

INDEX OF SHEETS

SEE SHEETS 2 & 3

STATE OF TEXAS
TEXAS DEPARTMENT OF TRANSPORTATION

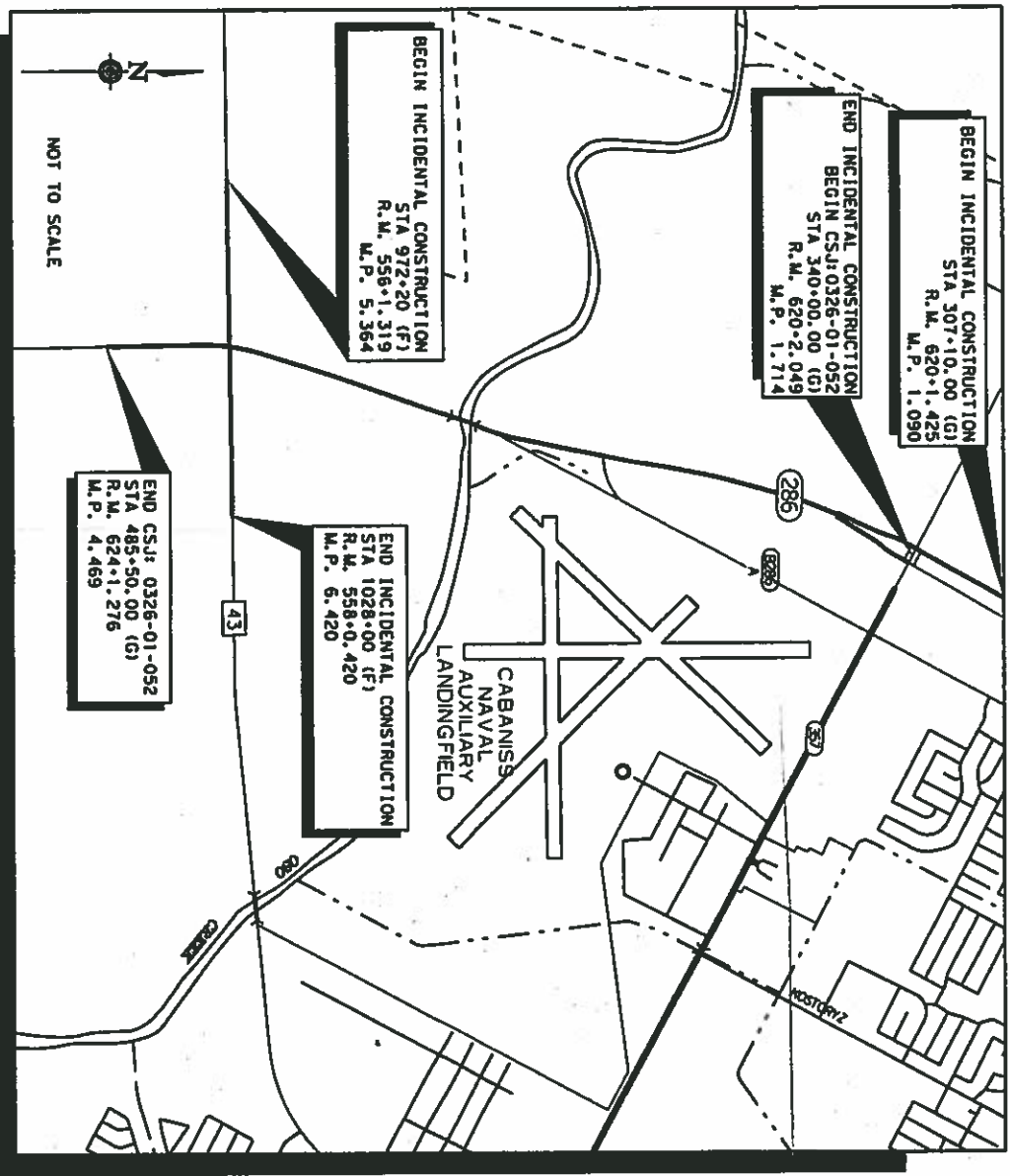
**PLANS OF PROPOSED
FEDERAL HIGHWAY IMPROVEMENT**

FEDERAL PROJECT NO. NH 2013(795)
CONTROL 0326-01-052
SH 286
NUECES COUNTY

CSJ 0326-01-052 LIMITS: FROM SH 357 TO 1 MI. S. OF FM 43
ROADWAY = 13,010' (2,464 MI)
BRIDGE = 1,540' (0.291 MI)

TOTAL PROJECT LENGTH = 14,550' (2.755 MI)

FOR THE EXTENSION OF EXISTING FREEWAY:
CONSISTING OF GRADING, BASE, STRUCTURES, SURFACING, SIGNING, PAVEMENT MARKINGS AND MARKERS



TDLR# EA8PRJ B3000204

COUNTY: NUECES
HWY. NO.: SH 286

PROJ. NO.: NH 2013(795)
LETTING DATE: JUNE 2013



THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ON SHEET 2 WITH AN (*) HAVE BEEN ISSUED BY ME AND ARE APPLICABLE TO THIS PROJECT.

Jason J. Lambert
PROJECT MANAGER, P. E.
3/2/13
DATE

STATE	TX	FEDERAL PROJECT NO.	NH 2013(795)	SHEET	1
COUNTY	NUECES	SECTION	052	DATE	3/2/13
PROJECT	0326	DATE	01	PROJECT	SH 286

DESIGN SPEED = 70 MPH (MAIN LANES)
4R DESIGN GUIDELINES
TOLR REVIEW REQUIRED
URBAN FREEWAY

TRAFFIC DATA (MAIN LANES)	
EXIST ADT (2013)	11,800
DESIGN ADT (2033)	18,700
PERCENT TRUCKS IN DHV	4.9
DIRECTIONAL DISTRIBUTION (%)	51-49
PERCENT TRUCKS IN ADT	6.5
FLEXIBLE 18-KESAL'S	2,491,000

ATTACHMENT "A"
SHEET 1 OF 9

© 2013
TEXAS DEPARTMENT OF TRANSPORTATION

RECOMMENDED FOR LETTING: *March 21* 2013
DIRECTOR, TRANSPORTATION PLANNING & DEVELOPMENT

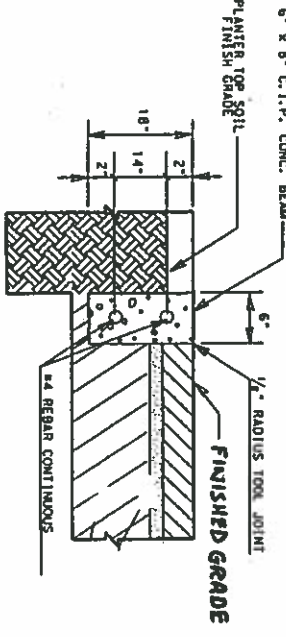
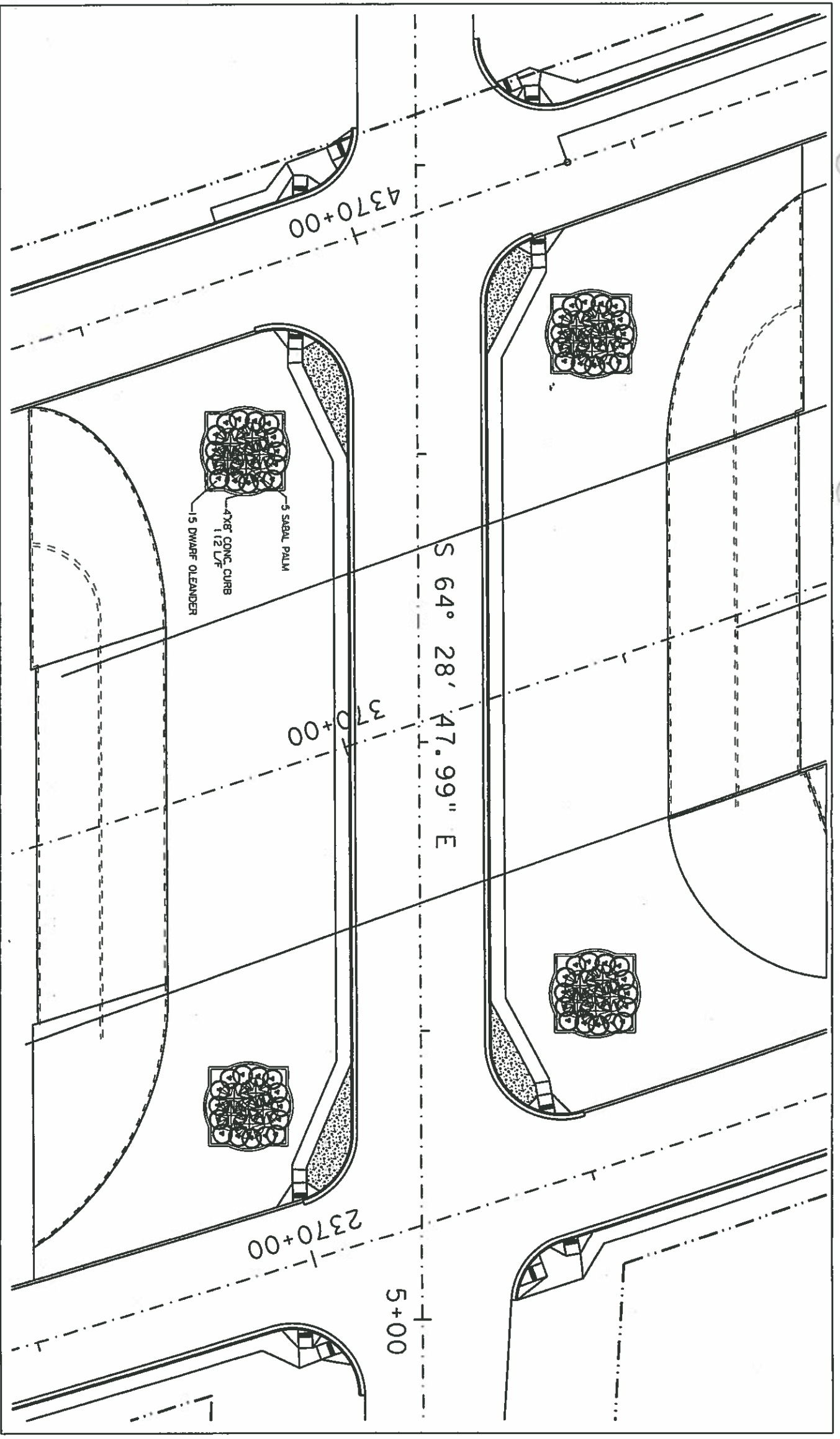
APPROVED FOR LETTING: *[Signature]*
DIRECTOR, TRAFFIC OPERATIONS DIVISION

