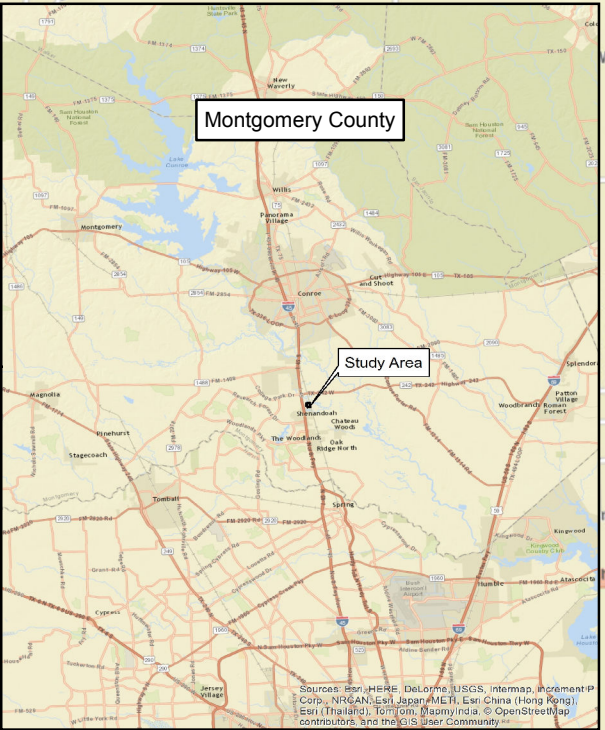
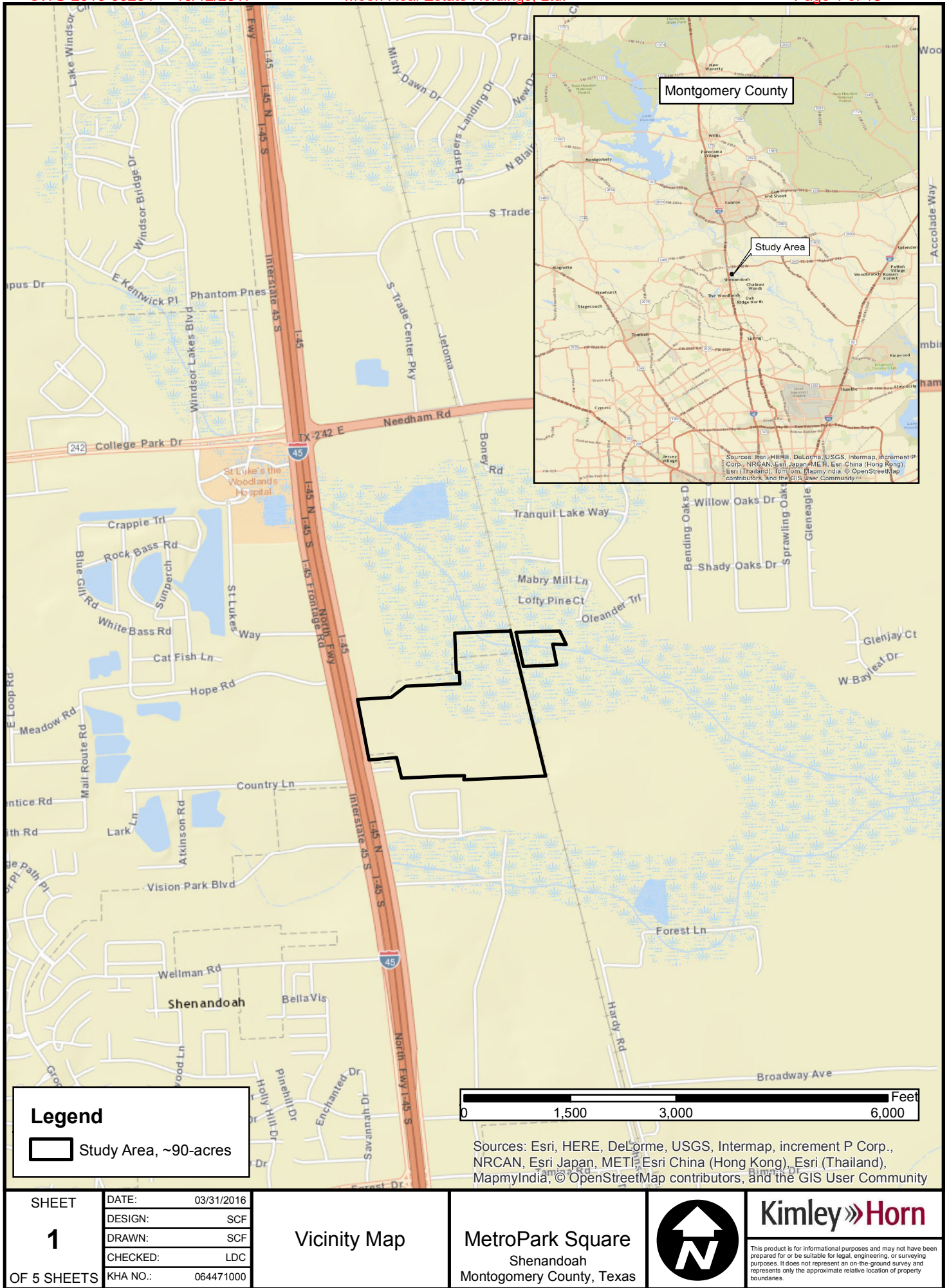
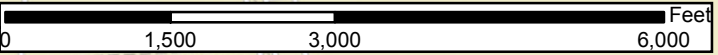




Legend

Study Area, ~90-acres



Sources: Esri, HERE, DeLorme, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

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	DESIGN:	SCF
	DRAWN:	SCF
	CHECKED:	LDC
	KHA NO.:	064471000

