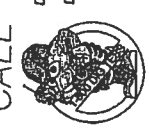


REVISION NO.	DATE	BY	DESCRIPTION

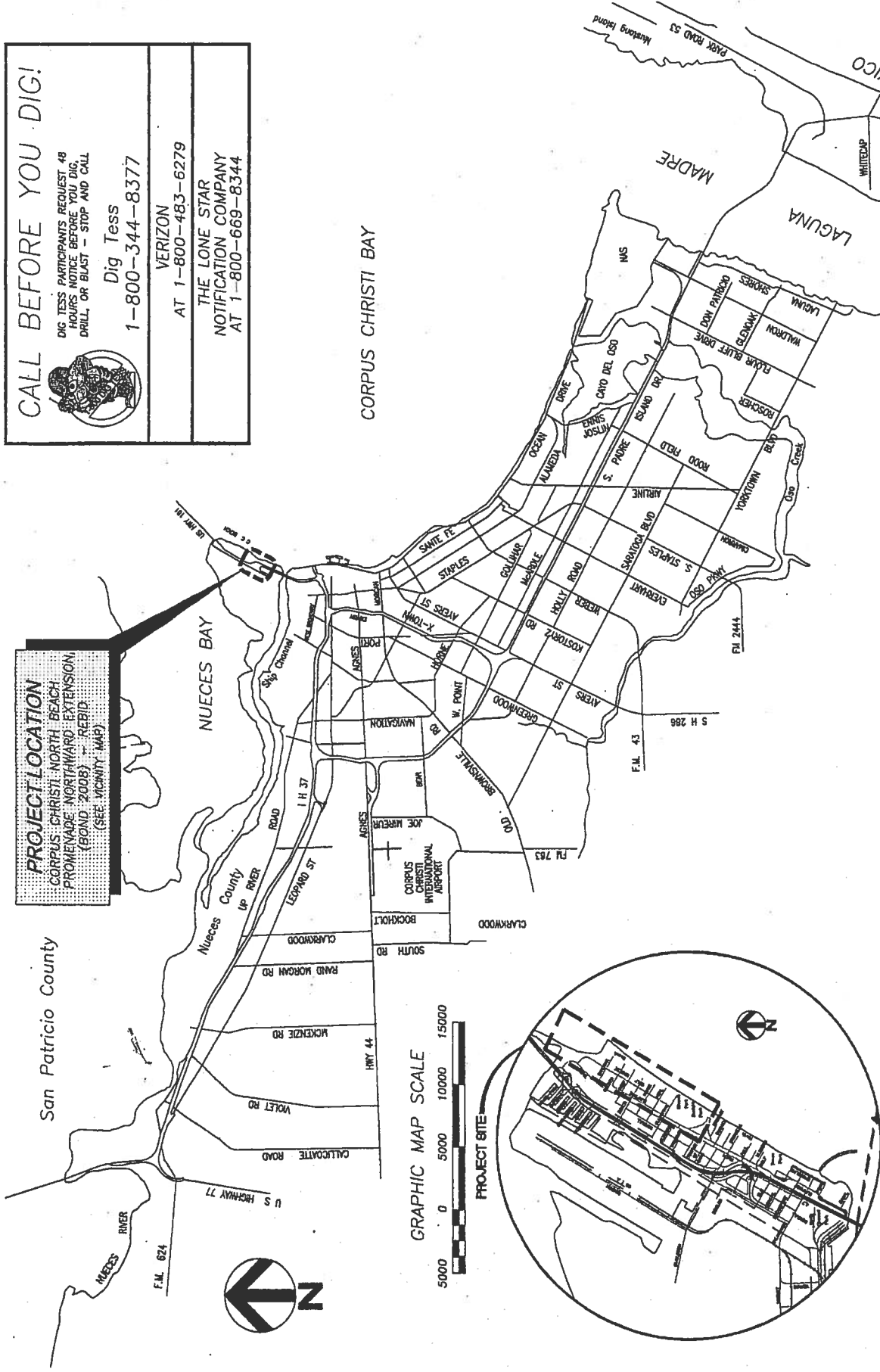
SHEET INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	ESTIMATED QUANTITIES, LEGENDS AND GENERAL NOTES
3	LOCATION MAP
4	PROMENADE CONCRETE PAVEMENT - SHEET 1 OF 7
5	PROMENADE CONCRETE PAVEMENT - SHEET 2 OF 7
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9	PROMENADE CONCRETE PAVEMENT - SHEET 6 OF 7
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11	PROMENADE DETAILS
12	LANDSCAPE & IRRIGATION PLAN - AREA 1
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16	LANDSCAPE & IRRIGATION PLAN - AREA 5
17	LANDSCAPE & IRRIGATION PLAN - AREA 6
18	LANDSCAPE NOTES & DETAILS
19	IRRIGATION NOTES & DETAILS
20	PAVILION AND ELEVATED BOARDWALK DETAILS
21	PAVILION AND ELEVATED BOARDWALK DETAILS

CALL BEFORE YOU DIG!

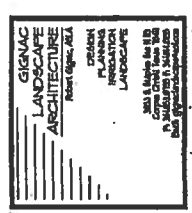
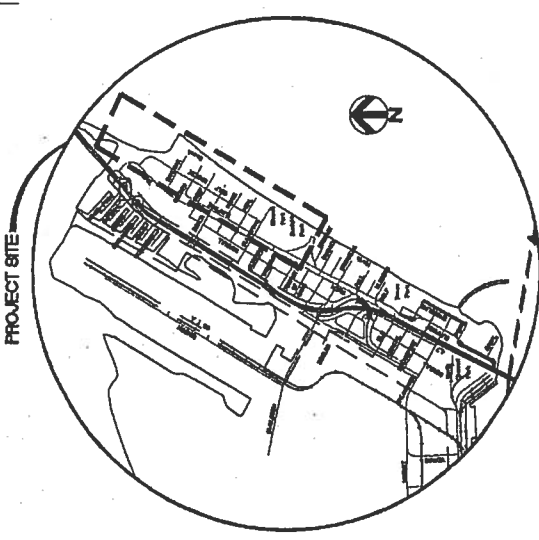
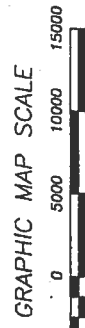

 DIG TESS PARTICIPANTS REQUEST 48 HOURS NOTICE BEFORE YOU DIG, DRILL, OR BLAST - STOP AND CALL
Dig TESS
 1-800-344-8377

VERIZON
 AT 1-800-483-6279
 THE LONE STAR
 NOTIFICATION COMPANY
 AT 1-800-669-8344



PLANS FOR
 (PARKS AND RECREATION)
**CORPUS CHRISTI NORTH BEACH
 PROMENADE NORTHWARD EXTENSION
 (BOND 2008) - REBID**

PROJECT LOCATION
 CORPUS CHRISTI NORTH BEACH
 PROMENADE NORTHWARD EXTENSION
 (BOND 2008) - REBID
 (SEE VICINITY MAP)




B. HAGAN ENGINEERING, LLC
 4337 Lido Oriole Dr.
 Corpus Christi, Texas 78413
 Ph. 361-774-7898
 FAX 361-774-7899
 WWW.BHAGAN.COM



WRIGHT ARCHITECTS
 810 ORIOLE
 CORPUS CHRISTI TX 78418
 PH 361.657.0182
 FX 361.657.0183
 CL 361.774.7899
 URBANO@FLASH.NET

PREPARED BY

APPROVED: 
 Director of Engineering Services
 Date: February 26, 2012

REVISION NO.	DATE	DESCRIPTION

REVISION NO.	DATE	DESCRIPTION

LEGEND

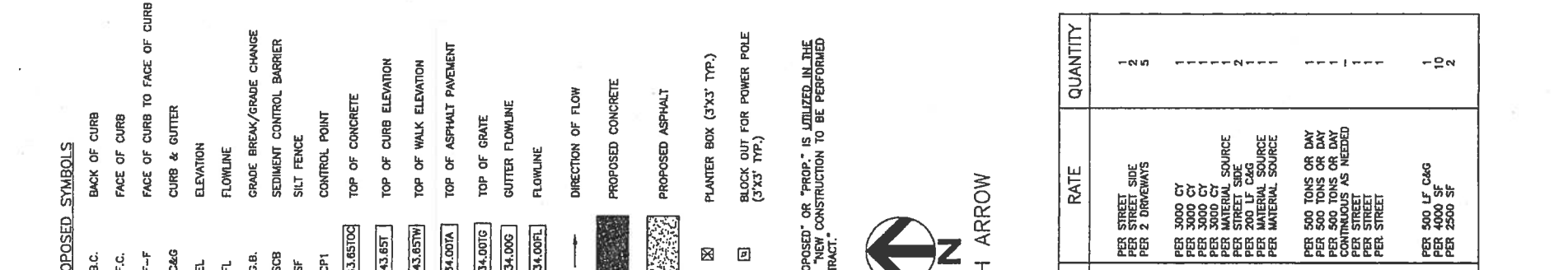
EXISTING SYMBOLS

GW-OPP POWER POLE & GUY WIRE
SN 4 SIGN POST
FH 4 FIRE HYDRANT
WV 4 WATER VALVE
GV 4 GAS VALVE
LP 0 LIGHT POLE
WM 0 WATER METER
TELEPHONE PEDESTAL
ELECTRIC RISER
EL 0 MANHOLE (STORM)
MH 0 MANHOLE (SANITARY)
PM 0 PARKING METER
SPRINKLER HEAD
TREE
FOUND IRON ROD

PROPOSED SYMBOLS

B.C. BACK OF CURB
F.C. FACE OF CURB
F-F FACE OF CURB TO FACE OF CURB
C&G CURB & GUTTER
EL ELEVATION
FL FLOWLINE
G.B. GRADE BREAK/GRADE CHANGE
SCB SEDIMENT CONTROL BARRIER
SF SILT FENCE
CP1 CONTROL POINT
A3.65TOC TOP OF CONCRETE
A3.65T TOP OF CURB ELEVATION
A3.65TW TOP OF WALK ELEVATION
A3.00TA TOP OF ASPHALT PAVEMENT
A3.00TG TOP OF GRATE
A3.00G GUTTER FLOWLINE
A3.00FL FLOWLINE

CONCRETE SIDEWALK
SANITARY SEWER LINE & SIZE
WATER LINE & SIZE
GAS LINE & SIZE
UNDERGROUND ELECTRICAL
STORM SEWER LINE & SIZE
OVERHEAD ELECTRICAL
PROPERTY LINE
RIGHT OF WAY
EDGE OF PAVEMENT



TESTING SCHEDULE

SOILS:	DESCRIPTION	RATE	QUANTITY
STANDARD PROCTOR - SUBGRADE (STREET)	PER STREET SIDE	PER 2 DRIVEWAYS	1
DENSITIES - SUBGRADE (DRIVEWAYS)	PER STREET SIDE	PER 2 DRIVEWAYS	5
FLEXIBLE BASE	PER 3000 CY	PER 3000 CY	1
SEMI ANALYSIS	PER 3000 CY	PER 3000 CY	1
ATTERBURG LIMITS	PER 3000 CY	PER 3000 CY	1
MODIFIED PROCTOR	PER MATERIAL SOURCE	PER MATERIAL SOURCE	1
CBR (STANDARD)	PER STREET SIDE	PER MATERIAL SOURCE	2
DENSITIES OF COMPACTED BASE (STREET)	PER 200 LF C&G	PER MATERIAL SOURCE	1
DENSITIES OF COMPACTED BASE (C&G)	PER MATERIAL SOURCE	PER MATERIAL SOURCE	1
WET BALL MILL TEST	PER MATERIAL SOURCE	PER MATERIAL SOURCE	1
TRAXIAL TEST	PER MATERIAL SOURCE	PER MATERIAL SOURCE	1
HOT-MIX ASPHALT CONCRETE (HMAC):	PER 500 TONS OR DAY	PER 500 TONS OR DAY	1
CONTRACTOR'S FIELD ANALYSIS	PER 500 TONS OR DAY	PER 500 TONS OR DAY	1
LAB DENSITY & STABILITY	PER 500 TONS OR DAY	PER 500 TONS OR DAY	1
THEORETICAL DENSITY (RICE METHOD)	PER 500 TONS OR DAY	PER 500 TONS OR DAY	1
TEMPERATURE - DURING LAY-DOWN	PER STREET	CONTINUOUS AS NEEDED	1
THICKNESS - IN PLACE (CORE)	PER STREET	PER STREET	1
% AIR VOIDS - IN PLACE (CORE)	PER STREET	PER STREET	1
% THEORETICAL DENSITY - IN PLACE (CORE)	PER STREET	PER STREET	1
CONCRETE:	PER 500 LF C&G	PER 500 LF C&G	1
(UNCONFINED COMPRESSION, 7, 14, & 28 DAY)	PER 4000 SF	PER 4000 SF	10
CURB & GUTTER	PER 2500 SF	PER 2500 SF	2
SIDEWALKS AND CURB RAMPS	PER 2500 SF	PER 2500 SF	2
DRIVEWAYS	PER 2500 SF	PER 2500 SF	2

NOTE: WHERE THE WORD "PROPOSED" OR "PROP." IS UTILIZED IN THE PLANS, IT SHALL MEAN "NEW CONSTRUCTION TO BE PERFORMED AS PART OF THIS CONTRACT."

NORTH ARROW

ITEM	DESCRIPTION	UNIT	QUANTITY
A-1	CIVIL IMPROVEMENTS	SF	41,000
A-2	4" Thick, 10' Wide Concrete Promenade Trail, complete in place, per cubic yards	EA	30
A-3	6" diameter treated wood bollards, 8'0" (8' deep to ground)	EA	27
A-4	Blair Plant, 1 gallon	EA	13
A-5	Breath Vials, 1 gallon	EA	28
A-6	Yucca, 4'-6" H.	EA	49
A-7	Stavella, 2 gallon	EA	7
A-8	Mexican Fan Palm, 7 TRK, F.	EA	211
A-9	Railroad Vireo, 1 gallon	EA	42
A-10	Planting Mix	CY	21
A-11	Sharp Clasp Natural Edge	LS	1
A-12	Top Dressing, 1/2" Size, 100 lbs Bag	CY	6
A-13	Top Dressing, 1/4" Size, 100 lbs Bag	CY	6
A-14	Top Dressing, 1/8" Size, 100 lbs Bag	CY	6
A-15	Top Dressing, 1/4" Size, 100 lbs Bag	CY	6
A-16	Landscaping Fabric, White	SF	2105
A-17	Vertical Timbers 6x6" with 2x6" Cap, Fibre Fabric and Hardware	LS	1
A-18	Subsurface Drip, 50', 1 GPH	LF	1200
A-19	Irrigation Valves, Line Size	EA	7
A-20	Battery Operated Valve, 1" W/Fiber & Pressure Reg.	EA	4
A-21	1/2" x 1/4" x 1/4" Tee, 1/2" x 1/4" x 1/4"	LF	60
A-22	1/2" x 1/4" x 1/4" Tee, 1/2" x 1/4" x 1/4"	EA	3
A-23	1/2" x 1/4" x 1/4" Tee, 1/2" x 1/4" x 1/4"	EA	3
A-24	2" x 4" Irrigation Sleeve, PVC 80# 40	LF	116
A-25	Testing Machine	LS	1
A-26	Pressure Vacuum Breaker 1" W/F 80# 40	EA	3
A-27	Supply Line, PVC 40, 1", 12' L, 2"	LF	3400
A-28	3" North Landscape & Irrigation Mainline	LS	1
A-29	Concrete Benchtop	EA	7
A-30	Drinking Fountain	EA	2
A-31	Envirolite Round Enclosure Purifier	EA	1
A-32	Envirolite Round Enclosure Purifier	SF	2100
A-33	Envirolite Round Enclosure Purifier	EA	3
A-34	Rain Sensor, Composites in Place	EA	3
A-35	Irrigation Meter, Fernrol & Faso	EA	3
A-36	Mobile Mat	EA	3
A-37	Unmanned Aerial Vehicle	LS	1

ITEM	DESCRIPTION	UNIT	QUANTITY
A-1	CIVIL IMPROVEMENTS	SF	41,000
A-2	4" Thick, 10' Wide Concrete Promenade Trail, complete in place, per cubic yards	EA	30
A-3	6" diameter treated wood bollards, 8'0" (8' deep to ground)	EA	27
A-4	Blair Plant, 1 gallon	EA	13
A-5	Breath Vials, 1 gallon	EA	28
A-6	Yucca, 4'-6" H.	EA	49
A-7	Stavella, 2 gallon	EA	7
A-8	Mexican Fan Palm, 7 TRK, F.	EA	211
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A-22	1/2" x 1/4" x 1/4" Tee, 1/2" x 1/4" x 1/4"	EA	3
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A-29	Concrete Benchtop	EA	7
A-30	Drinking Fountain	EA	2
A-31	Envirolite Round Enclosure Purifier	EA	1
A-32	Envirolite Round Enclosure Purifier	SF	2100
A-33	Envirolite Round Enclosure Purifier	EA	3
A-34	Rain Sensor, Composites in Place	EA	3
A-35	Irrigation Meter, Fernrol & Faso	EA	3
A-36	Mobile Mat	EA	3
A-37	Unmanned Aerial Vehicle	LS	1

ITEM	DESCRIPTION	UNIT	QUANTITY
A-1	CIVIL IMPROVEMENTS	SF	41,000
A-2	4" Thick, 10' Wide Concrete Promenade Trail, complete in place, per cubic yards	EA	30
A-3	6" diameter treated wood bollards, 8'0" (8' deep to ground)	EA	27
A-4	Blair Plant, 1 gallon	EA	13
A-5	Breath Vials, 1 gallon	EA	28
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A-35	Irrigation Meter, Fernrol & Faso	EA	3
A-36	Mobile Mat	EA	3
A-37	Unmanned Aerial Vehicle	LS	1

GENERAL NOTES

1. **SIDEWALKS AND DRIVEWAYS**

A. EXISTING DRIVEWAYS, SIDEWALKS, CURB, GUTTER, STORM SEWER AND OLD STRUCTURES SHALL BE REMOVED AS REQUIRED TO CONSTRUCT NEW IMPROVEMENTS.

