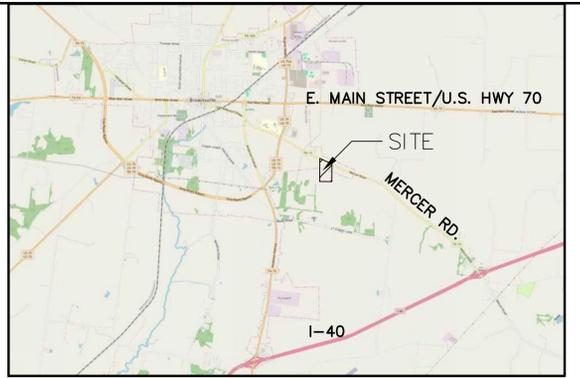
TOTAL POST DEV. FLOW Post-Developed Un-Detained
Area = 8.98 Total ac.
Q1 = 13.63 cfs
Q2 = 16.25 cfs
Q5 = 20.34 cfs
Q10 = 23.45 cfs
Q25 = 27.35 cfs
Q100 = 44.99 cfs

TOTAL OFF-SITE DETAINED
D.A.: 3.86AC
Q25= 14.90 cfs
CN = 77

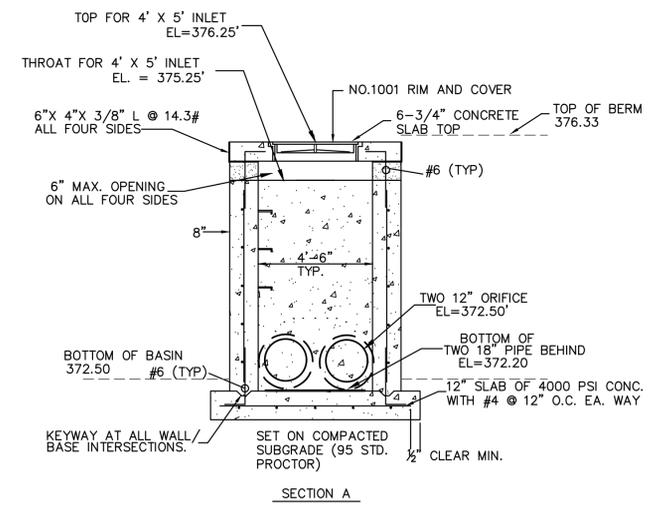
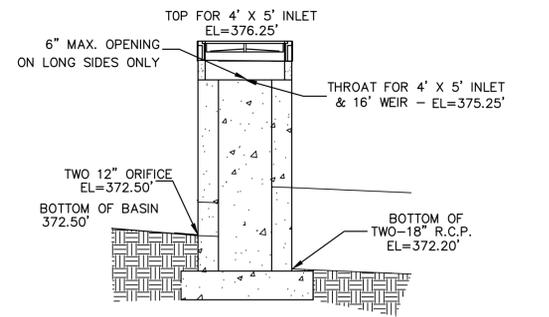
ON-SITE UN-DET.(W)
D.A. : 0.79AC
Q25 = 6.43cfs
CN = 88

GENERAL NOTES (CITY OF BROWNSVILLE)

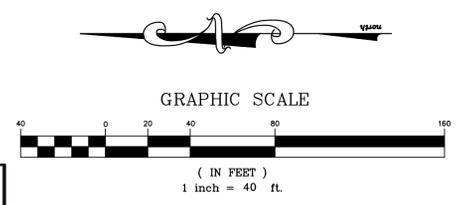
- A MINIMUM OF 24-HOURS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE CITY OF BROWNSVILLE PUBLIC WORKS OFFICE AT (731) 772-9978.
- ALL NEWLY CUT OR FILLED AREAS, LACKING ADEQUATE VEGETATION, SHALL BE SEED, MULCHED, FERTILIZED AND/OR SOODED AS REQUIRED TO EFFECTIVELY CONTROL SOIL EROSION.
- THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE AND NOT NECESSARILY ALL OF THE SAME. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE UTILITY COMPANIES WHICH MAINTAIN A UTILITY LINE WITHIN THE BOUNDARIES OF THE PROJECT PRIOR TO THE INITIATION OF ANY CONSTRUCTION ON THE PROJECT OR IN THE STREETS BORDERING THE PROJECT. THE CONTRACTOR SHALL ALSO ASSUME FULL RESPONSIBILITY FOR DAMAGE TO ANY UTILITIES ENCOUNTERED WITHIN CONSTRUCTION PERIMETERS, WHETHER SHOWN ON THE CONSTRUCTION PLANS OR NOT, DURING THE WORK ON THE PROJECT. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTIES.
- ALL FILL SOILS SHALL BE COMPACTED TO A MINIMUM OF 95% OF STANDARD PROCTOR DENSITY (ASTM D-698) WITHIN 3% OF OPTIMUM MOISTURE CONTENT IN LIFTS NOT TO EXCEED SIX (6) INCHES OF COMPACTED THICKNESS.
- ALL CONSTRUCTION MATERIALS AND PROCEDURES SHALL MEET OR EXCEED THE REQUIREMENTS OF THE CITY OF BROWNSVILLE STANDARD CONSTRUCTION SPECIFICATIONS.
- PROPERTY LINES SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION. GRADING, CLEARING AND THE ERECTION OR REMOVAL OF FENCES ALONG PROPERTY LINES SHALL BE FULLY COORDINATED WITH ADJACENT PROPERTY OWNERS.
- VERIFY SITE CONDITIONS PRIOR TO CONSTRUCTION. NOTIFY THE CITY OF BROWNSVILLE PUBLIC WORKS OF ANY VARIATIONS PRIOR TO COMMENCEMENT OF WORK.
- ALL GRADING WORK SHALL BE PERFORMED IN SUCH A MANNER THAT ADJACENT PROPERTIES ARE NOT DAMAGED OR ADVERSELY AFFECTED.
- LOT DRAINAGE: FINISH GRADE SHALL BE SLOPED AWAY FROM THE FOUNDATION FOR DRAINAGE. THE FINISH GRADE MUST BE AT LEAST 12-INCHES BELOW THE TOP OF THE FOUNDATION WALL OR THE GRADE OF THE CONCRETE SLAB AT THE INTERIOR IN THE CASE OF AN INTEGRAL SLAB AND FOUNDATION. THE MINIMUM GRADE AWAY FROM THE FOUNDATION SHALL BE TWO PERCENT (2%) IN ALL DIRECTIONS. THE DRIVEWAY SHALL BE SLOPED DOWN AT TWO PERCENT (2%) FOR AT LEAST EIGHT FEET FROM THE STRUCTURE.



HATCH LEGEND
 - OFF-SITE DETAINED
 - ON-SITE UNDETAINED



SECTION A
O.C.S. #18
MOD. 4'X4' PRECAST STRUCTURE
N.T.S.



SITE BENCHMARK
RIM OF EXISTING S.M.H. LOCATED IN THE CENTER OF EAST JEFFERSON STREET
ELEVATION: 381.76

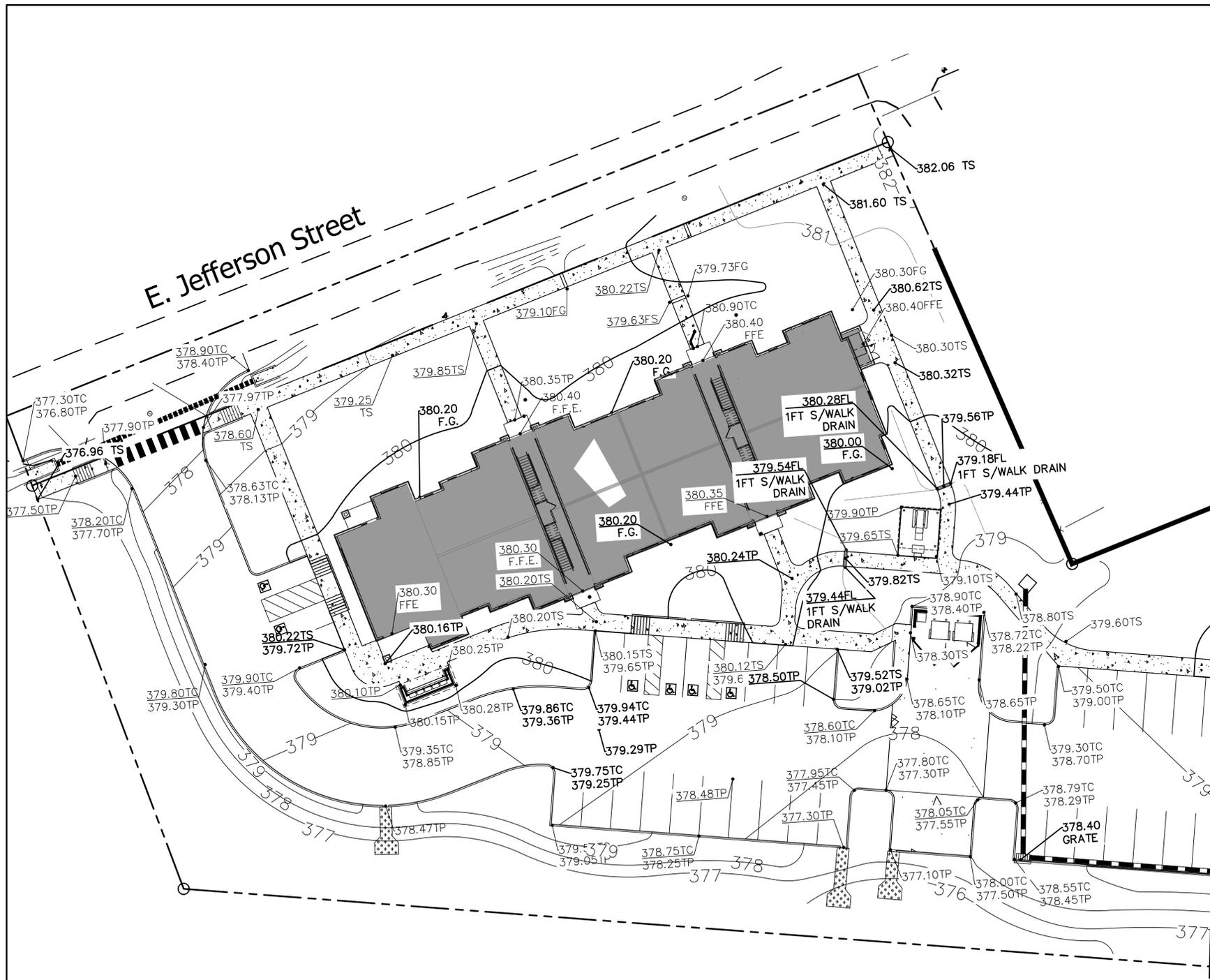
FLOOD NOTE:
THIS PROPERTY SHOWN HEREON DOES NOT GRAPHICALLY FALL WITHIN A SPECIAL DESIGNATED FLOODZONE PER FEMA FIRM MAP PANEL 47157C0185F, DATED 09/27/2007

ITEM NO.	REVISION DESCRIPTION OF CHANGE	APPROVAL DATE



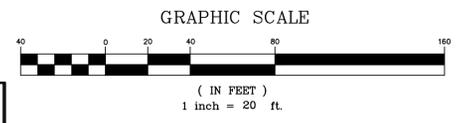
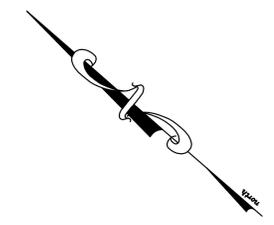
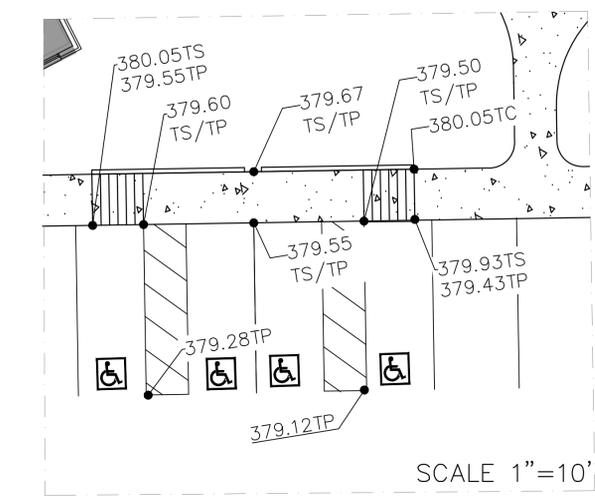
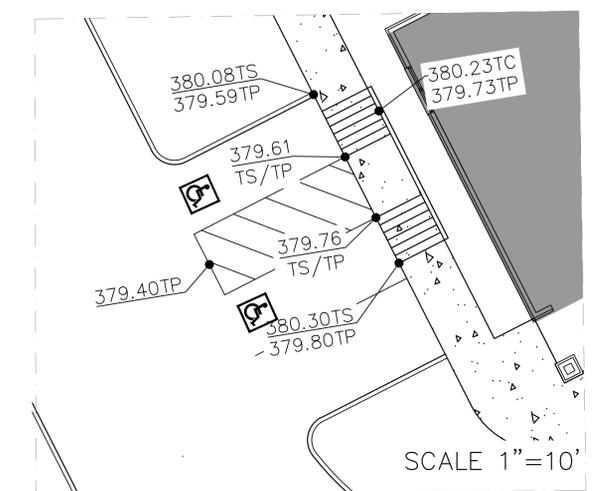
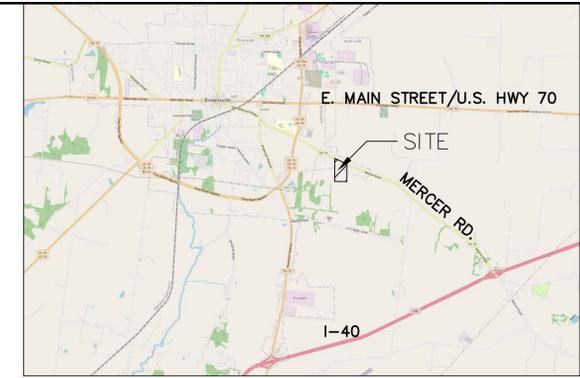
THE RESERVES AT COBALT CIRCLE
BROWNSVILLE, TN.
DEVELOPER:
ENGINEER: RENAISSANCE GROUP, INC.

DIVISION OF ENGINEERING
DETENTION PLAN
LOCATION: 1616 EAST JEFFERSON STREET
BROWNSVILLE, TN.
SURVEY: SEAS DATE: 10/24 BOOK: _____
DESIGN: _____ DATE: 01/25/CKD DATE: 01/25 SCALE: 1"=40'
DEPUTY CITY ENGINEER DATE CITY ENGINEER DATE



LEGEND	
PROPOSED MINOR CONTOUR	---
EXISTING MINOR CONTOUR	---
PROPOSED MAJOR CONTOUR	---
EXISTING MAJOR CONTOUR	---
EX. EDGE OF PAVEMENT	---
PROPERTY LINE	---
RIDGE LINE	---
TP	TOP OF PAVEMENT
TC	TOP OF CURB/CONC.
TC/TP	TOP OF CONCRETE/ TOP OF PAVEMENT
TS	TOP OF SIDEWALK
FL	FLOW LINE
D.A.	DRAINAGE AREA
Q10	DISCHARGE OF 10 YR. DESIGN STORM
HP	HIGH POINT
FG	FINISH GRADE
FFE	FINISHED FLOOR ELEV.

▲ -GROUND DRAINAGE DIRECTION

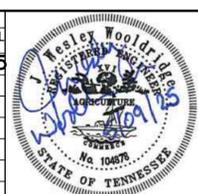


SITE BENCHMARK
MAG-NAIL AT SOUTHEAST CORNER OF CENTRAL AVE AND MEDA ST INTERSECTION. ELEVATION: 304.38

CITY BENCHMARK
CITY BM#102 - CITY MONUMENT IS LOCATED AT CENTRAL AVE & EAST PKWY S ON THE NORTHWEST CORNER AT BACK OF SIDEWALK AT NORTHEAST CORNER OF CONCRETE BASE OF TRAFFIC SIGNAL POLE. ELEV.: 292.36 (NAVD '88 DATUM)

FLOOD NOTE:
THIS PROPERTY IS NOT LOCATED IN A SPECIAL FLOOD HAZARD AREA PER FLOOD INSURANCE RATE MAP, MAP No. 47157C 0290 F. COMMUNITY PANEL No. 470177 0290 F, EFFECTIVE DATE: SEPTEMBER 28, 2007. NEAREST BFE: 233.0

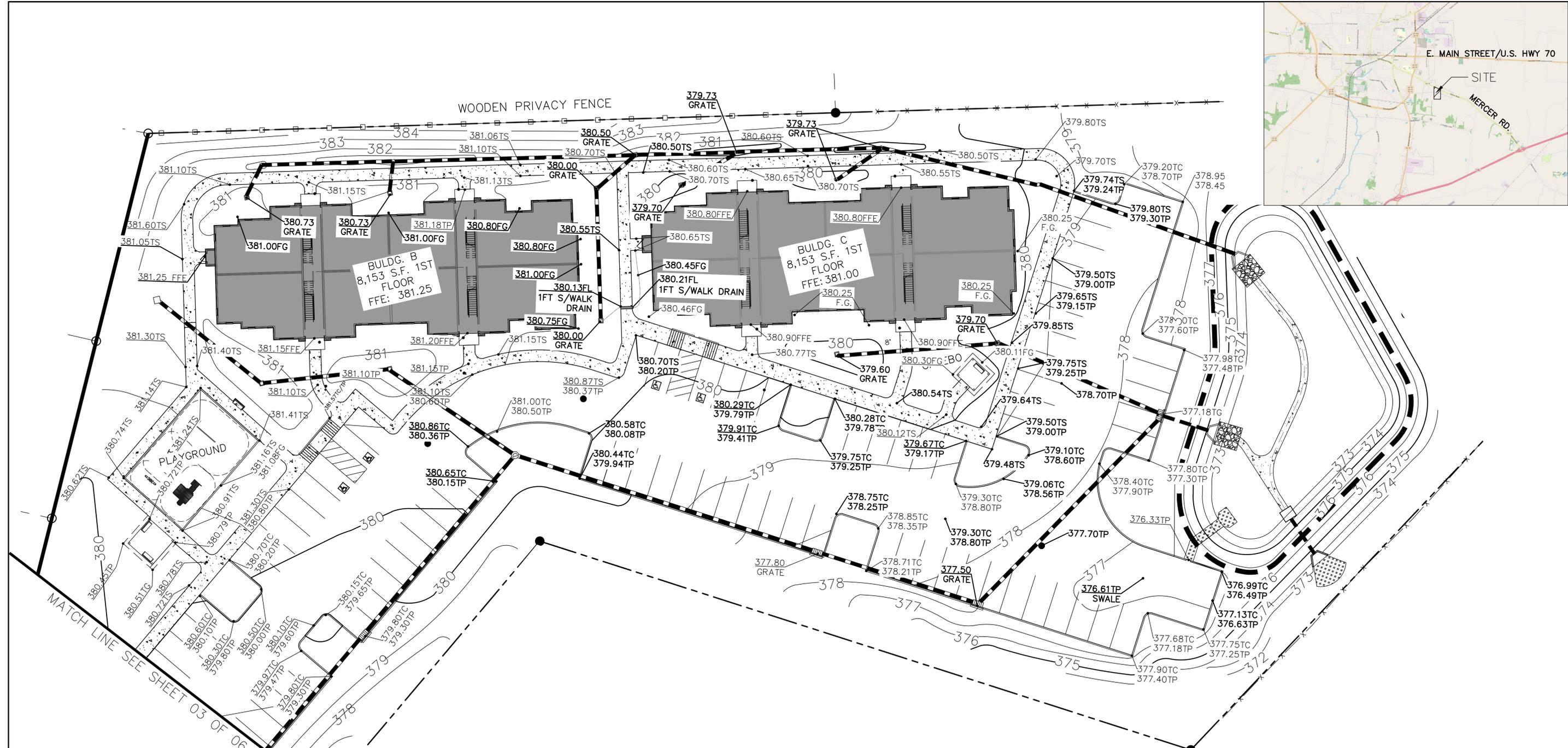
REVISION	DESCRIPTION OF CHANGE	APPROVAL DATE
1	ASI #2	10/25



THE RESERVES AT COBALT CIRCLE
BROWNSVILLE, TN.
DEVELOPER:
ENGINEER: RENAISSANCE GROUP, INC.

