

**STATE HIGHWAY 73  
FROM FM 1663 TO KIKER ROAD  
VICINITY MAP  
TEXAS DEPARTMENT OF  
TRANSPORTATION  
CHAMBERS & JEFFERSON COUNTIES**



20465 State Highway 249, Suite 300  
Houston, TX 77070

Figure No.: 1
Date: 4/16/2018
Project No.: 18196.00N
Drawn By: EVDonato
Revision No.: 1

*Note: This is not a Property Boundary Survey*

**Table of Waters of the U.S. Impacted by the Proposed Project**

Crossing ID	Waterbody ID	Latitude	Longitude	Resource Type	Linear Feet in Project Area	Acres in Project Area	Impact Type	Linear Feet of Impact	Acres of Impact	Excavation CY of Material	Rip Rap Placement CY of Material	Clean Soil Placement CY of Material
1	Ditch 1	29.824845°	-94.350731°	IS	4,577	1.86	D/P	828	0.37	354.00	27.00	678.50
1	Ditch 2	29.825274°	-94.348759°	IS	315	0.07	D/P	142	0.04	23.00	2.00	234.00
1	Ditch 3	29.824838°	-94.352090°	IS	75	0.02	D/P	57	0.01	21.00	0.00	107.00
1	Ditch 4	29.824845°	-94.352342°	IS	75	0.02	D/P	53	0.01	21.00	0.00	107.00
1	Ditch 7	29.825063°	-94.352601°	IS	51	0.01	D/P	51	0.01	21.00	0.00	107.00
1	PFO 1	29.824717°	-94.347457°	PFO	-	3.67	D/P	-	0.00	0.00	0.00	0.00
1	PFO 2	29.824985°	-94.350560°	PFO	-	0.19	D/P	-	0.19	0.00	0.00	773.00
1	PFO 3	29.824848°	-94.351288°	PFO	-	0.42	D/P	-	0.38	372.00	0.00	865.50
1	PFO 4	29.825645°	-94.348189°	PFO	-	0.17	D/P	-	0.17	49.50	0.00	472.50
1	PFO 5	29.824846°	-94.343748°	PFO	-	0.21	D/P	-	0.00	0.00	0.00	0.00
1	PEM 1	29.824573°	-94.349846°	PEM	-	0.29	D/P	-	0.00	0.00	0.00	0.00
1	PEM 2	29.824697°	-94.350367°	PEM	-	0.35	D/P	-	0.00	0.00	0.00	0.00
1	PSS 1	29.825641°	-94.348403°	PSS	-	0.04	D/P	-	0.04	16.50	0.00	157.50
2	Ditch 5	29.825956°	-94.378689°	IS	387	0.09	D/P	141	0.04	337.00	0.00	9.00
2	Ditch 6	29.826106°	-94.380686°	IS	1,830	0.43	D/P	853	0.22	0.00	0.00	225.00
PFO SUBTOTAL					-	4.66	-	-	0.74	421.50	0.00	2,111.00
PSS SUBTOTAL					-	0.04	-	-	0.04	16.50	0.00	157.50
PEM SUBTOTAL					-	0.64	-	-	0.00	0.00	0.00	0.00
IS SUBTOTAL					7,310	2.50	-	2,125	0.70	777.00	29.00	1,467.50
<b>TOTAL</b>					<b>7,310</b>	<b>7.84</b>	<b>-</b>	<b>2,125</b>	<b>1.48</b>	<b>1,215.00</b>	<b>29.00</b>	<b>3,736.00</b>

