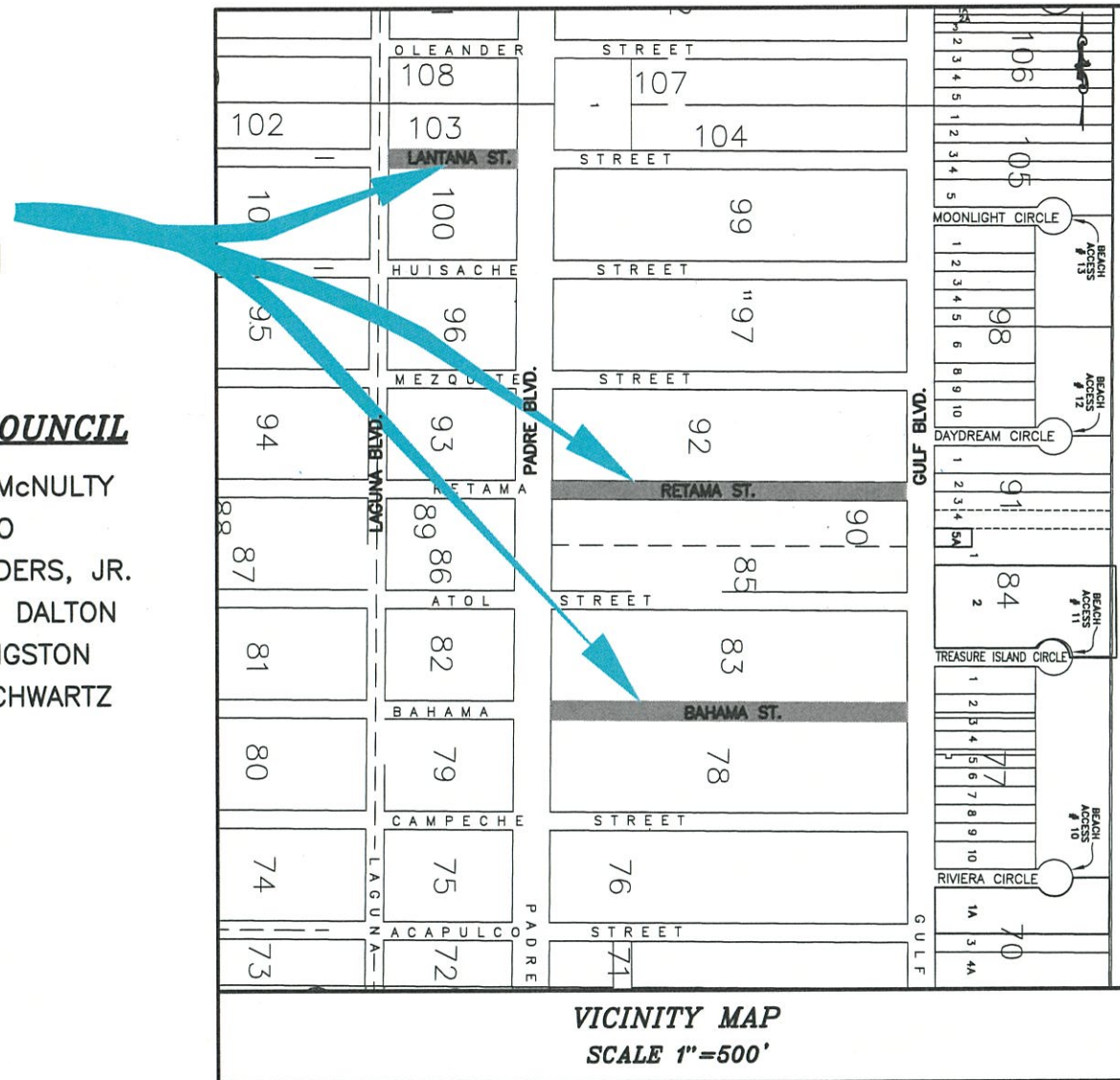


CONSTRUCTION PLANS FOR 2023 SIDE STREET IMPROVEMENTS, PHASE 2 E. BAHAMA STREET, E. RETAMA STREET & W. LANTANA STREET

PROJECT
LOCATION



SOUTH PADRE ISLAND CITY COUNCIL

MAYOR	PATRICK McNULTY
MAYOR PRO-TEM	JOE RICCO
MEMBER	KEN MEDDERS, JR.
MEMBER	EVA JEAN DALTON
MEMBER	REES LANGSTON
MEMBER	KERRY SCHWARTZ

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IN
SOUTH PADRE ISLAND
TEXAS

NOVEMBER 21, 2023



11-21-2023

**2023 SIDE STREET IMPROVEMENTS
PHASE 2, E. BAHAMA STREET
E. RETAMA STREET & W. LANTANA ST.**

TITLE SHEET	
PUBLIC WORKS	
4601 PADRE BLVD, SOUTH PADRE ISLAND TEXAS 78597 (956) 761-8158 Fax (956) 761-3898	
SCALE: AS SHOWN	REVISIONS: SHEET
DRAWN BY: CAS	1
DATE: 11/21/2023	
FILE: RETAMA	OF 52

PROJECT NOTES:

1. THE LOCATION, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES SHOWN ON THE PLANS WERE OBTAINED FROM AVAILABLE UTILITY COMPANY RECORDS AND PLANS WHICH ARE CONSIDERED APPROXIMATES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH UTILITY COMPANIES TO VERIFY LOCATIONS, ELEVATIONS, AND DIMENSIONS OF ADJACENT AND/OR CONFLICTING UTILITIES SUFFICIENTLY IN ADVANCE OF CONSTRUCTION IN ORDER THAT ADJUSTMENTS CAN BE MADE TO PROVIDE ADEQUATE CLEARANCES.
2. THE CONTRACTOR SHALL BE RESPONSIBLE IN MARKING ALL UTILITIES BEFORE COMMENCING CONSTRUCTION. CONTRACTOR TO NOTIFY TEXAS 811 (800-DIG-TESS OR WWW.TEXAS811.ORG).
3. THE CONTRACTOR SHALL PRESERVE AND PROTECT PUBLIC UTILITIES AT ALL TIMES DURING CONSTRUCTION. ANY DAMAGE TO UTILITIES RESULTING FROM CONTRACTOR'S OPERATIONS SHALL BE RESTORED AT HIS EXPENSE. UTILITY COMPANIES SHALL BE NOTIFIED AT LEAST TEN (10) DAYS IN ADVANCE OF CONSTRUCTION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE IN PROVIDING ALL CONSTRUCTION STAKING.
5. PREPARATION OF RIGHT OF WAY FOR CONSTRUCTION OPERATIONS SHALL INCLUDE REMOVAL AND DISPOSAL OF ALL OBSTRUCTIONS FROM THE RIGHT OF WAY AND FROM DESIGNATED EASEMENT. THIS ITEM SHALL INCLUDE THE REMOVAL OF TREES AND SHRUBS AND OTHER LANDSCAPE FEATURES NOT DESIGNATED FOR PRESERVATION OR RELOCATED.
6. THE CONTRACTOR SHALL BE RESPONSIBLE TO HAVE REPAIRED ANY DAMAGE TO STREETS OF THE CITY CAUSED BY DELIVERY OF MATERIALS AND/OR SUPPLIED TO THE CONSTRUCTION SITE, OR BY THE OPERATION OF EQUIPMENT AND SHALL MAKE REPAIRS IN THE MANNER AND TIME PROVIDED BY CITY INSPECTOR.
7. NON-RUBBER WHEELED VEHICLES ARE PROHIBITED FROM BEING PLACED UPON OR OPERATED UPON ANY PAVED STREET WITHIN THE CITY. (Ord. No. 71A, 8-4-1982)
8. THE CONTRACTOR SHALL REMOVE ALL SURPLUS MATERIAL FROM THE PROJECT AREA. THIS WORK SHALL BE SUBSIDIARY TO THE CONTRACT AND IS NOT A SEPARATE PAY ITEM.
9. NO PERSON MAY REMOVE OR OTHERWISE DISPOSE OF ANY FILL MATERIALS THAT ARE GENERATED AS A RESULT OF EXCAVATION WORK WITHIN THE CITY RIGHT-OF-WAYS WITHOUT THE PRIOR APPROVAL OF THE CITY. (Ord. No. 86, 11-24-1980)
10. ALL MATERIALS GENERATED AS A RESULT OF EXCAVATION OR WORK DONE WITHIN THE CITY'S RIGHT-OF-WAYS SHALL FIRST BE OFFERED TO THE CITY FOR USE AND/OR DISPOSAL. IF THE CITY HAS NO USE FOR SAID MATERIALS, THEN THE PARTY EXCAVATING MAY DISPOSE OF THE MATERIALS IN ANY OTHER MANNER HE SEES FIT, EXCEPT THAT NO EXCAVATED MATERIALS REMOVED FROM THE CITY'S RIGHT-OF-WAY MAY BE REMOVED FROM THE CITY'S CITY LIMITS. (Ord. No. 86, 11-24-1980)
11. EXCAVATED FILL MATERIALS REMOVED FROM THE CITY'S RIGHT OF WAY WILL BE USED ON DESIGNATED AREAS WITHIN THE CITY LIMITS OF THE CITY. THE CITY LIMITS IS A TOTAL OF 6.7 MILES LONG AND 0.40 MILES WIDE. THE CITY HAS A LIST OF LOTS (50'x125' TYPICAL) IN WHICH IT MAY BE DISPOSED OF. THE EXCAVATED MATERIAL MUST BE FREE OF DEBRIS.
12. THE CONTRACTOR SHALL NOT MIX BROKEN CONCRETE AND SALVAGE MATERIAL WITH EXCAVATED FILL DIRT. THE CONTRACTOR SHALL HAVE THREE SEPRATE PILES IN ORDER TO PREVENT CROSS CONTAMINATION.
13. ALL CONCRETE DEBRIS FROM REMOVAL OF DRIVEWAYS AND REMOVAL OF STORM DRAINAGE INELT, MANHOLES, PIPES, ETC. SHALL BE REMOVED WITH 15 DAYS OF THE DATE OF REMOVAL AND SHALL BE DESPOSED OFF PROPERLY. THE REMOVAL OF THE DEBRIS WILL BE SUSIDERY TO THE REMOVAL LINE ITEMS.
14. THE CONTRACTOR SHALL BE RESPONSIBLE IN OBTAINING ALL REQUIRED PERMITS. A RIGHT OF WAY (R.O.W.) PERMIT AND EASEMENT PERMIT SHALL BE OBTAINED PRIOR TO ANY CONSTRUCTION WORK ON CITY R.O.W. OR EASEMENT RESPECTIVELY.
15. CONTRACTOR WILL NOT BLOCK DRAINAGE WHEN HANDLING AND STOCKPILING EXCAVATED MATERIAL AND SHALL MAINTAIN POSITIVE DRAINAGE DURING ALL PHASES OF CONSTRUCTION.
16. CONTRACTOR TO MAINTAIN ACCESS TO DRIVEWAYS AND INTERSECTIONS THROUGH ALL PHASES OF CONSTRUCTION.
13. FOR PROPERTIES WITH A SINGLE DRIVE, DRIVEWAYS SHALL BE CONSTRUCTED SO THAT ONE HALF OF THE DRIVE IS OPEN AT ALL TIMES. IF CONSTRUCTING THE DRIVE IN TWO HALVES WILL NOT ALLOW ACCESS TO THE PROPERTY, TEMPORARY ALL-WEATHER ACCESS SHALL BE PROVIDED. NO PORTION OF THE DRIVE SHALL BE CLOSED FOR A PERIOD LONGER THAN CALENDAR DAYS.
14. ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF SOUTH PADRE ISLAND SPECIFICATIONS UNLESS OTHERWISE ON THE APPROVED PLANS. CONTRACTOR SHALL BECOME FAMILIAR WITH CITY SPECIFICATIONS.

15. TRENCH EXCAVATIONS WITH A DEPTH OF 5 FEET OR MORE SHALL HAVE APPROPRIATE TRENCH PROTECTION SUCH AS SHEETING, SHORING AND BRACING PER OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS. THE CONTRACTOR SHALL ABIDE BY ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS GOVERNING EXCAVATION. TRENCH SIDE SLOPES SHALL MEET OSHA STANDARDS THAT ARE IN EFFECT AT THE TIME OF CONSTRUCTION.
16. CONTRACTOR TO PROTECT EXPOSED PITS THAT MUST REMAIN OPEN DURING NON-WORKING HOURS AS PER OSHA REQUIREMENTS.
17. CONTRACTOR SHALL PROVIDE TEMPORARY FENCING TO PROTECT PEDESTRIANS FROM ANY ACTIVE WORK SITES AREA.
18. MOBILIZATION SHALL BE IN ACCORDANCE TXDOT ITEM 500. THE CONTRACTOR SHALL BE AWARE THAT THE RIGHT-OF-WAY IS LIMITED TO 50' AND EMPTY LOTS NEAR THE CONSTRUCTION SITE MAY BE LIMITED IN THE AMOUNT AND SIZE. THE CONTRACTOR SHALL BE RESPONSIBLE IN OBTAINING ITS OWN CONSTRUCTION STAGING AREA(S). ANY STAGING AREAS, ELECTED TO BE USED SHALL BE MAINTAINED. THE CITY HAS AN ORDINANCE FOR GARBAGE, TRASH, WEEDS AND OTHER WASTE MATERIAL. ANY TEMPORARY STUCTURE TO BE USED SHALL COMPLY WITH CITY ORDINANCE SECTON 20-11 (D).
19. TRAFFIC CONTROL SHALL BE IN COMPLIANCE WITH TXMUTCD and TxDOT ITEM 502.






SURVEY NOTES:

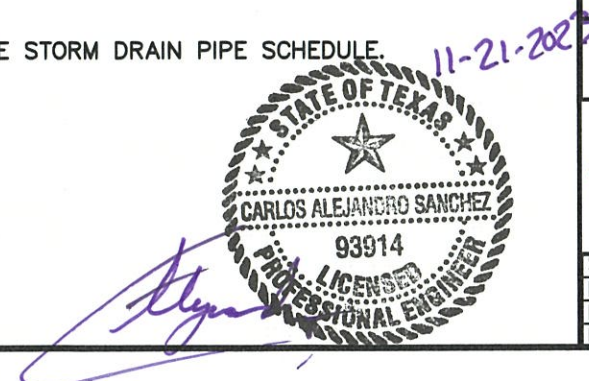
1. THE SURVEY AND ELEVATIONS WERE OBTAINED BY THE CITY USING A TRIMBLE R12i.
2. BENCHMARK INFORMATION ARE SHOWN ON VARIOUS PLAN SHEETS.
3. THE CONTRACTOR SHALL VERIFY BENCHMARKS FOR ACCURACY AND VERIFY EXISTING ELEVATIONS BEFORE SETTING GRADES. CITY STAFF WILL WORK CLOSELY WITH THE CONTRACTOR TO MAKE ANY PROPOSED ELEVATION ADJUSTMENTS, IF NEEDED.

LANDSCAPING NOTES:

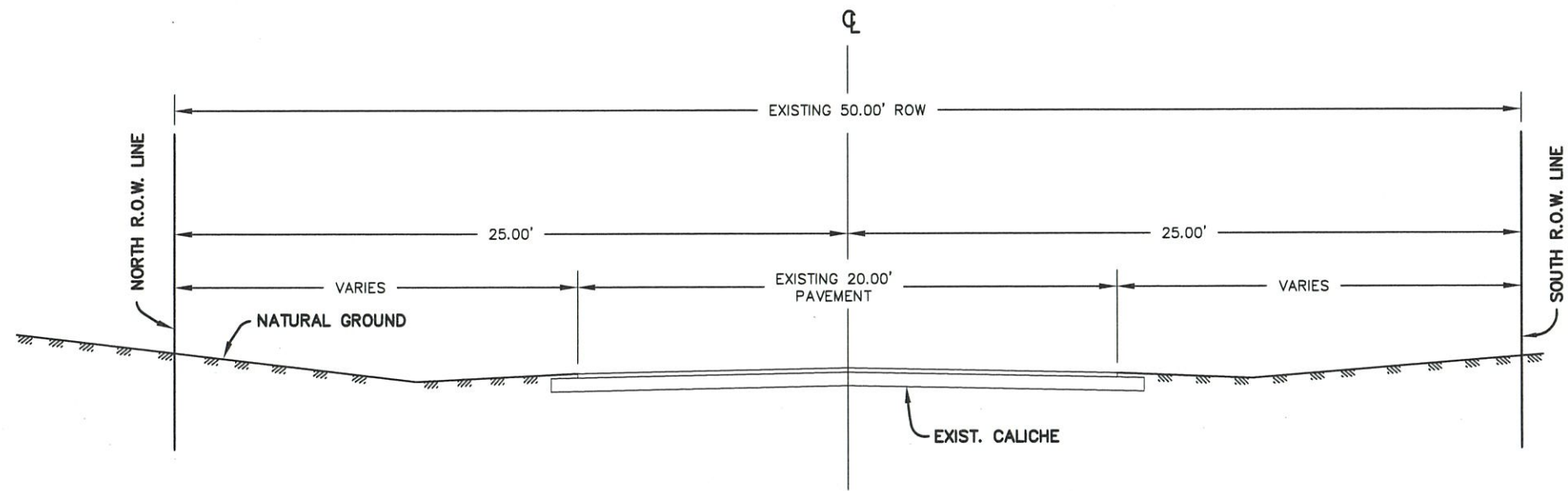
1. RELOCATION OF TREES: PALM TREE RELOCATED (DRAGGED) WITHIN 10' HAVE A HIGHER RECOVERY RATE. PALM TREES ARE TO BE RELOCATED WITHIN THE PROJECT AREA IF POSSIBLE. MOST CASE SENERIO, THE PALM TREES WILL BE RELOCATED FROM THE PROJECT SITE TO THE MEDIANS AT THE ENTRANCE OF THE CITY. THE FURTHEREST DISTANCE FOR RELOCATION WILL BE 3.4 MILES.
2. LANDSCAPE PLANTING SHALL BE IN COMPLIANCE WITH TXDOT ITEM 192, UNLESS OTHERWISE SPECIFIED.
3. PER THIS CONTRACT THE LANDSCAPE MATERIAL BID ITEM COSTS SHALL BE FOR MATERIAL, LABOR AND EQUIPMENT TO BE INSTALLED BY THE CONTRACTOR OR SUB-CONTRACTOR.
4. ANY PALM TREE THAT IS REMOVED SHALL BE REPLACED WITH A NEW PALM WITH MINIMUM 6' TRUNK HEIGHT.
5. MAINTENACE OF LANDSCAPING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR BEGINING ONCE THE INSTALLATION IS IN PLACE UP TO FINAL ACCEPTANCE. CITY WILL MAINTAIN LANDSCAPING AFTER FINAL ACCEPTANCE.

IDENTIFICATION KEY:

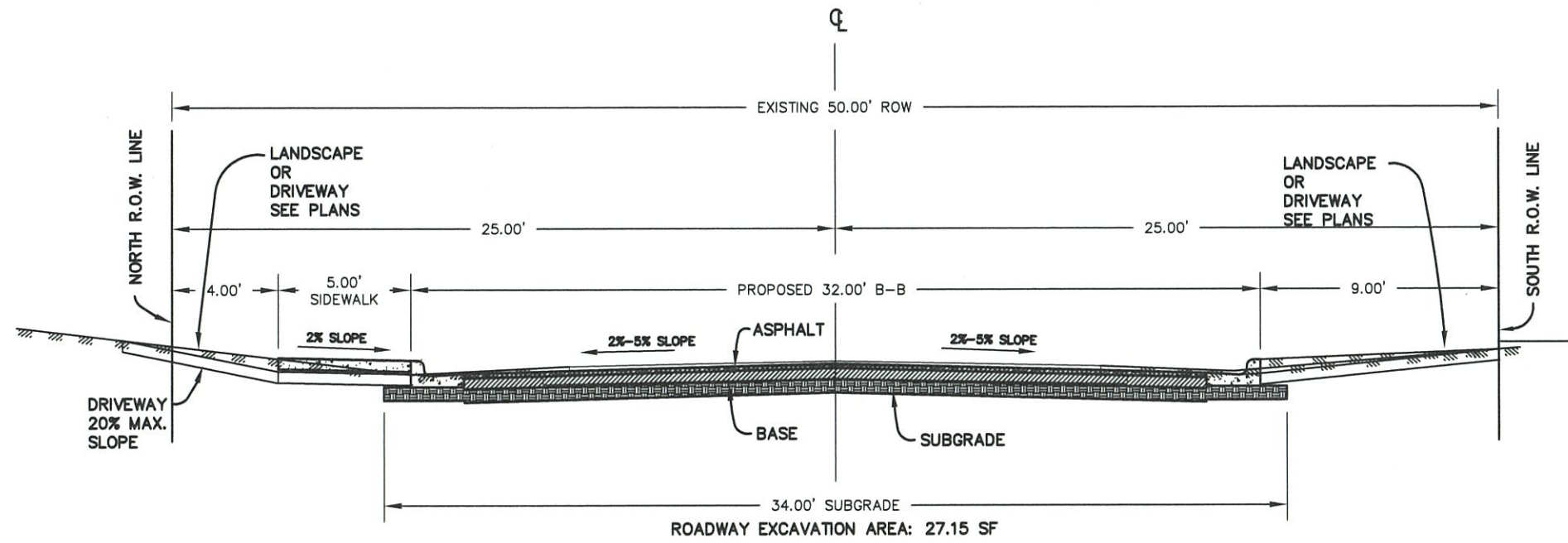
-  - DRIVEWAY (ASPHALT/CONCRETE). SEE DRIVEWAY SCHEDULE.
-  - INLET (CURB/GRATE). SEE INLET SCHEDULE.
-  - STORM DRAIN MANHOLE. SEE INLET SCHEDULE.
-  - STORM DRAIN PIPE. SEE STORM DRAIN PIPE SCHEDULE.
-  - SIDEWALK



2023 SIDE STREET IMPROVEMENTS PHASE 2	
PROJECT NOTES	
PUBLIC WORKS	
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DATE: 11/21/2023	OF 52
FILE: MORNINGSIDE	



