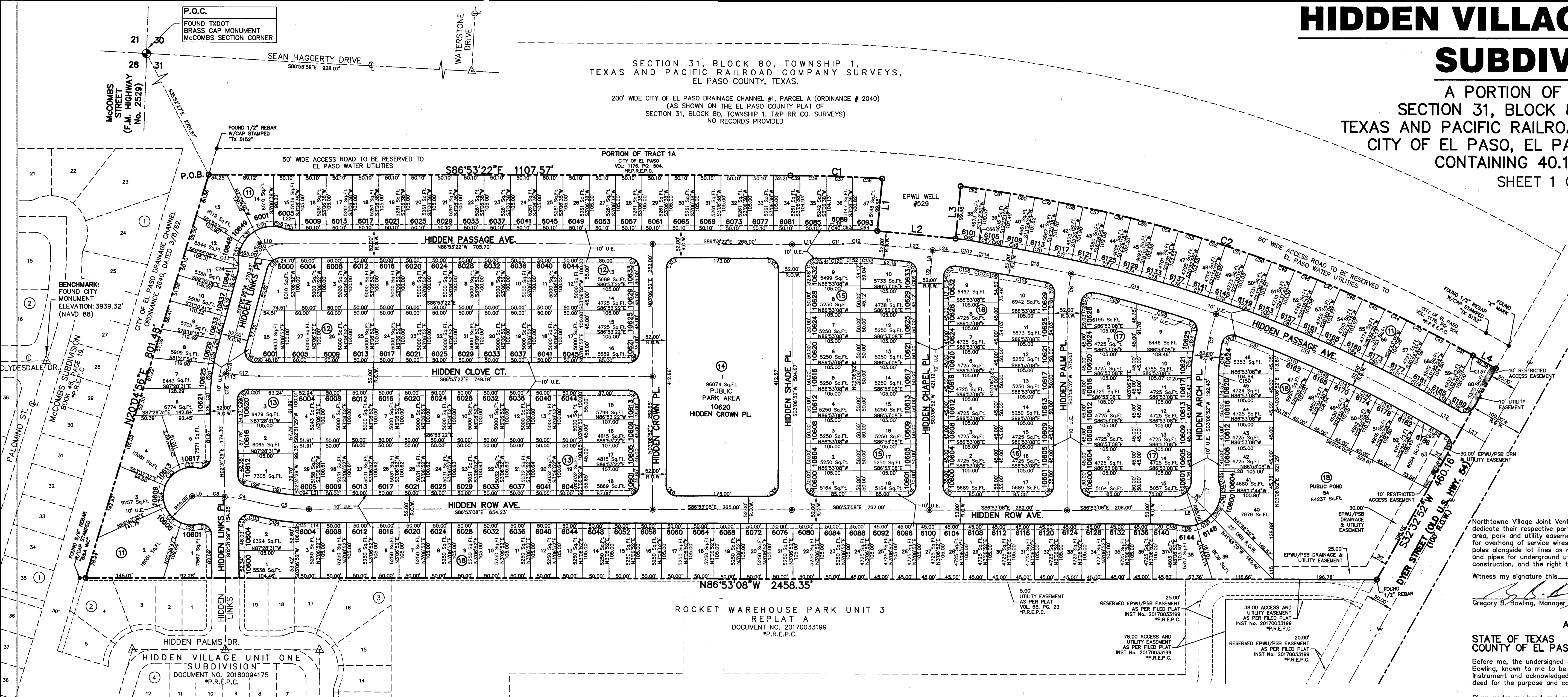


HIDDEN VILLAGE UNIT TWO SUBDIVISION

A PORTION OF TRACT 1A,
SECTION 31, BLOCK 80, TOWNSHIP 1,
TEXAS AND PACIFIC RAILROAD COMPANY SURVEYS,
CITY OF EL PASO, EL PASO COUNTY, TEXAS
CONTAINING 40.15 ACRES ±
SHEET 1 OF 2



DEDICATION
Northtowne Village Joint Venture, 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, ponding area, park and utility easements, as hereon laid down and designated, including easements for overhead 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.
Witness my signature this 8th day of September 2020

Gregory B. Bowling
Gregory B. Bowling, Manager

ACKNOWLEDGEMENT

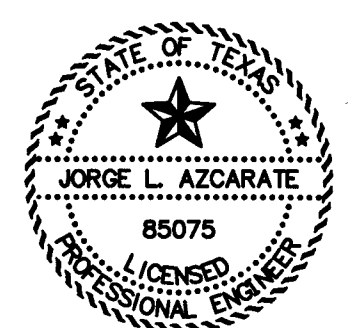
STATE OF TEXAS
COUNTY OF EL PASO
Before me, the undersigned authority, on this day personally appeared Gregory B. Bowling, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same as the act and deed for the purpose and consideration herein expressed.
Given under my hand and seal of office this 8th day of September 2020
Naemi Nally
Notary Public in and for El Paso County My Commission Expires 10-13-2021

CITY PLAN COMMISSION

This subdivision is hereby approved as to the platting and as to the condition of the dedication in accordance with Chapter 212 of the Local Government Code of Texas
this 6th day of August 2020. ATTEST *Z. Z. Az*
Executive Secretary
Margaret Wright 16th day of October 2020
Chairperson
Approved for filing this 16th day of October 2020.
Philip Stone
Planning and Inspections Director

FILING
Filed and recorded in the office of the County Clerk of El Paso County, Texas, this 9th day of November 2020, in File No. 2020091933 of the Plat Records.
Delia Baines *MARIA MENDOZA*
FOR RECORDING PURPOSES ONLY by Deputy

Subdivision Improvement plans prepared by and under the supervision of CEA Group.
This plat represents a survey made on the ground by me or under my supervision and complies with the current Texas Board of Professional Land Survey Professional and Technical Standards.
Jorge L. Azcarate 9/2/2020
Jorge L. Azcarate, P.E.
Licensed Professional Engineer
Texas License No. 85075
Benito Barragan, R.P.L.S. No. 5615



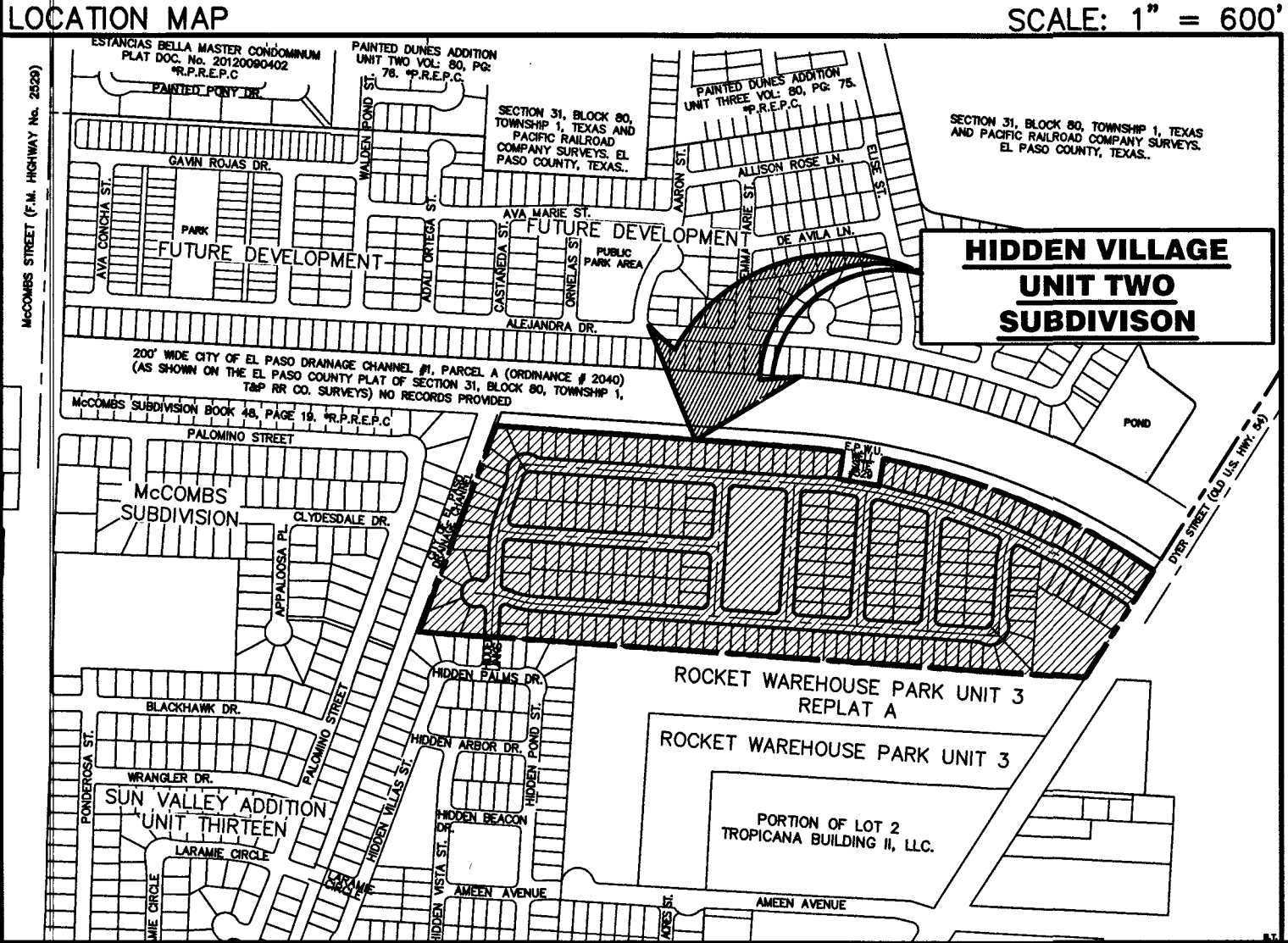
DATE OF PREPARATION: JUNE 2020

SCHOOL DISTRICT
YSLETA INDEPENDENT SCHOOL DISTRICT,
9600 SIMS DRIVE, EL PASO TEXAS, 79925

RESIDENTIAL	= 220
PARK	= 1
POND	= 1
TOTAL	= 222

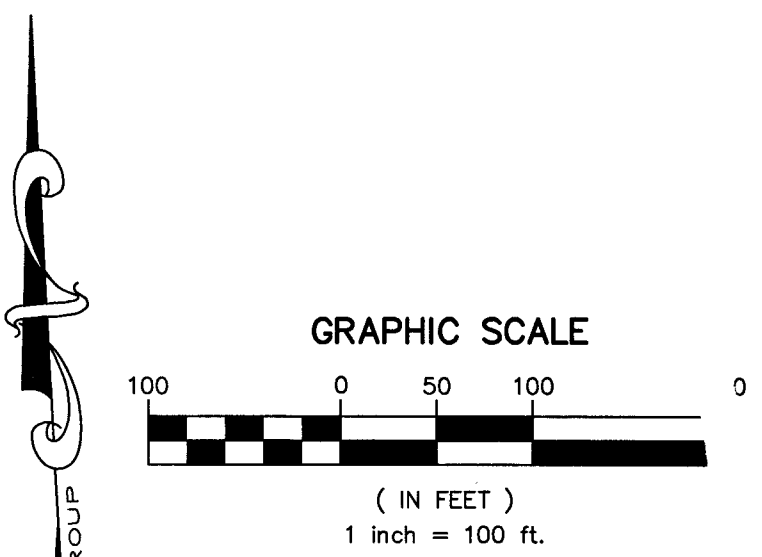
BENCHMARK:
CITY MONUMENT LOCATED AT THE CENTERLINE INTERSECTION OF CLYDESDALE DRIVE AND PALOMINO STREET.
THE NORTH AMERICAN VERTICAL DATUM IS ELEVATION = 3939.32' (NAVD 88).

*R.P.R.E.P.C. = REAL PROPERTY RECORDS OF EL PASO COUNTY, TEXAS
*P.R.E.P.C. = PLAT RECORDS OF EL PASO COUNTY, TEXAS
10' RESTRICTED ACCESS EASEMENT



PLAT NOTES & RESTRICTIONS:

- THIS IS TO CERTIFY THAT WATER AND SEWER SERVICES WILL BE PROVIDED TO HIDDEN VILLAGE UNIT TWO SUBDIVISION BY THE EL PASO WATER UTILITIES/PUBLIC SERVICE BOARD IN ACCORDANCE WITH THEIR RULES AND REGULATIONS AND WITH SECTION 16.343 OF THE TEXAS WATER CODE. WATER AND SEWER SERVICES WILL BE EXTENDED TO THE SUBDIVISION FROM EXISTING FACILITIES LOCATED ON DYER ROAD AND WILL BE CONSTRUCTED TO SERVE THE SUBDIVISION.
- TAX CERTIFICATE(S) FOR THIS SUBDIVISION ARE FILED IN THE OFFICE OF THE COUNTY CLERK, DEED AND RECORD SECTION.
INSTRUMENT No. 2020091934 DATE: 11-9-2020
- RESTRICTIVE COVENANTS FOR THIS SUBDIVISION ARE FILED IN THE OFFICE OF THE COUNTY CLERK, DEED AND RECORD SECTION.
INSTRUMENT No. 2020091935 DATE: 11-9-2020
- INTERIOR LOT CORNERS WILL BE SET UPON COMPLETION OF CONSTRUCTION OF ROADWAYS AND UTILITIES.
- "U.S. POSTAL SERVICE DELIVERY WILL BE PROVIDED THROUGH NEIGHBORHOOD DELIVERY AND COLLECTION BOX UNITS."
- THIS SUBDIVISION LIES WITHIN ZONE "C" AS DESIGNATED IN L.O.M.R. NUMBER 18-06-0885P-480214, LAST REVISION DATE 06-12-2018.
- ⊙ DENOTES PROPOSED MONUMENT. (NOT IN PLACE AS OF DATE OF PREPARATION). MAY BE SUBJECT TO RELOCATION AT TIME OF CONSTRUCTION. (FOR EXACT LOCATION CONTACT CITY OF EL PASO)
- △ DENOTES FOUND CITY MONUMENT.
- ALL EASEMENTS SHALL BE TEN (10') FEET UNLESS OTHERWISE NOTED (10' U.E.).
- ALL DEVELOPED STORM WATER RUN DISCHARGE VOLUMES SHALL BE RETAINED WITHIN THIS SUBDIVISION'S LIMITS IN COMPLIANCE WITH PROVISIONS OF DSC, MUNICIPAL CODE 19.19.010A AND DI 11.1.
- DEED REFERENCE: VOLUME 1176, P. 504 AND INST. NO. 20190044649, DEED RECORDS OF EL PASO COUNTY, TEXAS



ENGINEER
cea group
813 N. Kansas St.
Suite 300
El Paso, TX 79902
915.544.5232
www.ceagroup.net
TEXAS REGISTERED ENGINEERING FIRM F-4564
CONTACT: JORGE L. AZCARATE, P.E.

SURVEYOR
Elarragan & Associates Inc.
LAND PLANNING & LAND SURVEYING
10950 Pellicce - Dr. Bldg. F - El Paso TX 79935
Phone (915) 511-5709 Fax (915) 591-5706
CONTACT: BENITO BARRAGAN, R.P.L.S.

HIDDEN VILLAGE UNIT TWO

SUBDIVISION

A PORTION OF TRACT 1A,
SECTION 31, BLOCK 80, TOWNSHIP 1,
TEXAS AND PACIFIC RAILROAD COMPANY SURVEYS,
CITY OF EL PASO, EL PASO COUNTY, TEXAS
CONTAINING 40.15 ACRES ±

SHEET 2 OF 2

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	2643.55'	174.78'	87.42'	174.75'	S84°59'43"E	003°47'18"
C2	2643.55'	1034.26'	523.83'	1027.67'	S68°38'30"E	022°24'59"
C3	375.00'	32.89'	16.46'	32.88'	N84°57'45"W	005°01'32"
C4	375.00'	66.82'	33.50'	66.73'	N77°20'41"W	010°12'35"
C5	375.00'	95.85'	48.19'	95.59'	S79°33'46"E	014°38'44"
C6	56.00'	87.96'	56.00'	79.20'	N48°06'52"E	090°00'00"
C7	375.00'	126.63'	63.92'	126.03'	S12°47'19"W	019°20'53"
C8	375.00'	75.80'	38.03'	75.67'	S08°54'18"W	011°34'52"
C9	375.00'	41.38'	20.71'	41.36'	S06°16'32"W	006°19'19"
C10	56.00'	73.30'	42.97'	68.18'	S55°36'38"W	075°00'00"
C11	400.00'	25.26'	12.63'	25.25'	S88°41'54"E	003°37'04"
C12	400.00'	63.06'	31.60'	63.00'	N85°59'27"W	009°01'58"
C13	2500.00'	160.18'	80.12'	160.15'	N76°16'00"W	003°40'16"
C14	2500.00'	286.43'	143.37'	286.27'	N71°08'56"W	006°33'52"
C15	2500.00'	455.23'	228.25'	454.60'	N62°39'01"W	010°25'59"
C16	375.00'	60.44'	30.28'	60.37'	S07°08'30"W	009°14'02"
C17	375.00'	51.06'	25.57'	51.02'	S82°59'18"W	007°48'07"
C18	375.00'	41.57'	20.81'	41.55'	S14°56'04"W	006°21'07"
C19	401.00'	30.20'	15.11'	30.20'	S15°57'10"W	004°18'55"
C20	401.00'	46.60'	23.33'	46.57'	S10°27'58"W	006°39'29"
C21	401.00'	32.28'	16.15'	32.27'	S04°49'51"W	004°36'44"
C22	55.00'	34.08'	17.61'	33.54'	S86°52'33"W	035°30'18"
C23	55.00'	43.06'	22.70'	41.97'	S46°41'42"W	044°51'23"
C24	55.00'	41.74'	21.93'	40.75'	S02°31'29"W	043°29'03"
C25	55.00'	43.06'	22.70'	41.97'	S41°38'44"E	044°51'23"
C26	55.00'	34.08'	17.61'	33.54'	S81°49'34"E	035°30'18"
C27	20.00'	35.64'	24.74'	31.11'	N48°31'37"W	102°06'13"
C28	20.00'	35.64'	24.74'	31.11'	N53°34'36"E	102°06'14"
C29	65.00'	21.84'	11.02'	21.74'	N75°46'53"W	019°15'08"
C30	65.00'	37.80'	19.45'	37.27'	S77°56'05"W	033°18'56"
C31	65.00'	33.38'	17.07'	33.01'	S46°33'59"W	029°25'15"
C32	65.00'	39.12'	20.17'	38.53'	S14°36'58"W	034°28'48"
C33	40.00'	3.62'	1.81'	3.62'	N00°01'54"W	005°11'03"
C34	40.00'	10.86'	5.46'	10.82'	N10°20'08"E	015°33'01"
C35	40.00'	14.48'	7.32'	14.40'	S76°31'20"E	020°44'03"
C36	2643.55'	56.64'	28.32'	56.64'	N83°42'54"W	001°13'40"
C37	2643.55'	50.14'	25.07'	50.14'	N84°52'20"W	001°05'12"
C38	2643.55'	50.11'	25.06'	50.11'	N85°57'31"W	001°05'10"
C39	2643.55'	17.89'	8.94'	17.89'	N86°41'44"W	000°23'16"
C40	374.00'	23.62'	11.81'	23.61'	S88°41'54"E	003°37'04"
C41	2643.55'	46.80'	23.40'	46.80'	N57°59'32"W	001°00'52"
C42	2643.55'	46.80'	23.40'	46.80'	N59°00'23"W	001°00'52"

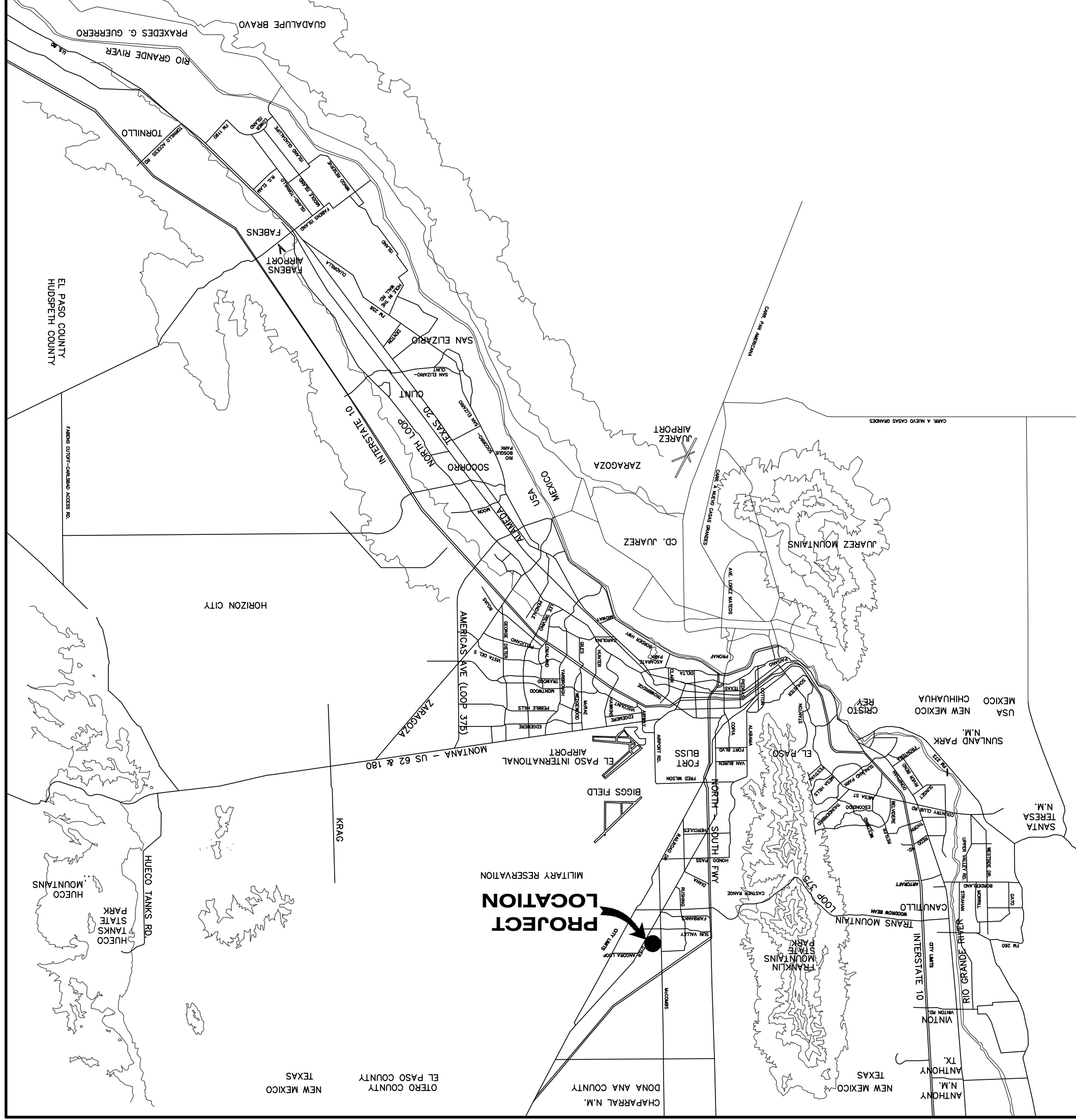
CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C43	2643.55'	46.80'	23.40'	46.80'	N60°01'15"W	001°00'52"
C44	2643.55'	46.80'	23.40'	46.80'	N61°02'06"W	001°00'52"
C45	2643.55'	46.80'	23.40'	46.80'	N62°02'58"W	001°00'52"
C46	2643.55'	46.80'	23.40'	46.80'	N63°03'50"W	001°00'52"
C47	2643.55'	46.80'	23.40'	46.80'	N64°04'41"W	001°00'52"
C48	2643.55'	46.80'	23.40'	46.80'	N65°05'33"W	001°00'52"
C49	2643.55'	46.80'	23.40'	46.80'	N66°06'25"W	001°00'52"
C50	2643.55'	46.80'	23.40'	46.80'	N67°07'16"W	001°00'52"
C51	2643.55'	46.80'	23.40'	46.80'	N68°08'08"W	001°00'52"
C52	2643.55'	46.80'	23.40'	46.80'	N69°08'59"W	001°00'52"
C53	2643.55'	46.80'	23.40'	46.80'	N70°09'51"W	001°00'52"
C54	2643.55'	46.80'	23.40'	46.80'	N71°10'43"W	001°00'52"
C55	2643.55'	46.80'	23.40'	46.80'	N72°11'34"W	001°00'52"
C56	2643.55'	46.80'	23.40'	46.80'	N73°12'26"W	001°00'52"
C57	2643.55'	46.80'	23.40'	46.80'	N74°13'18"W	001°00'52"
C58	2643.55'	46.80'	23.40'	46.80'	N75°14'09"W	001°00'52"
C59	2643.55'	46.80'	23.40'	46.80'	N76°15'01"W	001°00'52"
C60	2643.55'	46.80'	23.40'	46.80'	N77°15'52"W	001°00'52"
C61	2643.55'	46.80'	23.40'	46.80'	N78°16'44"W	001°00'52"
C62	2643.55'	49.08'	24.54'	49.08'	N79°19'04"W	001°03'49"
C63	426.00'	20.03'	10.02'	20.03'	S04°49'51"W	002°41'38"
C64	426.00'	47.13'	23.59'	47.11'	S84°38'38"E	006°20'20"
C65	426.00'	44.46'	22.25'	44.44'	S78°29'05"E	005°58'46"
C66	426.00'	3.30'	1.65'	3.30'	S75°16'24"E	000°26'37"
C67	374.00'	19.91'	9.96'	19.91'	S76°34'37"E	003°03'03"
C68	2526.00'	21.54'	10.77'	21.54'	N77°51'29"W	000°29'19"
C69	2526.00'	44.99'	22.50'	44.99'	N77°06'13"W	001°01'14"
C70	2526.00'	44.99'	22.50'	44.99'	N76°04'59"W	001°01'14"
C71	2526.00'	44.99'	22.49'	44.99'	N75°03'45"W	001°01'13"
C72	2526.00'	44.98'	22.49'	44.98'	N74°02'32"W	001°01'13"
C73	2526.00'	44.98'	22.49'	44.98'	N73°01'19"W	001°01'13"
C74	2526.00'	44.98'	22.49'	44.98'	N72°00'06"W	001°01'13"
C75	2526.00'	44.98'	22.49'	44.98'	N70°58'53"W	001°01'13"
C76	2526.00'	44.97'	22.49'	44.97'	N69°57'41"W	001°01'12"
C77	2526.00'	44.97'	22.49'	44.97'	N68°56'29"W	001°01'12"
C78	2526.00'	44.97'	22.48'	44.97'	N67°55'17"W	001°01'12"
C79	2526.00'	44.96'	22.48'	44.96'	N66°54'05"W	001°01'12"
C80	2526.00'	44.96'	22.48'	44.96'	N65°52'53"W	001°01'11"
C81	2526.00'	44.96'	22.48'	44.96'	N64°51'42"W	001°01'11"
C82	2526.00'	44.95'	22.48'	44.95'	N63°50'31"W	001°01'11"
C83	2526.00'	44.95'	22.48'	44.95'	N62°49'20"W	001°01'11"
C84	2526.00'	44.95'	22.47'	44.95'	N61°48'10"W	001°01'10"

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C85	2526.00'	44.94'	22.47'	44.94'	N60°47'00"W	001°01'10"
C86	40.00'	11.37'	5.72'	11.33'	S05°01'42"E	016°17'09"
C87	20.00'	31.42'	20.00'	28.29'	N41°53'15"W	090°00'15"
C88	20.00'	31.41'	20.00'	28.28'	N48°06'45"E	089°59'45"
C89	30.00'	39.27'	23.02'	36.53'	S55°36'38"W	075°00'00"
C90	349.00'	7.46'	3.73'	7.46'	S86°16'39"E	001°13'27"
C91	2474.00'	76.89'	38.45'	76.89'	N65°49'57"W	001°46'51"
C92	2474.00'	16.92'	8.46'	16.92'	N57°37'46"W	000°23'30"
C93	349.00'	59.51'	29.83'	59.44'	S77°07'30"E	009°46'13"
C94	349.00'	29.70'	14.86'	29.69'	S84°26'52"E	004°52'30"
C95	401.00'	31.08'	15.55'	31.07'	N74°27'36"W	004°26'26"
C96	20.00'	27.65'	16.55'	25.50'	S37°04'40"E	079°12'18"
C97	20.00'	31.42'	20.00'	28.29'	N41°53'15"W	090°00'15"
C98	20.00'	31.42'	20.00'	28.28'	N48°06'45"E	090°00'00"
C99	358.48'	9.69'	4.85'	9.69'	S03°19'13"W	001°32'57"
C100	20.00'	32.08'	20.68'	28.75'	S50°04'23"W	091°54'51"
C101	401.00'	20.43'	10.22'	20.43'	S85°25'47"E	002°55'10"
C102	20.00'	31.41'	20.00'	28.28'	S48°06'45"W	089°59'45"
C103	20.00'	31.42'	20.00'	28.29'	N41°53'13"W	090°00'18"
C104	20.00'	31.42'	20.00'	28.28'	N48°06'52"E	090°00'00"
C105	20.00'	31.42'	20.00'	28.28'	S41°53'08"E	090°00'00"
C106	20.00'	31.42'	20.00'	28.28'	S41°53'08"E	090°00'00"
C107	400.00'	44.84'	22.44'	44.82'	N78°15'47"W	006°25'22"
C108	20.00'	31.04'	19.62'	28.01'	N37°01'11"W	088°54'34"
C109	400.94'	30.24'	15.13'	30.23'	S05°16'29"W	004°19'15"
C110	2474.00'	82.21'	41.11'	82.21'	N63°59'24"W	001°54'14"
C111	20.00'	31.42'	20.00'	28.28'	N48°06'52"E	090°00'00"
C112	20.00'	31.41'	20.00'	28.28'	S48°06'45"W	089°59'45"
C113	20.00'	31.42'	20.00'	28.28'	S41°53'08"E	090°00'00"
C114	400.00'	21.30'	10.65'	21.30'	S76°34'37"E	003°03'03"
C115	2526.00'	44.94'	22.47'	44.94'	N59°45'50"W	001°01'10"
C116	2526.00'	44.94'	22.47'	44.94'	N58°44'40"W	001°01'09"
C117	2526.00'	35.33'	17.66'	35.33'	N57°50'03"W	000°48'05"
C118	20.00'	31.42'	20.00'	28.28'	N48°06'52"E	090°00'00"
C119	20.00'	31.42'	20.01'	28.29'	N77°33'23"E	090°01'06"
C120	426.00'	26.90'	13.45'	26.89'	S88°41'54"E	003°37'04"
C121	20.00'	31.41'	19.99'	28.28'	N12°26'34"W	089°58'53"
C122	20.00'	31.42'	20.00'	28.28'	S41°53'08"E	090°00'00"
C123	401.00'	38.17'	19.10'	38.16'	S13°22'30"W	005°27'16"
C124	401.00'	45.15'	22.60'	45.13'	S07°25'20"W	006°27'05"
C125	401.00'	7.57'	3.79'	7.57'	S03°39'20"W	001°04'55"
C126	349.00'	20.22'	10.11'	20.22'	S04°46'29"W	003°19'13"

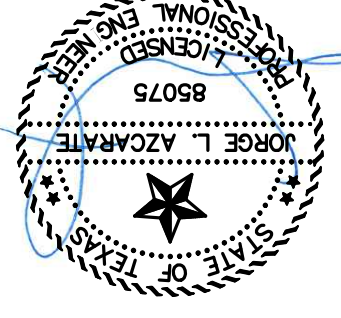
CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C127	20.00'	35.01'	23.96'	30.71'	S56°35'13"W	100°18'16"
C128	2474.00'	106.48'	53.25'	106.48'	N70°07'11"W	002°27'58"
C129	2474.00'	82.39'	41.20'	82.39'	N72°18'24"W	001°54'29"
C130	30.00'	47.12'	30.00'	42.43'	N48°06'52"E	090°00'00"
C131	20.00'	29.67'	18.32'	27.02'	N26°23'32"W	084°59'19"
C132	20.00'	36.26'	25.54'	31.49'	S54°27'30"W	103°52'01"
C133	349.00'	8.34'	4.17'	8.34'	N72°55'27"W	001°22'06"
C134	401.00'	73.90'	37.05'	73.79'	S77°31'09"E	010°33'30"
C135	401.00'	28.60'	14.31'	28.60'	S84°50'31"E	004°05'13"
C136	40.00'	11.37'	5.72'	11.33'	N78°44'33"W	016°17'09"
C137	2643.55'	2.37'	1.19'	2.37'	N57°27'33"W	000°03'05"
C138	65.00'	37.20'	19.13'	36.70'	S86°59'44"E	032°47'32"
C139	65.00'	32.55'	16.63'	32.21'	N62°15'37"E	028°41'44"
C140	65.00'	25.69'	13.01'	25.52'	N48°06'52"E	021°33'37"
C141	65.00'	24.46'	12.38'	24.32'	N14°29'13"E	021°33'52"
C142	65.00'	19.15'	9.64'	19.08'	N04°44'00"W	016°52'33"
C143	349.00'	58.25'	29.19'	58.18'	S09°36'28"W	009°33'44"</

HIDDEN VILLAGE UNIT TWO SUBDIVISION IMPROVEMENTS

**A PORTION OF TRACT 1A, SECTION 31,
BLOCK 80, TOWNSHIP 1, TEXAS AND
CITY OF EL PASO, EL PASO COUNTY, TEXAS
CONTAINING 40.15 ACRES ±**



SHEET NUMBER	SHEET TITLE
CVR	COVER SHEET
C1.1	GENERAL INFORMATION
C2.1, C2.2	FINAL PLAT
C3.1-C3.5	GRADING PLANS
C4.1	DRAINAGE PLAN
C5.1, C5.2	GRADING SECTIONS
C6.1-C6.13	STREET PLAN & PROFILES
C7.1-C7.4	STORM SEWER PLAN & PROFILES
C8.1	POND DESIGN PLAN
C9.1-C9.3	STANDARD DETAILS
C9.4-C9.6	MEDIAN OPENING DETAILS (TxDOT DETAILS)
C10.1-C10.4	DRAINAGE DETAILS
C11.1-C11.3	ILLUMINATION, SIGNAGE AND STRIPING PLAN, PHASING PLAN
C12.1	WATER INDEX / GENERAL INFORMATION
C12.2-C12.6	WATER DETAILS
C13.1	SANITARY SEWER INDEX / GENERAL INFORMATION
C13.2-C13.6	SANITARY SEWER PLAN & PROFILES
C13.7-C13.9	SANITARY SEWER DETAILS
C14.1-C14.3	STORM WATER POLLUTION PREVENTION PLAN
L1 - L12	LANDSCAPE & IRRIGATION PLANS
E1.0 - E1.1	ELECTRICAL PLANS



JORGE L. AZCARATE, P.E. PROJECT MANAGER
06-25-20

cea
813 N. Kansas St.
Suite 300
El Paso, TX 79902
915.544.5232
www.ceagroup.net
TEXAS REGISTERED ENGINEERING FIRM F-4564

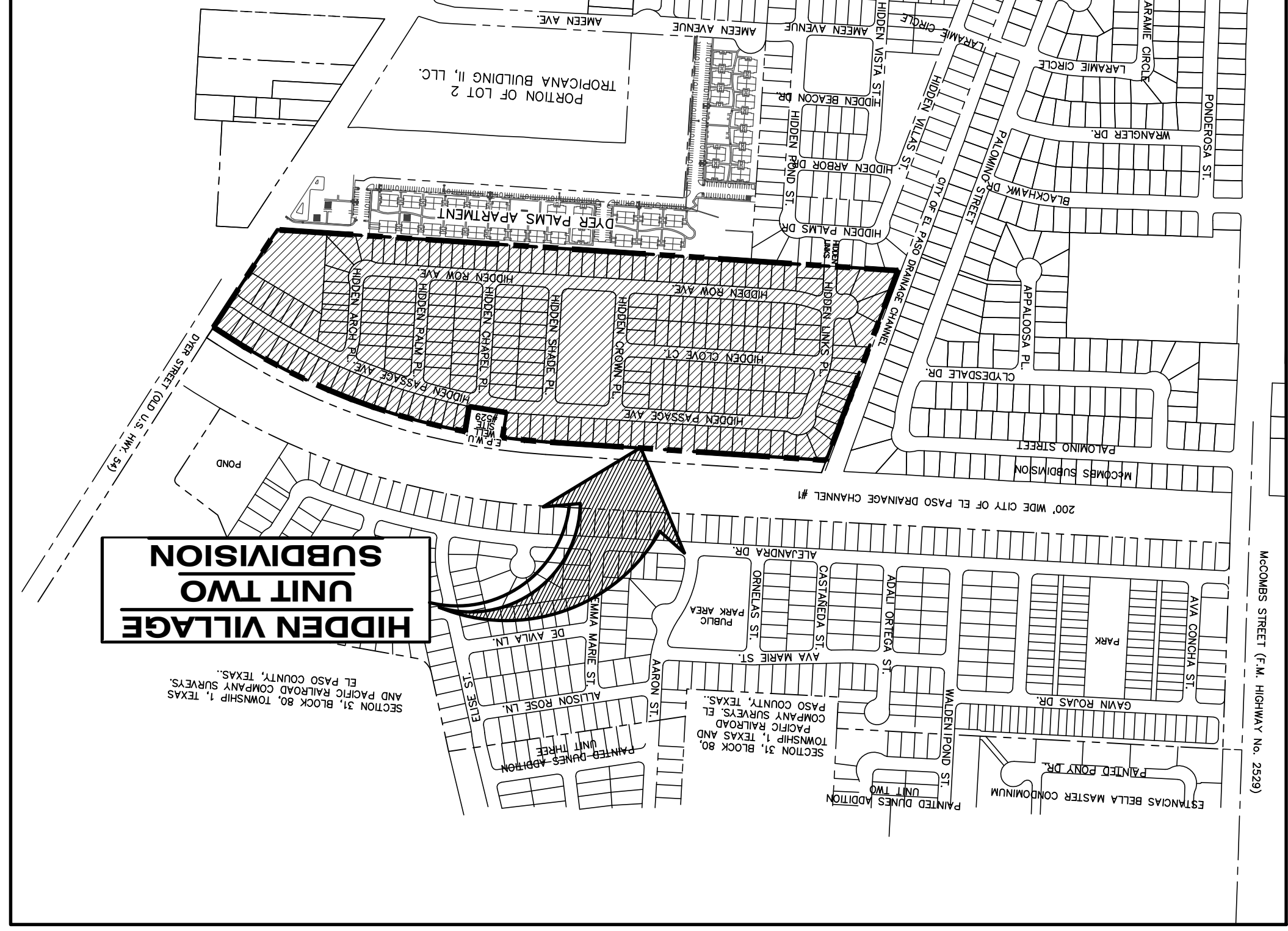
OWNER: NORTHSTONE VILLAGE JOINT VENTURE, 600 NORTHERN PASS, STE. C-1 EL PASO, TX 79911 (915) 757-1802 (915) 757-1827

ENGINEER: CEA GROUP 813 N. KANSAS STREET, STE. 300 EL PASO, TX 79902 (915) 544-5232

SURVEYOR: BARRAGAN & ASSOCIATES 10950 PELLICANO DR. BLDG. F EL PASO, TX 79935 (915) 591-5709 (915) 591-5706

NAME ADDRESS CITY & ZIP PHONE FAX

PRINCIPAL CONTACTS:



CITY DEVELOPMENT DEPARTMENT



Reviewed For Conformance For Condition Related To:

- ✓ Sidewalk
- ✓ Grading & Drainage
- ✓ Wheelchair Ramps
- ✓ On Site Parking Layout
- ✓ Driveways
- ✓ Retaining Rock Walls
- ✓ On site Ponding of Storm Waters

Contractor Must Call 24 Hours Prior To Construction for Inspections

By Oscar Romero Villalobos
Date 07/01/2020

GENERAL NOTES

- THE CONTRACTOR SHALL VISIT AND FAMILIARIZE HIMSELF WITH THE PROJECT SITE PRIOR TO SUBMITTING BIDS.
- CONTRACTOR SHALL WATER CONSTRUCTION AREA A MINIMUM OF TWICE A DAY TO KEEP DUST TO A MINIMUM - ONCE IN THE MORNING AND BEFORE QUITTING TIME. THIS SHALL ALSO BE DONE DURING WEEKENDS AND HOLIDAYS.
- IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE, PROTECT, AND REPLACE ALL UNDERGROUND UTILITY LINES AT NO EXTRA COST TO THE OWNER WHEN LINES ARE DISTURBED AS A RESULT OF THE WORK.
- IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SCHEDULE AND PERFORM HIS WORK SO AS TO ASSURE PROPER PASSAGE OF STORM RUNOFF DURING THE COURSE OF HIS OPERATIONS. ALL LABOR, TOOLS, EQUIPMENT, AND SUPERVISION REQUIRED TO ASSURE SUCH PROPER PASSAGE OF RUNOFF WATER AND ANY REMOVAL OR HANDLING OF WATER IN ORDER TO MAINTAIN DRY CONDITIONS SHALL BE CONSIDERED INCIDENTAL TO THE WORK, AND SHALL BE AT THE EXPENSE OF THE CONTRACTOR.
- THE CONTRACTOR SHALL COORDINATE THE CONSTRUCTION SCHEDULE WITH THE USER, ALL UTILITIES, AND ALL OTHER AGENCIES WITH JURISDICTION OVER THE PROJECT.
- ALL EXISTING PAVEMENT, ADJACENT UTILITIES, STRUCTURES, ETC., DISTURBED AS A RESULT OF THE NEW CONSTRUCTION, SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- THE OWNER WILL FURNISH HORIZONTAL AND VERTICAL CONTROL REFERENCED POINTS ONLY. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND GRADES BEFORE PROCEEDING WITH THE WORK. ANY DISCREPANCIES FOUND SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER, OTHERWISE THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THEIR CORRECTNESS.
- SEE REFERENCED BENCHMARK ON TITLE BLOCK FOR DATUM ELEVATIONS.
- VIBRATORY ROLLERS WILL NOT BE PERMITTED ON ANY PHASE OF THIS PROJECT, UNLESS APPROVED IN WRITING BY THE CITY ENGINEER.
- ALL WORK REQUIRED BY THESE PLANS SHALL BE CONDUCTED IN CONFORMANCE WITH CURRENT SAFETY CODES AND STANDARDS WITH JURISDICTION OVER THE PROJECT.
- THE LOCATION OF THE INLETS SHALL BE AT THE FIELD LOW POINT AND APPROVED BY THE ENGINEER.

LEGEND

	SUBDIVISION BOUNDARY
	ROW LINE
	CURB LINE
	PROPERTY LINE
	STREET CENTERLINE
	EASEMENT LINE
	MATCH LINE
	STORM SEWER LINE
	HIGH WATER MARK
	CURB AND GUTTER DROP INLET
	STORM SEWER MANHOLE
	FINISHED GROUND CONTOUR ELEVATION (INDEX)
	FINISHED GROUND CONTOUR ELEVATION (INTERMEDIATE)
	EXISTING GROUND CONTOUR ELEVATION (INDEX)
	EXISTING GROUND CONTOUR ELEVATION (INTERMEDIATE)
	NEW RETAINING ROCKWALL (2'-3' IN HEIGHT)
	NEW RETAINING ROCKWALL (3'-9' IN HEIGHT)
	STANDARD DETAIL/SECTION NUMBER
	SHEET NUMBER WHERE STANDARD/SECTION DETAIL IS LOCATED
	FINISHED SPOT ELEVATION
	LOT FINISHED GROUND ELEVATION
	TOP OF CURB ELEVATION
	TOP OF PAVEMENT ELEVATION
	SUBDIVISION LOT AND BLOCK NUMBER
	DRAINAGE FLOW
	HIGH POINT
	LOW POINT
	EXISTING HIGH POINT
	EXISTING LOW POINT
	HEADWALL WITH WINGWALLS
	DRAINAGE AREA
	3:1 SLOPE HORIZONTAL:VERTICAL SLOPE RATIO
	WHEELCHAIR RAMP

GRADING SPECIFICATIONS

- CLEARING AND GRUBBING: CLEAR SITE OF TREES, SHRUBS AND OTHER VEGETATION; COMPLETELY REMOVE STUMPS, ROOTS AND OTHER DEBRIS PROTRUDING THROUGH GROUND SURFACE; FILL DEPRESSIONS CAUSED BY CLEARING AND GRUBBING OPERATIONS WITH SATISFACTORY FILL MATERIAL, UNLESS FURTHER EXCAVATION OF EARTHWORK IS INDICATED; REMOVE EXISTING ABOVE-GRADE AND BELOW-GRADE IMPROVEMENTS AS INDICATED AND AS NECESSARY TO FACILITATE NEW CONSTRUCTION. BURNING IS NOT PERMITTED ON OWNER'S PROPERTY. REMOVE WASTE MATERIALS FROM OWNER'S PROPERTY.
- SATISFACTORY FILL MATERIALS: FILL MATERIALS SHALL BE FREE OF ANY ORGANIC OR DELETERIOUS SUBSTANCE AND SHALL NOT CONTAIN ROCKS OR LUMPS OVER 3 INCHES IN GREATEST DIMENSION AND SHALL BE DEFINED AS THOSE COMPLYING WITH ASTM D2487 SOIL CLASSIFICATION GROUPS GW, GP, GM, GC, SM, SP, SM, AND SC.
- UNSATISFACTORY FILL MATERIAL: ARE DEFINED AS THOSE COMPLYING WITH ASTM D2487 SOIL CLASSIFICATION GROUPS ML, MH, CL, CH, OL, OH, AND PT, OR WHERE THE PLASTICITY INDEX EXCEEDS 12, UNLESS OTHERWISE APPROVED BY ENGINEER, OR CITY ENGINEER.
- EXCAVATION: IS UNCLASSIFIED AND INCLUDES EXCAVATION TO ELEVATIONS INDICATED, REGARDLESS OF CHARACTER OF MATERIAL AND OBSTRUCTIONS ENCOUNTERED.
- GROUND SURFACE PREPARATION FOR FILL: REMOVE VEGETATION, DEBRIS, UNSATISFACTORY SOIL MATERIAL, OBSTRUCTIONS, AND DELETERIOUS MATERIAL FROM GROUND SURFACE UPON WHICH THE FILL IS TO BE PLACED. THE SURFACE SHALL THEN BE SCARIFIED TO A DEPTH OF AT LEAST 6-INCHES, AND UNTIL THE SURFACE IS FREE FROM RUTS, HUMMOCKS OR OTHER UNEVEN FEATURES WHICH WOULD PREVENT UNIFORM COMPACTION. PLOW STRIP, OR BREAK UP SLOPED SURFACES STEEPER THAN 1 VERTICAL TO 4 HORIZONTAL SO THAT FILL MATERIAL WILL BOND WITH 1 VERTICAL TO 4 HORIZONTAL SO THAT FILL MATERIAL WILL BOND WITH EXISTING SURFACE. AFTER PLOWING AND SCARIFYING FILL AREA, IT SHALL THEN BE DISCED OR BLADED UNTIL IT IS UNIFORM AND FREE FROM LARGE CLODS, BROUGHT TO OPTIMUM MOISTURE, AND COMPACTED TO 95% OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D-1557.
- PLACEMENT OF FILL: PLACE BACKFILL AND FILL MATERIALS IN LAYERS NOT MORE THAN 8 INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HEAVY COMPACTION EQUIPMENT, AND NOT MORE THAN 4 INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HAND-OPERATED TAMPERS. BEFORE COMPACTION, MOISTEN OR AERATE EACH LAYER AS NECESSARY TO PROVIDE OPTIMUM MOISTURE CONTENT. PLACE FILL MATERIALS EVENLY ADJACENT TO SITE APPURTENANCES, PIPING, OR CONDUIT TO REQUIRED ELEVATIONS. PREVENT WEDGING ACTION OF BACKFILL AGAINST SITE APPURTENANCES OR DISPLACEMENT OF PIPING OR CONDUIT BY CARRYING MATERIAL UNIFORMLY AROUND SITE APPURTENANCES, PIPING, OR CONDUIT TO APPROXIMATELY SAME ELEVATION IN EACH LIFT. COMPACT SOIL TO NOT LESS THAN 95% OF MAXIMUM DENSITY, IN ACCORDANCE WITH ASTM D-1557.
- MOISTURE CONTROL: WHERE SUBGRADE OR LAYER OF SOIL MATERIAL MUST BE CONDITIONED FOR OPTIMUM MOISTURE BEFORE COMPACTION, UNIFORMLY APPLY WATER TO SURFACE OF SUBGRADE OR LAYER OF SOIL MATERIAL. APPLY WATER IN MINIMUM QUANTITY AS NECESSARY TO PREVENT FREE WATER FROM APPEARING ON SURFACE DURING OR SUBSEQUENT TO COMPACTION OPERATIONS. WATER CONTENT SHALL BE WITHIN 3 PERCENTAGE POINTS OF OPTIMUM MOISTURE CONTENT. REMOVE AND REPLACE, OR SCARIFY AND AIR DRY SOIL MATERIAL THAT IS TOO WET TO PERMIT COMPACTION TO SPECIFIED DENSITY.
- QUALITY CONTROL: THE OWNER SHALL PROVIDE A GEOTECHNICAL ENGINEER TO PERFORM FIELD DENSITY TEST OF THE COMPACTION OF EACH LAYER OF FILL. DENSITY TESTS SHALL BE TAKEN IN THE COMPACTED MATERIAL BELOW THE DISTURBED SURFACE. WHEN THESE TESTS INDICATE THAT THE DENSITY OF ANY LAYER OF FILL OR PORTION THEREOF IS BELOW THE REQUIRED DENSITY, THE PARTICULAR LAYER OR PORTION SHALL BE REWORKED UNTIL THE REQUIRED DENSITY HAS BEEN OBTAINED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ADDITIONAL TESTING AND WHEN REQUIRED DENSITIES ARE NOT MET, SUPERVISION BY THE GEOTECHNICAL ENGINEER DURING THE GRADING OPERATIONS TO ENSURE GRADING WORK IN ACCORDANCE WITH THIS PLAN AND SPECIFICATIONS.

ABBREVIATIONS

LP	LOW POINT
HP	HIGH POINT
ELEV	ELEVATION
STA	STATION
VCS	VERTICAL CURVE STATION
VCE	VERTICAL CURVE ELEVATION
TC	TOP OF CURB
TM	TOP OF MEDIAN
TP	TOP OF PAVEMENT
TYP	TYPICAL
PVC	POINT OF VERTICAL CURVE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENT
AD	ALGEBRAIC DIFFERENCE
CR	CURVE RETURN
ROW	RIGHT OF WAY
CL	CENTER LINE
PL	PROPERTY LINE
FG	FINISH GRADE
FF	FINISH FLOOR
EG	EXISTING GRADE
MIN.	MINIMUM
MAX.	MAXIMUM
RCP	REINFORCED CONCRETE PIPE
Q	QUANTITY
CAP	CAPACITY
EXP	EXPECTED
INV	INVERT
CFS	CUBIC FEET PER SECOND
A	AREA
DA	DRAINAGE AREA
LF	LINEAR FEET
STD	STANDARD
CONC	CONCRETE
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
PT	POINT OF TANGENT
L	LENGTH
R	RADIUS
T	TANGENT
Δ	DELTA ANGLE
S	SLOPE
TEMP	TEMPORARY
V	VELOCITY IN FEET PER SECOND
HGL	HYDRAULIC GRADE LINE
HWE	HIGH WATER ELEVATION

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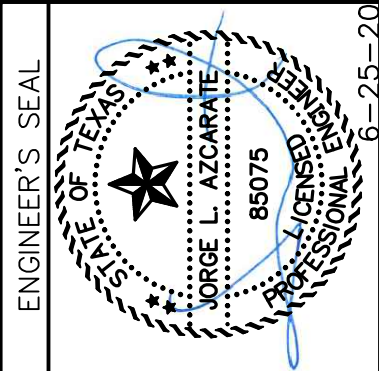
UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5500
MCI SURVEILLANCE	(800) MCI-WORK
TIME WARNER COMMUNICATIONS	(915) 772-1123
TEXAS GAS SERVICE	(915) 680-7200
SBC	(800) 945-6005
AT&T	(800) 852-3786
U.S. SPRINT TELECOM	(800) 521-0579

WARNING!
BEFORE YOU DIG
CALL 811
FOR FIELD LOCATING EXISTING UTILITIES

REFERENCES - BENCHMARKS	CITY MONUMENT LOCATED AT THE CENTERLINE INTERSECTION OF CLYDEDALE DRIVE AND PALOMINO STREET, THE NORTH AMERICAN VERTICAL DATUM IS ELEVATION = 3939.32 (NAD 86).
DATE	
REVISIONS	
BY	

813 N. Kansas St.
Suite 300
El Paso, TX 79902
915.544.5232
www.ceagroup.net

TEXAS REGISTERED ENGINEERING FIRM F-4564



SCALE	N/A
Horizontal:	N/A
Vertical:	N/A
Contour Interval:	N/A
DATE:	JUNE 2020
DESIGN BY:	R.O.
DRAWN BY:	F.Z.
CHKD. BY:	F.Z.
APPVD. BY:	J.L.A.
JOB No.	2000-223

PROJECT TITLE
**HIDDEN VILLAGE
UNIT TWO
SUBDIVISION IMPROVEMENTS**

SHEET TITLE
GENERAL INFORMATION

SHEET NO.
C1.1



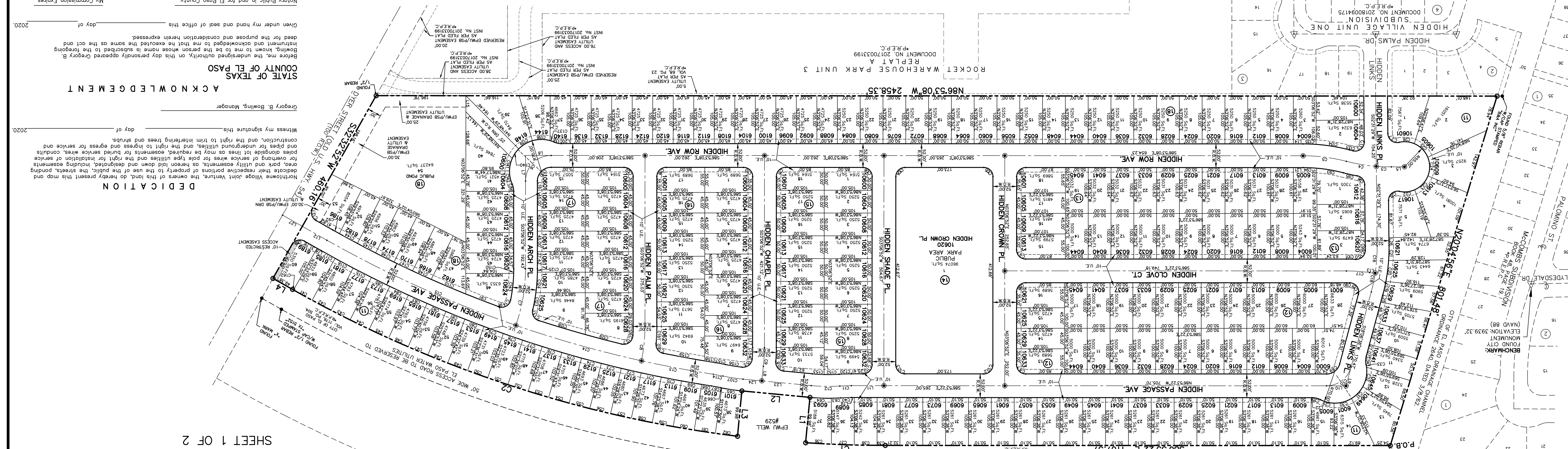
Oscar Villalobos 07/01/2020
BY DATE

HIDDEN VILLAGE UNIT TWO

SUBDIVISION

A PORTION OF TRACT 1A,
SECTION 31, BLOCK 80, TOWNSHIP 1,
TEXAS AND PACIFIC RAILROAD COMPANY SURVEYS,
CITY OF EL PASO, EL PASO COUNTY, TEXAS
CONTAINING 40.15 ACRES ±

SHEET 1 OF 2



SECTION 31, BLOCK 80, TOWNSHIP 1,
TEXAS AND PACIFIC RAILROAD COMPANY SURVEYS,
EL PASO COUNTY, TEXAS.
(AS SHOWN ON THE EL PASO COUNTY PLAT OF
SECTION 31, BLOCK 80, TOWNSHIP 1, TRP RR CO. SURVEYS)
NO RECORDS PROVIDED

Notary Public in and for El Paso County
My Commission Expires _____ day of _____, 2020.

City Planning Commission
Approved for filing this _____ day of _____, 2020.
Chairperson _____ Executive Secretary _____
Planning and Inspections Director _____

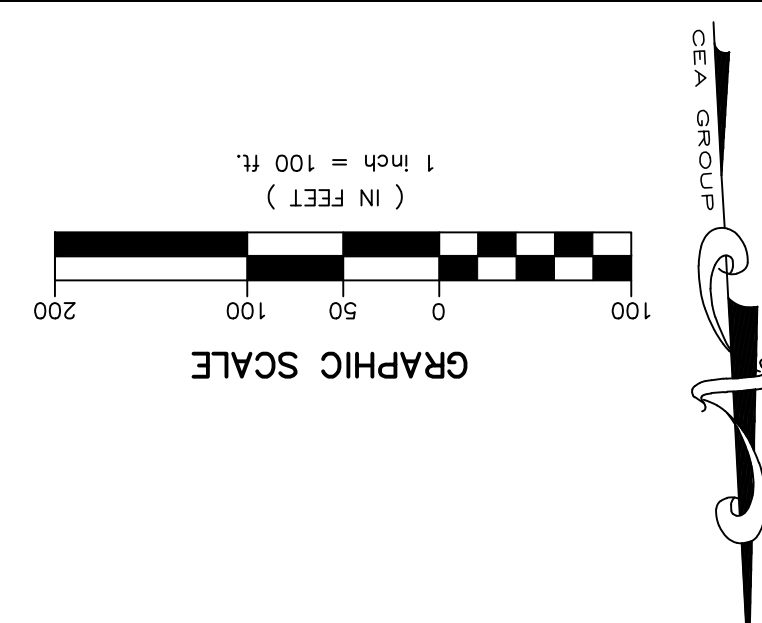
Filing
Filed and recorded in the office of the County Clerk of El Paso County, Texas, this _____ day
of _____, 2020, in File No. _____ of the Plat Records.

County Clerk _____ By Deputy _____
Subdivision improvement plans prepared by and
under the supervision of C&A Group, Inc.,
with the current Texas Board of Professional Land
Survey Professional and Technical Standards.

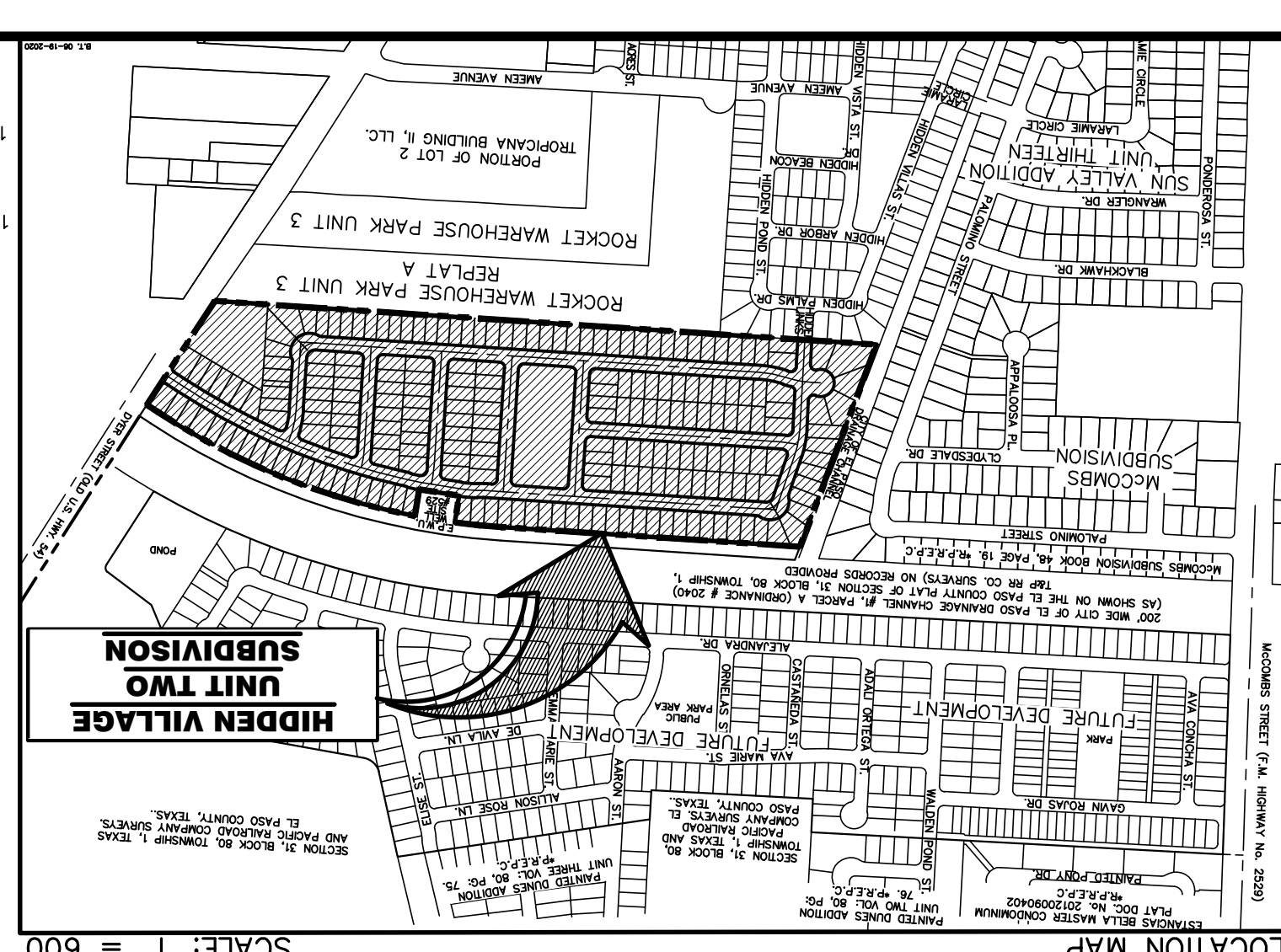
CONTACT: JORGE L. AZCARATE, P.E.
Licensed Professional Engineer
Bento Barragan TX, R.P.L.S. No. 5615
Texas License No. 85075

CONTACT: BENITO BARRAGAN, R.P.L.S.
Phone (915) 591-5709 Fax (915) 591-5706
10950 Pelicane Dr. Bldg. F - El Paso TX 79935
LAND PLANNING & LAND SURVEYING
Barragan & Associates Inc.
SURVEYOR

CONTACT: JORGE L. AZCARATE, P.E.
Texas Registered Engineering Firm F-4564
www.ceagroup.net
C&A Group
Engineer
813 N. Kansas St.
Suite 300
El Paso, TX 79902
915.544.5232



1. THIS IS TO CERTIFY THAT WATER AND SEWER SERVICES WILL BE PROVIDED TO HIDDEN VILLAGE UNIT TWO SUBDIVISION BY THE EL PASO WATER UTILITIES/PUBLIC SERVICE BOARD IN ACCORDANCE WITH THEIR RULES AND REGULATIONS AND WITH SECTION 16.43 OF THE TEXAS WATER CODE. WATER AND SEWER SERVICES WILL BE EXTENDED TO THE SUBDIVISION FROM EXISTING FACILITIES LOCATED ON DYER ROAD AND WILL BE CONSTRUCTED TO SERVE THE SUBDIVISION.
2. TAX CERTIFICATE(S) FOR THIS SUBDIVISION ARE FILED IN THE OFFICE OF THE COUNTY CLERK, DEED AND RECORD SECTION.
3. RESTRICTIVE COVENANTS FOR THIS SUBDIVISION ARE FILED IN THE OFFICE OF THE COUNTY CLERK, DEED AND RECORD SECTION.
4. INTERIOR LOT CORNERS WILL BE SET UP UPON COMPLETION OF CONSTRUCTION OF ROADWAYS AND UTILITIES.
5. U.S. POSTAL SERVICE DELIVERY WILL BE PROVIDED THROUGH NEIGHBORHOOD DELIVERY AND COLLECTION BOX UNITS.
6. THIS SUBDIVISION LIES WITHIN ZONE "C" AS DESIGNATED IN L.O.M.R. NUMBER 18-06-0885F-480214, LAST REVISION DATE 06-12-2018.
7. © DENOTES PROPOSED MONUMENT (NOT IN PLACE AS OF DATE OF PREPARATION). LOCATION CONTACT CITY OF EL PASO.
8. Δ DENOTES EXISTING CITY MONUMENT.
9. ALL EASEMENTS SHALL BE TEN (10) FEET UNLESS OTHERWISE NOTED (10' U.E.).
10. ALL DEVELOPED STORM WATER RUNOFF DISCHARGE VOLUMES SHALL BE RETAINED MUNICIPAL CODE 19.0101A AND D.M. 11.1.
11. DEED REFERENCE: VOLUME 1176, PAGE 504 AND INST. NO. 2019004449, DEED RECORDS OF EL PASO COUNTY, TEXAS.



BENCHMARK:
MOUNTAIN MONUMENT
ELEVATION: 3939.32' (NAVD 88)
9600 SIMS DRIVE, EL PASO TEXAS, 79925
YSLTA INDEPENDENT SCHOOL DISTRICT
SCHOOL DISTRICT

THE NORTH AMERICAN VERTICAL DATUM IS ELEVATION = 3939.32' (NAVD 88).
P.R.E.P.C. = PLAT RECORDS OF EL PASO COUNTY, TEXAS
P.P.R.E.P.C. = REAL PROPERTY RECORDS OF EL PASO COUNTY, TEXAS

WARNING! BEFORE YOU DIG
CALL 811

UTILITY LOCATOR SERVICES

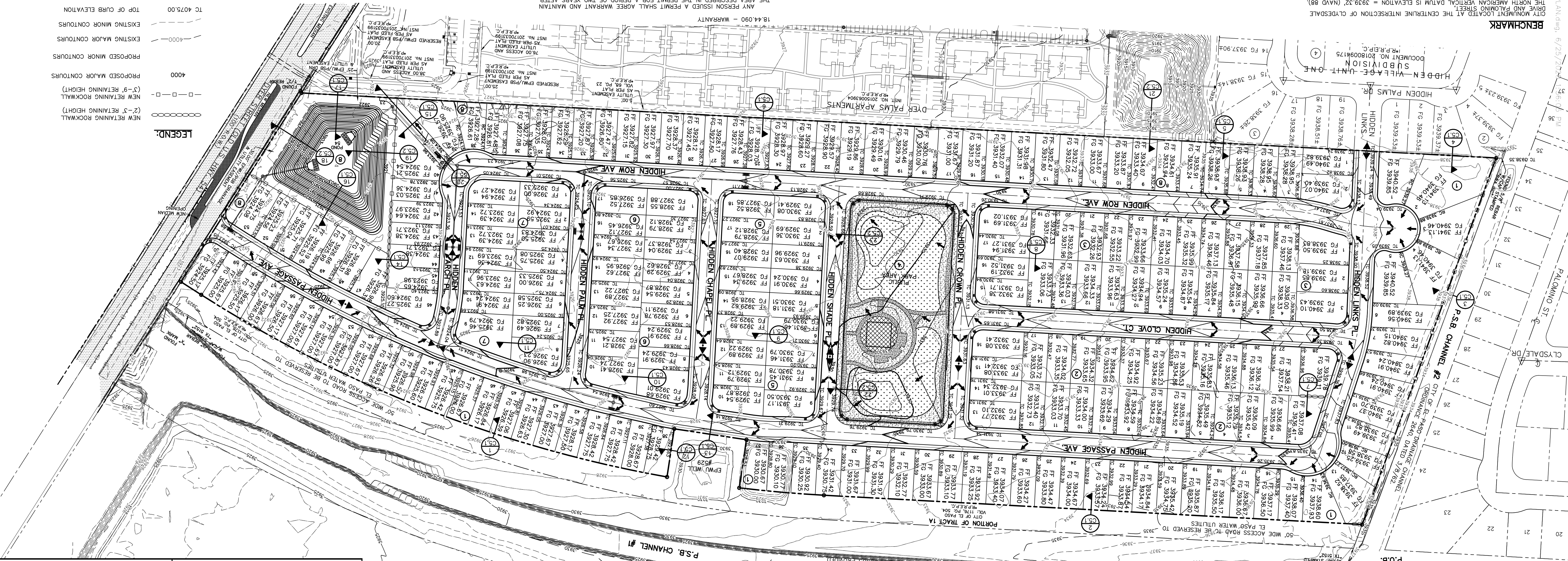
EL PASO ELECTRIC COMPANY (915) 543-5720	EL PASO WATER UTILITIES (915) 544-5244	EL PASO ENERGY CORPORATION (915) 496-5244
MCI-WORK (800) 772-1123	TIME WARNER COMMUNICATIONS (915) 680-7200	TEKSA GAS SERVICE (800) 545-0055
AT&T (800) 552-3786	UTS SPRINT TELECOM (800) 521-0579	

FOR FIELD LOCATING EXISTING UTILITIES

REFERENCES - BENCHMARKS

CITY MONUMENT LOCATED AT THE INTERSECTION OF CLYDEDALE DRIVE AND PALMWOOD STREET, THE NORTH AMERICAN VERTICAL DATUM IS ELEVATION = 3939.32 (NAD 88).

DATE: _____ BY: _____



NOTES:

- RETAINING WALLS SHALL BE CONSTRUCTED FOR VERTICAL GRADES GREATER THAN 2'-FEET.
- SLOPED AREAS SHALL BE MAINTAINED BY THE PROPERTY OWNERS.
- ALL REMAINING WALLS SPECIFIED TO BE CONSTRUCTED BY DEVELOPER.
- RETAINING ROCKWALLS (RETAINING PORTIONS ONLY) IN EXCESS OF 4' HIGH TO BE SHALL BE BUILT BY DEVELOPER.
- DEVELOPER SHALL COMPLY WITH SECTION 13.08.17 (EXCESSIVE PAYING CUTS) OF THE EL PASO MUNICIPAL CODE.
- IMPROVEMENTS SHALL NOT BE PLACED ON SIDEWALK (NDBOU), SIGNS, POLES, FIRE HYDRANTS, (ETC.) REFER TO STANDARD DETAIL SHEETS.
- IMPROVEMENTS SHALL COMPLY WITH T.A.S./A.D.A.
- POSTAL SERVICE DELIVERY WILL BE PROVIDED THROUGH NEIGHBORHOOD DELIVERY AND COLLECTION BOX UNITS.
- THIS SUBDIVISION LIES WITHIN ZONE "C" AS DESIGNATED IN PANEL NO. #80214-0015, DATED JUNE 12, 2018.
- ALL DEVELOPED AND HISTORIC STORM WATER RUNOFF SHALL BE ADDRESSED WITHIN THE SUBDIVISION LIMITS AND SHALL COMPLY WITH ALL PROVISIONS OF DISCRETE AND ODD 1111 COMPENSATORY STORM WATER STORAGE EQUAL TO FILL IN CHANNEL AS APPROVED PLANS. THE CHANNEL SHALL BE TAKEN TO STABILIZE THE WORK AREA DURING CONSTRUCTION TO MINIMIZE EROSION AS SHOWN ON THE PLANS. INCLUDING BED AND BANKS, SHALL ALWAYS BE RESTORED/REESTABLISHED IMMEDIATELY AFTER CONSTRUCTION. A TEMPORARY CROSSING SHALL BE REGULATED BY CONSTRUCTION VEHICLES.
- MATERIAL STOCKPIPING SHALL NOT BE ALLOWED WHEN GRADING OPERATIONS ARE UNDERWAY AND SHALL BE LIMITED TO TEN FEET HIGH WHEN GRADING OPERATIONS ARE UNDERWAY AND SHALL BE LIMITED TO SEVEN CONSECUTIVE CALENDAR DAYS.
- A TRAFFIC CONTROL PERMIT SHALL BE OBTAINED IF THE GRADING OPERATION WILL IMPACT TRAFFIC.
- ANY TRAFFIC CONTROL PERMIT SHALL NOT BE ALLOWED UNLESS APPROVED IN WRITING BY THE PERMIT OFFICIAL IN ADVANCE OF SUCH USE.
- RECORDARY EQUIPMENT SHALL NOT BE ALLOWED UNLESS APPROVED IN ADVANCE OF SUCH USE.
- NO TRANSFORMERS, PESTALS OR JUNCTION BOXES SHALL BE INSTALLED WITHIN DAY IN ADVANCE OF ANY GRADING WORK, ADDITIONAL ACTIVITY.
- RECORDARY EQUIPMENT SHALL NOT BE ALLOWED UNLESS APPROVED IN ADVANCE OF SUCH USE.
- NO TRANSFORMERS, PESTALS OR JUNCTION BOXES SHALL BE INSTALLED WITHIN DAY IN ADVANCE OF ANY GRADING WORK, ADDITIONAL ACTIVITY.
- RECORDARY EQUIPMENT SHALL NOT BE ALLOWED UNLESS APPROVED IN ADVANCE OF SUCH USE.
- NO TRANSFORMERS, PESTALS OR JUNCTION BOXES SHALL BE INSTALLED WITHIN DAY IN ADVANCE OF ANY GRADING WORK, ADDITIONAL ACTIVITY.

18.44.200 - ENGINEERING CONTROLS FOR GRADING
(Ord. No. 17516, § 1, 3-29-2011)

ANY PERSON ISSUED A PERMIT SHALL AGREE WARRANT AND MAINTAIN THE AREA DESCRIBED IN THE PERMIT FOR A PERIOD OF TWO YEARS AFTER THE PERMIT IS CLOSED BY THE CITY OF EL PASO. THE PERMIT SHALL BE REVOKED BY THE CITY OF EL PASO IN THE EVENT OF A VIOLATION OF THE PERMIT OR IF THE PERMIT IS NOT MAINTAINED IN ACCORDANCE WITH THE APPROVED GSP. WHICHEVER FIRST OCCURS (THE "WARRANTY" OR "WARRANTY PERIOD"), THE CITY MAY CONDUCT THE WORK AND RECOVER THE MAINTENANCE AND REPAIRS OF THE PERMIT OR HOLDER. FAILURE OF THE PERMIT HOLDER TO CORRECT THE WORK SHALL CONSTITUTE A FAILURE TO COMPLY WITH THE PROVISIONS OF THIS CHAPTER. (Ord. No. 17516, § 1, 3-29-2011)

18.44.200 - ENGINEERING CONTROLS FOR GRADING
(Ord. No. 17516, § 1, 3-29-2011)

1. NO ON-SITE PROCESSING OF MATERIAL FOR COMMERCIAL OR RETAIL USE SHALL BE ALLOWED. ON-SITE PROCESSING OF MATERIALS WILL BE USED FOR PREPARATION OR CONSTRUCTION OF IMPROVEMENTS WITHIN THE SITE.

2. WORK SHALL BE CONDUCTED IN A MANNER THAT PREVENTS EROSION AND DOES NOT OBSTRUCT, IMPED OR INTERFERE WITH THE FLOW OF STORMWATER IN IMPROVED DITCHES, CHANNELS OR CANALS IN SUCH A MANNER AS TO CAUSE FLOODING WHERE IT WOULD NOT OTHERWISE OCCUR.

3. CONSTRUCTION EQUIPMENT AND PERSON SHALL BE KEPT OUT OF ADJACENT AREAS UNLESS NECESSARY FOR THE PERFORMANCE OF WORK.

4. WHERE A BRIDGEWAY WAY WILL BE CROSSED BY CONSTRUCTION VEHICLES, A TEMPORARY CROSSING SHALL BE REGULATED BY CONSTRUCTION VEHICLES.

5. MATERIAL STOCKPIPING SHALL NOT BE ALLOWED WHEN GRADING OPERATIONS ARE UNDERWAY AND SHALL BE LIMITED TO SEVEN CONSECUTIVE CALENDAR DAYS.

6. A TRAFFIC CONTROL PERMIT SHALL BE OBTAINED IF THE GRADING OPERATION WILL IMPACT TRAFFIC.

7. ANY TRAFFIC CONTROL PERMIT SHALL NOT BE ALLOWED UNLESS APPROVED IN WRITING BY THE PERMIT OFFICIAL IN ADVANCE OF SUCH USE.

8. RECORDARY EQUIPMENT SHALL NOT BE ALLOWED UNLESS APPROVED IN ADVANCE OF SUCH USE.

9. NO TRANSFORMERS, PESTALS OR JUNCTION BOXES SHALL BE INSTALLED WITHIN DAY IN ADVANCE OF ANY GRADING WORK, ADDITIONAL ACTIVITY.

10. REPAIRS TO ANY DAMAGE TO EXISTING UTILITIES SHALL BE COMPLETED IMMEDIATELY UPON NOTICE OF SUCH DAMAGE. THE PERMITTEE SHALL BE RESPONSIBLE FOR THE REPAIRS AND SHALL COMPLY WITH ALL APPLICABLE REGULATORY AND CITY ORDINANCES.

11. WHERE POSSIBLE AND PRACTICABLE, UTILITIES SHALL NOT BE PLACED WITHIN THE SUBDIVISION LIMITS AND SHALL COMPLY WITH ALL PROVISIONS OF DISCRETE AND ODD 1111 COMPENSATORY STORM WATER STORAGE EQUAL TO FILL IN CHANNEL AS APPROVED PLANS. THE CHANNEL SHALL BE TAKEN TO STABILIZE THE WORK AREA DURING CONSTRUCTION TO MINIMIZE EROSION AS SHOWN ON THE PLANS. INCLUDING BED AND BANKS, SHALL ALWAYS BE RESTORED/REESTABLISHED IMMEDIATELY AFTER CONSTRUCTION. A TEMPORARY CROSSING SHALL BE REGULATED BY CONSTRUCTION VEHICLES.

12. ALL DEVELOPED AND HISTORIC STORM WATER RUNOFF SHALL BE ADDRESSED WITHIN THE SUBDIVISION LIMITS AND SHALL COMPLY WITH ALL PROVISIONS OF DISCRETE AND ODD 1111 COMPENSATORY STORM WATER STORAGE EQUAL TO FILL IN CHANNEL AS APPROVED PLANS. THE CHANNEL SHALL BE TAKEN TO STABILIZE THE WORK AREA DURING CONSTRUCTION TO MINIMIZE EROSION AS SHOWN ON THE PLANS. INCLUDING BED AND BANKS, SHALL ALWAYS BE RESTORED/REESTABLISHED IMMEDIATELY AFTER CONSTRUCTION. A TEMPORARY CROSSING SHALL BE REGULATED BY CONSTRUCTION VEHICLES.

13. MATERIAL STOCKPIPING SHALL NOT BE ALLOWED WHEN GRADING OPERATIONS ARE UNDERWAY AND SHALL BE LIMITED TO SEVEN CONSECUTIVE CALENDAR DAYS.

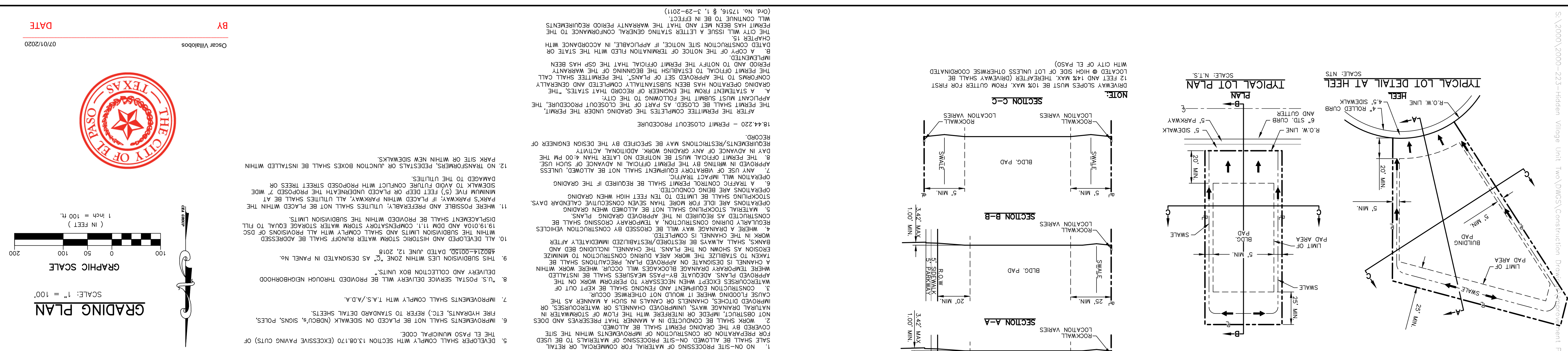
14. A TRAFFIC CONTROL PERMIT SHALL BE OBTAINED IF THE GRADING OPERATION WILL IMPACT TRAFFIC.

15. ANY TRAFFIC CONTROL PERMIT SHALL NOT BE ALLOWED UNLESS APPROVED IN WRITING BY THE PERMIT OFFICIAL IN ADVANCE OF SUCH USE.

16. RECORDARY EQUIPMENT SHALL NOT BE ALLOWED UNLESS APPROVED IN ADVANCE OF SUCH USE.

17. NO TRANSFORMERS, PESTALS OR JUNCTION BOXES SHALL BE INSTALLED WITHIN DAY IN ADVANCE OF ANY GRADING WORK, ADDITIONAL ACTIVITY.

18. REPAIRS TO ANY DAMAGE TO EXISTING UTILITIES SHALL BE COMPLETED IMMEDIATELY UPON NOTICE OF SUCH DAMAGE. THE PERMITTEE SHALL BE RESPONSIBLE FOR THE REPAIRS AND SHALL COMPLY WITH ALL APPLICABLE REGULATORY AND CITY ORDINANCES.



PROJECT TITLE: **HIDDEN VILLAGE UNIT TWO SUBDIVISION IMPROVEMENTS**

SCALE: 1" = 100'

ENGINEER'S SEAL:

CEEG ENGINEERING FIRM F-4564

813 N. Kansas St., Suite 300, El Paso, TX 79902
915.544.5232
www.ceegrouting.net

CITY MONUMENT LOCATED AT THE INTERSECTION OF CLYDEDALE DRIVE AND PALMWOOD STREET, THE NORTH AMERICAN VERTICAL DATUM IS ELEVATION = 3939.32 (NAD 88).

DATE: _____ BY: _____

REVISIONS:

UTILITY LOCATOR SERVICES

EL PASO ELECTRIC COMPANY (915) 543-5720

EL PASO WATER UTILITIES (915) 544-5244

EL PASO ENERGY CORPORATION (915) 496-5244

MCI-WORK (800) 772-1123

TIME WARNER COMMUNICATIONS (915) 680-7200

TEKSA GAS SERVICE (800) 545-0055

AT&T (800) 552-3786

UTS SPRINT TELECOM (800) 521-0579

GRADING PLAN

SHEET NO. 03.1

DATE: 07/20/2020

BY: Oscar Villalobos

S:\2000\2000-223-Hidden Village Unit Two\DWGS\Construction Plans\03.1-GRADING PLAN.dwg 6/25/2020 1:57:25 PM

480214-0015, DATED JUNE 12, 2018. THIS SUBDIVISION LIES WITHIN ZONE "C" AS DESIGNATED IN PANEL NO. #80214-0015, DATED JUNE 12, 2018.

FLOOD ZONE:

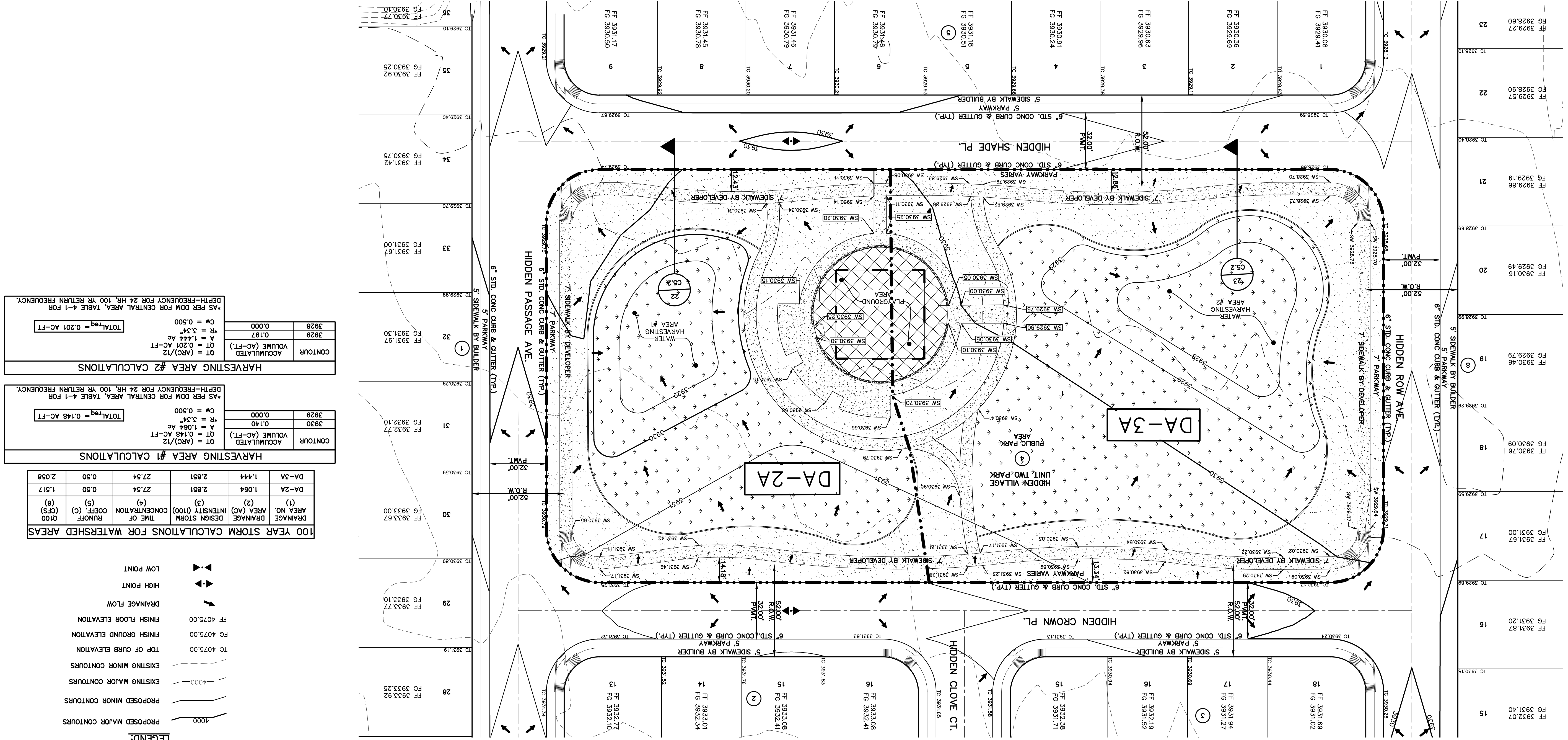
BENCHMARK: THE NORTH AMERICAN VERTICAL DATUM IS ELEVATION = 3939.32 (NAD 88). DRIVE AND PALMWOOD STREET.

PARK DESIGN PLAN



SCALE: 1" = 30'

DATE 07/01/2020 BY Oscar Villalobos



HARVESTING AREA #2 CALCULATIONS

CONTOUR	3928
ACCUMULATED VOLUME (AC-FT.)	0.000
QT = (ARC)/12	0.197
QT = 0.201 AC-FT	
A = 1.444 AC	
R = 3.34	
CM = 0.500	
*AS PER DDM FOR CENTRAL AREA, TABLE 4-1 FOR DEPTH-FREQUENCY FOR 24 HR, 100 YR RETURN FREQUENCY.	
TOTALreq = 0.201 AC-FT	

HARVESTING AREA #1 CALCULATIONS

CONTOUR	3929
ACCUMULATED VOLUME (AC-FT.)	0.000
QT = (ARC)/12	0.140
QT = 0.148 AC-FT	
A = 1.064 AC	
R = 3.34	
CM = 0.500	
*AS PER DDM FOR CENTRAL AREA, TABLE 4-1 FOR DEPTH-FREQUENCY FOR 24 HR, 100 YR RETURN FREQUENCY.	
TOTALreq = 0.148 AC-FT	

100 YEAR STORM CALCULATIONS FOR WATERSHED AREAS

AREA NO.	AREA (AC)	DESIGN STORM INTENSITY (100)	TIME OF CONCENTRATION (H)	COEFF. (C)	Q100 (CFS)	(B)	(A)
DA-3A	1.444	2.851	27.54	0.50	2.058		
DA-2A	1.064	2.851	27.54	0.50	1.517		

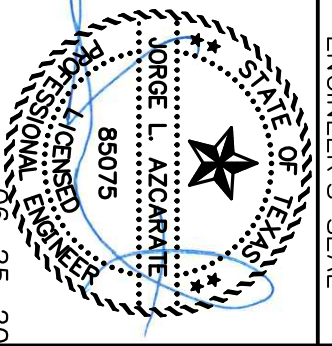
- LEGEND:**
- PROPOSED MAJOR CONTOURS 4000
 - EXISTING MAJOR CONTOURS 4000
 - EXISTING MINOR CONTOURS
 - TOP OF CURB ELEVATION TO 4075.00
 - FINISH GROUND ELEVATION FG 4075.00
 - FINISH FLOOR ELEVATION FF 4075.00
 - DRAINAGE FLOW
 - HIGH POINT
 - LOW POINT

UTILITY LOCATOR SERVICES

EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5500
MCI SURVEILLANCE	(800) MCI-WORK
TIME WARNER COMMUNICATIONS	(915) 772-1123
TEXAS GAS SERVICE	(915) 680-7200
AT&T	(800) 456-6000
U.S. SPRINT TELECOMM	(800) 452-3786
	(800) 521-0579

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 813 N. Kansas St.
 Suite 300
 El Paso, TX 79902
 915.544.5232
 www.ceagroup.net

REFERENCES - BENCHMARKS

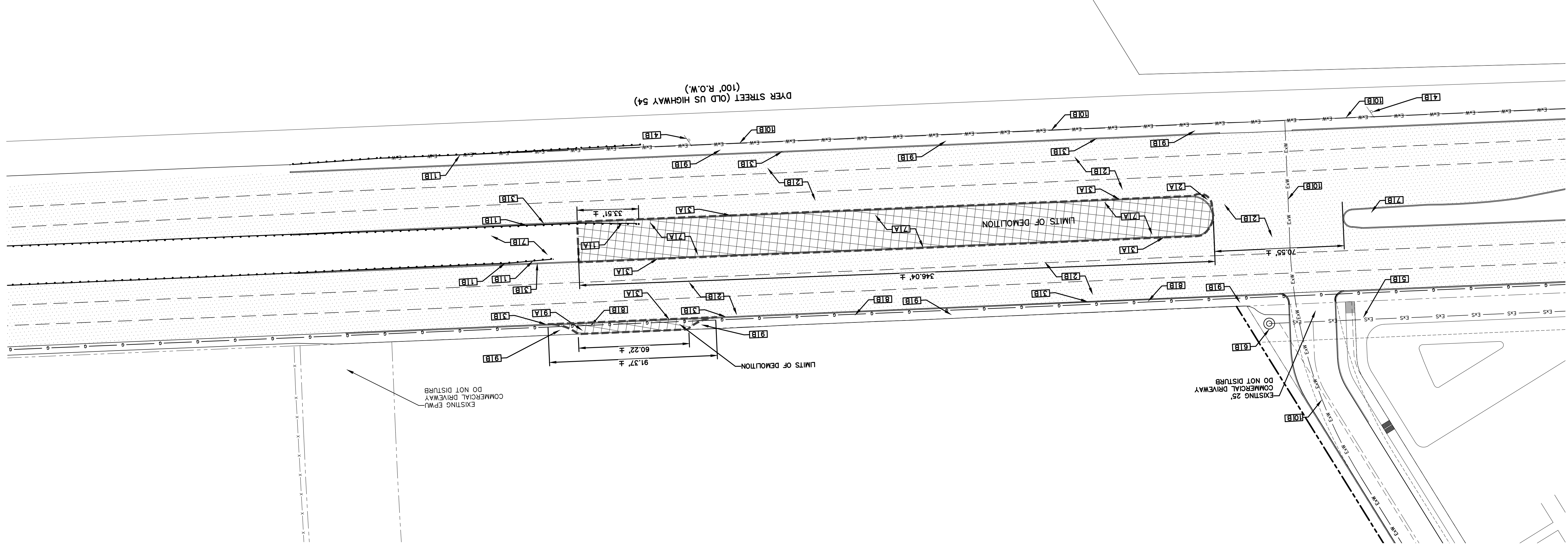
DATE	REVISIONS	BY

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UTILITY LOCATOR SERVICES

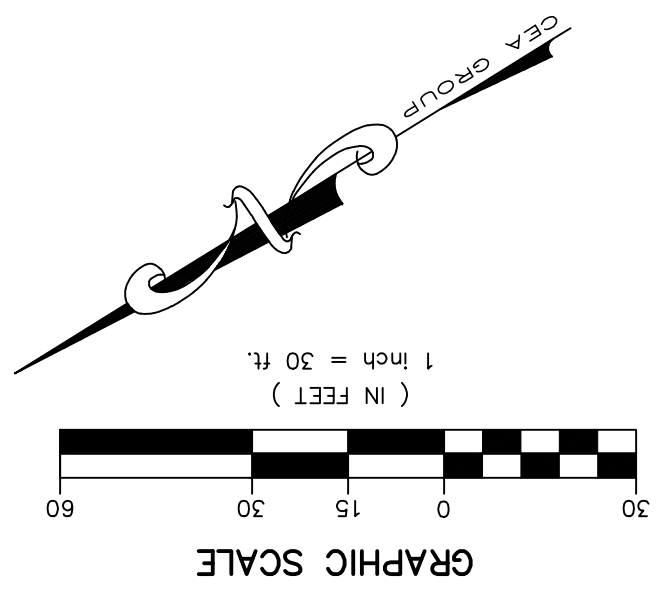
EL PASO ELECTRIC COMPANY	(915) 543-5720
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SBC	(800) 545-6000
AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579



- NOTES:**
1. ALL SUITABLE EXCAVATED MATERIALS SHALL BE UTILIZED, INsofar AS PRACTICAL IN CONSTRUCTING THE REQUIRED SECTIONS OR AS DIRECTED BY AN ENGINEER. UNSUITABLE EXCAVATION AND EXCAVATION IN EXCESS OF THAT NEEDED SHALL BECOME THE PROPERTY OF CONTRACTOR TO BE DISPOSED OF OFF-SITE, AS APPROVED BY THE ENGINEER.
 2. CONTRACTOR SHALL INSTALL TEMPORARY TRAFFIC SIGNAGE.
 3. CONTRACTOR SHALL MAINTAIN ALL WORK WITHIN PROJECT LIMITS.
 4. CONTRACTOR TO REMOVE ALL LANDSCAPING ALONG PROJECT, EXCEPT AS NOTED.
 5. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING IMPROVEMENTS IN THE PROJECT AREA AND ITS VICINITY. ANY DAMAGE RESULTING FROM CONTRACTOR'S WORK SHALL BE REPAIRED TO ITS ORIGINAL CONDITION BY THE CONTRACTOR, AT NO ADDITIONAL EXPENSE TO THE OWNER.
 6. DEMOLITION LIMITS ARE APPROXIMATE AND MUST BE COORDINATED WITH PROPOSED IMPROVEMENTS.



BY Oscar Villalobos
 DATE 07/01/2020



KEYED NOTES

10	EXISTING WATER LINE
9	EXISTING SIDEWALK
8	EXISTING GAS LINE
7	EXISTING RAISED MEDIAN IMPROVEMENTS
6	EXISTING SEWER MANHOLE
5	EXISTING SEWER LINE
4	EXISTING SIGNS
3	EXISTING CURB AND GUTTER
2	EXISTING PAVEMENT
1	EXISTING GUARRAIL

A	COMPLETELY REMOVE AND PROPERLY DISPOSE OFF-SITE, WITHIN LIMITS OF DEMOLITION
B	REMAIN UNDISTURBED (TO BE PROTECTED)
C	TO BE MODIFIED
D	TO BE RELOCATED

Point #	Northing	Easting
1	10715659.2329	47032.7823
2	10715567.2800	416974.0213
3	10715569.9176	416969.8918
4	10715639.1390	417014.0926
5	10715617.8827	417014.2390
6	10715619.8922	416987.5650
7	10715541.3909	416937.3524
8	10715487.9171	416913.3384
9	10715453.1738	416889.7394
10	10715371.7857	416849.3724
11	10715377.1517	416840.9814
12	10715453.4669	416889.6737
13	10715498.7367	416911.4083
14	10715544.0884	416933.1434
15	10715622.5832	416983.3508
16	10715391.4600	416789.4499
17	10715779.3447	417037.0199

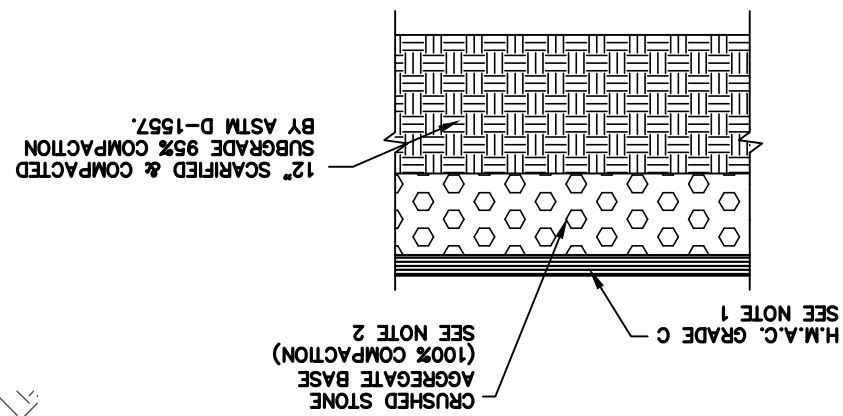
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	195.00'	57.90'	29.16'	57.68'	N24°04'04"E	017°00'40"
C2	195.00'	58.77'	29.61'	58.54'	N24°11'42"E	017°16'01"
C3	200.00'	50.30'	25.28'	50.16'	S25°36'13"W	014°24'32"
C4	200.00'	50.30'	25.28'	50.17'	S25°37'26"W	014°24'38"
C5	35.00'	33.17'	17.95'	31.94'	S00°15'45"W	054°18'11"

COORDINATE TABLE

CURVE TABLE

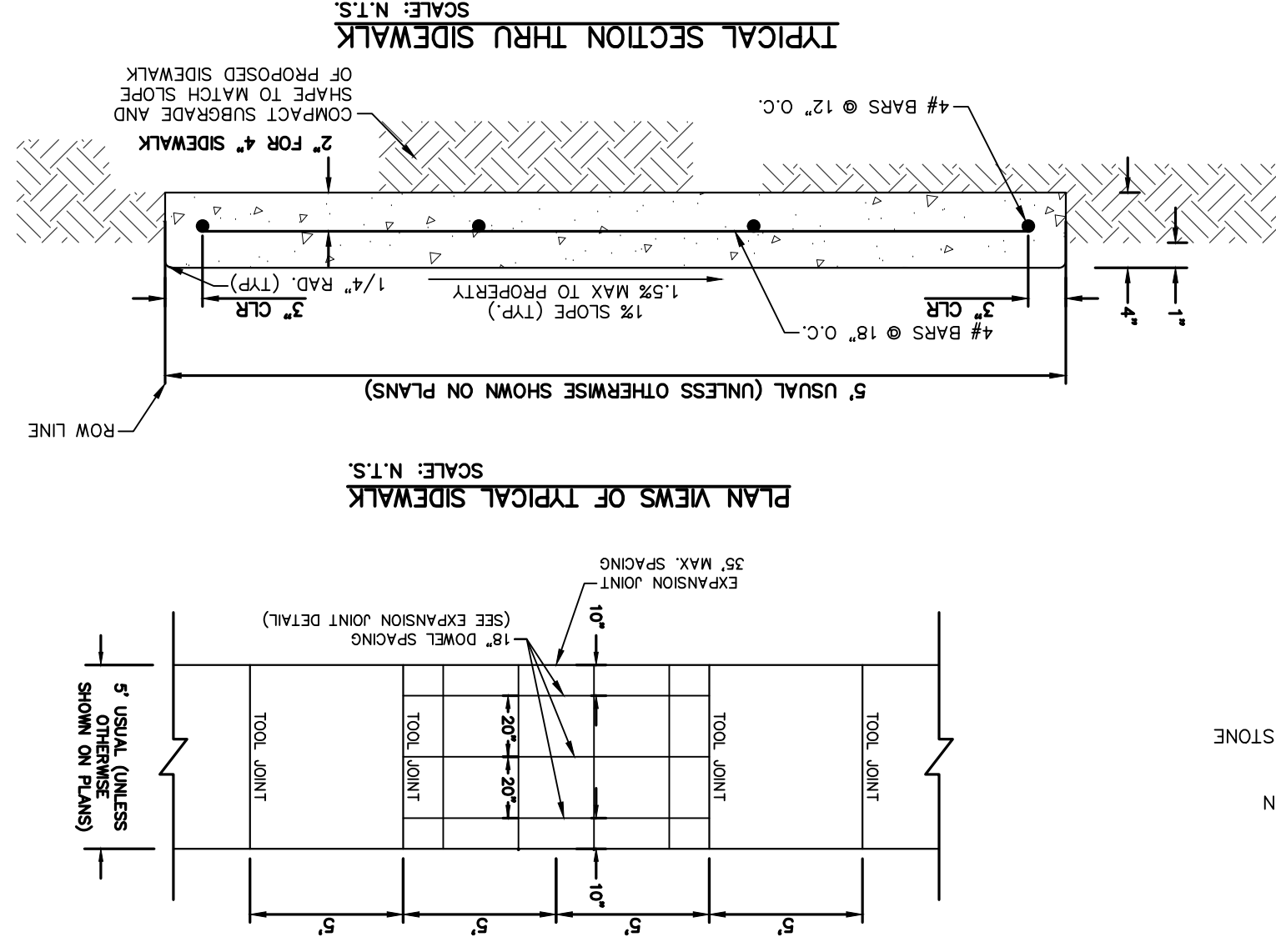
NOTES:

- HMAC PAVEMENT THICKNESS SHALL MATCH EXISTING CONDITIONS AND SHALL COMPLY WITH ITEM 340 OF STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS, AND BRIDGES, 2014.
- CRUSHED STONE BASE COURSE THICKNESS SHALL MATCH EXISTING SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS, AND BRIDGES, 2014.
- CONDITIONS AND SHALL COMPLY WITH ITEM 247 OF STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS, AND BRIDGES, 2014.
- IN LOCATIONS WHERE CLAY SOILS ARE PRESENT, THE SITE WORK STRUCTURES SHALL BE SUPPORTED BY A MINIMUM TWELVE TO EIGHTEEN (12-18") INCHES OF TYPE C EMBANKMENT.



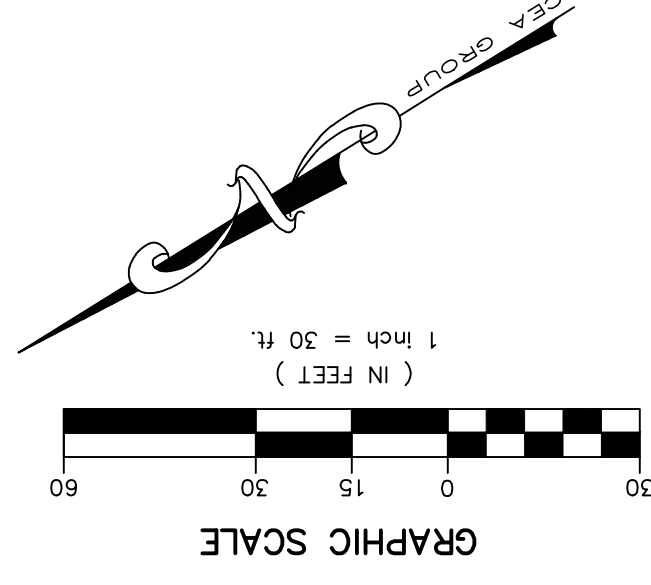
NOTES:

- PLACEMENT OF SIGNS, AS SHOWN ON THESE PLANS, ARE TO BE IN ACCORDANCE WITH TxDOT AND MUTCD STANDARDS.
- NEW H.M.A.C. SHALL CONSIST OF 3" H.M.A.C. (TYPE D), 10" CRUSHED STONE BASE COURSE AND 12" COMPACTED SUBGRADE.

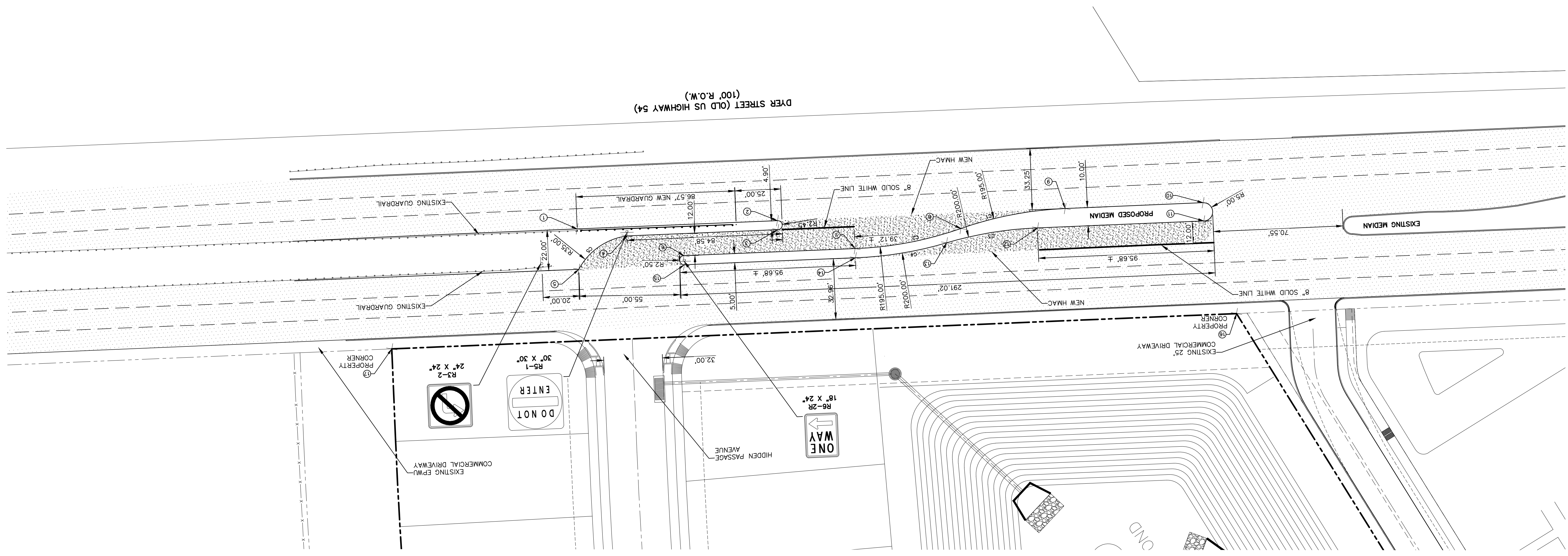


NOTES:

- THESE DETAILS SHALL APPLY WHEN CONSTRUCTING SIDEWALK WITHIN TxDOT R.O.W.
- REINFORCING BARS SHALL BE #4 @ 12" SPACING. LAP SPLICES SHALL BE A MINIMUM OF SIX (6") INCHES, MEASURED FROM THE ENDS OF REINFORCING BARS.
- SMOOTH DOWEL BARS SHALL BE DELIVERED TO THE JOB SITE IN PREFABRICATED DOWEL ASSEMBLIES. THE ENTIRE DOWEL BAR SHALL BE COATED WITH A MATERIAL WHICH WILL PREVENT BONDING TO CONCRETE.
- PLACEMENT OF REINFORCING STEEL SHALL BE STOPPED APPROXIMATELY FOUR (4") INCHES FROM THE DOWEL BAR ASSEMBLY.
- DOWEL BAR PLACEMENT SHALL MEET THE REQUIREMENTS OF ITEM 360, CONCRETE PLACEMENT.
- IN LOCATIONS WHERE CLAY SOILS ARE PRESENT, THE SITE WORK STRUCTURES SHALL BE SUPPORTED BY A MINIMUM TWELVE TO EIGHTEEN (12-18") INCHES OF TYPE C EMBANKMENT.



BY Oscar Villalobos
DATE 07/01/2020



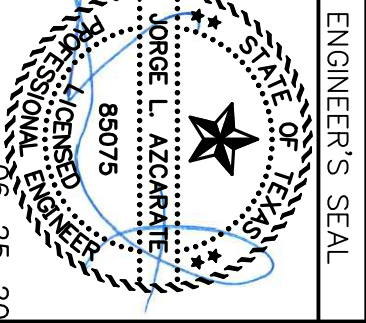
SHEET NO. SHEET TITLE PROJECT TITLE HIDDEN VILLAGE UNIT TWO SUBDIVISION IMPROVEMENTS
 SCALE Horizontal: Contour Interval: N/A Vertical: Vertical: Contour Interval: N/A
 DATE: APRIL 2020 DESIGN BY: R.F. DRAWN BY: R.F. CHKD. BY: J.L.A. APPVD. BY: J.L.A. JOB NO.: 2000-223
 ENGINEER'S SEAL: JORGE L. AZCARRATE 38075
 813 N. Kansas St. Suite 300 El Paso, TX 79902 915.544.5232 www.cesaengr.com
 TEXAS REGISTERED ENGINEERING FIRM F-4564
 CITY MONUMENT LOCATED AT THE CENTERLINE INTERSECTION OF CUYOGSALE DRIVE AND PALOMINO STREET. THE NORTH AMERICAN VERTICAL DATUM IS ELEVATION = 3939.32 (NAVD 88).
 REFERENCES - BENCHMARKS
 UTILITY LOCATOR SERVICES
 EL PASO ELECTRIC COMPANY (915) 543-5220
 EL PASO ENERGY CORPORATION (915) 496-5244
 EL PASO WATER UTILITIES (915) 594-5500
 MCI SURVEILLANCE (800) MCI-WORK
 TIME WARNER COMMUNICATIONS (915) 772-1123
 TEXAS GAS SERVICE (915) 680-7200
 SBC (800) 545-6000
 AT&T (800) 852-3786
 U.S. SPRINT TELECOMM (800) 521-0579
 REVISIONS
 DATE BY

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C3.4

PROJECT TITLE
HIDDEN VILLAGE UNIT TWO
 SUBDIVISION IMPROVEMENTS

SCALE
 Horizontal: Contour Interval: N/A
 DATE: APRIL 2020
 DESIGN BY: R.F.
 DRAWN BY: J.L.A.
 CHKD. BY: J.L.A.
 APPVD. BY: J.L.A.
 JOB No. 2000-223



cea
 TEXAS REGISTERED ENGINEERING FIRM F-4564
 813 N. Kansas St.
 Suite 300
 El Paso, TX 79902
 915.544.5232
 www.ceainc.com
 www.ceagroup.net

REFERENCES - BENCHMARKS

DATE	REVISIONS	BY

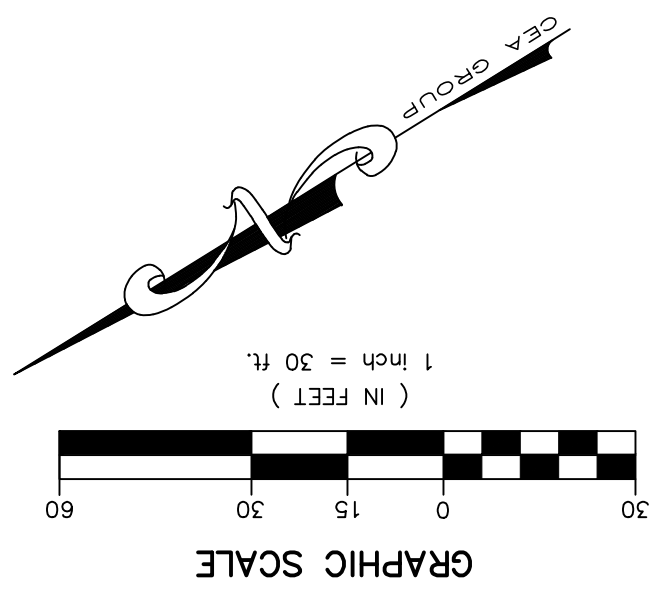
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FOR FIELD LOCATING EXISTING UTILITIES

UTILITY LOCATOR SERVICES	CONTACT
EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5500
MCI SURVEILLANCE	(800) MCI-WORK
TIME WARNER COMMUNICATIONS	(915) 772-1123
TEXAS GAS SERVICE	(915) 680-7200
SBC	(800) 545-6005
AIRTEL	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579

LEGEND:

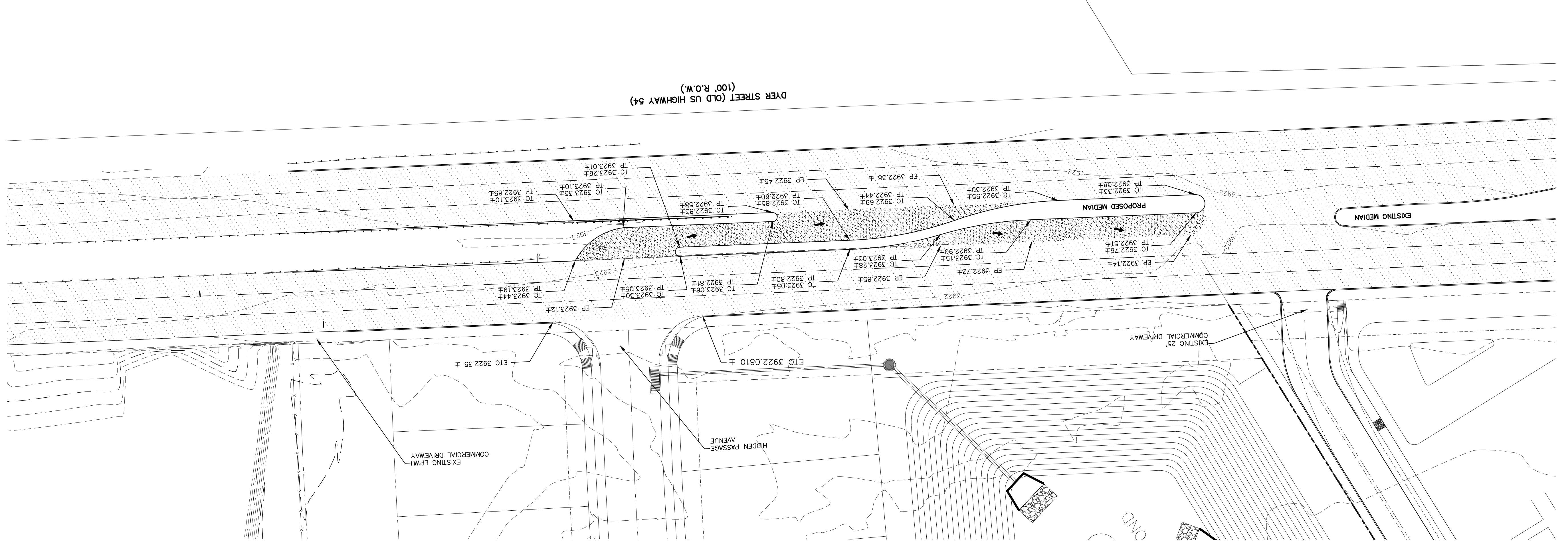
PROPOSED MAJOR CONTOURS	4000
PROPOSED MINOR CONTOURS	4000
EXISTING MAJOR CONTOURS	4000
EXISTING MINOR CONTOURS	4000
TOP OF CURB ELEVATION	TP 4075.00
PAVEMENT ELEVATION	EP 4075.00
EXISTING PAVEMENT ELEVATION	EP 4075.00
EXISTING TOP OF CURB ELEVATION	ETC 4075.00
NEW HMAC PAVEMENT STRUCTURE	[Pattern]
EXISTING HMAC PAVEMENT STRUCTURE	[Pattern]



BY Oscar Villalobos
 DATE 07/1/2020



NOTES:
 1. PROPOSED CURB AND PAVEMENT ELEVATIONS ARE TO MATCH AS CLOSE AS POSSIBLE TO EXISTING CURB AND PAVEMENT ELEVATIONS AND GRADES.



CONTOUR	VOLUME (AC-FT)	ACCUMULATED VOLUME (AC-FT)
3921	9.992	9.918
3920	9.992	9.918
3919	9.992	9.918
3918	9.992	9.918
3917	9.992	9.918
3916	9.992	9.918
3915	9.992	9.918
3914	9.992	9.918
3913	9.992	9.918
3912	9.992	9.918
3911	9.992	9.918
3910	9.992	9.918
3909	9.992	9.918
3908	9.992	9.918
3907	9.992	9.918
3906	9.992	9.918
3905	9.992	9.918
3904	9.992	9.918
3903	9.992	9.918

NO.	REQUIRED AVAILABLE	AVAILABLE	EXCESS
DA-1	7.852	7.852	0.000
DA-2	8.080	8.080	0.000
DA-3	10.033	10.033	0.000
DA-4	8.105	8.105	0.000
DA-5	6.693	6.693	0.000
DA-6	4.817	4.817	0.000
DA-7	7.675	7.675	0.000
DA-8	3.306	3.306	0.000
DA-9	0.527	0.527	0.000
DA-10	0.500	0.500	0.000

NOTE: THE HGL REFLECTS THE ELEVATION AS REQUIRED BY THE CITY OF EL PASO.
 HYDRAULIC GRADE LINE ELEVATION = 3917.33ft.
 CONTOUR 3917, ACCUMULATED VOLUME = 7.244 AC-FT
 CONTOUR 3918, ACCUMULATED VOLUME = 6.441 AC-FT
 HWSL = HGL + 01'
 HWSE = 6.655 AC-FT
 OT = 6.655 AC-FT
 AT = 39.85 AC
 CR = 3.34'
 CM = 0.600
 *AS PER DDM FOR CENTRAL AREA, TABLE 4-1 FOR
 DPM-FREQUENCY FOR 24 HR. 100 YR RETURN FREQUENCY.

DRAINAGE AREA NO.	AREA (AC)	DESIGN STORM INTENSITY (100)	TIME OF RUNOFF COEFF. (C)	(1)	(2)	(3)	(4)	(5)	(6)
DA-1	4.79	2.731	0.60	7.852	0.60	7.852	0.60	7.852	0.60
DA-2	4.88	2.760	0.60	8.080	0.60	8.080	0.60	8.080	0.60
DA-3	11.23	2.824	0.60	10.033	0.60	10.033	0.60	10.033	0.60
DA-4	4.76	2.841	0.60	8.105	0.60	8.105	0.60	8.105	0.60
DA-5	4.56	3.178	0.60	6.693	0.60	6.693	0.60	6.693	0.60
DA-6	2.51	3.197	0.60	4.817	0.60	4.817	0.60	4.817	0.60
DA-7	4.05	3.157	0.60	7.675	0.60	7.675	0.60	7.675	0.60
DA-8	1.59	3.465	0.60	3.306	0.60	3.306	0.60	3.306	0.60
DA-9	0.26	3.389	0.60	0.527	0.60	0.527	0.60	0.527	0.60
DA-10	1.475	4.133	0.50	0.500	0.50	0.500	0.50	0.500	0.50

REFERENCE: CITY OF EL PASO SUBDIVISION STANDARDS (JUNE 2008)
 (1) WATERSHED AREA IDENTIFICATION
 (2) RAINFALL INTENSITY, 100 YEAR STORM -> CENTRAL INTENSITY EQUATIONS (4-7)
 $L_{60} = (Tc + 26.090)^{0.0177} / 111.04$
 (3) TIME OF CONCENTRATION: $Tc = T(overland) + T(gutter)$
 (4) SINGLE FAMILY RESIDENTIAL = 0.60
 PAVEMENT AND ROOFTOPS = 0.95
 GENERAL OPEN SPACE = 0.50
 (5) $Q_{100} = C \times A \times I_{100}$
 (6) RATIONAL COEFFICIENT
 C = COMPUTED CONTRIBUTING WATERSHEDS AREA, ACRES
 I = RAINFALL INTENSITY, INCH PER HOUR

LOCATION	INLET DEPTH	VELOCITY	PRODUCT NUMBER	(1)	(2)	(3)	(4)
inlet #1	0.18	0.00	0.00	0.18	0.00	0.00	0.18
inlet #2	0.32	0.00	0.00	0.32	0.00	0.00	0.32
inlet #3	0.32	0.00	0.00	0.32	0.00	0.00	0.32
inlet #4	0.18	0.00	0.00	0.18	0.00	0.00	0.18
inlet #5	0.32	0.00	0.00	0.32	0.00	0.00	0.32
inlet #6	0.18	0.00	0.00	0.18	0.00	0.00	0.18
inlet #7	0.32	0.00	0.00	0.32	0.00	0.00	0.32
inlet #8	0.18	0.00	0.00	0.18	0.00	0.00	0.18
inlet #9	0.32	0.00	0.00	0.32	0.00	0.00	0.32
inlet #10	0.18	0.00	0.00	0.18	0.00	0.00	0.18

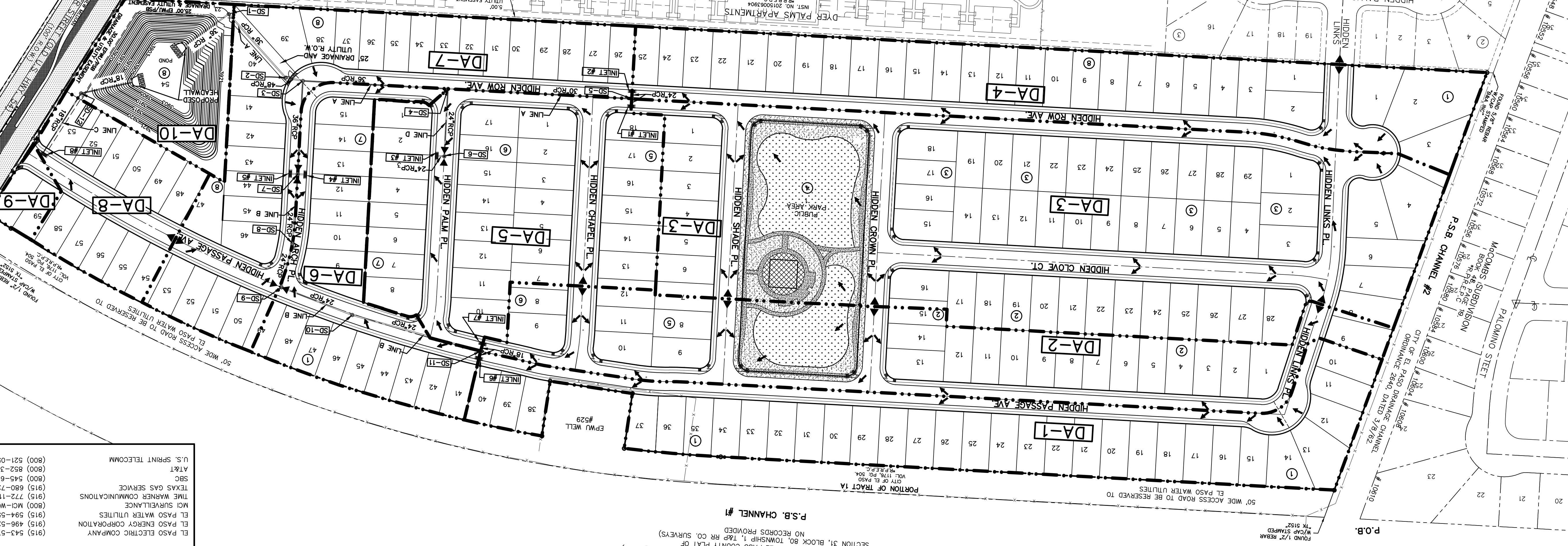
BY Oscar Villalobos
 DATE 07/01/2020



INLET #	WIDTH	CROSS SLOPE	DEPTH	AREA	P	R	n	S	Q	V	Total Q	Actual Depth	spread width	Actual Velocity
inlet #1	32	0.00	0.18	5.76	32.36	0.1780	0.013	0.0105	21.349	3.706	42.495	0.207	10.346	2.547
inlet #2	32	0.00	0.32	2.56	16.3232	0.1568	0.013	0.0105	10.573	3.406	3.306	0.321	16.065	2.582
inlet #3	32	0.00	0.18	5.76	32.36	0.1780	0.013	0.0105	16.138	2.802	32.123	0.318	15.894	2.564
inlet #4	32	0.00	0.32	2.56	16.3232	0.1568	0.013	0.0105	7.993	2.575	2.802	0.321	16.427	2.621
inlet #5	32	0.00	0.18	5.76	32.36	0.1780	0.013	0.0105	16.138	2.802	32.123	0.318	15.894	2.564
inlet #6	32	0.00	0.32	2.56	16.3232	0.1568	0.013	0.0105	7.993	2.575	2.802	0.321	16.427	2.621
inlet #7	32	0.00	0.18	5.76	32.36	0.1780	0.013	0.0105	16.138	2.802	32.123	0.318	15.894	2.564
inlet #8	32	0.00	0.32	2.56	16.3232	0.1568	0.013	0.0105	10.573	3.406	3.306	0.321	16.065	2.582
inlet #9	32	0.00	0.18	5.76	32.36	0.1780	0.013	0.0105	16.138	2.802	32.123	0.318	15.894	2.564
inlet #10	32	0.00	0.32	2.56	16.3232	0.1568	0.013	0.0105	7.993	2.575	2.802	0.321	16.427	2.621

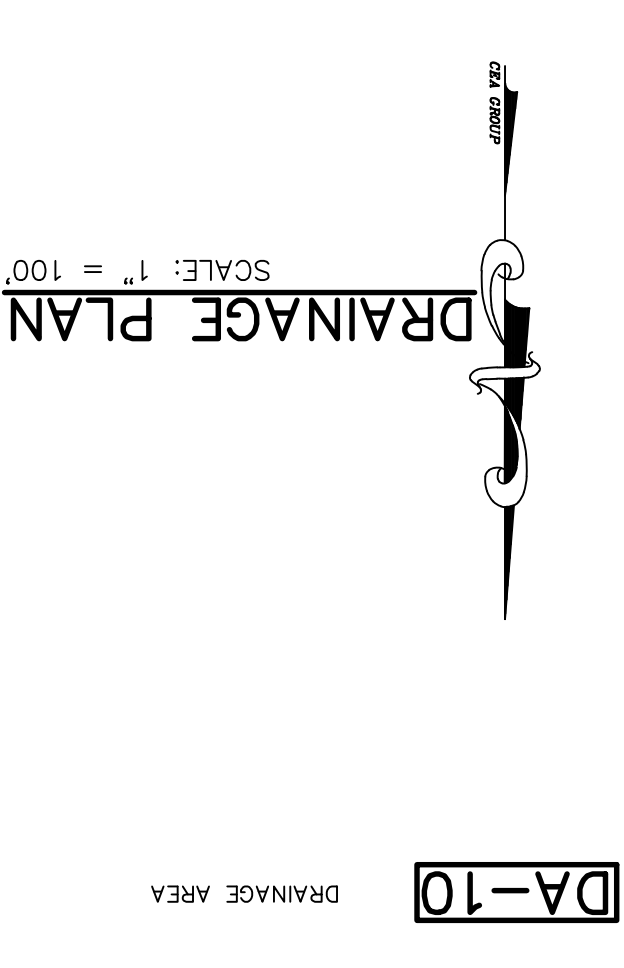
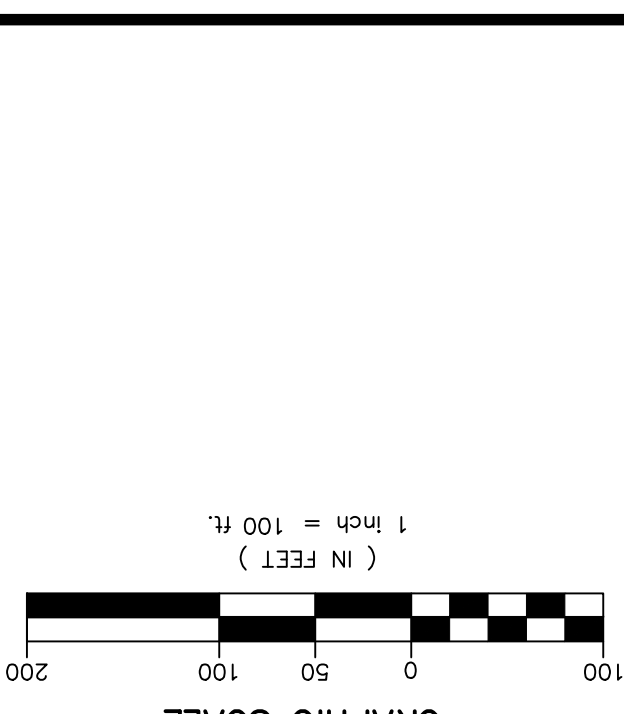
NO.	EXPECTED FLOW	ADDITIONAL FLOW	FLOW	INLET #	ORIGIN (CFS)	ODD (CFS)	TYPE OF INLET	ON GRADE	ORIGIN (CFS)	ODD (CFS)	TYPE OF INLET	
1	19.033	0	19.033	1	6.399 (FROM I-1)	12.671	1	ON GRADE	19.033	0	19.033	1
2	8.105	5.463 (TO I-2)	13.570	2	8.105 (FROM I-1)	12.671	2	ON GRADE	8.105	5.463 (TO I-2)	13.570	2
3	4.817	1.819 (FROM I-1 & I-7)	10.512	3	4.817 (FROM I-6)	19.267	3	ON GRADE	4.817	1.819 (FROM I-1 & I-7)	10.512	3
4	4.817	0.800 (FROM I-6)	5.617	4	4.817 (FROM I-6)	19.267	4	ON GRADE	4.817	0.800 (FROM I-6)	5.617	4
5	7.675	0.899 (FROM I-2)	8.574	5	7.675 (FROM I-2)	19.267	5	ON GRADE	7.675	0.899 (FROM I-2)	8.574	5
6	6.693	0	6.693	6	6.693 (FROM I-5)	12.671	6	ON GRADE	6.693	0	6.693	6
7	8.080	0	8.080	7	8.080 (TO I-3)	5.361	7	ON GRADE	8.080	0	8.080	7
8	3.306	0	3.306	8	3.306 (TO I-3)	5.361	8	ON GRADE	3.306	0	3.306	8

Q = A x V
 Q = A x 1.48 x R^{1.486} x S^{0.486}
 AVAILABLE FLOW CAPACITY SHOWN AT ON-GRADE INLETS REFLECTS CAPACITIES WITH INLET GRADE EFFICIENCIES.



UTILITY LOCATOR SERVICES
 EL PASO ELECTRIC COMPANY (915) 543-5720
 EL PASO ENERGY CORPORATION (915) 496-5444
 EL PASO WATER UTILITIES (915) 594-5500
 MCI WORK (800) MCI-WORK
 TIME WARNER COMMUNICATIONS (915) 772-1123
 TEXAS GAS SERVICE (800) 850-7200
 SBC (800) 852-3786
 U.S. SPRINT TELECOMM (800) 521-0579

FOR FIELD LOCATING EXISTING UTILITIES
 CALL 811
 BEFORE YOU DIG
 REVISIONS
 DATE
 BY



PROJECT TITLE
 HIDDEN VILLAGE
 UNIT TWO
 SUBDIVISION IMPROVEMENTS
 SHEET TITLE
 DRAINAGE PLAN
 SHEET NO.
 C4.1

SCALE: 1" = 100'
 Horizontal: N/A
 Vertical: N/A
 Contour Interval: N/A
 DATE: JUNE 2020
 DESIGN BY: R.O.
 DRAWN BY: E.Z.
 CHKD. BY: F.Z.
 APP'D. BY: J.L.A.
 JOB No. 2000-223

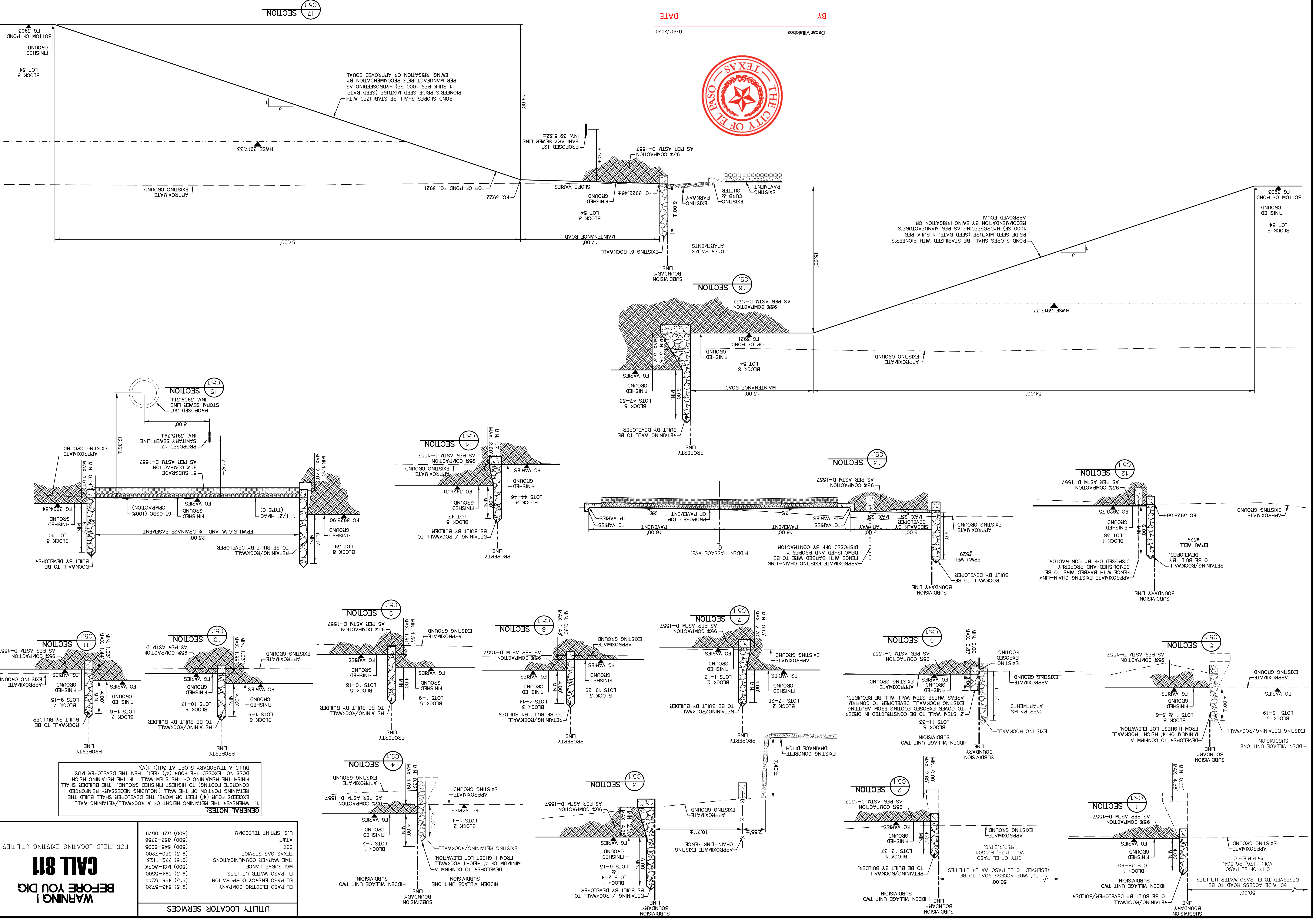
ENGINEER'S SEAL
 JORGE L. AZCARRATE
 85075
 TEXAS REGISTERED ENGINEERING FIRM F-4564

REFERENCES - BENCHMARKS
 CITY MONUMENT LOCATED AT THE
 CENTRINE INTERSECTION OF CLYDEDALE
 DRIVE AND PALMQUIO STREET,
 THE NORTH AMERICAN VERTICAL DATUM IS
 ELEVATION = 3939.32 (NAD 83)

UTILITY LOCATOR SERVICES
 EL PASO ELECTRIC COMPANY (915) 543-5720
 EL PASO ENERGY CORPORATION (915) 496-5444
 EL PASO WATER UTILITIES (915) 594-5500
 MCI WORK (800) MCI-WORK
 TIME WARNER COMMUNICATIONS (915) 772-1123
 TEXAS GAS SERVICE (800) 850-7200
 SBC (800) 852-3786
 U.S. SPRINT TELECOMM (800) 521-0579



DATE: 07/01/2020 BY: Oscar Villalobos



GENERAL NOTES:
 1. WHENEVER THE RETAINING HEIGHT OF A ROCKWALL/RETAINING WALL EXCEEDS FOUR (4) FEET OR MORE, THE DEVELOPER SHALL BUILD THE RETAINING PORTION OF THE WALL (INCLUDING NECESSARY REINFORCED CONCRETE FOOTING) TO HIGHEST FINISHED GROUND. THE BUILDER SHALL FINISH THE REMAINING OF THE STEEL WALL, IF THE RETAINING HEIGHT DOES NOT EXCEED THE FOUR (4) FEET, THEN THE DEVELOPER MUST BUILD A TEMPORARY SLOPE AT 3(H):1(V).

