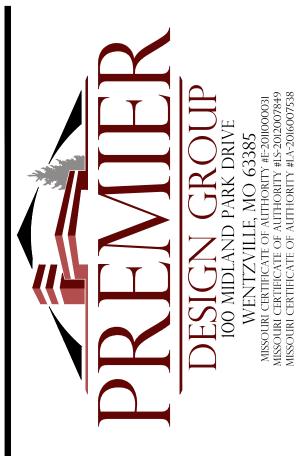
etdeete		Quantity	Unit
STREETS Sourceut existing nevernent		525	L.F.
Saw-cut existing pavement  Concrete Curb & Gutter		2,447	L.F.
6" Vertical Curb		228	L.F.
Type "S" Curbing		155	L.F.
Temporary 4" PCC Island and Walk w ith Aggregate		700	S.F.
8" PCC Concrete		6,160	S.Y.
Type 5 Aggregate Base		1,607	Ton
9" PCC Concrete		186	S.Y.
Temporary Asphalt (Old Highway N)		101	S.Y.
Pavement Markings - Stripe		5,488	L.F.
Pavement Markings - Arrows		21	EACH
Pavement Markings - Stop Bar		4	EACH
Guardrail		255	L.F.
Guardrail End Terminal		2	EACH
Removal of Asphalt Improvements (Old Highway N)		420	S.Y.
Removal of Concrete Improvements (Sommers Road & Old Forester Drive)		570	S.Y.
Traffic Control		1	L.S.
Signage - Stop Sign		1	EACH
Signage - Yield Sign		1	EACH
Signage - Speed Limit		2	EACH
Signage - Street Name		2	EACH
Mobilization		1 -	L.S.
Light Standards, Poles, and Pedestals		5 2.570	EACH
Grading  Pight of Way Manumentation		2,570	C.Y.
Right-of-Way Monumentation Surveying Construction Staking		22 1	L.S.
Surveying Construction Staking		ī	L.O.
ELECTRIC			
2-1/2" Schedule 40 Conduit		1,095	L.F.
2" Schedule 40 Conduit 2" Schedule 40 Conduit		69	L.F.
3" Schedule 40 Conduit		926	L.F.
4" Schedule 40 Conduit		124	L.F.
Class 2 Pull Box		1	EACH
Class 3 Pull Box		1	EACH
Surveying Construction Staking		1	L.S.
Grate Inlet w ith Side Intake Curb Inlet	1	6	EACH EACH
A non-field		1	EACH
		1	EACH
15" Flared End		1	EACH
Area Inlet 15" Flared End Manhole 12" Class III RCP		1 4	EACH EACH
15" Flared End Manhole 12" Class III RCP		1 4 274	EACH EACH L.F.
15" Flared End Manhole		1 4	EACH EACH
15" Flared End  Manhole  12" Class III RCP  15" Class III RCP		1 4 274 254	EACH EACH L.F.
15" Flared End  Manhole  12" Class III RCP  15" Class III RCP  30" Class III RCP		1 4 274 254 353	EACH EACH L.F. L.F.
15" Flared End  Manhole  12" Class III RCP  15" Class III RCP  30" Class III RCP  36" Class III RCP		1 4 274 254 353 158	EACH EACH L.F. L.F. L.F.
15" Flared End  Manhole  12" Class III RCP  15" Class III RCP  30" Class III RCP  36" Class III RCP  4" Perforated Underdrain  Ganular Fill		1 4 274 254 353 158 128	EACH EACH L.F. L.F. L.F. L.F.
15" Flared End  Manhole  12" Class III RCP  15" Class III RCP  30" Class III RCP  36" Class III RCP  4" Perforated Underdrain  Ganular Fill		1 4 274 254 353 158 128 502	EACH EACH L.F. L.F. L.F. L.F. Ton
15" Flared End  Manhole  12" Class III RCP  15" Class III RCP  30" Class III RCP  36" Class III RCP  4" Perforated Underdrain  Ganular Fill  Surveying Construction Staking		1 4 274 254 353 158 128 502	EACH EACH L.F. L.F. L.F. L.F. Ton
15" Flared End  Manhole  12" Class III RCP  15" Class III RCP  30" Class III RCP  36" Class III RCP  4" Perforated Underdrain  Ganular Fill  Surveying Construction Staking  WATER		1 4 274 254 353 158 128 502	EACH EACH L.F. L.F. L.F. L.F. Ton
15" Flared End  Manhole  12" Class III RCP  15" Class III RCP  30" Class III RCP  36" Class III RCP  4" Perforated Underdrain  Ganular Fill  Surveying Construction Staking  WATER		1 4 274 254 353 158 128 502 1	EACH EACH L.F. L.F. L.F. Ton L.S.