RECOMMENDED FOR LETTING: *March 21* 2013
DIGITALITY ENGINEER

APPROVED FOR LETTING: *[Signature]*
DIRECTOR, DESIGN DIVISION

EQUATIONS: NONE
EXCEPTIONS: NONE
RAILROAD CROSSING: NONE

SPECIFICATIONS ADOPTED BY THE TEXAS DEPARTMENT OF TRANSPORTATION JUNE 1, 2004, AND SPECIFICATION ITEMS LISTED AND DATED AS FOLLOWS SHALL GOVERN ON THIS PROJECT: REQUIRED CONTRACT PROVISIONS FOR ALL FEDERAL-AID CONSTRUCTION CONTRACTS (FORM FHMA 1273, MAY 2012).



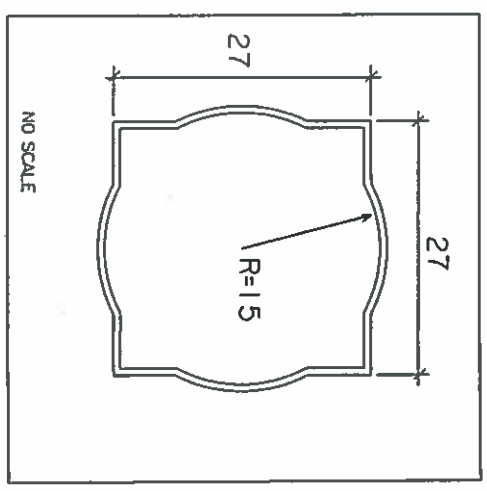
- NOTES:
1. EDGE TREATMENT SHOULD BE AS STRAIGHT AS POSSIBLE TO COMPLETE THE ALIGNMENT OF FINISHED GRADE.
 2. ALL EDGE TREATMENT MUST BE VERTICAL TO ALLOW CLOSE FIT OF FINISHED GRADE.
 3. RELIEF TOOL FOR CONCRETE EDGE SHALL BE AS SMALL AS POSSIBLE (1/8").

ALL MATERIALS AND LABOR SHALL BE CONSIDERED SUBSIDIARY TO THE ITEM "529 CONCRETE CURB".
CONC EDGE DETAIL AT PLANTERS
N.T.S.

ESTIMATED SHEET TOTALS
ITEM 192 PLANTING

COMMON NAME	SCIENTIFIC NAME	QTY.
SABAL PALM	SABAL MEXICANA	20
DWARF OLEANDER	NERIUM OLEANDER PETITE PINK	60

ESTIMATED SHEET TOTALS	QTY./LF
4\"/>	



2013
Department of Transportation
SH 286 &
J. C. ELLIOT
LANDSCAPE LAYOUT

ATTACHMENT "A"
SHEET 2 OF 9

PLAN 1:40'

SHEET 1 OF 1

FILE NO.	PROJECT NO.	SHEET
16	NH 2013 (795)	775
STATE	DIST.	COUNTY
TEXAS	CRP	NECES
CONTRACT	SECT.	VIOLATION NO.
0326	01	SH 286

REGISTERED LANDSCAPE ARCHITECT
STEPHEN B. WALKER
STATE OF TEXAS
177A

STATE OF TEXAS
177A

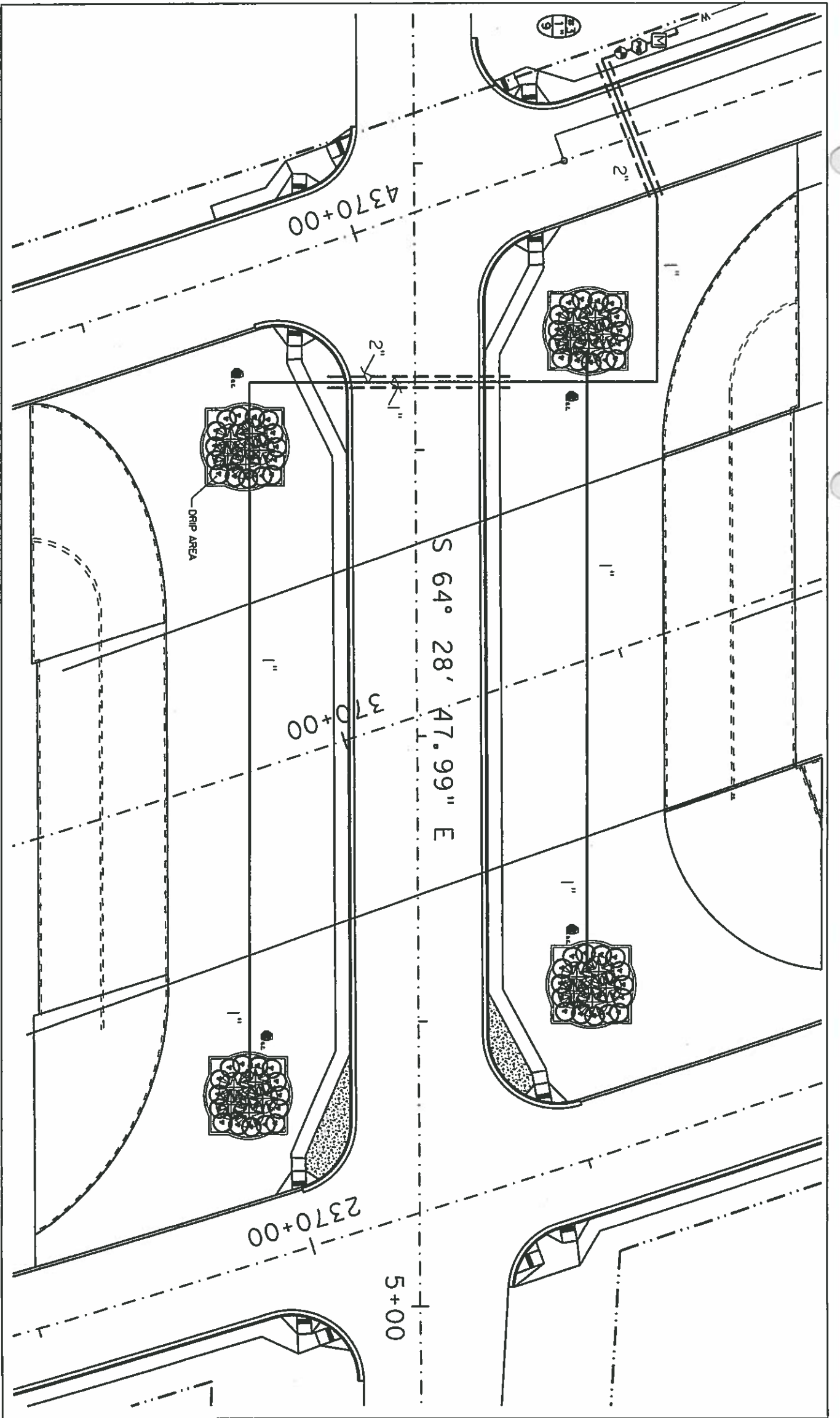
REGISTERED LANDSCAPE ARCHITECT
STEPHEN B. WALKER
STATE OF TEXAS
177A

REGISTERED LANDSCAPE ARCHITECT
STEPHEN B. WALKER
STATE OF TEXAS
177A



*WATER TO EACH PLANT

COMMON NAME	GPM
PALM	1.4
DWARF OLEANDER	1.0



- LEGEND OF IRRIGATION SYMBOLS
- 1" PVB BACK FLOW
 - 5/8" WATER METER
 - REMOTE CONTROL VALVE WITH CONTROLLER
 - QUICK COUPLING VALVE
 - MAINLINE
 - EXISTING CITY MAIN
 - BORING UNDER ROADWAY
 - 2" SCH 40 SLEEVE

