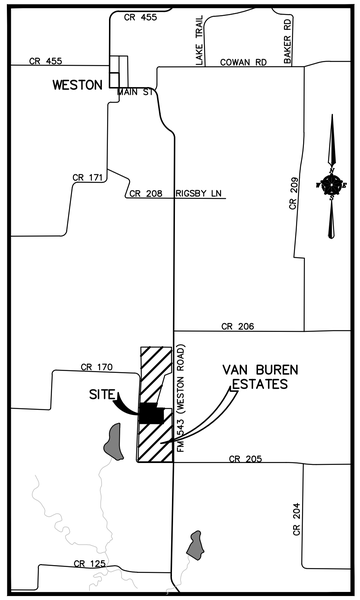
BENCHMARKS
COLLIN COUNTY GPS MONUMENT NO.107.
STATE PLANE COORDINATES: N=7,162,670.5090 E=2,530,072.8220
ELEVATION=673.03'
TEMPORARY BENCHMARK.
TOP OF NORTH END OF CONCRETE HEADWALL ON WEST SIDE OF F.M. 543 (WESTON ROAD) APPROXIMATELY 1,067' SOUTH OF THE NORTHEAST CORNER OF THE SUBJECT PROPERTY.
APPROXIMATE STATE PLANE COORDINATES: N=7,166,417.1± E=2,529,937.4±
ELEVATION=684.71'

SITE DEVELOPMENT PLANS FOR
LOT 90, BLOCK A
VAN BUREN ESTATES

NORTHWEST CORNER OF
F.M.543 (WESTON ROAD) AND C.R.170
WESTON, TX 75097

ZONED - RED-1



LOCATION MAP
NOT TO SCALE

SHEET INDEX

OWNER:
VAN BUREN ESTATES, LLC
A TEXAS LIMITED LIABILITY COMPANY
CONTACT: JON ANDERSON
1221 N. JEFFERSON AVENUE
MT. PLEASANT, TEXAS 75455
(903) 563-2122

ENGINEER:
JM CIVIL ENGINEERING
CONTACT: JOHN MEASELS, PE (ENGINEER)
5900 S. LAKE FOREST DRIVE, SUITE 380
McKINNEY, TEXAS 75070
JMEASELS@JMCIVILENG.COM
(214) 491-1830
FIRM NO. F-19504

SURVEYOR:
TEXAS HERITAGE SURVEYING, LLC
CONTACT: GARY JOHNSON (SURVEYOR)
10610 METRIC DR., SUITE 124
DALLAS, TEXAS 75243
(214) 340-9700

FLOOD NOTE
A PORTION OF THE SUBJECT PROPERTY IS SHOWN ON THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP FOR COLLIN COUNTY, TEXAS, MAP NO. 48085C0135 J, COMMUNITY–PANEL NO. 481324 0135 J, MAP REVISED: JUNE 2, 2009. THE PORTION OF THE SUBJECT PROPERTY ON SAID MAP IS SHOWN TO BE LOCATED IN ZONE "X". RELEVANT ZONES ARE DEFINED ON SAID MAP AS FOLLOWS: ZONE "X" – OTHER AREAS: AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.
THE REMAINDER OF THE SUBJECT PROPERTY IS SHOWN ON THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP FOR COLLIN COUNTY, TEXAS, MAP NO. 48085C0145 J, COMMUNITY–PANEL NO. 481324 0145 J, MAP REVISED: JUNE 2, 2009. A PORTION OF THE SUBJECT PROPERTY ON SAID MAP IS SHOWN TO BE LOCATED IN ZONE "A" AND ZONE "X". RELEVANT ZONES ARE DEFINED ON SAID MAP AS FOLLOWS:
ZONE "A" – SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD: NO BASE FLOOD ELEVATIONS DETERMINED.
ZONE "X" – OTHER AREAS: AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.

Know what's below. Call before you dig.

AS BUILT
10/29/2019

THIS RECORD DRAWING IS A COMPILATION OF SEALED ENGINEERING DRAWINGS FOR THIS PROJECT MODIFIED BY INFORMATION FURNISHED BY THE CONTRACTOR, BASED ON THE CONTRACTORS' INFORMATION AND GENERAL INSPECTION BY THE CITY.

JM CIVIL Engineering
5900 S. Lake Forest Dr., Suite 380
McKinney, TX 75070
Ph. 214-491-1830
John Measels, PE
CIVIL ENGINEER
FIRM NO. 19504
FIRM NO. F–19504

STATE OF TEXAS
JOHN THOMAS MEASELS
93278
REGISTERED PROFESSIONAL ENGINEER
10/29/2019

LOT 90, BLOCK A, VAN BUREN ESTATES
NORTHWEST CORNER OF F.M.543 (WESTON ROAD) AND C.R.170 WESTON, TX 75097

REV	DATE	DESCRIPTION	NAME
	10/29/19	AS BUILT	TWA

PROJECT NO: JM–RR18001.0
DRAWN BY: TWA
CHECKED BY: AS
ISSUE DATE: 10/29/19

COVER SHEET

J:\RESIDENTIAL LAND\WESTON, TX – 170 & 543_CURRENT DRAWINGS LOT 90\DETAILS LOT 90.DWG 10/30/2019 11:31 AM TIM ANDRES

OWNER'S DEDICATION

NOW, THEREFORE, KNOW ALL MEN BY THESE PRESENTS:

THAT, Van Buren Estates, LLC, a Texas limited liability company, acting herein by and through it's authorized officers, do hereby certify and adopt this plat designating the hereinabove described property as **VAN BUREN ESTATES, PHASE II**, an Addition to the City of Weston, and does hereby dedicate, in fee simple, to the public use forever, the streets and alleys shown thereon. The streets and alley are dedicated for street purposes. The easements and public use areas, as shown, are dedicated for the public use forever, for the purposes indicated on this plat. No buildings, fences, trees, shrubs, or other improvements or growths shall be constructed or placed upon, over, or across the easements as shown., except that landscape improvements may be placed in landscape easements, if approved by the City of Weston. In addition, utility easements may also be used for the mutual use and accommodation of all public utilities desiring to use or using the same unless the easement limits the use to particular utilities, said use by public utilities being subordinate to the public's and City of Weston's use thereof. The City of Weston and public utility entities shall have the right to remove and keep removed all or parts of any buildings, fences, trees shrubs, or other improvements or growths which may in any way endanger or interfere with the construction, maintenance or efficiency of their respective systems in said easements. The City of Weston and public utility entities shall at all times have the full right of ingress and egress to or from their respective easements for the purpose of construction, reconstructing, inspecting, patrolling, maintaining, reading meters, and adding to or removing all or parts of their respective systems with the necessity at any of procuring permission from anyone.

That the undersigned does hereby covenant and agree that he (they) shall construct upon the fire lane easements, as dedicated and shown hereon, a hard surface and that he (they) shall maintain the same in a state of good repair at all times and keep the same free and clear of any structures, fences, trees, shrubs, or other improvements or obstruction, including but not limited to the parking of motor vehicles, trailers, boats, or other impediments to the access of fire apparatus. The maintenance of paving on the fire lane easements is the responsibility of the owner, and the owner shall post and maintain appropriate signs in conspicuous places along such fire lanes, stating "Fire Lane, No Parking." The police or his duly authorized representative is hereby authorized to cause such fire lanes and utility easements to be maintained free and unobstructed at all times for Fire Department and emergency use.

The undersigned does covenant and agree that the access easement may be utilized by any person or the general public for ingress and egress to other real property, and for the purpose of General Public vehicular and -pedestrian use and access, and for Fire Department and emergency use, in, along, upon, and across said premises, with the right and privilege at all times of the City of Weston, its agents, employees, workmen, and representatives having ingress, egress, and regress in, along, upon, and across said premises.

This plat approved subject to all platting ordinances, rules, regulations and resolutions of the City of Weston, Texas.

WITNESS MY HAND THIS _____ DAY OF _____, 2018.

Van Buren Estates, LLC, a Texas limited liability company

_____
Owner/Agent

STATE OF TEXAS
COUNTY OF COLLIN

BEFORE ME, the undersigned authority, a Notary Public in and for the State of Texas, on this day personally appeared _____, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he/she executed the same for the purposes and considerations therein expressed and in the capacity therein stated and as the act and deed therein stated.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this _____ day of _____, 2018.

_____
Notary Signature

LEGEND

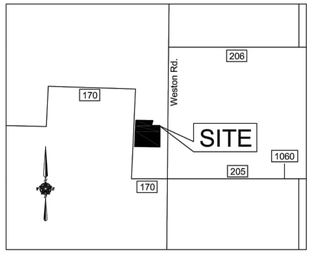
○	IRON ROD FOUND	—— OHP —— OVERHEAD POWER LINE
⊗	IRON ROD SET	—— E —— UNDERGROUND ELECTRIC LINE
⬡	IRON PIPE FOUND	—— —— —— EASEMENT LINE
☒	"X" FOUND / SET	B.L. BUILDING LINE
●	POWER POLE	—— W —— W —— W —— EXISTING WATER LINE
		—— W —— W —— PROPOSED WATER LINE

D.R.C.C.T. DEED RECORDS, COLLIN COUNTY, TEXAS
O.P.R.C.C.T. OFFICIAL PUBLIC RECORDS, COLLIN COUNTY, TEXAS
PROPERTY LINE

PARCEL CURVE TABLE				
CURVE #	LENGTH	RADIUS	DELTA	CHORD
C1	233.92'	150.00'	89°21'07"	S45° 02' 36"E 210.93'
C2	325.42'	60.00'	310°45'05"	N89° 37' 58"E 50.00'
C3	155.95'	100.00'	89°21'07"	N45° 02' 36"W 140.62'
C10	194.94'	125.00'	89°21'08"	S45° 02' 35"E 175.77'

SCS EASEMENT CURVE TABLE				
CURVE #	LENGTH	RADIUS	DELTA	CHORD
C4	69.32'	67.60'	58°44'55"	N67° 38' 26"E 66.32'
C5	221.23'	553.95'	22°52'56"	N49° 42' 26"E 219.76'
C6	54.64'	100.00'	31°18'16"	S64° 58' 25"E 53.96'
C7	55.26'	150.00'	21°06'35"	N61° 25' 00"W 54.95'
C8	45.51'	189.67'	13°44'53"	S41° 26' 02"W 45.40'
C9	159.17'	146.47'	62°15'49"	S65° 41' 30"W 151.46'
C11	35.22'	287.07'	07°01'50"	N57° 37' 59"E 35.20'

VICINITY MAP - NOT TO SCALE



GENERAL NOTES:

1) Bearings are based upon the Texas State Plane Coordinate System, North Central Zone, North American Datum of 1983, (2011). Distances are shown as surface values.

2) Selling a portion of this addition by metes and bounds is a violation of City Subdivision Ordinance and State Platting Statutes and is subject to fines and withholding of utilities and building permits.

3) This property is located in "Non-shaded Zone X" as scaled from the F.E.M.A. Flood Insurance Rate Map dated April 18, 2011 and is located in Community Number 480194 as shown on Map number 48121C0390G. The location of the Flood Zone is approximate, no vertical datum was collected at the time of the survey. For the exact Flood Zone designation, please contact 1-(877) FEMA MAP.

4) The bearings shown on this survey were derived from Western Data Systems RTK Network and are referenced to the Texas Coordinate System of 1983, North Central Zone (4202) and are based on the American Datum of 1983, 2011 Adjustment.

5) The existing creeks or drainage channels traversing along or across the addition will remain as open channels and will be maintained by individual owners of the lot or lots that are traversed by or adjacent to the drainage course along or across said lots.

6) Collin County will not be responsible for the maintenance and operation of said drainage ways or for the control of erosion in said drainage ways.

7) Collin County will not be responsible for any damage, personal injury or loss of life or property occasioned by flooding or flooding conditions.

8) Collin County permits are required for building construction, on-site sewage facilities and driveway culverts.

9) All lots must utilize alternative type On-Site Sewage Facilities. Presence of fractured rock throughout the subdivision may further limit the type of alternative type On-Site Sewage Facilities to Aerobic Treatment with Surface Application on individual lots and may interfere with tank placement.

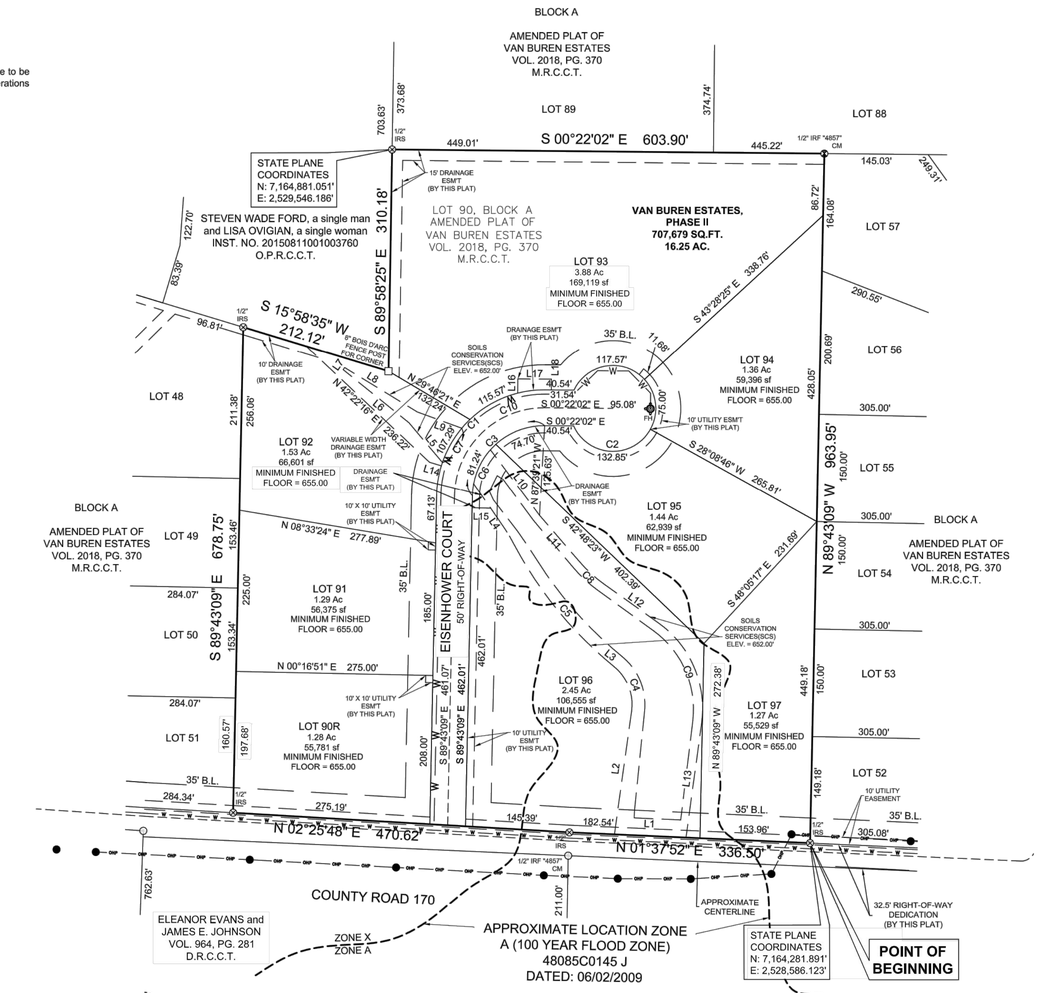
10) All lots must maintain state-mandated setback of all On-Site Sewage Facility components from any/all easements and drainage areas, water distribution lines, sharp breaks and/or creeks/rivers/ponds, etc. (Per State regulations.)

11) Tree removal and/or grading for OSSF may be required on individual lots.

12) Individual site evaluations and OSSF design plans (meeting all State and County requirements) must be submitted to and approved by Collin County for each lot prior to construction or any OSSF system.

13) There are no water wells noted in this subdivision and no water wells are allowed without prior approval from Collin County Development Services.

14) TBM=684.70 (Temporary Benchmark) located on a concrete headwall, approximately 3,859 feet from the North right-of-way line of County Road 170 on the West right-of-way line of F.M. 543.



SCS EASEMENT LINE TABLE		
LINE #	LENGTH	DIRECTION
L1	104.73'	N1°37'52"E
L2	174.19'	S82°59'07"E
L3	21.88'	N36°37'55"E
L4	67.79'	N54°22'35"E
L5	72.51'	N48°57'39"E
L6	117.97'	N37°55'55"E
L7	3.65'	S55°36'47"E
L8	118.76'	S30°29'19"W
L9	66.21'	S19°08'43"W
L10	114.61'	S52°19'09"W
L11	86.00'	S48°18'28"W
L12	94.10'	S34°33'36"W
L13	162.27'	N83°10'35"W

DRAINAGE EASEMENT LINE TABLE		
LINE #	LENGTH	DIRECTION
L14	17.37'	N16°07'02"E
L15	25.84'	N00°16'51"E
L16	19.89'	N89°37'58"E
L17	47.00'	S0°22'02"E
L18	15.00'	S89°37'58"W

OWNER'S CERTIFICATE

STATE OF TEXAS
COUNTY OF COLLIN

WHEREAS, Van Buren Estates, LLC, a Texas limited liability company is the owner of a tract of land situated in the Leonidas Wilson Survey, Abstract No. 982 in Collin County, Texas, and being a portion out of the Amended Plat of Van Buren Estates, an Addition to the City of Weston, Collin County, Texas, according to the Map thereof recorded in Volume 2018, Page 370, Map Records, Collin County, Texas, said tract being conveyed to Van Buren Estates, LLC, a Texas limited liability company, by Special Warranty Deed recorded in Instrument No. 20170615000779230, Official Public Records, Collin County, Texas, and being more particularly described by metes and bounds as follows:

Beginning at a 1/2 inch iron rod set with yellow plastic cap stamped "TXHS" in the East line of County Road 170 at the Northwest corner of Lot 52, Block A of said Amended Plat of Van Buren Estates and being the Southwest corner of the herein described tract;

Thence North 01 degrees 37 minutes 52 seconds East, along said East line of County Road 170, a distance of 336.50 feet to a 1/2 inch iron rod set with yellow plastic cap stamped "TXHS", for an angle point in said East line;

Thence North 02 degrees 25 minutes 48 seconds East, continuing along said East line of County Road 170, a distance of 470.62 feet to a 1/2 inch iron rod set with yellow plastic cap stamped "TXHS" at the Southwest corner of Lot 51, Block A of said Amended Plat of Van Buren Estates and being the Northwest corner of the herein described tract;

Thence South 89 degrees 43 minutes 09 seconds East, departing said East line of County Road 170, a distance of 678.75 feet to a 1/2 inch iron rod set with yellow plastic cap stamped "TXHS" at the Southeast corner of Lot 48, Block A of said Amended Plat of Van Buren Estates and lying in the Northwest line of a tract of land conveyed to Steven Wade Ford, a single man and Lisa Ovigian, a single woman, by Deed recorded in Instrument No. 20150811001003760, Official Public Records, Collin County, Texas;

Thence South 15 degrees 58 minutes 35 seconds West, along said Northwest line of Ford/Ovigian tract, a distance of 212.12 feet to an 8 inch Bois D'Arc fence post at the Southwest corner of said Ford/Ovigian tract, and being an interior corner of the herein described tract;

Thence South 89 degrees 58 minutes 25 seconds East, along the South line of said Ford/Ovigian tract, a distance of 310.18 feet to a 1/2 inch iron rod set with yellow plastic cap stamped "TXHS" at the Northwest corner of Lot 89, Block A of said Amended Plat of Van Buren Estates, for the most Easterly Northeast corner of the herein described tract;

Thence South 00 degrees 22 minutes 02 seconds East, along the West line of said Lot 89, Block A, common with the East line of the herein described tract, a distance of 603.90 feet to a 1/2 inch iron rod found with cap stamped "4857" at the Northeast corner of Lot 57, Block A of said Amended Plat of Van Buren Estates, for the Southeast corner of the herein described tract;

Thence North 89 degrees 43 minutes 09 seconds West, along the North line of said Lot 57, Block A, common with the South line of the herein described tract, a distance of 963.95 feet to the POINT OF BEGINNING and containing 707,679 square feet or 16.25 acres of land.

SURVEYORS CERTIFICATE

STATE OF TEXAS
COUNTY OF DALLAS

THAT I, Raul D. Reyes, do hereby certify that I prepared this plat and the field notes made a part thereof from an actual and accurate survey on the land and that the corner monuments shown thereon were found and/or properly placed under my personal supervision in accordance with the Subdivision regulations of the City of Weston, Texas.

Preliminary, this document shall not be recorded for any purposes and shall not be used or viewed or relied upon as a final survey document. (07/27/2018)

Raul D. Reyes
Registered Professional Land Surveyor No. 5390

STATE OF TEXAS
COUNTY OF DALLAS

BEFORE ME, the undersigned a Notary Public in and for The State of Texas, on this day personally appeared Raul D. Reyes, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledge to the me that he executed the same purposes and considerations therein expressed and in the capacity therein stated.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this the _____, day of _____, 2018.

_____
Notary Public

HEALTH DEPARTMENT CERTIFICATION:

I hereby certify that the on-site sewage facilities described on this plat conform to the applicable OSSF laws of the State of Texas, that site evaluations have been submitted representing the site conditions in the area in which on-site sewage facilities are planned to be used.

_____
Registered Sanitarian or Designated Representative
Collin County Development Services

CERTIFICATE OF APPROVAL

Approved this the _____ day of _____, 2018 by the Planning & Zoning Commission of the City of Weston, Texas.

_____
Planning and Zoning Commission Chairperson

STATE OF TEXAS
COUNTY OF COLLIN

BEFORE ME, the undersigned authority, a Notary Public in and for the State of Texas, on this day personally appeared _____, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he/she executed the same for the purposes and considerations therein expressed and in the capacity therein stated and as the act and deed therein stated.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this _____ day of _____, 2018.

_____
Notary Signature

Proposed zoning is:
"Residential Estates District 1" (RED 1)

PRELIMINARY PLAT
VAN BUREN ESTATES, PHASE II
LOTS 90A-97, BLOCK A
707,679 SQ. FT. / 16.25 AC.
REPLAT OF THE AMENDED PLAT OF
VAN BUREN ESTATES
VOLUME 2018, PAGE 370,
MAP RECORDS, COLLIN COUNTY, TEXAS
LEONIDAS WILSON SURVEY, ABSTRACT NO. 982
CITY OF WESTON, COLLIN COUNTY, TEXAS

DATE: 07/25/18 / JOB # 1801062-1 / SCALE - 1" = 100' / CN

SURVEYOR
TEXAS HERITAGE SURVEYING, LLC
10610 Metric Drive, Suite 124, Dallas, TX 75243
Office 214-340-9700 Fax 214-340-9710
txheritage.com
Firm #10169300

OWNER
VAN BUREN ESTATES, LLC
a Texas limited liability company
1221 N. Jefferson Avenue
Mt. Pleasant, Texas 75455
attn: Amy Burnside
Ph: 214-616-1820
amy@reedross.com

CAUTION NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 14 DAYS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES HORIZONTALLY AND VERTICALLY WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

BENCHMARKS

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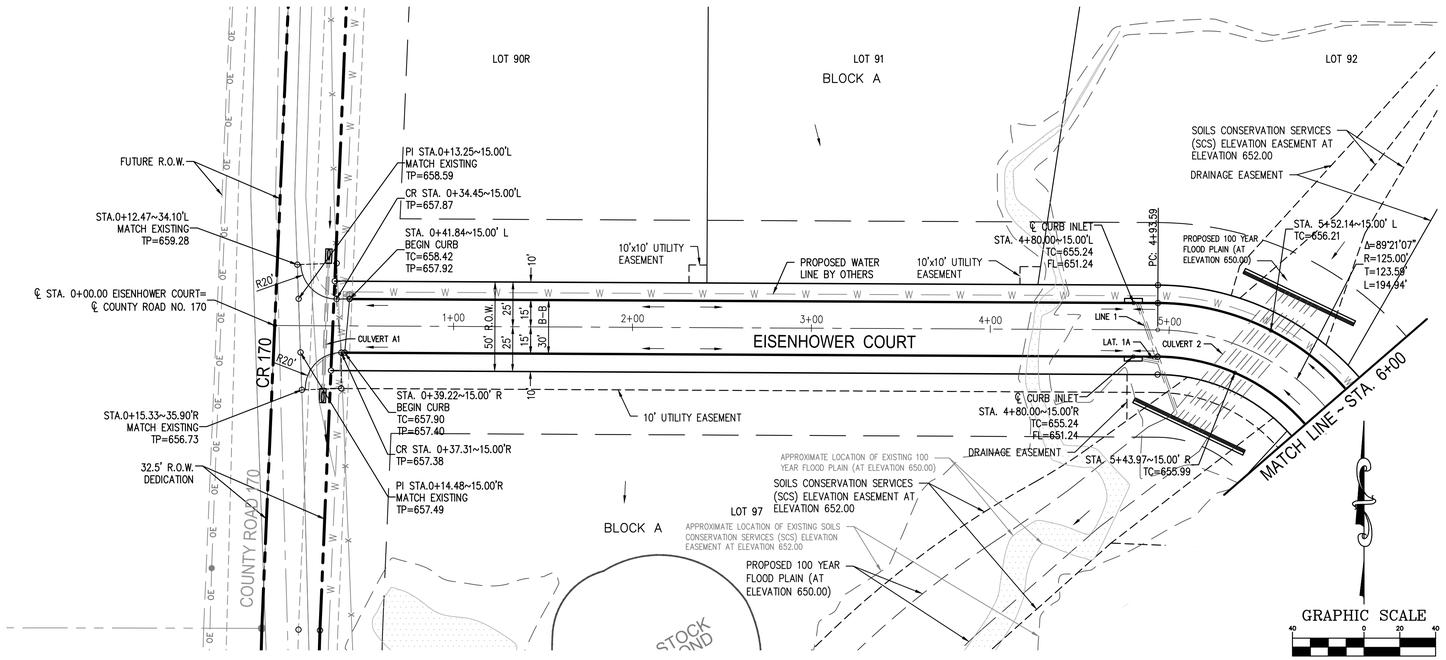
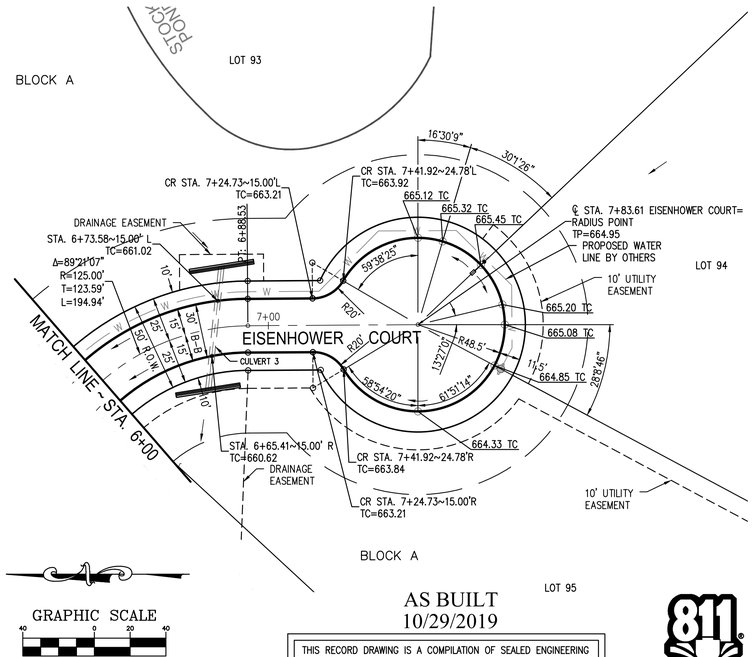


EISENHOWER COURT

GRAPHIC SCALE
40 0 20 40
(IN FEET)
1 inch = 40 ft.



