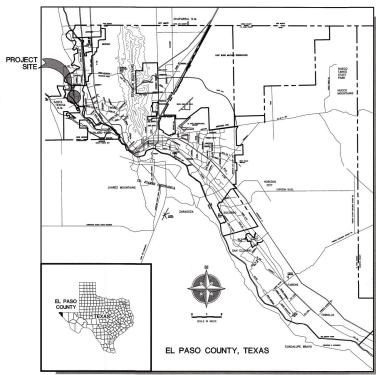
# **SERENO VALLEY ESTATES**

# SUBDIVISION IMPROVEMENT PLANS

TRACTS 1-L-1 & 1-L-2, BLOCK 10, UPPER VALLEY SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: ±16.52-ACRES

# CITY MAP



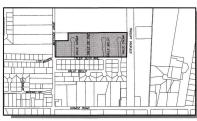






LANDSCAPE CONSULTANT: LISA MCNELIS LANDSCAPE ARCHITECT 1900 FOXBORO LAS CRUCES, NM, 88007 (575) 621–3032





# **LOCATION MAP**

SCALE: 1" = 600'

		INDEX OF DRAWINGS
1		SUBDIVISION PLAT PLAN
2	C-2	GRADING PLAN
3	C-3	DRAINAGE PLAN
4	C-4	VALLE SONAR DRIVE PLAN AND PROFILE
5	C-5	VALLE DE PAZ AVENUE PLAN AND PROFILE
6	C-6	VALLE BELLO AVENUE PLAN AND PROFILE
7	C-7	VALLE CALMA DRIVE PLAN AND PROFILE
8	C-8	WESTSIDE DR. IMPROVEMENTS
9	C-9	SITE DETAILS
10	C-10	STREET LIGHTING PLAN
11	C-11	STORMWATER POLLUTION PREVENTION PLAN
12	C-12	PHASING PLAN
13	U-1	WATER SYSTEM
14	U-2	WASTEWATER SYSTEM
15	U-3	UTILITY DETAILS
16	L-1	SITE MAP, SHEET INDEX, NOTES
17	L-2	PLANTING AND MATERIALS PLAN - SERENO TRIA
18	L-3	IRRIGATION - SERENO TRIAL
19	L-4	LAYOUT PLAN - SERENO TRAIL
20	L-5	LAYOUT PLAN - SERENO TRAIL
21	L-6	PLANTING AND MATERIALS PLAN - SERENO PAR
22	L-7	IRRIGATION PLAN - SERENO PARK
23	L-8	LAYOUT PLAN - SERENO PARK
24	L-9	PLAYGROUND EQUIPMENT
25	L-10	PLANTING AND CONSTRUCTION DETAILS
26	L-11	CONSTRUCTION DETAILS
27	L-12	IRRIGATION DETAILS
28	L-13	IRRIGATION DETAILS
29	L-14	IRRIGATION DETAILS

# PLAT NOTES AND RESTRICTIONS

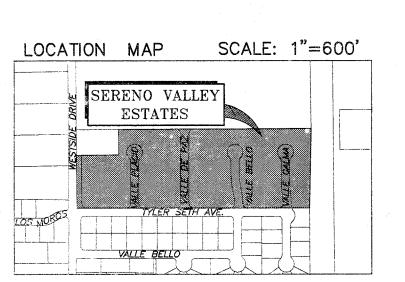
- 1. BEARINGS ARE BASED ON UNDERLYING DEEDS.
- 2. ACCORDING TO THE FEDERAL EMERGENCY MAPPING AGENCY, FLOOD INSURANCE RATE MAP, PANEL No. 480212 0125B, DATED SEPTEMBER 4, 1991, BY GRAPHIC PLOTTING ONLY, THIS PROPERTY APPEARS TO LIE WITHIN ZONE "X" WHICH BY DEFINITIONS IS NOT A SPECIAL FLOOD HAZARD ZONE..
- 3. SET 5/8" REBAR WITH CAP STAMPED "LAND-MARK TX 5710" AT ALL EXTERIOR BOUNDARY CORNERS UNLESS OTHERWISE NOTED.
- 4. TAX CERTIFICATE(S) FOR THIS SUBDIVISION ARE FILED IN THE OFFICE OF THE COUNTY CLERK, DEED AND RECORDS SECTION.

  INSTRUMENT No. 20170094272/273 DATE 12-20-17
- 5. RESTRICTIVE COVENANTS FOR THIS SUBDIVISION ARE FILE IN THE OFFICE OF THE COUNTY CLERK, DEED AND RECORDS SECTION.
- INSTRUMENT No. 20170094274 , DATE 12-20-17
- 6. THIS IS TO CERTIFY THAT WATER AND SEWER SERVICES WILL BE PROVIDED TO THE SERENO VALLEY ESTATES SUBDIVISION BY THE EL PASO WATER UTILITIES IN ACCORDANCE WITH ITS REGULATIONS, AND WATER AND SEWER SERVICES WILL BE EXTENDED TO THE SUBDIVISION FROM EXISTING FACILITIES LOCATED ON

WESTSIDE DRIVE, AND WILL BE CONSTRUCTED TO SERVE THE SUBDIVISION.

- 7. a.ALL LOTS IN THE SUBDIVISION ARE SUBJECT TO ON-SITE PONDING. LOT OWNERS ARE RESPONSIBLE FOR MAINTAINING ADEQUATE PROVISIONS TO ACCOMMODATE ALL STORMWATER RUNOFF GENERATED FROM THEIR RESPECTIVE LOT PLUS ONE-HALF THE RUNOFF GENERATED FROM ALL ABUTTING STREET RIGHT-OF-WAY DIRECTLY FRONTING THE LOT. THE POND DEPTH AND LOT GRADING REQUIREMENTS ARE AS PER APPROVED GRADING AND DRAINAGE PLAN FOR THL SUBDIVISION.
- b. WALLS CONSTRUCTED ABUTTING STREET RIGHT—OF—WAYS SHALL BE CONSTRUCTED WITH A SERIES OF DRAIN PIPES ALLOWING THE STREET RUNOFF TO BE CONVEYED TO THE SUBJECT PROPERTY.
- c.ON—SITE PONDING AREAS SHALL HAVE MAXIMUM ONE (VERTICAL) TO THREE (HORIZONTAL) SIDE SLOPES AND A MAXIMUM DEPTH OF TWELVE (12) INCHES BASED ON A ONE HUNDRED YEAR STORM.
- d.PERMANENT ELEVATION MARKERS SHALL BE INSTALLED TO DEFINE THE LEVELS TO BE MAINTAINED TO ENSURE THE EFFECTIVENESS OF ON—SITE PONDING. PERMANENT ELEVATION MARKERS SHALL NOT BE MOVED, COVERED, OR ALTERED WITHOUT WRITTEN PERMISSION FROM CITY ENGINEER.
- e. THE CITY AND/OR ITS REPRESENTATIVE IS GRANTED PERMANENT RIGHT OF ACCESS TO INSPECT THE PONDING AREAS AND PERMANENT ELEVATION MARKERS.
- f. FILLING OR CHANGING THE POND, OR ALLOWING THE POND TO BE FILLED OR CHANGED TO AN ELEVATION GREATER THAN ESTABLISHED BY THE PERMANENT ELEVATION MARKERS, IS PROHIBITED.
- g.ON-SITE PONDING AREAS AND PERMANENT ELEVATION MARKERS SHALL BE CONSTRUCTED AND INSPECTED PRIOR TO BUILDING OCCUPANCY, PERMANENT CERTIFICATE OF OCCUPANCY, REQUIRED TO OBTAIN UTILITY SERVICE, WILL BE ISSUED ONLY AFTER THE CITY OF EL PASO HAS PERFORMED THE INSPECTION.
- h.no person shall be permitted to impair the functionality of an on-site pond. No more than fifty-percent (50%) of the area of any residential lot conveyed by deed shall be covered by improvements, either temporary or permanent, which shed stormwater, including but not limited to, buildings, driveways, patios, decks or landscaping underlaid with plastic sheeting or other impermeable material.
- I. IN THE EVENT THAT THE FUNCTIONALITY OF AN ON—SITE POND BECOMES IMPAIRED WHETHER BY ACT OF MAN OR NATURE, THE OWNER OF THE LOT ON WHICH THE IMPAIRED POND IS LOCATED SHALL PERFORM ALL CORRECTIVE ACTIONS REQUIRED TO RESTORE THAT FUNCTIONALITY.
- j. ANY OWNER NOTIFIED IN WRITING BY THE CITY ENGINEER OF CORRECTIVE ACTIONS REQUIRED TO RESTORE THE FUNCTIONALITY OF AN ON—SITE POND OR DRAINAGE PROBLEM ON THE LOT SHALL COMPLY WITHIN FORTY—FIVE CALENDAR DAYS OF RECEIPT OF SUCH NOTICE; PROVIDED, HOWEVER, THAT NOTHING HEREIN SHALL PREVENT THE CITY FROM MANDATING AN EARLIER TIME FOR COMMENCEMENT OF COMPLETION DURING TIMES OF EMERGENCY, WHERE THERE IS IMMINENT DANGER OF LOSS OF LIFE, LIMB OR PROPERTY.
- k.OWNER OF PROPERTY UTILIZING ON—SITE PONDING WAIVES ANY CLAIM OR CAUSE OF ACTION AGAINST THE CITY, EPWU—PSB, OFFICIALS OR EMPLOYEES, FOR ANY DEATH, INJURY OR PROPERTY DAMAGE RESULTING FROM ALTERATION OF THE PONDING CAPACITY FOR THAT LOT, INCLUDING LACK OF MAINTENANCE.
- 1. THESE ON—SITE PONDING REQUIREMENTS SHALL BE ENFORCED BY INJUNCTIVE RELIEF WITHOUT THE REQUIREMENT FOR BOND OR OTHER SECURITY.
- m.THE CONVEYANCE OF PROPERTY PERMITTING ON—SITE PONDING SHALL DECLARE IN CONSPICUOUS LANGUAGE IN THE DEED THAT THE PROPERTY IS SUBJECT TO ON—SITE PONDING REQUIREMENTS, MAINTENANCE OF ELEVATION MARKERS, STANDING WATER ON LOT, AND INCRESS AND EGRESS FOR INSPECTION AS STATED ON THE PLAT.

SCHOOL DISTRICT:
CANUTILLO INDEPENDENT SCHOOL DISTRICT



		LINE TABLE	
	LINE	BEARING	LENGTH
	L1	S89°50'00"E	200.00'
	L2	N00°08'00"E	100.00'
ĺ	L3	N00°10'00"E	24.05'
	L4	N00°10'00"E	24.05
	L5	N00°10'00"E	18.71
	L6	N00°10'00"E	26.00'
. [	L7	N00°10'00"E	26.00'
	L8	N00°10'00"E	26.00'
	L9	N00°10'00"E	26.00'
ĺ	L10	S00°10'00"W	22.24'
	L11	S59°50'00"E	36.32
	L12	S59'50'00"E	28.28'

TRACT 1L, BLOCK 10, UPPER VALLEY SURVEYS

VOLUME 4019, PAGE 0682

GARCIA, BERNARDO & MARIA L.

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	375.00	90.54	45.49	90.32	N06°45'01"W	13°50'02"
C2	375.00'	89.23'	44.83'	89.02'	N06°51'01"W	13°38'03"
СЗ	375.00'	59.81	29.97	59.75	N04°24'09"W	9°08'19"
C4	375.00	58.50'	29.31	58.44'	N04°30'09"W	8°56′19"
C5	25.00'	39.26'	24.99'	35.35'	N44°51'00"W	89°58'00"
C6	25.00'	39.27	25.00'	35.36'	S45°10'00"W	90'00'00"
C7	20.00'	17.08'	9.10'	16.56	S24°17′32″E	48'55'04"
C8	50.00'	53.63'	29.72'	51.10'	S18°01'15"E	61°27'36"
C9	50.00'	30.47'	15.72	30.00'	S30°10'00"W	34°54′55″
C10	50.00'	47.30'	25.59	45.56	S74°43'35"W	54°12'15"
C1;	50.00'	53.13'	29.38'	50.66	N47°43'53"W	60°52'51"
C12	50.00'	27.45	14.08'	27.11	N33°21'15"E	31°27'36"
C13	20.00'	17.08'	9.10'	16.56	N24°37'32"E	48°55'04"
C14	25.00'	39.27	25.00'	35.36'	N44°50′00"W	90'00'00"
C15	25.00'	39.27'	25.00'	35.36'	S45°10'00"W	90'00'00"
C16	25.00'	39.27'	25.00'	35.36'	N44°50'00"W	90°00'00"
C17	25.00'	39.34'	25.07	35.41	S45°04'59"W	90°10'03"
C18	349.00	62.02'	31.09	61.94	S05°05'30"E	10°10'54"
C19	349.00'	21.23'	10.62	21.22	S11°55'30"E	3°29'06"
C20	401.00	61.39	30.75	61.33	S09°16'54"E	8°4€'17"
C21	401.00'	34.03'	17.03	34.02'	S02°27'53"E	4°51'46"
C22	20.00'	17.08'	9.10'	16.56	S24°29'32"E	48*55'04"
C23	50.00	27.63'	14.18	27.28	S33°07'15"E	<b>31°39</b> ′36"
C24	50.00	63.13'	36.56	59.02	S53°47'44"W	72°20′33″
C25	50.00'	63.48'	36.82	59.30'	N53°39′44″W	72°44'32"
C26	50.00'	27.28'	13.99	26.94	N33°15'16"E	31°15'36"

S89\*50`00**"**E 9<u>5</u>.81'

> 14,049 Sg. Ft.

5890 17 PUBLIC PARK/TRAIL 265.81

10' UTILITY & IRRIGATION EASEMENT >

N89'50'00"W

	CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
Ì	C27	20.00'	17.08	9.10'	16.56	N24°25'32"E	48°55'04"
	C28	349.00'	30.98'	15.50'	30.97'	N02°34'36"W	5°05'12"
Ì	C29	349.00'	52.06	26.08'	52.02	N09°23′37"W	8°32'51"
	C30	401.00'	31.84	15.93	31.83'	N11°23'34"W	4°32'58"
İ	C31	401.00'	64.09'	32.11'	64.02'	N04°32'22"W	9°09'26"
	C32	25.00	39.21'	24.94	35.32'	N44°53'49"W	89'52'21"
	C33	25.00'	39.34'	25.07	35.41	S45°04'59"W	90°10'03"
	C34	349.00'	54.64	27.38'	54.59'	S04°29'11"E	8°58'16"
	C35	401.00'	9.37'	4.69	9.37'	S08°18'09"E	1'20'20"
ĺ	C36	401.00'	53.19	26.63'	53.15	S03°49'59"E	7°35'59"
	C37	20.00'	17.08'	9.10	16.56	S24°29'32"E	48°55'04"
	C38	50.00'	27.63	14.18	27.28'	S33°07'15"E	31°39'36"
	C39	50.00'	50.84	27.86	48.68'	S46°45'11"W	58°15'28"
	C40	50.00'	62.59	36.14	58.58'	N68°15′23"W	71'43'23"
	C41	50.00'	70.93	42.92'	65.13'	N08°14'41"E	81°16'45"
	C42	20.00'	12.54	6.49	12.34	N30°55'00"E	35°56'08"
	C43	20.00'	4.53'	2.28'	4.52'	N06'27'28"E	12°58'56"
	C44	349.00'	15.29'	7.64'	15.29	NO1°17'17"W	2°30'35"
	C45	349.00'	39.16	19.60'	39.14	N05°45'27"W	6°25'44"
	C46	401.00'	63.96	32.05	63.89'	N04°24'09"W	9°08'19"
Î	C47	20.00'	5.40'	2.72'	5.39'	N07°34'23"W	15°28'47"
Ì	C48	50.00'	30.47	15.72	30.00'	S00°10'00"W	34*54'55"
	C49	50.00'	30.47	15.72	30.00'	N00°10'00"E	34°54'55"
	C50	50.00'	30.47	15.72	30.00'	S00°10'00"W	34'54'55"
	C51	50.00'	30.47	15.72	30.00'	N00°10'00"E	34°54'55"

CURVE TABLE

TRACT 1H, BLOCK 10, UPPER VALLEY SURVEYS

G.E. LAND DEVELOPMENT CORP.

VOLUME 3873, PAGE 0658

5894 26 PUBLIC PARK/TRAIL

N89°50'00"W (52.0' R.C.W.)

337.27'

S89"50'00"E

**13** 10,684 Sq. Ft.

315.00

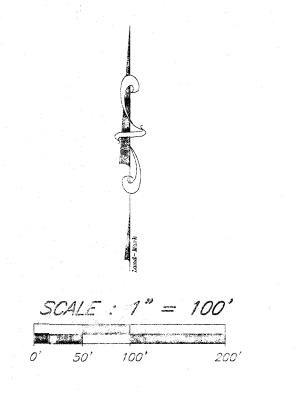
N89°50'00"W

B L O C K 1,

WESTSIDE ADDITION

VOLUME 78, PAGE 22,

FILE No. 20030025177



1265.60

302.98

B L O C K 2,

WESTSIDE ADDITION

VOLUME 78, PAGE 22,

FILE No. 20030025177

6,496 Sq. Ft.

N89°50'00"W

198.92

# SERENO VALLEY ESTATES

TRACTS 1L1 & 1L2, BLOCK 10, UPPER VALLEY SURVEYS, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING 16.540± ACRES

# DEDICATION

PALO VERDE DEVELOPMENT, LLC, the owners of this land, do hereby present this map and dedicate their respective portions of property to the use of the public, the streets, drives, public park & public park/trails, and utility/irrigation easements and additional dedicated right—of—way as hereon laid down and designated, including easements for overhang of service wires for pole type utilities and the right for installation of service poles alongside lot lines as may be required, easements for buried service wires, conduits and pipes for underground utilities, and the right to ingress and egress for service and construction, and the right to trim interfering trees and shrubs. PALO VERDE DEVELOPMENT, LLC, hereby reserve for themselves and their successors and assigns, all surface water rights and all ground water available to, or that may be produced from any of the foregoing



ACKNOWLEDGEMENT

# STATE OF TEXAS COUNTY OF EL PASO

dedicated areas.

Before me, the undersigned authority, on this day personally appeared \_\_\_\_\_\_, known to me to be the persons whose names are subscribed to the foregoing instrument and acknowledged to me that they executed the same as the act and deed for the purpose and consideration herein expressed.

Given under my hand and seal of office this

8/31/2019

December 2017.

ACKNOWLEDGEMENT

# STATE OF TEXAS COUNTY OF EL PASO

Given under my hand and seal of office this \_\_\_\_\_\_ day of \_\_\_\_\_\_ 2017.

Notary Public in and for El Paso County

My Commission Expires

# CITY PLAN COMMISSION

This subdivision is hereby approved as to the platting and as to the conditions of the dedication in accordance with Chapter 212 of the Local Government Code of Texas, this 19 day of 19 company 2017, A.D.

Executive Secretary

Chairman Chairman

Approved for filing this day of 2017
Planning & Aspections

FILING

County FOR RECORDING PURPOSES ONLY

SISIE CARRE

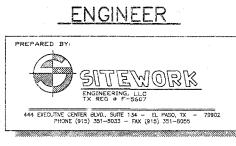
Subdivision improvement plans prepared by and under the supervision of Sitework Engineering, LLC

JORGE A. GARCIA, P.E. Licensed Professional Engineer Texas License No. 86437

# OWNERS PALO VERDE DEVELOPMENT, LLC 303 N. OREGON, SUITE 200

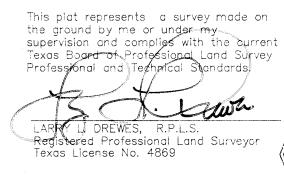
CONTACT: MR. CARLOS MURGUIA

EL PASO, TEXAS 79901



ENGINEERING AND PLANNING CONSULTATION BY:

JORGE A. GARCIA, PE SITEWORK ENGINEERING, LLC 444 EXECUTIVE CENTER, SUITE 134 EL PASO, TX 79902 (915) 351-8033





1420 Bessemer Drive, Suite 'A',
El Paso, Texas 79936

(915) 598-1300
email: Larry@Land-Marksurvey.com
"Serving Texas, New Mexico and Arizona"
CONTACT: LARRY L. DREWES, R.P.L.S.