B. CONCRETE PLACEMENT SHALL STOP AT EXPANSION JOINTS IN SIDEWALKS, OR AS DIRECTED BY THE ENGINEER.

C. CONTRACTOR TO PROVIDE SIDEWALK BLOCKOUTS FOR PLANTERS AND POWER POLES AS SHOWN ON PLANS.

D. WHERE PROPOSED CONCRETE TIES INTO EXISTING CONCRETE CONTRACTOR SHALL PLACE AN EXPANSION JOINT WITH DOWELS.

E. SIDEWALK REINFORCEMENT SHALL BE #4 BARS AT 12" O.C.E.W. AT MID-DEPTH.

F. ALL CONCRETE TO BE CLASS "A", 3,000 P.S.I., ALL STEEL, GRADE 60, FY= 60,000 P.S.I.

2. **UTILITIES**

A. WATERLINE, SANITARY SEWER, GAS AND STORM SEWER LINES SHOWN ON PLANS ARE FROM INFORMATION OF RECORD.

B. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT EXISTING UTILITIES. ALL PIPES, UTILITIES, OR OTHER FACILITIES DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED TO THE CITY'S SATISFACTION, WITH NO SEPARATE PAYMENT.

C. ALL OPEN EXCAVATION SHALL BE ENCLOSED WITH ORANGE SAFETY FENCE AND BARRIERS.

D. SEE IRRIGATION PLAN FOR SIZE OF IRRIGATION LINES & SLEEVING.

3. **MISCELLANEOUS**

A. CONCRETE SHALL BE SAW CUT WHERE AN EXISTING CONCRETE STRUCTURE IS TO BE PARTIALLY REMOVED. REMOVAL SHALL BE CARRIED AT LEAST 2 FT. BELOW THE PERMANENT GRADE LINE AND NEATLY SQUARED OFF.

B. PRIMING AND HOT-MIX PLACING OPERATIONS SHALL NOT BE CONDUCTED ON DAYS FOR WHICH AN OZONE ADVISORY HAS BEEN ISSUED, EXCEPT FOR REPAIRS.

C. ALL WORK SHALL BE PERFORMED DURING DAYLIGHT HOURS.

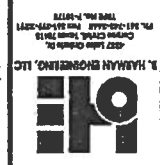
D. THE STORM WATER POLLUTION PREVENTION PLAN SHALL BE AS SHOWN IN THE PLANS AND DETAILS.

E. THE AREA BEHIND THE SIDEWALK SHALL BE GRADED WITH TOP SOIL THAT IS FREE OF DEBRIS, BASE, ASPHALT, AND CONCRETE (SUBSIDIARY TO THE APPLICABLE BID ITEMS)

4. **LANDSCAPING**

A. TREE PLANTERS SHALL HAVE 4" OF WASHED GRAVEL ON A DEWITT PRO-5 DRAINAGE FABRIC. GRAVEL TO BE 3/4" TO 1" IN SIZE. TOP OF GRAVEL TO BE FLUSH WITH TOP OF WALK. IF LANDSCAPING ALTERNATE IS AWARDED, GRAVEL AND FABRIC WILL NOT BE REQUIRED.

CONSULTANT'S SHEET
PROJECT NO. 09-34002



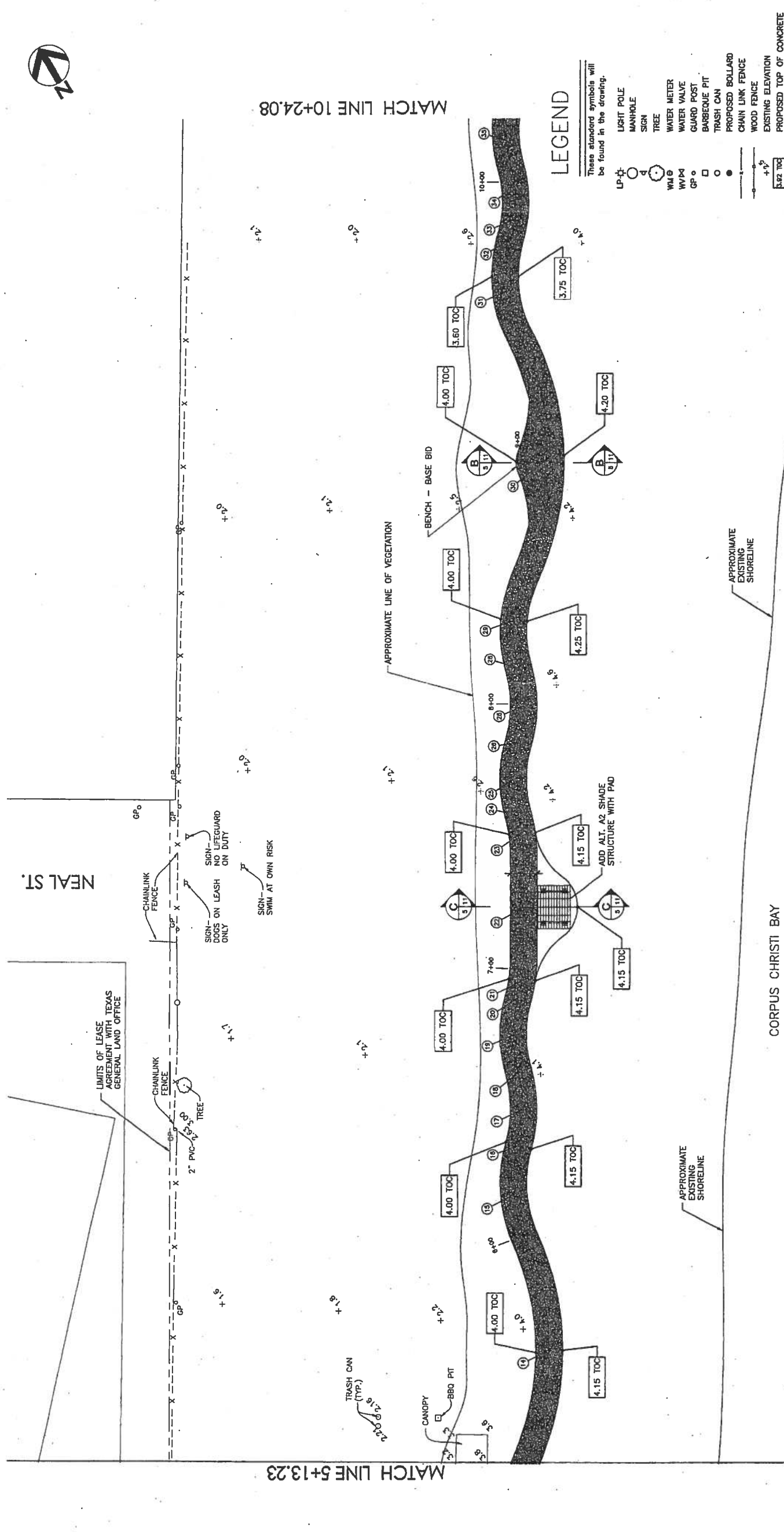
WRIGHT ARCHITECTS
910 ORKLE
CORPUS CHRISTI TX 78418
CORPUS CHRISTI TX 78418
PH 361.867.0183
FX 361.714.7889
URBANO@FLASHNET

Department of Engineering Services
CITY of CORPUS CHRISTI TEXAS



**CORPUS CHRISTI NORTH BEACH
PROMENADE NORTHWARD EXTENSION
(BOND 2008) [REBID]**
PROMENADE CONCRETE PAVEMENT
SHEET 2 OF 7

REVISION NO. DATE BY DESCRIPTION
SHEET 5 of 21
RECORD DRAWING NO. CP-183
CITY PROJECT # 3593



LEGEND

- These standard symbols will be found in the drawing.
- LP: LIGHT POLE
 - MANHOLE
 - SIGN
 - TREE
 - WM: WATER METER
 - WV: WATER VALVE
 - WP: WATER POST
 - GP: GUARD POST
 - BB: BARBEQUE PIT
 - TC: TRASH CAN
 - BL: PROPOSED BOLLARD
 - CL: CHAIN LINK FENCE
 - WF: WOOD FENCE
 - EE: EXISTING ELEVATION
 - PE: PROPOSED TOP OF CONCRETE

POINT NO.	LINE/CURVE DATA	STATION	NORTHING	EASTING	EXISTING ELEVATION	PROPOSED ELEVATION
P.C.	DELTA: 15°40'01" RADIUS: 47.89' LENGTH: 14.50' TANGENT: 6.59'	9+792.28	17,191,491.03	1,345,558.13	-	-
P.T./P.C.	DELTA: 16°33'05" RADIUS: 50.00' LENGTH: 14.50' TANGENT: 7.45'	9+992.37	17,191,501.21	1,345,566.29	-	-
P.T./P.C.	DELTA: 16°22'13" RADIUS: 50.00' LENGTH: 16.50' TANGENT: 8.53'	10+717.17	17,191,514.88	1,345,572.02	-	-
P.T.	DELTA: 16°22'13" RADIUS: 50.00' LENGTH: 16.50' TANGENT: 8.53'	10+242.07	17,191,509.94	1,345,579.37	-	-

POINT NO.	LINE/CURVE DATA	STATION	NORTHING	EASTING	EXISTING ELEVATION	PROPOSED ELEVATION
P.C.	DELTA: 30°00'00" RADIUS: 50.00' LENGTH: 13.40' TANGENT: 13.40'	7+886.19	17,191,328.03	1,345,463.83	-	-
P.T.	DELTA: 30°00'00" RADIUS: 50.00' LENGTH: 13.40' TANGENT: 13.40'	8+123.77	17,191,350.97	1,345,477.25	-	-
P.C.	DELTA: 30°00'00" RADIUS: 50.00' LENGTH: 13.40' TANGENT: 13.40'	8+14.08	17,191,352.68	1,345,477.72	-	-
P.T./P.C.	DELTA: 37°27'01" RADIUS: 50.00' LENGTH: 16.50' TANGENT: 8.53'	8+48.77	17,191,380.08	1,345,497.75	-	-
P.T./P.C.	DELTA: 47°42'00" RADIUS: 50.00' LENGTH: 16.50' TANGENT: 8.53'	9+403.31	17,191,456.81	1,345,541.59	-	-
P.T.	DELTA: 47°42'00" RADIUS: 50.00' LENGTH: 16.50' TANGENT: 8.53'	9+775.77	17,191,489.85	1,345,556.80	-	-

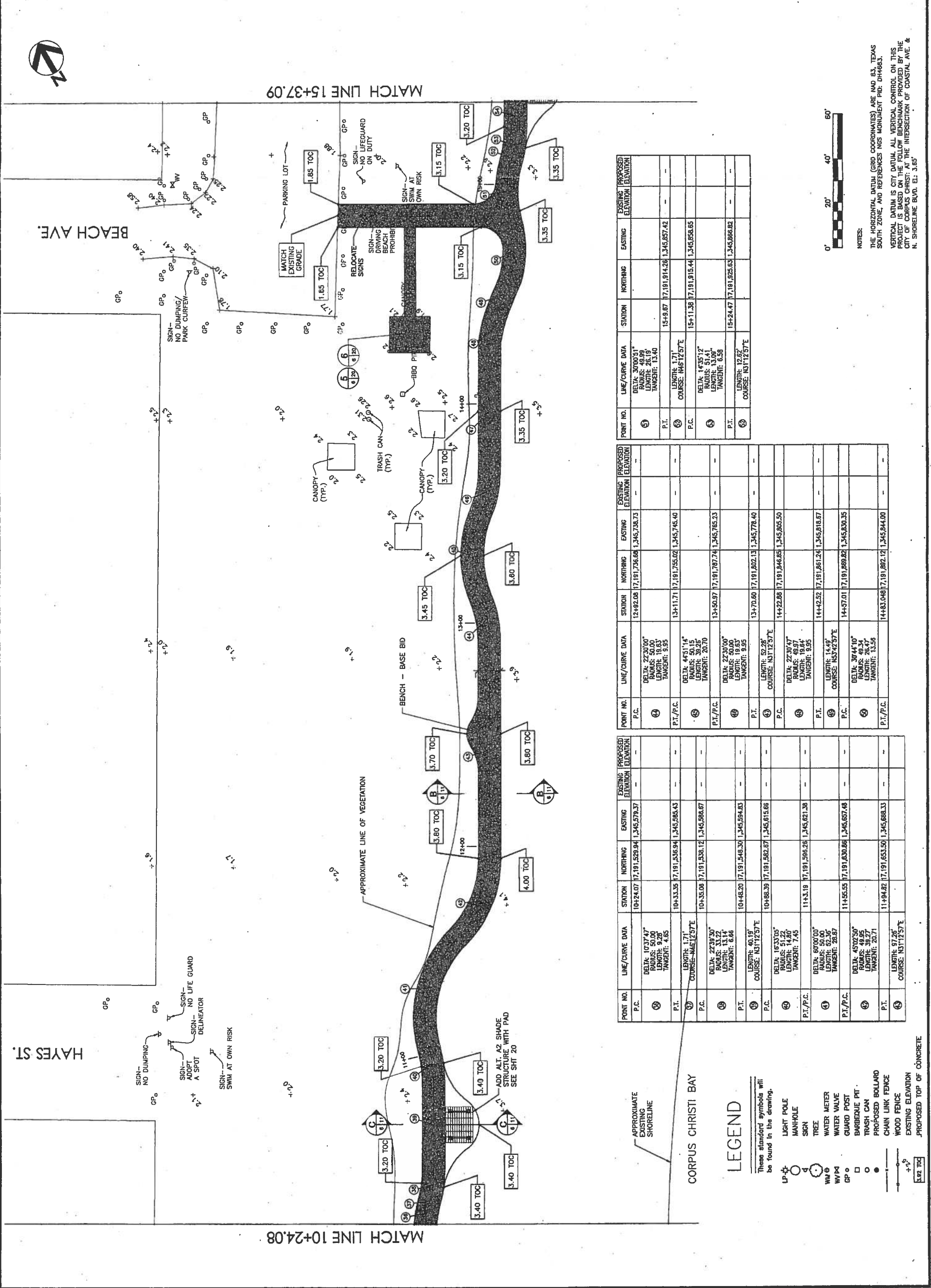
POINT NO.	LINE/CURVE DATA	STATION	NORTHING	EASTING	EXISTING ELEVATION	PROPOSED ELEVATION
P.C.	DELTA: 17°35'27" RADIUS: 10.99' LENGTH: 10.99' TANGENT: 5.52'	6+992.22	17,191,247.37	1,345,414.47	-	-
P.T.	DELTA: 17°35'27" RADIUS: 10.99' LENGTH: 10.99' TANGENT: 5.52'	7+121.21	17,191,255.78	1,345,421.51	-	-
P.C.	DELTA: 17°35'27" RADIUS: 10.99' LENGTH: 10.99' TANGENT: 5.52'	7+45.60	17,191,253.75	1,345,444.51	-	-
P.T./P.C.	DELTA: 17°35'27" RADIUS: 10.99' LENGTH: 10.99' TANGENT: 5.52'	7+58.59	17,191,303.86	1,345,448.71	-	-
P.T.	DELTA: 17°35'27" RADIUS: 10.99' LENGTH: 10.99' TANGENT: 5.52'	7+58.30	17,191,305.51	1,345,448.19	-	-
P.C.	DELTA: 30°00'00" RADIUS: 50.00' LENGTH: 13.40' TANGENT: 13.40'	7+886.19	17,191,328.03	1,345,463.83	-	-
P.T.	DELTA: 30°00'00" RADIUS: 50.00' LENGTH: 13.40' TANGENT: 13.40'	7+884.48	17,191,327.85	1,345,462.80	-	-