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10/29/2019

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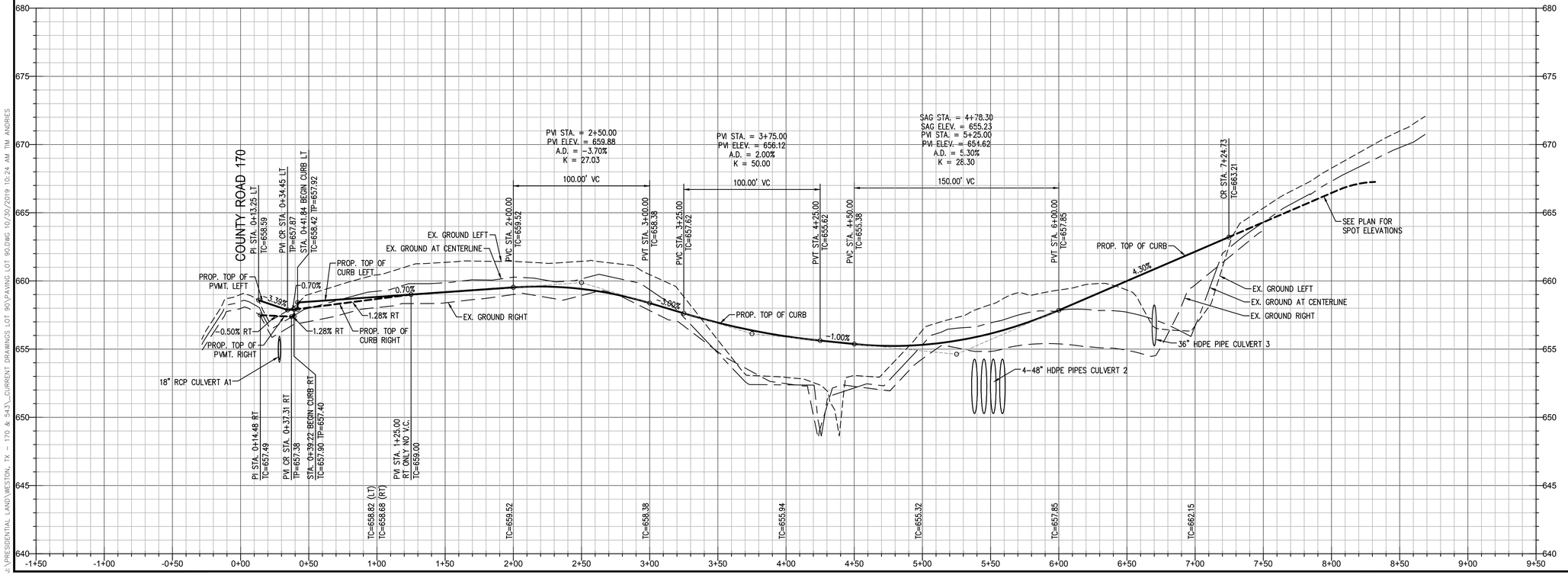
811 Know what's **below.** **Call** before you dig



J:\PRESIDENTIAL LAND\WESTON, TX - 170 & 543_CURRENT DRAWINGS LOT 90\PAVING LOT 90.DWG 10/30/2019 10:24 AM TIM ANDRES

JM CIVIL Engineering
5900 S. Lake Forest Dr., Suite 380
McKinney, TX 75070
Ph. 214-491-1830
John Measels, PE
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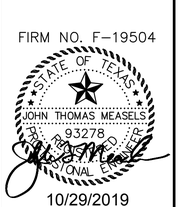
FIRM NO. 19504
FIRM NO. F-19504



10/29/2019

LOT 90, BLOCK A, VAN BUREN ESTATES
NORTHWEST CORNER OF F.M.543 (WESTON ROAD)
AND C.R.170 WESTON, TX 75097

REV	DATE	DESCRIPTION	NAME
	10/29/19	AS BUILT	TWA

PROJECT NO: JM-RR18001.0
DRAWN BY: TWA
CHECKED BY: AS
ISSUE DATE: 10/29/19

PAVING PLAN ~ EISENHOWER COURT

C1.0

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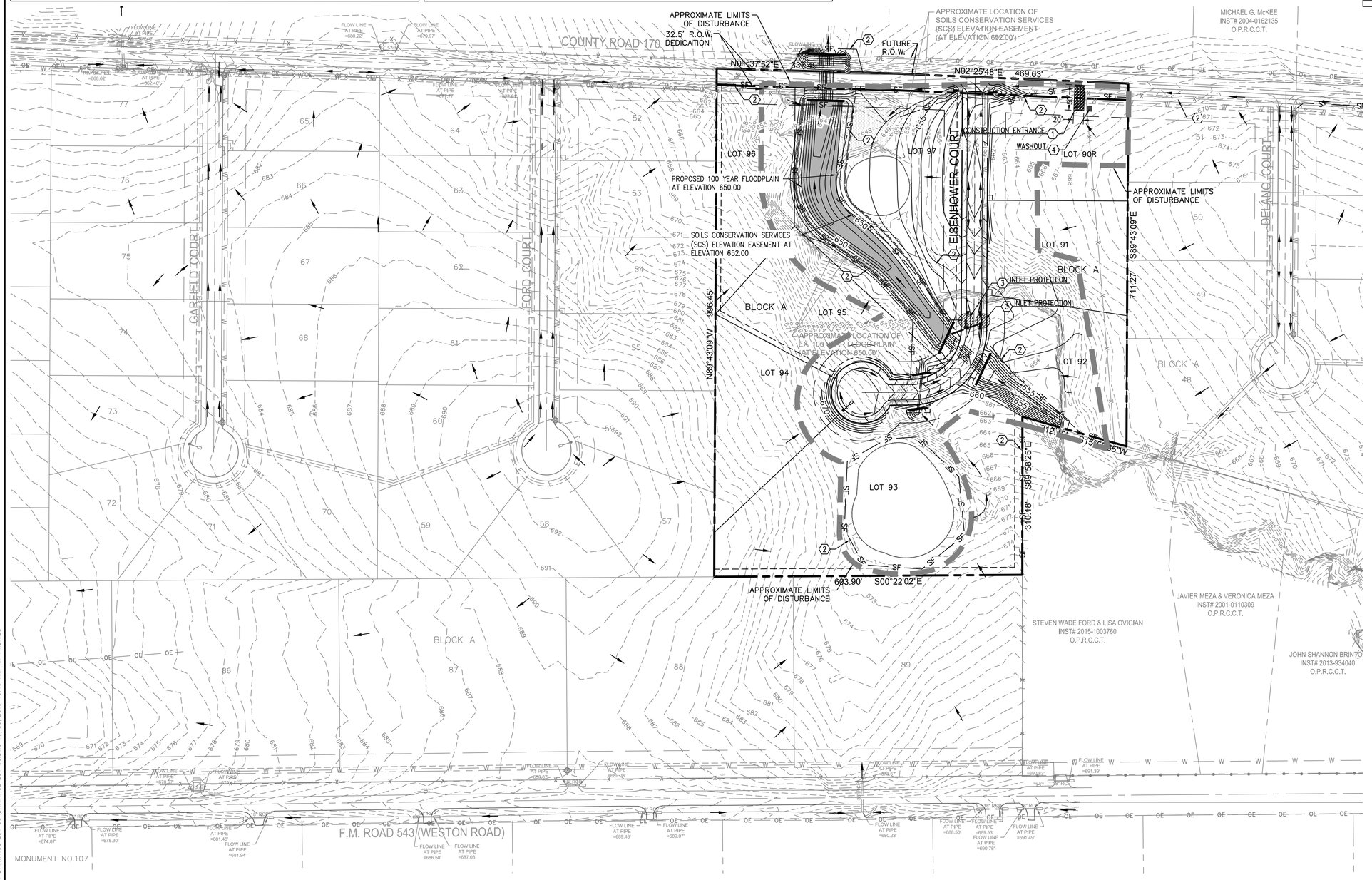
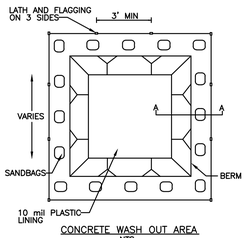


GRAPHIC SCALE

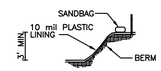
100 0 50 100

(IN FEET)
1 inch = 100 ft.

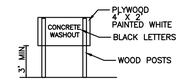


CONCRETE WASH OUT AREA
NTS

NOTES:
1. ACTUAL SIZE DETERMINED IN THE FIELD.
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FEET OF THE TEMPORARY CONCRETE WASHOUT FACILITY.



SECTION A–A
NTS



CONCRETE WASHOUT SIGN DETAIL
NTS

EROSION CONTROL KEY NOTES (#)

1. TEMPORARY CONSTRUCTION ENTRANCE
2. TEMPORARY SILT FENCE
3. TEMPORARY INLET PROTECTION
4. MIN. 10'X10' CONCRETE WASH AREA (SHALL COMPLY WITH TCEQ GENERAL PERMIT PART V)

SEQUENCE OF CONSTRUCTION ACTIVITIES:

A. CONSTRUCT TEMPORARY CONSTRUCTION ENTRANCE AND SILT FENCE ACCORDING TO THE APPROXIMATE LOCATION SHOWN ON THE EROSION CONTROL PLAN.

B. CONSTRUCT TEMPORARY INLET TREATMENT AROUND OPEN STORM DRAIN INLETS ACCORDING TO THE EROSION CONTROL PLAN.

C. KEEP ALL STORM WATER POLLUTION PREVENTION MEASURES IN PLACE.

D. BEGIN CLEARING AND GRADING OF SITE.

E. INSTALL WATER, SANITARY SEWER AND STORM DRAIN AS SPECIFIED ON PLAN SHEETS.

F. PAVE STREETS AND SIDEWALKS AS SPECIFIED ON PLAN SHEETS.

G. RE–VEGETATE LOTS, PARKWAYS AND ALL DISTURBED AREAS.

H. REMOVE ALL TEMPORARY EROSION CONTROL DEVICES.

MAINTENANCE:

A. CONTRACTOR TO KEEP ALL STORM WATER POLLUTION PREVENTION MEASURES IN PLACE DURING CONSTRUCTION.

B. CONTRACTOR SHALL MAINTAIN ALONG WITH THE SIGNED EFFECTIVE COPY OF SWP3 DRAWINGS AN UPDATED LIST IDENTIFYING ALL POTENTIAL SOURCES OF POLLUTION INCLUDING PORTA–POTTYS. FUEL TANKS, STAGING AREAS, WASTE CONTAINERS, CHEMICAL STORAGE AREAS, CONCRETE CURE, PAINTS SOLVENTS, ETC., AND A DESCRIPTION OF THE LOCATION.

C. CONTRACTOR TO REMOVE ALL STORM WATER POLLUTION PREVENTION MEASURES AFTER CONSTRUCTION IS COMPLETE AND INSPECTED FOR APPROVAL. LONG TERM MAINTENANCE TO BE PROVIDED BY OWNER.

NOTES:
1. CONTRACTOR SHALL POLICE SITE REGULARLY AND AND KEEP SITE FREE OF TRASH AND CONSTRUCTION DEBRIS.
2. ALL EROSION CONTROL DEVICES SHALL BE CONSTRUCTED AND MAINTAINED IN COMPLIANCE WITH CITY STANDARD EROSION CONTROL DETAILS
3. TOTAL DISTURBED AREA=2.75 ACRES.
4. REFER TO LANDSCAPE PLAN FOR FINAL GROUND STABILIZATION (SHEET L1 ATTACHED).

811 Know what's **below.** **Call** before you dig.

AS BUILT
10/29/2019

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Ph. 214-491-1830
John Measels, PE
CIVIL ENGINEER
FIRM NO. 19504
FIRM NO. F–19504
STATE OF TEXAS
JOHN THOMAS MEASELS
93278
LICENSED PROFESSIONAL ENGINEER
10/29/2019

LOT 90, BLOCK A, VAN BUREN ESTATES
NORTHWEST CORNER OF F.M.543 (WESTON ROAD) AND C.R.170 WESTON, TX 75097

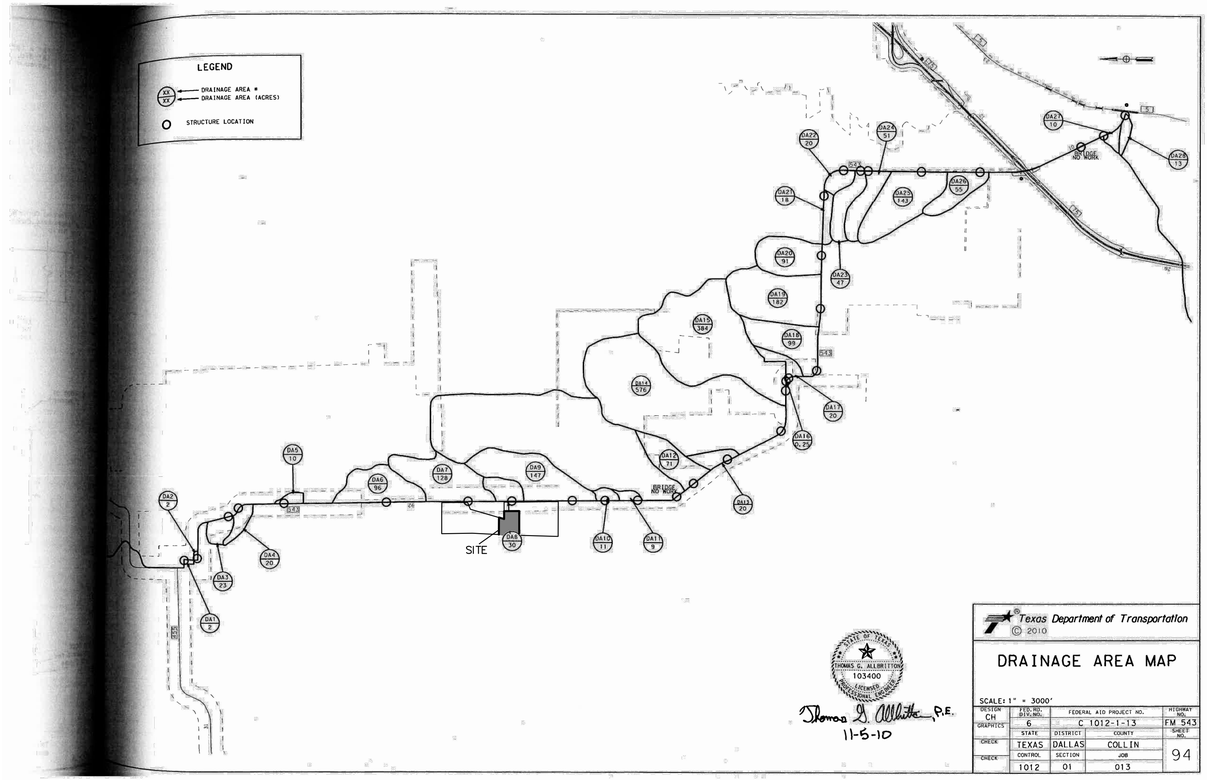
REV	DATE	DESCRIPTION	NAME
	10/29/19	AS BUILT	TWA

PROJECT NO: JM–R18001.0
DRAWN BY: TWA
CHECKED BY: AS
ISSUE DATE: 10/29/19

EROSION CONTROL PLAN

C2.0

J:\PRESIDENTIAL LAND\WESTON, TX – 170 & 543_CURRENT DRAWINGS LOT 90\DRAINAGE LOT 90.DWG 10/30/2019 10:16 AM TIM ANDRIES



Texas Department of Transportation
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DRAINAGE AREA MAP

SCALE: 1" = 3000'

DESIGN	FED.RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
CH	6	C 1012-1-13		FM 543
GRAPHICS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	COLLIN	94
CHECK	CONTROL	SECTION	JOB	
	1012	01	013	

Discharge Summary - Rational Method
CSJ: 1012-01-013

STR. #	AREA acres	tc min.	2 YR C	2 YR I in / hr	2 YR Q cfs	5 YR C	5 YR I in / hr	5 YR Q cfs	10 YR C	10 YR I in / hr	10 YR Q cfs	25 YR *C	25 YR I in / hr	25 YR Q cfs	50 YR *C	50 YR I in / hr	50 YR Q cfs	100 YR *C	100 YR I in / hr	100 YR Q cfs
2	2	21	0.50	3.7	3	0.50	4.7	4	0.50	5.6	4	0.55	6.5	5	0.60	7.3	7	0.63	8.0	7
3	23	39	0.30	2.6	18	0.30	3.3	22	0.30	3.9	27	0.33	4.5	34	0.36	5.1	42	0.38	5.6	48
4	20	42	0.30	2.4	15	0.30	3.1	19	0.30	3.7	22	0.33	4.3	28	0.36	4.8	35	0.38	5.3	40
5	10	40	0.30	2.5	7	0.30	3.2	9	0.30	3.8	11	0.33	4.4	14	0.36	5.0	17	0.38	5.5	20
6	96	40	0.30	2.5	73	0.30	3.2	93	0.30	3.8	111	0.33	4.5	141	0.36	5.0	173	0.38	5.5	198
7	128	53	0.30	2.1	80	0.30	2.7	102	0.30	3.2	122	0.33	3.7	156	0.36	4.1	191	0.38	4.6	219
8	30	36	0.30	2.7	25	0.30	3.4	31	0.30	4.1	37	0.33	4.7	47	0.36	5.3	58	0.38	5.8	66
9	147	59	0.30	1.9	85	0.30	2.5	109	0.30	3.0	131	0.33	3.4	157	0.36	3.9	204	0.38	4.3	234
10	11	27	0.30	3.2	11	0.30	4.1	13	0.30	4.9	16	0.33	5.7	20	0.36	6.4	25	0.38	7.0	28
11	9	41	0.30	2.5	7	0.30	3.2	8	0.30	3.8	10	0.33	4.4	13	0.36	4.9	16	0.38	5.4	18
12	71	50	0.30	2.2	46	0.30	2.8	59	0.30	3.3	70	0.33	3.8	89	0.36	4.3	110	0.38	4.7	126
13	22	55	0.30	2.0	14	0.30	2.6	18	0.30	3.1	21	0.33	3.6	27	0.36	4.0	33	0.38	4.5	37
16	0.25	10	0.30	5.5	0.4	0.30	6.8	1	0.30	8.1	1	0.33	9.4	1	0.36	10.5	1	0.38	11.6	1
17	20	51	0.30	2.2	13	0.30	2.8	17	0.30	3.3	20	0.33	3.8	26	0.36	4.3	31	0.38	4.7	35
18	99	58	0.30	2.0	59	0.30	2.5	75	0.30	3.0	90	0.33	3.5	114	0.36	3.9	140	0.38	4.3	160
19	182	67	0.30	1.8	97	0.30	2.3	124	0.30	2.7	149	0.33	3.2	190	0.36	3.6	232	0.38	3.9	267
20	91	52	0.30	2.1	58	0.30	2.7	74	0.30	3.2	88	0.33	3.7	113	0.36	4.2	138	0.38	4.6	158
21	18	47	0.30	2.3	12	0.30	2.9	16	0.30	3.5	19	0.33	4.0	24	0.36	4.5	29	0.38	5.0	33
22	20	29	0.30	3.1	19	0.30	3.9	24	0.30	4.7	28	0.33	5.4	36	0.36	6.1	44	0.38	6.7	51
23	47	49	0.30	2.2	31	0.30	2.8	40	0.30	3.4	47	0.33	3.9	60	0.36	4.4	74	0.38	4.8	84
24	51	48	0.30	2.2	34	0.30	2.8	43	0.30	3.4	52	0.33	3.9	66	0.36	4.4	81	0.38	4.8	93
25	143	58	0.30	2.0	84	0.30	2.5	107	0.30	3.0	128	0.33	3.5	163	0.36	3.9	200	0.38	4.3	229
26	55	61	0.30	1.9	31	0.30	2.4	40	0.30	2.9	48	0.33	3.4	61	0.36	3.8	75	0.38	4.2	86
27	10	23	0.50	3.6	18	0.50	4.5	23	0.50	5.4	27	0.55	6.2	35	0.60	7.0	43	0.63	7.7	49
28	13	60	0.30	1.9	7	0.30	2.5	9	0.30	2.9	11	0.33	3.4	14	0.36	3.8	18	0.38	4.2	20

DRAINAGE AREA OS 1
DRAINAGE AREA OS 2

*C = Adjusted Runoff Coefficient (Hydraulic Design Manual, page 5-31)

Discharge Summary - NRCS Method
CSJ: 1012-01-013

STR. #	AREA sq mi	tc min.	Curve #	2 YR Rainfall (P) in	2 YR Q cfs	5 YR Rainfall (P) in	5 YR Q cfs	10 YR Rainfall (P) in	10 YR Q cfs	25 YR Rainfall (P) in	25 YR Q cfs	50 YR Rainfall (P) in	50 YR Q cfs	100 YR Rainfall (P) in	100 YR Q cfs
14	0.98	83	80	2.04	415	3.24	664	4.14	847	5.25	1068	6.19	1259	7.14	1442
15	0.60	75	80	2.04	295	3.24	471	4.14	601	5.25	760	6.19	892	7.14	1025

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DISCHARGE SUMMARY

DESIGN	FED.RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
CH	6	C 1012-1-13		FM 543
GRAPHICS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DALLAS	COLLIN	95
CHECK	CONTROL	SECTION	JOB	
	1012	01	013	

AS BUILT
10/29/2019

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STATE OF TEXAS
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10/29/2019

LOT 90, BLOCK A, VAN BUREN ESTATES
NORTHWEST CORNER OF F.M.543 (WESTON ROAD)
AND C.R.170 WESTON, TX 75097

REV	DATE	DESCRIPTION	NAME
	10/29/19	AS BUILT	TWA

PROJECT NO: JM-RR18001.0
DRAWN BY: TWA
CHECKED BY: AS
ISSUE DATE: 10/29/19

OFFSITE DRAINAGE AREA MAP

C3.0

J:\PRESIDENTIAL LAND\WESTON, TX - 170 & 543_CURRENT DRAWINGS LOT 90\DRAINAGE LOT 90.DWG 10/30/2019 10:16 AM TIM ANDRES

CAUTION NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 14 DAYS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSE IMPROVEMENTS SHOWN ON THE PLANS.

BENCHMARKS

COLLIN COUNTY GPS MONUMENT NO.107.
STATE PLANE COORDINATES: N=7,162,670.5090 E=2,530,072.8220
ELEVATION=673.03'

TEMPORARY BENCHMARK.
TOP OF NORTH END OF CONCRETE HEADWALL ON WEST SIDE OF F.M. 543 (WESTON ROAD) APPROXIMATELY 1,067' SOUTH OF THE NORTHEAST CORNER OF THE SUBJECT PROPERTY.
APPROXIMATE STATE PLANE COORDINATES: N=7,166,417.1± E=2,529,937.4±
ELEVATION=684.71'

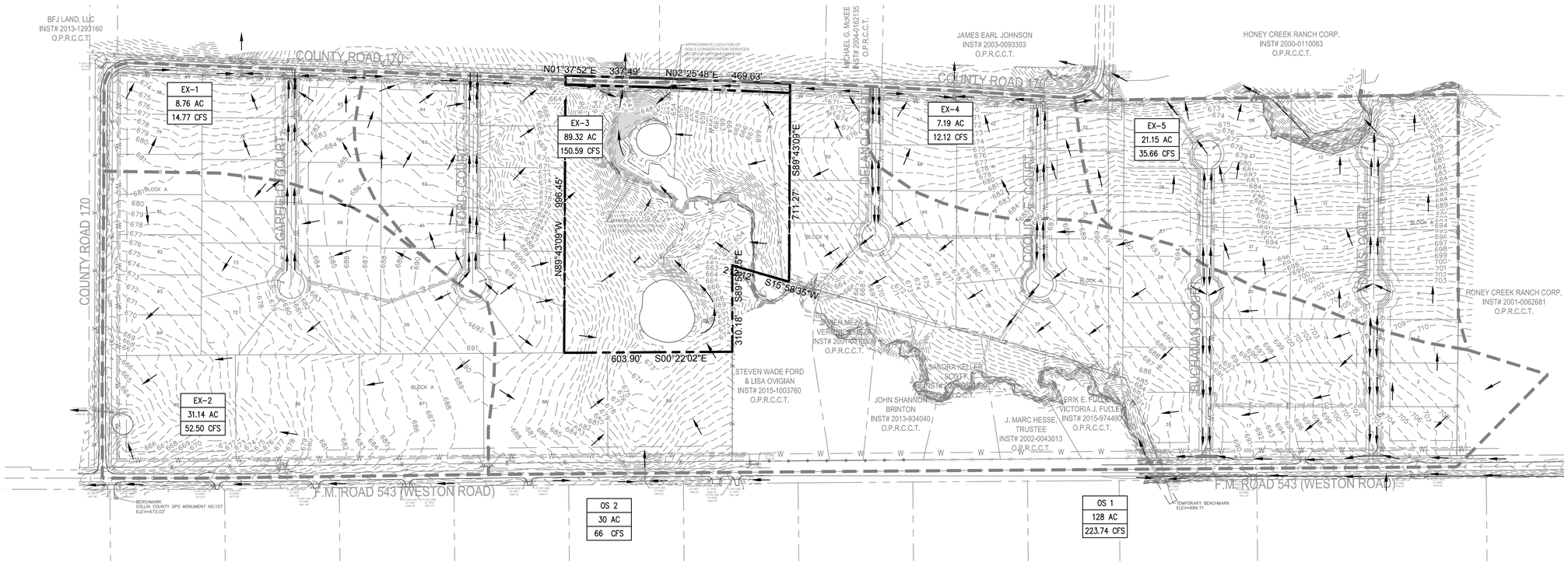
LEGEND:

- - - - - DRAINAGE DIVIDE

X
X.XXX AC
X.XX CFS

Area Designation
Acreage
Q_{100}

GRAPHIC SCALE
200 0 100 200
(IN FEET)
1 inch = 200 ft.