UTILITY LOCATOR SERVICES

EL PASO ELECTRIC COMPANY	(915) 543-5220
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5500
MCI WORK	(800) 401-WORK
THE WARMER COMMUNICATIONS	(915) 772-1123
TEXAS GAS SERVICE	(915) 850-7200
AT&T	(800) 545-6000
U.S. SPRINT TELECOM	(800) 852-3786
	(800) 521-0579

WARNING!
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FOR FIELD LOCATING EXISTING UTILITIES

EL PASO ENERGY CORPORATION (915) 496-5244
 EL PASO WATER UTILITIES (915) 594-5500
 MCI WORK (800) 401-WORK
 THE WARMER COMMUNICATIONS (915) 772-1123
 TEXAS GAS SERVICE (915) 850-7200
 AT&T (800) 545-6000
 U.S. SPRINT TELECOM (800) 521-0579

PROJECT TITLE
 HIDDEN VILLAGE UNIT TWO SUBDIVISION IMPROVEMENTS

SCALE
 1"=5'

DATE: JUNE 2020
DESIGN BY: R.O.
DRAWN BY: E.Z.
CHKD. BY: F.Z.
APPD. BY: J.L.A.

ENGINEER'S SEAL
 JORGE L. AZARATE
 58075
 25-20

TEXAS REGISTERED ENGINEERING FIRM F-4564

813 N. Kansas St. Suite 300 El Paso, TX 79902
 El Paso, TX 79902
 915.544.5232
 www.cegroup.net

REVISIONS

NO.	DATE	REVISIONS

SHEET TITLE
 GRADING SECTION

(SHEET 1 OF 2)

SHEET NO.
 BLOCK 8 LOT 54

C5.1

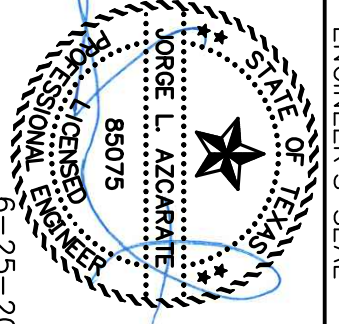
CS.2

SHEET NO. (SHEET 2 OF 2)
GRADING SECTION

SHEET TITLE

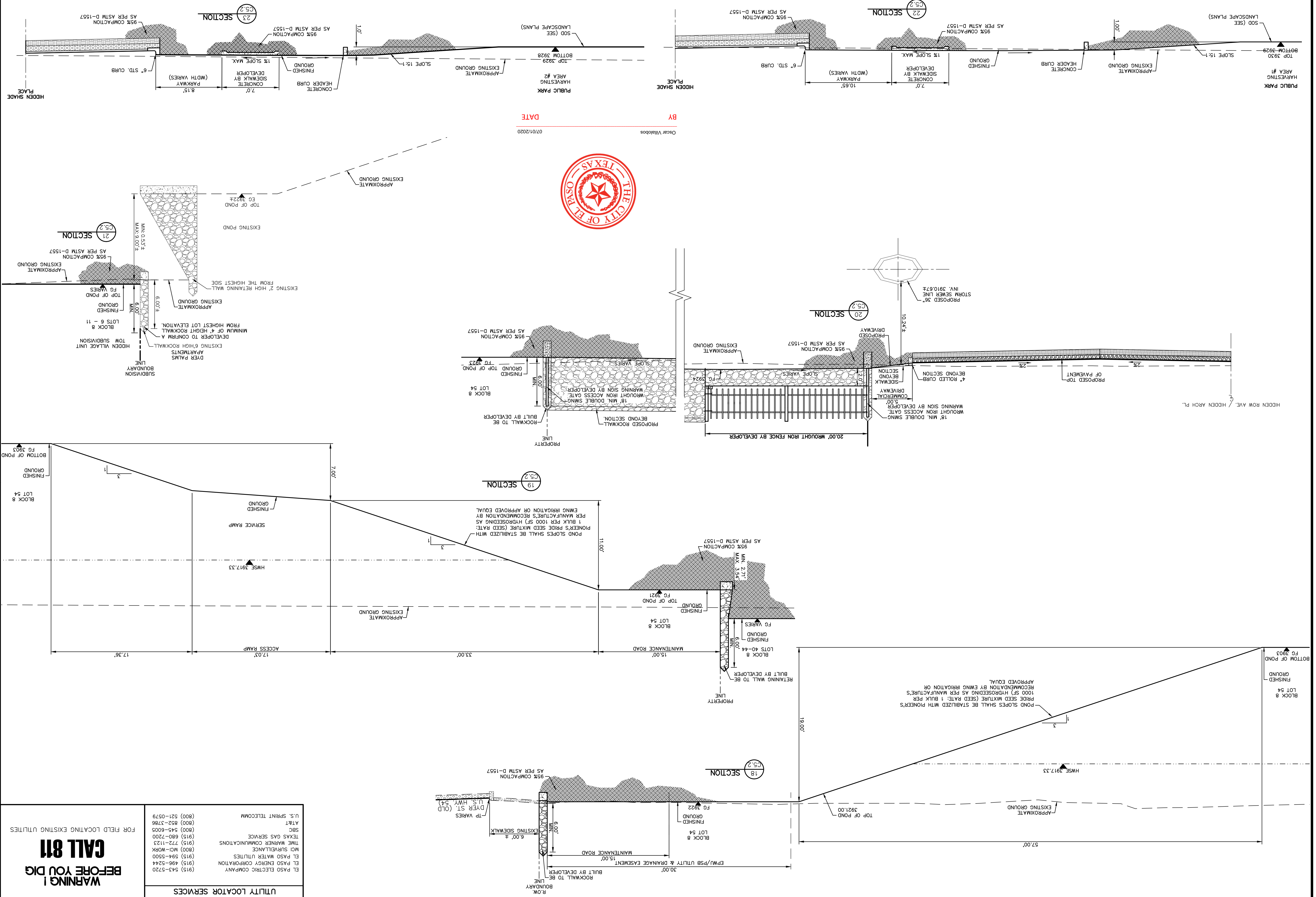
HIDDEN VILLAGE
UNIT TWO
SUBDIVISION IMPROVEMENTS

SCALE: 1"=5'
Horizontal: 1"=5'
Vertical: 1"=5'
Contour Interval: N/A



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El Paso, TX 79902
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DATE: JUNE 2020
DESIGN BY: R.O.
DRAWN BY: F.Z.
CHKD. BY: F.Z.
APPD. BY: J.L.A.
JOB No.: 2000-223



BY Oscar Villalobos
DATE 07/01/2020

UTILITY LOCATOR SERVICES

EL PASO ELECTRIC COMPANY	(915) 543-5220
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5500
MCI SURVEILLANCE	(800) MCI-WORK
TMC WARNER COMMUNICATIONS	(915) 772-1123
TEXAS GAS SERVICE	(915) 680-7200
AT&T	(800) 545-6000
U.S. SPRINT TELECOMM	(800) 452-3786
	(800) 521-0579

WARNING!
BEFORE YOU DIG
CALL 811
FOR FIELD LOCATING EXISTING UTILITIES

REFERENCES - BENCHMARKS
CITY MONUMENT LOCATED AT THE CENTRAL INTERSECTION OF COTTONSALO DRIVE AND PALOMINO STREET. THE NORTH AMERICAN VERTICAL DATUM IS ELEVATION = 3939.32 (NAD 83).

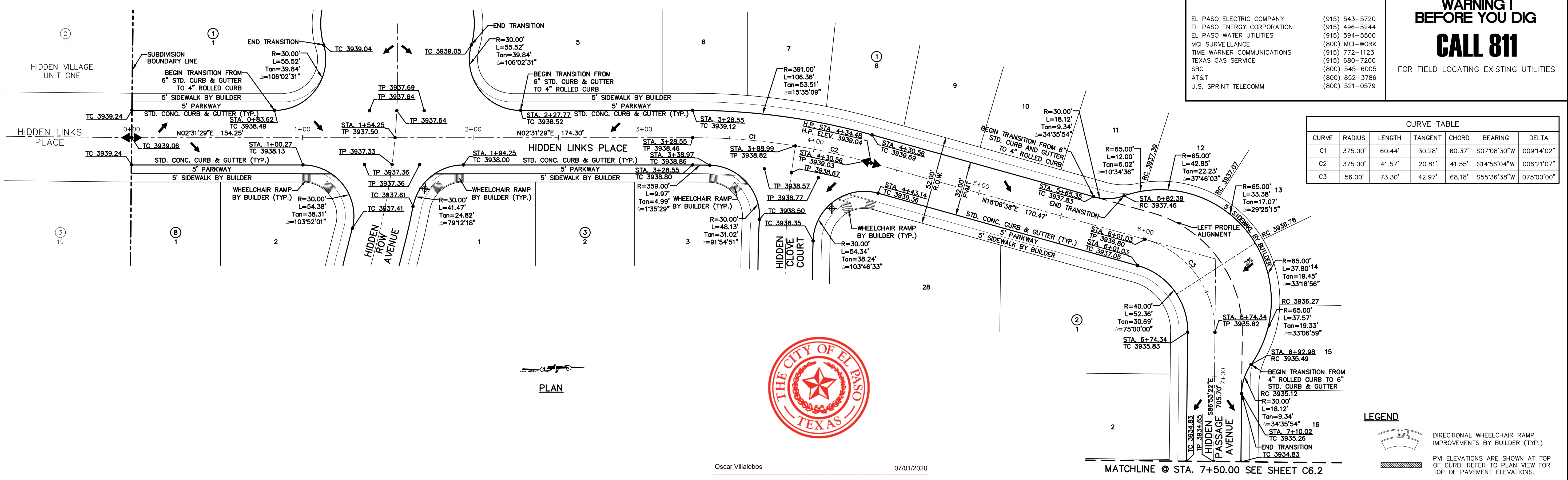
UTILITY LOCATOR SERVICES

EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5500
MCI SURVEILLANCE	(800) MCI-WORK
TIME WARNER COMMUNICATIONS	(915) 772-1123
TEXAS GAS SERVICE	(915) 680-7200
SBC	(800) 945-6005
AT&T	(800) 852-3786
U.S. SPRINT TELECOM	(800) 521-0579

WARNING!
BEFORE YOU DIG
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FOR FIELD LOCATING EXISTING UTILITIES

CURVE TABLE

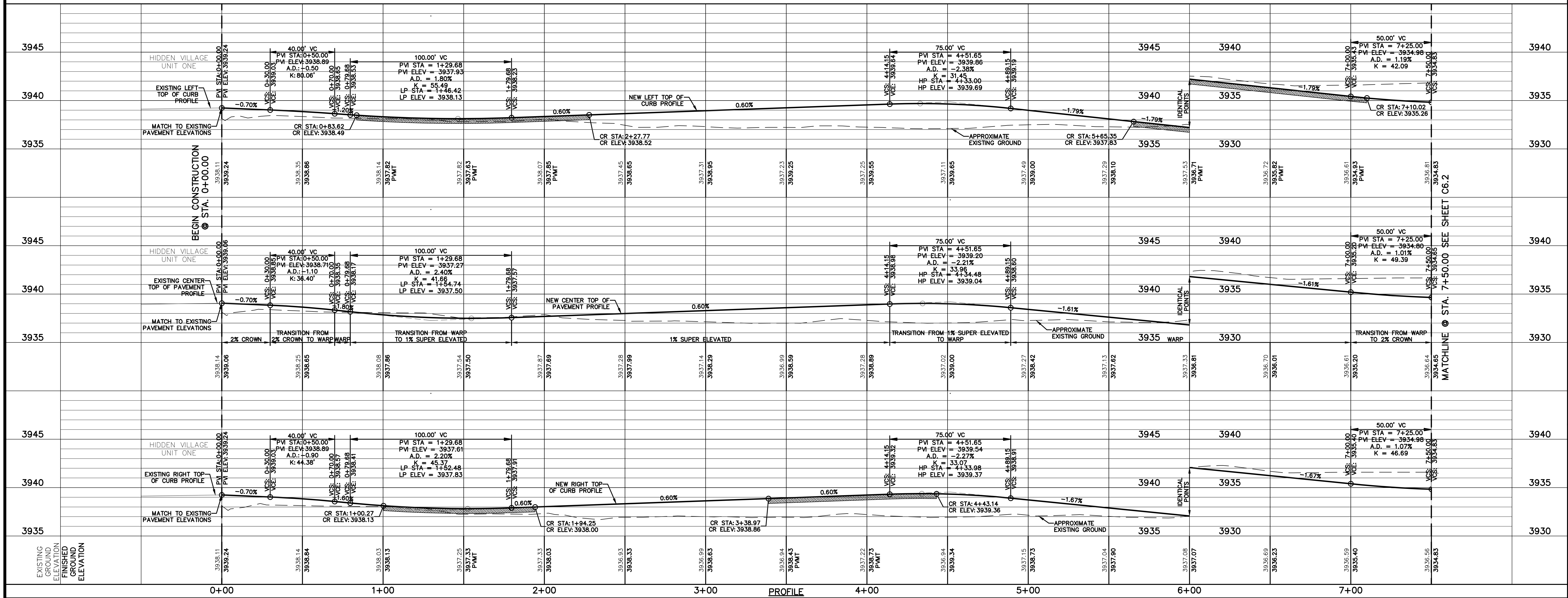
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	375.00'	60.44'	60.37'	60.37'	S07°08'30"W	009°14'02"
C2	375.00'	41.57'	20.81'	41.55'	S14°56'04"W	006°21'07"
C3	56.00'	73.30'	42.97'	68.18'	S55°36'38"W	075°00'00"



Oscar Villalobos 07/01/2020
BY DATE

LEGEND

- DIRECTIONAL WHEELCHAIR RAMP IMPROVEMENTS BY BUILDER (TYP.)
- PVI ELEVATIONS ARE SHOWN AT TOP OF CURB; REFER TO PLAN VIEW FOR TOP OF PAVEMENT ELEVATIONS.
- PROPOSED STREET NAME SIGN & STOP SIGN



REFERENCES - BENCHMARKS

CITY MONUMENT LOCATED AT THE CENTERLINE INTERSECTION OF CLYDEDALE DRIVE AND PALOMINO STREET, THE NORTH AMERICAN VERTICAL DATUM IS ELEVATION = 3939.32 (NAD 86).

ENGINEER'S SEAL

SCALE
Horizontal: 1" = 30'
Vertical: 1" = 5'
Contour Interval: N/A

DATE: JUNE 2020
DESIGN BY: R.O.
DRAWN BY: F.Z.
CHKD. BY: J.L.A.
APPVD. BY: J.L.A.
JOB No. ... 2000-223

PROJECT TITLE
HIDDEN VILLAGE UNIT TWO SUBDIVISION IMPROVEMENTS

SHEET TITLE
HIDDEN VILLAGE UNIT ONE FROM STA. 0+00.00 TO STA. 6+41.48 HIDDEN PASSAGE AVENUE PLAN & PROFILE FROM STA. 6+41.48 TO STA. 7+50.00

SHEET NO.
C6.1

UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5500
MCI SURVEILLANCE	(800) MCI-WORK
TIME WARNER COMMUNICATIONS	(915) 772-1123
TEXAS GAS SERVICE	(915) 680-7200
SBC	(800) 945-6005
AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579

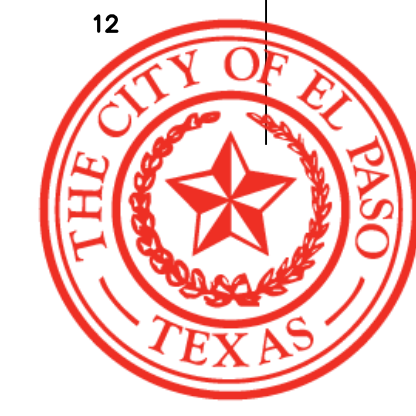
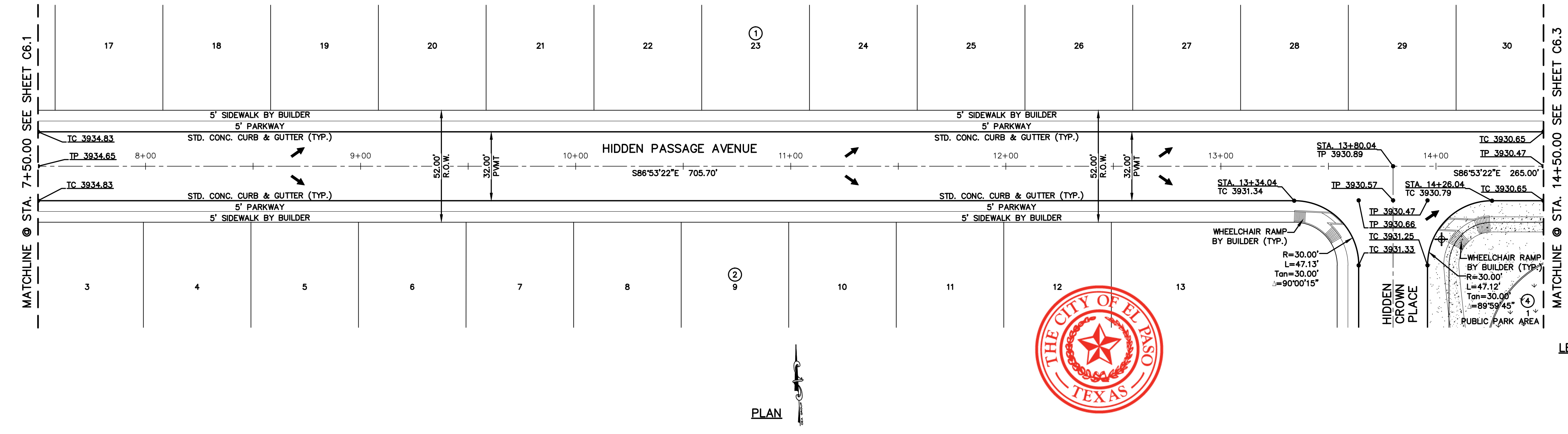
WARNING!
BEFORE YOU DIG
CALL 811
FOR FIELD LOCATING EXISTING UTILITIES

DATE	REVISIONS	BY

REFERENCES - BENCHMARKS
CITY MONUMENT LOCATED AT THE CENTERLINE INTERSECTION OF CLYDESDALE DRIVE AND PALOMINO STREET, THE NORTH AMERICAN VERTICAL DATUM IS ELEVATION = 3939.32 (NAD 83).

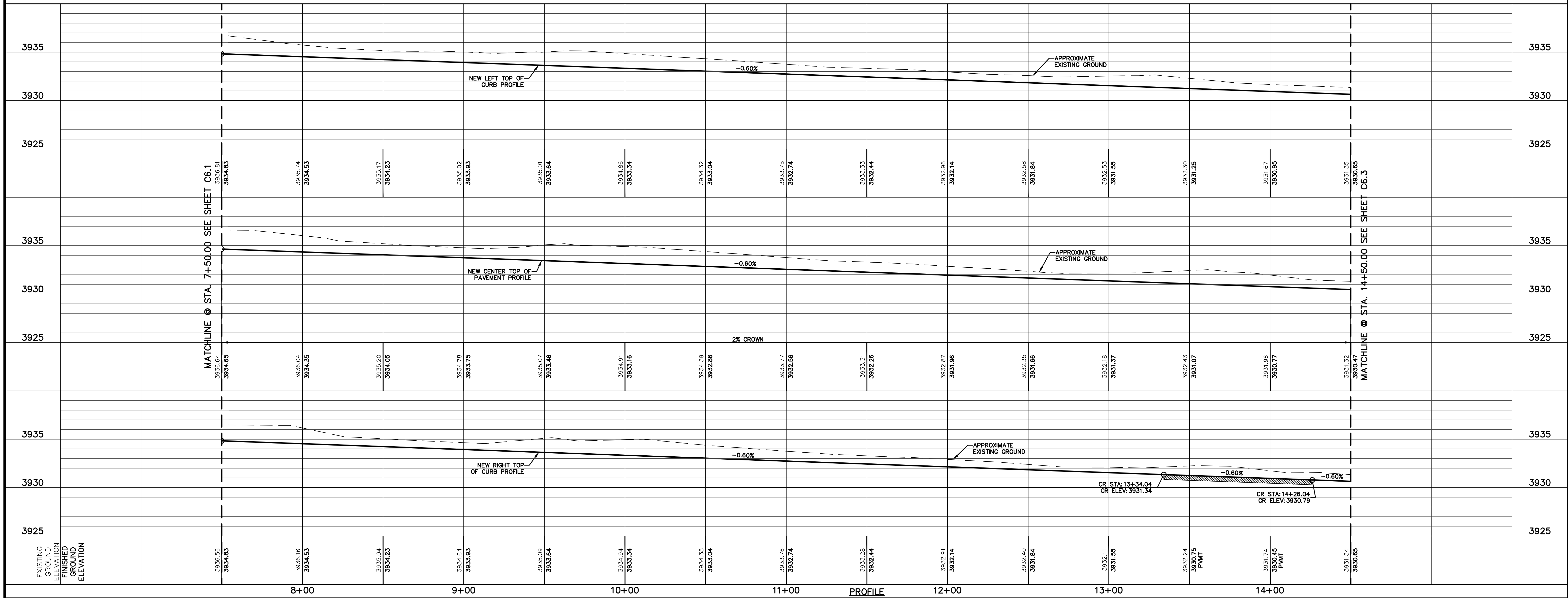
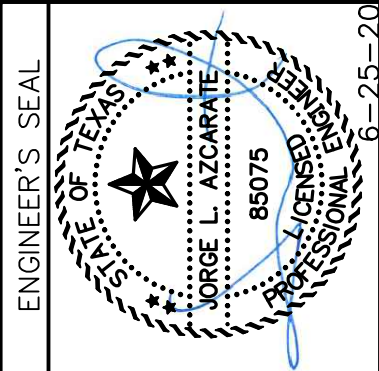
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CEA GROUP
TEXAS REGISTERED ENGINEERING FIRM F-4564



Oscar Villalobos 07/01/2020
BY DATE

- LEGEND**
- DIRECTIONAL WHEELCHAIR RAMP IMPROVEMENTS BY BUILDER (TYP.)
 - PVI ELEVATIONS ARE SHOWN AT TOP OF CURB. REFER TO PLAN VIEW FOR TOP OF PAVEMENT ELEVATIONS.
 - PROPOSED STREET NAME SIGN & STOP SIGN
 - SIDEWALK BY DEVELOPER REFER TO PARK PLANS



SCALE: 1"=30'
Horizontal: 1"=5'
Vertical: 1"=5'
Contour Interval: 1' / A
DATE: JUNE 2020
DESIGN BY: R.O.
DRAWN BY: F.Z.
CHKD. BY: J.L.A.
APPVD. BY: J.L.A.
JOB No. 2000-223

PROJECT TITLE
**HIDDEN VILLAGE
AVENUE
UNIT TWO
SUBDIVISION IMPROVEMENTS**

SHEET TITLE
**HIDDEN PASSAGE
AVENUE
PLAN & PROFILE
FROM STA. 7+50.00
TO STA. 14+50.00**

SHEET NO.
C6.2

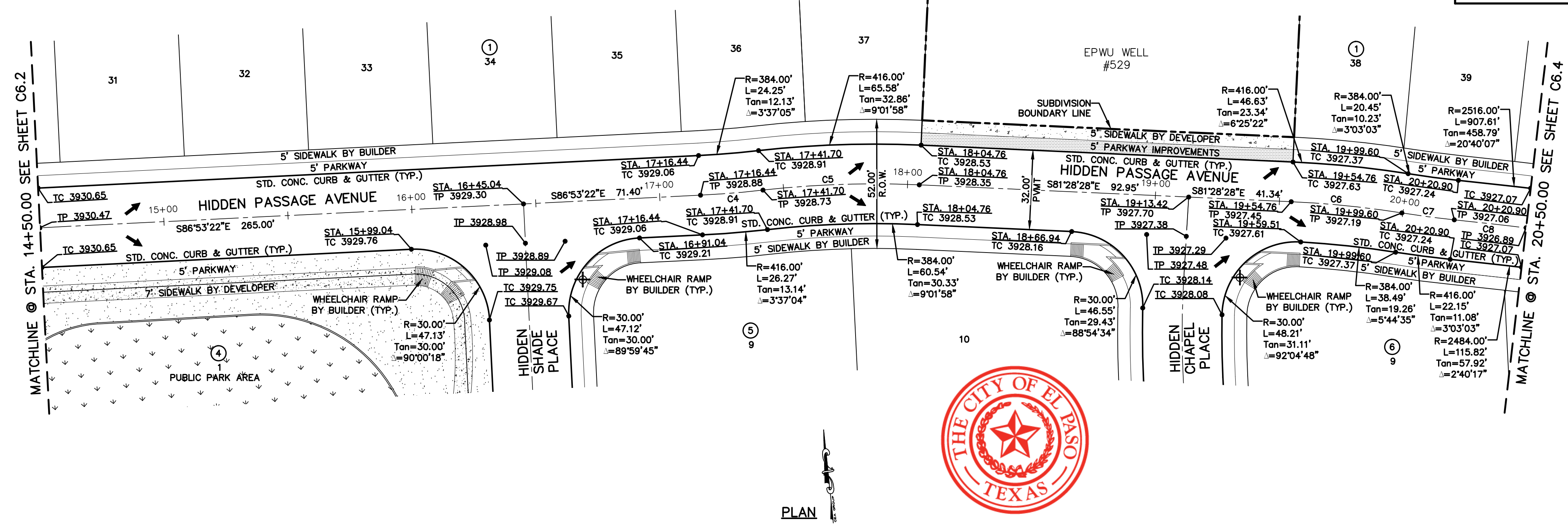
UTILITY LOCATOR SERVICES

EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5500
MCI SURVEILLANCE	(800) MCI-WORK
TIME WARNER COMMUNICATIONS	(915) 772-1123
TEXAS GAS SERVICE	(915) 680-7200
SBC	(800) 945-6005
AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579

WARNING!
BEFORE YOU DIG
CALL 811
FOR FIELD LOCATING EXISTING UTILITIES

CURVE TABLE

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C4	400.00'	25.26'	12.63'	25.25'	S88°41'54"E	003°37'05"
C5	400.00'	63.06'	31.60'	63.00'	N85°59'27"W	009°01'58"
C6	400.00'	44.84'	22.44'	44.82'	N78°15'47"W	006°25'22"
C7	400.00'	21.30'	10.65'	21.30'	S76°34'37"E	003°03'03"
C8	2500.00'	160.18'	80.12'	160.15'	N76°16'00"W	003°40'16"



Oscar Villalobos 07/01/2020
BY DATE

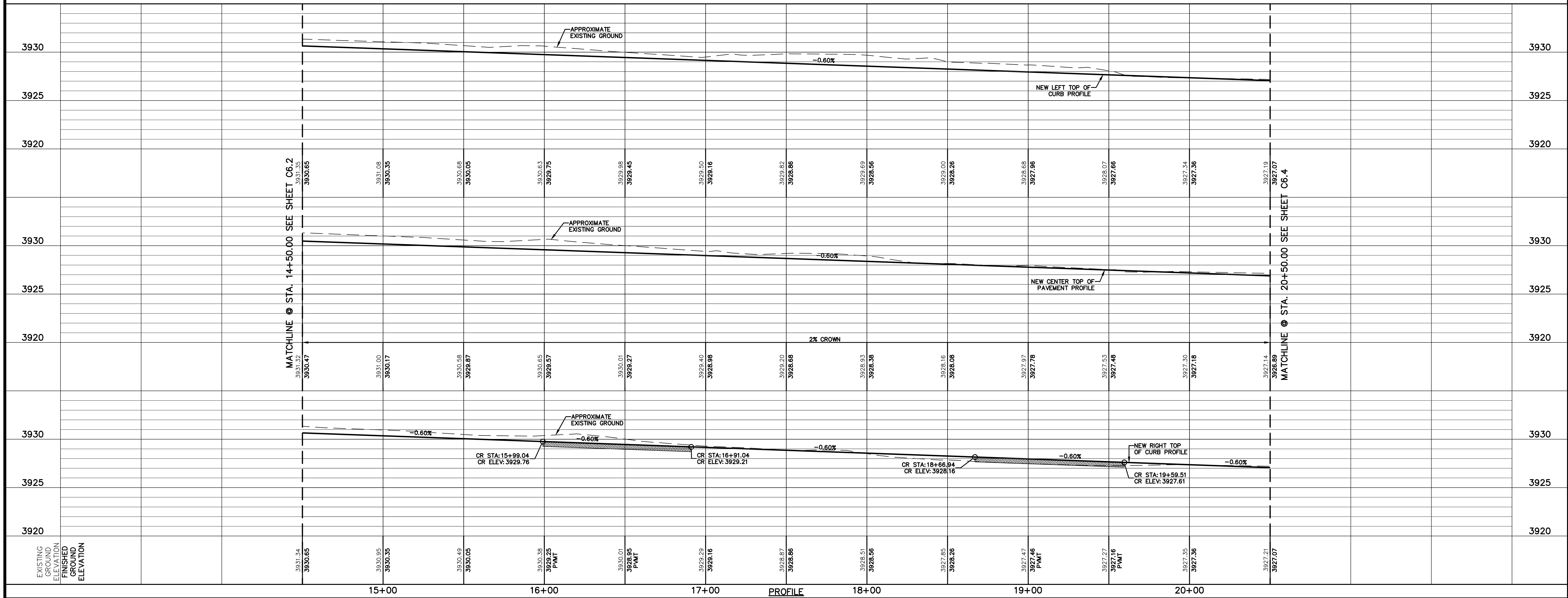
- LEGEND
- DIRECTIONAL WHEELCHAIR RAMP IMPROVEMENTS BY BUILDER (TYP.)
 - PVI ELEVATIONS ARE SHOWN AT TOP OF CURB. REFER TO PLAN VIEW FOR TOP OF PAVEMENT ELEVATIONS.
 - PROPOSED STREET NAME SIGN & STOP SIGN
 - SIDEWALK BY DEVELOPER REFER TO PARK PLANS
 - PARKWAY IMPROVEMENTS BY DEVELOPER TO BE SELECTED BY DEVELOPER

REFERENCES - BENCHMARKS
CITY MONUMENT LOCATED AT THE CENTERLINE INTERSECTION OF CLYDESDALE DRIVE AND PALOMINO STREET, THE NORTH AMERICAN VERTICAL DATUM IS ELEVATION = 3939.32 (NAD 83).

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Suite 300
El Paso, TX 79902
915.544.5232
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CEA GROUP
TEXAS REGISTERED ENGINEERING FIRM F-4564

ENGINEER'S SEAL
JOSUE L. AZARATE
80075



SCALE: Horizontal: 1"=30'
Vertical: 1"=5'
Contour Interval: N/A

DATE: JUNE 2020
DESIGN BY: R.O.
DRAWN BY: F.Z.
CHKD. BY: J.L.A.
APPVD. BY: J.L.A.
JOB No. 2000-223

PROJECT TITLE
HIDDEN VILLAGE
UNIT TWO
SUBDIVISION IMPROVEMENTS

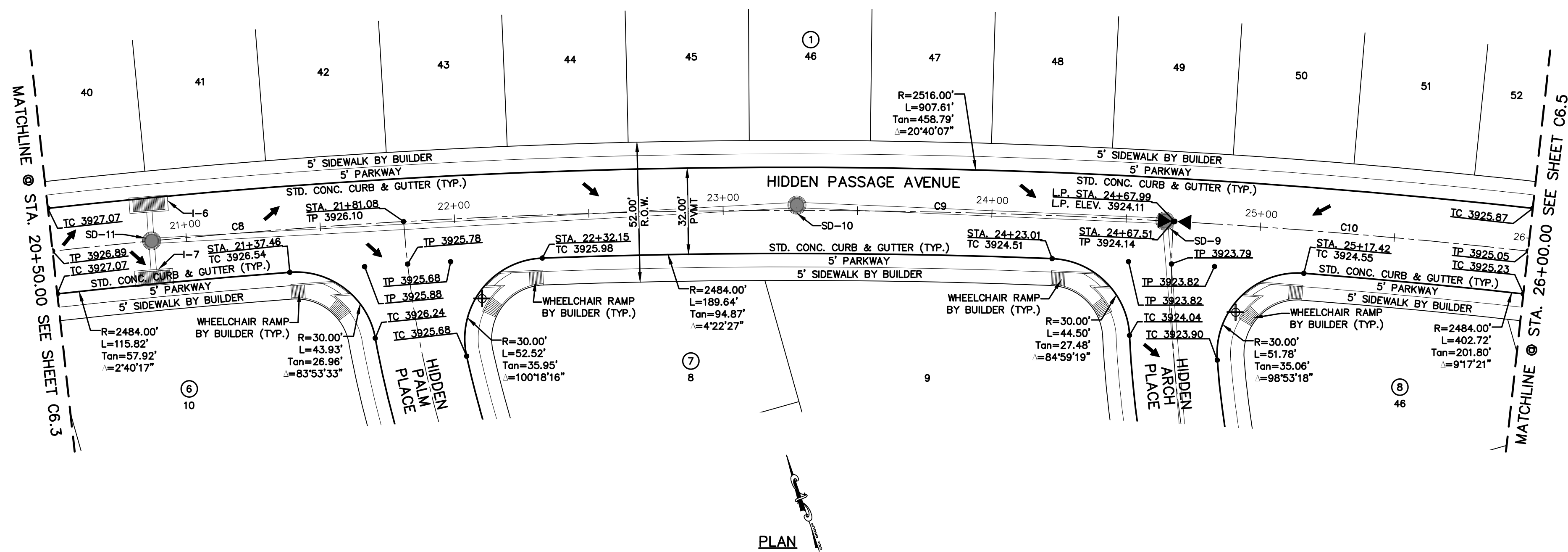
SHEET TITLE
HIDDEN PASSAGE
AVENUE
PLAN & PROFILE
FROM STA. 14+50.00
TO STA. 20+50.00

SHEET NO.
C6.3

UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5500
MCI SURVEILLANCE	(800) MCI-WORK
TIME WARNER COMMUNICATIONS	(915) 772-1123
TEXAS GAS SERVICE	(915) 680-7200
SBC	(800) 545-6005
AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579

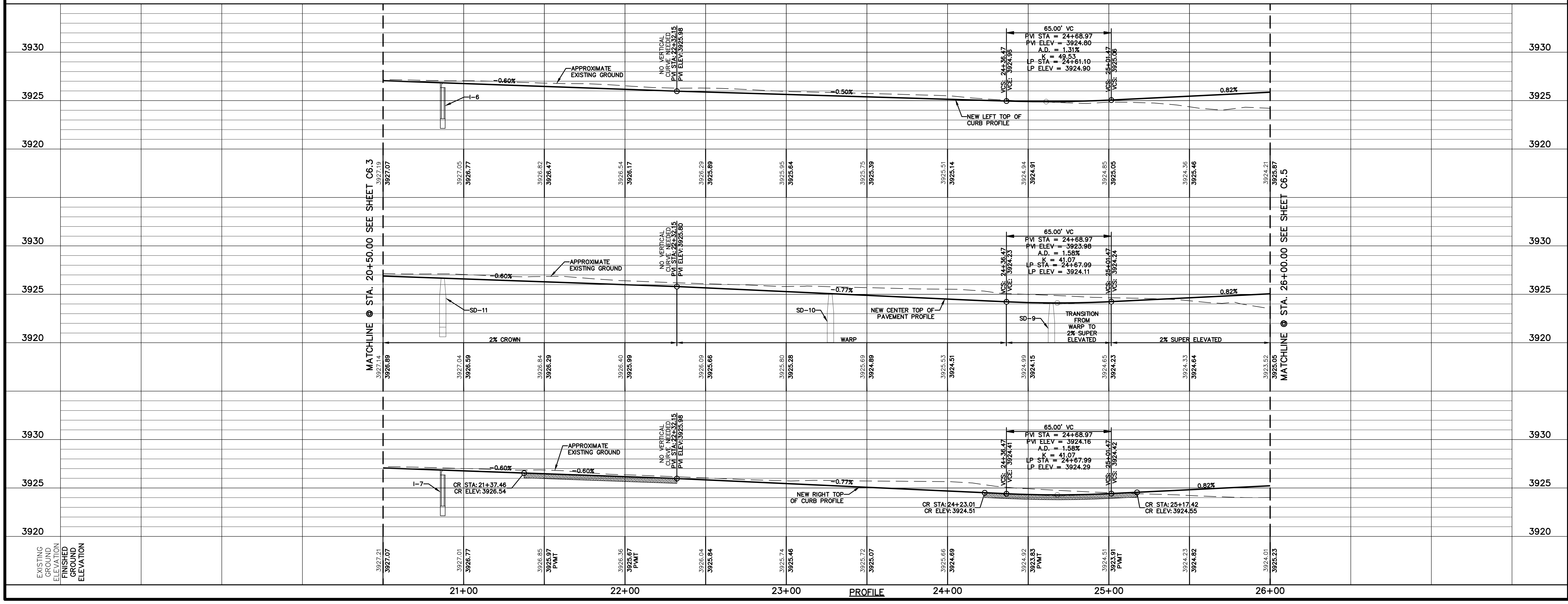
WARNING!
BEFORE YOU DIG
CALL 811
FOR FIELD LOCATING EXISTING UTILITIES

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C8	2500.00'	160.18'	80.12'	160.15'	N76°16'00"W	003°40'16"
C9	2500.00'	286.43'	143.37'	286.27'	N71°08'56"W	006°33'52"
C10	2500.00'	455.23'	228.25'	454.60'	N62°39'01"W	010°25'59"



Oscar Villalobos
BY DATE 07/01/2020

LEGEND
 DIRECTIONAL WHEELCHAIR RAMP IMPROVEMENTS BY BUILDER (TYP.)
 PVI ELEVATIONS ARE SHOWN AT TOP OF CURB. REFER TO PLAN VIEW FOR TOP OF PAVEMENT ELEVATIONS.
 PROPOSED STREET NAME SIGN & STOP SIGN



REFERENCES - BENCHMARKS
 CITY MONUMENT LOCATED AT THE CENTERLINE INTERSECTION OF CLYDESDALE DRIVE AND PALMING STREET, THE NORTH AMERICAN VERTICAL DATUM IS ELEVATION = 3939.32 (NAD 86).

813 N. Kansas St.
 Suite 300
 El Paso, TX 79902
 915.544.5232
 www.ceagroup.net
CEA GROUP
 TEXAS REGISTERED ENGINEERING FIRM F-4564

ENGINEER'S SEAL

 JORGE L. AZCARATE
 80075
 LICENSED PROFESSIONAL ENGINEER
 CIVIL
 STATE OF TEXAS

SCALE: Horizontal: 1" = 30'
 Vertical: 1" = 5'
 Contour Interval: 1'/A

DATE: JUNE 2020
 DESIGN BY: R.O.
 DRAWN BY: F.Z.
 CHKD. BY: J.L.A.
 APPVD. BY: J.L.A.
 JOB No. 2000-223

PROJECT TITLE
**HIDDEN VILLAGE
 UNIT TWO
 SUBDIVISION IMPROVEMENTS**

SHEET TITLE
**HIDDEN PASSAGE
 AVENUE
 PLAN & PROFILE
 FROM STA. 20+50.00
 TO STA. 26+00.00**

SHEET NO.
C6.4

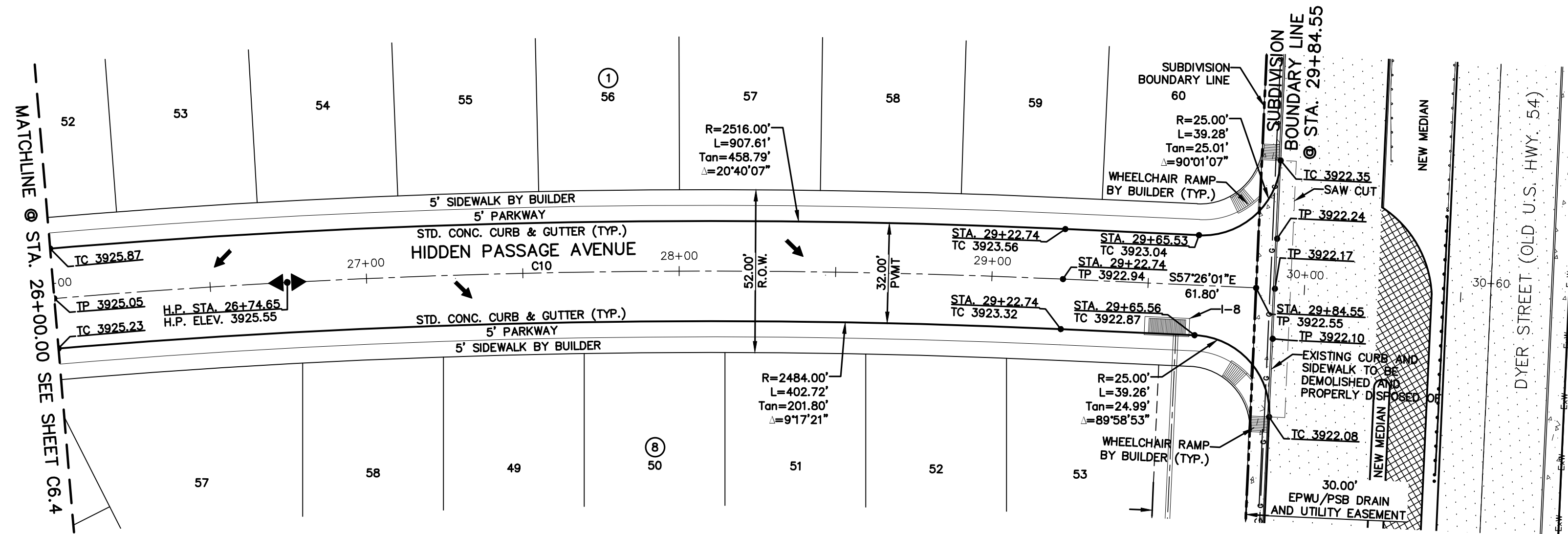


Oscar Villalobos

07/01/2020

BY

DATE



PLAN

UTILITY LOCATOR SERVICES

EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5500
MCI SURVEILLANCE	(800) MCI-WORK
TIME WARNER COMMUNICATIONS	(915) 772-1123
TEXAS GAS SERVICE	(915) 680-7200
SBC	(800) 945-6005
AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579

WARNING!
BEFORE YOU DIG
CALL 811
FOR FIELD LOCATING EXISTING UTILITIES

CURVE TABLE

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C10	2500.00'	455.23'	228.25'	454.60'	N62°39'01"W	010°25'59"

LEGEND

- DIRECTIONAL WHEELCHAIR RAMP IMPROVEMENTS BY BUILDER (TYP.)
- PROPOSED STREET NAME SIGN & STOP SIGN

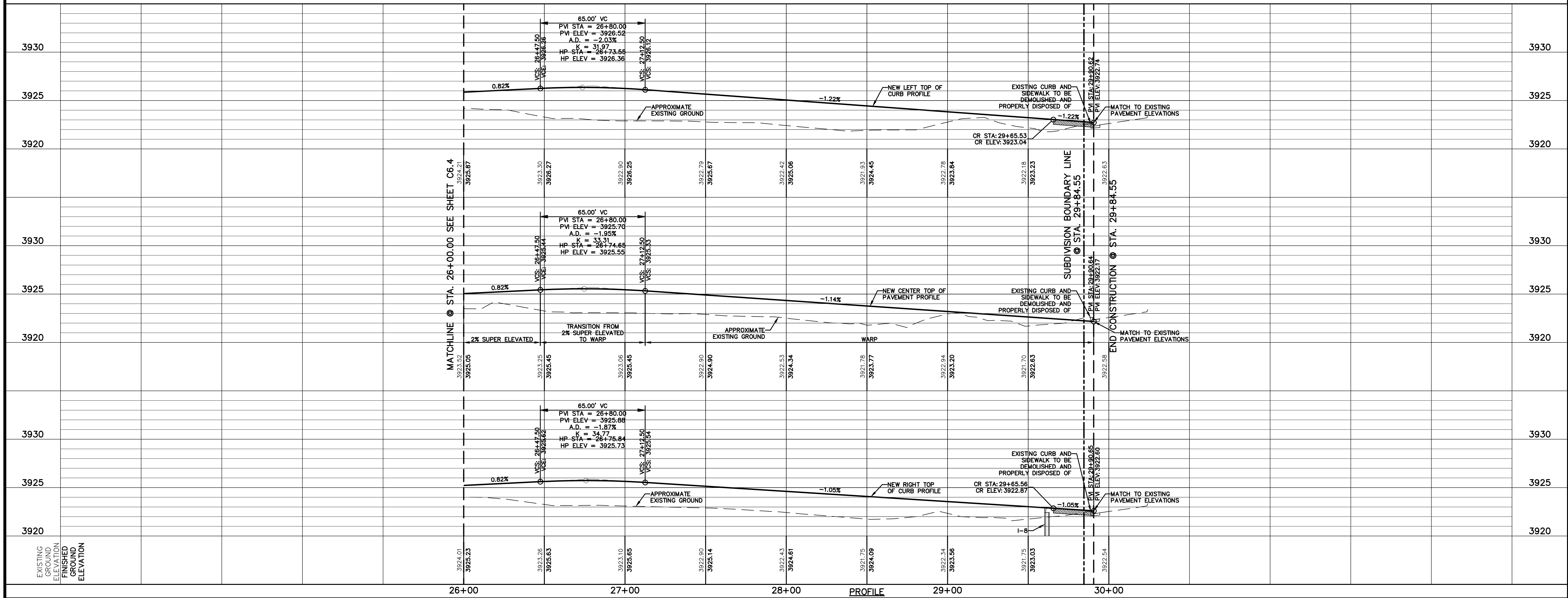
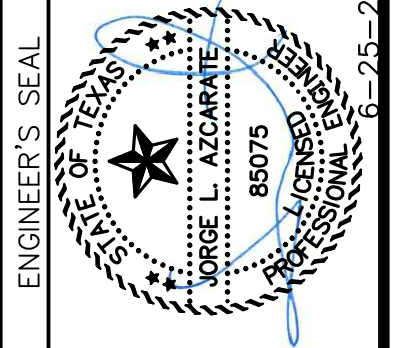
REFERENCES - BENCHMARKS

CITY MONUMENT LOCATED AT THE CENTERLINE INTERSECTION OF CLYDESDALE DRIVE AND PALOMINO STREET, THE NORTH AMERICAN VERTICAL DATUM IS ELEVATION = 3939.32 (NAD 86).

DATE	REVISIONS	BY

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CEA GROUP
TEXAS REGISTERED ENGINEERING FIRM F-4564



SCALE: 1"=30'
Horizontal: 1"=5'
Vertical: 1"=5'
Contour Interval: N/A
DATE: JUNE 2020
DESIGN BY: R.O.
DRAWN BY: F.Z.
CHKD. BY: J.L.A.
APPVD. BY: J.L.A.
JOB No. 2000-223

PROJECT TITLE
**HIDDEN VILLAGE
UNIT TWO
SUBDIVISION IMPROVEMENTS**

SHEET TITLE
**HIDDEN PASSAGE
AVENUE
PLAN & PROFILE
FROM STA. 26+00.00
TO STA. 29+84.55**

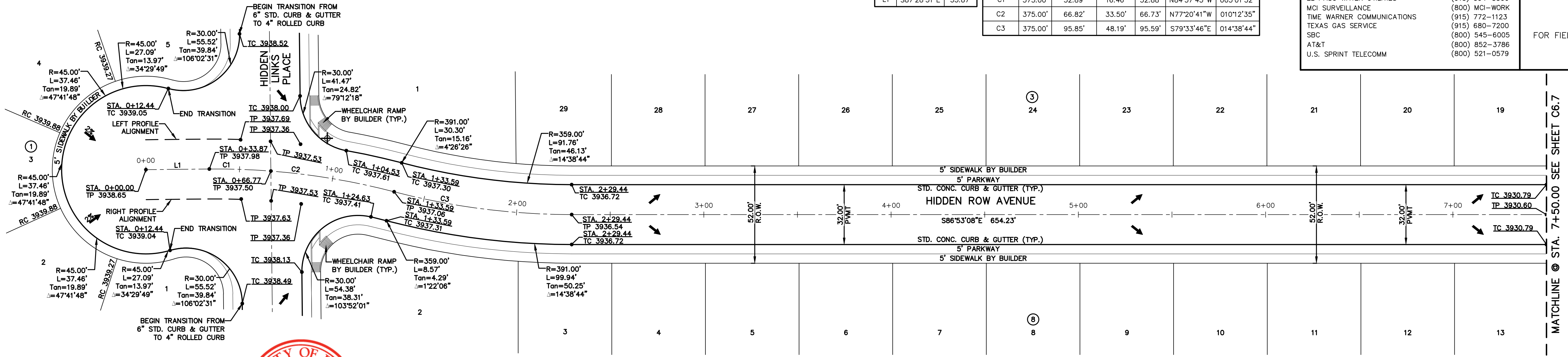
SHEET NO.
C6.5

UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5500
MCI SURVEILLANCE	(800) MCI-WORK
TIME WARNER COMMUNICATIONS	(915) 772-1123
TEXAS GAS SERVICE	(915) 680-7200
SBC	(800) 945-6005
AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579

WARNING!
BEFORE YOU DIG
CALL 811
FOR FIELD LOCATING EXISTING UTILITIES

LINE TABLE		
LINE	BEARING	LENGTH
L1	S87°28'31"E	33.87'

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	375.00'	32.89'	16.46'	32.88'	N84°57'45"W	005°01'32"
C2	375.00'	66.82'	33.50'	66.73'	N77°20'41"W	010°12'35"
C3	375.00'	95.85'	48.19'	95.59'	S79°33'46"E	014°38'44"



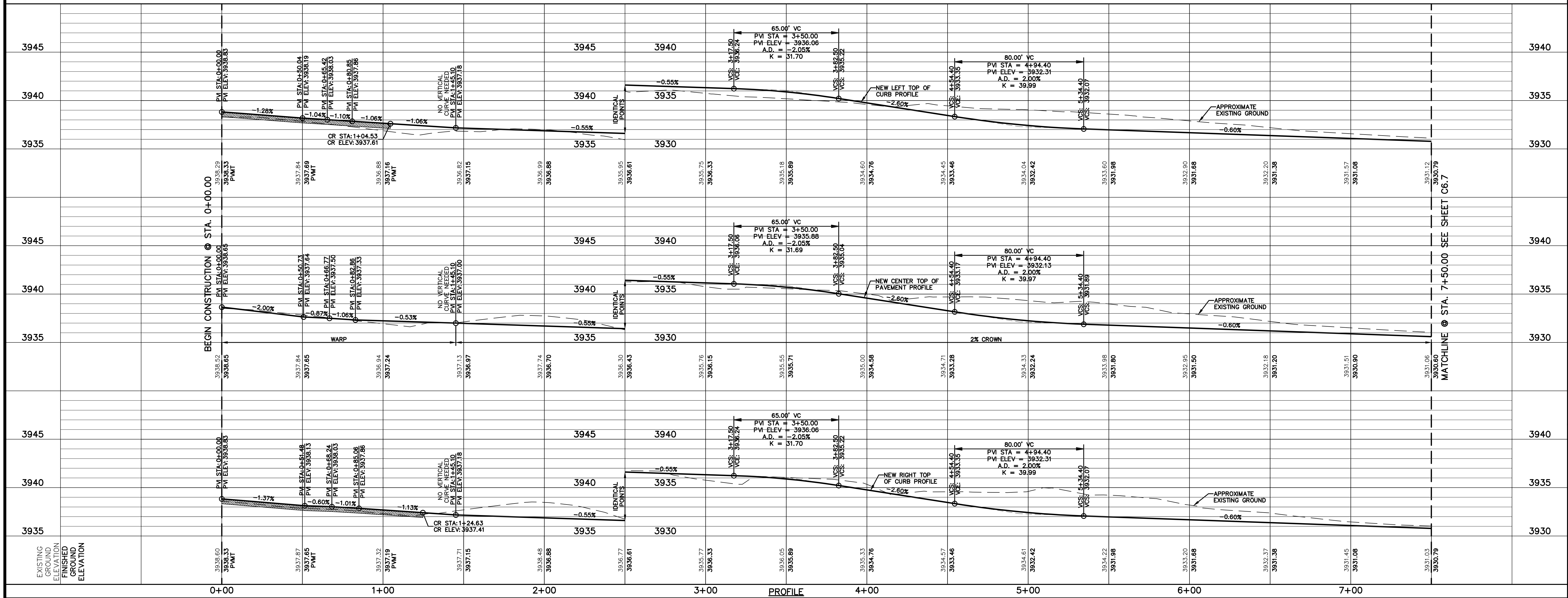
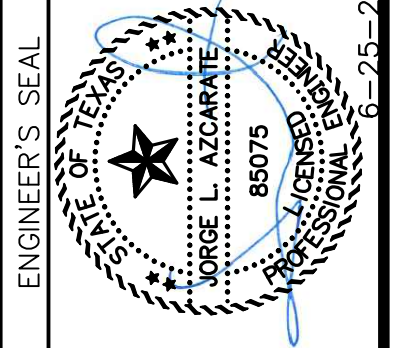
BY Oscar Villalobos DATE 07/01/2020

- LEGEND**
- DIRECTIONAL WHEELCHAIR RAMP IMPROVEMENTS BY BUILDER (TYP.)
 - PROPOSED STREET NAME SIGN & STOP SIGN

DATE	REVISIONS	BY

REFERENCES - BENCHMARKS
CITY MONUMENT LOCATED AT THE CENTERLINE INTERSECTION OF CLYDEDALE DRIVE AND PALOMINO STREET, THE NORTH AMERICAN VERTICAL DATUM IS ELEVATION = 3939.32 (NAD 83).

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TEXAS REGISTERED ENGINEERING FIRM F-4564



SCALE: 1"=30'
Horizontal: 1"=5'
Vertical: 1"=5'
Contour Interval: N/A

DATE: JUNE 2020
DESIGN BY: R.O.
DRAWN BY: F.Z.
CHKD. BY: J.L.A.
APPVD. BY: J.L.A.
JOB No. 2000-223

PROJECT TITLE
**HIDDEN VILLAGE
UNIT TWO
SUBDIVISION IMPROVEMENTS**

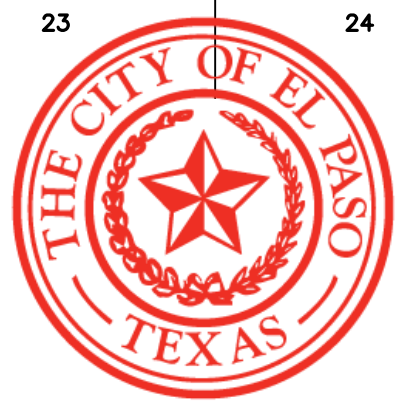
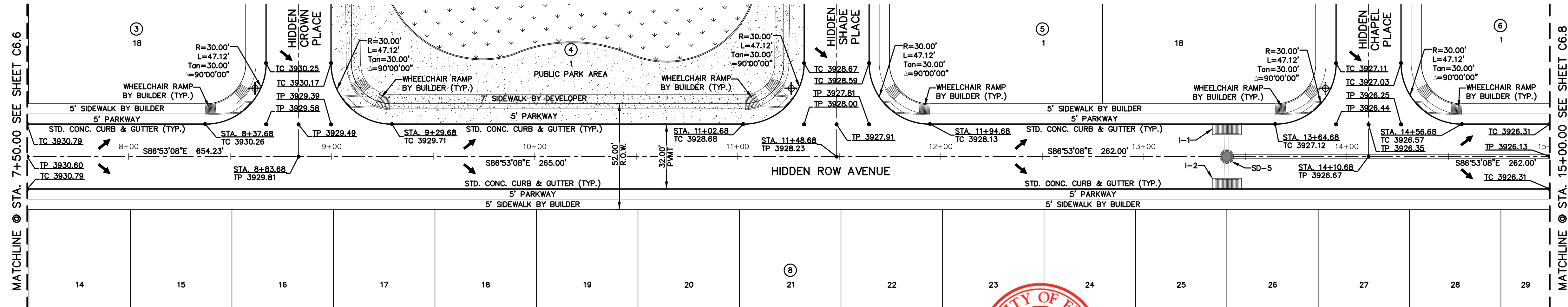
SHEET TITLE
HIDDEN ROW AVENUE
PLAN & PROFILE
FROM STA. 0+00.00
TO STA. 7+50.00

SHEET NO.
C6.6

UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5500
MCI SURVEILLANCE	(800) MCI-WORK
TIME WARNER COMMUNICATIONS	(915) 772-1123
TEXAS GAS SERVICE	(915) 680-7200
SBC	(800) 945-6005
AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579

WARNING!
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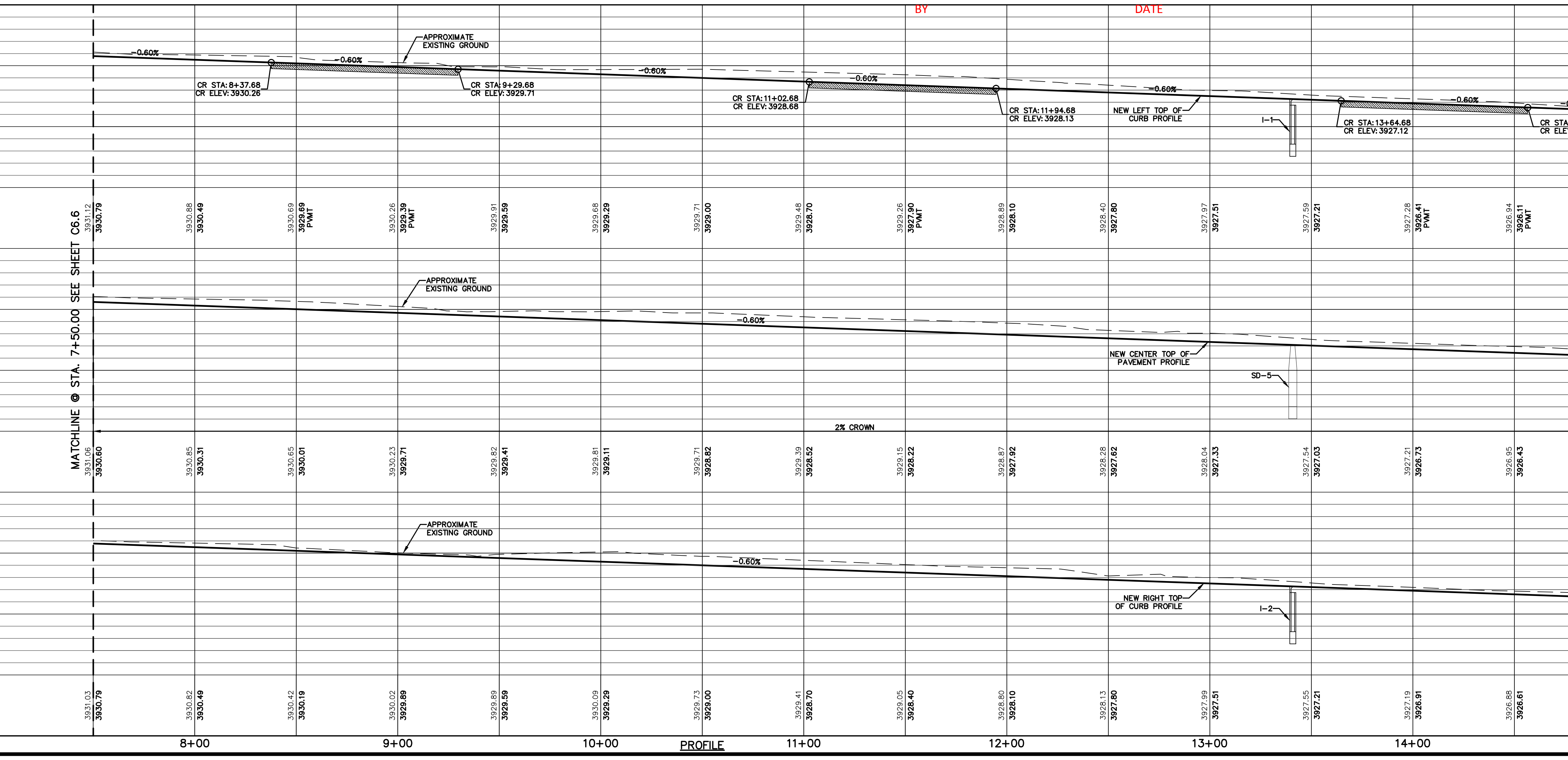
DATE	REVISIONS	BY



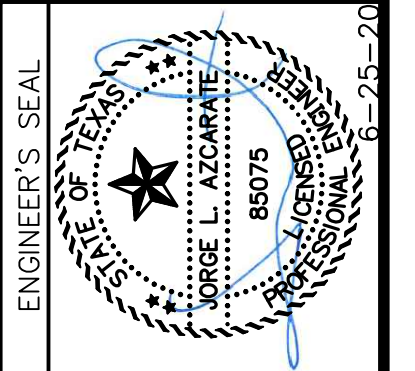
Oscar Villalobos 07/01/2020

- LEGEND**
- DIRECTIONAL WHEELCHAIR RAMP IMPROVEMENTS BY BUILDER (TYP.)
 - PVI ELEVATIONS ARE SHOWN AT TOP OF CURB. REFER TO PLAN VIEW FOR TOP OF PAVEMENT ELEVATIONS.
 - PROPOSED STREET NAME SIGN & STOP SIGN
 - SIDEWALK BY DEVELOPER REFER TO PARK PLANS

PLAN



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TEXAS REGISTERED ENGINEERING FIRM F-4564



SCALE: 1"=30'
Horizontal: 1"=5'
Vertical: 1"=5'
Contour Interval: N/A
DATE: JUNE 2020
DESIGN BY: R.O.
DRAWN BY: F.Z.
CHKD. BY: J.L.A.
APPD. BY: J.L.A.
JOB No.: 2000-223

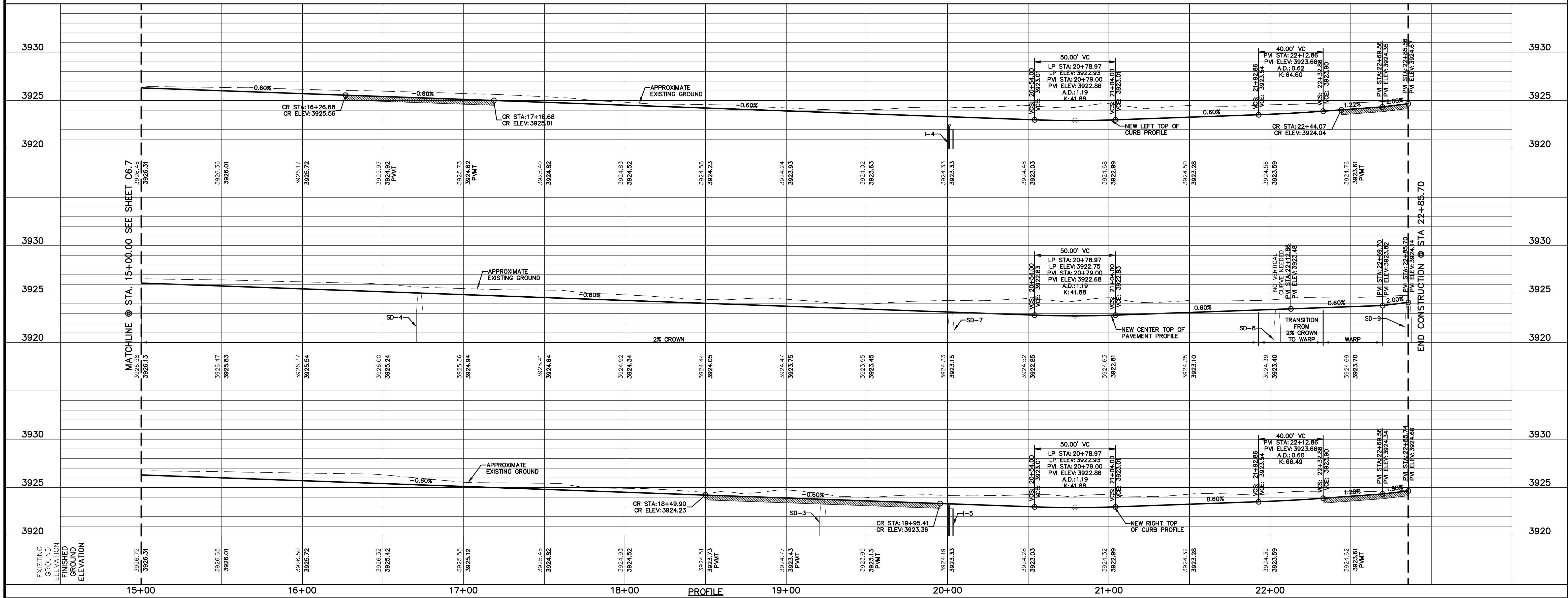
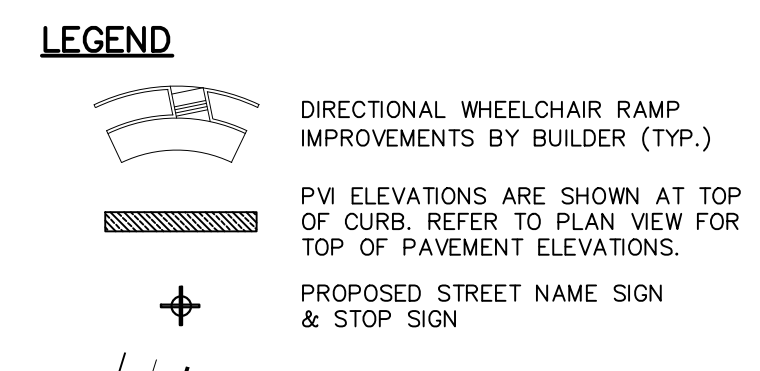
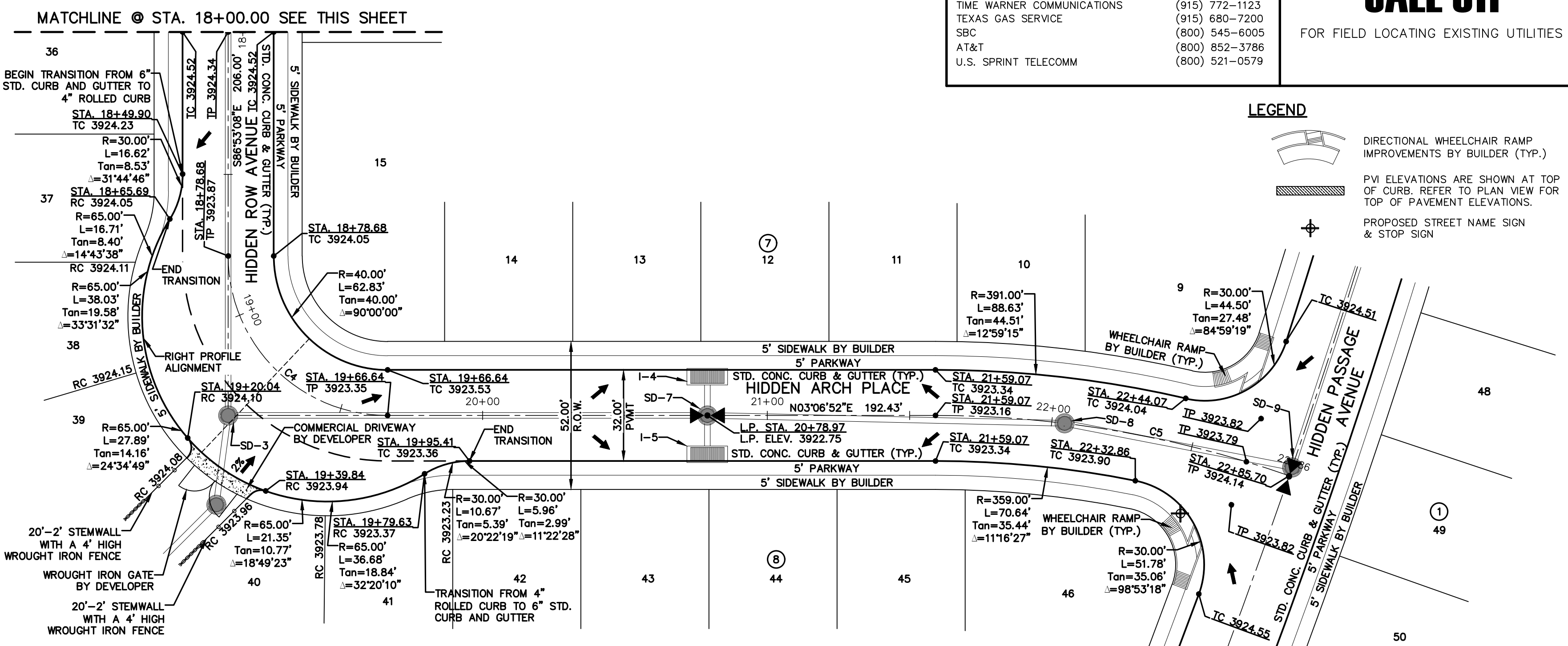
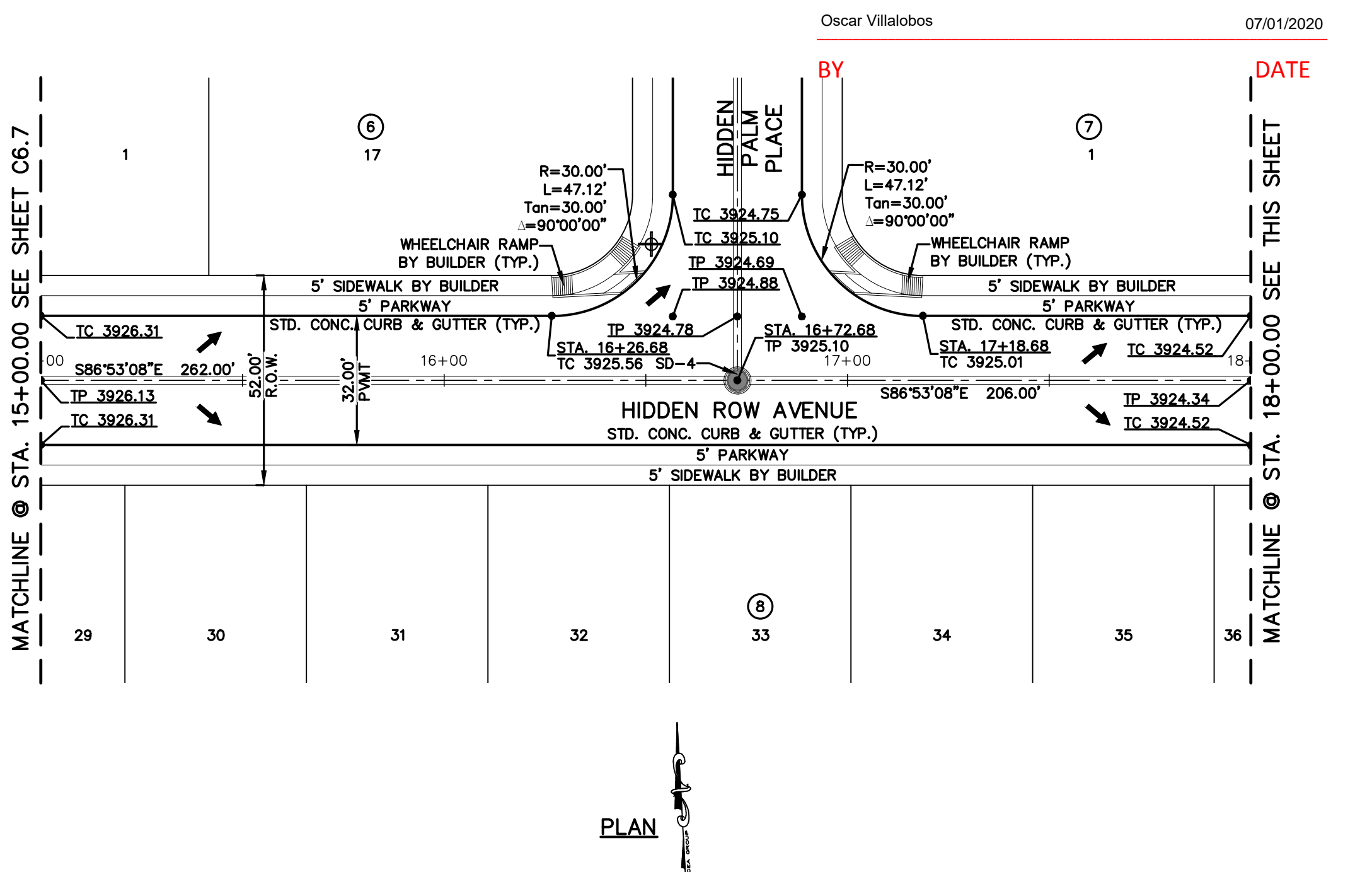
PROJECT TITLE	
HIDDEN VILLAGE UNIT TWO SUBDIVISION IMPROVEMENTS	
SHEET TITLE	
HIDDEN ROW AVENUE PLAN & PROFILE FROM STA. 7+50.00 TO STA. 15+00.00	
SHEET NO.	
C6.7	



UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5500
MCI SURVEILLANCE	(800) MCI-WORK
TIME WARNER COMMUNICATIONS	(915) 772-1123
TEXAS GAS SERVICE	(915) 680-7200
SBC	(800) 945-6005
AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579

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DATE	REVISIONS	BY



REFERENCES - BENCHMARKS
CITY MONUMENT LOCATED AT THE CENTERLINE INTERSECTION OF CLYDEDALE DRIVE AND PALOMINO STREET. THE NORTH AMERICAN VERTICAL DATUM IS ELEVATION = 3939.32 (NAD 83).

ENGINEER'S SEAL

SCALE: H=1"=30', V=1"=5'
 Horizontal: 1"=30'
 Vertical: 1"=5'
 Contour Interval: N/A
 DATE: JUNE 2020
 DESIGN BY: R.O.
 DRAWN BY: F.Z.
 CHKD. BY: J.L.A.
 APPD. BY: J.L.A.
 JOB No. 2000-223

PROJECT TITLE
**HIDDEN VILLAGE
 UNIT TWO
 SUBDIVISION IMPROVEMENTS**

SHEET TITLE
**HIDDEN ROW AVENUE
 PLAN & PROFILE
 FROM STA. 15+00.00
 TO STA. 19+24.18
 HIDDEN ARCH PLACE
 PLAN & PROFILE
 FROM STA. 19+24.18
 TO STA. 22+85.70**

SHEET NO.
C6.8

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 TEXAS REGISTERED ENGINEERING FIRM F-4564



Oscar Villalobos 07/01/2020
 BY DATE

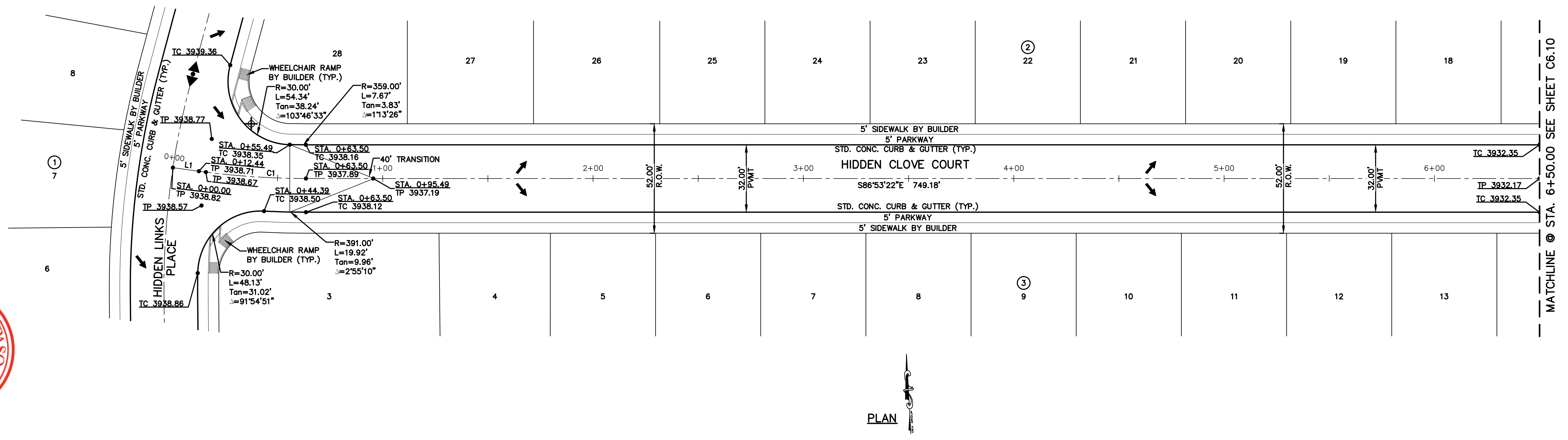
LINE TABLE		
LINE	BEARING	LENGTH
L1	S79°05'15"E	12.44'

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	375.00'	51.06'	25.57'	51.02'	S82°59'18"E	007°48'07"

UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5500
MCI SURVEILLANCE	(800) MCI-WORK
TIME WARNER COMMUNICATIONS	(915) 772-1123
TEXAS GAS SERVICE	(915) 680-7200
SBC	(800) 945-6005
AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579

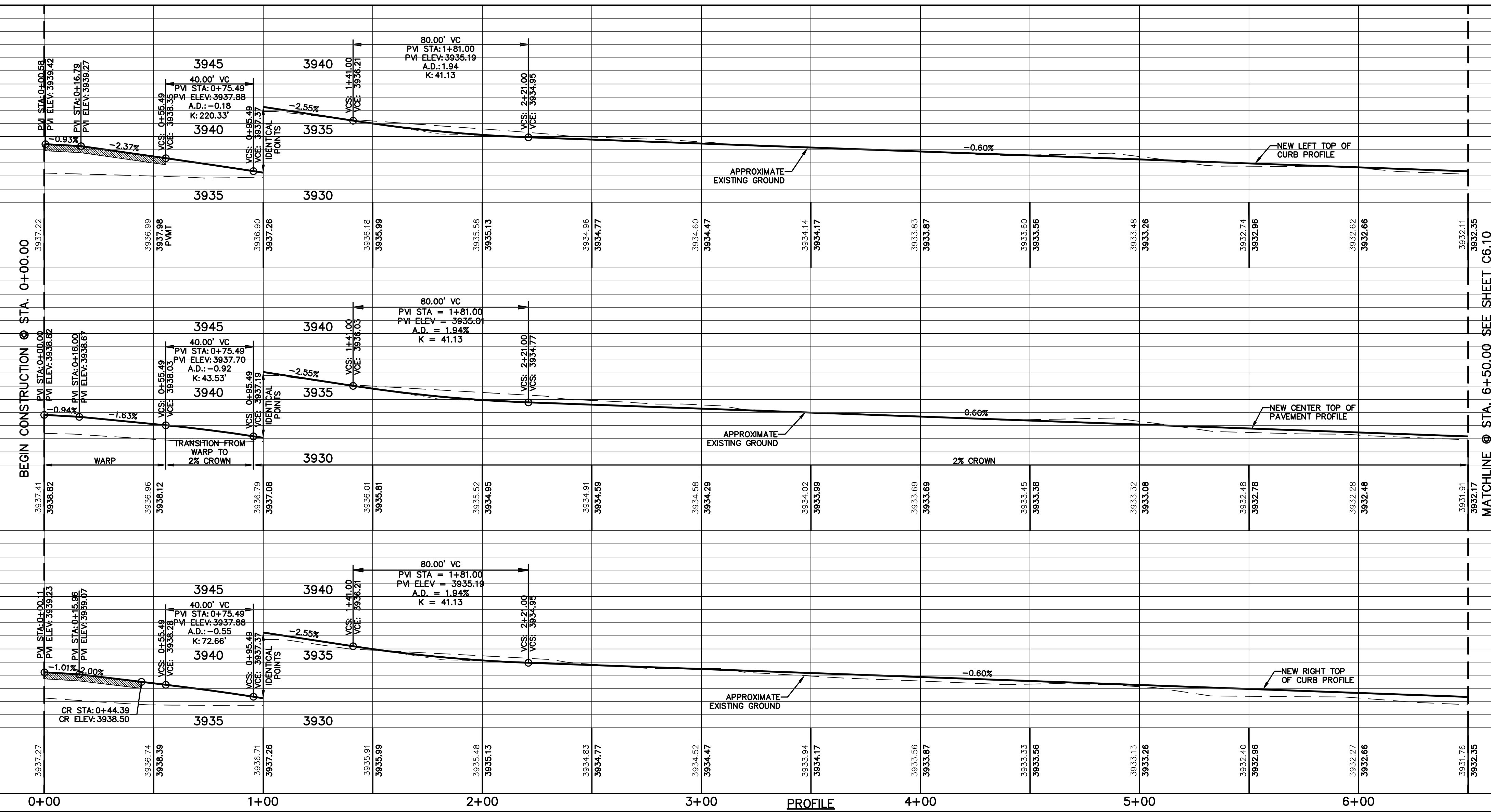
WARNING!
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CALL 811
 FOR FIELD LOCATING EXISTING UTILITIES

DATE	REVISIONS	BY

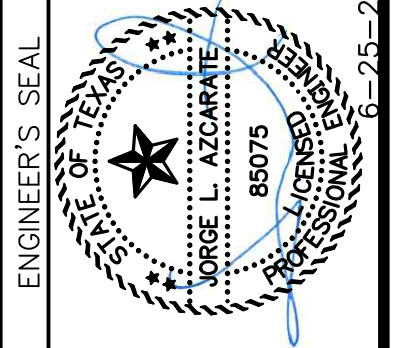


LEGEND

- DIRECTIONAL WHEELCHAIR RAMP IMPROVEMENTS BY BUILDER (TYP.)
- PROPOSED STREET NAME SIGN & STOP SIGN



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CEA GROUP
 TEXAS REGISTERED ENGINEERING FIRM F-4564



SCALE: 1"=30'
 Horizontal: 1"=5'
 Vertical: 1"=5'
 Contour Interval: N/A
 DATE: JUNE 2020
 DESIGN BY: R.O.
 DRAWN BY: F.Z.
 CHKD. BY: J.L.A.
 APPVD. BY: J.L.A.
 JOB No. 2000-223

PROJECT TITLE
HIDDEN VILLAGE AVENUE UNIT TWO SUBDIVISION IMPROVEMENTS

SHEET TITLE
HIDDEN CLOVE AVENUE PLAN & PROFILE FROM STA. 0+00.00 TO STA. 6+50.00

SHEET NO.
C6.9

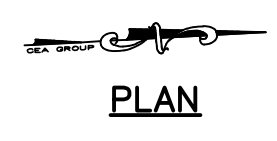
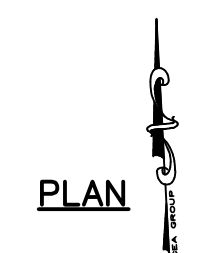
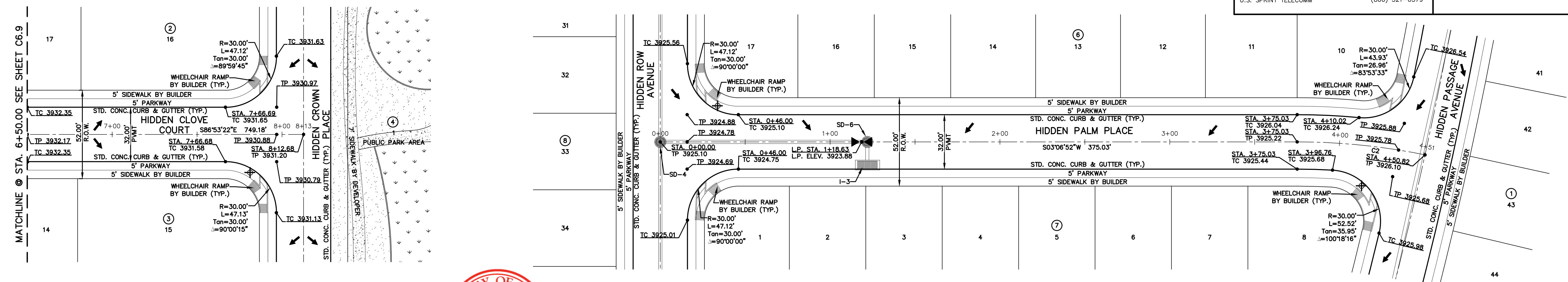
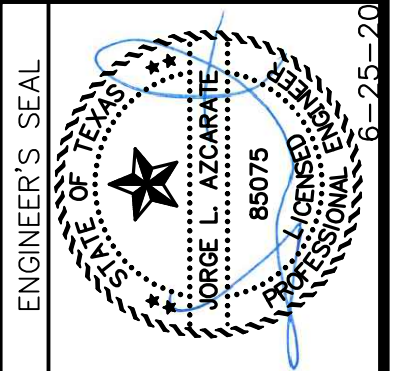
CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C2	375.00'	75.80'	38.03'	75.67'	S08°54'18"W	011°34'52"

UTILITY LOCATOR SERVICES		
EL PASO ELECTRIC COMPANY	(915) 543-5720	
EL PASO ENERGY CORPORATION	(915) 496-5244	
EL PASO WATER UTILITIES	(915) 594-5500	
MCI SURVEILLANCE	(800) MCI-WORK	
TIME WARNER COMMUNICATIONS	(915) 772-1123	
TEXAS GAS SERVICE	(915) 680-7200	
SBC	(800) 945-6005	
AT&T	(800) 852-3786	
U.S. SPRINT TELECOMM	(800) 521-0579	

WARNING!
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CALL 811
FOR FIELD LOCATING EXISTING UTILITIES

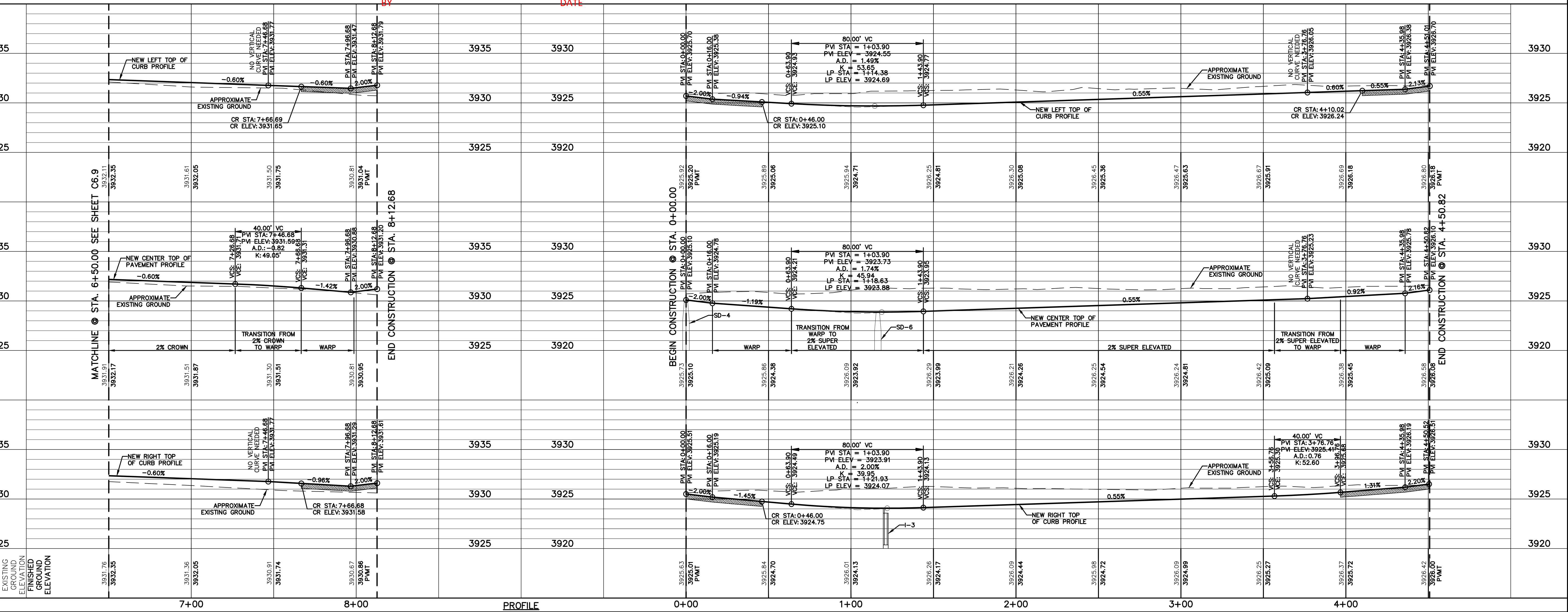
DATE	REVISIONS	BY

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Suite 300
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TEXAS REGISTERED ENGINEERING FIRM F-4564



- LEGEND**
- DIRECTIONAL WHEELCHAIR RAMP IMPROVEMENTS BY BUILDER (TYP.)
 - PVI ELEVATIONS ARE SHOWN AT TOP OF CURB. REFER TO PLAN VIEW FOR TOP OF PAVEMENT ELEVATIONS.
 - PROPOSED STREET NAME SIGN & STOP SIGN
 - SIDEWALK BY DEVELOPER REFER TO PARK PLANS

Oscar Villalobos 07/01/2020



SCALE: 1"=30'
Horizontal: 1"=5'
Vertical: 1"=5'
Contour Interval: N/A
DATE: JUNE 2020
DESIGN BY: R.O.
DRAWN BY: F.Z.
CHKD. BY: J.L.A.
APPD. BY: J.L.A.
JOB No.: 2000-223

PROJECT TITLE
**HIDDEN VILLAGE
UNIT TWO
SUBDIVISION IMPROVEMENTS**

SHEET TITLE
**HIDDEN CLOVE AVENUE
PLAN & PROFILE
FROM STA. 6+50.00
TO STA. 8+12.68**

**HIDDEN PALM PLACE
PLAN & PROFILE
FROM STA. 0+00.00
TO STA. 4+50.82**

SHEET NO.

C6.10

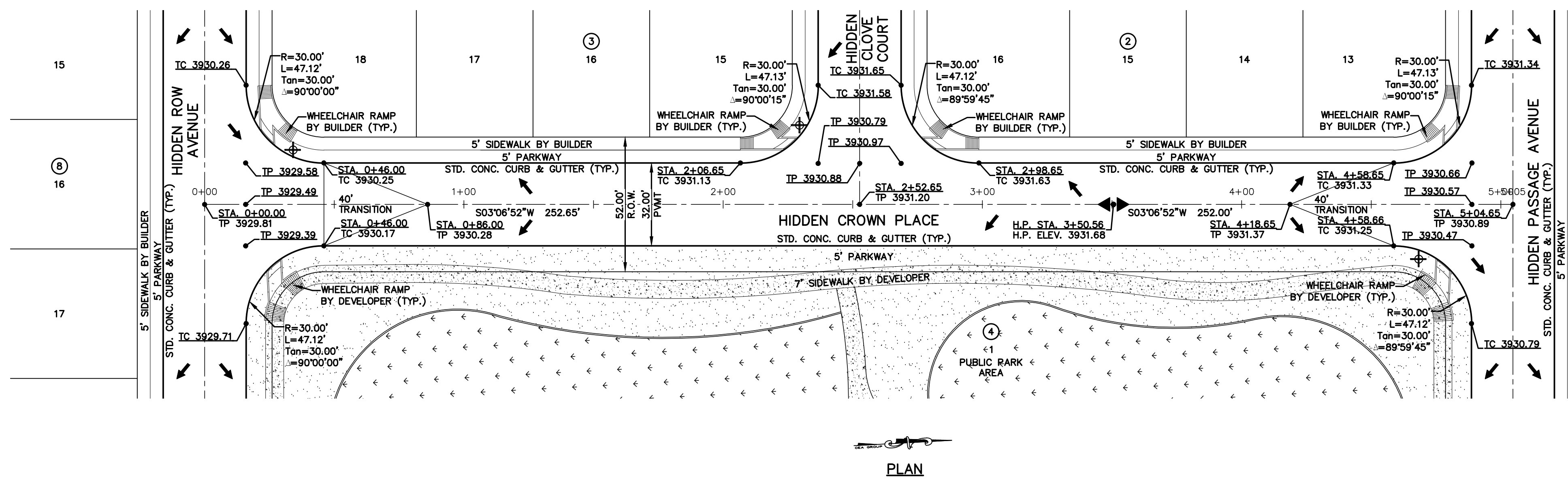
UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5500
MCI SURVEILLANCE	(800) MCI-WORK
TIME WARNER COMMUNICATIONS	(915) 772-1123
TEXAS GAS SERVICE	(915) 680-7200
SBC	(800) 945-6005
AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579

WARNING!
BEFORE YOU DIG
CALL 811
FOR FIELD LOCATING EXISTING UTILITIES

DATE	REVISIONS	BY

REFERENCES - BENCHMARKS
CITY MONUMENT LOCATED AT THE CENTERLINE INTERSECTION OF CLYDESDALE DRIVE AND PALOMINO STREET. THE NORTH AMERICAN VERTICAL DATUM IS ELEVATION = 3939.32 (NAD 86).

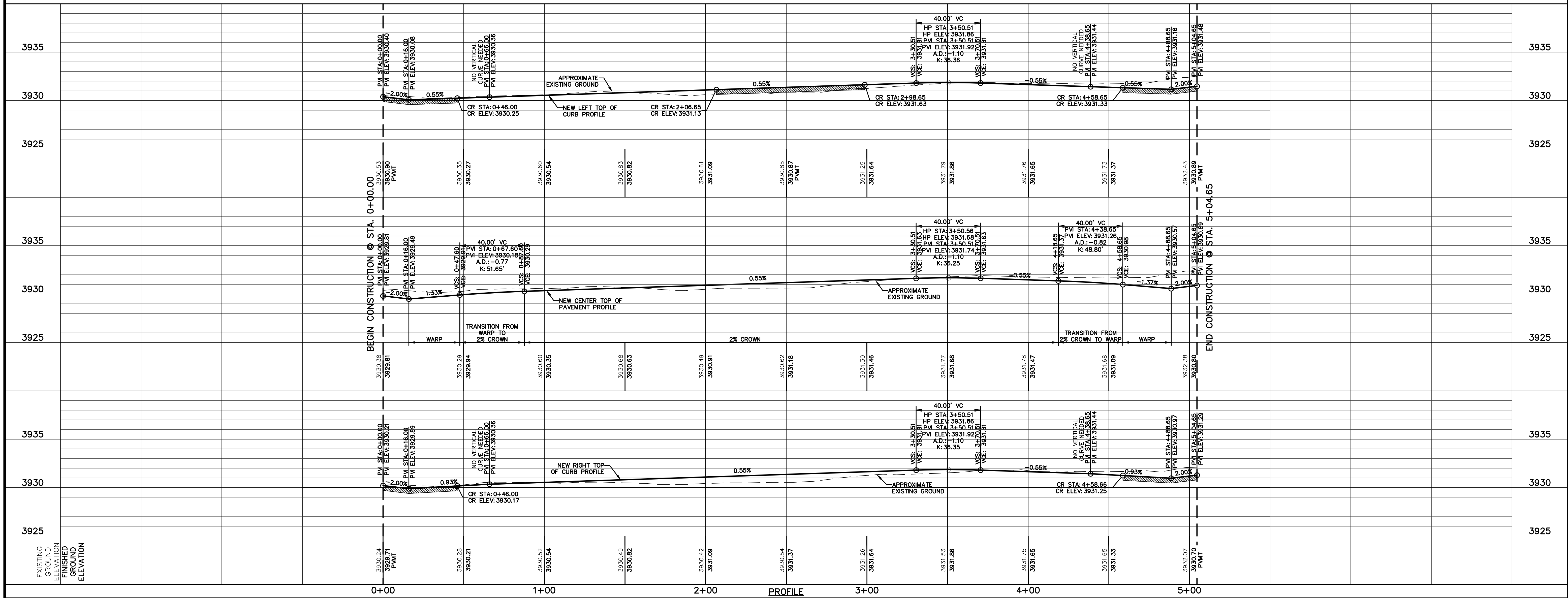
813 N. Kansas St.
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El Paso, TX 79902
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www.ceagroup.net
TEXAS REGISTERED ENGINEERING FIRM F-4564



Oscar Villalobos
BY
DATE



- LEGEND**
- DIRECTIONAL WHEELCHAIR RAMP IMPROVEMENTS BY BUILDER (TYP.)
 - PVI ELEVATIONS ARE SHOWN AT TOP OF CURB. REFER TO PLAN VIEW FOR TOP OF PAVEMENT ELEVATIONS.
 - PROPOSED STREET NAME SIGN & STOP SIGN
 - SIDEWALK BY DEVELOPER REFER TO PARK PLANS



SCALE: 1"=30'

Horizontal: 1"=5'

Vertical: 1"=5'

Contour Interval: N/A

DATE: JUNE 2020

DESIGN BY: R.O.

DRAWN BY: F.Z.

CHKD. BY: J.L.A.

APPVD. BY: J.L.A.

JOB No. 2000-223

PROJECT TITLE
**HIDDEN VILLAGE
UNIT TWO
SUBDIVISION IMPROVEMENTS**

SHEET TITLE
**HIDDEN CROWN
PLACE
PLAN & PROFILE
FROM STA. 0+00.00
TO STA. 5+04.65**

SHEET NO.
C6.11

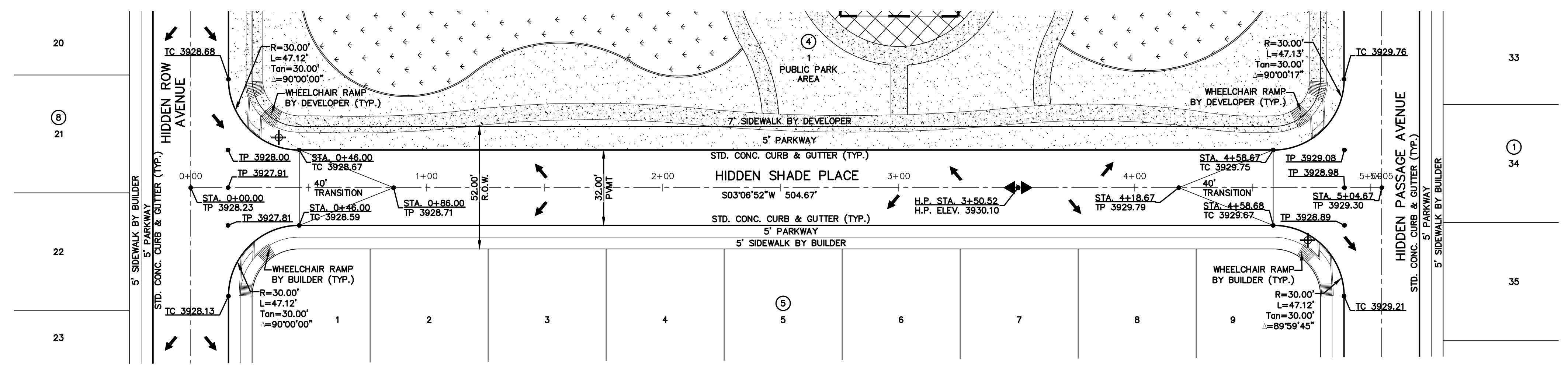
UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5500
MCI SURVEILLANCE	(800) MCI-WORK
TIME WARNER COMMUNICATIONS	(915) 772-1123
TEXAS GAS SERVICE	(915) 680-7200
SBC	(800) 945-6005
AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579

WARNING!
BEFORE YOU DIG
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FOR FIELD LOCATING EXISTING UTILITIES

DATE	REVISIONS	BY

REFERENCES - BENCHMARKS
CITY MONUMENT LOCATED AT THE CENTERLINE INTERSECTION OF CLYDESDALE DRIVE AND PALOMINO STREET, THE NORTH AMERICAN VERTICAL DATUM IS ELEVATION = 3939.32 (NAD 86).

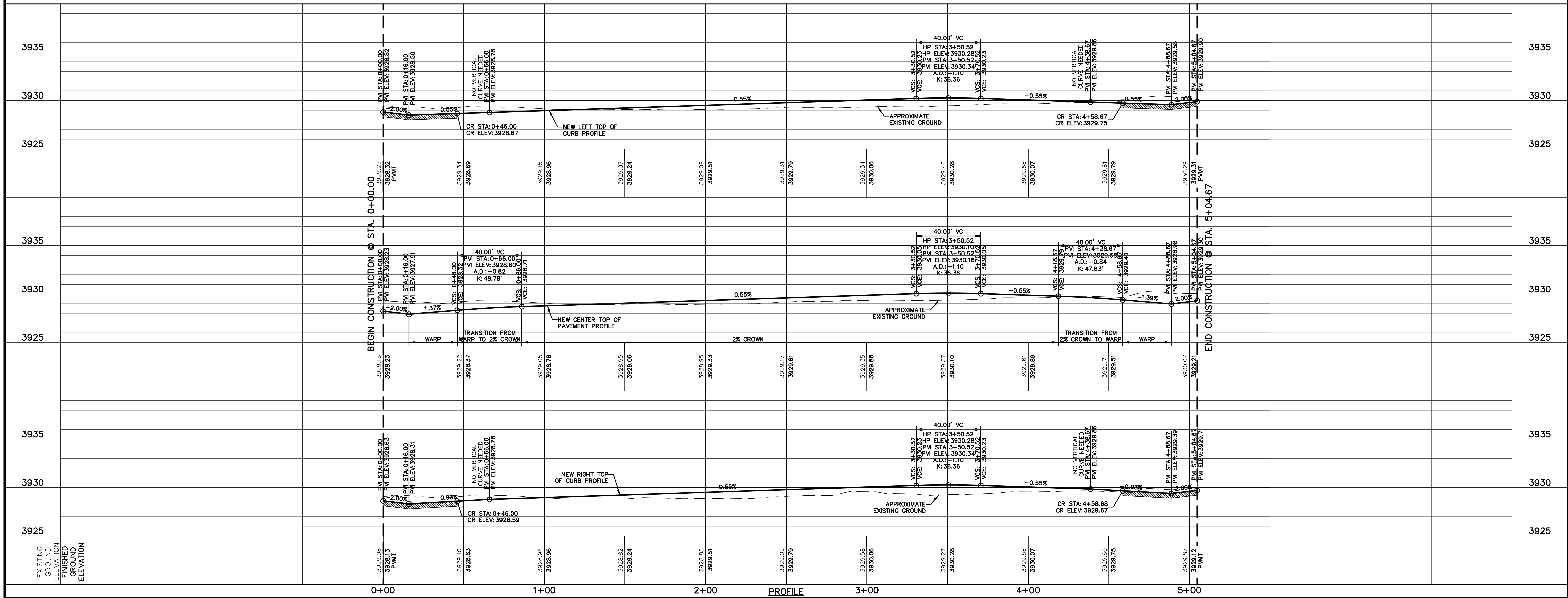
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TEXAS REGISTERED ENGINEERING FIRM F-4564



Oscar Villalobos 07/01/2020
BY DATE

- LEGEND**
- DIRECTIONAL WHEELCHAIR RAMP IMPROVEMENTS BY BUILDER (TYP.)
 - PVI ELEVATIONS ARE SHOWN AT TOP OF CURB. REFER TO PLAN VIEW FOR TOP OF PAVEMENT ELEVATIONS.
 - PROPOSED STREET NAME SIGN & STOP SIGN
 - SIDEWALK BY DEVELOPER REFER TO PARK PLANS

PLAN



SCALE: 1"=30'
Horizontal: 1"=5'
Vertical: 1"=5'
Contour Interval: N/A
DATE: JUNE 2020
DESIGN BY: R.O.
DRAWN BY: F.Z.
CHKD. BY: J.L.A.
APPVD. BY: J.L.A.
JOB No. 2000-223

PROJECT TITLE
**HIDDEN VILLAGE
UNIT TWO
SUBDIVISION IMPROVEMENTS**

SHEET TITLE
**HIDDEN SHADE
PLACE
PLAN & PROFILE
FROM STA. 0+00.00
TO STA. 5+04.67**

SHEET NO.

C6.12



Oscar Villalobos 07/01/2020
 BY DATE

UTILITY LOCATOR SERVICES

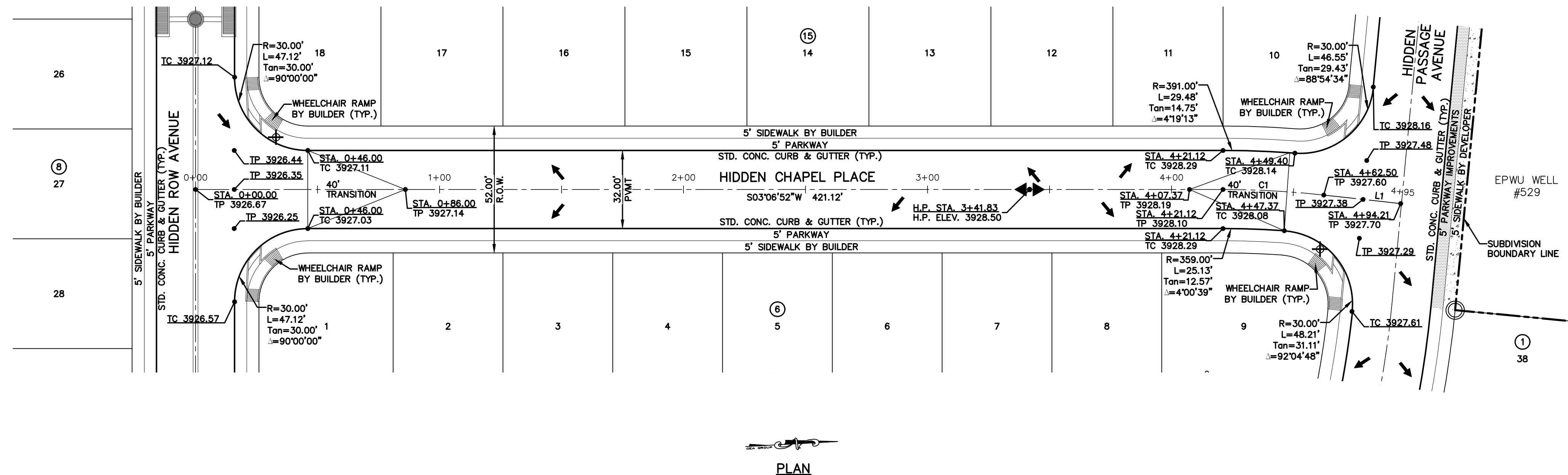
EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5500
MCI SURVEILLANCE	(800) MCI-WORK
TIME WARNER COMMUNICATIONS	(915) 772-1123
TEXAS GAS SERVICE	(915) 680-7200
SBC	(800) 945-6005
AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579

WARNING!
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CALL 811
 FOR FIELD LOCATING EXISTING UTILITIES

REFERENCES - BENCHMARKS

CITY MONUMENT LOCATED AT THE CENTERLINE INTERSECTION OF CLYDEDALE DRIVE AND PALOMINO STREET, THE NORTH AMERICAN VERTICAL DATUM IS ELEVATION = 3939.32 (NAD 86).

DATE	REVISIONS	BY



LINE TABLE

LINE	BEARING	LENGTH
L1	S09°26'11"W	31.71'

CURVE TABLE

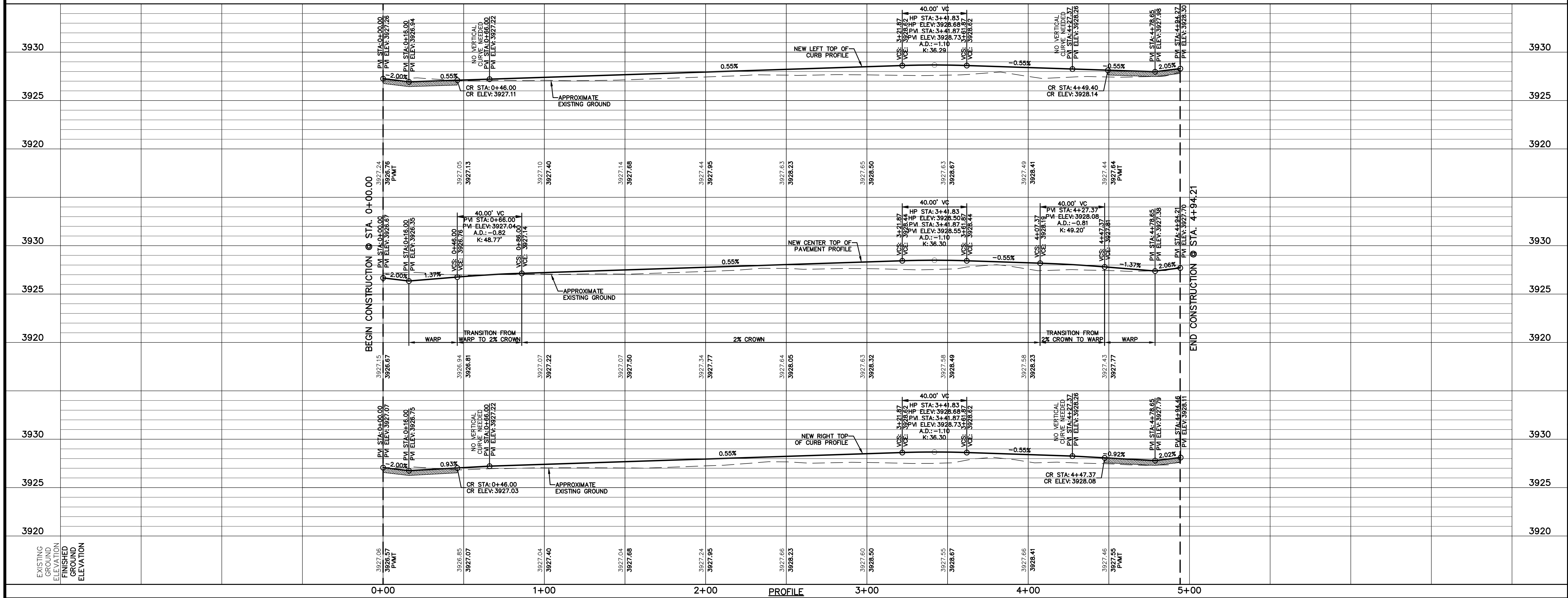
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	375.00'	41.38'	20.71'	41.36'	S06°16'32"W	006°19'19"

- LEGEND**
- DIRECTIONAL WHEELCHAIR RAMP IMPROVEMENTS BY BUILDER (TYP.)
 - PVI ELEVATIONS ARE SHOWN AT TOP OF CURB. REFER TO PLAN VIEW FOR TOP OF PAVEMENT ELEVATIONS.
 - PROPOSED STREET NAME SIGN & STOP SIGN
 - SIDEWALK BY DEVELOPER REFER TO PARK PLANS
 - PARKWAY IMPROVEMENTS BY DEVELOPER TO CONSIST OF 3/4" LANDSCAPE ROCK WITH WEED BARRIER FABRIC COLOR TO BE SELECTED BY DEVELOPER

813 N. Kansas St.
 Suite 300
 El Paso, TX 79902
 915.544.5232
 www.ceagroup.net

CEA GROUP
 TEXAS REGISTERED ENGINEERING FIRM F-4564

ENGINEER'S SEAL
 JORGE L. AZARTE
 80075
 LICENSED PROFESSIONAL ENGINEER



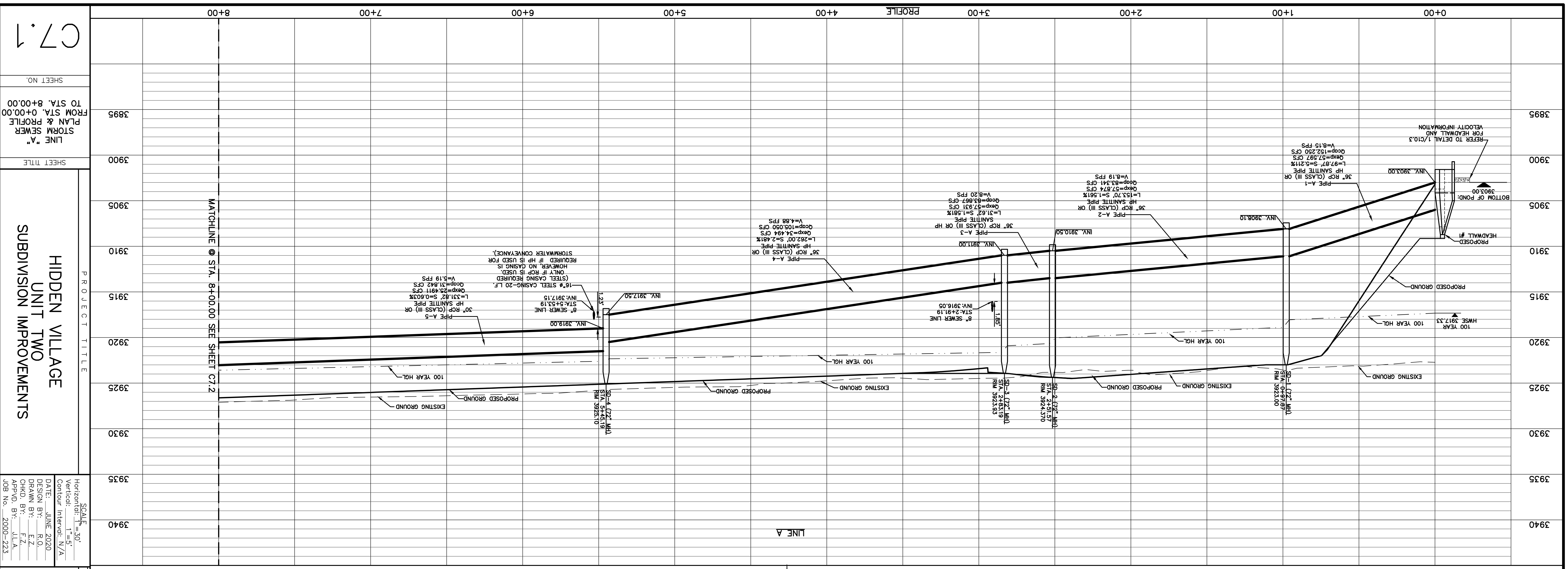
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 Vertical: 1" = 5'
 Contour Interval: N/A

DATE: JUNE 2020
 DESIGN BY: R.O.
 DRAWN BY: F.Z.
 CHKD. BY: J.L.A.
 APPVD. BY: J.L.A.
 JOB No. 2000-223

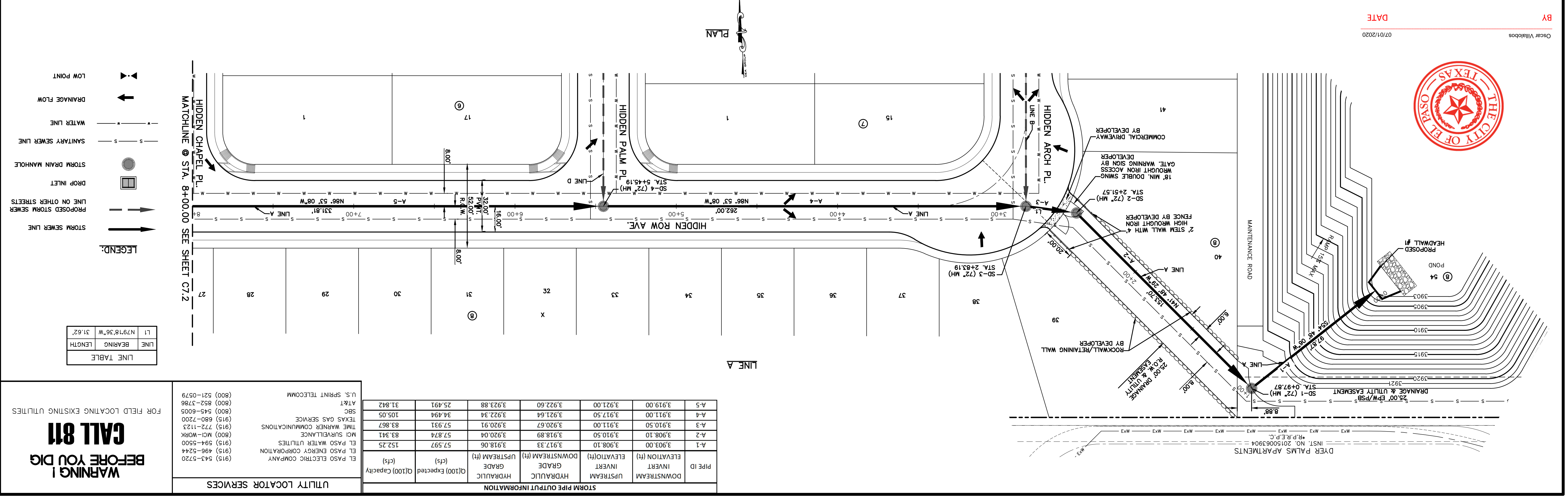
PROJECT TITLE
**HIDDEN VILLAGE
 UNIT TWO
 SUBDIVISION IMPROVEMENTS**

SHEET TITLE
**HIDDEN CHAPEL
 PLACE
 PLAN & PROFILE
 FROM STA. 0+00.00
 TO STA. 4+94.21**

SHEET NO.
C6.13



SHEET NO. C 7.1
 SHEET TITLE
 PROJECT TITLE
 HIDDEN VILLAGE UNIT TWO SUBDIVISION IMPROVEMENTS
 SCALE
 Vertical: 1"=30'
 Horizontal: 1"=50'
 Contour Interval: N/A
 DATE: JUNE 2020
 DESIGN BY: R.O.
 DRAWN BY: E.Z.
 CKD. BY: F.Z.
 APPVD. BY: J.L.A.
 JOB NO. 2000-223



PIPE ID	DOWNSTREAM	UPSTREAM	UPSTREAM	INVERT	GRADE	HYDRAULIC	HYDRAULIC	UPSTREAM	INVERT
	ELEVATION (ft)	ELEVATION (ft)	ELEVATION (ft)	ELEVATION (ft)	GRADE	UPSTREAM (ft)	DOWNSTREAM (ft)	ELEVATION (ft)	ELEVATION (ft)
A-1	3,903.00	3,908.10	3,917.33	3,918.06		3,921.00	3,922.60	3,923.88	25.491
A-2	3,908.10	3,910.50	3,918.89	3,920.04		3,921.50	3,921.64	3,922.34	34.494
A-3	3,908.10	3,911.00	3,920.67	3,920.91		3,911.00	3,920.67	3,920.91	57.931
A-4	3,911.00	3,917.50	3,921.64	3,922.34		3,917.50	3,921.64	3,922.34	34.494
A-5	3,919.00	3,921.00	3,921.00	3,922.60		3,921.00	3,922.60	3,923.88	31.842

LINE	BEARING	LENGTH
L1	N79°18'36"W	31.62'

UTILITY LOCATOR SERVICES	REFERENCES - BENCHMARKS
EL PASO ELECTRIC COMPANY (915) 543-5220	CITY MONUMENT LOCATED AT THE CENTURINE INTERSECTION OF CUYOCOSALE DRIVE AND PALOMINO STREET, THE NORTH AMERICAN VERTICAL DATUM IS ELEVATION = 3939.32 (NVD 88)
EL PASO ENERGY CORPORATION (915) 496-5244	
EL PASO WATER UTILITIES (915) 594-5500	
MCI SURVEILLANCE (800) MCI-WORK	
TIME WARNER COMMUNICATIONS (915) 772-1123	
TEXAS GAS SERVICE (915) 650-7300	
AT&T (800) 452-3786	
U.S. SPRINT TELECOMM (800) 521-0579	

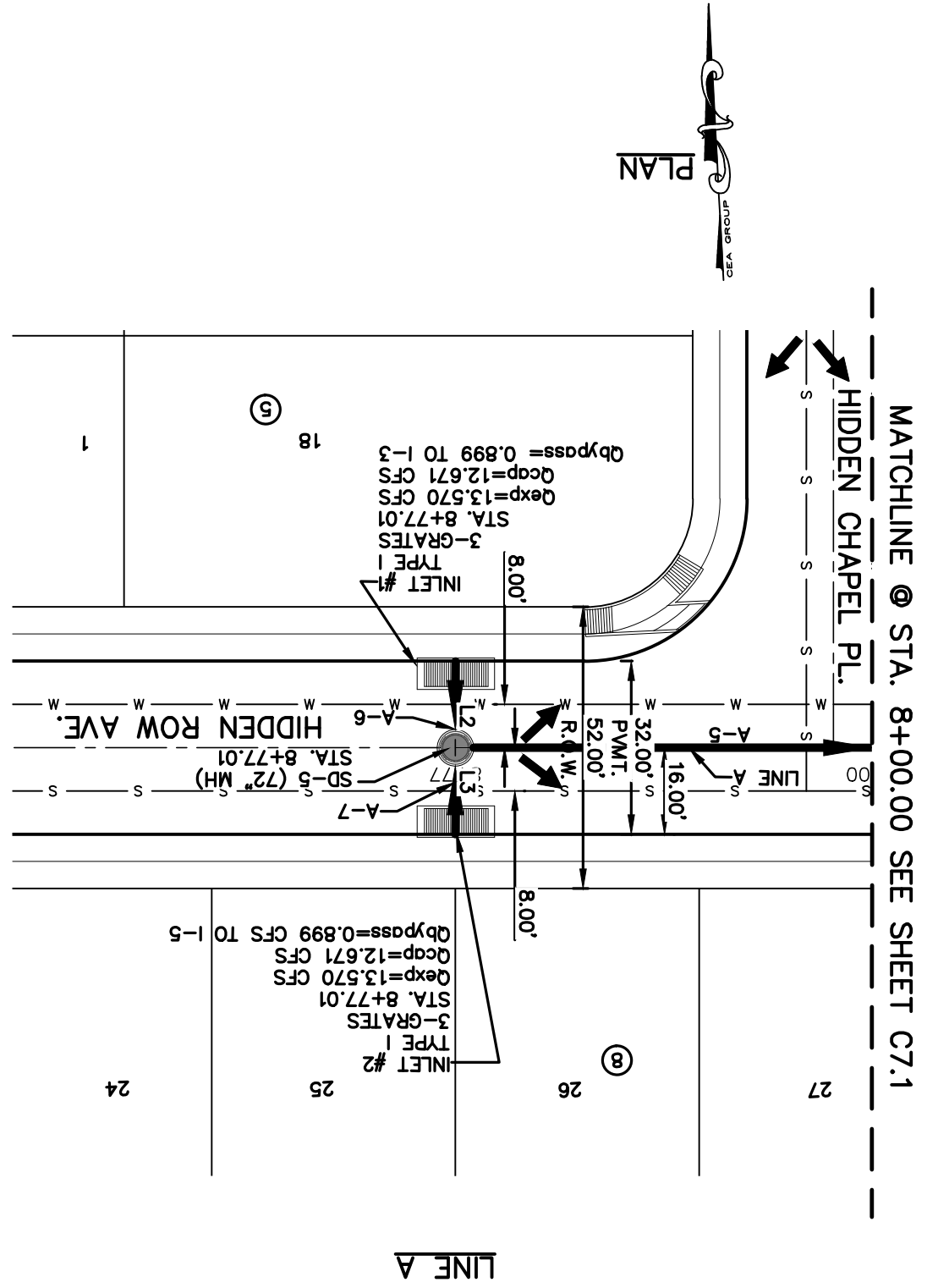
WARNING! BEFORE YOU DIG CALL 811
 FOR FIELD LOCATING EXISTING UTILITIES
 ENGINEER'S SEAL

 JORGE L. AZCARATE
 39075
 TEXAS REGISTERED ENGINEERING FIRM F-4564
 813 N. Kansas St.
 Suite 300
 El Paso, TX 79902
 El Paso, TX 79902
 915.544.5232
 www.cegroup.net
 DATE
 REVISIONS
 BY

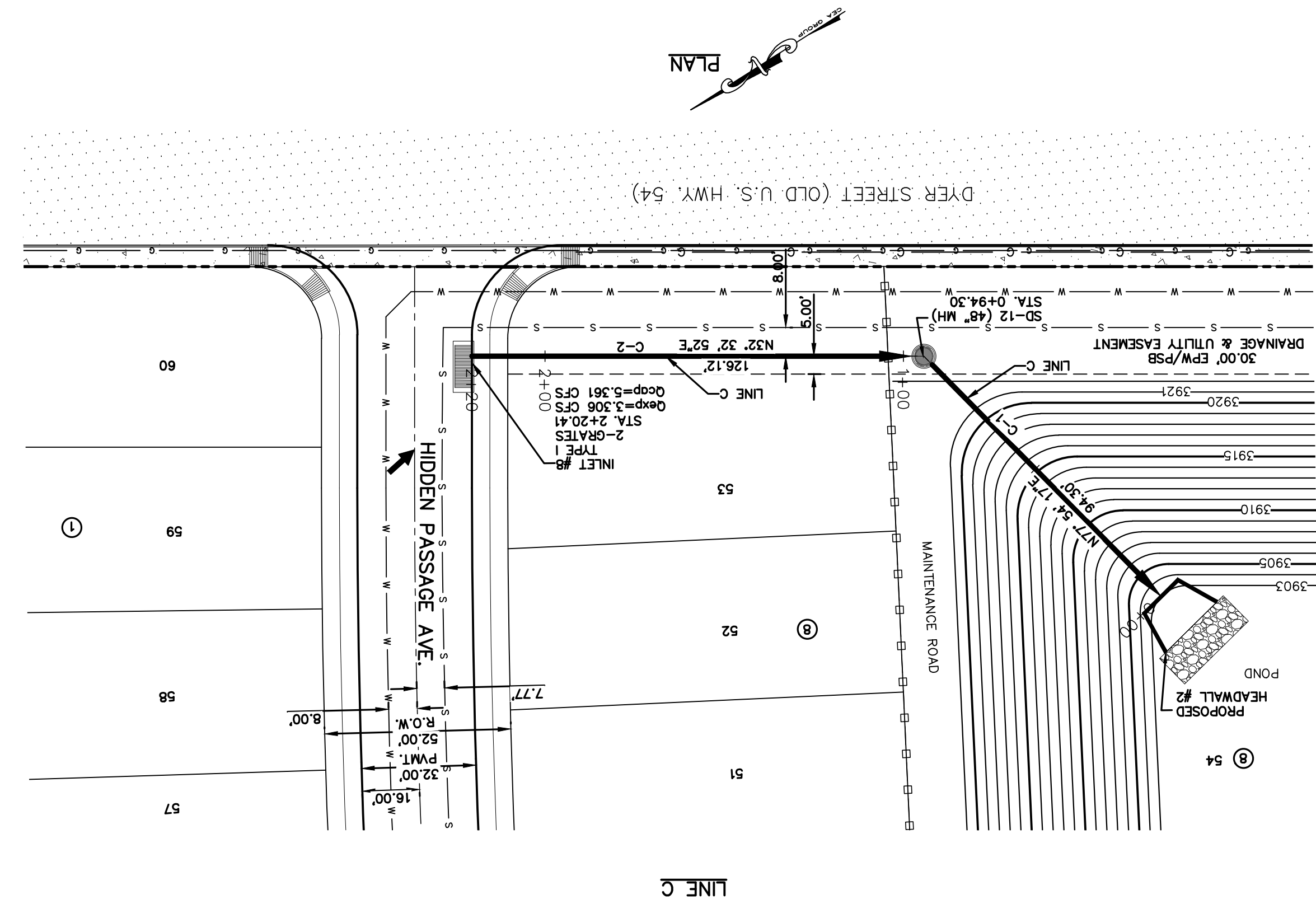
Oscar Villalobos
 DATE 07/01/2020



Dyer Pals Apartments
 INST. NO. 20150063904
 R.P.R.C.

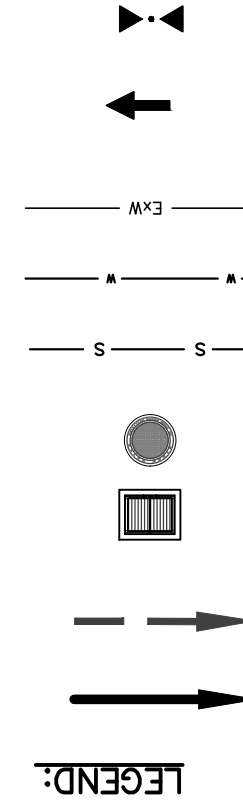


BY Oscar Villalobos
DATE 07/01/2020



LINE TABLE

LINE	BEARING	LENGTH
L1	S0706.52°W	16.00'
L2	N0306.52°E	16.00'



STORM PIPE OUTPUT INFORMATION

PIPE ID	UPSTREAM ELEVATION (ft)	INVERT ELEVATION (ft)	DOWNSTREAM ELEVATION (ft)	HYDRAULIC GRADE	UPSTREAM (ft)	Q(100) Expected (cfs)	Q(100) Capacity
A-6	3.921.00	3.921.25	3.924.17	3.924.22	12.84	28.276	28.276
A-7	3.921.00	3.921.25	3.924.17	3.924.22	12.757	28.276	28.276
C-1	3.903.00	3.917.33	3.917.47	3.918.55	3.332	39.00	39.00
C-2	3.916.00	3.917.85	3.917.85	3.917.85	3.332	12.72	12.72

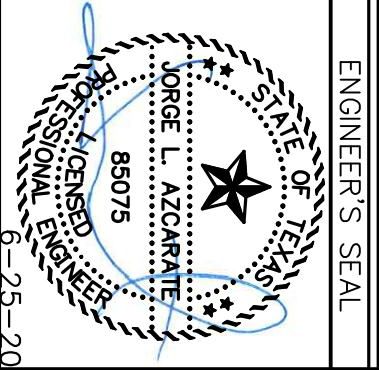
UTILITY LOCATOR SERVICES

EL PASO ELECTRIC COMPANY (915) 543-5720
 EL PASO WATER UTILITIES (915) 594-5500
 MCI SURVEILLANCE (800) MCI-WORK
 TIME WARNER COMMUNICATIONS (915) 772-1123
 TEXAS GAS SERVICE (800) 545-6000
 AT&T (800) 452-3786
 U.S. SPRINT TELECOMM (800) 521-0579

FOR FIELD LOCATING EXISTING UTILITIES

CALL 811 BEFORE YOU DIG!