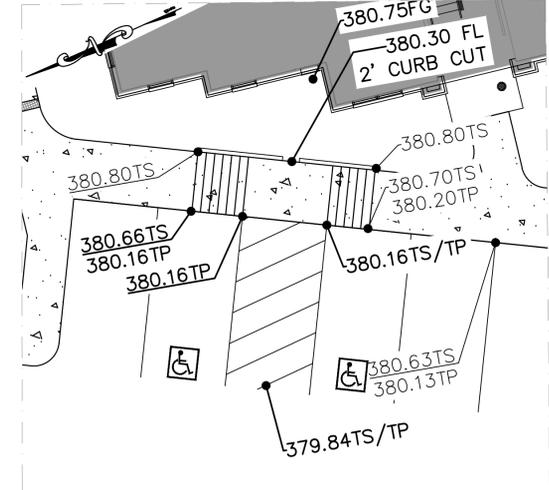
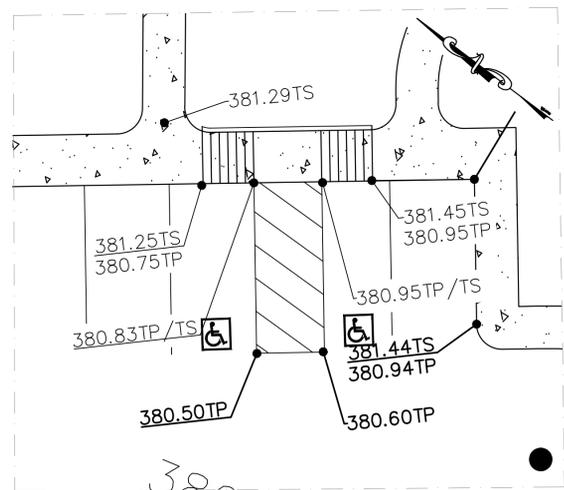
SHEET 03 OF 06

DIVISION OF ENGINEERING
SPOT GRADING PLAN 1 OF 2
LOCATION: 1616 EAST JEFFERSON STREET
BROWNSVILLE, TN.
SURVEY: SEAS DATE: 10/24 BOOK: _____
DESIGN: _____ DATE: 01/25 CKD: _____ DATE: 01/25 SCALE: 1" = 40'
DEPUTY CITY ENGINEER _____ DATE _____ CITY ENGINEER _____ DATE _____

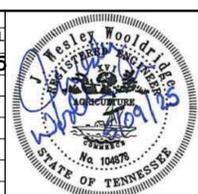


LEGEND	
PROPOSED MINOR CONTOUR	---
EXISTING MINOR CONTOUR	---
PROPOSED MAJOR CONTOUR	---
EXISTING MAJOR CONTOUR	---
EX. EDGE OF PAVEMENT	---
PROPERTY LINE	---
RIDGE LINE	---
TP	TOP OF PAVEMENT
TC	TOP OF CURB/CONC.
TC/TP	TOP OF CONCRETE/TOP OF PAVEMENT
TS	TOP OF SIDEWALK
FL	FLOW LINE
D.A.	DRAINAGE AREA
Q10	DISCHARGE OF 10 YR. DESIGN STORM
HP	HIGH POINT
FG	FINISH GRADE
FFE	FINISHED FLOOR ELEV.

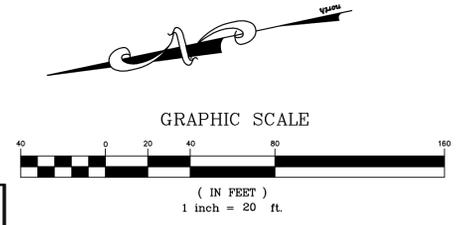
▶ -GROUND DRAINAGE DIRECTION



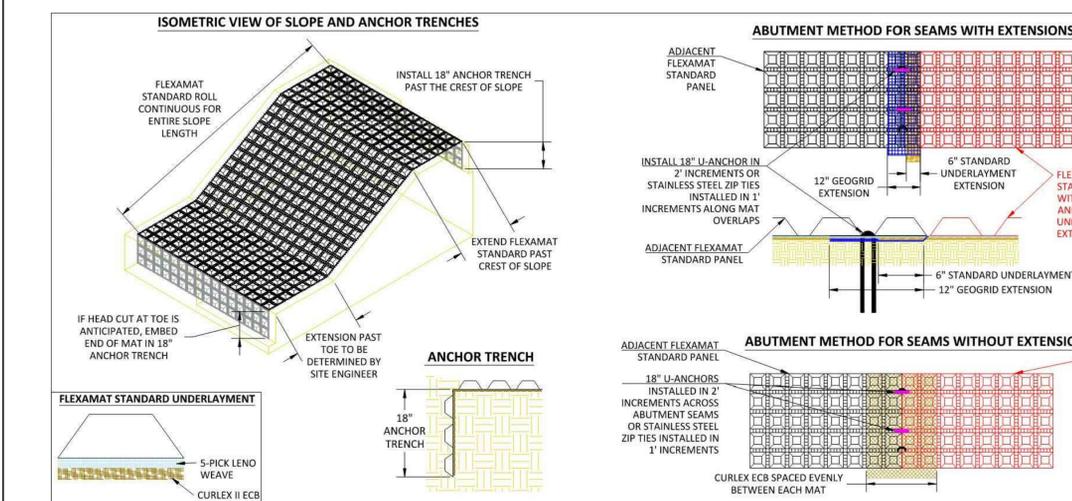
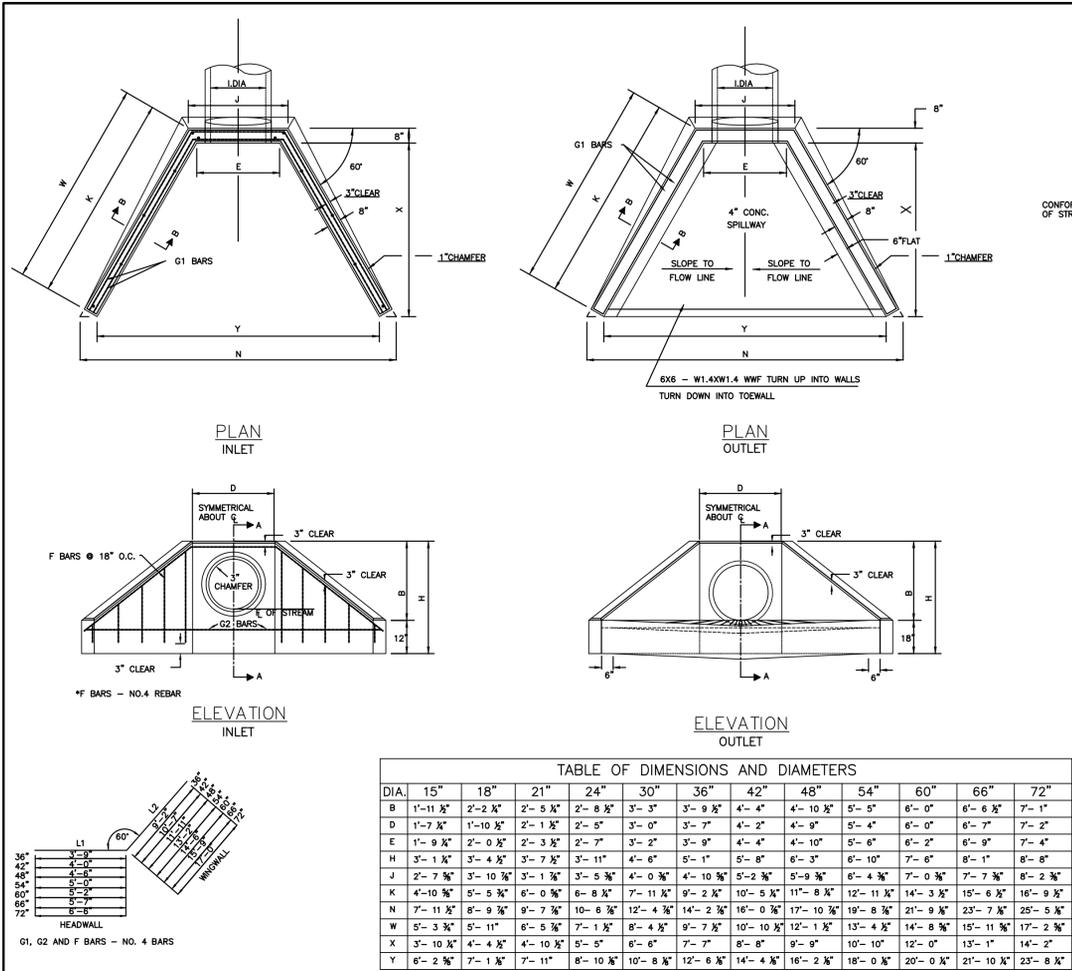
ITEM NO.	REVISION	DESCRIPTION OF CHANGE	APPROVAL DATE
1	ASI #2		10/25



THE RESERVES AT COBALT CIRCLE
BROWNSVILLE, TN.
DEVELOPER:
ENGINEER: RENAISSANCE GROUP, INC.



SHEET 04 OF 06
DIVISION OF ENGINEERING
SPOT GRADING PLAN 2 OF 2
LOCATION: 1616 EAST JEFFERSON STREET
BROWNSVILLE, TN.
DESIGN: JWW DATE: 01/25/CKD: JWW DATE: 01/25 SCALE: 1" = 40'
DEPUTY CITY ENGINEER DATE CITY ENGINEER DATE



FLEXAMAT STANDARD - SLOPE ARMORING

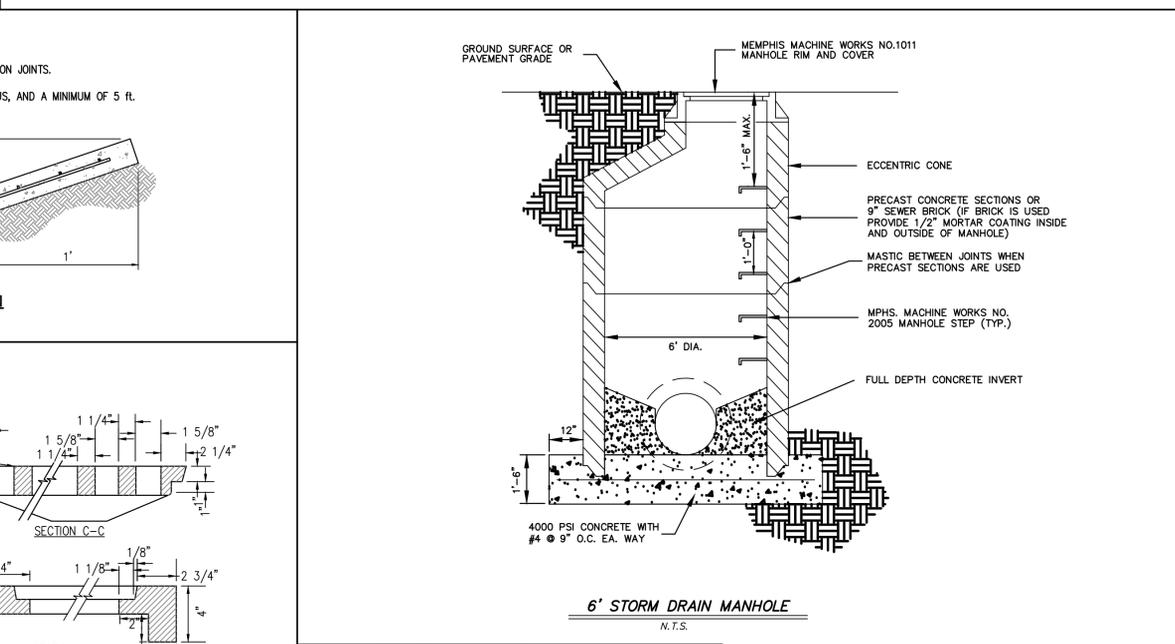
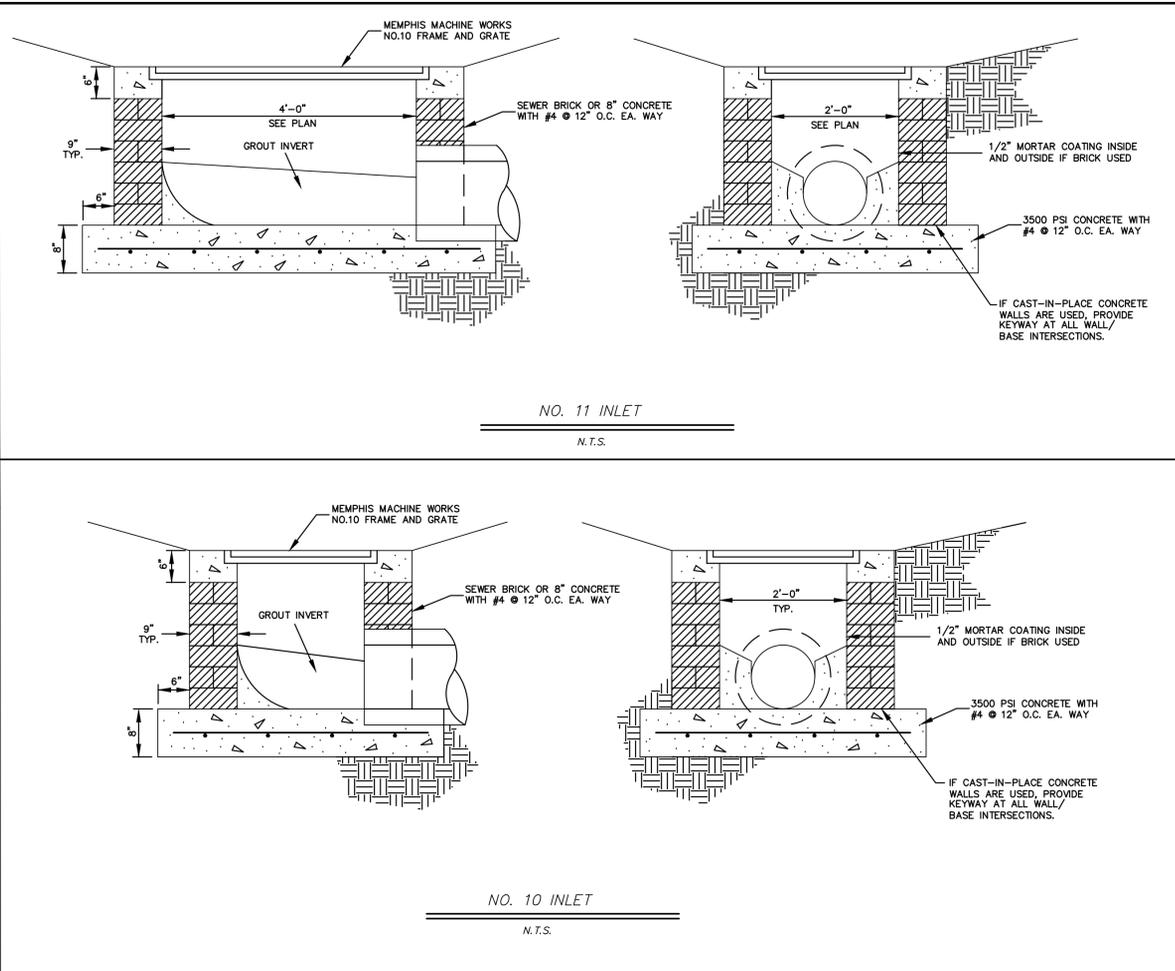
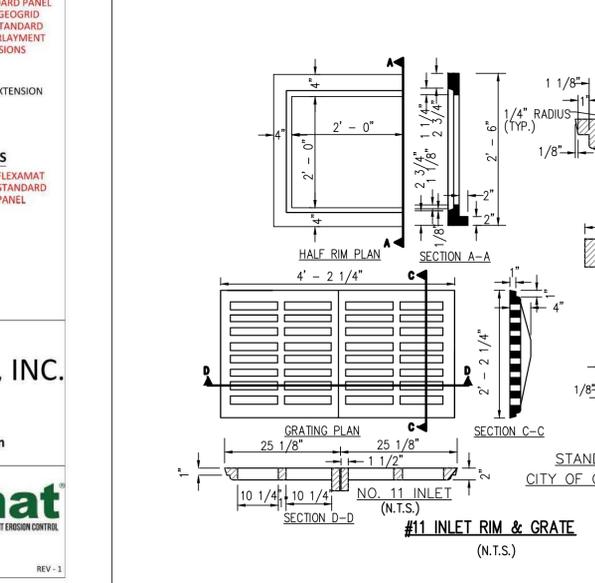
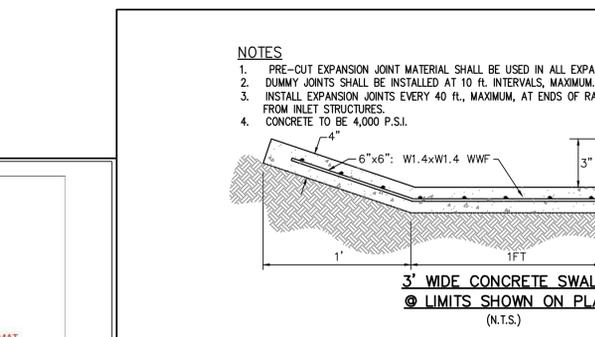
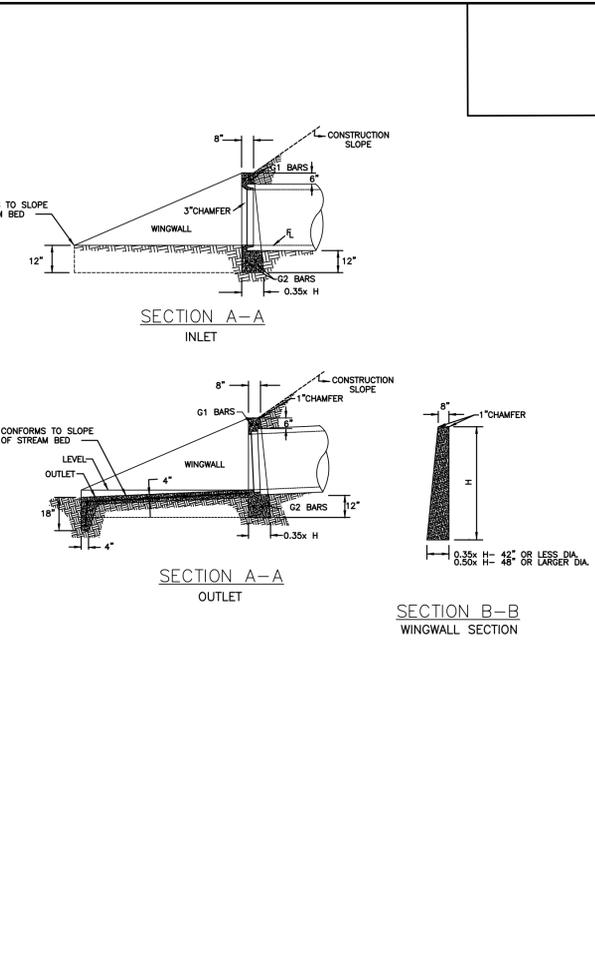
CONSTRUCTION NOTES:

