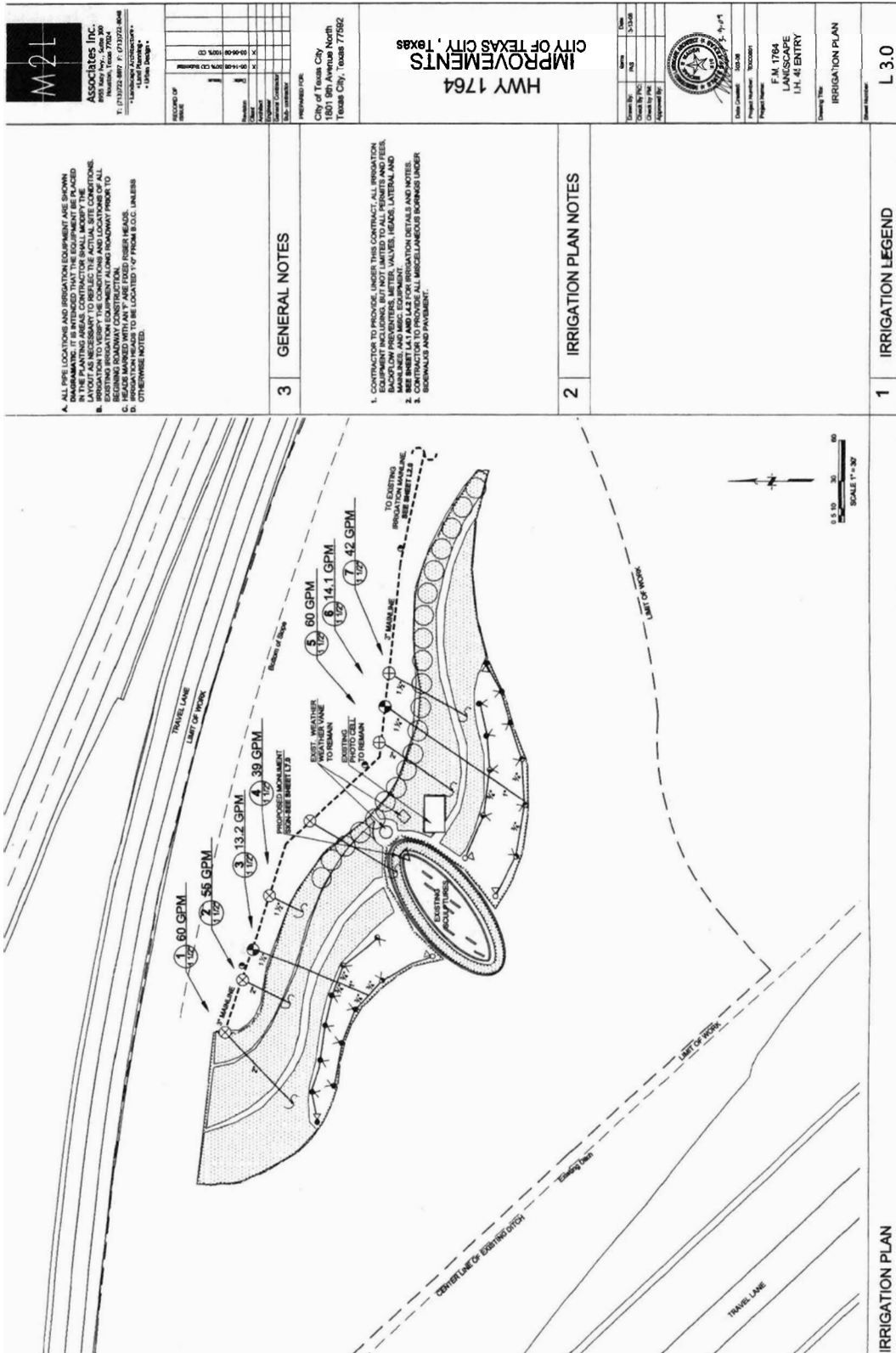








Exhibit B




4. ALL PIPE LOCATIONS AND IRRIGATION EQUIPMENT ARE SHOWN IN THE PLANTING AREAS. CONTRACTOR SHALL VERIFY THE LAYOUT AS NECESSARY TO REFLECT THE ACTUAL SITE CONDITIONS. CONTRACTOR SHALL VERIFY THE LAYOUT OF ALL EXISTING IRRIGATION EQUIPMENT ALONG ROADWAY PRIOR TO CONSTRUCTION. CONTRACTOR SHALL VERIFY THE LAYOUT OF ALL IRRIGATION HEADS TO BE LOCATED 1' FROM B.O.C. UNLESS OTHERWISE NOTED.