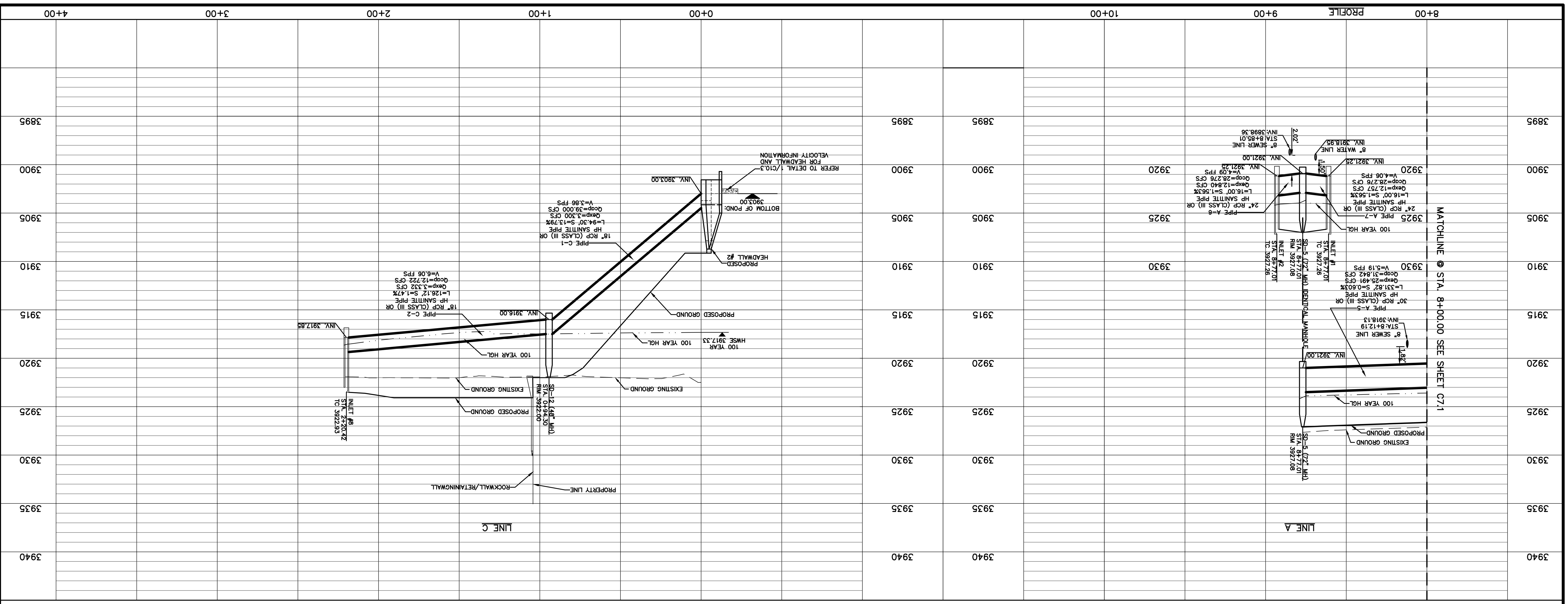
ENGINEER'S SEAL



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Suite 300
El Paso, TX 79902
915.544.5232
www.ceagroup.net
TEXAS REGISTERED ENGINEERING FIRM F-4564

REFERENCES - BENCHMARKS

DATE	REVISIONS	BY



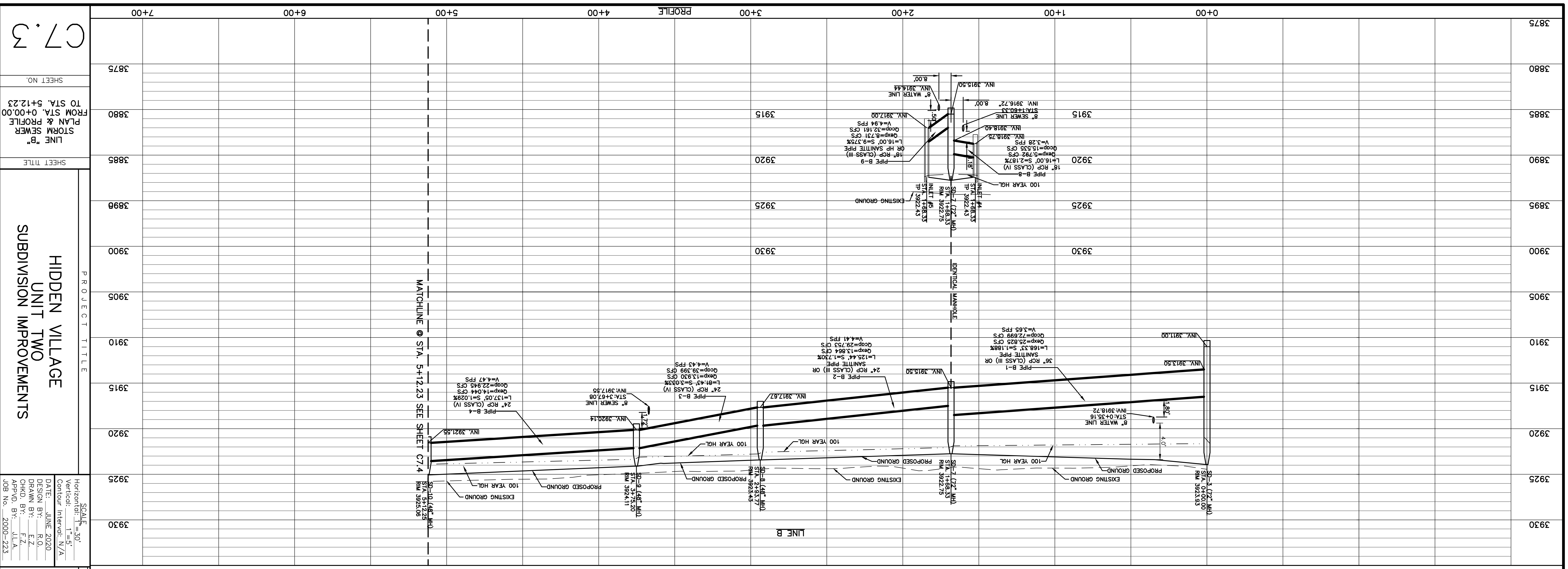
PROJECT TITLE
HIDDEN VILLAGE UNIT TWO SUBDIVISION IMPROVEMENTS

SCALE
Horizontal: 1"=30'
Vertical: 1"=5'

DATE: JUNE 2020
DESIGN BY: R.O.
DRAWN BY: F.Z.
CHKD. BY: J.L.A.
APPVD. BY: J.L.A.
JOB No. 2000-223

SHEET TITLE
LINE "A" STORM SEWER PLAN & PROFILE FROM STA. 8+00.00 TO STA. 8+77.01
LINE "C" STORM SEWER PLAN & PROFILE FROM STA. 0+00.00 TO STA. 2+20.42

SHEET NO.
C7.2



PROJECT TITLE
**HIDDEN VILLAGE
 UNIT TWO
 SUBDIVISION IMPROVEMENTS**

SHEET TITLE
**LINE "B"
 STORM SEWER
 PLAN & PROFILE
 FROM STA. 0+00.00
 TO STA. 5+12.23**

SHEET NO.
C7.3

SCALE
 Horizontal: 1"=30'
 Vertical: 1"=5'
 Contour Interval: N/A

DATE: JUNE 2020
 DESIGN BY: R.O.
 DRAWN BY: F.Z.
 CHKD. BY: J.L.A.
 APPVD. BY: J.L.A.
 JOB No.: 2000-223

ENGINEER'S SEAL

DATE: 07/01/2020
BY: Oscar Villalobos

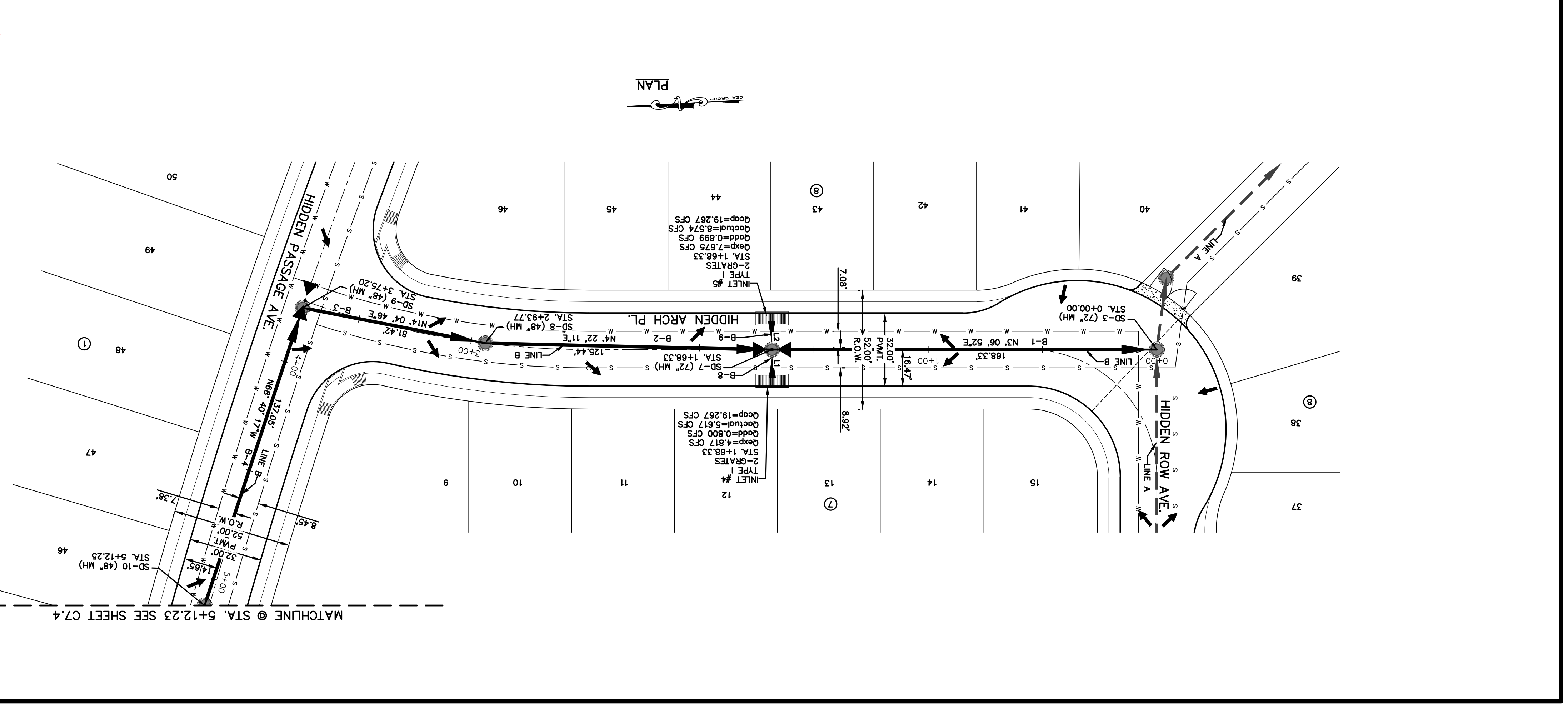
LEGEND:

- STORM SEWER LINE
- PROPOSED STORM SEWER LINE ON OTHER STREETS
- DROP INLET
- STORM DRAIN MANHOLE
- SANITARY SEWER LINE
- WATER LINE
- EXISTING WATER LINE
- DRAINAGE FLOW
- LOW POINT

PIPE ID	HYDRAULIC INVERT	UPSTREAM ELEVATION (ft)	DOWNSTREAM ELEVATION (ft)	GRADE INVERT	HYDRAULIC GRADE	Q(100) Expected (cfs)	Q(100) Capacity (cfs)
B-1	3,913.50	3,915.50	3,921.64	3,921.89	3,922.57	13.864	29.753
B-2	3,915.50	3,917.67	3,922.10	3,922.81	3,923.12	13.93	39.399
B-3	3,917.67	3,920.14	3,923.10	3,923.81	3,923.89	14.044	22.945
B-4	3,918.40	3,921.55	3,923.10	3,923.81	3,923.89	14.044	22.945
B-8	3,918.40	3,922.10	3,922.10	3,922.15	3,922.15	5.792	15.535
B-9	3,915.50	3,917.00	3,922.10	3,922.21	3,922.21	8.731	32.161

LINE TABLE

LINE	BEARING	LENGTH
L2	N88°02'38"W	16.00'
L1	N87°37'00"W	16.00'



WARNING! BEFORE YOU DIG

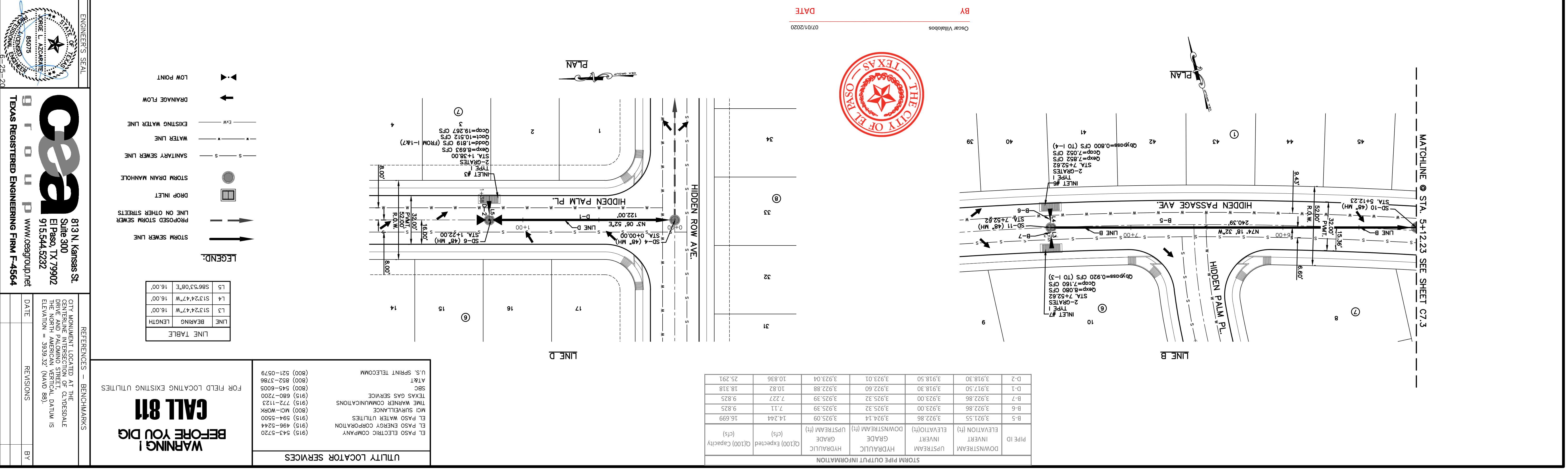
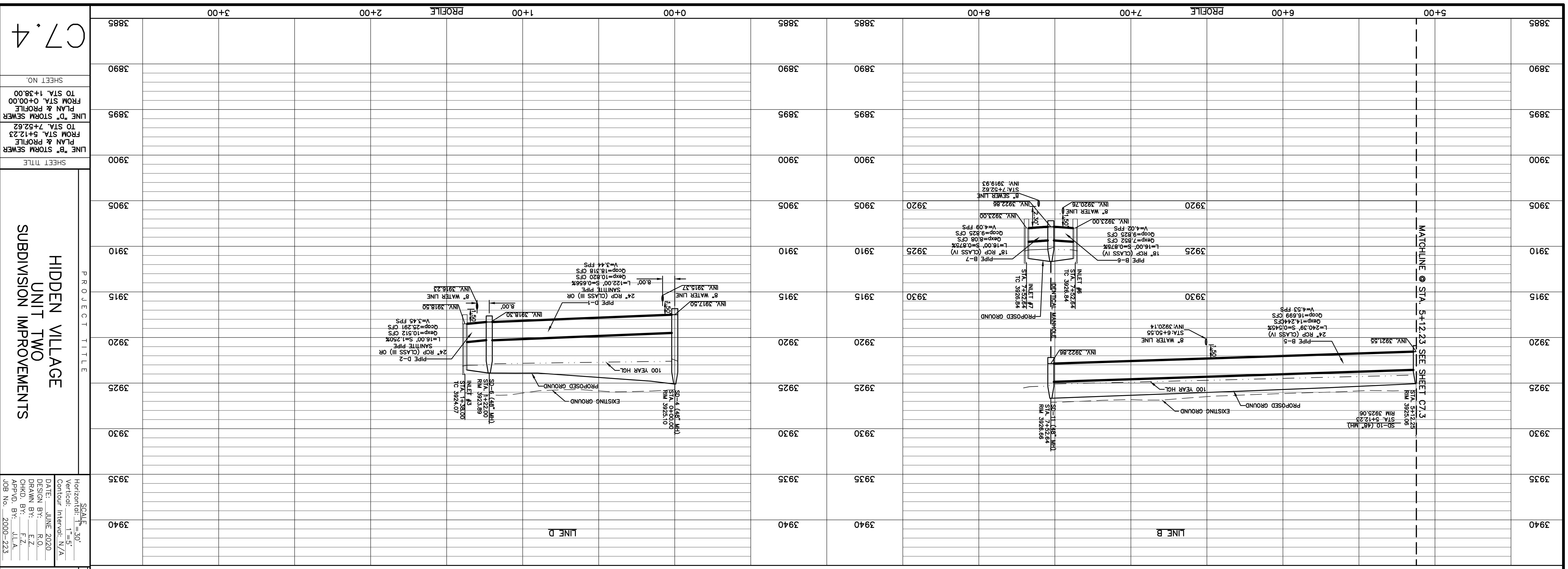
CALL 811

FOR FIELD LOCATING EXISTING UTILITIES

MATCHLINE @ STA. 5+12.23 SEE SHEET C7.4

REFERENCES - BENCHMARKS
 CITY MONUMENT LOCATED AT THE CENTURINE INTERSECTION OF CLYDESALE DRIVE AND PALOMINO STREET, THE NORTH AMERICAN VERTICAL DATUM IS ELEVATION = 3939.32 (NAD 88).

UTILITY LOCATOR SERVICES
 EL PASO ELECTRIC COMPANY (915) 543-5720
 EL PASO WATER UTILITIES (915) 594-5500
 MCI SURVEILLANCE (800) MCI-WORK
 TIME WARNER COMMUNICATIONS (915) 772-1123
 TEXAS GAS SERVICE (800) 545-6000
 AT&T (800) 452-3786
 U.S. SPRINT TELECOMM (800) 521-0579

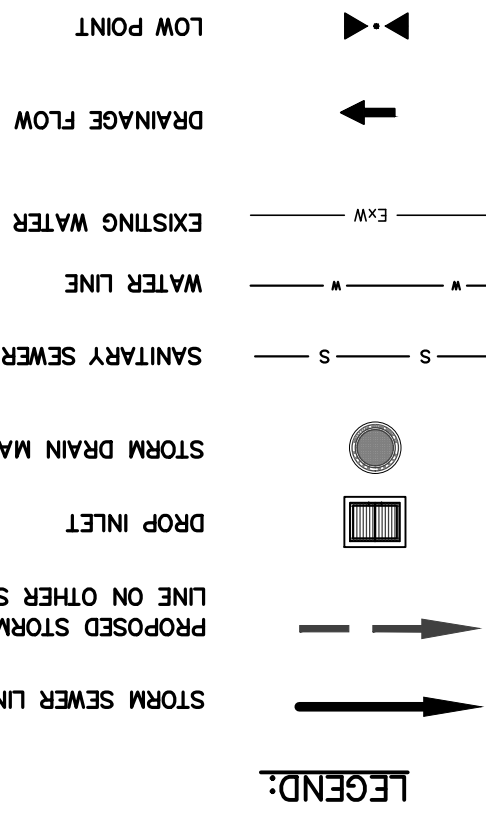


STORM PIPE OUTPUT INFORMATION

PIPE ID	DOWNSTREAM INVERT	UPSTREAM GRADE	HYDRAULIC GRADE	ELEVATION (ft)	DOWNSTREAM (ft)	UPSTREAM (ft)	HYDRAULIC Q(100) Expected (cfs)	Q(100) Capacity (cfs)
B-5	3,921.55	3,922.86	3,924.14	3,925.09	14.244	16.699		
B-6	3,922.86	3,923.00	3,925.32	3,925.39	9.825	9.825		
B-7	3,922.86	3,923.00	3,925.32	3,925.39	7.11	9.825		
D-1	3,917.50	3,918.30	3,922.60	3,922.88	10.82	18.318		
D-2	3,918.30	3,918.50	3,923.01	3,923.04	10.836	25.291		

LINE TABLE

LINE	BEARING	LENGTH
L5	S86°53'08"E	16.00'
L4	S13°24'47"W	16.00'
L3	S13°24'47"W	16.00'



WARNING! BEFORE YOU DIG

CALL 811

FOR FIELD LOCATING EXISTING UTILITIES

UTILITY LOCATOR SERVICES

EL PASO ELECTRIC COMPANY (915) 543-5720
 EL PASO ENERGY CORPORATION (915) 496-5244
 EL PASO WATER UTILITIES (915) 594-5500
 MCI SURVEILLANCE (800) MCI-WORK
 TIME WARNER COMMUNICATIONS (915) 772-1123
 TEXAS GAS SERVICE (800) 545-6000
 AT&T (800) 452-3786
 U.S. SPRINT TELECOMM (800) 521-0579

REFERENCES - BENCHMARKS

CITY MONUMENT LOCATED AT THE CENTURINE INTERSECTION OF CLOYESDALE DRIVE AND PALOMINO STREET, THE NORTH AMERICAN VERTICAL DATUM IS ELEVATION = 3939.32 (NAD 83).

DATE: _____ REVISIONS: _____ BY: _____

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CEEGRA TEXAS REGISTERED ENGINEERING FIRM F-4564

ENGINEER'S SEAL: JORGE L. AZOARTE, 58075

SCALE: Horizontal: 1"=30', Vertical: 1"=5', Contour Interval: N/A

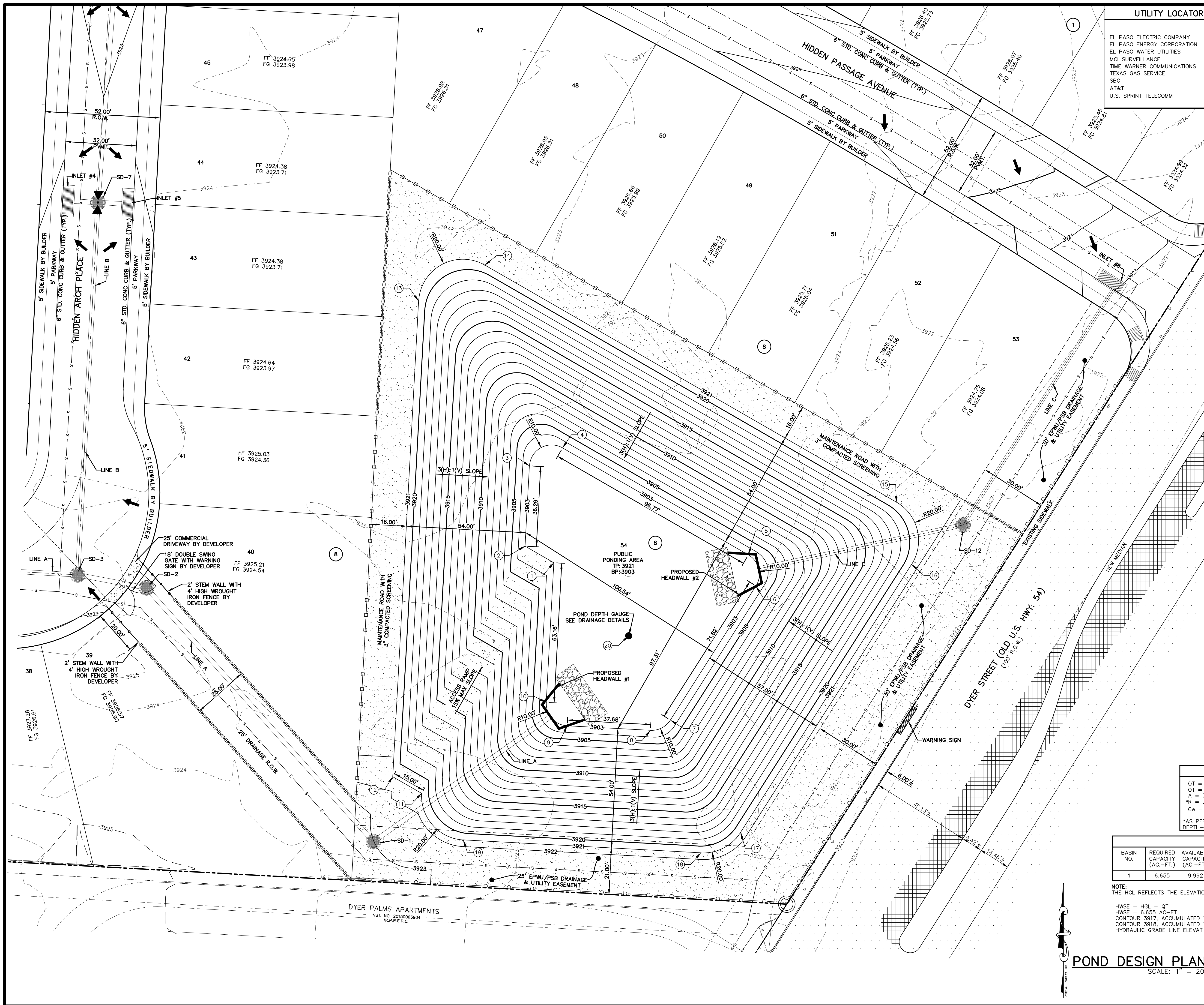
DATE: JUNE 2020
 DESIGN BY: R.O.
 DRAWN BY: E.Z.
 CKD. BY: F.Z.
 APPD. BY: J.L.A.
 JOB No.: 2000-223

PROJECT TITLE: HIDDEN VILLAGE UNIT TWO SUBDIVISION IMPROVEMENTS

SHEET TITLE: LINE "B" STORM SEWER PLAN & PROFILE FROM STA. 5+12.23 TO STA. 7+52.62

SHEET TITLE: LINE "D" STORM SEWER PLAN & PROFILE FROM STA. 0+00.00 TO STA. 1+38.00

SHEET NO.: C7.4



UTILITY LOCATOR SERVICES

EL PASO ELECTRIC COMPANY (915) 543-5720
 EL PASO ENERGY CORPORATION (915) 496-5244
 EL PASO WATER UTILITIES (915) 594-5500
 MCI SURVEILLANCE (800) MCI-WORK
 TIME WARNER COMMUNICATIONS (915) 772-1123
 TEXAS GAS SERVICE (915) 680-7200
 SBC (800) 545-6005
 AT&T (800) 852-3786
 U.S. SPRINT TELECOMM (800) 521-0579

WARNING!
BEFORE YOU DIG
CALL 811
 FOR FIELD LOCATING EXISTING UTILITIES

- GENERAL NOTES**
- REFERENCE SHEETS C5.1 FOR ADDITIONAL INFORMATION ON CROSS SECTIONS.
 - A PERCOLATION TEST WITHIN THE PROPOSED POND SHALL BE PERFORMED AT THE TIME OF EXCAVATION ACCORDING TO ASTM D-5126. THIS PERCOLATION TEST SHALL BE SUBMITTED FOR REVIEW AND APPROVAL TO AND BY EP WATER STORMWATER ENGINEERING. SUBSURFACE SOIL PROFILES SHALL BE PROVIDED TO A MINIMUM OF FIVE (5) FEET BELOW THE PROPOSED POND INVERT. STORMWATER SHALL PERCOLATE WITHIN SEVENTY-TWO (72) HOURS IN ACCORDANCE TO SECTION 11.4.3 OF THE CITY OF EL PASO'S DRAINAGE DESIGN MANUAL.
 - PROPOSED ROCKWALLS & RETAINING WALL LOCATIONS SHALL BE CONSTRUCTED ACCORDING TO GRADING SECTIONS.
 - REFERENCE LANDSCAPING PLANS FOR DETAIL INFORMATION ON NEW IMPROVEMENTS.
 - POND SLOPES SHALL BE STABILIZED WITH PIONEER'S PRIDE SEED MIXTURE (SEED RATE: 1 BULK PER 1000 SF) HYDROSEEDING AS PER MANUFACTURER'S RECOMMENDATION BY EWING IRRIGATION OR APPROVED EQUAL.

- LEGEND:**
- NEW 6' HIGH RETAINING ROCKWALL (2'-3' RETAINING HEIGHT) BY DEVELOPER
 - NEW 6' HIGH RETAINING ROCKWALL (3'-9' RETAINING HEIGHT) BY DEVELOPER
 - NEW 6' HIGH ROCKWALL (3'-9' RETAINING HEIGHT) BY DEVELOPER
 - PROPOSED MAJOR CONTOURS
 - PROPOSED MINOR CONTOURS
 - EXISTING MAJOR CONTOURS
 - EXISTING MINOR CONTOURS
 - FG 4075.00 FINISH GROUND ELEVATION
 - FF 4075.00 FINISH FLOOR ELEVATION
 - DRAINAGE FLOW
 - HIGH POINT
 - LOW POINT
 - WARNING SIGN

COORDINATE TABLE		
Point #	Northing	Easting
1	10715545.5653	416684.2790
2	10715553.0331	416671.2701
3	10715589.2736	416673.2421
4	10715597.3964	416688.2171
5	10715549.1084	416772.0815
6	10715535.0623	416775.5211
7	10715474.5247	416736.8832
8	10715469.9195	416727.9104
9	10715471.9666	416690.2891
10	10715482.4952	416680.8472
11	10715441.4941	416624.5363
12	10715448.9620	416611.5274
13	10715663.6482	416623.2091
14	10715679.8938	416653.1593
15	10715572.9245	416838.9389
16	10715544.8322	416845.8181
17	10715423.8136	416768.5784
18	10715414.6032	416750.6329
19	10715420.4370	416643.4201
20	10715512.5536	416718.0811

POND AREAS	
CONTOUR	ACCUMULATED VOLUME (AC.-FT.)
3921	9.992
3920	9.018
3919	8.102
3918	7.244
3917	6.441
3916	5.690
3915	4.992
3914	4.343
3913	3.743
3912	3.189
3911	2.679
3910	2.213
3909	1.787
3908	1.401
3907	1.052
3906	0.740
3905	0.461
3904	0.215
3903	0.000

POND CALCULATIONS

QT = (ARC)/12
 QT = 6.655 AC-FT
 A = 39.85
 *R = 3.34'
 Cw = 0.600

TOTAL_{req} = 6.655 AC-FT

*AS PER DDM FOR CENTRAL AREA, TABLE 4-1 FOR DEPTH-FREQUENCY FOR 24 HR, 100 YR RETURN FREQUENCY.

POND								
BASIN NO.	REQUIRED CAPACITY (AC.-FT.)	AVAILABLE CAPACITY (AC.-FT.)	PEAK INFLOW (CFS)	OUTLET TOWER FLOW (CFS)	HIGH WATER SURFACE ELEV. (FT.)	BOTTOM ELEVATION (FT.)	FREE BOARD (FT.)	TOP ELEVATION
1	6.655	9.992	70.61	0	3917.33±	3903.00	3.67	3921.00

NOTE: THE HGL REFLECTS THE ELEVATION AS REQUIRED BY THE CITY OF EL PASO

HWSE = HGL = QT
 HWSE = 6.655 AC-FT
 CONTOUR 3917, ACCUMULATED VOLUME = 6.441 AC-FT
 CONTOUR 3918, ACCUMULATED VOLUME = 7.244 AC-FT
 HYDRAULIC GRADE LINE ELEVATION = 3917.33±



POND DESIGN PLAN
 SCALE: 1" = 20'

REFERENCES - BENCHMARKS

CITY MONUMENT LOCATED AT THE CENTERLINE INTERSECTION OF CLOYESDALE DRIVE AND PALOMINO STREET, THE NORTH AMERICAN VERTICAL DATUM IS ELEVATION = 3939.32 (NAD 86).

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CEA GROUP
 TEXAS REGISTERED ENGINEERING FIRM F-4564

ENGINEER'S SEAL

SCALE: 1" = 20'

Horizontal: N/A
 Vertical: N/A
 Contour Interval: N/A

DATE: JUNE 2020
 DESIGN BY: R.O.
 DRAWN BY: F.Z.
 CHKD. BY: J.L.A.
 APPVD. BY: J.L.A.
 JOB No. 2000-223

PROJECT TITLE

**HIDDEN VILLAGE
 UNIT TWO
 SUBDIVISION IMPROVEMENTS**

SHEET TITLE

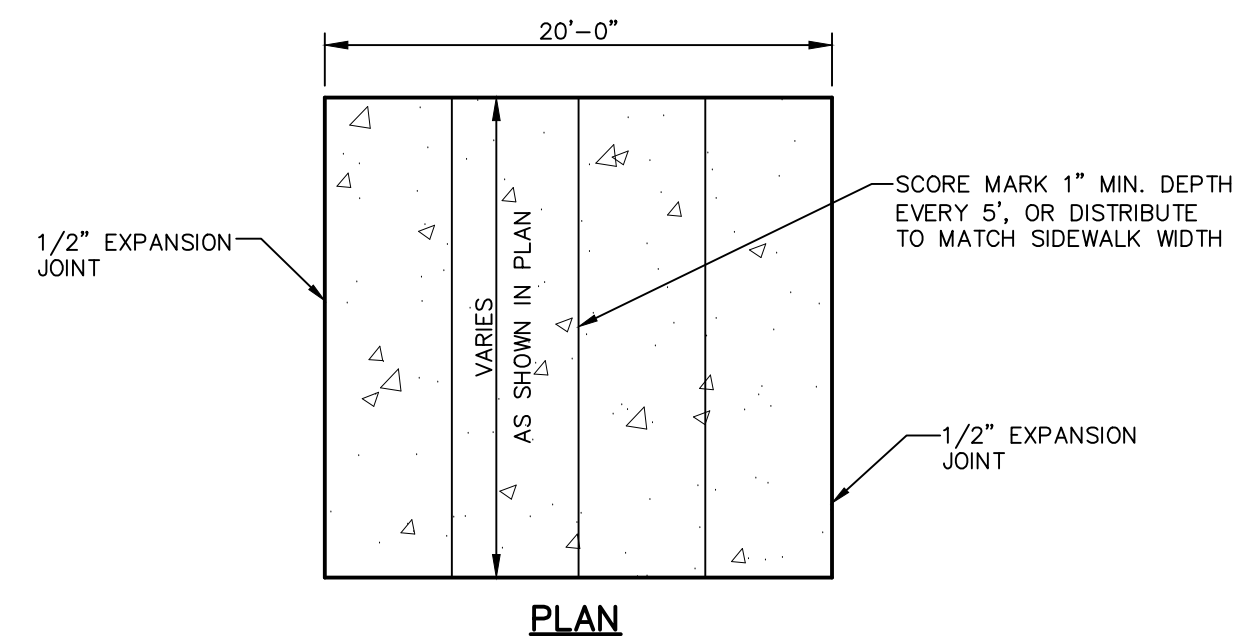
**POND
 DESIGN PLAN**

SHEET NO.

C8.1

Oscar Villalobos 07/01/2020

BY DATE



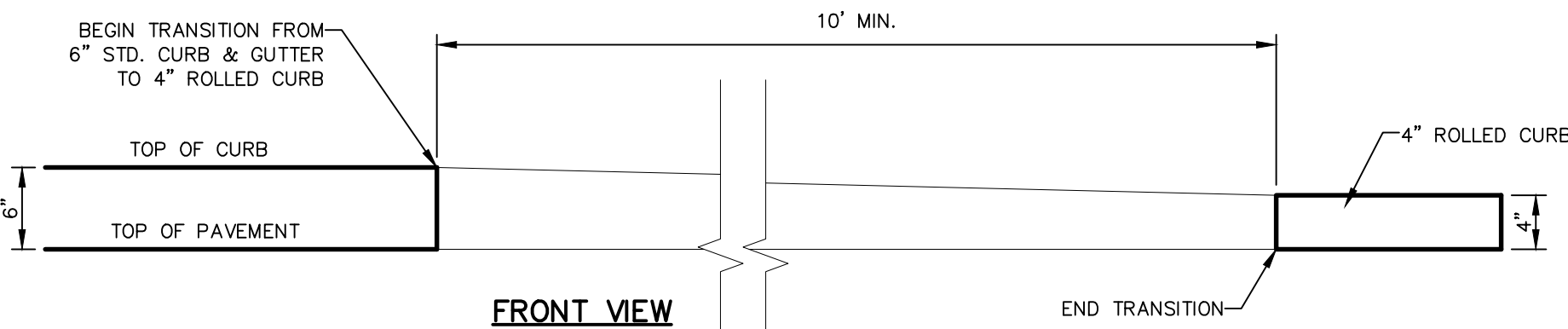
1 SECTION-SIDEWALK/SLAB
SCALE: N.T.S.

EXPANSION JOINT SECTION
SCALE: N.T.S.

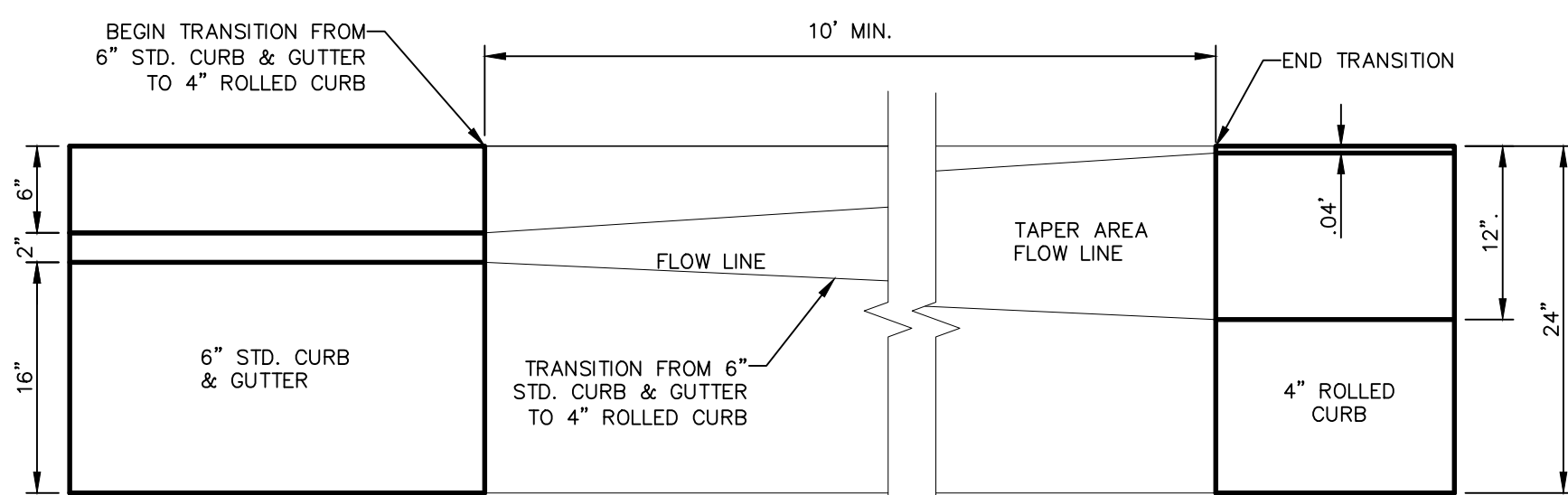
- NOTES:
- EXPANSION JOINT FILLER SHALL BE 1/2" BITUMINOUS TYPE PREFORMED JOINT FILLER (AASHTO M-33).
 - EXPANSION JOINTS SHALL BE SPACED AT 20'-0" MAX.
 - WHEREVER SIDEWALK ABUTS ROCK OR MASONRY STRUCTURES SUCH AS CURBS OR BUILDINGS, EXPANSION JOINTS FILLER SHALL BE PLACED IN ACCORDANCE WITH STANDARD SPECIFICATIONS.

SIDEWALK NOTES:

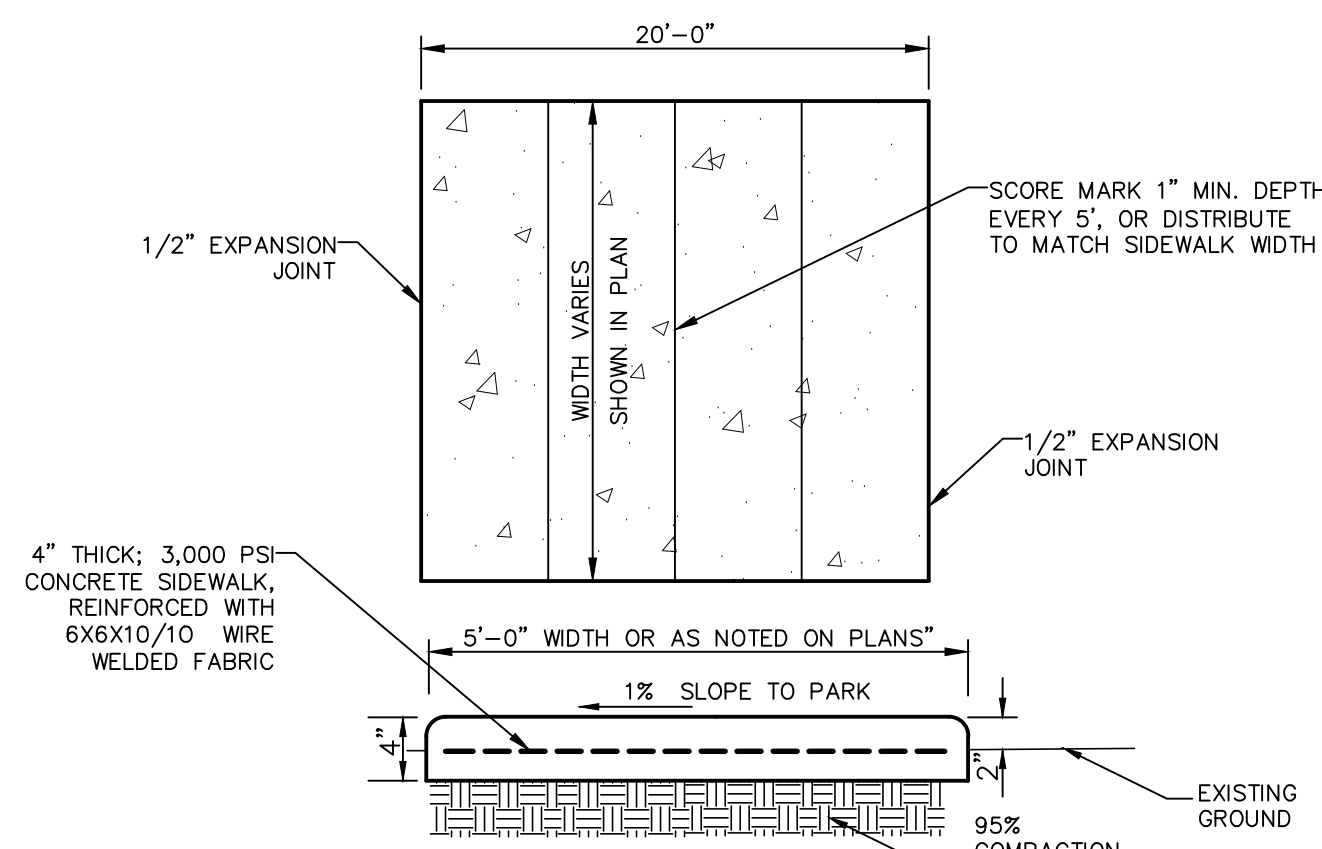
- CONCRETE SIDEWALK SHALL BE 3,000 P.S.I. AT 28 DAYS.
- DUMMY JOINTS REQUIRED AT 5' O.C.
- EXPANSION JOINTS SHALL BE AT 20' O.C. MAXIMUM, USE 1/2" PREFORMED BITUMINOUS EXPANSION JOINTS (AASHTO M-33)
- EXPANSION JOINT FILLER SHALL BE PLACED WHEREVER SIDEWALK ABUTS ROCK OR MASONRY STRUCTURES SUCH AS CURBS OR BUILDINGS.
- SUBGRADE TO BE COMPACTED TO 95% AS PER ASTM D1557.



2 CURB & GUTTER DETAIL
SCALE: 1"=1'-0"



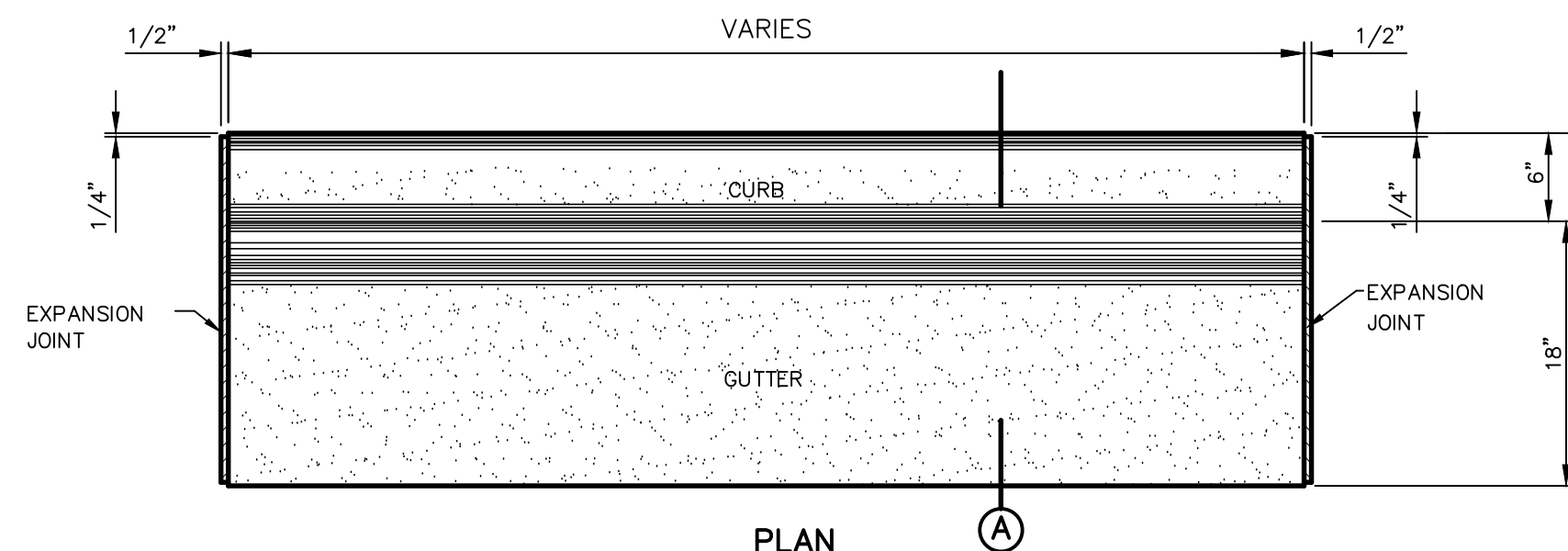
3 CURB TRANSITION DETAIL
SCALE: N.T.S.



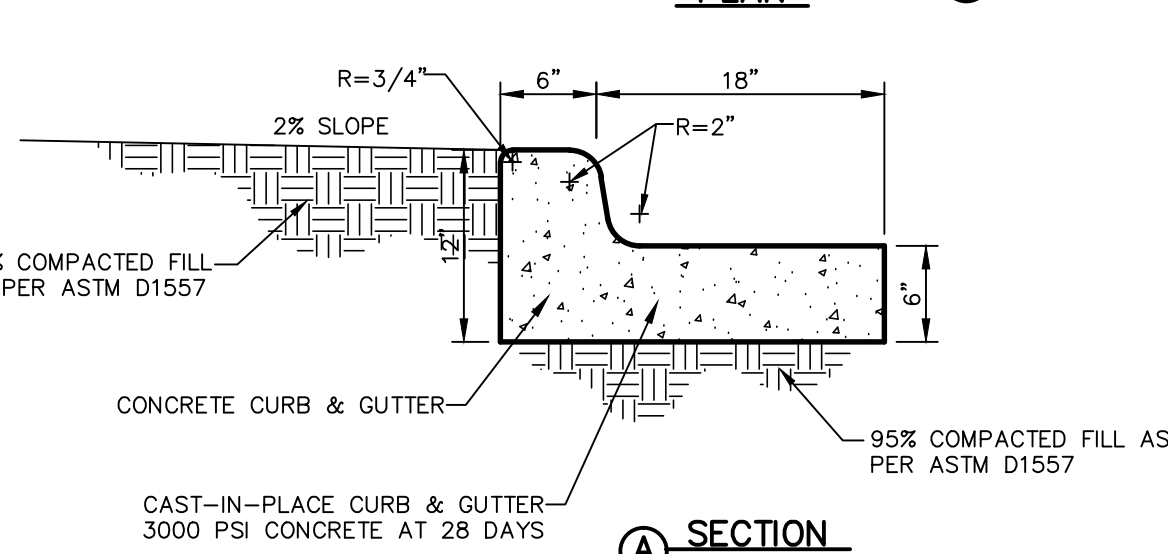
SIDEWALK NOTES:

- CONCRETE SIDEWALK SHALL BE 3,000 P.S.I.
- CONTROL JOINT REQUIRED AT 5' O.C. FOR SIDEWALKS OR AS SHOWN ON THE PLANS. CONTROL JOINTS SHALL BE 1" THICK AND 1" DEEP.
- EXPANSION JOINTS SHALL BE AT 20' O.C. MAXIMUM, USE 1/2" PREFORMED BITUMINOUS EXPANSION JOINTS (AASHTO M-33)
- EXPANSION JOINT FILLER SHALL BE PLACED WHEREVER SIDEWALK ABUTS ROCK OR MASONRY STRUCTURES SUCH AS CURBS OR BUILDINGS.
- SUBGRADE TO BE COMPACTED TO 95% AS PER ASTM D1557.
- REINFORCEMENT (6X6-10/10 W.W.F.) SHALL BE PLACED WHEREVER SIDEWALK ABUTS A PEDESTRIAN WALKWAY AND/OR PARK.

4 SIDEWALK ABUTTING PARK SITE
SCALE: N.T.S.



5 TYPICAL PAVEMENT JOINT SECTION
SCALE: N.T.S.

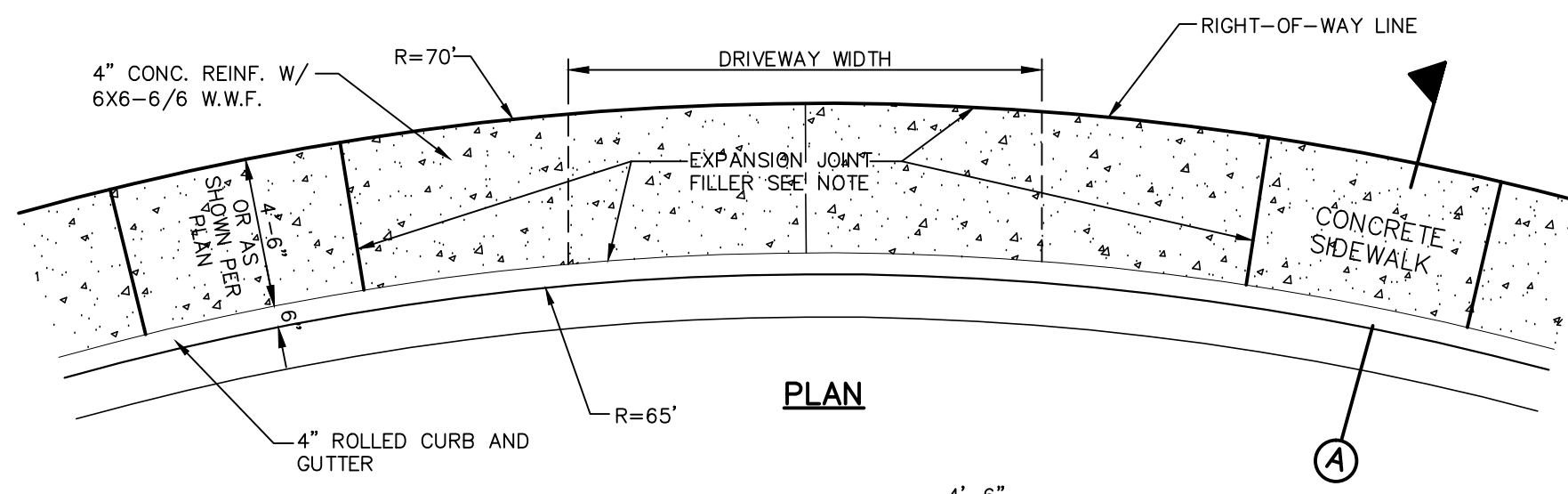


6 CURB & GUTTER DETAIL
SCALE: 1"=1'-0"

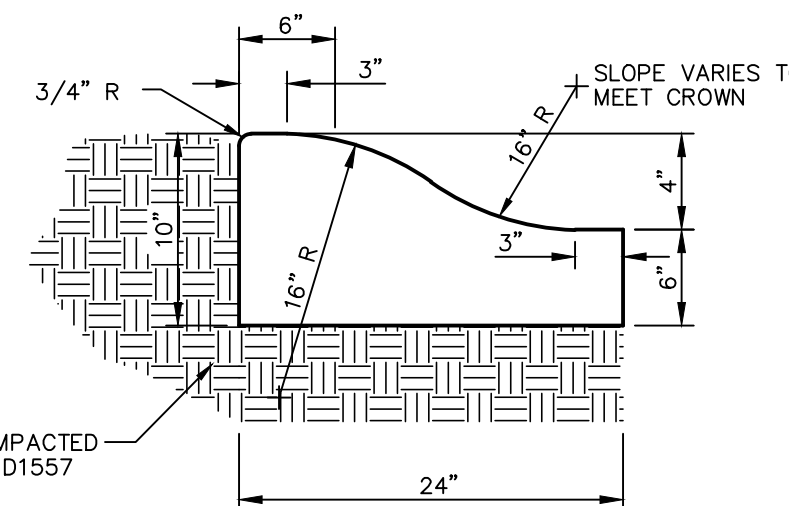
NOTES:

- CONCRETE CURB, GUTTER AND RETURNS SHALL BE 3,000 P.S.I. MIN. AT 28 DAYS.
- DUMMY JOINT REQUIRED AT 10' O.C. FOR CURB & GUTTER, AND 5' O.C. FOR SIDEWALK
- 1/2" PREFORMED BITUMINOUS EXPANSION JOINT (AASHTO M-33) IS REQUIRED FOR ALL CURB RETURNS. TRIM BITUMINOUS MATERIAL 1/4" LESS THAN NEAT CURB AND GUTTER DIMENSION.
- SUBGRADE UNDER CURBS MUST BE FORMED AND COMPACTED TO 95% ASTM D1557
- EXPANSION JOINTS REQUIRED AT 50' O.C. WHEN FORMING FOR CURBS.

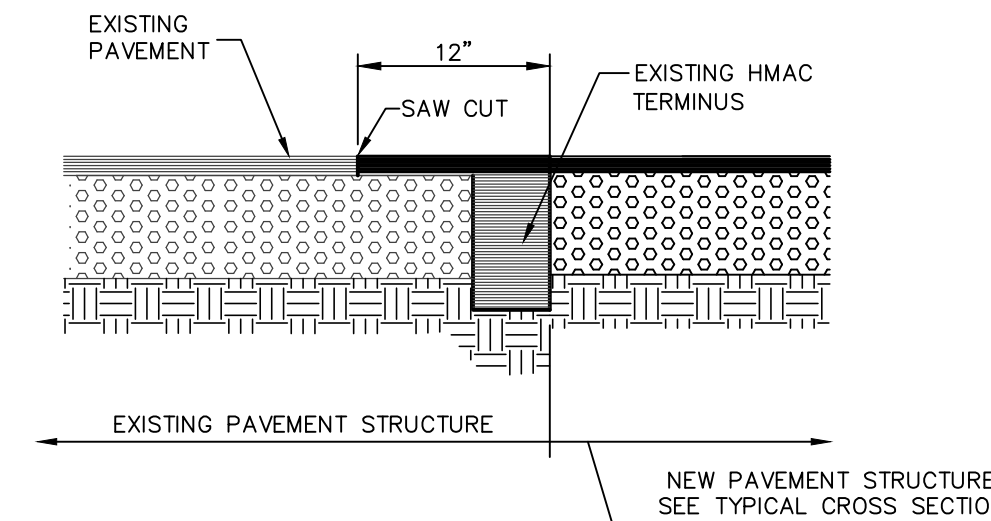
7 CURB & GUTTER DETAIL
SCALE: 1"=1'-0"



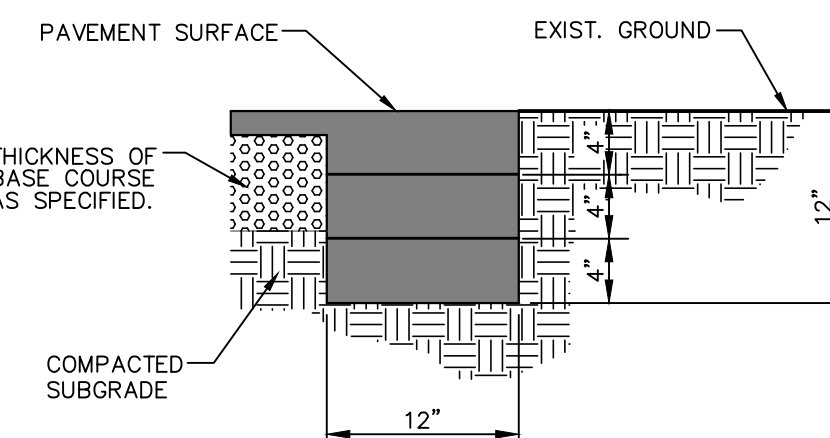
7 HEEL/DRIVEWAY DETAIL
SCALE: N.T.S.



8 CONCRETE APRON FOR DRIVEWAYS/ALLEYS
SCALE: 1"=1'-0"



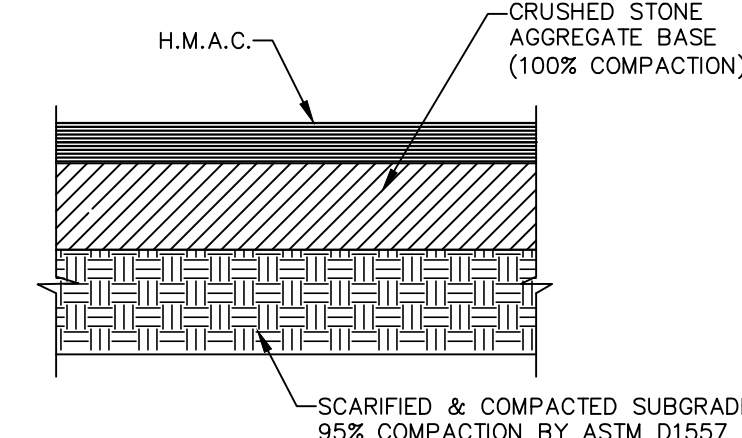
9 TYPICAL PAVEMENT JOINT SECTION
SCALE: N.T.S.



10 TERMINUS OF STREET
SCALE: 1"=1'-0"

NOTE: TERMINUS MUST BE CONSTRUCTED IN 4" LIFTS. FINAL LIFT MUST BE PLACED WITH FINAL PAVEMENT COURSE.

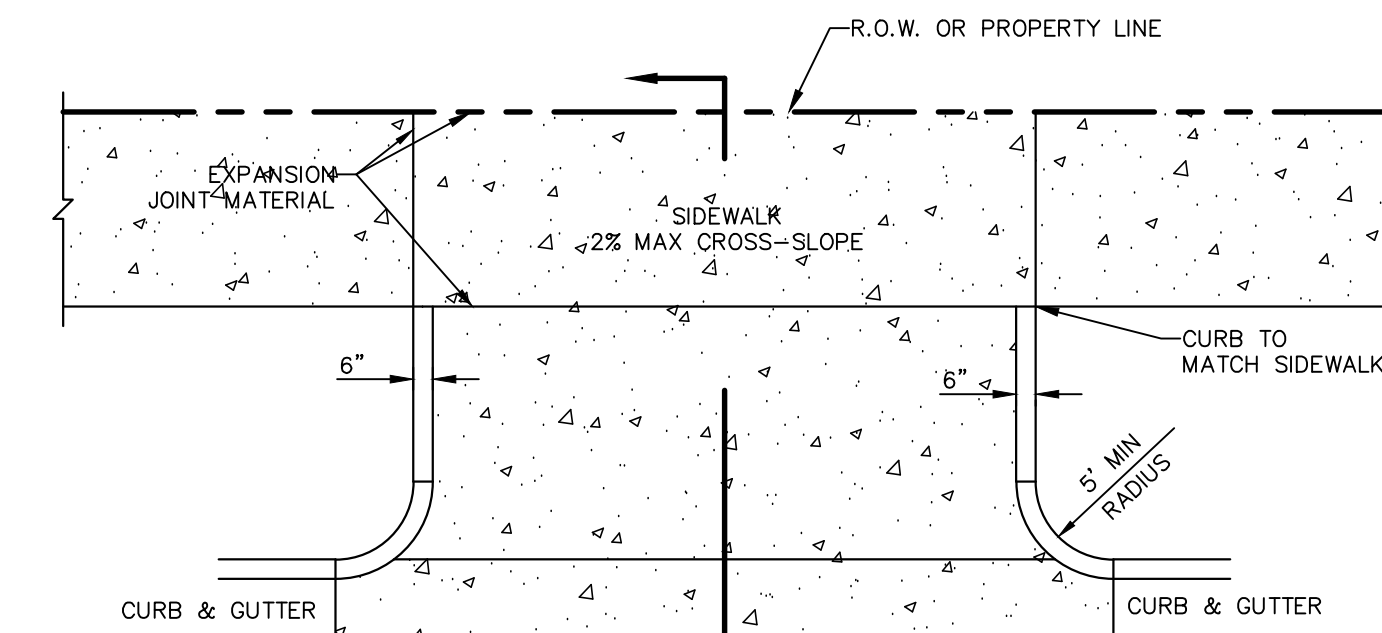
11 TERMINUS OF STREET
SCALE: 1"=1'-0"



PAVEMENT SECTION NOTES:

- SUBGRADE TO BE COMPACTED TO 95% OF MAXIMUM DENSITY AS PER ASTM D-1557.
- MINIMUM PAVEMENT DESIGN DETAILS ARE SHOWN, ACTUAL PAVEMENT DESIGN WILL BE DETERMINED BY CBR.
- STREET IMPROVEMENTS (FLEXIBLE PAVEMENT DESIGN STRUCTURE) SHALL BE CONSTRUCTED IN ACCORDANCE WITH CURRENT CITY OF EL PASO PAVING CONSTRUCTION DETAILS AND STANDARD SPECIFICATIONS. CBR @ EVERY 500' RESULTS TO BE SUBMITTED TO THE CITY OF EL PASO FOR REVIEW AND APPROVAL PRIOR TO PLACEMENT OF PAVEMENT. THE CBR RESULTS WILL DICTATE THE REQUIRED THICKNESS OF THE PAVEMENT STRUCTURE BASED ON CITY OF EL PASO DESIGN STANDARDS. THE DEVELOPER SHALL PLACE THE HIGHER VALUE OF PAVEMENT STRUCTURE BASED ON THE CBR RESULTS OR THE MINIMUM PAVEMENT THICKNESS AS SHOWN ON THE CITY OF EL PASO DESIGN STANDARDS.

12 TYPICAL PAVEMENT SECTION
SCALE: N.T.S.



DRIVEWAY PLAN

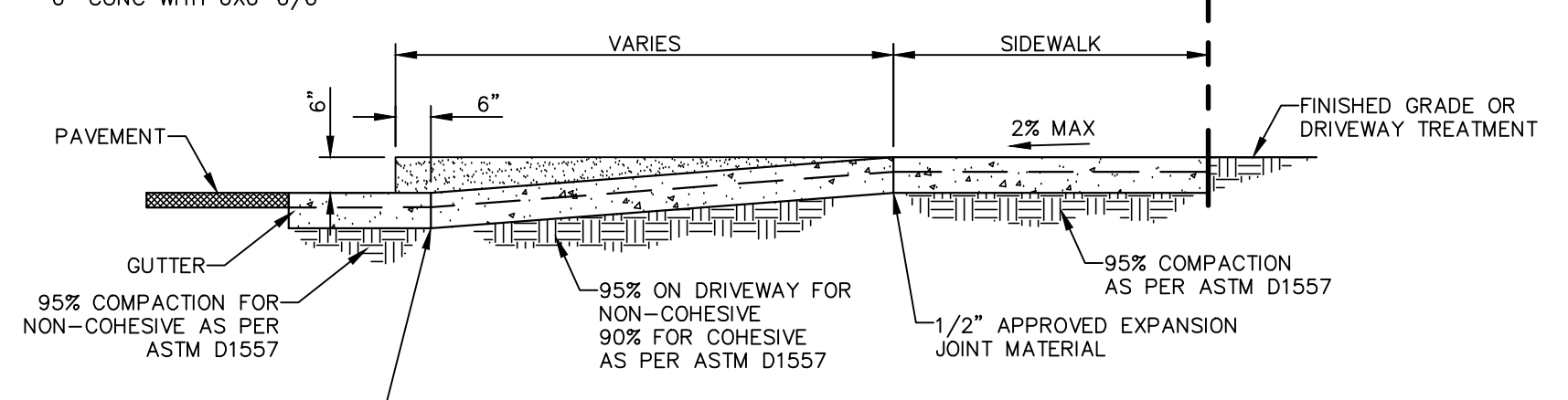
DRIVEWAY WIDTH	MIN	MAX
COMMERCIAL/INDUSTRIAL	24'	35'
RESIDENTIAL (SINGLE FAMILY 60' LOTS)	10'	20'
LESS THAN 60' LOTS, DUPLEX AND TOWN HOMES (REFER TO PLATE 6-16)	15'	25'

RESIDENTIAL

6" CONC WITHOUT W.W.F.
4" CONC WITH 6X6-10/10

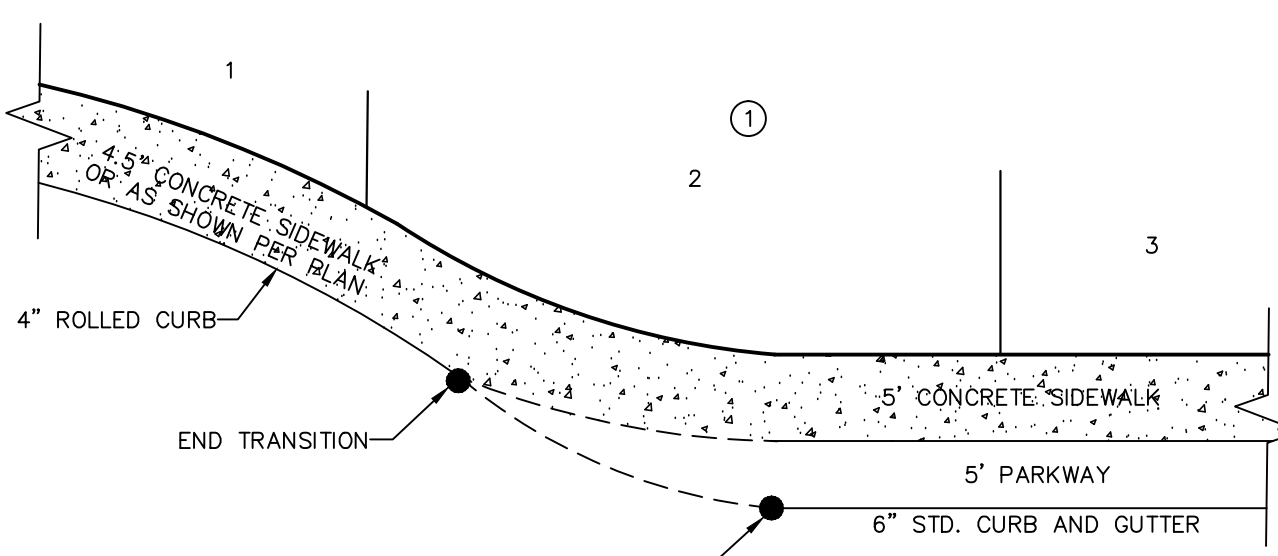
COMMERCIAL/INDUSTRIAL

6" CONC WITH 6X6-6/6



DRIVEWAY SECTION

13 CONCRETE APRON FOR DRIVEWAYS/ALLEYS
SCALE: N.T.S.



14 TYPICAL HEEL/SIDEWALK TRANSITION
SCALE: N.T.S.

- CONCRETE TO BE 3000 PSI MIN. AT 28 DAYS.
- DUMMY JOINTS REQUIRED AT 10' O.C. FOR HEADERS AND 5' O.C. FOR SIDEWALK
- EXPANSION MATERIAL REQUIRED AT CURB RETURNS WITH 1/2" PREFORMED ASPHALT IMPREGNATED EXPANSION MATERIAL OR EQUAL.
- EXPANSION JOINTS REQUIRED AT 50' O.C. WHEN FORMING FOR HEADERS.
- EXPANSION JOINTS REQUIRED FOR SIDEWALK AT 20' O.C.
- * FOR CUL-DE-SAC AND HEEL ONLY.

15 4" CONCRETE ROLLED CURB DETAIL
SCALE: 1"=1'-0"



Oscar Villalobos 07/01/2020
BY DATE

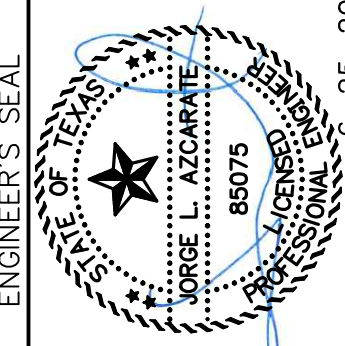
REFERENCES - BENCHMARKS

CITY MONUMENT LOCATED AT THE CENTERLINE INTERSECTION OF CLYDESDALE DRIVE AND PALOMINO STREET, ELEVATION = 3939.32 (NAD 86).

DATE	REVISIONS	BY

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CEA GROUP
TEXAS REGISTERED ENGINEERING FIRM F-4564



SCALE: AS SHOWN

Horizontal: N/A
Vertical: N/A
Contour Interval: N/A

DATE: JUNE 2020
DESIGN BY: R.O.
DRAWN BY: F.Z.
CHKD. BY: J.L.A.
APPVD. BY: J.L.A.
JOB No.: 2000-223

PROJECT TITLE

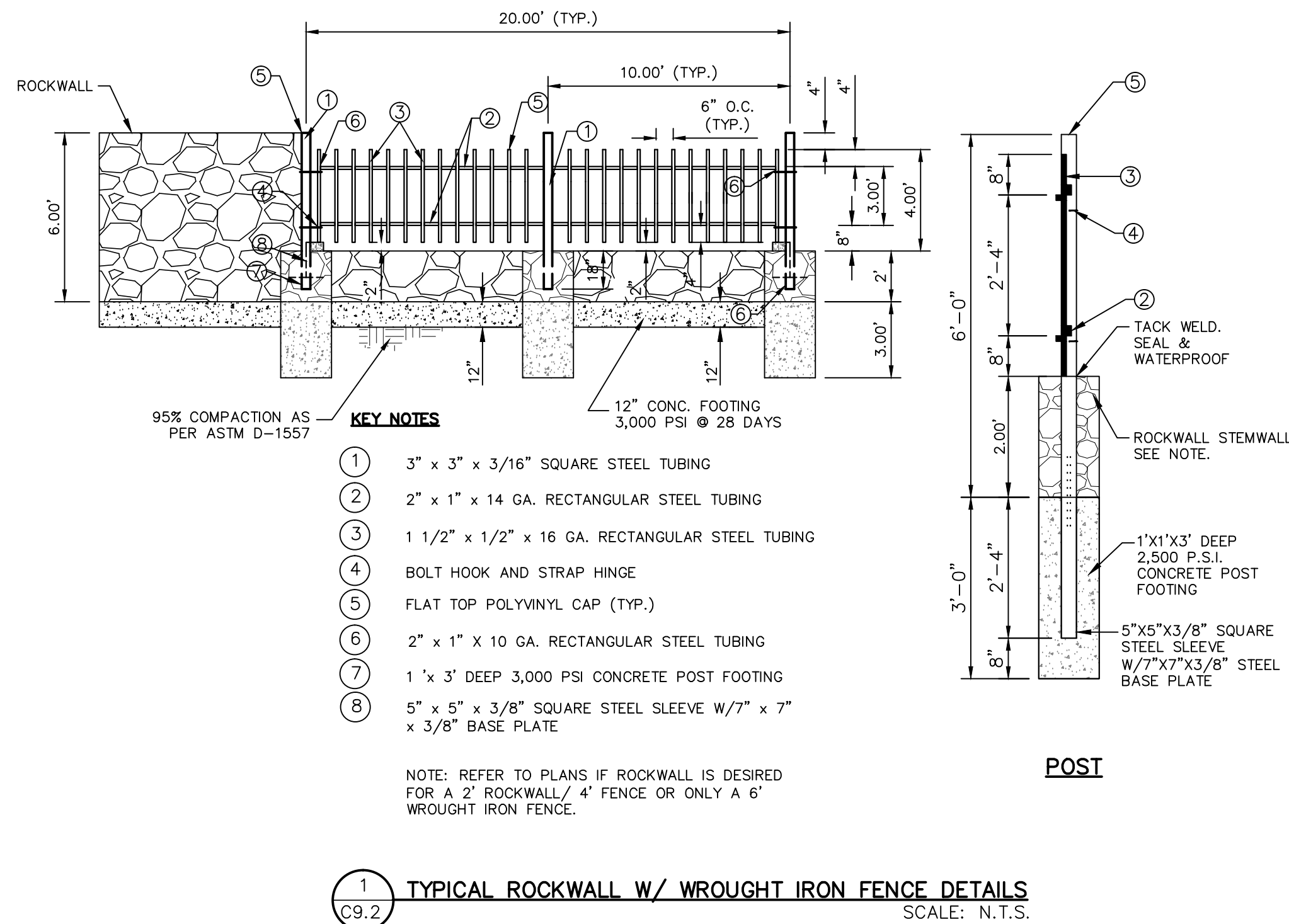
**HIDDEN VILLAGE
UNIT TWO
SUBDIVISION IMPROVEMENTS**

SHEET TITLE

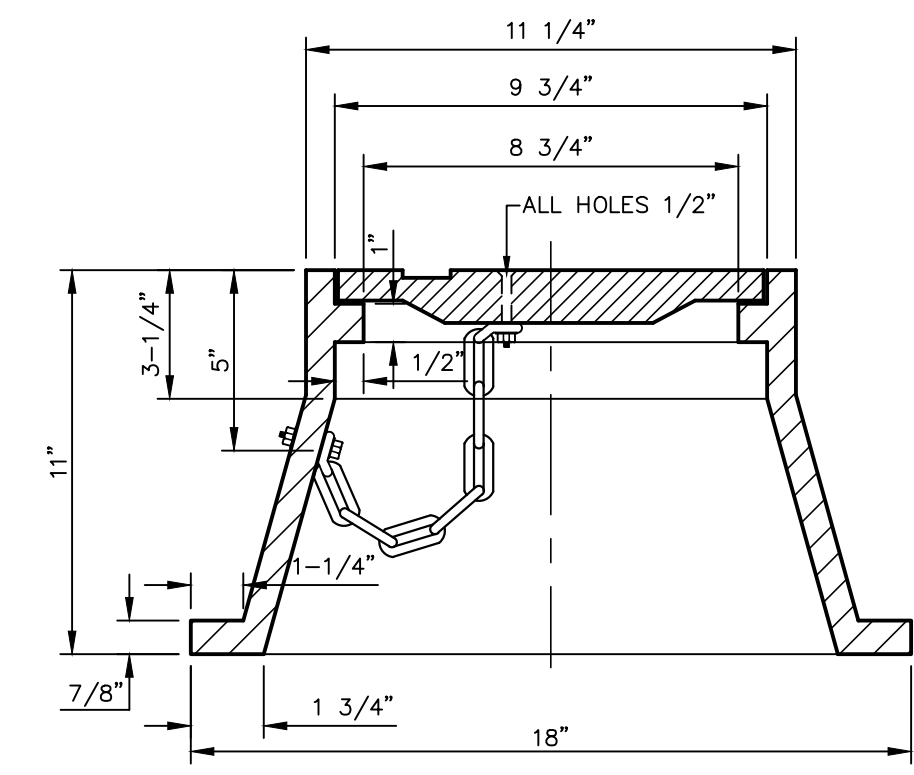
STANDARD
DETAILS

(SHEET 1 OF 6)
SHEET NO.

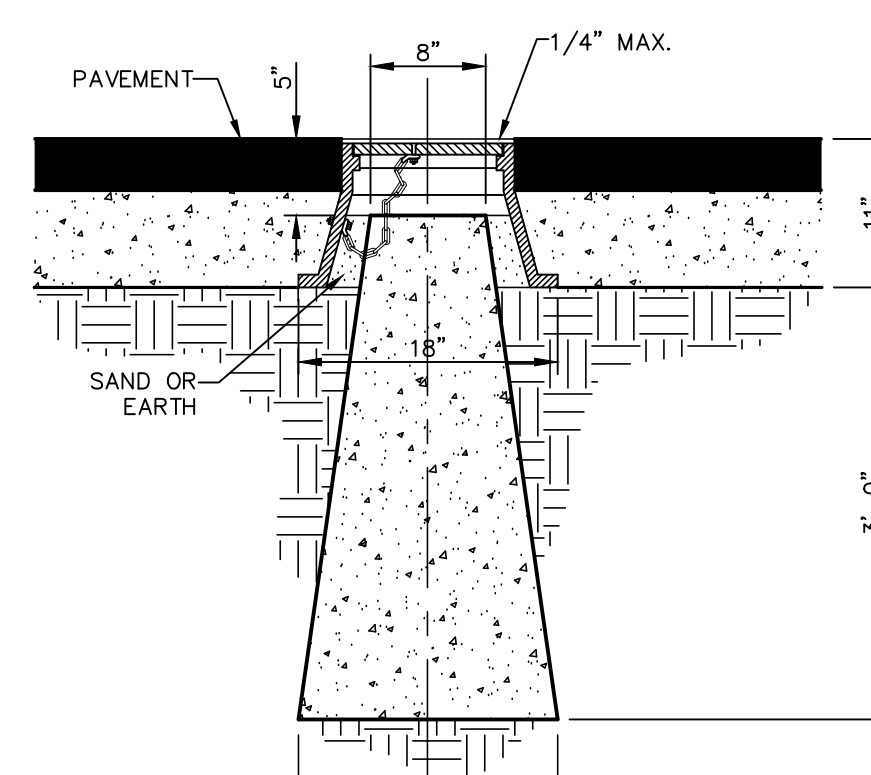
C9.1



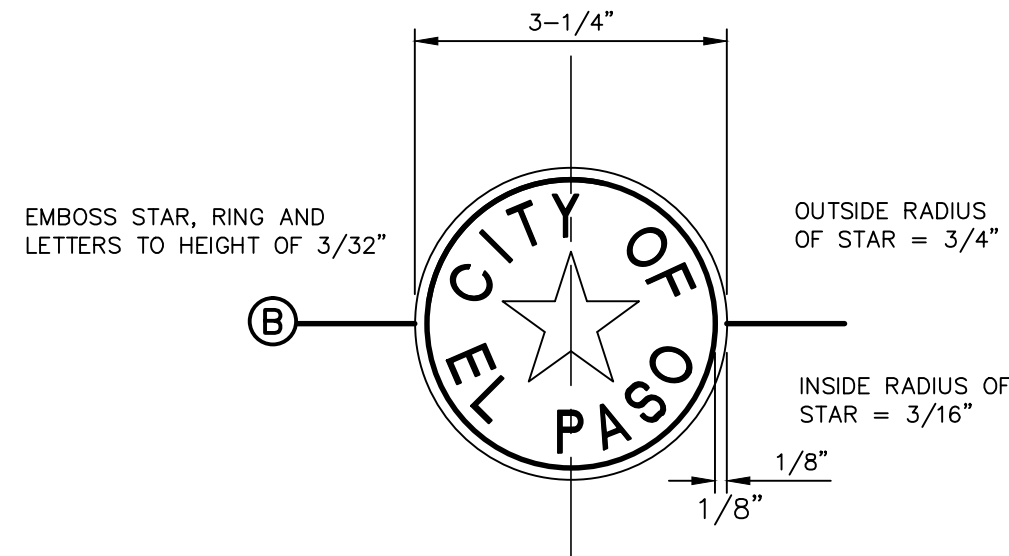
1 TYPICAL ROCKWALL W/ WROUGHT IRON FENCE DETAILS
SCALE: N.T.S.



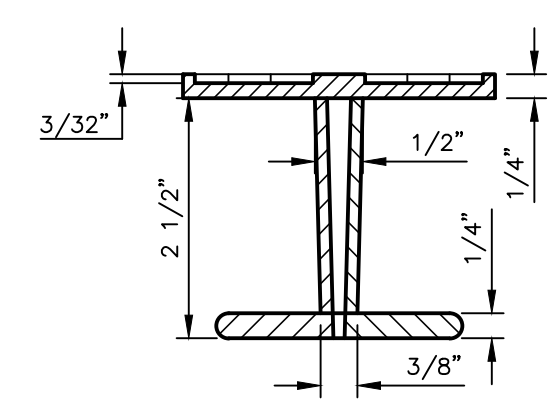
FRAME SECTION



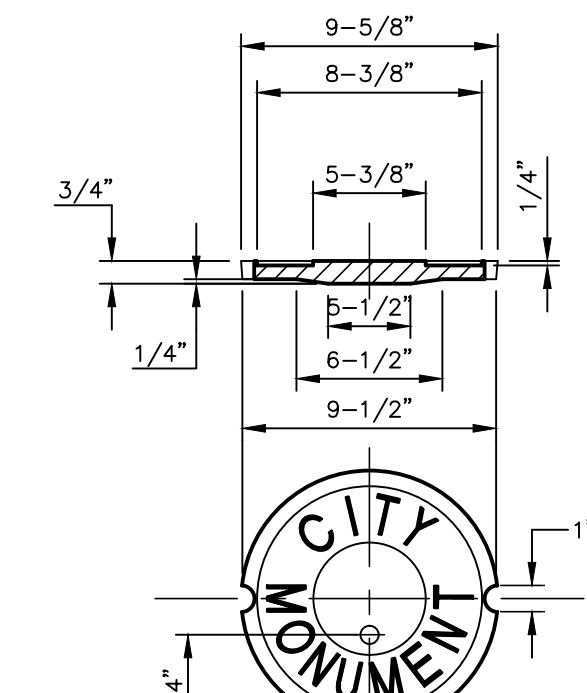
COVER



BRONZE MONUMENT CAP



B-SECTION



2 CITY SURVEY MONUMENT DETAILS
SCALE: N.T.S.

ROCK WALLS

MATERIALS: STONE FOR ROCK WALLS SHALL CONSIST OF QUARRIED LIMESTONE AS NEARLY UNIFORM IN SECTION AS IS PRACTICABLE. FIELD STONE OR SALVAGED STONE FROM ROCK WALLS SHALL BE USED ONLY WHERE DIRECTED BY THE ENGINEER. THE STONE SHALL BE DENSE, RESISTANT TO THE ACTION OF AIR AND WATER, CLEAN OF OLD MORTAR AND SUITABLE IN ALL RESPECTS FOR THE PURPOSE INTENDED.

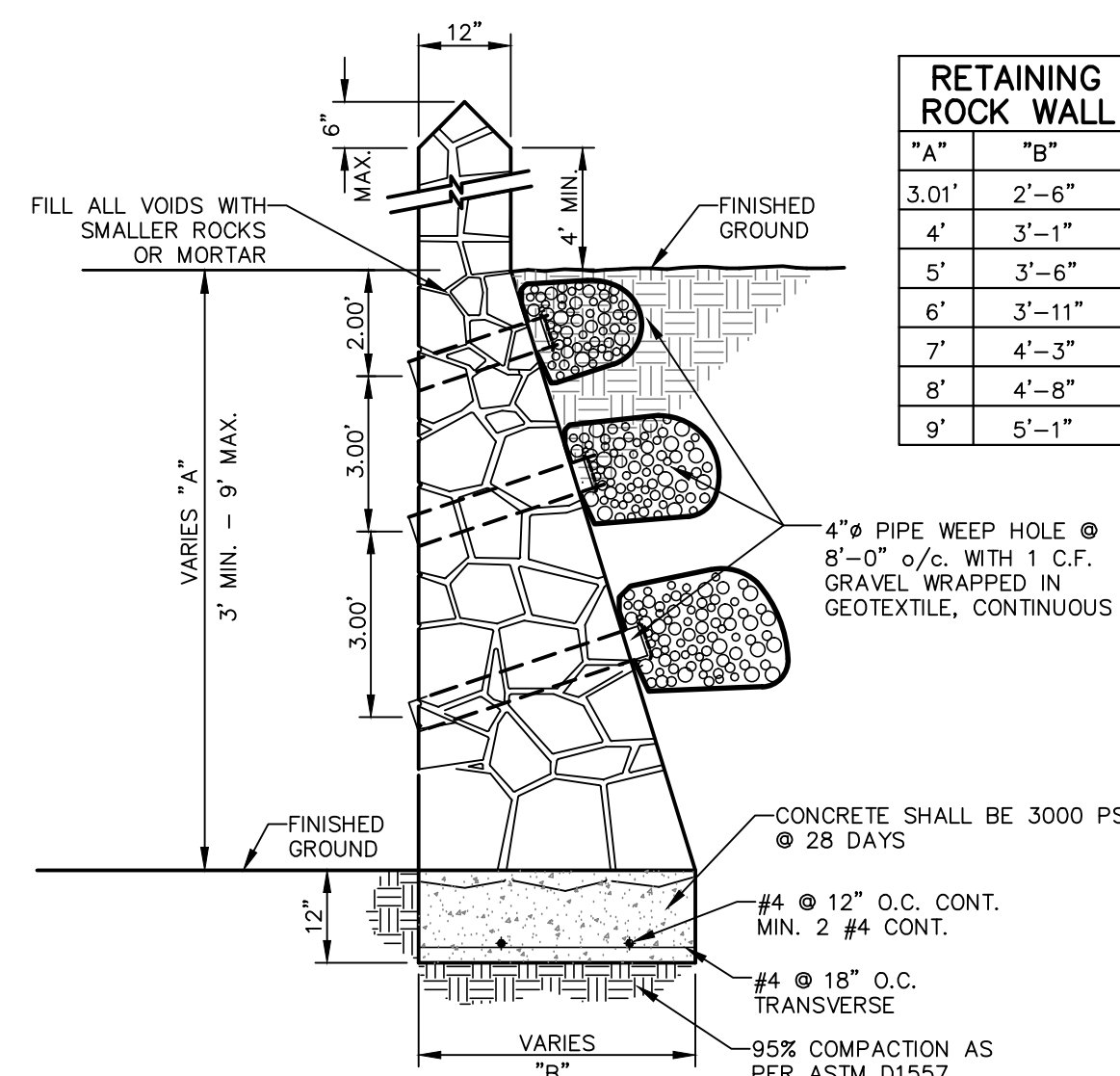
MORTAR FOR THE ROCK WALLS SHALL CONSIST BY VOLUMES OF ONE (1) PART PORTLAND CEMENT, ONE-QUARTER TO ONE-HALF (1/4 TO 1/2) PART HYDRATED LIME, AND THREE (3) PARTS CLEAN, HARD, DURABLE SAND (2 1/4 TO 3 TIMES THE SUM OF THE VOLUMES OF CEMENT AND LIME COMBINED. SEE CITY BUILDING CODE PP. 14-3 AND 14-4). MORTAR SHALL BE TYPE S, ASTM SPECIFICATION C270-73. COMPRESSIVE STRENGTH = 1800 P.S.I. (28 DAYS). CONCRETE FOR THE FOUNDATION SHALL BE CLASS "A" (3000 P.S.I.). REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60. IF ROCK WALL IS FREQUENTLY EXPOSED TO WATER, LIME SHALL NOT BE USED AND THE PORTIONS SHALL BE ONE PART PORTLAND CEMENT AND THREE PARTS SAND.

CONSTRUCTION METHODS: PRIOR TO PLACING THE CONCRETE FOUNDATION, THE EXCAVATION FOR THE ROCK WALLS SHALL BE MADE TO THE PROPER SECTION, AND, IF CONSIDERED NECESSARY BY THE ENGINEER, THE BOTTOM OF EXCAVATION SHALL BE HAND-TAMPED AND SPRINKLED. THE EXCAVATED AREA FOR ROCK WALLS SHALL BE MOIST WHEN THE CONCRETE IS PLACED. REINFORCING STEEL SHALL BE PLACED CONTINUOUSLY AS SHOWN ON THE PLANS AND PROPERLY SUPPORTED THROUGHOUT THE PLACEMENT OF CONCRETE. THE SURFACE OF THE CONCRETE SHALL NOT BE TROWELED. THE CONCRETE SHALL BE CURED A MINIMUM OF 24 HOURS BEFORE ANY STONE OR MORTAR IS PLACED ON THE FOUNDATION. THE CONCRETE SHALL BE CURED A MINIMUM OF 48 HOURS BEFORE MORE THAN 300 POUNDS PER SQUARE FOOT OF STONE AND MORTAR IS PLACED ON THE FOUNDATION. CONTRACTOR SHALL EMBED THE FIRST FOUR INCHES OF THE FIRST LAYER INTO THE FRESH CONCRETE OF THE FOOTING.

STONE SHALL BE SELECTED AS TO SIZE AND SHAPE TO SECURE FAIRLY LARGE FLAT-SURFACED STONE WHICH MAY BE ERECTED WITH TRUE AND EVEN SURFACE FACES AND A MINIMUM OF EXPOSED MORTAR. ALL STONES SHALL BE THOROUGHLY CLEANED, WETTED, HAND-PLACED AND EMBEDDED IN MORTAR SO THAT NO STONES SHALL TOUCH EACH OTHER OR THE CONCRETE FOUNDATION BUT SHALL BE FIRMLY BOUND TOGETHER WITH MORTAR. THE FINISHED SURFACE SHALL PRESENT A NEAT, CLEAN, WORKMANLIKE AND TRUE-TO-LINE APPEARANCE. THE INTERIOR OF THE ROCK WALL SHALL BE COMPLETELY FILLED WITH SPALLS AND PIECES OF THE SPECIFIED STONE, COMPLETELY EMBEDDED AND SURROUNDED BY MORTAR WITH NO VOIDS.

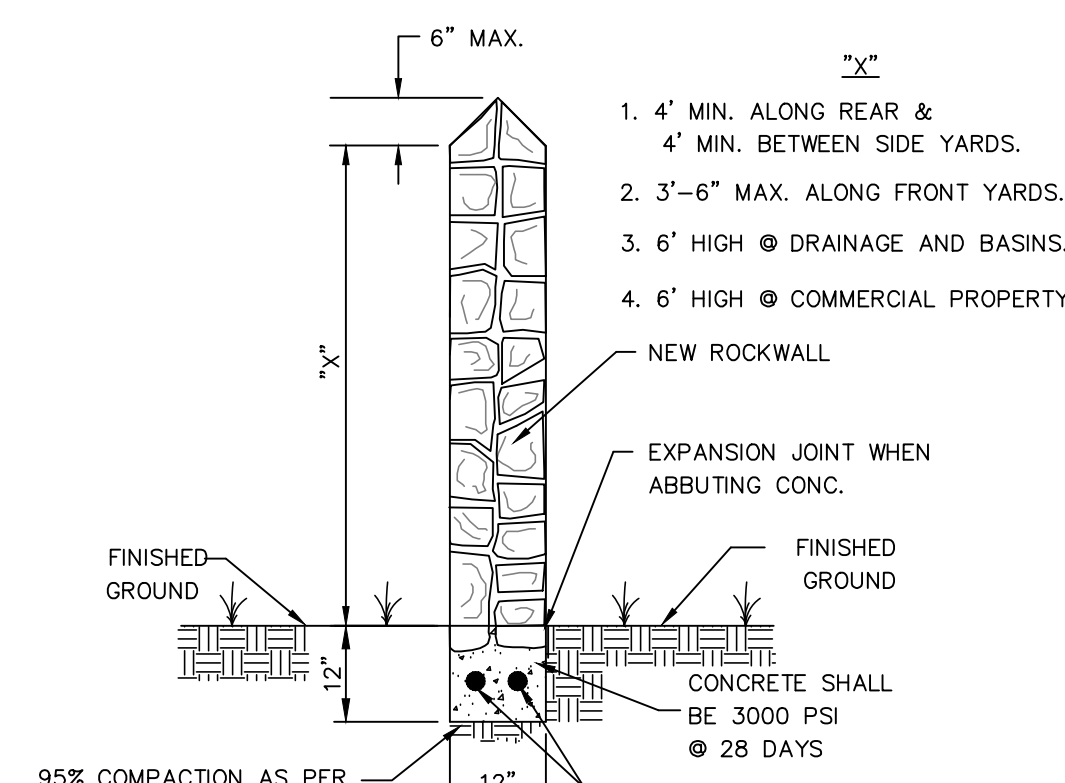
THE ERECTION OF THE ROCK WALL SHALL NOT BE MORE THAN THREE FEET IN HEIGHT FOR EVERY 24-HOUR PERIOD TO ALLOW FOR THE LOWER PORTIONS TO BECOME SUFFICIENTLY SET. ALL STONES SHALL BE THOROUGHLY WET BEFORE BEING PLACED IN FRESH MORTAR. THE LAST LAYER OF ROCK PRIOR TO BREAK OF CONSTRUCTION PHASE SHALL NOT HAVE ANY MORTAR ON TOP. FRESH MORTAR MUST BE USED FOR CONTINUATION OF WORK FOLLOWING ERECTION BREAK.

WEEP HOLES SHALL BE PLACED ON THE ROCK WALL AS SHOWN ON THE PLANS. THE WEEP HOLES SHALL BE NOT MORE THAN TEN FEET APART ON-CENTER. THE WEEP HOLES SHALL CONSIST OF FOUR-INCH VITRIFIED CLAY PIPE, OR OTHER PIPE AS APPROVED BY THE ENGINEER, NEATLY CUT TO THE EXPOSED SURFACE OF THE ROCK WALL. NO LESS THAN ONE CUBIC FOOT OF ONE-INCH TO 3/4-INCH OF GRADED GRAVEL SHALL BE PLACED AT THE INLET OF EACH WEEP HOLE AS SHOWN ON THE PLANS.

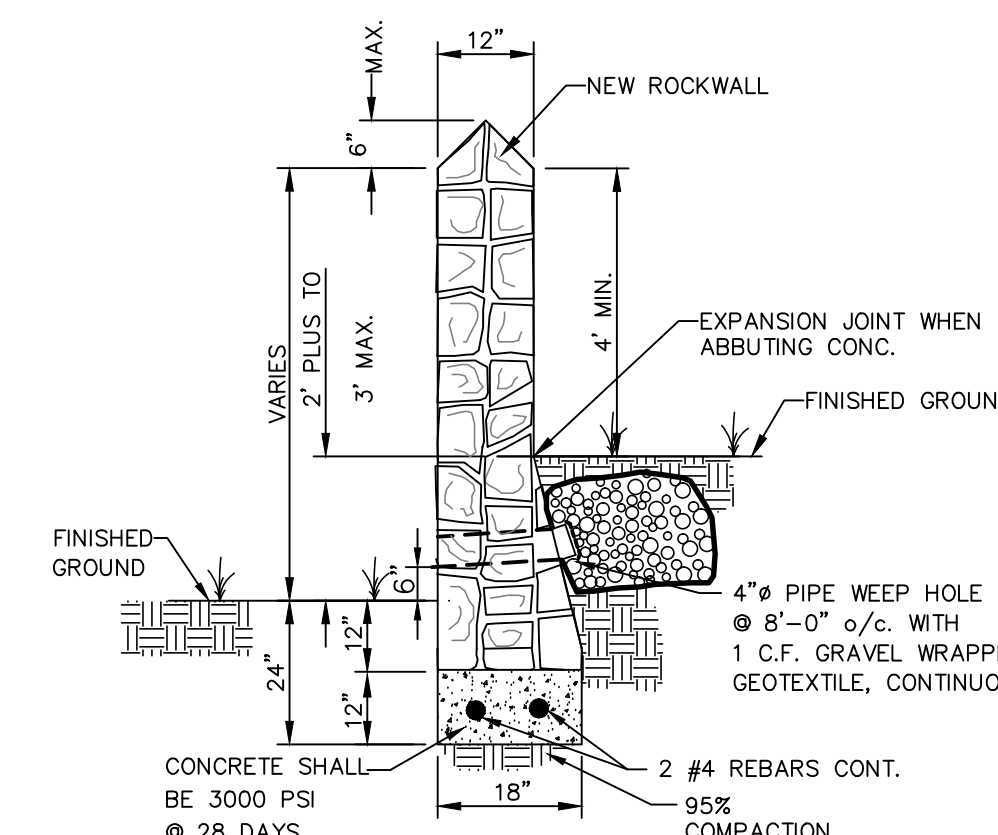


RETAINING WALL SECTION (3' MIN. TO 9' MAX.)

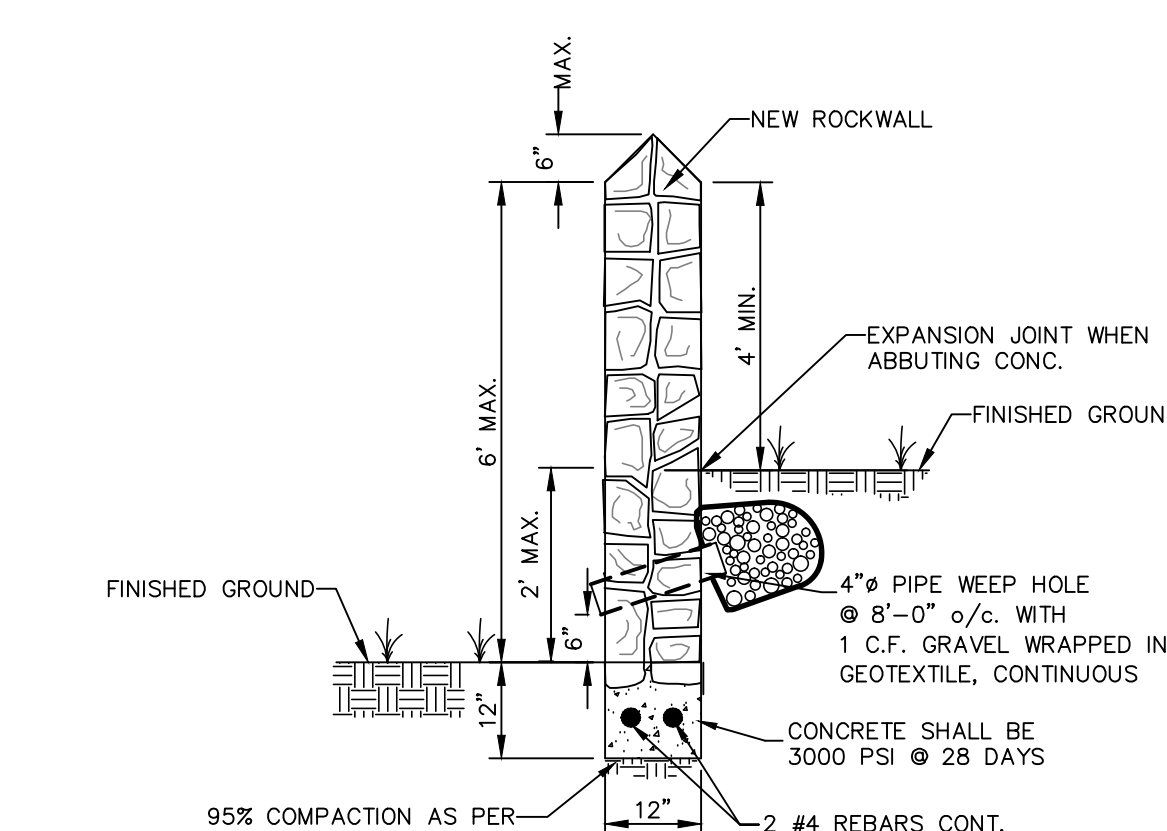
RETAINING ROCK WALL	
"A"	"B"
3.01'	2'-6"
4'	3'-1"
5'	3'-6"
6'	3'-11"
7'	4'-3"
8'	4'-6"
9'	5'-1"



GARDEN WALL SECTION



RETAINING WALL SECTION (2' PLUS TO 3' MAX.)



GARDEN WALL SECTION (2' MAX.)

3 TYPICAL ROCKWALL DETAILS
SCALE: 1/2" = 1'-0"

PROPOSED MONUMENT LOCATIONS

- MONUMENTS SHALL BE INSTALLED SO THAT ALL FRONT PROPERTY CORNERS OF ALL LOTS IN THE SUBDIVISION ARE WITHIN LINE OF SIGHT OF A MONUMENT, OR WITHIN SIGHT OF THE LINE BETWEEN TWO ADJACENT MONUMENTS.
- EACH MONUMENT SHALL BE WITHIN LINE OF SIGHT OF ANOTHER MONUMENT.
- MONUMENTS SHALL BE NO FARTHER THAN 2000 FEET APART.
- AT LEAST ONE (1) MONUMENT SHALL BE PLACED ON EACH HORIZONTAL CURVE (PI) OF THE TANGENTS LEADING INTO THE CURVE FALLS OUTSIDE THE CURB LINE.
- NO FEWER THAN TWO MONUMENTS SHALL BE PLACED IN ONE (1) STREET SUBDIVISIONS.



Oscar Villalobos 07/01/2020

BY DATE

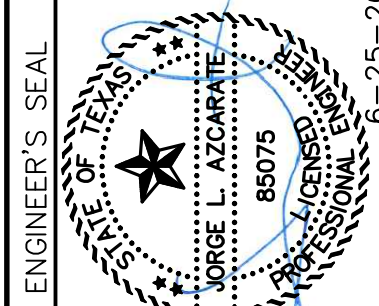
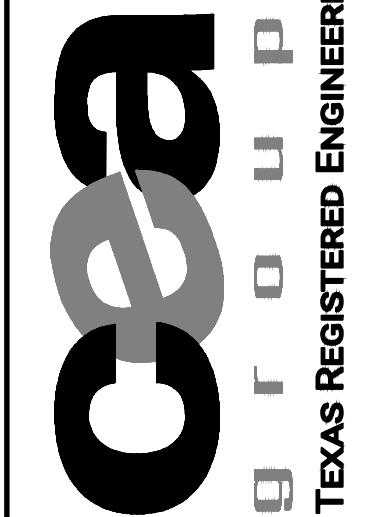
ROCK WALL NOTES

- STONE FOR ROCKWALL SHALL BE AS NEARLY UNIFORM IN SECTIONS AS IN PRACTICABLE THE STONE SHALL BE DENSE AND RESISTANT OF AIR AND WATER
- MORTAR MUST BE TYPE "S" 1800 P.S.I. AS PER ASTM C270
- MASONRY WALL OVER SIX (6) FEET IN HEIGHT AND THOSE USED FOR EARTH RETENTION OVER TWO (2) FEET MUST BE DESIGNED AS STRUCTURAL WALLS.
- WALLS ADJACENT TO PONDING AREAS OR DRAINAGE DITCHES MAY BE CONSTRUCTED OF BRICK, ROCK, STONE OR CINDER BLOCK AND SHALL NOT BE LESS THAN SIX (6) FEET HIGH.
- ROCKWALL MORTAR JOINTS MUST NOT EXCEED TWO (2) INCHES
- PROVIDE ONE (1) INCH EXPANSION JOINTS AT EVERY 100 FEET
- ALL STONE SHALL BE THOROUGHLY SOAKED BEFORE BEING PLACED
- ALL STONE FOR ROCKWALLS SHALL BE FRACTURED QUARRIED ROCK OR ROUND ROCK, NO RIVER ROCK SHALL BE ALLOWED.
- REINFORCING STEEL SHALL BE ASTM A615 GRADE 40.
- ALLOWABLE SOIL BEARING PRESSURE = 2,500 PSI (MINIMUM)
- BACKFILL MATERIALS SHALL CONSIST OF COARSE GRAINED, WELL-DRAINED SOILS (WITH NO CLAY CONTENT).
- ALL THE RETAINING WALLS OVER 4' IN DEPTH SHALL BE BUILT BY DEVELOPER, REMAINING ROCKWALL TO BE BUILT BY BUILDER.

NOTE: BUILDER SHALL SUBMIT ROCKWALL AND RETAINING ROCKWALL COMPUTATIONS TO THE CITY OF EL PASO FOR APPROVAL, IF IN EXCESS OF THOSE SHOWN.

DATE	REVISIONS	BY

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SCALE	AS SHOWN
Horizontal:	1" = 40'
Vertical:	1" = 4'
Contour Interval:	N/A
DATE:	JUNE 2020
DESIGN BY:	R.O.
DRAWN BY:	F.Z.
CHKD. BY:	J.L.A.
APPVD. BY:	J.L.A.
JOB No.:	2000-223

HIDDEN VILLAGE
UNIT TWO
SUBDIVISION IMPROVEMENTS

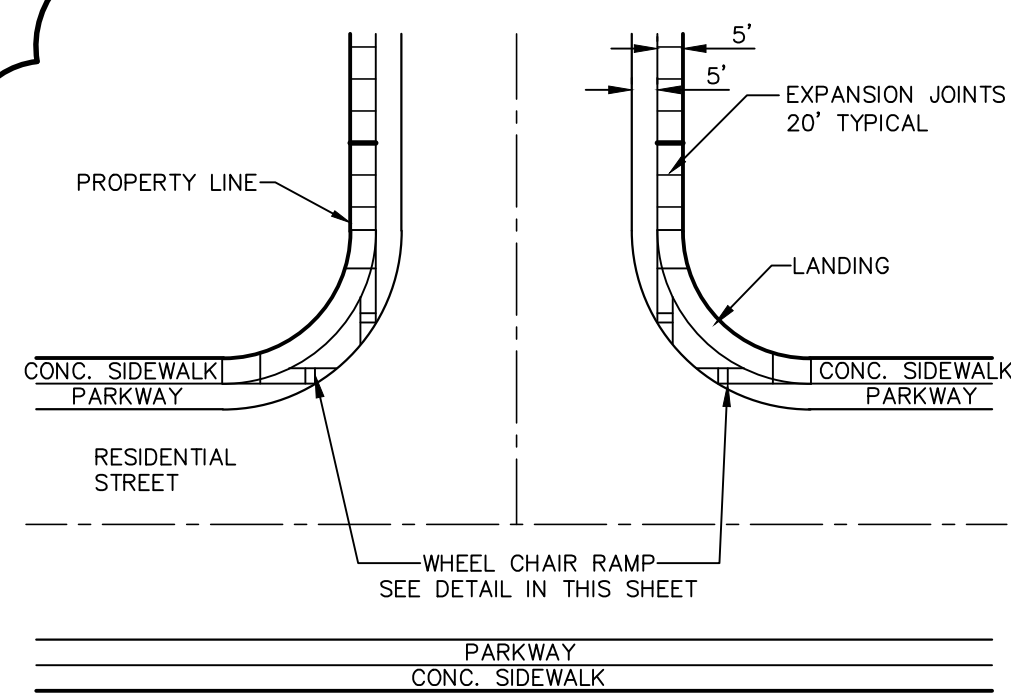
SHEET TITLE

STANDARD
DETAILS

(SHEET 1 OF 6)

SHEET NO.

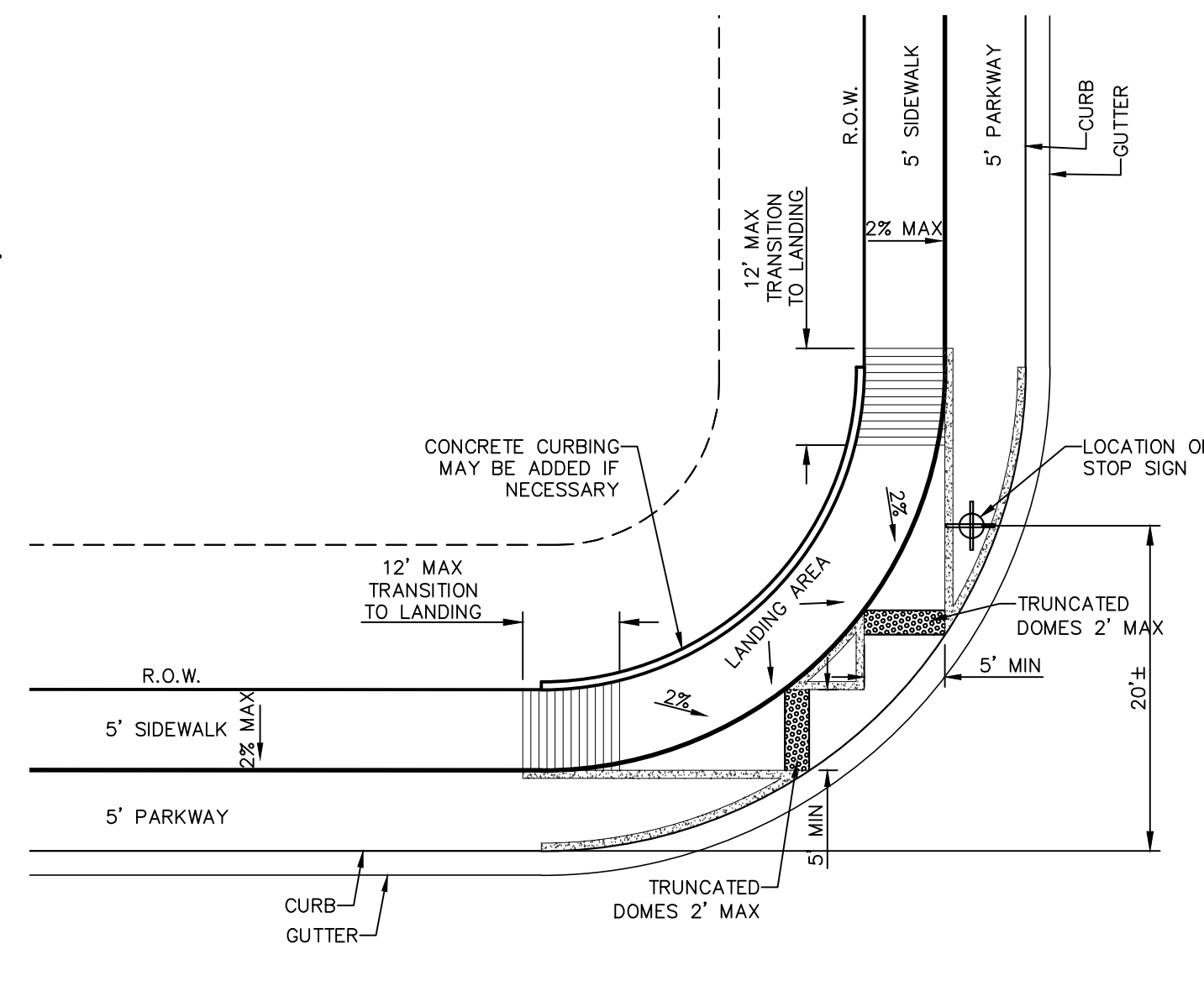
C9.2



NOTES:

- RAMPs MAY BE PLACED AS SUGGESTED, HOWEVER EXISTING LIGHT POLES, FIREHYDRANTS, DROP INLETS, ETC., MAY AFFECT PLACEMENT.
- THE CONCRETE SURFACE SHALL HAVE A ROUGH, NONSKID TYPE FINISH.
- CONSTRUCTION METHODS SHALL CONFORM WITH THE CITY OF EL PASO SPECIFICATIONS.
- ALL PARKING AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH CURRENT CITY OF EL PASO.
- CONTRACTOR SHALL CONSTRUCT LANDING AREAS WITH POSITIVE SLOPE IN ALL DIRECTIONS TO ALLOW RUNOFF TO PROPERLY DRAIN

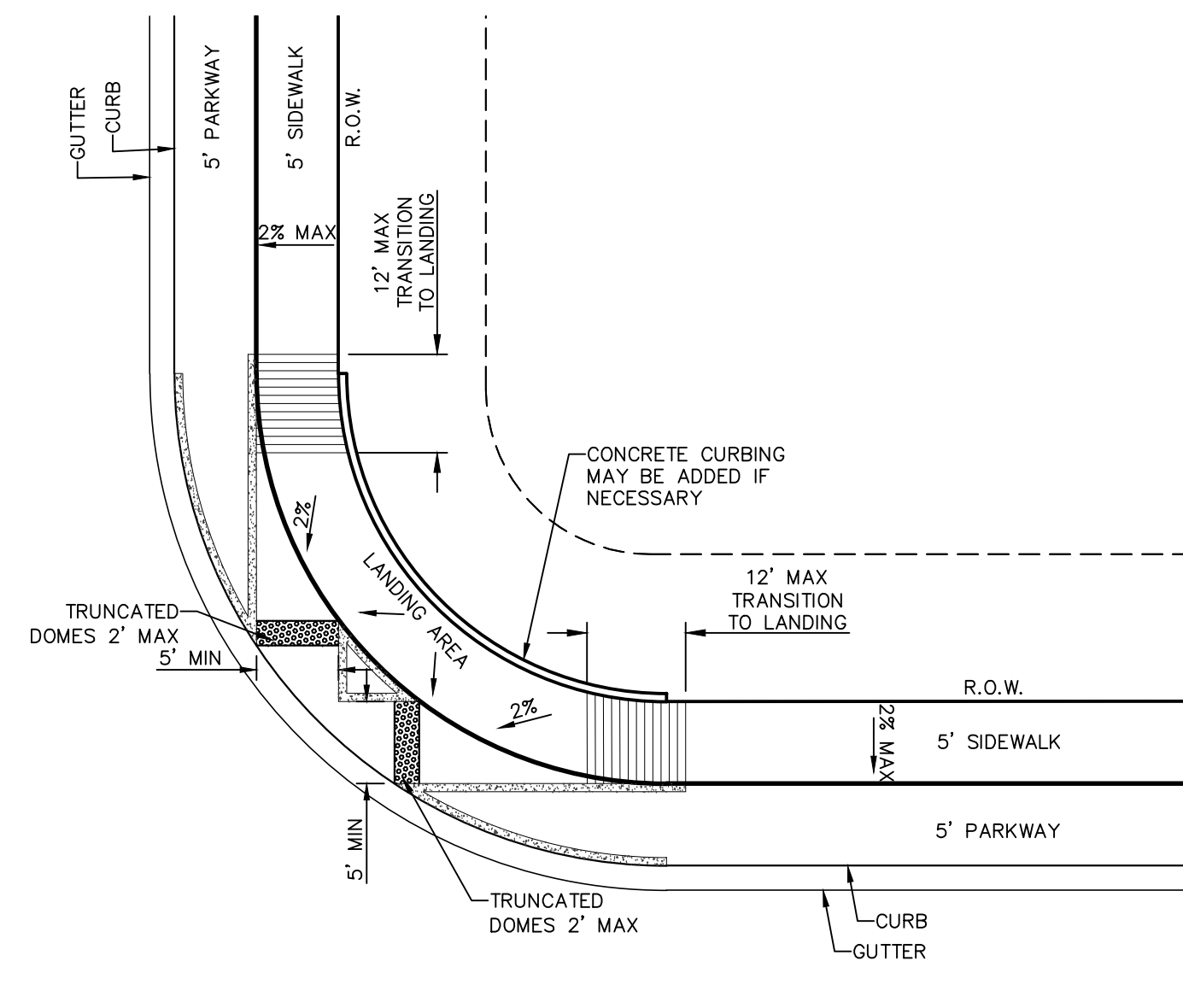
1 WHEELCHAIR RAMP STREET PLAN
C9.3 SCALE: N.T.S.



NOTES:

- RAMPs MAY BE PLACED AS SUGGESTED, HOWEVER EXISTING LIGHT POLES, FIREHYDRANTS, DROP INLETS, ETC., MAY AFFECT PLACEMENT.
- THE CONCRETE SURFACE SHALL HAVE A ROUGH, NONSKID TYPE FINISH.
- CONSTRUCTION METHODS SHALL CONFORM WITH THE CITY OF EL PASO SPECIFICATIONS.
- ALL PARKING AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH CURRENT CITY OF EL PASO.
- CONTRACTOR SHALL CONSTRUCT LANDING AREAS WITH POSITIVE SLOPE IN ALL DIRECTIONS TO ALLOW RUNOFF TO PROPERLY DRAIN

2 DIRECTIONAL RAMP AT INTERSECTION
C9.3 SCALE: N.T.S.

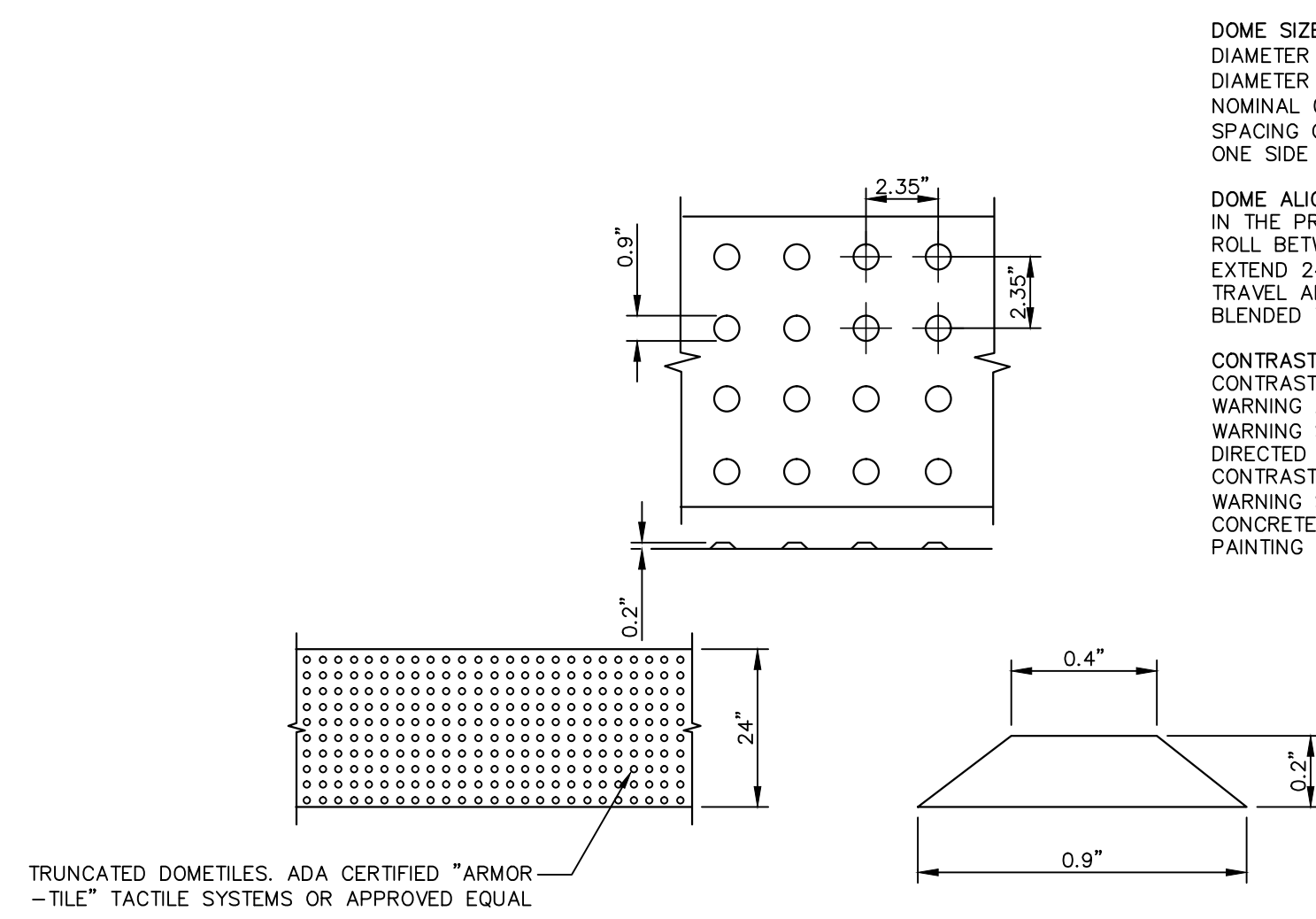


LEGEND

DETECTABLE WARNING SURFACE SHALL CONSIST OF RAISED TRUNCATED DOMES WITH A NOMINAL DIAMETER OF 0.9 IN. A NOMINAL HEIGHT OF 0.2 IN AND A CENTER TO CENTER NOMINAL SPACING OF 2.35 IN. AND SHALL NOT BE STAGGERED. THE SURFACE SHALL BE A MINIMUM OF 70% CONTRAST IN LIGHT REFLECTANCE BETWEEN THE DETECTABLE WARNING AND AN ADJOINING SURFACE, OR THE DETECTABLE WARNING SHALL BE "RED BRICK" COLOR, UNLESS OTHERWISE DIRECTED BY THE CITY OF EL PASO ROAD AND BRIDGE DEPARTMENT. THE MATERIAL USED TO PROVIDE VISUAL CONTRAST SHALL BE AN INTEGRAL PART OF THE DETECTABLE WARNING SURFACE. ADA TILE SHALL BE PROVIDED BY PLACING AND MIXING TINT IN THE PLASTIC CONCRETE USED FOR THE DETECTABLE WARNING SURFACE. NO PAINTING OF SURFACE SHALL BE PERMITTED.

HANDICAP RAMPS NOTES:

- ALL SLOPES ARE MAXIMUM ALLOWABLE. THE LEAST POSSIBLE SLOPE THAT WILL STILL DRAIN PROPERLY SHOULD BE USED. RAMP LENGTH OR GRADE OF APPROACH SIDEWALKS MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER.
- THE MINIMUM SIDEWALK WIDTH IS 5'. WHERE A 5' SIDEWALK CAN NOT BE PROVIDED DUE TO SITE CONSTRAINTS, A MINIMUM 3' SIDEWALK WITH 5' X 5' PASSING AREAS AT INTERVALS NOT TO EXCEED 200 FT IS REQUIRED.
- LANDINGS SHALL BE 5' X 5' MINIMUM WITH A MAXIMUM 2% SLOPE IN ANY DIRECTION.
- MANEUVERING SPACE AT THE BOTTOM OF CURB RAMPS SHALL BE A MINIMUM OF 4' X 4' WHOLLY CONTAINED WITHIN THE CROSSWALK AND WHOLLY OUTSIDE THE PARALLEL VEHICULAR TRAVEL PATH.
- CURB RAMPS WITH RETURNED CURBS MAY BE USED ONLY WHERE PEDESTRIANS WOULD NOT NORMALLY WALK ACROSS THE RAMP. OTHERWISE, FLARED SIDES SHALL BE PROVIDED.
- ALL CONCRETE SIDEWALK SURFACES SHALL RECEIVE A LIGHT BROOM FINISH UNLESS NOTED OTHERWISE IN THE PLANS.
- RAMP TEXTURES MUST CONSIST OF TRUNCATED DOMED SURFACES. TEXTURES ARE REQUIRED TO BE DETECTABLE UNDERFOOT. SURFACES THAT WOULD ALLOW WATER TO ACCUMULATE ARE PROHIBITED. REFER TO TRUNCATED DOME DETAIL.
- CROSSWALK DIMENSIONS, CROSSWALK MARKINGS AND STOP BAR LOCATIONS SHALL BE AS SHOWN ELSEWHERE IN THE PLANS. AT INTERSECTIONS WHERE CROSSWALK MARKINGS ARE NOT REQUIRED, RAMPS SHALL BE ALIGNED WITH THEORETICAL CROSSWALKS, OR AS DIRECTED BY THE ENGINEER.
- MAXIMUM ALLOWABLE CROSS SLOPE ON SIDEWALK AND RAMP SURFACES IS 2%.
- ADDITIONAL INFORMATION ON CURB RAMP LOCATION, DESIGN, LIGHT REFLECTIVE VALUE AND TEXTURE MAY BE FOUND IN THE CURRENT EDITION OF THE TEXAS ACCESSIBILITY STANDARDS (TAS) PREPARED AND ADMINISTERED BY THE TEXAS DEPARTMENT OF LICENSING AND REGULATION (TDLR).

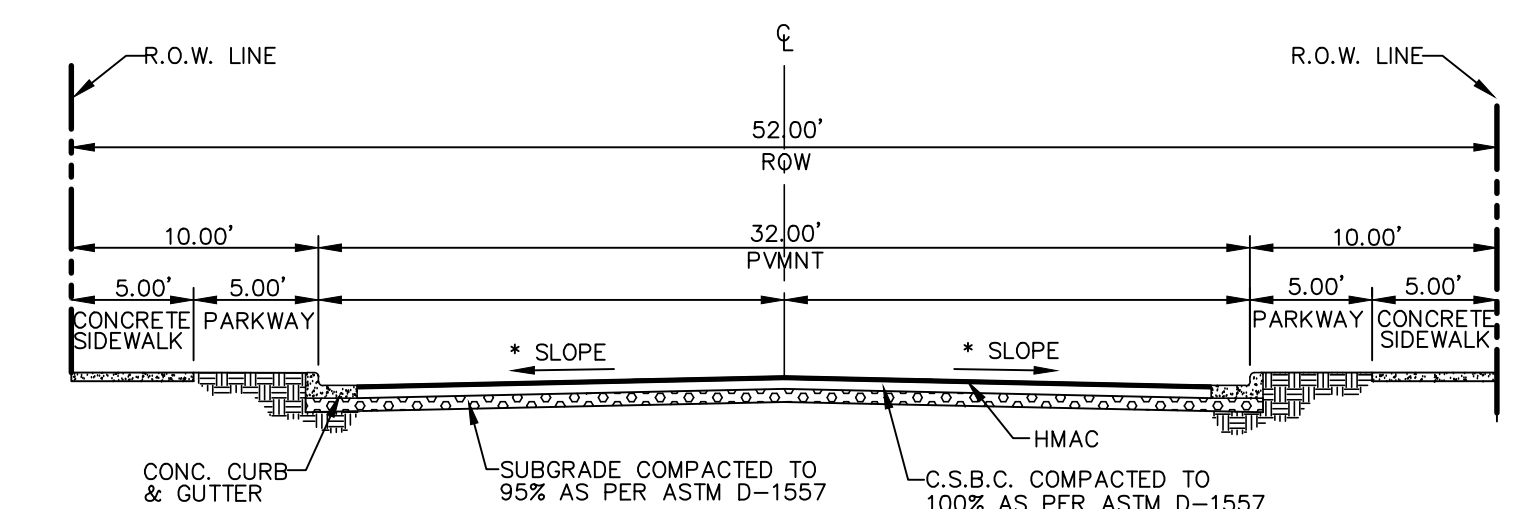


3 TRUNCATED DOME SIZE AND SPACING
C9.3 SCALE: N.T.S.

DOMES SIZE AND SPACING. TRUNCATED DOMES SHALL HAVE A DIAMETER OF NOMINAL 0.9 INCHES (23 mm) AT THE BOTTOM, A DIAMETER OF 0.4 INCH (10 mm) AT THE TOP, A HEIGHT OF NOMINAL 0.2 INCHES (5 mm), AND A CENTER-TO-CENTER SPACING OF NOMINAL 2.35 INCHES (60 mm) MEASURED ALONG ONE SIDE OF A SQUARE ARRANGEMENT.

DOMES ALIGNMENT. DOMES SHALL BE ALIGNED ON A SQUARE GRID IN THE PREDOMINANT DIRECTION OF TRAVEL TO PERMIT WHEELS TO ROLL BETWEEN DOMES. DETECTABLE WARNING SURFACES SHALL EXTEND 24 INCHES (610 mm) MINIMUM IN THE DIRECTION OF TRAVEL AND THE FULL WIDTH OF THE CURB RAMP, LANDING, OR BLENDED TRANSITION.

CONTRAST. THERE SHALL BE A MINIMUM OF 70 PERCENT CONTRAST IN LIGHT REFLECTANCE BETWEEN THE DETECTABLE WARNING AND AN ADJOINING SURFACE, OR THE DETECTABLE WARNING SHALL BE "RED BRICK" COLOR, UNLESS OTHERWISE DIRECTED BY THE OWNER. THE MATERIAL USED TO PROVIDE VISUAL CONTRAST SHALL BE AN INTEGRAL PART OF THE DETECTABLE WARNING SURFACE. ADA CERTIFIED "ARMOR-TILE" REQUIRED. CONCRETE POURED TRUNCATED DOMES NOT ALLOWED. NO PAINTING OF SURFACE SHALL BE PERMITTED.



***CBR NOTE:**
STREET IMPROVEMENTS (FLEXIBLE PAVEMENT DESIGN STRUCTURE) SHALL BE CONSTRUCTED IN ACCORDANCE WITH CURRENT CITY OF EL PASO PAVING CONSTRUCTION DETAILS AND STANDARD SPECIFICATIONS. CBR @ EVERY 500' RESULTS TO BE SUBMITTED TO THE CITY OF EL PASO FOR REVIEW AND APPROVAL PRIOR TO PLACEMENT OF PAVEMENT. THE CBR RESULTS WILL DICTATE THE REQUIRED THICKNESS OF THE PAVEMENT STRUCTURE BASED ON CITY OF EL PASO DESIGN STANDARDS. THE DEVELOPER SHALL PLACE THE HIGHER VALUE OF PAVEMENT STRUCTURE BASED ON THE CBR RESULTS OR THE MINIMUM PAVEMENT THICKNESS AS SHOWN ON THE CITY OF EL PASO DESIGN STANDARDS.

4 TYPICAL 52' ROW STREET SECTION DETAIL
C9.3 (RESIDENTIAL SUBCOLLECTOR)
SCALE: N.T.S.

REFERENCES - BENCHMARKS
CITY MONUMENT LOCATED AT THE CENTERLINE INTERSECTION OF CLYDESDALE DRIVE AND PALMOLINO STREET, ELEVATION = 3939.32 (NAD 86).

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GROUP
TEXAS REGISTERED ENGINEERING FIRM F-4564

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JOSUE L. AZARTE
8075

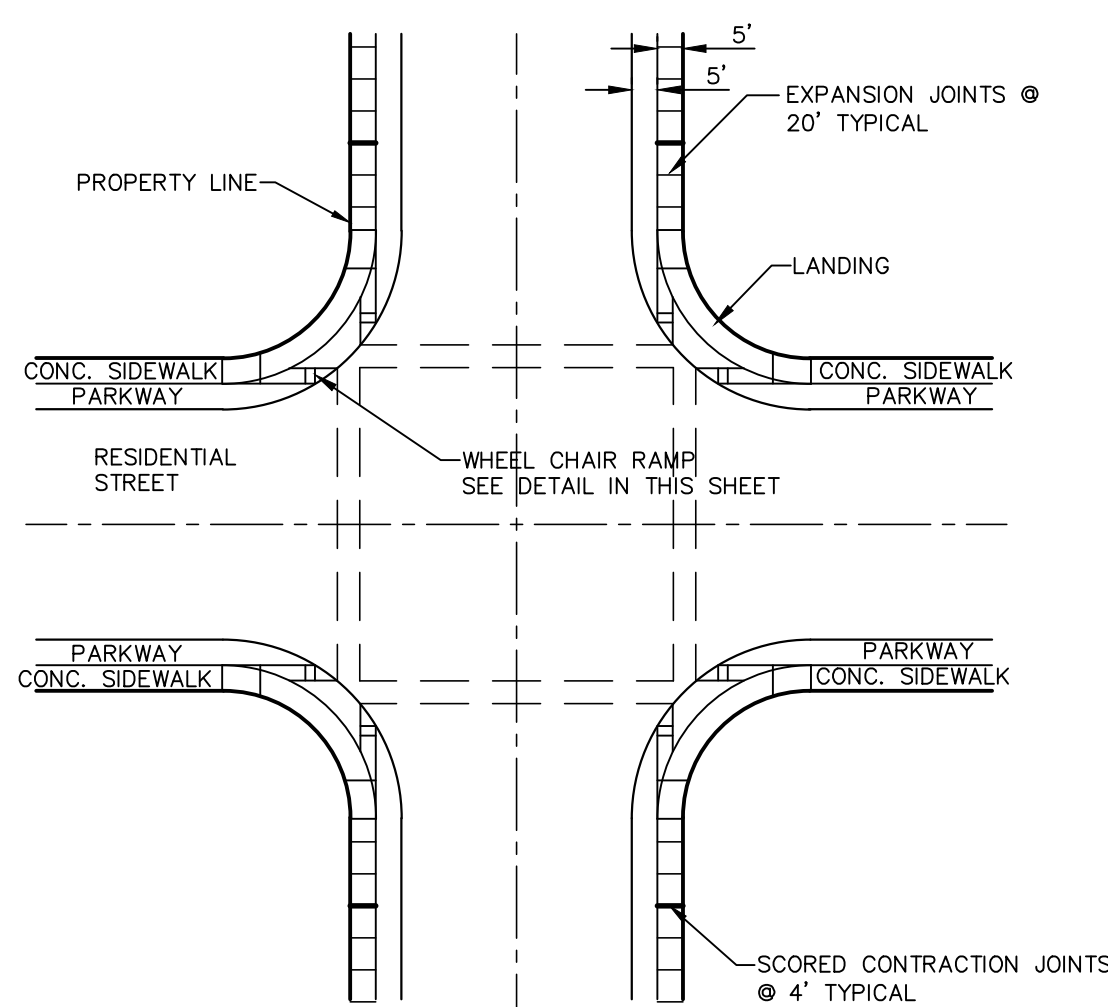
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Horizontal: N/A
Vertical: N/A
Contour Interval: N/A
DATE: JUNE 2020
DESIGN BY: R.O.
DRAWN BY: F.Z.
CHKD. BY: F.Z.
APPVD. BY: J.L.A.
JOB No. ... 2000-223

PROJECT TITLE
**HIDDEN VILLAGE
UNIT TWO
SUBDIVISION IMPROVEMENTS**

SHEET TITLE
STANDARD
DETAILS

(SHEET 3 OF 6)
SHEET NO.

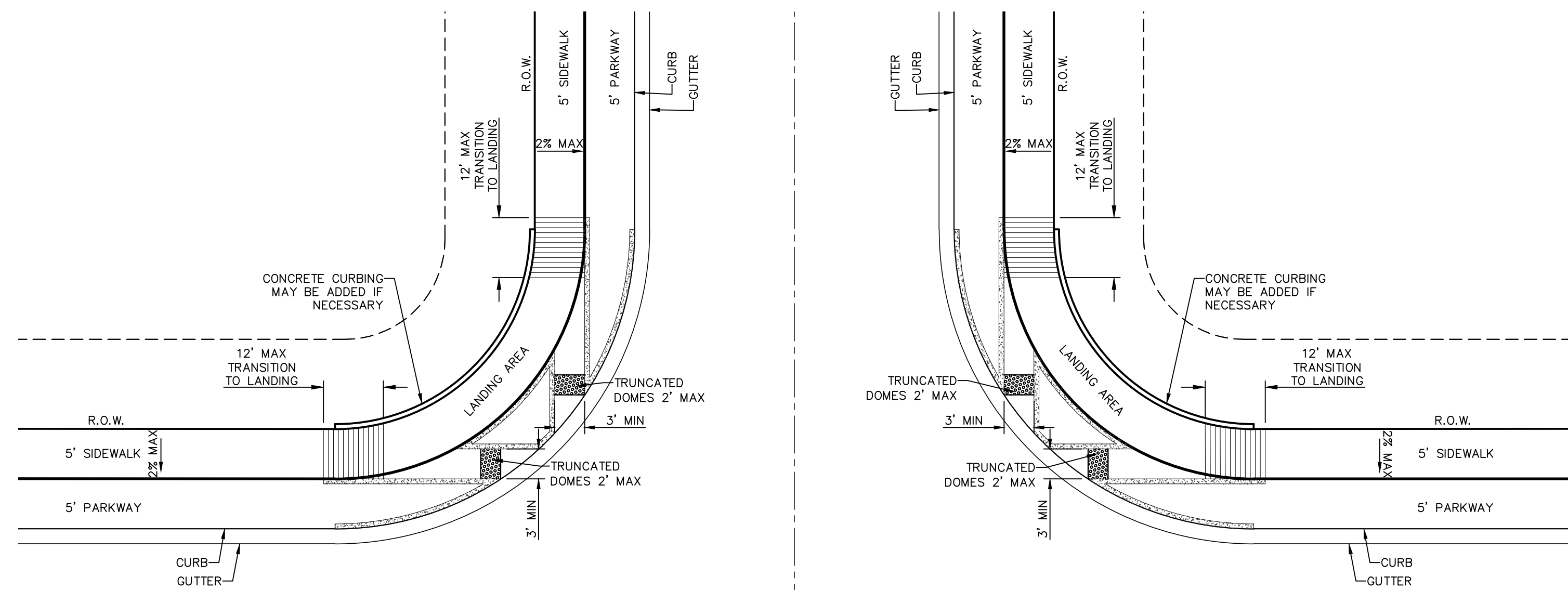
C9.3R



NOTES:

- RAMPS MAY BE PLACED AS SUGGESTED, HOWEVER EXISTING LIGHT POLES, FIREHYDRANTS, DROP INLETS, ETC., MAY AFFECT PLACEMENT.
- THE CONCRETE SURFACE SHALL HAVE A ROUGH, NONSKID TYPE FINISH.
- CONSTRUCTION METHODS SHALL CONFORM WITH THE CITY OF EL PASO SPECIFICATIONS.
- ALL PARKING AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH CURRENT CITY OF EL PASO.