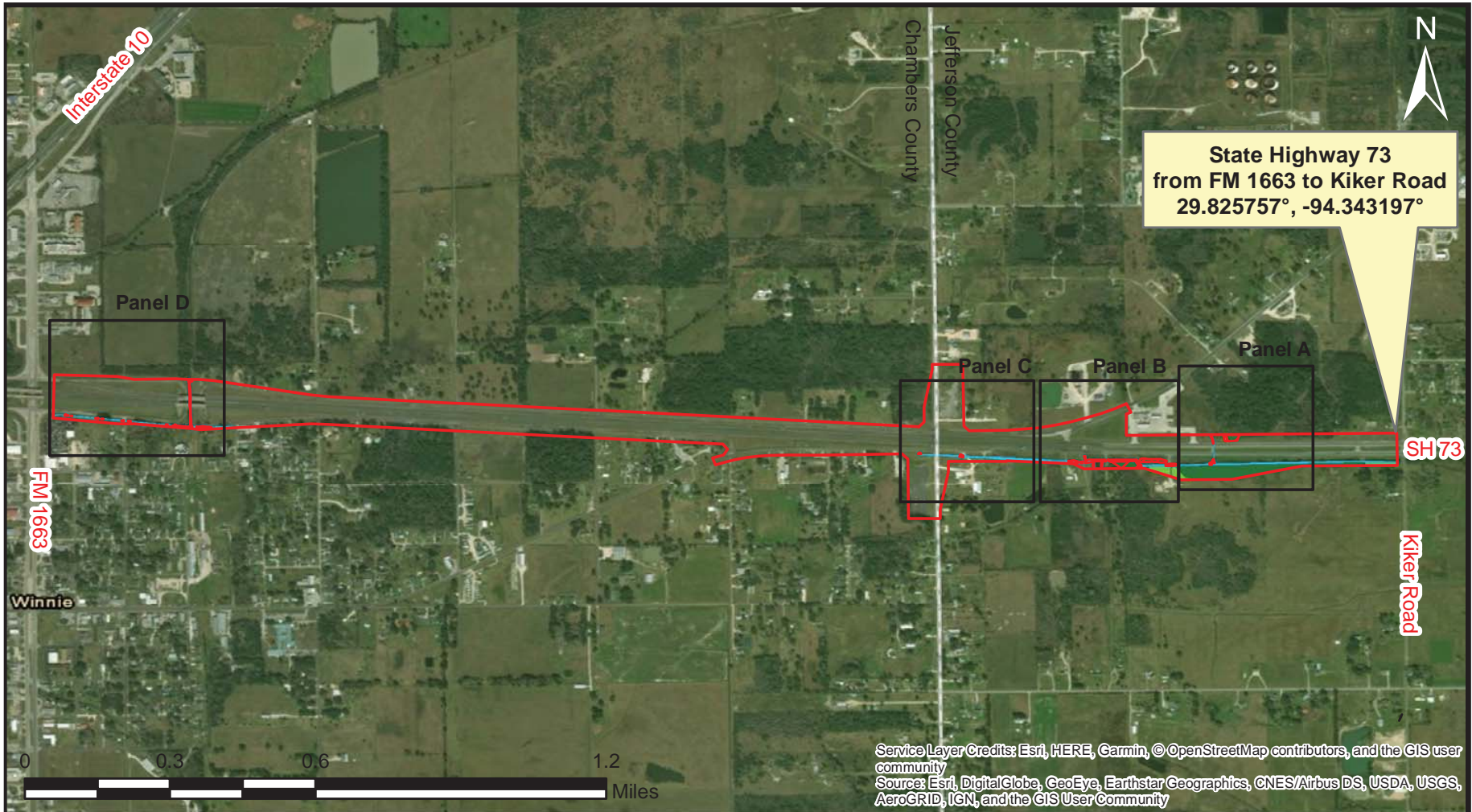
PFO - Palustrine forested wetland

PSS - Palustrine scrub-shrub wetland

PEM - Palustrine emergent wetland

IS - Intermittent Stream

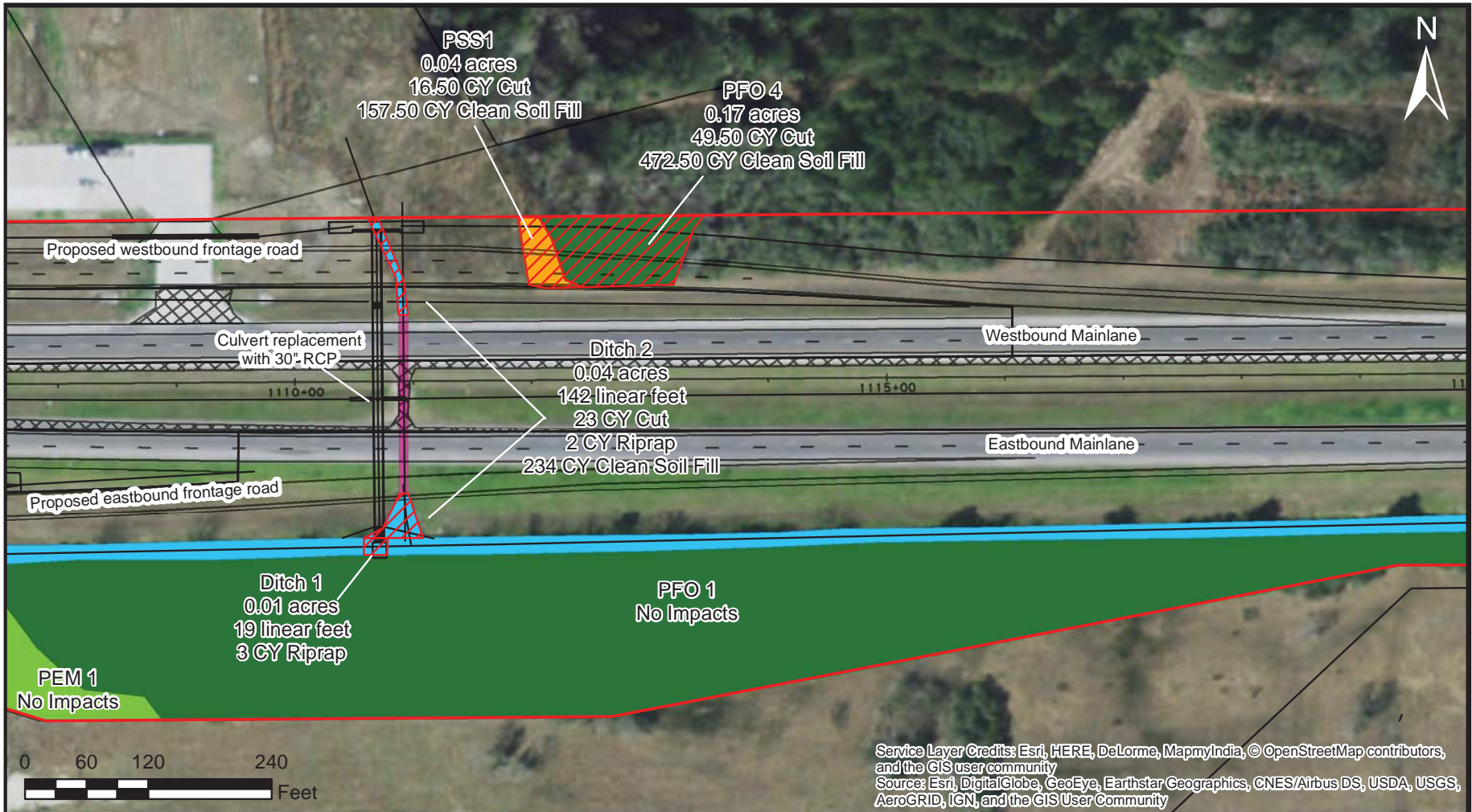
D/P - Direct and Permanent




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<p><b>Legend</b></p> <ul style="list-style-type: none"> <li><span style="border: 1px solid red; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> Delineation Boundary</li> <li><span style="background: repeating-linear-gradient(45deg, transparent, transparent 2px, red 2px, red 4px); border: 1px solid red; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> Impact Areas</li> <li><span style="background-color: lightblue; border: 1px solid black; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> Ditches (2.50 acres)</li> <li><span style="background-color: magenta; border: 1px solid black; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> Culverts (0.20 acres)</li> </ul> <p><b>Wetlands (5.34 acres)</b></p> <ul style="list-style-type: none"> <li><span style="background-color: lightgreen; border: 1px solid black; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> PEM (0.64 