3 GENERAL NOTES

1. CONTRACTOR TO PROVIDE, UNDER THIS CONTRACT, ALL IRRIGATION EQUIPMENT INCLUDING, BUT NOT LIMITED TO ALL PERMITS AND FEES, BACKFLOW PREVENTERS, METERS, VALVES, HEADS, LATERAL AND MAINLINE. CONTRACTOR SHALL VERIFY THE LAYOUT OF ALL IRRIGATION HEADS TO BE LOCATED 1' FROM B.O.C. UNLESS OTHERWISE NOTED.

2 IRRIGATION PLAN NOTES

1 IRRIGATION LEGEND



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\*Landscape Architecture\*  
\*Irrigation Design\*

**IMPROVEMENTS**  
HWY 1764  
CITY OF TEXAS CITY, TEXAS

City of Texas City  
1801 8th Avenue North  
Texas City, Texas 77582

Checked By:	AK
Checked By Date:	3/2/2018
Approved By:	[Signature]

City Engineer: [Signature]  
Date: 3/2/2018  
Project Number: 17020000  
F.M. 1764  
LANESCAPE  
I.H. 4: ENTRY  
Drawing Title: IRRIGATION PLAN  
Sheet Number: L 3.0



Exhibit B



**M2L**  
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www.m2linc.com  
"Landscape Architecture"  
"Landscape Architecture"  
"Landscape Architecture"

NO.	DESCRIPTION	DATE	BY	CHKD.
1	ISSUED FOR PERMITS	10/15/18	MM	MM
2	ISSUED FOR PERMITS	10/15/18	MM	MM
3	ISSUED FOR PERMITS	10/15/18	MM	MM
4	ISSUED FOR PERMITS	10/15/18	MM	MM
5	ISSUED FOR PERMITS	10/15/18	MM	MM
6	ISSUED FOR PERMITS	10/15/18	MM	MM
7	ISSUED FOR PERMITS	10/15/18	MM	MM
8	ISSUED FOR PERMITS	10/15/18	MM	MM
9	ISSUED FOR PERMITS	10/15/18	MM	MM
10	ISSUED FOR PERMITS	10/15/18	MM	MM
11	ISSUED FOR PERMITS	10/15/18	MM	MM
12	ISSUED FOR PERMITS	10/15/18	MM	MM
13	ISSUED FOR PERMITS	10/15/18	MM	MM
14	ISSUED FOR PERMITS	10/15/18	MM	MM
15	ISSUED FOR PERMITS	10/15/18	MM	MM
16	ISSUED FOR PERMITS	10/15/18	MM	MM
17	ISSUED FOR PERMITS	10/15/18	MM	MM
18	ISSUED FOR PERMITS	10/15/18	MM	MM
19	ISSUED FOR PERMITS	10/15/18	MM	MM
20	ISSUED FOR PERMITS	10/15/18	MM	MM

PREPARED FOR:  
City of Texas City  
1801 9th Avenue North  
Texas City, Texas 77592