1 WHEELCHAIR RAMP STREET PLAN
SCALE: N.T.S.



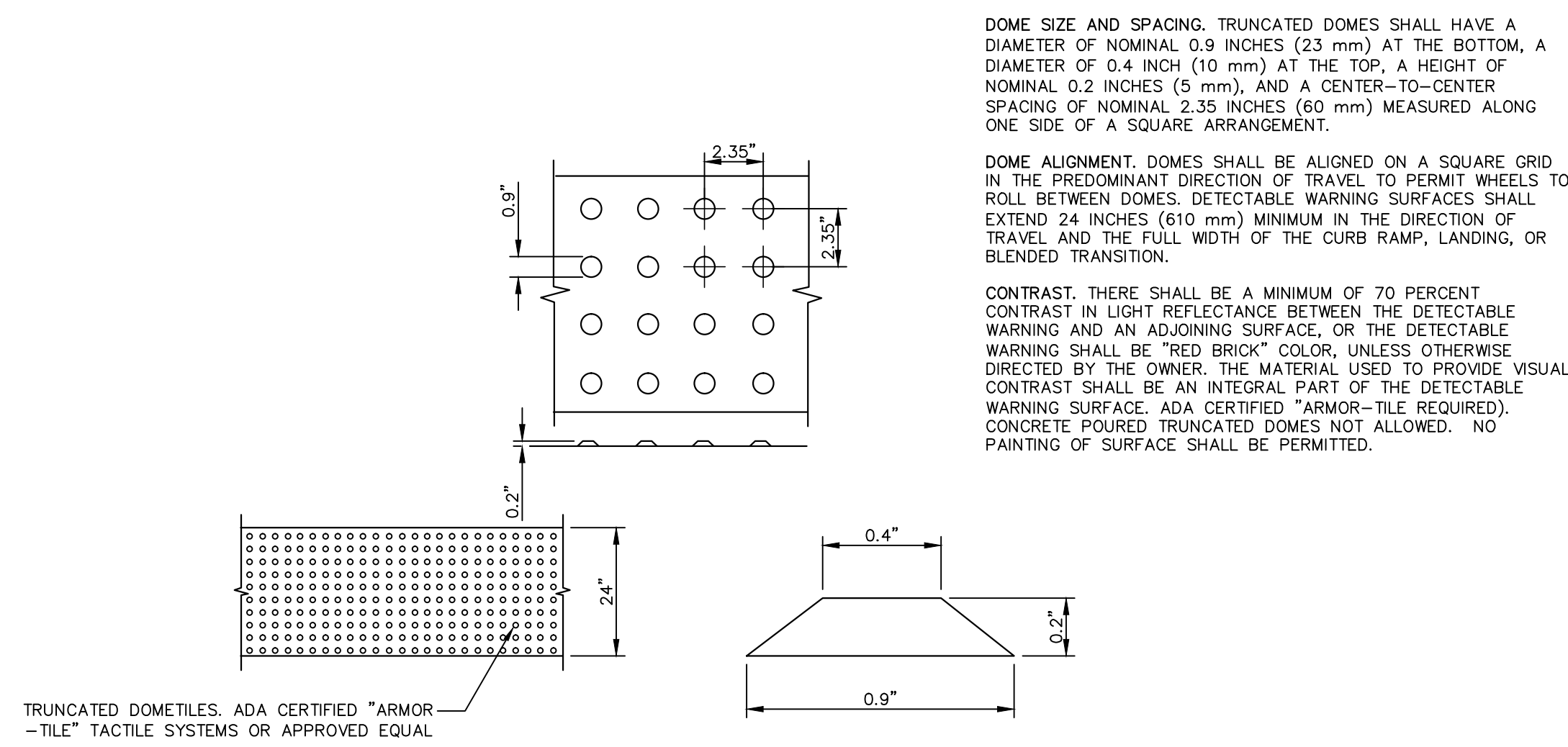
2 DIRECTIONAL RAMP AT INTERSECTION
SCALE: N.T.S.

LEGEND

DETECTABLE WARNING SURFACE SHALL CONSIST OF RAISED TRUNCATED DOMES WITH A NOMINAL DIAMETER OF 0.9 IN. A NOMINAL HEIGHT OF 0.2 IN AND A CENTER TO CENTER NOMINAL SPACING OF 2.35 IN. AND SHALL NOT BE STAGGERED. THE SURFACE SHALL BE A MINIMUM OF 70% CONTRAST IN LIGHT REFLECTANCE BETWEEN THE DETECTABLE WARNING AND AN ADJOINING SURFACE, OR THE DETECTABLE WARNING SHALL BE "RED BRICK" COLOR, UNLESS OTHERWISE DIRECTED BY THE CITY OF EL PASO ROAD AND BRIDGE DEPARTMENT. THE MATERIAL USED TO PROVIDE VISUAL CONTRAST SHALL BE AN INTEGRAL PART OF THE DETECTABLE WARNING SURFACE. ADA TILE SHALL BE PROVIDED BY PLACING AND MIXING TINT IN THE PLASTIC CONCRETE USED FOR THE DETECTABLE WARNING SURFACE. NO PAINTING OF SURFACE SHALL BE PERMITTED.

NOTES:

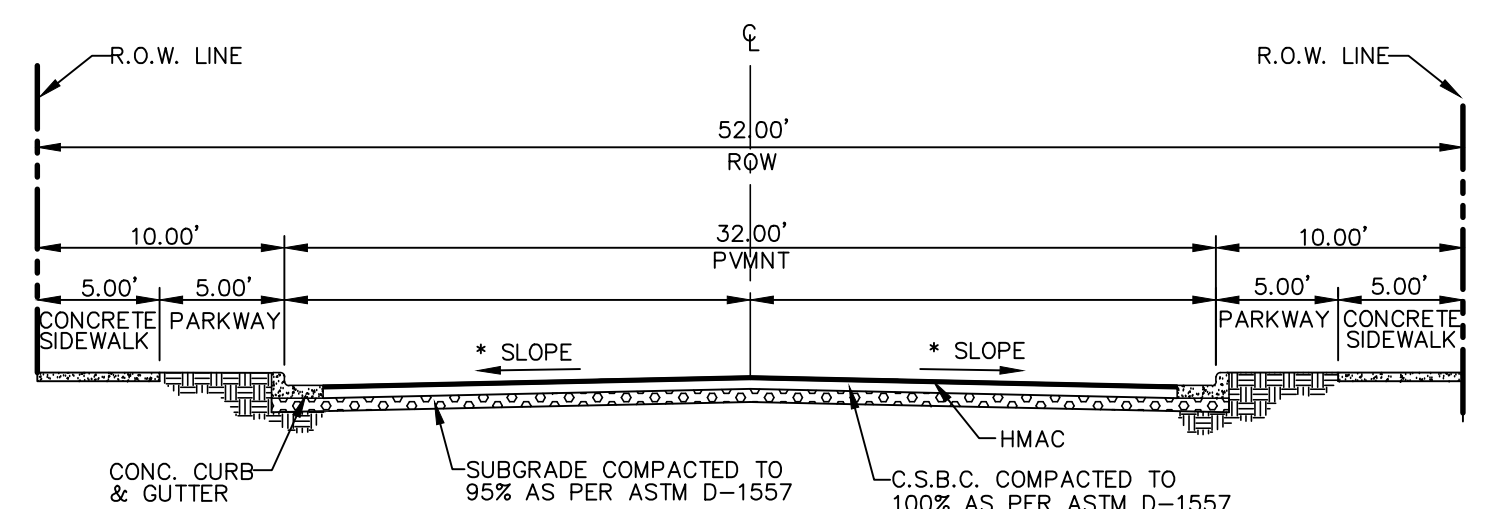
- ALL SLOPES ARE MAXIMUM ALLOWABLE. THE LEAST POSSIBLE SLOPE THAT WILL STILL DRAIN PROPERLY SHOULD BE USED. RAMP LENGTH OR GRADE OF APPROACH SIDEWALKS MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER.
- THE MINIMUM SIDEWALK WIDTH IS 5'. WHERE A 5' SIDEWALK CAN NOT BE PROVIDED DUE TO SITE CONSTRAINTS, A MINIMUM 3' SIDEWALK WITH 5' X 5' PASSING AREAS AT INTERVALS NOT TO EXCEED 200 FT IS REQUIRED.
- LANDINGS SHALL BE 5' X 5' MINIMUM WITH A MAXIMUM 2% SLOPE IN ANY DIRECTION.
- MANEUVERING SPACE AT THE BOTTOM OF CURB RAMPS SHALL BE A MINIMUM OF 4' X 4' WHOLLY CONTAINED WITHIN THE CROSSWALK AND WHOLLY OUTSIDE THE PARALLEL VEHICULAR TRAVEL PATH.
- CURB RAMPS WITH RETURNED CURBS MAY BE USED ONLY WHERE PEDESTRIANS WOULD NOT NORMALLY WALK ACROSS THE RAMP. OTHERWISE, FLARED SIDES SHALL BE PROVIDED.
- ALL CONCRETE SIDEWALK SURFACES SHALL RECEIVE A LIGHT BROOM FINISH UNLESS NOTED OTHERWISE IN THE PLANS.
- RAMP TEXTURES MUST CONSIST OF TRUNCATED DOMED SURFACES. TEXTURES ARE REQUIRED TO BE DETECTABLE UNDERFOOT. SURFACES THAT WOULD ALLOW WATER TO ACCUMULATE ARE PROHIBITED. REFER TO TRUNCATED DOME DETAIL.
- CROSSWALK DIMENSIONS, CROSSWALK MARKINGS AND STOP BAR LOCATIONS SHALL BE AS SHOWN ELSEWHERE IN THE PLANS. AT INTERSECTIONS WHERE CROSSWALK MARKINGS ARE NOT REQUIRED, RAMPS SHALL BE ALIGNED WITH THEORETICAL CROSSWALKS, OR AS DIRECTED BY THE ENGINEER.
- MAXIMUM ALLOWABLE CROSS SLOPE ON SIDEWALK AND RAMP SURFACES IS 2%.
- ADDITIONAL INFORMATION ON CURB RAMP LOCATION, DESIGN, LIGHT REFLECTIVE VALUE AND TEXTURE MAY BE FOUND IN THE CURRENT EDITION OF THE TEXAS ACCESSIBILITY STANDARDS (TAS) PREPARED AND ADMINISTERED BY THE TEXAS DEPARTMENT OF LICENSING AND REGULATION (TDLR).



3 TRUNCATED DOME SIZE AND SPACING
SCALE: N.T.S.



Oscar Villalobos
BY DATE



***CBR NOTE:**
STREET IMPROVEMENTS (FLEXIBLE PAVEMENT DESIGN STRUCTURE) SHALL BE CONSTRUCTED IN ACCORDANCE WITH CURRENT CITY OF EL PASO PAVING CONSTRUCTION DETAILS AND STANDARD SPECIFICATIONS. CBR @ EVERY 500' RESULTS TO BE SUBMITTED TO THE CITY OF EL PASO FOR REVIEW AND APPROVAL PRIOR TO PLACEMENT OF PAVEMENT. THE CBR RESULTS WILL DICTATE THE REQUIRED THICKNESS OF THE PAVEMENT STRUCTURE BASED ON CITY OF EL PASO DESIGN STANDARDS. THE DEVELOPER SHALL PLACE THE HIGHER VALUE OF PAVEMENT STRUCTURE BASED ON THE CBR RESULTS OR THE MINIMUM PAVEMENT THICKNESS AS SHOWN ON THE CITY OF EL PASO DESIGN STANDARDS.

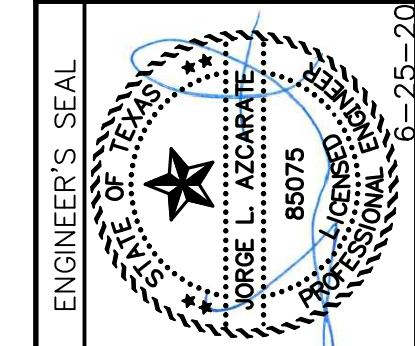
4 TYPICAL 52' ROW STREET SECTION DETAIL (RESIDENTIAL SUBCOLLECTOR)
SCALE: N.T.S.

REFERENCES - BENCHMARKS

CITY MONUMENT LOCATED AT THE CENTERLINE INTERSECTION OF CLYDESDALE DRIVE AND PALOMINO STREET, THE NORTH AMERICAN VERTICAL DATUM IS ELEVATION = 3939.32 (NAD 86).	DATE	REVISIONS	BY
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813 N. Kansas St.
Suite 300
El Paso, TX 79902
915.544.5232
www.ceagroup.net

TEXAS REGISTERED ENGINEERING FIRM F-4564



SCALE: AS SHOWN

Horizontal: N/A	Vertical: N/A
Contour Interval: N/A	DATE: JUNE 2020
DESIGN BY: R.O.	DRAWN BY: F.Z.
CHKD. BY: F.Z.	APPD. BY: J.L.A.
	JOB No. 2000-223

PROJECT TITLE
**HIDDEN VILLAGE
UNIT TWO
SUBDIVISION IMPROVEMENTS**

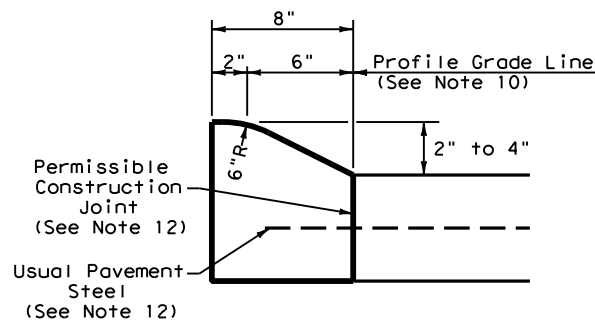
SHEET TITLE
**STANDARD
DETAILS**

(SHEET 3 OF 6)
SHEET NO.

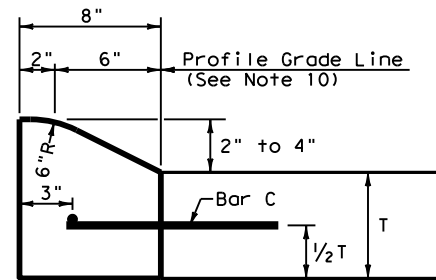
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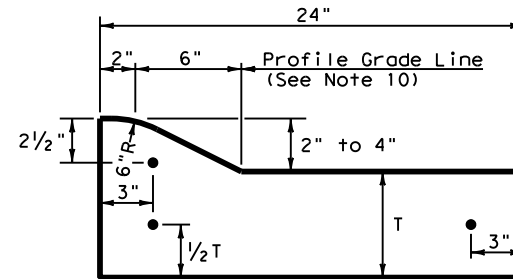
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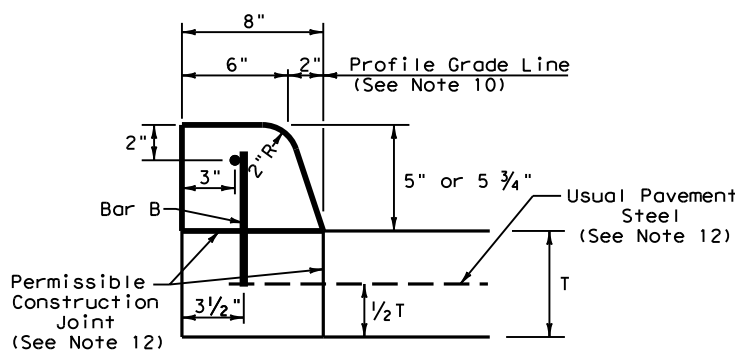
TYPE I CURB (MONOLITHIC)
2" - 4" HEIGHT



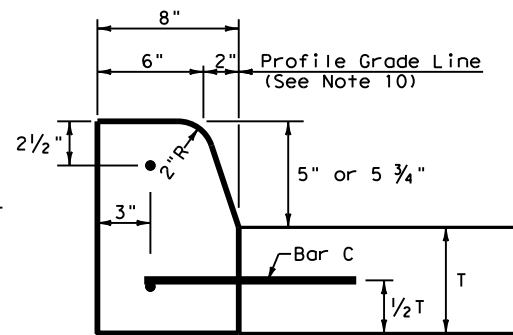
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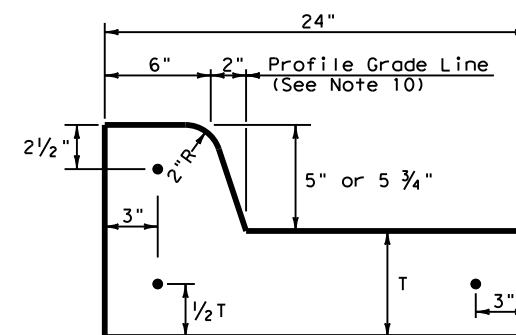
TYPE I CURB AND GUTTER
2" - 4" HEIGHT



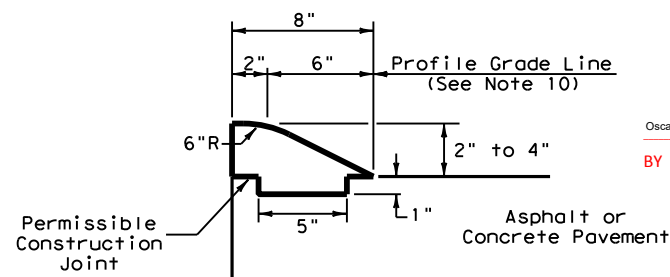
TYPE II CURB (MONOLITHIC)
5" - 5 3/4" HEIGHT



TYPE II CURB
5" - 5 3/4" HEIGHT



TYPE II CURB AND GUTTER
5" - 5 3/4" HEIGHT



TYPE III CURB (KEYED)
2" - 4" HEIGHT

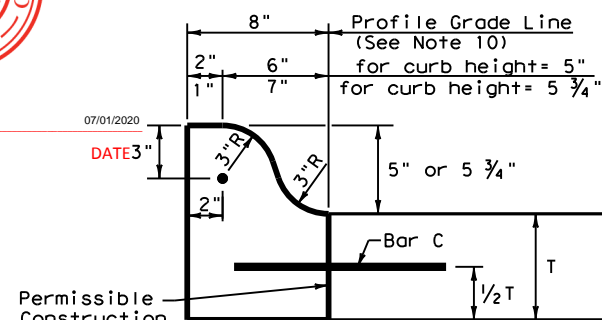


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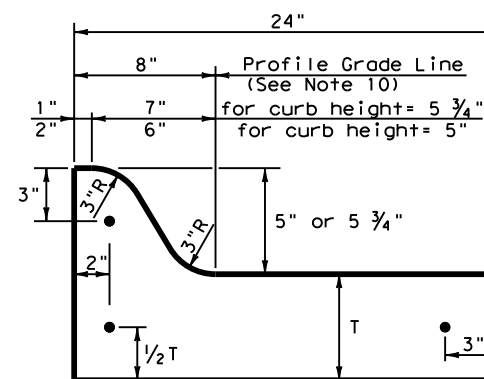
BY

07/01/2020

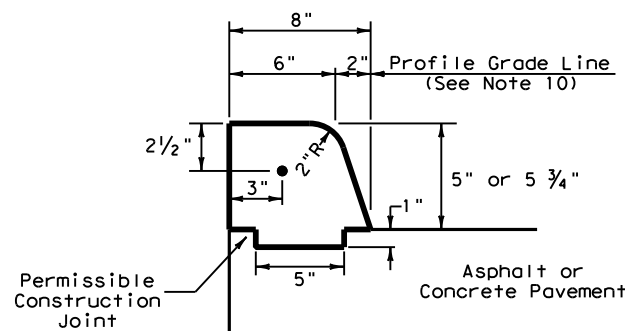
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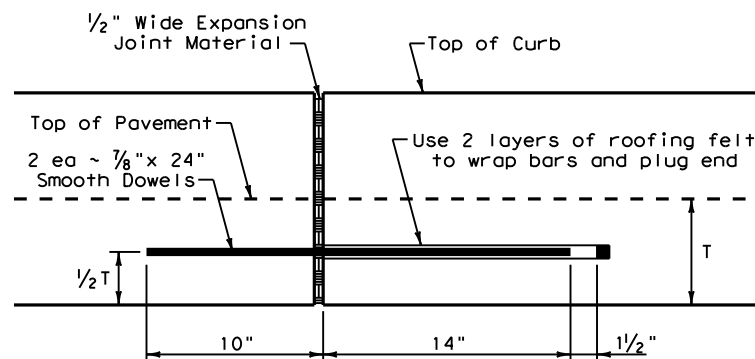
TYPE IIa CURB
5" - 5 3/4" HEIGHT



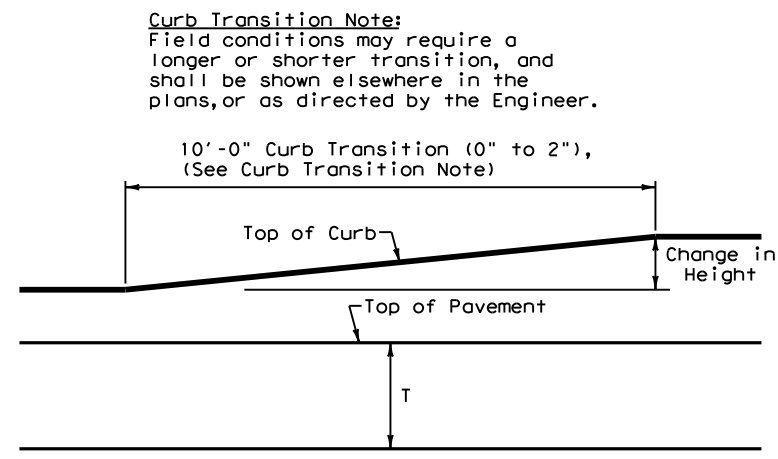
TYPE IIa CURB AND GUTTER
5" - 5 3/4" HEIGHT



TYPE IV CURB (KEYED)
5" - 5 3/4" HEIGHT



EXPANSION JOINT DETAIL

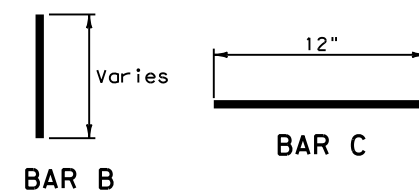


CURB TRANSITION

Note: To be paid for as Highest Curb

General Notes

- All materials and construction shall be in accordance with Item 529, "Concrete Curb, Gutter, and Combined Curb and Gutter."
- Concrete shall be Class A.
- When reinforcing bars are used, they shall be No.4 unless otherwise shown. The use of synthetic fiber in lieu of steel reinforcing is acceptable, provided the fiber producer is on the Department Producer List (MPL), maintained by TxDOT, Construction Division.
- Round exposed sharp edges with a rounding tool, to a minimum radius of 1/4 inch.
- All existing curbs and driveways to be removed shall be sawed or removed at existing joints.
- Where concrete curb is placed on existing concrete pavement, the pavement shall be drilled and the reinforcing bars grouted in place.
- Expansion and contraction joints shall be constructed to match pavement joints in all curbs and curb and gutter adjacent to jointed concrete pavement. Where placement of curb or curb and gutter is not adjacent to concrete pavement, expansion joints shall be provided at structures, curb returns at streets, and at locations directed by The Engineer.
- Vertical and horizontal dowel bars and transverse reinforcing bars shall be placed at four feet C-C.
- Dimension 'T' shown is the thickness of concrete pavement. When curb is installed adjacent to flexible pavement dimension 'T' is 8" maximum.
- Usual profile grade line. Refer to typical sections and plan-profile sheets for exact locations.
- One-half inch expansion joint material shall be provided where curb or curb and gutter is adjacent to sidewalk or riprap.
- When vertical permissible construction joints are used, resulting in a longitudinal construction joint in the pavement, the longitudinal pavement steel shall be placed in accordance with pavement details shown elsewhere in the plans for longitudinal construction joints. Reinforcing steel for curb section shall then conform to that required for concrete curb.

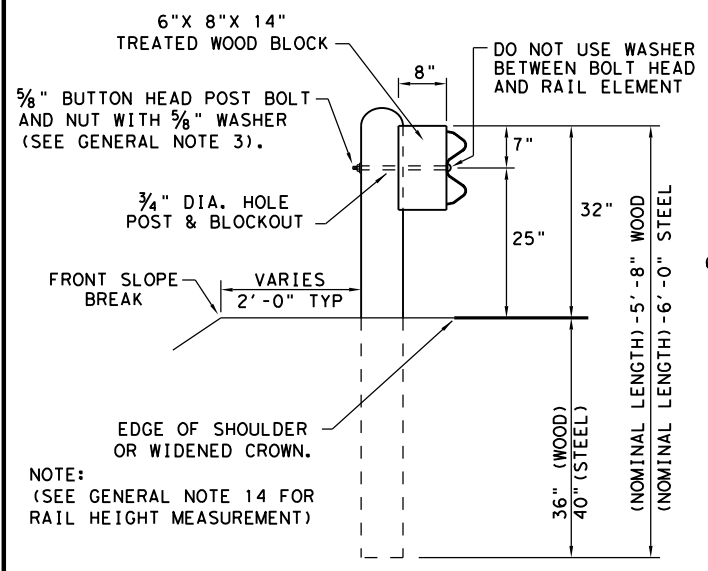


Curb Transition Note:
Field conditions may require a longer or shorter transition, and shall be shown elsewhere in the plans, or as directed by the Engineer.

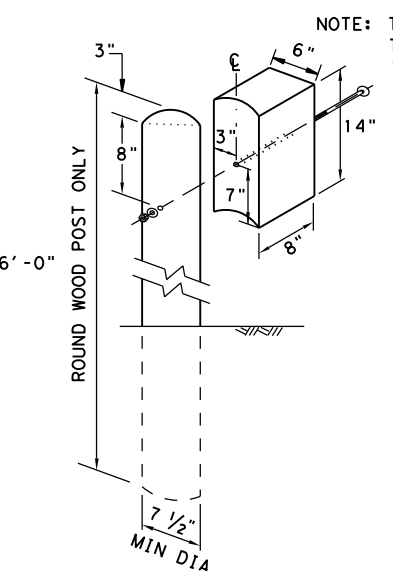
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<h2>CONCRETE CURB AND GUTTER</h2> <h3>CCCG-12</h3>			
FILE: ccog12.dgn	DN: TxDOT	CK: AM	DW: VP
© TxDOT: 1995	CONT	SECT	JOB
UPDATED 2012 - VP	REVISIONS		HIGHWAY
DIST	COUNTY	SHEET NO.	

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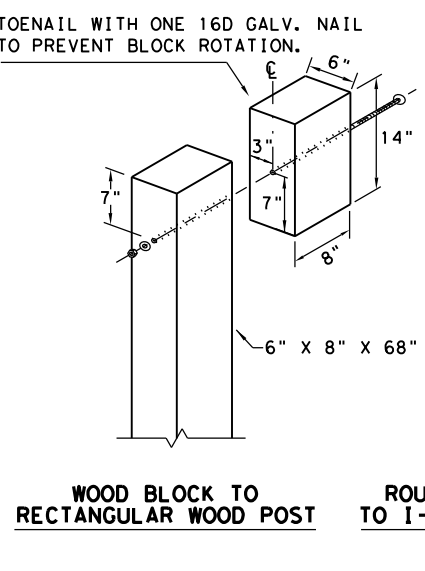
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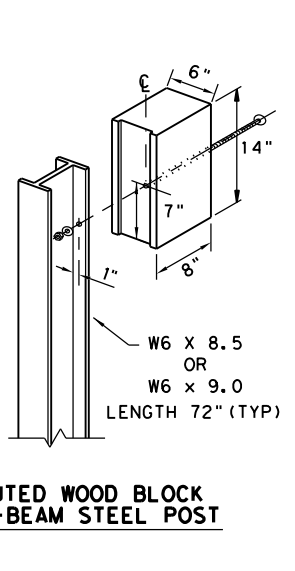
TYPICAL POST PLACEMENT



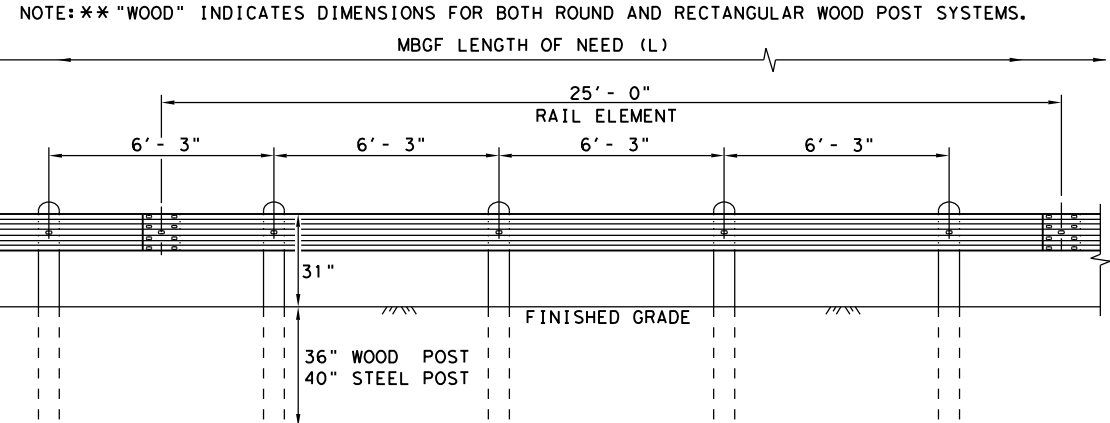
WOOD BLOCK TO ROUND WOOD POST



WOOD BLOCK TO RECTANGULAR WOOD POST



ROUTED WOOD BLOCK TO I-BEAM STEEL POST



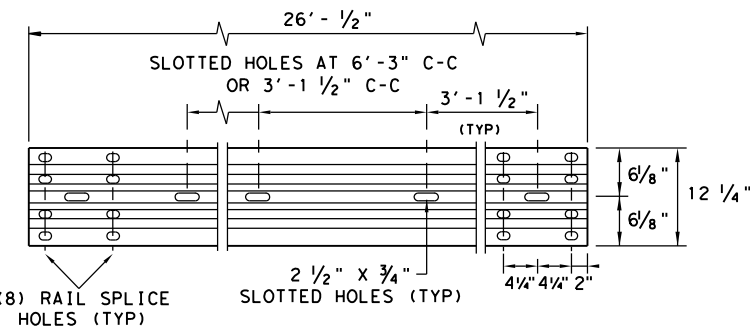
ELEVATION MID-SPAN RAIL SPLICE

SHOWING A 25' - 0" SECTION OF W-BEAM RAIL. (SEE GENERAL NOTE 2)



Oscar Villalobos
BY DATE

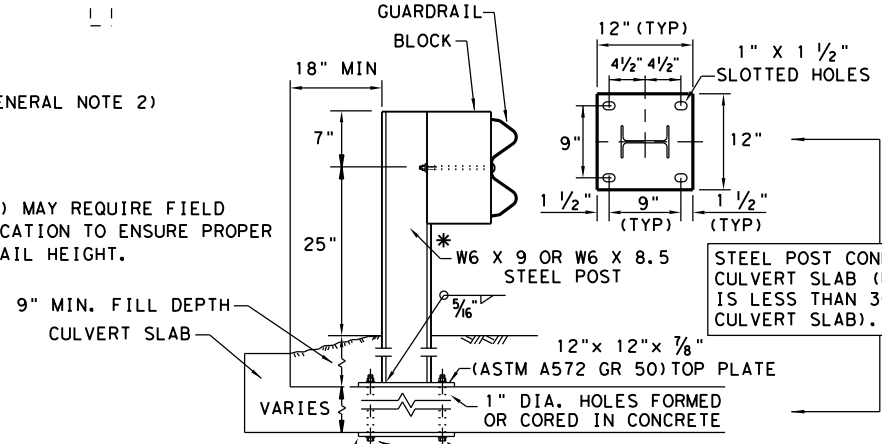
- GENERAL NOTES**
1. THE TYPE OF POST (ROUND WOOD POST, RECTANGULAR WOOD POST, OR STEEL POST) WILL BE AS SHOWN IN THE PLANS. THE EXACT POSITION OF MBGF SHALL BE SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER. STEEL POSTS TO BE GALVANIZED IN ACCORDANCE WITH ITEM 445, "GALVANIZING."
 2. RAIL ELEMENTS SHALL MEET THE REQUIREMENTS OF ITEM 540, "METAL BEAM GUARD FENCE" EXCEPT AS MODIFIED IN THE PLANS. THE CONTRACTOR MAY FURNISH RAIL ELEMENTS OF 25' - 0", OR 12' - 6" (NOM.) LENGTHS. RAIL ELEMENTS MAY HAVE SLOTTED HOLES AT 3'-1 1/2" C-C OR 6'-3" C-C. A SPECIAL LENGTH OF RAIL MAY BE MANUFACTURED TO ACCOMMODATE THE DOWNSTREAM ANCHOR TERMINAL (DAT) AND THE TRANSITION SECTIONS OF GUARDRAIL.
 3. BUTTON HEAD "POST BOLTS & NUTS" SHALL MEET THE REQUIREMENTS OF (ASTM A307), AND SHALL BE OF SUFFICIENT LENGTH TO EXTEND THROUGH THE FULL THICKNESS OF THE NUT AND 3/8" WASHER (FWC160) AND NOT MORE THAN 1" BEYOND IT. TRIM REMAINING BOLT LENGTH TO MEET REQUIRED LENGTH.
 4. FITTINGS (BOLTS, NUTS, AND WASHERS) SHALL BE GALVANIZED IN ACCORDANCE WITH ITEM 445, "GALVANIZING." FITTINGS SHALL BE SUBSIDIARY TO THE BID ITEM.
 5. CROWN SHALL BE WIDENED TO ACCOMMODATE THE METAL BEAM GUARD FENCE.
 6. THE LATERAL APPROACH TO THE GUARD FENCE, SHALL HAVE A MAXIMUM SLOPE OF 1V:10H.
 7. IF SHOWN ELSEWHERE IN THE PLANS OR AS DIRECTED BY THE ENGINEER, THE GUARD FENCE MAY BE FLARED AT A RATE OF 25:1 OR FLATTER.
 8. UNLESS OTHERWISE SHOWN IN THE PLANS, GUARD FENCE PLACED IN THE VICINITY OF CURBS SHALL BE POSITIONED SO THAT THE FACE OF CURB IS LOCATED DIRECTLY BELOW OR BEHIND THE FACE OF THE RAIL. RAIL PLACED OVER CURBS SHALL BE INSTALLED SO THAT THE POST BOLT IS LOCATED APPROXIMATELY 25 INCHES ABOVE THE GUTTER PAN OR EDGE OF SHOULDER.
 9. APPLICATIONS IN SOLID ROCK ARE ONLY ALLOWED WITH STEEL POSTS. IF SOLID ROCK IS ENCOUNTERED WITHIN 0 TO 18" OF THE FINISHED GRADE, DRILL A 24" DIA. HOLE, 24" INTO THE ROCK. IF SOLID ROCK IS ENCOUNTERED BELOW 18", DRILL A 12" DIA. HOLE, 12" INTO THE ROCK OR TO THE STANDARD EMBEDMENT DEPTH, WHICHEVER MAYBE LESS. ANY EXCESS POST LENGTH, AFTER MEETING THESE DEPTHS, MAY BE FIELD CUT TO ENSURE PROPER GUARDRAIL MOUNTING HEIGHT. BACKFILL WITH COARSE AGGREGATE MATERIAL.
 10. POSTS SHALL NOT BE SET IN CONCRETE, OF ANY DEPTH.
 11. SPECIAL FABRICATION WILL BE REQUIRED AT INSTALLATION LOCATIONS HAVING A CURVATURE OF LESS THAN 150 FT. RADIUS.
 12. UNLESS OTHERWISE SHOWN IN THE PLANS, A COMPOSITE MATERIAL BLOCK THAT MEETS THE REQUIREMENTS OF DMS-7210, "COMPOSITE MATERIAL POSTS AND BLOCKS FOR METAL BEAM GUARD FENCE" MAY BE SUBSTITUTED FOR BLOCKS OF SIMILAR DIMENSIONS. THE CONSTRUCTION DIVISION, TXDOT MAINTAINS A MATERIAL PRODUCER LIST (MPL) FOR PRODUCERS OF MATERIALS CONFORMING TO DMS-7210 ONLY PRODUCERS ON THE MPL MAY FURNISH COMPOSITE MATERIAL BLOCKS.
 13. FOR THE LOW FILL CULVERT OPTION, POSTS LOCATED PARTIALLY OR WHOLLY BETWEEN PRECAST BOX CULVERT UNITS, THE USE OF A CAST-IN-PLACE CONCRETE CLOSURE BETWEEN BOXES IS REQUIRED. THE LENGTH OF THE CAST-IN-PLACE CONCRETE CLOSURE SHALL ACCOMMODATE THE PLACEMENT OF THE LOW FILL CULVERT OPTION. SEE CONCRETE CLOSURE DETAILS ON BRIDGE STANDARD SCP-MD.
 14. GUARDRAIL HEIGHT MEASUREMENT: WHEN THE GUARDRAIL IS LOCATED ABOVE PAVEMENT, MEASURE THE HEIGHT FROM THE PAVEMENT TO THE TOP OF THE W-BEAM RAIL. WHEN THE GUARDRAIL IS LOCATED UP TO 2 FT. OFF OF THE EDGE OF PAVEMENT OR FOR A PAVEMENT OVERLAY, USE A 10-FOOT STRAIGHTEDGE TO EXTEND THE PAVEMENT/SHOULDER SLOPE TO THE BACK OF RAIL, MEASURE FROM THE BOTTOM OF STRAIGHTEDGE TO THE TOP OF RAIL. FOR GUARDRAIL LOCATED DOWN A 10:1 SLOPE, MEASURE FROM THE NOMINAL TERRAIN.



ELEVATION 25' - 0" (NOM.) W-BEAM SECTION

NOTES: SEE GENERAL NOTE 2 FOR ALLOWABLE RAIL TYPES. SEE RAIL SPLICE DETAIL FOR REQUIRED HARDWARE.

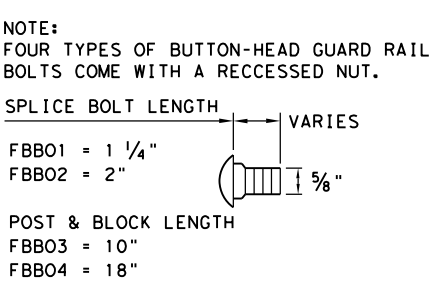
* POST(S) MAY REQUIRE FIELD MODIFICATION TO ENSURE PROPER GUARDRAIL HEIGHT.



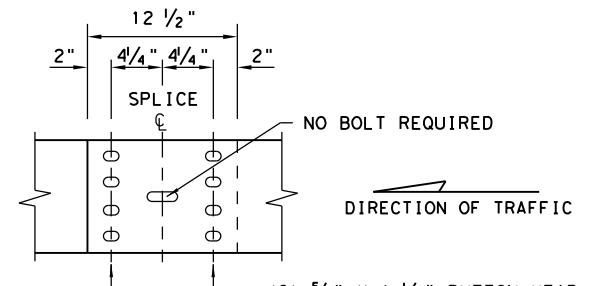
LOW FILL CULVERT POST

1. **BOLT-THROUGH OPTION:** REQUIRES A 6" MIN. SLAB THICKNESS. 7/8" DIA (ASTM A449) HEAVY HEX BOLTS WITH TWO HARDENED WASHER EACH AND HEAVY HEX NUTS. NOTE: BOLT LENGTH = SLAB PLUS 2 1/4" MIN.
2. **EPOXY ANCHOR OPTION:** THIS OPTION MAY ONLY BE USED IF THE CULVERT SLAB IS 9" MIN. THICK. THREADED ANCHOR RODS MUST BE 7/8" DIA. ASTM A449 OR A193 GRADE B7 WITH HEAVY HEX NUT, AND ONE HARDENED WASHER EACH. EMBED ANCHOR RODS 6" WITH HILTI HIT RE 500 EPOXY ADHESIVE. OTHER TYPE III CLASS C EPOXY ADHESIVES MEETING THE REQUIREMENTS OF DMS-6100, "EPOXIES AND ADHESIVES", MAY BE USED IF IT CAN BE DEMONSTRATED THAT THEY MEET OR EXCEED THE STRENGTH OF HILTI HIT RE 500 WITH THE SAME EMBEDMENT DEPTH AND THREADED ROD DIA. FOLLOW THE MANUFACTURER'S REQUIREMENTS FOR INSTALLING EPOXIED THREADED RODS. EXTEND RODS 1/4" MIN. BEYOND NUT.

NOTE: CULVERTS OF 25 FT. OR LESS, SEE GF(31)LS STANDARD FOR "LONG SPAN" OPTION.



BUTTON HEAD BOLT



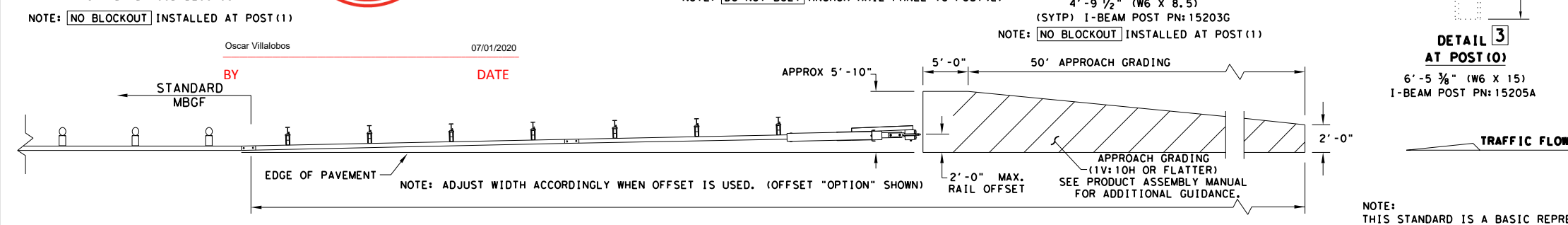
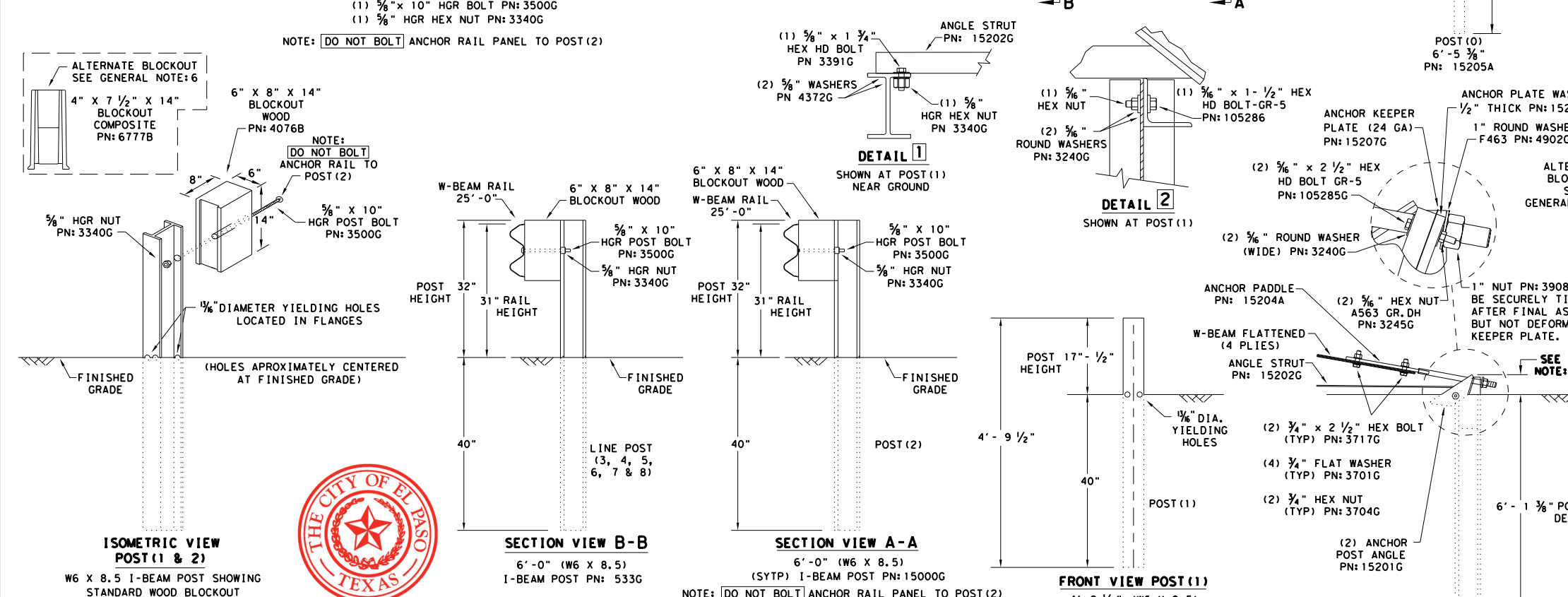
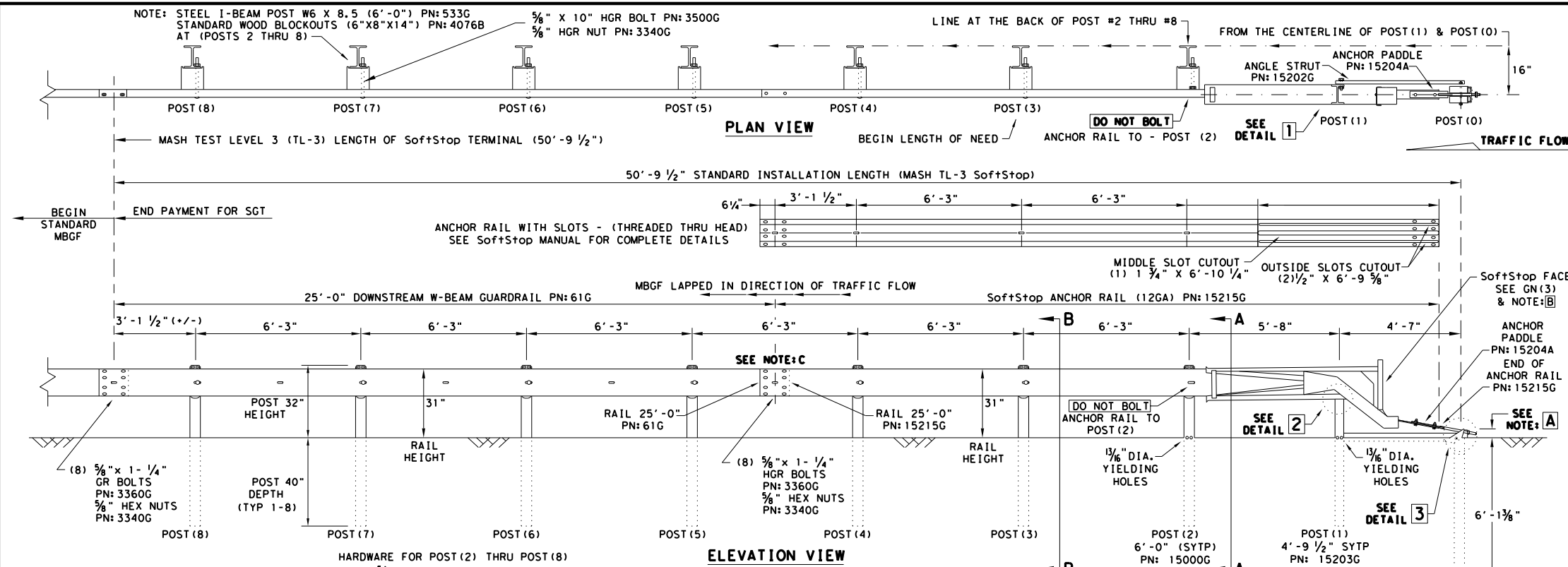
MID-SPAN RAIL SPLICE DETAIL

NOTE: SEE GENERAL NOTE 3 FOR SPLICE & POST BOLT DETAILS.

NOTE: GF(31), MID-SPAN RAIL SPLICES ARE REQUIRED WITH 6'-3" POST SPACINGS.

				Design Division Standard
METAL BEAM GUARD FENCE TL-3 MASH COMPLIANT GF(31)-19				
FILE: gf3119.dgn	DN: TXDOT	CK: KM	DW: VP	CK: CGL/AG
© TXDOT: NOVEMBER 2019	CONT	SECT	JOB	HIGHWAY
REVISIONS				
DIST	COUNTY		SHEET NO.	

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- GENERAL NOTES**
- FOR SPECIFIC INFORMATION REGARDING INSTALLATION AND TECHNICAL GUIDANCE OF THE SYSTEM, CONTACT: TRINITY HIGHWAY AT 1(888)323-6374, 2525 N. STEMMONS FREEWAY, DALLAS, TX 75207
 - FOR INSTALLATION, REPAIR AND MAINTENANCE REFER TO THE SoftStop END TERMINAL, PRODUCT DESCRIPTION ASSEMBLY MANUAL. PN:620237B
 - APPLY HIGH INTENSITY REFLECTIVE SHEETING, "OBJECT MARKER" ON THE FRONT FACE OF THE DEVICE PER MANUFACTURER'S RECOMMENDATIONS. OBJECT MARKER SHALL CONFORM TO THE STANDARDS REQUIRED IN TEXAS MUTCD.
 - FOR POST (LEAVE-OUT) INSTALLATION AND GUIDANCE SEE TxDOT'S LATEST ROADWAY MOW STRIP STANDARD.
 - HARDWARE (BOLTS, NUTS, & WASHERS) SHALL BE GALVANIZED IN ACCORDANCE WITH ITEM 445, "GALVANIZING". FITTINGS SHALL BE SUBSIDIARY TO THE BID ITEM.
 - A COMPOSITE MATERIAL BLOCKOUT THAT MEETS THE REQUIREMENTS OF DMS-7210, MAY BE SUBSTITUTED FOR BLOCKOUTS OF SIMILAR DIMENSIONS. SEE CONSTRUCTION DIVISION MATERIAL PRODUCER LIST (MPL) FOR CERTIFIED PRODUCERS.
 - IF SOLID ROCK IS ENCOUNTERED SEE THE MANUFACTURER'S INSTALLATION MANUAL AND REFER TO THE LATEST ROADWAY MOW STRIP STANDARD FOR INSTALLATION GUIDANCE.
 - POSTS SHALL NOT BE SET IN CONCRETE.
 - IT IS ACCEPTABLE TO INSTALL THE SoftStop IMPACT HEAD PARALLEL TO THE GRADE LINE OR WITH AN UPWARD TILT.
 - DO NOT ATTACH THE SoftStop SYSTEM DIRECTLY TO A RIGID BARRIER.
 - UNDER NO CIRCUMSTANCES SHALL THE GUARDRAIL WITHIN THE SoftStop SYSTEM BE CURVED.
 - A FLARE RATE OF UP TO 25:1 MAY BE USED TO PREVENT THE TERMINAL HEAD FROM ENCRoACHING ON THE SHOULDER. THE FLARE MAY BE DECREASED OR ELIMINATED FOR SPECIFIC INSTALLATIONS, IF DIRECTED BY THE ENGINEER.

NOTE: A THE INSTALLATION HEIGHT OF FULLY ASSEMBLED ANCHOR POST WILL VARY FROM 3-3/4" MIN. TO 4" MAX. ABOVE FINISHED GRADE.

NOTE: B PART PN:5852B RIGHT-SIDE (HIGH INTENSITY REFLECTIVE SHEETING) PART PN:5851B LEFT-SIDE (HIGH INTENSITY REFLECTIVE SHEETING)

NOTE: C W-BEAM SPLICE LOCATED BETWEEN LINE POST (4) AND LINE POST (5) GUARDRAIL PANEL 25'-0" PN:61G ANCHOR RAIL 25'-0" PN:15215G LAP GUARDRAIL IN DIRECTION OF TRAFFIC FLOW.

PART	QTY	MAIN SYSTEM COMPONENTS
620237B	1	PRODUCT DESCRIPTION ASSEMBLY MANUAL (LATEST REV.)
15208A	1	SoftStop HEAD (SEE MANUAL FOR RIGHT-LEFT APPROACH)
15215G	1	SoftStop ANCHOR RAIL (12GA) WITH CUTOUT SLOTS
61G	1	SoftStop DOWNSTREAM W-BEAM RAIL (12GA) (25'-0")
15205A	1	POST #0 - ANCHOR POST (6'-5 3/8")
15203G	1	POST #1 - (SYTP) (4'-9 1/2")
15000G	1	POST #2 - (SYTP) (6'-0")
533G	6	POST #3 THRU #8 - I-BEAM (W6 X 8.5) (6'-0")
4076B	7	BLOCKOUT - WOOD (ROUTED) (6" X 8" X 14")
6777B	7	BLOCKOUT - COMPOSITE (4" X 7 1/2" X 14")
15204A	1	ANCHOR PADDLE
15207G	1	ANCHOR KEEPER PLATE (24 GA)
15206G	1	ANCHOR PLATE WASHER (1/2" THICK)
15201G	2	ANCHOR POST ANGLE (10" LONG)
15202G	1	ANGLE STRUT

HARDWARE		
4902G	1	1" ROUND WASHER F436
3908G	1	1" HEAVY HEX NUT A563 GR.DH
3717G	2	3/4" X 2 1/2" HEX BOLT A325
3701G	4	3/4" ROUND WASHER F436
3704G	2	3/4" HEAVY HEX NUT A563 GR.DH
3360G	16	5/8" X 1 1/4" W-BEAM RAIL SPLICE BOLTS HGR
3340G	25	5/8" W-BEAM RAIL SPLICE NUTS HGR
3500G	7	5/8" X 10" HGR POST BOLT A307
3391G	1	5/8" X 1 3/4" HEX HD BOLT A325
4489G	1	5/8" X 9" HEX HD BOLT A325
4372G	4	5/8" WASHER F436
105285G	2	5/8" X 2 1/2" HEX HD BOLT GR-5
105286G	1	5/8" X 1 1/2" HEX HD BOLT GR-5
3240G	6	3/8" ROUND WASHER (WIDE)
3245G	3	5/8" HEX NUT A563 GR.DH
5852B	1	HIGH INTENSITY REFLECTIVE SHEETING - SEE NOTE: B



Texas Department of Transportation
Design Division Standard

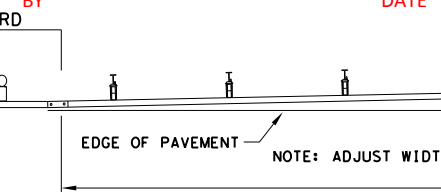
**TRINITY HIGHWAY
SOFTSTOP END TERMINAL
MASH - TL-3
SGT (10S) 31-16**

FILE: sgt10s3116	DW: TxDOT	CK: KM	DW: VP	CK: MB/VP
© TxDOT: JULY 2016	CONT	SECT	JOB	HIGHWAY
REVISIONS	DIST	COUNTY	SHEET NO.	

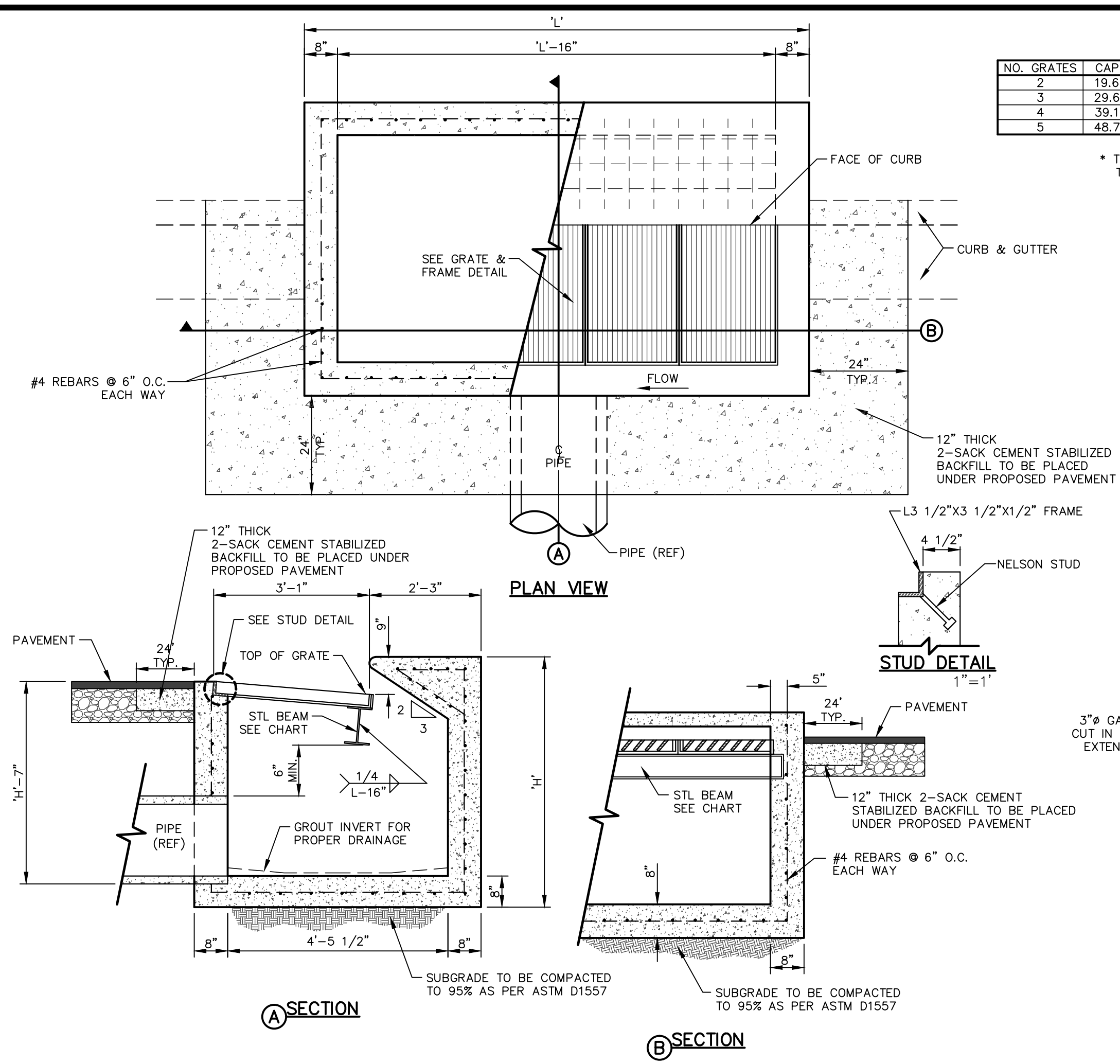
NOTE: THIS STANDARD IS A BASIC REPRESENTATION OF THE SoftStop END TERMINAL, IT IS NOT INTENDED TO REPLACE THE PRODUCT DESCRIPTION ASSEMBLY MANUAL.

DATE:
FILE:

Oscar Villalobos
DATE: 07/01/2020



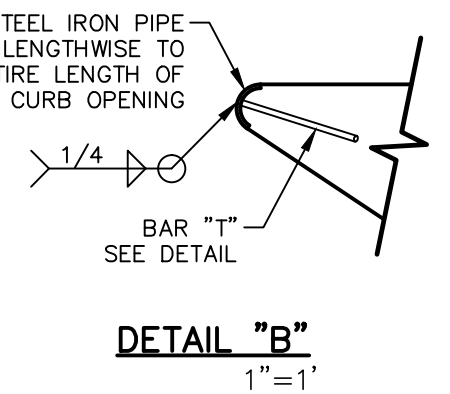
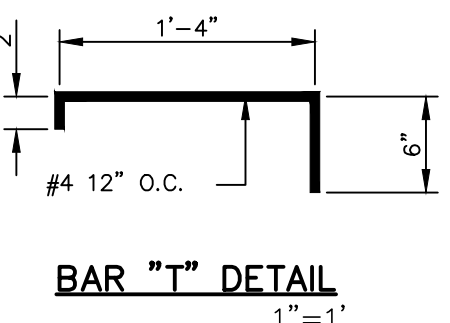
APPROACH GRADING AT GUARDRAIL END TREATMENTS



NO. GRATES	CAPACITY	L'	BEAM LENGTH	BEAM (MIN. SIZES)
2	19.63 CFS	5'-1 1/8"	4'-7 1/8"	W6x12, S6x12.5, MC6x15.1
3	29.69 CFS	7'-0 1/4"	6'-5 1/8"	W8x15, S7x15.3, MC7x17.6
4	39.10 CFS	8'-9 7/8"	8'-3 7/8"	W9x18, S8x18.4, MC10x21.9
5	48.72 CFS	10'-8"	10'-2"	W12x18, S8x21, MC10x21.9

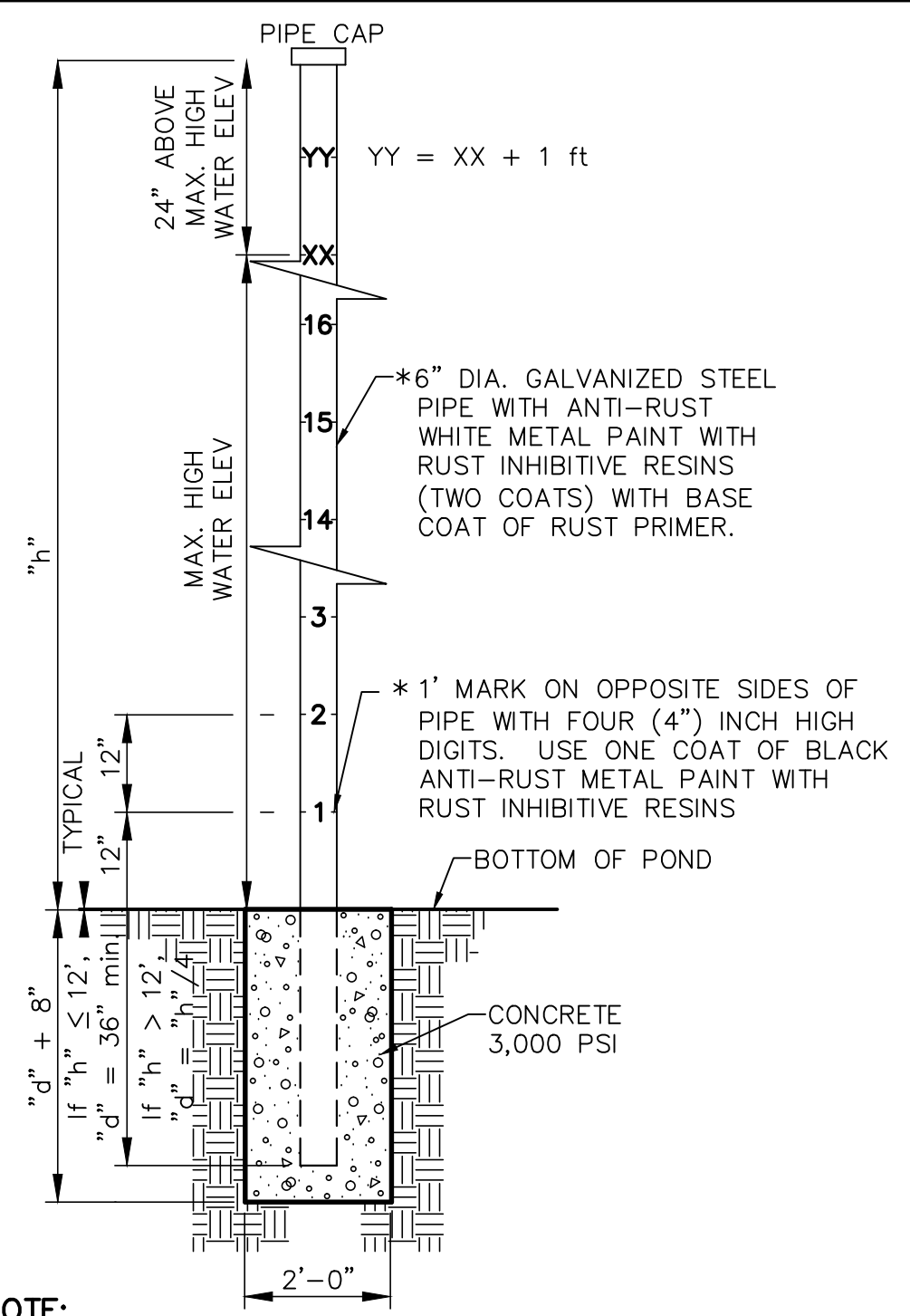
* THESE CAPACITIES CORRESPOND TO A CLOGGING FACTOR OF 0.5

- NOTES:**
- GRATES TO BE PERPENDICULAR TO TRAFFIC
 - CONCRETE TO BE 3,000 PSI (MIN.) CORE TEST @ 28 DAYS.
 - H=20" MAXIMUM
 - SEE STORM SEWER PLAN & PROFILES FOR APPROVED PIPE DIAMETER.

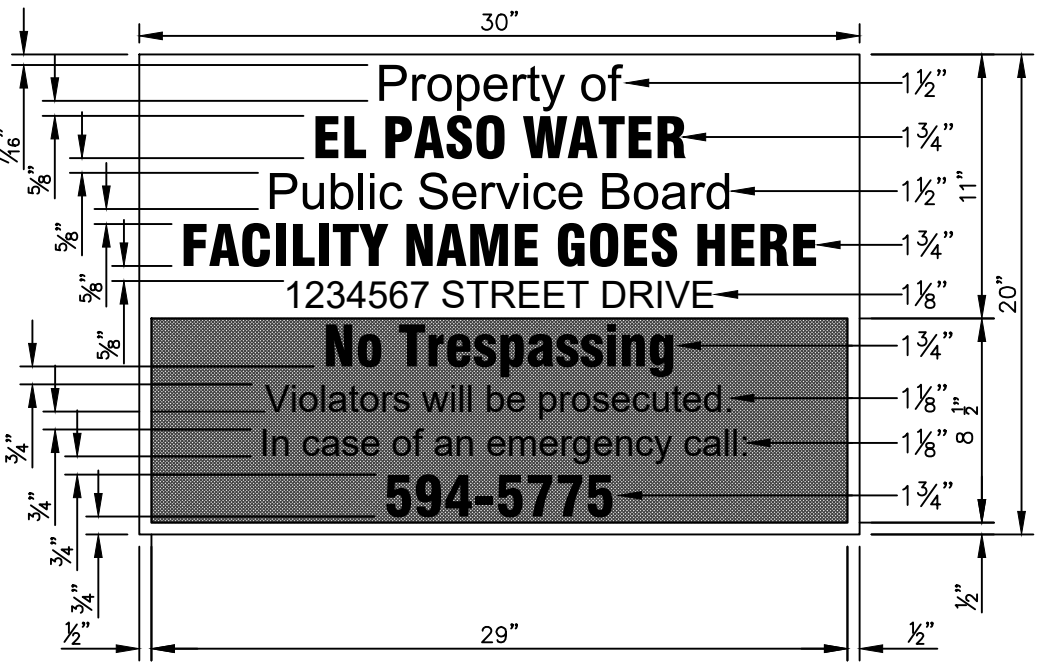


DROP INLET GENERAL NOTES:

- WELDED STEEL OR CAST GRATES AS DETAILED ARE ALL ACCEPTABLE GRATES. MIXING OF ALTERNATE TYPES OF GRATES ON THE SAME PROJECT WILL BE PERMITTED WITH THE APPROVAL OF THE CITY ENGINEER.
- ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARD SPECIFICATIONS.
- SHARP EDGES RESULTING FROM FABRICATION SHALL BE DULLED BY ANY ACCEPTABLE METHOD FOR SAFETY IN HANDLING.
- GRATES SHALL BE INSTALLED IN FRAME WITH FLOW ARROW POINTING DOWNSTREAM OR TOWARD THE LOW POINT IN A SUMP.
- WELDED GRATES SHALL BE STRUCTURAL STEEL CONFORMING TO THE REQUIREMENTS OF AASHTO M-183 OR OF CORROSION RESISTANT STRUCTURAL STEEL CONFORMING TO THE REQUIREMENTS OF AASHTO M-161 OR M-222 OR BE MADE OF OTHER APPROVED STEELS OF EQUAL QUALITY. MIXING GRADES OF STEEL ON THE SAME GRATE WILL NOT BE PERMITTED.
- GRATES MADE OF M-183 STEEL SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M-111 SPECIFICATIONS OR SHALL BE PAINTED WITH INORGANIC ZINC PAINTS, MEETING THE REQUIREMENTS OF CURRENT STANDARD SPECIFICATIONS.
- ALL WELDS SHALL HAVE A MINIMUM OF 1/4" FILLET AND SHALL CONFORM TO THE SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND TO THE AWS STRUCTURAL WELDING CODE. ELECTRODES SHALL BE COMPATIBLE TO THE DIFFERENT GRADES OF STEEL THAT COMPRISE THE GRATE MEMBERS.
- CAST GRATES SHALL BE CAST STEEL CONFORMING TO THE REQUIREMENTS OF AASHTO M-103, GRADE 65-35 OR OF DUCTILE IRON CONFORMING TO THE REQUIREMENTS OF ASTM A-536, SPECIAL GRADE 60-45, OR OF GRAY IRON CONFORMING TO THE REQUIREMENTS OF AASHTO M-105, CLASS 35B OR ASTM A-48 CLASS 35B. THE SPECIFICATIONS OF GENERAL APPLICATION FOR CAST STEEL GRATES SHALL BE AASHTO M-103 SCOPE 1.2.1, GRADE M-1.
- FERROUS CASTINGS SHALL BE OF UNIFORM QUALITY, FREE OF BLOWHOLES, POROSITY, HARD SPOTS, SHRINKAGE DISTORTION OR OTHER DEFECTS. THEY SHALL BE SMOOTH AND WELL CLEANED BY SHOT BLASTING OR OTHER APPROVED CLEANING METHOD. AFTER CLEANING THEY SHALL BE COATED WITH ASPHALT BASE PAINT RESULTING IN A SMOOTH COATING, TOUGH AND TENACIOUS WHEN COLD, NOT TACKY OR BRITTLE.
- ALL CASTING SHALL BE MANUFACTURED TRUE TO PATTERN. COMPONENT PARTS SHALL FIT TOGETHER IN A SATISFACTORY MANNER.
- ALL CONCRETE TO BE 3000 P.S.I. CHAMFER ALL EXPOSED EDGES 3/4". ALL DIMENSIONS RELATING TO REINFORCING STEEL ARE TO CENTER OF BARS.
- MINIMUM CONCRETE COVER SHALL BE 1 1/2" FOR STEEL REINFORCING.
- EXPANSION MATERIAL TO BE 1/2" BITUMINOUS FIBER AND PLACED WHERE PROPOSED CONCRETE COMES IN CONTACT WITH ANY EXISTING OR PROPOSED CONCRETE OR MASONRY STRUCTURE.
- STRUCTURAL STEEL SHALL BE SHOP PAINTED IN ACCORDANCE WITH SDOT. ITEM 446 "PAINT AND PAINTING"
- SURFACE OF ALL EXPOSED CONCRETE SHALL CONFORM IN GRADE TO EXISTING OR PROPOSED CURB AND WALK ADJACENT TO INLETS.
- GRATES WILL BE DECREASED 1" BELOW PROPOSED OR EXISTING GRADE.
- ALL REINFORCING BARS TO BE #4 BARS AT 6" O.C. GRADE 60. BEND BARS AROUND PIPE OPENINGS.
- INLETS TO BE DESIGNATED IN PLANS BY NUMBER OF GRATES REQUIRED.
- SURFACE OF ALL EXPOSED CONCRETE SHALL CONFORM IN GRADE TO EXISTING OR PROPOSED CURB AND WALK ADJACENT TO INLETS.
- GRATES OF ALL INLETS WITHIN THE STREET PAVEMENT MUST BE CONSTRUCTED WITH THE GRATE BARS PERPENDICULAR TO THE CURB.



- NOTE:**
- CONSULT WITH PAINT MANUFACTURER FOR PRODUCTS THAT CAN SUSTAIN LONG PERIODS OF MOISTURE.
 - GAUGE REQUIRED IN PONDS OF GREATER THAN FIVE (5') FOOT DEPTH ONLY.
 - XX = MAXIMUM HIGH WATER ELEVATION BASED ON A 100-YR STORM EVENT ROUNDED TO NEAREST WHOLE NUMBER.
 - ALTERNATES WILL BE ALLOWED WITH THE PRIOR REVIEW AND APPROVAL OF THE CITY ENGINEER



- GENERAL NOTES:**
- SIGN MATERIAL TO BE 16 GAUGE GALVANIZED SHEET METAL.
 - TOP PART OF SIGN SHALL SHOW BLACK LETTERS ON A WHITE BACKGROUND.
 - BOTTOM PART OF SIGN SHALL SHOW WHITE LETTERS ON A BLACK BACKGROUND.

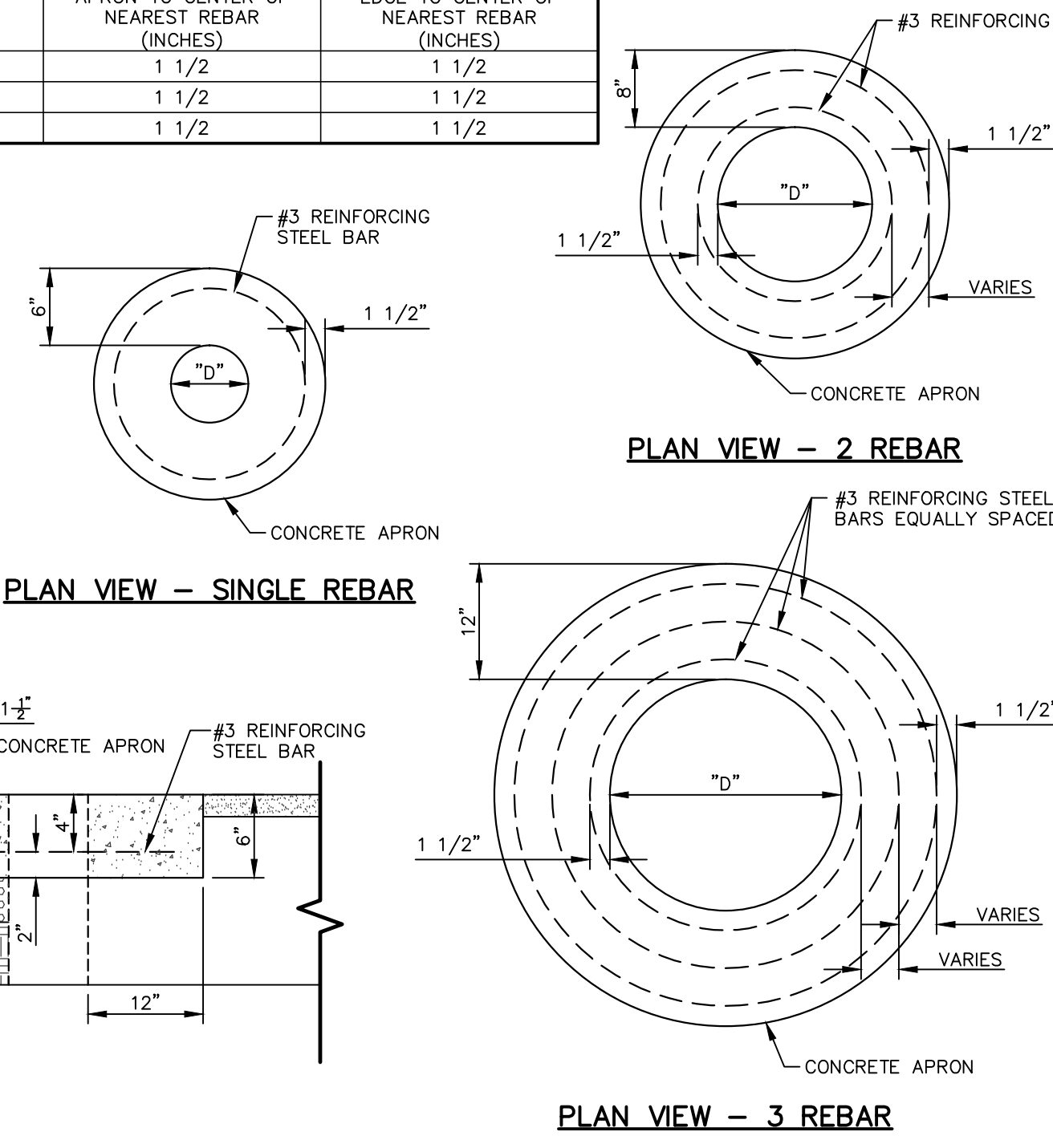
CONCRETE APRON FOR CIRCULAR PENETRATIONS IN ASPHALT PAVEMENTS				
"D" DIAMETER OF PENETRATION (INCHES)	"A" CONCRETE HORIZONTAL DIMENSION FROM PENETRATION (INCHES)	NUMBER OF NO. 3 REINFORCING STEEL BARS (QUANTITY)	"B" MINIMUM CLEARANCE FROM EDGE OF CONCRETE APRON TO CENTER OF NEAREST REBAR (INCHES)	"C" MINIMUM CLEARANCE FROM PENETRATION EDGE TO CENTER OF NEAREST REBAR (INCHES)
0 TO 6.01	6	1	1 1/2"	1 1/2"
6.01 TO 18.01	8	2	1 1/2"	1 1/2"
18.01 AND OVER	12	3	1 1/2"	1 1/2"

CONSTRUCTION NOTES:

- ANY DISTURBED SUBGRADE UNDER THE CONCRETE APRON SHALL BE COMPACTED TO 95% DENSITY ±3% OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D-1557.
- ANY DISTURBED COARSE UNDER THE CONCRETE APRON SHALL BE COMPACTED TO 100% DENSITY ±2% OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D-1557.
- PROVIDE A MINIMUM OF 1 1/2" OF CONCRETE COVER FOR ALL REINFORCEMENT STEEL.
- REINFORCING SHALL MEET ASTM C-478 AND TRAFFIC LOADING (HS-20).
- NO. 3 REINFORCING STEEL HOOPS SHALL BE SPACED EQUALLY.

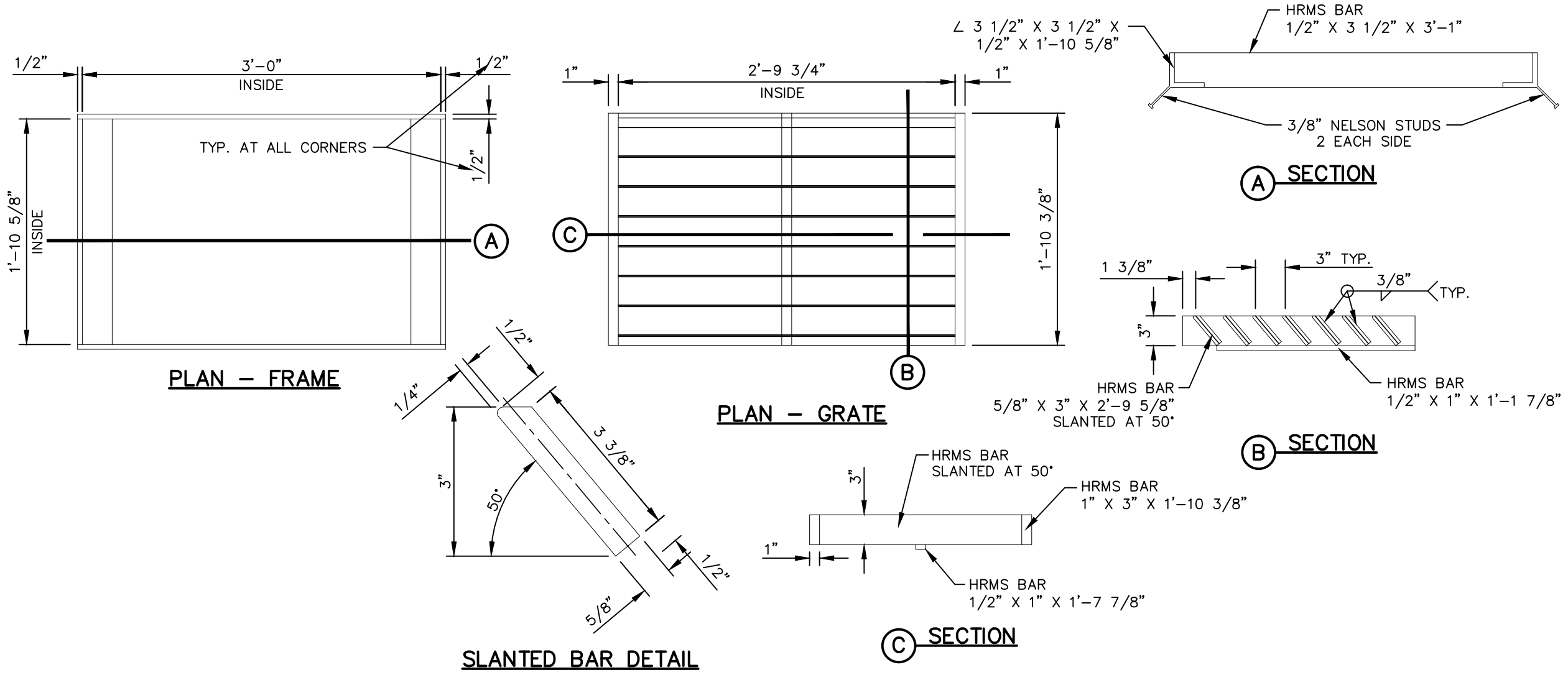
GENERAL NOTES:

- THE PENETRATION APRON SHOULD BE CAST IN-PLACE CONCRETE. (MINIMUM 28 DAY COMPRESSIVE STRENGTH 4000 PSI. HIGH EARLY CONCRETE IS REQUIRED).
- TOPS OF PENETRATION APRON SHALL BE FLUSH WITH ROADWAY SURFACE OR FINISHED GRADE UNLESS OTHERWISE SPECIFIED BY THE CITY ENGINEER.



4 PENETRATION APRON DETAILS
SCALE: N.T.S.

3 NO TRESPASSING WARNING SIGN
SCALE: N.T.S.



5 GRATE AND FRAME DETAILS
SCALE: 1" = 1'-0"



Oscar Villalobos
BY _____ DATE 07/01/2020

REFERENCES - BENCHMARKS
CITY MONUMENT LOCATED AT THE CENTERLINE INTERSECTION OF CLYDEDALE DRIVE AND PALOMINO STREET, EL PASO, TEXAS. THE NORTH AMERICAN VERTICAL DATUM IS ELEVATION = 3939.32 (NAVD 86).

ENGINEER'S SEAL
Professional Engineer Seal for Jorge L. Azorin, License No. 8075, State of Texas.

SCALE: AS SHOWN
Horizontal: N/A
Vertical: N/A
Contour Interval: N/A
DATE: JUNE 2020
DESIGN BY: R.O.
DRAWN BY: F.Z.
CHKD. BY: J.L.A.
APPVD. BY: J.L.A.
JOB No. 2000-223

PROJECT TITLE
HIDDEN VILLAGE
UNIT TWO
SUBDIVISION IMPROVEMENTS

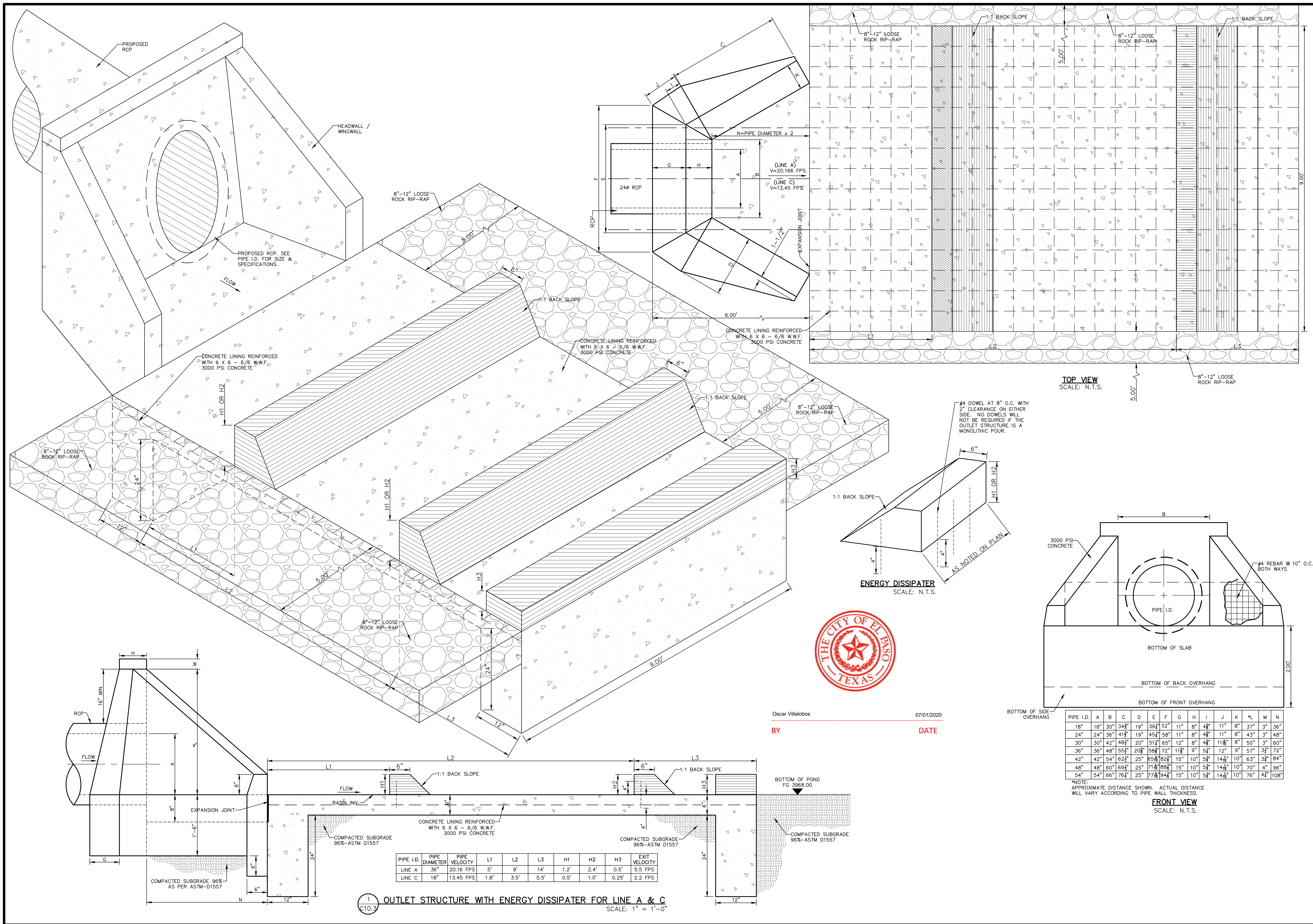
SHEET TITLE
DRAINAGE DETAILS
(SHEET 1 OF 4)
SHEET NO.

REVISIONS

DATE	REVISIONS	BY

813 N. Kansas St. Suite 300 El Paso, TX 79902 915.544.5232 www.ceagroup.net TEXAS REGISTERED ENGINEERING FIRM F-4564

C10.1



PIPE I.D.	PIPE DIAMETER	PIPE VELOCITY	L1	L2	L3	H1	H2	H3	EXIT VELOCITY
LINE A	36"	20.16 FPS	5'	9'	14'	1.2'	2.4'	0.5'	5.5 FPS
LINE C	18"	13.45 FPS	1.8'	3.5'	5.5'	0.5'	1.0'	0.25'	2.2 FPS

1 OUTLET STRUCTURE WITH ENERGY DISSIPATER FOR LINE A & C
SCALE: 1" = 1'-0"



Oscar Villalobos
BY DATE 07/01/2020

TOP VIEW
SCALE: N.T.S.

ENERGY DISSIPATER
SCALE: N.T.S.

*NOTE: APPROXIMATE DISTANCE SHOWN. ACTUAL DISTANCE WILL VARY ACCORDING TO PIPE WALL THICKNESS.

PIPE I.D.	A	B	C	D	E	F	G	H	I	J	K	*L	M	N
18"	18"	30"	34 1/2"	19"	39 1/2"	52"	11"	8"	48"	11"	8"	37"	3"	36"
24"	24"	36"	41 1/2"	19"	45 1/2"	58"	11"	8"	48"	11"	8"	43"	3"	48"
30"	30"	42"	48 1/2"	20"	51 1/2"	65"	12"	8"	48"	11 1/2"	8"	50"	3"	60"
36"	36"	48"	55 1/2"	20 1/2"	58 1/2"	72"	11 1/2"	9"	51"	12"	9"	57"	3 1/2"	72"
42"	42"	54"	62 1/2"	25"	65 1/2"	82"	15"	10"	51"	14 1/2"	10"	63"	3 1/2"	84"
48"	48"	60"	69 1/2"	25"	71 1/2"	88"	15"	10"	51"	14 1/2"	10"	70"	4"	96"
54"	54"	66"	76 1/2"	25"	77 1/2"	94"	15"	10"	51"	14 1/2"	10"	76"	4 1/2"	108"

FRONT VIEW
SCALE: N.T.S.

REFERENCES - BENCHMARKS
CITY MONUMENT LOCATED AT THE CENTERLINE INTERSECTION OF CLYDESDALE DRIVE AND PALOMINO STREET, THE NORTH AMERICAN VERTICAL DATUM IS ELEVATION = 3939.32 (NAD 86).

813 N. Kansas St.
Suite 300
El Paso, TX 79902
915.544.5232
www.ceagroup.net
TEXAS REGISTERED ENGINEERING FIRM F-4564

ENGINEER'S SEAL
JOSUE L. AZARATE
8075

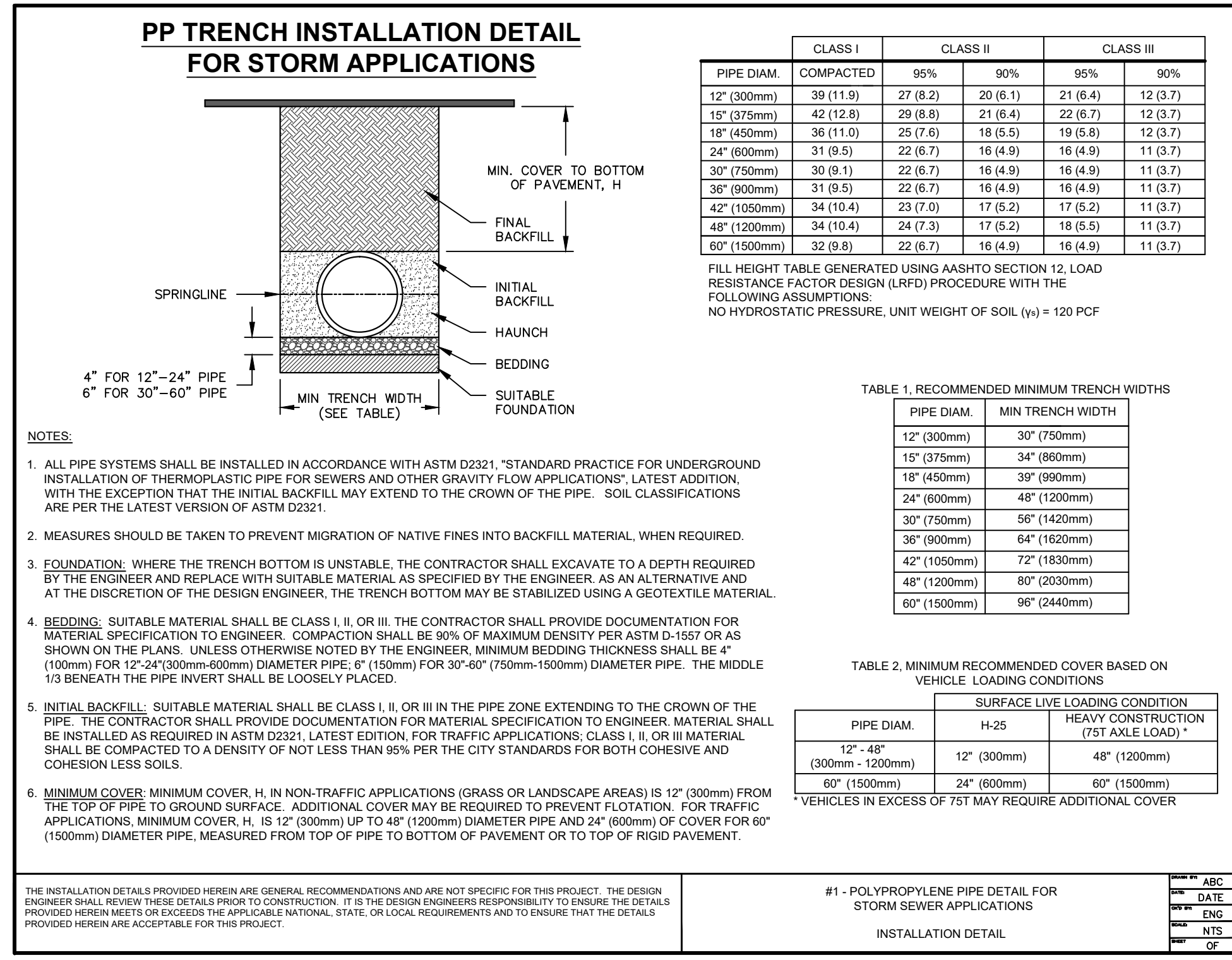
SCALE: AS SHOWN
Horizontal: 1" = 10'
Vertical: 1" = 4'
Contour Interval: 1' / 4'

DATE: JUNE 2020
DESIGN BY: R.O.
DRAWN BY: E.Z.
CHKD. BY: F.Z.
APPVD. BY: J.L.A.
JOB No.: 2000-223

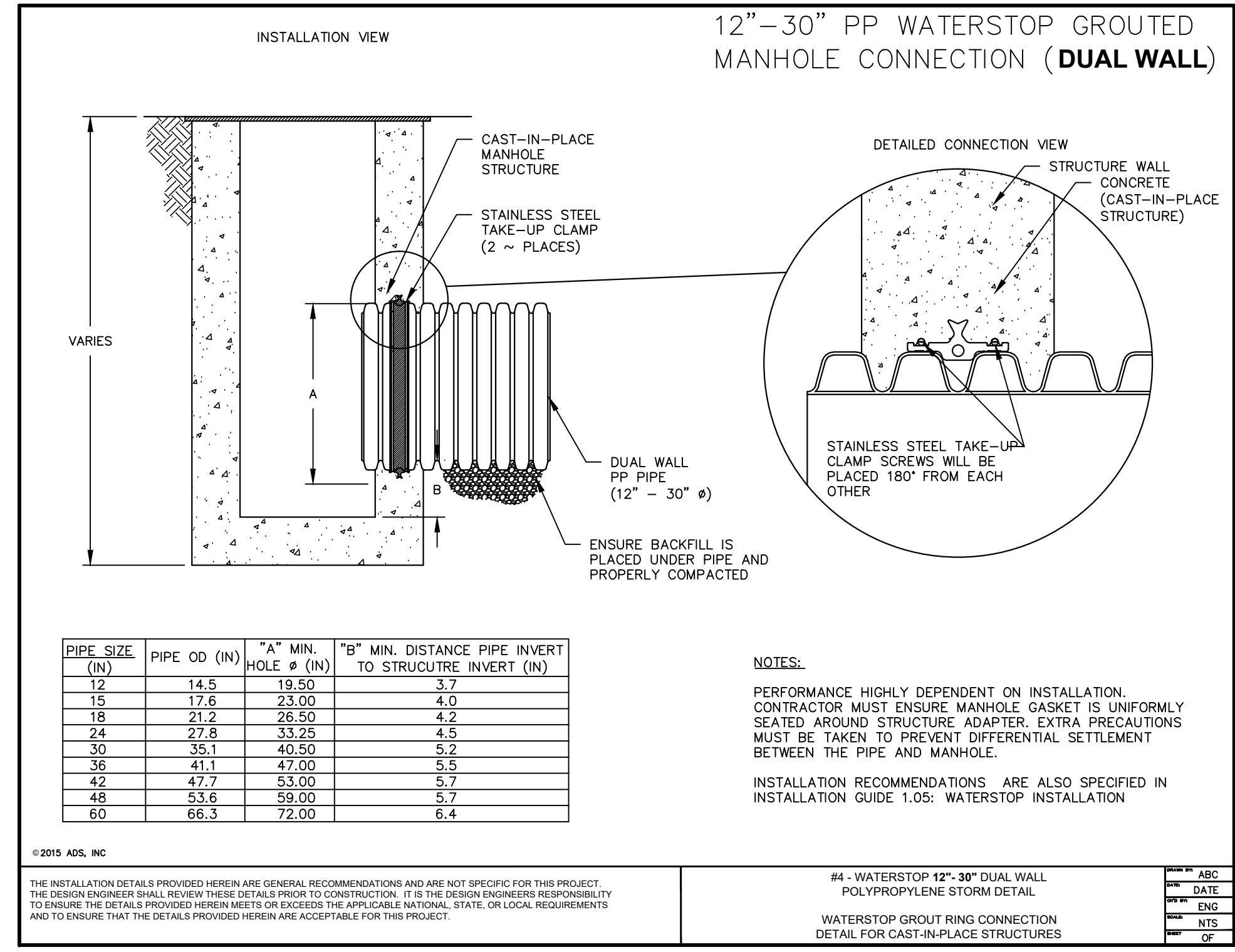
PROJECT TITLE
HIDDEN VILLAGE
UNIT TWO
SUBDIVISION IMPROVEMENTS

SHEET TITLE
DRAINAGE
DETAILS
(SHEET 3 OF 4)
SHEET NO.

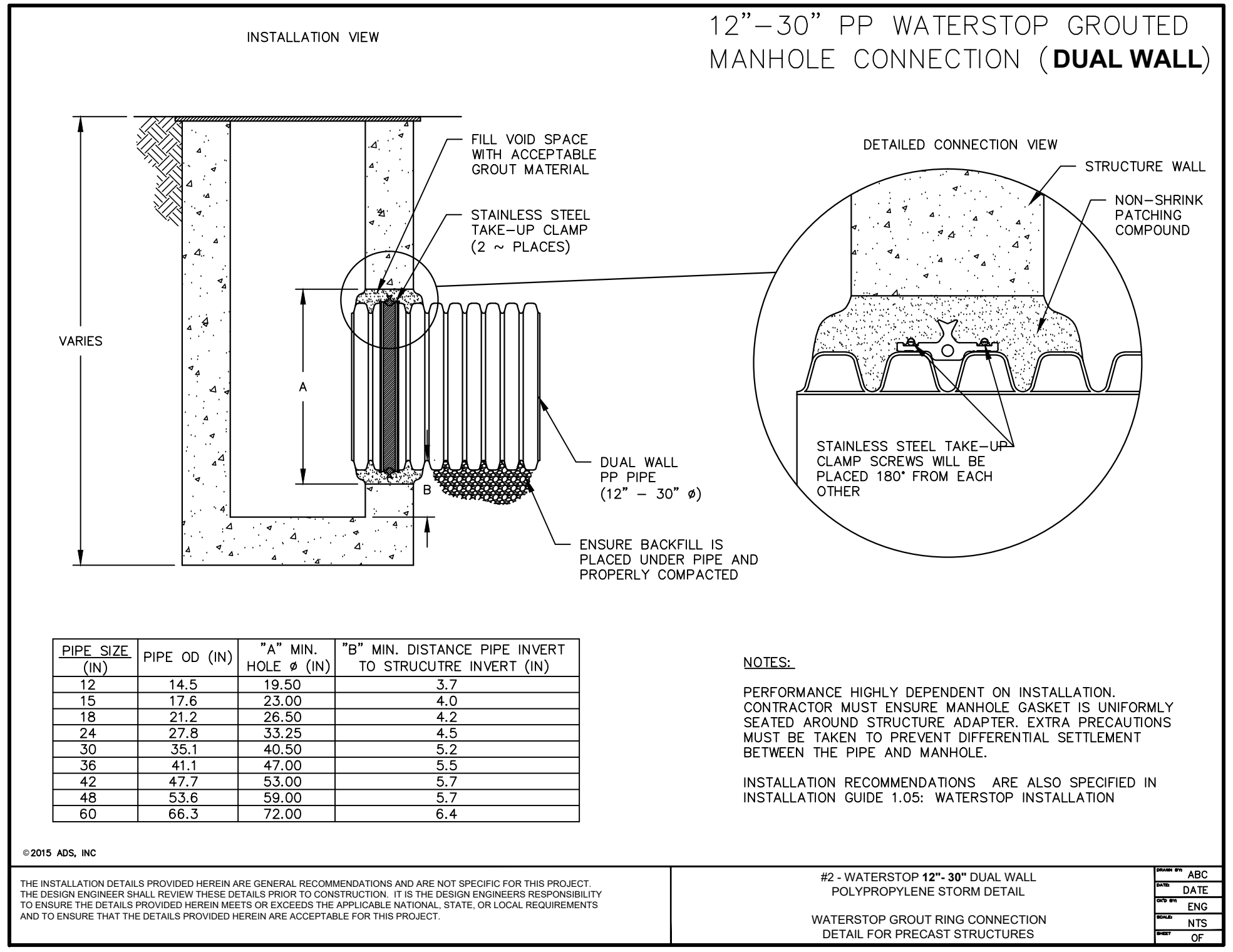
C10.3



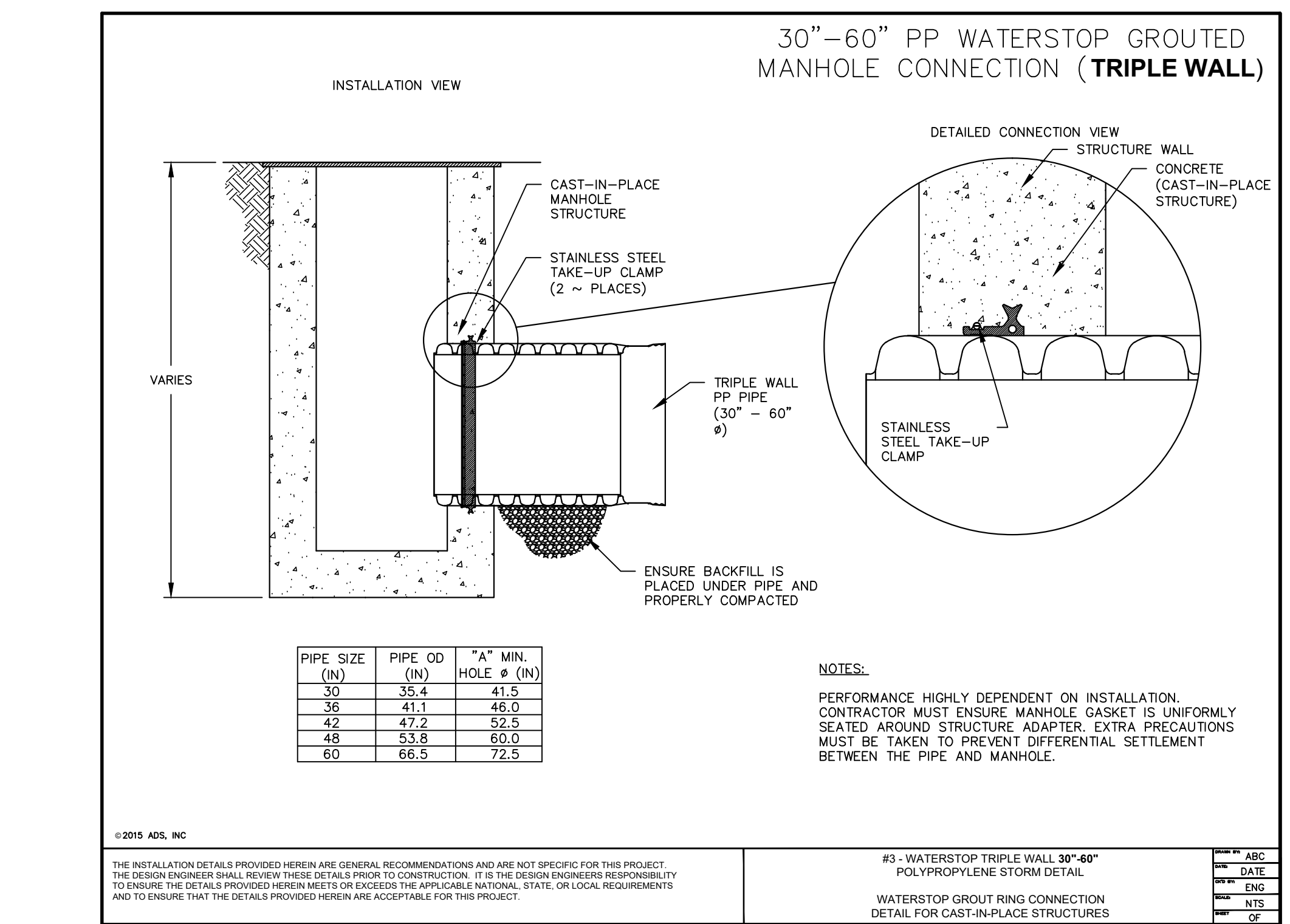
1
C10.4 #1-POLYPROPYLENE PIPE DETAIL FOR STORM SEWER APPLICATIONS (INSTALLATION DETAIL) SCALE: N.T.S.



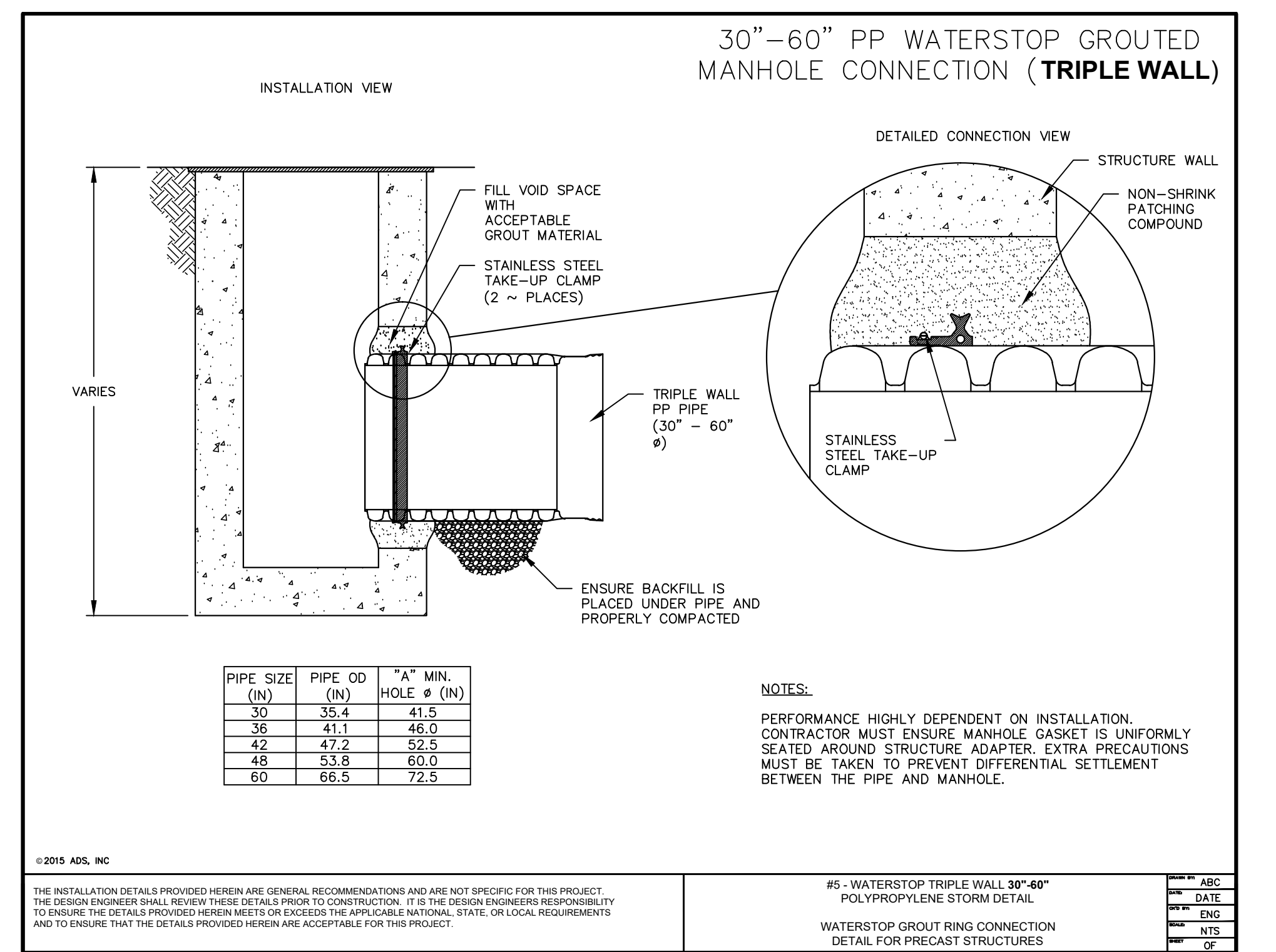
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C10.4 #4-WATERSTOP 12"-30" DUAL WALL POLYPROPYLENE STORM DETAIL (WATERSTOP GROUDED RING CONNECTION DETAIL FOR CAST-IN-PLACE STRUCTURES) SCALE: N.T.S.



3
C10.4 #2-WATERSTOP 12"-30" DUAL WALL POLYPROPYLENE STORM DETAIL (WATERSTOP GROUDED RING CONNECTION DETAIL FOR PRECAST STRUCTURES) SCALE: N.T.S.



4
C10.4 #3-WATERSTOP TRIPLE WALL 30"-60" POLYPROPYLENE STORM DETAIL (WATERSTOP GROUDED RING CONNECTION DETAIL FOR CAST-IN-PLACE STRUCTURES) SCALE: N.T.S.



5
C10.4 #5-WATERSTOP TRIPLE WALL 30"-60" POLYPROPYLENE STORM DETAIL (WATERSTOP GROUDED RING CONNECTION DETAIL FOR PRECAST STRUCTURES) SCALE: N.T.S.



Oscar Villalobos 07/01/2020
BY DATE

REFERENCES - BENCHMARKS
CITY MONUMENT LOCATED AT THE CENTERLINE INTERSECTION OF CLOYESDALE DRIVE AND PALOMINO STREET, ELEVATION = 3939.32 (NAD 83).

813 N. Kansas St.
Suite 300
El Paso, TX 79902
915.544.5232
www.ceagroup.net
TEXAS REGISTERED ENGINEERING FIRM F-4564

ENGINEER'S SEAL
Jorge L. Azcarate
Professional Engineer
No. 80075
State of Texas

SCALE: AS SHOWN
Horizontal: N/A
Vertical: N/A
Contour Interval: N/A
DATE: JUNE 2020
DESIGN BY: R.O.
DRAWN BY: F.Z.
CHKD. BY: J.L.A.
APPVD. BY: J.L.A.
JOB No.: 2000-223

PROJECT TITLE
HIDDEN VILLAGE
UNIT TWO
SUBDIVISION IMPROVEMENTS

SHEET TITLE
DRAINAGE
DETAILS

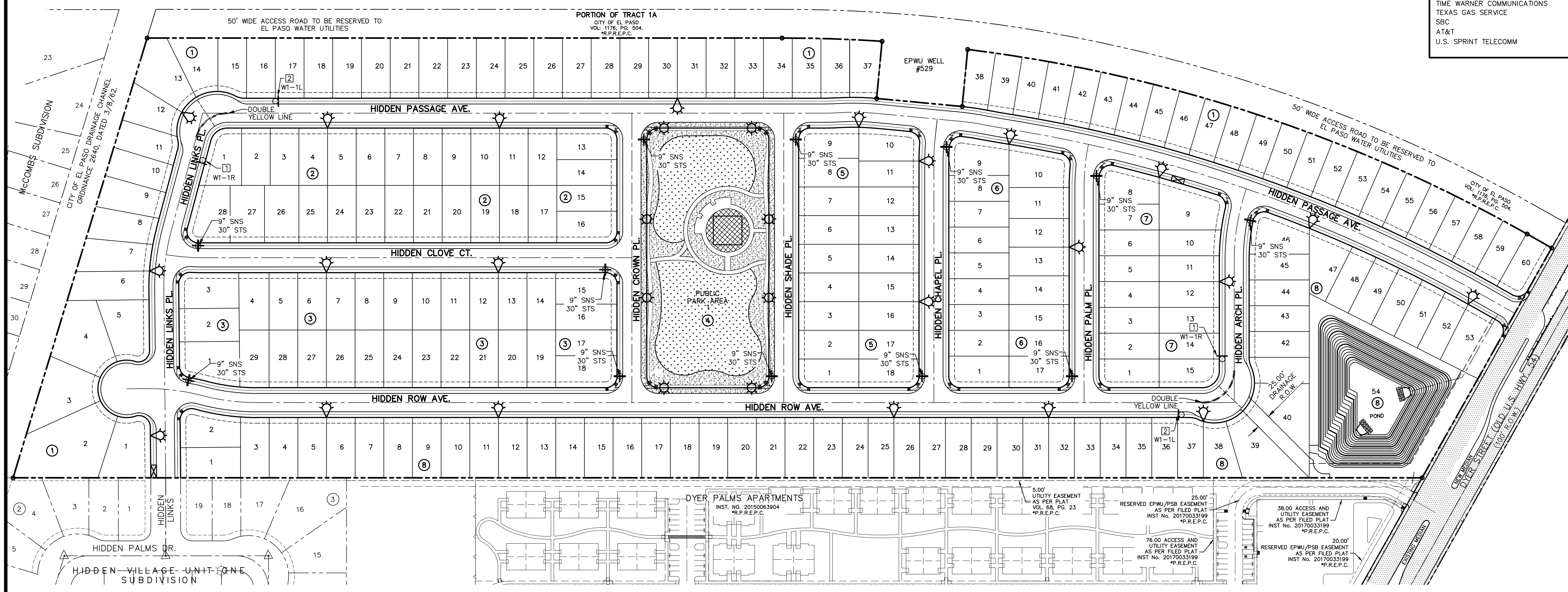
(SHEET 4 OF 4)
SHEET NO.

C10.4

SECTION 31, BLOCK 80, TOWNSHIP 1,
TEXAS AND PACIFIC RAILROAD COMPANY SURVEYS.
EL PASO COUNTY, TEXAS.
200' WIDE CITY OF EL PASO DRAINAGE CHANNEL #1, PARCEL A (ORDINANCE # 2040)
(AS SHOWN ON THE EL PASO COUNTY PLAT OF
SECTION 31, BLOCK 80, TOWNSHIP 1, T&P RR CO. SURVEYS)
NO RECORDS PROVIDED

UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5500
MCI SURVEILLANCE	(800) MCI-WORK
TIME WARNER COMMUNICATIONS	(915) 772-1123
TEXAS GAS SERVICE	(915) 680-7200
SBC	(800) 945-6005
AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579

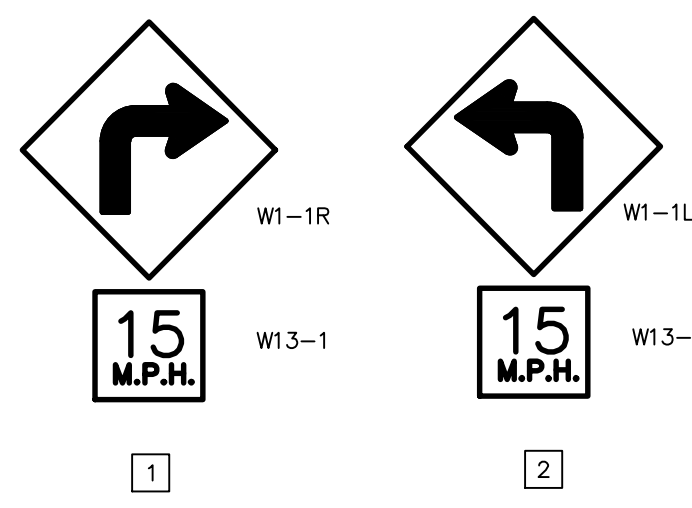
WARNING!
BEFORE YOU DIG
CALL 811
FOR FIELD LOCATING EXISTING UTILITIES



- LEGEND:**
- ⬇ PROPOSED RESIDENTIAL STREET LIGHT (WOOD)
 - ⬇ PROPOSED RESIDENTIAL STREET LIGHT (STEEL)
 - ⬆ PROPOSED 9" STREET NAME SIGN (TWO SIGNS) AND 30" STOP SIGN
 - ⬆ PROPOSED TRAFFIC SIGN
 - ⊠ PROPOSED N.D.C.B.U. MAIL BOX
 - ⊙ EXISTING RESIDENTIAL STREET LIGHT

- NOTES**
- TRAFFIC STREET SIGNS MUST BE OF HIGH INTENSITY REFLECTIVE SHEETING.
 - TEXT SIZES, FONTS, COLORS, ETC. MUST BE AS PER MUTCD STANDARDS & REQUIREMENTS
 - SIGNS & STRIPING SHOULD COMPLY WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
 - ANY STRIPING, SIGNS, ETC. WITHIN TxDOT ROW SHALL COMPLY W/TxDOT STANDARDS & REQUIREMENTS
 - POSTS MUST BE BREAK-AWAY TYPE AS SHOWN ON THIS SHEET

31 STREET LIGHTS



NOTE:
SIGNS SHOULD COMPLY WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

SIGNS DETAIL
SCALE: N.T.S.

ILLUMINATION, SIGNAGE AND STRIPING PLAN

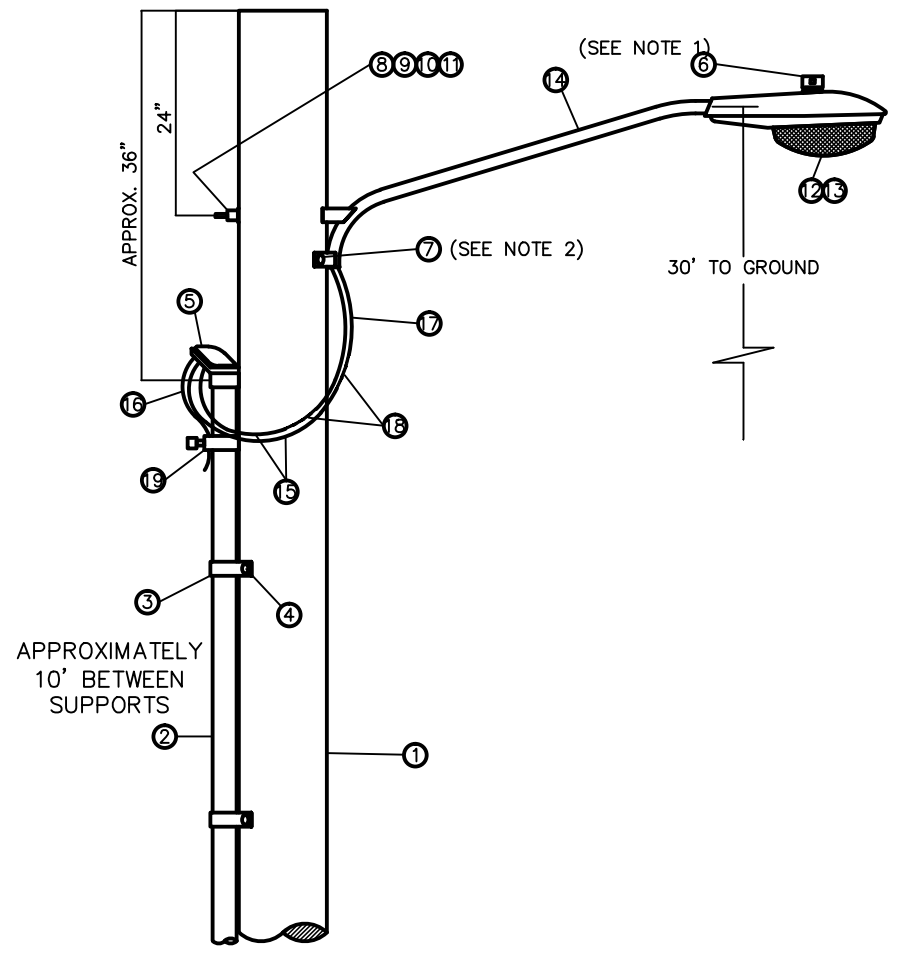
SCALE: 1" = 100'



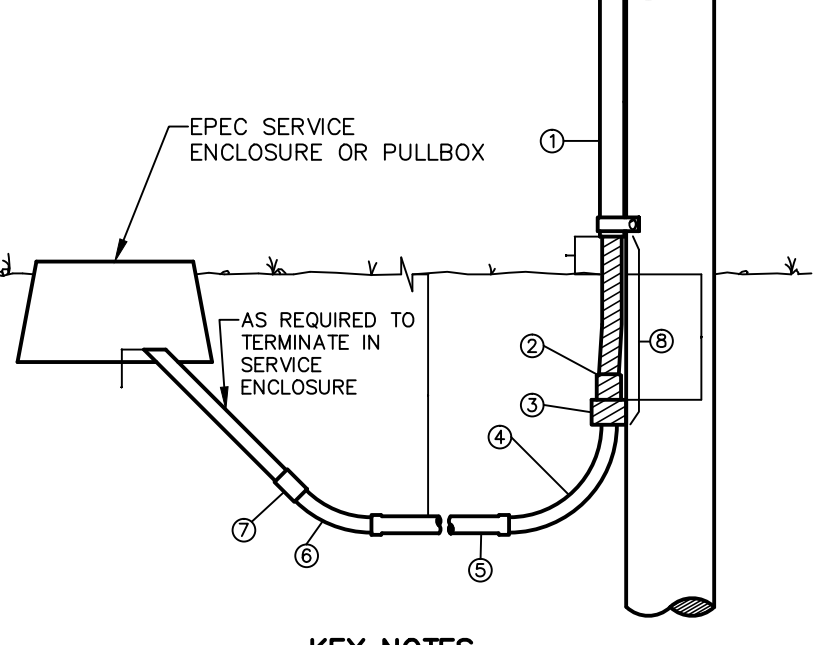
Oscar Villalobos 07/01/2020
BY DATE

ITEM No.	DESCRIPTION	STOCK No.	QTY.
1	POLE, 35 FT.-CLASS IV	009-035	1
2	GALVANIZED RIGID 1/2" CONDUIT	017-292	3
3	PIPE STRAP FOR 1/2" CONDUIT, 2-HOLE	017-334	7
4	LAG BOLT, 1/4" x 2"	002-330	6
5	WEATHERHEAD, 1/2" CONDUIT	017-293	1
6	PHOTOCELL, 240V-SEE NOTE 1	021-225	1
7	LAG BOLT, 1/2" x 4"	002-370	2
8	MACHINE BOLT, 5/8" x 8"	002-450	1
9	SQUARE GALV. WASHER, 2-1/4" x 2" - 1/4"	002-760	1
10	COIL-SPRING WASHER, 5/8"	002-786	1
11	LOCKNUT, 5/8"	002-705	1
12	LUMINAIRE, 100W H. P. S.	021-335	1
13	HPS LAMP, 100W	021-085	1
14	MAST ARM, 6" x 1-1/4"	021-200	1
15	COPPER CABLE, #12, 19 STRAND, 600 V	013-665	1
16	COPPER CABLE, #12, SOLID, 600 V, GREEN	013-701	1
17	CABLE #10, 2 CONDUCTOR, 600 V, UF	013-600	8
18	SLEEVES, #12-10	005-140	2
19	GROUNDING CLAMP	021-215	1

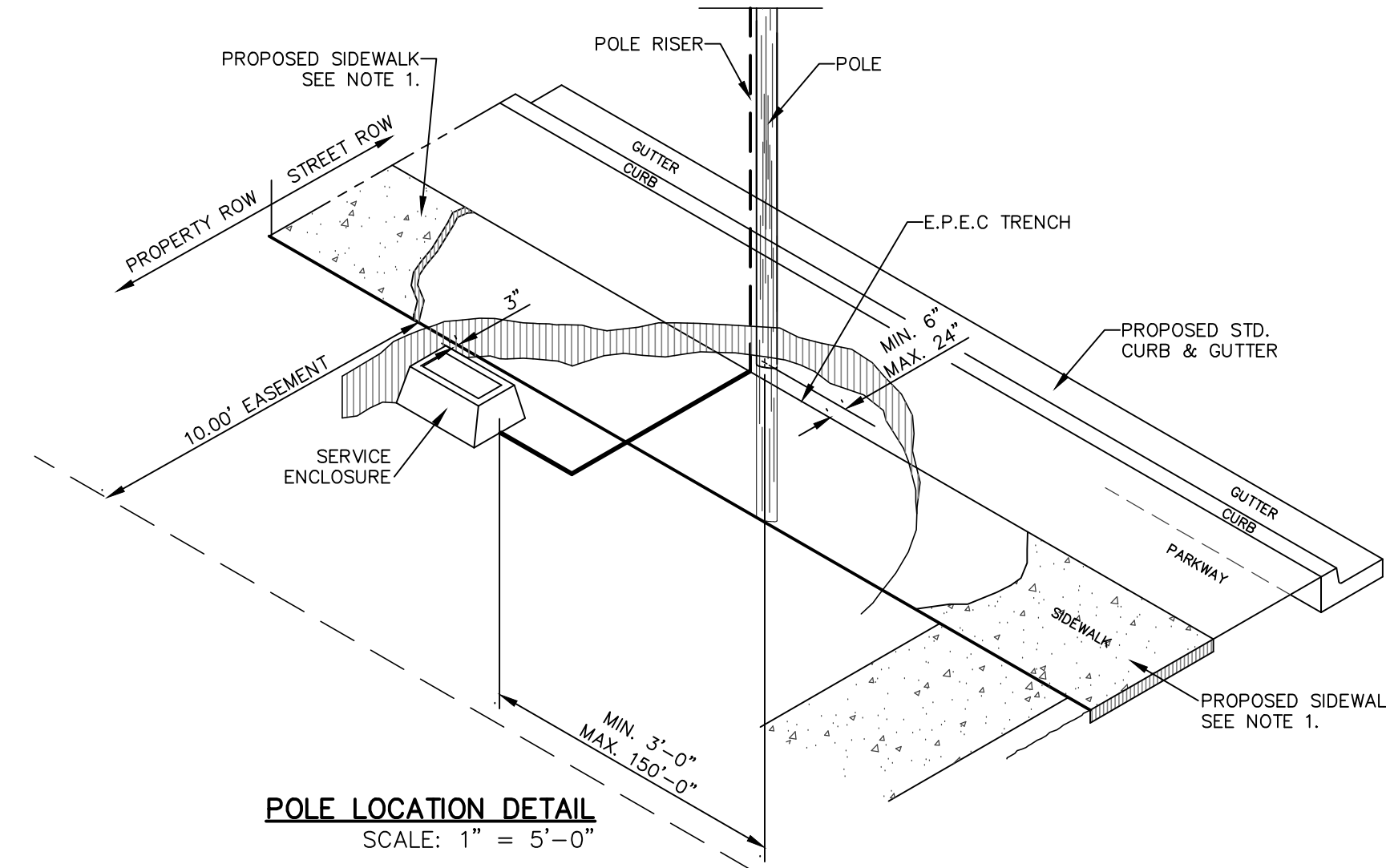
- KEY NOTES**
- MOUNT SO THAT CONTROL FACES NORTH
 - ITEM 17 SHALL NOT BE SPLICED INSIDE ITEM 14
- DESIGN NOTES**
- INSTALLATION SHALL COMPLY WITH ALL LOCAL CODE REQUIREMENTS.
 - FOR ANY CLARIFICATION, EXCEPTIONS, OR QUESTIONS REGARDING CODE INTERPRETATION, CALL THE EL PASO ELECTRIC CO. DISTRIBUTION DEVELOPMENT DEPARTMENT.



RESIDENTIAL STREET LIGHT WOOD POLE
SCALE: N.T.S.



RESIDENTIAL STREET LIGHT WOOD POLE
SCALE: N.T.S.



POLE LOCATION DETAIL
SCALE: 1" = 5'-0"

REFERENCES - BENCHMARKS

CITY MONUMENT LOCATED AT THE CENTERLINE INTERSECTION OF CLYDEDALE DRIVE AND PALMOLINO STREET, THE NORTH AMERICAN VERTICAL DATUM IS ELEVATION = 3939.32 (NAD 86).

813 N. Kansas St.
Suite 300
El Paso, TX 79902
915.544.5232
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CEA GROUP
TEXAS REGISTERED ENGINEERING FIRM F-4564

ENGINEER'S SEAL

SCALE: 1" = 100'

Horizontal: N/A
Vertical: N/A
Contour Interval: N/A

DATE: JUNE 2020
DESIGN BY: R.O.
DRAWN BY: F.Z.
CHKD. BY: J.L.A.
APPVD. BY: J.L.A.
JOB No. : 2000-223

PROJECT TITLE

HIDDEN VILLAGE UNIT TWO SUBDIVISION IMPROVEMENTS

SHEET TITLE

ILLUMINATION, SIGNAGE AND STRIPING PLAN

(SHEET 1 OF 2)

SHEET No.

C11.1

UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5500
MCI SURVEILLANCE	(800) MCI-WORK
TIME WARNER COMMUNICATIONS	(915) 772-1123
TEXAS GAS SERVICE	(915) 680-7200
SBC	(800) 945-6005
AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579

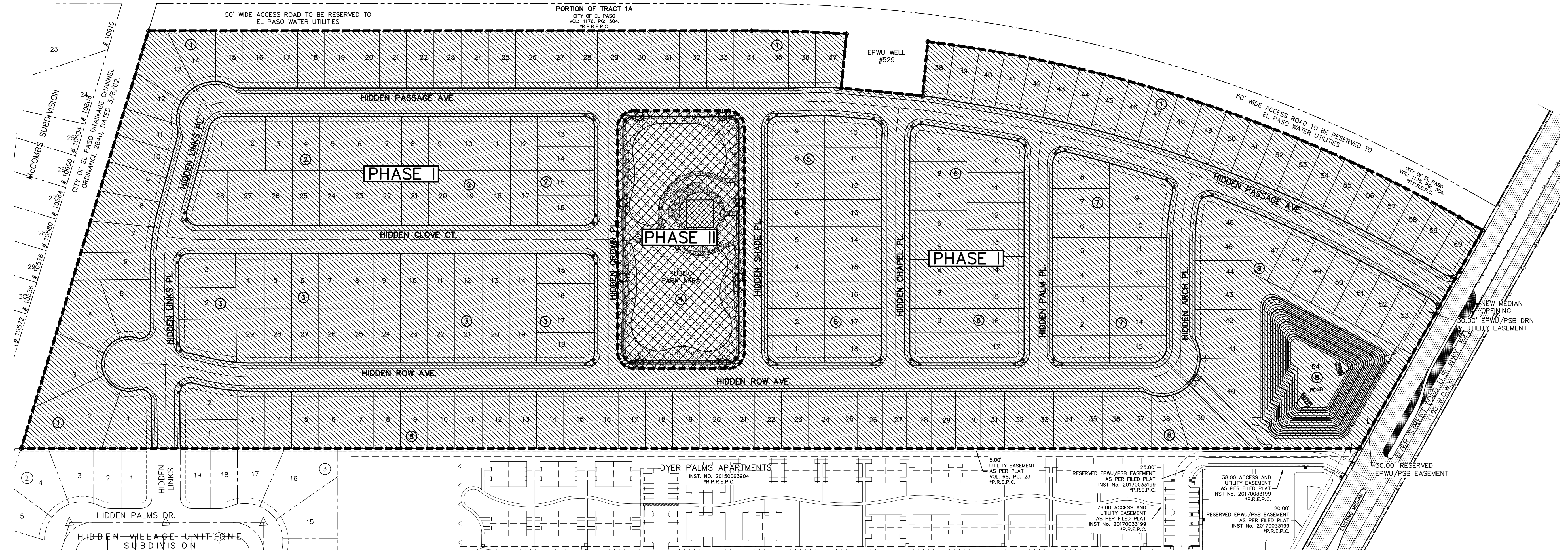
WARNING!
BEFORE YOU DIG
CALL 811
FOR FIELD LOCATING EXISTING UTILITIES

LEGEND

PHASE I	
PHASE II	

PHASE I	AREA (ACRES)	RESIDENTIAL LOTS
PHASE I	37.637	220
PHASE II	2.510	0

SECTION 31, BLOCK 80, TOWNSHIP 1,
TEXAS AND PACIFIC RAILROAD COMPANY SURVEYS.
EL PASO COUNTY, TEXAS.
200' WIDE CITY OF EL PASO DRAINAGE CHANNEL #1, PARCEL A (ORDINANCE # 2040)
(AS SHOWN ON THE EL PASO COUNTY PLAT OF
SECTION 31, BLOCK 80, TOWNSHIP 1, T&P RR CO. SURVEYS)
NO RECORDS PROVIDED



CONSTRUCTION PHASING PLAN
SCALE: 1" = 100'



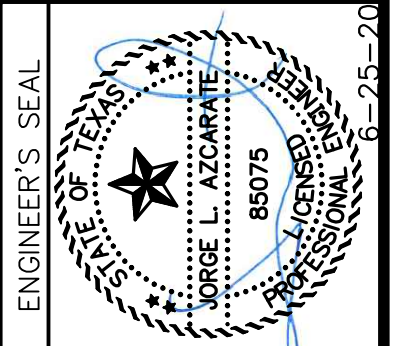
Oscar Villalobos 07/01/2020
BY DATE

REFERENCES - BENCHMARKS

CITY MONUMENT LOCATED AT THE CENTERLINE INTERSECTION OF CLOVESDALE DRIVE AND PALOMINO STREET, THE NORTH AMERICAN VERTICAL DATUM IS ELEVATION = 3939.32 (NAD 86).