EXISTING
50' ROW TYPICAL SECTION
 SCALE: 1/6" = 1'
 E. BAHAMA STREET

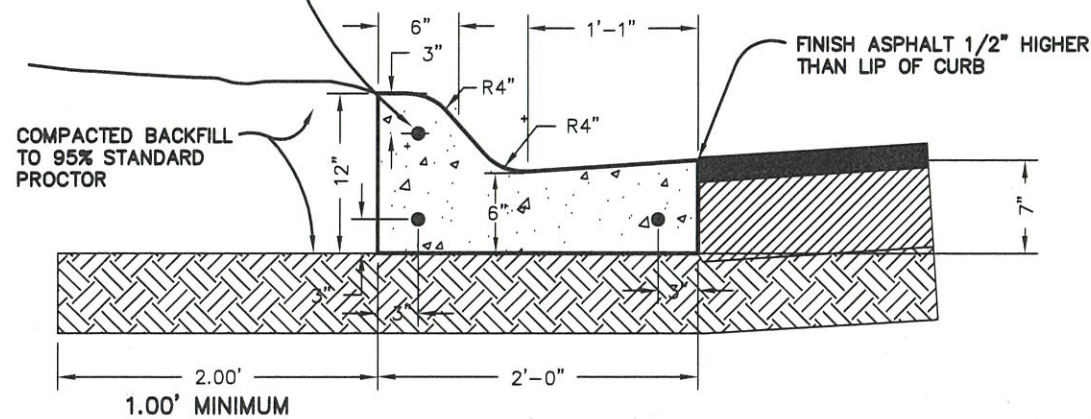


PROPOSED
50' ROW TYPICAL SECTION
 SCALE: 1/6" = 1'
 E. BAHAMA STREET



2023 SIDE STREETS IMPROVEMENTS, PHASE 2 E. BAHAMA STREET		
TYPICAL SECTIONS DETAILS		
	PUBLIC WORKS	
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SCALE: AS SHOWN	REVISIONS:	SHEET
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DATE: 11/21/2023		OF 52
FILE: E BAHAMA		

NO. 4 X 3' SMOOTH DOWELS
AT EXPANSION JOINTS (ONLY)



1 CURB & GUTTER DETAIL
SCALE: 1" = 1'

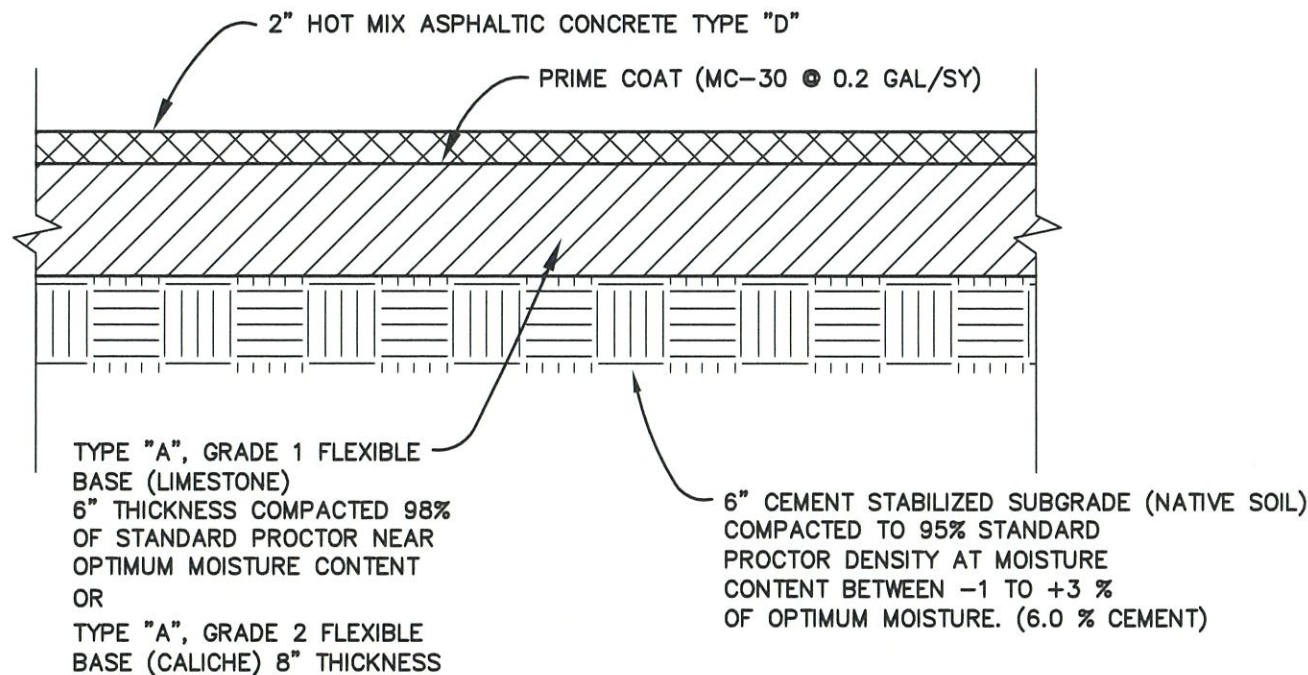
NOTE:

Expansion joints will be placed at curb returns, inlets, and end of each pour with intervals not to exceed 40 L.F. Joints will consist of 1/2" pre-molded expansion joint material with 3 - 3/8" x 1/2" dowels, one end greased and wrapped. Care must be taken that the dowels are straight and laid parallel with curb and no concrete "plugs" or other material be allowed through the dowel holes or expansion material that would prevent joint from operating as an expansion joint. Expansion joint material shall be pre-molded asphalt impregnated expansion joint material conforming to ASTM D 994 (NOT WOOD FIBER TYPE)

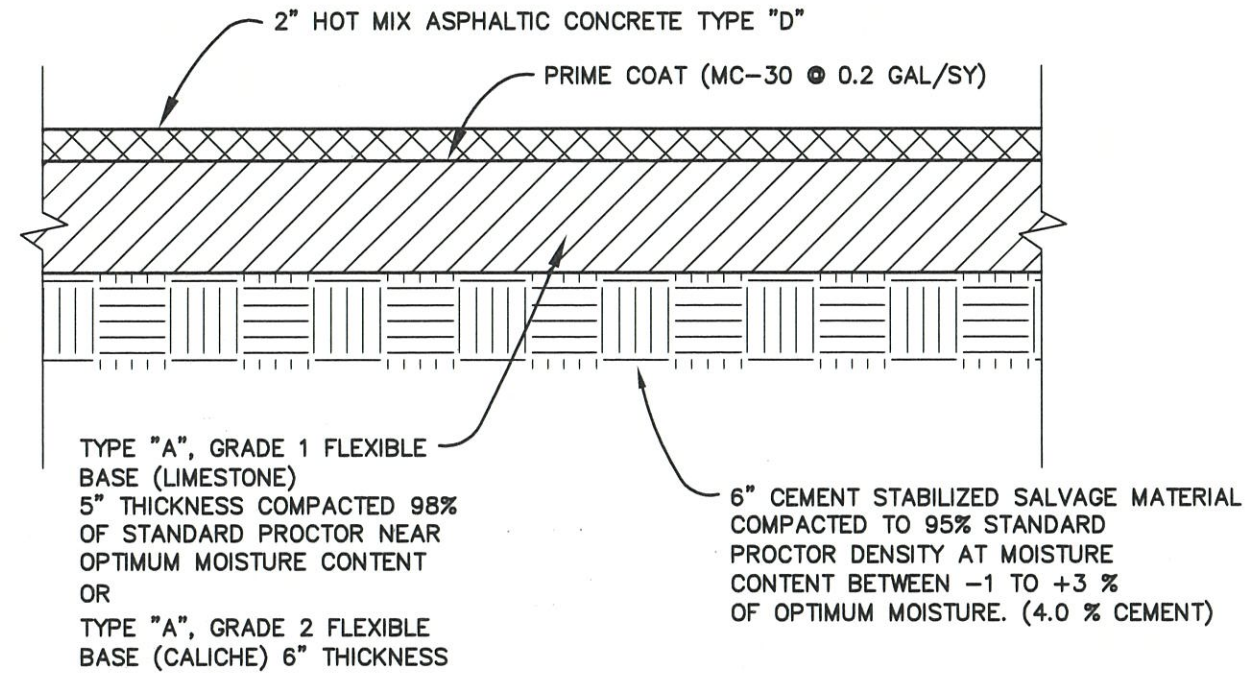
Dummy joints shall be 2" deep and placed at 10 ft. intervals.

Concrete shall be 3000 psi conforming to the requirement of "Reinforced Concrete Structures", when not shown on the drawings, and shall also contain 1.5 lbs. of fibermesh per cubic yard.

All exposed concrete surfaces, (sidewalks, concrete pavement, curb & gutter, etc.) shall be treated with curing compound, resin base ASTM C 309, Type 2 with pigmented tint of fugitive dye.



NEW SECTION



SALVAGE SECTION

2 ASPHALT PAVEMENT

2" THICK HOT MIX ASPHALTIC CONCRETE TYPE "D" MEETING THE REQUIREMENTS OF 1995 TXDOT SPECIFICATION ITEM 340 AND SPECIFIC CRITERIA FOR JOB MIXING.

HVEEM STABILITY SHALL BE AT LEAST 40.

COMPACTION STABILITY SHALL BE BETWEEN 91 AND 95 PERCENT OF MAXIMUM THEORETICAL DENSITY.

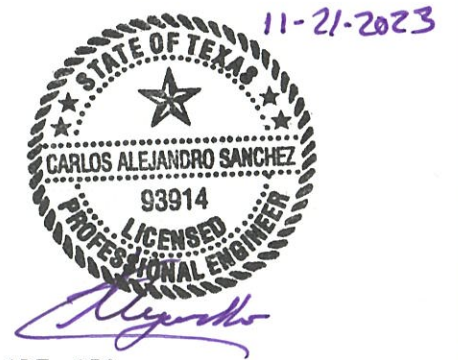
ASPHALTIC CEMENT CONTENT SHALL BE WITHIN TOLERANCE OF ±3 PERCENT OF SPECIFIC MIX DESIGN.

75 TO 85 PERCENT OF THE VOIDS OF THE MINERAL AGGREGATE SHALL BE FILLED WITH ASPHALTIC CEMENT.

SALVAGE COURSE:

THE PROPOSED STABILIZED SALVAGE COURSE SHALL INCLUDE THE EXISTING HMA (ACP), EXISTING BASE AND EXISTING SUBGRADE. THE PROPOSED SALVAGE COURSE SHALL BE SCARIFIED, REMOVED AND REPLACED. THE SALVAGE SHALL BE MIXED AND SPREAD EVENLY WITHIN THE SUBGRADE LIMITS BEFORE CEMENT IS ADDED.

THE EXISTING HMA IS ASSUMED TO BE 2", AND THE EXISTING BASE IS ASSUMED TO BE 6". A TOTAL OF 8" WITHIN THE LIMITS OF THE EXISTING PAVEMENT WILL BE SALVAGED FOR USE FOR THE SUBGRADE MATERIAL. AN ADDITIONAL 2" TO 5" OF EXISTING SUBGRADE SHALL BE REMOVED AND STOCKPILED FOR USE AS FILL. EXCAVATION WITHIN THE LIMITS OF THE SUBGRADE LIMITS (33') WILL BE SUBSIDIARY TO THE 6" SALVAGE MATERIAL UNLESS OTHERWISE NOTED.



ADT: 650
MINIMUM STRUCTURAL NUMBER: 2.64

2023 SIDE STREETS IMPROVEMENTS PHASE 2

PAVEMENT DETAILS

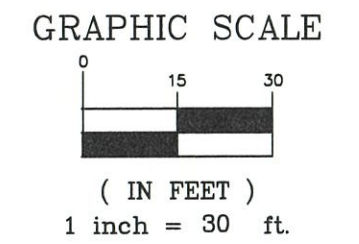
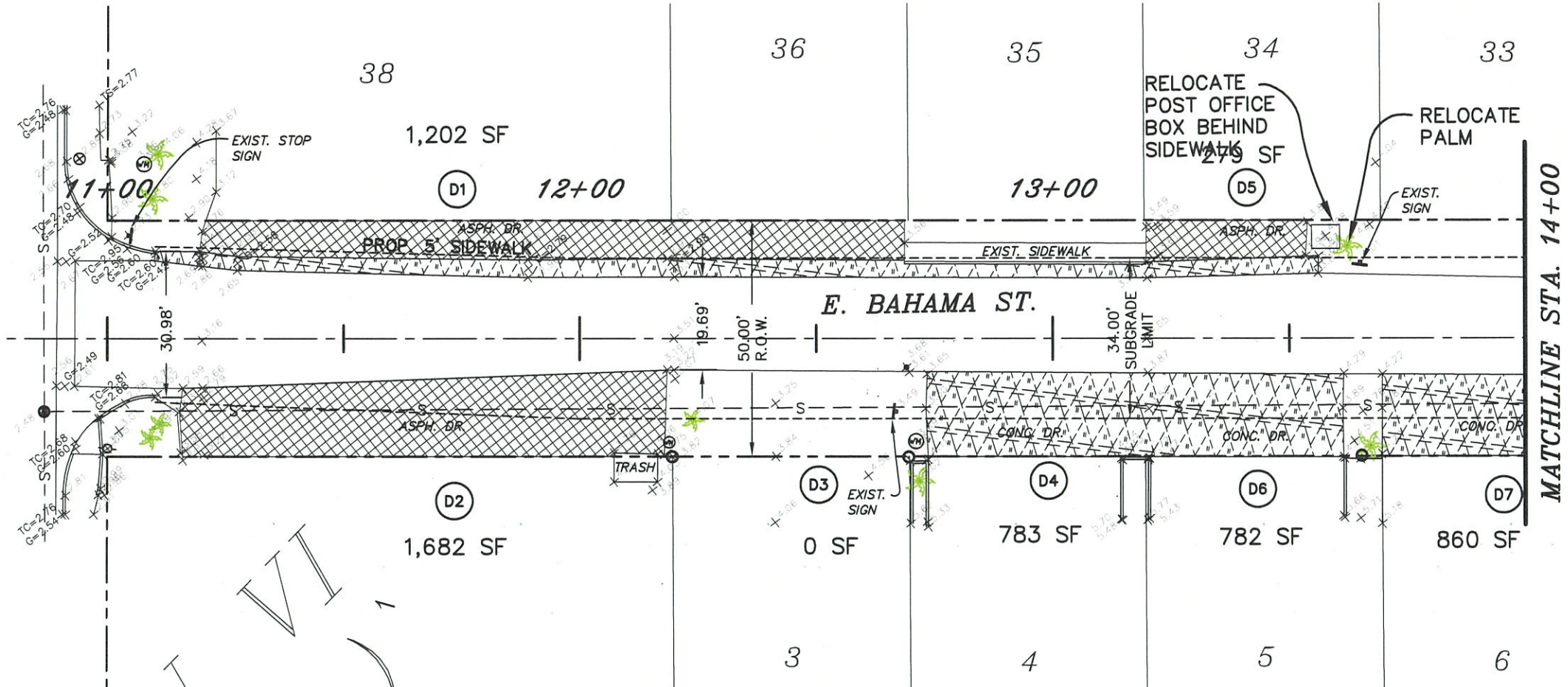
PUBLIC WORKS



4601 PADRE BLVD.
SOUTH PADRE ISLAND
TEXAS 78597
(956) 761-8158
Fax (956) 761-3898

SCALE: AS SHOWN	REVISIONS:	SHEET
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DATE: 11/21/2023		OF 52
FILE: E BAHAMA		

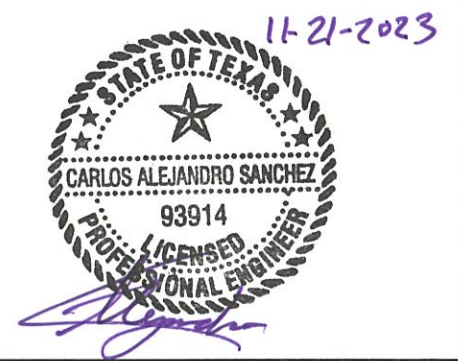
PADRE BLVD.
(100' R.O.W.)



LEGEND

- AC. REMOVAL
- CONC. REMOVAL

QUANTITY ESTIMATE		
DESCRIPTION	UNIT	QTY.
8" SALVAGE EXIST. PAVE	SY	2,475
EXCAVATION ROADWAY	CY	993
EMBANKMENT (FINAL)	CY	10
REMOVE SIDEWALK	SY	0
REMOVE ASPHALT DRIVE	SY	53
REMOVE CONCRETE DRIVE	SY	1,634
ADJUST WATER VALVES	EA	0
ADJUST WATER METER	EA	0
ADJUST CLEAN-OUTS	EA	1
RELOCATE CLEAN-OUTS	EA	0
REMOVE STREET SIGNS	EA	4



2023 SIDE STREET IMPROVEMENTS PHASE 2
E. BAHAMA STREET

REMOVAL PLAN
(STA. 10+50 TO STA. 14+00)

SOUTH PADRE ISLAND

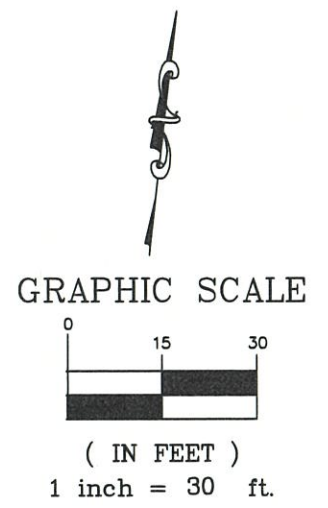
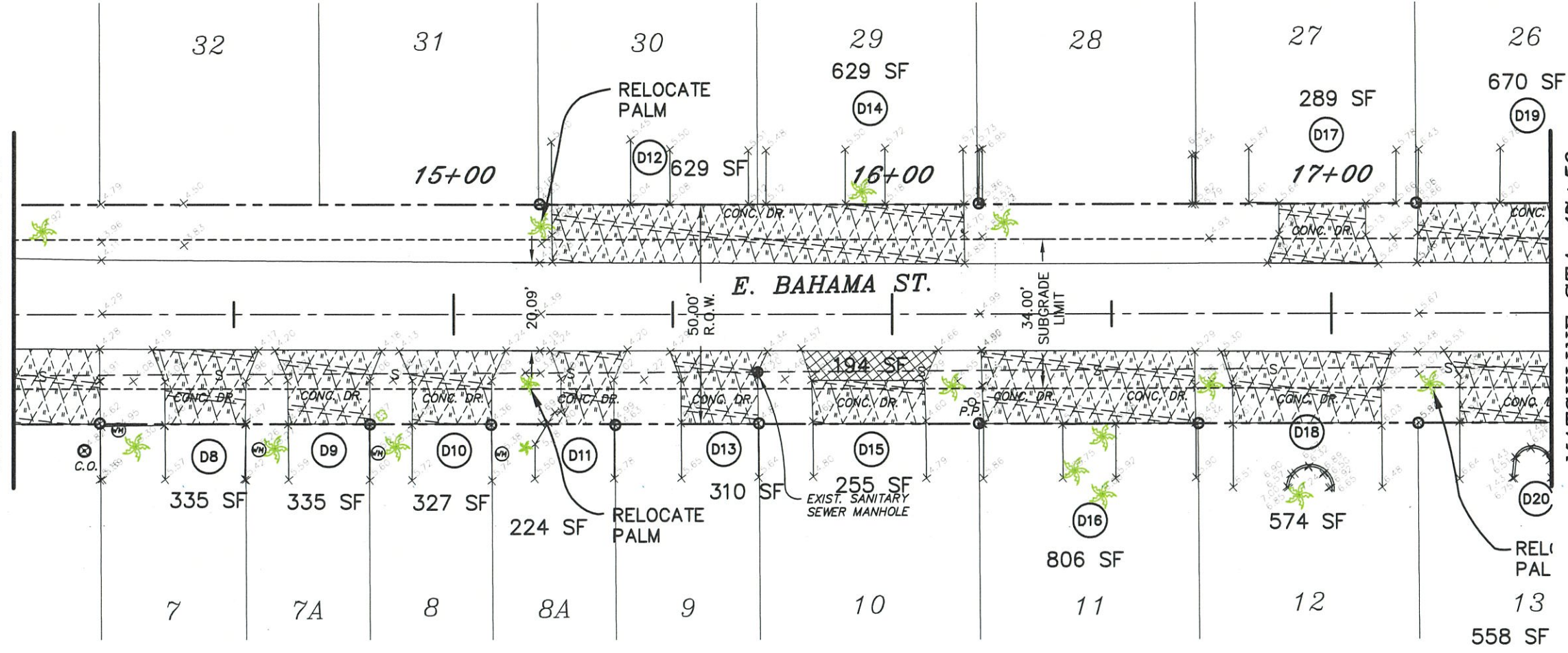
PUBLIC WORKS

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SCALE: 1"=40'	REVISIONS:	SHEET
DRAWN BY: CAS		5
DATE: 11/21/2023		OF 52
FILE: E BAHAMA		

MATCHLINE STA. 14+00

MATCHLINE STA. 17+50



LEGEND

- AC. REMOVAL
- CONC. REMOVAL

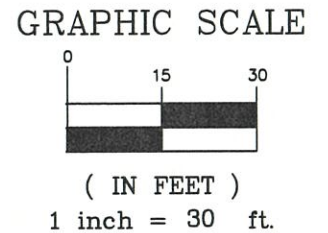
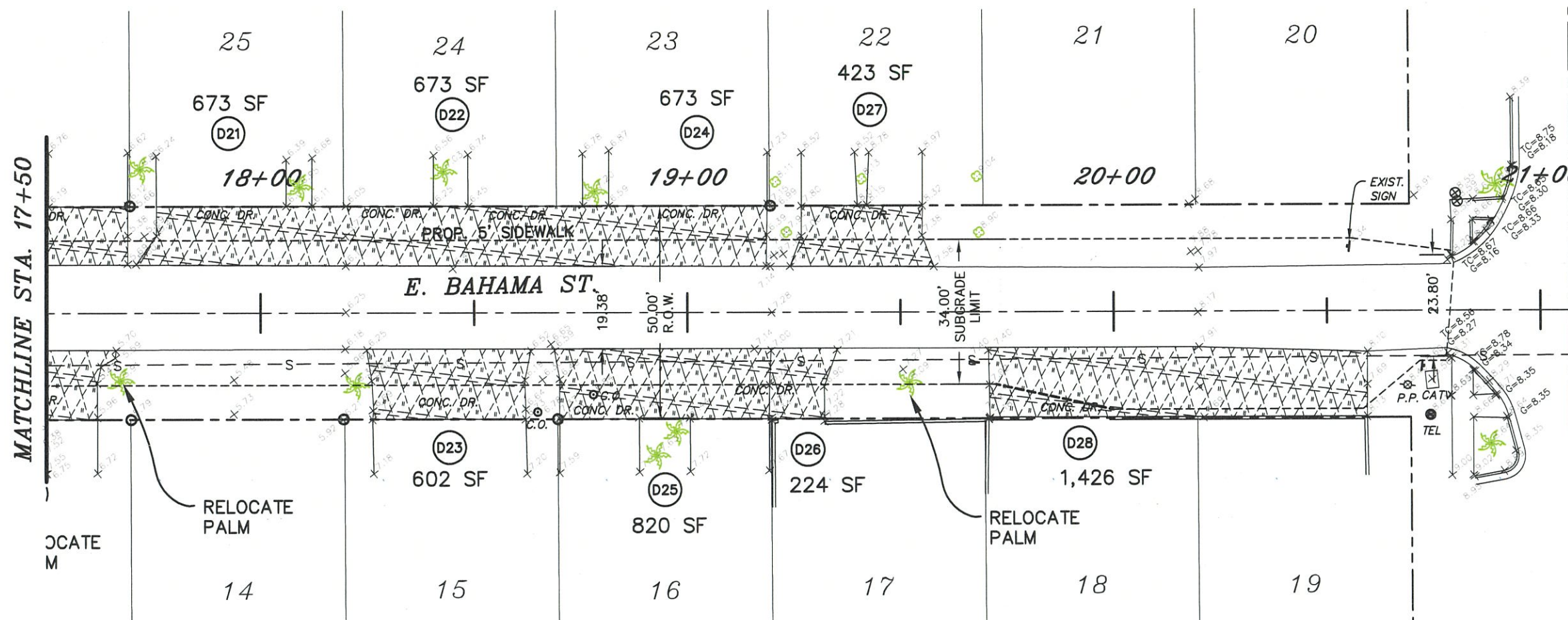