Z:\13043 IAG T R A C T 1 L GARCIA, BERNARDO & MARIA L JOLUME 4019, PAGE 0682

WESTSIDE DRIVE

PUBLIC PARK/TRAIL

FF=3746.53 FG=3746.03

N89\*50'00"W

5889 L0T 4 FF=3745.75 FG=3745.25

		REQUIRE				DED PONDING		
LOT	BK	WATERSHED AREA (AC)	COEF.	REQ. POND (AC-FT)	CAPACITY (AC-FT)	MARKER ELEV (FT)	DEPTH (IN.)	FLOOD ELEV (FT
1	1	2.225	0.60	0.445	0.469	3744.53	9.9	3743.7
2	1	0.484	0.60	0.097	0.108	3743.75	10.8	3744.6
3	1	0.314	0.60	0.063	0.085	3743.75 3743.75	8.9	3744.5
4	1	0.314	8.9	3744.5				
5	1	0.393	0.60	0.079	0.083	3743.75	11.4	3744.7
6	1	0.514	0.60	0.103	0.143	3743.89	8.6	3744.6
7	1	0.504	0.60	0.101	0.133	3743.89	9.1	3744.6
8	1	0.364	0.60	0.073	0.076	3743.75	11.5	3744.6
9	1	0.294	0.60	0.059	0.078	3743.75	9.1	3744.5
10	1	0.294	0.60	0.059	0.078	3743.75	9.1	3744.5
11	1	0.408	0.60	0.082	0.083	3743.75	11.9	3744.7
12	1	0.408	0.60	0.082	0.083	3744.22	11.9	3745.2
13	1	0.294	0.60	0.059	0.078	3744.22	9.1	3745.0
14	1	0.294	0.60	0.059	0.078	3744.22	9.1	3745.0
15	1	0.364	0.60	0.073	0.083	3744.22	9.9	3745.0
16	1	0.560	0.60	0.112	0.145	3744.22	9.3	3744.8
1	2	0.560	0.60	0.112	0.145	3744.22	9.3	3744.8
2	2	0.364	0.60	0.073	0.083	3744.22	9.9	3745.
3	2	0.294	0.60	0.059	0.078	3744.22	9.1	3745.0
4	2	0.294	0.60	0.059	0.078	3744.22	9.1	3745.0
5	2	0.408	0.60	0.082	0.083	3744.22	11.9	3745.2
6	2	0.464	0.60	0.093	0.100	3743.88	11.1	3744.8
7	2	0.310	0.60	0.062	0.082	3743.82	9.1	3744.6
8	2	0.294	0.60	0.059	0.078	3743.82	9.1	3744.6
9	2	0.364	0.60	0.073	0.076	3743.28	11.5	3744.2
10	2	0.559	0.60	0.112	0.162	3743.14	8.3	3743,8
11	2	0.561	0.60	0.112	0.162	3743.14	8.3	3743.8
12	2	0.353	0.60	0.071	0.074	3743.82	11.5	3744.8
13	2	0.310	0.60	0.062	0.084	3743.82	8.9	3744.6
14	2	0.302	0.60	0.060	0.080	3743.82	9.0	3744.6
15	2	0.396	0.60	0.079	0.080	3743.82	11.9	3744.8
16	2	0.402	0.60	0.080	0.080	3743.75	12.0	3744.8
17	2	0.281	0.60	0.056	0.000	3743.75	9.2	3744.5
18	2	0.287	0.60	0.057	0.075	3743.75	9.1	3744.5
19	2	0.344	0.60	0.069	0.075	3743.21	9.3	3744.0
20	2	0.491	0.60	0.098	0.110	3743.85	10.7	3744.7
21	2	0.451	0.60	0.090	0.123	3743.85	8.8	3744.6
22	2	0.364	0.60	0.073	0.097	3743.75	9.0	3744.5
23	2	0.322	0.60	0.064	0.088	3743.75	8.7	3744.5
24	2	0.322	0.60	0.064	0.088	3743.75	8.7	3744.5
25	2	0.321	0.60	0.084	0.162	3743.75	6.7	3744.3

TRACT 1H, BLOCK 10, UPPER VALLEY SURVEYS R.P. BREWSTER LIMITED PARTNERSHIP VOLUME 3873, PAGE 0658



PORTING THE AND THE STREETING STREET

UPPER VALLEY SURVE COUNTY, TEXAS ?--ACRES

1-L-1 & 1-L-2, BLOCK 10, CITY OF EL PASO, EL PASO CONTAINING: ±16.52-

SERENO VALLEY ESTATES

1265.60

POND

5888 LOT 23 FF=3745.75 FG=3745.25

5884 LOT 24 F=3745.75 G=3745.25

920 27

5889 LOT 18 FF=3745.75 FG=3745.25

5885 LOT 17 FF=3745.75 FG=3745.25

2

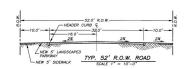
DRAINAGE PLAN

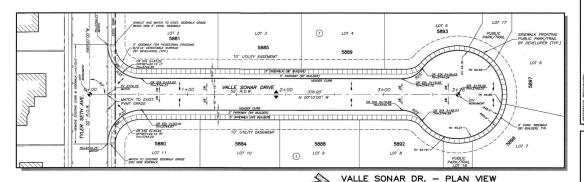
NO MORE THAN 50% OF THE AREA OF ANY RESIDENTIAL LOT SHALL BE COVERED BY IMPROVEMENTS OR IMPERVIOUS AREAS.

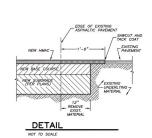


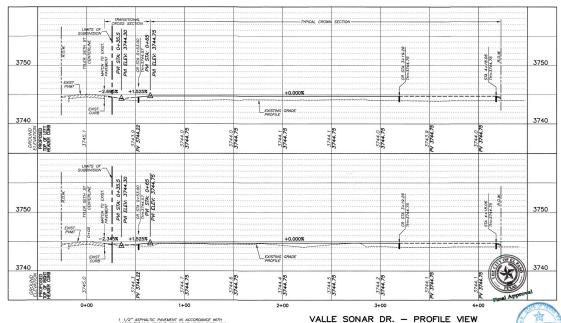


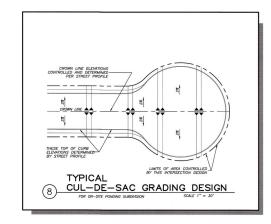
PLAN C-3 SHEET \_ 3 \_ OF \_ 11













PAVEMENT RECOMMENDATION BASED ON THE GEOTECHNICAL REPORT PREPARED BY SPEESOIL INC., DATED JULY 31, 2013, No. SPG13096. FINAL PAVEMENT DESIGN TO BE APPROVED BY CITY ENGINEERING BASED ON CBR TEST RESULTS.

(FOR VALLE SONAR, VALLE CALMA, VALLE BELLO & VALLE DE PAZ)

# PAVEMENT STRUCTURE

NOT TO SCALE



NOTES:

3. THE CONTRACTOR SHALL COORDINATE ALL UTILITY REMOVAL AND RELOCATIONS WITH THE APPROPRIATE UTILITY COMPANIE.

PROPOSED LOW POINT 4 PROPOSED HIGH POINT --RUNOFF DIRECTION • DENOTES A NEW CITY MONUMENT

PROPOSED SPOT ELEVATION STA= STATION TH= TOP OF CURB PV=PAVEMENT CR=CURB RETURN SUBDIVISION LIMIT

EXISTING CITY MONUMENT FOLMD AT THE INTERSECTION WESTS DRIVE, AND TYLER SETH DRIVE, ELEVATION : 3745,49 FT CITY DATUM (3755,68 FT NAVO 88 DATUM). 

> 1-L-1 & 1-L-2, BLOCK 10, UPPER VALLEY SUF CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: ±16.52-ACRES SERENO VALLEY ESTATES

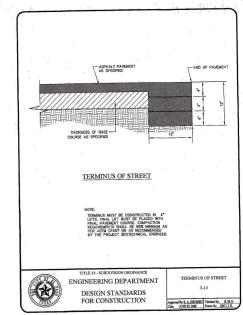
ROJ. NO. SCALE: 13043 SHOWN SSUED DATE: CITY APPROVAL

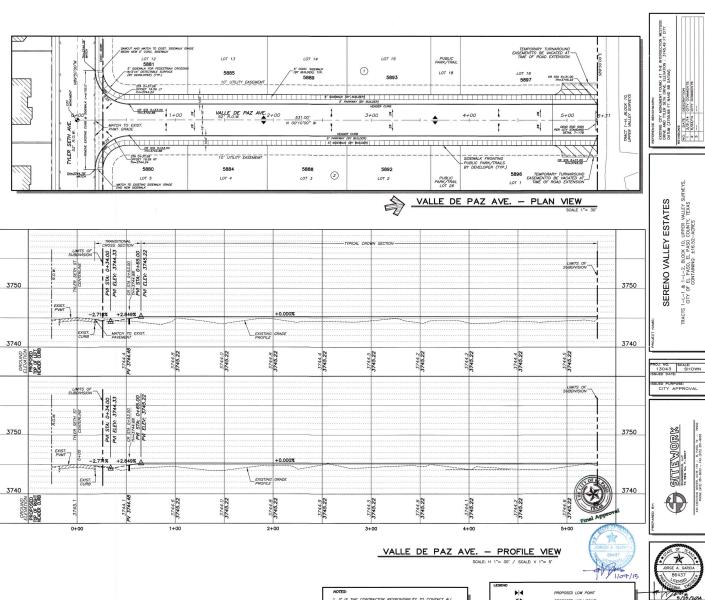




VALLE SONAR DR. PLAN AND PROFILE

C-4 SHEET 4 OF 11



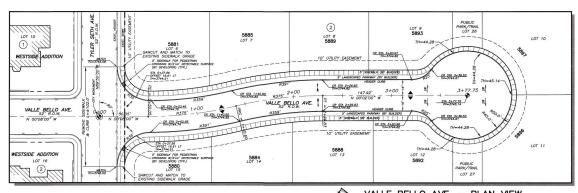


3. THE CONTRACTOR SHALL COORDINATE ALL UTILITY REMOVAL AND RELOCATIONS WITH THE APPROPRIATE UTILITY COMPANIES

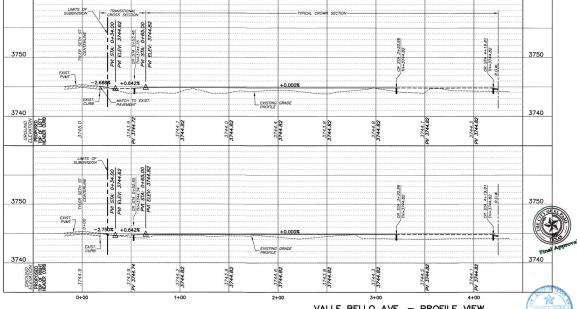
 $\triangleleft \triangleright$ PROPOSED HIGH POINT --RUNOFF DIRECTION • DENOTES A NEW CITY MONUMENT ROPOSED SPOT ELEVATION STA= STATION TH= TOP OF CURB PV=PAVEMENT CR=CURB RETURN SUBDIVISION LIMIT

VALLE DE PAZ PLAN AND PROFILE C-5 BHEET 5 or 11

This document, whether in hard copy or matches residuals former, is expected from the instrument of marking are required. In the appoint for which it was prepared. This document is not himseld or sufforcing for which it was prepared. This document is not himseld or only other project. A remark by very profit or expectation of such project for one of the project is premised from Scheleck Copyneering, U.S. for the specific purpose lateral in overside on of federal copyright law. Uncut-first law of this matched



VALLE BELLO AVE. - PLAN VIEW
SOAE 11- 30'



VALLE BELLO AVE. — PROFILE VIEW

SCALE: H 1"= 30" / SCALE: V 1"= 5"

NOTES:

1. III. TO THE CONTRACTOR RESERVED TO CONTRACT ALL
1. III. TO THE CONTRACTOR RESERVED TO CONTRACT ALL
1. III. TO COMPANIES FOR THE CARRY LITTLES INCLUDED UTILITY
NOT SYMPONY THE CONTRACTOR SHALL PROVIDE
NOT SYMPONY THE CONTRACTOR SHALL PROVIDE
AND UTILITIES DURING CONSTRUCTION.
2. CONTRACTOR IS RESPONSIBLE FOR VERTING ALL
DIMERSIONS AND ELERATIONS ON STEE AND SHALL CONTRA

COMMENCING WORK.

3. THE CONTRACTOR SHALL COORDINATE ALL UTILITY REMOVAL AND RELOCATIONS WITH THE APPROPRIATE UTILITY COMPANIES

PROPOSED LOW POINT
PROPOSED HOW POINT
RUNORT ORIECTION

STA X+00

TH-DOX

PROPOSED SAYT ELANTON
TH-DOX

PROPOSED SAYT ELANTON
TH-TOP OF CURB
PROPHER HELDEN
CHECKER HELDEN
SUBDINISHON LIMIT

Interpreted Benchmarker (1997)

DANA (Types of Water Street of Types of Typ

SERENO VALLEY ESTATES

TRACTS 1-L-1 & 1-L-2, BLOCK 10, UPPER VALLEY SIRVETS,
OFF DEPOSIT, ELPAS,
OGYNAMICS, ELSS,-AGES

PROJ. NO. SCALE:
13043 SHOWN
ISSUED DATE:
ISSUED PURPOSE:
CITY APPROVAL

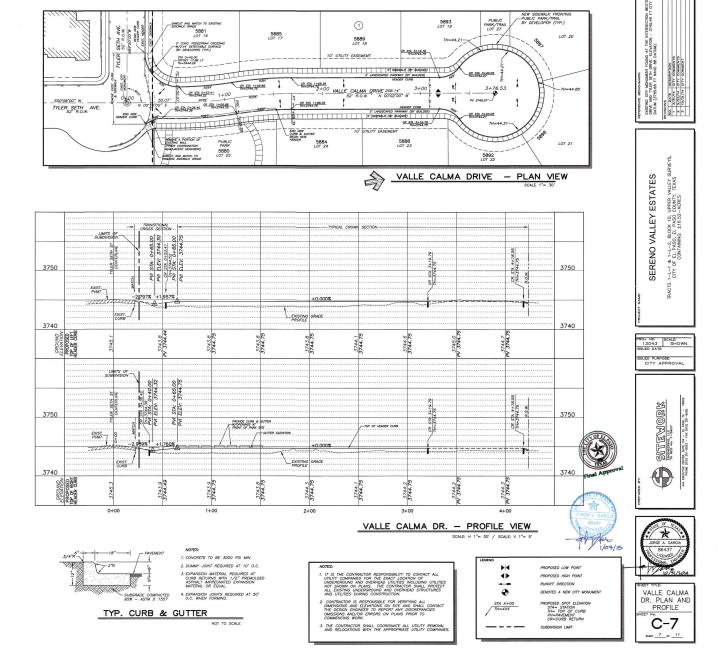




VALLE BELLO
PLAN &
PROFILE
SHEET NO.

9-EET 6 or 11





LOT 18

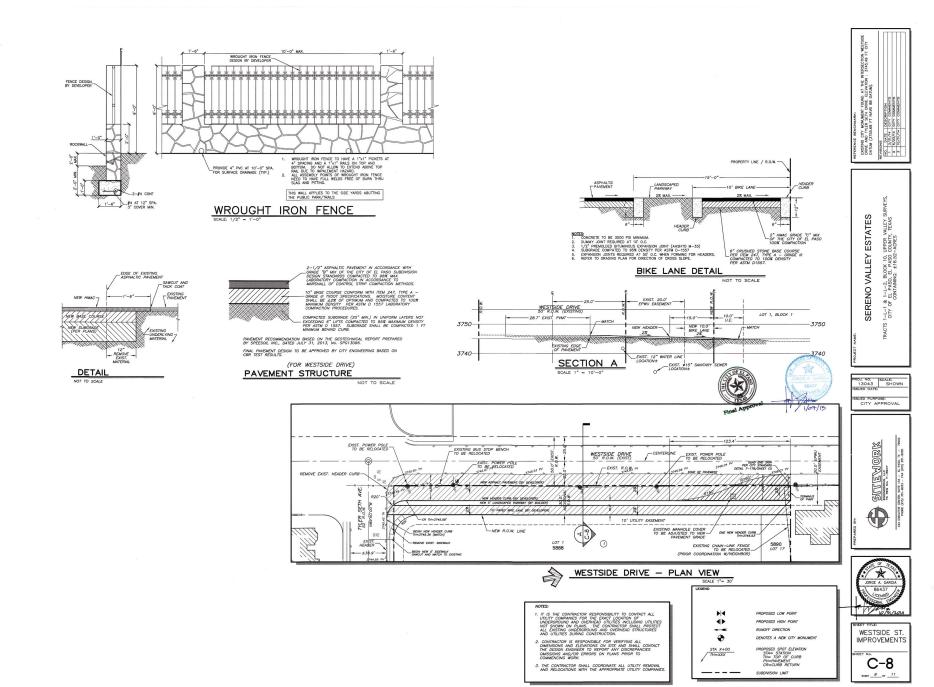
\_SAMOUT AND MATCH TO EXISTING SIDEWALK GRADE

LOT 16

LOT 17

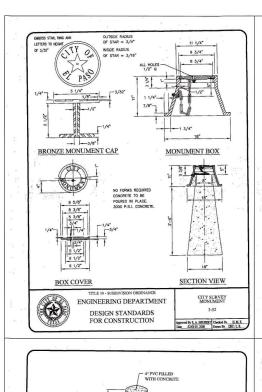
LOT 19

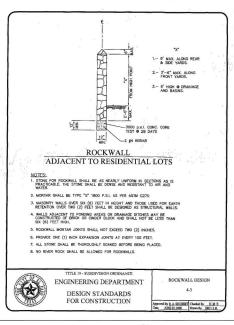
LOT 20

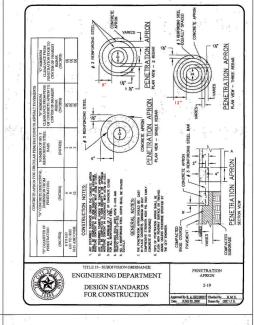


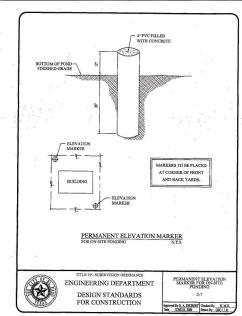


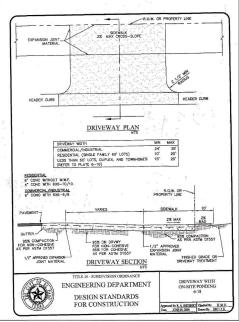


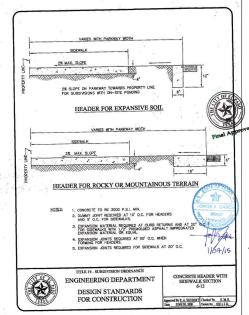


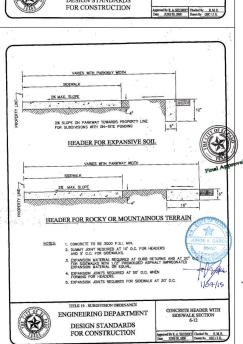








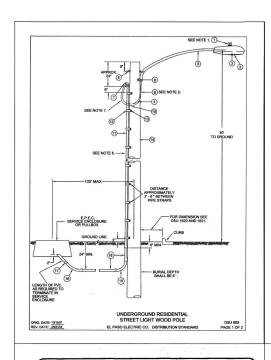








S-EET 9 or 11



-EPEC SERVICE ENCLOSURE OR PULLBOX

KEY NOTES:

TITLE 19 - SUBDIVISION ORDINANCE

ENGINEERING DEPARTMENT

DESIGN STANDARDS FOR CONSTRUCTION

KET NOTES:

1.1/2" GALVANIZED RIGID CONDUIT

2. REDUCER 1' TO 1/2" BUSHING

3. 1" PVC FEMALE ADAPTER

4. 1" PVC SO LLBOW

5. 1" PVC CONDUIT

6. 1" PVC CONDUIT

6. 1" PVC COUPLING

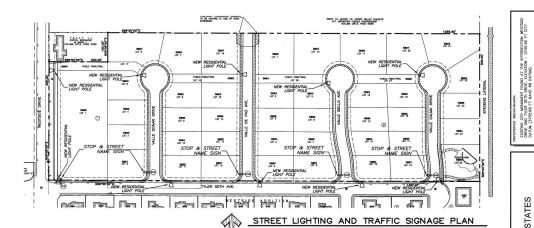
8. TAPE 1/2" RIGID CONDUIT (6")

0-

3-

RESIDENTIAL STREET LIGHT WOOD POLE

Approved By R. A. SHUBERT Checked By H. M. E.
Date JUNE 13, 2008 Drawn By QSC / J. R.