Department of Transportation
2013

**SH 286 &
J. C. ELLIOT
IRRIGATION LAYOUT**

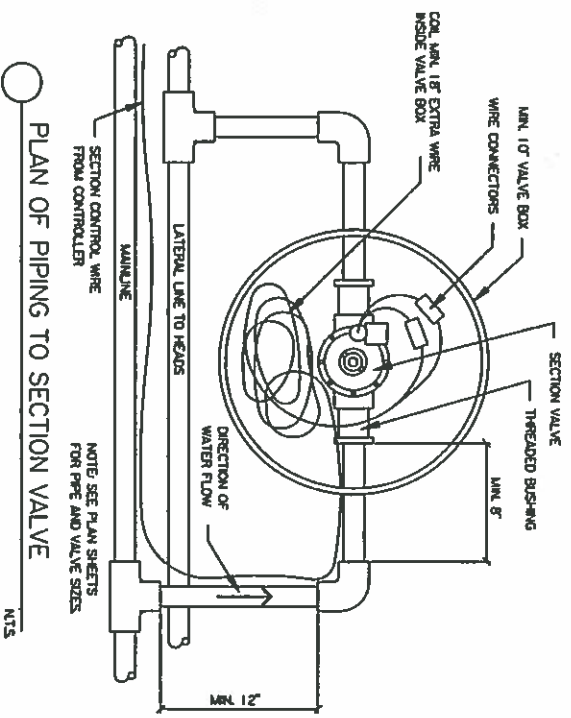
**ATTACHMENT "A"
SHEET 3 OF 9**

PLAN SCALE: 1"=40'
SHEET 1 OF 1

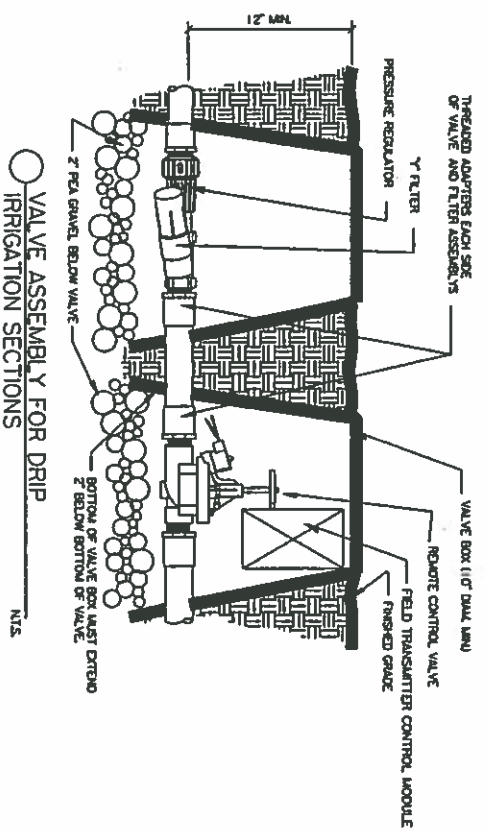
PROJECT NO.	16	DATE	03/26
PROJECT NAME	NH 2013 (795)	PROJECT NO.	776
STATE	TEXAS	COUNTY	NIUECES
DIST.	CRP	SECT.	01
JOB	052	PROJECT NO.	SH 286



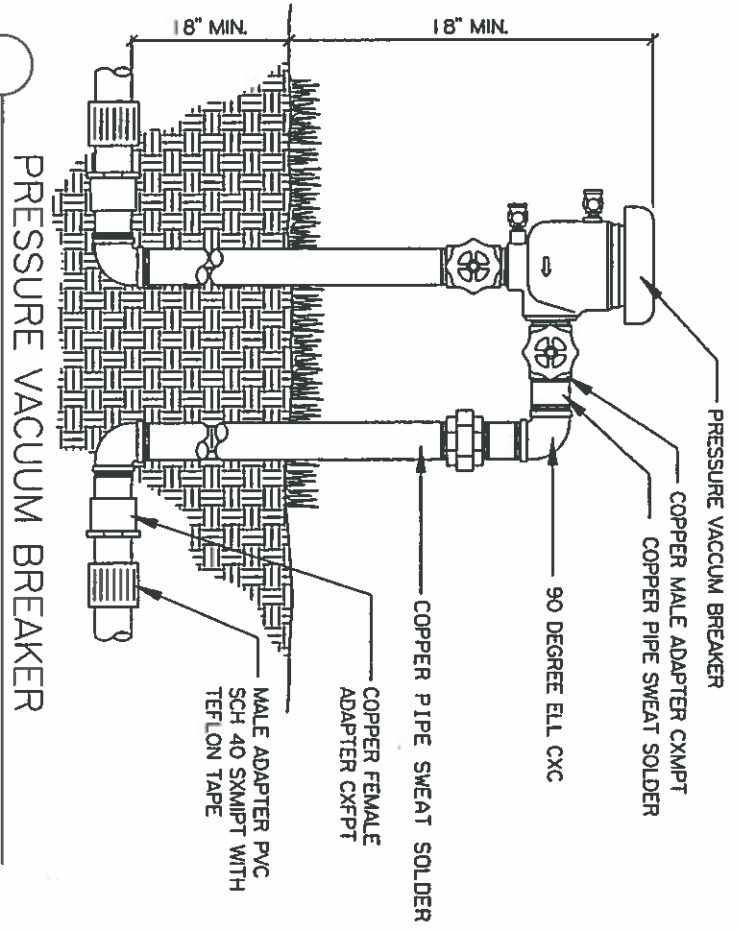
REGISTERED LANDSCAPE ARCHITECT
STEPHEN B. WALKER
STATE OF TEXAS
LICENSE NO. 1774



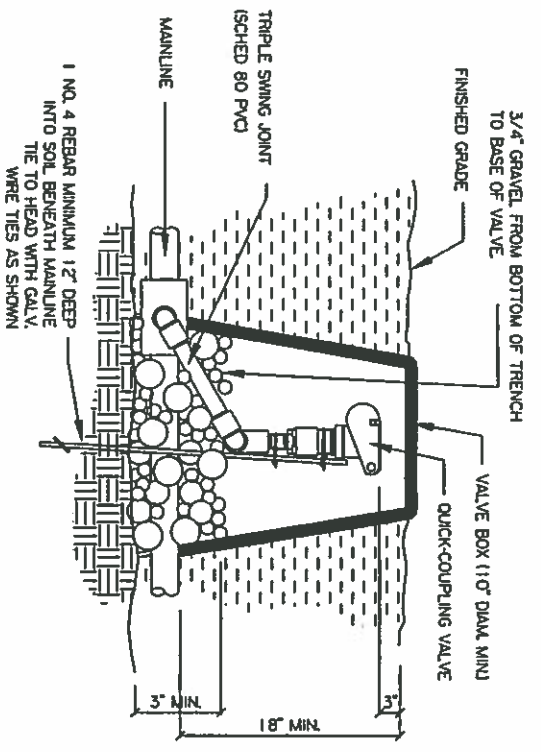
PLAN OF PIPING TO SECTION VALVE
NTS



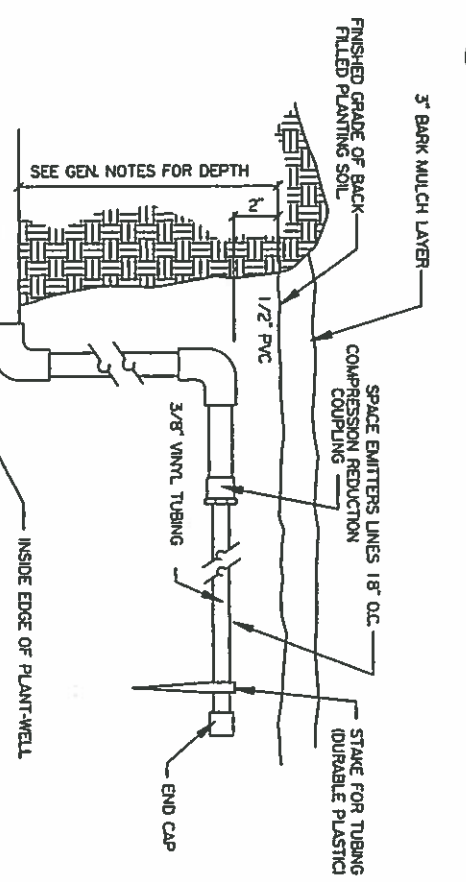
VALVE ASSEMBLY FOR DRIP IRRIGATION SECTIONS
NTS