DATE	REVISIONS	BY

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El Paso, TX 79902
915.544.5232
www.ceagroup.net
TEXAS REGISTERED ENGINEERING FIRM F-4564



SCALE: 1" = 100'
Horizontal: N/A
Vertical: N/A
Contour Interval: N/A
DATE: JUNE 2020
DESIGN BY: R.O.
DRAWN BY: F.Z.
CHKD. BY: J.L.A.
APPVD. BY: J.L.A.
JOB No.: 2000-223

PROJECT TITLE
**HIDDEN VILLAGE
UNIT TWO
SUBDIVISION IMPROVEMENTS**

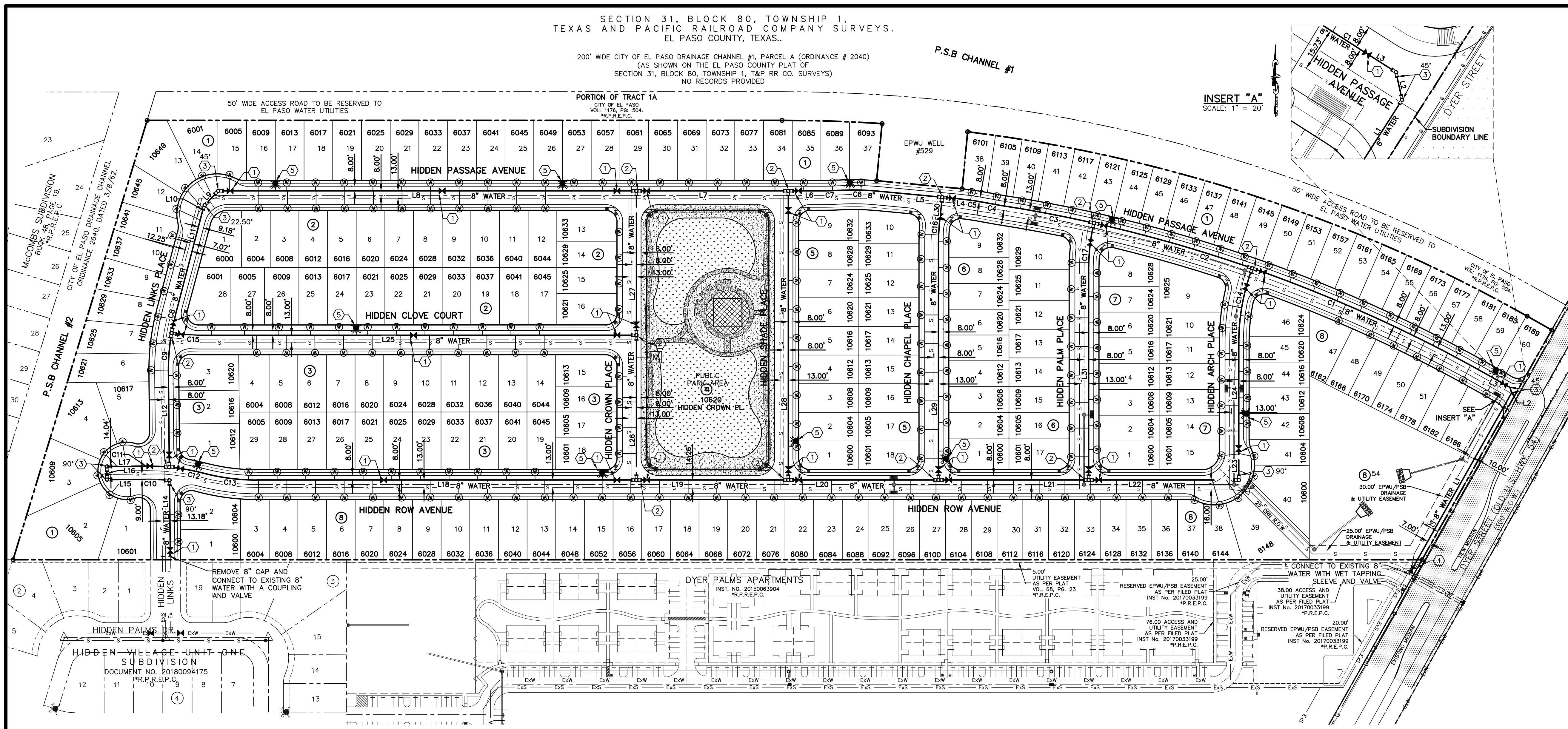
SHEET TITLE
**CONSTRUCTION
PHASING PLAN**

SHEET NO.

C11.3

SECTION 31, BLOCK 80, TOWNSHIP 1,
TEXAS AND PACIFIC RAILROAD COMPANY SURVEYS.
EL PASO COUNTY, TEXAS.

200' WIDE CITY OF EL PASO DRAINAGE CHANNEL #1, PARCEL A (ORDINANCE # 2040)
(AS SHOWN ON THE EL PASO COUNTY PLAT OF
SECTION 31, BLOCK 80, TOWNSHIP 1, T&P RR CO. SURVEYS)
NO RECORDS PROVIDED



WATER INDEX MAP
SCALE: 1" = 100'

DATE: 07/01/2020
BY: Oscar Villalobos
CONTRACTOR SHALL VERIFY DEPTH AND LOCATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION.

INDEX

SHEET NO.	DESCRIPTION
C12.1	HIDDEN VILLAGE UNIT TWO WATER MAIN PIPE LAYOUT
C12.2	WATER DETAILS
C12.3	WATER DETAILS
C12.4	WATER DETAILS
C12.5	WATER DETAILS
C12.6	WATER DETAILS

- NOTES:**
- ALL LOTS SHALL BE PROVIDED WITH ONE SERVICE CONNECTION TO BE INSTALLED AT THE LOCATION AS SHOWN ON THE SERVICE LOCATION DETAIL.
 - ALL WATER LINES SHALL BE PVC C-900, CLASS 235.
 - REFERENCE WATER DETAILS FOR TYPICAL VALVE AND WATER LOCATIONS AT STREET INTERSECTIONS.
 - REFERENCE WATER DETAILS FOR WATER LINE CROSSING STORM SEWER.

LEGEND

SYMBOL	DESCRIPTION
8" WTR.	PROPOSED 8" C-900, CLASS 235 P.V.C. PIPE
---	SUBDIVISION BOUNDARY LINE
---	PROPERTY LINE
---	STREET CENTER LINE
---	PROPOSED SEWER LINE (PLAN VIEW)
---	PROPOSED STORM SEWER
+	PROPOSED WATER CROSS CONNECTION
+	PROPOSED WATER TEE CONNECTION
+	PROPOSED WATER BEND CONNECTION
+	PROPOSED SERVICE CONNECTION (PLAN VIEW)
+	PROPOSED FIRE HYDRANT, KENNEDY OR MUELLER MODEL
+	PROPOSED 8" PLUG
+	PROPOSED GATE VALVE
+	POINT OF TANGENCY
+	REDUCER
+	PROPOSED 2" IRRIGATION METER
+	EXISTING GATE VALVE
+	EXISTING FIRE HYDRANT
+	EXISTING PLUG
---	EXISTING SEWER LINE
---	EXISTING WATER LINE

WATER KEYED NOTES

1	8" GATE VALVE
2	8" TEE
3	8" BEND
4	8" CROSS
5	FIRE HYDRANT

WATER QUANTITIES

DESCRIPTION	QUANTITY	UNIT
8" PVC WATER LINE	8568	LF
8" GATE VALVE	32	EA
FIRE HYDRANT	11	EA
3/4" SERVICE LINE	220	EA
2" YARD METER	1	EA

LINE TABLE

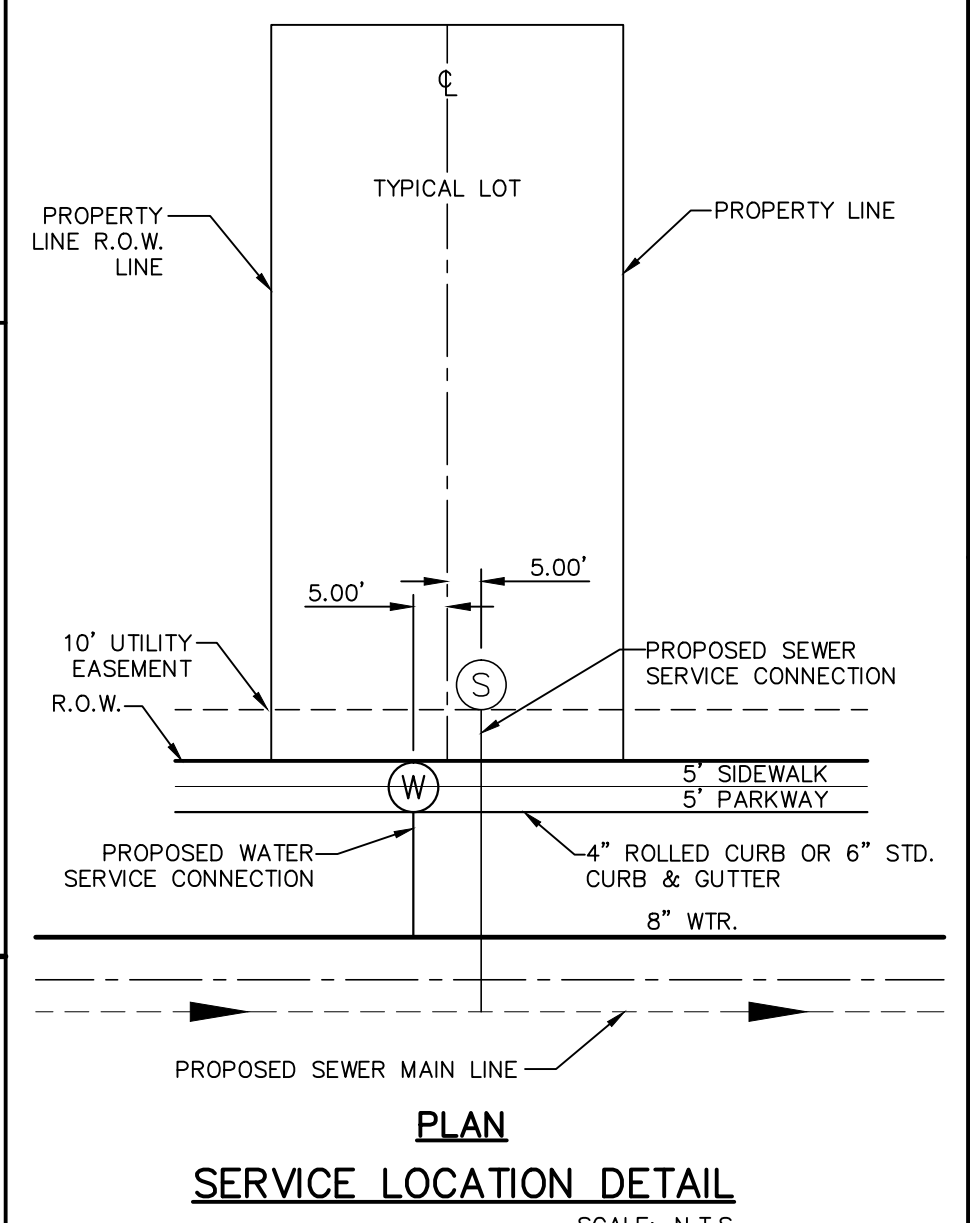
LINE	BEARING	LENGTH	LINE	BEARING	LENGTH
L1	S32°32'52"W	363.15'	L18	S86°53'08"E	662.23'
L2	S12°26'33"E	9.90'	L19	S86°53'08"E	265.00'
L3	S57°25'59"E	47.80'	L20	S86°53'08"E	262.00'
L4	S81°28'28"E	33.21'	L21	S86°53'08"E	262.00'
L5	S81°28'28"E	116.79'	L22	S86°53'08"E	262.00'
L6	S86°53'22"E	63.40'	L23	N03°06'52"E	35.16'
L7	S86°53'16"E	265.00'	L24	N03°06'52"E	205.27'
L8	S86°53'24"E	729.63'	L25	S86°53'22"E	757.18'
L9	N46°33'45"E	34.47'	L26	S03°06'52"W	252.66'
L10	N24°41'37"E	9.00'	L27	S03°06'52"W	252.00'
L11	N17°41'00"E	188.93'	L28	S03°06'52"W	504.67'
L12	N02°31'29"E	167.04'	L29	N03°06'52"E	413.12'
L14	N02°31'29"E	133.41'	L30	N09°26'11"E	40.16'
L15	N87°28'31"W	68.30'	L31	S03°06'52"W	367.03'
L16	N02°31'29"E	23.04'			
L17	S87°28'31"E	68.30'			

CURVE TABLE

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	2508.00'	448.56'	224.88'	447.96'	N62°33'26"W	010°14'50"
C2	2508.00'	287.52'	143.92'	287.36'	N70°57'55"W	006°34'06"
C3	2508.00'	168.65'	84.36'	168.62'	N76°10'33"W	003°51'11"
C4	392.00'	20.87'	10.44'	20.87'	S76°34'37"E	003°03'03"
C5	408.00'	45.74'	22.89'	45.71'	N78°15'47"W	006°25'22"
C6	408.00'	64.32'	32.23'	64.26'	N85°59'27"W	009°01'58"
C7	392.00'	24.75'	12.38'	24.75'	S88°41'54"E	003°37'05"
C8	367.00'	32.54'	16.28'	32.53'	S15°34'13"W	005°04'49"
C9	367.00'	67.29'	33.74'	67.20'	N07°46'39"E	010°30'20"
C10	359.96'	40.94'	20.49'	40.92'	N84°13'01"W	006°30'59"
C11	383.00'	40.93'	20.48'	40.91'	S84°24'50"E	006°07'22"
C12	383.00'	60.91'	30.52'	60.85'	N76°47'46"W	009°06'45"
C13	367.00'	93.81'	47.16'	93.55'	S79°33'46"E	014°38'44"
C14	367.00'	131.96'	66.70'	131.25'	S13°24'56"W	020°36'08"
C15	367.00'	54.20'	27.15'	54.16'	S82°39'30"E	008°27'45"
C16	367.00'	40.49'	20.27'	40.47'	S06°16'32"W	006°19'19"
C17	367.00'	82.05'	41.19'	81.88'	S09°31'09"W	012°48'33"

- GENERAL NOTES**
- UNLESS OTHERWISE SHOWN ON THE DRAWINGS, THE PROPOSED WATER MAINS SHALL BE INSTALLED NO LESS THAN TEN (10') FEET AWAY FROM EXISTING SEWER LINE. SEPARATIONS DISTANCES SHALL FOLLOW TCEQ STANDARD REQUIREMENTS (§290.44).
 - THE INTENT OF THE OWNER IS TO HAVE THE WATER MAINS INSTALLED TO SUCH A DEPTH THAT THEY WILL HAVE AT LEAST SIXTY (60") INCHES FROM INVERT OF PIPELINE TO PROPOSED ELEVATIONS AT ALL LOCATIONS. THE PIPELINES SHALL HAVE NO DIPS, ELEVATIONS AT ALL LOCATIONS. THE PIPELINES SHALL HAVE NO DIPS, SAGS OR HUMPS OR OTHER IRREGULARITIES IN VERTICAL ALIGNMENT. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO INSTALLING THE WATER PIPELINE SO THAT AN ACCEPTABLE PROFILE CAN BE ESTABLISHED PRIOR TO INSTALLATION OF THE PIPELINE.
 - IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD LOCATE ALL UNDERGROUND UTILITIES, SHOWN OR NOT SHOWN IN THE PLANS, AND COORDINATE WORK WITH ALL UTILITY COMPANIES, EL PASO WATER UTILITIES AND CITY OF EL PASO.
 - TRENCH SAFETY REQUIREMENTS SHALL BE AS REQUIRED BY OSHA.
 - AS-BUILT STATIONING, OFFSET FROM R.O.W. AND INVERT ELEVATIONS SHALL BE ACCURATELY RECORDED BY THE CONTRACTOR ON A CLEAN SET OF PLANS FOR EACH VALVE, FIRE HYDRANT, ELBOW, SERVICE CONNECTION AND/OR STUB-OUT, WITH RESPECT TO THE APPROPRIATE PROJECT CONTROL POINT.
 - THE EL PASO WATER UTILITIES AND CITY OF EL PASO MUST BE NOTIFIED FORTY-EIGHT (48) HOURS PRIOR TO COMMENCING ANY WORK IN AREAS WITHIN THEIR JURISDICTION.
 - EXISTING STREETS, DRIVEWAYS, PARKING LOTS, MAILBOXES, SIGNS, CHAIN-LINK FENCES, AND ALL OTHER MISCELLANEOUS STRUCTURES DAMAGE OR REMOVED BY CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO ORIGINAL OR BETTER THAN ORIGINAL CONDITION AT NO COST TO OWNER.
 - TRAFFIC CONTROL SHALL BE IN PLACE PRIOR TO INITIATING WORK.
 - ALL TIE-INS SHALL BE CLOSELY COORDINATED WITH THE EL PASO WATER UTILITIES AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO ACTUAL CONSTRUCTION.
 - CONTRACTOR SHALL PROVIDE THE REQUIRED COUPLINGS, ELBOWS AND NECESSARY PIPING APPURTENANCES FOR A COMPLETE AND OPERATIONAL WATER SYSTEM.
 - ALL NEW VALVES SHALL BE ALIGNED PERPENDICULAR TO PROPERTY LINES.
 - CONSTRUCTION OF THE PUBLIC WATER AND SEWER SYSTEM INCLUDING MATERIALS AND TESTING SHALL CONFORM EPWU-PSB SPECIFICATIONS FOR THE INSTALLATION OF WATER MAINS, SEWER MAINS AND RELATED APPURTENANCES.
 - FIRE HYDRANTS SHALL BE INSTALLED IN THE PARKWAY AREA.
 - THE WATER METERS FOR THE PROPOSED WATER SERVICE CONNECTIONS SHALL BE INSTALLED ON THE PARKWAYS. SYMBOLS ARE ONLY SHOWN FOR DEPICTION PURPOSES ONLY.

- GENERAL UTILITIES:**
TEXAS EXCAVATION SAFETY SERVICE
11884 GREENVILLE AVENUE.
DALLAS, TX. 75243
(800) 344-8377
- ENGINEER:**
CEA GROUP
813 N. KANSAS ST., STE. 300
EL PASO, TX. 79902
(915) 544-5232
MR. JORGE L. AZCARATE, P.E.
- FIBER OPTICS:**
U.S. SPRINT
151 N. BOONE ST.
EL PASO, TX. 79905
(915) 534-7910
- WATER & SEWER:**
EL PASO WATER UTILITIES
1154 HAWKINS BOULEVARD
EL PASO, TX. 79961
(915) 594-5530
- ELECTRIC:**
EL PASO ELECTRIC CO.
501 W. SAN ANTONIO ST.
EL PASO, TX. 79902
(915) 543-2076
- EL PASO STREETS**
EL PASO STREETS DEPARTMENT.
7969 SAN PAULO DR.
EL PASO, TX. 79907
(915) 621-6750
- TELEPHONE:**
SBC
11200 PELICANO
EL PASO, TX. 79935
(915) 595-5151
- FIBER OPTICS:**
AT&T
P.O. BOX 1650
EL PASO, TX. 79949
(1800) 852-3786
- RESIDENTIAL GAS LINES:**
TEXAS GAS SERVICE
4700 POLLARD ST.
EL PASO, TX. 79930
(915) 680-7218
- CABLE TELEVISION:**
TIME WARNER COMMUNICATIONS
7010 AIRPORT ROAD
EL PASO, TX. 79906
(915) 772-1123



WARNING!
BEFORE YOU DIG
CALL 811
FOR FIELD LOCATING EXISTING UTILITIES

REFERENCES - BENCHMARKS
CITY MONUMENT LOCATED AT THE CENTERLINE INTERSECTION OF CLOVERDALE DRIVE AND PALOMINO STREET, EL PASO, TEXAS. THE NORTH AMERICAN VERTICAL DATUM IS ELEVATION = 9939.32 (NAVD 86).

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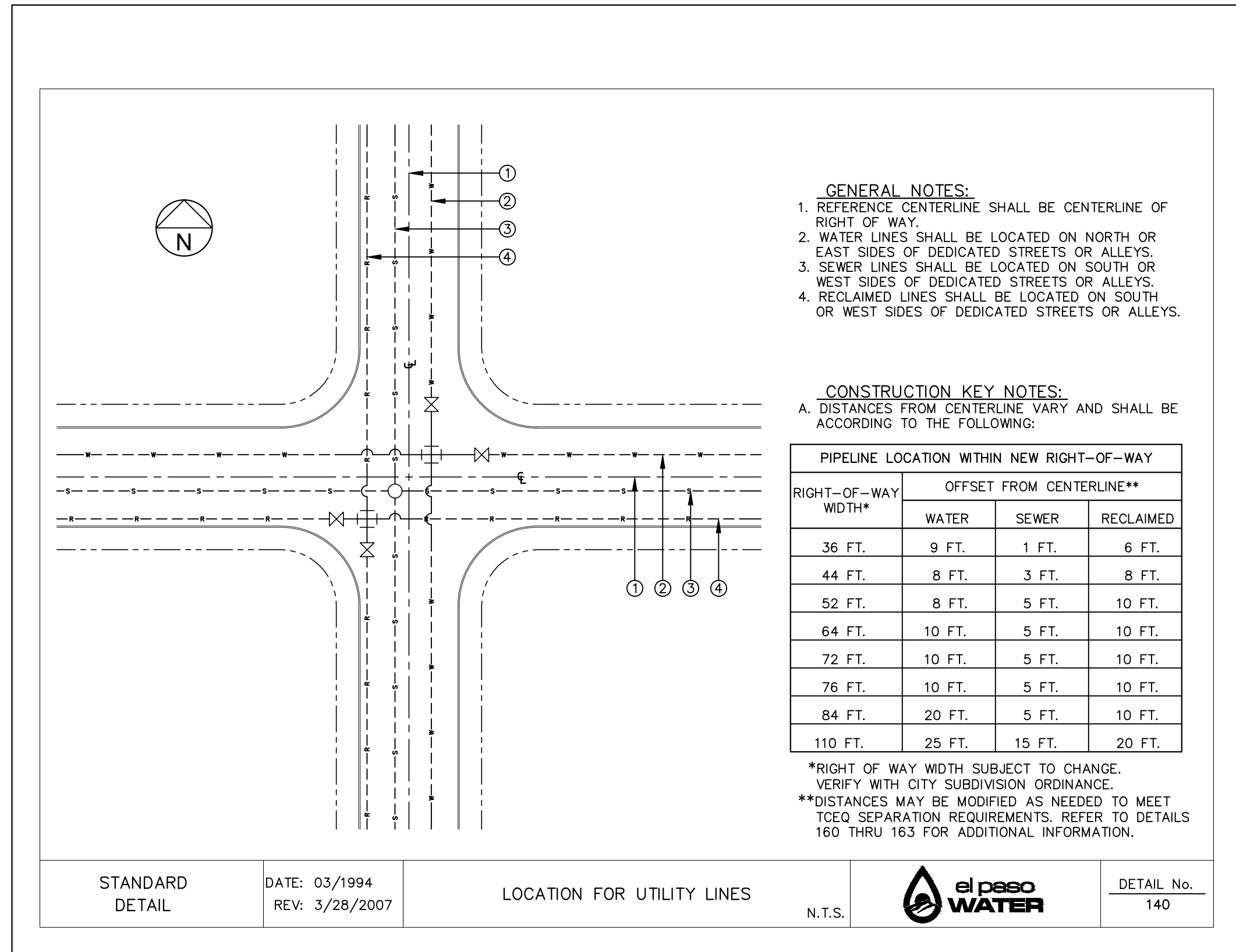
ENGINEER'S SEAL
JORGE L. AZCARATE
REGISTERED PROFESSIONAL ENGINEER
NO. 80075
EXPIRES 12/31/2023

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Vertical: N/A
Contour Interval: N/A
DATE: JUNE 2020
DESIGN BY: R.O.
DRAWN BY: F.Z.
CHKD. BY: J.L.A.
APPD. BY: J.L.A.
JOB NO.: 2000-223

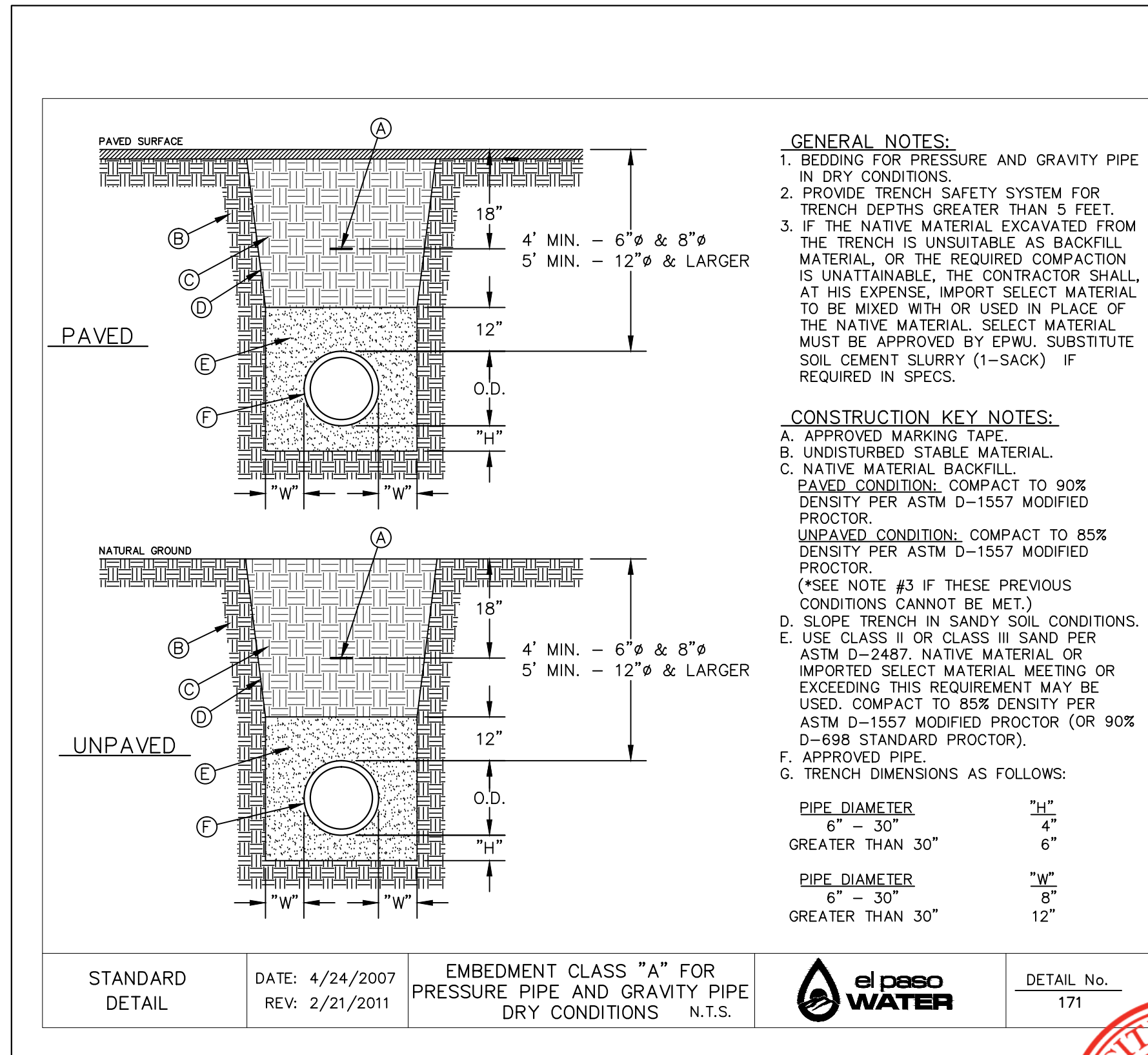
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HIDDEN VILLAGE UNIT TWO SUBDIVISION IMPROVEMENTS

SHEET TITLE
WATER INDEX/GENERAL INFORMATION

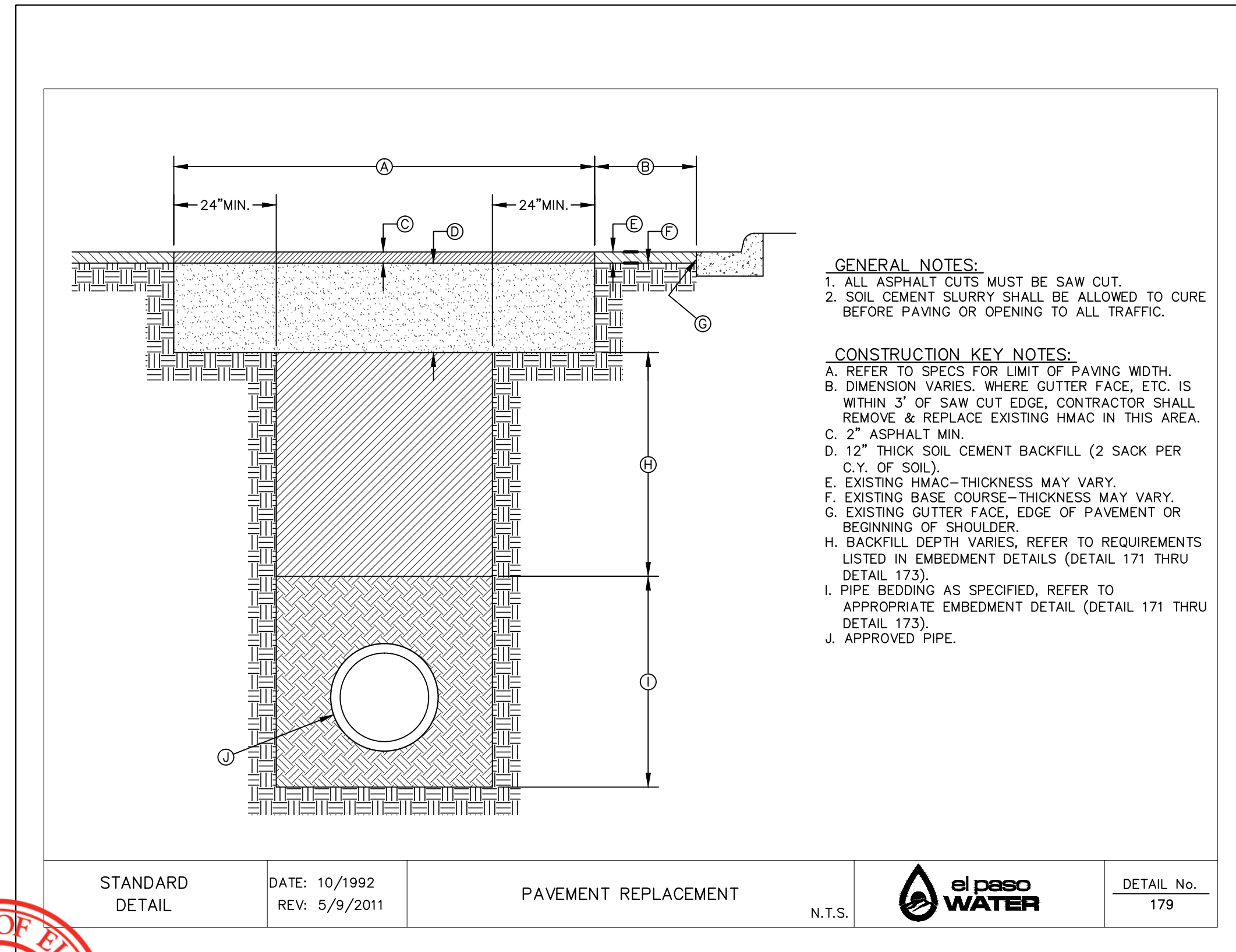
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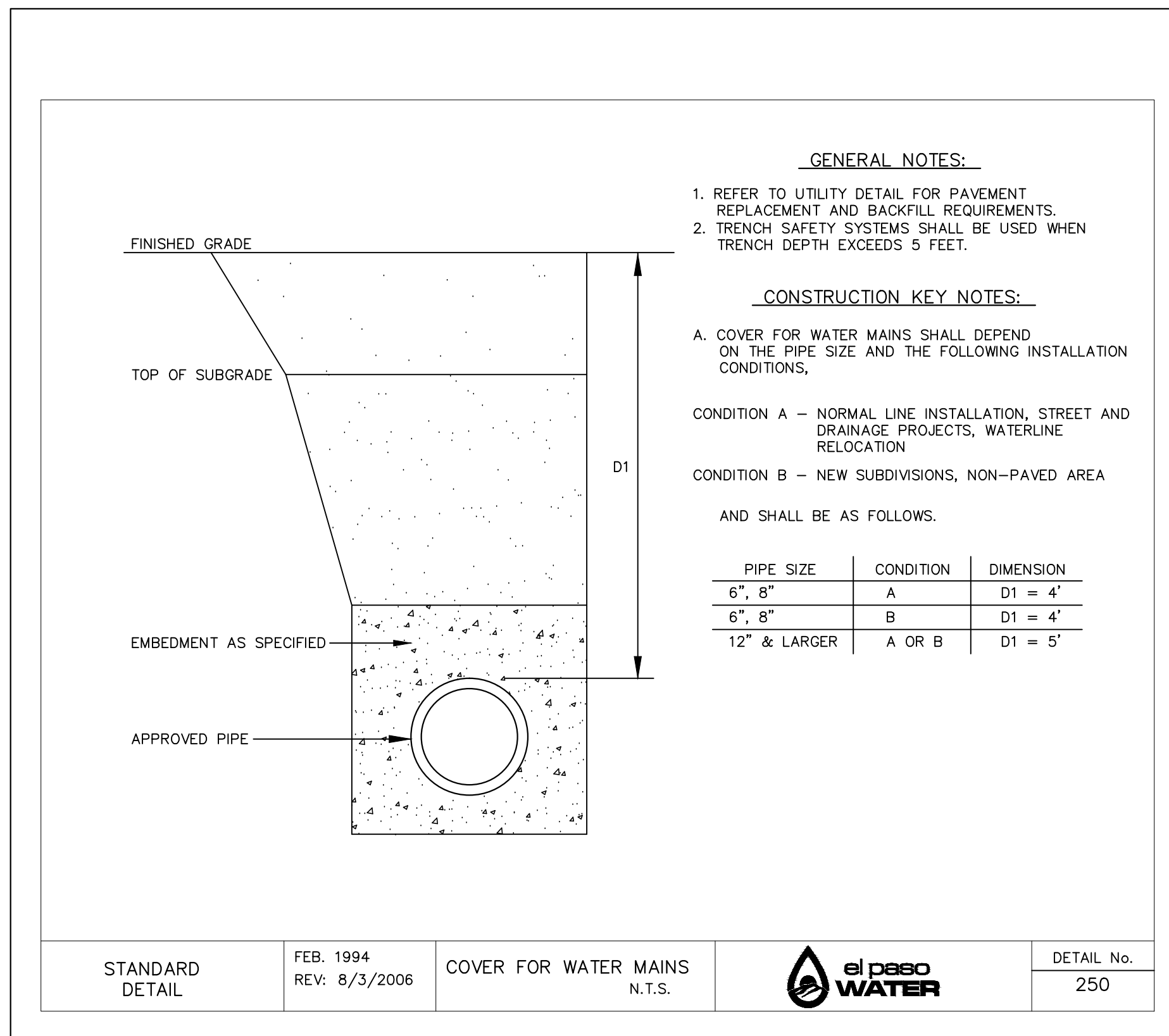
1 LOCATION FOR UTILITY LINES SCALE: NTS



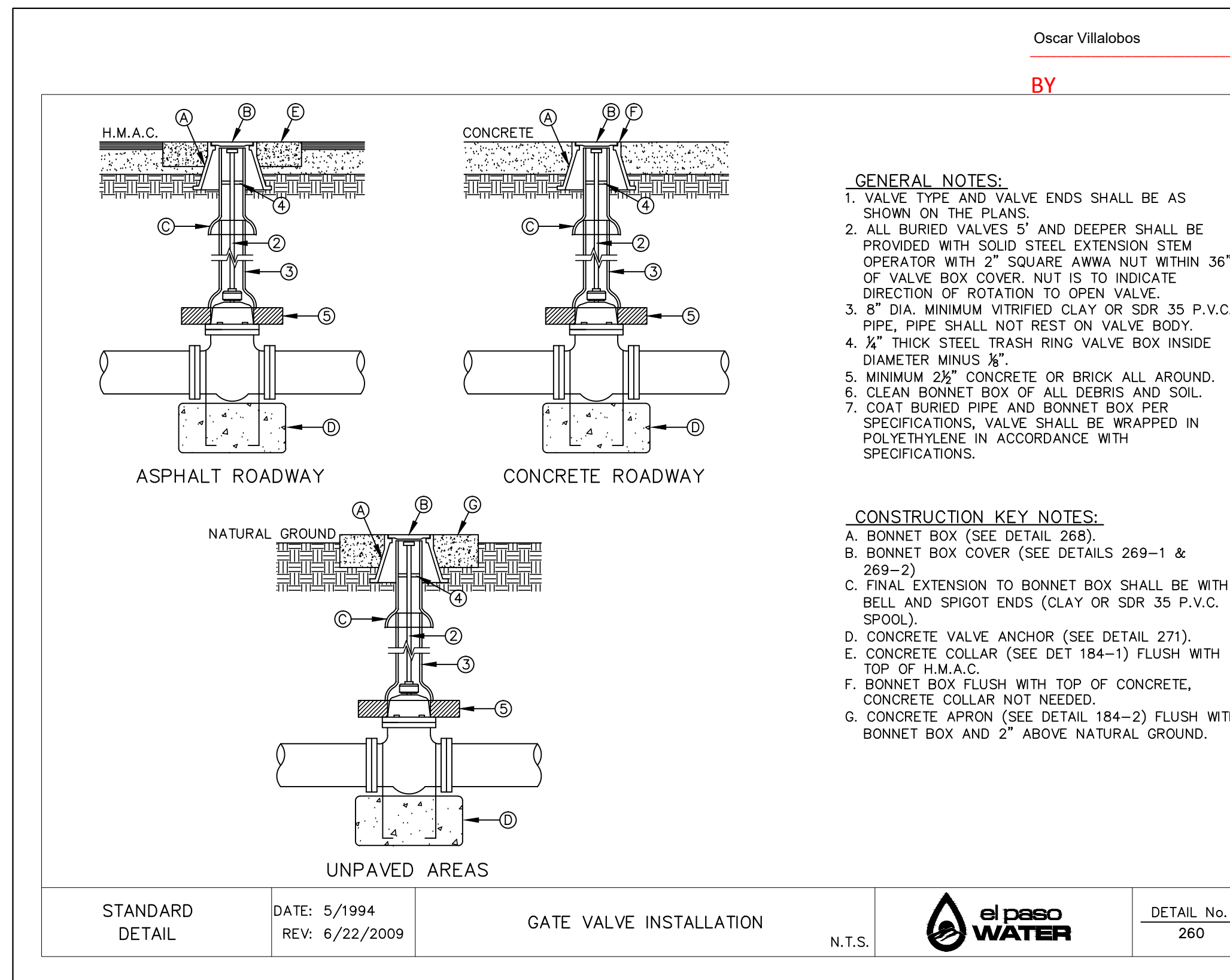
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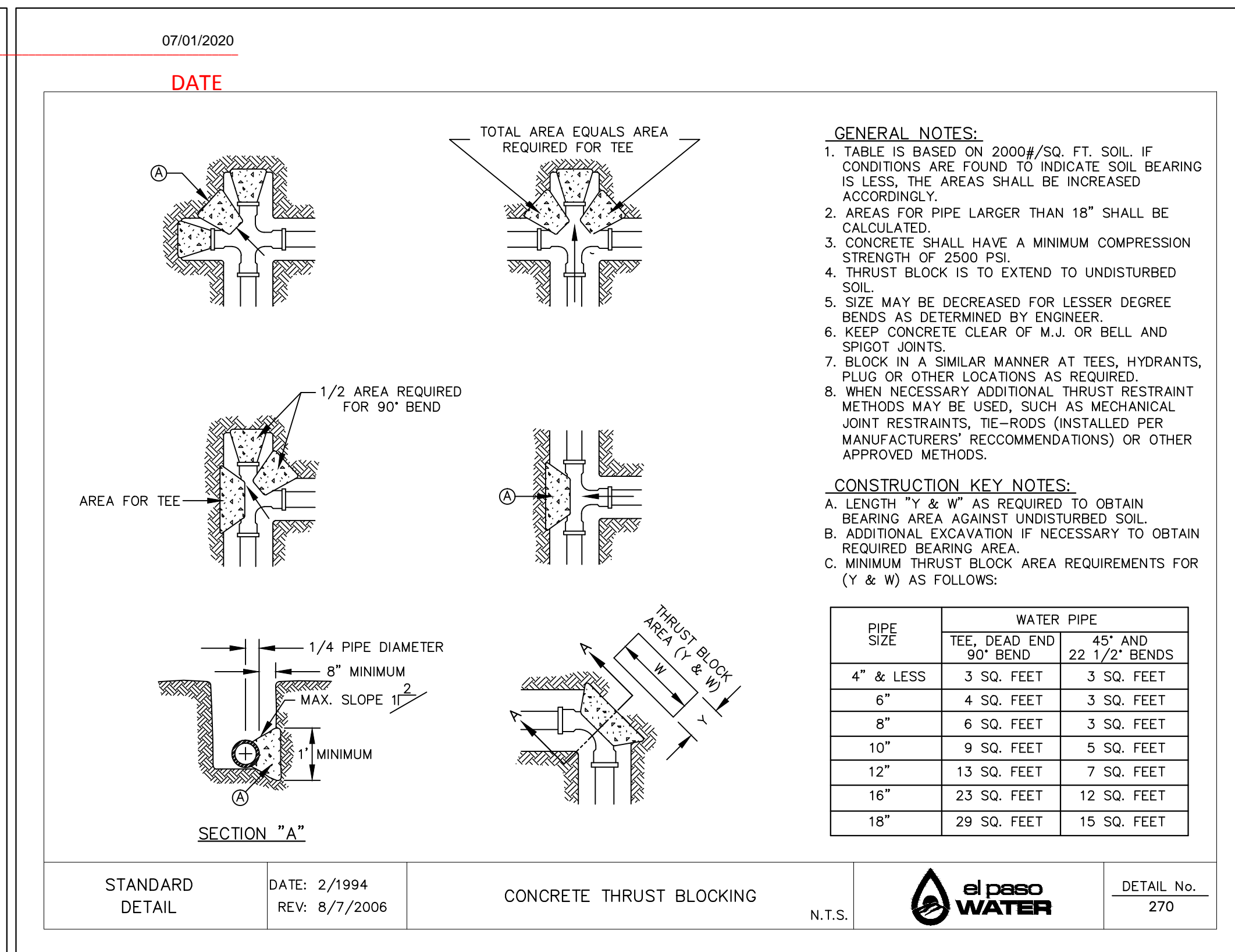
3 PAVEMENT REPLACEMENT SCALE: NTS



4 COVER FOR WATER MAINS SCALE: NTS



5 GATE VALVE INSTALLATION SCALE: NTS



6 CONCRETE THRUST BLOCKING SCALE: NTS

REFERENCES - BENCHMARKS
CITY MONUMENT LOCATED AT THE CENTERLINE INTERSECTION OF CLYDESDALE DRIVE AND PALOMINO STREET. THE NORTH AMERICAN VERTICAL DATUM IS ELEVATION = 9939.32 (NAD 86).

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GROUP
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ENGINEER'S SEAL
MORIS L. AZARATE
8075

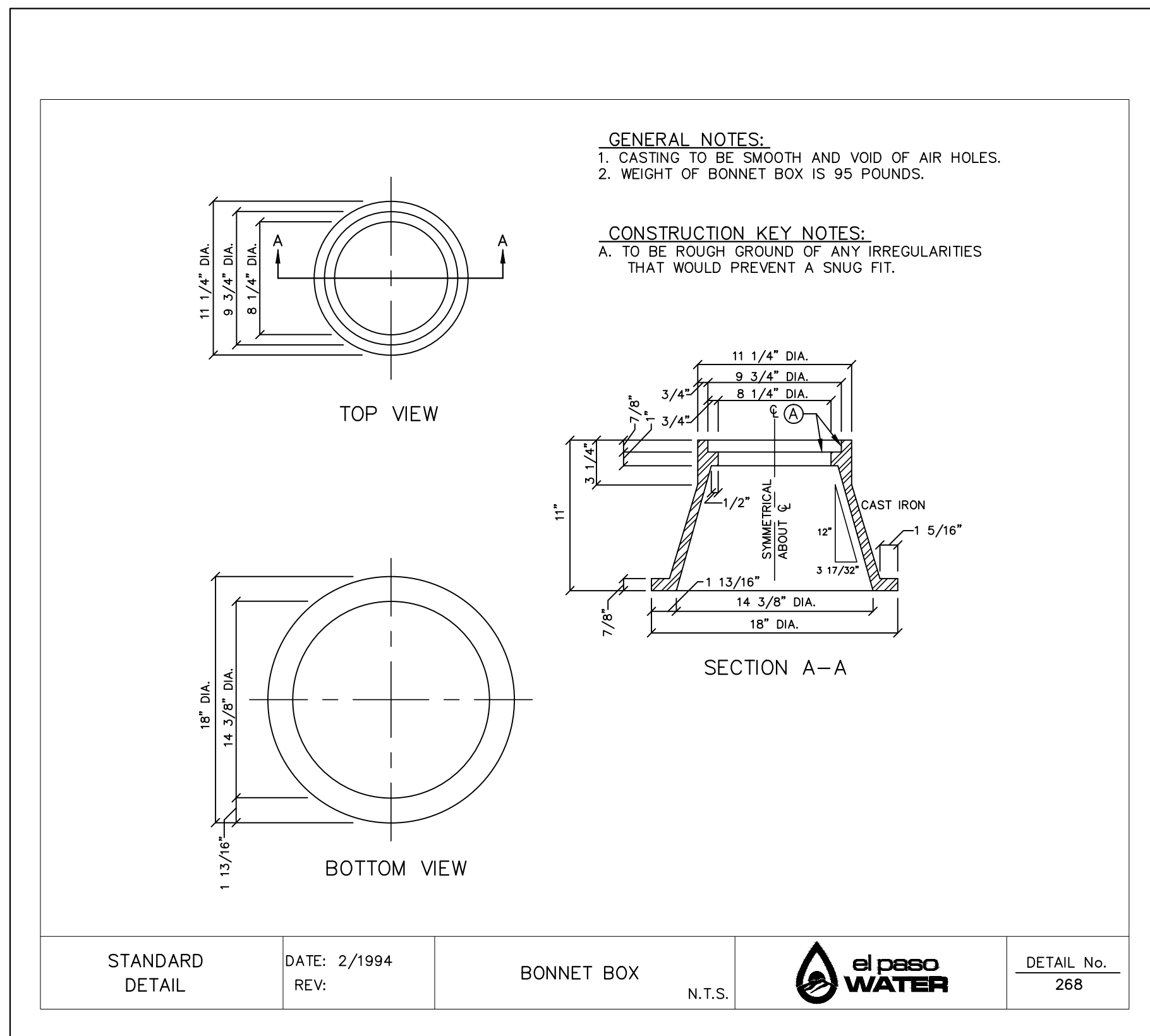
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DATE: JUNE 2020
DESIGN BY: R.O.
DRAWN BY: F.Z.
CHKD. BY: J.L.A.
APP'D. BY: J.L.A.
JOB No.: 2000-223

PROJECT TITLE
HIDDEN VILLAGE
UNIT TWO
SUBDIVISION IMPROVEMENTS

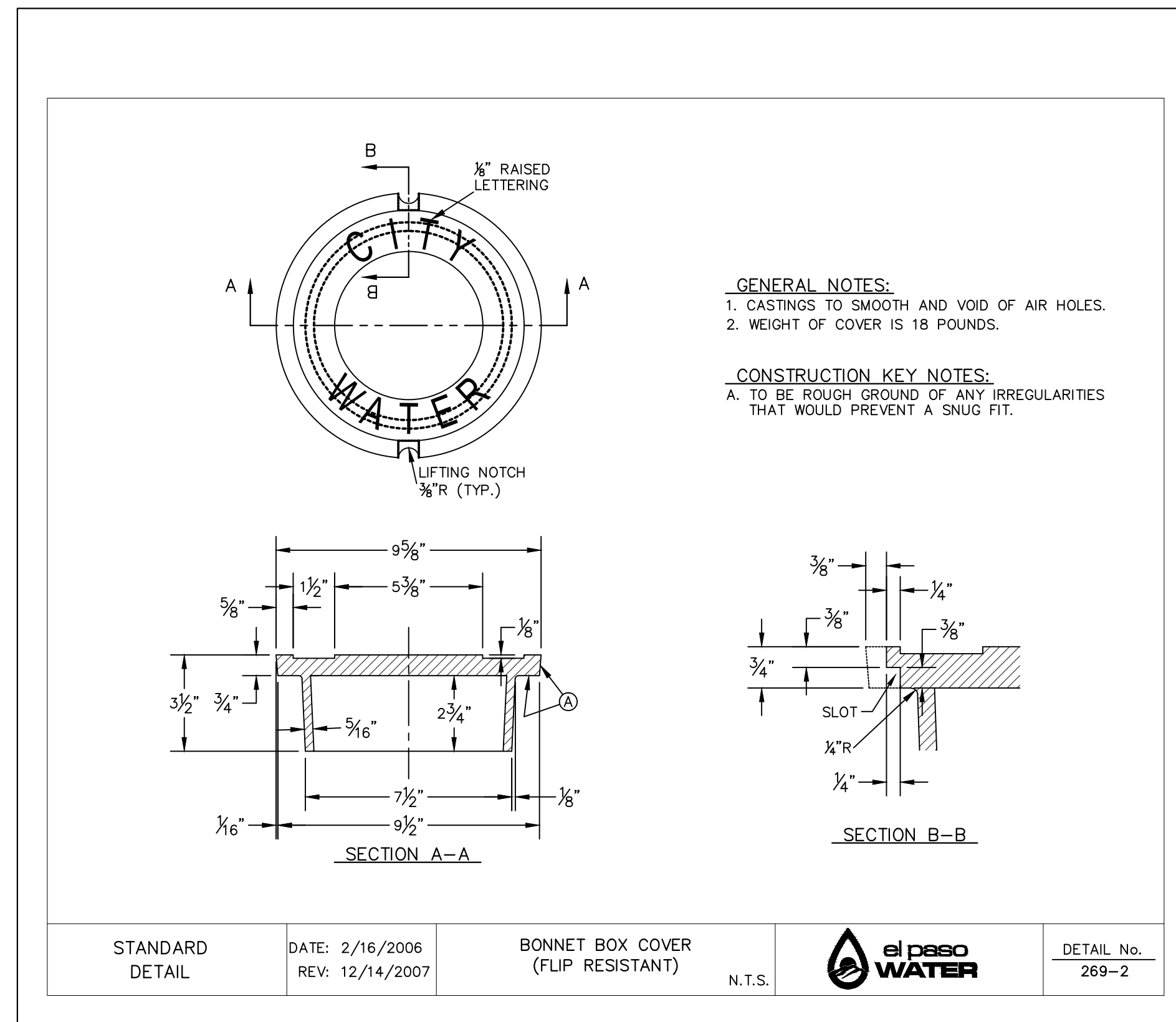
SHEET TITLE
WATER
DETAILS

(SHEET 1 OF 5)
SHEET NO.

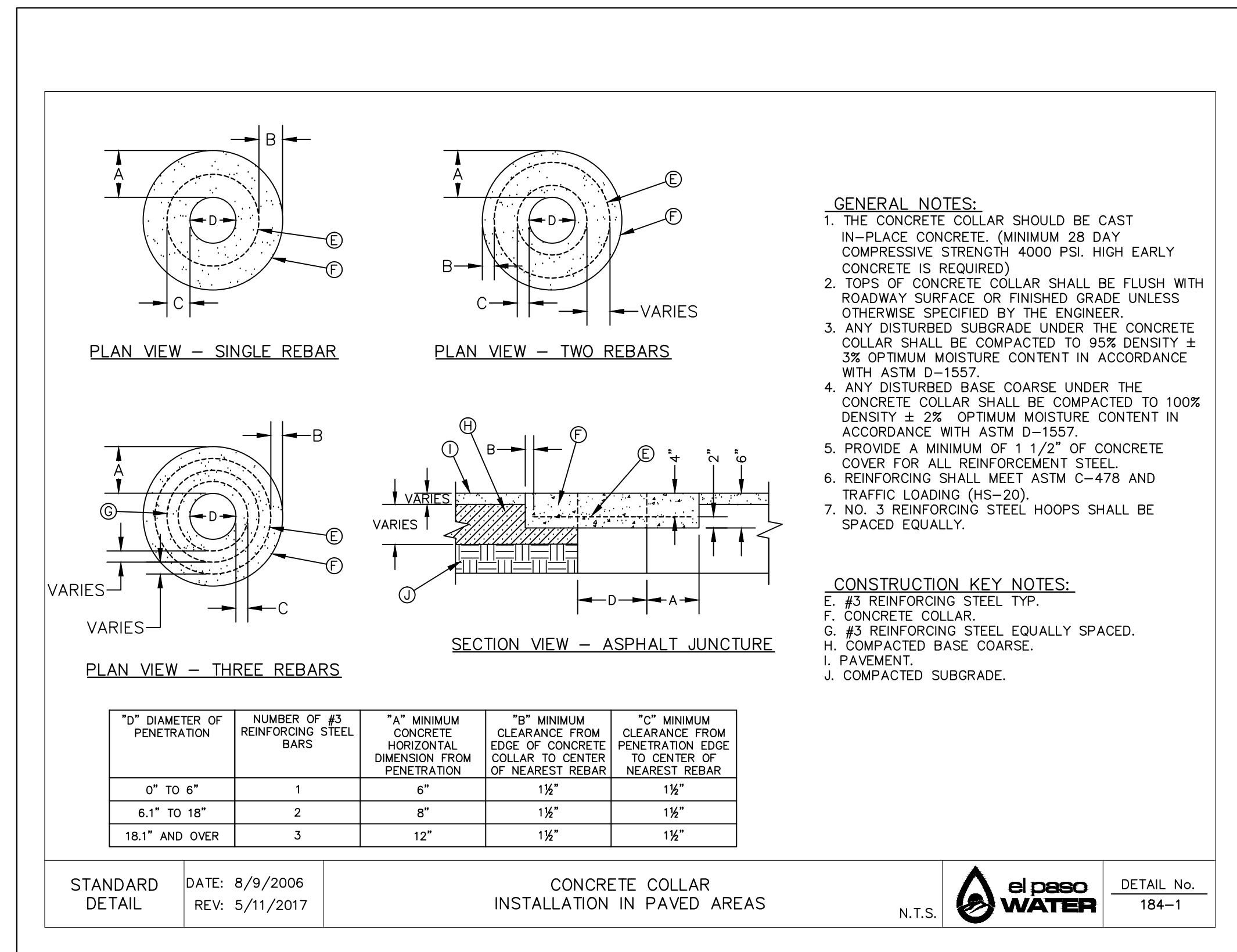
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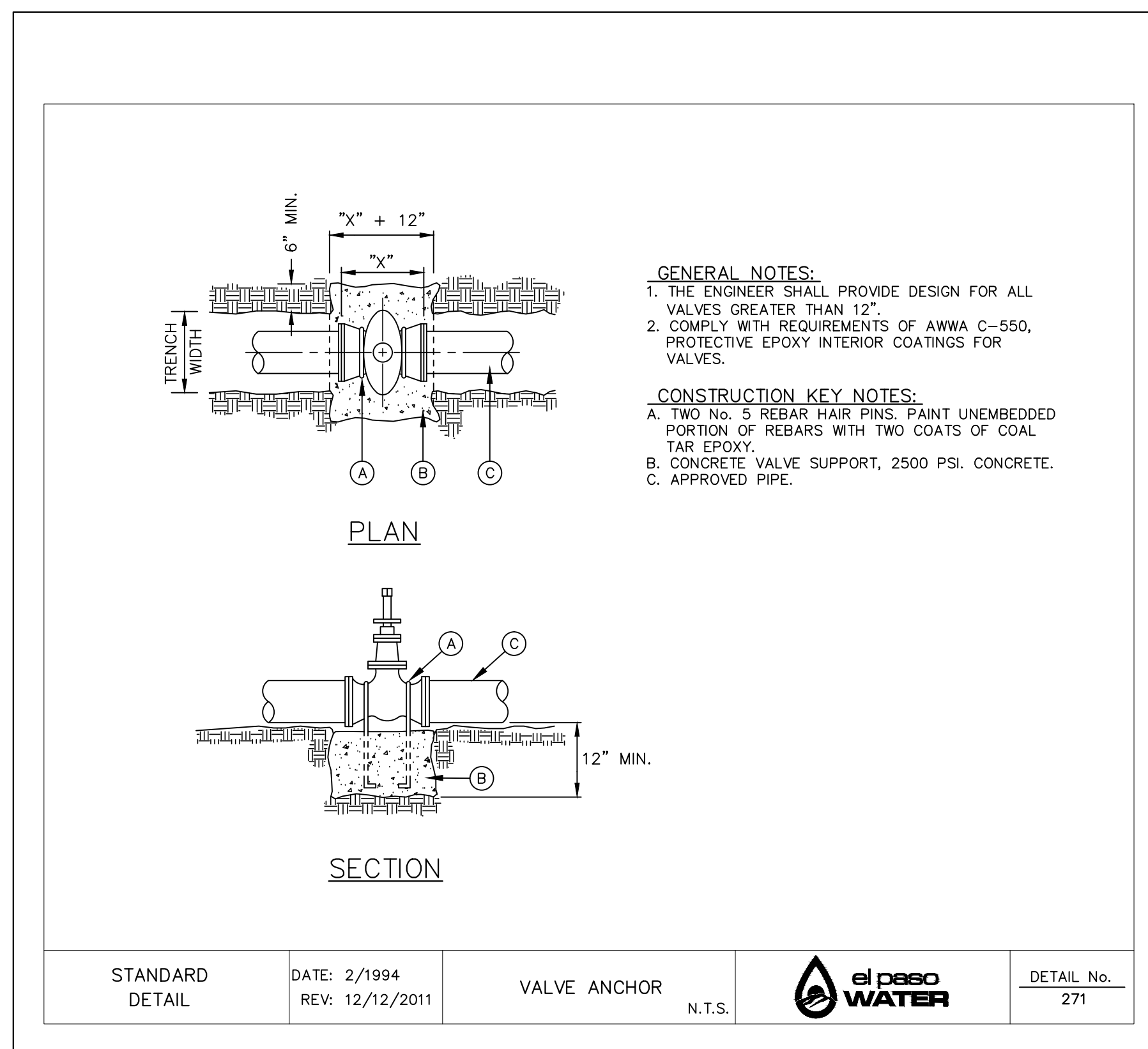
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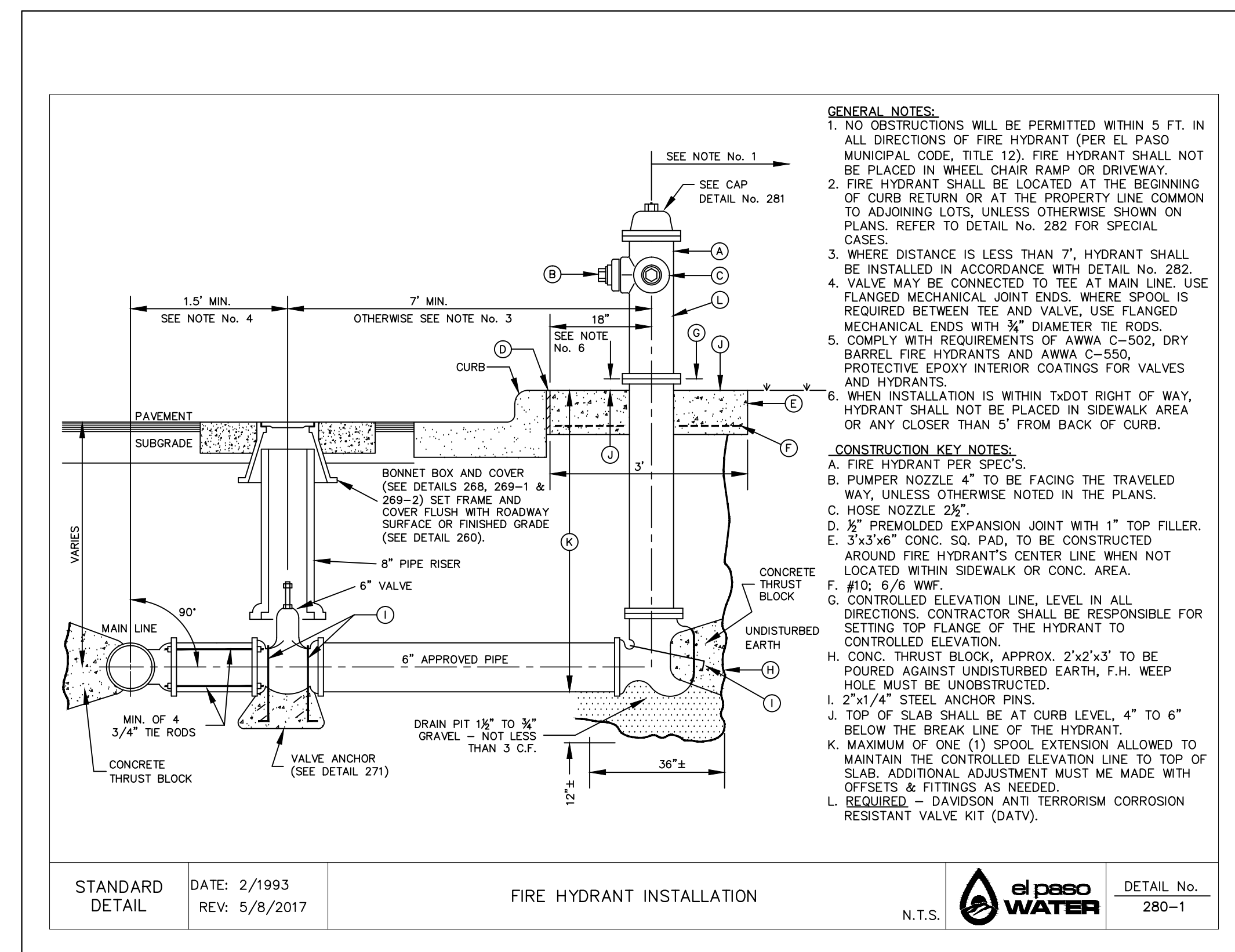
2 BONNET BOX COVER SCALE: NTS



3 CONCRETE COLLAR INSTALLATION IN PAVED AREAS SCALE: NTS



4 VALVE ANCHOR SCALE: NTS



5 FIRE HYDRANT INSTALLATION SCALE: NTS

Oscar Villalobos 07/01/2020
 BY DATE

REFERENCES - BENCHMARKS
 CITY MONUMENT LOCATED AT THE CENTERLINE INTERSECTION OF CLYDESDALE DRIVE AND PALOMINO STREET, THE NORTH AMERICAN VERTICAL DATUM IS ELEVATION = 3939.32 (NAD 86).

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ENGINEER'S SEAL
 JORGE L. AZARTE 8075

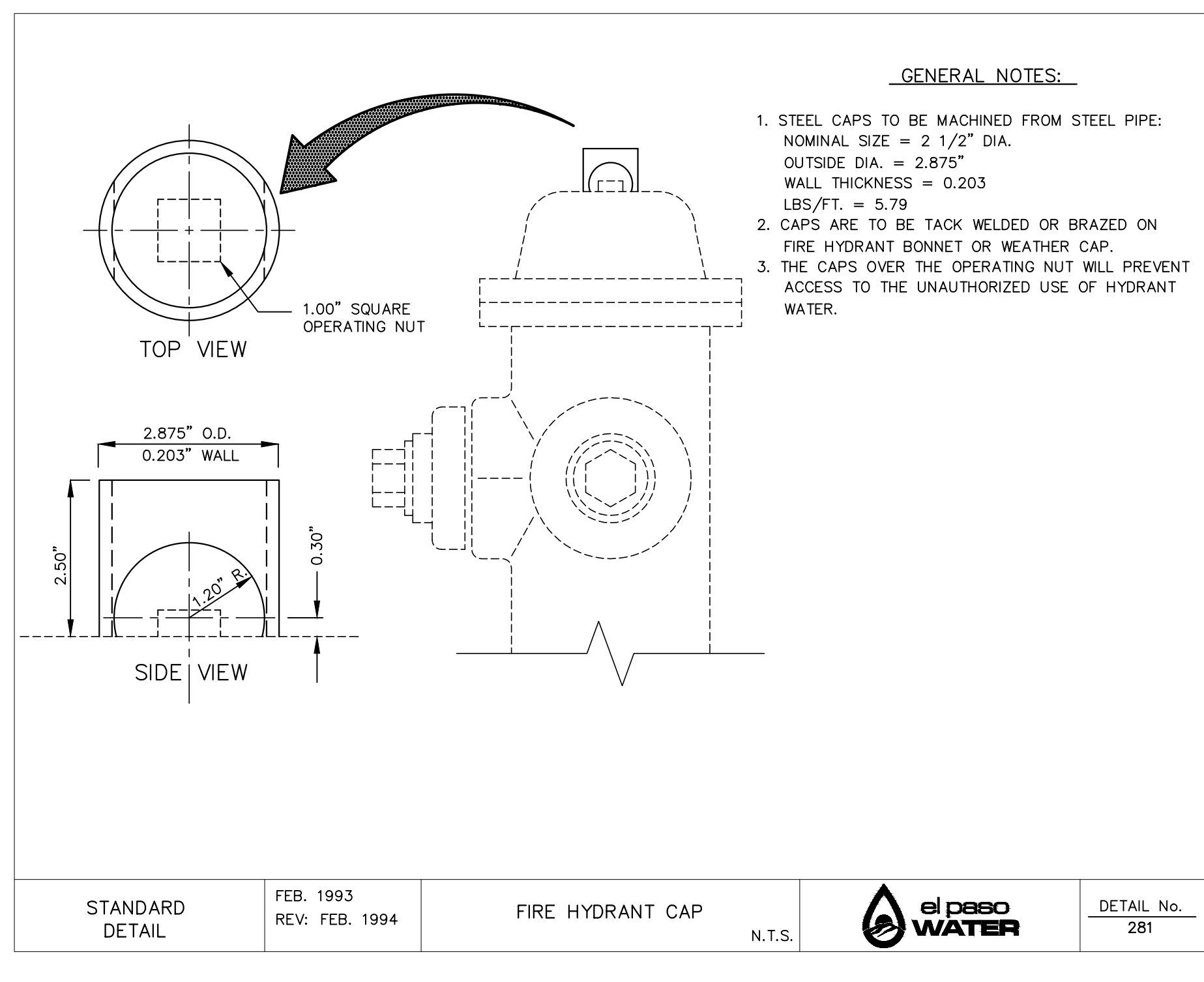
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PROJECT TITLE
HIDDEN VILLAGE UNIT TWO SUBDIVISION IMPROVEMENTS

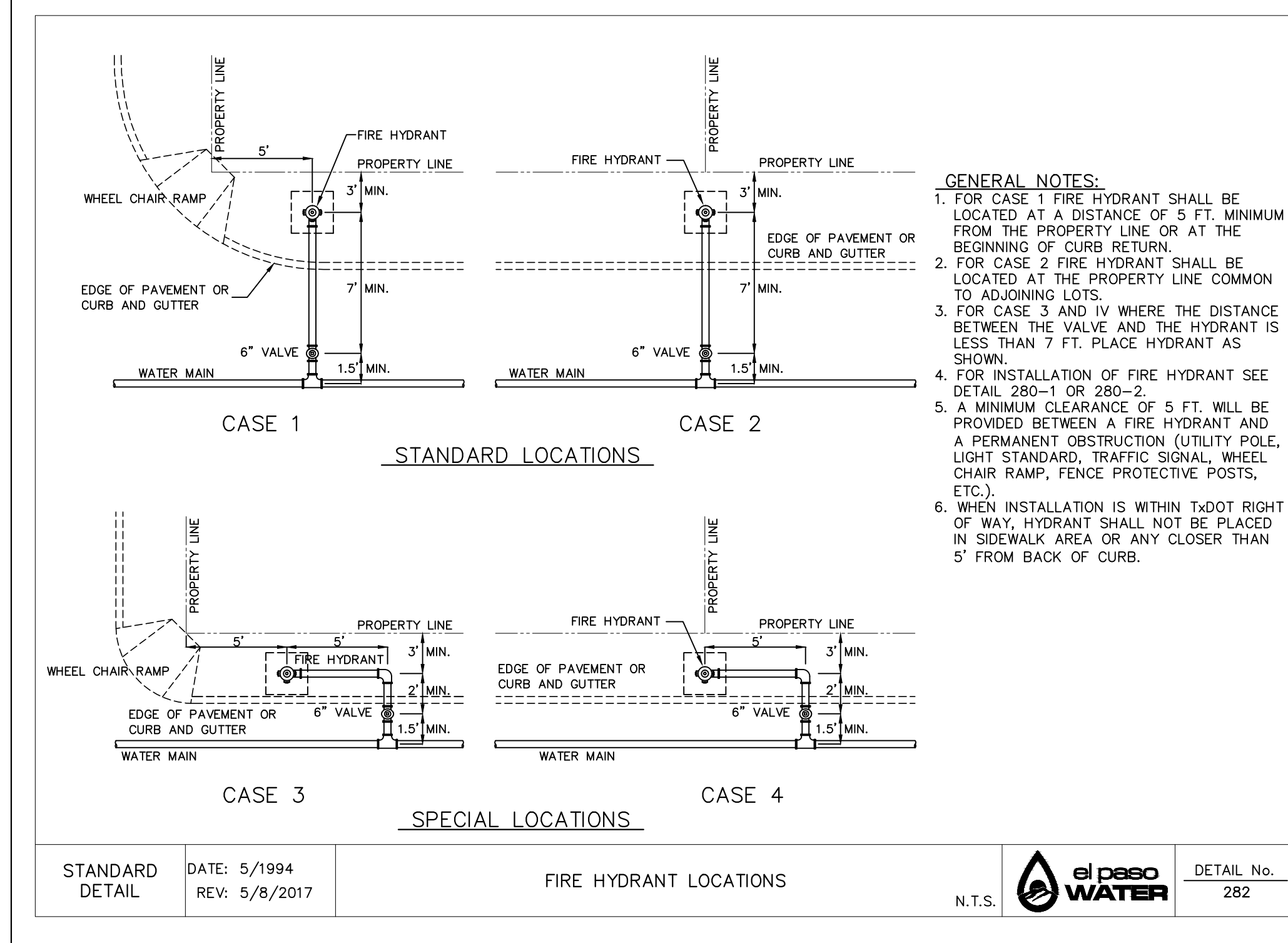
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WATER DETAILS

(SHEET 2 OF 5)
 SHEET NO.

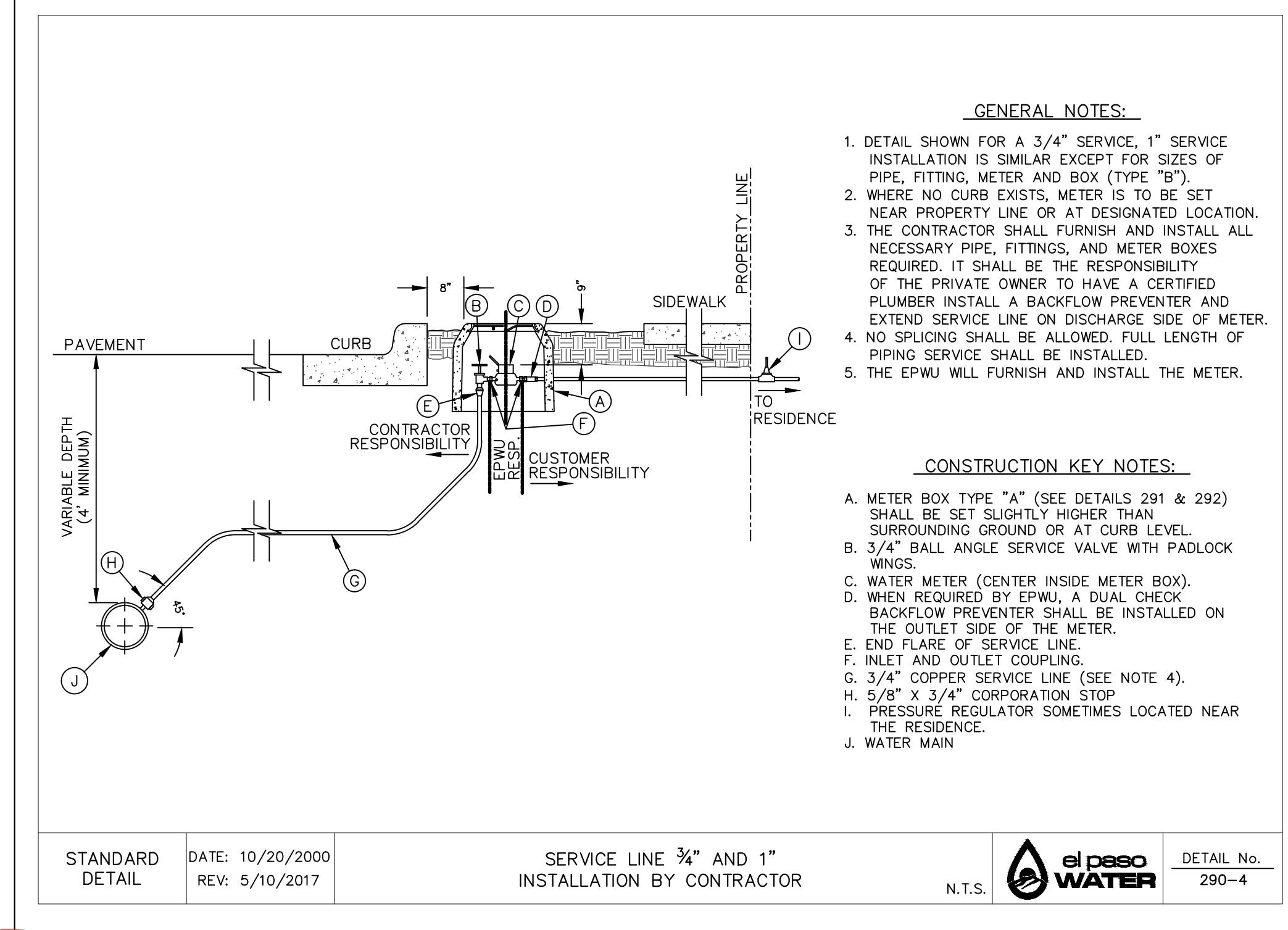
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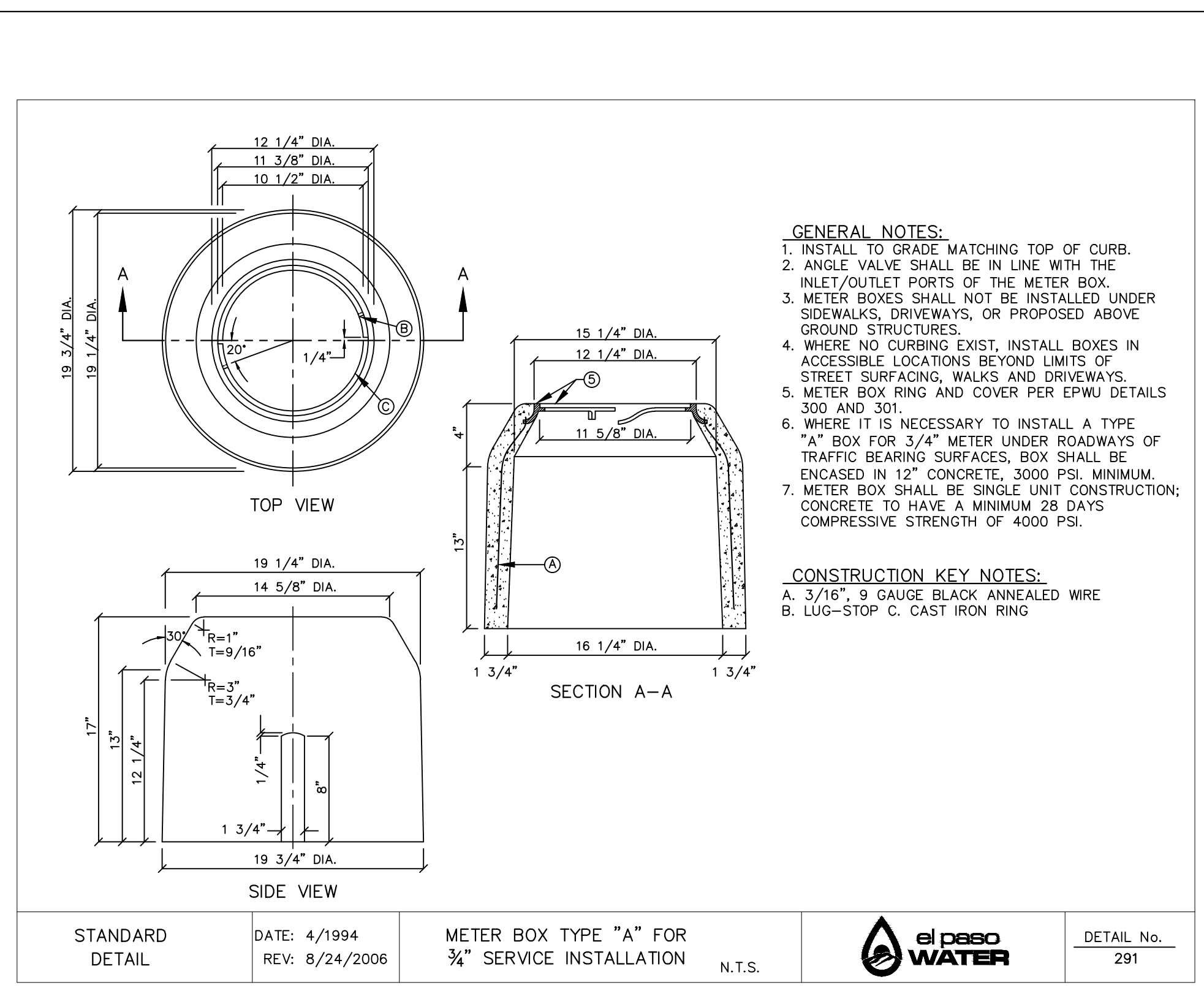
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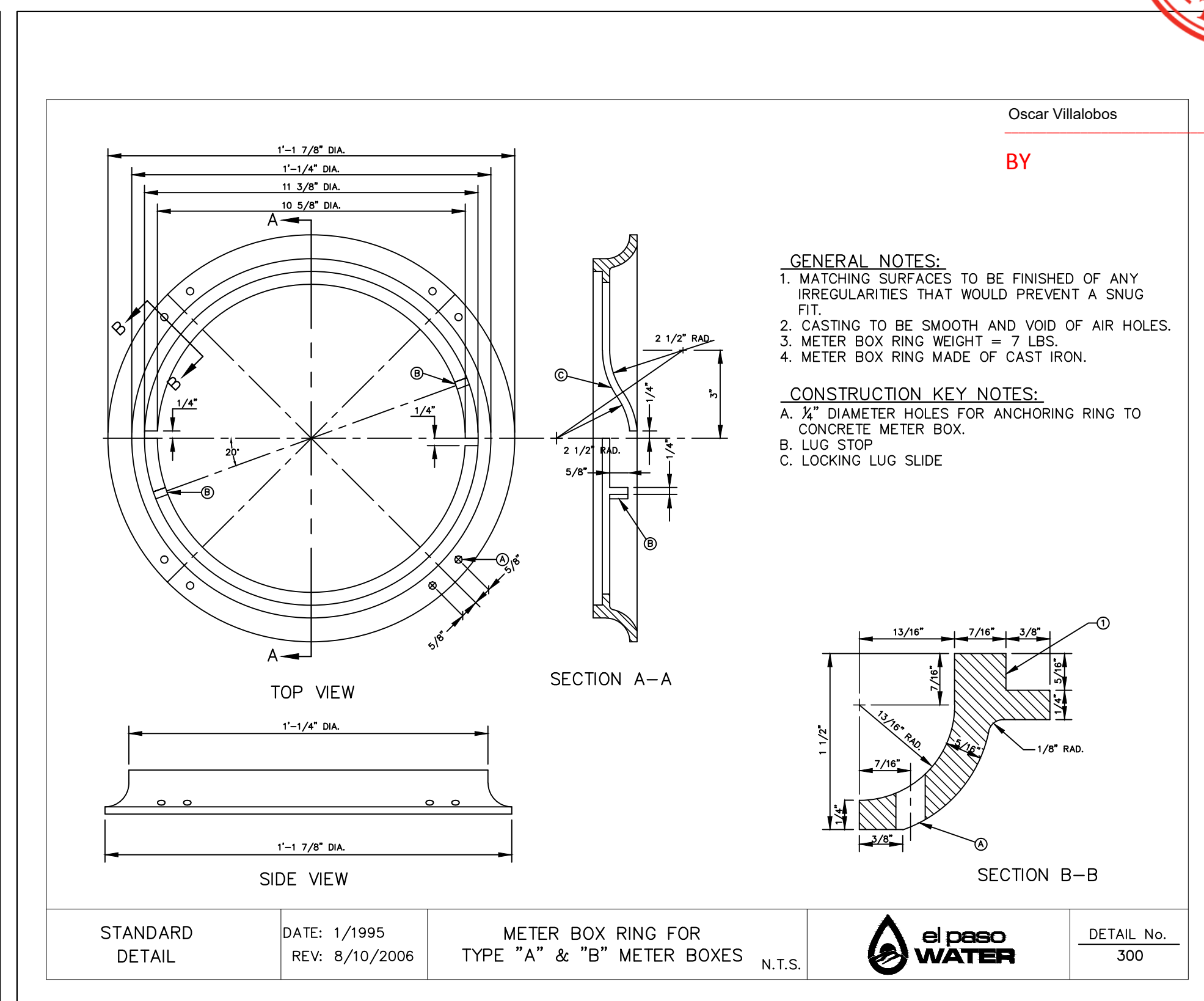
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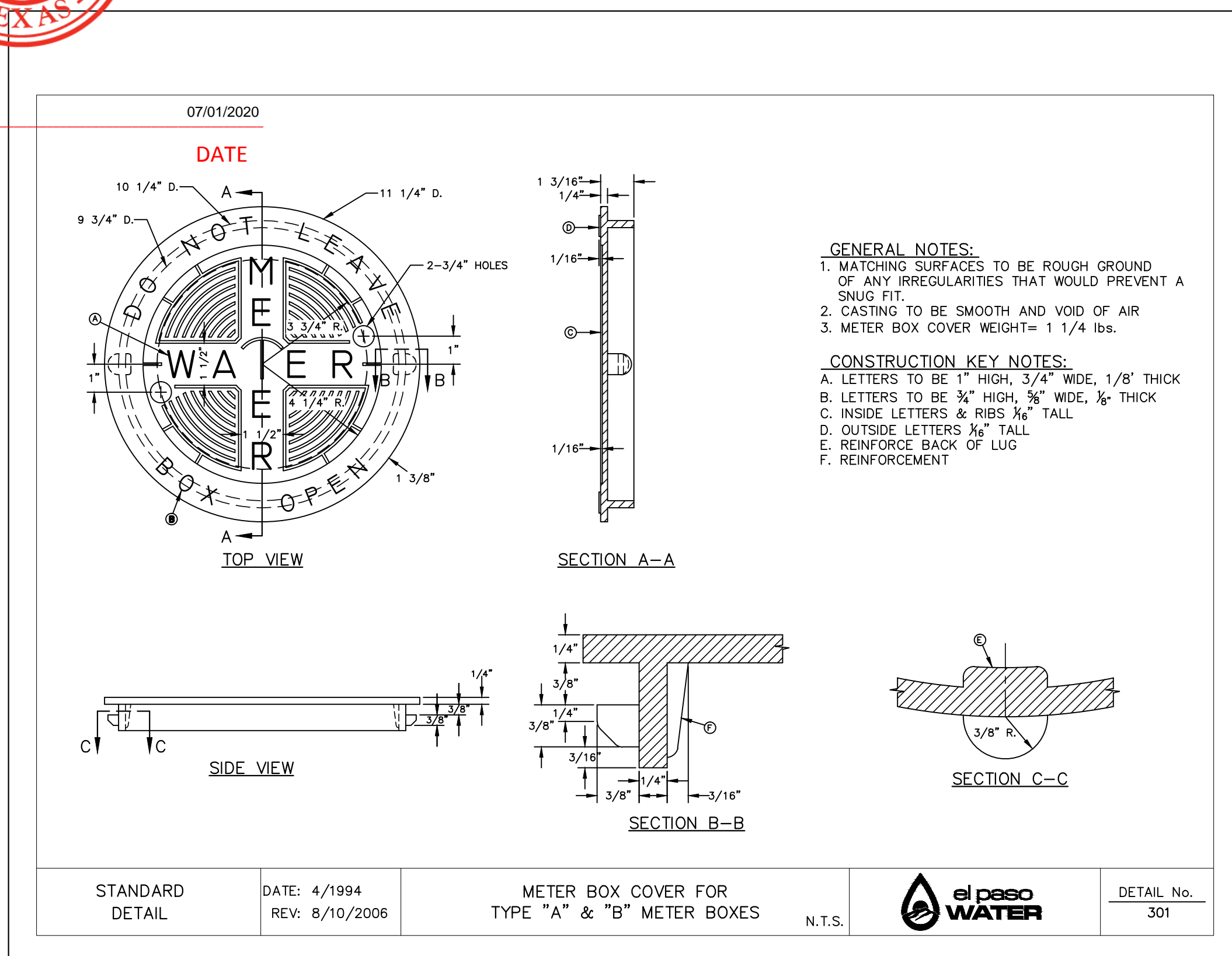
3 SERVICE LINE 3/4" AND 1" INSTALLATION
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4 METER BOX TYPE "A" FOR 3/4" SERVICE INSTALLATION
SCALE: NTS



5 METER BOX RING FOR TYPE "A" & "B" METER BOXES
SCALE: NTS



6 METER BOX COVER FOR TYPE "A" & "B" METER BOXES
SCALE: NTS

REFERENCES - BENCHMARKS

CITY MONUMENT LOCATED AT THE CENTERLINE INTERSECTION OF CLYDESDALE DRIVE AND PALOMINO STREET, ELEVATION = 9939.32 (NAD 83).

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ENGINEER'S SEAL

SCALE: AS SHOWN
Horizontal: N/A
Vertical: N/A
Contour Interval: N/A

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HIDDEN VILLAGE
UNIT TWO
SUBDIVISION IMPROVEMENTS

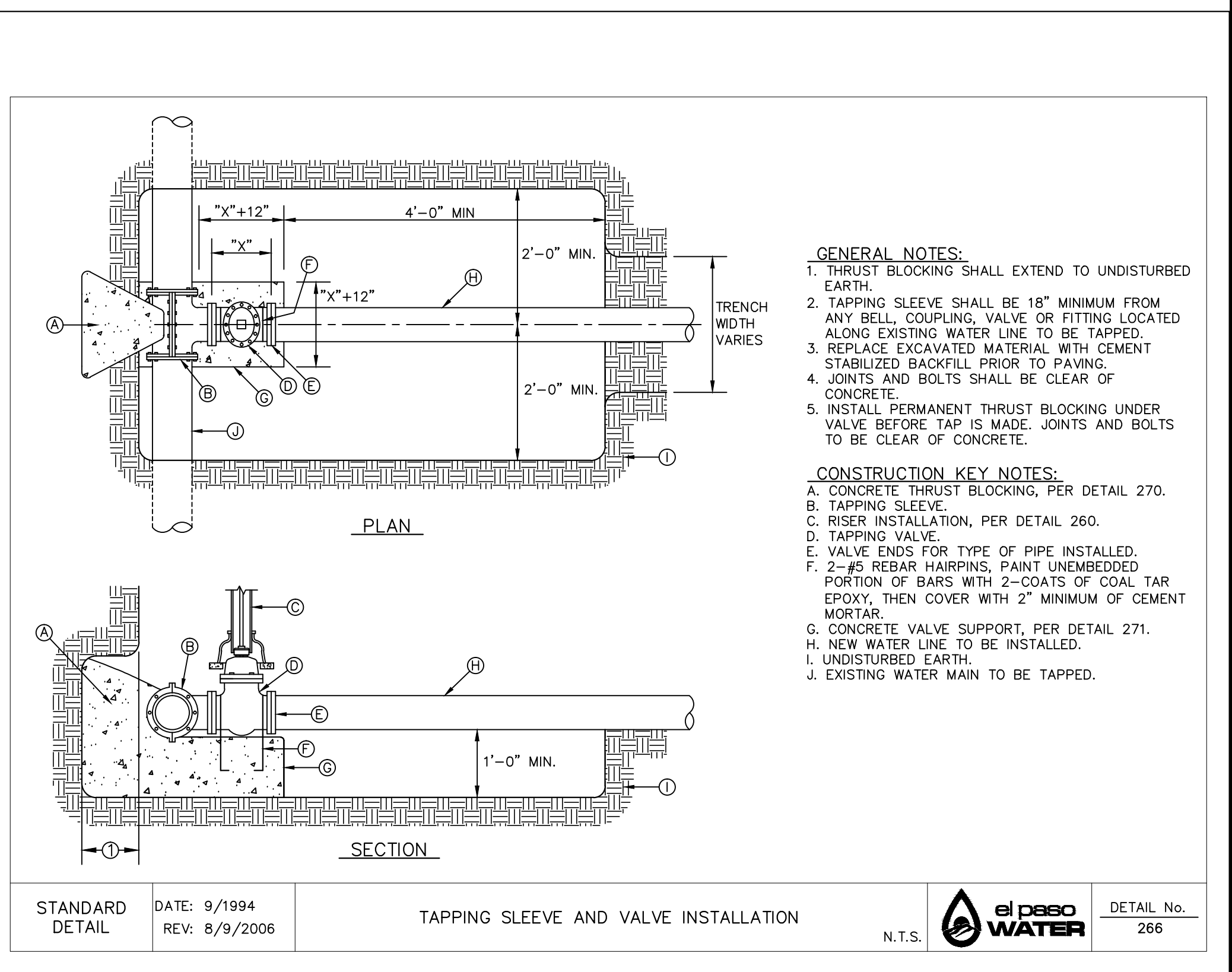
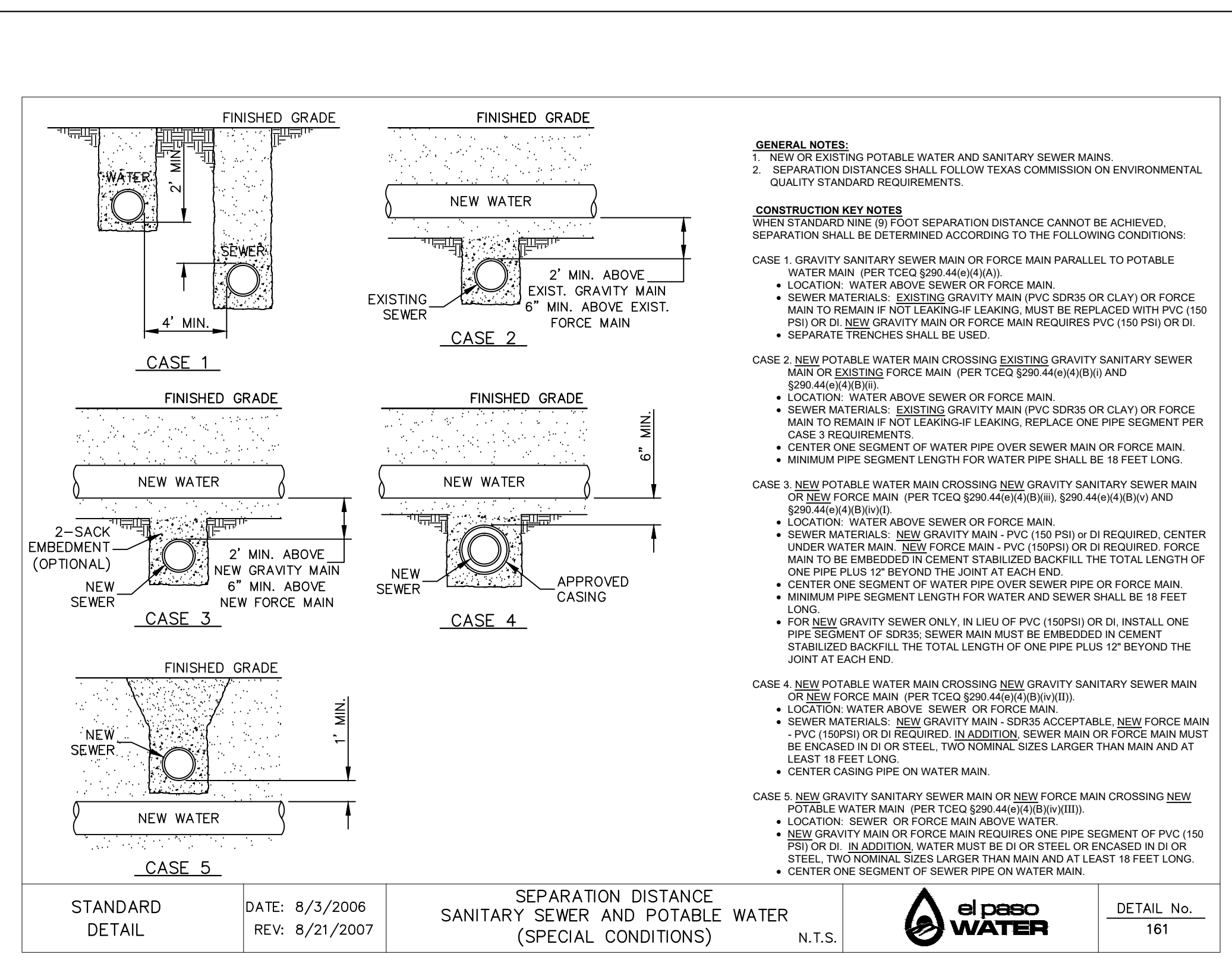
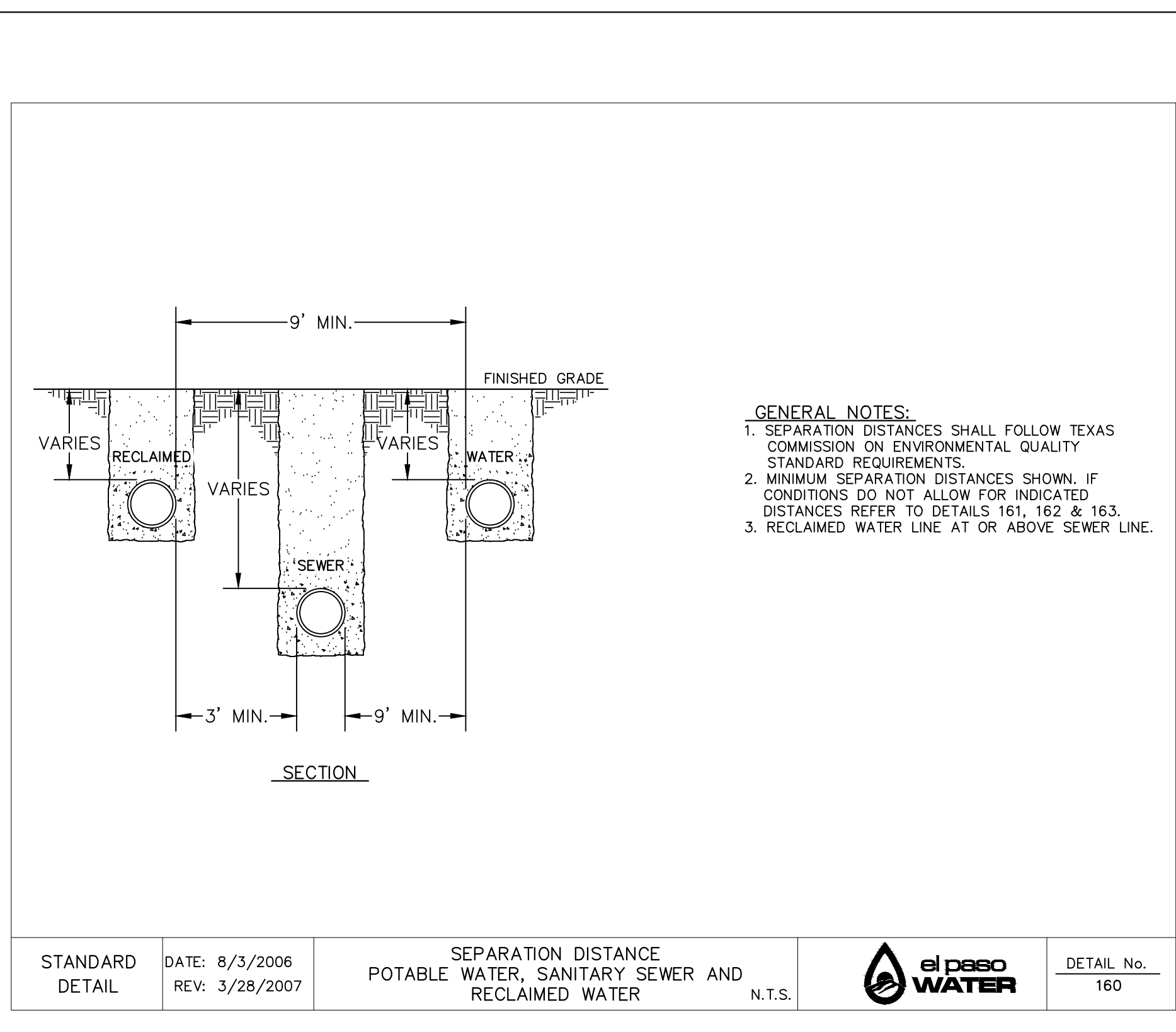
SHEET TITLE

WATER DETAILS

(SHEET 3 OF 5)

SHEET NO.

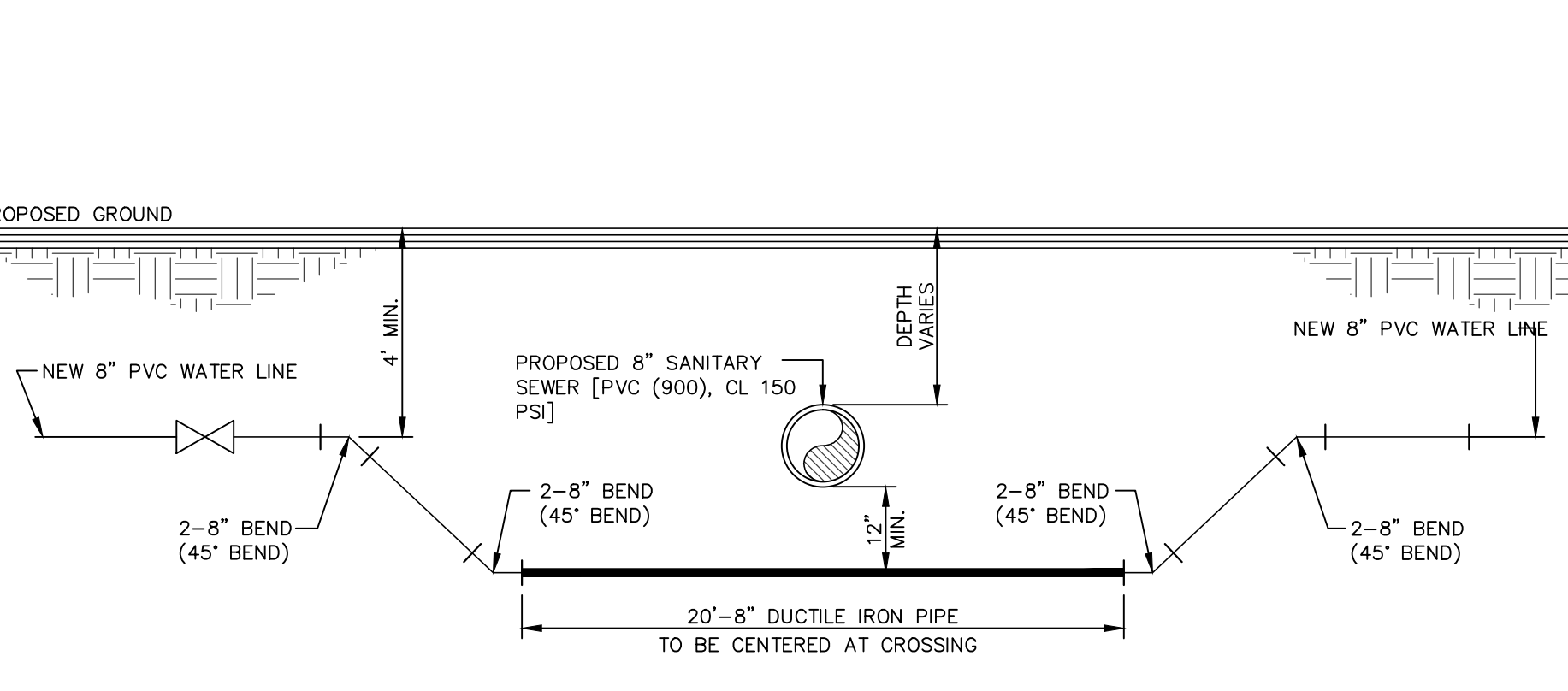
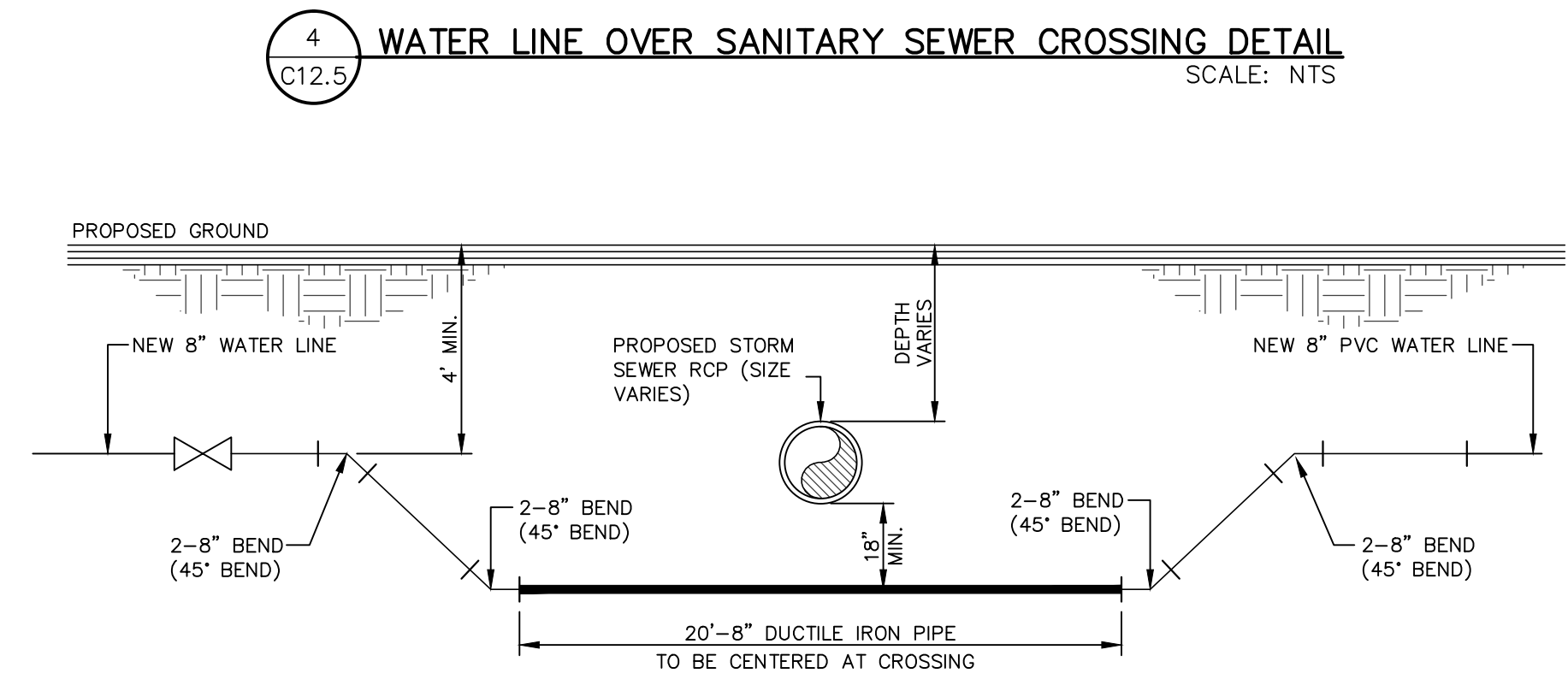
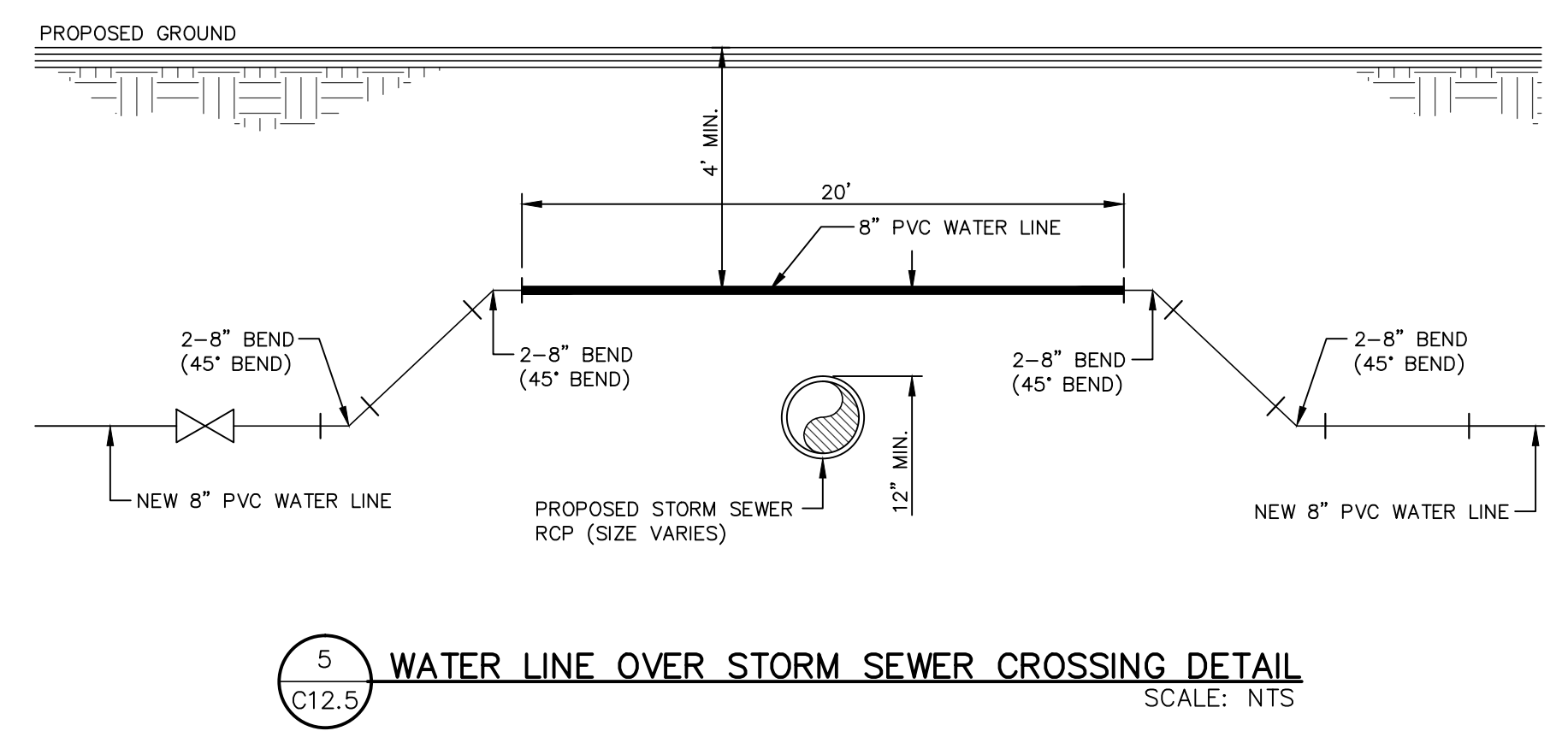
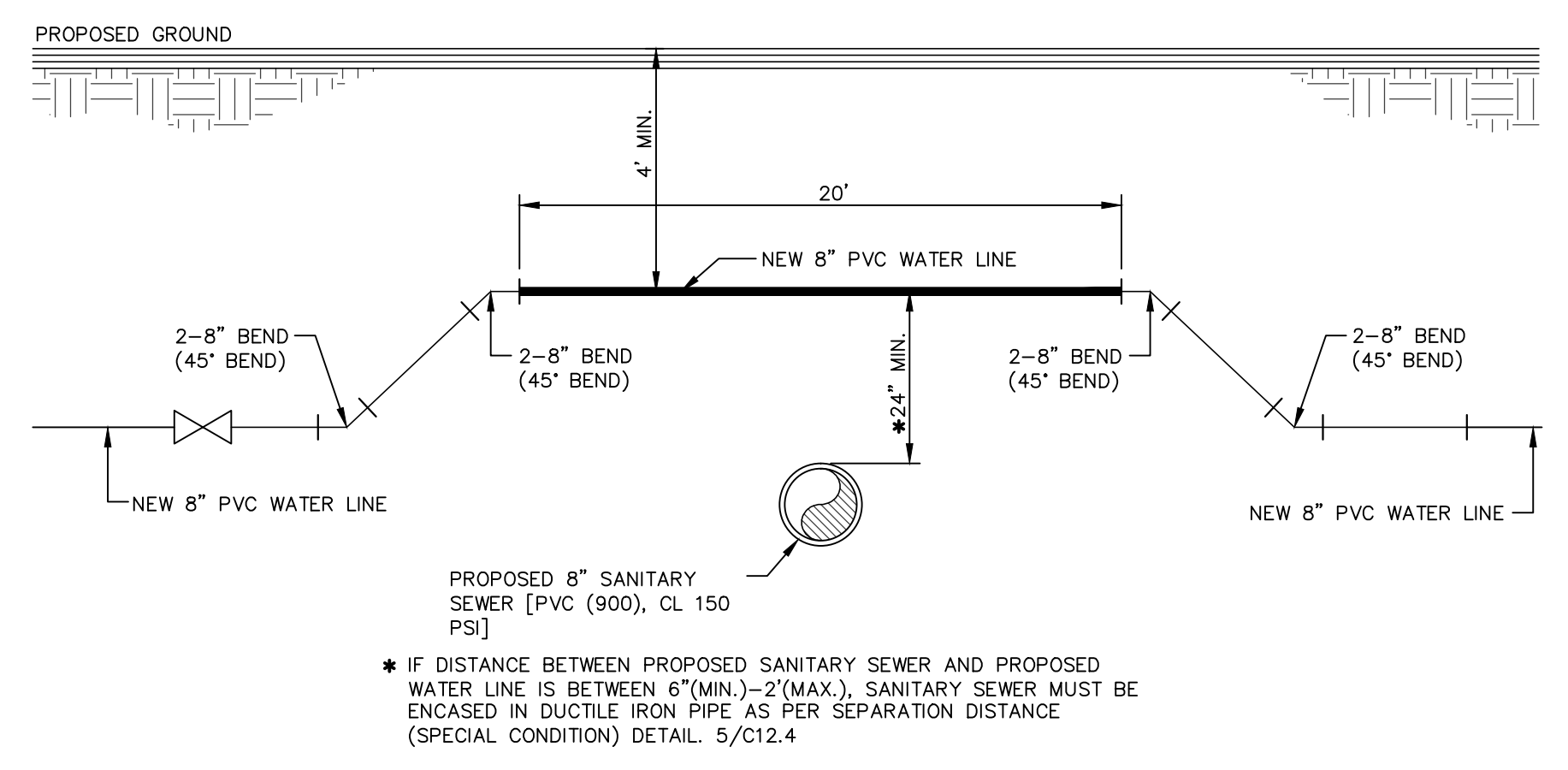
C12.4



1 C12.5 SEPARATION DISTANCE POTABLE WATER, SANITARY SEWER AND RECLAIMED WATER SCALE: NTS

2 C12.5 SEPARATION DISTANCE SANITARY SEWER AND POTABLE WATER (SPECIAL CONDITIONS) SCALE: NTS

3 C12.5 TAPPING SLEEVE AND VALVE INSTALLATION SCALE: NTS



Oscar Villalobos 07/01/2020
 BY DATE

REFERENCES - BENCHMARKS
 CITY MONUMENT LOCATED AT THE CENTERLINE INTERSECTION OF CLYDESDALE DRIVE AND PALOMINO STREET, THE NORTH AMERICAN VERTICAL DATUM IS ELEVATION = 3939.32 (NAD 86).

813 N. Kansas St.
 Suite 300
 El Paso, TX 79902
 915.544.5232
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 TEXAS REGISTERED ENGINEERING FIRM F-4564

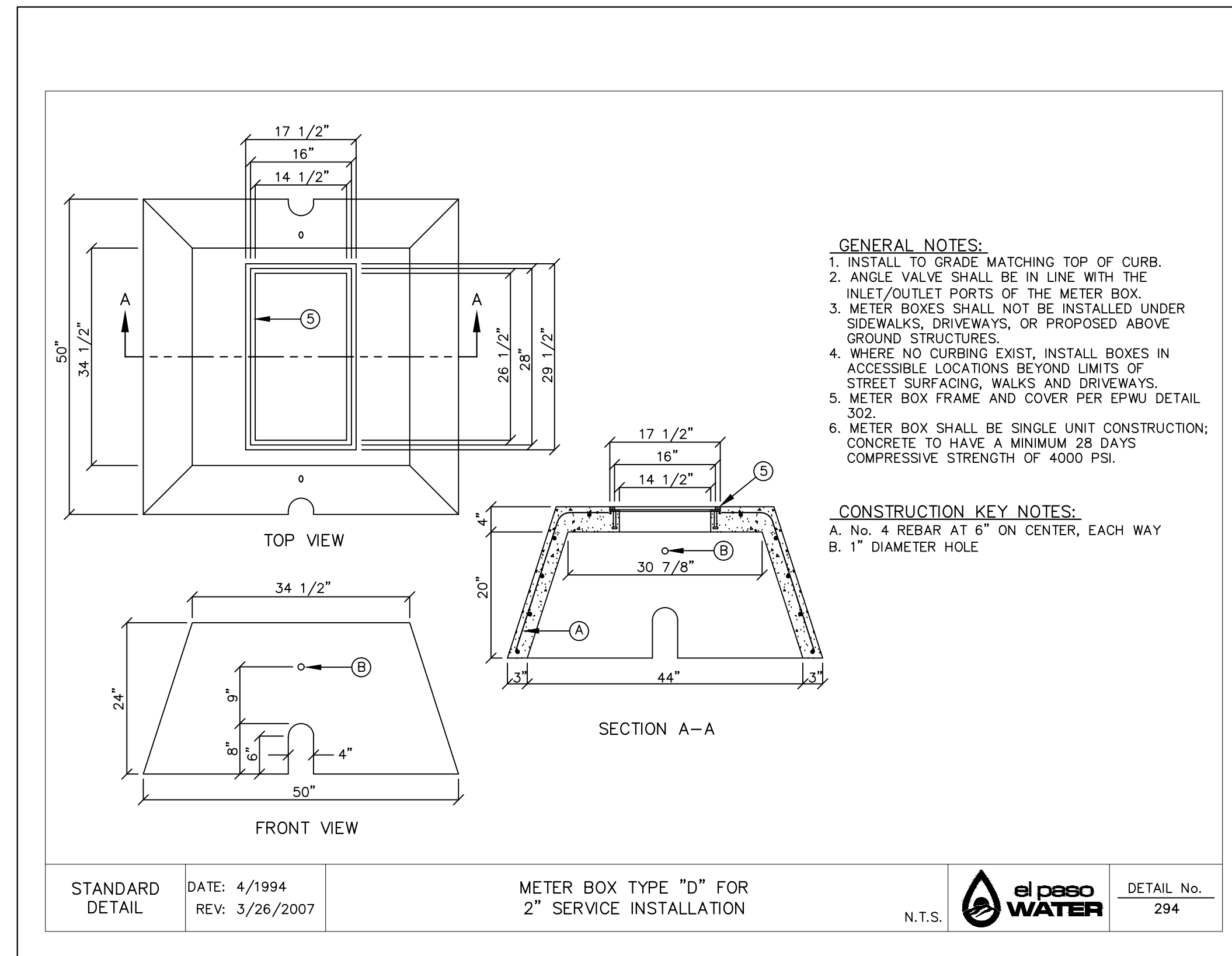
ENGINEER'S SEAL
 JORGE L. AZARATE
 8075
 07/01/2020

SCALE: AS SHOWN
 Horizontal: N/A
 Vertical: N/A
 Contour Interval: N/A
 DATE: JUNE 2020
 DESIGN BY: R.O.
 DRAWN BY: F.Z.
 CHKD. BY: J.L.A.
 APPVD. BY: J.L.A.
 JOB No. ... 2000-223

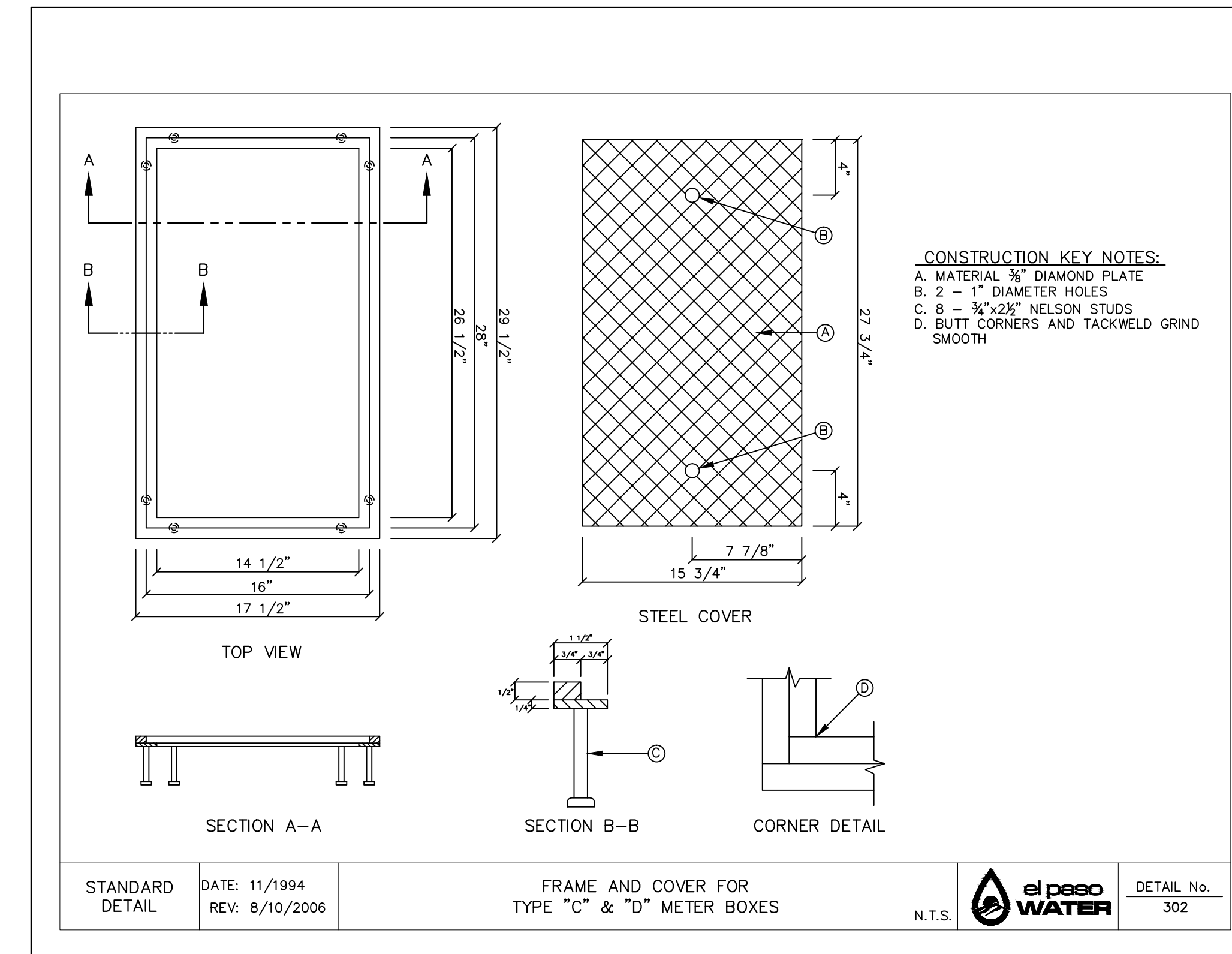
PROJECT TITLE
 HIDDEN VILLAGE
 UNIT TWO
 SUBDIVISION IMPROVEMENTS

SHEET TITLE
 WATER DETAILS
 (SHEET 4 OF 5)
 SHEET NO.

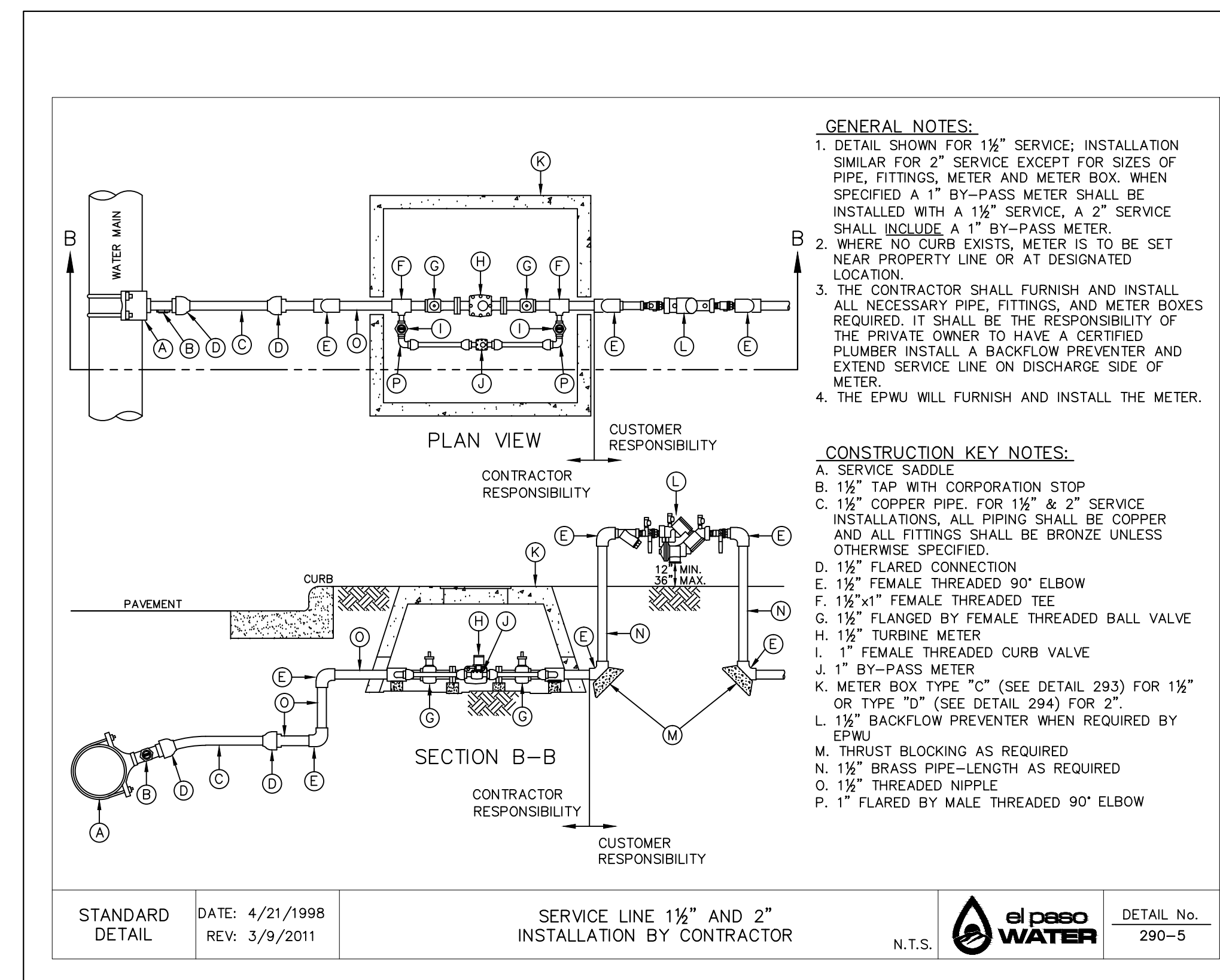
C12.5



1 METER BOX TYPE "D" FOR 2" SERVICE INSTALLATION SCALE: N.T.S.



2 FRAME AND COVER FOR TYPE "C" & "D" METER BOXES DETAIL SCALE: N.T.S.



3 SERVICE LINE 1 1/2" AND 2" INSTALLATION BY CONTRACTOR SCALE: N.T.S.



Oscar Villalobos 07/01/2020
BY DATE

REFERENCES - BENCHMARKS
CITY MONUMENT LOCATED AT THE CENTERLINE INTERSECTION OF CLYDESDALE DRIVE AND PALMINGO STREET, THE NORTH AMERICAN VERTICAL DATUM IS ELEVATION = 3939.32 (NAD 86).

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TEXAS REGISTERED ENGINEERING FIRM F-4564

el paso WATER

ENGINEER'S SEAL
JOSÉ L. AZARÁN
8075

SCALE: AS SHOWN
Horizontal: N/A
Vertical: N/A
Contour Interval: N/A
DATE: JUNE 2020
DESIGN BY: R.O.
DRAWN BY: F.Z.
CHKD. BY: F.Z.
APP'D. BY: J.L.A.
JOB No. ... 2000-223

PROJECT TITLE
**HIDDEN VILLAGE
UNIT TWO
SUBDIVISION IMPROVEMENTS**

SHEET TITLE
**WATER
DETAILS**

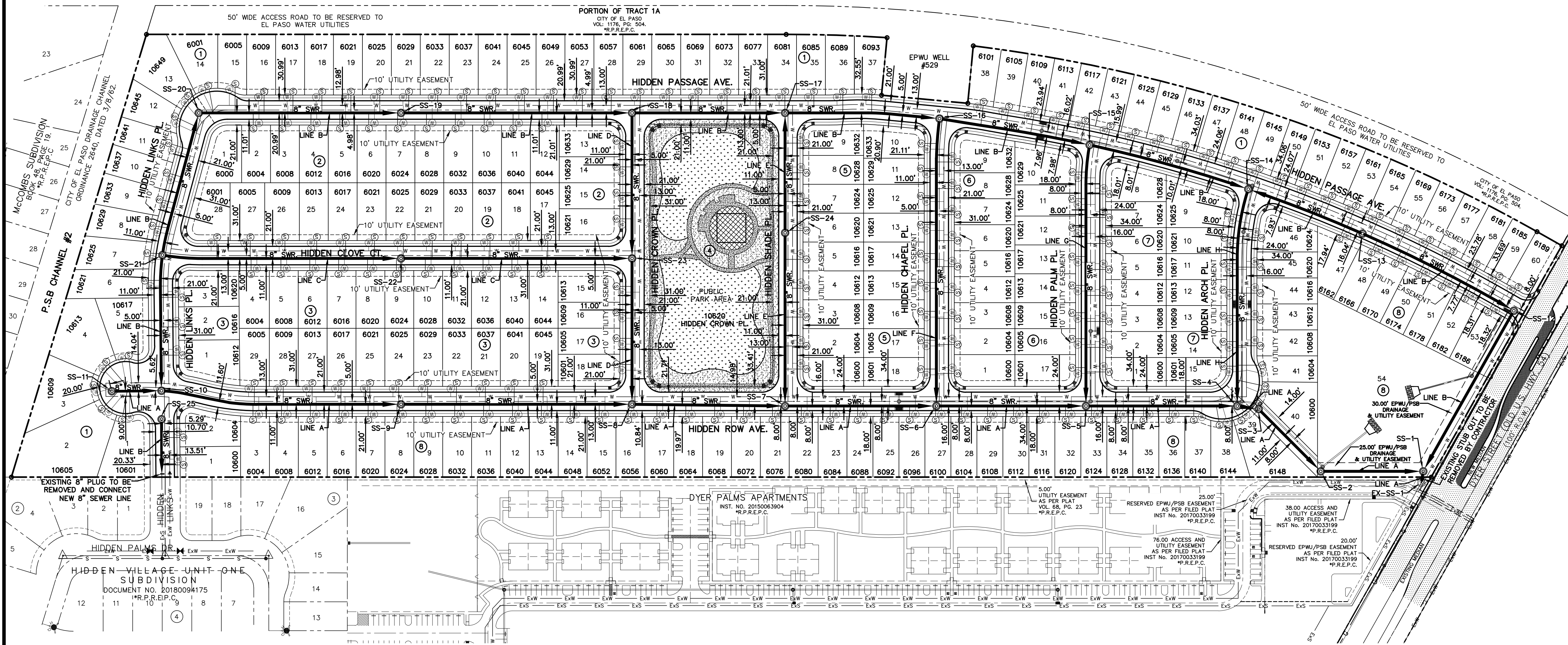
(SHEET 5 OF 5)
SHEET NO.

C12.6

SECTION 31, BLOCK 80, TOWNSHIP 1,
TEXAS AND PACIFIC RAILROAD COMPANY SURVEYS,
EL PASO COUNTY, TEXAS.

200' WIDE CITY OF EL PASO DRAINAGE CHANNEL #1, PARCEL A (ORDINANCE # 2040)
(AS SHOWN ON THE EL PASO COUNTY PLAT OF
SECTION 31, BLOCK 80, TOWNSHIP 1, T&P RR CO. SURVEYS)
NO RECORDS PROVIDED

P.S.B CHANNEL #1



WASTEWATER QUANTITIES			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
1	8" PVC SDR35 GRAVITY LINE	8241	LINEAR FEET
2	8" PVC C-900, CL150	453	LINEAR FEET
3	16" STEEL CASING	140	LINEAR FEET
4	STANDARD WASTEWATER MANHOLE	25	EACH
5	4" WASTEWATER SERVICE CONNECTION	220	EACH



Oscar Villalobos 07/01/2020
BY DATE

CONTRACTOR SHALL VERIFY DEPTH AND LOCATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION.

SANITARY SEWER INDEX MAP
SCALE: 1" = 100'

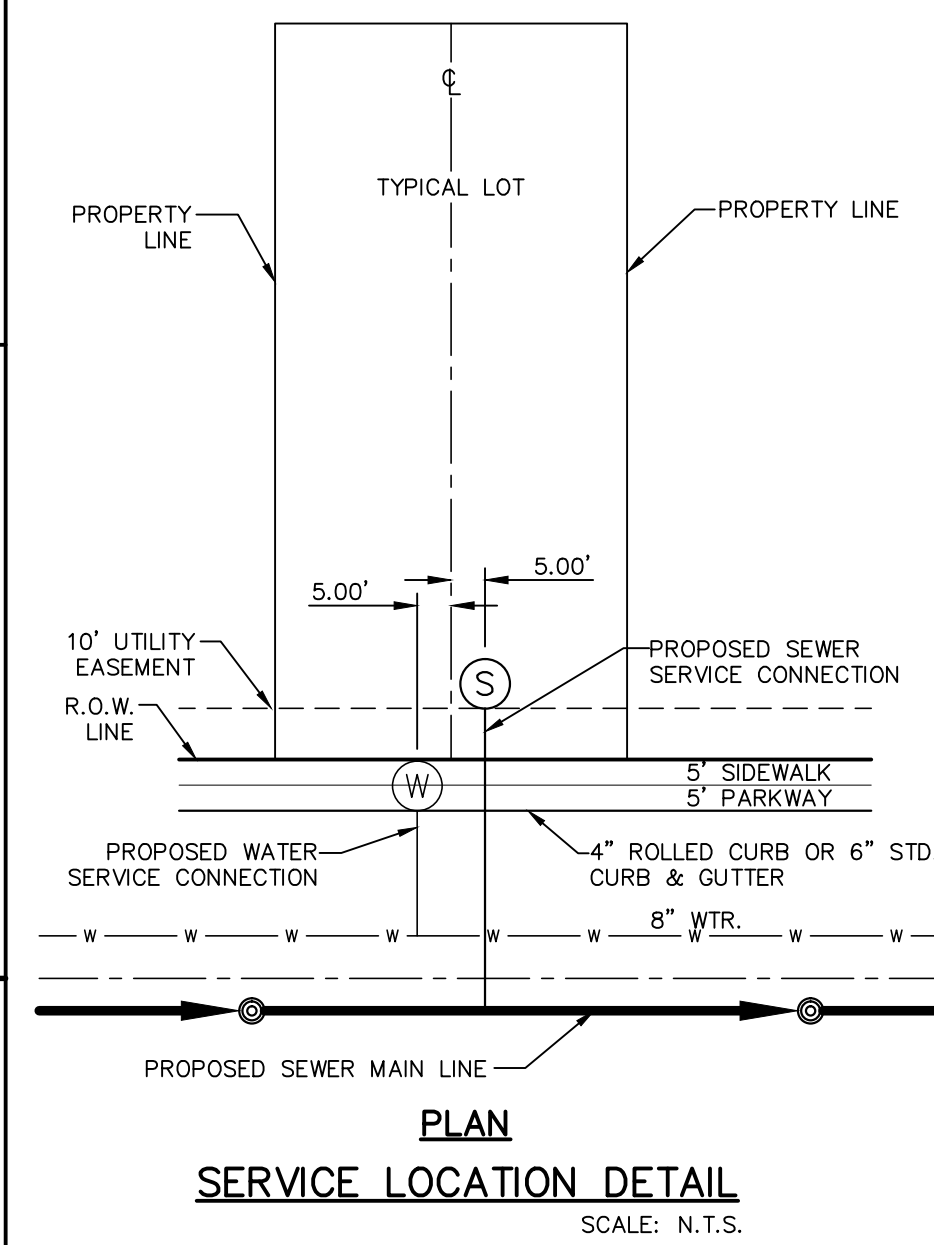
INDEX

SHEET NO.	DESCRIPTION
C13.1	HIDDEN VILLAGE UNIT TWO LEGEND INDEX / GENERAL INFORMATION
C13.2	LINE A
C13.3	LINE A, D, E, & H
C13.4	LINE B
C13.5	LINE B & C
C13.6	LINE F & G
C13.7	SANITARY SEWER DETAILS
C13.8	SANITARY SEWER DETAILS
C13.9	SANITARY SEWER DETAILS

- NOTES:**
- ALL LOTS SHALL BE PROVIDED WITH ONE SERVICE CONNECTION TO BE INSTALLED AT THE LOCATION AS SHOWN ON THE SERVICE LOCATION DETAIL.
 - ALL SANITARY SEWER PIPES SHALL BE PVC, SDR 35, (D 3034), UNLESS OTHERWISE SHOWN, AS REQUIRED BY THE EPWU/PSB RULES AND REGULATIONS AND DESIGN STANDARDS.
 - REFERENCE SANITARY SEWER DETAILS FOR SEWER CROSSINGS AT STORM SEWER.