NOTE: ALL ROADWAY INTERSECTING EXISTING PUBLIC ROADWAYS SHALL REMAIN COMPLETELY CLOSED FOR PUBLIC USE UNTIL ACCEPTED FOR MAINTENANCE BY THE CITY.

Ø PROPOSED RESIDENTIAL WOOD LIGHT POLE

0 30" STS. NEW STOP SIGN (PER CITY OF EL PASO TRAFFIC DEPARTMENT STANDARDS)

PROJ. NO. SCALE: 13043 SHOWN ssilen elleense

CITY APPROVAL

SITEWORK FUNCTIONS

| NO | DATE | DESCRIPTION | 1 | 3/31/14 | CITY COMMENTS | 2 | 5/23/74 | CITY COMMENTS | 3 | 10/31/74 | CITY COMMENTS | 1 | |

1-L-1 & 1-L-2, BLOCK 10, UPPER VALLEY SUR CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING: ±16.52-ACRES SERENO VALLEY ESTATES









SITE LIGHTING & TRAFFIC SIGNAGE C-10 

DESCRIPTION Qty. Code No. 21-225 1 Code 21-085 1 21-335 1 LSLV1210 LBRKT1\*6

NOTES:

1 MOUNT 50 THAT PHOTO CELL IS FACING NORTH.

2 TIEMM 9 SHALL NOT BE SPLICED INSIDE ITEM 52.

3 ROYALAT DONNOT SO THAT PHOTO CELL IS FACING NORTH.

3 ROYALAT DONNOT SO THE SPLICED INSIDE ITEM 52.

5 ROYALAT DONNOT SO THE SPLICED SO SO QUESTIONS REGARDING THIS STANDARD, CALL THE

6 PLASS DE LEGENT COMPANY DISTRIBUTION DESIN QUESTIONS REGARDING THIS STANDARD, CALL THE

5 ON STREETS WHERE SECRIFICATION OF SO QUESTIONS REGARDING THIS STANDARD, CALL THE

7 THE SIZE OF LOWER TO PROPRETE THE SE 3 SHACES REQUIRED FROM BACK OF QUEST TO COMPLY

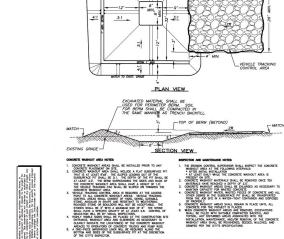
WITH AMERICAN DISABILITYS ACT AND LOCAL CODES.

6 THE CONDUIT RESE SHALL IES STAILED ON THE BACK OF THE WOOD POLE (AWAY FROM THE STREET

7 THE WIRE LEGGS FROM THE WEATHER HEAD TO THE MAGT ARM SHALL HAVE A MANMAN AT STRP LOOP

BEAUT THE WASHING HEAD.

ORIG. DATE: 10/15/97
REV. DATE: 09/21/04 EL PASO ELECTRIC CO. DISTRIBUTION STANDARD



CONCRETE WASHOUT AREA

\*

DRAINAGE PLAN: DRAINAGE PLAN IS ATTACHED TO THIS PLAN SET.

TYPES OF SOILS DISTURBANCES

CONSTRUCTION PHASING:

SOIL STABILIZATION PRACTICES:

STRUCTURAL CONTROL PRACTICES:

STORMWATER MANAGEMENT CONTROLS:

DID SILT FENCES
DEPAY BALES
PROCE BERMS
EARTH DOC/BERM
SEDMENT TRAP
PAYED FLUMES

BEST MANAGEMENT PRACTICES CONTROLS: WASTE MATTERN S MAJOR SOIL DISTURBING ACTIVITIES WILL CONSIST OF CLEARING AN GRUBBING; FINAL GRADING FOR CONSTRUCTION OF A RESIDENTIAL SUBDIMISION; EXCAVATION FOR FLUWES AND OTHER DRAINAGE HAZARDOUS WASTE NAME OF RECEIVING WATERS:
STORM RUNGET WILL BE DISCHARGED TO THE ADJACENT STREETS, TO BE
LATER CONNEYED IN AN EXISTING MUNICIPAL STORM SEVER SYSTEM. ABSTALL DOOR AND SERMINT CONTROLS (e.g. SLT FEMCE AND/OR EARTHON BERM, AND STABLEZED CONSTRUCTION ENTRANCE). 2. PERÍORI CLARIDA ON DO REBOUNDAD CONSTRUCTION ENTRANCE). 3. EXCLANATION FOR UTILITIES; 4. SELECTIVE CONJUNCTION OPPORTATIONS; 5. COMPUTE CONTROL OF SETE AMPROVEMENTS; OFF-STE VORQLE TRACKING
IN ADDITION TO THE STABILIZED CONSTRUCTION EXTRACCE(S). THE IMPACES SHALL BE OBSERVED DURING CONSTRUCTION
IN HALL ROOMS SHALL SE DAMPEDED FOR DUST COVERD.
LOADED HALL TRUCKS SHALL BE COMED WITH TARPALLINS
EXCESS BOTH OR ROOM SHALL BE REDIVED BY TEMPORARY SELENG
DEPTRIMATION TUNITIO, SOCIONG OR SELENG (OPTIONAL)
SOL RELEGION BLANKET
BESTERMATION OF NATURAL RESOURCES
OTHERS SPILL PREMENTION:
THE FOLLOWING PRACTICES SHALL BE USED TO REDUCE THE RISK OF SPILLS
OTHER ACCIDENTAL EXPOSURES OF MATERIALS TO STORMANTER MUNOFF. \* STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.

\*\* MEARLY STORE MATERIALS ON-SITE IN AN ORDERLY MANNER.

\*\* RECEP PRODUCTS IN THEIR ORBING, CONTAINER.

\*\* RECEP PRODUCTS IN THEIR ORBING, UNLESS OTHERWISE.

\*\* RECORD, CONTAINER.

\*\* RECORD, CONTAINER.

\*\* FOLIOW MANNEYACTIVETS FOR A PRODUCT REPORTS DEPOYMENT THE CONTAINE.

\*\* FOLIOW MANNEYACTIVETS FOR A PRODUCT REPORT DEPOYMENT THE CONTAINE.

\*\* FOLIOW MANNEYACTIVETS FOR A PRODUCT REPORT DEPOYMENT THE CONTAINE.

\*\* FOLIOW MANNEYACTIVETS FOR A PRODUCT REPORT OF PROPER USE AND DEPOYMENT MELL BE FOLIOWED. DO RETENTION PORO

DESCRIPTION PROPOSATION

OPENES STELLING BASIN

OPENES STELLING BASIN PRACTICES USED TO REDUCE RISKS

\* KEPF PRODUCTS IN THEIR ORIGINAL CONTAINER IF AT ALL POSSIBLE
SERVES LEBELS, PRODUCT INFORMATION AND MATERIAL
SAFETY SERVES PRODUCT IN ACCOMMING MITH MANUFACTURER'S
OR LOCAL, AND STATE RECOMMENDED METHODS. \*\*MARKELCHIRT'S SECONALIDE UNETHOS FOR SPIL CERNAL SALL
EK CLEAR, POSTE AND STE PRISONEL SHAL BE MACE ARMS OF
THE PROCEDURES. STEAM AND STE PRISONEL SHAL BE MACE ARMS OF
THE PRISONEL STEAM, AND COMPANY TO SPILL CLEAR PRINCIPAL
EXPT IN THE METHOD. STEAM, AND CO-OTTE, THE DECOMPTY

SPIL AREA SHALL BE WELL WITLATED AND APPROPRIATE CLOTHING
MALL BE WORK. REMARKS: MALL BE MORN; ANY SPILL SHALL BE REPORTED TO THE APPROPRIATE GOVERNMENTAL MEASURES SHALL BE TAKEN TO PREVENT A SPILL TO REOCCUR. MAINTENANCE AND INSPECTION PROCEDURES:

SEDMIENT CONTROL FENCE TRACT IN BLOCK TO, UPPER WILLEY SURVEYS
R.P. BREISSTER LANTED PARTMENDIP
VOLUME 3873, PAGE 0459 LOSINGUE OF ALLOWAGE NON-STONE WHITE DISCHARGES

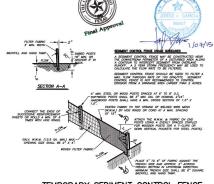
A DISCHARGE NAMED PER AND IN FLL COMPUTED WITH AN AMERICAN PROPERTY AND THE MEDIS FROM TOO DOCUMENTS WITH AN AMERICAN PER AND THE MEDIS FROM TOO DOCUMENTS

A DISCHARGE STAND FROM PROPERTY OF DOCUMENTS AND THE MEDIS FROM THE MED TARCA CATAVARDO 0000 (07 1) (77 - 3746,22) (70 - 2746,37) FT=3745.80 Fg=3745.38 5007 0000 LOT 11 FF-3748.14 FG-3345.64 10T 7 1T-2745.89 1T-2745.59 SIGN OF SCHOOL TENNERS AND A STATE O PUBLIC PAPE/TRAD FD=3745.25 5663 LDT 15 FF=3748.22 FG=3746.72 0003 LGT 9 PT-3745.82 PD-3745.32 6002 (6T 12 FF=3745.82 FS=2745.32 5002 LOT 8 FF=3745.75 FG=3745.25 0002 LOT 2 FF=3746.32 FG=3745.72 5003 LET 19 FF=3745.73 FS=3745.20 5000 LOF 23 FF=3745.76 FG=3745.25 LOT 1 FF=334E.53 F0=3746.03 (OT 4 (F-3745.75) (G-3745.25) FF=33\*63.75 FG=37\*63.25 (OF 14 FF=3744.22 FG=3745.72 5000 LOT 6 FF=3745.82 FG=3745.32 EGT 3 FF=3746.22 FG=3345.72 5000 (07 1) (76-3745.82 (16-3745.32 FG-3745.73 FG-3745.73 LISTING OF SOME PROHIBITED DISCHARGES (CONSTRUCTION) TEMP. OFFICE, STAGIING AREA & PORTABLE RESTI ☐ HAZARDOUS WASTE; ☐ ALL PETROLEUM DERIVATES (DIESEL, GASOLINE, THINNER, OL, ETC.); SEWAGE; ☐ TRADE (LEGHATE; ☐ DIESE 0004 UST 24 FF=3745.75 F6=3745.25 0000 LOT 17 FF=3340.70 FG=3745.25 LOT 13 FF=3746.22 FG=3745.72 0000 LCF 7 FF=3745.82 FG=3745.33 6004 LOT 10 F9=3745.75 F0=3745.35 FF-3745.82 F9-3745.82 10T 4 17T-2748.22 F0-3743.72 TEMP. CONST PUBLIC PARK 6880 LOT 25 FD=3745.23 5001 (07 12 FF=3746.22 F9=3746.72 5/8" Rebor op Stomped 3-MARK TX571 (30F) . City 3745.49 STORM WATER POLLUTION PREVENTION PLAN

> PLAN VIEW -50' MIN PROFILE GENERAL NOTES
>
> 1. THE LENGTH OF THE TYPE I CONSTRUCTION EXIT SHALL BE AS INDICATED ON THE PLANS, BUT NOT LESS THAN SO'. 2. THE COARSE AGGREGATE SHOULD BE OPEN GRADED WITH A SIZE OF 4" TO 8". THE APPROACH TRANSITIONS SHOULD BE NO STEEPER THAN 6:1. THE CONSTRUCTION EXIT FOUNDATION COURSE SHALL BE FLEXBLE BASE, BITUANNOUS CONCRETE, PORTLAND CEMENT CONCRETE OR OTHER MATERIAL AS APPROVED BY THE ENGINEER. THE CONSTRUCTION EXIT SHALL BE GRADED TO ALLOW DRAINAGE TO A

> > THE FINAL LOCATION OF THE CONSTRUCTION EXIT CAN BE AT THE DISCRETION OF THE CONTRACTOR, HOWEVER, THE INSTALLATION OF THE CONSTRUCTION EXIT CANNOT BE OMITTED. CONSTRUCTION EXIT (TYPE 1)

> > > OWNER CERTIFICATION



NOTES TO CONTRACTOR/OPERATOR

1. CONTRACTOR MUST COMPLETE AND FILE NPDES FORM "NOTICE OF INTENT" (NO)) FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY AND "NOTICE OF TERMINATION" (NOT) OF COVERAGE UNDER THE NPDES GENERAL PERMIN.

 A COPY OF THE STORMWATER POLLUTION PREVENTION PLAN SHALL BE KEPT ON THE CONTRUCTION SITE AT ALL TIMES. CONTRACTOR SHALL FOLLOW THE REQUIREMENTS FOR TEMPORARY & PERMANENT EROSION CONTROL AS OUTLINED ON THE PLANS. CONTRACTOR IS RESPONSIBLE FOR UPDATING THIS PLAN AS CONSTRUCTION PROGRESSES.

TEMPORARY SEDIMENT CONTROL FENCE \_\_\_(SCF)\_\_\_

GENERAL CONTRACTOR CERTIFICATION

AND CON SYSTEM DISCHAR	(NDPES) GENERAL PERMI GES ASSOCIATED WITH CO	W THAT I UNDERSTAND THE TER AL POLLUTANT DISCHARGE ELIMIN T THAT AUTHORIZES STORM WAT ONSTRUCTION ACTIVITY FROM THI S PART OF THIS CERTIFICATION.
OWNER:	SIGNED	DATE
OWNER:	NAME	DATE

SIGNED:	COMPANY:
NAME:	ADDRESS:
NTLE:	TELEPHONE:
	DATE:
START CONSTRUCTION	DATE:
ND CONSTRUCTION D	ATE:

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

EXISTING CITY MONUMENT OUND AT THE INTERSECTION WESTS DONC AND THER SETH DRIVE, ELEVATION: 3745,49 FT CITY DATUM (5755,58 FT NAVD 88 DATUM). 3/31/14 CITY C 5/23/14 CITY C

(a) E

UPPER VALLEY SUR COUNTY, TEXAS :-ACRES **ESTATES** : 1-L-2, BLOCK 10, U EL PASO, EL PASO C CONTAINING: ±16.52-SERENO VALLEY CITY OF

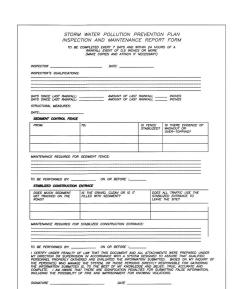
ROJ. NO. SCALE: 13043 SHOWN CITY APPROVAL

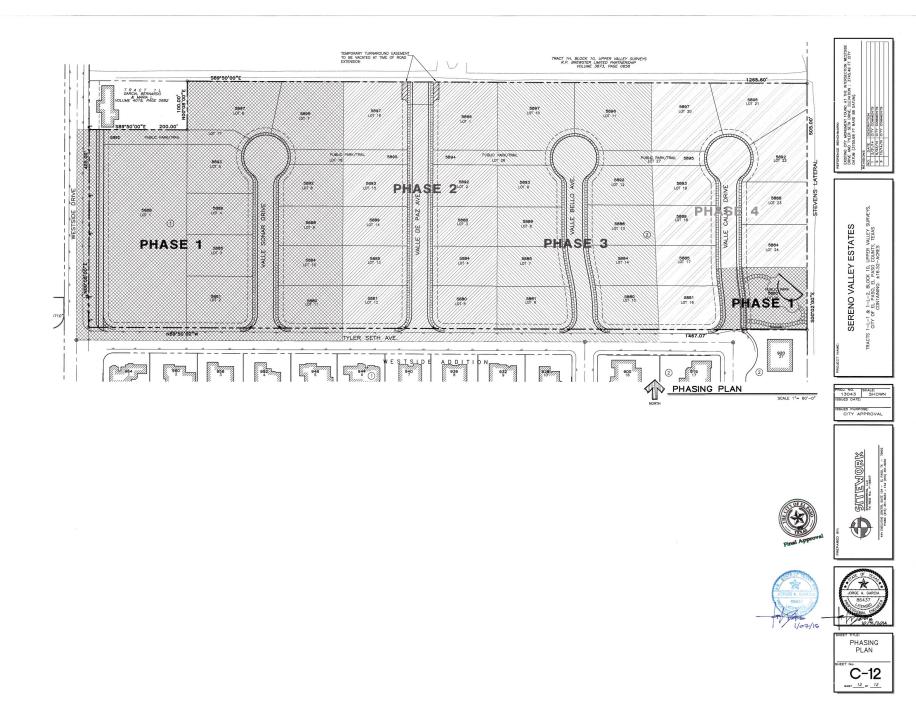


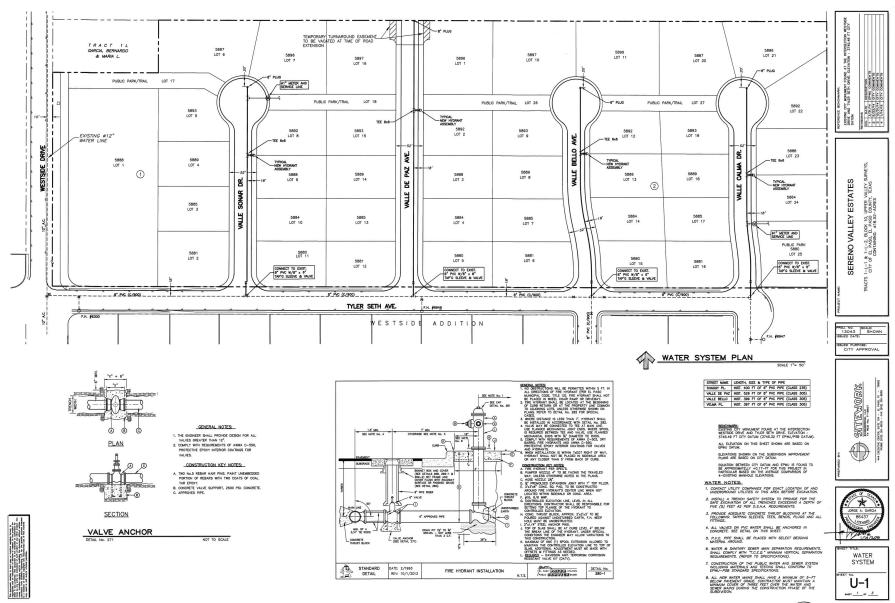


SWPPP

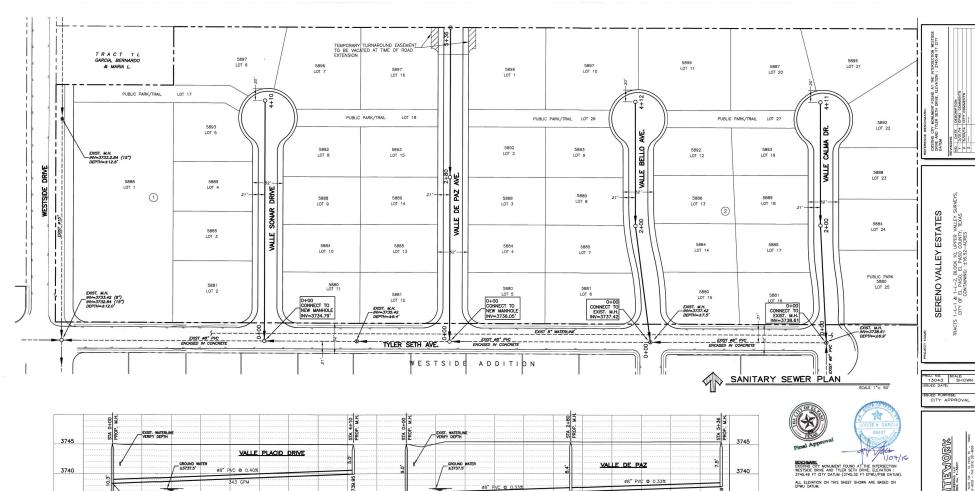
C-11 

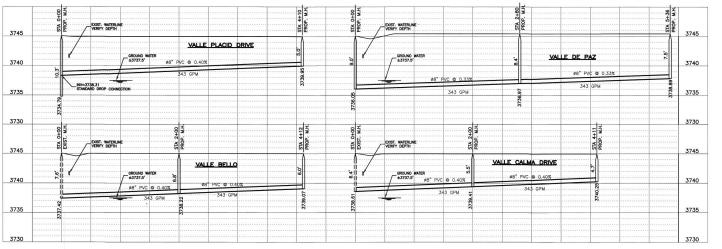












ELEVATIONS SHOWN ON THE SUBDIVISION IMPROVEMENT PLANS ARE BASED ON CITY DATUM.