- AN ENGINEER OR MANUFACTURERS REPRESENTATIVE SHALL BE ONSITE FOR THE START OF THE INSTALLATION.
- ALL SUBGRADE SURFACES PREPARED FOR PLACEMENT OF MATS SHALL BE SMOOTH AND FREE OF ALL ROCKS, STICKS, ROOTS, OTHER PROTRUSIONS, OR DEBRIS OF ANY KIND.
- PRIOR TO FLEXAMAT STANDARD INSTALLATION SEED AND FERTILIZE SUBGRADE WITH SITE SPECIFIC SEED MIX IN ACCORDANCE WITH THE PROJECT PLANS AND SPECIFICATIONS.
- INSTALL FLEXAMAT STANDARD ROLLS THAT ARE CONTINUOUS FOR ENTIRE SLOPE LENGTH. FOR SLOPES LONGER THAN 16', USE MATS WITH EXTENSIONS CUT TO THE LENGTH OF THE SLOPE. INSTALL MATS TO THAT THE MATTING EXTENDS PAST THE CREST OF SLOPE AND INTO AN 18" ANCHOR TRENCH.
- FOR ARMORED SLOPE LENGTHS 16' OR LESS, INSTALL CURLEX ECB EQUALLY UNDER ADJACENT MATS. SECURE SEAM WITH #3 REBAR 18" U-ANCHORS IN 2' INCREMENTS THE LENGTH OF THE ABUTMENT.
- ARMORED SLOPE LENGTHS LONGER THAN 16', INSTALL NEXT MAT OVER EXTENSIONS.
- INSTALL SUBSEQUENT MATS OVER THE GEOGRID EXTENSION AND STANDARD UNDERLAYMENT EXTENSION OF THE PREVIOUSLY INSTALLED MAT. ENSURE THE GEOGRID AND STANDARD UNDERLAYMENT EXTENSIONS ARE LAYING FLAT ON THE SUBGRADE BEFORE INSTALLING ADJACENT MAT OVER THE EXTENSIONS.
- INSTALL #3 REBAR 18" U-ANCHORS IN 2' INCREMENTS ACROSS THE GEOGRID AND STANDARD EXTENSION ABUTMENT. INSTALL ANCHORS PERPENDICULAR TO THE SLOPE DIRECTLY BEHIND FIRST ROW OF BLOCKS ON THE ADJACENT MAT.
- AT THE END OF THE ARMORED SLOPE, IF HEAD CUT IS ANTICIPATED, EMBE THE MAT 18" IN A TERMINATION TRENCH. FILL AND COMPACT TERMINATION TRENCH WITH SUITABLE FILL.

MOTZ ENTERPRISES, INC.
 Flexamat
 (513)772-6689
 Info@Flexamat.com
 Flexamat.com

Flexamat
 PERMANENT EROSION CONTROL

REV - 1



REVISION

ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE

THE RESERVES AT COBALT CIRCLE
 BROWNSVILLE, TN.

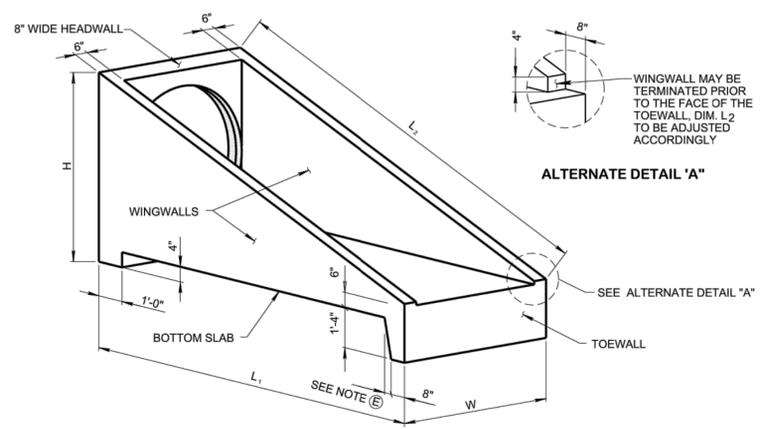
DEVELOPER:
 ENGINEER: RENAISSANCE GROUP, INC.

GRADING AND DRAINAGE DETAILS
 LOCATION: 1616 EAST JEFFERSON STREET
 BROWNSVILLE, TN.

DESIGN: JWW DATE: 01/25/24
 DATE: 10/24
 SCALE: 1"=40'

DEPUTY CITY ENGINEER DATE CITY ENGINEER DATE

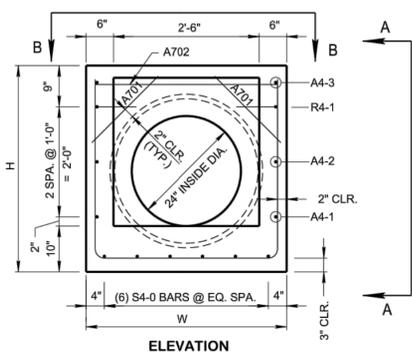
SHEET 05 OF 06



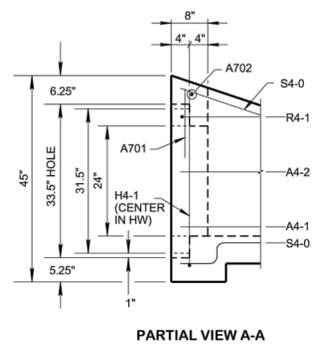
ISOMETRIC VIEW
NOTE: 3/8\"/>



ALTERNATE DETAIL 'A'



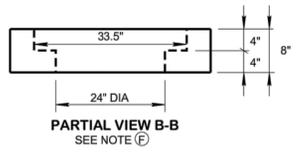
ELEVATION



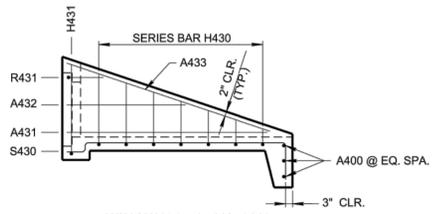
PARTIAL VIEW A-A

HEADWALL DETAILS

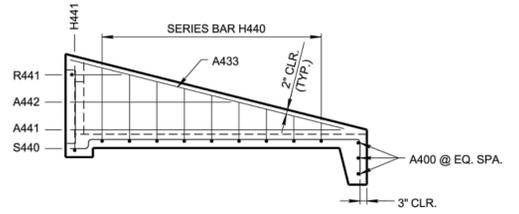
NOTE: INSTALL BARS A701 AT 45°
SEE GENERAL NOTES (C) & (F).



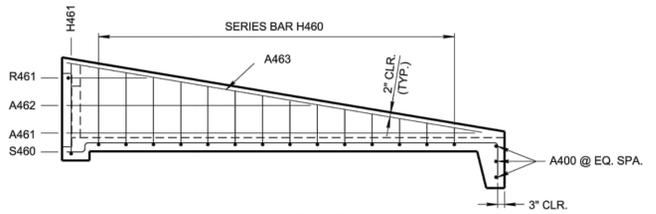
PARTIAL VIEW B-B
SEE NOTE (E)



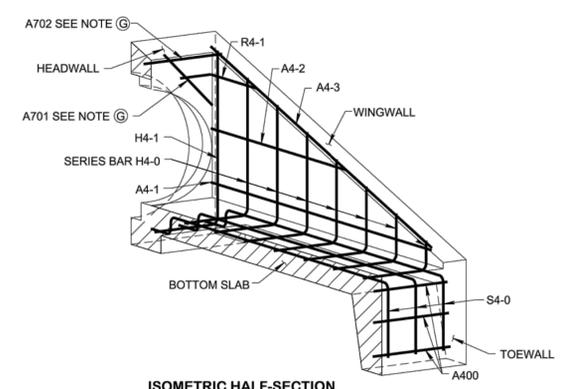
3:1 WINGWALL ELEVATION
NOTE: A-BARS IN HEADWALL NOT SHOWN FOR CLARITY.



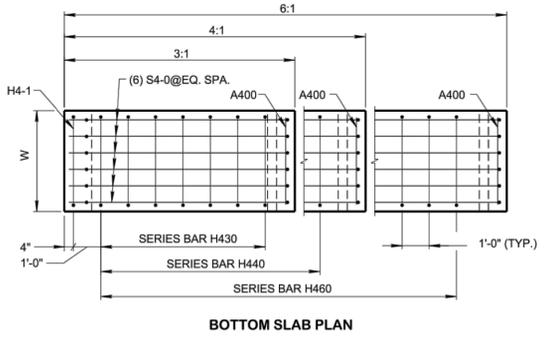
4:1 WINGWALL ELEVATION
NOTE: A-BARS IN HEADWALL NOT SHOWN FOR CLARITY.



6:1 WINGWALL ELEVATION
NOTE: A-BARS IN HEADWALL NOT SHOWN FOR CLARITY.



ISOMETRIC HALF-SECTION SHOWING REINFORCEMENT
(3:1 SHOWN, 4:1 & 6:1 SIMILAR)
SEE GENERAL NOTE (C)



BOTTOM SLAB PLAN

DIMENSIONS AND QUANTITIES FOR ONE ENDWALL 24" PIPE						
SLOPE	CONCRETE ENDWALL DIMENSIONS				ESTIMATED QUANTITIES	
	H	L ₁	L ₂	W	CLASS "A" CONC. CU. YD.	STEEL BAR REINF. LB.
3:1	3'-9"	8'-5"	8'-10 1/2"	3'-6"	1.28	124
4:1		11'-0"	11'-4"		1.61	153
6:1		16'-2"	16'-4 5/8"		2.26	215

- GENERAL NOTES**
- (A) DRAWING TO BE USED FOR ALL CAST-IN-PLACE AND ALL PRECAST 24" CONCRETE ENDWALLS (TYPE "U") FOR CROSS DRAINS ONLY. "U" ENDWALL TO BE PLACED AT 90° SKEW TO CENTERLINE. SEE STD. DWG. D-PE-99 FOR SKEWED CONNECTION DETAIL. WHEN CROSS DRAIN IS NOT PERPENDICULAR TO CENTERLINE, CAST-IN-PLACE CONCRETE ENDWALL SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD SPECIFICATIONS, SECTION 611 AND/OR SPECIAL PROVISIONS.
 - (B) SEE STD. DWG. D-PE-24B FOR BILL OF STEEL & PRECAST NOTES.
 - (C) ** IN BAR DESIGNATION REPRESENTS 3, 4 OR 6 FOR 3:1, 4:1 OR 6:1 SLOPES, RESPECTIVELY. SEE STD. DWG. D-PE-24B.
 - (D) SPLICING OF REINFORCEMENT IS ACCEPTABLE PROVIDED THAT A MINIMUM 21" SPLICE LENGTH IS USED.
 - (E) TOEWALL BACK SLOPE MAY BE CONSTRUCTED VARIABLE FROM VERTICAL UP TO 15°.
 - (F) 90° STEPS ARE SHOWN ON THE STEPPED HOLE DETAIL, HOWEVER MINOR VARIATIONS OF THE TAPER ARE ACCEPTABLE.
 - (G) OPTIONAL STEPPED HOLE OR HOLE FORMERS ARE ALLOWED PROVIDED THE AMOUNT OF COVER BETWEEN THE PIPE OPENING AND BARS A701 AND A702 IS THE SAME OR GREATER THAN SHOWN ON THIS DRAWING.
 - (H) PAYMENT WILL BE MADE UNDER:
611-07.57 24" ENDWALL (CROSS DRAIN) 3:1 EACH
611-07.58 24" ENDWALL (CROSS DRAIN) 4:1 EACH
611-07.59 24" ENDWALL (CROSS DRAIN) 6:1 EACH
 - (I) THE CONTRACTOR MAY BE ELECT TO SUBSTITUTE AN APPROVED ALTERNATIVE DESIGN.
 - (J) DIMENSIONAL AND REINFORCING TOLERANCES WILL BE AS SHOWN IN STANDARD OPERATING PROCEDURE (SOP) 5-3.

- REV. 6-14-13: REVISED NOTEG. ADDED NOTE (H) AND (I)
- REV. 1-6-15: REVISED HOLE OPENING SIZE. ADDED STEPPED HOLE DETAIL.
- REV. 1-21-16: REVISED GENERAL NOTE (B)
- REV. 7-5-17: MODIFIED GENERAL NOTES (C) AND (I)
- REV. 06-28-19: ADJUSTED A-A, B-B AND ELEVATION VIEWS. RENAMED AND REDREW SHEET.

MINOR REVISION -- FHWA APPROVAL NOT REQUIRED

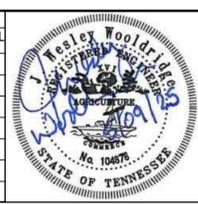
STATE OF TENNESSEE
STANDARD DRAWING
DEPARTMENT OF TRANSPORTATION

TYPE "U" CROSS DRAIN ENDWALL FOR 24" PIPE
(FOR 3:1, 4:1 & 6:1 SLOPES)

03-01-2012 D-PE-24A

NOT TO SCALE

REVISION		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE



THE RESERVES AT COBALT CIRCLE
BROWNSVILLE, TN.
DEVELOPER:
ENGINEER: RENAISSANCE GROUP, INC.