POINT NO.	LINE/CURVE DATA	STATION	NORTHING	EASTING	EXISTING ELEVATION	PROPOSED ELEVATION
P.C.	DELTA: 48°42'52" RADIUS: 100.00' LENGTH: 65.27' TANGENT: 65.27'	5+132.23	17,191,088.17	1,345,327.09	-	-
P.T./P.C.	DELTA: 39°31'06" RADIUS: 50.00' LENGTH: 34.49' TANGENT: 17.96'	5+98.25	17,191,168.84	1,345,389.84	-	-
P.T.	DELTA: 39°31'06" RADIUS: 50.00' LENGTH: 34.49' TANGENT: 17.96'	6+32.74	17,191,199.10	1,345,384.70	-	-
P.C.	DELTA: 17°35'27" RADIUS: 10.99' LENGTH: 10.99' TANGENT: 5.52'	6+34.45	17,191,200.28	1,345,385.83	-	-
P.T.	DELTA: 17°35'27" RADIUS: 10.99' LENGTH: 10.99' TANGENT: 5.52'	6+60.63	17,191,222.42	1,345,389.35	-	-
P.C.	DELTA: 30°00'00" RADIUS: 50.00' LENGTH: 13.40' TANGENT: 13.40'	6+62.33	17,191,224.06	1,345,389.82	-	-
P.T.	DELTA: 30°00'00" RADIUS: 50.00' LENGTH: 13.40' TANGENT: 13.40'	6+88.51	17,191,246.19	1,345,413.24	-	-



NOTES:
THE HORIZONTAL DATUM (GRID COORDINATES) ARE NAD 83, TEXAS SOUTH ZONE, AND REFERENCES NGS MONUMENT PID: DHH4683.
VERTICAL DATUM IS CITY DATUM. ALL VERTICAL CONTROL ON THIS PROJECT SHALL BE REFERENCED TO THE BENCHMARK OF THE CITY OF CORPUS CHRISTI AT THE INTERSECTION OF CONSTITUTION AVE. & N. SHORELINE BLVD. EL: 3.65'

REVISION NO.	DESCRIPTION



POINT NO.	LINE/CURVE DATA	STATION	NORTHING	EASTING	EXISTING ELEVATION	PROPOSED ELEVATION
5	DELTA: 30703.1° RADIUS: 50.00' LENGTH: 26.19' TANGENT: 13.40'	15+9.87	17,191,914.26	1,345,857.42	-	-
P.T.	LENGTH: 1.71' COURSE: N45°12'57"E	15+11.58	17,191,915.44	1,345,858.65	-	-
P.C.	DELTA: 1°35'17" RADIUS: 50.00' LENGTH: 13.09' TANGENT: 6.58'	15+24.47	17,191,925.63	1,345,866.82	-	-
P.T.	LENGTH: 12.67' COURSE: N31°12'57"E	15+37.14	17,191,935.81	1,345,875.00	-	-

POINT NO.	LINE/CURVE DATA	STATION	NORTHING	EASTING	EXISTING ELEVATION	PROPOSED ELEVATION
P.C.	DELTA: 22°30'00" RADIUS: 50.00' LENGTH: 30.21' TANGENT: 9.95'	12+82.08	17,191,736.68	1,345,736.73	-	-
P.T./P.C.	DELTA: 4°51'14" RADIUS: 50.00' LENGTH: 30.21' TANGENT: 9.95'	13+11.71	17,191,755.02	1,345,745.40	-	-
P.T./P.C.	DELTA: 27°30'00" RADIUS: 50.00' LENGTH: 19.63' TANGENT: 8.95'	13+30.97	17,191,787.74	1,345,765.23	-	-
P.T.	LENGTH: 50.28' COURSE: N31°12'57"E	13+70.60	17,191,802.13	1,345,778.40	-	-
P.C.	DELTA: 27°30'00" RADIUS: 50.00' LENGTH: 19.64' TANGENT: 8.95'	14+22.88	17,191,846.85	1,345,805.50	-	-
P.T.	LENGTH: 14.48' COURSE: N37°42'57"E	14+42.52	17,191,861.24	1,345,818.67	-	-
P.C.	DELTA: 39°45'10" RADIUS: 50.00' LENGTH: 26.47' TANGENT: 13.56'	14+57.01	17,191,899.82	1,345,830.35	-	-
P.T./P.C.	LENGTH: 97.95' COURSE: N51°12'57"E	14+83.048	17,191,892.12	1,345,844.00	-	-

POINT NO.	LINE/CURVE DATA	STATION	NORTHING	EASTING	EXISTING ELEVATION	PROPOSED ELEVATION
P.C.	DELTA: 10°37'47" RADIUS: 50.00' LENGTH: 9.26' TANGENT: 4.85'	10+24.07	17,191,529.94	1,345,579.37	-	-
P.T.	LENGTH: 17.71' COURSE: N45°12'57"E	10+33.35	17,191,536.94	1,345,583.43	-	-
P.C.	DELTA: 22°30'20" RADIUS: 50.00' LENGTH: 13.14' TANGENT: 6.86'	10+35.08	17,191,538.12	1,345,586.67	-	-
P.T.	LENGTH: 40.19' COURSE: N51°12'57"E	10+48.20	17,191,548.30	1,345,594.83	-	-
P.C.	DELTA: 16°33'05" RADIUS: 51.22' LENGTH: 14.72' TANGENT: 7.45'	10+48.39	17,191,552.67	1,345,615.65	-	-
P.T./P.C.	DELTA: 60°00'00" RADIUS: 50.00' LENGTH: 20.87' TANGENT: 20.87'	11+3.19	17,191,596.26	1,345,621.38	-	-
P.T./P.C.	DELTA: 45°02'50" RADIUS: 50.00' LENGTH: 39.97' TANGENT: 20.71'	11+45.55	17,191,630.86	1,345,657.48	-	-
P.T.	LENGTH: 97.95' COURSE: N51°12'57"E	11+49.42	17,191,653.50	1,345,688.33	-	-

LEGEND

- These standard symbols will be found in the drawing.
- UP: LIGHT POLE
 - MANHOLE
 - SIGN
 - TREE
 - W/M: WATER METER
 - W/P: WATER VALVE
 - GP: GUARD POST
 - BARBEQUE PIT
 - TRASH CAN
 - PROPOSED BOLLARD
 - CHAIN LINK FENCE
 - WOOD FENCE
 - EXISTING ELEVATION
 - PROPOSED TOP OF CONCRETE



NOTES:
 THE HORIZONTAL DATUM (GRID COORDINATES) ARE NAD 83, TEXAS SOUTH ZONE, AND REFERENCES NGS MONUMENT PID: DH4663.
 VERTICAL DATUM IS CITY DATUM. ALL VERTICAL CONTROL ON THIS PROJECT IS BASED ON THE FOLLOWING BENCHMARK PROVIDED BY THE CITY OF CORPUS CHRISTI: AT THE INTERSECTION OF COASTAL AVE. & N. SHORELINE BLVD. E.L.: 3.65'

CONSULTANT'S SHEET
PROJECT NO. 09-34002



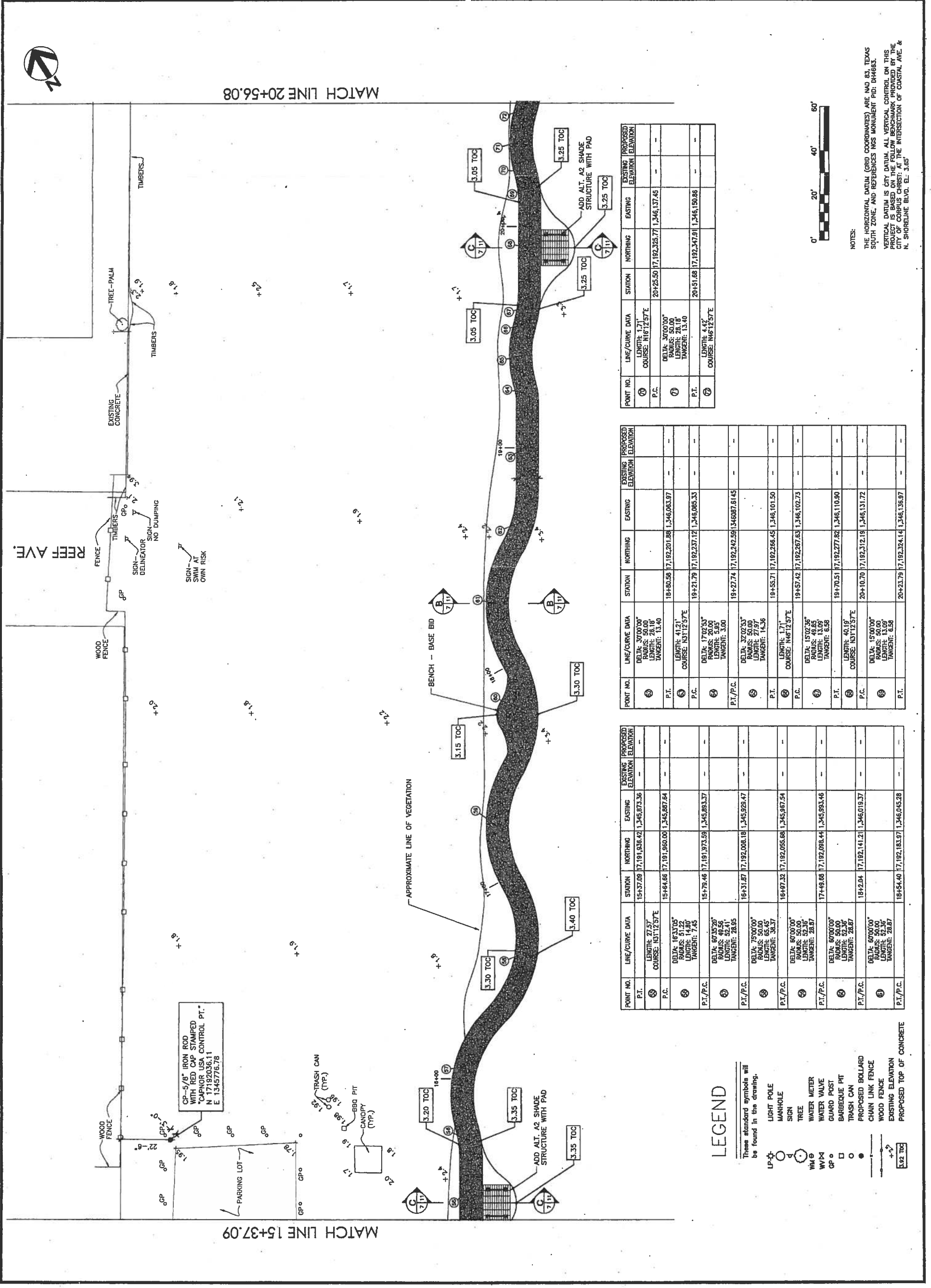
WRIGHT ARCHITECTS
810 OROLE
CORPUS CHRISTI TX 78416
PH 361.657.0182
FX 361.657.0183
CL 361.774.7698
URBAN@FLASH.NET

Department of Engineering Services
CITY of CORPUS CHRISTI TEXAS

CORPUS CHRISTI NORTH BEACH
PROMENADE NORTHWARD EXTENSION
(BOND 2008) [REBID]
PROMENADE CONCRETE PAVEMENT
SHEET 4 OF 7

SHEET 7 of 21
RECORD DRAWING NO.
CP-183
CITY PROJECT # 3393

REVISION NO.	DATE	DESCRIPTION



MATCH LINE 20+56.08

MATCH LINE 15+37.09

POINT NO.	LINE/CURVE DATA	STATION	NORTHING	EASTING	EXISTING ELEVATION	PROPOSED ELEVATION
60	DELTA: 171° LENGTH: 171' RADIUS: 171' TANGENT: 171'	20+25.50	17,192,325.77	1,346,137.45	-	-
P.C.						
61	DELTA: 307°00' RADIUS: 50.00 LENGTH: 28.18 TANGENT: 13.40	20+51.68	17,192,347.91	1,346,150.86	-	-
P.T.						

POINT NO.	LINE/CURVE DATA	STATION	NORTHING	EASTING	EXISTING ELEVATION	PROPOSED ELEVATION
52	DELTA: 307°00' RADIUS: 50.00 LENGTH: 28.18 TANGENT: 13.40	18+60.58	17,192,201.88	1,346,083.97	-	-
P.T.						
53	DELTA: 412° RADIUS: 171' LENGTH: 171' TANGENT: 171'	19+21.79	17,192,237.12	1,346,085.33	-	-
P.C.						
54	DELTA: 170°53' RADIUS: 20.00 LENGTH: 3.00 TANGENT: 3.00	19+27.74	17,192,242.59	1,346,087.81	-	-
P.T./P.C.						
55	DELTA: 320°53' RADIUS: 50.00 LENGTH: 28.18 TANGENT: 13.40	19+55.71	17,192,268.45	1,346,101.50	-	-
P.T.						
56	DELTA: 171° RADIUS: 171' LENGTH: 171' TANGENT: 171'	19+57.42	17,192,267.83	1,346,102.73	-	-
P.C.						
57	DELTA: 150°36' RADIUS: 13.00 LENGTH: 6.58 TANGENT: 6.58	19+70.51	17,192,277.82	1,346,110.90	-	-
P.T.						
58	DELTA: 43.15° RADIUS: 171' LENGTH: 171' TANGENT: 171'	20+10.70	17,192,312.19	1,346,131.72	-	-
P.C.						
59	DELTA: 150°00' RADIUS: 13.00 LENGTH: 6.58 TANGENT: 6.58	20+23.78	17,192,324.14	1,346,136.97	-	-
P.T.						

POINT NO.	LINE/CURVE DATA	STATION	NORTHING	EASTING	EXISTING ELEVATION	PROPOSED ELEVATION
P.T.		15+37.09	17,191,836.42	1,345,973.36	-	-
51	DELTA: 27.57° RADIUS: 50.00 LENGTH: 14.80 TANGENT: 7.45	15+64.66	17,191,860.00	1,345,987.64	-	-
P.C.						
52	DELTA: 163°30° RADIUS: 51.22 LENGTH: 14.80 TANGENT: 7.45	15+78.46	17,191,973.59	1,345,983.37	-	-
P.T./P.C.						
53	DELTA: 60°35'20" RADIUS: 49.56 LENGTH: 52.41 TANGENT: 28.95	16+31.87	17,192,008.19	1,345,929.47	-	-
P.T./P.C.						
54	DELTA: 70°00' RADIUS: 50.00 LENGTH: 65.45 TANGENT: 32.57	16+97.32	17,192,056.68	1,345,987.54	-	-
P.T./P.C.						
55	DELTA: 60°00' RADIUS: 50.00 LENGTH: 52.36 TANGENT: 28.97	17+49.68	17,192,088.44	1,345,993.46	-	-
P.T./P.C.						
56	DELTA: 60°00' RADIUS: 50.00 LENGTH: 52.36 TANGENT: 28.97	18+2.04	17,192,141.21	1,346,019.37	-	-
P.T./P.C.						
57	DELTA: 60°00' RADIUS: 50.00 LENGTH: 52.36 TANGENT: 28.97	18+54.40	17,192,183.57	1,346,045.28	-	-
P.T./P.C.						

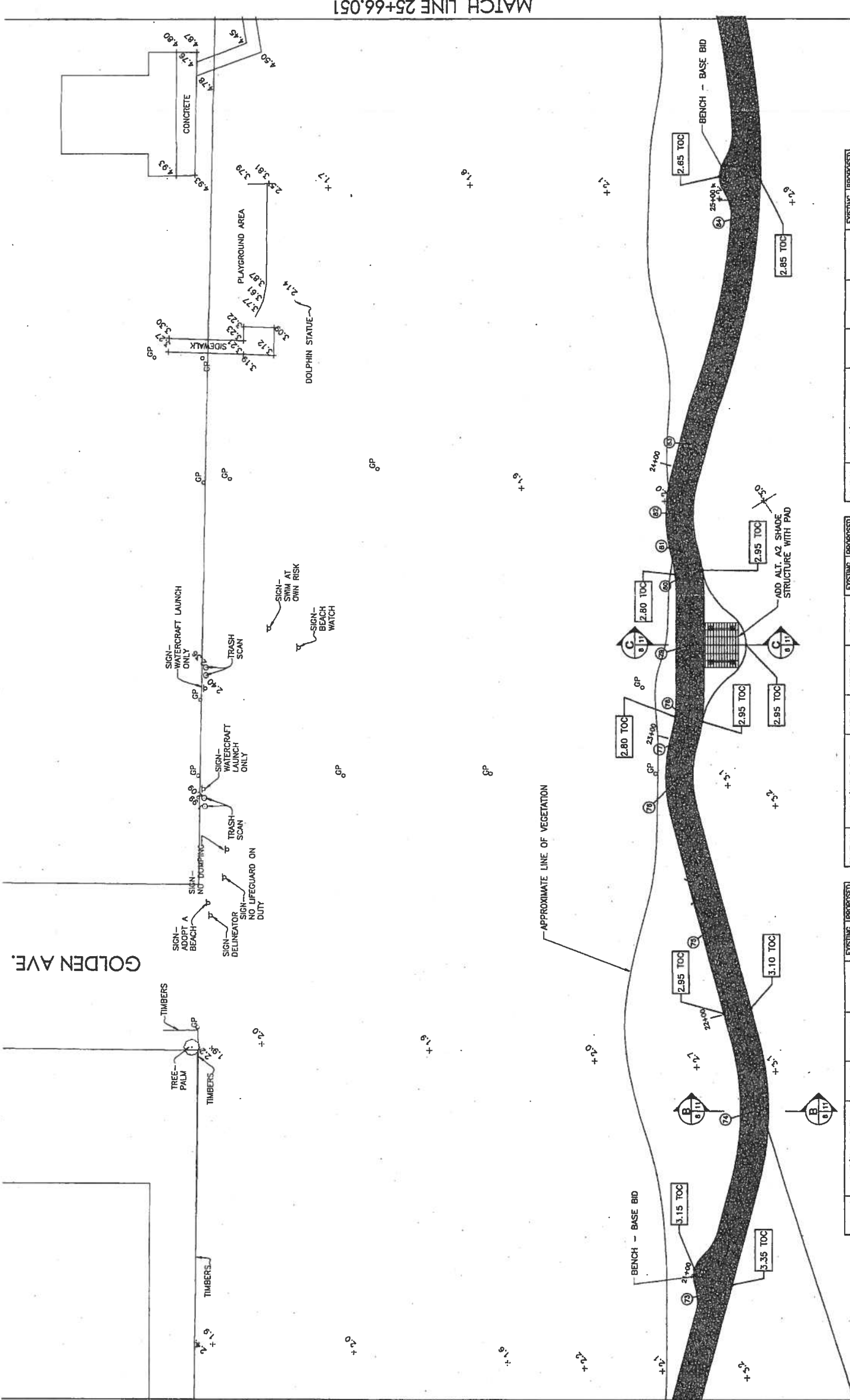
LEGEND

- These standard symbols will be found in the drawing.
- UP-○ LIGHT POLE
 - MANHOLE
 - TREE
 - WATER METER
 - WATER VALVE
 - GUARD POST
 - BARBEQUE PIT
 - TRASH CAN
 - PROPOSED BOLLARD
 - CHAIN LINK FENCE
 - WOOD FENCE
 - EXISTING ELEVATION
 - PROPOSED TOP OF CONCRETE



NOTES:
THE HORIZONTAL DATUM (GRID COORDINATES) ARE NAD 83, TEXAS SOUTH ZONE, AND REFERENCES NGS MONUMENT PID: DM8683. VERTICAL DATUM IS CITY DATUM. ALL VERTICAL CONTROL ON THIS PROJECT IS BASED ON THE FOLLOWING BENCHMARK PROVIDED BY THE CITY OF CORPUS CHRISTI: AT THE INTERSECTION OF COASTAL AVE. & N. SHORELINE BLVD. EL: 3.65'





POINT NO.	LINE/CURVE DATA	STATION	NORTHING	EASTING	EXISTING ELEVATION	PROPOSED ELEVATION
P.C.	DELTA: 3070'00" LENGTH: 26.19' TANGENT: 13.40'	23+70.21	17,192,814.24	1,346,312.24	-	-
P.T.	LENGTH: 25.98' COURSE: N46°15'21"E	23+96.40	17,192,835.38	1,346,325.68	-	-
P.C.	DELTA: 3232'24" LENGTH: 14.15' TANGENT: 74.08'	24+22.38	17,192,854.35	1,346,344.43	-	-
P.T.	LENGTH: 17.17' COURSE: N12°15'17"E	25+68.53	17,192,770.55	1,346,326.43	-	-

POINT NO.	LINE/CURVE DATA	STATION	NORTHING	EASTING	EXISTING ELEVATION	PROPOSED ELEVATION
P.C.	DELTA: 1458'43" LENGTH: 13.08' TANGENT: 6.58'	23+2.13	17,192,556.10	1,346,277.54	-	-
P.T.	LENGTH: 40.19' COURSE: N31°11'24"E	23+45.22	17,192,565.28	1,346,285.70	-	-
P.C.	DELTA: 1508'20" LENGTH: 13.08' TANGENT: 6.58'	23+85.41	17,192,600.86	1,346,306.91	-	-
P.T.	LENGTH: 13.71' COURSE: N12°15'17"E	23+99.50	17,192,612.60	1,346,311.76	-	-

POINT NO.	LINE/CURVE DATA	STATION	NORTHING	EASTING	EXISTING ELEVATION	PROPOSED ELEVATION
P.T.	LENGTH: 80.68' COURSE: N65°12'57"E	20+56.10	17,192,360.97	1,346,154.05	-	-
P.C.	DELTA: 3070'00" LENGTH: 26.19' TANGENT: 13.40'	21+36.78	17,192,406.79	1,346,212.30	-	-
P.T.	LENGTH: 85.10' COURSE: N16°12'57"E	21+88.14	17,192,451.05	1,346,239.13	-	-
P.C.	DELTA: 2959'58" LENGTH: 26.19' TANGENT: 13.40'	22+74.24	17,192,532.78	1,346,282.88	-	-
P.T.	LENGTH: 17.17' COURSE: N12°15'17"E	23+00.42	17,192,554.91	1,346,276.30	-	-

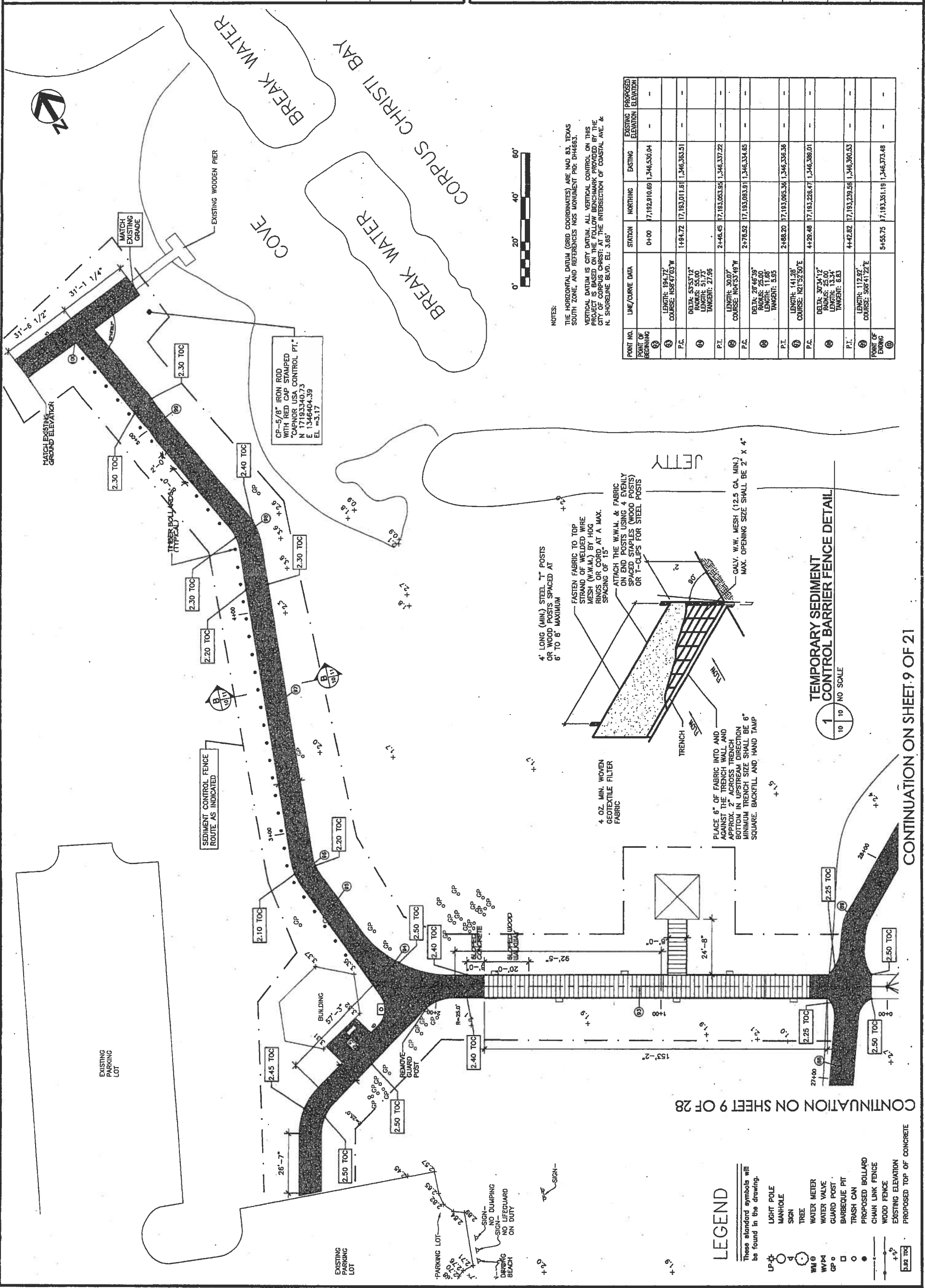
LEGEND

- These standard symbols will be found in the drawing.
- LP: LIGHT POLE
 - MANHOLE
 - SIGN
 - TREE
 - WM: WATER METER
 - WV: WATER VALVE
 - GP: GUARD POST
 - BARBEQUE PIT
 - TRASH CAN
 - PROPOSED BOLLARD
 - CHAIN LINK FENCE
 - WOOD FENCE
 - EXISTING ELEVATION
 - PROPOSED TOP OF CONCRETE

NOTES:
THE HORIZONTAL DATUM (GRID COORDINATES) ARE NAD 83, TEXAS SOUTH ZONE, AND REFERENCES NOS MONUMENT P.B. DRIBBES.
VERTICAL DATUM IS CITY DATUM. ALL VERTICAL CONTROL ON THIS PROJECT IS BASED ON THE FOLLOW BENCHMARK PROVIDED BY THE CITY OF CORPUS CHRISTI: AT THE INTERSECTION OF COASTAL AVE. & N. SHORELINE BLVD. EL. 3.65'

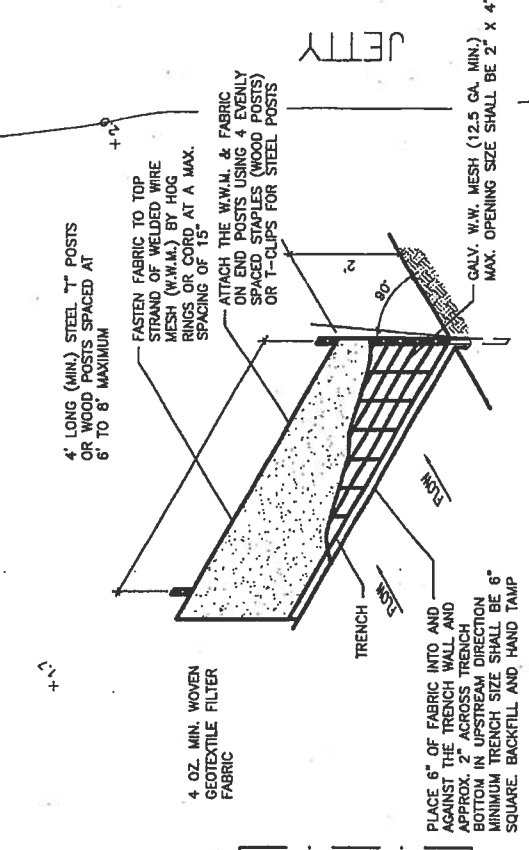


REVISION NO.	DATE	DESCRIPTION



POINT NO.	LINE/CURVE DATA	STATION	NORTHING	EASTING	EXISTING ELEVATION	PROPOSED ELEVATION
①		0+00	71,929.10	1,346,530.04	-	-
②	LENGTH: 194.72 CURVE: 105°47'03" W	1+94.72	17,193,011.61	1,346,363.51	-	-
③	DELTA: 53°53'12" RADIUS: 55.00 TANGENT: 27.96	2+46.45	17,193,063.94	1,346,337.22	-	-
④	LENGTH: 30.07 CURVE: 104°53'49" W	2+76.52	17,193,063.91	1,346,334.65	-	-
⑤	DELTA: 28°45'39" RADIUS: 25.00 TANGENT: 12.50	2+88.20	17,193,063.38	1,346,336.36	-	-
⑥	LENGTH: 141.28 CURVE: 121°52'50" E	4+29.48	17,193,226.47	1,346,368.01	-	-
⑦	DELTA: 30°34'12" RADIUS: 25.00 TANGENT: 12.50	4+42.82	17,193,229.58	1,346,360.53	-	-
⑧	LENGTH: 112.97 CURVE: 508°41'22" E	5+55.75	17,193,351.19	1,346,373.48	-	-