LEGEND

SYMBOL	DESCRIPTION
	PROPOSED STORM SEWER
	EXISTING WATER LINE
	EXISTING SEWER LINE
	SUBD. BOUNDARY LINE
	PROPERTY LINE
	CENTER LINE
	PROPOSED WATER LINE
	PROPOSED SEWER LINE (PLAN VIEW)
	PROPOSED SEWER LINE (PROFILE VIEW)
	PROPOSED SEWER MANHOLE (PLAN VIEW)
	PROPOSED SERVICE CONNECTION (PLAN VIEW)
	EXISTING MANHOLE (PLAN VIEW)
	PROPOSED MANHOLE (PROFILE VIEW)
	EXISTING MANHOLE (PROFILE VIEW)



GENERAL NOTES

- UNLESS OTHERWISE SHOWN ON THE DRAWINGS, THE PROPOSED SEWER MAINS AND SEWER MANHOLES SHALL BE INSTALLED NO LESS THAN TEN (10') FEET AWAY FROM EXISTING WATER LINE. SEPARATIONS DISTANCES SHALL FOLLOW TCEQ STANDARD REQUIREMENTS (§290.44)
- THE INTENT OF THE OWNER IS TO HAVE THE SANITARY SEWER PIPELINES INSTALLED TO SUCH A DEPTH THAT THEY WILL HAVE AT LEAST FORTY-EIGHT (48") INCHES OF COVER BELOW PROPOSED GROUND AT ALL LOCATIONS. THE PIPELINES SHALL HAVE NO DIPS, SAGS OR HUMPS OR OTHER IRREGULARITIES IN VERTICAL ALIGNMENT. CONSIDERING UTILITIES AND OTHER CONDITIONS, VARIANCE FROM GRADE PROFILE IS NOT RECOMMENDED IF OTHER EXISTING UTILITIES OR OBSTRUCTIONS ARE ENCOUNTERED DURING THE WORK. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO INSTALLING THE SEWER PIPELINE SO THAT AN ACCEPTABLE PROFILE CAN BE ESTABLISHED PRIOR TO INSTALLATION OF THE PIPELINE.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD LOCATE ALL UNDERGROUND UTILITIES, SHOWN OR NOT SHOWN IN THE PLANS, AND COORDINATE HIS WORK WITH ALL UTILITY COMPANIES, EL PASO WATER UTILITIES AND CITY OF EL PASO PRIOR TO CONSTRUCTION. ALL EXISTING UTILITY DEPTHS ARE UNKNOWN. THE CONTRACTOR SHALL BE ULTIMATELY RESPONSIBLE FOR ACQUIRING FIELD DEPTHS OF ALL UTILITIES WITH THE PROJECT AREAS.
- TRENCH SAFETY REQUIREMENTS SHALL COMPLY WITH CURRENT OSHA REGULATIONS.
- AS-BUILT STATIONING, OFFSET FROM R.O.W. AND INVERT ELEVATIONS SHALL BE ACCURATELY RECORDED BY THE CONTRACTOR ON A CLEAN SET OF PLANS FOR EACH MANHOLE, SERVICE CONNECTION AND/OR STUB-OUT, WITH RESPECT TO THE APPROPRIATE PROJECT CONTROL POINT.
- THE EL PASO WATER UTILITIES AND CITY OF EL PASO MUST BE NOTIFIED FORTY-EIGHT (48) HOURS PRIOR TO COMMENCING ANY WORK IN AREAS WITHIN THEIR JURISDICTION. A COPY OF ALL FIELD SOIL DENSITY TESTS WITHIN THEIR RESPECTIVE R.O.W. SHALL BE FORWARDED TO THE DEVELOPER'S ENGINEER AND THE DEVELOPER BY THE CONTRACTOR.
- EXISTING STREETS, DRIVEWAYS AND ALL OTHER MISCELLANEOUS STRUCTURES DAMAGE OR REMOVED BY CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO ORIGINAL OR BETTER THAN ORIGINAL CONDITION.
- CONSTRUCTION OF THE PUBLIC WATER AND SEWER SYSTEM INCLUDING MATERIALS AND TESTING SHALL CONFIRM TO EPWU-PSB STANDARD SPECIFICATIONS FOR THE INSTALLATION OF WATER MAINS, SEWER MAINS AND RELATED APPURTENANCES.

GENERAL UTILITIES:
TEXAS EXCAVATION SAFETY SERVICE
11884 GREENVILLE AVENUE,
DALLAS, TX. 75243
(800) 344-8377

ENGINEER:
CEA GROUP
813 N. KANSAS ST., STE. 300
EL PASO, TX. 79902
(915) 544-5232
MR. JORGE L. AZCARATE, P.E.

FIBER OPTICS:
U.S. SPRINT
151 N. BOONE ST.
EL PASO, TX. 79905
(915) 534-7910

FIBER OPTICS:
MCI TELECOMMUNICATIONS CORP.
4045 DONIPHAN PARK CIRCLE
EL PASO, TX. 79902
(915) 542-2770 EXT. 201

WATER & SEWER:
EL PASO WATER UTILITIES
1154 HAWKINS BOULEVARD
EL PASO, TX. 79961
(915) 594-5530

ELECTRIC:
EL PASO ELECTRIC CO.
501 W. SAN ANTONIO ST.
EL PASO, TX. 79902
(915) 544-2076
MR. FRANK VIGEL (DISTRIBUTION)

EL PASO STREETS:
EL PASO STREETS DEPARTMENT,
7969 SAN PABLO DR.
EL PASO, TX. 79907
(915) 621-6750

CABLE TELEVISION:
TIME WARNER COMMUNICATIONS
7010 AIRPORT ROAD
EL PASO, TX. 79906
(915) 772-1123

TELEPHONE:
SBC
11200 PELICANO
EL PASO, TX. 79935
(915) 595-5151

FIBER OPTICS:
AT&T
P.O. BOX 1650
EL PASO, TX. 79949
(800) 852-3786

RESIDENTIAL GAS LINES:
TEXAS GAS SERVICE
4700 POLLARD ST.
EL PASO, TX. 79930
(915) 680-7218

WARNING!
BEFORE YOU DIG
CALL 811
FOR FIELD LOCATING EXISTING UTILITIES

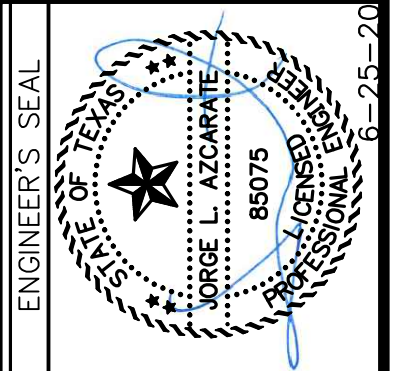
REFERENCES - BENCHMARKS

CITY MONUMENT LOCATED AT THE CENTERLINE INTERSECTION OF CLYDESDALE DRIVE AND PALMOMINO STREET, ELEVATION = 9939.32 (NAD 83)

DATE	REVISIONS	BY

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Suite 300
El Paso, TX 79902
915.544.5232
www.ceagroup.net

CEA GROUP
TEXAS REGISTERED ENGINEERING FIRM F-4564

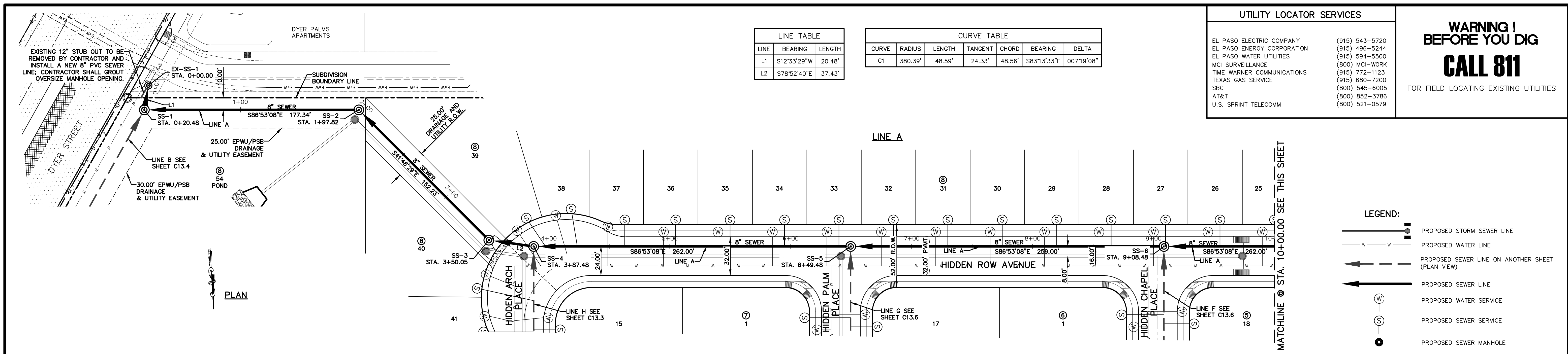


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Vertical: N/A
Contour Interval: N/A
DATE: JUNE 2020
DESIGN BY: R.O.
DRAWN BY: F.Z.
CHKD. BY: J.L.A.
APPVD. BY: J.L.A.
JOB No.: 2000-223

PROJECT TITLE
HIDDEN VILLAGE UNIT TWO SUBDIVISION IMPROVEMENTS

SHEET TITLE
SANITARY SEWER INDEX/GENERAL INFORMATION

SHEET NO.
C13.1



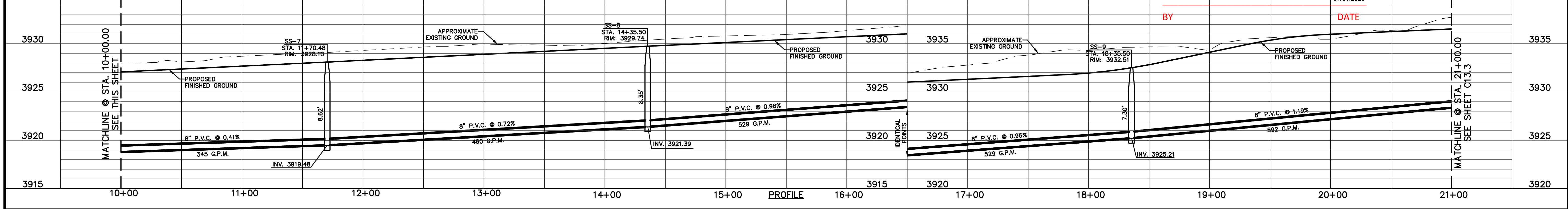
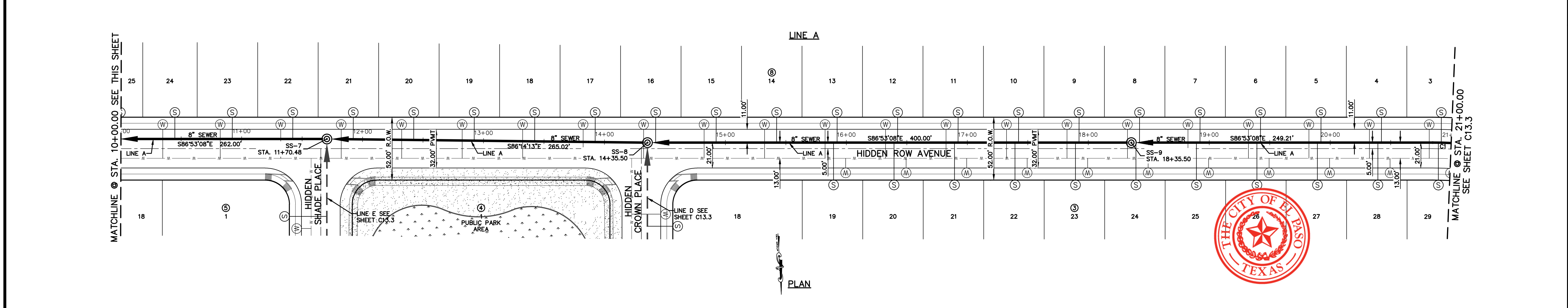
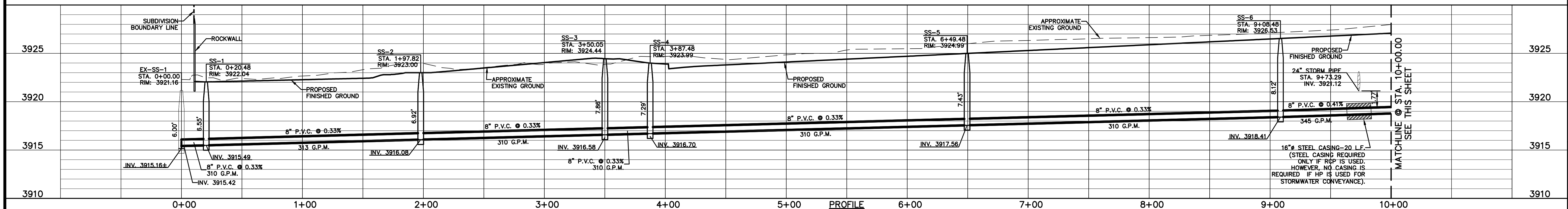
LINE TABLE		
LINE	BEARING	LENGTH
L1	S12°33'29"W	20.48'
L2	S78°52'40"E	37.43'

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	380.39'	48.59'	24.33'	48.56'	S83°13'33"E	007°19'08"

UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5500
MCI SURVEILLANCE	(800) MCI-WORK
TIME WARNER COMMUNICATIONS	(915) 772-1123
TEXAS GAS SERVICE	(915) 680-7200
SBC	(800) 945-6005
AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579

WARNING!
BEFORE YOU DIG
CALL 811
FOR FIELD LOCATING EXISTING UTILITIES

- LEGEND:**
- PROPOSED STORM SEWER LINE
 - PROPOSED WATER LINE
 - PROPOSED SEWER LINE ON ANOTHER SHEET (PLAN VIEW)
 - PROPOSED SEWER LINE
 - PROPOSED WATER SERVICE
 - PROPOSED SEWER SERVICE
 - PROPOSED SEWER MANHOLE



REFERENCES - BENCHMARKS

CITY MONUMENT LOCATED AT THE CENTERLINE INTERSECTION OF CLYDEDALE DRIVE AND PALOMINO STREET, THE NORTH AMERICAN VERTICAL DATUM IS ELEVATION = 3939.32 (NAD 83).

813 N. Kansas St.
Suite 300
El Paso, TX 79902
915.544.5232

CEA GROUP
TEXAS REGISTERED ENGINEERING FIRM F-4564

ENGINEER'S SEAL

SCALE: Horizontal: 1"=40'
Vertical: 1"=5'
Contour Interval: N/A

DATE: JUNE 2020
DESIGN BY: R.O.
DRAWN BY: F.Z.
CHKD. BY: J.L.A.
APP'D. BY: J.L.A.

JOB No. ... 2000-223

PROJECT TITLE

**HIDDEN VILLAGE
UNIT TWO
SUBDIVISION IMPROVEMENTS**

SHEET TITLE

**SANITARY SEWER
PLAN & PROFILE
LINE A**

SHEET NO.

C13.2



CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	380.39'	48.59'	24.33'	48.56'	S83°13'33"E	007°19'08"
C2	2575.74'	83.78'	41.89'	83.77'	S75°30'34"E	001°51'49"
C3	378.51'	35.26'	17.64'	35.24'	N80°24'22"W	005°20'12"
C4	383.00'	121.40'	61.21'	120.89'	S12°10'14"W	018°09'39"

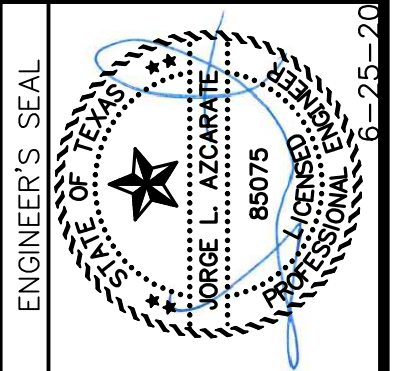
UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5500
MCI SURVEILLANCE	(800) MCI-WORK
TIME WARNER COMMUNICATIONS	(915) 772-1123
TEXAS GAS SERVICE	(915) 680-7200
SBC	(800) 945-6005
AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579

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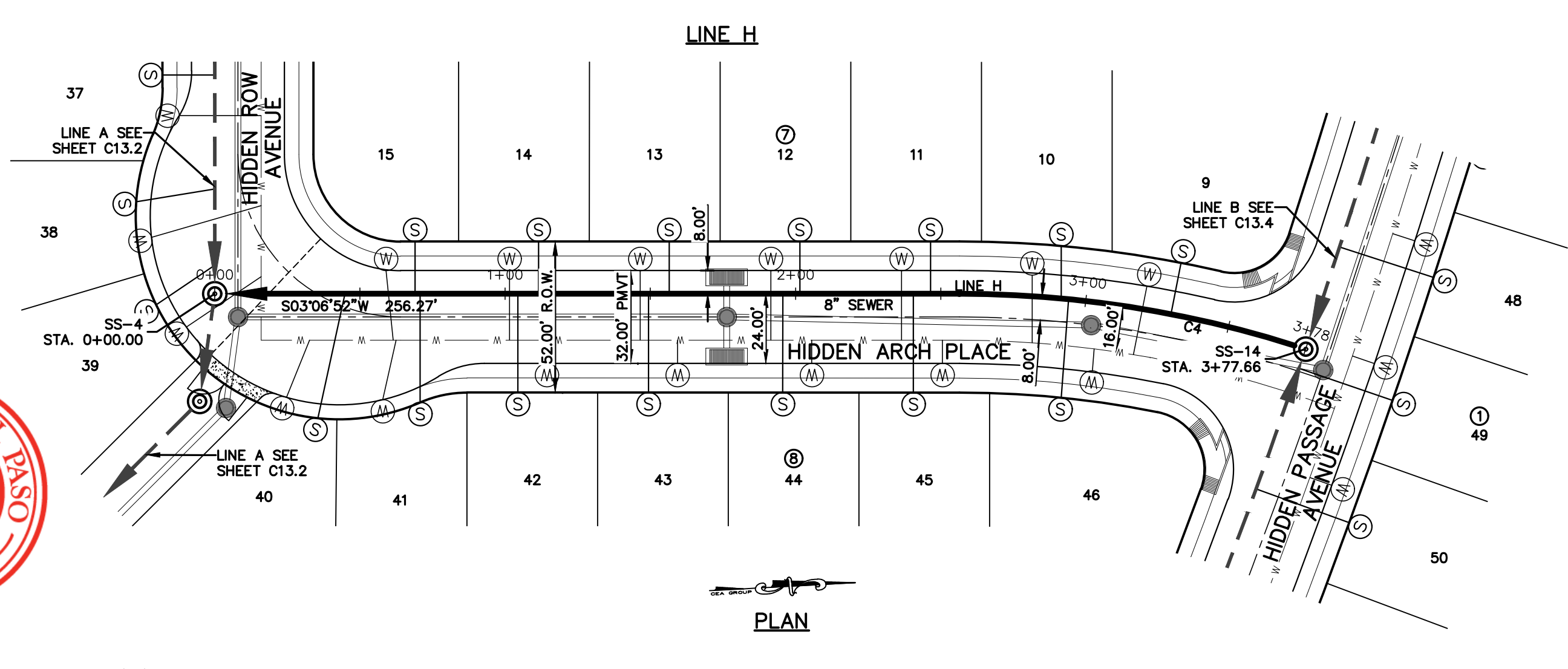
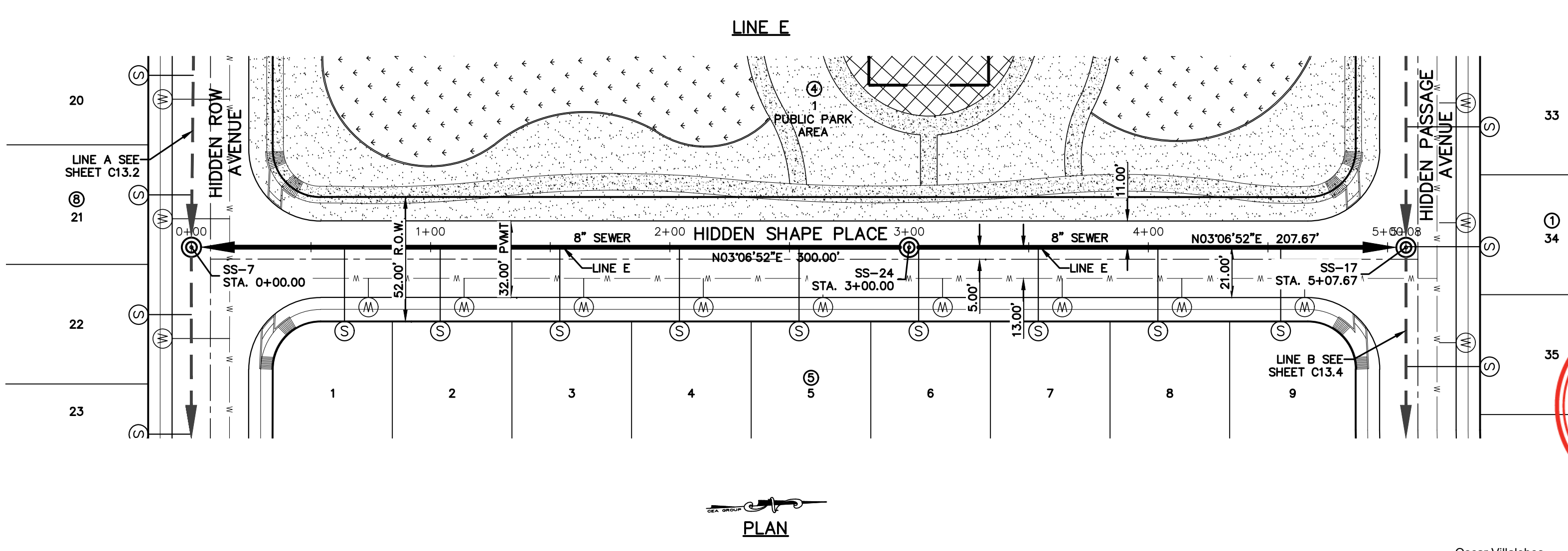
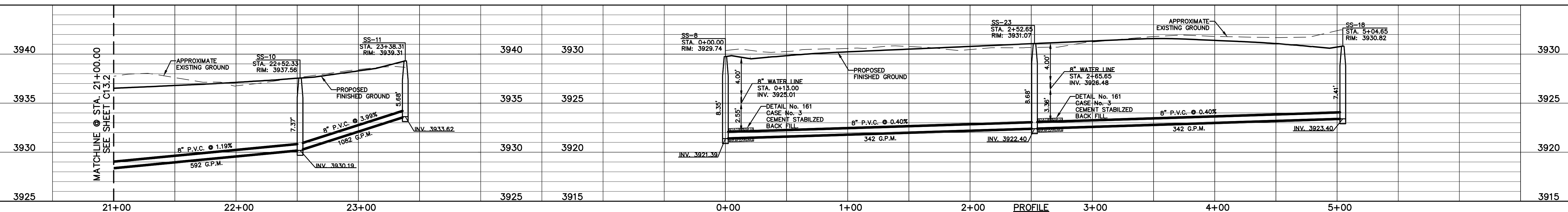
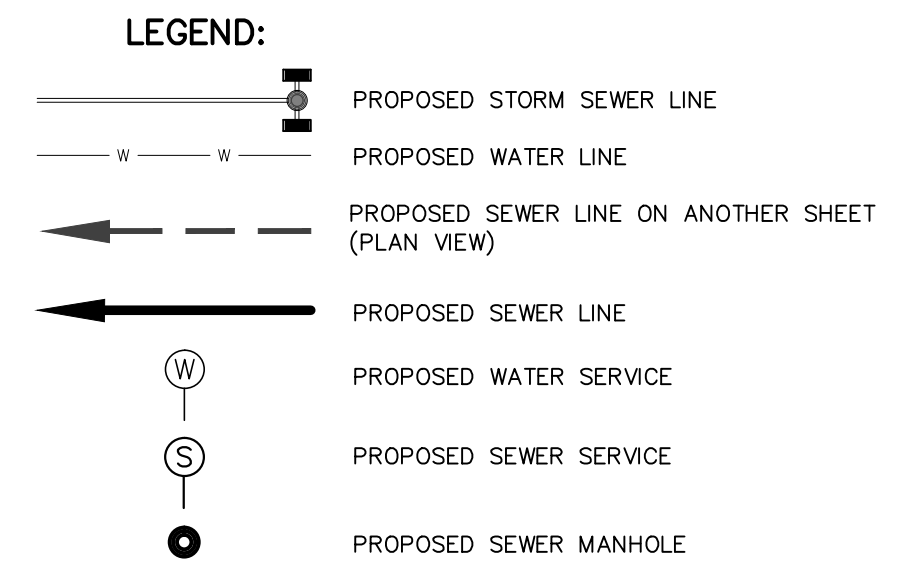
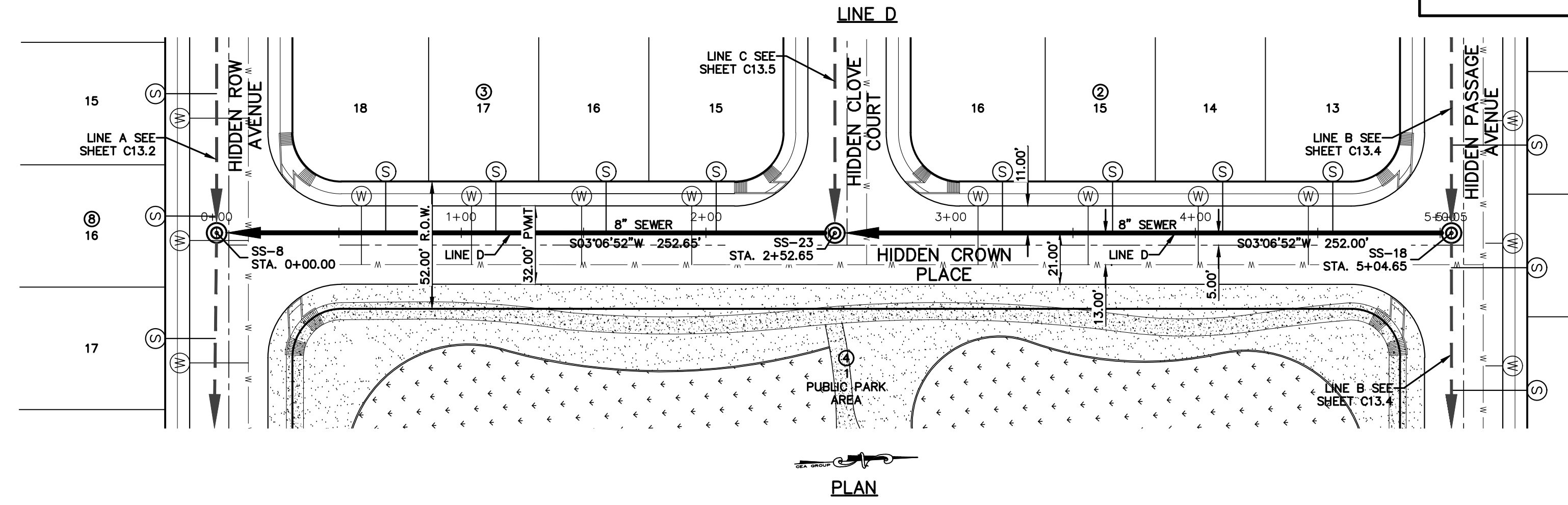
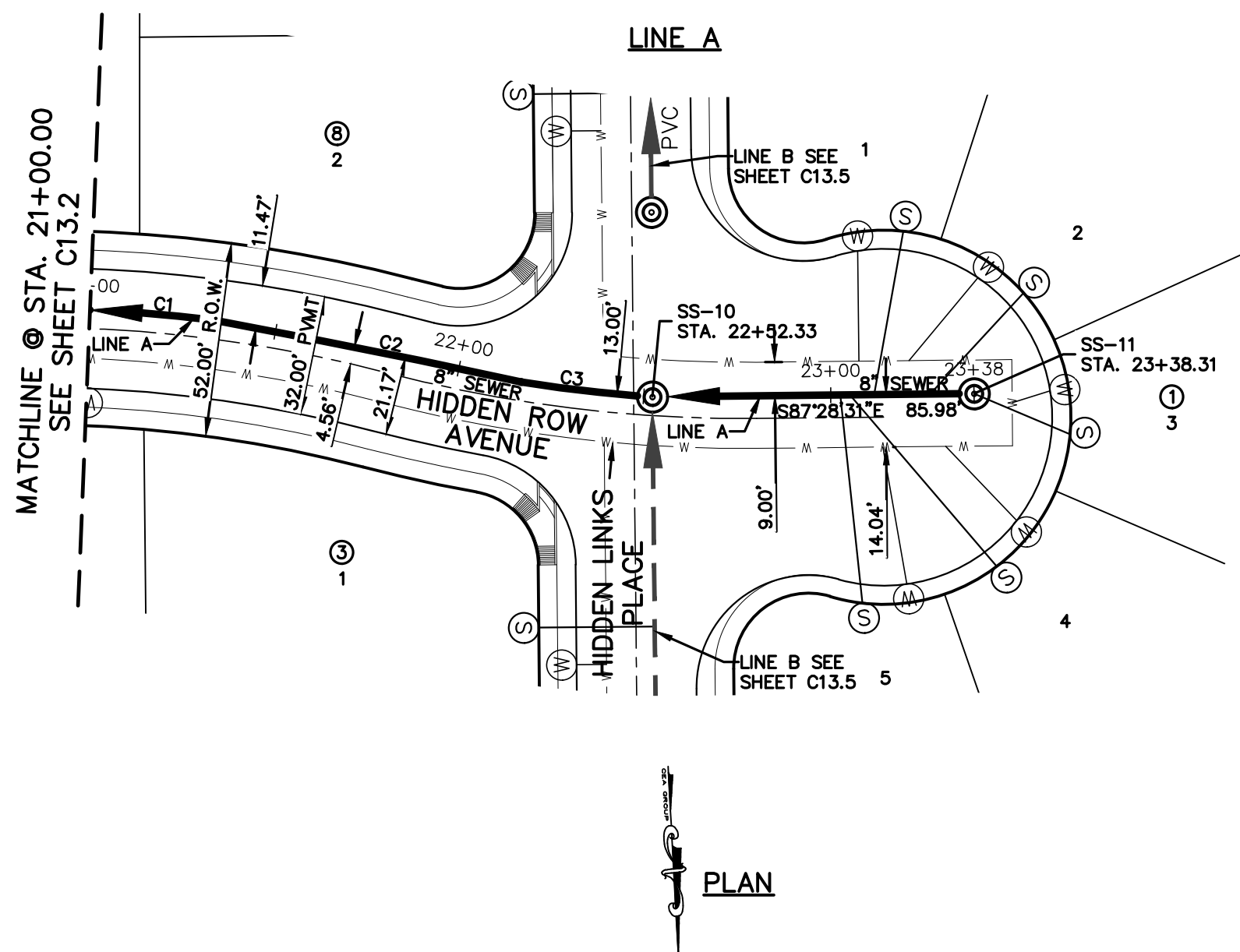
DATE	REVISIONS	BY

REFERENCES - BENCHMARKS
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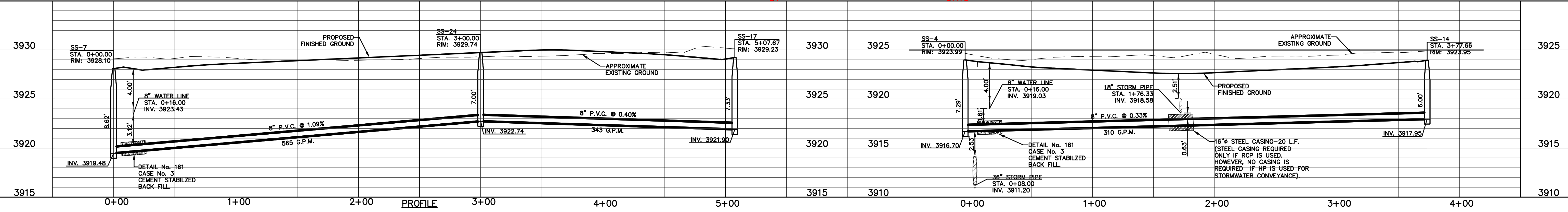
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SCALE: Horizontal: 1"=40'
Vertical: 1"=5'
Contour Interval: N/A
DATE: JUNE 2020
DESIGN BY: R.O.
DRAWN BY: F.Z.
CHKD. BY: F.Z.
APPVD. BY: J.L.A.
JOB No. ...2000-223



Oscar Villalobos 07/01/2020
BY DATE

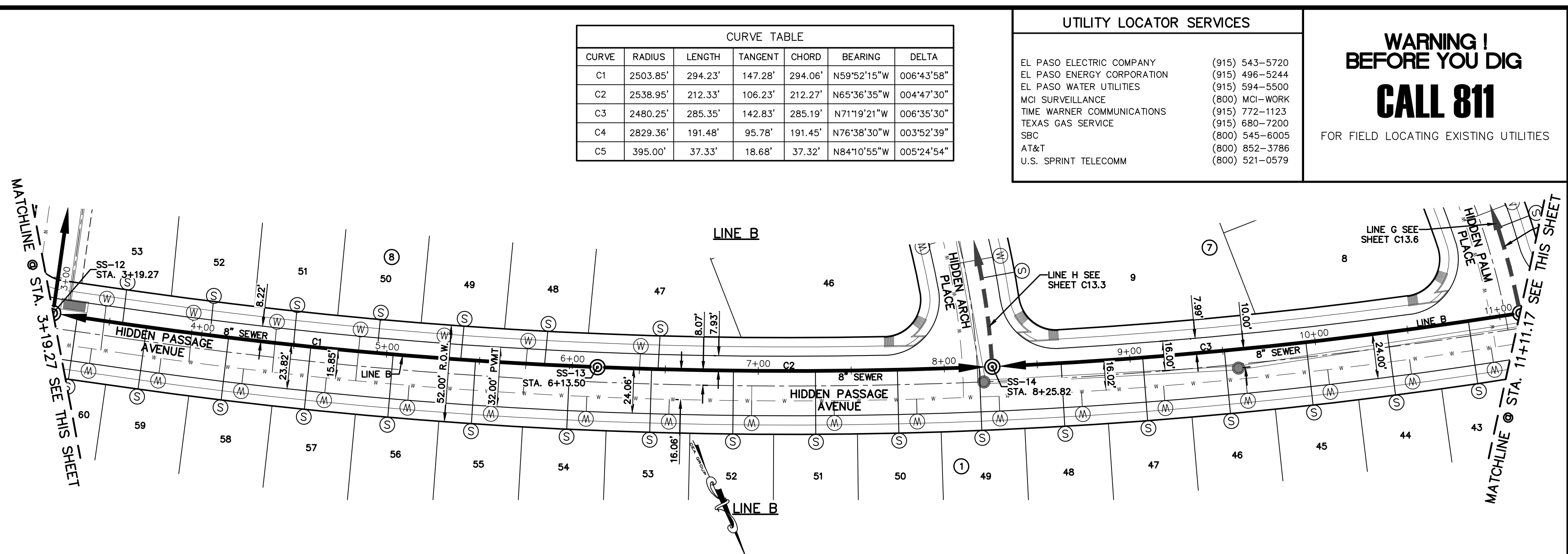
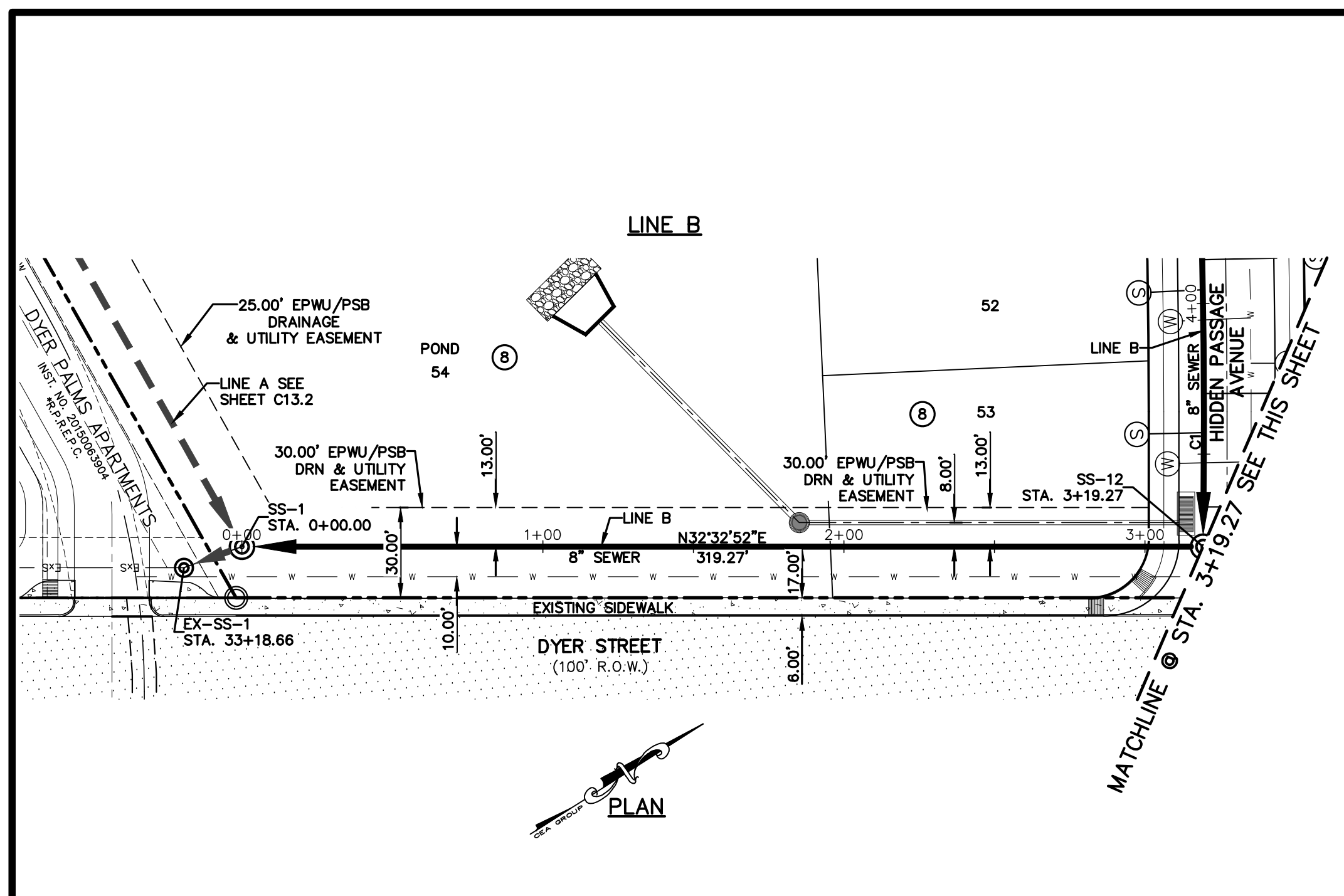


PROJECT TITLE
**HIDDEN VILLAGE
UNIT TWO
SUBDIVISION IMPROVEMENTS**

SHEET TITLE
**SANITARY SEWER
PLAN & PROFILE
LINE A, D, E & H**

SHEET NO.

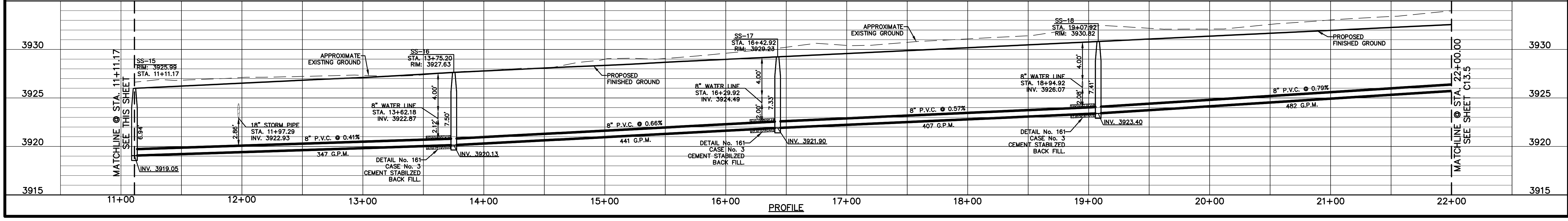
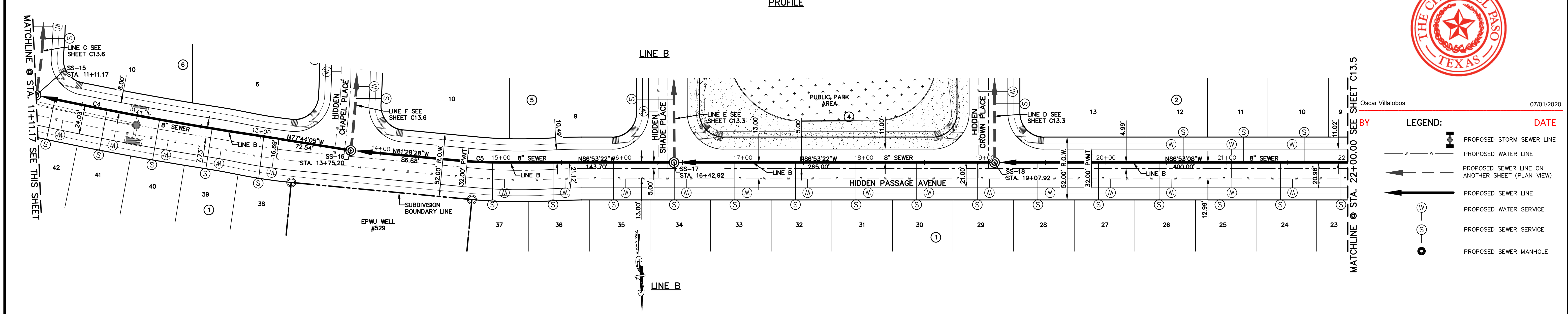
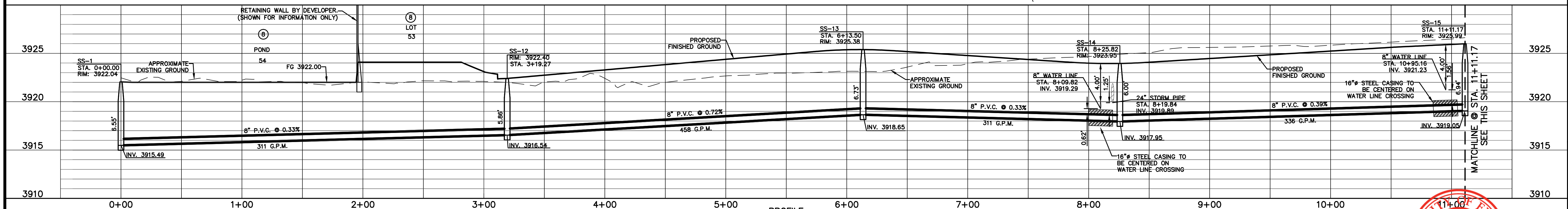
C13.3



CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	2503.85'	294.23'	147.28'	294.06'	N59°52'15"W	006°43'58"
C2	2538.95'	212.33'	106.23'	212.27'	N65°36'35"W	004°47'30"
C3	2480.25'	285.35'	142.83'	285.19'	N71°19'21"W	006°35'30"
C4	2829.36'	191.48'	95.78'	191.45'	N76°38'30"W	003°52'39"
C5	395.00'	37.33'	18.68'	37.32'	N84°10'55"W	005°24'54"

UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5500
MCI SURVEILLANCE	(800) MCI-WORK
TIME WARNER COMMUNICATIONS	(915) 772-1123
TEXAS GAS SERVICE	(915) 680-7200
SBC	(800) 945-6005
AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579

WARNING!
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 FOR FIELD LOCATING EXISTING UTILITIES



LEGEND:

- PROPOSED STORM SEWER LINE
- PROPOSED WATER LINE
- PROPOSED SEWER LINE ON ANOTHER SHEET (PLAN VIEW)
- PROPOSED SEWER LINE
- PROPOSED WATER SERVICE
- PROPOSED SEWER SERVICE
- PROPOSED SEWER MANHOLE

Oscar Villalobos 07/01/2020

REFERENCES - BENCHMARKS
 CITY MONUMENT LOCATED AT THE CENTERLINE INTERSECTION OF CLYDEDALE DRIVE AND PALOMINO STREET, THE NORTH AMERICAN VERTICAL DATUM IS ELEVATION = 3939.32 (NAD 83).

813 N. Kansas St.
 Suite 300
 El Paso, TX 79902
 915.544.5232
 www.ceagroup.net
 TEXAS REGISTERED ENGINEERING FIRM F-4564

ENGINEER'S SEAL
 OSCAR VILLALOBOS
 LICENSE NO. 80075
 STATE OF TEXAS

SCALE
 Horizontal: 1"=40'
 Vertical: 1"=5'
 Contour Interval: N/A

DATE: JUNE 2020
 DESIGN BY: R.O.
 DRAWN BY: F.Z.
 CHKD. BY: F.Z.
 APPVD. BY: J.L.A.
 JOB No. ... 2000-223

PROJECT TITLE
**HIDDEN VILLAGE
 UNIT TWO
 SUBDIVISION IMPROVEMENTS**

SHEET TITLE
**SANITARY SEWER
 PLAN & PROFILE
 LINE B**

SHEET NO.
C13.4

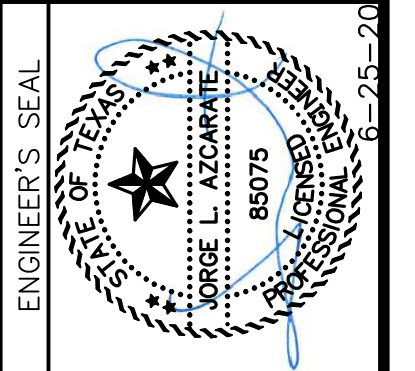
CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C6	380.00'	47.20'	23.63'	47.17'	S14°33'07"W	007°07'01"
C7	380.00'	56.17'	28.13'	56.12'	S06°45'33"W	008°28'08"
C8	401.64'	69.24'	34.71'	69.15'	S82°00'11"E	009°52'39"

UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5500
MCI SURVEILLANCE	(800) MCI-WORK
TIME WARNER COMMUNICATIONS	(915) 772-1123
TEXAS GAS SERVICE	(915) 680-7200
SBC	(800) 945-6005
AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579

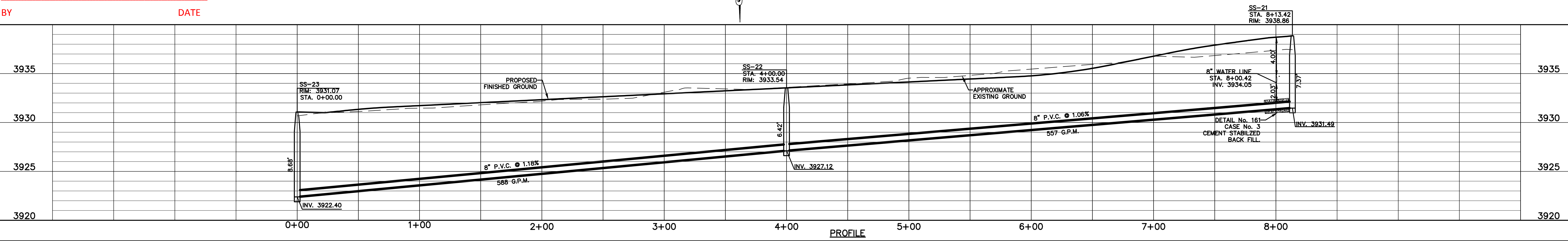
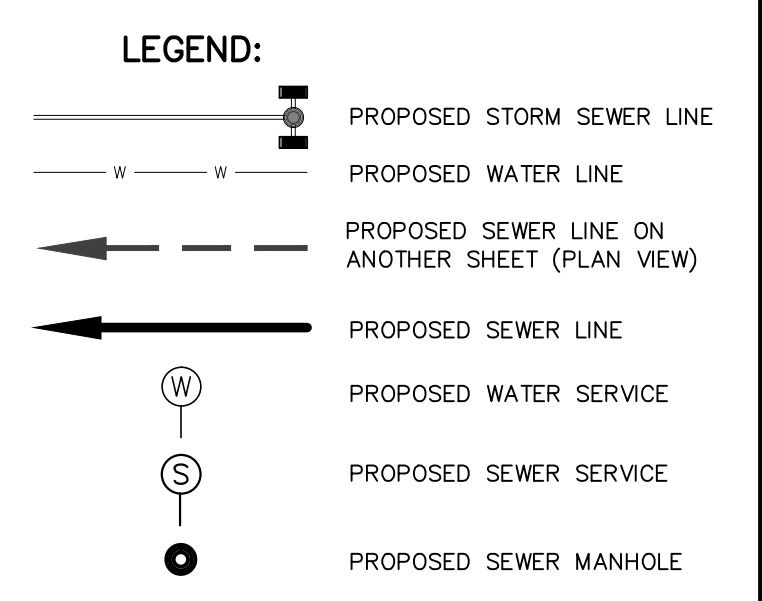
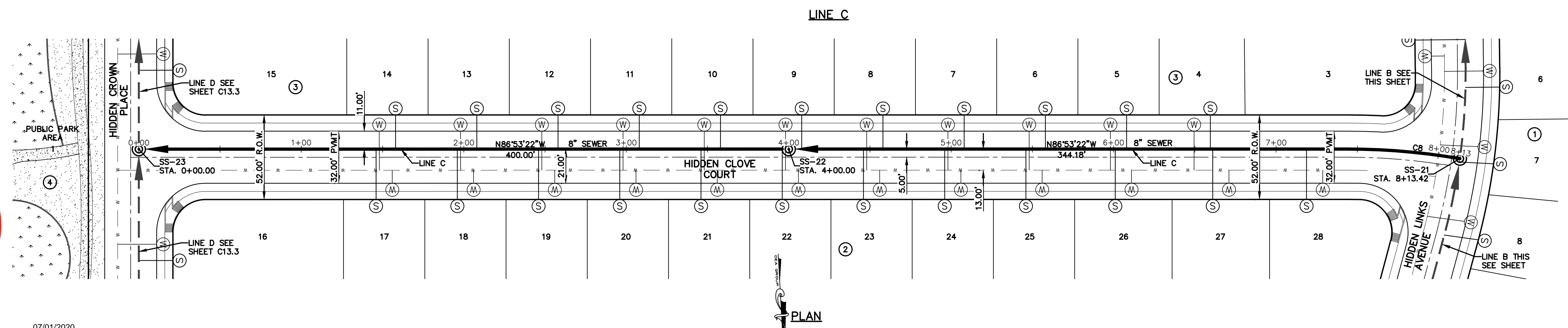
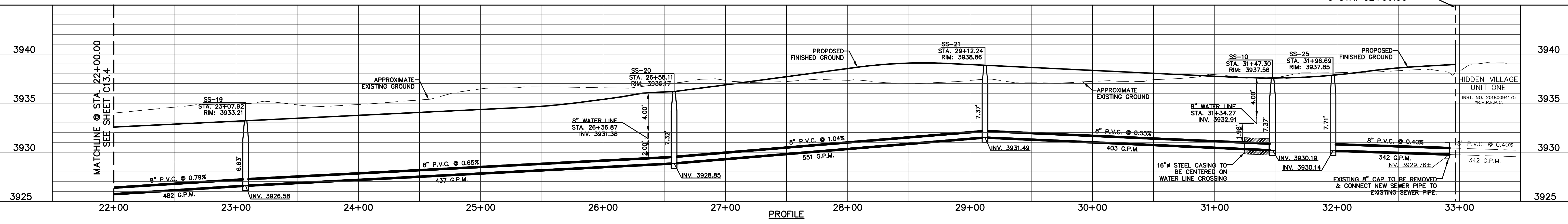
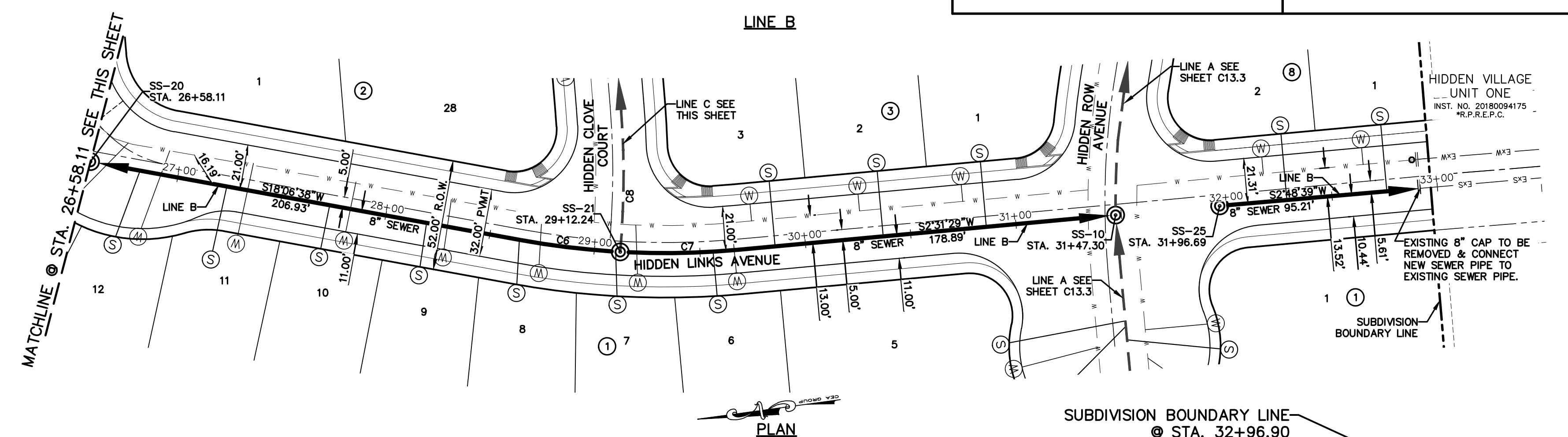
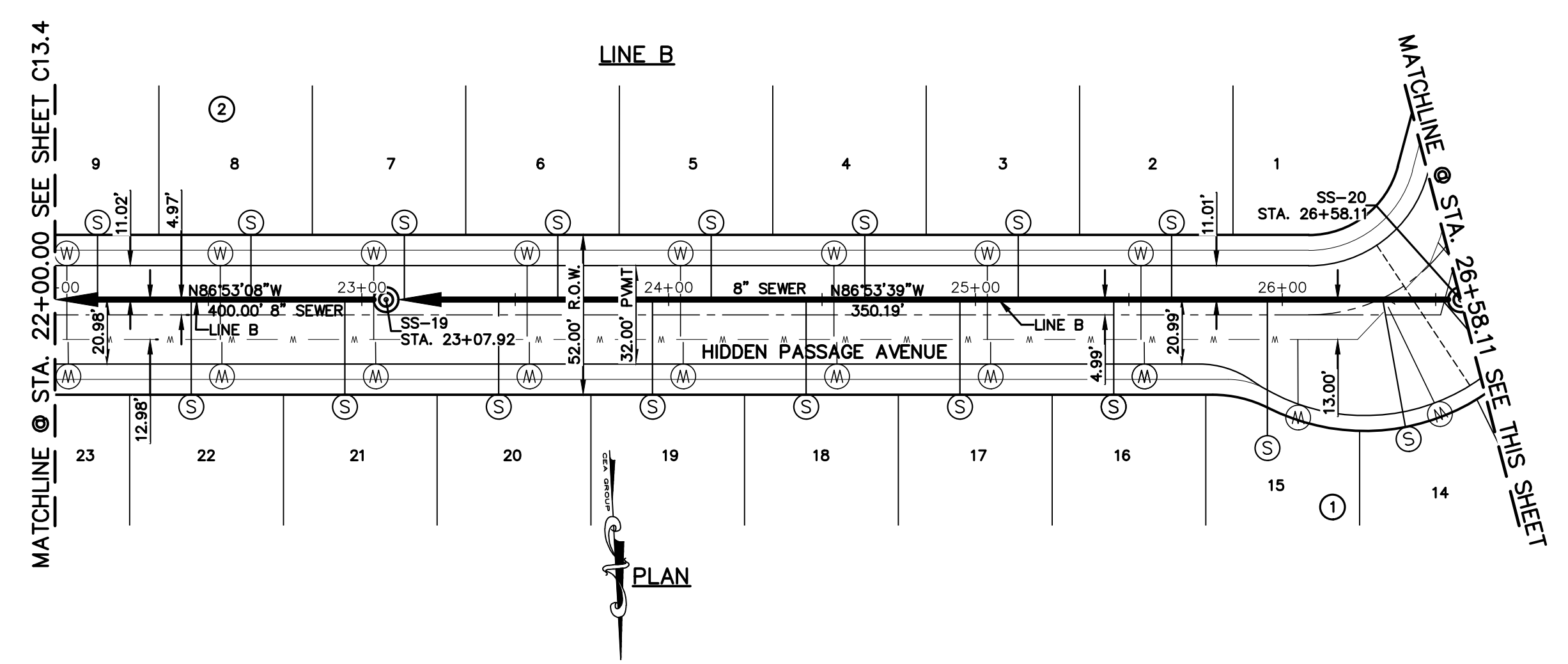
WARNING!
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DATE	REVISIONS	BY

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SCALE: 1"=40'
Horizontal: 1"=5'
Vertical: 1"=5'
Contour Interval: N/A
DATE: JUNE 2020
DESIGN BY: R.O.
DRAWN BY: F.Z.
CHKD. BY: F.Z.
APPVD. BY: J.L.A.
JOB No.: 2000-223



PROJECT TITLE
**HIDDEN VILLAGE
UNIT TWO
SUBDIVISION IMPROVEMENTS**

SHEET TITLE
**SANITARY SEWER
PLAN & PROFILE
LINE B & C**

SHEET NO.
C13.5

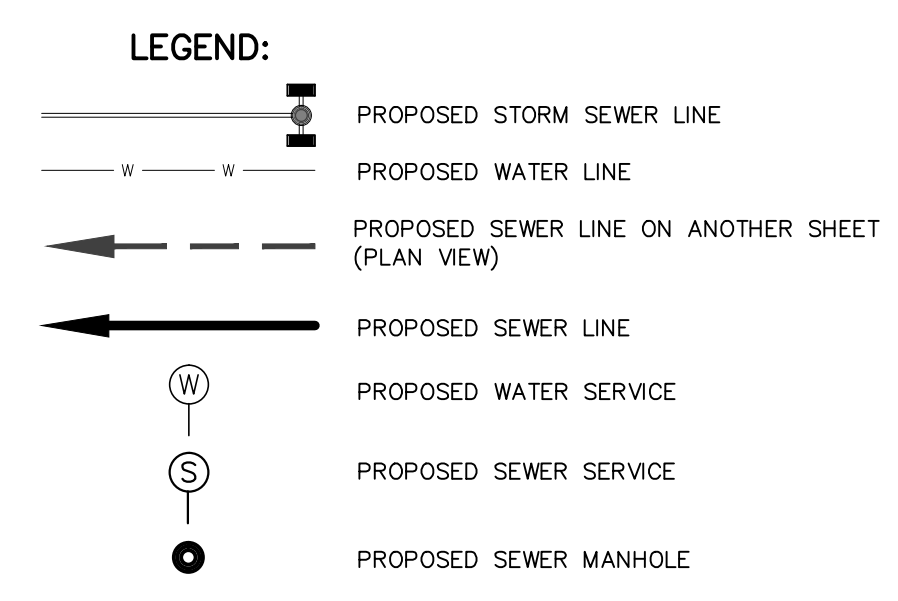
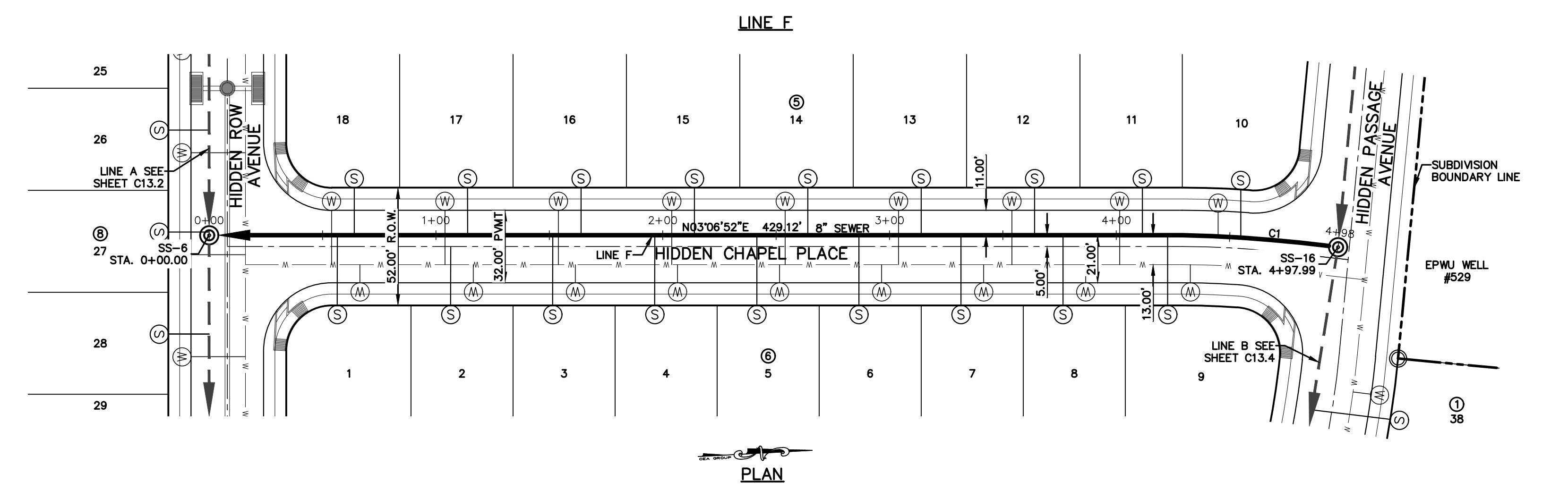


BY: Oscar Villalobos
DATE: 07/01/2020

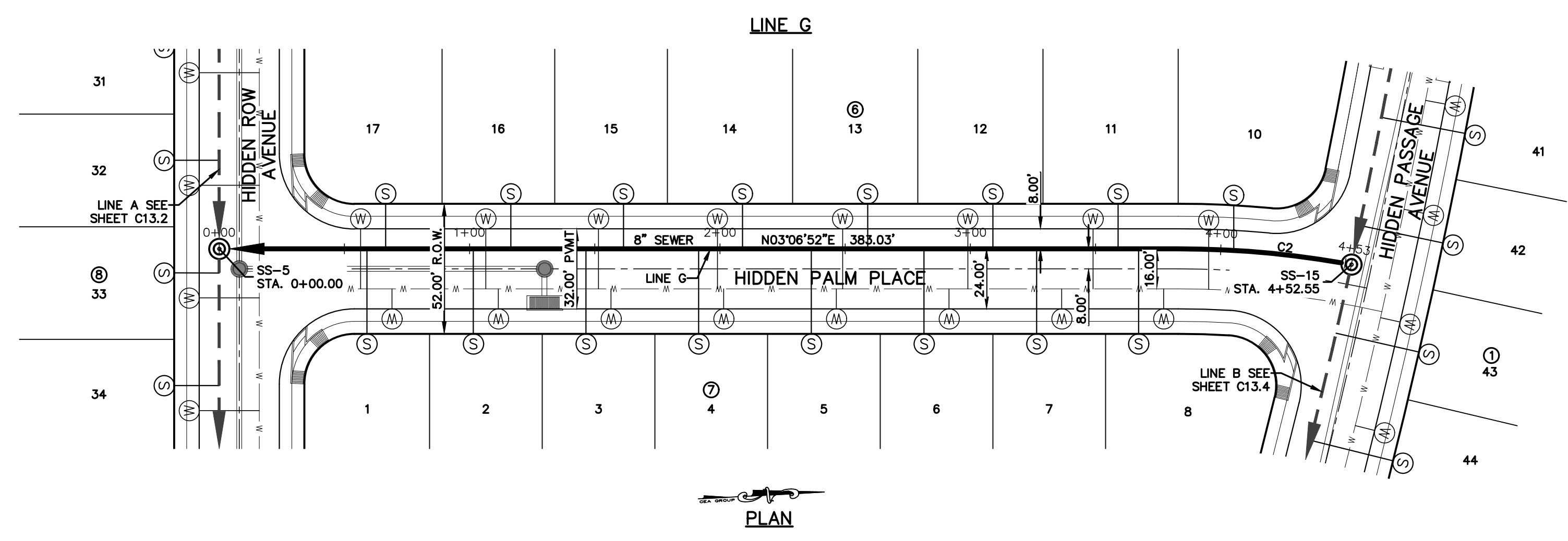
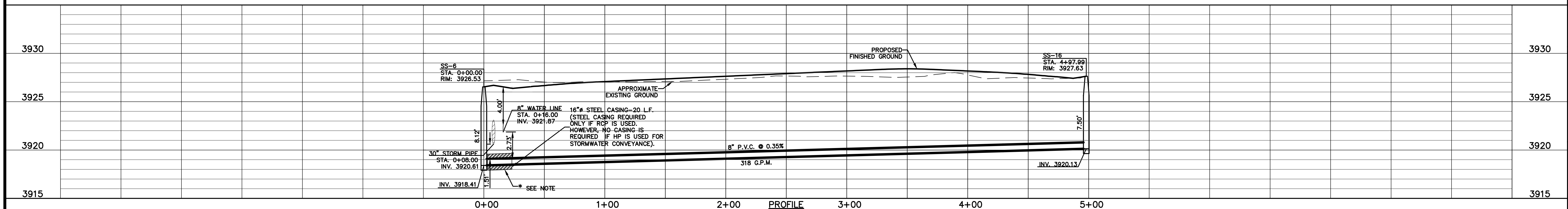
CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	624.14'	68.87'	34.47'	68.83'	S07°30'45"W	006°19'19"
C2	383.00'	69.52'	34.86'	69.43'	S08°18'53"W	010°24'01"

UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
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AT&T	(800) 852-3786
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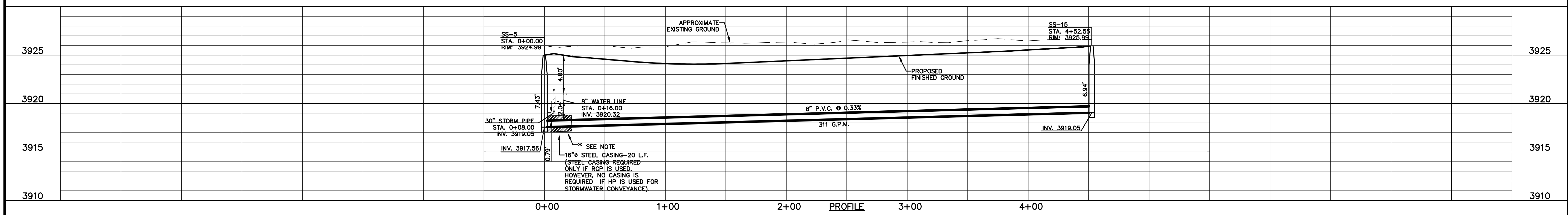
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NOTE:
* IF STEEL CASING IS NOT REQUIRED, THEN CEMENT STABILIZED BACKFILL IS REQUIRED ON THE SANITARY SEWER MAIN AT THE CROSSING WITH THE WATER MAIN.
COMPLY WITH DETAIL NO. 161 CASE NO.3 CEMENT STABILIZED BACKFILL



Oscar Villalobos
BY
07/01/2020
DATE



REFERENCES - BENCHMARKS
CITY MONUMENT LOCATED AT THE CENTERLINE INTERSECTION OF CLYDESDALE DRIVE AND PALOMINO STREET, ELEVATION = 3939.32 (NAD 86).

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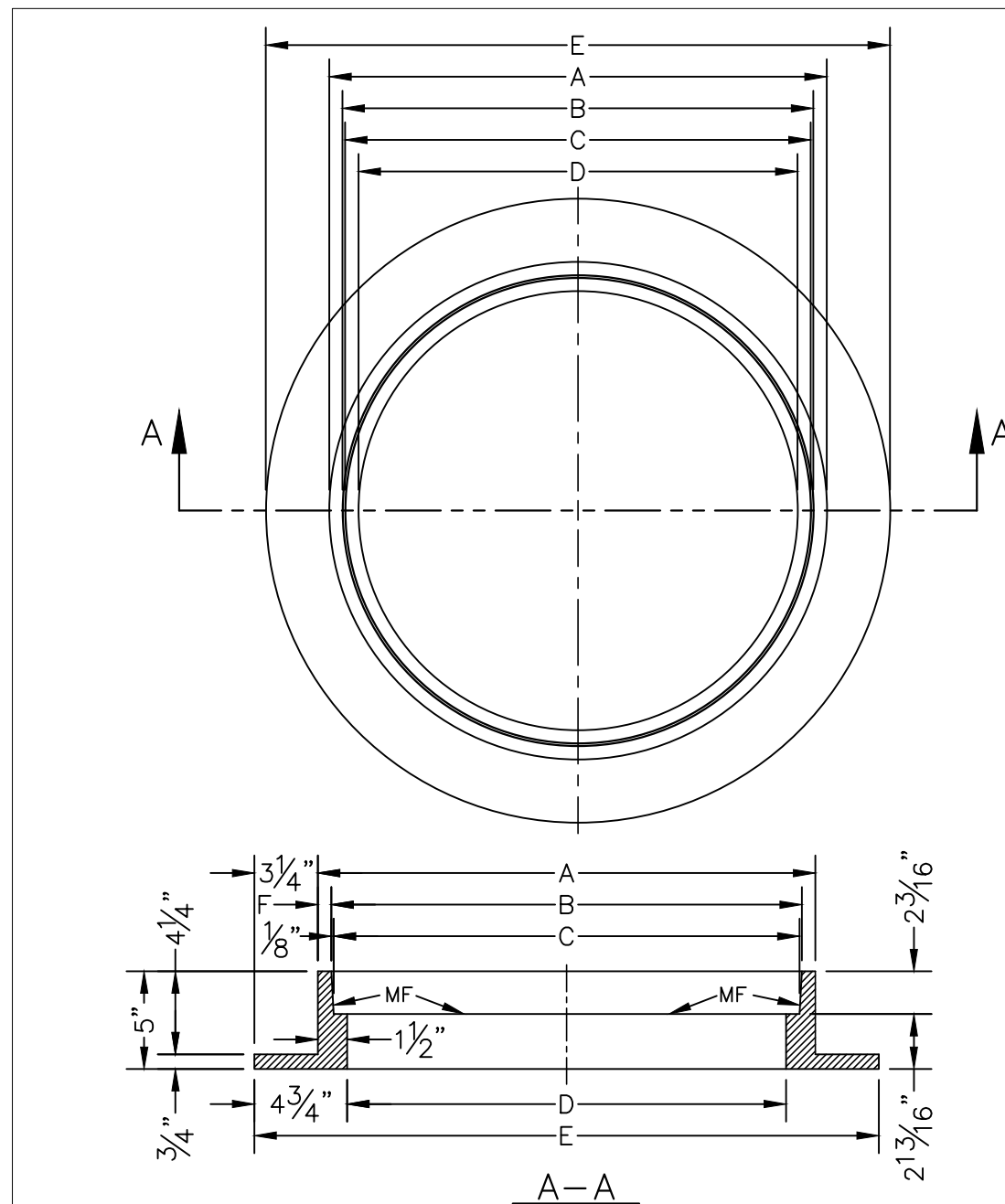
ENGINEER'S SEAL
JOSUE L. AZARATE
80075

SCALE
Horizontal: 1"=40'
Vertical: 1"=5'
Contour Interval: N/A
DATE: JUNE 2020
DESIGN BY: R.O.
DRAWN BY: F.Z.
CHKD. BY: J.L.A.
APPVD. BY: J.L.A.
JOB No. 2000-223

PROJECT TITLE
**HIDDEN VILLAGE
UNIT TWO
SUBDIVISION IMPROVEMENTS**

SHEET TITLE
**SANITARY SEWER
PLAN & PROFILE
LINE F & G**

SHEET NO.
C13.6

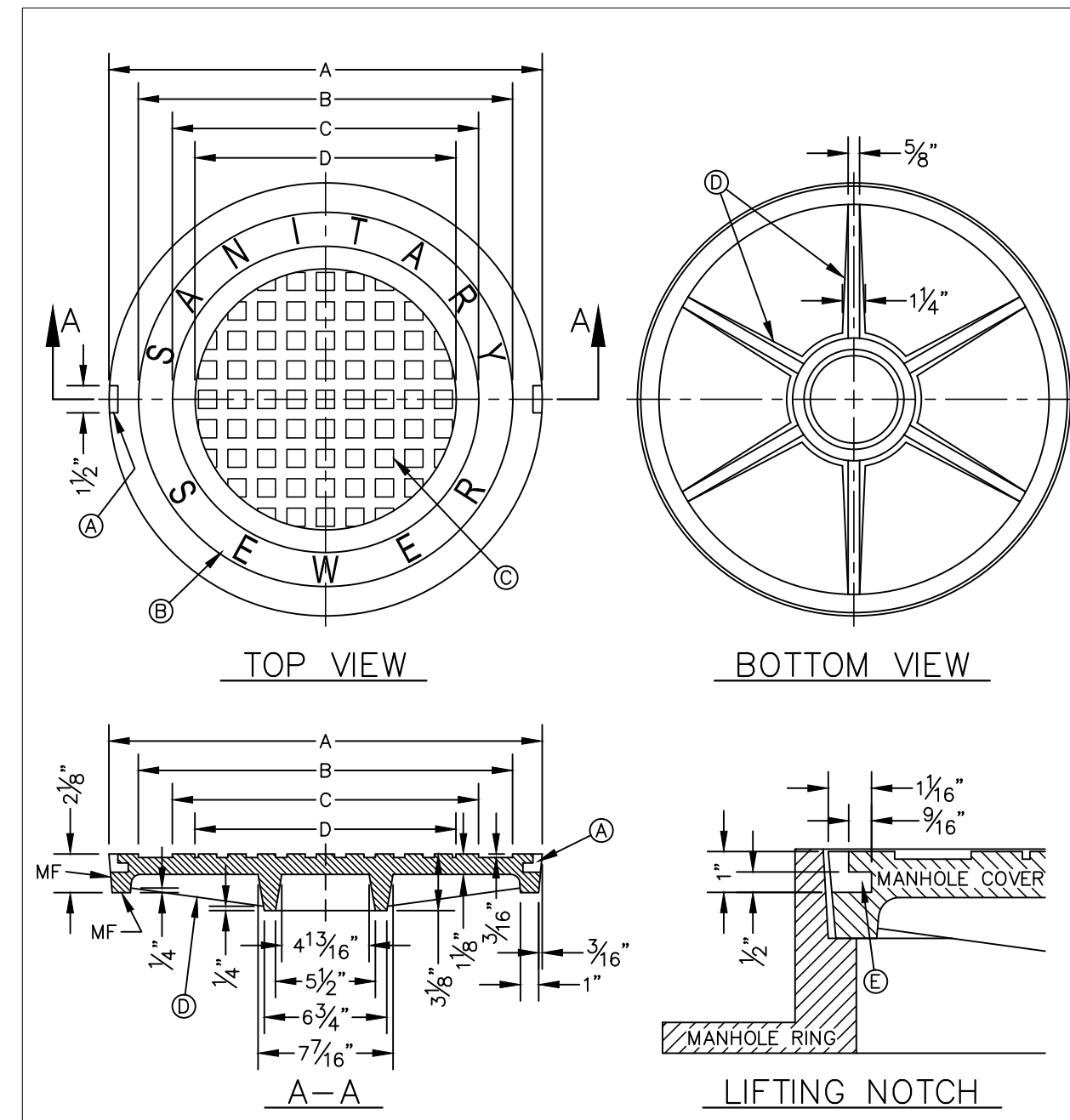


- GENERAL NOTES:**
1. MATCHING SURFACES MARKED "MF" TO BE FINISHED OF ANY IRREGULARITIES THAT WOULD PREVENT A SNUG FIT.
 2. CASTING TO BE SMOOTH & VOID OF AIR HOLES.
 3. CASTING MUST MEET REQUIREMENTS OF AASHTO M306-07.
 4. AS-CAST DIMENSIONS MAY VARY $\frac{1}{16}$ " \pm / PER FOOT (AASHTO M306-07).
 5. WEIGHT MAY VARY 5% \pm (AASHTO M306-07).

MANHOLE RING	MANHOLE - ALL TYPES
A	33"
B	31 3/4"
C	31 1/2"
D	30"
E	39 1/2"
F	5/8"
WEIGHT	205 lbs.

STANDARD DETAIL DATE: 11/1992 REV: 2/21/2011 SEWER MANHOLE RING N.T.S. el paso WATER DETAIL No. 377

1 STANDARD MANHOLE RING SCALE: N.T.S.



- GENERAL NOTES:**
1. MATCHING SURFACES MARKED "MF" TO BE FINISHED OF ANY IRREGULARITIES THAT WOULD PREVENT A SNUG FIT.
 2. CASTING TO BE SMOOTH & VOID OF AIR HOLES.
 3. CASTING MUST MEET REQUIREMENTS OF AASHTO M306-07.
 4. AS-CAST DIMENSIONS MAY VARY $\frac{1}{16}$ " \pm / PER FOOT (AASHTO M306-07).
 5. WEIGHT MAY VARY 5% \pm (AASHTO M306-07).

- CONSTRUCTION KEY NOTES:**
- A. LIFTING NOTCH.
 - B. $\frac{3}{16}$ " RAISED LETTERING.
 - C. 1" SQUARES ($\frac{3}{16}$ " TALL) WITH $\frac{5}{16}$ " SPACE BETWEEN.
 - D. REINFORCING RIBS.
 - E. SLOT.

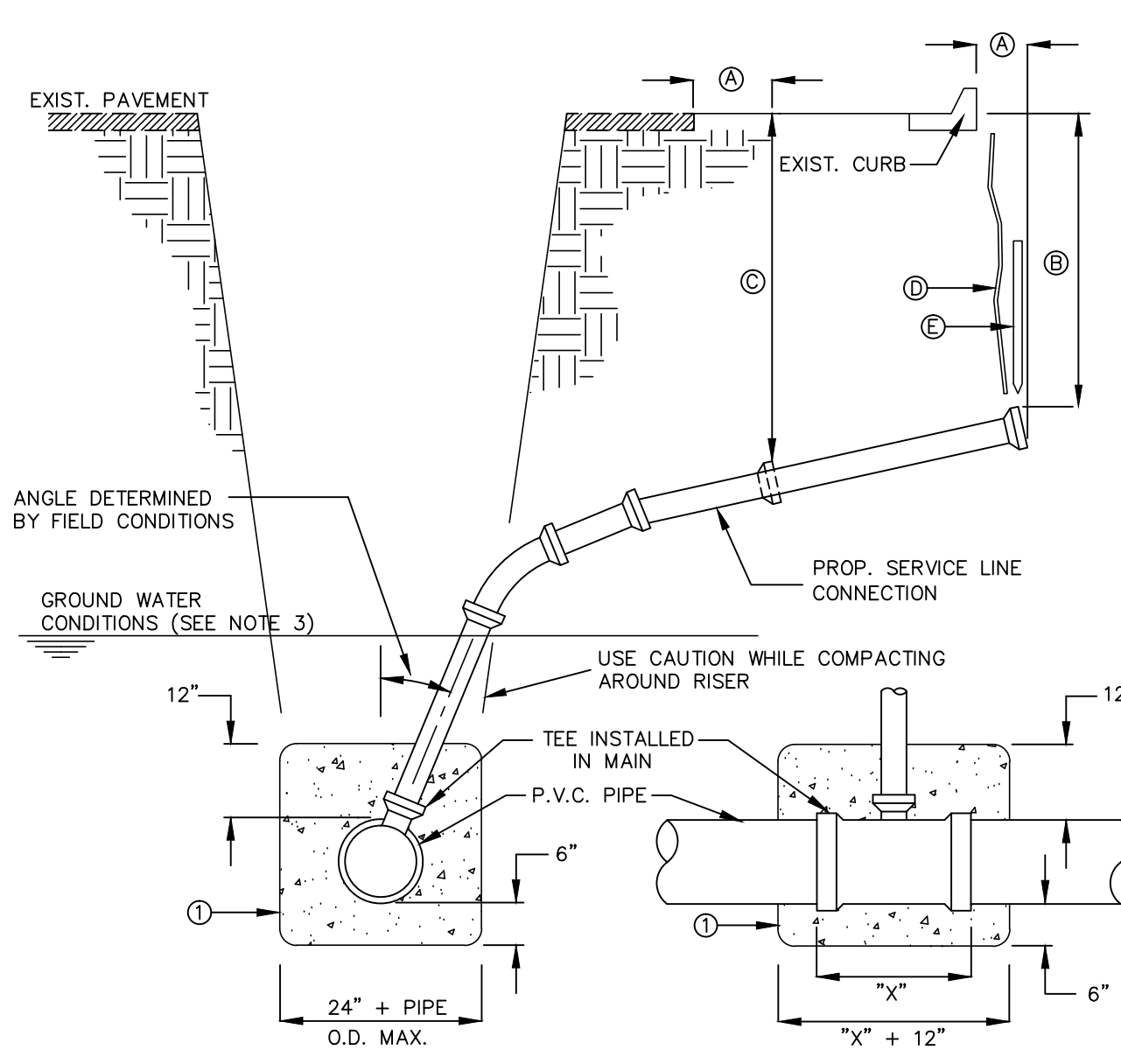
MANHOLE COVER	MANHOLE - ALL TYPES
A	31 3/8"
B	28 1/8"
C	24 3/8"
D	21 7/8"
WEIGHT	200 lbs.

STANDARD DETAIL DATE: 11/1992 REV: 2/21/2011 SEWER MANHOLE COVER N.T.S. el paso WATER DETAIL No. 378

2 STANDARD COVER DETAIL SCALE: N.T.S.



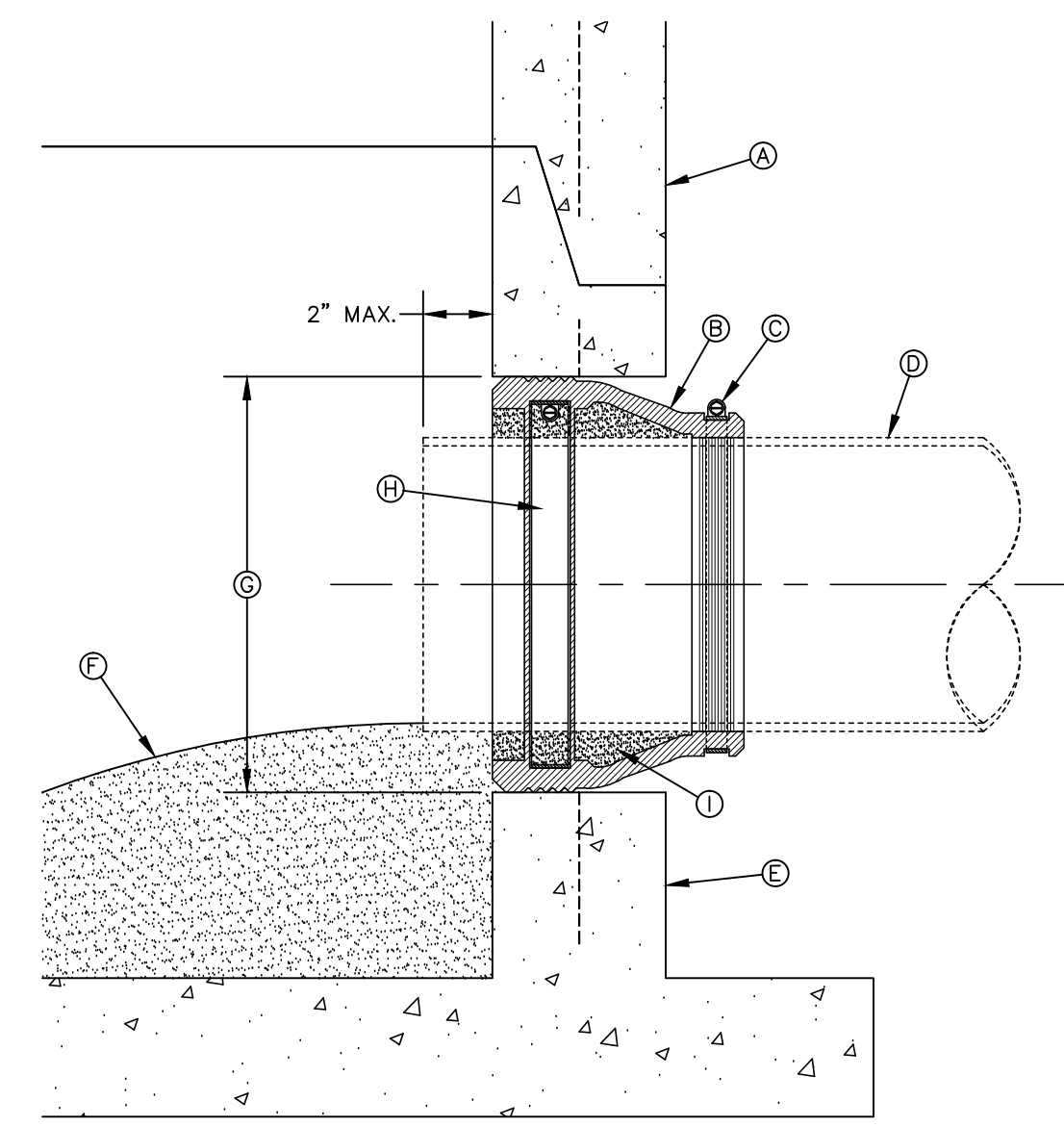
Oscar Villalobos 07/01/2020
BY DATE



- GENERAL NOTES:**
1. IN GROUNDWATER CONDITIONS ONLY, P.V.C. SADDLES OR TEES ARE TO BE ENCASED WITH CLASS B CONCRETE.
 2. UNDER CERTAIN CONDITIONS FIELD INVESTIGATIONS WILL BE REQUIRED TO DETERMINE THE ADEQUACY OF THE DEPTH ON THE LATERAL.
 3. WHEN GROUND WATER IS ENCOUNTERED SERVICE RISER SHALL BE EXTENDED ABOVE ANTICIPATED WATER TABLE LEVEL.
- CONSTRUCTION KEY NOTES:**
- A. CONTRACTOR TO INSTALL SEWER SERVICE LINE FROM THE MAIN TO A LOCATION 6" BEHIND THE CURB OR 18" BEYOND THE EDGE OF PAYMENT, UNLESS CONDITIONS REQUIRE OTHERWISE.
 - B. 18" FOR STANDARD SUBDIVISION, 3.5' FOR SUBDIVISIONS WITH ON-SITE PONDING OR FLAT TERRAIN.
 - C. RISERS OR LATERALS EXTENDING BEYOND EXISTING PAVING SHALL BE INSTALLED TO 3.5' MINIMUM TOP OF GROUND OR PAVEMENT, UNLESS CONDITIONS REQUIRE OTHERWISE.
 - D. PLASTIC METALLIC MARKING TAPE RISING TO WITHIN 6" OF GROUND SURFACE OR METALLIC DISK.
 - E. WOODEN STAKE (1"x2"x36") VERTICALLY PLACED AT PLUGGED END OF PROPOSED SERVICE LINE.

STANDARD DETAIL DATE: 11/1992 REV: 1/23/2009 SEWER SERVICE RISER AND SERVICE LINE CONNECTION N.T.S. el paso WATER DETAIL No. 391

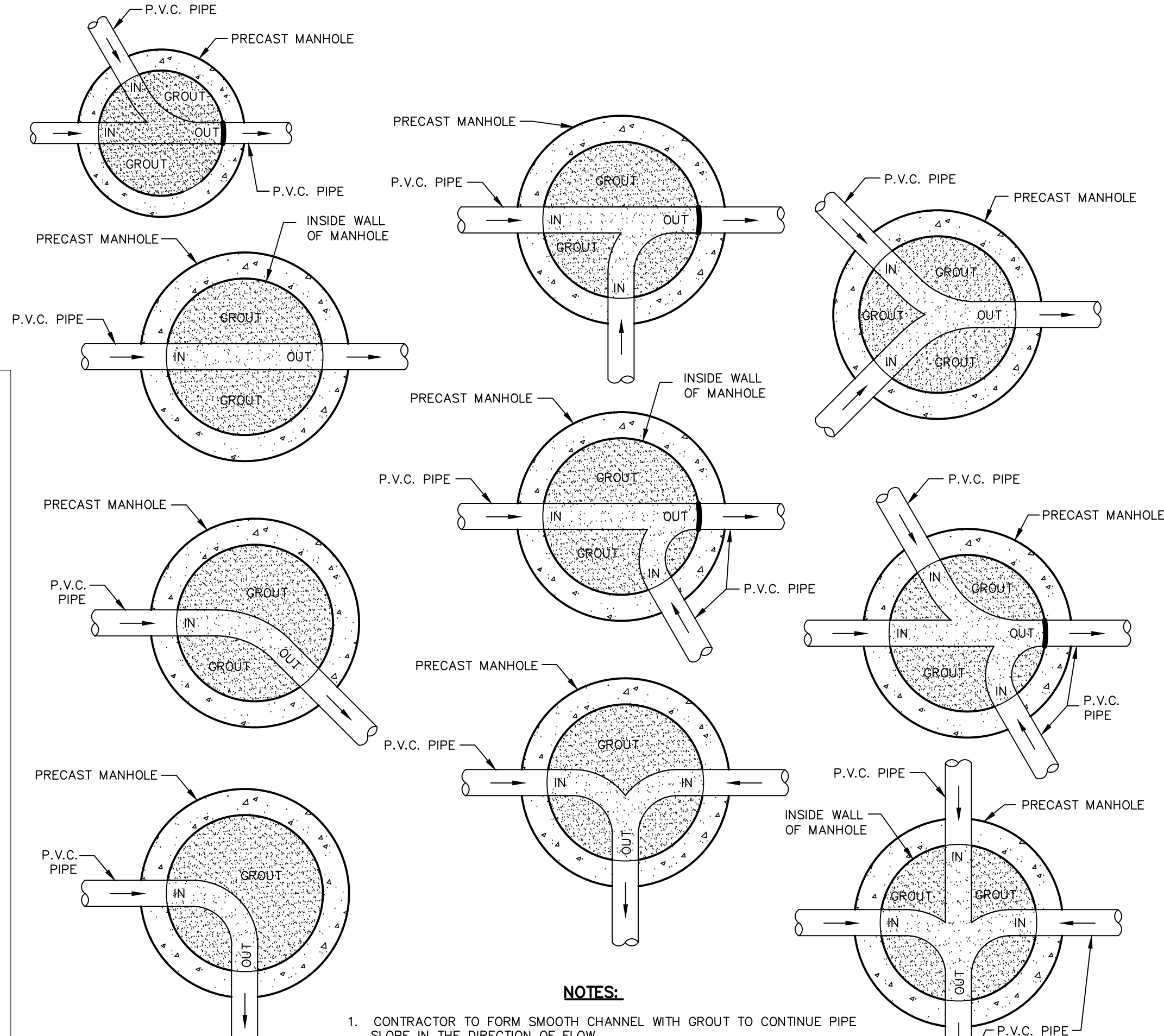
3 SEWER SERVICE RISER AND SERVICE LINE CONNECTION SCALE: N.T.S.



- GENERAL NOTES:**
1. MANHOLE CONNECTOR SHALL BE KOR-N-SEAL OR EQUAL MEETING THE REQUIREMENTS OF ASTM C-923. CONNECTOR SHALL BE FURNISHED BY CONTRACTOR.
- CONSTRUCTION KEY NOTES:**
- A. PRECAST MANHOLE BARREL.
 - B. FLEXIBLE CONNECTOR.
 - C. PIPE CLAMP SS 316.
 - D. APPROVED PIPE.
 - E. PRECAST MANHOLE BASE.
 - F. GROUT AS REQUIRED TO FORM SMOOTH CHANNEL TO MANHOLE INVERT.
 - G. PIPE OPENINGS/KNOCKOUTS AS REQUIRED TO FIT PIPE SIZE.
 - H. EXPANSION BAND SS 316.
 - I. FILL SPACE WITH GROUT.

STANDARD DETAIL DATE: 11/1992 REV: 8/13/2009 PIPE CONNECTION TO MANHOLE N.T.S. el paso WATER DETAIL No. 376

4 PIPE CONNECTION TO MANHOLE SCALE: N.T.S.



- NOTES:**
1. CONTRACTOR TO FORM SMOOTH CHANNEL WITH GROUT TO CONTINUE PIPE SLOPE IN THE DIRECTION OF FLOW.
 2. WIDTH OF CHANNEL TO MATCH INSIDE DIAMETER OF PIPE.
 3. WHEN DIFFERENT SIZES OF PIPE ARE CONNECTING TO MANHOLE, TAPER WIDTH OF CHANNEL TO TOTAL LENGTH OF INSIDE DIAMETER OF MANHOLE.
 4. GROUT TO BE USED FOR BOTH MANHOLES AND DROP MANHOLES. NO P.V.C. PIPE SHALL BE INSTALLED IN MANHOLE.
 5. REFER TO PLAN & PROFILE SHEETS FOR SIZES OF PIPES AND MANHOLES.

5 TYPICAL MANHOLE INVERT PLANS SCALE: N.T.S.

UTILITY LOCATOR SERVICES

EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5500
MCI SURVEILLANCE	(800) MCI-WORK
TIME WARNER COMMUNICATIONS	(915) 772-1123
TEXAS GAS SERVICE	(915) 680-7200
SBC	(800) 545-6005
AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579

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FOR FIELD LOCATING EXISTING UTILITIES

REFERENCES - BENCHMARKS

CITY MONUMENT LOCATED AT THE CENTERLINE INTERSECTION OF CLYDESDALE DRIVE AND PALMOLINO STREET, THE NORTH AMERICAN VERTICAL DATUM IS ELEVATION = 3939.32 (NAD 86).

DATE	REVISIONS	BY

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TEXAS REGISTERED ENGINEERING FIRM F-4564



SCALE: N/A
Horizontal: N/A
Vertical: N/A
Contour Interval: N/A
DATE: JUNE 2020
DESIGN BY: R.O.
DRAWN BY: F.Z.
CHKD. BY: J.L.A.
APPVD. BY: J.L.A.
JOB No.: 2000-223

PROJECT TITLE
HIDDEN VILLAGE
UNIT TWO
SUBDIVISION IMPROVEMENTS

SHEET TITLE

SANITARY SEWER DETAILS

(SHEET 1 OF 3)

SHEET NO.

C13.7

UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
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EL PASO WATER UTILITIES	(915) 594-5500
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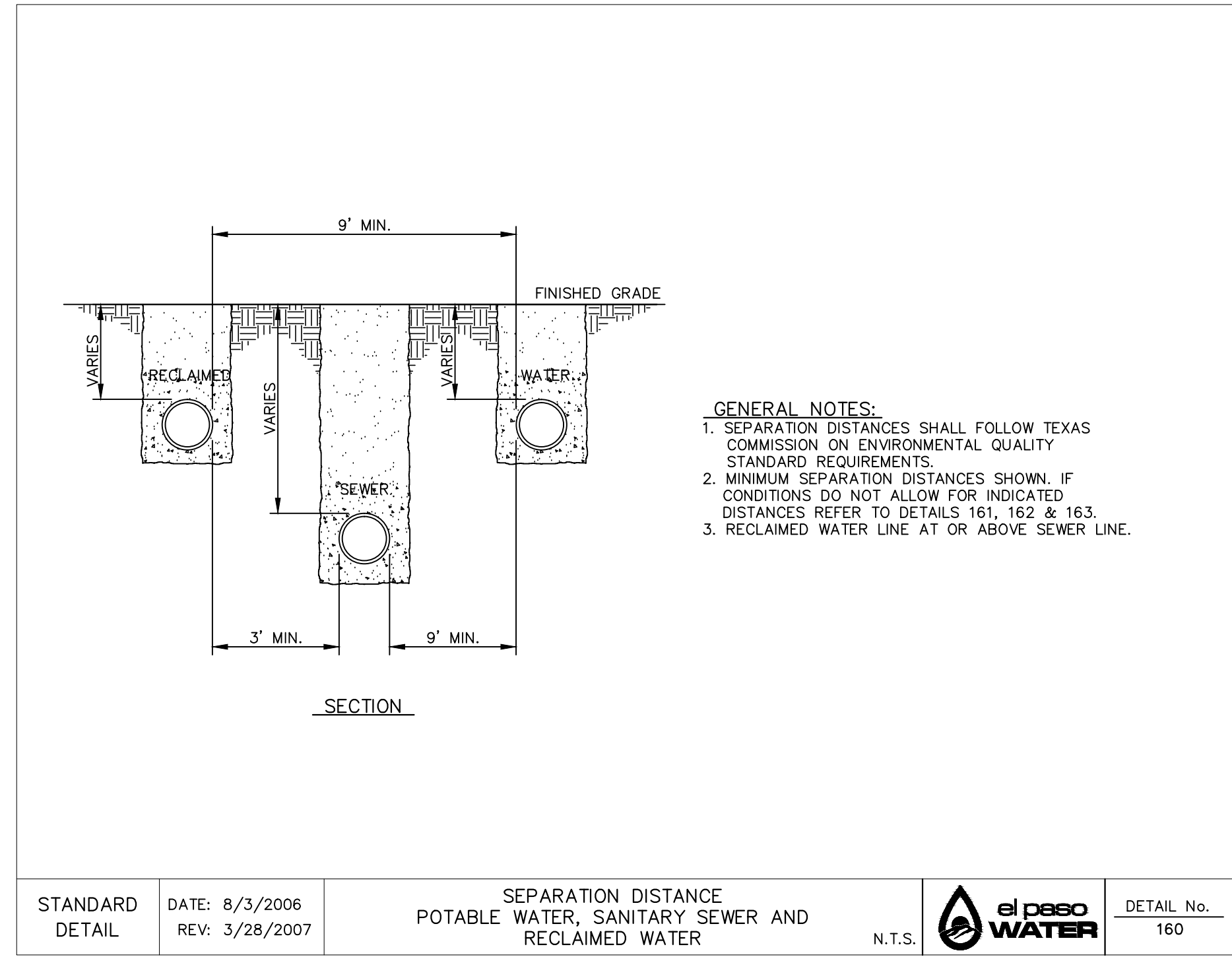
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DATE	REVISIONS	BY

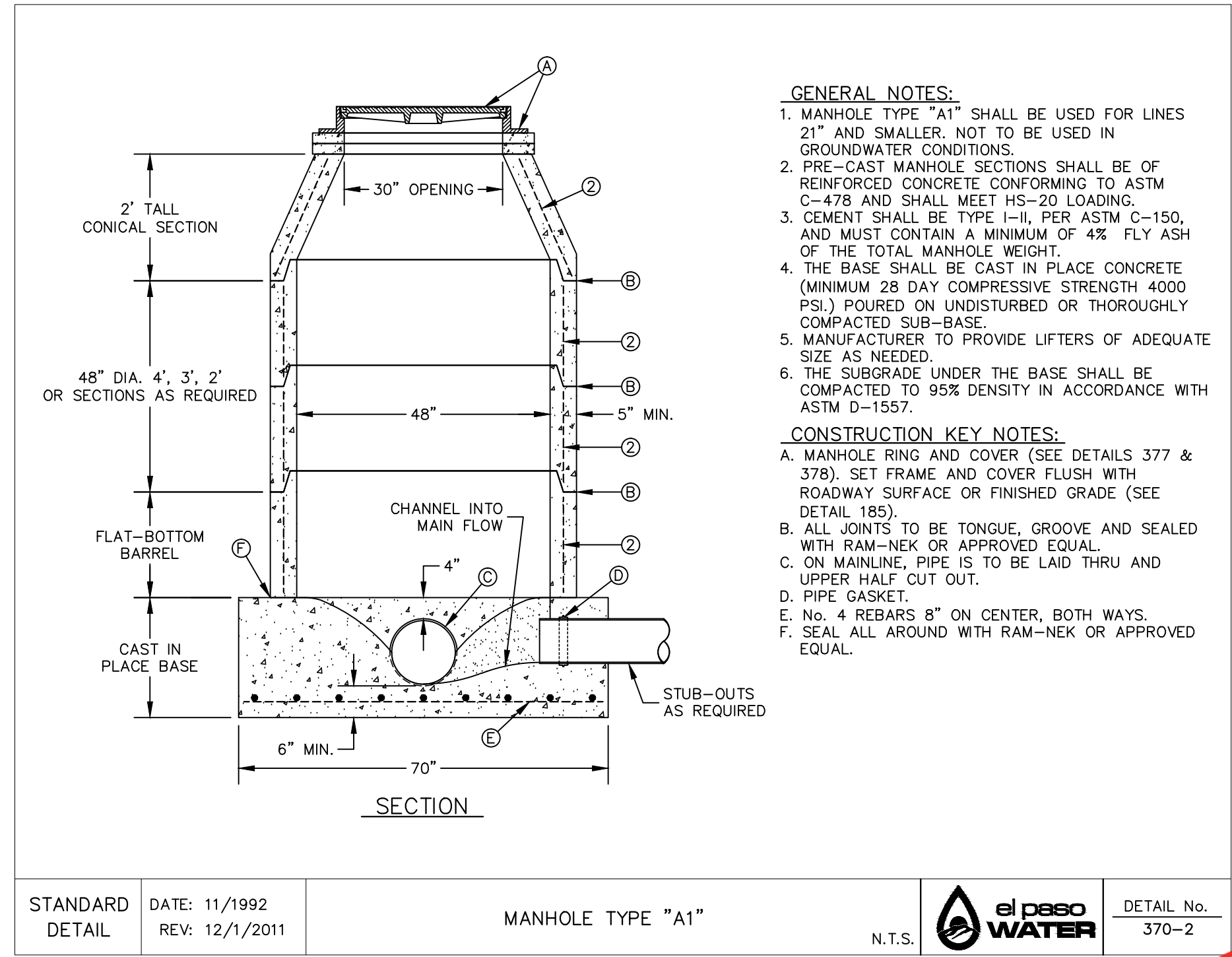
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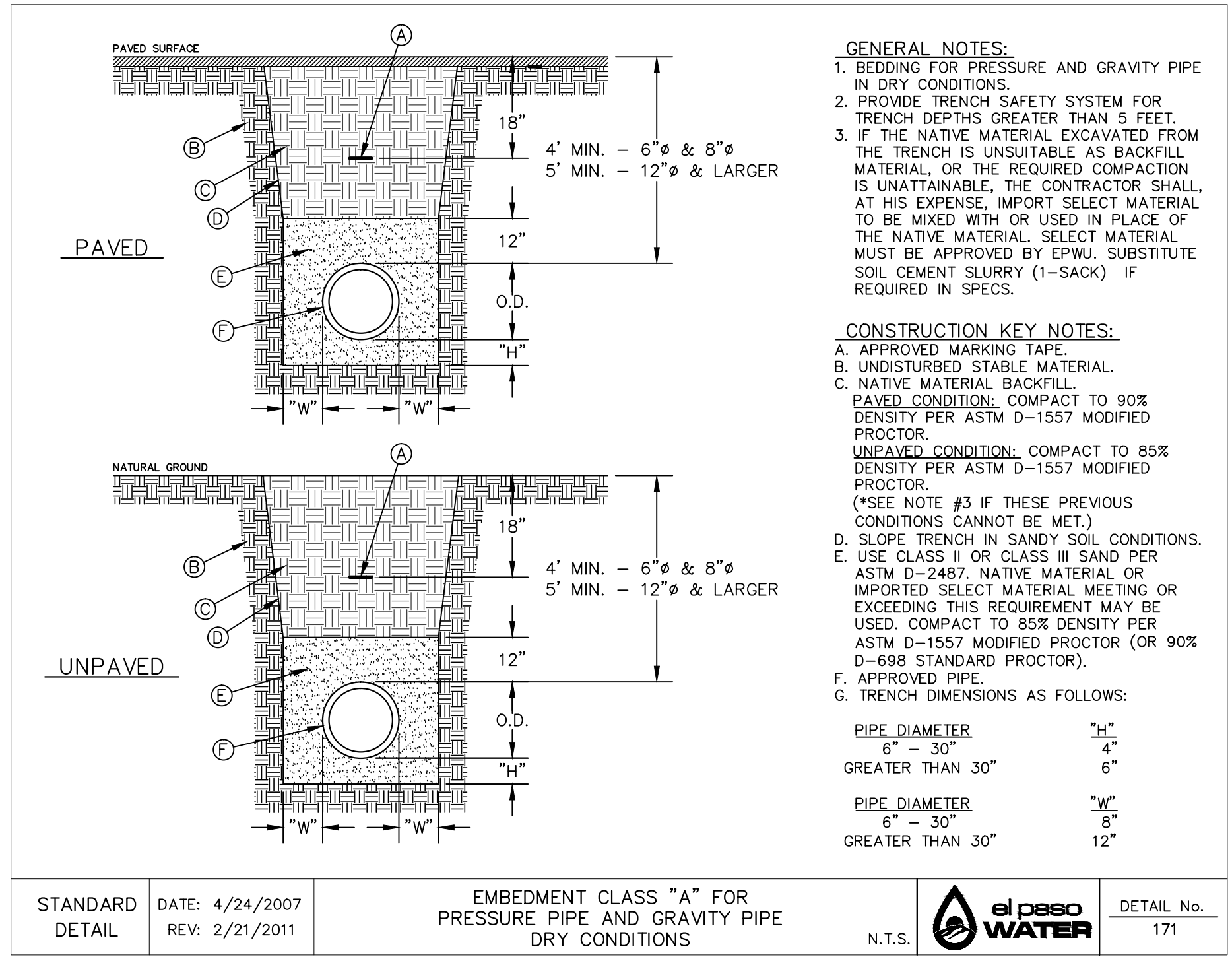
ENGINEER'S SEAL
JOSUE L. AZARATE
8075



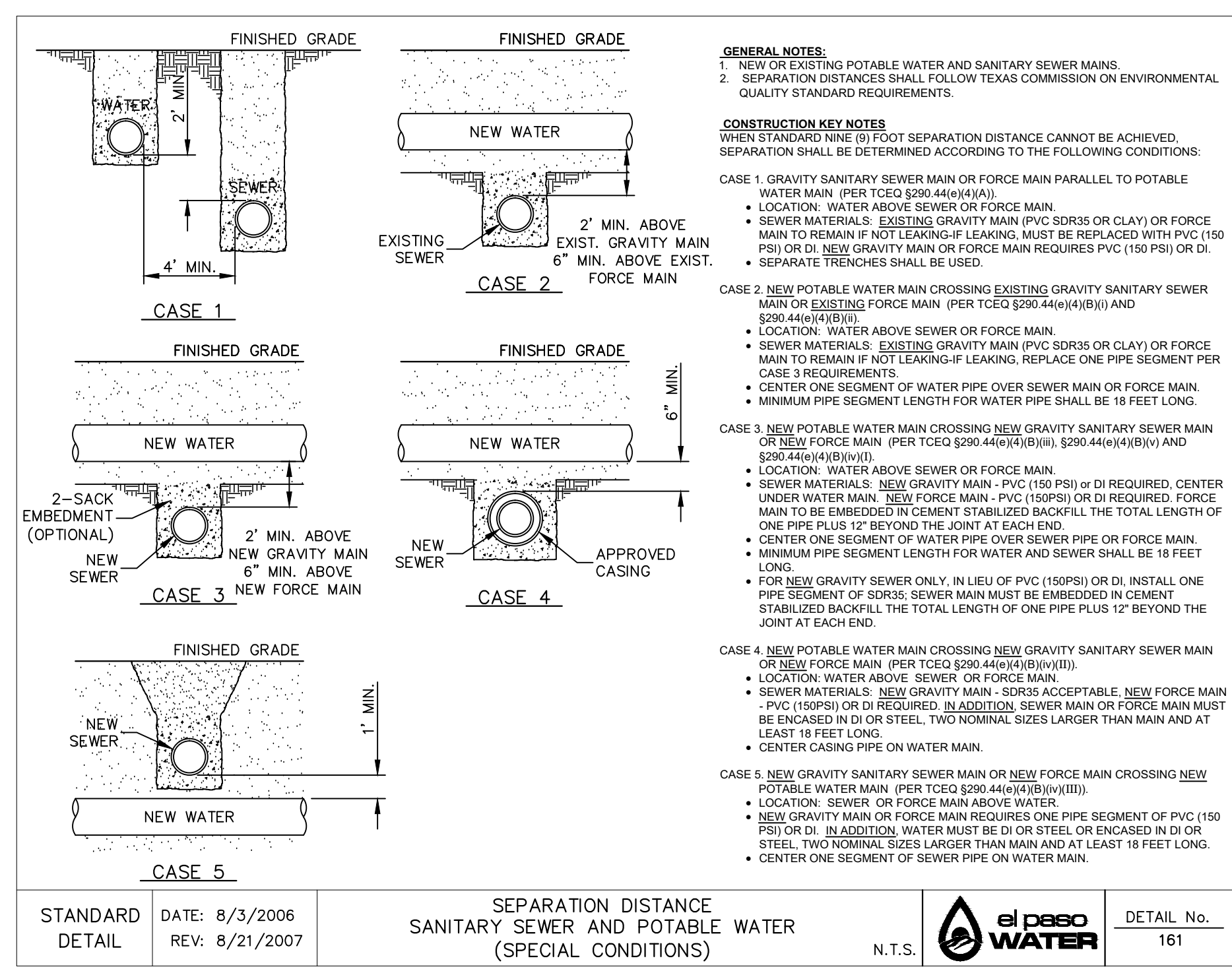
1 SEPARATION DISTANCE—POTABLE WATER, SANITARY SEWER AND RECLAIMED WATER
SCALE: N.T.S.



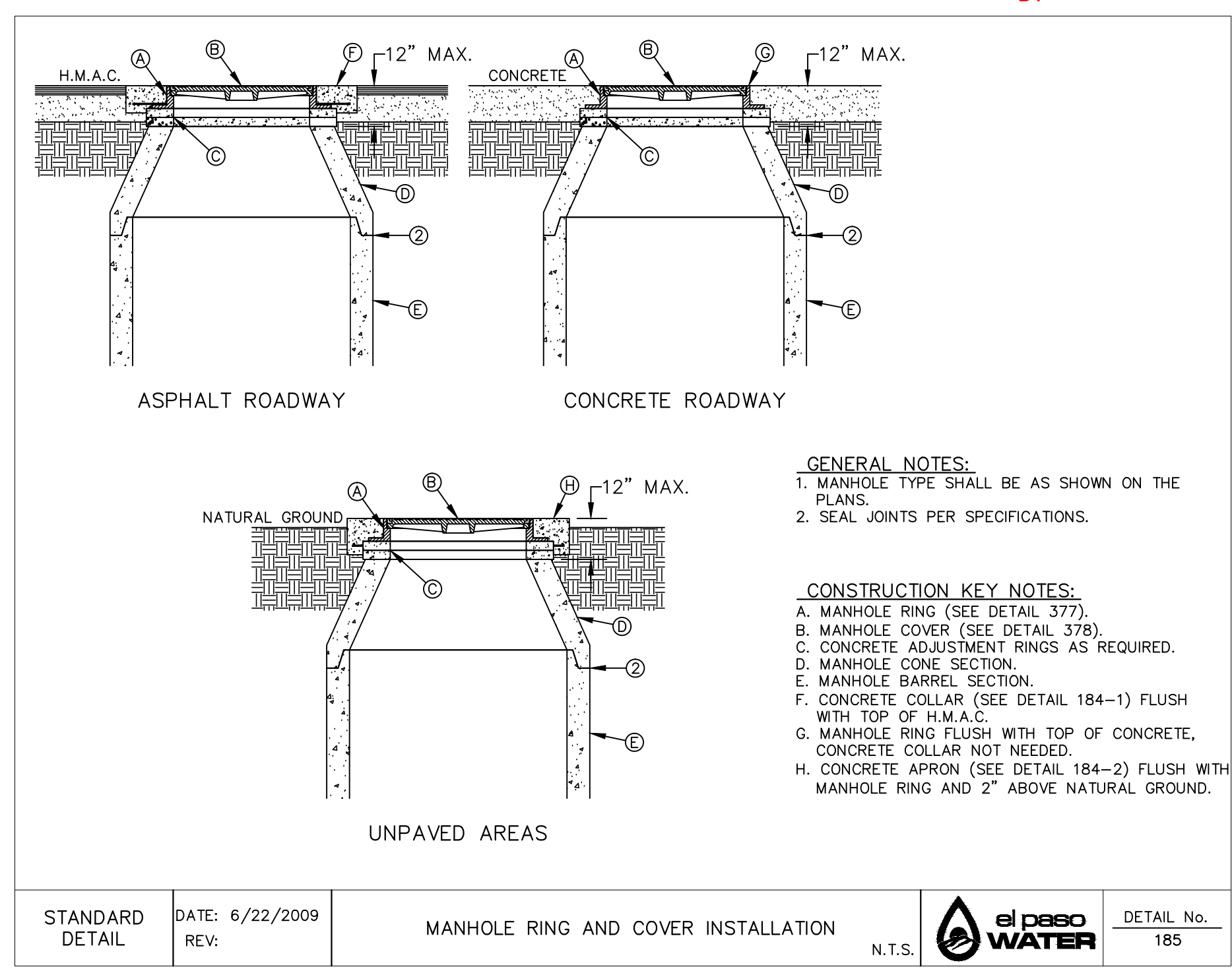
2 STANDARD MANHOLE TYPE "A1"
SCALE: N.T.S.



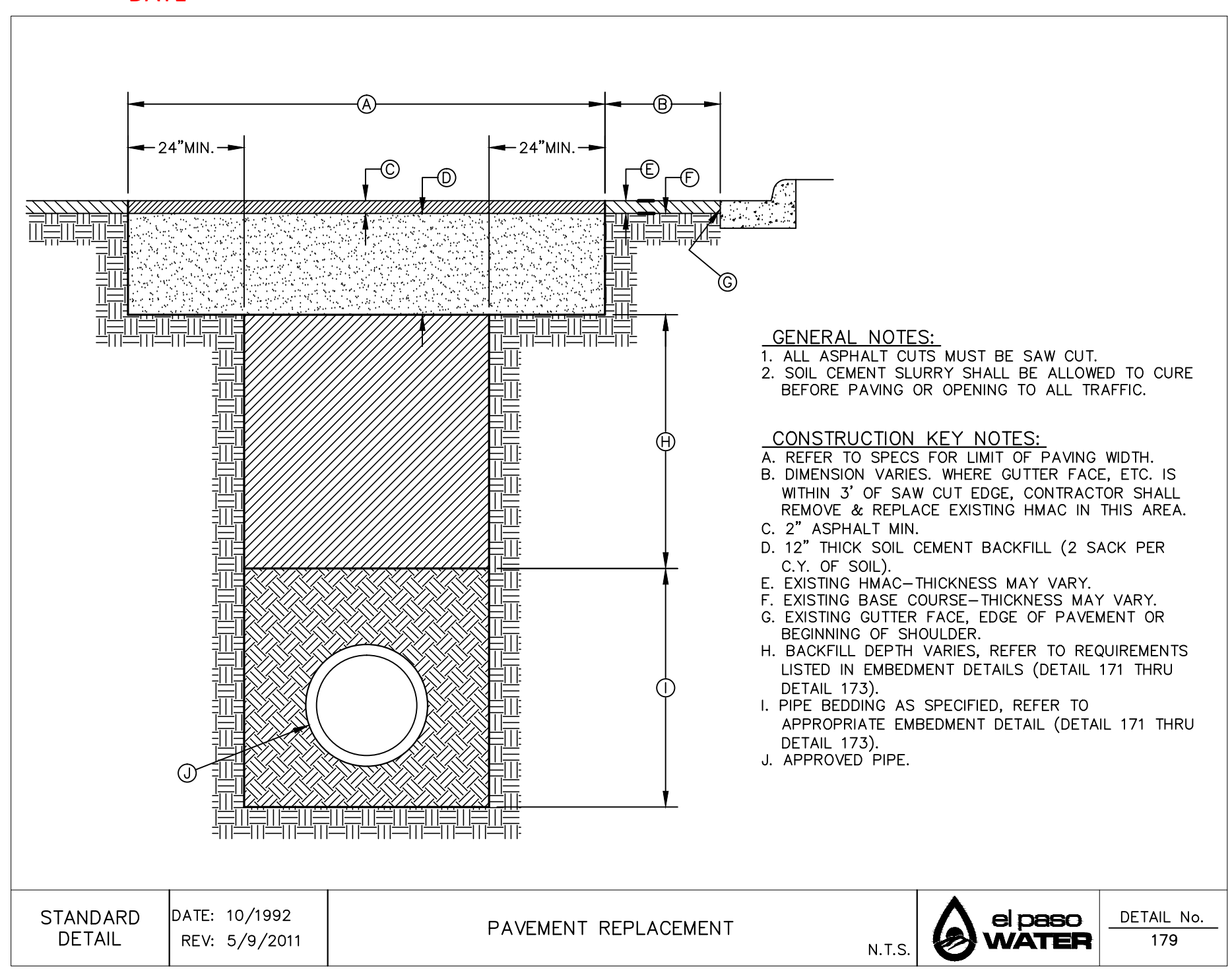
3 BEDDING CLASS DETAILS FOR P.V.C. PRESSURE PIPE
SCALE: N.T.S.



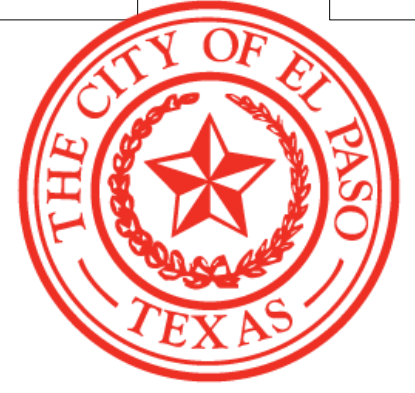
4 SEPARATION DISTANCE SANITARY SEWER AND POTABLE WATER (SPECIAL CONDITIONS)
SCALE: N.T.S.



5 STANDARD MANHOLE RING AND COVER INSTALLATION DETAIL
SCALE: N.T.S.



6 PAVEMENT REPAIR DETAIL
SCALE: N.T.S.



Oscar Villalobos
BY
07/01/2020
DATE

SCALE	N/A
Horizontal:	N/A
Vertical:	N/A
Contour Interval:	N/A
DATE:	JUNE 2020
DESIGN BY:	R.O.
DRAWN BY:	F.Z.
CHKD. BY:	F.Z.
APPVD. BY:	J.L.A.
JOB No.:	2000-223

PROJECT TITLE
**HIDDEN VILLAGE
UNIT TWO
SUBDIVISION IMPROVEMENTS**

SHEET TITLE
**SANITARY SEWER
DETAILS**

(SHEET 2 OF 3)
SHEET NO.

C13.8

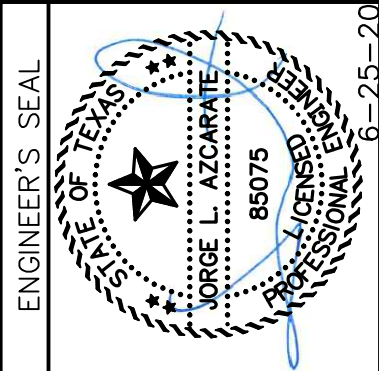
UTILITY LOCATOR SERVICES	
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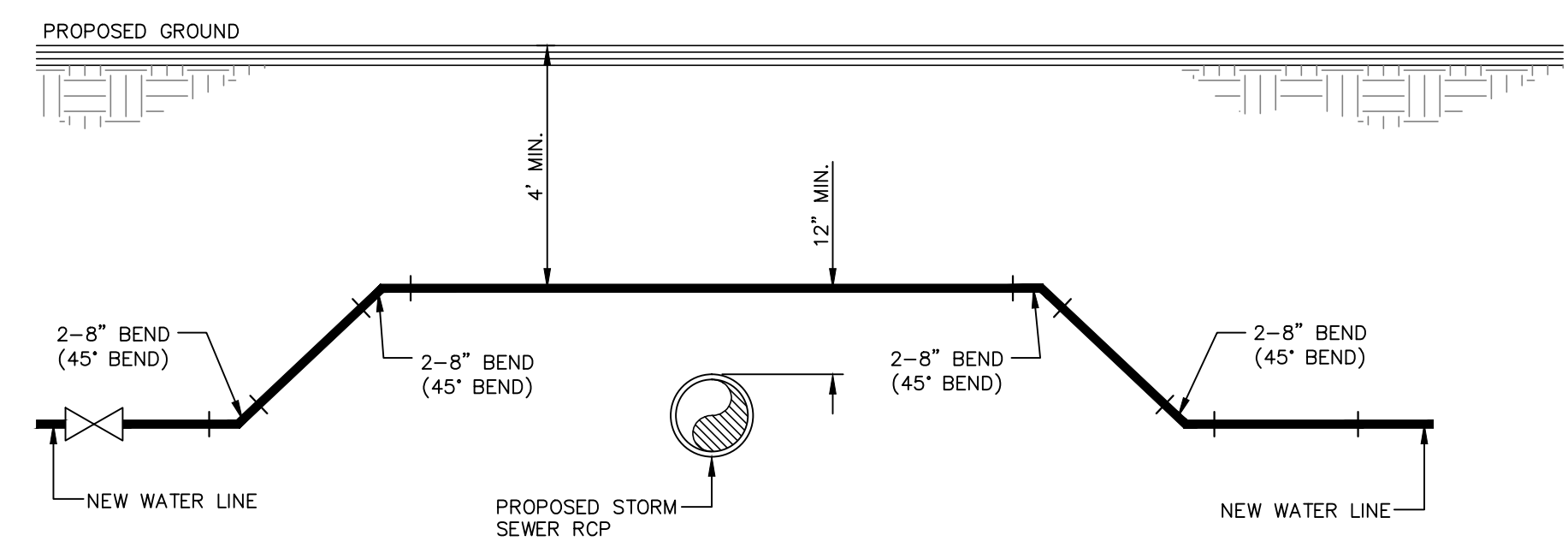
DATE	REVISIONS	BY

REFERENCES - BENCHMARKS
CITY MONUMENT LOCATED AT THE CENTERLINE INTERSECTION OF CLYDESDALE DRIVE AND PALOMINO STREET, THE NORTH AMERICAN VERTICAL DATUM IS ELEVATION = 3939.32 (NAD 86).

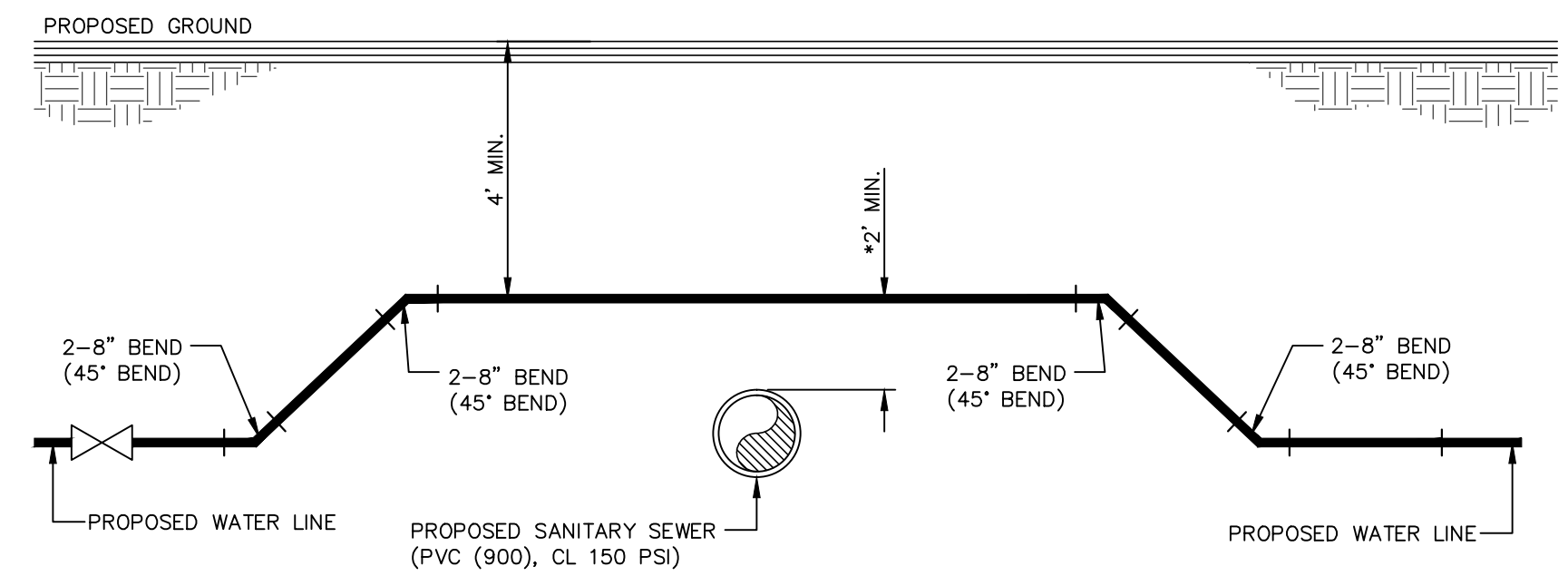
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TEXAS REGISTERED ENGINEERING FIRM F-4564



SCALE	N/A
Horizontal:	N/A
Vertical:	N/A
Contour Interval:	N/A
DATE:	JUNE 2020
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DRAWN BY:	F.Z.
CHKD. BY:	J.L.A.
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JOB No.:	2000-223

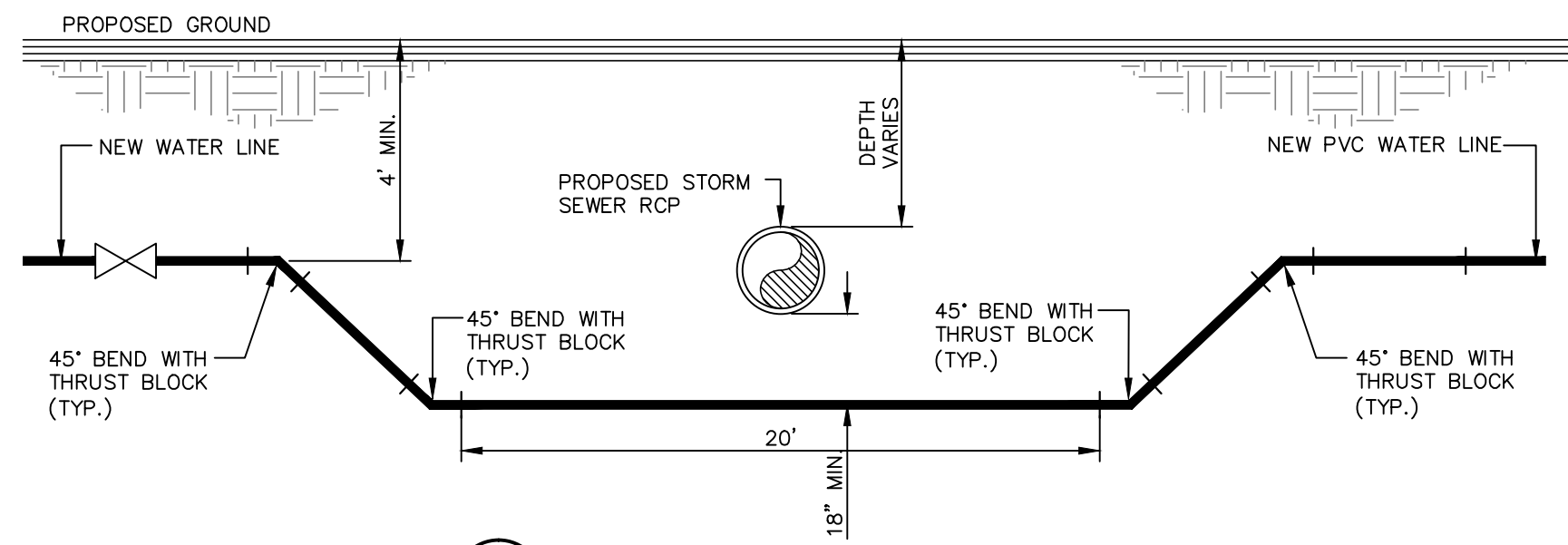


1 STORM SEWER CROSSING DETAIL
SCALE: N.T.S.

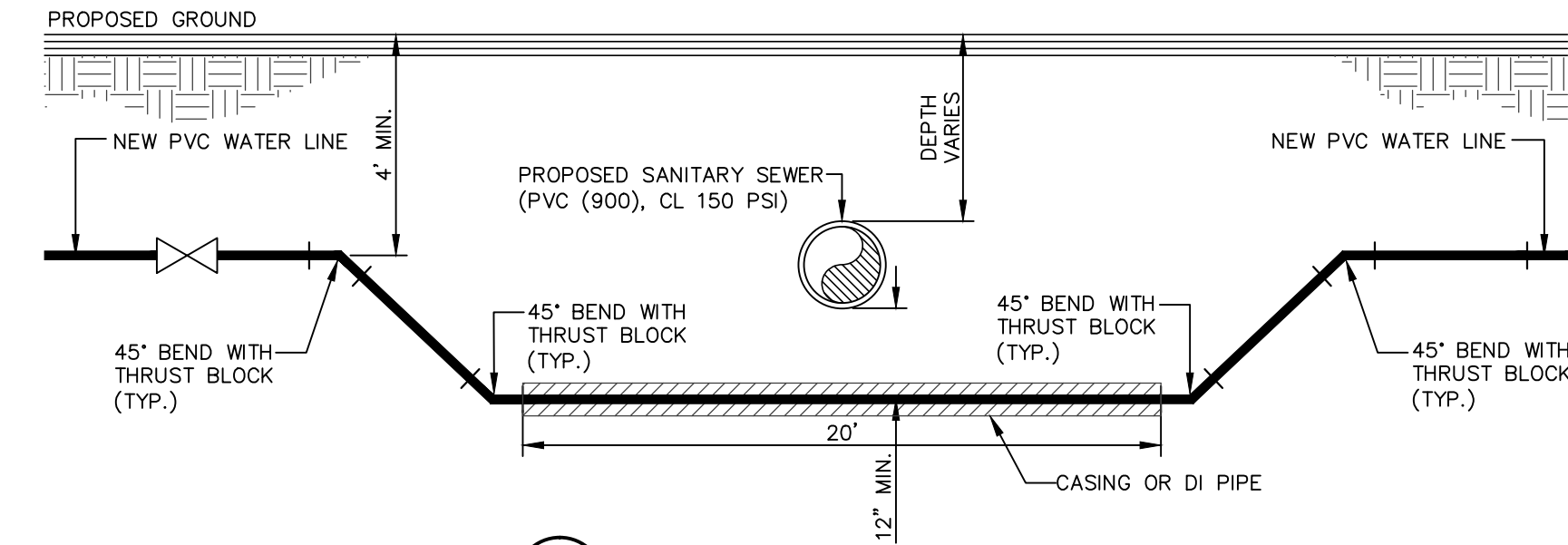


2 SANITARY SEWER CROSSING WATER LINE DETAIL
SCALE: N.T.S.

NOTE:
IF DISTANCE BETWEEN PROPOSED SANITARY SEWER AND PROPOSED WATER LINE IS BETWEEN 6"(MIN.)-2"(MAX.), SANITARY SEWER MUST BE ENCASED IN DUCTILE IRON PIPE AS PER SEPERATION DISTANCE (SPECIAL CONDITION) DETAIL.



3 STORM SEWER CROSSING DETAIL
SCALE: N.T.S.



4 SANITARY SEWER CROSSING DETAIL
SCALE: N.T.S.



Oscar Villalobos
BY _____ DATE 07/01/2020

PROJECT TITLE
**HIDDEN VILLAGE
UNIT TWO
SUBDIVISION IMPROVEMENTS**

SHEET TITLE
**SANITARY SEWER
DETAILS**
(SHEET 3 OF 3)
SHEET NO.

C13.9

SITE DESCRIPTION

PROJECT NAME AND LIMITS: HIDDEN VILLAGE UNIT TWO ONE IS BORDERED BY TRACT 1A, SECTION No. 31, BLOCK 80, OF TOWNSHIP 1, TEXAS & PACIFIC RAILWAY COMPANY SURVEYS, EL PASO COUNTY, TEXAS TO THE NORTH, DYER STREET (OLD U.S. HWY. 54) TO THE EAST, HIDDEN VILLAGE UNIT ONE AND DYER PALMS APARTMENTS TO THE SOUTH, CITY OF EL PASO DRAINAGE CHANNEL ORDINANCE 2640, McCOMBS SUBDIVISION TO THE WEST.

PROJECT DESCRIPTION: THE SITE FOR THE NEW SUBDIVISION WILL ENCOMPASS APPROXIMATELY 40.147± ACRES, AND WILL CONTAIN A TOTAL OF 220 RESIDENTIAL LOTS AND 1 PARK & 1 POND.

EXISTING CONDITIONS: THE SITE IS CLEAR OF SITE IMPROVEMENTS AND IS COVERED WITH ITS NATURAL SURROUNDINGS. EXISTING RUNOFF FLOW TO THE EAST.

MAJOR SOIL DISTURBING ACTIVITIES: MAJOR SOIL DISTURBING ACTIVITIES WILL CONSIST OF CLEARING AND GRUBBING, GRADING FOR BUILDING PAD ELEVATIONS, CONSTRUCTION OF STREETS AND EXCAVATION FOR UTILITIES.

TOTAL PROJECT AREA: 40.147±

TOTAL AREA TO BE DISTURBED: 40.147±

WEIGHTED RUNOFF COEFFICIENT (AFTER CONSTRUCTION): 0.596

EXISTING CONDITION OF SOIL AND VEGETATIVE COVER AND % OF EXISTING VEGETATIVE COVER: THE PROJECT SITE IS LOCATED IN THE VICINITY OF THE TURNER-BERINO ASSOCIATION. NEARLY LEVEL AND GENTLY SLOPING SOILS THAT HAVE A CLAY LOAM SUBSOIL AND ARE MODERATELY DEEP OVER SOFT CALICHE; IN HUECO BOLSON.

NAME OF RECEIVING WATERS: HIDDEN VILLAGE UNIT TWO SUBDIVISION WILL DISCHARGE INTO AN ON-SITE STORM SEWER INFRASTRUCTURE AND ULTIMATELY DISCHARGE INTO AN ON-SITE RETENTION BASIN.



Oscar Villalobos 07/01/2020
 BY DATE

EROSION AND SEDIMENT CONTROL

SOIL STABILIZATION PRACTICES

- TEMPORARY SEEDING
- PERMANENT PLANTING, SODDING, OR SEEDING
- MULCHING
- SOIL RETENTION BLANKET
- BUFFER ZONES
- PRESERVATION OF NATURAL RESOURCES

OTHER: _____

STRUCTURAL PRACTICES:

- SILT FENCE
- HAY BALES
- ROCK BERMS
- DIVERSION, INTERCEPTOR, OR PERIMETER DIKES
- DIVERSION, INTERCEPTOR, OR PERIMETER SWALES
- DIVERSION DIKE AND SWALE COMBINATION
- PIPE SLOPE DRAINS
- CONCRETE FLUMES
- ROCK BEDDING AT CONSTRUCTION EXIT
- TIMBER MATTING AT CONSTRUCTION EXIT
- CHANNEL LINERS
- SEDIMENT TRAPS
- SEDIMENT BASINS
- STORM INLET SEDIMENT TRAP
- STONE OUTLET STRUCTURES
- CURBS AND GUTTERS
- STORM DRAINS
- VELOCITY CONTROL DEVICES
- VEGETATED SWALES & NATURAL DEPRESSIONS

OTHER: _____

NARRATIVE – SEQUENCE OF CONSTRUCTION (STORM WATER MANAGEMENT) ACTIVITIES:

1. INSTALL TEMPORARY EROSION AND SEDIMENT CONTROLS (e.g. SILT FENCE AND STABILIZED CONSTRUCTION ENTRANCE) ;
2. PERFORM CLEARING AND GRUBBING;
3. EXCAVATION FOR UTILITIES;
4. COMPLETE STREET AND LOT GRADING;
5. CONSTRUCTION OF SUBDIVISION IMPROVEMENTS; AND,
6. WHEN ALL CONSTRUCTION ACTIVITY RELATED IN DEVELOPMENT OF THE SITE IS COMPLETE, REMOVE TEMPORARY CONTROLS IN 1. ABOVE.