15" Flared End  Manhole  12" Class III RCP  15" Class III RCP  30" Class III RCP  4" Perforated Underdrain  Ganular Fill  Surveying Construction Staking  WATER  20"x8" Split Mechanical Tapping Sleeve		1 4 274 254 353 158 128 502 1	EACH EACH L.F. L.F. L.F. Ton L.S.
Manhole  12" Class III RCP  15" Class III RCP  30" Class III RCP  36" Class III RCP  4" Perforated Underdrain  Ganular Fill  Surveying Construction Staking  WATER  20"x8" Split Mechanical Tapping Sleeve  Connect to Existing 8" Water Main		1 4 274 254 353 158 128 502 1	EACH L.F. L.F. L.F. Ton L.S.  EACH EACH EACH EACH EACH
Manhole  12" Class III RCP  15" Class III RCP  30" Class III RCP  36" Class III RCP  4" Perforated Underdrain  Ganular Fill  Surveying Construction Staking  WATER  20"x8" Split Mechanical Tapping Sleeve  Connect to Existing 8" Water Main  Remove Existing Fire Hydrant  Fire Hydrant  6" Valve		1 4 274 254 353 158 128 502 1	EACH L.F. L.F. L.F. Ton L.S.  EACH EACH EACH EACH EACH EACH
Manhole  12" Class III RCP  15" Class III RCP  30" Class III RCP  36" Class III RCP  4" Perforated Underdrain  Ganular Fill  Surveying Construction Staking  WATER  20"x8" Split Mechanical Tapping Sleeve  Connect to Existing 8" Water Main  Remove Existing Fire Hydrant  Fire Hydrant  6" Valve		1 4 274 254 353 158 128 502 1 1 1 1 1 3 3 3	EACH L.F. L.F. L.F. Ton L.S.  EACH EACH EACH EACH EACH EACH EACH
15" Flared End  Manhole  12" Class III RCP  15" Class III RCP  30" Class III RCP  36" Class III RCP  4" Perforated Underdrain  Ganular Fill  Surveying Construction Staking  WATER  20"x8" Split Mechanical Tapping Sleeve  Connect to Existing 8" Water Main  Remove Existing Fire Hydrant  Fire Hydrant  6" Valve  8" Valve		1 4 274 254 353 158 128 502 1 1 1 1 1 3 3 14 3	EACH L.F. L.F. L.F. Ton L.S.  EACH EACH EACH EACH EACH EACH EACH EAC
15" Flared End  Manhole  12" Class III RCP  15" Class III RCP  30" Class III RCP  36" Class III RCP  4" Perforated Underdrain  Ganular Fill  Surveying Construction Staking  WATER  20"x8" Split Mechanical Tapping Sleeve  Connect to Existing 8" Water Main  Remove Existing Fire Hydrant  Fire Hydrant  6" Valve  8" Valve  8" x8"x6" Tee		1 4 274 254 353 158 128 502 1 1 1 1 3 3 3 14 3	EACH L.F. L.F. L.F. Ton L.S.  EACH EACH EACH EACH EACH EACH EACH EAC
15" Flared End  Manhole  12" Class III RCP  15" Class III RCP  30" Class III RCP  36" Class III RCP  4" Perforated Underdrain  Ganular Fill  Surveying Construction Staking  WATER  20"x8" Split Mechanical Tapping Sleeve  Connect to Existing 8" Water Main  Remove Existing Fire Hydrant  Fire Hydrant  6" Valve  8"x8"x6" Tee  8"x8"x6" Tee		1 4 274 254 353 158 128 502 1 1 1 1 1 3 3 14 3	EACH L.F. L.F. L.F. Ton L.S.  EACH EACH EACH EACH EACH EACH EACH EAC
15" Flared End Manhole  12" Class III RCP  15" Class III RCP  30" Class III RCP  36" Class III RCP  4" Perforated Underdrain  Ganular Fill  Surveying Construction Staking  WATER  20"x8" Split Mechanical Tapping Sleeve  Connect to Existing 8" Water Main  Remove Existing Fire Hydrant  Fire Hydrant  6" Valve  8" valve  8" x8"x6" Tee  8" x8"x8" Tee  8" Plug		1 4 274 254 353 158 128 502 1 1 1 1 3 3 3 14 3	EACH L.F. L.F. L.F. Ton L.S.  EACH EACH EACH EACH EACH EACH EACH EAC