2023 SIDE STREET IMPROVEMENTS PHASE 2
E. BAHAMA STREET

REMOVAL PLAN
 (STA. 14+00 TO STA. 17+50)

PUBLIC WORKS
 4601 PADRE BLVD,
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 TEXAS 78597
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 Fax (956) 761-3898

SCALE: 1" = 40' REVISIONS: SHEET
 DRAWN BY: CAS 6
 DATE: 11/21/2023
 FILE: E BAHAMA OF 52



LEGEND

AC. REMOVAL

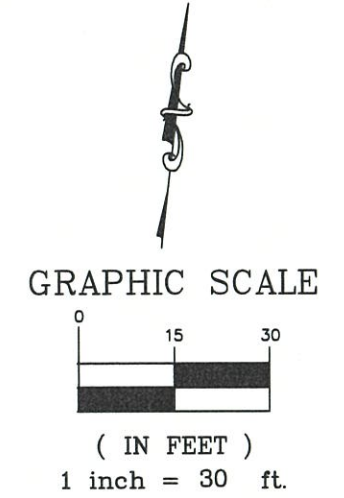
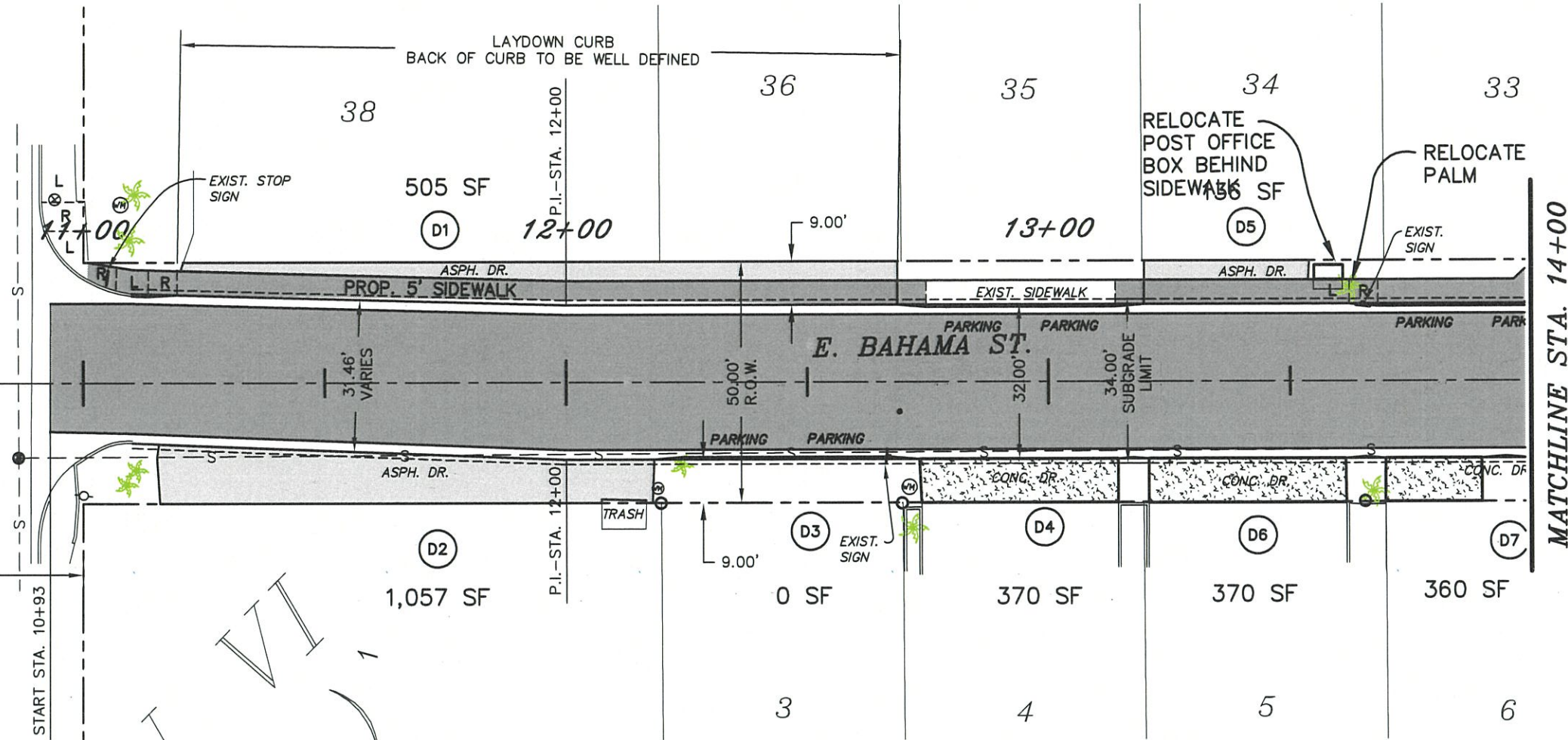
CONC. REMOVAL

GULF BLVD.
(75' R.O.W.)



2023 SIDE STREET IMPROVEMENTS PHASE 2 E. BAHAMA STREET		
REMOVAL PLAN (STA. 17+50 TO STA. 21+00)		
	PUBLIC WORKS	
	4801 PADRE BLVD. SOUTH PADRE ISLAND TEXAS 78597 (956) 761-8158 Fax (956) 761-3898	
SCALE: 1"=40'	REVISIONS:	SHEET
DRAWN BY: CAS		7
DATE: 11/21/2023		OF 52
FILE: E BAHAMA		

PADRE BLVD.
(100' R.O.W.)

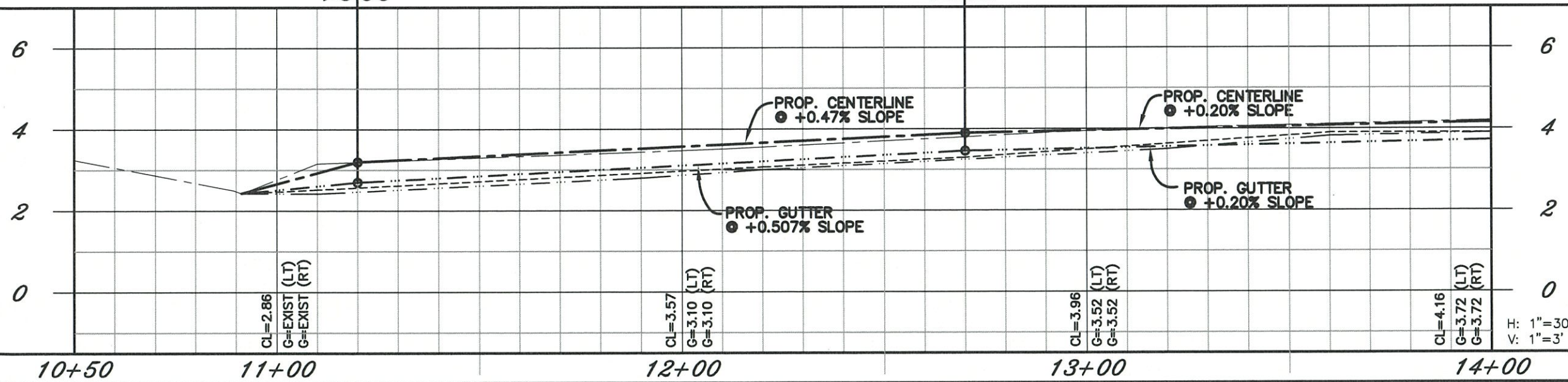


- EXIST. CENTERLINE
- EXIST. LEFT SWALE
- EXIST. RIGHT SWALE
- PROP. CENTERLINE
- PROP. LEFT GUTTER
- PROP. RIGHT GUTTER
- ⊙ EXIST. WATER METER

QUANTITY ESTIMATE		
DESCRIPTION	UNIT	QTY.
CURB & GUTTER	LF	578
VALLEY GUTTER	SY	0
SIDEWALK	SY	135
ASPHALT DRIVEWAY	SY	189
CONCRETE DRIVEWAY	SY	123
STAMPED SPI LOGO	EA	2

VPI STA. 11+20
CL=3.20
G=2.70 (LT)
G=2.70 (RT)

VPI STA. 12+70
CL=3.90
G=3.46 (LT)
G=3.46 (RT)



2023 SIDE STREET IMPROVEMENTS PHASE 2
E. BAHAMA STREET

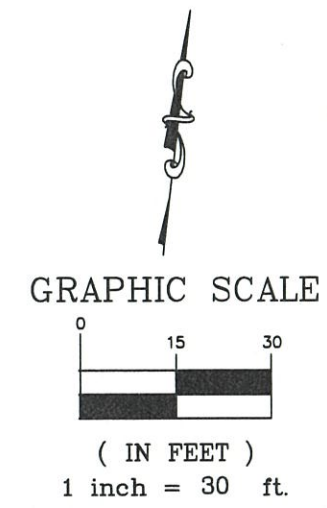
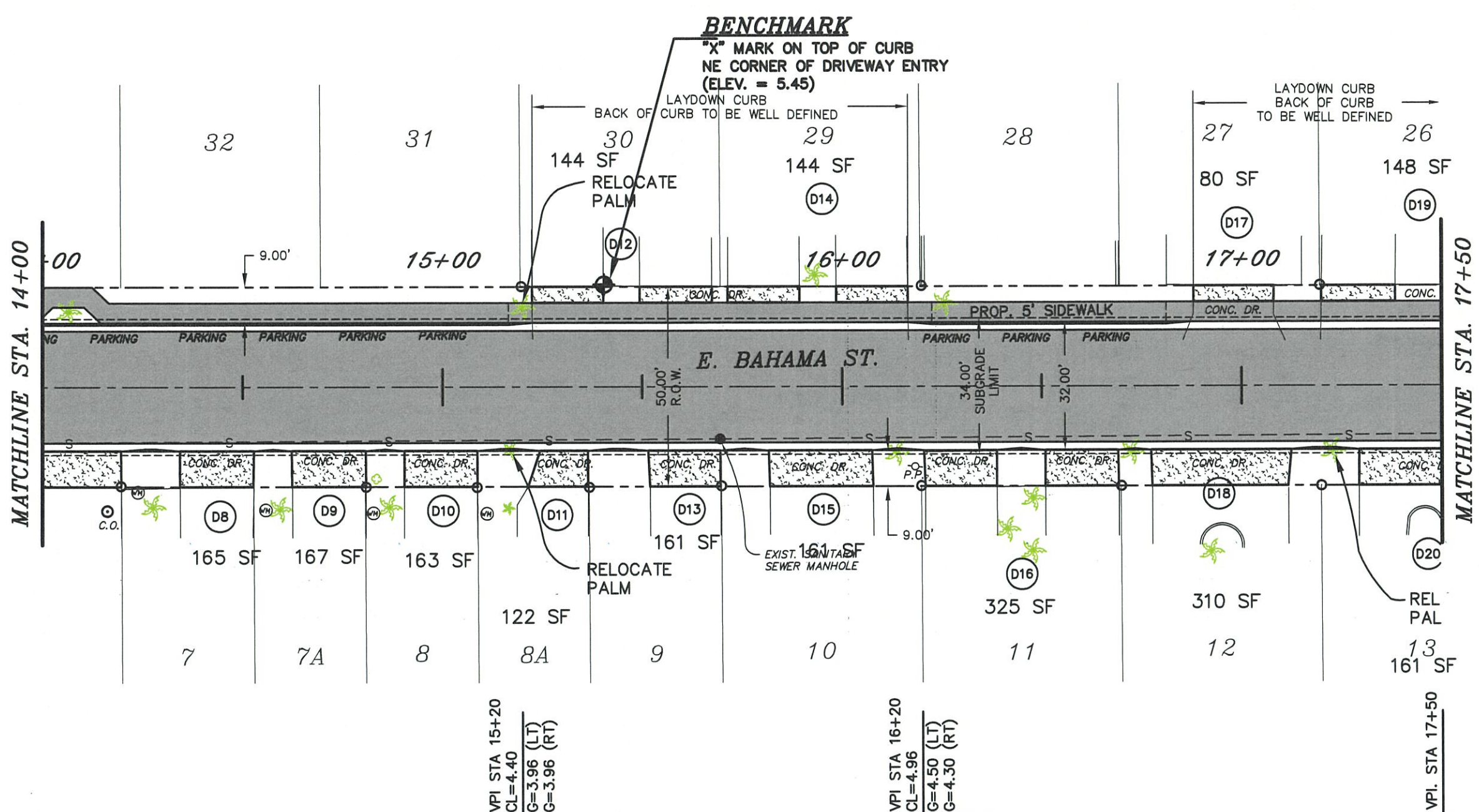
PLAN & PROFILE
(STA. 10+50 TO STA. 14+00)

PUBLIC WORKS
4601 PADRE BLVD,
SOUTH PADRE ISLAND
TEXAS 78597
(956) 761-8158
Fax (956) 761-3898

SCALE: 1"=40'	REVISIONS:	SHEET
DRAWN BY: CAS		8
DATE: 11/21/2023		OF 52
FILE: E BAHAMA		

BENCHMARK

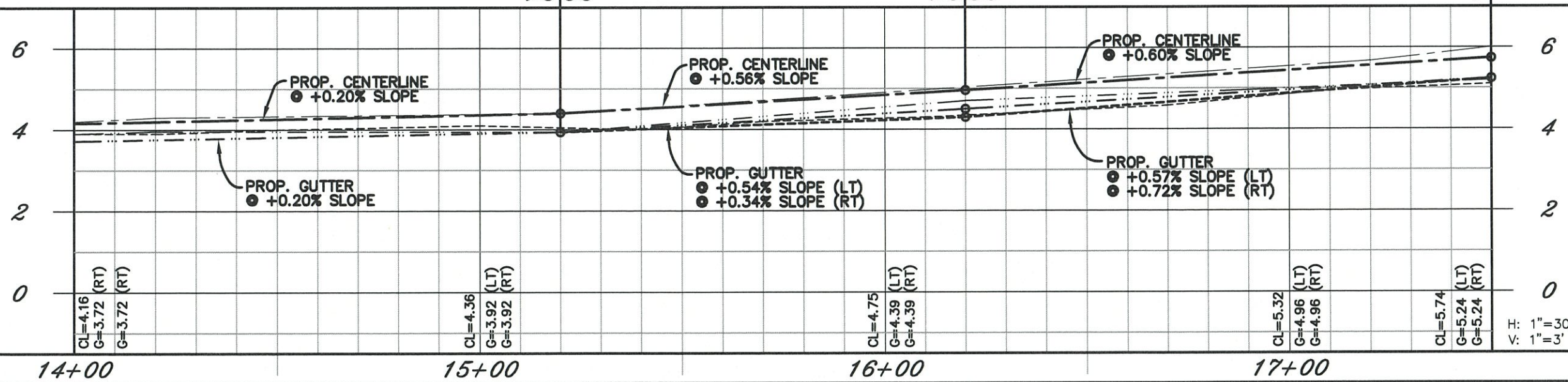
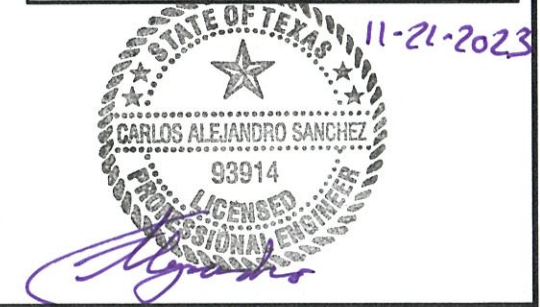
"X" MARK ON TOP OF CURB
NE CORNER OF DRIVEWAY ENTRY
(ELEV. = 5.45)



LEGEND

- EXIST. CENTERLINE
- EXIST. LEFT SWALE
- EXIST. RIGHT SWALE
- PROP. CENTERLINE
- PROP. LEFT GUTTER
- PROP. RIGHT GUTTER
- ⊙ EXIST. WATER METER

QUANTITY ESTIMATE		
DESCRIPTION	UNIT	QTY.
CURB & GUTTER	LF	700
VALLEY GUTTER	SY	0
SIDEWALK	SY	195
ASPHALT DRIVEWAY	SY	0
CONCRETE DRIVEWAY	SY	273
STAMPED SPI LOGO	EA	0



2023 SIDE STREET IMPROVEMENTS PHASE 2
E. BAHAMA STREET

PLAN & PROFILE
(STA. 14+00 TO STA. 17+50)

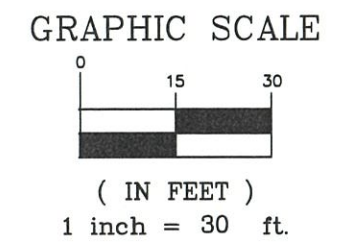
PUBLIC WORKS

South Padre Island

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SOUTH PADRE ISLAND
TEXAS 78597
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SCALE: 1"=40'	REVISIONS:	SHEET 9 OF 52
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DATE: 11/21/2023		
FILE: E BAHAMA		

BENCHMARK
TOP NUT ON FIRE HYDRANT
NE CORNER BAHAMA AND GULF
(ELEV. = 11.21)



LEGEND

- EXIST. CENTERLINE
- EXIST. LEFT SWALE
- EXIST. RIGHT SWALE
- PROP. CENTERLINE
- PROP. LEFT GUTTER
- PROP. RIGHT GUTTER
- ⊕ EXIST. WATER METER

QUANTITY ESTIMATE		
DESCRIPTION	UNIT	QTY.
CURB & GUTTER	LF	660
VALLEY GUTTER	SY	0
SIDEWALK	SY	183
ASPHALT DRIVEWAY	SY	0
CONCRETE DRIVEWAY	SY	179
STAMPED SPI LOGO	EA	2



2023 SIDE STREET IMPROVEMENTS PHASE 2
E. BAHAMA STREET

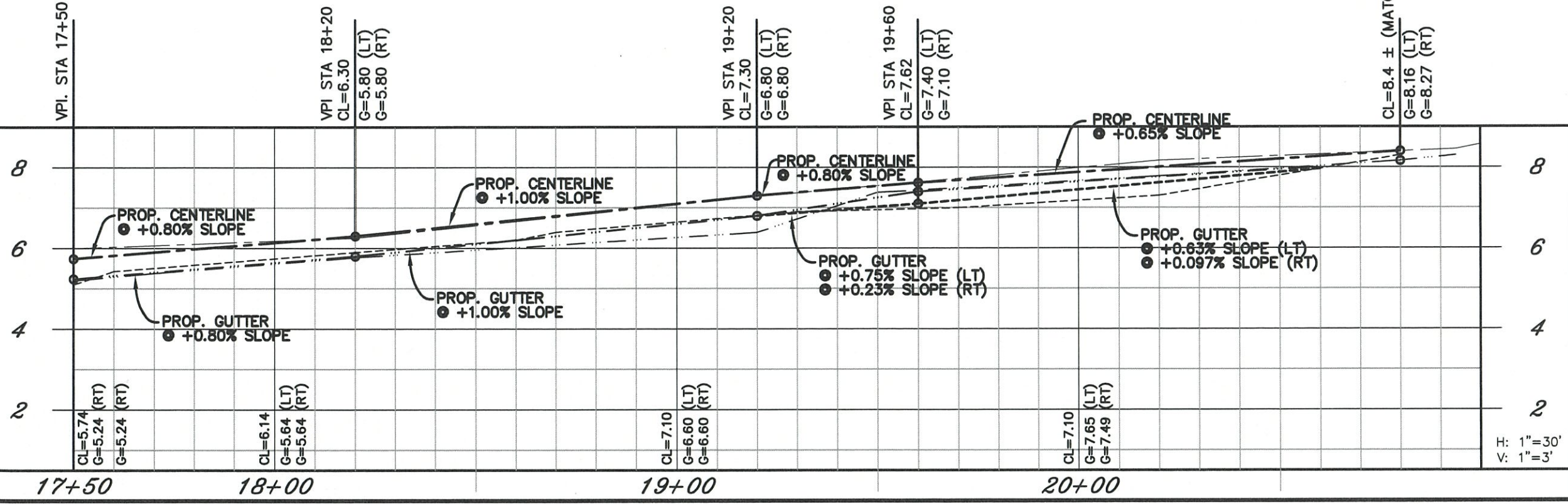
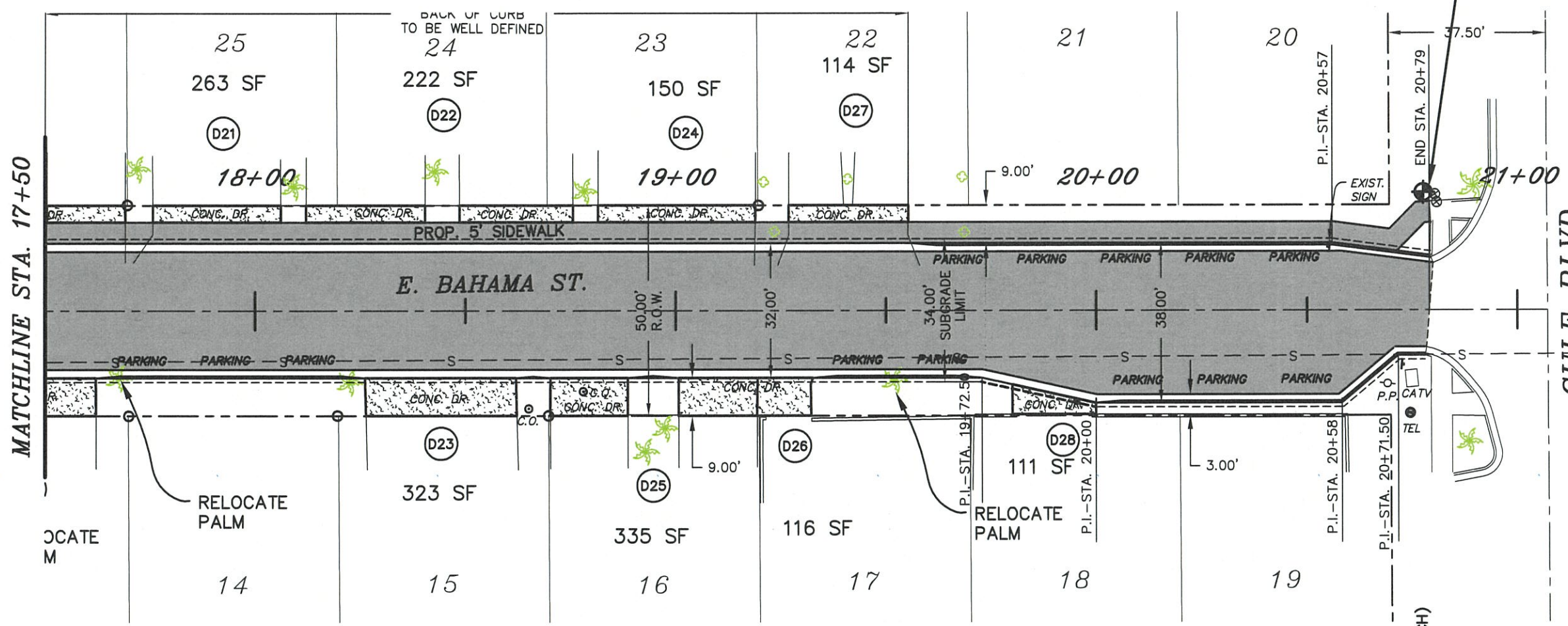
PLAN & PROFILE
(STA. 14+00 TO STA. 17+50)