SHEET 06 OF 06

DIVISION OF ENGINEERING
GRADING AND DRAINAGE DETAILS
LOCATION: 1616 EAST JEFFERSON STREET
BROWNSVILLE, TN.
SURVEY: SEAS DATE: 10/24 BOOK: _____
DESIGN: JWW DATE: 01/25/CKD: JWW DATE: 01/25 SCALE: _____
DEPUTY CITY ENGINEER DATE CITY ENGINEER DATE

MAP LEGEND

- SF – SILT FENCE
- LOD – LIMIT OF DISTURBANCE
-  – CONCRETE WASHOUT
-  – CONSTRUCTION ENTRANCE
-  – GROUND DRAINAGE DIRECTION
- DV – DIVERSION BERM/DITCH

GENERAL NOTES

1. A MINIMUM OF 24-HOURS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE CITY OF BROWNSVILLE CONSTRUCTION INSPECTION OFFICE.
2. ALL NEWLY CUT OR FILLED AREAS, LACKING ADEQUATE VEGETATION, SHALL BE SEED, MULCH, FERTILIZED AND/OR SODDED AS REQUIRED TO EFFECTIVELY CONTROL SOIL EROSION.
3. THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE AND NOT NECESSARILY ALL OF THE SAME. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE UTILITY COMPANIES WHICH MAINTAIN A UTILITY LINE WITHIN THE BOUNDARIES OF THE PROJECT PRIOR TO THE INITIATION OF ANY CONSTRUCTION ON THE PROJECT OR IN THE STREETS BORDERING THE PROJECT. THE CONTRACTOR SHALL ALSO ASSUME FULL RESPONSIBILITY FOR DAMAGE TO ANY UTILITIES ENCOUNTERED WITHIN CONSTRUCTION PERIMETERS, WHETHER SHOWN ON THE CONSTRUCTION PLANS OR NOT, DURING THE WORK ON THE PROJECT. FOR SITE LOCATION OF EXISTING UTILITIES INVOLVING ML&W, SOUTH CENTRAL BELL, AND/OR TEXAS GAS COMPANY, CALL 1-800-351-1111.
4. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTIES.
5. ALL FILL SOILS SHALL BE COMPACTED TO A MINIMUM OF 95% OF STANDARD PROCTOR DENSITY (ASTM D-698) WITHIN 3% OF OPTIMUM MOISTURE CONTENT IN LIFTS NOT TO EXCEED SIX (6) INCHES OF COMPACTED THICKNESS.
6. ALL CONSTRUCTION MATERIALS AND PROCEDURES SHALL MEET OR EXCEED THE REQUIREMENTS OF THE CITY OF BROWNSVILLE STANDARD CONSTRUCTION SPECIFICATIONS.
7. PROPERTY LINES SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION. GRADING, CLEARING AND THE ERECTION OR REMOVAL OF FENCES ALONG PROPERTY LINES SHALL BE FULLY COORDINATED WITH ADJACENT PROPERTY OWNERS.
8. VERIFY SITE CONDITIONS PRIOR TO CONSTRUCTION. NOTIFY THE CITY OF BROWNSVILLE CONSTRUCTION INSPECTION OFFICE ENGINEER OF ANY VARIATIONS PRIOR TO COMMENCEMENT OF WORK.
9. ALL GRADING WORK SHALL BE PERFORMED IN SUCH A MANNER THAT ADJACENT PROPERTIES ARE NOT DAMAGED OR ADVERSELY AFFECTED.
10. LOT DRAINAGE: FINISH GRADE SHALL BE SLOPED AWAY FROM THE FOUNDATION FOR DRAINAGE. THE FINISH GRADE MUST BEGIN AT LEAST 12-INCHES BELOW THE TOP OF THE FOUNDATION WALL OR THE GRADE OF THE CONCRETE SLAB AT THE INTERIOR IN THE CASE OF AN INTEGRAL SLAB AND FOUNDATION. THE MINIMUM GRADE AWAY FROM THE FOUNDATION SHALL BE TWO PERCENT (2%) IN ALL DIRECTIONS. THE DRIVEWAY SHALL BE SLOPED DOWN AT TWO PERCENT (2%) FOR AT LEAST EIGHT FEET FROM THE STRUCTURE.



VICINITY

—CAUTION NOTICE TO CONTRACTOR—

IN CASE OF CONFLICTS BETWEEN EROSION CONTROL PLANS, THE SWPPP DOCUMENT, ANY PROJECT OR MUNICIPAL SPECIFICATIONS AND THE ACTUAL STATE NPDES GENERAL PERMIT, THE MOST STRINGENT REQUIREMENTS SHALL APPLY.
IF PROPERLY IMPLEMENTED, THIS PLAN WILL PROVIDE AN EFFECTIVE MEANS FOR CONTROLLING EROSION. HOWEVER, IT IS ACKNOWLEDGED THAT NO ONE PLAN CAN BE PREPARED THAT WILL DEPICT ALL POSSIBLE CONTROL MEASURES NECESSARY FOR VARIOUS STAGES OF CONSTRUCTION. THE CONTRACTOR SHALL INCLUDE IN THE BASE BID ADEQUATE FUNDS TO PROVIDE ALL EROSION CONTROL MEASURES NECESSARY TO COMPLY WITH CODES FOR THE DURATION OF THE CONSTRUCTION PROJECT.

PHASE 1 SEQUENCING

1. INSTALL PERIMETER SILT FENCE.
2. CONSTRUCT ENTRY/EXIT & CONC. WASHOUT
3. CONSTRUCT SEDIMENT TRAP AND TEMPORARY DIVERSION BERMS/DITCHES.
4. DEMOLISH EXISTING STRUCTURES.

LIMITS OF DISTURBANCE

ALL GROUND AND SUBGRADE DISTURBING ACTIVITIES SHALL BE RESTRICTED TO WITHIN THE LIMITS OF DISTURBANCE SHOWN ON THE EROSION CONTROL PLANS. NO GROUND OR SUBGRADE DISTURBANCES NOR STORAGE OF NEW, SALVAGED OR WASTE MATERIALS OR CHEMICALS SHALL OCCUR OR BE STORED BEYOND THE LIMITS SHOWN. IF SUCH DISTURBANCES OR STORAGE NEEDS ARE REQUIRED BEYOND THE LIMITS SHOWN, THE CONTRACTOR SHALL UPDATE THE NPDES PERMIT COVERAGE FOR THE SITE PRIOR TO INITIATING SUCH CONSTRUCTION ACTIVITIES.

BEST MANAGEMENT PRACTICES SEQUENCE

NOTE: UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING AREAS (AS APPLICABLE): TRAILER, PARKING, LAY DOWN, PORTA-POTTY, WHEEL WASH, CONCRETE WASHOUT, MASON'S AREA, FUEL AND MATERIAL STORAGE CONTAINERS, SOLID WASTE CONTAINERS, ETC., IMMEDIATELY DENOTE THEM ON THE SITE MAPS AND NOTE ANY CHANGES IN LOCATION AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS. IN ADDITION, NOTE ANY OFF-SITE AREAS WHERE FILL IS IMPORTED FROM OR SOIL IS EXPORTED TO ON THE SITE MAPS.

ACREAGE SUMMARY

EX. IMPERVIOUS SURFACE	0.12 ACRES
EX. PERVIOUS SURFACE	5.00 ACRES
IMPERVIOUS SURFACE AT COMPLETION	2.13 ACRES
PERVIOUS/SEEDED AREA AT COMPLETION	2.99 ACRES
TOTAL AREA	5.12 ACRES



GRAPHIC SCALE

(IN FEET)
1 inch = 40 ft.

SHEET 01 OF 04

DIVISION OF ENGINEERING
EROSION PREVENTION & SEDIMENT CONTROL PH. 1
LOCATION: 1616 EAST JEFFERSON STREET
BROWNSVILLE, TN.

SURVEY: SEAS DATE: 10/24 BOOK: _____
DESIGN: _____ DATE: 01/25/CKD DATE: 01/25 SCALE: 1"=40'
DEPUTY CITY ENGINEER _____ DATE _____ CITY ENGINEER _____ DATE _____

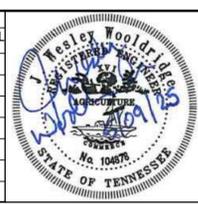
SITE BENCHMARK

RIM OF EXISTING S.M.H. LOCATED IN THE CENTER OF EAST JEFFERSON STREET
ELEVATION: 381.76

FLOOD NOTE:

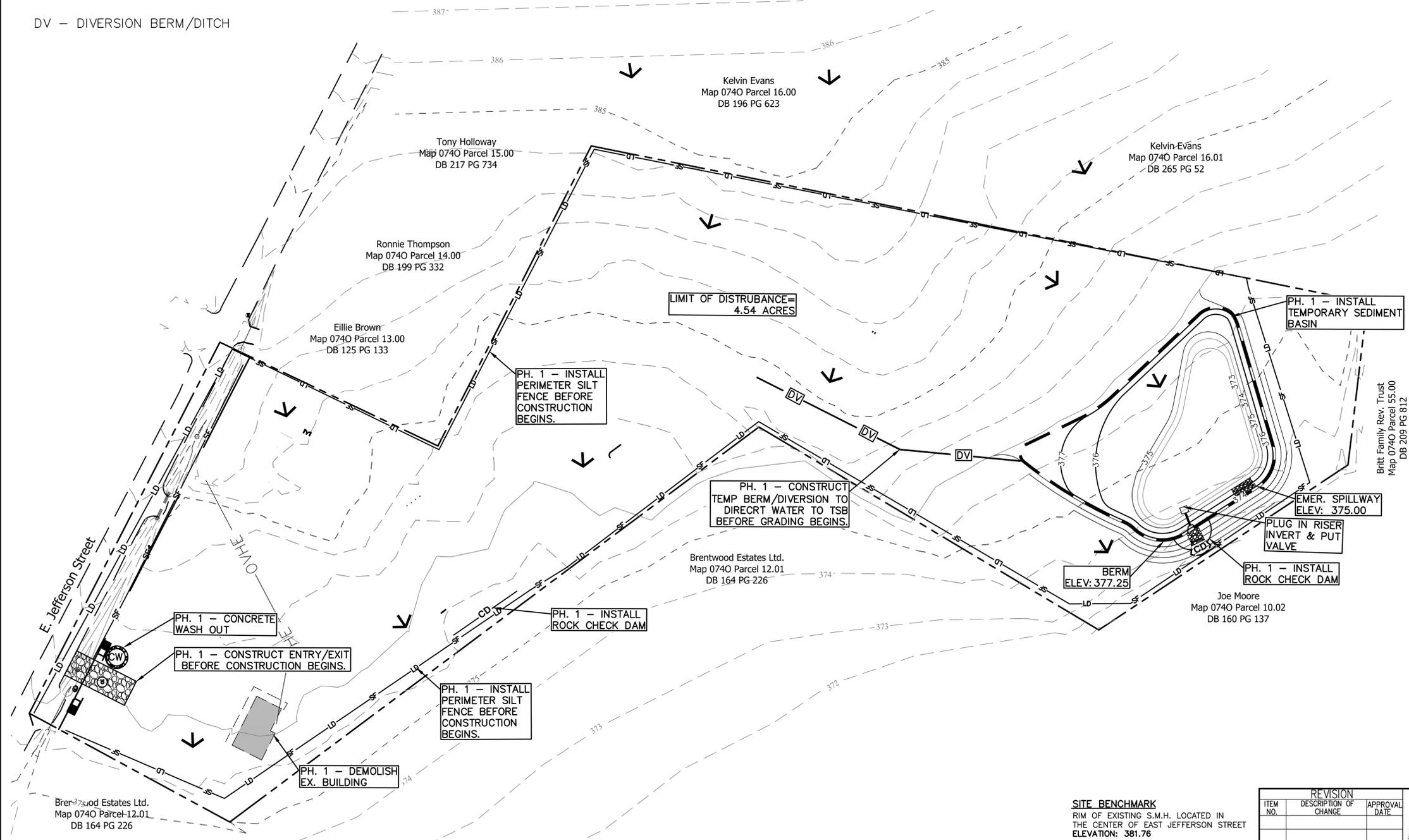
THIS PROPERTY SHOWN HEREON DOES NOT GRAPHICALLY FALL WITHIN A SPECIAL DESIGNATED FLOODZONE PER FEMA FIRM MAP PANEL 47157C0185F, DATED 09/27/2007

REVISION		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE



THE RESERVES AT COBALT CIRCLE
BROWNSVILLE, TN.

DEVELOPER:
ENGINEER: RENAISSANCE GROUP, INC.



Brentwood Estates Ltd.
Map 0740 Parcel 12.01
DB 164 PG 226

MAP LEGEND

- SF - SILT FENCE
- LOD - LIMIT OF DISTURBANCE
-  - CONCRETE WASHOUT
-  - CONSTRUCTION ENTRANCE
-  - INLET PROTECTION
-  - WATTLE PROTECTION

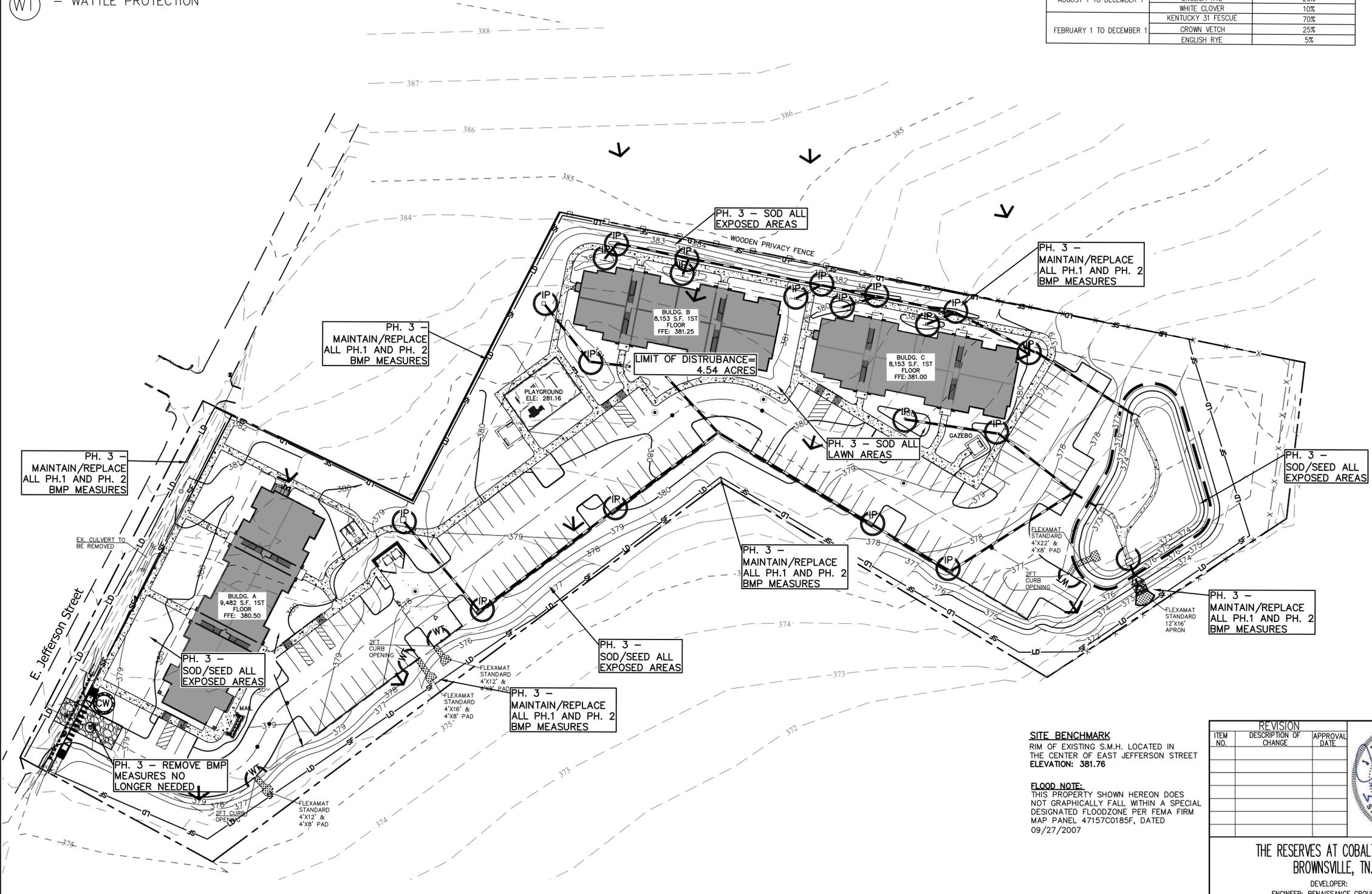
- GENERAL NOTES**
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TEMPORARY SEEDING MIXTURE(S)		
SEEDING DATES	SEED TYPE	PERCENTAGE
JANUARY 1 TO MAY 1	ITALIAN RYE	33%
	KOREAN LESPEDEZA	33%
	SUMMER OATS	34%
MAY 1 TO JULY 15	SUDAN-SORGHUM	100%
	ENGLISH RYE	100%
JULY 1 TO JANUARY 1	KOREAN LESPEDEZA	100%
	GERMAN MILLET	100%

PERMANENT SEEDING MIXTURE(S)		
SEEDING DATES	SEED TYPE	PERCENTAGE
FEBRUARY 1 TO JULY 1	KENTUCKY 31 FESCUE	80%
	KOREAN LESPEDEZA	15%
	ENGLISH RYE	5%
JUNE 1 TO AUGUST 15	KENTUCKY 31 FESCUE	55%
	ENGLISH RYE	20%
	KOREAN LESPEDEZA	15%
APRIL 15 TO AUGUST 15	BERMUDA GRASS (budded)	70%
	ANNUAL LESPEDEZA	30%
	KENTUCKY 31 FESCUE	70%
AUGUST 1 TO DECEMBER 1	ENGLISH RYE	20%
	WHITE CLOVER	10%
	KENTUCKY 31 FESCUE	70%
FEBRUARY 1 TO DECEMBER 1	CROWN VETCH	25%
	ENGLISH RYE	5%



VICINITY

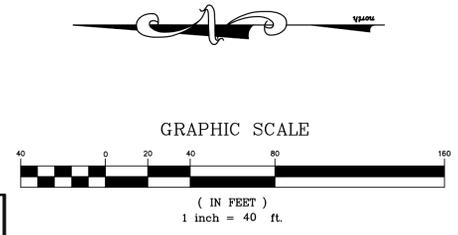


-CAUTION NOTICE TO CONTRACTOR-
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- PHASE 3 SEQUENCING**
1. MAINTAIN/REPLACE/REPAIR ALL BMP MEASURES FROM PH. 1 AND PH. 2.
 2. BEGIN/COMPLETE ALL SEEDING AND SODDING OPERATIONS
 3. REMOVE SILT FENCE BARRIER AND TEMPORARY EROSION CONTROL MEASURES
 4. REMOVE CONSTRUCTION EXIT AND CLEAN UP COMPLETED SITE

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BEST MANAGEMENT PRACTICES SEQUENCE
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SITE BENCHMARK
 RIM OF EXISTING S.M.H. LOCATED IN THE CENTER OF EAST JEFFERSON STREET
 ELEVATION: 381.76

FLOOD NOTE:
 THIS PROPERTY SHOWN HEREON DOES NOT GRAPHICALLY FALL WITHIN A SPECIAL DESIGNATED FLOODZONE PER FEMA FIRM MAP PANEL 47157C0185F, DATED 09/27/2007

REVISION		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE

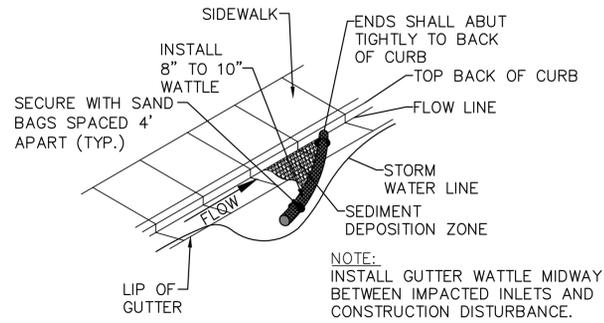


THE RESERVES AT COBALT CIRCLE
 BROWNSVILLE, TN.
 DEVELOPER:
 ENGINEER: RENAISSANCE GROUP, INC.