15" Flared End Manhole  12" Class III RCP  15" Class III RCP  30" Class III RCP  36" Class III RCP  4" Perforated Underdrain  Ganular Fill  Surveying Construction Staking  WATER  20"x8" Split Mechanical Tapping Sleeve  Connect to Existing 8" Water Main  Remove Existing Fire Hydrant  Fire Hydrant  6" Valve  8" Valve  8" X8"x6" Tee  8" Plug  6" PVC		1 4 274 254 353 158 128 502 1 1 1 1 3 3 3 14 3 3	EACH L.F. L.F. L.F. Ton L.S.  EACH EACH EACH EACH EACH EACH EACH EAC
Manhole  12" Class III RCP  15" Class III RCP  30" Class III RCP  30" Class III RCP  4" Perforated Underdrain  Ganular Fill  Surveying Construction Staking  WATER  20"x8" Split Mechanical Tapping Sleeve  Connect to Existing 8" Water Main  Remove Existing Fire Hydrant		1 4 274 254 353 158 128 502 1 1 1 1 3 3 14 3 3 14 3	EACH L.F. L.F. L.F. Ton L.S.  EACH EACH EACH EACH EACH EACH EACH EAC
15" Flared End Manhole  12" Class III RCP  15" Class III RCP  30" Class III RCP  36" Class III RCP  4" Perforated Underdrain  Ganular Fill  Surveying Construction Staking  WATER  20"x8" Split Mechanical Tapping Sleeve  Connect to Existing 8" Water Main  Remove Existing Fire Hydrant  Fire Hydrant  6" Valve  8" Valve  8" X8"x6" Tee  8" x8"x8" Tee  8" Plug  6" PVC  Granular Fill		1 4 274 254 353 158 128 502 1 1 1 1 3 3 3 14 3 3 3 18 1,333	EACH L.F. L.F. L.F. Ton L.S.  EACH EACH EACH EACH EACH EACH EACH EAC
15" Flared End Manhole  12" Class III RCP  15" Class III RCP  30" Class III RCP  36" Class III RCP  4" Perforated Underdrain  Ganular Fill  Surveying Construction Staking  WATER  20"x8" Split Mechanical Tapping Sleeve  Connect to Existing 8" Water Main  Remove Existing Fire Hydrant  Fire Hydrant  6" Valve  8" Valve  8" X8"x6" Tee  8" x8"x8" Tee  8" Plug  6" PVC  Granular Fill		1 4 274 254 353 158 128 502 1 1 1 1 3 3 3 14 3 3 14 3 3 40	EACH L.F. L.F. L.F. Ton L.S.  EACH EACH EACH EACH EACH EACH EACH EAC
15" Flared End Manhole  12" Class III RCP  15" Class III RCP  30" Class III RCP  36" Class III RCP  4" Perforated Underdrain  Ganular Fill  Surveying Construction Staking  WATER  20"x8" Split Mechanical Tapping Sleeve  Connect to Existing 8" Water Main  Remove Existing Fire Hydrant  Fire Hydrant  6" Valve  8" Valve  8" X8"x6" Tee  8" x8"x8" Tee  8" Plug  6" PVC  Granular Fill		1 4 274 254 353 158 128 502 1 1 1 1 3 3 14 3 3 14 3 3 18 1,333 40 1	EACH L.F. L.F. Ton L.S.  EACH EACH EACH EACH EACH EACH EACH EAC
15" Flared End  Manhole  12" Class III RCP  15" Class III RCP  30" Class III RCP  36" Class III RCP  36" Class III RCP  4" Perforated Underdrain  Ganular Fill  Surveying Construction Staking  WATER  20"x8" Split Mechanical Tapping Sleeve  Connect to Existing 8" Water Main  Remove Existing Fire Hydrant  Fire Hydrant  6" Valve  8" Valve  8" Valve  8" Valve  8" Rug  6" PVC  Granular Fill  Surveying Construction Staking  SIDEWALKS  Concrete Accessible Curb Ramp with Truncated Domes		1 4 274 254 353 158 128 502 1 1 1 1 3 3 3 14 3 3 18 1,333 40 1	EACH L.F. L.F. Ton L.S.  EACH EACH EACH EACH EACH EACH EACH EAC