acres)</li> <li><span style="background-color: darkgreen; border: 1px solid black; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> PFO (4.66 acres)</li> <li><span style="background-color: orange; border: 1px solid black; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> PSS (0.04 acres)</li> </ul>	<p><b>STATE HIGHWAY 73 FROM FM 1663 TO KIKER ROAD IMPACTS OVERVIEW MAP TEXAS DEPARTMENT OF TRANSPORTATION CHAMBERS &amp; JEFFERSON COUNTIES</b></p>	<p>Figure No.: 2</p>
	<p><b>SPRIT ENVIRONMENTAL</b></p> <p>20465 State Highway 249, Suite 300 Houston, TX 77070</p>	<p>Date: 4/17/2018</p> <p>Project No.: 18196.00N</p> <p>Drawn By: EVDonato</p> <p>Revision No.: 1</p> <p><i>Note: This is not a property boundary survey.</i></p>

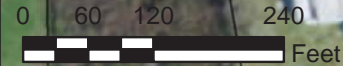
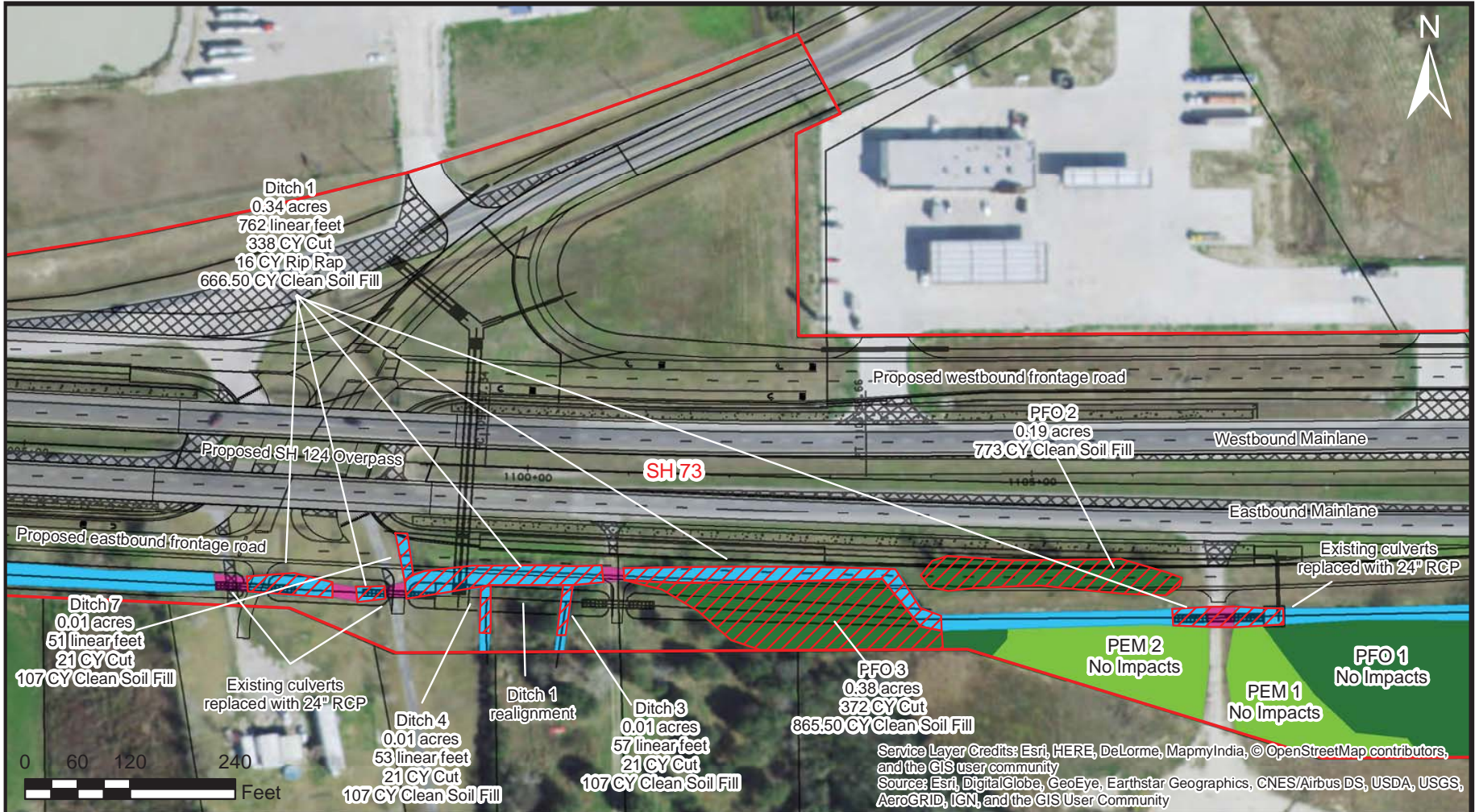




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Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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**Legend**

- Delineation Boundary
- Impact Areas
- Existing Culverts (0.20 acres)
- Ditches (2.50 acres)
- Wetlands (5.34 acres)**
- PEM (0.64 acres)
- PFO (4.66 acres)
- PSS (0.04 acres)
- Pavement to be removed

**STATE HIGHWAY 73  
FROM FM 1663 TO KIKER ROAD  
PANEL B IMPACTS MAP  
TEXAS DEPARTMENT OF  
TRANSPORTATION  
CHAMBERS & JEFFERSON COUNTIES**



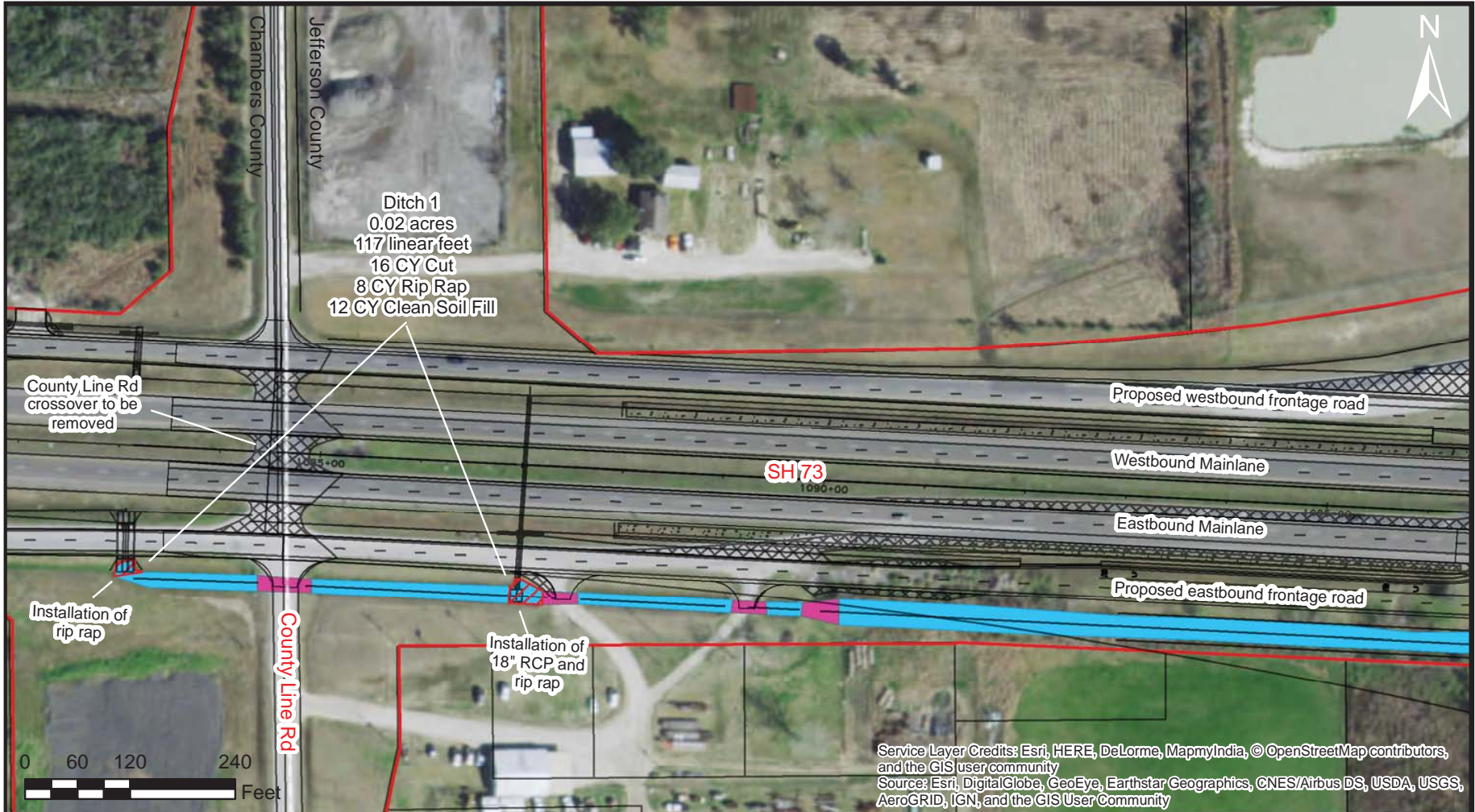
20465 State Highway 249, Suite 300  
Houston, TX 77070

Figure No.: 4
Date: 4/18/2018
Project No.: 18196.00N
Drawn By: EVDonato
Revision No.: 1