PRE-DEVELOPMENT DRAINAGE AREA COMPUTATIONS

Design Point ID	Runoff Coef. "C"	Area "A" (Acres)	Time of Concentration (min.)	Intensity I-10yr (in/hr)	Discharge Q-10yr (cfs)	Intensity I-100yr (in/hr)	Discharge Q-100yr (cfs)	Inlet Type
1	2	3	5	8	9	10	11	12
EX-1	0.30	8.76	30	3.89	10.22	5.62	14.77	
EX-2	0.30	31.14	30	3.89	36.34	5.62	52.50	EX. PIPE CULVERT
EX-3	0.30	89.32	30	3.89	104.24	5.62	150.59	EX. PIPE CULVERT
EX-4	0.30	7.19	30	3.89	8.39	5.62	12.12	EX. PIPE CULVERT
EX-5	0.30	21.15	30	3.89	24.68	5.62	35.66	EX. PIPE CULVERT
TOTAL		148.80			173.65		250.88	

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10/29/2019

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REV	DATE	DESCRIPTION	NAME
	10/29/19	AS BUILT	TWA

PROJECT NO: JM-RR18001.0
DRAWN BY: TWA
CHECKED BY: AS
ISSUE DATE: 10/29/19

PRE-DEV DRAINAGE AREA MAP

C3.1

J:\RESIDENTIAL LAND\WESTON, TX - 170 & 543_CURRENT DRAWINGS LOT 90\DRAINAGE LOT 90.DWG 10/30/2019 10:16 AM TIM ANDRIES

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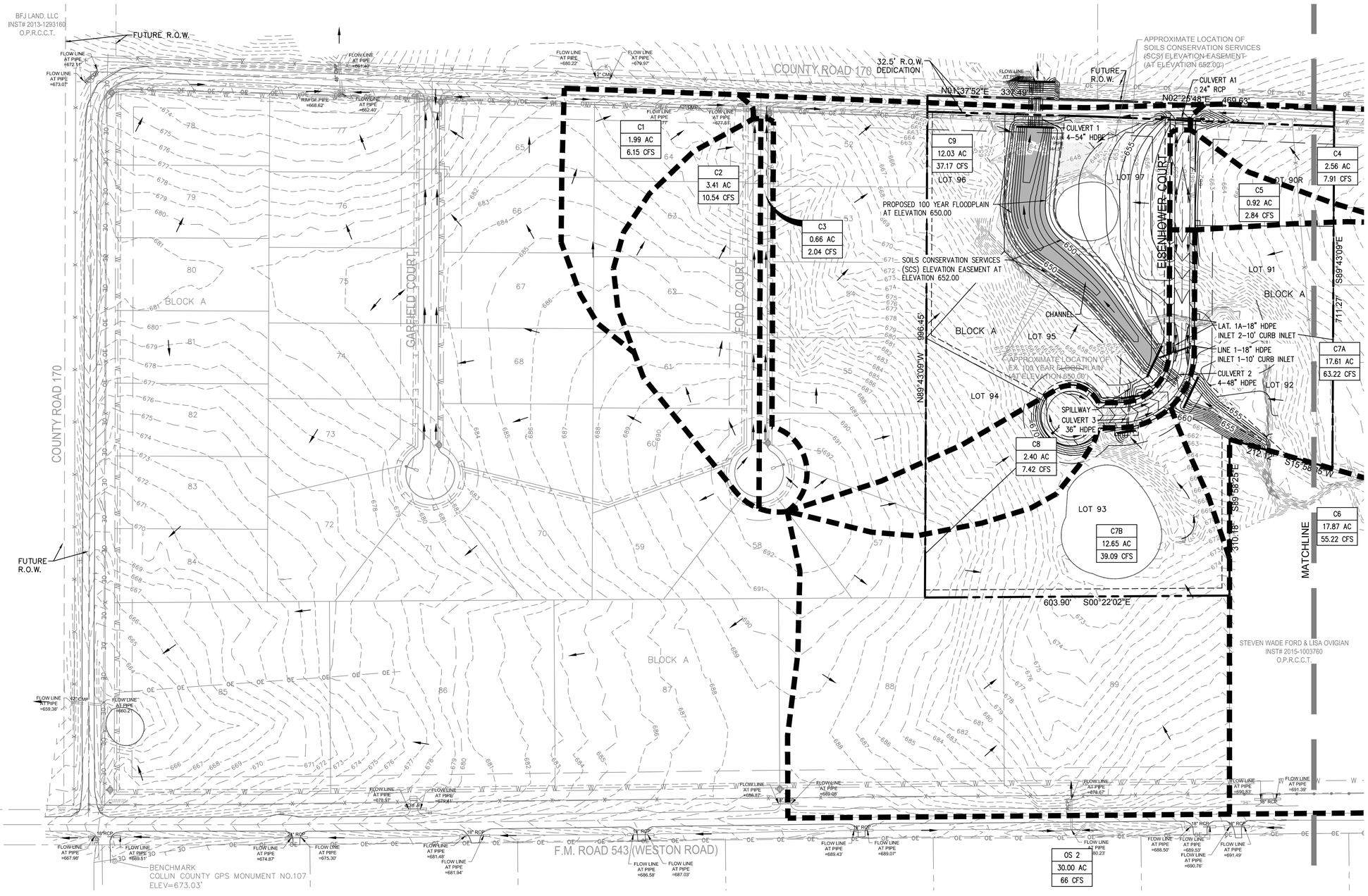
ELEVATION=684.71'

GRAPHIC SCALE
100 0 50 100
(IN FEET)
1 inch = 100 ft.



LEGEND:

DRAINAGE DIVIDE

X — Area Designation
X.XXX AC — Acreage
X.XX CFS — Q_{100}

ZONING: RED-1

NOTE:
EXISTING CONDITION 100 YEAR WATER STORAGE VOLUME AT ELEVATION 650.00 = 53,403 C.F.
PROPOSED CONDITION 100 YEAR WATER STORAGE VOLUME AT ELEVATION 650.00 = 54,806 C.F.

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REV	DATE	DESCRIPTION	NAME
	10/29/19	AS BUILT	TWA

PROJECT NO: JM-RR18001.0
DRAWN BY: TWA
CHECKED BY: AS
ISSUE DATE: 10/29/19

DRAINAGE AREA MAP (1 OF 2)

C3.2

J:\PRESIDENTIAL LAND\WESTON, TX - 170 & 543_CURRENT DRAWINGS LOT 90\DRAINAGE LOT 90.DWG 10/30/2019 10:16 AM TIM ANDRES

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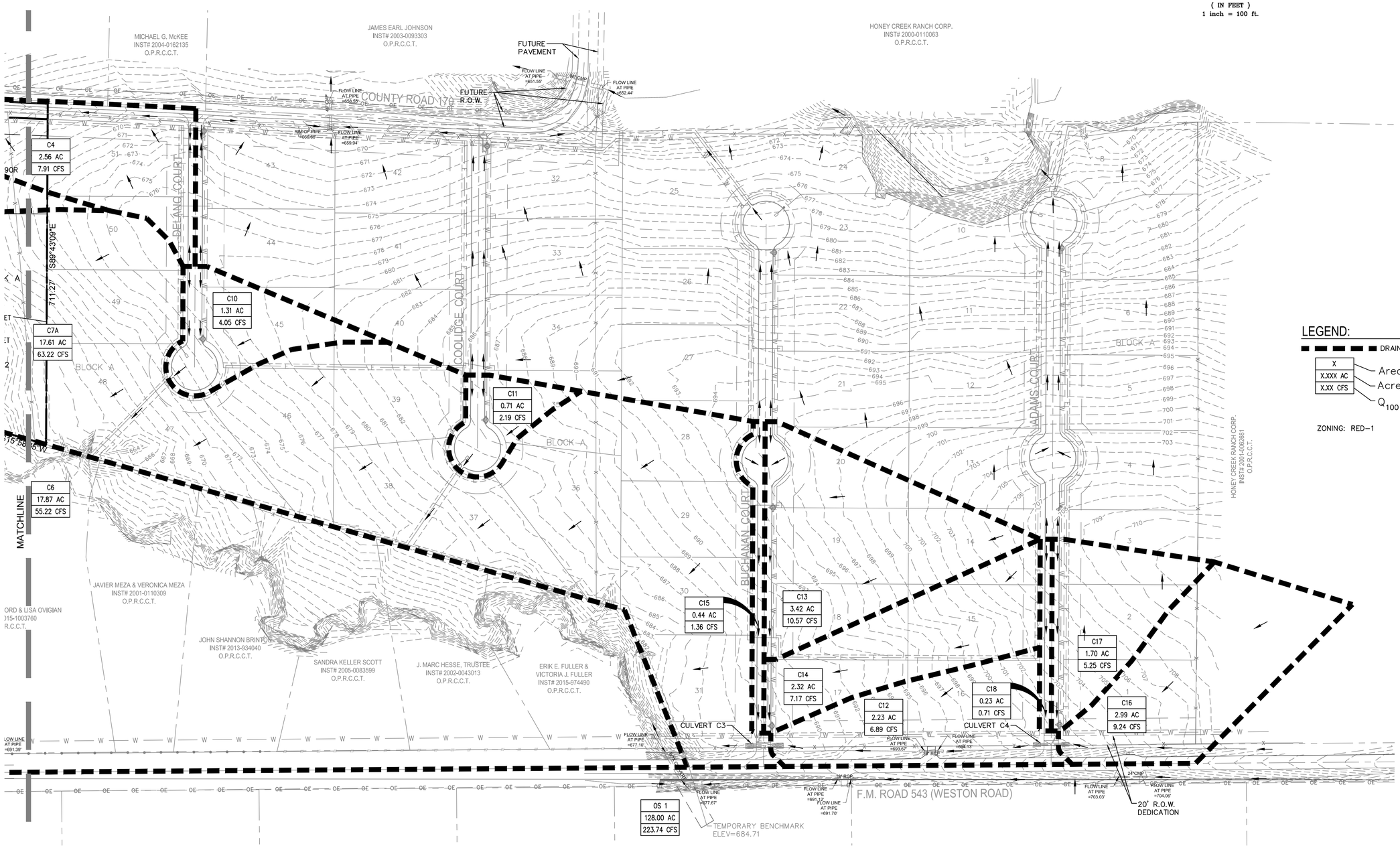
GRAPHIC SCALE
100 0 50 100
(IN FEET)
1 inch = 100 ft.



LEGEND:

DRAINAGE DIVIDE

X — Area Designation
X.XXX AC — Acreage
X.XX CFS — Q_{100}

ZONING: RED-1

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AS BUILT
10/29/2019

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REV	DATE	DESCRIPTION	NAME
	10/29/19	AS BUILT	TWA

PROJECT NO: JM-RR18001.0
DRAWN BY: TWA
CHECKED BY: AS
ISSUE DATE: 10/29/19

DRAINAGE AREA MAP (2 OF 2)

C3.3

J:\PRESIDENTIAL LAND\WESTON, TX - 170 & 543_CURRENT DRAWINGS LOT 90\DRAINAGE LOT 90.DWG 10/30/2019 10:16 AM TIM ANDRIES

POST DEVELOPMENT DRAINAGE AREA COMPUTATIONS FOR CULVERT 1 (4-54")

	Design Point ID	Runoff Coef. "C"	Area "A" (Acres)	Time of Concentration (min.)	Intensity I-10yr (in/hr)	Discharge Q-10yr (cfs)	Intensity I-100yr (in/hr)	Discharge Q-100yr (cfs)	TOTAL BASIN Q-100yr (cfs)
	1	2	3	5	8	9	10	11	12
BASIN C	C1	0.50	1.99	30	3.89	3.87	5.62	5.59	CHANNEL-CULVERT 1
	C2	0.50	3.41	30	3.89	6.63	5.62	9.58	CHANNEL/CULVERT 1
	C3	0.50	0.66	30	3.89	1.28	5.62	1.85	CHANNEL-CULVERT 1
	C4	0.50	2.56	30	3.89	4.98	5.62	7.19	CULVERT A1-CULVERT 1
	C5	0.50	0.92	30	3.89	1.79	5.62	2.59	CHANNEL-CULVERT 1
	C6	0.50	17.87	30	3.89	34.76	5.62	50.21	CULVERT 2-CHANNEL-CULVERT 1
	C7A	0.50	17.61	30	3.89	34.25	5.62	49.48	CULVERT 2-CHANNEL-CULVERT 1
	C7B	0.50	12.65	30	3.89	24.60	5.62	35.55	CULVERT 3-CHANNEL-CULVERT 1
	C8	0.50	2.40	30	3.89	4.67	5.62	6.74	LINE 1, LAT 1A-CHANNEL-CULVERT 1
	C9	0.50	12.03	30	3.89	23.40	5.62	33.80	CHANNEL-CULVERT 1
	C10	0.50	1.31	30	3.89	2.55	5.62	3.68	CULVERT 2-CHANNEL-CULVERT 1
	C11	0.50	0.71	30	3.89	1.38	5.62	2.00	CULVERT 2-CHANNEL-CULVERT 1
	C12	0.50	2.23	30	3.89	4.34	5.62	6.27	CULVERT 2-CHANNEL-CULVERT 1
	C13	0.50	3.42	30	3.89	6.65	5.62	9.61	CULVERT 2-CHANNEL-CULVERT 1
	C14	0.50	2.32	30	3.89	4.51	5.62	6.52	CULVERT 2-CHANNEL-CULVERT 1
	C15	0.50	0.44	30	3.89	0.86	5.62	1.24	CULVERT 2-CHANNEL-CULVERT 1
	C16	0.50	2.99	30	3.89	5.82	5.62	8.40	CULVERT 2-CHANNEL-CULVERT 1
	C17	0.50	1.70	30	3.89	3.31	5.62	4.78	CULVERT 2-CHANNEL-CULVERT 1
	C18	0.50	0.23	30	3.89	0.45	5.62	0.65	CULVERT 2-CHANNEL-CULVERT 1
	TOTAL		87.45			170.09		245.73	
OFFSITE (EAST OF FM 543)	OS 1	0.38	128.00	53	3.2	155.65	4.6	223.74	CULVERT 2-CHANNEL-CULVERT 1
	OS 2	0.38	30.00	36	4.1	46.74	5.8	66.12	CHANNEL-CULVERT 1
	TOTAL		158.00			202.39		289.86	
	TOTAL		245.45			372.48		535.60	TOTAL Q INTO CULVERT 1

RUNOFF CALCULATIONS FOR CULVERT 2 (4-48")

POST DEVELOPMENT DRAINAGE AREA COMPUTATIONS

Design Point ID	Runoff Coef. "C"	Area "A" (Acres)	Time of Concentration (min.)	Intensity I-10yr (in/hr)	Discharge Q-10yr (cfs)	Intensity I-100yr (in/hr)	Discharge Q-100yr (cfs)	TOTAL BASIN Q-100yr (cfs)
1	2	3	5	8	9	10	11	12
C6	0.50	17.87	25	4.31	38.51	6.18	55.22	CULVERT 2-CHANNEL-CULVERT 1
C7A	0.50	17.61	25	4.31	37.95	7.18	63.22	CULVERT 2-CHANNEL-CULVERT 1
C10	0.50	1.31	25	4.31	2.82	6.18	4.05	CULVERT 2-CHANNEL-CULVERT 1
C11	0.50	0.71	25	4.31	1.53	6.18	2.19	CULVERT 2-CHANNEL-CULVERT 1
C12	0.50	2.23	25	4.31	4.81	6.18	6.89	CULVERT 2-CHANNEL-CULVERT 1
C13	0.50	3.42	25	4.31	7.37	6.18	10.57	CULVERT 2-CHANNEL-CULVERT 1
C14	0.50	2.32	25	4.31	5.00	6.18	7.17	CULVERT 2-CHANNEL-CULVERT 1
C15	0.50	0.44	25	4.31	0.95	6.18	1.36	CULVERT 2-CHANNEL-CULVERT 1
C16	0.50	2.99	25	4.31	6.44	6.18	9.24	CULVERT 2-CHANNEL-CULVERT 1
C17	0.50	1.70	25	4.31	3.66	6.18	5.25	CULVERT 2-CHANNEL-CULVERT 1
C18	0.50	0.23	25	4.31	0.50	6.18	0.71	CULVERT 2-CHANNEL-CULVERT 1
TOTAL		50.83			109.54		165.87	

OFFSITE (EAST OF FM 543)	OS 1	0.38	128.00	53	3.2	155.65	4.6	223.74	CULVERT 2-CHANNEL-CULVERT 1
	TOTAL		128.00			155.65		223.74	
	TOTAL		178.83			265.19		389.61	TOTAL Q INTO CULVERT 2

RUNOFF CALCULATIONS FOR SPILLWAY CULVERT 3, LINE 1 & LAT. 1A

POST DEVELOPMENT DRAINAGE AREA COMPUTATIONS

Design Point ID	Runoff Coef. "C"	Area "A" (Acres)	Time of Concentration (min.)	Intensity I-10yr (in/hr)	Discharge Q-10yr (cfs)	Intensity I-100yr (in/hr)	Discharge Q-100yr (cfs)	TOTAL BASIN Q-100yr (cfs)
1	2	3	5	8	9	10	11	12
C4	0.50	2.56	10	6.54	8.37	9.20	11.78	CULVERT A1
C7B	0.50	12.65	10	6.54	41.37	9.20	58.19	CULVERT 3
C8	0.50	2.40	10	6.54	7.85	9.20	11.04	LINE 1, LAT. 1A

AS BUILT
10/29/2019

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JM CIVIL Engineering
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Ph. 214-491-1830
John Measels, PE
CIVIL ENGINEER
FIRM NO. 19504
FIRM NO. F-19504

STATE OF TEXAS
JOHN THOMAS MEASELS
93278
PROFESSIONAL ENGINEER
10/29/2019

LOT 90, BLOCK A, VAN BUREN ESTATES
NORTHWEST CORNER OF F.M.543 (WESTON ROAD)
AND C.R.170 WESTON, TX 75097

REV	DATE	DESCRIPTION	NAME
	10/29/19	AS BUILT	TWA

PROJECT NO: JM-RR18001.0
DRAWN BY: TWA
CHECKED BY: AS
ISSUE DATE: 10/29/19

DRAINAGE CALCULATIONS

C3.4

J:\PRESIDENTIAL LAND\WESTON, TX - 170 & 543_CURRENT DRAWINGS LOT 90\DRAINAGE LOT 90.DWG 10/30/2019 10:16 AM TIM ANDRIES

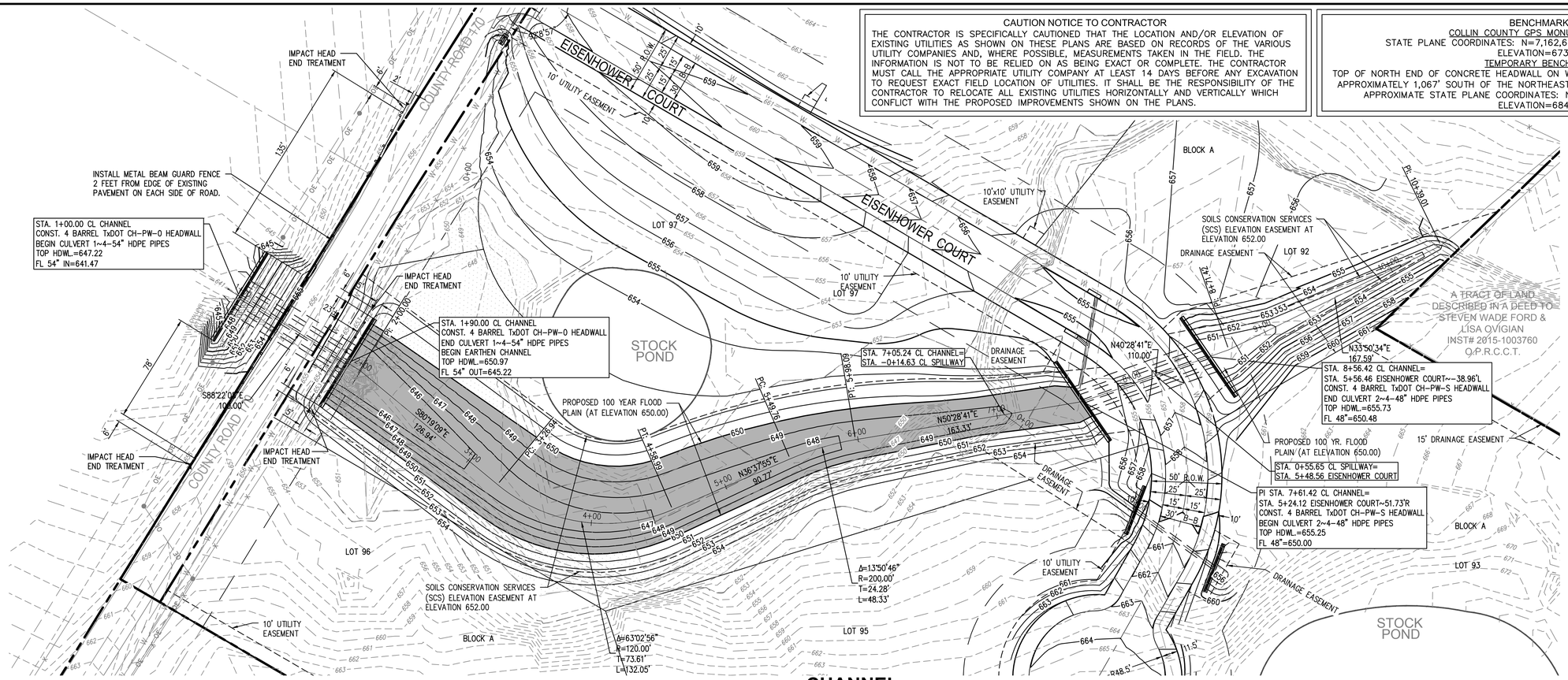
CAUTION NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 14 DAYS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES HORIZONTALLY AND VERTICALLY WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

BENCHMARKS

COLLIN COUNTY GPS MONUMENT NO.107.
STATE PLANE COORDINATES: N=7,162,670.5090 E=2,530,072.8220
ELEVATION=673.03'

TEMPORARY BENCHMARK.
TOP OF NORTH END OF CONCRETE HEADWALL ON WEST SIDE OF F.M. 543 (WESTON ROAD) APPROXIMATELY 1,067' SOUTH OF THE NORTHEAST CORNER OF THE SUBJECT PROPERTY.
APPROXIMATE STATE PLANE COORDINATES: N=7,166,417.1± E=2,529,937.4±
ELEVATION=684.71'



CHANNEL

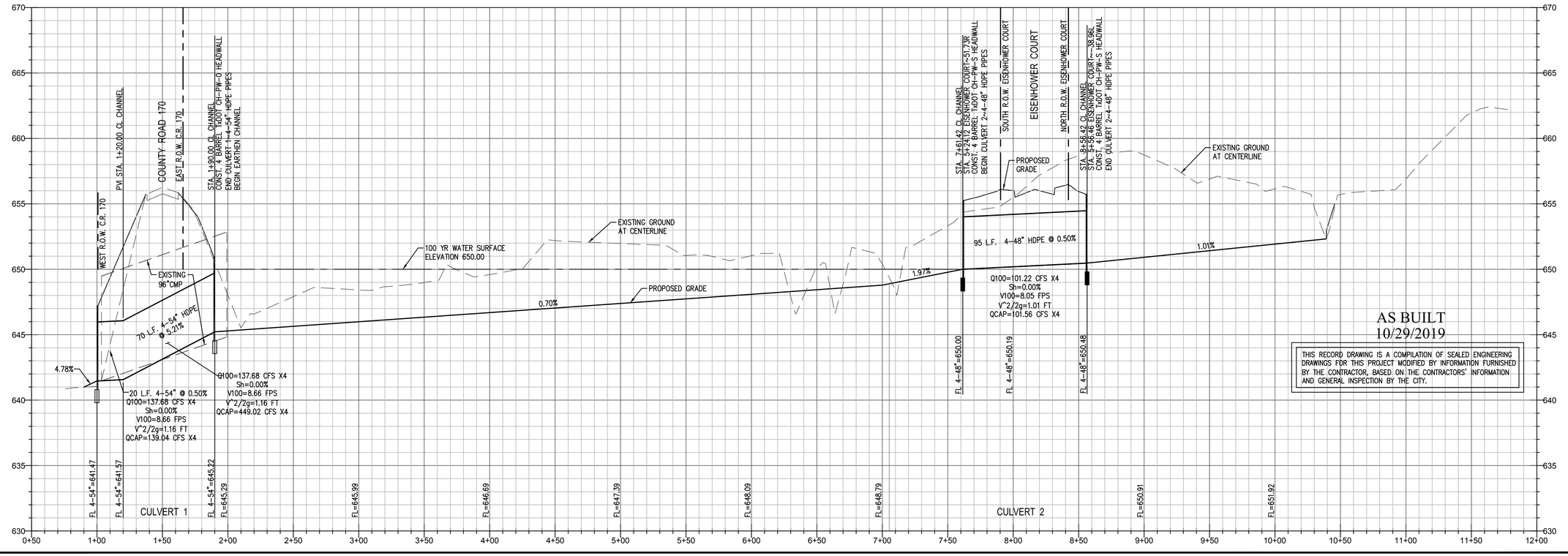
GRAPHIC SCALE
40 0 20 40
(IN FEET)
1 inch = 40 ft.