SWPPP GENERAL NOTES:

1. PLACEMENT OF SILT FENCE SHALL BE ADJUSTED AS NECESSARY TO PREVENT THE BLOCKING OF DRIVEWAYS OR DRIVING LANES.
2. THE SWPPP MANUAL IDENTIFIES THE DUTIES AND RESPONSIBILITIES OF THE GENERAL CONTRACTOR IN COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS. THIS ITEM SHALL BE SUBSIDIARY TO THE SWPPP BEST MANAGEMENT PRACTICES (COMPLETE IN PLACE) ITEMS. THE SWPPP PROJECT MANUAL IS AVAILABLE FOR REVIEWING AT THE CITY OF EL PASO-ENGINEERING DEPARTMENT. UPON SELECTION, THE CONTRACTOR WILL BE PROVIDED AN SWPPP MANUAL. THE CONTRACTOR SHALL MAINTAIN THIS MANUAL AT THE CONSTRUCTION SITE AT ALL TIMES THROUGHOUT THE CONSTRUCTION PERIOD.
3. THE CONTRACTOR SHALL COMPLETE AND SUBMIT ALL REGULATORY FORMS AND APPLICATIONS, AS PROVIDED IN THE SWPPP MANUAL, INCLUDING, BUT NOT LIMITED TO, NOI, NOT, SDPCP, AND ANY OTHER FORM REQUIRED BY THE CITY OF EL PASO AND TCEQ.
4. ALLOWABLE STORM WATER AND NON-STORMWATER DISCHARGE SHALL COMPLY WITH 15.20.080 (GENERAL PROHIBITION) AND 15.20.090 (SPECIFIC PROHIBITIONS AND REQUIREMENTS) OF THE CITY OF EL PASO STORM DRAIN POLLUTION CONTROL PLAN ORDINANCE. NON-STORMWATER DISCHARGES MAY CONSIST OF, BUT ARE NOT LIMITED TO, THE DISCHARGE RESULTING FROM FIREFIGHTING, LAWN WATERING, LANDSCAPE IRRIGATION, NATURAL SPRING, AND/OR AGRICULTURAL STORM WATER RUNOFF.
5. REFER TO DRAINAGE PLAN, FOR DETAILED INFORMATION ON WATERSHED AREAS AND RUNOFF QUANTITIES (Q).
6. THE FOLLOWING HAVE BEEN IDENTIFIED AS POTENTIAL CONTAMINATION SOURCES: CLEARED AND GRADED AREAS; CONSTRUCTION SITE ENTRANCE AND ASPHALT PARKING AREA CONSTRUCTION; ASPHALT LOADING/UNLOADING AREAS; CONCRETE LOADING/UNLOADING AREAS; AND, ALL UNDISTURBED AREAS.
7. THE FOLLOWING IS A LIST OF POTENTIAL CONSTRUCTION SITE STORM WATER POLLUTANTS: ASPHALT; CONCRETE; GLUE/ADHESIVE; PAINTS; CURING COMPOUNDS; WASTEWATER FROM CONSTRUCTION EQUIPMENT WASHING; HYDRAULIC OIL/FLUIDS; GASOLINE; DIESEL FUEL; KEROSENE; ANTIFREEZE/COOLANT; AND EROSION.

BEST MANAGEMENT PRACTICES CONTROLS

1. STRUCTURAL MEASURES SHALL BE MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT IN EFFECTIVE OPERATING CONDITION.
2. DOCUMENTATION OF MAINTENANCE ACTIVITIES INCLUDING FREQUENCY, LOT DESIGNATION, INSPECTION OF STRUCTURAL CONTROLS, MATERIAL STORAGE AREAS, VEHICLES ENTRANCE AND EXITS: ACTIONS TAKEN AND INSPECTORS NAME.
3. CONSTRUCTION SITE NOTICE WILL BE MAINTAIN ON SITE.
4. COPY OF SWPPP SHALL BE KEPT ON SITE.
5. PERIMETER MUST RETAIN THE SWPS NOI AND INSPECTION LOG FOR A MINIMUM OF 3 YEARS FROM THE TERMINATION AND FINAL STABILIZATION OF PROJECT.

I. WASTE MATERIALS:
 ALL WASTE MATERIALS, INCLUDING CONSTRUCTION DEBRIS, SHALL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. NO CONSTRUCTION WASTE MATERIAL SHALL BE BURIED ON SITE. THE TRANSIT DUMPSTER SHALL COMPLY WITH ORDINANCE 18.52.010 (ENCLOSURE AND REMOVAL OF WASTE MATERIALS DURING CONSTRUCTION). THE DUMPSTER SHALL BE EMPTIED AS NECESSARY OR AS REQUIRED BY ORDINANCE 9.04 (SOLID WASTE MANAGEMENT) AND THE TRASH SHALL BE HAULED TO A LICENSED LANDFILL.

II. HAZARDOUS WASTE:
 AT A MINIMUM, ANY PRODUCTS IN THE FOLLOWING CATEGORIES SHALL BE CONSIDERED HAZARDOUS: PAINT, ACIDS FOR CLEANING MASONRY SURFACES, CLEANING SOLVENTS, ASPHALT PRODUCTS, CHEMICAL ADDITIVES FOR SPILL STABILIZATION, CURING COMPOUNDS AND ADDITIVES. IN THE EVENT OF A SPILL WHICH MAY BE HAZARDOUS, THE CONTRACTOR SHALL TAKE IMMEDIATE ACTION AND CONTACT THE FIRE DEPT. AND TNRC.

III. SANITARY WASTE:
 ALL SANITARY WASTE SHALL BE COLLECTED FROM THE CONSTRUCTION PORTABLE UNITS AS NECESSARY OR AS REQUIRED, CHAPTER 18.08 (BUILDING CODE), BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR. ALL WASTE MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

IV. SPILL PREVENTION:
 THE FOLLOWING PRACTICES SHALL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURES OF MATERIALS TO STORM WATER RUNOFF.

V. GOOD HOUSEKEEPING:
 A. STORE ONLY ENOUGH PRODUCTS REQUIRED TO DO THE JOB
 B. NEATLY STORE MATERIALS ON-SITE IN AN ORDERLY MANNER
 C. KEEP PRODUCTS IN THEIR ORIGINAL CONTAINER
 D. DO NOT MIX SUBSTANCES WITH ONE ANOTHER, UNLESS OTHERWISE RECOMMENDED BY THE MANUFACTURER
 E. USE ENTIRE CONTENTS OF A PRODUCT BEFORE DISPOSING THE CONTAINER
 F. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL

VI. HAZARDOUS PRODUCTS:
 PRACTICES USED TO REDUCE RISKS:
 A. KEEP PRODUCTS IN THEIR ORIGINAL CONTAINER IF AT ALL POSSIBLE
 B. RETAIN ORIGINAL LABELS, PRODUCT INFORMATION AND MATERIAL SAFETY DATA SHEETS (MSDS)
 C. DISPOSE SURPLUS PRODUCT IN ACCORDANCE WITH MANUFACTURER'S OR LOCAL & STATE RECOMMENDED METHODS

VII. PETROLEUM PRODUCTS:
 ALL ON-SITE VEHICLES SHALL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS SHALL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ON-SITE SHALL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATION.

VIII. SPILL CONTROL PRACTICES:
 A. MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP SHALL BE CLEARLY POSTED AND SITE PERSONNEL SHALL BE MADE AWARE OF THE PROCEDURES
 B. MATERIALS AND EQUIPMENT NECESSARY FOR CLEANUP SHALL BE KEPT IN THE MATERIAL STORAGE AREA ON-SITE
 C. ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY
 D. SPILL AREA SHALL BE WELL VENTILATED AND APPROPRIATE CLOTHING WILL BE WORN
 E. ANY SPILL SHALL BE REPORTED TO THE APPROPRIATE GOVERNMENTAL AGENCY
 F. MEASURES SHALL BE TAKEN TO PREVENT A SPILL FROM REOCCURRING

IX. MAINTENANCE AND INSPECTION PROCEDURES:
 ALL POLLUTION PREVENTION MEASURES SHALL BE INSPECTED AT LEAST ONCE A MONTH OR WITHIN 24-HOURS PRIOR TO ANTICIPATED STORM EVENT AND FOLLOWING A STORM EVENT OF 0.5 INCHES OR MORE. INSPECTION IN FINAL STABILIZED AREAS OR DURING ARID PERIODS WILL BE CONDUCTED MONTHLY, BEST MANAGEMENT PRACTICES AND POLLUTION CONTROL PROCEDURES SHALL BE INSPECTED FOR ADEQUACY.

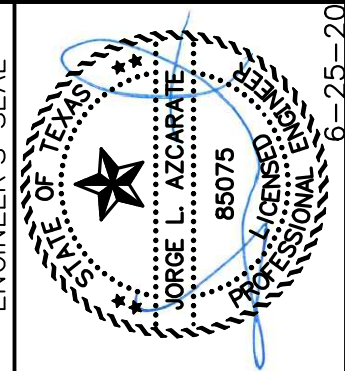
X. REMARKS:
 DISPOSAL AREAS, STOCKPILES, AND HAUL ROADS SHALL BE CONSTRUCTED IN A MANNER THAT WILL MINIMIZE AND CONTROL THE AMOUNT OF SEDIMENT THAT MAY ENTER RECEIVING WATERS. DISPOSAL AREAS SHALL NOT BE LOCATED IN ANY WETLAND, WATERBODY OR STREAMBED. CONSTRUCTION STAGING AREAS AND VEHICLE MAINTENANCE AREAS SHALL BE CONSTRUCTED BY THE CONTRACTOR IN A MANNER TO MINIMIZE THE RUNOFF OF POLLUTANTS. ALL WATERWAYS SHALL BE CLEANED AS SOON AS PRACTICABLE OF TEMPORARY EMBANKMENT, TEMPORARY BRIDGES, MATTING, FALSEWORK, PILING DEBRIS OR OTHER OBSTRUCTIONS PLACED DURING CONSTRUCTION OPERATIONS THAT ARE NOT A PART OF THE FINISHED WORK.

XI. OFFSITE VEHICLE TRACKING:
 IN ADDITION TO THE STABILIZED CONSTRUCTION ENTRANCES, THE FOLLOWING MEASURES SHALL BE OBSERVED DURING CONSTRUCTION:
 • HAUL ROADS SHALL BE DAMPENED FOR DUST CONTROL
 • LOADED HAUL TRUCKS SHALL BE COVERED WITH TARPAULIN
 • EXCESS DIRT ON ROAD SHALL BE REMOVED IMMEDIATELY
 • STABILIZED CONSTRUCTION ENTRANCE
 • OTHER: _____

XI. REFER TO SWPPP MANUAL FOR ADDITIONAL INFORMATION

REFERENCES – BENCHMARKS	CITY MONUMENT LOCATED AT THE CENTERLINE INTERSECTION OF CLOVERDALE DRIVE AND PALOMINO STREET, THE NORTH AMERICAN VERTICAL DATUM IS ELEVATION = 3939.32 (NAD 86).
DATE	
REVISIONS	
BY	

813 N. Kansas St.
 Suite 300
 El Paso, TX 79902
 915.544.5232
 www.ceagroup.net
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GROUP
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SCALE	N/A
Horizontal	N/A
Vertical	N/A
Contour Interval	N/A
DATE	JUNE 2020
DESIGN BY	R.O.
DRAWN BY	F.Z.
CHKD. BY	F.Z.
APPVD. BY	J.L.A.
JOB No.	2000-223

PROJECT TITLE

HIDDEN VILLAGE UNIT TWO SUBDIVISION IMPROVEMENTS

SHEET TITLE

STORM WATER POLLUTION PREVENTION PLAN: GENERAL NOTES

SHEET NO.

C14.1

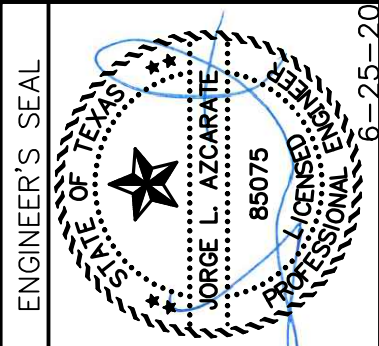
UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5500
MCI SURVEILLANCE	(800) MCI-WORK
TIME WARNER COMMUNICATIONS	(915) 772-1123
TEXAS GAS SERVICE	(915) 680-7200
SBC	(800) 945-6005
AT&T	(800) 852-3786
U.S. SPRINT TELECOMM	(800) 521-0579

WARNING!
BEFORE YOU DIG
CALL 811
FOR FIELD LOCATING EXISTING UTILITIES

DATE	REVISIONS	BY

REFERENCES - BENCHMARKS
CITY MONUMENT LOCATED AT THE CENTERLINE INTERSECTION OF CLYDESDALE DRIVE AND PALMOLINO STREET, THE NORTH AMERICAN VERTICAL DATUM IS ELEVATION = 3939.32 (NAD 86).

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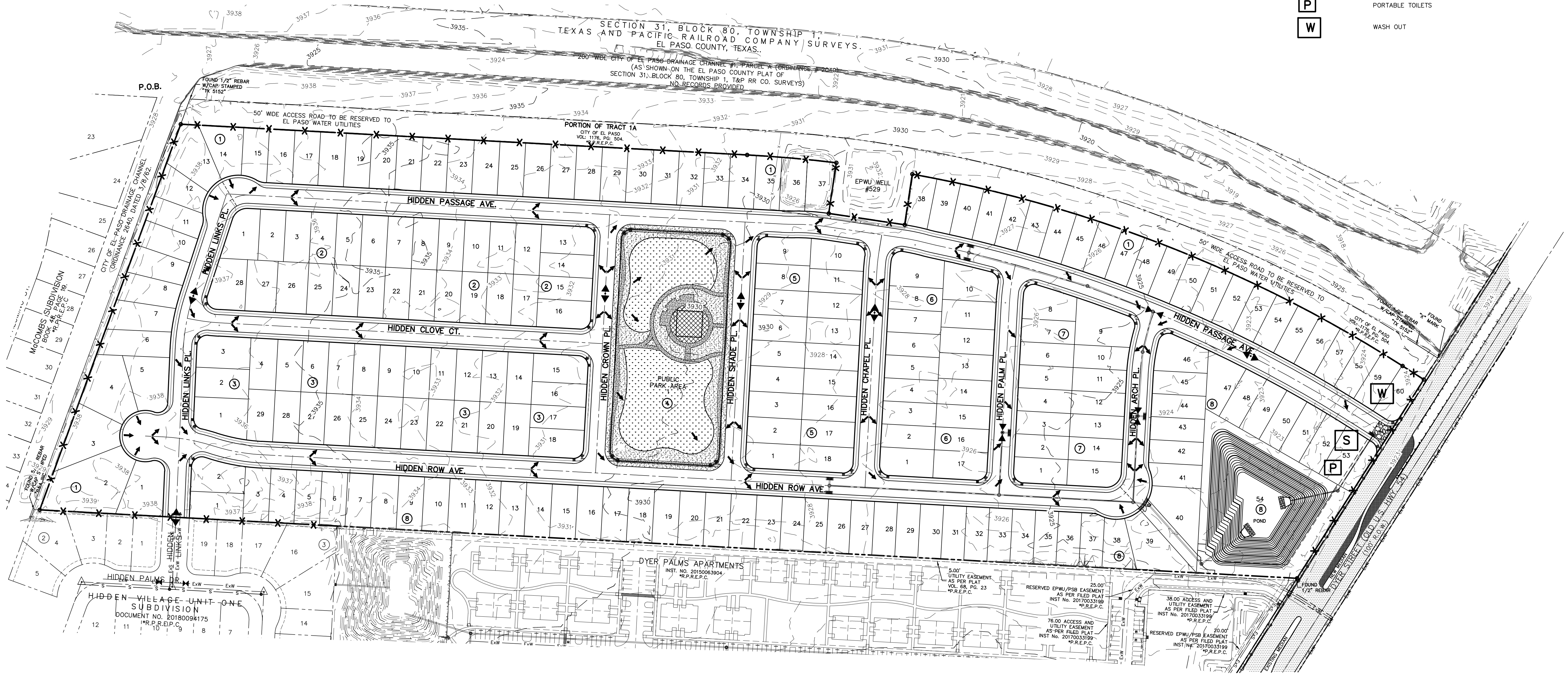
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Contour Interval: N/A
DATE: JUNE 2020
DESIGN BY: R.O.
DRAWN BY: F.Z.
CHKD. BY: J.L.A.
APPVD. BY: J.L.A.
JOB No. 2000-223

PROJECT TITLE
**HIDDEN VILLAGE
UNIT TWO
SUBDIVISION IMPROVEMENTS**

SHEET TITLE
**STORM WATER
POLLUTION
PREVENTION PLAN:
SITE PLAN**

SHEET NO.
C14.2

- SILT FENCE
- STABILIZED CONSTRUCTION ENTRANCE
- STAGING AREA
- PORTABLE TOILETS
- WASH OUT



SITE PLAN
SCALE: 1" = 100'



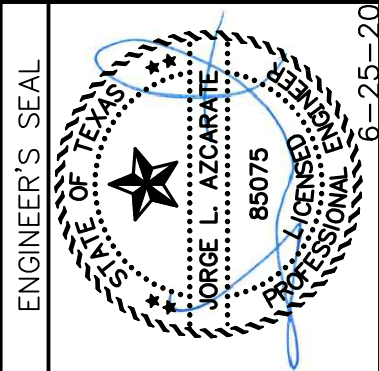
Oscar Villalobos 07/01/2020
BY DATE

UTILITY LOCATOR SERVICES	
EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
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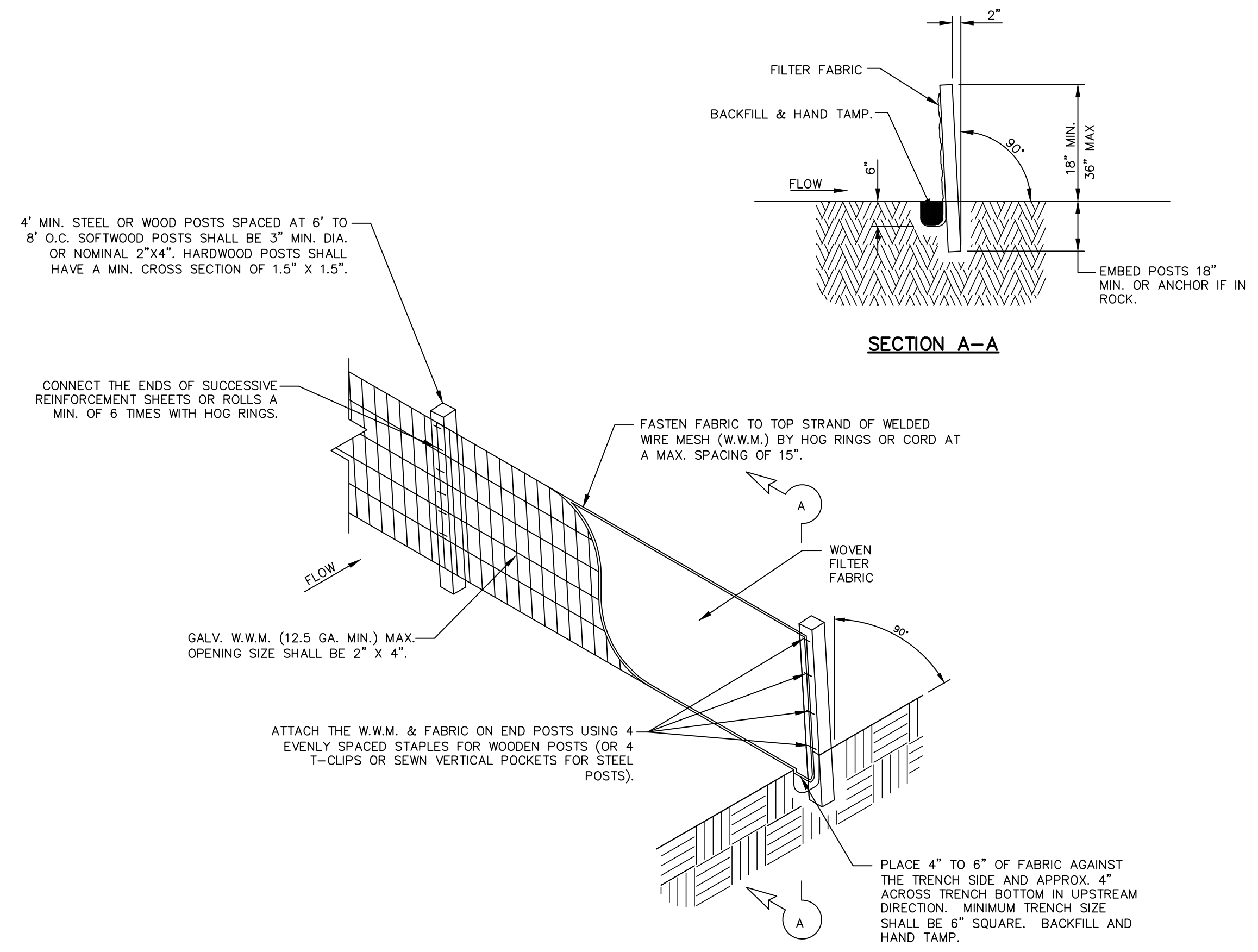
WARNING!
BEFORE YOU DIG
CALL 811
FOR FIELD LOCATING EXISTING UTILITIES

DATE	REVISIONS	BY

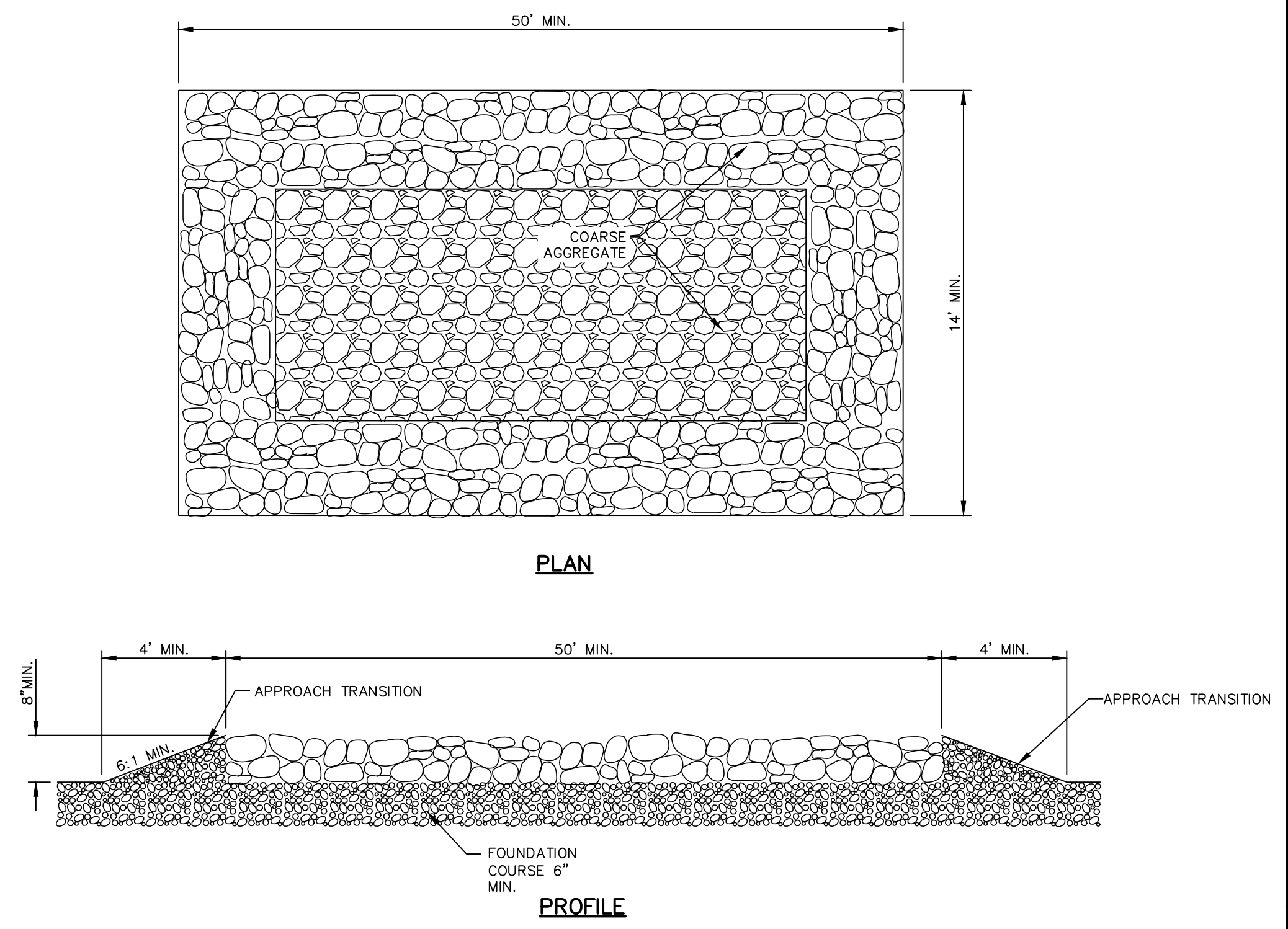
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SCALE	N/A
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Vertical:	N/A
Contour Interval:	N/A
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DRAWN BY:	F.Z.
CHKD. BY:	F.Z.
APPVD. BY:	J.L.A.
JOB No.:	2000-223



TEMPORARY SEDIMENT CONTROL FENCE

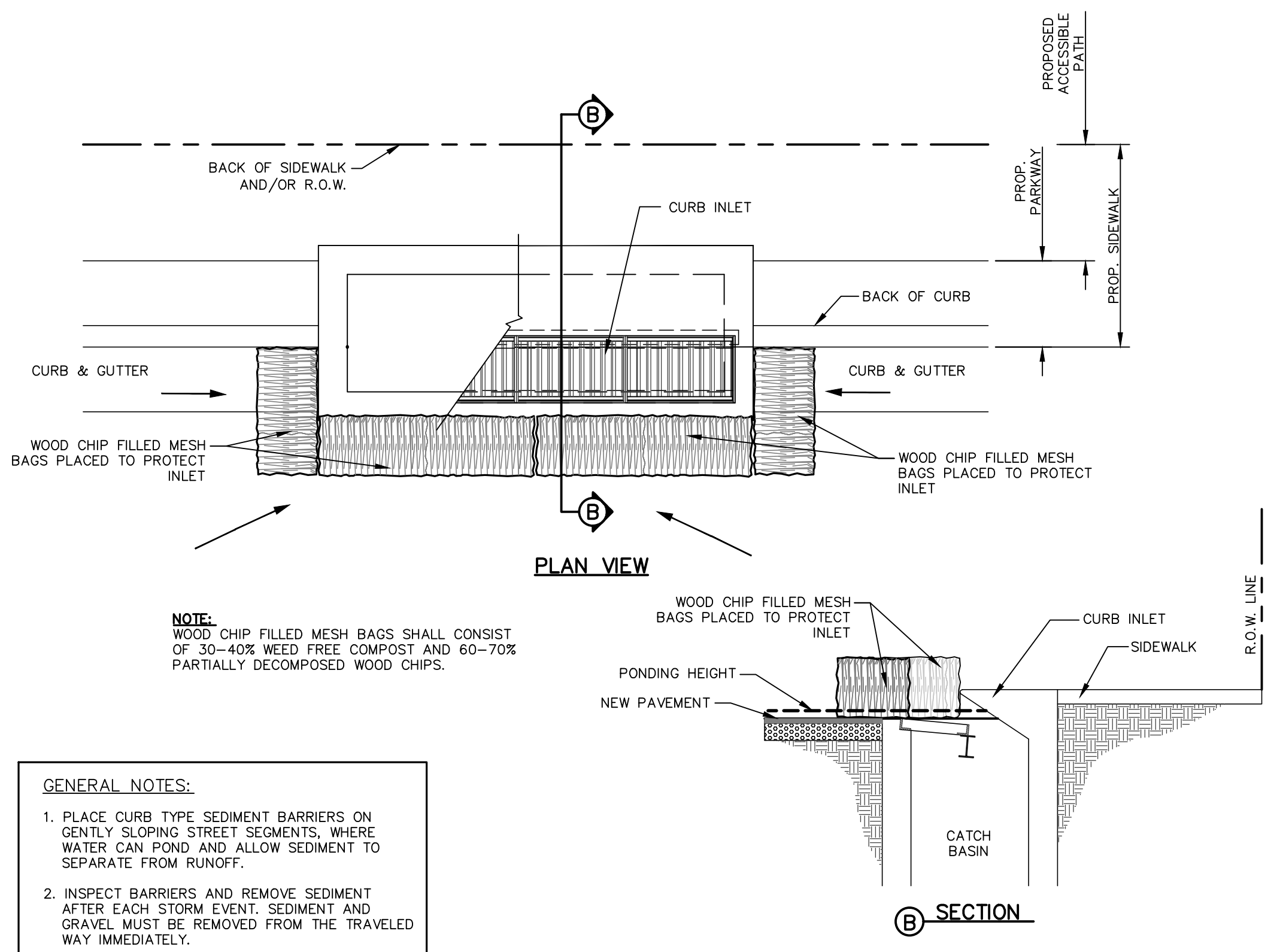


GENERAL NOTES

- THE LENGTH OF THE TYPE 1 CONSTRUCTION EXIT SHALL BE AS INDICATED ON THE PLANS, BUT NOT LESS THAN 50'.
- THE COARSE AGGREGATE SHOULD BE OPEN GRADED WITH A SIZE OF 4" TO 8".
- THE APPROACH TRANSITIONS SHOULD BE NO STEEPER THAN 6:1 AND CONSTRUCTED AS DIRECTED BY THE ENGINEER.
- THE CONSTRUCTION EXIT FOUNDATION COURSE SHALL BE FLEXIBLE BASE, BITUMINOUS CONCRETE, PORTLAND CEMENT CONCRETE OR OTHER MATERIAL AS APPROVED BY THE ENGINEER.
- THE CONSTRUCTION EXIT SHALL BE GRADED TO ALLOW DRAINAGE TO A SEDIMENT TRAPPING DEVICE.
- THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.



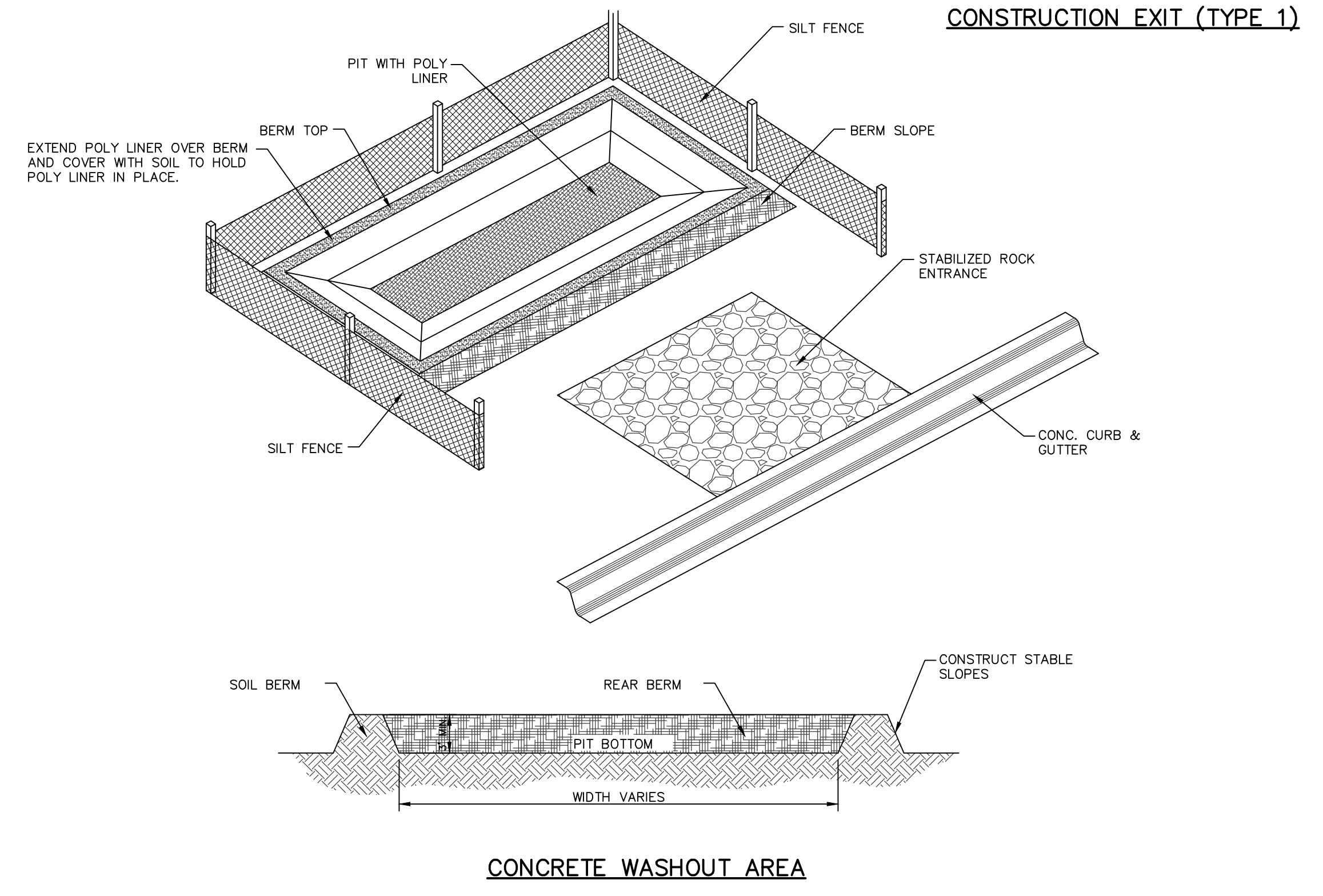
Oscar Villalobos 07/01/2020
BY DATE



TEMPORARY INLET PROTECTION

GENERAL NOTES:

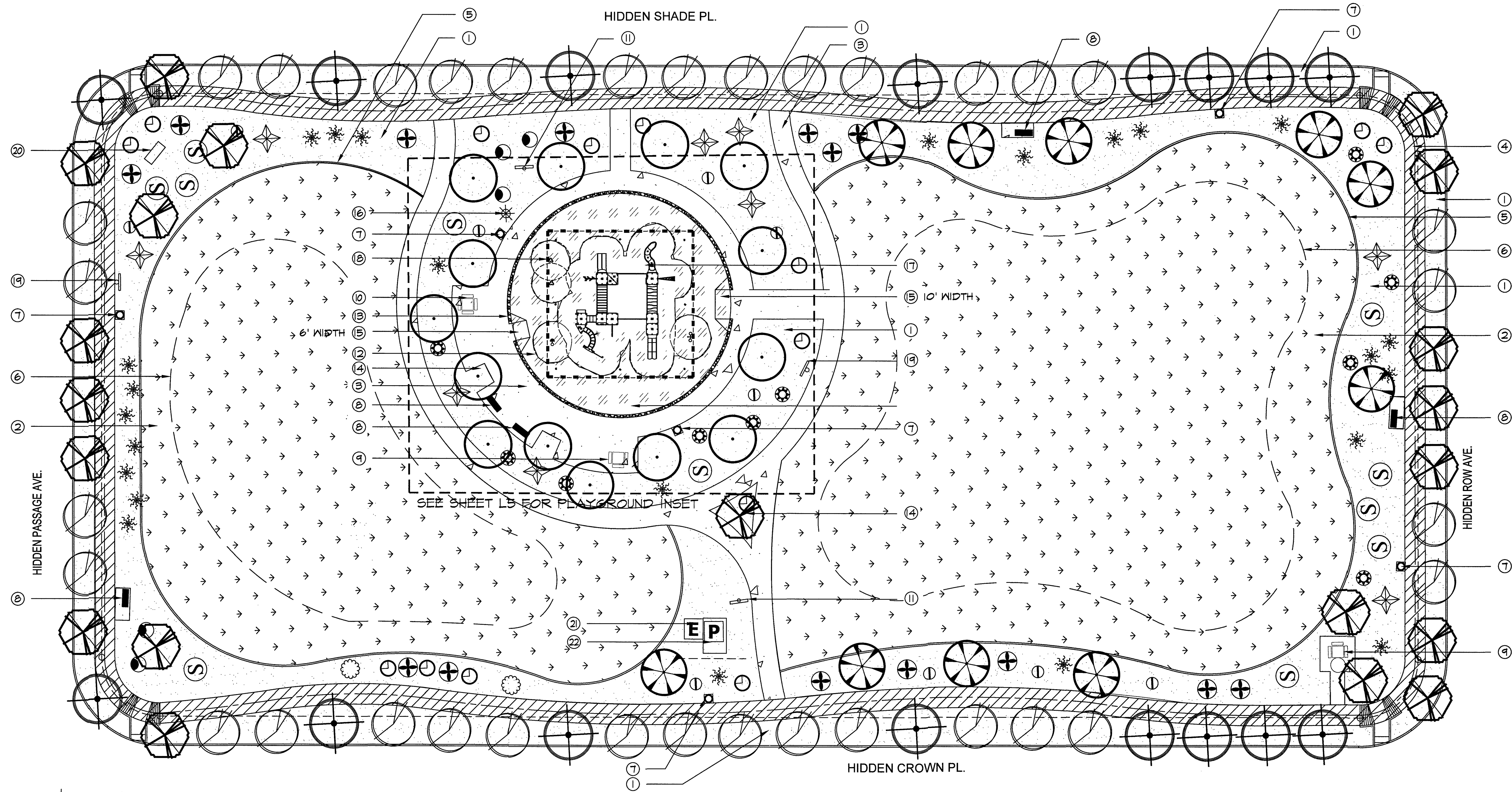
- PLACE CURB TYPE SEDIMENT BARRIERS ON GENTLY SLOPING STREET SEGMENTS, WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNOFF.
- INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT. SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.



PROJECT TITLE
**HIDDEN VILLAGE
UNIT TWO
SUBDIVISION IMPROVEMENTS**

SHEET TITLE
**STORM WATER
POLLUTION
PREVENTION PLAN:
DETAILS**

SHEET NO.
C14.3



PLAN VIEW - PLANTING AND MATERIALS

SCALE: 1" = 20' - 0"

PARK MATERIAL LEGEND AND DETAIL KEY:

	1. FRANKLIN RED GRAVEL CRUSHER FINES 3" DEPTH 2" BELOW ALL CONCRETE SURFACES. USE WEED BARRIER. PROJECT TOTAL [51265 SF] SEE DETAIL (C) ON SHEET L1.
	2. SANTA ANA BERMUDA GRASS. PROJECT TOTAL [50114 SF] TOP OF SOD 2" BELOW TOP OF SIDEWALK AND CONCRETE HEADER CURB. SEE DETAIL (C) ON SHEET L1.
	3. 7"-0" PARK CONCRETE WALKWAY, PATIO, BENCH & TABLE PADS. PROJECT TOTAL [6481 SF] SEE DETAIL (C) ON SHEET L1.
	4. SUBDIVISION 7"-0" CONCRETE WALKWAY BY DEVELOPER. PROJECT TOTAL [1622 SF] SEE DETAIL (C) ON SHEET L1.
	5. 6"X12" CONCRETE HEADER CURB. PROJECT TOTAL [1000 LF] SEE DETAIL (E) ON SHEET L1.
	6. 6'-0" RECESSED AREA FOR WATER HARVESTING PARKS AND RECREATION REPRESENTATIVE MUST APPROVE GRADING PRIOR TO INSTALLING SOD OR GRAVEL.
	7. 480-32-P10 TRASH RECEPTACLE. PROJECT TOTAL [6] BLUE - INSTALL PER MANUFACTURER'S RECOMMENDATIONS SEE DETAIL (A) ON SHEET L1.
	8. 6"-0" DIAMOR 54 SERIES SURFACE MOUNT. TOTAL [5] FOREST GREEN. INSTALL PER MANUF. RECOMMENDATIONS FOR ADA BENCH SEE DETAIL (1) ON SHEET L8.
	9. SHADED ACCESSIBLE PICNIC TABLE - PROJECT TOTAL [2] ORS HAWAIIAN 8X8 COVERED TABLE. 4 SEATS. COLORS TO BE APPROVED BY PARKS. SEE DETAIL (1) AND (2) ON SHEET L8.
	10. SHADED PICNIC TABLE - PROJECT TOTAL [1] ORS HAWAIIAN 8X8 COVERED TABLE. 4 SEATS. COLORS TO BE APPROVED BY PARKS. SEE DETAIL (1) AND (2) ON SHEET L8.
	11. PARK INFORMATION SIGN - LOCATION SHALL BE APPROVED BY PARKS DEPT REPRESENTATIVE. PROJECT TOTAL [2] SEE DETAIL (C) ON SHEET L8.

	12. ENGINEERED FIBER WOOD CHIPS. INSTALL PER MANUFACTURER'S SPECIFICATIONS. PROJECT TOTAL [3582 SF] PLACE 18" DEPTH OF CHIPS AND COMPACT TO 12" DEPTH.
	13. 18" HT. ROCK WALL. PROJECT TOTAL [222 LF] SEE DETAILS (D) AND (E) ON SHEET L8.
	14. PLANTING SPACE IN FRANKLIN RED CRUSHER FINES.
	15. ADA ACCESSIBLE PLAYGROUND RAMP. SEE DETAIL (C) ON SHEET L8.
	16. AERIAL LIGHTING - 30' HIGH PRE-STRESSED CONCRETE DIRECT BURY POLE LED FIXTURES AND LAMPS. MUST COMPLY WITH CITY OF EL PASO MUNICIPAL CODE FOR OUTDOOR LIGHTING SECTION 18.18. PROJECT TOTAL [1] SEE ENGINEER'S DWG SET FOR PERIMETER LIGHTING INFORMATION.
	17. PLAY STRUCTURES - LANDSCAPE STRUCTURES PLAYBOOSTER COLORS - TANGERINE, PLUM, LIMON, LIMON COLOR PALATTE. MUST BE APPROVED BY PARKS PRIOR TO ORDERING. SEE SHEET L5 FOR MORE INFORMATION.
	18. CLASSIC RECREATION "MESA" SHADE STRUCTURE 50 X 50 COLORS - SPECIFIED BY PARKS. FOOTINGS SHALL BE ENGINEERED BY THE MANUFACTURER AND DRAWINGS SHALL BE APPROVED BY PARKS PRIOR TO ORDERING. SEE PDF MESA 50 X 50 WITH SUBMITTAL.
	19. SUPERIOR PET WASTE ELIMINATOR STATION - SKIM EB WWW.PETWASTEELIMINATOR.COM (TTY: 2) INSTALL PER MANUFACTURER'S INSTRUCTIONS. SEE DETAIL (C) ON SHEET L8.
	20. PARK MONUMENT SIGN SEE DETAIL (H5) ON SHEET L1.
	21. ELECTRIC METER
	22. PUMP HOUSE

QUANTITIES ARE PROJECT TOTALS - VERIFY! PLANS TAKE PRECEDENCE

PLANT LEGEND/SCHEDULE

SYM	KEY	COMMON NAME	BOTANICAL NAME	CONT.	MIN SPACING	QUANT.	SIZE	REMARKS
(C)	CS	CIMARRON SAGE-BLUE RANGER	LEUCOPHYLLUM ZYGOPHYLLUM CIMARRON	5 GAL	6'	31	18" HT	OO
(R)	RY	RED YUCCA	HESPERALOE PARVIFLORA	5 GAL	4'	14	18" HT	OO
(S)	SE	SILVER CASSIA	SENNA ARTEMISOIDES	5 GAL	8'	11	4" HT	OO
(Y)	YL	NEW GOLD YELLOW LANTANA	LANTANA X NEW GOLD	5 GAL	3'	14	12" HT	OO
(M)	RM	REGAL MIST MUHLY	MULLENBERGIA CAPILLARIS 'REGAL MIST'	5 GAL	6'	11	18" HT	OO
(F)	FF	PINK PARADE HESPERALOE	HESPERALOE FUNIFERA X PARVIFLORA	5 GAL	4'	24	18" HT	OO
(B)	YB	YELLOW BELLS	TECOMA STANS VAR. ANGSTATA	5 GAL	8'	2	18" HT	OO
(T)	TB	TURFENTINE BUSH	ERICAMERIA LARICIFOLIA	5 GAL	4'	8	15" HT	OO
(P)	CB	DM COYOTE BUSH PIGEON POINT	BACCHARIS PILLULARIS PIGEON POINT	5 GAL	4'	1	8" HT	OO
(G)		SANTA ANA BERMUDA GRASS	C.DACTYLOM X TRANSVAALENSIS	SOD		50584 SF	N/A	LAY SOD TIGHTLY SO THAT NO LINES ARE VISIBLE TYPHANY IT MAY BE USED AS ALTERNATE

TREE LEGEND/SCHEDULE PROJECT TOTAL

SYM	KEY	COMMON NAME	BOTANICAL NAME	CONT.	SIZE	QUANT.	REMARKS
(L)	LET	LACEBARK ELM	ULMUS PARVIFOLIA	24"BOX	2' CAL-10HT-6' SPREAD	20	SINGLE-TRUNK-FULL
(P)	PFT	CHINESE PISTACHE	PISTACIA CHINENSIS	24"BOX	2' CAL-10HT-6' SPREAD	14	SINGLE TRUNK-FULL
(O)	ROT	RED OAK	QUERCUS BUCKLEYI	24"BOX	2' CAL-10HT-6' SPREAD	10	SINGLE TRUNK-FULL
(E)	GET	CEDAR ELM	ULMUS CRASSIFOLIA	24"BOX	2' CAL-10HT-6' SPREAD	16	SINGLE TRUNK - FULL
(M)	MOT	MONTERREY OAK	QUERCUS POLYMORPHA	24"BOX	2' CAL-10HT-6' SPREAD	34	SINGLE TRUNK - FULL

PROJECT MUST BE COORDINATED WITH TDLR TO INSURE COMPLIANCE WITH TAS REQUIREMENTS TO INCLUDE INSPECTION AND CERTIFICATE OF SUBSTANTIAL COMPLETION. TABS REGISTRATION # TABS2020 01 1833

APPROVED FOR CONSTRUCTION
 Karla Chavez
 7/6/2020

SK UR
 7/6/2020
 DATE

REVISIONS

DATE

LISA MCNEELIS
 LANDSCAPE ARCHITECT
 1600 FAYWOOD
 LAGO BRUCE, NEW MEXICO 88001
 (505) 621-5023

ARCHITECT'S SEAL

6/12/20

SCALE
 Horizontal: N/A
 Vertical: Interval: N/A

DATE: LM
 DESIGN BY: LM
 DRAWN BY: LM
 CHKD. BY: LM
 APPVD. BY: LM
 JOB NO.

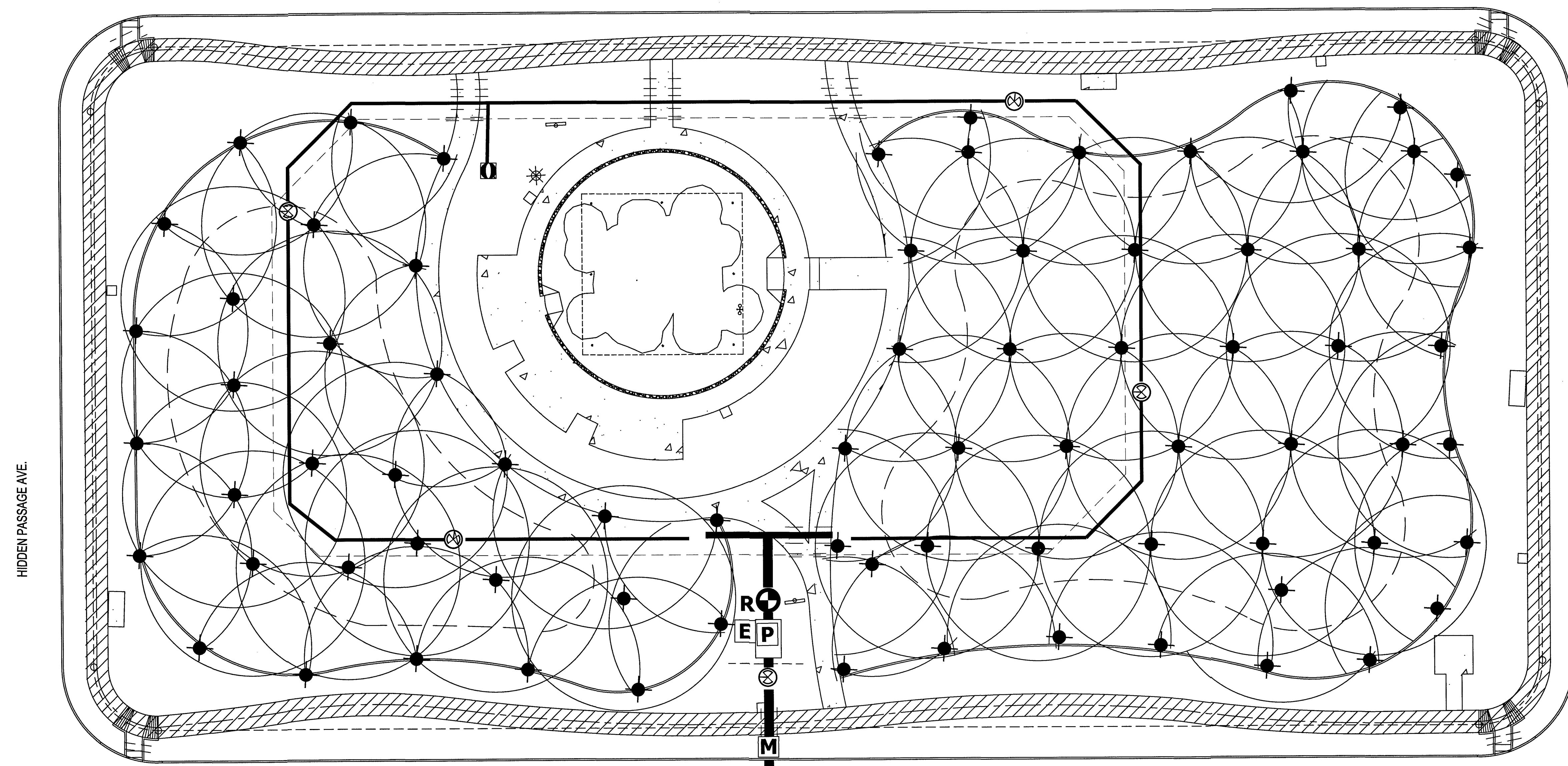
PROJECT TITLE
HIDDEN CROWN PARK
 HIDDEN CROWN PLACE
 LOT 1, BLOCK 4
 HIDDEN VILLAGE UNIT 2 SUBDIVISION
 CITY OF EL PASO, EL PASO, TEXAS
 AREA: 96074.14 SQ.F.T. - 2.205 ACRES

SHEET TITLE
L2
 PARK PLANTING
 AND MATERIALS

SHEET 2 OF 12



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



PLAN VIEW - SPRAY PATTERN
 SCALE: 1" = 20' - 0"

IRRIGATION NOTES

- IRRIGATION PLAN IS DIAGNOSTIC IN NATURE. CONTRACTOR SHALL BE RESPONSIBLE FOR ACCOMPLISHING FULL COVERAGE IN ALL AREAS WITH SPECIFIED EQUIPMENT. ANY DISCREPANCIES IN THE PLAN SHOULD BE BROUGHT TO THE PROJECT MANAGER'S ATTENTION DURING CONSTRUCTION.
- ALL FITTINGS AND NECESSARY EQUIPMENT REQUIRED TO MAKE THIS IRRIGATION SYSTEM OPERATE PROPERLY AND TO COMPLY WITH LOCAL AND STATE CODES ARE INCIDENTAL TO THESE PLANS AND ARE THE CONTRACTOR'S RESPONSIBILITY.
- CONTRACTOR WILL BE HELD LIABLE FOR GAINING ACCESS UNDER ALL PAVEMENTS.
- SLEEVES SHOWN ON THE PLANS SHOULD BE VERIFIED FOR ACCESSIBILITY AND FEASIBILITY BEFORE BID IS MADE.
- THE CONTRACTOR SHALL LOCATE AND VERIFY EACH WATER TAP TO WHICH THE IRRIGATION SYSTEM WILL CONNECT. ALL EQUIPMENT AND INSTALLATION METHODS SHALL COMPLY WITH THE STANDARDS OF THE CITY OF EL PASO AND THE SPECIFICATIONS.
- CONTRACTOR IS RESPONSIBLE FOR ALL CONNECTIONS AND VALVES REQUIRED FOR THE FULL IMPLEMENTATION OF THE SYSTEM.
- THE CONTRACTOR SHALL LOCATE AND VERIFY THE EXISTENCE OF ALL UTILITIES PRIOR TO INITIATING WORK.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGE OR INTERRUPTION IN SERVICE CAUSED BY HIS EXCAVATIONS AND/OR WORK.
- EACH CONTROLLER WILL HAVE AN INDEPENDENT COMMON WIRE LOOPED TO THE VALVES CONNECTED TO IT.
- REMOTE CONTROL VALVE WIRES ARE TO BE IN A SEPARATE TRENCH 5' FROM MAIN LINE ON NORTH OR WEST SIDE OF MAINLINE.
- ALL REMOTE CONTROL VALVE WIRES NEED TO BE LABELED AT VALVE W/ WEATHER (WATER) PROOF LABELS AND AT CONTROLLER WITH CORRESPONDING LABEL. (LETTER AND/OR NUMBER TAGS IN SEQUENTIAL ORDER WILL BE PROVIDED).
- SPLICING OF REMOTE CONTROL VALVE WIRES IS NOT ALLOWED BETWEEN CONTROLLER 4 VALVE BOX FOR WIRES MUST BE CONTINUOUS FROM CONTROLLER TO REMOTE CONTROL VALVE WITHOUT SPLICING.
- ALL ROTOR SPRINKLER HEADS SHALL BE ON STAINLESS STEEL RISERS WITH CHECK VALVE.
- CONTRACTOR SHALL PROVIDE SLEEVES FOR NEW IRRIGATION LINES CROSSING UNDER CONCRETE SIDEWALKS. SLEEVES SHALL BE 2 TIMES THE PIPE SIZE EXTENDED 24" BEYOND EDGE OF SURFACE, BE WRAPPED WITH MINIMUM 4 MIL PLASTIC AND TAPED WITH 3/4" BRAND HEAVY DUTY PLASTIC.

TURF IRRIGATION SYSTEM DESIGN CRITERIA

PERFORMANCE STATISTICS

1. THE FOLLOWING PERFORMANCE STATISTICS WERE CALCULATED BASED ON INFORMATION SHOWN ON THIS PLAN. CHANGES IN OPERATING PRESSURE, HEAD SPACING AND OR NOZZLE SELECTION WILL EFFECT RESULTS.

VALVES #1, #2 AND #3 MPR HEADS TOTAL AREA METHOD
 $104.46 \times 96.3 = 10054.48$ 51 "/hr
 14514 1.96 HR 118 MIN RUN TIME FOR 1" WATER

VALVES #4, #5, #6, AND #7 MPR HEADS TOTAL AREA METHOD
 $245 \times 96.3 = 23593.5$.71 "/hr
 30546 1.24 HR 77 MIN

DRIP IRRIGATION SYSTEM DESIGN CRITERIA

VALVES #8 AND #9 - 64.8 G/NEEK FOR TREES - 27 GPM SHRUBS AND 60 PLANTS - 1.2 G/NEEK - 0.36 GPM AT 240 MINUTES PER WEEK CONTROLLER SETTING.

3 DAY WATERING SCHEDULE

STATION #	VALVE COMBINATION										RUN TIME PER DAY	WATERING DAYS	RUN TIME PER WEEK	CLOCK START TIME		
	1	2	3	4	5	6	7	8	9	10						
1T	X	X									34 MIN	X	X	X	118 MIN	11:00 PM
2T	X	X									34 MIN	X	X	X	118 MIN	11:00 PM
3T		X									34 MIN	X	X	X	118 MIN	11:00 PM
4T			X								28 MIN	X	X	X	77 MIN	11:00 PM
5T				X							28 MIN	X	X	X	77 MIN	11:00 PM
6T					X						28 MIN	X	X	X	77 MIN	11:24 PM
7T						X					28 MIN	X	X	X	77 MIN	11:58 PM
8D							X	X			80 MIN	X	X	X	240 MIN	12:21 AM
9D								X	X		80 MIN	X	X	X	240 MIN	12:51 AM
TOTAL RUN TIME PER DAY OF OPERATION - DRIP											80 MIN / 1.33 HOURS					
TOTAL RUN TIME PER DAY OF OPERATION - ROTORS											224 MIN / 3.73 HOURS					
TOTAL RUN TIME PER WEEK - ROTORS											662 MIN / 11.0 HOURS					

4 DAY WATERING SCHEDULE

STATION #	VALVE COMBINATION										RUN TIME PER DAY	WATERING DAYS	RUN TIME PER WEEK	CLOCK START TIME		
	1	2	3	4	5	6	7	8	9	10						
1T	X	X									30 MIN	X	X	X	118 MIN	11:00 PM
2T	X	X									30 MIN	X	X	X	118 MIN	11:00 PM
3T		X									30 MIN	X	X	X	118 MIN	11:00 PM
4T			X								20 MIN	X	X	X	77 MIN	11:00 PM
5T				X							20 MIN	X	X	X	77 MIN	11:00 PM
6T					X						20 MIN	X	X	X	77 MIN	11:24 PM
7T						X					20 MIN	X	X	X	77 MIN	11:58 PM
8D							X	X			60 MIN	X	X	X	240 MIN	12:21 AM
9D								X	X		60 MIN	X	X	X	240 MIN	12:51 AM
TOTAL RUN TIME PER DAY OF OPERATION - DRIP											60 MIN / 1 HOURS					
TOTAL RUN TIME PER DAY OF OPERATION - ROTORS											170 MIN / 2.83 HOURS					
TOTAL RUN TIME PER WEEK - ROTORS											662 MIN / 11.0 HOURS					

WATER AUDIT

- CONTRACTOR IS RESPONSIBLE FOR OBTAINING AN IRRIGATION SYSTEM WATER AUDIT AFTER INSTALLATION IS COMPLETE.
- AUDIT MUST BE PERFORMED BY A TEXAS CERTIFIED IRRIGATION WATER AUDITOR.
- WATER AUDIT MUST BE PERFORMED IN ACCORDANCE TO THE EL PASO PARKS AND RECREATION DESIGN AND CONSTRUCTION STANDARDS FOR PARK FACILITIES.

HIDDEN ROW AVE.

HIDDEN CROWN PL.

APPROVED FOR CONSTRUCTION
 Parks & Recreation Department-Planning

KARLA GHAUZ
 SIGNATURE
 7/6/2020
 DATE

REVISIONS

DATE

ARCHITECT'S SEAL

LANDSCAPE ARCHITECT

LISA MCNELIS

1900 FOXBORO
 LAS CRUCES, NEW MEXICO 88007
 (505) 621-9052

6/12/20

SCALE

Horizontal: Vertical: Contour Interval: N/A

DATE: DESIGN BY: LM DATE: DRAWN BY: LM DATE: CHKD. BY: LM DATE: APPVD. BY: LM DATE: JOB NO.

PROJECT TITLE

HIDDEN CROWN PARK

HIDDEN CROWN PLACE
 LOT 1, BLOCK 4
 HIDDEN VILLAGE UNIT 2 SUBDIVISION
 CITY OF EL PASO, EL PASO, TEXAS
 AREA: 96074.14 SQ.FT. - 2.205 ACRES

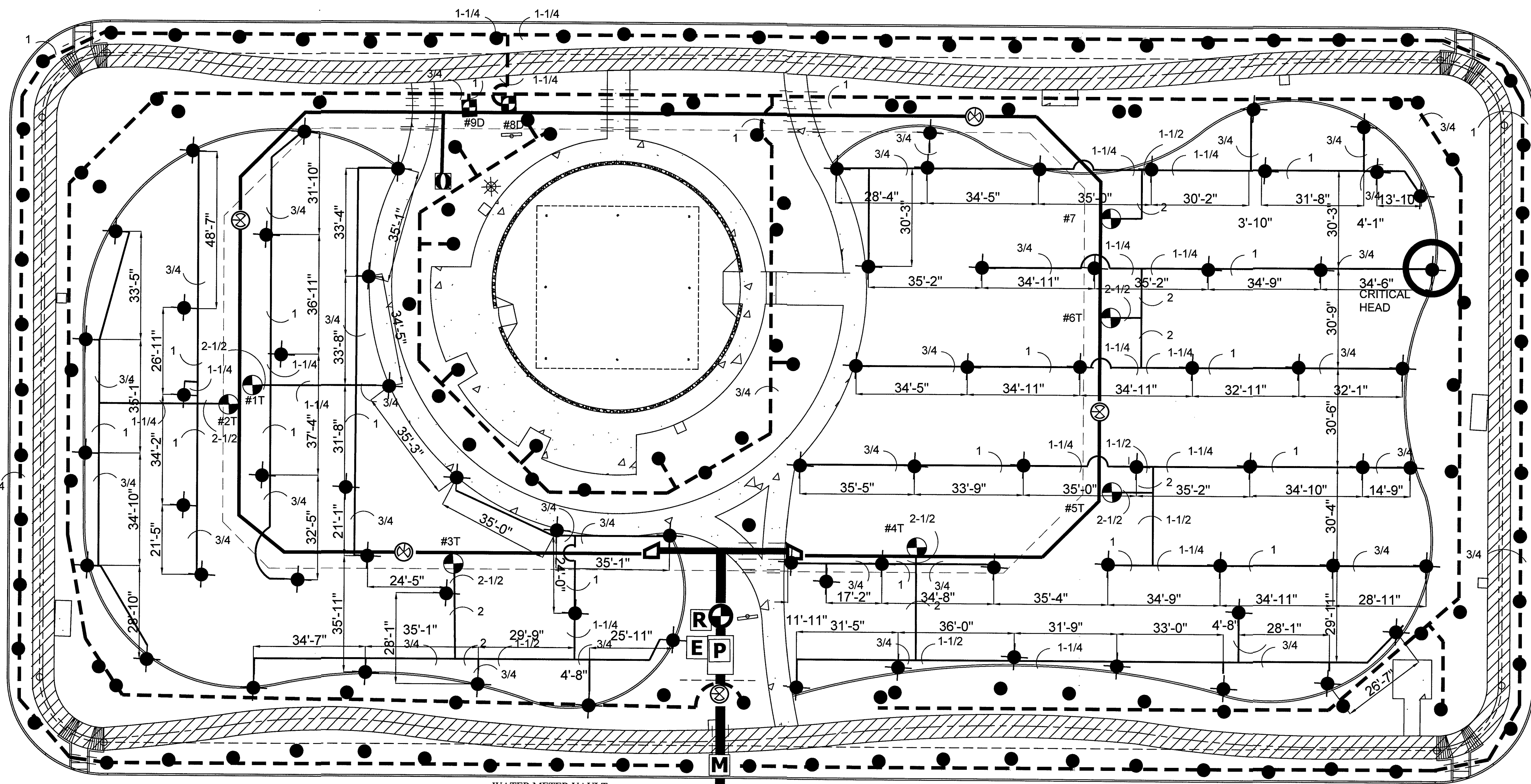
THE CITY OF EL PASO TEXAS

SHEET TITLE

L3

IRRIGATION
 SPRAY PATTERN

SHEET 3 OF 12



- VALVE NUMBER AND FULL (F) OR PART (P) TURE (T) #1F 1" VALVE SIZE
 GALLONS PER MINUTE ON THIS VALVE 107 8 NUMBER OF HEADS ON THIS VALVE
- ### MATERIAL LEGEND AND DETAIL KEY:
- 3" PRESSURE MAIN PVC SCHEDULE 40, DEPTH 18" TO TOP OF PIPE. SEE DETAIL (1) ON L4.
 - 2-1/2" PRESSURE MAIN PVC SCHEDULE 40, DEPTH 18" TO TOP OF PIPE. SEE DETAIL (1) ON L4.
 - LATERAL PVC CLASS 200, DEPTH 12" TO TOP OF PIPE. SEE DETAIL (1) ON L4.
 - DRIP LATERAL PVC CLASS 200, DEPTH 12" TO TOP OF PIPE. SEE DETAIL (1) ON L4.
 - SCH 40 SLEEVING UNDER ALL PAVED AREAS WHERE LINES ARE RUN. SLEEVES SHALL EXTEND 12" PAST PAVING. CHISEL 1" MARK IN CONCRETE CURB OR WALK TO LOCATE SLEEVE AT EACH SIDE. SIZE 2X DIA. OF PIPE TO BE SLEEVED. SEE #10 UNDER GENERAL IRRIGATION NOTES ON L1.
 - CONCENTRIC REDUCER - SET 20" FROM JUNCTION IN LOOPED MAIN.
 - FIELD WIRING SHALL BE IN THE MAIN TRENCH, 6" BELOW THE PIPE. SEE DETAIL (1) ON L4.
 - HUNTER I-20-06-55 MPR-35 NOZZLE. USE LASCO SWING JOINTS 45 PSI-6PM VARY-35" RADIUS. SEE DETAIL (1) ON L4.
 - DRIP EMITTER FOR TREES: RAINBIRD XERI-BIRD XBD-80 WITH FILTER. USE 8 X5-20PC EMITTERS PER TREE. 27 GPM LOCATE 9" AWAY ON WEST OR SOUTH SIDE OF TREE. SET IN EMITTER VALVE BOX. SEE DETAILS (2) AND (3) ON L4.
 - DRIP EMITTER FOR PLANTS: RAINBIRD XERI-BIRD XBD-80 WITH FILTER. USE 1X5-20PC EMITTER PER PLANT. DO NOT EXCEED 20" OF MICRO TUBE. PLACE EMITTER ON UPWIND SIDE OF PLANT. SET IN EMITTER VALVE BOX. SEE DETAIL (2) ON L4.
 - ELECTRIC REMOTE VALVE: WEATHERMATIC 8200CR-10 WITH XPR OPTION AND CUT-OFF BALL VALVE. SIZE ON PLAN. SEE DETAIL (4) (5) AND (6) ON L4.
 - ELECTRIC REMOTE VALVE FOR DRIP: WEATHERMATIC 8200CR-10 WITH XPR OPTION AND CUT-OFF BALL VALVE. SIZE ON PLAN. SEE DETAIL (4) ON L4 AND (1) ON L10.
 - ISOLATION GATE VALVE IN LOCKING VALVE BOX. USE STANDARD VALVE BOX DETAILS. MUST BE LOCATED 10' FROM CONCENTRIC REDUCER ON 4" PIPE. ELSEWHERE AS SHOWN ON PLANS. SEE DETAIL (2) ON L4.
 - ELECTRIC MASTER REMOTE VALVE: WEATHERMATIC 2-1/2" 8200CR-10. SEE DETAIL (4) (5) AND (6) ON L4.
 - BUCKNER 1" QUICK COUPLER - DOUBLE LUG WITH LASCO SNAP LUG WITH WALL 1X2-20PC STABILIZER ELBOW WITH CUT OFF. TO BE SET IN 12"x14" LOCKING VALVE BOX. SEE DETAIL (2) ON L10.
 - 2" METER. LOCATION ON THIS PLAN IS APPROXIMATE. FLOW: 120 GPM. DO NOT SET IN SIDEWALK. DEVELOPER OR CONTRACTOR RESPONSIBLE FOR OBTAINING METER.
 - BACKFLOW PREVENTION DEVICE: FIBCO MODEL LF860 2-1/2" REDUCED PRESSURE ZONE ASSEMBLY. LOCATED IN INFLATED PUMP ENCLOSURE. WALLS R.I.B. CEILING SHALL BE INSULATED TO R4. INSTALL TO MEET LOCAL CODES AND CITY OF EL PASO PARKS AND REC. REQUIREMENTS. SEE DETAILS (7) (8) (9) ON L11.
 - RAINBIRD ESP-12LM-DEF CONTROLLER - 4 STATIONS. MAXIMUM READY/OPERATIONAL. LOCATE IN PUMP HOUSE IN WATER-TIGHT NEMA ENCLOSURE. SEE DETAILS (10) ON L10 AND (3) ON L11.
 - BERKELEY BVM(X)IS, 2 HP PUMP. VERIFY PRIOR TO ORDERING. HOUSED IN 8"x12" TUFFSHED BRAND PREMIER SERIES ENCLOSURE. INSTALL TO MEET LOCAL CODES AND CITY OF EL PASO REQUIREMENTS. LOCATION APPROVED BY CITY OF EL PASO PARKS AND REC. DEPARTMENT. SEE DETAILS (11) - (21) ON L11.
 - RAIN CAN/ INTEGRATED CONTROL SENSOR INPUT DEVICE. MOUNTED ON POLE. SEE DETAIL (22) ON L10.
 - ALL COMPONENTS TO BE SET IN VALVE BOXES MUST CONFORM TO STANDARD INSTALLATION. SEE DETAIL (4) ON L4.

ELECTRICAL SERVICES MUST BE PROVIDED BY TEXAS LICENSED ELECTRICIAN. SKETCH/DRAWING OF PROPOSED WORK MUST BE SUBMITTED TO PARKS DEPT. OR DESIGNEE.

WATER METER VAULT SHALL NOT BE INSTALLED WITHIN SIDEWALK. KNOCKOUTS SHALL BE SEALED WITH CONCRETE OR NON SHRINK MORTAR AND COPPER PIPE WRAPPED WHERE IT ENTERS AND EXISTS THE BOX.

HIDDEN CROWN PL.

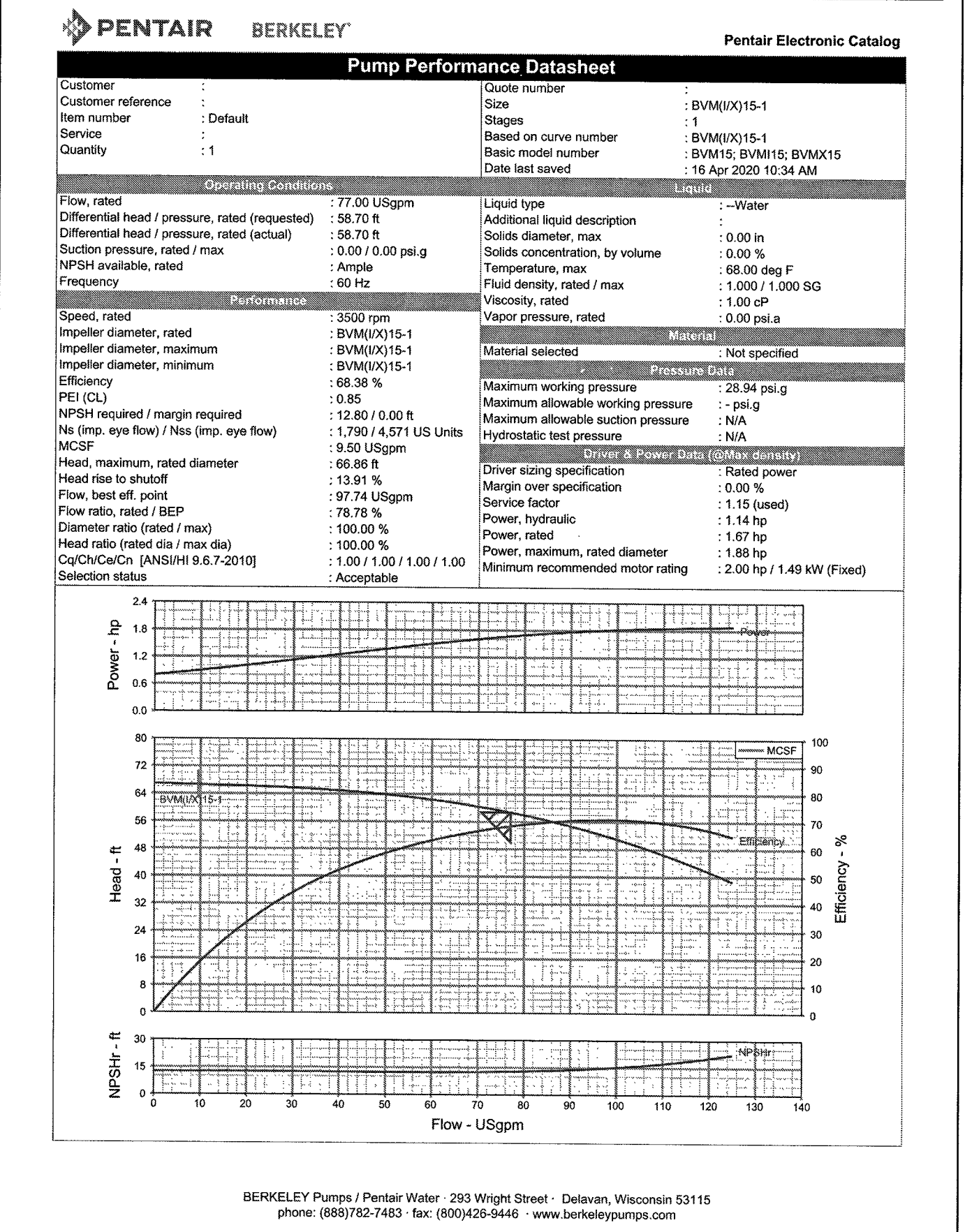
COORDINATE THE LOCATION OF ALL EQUIPMENT WITH THE CITY OF EL PASO PARKS AND REC. DEPT.

PLAN VIEW - PIPE SIZING AND LAYOUT

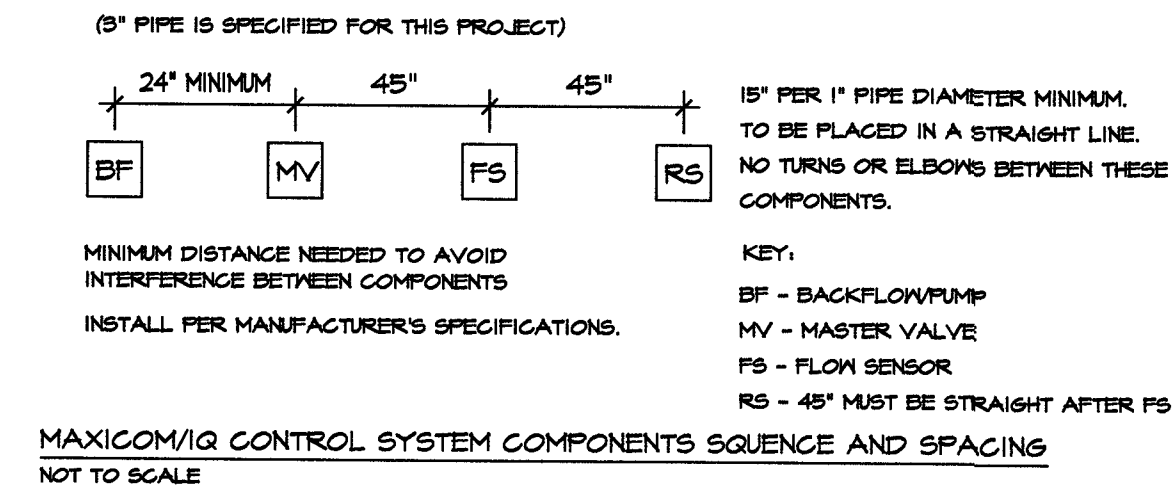
SCALE: 1" = 20' - 0"

1T 2"	2T 2"	3T 2"	4T 2"	5T 2"	6T 2.5"	7T 2"	8D 1"	9D 1"
58.63	53.21	45.64	53.29	72.07	72.07	47.56	17.28	13.39

PRESSURE LOSS CALCULATIONS							
VALVE #6	Length of Pipe (Feet)	Flow (Gal.)	Size (In.)	Pressure Loss Per 100 ft.	Pressure Loss This Item	Accumulated Pressure Loss	
CLASS 200	35	3.81	3/4"	0.88	0.3080	0.3080	
CLASS 200	35	11.39	1"	1.33	0.4655	0.7735	
CLASS 200	21	18.97	1 1/4"	1.58	0.3318	1.1053	
CLASS 200	16	34.13	2"	0.78	0.1248	1.2301	
CLASS 200	13	72.07	2 1/2"	1.25	0.1625	1.3926	
CLASS 200	0	0	0	0.00	0.0000	1.3926	
Section Pressure Losses (Sub-Total)						1.3926	
Remaining Pressure Losses							
Item	Size (In.)	Pressure Loss Per 100 Ft.	Pressure Loss This Item	Accumulated Pressure Loss			
Section Valve	72.07	2.5	1.8000	3.1926			
Mainline SCH40	180	36	2.5	0.9180	4.1106		
	80	72.07	3	0.56	4.5586		
Backflow		2	11.0000	15.5586			
Water Meter		3	6.5000	22.0586			
Copper Supply	66	72.07	3	3.63	24.4544		
Total Pressure Loss to the City Main						24.4544	
Minimum Required Head Pressure						45.0000	
STATIC Pressure						78.0000	
Actual Head Pressure						53.5456	



I have information about the FH # 11529 located at Ameen Drive & Dyer Street, 932' N. Thence 315' E (on easement).
 Sta: 78 psi
 Res: 74 psi
 GPM: 1,256



NOTE:
 FOR FINAL ACCEPTANCE, THE IRRIGATION SYSTEM MUST DEMONSTRATE IT CAN COMMUNICATE WITH, AND BE OPERATED BY THE PARK'S MAXICOM/IQ CENTRAL CONTROL COMPUTER SUPPORTING UTILITY INFRASTRUCTURE FOR THIS MUST BE INSTALLED. (MASTER VALVE, CELL SERVICE/DATA MODULE, PRESSURE REGULATOR, FLOW SENSOR, MOISTURE SENSOR, RAIN CAN IC-ID, ECT)

FIRE HYDRANT #11529 LOCATED AT AMEEN DR. AND DYER ST. - STATIC 78 PSI
 MPR-35 ARE MATCHED PRECIPITATION RATE NOZZLES.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY WATER PRESSURE, WATER SOURCE AND FLOW IN THE FIELD PRIOR TO CONSTRUCTION. SHOULD A DISCREPANCY EXIST BETWEEN DESIGN PRESSURE AND FIELD PRESSURE OR FLOW, THE LANDSCAPE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY.

THIS PLAN IS A SCHEMATIC AND DOES NOT SHOW EXACT LOCATION OR LENGTH OF PIPE.

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



REVISIONS

NO.	DATE	DESCRIPTION

DATE

ARCHITECT'S SEAL

SCALE

Horizontal: Vertical: Contour Interval: N/A

DESIGN BY: LM
 DRAWN BY: LM
 CHKD. BY: LM
 APPVD. BY: LM
 JOB NO.

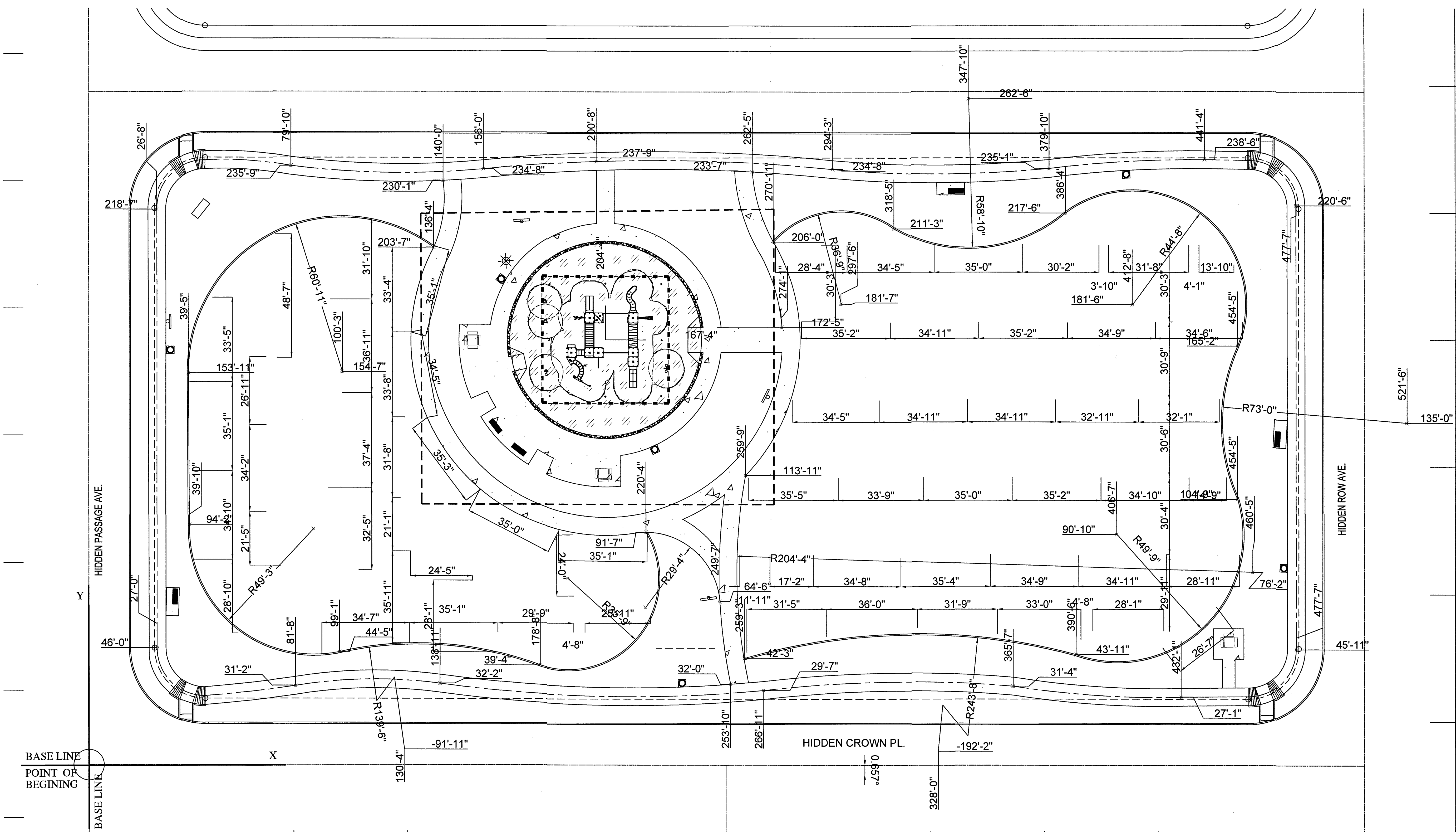
APPROVED FOR CONSTRUCTION
 Parks & Recreation Department

KARLA CHAVEZ
 SIGNATURE
 DATE 7/16/2020

PROJECT TITLE
HIDDEN CROWN PARK
 HIDDEN CROWN PLACE
 LOT 1 BLOCK 10
 HIDDEN VILLAGE UNIT 28 SUBDIVISION
 CITY OF EL PASO, EL PASO, TEXAS
 AREA: .96074, 14 ACRES

SHEET TITLE
L4
 IRRIGATION PIPE SIZING

SHEET 4 OF 12



BASE LINE
POINT OF
BEGINING



PLAN VIEW - PARK LAYOUT

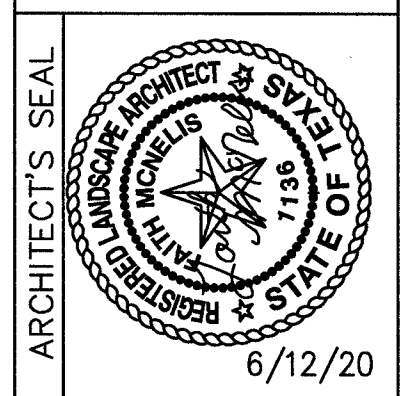
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APPROVED FOR CONSTRUCTION
Parks & Recreation Department Planning

KARLA CHAVEZ
SIGNATURE
7/6/2020
DATE

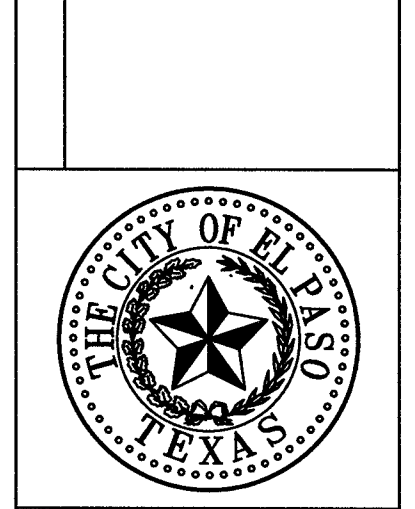
REVISIONS	DATE

LLISA McNELIS
LANDSCAPE ARCHITECT
100 FOXBORO
LAS CRUCES, NEW MEXICO 88007
(505) 623-3032

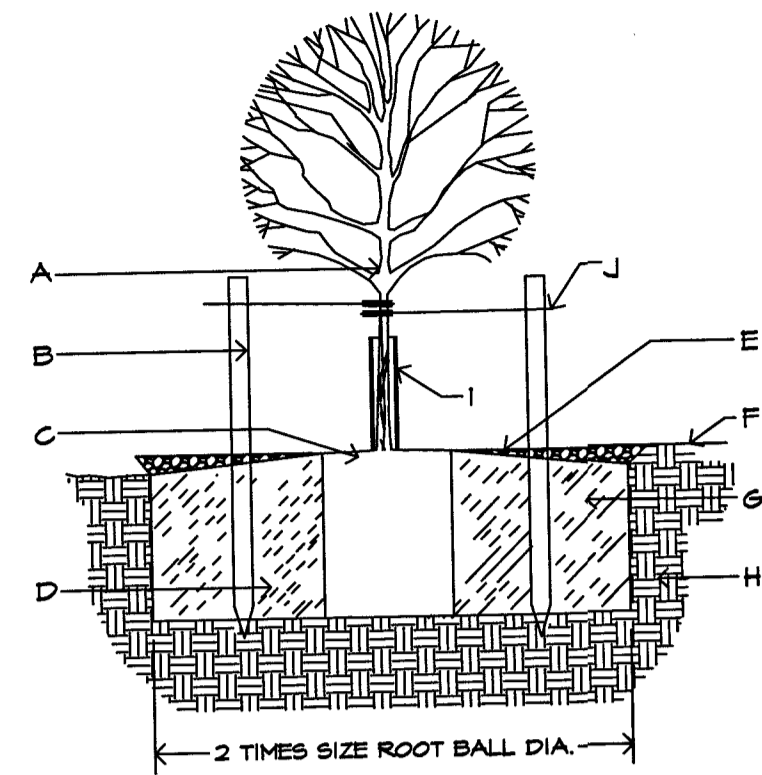


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DATE:	LM
DESIGN BY:	LM
DRAWN BY:	LM
CHKD. BY:	LM
APPROV. BY:	LM
JOB No.	

PROJECT TITLE
HIDDEN CROWN PARK
HIDDEN CROWN PLACE
LOT 1, BLOCK 4
HIDDEN VILLAGE UNIT 2 SUBDIVISION
CITY OF EL PASO, EL PASO, TEXAS
AREA: 96074.14 SQ. FT. - 2.205 ACRES



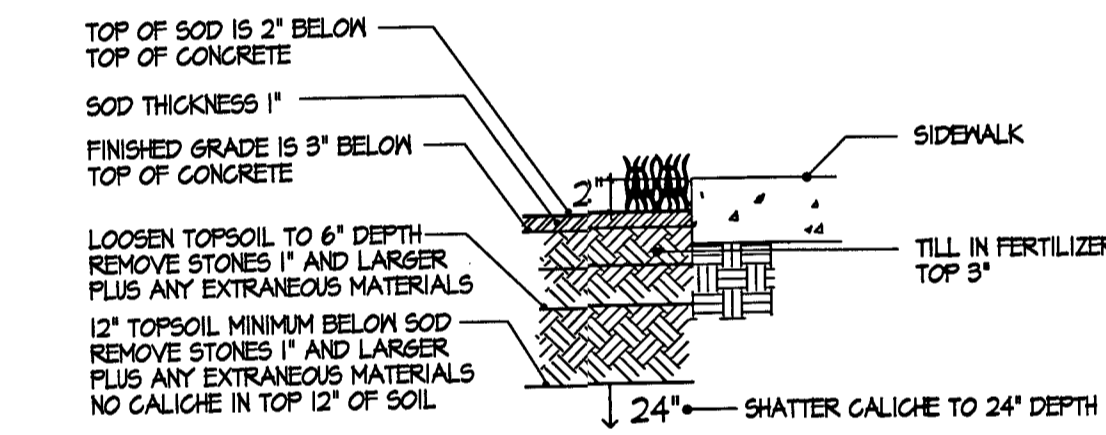
SHEET TITLE
L6
PARK
LAYOUT
SHEET 6 OF 12



- A. TREE
- B. STAKING NEEDED
- C. 4" SPACE BETWEEN MULCH AND TREE
- D. SLOPE ON SIDES OF PLANTING HOLE
- E. DEPTH OF BARK MULCH-SEE PLAN
- F. FINISH SOIL GRADE
- G. BACKFILL WITH EXISTING NATIVE SOIL
- H. UNDISTURBED SOIL
- I. TREEGUARD
- J. TIES TO STAKES TO HAVE RUBBER HOSE TO PROTECT TREE TRUNK FROM DAMAGE BY WIRE. WIRE TIES TO BE LOOSE TO PROTECT TREE TRUNK FROM DAMAGE. WIRE TIES TO BE SET ON SAME TRUNK OR MAIN TRUNK.

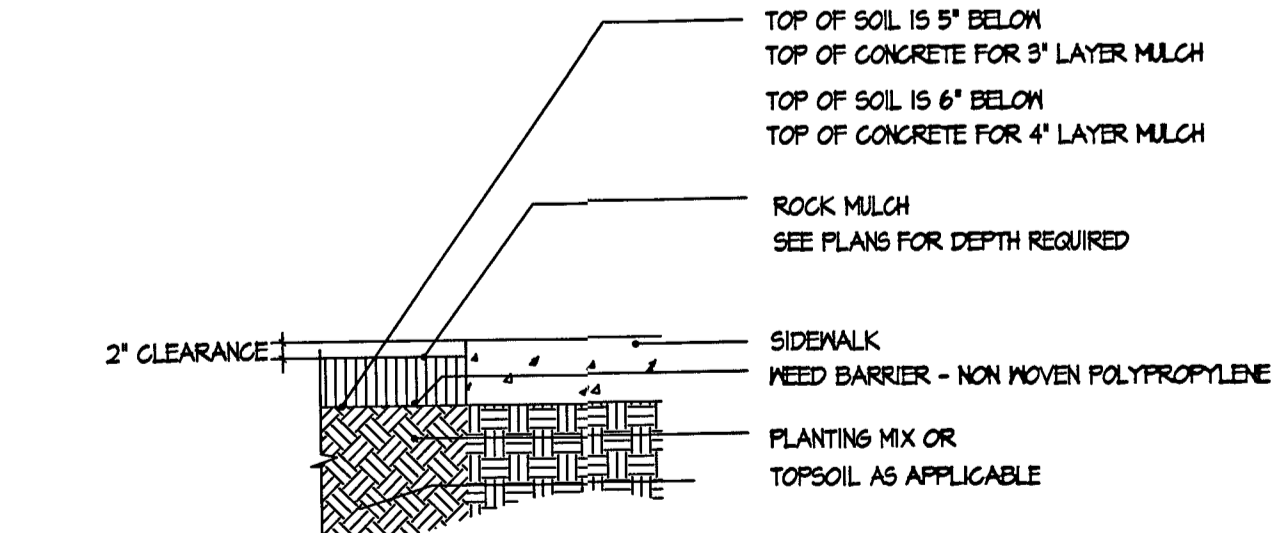
STAKE 1" CALIFER TREES IN PARK PARKWAY.

A TREE PLANTING DETAIL - SECTION
NOT TO SCALE



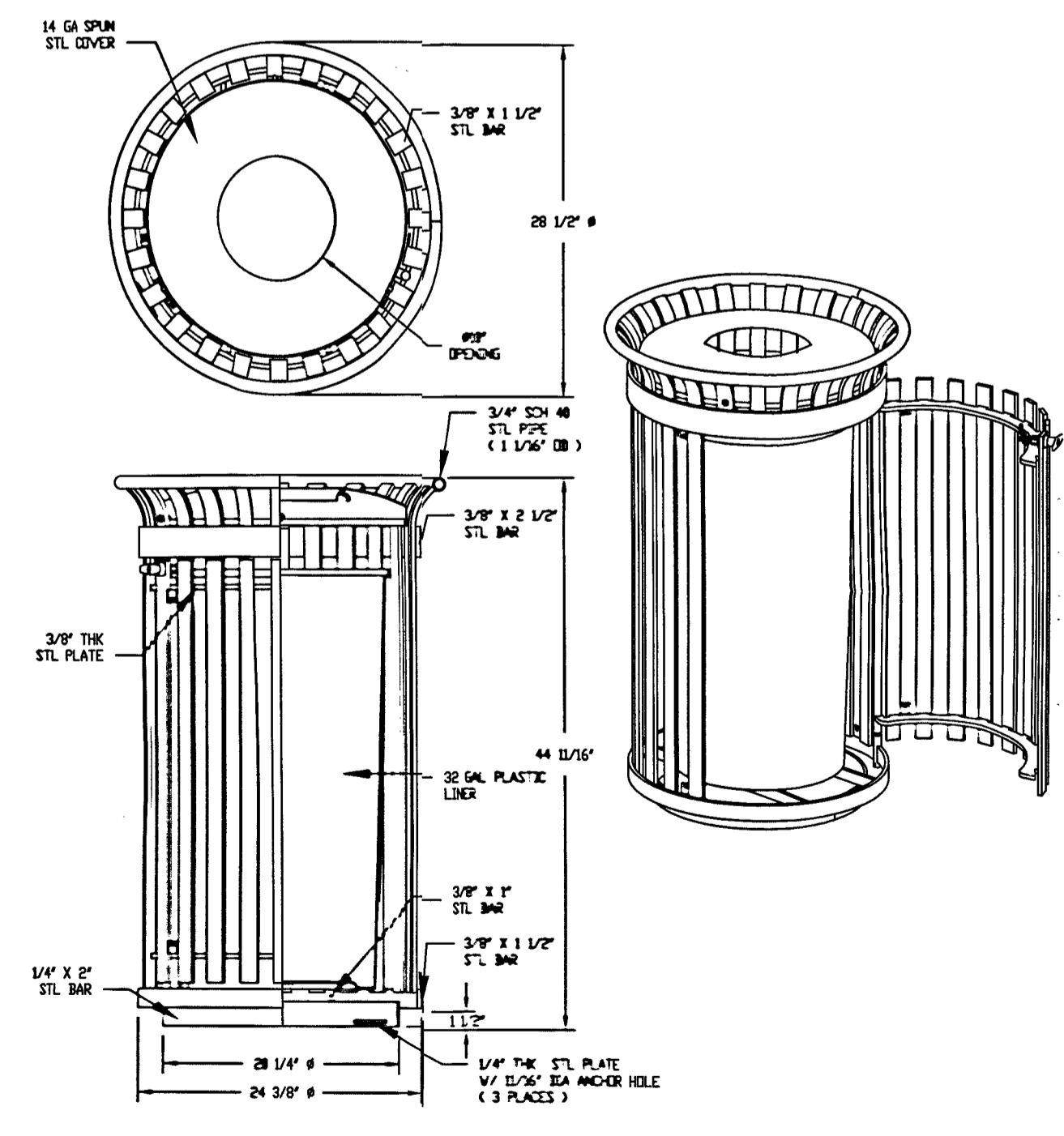
- NOTES:
MOISTEN SOIL PRIOR TO LAYING SOD
ROLL IN TWO DIRECTIONS
SEE SOD SPECIFICATIONS FOR COMPLETE REQUIREMENTS.

D TYPICAL TURF AT CONCRETE DETAIL - SECTION
NOT TO SCALE



- NOTE:
TOP OF ROCK MULCH IS 2" BELOW CONCRETE SURFACES.
NEED BARRIER MUST BE APPROVED BY CITY OF EL PASO PARKS DEPT.
NEED BARRIER MUST BE PINNED 12" ON SEAMS AND OVERLAPS AND 2'-0" OC THROUGHOUT.

G ROCK MULCH DEPTH AT CONCRETE - SECTION
NOT TO SCALE



- NOTES:
1) ALL STL. MEMBERS COATED W/ ZINC RICH EPOXY THEN FINISHED W/ POLYESTER POWDER COATING.
2) 1/2" X 3 3/4" EXPANSION ANCHOR BOLTS PROVIDED.

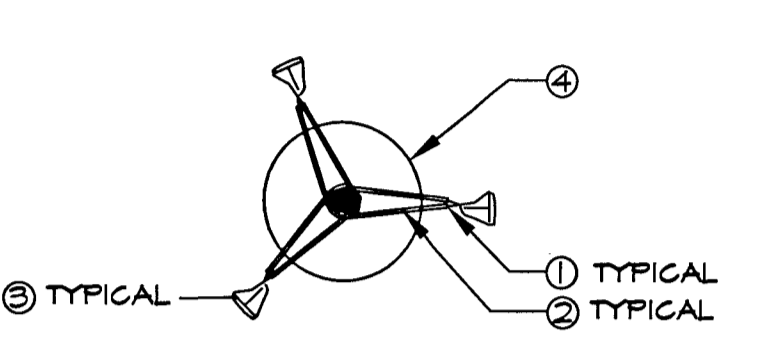
H DuMor 286-32-PTO HINGED TRASH RECEPTACLE
NOT TO SCALE

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 INCLUDE THE COST OF THE STAKING IN THE COST OF THE TREE.

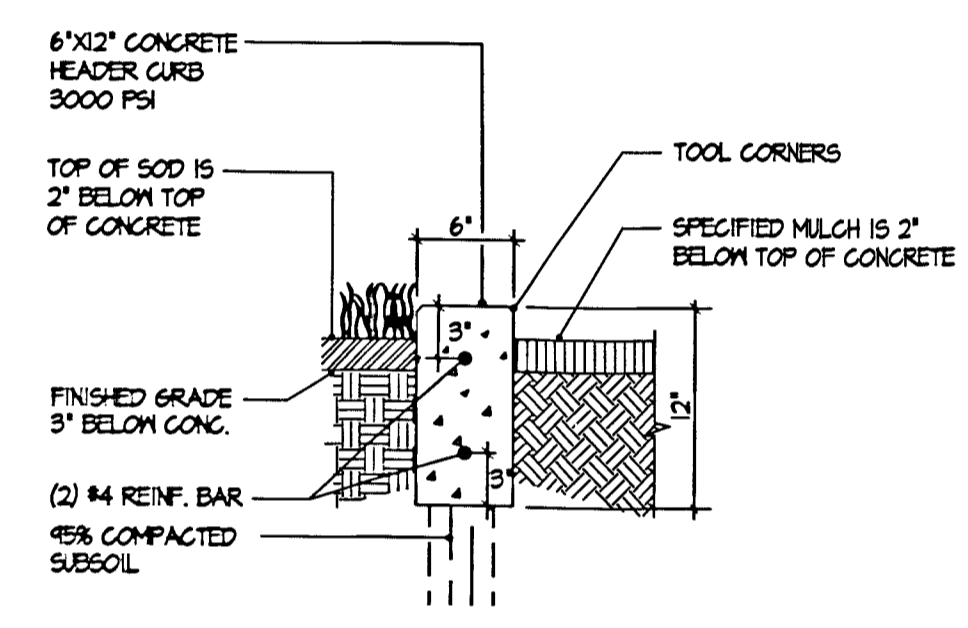
IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE STAKES AT END OF THE GUARANTEE PERIOD AT NO COST TO THE OWNER.
TREES THAT ARE DAMAGED DUE TO IMPROPER OR LACK OF STAKING MUST BE REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER.

WIRES SHALL NOT BE TAUT BUT SHOULD ALLOW MOVEMENT OF 5 - 10 DEGREES FROM VERTICAL.

STAKES SHALL NOT BE DRIVEN INTO ROOTBALL OF TREES.



B TYPICAL TREE GUYING DETAIL - PLAN VIEW
NOT TO SCALE



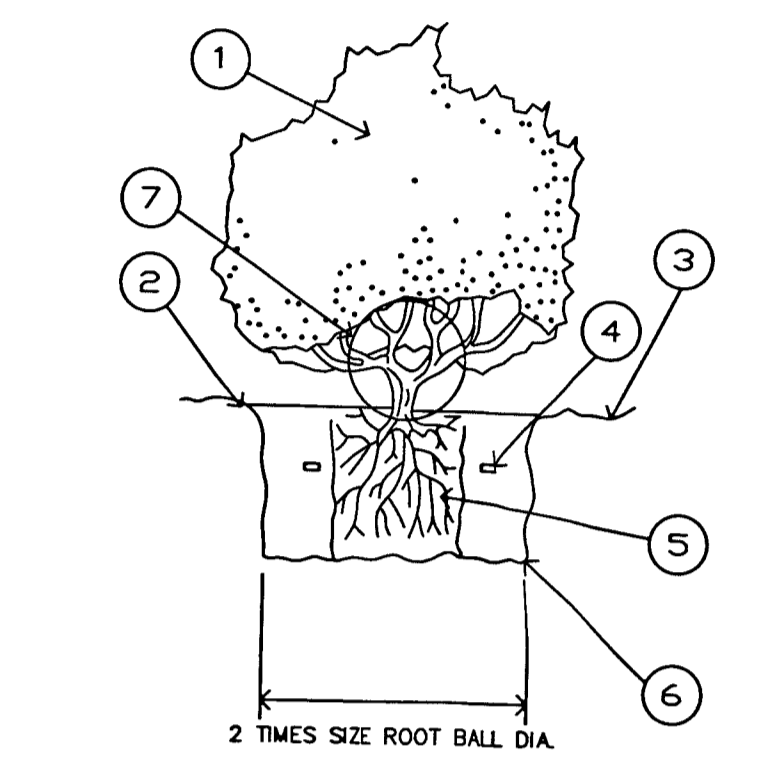
- NOTES:
1. USE CONTROL JOINT EVERY 10'.
2. USE 1/2" ASPHALT EXPANSION JOINTS EVERY 50' AND AT CURB RETURNS.

E CONCRETE HEADER CURB DETAIL - SECTION
NOT TO SCALE

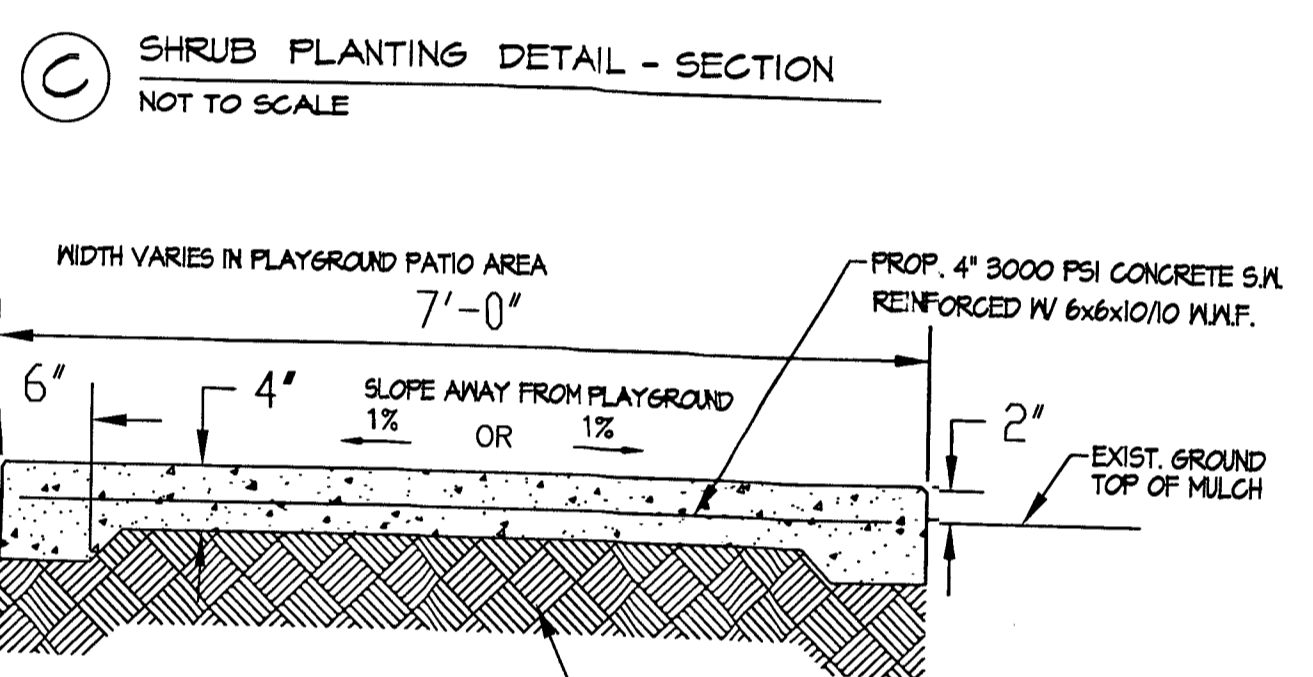
- 1. 2 STRAND TWIST 9 GAUGE WIRE
- 2. 1/2" RUBBER HOSE
- 3. 6" WOOD STAKE SET INTO GROUND 2'
- 4. ROOTBALL

APPROVED FOR CONSTRUCTION
Parks & Recreation Department Planning

KARLA CHAVEZ
SIGNATURE
7/6/2020
DATE

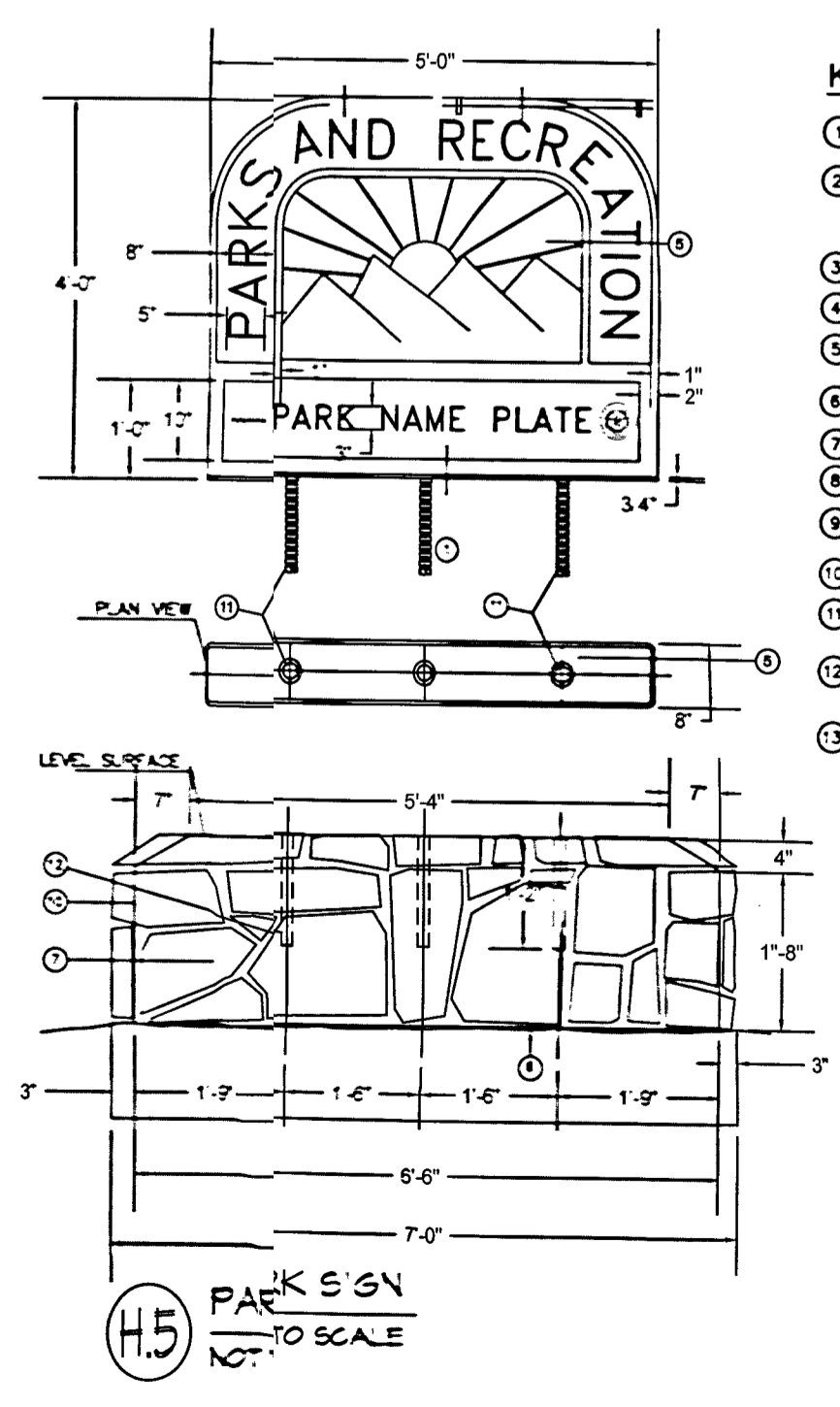


- LEGEND**
- 1. SHRUB OR VINE PER PLAN
 - 2. EARTH WATERING BASIN (COVER WITH SPECIFIED MULCH ON PLAN)
 - 3. FINISH GRADE
 - 4. 7 GAL PLANT TABLETS (1 GAL = 3, 5 GAL = 6, 10-15 GAL = 9)
 - 5. ROOTBALL (SET CROWN FLUSH WITH FINISH GRADE) COVER 2" SPECIFIED MULCH
 - 6. UNDISTURBED NATIVE SOIL
 - 7. DO NOT BURY PLANT BASE IN GRAVEL
- EXCAVATE AND REPLACE WITH SAME SOIL. REMOVE STONES 2" OR LARGER.

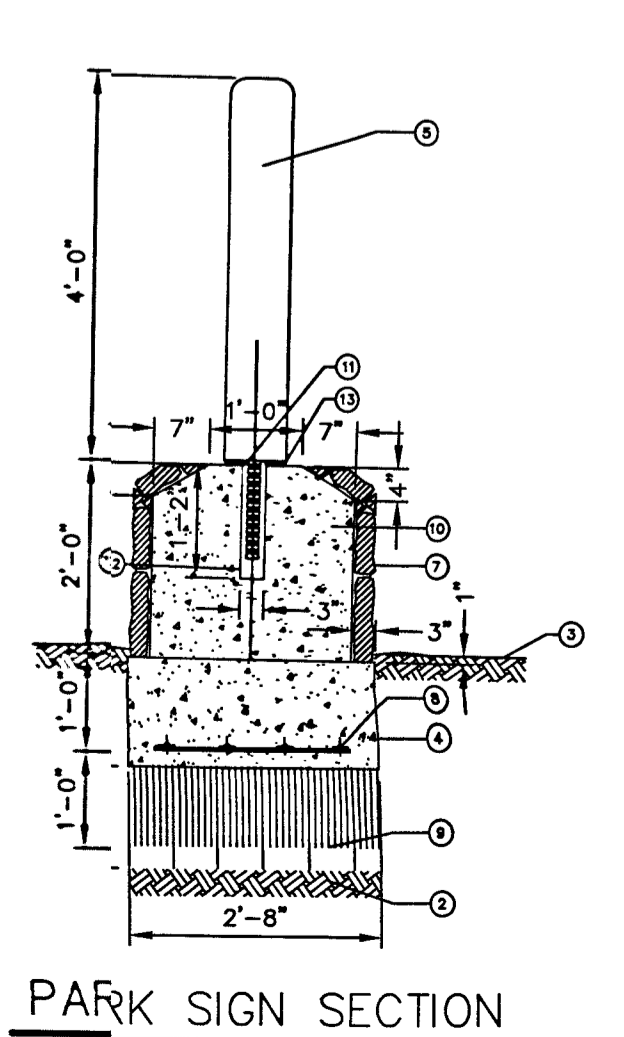
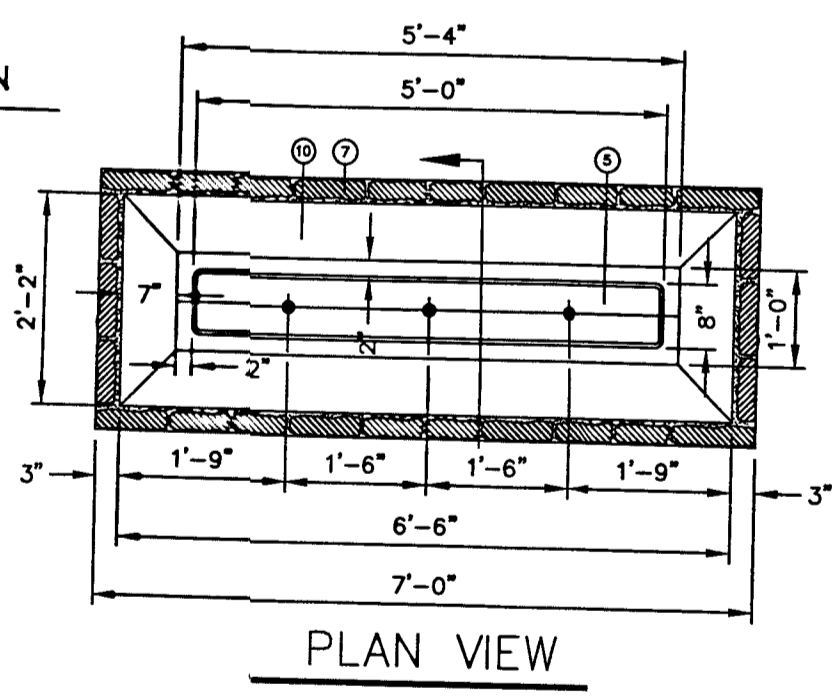


- NOTES:
1. CONCRETE SHALL BE 3000 PSI MINIMUM.
2. CONTROL JOINT REQUIRED AT 5' O.C. FOR SIDEWALKS, CONTROL JOINTS SHALL BE 1/8" THICK AND 1" DEEP.
3. EXPANSION JOINT MATERIAL REQUIRED @ 20' O.C. FOR SIDEWALKS.
4. DO NOT CROSS REINFORCEMENT THRU EXPANSION MATERIAL.
5. PROVIDE EXPANSION JOINT MATERIAL WHERE SIDEWALKS MEET, EXISTING SIDEWALKS AND CURBS.

F TYPICAL CONCRETE SIDEWALK - SECTION
NOT TO SCALE



- KEYED NOTES:**
- 1) PARK NAME BY SIGN MANUF.
 - 2) EXISTING GROUND TO REMAIN UNDISTURBED. DISTURBED GROUND TO BE COMPACTED TO 95% AS PER ASTM D1557.
 - 3) FINISHED GRADE. SEE GRADING PLAN.
 - 4) CONTINUOUS CONCRETE FOOTING.
 - 5) PRE-CAST CONCRETE SIGN BY WASAU TILE. REFER TO SPEC.
 - 6) 3000 PSI CONCRETE BASE.
 - 7) 2" ROCK VENEER MOUNT. FRANKLIN ROCK.
 - 8) 4 # 4S CONT. W/ #4 @ 12" O.C.
 - 9) 12" ENGINEERED FELD COMPACTED TO MODIFIED PROCTOR TO 95%.
 - 10) CONCRETE BASE BY SIGN MANUF.
 - 11) S.S. STUD ANCHOR PROVIDED BY SIGN MANUF.
 - 12) 3" X 14" DEEP LEAVE-OUT FOR ANCHORING SIGN BY SIGN MANUF.
 - 13) PROVIDE GROUT & CEMENT FOR LEVELING SIGN.



H.5 PARK SIGN
NOT TO SCALE

REVISIONS	DATE

LISA MCNEELIS
LANDSCAPE ARCHITECT
1800 FOWERBUSH
LAS CRUCES, NEW MEXICO 88007
(575) 621-9032

ARCHITECT'S SEAL
6/12/20

SCALE
Horizontal: 1/4" = 1'-0"
Vertical: 1/4" = 1'-0"
Contour Interval: N/A
DATE: LM
DESIGN BY: LM
DRAWN BY: LM
CHKD. BY: LM
APPD. BY: LM
JOB NO. LM

PROJECT TITLE
HIDDEN CROWN PARK
HIDDEN CROWN PLACE
LOT 1, BLOCK 4
HIDDEN VILLAGE UNIT 2 SUBDIVISION
CITY OF EL PASO, TEXAS
AREA: 9607.44 SQ. FT. - 2.205 ACRES

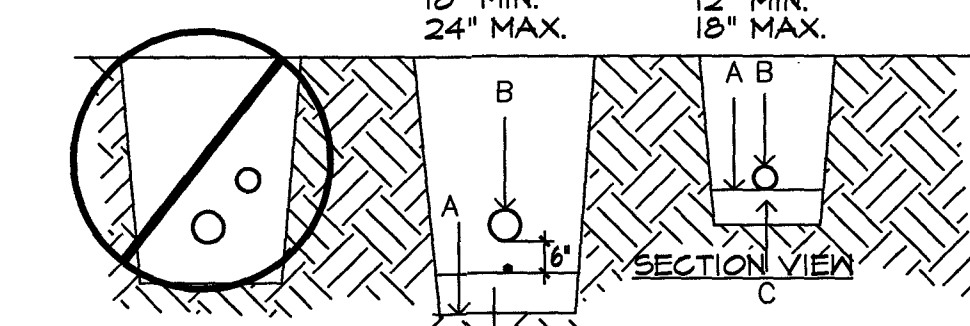
SHEET TITLE
L7

CONSTRUCTION DETAILS
SHEET 7 OF 12

MAINLINE AND LATERAL SHALL NOT BE PLACED IN THE SAME TRENCH

MAINLINE PIPE 18" MIN. 24" MAX.

LATERAL PIPE 12" MIN. 18" MAX.



SET WIRE BUNDLE AT 5' FROM MAINLINE ALONG THE NORTH AND WEST SIDE OF MAIN OR AS AGREED TOO WITH PARKS STAFF.

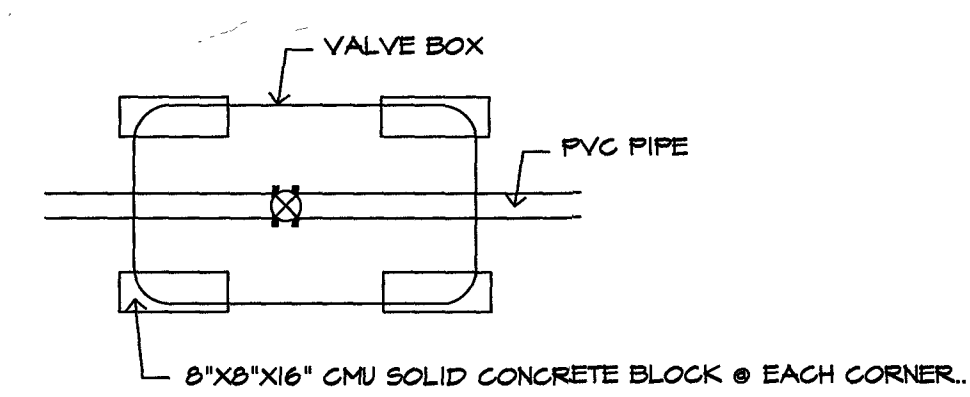
ALL SOLVENT WELD PLASTIC PIPING TO BE SNAKED IN TRENCH AS SHOWN FOR LATERAL LINES.

TIE A 24-INCH LOOP IN ALL WIRING AT CHANGES OF DIRECTION OF 30° OR GREATER AND EVERY 200 FEET.

- NOTES: A. BOTTOM OF EXCAVATED TRENCH WHERE NONE ROCKY SOILS ARE EXPOSED (ENCOUNTERED).
 B. IRRIGATION SYSTEM PIPING.
 C. MINIMUM 4" DEEP BEDDING SANDY SOILS MATERIAL WHERE ROCKY SOILS ARE EXPOSED.
 D. IRRIGATION SYSTEM VALVE WIRING. LOCATE 6" BELOW MAIN PIPE.
 E. BACKFILL SOILS MATERIAL MAY BE NATIVE SOILS IF IT IS FREE OF CALICHE OR STONES LARGER THAN 1" IN SIZE AND ORGANIC MATTER OR WASTE DEBRIS. SOILS COMPACTION IN TURF AREAS TO BE 80% TO 85% DENSITY BY ASTM D-1557 STANDARD AND AT 45% DENSITY UNDER PAVED OR HARDSCAPE SURFACES.

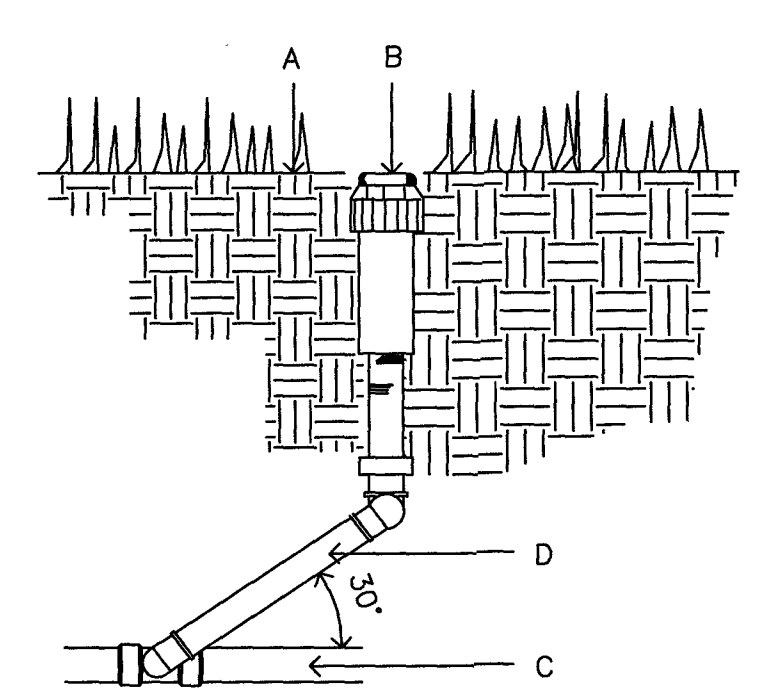
1 TYPICAL PIPE AND WIRE TRENCHING DETAIL NOT TO SCALE

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



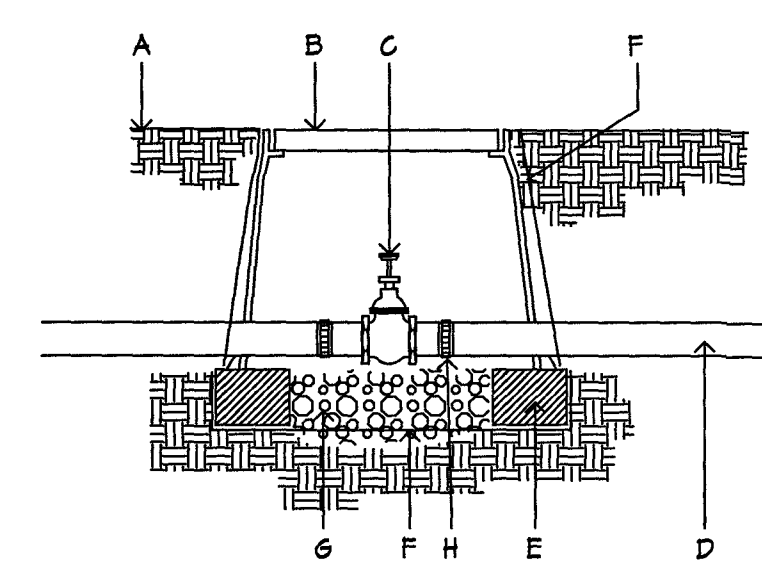
NOTE: BLOCKS TO SIT ON NEED CLOTH ON UNDISTURBED SOIL. DISTURBED SOILS SHALL BE COMPACTED WITH TAMPER PRIOR TO SETTING NEED CLOTH & BLOCKS. VALVE BOX AND EXTENSIONS TO SIT ON BLOCKS. VALVE BOX AND EXTENSIONS TO HAVE A MINIMUM 2" CLEARANCE TO THE TOP OF PVC PIPE.

4 BLOCK PLACEMENT FOR VALVE BOXES NOT TO SCALE



A. FINISH GRADE.
 B. SPRINKLER HEAD (SEE PLAN).
 C. LATERAL LINE (SEE PLAN).
 D. LASCO PRE-ASSEMBLED SWING JOINT.
 THIS DETAIL SHALL BE USED FOR POP-UP SHRUB SPRAY, POP-UP LAWN SPRAY, GEAR DRIVEN AND ROTARY SPRINKLER HEADS. TOP OF SPRINKLER HEAD SHALL BE SET FLUSH WITH FINISH GRADE. SWING JOINT INSTALLATION TO COMPLY WITH MANUFACTURER'S RECOMMENDATION.

7 HUNTER ROTOR HEAD NOT TO SCALE

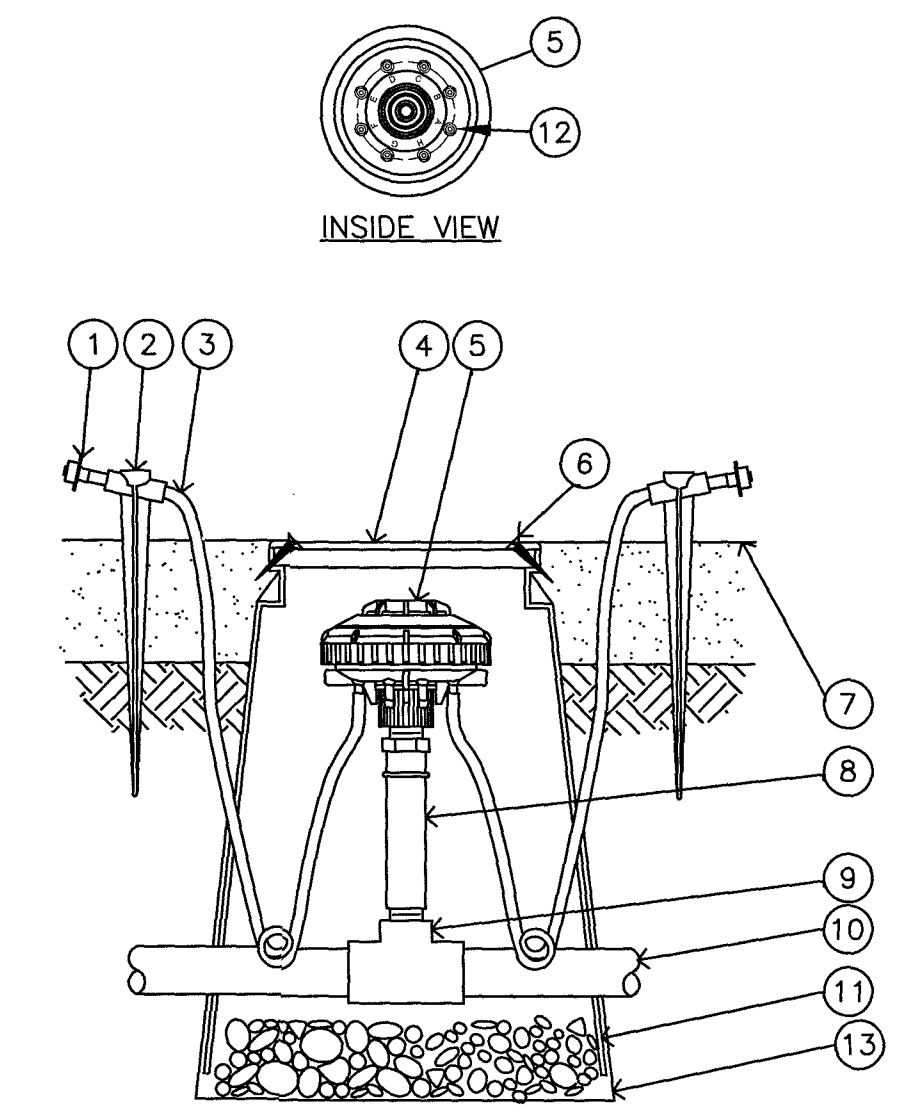


A. FINISH GRADE.
 B. CARSON PRODUCTS INC. 1419-18(ABS) VALVE BOX WITH BOLT DOWN FLAT LID COVER TO MATCH COLOR OF FINISH MATERIAL AND 8" EXTENSIONS AS NECESSARY.
 C. BRASS ISOLATION VALVE- SEE IRRIGATION LEGEND.
 D. IRRIGATION MAINLINE.
 E. 8"X8"X16" SOLID CMU SOLID BLOCK @ EACH CORNER.
 F. PROVIDE DEWITT PRO 5 NEED CLOTH ALONG SIDES AND BASE OF VALVE BOX INSTALLATION. TAPE TO ALL INLET AND OUTLET PIPE AND VALVE BOX WITH HEAVY DUTY PLASTIC 3M TAPE.
 G. 4" DEPTH, 3/8" WASHED PEA GRAVEL.
 H. FLANGE (3" AND ABOVE) AND UNION (BELOW 3" PIPE SIZE)

NOTE: PVC PIPE TO BE CLEAR OF VALVE BOX AND SOLID CMU BLOCK MUST BE LOCATED 10' FROM CONCENTRIC REDUCER ON 4" PIPE.

8 ISOLATION VALVE NOT TO SCALE

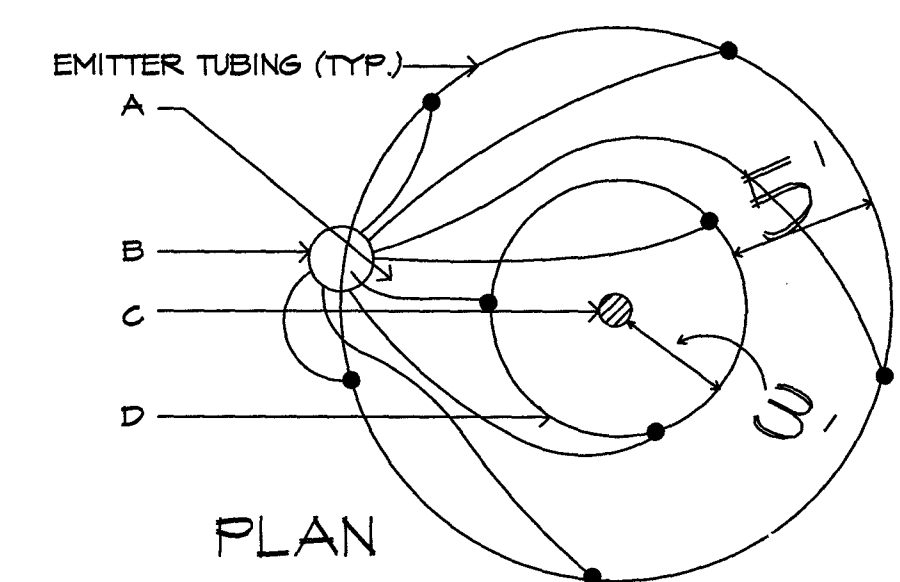
LOCATE INNER RING EMITTER OUTLETS WITHIN 3' OF TREE TRUNK.
 LOCATE OUTER RING EMITTER OUTLETS 8' FROM ROOTBALL.
 DO NOT EXCEED 20' OF MICROTUBING.
 FOR SHRUBS AND GROUNDCOVER PLANTS PLACE EMITTER ON UPHILL SIDE SIDE OF PLANT 12" FROM STEM.



NOTES:
 1. COIL ADDITIONAL 4" OF TUBING IN EMITTER BOX TO FACILITATE MAINTENANCE.
 2. RAIN BIRD XERI-BIRD BARB X BARB EMITTERS ARE AVAILABLE IN THE FOLLOWING MODELS:
 XB-05PC 0.5 6PH XB-10PC 1.0 6PH XB-20PC 2.0 6PH

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

- DIFFUSER BUS CAP: RAIN BIRD DBC-025 (1 OF 2 SHOWN, 3 POSSIBLE).
- UNIVERSAL 1/4" TUBING STAKE: RAIN BIRD TS-025 (1 OF 2 SHOWN, 3 POSSIBLE).
- 1/4" DISTRIBUTION TUBING: RAIN BIRD XG TUBING (LENGTH AS REQUIRED) DO NOT EXCEED 20' (1 OF 2 SHOWN, 3 POSSIBLE).
- SUBTERRANEAN EMITTER BOX: CARSON 910 SERI E3 (GREEN IN TURF AREAS AND TAN IN ROCK LANDSCAPE AREAS).
- MULTI-OUTLET EMISSION DEVICE: RAIN BIRD XERI-BIRD XBD-80.
- INSTALL 2 1/2" LONG SELF TAPING BRASS SCREWS.
- FINISH GRADE.
- PVC SCH 80 IN LINE PRESSURE REGULATOR -050-30
- PVC SCH 40 TEE OR ELL.
- PVC LATERAL PIPE.
- 3" MINIMUM DEPTH OF 3/4" WASHED PEA GRAVEL.
- SINGLE-OUTLET BARB INLET X BARB OUTLET EMITTER: RAIN BIRD XERI-BIRD EMITTER.
- WEED BARRIER TAPE TO EMITTER BOX AND PIPE PENETRATION. TAPE TO BE 3M BRAND HEAVY DUTY PLASTIC TAPE.



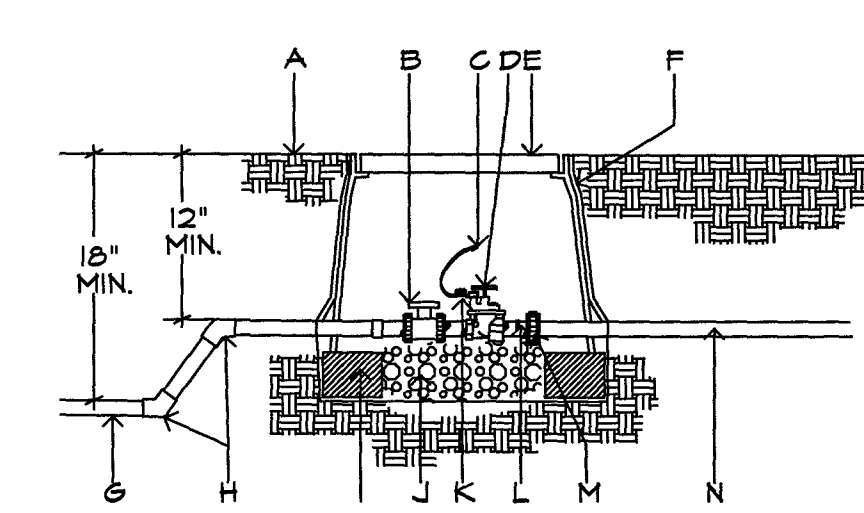
INSTALL (8) EMITTERS PER TREE, SPACE EVENLY AROUND ROOTBALL, IN OFFSET TRIANGULAR PATTERN FOR TREES, SEE IRRIGATION LEGEND FOR OUTLET EMITTER SIZE.

- A. EMITTER TUBING.
 B. MULTI OUTLET EMITTER DEVICE, INSTALL 3' FROM TREE TRUNK ON WEST SIDE.
 C. TREE TRUNK.
 D. TREE ROOTBALL.