NOTES:
THE HORIZONTAL DATUM (GRID COORDINATES) ARE NAD 83, TEXAS SOUTH ZONE, AND REFERENCES NGS MONUMENT PID: D44863.
VERTICAL DATUM IS CITY DATUM. ALL VERTICAL CONTROL ON THIS PROJECT IS BASED ON THE FOLLOWING BENCHMARK PROVIDED BY THE CITY OF CORPUS CHRISTI: AT THE INTERSECTION OF COASTAL AVE. & N. SHORELINE BLVD. EL. 3.65'






1
10 10 NO SCALE
TEMPORARY SEDIMENT CONTROL BARRIER FENCE DETAIL

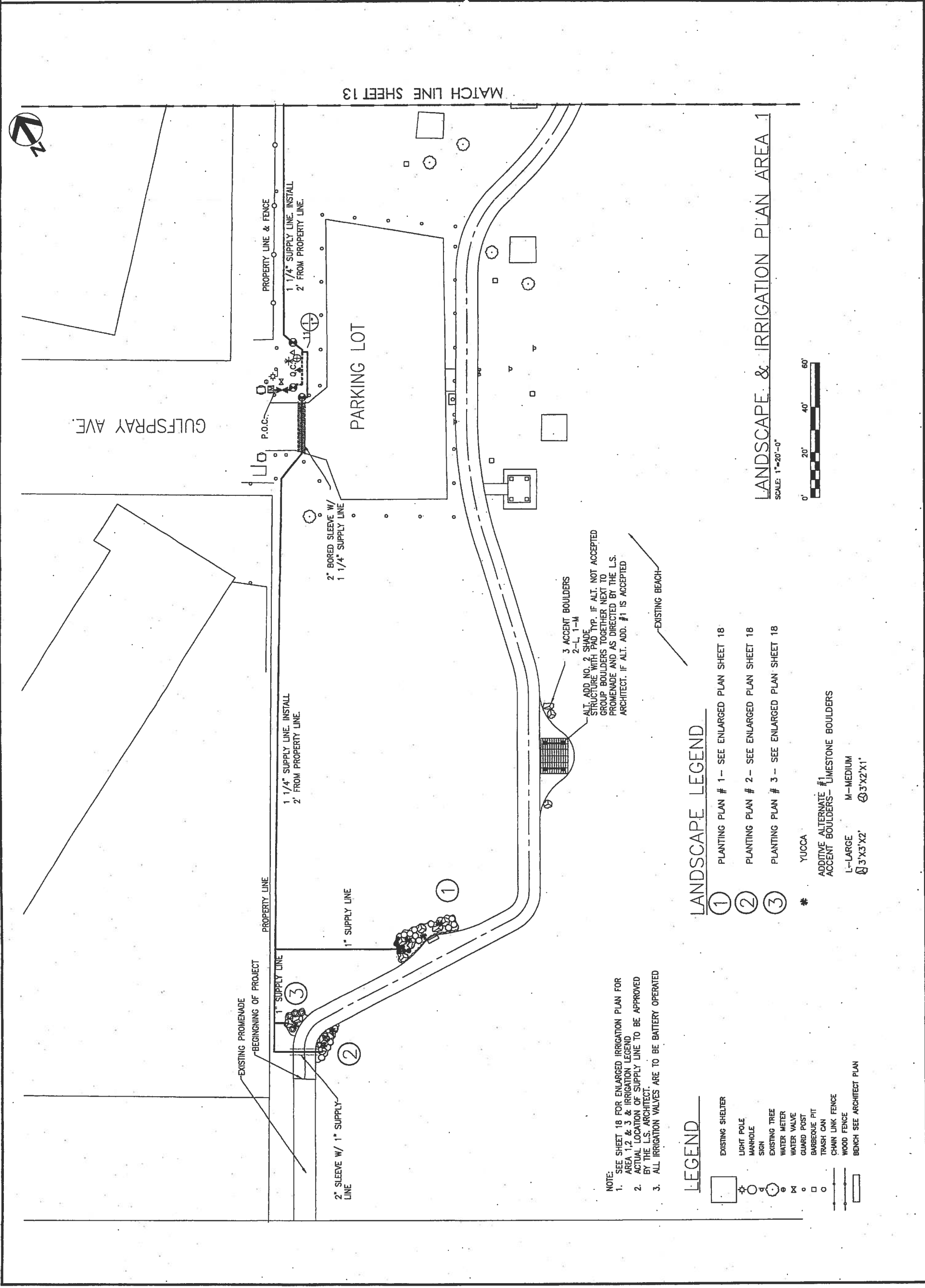
CONTINUATION ON SHEET 9 OF 28

CONTINUATION ON SHEET 9 OF 21

LEGEND














- These standard symbols will be found in the drawing.
- LP-○ LIGHT POLE
 - MANHOLE
 - SIGN
 - TREE
 - WM-○ WATER METER
 - WMV-○ WATER VALVE
 - GP-○ GUARD POST
 - BARBEQUE PIT
 - TRASH CAN
 - PROPOSED BOLLARD
 - CHAIN LINK FENCE
 - WOOD FENCE
 - EXISTING ELEVATION
 - PROPOSED TOP OF CONCRETE

CONSULTANT'S SHEET: L1 PROJECT NO. 09-34002	 2/3/12	 WRIGHT ARCHITECTS 810 ORIOLE CORPUS CHRISTI TX 78418 PH 361.657.0182 FX 361.774.7869 CL 361.774.7869 URBAND@FLASHNET	Department of Engineering Services CITY of CORPUS CHRISTI TEXAS 	CORPUS CHRISTI NORTH BEACH PROMENADE NORTHWARD EXTENSION (BOND 2008) REBID LANDSCAPE & IRRIGATION PLAN AREA 1	SHEET 12 of 21 RECORD DRAWING NO. CP-183 CITY PROJECT / 3593
REVISION NO.	DATE	BY	DESCRIPTION	REVISION NO.	DATE



NOTE:
 1. SEE SHEET 18 FOR ENLARGED IRRIGATION PLAN FOR AREA 1, 2 & 3 & IRRIGATION LEGEND
 2. ACTUAL LOCATION OF SUPPLY LINE TO BE APPROVED BY THE L.S. ARCHITECT.
 3. ALL IRRIGATION VALVES ARE TO BE BATTERY OPERATED

LEGEND

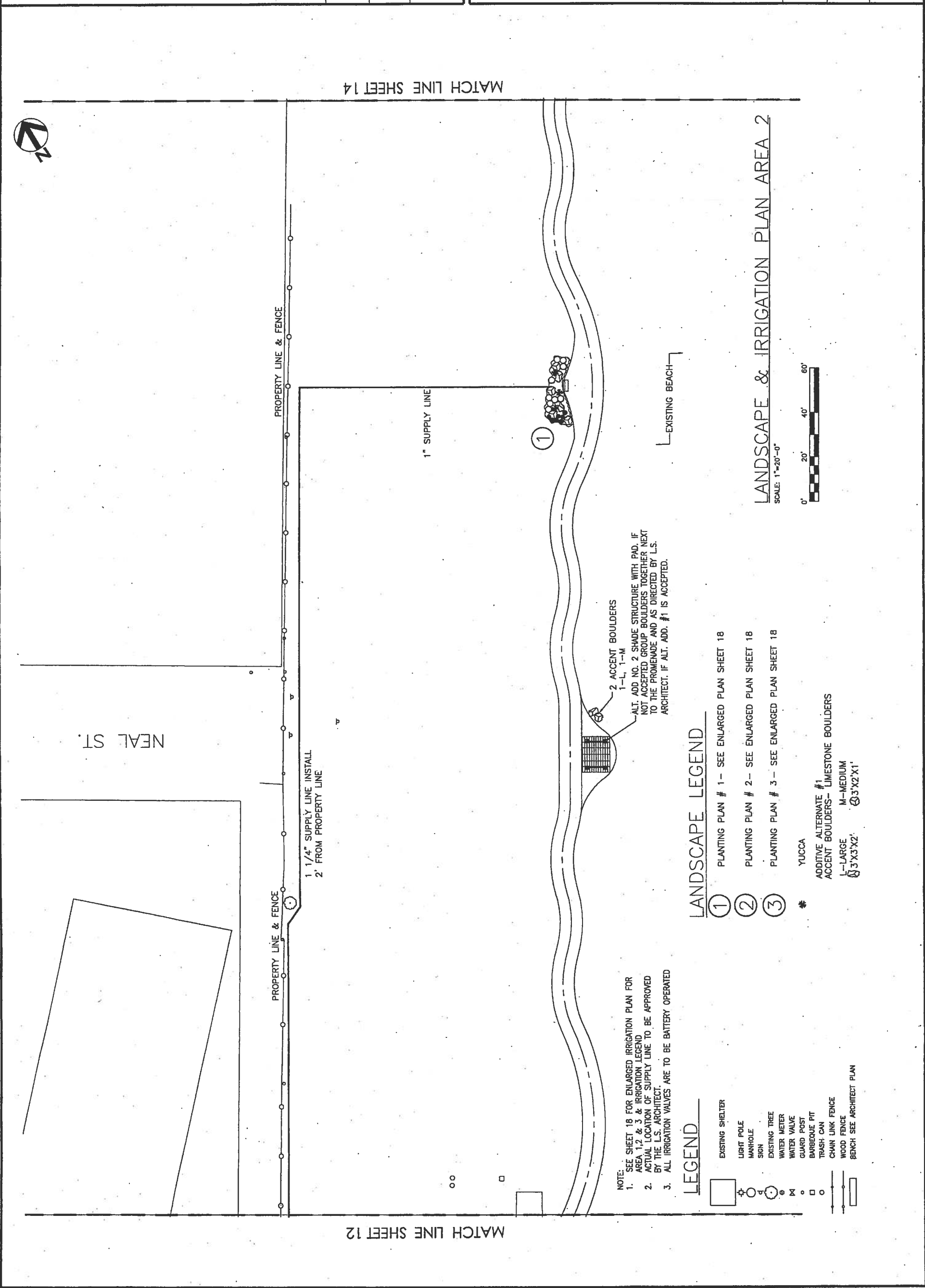
-  EXISTING SHELTER
-  LIGHT POLE
-  MANHOLE
-  SIGN
-  EXISTING TREE
-  WATER METER
-  WATER VALVE
-  GUARD POST
-  BARBECUE PIT
-  TRASH CAN
-  CHAIN LINK FENCE
-  WOOD FENCE
-  BENCH SEE ARCHITECT PLAN

LANDSCAPE LEGEND

- ① PLANTING PLAN # 1 - SEE ENLARGED PLAN SHEET 18
- ② PLANTING PLAN # 2 - SEE ENLARGED PLAN SHEET 18
- ③ PLANTING PLAN # 3 - SEE ENLARGED PLAN SHEET 18
- * YUCCA
- ADDITIVE ALTERNATE #1 LIMESTONE BOULDERS
- ACCENT BOULDERS - L-MEDIUM
- L-LARGE 3'X3'X2'
- M-MEDIUM 3'X2'X1'



REVISION NO.	DATE	BY	DESCRIPTION

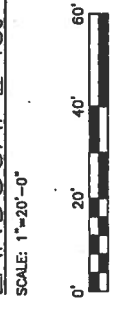


MATCH LINE SHEET 14

MATCH LINE SHEET 12



LANDSCAPE & IRRIGATION PLAN AREA 2



NOTE:
1. SEE SHEET 18 FOR ENLARGED IRRIGATION PLAN FOR AREA 1, 2 & 3 & IRRIGATION LEGEND.
2. ACTUAL LOCATION OF SUPPLY LINE TO BE APPROVED BY THE L.S. ARCHITECT.
3. ALL IRRIGATION VALVES ARE TO BE BATTERY OPERATED.

LANDSCAPE LEGEND

- ① PLANTING PLAN # 1 - SEE ENLARGED PLAN SHEET 18
- ② PLANTING PLAN # 2 - SEE ENLARGED PLAN SHEET 18
- ③ PLANTING PLAN # 3 - SEE ENLARGED PLAN SHEET 18
- * YUCCA
- ADDITIVE ALTERNATE #1
- ACCENT BOULDERS - LIMESTONE BOULDERS
 - L - LARGE 3'X3'X2'
 - M - MEDIUM 3'X2'X1'

LEGEND

- EXISTING SHELTER
- LIGHT POLE
- MANHOLE
- SIGN
- EXISTING TREE
- WATER METER
- WATER VALVE
- GUARD POST
- BARBEQUE PIT
- TRASH CAN
- CHAIN LINK FENCE
- WOOD FENCE
- BENCH SEE ARCHITECT PLAN

EXISTING BEACH

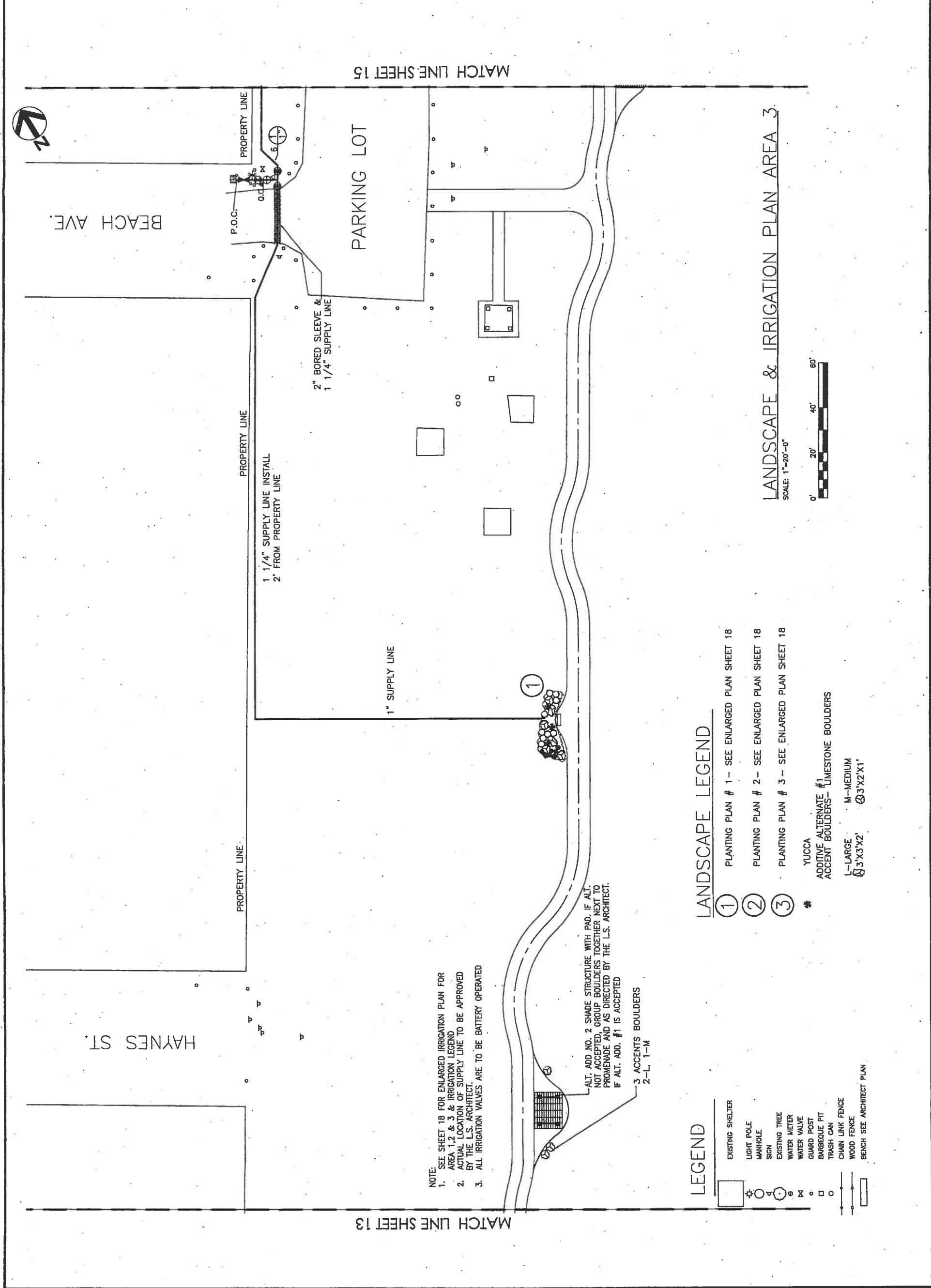
PROPERTY LINE & FENCE

1" SUPPLY LINE

1. 1/4" SUPPLY LINE INSTALL
2' FROM PROPERTY LINE

NEAL ST.