PUBLIC WORKS

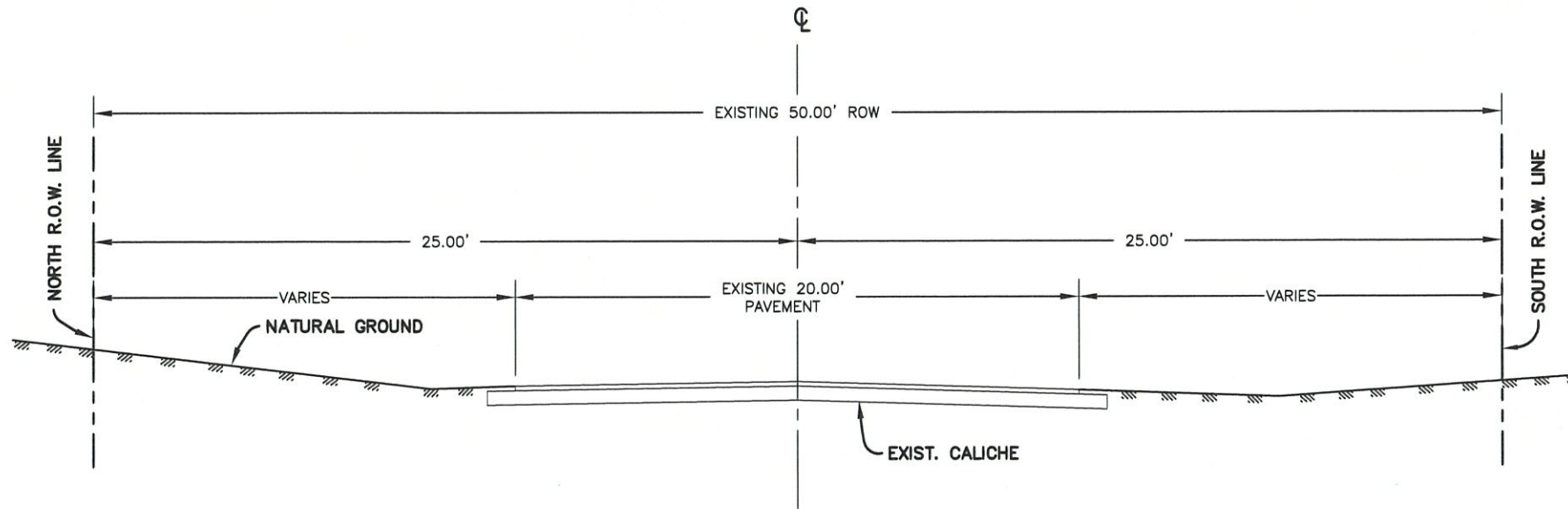
South Padre Island

4601 PADRE BLVD,
SOUTH PADRE ISLAND
TEXAS 78597
(956) 761-8158
Fax (956) 761-3898

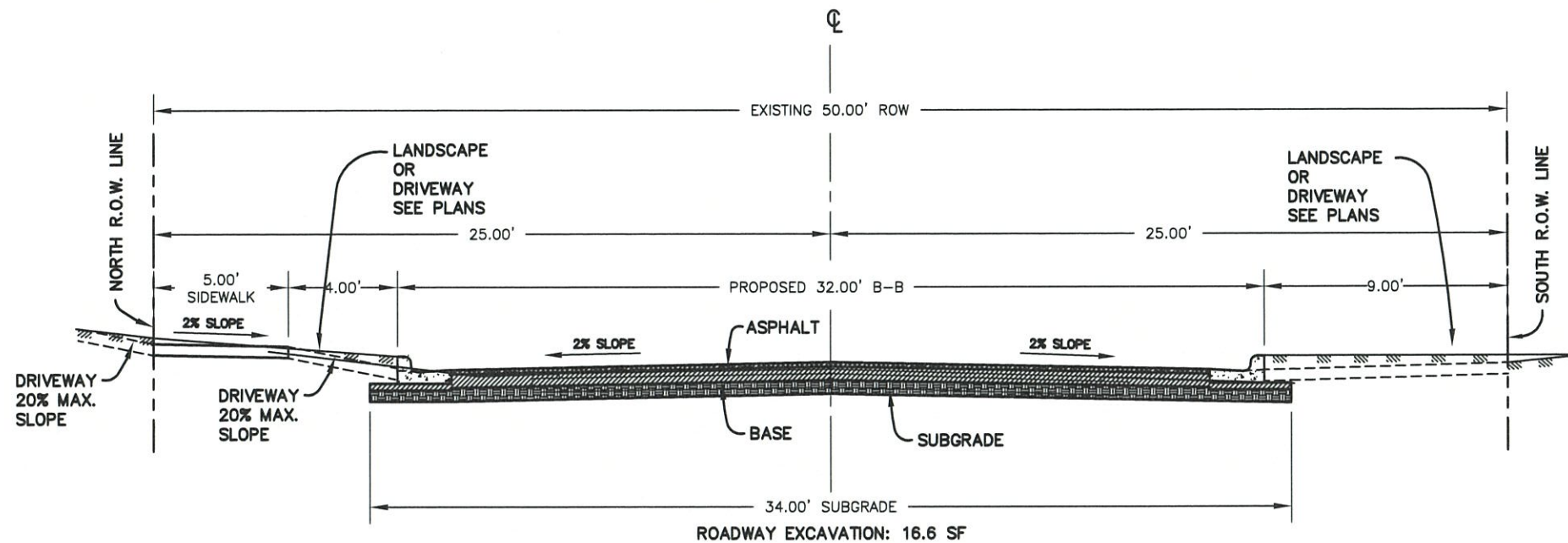
SCALE: 1"=40'	REVISIONS:	SHEET 10 OF 52
DRAWN BY: CAS		
DATE: 11/21/2023		
FILE: E BAHAMA		



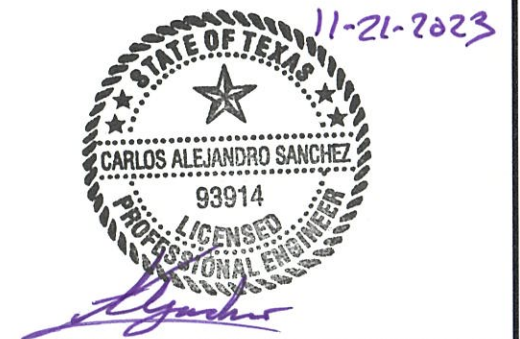
H: 1"=30'
V: 1"=3'



EXISTING
50' ROW TYPICAL SECTION
 SCALE: 1/6" = 1'
 RETAMA STREET

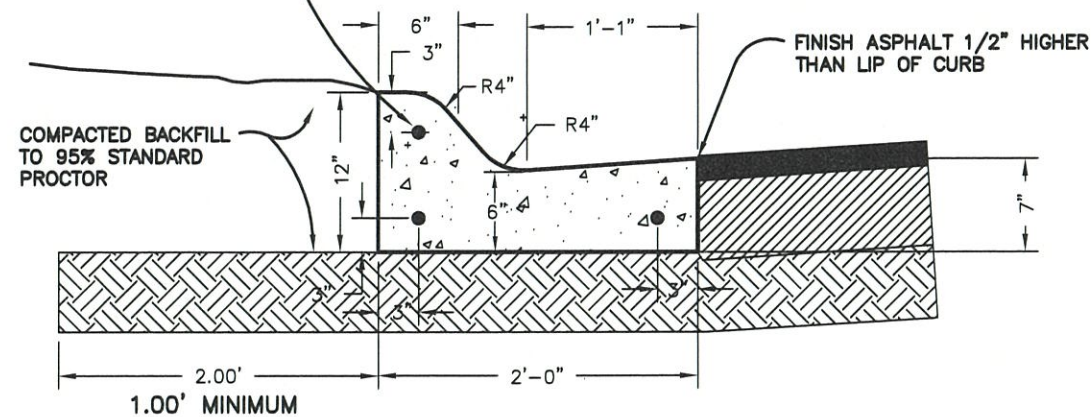


PROPOSED
50' ROW TYPICAL SECTION
 SCALE: 1/6" = 1'
 RETAMA STREET



2023 SIDE STREET IMPROVEMENTS PHASE 2 E. RETAMA STREET		
TYPICAL SECTION		
	PUBLIC WORKS	
	4601 PADRE BLVD, SOUTH PADRE ISLAND TEXAS 78597 (956) 761-8158 Fax (956) 761-3898	
SCALE: AS SHOWN	REVISIONS:	SHEET
DRAWN BY: CAS		11
DATE: 11/21/2023		OF 52
FILE: LAGUNABLVD-DESIGN4		

NO. 4 X 3' SMOOTH DOWELS
AT EXPANSION JOINTS (ONLY)



1 CURB & GUTTER DETAIL
SCALE: 1" = 1'

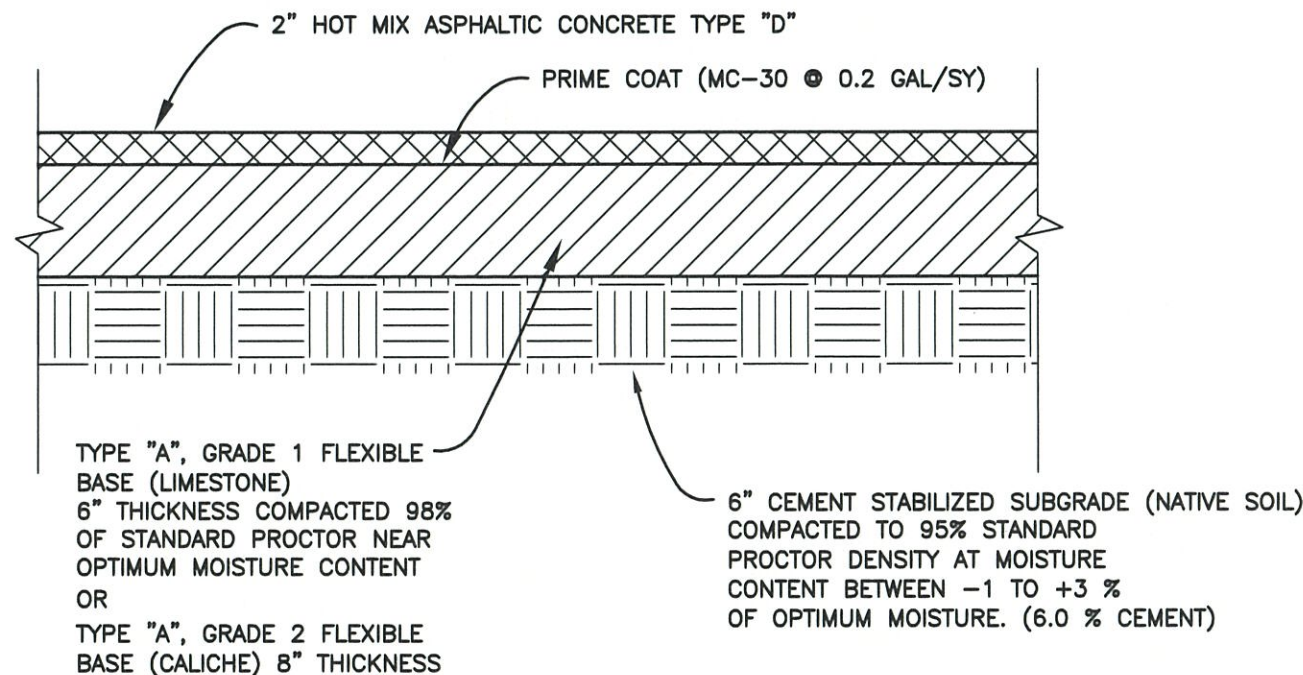
NOTE:

Expansion joints will be placed at curb returns, inlets, and end of each pour with intervals not to exceed 40 L.F. Joints will consist of 1/2" pre-molded expansion joint material with 3 - 36" x 1/2" dowels, one end greased and wrapped. Care must be taken that the dowels are straight and laid parallel with curb and no concrete "plugs" or other material be allowed through the dowel holes or expansion material that would prevent joint from operating as an expansion joint. Expansion joint material shall be pre-molded asphalt impregnated expansion joint material conforming to ASTM D 994 (NOT WOOD FIBER TYPE)

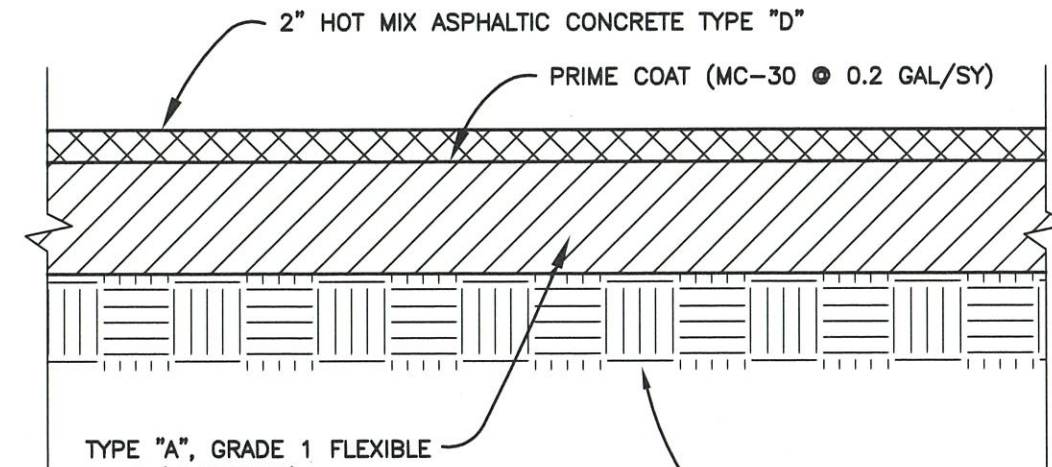
Dummy joints shall be 2" deep and placed at 10 ft. intervals.

Concrete shall be 3000 psi conforming to the requirement of "Reinforced Concrete Structures", when not shown on the drawings, and shall also contain 1.5 lbs. of fibermesh per cubic yard.

All exposed concrete surfaces, (sidewalks, concrete pavement, curb & gutter, etc.) shall be treated with curing compound, resin base ASTM C 309, Type 2 with pigmented tint of fugitive dye.



NEW SECTION



TYPE "A", GRADE 1 FLEXIBLE
BASE (LIMESTONE)
5" THICKNESS COMPACTED 98%
OF STANDARD PROCTOR NEAR
OPTIMUM MOISTURE CONTENT
OR
TYPE "A", GRADE 2 FLEXIBLE
BASE (CALICHE) 6" THICKNESS

6" CEMENT STABILIZED SALVAGE MATERIAL
COMPACTED TO 95% STANDARD
PROCTOR DENSITY AT MOISTURE
CONTENT BETWEEN -1 TO +3 %
OF OPTIMUM MOISTURE. (4.0 % CEMENT)

SALVAGE SECTION

2 ASPHALT PAVEMENT

2" THICK HOT MIX ASPHALTIC CONCRETE TYPE "D" MEETING THE REQUIREMENTS OF 1995 TXDOT SPECIFICATION ITEM 340 AND SPECIFIC CRITERIA FOR JOB MIXING.

HVEEM STABILITY SHALL BE AT LEAST 40.

COMPACTION STABILITY SHALL BE BETWEEN 91 AND 95 PERCENT OF MAXIMUM THEORETICAL DENSITY.

ASPHALTIC CEMENT CONTENT SHALL BE WITHIN TOLERANCE OF ±3 PERCENT OF SPECIFIC MIX DESIGN.

75 TO 85 PERCENT OF THE VOIDS OF THE MINERAL AGGREGATE SHALL BE FILLED WITH ASPHALTIC CEMENT.

SALVAGE COURSE:

THE PROPOSED STABILIZED SALVAGE COURSE SHALL INCLUDE THE EXISTING HMAC (ACP), EXISTING BASE AND EXISTING SUBGRADE. THE PROPOSED SALVAGE COURSE SHALL BE SCARIFIED, REMOVED AND REPLACED. THE SALVAGE SHALL BE MIXED AND SPREAD EVENLY WITHIN THE SUBGRADE LIMITS BEFORE CEMENT IS ADDED.

THE EXISTING HMAC IS ASSUMED TO BE 2", AND THE EXISTING BASE IS ASSUMED TO BE 6". A TOTAL OF 8" WITHIN THE LIMITS OF THE EXISTING PAVEMENT WILL BE SALVAGED FOR USE FOR THE SUBGRADE MATERIAL. AN ADDITIONAL 2" TO 5" OF EXISTING SUBGRADE SHALL BE REMOVED AND STOCKPILED FOR USED AS FILL. EXCAVATION WITHIN THE LIMITS OF THE SUBGRADE LIMITS (33') WILL BE SUBSIDIARY TO THE 6" SALVAGE MATERIAL UNLESS OTHERWISE NOTED.

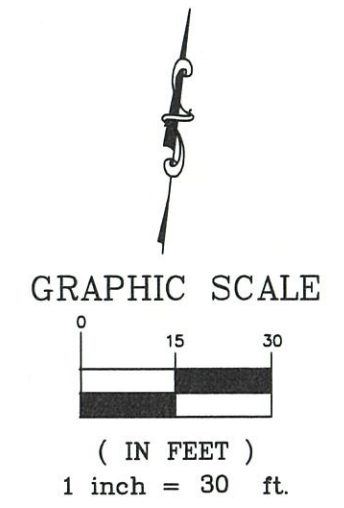
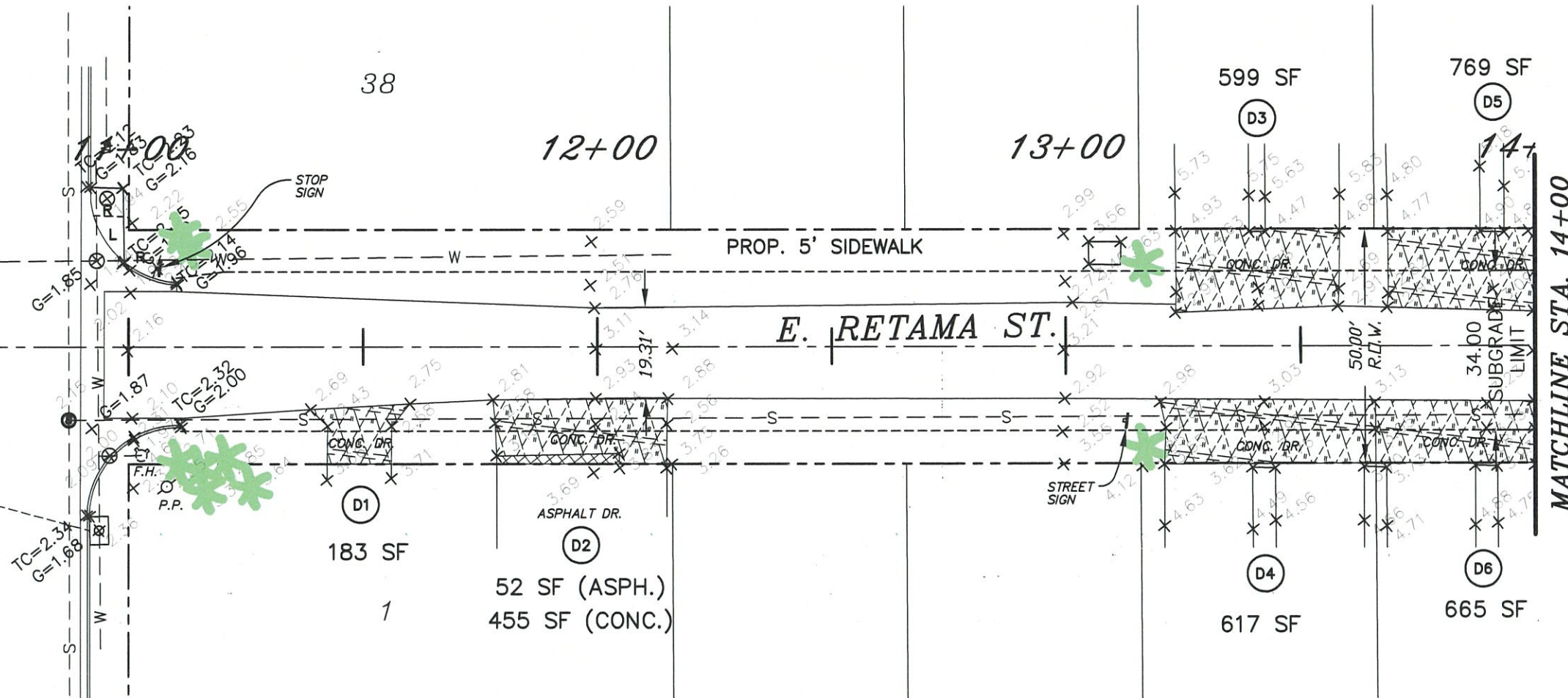
11-21-2023

ADT: 474
MINIMUM STRUCTURAL NUMBER: 2.64

2023 SIDE STREETS IMPROVEMENTS	
PAVEMENT DETAILS	
PUBLIC WORKS	
4601 PADRE BLVD, SOUTH PADRE ISLAND, TEXAS 78597 (956) 761-8158 Fax (956) 761-3898	
SCALE: AS SHOWN	REVISIONS:
DRAWN BY: CAS	SHEET
DATE: 11/21/2023	12
FILE: LAGUNABLDV-DESIGN4	OF 52

MATCHLINE STA. 10+50

PADRE BLVD.