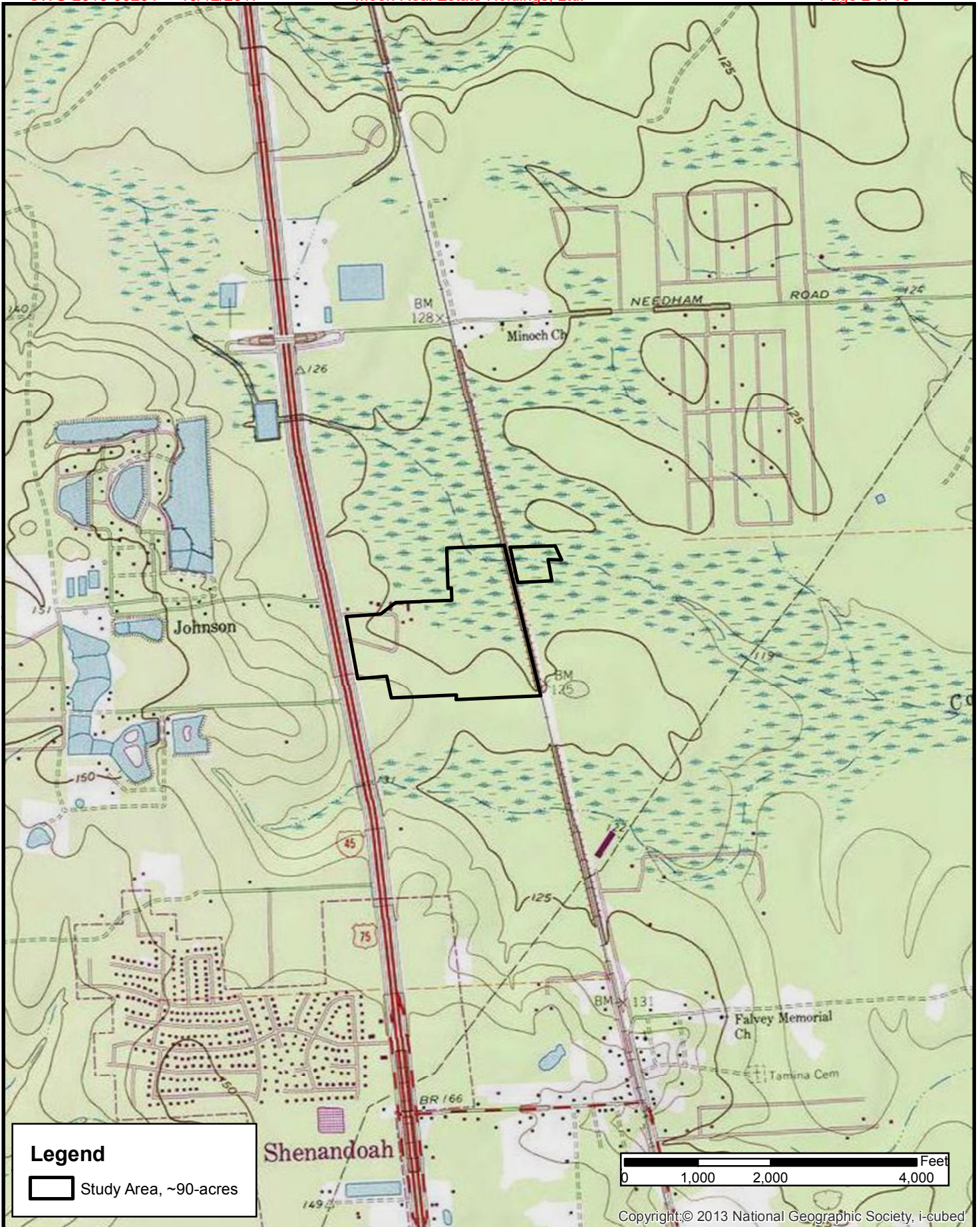
Vicinity Map

MetroPark Square
Shenandoah
Montgomery County, Texas



Kimley»Horn

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Legend

 Study Area, ~90-acres

SHEET 2 OF 5 SHEETS	DATE:	03/31/2016
	DESIGN:	SCF
	DRAWN:	SCF
	CHECKED:	LDC
	KHA NO.:	064471000

USGS Topographic Map

Quad Name: Tamina

MetroPark Square

Shenandoah

Montgomery County, Texas



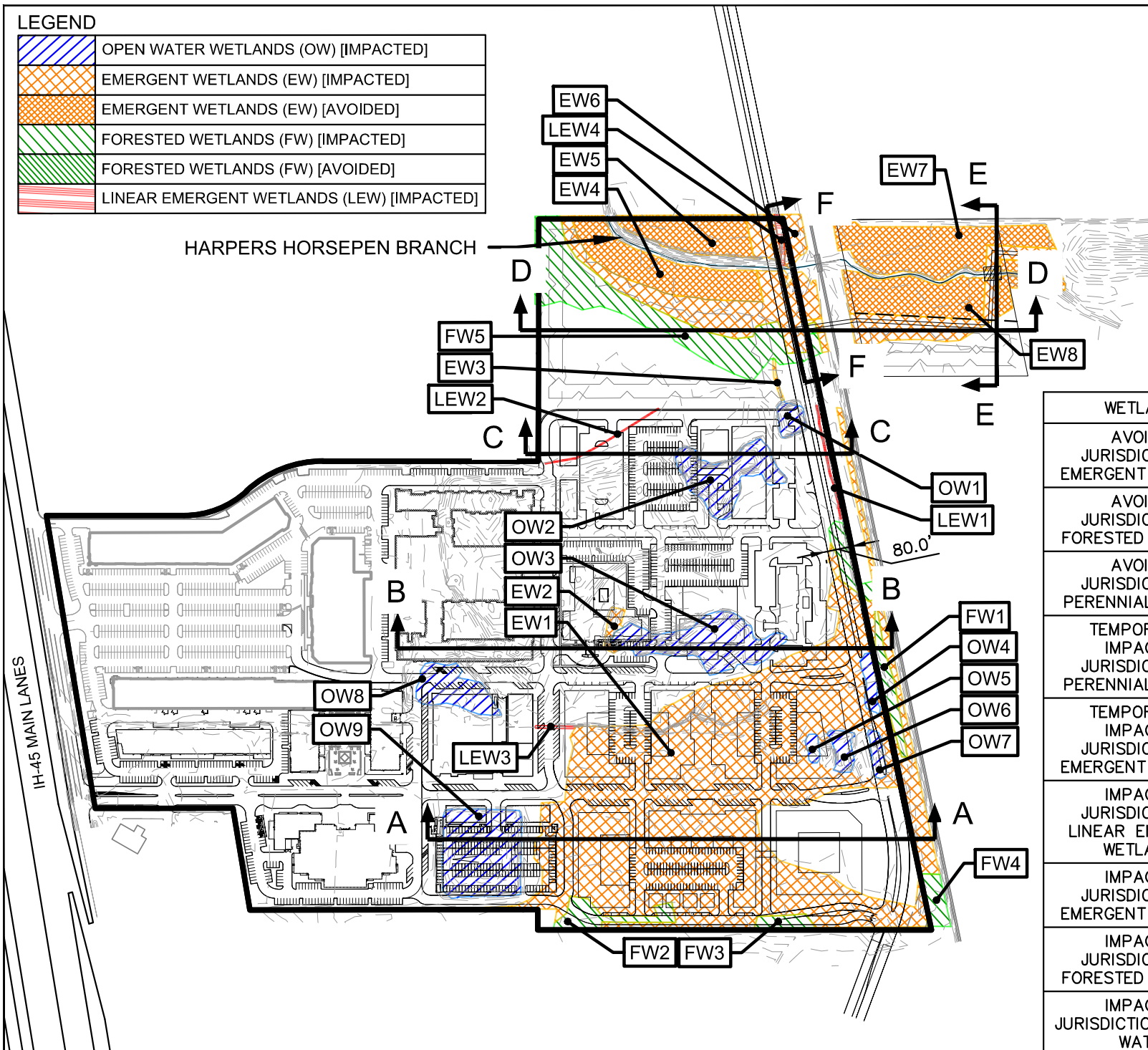
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This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. It does not represent an on-the-ground survey and represents only the approximate relative location of property boundaries.

LEGEND

	OPEN WATER WETLANDS (OW) [IMPACTED]
	EMERGENT WETLANDS (EW) [IMPACTED]
	EMERGENT WETLANDS (EW) [AVOIDED]
	FORESTED WETLANDS (FW) [IMPACTED]
	FORESTED WETLANDS (FW) [AVOIDED]
	LINEAR EMERGENT WETLANDS (LEW) [IMPACTED]

HARPERS HORSEPEN BRANCH



WETLAND STATISTICS	
AVOIDED JURISDICTIONAL EMERGENT WETLAND	5.17 AC
AVOIDED JURISDICTIONAL FORESTED WETLAND	0.27 AC
AVOIDED JURISDICTIONAL PERENNIAL STREAM	1,270 LF 0.73 AC
TEMPORARILY IMPACTED JURISDICTIONAL PERENNIAL STREAM	50 LF 0.03 AC
TEMPORARILY IMPACTED JURISDICTIONAL EMERGENT WETLAND	0.33 AC
IMPACTED JURISDICTIONAL LINEAR EMERGENT WETLANDS	0.13 AC
IMPACTED JURISDICTIONAL EMERGENT WETLAND	16.85 AC
IMPACTED JURISDICTIONAL FORESTED WETLAND	2.88 AC
IMPACTED JURISDICTIONAL OPEN WATER	4.30 AC

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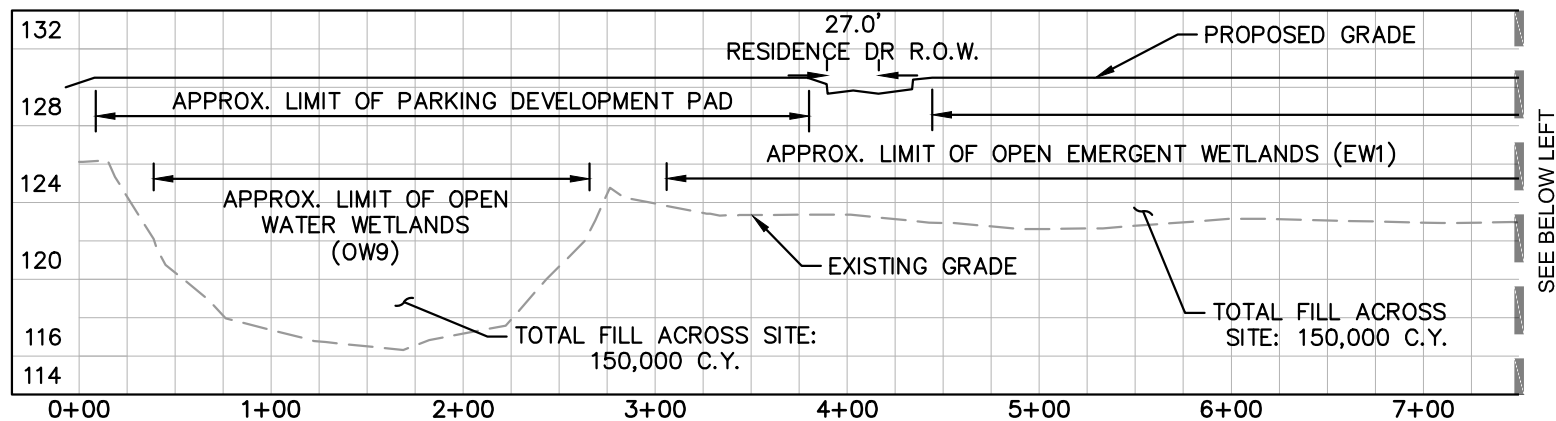
WETLAND CROSS
SECTION EXHIBIT

METROPARK SQUARE
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MOON REAL ESTATE
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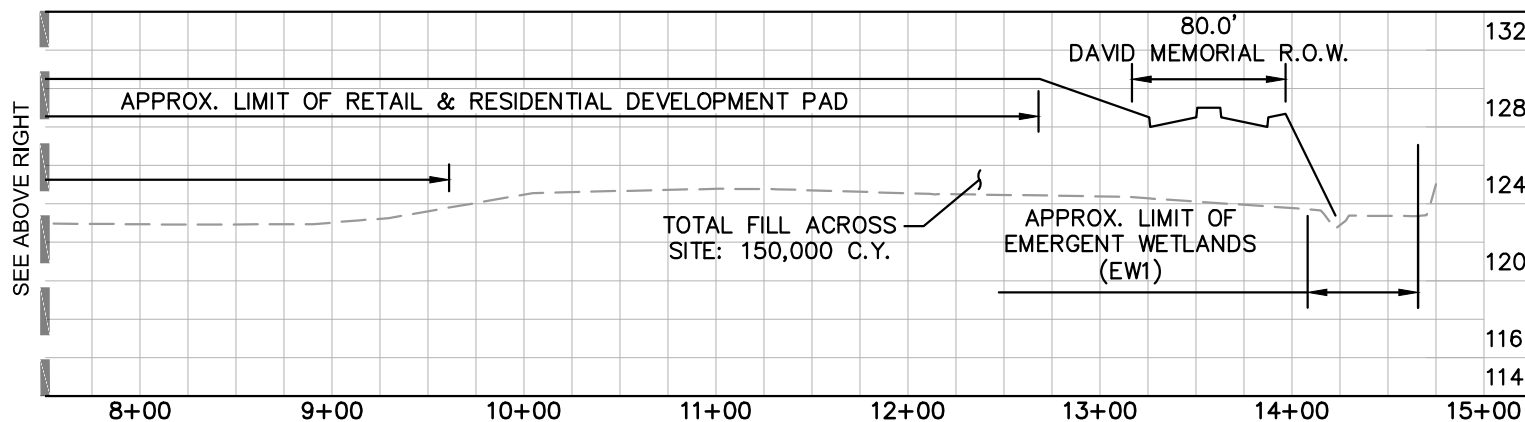
TEXAS