15" Flared End Manhole  12" Class III RCP  15" Class III RCP  30" Class III RCP  36" Class III RCP  4" Perforated Underdrain  Ganular Fill  Surveying Construction Staking  WATER  20"x8" Split Mechanical Tapping Sleeve  Connect to Existing 8" Water Main  Remove Existing Fire Hydrant  Fire Hydrant  6" Valve  8" Valve  8" Valve  8"x8"x8" Tee  8"x8"x8" Tee  8" Plug  6" PVC  Granular Fill  Surveying Construction Staking  SIDEWALKS  Concrete Accessible Curb Ramp with Truncated Domes  Concrete Sidew alk with Aggregate		1 4 274 254 353 158 128 502 1 1 1 1 3 3 3 14 3 3 14 3 3 14 3 1 1 1 1	EACH L.F. L.F. Ton L.S.  EACH EACH EACH EACH EACH EACH EACH EAC
15" Flared End Manhole  12" Class III RCP  15" Class III RCP  30" Class III RCP  36" Class III RCP  4" Perforated Underdrain  Ganular Fill  Surveying Construction Staking  WATER  20"x8" Split Mechanical Tapping Sleeve  Connect to Existing 8" Water Main  Remove Existing Fire Hydrant  Fire Hydrant  6" Valve  8" Valve  8" Valve  8"x8"x8" Tee  8" Plug  6" PVC  Granular Fill  Surveying Construction Staking  SIDEWALKS  Concrete Accessible Curb Ramp with Truncated Domes  Concrete Sidew alk with Aggregate  Retaining Wall		1 4 274 254 353 158 128 502 1 1 1 1 3 3 3 14 3 3 14 3 3 14 3 1 1 1 1	EACH L.F. L.F. Ton L.S.  EACH EACH EACH EACH EACH EACH EACH EAC
15" Flared End Manhole  12" Class III RCP  15" Class III RCP  30" Class III RCP  36" Class III RCP  4" Perforated Underdrain  Ganular Fill  Surveying Construction Staking  WATER  20"x8" Split Mechanical Tapping Sleeve  Connect to Existing 8" Water Main  Remove Existing Fire Hydrant  Fire Hydrant  6" Valve  8" Valve  8" Valve  8"x8"x6" Tee  8"x8"x8" Tee  8" Plug  6" PVC  Granular Fill  Surveying Construction Staking  SIDEWALKS  Concrete Accessible Curb Ramp with Truncated Domes  Concrete Sidew alk with Aggregate  Retaining Wall  Gutter Sw ale		1 4 274 254 353 158 128 502 1 1 1 1 3 3 3 14 3 3 3 14 3 3 14 3 1 3 1	EACH L.F. L.F. Ton L.S.  EACH EACH EACH EACH EACH EACH EACH EAC
15" Flared End Manhole  12" Class III RCP  15" Class III RCP  30" Class III RCP  36" Class III RCP  4" Perforated Underdrain  Ganular Fill  Surveying Construction Staking  WATER  20"x8" Split Mechanical Tapping Sleeve  Connect to Existing 8" Water Main  Remove Existing Fire Hydrant  Fire Hydrant  6" Valve  8" Valve  8" X8"x6" Tee  8"x8"x8" Tee  8" PUG  Granular Fill  Surveying Construction Staking  SIDEWALKS  Concrete Accessible Curb Ramp with Truncated Domes  Concrete Sidew alk with Aggregate  Retaining Wall  Gutter Sw ale		1 4 274 254 353 158 128 502 1 1 1 1 3 3 3 14 3 3 14 3 3 14 3 1 1 1 1	EACH L.F. L.F. Ton L.S.  EACH EACH EACH EACH EACH EACH EACH EAC
15" Flared End Manhole  12" Class III RCP  15" Class III RCP  30" Class III RCP  36" Class III RCP  4" Perforated Underdrain  Ganular Fill  Surveying Construction Staking  WATER  20"x8" Split Mechanical Tapping Sleeve  Connect to Existing 8" Water Main  Remove Existing Fire Hydrant  Fire Hydrant  6" Valve  8" Valve  8" X8"x6" Tee  8"x8"x8" Tee  8" PUG  Granular Fill  Surveying Construction Staking  SIDEWALKS  Concrete Accessible Curb Ramp with Truncated Domes  Concrete Sidew alk with Aggregate  Retaining Wall  Gutter Sw ale		1 4 274 254 353 158 128 502 1 1 1 1 3 3 3 14 3 3 3 14 3 3 14 3 1 3 1	EACH L.F. L.F. Ton L.S.  EACH EACH EACH EACH EACH EACH EACH EAC