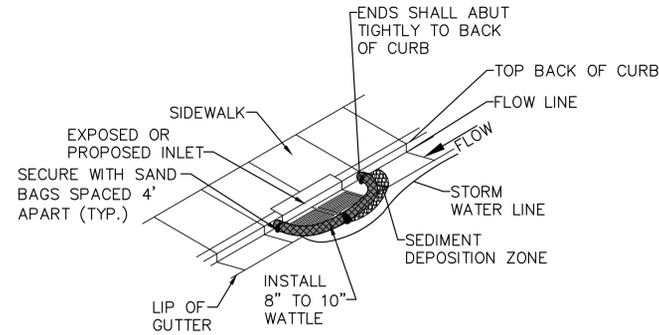
SHEET 03 OF 04

DIVISION OF ENGINEERING
EROSION PREVENTION & SEDIMENT CONTROL PH. 3
 LOCATION: 1616 EAST JEFFERSON STREET
 BROWNSVILLE, TN.

SURVEY: SEAS DATE: 10/24 BOOK: _____
 DESIGN: _____ DATE: 01/25_CKD DATE: 01/25 SCALE: 1"=40'
 DEPUTY CITY ENGINEER _____ DATE _____ CITY ENGINEER _____ DATE _____



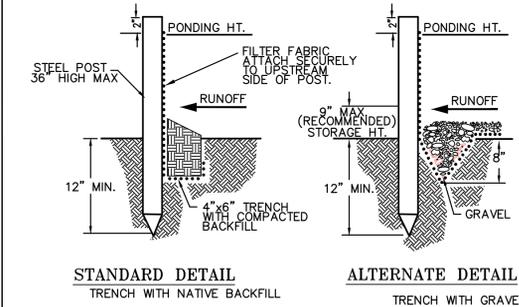
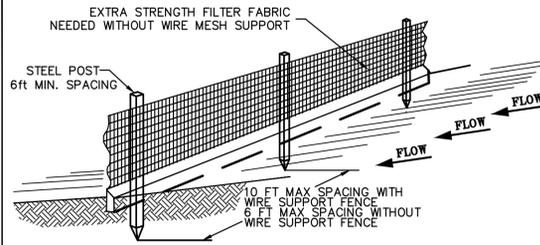
GUTTER PROTECTION SETUP
N.T.S.



WATTLE MAINTENANCE NOTES:

1. THE CONTRACTOR SHALL INSPECT WATTLES EVERY TWO WEEKS AND AFTER ANY SIGNIFICANT STORM EVENT AND MAKE REPAIRS OR REMOVE SEDIMENT ACCUMULATED BEHIND WATTLE AS NECESSARY.
2. SEDIMENT ACCUMULATED BEHIND WATTLE SHALL BE REMOVED WHEN THE SEDIMENT HAS ACCUMULATED TO ONE HALF THE DIAMETER OF THE WATTLE.
3. WATTLES SHALL REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND IS ACCEPTED BY THE CITY.

TEMPORARY CURB INLET WATTLE PROTECTION



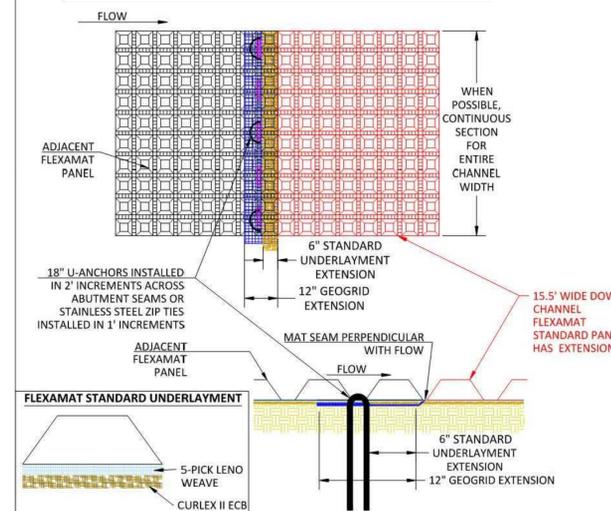
- NOTE:
1. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.
 2. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
 3. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.

- FABRIC:
1. AMOCO 1198
 2. BELTECH 810
 3. MIRAFI 130X
 4. LING GTF 190
 5. SI 915 SC

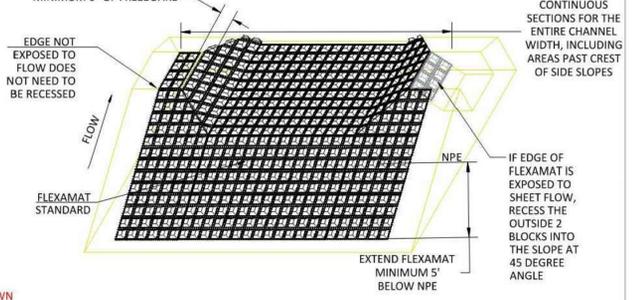
SILT FENCE DETAIL

N. T. S.

ABUTMENT METHOD FOR SEAMS PERPENDICULAR WITH FLOW



EMERGENCY SPILLWAY - ISOMETRIC VIEW



OVERFLOW DIKE - PROFILE VIEW



FLEXAMAT STANDARD - OVERFLOW CHANNEL PERPENDICULAR TO FLOW

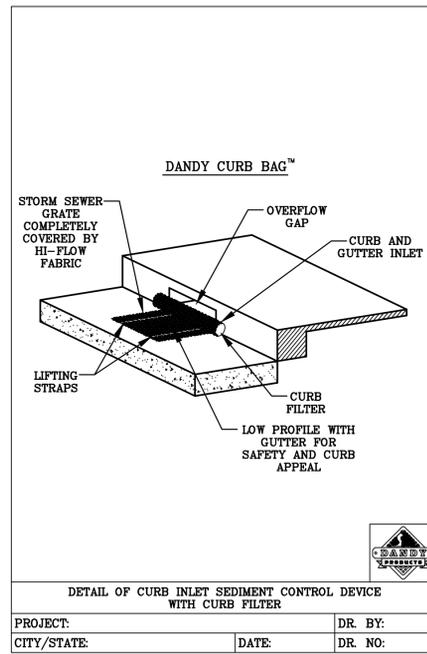
CONSTRUCTION NOTES:

1. AN ENGINEER OR MANUFACTURERS REPRESENTATIVE SHALL BE ONSITE FOR THE START OF THE INSTALLATION.
2. ALL SUBGRADE SURFACES PREPARED FOR PLACEMENT OF MATS SHALL BE SMOOTH AND FREE OF ALL ROCKS, STICKS, ROOTS, OTHER PROTRUSIONS, OR DEBRIS OF ANY KIND. THE PREPARED SURFACE SHALL PROVIDE A FIRM UNYIELDING SUBGRADE FOR THE MATS.
3. PRIOR TO THE FLEXAMAT STANDARD INSTALLATION SEED AND FERTILIZE SUBGRADE WITH SITE SPECIFIC SEED MIX IN ACCORDANCE WITH THE PROJECT PLANS AND SPECIFICATIONS.
4. MAT SHALL EXTEND 5' BELOW NORMAL POND ELEVATION. (FOR EMERGENCY OVERFLOW INSTALLATIONS EXTEND THE MAT 3' DOWN THE INSIDE FACE OF THE OVERFLOW DIKE.)
5. INSTALL FLEXAMAT STANDARD ROLLS. MANUFACTURER RECOMMENDS INSTALLING THE WIDEST MAT POSSIBLE FOR SPILLWAY APPLICATIONS.
6. INSTALLATION STARTS AT THE DOWN CHANNEL END AND MOVES UP THE CHANNEL, TOWARDS THE START OF CHANNEL.
 - 6.1. FOR WIDTHS WIDER THAN 16', INSTALL 15.5' WIDE MATS WITH GEOGRID AND STANDARD UNDERLAYMENT EXTENSIONS. INSTALL ADJACENT MAT OVER THE 12" GEOGRID AND 6" STANDARD UNDERLAYMENT EXTENSIONS OF THE ADJACENT MATS. ENSURE THE GEOGRID AND STANDARD UNDERLAYMENT EXTENSIONS ARE LAYING FLAT ON THE SUBGRADE BEFORE INSTALLING ADJACENT MAT OVER THE EXTENSIONS.
 - 6.2. INSTALL 18" U-ANCHORS IN 2' INCREMENTS OR STAINLESS STEEL ZIP TIES IN 1' INCREMENTS ACROSS MAT ABUTMENT SEAMS. INSTALL U-ANCHORS AND ZIP TIES PERPENDICULAR TO FLOW DIRECTLY BEHIND FIRST BLOCK OF THE UP-CHANNEL MAT. U-ANCHORS SHALL ENCOMPASS TWO CORDS OF GEOGRID ON EACH MAT. ZIP TIES SHALL ENCOMPASS 3 CORDS OF GEOGRID FROM EACH MAT.
7. AT THE END OF THE ARMORED SPILLWAY, EMBED THE MAT 18" IN A TERMINATION TRENCH. FILL AND COMPACT TERMINATION TRENCH WITH SUITABLE FILL. (AS SPECIFIED BY EOR.)

MOTZ ENTERPRISES, INC.
Flexamat
(513)772-6689
Info@Flexamat.com
Flexamat.com

Flexamat
PERMANENT EROSION CONTROL

REV-1

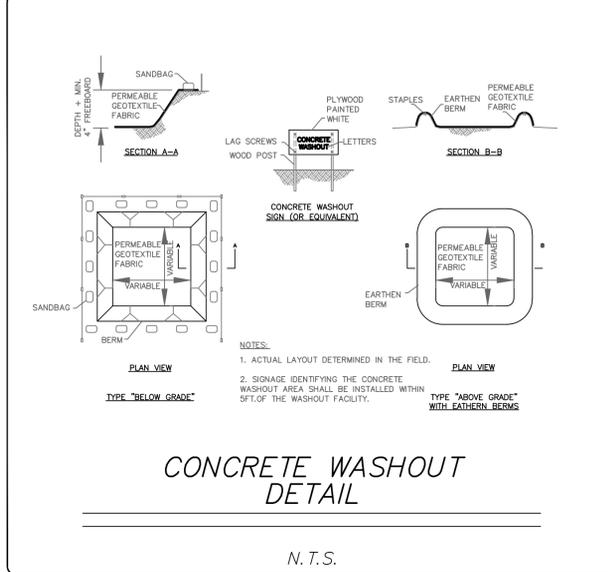
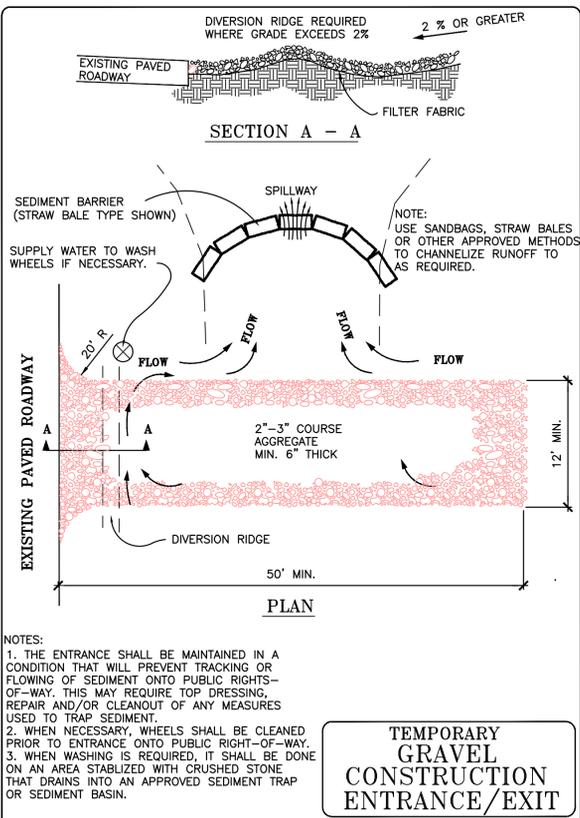


DANDY CURB BAG™ SPECIFICATIONS

NOTE: THE DANDY CURB BAG™ WILL BE MANUFACTURED IN THE U.S.A FROM A WOVEN MONOFILAMENT FABRIC THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS:

Mechanical Properties	Test Method	Units	MINV
Grob Tensile Strength	ASTM D 4832	kN (lbs)	1.62 (365) X 0.89 (200)
Grob Tensile Elongation	ASTM D 4832	%	24 X 10
Puncture Strength	ASTM D 4833	kN (lbs)	0.40 (90)
Median Burst Strength	ASTM D 3769	kPa (psi)	3597 (450)
Tensile Tear Strength	ASTM D 4533	kN (lbs)	0.51 (115) X 0.33 (75)
UV Resistance	ASTM D 4355	%	80
Apparent Opening Size	ASTM D 4151	Mm (US Std Sieve)	0.425 (40)
Flow Rate	ASTM D 4491	l/min/m² (gal/min/ft²)	5807 (145)
Permeability	ASTM D 4491	Sec	2.1

*Note: All Dandy Curb Bags™ can be ordered with our optional oil absorbents

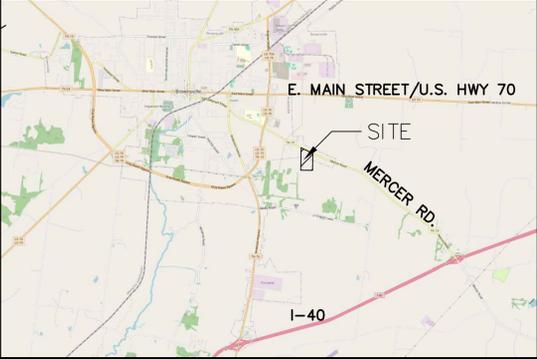
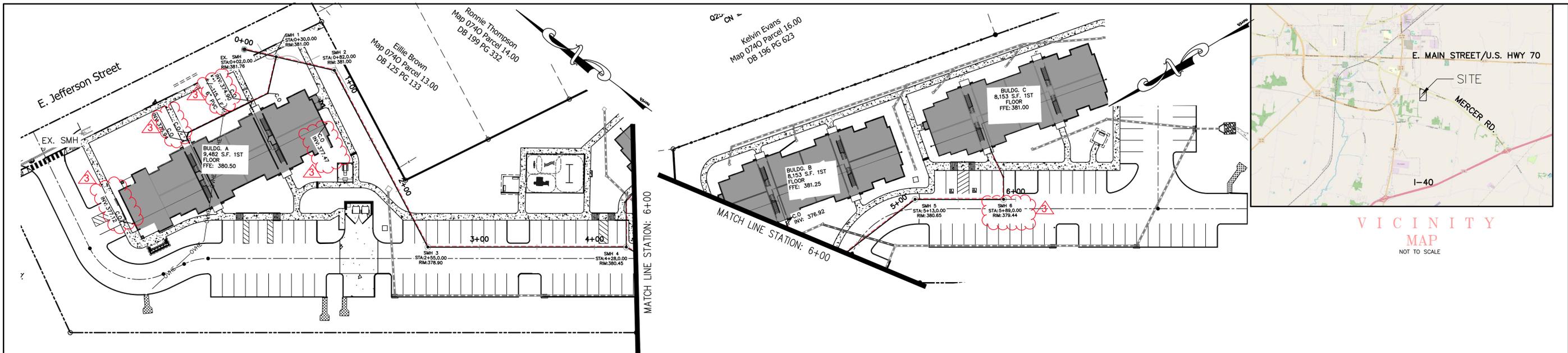


ITEM NO.	REVISION DESCRIPTION OF CHANGE	APPROVAL DATE

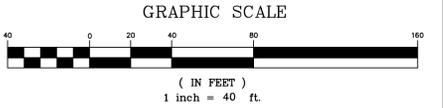
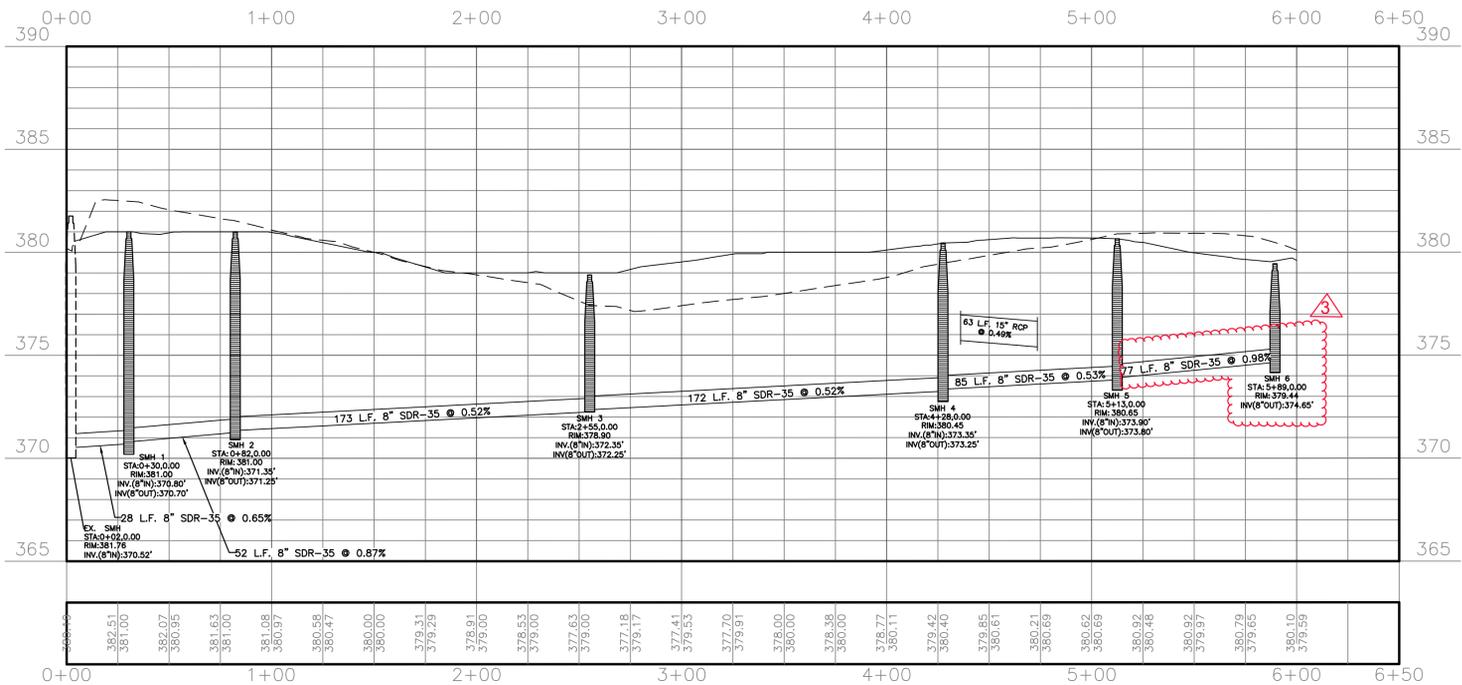


THE RESERVES AT COBALT CIRCLE
BROWNSVILLE, TN.
DEVELOPER:
RENAISSANCE GROUP, INC.

EROSION PREVENTION & SEDIMENT CONTROL DETAILS
DIVISION OF ENGINEERING
LOCATION: 1616 EAST JEFFERSON STREET
BROWNSVILLE, TN.
DESIGN: JWW DATE: 01/25/24
SCALE: 1"=40'



SS CL (1) PROFILE



SITE BENCHMARK
RIM OF EXISTING S.M.H. LOCATED IN THE CENTER OF EAST JEFFERSON STREET
ELEVATION: 381.76

FLOOD NOTE:
THIS PROPERTY SHOWN HEREON DOES NOT GRAPHICALLY FALL WITHIN A SPECIAL DESIGNATED FLOODZONE PER FEMA FIRM MAP PANEL 47157C0185F, DATED 09/27/2007

REVISION	DESCRIPTION OF CHANGE	APPROVAL DATE
1	ASI #1	07/25
2	ASI #3	10/25

THE RESERVES AT COBALT CIRCLE
BROWNSVILLE, TN.

DEVELOPER:
ENGINEER: RENAISSANCE GROUP, INC.

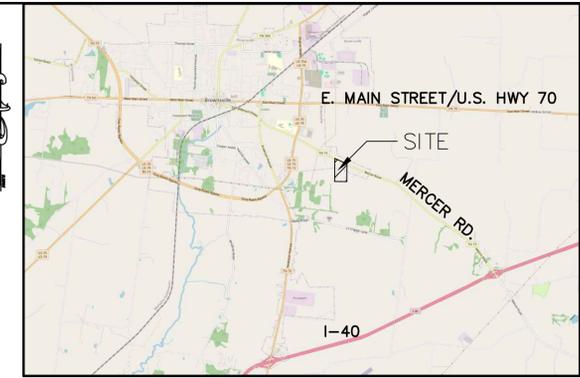
DIVISION OF ENGINEERING
S.S PLAN AND PROFILE
LOCATION: 1616 EAST JEFFERSON STREET
BROWNSVILLE, TN.

SURVEY: SEAS
DESIGN: _____ DATE: 01/25 CKD: _____ DATE: 01/25 SCALE: _____

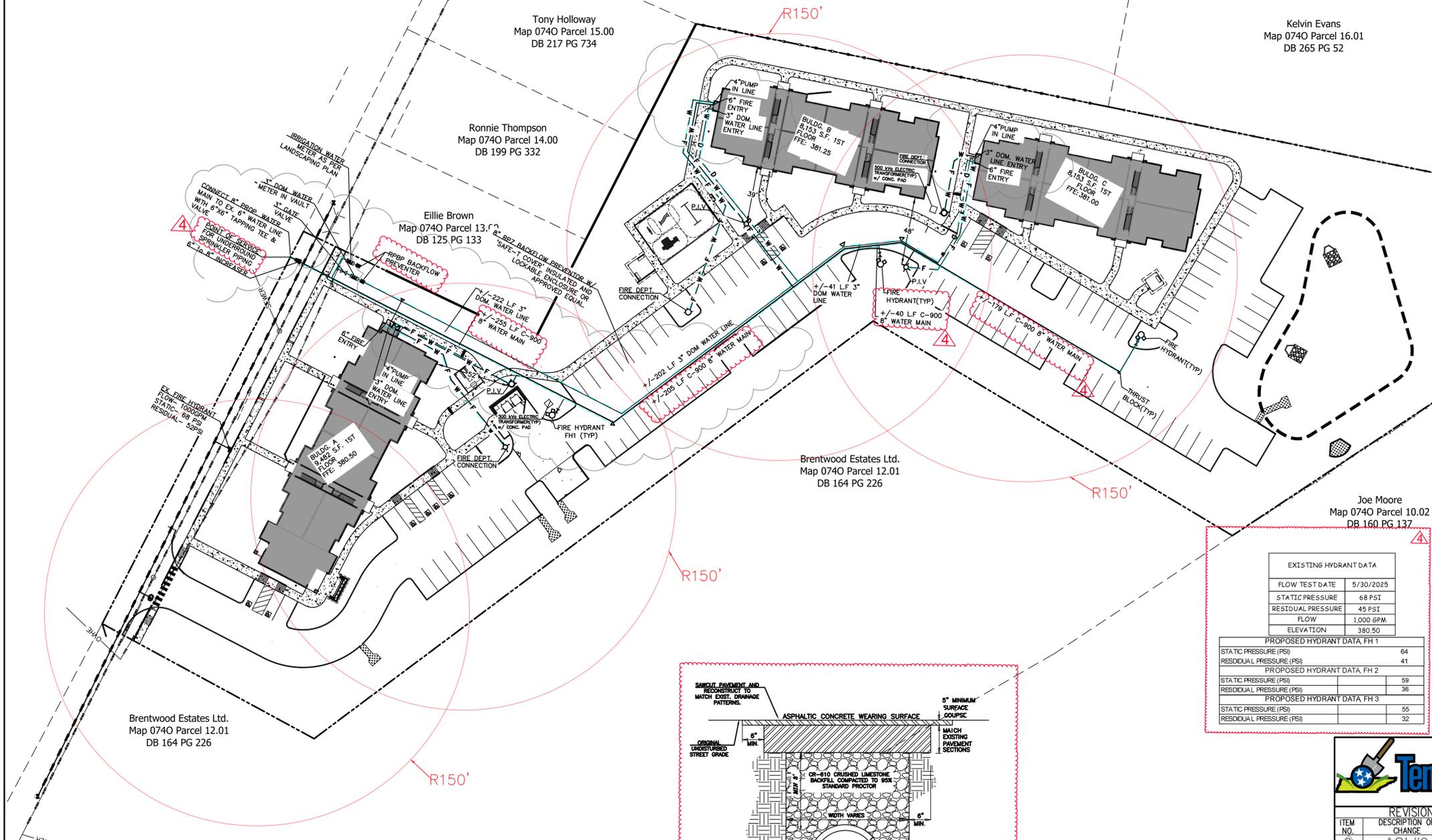
DEPUTY CITY ENGINEER _____ DATE _____ CITY ENGINEER _____ DATE _____

LEGEND	
SEWER LINE	
WATER LINE	
PROPERTY LINE	
TRACER WIRE (WATER)	
TRACER WIRE (SEWER)	

WATER LEGEND	
	FIRE HYDRANT
	THRUST BLOCK
	F.D.C.
	P.I.V.
	WATER VALVE



VICINITY MAP
NOT TO SCALE



- GENERAL NOTES
- LOCATION OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE AND ARE NOT NECESSARILY ALL OF THE SAME. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE APPROPRIATE UTILITY COMPANY TO DETERMINE THE EXACT LOCATION OF ALL UTILITIES AND/OR UNDERGROUND STRUCTURES PRIOR TO THE INITIATION OF ANY CONSTRUCTION. CONTRACTOR SHALL ALSO ASSUME FULL RESPONSIBILITY FOR DAMAGE TO ANY UTILITIES ENCOUNTERED WITHIN CONSTRUCTION PERIMETERS. FOR SITE LOCATIONS OF EXISTING UTILITIES, PLEASE CALL 811.
 - CONTRACTOR SHALL ENSURE UNINTERRUPTED SEWER SERVICE ON EXISTING SEWER AND SERVICE CONNECTIONS BY PROVIDING AMPLE TEMPORARY WASTEWATER PUMPING AND/OR BYPASSING.
 - CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTIES.
 - CONTRACTOR SHALL NOTIFY THE CITY OF BROWNSVILLE AUTHORITY A MINIMUM OF 24 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION.
 - ALL AREAS IN CUT OR FILL WHERE VEGETATION HAS BEEN REMOVED SHALL BE SEEDED, MULCHED, FERTILIZED, AND/OR SODDED AS REQUIRED TO PREVENT EROSION.
 - THE CONTRACTOR SHALL VERIFY EXISTING DATA AND REPORT ANY SIGNIFICANT DISCREPANCIES TO THE ENGINEER.
 - ALL SANITARY SEWER TO BE CONSTRUCTED AS PER CITY STANDARD CONSTRUCTION SPECIFICATIONS. SANITARY SEWER SERVICE CONNECTIONS TO BE INSTALLED AS PER CITY STANDARD.
 - ALL SEWER MANHOLE LIDS IN OPEN AREAS ARE TO BE CONSTRUCTED 1.5' ABOVE PROPOSED GRADE. IN BACKYARDS, MANHOLE LIDS ARE TO BE 1.5' ABOVE INITIAL GRADE, 0.5' ABOVE FINAL GRADE.
 - ALL SANITARY SEWER, INCLUDING SERVICE CONNECTIONS, WHICH HAS LESS THAN 1.5' CLEARANCE (OUTSIDE OF PIPES) WITH DRAINAGE OR IN FILLED AREAS SHALL BE CLASS 50 D.I.P. OR CONCRETE ENCASED, 10' MINIMUM BOTH SIDES OF CROSSING. ALL DUCTILE IRON PIPE (D.I.P.) SHALL BE POLYETHYLENE LINED OR SHALL BE TREATED WITH PROTECTO 401 OR APPROVED EQUIVALENT.
 - THE CITY OF BROWNSVILLE SHALL HAVE INGRESS/EGRESS RIGHTS TO USE PRIVATE DRIVES AND YARDS FOR THE PURPOSE OF MAINTAINING ALL PUBLIC SEWER LINES AND SHALL BEAR NO RESPONSIBILITY FOR THE MAINTENANCE OF SAID PRIVATE DRIVES AND YARDS.
 - NO TREES, SHRUBS, PERMANENT STRUCTURES, OR OTHER UTILITIES (EXCEPT FOR CROSSINGS) WILL BE ALLOWED WITHIN SANITARY SEWER EASEMENT. NO OTHER UTILITIES OR SERVICES MAY OCCUPY SANITARY SEWER EASEMENTS IN PRIVATE DRIVES AND YARDS EXCEPT FOR CROSSINGS.
 - ALL SANITARY SEWER MANHOLES IN REVERSE CROWN STREETS, ALLEYS, OR DRIVES, (PUBLIC OR PRIVATE) SHALL BE PROVIDED WITH GASKETS AND PLUGS FOR PICK HOLES TO PREVENT DRAINAGE INFLOW INTO SEWER SYSTEM.
 - THE CONTRACTOR SHALL PROVIDE ADEQUATE AND EFFECTIVE EROSION CONTROL AS NECESSARY TO PREVENT ANY SILTATION INTO EXISTING DRAINAGE SYSTEM AND/OR ADJACENT PROPERTIES.
 - DOMESTIC WATER LINE IS 3 INCHES WHICH IS TO CONNECT THE HOUSE OR BUILDING WITH THE CITY OF BROWNSVILLE WATER METER.
 - TRACER WIRE SHALL BE INSTALLED ALONG THE LENGTH OF ALL SEWER PIPES, SERVICE CONNECTIONS, MANHOLES AND STUBS PER STANDARD CONSTRUCTION SPECIFICATIONS AND STANDARD DETAIL (SST-17)

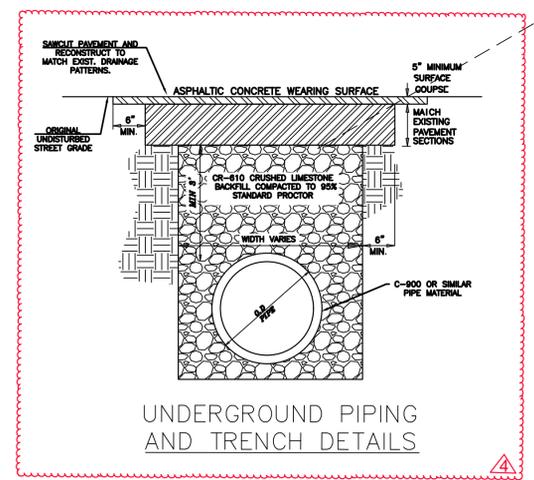
- NOTES
- INSTALLATION OF ALL SPRINKLER SYSTEM PIPING FROM THE POINT OF SERVICE MUST BE PERFORMED BY A TENNESSEE REGISTERED SPRINKLER CONTRACTOR.
 - PIPE MATERIALS SHALL BE C-900 FOR UNDERGROUND SPRINKLER PIPING MATERIAL.
 - MINIMUM 3' DEPTH SHALL BE BETWEEN TOP OF GROUND AND PIPE. (SEE UTILITY DETAIL SHEET)

EXISTING HYDRANT DATA	
FLOW TEST DATE	5/30/2025
STATIC PRESSURE	68 PSI
RESIDUAL PRESSURE	45 PSI
FLOW	1,000 GPM
ELEVATION	380.50

PROPOSED HYDRANT DATA FH 1	
STATIC PRESSURE (PSI)	64
RESIDUAL PRESSURE (PSI)	41

PROPOSED HYDRANT DATA FH 2	
STATIC PRESSURE (PSI)	59
RESIDUAL PRESSURE (PSI)	36

PROPOSED HYDRANT DATA FH 3	
STATIC PRESSURE (PSI)	55
RESIDUAL PRESSURE (PSI)	32



SITE BENCHMARK
RIM OF EXISTING S.M.H. LOCATED IN THE CENTER OF EAST JEFFERSON STREET ELEVATION: 381.76

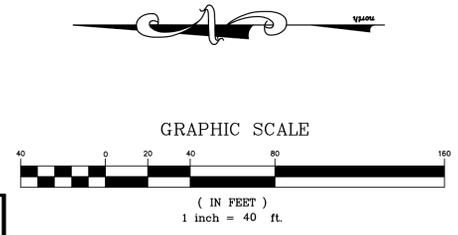
FLOOD NOTE:
THIS PROPERTY SHOWN HEREON DOES NOT GRAPHICALLY FALL WITHIN A SPECIAL DESIGNATED FLOODZONE PER FEMA FIRM MAP PANEL 47157C0185F, DATED 09/27/2007

Tennessee 811

REVISION	DESCRIPTION OF CHANGE	APPROVAL DATE
2	ASI #2	10/25
4	ASI #4	10/25

THE RESERVES AT COBALT CIRCLE
BROWNSVILLE, TN.

DEVELOPER:
ENGINEER: RENAISSANCE GROUP, INC.



SHEET 02 OF 04

DIVISION OF ENGINEERING
WATER PLAN
LOCATION: 1616 EAST JEFFERSON STREET
BROWNSVILLE, TN.

SURVEY: SEAS DATE: 10/24 BOOK: _____
DESIGN: _____ DATE: 01/25/CKD DATE: 01/25 SCALE: _____
DEPUTY CITY ENGINEER DATE CITY ENGINEER DATE

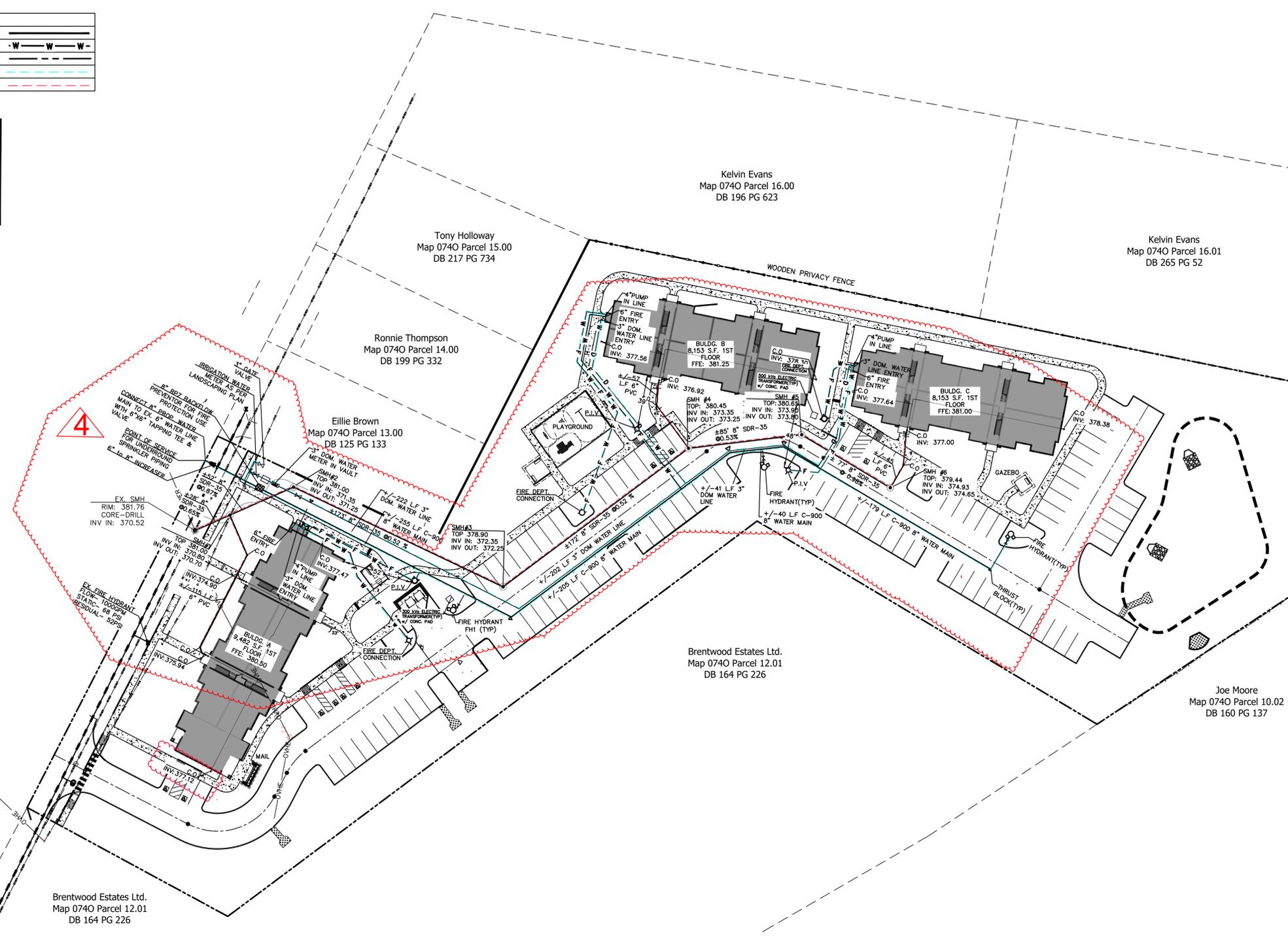
LEGEND	
SEWER LINE	
WATER LINE	
PROPERTY LINE	
TRACER WIRE (WATER)	
TRACER WIRE (SEWER)	

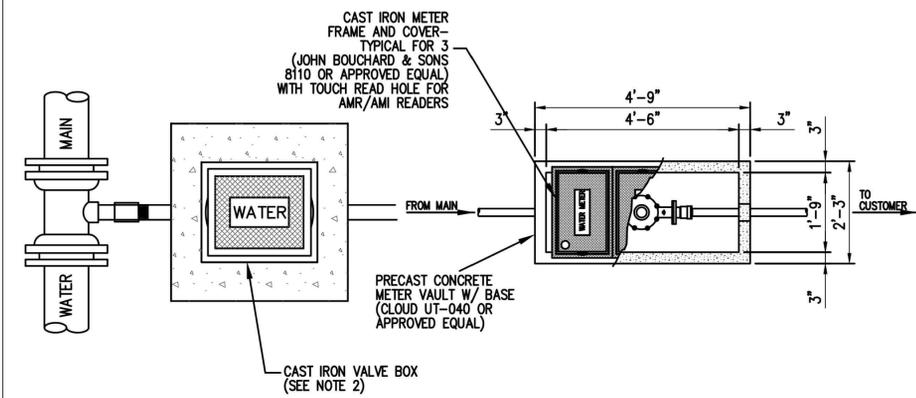
WATER LEGEND	
	FIRE HYDRANT
	THRUST BLOCK
	F.D.C.
	P.I.V.
	WATER VALVE



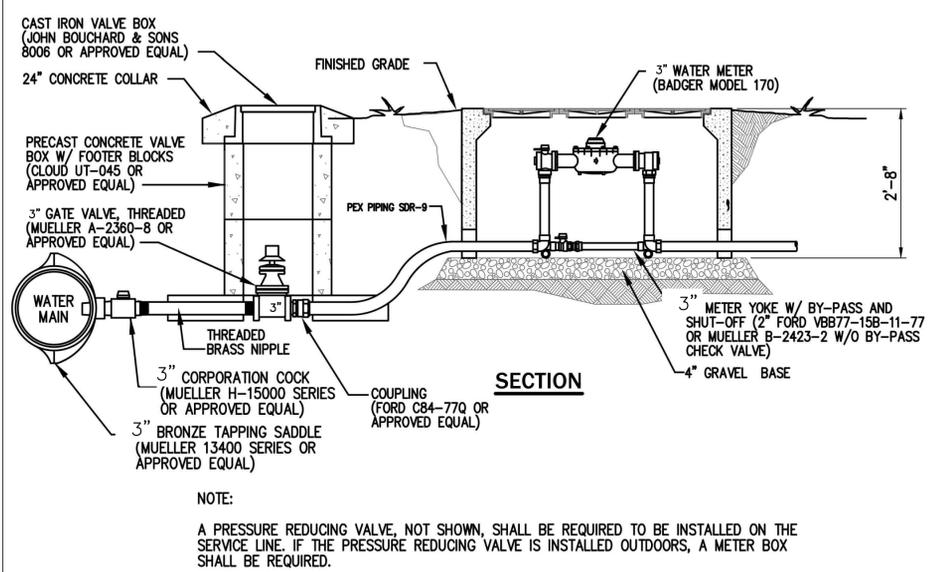
VICINITY
MAP
NOT TO SCALE

- GENERAL NOTES
1. LOCATION OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE AND ARE NOT NECESSARILY ALL OF THE SAME. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE APPROPRIATE UTILITY COMPANY TO DETERMINE THE EXACT LOCATION OF ALL UTILITIES AND/OR UNDERGROUND STRUCTURES PRIOR TO THE INITIATION OF ANY CONSTRUCTION. CONTRACTOR SHALL ALSO ASSUME FULL RESPONSIBILITY FOR DAMAGE TO ANY UTILITIES ENCOUNTERED WITHIN CONSTRUCTION PERIMETERS. FOR SITE LOCATIONS OF EXISTING UTILITIES, PLEASE CALL 811.
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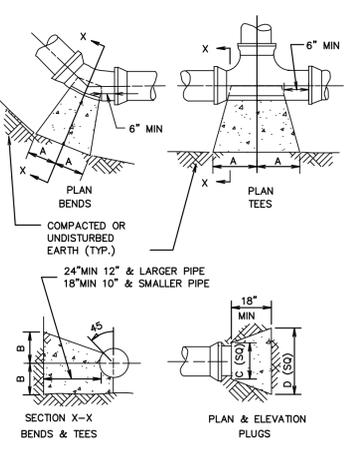




PLAN

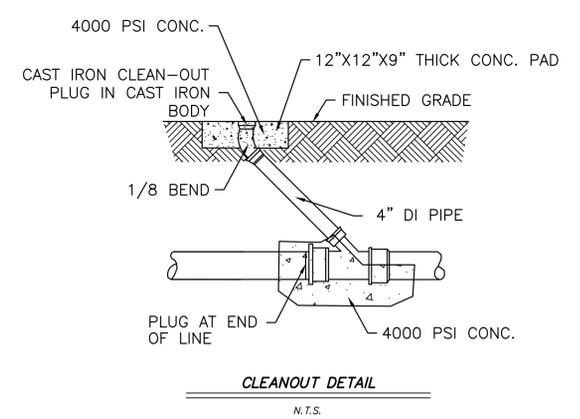


SECTION
3" WATER METER SERVICE ASSEMBLY VAULT DETAIL
N.T.S. W-7.5C

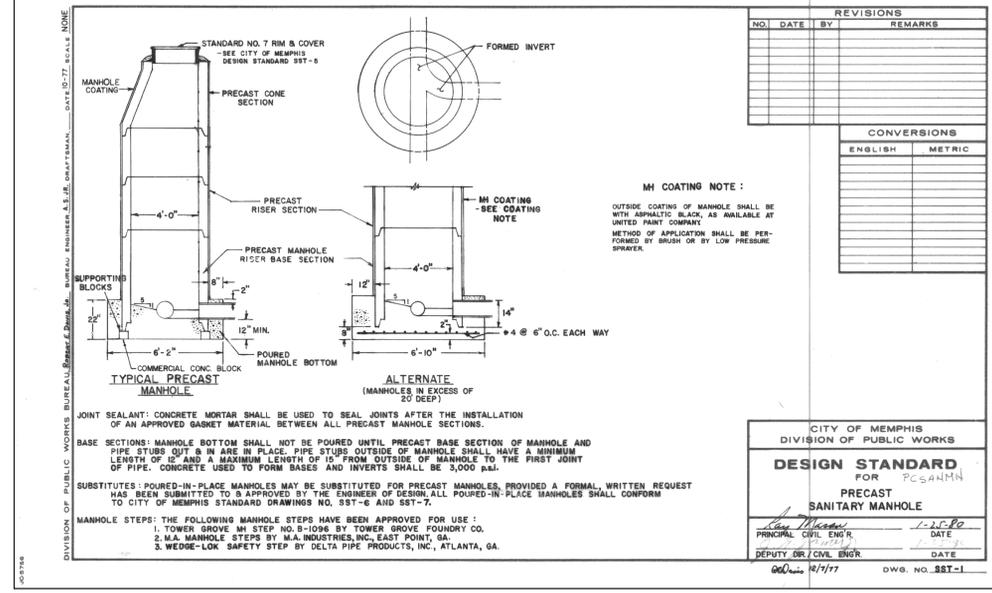


SIZE	1/4 BENDS		1/8 BENDS		TEES		PLUGS		
	A	B	A	B	A	B	C	D	
6"	16"	10"	9"	10"	6"	8"	10"	10"	21"
8"	22"	13"	12"	13"	8"	10"	13"	16"	29"
10"	26"	17"	14"	17"	10"	13"	16"	20"	36"
12"	29"	21"	16"	21"	11"	16"	18"	24"	41"
14"	35"	24"	19"	24"	12"	20"	22"	27"	48"
16"	38"	27"	21"	27"	12"	24"	24"	30"	54"

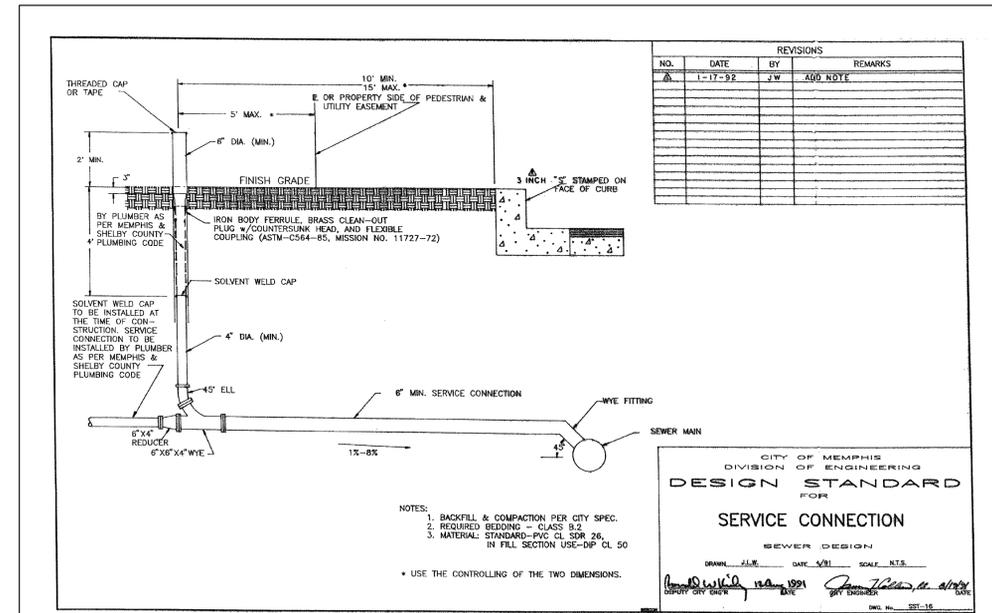
THRUST BLOCKS
N.T.S.



CLEANOUT DETAIL
N.T.S.

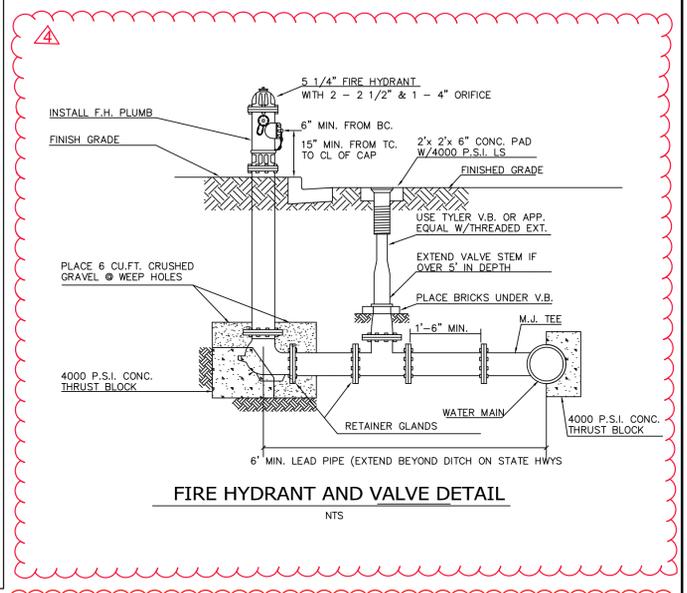


DESIGN STANDARD FOR PRECAST SANITARY MANHOLE
CITY OF MEMPHIS DIVISION OF PUBLIC WORKS
DATE: 12/1/77
DWG. NO. SST-1

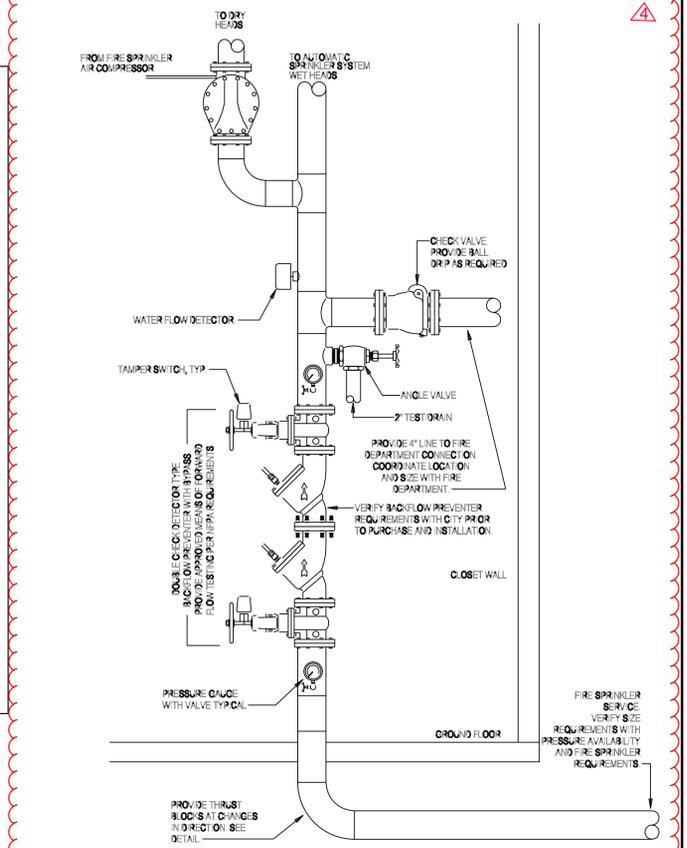


NO.	DATE	BY	REMARKS
1	1-17-92	JW	ADD NOTE

DESIGN STANDARD FOR SERVICE CONNECTION
CITY OF MEMPHIS DIVISION OF ENGINEERING
DATE: 1-17-92
DWG. NO. SST-16

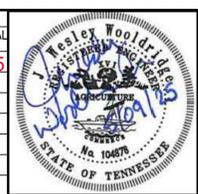


FIRE HYDRANT AND VALVE DETAIL
N.T.S.



FIRE PROTECTION RISER DIAGRAM
NO SCALE

REVISION	APPROVAL DATE
4	10/25



THE RESERVES AT COBALT CIRCLE
BROWNSVILLE, TN.
DEVELOPER:
ENGINEER: RENAISSANCE GROUP, INC.