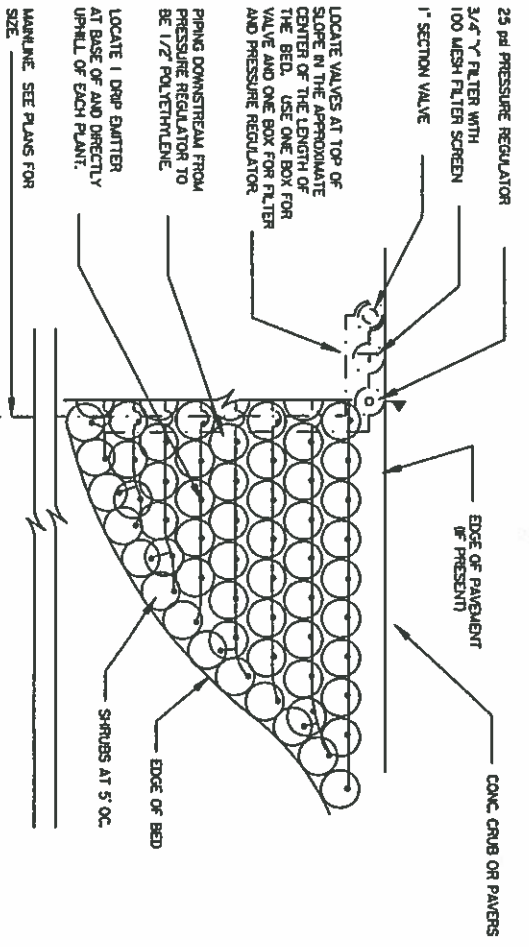
PRESSURE VACUUM BREAKER
NTS



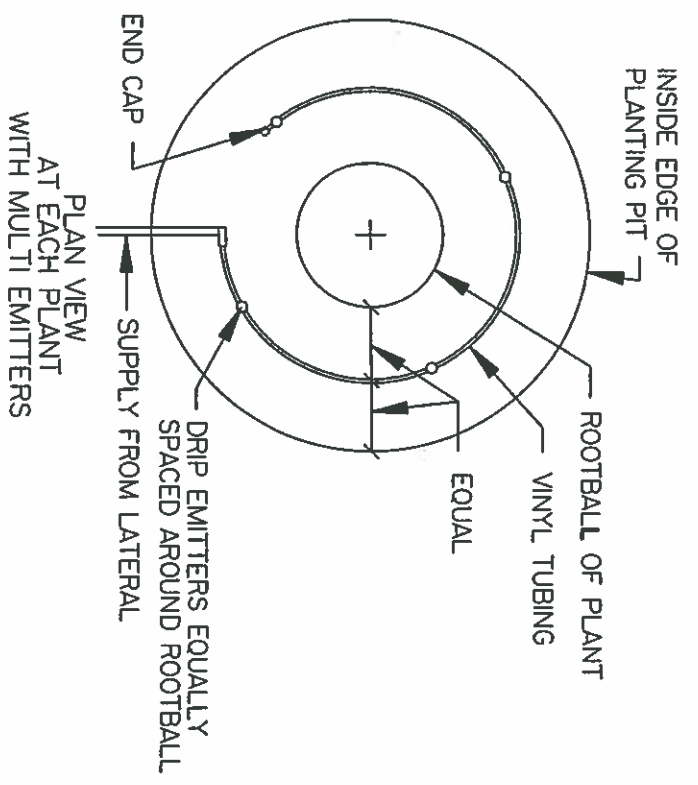
QUICK-COUPLING VALVE
NTS



INSTALLATION OF DRIP TUBING
NTS

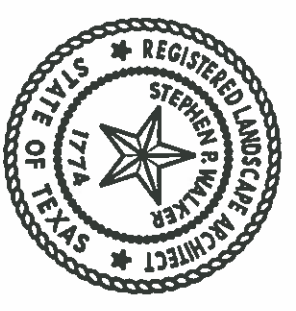


DRIP IRRIGATION 18" O.C. LAYOUT INSIDE SHRUB BEDS
NTS



PLAN VIEW AT EACH PLANT WITH MULTI EMITTERS
NTS

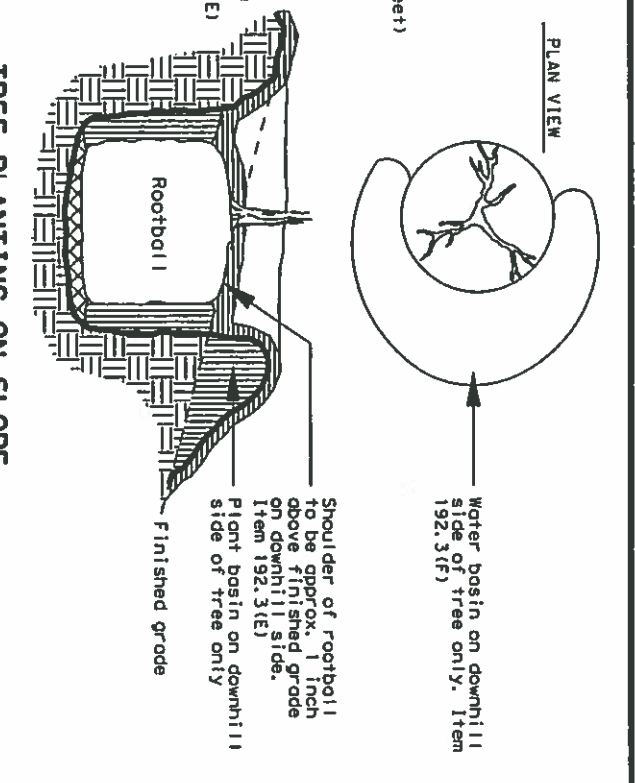
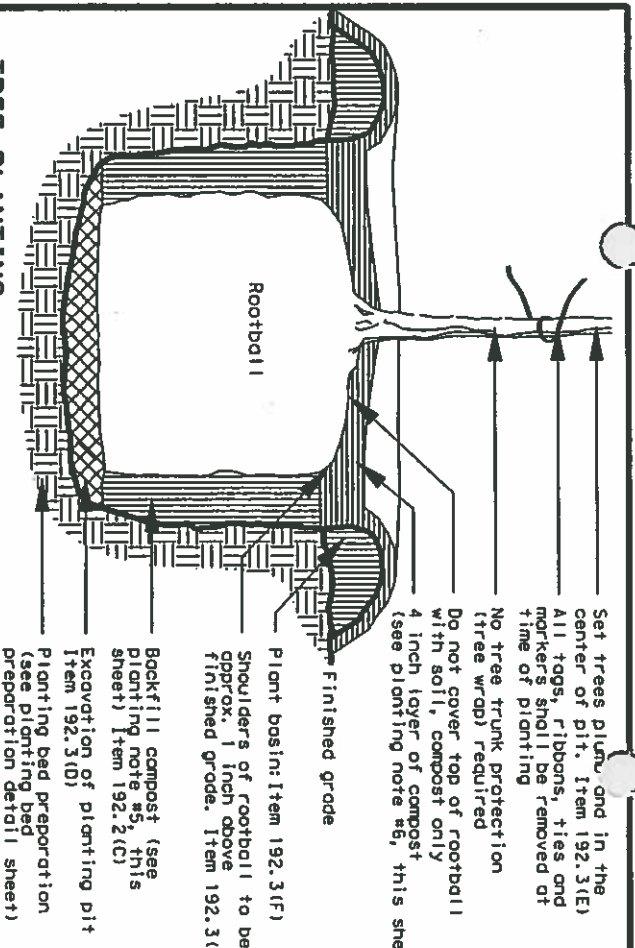
ATTACHMENT "A"
SHEET 4 OF 9



THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS,
P.O. BOX 12337, AUSTIN, TEXAS 78711-2337
TELEPHONE: 512-463-8800, FAX: 512-463-8801
WWW.TSBAE.TX.GOV
PRACTICES OF PERSONS REGISTERED AS LANDSCAPE ARCHITECTS IN TEXAS.
Stephen R. Walker
STEPHEN R. WALKER L.A.
DATE
SHEET 1 OF 1

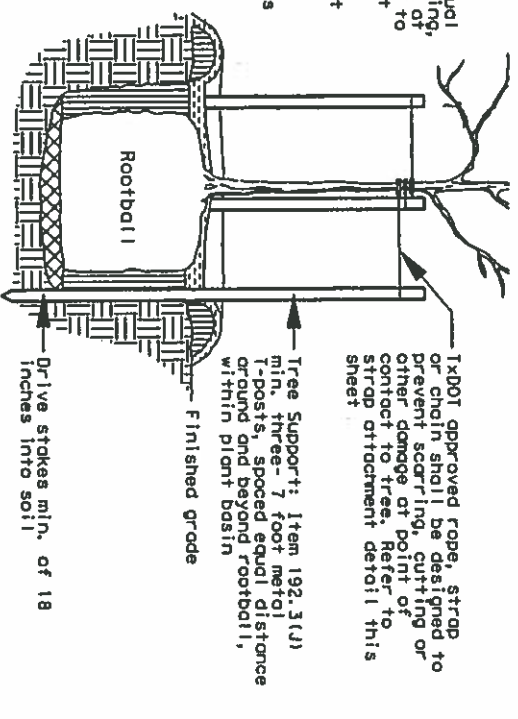
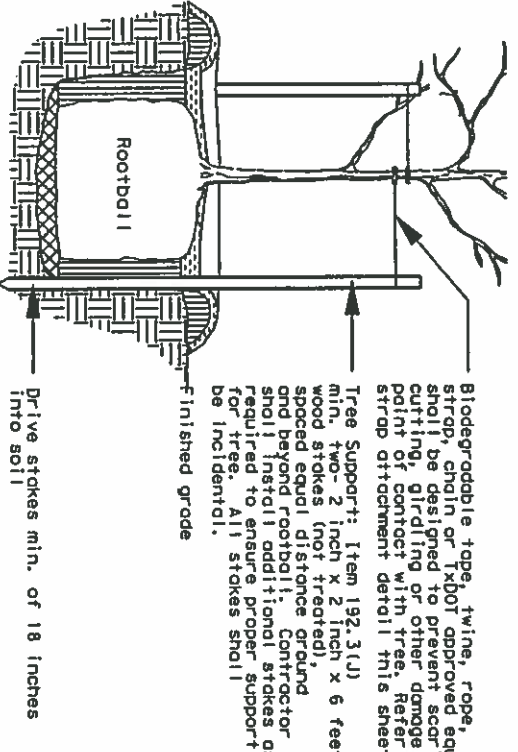
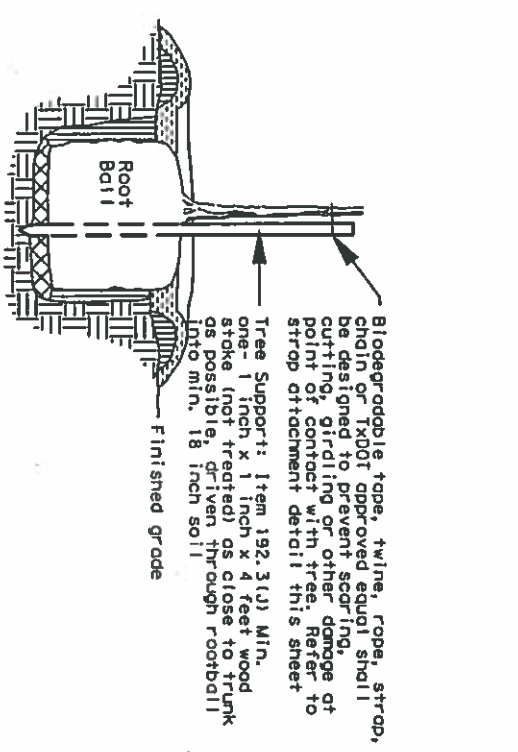
Texas Department of Transportation
LANDSCAPE IRRIGATION
DETAILS
© TxDOT 2013

PROJECT NO.	7777
STATE	NH 2013 (795)
DIST.	CONC. SECT. JOB
COUNTY	16
DATE	NOV 05 2013
DESIGNER	NUEGES 0326 01 0521 SH 286