ESTIMATED QUANTITIES		
DESCRIPTION	UNIT	QTY.
8" SALVAGE EXIST. PAVE	SY	2,145
EXCAVATION ROADWAY	CY	600
EMBANKMENT (FINAL)	CY	170
REMOVE SIDEWALK	SY	-
REMOVE ASPHALT DRIVE	SY	201
REMOVE CONCRETE DRIVE	SY	1,380
ADJUST WATER VALVES	EA	1
ADJUST WATER METER	EA	2
ADJUST CLEAN-OUTS	EA	1
RELOCATE CLEAN-OUTS	EA	0



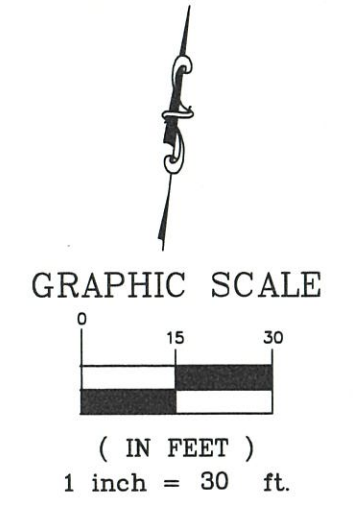
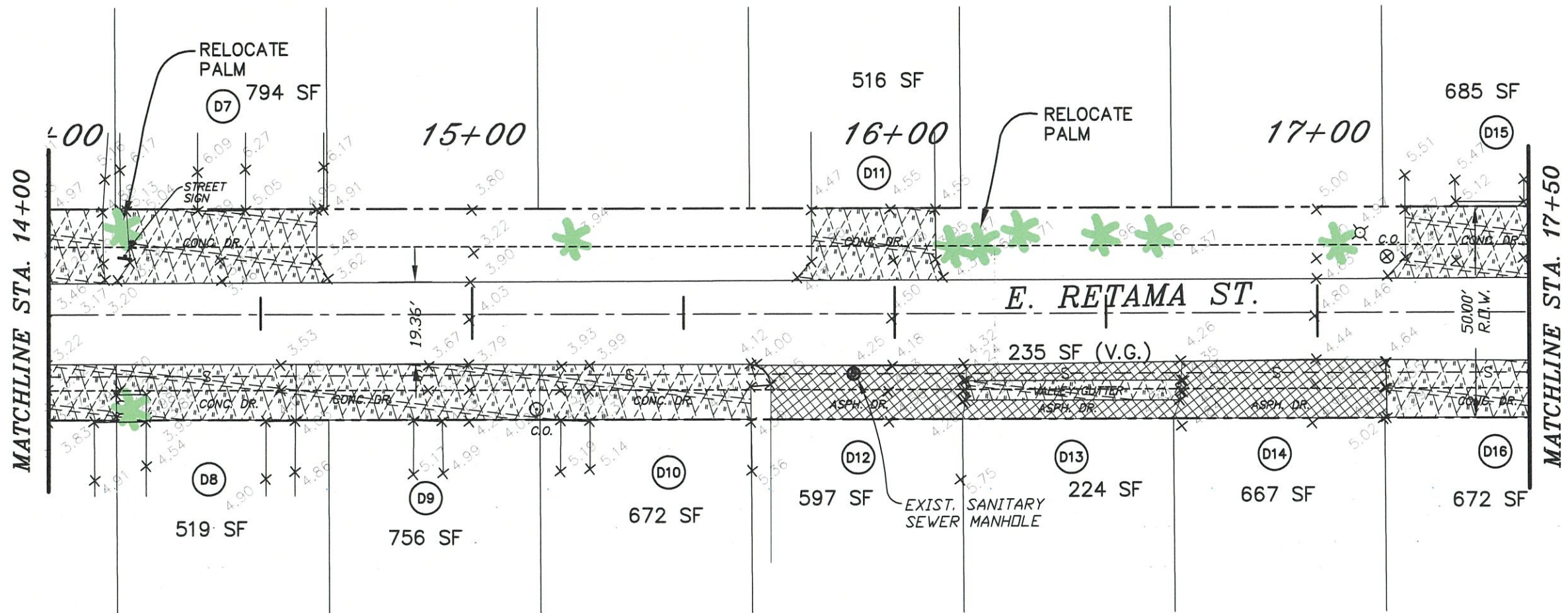
2023 SIDE STREET IMPROVEMENTS PHASE 2
E. RETAMA STREET

REMOVAL PLAN
 STA. 10+50 TO 14+00

PUBLIC WORKS
 4601 PADRE BLVD,
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 Fax (956) 761-3898

SCALE: 1"=30' REVISIONS: SHEET
 DRAWN BY: CAS
 DATE: 11/21/2023
 FILE: MORNINGSIDE

13
 OF 52



2023 SIDE STREET IMPROVEMENTS PHASE 2
E. RETAMA STREET

REMOVAL PLAN
STA. 14+00 TO 17+50

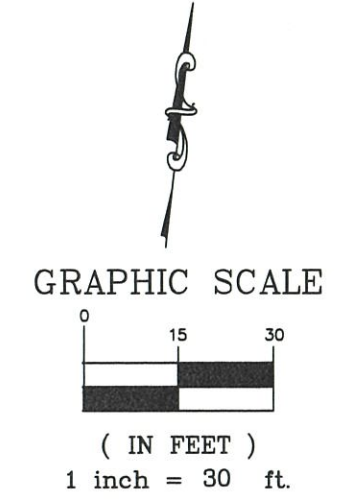
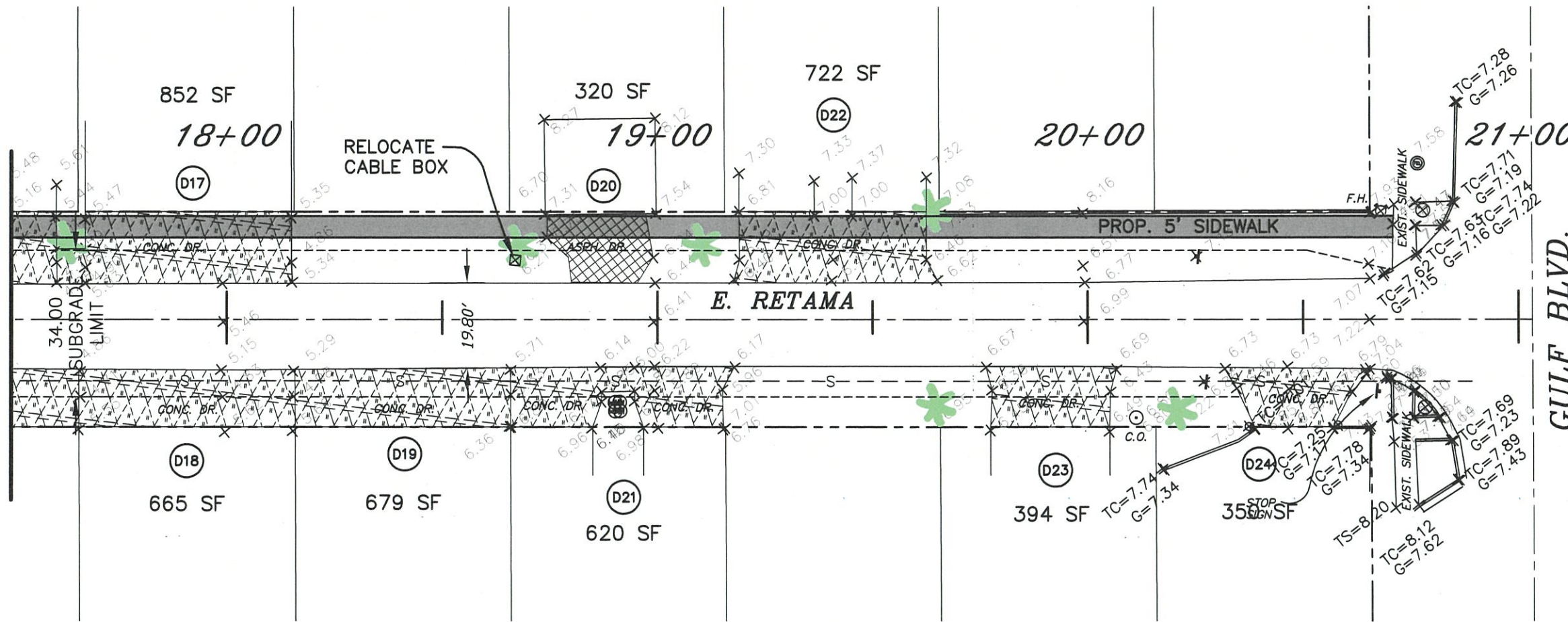


PUBLIC WORKS

4601 PADRE BLVD,
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(956) 761-8158
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SCALE: 1"=30'	REVISIONS:	SHEET
DRAWN BY: CAS		14
DATE: 11/21/2023		OF 52
FILE: MORNINGSIDE		

MATCHLINE STA. 17+50



11-21-2023

STATE OF TEXAS
 CARLOS ALEJANDRO SANCHEZ
 93914
 LICENSED PROFESSIONAL ENGINEER

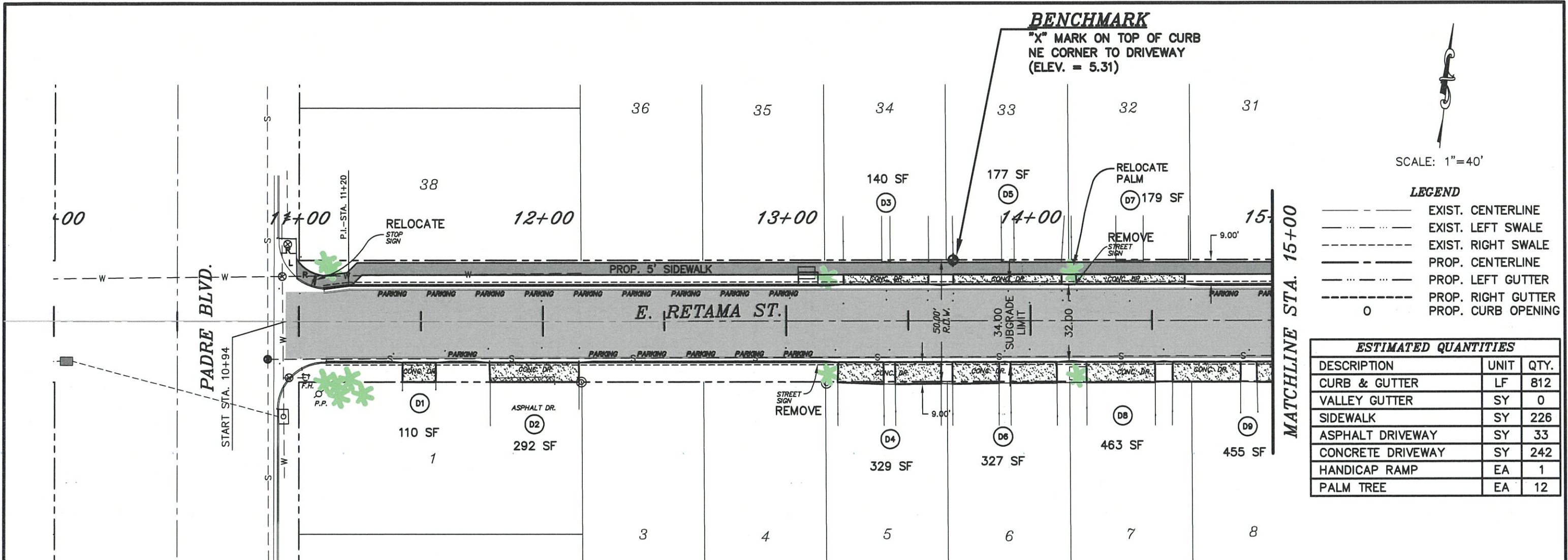
**2023 SIDE STREET IMPROVEMENTS PHASE 2
 E. RETAMA STREET**

**REMOVAL PLAN
 STA. 17+50 TO 21+00**



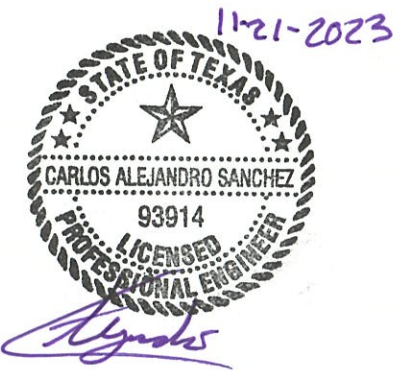
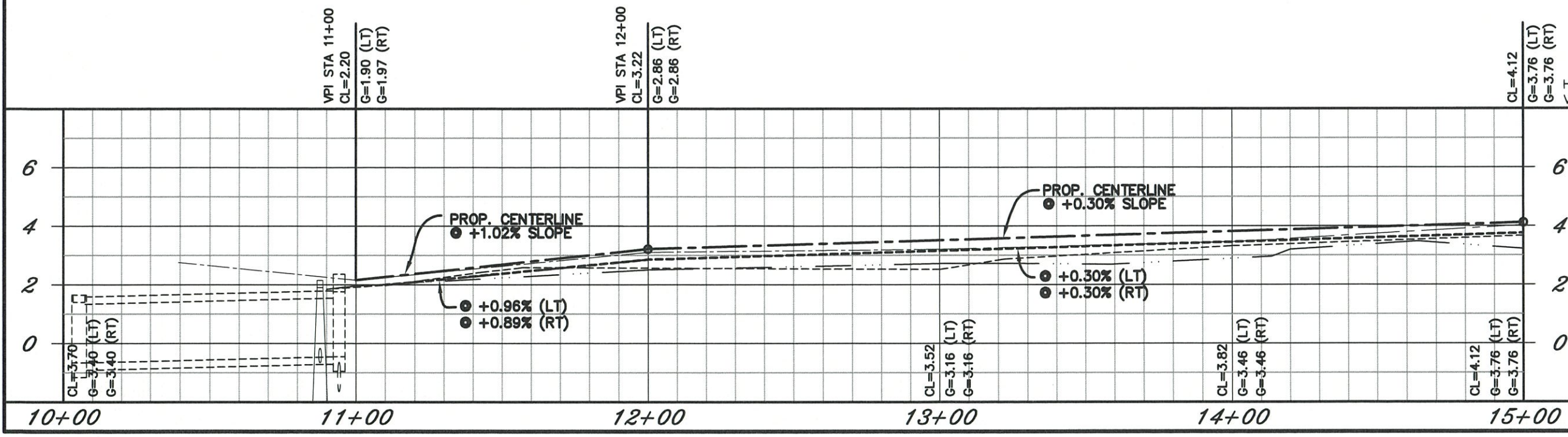
PUBLIC WORKS
 4601 PADRE BLVD,
 SOUTH PADRE ISLAND
 TEXAS 78597
 (956) 761-8158
 Fax (956) 761-3898

SCALE: 1"=30'	REVISIONS:	SHEET
DRAWN BY: CAS		15
DATE: 11/21/2023		OF 52
FILE: MORNINGSIDE		



ESTIMATED QUANTITIES

DESCRIPTION	UNIT	QTY.
CURB & GUTTER	LF	812
VALLEY GUTTER	SY	0
SIDEWALK	SY	226
ASPHALT DRIVEWAY	SY	33
CONCRETE DRIVEWAY	SY	242
HANDICAP RAMP	EA	1
PALM TREE	EA	12



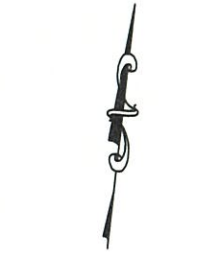
**LAGUNA BOULEVARD
STREET & DRAINAGE IMPROVEMENTS
E. RETAMA STREET**

**PLAN & PROFILE
10+50 TO 15+00**



PUBLIC WORKS
4601 PADRE BLVD.
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TEXAS 78597
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SCALE: 1"=40'	REVISIONS:	SHEET
DRAWN BY: CAS		16
DATE: 11/21/2023		OF 52
FILE: RETAMA		



SCALE: 1"=40'

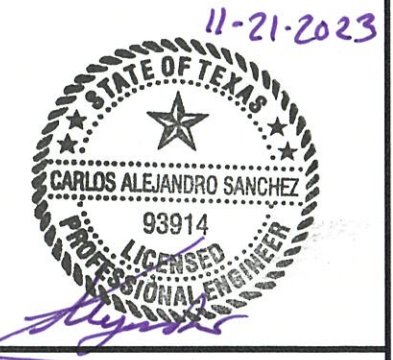
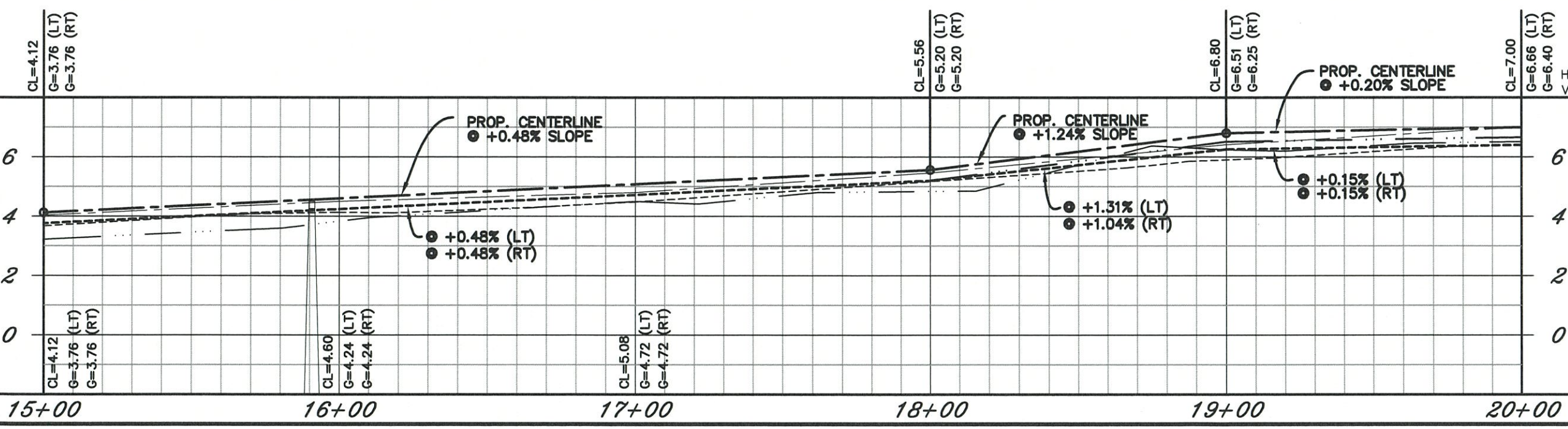
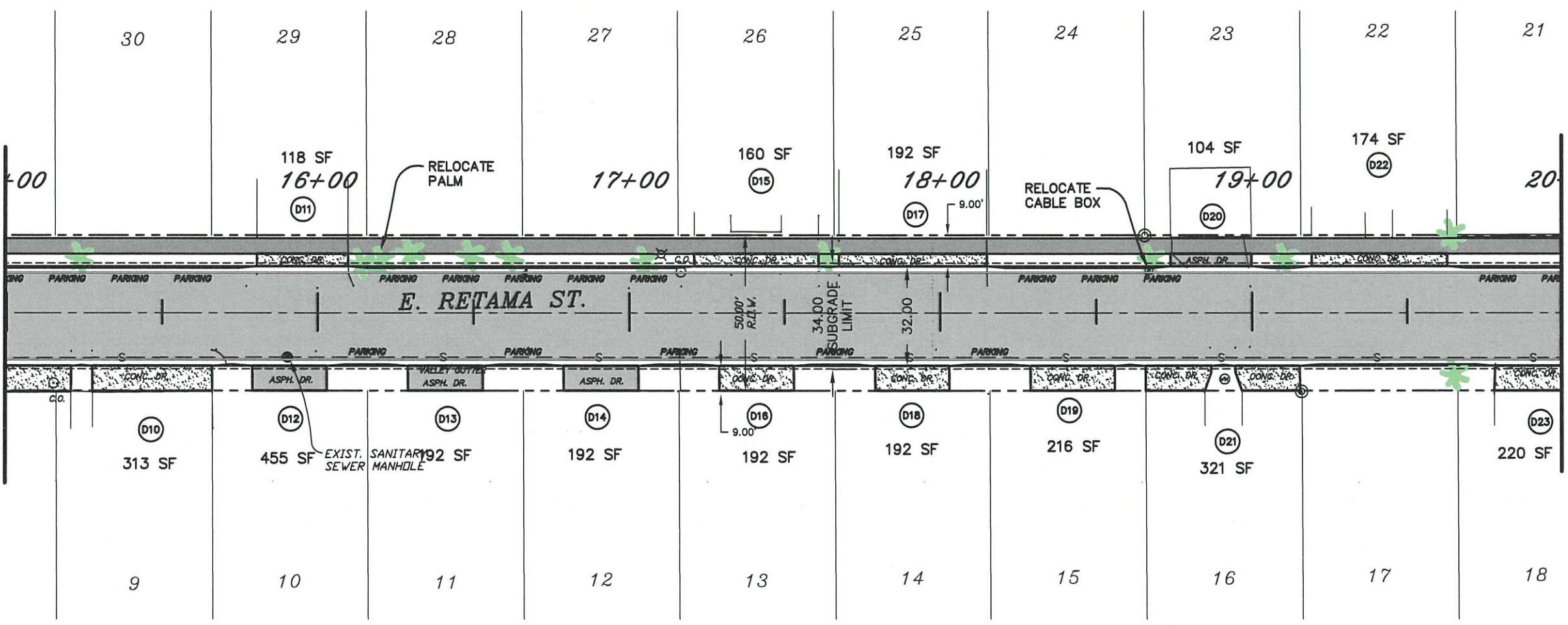
LEGEND

- EXIST. CENTERLINE
- EXIST. LEFT SWALE
- EXIST. RIGHT SWALE
- PROP. CENTERLINE
- PROP. LEFT GUTTER
- PROP. RIGHT GUTTER
- PROP. CURB OPENING

ESTIMATED QUANTITIES		
DESCRIPTION	UNIT	QTY.
CURB & GUTTER	LF	1,000
VALLEY GUTTER	SY	0
SIDEWALK	SY	278
ASPHALT DRIVEWAY	SY	64
CONCRETE DRIVEWAY	SY	233
HANDICAP RAMP	EA	0
PALM TREE	EA	10