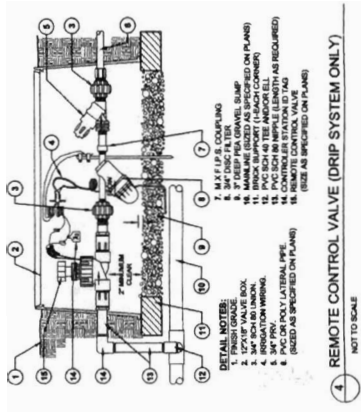
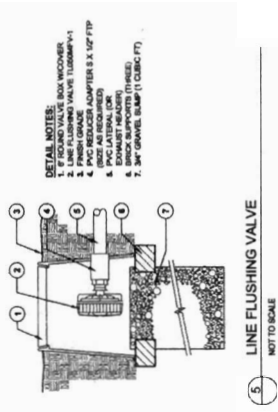
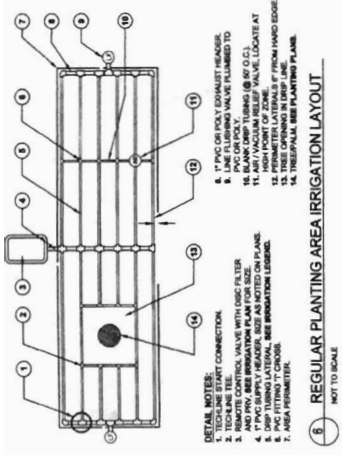
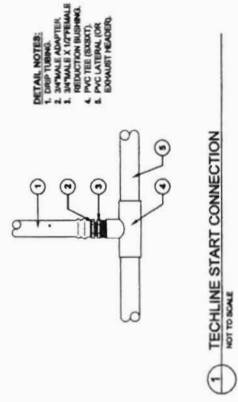
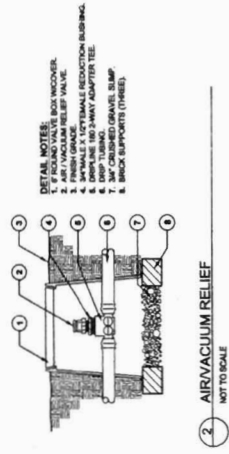
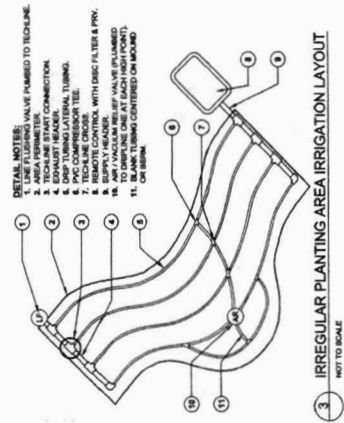
**HWY 1764  
IMPROVEMENTS  
CITY OF TEXAS CITY, TEXAS**

Drawn By:	MM
Checked By:	MM
Approved By:	MM
Date:	10/15/18

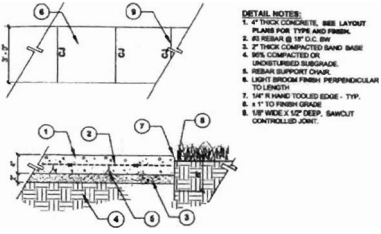
Drawn: 10/15/18  
Project Number: 17030001  
F.M. 1764  
LANDSCAPE  
I.H. 45 ENTRY

Sheet Title:  
IRRIGATION DETAILS II

Sheet Number:  
L 4.2

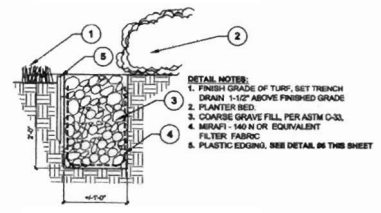






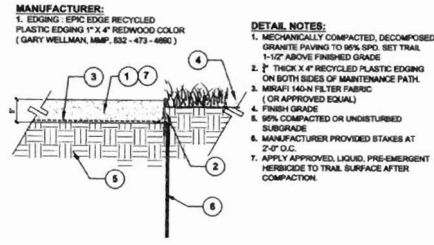
**DETAIL NOTES:**  
 1. 4" THICK CONCRETE, SEE LAYOUT PLANS FOR TYPE AND FINISH.  
 2. REBAR @ 18" O.C. B/W.  
 3. 2" THICK COMPACTED SAND BASE.  
 4. 3/8" COMPACTED OR UNDISTURBED SUBGRADE.  
 5. REBAR SUPPORT CHAIR.  
 6. LIGHT BROOM FINISH PERPENDICULAR TO LENGTH.  
 7. 5/8" R HAND TOoled EDGE - TYP.  
 8. 1" TYP TO FINISH GRADE.  
 9. 1/2" WIDE X 1/2" DEEP, SAWCUT CONTROLLED JOINT.

9 CONCRETE MAINTENANCE PATH  
NOT TO SCALE



**DETAIL NOTES:**  
 1. FINISH GRADE OF TURF, SET TRENCH DRAIN 1-1/2" ABOVE FINISHED GRADE.  
 2. PLANTING BED.  
 3. COMPACT GRAVEL FILL, PER ASTM C-33.  
 4. 160# 140# OR EQUIVALENT FILTER FABRIC.  
 5. PLASTIC EDGING, SEE DETAIL #6 THIS SHEET.