TREE PLANTING

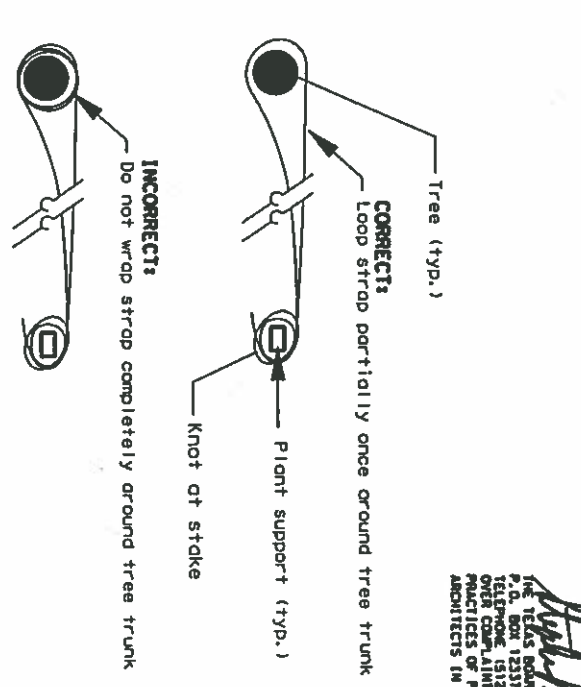
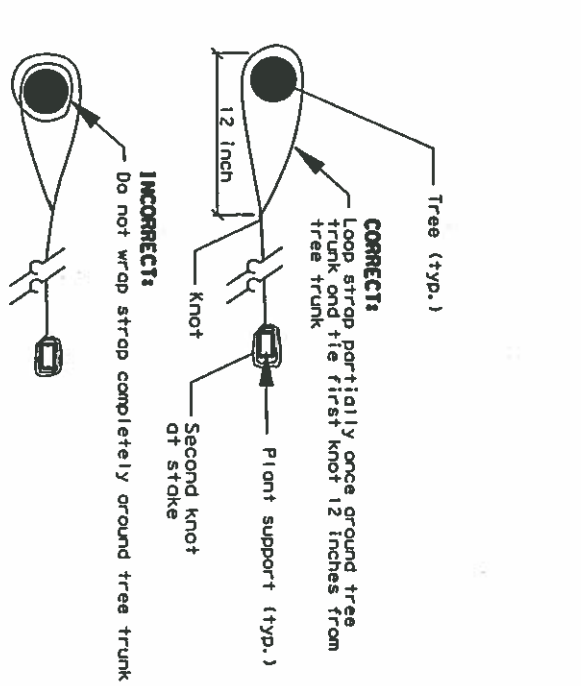
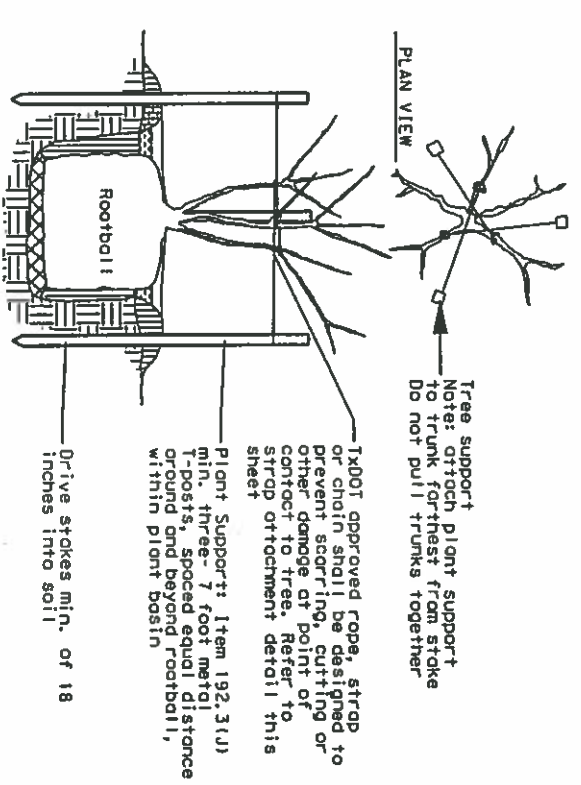
TREE PLANTING ON SLOPE



TREE SUPPORT - 1 GALLON

TREE SUPPORT - 3 TO 15 GALLON

TREE SUPPORT - LARGER THAN 15 GALLON



TREE SUPPORT - MULTI-TRUNKED

STRAP ATTACHMENT - 10 TO 65 GALLON

STRAP ATTACHMENT - 1 TO 7 GALLON

VEGETATIVE WATERING SCHEDULE FOR SHRUBS		
PHASE	ITEM DESCRIPTION	RATE
Construction/Installation	Watering will be provided by the irrigation system. If the automatic system is unavailable, water shall be provided by other means to meet watering requirements of the contractor's expense.	2 times plant container gallon size per plant
Operations, Item 192.3(G)	90-day Establishment Period, Item 192.3(O)(1)	JANUARY through DECEMBER Some days as planting with 2 days minimum between waterings

NOTES:
Rate and frequency may be adjusted to meet site conditions and weather as approved or directed by Engineer.
Refer to Item 168.2 for water quality information.

Plants which will have an automatic irrigation system shall not be installed until appropriate irrigation section valve assembly and quick coupler devices are operable. At time of installation all plants shall be watered-in manually the same day as planting at a rate and frequency shown above. Irrigation emission device shall be installed immediately after plant installation. Water delivered through irrigation system shall be paid according to general irrigation notes on Irrigation Details Sheet(s).
Irrigation plant material will be rejected according to Item 192.2(B) and replaced at Contractor's expense.

PLANTING NOTES:

- Contractor shall be responsible for referencing Item 192 of the Texas Standard Specifications for Construction and Maintenance of Highways Streets and Bridges 2004 for specifications dimensions, volumes and measurements that have been modified or not shown.
- Reflection of plants shall be in accordance with Item 192.2(B).
- Contractor shall verify that all planting meets the following clear zone minimum standards unless specified on plans: trees: 30 feet from edge of travel; 15 feet from edge of travel; shrubs: 15 feet from edge of travel; vines and groundcover: no min. distance. If protected by barrier, the engineer shall determine the distance that shall be considered minimum. Roadway edges shown on the plans are to be considered otherwise.
- All locations of trees, shrubs and beds shall be staked in the field by the contractor. In accordance with Item 192.3(C) Backfill shall be of the following: 70% existing soil removed from the plant pit, 30% general use compost as described in Special Specification Item 161 Compost and shall be incidental.
- Compost for surface application for tree planting shall be general use compost as described in Special Specification Item 161 Compost.
- Compost for surface application for tree planting shall be general use compost as described in Special Specification Item 161 Compost.
- Compost for tree planting shall be incidental and not paid for separately. Areas with compost for surface application shall be maintained in accordance with Item 192.3(O)(3).

Handwritten signature: Stephen P. Walker

REGISTERED LANDSCAPE ARCHITECT
STEPHEN P. WALKER
STATE OF TEXAS
177A

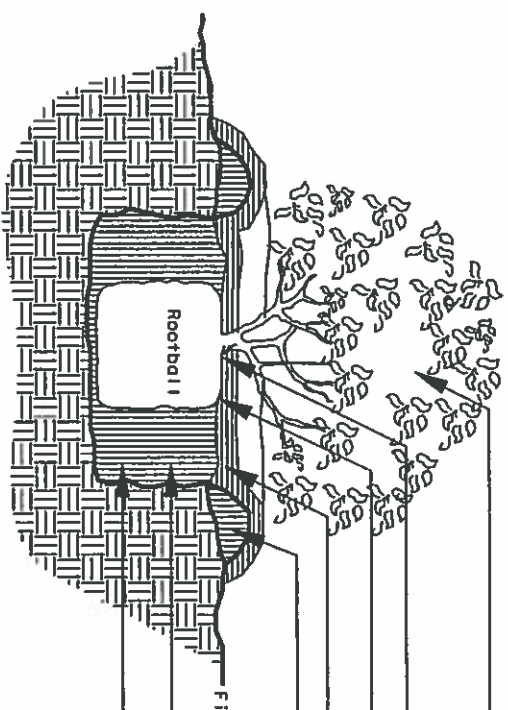
Texas Department of Transportation
© 2008
ATTACHMENT "A"
SHEET 5 OF 9
PLANTING AND ESTABLISHMENT
SHEET 1 OF 5

Details not to scale

FILE	STATE	STATE AID PROJECT NUMBER	SHEET
6	TEXAS	SM 2013 179A1	77B
DIST	COUNTY	CONTROL SECT	JOB
16	ADDRESS	0258	01
			02
			SM 285

TREE

FOR 10-65 GALLON TREES ONLY



Set shrub plumb and in the center of pit. Item 192.3(E)

Do not cover top of rootball with soil, compost only

Shoulders of rootball to be approx. 1 inch above finished grade. Item 192.3(E)

4 inch layer of compost (see planting note #6, this sheet)

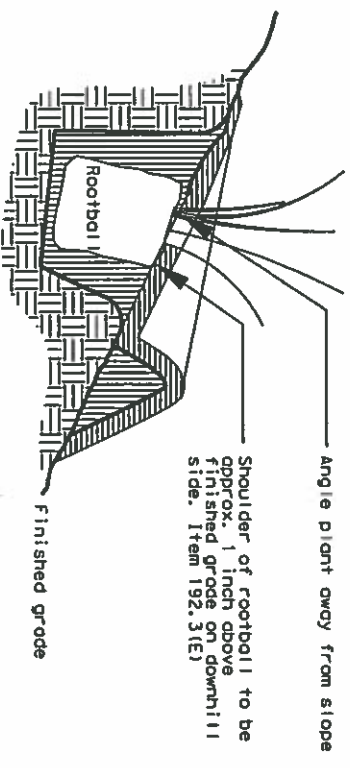
Finished grade

Plant Pit: Item 192.3(E)

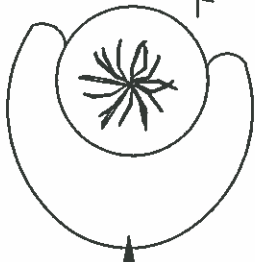
Backfill: compost (see planting note #5, this sheet) Item 192.2(C)

Plant Pit: Item 192.3(E)

SHRUB AND VINE PLANTING

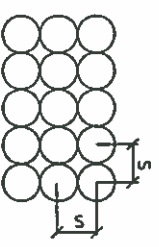


PLAN VIEW

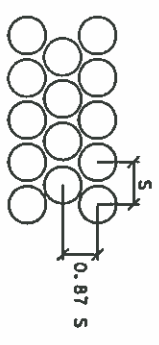


Water basin on downhill side of tree only. Item 192.3(F)

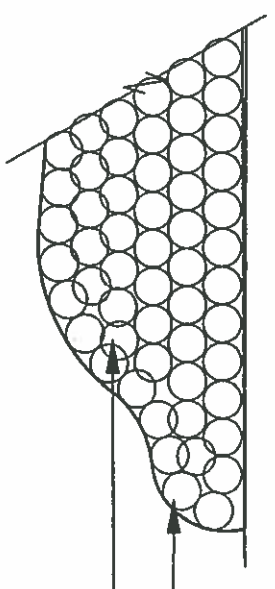
SHRUB AND VINE PLANTING ON SLOPES



5- Spacing as indicated on the plans. Square or triangular spacing will be shown by the placement of the plants on the drawing. The spacing will be called out in the plant label



TRIANGULAR SPACING



Plant edge of bed with one continuous row of shrubs
Less than specified spacing is allowed to infill odd spaces in bed

SHRUB AND VINE SPACING IN MASS PLANTING BEDS

VEGETATIVE WATERING SCHEDULE FOR TREES

PHASE	ITEM DESCRIPTION	FREQUENCY	RATE
Construction/Installation Operations, Item 192.3(O)	Watering will be provided by the irrigation system. If the automatic system is not provided by other means to meet watering requirements of the contractor's expense.	JANUARY through DECEMBER	Same day as planting and 2 times per week with 2 days minimum between waterings
90-day Establishment Period, Item 192.3(O) (1)			2 times plant container gallon size per plant

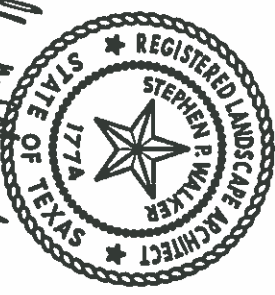
NOTES:
Rate and frequency may be adjusted to meet site conditions and weather as approved or directed by Engineer.
Refer to Item 166.2 for water quality information.

Plants which will have an automatic irrigation system shall not be installed until appropriate irrigation section valve assembly and quick coupler devices are operable. At time of installation all plants shall be watered-in manually the same day as planting at a rate and frequency shown above. Irrigation emission device shall be installed immediately after plant installation. Water delivered through irrigation system shall be paid according to general irrigation notes on Irrigation Details Sheet(s). Irrigation plant material will be rejected according to Item 192.2(B) and replaced at Contractor's expense.

PLANTING NOTES:

- Contractor shall be responsible for referencing Item 192 of the Texas Standard Specifications for Construction and Maintenance of Highways Streets and Bridges 2004 for specifications dimensions volumes and measurements that have been modified or not shown
- Rejection of plants shall be in accordance with Item 192.2(B)
- Contractor shall verify that all planting meets the following clear zone minimum standards unless specified on plans: trees: 30 feet from edge of travel lane unless protected by a barrier, shrubs: 15 feet from edge of travel lane unless protected by a barrier, vines and groundcover: no min. distance. If protected by barrier, the Engineer shall determine the distance that shall be considered minimum. Roadway edges shown on the plans are to be considered the edge of travel lane unless labeled otherwise
- All locations of trees, shrubs and beds shall be staked in the field by the contractor in accordance with Item 192.3(C)
- Backfill shall be of the following: 70% existing soil removed from the plant pit, 30% general use compost as described in Special Specification Item 161 Compost and shall be incidental
- Compost for surface application for shrub planting shall be general use compost as described in Special Specification Item 161 Compost
- Compost for surface application for shrub planting shall be incidental and not paid for separately. Areas with compost for surface application shall be maintained in accordance with Item 192.3(O) (3)

ATTACHMENT "A"
SHEET 6 OF 9



Stephen R. Walker
10/10/2012

Texas Department of Transportation
DESIGN DIVISION

PLANTING AND ESTABLISHMENT

SHEET 2 OF 5

Details not to scale SHRUB AND VINE

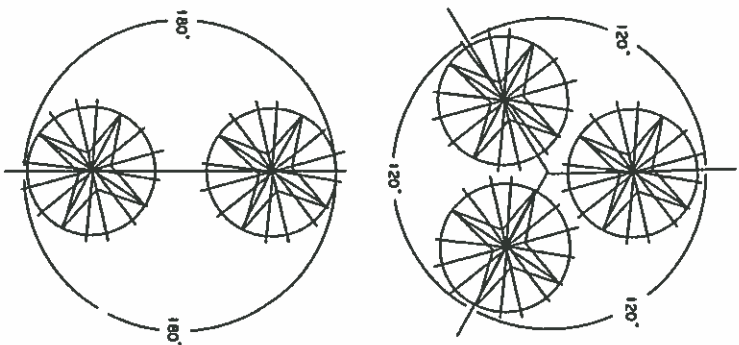
REV	DATE	STATE AID PROJECT NUMBER	SHEET
5	TEAS	HW 2013 (7981)	779
15	MOZES	0328	01

VEGETATIVE WATERING SCHEDULE FOR PALMS

ITEM DESCRIPTION	FREQUENCY	RATE
Construction/Installation operations, Item 192.3(6)	JANUARY through DECEMBER	2 times per week with 2 days minimum between waterings
Watering will be provided by the irrigation system, if the automatic system is provided by other means to meet other requirements of the contractor's expense.		2 times plant container gallon size per plant or 60 gallons per palm

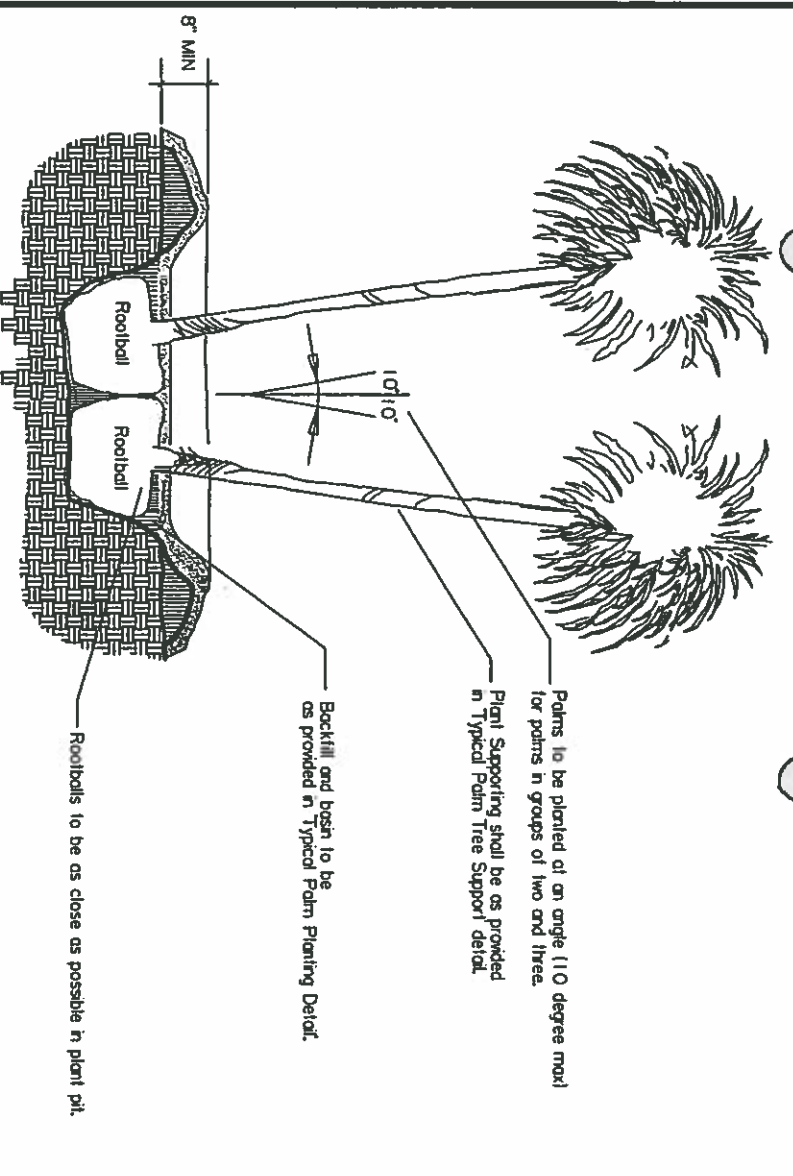
NOTES:
Rate and frequency may be adjusted to meet site conditions and weather as approved or directed by Engineer.
Refer to Item 188.2 for water quality information.

Plants which will have an automatic irrigation system shall not be installed until appropriate irrigation section valve assembly and quick coupler devices are operable. At time of installation all plants shall be watered-in manually the same day as planting at a rate and frequency shown above. Irrigation emission device shall be installed immediately after plant installation. Water delivered through irrigation system shall be paid according to general irrigation notes on Irrigation Detail Sheet (S).
Irrigation plant material will be rejected according to Item 192.2(B) and replaced at Contractor's expense.