# SEWER NOTES:

- CONTACT UTILITY COMPANIES FOR EXACT LOCATION OF AND UNDERGROUND UTILITIES IN THIS AREA BEFORE EXCAVATION.

- 8. CONTRACTOR MUST MUST MAINTAIN A MINIMUM COVER OF 3-FT OVER THE WATER AND SEWER MAINS DURING THE CONSTRUCTION PHASE OF THE SUBDIVISION, MAINS WITH LESS THAN 3-FT OF COVER DURING CONSTRUCTION SHALL NOT BE INSTALLED

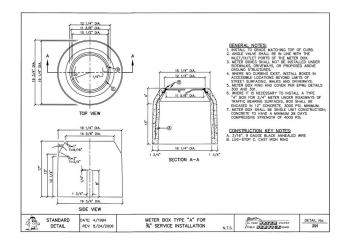


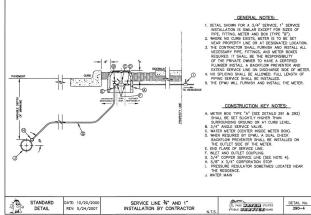
SITEWORK ENGREDING, L.C. TX REC NO. F-5607 

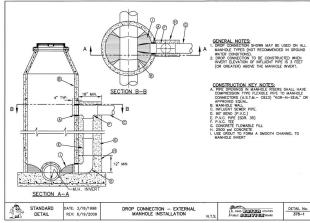


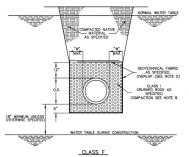
WASTERWATER SYSTEM

U-2 SHEET \_ 2 \_ OF \_ 3









- B. NO COMPACTION REQUIRED. USE MINIMAL TAMPING, RODDING OR HAUNCH SUCING CAREFULLY IN THE EMBEDWENT ZONE. IF REQUIRED BY THE ENGINEER, TEST PER ASTM D-4254 PERCENT OF RELATIVE DENSITY.
- PIPE DIAMETER "W"
  LESS THAN 24" 9"
  24" THRU 48" 12"
  GREATER THAN 48" 0.0./4

# EMBEDMENT CLASS F FOR FLEXIBLE PIPE

# GENERAL NOTES: STANDARD MANHOLE TYPE "A" SHALL BE USED FOR UNES 24" AND SMALLER.

- 1. STANDARD MANDAL TIPE "A" SHALL BE USE) FOR LIKE 32 A" MOBILIZE.

  SHALL BE SHALL BE OF SERVICE AND A SHALL BE OF SERVICED CONCRETE CONFORMED TO ASM SPECIFICATION C 478.

  CROWLET SHALL BE TIPE V (SULPHER SESSION).

  CONCRETE CHINALIZE SHOULD SHALL BE FLIGHT AND A SHALL BE WITH A COPPEY. THE ADMINISTRATION OF STANDER, SHOULD SHALL BE FLIGHT AND A SHALL BE SHALL BE FLIGHT AND A SHALL BE FLIGHT SHA

- UPPER 1/2 CUT OUT. E. CONCRETE BASE 6" + 1/2 OUTER DIAMETER OF THE PIPE. F. PROVIDE REINFORCEMENT WITHIN 3" O OPENINGS OR
- KNOCKOUTS.

  G. REINFORCING SHALL MEET ASTM C-478 AND T LOADING (HS-20). H. No. 4 REBARS 8" ON CENTER, BOTH WAYS
- I. MAY BE POURED MONOLITH WITH BASE.





1/07/15



0 (H) 9 0 SECTION

0

5" MIN. -

48"x 34.5" x 2" CONICAL SECTION

48" DIAMETER 4', 3', 2'

CONSTRUCTION KEY NOTES: A. MANHOLES BELOW GROUNDWATER TO BE EXTERNALL A GAMMONIA SELAN GAMMONIANTAN DIE ELEMANATION CONTROLLED GAMMONIANTAN DE L'AUGUSTATION DE GAMMONIA CONTROLLED GAMMONIANTAN DE COMPACTED TO SES DISENTAN A COCCIONANCE WITH ACRE DE COMPACTION OF COMPA

**DETAILS** 

-(7)

4

0-

4

OPENING AS REQUIRED TO FIT PIPE SIZE

GROUT AS REQUIRED GROUT GAP BETWEEN OPENING AND PIPE INSTALLATION GENERAL NOTES:

# CONSTRUCTION KEY NOTES:

D. STANDARD OVERLAP IS 2 FEET EXCEPT WHERE TRENCH WIDTH EXCEEDS 3 FEET THE OVERLAP AT TOP SHALL BE 3' FEET.

PROJ. NO. SCALE: 13043 SHOWN E. MAINTAIN A DRY TRENCH WHILE PLACING BEDDING AND FARRIC

UED PURPOSE: CITY APPROVAL

EXISTING CITY MONUMENT FOUND AT THE INTERSECTION 1851'S DRIVE, AND TYLER SETH DRIVE, ELEVATION : 3745,49 FT CITY DATUM

| NO. | DATE | DESCRIPTION | 1 3/31/14 | EPWL COMMENTS | 2 5/27/4 | EPWL COMMENTS | 2 | === | |

UPPER VALLEY SURY COUNTY, TEXAS 2-ACRES

1-L-1 & 1-L-2, BLOCK 10, I CITY OF EL PASO, EL PASO CONTAINING: ±16.52-

SERENO VALLEY ESTATES

SITEWORK SECTION



U-3 8HEET 3 or 3

#### SODDING NOTES - CITY OF EL PASO PARKS

#### SUBMIT THE FOLLOWING

SOD CERTIFICATION FOR GRASS SPECIES AND NAME AND LOCATION OF SOD SOURCE. SODDING SCHEDULE. INCLUDING DATES AND TYPE OF WORK TO BE PERFORMED. PRIOR TO ORDERING NAME OF SUPPLIER OF SOIL AMENDMENTS MATERIALS

- M ASE 16 MONTHS, WITH ROOT DEVELOPMENT THAT WILL SUPPORT ITS OWN WEIGHT WITHOUT MINIMA AGE IS MONTHS, MITH BOOT DEVELOPMENT THAT INLL SIPPORT ITS OWN MEIGHT WITHOUT TEARINS, MIERS SUPPONDED VERTICALLY BY HOLDING THE UPPER TWO CORNERS.
   DELIVERY, STORAGE AND HANDLING
   TIME DELIVERY SO THAT SOD WILL BE PLACED WITHIN 24 HOURS OF DELIVERY AT SITE. PROTECT
- AGAINST DRYING AND BREAKING OF ROLLED STRIPS.

  1. DELIVER PACKAGED MATERIALS IN CONTAINERS SHOWING MEIGHT, ANALYSIS AND NAME OF MANIFACTUREN. PROTECT MATERIALS FROM DETERIORATION DIRING DELIVERY AND HILLE STORED ON

#### SITE CONDITIONS

- E CORDITION PROCESS IN THE ADDICATE HORK AS RAPILLY AS PORTIONS OF SITE BECOME MALABLE PORKING WITH SEMBOAL INITIATIONS FOR EACH KIND OF LANDSCAPE HORK REQUIRED. HIGH CONDITIONS OF EMPRISHENCE, TO FLAN SOUTH HAVE BLOCKHING SOFTEMENTAL TO FLAN SOUTH HAVE BLOCKHING SOFT BEIGHT AND CITY OF THE LANDSCAPE DESIGNER AND CITY OF EL PAGO PARKS AND RECREATION BEFORE PLANTING.
- FLANT OR INSTALL MATERIALS DURING NORMAL PLANTING SEASONS FOR EACH TYPE OF LANDSCAPE WORK REQUIRED. CORRELATE PLANTING WITH SPECIFIED MAINTENANCE PERIODS TO PROVIDE MAINTENANCE FROM DATE OF FINAL ACCEPTANCE.

L. APERDYDEN'S PROVIDE SOIL, ANALYSIS BEFORE ADDITION OF SOIL AMENDMENTS & ANALYSES OF SOIL AMENDMENTS, ORGANIC AMENDMENTS SHALL CONSIST OF MELL-AGED ORGANIC COMPOST OR APPROVED EQUAL.

9. SLOW-RELEASE STARTER FERTILIZER ANALYSIS AS RECOMMENDED BY LANDSCAPE ARCHITECT BY WEIGHT AT A RATE OF I LB OF ACTUAL NITROGEN PER LODG SQUARE FEET BY WEIGHT

# 6RASS MATERIALS

SWADD MATERIALS OF ROTTED SOD, NOT LESS THAN IS MONTHS OLD AND FREE OF MEEDS AND INDESERVALE NATURE SWADES AND MACHINE OUT TO PAO THICKNESS OF \$4 MICH, MILLS OR MINUS 1/4 MICH, EXCLUDING TOP ROWITH AND THATCH. PROVIDES DO CAPABLE OF ROWITH AND DEPLECES AN ANIMAM OF IS NICES MICE.

II. PRIOR TO START OF SOIL PREPARATION ALL FINISH GRADES SHALL BE ESTABLISHED AND APPROVED AS MEETING THE REQUIREMENTS OF THE GRADING PLAN. APPLY A UNFORM ONE-INCH LAYER (3 C.Y./1000 SQUARE FIET) OF ORGANIC SOIL AMENDMENT, AFTER APPLICATION OF ORGANIC CYTICOD SOUNCE TEET) OF CRAING SOIL MEDIOMETI, AFTEK APPLICATION OF CRAING ANNOHAD MANAGEMENT AND STATEMEN PERTURNEL AL AREAS TO BE SOLDED SHALL BE INFORMATION FOR CONTINUE TO A NIMMA DEPTH OF IZ INCESS. AFTEK ROTOTULING IS COPPLETE AT ACROSS DIRECTIONS, PRAS, AND LASER LEVEL TO AN EVEN GRADE, THEN ROLL FOR FIRMEDS, RAKE TILLED AREA AND REMOVE STOKES ONES I LIKEN IN ANY DIMENSION, STOKE, ROOTS, RUBBEH AND OTHER RETENANCIOS MATTER. ROLL ENTIRE AREA WITH WEIGHTED HAND ROLLER.

#### SCODING OPERATIONS

- 12. LAY SOD WITHIN 24 HOURS OF DELIVERY AT SITE. DO NOT PLANT DORMANT SOD OR ON PROZEN
- IS. IF SOIL IS DRY, MOISTEN AREAS BEFORE SODDING. MATER THOROUGHLY AND ALLOW SURFACE
  MOISTURE TO DRY. DO NOT ORBATE A MIDDRY SOIL CONDITION.
   REMOVE FIBER MESH USED BY SOO FARM TO TRANSPORT SOO ROLLS AS SOO IS BEING INSTALLED.
- 15. LAY SOD TO FORM A SOLID MASS WITH TIGHTLY FITTED JOINTS, NO JOINT SHALL BE MORE THAN 1/8" LAY SOD OVER MOISTENED SOIL LIGHTLY RAKING THE SOIL AHEAD OF EACH SOD STRIP. BUTT ENDS AND SIDES OF SOD STRIPS. DO NOT OVERLAP. STASSER STRIPS TO DEF-SET JOINTS IN ADJACENT COURSES. LAY SOD PARALLEL TO CONTOURS OF SLOPE. WORK FROM BOARDS TO AVOID DAMAGE TO SUBSOIL OR SOD. TAMP FIRMLY AND EVENLY BY HAND TO ENSURE CONTACT WITH SUBSOIL. WORK
- SIFTED TOPSOIL OR SAND INTO MINOR CRACKS BETWEEN PIECES OF SOD

  16. WATER SOD THOROUGHLY WITH A FINE SPRAY IMMEDIATELY AFTER PLANTING

# MAINTENANCE

- The BEGN MAINTENANCE IMPEDIATELY AFTER PLANTING.

  18. MAINTAIN LAWS FOR NOT LESS THAN A PERIOD OF AT LEAST 60 DAYS AFTER COMPLETION AND ACCEPTANCE OF SOD, INSPECTION TO DETERMINE ACCEPTANCE OF SODDED LAWNS MILL BE MADE BY PARKS STAFF AND SITES SOUTHWEST REPRESENTATIVE UPON CONTRACTOR'S REQUEST, PROVIDE NOTIFICATION AT LEAST 10 WORKING DAYS BEFORE REQUESTED INSPECTION DATE, AND LONGER AS REQUIRED TO ESTABLISH AN ACCEPTABLE LAWN.

  SODDED LAWNS TO BE MAINTAINED NOT LESS THAN 60 DAYS AFTER COMPLETION AND ACCEPTANCE OF
- SODDING OPERATIONS
- 20. MAINTENANCE TO INCLUDE WATER SOD THOROUGH EVERY 2 TO 3 DAYS MIN. AS REQUIRED TO ESTABLISH PROPER ROOTING
- AWIER SOO THOROUGH EVERY 2 TO 3 DAYS M.A. SA EGUIRED TO ESTABLISH PROPER ROOTING. REPLACE DEAD OR INCESSO AREA THAT HAVE MASSED OUT OR RECORD. REPLACE DEAD OR INCESSIAALE SOO SECTIONS WITH HEM SOO. MONIL LAWN AREAS WERN THE GRAGS IS OVER 2 INCESS HIGH FOR FIRST OUTTING. TEXTILIZE LAWN WITH TOP DRESINGS FERTILIZER AT I LB. PER (200 SOFT, OF INTROSEN, WATER 21. ADDITIONAL LAWN MAINTENANCE CONSISTS OF MEEDING, TRIMMING AND OTHER OPERATIONS SUCH AS ROLLING, REGRADING AND REPLANTING AS REQUIRED TO ESTABLISH A SMOOTH ACCEPTABLE LAWN.

# CLEANUP AND PROTECTION

FREE OF ERODED OR BARE AREAS.

CLEMAY AND MOTIOTICAL SUPPRINCIPATION OF AND WORK AREA IN AN ORDERLY CONDITION.

23. PRIOTIC FORK, NO HAITERIALS PROVIDENCE DE TO SODDING OPERATION, OPERATION BY OTHER CONTRACTIONS AND TRADES AND DEPROAGES. HANNER REPORTION DISNING INSTILLATION AND MAINTENANCE PERSONS. THEAT, REPARK OR REPLACE DAMAGED MORK AS DIRECTED.

# NSPECTION AND ACCEPTANCE

24. WHEN INSPECTED WORK DOES NOT COMPLY WITH REQUIREMENTS REPLACE RELECTED WORK AND CONTINUE SPECIFIED MAINTENANCE WITH REINSPECTED BY THE LANDSCAPE DESIGNER AND CITY OF EL PASO PARKS AND RECREATION AND FOUND TO BE ACCEPTABLE. REMOVE RELECTED SOD AND

PLANS MUST BE SUBMITTED TO TEXAS DEPT OF LICENSING AND REGULATION FOR COMPLIANCE WITH TEXAS ACCESSIBILITY STANDARDS.

ALL PARK IMPROVEMENTS SHALL COMPLY WITH ADAAG AND TAS RULES AND REGULATIONS AS THEY APPLY.

TDLR # EABRJB5802173(8914)

- THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE OTHER CONTRACTORS WORKING ON THE SITE. COORDINATE INSTALLATION OF SLEEVING!

- 6. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS.
- LOCATION OF THE CONTROLLER AND BACKFLOW SHALL BE APPROVED BY CITY OF EL PAGO PARKS AND RECREATION DEPT.
- STAKE OUT ROTOR HEAD AND PIPING LOCATIONS PRIOR TO TRENCHING. AFTER APPROVAL BY CITY OF EL PASO PARKS AND RECREATION DEPT., TRENCHING AND
- . THE CONTRACTOR SHALL NOT IMPEDE DRAINAGE IN ANY MAY, THE CONTRACTOR SHALL ALMAYS MANTAIN POSITIVE DRAINAGE AMAY FROM BUILDINGS, MALLS, ETC.
- ALL PIPINS/WIRING RUNNING BENEATH PAVED SURFACES (DRIVES, MALKS, ETC.) SHALL BE INSTALLED IN SCHEDULE 40 PVC SLEEVES.
- VALUE, INNINO BHALL DE SI SEPARATE TRECHE FIVE FEET (5) FROM PRESSARE MAIN LIBE ON KORTH AND PRESS SIDE OF HAIN REVOICE DE PASION LODGES FOR MINIS DESTY 2007 LINES SHALL NOT DE STRETCHED THAT: LIBE DRIVENILE CONNECTIONS FACTORY FILLED WITH SILLCOME FOR VALUE ARE. SPILECES ARE DAT LAUCHED ENTERINE CONTROLLER AND VALVES, SPARE REMOTE CONTROL VALVE WIRES MIST DE OTHER THAN STANDARD RED IN COLOR.

- ALL FLUSHING, TESTING AND ADJUSTING. THE CONTRACTOR MUST PROVIDE 24 HRS NOTICE TO THE CITY OF EL PAGO PARKS AND RECREATION DEPT. PRIOR TO CONDUCTING THE TESTS. FLUSHING AND TESTING SHALL BE PERFORMED IN ACCORDANCE WITH PARKS
  AND RECREATION DEPARTMENT DESIGN AND CONSTRUCTION STANDARDS.

- THE CONTRACTOR SHALL MAINTAIN ALL WORK INTIL ALL WORK IS COMPLETE AND ACCEPTED BY THE CITY OF EL. PAGO PARKS AND RECREATION DEPT.
- WATERING TIME: TO SET TURF STATIONS SEE TURF IRRIGATION SYSTEM DESIGN CRITERIA. SET PER LOCAL WATERING CODES.

#### GENERAL IRRIGATION NOTES

- ALL MATERIALS LISTED BY BRAND NAME MAY BE SUBSTITUTED BY EQUAL OR BETTER PRODUCTS AS APPROVED BY THE CITY OF EL PASO PARKS AND RECREATION DEPT.
- THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING AND PROPOSED UTLITIES, AND ALL SITE CONSTITUTION PRIOR TO ESSIMING CONSTRUCTION, ANY DAMAGE CAUSED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED AN 100 ADDITIONAL COST TO THE OWER.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY WATER PRESSURE, MATER SOURCE AND SIZE IN THE FIELD PRIOR TO CONSTRUCTION. SHOULD A DISCREPANCY EXIST BETWEEN DESIGN PRESSURE AND PIELD PRESSURE THE LANGEAGE ARCHITECT SHALL BE NOTIFIED INVESTIGATELY.
- If PRESSURE IS MORE THAN 95 PSI DOWNSTREAM OF METER NOTIFY THE PROJECT MANAGER AND LANDSCAPE ARCHITECT IMMEDIATELY.

- BY CITY OF EL PASO PARKS AND REC EQUIPMENT INSTALLATION MAY BESIN
- ETC.) SHALL DE NOVALLEN IN SCHEDLE AO PIAS, SLEPPAS.

  SELEPAS MOR DE SA THE DIAMETER SEU OF PER DIA-AGO, REMOTE CONTROL, NIRNIS MIST DE RIAN IN SEMANTI SLEPPAST. BLEVES PROVIN INSCANTION PIRE SLEPPAS.

  DETEND SLEPPAS PRINT-FORR INCHES OF DIROYON DESSE OF HARD SURFACES, PRAP.

  BODS WITH FORR (4) MIST PLANTIC NOD GOOD GUALITY PLASTIC TAPE. SRAY, CLOTH DUCT TAPE IS NOT ACCEPTABLE.
- ALL VALVES SHALL BE TASSED WITH A MATERPROOF TAS SHOWING VALVE NIMBER, LABEL ALL WIRING AT CONTROLLERS AND PARELS.
- B. ALL PIPE CUTS SHALL BE MITERED TO 40 DEGREES TO ASSURE PROPER SOLVENT WELD. ALL BURRS SHALL BE REMOVED PRIOR TO SLUING AND MUST HAVE A FILED BEVELED EDGE A MINIMUM OF
- SHALL BE SHANDER FORCE TO GAINA MON-MET HAVE A PILLED BEVILED EDGE A MINIMAN OF CONCENTRATION OF THE THAT LIBE 5-100FF CAUSES FROM THE OFFICE THAT THE MAIN PROCESS.