Know what's **below.**
Call before you dig.

NOTE:
ALL CONCRETE STRUCTURES SHALL BE 3,600 PSI COMPRESSIVE STRENGTH.

PROPOSED 100 YEAR FLOOD PLAIN

NOTE:
EXISTING CONDITION 100 YEAR WATER STORAGE VOLUME AT ELEVATION 650.00 = 53,403 C.F.
PROPOSED CONDITION 100 YEAR WATER STORAGE VOLUME AT ELEVATION 650.00 = 54,806 C.F.



AS BUILT
10/29/2019

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REGISTERED PROFESSIONAL ENGINEER
10/29/2019

LOT 90, BLOCK A, VAN BUREN ESTATES
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REV	DATE	DESCRIPTION	NAME
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STORM SEWER~CHANNEL

C4.0

J:\PRESIDENTIAL LAND\WESTON, TX - 170 & 543_CURRENT DRAWINGS LOT 90\STORM LOT 90.DWG 10/30/2019 10:04 AM TIM ANDRES

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BENCHMARKS

COLLIN COUNTY GPS MONUMENT NO.107.
STATE PLANE COORDINATES: N=7,162,670.5090 E=2,530,072.8220
ELEVATION=673.03'
TEMPORARY BENCHMARK.
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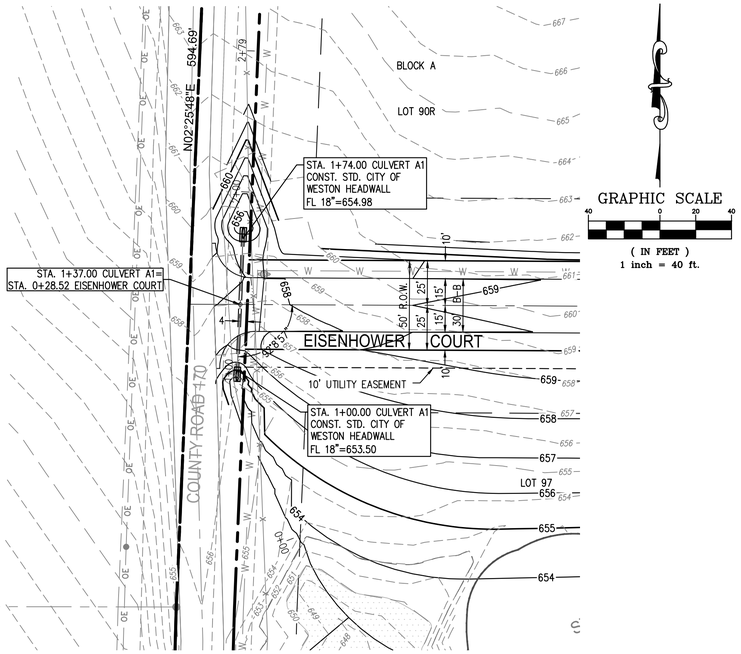
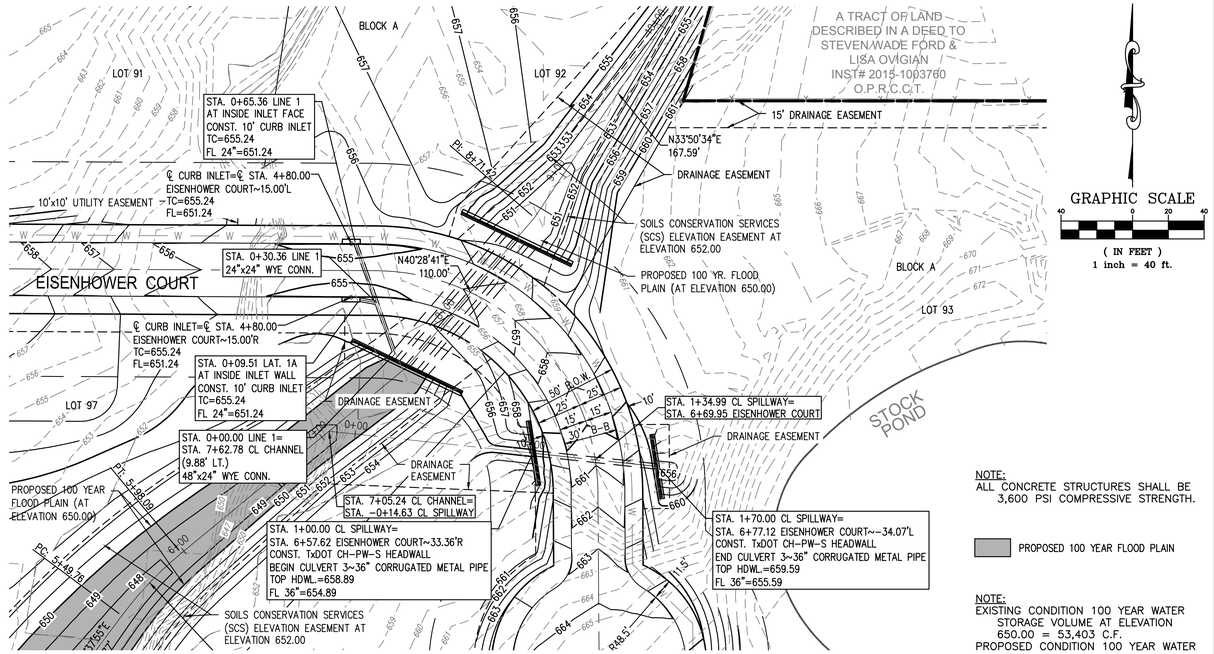
ELEVATION=684.71'

811 Know what's **below.** **Call** before you dig.



CULVERT A1



SPILLWAY, LINE 1 AND LAT. 1A

NOTE:
ALL CONCRETE STRUCTURES SHALL BE 3,600 PSI COMPRESSIVE STRENGTH.

PROPOSED 100 YEAR FLOOD PLAIN

NOTE:
EXISTING CONDITION 100 YEAR WATER STORAGE VOLUME AT ELEVATION 650.00 = 53,403 C.F.
PROPOSED CONDITION 100 YEAR WATER STORAGE VOLUME AT ELEVATION 650.00 = 54,806 C.F.

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10/29/2019

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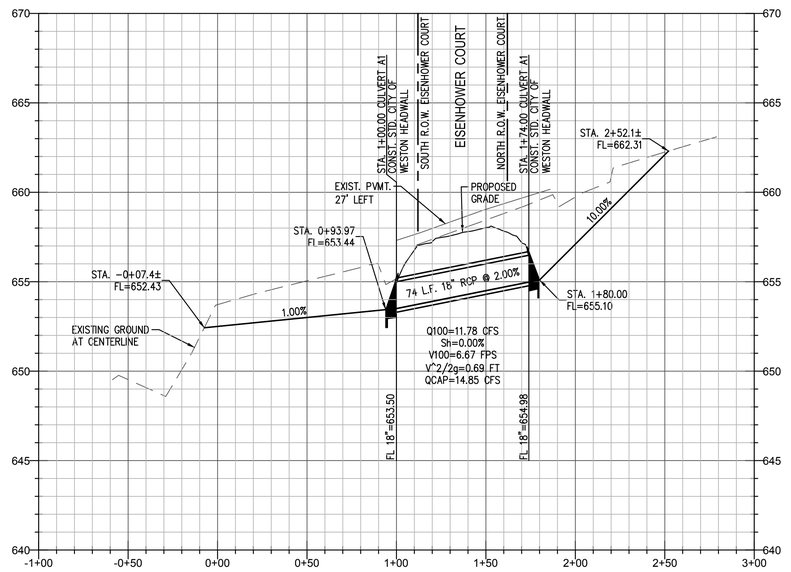
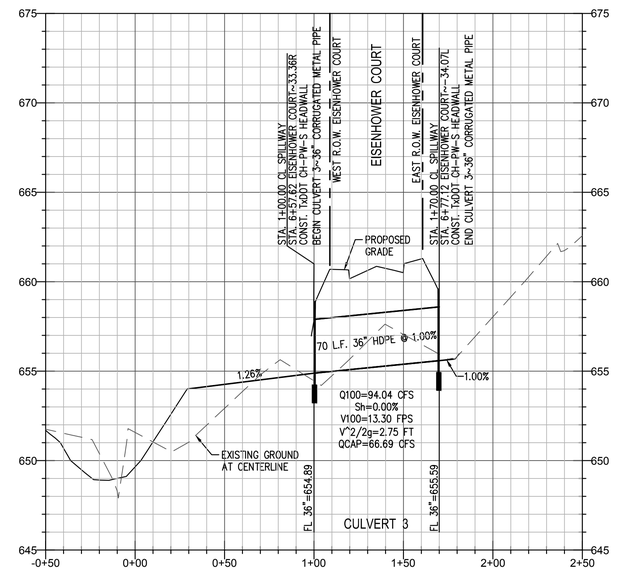
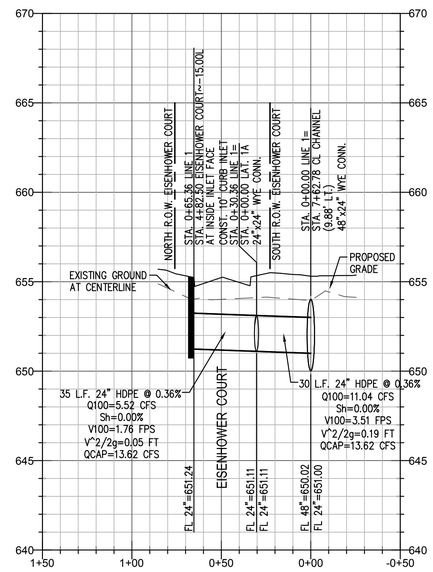


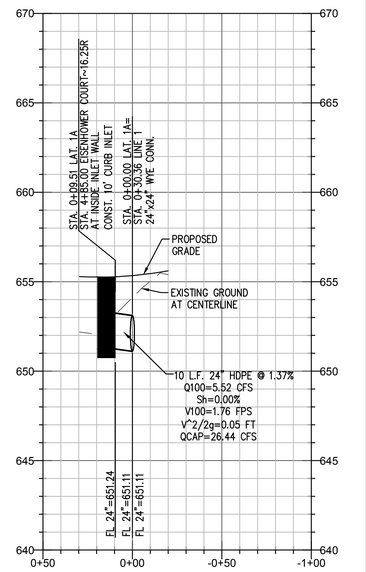
CULVERT A1



CL SPILLWAY



LINE 1



LAT. 1A

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STATE OF TEXAS
JOHN THOMAS MEASELS
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REGISTERED
PROFESSIONAL ENGINEER
10/29/2019

LOT 90, BLOCK A, VAN BUREN ESTATES
NORTHWEST CORNER OF F.M.543 (WESTON ROAD) AND C.R.170 WESTON, TX 75097

REV	DATE	DESCRIPTION	NAME
	10/29/19	AS BUILT	TWA

PROJECT NO: JM-RR18001.0
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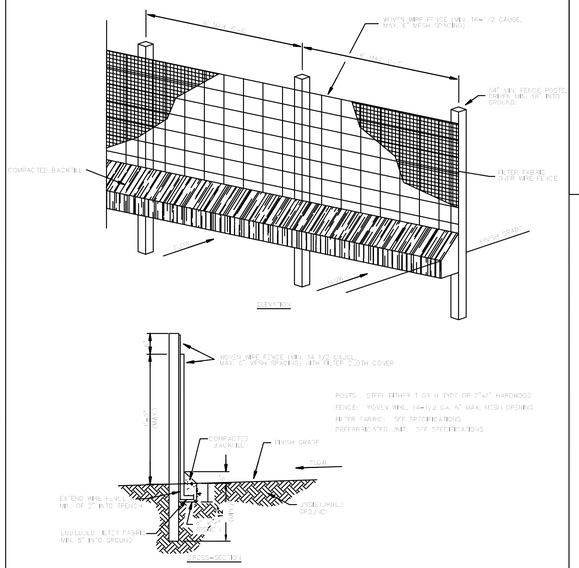
CHECKED BY: AS
ISSUE DATE: 10/29/19

STORM SEWER-CULV.A1, LN.1, SPILLWAY

C4.1

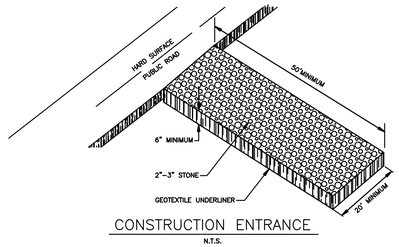
J:\PRESIDENTIAL LAND\WESTON, TX - 170 & 543_CURRENT DRAWINGS_LOT 90\STORM LOT 90.DWG 10/30/2019 10:05 AM TIM ANDRIES



1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO LEVEL POSTS WITH WIRE TIES OR STAPLES.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
4. MAINTENANCE SHALL BE PERFORMED AS NOTED IN THE EROSION CONTROL PLAN. CONSTRUCTED MATERIAL SHALL BE REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

SILT FENCE

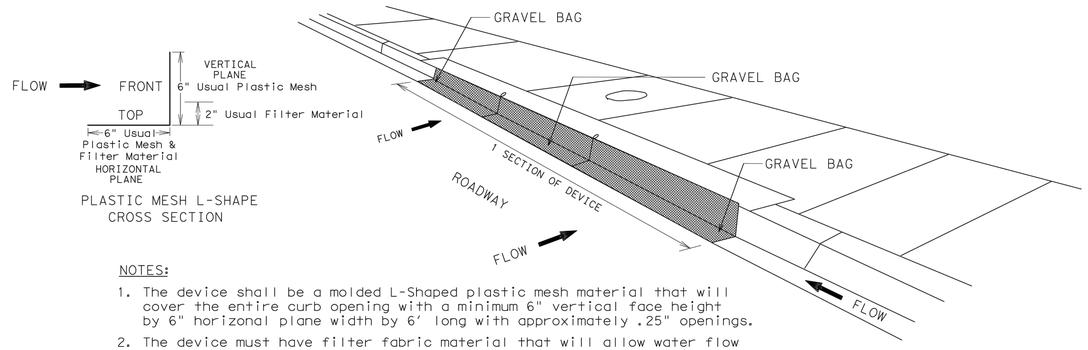
N.T.S.



CONSTRUCTION ENTRANCE

N.T.S.

clsedprot.dgn



PLASTIC MESH L-SHAPE CROSS SECTION

NOTES:

1. The device shall be a molded L-Shaped plastic mesh material that will cover the entire curb opening with a minimum 6" vertical face height by 6" horizonal plane width by 6' long with approximately .25" openings.
2. The device must have filter fabric material that will allow water flow but stop sediment. It will extend from bottom up vertical plane a minimum of 2" and full width of horizontal bottom plane. The filter fabric shall be attached to the back of the plastic mesh. It shall not cover more than 1/3 of the height of the vertical plane opening to allow overflow in larger strom events to prevent flooding of travel lanes.

Filter Fabric Physical Requirements Table

Apparent Opening Size (AOS)	400 to 600 microns
Percent Open Area (POA)	>10%
Flow Rate	130 gallons per SF per minute with clean water or greater.

3. Place with horizontal plane pointing away from curb.
4. For high openings, the device or attachment should extend above opening.
5. For long curb openings, overlap the segments 6". Tie together with 4 zip ties in 4 places, 2 at the top and 2 at the bottom.
6. Install gravel, not sand, bags at each end, at overlaps and in the middle of each section. Use 1/3 full bags for low profile and best traffic avoidance.
7. Use bags that will have long-term resistance to UV exposure.
8. Sediment should be removed and device cleaned when sediment reaches 1" in depth.

REVISED ON 9/10/08

© Texas Department of Transportation

DALLAS DISTRICT STANDARD

TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES

CURB INLET SEDIMENT PROTECTION

FED. RD. DIV. NO.	PROJECT NUMBER	SHEET NUMBER
18		00

STATE	DISTRICT	COUNTY
TEXAS	DALLAS	DALLAS

CONTROL	SECTION	JOB	HIGHWAY NUMBER
0000	00	000	IH/SH/FM

FILENAME = filler

AS BUILT
10/29/2019

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John Measels, PE
CIVIL ENGINEER

FIRM NO. 19504

FIRM NO. F-19504

STATE OF TEXAS
JOHN THOMAS MEASELS
93278
LICENSED PROFESSIONAL ENGINEER
10/29/2019

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NORTHWEST CORNER OF F.M.543 (WESTON ROAD) AND C.R.170 WESTON, TX 75097

REV	DATE	DESCRIPTION	NAME
	10/29/19	AS BUILT	TWA

PROJECT NO: JM-RR18001.0
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CHECKED BY: AS
ISSUE DATE: 10/29/19

DETAILS

C5.0

J:\PRESIDENTIAL LAND\WESTON, TX - 170 & 543_CURRENT DRAWINGS LOT 90\DETAILS LOT 90.DWG 10/29/2019 6:02 PM TIM ANDRIES

GENERAL SITE NOTES:

1. PRIOR TO STARTING CONSTRUCTION, THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THAT ALL NECESSARY PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION SHALL BEGIN UNTIL ALL PERMITS HAVE BEEN RECEIVED.
2. SITE BOUNDARY, TOPOGRAPHY, UTILITY AND ROAD INFORMATION WAS TAKEN FROM A SURVEY BY TEXAS HERITAGE SURVEYING, LLC, 10610 METRIC DRIVE, SUITE 124, DALLAS, TX 75243. PHONE: (214) 340–9700.
3. IF THE CONTRACTOR, IN THE COURSE OF THE WORK, FINDS ANY DISCREPANCIES BETWEEN THE PLANS AND THE PHYSICAL CONDITIONS OF THE LOCALITY, OR ANY ERRORS OR OMISSIONS IN THE PLANS OR IN THE LAYOUT AS GIVEN BY THE ENGINEER, IT SHALL BE HIS DUTY TO IMMEDIATELY INFORM THE ENGINEER, IN WRITING, AND THE ENGINEER WILL PROMPTLY VERIFY THE SAME. ANY WORK DONE AFTER SUCH A DISCOVERY, UNTIL AUTHORIZED, WILL BE AT THE CONTRACTOR'S RISK.
4. CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF VESTIBULES, SLOPE PAVING, SIDEWALKS, EXIT PORCHES, TRUCK DOCKS, PRECISE BUILDING DIMENSIONS AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL SETBACKS, EASEMENTS, AND DIMENSIONS SHOWN HEREON BEFORE BEGINNING CONSTRUCTION.
6. ALL CONSTRUCTION MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE TO THE STATE AND AUTHORITY HAVING JURISDICTION (AHJ) LATEST CONSTRUCTION SPECIFICATIONS AND DETAILS.
7. ALL HANDICAP SITE FEATURES SHALL BE CONSTRUCTED TO MEET ALL FEDERAL, STATE AND AHJ CODE.
8. NOTIFY THE CITY INSPECTOR TWENTY–FOUR (24) HOURS BEFORE BEGINNING EACH PHASE OF CONSTRUCTION.
9. THE CONTRACTOR SHALL CAREFULLY PRESERVE BENCHMARKS, REFERENCE POINTS, AND STAKES.
10. ARCHITECTURAL AND STRUCTURAL PLANS ARE TO BE USED FOR BUILDING STAKE OUT.
11. ALL DIMENSIONS ARE FROM FACE OF BUILDING, CURB, AND WALL UNLESS OTHERWISE SPECIFIED ON PLANS.
12. CONTRACTOR SHALL MAINTAIN THE SITE IN A MANNER SO THAT WORKMEN AND PUBLIC SHALL BE PROTECTED FROM INJURY, AND ADJOINING PROPERTY PROTECTED FROM DAMAGE.
13. CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO ANY EXISTING ITEM AND/OR MATERIAL INSIDE OR OUTSIDE CONTRACT LIMITS DUE TO CONSTRUCTION OPERATION.
14. ALL STREET SURFACES, DRIVEWAYS, CULVERTS, CURB AND GUTTERS, ROADSIDE DRAINAGE DITCHES AND OTHER STRUCTURES THAT ARE DISTURBED OR DAMAGED IN ANY MANNER AS A RESULT OF CONSTRUCTION SHALL BE REPLACED OR REPAIRED IN ACCORDANCE WITH THE SPECIFICATIONS.
15. FOR WORK IN, OR ADJACENT TO, HIGHWAY RIGHT OF WAYS, CONTRACTOR SHALL ENSURE APPROPRIATE PERMITS ARE OBTAINED PRIOR TO CONSTRUCTION. CONTRACTOR TO ERECT AND MAINTAIN TRAFFIC CONTROL SIGNS AND DEVICES IN CONFORMANCE WITH THE STATE MANUAL OF TRAFFIC CONTROL DEVICES, LATEST EDITION, ALONG WITH THE REQUIREMENTS OF THE LOCAL D.O.T. AREA OFFICE.
16. ALL CURB RADII SHALL BE 3' OR 10' UNLESS OTHERWISE NOTED ON THE PLANS.
17. DIMENSIONS AND RADII ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED.

GENERAL PAVING NOTES:

1. CONTRACTOR MUST SECURE ALL NECESSARY PERMITS PRIOR TO STARTING WORK.
2. REFER TO GEOTECH REPORT FOR PREPARATION OF THE SUBGRADE.
3. ALL HANDICAP PARKING SPACES SHALL BE CONSTRUCTED TO MEET ALL FEDERAL, STATE AND AUTHORITY HAVING JURISDICTION (AHJ) CODE.
4. ALL ROAD WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE STATE AND (AHJ) SPECIFICATIONS.

GENERAL EROSION CONTROL NOTES:

1. ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORM WATER POLLUTION PREVENTION SHALL OBTAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN AND BECOME FAMILIAR WITH AUTHORITY HAVING JURISDICTION (AHJ) REGULATION AND PERMITTING.
2. CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED BY THE SWPPP. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST OF OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
3. BEST MANAGEMENT PRACTICES (BMP'S) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR (AHJ) REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY PERMITTING AGENCY OR OWNER.
4. SITE MAP MUST CLEARLY DELINEATE ALL STATE WATERS. PERMITS FOR ANY CONSTRUCTION ACTIVITY IMPACTING STATE WATERS OR REGULATED WETLANDS MUST BE MAINTAINED ON SITE AT ALL TIMES.
5. CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE GENERAL PERMIT.
6. GENERAL CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA, AND AREA FOR LOCATING PORTABLE FACILITIES, OFFICE TRAILERS, AND TOILET FACILITIES.
7. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.
8. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READLY AVAILABLE TO CONTAIN AND CLEAN–UP FUEL OR CHEMICAL SPILLS AND LEAKS.
9. DUST ON THE SITE SHALL BE CONTROLLED. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.
10. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORMWATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.
11. ALL STORM WATER POLLUTION PREVENTION MEASURES PRESENTED ON THIS PLAN SHALL BE INITIATED AS SOON AS PRACTICABLE.
12. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS STOPPED FOR AT LEAST 14 DAYS, SHALL BE TEMPORARILY SEEDED. THESE AREAS SHALL BE SEEDED NO LATER THAN 14 DAYS FROM THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS.
13. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY SEEDED. THESE AREAS SHALL BE SEEDED NO LATER THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS. REFER TO THE GRADING PLAN AND/OR LANDSCAPE PLAN.
14. IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION ENTRANCES IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE.
15. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
16. CONTRACTORS OR SUBCONTRACTORS WILL BE RESPONSIBLE FOR REMOVING SEDIMENT IN THE DETENTION POND AND ANY SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM SEWER DRAINAGE SYSTEMS IN CONJUNCTION WITH THE STABILIZATION OF THE SITE.
17. ON–SITE & OFFSITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE SITE MAP AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS.
18. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION. SLOPES LEFT EXPOSED WILL, WITHIN 14 CALENDAR DAYS OF COMPLETION OF ANY PHASE OF GRADING, BE PLANTED OR OTHERWISE PROVIDED WITH TEMPORARY OR PERMANENT GROUND COVER, DEVICES, OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION.
19. DUE TO THE GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION CONTROL MEASURES (SILT FENCES, STRAW BALES, ETC.) TO PREVENT EROSION.
20. ALL CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH WORKING DAY, THIS INCLUDES BACKFILLING OF TRENCHES FOR UTILITY CONSTRUCTION AND PLACEMENT OF GRAVEL OR BITUMINOUS PAVING FOR ROAD CONSTRUCTION.