15" Flared End Manhole  12" Class III RCP  15" Class III RCP  30" Class III RCP  36" Class III RCP  4" Perforated Underdrain  Ganular Fill  Surveying Construction Staking  WATER  20"x8" Split Mechanical Tapping Sleeve  Connect to Existing 8" Water Main  Remove Existing Fire Hydrant  Fire Hydrant  6" Valve  8" Valve  8" X8"x6" Tee  8"x8"x8" Tee  8" PUG  Granular Fill  Surveying Construction Staking  SIDEWALKS  Concrete Accessible Curb Ramp with Truncated Domes  Concrete Sidew alk with Aggregate  Retaining Wall  Gutter Sw ale		1 4 274 254 353 158 128 502 1 1 1 1 3 3 3 14 3 3 3 14 3 3 14 3 1 3 1	EACH L.F. L.F. Ton L.S.  EACH EACH EACH EACH EACH EACH EACH EAC
15" Flared End Manhole  12" Class III RCP  15" Class III RCP  30" Class III RCP  36" Class III RCP  4" Perforated Underdrain Ganular Fill Surveying Construction Staking  WATER  20"x8" Split Mechanical Tapping Sleeve Connect to Existing 8" Water Main Remove Existing Fire Hydrant Fire Hydrant 6" Valve 8" Valve 8" Valve 8" X8"x6" Tee 8"x8"x6" Tee 8"x8"x6" Tee 8" PVC Granular Fill Surveying Construction Staking  SIDEWALKS Concrete Accessible Curb Ramp with Truncated Domes Concrete Sidew alk with Aggregate Retaining Wall Gutter Sw ale Surveying Construction Staking		1 4 274 254 353 158 128 502 1 1 1 1 3 3 3 14 3 3 3 14 3 3 14 3 1 3 1	EACH L.F. L.F. Ton L.S.  EACH EACH EACH EACH EACH EACH EACH EAC
15" Flared End Manhole  12" Class III RCP  15" Class III RCP  30" Class III RCP  36" Class III RCP  4" Perforated Underdrain Ganular Fill Surveying Construction Staking  WATER  20"x8" Split Mechanical Tapping Sleeve Connect to Existing 8" Water Main Remove Existing Fire Hydrant Fire Hydrant 6" Valve 8" Valve 8" Valve 8" Xa"x6" Tee 8"x8"x6" Tee 8" PUC Granular Fill Surveying Construction Staking  SIDEWALKS Concrete Accessible Curb Ramp with Truncated Domes Concrete Sidew alk with Aggregate Retaining Wall Gutter Sw ale Surveying Construction Staking  EROSION CONTROL Construction Entrance and Off-Street Parking Area		1 4 274 254 353 158 128 502 1 1 1 1 3 3 3 14 3 3 3 14 3 3 14 3 3 14 1 3 1 1 1 1	EACH L.F. L.F. Ton L.S.  EACH EACH EACH EACH EACH EACH EACH EAC
15" Flared End Manhole 12" Class III RCP 15" Class III RCP 30" Class III RCP 30" Class III RCP 36" Class III RCP 4" Perforated Underdrain Ganular Fill Surveying Construction Staking  WATER 20"x8" Split Mechanical Tapping Sleeve Connect to Existing 8" Water Main Remove Existing Fire Hydrant Fire Hydrant 6" Valve 8" Valve 8" Valve 8"x8"x6" Tee 8"x8"x6" Tee 8"x8"x8" Tee 8" PVC Granular Fill Surveying Construction Staking  SIDEWALKS Concrete Accessible Curb Ramp w ith Truncated Domes Concrete Sidew alk w ith Aggregate Retaining Wall Gutter Sw ale Surveying Construction Staking		1 4 274 254 353 158 128 502 1 1 1 1 3 3 3 14 3 3 14 3 3 14 3 1 1 1 1	EACH L.F. L.F. Ton L.S.  EACH EACH EACH EACH EACH EACH EACH EAC