MATCHLINE STA. 15+00

MATCHLINE STA. 20+00

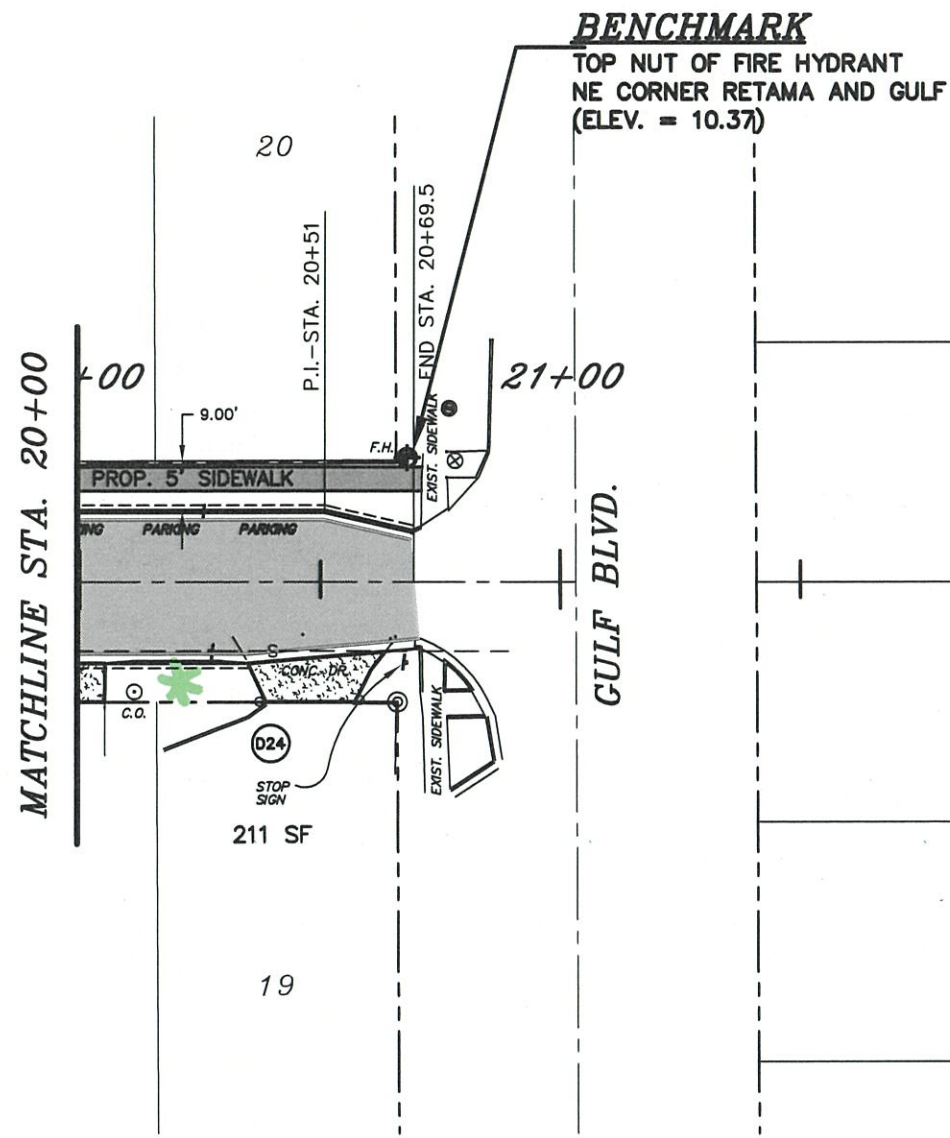


LAGUNA BOULEVARD STREET & DRAINAGE IMPROVEMENTS E. RETAMA STREET

PLAN & PROFILE 15+00 TO 20+00

PUBLIC WORKS
 4601 PADRE BLVD.
 SOUTH PADRE ISLAND
 TEXAS 78597
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 Fax (956) 761-3898

SCALE: 1"=40'	REVISIONS:	SHEET
DRAWN BY: CAS		17
DATE: 11/21/2023		OF 52
FILE: RETAMA		



LEGEND

---	EXIST. CENTERLINE
---	EXIST. LEFT SWALE
---	EXIST. RIGHT SWALE
---	PROP. CENTERLINE
---	PROP. LEFT GUTTER
---	PROP. RIGHT GUTTER
○	PROP. CURB OPENING

ESTIMATED QUANTITIES

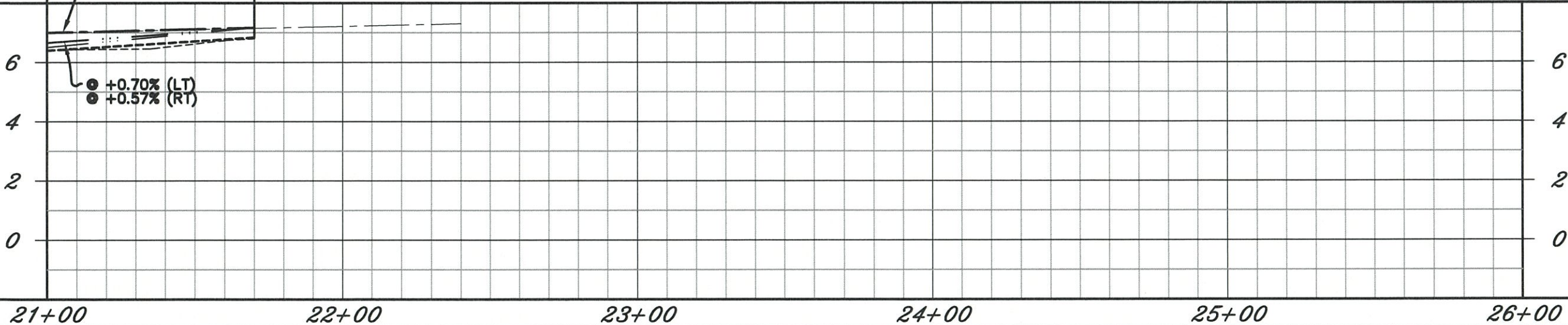
DESCRIPTION	UNIT	QTY.
CURB & GUTTER	LF	139
VALLEY GUTTER	SY	0
SIDEWALK	SY	39
ASPHALT DRIVEWAY	SY	-
CONCRETE DRIVEWAY	SY	36
HANDICAP RAMP	EA	0
PALM TREE	EA	1

SCALE: 1"=40'

CL=7.00
G=6.66 (LT)
G=6.40 (RT)

CL=7.35
G=7.15 (LT)
G=6.80 (RT)

PROP. CENTERLINE
● +0.50% SLOPE



LAGUNA BOULEVARD
STREET & DRAINAGE IMPROVEMENTS
E. RETAMA STREET

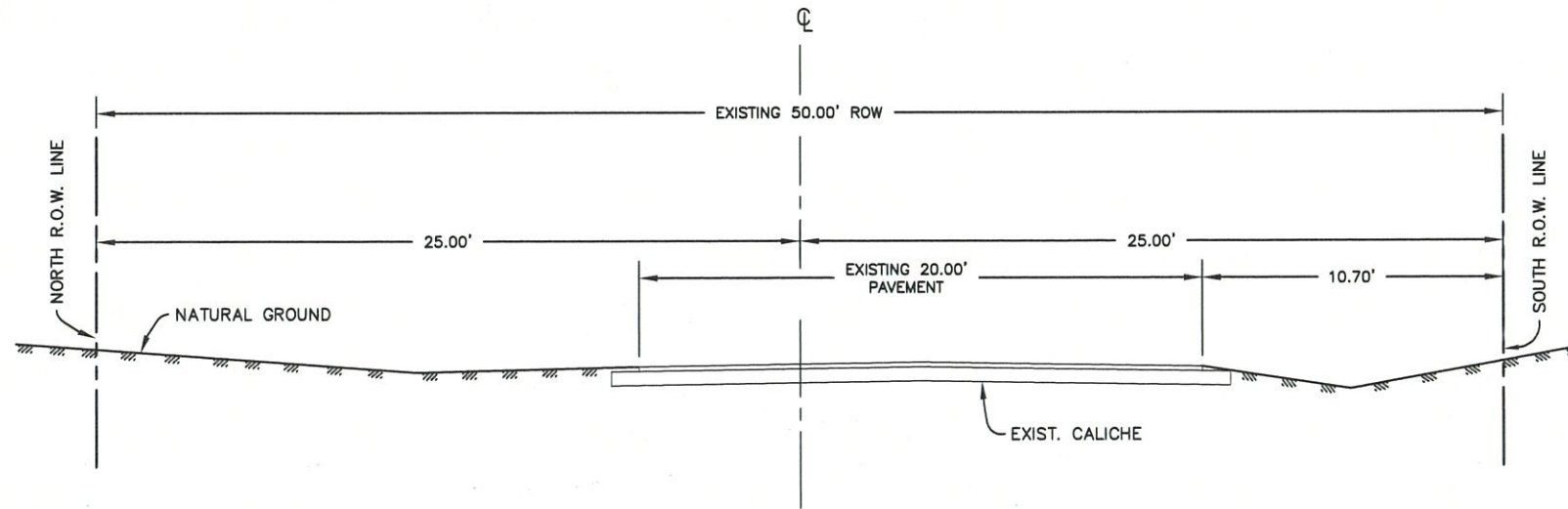
PLAN & PROFILE
20+00 TO 22+00

PUBLIC WORKS

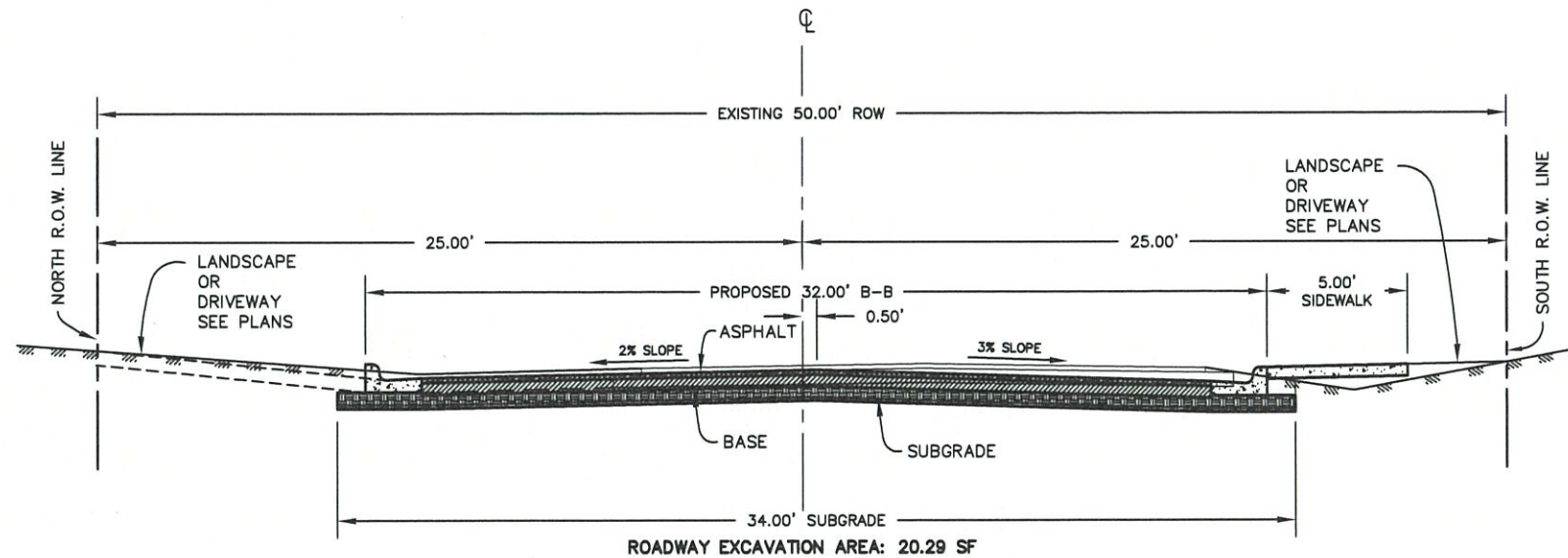


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SCALE: 1"=40'	REVISIONS:	SHEET
DRAWN BY: CAS		18
DATE: 11/21/2023		OF 52
FILE: RETAMA		



EXISTING
50' ROW TYPICAL SECTION
 SCALE: 1/8" = 1'
 LANTANA STREET

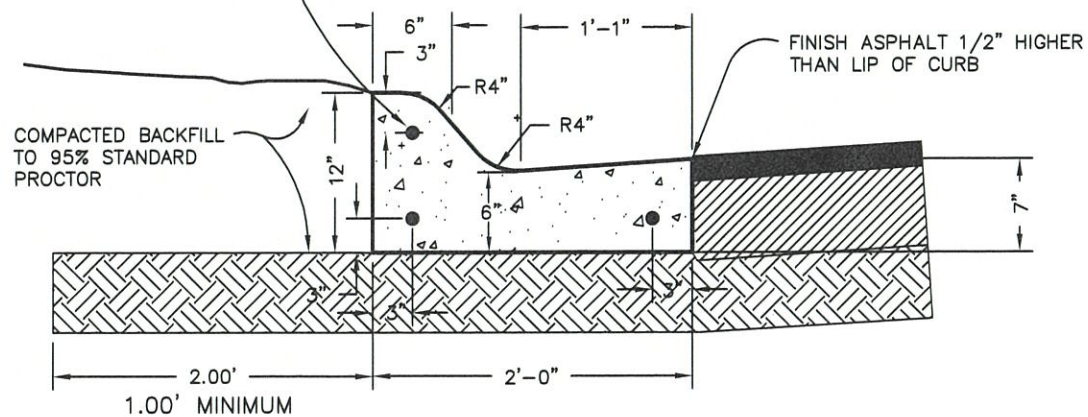


PROPOSED
50' ROW TYPICAL SECTION
 SCALE: 1/8" = 1'
 LANTANA STREET



LANTANA STREET STREET & DRAINAGE IMPROVEMENTS		
EXIST. & PROP. CROSS SECTION		
	PUBLIC WORKS	
	4601 PADRE BLVD, SOUTH PADRE ISLAND TEXAS 78597 (956) 761-8158 Fax (956) 761-3898	
SCALE: 1"=40'	REVISIONS:	SHEET
DRAWN BY: CAS		19
DATE: 11/21/2023		OF 52
FILE: CLANTANA-REMOVAL		

NO. 4 X 3' SMOOTH DOWELS
AT EXPANSION JOINTS (ONLY)



1 CURB & GUTTER DETAIL
SCALE: 1" = 1'

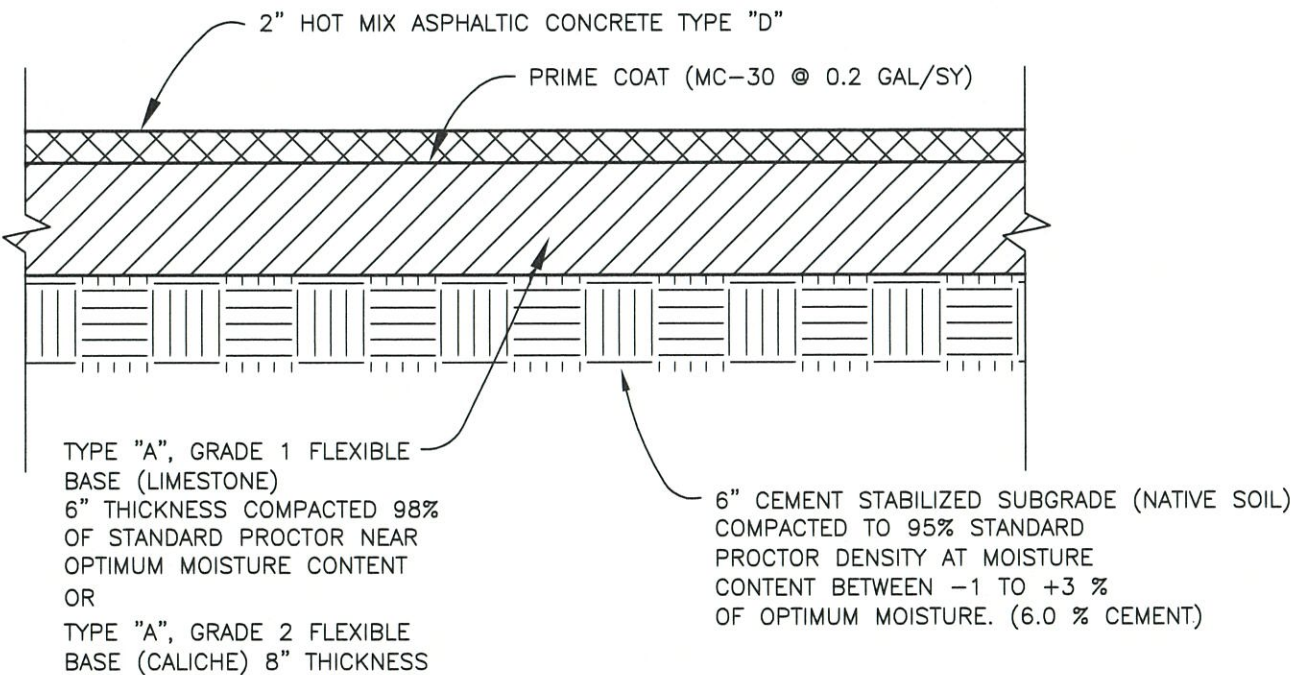
NOTE:

Expansion joints will be placed at curb returns, inlets, and end of each pour with intervals not to exceed 40 L.F. Joints will consist of 1/2" pre-molded expansion joint material with 3 - 36" x 1/2" dowels, one end greased and wrapped. Care must be taken that the dowels are straight and laid parallel with curb and no concrete "plugs" or other material be allowed through the dowel holes or expansion material that would prevent joint from operating as an expansion joint. Expansion joint material shall be pre-molded asphalt impregnated expansion joint material conforming to ASTM D 994 (NOT WOOD FIBER TYPE)

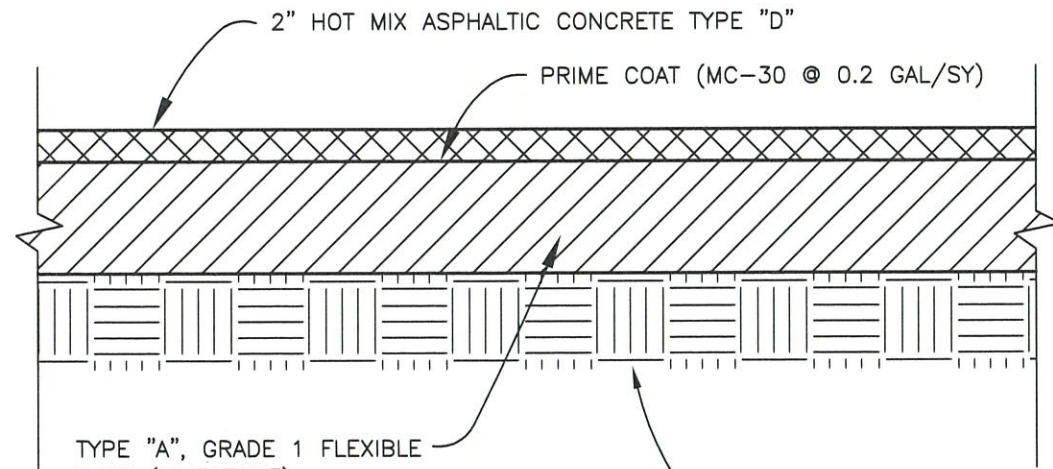
Dummy joints shall be 2" deep and placed at 10 ft. intervals.

Concrete shall be 3000 psi conforming to the requirement of "Reinforced Concrete Structures", when not shown on the drawings, and shall also contain 1.5 lbs. of fibermesh per cubic yard.

All exposed concrete surfaces, (sidewalks, concrete pavement, curb & gutter, etc.) shall be treated with curing compound, resin base ASTM C 309, Type 2 with pigmented tint of fugitive dye.



NEW SECTION



TYPE "A", GRADE 1 FLEXIBLE
BASE (LIMESTONE)
5" THICKNESS COMPACTED 98%
OF STANDARD PROCTOR NEAR
OPTIMUM MOISTURE CONTENT
OR
TYPE "A", GRADE 2 FLEXIBLE
BASE (CALICHE) 6" THICKNESS

6" CEMENT STABILIZED SALVAGE MATERIAL
COMPACTED TO 95% STANDARD
PROCTOR DENSITY AT MOISTURE
CONTENT BETWEEN -1 TO +3 %
OF OPTIMUM MOISTURE. (4.0 % CEMENT)

SALVAGE SECTION

2 ASPHALT PAVEMENT

2" THICK HOT MIX ASPHALTIC CONCRETE TYPE "D" MEETING THE REQUIREMENTS OF 1995 TXDOT SPECIFICATION ITEM 340 AND SPECIFIC CRITERIA FOR JOB MIXING.

HVEEM STABILITY SHALL BE AT LEAST 40.

COMPACTION STABILITY SHALL BE BETWEEN 91 AND 95 PERCENT OF MAXIMUM THEORETICAL DENSITY.

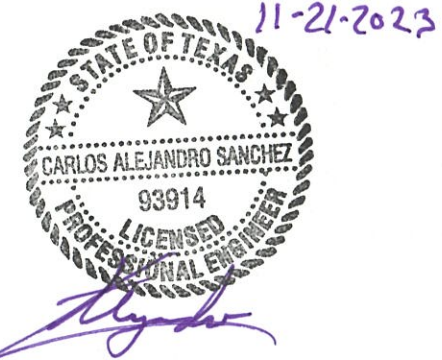
ASPHALTIC CEMENT CONTENT SHALL BE WITHIN TOLERANCE OF ±3 PERCENT OF SPECIFIC MIX DESIGN.

75 TO 85 PERCENT OF THE VOIDS OF THE MINERAL AGGREGATE SHALL BE FILLED WITH ASPHALTIC CEMENT.

SALVAGE COURSE:

THE PROPOSED STABILIZED SALVAGE COURSE SHALL INCLUDE THE EXISTING HMAC (ACP), EXISTING BASE AND EXISTING SUBGRADE. THE PROPOSED SALVAGE COURSE SHALL BE SCARIFIED, REMOVED AND REPLACED. THE SALVAGE SHALL BE MIXED AND SPREAD EVENLY WITHIN THE SUBGRADE LIMITS BEFORE CEMENT IS ADDED.

THE EXISTING HMAC IS ASSUMED TO BE 2", AND THE EXISTING BASE IS ASSUMED TO BE 6". A TOTAL OF 8" WITHIN THE LIMITS OF THE EXISTING PAVEMENT WILL BE SALVAGED FOR USE FOR THE SUBGRADE MATERIAL. AN ADDITIONAL 2" TO 5" OF EXISTING SUBGRADE SHALL BE REMOVED AND STOCKPILED FOR USED AS FILL. EXCAVATION WITHIN THE LIMITS OF THE SUBGRADE LIMITS (33') WILL BE SUBSIDIARY TO THE 6" SALVAGE MATERIAL UNLESS OTHERWISE NOTED.