GENERAL DEMOLITION NOTES:

1. ANY DEMOLITION IS TO BE PERFORMED IN STRICT CONFORMANCE WITH ALL APPLICABLE CITY, COUNTY AND STATE, AND/OR AUTHORITY HAVING JURISDICTION (AHJ) STANDARDS.
2. THE DEMOLITION PLAN SHALL BE DONE IN CONJUNCTION WITH THE GEOTECHNICAL INVESTIGATION REPORT.
3. EROSION AND SEDIMENT CONTROL MEASUREMENTS SHALL BE MAINTAINED AT ALL TIMES DURING DEMOLITION.
4. THE PURPOSE OF THIS DRAWING IS TO CONVEY THE OVERALL SCOPE OF WORK AND IT IS NOT INTENDED TO COVER ALL DETAILS OR SPECIFICATIONS REQUIRED TO COMPLY WITH GENERALLY ACCEPTED DEMOLITION PRACTICES. CONTRACTOR SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH THE SITE, SCOPE OF WORK, AND ALL EXISTING CONDITIONS AT THE JOB SITE PRIOR TO BIDDING AND COMMENCING THE WORK. THE DEMOLITION CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, OR PROCEDURES USED TO COMPLETE THE WORK IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND IS LIABLE FOR THE SAFETY OF THE PUBLIC OR CONTRACTOR'S EMPLOYEES DURING THE COURSE OF THE PROJECT.
5. THE DEMOLITION PLAN IS INTENDED TO SHOW REMOVAL OF KNOWN SITE FEATURES AND UTILITIES AS SHOWN ON THE SURVEY. THERE MAY BE OTHER SITE FEATURES, UTILITIES, STRUCTURES, AND MISCELLANEOUS ITEMS BOTH BURIED AND ABOVE GROUND THAT ARE WITHIN THE LIMITS OF WORK THAT MAY NEED TO BE REMOVED FOR THE PROPOSED PROJECT THAT ARE NOT SHOWN HEREON. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF SUCH ITEMS AT NO ADDITIONAL COST TO THE OWNER.
6. THE CONTRACTOR SHALL CONTACT RESPECTIVE UTILITY COMPANIES PRIOR TO DEMOLITION TO COORDINATE DISCONNECTION AND REMOVAL OF EXISTING UTILITIES WITHIN THE AREA OF WORK.
7. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES THAT ARE INTENDED TO CONTINUE TO PROVIDE SERVICE WHETHER THESE UTILITIES ARE SHOWN ON THE PLAN OR NOT.
8. UPON DISCOVERY OF ANY UNDERGROUND TANKS, CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE. NO REMOVAL OF TANKS SHALL OCCUR UNTIL AUTHORIZED BY OWNER.
9. BUILDING AND APPURTENANCES DESIGNATED FOR DEMOLITION SHALL NOT BE DISTURBED BY THE CONTRACTOR UNTIL HE HAS FURNISHED WITH NOTICE TO PROCEED BY THE OWNER. AS SOON AS SUCH NOTICE HAS BEEN GIVEN, THE CONTRACTOR SHALL PERFORM THE DEMOLITION, UNDER THE DIRECTION OF THE OWNER'S REPRESENTATIVE.
10. ALL EXISTING UTILITIES WITHIN THE EXISTING BUILDING ARE TO BE REMOVED, WHERE CONFLICTS OCCUR WITH GRADE, BEAMS, PILES, PROPOSED UTILITIES AND TRENCH BACKFILLED AND COMPACTED IN ACCORDANCE WITH THE SPECIFICATIONS AND GEOTECHNICAL REPORT.
11. FOUNDATIONS, FLOORS, FLOOR SLABS, AND ANY OTHER UNDERGROUND BUILDING STRUCTURES SHALL BE REMOVED IN ACCORDANCE WITH THE SPECIFICATIONS. AREAS OF STRUCTURE REMOVAL SHALL BE BACKFILLED IN ACCORDANCE WITH SPECIFICATIONS AND THE GEOTECHNICAL REPORT.
12. DEBRIS SHALL NOT BE BURIED ON THE SUBJECT SITE. ALL UNSUITABLE MATERIAL AND DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH ALL CITY, STATE, AND FEDERAL LAWS AND ORDINANCES.
13. ALL MATERIAL, EXCEPT THAT BELONGING TO A PUBLIC UTILITY COMPANY OR DENOTED FOR SALVAGE, SHALL BECOME PROPERTY OF THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY THE OWNER OF WATER, ELECTRIC, OR GAS METERS WHEN THE METERS ARE READY FOR REMOVAL, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISCONNECTING ALL UTILITIES IN COMPLIANCE WITH LOCAL REQUIREMENTS. DISCONNECT TRANSFORMERS AS REQUIRED FOR BUILDING DEMOLITION.
5. AS SOON AS DEMOLITION WORK HAS BEEN COMPLETED, THE FINAL GRADE OF BACKFILL IN DEMOLITION AREAS SHALL BE COMPACTED PER THE GEOTECHNICAL REPORT TO PRESENT A NEAT, WELL DRAINED APPEARANCE, AND TO PREVENT WATER FROM DRAINING UNNECESSARILY ONTO ADJACENT PROPERTIES. CONTRACTOR SHALL GRADE SITE TO EXISTING STORM DRAINAGE SYSTEM TO REMAIN ON SITE.
6. EXISTING TREES TO REMAIN SHOULD BE PROTECTED FROM DAMAGE DURING DEMOLITION AND CONSTRUCTION.
7. THE CONTRACTOR IS TO COORDINATE WORK IN THIS PROJECT TO ENSURE ACCESS TO ADJACENT PROPERTIES AT ALL TIMES.
8. REMOVAL OF ANY EXISTING PAVEMENT SHALL BE TO THE NEAREST PAVEMENT JOINT (THE ENTIRE CONCRETE PANEL NEEDS TO BE REMOVED AND REPLACED).

GENERAL GRADING/DRAINAGE NOTES:

1. ALL GRADING AND SITE PREPARATION SHALL CONFORM WITH SPECIFICATIONS CONTAINED IN THE GEOTECHNICAL REPORT.
2. ALL CONSTRUCTION MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE TO THE AUTHORITY HAVING JURISDICTION (AHJ) LATEST CONSTRUCTION SPECIFICATIONS AND DETAILS.
3. PRIOR TO ANY EXCAVATION OF THE PROJECT SITE, THE CONTRACTOR SHALL NOTIFY THE (AHJ) 48 HOURS PRIOR TO THE START OF CONSTRUCTION.
4. THE CONTRACTOR SHALL CAREFULLY PRESERVE BENCHMARKS, REFERENCE POINTS AND STAKES.
5. ALL INDICATED ELEVATIONS ARE FINISHED ELEVATIONS.
6. FIELD VERIFY LOCATIONS, SIZES AND IF APPLICABLE INVERTS OF EXISTING UTILITIES FOR PROPOSED CONNECTIONS PRIOR TO CONSTRUCTION.
7. LOCATE AND PROTECT ALL UTILITIES ASSOCIATED WITH THE PROJECT PRIOR TO CONSTRUCTION.
8. INSTALL SILT CONTROL MEASURES BEFORE BEGINNING SITE WORK. THESE MEASURES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.
9. MAINTAIN PROPER SITE DRAINAGE AT ALL TIMES DURING CONSTRUCTION. PREVENT STORM WATER FROM RUNNING INTO OR STANDING IN EXCAVATED AREAS.
10. INSTALL ALL APPROPRIATE TREE PROTECTION MEASURES PRIOR TO GRADING.
11. CUT AND FILL SLOPES SHALL HAVE A MAXIMUM SLOPE OF 3:1.
12. ALL EXCAVATION SHALL INCLUDE CLEARING, STRIPPING AND STOCKPILING TOPSOIL, REMOVING UNSUITABLE MATERIALS, THE CONSTRUCTION OF EMBANKMENTS, CONSTRUCTION FILLS, AND THE FINAL SHAPING AND TRIMMING TO THE THE LINES AND GRADES SHOWN ON THE PLANS.
13. ALL TREES, BRUSH, AND ORGANIC TOPSOIL AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED, UNLESS OTHERWISE SPECIFIED, AND DISPOSED OF AT AN OFF–SITE LOCATION, WITH THE EXCEPTION THAT ENOUGH TOPSOIL SHALL BE RETAINED FOR RESPREAD AND GENERAL LANDSCAPING. AREAS WHICH ARE TO BE FILLED SHALL CONFORM WITH SPECIFICATIONS CONTAINED IN GEOTECHNICAL REPORT.
14. STRIP AND STOCKPILE TOPSOIL. SPREAD FOUR (4) INCHES MINIMUM OF TOPSOIL ON LANDSCAPE AREAS AND REMOVE EXCESS TOPSOIL FROM SITE. PREPARE SUB–GRADE FOR PAVEMENT AND CURBS AND BACKFILL CURBS AFTER CURB CONSTRUCTION.
15. PROVIDE SUPPLY OF TOPSOIL FOR LANDSCAPE CONTRACTOR FOR INSTALLATION IN ALL LANDSCAPE ISLANDS.
16. PROVIDE AND INSTALL TOPSOIL IN DISTURBED AREAS TO BE GRASSED, TO INCLUDE PAVEMENT SHOULDERS AND DETENTION AREAS (IF ANY).
17. ALL EARTHWORK AND BASE COURSE FOR THE PARKING AREA CONFORM WITH SPECIFICATIONS CONTAINED IN GEOTECHNICAL REPORT.
18. THE PAVEMENT SUBGRADE AND BASE COURSE MATERIAL SHALL BE INSPECTED AND APPROVED BY THE ENGINEER OR OWNER REPRESENTATIVE PRIOR TO CONSTRUCTING THE BASE AND SURFACE COURSES THEREON.
19. CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE TO ALL INLETS AND CATCH BASINS. AREAS OF SURFACE PONDING SHALL BE CORRECTED BY CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
20. IF AREAS ARE DISTURBED BEYOND PROPOSED GRADES BY NEGLIGENCE OF THE CONTRACTOR, THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY REGRADING OR REPAIR TO MATCH ORIGINAL EXISTING CONDITIONS.
21. SHORING SHALL BE DONE AS NECESSARY FOR THE PROTECTION OF THE WORK AND FOR THE SAFETY OF PERSONNEL. SHORING SHALL BE IN ACCORDANCE WITH ALL O.S.H.A AND (AHJ) REGULATIONS.
22. STRUCTURES FOR STORM SEWERS SHALL BE IN ACCORDANCE WITH THESE IMPROVEMENT PLANS AND THE APPLICABLE STANDARD SPECIFICATIONS. WHERE GRANULAR TRENCH BACKFILL IS REQUIRED AROUND THESE STRUCTURES, THE COST SHALL BE CONSIDERED AS INCIDENTAL AND SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE STRUCTURE.
23. CONFIRM INVERTS OF ALL EXISTING STORM INLETS AND SANITARY SEWER MANHOLES BEFORE COMMENCING CONSTRUCTION.
24. ALL STORM SEWER LINES 18"–54" DIAMETER ARE TO BE REINFORCED CONCRETE PIPE ACCORDING TO ASTM C–76 TYPE III, UNLESS OTHERWISE SPECIFIED ON PLANS.
25. A GEOTEXTILE MATTING (LANDLOCK TRM 450 OR EQUIVALENT) SHALL BE USED FOR EROSION CONTROL AN ALL SLOPES GREATER THAN 3H:1V.
26. DRAINAGE STRUCTURES AND DETENTION POND SHALL BE MAINTAINED BY PROPERTY OWNERS.
16. CONTRACTOR SHALL ADHERE TO PROPOSED GRADES ALONG CREEKS, ESPECIALLY IN THE AREA OF THE PROPOSED DETENTION POND. IF AREAS ARE DISTURBED BEYOND PROPOSED GRADES BY NEGLIGENCE OF THE CONTRACTOR, THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY PENALTIES INCURRED.
17. ALL PROPOSED SPOT ELEVATIONS SHOWN INDICATE FINISHED GRADED ELEVATIONS AT EDGE OF PAVEMENT AND/OR GRADE BREAKS, UNLESS OTHERWISE NOTED.

GENERAL UTILITY NOTES:

1. CONTRACTOR IS TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION AND ENSURE NO CONFLICTS EXIST WITH PROPOSED IMPROVEMENTS. NOTIFY ENGINEER IMMEDIATELY IF UTILITIES ARE LOCATED DIFFERENTLY THAN SHOWN. THE CONTRACTOR SHALL COORDINATE WITH EACH RESPECTIVE UTILITY COMPANY IN ORDER TO RELOCATE IF NEEDED IN CONFORMANCE WITH THEIR GUIDELINES.
2. CONTRACTOR SHALL NOTIFY AND COORDINATE WITH THE APPROPRIATE UTILITY COMPANY PRIOR TO THE REMOVAL OF INDICATED UTILITIES ON SITE (SEE DEMOLITION PLAN). CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY PERMITS REQUIRED FOR DEMOLITION AND HAUL OFF FROM THE APPROPRIATE AUTHORITIES.
3. AUTHORIZATION MUST BE OBTAINED FROM THE AUTHORITY HAVING JURISDICTION (AHJ) WATER SYSTEM TO CONSTRUCT, ALTER OR MODIFY A WATER OR SEWER LINE. CONSTRUCTION OF WATER AND SEWER INFRASTRUCTURE WILL BE AUTHORIZED BY THE WATER SYSTEM UPON:
   – APPROVAL OF SUBMITTED PLANS.
   – NOTIFICATION OF THE WATER SYSTEM AT LEAST 24 HOURS PRIOR TO STARTING CONSTRUCTION.
4. AT THE COMPLETION OF THE WATER AND/OR SEWER CONSTRUCTION AND PRIOR TO RECORDING THE FINAL PLAT, THE CONTRACTOR WILL FURNISH THE WATER SYSTEM INSPECTOR RECORD DRAWINGS OF THE PROJECT.
5. BUILDING CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH THE GAS COMPANY FOR THE CONSTRUCTION OF THE GAS LINE BETWEEN METER AND MAIN.
6. BUILDING CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH THE POWER COMPANY FOR THE CONSTRUCTION OF ELECTRICAL CONDUIT TO PROVIDE SERVICE TO THE TRANSFORMER.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING, PRIOR TO CONSTRUCTION, ALL EXISTING LOCATIONS AND INVERT ELEVATIONS OF SANITARY SEWERS, STORM DRAINAGE, AND WATER MAINS. IF ANY INVERT ELEVATION VARIES MORE THAN 0.1 FT. FROM RECORD ELEVATIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY. WORK SHALL NOT PROCEED UNTIL THE CONTRACTOR IS NOTIFIED BY THE ENGINEER.
8. CONNECT TO EXISTING UTILITIES AND INSTALL UTILITIES IN COMPLIANCE WITH REQUIREMENTS OF APPROPRIATE JURISDICTIONAL AGENCIES.
9. COORDINATE WITH BUILDING PLANS TO ASSURE ACCURACY OF UTILITY CONNECTIONS AND COMPLIANCE WITH LOCAL CODES.
10. ALL SEWERS TO BE MAINTAINED THROUGHOUT CONSTRUCTION, INCLUDING CLEANING OF ANY SILT OR DEBRIS ACCUMULATED IN STRUCTURES.
11. ALL SURPLUS EXCAVATED MATERIAL FROM THE TRENCH SHALL BE DISPOSED OFF THE SITE BY CONTRACTOR.
12. COORDINATE EXACT TRENCHING, ROUTING, AND POINT OF TERMINATION WITH ALL UTILITY COMPANIES.

AS BUILT
10/29/2019

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McKinney, TX 75070
Ph. 214-491-1830
John Measels, PE
CIVIL ENGINEER
FIRM NO. 19504
FIRM NO. F–19504

STATE OF TEXAS
JOHN THOMAS MEASELS
93278
REGISTERED
PROFESSIONAL ENGINEER
10/29/2019

LOT 90, BLOCK A, VAN BUREN ESTATES
NORTHWEST CORNER OF F.M.543 (WESTON ROAD) AND C.R.170 WESTON, TX 75097

REV	DATE	DESCRIPTION	NAME
	10/29/19	AS BUILT	TWA

PROJECT NO: JM–RR18001.0
DRAWN BY: TWA
CHECKED BY: AS
ISSUE DATE: 10/29/19

GENERAL NOTES

C6.0

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CITY OF WESTON

ENGINEERING DESIGN MANUAL

APPENDIX B

GENERAL NOTES

GENERAL

1. All construction shall be in accordance with the North Central Texas Council of Governments Standard Specifications for Public Works Construction".
2. Before beginning construction, the contractor shall prepare a construction sequence schedule. The construction sequence schedule shall be such that there is the minimum interference with traffic along or adjacent to the project.
3. Construction may not begin earlier than 7:00 A.M. on weekdays nor continued after dark without permission from the City of Weston. Construction on Saturday may not begin before 8:00 A.M. and work on Sunday is prohibited without special permission.
4. The contractor is responsible for verifying the location of all underground utilities and structures and protecting them from damage during construction.
5. Work may not be backfilled or covered until it has been inspected by the City.
6. Material testing shall be performed by an independent testing laboratory and paid for by the Contractor.
7. All excavation on the project is unclassified.
8. Temporary erosion control shall be used to minimize the spread of silt and mud from the project on to existing streets, alleys, drainage ways and public and private property. Temporary erosion controls may include straw bales, berms, dikes, swales, strips of undisturbed vegetation, check dams and other methods as required by the City of Weston.
9. Finished Slopes on public rights-of-way and easements shall not be steeper than 4:1. All slopes steeper than 6:1 shall be hydro mulched and maintained by the contractor until grass covers all parts of the slope.
10. The contractor shall maintain two-way traffic at all times along the project..
11. Remove, salvage and replace all street and traffic control signs which may be damaged by the construction of the project.
12. All trenching and excavation shall be performed in accordance with OSHA standards.

PAVING

1. All embankment shall be com % Standard Proctor Density.
2. All streets and alleys shall be placed on lime stabilized subgrade with a lime content of not less than 6%.
3. The minimum 28 day compressive strength of concrete street paving shall not be less than 3600 PSI and shall be air entrained. Water may not be applied to the surface of concrete paving to improve workability.
4. All curb and gutter shall be integral with the pavement.
5. All street pavement must be cross-sloped or constructed on a parabolic crown section.
6. Streets and alleys shall be constructed with provisions for sidewalk ramps at all intersections.

DRAINAGE

1. Storm sewer pipe shall be reinforced concrete, Class III unless otherwise noted.
2. All structural concrete shall be Class "C" (3600 PSI compressive strength at 28 days), air entrained.
3. The Contractor shall install plugs in storm sewer lines or otherwise prevent mud from entering the storm sewer system during construction.

AS BUILT
10/29/2019

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AND C.R.170 WESTON, TX 75097

REV	DATE	DESCRIPTION	NAME
	10/29/19	AS BUILT	TWA

PROJECT NO: JM-RR18001.0
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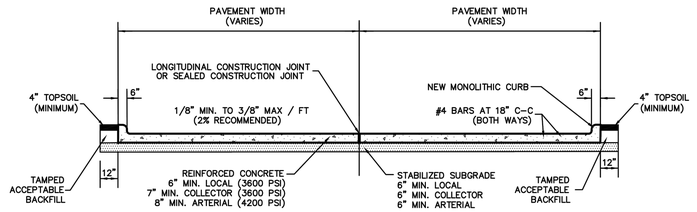
CHECKED BY: AS
ISSUE DATE: 10/29/19

CITY GENERAL NOTES

C7.0

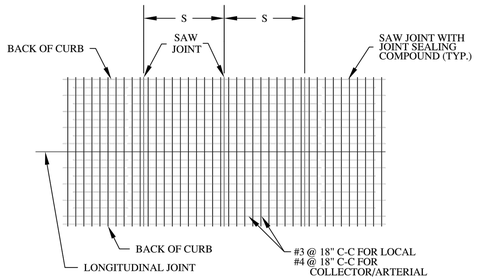


TYPICAL CONCRETE SECTION
(CURB AND GUTTER)

NOTE: LOCAL – #3 BARS ON 18" C-C
COLLECTOR/MINOR ARTERIAL – #4 BARS ON 18" C-C

JAMES ENGINEERING, LLC	CITY OF WESTON	SCALE: NTS
9901 E. VALLEY RANCH PARKWAY SUITE 2002 IRVING, TEXAS 75063 PH. 972) 830-9072 FAX: 972) 830-9073	PAVING CONSTRUCTIONS DETAILS	DATE: NOV 2005
	CONCRETE STREET SECTIONS	JOB #: W-05006
		SHEET: 1

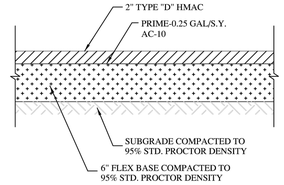
PAVEMENT THICKNESS	MAX JOINT SPACING (S)	JOINT DEPTH
6"	15'	1.5"
8"	20'	2.0"



NOTES:

1. CONSTRUCT SAW JOINTS PER TABLE
2. EXPANION JOINTS TO BE AT INTERSECTIONS, BRIDGES, AND OTHER STRUCTURES.
3. EXPANSION JOINT SPACING SHALL NOT EXCEED 240'
4. ALL JOINTS TO BE PROPERLY SEALED WITH JOINT SEALING COMPOUND CONSISTING OF HOT POURED RUBBER PER SPEC. ITEM 2.2.10, OR APPROVED EQUAL
5. MONOLITHIC CURB SHALL BE USED WITH THIS TYPE OF PAVING.
6. LONGITUDINAL SAW JOINT REQUIRED FOR EACH LANE SEPERATION.

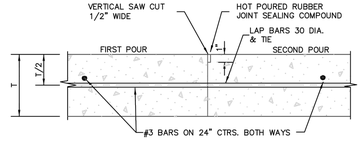
JAMES ENGINEERING, LLC	CITY OF WESTON	SCALE: 1:1
9901 E. VALLEY RANCH PARKWAY SUITE 2002 IRVING, TEXAS 75063 PH. 972) 830-9072 FAX: 972) 830-9073	PAVING CONSTRUCTION DETAILS	DATE: NOV 2005
	STEEL LAYOUT PLAN	JOB #: W-05006
		SHEET: 2



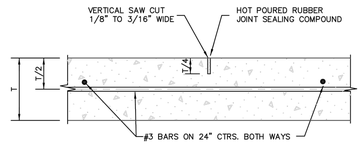
ASPHALT PAVEMENT REPLACEMENT
NO SCALE

SCALE: NTS
SHEET:

JAMES ENGINEERING, LLC	CITY OF WESTON
9901 E. VALLEY RANCH PARKWAY, SUITE 2002 IRVING, TEXAS 75063 PH. 972) 830-9072 FAX: 972) 830-9073	ENGINEERING DESIGN MANUAL
	ASPHALT PAVEMENT DETAIL



CONSTRUCTION JOINT DETAIL
NO SCALE



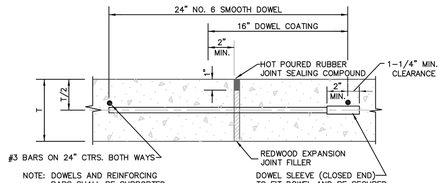
SAWED DUMMY JOINT DETAIL
NO SCALE

NOTE:

SAWED DUMMY JOINTS SHALL BE CUT AT NOT MORE THAN 20-FOOT CENTERS EACH WAY.

SCALE: NTS
SHEET: 3-B

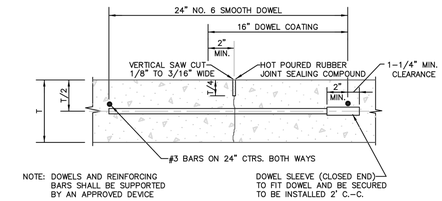
JAMES ENGINEERING, LLC	CITY OF WESTON
8120 JETSTAR DRIVE, SUITE 150 IRVING, TEXAS 75063 PH. 972) 621-6303 FAX: 972) 621-6304	PAVING CONSTRUCTION DETAILS
	CONCRETE PAVEMENT JOINTS



NOTE: DOWELS AND REINFORCING BARS SHALL BE SUPPORTED BY AN APPROVED DEVICE

TRANSVERSE EXPANSION JOINT DETAIL
NO SCALE

NOTE: SPACE 600' O.C., LOCATE AT INTERSECTIONS

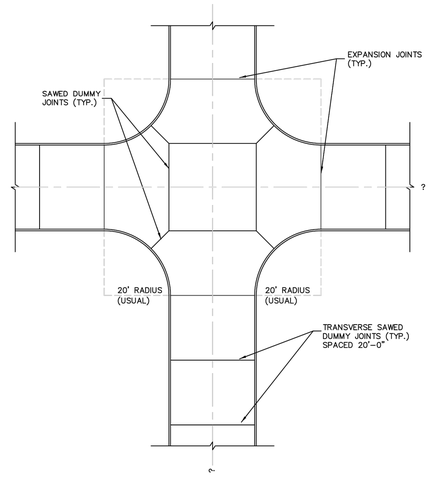


NOTE: DOWELS AND REINFORCING BARS SHALL BE SUPPORTED BY AN APPROVED DEVICE

CONTRACTION JOINT DETAIL
NO SCALE

SCALE: NTS
SHEET: 3-C

JAMES ENGINEERING, LLC	CITY OF WESTON
8120 JETSTAR DRIVE, SUITE 150 IRVING, TEXAS 75063 PH. 972) 621-6303 FAX: 972) 621-6304	PAVING CONSTRUCTION DETAILS
	CONCRETE PAVEMENT JOINTS



TYPICAL INTERSECTION JOINTING

SCALE: NTS
SHEET: 3A

JAMES ENGINEERING, LLC	CITY OF WESTON
8120 JETSTAR DRIVE, SUITE 150 IRVING, TEXAS 75063 PH. 972) 621-6303 FAX: 972) 621-6304	PAVING CONSTRUCTION DETAILS
	INTERSECTION JOINT SPACING

AS BUILT
10/29/2019

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STATE OF TEXAS
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LICENSED PROFESSIONAL ENGINEER
10/29/2019

LOT 90, BLOCK A, VAN BUREN ESTATES
NORTHWEST CORNER OF F.M.543 (WESTON ROAD) AND C.R.170 WESTON, TX 75097

REV	DATE	DESCRIPTION	NAME
	10/29/19	AS BUILT	TWA

PROJECT NO: JM-RR18001.0
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ISSUE DATE: 10/29/19

CITY DETAILS

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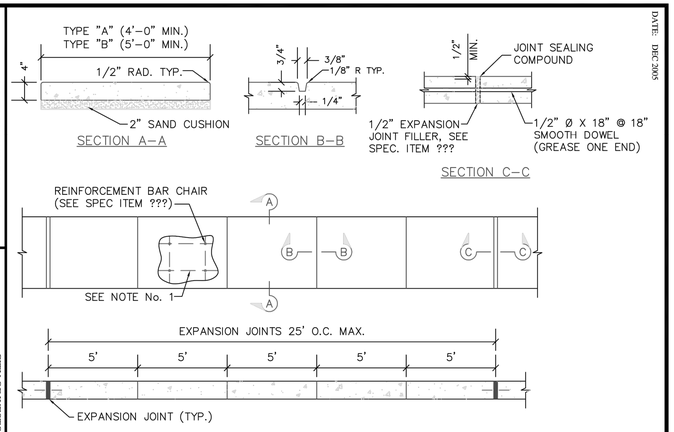
J:\PRESIDENTIAL LAND\WESTON, TX - 170 & 543_CURRENT DRAWINGS LOT 90\DETAILS LOT 90.DWG 10/29/2019 6:02 PM TIM ANDRIES

DATE: DEC 2005



NOTE:
1. REINFORCEMENT TO BE #3 BARS AT 18" C–C
2. DOWEL WITH #4 BARS AT 18" C–C WHEN CONNECTING TO EXISTING SIDEWALKS, DRIVEWAYS, CURBS AND GUTTER.
3. INSTALL 1/2" O X 18" SMOOTH DOWELS @ 18" (GREASE ONE END) THROUGH EXPANSION JOINTS.