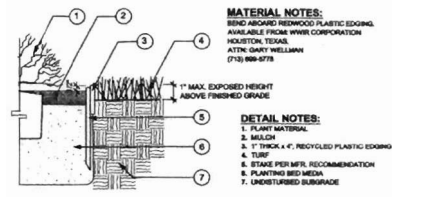
8 GRAVEL TRENCH DRAIN EDGE  
NOT TO SCALE



**MANUFACTURER:**  
 1. EDGING: EPIC EDGE RECYCLED PLASTIC EDGING 1" X 4" REDWOOD COLOR (GARY WELLMAN, MBP, 832-473-4990)

**DETAIL NOTES:**  
 1. MECHANICALLY COMPACTED, DECOMPOSED GRANITE PAVING TO 90% SPO, SET TRAIL 1-1/2" ABOVE FINISHED GRADE.  
 2. 1/2" THICK X 4" RECYCLED PLASTIC EDGING ON BOTH SIDES OF MAINTENANCE PATH.  
 3. 160# 140# FILTER FABRIC (OR APPROVED EQUAL).  
 4. FINISH GRADE.  
 5. 90% COMPACTED OR UNDISTURBED SUBGRADE.  
 6. MANUFACTURER PROVIDED STAKES AT 20" O.C.  
 7. APPLY APPROVED LIQUID, PRE-EMERGENT HERBICIDE TO TRAIL SURFACE AFTER COMPACTION.

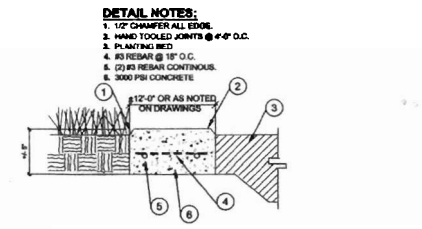
7 DECOMPOSED GRANITE PATH  
NOT TO SCALE



**MATERIAL NOTES:**  
 1. 1/2" MAX. EXPOSED HEIGHT ABOVE FINISHED GRADE.  
 2. MULCH.  
 3. 1" THICK X 4" RECYCLED PLASTIC EDGING.  
 4. TURF.  
 5. STAKE PER MFR. RECOMMENDATION.  
 6. PLANTING BED MEDIA.  
 7. UNDISTURBED SUBGRADE.

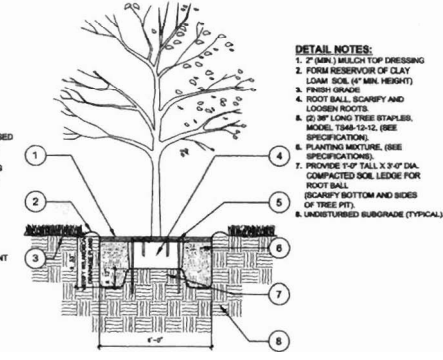
**DETAIL NOTES:**  
 1. PLANT MATERIAL.  
 2. MULCH.  
 3. 1" THICK X 4" RECYCLED PLASTIC EDGING.  
 4. TURF.  
 5. STAKE PER MFR. RECOMMENDATION.  
 6. PLANTING BED MEDIA.  
 7. UNDISTURBED SUBGRADE.

6 EDGING @ PLANTING BED EDGE  
NOT TO SCALE



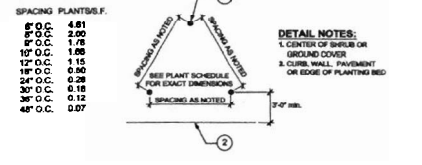
**DETAIL NOTES:**  
 1. 1/2" CHAMFER ALL EDGES.  
 2. HAND TOoled JOINTS @ 4'-0" O.C.  
 3. PLANTING BED.  
 4. 3/8" REBAR @ 18" O.C.  
 5. (2) 3/8" REBAR CONTINUOUS.  
 6. 3000 PSI CONCRETE.