*Note: This is not a property boundary survey.*

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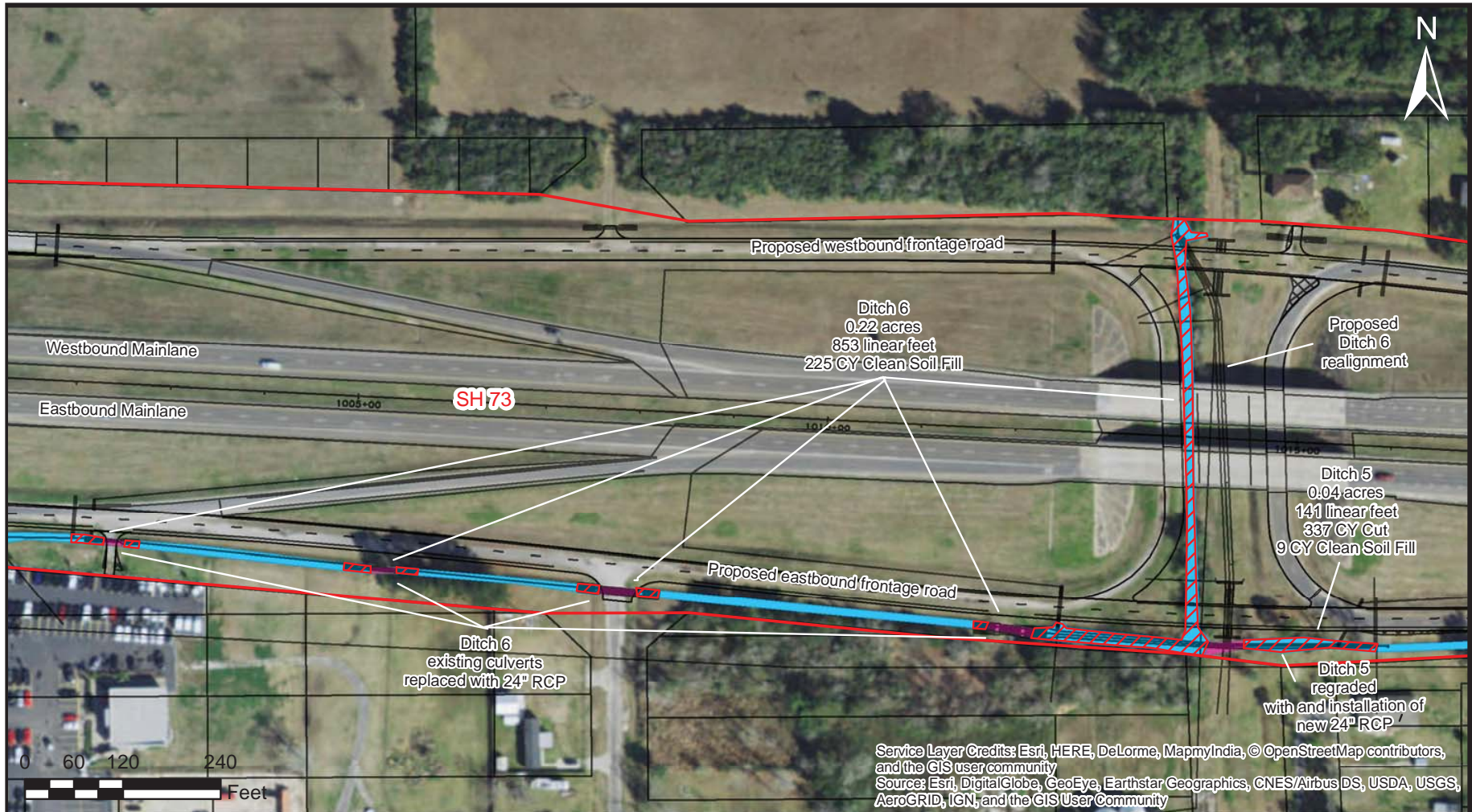




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 Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

<p><b>Legend</b></p> <ul style="list-style-type: none"> <li><span style="display: inline-block; width: 20px; height: 10px; border: 1px solid red; margin-right: 5px;"></span> Delineation Boundary</li> <li><span style="display: inline-block; width: 20px; height: 10px; border: 1px solid red; background: repeating-linear-gradient(45deg, transparent, transparent 2px, red 2px, red 4px); margin-right: 5px;"></span> Impact Areas</li> <li><span style="display: inline-block; width: 20px; height: 10px; background-color: magenta; margin-right: 5px;"></span> Existing Culverts (0.20 acres)</li> <li><span style="display: inline-block; width: 20px; height: 10px; background-color: cyan; margin-right: 5px;"></span> Ditches (2.50 acres)</li> </ul> <p><b>Wetlands (5.34 acres)</b></p> <ul style="list-style-type: none"> <li><span style="display: inline-block; width: 20px; height: 10px; background-color: lightgreen; margin-right: 5px;"></span> PEM (0.64 acres)</li> <li><span style="display: inline-block; width: 20px; height: 10px; background-color: darkgreen; margin-right: 5px;"></span> PFO (4.66 acres)</li> <li><span style="display: inline-block; width: 20px; height: 10px; background-color: orange; margin-right: 5px;"></span> PSS (0.04 acres)</li> </ul>	<p><b>STATE HIGHWAY 73 FROM FM 1663 TO KIKER ROAD PANEL C IMPACTS MAP TEXAS DEPARTMENT OF TRANSPORTATION CHAMBERS &amp; JEFFERSON COUNTIES</b></p>  <p>20465 State Highway 249, Suite 300 Houston, TX 77070</p>	<p>Figure No.: 5</p> <p>Date: 4/18/2018</p> <p>Project No.: 18196.00N</p> <p>Drawn By: EVDonato</p> <p>Revision No.: 1</p> <p><i>Note: This is not a property boundary survey.</i></p>
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**Legend**

Delineation Boundary	Pavement to be removed
Impact Areas	
Existing Culverts (0.20 acres)	
Ditches (2.50 acres)	
<b>Wetlands (5.34 acres)</b>	
PEM (0.64 acres)	
PFO (4.66 acres)	
PSS (0.04 acres)	

**STATE HIGHWAY 73  
 FROM FM 1663 TO KIKER ROAD  
 PANEL D IMPACTS MAP  
 TEXAS DEPARTMENT OF  
 TRANSPORTATION  
 CHAMBERS & JEFFERSON COUNTIES**