JAMES ENGINEERING, LLC
9901 E. VALLEY RANCH PARKWAY, SUITE 2002
IRVING, TEXAS 75063
PH. 972-830-9072 FAX: 972-830-9073

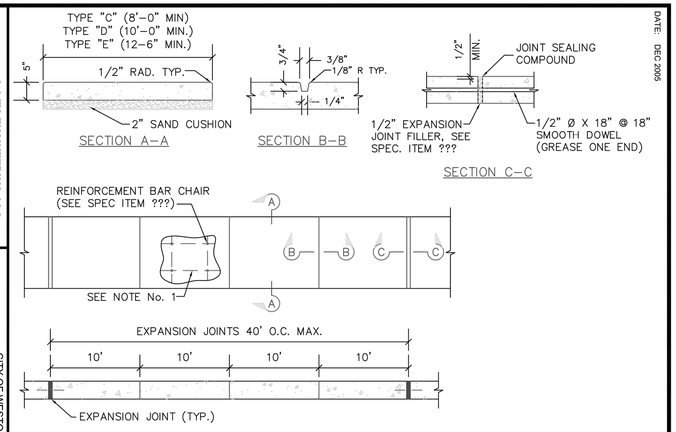
CITY OF WESTON
ENGINEERING DESIGN MANUAL

CONCRETE SIDEWALK

SCALE: NTS
SHEET:

CONCRETE SIDEWALK – AM

DATE: DEC 2005



NOTE:
1. REINFORCEMENT TO BE #3 BARS AT 18" C–C
2. DOWEL WITH #4 BARS AT 18" C–C WHEN CONNECTING TO EXISTING SIDEWALKS, DRIVEWAYS, CURBS AND GUTTER.
3. INSTALL 1/2" Ø X 18" SMOOTH DOWELS @ 18" (GREASE ONE END) THROUGH EXPANSION JOINTS.

JAMES ENGINEERING, LLC
9901 E. VALLEY RANCH PARKWAY, SUITE 2002
IRVING, TEXAS 75063
PH. 972-830-9072 FAX: 972-830-9073

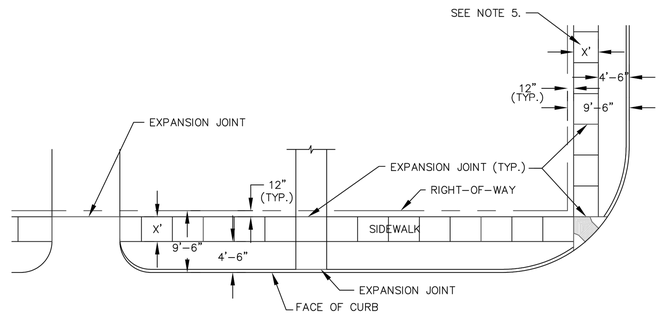
CITY OF WESTON
ENGINEERING DESIGN MANUAL

CONCRETE SIDEWALK

SCALE: NTS
SHEET:

CONCRETE SIDEWALK – DUKE

PAVING CONSTRUCTION DETAILS



NOTES:
1. REINFORCE ALL SIDEWALKS WITH #3 BARS @ 18" C–C OR WELDED WIRE FABRIC 6 X6 – W4.0 X W4.0
2. INSTALL #4 X 18" DOWELS @ 18" WHEN CONNECTING TO EXISTING CONCRETE.
3. INSTALL 1/2" ø X 18" SMOOTH DOWELS @ 18" (GREASE ONE END) THROUGH EXPANSION JOINTS.
4. CURB AND GUTTER PLACED MONOLITHICALLY WITH PAVEMENT SHALL BE REINFORCED AND JOINTED IN ACCORDANCE WITH PAVEMENT DETAILS.
5. MINIMUM SIDEWALK WIDTH FOR LOCAL STREETS IS 4'. 5' MINIMUM SIDEWALK WIDTH FOR COLLECTORS.

JAMES ENGINEERING, LLC
9901 E. VALLEY RANCH PARKWAY, SUITE 2002
IRVING, TEXAS 75063
PH. 972 830-9072 FAX: 972 830-9073

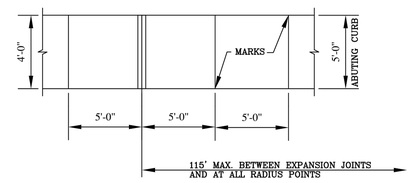
CITY OF WESTON
CURB & GUTTER,SIDEWALK & DRIVEWAY

TYPICAL JOINT LAYOUT

SCALE: 1:1
DATE: NOV 2005
JOB #: W–05006
SHEET: 10

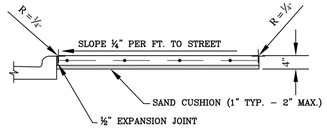
DATE: NOV 2005

PAVING CONSTRUCTION DETAILS

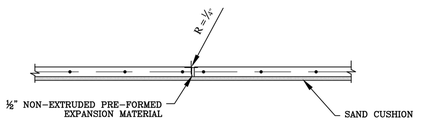


NOTES:
AT MARKINGS THE CONCRETESHALL BE CUT 1" DEEP, FOLLOWED BY GROOVING TOOOL. STRENGTH SHALL BE 2500 p.s.i. WITH #3 BARS @ 24" O.C.

PLAN



TYPICAL SECTION



EXPANSION JOINT DETAIL

SCALE: NTS
SHEET:

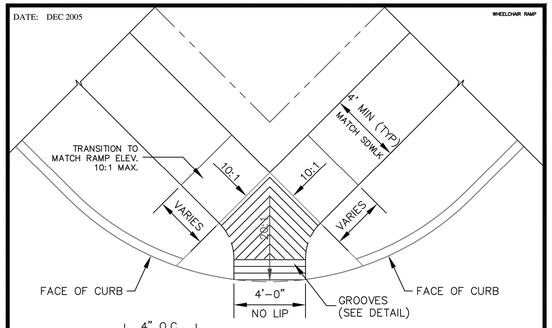
JAMES ENGINEERING, LLC
9901 E. VALLEY RANCH PARKWAY, SUITE 2002
IRVING, TEXAS 75063
PH. 972 830-9072 FAX: 972 830-9073

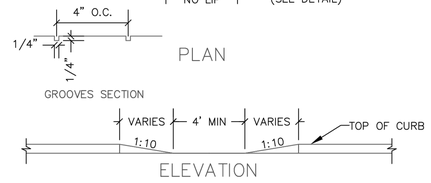
CITY OF WESTON
ENGINEERING DESIGN MANUAL

TYPICAL SIDEWALK DETAIL

DATE: DEC 2005

WHEELCHAIR RAMP





NOTES:
1. CONSTRUCT RAMP OF CLASS A CONCRETE.
2. REINFORCE WITH #3 BARS ON 18" CENTERS
3. INSTALL 1/2" Ø X 18" SMOOTH DOWELS @ 18" (GREASE ON ONE SIDE) THROUGH EXPANSION JOINTS.
4. 1:20 SLOPE ON WHEELCHAIR RAMP AND 1:10 SLOPE ON RAMP WINGS.
5. RAMPS SHALL HAVE A HEAVY BROOM FINISH WITH GROOVES ALIGNED PERPENDICULAR TO THE DIRECTION OF TRAVEL.
6. ALL RAMPS SHALL COMPLY WITH THE REQUIREMENTS OF THE ARCHITECTURAL BARRIERS ACT.

SCALE: NTS
SHEET:

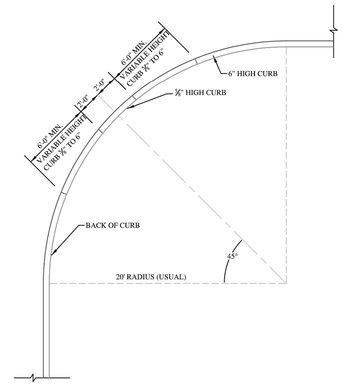
JAMES ENGINEERING, LLC
9901 E. VALLEY RANCH PARKWAY, SUITE 2002
IRVING, TEXAS 75063
PH. 972 830-9072 FAX: 972 830-9073

CITY OF WESTON
ENGINEERING DESIGN MANUAL

WHEELCHAIR RAMP

DATE: NOV 2005

PAVING CONSTRUCTION DETAILS



BARRIER FREE CURB RETURN DETAIL

SCALE: NTS
SHEET:

JAMES ENGINEERING, LLC
9901 E. VALLEY RANCH PARKWAY, SUITE 2002
IRVING, TEXAS 75063
PH. 972 830-9072 FAX: 972 830-9073

CITY OF WESTON
ENGINEERING DESIGN MANUAL

BARRIER FREE CURB RETURN

AS BUILT
10/29/2019

THIS RECORD DRAWING IS A COMPILATION OF SEALED ENGINEERING DRAWINGS FOR THIS PROJECT MODIFIED BY INFORMATION FURNISHED BY THE CONTRACTOR, BASED ON THE CONTRACTORS' INFORMATION AND GENERAL INSPECTION BY THE CITY.

JM CIVIL Engineering
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John Measels, PE
CIVIL ENGINEER
FIRM NO. 19504
FIRM NO. F–19504
STATE OF TEXAS
JOHN THOMAS MEASELS
93278
LICENSED PROFESSIONAL ENGINEER
10/29/2019

LOT 90, BLOCK A, VAN BUREN ESTATES
NORTHWEST CORNER OF F.M.543 (WESTON ROAD) AND C.R.170 WESTON, TX 75097

REV	DATE	DESCRIPTION	NAME
	10/29/19	AS BUILT	TWA

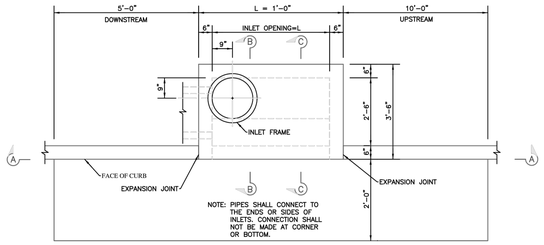
PROJECT NO: JM–RR18001.0
DRAWN BY: TWA
CHECKED BY: AS
ISSUE DATE: 10/29/19

CITY DETAILS

C8.1

J:\PRESIDENTIAL LAND\WESTON, TX – 170 & 543_CURRENT DRAWINGS LOT 90\DETAILS LOT 90.DWG 10/29/2019 6:02 PM TIM ANDRIES

FILE NAME



PLAN - STANDARD INLET

NO SCALE

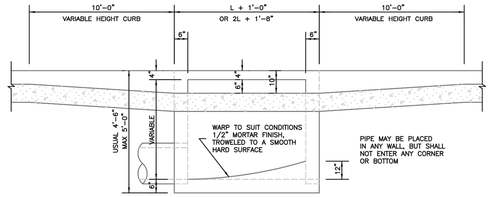
JAMES ENGINEERING, LLC
8200 JETSTAR DRIVE, SUITE 150
IRVING, TEXAS 75063
PH. 972) 621-6303 FAX: (972) 621-6304

CITY OF WESTON
ENGINEERING DESIGN MANUAL

STANDARD INLET - PLAN VIEW

SCALE: NTS
DATE: NOV 2005
JOB #:
SHEET:

DRAINAGE DETAILS



SECTION A--A

RECESSED AND STANDARD DETAILS

NO SCALE

JAMES ENGINEERING, LLC
9901 E. VALLEY RANCH PARKWAY
SUITE 2002
IRVING, TEXAS 75063
PH. 972) 830-9072 FAX: (972) 830-9073

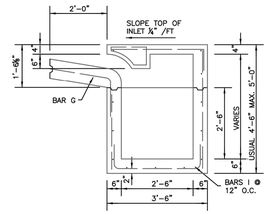
CITY OF WESTON
ENGINEERING DESIGN MANUAL

RECESSED AND STANDARD DETAILS

SCALE: NTS
DATE: NOV 2005
JOB #:
SHEET:

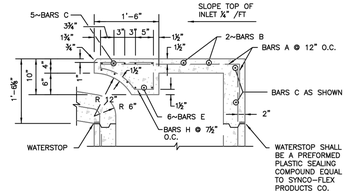
DATE: NOV 2005

DRAINAGE DETAILS



SECTION "B-B"

SCALE: ½" = 1'-0"



SECTION "C-C"

SCALE: ¾" = 1'-0"

SCALE: NTS
SHEET:

JAMES ENGINEERING, LLC
9901 E. VALLEY RANCH PARKWAY, SUITE 2002
IRVING, TEXAS 75063
PH. 972) 830-9072 FAX: (972) 830-9073

CITY OF WESTON
ENGINEERING DESIGN MANUAL

INLET SECTIONS

DATE: NOV 2005

DRAINAGE DETAILS

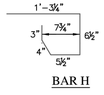
REINFORCING STEEL SCHEDULE

DIMENSIONS SHOWN ARE FOR MAX. SIZE INLETS

INLET LENGTH L	BAR TYPE	BAR DIA. (⅛")	NO. REQD.	BAR DIMENSIONS A	B	C
6 FT.	A	3	9	3'-2"	0'-3"	---
	B	3	1	4'-10"	---	---
	C	4	15	6'-8"	0'-6"	---
	D	4	5	4'-8"	---	---
	F	4	1	3'-2"	---	---
	G	3	5	2'-0"	1'-3"	---
	H	3	3	*	*	*
	N	3	3	3'-2"	3'-2"	3'-2"
8 FT.	A	3	12	3'-2"	0'-3"	---
	B	3	1	6'-10"	---	---
	C	4	15	8'-8"	0'-6"	---
	D	4	5	4'-8"	---	---
	F	4	1	3'-2"	---	---
	G	3	5	2'-0"	1'-3"	---
	H	3	4	*	*	*
	N	3	3	3'-2"	3'-2"	3'-2"
10 FT.	A	3	10	3'-2"	0'-3"	---
	B	3	2	8'-10"	---	---
	C	4	16	10'-8"	0'-6"	---
	D	4	4	4'-8"	---	---
	E	5	6	10'-8"	---	---
	G	3	5	2'-0"	1'-3"	---
	H	3	15	*	*	*
	I	4	8	4'-8"	3'-2"	3'-2"
	L	4	5	4'-3"	---	---

* SEE DIAGRAM FOR DIMENSIONS

TYPICAL BAR BENDING



BAR H

REINFORCING DETAILS

SCALE: NTS
SHEET:

JAMES ENGINEERING, LLC
9901 E. VALLEY RANCH PARKWAY, SUITE 2002
IRVING, TEXAS 75063
PH. 972) 830-9072 FAX: (972) 830-9073

CITY OF WESTON
ENGINEERING DESIGN MANUAL

REINFORCING STEEL SCHEDULE

DATE: NOV 2005

DRAINAGE DETAILS

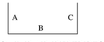
REINFORCING STEEL SCHEDULE

DOUBLE INLETS

DIMENSIONS SHOWN ARE FOR MAX. SIZE INLETS

INLET LENGTH L	BAR TYPE	BAR DIA. (⅛")	NO. REQD.	BAR DIMENSIONS A	B	C
8 FT.	A	3	19	3'-2"	0'-6"	---
	B	3	2	15'-6"	---	---
	C	4	16	17'-4"	0'-6"	---
	D	4	9	4'-8"	---	---
	E	5	6	17'-4"	---	---
	F	4	5	1'-2"	---	---
	G	3	12	2'-0"	1'-3"	---
	H	3	26	*	*	*
	I	4	16	4'-8"	3'-2"	3'-2"
	J	5	1	*	*	*
	K	5	6	3'-2"	0'-6"	---
	L	4	11	3'-2"	0'-6"	---
	M	4	2	3'-0"	---	---
	N	4	2	4'-8"	3'-2"	4'-8"
10 FT.	A	3	23	3'-2"	0'-6"	---
	B	3	2	19'-6"	---	---
	C	4	16	21'-4"	0'-6"	---
	D	4	9	4'-8"	---	---
	E	5	6	21'-4"	---	---
	F	4	5	1'-2"	---	---
	G	3	15	2'-0"	1'-3"	---
	H	3	32	*	*	*
	I	4	20	4'-8"	3'-2"	3'-2"
	J	5	1	*	*	*
	K	5	6	3'-2"	0'-6"	---
	L	4	11	3'-2"	0'-6"	---
	M	4	2	3'-0"	---	---
	N	4	2	4'-8"	3'-2"	4'-8"

* SEE DIAGRAM FOR DIMENSIONS



TYPICAL BAR BENDING

BAR J

BAR H

REINFORCING DETAILS

SCALE: NTS
SHEET:

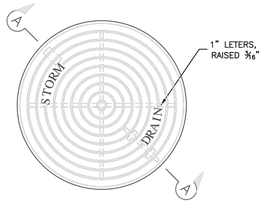
JAMES ENGINEERING, LLC
9901 E. VALLEY RANCH PARKWAY, SUITE 2002
IRVING, TEXAS 75063
PH. 972) 830-9072 FAX: (972) 830-9073

CITY OF WESTON
ENGINEERING DESIGN MANUAL

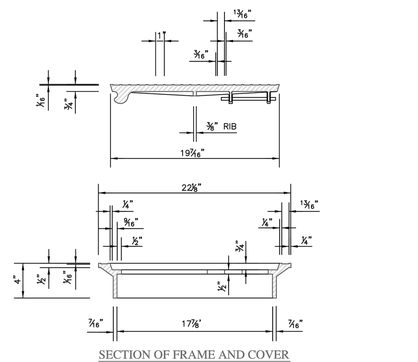
INLET REINFORCING SCHEDULE

DATE: NOV 2005

DRAINAGE DETAILS



PLAN OF COVER



SECTION OF FRAME AND COVER

INLET FRAME AND COVER

SCALE: 1½" = 1'-0"

SCALE: NTS
SHEET:

JAMES ENGINEERING, LLC
9901 E. VALLEY RANCH PARKWAY, SUITE 2002
IRVING, TEXAS 75063
PH. 972) 830-9072 FAX: (972) 830-9073

CITY OF WESTON
ENGINEERING DESIGN MANUAL

INLET FRAME AND COVER

AS BUILT
10/29/2019

THIS RECORD DRAWING IS A COMPILATION OF SEALED ENGINEERING DRAWINGS FOR THIS PROJECT MODIFIED BY INFORMATION FURNISHED BY THE CONTRACTOR, BASED ON THE CONTRACTORS' INFORMATION AND GENERAL INSPECTION BY THE CITY.

JM CIVIL Engineering
5900 S. Lake Forest Dr., Suite 380
McKinney, TX 75070
Ph. 214-491-1830
John Measels, PE
CIVIL ENGINEER
FIRM NO. 19504
FIRM NO. F-19504

STATE OF TEXAS
JOHN THOMAS MEASELS
93278
LICENSED PROFESSIONAL ENGINEER
10/29/2019

LOT 90, BLOCK A, VAN BUREN ESTATES
NORTHWEST CORNER OF F.M.543 (WESTON ROAD) AND C.R.170 WESTON, TX 75097

REV	DATE	DESCRIPTION	NAME
	10/29/19	AS BUILT	TWA

PROJECT NO: JM-RR18001.0
DRAWN BY: TWA
CHECKED BY: AS
ISSUE DATE: 10/29/19

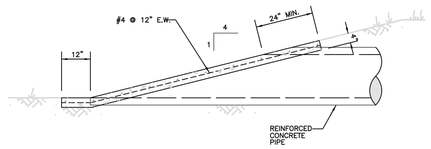
CITY DETAILS

C8.2

J:\PRESIDENTIAL LAND\WESTON, TX - 170 & 543_CURRENT DRAWINGS LOT 90\DETAILS LOT 90.DWG 10/29/2019 6:02 PM TIM ANDRIES

DATE: NOV 2005

DRAINAGE DETAILS



HEADWALL DETAIL

SCALE: N.T.S.

NOTES:

1. WIDTH OF HEADWALL IS EQUAL TO PIPE O.D. + 24".
2. SAWCUT 4:1 BEVEL ON PIPE.

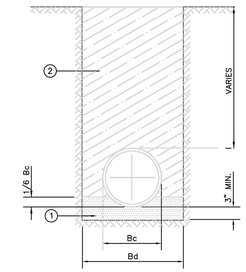
SCALE: NTS

SHEET:

JAMES ENGINEERING, LLC	CITY OF WESTON ENGINEERING DESIGN MANUAL
9901 E. VALLEY RANCH PARKWAY, SUITE 2002 IRVING, TEXAS 75063 PH. 972) 830-9072 FAX: 972) 830-9073	HEADWALL DETAIL

DATE: NOV 2005

DRAINAGE DETAILS



1. STANDARD GRADATION CRUSHED STONE – TOP LAYER IS TO BE PLACED TO GRADE TO PROVIDE UNIFORM SUPPORT OF PIPE BARREL. EXCAVATE BELL HOLES.
2. SELECT MATERIAL FREE OF ROCKS, CLUMPS OR DEBRIS LARGER THAN 6" IN GREATEST DIMENSION. COMPACT TO 90% STANDARD PROCTOR DENSITY. UNDER STRUCTURES, ROADWAYS AND PAVEMENT, COMPACT TO 95% STANDARD PROCTOR DENSITY.

CLASS "C" EMBEDMENT

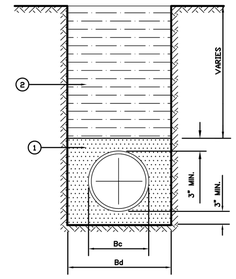
NO SCALE

SCALE: NTS

SHEET:

JAMES ENGINEERING, LLC	CITY OF WESTON ENGINEERING DESIGN MANUAL
9901 E. VALLEY RANCH PARKWAY, SUITE 2002 IRVING, TEXAS 75063 PH. 972) 830-9072 FAX: 972) 830-9073	CLASS "C" EMBEDMENT (STM)

HDPE EMBEDMENT



1. STANDARD GRADATION CRUSHED STONE – TOP LAYER IS TO BE PLACED TO GRADE TO PROVIDE UNIFORM SUPPORT OF PIPE BARREL. EXCAVATE BELL HOLES.
2. SELECT MATERIAL FREE OF ROCKS, CLUMPS OR DEBRIS LARGER THAN 6" IN GREATEST DIMENSION. COMPACT TO 90% STANDARD PROCTOR DENSITY. UNDER STRUCTURES, ROADWAYS AND PAVEMENT, COMPACT TO 95% STANDARD PROCTOR DENSITY.

STORM SEWER EMBEDMENT

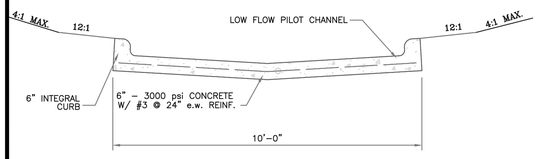
USE FOR ALL HDPE CONSTRUCTIONS

SCALE: N.T.S.

JAMES ENGINEERING, LLC	CITY OF WESTON ENGINEERING DESIGN MANUAL	SCALE: NTS DATE: 6/23/06
9901 E. VALLEY RANCH PARKWAY SUITE 2002 IRVING, TEXAS 75063 PH. 972) 830-9072 FAX: 972) 830-9073	HDPE EMBEDMENT	JOB #: SHEET:

DATE: NOV 2005

DRAINAGE DETAILS



SECTION

SCALE: NTS

SHEET: FIG 3-2

JAMES ENGINEERING, LLC	CITY OF WESTON ENGINEERING DESIGN MANUAL
9901 E. VALLEY RANCH PARKWAY, SUITE 2002 IRVING, TEXAS 75063 PH. 972) 830-9072 FAX: 972) 830-9073	EARTHEN CHANNEL SECTION

AS BUILT
10/29/2019

THIS RECORD DRAWING IS A COMPILATION OF SEALED ENGINEERING DRAWINGS FOR THIS PROJECT MODIFIED BY INFORMATION FURNISHED BY THE CONTRACTOR, BASED ON THE CONTRACTORS' INFORMATION AND GENERAL INSPECTION BY THE CITY.

JM CIVIL Engineering

5900 S. Lake Forest Dr., Suite 380
McKinney, TX 75070

Ph. 214-491-1830

John Measels, PE
CIVIL ENGINEER

FIRM NO. 19504

FIRM NO. F-19504

10/29/2019

LOT 90, BLOCK A, VAN BUREN ESTATES

NORTHWEST CORNER OF F.M.543 (WESTON ROAD)
AND C.R.170 WESTON, TX 75097

REV	DATE	DESCRIPTION	NAME
	10/29/19	AS BUILT	TWA

PROJECT NO: JM-RR18001.0
DRAWN BY: TWA
CHECKED BY: AS
ISSUE DATE: 10/29/19

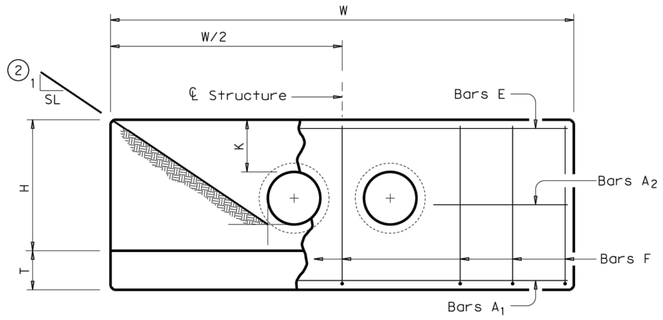
CITY DETAILS

C8.3

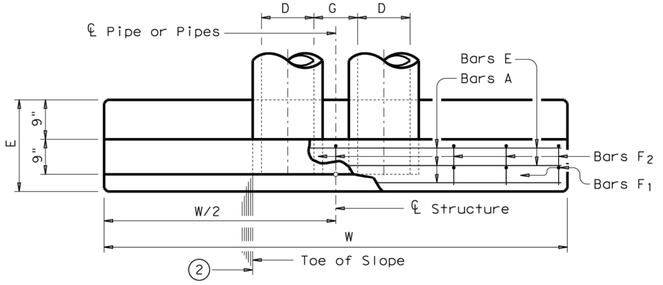
J:\PRESIDENTIAL LAND\WESTON, TX - 170 & 543_CURRENT DRAWINGS LOT 90\DETAILS LOT 90.DWG 10/29/2019 6:03 PM TIM ANDRIES

TABLE OF VARIABLE DIMENSIONS AND QUANTITIES FOR ONE HEADWALL (4)

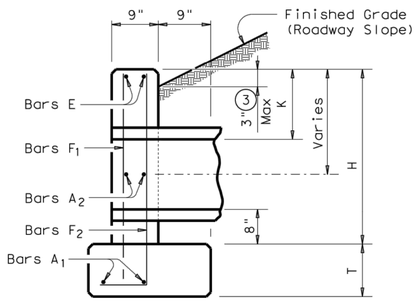
SLOPE	DIA OF PIPE, D	Values for one Pipe			Values to be added for each addt'l Pipe		
		W	Reinf (Lbs)	Conc (CY) (1)	W	Reinf (Lbs)	Conc (CY) (1)
2:1	12"	9'- 0"	122	1.1	1'- 9"	15	0.2
	15"	10'- 3"	136	1.3	2'- 2"	16	0.2
	18"	11'- 6"	163	1.5	2'- 8"	19	0.3
	21"	12'- 9"	200	1.8	3'- 1"	31	0.4
	24"	14'- 0"	217	2.1	3'- 7"	34	0.4
	27"	15'- 3"	254	2.4	3'-11"	37	0.5
	30"	16'- 6"	272	2.7	4'- 4"	40	0.6
	33"	17'- 9"	314	3.1	4'- 8"	43	0.6
	36"	19'- 0"	371	3.9	5'- 1"	46	0.8
	42"	21'- 6"	442	4.9	5'-10"	52	1.0
	48"	25'- 0"	569	6.4	6'- 7"	59	1.3
	54"	27'- 6"	701	7.5	7'- 6"	82	1.6
	60"	30'- 0"	794	8.8	8'- 3"	90	1.8
	66"	32'- 6"	894	10.2	8'- 9"	96	2.0
	72"	35'- 0"	1055	11.7	9'- 4"	103	2.3
3:1	12"	13'- 0"	175	1.6	1'- 9"	14	0.2
	15"	14'- 9"	193	1.9	2'- 2"	17	0.2
	18"	16'- 6"	228	2.2	2'- 8"	19	0.3
	21"	18'- 3"	299	2.6	3'- 1"	31	0.4
	24"	20'- 0"	323	3.0	3'- 7"	33	0.4
	27"	21'- 9"	371	3.5	3'-11"	37	0.5
	30"	23'- 6"	415	4.0	4'- 4"	40	0.5
	33"	25'- 3"	469	4.6	4'- 8"	43	0.6
	36"	27'- 0"	556	5.7	5'- 1"	46	0.8
	42"	30'- 6"	675	7.1	5'-10"	52	1.0
	48"	35'- 6"	837	9.2	6'- 7"	59	1.3
	54"	39'- 0"	1015	11.0	7'- 6"	84	1.6
	60"	42'- 6"	1171	12.9	8'- 3"	91	1.8
	66"	46'- 0"	1298	14.9	8'- 9"	98	2.0
	72"	49'- 6"	1561	17.1	9'- 4"	103	2.3
4:1	12"	17'- 0"	229	2.0	1'- 9"	15	0.2
	15"	19'- 3"	266	2.4	2'- 2"	17	0.2
	18"	21'- 6"	308	2.9	2'- 8"	19	0.3
	21"	23'- 9"	382	3.5	3'- 1"	31	0.3
	24"	26'- 0"	430	3.9	3'- 7"	34	0.4
	27"	28'- 3"	486	4.7	3'-11"	37	0.5
	30"	30'- 6"	539	5.2	4'- 4"	40	0.6
	33"	32'- 9"	603	6.0	4'- 8"	42	0.6
	36"	35'- 0"	738	7.5	5'- 1"	47	0.8
	42"	39'- 6"	881	9.3	5'-10"	52	1.0
	48"	46'- 0"	1102	12.1	6'- 7"	61	1.3
	54"	50'- 6"	1364	14.4	7'- 6"	84	1.6
	60"	55'- 0"	1547	16.9	8'- 3"	91	1.8
	66"	59'- 6"	1741	19.5	8'- 9"	98	2.0
	72"	64'- 0"	2069	22.4	9'- 4"	102	2.3
6:1	12"	25'- 0"	336	3.0	1'- 9"	14	0.2
	15"	28'- 3"	384	3.6	2'- 2"	17	0.2
	18"	31'- 6"	452	4.2	2'- 8"	19	0.3
	21"	34'- 9"	581	5.1	3'- 1"	31	0.4
	24"	38'- 0"	644	5.8	3'- 7"	34	0.4
	27"	41'- 3"	737	6.9	3'-11"	37	0.5
	30"	44'- 6"	807	7.7	4'- 4"	39	0.6
	33"	47'- 9"	912	8.9	4'- 8"	44	0.6
	36"	51'- 0"	1108	11.0	5'- 1"	48	0.8
	42"	57'- 6"	1318	13.7	5'-10"	54	1.0
	48"	67'- 0"	1674	17.9	6'- 7"	59	1.3
	54"	73'- 6"	2064	21.3	7'- 6"	83	1.6
	60"	80'- 0"	2343	24.9	8'- 3"	89	1.8
	66"	86'- 6"	2635	28.9	8'- 9"	96	2.0
	72"	93'- 0"	3123	33.1	9'- 4"	101	2.3



ELEVATION



PLAN OF NON-SKEWED PIPES



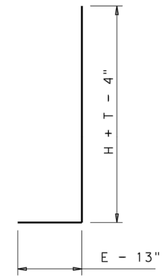
℄ SECTION

TABLE OF CONSTANT DIMENSIONS

DIA OF PIPE, D	G	K	H	T	E
12"	9"	1'- 0"	2'- 8"	9"	1'- 9"
15"	11"	1'- 0"	2'-11"	9"	1'- 9"
18"	1'- 2"	1'- 0"	3'- 2"	9"	1'- 9"
21"	1'- 4"	1'- 0"	3'- 5"	9"	2'- 0"
24"	1'- 7"	1'- 0"	3'- 8"	9"	2'- 0"
27"	1'- 8"	1'- 0"	3'-11"	9"	2'- 3"
30"	1'-10"	1'- 0"	4'- 2"	9"	2'- 3"
33"	1'-11"	1'- 0"	4'- 5"	9"	2'- 6"
36"	2'- 1"	1'- 0"	4'- 8"	1'- 0"	2'- 6"
42"	2'- 4"	1'- 0"	5'- 2"	1'- 0"	2'- 9"
48"	2'- 7"	1'- 3"	5'-11"	1'- 0"	3'- 0"
54"	3'- 0"	1'- 3"	6'- 5"	1'- 0"	3'- 3"
60"	3'- 3"	1'- 3"	6'-11"	1'- 0"	3'- 6"
66"	3'- 3"	1'- 3"	7'- 5"	1'- 0"	3'- 9"
72"	3'- 4"	1'- 3"	7'-11"	1'- 0"	4'- 0"

TABLE OF REINFORCING STEEL (4)

Bar	Size	Spa	No.
A1	# 5	~	2
A2	# 5	1'-6"	~
E	# 5	~	2
F	# 5	1'-0"	~



BARS F_2

GENERAL NOTES:

Designed according to AASHTO LRFD Specifications.

Reinforcing steel shall be placed with the center of the outside layer of bars 2" from the surface of the concrete.

All reinforcing steel shall be Grade 60.

All concrete shall be Class "C" and shall have a minimum compressive strength of 3600 psi.

No bridge rails of any type may be mounted directly to these culvert headwalls.

(1) Quantities shown are for concrete pipe and will increase slightly for metal pipe installations.

(2) Indicated slope is perpendicular to centerline Pipe or Pipes.

(3) For vehicle safety, curbs shall project no more than 3" above finished grade. Curb heights shall be reduced, if necessary, to meet these requirements. No changes will be made in quantities and no additional compensation will be allowed for this work.

(4) Quantities shown are for one structure end only (one headwall).

Texas Department of Transportation — Bridge Division Standard

CONCRETE HEADWALLS WITH PARALLEL WINGS FOR NON-SKEWED PIPE CULVERTS

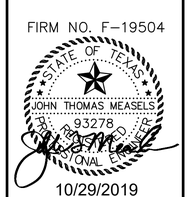
CH-PW-0

FILE: chpw0ste.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: GAF
©TxDOT February 2010	CONT	SECT	JOB	HIGHWAY
REVISIONS				
	DIST	COUNTY		SHEET NO.

AS BUILT
10/29/2019

THIS RECORD DRAWING IS A COMPILATION OF SEALED ENGINEERING DRAWINGS FOR THIS PROJECT MODIFIED BY INFORMATION FURNISHED BY THE CONTRACTOR, BASED ON THE CONTRACTORS' INFORMATION AND GENERAL INSPECTION BY THE CITY.

JM CIVIL Engineering
5900 S. Lake Forest Dr., Suite 380
McKinney, TX 75070
Ph. 214-491-1830
John Measels, PE
CIVIL ENGINEER
FIRM NO. 19504
FIRM NO. F-19504



10/29/2019

LOT 90, BLOCK A, VAN BUREN ESTATES
NORTHWEST CORNER OF F.M.543 (WESTON ROAD) AND C.R.170 WESTON, TX 75097

NAME	DESCRIPTION	DATE	REV
TWA	AS BUILT	10/29/19	

PROJECT NO: JM-RR18001.0
DRAWN BY: TWA
CHECKED BY: AS
ISSUE DATE: 10/29/19

TXDOT DETAILS

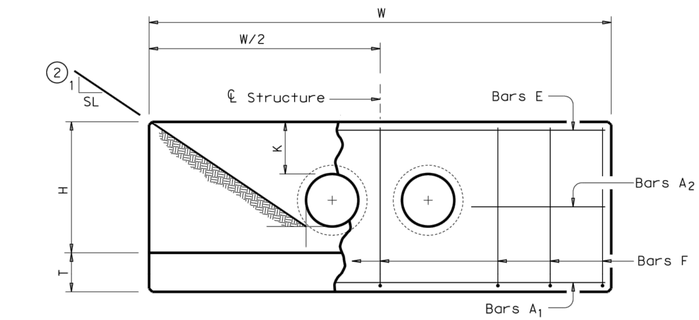
C9.0

DATE:
FILE:

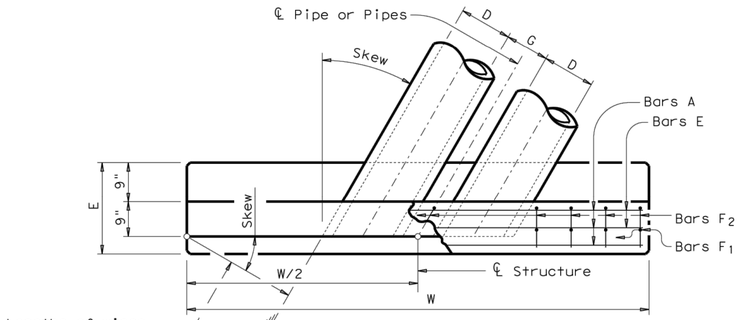
J:\PRESIDENTIAL LAND\WESTON, TX - 170 & 543_CURRENT DRAWINGS LOT 90\DETAILS LOT 90.DWG 10/29/2019 6:03 PM TIM ANDRIES

TABLE OF VARIABLE DIMENSIONS AND QUANTITIES FOR ONE HEADWALL (4)

SLOPE	DIA OF PIPE, D	15 Degrees						30 Degrees						45 Degrees					
		Values for one Pipe			Values to be added for each addt'l Pipe			Values for one Pipe			Values to be added for each addt'l Pipe			Values for one Pipe			Values to be added for each addt'l Pipe		
		W	Reinf (Lbs)	Conc (CY) (1)	W	Reinf (Lbs)	Conc (CY) (1)	W	Reinf (Lbs)	Conc (CY) (1)	W	Reinf (Lbs)	Conc (CY) (1)	W	Reinf (Lbs)	Conc (CY) (1)	W	Reinf (Lbs)	Conc (CY) (1)
2:1	12"	9'- 4"	124	1.1	1'- 9 3/4"	15	0.2	10'- 5"	130	1.2	2'- 0"	16	0.2	12'- 9"	159	1.5	2'- 5 3/4"	17	0.3
	15"	10'- 7"	136	1.3	2'- 3"	17	0.2	11'-10"	159	1.5	2'- 6"	18	0.2	14'- 6"	191	1.8	3'- 0 3/4"	20	0.3
	18"	11'-11"	165	1.5	2'- 9"	19	0.3	13'- 3"	174	1.7	3'- 1"	29	0.3	16'- 3"	207	2.1	3'- 9 1/4"	33	0.4
	21"	13'- 2"	203	1.9	3'- 2 1/4"	31	0.4	14'- 9"	233	2.1	3'- 6 3/4"	33	0.4	18'- 0"	276	2.6	4'- 4 1/4"	36	0.5
	24"	14'- 6"	240	2.1	3'- 8 1/4"	34	0.4	16'- 2"	251	2.4	4'- 1 3/4"	36	0.5	19'-10"	318	2.9	5'- 0 3/4"	39	0.6
	27"	15'- 9"	258	2.5	4'- 0 3/4"	38	0.5	17'- 7"	292	2.8	4'- 6 1/4"	39	0.6	21'- 7"	342	3.4	5'- 6 1/4"	44	0.7
	30"	17'- 1"	297	2.8	4'- 5 3/4"	40	0.6	19'- 1"	311	3.1	5'- 0"	42	0.6	23'- 4"	388	3.8	6'- 1 3/4"	47	0.8
	33"	18'- 5"	320	3.3	4'- 9 3/4"	43	0.6	20'- 6"	358	3.6	5'- 4 3/4"	46	0.7	25'- 1"	439	4.4	6'- 7 1/4"	51	0.9
	36"	19'- 8"	401	4.0	5'- 3"	47	0.9	21'-11"	422	4.5	5'-10 3/4"	50	0.9	26'-10"	517	5.5	7'- 2 1/4"	55	1.2
	42"	22'- 3"	476	5.0	6'- 0 3/4"	53	1.1	24'-10"	528	5.6	6'- 8 3/4"	56	1.2	30'- 5"	634	6.9	8'- 3"	76	1.4
	48"	25'-11"	577	6.6	6'- 9 3/4"	60	1.3	28'-10"	637	7.3	7'- 7 1/4"	79	1.5	35'- 4"	791	9.0	9'- 3 3/4"	88	1.8
	54"	28'- 6"	711	7.8	7'- 9"	83	1.6	31'- 9"	781	8.7	8'- 8"	87	1.8	38'-11"	958	10.7	10'- 7 1/4"	97	2.2
	60"	31'- 1"	805	9.2	8'- 6 1/4"	91	1.9	34'- 8"	881	10.2	9'- 6 1/4"	97	2.1	42'- 5"	1113	12.5	11'- 8"	124	2.6
	66"	33'- 8"	907	10.6	9'- 0 3/4"	98	2.1	37'- 6"	1028	11.8	10'- 1 1/4"	102	2.4	46'- 0"	1235	14.5	12'- 4 1/4"	132	2.9
	72"	36'- 3"	1071	12.1	9'- 8"	105	2.4	40'- 5"	1207	13.5	10'- 9 1/4"	110	2.6	49'- 6"	1446	16.6	13'- 2 1/4"	141	3.2
3:1	12"	13'- 6"	178	1.6	1'- 9 3/4"	15	0.2	15'- 0"	189	1.8	2'- 0"	15	0.2	18'- 5"	237	2.2	2'- 5 3/4"	17	0.2
	15"	15'- 3"	212	1.9	2'- 3"	17	0.2	17'- 0"	223	2.1	2'- 6"	17	0.3	20'-10"	276	2.6	3'- 0 3/4"	20	0.3
	18"	17'- 1"	231	2.3	2'- 9"	19	0.3	19'- 1"	259	2.5	3'- 1"	29	0.3	23'- 4"	318	3.1	3'- 9 1/4"	32	0.4
	21"	18'-11"	306	2.7	3'- 2 1/4"	31	0.4	21'- 1"	339	3.0	3'- 6 3/4"	33	0.4	25'-10"	413	3.7	4'- 4 1/4"	36	0.5
	24"	20'- 8"	345	3.1	3'- 8 3/4"	35	0.4	23'- 1"	384	3.5	4'- 1 3/4"	36	0.5	28'- 3"	462	4.2	5'- 0 3/4"	40	0.6
	27"	22'- 6"	376	3.7	4'- 0 3/4"	38	0.5	25'- 1"	438	4.1	4'- 6 1/4"	39	0.6	30'- 9"	522	5.0	5'- 6 1/4"	44	0.7
	30"	24'- 4"	422	4.1	4'- 5 3/4"	40	0.6	27'- 2"	466	4.6	5'- 0"	42	0.6	33'- 3"	578	5.6	6'- 1 3/4"	47	0.8
	33"	26'- 2"	476	4.8	4'-10"	43	0.6	29'- 2"	522	5.3	5'- 4 3/4"	46	0.7	35'- 9"	644	6.5	6'- 7 1/4"	51	0.9
	36"	27'-11"	590	5.9	5'- 3 1/4"	47	0.8	31'- 2"	645	6.6	5'-10 3/4"	50	0.9	38'- 2"	787	8.0	7'- 2 1/4"	56	1.2
	42"	31'- 7"	684	7.3	6'- 0 1/4"	53	1.1	35'- 3"	776	8.2	6'- 8 3/4"	56	1.2	43'- 2"	933	10.0	8'- 3"	79	1.4
	48"	36'- 9"	880	9.6	6'- 9 3/4"	61	1.3	41'- 0"	953	10.7	7'- 7 1/4"	81	1.5	50'- 2"	1166	13.1	9'- 3 3/4"	88	1.8
	54"	40'- 5"	1065	11.4	7'- 9"	85	1.6	45'- 0"	1185	12.7	8'- 8"	89	1.8	55'- 2"	1435	15.5	10'- 7 1/4"	97	2.2
	60"	44'- 0"	1224	13.3	8'- 6 1/4"	93	1.9	49'- 1"	1356	14.8	9'- 6 1/4"	96	2.1	60'- 1"	1627	18.2	11'- 8"	124	2.6
	66"	47'- 7"	1357	15.4	9'- 1"	98	2.1	53'- 1"	1497	17.2	10'- 1 1/4"	103	2.3	65'- 1"	1834	21.1	12'- 4 1/4"	130	2.9
	72"	51'- 3"	1624	17.7	9'- 8"	105	2.3	57'- 2"	1787	19.7	10'- 9 1/4"	109	2.6	70'- 0"	2210	24.1	13'- 2 1/4"	139	3.2
4:1	12"	17'- 7"	232	2.1	1'- 9 3/4"	15	0.2	19'- 8"	259	2.4	2'- 0"	16	0.2	24'- 0"	314	2.9	2'- 5 3/4"	18	0.2
	15"	19'-11"	272	2.5	2'- 3"	17	0.2	22'- 3"	301	2.8	2'- 6"	18	0.3	27'- 3"	361	3.5	3'- 0 3/4"	21	0.3
	18"	22'- 3"	313	3.0	2'- 9"	19	0.3	24'-10"	344	3.3	3'- 1"	29	0.3	30'- 5"	427	4.0	3'- 9 1/4"	32	0.4
	21"	24'- 7"	407	3.6	3'- 2 1/4"	31	0.4	27'- 5"	446	4.0	3'- 6 3/4"	33	0.4	33'- 7"	549	4.9	4'- 4 1/4"	36	0.5
	24"	26'-11"	455	4.1	3'- 8 3/4"	35	0.4	30'- 0"	499	4.5	4'- 1 3/4"	36	0.5	36'- 9"	609	5.6	5'- 0 3/4"	40	0.6
	27"	29'- 3"	514	4.8	4'- 0 3/4"	38	0.5	32'- 7"	562	5.4	4'- 6 1/4"	40	0.6	39'-11"	703	6.6	5'- 6 1/4"	43	0.7
	30"	31'- 7"	568	5.4	4'- 5 3/4"	40	0.6	35'- 3"	620	6.0	5'- 0"	42	0.6	43'- 2"	768	7.4	6'- 1 3/4"	49	0.8
	33"	33'-11"	634	6.2	4'-10"	43	0.7	37'-10"	710	7.0	5'- 4 3/4"	46	0.7	46'- 4"	848	8.5	6'- 7 1/4"	52	0.9
	36"	36'- 3"	776	7.7	5'- 3"	48	0.9	40'- 5"	868	8.6	5'-10 3/4"	49	0.9	49'- 6"	1058	10.6	7'- 2 1/4"	56	1.1
	42"	40'-11"	921	9.6	6'- 0 1/4"	53	1.0	45'- 7"	1022	10.7	6'- 8 3/4"	57	1.2	55'-10"	1262	13.1	8'- 3"	78	1.4
	48"	47'- 7"	1152	12.6	6'-10"	61	1.3	53'- 1"	1268	14.0	7'- 7 1/4"	80	1.5	65'- 1"	1579	17.2	9'- 3 3/4"	86	1.8
	54"	52'- 3"	1416	14.9	7'- 9 1/4"	86	1.6	58'- 4"	1589	16.6	8'- 8"	89	1.8	71'- 5"	1916	20.4	10'- 7 1/4"	95	2.2
	60"	56'-11"	1606	17.5	8'- 6 3/4"	92	1.9	63'- 6"	1798	19.5	9'- 6 1/4"	95	2.1	77'- 9"	2184	23.9	11'- 8"	122	2.6
	66"	61'- 7"	1811	20.2	9'- 0 3/4"	97	2.1	68'- 8"	2011	22.5	10'- 1 1/4"	101	2.4	84'- 2"	2464	27.6	12'- 4 1/4"	131	2.9
	72"	66'- 3"	2142	23.2	9'- 8"	104	2.4	73'-11"	2371	25.9	10'- 9 1/4"	108	2.6	90'- 6"	2929	31.7	13'- 2 1/4"	138	3.2
6:1	12"	25'-11"	342	3.1	1'- 9 3/4"	15	0.2	28'-10"	374	3.5	2'- 0"	16	0.2	35'- 4"	456	4.3	2'- 5 3/4"	17	0.2
	15"	29'- 3"	390	3.7	2'- 3"	17	0.2	32'- 7"	442	4.2	2'- 6"	18	0.2	39'-11"	549	5.1	3'- 0 3/4"	20	0.3
	18"	32'- 7"	459	4.4	2'- 9"	20	0.3	36'- 4"	515	4.9	3'- 1"	29	0.3	44'- 7"	629	6.0	3'- 9 1/4"	33	0.4
	21"	36'- 0"	608	5.3	3'- 2 1/4"	31	0.4	40'- 2"	660	5.9	3'- 6 3/4"	33	0.4	49'- 2"	823	7.2	4'- 4 1/4"	38	0.5
	24"	39'- 4"	672	6.0	3'- 8 3/4"	35	0.4	43'-11"	748	6.7	4'- 1 3/4"	36	0.5	53'- 9"	920	8.2	5'- 0 3/4"	42	0.6
	27"	42'- 8"	770	7.1	4'- 0 3/4"	38	0.5	47'- 8"	852	8.0	4'- 6 1/4"	41	0.5	58'- 4"	1039	9.7	5'- 6 1/4"	45	0.7
	30"	46'- 1"	839	8.0	4'- 5 3/4"	40	0.6	51'- 5"	949	8.9	5'- 0"	44	0.6	62'-11"	1154	10.9	6'- 1 3/4"	48	0.8
	33"	49'- 5"	947	9.2	4'-10"	45	0.7	55'- 2"	1040	10.3	5'- 4 3/4"	48	0.7	67'- 6"	1284	12.6	6'- 7 1/4"	50	0.9
	36"	52'-10"	1151	11.4	5'- 3"	49	0.8	58'-11"	1287	12.7	5'-10 3/4"	51	1.0	72'- 1"	1575	15.6	7'- 2 1/4"	55	1.1
	42"	59'- 6"	1365	14.2	6'- 0 1/4"	55	1.0	66'- 5"	1522	15.8	6'- 8 3/4"	57	1.2	81'- 4"	1867	19.4	8'- 3"	76	1.4
	48"	69'- 4"	1729	18.5	6'-10"	59	1.3	77'- 4"	1934	20.7	7'- 7 1/4"	79	1.5	94'- 9"	2360	25.3	9'- 3 3/4"	86	1.8
	54"	76'- 1"	2130	22.0	7'- 9 1/4"	83	1.6	84'-10"	2370	24.6	8'- 8"	87	1.8	103'-11"	2904	30.1	10'- 7 1/4"	95	2.2
	60"	82'-10"	2414	25.8	8'- 6 3/4"	90	1.9	92'- 5"	2673	28.8	9'- 6 1/4"	94	2.1	113'-2"	3286	35.3	11'- 8"	122	2.6
	66"	89'- 7"	2712	29.9	9'- 0 3/4"	96	2.1	99'-11"	3030	33.3	10'- 1 1/4"	101	2.4	122'-4"	3689	40.8	12'- 4 1/4"	130	2.9
	72"	96'- 3"	3210	34.2	9'- 8"	102	2.4	107'-5"	3572	38.2	10'- 9 1/4"	108	2.6	131'-6"	4364	46.8	13'- 2 1/4"	139	3.2

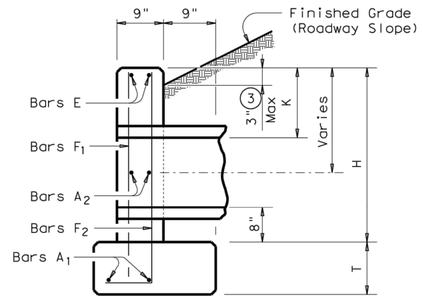


ELEVATION

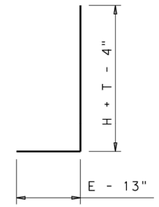


PLAN OF SKEWED PIPES

Showing 30° Skew



℄ SECTION



BARS F_2

TABLE OF CONSTANT DIMENSIONS

DIA OF PIPE, D	G	K	H	T	E
12"	9"	1'- 0"	2'- 8"	9"	1'- 9"
15"	11"	1'- 0"	2'-11"	9"	1'- 9"
18"	1'- 2"	1'- 0"	3'- 2"	9"	1'- 9"
21"	1'- 4"	1'- 0"	3'- 5"	9"	2'- 0"
24"	1'- 7"	1'- 0"	3'- 8"	9"	2'- 0"
27"	1'- 8"	1'- 0"	3'-11"	9"	2'- 3"
30"	1'-10"	1'- 0"	4'- 2"	9"	2'- 3"
33"	1'-11"	1'- 0"	4'- 5"	9"	2'- 6"
36"	2'- 1"	1'- 0"	4'- 8"	1'- 0"	2'- 6"
42"	2'- 4"	1'- 0"	5'- 2"	1'- 0"	2'- 9"
48"	2'- 7"	1'- 3"	5'-11"	1'- 0"	3'- 0"
54"	3'- 0"	1'- 3"	6'- 5"	1'- 0"	3'- 3"
60"	3'- 3"	1'- 3"	6'-11"	1'- 0"	3'- 6"
66"	3'- 3"	1'- 3"	7'- 5"	1'- 0"	3'- 9"
72"	3'- 4"	1'- 3"	7'-11"	1'- 0"	4'- 0"

TABLE OF REINFORCING STEEL (4)

Bar	Size	Spa	No.
A1	# 5	~	2
A2	# 5	1'-6"	~
E	# 5	~	2
F	# 5	1'-0"	~

GENERAL NOTES:

Designed according to AASHTO LRFD Specifications.