ENGINEERS AUTHENTICATION

The responsibility for professional engineering liability on this project is hereby limited to the set of plans authenticated by the seal, signature, and date hereunder attached. Responsibility is disclaimed for all other engineering plans involved in this project and specifically excludes revisions after this date unless reauthenticated.

STEVEN D. MARION P.E.

PROFESSIONAL ENGINEER

PE 2006007195

SOUTH RIDGE SHOPPES, L.L.C.
OLD HIGHWAY N ROAD IMPROVEMENTS
8298 HWY N
O'FALLON, MO
NEIL KERSTEN
16761 CONCORD HILL
MARTHASVILLE, MO 63357

) - <i>i</i>		Sheet 17th	2-(		12-20 REVISIONS PER CITY COMMENTS	:24-20 REVISIONS PER CITY COMMENTS	2. 04-08-20 REVISIONS PER CITY'S COMMENTS	# KeVISION Date Description of Changes	2-03-2	20-20 -08-20 -08-20 -12-20 -12-20
		2-0						REVISIONS PER CITY'S COMMENTS REVISIONS PER CITY COMMENTS REVISIONS PER CITY COMMENTS REVISIONS PER CITY COMMENTS		
		2-0					3. 04-24-20 REVISIONS PER CITY COMMENTS 4. 05-12-20 REVISIONS PER CITY COMMENTS	REVISIONS PER CITY'S COMMENTS REVISIONS PER CITY COMMENTS REVISIONS PER CITY COMMENTS REVISIONS PER CITY COMMENTS		
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Number Q-1

3,303 S.F.

 Project No.
 168305

 Drawn By
 A. JONES

 Checked By
 J.WINTERS

NOT RELEASED FOR CONSTRUCTION