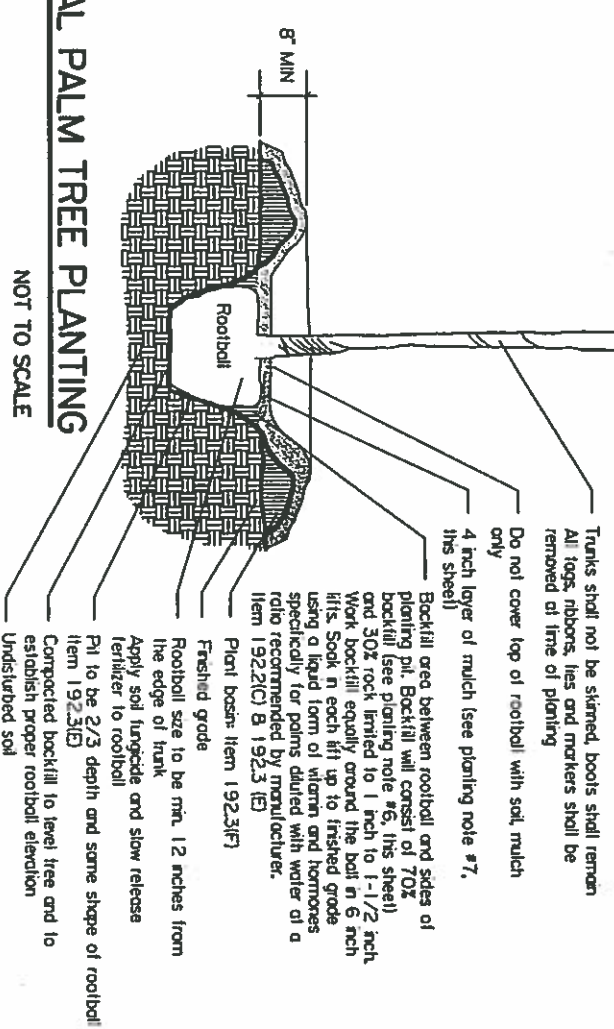
PALM TREE PLANTING (PLAN VIEW) IN CLUSTERS NOT TO SCALE

PALM TREE PLANTING IN CLUSTERS NOT TO SCALE

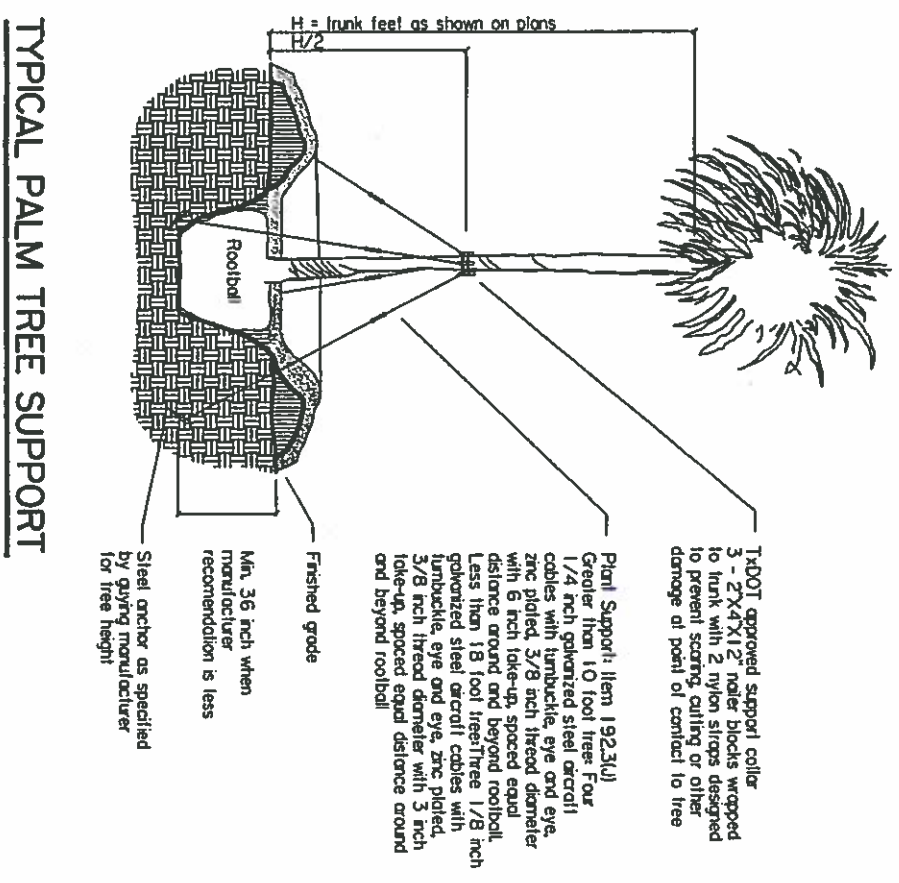


Set tree plumb and in center of pit, top 1/3 of rootball should be above finished grade.
Backfill and burlap to be as provided in Typical Palm Planting Detail.
Bundle foliage lightly with jute twine prior to transport. At time of planting loosen bundle. After 60 days, untie and remove jute twine. If for Soleris, untie and remove jute twine after 90 days. After untying, prune off damaged fronds 6 inches from base of stem as approved by the engineer. Do not use chemicals to prune.
At the time of planting, apply an aluminum based foliar fungicide to tops and bottoms of fronds and nut. After fungicide has dried, apply resackade to the fronds and trunk and then apply antistress/callitranspirants to the fronds and trunk. Repeat application after two weeks from planting.
Trunks shall not be staked, boots shall remain. All tags, ribbons, ties and markers shall be removed at time of planting.
Do not cover top of rootball with soil, mulch only.
4 inch layer of mulch (see planting note #7, this sheet).
Backfill area between rootball and sides of planting pit. Backfill will consist of 70% backfill (see planting note #6, this sheet) and 30% rock limited to 1 inch to 1-1/2 inch. Work backfill equally around the boot in 6 inch lifts. Soak in each lift up to finished grade using a liquid form of vitamin and hormones specifically for palms diluted with water of a ratio recommended by manufacturer, water Item 192.2(C) B 192.3 (E).
Plant basin: Item 192.3(F)
Finish grade.
Rootball size to be min. 12 inches from the edge of trunk.
Apply soil fungicide and slow release fertilizer to rootball.
Fit to be 2/3 depth and same shape of rootball Item 192.3(G).
Compacted backfill to level tree and to establish proper rootball elevation.
Undisturbed soil.

TYPICAL PALM TREE PLANTING NOT TO SCALE



TYPICAL PALM TREE PLANTING (PLAN VIEW) IN CLUSTERS NOT TO SCALE



TYPICAL PALM TREE SUPPORT NOT TO SCALE

REGISTERED LANDSCAPE ARCHITECT
STEPHEN R. WALKER
STATE OF TEXAS 177A

Stephen R. Walker
P.S. No. 1013

THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS,
P.O. BOX 12337, AUSTIN, TEXAS 78711-2337
TELEPHONE: (512) 425-5000, FAX: (512) 425-5333
WEBSITE: www.texasarchitects.com
SHEETS OF THIS RECORDING: THE ARCHITECT'S REGISTRATION ARCHITECTS IN TEXAS.

PLANTING NOTES:

- Contractor shall be responsible for referencing Item 192 of the Texas Standard Specifications for Construction and Maintenance of Highways, Streets and Bridges 2004 for specifications dimensions volumes and measurements that have been modified or not shown.
- Rejection of plants shall be in accordance with Item 192.2(B).
- Contractor shall verify that all planting meets the following clear zone minimum standards unless specified by Engineer: trees: 30 feet from edge of traveled lane unless protected by a barrier, shrubs: 15 feet from edge of traveled lane unless protected by a barrier, vines/groundcover: no min. distance. If protected by barrier, the Engineer shall determine the distance that shall be considered minimum. Roadway edges shown on the plans are to be considered otherwise.
- All locations of trees, shrubs and beds shall be staked in the field by the Contractor in accordance with Item 192.3(C).
- Backfill shall be of the following: 70% existing soil removed from the plant pit and 15% compost for erosion control as described in Special Specification Item 161.
Compost and 15% rock limited to 1 inch to 1-1/2 inch, both shall be identical. Work backfill equally around the rootball in 6 inch lifts to eliminate air pockets. Soak each lift up to finish grade using a liquid form of vitamins and hormones specifically for palms diluted with water of a ratio recommended by manufacturer.
6. Fertilizer to be NPK-12-4-12 with min. 2% water soluble magnesium, min. 5% sulfur, min. 2% iron, and min. 2% total manganese.
7. All chemicals shall be approved for use on palms.
- Compost for surface application for palm planting shall be general use compost as described in Special Specification Item 1058.
Compost for surface application for palm planting shall be identical and not paid for separately. Areas with compost for surface application shall be maintained in accordance with Item 192.3(O)(3).

ATTACHMENT "A"
SHEET 7 OF 9

Texas Department of Transportation
DESIGN DIVISION

PLANTING AND ESTABLISHMENT SHEET 3 OF 5

Details not to scale

FILE:	NO.	STATE:	STATE AID PROJECT NUMBER:	SHEET:
100	6	TEXAS	MM 2013 (1785)	780
DESIGN:	0157	COUNTY:	CONTROL SECT:	JOB:
ORIGINAL:	18	ADDRESS:	0235	01
			023	2M 296

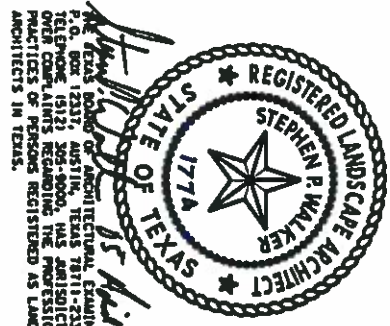
PALM TREE

PLANT SPECIFICATIONS

Botanical Name	Common Name	Color	Quantity	Root Condition	Color	Height	Spread	Remarks
TREES								
SABAL PALM	SABAL MEXICANA		20	B&B		4' - 5'	3' - 4'	NURSERY-GROWN
SHRUBS								
NERIUM OLEANDR	DWARF OLEANDR		60	1 GAL.	SALMON PINK	MIN. 12"	MIN. 12"	DWARF SALMON PINK
VINE/GROUND COVER								

ATTACHMENT "A"
SHEET 8 OF 9

- PLANT SPECIFICATIONS:
- Contractor shall be responsible for referencing Item 192 of the Texas Standard Specifications for Construction Maintenance of Highways Streets and Bridges 2004 for specifications dimensions voids and measurements that have been modified or not shown.
 - Rejection of plants shall be in accordance with Item 192.2(B).
 - The contractor shall be responsible for the safe transportation of plants to the project site and their condition upon arrival.
 - Plant material shall not be stored on hard surface or left exposed to the sun. Protect the root balls and water regularly until planting. If plants are left in storage over the weekend or holiday, a means of periodically watering and inspection container moisture shall be provided.
 - All plants shall be hardy, symmetrical, tight knit, and so trained or favored in development and appearance as to be superior in form, number of branches, and compactness. Plants shall be sound, healthy and vigorous, well branched, and densely foliated when in leaf, and shall have healthy, well developed root systems.
 - All plants shall be nursery-grown in containers unless otherwise shown on plans.