  FINE MEDIT BE CLARK AND PRINCES AND LIBE MONTH AS GLEE IS APPLIED AND PICK PIPES IS ACCESSED. DIES FROM THE PLANT FROM THE PIPES AND PIPES IN A PILLED AND PICK PIPES IS ACCESSED. DIES FROM THE PIPES AND PIPES IN A PILLED AND PIPES IN A PILLED AND PIPES AND PIPES IN A PILLED AND PIPE AND PIPES AND PI
- A CITY OF EL PASO PARKS AND RECREATION DEPT. REPRESENTATIVE MUST BE PRESENT DURING
- THE FINISH GRADE OF ALL TRENCHED AREAS SHALL BE SMOOTH, EVEN AND CONSISTENT, FREE OF ANY HUMPS, DEPRESSIONS OR OTHER GRADING IRREGULARITIES. OVERFILL TRENCHES AND COMPACT SO NOT TO CRUSH THE PIPE, PRIOR TO SODDING INSPECT TRENCHES AND COMPACT SO NOT TO CRUSH THE PIPE, PRIOR TO SODDING INSPECT TRENCHES FOR SETTLING AND BACKFILL AND RESRADE IF NECESSARY, DO NOT LAY SOD INTIL TRENCHES ARE ACCEPTABLE.
- THE CONTRACTOR SHALL PROVIDE A WATER AUDIT CONDUCTED IN THE PRESENCE OF THE CITY OF EL PAGO PARKS AND RECREATION DEPT. REPRESENTATIVE.
- 20, WARRANTY PERIOD IS ONE YEAR FROM DATE OF ACCEPTANCE.

# PROJECT AREAS SITE MAP

# GENERAL NOTES:

I. THE CONTRACTOR SHALL VISIT AND FAMILIARIZE HIMSELF WITH THE PROJECT SITE PRIOR TO SUBMITTING HIS BID. 2. CONTRACTOR SHALL BE FAMILIAR WITH PLANS, DETAILS AND SPECIFICATIONS AS THEY PERTAIN TO THE SITE, IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE OWNER'S REPRESENTATIVE IF ANY ITEMS CONTAINED WITHIN THE SCOPE OF WORK DEFINED HEREIN, ARE IN CONFLICT WITH THE PROPOSED CONTRACT. EXISTING UTILITY LINES ARE TO BE BILLE STAKED PRIOR TO EXCAVATION, CHECK AND FIELD VERIFY ALL SITE CONDITIONS, UTILITIES AND SERVICES PRIOR TO EXCAVATION, CONSTRUCTION WORK IN CLOSE PROXIMITY TO UNDER-REQUIDINITIES SHALL BE CORDINATED WITH APPOPULATE AGENCY.

THE CONTRACTOR SHALL COORDINATE THE CONSTRUCTION SCHEDULE WITH OWNER, ALL AFFECTED UTILITY COMPANIES, AND ALL OTHER ENTITIES HAVING JURISDICTION OVER THE PROJECT.

5. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND GRADES PRIOR TO COMMENCING WITH THE WORK, ANY DISCREPANCY NOTED SHALL BE REPORTED IMPEDIATELY TO THE PROJECT MANAGER, FALLING OF THE CONTRACTOR TO REPORT ANY FIELD AND PLAN DISCREPANCIES SHALL MAKE THE CONTRACTOR REPORTSILE FOR WORK THAT IS

VIDRATORY ROLLERS SHALL NOT BE PERMITTED ON ANY PHASE OF THIS PROJECT, UNLESS APPROVED IN WRITING BY THE CITY ENSINEER.

ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN STRICT CONFORMANCE WITH ALL CURRENT SAFETY CODES AND STANDARDS, INCLIDING BUT NOT LIMITED TO, OSHA REGUIREMENTS.

WARNINSI BEFORE EXCAVATINS, CONTRACTOR SHALL LOCATE AND PROTECT ALL UNDERSROUND UTILITIES LINES. CONTRACTOR SHALL REPLACE ANY UTILITIES DAMASED DURING CONSTRUCTION AT NO ADDITIONAL COST TO OWNER. CONTRACTOR SHALL MATER CONSTRUCTION SITE AREA A MINIMUM OF TWICE. A DAY TO DUST CONTROLL, ONCE IN THE MORNING AND ONCE IN THE AFTERNOON, THIS SHALL, ALSO BE DONE ON MEEKENDS AND HOLIDAYS. IO. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING IMPROVEMENTS IN THE PROJECT AREA AND ITS VICINITY, ANY DAMASE RESULTING FROM CONTRACTOR WORK SHALL BE RESTORED AT NO COST TO OWNER.

II. CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL RESULATION DURING CONSTRUCTION ACTIVITY. 12. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ENVIRONMENTAL FINES RESULTING FROM HIS/HER WORK AND HOLD THE CHIREN HARMLESS IN SILM CASPA.

THE OWNER HAPPLESS IN SCHI CASES.

BE CONTRICTOR SHELL SEGMENT BY SITE DURING CONSTRUCTION TO PROTECT THE AREA PRIORY VANDALISM AND LILLIAM, TRESPHORMS, CONTRICTOR SHALL SEGMENT BY SITE AT INSPIRED, OCCUR CONTRICTOR SHALL SHE THE PROPERTY OF THE PROPERTY

6. CONTRACTOR SHALL INSIRE THE FOLLOWING. ALL ACCESSIBLE ROTTES SHALL NOT EXCEED A RINNING SLOPE SPEARER THEN IZOSSIN, NO MERCE SHALL THE CROSS SLOPE OF AN ACCESSIBLE ROOTE EXCEED ISOCION, MARCHAN SLOPE OF AUXIMISE WITTERS, ROAD SHAPECE MEMBRIAITY AND AUXICENT TO THE MERR RAMP, OR ACCESSIBLE ROTTE SHALL NOT EXCEED IZOSSIN, MARCHAN RINNING SLOPE OF ANY CARR RAMP SHALL ROT EXCEED IZOSSIN, SLOPE. ALL ACCESSIBLE PARTS SHALL CORPLY WITH THIS AND ALL ROAD SHAPES SHALL ROT EXCEED IZOSSIN, SLOPE.

L1

L2

L3

14

1.5

L6

1.7

L8

1.9

L10

L11

L12

L13

L14

SHEET INDEX

PLANTING AND MATERIALS PLAN-SERENO PARK

SITE MAP, SHEET INDEX, NOTES

IRRIGATION - SERENO TRAIL

LAYOUT PLAN - SERENO TRAIL

LAYOUT PLAN - SERENO TRAIL

LAYOUT PLAN - SERENO PARK

PLAYGROUND EQUIPMENT

CONSTRUCTION DETAILS

IRRIGATION DETAILS

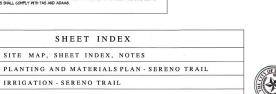
IRRIGATION DETAILS

IRRIGATION DETAILS

IRRIGATION PLAN - SERENO PARK

PLANTING AND CONSTRUCTION DETAILS











LANDSCAPE IMPROVEMENTS

ш

VALL

ഗ

STAT

ESTA

S

σ±

MCNEL-

1400 FOXB 1400 FOXB 1200 FOXB 1515) 621-34

SHEET TITLE

NOTES AND INDEX

SHEET 1 OF 14

	TREE LEGEND/SCHEDULE SERENO TRAIL PROJECT TOTAL											
SYM	KEY	COMMON NAME	BOTANICAL NAME	CONT.	SIZE	QUANT.	REMARKS					
0	LOT	LIVE OAK	QUERCUS VIRGINIANA	24"B0X	2' CAL-IOHT-6' SPREAD	8	SINGLE-FULL					
0	RAT	RAYWOOD ASH	FRAXINUS OXYCARPA	24"B0X	2" CAL-IOHT-6" SPREAD	19	SINGLE TRUNK-FULL					

PROJECT	PROJECT TOTAL MATERIAL LEGEND INDICATED BY    I									
	I, 3/4" DESERT TAN GRAVEL 3" DEPTH 2" BELOW ALL CONCRETE SURFACES, USE MEED BARRIER PROJECT TOTAL [16/64] SF SEE DETAIL K. ON SHEET LII									
	TIMDE CONCRETE WALKING TRAIL PROJECT TOTAL 946 LF SEE DETAIL D ON SHEET LIO									
	<ol> <li>2"-9" COBBLESTONE 9" DEPTH</li> <li>2" BELON ALL CONCRETE SURFACES, USE WEED BARRIER PROJECT TOTAL S9716 SF</li> <li>SEE DETAIL K ON SHEET LII</li> </ol>									
	<ol> <li>RECESSED AREA 6"-8" DEPTH FOR WATER HARVESTING.</li> </ol>									
	<ol> <li>6'-O' DUMOR 54 SERIES BENCH - BRONZE WITH ADA SEATING AREA.</li> <li>SEE DETAIL J ON SHEET LII</li> </ol>									
	<ol> <li>ROCK WALL - USE COMBINATION FENCE ON SID OF SUBDIVISION LOTS FOR FIRST 20' THEN STO SEE DETAIL M ON SHEET LII</li> </ol>									
	NOTE: WEED BARRIER SHALL BE DEWITT, PRO 5 OR APPROVED EQUAL. WEED BARRIER TO BE PINNED ON 9' CENTERS WITH ILL-SHAPE PIN									

TREE NOTES:

MINIMUM BRANCHING CLEARANCE IS T' OVER SIDEWALK

DO NOT SELECT TREES WITH LOW FORK BRANCHING PATTERN. PRUNING TO MEET CLEARANCE REQUIREMENTS WILL DESTROY FORM OF TREES WITH THAT GROWTH HABIT.

MINIMUM HEIGHT IO'. 2" CALIPER AT 6" ABOVE TOP ROOT.

# PARKS DEPT. NOTES FOR PLANTING:

- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PREVENT FLANTS PROM PALLING OR BRING BLOWN COTES AND TO STRAIGHTEN OR DECEMBER OF THE PROMISE OF THE PROMISE OF THE PROMISE TO THE OWNER, BUT SHALL NOT BE A CAUSE FOR ADDITIONAL EMPINEE TO THE OWNER, BUT SHALL BE THE FINANCIAL RESPONSIBILITY OF CONTRACTOR.
- OF CONTRACTOR.

  TOPPOIL MATERIAL FOR PLANTINGSHALL BE FREE FROM HARD CLODS, STIFF CLAY, HARD PAIN, STONES LARGER THAN I'N DIAMETER, NOXIOUS WEEDS AND PLANTS, SOD, PARTIALLY DISINTERARTED DEBRIS, INSECTS OR ANY OTHER UNDESPRABLE MATERIAL, PLANTS OR SEEDS THAT WOULD BE TOXIC OF MARPHILL TO RECOVER!
- CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF PLANT MATERIAL QUANTITIES.
- QUANTITIES.

  IN THE EVENT OF VARIATION BETWEEN GUANTITIES SHOWN ON THE PLANT LIST MOT THE FLANS, THE PLANS SHALL CONTROL. IMPROPER PLANT COUNT MADE BY THE LANDSCAPE CONTRACTOR SHALL BE NO CAUSE FOR ADDITIONAL COSTS TO THE OWNER.

  THE CONTRACTOR SHALL MEET BOTH THE CONTRACTOR SHALL BY CAUSED THE CONTRACTOR SHALL MEET BOTH THE CONTRACTOR SHALL BY THE SHALL BY THE SHALL BY THE CONTRACTOR SHALL BY THE CONTRACTOR SHALL BY THE CONTRACTOR SHALL BY THE SH

- SPECIFIED.

  D. EXCANTE TWO TIMES SPEATER THAN THE ROOT BALL-DIAMETER OF THE SHRUB, TWO TIMES SPEATER THAN THE ROOT BALL FOR TREES. SCARRIVE SOUTHOUT OF PLANTS HIS TEBETORE IT PLANTS FLACENEY. OF PLANT SHALL BE PREPERBOUGHANT OF SPEATER.

  TO ANY, FLACENEY, OF PLANT SHALL BE PREPERBOUGHANT OF SPEATER.

  TO ANY, FLACENEY, OF PLANT SHALL BE PREPERBOUGHANT FOR SHALL BY THE PLANTS HE PLANTS HAVE CHARGED SHALL BY THE PLANTS HAVE CHARGED SHALL BY THE PLANTS HAVE CHARGED ANY PLANTS IS DONE IN THE ACT.

  BY HANT SUBSTITUTION WILL BE PRINTITED, REQUEST SUBSTITUTION IN PRINTS SHANK REASONS FOR SUCH SUBSTITUTION IN

- ANTIME SIGNED REASONS FOR SUCH SUBSTITUTIONS.

  1) TURE QUANTITY TAKE-OFF ARE THE RESPONSIBILITY OF THE CONTRACTOR.

  10). TREAT ALL PLANTING AREAS WITH AN APPLICATION OF SURPLAN.

  FOLLOW MANUFACTURER'S INSTRUCTIONS FOR APPLICATION.
- REMOVE ALL MIRE, STRING, WIRE BASKETS, BURLAP, CONTAINERS, ETC., FROM THE ROOTBALL OF PLANTS BEFORE BACKFILLING THE PLANTING HOLE.
- 12). SEEDED AREAS SHOULD BE MAINTAINED UNTIL A FULL GROWTH OF WILD GRASS OR SEEDED MATERIAL IS ACHIEVED.
- WARRANTY FOR THE PLANTING MATERIAL SHALL BE ONE YEAR FROM THE DATE OF ACCEPTANCE. (TREES, SHRUBS AND GROUNDCOVER).





MCNELIS CAPE ARCH





SERENO TRAIL
TS 17 AND 18 BLOCK 1 AND LOTS 35 AND 27. BLOCK 2
SERBOVALLEY ESTATES
EL PASO, TEXAS
AREA, 23,722.64 SO, FT. . 88 ACRES

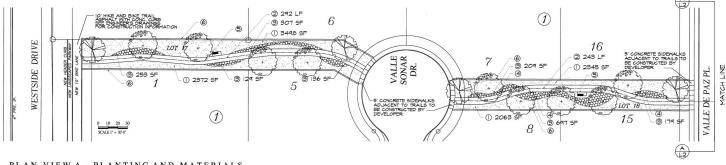
LOTS



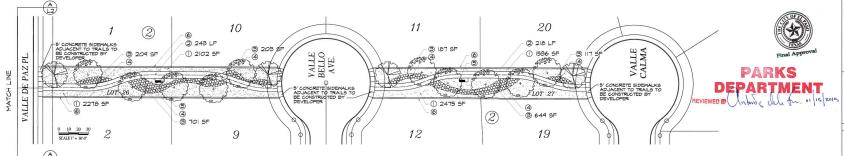
SHEET TITLE

PLANTING AND MATERIALS

SHEET 2 OF 14

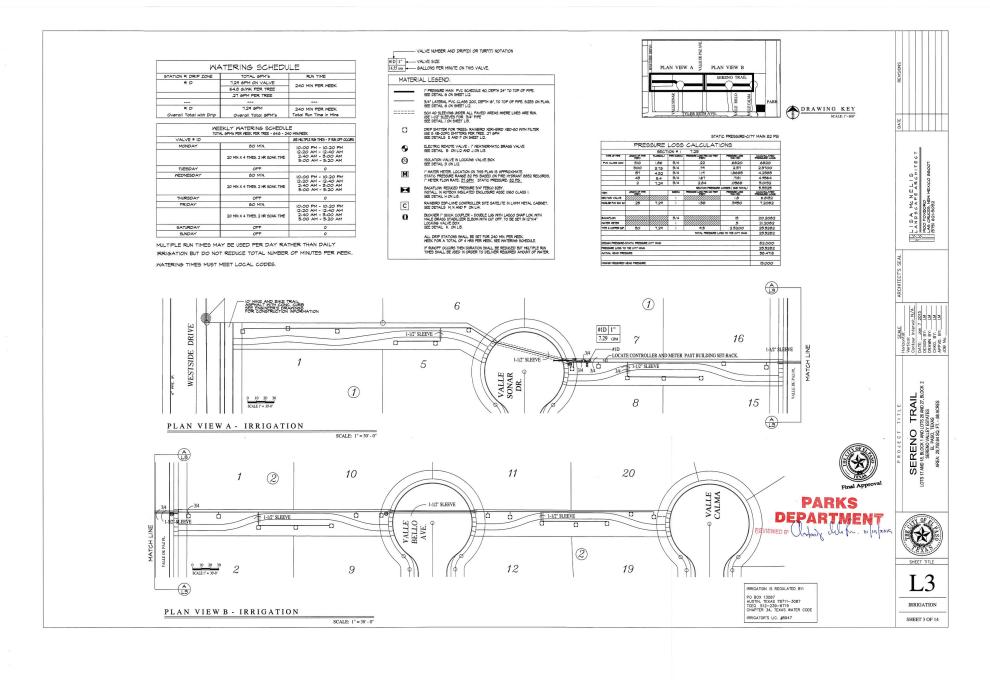


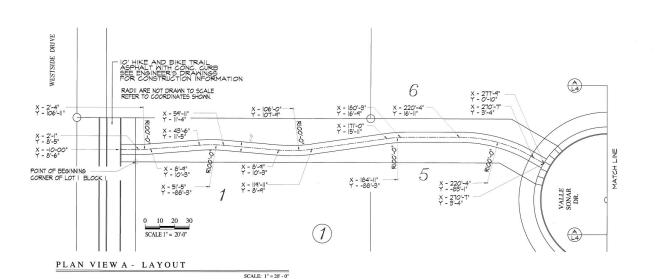
# PLAN VIEW A - PLANTING AND MATERIALS

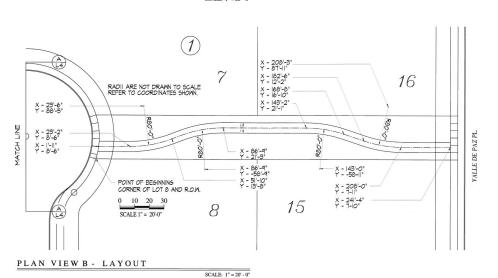


PLAN VIEW B - PLANTING AND MATERIALS

SCALE: 1" = 30' - 0"









**PARKS** DEPARTMENT









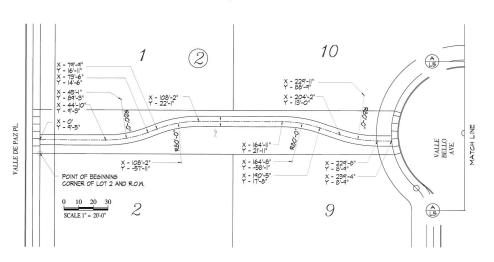
SERENO TRAIL
LOTS 17 MD 18, BLOCK 1 MD LOTS 2 MD 27, BLOCK 2
EL PAGO 1 TEMB EL PAGO 1 TEMB MES AREK: 20, 722 M S ARES





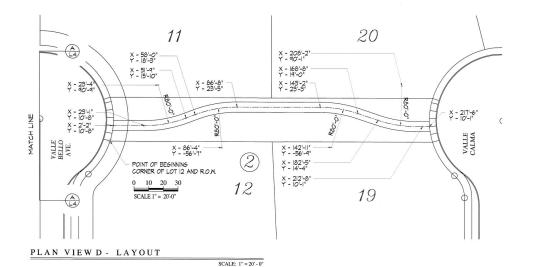


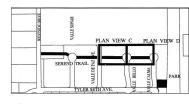
SHEET 4 OF 14



PLAN VIEW C - LAYOUT

SCALE: 1" = 20' - 0"











TRAIL
OTS 28 AND 27, BLOCK 2

SERENO LOTS 17 AND 18, BLOCK 1 AND LO

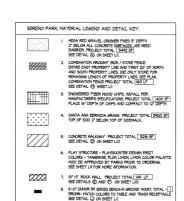




LAYOUT PLAN

SHEET 5 OF 14

REVIEWED BY lyforty culture of 15 2015



ADA ACCESSIBLE RAMP SEE DETAIL (6) AND (1) ON SHEET LII

6'-6' RECESSED AREA FOR MATER HARVESTING PARKS AND RECREATION REPRESENTATIVE MIST APPROVE

GRADING PRIOR TO INSTALLING SOD OR GRAVEL ACCESSIBLE PICNIC TABLE - PROJECT TOTAL 2 BROWN- MATCH COLORS TO BENCH AND TRASH RECEPTACLE SEE DETAIL ① ON SHEET LII.

TRASH RECEPTACLE - PROJECT TOTAL TOTAL TRASH
BROWN- MATCH COLORS TO BENCH AND TRASH
SEE DETAIL (1) ON SHEET LII.

PARK INFORMATION SIGN - LOCATION SHALL BE APPROVED BY PARKS DEPT REPRESENTATIVE.
 SEE DETAIL ® ON SHEET LII.