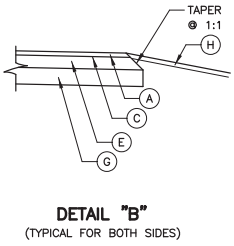
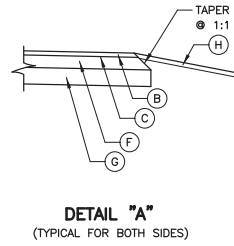
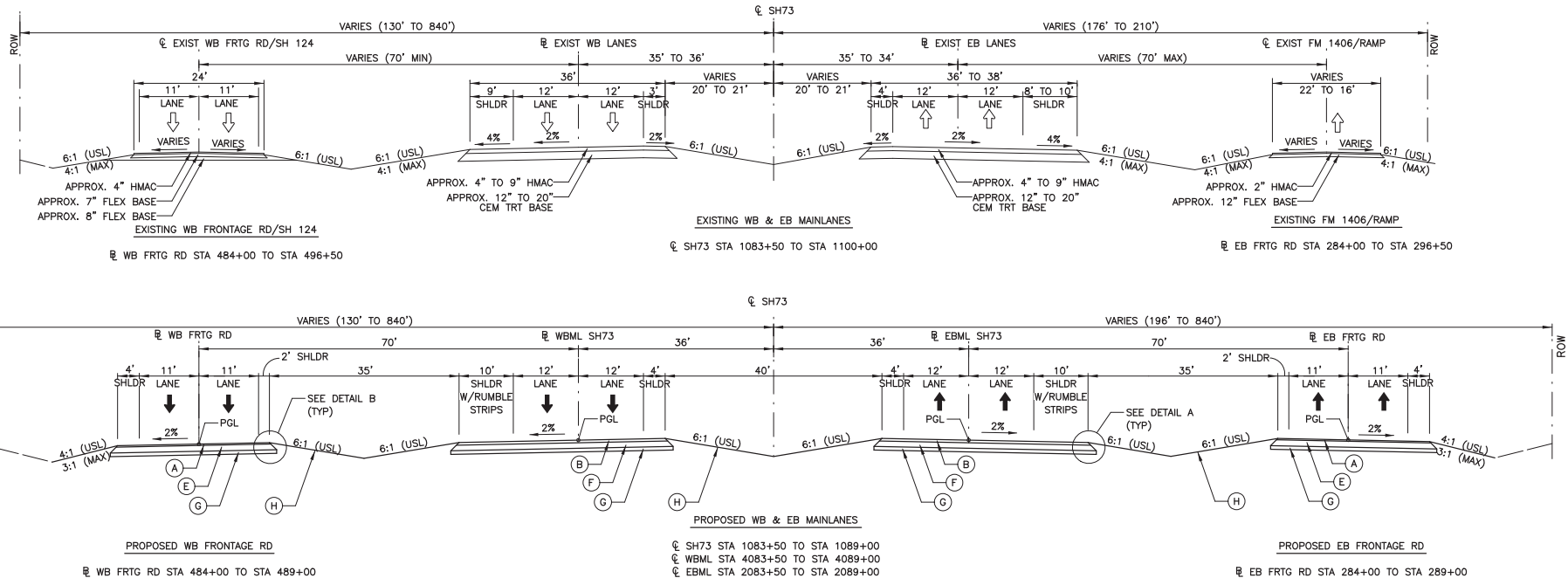


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 Houston, TX 77070

Figure No.: 6  
 Date: 4/18/2018  
 Project No.: 18196.00N  
 Drawn By: EVDonato  
 Revision No.: 1

*Note: This is not a property boundary survey.*

10/13/2017 2:49:53 PM gmontalano pw:\Active Projects\TXNRS\2001.07\8.00 Plans and Drawings\8-30\_Cyl\_Surfs\8.3.04\_Roadway\2001.07\RD\IS01.dwg



**LEGEND:**

- (A) 3" HOT MIX (TYPE C)
- (B) 4" HOT MIX (TYPE C)
- (C) PRIME BASE
- (D) 10" FLEX BASE
- (E) 13" CEM TRT NEW BASE
- (F) 12" FLEX BASE
- (G) 8" LIME TREATED SUBGRADE
- (H) 4" TOPSOIL, SEED, FERTILIZER, WATER
- (I) CLASS B CONCRETE FLUME
- (J) 4" CONCRETE MOW STRIP
- (K) EMBANKMENT
- (L) RETAINING WALL (MSE)
- (M) CONC. CURB & GUTTER
- (N) 4" CONC RIPRAP (CLASS B)

**PRELIMINARY**

FOR INTERIM REVIEW ONLY  
Not for construction, bidding,  
or permit purposes.