Stephen B. Walker
 THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS,
 HAS REVIEWED THE SIGNATURE OF THE ARCHITECT
 AND HAS ISSUED THIS CERTIFICATE OF REGISTRATION
 OVER COMPLAINTS REGARDING THE PROFESSIONAL
 PRACTICES OF PERSONS REGISTERED AS LANDSCAPE
 ARCHITECTS IN TEXAS.

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PLANTING AND ESTABLISHMENT
 SHEET 4 OF 5

PLANT SPECIFICATIONS

FILE	NO	STATE	STATE AID PROJECT NUMBER	SHEET
ORIGINAL	5	TEXAS	HM 2013 (1983)	781
	215	COUNTY	CONTR. SECT.	JOB
	18	MARKS	Q226 01	Q22 5A 296

LANDSCAPE ESTABLISHMENT AND MAINTENANCE REQUIREMENTS

DESCRIPTION	LIMITS	REQUIREMENTS	FREQUENCY
<p>192 PLANTING AND ESTABLISHMENT AFTER COMPLETION OF THE PROJECT INSTALLATION AS SHOWN ON THE PLANS AND AS APPROVED BY THE ENGINEER, THE CONTRACTOR SHALL PERFORM MAINTENANCE AND REPLACEMENT ACTIVITIES FOR A PERIOD OF 90 CALENDAR DAYS AS DESCRIBED IN ITEM 192.310). ALL WORK DURING 90 CALENDAR DAY ESTABLISHMENT PERIOD SHALL BE INCIDENTAL AND NOT PAID FOR SEPARATELY UNLESS OTHERWISE SHOWN IN PLANS. THE 90 CALENDAR DAY ESTABLISHMENT PERIOD WILL BEGIN ONLY WHEN APPROVED BY THE ENGINEER AND END ACCORDING TO ITEM 192.5. PAYMENT SHALL BE AS DESCRIBED IN ITEM 192.7.</p>	<p>LIMITS OF PLANTING ARE AS SHOWN ON THE PLANS.</p>	<p>CONTRACTOR SHALL COMPLETE INSTALLATION AS SHOWN IN THE PLANS AND PERFORM THE 90 CALENDAR ESTABLISHMENT PERIOD AS DESCRIBED IN 192.310) WITH THE FOLLOWING EXCEPTIONS: METHODS FOR MAINTAINING PLANTING AREAS WEEP FREE SHALL BE AS DESCRIBED ON THIS SHEET UNDER ITEM 193 PLANT MAINTENANCE REQUIREMENTS WATERING SHALL OCCUR AS SHOWN ON "TREE OR SHRUB PLANTING" SHEETS. METHODS FOR MAINTAINING THE IRRIGATION SYSTEM SHALL BE AS DESCRIBED ON THIS SHEET UNDER ITEM 193 IRRIGATION SYSTEM OPERATION AND MAINTENANCE REQUIREMENTS STRESSED, DAMAGED, OR DEAD PLANTS RESULTING FROM CONTRACTOR'S ACTIONS OR INADEQUATE MAINTENANCE SHALL BE REPLACED AT CONTRACTOR'S EXPENSE.</p>	<p>PLANTING AND ESTABLISHMENT ACTIVITIES SHALL OCCUR AT LEAST ONCE PER MONTH MINIMUM. VEGETATIVE WATERING SHALL OCCUR AS SHOWN ON "TREE OR SHRUB PLANTING" SHEETS. ANY TREE OR SHRUB PLANTING AND ESTABLISHMENT MAY BE REQUIRED TO TAKE PLACE DURING NORMAL GROWING PERIODS. ADDITIONAL MAINTENANCE PERIODS SHALL BE INCIDENTAL AND NOT PAID FOR SEPARATELY.</p>
<p>193-501 PLANT MAINTENANCE (MO) (IF APPLICABLE TO THIS PROJECT) PLANT MAINTENANCE APPLIES TO LANDSCAPE AFTER COMPLETION OF 90-CALENDAR DAY ESTABLISHMENT PERIOD ACCORDING TO ITEM 192.310) MAINTENANCE REQUIREMENTS SHALL BE LIMITED TO THOSE ACTIVITIES SHOWN OR REFERENCED ON THIS SHEET.</p>	<p>LIMITS OF PLANTING ARE AS SHOWN ON THE PLANS.</p>	<p>CONTRACTOR SHALL MAINTAIN ALL PLANTING AREAS GENERALLY WEEP AND GRASS FREE. WEEDS AND GRASS SHALL BE MANUALLY REMOVED OR CONTROLLED WITH HERBICIDE APPLICATION. CORO TRIMMERS SHALL NOT BE USED TO KEEP AREA WEEP FREE. ANY WORK USING CORO TRIMMERS FOR WEED CONTROL IN TREE, SHRUB, AND VINE PLANTING AREAS SHALL NOT BE PAID FOR. HERBICIDE AND TOXIC APPLICATOR SHALL BE PROVIDED BY THE ENGINEER PRIOR TO APPLICATION. EXERCISE CARE SHALL BE TAKEN TO ENSURE THE HERBICIDE DOES NOT COME INTO CONTACT WITH ANY PART OF THE DESIRABLE PLANTS. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL PLANT STAKING AND SUPPORTS SO THAT ALL PLANTS REMAIN APPROXIMATELY VERTICAL AND STRAIGHT. CONTRACTOR SHALL REMOVE OR ADJUST METAL STAKES AND SUPPORTS FOR LARGE PLANTS WHEN DIRECTED BY ENGINEER. BIODEGRADABLE STAKING SYSTEM ON SMALLER PLANTS SHALL REMAIN UNTIL PLANT STAKES AND SUPPORTS DECOMPOSE NATURALLY. REMOVAL OF BIODEGRADABLE STAKES AND SUPPORTS WILL NOT BE REQUIRED. CONTRACTOR SHALL COLLECT AND DISPOSE OF ALL LITTER WITHIN ALL PLANTING AREAS. STRESSED, DAMAGED, OR DEAD PLANTS RESULTING FROM CONTRACTOR'S ACTIONS OR INADEQUATE MAINTENANCE SHALL BE REPLACED AT CONTRACTOR'S EXPENSE.</p>	<p>PLANT MAINTENANCE ACTIVITIES SHALL OCCUR AT LEAST ONCE PER MONTH MINIMUM AS SHOWN ON "TREE OR SHRUB PLANTING" SHEETS. ADDITIONAL MAINTENANCE AND ESTABLISHMENT MAY BE REQUIRED TO MEET REQUIREMENTS DURING NORMAL GROWING PERIODS. ADDITIONAL MAINTENANCE FOR GROWING PERIODS SHALL BE INCIDENTAL AND NOT PAID FOR SEPARATELY.</p>
<p>193-2006 VEGETATIVE WATERING (MO) (IF APPLICABLE TO THIS PROJECT)</p>		<p>VEGETATIVE WATERING SHALL OCCUR AS SHOWN ON "TREE PLANTING DETAILS, VEGETATIVE WATERING SCHEDULE, NOTES AND SPECIFICATIONS" SHEETS. STRESSED, DAMAGED, OR DEAD PLANTS RESULTING FROM CONTRACTOR'S ACTIONS OR INADEQUATE WATERING SHALL BE REPLACED AT CONTRACTOR'S EXPENSE.</p>	<p>VEGETATIVE WATERING SHALL OCCUR AS SHOWN ON "TREE PLANTING DETAILS, WATERING SCHEDULE, NOTES AND SPECIFICATIONS" SHEETS.</p>
<p>193-2007 IRRIGAT SYS OPER AND MAINT (MO) (IF APPLICABLE TO THIS PROJECT)</p>	<p>LIMITS OF IRRIGATION SYSTEM MAINTENANCE WILL BE THE ENTIRE SYSTEM(S) FROM THE WATER METERS(S)</p>	<p>CONTRACTOR SHALL MAINTAIN ALL IRRIGATION SYSTEMS ACCORDING TO DETAILS SHEET (S). CONTRACTOR SHALL MAINTAIN ALL IRRIGATION SYSTEMS DESCRIBED ON THE "IRRIGATION SYSTEMS" SHEET(S) AND THE REQUIREMENTS DESCRIBED ON THE "IRRIGATION SYSTEMS" SHEET(S). STRESSED, DAMAGED, OR DEAD PLANTS RESULTING FROM CONTRACTOR'S ACTIONS OR INADEQUATE MAINTENANCE SHALL BE REPLACED AT CONTRACTOR'S EXPENSE.</p>	<p>CONTRACTOR SHALL INSPECT IRRIGATION SYSTEM AT LEAST ONCE PER MONTH MINIMUM AT ALL PROJECT LOCATIONS. ADJUSTMENTS MADE TO IRRIGATION TIMERS SHALL BE MADE BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER. ADJUSTMENTS WILL BE REQUIRED AT SEASONAL CHANGES, EXCESSIVE WET OR DRY PERIODS, OR OTHER TIMES AS DIRECTED BY THE ENGINEER. ADJUSTMENTS SHALL BE INCIDENTAL.</p>

ATTACHMENT "A"
SHEET 9 OF 9



STEPHEN R WALKER
 REGISTERED LANDSCAPE ARCHITECT
 STATE OF TEXAS
 1774

Stephen R Walker
 OS No. 1003

THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS,
 P.O. BOX 12337, AUSTIN, TEXAS 78711-2337
 HAS REVIEWED AND APPROVED THE PRACTICE OF
 ARCHITECTURE OF THE ABOVE NAMED ARCHITECT.
 OVER COMPLIANCE REGARDING THE PROFESSIONAL
 PRACTICES OF PERSONS REGISTERED AS LANDSCAPE
 ARCHITECTS IN TEXAS.

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PLANTING AND ESTABLISHMENT
 SHEET 5 OF 5

Details not to scale

FILE#	STATE	STATE AID PROJECT NUMBER	SHEET
6	TEXAS	WM 2013 (1781)	732
DIST	COUNTY	CONTROL SECT	JOB
181	0285	01	052
			5M 206