SHENANDOAH

SHEET
1



SECTION A-A
SCALE 1"=100' H; 1"=10' V



SECTION A-A
SCALE 1"=100' H; 1"=10' V

NOTE:
ALL WETLANDS ARE IMPACTED UNLESS
OTHERWISE SHOWN ON PLAN OR SECTION

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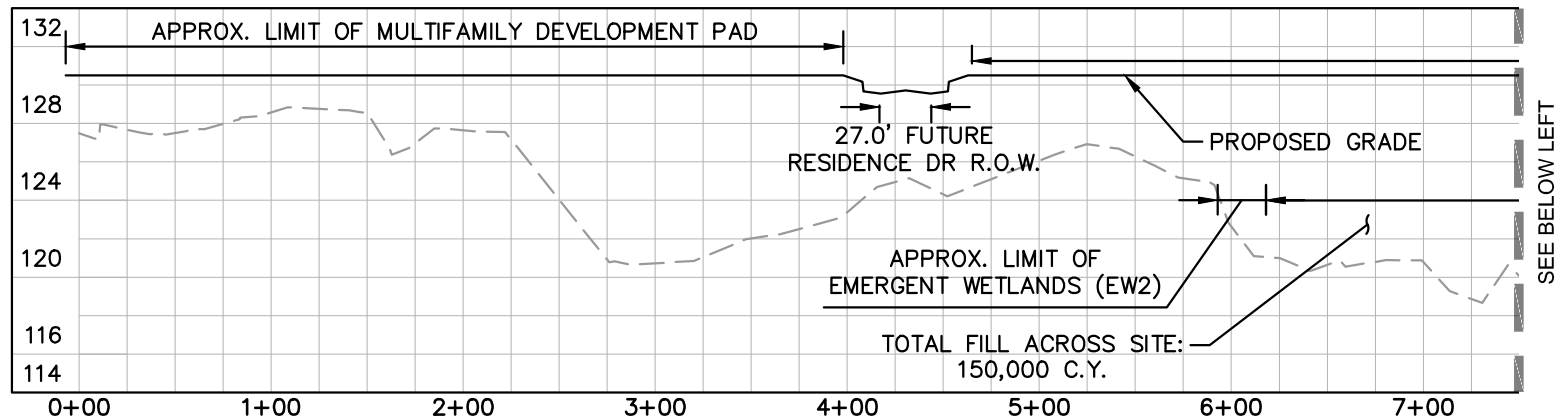
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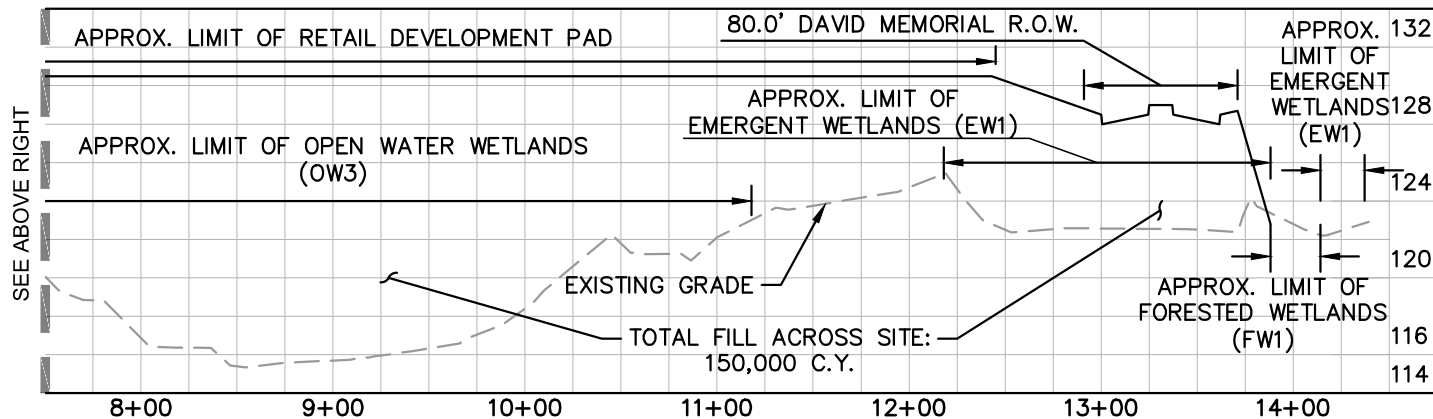
TEXAS

SHENANDOAH

SHEET
2



SECTION B-B
SCALE 1"=100' H; 1"=10' V



SECTION B-B
SCALE 1"=100' H; 1"=10' V

NOTE:
ALL WETLANDS ARE IMPACTED UNLESS
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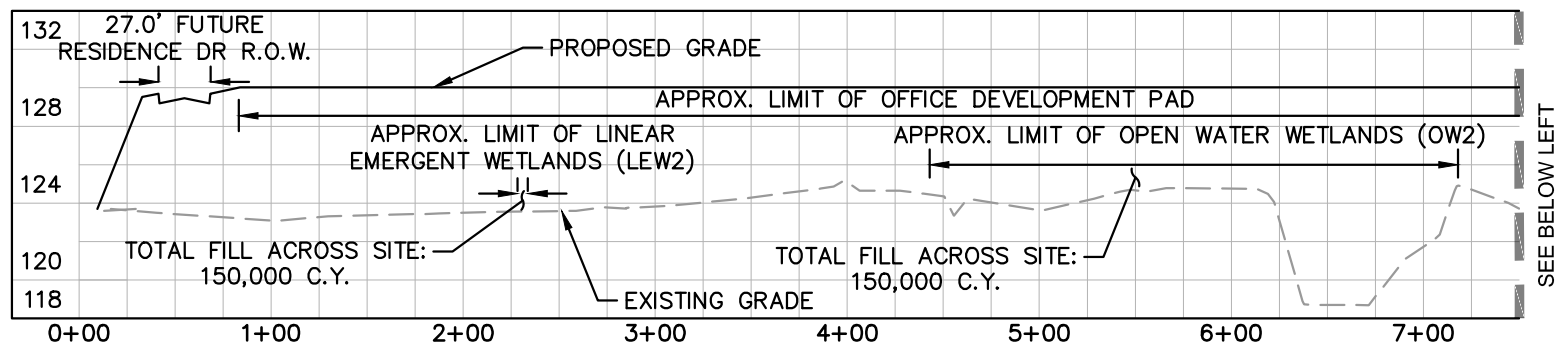
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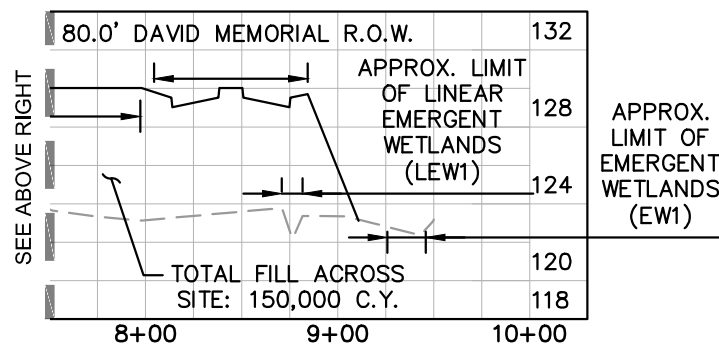
TEXAS

SHENANDOAH

SHEET
3



SECTION C-C
SCALE 1"=100' H; 1"=10' V



SECTION C-C
SCALE 1"=100' H; 1"=10' V

NOTE:
ALL WETLANDS ARE IMPACTED UNLESS
OTHERWISE SHOWN ON PLAN OR SECTION

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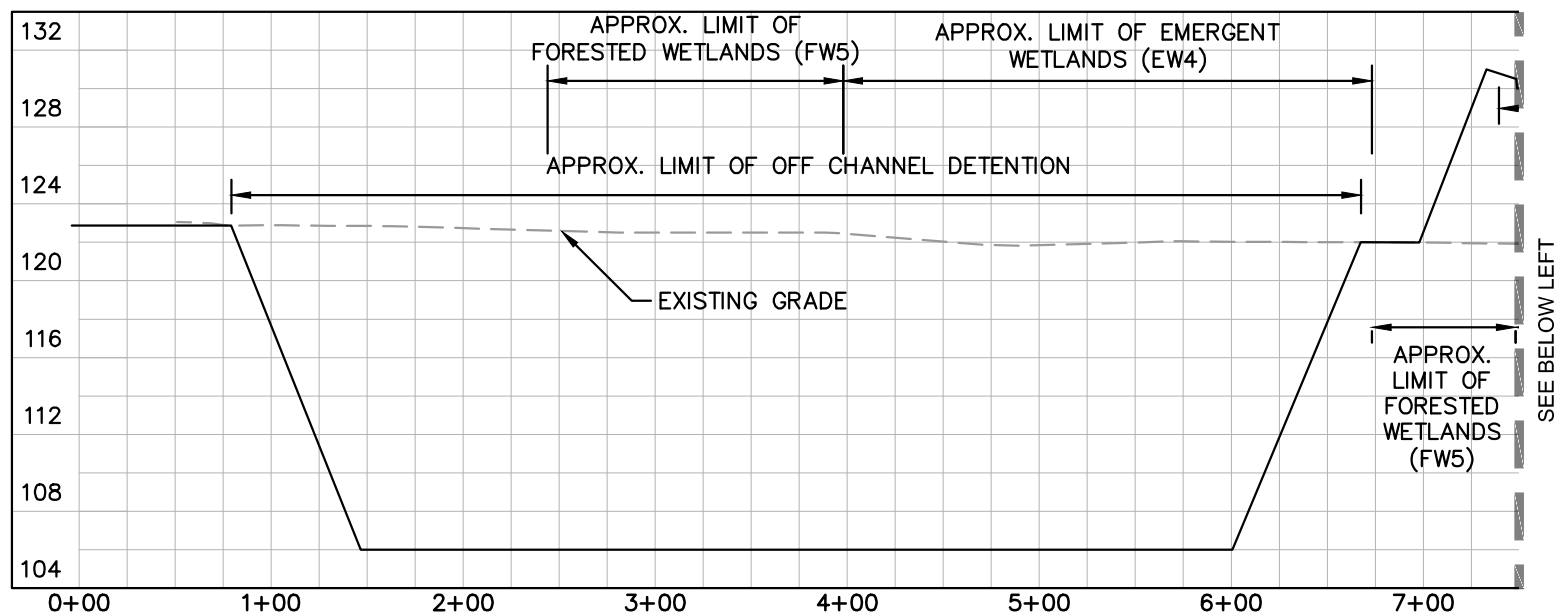
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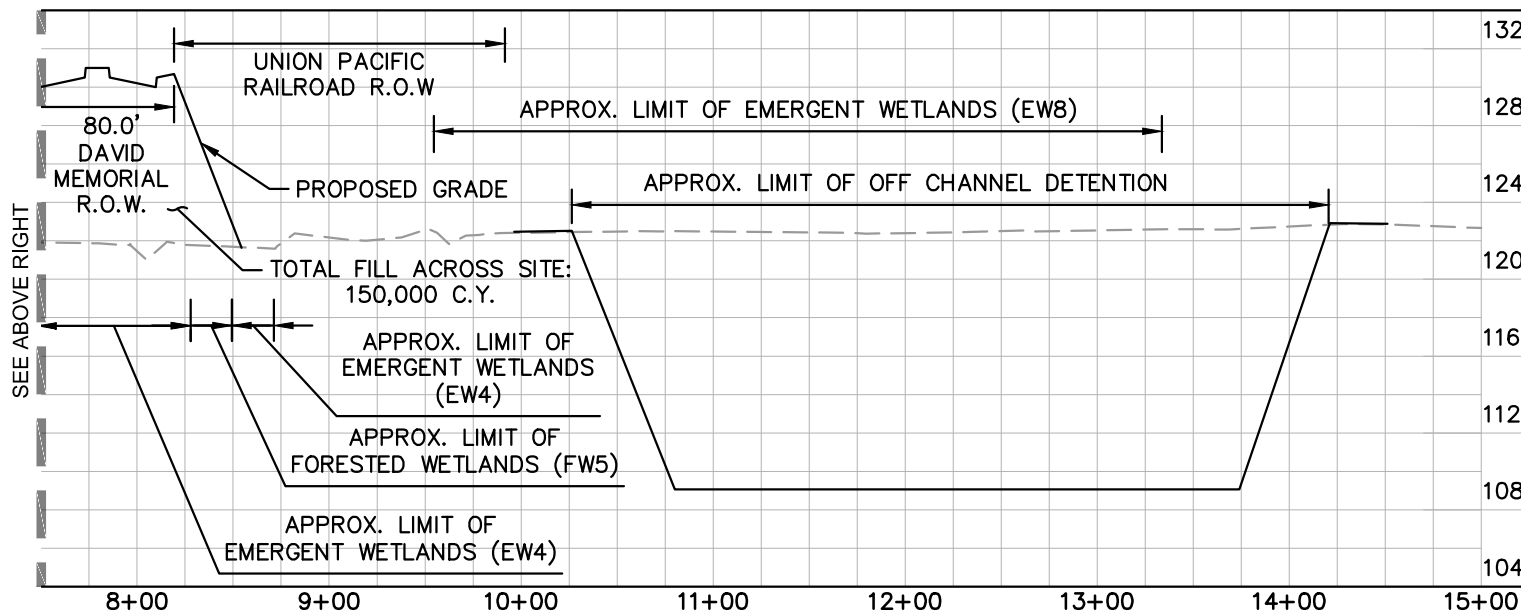
TEXAS

SHENANDOAH

SHEET
4



SECTION D-D
SCALE 1"=100' H; 1"=10' V



SECTION D-D
SCALE 1"=100' H; 1"=10' V

NOTE:
ALL WETLANDS ARE IMPACTED UNLESS
OTHERWISE SHOWN ON PLAN OR SECTION

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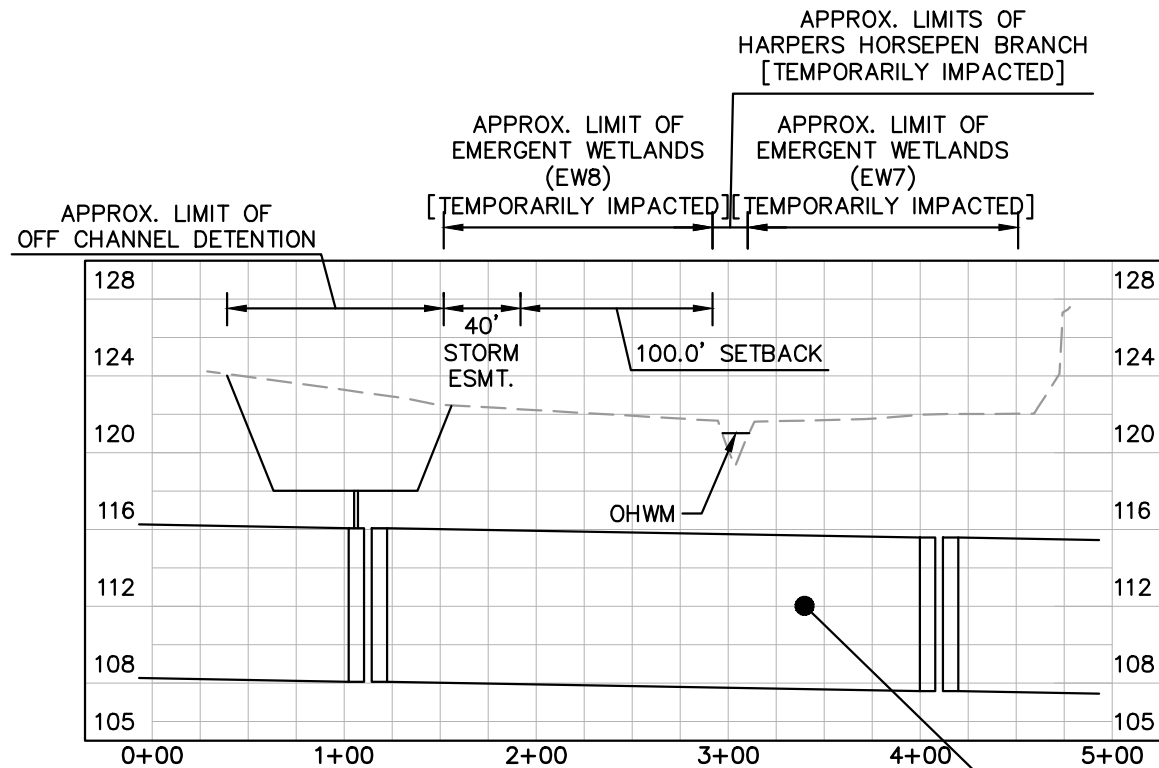
WETLAND CROSS
SECTION EXHIBIT

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TEXAS

SHENANDOAH

SHEET
5



SECTION E-E
SCALE 1"=100' H; 1"=10' V

BOX CULVERT TO BE INSTALLED THROUGH HARPERS HORSEPEN BRANCH BY OPEN CUT TRENCH. (REF. PLAN VIEW FOR LIMITS OF TEMPORARY IMPACTS)

- IMPACTS TO HARPERS HORSEPEN BRANCH AND ALL EMERGENT WETLANDS FROM PIPE CONSTRUCTION ARE TEMPORARY.
- IMPACTED AREAS WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS AND CONDITIONS UPON COMPLETION OF CONSTRUCTION.

NOTE:
ALL WETLANDS ARE IMPACTED UNLESS OTHERWISE SHOWN ON PLAN OR SECTION

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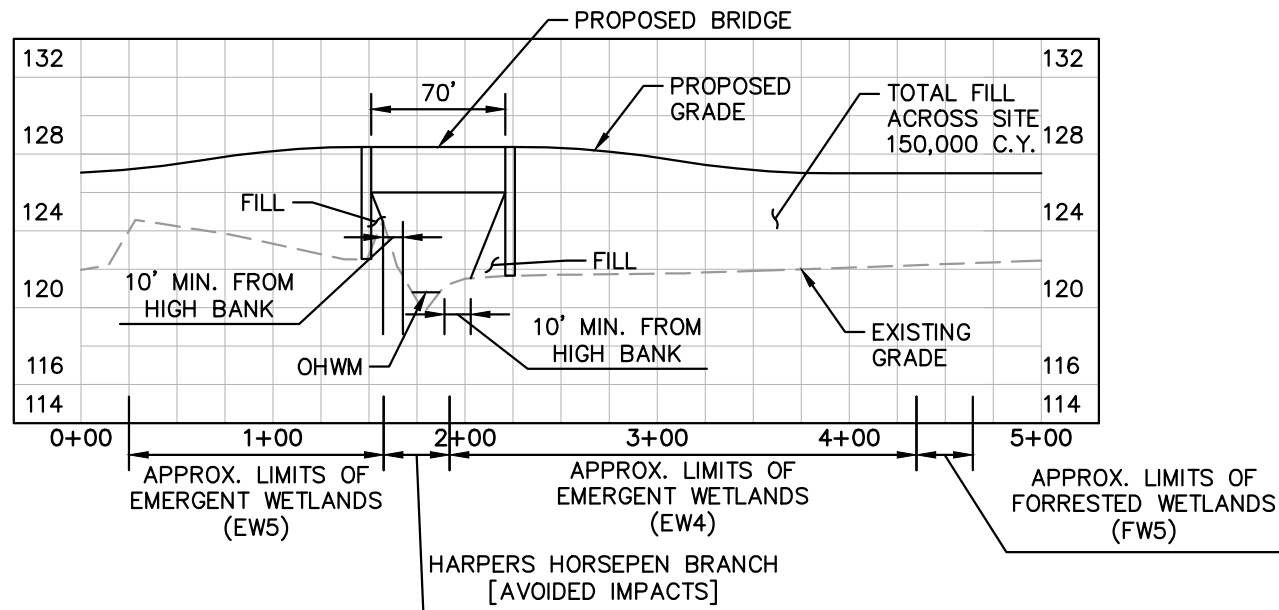
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WETLAND CROSS
SECTION EXHIBIT

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SHENANDOAH

TEXAS

SHEET
6



SECTION F-F
SCALE 1"=100' H; 1"=10' V

NOTE:
ALL WETLANDS ARE IMPACTED UNLESS
OTHERWISE SHOWN ON PLAN OR SECTION

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TEXAS

SHENANDOAH

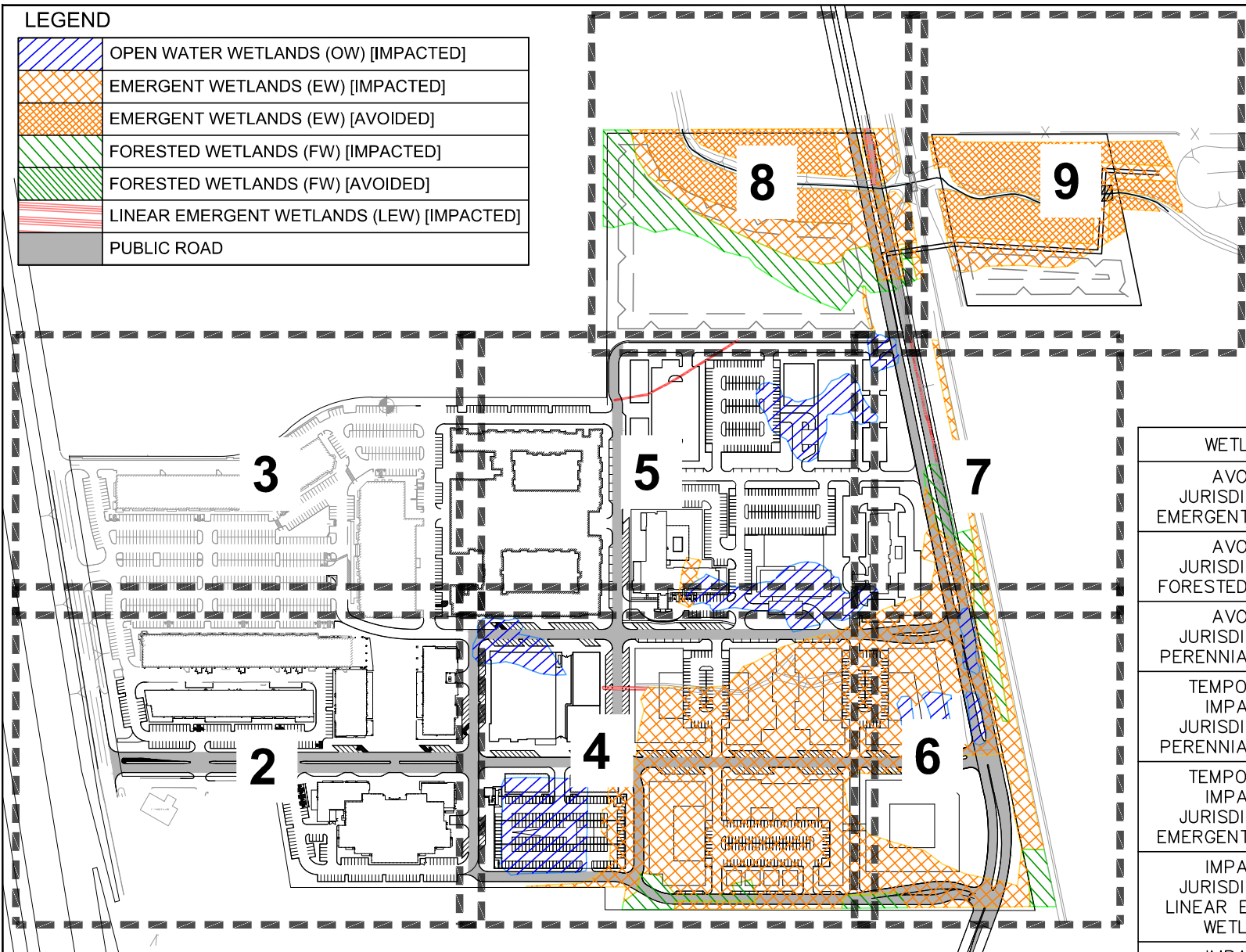
SHEET
7

LEGEND

	OPEN WATER WETLANDS (OW) [IMPACTED]
	EMERGENT WETLANDS (EW) [IMPACTED]
	EMERGENT WETLANDS (EW) [AVOIDED]
	FORESTED WETLANDS (FW) [IMPACTED]
	FORESTED WETLANDS (FW) [AVOIDED]
	LINEAR EMERGENT WETLANDS (LEW) [IMPACTED]
	PUBLIC ROAD



SCALE: 1" = 400'



WETLAND STATISTICS	
AVOIDED JURISDICTIONAL EMERGENT WETLAND	5.17 AC
AVOIDED JURISDICTIONAL FORESTED WETLAND	0.27 AC
AVOIDED JURISDICTIONAL PERENNIAL STREAM	1,270 LF 0.73 AC
TEMPORARILY IMPACTED JURISDICTIONAL PERENNIAL STREAM	50 LF 0.03 AC
TEMPORARILY IMPACTED JURISDICTIONAL EMERGENT WETLAND	0.33 AC
IMPACTED JURISDICTIONAL LINEAR EMERGENT WETLANDS	0.13 AC
IMPACTED JURISDICTIONAL EMERGENT WETLAND	16.85 AC
IMPACTED JURISDICTIONAL FORESTED WETLAND	2.88 AC
IMPACTED JURISDICTIONAL OPEN WATER	4.30 AC

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PROJECT PLANS
OVERALL LAYOUT

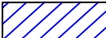
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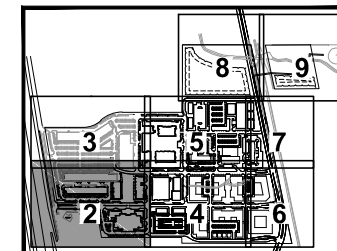
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SHENANDOAH

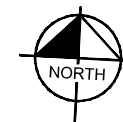
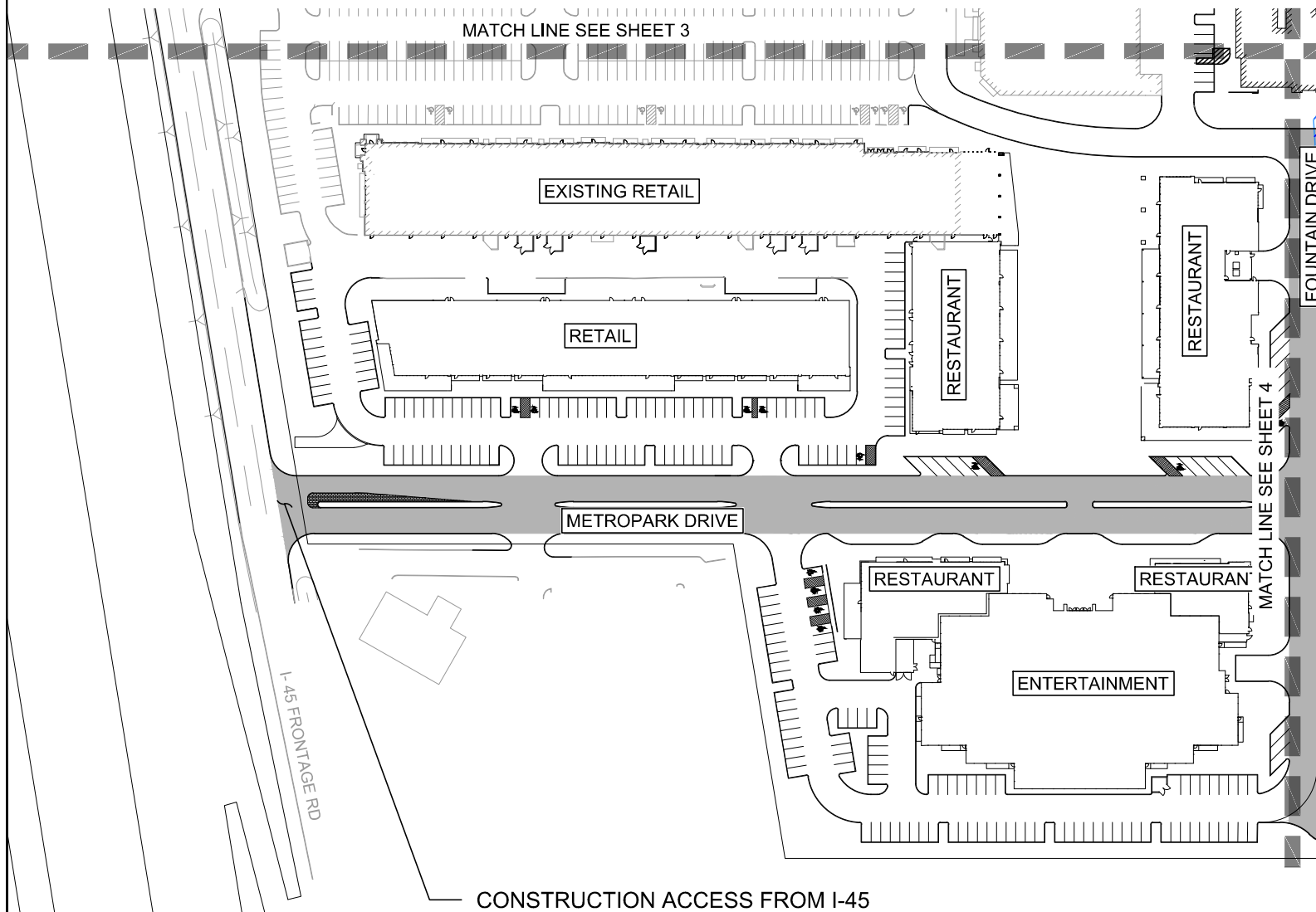
SHEET
1

LEGEND

	OPEN WATER WETLANDS (OW) [IMPACTED]
	EMERGENT WETLANDS (EW) [IMPACTED]
	EMERGENT WETLANDS (EW) [AVOIDED]
	FORESTED WETLANDS (FW) [IMPACTED]
	FORESTED WETLANDS (FW) [AVOIDED]
	LINEAR EMERGENT WETLANDS (LEW) [IMPACTED]
	PUBLIC ROAD



KEYMAP
1" = 2000'



SCALE: 1" = 150'

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WETLAND CROSS
SECTION EXHIBIT

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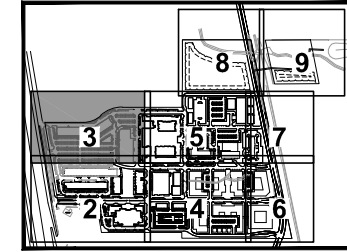
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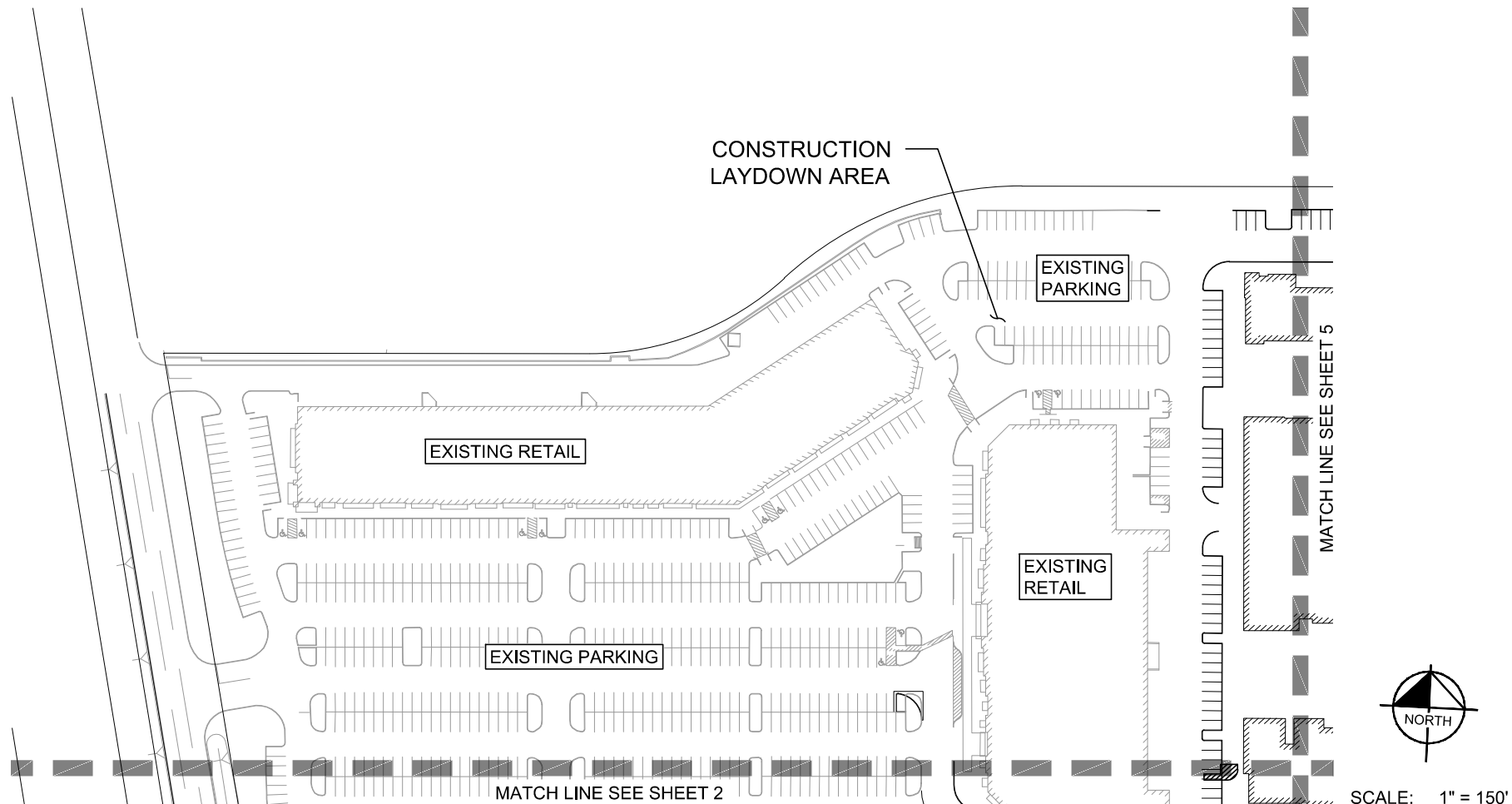
SHEET
2

LEGEND

	OPEN WATER WETLANDS (OW) [IMPACTED]
	EMERGENT WETLANDS (EW) [IMPACTED]
	EMERGENT WETLANDS (EW) [AVOIDED]
	FORESTED WETLANDS (FW) [IMPACTED]
	FORESTED WETLANDS (FW) [AVOIDED]
	LINEAR EMERGENT WETLANDS (LEW) [IMPACTED]
	PUBLIC ROAD



KEYMAP
1" = 2000'



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WETLAND CROSS
SECTION EXHIBIT

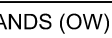
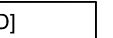
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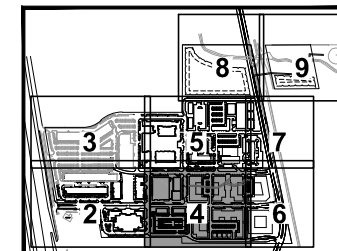
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SHENANDOAH

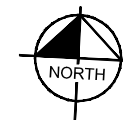
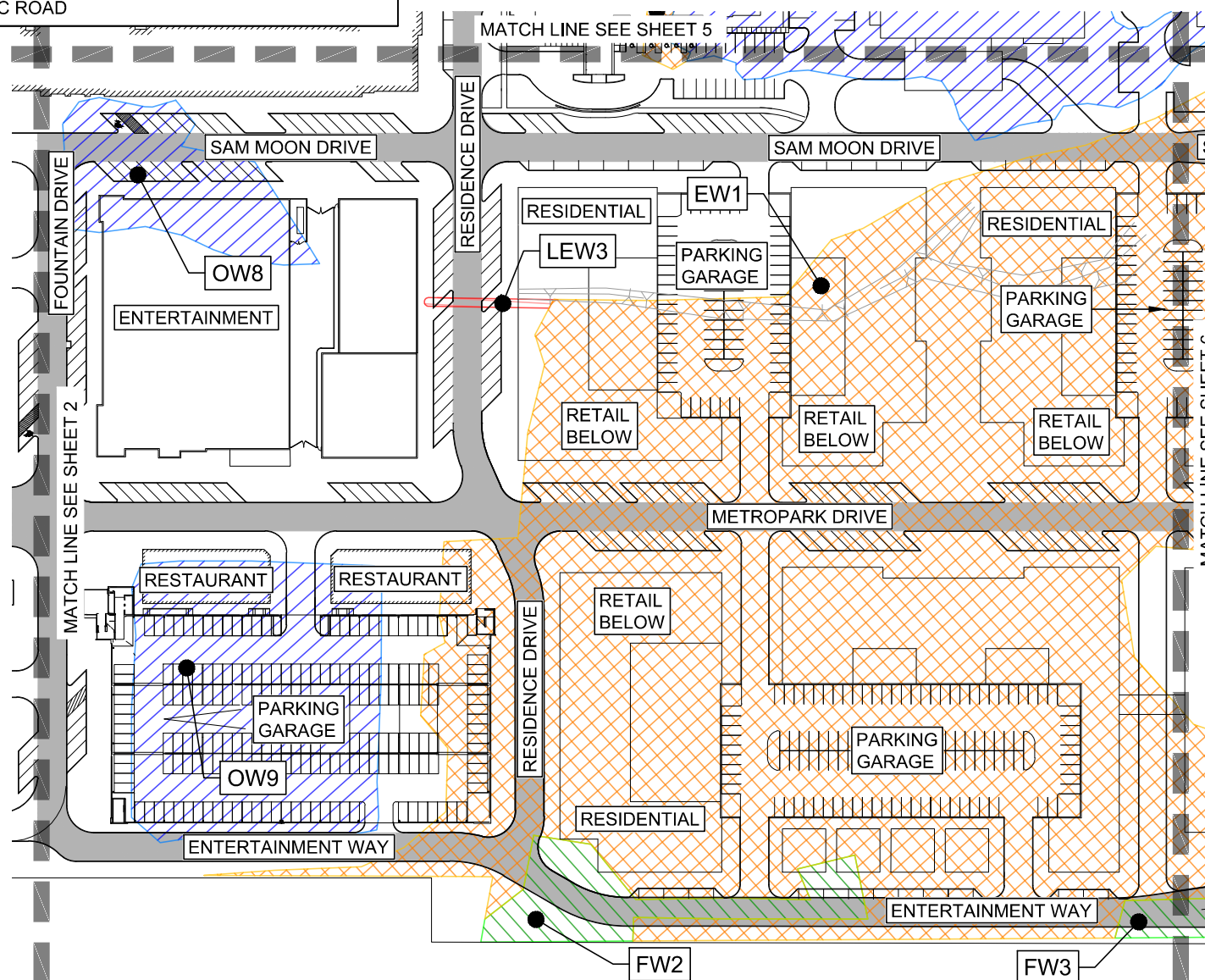
SHEET
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LEGEND

	OPEN WATER WETLANDS (OW) [IMPACTED]
	EMERGENT WETLANDS (EW) [IMPACTED]
	EMERGENT WETLANDS (EW) [AVOIDED]
	FORESTED WETLANDS (FW) [IMPACTED]
	FORESTED WETLANDS (FW) [AVOIDED]
	LINEAR EMERGENT WETLANDS (LEW) [IMPACTED]
	PUBLIC ROAD



KEYMAP
1" = 2000'



SCALE: 1" = 150'

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WETLAND CROSS
SECTION EXHIBIT

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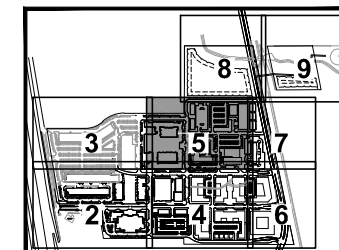
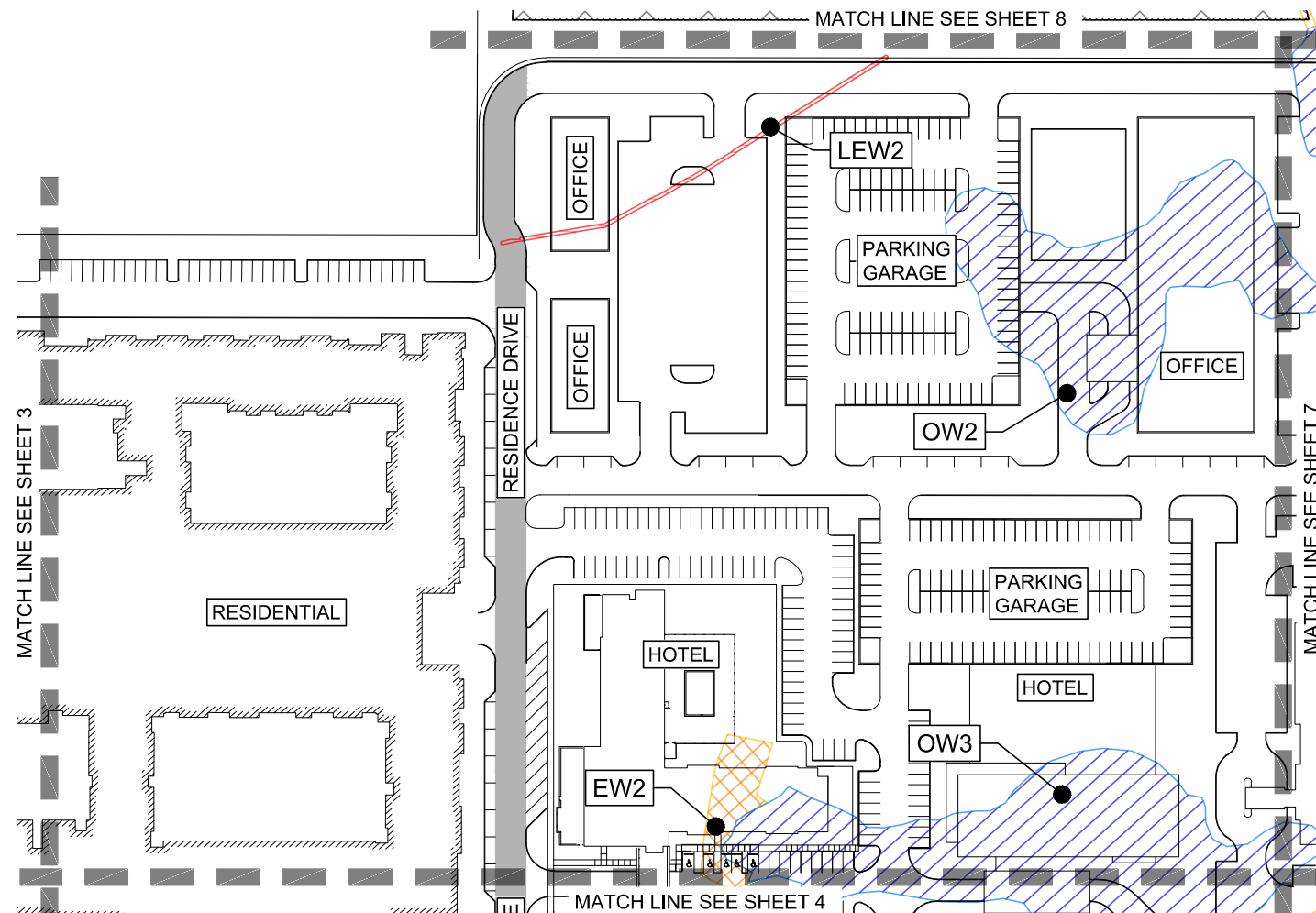
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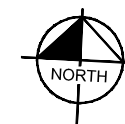
SHEET
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LEGEND

	OPEN WATER WETLANDS (OW) [IMPACTED]
	EMERGENT WETLANDS (EW) [IMPACTED]
	EMERGENT WETLANDS (EW) [AVOIDED]
	FORESTED WETLANDS (FW) [IMPACTED]
	FORESTED WETLANDS (FW) [AVOIDED]
	LINEAR EMERGENT WETLANDS (LEW) [IMPACTED]
	PUBLIC ROAD



KEYMAP
1" = 2000'



SCALE: 1" = 150'

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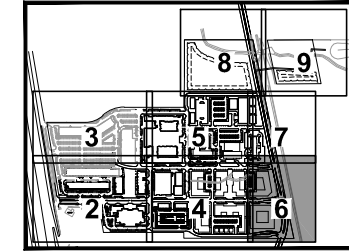
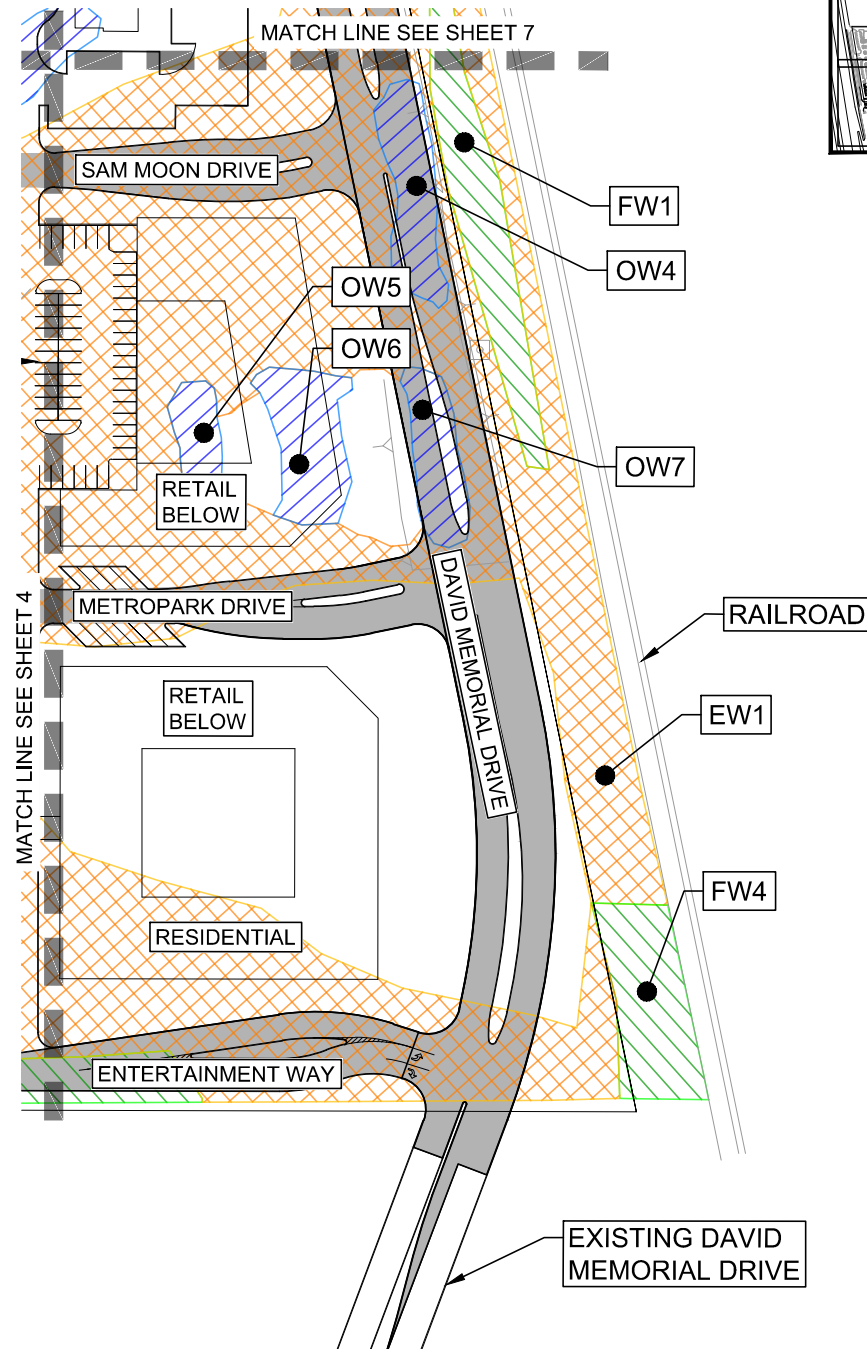
TEXAS

SHENANDOAH

SHEET
5

LEGEND

	OPEN WATER WETLANDS (OW) [IMPACTED]
	EMERGENT WETLANDS (EW) [IMPACTED]
	EMERGENT WETLANDS (EW) [AVOIDED]
	FORESTED WETLANDS (FW) [IMPACTED]
	FORESTED WETLANDS (FW) [AVOIDED]
	LINEAR EMERGENT WETLANDS (LEW) [IMPACTED]
	PUBLIC ROAD



KEYMAP
1" = 2000'



SCALE: 1" = 150'

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SECTION EXHIBIT

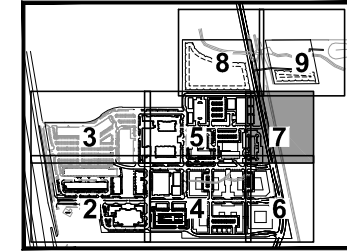
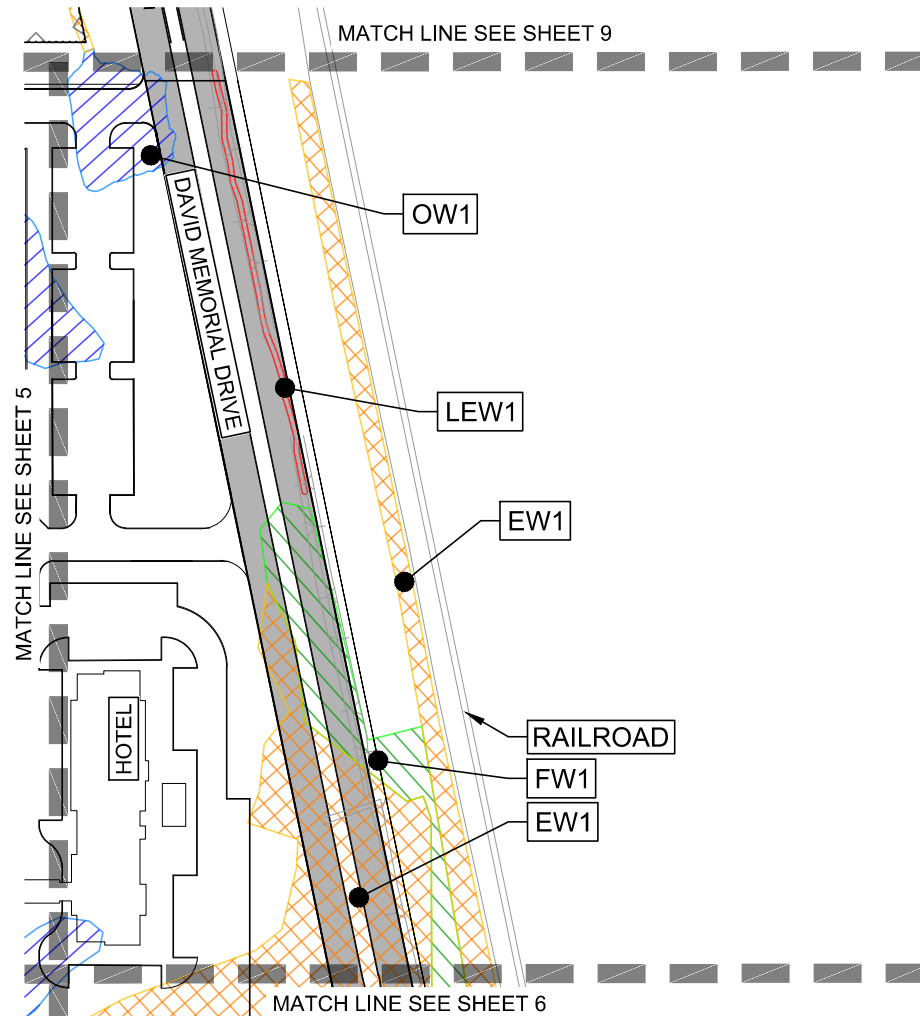
TEXAS

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SHENANDOAH

SHEET
6

LEGEND

	OPEN WATER WETLANDS (OW) [IMPACTED]
	EMERGENT WETLANDS (EW) [IMPACTED]
	EMERGENT WETLANDS (EW) [AVOIDED]
	FORESTED WETLANDS (FW) [IMPACTED]
	FORESTED WETLANDS (FW) [AVOIDED]
	LINEAR EMERGENT WETLANDS (LEW) [IMPACTED]
	PUBLIC ROAD



KEYMAP
1" = 2000'



SCALE: 1" = 150'

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WETLAND CROSS
SECTION EXHIBIT

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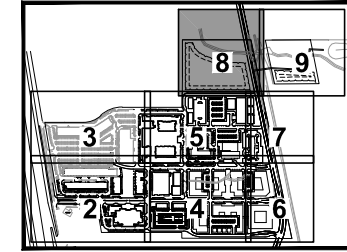
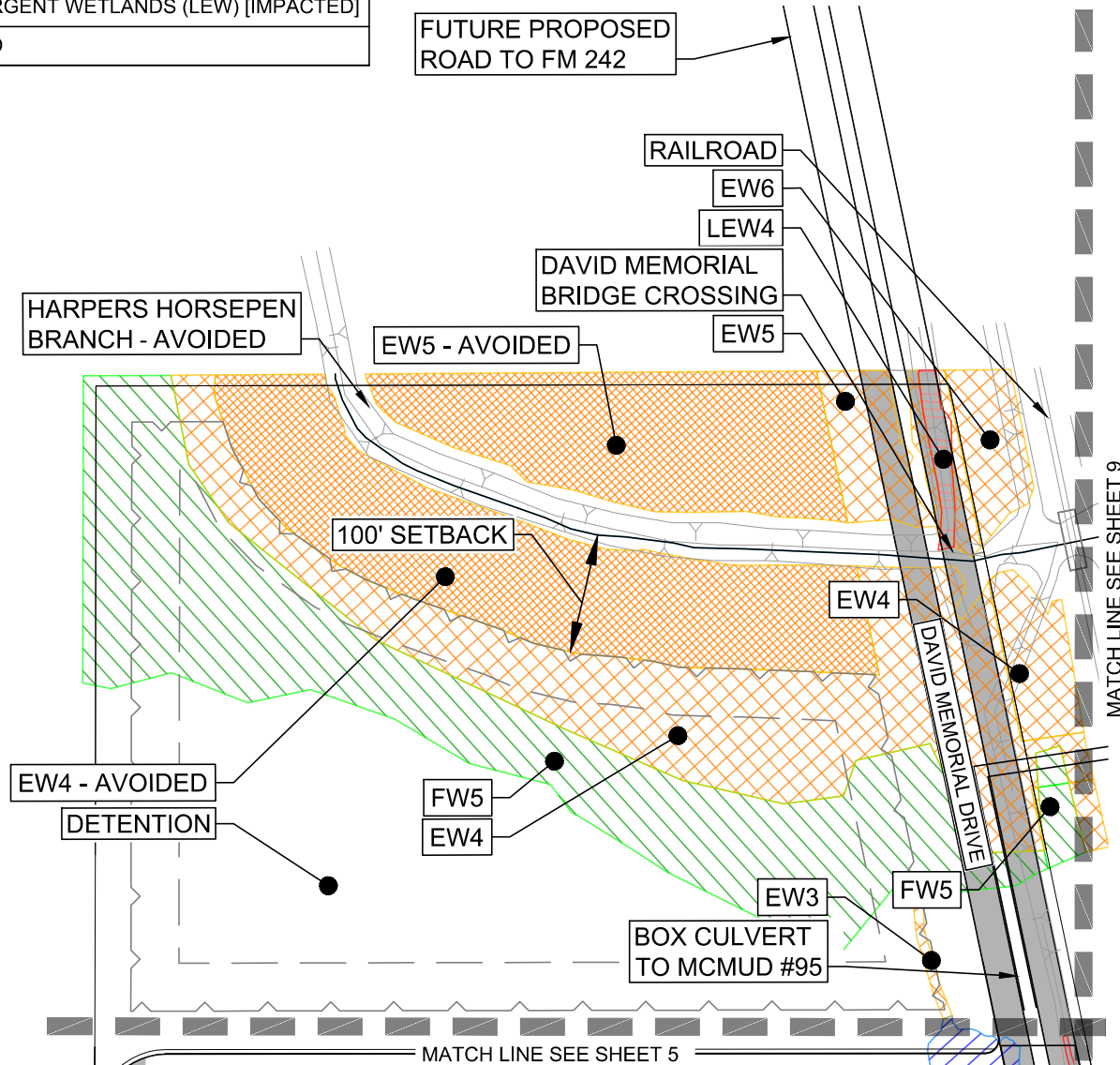
TEXAS

SHENANDOAH

SHEET
7

LEGEND

	OPEN WATER WETLANDS (OW) [IMPACTED]
	EMERGENT WETLANDS (EW) [IMPACTED]
	EMERGENT WETLANDS (EW) [AVOIDED]
	FORESTED WETLANDS (FW) [IMPACTED]
	FORESTED WETLANDS (FW) [AVOIDED]
	LINEAR EMERGENT WETLANDS (LEW) [IMPACTED]
	PUBLIC ROAD



KEYMAP
1" = 2000'



SCALE: 1" = 150'

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WETLAND CROSS
SECTION EXHIBIT

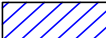
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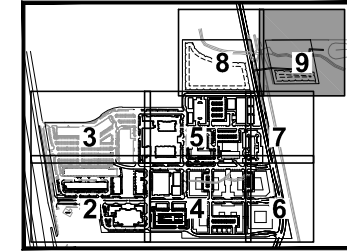
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SHEET
8

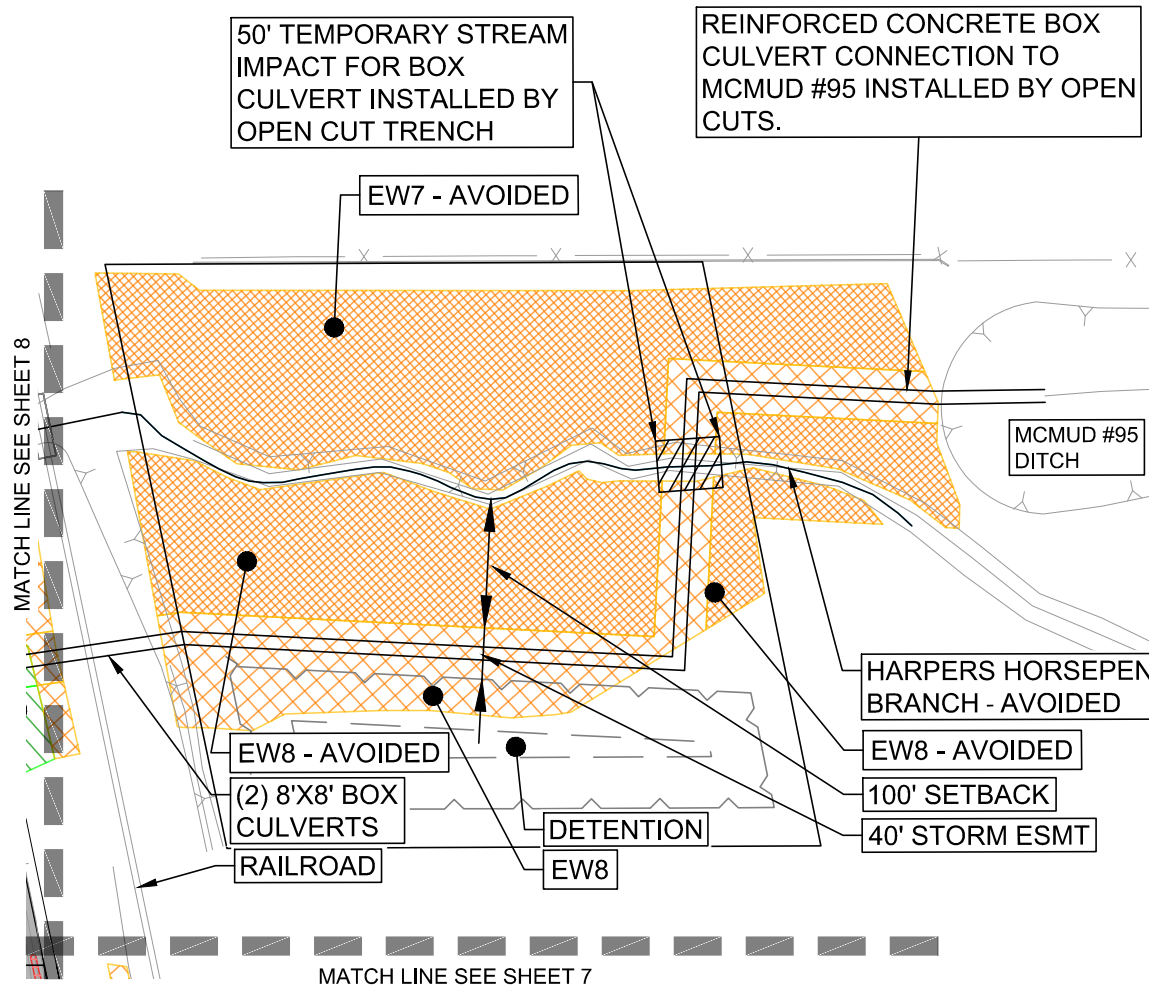
LEGEND

	OPEN WATER WETLANDS (OW) [IMPACTED]
	EMERGENT WETLANDS (EW) [IMPACTED]
	EMERGENT WETLANDS (EW) [AVOIDED]
	FORESTED WETLANDS (FW) [IMPACTED]
	FORESTED WETLANDS (FW) [AVOIDED]
	LINEAR EMERGENT WETLANDS (LEW) [IMPACTED]
	PUBLIC ROAD

- IMPACTS TO HARPERS HORSEPEN BRANCH AND ALL EMERGENT WETLANDS FROM PIPE CONSTRUCTION ARE TEMPORARY.
- IMPACTED AREAS WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS AND CONDITIONS UPON COMPLETION OF CONSTRUCTION.



KEYMAP
1" = 2000'



SCALE: 1" = 150'

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