**CP&Y**  
F-1741

Engineer **MARCEL D. STRACHAN**  
P.E. No. 99302 Date 10/13/2017

NO.	REVISION	BY	DATE

**CP&Y**  
TEXAS REGISTERED ENGINEERING FIRM, F-1741

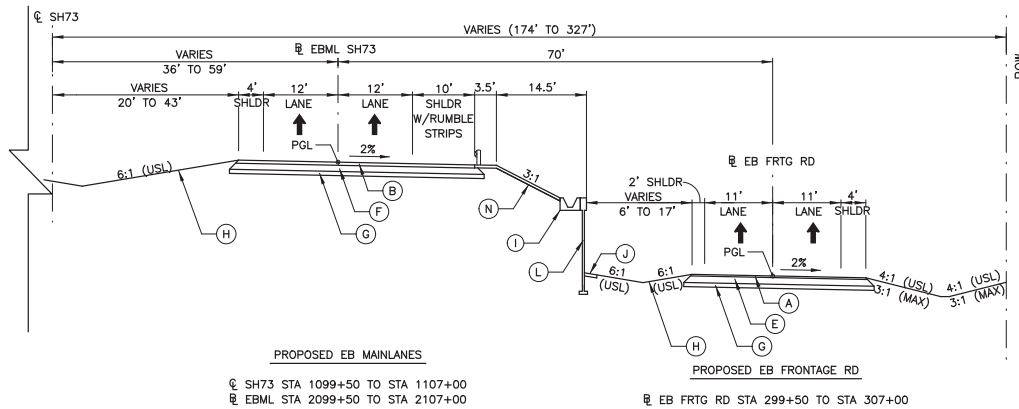
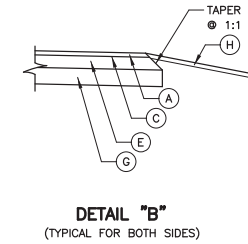
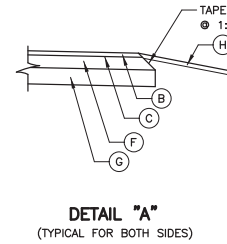
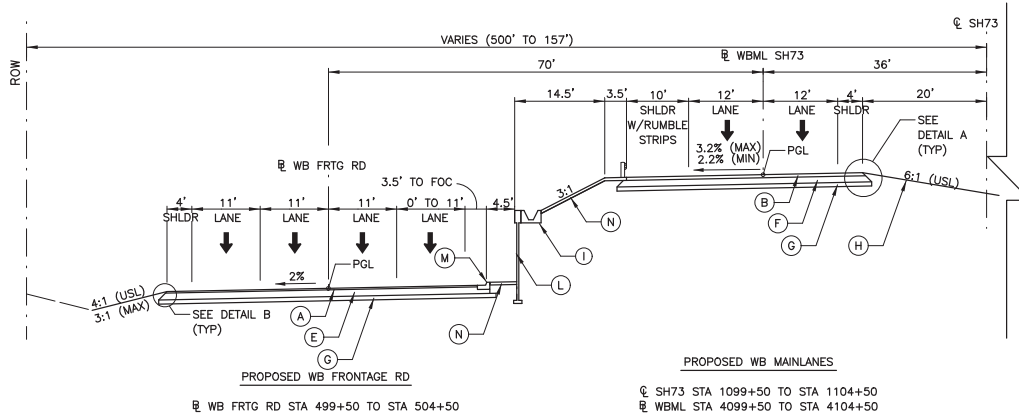
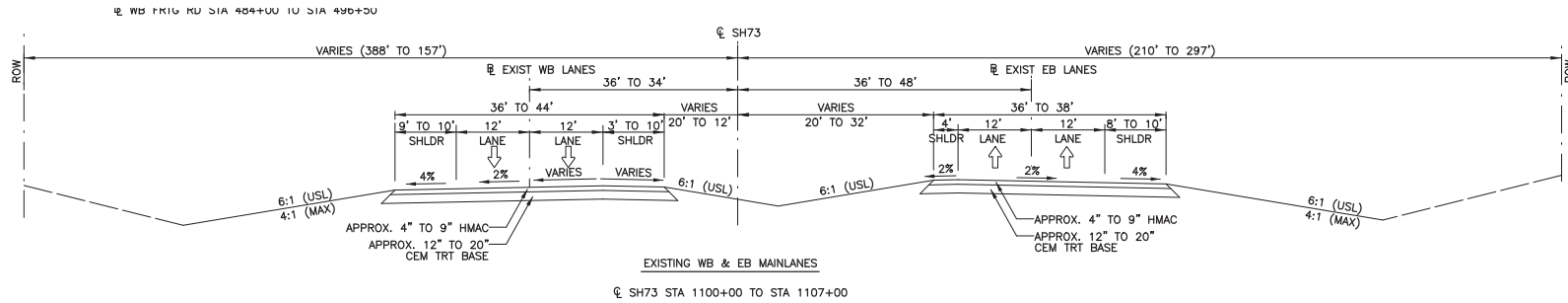
©2017 **Texas Department of Transportation**  
SH 73

**TYPICAL SECTIONS**

Checked:	MDS	FED. RD. DIST. NO.	STATE	FEDERAL AID PROJECT NO.	HIGHWAY NO.
Checked:	BAJ	6	TEXAS	STP 2013 (577), ETC	SH 73
Drawn:	MDS	INST.	COUNTY	CONTRACT SECTION	SHEET
Checked:	BAJ	BMT	CHAMBERS, ETC.	0508	03 09B, ETC.

SCALE = N.T.S.  
SHEET 4 OF 11





**LEGEND:**

- (A) 3" HOT MIX (TYPE C)
- (B) 4" HOT MIX (TYPE C)
- (C) PRIME BASE
- (D) 10" FLEX BASE
- (E) 13" CEM TRT NEW BASE
- (F) 12" FLEX BASE
- (G) 8" LIME TREATED SUBGRADE
- (H) 4" TOPSOIL, SEED, FERTILIZER, WATER
- (I) CLASS B CONCRETE FLUME
- (J) 4" CONCRETE MOW STRIP
- (K) EMBANKMENT
- (L) RETAINING WALL (MSE)
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Engineer: MARCEL D. STRACHAN  
P.E. No. 99302 Date 10/13/2017

NO.	REVISION	BY	DATE

TEXAS REGISTERED ENGINEERING FIRM, F-1741

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SH 73

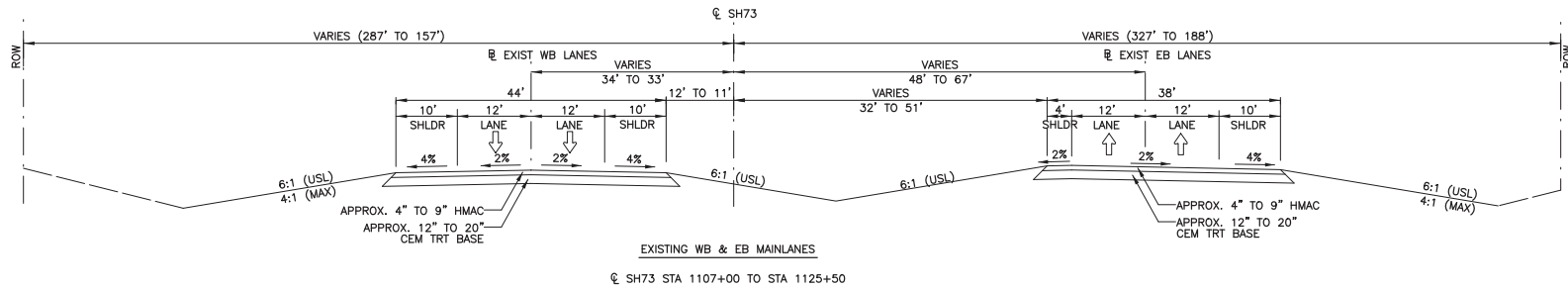
**TYPICAL SECTIONS**

Design	MDS	FED. RD. DIST. NO.	STATE	FEDERAL AID PROJECT NO.	HIGHWAY NO.
Checked	BAJ	6	TEXAS	STP 2013 (577), ETC	SH 73
Drawn	MDS				
Checked	BAJ	BMT	CHAMBERS, ETC.	0508	03 09B, ETC. 11