Reinforcing steel shall be placed with the center of the outside layer of bars 2" from the surface of the concrete.

All reinforcing steel shall be Grade 60.

All concrete shall be Class "C" and shall have a minimum compressive strength of 3600 psi.

No bridge rails of any type may be mounted directly to these culvert headwalls.

(1) Quantities shown are for concrete pipe and will increase slightly for metal pipe installations.

(2) Indicated slope is perpendicular to centerline Pipe or Pipes.

(3) For vehicle safety, curbs shall project no more than 3" above finished grade. Curb heights shall be reduced, if necessary, to meet these requirements. No changes will be made in quantities and no additional compensation will be allowed for this work.

(4) Quantities shown are for one structure end only (one headwall).

Texas Department of Transportation — Bridge Division Standard

CONCRETE HEADWALLS WITH PARALLEL WINGS FOR SKEWED PIPE CULVERTS

CH-PW-S

FILE: chpwsste.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: GAF
©TxDOT February 2010	CONT	SECT	JOB	HIGHWAY
REVISIONS	DIST	COUNTY		SHEET NO.

AS BUILT
10/29/2019

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FILE:

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JM CIVIL Engineering
5900 S. Lake Forest Dr., Suite 380
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John Measels, PE
CIVIL ENGINEER
FIRM NO. 19504
FIRM NO. F-19504
STATE OF TEXAS · JOHN THOMAS MEASELS · 93278 · LICENSED PROFESSIONAL ENGINEER
10/29/2019

LOT 90, BLOCK A, VAN BUREN ESTATES
NORTHWEST CORNER OF F.M.543 (WESTON ROAD) AND C.R.170 WESTON, TX 75097

REV	DATE	DESCRIPTION	NAME
	10/29/19	AS BUILT	TWA

PROJECT NO: JM-RR18001.0
DRAWN BY: TWA
CHECKED BY: AS
ISSUE DATE: 10/29/19

TXDOT DETAILS

C9.1

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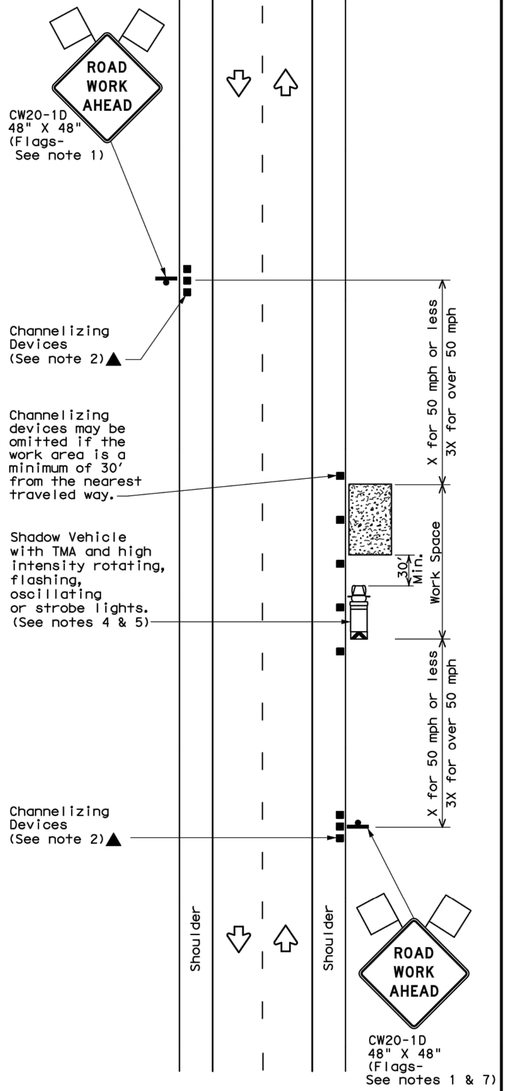
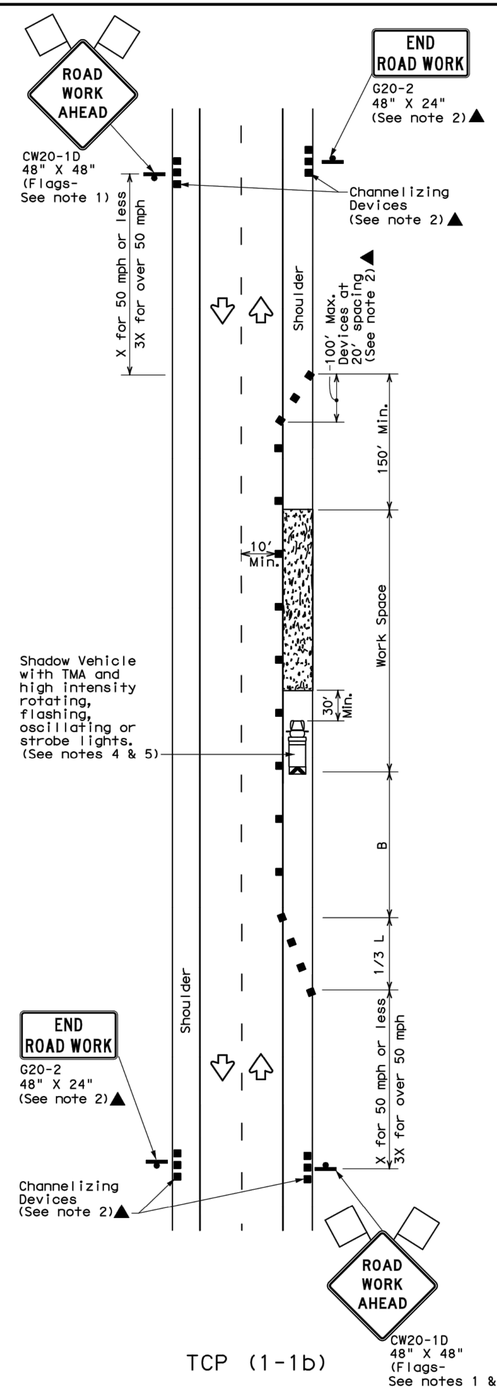


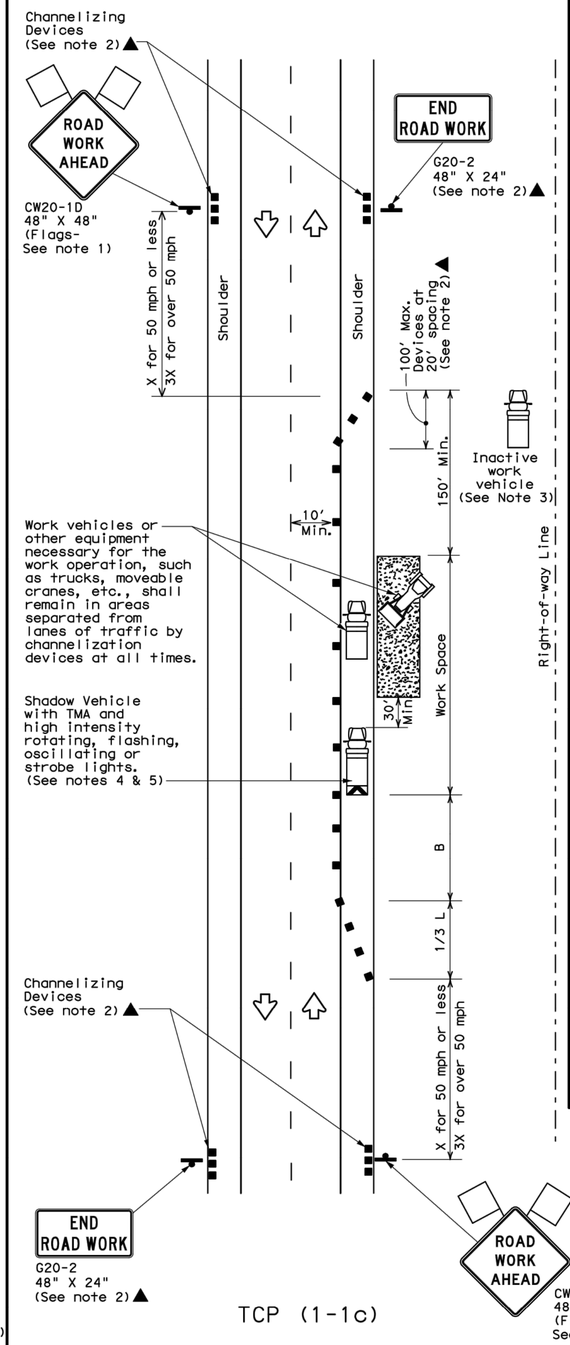
TCP (1-1a)

WORK SPACE NEAR SHOULDER
Conventional Roads



TCP (1-1b)

WORK SPACE ON SHOULDER
Conventional Roads



TCP (1-1c)

WORK VEHICLES ON SHOULDER
Conventional Roads

LEGEND			
	Type 3 Barricade		Channelizing Devices
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)
	Trailer Mounted Flashing Arrow Board	M	Portable Changeable Message Sign (PCMS)
	Sign		Traffic Flow
	Flag		Flagger

Posted Speed *	Formula	Minimum Desirable Taper Lengths ** 10' Offset	11' Offset	12' Offset	Suggested Maximum Spacing of Channelizing Devices: On a Taper	On a Tangent	Minimum Sign Spacing "X" Distance	Suggested Longitudinal Buffer Space "B"
30	$L=\frac{WS^2}{60}$	150'	165'	180'	30'	60'	120'	90'
35		205'	225'	245'	35'	70'	160'	120'
40		265'	295'	320'	40'	80'	240'	155'
45	L=WS	450'	495'	540'	45'	90'	320'	195'
50		500'	550'	600'	50'	100'	400'	240'
55		550'	605'	660'	55'	110'	500'	295'
60		600'	660'	720'	60'	120'	600'	350'
65		650'	715'	780'	65'	130'	700'	410'
70		700'	770'	840'	70'	140'	800'	475'
75		750'	825'	900'	75'	150'	900'	540'

* Conventional Roads Only

** Taper lengths have been rounded off.
L=Length of Taper(FT) W=Width of Offset(FT) S=Posted Speed(MPH)

TYPICAL USAGE				
MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
	✓	✓		

GENERAL NOTES

1. Flags attached to signs where shown are REQUIRED.
2. All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans, or for routine maintenance work, when approved by the Engineer.
3. Inactive work vehicles or other equipment should be parked near the right-of-way line and not parked on the paved shoulder.
4. A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
5. Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect wider work spaces.
6. See TCP(5-1)for shoulder work on divided highways, expressways and freeways.
7. CW21-5 "SHOULDER WORK" signs may be used in place of CW20-1D "ROAD WORK AHEAD" signs for shoulder work on conventional roadways.

For construction or maintenance contract work, specific project requirements for shadow vehicles can be found in the project GENERAL NOTES for Item 502, Barricades, Signs and Traffic Handling.

Texas Department of Transportation
Traffic Operations Division

TRAFFIC CONTROL PLAN CONVENTIONAL ROAD SHOULDER WORK

TCP(1-1)-12

DN: TXDOT CK: TXDOT DW: TXDOT CK: TXDOT

REVISIONS
2-94 2-12
8-95
1-97
4-98

CONT	SECT	JOB	HIGHWAY

DIST	COUNTY	SHEET NO.

151

AS BUILT
10/29/2019

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TXDOT DETAILS

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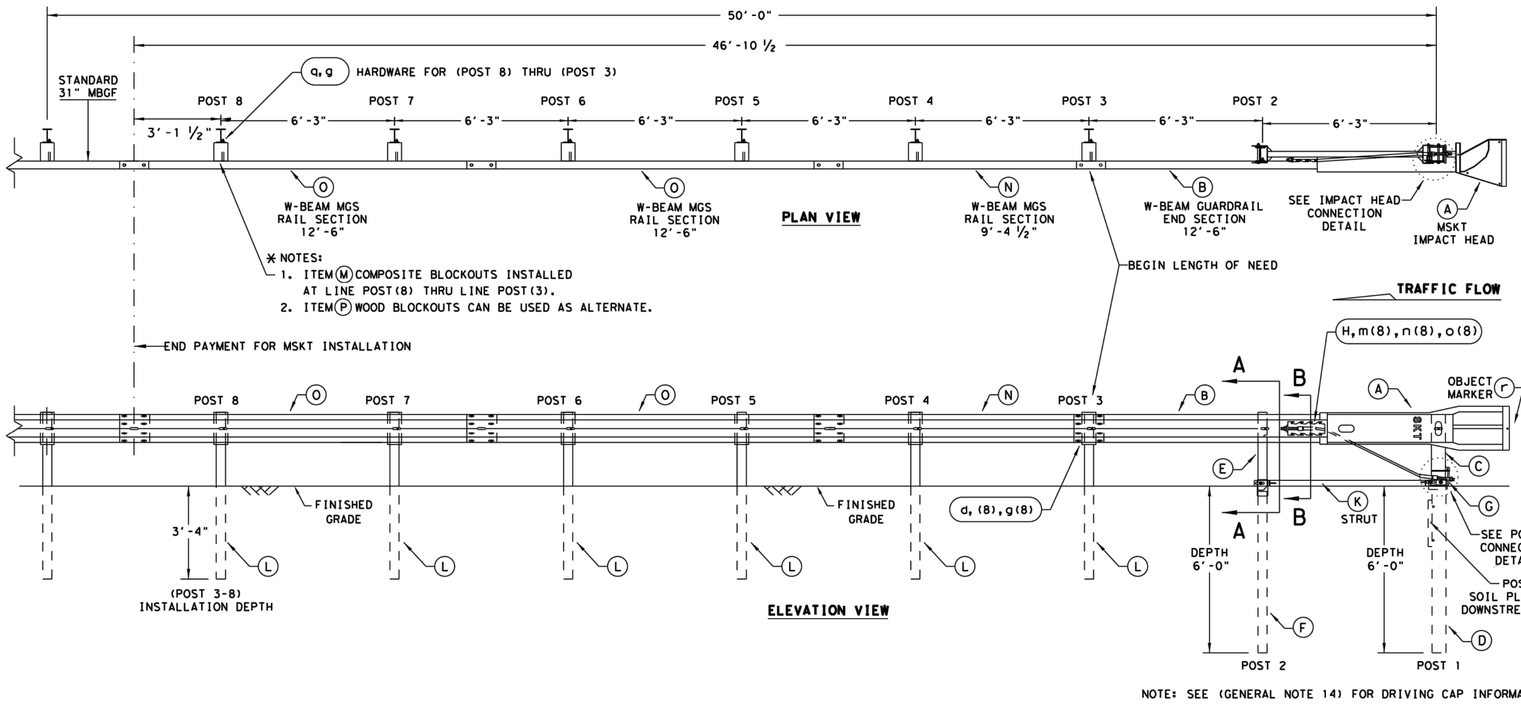
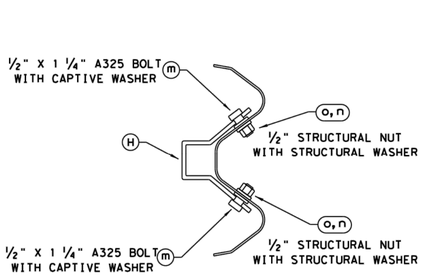
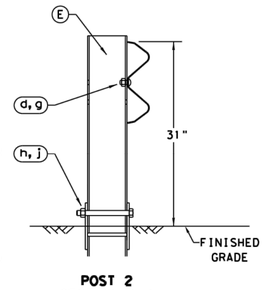


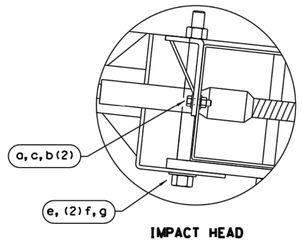
NOTE: SEE (GENERAL NOTE 14) FOR DRIVING CAP INFORMATION.



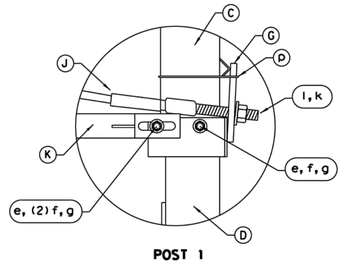
SECTION B-B
ANCHOR BRACKET



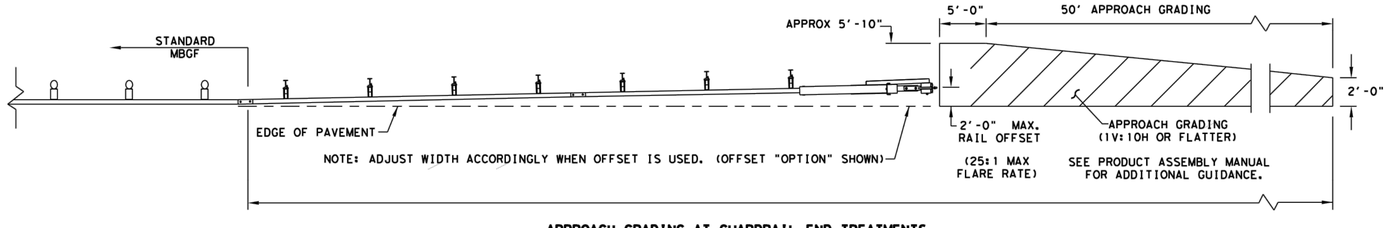
POST 2
SECTION A-A



IMPACT HEAD
CONNECTION DETAIL



POST 1
CONNECTION DETAIL



APPROACH GRADING AT GUARDRAIL END TREATMENTS

NOTE: TXDOT GENERIC APPROACH GRADING LAYOUT USED FOR ALL TANGENT TYPE END TREATMENTS.

TRAFFIC FLOW

NOTE: THIS STANDARD IS A BASIC REPRESENTATION OF THE MSKT END TERMINAL, IT IS NOT INTENDED TO REPLACE THE PRODUCT DESCRIPTION ASSEMBLY MANUAL.

DATE:
FILE:

GENERAL NOTES

1. FOR SPECIFIC INFORMATION REGARDING INSTALLATION AND TECHNICAL GUIDANCE OF THE SYSTEM, CONTACT: ROAD SYSTEMS, INC. (432)263-2435. 3616 OLD HOWARD COUNTY AIRPORT, BIG SPRING, TX 79720
2. FOR INSTALLATION, REPAIR AND MAINTENANCE REFER TO THE; MSKT END TERMINAL, PRODUCT DESCRIPTION ASSEMBLY MANUAL (PUBLICATION~062717).
3. APPLY HIGH INTENSITY REFLECTIVE SHEETING, "OBJECT MARKER" ON THE FRONT FACE OF THE DEVICE PER MANUFACTURER'S RECOMMENDATIONS. OBJECT MARKER SHALL CONFORM TO THE STANDARDS REQUIRED IN TEXAS MUTCD.
4. FOR POST (LEAVE-OUT) INSTALLATION AND GUIDANCE SEE TXDOT'S LATEST ROADWAY MOW STRIP STANDARD.
5. HARDWARE (BOLTS, NUTS, & WASHERS) SHALL BE GALVANIZED IN ACCORDANCE WITH ITEM 445, "GALVANIZING". FITTINGS SHALL BE SUBSIDIARY TO THE BID ITEM.
6. SYSTEM SHOWN USING STEEL WIDE FLANGE POSTS WITH COMPOSITE BLOCKOUTS.
7. A COMPOSITE MATERIAL BLOCKOUTS THAT MEETS THE REQUIREMENTS OF DMS-7210, MAY BE SUBSTITUTED FOR BLOCKOUTS OF SIMILAR DIMENSIONS. SEE CONSTRUCTION DIVISION MATERIAL PRODUCER LIST (MPL) FOR CERTIFIED PRODUCERS.
8. IF SOLID ROCK IS ENCOUNTERED IN THE AREA OF (POST 1) AND / OR (POST 2) CONTACT THE MANUFACTURER, & REFER TO THE LATEST ROADWAY MBGF STANDARD FOR INSTALLATION GUIDANCE.
9. POSTS SHALL NOT BE SET IN CONCRETE.
10. SYSTEM MUST BE ATTACHED TO STANDARD 31" MBGF.
11. UNDER NO CIRCUMSTANCES SHALL THE GUARDRAIL WITHIN THE MSKT SYSTEM BE CURVED.
12. A FLARE RATE OF UP TO 25:1 MAY BE USED TO PREVENT THE TERMINAL HEAD FROM ENCROACHING ON THE SHOULDER. THE FLARE MAY BE DECREASED OR ELIMINATED FOR SPECIFIC INSTALLATIONS, IF DIRECTED BY THE ENGINEER.
13. THE SYSTEM IS SHOWN WITH TWO 12'-6" MBGF PANELS, ONE 25'-0" MBGF PANEL IS ALSO ALLOWED IN THEIR PLACE.
14. A DRIVING CAP WITH A TIMBER OR PLASTIC INSERT SHALL BE USED WHEN DRIVING POSTS 3-8 TO PREVENT DAMAGE TO THE GALVANIZING ON TOP OF THE POST. SPECIAL DRIVING CAP TO BE USED ON LOWER POSTS 1 & 2 TO PREVENT DAMAGE TO THE WELDED PLATES.

ITEM	QTY	MAIN SYSTEM COMPONENTS	ITEM NUMBERS
A	1	MSKT IMPACT HEAD	MS3000
B	1	W-BEAM GUARDRAIL END SECTION, 12 Ga.	SF1303
C	1	POST 1 - TOP (6" X 6" X ⅛" TUBE)	MTPHP1A
D	1	POST 1 - BOTTOM (6' W6X15)	MTPHP1B
E	1	POST 2 - ASSEMBLY TOP	UHP2A
F	1	POST 2 - ASSEMBLY BOTTOM (6' W6X9)	HP2B
G	1	BEARING PLATE	E750
H	1	CABLE ANCHOR BOX	S760
J	1	BCT CABLE ANCHOR ASSEMBLY	E770
K	1	GROUND STRUT	MS785
L	6	W6x9 OR W6x8.5 STEEL POST	P621
M	6	COMPOSITE BLOCKOUTS	CBSP-14
N	1	W-BEAM MGS RAIL SECTION (9'-4 ½")	G12025
O	2	W-BEAM MGS RAIL SECTION (12'-6")	G1203A
P	6	WOOD BLOCKOUT 6" X 8" X 14"	P675
Q	1	W-BEAM MGS RAIL SECTION (25'-0")	G1209
		SMALL HARDWARE	
a	2	⅝" x 1" HEX BOLT (GRD 5)	B5160104A
b	4	⅝" WASHER	W0516
c	2	⅝" HEX NUT	N0516
d	25	⅝" Dia. x 1 ¼" SPLICE BOLT (POST 2)	B580122
e	2	⅝" Dia. x 9" HEX BOLT (GRD A449)	B580904A
f	3	⅝" WASHER	W050
g	33	⅝" Dia. H.G.R NUT	N050
h	1	¾" Dia. x 8 ½" HEX BOLT (GRD A449)	B340854A
j	1	¾" Dia. HEX NUT	N030
k	2	1 ANCHOR CABLE HEX NUT	N100
l	2	1 ANCHOR CABLE WASHER	W100
m	8	½" x 1 ¼" A325 BOLT WITH CAPTIVE WASHER	SB12A
n	8	½" STRUCTURAL NUTS	N012A
o	8	1 ⅛" O.D. x ⅝" I.D. STRUCTURAL WASHERS	W012A
p	1	BEARING PLATE RETAINER TIE	CT-100ST
q	6	⅞" x 10" H.G.R. BOLT	B581002
r	1	OBJECT MARKER 18" X 18"	E3151

SEE NOTES: *

ALTERNATIVE ITEMS NOT SHOWN. **
* ITEM(P) 8" WOOD-BLOCKOUT
** ITEM(Q) 25'GUARD FENCE PANEL

Texas Department of Transportation — Design Division Standard

SINGLE GUARDRAIL TERMINAL
MSKT-MASH-TL-3
SGT(12S)31-18

FILE: sgt12s3118.dgn	DN: TxDOT	CK: KM	DW: VP	CK: CL	
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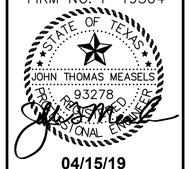

04/15/19

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		A	

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