0

# PARKS DEPT. NOTES FOR PLANTING:

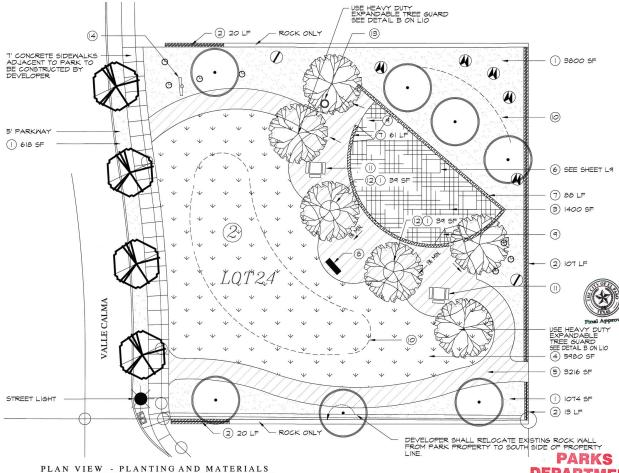
- TE SHALL BE THE CONTRACTOR'S RESPONSEDILITY TO PREVENT PLANTS FROM FALLING OR BRING BLOWN CAPE, AND IS TRACHSTEN OR REPLANT ALL PLANTS HACH ARE DAMAGED DIE TO HOLL PLANTS BLOWN OVER BY HIGH MINDS BHALL NOT BE A CASE FOR ADDITIONAL EXPENSE TO THE OWNER, BUT SHALL NOT BE A CASE FOR ADDITIONAL EXPENSE TO THE OWNER, BUT SHALL BE THE FINANCIAL RESPONSIBILITY OF CONTRACTOR.
- OF CONTRACTOR.

  J. TOPSOIL MATERIAL FOR PLANTING-SHALL BE FREE FROM HARD CLODS,
  STIFF CLAY, HARD PAN, STONES LARGER THAN I'N DIAMETER, NOXIOUS
  MEEDS AND PLANTS, SOOP, PARTIALLY DISINTEGRATED DEDRIS, INSECTS
  OR ANY OTHER NODES/RABILE MATERIAL. PLANTS OR SEEDS THAT WOULD
  BE TOXIC ON HARPFUL TO SKOWTH.
- CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF PLANT MATERIAL QUANTITIES.
- MANITERITO FENENTATION BETWEEN QUANTITIES SHOWN ON THE PLAYTE LOT NOT THE PLANS IN FET AND SHALL CONTROL IMPROPER FLANT COAT MADE BY THE LANDSCAPE CONTRACTOR SHALL BE NO CASE FOR ADDITIONAL COSTS TO THE OWNER, WITH STATE AND SHALL FREE SIZE AS PELL AS HEIGHT AND SPREAD SPECIFICATIONS SPECIFIES.
- EXCAVATE TWO TIMES GREATER THAN THE ROOT BALL-DIAMETER OF THE SHRUB, TWO TIMES GREATER THAN THE ROOT BALL FOR TREES. SCARIFY BOTTOM OF PLANTING PIT BEFORE PLACING PLANT, PLACEMENT OF PLANT SHALL BE PERPENDICULAR TO GROUND.
- PLANT INCIDENT AND THAN SHAPE PERFECTION OF PLANS PRETING CONTROL OF THAN PARTIES. SHAPE OF THE PROPERTY OF THE ATTEMPT OF THE
- TURF QUANTITY TAKE-OFF ARE THE RESPONSIBILITY OF THE CONTRACTOR
- IO). TREAT ALL PLANTING AREAS WITH AN APPLICATION OF SURFLAN. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR APPLICATION.
- REMOVE ALL WIRE, STRING, WIRE BASKETS, BURLAP, CONTAINERS, ETC., FROM THE ROOTBALL OF PLANTS BEFORE BACKFILLING THE PLANTING HOLE.
- SEEDED AREAS SHOULD BE MAINTAINED UNTIL A FULL GROWTH OF WILD GRASS OR SEEDED MATERIAL IS ACHIEVED.
- MARRANTY FOR THE PLANTING MATERIAL SHALL BE ONE YEAR FROM THE DATE OF ACCEPTANCE. (TREES, SHRUBS AND GROUNDCOVER).

#### QUANTITES ARE PROJECT TOTALS - VERIFYI PLANS TAKE PRECEDENCE CONT. SPACING QUANT. SIZE REMARKS LEUCOPHYLLUM FRUTESCENS GREENCLOUD HC GREENCLOUD TEXAS SAGE 5 GAL 10' 0C 5 18" HT 00 O CM DALLAS RED CREPE MYRTLE LAGERSTROEMA INDICA DALLAS RED 5 GAL 8' CC LANTANA CAMERA NEW GOLD' 5 GAL 9'OC T 6' HT CUT BACK MID FEB YL NEW GOLD' LANTANA C.DACTYLON X TRANSVAALENSIS SOD 4801 SF 0 LAY 500 50 THAT NO LINES ARE VISIBLE SANTA ANA' BERMUDA GRASS

TREE LEGEND/SCHEDULE PROJECT TOTAL										
5YM	KEY	COMMON NAME	BOTANICAL NAME	CONT.	SIZE	QUANT.	REMARKS			
₿	LET	LACEBARK ELM	ULMUS PARVIFOLIA	24°B0X	2" CAL-IO'HT-6" SPREAD	4	SINSLE-FULL			
0	CPT	CHINESE PISTACHE	FRAXINUS OXYCARPA	24°B0X	2" GALHO'HT-6" SPREAD	7	SINSLE TRUNK-PULL			
Ø	RAT	RAYMOOD ASH	FRAXINUS OXYGARPA	24°B0X	2" GAL-IO'HT-6" SPREAD	6	SINSLE TRUNK-FULL			





SCALE: 1" = 10' - 0"

SHEET TITLE L6

DEPARTMENT REVIEWED BY LATON LA M. 01 15 ZOIS

PLANTING AND MATERIALS SHEET 6 OF 14

ω± Ξ

MCNEL CAPE ARC

L | S A | L A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D S C | A N D

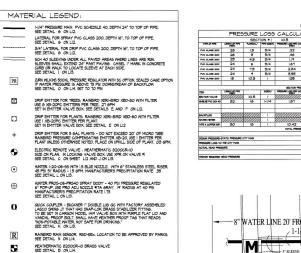
Interv DEC BY: \_\_\_\_ BY: \_\_\_\_

Horizonti Vertical: Contour DATE: DESIGN I DRAWN I CHKD. B APPVD.

ERENO PARK
LOT 25, BLOCK 2
SERENO VALLEY ESTATES
EL PASO, TEXAS
REA: 16,222 SOFT. 3778 ACRES

ERENO

 $\overline{S}$ 



TYPE OF PER	T I DOWN OF THE	SECT SOME	ION # I	PRESSURE LOSS FER ION FEET	PERSONAL LOSS	ACCIMI ATTO
	LINEIN OF FIFE				PRESSURE LOSS THIS ITEM	PRESSURE LOSS
NC GLASS 200	28	1.5	5/4	.22	.0616	.0616
NG GLASS 200	26	- 3	9/4	.46	.1146	.1812
VG GLASS 200	28	4.5	9/4	1.14	2797	.4549
VC GLASS 200	24	6	5/4	1.61	.4008	.0557
VC (LASS 200	24	7.5	5/4	2.84	.6816	1.5919
NG GLASS 200	24	9	9/4	9.58	.8472	2.9845
VG GLASS 200	18	10.5	-	1,55	.2740	2,6635
			_	SECTION PRESSURE L		2.6635
BH .	LEMIN OF FIFE		92000	PRESSURE LOSS FER 100 FEET	THIS LOSS	ACCIMILATED.
SCTION VALVE		105			1.6	4.4695
MUE PVC 90140	52	18	1-1/4	T6.I	2805	4.7440
CKPLON			1	<i>/////////////////////////////////////</i>	15	17.7440
TOTAL HETER			-	<i>/////////////////////////////////////</i>	1.5	19.5440
K COPPER SIP.	90	18		10.42	9.1260	22.6700
				TOTAL PRESSURE LOS	6 TO THE CITY HAIN	22.6100
NON PRESSURE	STATIC PRESSURE O	CITY HAN				82.000
ESSUPE LOSS TO	THE CITY HAIN					22.6700
THE HEAD PRE	16UPE					54,8800
NHH REQUEED	HEAD PRESSURE					45,000

											WATERING	, 9	iC+	Đ	DU	Æ				
STATION	Γ	COMBINATION									PER WEEK	Ι	M	Ą	K	RIN 'S	6	T	DURATION	CLOCK SETTING
	I	2	3	4	5	6	7	8	9	0		5	М	Т	m	ΉН	F	5		
IT	×	ı	ı	x		П		Ш	П		125 MN	П	x		×	П	×	П	125 MIN	12:00 At
2T	Г	x	Г	Г	Г	П		П	П	Ī	2IB MIN	T	x	Г	×	П	x	П	2l8 MIN	2:06 AM
3D	Г	Г	x	Г	Г	П		П	П	Ī	240 MIN	T	П	×	Г	x	П	x	240 MN	12:00 At
4T	х	Г	Г	x	Г	П	Ī	П	П	Ī	125 MN	T	x	Г	×	П	X	П	125 MIN	12:00 At
5T	Г	Г	Г	Г	x	П	Ī	П		ī	45 MN	Т	x	Г	×	П	x	П	45 MN	5:45
TOTAL	F	Į,	Ī	м		-	1	54	Υ.	OΕ	OPERATIO	Ń-	D	RII	P	_	_	۲	240 MN /	4 HOURS
TOTAL	R	N	TI	Æ	Pt	R	D	٩Y	OF	7	PERATION -	R4	OTO	R	5/	P	ξĀ	7	388 MN / 6	
TOTAL	. 6	ŪΝ	П	м	- 7	Ŧ	П	Æ	K	-	ROTORS/SE	77/	Ÿ				_	т	II24 MIV IE	.T3 HOURS

VALVE NUMBER AND DRIP(D) OR TURP(T) NOTATION #ID 1" --- VALVE SIZE 14.55 GPM - GALLONS PER MINUTE ON THIS VALVE.

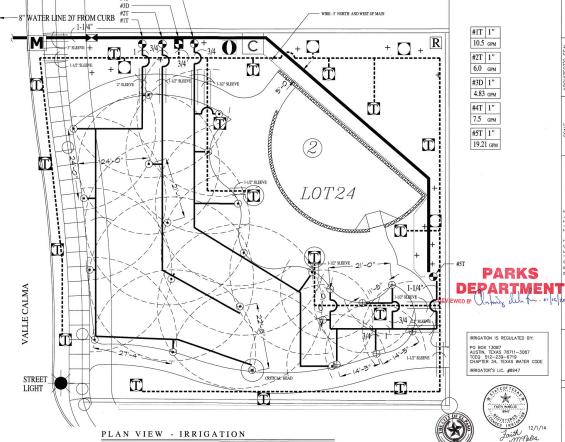
I. IRRIGATION PLAN IS DIAGRAPMATIC IN NATURE. CONTRACTOR SHALL BE RESPONSIBLE FOR ACCOMPLISHING FULL COVERAGE IN ALL AREAS WITH SPECIFIED BURPHENT. ANY DISCREPANCIES IN THE PLAN SHOULD BE BROUGHT TO THE PREJECT MANAGERS ANTIONION DURING CONSTRUCTION.

ALL FITTINGS AND NECESSARY EQUIPMENT REQUIRED TO MAKE THIS IRRIGATION SYSTEM OPERATE PROPER TO COMPLY WITH LOCAL AND STATE CODES ARE INCIDENTAL TO THESE PLANS AND ARE THE CONTRACTOR'S RESPONSIBILITY.

3. CONTRACTOR WILL BE HELD LIABLE FOR GAINING ACCESS UNDER ALL PAVEMENTS.

- 4. SLEEVES SHOWN ON THE PLANS SHOULD BE VERIFIED FOR ACCESSIBILITY AND FEASIBILITY BEFORE BID IS MADE. 5. THE CONTRACTOR SHALL LOCATE AND VERIFY EACH WATER TAP TO WHICH THE IRRIGATION SYSTEM MILL CONNECT. ALL EQUIPMENT AND INSTALLATION METHODS SHALL COMPLY WITH THE STANDARDS OF THE CITY OF EL PAGO AND THE SPECIFICATIONS
- 6. CONTRACTOR IS RESPONSIBLE FOR ALL CONNECTIONS AND VALVES REQUIRED FOR THE FILL IMPLEMENT OF THE SYSTEM.
- 1. THE CONTRACTOR SHALL LOCATE AND VERIFY THE EXISTENCE OF ALL UTILITIES PRIOR TO INITIATING WORK. 8. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGE OR INTERRIPTION IN SERVICE CAUGED BY HIS EXCAVATIONS AND/OR WORK.
- 4 EACH CONTROLLER WILL HAVE AN INDEPENDENT COMMON WIRE LOOPED TO THE VALVES CONFICTED TO IT. IO. REMOTE CONTROL VALVE WIRES ARE TO BE IN A SEPARATE TRENCH 5' FROM MAIN LINE ON NORTH OR WEST SIDE OF MAINLINE.
- II. ALL REMOTE CONTROL VALVE WIRES NEED TO BE LABELED AT VALVE MY MEATHER (MATER) PROOF LABELS AND AT CONTROLLER MITH CORRESPONDING LABEL (LETTER AND/OR NAMBER TAGG IN SEQUENTIAL ORDER MILL SE PROVIDED).
- 12. SPLICING OF REMOTE CONTROL, VALVE WIRES IS NOT ALLOWED BETWEEN CONTROLLER & VALVE BOX FOR WIRES MUST BE CONTROLLER FOR CONTROLLER TO REMOTE CONTROL. VALVE WITHOUT SPLICING.
- 13. ALL ROTOR SPRINKLER HEADS SHALL BE ON STAINLESS STEEL RISERS WITH CHECK VALVE. 14. CONTRACTOR SHALL PROVIDE SLEEVES FOR NEW IRRISATION LINES CROSSING UNDER CONCRETE SIDEMALKS. SLEEVES SHALL BE 2 TIMES THE PIPE SIZE EXTENDED 24" BEYOND EDGE OF SURFACE, BE WRAPPED WITH

MINIMUM 4 MIL PLASTIC AND TAPED WITH BM BRAND HEAVY DUTY PLASTIC.



SCALE: 1" = 10' - 0"

MCNELIS CAPE ARCH L A N D S G I A N D S G I A C PUCE (5.15) 621-3G



Horizont
Vertical:
Contour
DATE:
DESIGN
DRAWN
CCHKD. B
APPVD.

ERENO PARK

LOT 26, BLOCK 2
SERBOVALLEY ESTATES
EL PASO, TEXAS
REA: 16,222 SQ.FT. 3778 ACRES SERENO

SHEET TITLE

IRRIGATION

SHEET 7 OF 14

PRECIPITATION SCHEDULE VALVE VALVE TOTAL HINTER CALCULATED WATER NOZZIE & TYPE GPM PER RUN TIME SIZE OF HEADS HEAD FER MEEK I I' 105 35 INHR 5TT INHR 1.21/MEEK #15 T PART 15 125 MIN 6 .75 INHR .33 INHR 12"/MEEK #15 4 FULL 15 2l8 MIN 3 I' 4,89 DRIP N/A N/A N/A N/A N/A 240 MN 35 INHR 511 INHR 12"/WEEK #15 6 PART 15 5 I' 14.21 I.73 IN/HR I.53 IN/HR I.21/MEEK ITA ADJ 1 PRO ADJ VARIES 45 MIN

RAINBIRD ESP-125AT SATELLITE CONTROLLER IN LOCKING STRONGBOX STAINLESS STEEL UNIT SB-2465 WITH PEDESTAL SEE DETAILS M, N AND P ON LI4.

I" METER, LOCATION ON THIS PLAN IS APPROXIMATE. FLOW: 91 GPM - STATIC PRESSURE: 82 PSI

BACKFLOW: FEBCO REDUCED PRESSURE 825Y I\* SEE DETAIL H ON LIB.

TURF IRRIGATION SYSTEM DESIGN CRITERIA

# MATER SOURCE

M

 $\bowtie$ 

С

MATER MUST BE DELIVERED TO THE SITE AT SUFFICIENT PRESSURE AND FLOM TO PROVIDE MAXIMUM PERFORMANCE AS SHOWN BELOW.

PRESSURE REQUIREMENT - 82 PSI STATIC PRESSURE UPSTREAM OF METER AT FIELD LOCATION AND ELEVATION

- 40 PSI AT BASE OF SPRAY HEAD

MAX FLOW REQUIREMENT - H.2I 6PM MAXIMUM FLOW RATE

(DIFFERENCES IN AVAILABLE FLOW AND OR PRESSURE MILL REQUIRE DESIGN CHANGES) CONTRACTOR MUST VERIFY

2. PROPOSED I' WATER SERVICE LINE, PROPOSED I' WATER METER

# HEAD LAY-OUT

ROTOR HEAD LAY-OUT AND SPACING IS BASED ON TRANSLLAR LAYOUT, DIAMETER OF THE HATTER 1-20 ROTOR WITH HOUTLE FIELD 4 45 PG IS STYCKES = 28 HEAD SPACING X 266 FOR TRANSLLAR LAYOUT= 24 FOR LATERAL SPACING SALUSTED SPACING S 40 HOUT AT EDISES OF THIS AND CONCRETE EDISHIS IN SECRAL, PACK SES AS FOLLOWS.

HEAD SPACING = 28', LATERAL SPACING = 24'

SPRAY HEAD SPACING IS LOCATED ON AREA PERINETER. DIAMETER OF THE HANTER PROS-06 WITH WITH MOZILE WITA & 40 PSI IS WIZXLES IT HEAD SPACING REQUIRED SPACING IS SHOWN AT EDGES OF TUPF AND CONCRETE EDGING IN SPECIAL, HEAD SPACING IS NO FULLOWS.

HEAD SPACING = IT', LATERAL SPACING = I4'

HEAD AND LATERAL SPACING WILL VARY WITH DIMENSIONS OF TURF. ADJUSTED SPACINGS WILL BE NECESSARY. HEAD SHALL BE SET BACK FROM PAYING TO PREVENT SPRAY ONTO SIDEMALKS.

THE FOLLOWING PERFORMANCE STATISTICS WERE CALCULATED PER PLAN CHANGES IN OPERATING PRESSURE, HEAD SPACING, AND OR NOZZLE SELECTION WILL EFFECT RESULTS.

RIN TIME FOR 12" OF MATER - 180 ROTOR=125 MINITES PER STATION PER MEEK.
RIN TIME FOR 12" OF MATER - 960 ROTOR IZMES, 210 MINITES PER STATION PER MEEK.
RIN TIME FOR 12" OF MATER - POP (IP ZOMES, 45 MIN, PER MEEK.