5 12" WIDE CONCRETE MAINTENANCE STRIP  
NOT TO SCALE



**DETAIL NOTES:**  
 1. 2" (MIN.) MULCH TOP DRESSING.  
 2. FORMAL RESERVOIR OF CLAY LOAM SOIL (4" MIN. HEIGHT).  
 3. FINISH GRADE.  
 4. ROOT BALL, SCARPY AND LOGGERS ROOTS.  
 5. 2" (3/4" LONG TREE STAPLES, MODEL T348-12-12, (SEE SPECIFICATIONS)).  
 6. PLANTING MIXTURE, (SEE SPECIFICATIONS).  
 7. PROVIDE 1/4" TALL X 3/4" DIA. COMPACTED SOIL LEDEGE FOR ROOT BALL (SCARPY BOTTOM AND SIDES OF TREE PIT).  
 8. UNDISTURBED SUBGRADE (TYPICAL).

4 TREE PLANTING DETAIL (TREE STAPLES)  
NOT TO SCALE

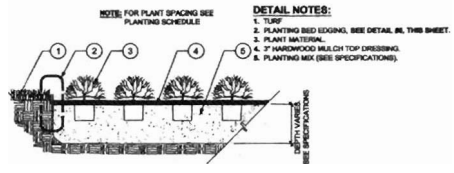


**SPACING PLANTING F.**

8" O.C.	4.81
10" O.C.	2.92
12" O.C.	1.78
14" O.C.	1.06
16" O.C.	0.75
18" O.C.	0.56
24" O.C.	0.28
30" O.C.	0.18
36" O.C.	0.12
48" O.C.	0.07

**DETAIL NOTES:**  
 1. CENTER OF SHRUB OR GROUND COVER.  
 2. CURB, WALL, PAVEMENT OR EDGE OF PLANTING BED.  
 3. 7'-0" MIN.

3 SHRUB & GROUND COVER SPACING DIAGRAM  
NOT TO SCALE



**NOTE:** FOR PLANT SPACING SEE PLANTING SCHEDULE.

**DETAIL NOTES:**  
 1. TURF.  
 2. PLANTING BED EDGING, SEE DETAIL #6 THIS SHEET.  
 3. PLANT MATERIAL.  
 4. 3" HARDWOOD MULCH TOP DRESSING.  
 5. PLANTING MIX (SEE SPECIFICATIONS).

2 SHRUB & GROUND COVER PLANTING DETAIL  
NOT TO SCALE

**SHRUBS AND GRASSES**

SYMBOL	SCIENTIFIC NAME	COMMON NAME	SIZE/SPACING
AA	<i>Agave americana</i>	Century Plant	15 Gal.
AV	<i>Agave americana 'variegata'</i>	Variegated Century Plant	15 Gal.
CS	<i>Cortaderia selkiana 'jumbie'</i>	Pampas Grass	8 Gal @ 24" o.c.
LM	<i>Lantana montevidensis</i>	Purple Trailing Lantana	1 Gallon @ 24" o.c.
MC	<i>Muhlenbergia capillaris 'Nagar Mist'</i>	Gulf Coast Mubly	3 Gallon @ 30" o.c.
MD	<i>Muhlenbergia dumosa</i>	Bamboo	3 Gallon @ 30" o.c.
MS	<i>Miscanthus sinensis</i>	Japanese Silver Grass	1 Gallon @ 30" o.c.
NT	<i>Nassella tenuissima</i>	Mexican Feather Grass	1 Gallon @ 30" o.c.
LC	<i>Camptelasma chinensis</i>	Chinese Fing Tree	3 Gallon @ 42" o.c.
WT	<i>Wedelia villosa</i>	Wedelia	4" Pot @ 24" o.c.
WLD	Wildflowers	Island Whiteblossom (See Specifications)	Seeded by Ace

**TREES**

SYMBOL	SCIENTIFIC NAME	COMMON NAME	SIZE
LI	<i>Lagerstroemia indica 'Natchez'</i>	Natchez Crepe Myrtle	100 Gallon

1 PLANTING LIST  
NOT TO SCALE

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• Landscape Architecture •  
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RECORD OF REVISIONS

No.	Date	Revision

Prepared For:  
 City of Texas City  
 1801 9th Avenue North  
 Texas City, Texas 77562

**HWY 1764 IMPROVEMENTS CITY OF TEXAS CITY, TEXAS**

Exhibit B

Drawn By:	Name	Date

Date Created: 3-10-08  
 Project Number: TX020601

**F.M. 1764 LANDSCAPE LH. 45 ENTRY**

Drawing Title:  
 PLANTING DETAILS

Sheet Number:  
 L 6.0