REVISION NO.	DATE	DESCRIPTION



MATCH LINE SHEET 13

MATCH LINE SHEET 15

HAYNES ST.

BEACH AVE.

PARKING LOT

LEGEND

- EXISTING SHELTER
- LIGHT POLE
- MANHOLE
- SIGN
- EXISTING TREE
- WATER METER
- WATER VALVE
- GUARD POST
- BARBECUE PIT
- TRASH CAN
- CHAIN LINK FENCE
- WOOD FENCE
- BENCH SEE ARCHITECT PLAN

LANDSCAPE LEGEND

- ① PLANTING PLAN # 1 - SEE ENLARGED PLAN SHEET 18
- ② PLANTING PLAN # 2 - SEE ENLARGED PLAN SHEET 18
- ③ PLANTING PLAN # 3 - SEE ENLARGED PLAN SHEET 18
- * YUCCA
- ADDITIVE ALTERNATE #1 ACCENT BOULDERS - LIMESTONE BOULDERS
- L-LARGE 3'x3'x2'
- M-MEDIUM 3'x2'x1'

NOTE:
1. SEE SHEET 18 FOR ENLARGED IRRIGATION PLAN FOR AREA 1, 2 & 3 & IRRIGATION LEGEND BY THE L.S. ARCHITECT.
2. ACTUAL LOCATION OF SUPPLY LINE TO BE APPROVED BY THE L.S. ARCHITECT.
3. ALL IRRIGATION VALVES ARE TO BE BATTERY OPERATED




ALT. ADD. NO. 2 SHADE STRUCTURE WITH PAD. IF ALT. NOT ACCEPTED, GROUP BOULDERS TOGETHER NEXT TO PROMENADE AND AS DIRECTED BY THE L.S. ARCHITECT. IF ALT. ADD. #1 IS ACCEPTED

3 ACCENTS BOULDERS
2-L, 1-M

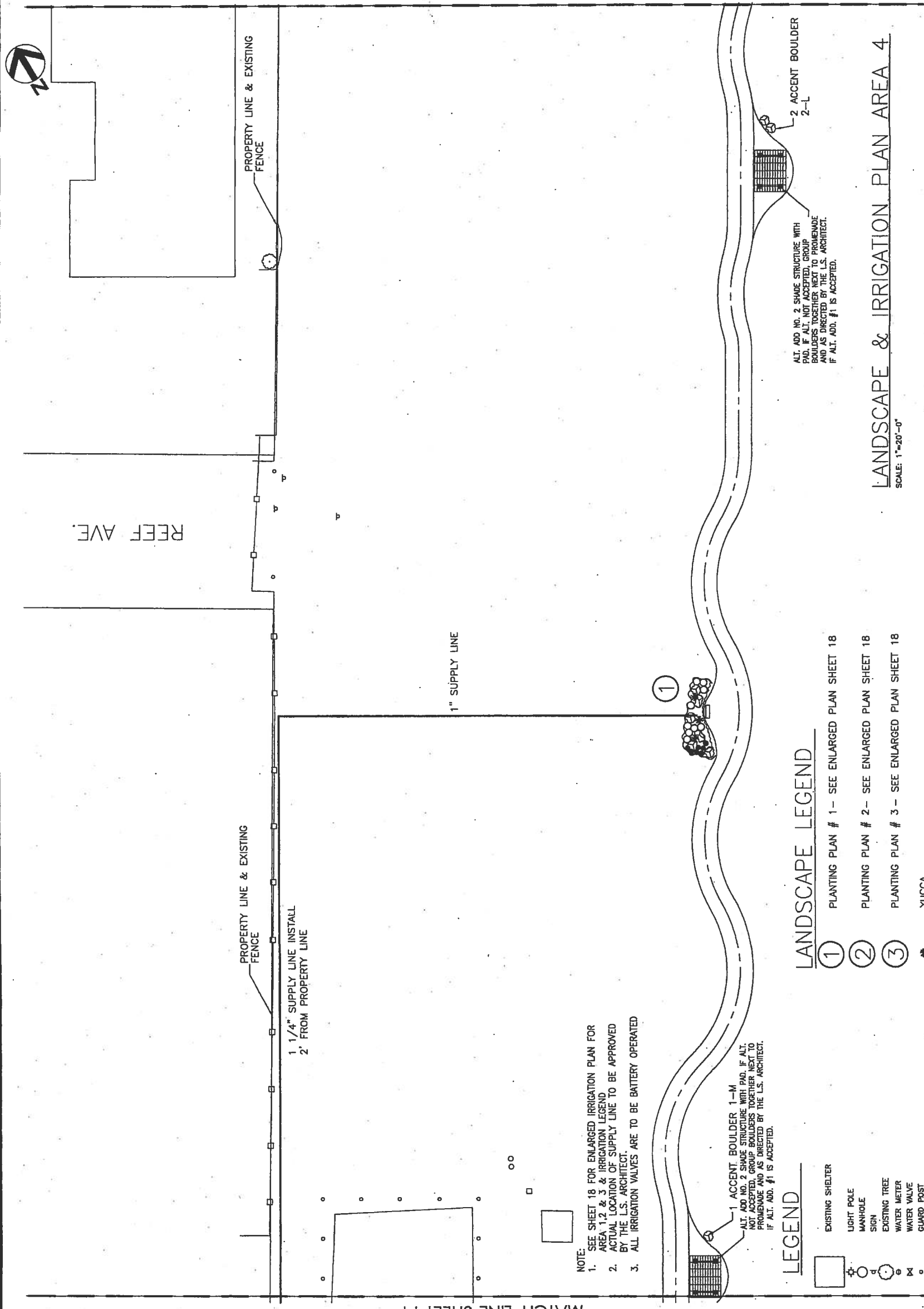
LANDSCAPE & IRRIGATION PLAN AREA 3

SCALE: 1"=20'-0"



CONSULTANT'S SHEET: L4 PROJECT NO. 09-34002	 2/3/12	 WRIGHT ARCHITECTS 910 ORIOLE CORPUS CHRISTI TX 78416 PH 361.657.0182 FX 361.774.7888 CL 361.774.7888 URBANO@FLASH.NET	 CITY of CORPUS CHRISTI TEXAS Department of Engineering Services	CORPUS CHRISTI NORTH BEACH PROMENADE NORTHWARD EXTENSION (BOND 2008) REBID LANDSCAPE & IRRIGATION PLAN AREA 4	SHEET 15 of 21 RECORD DRAWING NO. CP-183 CITY PROJECT # 3393
REVISION NO. DATE BY DESCRIPTION		REVISION NO. DATE BY DESCRIPTION		REVISION NO. DATE BY DESCRIPTION	

MATCH LINE SHEET 16



LANDSCAPE LEGEND

- ① PLANTING PLAN # 1 - SEE ENLARGED PLAN SHEET 18
- ② PLANTING PLAN # 2 - SEE ENLARGED PLAN SHEET 18
- ③ PLANTING PLAN # 3 - SEE ENLARGED PLAN SHEET 18
- * YUCCA

LEGEND

- EXISTING SHELTER
- LIGHT POLE
- MANHOLE
- SIGN
- EXISTING TREE
- WATER METER
- WATER VALVE
- GUARD POST
- BARBECUE PIT
- TRASH CAN
- CHAIN LINK FENCE
- WOOD FENCE
- BENCH SEE ARCHITECT PLAN

ALT. ADD. NO. 2 SHADE STRUCTURE WITH PAD. IF ALT. NOT ACCEPTED, GROUP BOULDERS TOGETHER NEXT TO PROMENADE AND AS DIRECTED BY THE L.S. ARCHITECT. IF ALT. ADD. #1 IS ACCEPTED.




2-2 ACCENT BOULDER

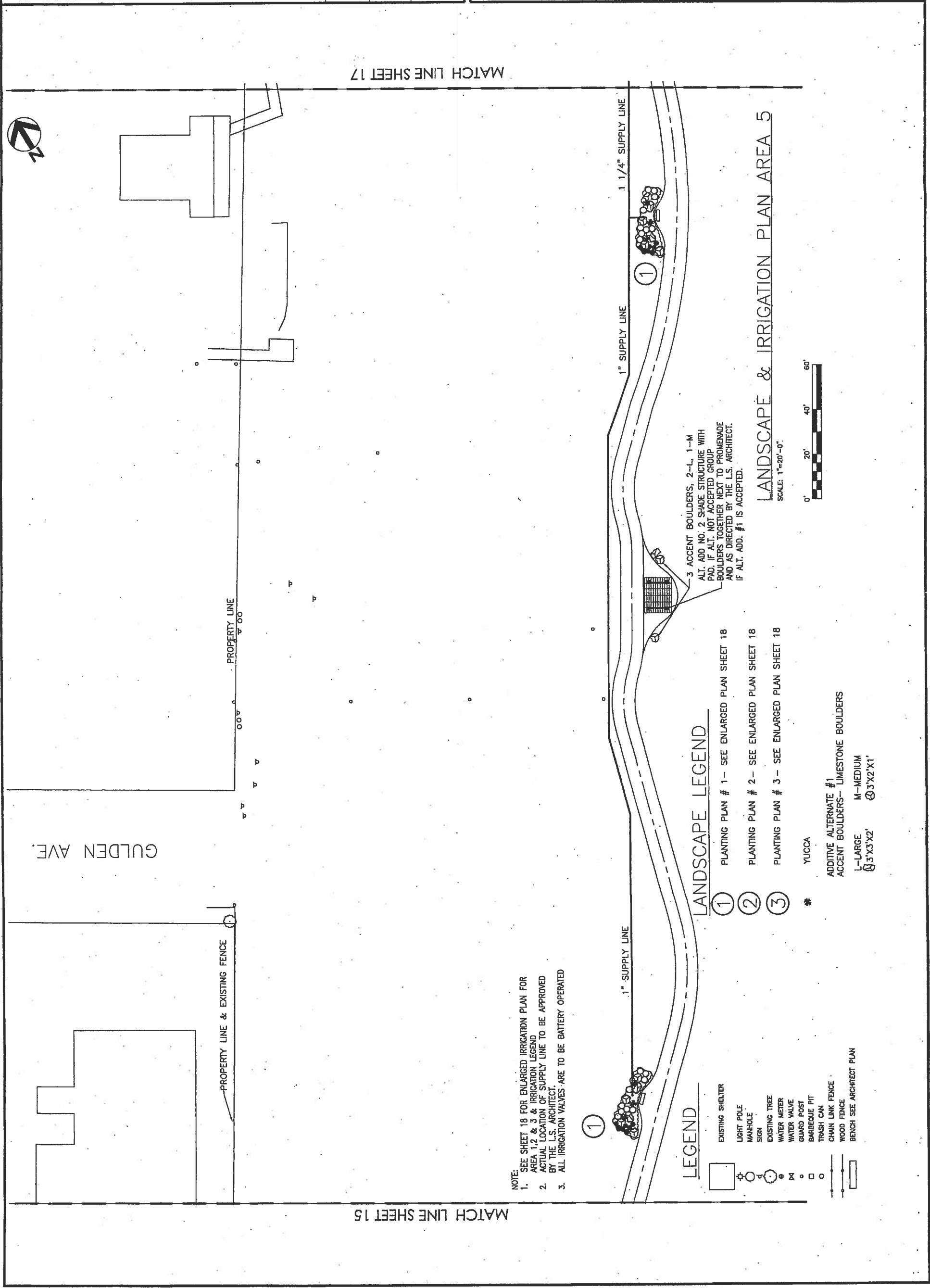


LANDSCAPE & IRRIGATION PLAN AREA 4
 SCALE: 1"=20'-0"

NOTE:
 1. SEE SHEET 18 FOR ENLARGED IRRIGATION PLAN FOR AREA 1, 2 & 3 & IRRIGATION LEGEND.
 2. ACTUAL LOCATION OF SUPPLY LINE TO BE APPROVED BY THE L.S. ARCHITECT.
 3. ALL IRRIGATION VALVES ARE TO BE BATTERY OPERATED














MATCH LINE SHEET 14

CONSULTANT'S SHEET: L5 PROJECT NO. 09-34002	 2/3/12  H. HASKAN ENGINEERING, LLC 810 ORIOLE CORPUS CHRISTI, TX 78416 PH 361.657.0182 FX 361.774.7589 CL 361.774.7589 URBANO@FLASH.NET	 CITY OF CORPUS CHRISTI TEXAS Department of Engineering Services	CORPUS CHRISTI NORTH BEACH PROMENADE NORTHWARD EXTENSION (BOND 2008) REBID LANDSCAPE & IRRIGATION PLAN AREA 5
REVISION NO. _____ DATE _____ BY _____ DESCRIPTION _____	REVISION NO. _____ DATE _____ BY _____ DESCRIPTION _____	SHEET 16 of 21 RECORD DRAWING NO. CP-183 CITY PROJECT # 3393	



NOTE:
 1. SEE SHEET 18 FOR ENLARGED IRRIGATION PLAN FOR AREA 1, 2 & 3 & IRRIGATION LEGEND
 2. ACTUAL LOCATION OF SUPPLY LINE TO BE APPROVED BY THE L.S. ARCHITECT.
 3. ALL IRRIGATION VALVES ARE TO BE BATTERY OPERATED

LEGEND

-  EXISTING SHELTER
-  LIGHT POLE
-  MANHOLE
-  SIGN
-  EXISTING TREE
-  WATER METER
-  WATER VALVE
-  GUARD POST
-  BARBECUE PIT
-  TRASH CAN
-  CHAIN LINK FENCE
-  WOOD FENCE
-  BENCH SEE ARCHITECT PLAN

LANDSCAPE LEGEND

- ① PLANTING PLAN # 1 - SEE ENLARGED PLAN SHEET 18
- ② PLANTING PLAN # 2 - SEE ENLARGED PLAN SHEET 18
- ③ PLANTING PLAN # 3 - SEE ENLARGED PLAN SHEET 18

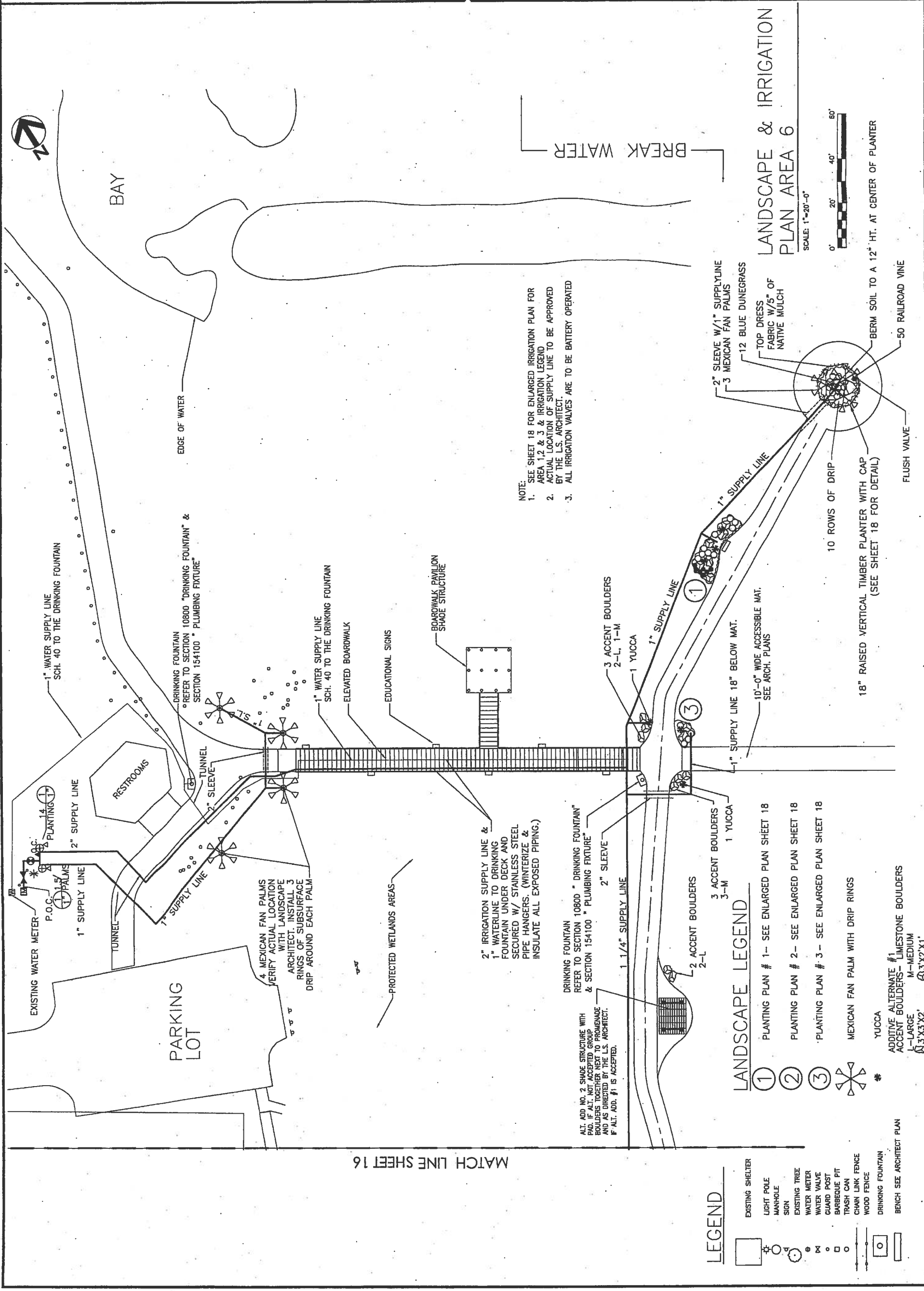
- * YUCCA
- ADDITIVE ALTERNATE #1
- ACCENT BOULDERS-- LIMESTONE BOULDERS
- L--LARGE 3'X3'X2'
- M--MEDIUM 3'X2'X1'

3 ACCENT BOULDERS, 2-L, 1-M
 ALT. ADD NO. 2 SHADE STRUCTURE WITH PAD. IF ALT. NOT ACCEPTED GROUP BOULDERS TOGETHER NEXT TO PROMENADE AND AS DIRECTED BY THE L.S. ARCHITECT.
 IF ALT. ADD. #1 IS ACCEPTED.

LANDSCAPE & IRRIGATION PLAN AREA 5
 SCALE: 1"=20'-0"



CONSULTANT'S SHEET: L6 PROJECT NO. 09-34002	 CITY OF CORPUS CHRISTI TEXAS Department of Engineering Services	WRIGHT ARCHITECTS 810 ORIOLE CORPUS CHRISTI TX 78418 PH 361.657.0182 FX 361.657.0183 CL 361.774.7888 URBAND@FLASHNET	R. HANAY ENGINEERING, LLC 2/3/12 1201 N. H-10173	CORPUS CHRISTI NORTH BEACH PROMENADE NORTHWARD EXTENSION (BOND 2008) REBID LANDSCAPE & IRRIGATION PLAN AREA 6	SHEET 17 of 21 RECORD DRAWING NO. CP-183 CITY PROJECT # 3393
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- LEGEND**
- EXISTING SHELTER
 - LIGHT POLE
 - MANHOLE
 - SIGN
 - EXISTING TREE
 - WATER METER
 - WATER VALVE
 - GUARD POST
 - BARBEQUE PIT
 - TRASH CAN
 - CHAIN LINK FENCE
 - WOOD FENCE
 - DRINKING FOUNTAIN
 - BENCH SEE ARCHITECT PLAN

- LANDSCAPE LEGEND**
- ① PLANTING PLAN # 1 - SEE ENLARGED PLAN SHEET 18
 - ② PLANTING PLAN # 2 - SEE ENLARGED PLAN SHEET 18
 - ③ PLANTING PLAN # 3 - SEE ENLARGED PLAN SHEET 18
 - MEXICAN FAN PALM WITH DRIP RINGS
 - YUCCA
 - ADDITIVE ALTERNATE #1
 - ACCENT BOULDERS- LIMESTONE BOULDERS
 - L-LARGE
 - M-MEDIUM
 - F-3'X3'X2'
 - 3'X2'X1'

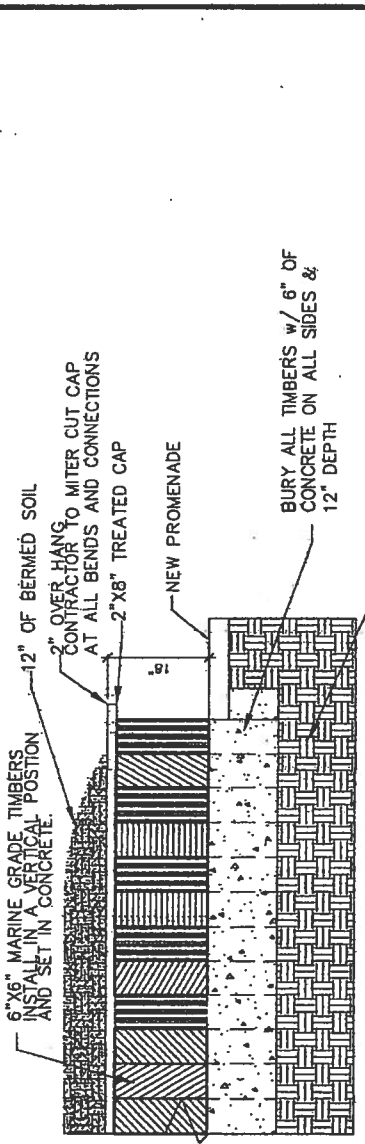
ALT. ADD. NO. 2 SHADE STRUCTURE WITH PAID. IF ALT. NOT ACCEPTED GROUP BOULDERS TOGETHER NEXT TO PROMENADE AND AS DIRECTED BY THE L.S. ARCHITECT. F ALT. ADD. #1 IS ACCEPTED.

LANDSCAPE NOTES:

- CONTRACTOR SHALL BE RESPONSIBLE FOR BECOMING FAMILIAR W/ ALL UNDERGROUND UTILITIES, PIPES & LINE RUNS. INSTALLER SHALL LOCATE & ESTABLISH ALL EXISTING UTILITIES IN CONSTRUCTION AREA BEFORE ANY EXCAVATION SHALL OCCUR.
- CONTRACTOR SHALL VISIT THE SITE TO EXAMINE THE CONDITIONS AS THEY EXIST & DETERMINE THE NATURE OF MATERIALS TO BE USED, AND ALL PERTINENT INFORMATION TO THE WORK.
- LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION W/ IRRIGATION & SUBCONTRACTORS AS REQUIRED TO ACCOMPLISH ALL LANDSCAPE OPERATIONS.
- BACKFILL PLANTING MIX FOR ALL PALMS & SHRUBS SHALL BE IN THE FOLLOWING PROPORTIONS: 2/3 COMPOSTED TOPSOIL & 1/3 BARK MULCH 'AGRIFORM' TABLETS IN ALL BACKFILL MIX PER PLANT.
- ALL SITE AND DIRT WORK IS THE RESPONSIBILITY OF THE CONTRACTOR.
- TOP DRESS ALL PLANTING BEDS W/ 4" OF CONCRETE SAND & PEA GRAVEL MIXTURE. TOP DRESS MIXTURE TO BE 60% CONCRETE SAND & 40% PEA GRAVEL. TOPDRESS BEDS WITH SAND FIRST AND THEN ADD PEA GRAVEL ON TOP. LANDSCAPE FABRIC TO BE A WHITE FABRIC. SUBMIT SAMPLE FOR APPROVAL. TOP DRESS MEXICAN PALMS IN A LAWN/BEACH SETTING W/ 5" OF NATIVE MULCH.
- ALL PLANTING AREAS/BEDS ARE BERMED WITH TOPSOIL & BOULDERS 'PLANT PIT' ALL PLANTINGS. BERMS SHALL HAVE ROUND TOPS WITH GENTLE SIDE SCOPES. STAKE BERM LOCATION FOR APPROVAL.
- ALL EXCAVATED SAND/SOIL ON PROMENADE SHALL BE USED FOR TOP DRESSING & WATER SAUCERS.
- CONTRACTOR IS RESPONSIBLE FOR ANY REQUIRED STAKING AND GUYING OF MEXICAN FAN PALMS.
- BOULDERS TO BE A LIMESTONE BOULDER. COLOR TO BE BROWN TO CREAM IN COLOR. PLACE IN A 'OUT CROPPING POSITION'. BOULDERS SHALL NOT HAVE ANY SHARP OR POINTED EDGES. ALL BOULDERS ARE ADD. ALT. A1
- EDGE TO BE A SHARP, CRISP, BEVELED NATURAL EDGE.
- SOIL FOR ALL BERMING TO BE A TOP SOIL. TOP SOIL TO BE BROWN IN COLOR SUBMIT SAMPLE FOR APPROVAL.
- CONTRACTOR SHALL TAKE EXTREME CARE TO MINIMIZE DAMAGE TO EXISTING VEGETATION COVER AND EXISTING BEACH. COORDINATE & SEQUENCE CONSTRUCTION INSTALLATION TO DO MINIMIZE DAMAGE TO EXISTING CONDITIONS.

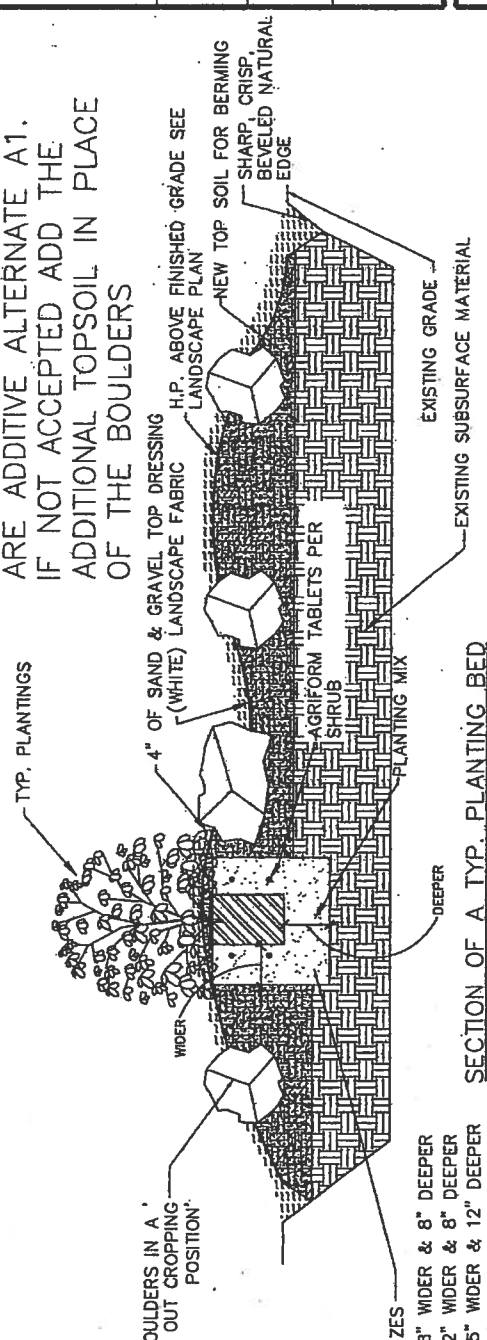
PLANT LIST

QTY.	NAME	SIZE	COMMENTS	SPACING
7	Mexican Fan Palm	7' Trk. Ft.	Freshly Dug, Heavy Butted, Tight Husk, Grade "A", 18" Dia. Base(Butt)	AS SHOWN & DIRECTED
28	Washingtonia robusta/filifer	4'-6' Ht.	Specimen, Match Good Form, 30" Head	AS SHOWN
211	Yucca	1 Gallon	12" Multi Runners Rooted.	24" O.C.
15	Yucca treculeana	2 Gallon	15" Ht. Rooted, Full Good Shrub Form	32" O.C.
27	Railroad Vine	1 Gallon	Not Leggy, 12" Ht. Full Container, New Growth	18" O.C.
49	Beach Vitex	3 Gallon	18" Ht. Full Pot, 12" Sprd. Rooted	32" O.C.
79	Vitex rotundifolia	2 Gallon	Rooted, 15" Ht, Full & Rooted Good Color	32" O.C.
	Muhlenbergia capillaris			
	Scaevola plumieri			
	Scaevola graminifolia			
	Leymus arenarius			