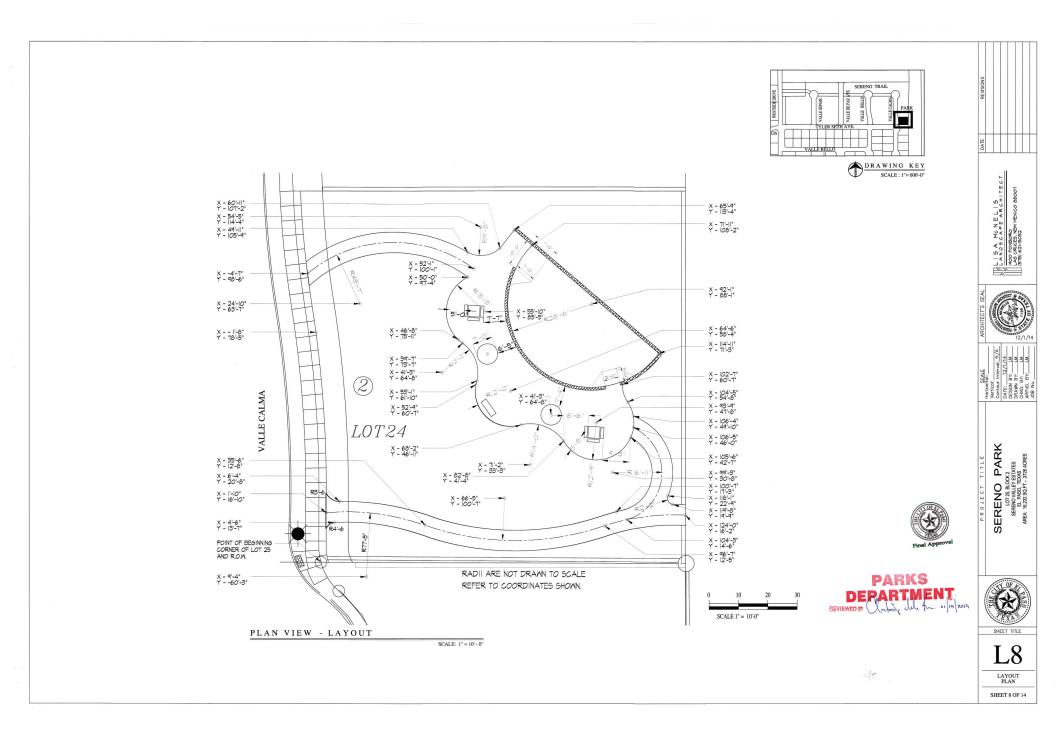
VALVES BLAND \$4

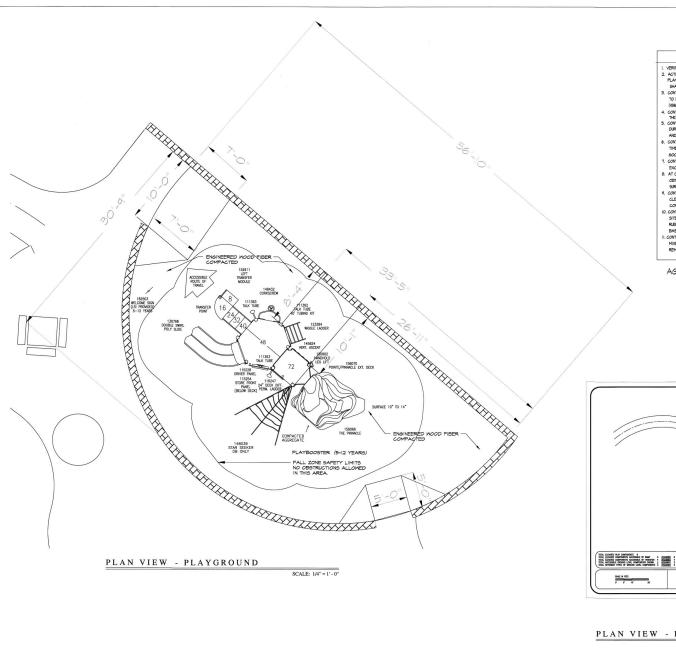
15 X 46.25 (24 X 24)X.866 = 144 = 288 X 2 = 5TT 'HR PART HEADS

VALVE #2

 $\frac{15 \times 46.25}{(21 \times 24) \times 866} = \frac{144}{436.5} = 93 \text{ '/HR FULL HEADS}$ 

VALVE #5 POP UP SPRAY - TOTAL AREA METHOD |4.2| X 46.25 | |848.46 | |54 \*/HR





PLAYGROUND EQUIPMENT NOTES:

VERIFY LOCATION AND DIMENSIONS OF PLAYGROUND EQUIPMENT BEFORE FINAL INSTALLATION.

2. ACTUAL CONDITIONS IN THE FIELD MAY REQUIRE ADDING OR ADJUSTING COMPONENTS OF THE PLAYGROUND EQUIPMENT TO MEET ALL CPSC, ASTM AND ADAAG REQUIREMENTS, ALL CHANGES SHALL BE REVIEWED AND ACCEPTED BY PARKS STAFF PRIOR TO THEIR EXECUTION.

SINCLE BEREVIEW A ACCEPTED BY PARKS STAFF FROM TO THER EXECUTION.

CONTRACTOR SHALL MEET ALL PAPLCABLE AD AN OFF DEGUIER BERTS FOR ACCESS TO PLAYSROUND

TO INCLIDE CONCRETE SIDEMALKS. THE CONTRACTOR IS RESPONSIBLE TO INSURE THAT RUNNING SLOPE

(586), CROSS-SECTION (1386) AND FINISHED SURFACE TEXTURE COMPLY WITH ACCESSIBILITY REQUIREMENTS.

(OR), OCCOPREDITION 10339 AND PROBLEM PAIL ZOLE AS NOTED ON THE DESCRIPTION PROGRESSION OF THE EDGE OF THE SURPRISH PROVINCE AS NIMMAN FALL ZOLE AS NOTED ON THE DESCRIPTION FOR THE EDGE OF THE SURPRISH TO THE INNER FACE OF THE CONTAINMENT ROCKIONAL. CONTRACTOR IS REPORTED BY THE CONTRACTOR AND A SET THE CONTRACTOR THE DIRECTOR THE CONTRACTION PROJECT. FENCE IS REQUIRED TO BE MINIMAN OF 6 FEET HIGH AND MAINTAINED IN A STABLE AND SECURE CONDITION.

CONTRACTOR SHALL PROTECT ALL CONCRETE NORK TO AVOID VANDALISM OR DAMAGE DURING CURING TIME, ANY DAMAGE DONE TO THE CONCRETE DUE TO VANDALISM DAMAGE MUST BE RESTORED TO 600D FINISHED QUALITY APPERANCE.

SOCIO PIROPED MUNITI APPENANCE.

1. CONTRACTOR SHALL BE RESPONSIBILE TO HAVE ANY VESETATION TREATED AND REMOVED PRIOR TO THE EXCAVATION OF THE SITE FOR THE PLAYREQUIAD EQUIPMENT, CONTAINENT RECONNALL AND SIDEMALK.

2. AT COPPLETION OF PROJECT INSTALLATION CONTRACTOR SHALL PROVIDE MANIFACTIORS CRETTIFICATION AND

OBTAIN AN INDEPENDENT ASSIGN TO PROVIDE A SAFETY AUDIT OF PLAYSROUND EQUIPMENT AND PLAY SURFACE.

4 CONTRACTOR IS RESPONSIBLE TO MAINTAIN SITE OF FAN AND ERFE OF CONSTRUCTION DEPRIS DAILY CLEAN-UP OF SITE ML. BE REQUIRED TO BE PROVIDED BY CONTRACTOR, NO STOCK PILLING OF CONSTRUCTION DEBRIS WILL BE PERMITTED ON SITE.

IO. CONTRACTOR IS RESPONSIBLE TO INSURE THAT CONSTRUCTION EQUIPMENT WILL NOT BE CLEANED AT THE SITE UNLESS PROPER CONTAINERS ARE PROVIDED TO STORE MASTE. THIS INCLUDES MORTAR, CONCRETE, RUBBERIZED RESILIENT SURFACING, ETC.; WASTE MATERIAL MUST BE REMOVED FROM SITE ON A DAILY

CONTRACTOR IS RESPONSIBLE TO INSURE THAT ANY CONSTRUCTION MASONRY MATERIALS THAT ARE HAND MIXED AT JOB SITE ARE DONE IN AN APPROPRIATE CONTAINER AND ANY SPILLAGE IS CLEANED AND REMOVED IMMEDIATELY.

AGE APPROPRIATE SIGNAGE MUST BE INCLUDED.







-1000

odere bi

PLAYGROUND EQUIPMENT

NO SCALE

**PARKS** DEPARTMENT



SERENO PARK
LOTS BOOK2
SRENOWLETESTATES
EL PASO, TEMS
AREA: 16,222 SQ.FT.- 3778 ACRES

SHEET 9 OF 14

Sereno Park Playground El Paso, TX

STAKING IS NOT REQUIRED BUT IF DEEMED NECESSARY THE STAKING DETAIL SHALL BE FOLLOWED. STAKING IS AT THE DISCRETION OF THE CONTRACTOR, LANDSCAPE ARCHITECT AND PARKS DEPT. BUT SHOULD TREES REQUIRE STAKING THE CONTRACTOR SHALL INCLIDE THE COST OF THE STAKING IN THE COST OF THE TREE.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE STAKES AT END OF THE GUARANTEE PERIOD AT NO COST TO THE OWNER.

TREES THAT ARE DAMAGED DIE TO IMPROPER OR LACK OF STAKING MIST BE REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER.

WRES SHALL NOT BE TAUT BUT SHOULD ALLOW MOVEMENT OF 5 - IO DESREES FROM VERTICAL.

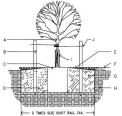
STAKES SHALL NOT BE DRIVEN INTO ROOTBALL OF TREES.



- 2 STRAND TWIST
   4 GUAGE WIRE
- 2. 1/2" RUBBER HOSE
- ROOTBALL
- A TYPICAL TREE GUYING DETAIL PLAN VIEW NOT TO SCALE

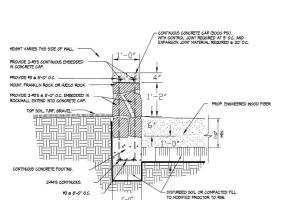
- LINDSTREED SOLL

  BE EPHANDABLE TIME SUARDS TO PROTECT TIMES
  FLANTID IN LAWN AREAS,
  SUARDS MIST DE APPROVED BY THE PARKS DEPT.
  TIES TO STACES TO HAVE RUBBER HOSE
  TO PROTECT TIME TIMEN FROM DAMAGE
  BY MIRE MIRE TIES TO BE LOOSE TO
  PROTECT TIME TIMEN FROM DAMAGE
  MIRE TIES TO BE SET ON SAME TIMEN
  KOR MAIN TRUNK
  KOR MAIN TRUNK



- TREE
  STAKING NEEDED
  STAKING NEEDED
  AF SPACE BETWEEN MULCH AND TREE
  SLOPE ON SIDES OF PLANTING HOLE
  DETH OF BARK MULCH-SEE PLAN
  FINISH SOIL GRADE
  BACKFILL HITH EUSTING NATIVE SOIL
  UNDISTURBED SOIL

- TREE PLANTING DETAIL SECTION NOT TO SCALE

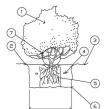


# ROCKWALL NOTES:

- NUMERICAL TRUE THE STATE OF THE
- STONE SHALL BE CLEANED, FREE OF DIRT PRIOR TO INSTALLATION.
- 5. NO RIVER ROCK SHALL BE ALLOWED FOR ROCKWALLS
- PLAYGROUND ROCK WALL ADJACENT TO GRAVEL AREA SECTION NOT TO SCALE



- REMOVE CONTAINER AND GUT ANY ROOTS THAT ARE GIRCLING THE CONTAINER. PRIOR TO SETTING TREE IN PLANTING HOLE (PIT).
- 5. AT TIME OF PLANTING, OILY PRINE CO-DOMINANT LEADERS (DOES NOT APPLY TO MULTI-TRUNK SPECIMENS), CROSSOVER LIMBS, AND DEAD OR BROKEN BRANCHES.
- DO NOT ALLOW MULCH IN CONTACT WITH TIREE TRUNK, KEEP AT LEAST 4\* AWAY FROM TRUNK.
- 8. WHEN DONE, THOUROUGHLY WATER TO ELIMINATE AIR POCKETS.



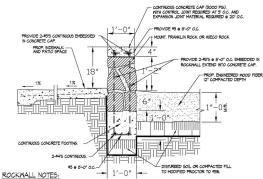
# LEGEND

- I. SHRUB OR VINE PER PLAN

  2. EARTH WATERING BASIN (COVER WITH
- SPECIFIED MULCH ON PLAN).
- 3. FINISH GRADE
- 4. 1 GRAM PLANT TABLETS | GAL = 8, 5 GAL = 6, IO-15 GAL = 9
- ROOTBALL (SET CROWN FLUSH WITH FINISH GRADE) COVER 2' SPECIFIED MLCH.
- 6. UNDISTURBED NATIVE SOIL
- 1. DO NOT BURY PLANT BASE IN GRAVEL

STONES 2" OR LARGER

SHRUB PLANTING DETAIL - SECTION



I. STONE FOR ROCKMALL SHALL BE AS NEARLY UNIFORM IN SECTION AS IS PRACTICABLETHE STONE SHALL BE DINNE AND RESISTANT TO AIR AND RATER.

2. MORTAR SHALL BE TYPE "S" ISOO P.S.I. AS PER ASTM C2TO-TB. MORTAR SHALL CONDIST BY COULDE OF I PRAT FORTLAND CEMENT,

- 3 1/2 PARTS OF CLEAN, HARD, DURABLE SAND AND 1/4 PART (MORTAR) LIME THOROUGHLY MIXED WITH WATER 3. ROCKMALL MORTAR JOINTS SHALL NOT EXCEED 3/4" TO 1 1/4".
- STONE SHALL BE CLEANED, FREE OF DIRT PRIOR TO INSTALLATION. NO RIVER ROCK SHALL BE ALLOWED FOR ROCKWALLS.
   ROCKWALL TO BE EMBEDDED IN THE CONCRETE FOOTING

NOT TO SCALE



PLAYGROUND ROCK WALL ADJACENT TO CONCRETE - SECTION

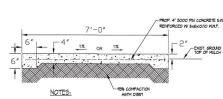


NO VALLEY ESTATES OF TRAIL AND SERENO PARK DISTRIBUTED OF TRAIL AND SERENO PARK DISTRIBUTED OF TRAIL TRAIL AND TRAIL TRA SERENC SERENO LOTS IT A

Horizonda's
Vertical:
Vertical:
Contour interval
DATE: 12/1/1/
DESIGN BY:
CHKD. BY:
CHKD. BY:
ADB No.

CONSTRUCTION DETAILS

SHEET 10 OF 14



- I. COKARITE BHALL BE 3000 PSI MINIMA.
  2. COMROD, JOHN ROUDER AT 9 COL FOR SIDDINALIS.
  5. BEPANSION JOHN MATERIAL REQUIRED 9 20' COL FOR
  5. DONOT CROSS REINFORCEDENT THRU EPANSION MATERIAL.
  5. PROVIDE DEPANSION JOHN MATERIAL HERE'S SIDDINALIS.
  WELL ELSTINAS SIDDINALIS AND CARBO.
- (D) TRAIL AND I TRAIL AND PARK CONCRETE SIDEWALK DETAIL - SECTION

- 2 TIMES SIZE ROOT BALL DIA.

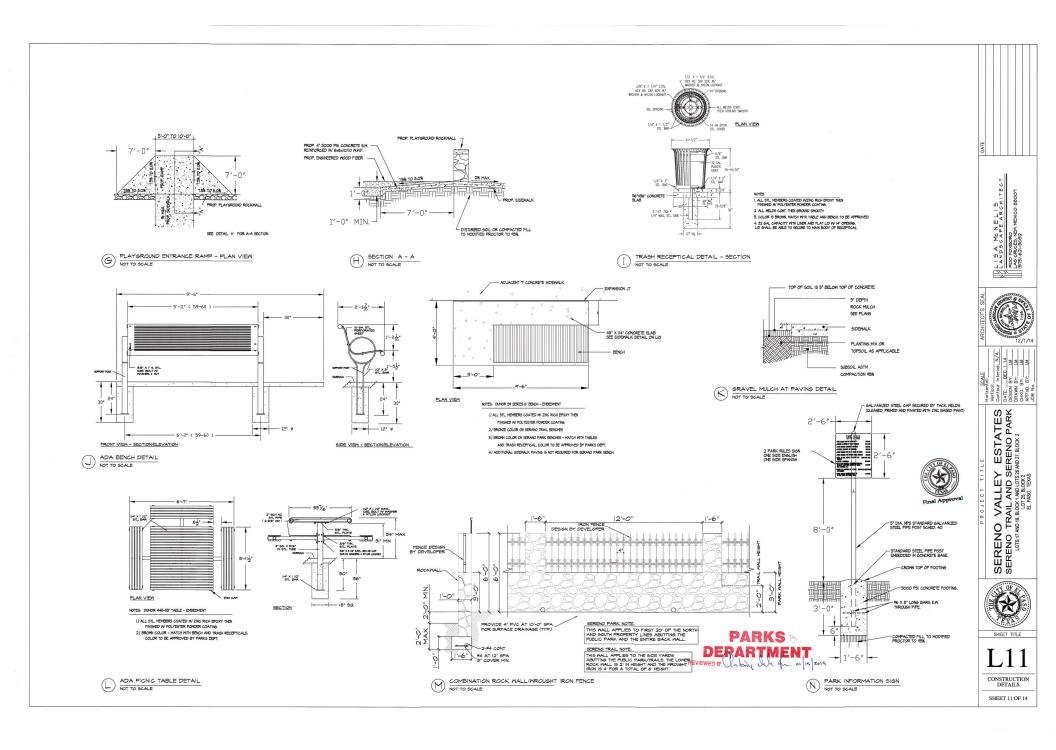
 REMOVE ANY EXCESS SOIL FROM TOP OF ROOTBALL TO EXPOSE ROOT FLARE (N-ERE TOP MOST ROOT EMERGES FROM THE TRUNK). PLANT WITH ROOT FLARE THAN FINISH SRADE I"-2" HISHER. 4. TAMP SOIL FIRMLY AROUND BASE OF ROOTBALL WITH FOOT PRESSURE,

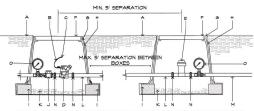
9. STAKING IS NOT REQUIRED - STAKE TIRES ONLY IF TIREE CANNOT STAND ALONE AND NITH APPROVAL OF THE LANDSCAPE ARCHITECT, CONTRACTOR SHALL NOT STAKE ALL TIREES, INDISCRIMINANTELY, APPROVAL MIST BE OBTAINED TO STAKE TIREES.

IO. WITH APPROVAL, PROVIDE MIN. 3 STAKES/ TREE (TYP.) IN A TRIANGULAR
PATTERN, STAKED INTO UNDISTURBED SOIL MITH CLARK'S TREE STAKE KIT OR
APPROVED EQUAL, REMOVE AFTER ONE GROWING SEASON.

II. TOP OF ROOT BALL SHALL BE LEVEL WITH TOP OF MULCH OR BARK, MULCH SHALL BE FEATHERED TO FULL DEPTH.

2 TIMES SIZE ROOT BALL DI SHRUB PLA





NOTE: PROVIDE I PRESSIVE SAIGE ON MAIN LINE UPSTREAM OF BALL VALVE AND ANOTHER DOMONTHAM OF BASKET BILLER PROVIDE S SEPARATION BETWEEN BOXES, IF SPACE IS NOT AVAILABLE, PROVIDE A NIN 5' SEPARATION AT CENTER LINES OF BOXES, SET SAGES NORIZONTAL TO BE REZABABLE FROM ABOVE.

A FINISH GRAZE .

3. 24 YINGE LOOP .

5. 24 YINGE LOOP .

6. 24 YINGE LOOP .

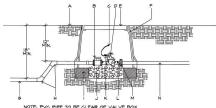
7. 24 YINGE LOOP .

7. 24 YINGE LOOP .

7. 24 YINGE LOOP .

8. 24 YI

DRIP VALVE W BASKET FILTER NOT TO SCALE



NOTE: PVC PIPE TO BE CLEAR OF VALVE BOX AND SOLID CMU BLOCK.

USE XPR PRESSURE REGULATOR

SE NEW PREDSIDE NODOWNING.

SE NAME SAME

3. BIALL VALVE

3. BIALL VALVE

4. DET SELLE CONDECTOR OR EQUAL.

D. ELECTRIC VALVE - SEE IRRIGATION LESPING BOX WITH BOLT DOWN

FLAT LID COVERT TO MATCH COLOR OF PRINSHED MATERIAL AND 0'

ENTENSIONS AS NECESSARY.

1. PROVIDE DOWN'T FOR SHOP ALONG SIDES AND BASE OF VALVE.

PROVIDE DOWN'T HOS DEATH ALONG SIDES AND BASE OF VALVE.

FOR MAINLE-SEE RICHARD ALONG THE ADO VILLET FIFE AND VALVE BOX WITH HEAVY DUTY PLASTIC 3M TAPE.

FOR MAINLE-SEE RICHARD LESPING.

1. 0' DOWN'S SOLID CAU BLOCK 8 EACH CORNER.

1. 4" DETRIN 3D' DIAMETE HARBOUT PLASTIC STAVE.

1. 5" DOWN'S SOLID CAU BLOCK 8 EACH CORNER.

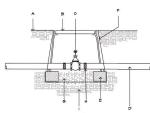
1. SCHEDLE DO PIVE CLOSE NIFFE.

1. SCHEDLE DO PIVE CLOSE NIFFE.

M. FLANSE (D' AND ABOVE) AND WINON (BELOW 3" FIFE SIZE)

N. LATERAL LINE.

IRRIGATION CONTROL VALVE (0) NOT TO SCALE



THIS DETAIL SHALL TAKE PRECEDENCE TO ANY OTHER DETAIL SHOWING VALVE BOX INSTALLATION.

ATXATXIAT CMI SOLID CONCRETE BLOCK & EACH CORNER

NOTE: BLOCKS TO SIT ON MEED CLOTH ON UNDISTURBED SOILS SHALL BE COMPACTED WITH SOILS SHALL BE COMPACTED WITH VALVE BOX AND EXTENSIONS TO SIT ON BLOCKS, VALVE BOX AND EXTENSIONS TO HAVE A MINIMUM 2" CLEARANCE TO THE TOP OF PVC FIFE.

BLOCK PLACEMENT ON VALVE BOXES

NOT TO SCALE

NOTE: PVC PIPE TO BE CLEAR OF VALVE BOX AND SOLID CMU BLOCK.

A. FINISH GRADE.

B. CARSON PRODUCTS INC, I4IH-IB/ABS) VALVE BOX NITH
BOLT DOTN LAT. LLD COMEN TO MATCHESCOR OF FINISH

CO. BRASS IBCLATION VALVE- TO BE APPROVED BY PARKS AND REC.

D. IRRISATION MAINLINE.

E. BY & PINISH SOLID CHU SOLID BLOCK & BACH CORNER.

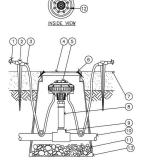
FROUVIDE DEUTIT PRO S PECED CLOTH ALONS 6 BIDES AND
BASE OF VALVE BOX INSTALLATION. TAPE TO ALL INLET
AND AND THE CONTROL OF THE CONTROL PROPURED.

G. 4'DEPTH, 30'S WASHED PEA GRAVEL.

F. LANGE S' AND ABOVEJ NO MION (BELON 3' PIPE SIZE)

FLANGE (B" AND ABOVE) AND UNION (BELOW 3" PIPE SIZE) I. EXISTING SOIL

ISOLATION VALVE NOT TO SCALE



(5)

DIFFLIER BUG CAP:
RAN BIRD DEC-025
(10 P2 SHOWN, B POSSIBLE).

(2) INVERSAL AT TUBING STAKE.
RAN BIRD TS-025
(A) P2 SHOWN, B POSSIBLE).
(3) I/4" DISTRIBUTION TUBING.
RAN BIRD XG TUBING (LENSTH AS REQUIRED)

(LINGTH AS REQUIRED)
() OF 2 SHOWN, & POSSIBLE),
(4) SUBTERRALEAN BHITTER BOX,
SUBTERRALEAN BHITTER BOX,
TARF AREAS AND TAN IN ROCK
LANDSCAPE AREAS),
(5) MLTH-0-CUTLET BMSGION DEVICE.
RAIN BIBD XERL-BIRD XD-0-0.
(6) NSTALL 2 46, 2\* LONG SELF TAPING
BOSTALL 2 46, 2\* LONG SELF TAPING
TINSH GRADE.

(8) PVC SCH 80 THREADED NIPPLE LENGTH AS NEEDED.

(9) PVC SCH 40 TEE OR ELL.

(10) PVC LATERAL PIPE.

3" MINIMUM DEPTH OF 3/4" WASHED PEA GRAVEL.

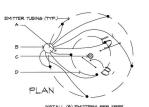
3/4" WASHED PEA GRAVEL.

12 SINSLE-OUTLET BARB INLET X
BARB CUTLET BHTTER. RAIN
BIRD XERI-BUS ENITTER.

13 WEED BARRIER TAPED TO ENITTER
BOX AND PIPE PENETRATION, TAPE

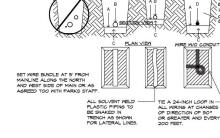
XB-OSPC 0.5 SPH XB-IOPC I.0 SPH XB-20PC 2.0 SPH

DRIP EMITTER FOR TREES AND PLANTS RAIN BIRD XERI-BIRD 8 MULTI OUTLET EMISSION DEVICE NOT TO SCALE



INSTALL (6) EMITTERS PER TREE, SPACE EVENLY AROUND ROOTBALL, IN OFFSET TRIANGULAR PATTERN FOR TREES, SEE IRRIGATION LEGEND FOR OUTLET EMITTER SIZE.

EMITTER PLACEMENT FOR TREES NOT TO SCALE



MAINLINE, LATERAL AND WIRING SHALL NOT BE PLACED IN THE SAME TRENC

NOTES: A BOTTOM OF EXAMATE: TRENCH WERE NONE.

B. IRRIGATION 50'S EAS ERPORTED INC. CHITERED.)

B. IRRIGATION 57'STIM FIFTHS

C. MINIMA 4") PEPP BEDDING SANDY SOLIS MATERIAL
METER ROCKY SOLIS ARE ENFOSED.

D. IRRIGATION 57'STIM YALL WINNING THAT IN SOLIS

FIT IT IS FREE OF CALICHE OR STONES LARGES

THAN IT IS SIZE AND ORGANIC MATTER OR NAST

EAST TO SEN DENSITY BY AST MINIMATED FOR THAT OR THAT THE OR TO SEN TO SEN DENSITY BY AST MINIMATED.



WIRING IN CONDUIT IS' TO TOP OF WIRE BUNDLE

PIPE 12" MIN. 18" MAX.



DEPARTMENT BEVIEWED BY Infonty delle for 01/15/2015

RRIGATION IS REGULATED BY: PO BOX 13087 AUSTIN, TEXAS 78711-3087 TCEQ 512-239-6719 CHAPTER 34, TEXAS WATER CODE IRRIGATOR'S LIC. #8947



12/1/14

ທູ MCNEL I L A N D S C L A N D S C I A OO FOXE LAS CRUCE (575) 621-3C 

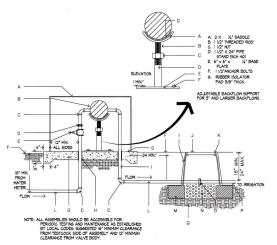


Horizonty Vertical: Contour DATE: DESIGN DRAWN CHKD. E

SERENO VALLEY ESTATES
SERENO TRAIL AND SERENO PARK
LOTS 17 AND 18, BLOCK 1, MOLDINS 28, MOZT, BLOCK 2
LOTS 17 AND 18, BLOCK 1, MOLDINS 28, MOZT, BLOCK 2
LOTS 17 AND 18, BLOCK 2
LOTS 17 AND 18, BLOCK 2
LOTS 17 AND 18, BLOCK 2

IRRIGATION DETAILS

SHEET 12 OF 14



REDUCED PRESSURE ASSEMBLY BACKFLOW

NOT TO SCALE

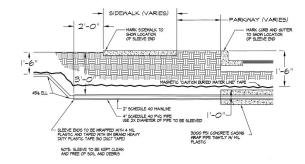
- A STANLEGG STELL INSULATED HOT BOX BYCLOSINE R-VALVE R-25 IEEE RIGHATION LEGIBO) AGG (100-CL/CH) 1 PROCEED RESIDENCY BYCLOSINE RESIDENCY BY ABOVE SRADE, INSULATION BRANCE BALL VALVE

- D. COTTEN MON, 4" ADDIT GRADE.
  E PRAGE BALL VANEE
  F. FINGH GRADE.
  F. FINGH GRADE.
  G. 4000 FIS COCKETE FAD, 4" DEPTH
  SECRET STO DEARN THROUGH CONC.
  FAD WITH SOL 400 FIS COCKET THROUGH CONC.
  FAD WITH SOL 400 FING SER DEPTH
  SOLS AND SHEED CLUTH ALLOHS
  SIDES AND SHEED CLUTH ALLOHS
  SIDES AND SHEED OF VANEE BOX.
  WITH HEAVY DUTY PLASTIC TAPE
  HAMPACKED DY SH.
  J. HIS BOLT DOWN TLAT LID COVER (ASS).
  E. BODT (ASS) VANEE SOL (OR
  APPROVIDE DISJUN), DETURBING AS
  HEEDED.
- NEEDED.

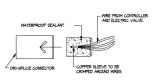
  TYPE K COPPER PIPING.

  8 Y 8 X 16 SOLID CMU SOLID
- BLOCK
  N. 5/6\* WASHED PEA GRAVEL, 4\*
  DEPTH.
  O. FLANSE.
  P. PVC MAIN LINE.
  G. UNDISTURBED OR COMPACTED SOILS.

- INSTALL AN 8" X 8" X 16" SOLID CMU BLOCK AT EACH CORNER OF THE VALVE BOX.
  ISULATE (R-25 MIN.) FROM FREEZING
  MUST COMPLY WITH ASSE (OGO-CLASS).
  PROVIDE 2\* CLEARANCE DETWEEN VALVE
  BOXES AND PVC OR COPPER PIPING.

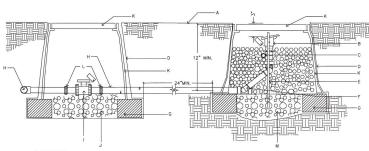


STREET CROSSING SLEEVE DETAIL NOT TO SCALE



THREE STEP OPERATION DRI-SPLICE CONNECTOR ONLY. FILL WITH SEALANT SUFFICIENT TO SEAP WHEN ASSEMBLED.

WIRE CONNECTORS NOT TO SCALE



- A FINSH SACK.

  B. I BOXNER GUCK COLERN WAS SOURCE LIS WITH LASCO SWA-LOK

  B. I BOXNER GUCK COLERN WAS SOURCE LIS WITH LASCO SWA-LOK

  ONLI I'S SECTION IN PLAN FOR SECTIONS SHOULD EXTEND BETONE BOTH REBAR
  SECTION STABLIET IN SHAVEL.

  FROM JOHN BOXNER FINS ON SECTION SHOULD EXTEND BETONE BOTH REBAR
  SECTION STABLIET IN SHAVEL.

  LI (2 CAS SIV REBARA, WIN, SO'LENSIN, GO OLD SINER SIDE OF GUCK COLUMN.)

  FOR STABLIET IN STABLE AND SOURCE SOURCE SOURCE OF GUCK COLUMN.

- E. UZ OR SIG TERMA NIN SO'LDISHI, ORE ON ETHER SIDE OF GIGA. CUPILIS.

  FOR STABLET,

  F. LACCO SHINE JOHN FRE-ASCENDELDY.

  F. LACCO SHINE JOHN FRE-ASCENDELDY.

  F. LACCO SHINE JOHN FROM BLOCK.

  I. BOLATION BALL YALVE SEE REGISTION LESSION.

  L. BOLATION BALL YALVE SEE REGISTION LESSION.

  CANADIA SHELL YALVE SEE REGISTION LESSION.

  COVER CACURA NO BOX TO BE FRENCE CACUR.

  L. ROVICE FROM BOXING THE SEE SIDE SHAM TREET MARES IN DIAMETER OR PROVIDE.

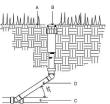
  ROVICE FROM THE SIDE SHAM THE SIDE SHAM THE MARES IN DIAMETER OR PROVIDE.

  M. SID MARED FROM SHAME INCLUDE TO GIGAL COURSE WAS SHAME.

  M. SID MARED FROM SHAME THE STABLE SHAME SHAME TO SHAME SHAME SHAME TO SHAME 
NOTE: INSTALL AN 8" X 8" X 16" SOLID CMJ BLOCK AT EACH CORNER OF THE VALVE BOX.
INSTALL 316" FEA GRAVEL BELOW THE IN4-16" VALVE BOX INTI BOJT DOWN COVER.
ENTRIOP FEA GRAVEL IP TO COLLAR OF GLICK COUPER VALVE. INSTALL A TEE FLANSE

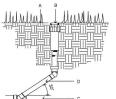
& BALL VALVE OFF OF THE MAIN LINE IN-MEDIATELY LIPSTREAM OF THE GLICK COUPLER
VALVE.

K QUICK COUPLER VALVE



THS DETAIL SHALL BE USED FOR POP-UP SHRUB SPRAY, POP-UP LAWS SPRAY, SEAR DRIVEN AND ROTARY SPRINLER HEAD SHALL BE SET FLUSH NITH FINEH SRADE. SINT INSTALLATION TO COMPLY WITH MANUFACTURENS SPRISS JOINT SPRISS JOINT SPRISS JOINT SPRISS S

HUNTER 1-20 ROTOR HEAD NOT TO SCALE



PARKS DEPARTMENT

REVIEWED BY WHOMY WILL ON 15 72015

IRRIGATION IS REGULATED BY:

IRRIGATOR'S LIC. #8947

PO BOX 13087 AUSTIN, TEXAS 78711-3087 TCEQ 512-239-6719 CHAPTER 34, TEXAS WATER CODE



FAITH MEMELIS 8947

Foith moreles

SHEET TITLE IRRIGATION DETAILS SHEET 13 OF 14



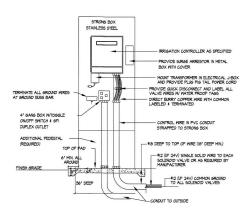
MCNEL S CAPE ARCH L S A C LANDSC INDSC IND



Interva BY: \_\_\_\_ BY: \_\_\_ BY: \_\_\_ Horizoniti
Vertical:
Contour
DATE:
DESIGN E
DRAWN E
CHKD. B
APPVD. I

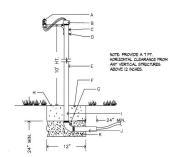
SERENO VALLEY ESTATES
SERENO TRAIL AND SERENO PARK
LOTS 17 AND 16 BLOCK 1 AND LOTS 28 AND 27 BLOCK 2
EL PROS. TENS





I. GROUND CABINET WITH #10 GAUGE OR HEAVIER STRANDED COPPER WRE TO SKONDING ROD & PERVISE STRAIGHT CONTROLL COPPER
WRE TO SKONDING ROD & PER MANEACTHERS SPECIFICATIONS,
2. PEDESTAL BKLOSURE TO BE SIZED TO HOUSE EQUIPMENT PROPERLY.
S. PEDESTAL BKLOSURE TO BE ANCHORED TO CONCRETE PAD PER
MANIFACTURERS SPECIFICATIONS

CONTROLLER IN PEDESTAL ENGLOSURE DETAIL NOT TO SCALE



A RAN BIRD RED-ES, RAN SENCEL SET TO 18"

3. 4" FIFE CAP WITH HOLD FOR WIRES AND SEAL WITH ENTEROR GRADE
SILCOSE SEALANT.

C. DRILL THO SIME IN LINES IN PIPE FOR SENCES BRACKET.

C. DRILL THO SIME IN LINES IN PIPE FOR SENCE AND RESERVED.

C. DRILL TO SEAL AND AND THE FOR SENCE AND RESERVED.

F. DRILL TO SEAL AND AND THE FOR SENCE AND RESERVED.

F. PIPE SECOND.

F. PIPE SECOND ANTER CARLE IS SENT HIS MISS. AND FASTER RECORD

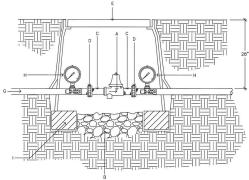
TANDER THE AD THE CAPITE THE HIS GRADE SENGER PROOF

TANDER THE SECOND AND THE CAPITETE FOOTHER OF SERVED.

WE SENDED HER IN CAMPITETE FOOTHER OF SERVED.

K. 6" THOS, 30" DIAMETER MISSED PIPE A GRAVIEL.

RAIN SENSOR NOT TO SCALE



NOTE: PVC PIPE TO BE CLEAR OF VALVE BOX AND SOLID CMJ BLOCK.

CONSTRUCTION NOTES:
A PRESSURE REGULATOR, SEE IRRIGATION LEGEND 2 CU, FT. I' DIAMETER WASHED PEA GRAVEL. SCH. 80 PVC NIPPLE

FLANSE (3" AND ABOVE) AND UNION (BELOW 3" PIPE SIZE)

D. FLANSE (8" NO ABOVE AND MON IRELINE 9" FIFE SIZE C. ANSON REDUCTES NO. 41 OR 150 PB-19 BOT (1485) VALVE DOX WITH HIS OR 150 DOX. TOWN COVER (489) TO MATCH PINNESS WATERLA, AND (150 DOX. TOWN COVER (489) TO MATCH PINNESS WATERLA (150 DOX. DAVID SHE DETECTION FIFE AND VALVE DOX WITH ADMS SIDES AND BASE OF VALVE BOX WATERLA (150 TAKE O. ALL NEET AND OFFILE FIFE AND VALVE DOX WITH ADMY DUTY FLASTIC 5M TAME. MANUAL

HORIZONTAL HYGIENIC PRESSURE GAUGE NOTE: PROVIDE I PRESSURE GAUGE ON MAIN LINE UPSTREAM AND DOWNSTREAM OF PRESSURE REDUCING VALVE, SET IT IN HORIZONTAL TO BE READABLE.

I. 8"X8"X16" SOLID CMJ BLOCK & EACH CORNER.

IN-LINE PRESSURE REGULATOR NOT TO SCALE



MCNELIS CAPE ARCHI

VO VALLEY ESTATES
THAIL AND SERENO PARK
THOUS BLOCK I AND LOTS & MOZI, BLOCK 2
TO THE INCOLOR TO THE INCOLOR TO THE INCOLOR TO THE INCOLOR TO THE INCOLOR TO THE INCOLOR TO THE INCOLOR TO THE INCOLOR TO THE INCOLOR TO THE INCOLOR THE I



DEPARTMENT

faith makes

PARKS



IRRIGATION DETAILS

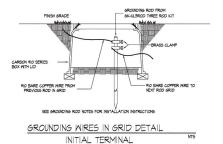
SHEET 14 OF 14

BOX #3 GROUNDING BOD FROM 6K- ULSROD THREE ROD KIT - #10 BARE COPPER WIRE FROM VALVE BOX HELD IN PLACE WITH BRASS CLAMP (SEE DETAIL FOR 'GROUNDING WIRES IN GRID', BOX #2 BOX # CARSON 9IO SERIES VALVE BOX WITH HINGED & BOLT (I OF 3) #IO BARE COPPER WIRE FED THROUGH CONDUIT FROM SATELLITE TO GROUNDING ROD - CONDUIT FROM SATELLITE #IO BARE COPPER WIRE FROM

PLAN VIEW FOR LAYOUT ONLY, SEE GROUNDING ROD NOTES FOR INSTALLATION INSTRUCTIONS.

PLAN VIEW

TRIANGULAR GROUNDING GRID DETAIL P NOT TO SCALE



GROUNDING ROD NOTES:

GRACINUM DOS SENS AS LEGENCES FOR DEVICES TO DESIGNATE THE SURSE INTO THE EARTH.

CAREFULLY SEAD THE FOLLOWIS INSTALLATION INSTRUCTIONS.

LA MANTS IDE A 195 \* 6 COPPEX, CARE DOS THE DEVICES TO THE ROD.

2. RIA A 19 COF LARGER BARG COPPEX RICE THEOR THE DEVICES TO THE ROD.

3. RIA A 19 COF LARGER BARG COPPEX RICE THEOR THE DEVICES TO THE ROD.

3. RICE THE GRACINO WHERE AS SHORT AND STRUGHT AS FORDED FROM THE DEVICES TO THE FIRST ROD.

4. CLAPPA ILL WIRED TO THE GRACIADIS FOOD DO NOT SOLDER OR TAME THEN 10 THE ROD.

5. TO INSTALL SHORDING ROD. DIES GROOD STRUGHT AND SELECTE.

6. SPACE THERE RODS IN A TRANSLAR GRO AT LEAST 8' APART TROM THE OTHERS IN THE GRID, CONNECT ALL THREE RODS INTO THE MANUAL AS GRO AT LEAST 8' APART TROM THE OTHERS IN THE GRID, CONNECT ALL THREE RODS INTO THE OTHER DEVICES TO THE CARE THREE RODS INTO THE ROTTER EQUIPMENT, GRIDD SHOLD IN WE AN EXATH RESISTANCE TO GREATER THAN IS OMES.

THE ROTTER THE THE THE THE THE THREE TO A PARKET TROM THE OTHERS IN THE GRID CONNECT ALL THREE RODS INTO THE DEVICE EQUIPMENT, GRIDD SHOLD IN WE AN EXATH RESISTANCE TO GREATER THAN IS OMES.

I, med i signi of hit in the house submission, induced notice and south incided notice to describe from 5 of the of hebeviers from the own terms of hitscore to in describe not our humbs size a Servantic CLAHP for Bod in Nez. Inchine to Instral, More him one hitscred claw could cause a rook connection resulting in Host Resistance Lovel and the country of the country of the state of the country of the state in the state in exclusion rooks grow as Electrocotes from the state of projects to pissipartie the state into the lateral New Powders these times when Instrallary field.

IRRIGATION IS REGULATED BY: PO BOX 13087 AUSTIN, TEXAS 78711-3087 TCEQ 512-239-6719 CHAPTER 34, TEXAS WATER CODE IRRIGATOR'S LIC. #8947