ADT: 436
MINIMUM STRUCTURAL NUMBER: 2.64

**2023 SIDE STREETS
IMPROVEMENTS PHASE 2
W. LANTANA STREET**

**PAVEMENT
DETAILS**

PUBLIC WORKS

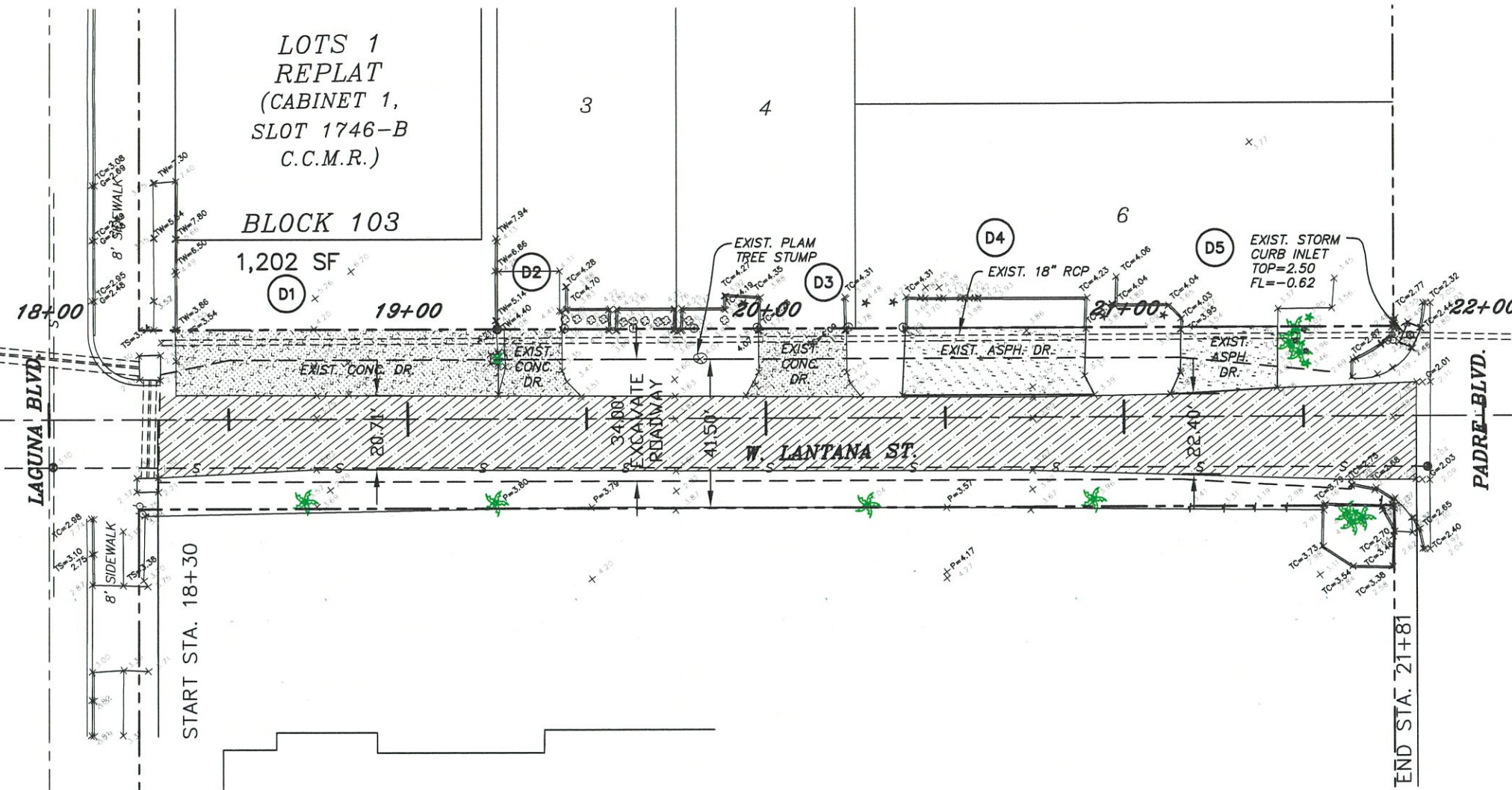


4601 PADRE BLVD,
SOUTH PADRE ISLAND
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(956) 761-8158
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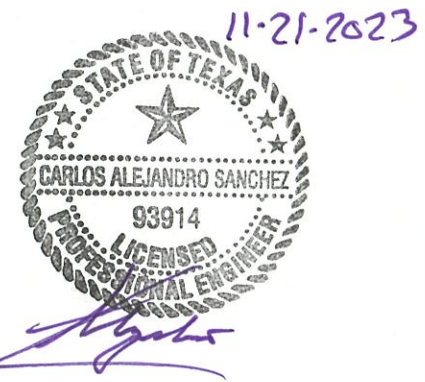
SCALE: AS SHOWN	REVISIONS:	SHEET
DRAWN BY: CAS		20
DATE: 11/21/2023		OF 52
FILE: LAGUNABLVD-DESIGN4		

MATCHLINE STA. 17+50

MATCHLINE STA. 22+50



DESCRIPTION	UNIT	QTY.
8" SALVAGE EXIST. PAVE	SY	846
EXCAVATION ROADWAY	CY	264
EMBANKMENT (FINAL)	CY	20
REMOVE SIDEWALK	SY	-
REMOVE ASPHALT DRIVE	SY	162
REMOVE CONCRETE DRIVE	SY	272
ADJUST WATER VALVES	EA	0
ADJUST WATER METER	EA	0



2023 SIDE STREET IMPROVEMENTS PHASE 2
W. LANTANA STREET

TOPOGRAPHY & REMOVAL

PUBLIC WORKS

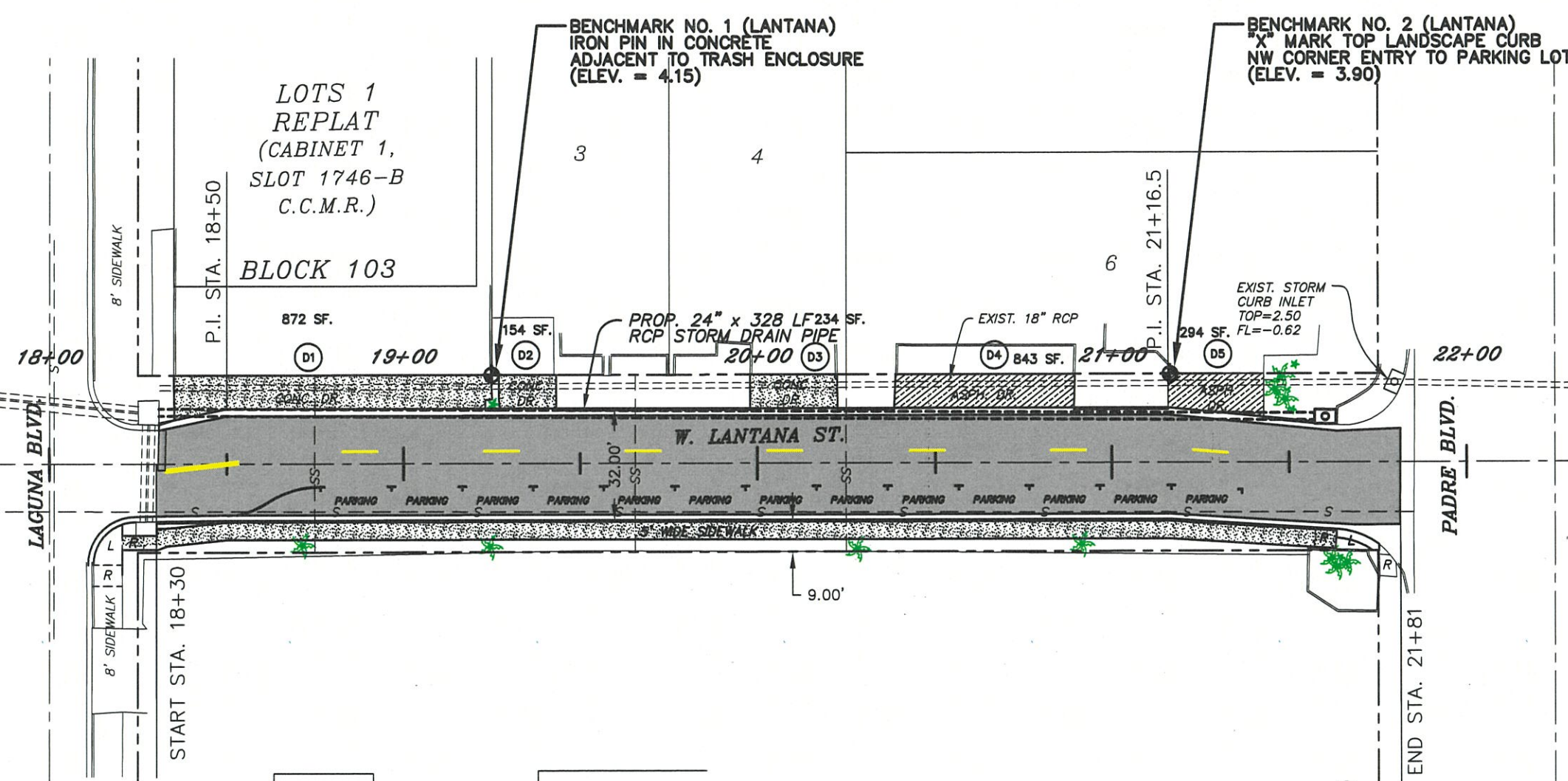
South Padre ISLAND

4601 PADRE BLVD,
SOUTH PADRE ISLAND
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(956) 761-8158
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SCALE: 1"=40' REVISIONS: SHEET
DRAWN BY: CAS DATE: 11/21/2023 21
FILE: LANTANA-REMOVAL OF 52

MATCHLINE STA. 17+50

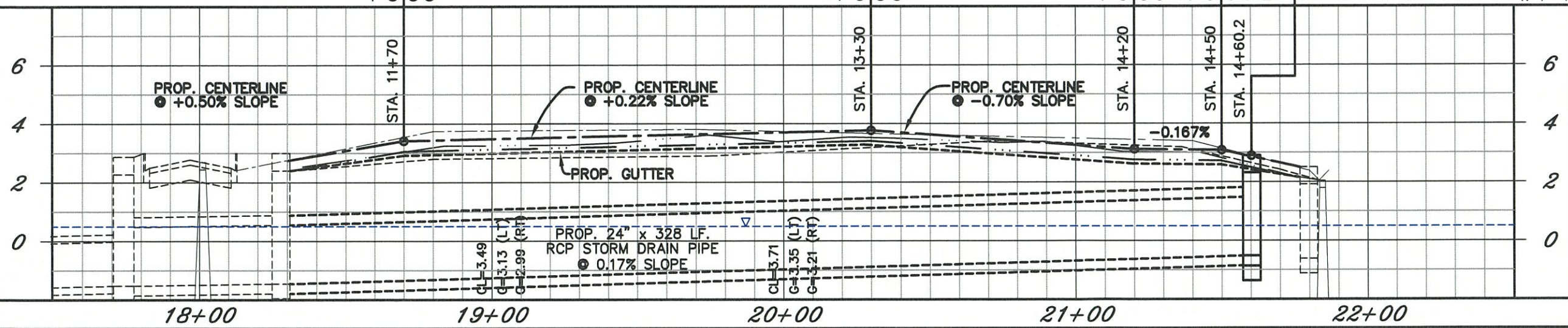
MATCHLINE STA. 22+50



- EXIST. CENTERLINE
- EXIST. NORTH SWALE
- EXIST. SOUTH SWALE
- PROP. CENTERLINE
- PROP. GUTTER (LT)
- PROP. GUTTER (RT)

QUANTITY ESTIMATE		
DESCRIPTION	UNIT	QTY.
CURB & GUTTER	LF	665
VALLEY GUTTER	SY	0
SIDEWALK	SY	189
CONCRETE INTERSECTION	SY	0
ASPHALT DRIVEWAY	SY	87
CONCRETE DRIVEWAY	SY	140
HANDICAP RAMP (TY)	EA	2
TIE EXIST. INLET	EA	1
CURB INLET - 5'x3'	EA	1
24" RCP	LF	328

TC=3.50 (R)	TC=3.85 (R)	TC=3.22 (R)	TC=3.17 (R)
CL=3.42	CL=3.77	CL=3.14	CL=3.09
G=3.06 (LT)	G=3.41 (LT)	G=2.78 (LT)	G=2.73 (LT)
G=2.92 (RT)	G=3.27 (RT)	G=2.64 (RT)	G=2.59 (RT)



2023 SIDE STREET IMPROVEMENT
STREET & DRAINAGE IMPROVEMENTS
W. LANTANA STREET

PLAN & PROFILE
17+50 TO 22+50

PUBLIC WORKS

South Padre ISLAND

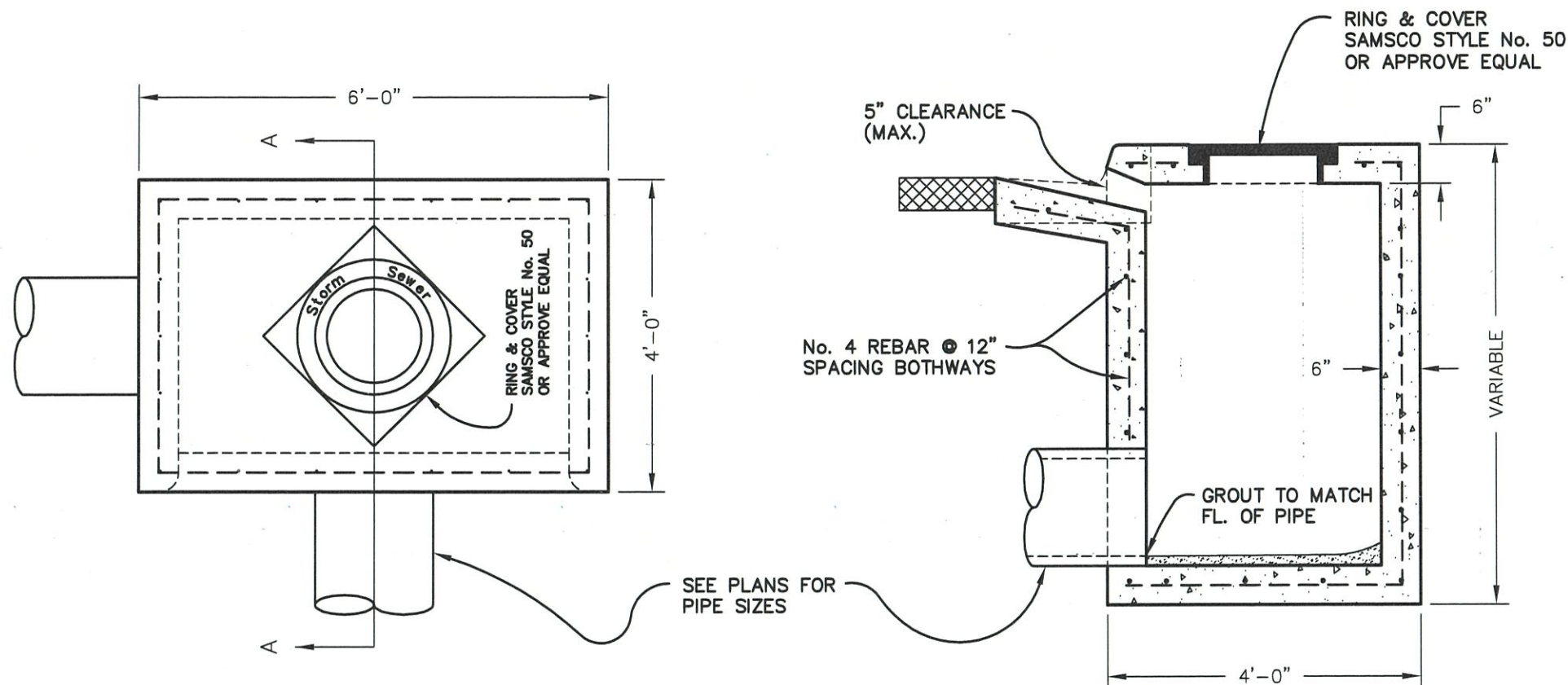
4601 PADRE BLVD.
SOUTH PADRE ISLAND
TEXAS 78597
(956) 761-8158
Fax (956) 761-3898

SCALE: 1"=40'
DRAWN BY: CAS
DATE: 11/21/2023
FILE: CLANTANA

REVISIONS:

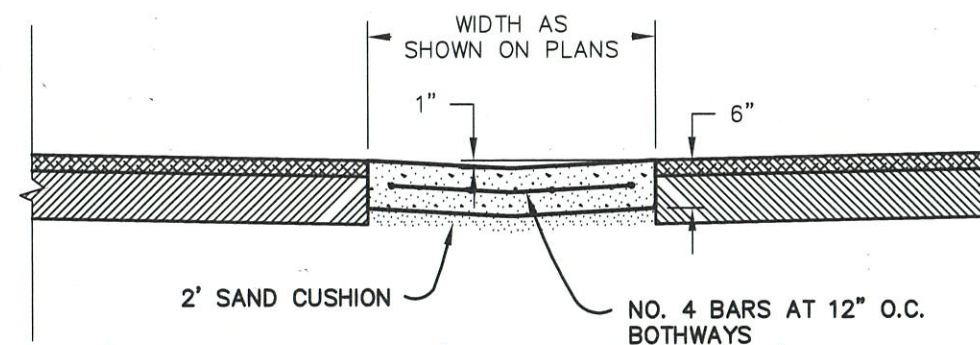
SHEET
22
OF 52

COVER NOTE: COVER SHALL HAVE CITY LOGO



TOP VIEW

SECTION A-A



CONCRETE VALLEY GUTTER

NOT TO SCALE

TYPICAL CURB INLET DETAIL

SCALE: 1/2" = 1'

NOTES:

1. PRECAST INLETS (TYPE "A") MAY BE USED.
2. BASES FOR PRECAST INLETS MUST BE POURED PRIOR TO SETTING WALLS.
3. BASE AND REINFORCING SHALL EXTEND AT LEAST 6" BEYOND OUTSIDE OF PRECAST BOXES.
4. CONTACT POINT BETWEEN BASE AND PRECAST BOX WALLS SHALL BE GROUTED INSIDE AND OUTSIDE.



11-21-2023

2023 SIDE STREETS IMPROVEMENTS, PHASE 2

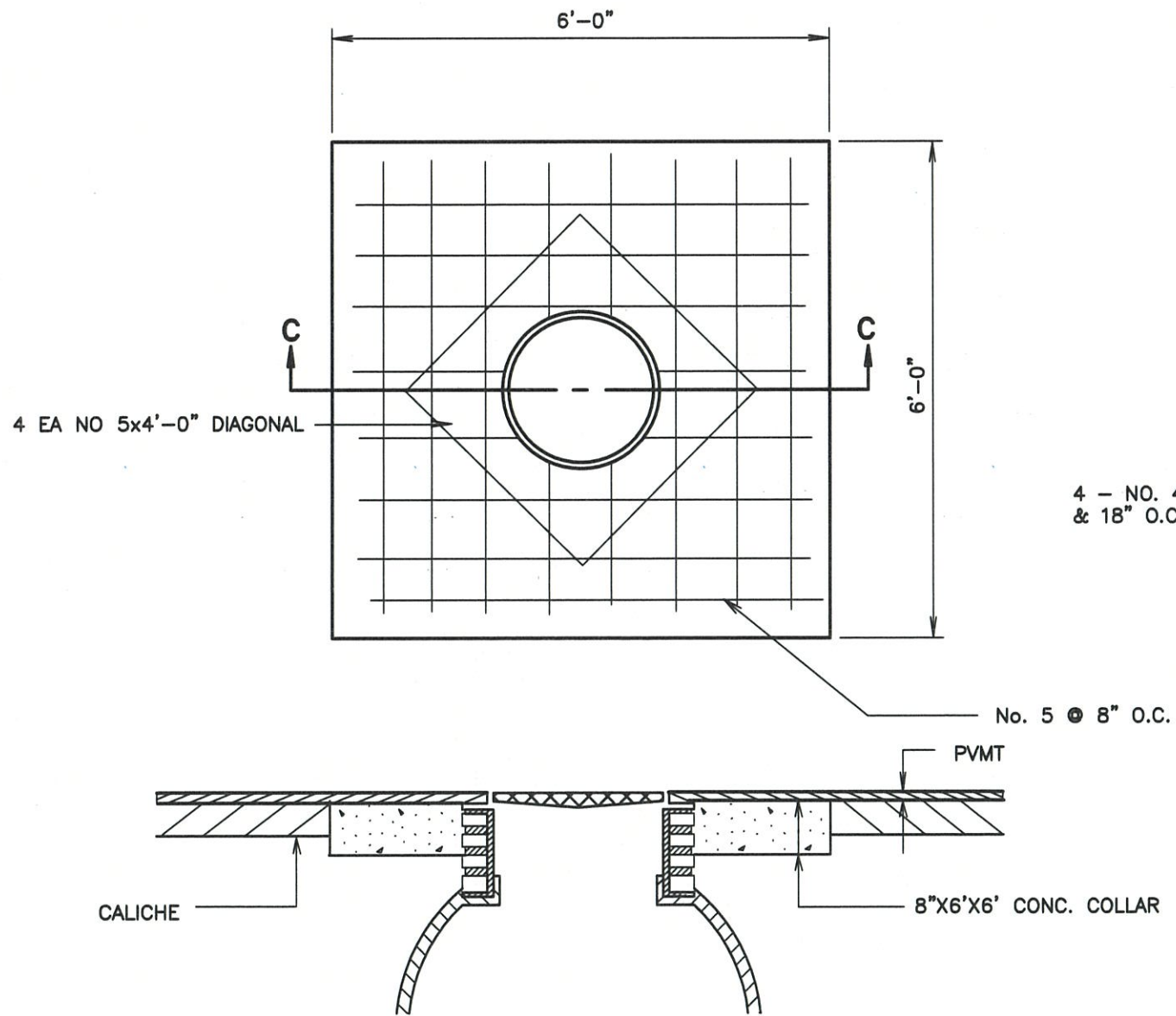
DRAINAGE DETAILS DETAILS

PUBLIC WORKS



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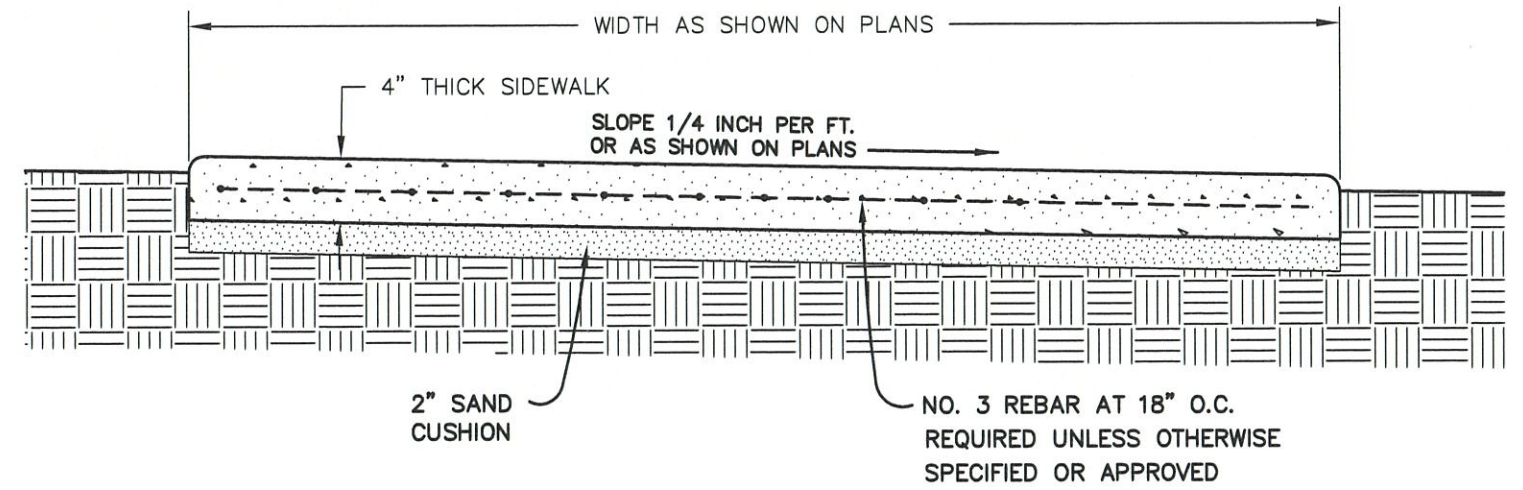
SCALE: AS SHOWN	REVISIONS:	SHEET
DRAWN BY: CAS		23
DATE: 03/14/2023		OF 52
FILE: RETAMA		