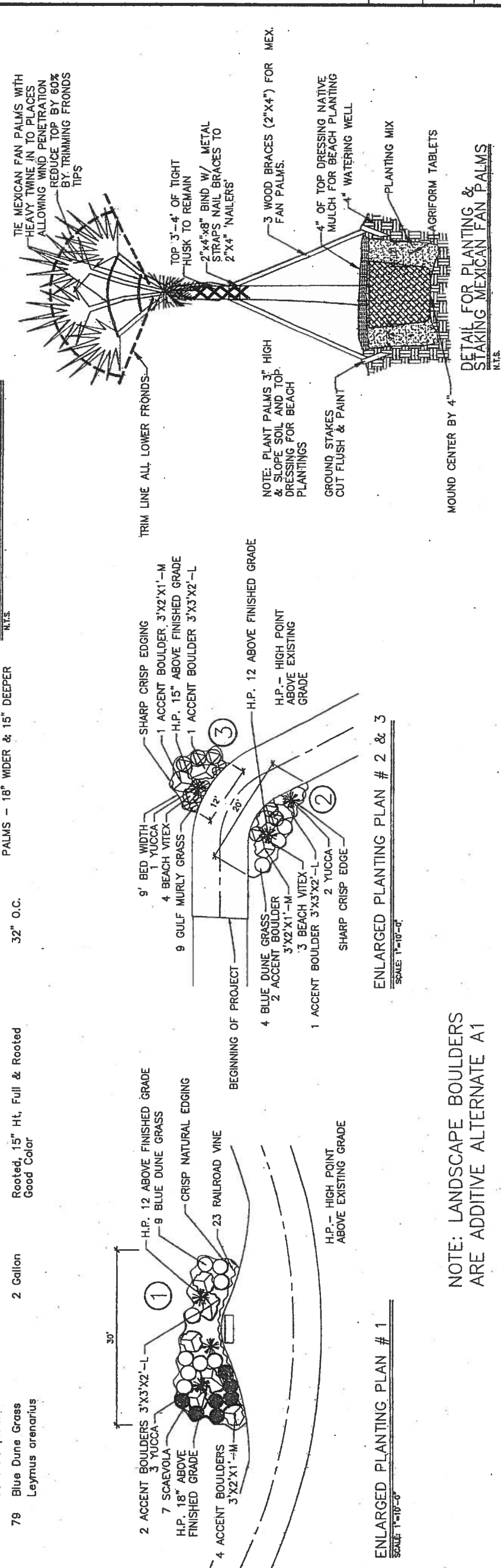


TYP. TIMBER PLANTER INSTALLATION DETAIL

NOTE: LANDSCAPE BOULDERS ARE ADDITIVE ALTERNATE A1. IF NOT ACCEPTED ADD THE ADDITIONAL TOPSOIL IN PLACE OF THE BOULDERS



SECTION OF A TYP. PLANTING BED



ENLARGED PLANTING PLAN # 1

ENLARGED PLANTING PLAN # 2 & 3

NOTE: LANDSCAPE BOULDERS ARE ADDITIVE ALTERNATE A1



2/3/12

WRIGHT ARCHITECTS
810 ORIOLE
CORPUS CHRISTI TX 78418
PH 361.687.0182
FX 361.774.7688
URBANO@FLASHNET

CITY OF CORPUS CHRISTI
TEXAS
Department of Engineering Services

CORPUS CHRISTI NORTH BEACH
PROMENADE NORTHWARD EXTENSION
(BOND 2008) [REBID]
IRRIGATION NOTES & DETAILS

SHEET 19 of 21
RECORD DRAWING NO.
CP-183
CITY PROJECT # 3593

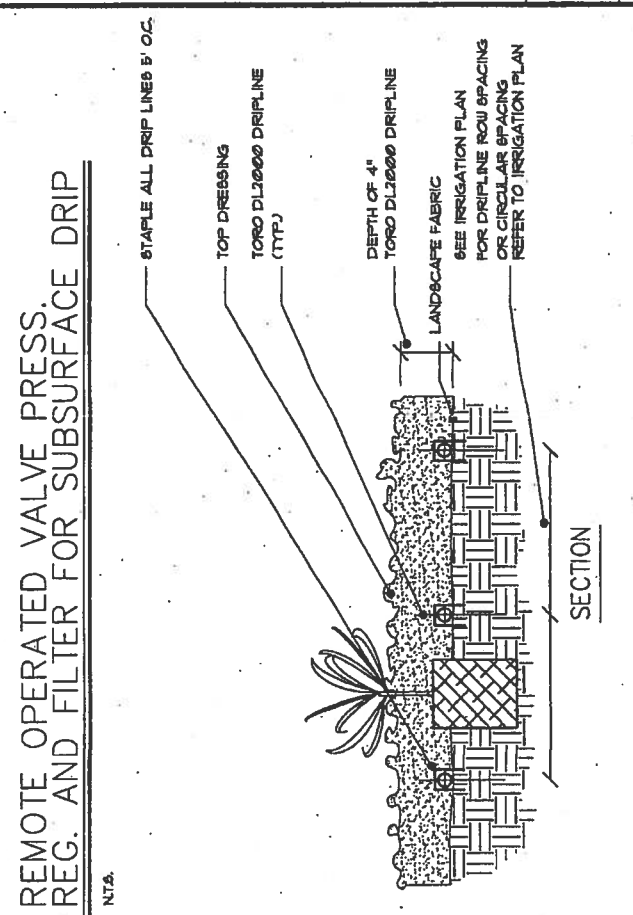
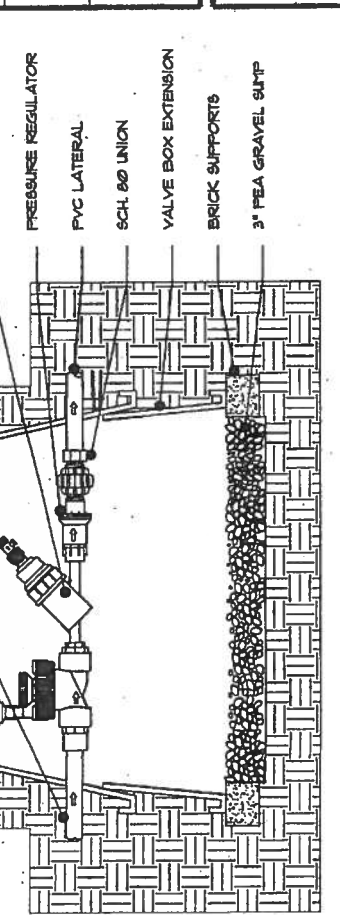
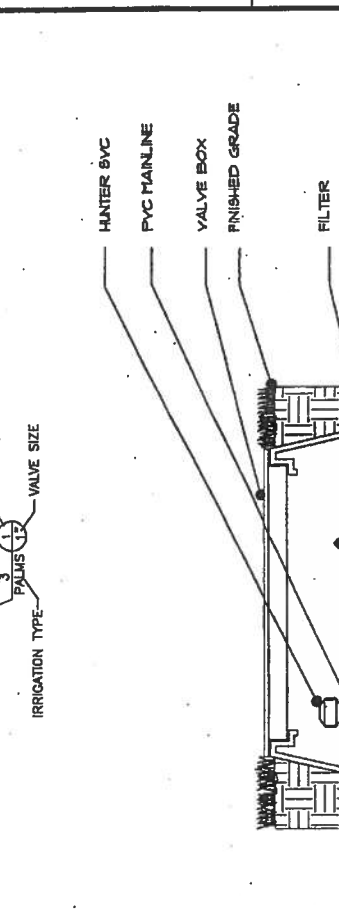
REVISION NO.	DATE	DESCRIPTION

NOTE: IRRIGATION SYSTEM WAS DESIGNED WITH A MINIMUM STATIC PRESSURE OF 50 PSI AT THE P.O.C. INSTALLER SHALL FIELD VERIFY THE PRESSURE PRIOR TO ANY INSTALLATION. IF ANY DISCREPANCY EXIST NOTIFY THE LANDSCAPE ARCHITECT.

Design Pressure Calculation

Zone #1, 14 GPM	
1. Service Line, Copper	.66 PSI
2. Meter	1.10 PSI
3. Electric Valve	1.60 PSI
4. Pressure Vacuum Breaker	3.25 PSI
5. Mainline	.16 PSI
6. Laterals	1.20 PSI
7. Head Pressure Requirement	25.0 PSI
Design Pressure	32.97 PSI
Static Pressure	50.00 PSI
Residual Pressure	17.03 PSI

- IRRIGATION NOTES:
- CONTRACTOR SHALL CONFORM TO ALL CODES & ORDINANCES RELEVANT TO THE WORK UNDER THIS CONTRACT.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LABOR MATERIALS NECESSARY TO FULLY EXECUTE & GUARANTEE THE WORK ENTAILED IN THESE CONTRACT DOCUMENTS.
 - IRRIGATION SYSTEM LAYOUT IS DIAGRAMMATIC EXACT LOCATIONS OF PIPING, VALVES & OTHER COMPONENTS SHALL BE ESTABLISHED BY CONTRACTOR AND SUBCONTRACTOR IN THE FIELD AT TIME OF INSTALLATION AND APPROVED BY LANDSCAPE ARCHITECT.
 - ALL VALVES SHALL BE PLACED IN VALVE BOXES W/MIN. OF 3" OF GRAVEL MIX FOR DRAINAGE. VALVE BOX TO BE A JUMBO BOX 18"x24"x18" & 10" VALVE BOXES FOR AIR VENT AND FLUSH VALVE.
 - ACCURATE AS-BUILT SHOWING AS A MIN. VALVE LOCATION, SUPPLY LINE & SLEEVE LOCATION. WILL BE REQUIRED ALONG WITH ALL PRODUCT INFORMATION & OPERATIONS MANUAL AT PROJECT CLOSE OUT.
 - PROVIDE CITY WITH A TOTAL OF (2) SWIVEL & KEYS FOR QUICK COUPLERS. IRRIGATOR IS RESPONSIBLE FOR ALL COORDINATION WITH THE LANDSCAPE CONTRACTOR AND PARKS & RECREATION DEPARTMENT, GENERAL CONTRACTOR AND ALL SUB-CONTRACTORS.
 - ALL PIPE RUNS, VALVES, PVB, AND MAINLINE SHALL BE STAKED/FLAGGED FOR APPROVAL.
 - ALL NECESSARY CONNECTIONS AND FITTINGS SHALL BE SUPPLIED AND INSTALLED BY THE IRRIGATION CONTRACTOR AT THE IRRIGATION METER. IRRIGATOR SHALL COORDINATE ALL NECESSARY CONNECTION AT P.O.C.
 - PRESSURE VACUUM BREAKER SHALL HAVE (2) 4" ROUND TREATED POST FOR SUPPORT. LOCATION APPROVED PARKS AND RECREATIONS DEPARTMENT.
 - CONTRACTOR TO PAY FOR ALL TAP & METER FEES & PERMITS. THE ENTIRE SYSTEM SHALL BE UNCONDITIONALLY GUARANTEED BY THE CONTRACTOR AGAINST ALL DEFECTIVE WORKMANSHIP AND MATERIALS FOR A ONE YEAR PERIOD FOLLOWING THE DATE OF ACCEPTANCE. THIS INCLUDES TRENCH SETTLEMENT.
 - CONTRACTOR SHALL OBTAIN ANY REQUIRED PERMITS, ADHERE TO ALL MUNICIPAL CODES, AND FOLLOW STANDARD AND ACCEPTED LOCAL PRACTICES.
 - SUPPLY LINES ALONG 'PROMENADE' SHALL RUN PARALLEL TO WALK & APPROX. 3' - 6' FROM WALK WHEN PRACTICAL AND 2' FROM ADJACENT PROPERTY LINE.
 - ALL LATERALS SHALL BE BURIED TO A 15" DEPTH.
 - PVC PIPING TO BE SCH. 40
 - RAIN SENSOR TO BE INSTALLED ON A 3" ROUND TREATED POST. POST TO BE 8' ABOVE FINISHED GRADE AND LOCATION TO BE APPROVED BY PARKS & RECREATION DEPARTMENT.



SUBSURFACE IRRIGATION
INSTALLATION FOR PLANTING BEDS

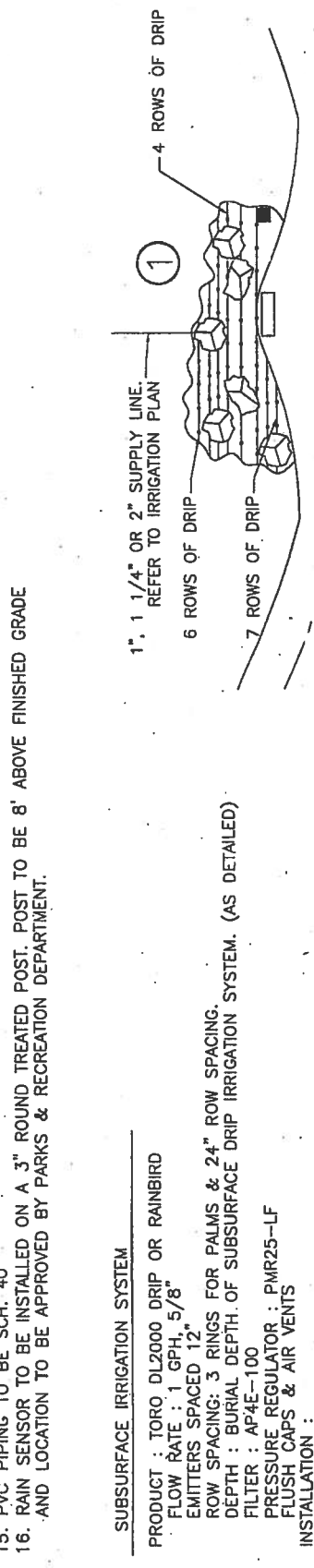
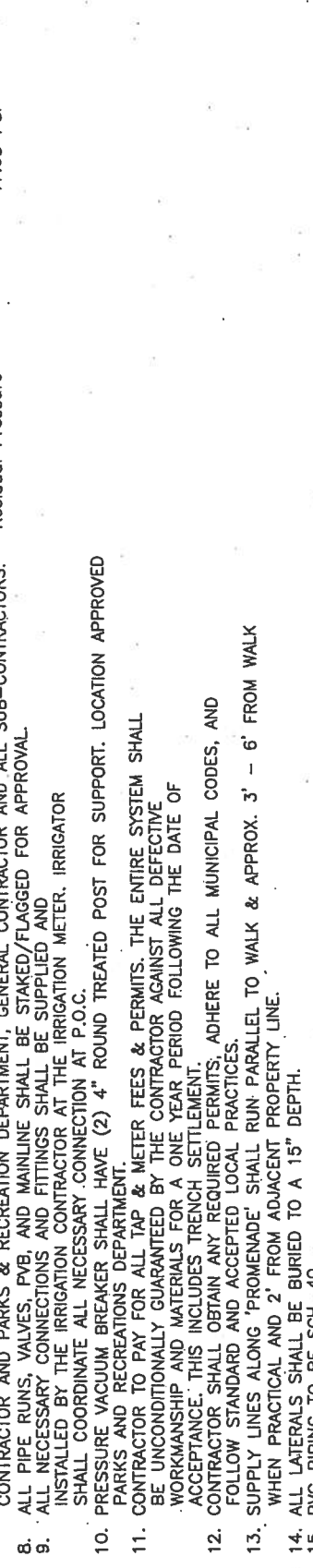
NTA

NOTE: IRRIGATION SYSTEM WAS DESIGNED WITH A MINIMUM STATIC PRESSURE OF 50 PSI AT THE P.O.C. INSTALLER SHALL FIELD VERIFY THE PRESSURE PRIOR TO ANY INSTALLATION. IF ANY DISCREPANCY EXIST NOTIFY THE LANDSCAPE ARCHITECT.

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 - ACCURATE AS-BUILT SHOWING AS A MIN. VALVE LOCATION, SUPPLY LINE & SLEEVE LOCATION. WILL BE REQUIRED ALONG WITH ALL PRODUCT INFORMATION & OPERATIONS MANUAL AT PROJECT CLOSE OUT.
 - PROVIDE CITY WITH A TOTAL OF (2) SWIVEL & KEYS FOR QUICK COUPLERS. IRRIGATOR IS RESPONSIBLE FOR ALL COORDINATION WITH THE LANDSCAPE CONTRACTOR AND PARKS & RECREATION DEPARTMENT, GENERAL CONTRACTOR AND ALL SUB-CONTRACTORS.
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 - PVC PIPING TO BE SCH. 40
 - RAIN SENSOR TO BE INSTALLED ON A 3" ROUND TREATED POST. POST TO BE 8' ABOVE FINISHED GRADE AND LOCATION TO BE APPROVED BY PARKS & RECREATION DEPARTMENT.



NOTE: BOULDERS ARE ADDITIVE ALTERNATE A1. IF NOT ACCEPTED, FIELD ADJUST DRIP LINES

INSTALLATION STEPS:

- ASSEMBLE & INSTALL FILTER, REMOTE CONTROL VALVE & PRESSURE REGULATING VALVE ASSEMBLY.
- TAPE OR PLUG ALL OPEN ENDS WHILE INSTALLING THE DRIP LINE TO PREVENT DEBRIS CONTAMINATION.
- INSTALL DRIP LINE RINGS OR ROWS.
- INSTALL AIR VACUUM RELIEF VALVES AT THE ZONES HIGHEST POINTS.
- THOROUGHLY FLUSH SUPPLY HEADERS & CONNECT DRIP LINE LATERALS WHILE FLUSHING.
- THOROUGHLY FLUSH DRIP LINE & CONNECT TO SUPPLY LINE.
- THOROUGHLY FLUSH LINES & INSTALL LINE FLUSHING VALVES. FLUSH EACH SEGMENT TO ENSURE THAT NO CONTAMINATION OCCURS.

INSTALLATION STEPS:

- PROVIDE A PROPER SUB GRADE PRIOR TO INSTALLING THE DRIP LINE LATERALS.
- PLANT ALL TREES & SHRUBS PRIOR TO INSTALLING THE DRIP LINE LINES

INSTALLATION STEPS:

- ASSEMBLE & INSTALL FILTER, REMOTE CONTROL VALVE & PRESSURE REGULATING VALVE ASSEMBLY.
- TAPE OR PLUG ALL OPEN ENDS WHILE INSTALLING THE DRIP LINE TO PREVENT DEBRIS CONTAMINATION.
- INSTALL DRIP LINE RINGS OR ROWS.
- INSTALL AIR VACUUM RELIEF VALVES AT THE ZONES HIGHEST POINTS.
- THOROUGHLY FLUSH SUPPLY HEADERS & CONNECT DRIP LINE LATERALS WHILE FLUSHING.
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REVISION NO.	DATE	BY	DESCRIPTION