3 EMITTER PLACEMENT FOR TREES NOT TO SCALE

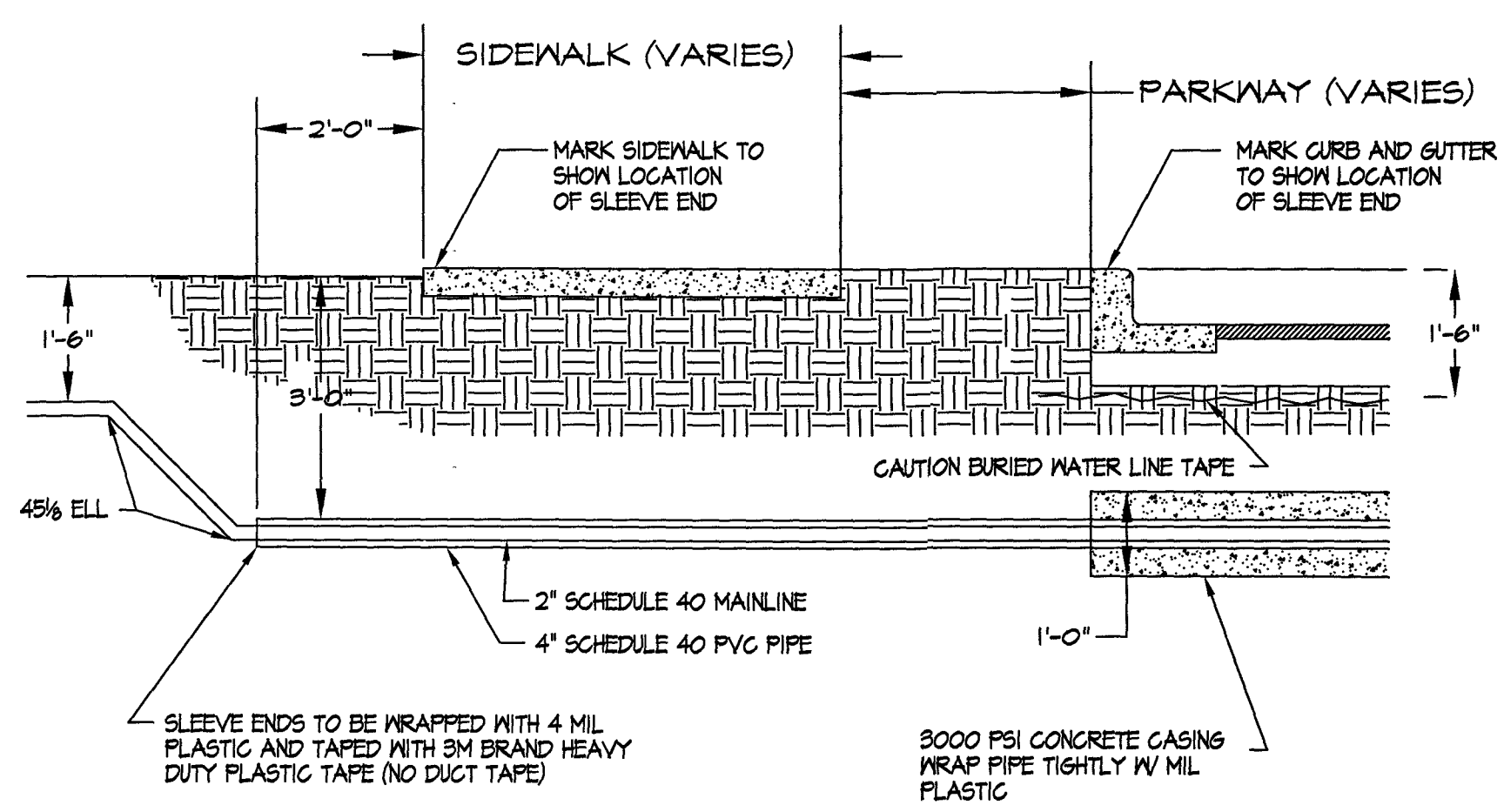
LOCATE INNER RING EMITTER OUTLETS WITHIN 3' OF TREE TRUNK.
 LOCATE OUTER RING EMITTER OUTLETS 8' FROM ROOTBALL.
 DO NOT EXCEED 20' OF MICROTUBING.
 FOR SHRUBS AND GROUNDCOVER PLANTS PLACE EMITTER ON UPHILL SIDE SIDE OF PLANT 12" FROM STEM.

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



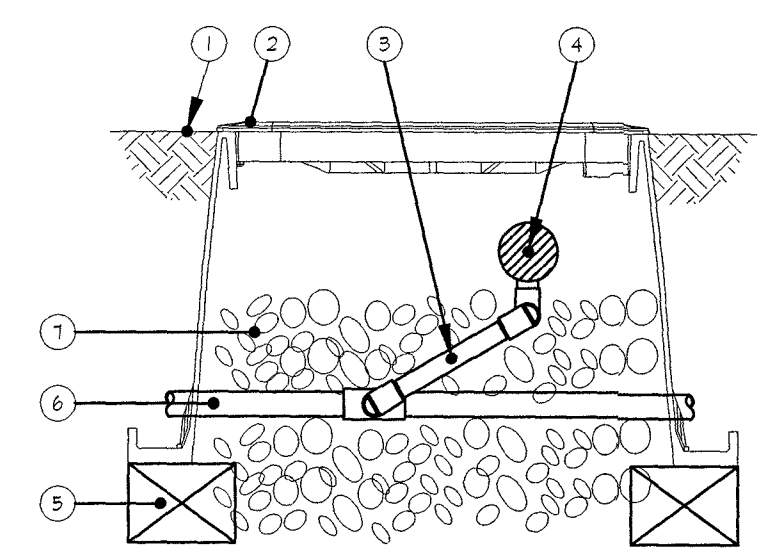
- A. FINISH GRADE.
 B. BALL VALVE.
 C. DRY SPLICE CONNECTOR OR EQUAL.
 D. ELECTRIC VALVE -SEE IRRIGATION LEGEND.
 E. CARSON PRODUCTS INC. 1419-18(ABS) VALVE BOX WITH BOLT DOWN FLAT LID COVER TO MATCH COLOR OF FINISHED MATERIAL AND 8" EXTENSIONS AS NECESSARY.
 F. PROVIDE DEWITT PRO 5 NEED CLOTH ALONG SIDES AND BASE OF VALVE BOX INSTALLATION. TAPE TO ALL INLET AND OUTLET PIPE AND VALVE BOX WITH HEAVY DUTY PLASTIC 3M TAPE.
 G. PVC MAINLINE-SEE IRRIGATION LEGEND.
 H. SCH 80 - 45 DEGREE FITTINGS.
 I. 8"X8"X16" SOLID CMU BLOCK @ EACH CORNER.
 J. 4" DEPTH, 3/8" DIAMETER WASHED PEA GRAVEL.
 K. 24" WIRE EXPANSION COIL, EXTEND WIRE 12" ABOVE VALVE BOX FOR SERVICE.
 L. SCHEDULE 80 PVC CLOSE NIPPLE.
 M. FLANGE (3" AND ABOVE) AND UNION (BELOW 3" PIPE SIZE)
 N. LATERAL LINE.

6 IRRIGATION CONTROL VALVE NOT TO SCALE



NOTE: SLEEVE TO BE KEPT CLEAN AND FREE OF SOIL AND DEBRIS

9 SLEEVING UNDER STREETS NOT TO SCALE



- FINISH GRADE/TOP OF MULCH
- VALVE BOX WITH BOLT DOWN COVER
- SWING JOINT
- AIR RELEASE VALVE
- CMU AT CORNERS OF VALVE BOX
- PVC MAIN OR LATERAL
- 3/8 PEA GRAVEL

INSTALL BRICK AT EACH CORNER OF VALVE BOX 3/8 PEA GRAVEL INSTALLED FLUSH WITH BOTTOM OF PIPE AND BASE OF VALVE.

AIR RELEASE VALVES SHALL BE INSTALLED AT HIGH POINTS OF THE MAIN LINE AND LATERALS. LOCATION TO BE DETERMINED IN THE FIELD

SEE ISOLATION VALVE DETAIL #8 ON L16 FOR STANDARD VALVE BOX INSTALLATION INFORMATION

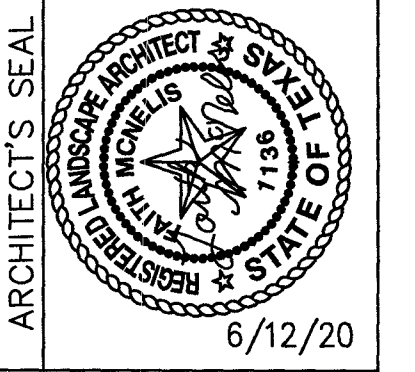
10 AIR RELEASE VALVE NOT TO SCALE

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



REVISIONS	DATE

LISA MCNEELIS
 LANDSCAPE ARCHITECT
 1900 FOXBORO
 LAS CRUCES, NEW MEXICO 88007
 (505) 621-5052



SCALE	Horizontal: N/A	Vertical: N/A
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JOB No.		

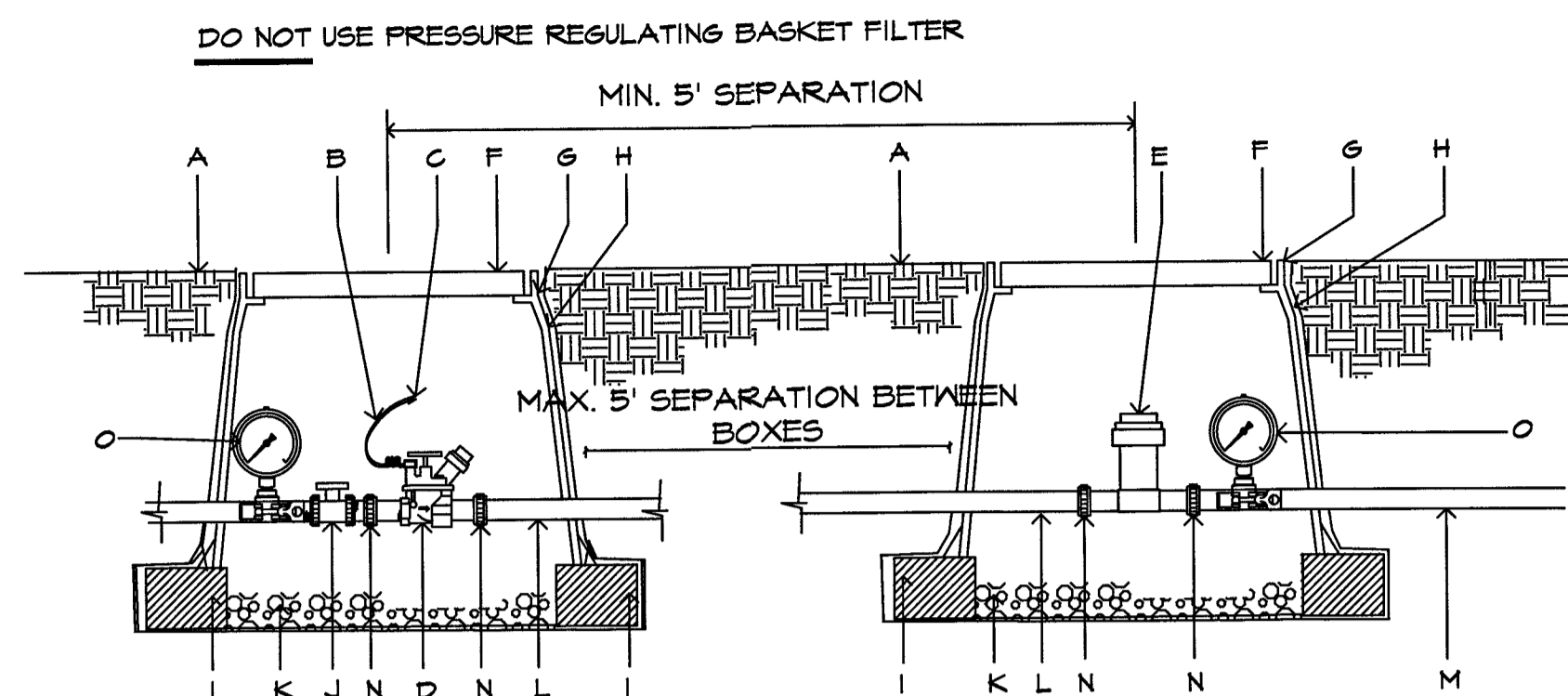
PROJECT TITLE
HIDDEN CROWN PARK
 HIDDEN CROWN PLACE
 LOT 1, BLOCK 4
 HIDDEN VILLAGE UNIT 2 SUBDIVISION
 CITY OF EL PASO, EL PASO, TEXAS
 AREA: 96074.14 SQ.FT. - 2.205 ACRES



SHEET TITLE
L9
 IRRIGATION
 DETAILS
 SHEET 9 OF 12

APPROVED FOR CONSTRUCTION
 Parks & Recreation Department Planning

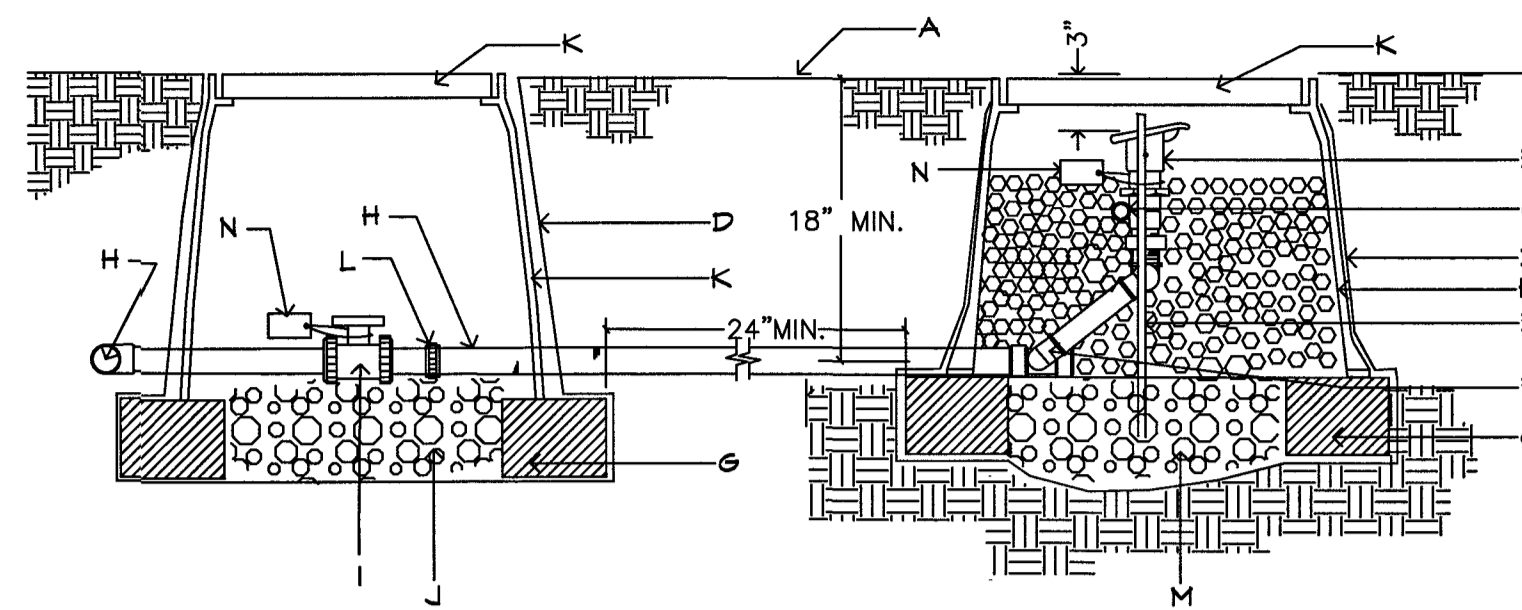
KARLA CHAVEZ
 SIGNATURE
 7/6/2020
 DATE



NOTE: PROVIDE 1 PRESSURE GAUGE ON MAIN LINE UPSTREAM OF BALL VALVE AND ANOTHER DOWNSTREAM OF BASKET FILTER. PROVIDE 5' SEPARATION BETWEEN BOXES. IF SPACE IS NOT AVAILABLE, PROVIDE A MIN. 5' SEPARATION AT CENTER LINES OF BOXES. SET GAGES HORIZONTAL TO BE READABLE FROM ABOVE.

- A. FINISH GRADE.
- B. 24" WIRE LOOP.
- C. DRY SPLICE CONNECTOR OR EQUAL.
- D. AUTOMATIC VALVE. SEE IRRIGATION LEGEND.
- E. RAINBIRD PRESSURE BASKET FILTER. STRAINER SHALL BE INSTALLED TO PROVIDE ACCESS FOR MAINTENANCE AND REPLACEMENT.
- F. LOCKING VALVE BOX COVER FLAT LID WITH BOLT.
- G. CARSON PRODUCTS INC. 1419-18 BODY (ABS) VALVE BOX W/BOLT DOWN COVER (COVER COLOR TO MATCH FINISH MATERIAL AND EXTENSION AS NECESSARY).
- H. PROVIDE DEWITT PRO 5 WEED CLOTH ALONG SIDES AND BASE OF VALVE BOX AND BLOCKS. TAPE TO ALL INLET & OUTLET PIPE WITH 3M HEAVY DUTY PLASTIC TAPE.
- I. 8"X8"X16" CMU SOLID CONCRETE BLOCK @ EACH CORNER.
- J. BALL VALVE, INCLUDED IN CONTROL ZONE KIT, SEE IRRIGATION LEGEND.
- K. 4" LAYER OF 3/8" WASHED PEA GRAVEL.
- L. PVC PIPE SIZED PER PLAN WITH WELD ON THREADED FITTINGS ON EACH END.
- M. LATERAL LINE.
- N. PROVIDE PVC UNION FOR PIPE SIZES LESS THAN THREE INCHES IN DIAMETER OR PROVIDE FLANGES FOR PIPE SIZES THREE INCHES IN DIAMETER OR LARGER.
- O. HORIZONTAL HYGIENIC PRESSURE GAUGE.

11 DRIP VALVE W/ BASKET FILTER
NOT TO SCALE



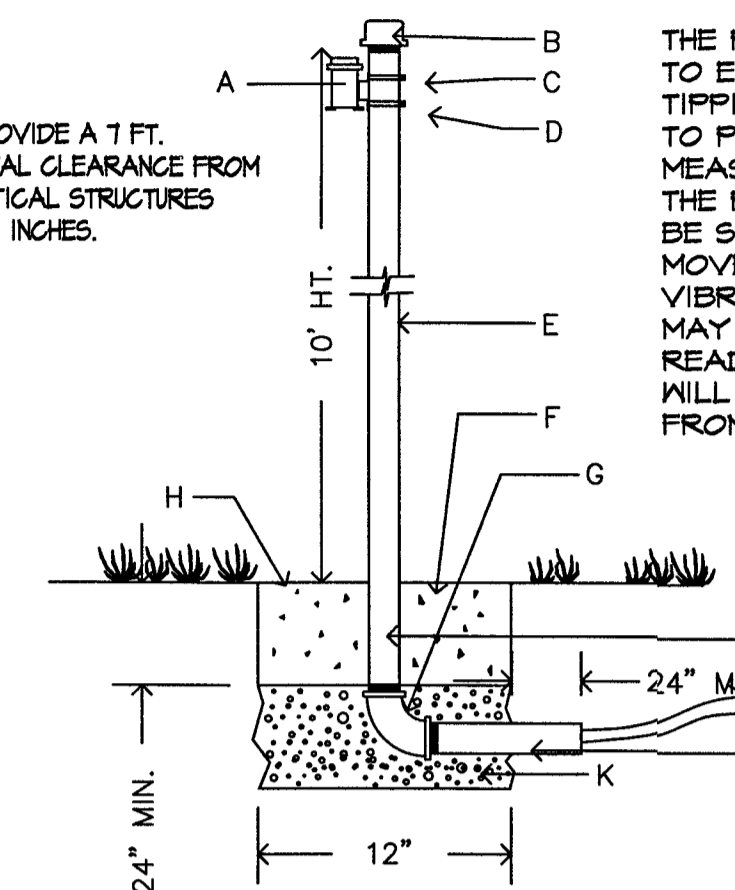
- A. FINISH GRADE.
- B. 1" BUCKNER QUICK COUPLER VALVE, DOUBLE SLOT, PURPLE TOP-MODEL Q85NPIO WITH LASCO SNAP-LOCK W/MALE BRASS STABILIZER ELBOW.
- C. MIN. 12" SECTION 1" DIA. PVC. SECTION SHOULD EXTEND BEYOND BOTH REBAR SECTION, STABILIZE IN GRAVEL.
- D. PROVIDE DEWITT PRO 5 WEED CLOTH ALONG SIDES AND BASE OF VALVE BOX. TAPE TO ALL INLET AND OUTLET PIPE AND VALVE BOX WITH HEAVY DUTY 3M PLASTIC TAPE.
- E. 1/2" OR 3/8" REBAR, MIN. 30" LENGTH, ONE ON EITHER SIDE OF QUICK COUPLER FOR STABILITY.
- F. LASCO SWING JOINT (PRE-ASSEMBLED).
- G. 8" X 8" X 16" SOLID CMU BLOCK.
- H. IRRIGATION MAINLINE.
- I. ISOLATION BALL VALVE. SEE IRRIGATION LEGEND.
- J. 6" DEPTH OF 3/8" WASHED PEA GRAVEL.
- K. CARSON PRODUCTS INC. 1419-18 BODY (ABS) VALVE BOX AND EXTENSION(S) W/BOLT DOWN COVER (COVER COLOR TO BE PURPLE).
- L. PROVIDE PVC UNION FOR PIPE SIZES LESS THAN THREE INCHES IN DIAMETER OR PROVIDE FLANGES FOR PIPE SIZES THREE INCHES IN DIAMETER OR LARGER.
- M. 3/8" WASHED PEA GRAVEL FILLED TO QUICK COUPLER FOR STABILITY.
- N. WEATHER PROOF TAG THAT READS, "NON-PORTABLE WATER, NOT SAFE FOR DRINKING." FLANGES FOR PIPE SIZES THREE INCHES IN DIAMETER OR LARGER.

NOTE: INSTALL AN 8" X 8" X 16" SOLID CMU BLOCK AT EACH CORNER OF THE VALVE BOX. INSTALL 3/8" PEA GRAVEL BELOW THE 1419-18 VALVE BOX WITH BOLT DOWN COVER. EXTEND PEA GRAVEL UP TO COLLAR OF QUICK COUPLER VALVE. INSTALL A TEE, FLANGE & BALL VALVE OFF OF THE MAIN LINE IMMEDIATELY UPSTREAM OF THE QUICK COUPLER VALVE.

12 QUICK COUPLER
NOT TO SCALE

13 BLANK
NOT TO SCALE

NOTE: PROVIDE A 1 FT. HORIZONTAL CLEARANCE FROM ANY VERTICAL STRUCTURES ABOVE 12 INCHES.

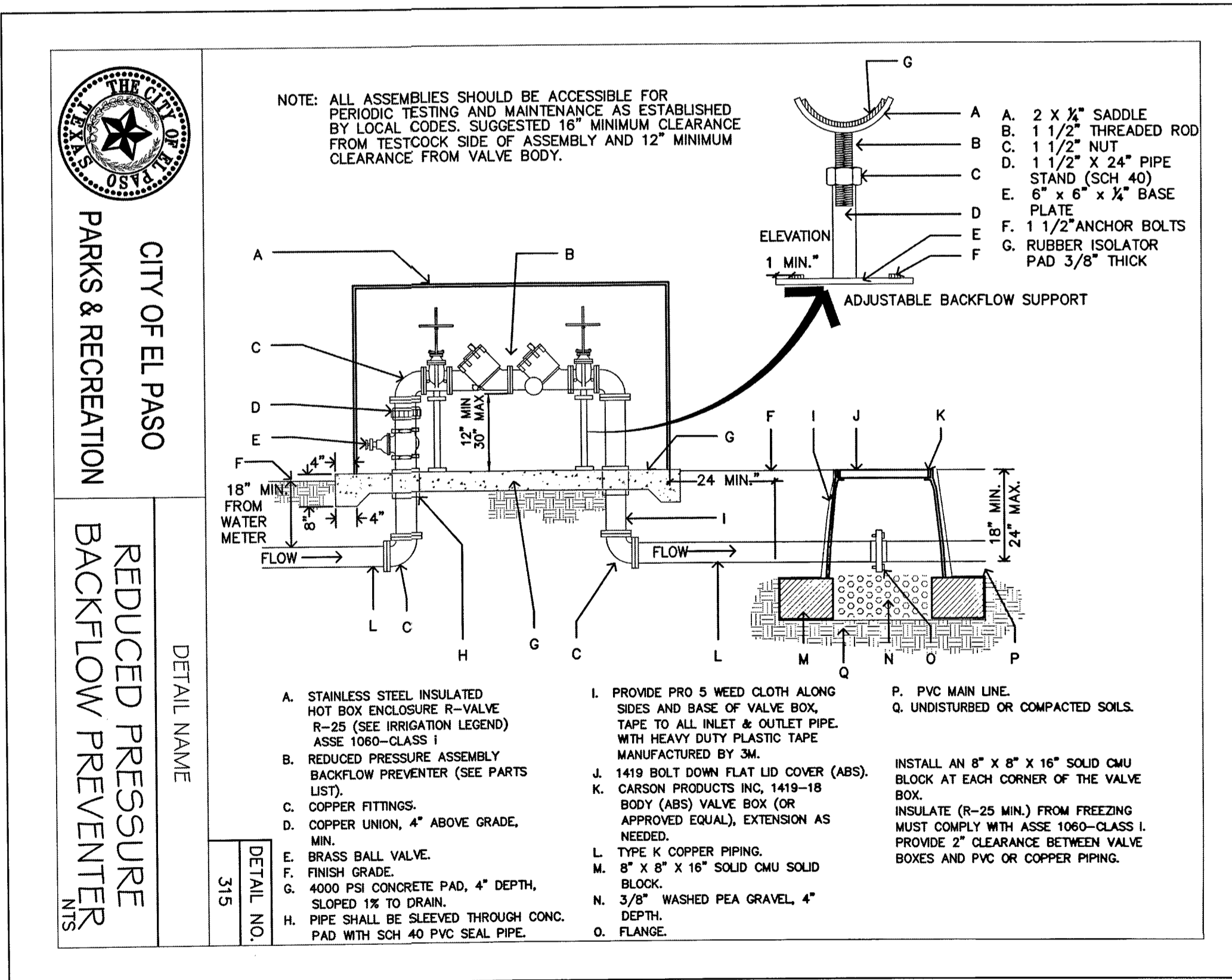


THE RAIN CAN MUST BE MOUNTED LEVEL TO ENSURE PROPER OPERATION OF THE TIPPING MECHANISM AND TO PROVIDE ACCURATE RAINFALL MEASUREMENTS. THE MOUNT ON WHICH THE RAIN CAN IS ATTACHED MUST BE STURDY ENOUGH TO PREVENT MOVEMENT IN WINDY CONDITIONS. VIBRATIONS FROM SMALL MOVEMENTS MAY REDUCE THE ACCURACY OF THE READINGS WHILE EXCESSIVE MOVEMENT WILL GENERATE FALSE READINGS FROM THE TIPPING ASSEMBLY.

SEE MANUFACTURER'S FIELD INSTALLATION INSTRUCTIONS. PARKS MAY REQUIRE ADDITIONAL FASTENERS OR MODIFICATION OF THIS DETAIL.

- A. RAIN BIRD RAIN CAN
- B. 2 1/4" PIPE CAP WITH HOLE FOR WIRES AND SEAL WITH EXTERIOR GRADE SILICONE SEALANT.
- C. CLAMPS
- D. (2) MACHINE SCREWS WITH WASHER, LOCK WASHER AND NUT.
- E. 2 1/2" SCH 40 GALVANIZED PIPE-10 FT. HT. A.S.
- F. 12"X12" CONCRETE BASE, MIN. 24" DEEP.
- G. PIPE ELBOW
- H. FINISH GRADE
- I. PIPE TO BE SEALED AFTER CABLE IS RUN, USE 4 MIL. PLASTIC AND TAPED NIPPLE AND THE CABLE WITH HIGH GRADE 3M WEATHER PROOF PLASTIC TAPE.
- J. NIPPLE. GALVANIZED PIPE IN CONCRETE FOOTING TO BE WRAPPED WITH WEATHER PROOF TAPE TO PROTECT FROM CORROSION.
- K. 6" THICK, 3/8" DIAMETER WASHED PEA GRAVEL.

14 RAIN CAN
NOT TO SCALE



NOTE: ALL ASSEMBLIES SHOULD BE ACCESSIBLE FOR PERIODIC TESTING AND MAINTENANCE AS ESTABLISHED BY LOCAL CODES SUGGESTED 18" MINIMUM CLEARANCE FROM TESTCOCK SIDE OF ASSEMBLY AND 12" MINIMUM CLEARANCE FROM VALVE BODY.

- A. STAINLESS STEEL INSULATED HOT BOX ENCLOSURE R-VALVE R-25 (SEE IRRIGATION LEGEND) ASSE 1060-CLASS I
- B. REDUCED PRESSURE ASSEMBLY BACKFLOW PREVENTER (SEE PARTS LIST).
- C. COPPER FITTINGS.
- D. COPPER UNION, 4" ABOVE GRADE.
- E. BRASS BALL VALVE.
- F. FINISH GRADE.
- G. 4000 PSI CONCRETE PAD, 4" DEPTH, SLOPED 1% TO DRAIN.
- H. PIPE SHALL BE SLEEVED THROUGH CONC. PAD WITH SCH 40 PVC SEAL PIPE.
- I. PROVIDE PRO 5 WEED CLOTH ALONG SIDES AND BASE OF VALVE BOX. TAPE TO ALL INLET & OUTLET PIPE WITH HEAVY DUTY PLASTIC TAPE MANUFACTURED BY 3M.
- J. 1419 BOLT DOWN FLAT LID COVER (ABS).
- K. CARSON PRODUCTS INC. 1419-18 BODY (ABS) VALVE BOX (OR APPROVED EQUAL), EXTENSION AS NEEDED.
- L. TYPE K COPPER PIPING.
- M. 8" X 8" X 16" SOLID CMU SOLID BLOCK.
- N. 3/8" WASHED PEA GRAVEL, 4" DEPTH.
- O. FLANGE.
- P. PVC MAIN LINE.
- Q. UNDISTURBED OR COMPACTED SOILS.

USE THESE STANDARDS AS THEY APPLY TO THE BACKFLOW IN PUMP HOUSE DETAILS SEE SHEET L11

15 BACKFLOW
NOT TO SCALE

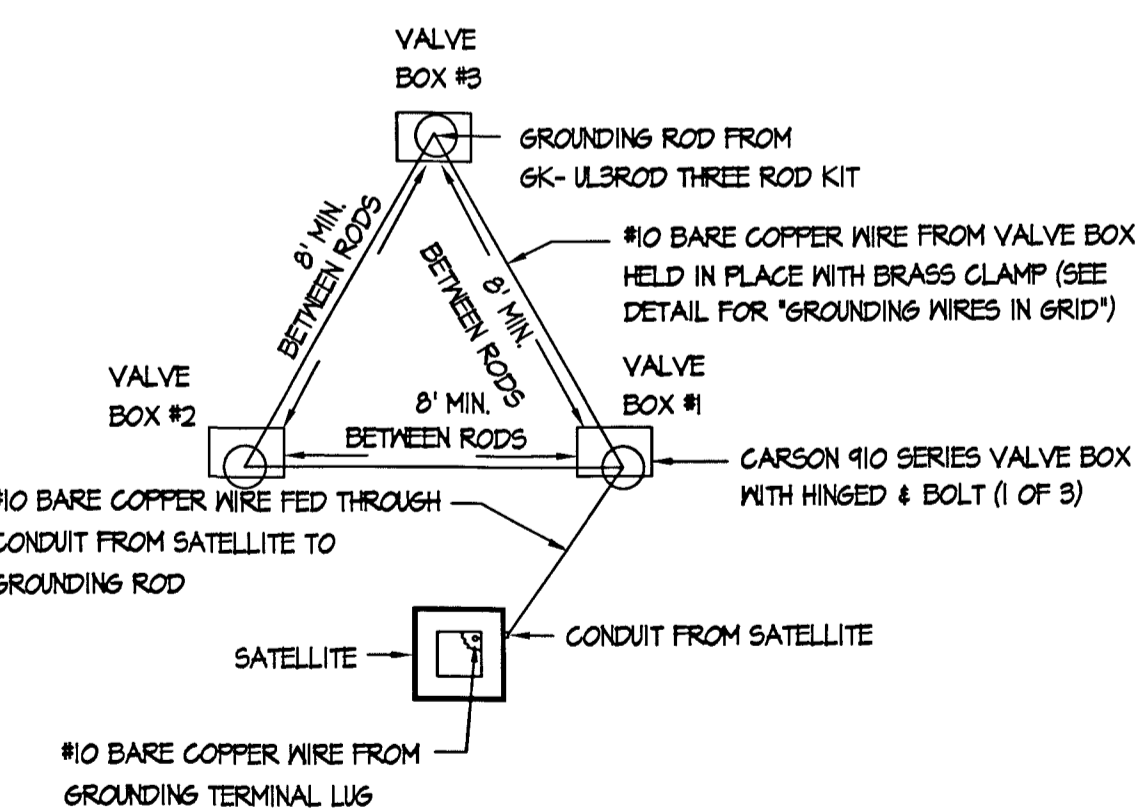
APPROVED FOR CONSTRUCTION
Parks & Recreation Department Planning

KARLA CHAVEZ

SIGNATURE

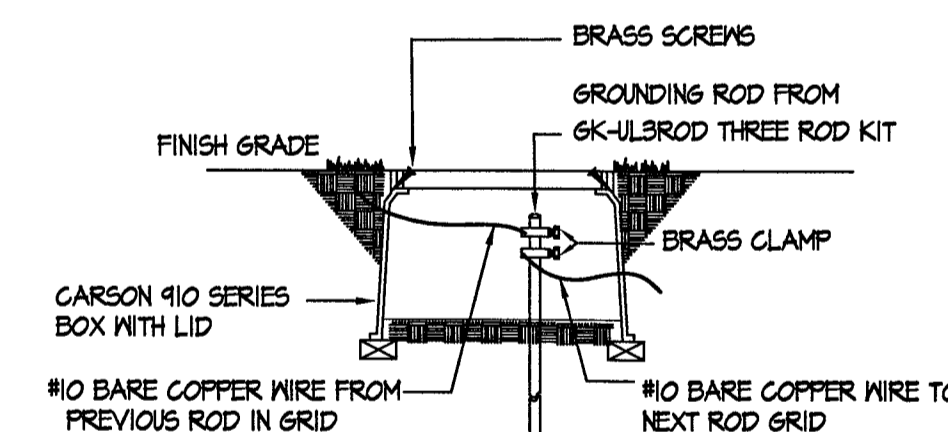
7/6/2020

DATE



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

16 TRIANGULAR GROUNDING GRID DETAIL
NOT TO SCALE



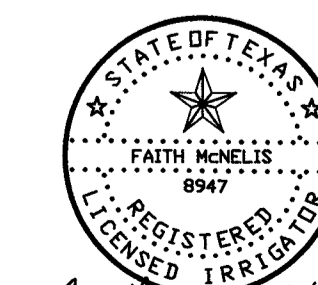
SEE GROUNDING ROD NOTES FOR INSTALLATION INSTRUCTIONS

GROUNDING WIRES IN GRID DETAIL
INITIAL TERMINAL

GROUNDING ROD NOTES:

1. ALWAYS USE A 5/8" X 8' COPPER GLAD ROD.
2. RUN A #10 OF LARGER BARE COPPER WIRE FROM THE DEVICE TO THE ROD.
3. KEEP THE GROUND WIRES AS SHORT AND STRAIGHT AS POSSIBLE FROM THE DEVICE TO THE FIRST ROD.
4. CLAMP ALL WIRES TO THE GROUNDING ROD. DO NOT SOLDER OR TAPE THEM TO THE ROD.
5. TO INSTALL GROUNDING ROD, USE GK-TOOLS ROD DRIVING SLEEVE.
6. SPACE THREE RODS IN A TRIANGULAR GRID AT LEAST 8' APART FROM THE OTHERS IN THE GRID. CONNECT ALL THREE RODS WITH A SOLID #10 COPPER WIRE.
7. WHEN TESTED WITH THE PROPER EQUIPMENT, GRIDS SHOULD HAVE AN EARTH RESISTANCE NO GREATER THAN 5 OHMS.
8. WHENEVER MORE THAN ONE WIRE IS ATTACHED TO A GROUNDING ROD ALWAYS USE A SEPARATE CLAMP FOR EACH WIRE. TRYING TO INSTALL MORE THAN ONE WIRE PER CLAMP COULD CAUSE A POOR CONNECTION RESULTING IN HIGH RESISTANCE LEVELS.
9. GROUNDING RODS SERVE AS ELECTRODES FOR THE SURGE DEVICES TO DISSIPATE THE SURGE INTO THE EARTH. REMEMBER THESE TIPS WHEN INSTALLING THEM.

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



6/12/20

REVISIONS

DATE

LISA MCNEELIS
LANDSCAPE ARCHITECT
1900 FOXBORO
LAG CRUCES, NEW MEXICO 88007
(505) 621-9092

ARCHITECT'S SEAL

6/12/20

SCALE

Horizontal: N/A
Vertical: Contour Interval: N/A

DATE: LM
DESIGN BY: LM
DRAWN BY: LM
CHKD BY: LM
APPVD BY: LM
JOB NO.

PROJECT TITLE

HIDDEN CROWN PARK
HIDDEN CROWN PLACE
LOT 1, BLOCK 4
HIDDEN VILLAGE UNIT 2 SUBDIVISION
CITY OF EL PASO, EL PASO, TEXAS
AREA: 96074.14 SQ. FT. - 2.205 ACRES

SHEET TITLE

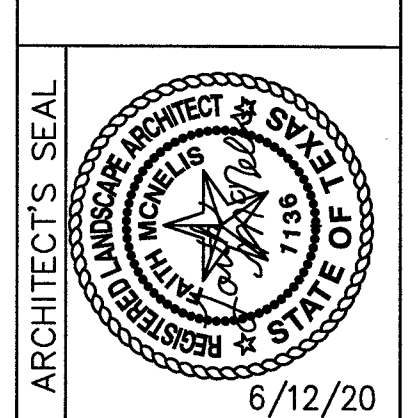
L10

IRRIGATION
DETAILS

SHEET 10 OF 12

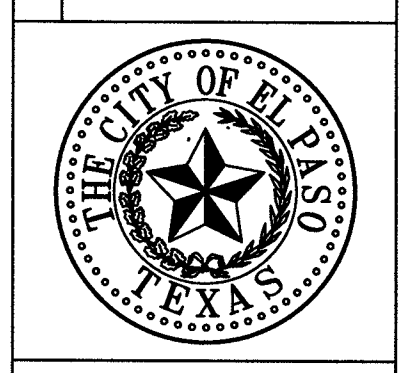
REVISIONS	DATE

LISA MCNELIS
LANDSCAPE ARCHITECT
1000 FORTWORTH
LAS CRUCES, NEW MEXICO 88007
(575) 621-8052

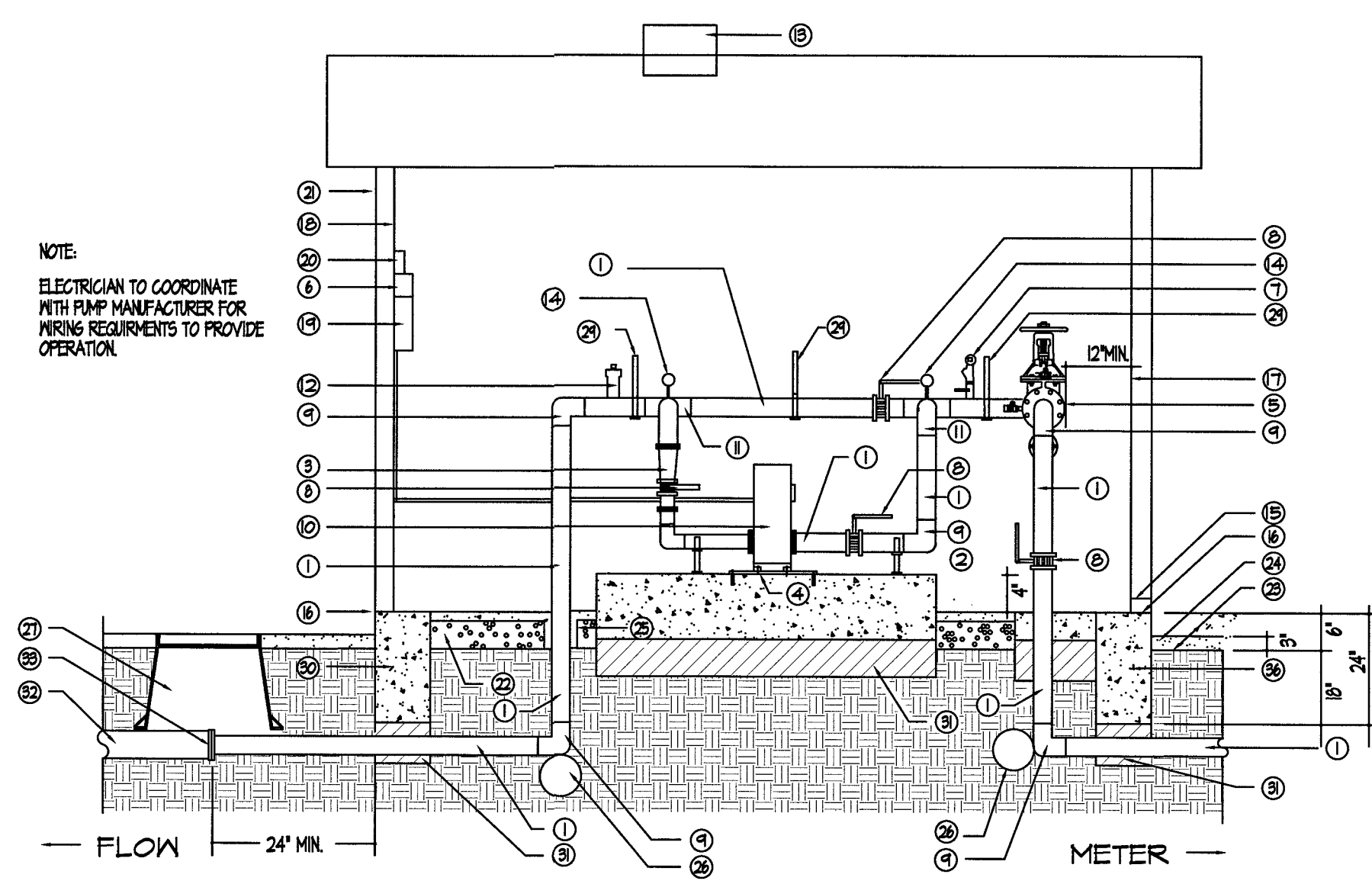


ARCHITECT'S SEAL
DATE: 6/12/20
SCALE: Horizontal: Vertical: Contour Interval: N/A
DESIGN BY: LM
DRAWN BY: LM
CHECK BY: LM
APPROV. BY: LM
JOB No.

PROJECT TITLE
HIDDEN CROWN PARK
HIDDEN CROWN PLACE
LOT 1, BLOCK 4
HIDDEN VILLAGE UNIT 2 SUBDIVISION
CITY OF EL PASO, EL PASO, TEXAS
AREA: 98074.14 SQ.FT. - 2.205 ACRES



SHEET TITLE
L11
IRRIGATION
DETAILS
SHEET 11 OF 12

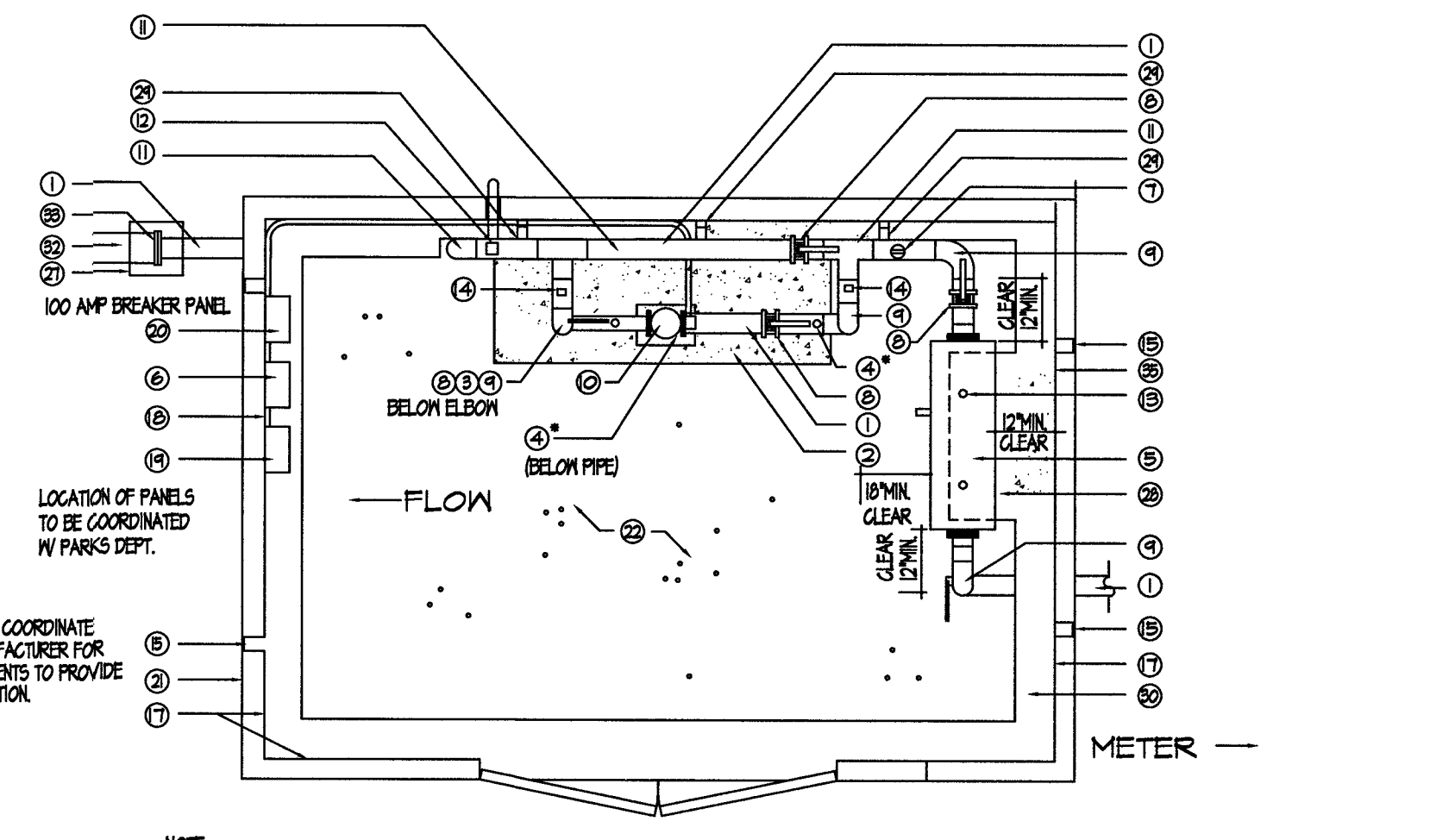


NOTE:
ELECTRICIAN TO COORDINATE WITH PUMP MANUFACTURER FOR WIRING REQUIREMENTS TO PROVIDE OPERATION.

KEYED NOTES FOR DETAILS 12 AND 13

- ① TYPE K COPPER - SEE PLANS FOR SIZE
- ② CONCRETE SLAB BELOW PUMP - 3000 PSI 4" HIGHER THAN BUILDING FOOTING
- ③ CONCENTRIC REDUCER IF PUMP OUTLET IS LESS THAN 2"
- ④ STEEL SUPPORTS WITH ISOLATORS BOLTED TO CONCRETE
- ⑤ MILKING 3/8" 25' BACKFLOW PREVENTER
- ⑥ FENSTAR VARIABLE FREQUENCY DRIVE
- ⑦ HERZOG DA SWITCH - HIGH/LOW CUT OFF SWITCH MUST BE VERTICAL AND LEVEL WIRE TO PUMP PANEL
- ⑧ 1/8" STYLE BUTTERFLY VALVE
- ⑨ COPPER ELBOW
- ⑩ BERKELEY VARIABLE FREQUENCY DRIVE PUMP IN 2 HP MOTOR FLANGED MOUNTED ON CONCRETE SLAB WITH 1/2" OR THICKER SOLE PLATE TAPPED FOR HOLD DOWN BOLTS. USE RUBBER ISOLATORS BETWEEN PUMP AND SOLE PLATE. REFER TO BERKELEY CENTRIFUGAL PUMP OWNER'S MANUAL P. 5
- ⑪ COPPER TEE
- ⑫ PRESSURE RELEASE VALVE VENT TO OUTSIDE OF PUMP HOUSE
- ⑬ METAL STATIC VENT
- ⑭ 100 PSI PRESSURE GAUGE
- ⑮ INSTALL KNOCK OUT DRAINS W/ STURDY METAL LOUVERS (N=)
- ⑯ TOP OF SHED FOOTING
- ⑰ WAFER BOARD IN WALLS AND CEILING
- ⑱ 3/4" CDX PLYWOOD BEHIND CONTROLLER AND ELEC. PANEL
- ⑲ CONTROLLER WITHIN 8' OF PUMP RELAYS. SEE DETAIL M SHEET L6
- ⑳ PUMP PANEL WITH NEMA 3R ENCLOSURE REFER TO BERKELEY PUMP MANUFACTURER'S RECOMMENDED COMPONENTS FOR PUMP PROTECTION DURING OPERATION. MUST MEET ALL LOCAL ELEC. CODE REQUIREMENTS.
- ㉑ 8' X 12' PREMIER RANCH TUFF SHED. DOOR LOCATION APPROVED BY PARKS.
- ㉒ 4" MINIMUM DEPTH PEA GRAVEL
- ㉓ FINISHED GRADE
- ㉔ 3" LAYER OF GRAVEL (OUTSIDE SHED)
- ㉕ USE "LEAVE OUT" IN CONCRETE OR PVC SLEEVE
- ㉖ THRUST BLOCK
- ㉗ JIMBO CARSON BOX 18" DEPTH FOR INSPECTION
- ㉘ 4" SLAB BELOW BACKFLOW FOR STEEL SUPPORTS
- ㉙ UNISTRUT PIPE SUPPORT SYSTEM - DETAILS PROVIDED TO PARKS
- ㉚ 12"x24" CONCRETE FOOTING SEE T ON SHEET L12
- ㉛ UNDISTURBED SOIL OR COMPACTED FILL TO MODIFIED PROCTOR 95% BELOW ALL CONCRETE
- ㉜ SCHEDULE 40 PVC MAN
- ㉝ COPPER FLANGE TO PVC SCHEDULE 80 FLANGE

17 BOOSTER PUMP AND ENCLOSURE - SECTION/ELEVATION
NOT TO SCALE



NOTE:
ELECTRICIAN TO COORDINATE WITH PUMP MANUFACTURER FOR WIRING REQUIREMENTS TO PROVIDE 3 PHASE OPERATION.

*NOTE:
DO NOT LET THE WEIGHT OF THE PIPE REST ON THE PUMP. INSTALL PIPE SUPPORTS AS SHOWN. ADD SUPPORTS IF NECESSARY.
TYPE K COPPER SHALL BE USED FOR COPPER INSTALLED FROM SERVICE LINE THROUGH THE BACKFLOW AND PUMP.

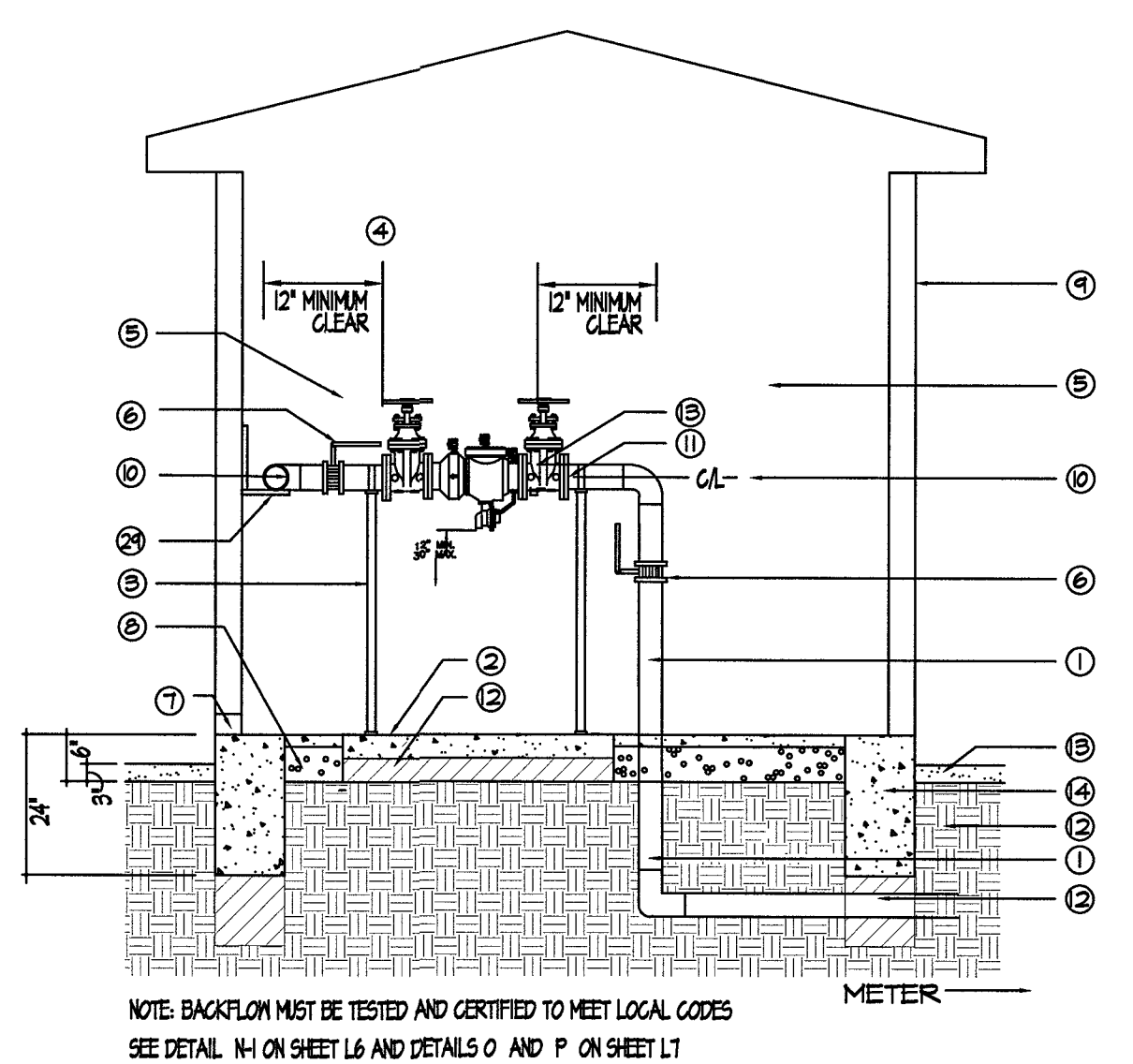
SHED AND COMPONENTS MAY BE REORIENTED IN THE FIELD BASED ON WATER METER LOCATION. MAINTAIN CLEARANCES AND ORDER OF COMPONENTS SHED MUST BE SET BEHIND BLDG SETBACKS.

8' X 12' PREMIER RANCH TUFF SHED. DOOR LOCATION APPROVED BY PARKS.

18 BOOSTER PUMP AND ENCLOSURE - PLAN VIEW
NOT TO SCALE

APPROVED FOR CONSTRUCTION
Parks & Recreation Department-Planning

KARLA CHAVEZ
DATE: 7/6/2020
BY: K.C.

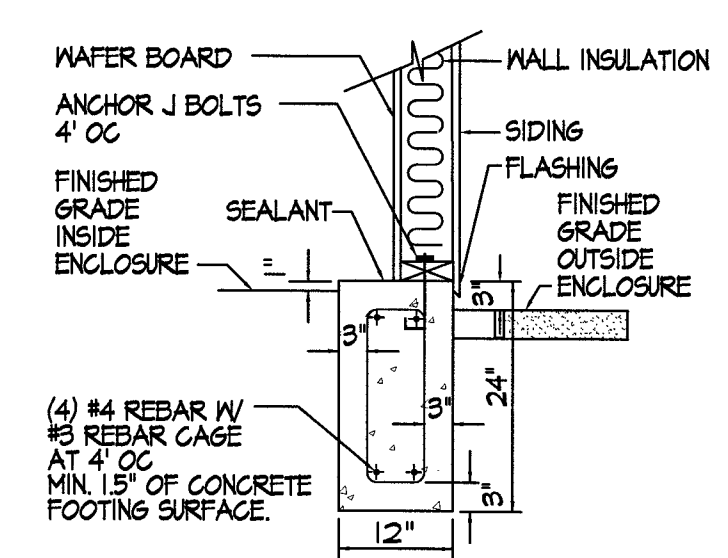


NOTE: BACKFLOW MUST BE TESTED AND CERTIFIED TO MEET LOCAL CODES SEE DETAIL H1 ON SHEET L6 AND DETAILS O AND P ON SHEET L1

- ① TYPE K COPPER - SEE PLANS FOR SIZE
- ② 4" CONCRETE SLAB BELOW BACKFLOW 3000 PSI CONCRETE SAME POUR AS SHED FOOTING
- ③ STEEL SUPPORTS WITH RUBBER ISOLATORS BOLTED TO CONCRETE
- ④ UNISTRUT PIPE SUPPORT SYSTEM - DETAIL TO BE APPROVED BY PARKS.
- ⑤ BACKFLOW PREVENTER - SEE PLANS
- ⑥ BUTTERFLY VALVE
- ⑦ INSTALL KNOCK OUT DRAINS WITH STURDY METAL LOUVERS
- ⑧ 4" DEPTH OF PEA GRAVEL
- ⑨ 8' X 12' TUFF SHED. DOOR LOCATION TO BE APPROVED BY PARKS.
- ⑩ MUST ALIGN WITH BY-PASS ABOVE PUMP
- ⑪ COPPER UNION (FLANGED)
- ⑫ UNDISTURBED SOIL OR COMPACTED FILL TO MODIFIED PROCTOR 95% BELOW ALL CONCRETE.
- ⑬ 3" LAYER OF GRAVEL OUTSIDE OF SHED
- ⑭ 12' X 24" CONCRETE FOOTING MINIMUM SIZE BELOW WALLS. SEE DETAIL T ON L12.

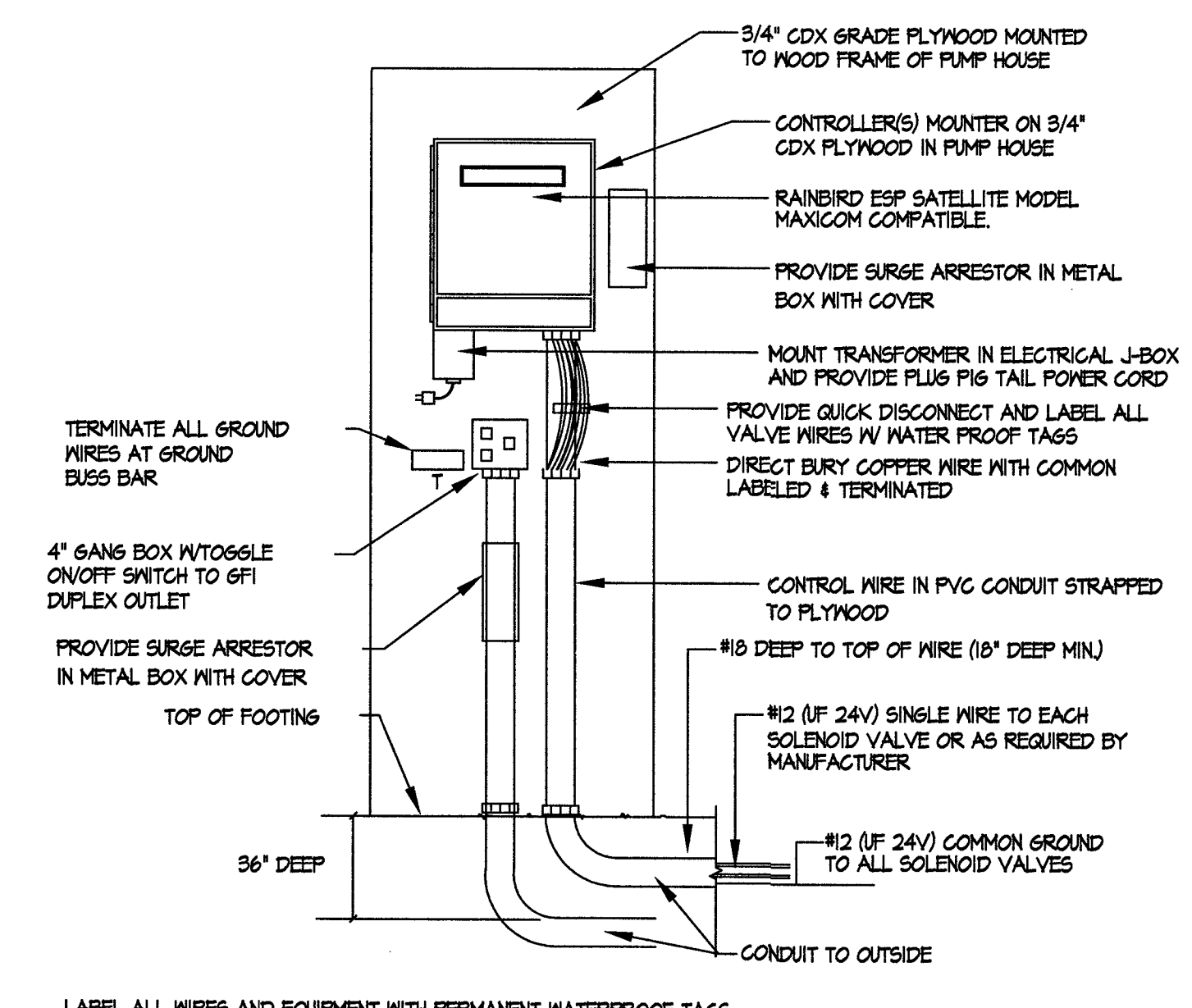
PROVIDE CLEARANCES FOR BACKFLOW DEVICE OF:
12" ON BACKSIDE
12" ON SUPPLY AND DISCHARGE SIDES
18" ON FRONT SIDE (TEST SIDE)

19 BACKFLOW IN PUMP ENCLOSURE - SECTION/ELEVATION
NOT TO SCALE



NOTES:
ALL SIDING AND TRIM WORK TO BE CAULKED THEN PRIME, USE 2 COATES OF PAINT (COLOR SELECTED BY PARKS AND RECREATION DEPT).
INSTALL KNOCK-OUT DRAINS WITH STURDY METAL LOUVERS AT BASE OF PUMP HOUSE IN CASE OF LEAKS.
SEE DETAILS N, O AND P ON SHEETS L6 AND L7 FOR MORE INFORMATION.

20 PUMP ENCLOSURE FOOTING DETAIL - SECTION/ELEVATION
NOT TO SCALE



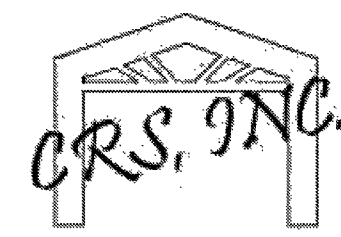
LABEL ALL WIRES AND EQUIPMENT WITH PERMANENT WATERPROOF TAGS.

21 WALL MOUNTED CONTROLLER MAXICOM COMPATIBLE
NOT TO SCALE

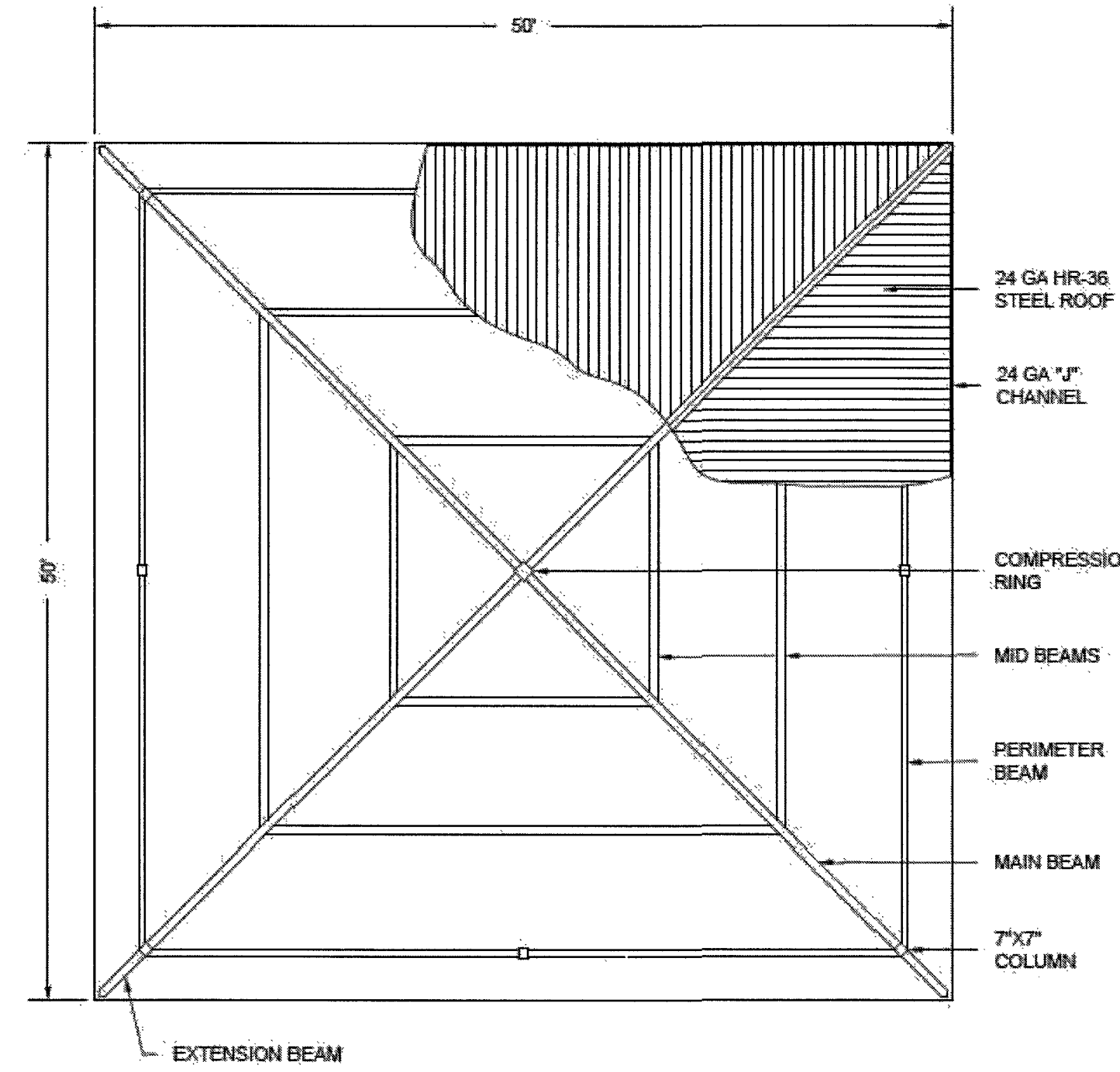
IRRIGATION IS REGULATED BY:
PO BOX 13087
AUSTIN, TEXAS 78711-3087
TCEQ 512 239-6719
CHAPTER 34, TEXAS WATER CODE
IRRIGATOR'S LIC. #8947



6/12/20

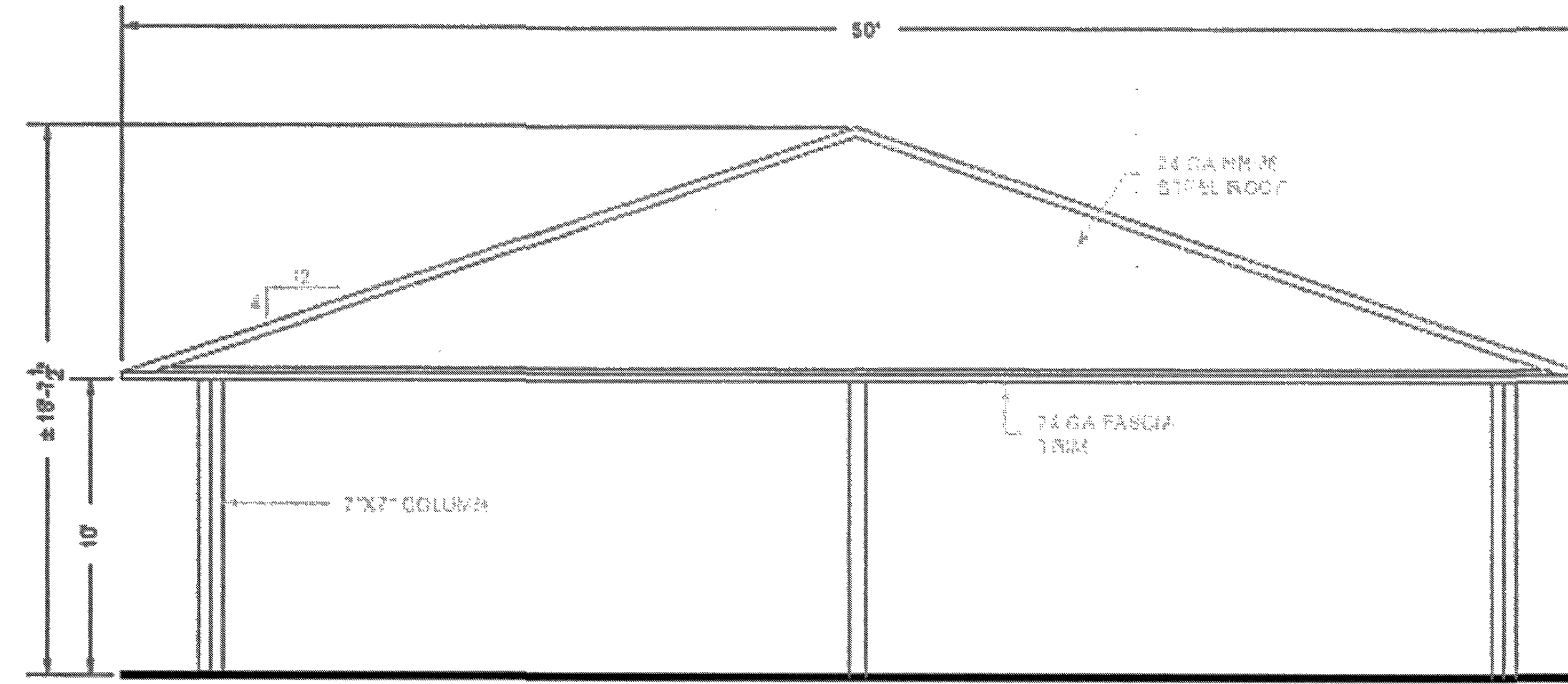


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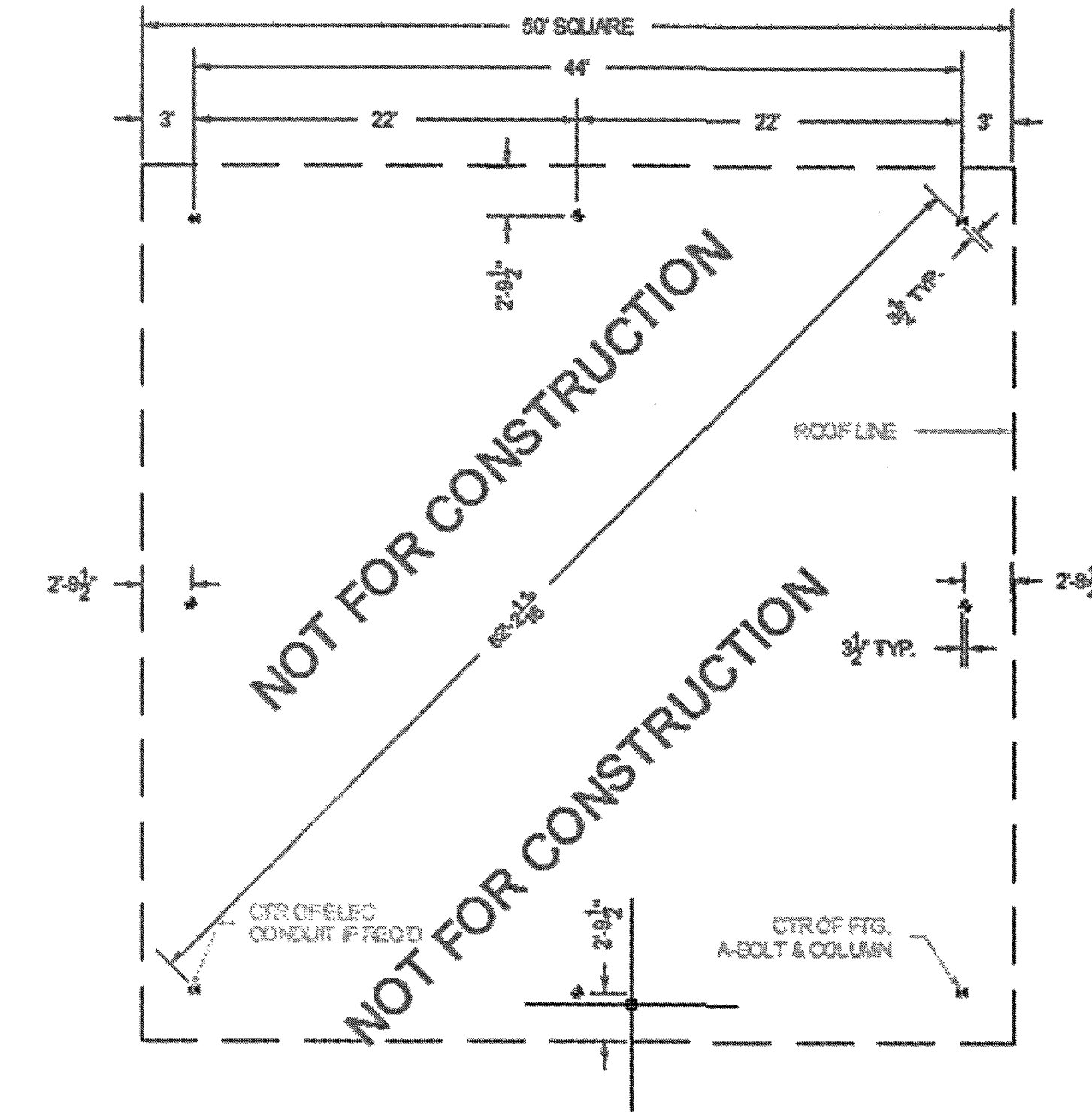


PLAN VIEW 50'X50' MESA MODEL NTS

NOT FOR CONSTRUCTION



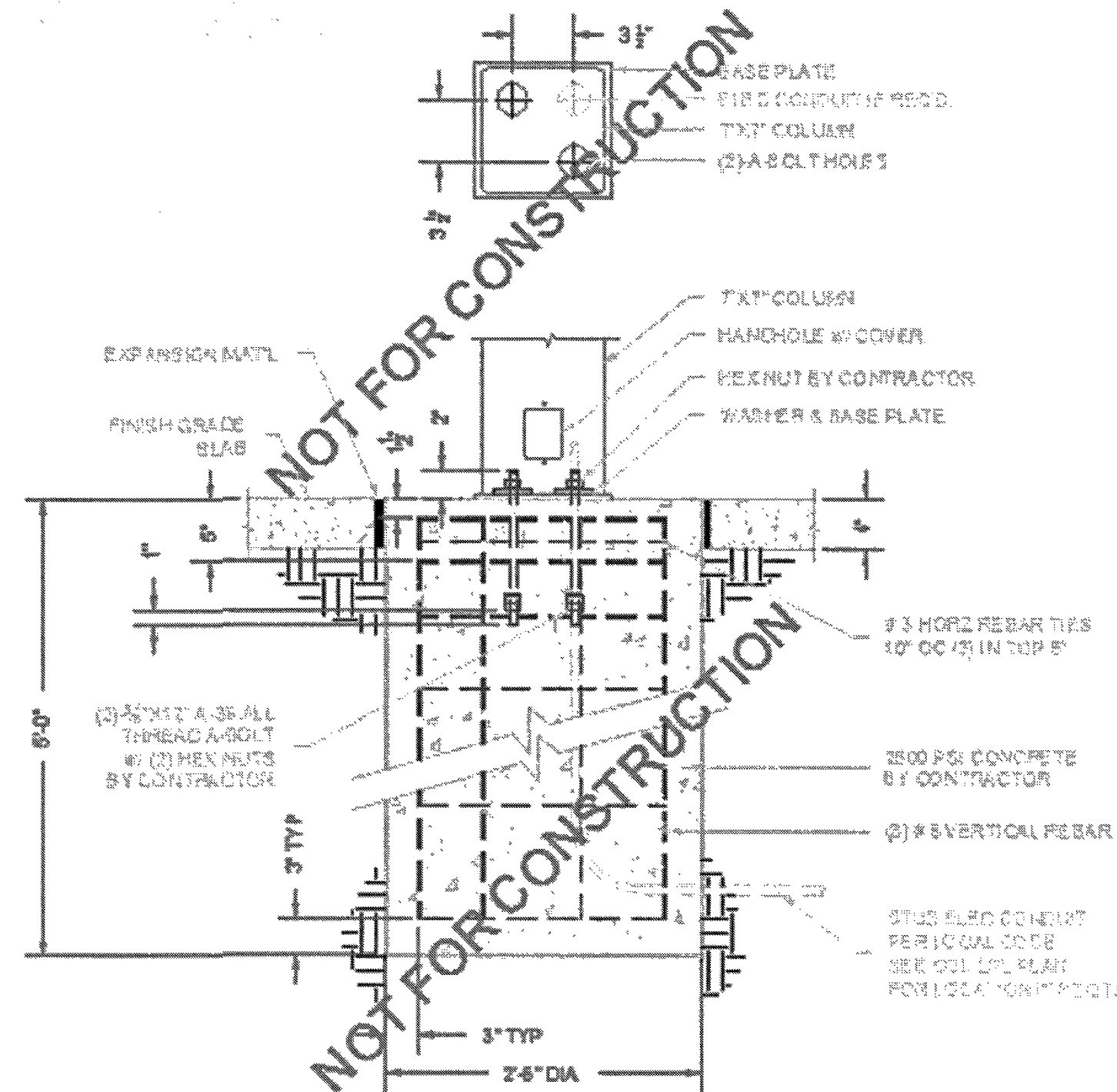
ELEVATION 50'X50' MESA MODEL NTS



LAYOUT PLAN 50'X50' MESA MODEL NTS



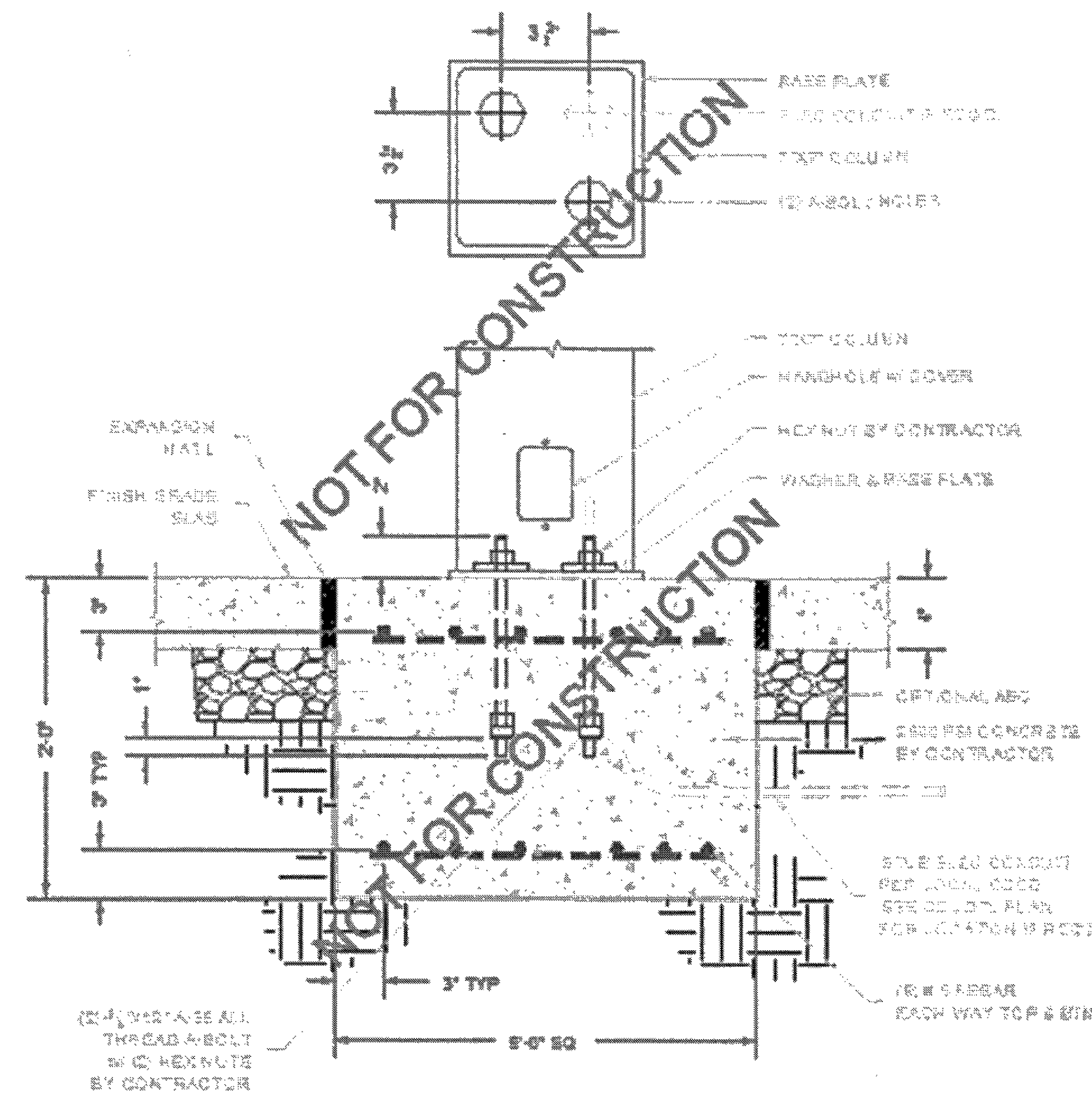
NOTE: FOR ILLUSTRATION ONLY!
FOOTING SIZE MAY CHANGE W/
STRUCTURAL ENGINEERING



2-BOLT SURFACE MOUNT CAISSON FOOTING
50'X50' MESA MODEL NTS



NOTE: FOR ILLUSTRATION ONLY!
FOOTING SIZE MAY CHANGE W/
STRUCTURAL ENGINEERING



2-BOLT SURFACE MOUNT SPREAD FOOTING
50'X50' MESA MODEL NTS

APPROVED FOR CONSTRUCTION
Parks & Recreation Department Planning

KARLA CHAVEZ

SIGNATURE
7/6/2020
DATE

REVISIONS
DATE

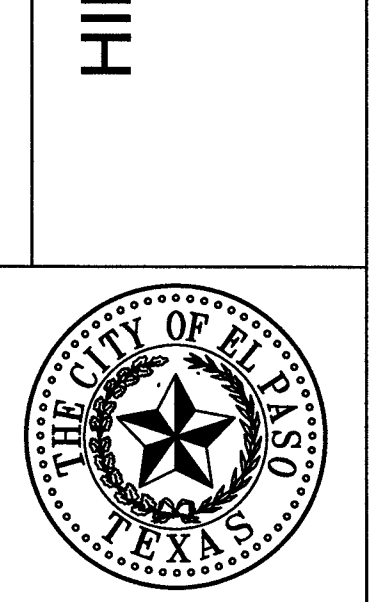
LISA MC NEELIS
LANDSCAPE ARCHITECT
100 FOXBORO
LAS CRUCES, NEW MEXICO 88007
(505) 621-9033

ARCHITECT'S SEAL

SCALE
Horizontal: N/A
Vertical: Contour Interval: N/A

DATE: LM
DESIGN BY: LM
DRAWN BY: LM
CHECKED BY: LM
APPROVED BY: LM
JOB No.

PROJECT TITLE
HIDDEN CROWN PARK
HIDDEN CROWN PLACE
LOT 1, BLOCK 4
HIDDEN VILLAGE UNIT 2 SUBDIVISION
CITY OF EL PASO, EL PASO, TEXAS
AREA: 96074.14 SQ. FT. - 2.205 ACRES



SHEET TITLE
L12
SHELTER
DETAILS
SHEET 12 OF 12

ELECTRICAL GENERAL NOTES:

- THESE ELECTRICAL GENERAL NOTES ARE APPLICABLE TO ALL ELECTRICAL SHEETS IN THIS PROJECT SET.
- THE ELECTRICAL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE APPLICABLE AND ADOPTED PROVISIONS OF THE FOLLOWING CODES:
 - 2014 NATIONAL ELECTRICAL CODE
 - 2015 INTERNATIONAL BUILDING CODE
 - 2015 INTERNATIONAL PLUMBING CODE
 - 2015 INTERNATIONAL MECHANICAL CODE
 - 2015 INTERNATIONAL FIRE CODE
 - 2015 INTERNATIONAL FUEL CODE
 - 2015 INTERNATIONAL ENERGY CONSERVATION CODE
- AS ADOPTED AND INTERPRETED BY THE STATE OF TEXAS, CITY OF EL PASO AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) ADOPTED EDITION READING ROOMS, ELECTRICAL SYSTEMS, FIRE PROTECTION AND ALARM SYSTEMS AND ASSOCIATED MECHANICAL AND PLUMBING SYSTEMS. ALL LABOR AND MATERIALS NECESSARY TO COMPLY WITH RULES, REGULATIONS AND ORDINANCES SHALL BE PROVIDED, WHERE THE DRAWINGS INDICATE MATERIALS OR CONSTRUCTION IN EXCESS OF CODE REQUIREMENTS, THE DRAWINGS SHALL GOVERN. THE CONTRACTOR SHALL HOLD AND SAVE THE OWNER, ARCHITECT AND ENGINEER FREE AND HARMLESS FROM LIABILITY OF ANY NATURE OR KIND ARISING FROM HIS FAILURE TO COMPLY WITH ALL APPLICABLE CODES AND ORDINANCES.
- THE CONTRACTOR SHALL COORDINATE WITH OWNER, ARCHITECT, AND ENGINEER ANY WORK THAT HAS THE POTENTIAL TO INTERFERE WITH THE WORK OF OTHER TRADES. ALL SHUT-DOWNS OR TE-INS RELATING TO THESE SYSTEMS SHALL BE SCHEDULED AND SUBMITTED TO BE APPROVED BY THE OWNER'S FACILITY MANAGEMENT, OWNER, ARCHITECT, OR ENGINEER. CONTRACTOR SHALL SUBMIT IN WRITING A SCHEDULE FOR PHASING OF CONSTRUCTION THAT INDICATES AREAS OF FIRST PRIORITY DURING EACH PHASE AND ANTICIPATED COMPLETION TIMES. SCHEDULES SHALL BE SUBMITTED A MINIMUM OF ONE WEEK PRIOR TO COMMENCING WORK. FACILITY MANAGEMENT, OWNER, ARCHITECT OR ENGINEER SHALL REVIEW THESE SCHEDULES AND NOTIFY CONTRACTOR TO COMPLY PRIOR TO COMMENCEMENT OF WORK.
- ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH CODES AND RULES, REGULATIONS AND ORDINANCES SHALL BE PROVIDED. WHERE THE DRAWINGS AND/OR SPECIFICATIONS INDICATE MATERIALS OR CONSTRUCTION IN EXCESS OF CODE REQUIREMENTS, THE DRAWINGS AND/OR SPECIFICATIONS SHALL GOVERN. THE CONTRACTOR SHALL HOLD AND SAVE THE OWNER, ARCHITECT AND ENGINEERS FREE AND HARMLESS FROM LIABILITY OF ANY NATURE OR KIND ARISING FROM HIS FAILURE TO COMPLY WITH ALL APPLICABLE CODES AND ORDINANCES.
- BIDDERS SHALL VISIT THE SITE AND BE RESPONSIBLE FOR HAVING ASCERTAINED PERTINENT LOCAL CONDITIONS SUCH AS LOCATION, ACCESSIBILITY AND GENERAL CHARACTER OF THE SITE. THE CHARACTER AND EXTENT OF THE WORK WITHIN THE BUILDING AND TO BECOME FAMILIAR WITH ALL OTHER WORK TO BE PERFORMED AT THIS TIME. NO ADDITIONAL COMPENSATION WILL BE ALLOWED DUE TO CONTRACTOR'S FAILURE TO DETERMINE ALL CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED.
- BEFORE YOU DIG ALL EXISTING UTILITIES, I.E. WATER, SEWER, GAS, FIRE LINE, ELECTRICITY, CABLE, TELEPHONE, IRRIGATION LINES, SHALL BE LOCATED AND CLEARLY MARKED IN ORDER TO AVOID UNNECESSARY SHUT DOWNS AND EMERGENCY.
- EACH CONTRACTOR SHALL OBTAIN ALL REQUISITE NOTICES AND FILLED OUT APPLICATIONS, OBTAIN AND PAY FOR ALL PERMITS, DEPOSITS AND FEES (INCLUDING UTILITY CONNECTIONS FEES, ANY UTILITY EXTENSION FEES, TAP FEES, DEVELOPMENT FEES, AND IMPACT FEES) NECESSARY FOR THE INSTALLATION OF WORK UNDER THESE NOTES. TWO (2) COPIES OF CERTIFICATES OF APPROVAL SHALL BE OBTAINED FROM ALL AUTHORITIES ISSUING SAME AND SHALL BE TURNED OVER TO OWNER, ARCHITECT, ENGINEER PRIOR TO FINAL ACCEPTANCE OF THE WORK.
- REQUIRED INSURANCE SHALL BE PROVIDED BY THIS CONTRACTOR FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF WORK. CONTRACTOR SHALL SECURE AND PAY ALL PERMITS, FEES, INSPECTIONS, AND TESTS UNLESS OTHERWISE INDICATED. COORDINATE WITH ARCHITECT, ENGINEER OR OWNER. SUBSTITUTIONS REQUESTED BY THE CONTRACTOR SHALL BE PAID FOR BY THE CONTRACTOR.
- ALL WORK SHALL CONFORM WITH FEDERAL, STATE AND LOCAL CODES, RULES, AND REGULATIONS. ALL WORK SHALL BE PERFORMED BY A LICENSED CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE SYSTEMS SHALL BE INSTALLED COMPLETE AND FULLY OPERATIVE UNLESS OTHERWISE INDICATED.
- CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND PROVIDE A WRITTEN REPORT TO THE ARCHITECT AND THE ENGINEERING OFFICES. THIS REPORT SHALL DESCRIBE EXISTING CONDITIONS THAT MAY INTERFERE WITH THIS PROPOSED NEW WORK. THIS SITE SURVEY SHALL ALSO INCLUDE VERIFICATION OF SIZES, LOCATIONS, AND CONDITIONS OF EXISTING UTILITIES. QUESTIONS REGARDING THESE DRAWINGS SHALL BE ADDRESSED TO THE ENGINEER PRIOR TO THE AWARDED OF THE CONTRACT. OTHERWISE THE ENGINEER'S INTERPRETATION OF THE MEANING AND INTENT OF THE DRAWINGS SHALL BE FINAL.
- DURING CONSTRUCTION IF THE CONTRACTOR ENCOUNTERS AND DAMAGES THE EXISTING UNDERGROUND INFRASTRUCTURE THE CONTRACTOR SHALL REPAIR THE INFRASTRUCTURE AT NO ADDITIONAL COST TO THE OWNER. WHERE STRUCTURE IS ALTERED OR DAMAGED DURING CONSTRUCTION, INSTALLATION AND REMOVAL OF EQUIPMENT OR FIXTURES, THE CONTRACTOR SHALL REPAIR THE AREA TO MATCH SURROUNDING AREA PER ARCHITECTURAL SPECIFICATIONS, CUTTING, TRENCHING AND PENETRATIONS THROUGH FIRE WALL, CONCRETE AND OTHER STRUCTURES ARE A PART OF THIS PROJECT SCOPE AND SHALL BE INCLUDED IN THE CONTRACTOR'S BID. ALL EXCAVATION AND BACKFILLING REQUIRED FOR PLUMBING WORK IS ALSO INCLUDED AS PART OF THIS CONTRACT AND SHALL BE INCLUDED IN CONTRACTOR'S BID.
- ALL SYSTEMS AND COMPONENTS SHALL BE APPROVED FOR THE PURPOSE FOR WHICH INSTALLED. ALL EQUIPMENT AND MATERIALS SHALL BE NEW AND FROM ESTABLISHED AMERICAN SUPPLIERS UNLESS OTHERWISE INDICATED.
- ALL EQUIPMENT PARAMETERS SHOWN ARE FOR PERFORMANCE AT SITE ALTITUDE. SUPPLIERS SHALL SELECT AND DEMONSTRATE THAT THEIR EQUIPMENT MEETS THE DESIGN CONDITIONS AT SITE ALTITUDE.
- ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL/ PLUMBING CONTRACTOR THE MECHANICAL/ PLUMBING EQUIPMENT'S ELECTRICAL REQUIREMENTS, INCLUDING POWER, CONTROL, COMMUNICATION, AND MONITORING, OF EACH DEVICE PROVIDED AND/OR INSTALLED BY MECHANICAL/PLUMBING CONTRACTOR.
- SUPPORT SYSTEM FOR EQUIPMENT SUPPORTED BY THE BUILDING STRUCTURE SHALL BE SUBMITTED TO THE STRUCTURAL ARCHITECT PRIOR TO APPROVAL. REPAIR AND INSTALLATION, NO WIRE OR PERFORATED STRAP WILL BE PERMITTED FOR ANY HANGER OR SUPPORT.
- THE CONTRACTOR SHALL NOT SCALE THE CONTRACT DOCUMENTS, THE CONTRACT DOCUMENTS ARE DIAGRAMMATIC IN NATURE AND DO NOT COMPLETELY DEPICT ALL EXISTING CONDITIONS IN THE AREA.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOOK THROUGH ALL DRAWINGS ASSOCIATED WITH THIS PROJECT. WORK ASSOCIATED WITH THE ELECTRICAL CONTRACTOR'S TRADE MAY BE SHOWN ON OTHER DRAWINGS. ANY ADDITIONAL COSTS RESULTING FROM THE FAILURE TO INCLUDE THESE ITEMS SHOWN ON OTHER DRAWINGS WILL BE INCURRED BY THE CONTRACTOR. SHOULD THE CONTRACTOR ENCOUNTER ANY DISCREPANCIES OR INCONSISTENCIES IN THE CONSTRUCTION DOCUMENTS, THE MORE STRINGENT SHALL GOVERN.
- CONTRACTOR SHALL FIELD VERIFY CONDITION OF EXISTING EQUIPMENT AND PROVIDE NECESSARY COMPONENTS TO ASSEMBLE AND TO START-UP COMPLETE AND FULLY OPERATIONAL SYSTEMS.
- POSITIONING OF NEW LAY-IN FIXTURES TAKES PRECEDENCE OVER ARCHITECTURAL, REFLECTED CEILING PLAN AND MECHANICAL DIFFUSERS PRIOR TO INSTALLATION OF FIXTURES. CONTRACTOR SHALL COORDINATE ACTUAL LOCATIONS OF LIGHTS WITH AIR DEVICES AND DUCTWORK, CEILING PANELS, JUST SPACING AND ARCHITECTURAL REFLECTED CEILING PLAN (REF. MECHANICAL, PLUMBING).
- PROVIDE OWNER WITH THREE (3) COPIES OF ALL INSTALLATION INSTRUCTIONS, PRODUCT DATA SUBMITTAL INFORMATION, WARRANTIES, CONTACT INFORMATION DURING WARRANTY PERIOD AND BALANCING REPORTS IN 3-RING BINDERS AND CD VERSION.
- FOR OUTDOOR EQUIPMENT ON GRADE AND INDOOR FLOOR MOUNTED EQUIPMENT, THE CONTRACTOR SHALL CONSTRUCT LEVEL, 3000 PSI CONCRETE/6 DAY COMPRESSIVE STRENGTH SLABS WITH FINISHED EDGES, WIRE REINFORCED MINIMUM SIZE #14 OR HEAVIER PER ASTM A186, MINIMUM 3" (2" THIN) AND MINIMUM 4" LARGER ON ALL SIDES THAN THE EQUIPMENT BEING SUPPORTED. THE PAD SHALL HAVE 2 COATS OF EPOXY SEALANT TO SEAL THE PAD.
- CONTRACTOR SHALL MAKE NO PENETRATIONS WHATSOEVER OF WALLS FORMING PART OF A STAIRWELL, AN EXIT PASSAGEWAY, OR OTHER TWO-HOUR RATED WALLS. ALL CONDUITS SHALL RUN PARALLEL TO WALLS.
- CONTRACTOR SHALL SAW CUT AND PATCH ASPHALT, CONCRETE OR OTHER MATERIAL ENCOUNTERED AS REQUIRED TO INSTALL NEW UNDERGROUND RACEWAY. REFER TO ARCHITECTURAL SPECIFICATIONS REGARDING PATCHING REQUIREMENTS.
- CONTRACTOR SHALL PROVIDE AND INSTALL IDENTIFICATION TAGS FOR EQUIPMENT AND CONDUITS PER ASME 13.1 SCHEME OF IDENTIFICATION FOR PIPING. BURIED ELECTRICAL CONDUITS SHALL BE MARKED PER CODE REQUIREMENTS WITH UNDERGROUND WARNING TAPE 3" BELOW FINISHED GRADE. TAPE SHALL BE 4" WIDE COLORED RED WITH SUITABLE WARNING LEGEND PER ASME 13.1.1 SCHEME OF IDENTIFICATION FOR PIPING.
- CONTRACTOR SHALL TAKE PRECAUTIONS PER THE ARCHITECT'S INSTRUCTIONS TO PROTECT EXISTING TREES AND/OR OTHER SITE VEGETATION.
- CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ALTERNATES AND ALLOWANCES FOR THIS PROJECT.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND HAVE INSTALLED ANY ACCESS DOOR REQUIRED TO ACCESS NEW AND EXISTING ELECTRICAL EQUIPMENT THAT REQUIRES ACCESS BEHIND OUPBOARD OR HARD CEILING AND IN WALLS. THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE GENERAL CONTRACTOR WITH THESE ACCESS DOORS FOR INSTALLATION IN THE CEILING OR WALL ACCESS DOORS SHALL BE RATED FOR THE WALL, FLOOR, OR CEILING TYPE AND [SHALL BE A MINIMUM SIZE OF 12"x12" (OR SIZED PER SPECIFICATIONS.)]
28. SITE VISIT REPORTS: DURING THE COURSE OF THE JOB, THE ENGINEER WILL MAKE SITE AND INSPECTION VISITS TO OBSERVE WORK IN PROGRESS AND WILL SUBSEQUENTLY PREPARE A WRITTEN SITE VISIT REPORT, WHICH WILL BE SENT TO THE CONTRACTOR AND TO WHOMEVER ELSE THE ENGINEER DESIRES. THE CONTRACTOR SHALL PROVIDE 48 HOUR WRITTEN NOTICE TO THE ENGINEER FOR ALL TESTING AND CITY INSPECTION SO THEY CAN ATTEND THESE INSPECTIONS. THE CONTRACTOR SHALL PREPARE A WRITTEN AND TYPED RESPONSE WITH SEVEN (7) CALENDAR DAYS OF HIS RECEIVING THE SITE VISIT REPORT. THE CONTRACTORS SHALL ACCOMPANY THE ENGINEER DURING THIS FINAL PUNCHLIST VISIT UPON THE REQUEST OF THE ENGINEER. THE GENERAL CONTRACTOR SHALL INCLUDE IN HIS RESPONSE THE FOLLOWING INFORMATION:
 - DATE OF SITE VISIT BY THE ENGINEER,
 - DATE OF RECEIPT OF THE SITE VISIT REPORT,
 - NAME AND TITLE OF THE PREPARER OF THE RESPONSE,
 - AN ITEM NUMBER REFERENCED TO THE SITE REPORT,
 - A BRIEF THREE OR FOUR WORD DESCRIPTION OF THE ITEM,
 - THE CONTRACTOR OR SUBCONTRACTOR AFFECTED,
 - THE PROPOSED COURSE OF ACTION, AND
 - AN EXPECTED TIME OF COMPLETION OF THE ACTION.
29. FINAL PUNCH REPORTS: AT THE COMPLETION OF THE JOB, THE ENGINEER WILL MAKE PUNCHLIST SITE VISITS TO OBSERVE COMPLETED WORK AND WILL SUBSEQUENTLY PREPARE A WRITTEN SITE VISIT PUNCHLIST REPORT, WHICH WILL BE SENT TO THE CONTRACTOR AND TO WHOMEVER ELSE THE ENGINEER DESIRES. THE CONTRACTOR, UPON COMPLETION OF THE LISTED PUNCHLIST ITEMS, SHALL PREPARE A TYPEWRITTEN RESPONSE TO THE LISTED PUNCHLIST ITEMS OF EACH ITEM. THE CONTRACTOR SHALL INCLUDE IN HIS RESPONSE THE RESOLUTION OF EACH ITEM. THE CONTRACTORS SHALL ACCOMPANY THE ENGINEER DURING THIS FINAL PUNCHLIST VISIT UPON THE REQUEST OF THE ENGINEER.
30. ALL ELECTRICAL CONDUIT AND PANEL OPENINGS SHALL BE CAPPED DURING DEMOLITION AND CONSTRUCTION.
31. SUBSTITUTED PRODUCTS:
 - A. MATERIAL OR EQUIPMENT SPECIFIED BY MANUFACTURER'S NAME IS BEING USED AS A BASIS OF STANDARD. NO SUBSTITUTION IS ALLOWABLE WITHOUT ENGINEER'S WRITTEN APPROVAL. TEN (10) DAYS PRIOR TO BID DATE UNLESS THE MANUFACTURER IS LISTED ON THE DRAWINGS OR IN THE SPECIFICATION AS BEING A PREAPPROVED ALTERNATIVE MANUFACTURER. ANY SUBMITTAL RECEIVED WITHOUT SUCH WRITTEN APPROVAL OR PRIOR APPROVAL IS SUBJECT TO UNQUALIFIED REJECTION.
 - B. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT SUBMITTED SUBSTITUTE EQUIPMENT WILL FIT IN SPACE AVAILABLE. THE CONTRACTOR'S SUBMITTAL FOR ACCEPTANCE OF THE SUBSTITUTE SHALL INCLUDE A WRITTEN STATEMENT OF WHETHER OR NOT SUCH ACCEPTANCE WOULD REQUIRE ANY SUBSEQUENT OR ASSOCIATED CHANGES TO THE DRAWINGS OR SPECIFICATIONS, ANY SUCH CHANGES SHALL BE DESCRIBED IN WRITING, BRIEFLY BUT COMPLETE.
 - C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COSTS OF ANY SUCH MODIFICATIONS DUE TO SUBSTITUTION OF MATERIALS OR EQUIPMENT FOR THAT WHICH WAS SPECIFIED OR SCHEDULED. THE COST SHALL BE COMPLETE, THAT IS, IT SHALL INCLUDE THE COST EFFECT OF ANY AND ALL OTHER TRADES.
 - D. THE ENGINEER MAY REQUEST DETAILED SHOP DRAWING OR PLAN LAYOUTS OF MECHANICAL ROOMS OR SYSTEMS OF THE SUBSTITUTED EQUIPMENT.

- SHOULD A SUBSTITUTION BE APPROVED BY THE ENGINEER (BASED UPON THE SUBSTITUTION SUBMITTAL REVIEW) AND ACCEPTED, THE SUBSTITUTED MATERIAL OR EQUIPMENT PROVE DEFECTIVE, NOT MEETING DESIGN PARAMETERS, OR OTHERWISE UNSATISFACTORY FOR THE SERVICE INTENDED WITHIN THE GUARANTEED PERIOD, THIS MATERIAL OR EQUIPMENT SHALL BE REPLACED WITH THE MATERIAL OR EQUIPMENT SPECIFIED AT NO ADDITIONAL COST TO THE OWNER.
32. SUBMITTAL REQUIREMENTS:
 - A. THE INTENT OF THIS SECTION IS TO OBTAIN GENERAL SUBMITTAL INFORMATION. REFER TO SPECIFIC SUBMITTAL INFORMATION IN THE SUBSEQUENT ELECTRICAL SECTIONS.
 - B. WITHIN 10 DAYS AFTER RECEIVING AND BEFORE ORDERS ARE PLACED, CONTRACTOR SHALL SUBMIT SPECIFIC INFORMATION ON LIST OF EQUIPMENT AND PRINCIPAL MATERIALS SPECIFIED. CONTRACTOR SHALL INDICATE AND/OR PROVIDE NAMES OF MANUFACTURERS, CATALOG AND MODEL NUMBERS, CUT SHEETS, AND SUCH OTHER SUPPLEMENTARY INFORMATION AS NECESSARY FOR EVALUATION. MINIMUM OF SIX (6) COPIES, OR AS DIRECTED BY THE ENGINEER, OF EACH SHALL BE SUBMITTED AND SHALL INCLUDE ALL ITEMS MENTIONED BY MODEL NUMBER AND/OR MANUFACTURER'S NAME IN THE SPECIFICATIONS OR IN SCHEDULES OF THE DRAWINGS.
 - C. REQUIREMENTS FOR EACH SUBMITTAL:
 - 1. BEAR A DATED STAMP OR SPECIFIC WRITTEN INDICATION THAT THE CONTRACTOR HAS REVIEWED AND APPROVED ALL SUBMITTAL, PRIOR TO SUBMISSION TO ENGINEER.
 - 2. HAVE ALL INFORMATION DELETED BY CONTRACTOR THAT PERTAINS TO THE MEANS AND METHODS OF CONSTRUCTION OR TO FABRICATION, ASSEMBLY, INSTALLATION, OR ERECTION (APPROVAL BY ENGINEER SHALL NOT EXTEND TO THESE AREAS UNLESS SPECIFICALLY NOTED BY ENGINEER).
 - 3. BE CLEARLY AND SPECIFICALLY MARKED AS TO WHICH SPECIFIC PIECES OF EQUIPMENT IS BEING SUBMITTED, BY USE OF A PERMANENT MARKER, STAMP, ETC., SO AS TO DISTINGUISH IT FROM OTHER PIECES OF EQUIPMENT THAT MAY OCCUR ON THE SAME PAGE.
 - 4. BE CLEARLY AND SPECIFICALLY MARKED AS TO WHICH AVAILABLE OPTIONS ARE BEING SUBMITTED THAT ARE ASSOCIATED WITH A PIECE OF EQUIPMENT, AND BE COMPLETE WITH RESPECT TO QUANTITIES, DIMENSIONS, SPECIFIC PERFORMANCE, MATERIALS, AND SIMILAR DATA TO ENABLE THE ENGINEER TO REVIEW THE PROPOSED EQUIPMENT.
 - 5. BE COMPLETE WITH RESPECT TO QUANTITIES, DIMENSIONS, SPECIFIC PERFORMANCE, MATERIALS, AND SIMILAR DATA TO ENABLE THE ENGINEER TO REVIEW THE PROPOSED EQUIPMENT.
 - 6. BE CLEARLY AND SPECIFICALLY MARKED AS TO ANY AND ALL SUBMITTAL DEVIATIONS FROM THE DESIGN SPECIFICATION REQUIREMENTS SHALL BE.
 - 7. OMISSION BY CONTRACTOR OF ANY OF THE ABOVE REQUIREMENTS OR SUBMITTALS WILL SUBJECT SUBMITTAL TO AUTOMATIC REJECTION WITHOUT REVIEW.
 - 8. ANY SUBMITTALS RECEIVED BY ENGINEER THAT WERE NOT REQUESTED SHALL BE RETURNED WITHOUT REVIEW OF ANY KIND. SUBMITTALS SHALL INDICATE MINIMUM ACCESS AND SERVICE CLEARANCES IF REQUIRED FOR THE EQUIPMENT.
 - D. INSTALLATION INSTRUCTIONS - FOR CERTAIN PRODUCTS OR SYSTEMS AS IDENTIFIED IN SUBSEQUENT SPECIFICATIONS SECTIONS OR ON THE DRAWINGS, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE COPIES OF MANUFACTURER'S INSTALLATION INSTRUCTIONS WITH THE SUBMITTAL. WHEN REQUIRED AS SUCH, THE INSTALLATION INSTRUCTIONS ARE CONSIDERED PART OF THE SUBMITTAL AND THEIR OMISSION MAY RESULT IN AUTOMATIC REJECTION OF THE SUBMITTAL. WHERE MORE THAN ONE IDENTICAL DEVICE ARE SCHEDULED ONLY ONE SET OF INSTALLATION INSTRUCTIONS NEED TO BE SUBMITTED. E.G. IF SEVEN 200A 200V/3P PANELS ARE SCHEDULED, ONLY ONE 200A 200V/3P PANELS INSTALLATION INSTRUCTION NEEDS TO BE SUBMITTED. SIMILARLY, IF ONE SET OF INSTALLATION INSTRUCTIONS IS IDENTIFIED BY MANUFACTURER AND ON THE INSTRUCTIONS IS APPLICABLE TO MORE THAN ONE TYPE OR SIZE OF DEVICES, E.G. IF ONE SET OF PANEL INSTRUCTIONS IS GOOD FOR 100A, 150, 200A, PANELS, THEN ONLY ONE INSTRUCTION SET IS REQUIRED FOR THESE DEVICES.
 - E. THIS ENGINEER WILL REVIEW THE SUBMITTALS FOR APPROVAL. THICE. ANY ADDITIONAL REVIEWS THAT ARE REQUIRED BY THE ENGINEER FOR WHATEVER REASON AFTER THE INITIAL TWO REVIEWS WILL RESULT IN ADDITIONAL COMPENSATION FOR THE ENGINEER'S TIME BY THE SUBMITTING CONTRACTOR AT THE ENGINEER'S RATE.
33. REQUIRED SHOP DRAWING SUBMITTALS:
 - A. LIGHTING FIXTURES (AS NOTED IN LIGHTING FIXTURE SCHEDULE)
 - B. MAIN DISTRIBUTION PANEL INCLUDING CIRCUIT BREAKERS
 - C. PANELBOARDS INCLUDING CIRCUIT BREAKERS
 - D. RECEPTACLES AND COVER PLATES
 - E. DISCONNECTS INCLUDING FUSES OR MAGNETIC STARTERS
 - F. GROUNDING
 - G. WIRING
 - H. CONDUIT
 - I. FIRE ALARM SYSTEM
 - J. ACCESS CONTROL AND SECURITY SYSTEM COMPONENTS
 - K. DATA CABLING, TELEPHONE WIRING, AUDIO-VISUAL CABLING
 - L. JUNCTION BOXES AND ENCLOSURES

SYMBOL LEGEND

SYMBOL	DESCRIPTION
WP	WEATHER PROOF
GFci	GROUND FAULT CIRCUIT INTERRUPTER
⊖	DUPLEX CONVENIENCE OUTLET OR ISOLATED GROUND DUPLEX OUTLET. UP 18" TO CENTER OF RECEPTACLE OR AS INDICATED.
\$	SINGLE POLE WALL SWITCH. FLUSH MOUNTED UP 44" UNLESS OTHERWISE INDICATED
▬	FLANGED OR SURFACE MOUNTED FLUORESCENT FIXTURE AND OUTLET. TYPE AS INDICATED IN FIXTURE SCHEDULE.
⊞	LIGHT POLE. TYPE AS INDICATED IN FIXTURE SCHEDULE
⊞	JUNCTION BOX.
⊞	TRANSFORMER AS NOTED.
⊞	SPECIAL CABINET AS NOTED.
■	PANELBOARD. SEE PANEL SCHEDULE FOR CHARACTERISTICS.
□	SAFETY SWITCH, PROVIDED AND INSTALLED UNDER DIV. 16. TO HAVE POLES AND RATING REQUIRED, TO BE MOUNTED IN NEMA 3R IF INSTALLED OUTDOORS.
—	BRANCH CIRCUIT IN WALLS OR CEILING.
x-x	HOME RUN TO PANEL WITH BRANCH CIRCUIT NUMBERS INDICATED. THE MARKS REPRESENT NEUTRAL, HOT, SWITCH LEG, AND GROUND CONDUCTORS, RESPECTIVELY. CONDUITS WITH NO TIC MARKS SHALL BE: "A HOT AND NEUTRAL", "A HOT AND SWITCH LEG", "A NEUTRAL AND SWITCH LEG", OR "HOT, NEUTRAL, AND GROUND OR ISOLATED GROUND", AS APPLICABLE.

NOTE: SOME SYMBOLS SHOWN MAY NOT BE USED ON THIS PROJECT.

UTILITY LOCATOR SERVICES

EL PASO ELECTRIC COMPANY	(915) 543-5720
EL PASO ENERGY CORPORATION	(915) 496-5244
EL PASO WATER UTILITIES	(915) 594-5500
MCI SURVEILLANCE	(800) MCI-WORK
TIME WARNER COMMUNICATIONS	(915) 772-1123
TEXAS GAS SERVICE	(915) 680-7200
SBC	(800) 545-6005
AT&T	(800) 351-3788
U.S. SPRINT TELECOMM	(800) 521-0579

WARNING!
BEFORE YOU DIG
CALL 811
FOR FIELD LOCATING EXISTING UTILITIES

REFERENCES - BENCHMARKS
CITY MONUMENT AT POINT OF CURVE CENTERLINE RICH BEEM BLVD. 5084331E A DISTANCE OF 487.59 FEET FROM THE SOUTHERLY RIGHT OF WAY LINE OF MONTANA AVENUE.
ELEVATION: 4005.40 (CITY DATUM)

DATE	REVISIONS	BY

ENERGY CODE NOT REQUIRED. NO HABITABLE SPACES AND PLAYGROUND EXEMPT.

LIGHTING FIXTURE SCHEDULE

SYMBOL	MANUFACTURER NAME AND NUMBER	LAMPS	VOLTAGE	BALLAST	MOUNTING SURFACE	DESCRIPTION	NOTES
A	LUMARK 2V13-LD5-2-G-UNV-LB40-C01-U	16W LED	120	NA	SURFACE	2" WRAP, 2000 LUMEN GREENGATEOSW-P-1001-MV-W OCC SENSOR	
OL1	LUMARK PRV-XL-C75-D-UNV-T5-SA-BZ	176W LED	208	NA	30' POLE	AREA LIGHT, 28129 LUMEN, TYPE 5 WITH ACUITY REN127 NM1 0 PHOTOCONTROL	
POLE	TRADITIONAL CONCRETE		DI30X-TC-PG-2Y		30' POLE	DIRECT BURY CONCRETE POLE	

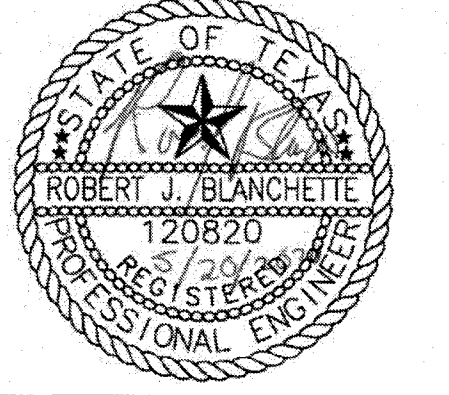
NOTES:
1. LIGHT FIXTURES SHALL BE AS SPECIFIED AND NO SUBSTITUTIONS WILL BE ALLOWED UNLESS PRIOR APPROVED PER SPECIFICATIONS.
2. REFER TO PLAN FOR TYPES AND QUANTITIES USED. ALL TYPES LISTED ABOVE DO NOT NECESSARILY APPEAR ON PLAN.
3. UPON COMPLETION OF THE PROJECT THE CONTRACTOR IS TO PROVIDE LABOR TO ADJUST THE COMPLETE INTERIOR LIGHTING PER THE DIRECTION OF THE USER.

PANEL "M" SCHEDULE

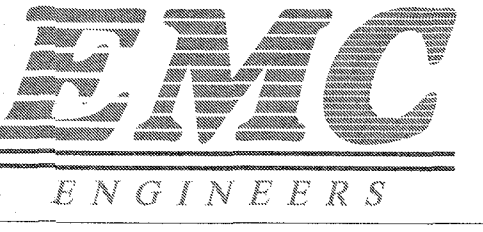
WIRE / CONDUIT	LOCATION: ROOM	LOAD DESCRIPTION	SERVICES:		240/120 VOLT AC			PHASE	1	2	3	WIRE TYPE:	NEC MAIN BUS:	TYPE:	NEC MAIN BUS:	COPPER	
			SI:	SI:	VA	AMP	LOAD IN VA										
#4 CU THWN WITH #8 CU GROUND IN 1" CONDUIT	PUMP	IRRIGATION CONTROLLER	3	M	6,000	6,240	PH "C"	VA	AMP	POLE	2		240	VA	AMP	80	
	PUMP HOUSE LIGHT	PUMP HOUSE LIGHT	7	C	500	500											
	RECEPTACLES	RECEPTACLES	9	R	80	360											
		CONNECTED VA			7,100	6,060											
		CONNECTED AMPS			59.2	50.5											
		NOTED OTHERWISE															
		DEMAND VA MAY VARY FROM CONNECTED VA			55.1	59.2											
		TOTAL DIVERSITY KVA			13.2												
		DEMAND VA			300	1.25											
		DEMAND VA			0	1.00											
		DEMAND VA			0	0.65											
		DEMAND VA			360	1.00											
		DEMAND VA			360	1.00											
		DEMAND VA			12,000	1.00											
		TOTAL			13,160												

APPROVED FOR CONSTRUCTION
Parks & Recreation Department

KARLA CHAVEZ
SIGNATURE
7/16/2020
DATE

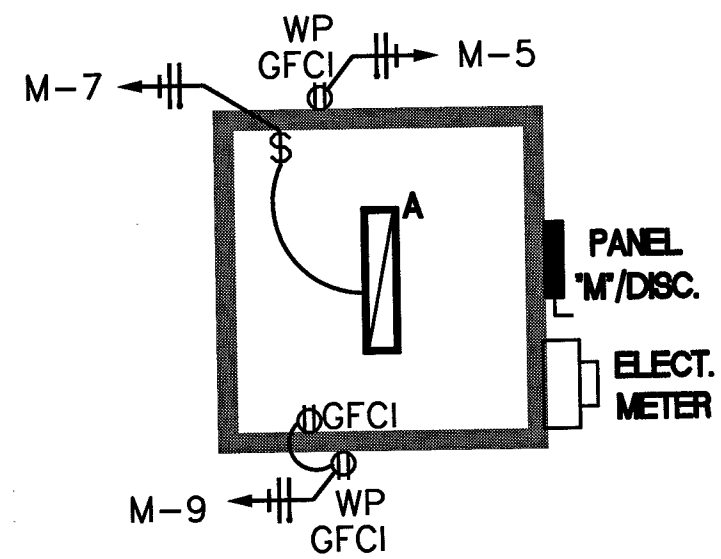


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EMC ENGINEERS
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EL PASO, TEXAS, 79903
PH: 915-781-2610
FAX: 915-781-2053
TEXAS FIRM REG. #72491
EMC PROJECT #2004036

ENGINEER'S SEAL
SCALE: Horizontal: Vertical: Contour Interval: V/A
DATE: APRIL, 2020
DESIGN BY: EMC
DRAWN BY: EAC
CHKD. BY: R.B.
APP. BY: R.B.
JOB NO. XXXX-XXX
PROJECT TITLE
HIDDEN VALLEY UNIT 2 PARK ILLUMINATION SUBDIVISION IMPROVEMENTS
SHEET TITLE
ELECTRICAL GENERAL NOTES, LEGEND, SCHEMATICS, AND SCHEDULES
SHEET NO.
E1.0



ENLARGED ELECTRICAL PUMP HOUSE PLAN

SCALE 1/8" = 1'-0"
8 4 2 0 4 8 12 16

ELECTRICAL GENERAL NOTES:

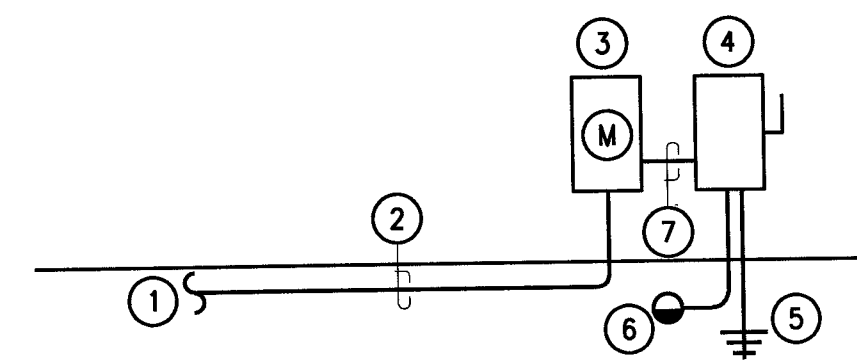
- 1 UNDERGROUND WIRING TO BE XHHW.

ELECTRICAL KEYED NOTES:

- 1 PAD MOUNT TRANSFORMER BY EPE.

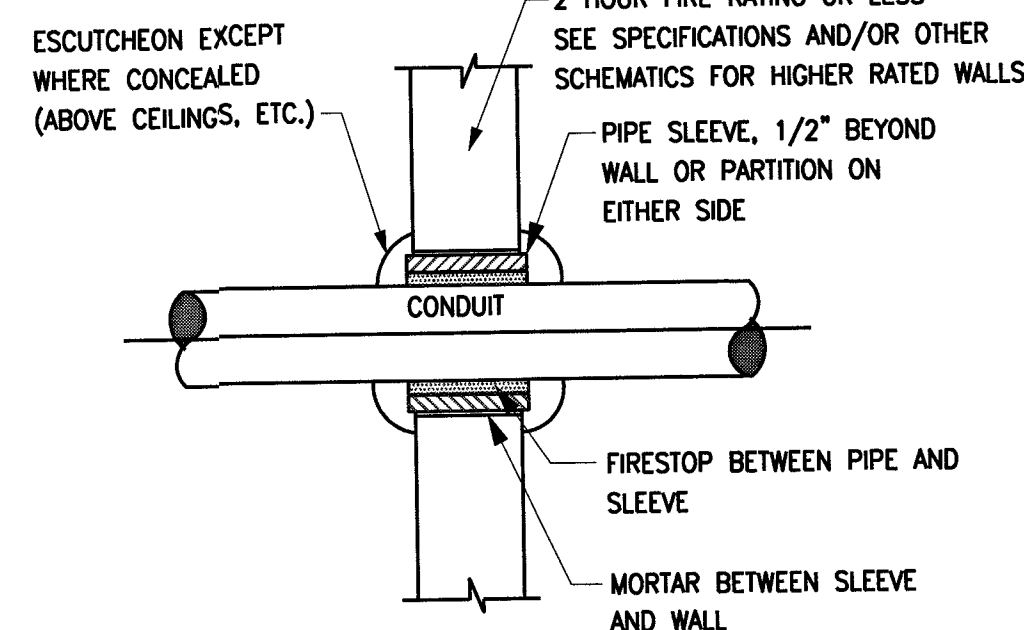
ELECTRICAL KEYED NOTES:

- 1 TO EPE SERVICE
- 2 #4/0 TRIPLEX FROM EPE
- 3 METER PER EPE REQUIREMENTS
- 4 100A 240/120V N3R PANEL
- 5 #8 CU TO 2 5/8"X8" COPPER CLAD GROUND RODS
- 6 #8 CU TO METALLIC COLD WATER PIPE
- 7 3 #2 CU THWN AND #8 CU GROUND IN 1-1/4" CONDUIT.



ELECTRICAL POWER RISER DIAGRAM

SCALE NONE



INTERIOR WALL CONDUIT PENETRATION

SCALE NONE

UTILITY LOCATOR SERVICES

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SBC	(800) 545-6005
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U.S. SPRINT TELECOMM	(800) 521-0579

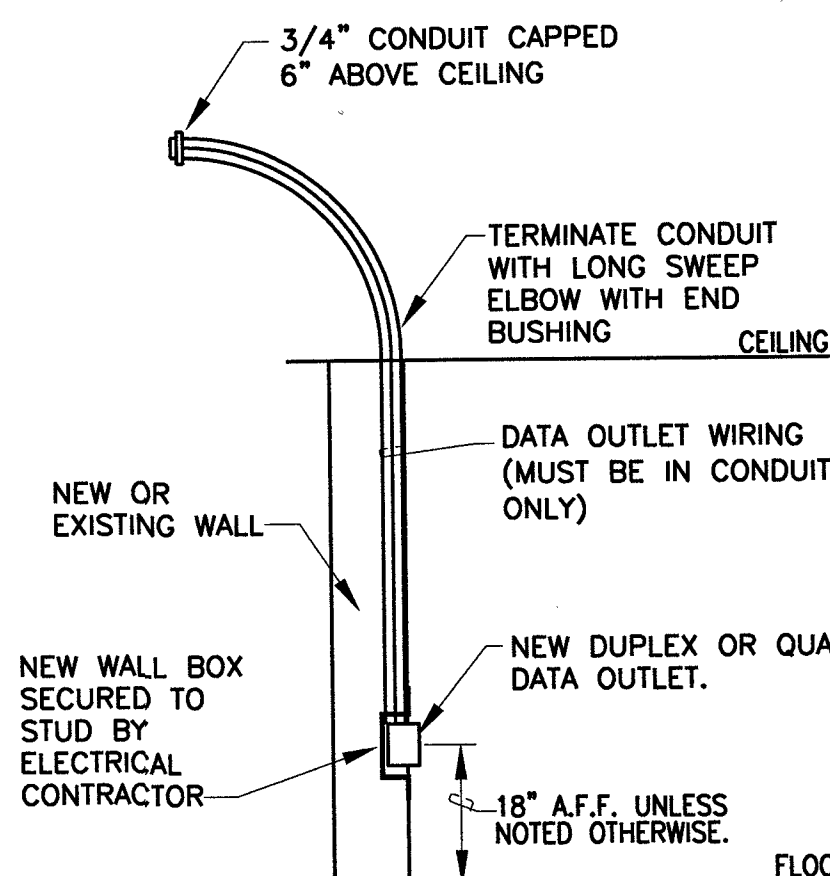
WARNING!
BEFORE YOU DIG
CALL 811

FOR FIELD LOCATING EXISTING UTILITIES

REFERENCES - BENCHMARKS

CITY MONUMENT AT FRONT OF CURVE, CENTERLINE RICH FROM THE SOUTHERLY RIGHT OF WAY LINE OF MONTANA AVENUE.
ELEVATION: 4005.40 (QTY DATUM)

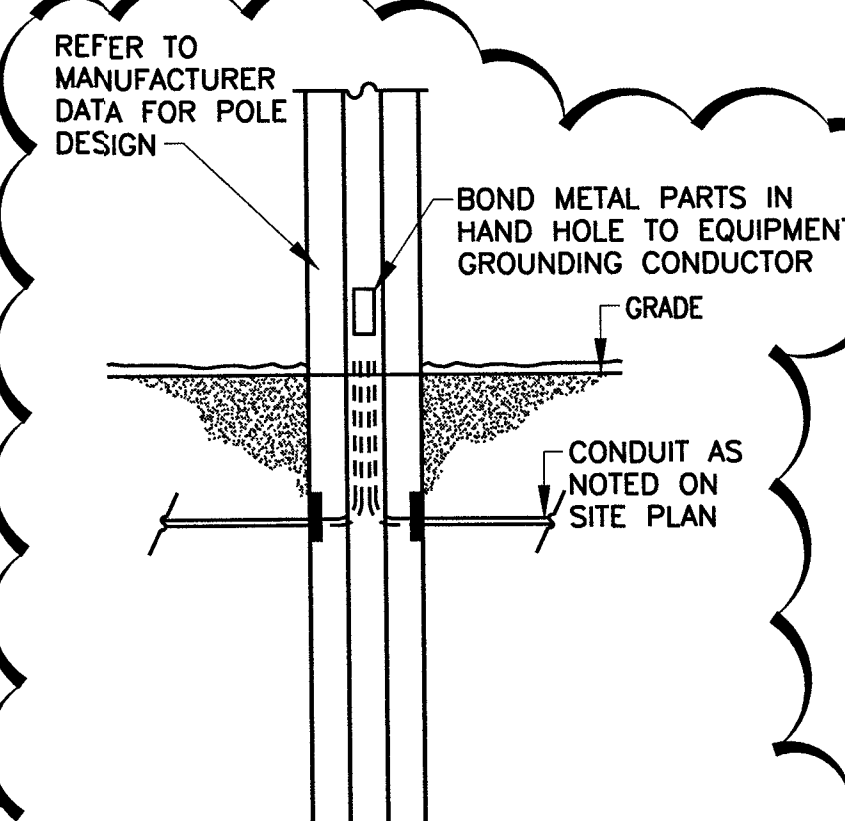
DATE	REVISIONS	BY	EMC
06/11/20	REV. 1	CITY COMMENTS	



- NOTE:**
- 1. ELECTRICAL CONTRACTOR TO INSTALL CONDUIT AND PULL STRING FOR CONTROLS. CONTRACTOR TO INSTALL WIRE DEVICES.

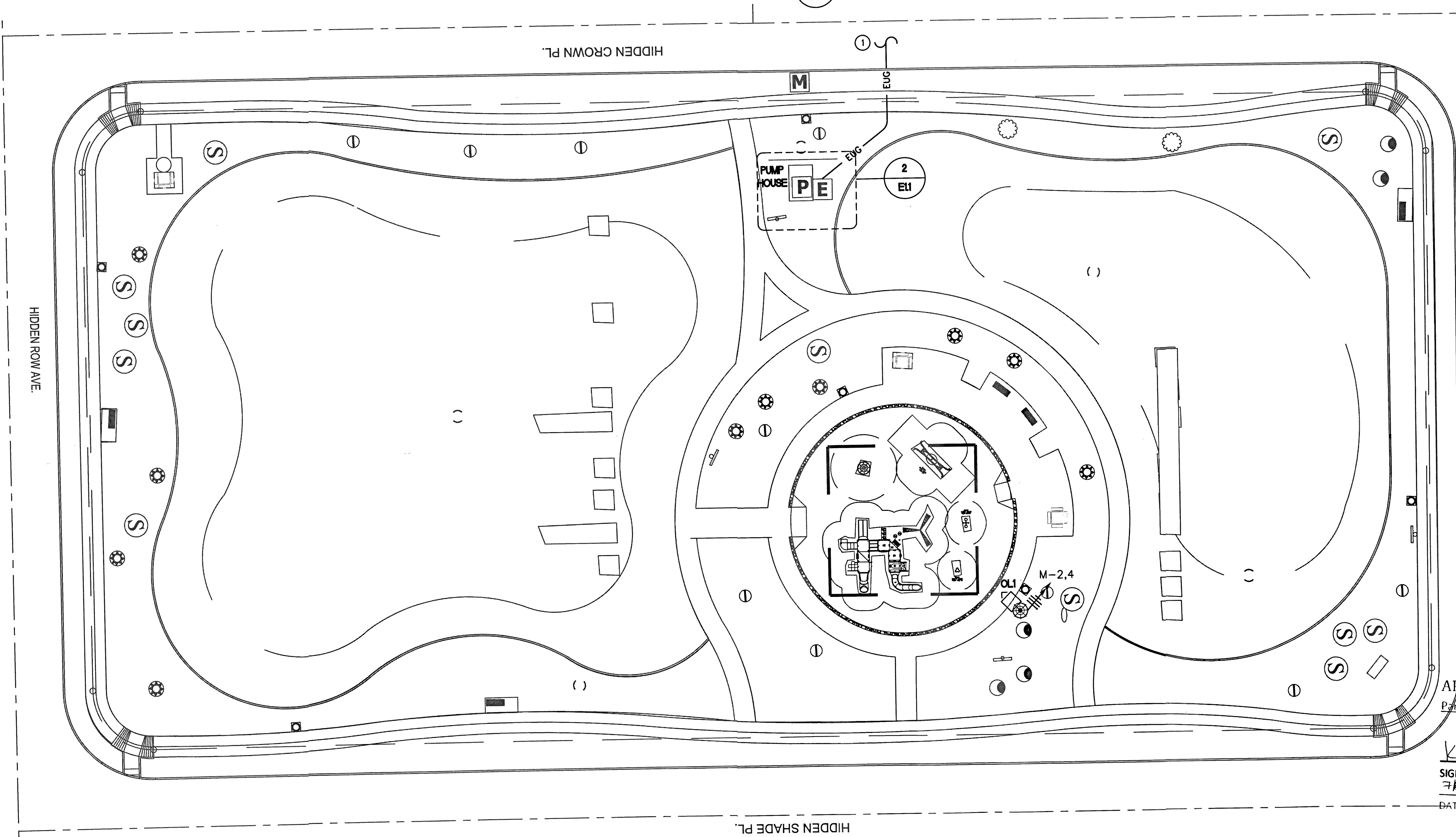
DUPLEX OR QUAD, DATA OUTLET MOUNTING SCHEMATIC

SCALE NONE



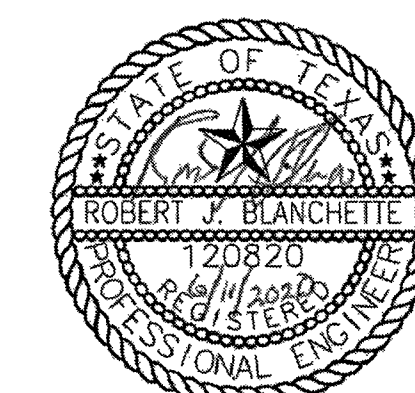
CONCRETE POLE SCHEMATIC

SCALE NONE



APPROVED FOR CONSTRUCTION
Parks & Recreation Department-Planning

KARLA CHAVEZ
SIGNATURE
7/20/20
DATE

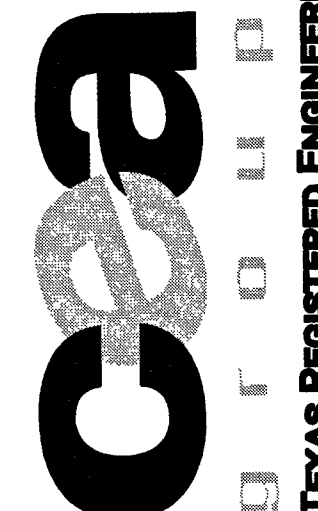


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ELECTRICAL SITE LIGHTING PLAN

SCALE 1" = 20'-0"
20 10 0 20 40

813 N. Kansas St.
Suite 300
El Paso, TX 79902
915.544.5232



ENGINEER'S SEAL

SCALE

Horizontal:	N/A
Vertical:	N/A
Content:	INTERIOR
DATE:	APRIL 2020
DESIGN BY:	EMC
DRAWN BY:	EMC
CHKD. BY:	R.B.
APPVD. BY:	R.B.
JOB NO.:	XXXX-XX

PROJECT TITLE
HIDDEN VALLEY UNIT 2 PARK ILLUMINATION SUBDIVISION IMPROVEMENTS

SHEET TITLE
ELECTRICAL SITE LIGHTING PLAN AND SCHEMATICS

SHEET NO.

E1.1

EMC ENGINEERS
2711 E. MISSOURI AVE. SUITE 310
EL PASO, TEXAS 79902
PH: 915-781-2039
FAX: 915-781-2055
TEXAS FIRM REG. #12491
EMC PROJECT #2004033