DIVISION OF ENGINEERING
UTILITY DETAILS
LOCATION: 1616 EAST JEFFERSON STREET
BROWNSVILLE, TN.
DATE: 10/24
BOOK: _____
DESIGN: JWW DATE: 01/25/05 CKB: JWW DATE: 01/25 SCALE: _____
DEPUTY CITY ENGINEER DATE CITY ENGINEER DATE

LEGEND

- TEMPORARY TRAFFIC CONTROL SIGN
 SIGN DIMENSIONS → XX x XX

- TEMPORARY TRAFFIC CONTROL SIGN LOCATION

- MUTCD SIGN DESIGNATION

- TYPE III BARRICADE WITH TYPE A WARNING LIGHTS

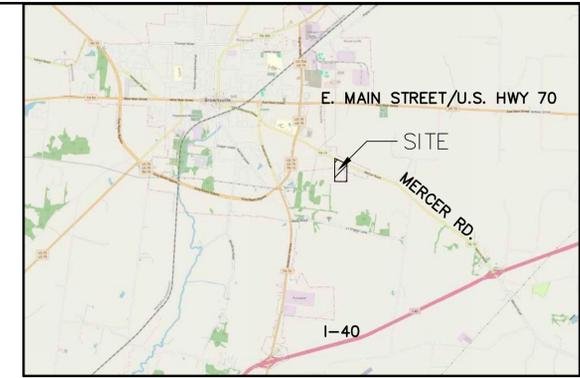
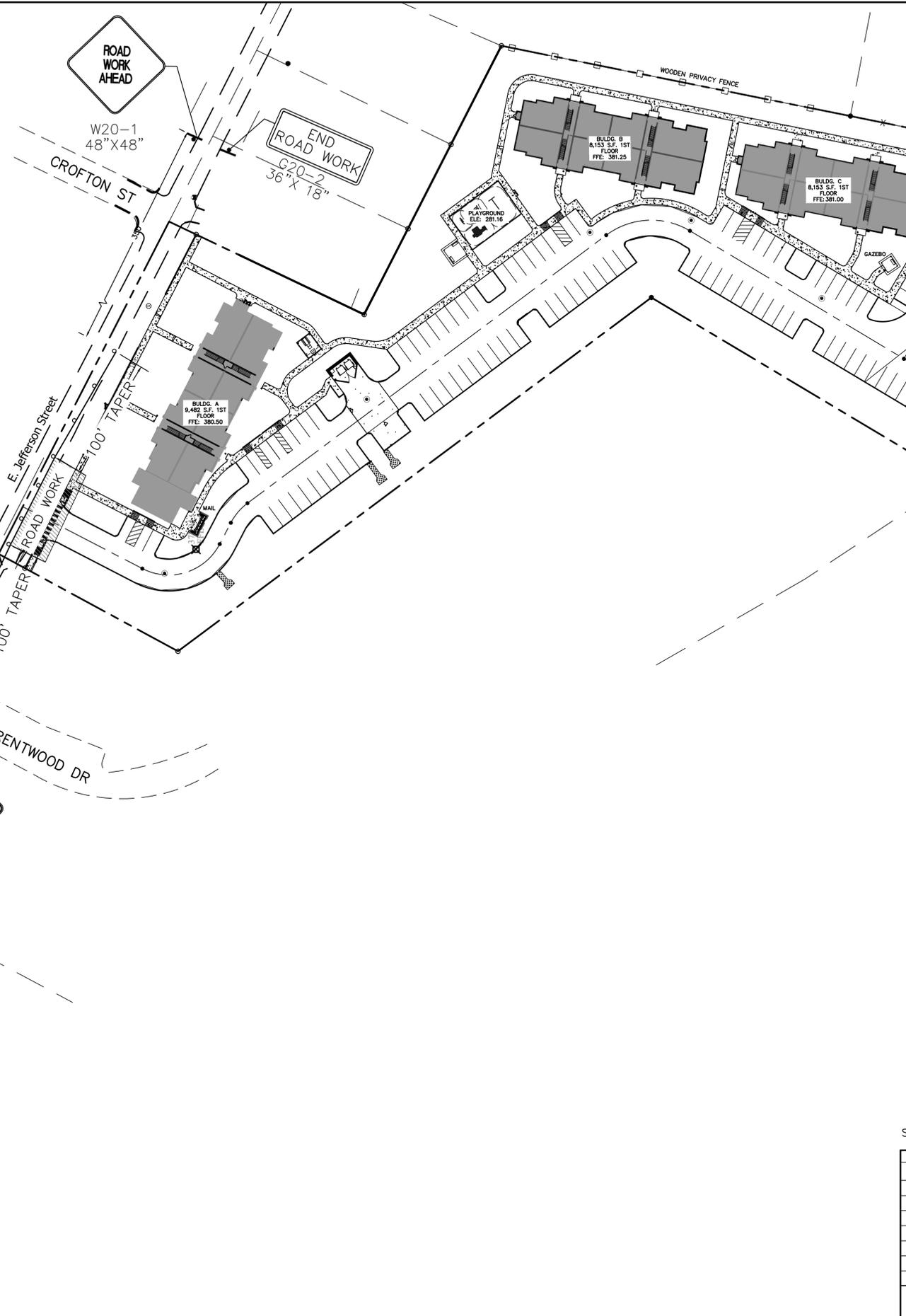


- FLEXIBLE ORANGE SAFETY DRUM WITH TYPE 'C' WARNING LIGHTS @ 20' O.C. AND REFLECTIVE STRIPING**

**4' TALL ORANGE FLEXIBLE TRAFFIC CONES MAY BE USED IN PLACE OF DRUMS, WITH REFLECTIVE STRIPING AND WARNING LIGHT IN PLACE



- FLEXIBLE DRUM



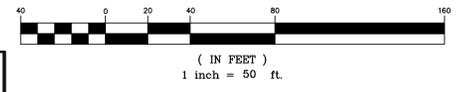
VICINITY

TRAFFIC CONTROL PLAN NOTES:

- SEE SECTION 6F.03, SIGN PLACEMENT, OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR INFORMATION ON PLACEMENT AND MOUNTING OF SIGNS.
- SIGNS SHOWN ON THIS PLAN ARE TO WARN TRAFFIC ABOUT THE CONSTRUCTION. OTHER TRAFFIC CONTROL DEVICES MAY BE REQUIRED DURING VARIOUS PHASES OF CONSTRUCTION.
- NOTHING IN THIS PLAN IS INTENDED TO SUPERSEDE OR RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF INSTALLING THE APPROPRIATE TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS".
- CONTRACTOR SHALL BE REQUIRED TO NOTIFY THE CITY OF BROWNSVILLE CONSTRUCTION INSPECTION DEPARTMENT AND TRAFFIC ENGINEERING DEPARTMENT A MINIMUM OF 24 HOURS PRIOR TO COMMENCING CONSTRUCTION OR IMPLEMENTING A TRAFFIC CONTROL PLAN. ALL TRAFFIC CONTROL DEVICES MUST BE IN PLACE BEFORE CONSTRUCTION ACTIVITY BEGINS.
- SIZES OF ALL SIGNS SHALL COMPLY WITH MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- ALL TRAFFIC CONTROL DEVICES AND THEIR INSTALLATION SHALL MEET THE STANDARD PRESCRIBED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND SHALL COMPLY WITH THE STATE OF TENNESSEE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SECTION 712 TEMPORARY TRAFFIC CONTROL.
- ACCESS TO ADJACENT PROPERTIES SHALL BE MAINTAINED AT ALL TIMES.
- SIDE STREET, DRIVEWAY ACCESS, AND SAFE PEDESTRIAN WAYS SHALL BE MAINTAINED AT ALL TIMES.
- THE CONTRACTOR SHALL NOT BE PERMITTED TO PARK ANY VEHICLES OR CONSTRUCTION EQUIPMENT DURING PERIODS OF INACTIVITY, WITHIN THE RIGHT-OF-WAY OR WITHIN THIRTY (30) FEET OF THE EDGE OF PAVEMENT WHICHEVER IS LESS, WHEN THE LANE IS OPEN TO TRAFFIC, UNLESS PROTECTED BY GUARDRAIL, BRIDGERAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES, PRIVATELY OWNED VEHICLES SHALL NOT BE ALLOWED TO BE PARKED WITHIN THE RIGHT-OF-WAY OR WITHIN THIRTY (30) FEET OF AN OPEN TRAFFIC LANE WHICHEVER IS LESS, AT ANY TIME UNLESS PROTECTED AS DESCRIBED ABOVE.
- CONTRACTOR SHALL COVER ALL EXISTING SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL PLAN SIGNS OR DEVICES DURING CONSTRUCTION AND THEY SHALL REMAIN COVERED DURING CONSTRUCTION AND UNTIL SUCH TIME THAT NO CONFLICT EXISTS.
- ALL TEMPORARY OR PERMANENT TRAVELED SURFACE SHALL BE INSPECTED DAILY BY THE CONTRACTOR (INCLUDING WEEKENDS) AND NECESSARY PATCHING OR RE-FINISHING PERFORMED.
- CONTRACTOR SHALL CONTACT THE CITY OF MEMPHIS SIGNAL SHOP AT 528-2844 FOR LOCATION OF SIGNAL CONDUIT AND WIRES.
- ALL TRAFFIC CONTROL SIGNS SHALL MEET THE MINIMUM RETRO-REFLECTIVITY LEVELS SPECIFIED IN THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- WORK WITHIN THE ROADWAY SHALL BE CONDUCTED BETWEEN 9:00 A.M. AND 4:00 P.M. AND THE ROADWAY SHALL BE COMPLETELY OPEN TO TRAFFIC AT ALL OTHER TIMES AND ALL INAPPROPRIATE SIGNS SHALL BE COVERED OR REMOVED.
- IF CONSTRUCTION ACTIVITIES REQUIRE OVER-NIGHT CLOSURE OF ANY PORTION OF THE ROADWAY, A REVISED TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO AND APPROVED BY THE CITY ENGINEER'S OFFICE.
- ANY CLOSURE OF THE RIGHT OF WAY SHALL BE TIME LIMITED TO THE ACTIVE DEMOLITION OR CONSTRUCTION. CONTINUOUS UNWARRANTED CLOSURE OF THE RIGHT OF WAY SHALL NOT BE ALLOWED FOR THE DURATION OF THE PROJECT. THE DEVELOPER SHALL PROVIDE ON THE TRAFFIC CONTROL PLAN, THE TIME NEEDED PER PHASE TO COMPLETE THAT PORTION OF THE WORK. TIME LIMITS WILL BEGIN ON THE DAY OF CLOSURE AND WILL BE MONITORED BY THE ENGINEERING CONSTRUCTION INSPECTORS ON THE JOB.
- EXISTING STRIPING THAT CONFLICTS WITH THE TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE COVERED OR REMOVED DURING CONSTRUCTION. WHEN CONSTRUCTION IS COMPLETE, THE EXISTING STRIPING SHALL BE RETURNED TO ITS ORIGINAL STATE.
- TWO WAY TRAFFIC SHALL BE MAINTAINED ON PARK AVENUE AT ALL TIMES.
- CONTRACTOR SHALL USE PLASTIC DRUMS WITH TYPE 'C' WARNING LIGHTS TO SEPARATE TRAFFIC FROM THE CONSTRUCTION AREA.
- THE CONTRACTOR SHALL NOTIFY MEMPHIS AREA TRANSIT AUTHORITY (901)722-7100 A MINIMUM OF 48 HOURS PRIOR TO IMPLEMENTING A TRAFFIC CONTROL PLAN.
- THE DEVELOPER SHALL PROVIDE A TRAFFIC CONTROL PLAN TO THE CITY ENGINEER THAT SHOWS THE PHASING FOR EACH STREET FRONTAGE DURING DEMOLITION OR CONSTRUCTION OF CURB, GUTTER AND SIDEWALK. IF A TEMPORARY SIDEWALK IS PROVIDED, IT SHALL BE ADA ACCESSIBLE AND A MINIMUM 5FEET WIDE PEDESTRIAN PATHWAY.
- THE CONTRACTOR SHALL CONTACT THE CITY OF MEMPHIS TRAFFIC ENGINEERING DEPARTMENT AT 901-636-6710 AT LEAST ONE WEEK PRIOR TO IMPLEMENTING THE TRAFFIC CONTROL PLAN TO DETERMINE FEES ASSOCIATED WITH ANY ENGINEERING PERMITS REQUIRED(I.E. DUMPSTER PERMITS, PARKING METER PERMITS, ETC.).
- THE APPROPRIATE TRAFFIC CONTROL SHALL BE INSTALLED AT THE INCEPTION OF EACH STAGE OF CONSTRUCTION AND SHALL BE PROPERLY MAINTAINED AND/OR OPERATED DURING THE TIME SUCH SPECIAL CONDITIONS EXIST. THEY SHALL REMAIN IN PLACE ONLY AS LONG AS THEY ARE NEEDED AND SHALL BE IMMEDIATELY REMOVED THEREAFTER.

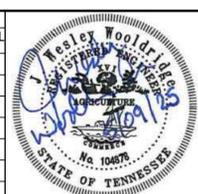


GRAPHIC SCALE



SPEED LIMIT: 35 M.P.H.

REVISION		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE

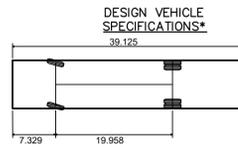


THE RESERVES AT COBALT CIRCLE
BROWNSVILLE, TN.
 DEVELOPER:
 ENGINEER: RENAISSANCE GROUP, INC.

SHEET 01 OF 01

DIVISION OF ENGINEERING
TRAFFIC CONTROL PLAN
 LOCATION: 1616 EAST JEFFERSON STREET
 BROWNSVILLE, TN.

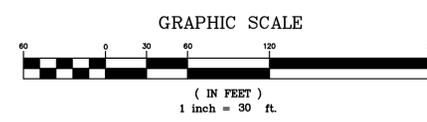
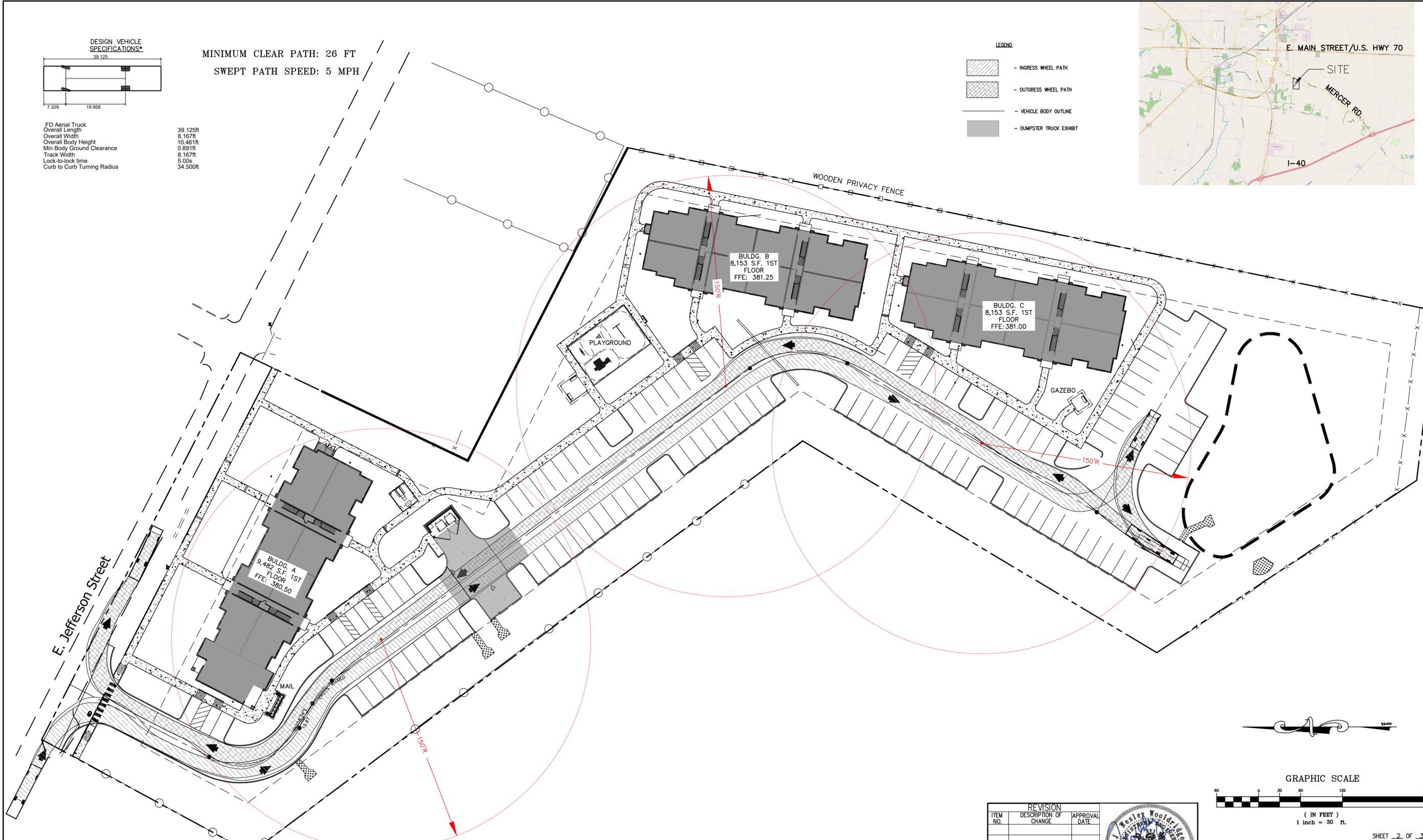
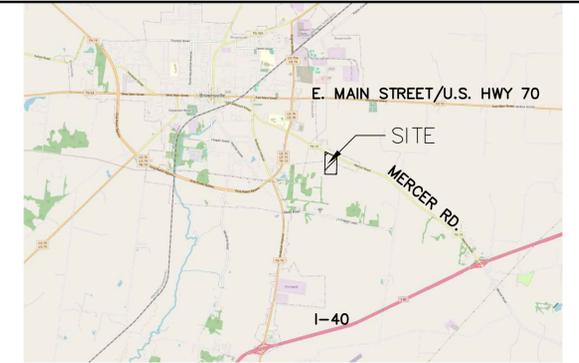
SURVEY: SEAS DATE: 10/24 BOOK: _____
 DESIGN: _____ DATE: 01/25 CKD: _____ DATE: 01/25 SCALE: 1"=40'
 DEPUTY CITY ENGINEER _____ DATE _____ CITY ENGINEER _____ DATE _____



FD Aerial Truck
 Overall Length 39.125ft
 Overall Width 7.329ft
 Overall Body Height 19.958ft
 Min Body Ground Clearance 0.891ft
 Track Width 8.167ft
 Lock-to-lock time 5.00s
 Curb to Curb Turning Radius 34.500ft

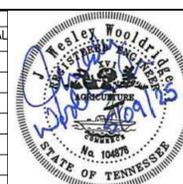
MINIMUM CLEAR PATH: 26 FT
 SWEEP PATH SPEED: 5 MPH

- LEGEND:
- INGRESS WHEEL PATH
 - OUTGRESS WHEEL PATH
 - VEHICLE BODY OUTLINE
 - DUMPSTER TRUCK EXHIBIT



SHEET 2 OF 3

REVISION		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE



THE RESERVES AT COBALT CIRCLE
 BROWNSVILLE, TN.
 DEVELOPER:
 ENGINEER: RENAISSANCE GROUP, INC.

DIVISION OF ENGINEERING
FIRE TRUCK EXHIBIT
 LOCATION: 1616 EAST JEFFERSON STREET
 BROWNSVILLE, TN.
 SURVEY: SEAS DATE: 10/24 BOOK: _____
 DESIGN: _____ DATE: 01/25 CKD: _____ DATE: 01/25 SCALE: _____
 DEPUTY CITY ENGINEER _____ DATE _____ CITY ENGINEER _____ DATE _____