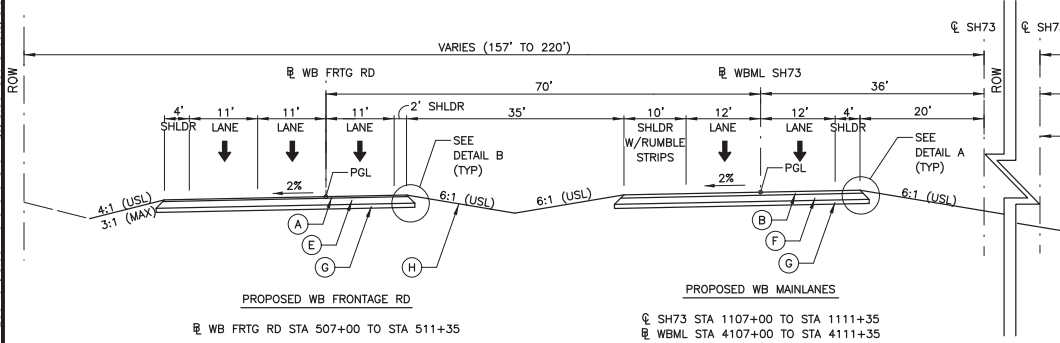
SCALE = N.T.S.  
SHEET 7 OF 11

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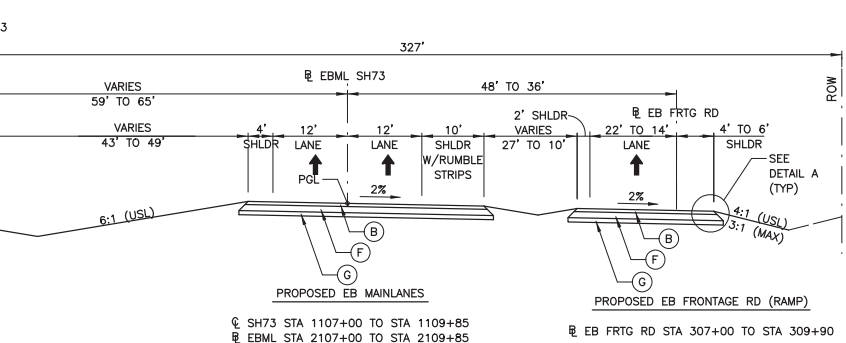


EXISTING WB & EB MAINLANES  
CL SH73 STA 1107+00 TO STA 1125+50



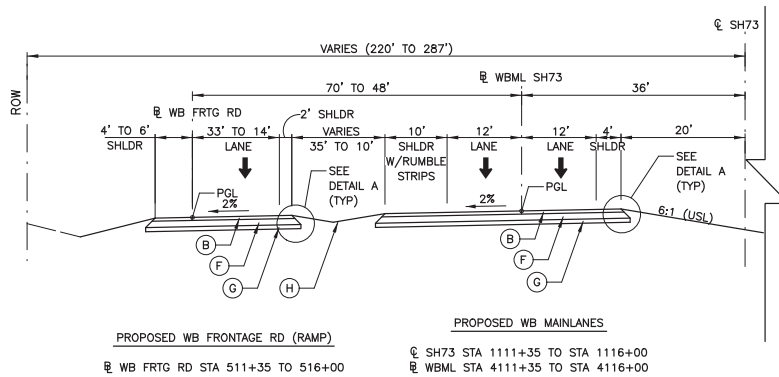
PROPOSED WB FRONTAGE RD  
WB FRGT RD STA 507+00 TO STA 511+35

PROPOSED WB MAINLANES  
CL SH73 STA 1107+00 TO STA 1111+35  
WBML STA 4107+00 TO STA 4111+35



PROPOSED EB MAINLANES  
CL SH73 STA 1107+00 TO STA 1109+85  
EBML STA 2107+00 TO STA 2109+85

PROPOSED EB FRONTAGE RD (RAMP)  
EB FRGT RD STA 307+00 TO STA 309+90



PROPOSED WB FRONTAGE RD (RAMP)  
WB FRGT RD STA 511+35 TO 516+00

PROPOSED WB MAINLANES  
CL SH73 STA 1111+35 TO STA 1116+00  
WBML STA 4111+35 TO STA 4116+00

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P.E. No. 99302 Date 10/13/2017

NO.	REVISION	BY	DATE

**CP&Y**  
TEXAS REGISTERED ENGINEERING FIRM, F-1741  
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SH 73  
**TYPICAL SECTIONS**

Drawn by	MDS	FED. RD. DIST. NO.	STATE	FEDERAL AID PROJECT NO.	HIGHWAY NO.
Checked by	BAJ	6	TEXAS	STP 2013 (577), ETC	SH 73
Drawn by	MDS	DIST.	COUNTY	CONTRACT NO.	SHEET NO.
Checked by	BAJ	BMT	CHAMBERS, ETC.	0508	03 09B, ETC. 13

SCALE = N.T.S.  
SHEET 9 OF 11