TYPICAL FIBERGLASS MANHOLE IN PAVEMENT

SECTION C-C

NOT TO SCALE

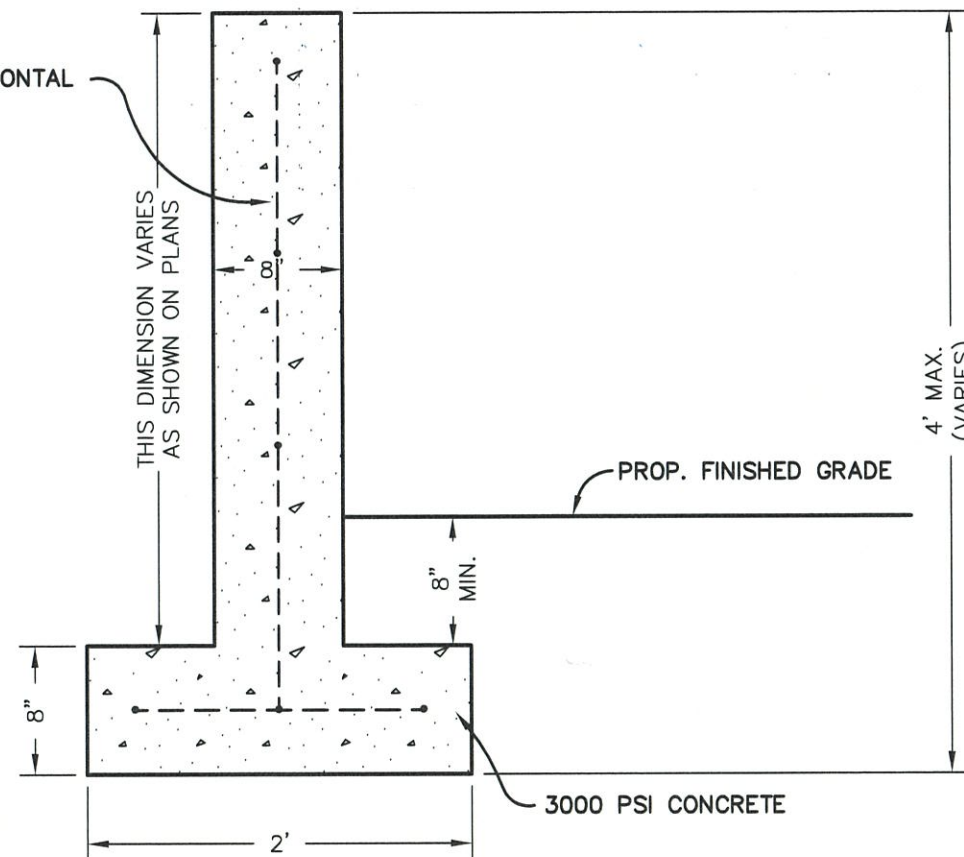


NOTE:
DUMMY JOINT SPACING SHALL BE EQUAL TO SIDEWALK WIDTH AND EXPANSION JOINTS AT APPROXIMATELY 30 FEET OR NEAREST MULTIPLE OF SIDEWALK WIDTH.

STANDARD CONCRETE SIDEWALK

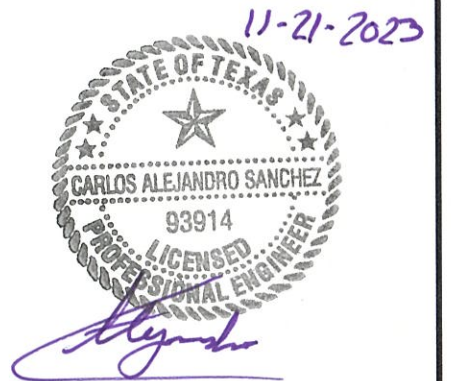
SCALE: 1" = 1'

4 - NO. 4 BAR HORIZONTAL & 18" O.C. VERTICAL



CONCRETE WALL

SCALE: 1"=1'



2023 SIDE STREETS IMPROVEMENTS, PHASE 2

SITE DETAILS SHEET

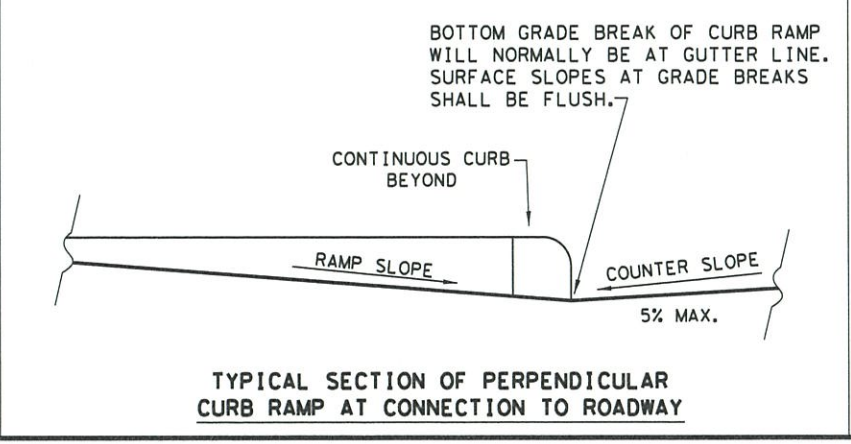
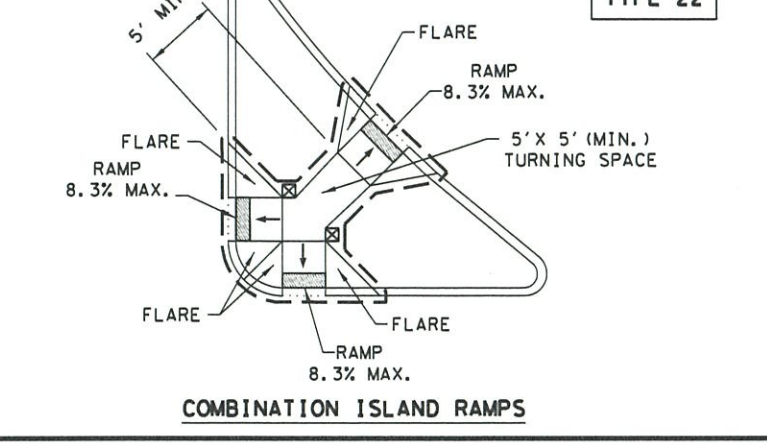
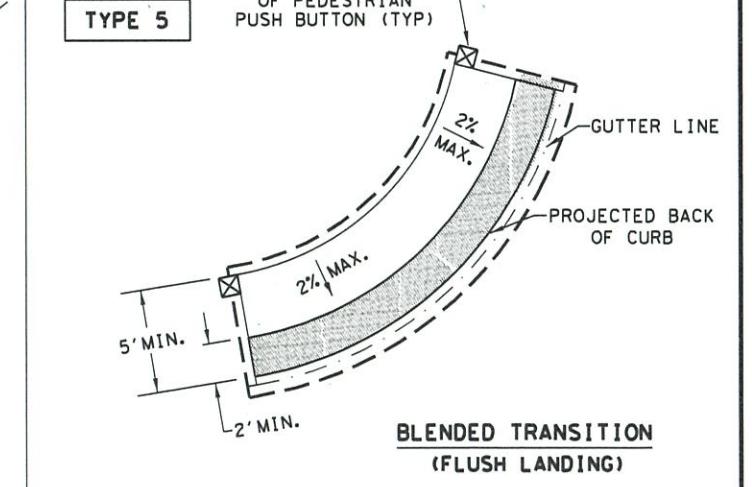
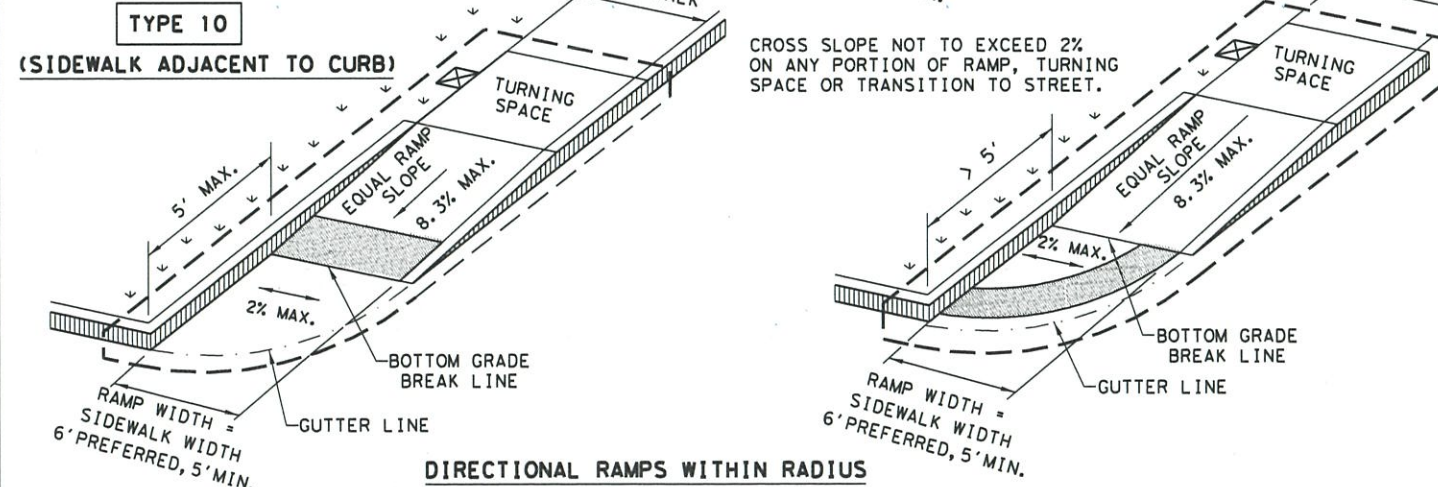
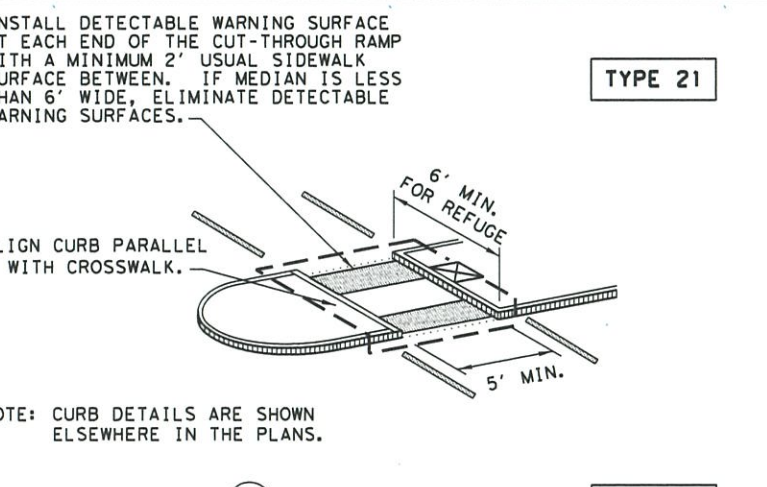
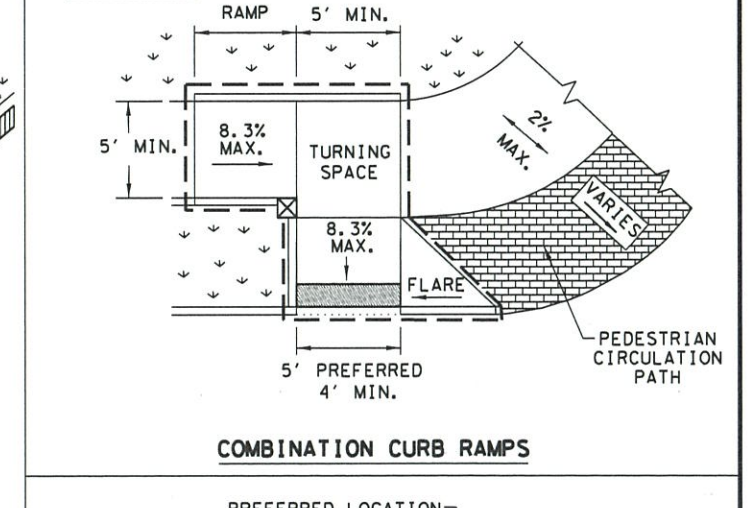
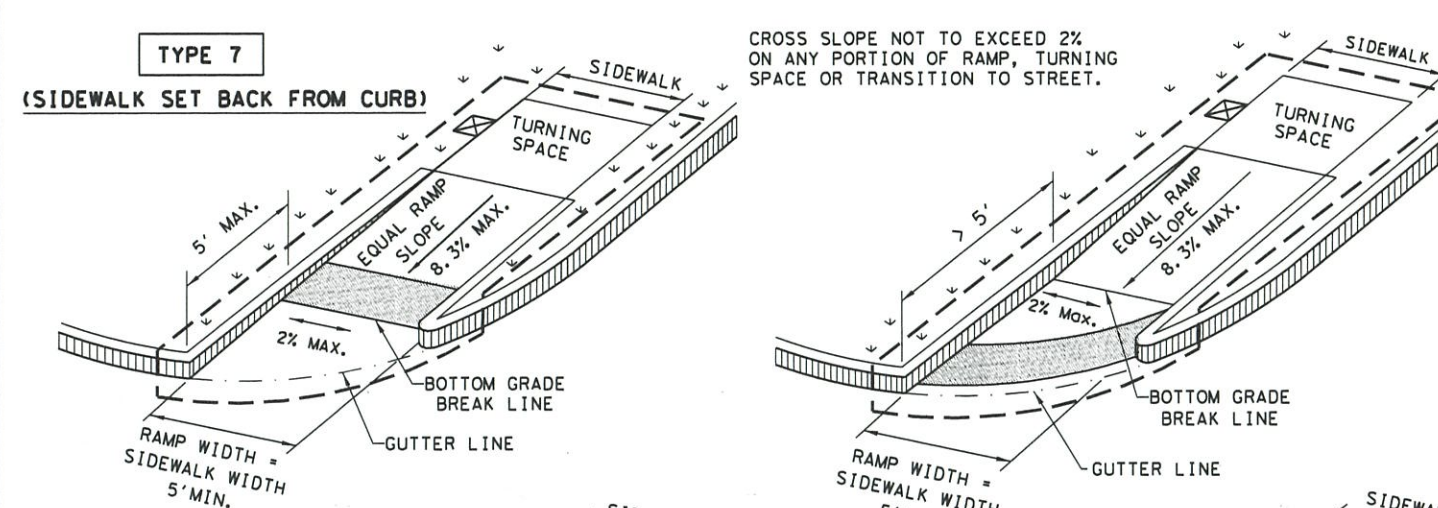
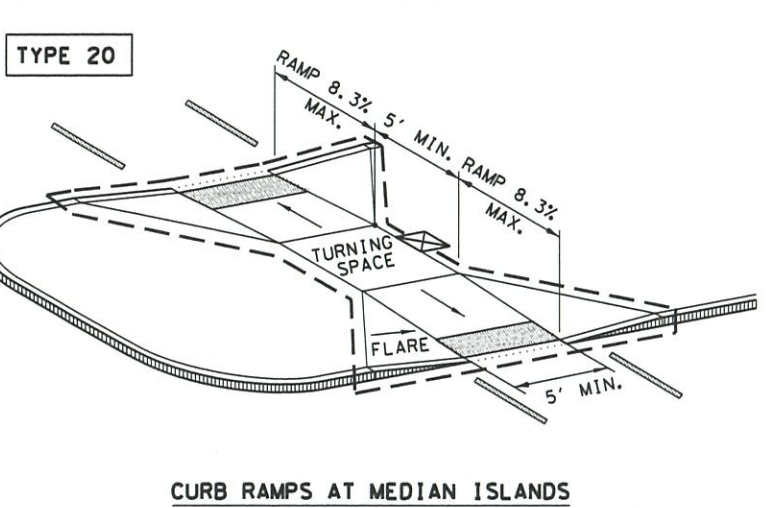
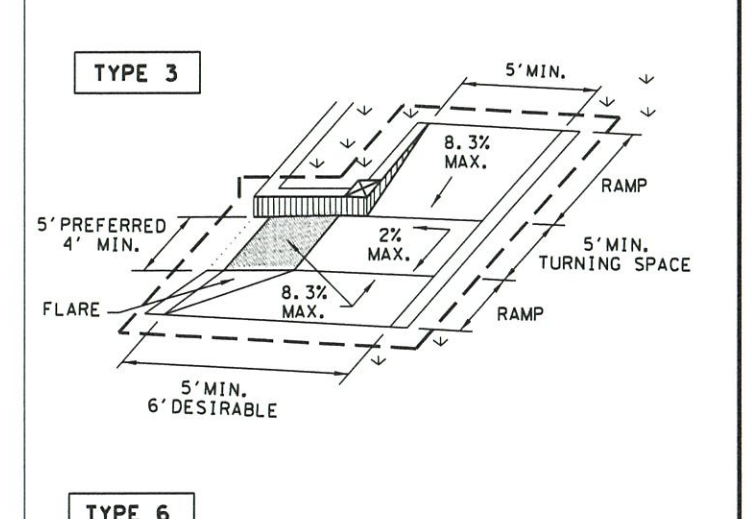
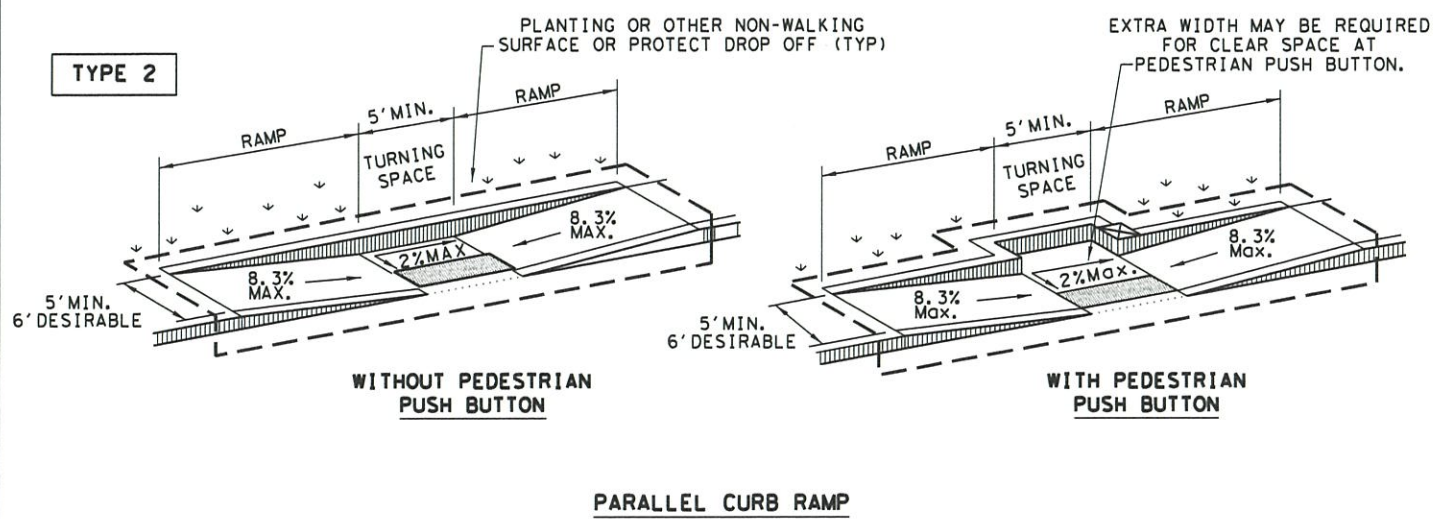
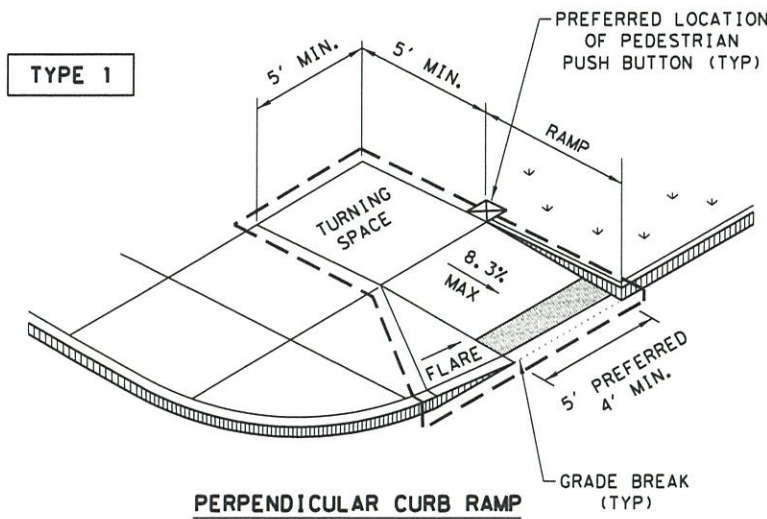
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DATE: 03/14/2023		OF 52
FILE: RETAMA		

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NOTES / LEGEND:
 SEE GENERAL NOTES ON SHEET 2 OF 4 FOR MORE INFORMATION.
 DENOTES PLANTING OR NON-WALKING SURFACE NOT PART OF PEDESTRIAN CIRCULATION PATH.
 DETECTABLE WARNING SURFACE
 DENOTES PREFERRED LOCATION OF PEDESTRIAN PUSH BUTTON IF APPLICABLE.
 GUTTER LINE
 GRADE BREAK
 RAMP LIMITS OF PAYMENT

SHEET 1 OF 4

Texas Department of Transportation
 Design Division Standard

PEDESTRIAN FACILITIES CURB RAMPS
PED-18

FILE: ped18	DN: TxDOT	DW: VP	CK: KM	CK: PK & JG
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REVISED 08, 2005	REVISIONS			
REVISED 08, 2012	DIST	COUNTY	SHEET NO.	
REVISED 01, 2018			25	

DATE: FILE: