

# SAN PEDRO CREEK IMPROVEMENTS

SAN ANTONIO, TX



SAN ANTONIO  
RIVER AUTHORITY

Leaders in Watershed Solutions



SAN ANTONIO  
RIVER AUTHORITY  
Leaders in Watershed Solutions



muñoz

**PAPE-DAWSON  
ENGINEERS**

# 70% DESIGN

- ❖ Major project themes going from 40% to 70% design:
  - ❖ Incorporation of stakeholder input
  - ❖ Solidification of design concepts
  - ❖ Reconciliation of project funding
  - ❖ Progression of design details
    - ❖ Engineering and architectural design
    - ❖ Drawings and specifications

# 70% DESIGN

- ❖ Incorporating input, solidifying the design:
  - ❖ Public engagement and stakeholder input
    - ❖ 5/9/2015 Community Lecture
    - ❖ 5/28/2015 SATX hosted by the Rivard Report
    - ❖ 5/30/2015 open house and feedback solicitation
    - ❖ Input from interested stakeholders
    - ❖ Coordination with COSA related to public art

# 70% DESIGN

- ❖ Cost reconciliation:

- ❖ 40% cost estimate

- ❖ Adopt a phased approach to construction

- ❖ 70% cost estimate

- ❖ Solidification of project construction phasing to maximize flood benefit

- ❖ Options for project cost reduction

# 70% DESIGN

- ❖ Pathway forward from 70% design: Response to Public, Stakeholder and Property Owner Concerns, Value Engineering, and Cost Reduction
  - ❖ Tree of Life Arch and Plaza
  - ❖ Salinas bridge shade structure (art curation)
  - ❖ Alameda amphitheater and plaza
  - ❖ Merodeo “tree bridge” artistic treatment (art curation)
  - ❖ Architectural finishes and detailing
    - ❖ Integral concrete color
    - ❖ Wall finishes and paving pattern selection
    - ❖ Architectural railing selection
    - ❖ Pavers at roadways
  - ❖ Phase 2 as flood control only (full scope completed if funding available)

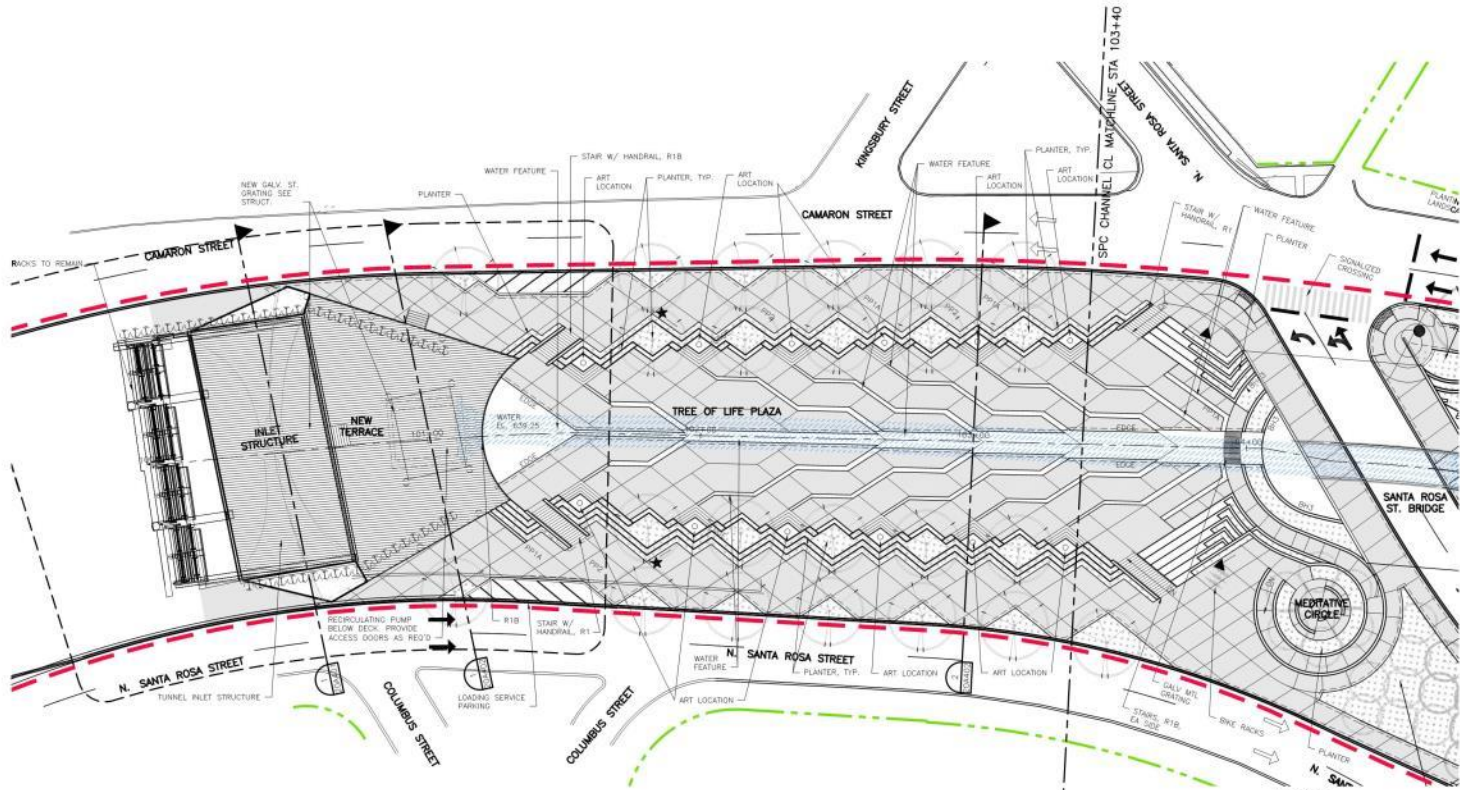
# 70% DESIGN

- ❖ Pathway forward from 70%, Cont.:
  - ❖ Solidify construction phasing
  
  - ❖ Focus design on Phase 1 and Phase 2
    - Progress design for phases 3 and 4, behind phases 1 and 2

# VILLA LAGUNILLA







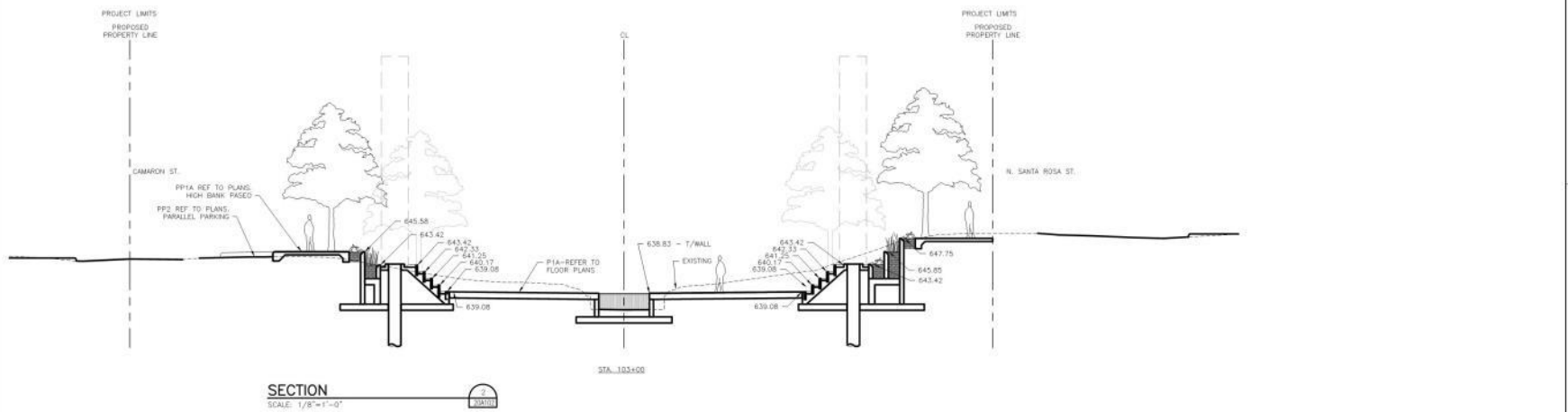
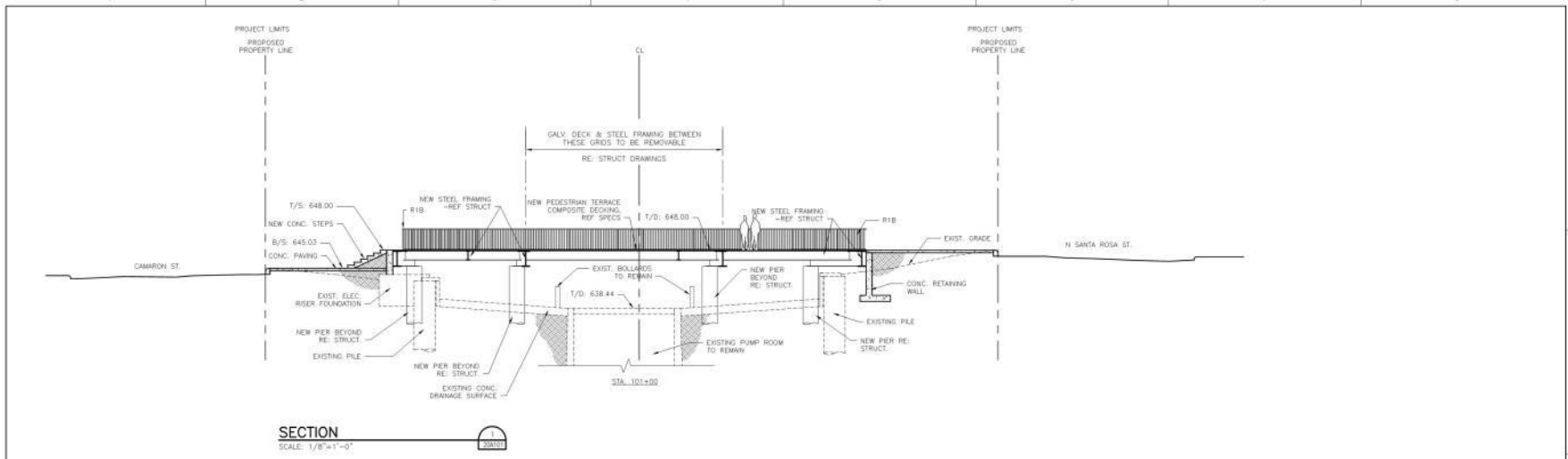
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MAIN CHANNEL PARTIAL PLAN**

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0 10 20 40'

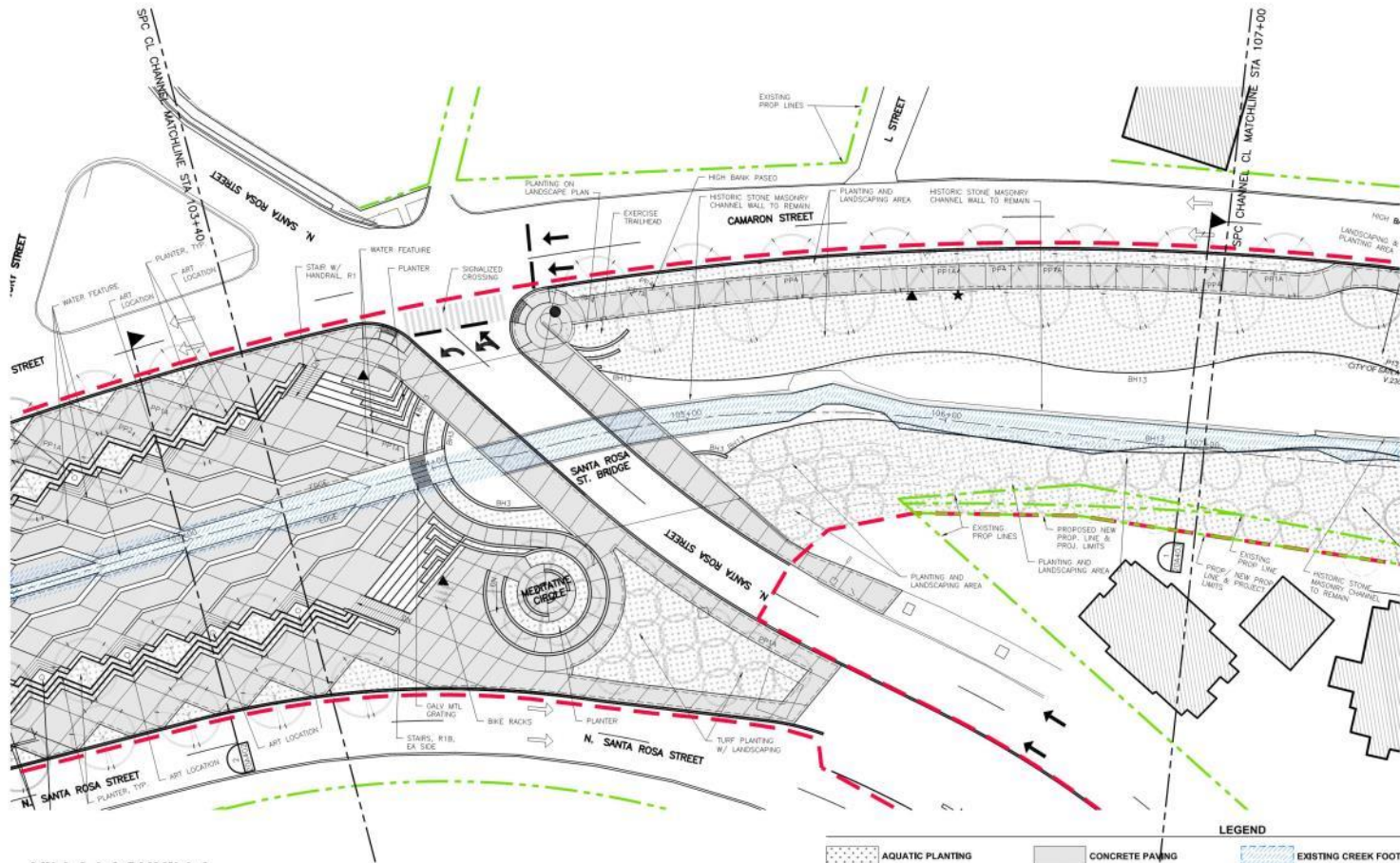
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- AQUATIC PLANTING
  - RIPARIAN PLANTING
  - UPLAND PLANTING
  - CONCRETE PAVING
  - EXPOSED AGGREGATE CONCRETE PAVING
  - STEEL DECKING
  - EXISTING CREEK FOOTPRINT
  - COMPOSITE DECKING
  - TURFGRASS AREA
  - EXISTING PROPERTY LINES
  - PROPOSED RIGHT OF WAY / LIMITS OF CONSTRUCTION

**SAN PEDRO CREEK IMPROVEMENTS**



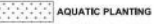

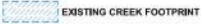


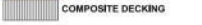




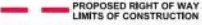


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	ISSUE	DATE	DESCRIPTION																				
07/31/2015	70% SUBMITTAL																						
03/27/2015	40% SUBMITTAL																						
Scale: 1/8"=1'-0"	Title: 	Date:	Drawn by: V. CARROLL																				
Check by: F. DE LA ROSA																							
<p>ALL DIMENSIONS ARE UNLESS OTHERWISE SPECIFIED. THIS DRAWING IS THE PROPERTY OF HDR. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN.</p>																							



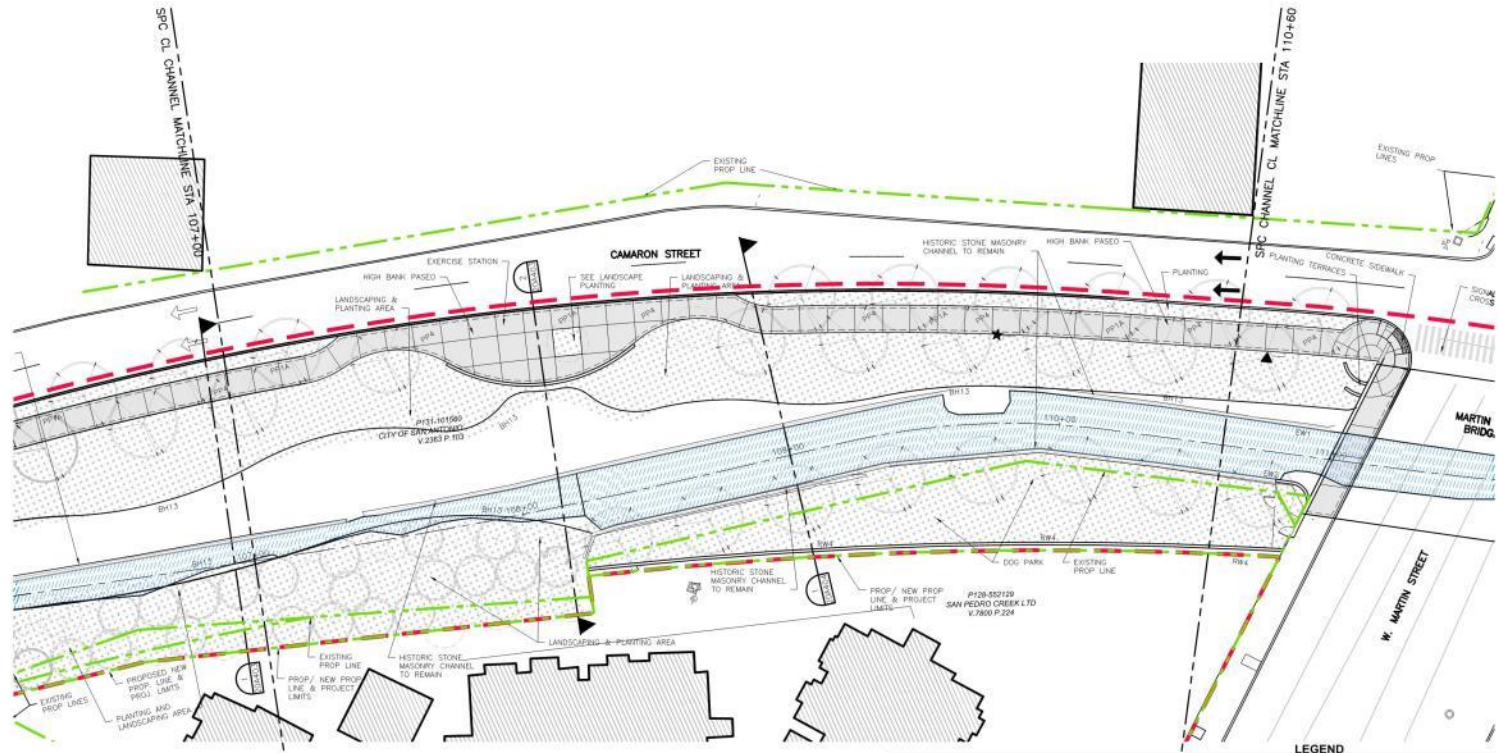
**VILLA LAGUNILLA  
MAIN CHANNEL PARTIAL PLAN**

SCALE: 1" = 10'-0"  
0 10' 20' 30'

- LEGEND**
-  AQUATIC PLANTING
  -  CONCRETE PAVING
  -  EXISTING CREEK FOOTPRINT
  -  RIPARIAN PLANTING
  -  EXPOSED AGGREGATE CONCRETE PAVING
  -  COMPOSITE DECKING
  -  UPLAND PLANTING
  -  STEEL DECKING
  -  TURFGRASS AREA
  -  EXISTING PROPERTY LINES
  -  PROPOSED RIGHT OF WAY / LIMITS OF CONSTRUCTION

**SAN PEDRO CREEK IMPROVEMENTS**





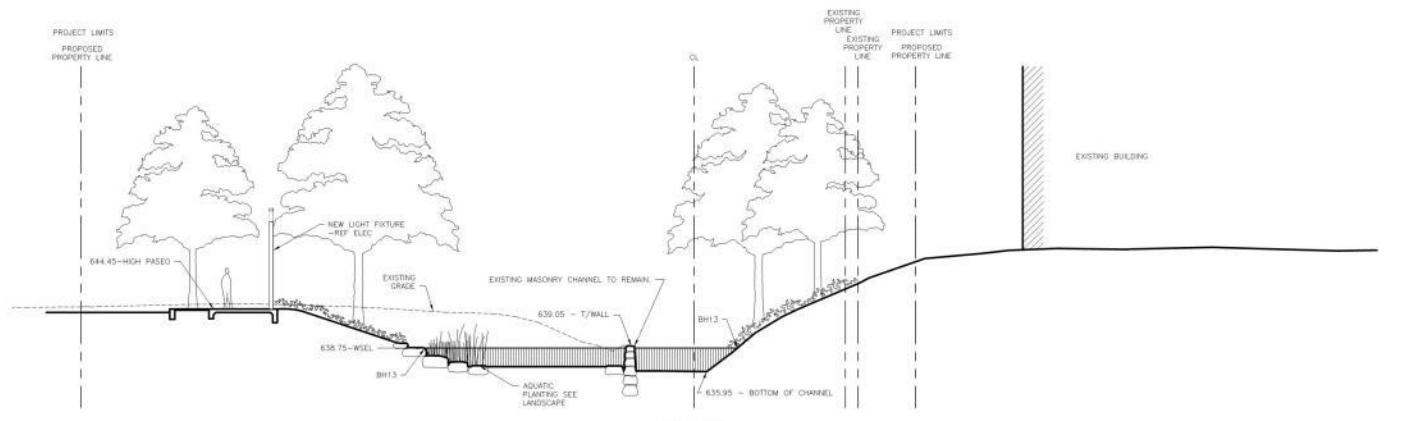
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MAIN CHANNEL PARTIAL PLAN**

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SCALE: 1" = 10'-0"  
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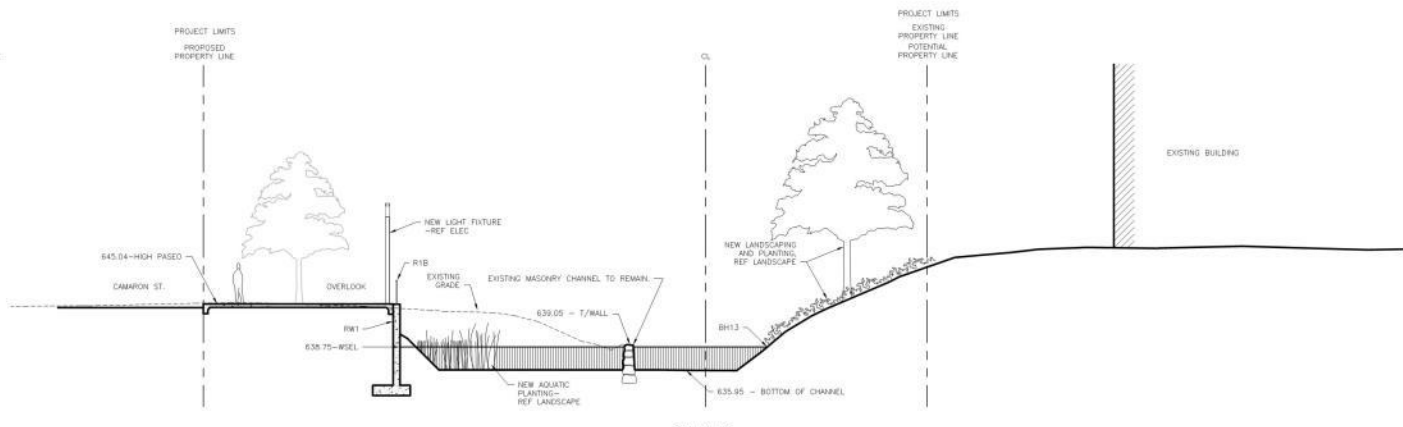
- LEGEND**
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  - TURFGRASS AREA

**SAN PEDRO CREEK IMPROVEMENTS**





**SECTION**  
SCALE: 1/8"=1'-0"



**SECTION**  
SCALE: 1/8"=1'-0"

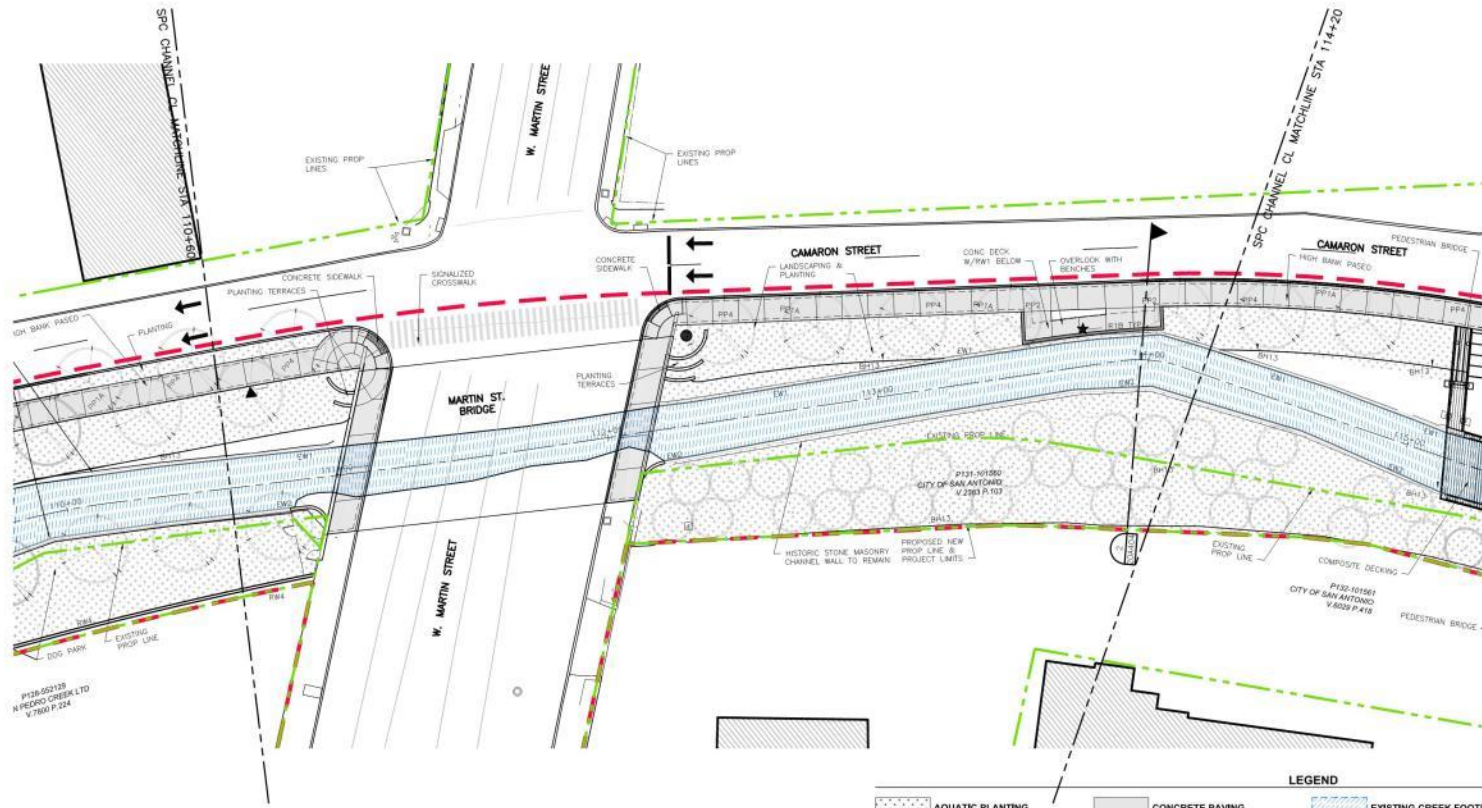
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Intern Review Documents  
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**VILLA LAGUNILLA MAIN CHANNEL AREA SECTIONS**  
 SAN PEDRO CREEK IMPROVEMENTS  
 SAN ANTONIO, TEXAS

Project Number: 00000000228497	Sheet No.: <b>20A403</b>
Scale: 1/8" = 1'-0"	
Drawn by: V. CARPILLLO	
Checked by: F. DE LA ROSA	



**VILLA LAGUNILLA  
MAIN CHANNEL PARTIAL PLAN**

4  
SCALE: 1" = 20'-0"

**LEGEND**

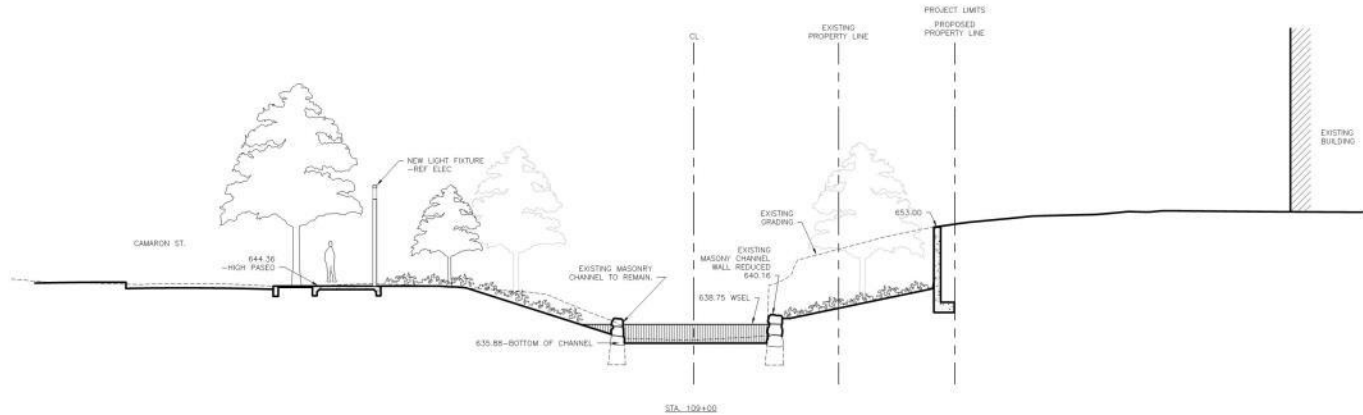
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RIPARIAN PLANTING	EXPOSED AGGREGATE CONCRETE PAVING	COMPOSITE DECKING	PROPOSED RIGHT OF WAY / LIMITS OF CONSTRUCTION
UPLAND PLANTING	STEEL DECKING	TURFGRASS AREA	

**SAN PEDRO CREEK IMPROVEMENTS**



1 2 3 4 5 6 7 8

PROPERTY LINE



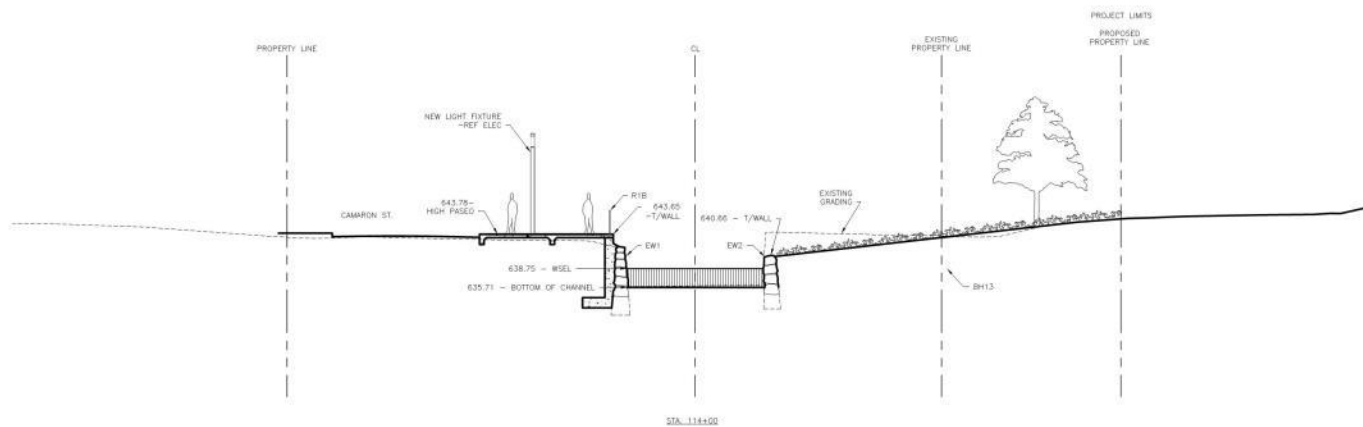
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STA 122+00

PROPERTY LINE



**SECTION**

SCALE: 1/8"=1'-0"



STA 114+00

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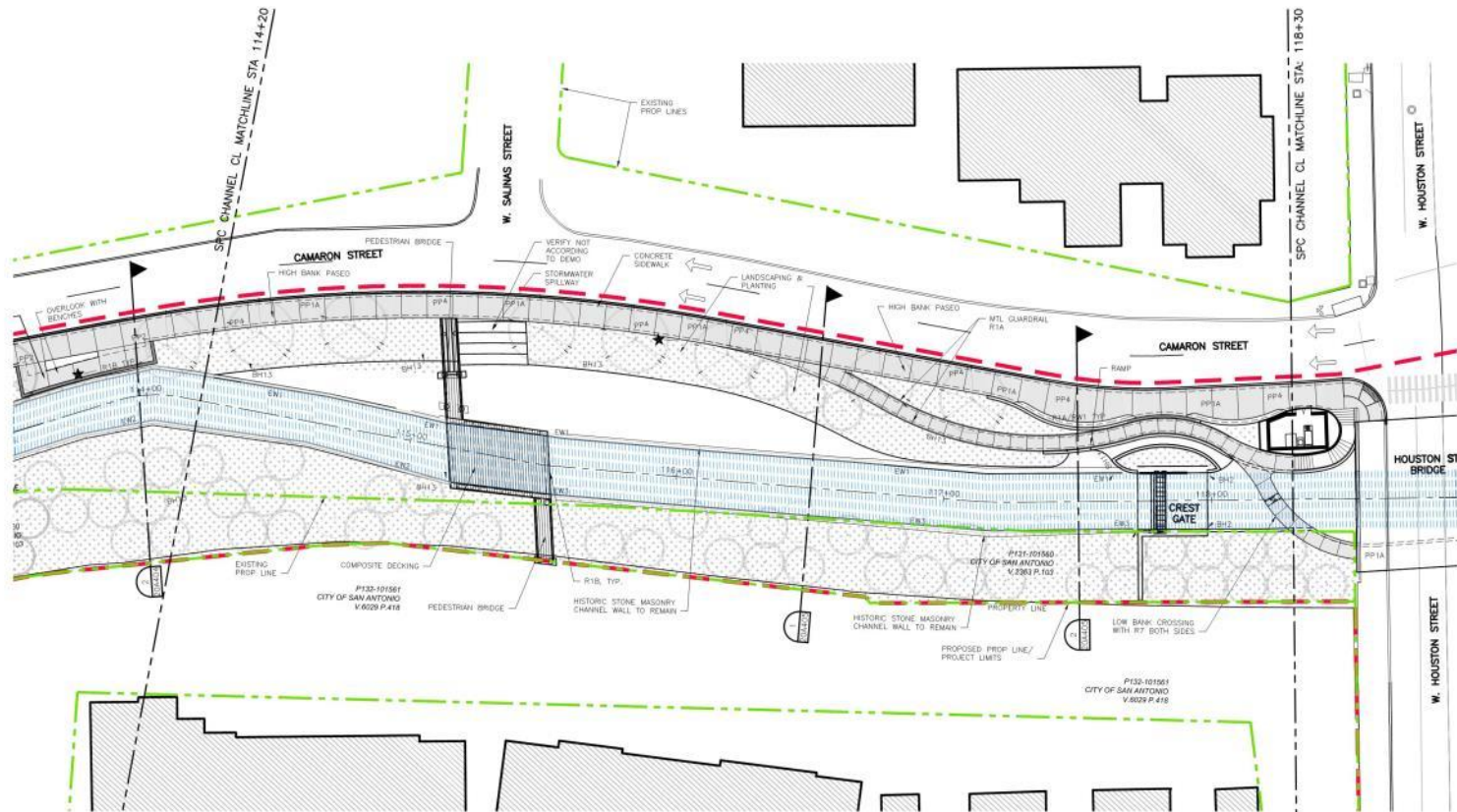
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**VILLA LAGUNILLA  
MAIN CHANNEL  
AREA SECTIONS**

SAN PEDRO CREEK IMPROVEMENTS  
SAN ANTONIO, TEXAS

Project Number: 00000000228497  
Scale: 1/8" = 1'-0"  
Date: \_\_\_\_\_  
Issued to: V. CARPHELO  
Drawn by: F. DE LA ROSA

Sheet No. 20A404



**VILLA LAGUNILLA  
MAIN CHANNEL PARTIAL PLAN**  
SCALE: 1" = 10'-0"  
0 10 20 30

- LEGEND**
- AQUATIC PLANTING
  - RIPARIAN PLANTING
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# SAN PEDRO CREEK IMPROVEMENTS

**SAN ANTONIO RIVER AUTHORITY**  
Leaders in Watershed Solutions

**PAPE-DAWSON ENGINEERS**

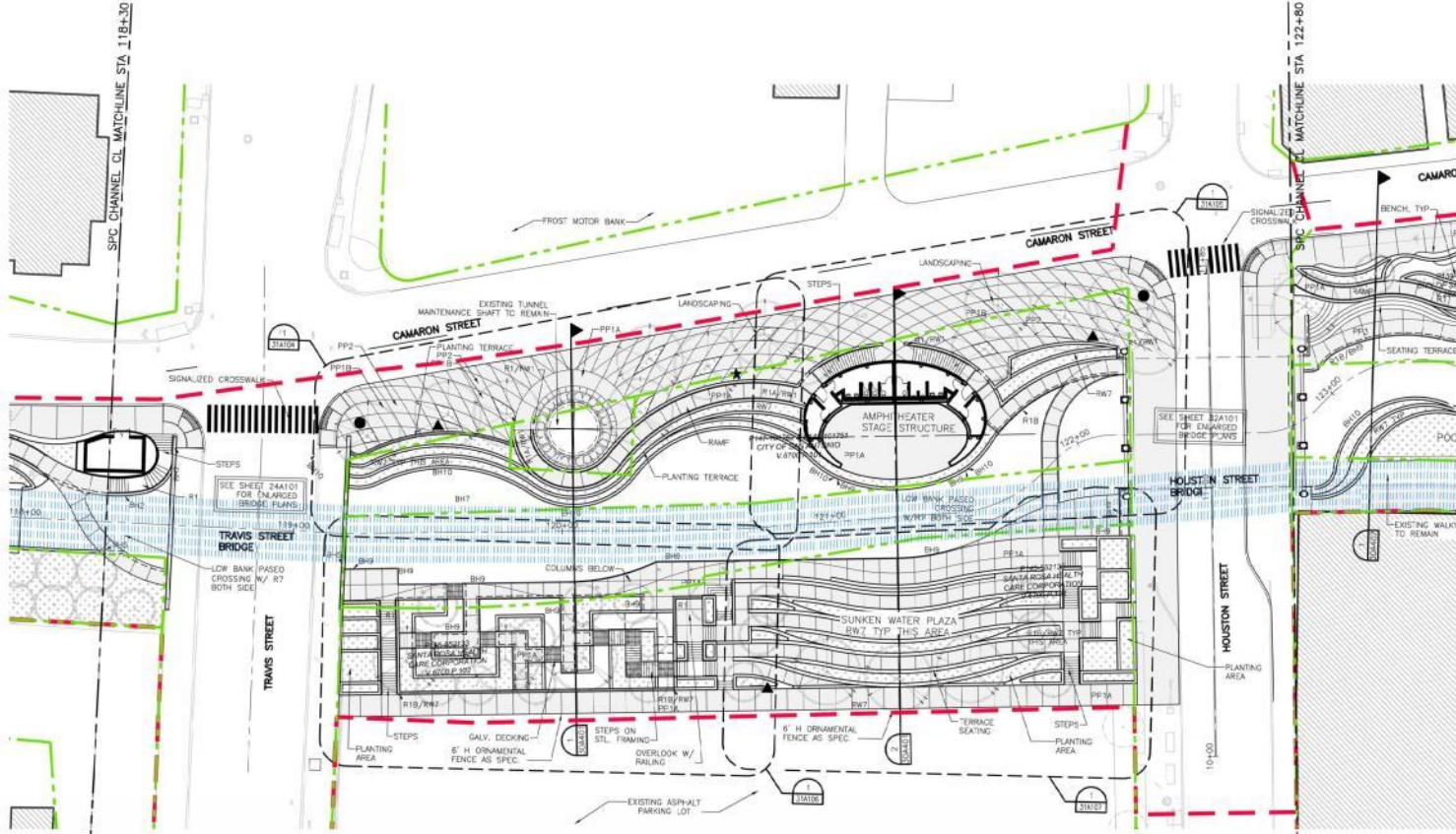
**muñoz**





# ALAMEDA/AGUA ANTIGUA





**ALAMEDA / AGUA ANTIGUA  
MAIN CHANNEL PARTIAL PLAN**

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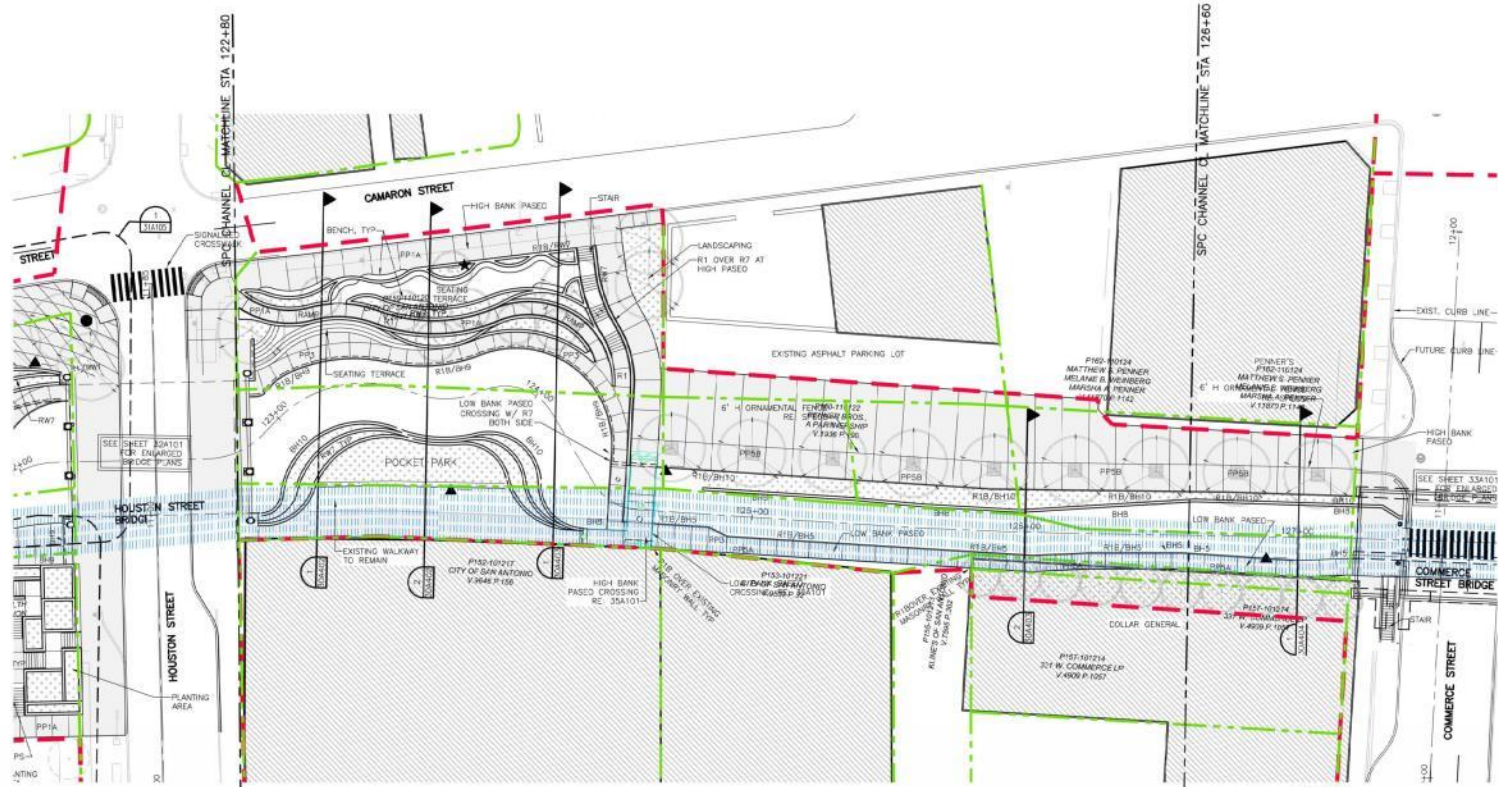
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	RIPARIAN PLANTING		EXPOSED AGGREGATE CONCRETE PAVING		COMPOSITE DECKING		PROPOSED RIGHT OF WAY / LIMITS OF CONSTRUCTION
	UPLAND PLANTING		STEEL DECKING		TURFGRASS AREA		

**SAN PEDRO CREEK IMPROVEMENTS**







**ALAMEDA / AGUA ANTIGUA  
MAIN CHANNEL PARTIAL PLAN**

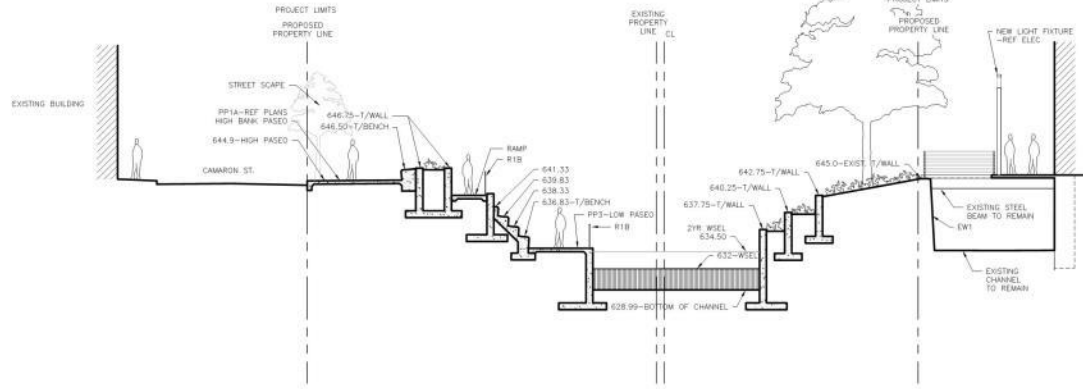
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**LEGEND**

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	RIPARIAN PLANTING		EXPOSED AGGREGATE CONCRETE PAVING		COMPOSITE DECKING		PROPOSED RIGHT OF WAY / LIMITS OF CONSTRUCTION
	UPLAND PLANTING		STEEL DECKING		TURFGRASS AREA		

**SAN PEDRO CREEK IMPROVEMENTS**

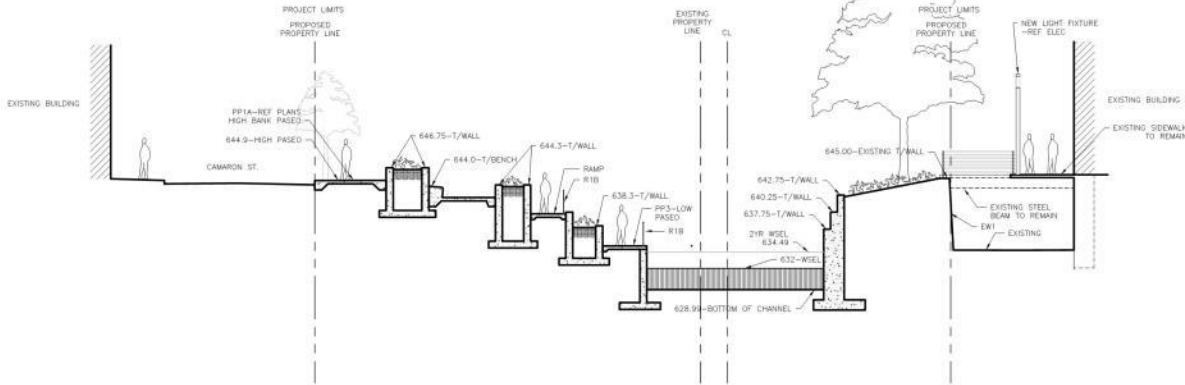




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STA. 123+20



**SECTION**

SCALE: 1/8"=1'-0"

STA. 123+68

ISSUE	DATE	DESCRIPTION
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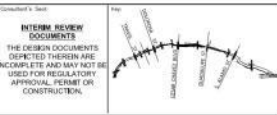
Prime Consultant  
**HDR**  
 Leaders in Watershed Solutions

muñoz  
 Consultant

Texas P.E. Firm  
 Registration No. F-754



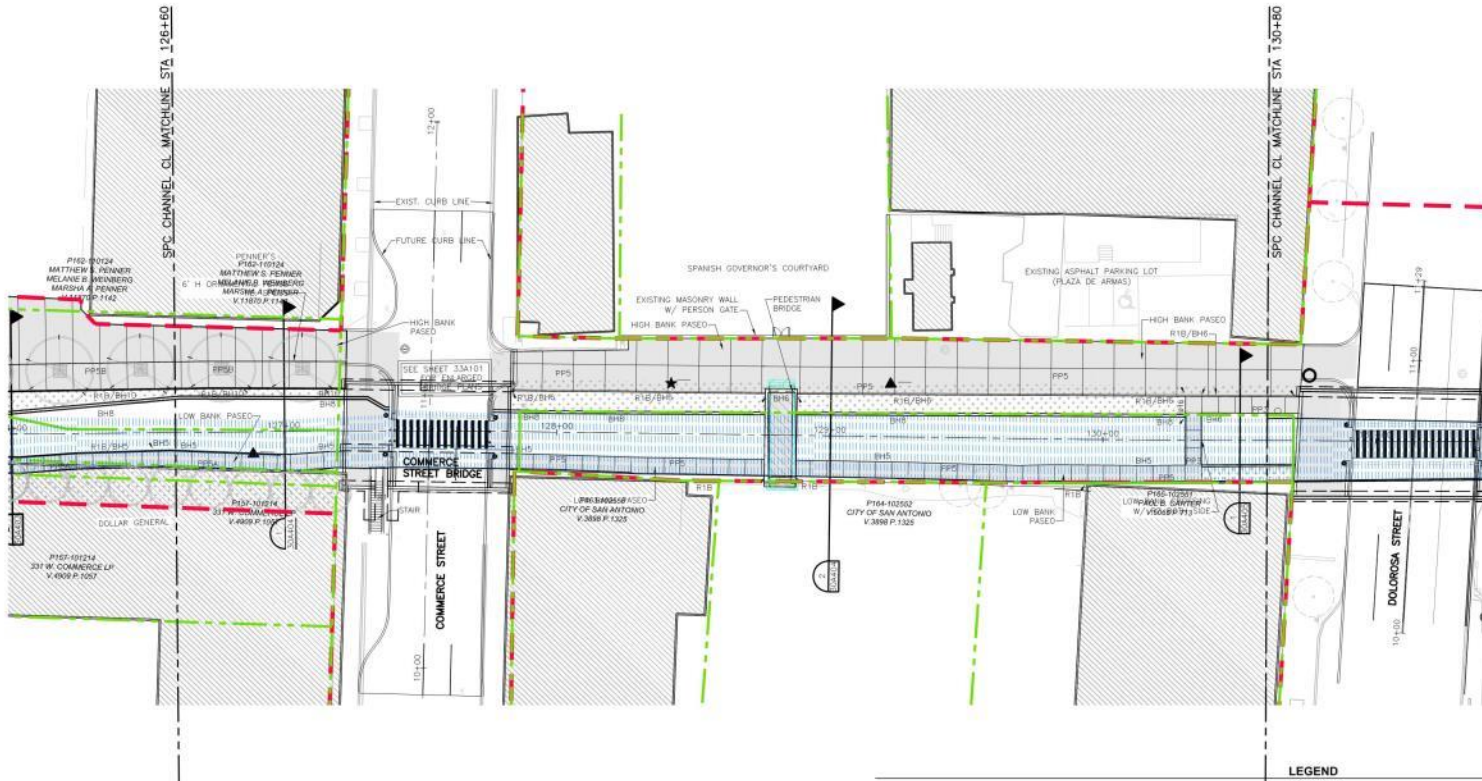
INTERIM REVIEW DOCUMENTS  
 THE DESIGN DOCUMENTS DEPICTED THEREIN ARE INCOMPLETE AND MAY NOT BE USED FOR REGULATORY APPROVAL, PERMIT OR CONSTRUCTION.



**ALAMEDA / AGUA ANTIGUA MAIN CHANNEL AREA SECTIONS**  
 SAN PEDRO CREEK IMPROVEMENTS  
 SAN ANTONIO TEXAS

Project Number: 00000000228497  
 Date: 1/8" = 1'-0"  
 Scale: 1/8" = 1'-0"  
 Drawn by: V. CARRILLO  
 Checked by: F. DE LA ROSA

Sheet No.: **30A402**



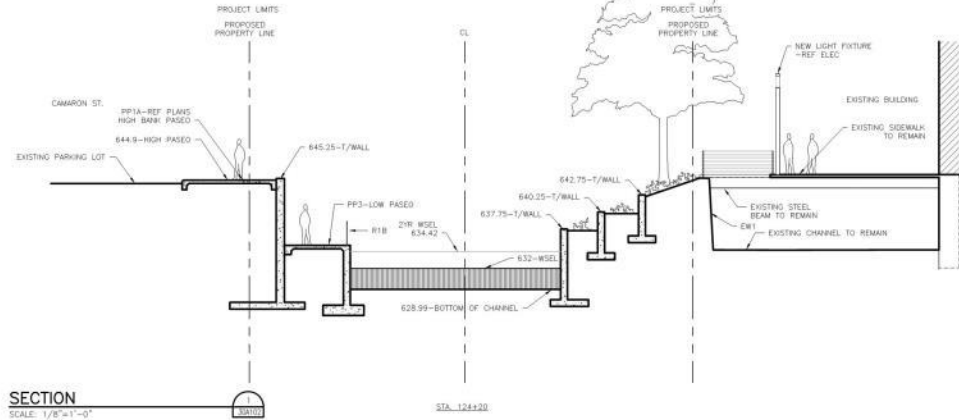
**ALAMEDA / AGUA ANTIGUA  
MAIN CHANNEL PARTIAL PLAN**

3  
SCALE: 1" = 20'-0"  
0 10' 20'

- LEGEND**
- AQUATIC PLANTING
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  - TURFGRASS AREA
  - PROPOSED RIGHT OF WAY / LIMITS OF CONSTRUCTION
  - EXISTING PROPERTY LINES

**SAN PEDRO CREEK IMPROVEMENTS**

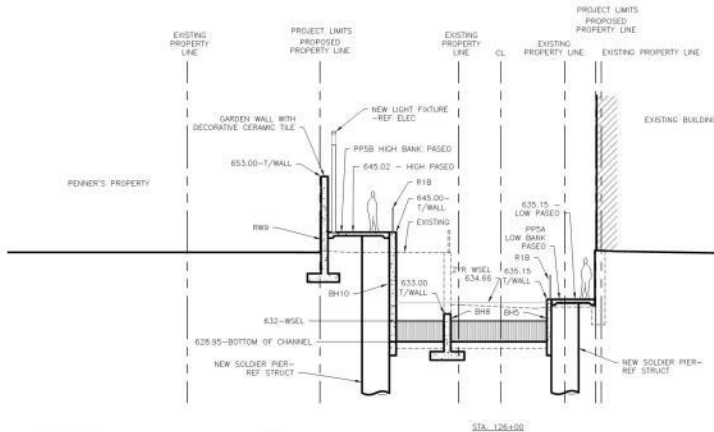




SECTION

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STA. 124+30



SECTION

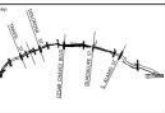
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STA. 126+00

ISSUE	DATE	DESCRIPTION
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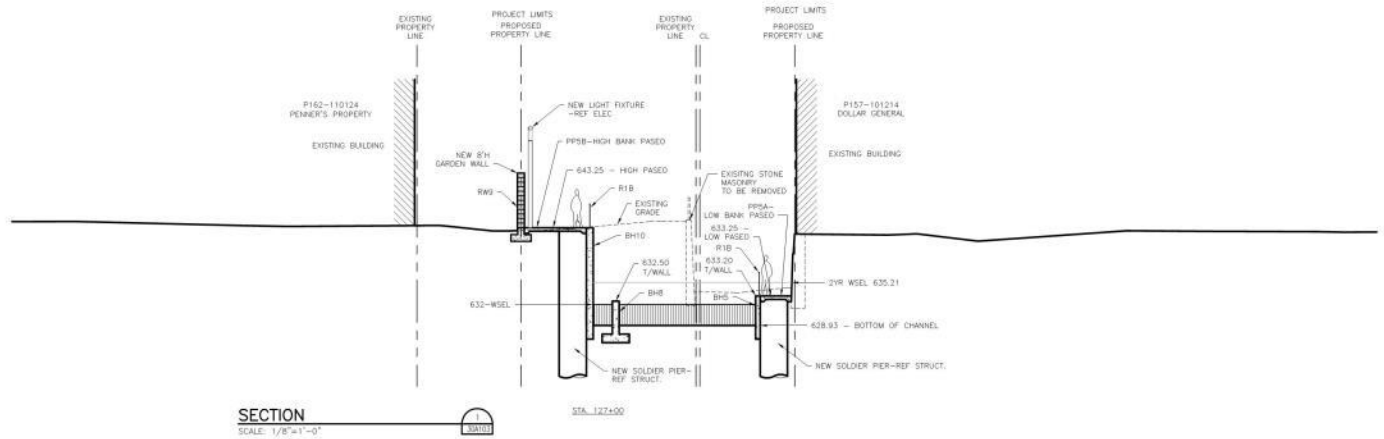


Interim Review Documents  
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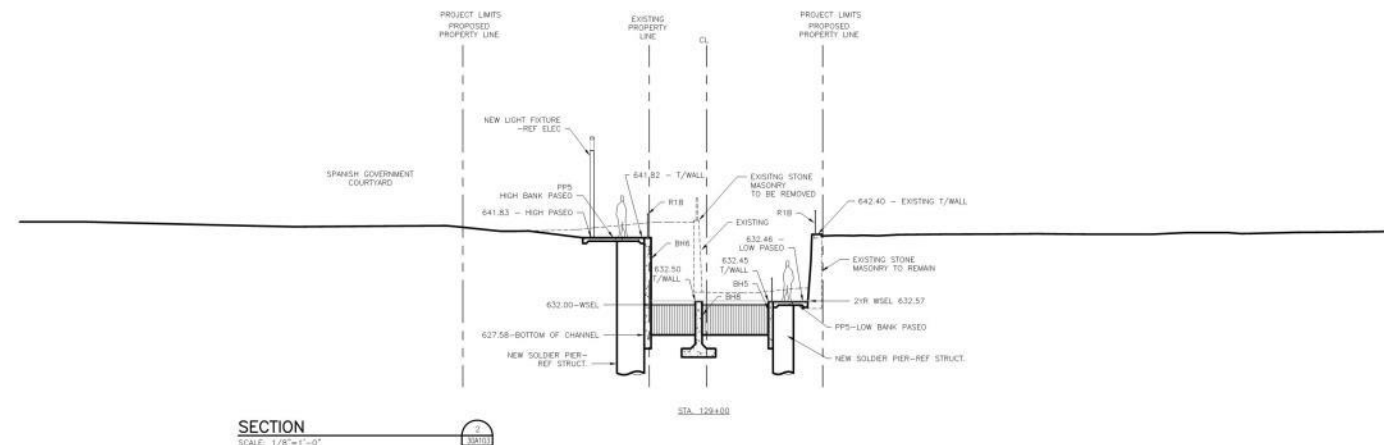


Alameda / Agua Antigua  
**MAIN CHANNEL AREA SECTIONS**  
 SAN PEDRO CREEK IMPROVEMENTS  
 SAN ANTONIO, TEXAS

Project Number: 00000000228497  
 Date: 1/5/14  
 Scale: 1/8"=1'-0"  
 Designer: V. CAMPBELL  
 Checker: F. DE LA ROSA  
 30A403



SECTION 1  
SCALE: 1/8"=1'-0"



SECTION 2  
SCALE: 1/8"=1'-0"

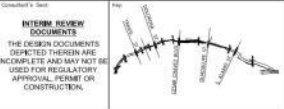
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**SAN ANTONIO RIVER AUTHORITY**  
 Leaders in Watershed Solutions

  
**HDR**  
 Texas P.E. Firm  
 Registration No. F-754

  
**muñoz**

Consultant's Seal  
 INTERIM REVIEW DOCUMENTS  
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Drawing Name  
**ALAMEDA / AGUA ANTIGUA MAIN CHANNEL AREA SECTIONS**  
 SAN PEDRO CREEK IMPROVEMENTS  
 SAN ANTONIO, TEXAS

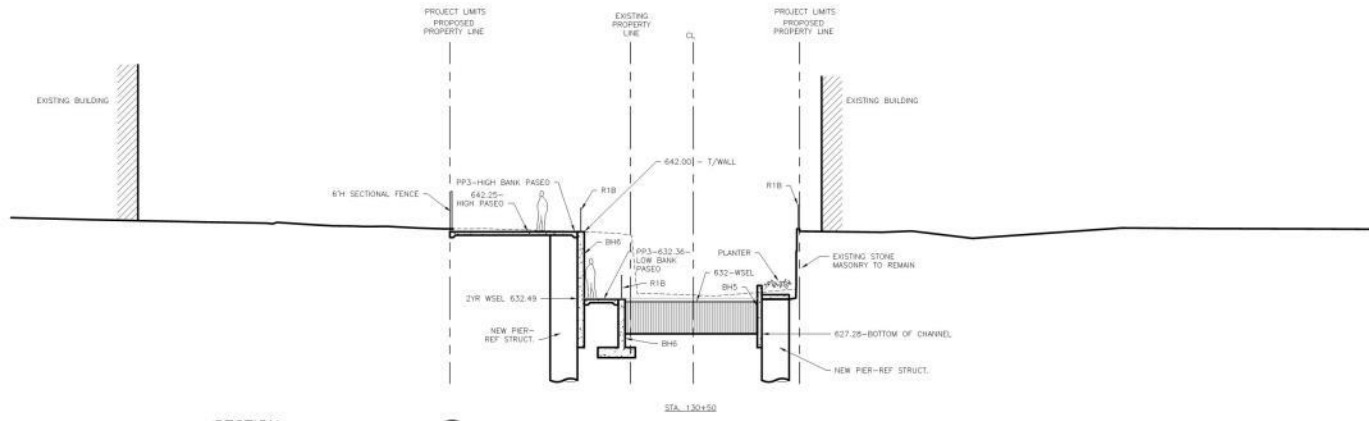
Project Number  
 00000000228497  
 Scale  
 1/8" = 1'-0"  
 Date  
 07/31/2015

Drawing No.  
**30A404**

Revision to  
 V. CARRILLO  
 Drawn by  
 F. DE LA ROSA

  
APP. 1/2" = 1' ON ORIGINAL, 1/8" = 1' ON THIS COPY. (SEE NOTE 1)






**SECTION**  
SCALE: 1/8"=1'-0"

ISSUE	DATE	DESCRIPTION
07/31/2015	70%	SUBMITTAL
03/27/2015	40%	SUBMITTAL

  
**SAN ANTONIO RIVER AUTHORITY**  
 Leaders in Watershed Solutions  
 Texas P.E. Firm  
 Registration No. F-754

Prime Consultant:   
 Consultant's Seal: 

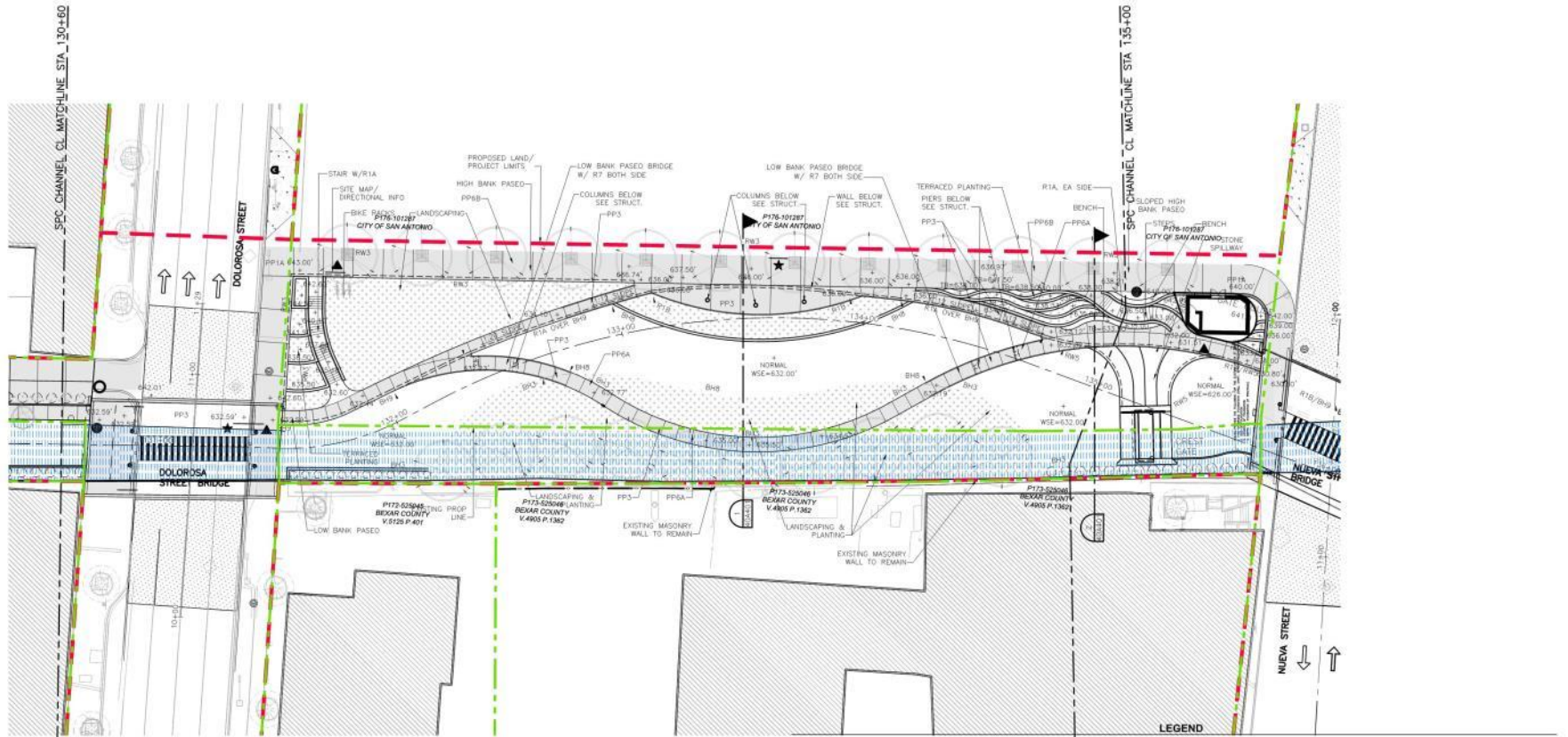
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Drawing Name: **ALAMEDA / AGUA ANTIGUA MAIN CHANNEL AREA SECTIONS**  
 SAN PEDRO CREEK IMPROVEMENTS  
 SAN ANTONIO, TEXAS  
 Project Number: 00000000228497  
 Date: 1/8" = 1'-0"  
 Scale:  
 Drawn by: V. CARRELL  
 Checked by: F. DE LA ROSA

Drawing No.: **30A405**  
  
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 PLOTTER: HPGL-DESIGN CENTER  
 PLOTTING METHOD: AUTOCAD

# EL MERODEO





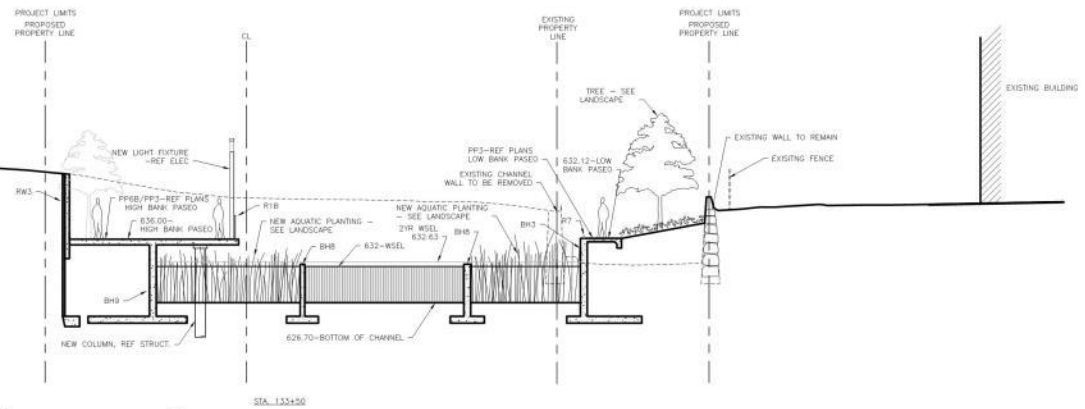
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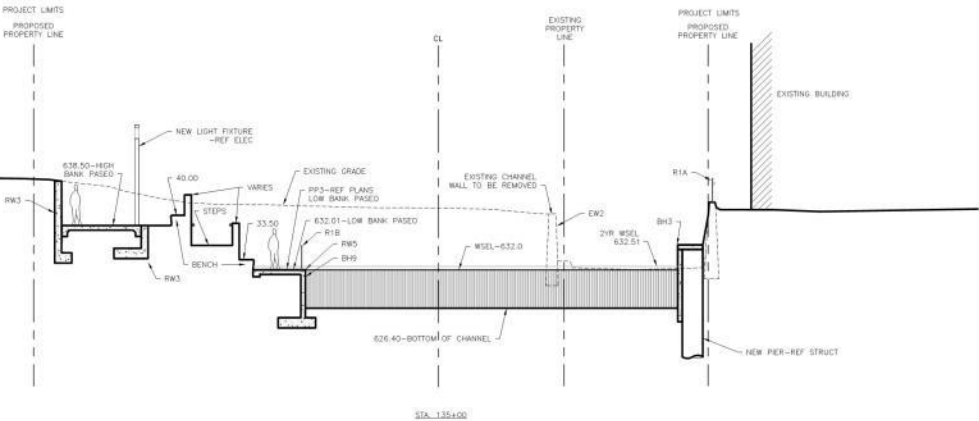
- LEGEND**
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  - EXISTING CREEK FOOTPRINT
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  - STEEL DECKING
  - TURFGRASS AREA

**SAN PEDRO CREEK IMPROVEMENTS**





SECTION  
SCALE: 1/8"=1'-0"  
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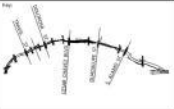
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ISSUE	DATE	DESCRIPTION
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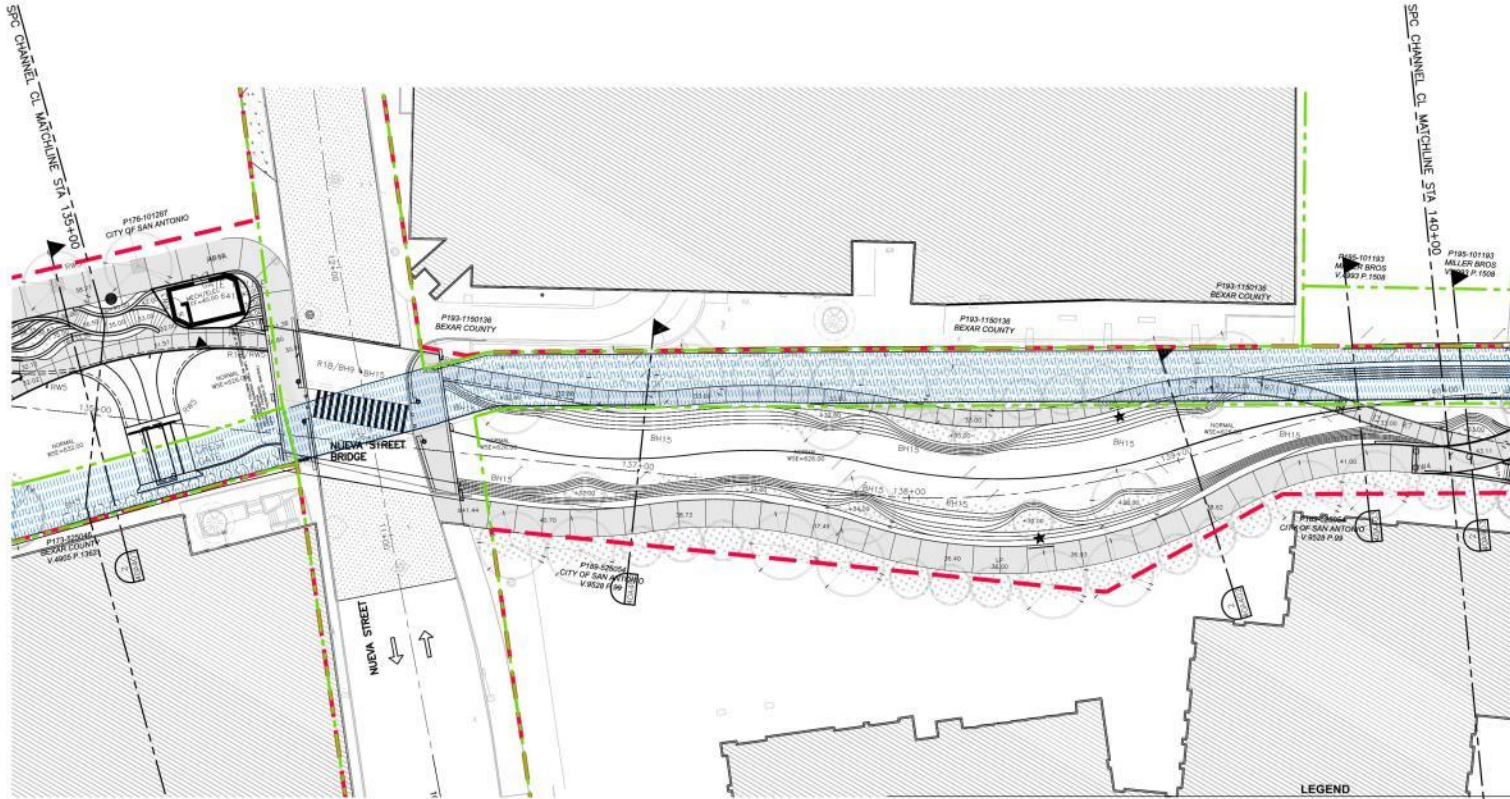
  
**muñoz**



**EL MERODEO MAIN CHANNEL AREA SECTIONS**  
 SAN PEDRO CREEK IMPROVEMENTS  
 SAN ANTONIO, TEXAS

Project Number:  
 00000000228497  
 Date:  
 1/8" = 1'-0"  
 Scale:  
 Drawn by:  
 V. CAMPBELL  
 Check by:  
 F. DE LA ROSA

**40A401**



**EL MERODEO MAIN CHANNEL PARTIAL PLAN**



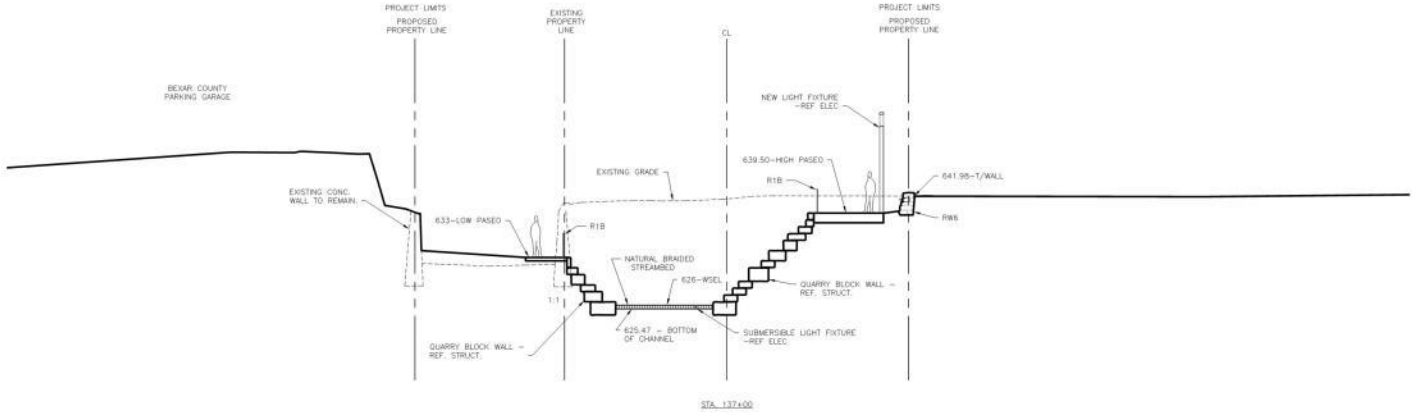
**LEGEND**

	AQUATIC PLANTING		CONCRETE PAVING		EXISTING CREEK FOOTPRINT
	RIPARIAN PLANTING		EXPOSED AGGREGATE CONCRETE PAVING		COMPOSITE DECKING
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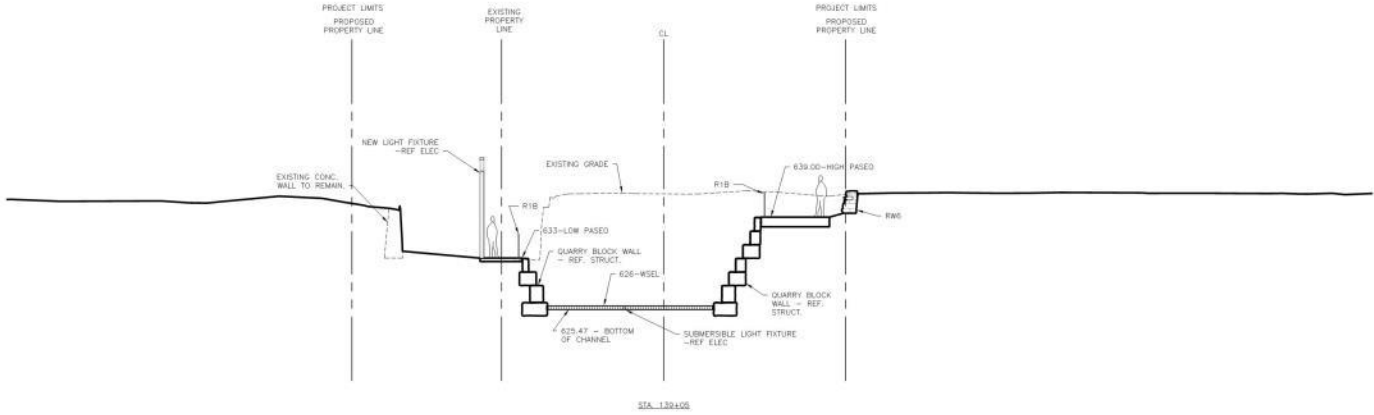
**SAN PEDRO CREEK IMPROVEMENTS**



1 2 3 4 5 6 7 8



SECTION  
SCALE: 1/8"=1'-0"



SECTION  
SCALE: 1/8"=1'-0"

ISSUE	DATE	DESCRIPTION
07/31/2015	70%	SUBMITTAL
03/27/2015	40%	SUBMITTAL

Project Consultant:



Leaders in Watershed Solutions

**HDR**

Texas P.E. Firm  
Registration No. F-754

Contractor:



Contractor's Seal:

**INTERIM REVIEW DOCUMENTS**  
THE DESIGN DOCUMENTS DEPICTED THEREIN ARE INCOMPLETE AND MAY NOT BE USED FOR REGULATORY APPROVAL, PERMIT OR CONSTRUCTION.



Drinking Water:

**EL MERODEO  
MAIN CHANNEL  
AREA SECTIONS**

SAN PEDRO CREEK IMPROVEMENTS  
SAN ANTONIO, TEXAS

Project Number: 0000000228497  
Scale: 1/8"=1'-0"  
Date:  

Reviewed by:  
V. CARRILLO  
Checked by:  
F. DE LA ROSA

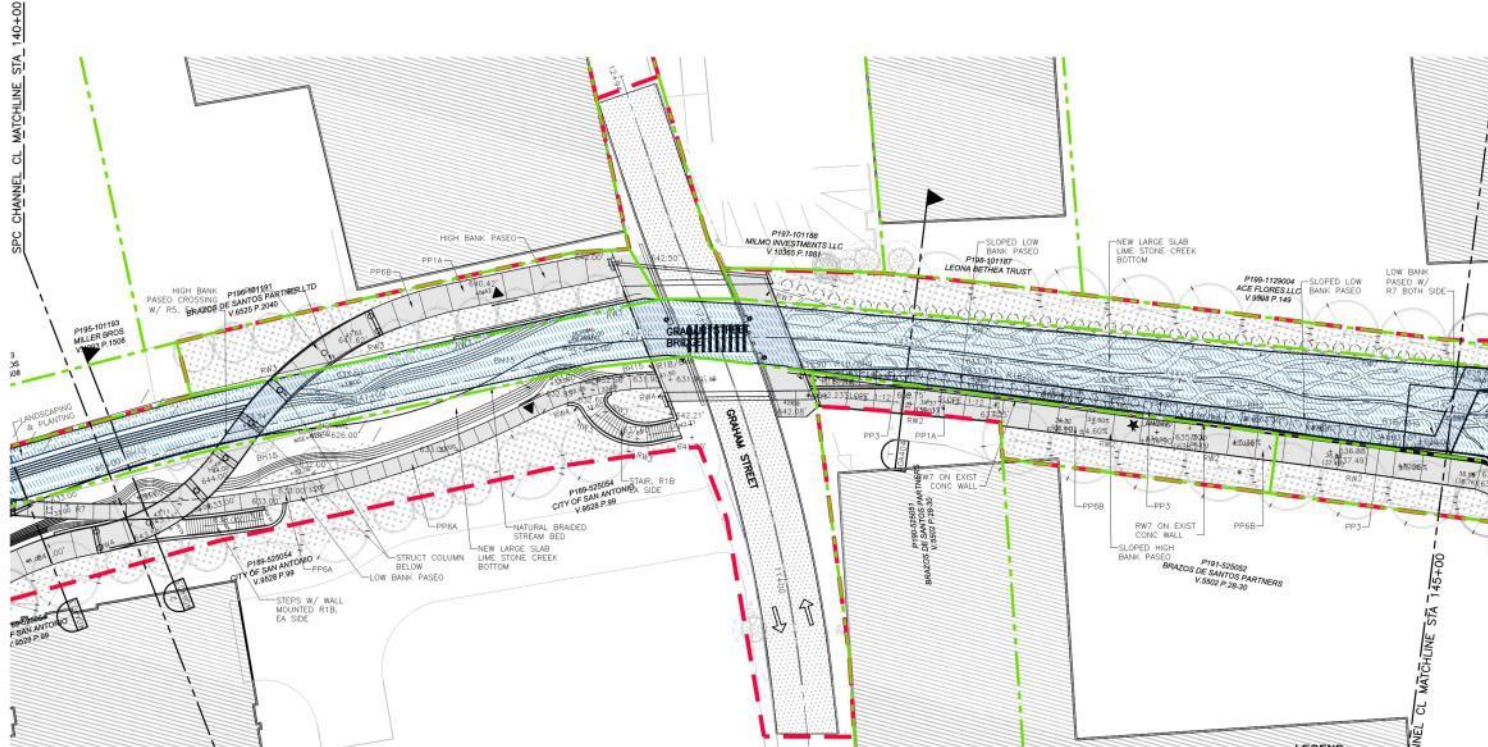
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Drawing No. **40A402**



APP: 2/20/15 by DR/MS/CB  
DRAWING: 2/20/15 by DR/MS/CB  
PROJECT: 40A402

D  
C  
B  
A



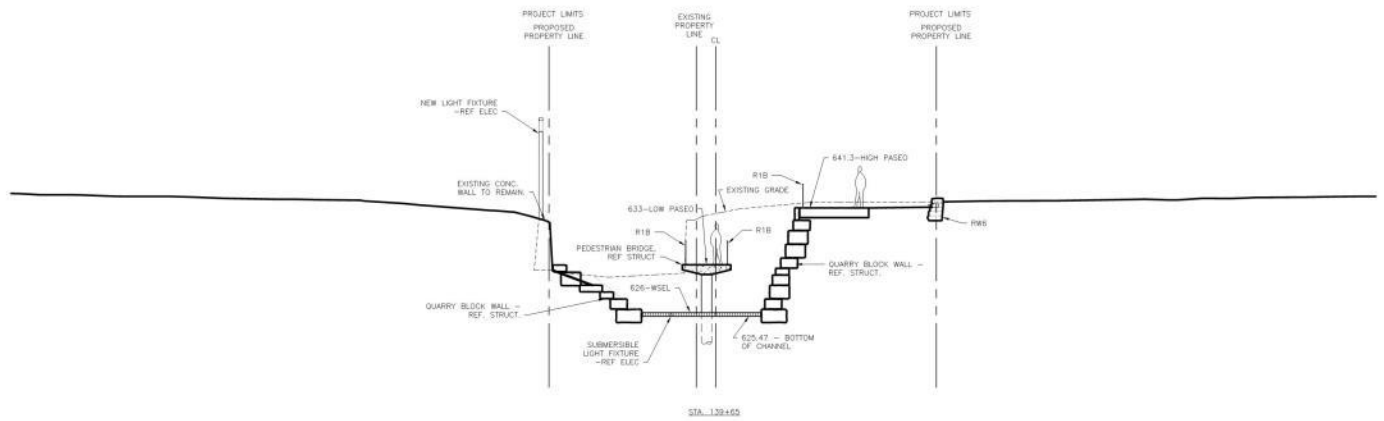
**EL MERODEO MAIN CHANNEL PARTIAL PLAN**  
 SCALE: 1" = 20'-0"  
 3

**LEGEND**

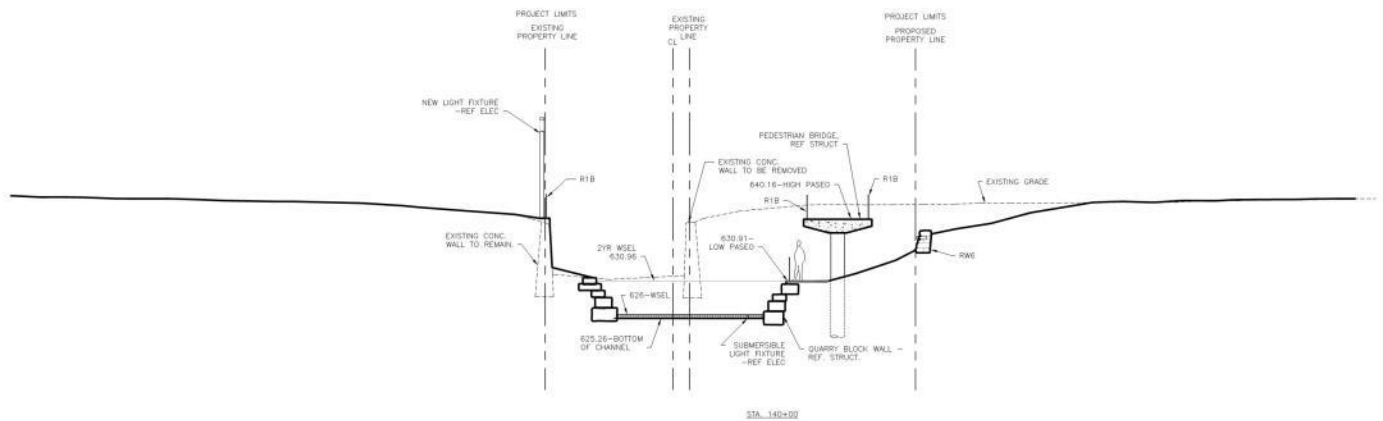
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	RIPARIAN PLANTING		EXPOSED AGGREGATE CONCRETE PAVING		COMPOSITE DECKING		PROPOSED RIGHT OF WAY / LIMITS OF CONSTRUCTION
	UPLAND PLANTING		STEEL DECKING		TURFGRASS AREA		

**SAN PEDRO CREEK IMPROVEMENTS**





SECTION  
SCALE: 1/8"=1'-0"



SECTION  
SCALE: 1/8"=1'-0"

07/31/2015	70% SUBMITTAL	
05/27/2015	40% SUBMITTAL	
<b>ISSUE</b>	<b>DATE</b>	<b>DESCRIPTION</b>

Prime Consultant

**SAN ANTONIO RIVER AUTHORITY**  
Leaders in Watershed Solutions

**HDR**  
Texas P.E. Firm  
Registration No. F-754

Contractor

**muñoz**

Consultant's Seal

**INTERIM REVIEW DOCUMENTS**  
THE DESIGN DOCUMENTS DEPICTED THEREIN ARE INCOMPLETE AND MAY NOT BE USED FOR REGULATORY APPROVAL, PERMIT OR CONSTRUCTION.

Drawing Name

**EL MERODEO MAIN CHANNEL AREA SECTIONS**

SAN PEDRO CREEK IMPROVEMENTS  
SAN ANTONIO, TEXAS

Project Number:  
00000000228497

Date:  
1/8"-1/4"

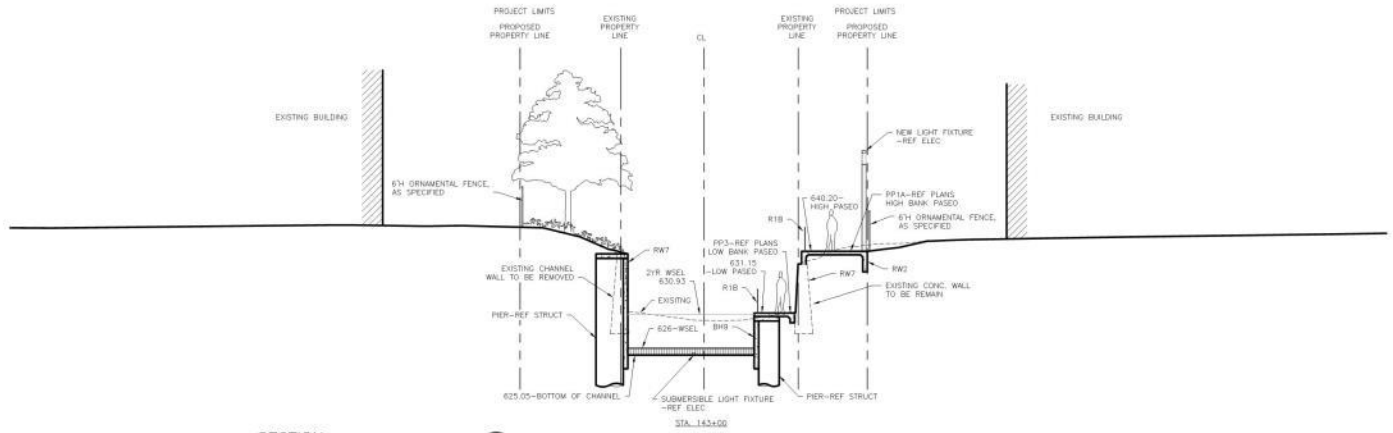
Sheet:  
40A403

Revised by:  
V. CARPENTER

Checked by:  
F. DE LA ROSA

Author: [Signature]






**SECTION**  
SCALE: 1/8"=1'-0"

ISSUE	DATE	DESCRIPTION
07/31/2015	70%	SUBMITTAL
05/27/2015	40%	SUBMITTAL

  
**SAN ANTONIO RIVER AUTHORITY**  
 Leaders in Watershed Solutions  
  
**HDR**  
 Texas P.E. Firm  
 Registration No. F-754

  
**muñoz**

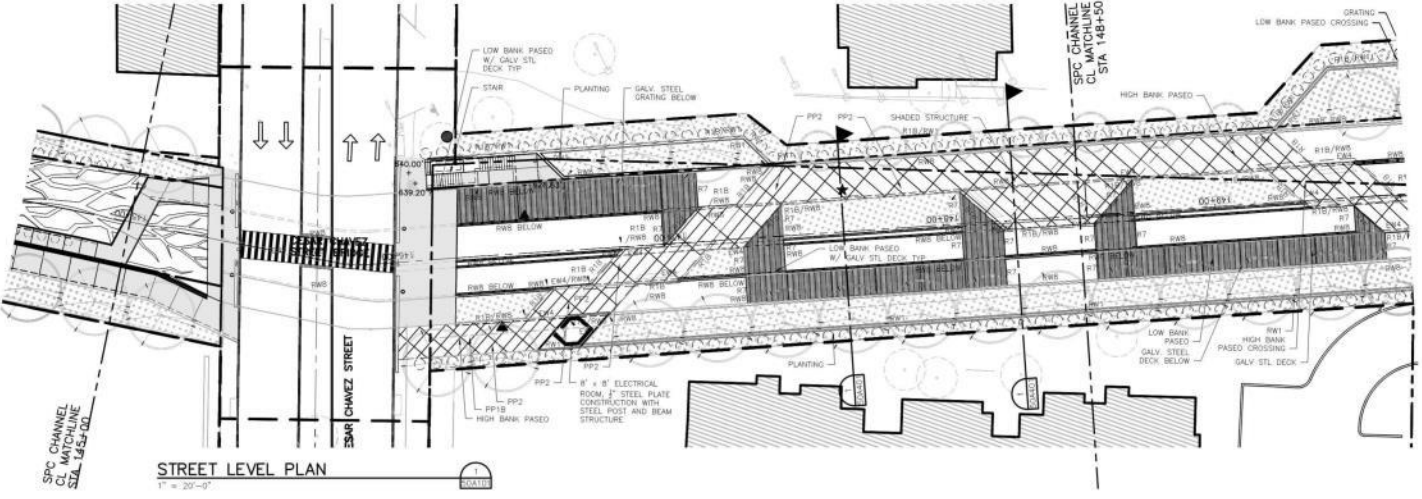
INTERIM REVIEW DOCUMENTS  
 THE DESIGN DOCUMENTS DEPICTED THEREIN ARE INCOMPLETE AND MAY NOT BE USED FOR REGULATORY APPROVAL, PERMIT OR CONSTRUCTION.  


**EL MERODEO MAIN CHANNEL AREA SECTIONS**  
 SAN PEDRO CREEK IMPROVEMENTS  
 SAN ANTONIO, TEXAS  
 Project Number: 00000000228497  
 Scale: 1/8" = 1'-0"  
 Designer: Y. CARRELL  
 Checker: F. DE LA ROSA

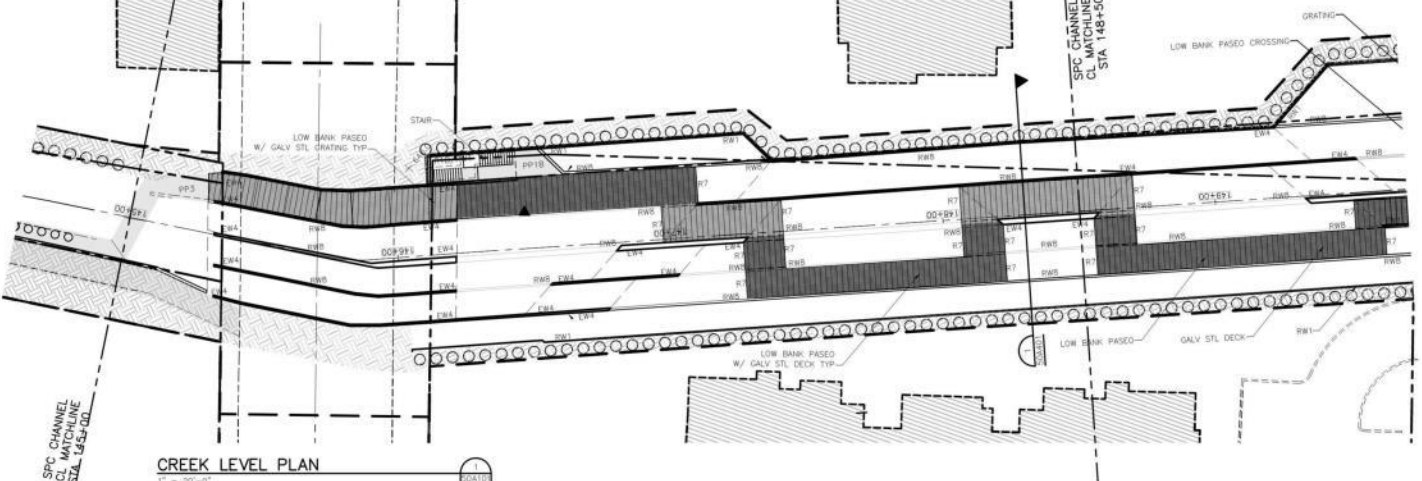
Drawing No. **40A404**  
  
 SAN ANTONIO, TEXAS

# CANAL PRINCIPAL





**STREET LEVEL PLAN**  
1" = 20'-0"



**CREEK LEVEL PLAN**  
1" = 20'-0"

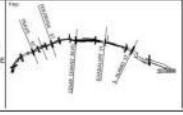
- EXISTING WALL TYPES**
- EX1 EXISTING STONE MASONRY WALL STABILIZE RETAIN AND REPAIR
  - EX2 EXISTING STONE MASONRY WALL LOWBANK TO NEW LOW ELEVATION EXISTING STAIRS AND EXISTING STONE MASONRY PIERS FOR STAIRS TO BE DESTROYED AND REBUILT WITH 24" REINFORCED CONCRETE
  - EX3 EXISTING STONE MASONRY WALL W/ CONCRETE REINFORCEMENT AND REPAIR PROVIDE NEW 4" THICK STONE COPIING REPAIR AND REPAIR EXISTING CONCRETE WALL
  - EX4 EXISTING CONCRETE WALL TO REMAIN REMOVE UPPER PORTION WALL TO NEW ELEVATION AS NOTICED
- REFS TO SHEET GROUP & BOARD FOR ARCHITECTURAL REBAR TYPES**
- REFS TO SHEET GROUP FOR ARCHITECTURAL RETAINING WALL TYPES
  - REFS TO SHEETS GROUP BOARD A BOARD FOR ARCHITECTURAL PILING TYPES
  - REFS TO SHEET GROUP FOR CONCRETE SIDEWALK TYPES
- ENTRY MARKER**
- ★ HYDROTHERM GRAPHICS
  - ▲ MAP/ORIENTAL INFO
- CONCRETE FINISH – REFER ARCHITECTURAL PLAN SERIES AND BOARD FOR LOCATIONS AND SPECIFIC TYPES**
- NATURAL CONCRETE FINISH W/ PATTERN IN EXPOSED SURFACE FINISH – REFER TO ARCHITECTURAL PLAN SERIES AND BOARD FOR LOCATIONS AND SPECIFIC TYPES**
- SHADES OR UNSHADED STEEL GRATING – REFER TO ARCHITECTURAL PLAN SERIES FOR LOCATIONS AND TYPES**
- COMPOSITE DECKING – REFER TO ARCHITECTURAL PLAN SERIES FOR LOCATIONS AND TYPES**

ISSUE	DATE	DESCRIPTION
	07/31/2015	70% SUBMITTAL
	03/27/2015	40% SUBMITTAL



Intervenor's Seal

**INTERIM REVIEW DOCUMENTS**  
THE DESIGN DOCUMENTS SUBMITTED TO THIS DATE ARE INCOMPLETE AND MAY NOT BE USED FOR REGULATORY APPROVAL, PERMIT OR CONSTRUCTION.



Project Name: **CANAL PRINCIPAL MAIN CHANNEL PARTIAL SITE PLAN**

Project Number: 00000000229407

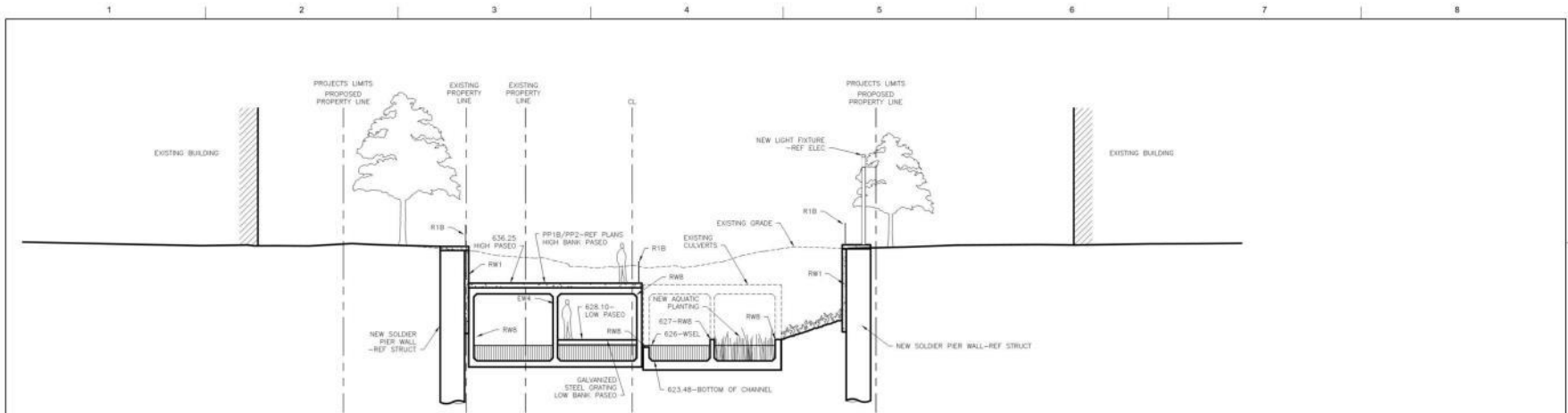
Scale: 1" = 20'-0"

Author: Y. GARRILLO

Drawn By: Y. YANG

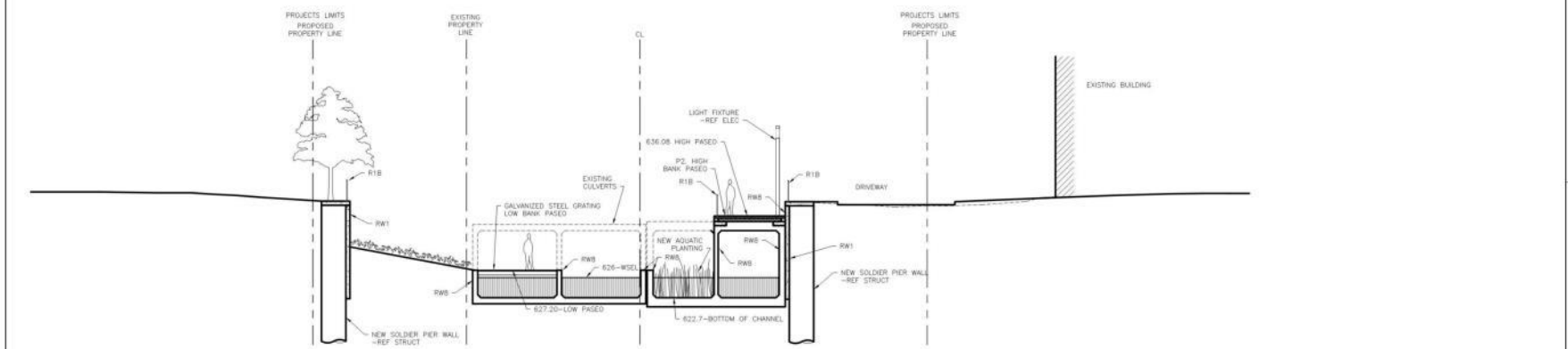
Drawing No: **50A101**

SAN PEDRO CREEK IMPROVEMENTS  
SAN ANTONIO TEXAS



**SECTION**  
SCALE: 1/8"=1'-0"

STA. 148+25



**SECTION**  
SCALE: 1/8"=1'-0"

STA. 150+50

ISSUE	DATE	DESCRIPTION
07/31/2015	70%	SUBMITTAL
03/27/2015	40%	SUBMITTAL

**SAN ANTONIO RIVER AUTHORITY**  
 Leaders in Watershed Solutions

**HDR**  
 Texas P.E. Firm  
 Registration No. F-754

**muñoz**

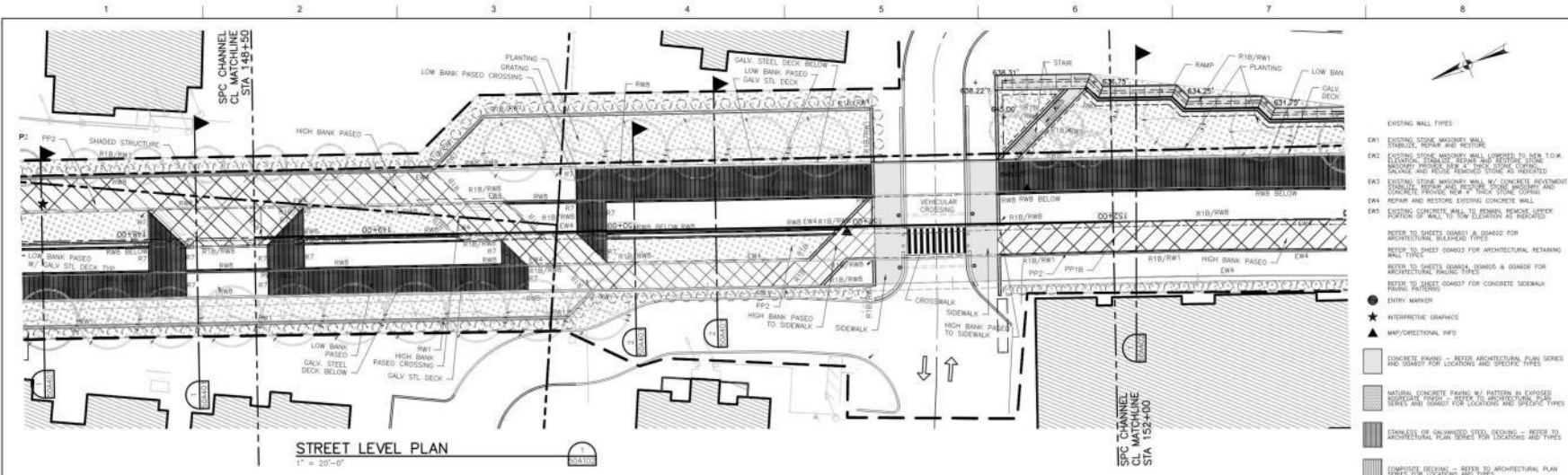
**SAN ANTONIO RIVER AUTHORITY**

**INTERIM REVIEW DOCUMENTS**  
 THE DESIGN DOCUMENTS DEPICTED THEREIN ARE INCOMPLETE AND MAY NOT BE USED FOR REGULATORY APPROVAL, PERMIT OR CONSTRUCTION.

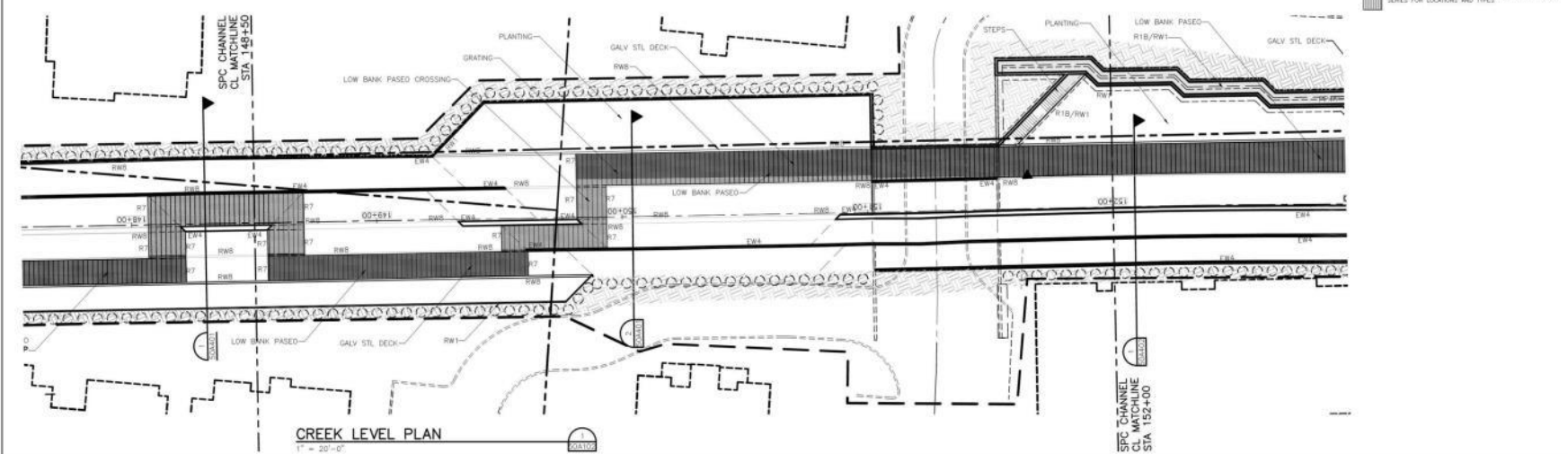
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 SAN PEDRO CREEK IMPROVEMENTS  
 SAN ANTONIO, TEXAS

Project Number: 05000000228497  
 Scale: 1/8" = 1'-0"  
 Date:  
 Designer: V. CARABELLO  
 Checker: F. DE LA ROSA

**50A401**



STREET LEVEL PLAN  
1" = 20'-0"



CREEK LEVEL PLAN  
1" = 20'-0"

- EXISTING WALL TYPES**
- EX1 EXISTING STONE MASONRY WALL - STABILIZE, REPAIR AND RESTORE
  - EX2 EXISTING STONE MASONRY WALL LOWEST TO NEW 10'0" ELEVATION. EXISTING STAIRS AND EXISTING STONE MASONRY IMPEDING PARKWAY. REPAIR AND RESTORE. STAIRS TO BE DEMOLISHED AND RECONSTRUCTED.
  - EX3 EXISTING STONE MASONRY WALL W/ CONCRETE RETAINMENT. STAIRS AND EXISTING STONE MASONRY AND CONCRETE PROVIDE NEW 4" THICK STONE COPIING.
  - EX4 EXISTING CONCRETE WALL TO REMAIN. REMOVE UPPER PORTION AND REBUILD EXISTING CONCRETE WALL.
- NOTES TO SHEET OS007 FOR ARCHITECTURAL/PAVED TYPES**
- REFER TO SHEET OS007 FOR ARCHITECTURAL RETAINING WALL TYPES
  - REFER TO SHEET OS007 FOR ARCHITECTURAL PAVED TYPES
  - REFER TO SHEET OS007 FOR CONCRETE SIDEWALK
- KEY**
- ENTRY MARKER
  - ★ HYDROTHERMIC GRAPHICS
  - ▲ MAP/ORIENTATIONAL INFO
- CONCRETE FINISH - REFER TO ARCHITECTURAL PLAN SERIES AND OS007 FOR LOCATIONS AND SPECIFIC TYPES**
- NATURAL CONCRETE PAVING W/ PATTERN IN EXPOSED SIDEWALK FINISH - REFER TO ARCHITECTURAL PLAN SERIES AND OS007 FOR LOCATIONS AND SPECIFIC TYPES**
- SHADING OR UNFINISHED STEEL FINISHING - REFER TO ARCHITECTURAL PLAN SERIES FOR LOCATIONS AND TYPES**
- COMPOSITE DECKING - REFER TO ARCHITECTURAL PLAN SERIES FOR LOCATIONS AND TYPES**

ISSUE	DATE	DESCRIPTION
	07/31/2015	70% SUBMITTAL
	03/27/2015	40% SUBMITTAL

San Antonio River Authority  
**SAR**  
 Leaders in Watershed Solutions  
 Texas P.E. Firm  
 Registration No. F-754

muñoz

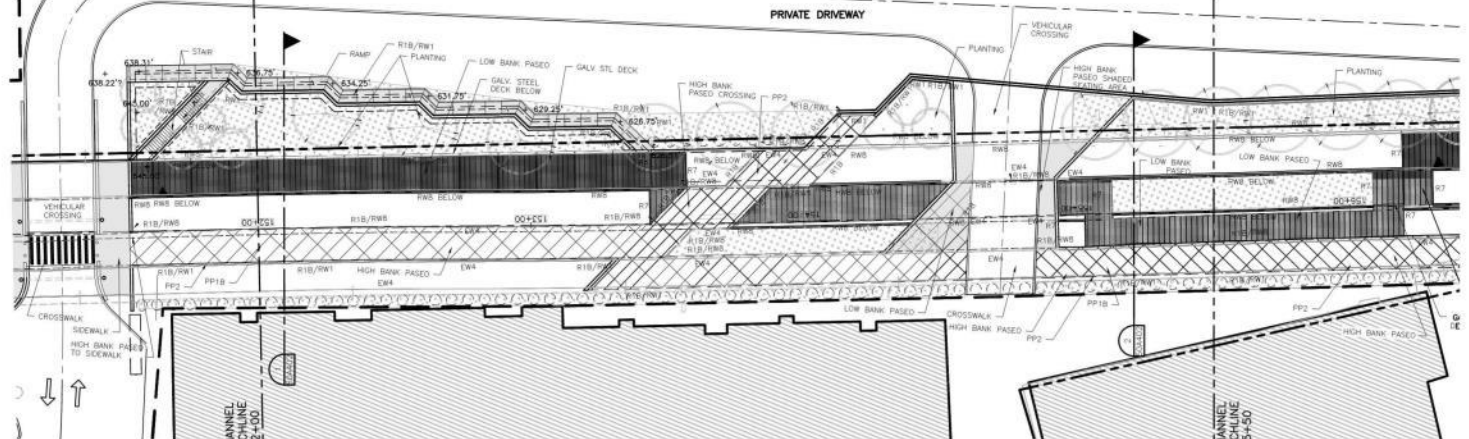
INTERNAL REVIEW DOCUMENTS  
 THE DESIGN DOCUMENTS SUBMITTED TO THIS AGENCY ARE INCOMPLETE AND MAY NOT BE USED FOR REGULATORY APPROVAL, PERMIT OR CONSTRUCTION.

**CANAL PRINCIPAL MAIN CHANNEL PARTIAL SITE PLAN**

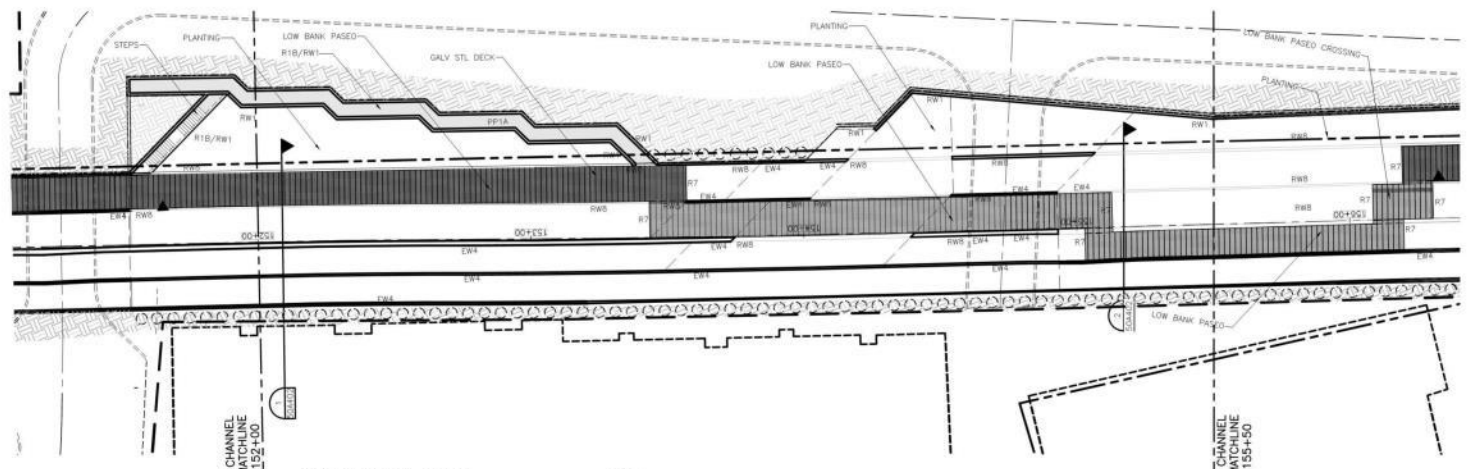
SAN PIEDRO CREEK IMPROVEMENTS  
SAN ANTONIO TEXAS

Project Number: 00000000229407  
 Scale: 1" = 20'-0"  
 Reviewed by: S. CARROLL  
 Drawn by: Y. YANG

Drawing No. 50A102



**STREET LEVEL PLAN**  
1" = 20'-0"



**CREEK LEVEL PLAN**  
1" = 20'-0"

- EXISTING WALL TYPES
- EK1 EXISTING STONE MASONRY WALL  
STABILIZE REPAIR AND RESTORE
  - EK2 EXISTING STONE MASONRY WALL LOWERED TO NEW LOW  
WATER ELEVATION. STABILIZE AND RESTORE STONE  
MASONRY. RESTORE RAMP
  - EK3 EXISTING STONE MASONRY WALL W/ CONCRETE REINFORCEMENT  
STABILIZE AND RESTORE STONE MASONRY AND  
CONCRETE. PROVIDE NEW 4" THICK STONE COPIING  
REPAIR AND RESTORE EXISTING CONCRETE WALL.
  - EK4 EXISTING CONCRETE WALL TO REMAIN. REMOVE UPPER  
PORTION AND RESTORE EXISTING CONCRETE WALL.
- REFERS TO SHEET GOA007 FOR DETAILS FOR  
ARCHITECTURAL REINFORCED TYPES
- REFERS TO SHEET GOA007 FOR ARCHITECTURAL RETAINING  
WALL TYPES
- REFERS TO SHEETS GOA004, GOA005 & GOA006 FOR  
ARCHITECTURAL FINISH TYPES
- REFERS TO SHEET GOA007 FOR CONCRETE SIDEWALK  
FINISH TYPES
- ENTRY MARKER
  - ★ HYDRORETIC GRAPHICS
  - ▲ MAP/ORIENTAL INFO
- CONCRETE FINISH – REFER TO ARCHITECTURAL PLAN SERIES  
AND ISOMET FOR LOCATIONS AND SPECIFIC TYPES
- NATURAL CONCRETE FINISH W/ PATTERN IN EXPOSED  
SURFACES FINISH – REFER TO ARCHITECTURAL PLAN  
SERIES AND ISOMET FOR LOCATIONS AND SPECIFIC TYPES
- FINISHES OR UNFINISHED STEEL FINISHES – REFER TO  
ARCHITECTURAL PLAN SERIES FOR LOCATIONS AND TYPES
- COMPOSITE DECKING – REFER TO ARCHITECTURAL PLAN  
SERIES FOR LOCATIONS AND TYPES

ISSUE	DATE	DESCRIPTION
07/21/2015	70% SUBMITTAL	
03/27/2015	40% SUBMITTAL	



Contractor's Seal  
**INTERNAL REVIEW**  
DOCUMENTS  
THE DESIGN DOCUMENTS  
DEPicted THEREIN ARE  
INCOMPLETE AND MAY NOT BE  
USED FOR REGULATORY  
APPROVAL, PERMIT OR  
CONSTRUCTION.

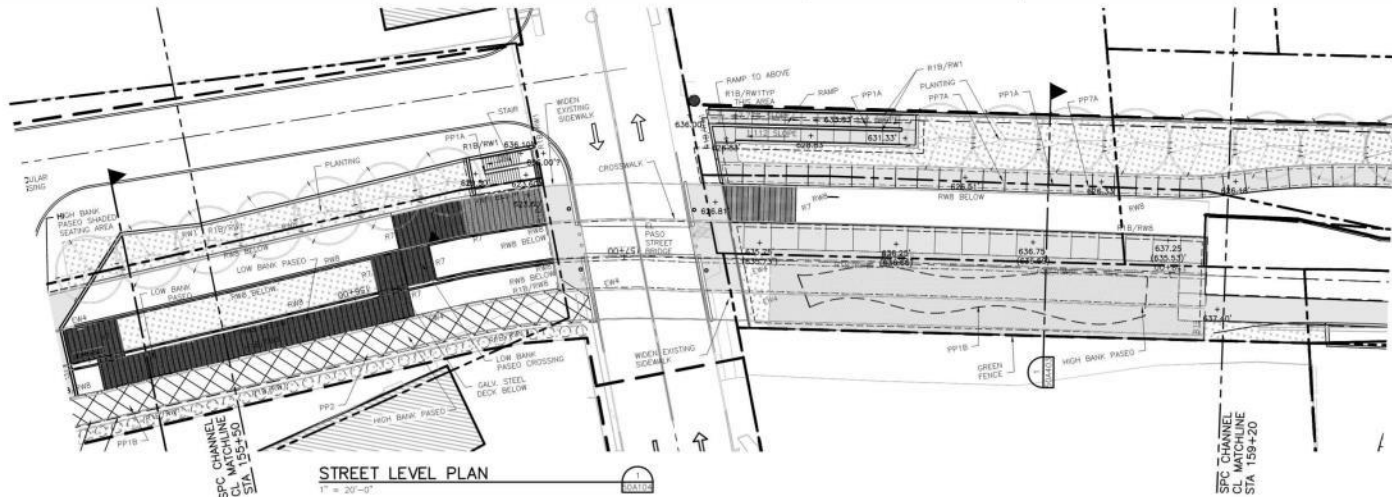


**CANAL PRINCIPAL  
MAIN CHANNEL  
PARTIAL SITE PLAN**

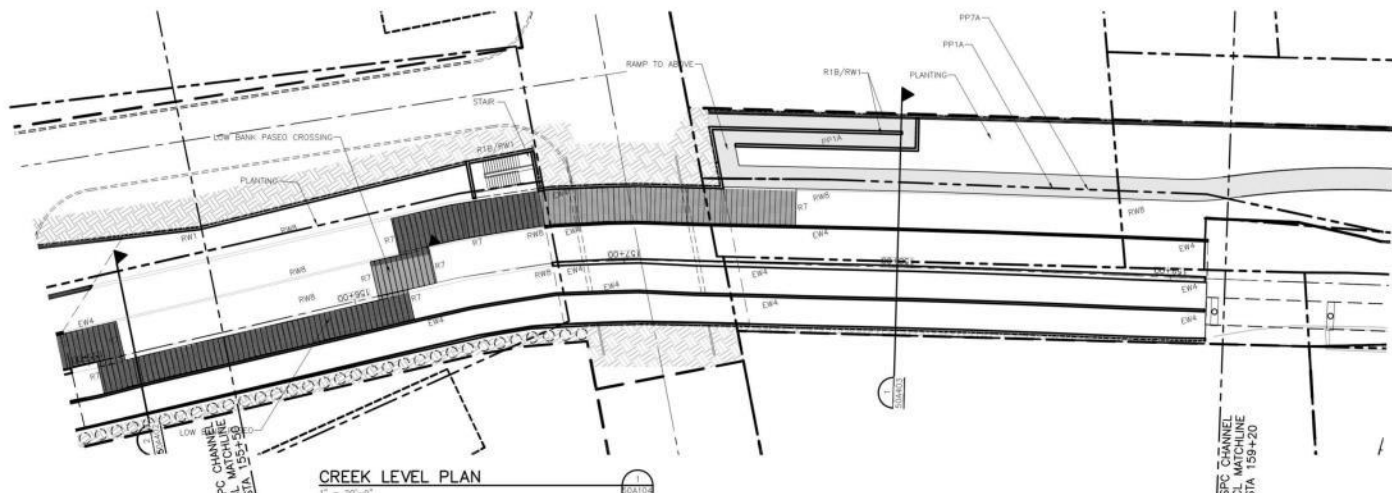
SAN PEDRO CREEK IMPROVEMENTS  
SAN ANTONIO, TEXAS

Project Number: 000090000228487  
Scale: 1" = 20'-0"  
Reviewed by: Y. YANG  
Drawing No: 50A103





**STREET LEVEL PLAN**  
1" = 20'-0"



**CREEK LEVEL PLAN**  
1" = 20'-0"

- EXISTING WALL TYPES
- EK1 EXISTING STONE MASONRY WALL
  - EK2 EXISTING STONE MASONRY WALL LOWEDED TO NEW T.O.W. LOCATION. EXISTING STAIRS AND EXISTING STONE MASONRY PAVED SIDEWALK
  - EK3 EXISTING STONE MASONRY WALL W/ CONCRETE REINFORCEMENT
  - EK4 REPAIR AND REDUCE EXISTING CONCRETE WALL
  - EK5 EXISTING CONCRETE WALL TO REMAIN REMOVE UPPER PORTION OF WALL TO NEW LOCATION AS INDICATED
- REFER TO SHEET 050407 FOR ARCHITECTURAL RETAINING WALL TYPES
- REFER TO SHEET 050408 FOR ARCHITECTURAL RETAINING WALL TYPES
- REFER TO SHEET 050409 FOR CONCRETE SIDEWALK TYPES
- REFER TO SHEET 050410 FOR CONCRETE SIDEWALK TYPES
- ENTRY MARKER
  - ★ HYDRORETIC GRAPHICS
  - ▲ MAP/ORIENTATIONAL INFO
- CONCRETE FINISH - REFER TO ARCHITECTURAL PLAN SERIES AND ISOMET FOR LOCATIONS AND SPECIFIC TYPES
  - NATURAL CONCRETE FINISH W/ PATTERN IN EXPOSED SURFACES - REFER TO ARCHITECTURAL PLAN SERIES AND ISOMET FOR LOCATIONS AND SPECIFIC TYPES
  - CHANGEL OR UNFINISHED STEEL FINISH - REFER TO ARCHITECTURAL PLAN SERIES FOR LOCATIONS AND TYPES
  - COMPOSITE DECKING - REFER TO ARCHITECTURAL PLAN SERIES FOR LOCATIONS AND TYPES

ISSUE	DATE	DESCRIPTION
	07/21/2015	70% SUBMITTAL
	03/27/2015	40% SUBMITTAL

**SAN ANTONIO RIVER AUTHORITY**  
Leaders in Watershed Solutions

**HDR**  
Texas P.E. Firm  
Registration No. F-754

**muñoz**

Location's Site  
INTERN REVIEW DOCUMENTS  
THE DESIGN DOCUMENTS SUBMITTED TO THIS AGENCY ARE INCOMPLETE AND MAY NOT BE USED FOR REGULATORY APPROVAL, PERMIT OR CONSTRUCTION.

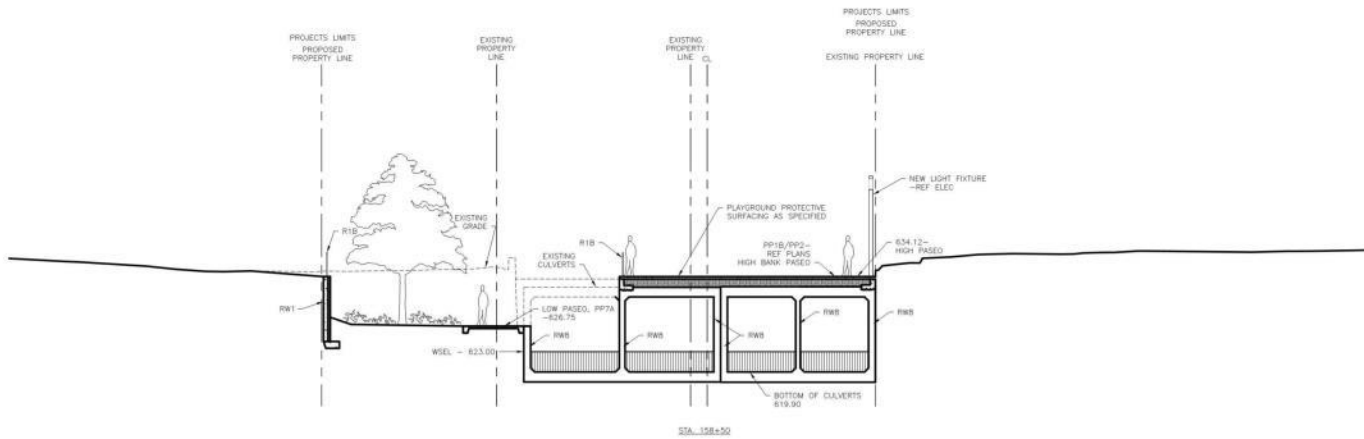
**CANAL PRINCIPAL MAIN CHANNEL PARTIAL SITE PLAN**

SAN PEDRO CREEK IMPROVEMENTS  
SAN ANTONIO TEXAS

Project Number: 000000002294807  
Scale: 1" = 20'-0"  
Prepared by: S. CASPARRLO  
Checked by: Y. YANG

Drawing No. **50A104**





**SECTION**  
SCALE: 1/8"=1'-0"

D  
C  
B  
A


ISSUE	DATE	DESCRIPTION
07/31/2015	70%	SUBMITTAL
03/27/2015	40%	SUBMITTAL


**SAN ANTONIO RIVER AUTHORITY**  
 Leaders in Watershed Solutions


**HDR**  
 Texas P.E. Firm  
 Registration No. F-754


**muñoz**


**INTERIM REVIEW DOCUMENTS**  
 THE DESIGN DOCUMENTS DEPICTED THEREIN ARE INCOMPLETE AND MAY NOT BE USED FOR REGULATORY APPROVAL, PERMIT OR CONSTRUCTION.



**CANAL PRINCIPAL MAIN CHANNEL AREA SECTIONS**  
 SAN PEDRO CREEK IMPROVEMENTS  
 SAN ANTONIO, TEXAS

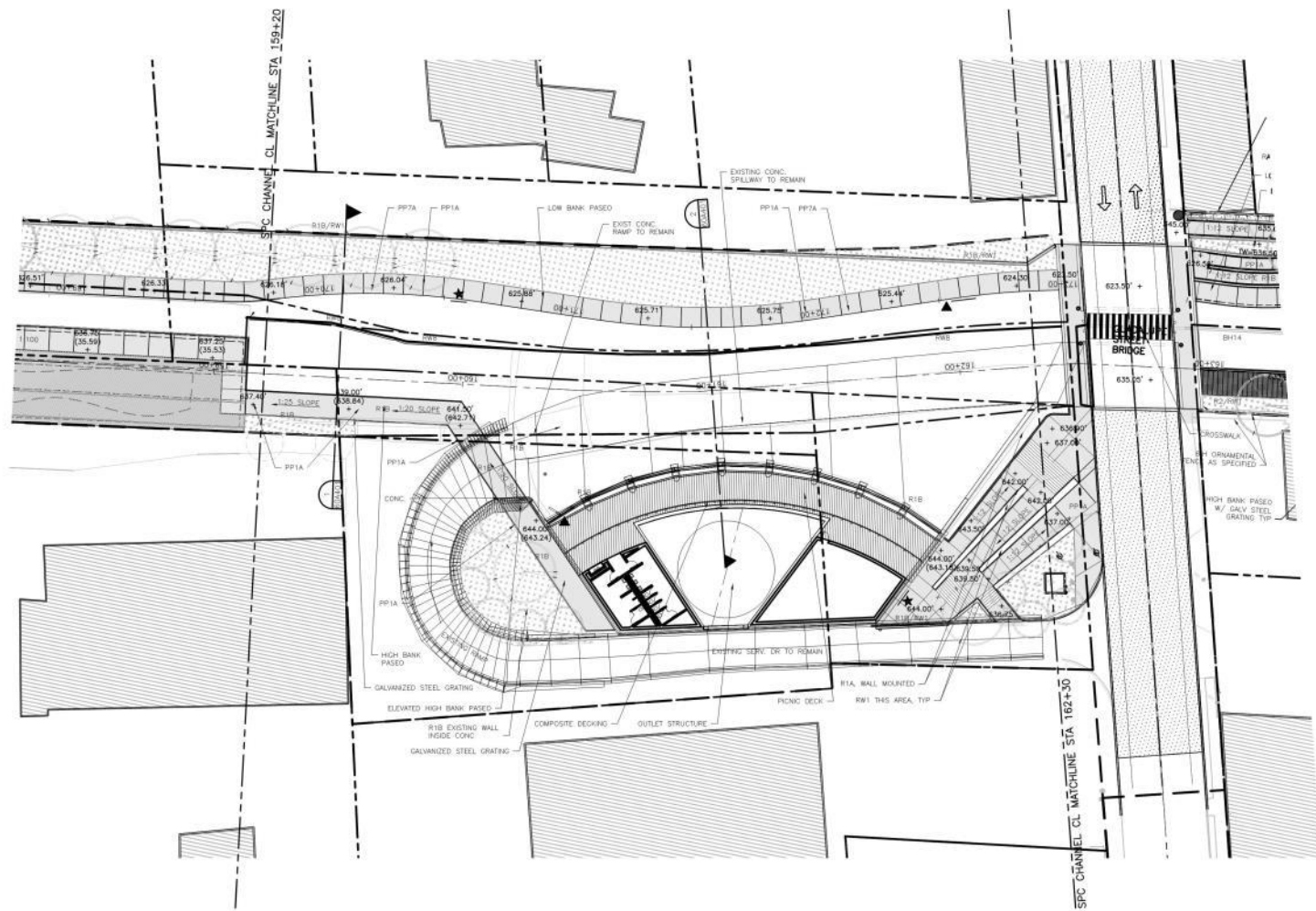
Project Number: 05000000228497  
 Scale: 1/8" = 1'-0"  
 Date:  
 Drawn by: V. CAPPABELLO  
 Checked by: F. DE LA ROSA

Drawing No. **50A403**



# CAMPO ABAJO





- EXISTING WALL TYPES
- EK1 EXISTING STONE MASONRY WALL  
STABILIZE REPAIR AND RECTIFY
  - EK2 EXISTING STONE MASONRY WALL LOWEDED TO NEW T.O.M  
LOCATION. EXISTING STAIRS AND EXISTING STONE  
BALCONY W/COVER DECK W/ GALV. STEEL GRATING  
REMOVE AND RECONSTRUCT STONE AS INDICATED
  - EK3 EXISTING STONE MASONRY WALL W/ CONCRETE REINFORCEMENT  
REMOVE AND RECONSTRUCT STONE MASSIVE AND  
CONCRETE PROVIDE NEW 4" THICK STONE COPIING
  - EK4 REMOVE AND RECONSTRUCT EXISTING CONCRETE WALL
  - EK5 EXISTING CONCRETE WALL TO REMAIN REMOVE UPPER  
PORTION OF WALL TO NEW ELEVATION AS INDICATED
- REFER TO SHEET 000000A & 000000B FOR  
ARCHITECTURAL BLAZED WALL TYPES
- REFER TO SHEET 000000C FOR ARCHITECTURAL RETAINING  
WALL TYPES
- REFER TO SHEETS 000000D & 000000E FOR  
ARCHITECTURAL BRIDGE TYPES
- REFER TO SHEET 000000F FOR CONCRETE SIDEWALK  
RAMP TYPES
- ENTRY MARKER
  - ★ INTERPRETIVE GRAPHICS
  - ▲ MAP/DIRECTIONAL INFO
- CONCRETE PAVING - REFER ARCHITECTURAL PLAN SERIES  
AND 000000F FOR LOCATIONS AND SPECIFIC TYPES
  - NATURAL CONCRETE PAVING W/ PATTERN IN EXPOSED  
SURFACES FINISH - REFER TO ARCHITECTURAL PLAN  
SERIES AND 000000F FOR LOCATIONS AND SPECIFIC TYPES
  - FINISHES OR UNPAVED STEEL DECKING - REFER TO  
ARCHITECTURAL PLAN SERIES FOR LOCATIONS AND TYPES
  - COMPOSITE DECKING - REFER TO ARCHITECTURAL PLAN  
SERIES FOR LOCATIONS AND TYPES

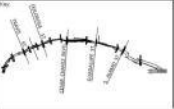
ISSUE	DATE	DESCRIPTION
	07/31/2015	70% SUBMITTAL
	03/27/2015	40% SUBMITTAL



Name: Consultant:  
**HR**  
 Texas P.E. Firm  
 Registration No. F-754



Consultor's Seal  
 INTERIM REVIEW DOCUMENTS  
 THE DESIGN DOCUMENTS DEPICTED THEREIN ARE INCOMPLETE AND MAY NOT BE USED FOR REGULATORY APPROVAL, PERMIT OR CONSTRUCTION.



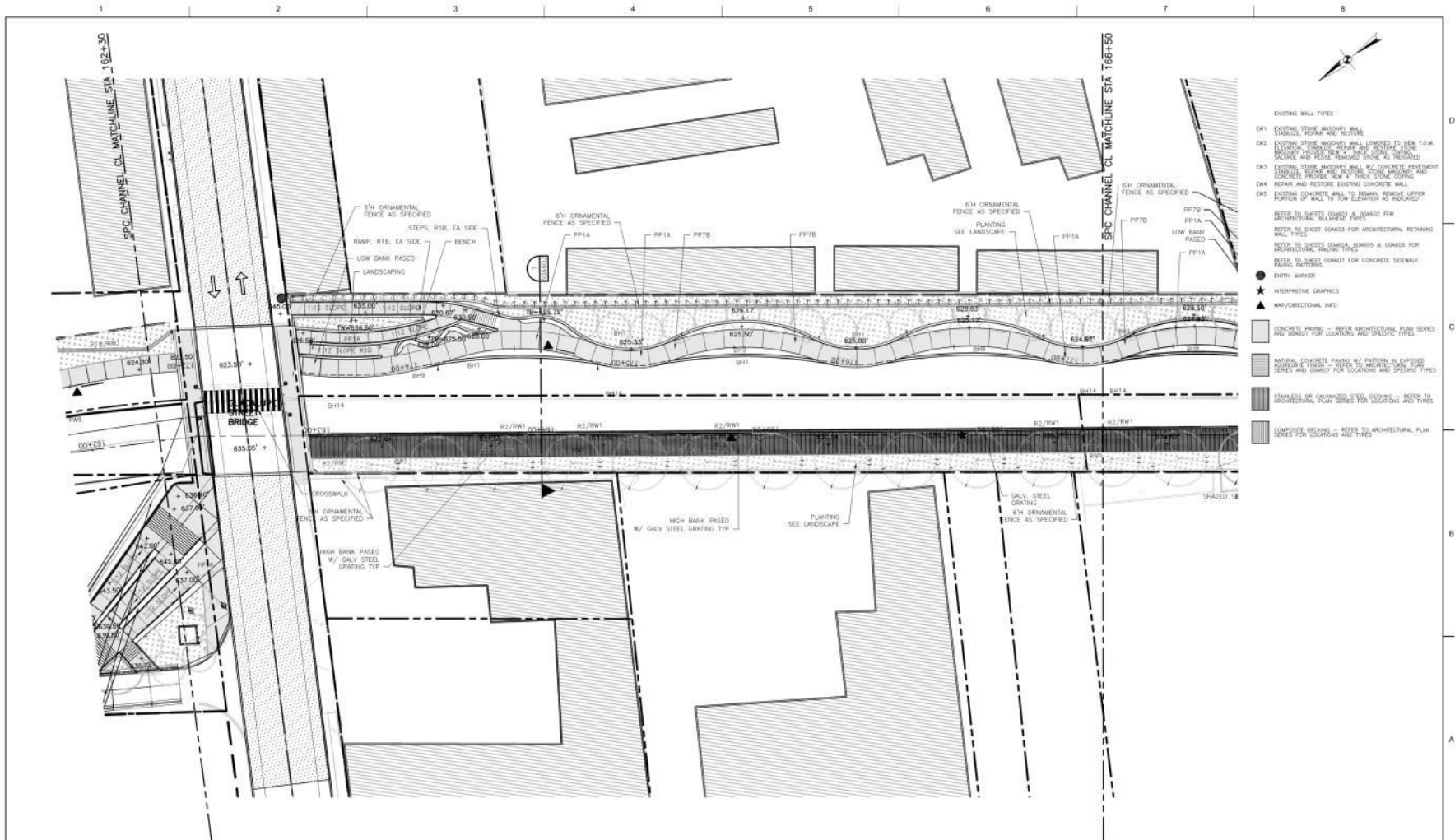
Project Name: 0000000001200407  
 Scale: 1" = 20'-0"  
 Drawing No: 60A101  
 Designer: Y. YANG

**CAMPO ABAJO MAIN CHANNEL PARTIAL SITE PLAN**

SAN PEDRO CREEK IMPROVEMENTS  
 SAN ANTONIO TEXAS

DATE: 03/27/2015





- EXISTING WALL TYPES**
- E01 EXISTING STONE MASONRY WALL CHALIZE REPAIR AND RESTORE
  - E02 EXISTING STONE MASONRY WALL LOWERED TO NEW T.O.W LOCATION. CHALIZE REPAIR AND RESTORE. STONE MASONRY INTERIOR IS 4" SAND CONCRETE. CHALIZE SURFACE AND ROCK REMAINS STONE AS INDICATED
  - E03 EXISTING STONE MASONRY WALL W/ CONCRETE REINFORCEMENT AND METAL RODS. STONE INTERIOR AND CONCRETE PROVIDE NEW 4" THICK STONE COING
  - E04 REMAIN AND RESTORE EXISTING CONCRETE WALL
  - E05 EXISTING CONCRETE WALL TO REMAIN REMOVE UPPER PORTION OF WALL TO NEW ELEVATION AS INDICATED
- REFER TO SHEET 020403 FOR CHALIZE FOR ARCHITECTURAL BLAZED TYPES
- REFER TO SHEET 020403 FOR ARCHITECTURAL RETAINING WALL TYPES
- REFER TO SHEET 020403 FOR ARCHITECTURAL BEARING WALL TYPES
- REFER TO SHEET 020407 FOR CONCRETE SIDEWALK PAVING PATTERNS
- ENTRY MARKER
- ★ INTERPRETIVE GRAPHICS
- ▲ MAP/DIRECTIONAL REF
- C

ISSUE	DATE	DESCRIPTION
07/31/2015	70% SUBMITTAL	
03/27/2015	40% SUBMITTAL	



**SAN ANTONIO RIVER AUTHORITY**  
Leaders in Watershed Solutions



**HDR**  
Texas P.E. Firm  
Registration No. F-754

Author:   
Designer:   
Checker:   
**muñoz**

Location's Site  
**INTERNAL REVIEW DOCUMENTS**  
THE DESIGN DOCUMENTS DEPICTED THEREIN ARE INCOMPLETE AND MAY NOT BE USED FOR REGULATORY APPROVAL, PERMIT OR CONSTRUCTION.



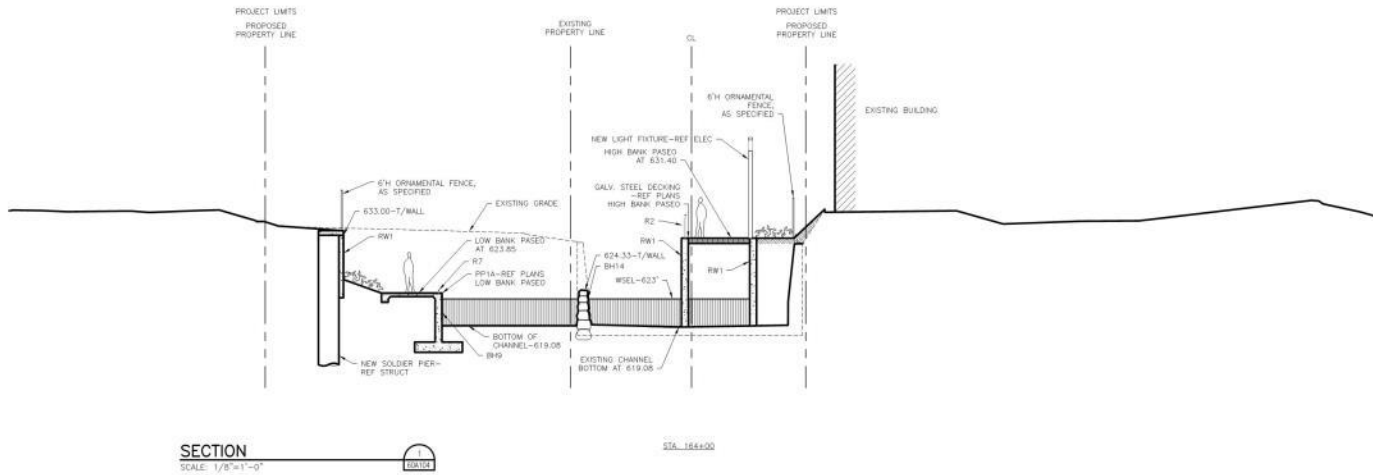
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Scale: 1" = 20'-0"  
Revised by: W. CARROLL  
Drawn by: Y. YANG

**CAMPO ABAJO MAIN CHANNEL PARTIAL SITE PLAN**

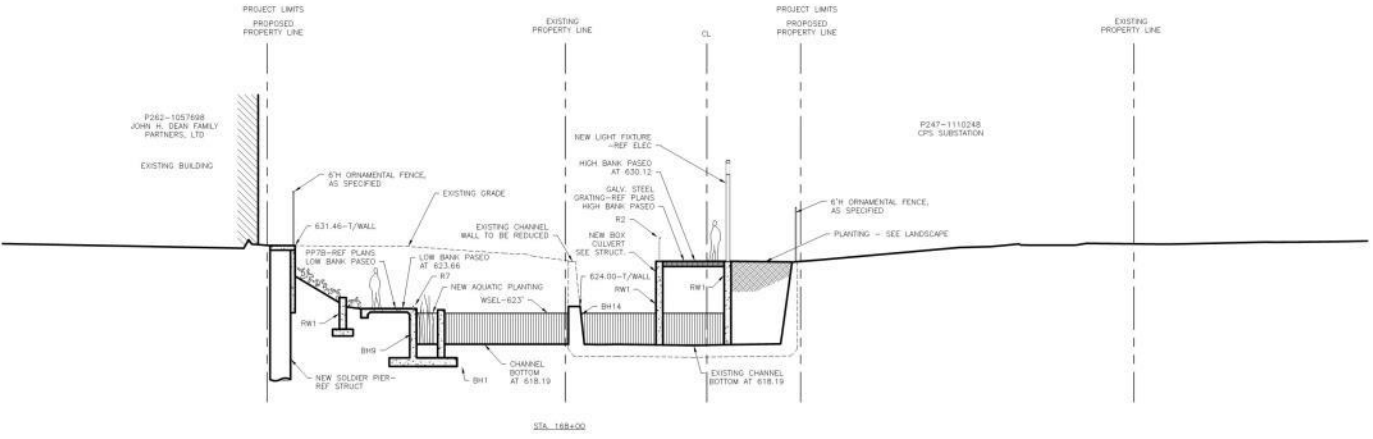
SAN PEDRO CREEK IMPROVEMENTS  
SAN ANTONIO TEXAS

Drawing No: **60A102**





**SECTION**  
 SCALE: 1/8"=1'-0"  
 STA. 164+00



**SECTION**  
 SCALE: 1/8"=1'-0"  
 STA. 168+00

ISSUE	DATE	DESCRIPTION
07/31/2015	705	SUBMITTAL
05/27/2015	405	SUBMITTAL

**SAN ANTONIO RIVER AUTHORITY**  
 Leaders in Watershed Solutions

**HDR**  
 Texas P.E. Firm  
 Registration No. F-754

**muñoz**

INTERIM REVIEW DOCUMENTS  
 THE DESIGN DOCUMENTS DEPICTED THEREIN ARE INCOMPLETE AND MAY NOT BE USED FOR REGULATORY APPROVAL, PERMIT OR CONSTRUCTION.

**CAMPO ABAJO MAIN CHANNEL AREA SECTIONS**

SAN PEDRO CREEK IMPROVEMENTS  
 SAN ANTONIO, TEXAS

Project Number: 0000000228497  
 Date: 1/5/14  
 Scale: 1/8"=1'-0"

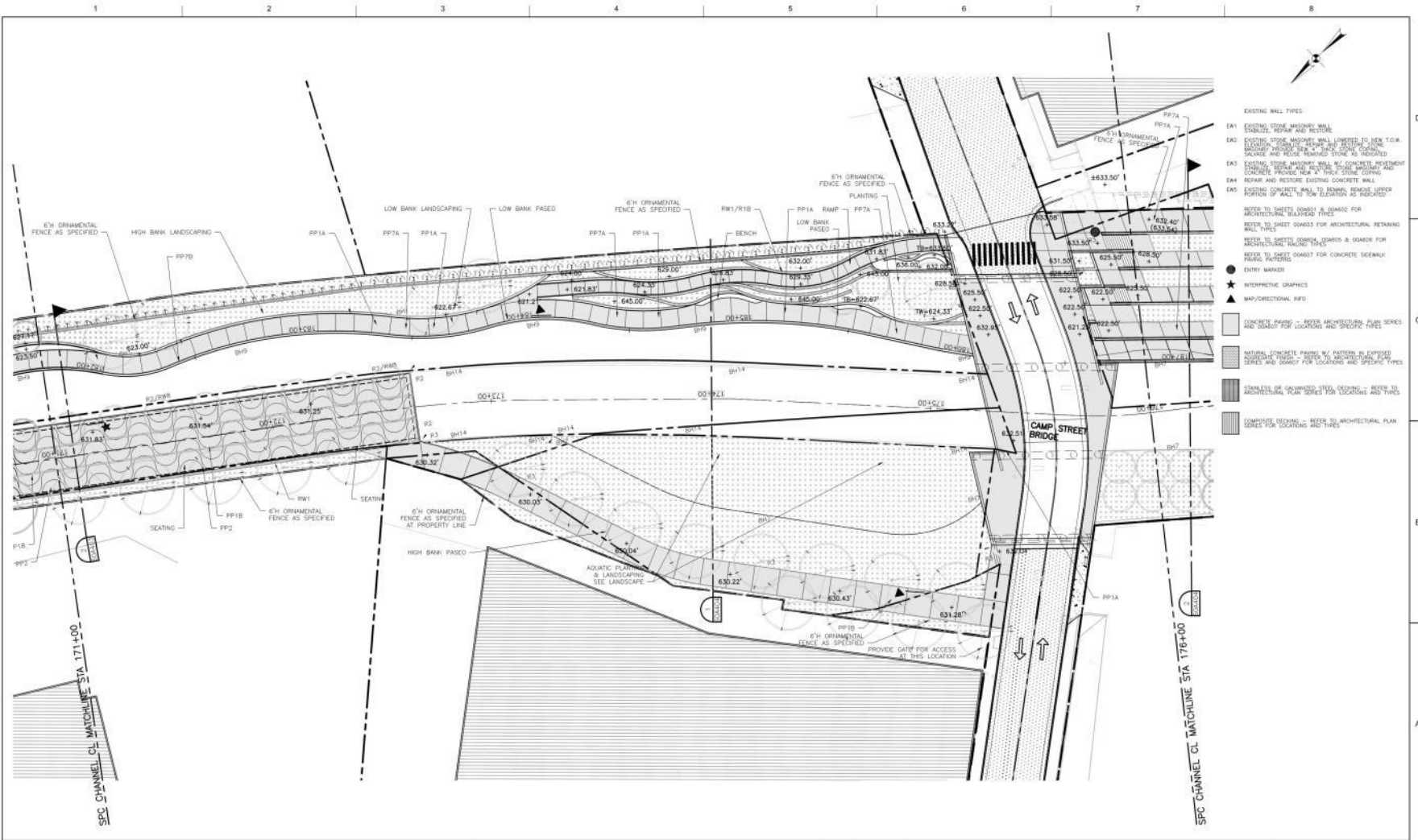
60A402

Prepared by: V. CARPILLER  
 Checked by: F. DE LA ROSA



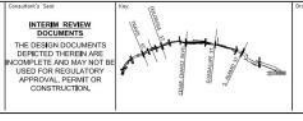






- EXISTING WALL TYPES
- EK1 EXISTING STONE MASONRY WALL  
CHARLIZE REPAIR AND RESTORE
  - EK2 EXISTING STONE MASONRY WALL LOWEDED TO NEW T.O.W.  
LOCATION. CHARLIZE REPAIR AND RESTORE. STONE  
BACKGROUND PROVIDE NEW 4" THICK STONE COPING  
SOURCE AND REMOVE EXISTING STONE AS INDICATED
  - EK3 EXISTING STONE MASONRY WALL W/ CONCRETE REINFORCEMENT  
CHARLIZE REPAIR AND RESTORE. STONE BACKSHOULDER AND  
CONCRETE PROVIDE NEW 4" THICK STONE COPING
  - EK4 REMOVE AND RESTORE EXISTING CONCRETE WALL
  - EK5 EXISTING CONCRETE WALL TO REMAIN, REMOVE UPPER  
PORTION UP WALL TO NEW ELEVATION AS INDICATED
- REFER TO SHEET 03040 FOR ARCHITECTURAL RETAINING  
WALL TYPES
- REFER TO SHEET 03040 FOR ARCHITECTURAL RETAINING  
WALL TYPES
- REFER TO SHEET 03040 FOR CONCRETE SIDEWALK  
FLOOR FINISHING
- ENTRY MARKER
  - ★ INTERPRETIVE GRAPHICS
  - ▲ MAP/DIRECTIONAL INFO
- CONCRETE FINISH - REFER ARCHITECTURAL PLAN SERIES  
AND OSADOT FOR LOCATIONS AND SPECIFIC TYPES
  - NATURAL CONCRETE FINISH W/ PATTERNS AS SHOWN FOR  
ARCHITECTURAL FINISH TYPES
  - FINISH OR UNFINISHED STEEL DECKING - REFER TO  
ARCHITECTURAL PLAN SERIES FOR LOCATIONS AND TYPES
  - COMPOSITE DECKING - REFER TO ARCHITECTURAL PLAN  
SERIES FOR LOCATIONS AND TYPES

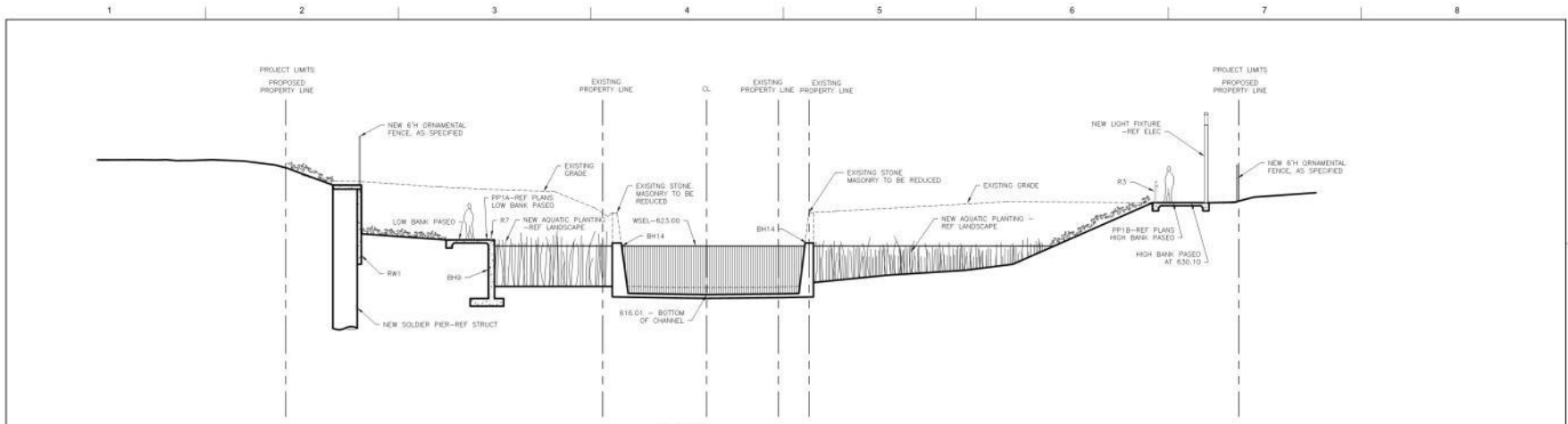
ISSUE	DATE	DESCRIPTION
	07/31/2015	70% SUBMITTAL
	03/27/2015	40% SUBMITTAL



**CAMPO ABAJO  
MAIN CHANNEL  
PARTIAL SITE PLAN**

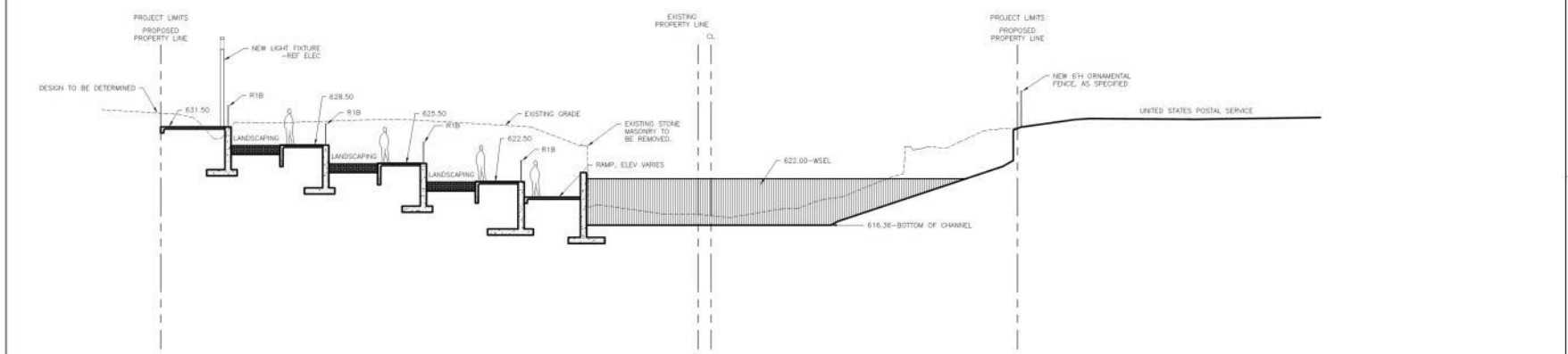
SAN PEDRO CREEK IMPROVEMENTS  
SAN ANTONIO TEXAS

<p>Project Number: 0000000228407</p> <p>Scale: 1" = 20'-0"</p> <p>Revision by: W. GARRILLO</p> <p>Drawn by: Y. YANG</p>	<p>Drawing No. <b>60A104</b></p>
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**SECTION**  
SCALE: 1/8"=1'-0"

STA 174+00



**SECTION**  
SCALE: 1/8"=1'-0"


STA 176+25

ISSUE	DATE	DESCRIPTION
07/31/2015	70%	SUBMITTAL
03/27/2015	40%	SUBMITTAL

Project Consultant:  
  
**HDR**  
 SAN ANTONIO RIVER AUTHORITY  
 Leaders in Watershed Solutions  
 Texas P.E. Firm  
 Registration No. F-754

Contractor:  
  
**muñoz**

Contractor's Seal:  
**INTERIM REVIEW DOCUMENTS**  
 THE DESIGN DOCUMENTS DEPICTED HEREIN ARE INCOMPLETE AND MAY NOT BE USED FOR REGULATORY APPROVAL, PERMIT OR CONSTRUCTION.



Drawing Name:  
**CAMPO ABAJO MAIN CHANNEL AREA SECTIONS**  
 SAN PEDRO CREEK IMPROVEMENTS  
 SAN ANTONIO, TEXAS

Project Number:  
00000000228497

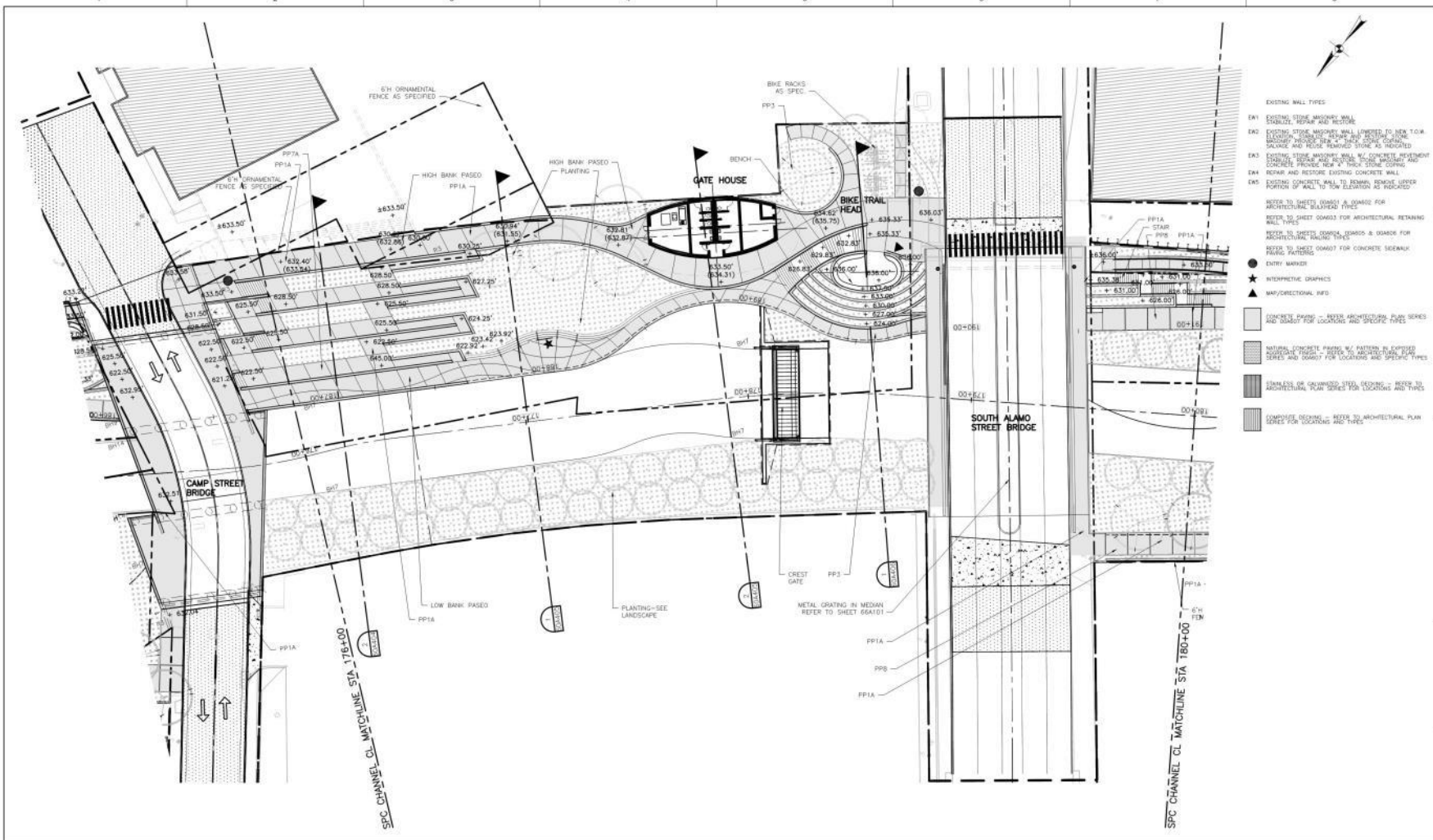
Scale:  
1/8" = 1'-0"

Drawn by:  
V. CARRILLO

Checked by:  
F. DE LA ROSA

Sheet No. 60A404





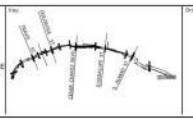
- EXISTING WALL TYPES
- E#1 EXISTING STONE MASONRY WALL STABILIZE, REPAIR AND RESTORE
- E#2 EXISTING STONE MASONRY WALL LOWERED TO NEW T.O.M. LOCATION. EXISTING BEAMS AND RESTORATION CONCRETE PROVIDE NEW 4" THICK STONE COING. SOLUCE AND ROCK REMAINS STONE AS INDICATED
- E#3 EXISTING STONE MASONRY WALL W/ CONCRETE REINFORCEMENT AND RESTORATION CONCRETE PROVIDE NEW 4" THICK STONE COING.
- E#4 BEAMS AND RESTORE EXISTING CONCRETE WALL
- E#5 EXISTING CONCRETE WALL TO REMAIN REMOVE UPPER PORTION OF WALL TO NEW ELEVATION AS INDICATED
- REFER TO SHEET 06063 FOR DETAILS FOR ARCHITECTURAL BLAZED TYPES
- REFER TO SHEET 06063 FOR ARCHITECTURAL RETAINING WALL TYPES
- REFER TO SHEET 06063 FOR ARCHITECTURAL WALL TYPES
- REFER TO SHEET 06067 FOR CONCRETE SIDEWALK PAVING PATTERNS
- EXISTING MARKER
  - ★ INTERPRETIVE GRAPHICS
  - ▲ MAP/DIRECTIONAL INFO
- CONCRETE PAVING - REFER ARCHITECTURAL PLAN SERIES AND 06067 FOR LOCATIONS AND SPECIFIC TYPES
  - ▨ NATURAL CONCRETE PAVING W/ PATTERNS IN EXPOSED SOUGHTS FINISH - REFER TO ARCHITECTURAL PLAN SERIES AND 06067 FOR LOCATIONS AND SPECIFIC TYPES
  - ▨ ASPHALT OR COMPACTED STEEL DECKING - REFER TO ARCHITECTURAL PLAN SERIES FOR LOCATIONS AND TYPES
  - ▨ COMPOSITE DECKING - REFER TO ARCHITECTURAL PLAN SERIES FOR LOCATIONS AND TYPES

ISSUE	DATE	DESCRIPTION
	07/31/2015	70% SUBMITTAL
	03/27/2015	40% SUBMITTAL



Contractor:  
 Description:  
 Location:  
 Stationing: Sta

REVIEW DOCUMENTS  
 THE DESIGN DOCUMENTS  
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 APPROVAL, PERMIT OR  
 CONSTRUCTION



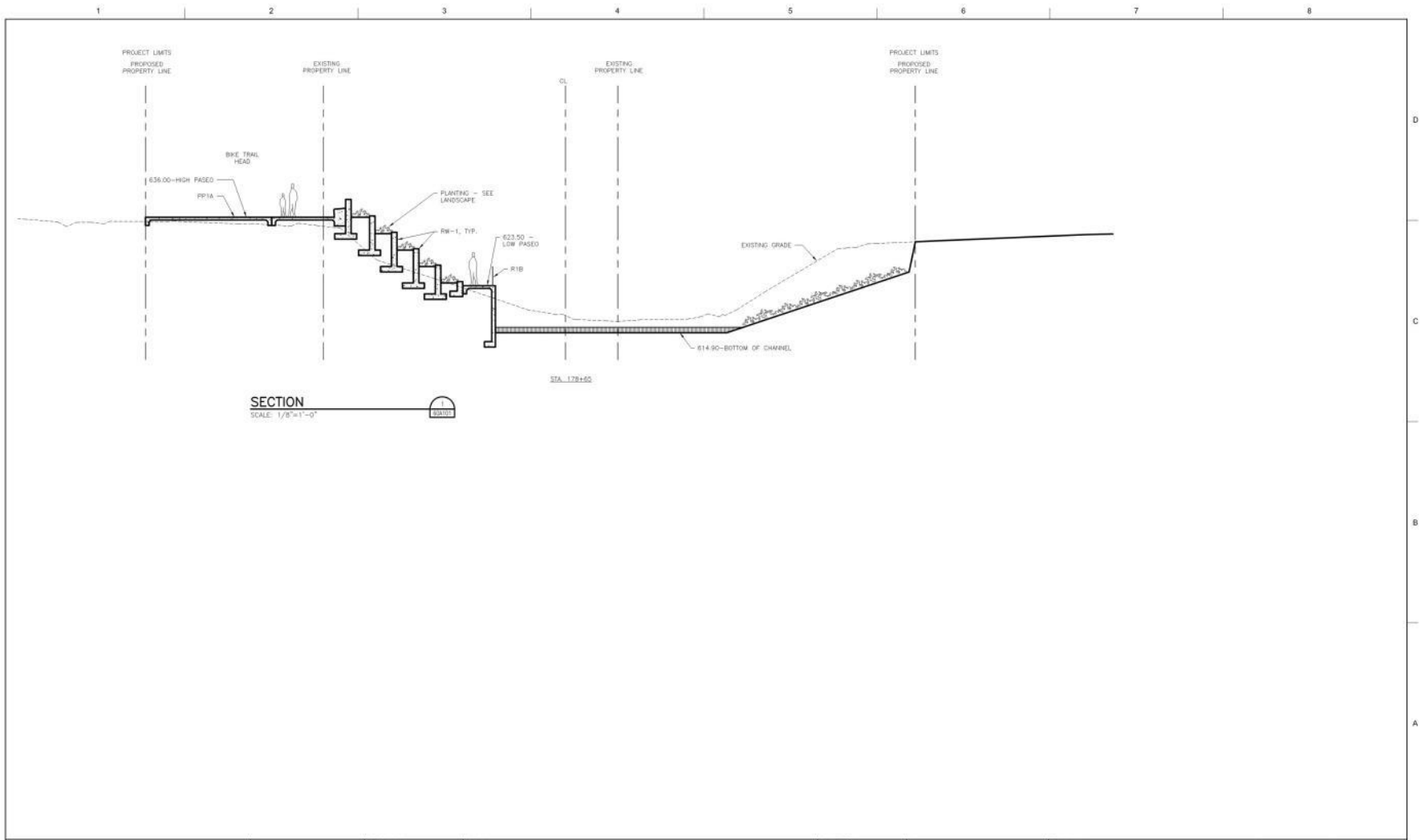
**CAMPO ABAJO  
 MAIN CHANNEL  
 PARTIAL SITE PLAN**

Project Number: 00000000229407  
 Scale: 1" = 20'-0"  
 Revision By: W. CAMPBELL  
 Stationing: Y. YANG

60A105

SAN PEDRO CREEK IMPROVEMENTS  
 SAN ANTONIO TEXAS





ISSUE	DATE	DESCRIPTION
07/31/2015	70%	SUBMITTAL
03/27/2015	40%	SUBMITTAL

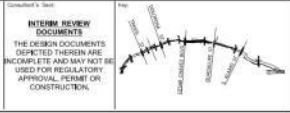

**SAN ANTONIO RIVER AUTHORITY**  
 Leaders in Watershed Solutions

**HDR**  
 Texas P.E. Firm  
 Registration No. F-754

Project Consultant: 

Consultant's Seal: 

**INTERIM REVIEW DOCUMENTS**  
 THE DESIGN DOCUMENTS DEPICTED THEREIN ARE INCOMPLETE AND MAY NOT BE USED FOR REGULATORY APPROVAL, PERMIT OR CONSTRUCTION.



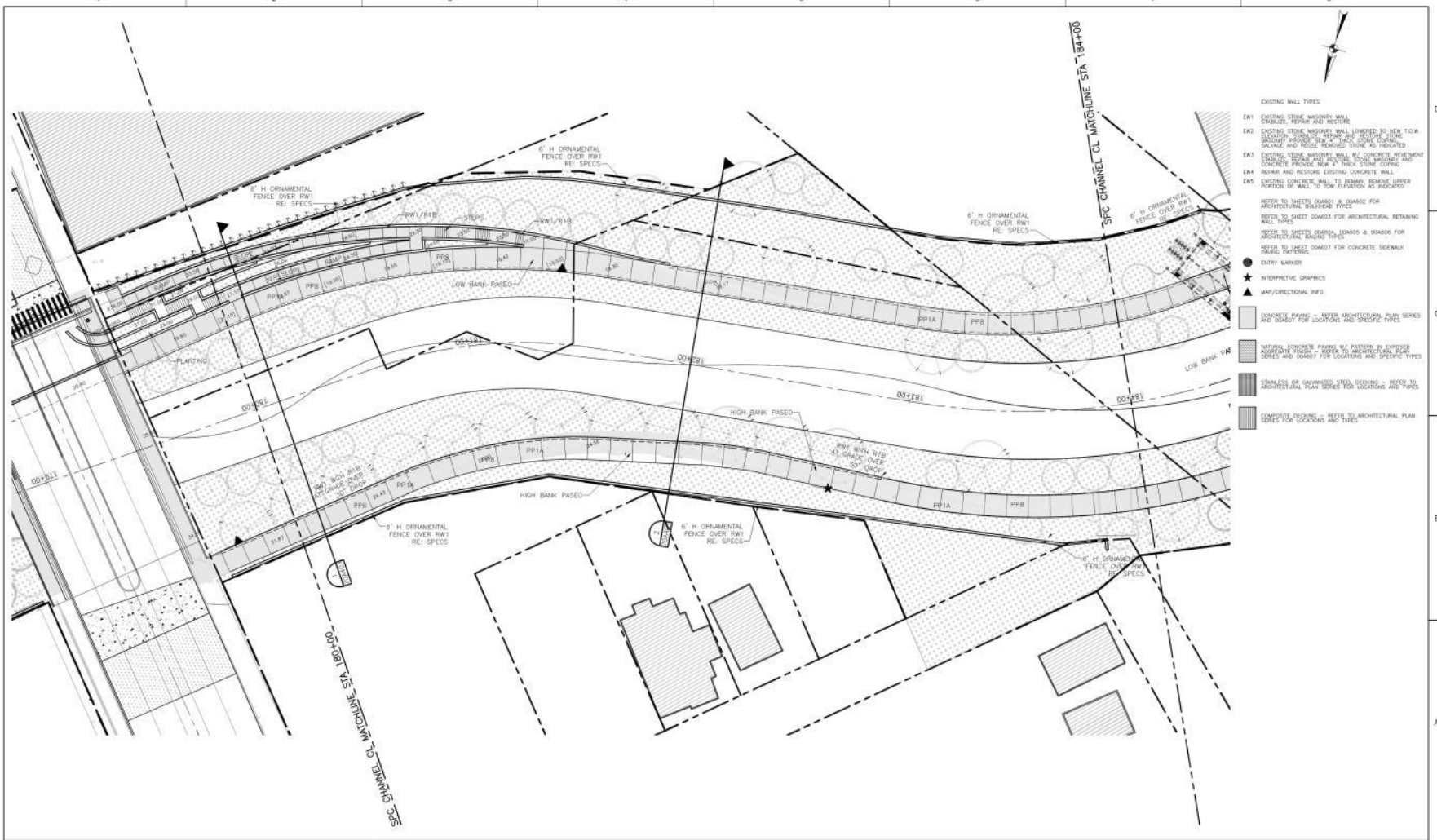
**CAMPO ABAJO MAIN CHANNEL AREA SECTIONS**  
 SAN PEDRO CREEK IMPROVEMENTS  
 SAN ANTONIO, TEXAS

Project Number: 00000000228497  
 Scale: 1/8" = 1'-0"  
 Date:   
 Drawn by: V. CARPILLLO  
 Checked by: F. DE LA ROSA

Drawing Name: **60A406**  


# LOWER REACH



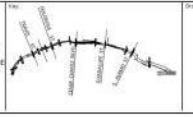


- EXISTING WALL TYPES
- E#1 EXISTING STONE MASONRY WALL STABILIZE, REPAIR AND RESTORE
  - E#2 EXISTING STONE MASONRY WALL LOWERED TO NEW T.O.W. LOCATION, RESTORE STABILIZE AND RESTORE STONE MASSIVE PROTECTIVE 2" x 2" STAIN COPIED COPING SOLID AND POLYURETHANE STONE AS INDICATED
  - E#3 EXISTING STONE MASONRY WALL W/ CONCRETE REINFORCEMENT STABILIZE, REPAIR AND RESTORE STONE MASSIVE AND CONCRETE PROVIDE NEW 4" THICK STONE COPING
  - E#4 REPAIR AND RESTORE EXISTING CONCRETE WALL
  - E#5 EXISTING CONCRETE WALL TO REMAIN REMOVE UPPER PORTION OF WALL TO NEW ELEVATION AS INDICATED
- SEE TO SHEET OS#301 & OS#302 FOR ARCHITECTURAL BLAZED TYPES
- SEE TO SHEET OS#303 FOR ARCHITECTURAL RETAINING WALL TYPES
- SEE TO SHEET OS#304 FOR ARCHITECTURAL BLAZED TYPES
- SEE TO SHEET OS#305 FOR CONCRETE SIDEWALK PAVED PAVING
- SEE TO SHEET OS#306 FOR CONCRETE SIDEWALK PAVED PAVING
- ENTRY MARKER
  - ★ INTERPRETIVE GRAPHICS
  - ▲ MAP/ORIENTATIONAL INFO
- CONCRETE PAVING - REFER ARCHITECTURE PLAN SERIES AND OS#307 FOR LOCATIONS AND SPECIFIC TYPES
  - NATURAL CONCRETE PAVING W/ PATTERNS IN EXPOSED SURFACES TOUGH - REFER TO ARCHITECTURE PLAN SERIES AND OS#307 FOR LOCATIONS AND SPECIFIC TYPES
  - FINISHES OR UNPAVED STEEL DECKING - REFER TO ARCHITECTURE PLAN SERIES FOR LOCATIONS AND TYPES
  - COMPOSITE DECKING - REFER TO ARCHITECTURE PLAN SERIES FOR LOCATIONS AND TYPES

ISSUE	DATE	DESCRIPTION
07/31/2015		70% SUBMITTAL
03/27/2015		40% SUBMITTAL



Interner Review Documents  
THE DESIGN DOCUMENTS DEPICTED THEREIN ARE INCOMPLETE AND MAY NOT BE USED FOR REGULATORY APPROVAL, PERMIT OR CONSTRUCTION.



Project Name: 00000000229407

Scale: 1" = 20'-0"

Revision By: W. CARPILLO

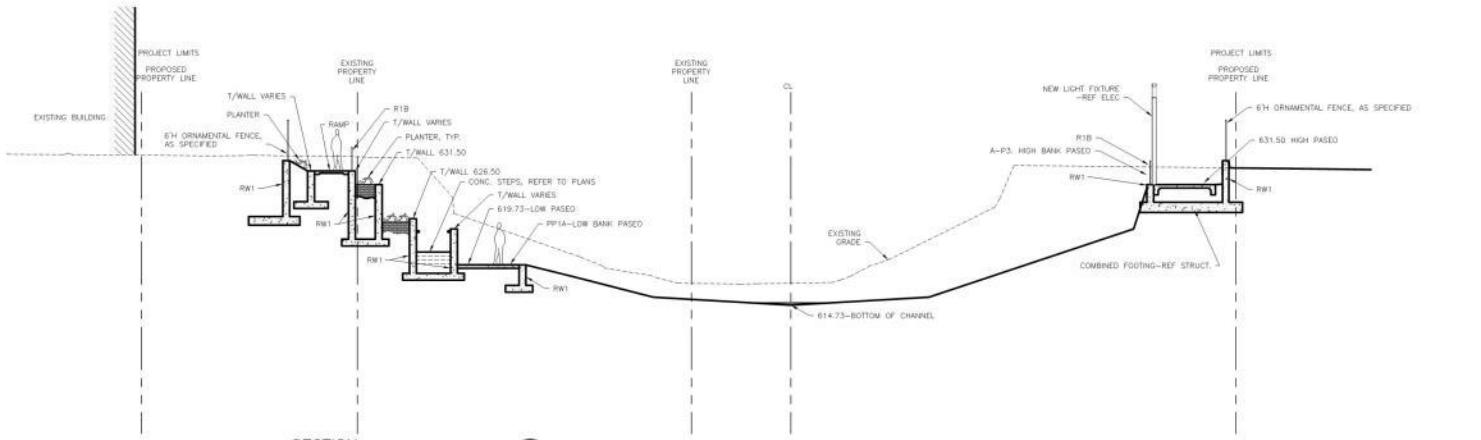
Drawn By: Y. YANG

**LOWER REACH MAIN CHANNEL PARTIAL SITE PLAN**

SAN PEDRO CREEK IMPROVEMENTS  
SAN ANTONIO, TEXAS

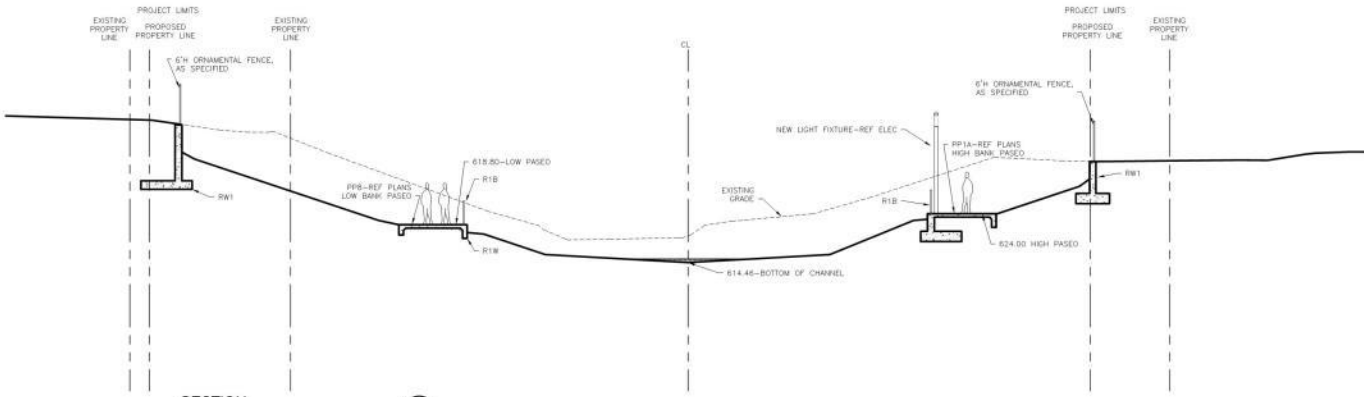
70A101

DRIVING IN:



**SECTION 1**  
SCALE: 1/8"=1'-0"

STA. 180+00



**SECTION 2**  
SCALE: 1/8"=1'-0"

STA. 182+00

ISSUE	DATE	DESCRIPTION
07/31/2015	70% SUBMITTAL	
03/27/2015	40% SUBMITTAL	



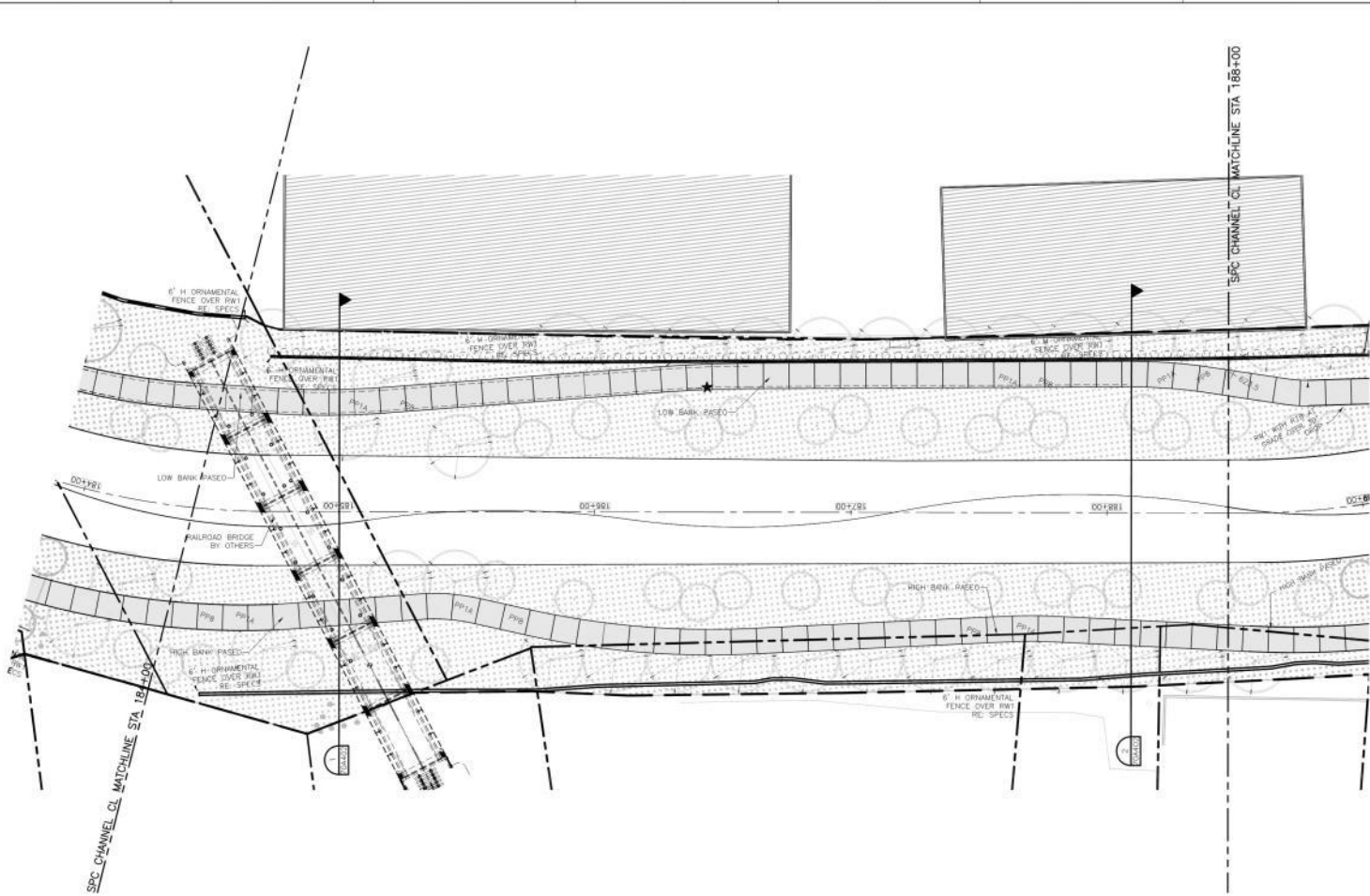
**LOWER REACH MAIN CHANNEL AREA SECTIONS**

SAN PEDRO CREEK IMPROVEMENTS  
SAN ANTONIO, TEXAS

Project Number: 00000000228497  
Scale: 1/8" = 1'-0"  
Drawn by: V. CARPILLER  
Checked by: F. DE LA ROSA

Drawings No. **70A401**





- EXISTING WALL TYPES**
- EK1 EXISTING STONE MASONRY WALL  
STABILIZE, REPAIR AND RECTIFY
  - EK2 EXISTING STONE MASONRY WALL LOWSEED TO NEW T.O.M.  
LOCATION. EXISTING REPAIR AND RECTIFY. STONE  
MASONRY REPAIR PER 4" THICK STONE COPING.  
SOURCE AND ROCK REMAINS STONE AS INDICATED
  - EK3 EXISTING STONE MASONRY WALL W/ CONCRETE REINFORCEMENT  
THINNEST REPAIR AND RECTIFY STONE MASSIVE AND  
CONCRETE PROVIDE NEW 4" THICK STONE COPING
  - EK4 REPAIR AND REDUCE EXISTING CONCRETE WALL
  - EK5 EXISTING CONCRETE WALL TO REMAIN REMOVE UPPER  
PORTION OF WALL TO NEW ELEVATION AS INDICATED
- REFER TO SHEETS US0403 & US0402 FOR  
ARCHITECTURAL BLAZED WALL TYPES
- REFER TO SHEET US0403 FOR ARCHITECTURAL RETAINING  
WALL TYPES
- REFER TO SHEETS US0403 US0405 & US0406 FOR  
ARCHITECTURAL BLAZED TYPES
- REFER TO SHEET US0407 FOR CONCRETE SIDEWALK  
WALL FINISHING
- ENTRY MARKER
  - ★ INTERPRETIVE GRAPHICS
  - ▲ MAP/DIRECTIONAL INFO
- [Pattern 1] CONCRETE PAVING - REFER ARCHITECTURE PLAN SERIES  
AND US0407 FOR LOCATIONS AND SPECIFIC TYPES
  - [Pattern 2] NATURAL CONCRETE PAVING W/ PATTERNS IN EXPOSED  
SUPPORTS FINISH - REFER TO ARCHITECTURE PLAN  
SERIES AND US0407 FOR LOCATIONS AND SPECIFIC  
TYPES
  - [Pattern 3] SURFNESS OR UNFINISHED STEEL DECKING - REFER TO  
ARCHITECTURE PLAN SERIES FOR LOCATIONS AND TYPES
  - [Pattern 4] COMPOSITE DECKING - REFER TO ARCHITECTURE PLAN  
SERIES FOR LOCATIONS AND TYPES

07/31/2015	70% SUBMITTAL	
03/27/2015	40% SUBMITTAL	
<b>ISSUE</b>	<b>DATE</b>	<b>DESCRIPTION</b>

**SAN ANTONIO RIVER AUTHORITY**  
Leaders in Watershed Solutions

**HDR**  
Texas P.E. Firm  
Registration No. F-754

Revision: \_\_\_\_\_  
Consultant: \_\_\_\_\_

**muñoz**

Contractor's Seal

**INTERNAL REVIEW DOCUMENTS**  
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USED FOR REGULATORY  
APPROVAL, PERMIT OR  
CONSTRUCTION.

**LOWER REACH MAIN CHANNEL PARTIAL SITE PLAN**

SAN PEDRO CREEK IMPROVEMENTS  
SAN ANTONIO TEXAS

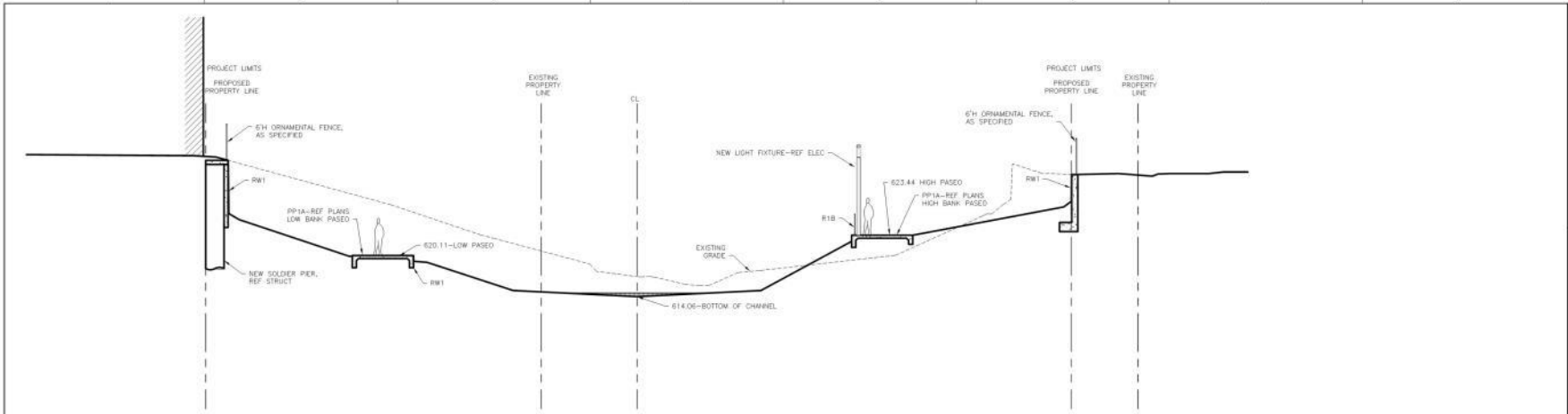
Project Number: 00000000228407  
Scale: 1" = 20'-0"  
Revision by: W. CARPILLO  
Date: Y. YANG

Drawing No: **70A102**

SCALE: 1" = 20'-0"

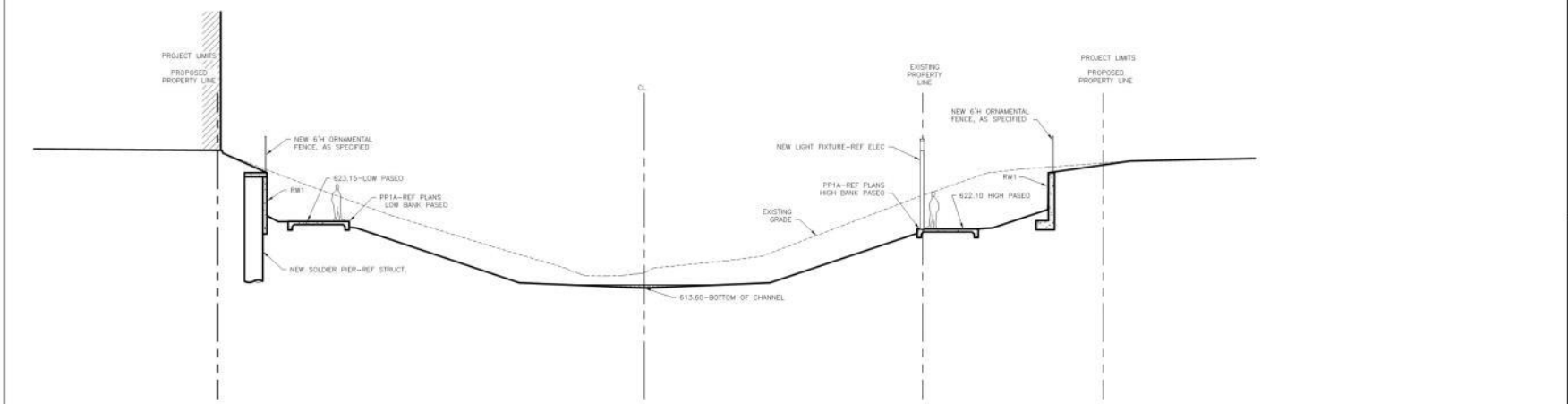
DATE: 07/31/2015

PROJECT: SAN PEDRO CREEK IMPROVEMENTS, SAN ANTONIO, TEXAS



**SECTION**  
SCALE: 1/8"=1'-0"  

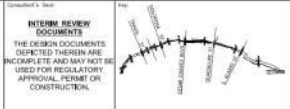

STA. 185+00



**SECTION**  
SCALE: 1/8"=1'-0"  


STA. 188+00

ISSUE	DATE	DESCRIPTION
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03/27/2015	40% SUBMITTAL	

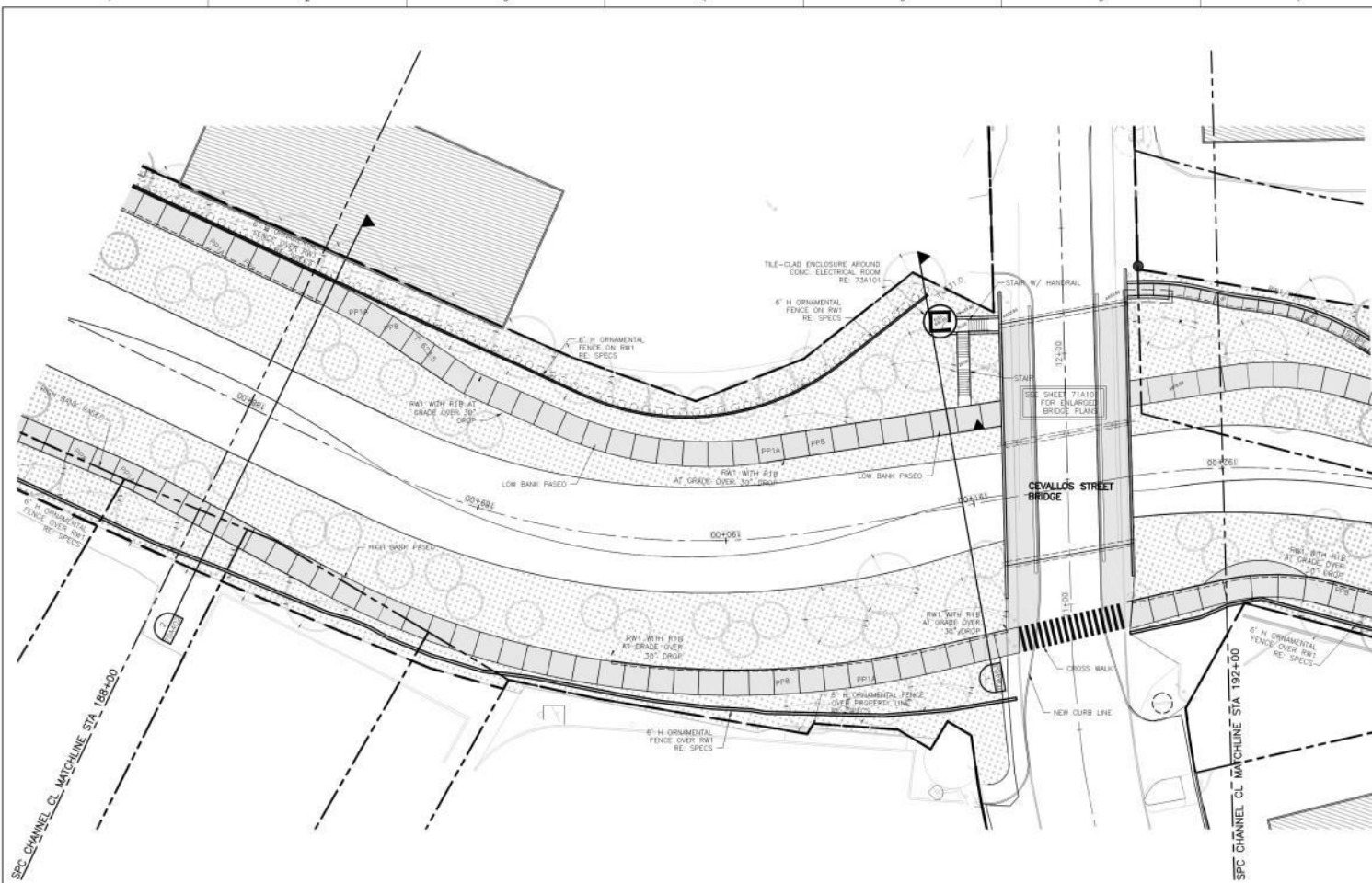


**LOWER REACH MAIN CHANNEL AREA SECTIONS**  
SAN PEDRO CREEK IMPROVEMENTS  
SAN ANTONIO, TEXAS

Project Number:  
00000000228497  
Scale:  
1/8" = 1'-0"  
Date:  
Revised by:  
V. CARRILLO  
Checked by:  
F. DE LA ROSA

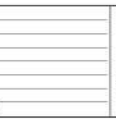
Drawing No.  
**70A402**

APP: (SEE PLAN OR CHANGES) / (SEE PLAN OR CHANGES)  
REVISION NO. / (SEE PLAN OR CHANGES)  
DATE: (SEE PLAN OR CHANGES)



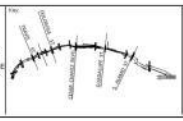
- EXISTING WALL TYPES
- EK1 EXISTING STONE MASONRY WALL - STABILIZE, REPAIR AND RESTORE
  - EK2 EXISTING STONE MASONRY WALL LOWERED TO NEW T.O.W. (CONCRETE REPAIR AND REPAIR FINE MASONRY WORKER PER 4" THICK STONE COPING AND REPAIR REMOVED STONE AS INDICATED)
  - EK3 EXISTING STONE MASONRY WALL W/ CONCRETE REINFORCEMENT - REPAIR AND RESTORE EXISTING STONE MASONRY AND CONCRETE PROVIDE NEW 4" THICK STONE COPING
  - EK4 REPAIR AND RESTORE EXISTING CONCRETE WALL
  - EK5 EXISTING CONCRETE WALL TO REMAIN REMOVE UPPER PORTION OF WALL TO NEW ELEVATION AS INDICATED
- REFER TO SHEET (GRADE & GRAD) FOR ARCHITECTURAL BLANKET TYPES
- REFER TO SHEET (GRADE) FOR ARCHITECTURAL RETAINING WALL TYPES
- REFER TO SHEET (GRADE, BARMS & ISDARD) FOR ARCHITECTURAL BRIDGE TYPES
- REFER TO SHEET (GRADE) FOR CONCRETE SIDEWALK BRIDGE TYPES
- ENTRY MARKER
- ★ INTERPRETIVE GRAPHICS
- ▲ MAP/DIRECTIONAL INFO
- CONCRETE FINISH - REFER ARCHITECTURAL PLAN SERIES AND ISDARD FOR LOCATIONS AND SPECIFIC TYPES
- ▨ NATURAL CONCRETE FINISH W/ PATTERNS IN EXPLODED MASONRY FINISH - REFER TO ARCHITECTURAL PLAN SERIES AND ISDARD FOR LOCATIONS AND SPECIFIC TYPES
- ▧ FINISHES OR UNFINISHED STEEL DECKING - REFER TO ARCHITECTURAL PLAN SERIES FOR LOCATIONS AND TYPES
- ▩ COMPOSITE DECKING - REFER TO ARCHITECTURAL PLAN SERIES FOR LOCATIONS AND TYPES

ISSUE	DATE	DESCRIPTION
	07/31/2015	70% SUBMITTAL
	03/27/2015	40% SUBMITTAL



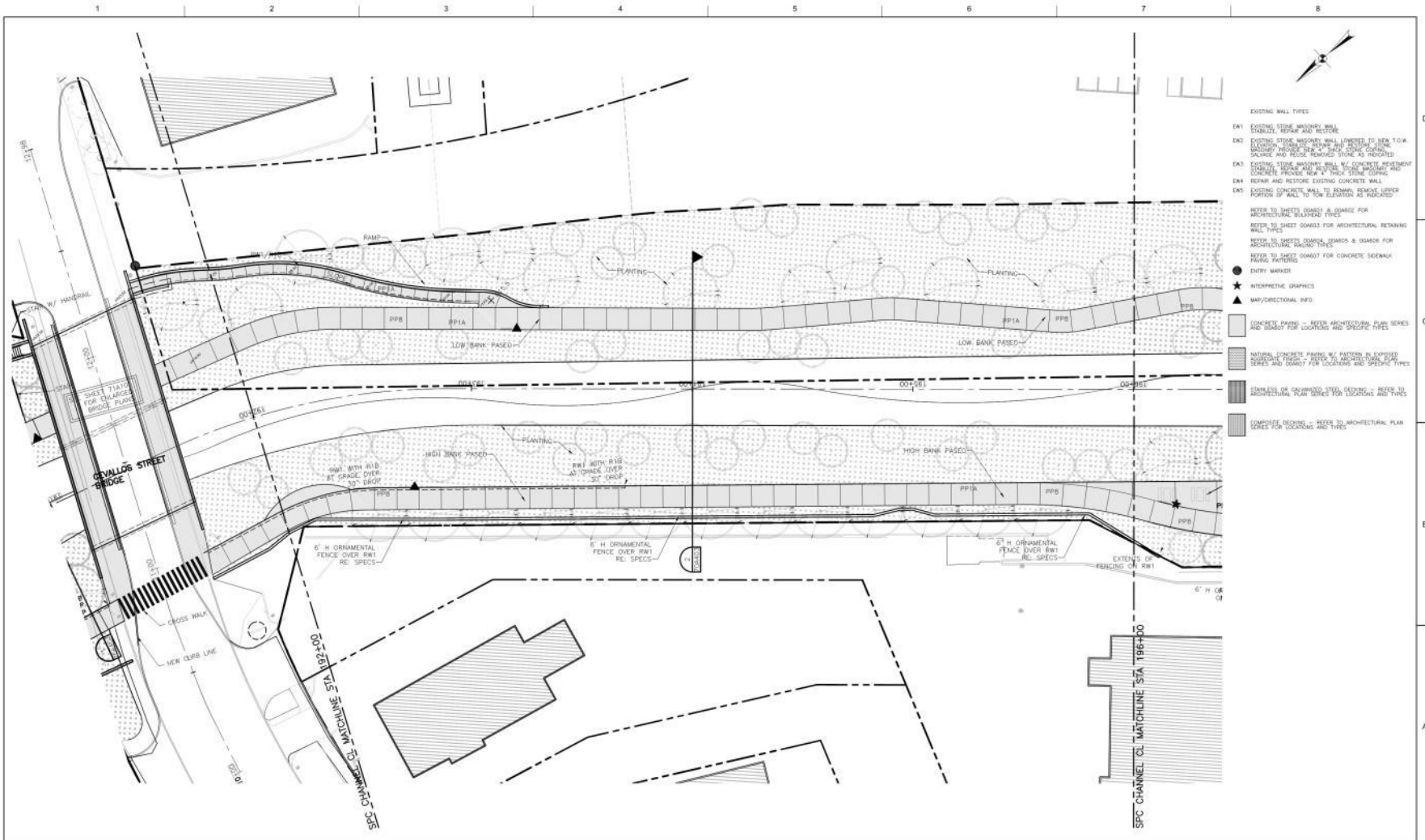
Contractor's Seal  
 CONTRACTOR'S SIGNATURE  
 CONTRACTOR'S TITLE  
 CONTRACTOR'S EXPIRATION DATE

Inspector's Seal  
 INTERIM REVIEW DOCUMENTS  
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**LOWER REACH MAIN CHANNEL PARTIAL SITE PLAN**

Project Name: 00000500228407  
 Scale: 1" = 20'-0"  
 Drawing No: 70A103  
 Prepared by: W. GARRILLO  
 Checked by: Y. YANG  
 SAN PEDRO CREEK IMPROVEMENTS  
 SAN ANTONIO TEXAS



- EXISTING WALL TYPES
- EK1 EXISTING STONE MASSIVE WALL  
CHARLIZE REPAIR AND RESTORE
  - EK2 EXISTING STONE MASSIVE WALL LOWERED TO NEW T.O.M  
REPLACE AND RESTORE EXISTING STONE MASSIVE  
MASONRY MASONRY WITH 4" THICK STONE CONCRETE  
SILLAGE AND RESTORE EXISTING STONE AS INDICATED
  - EK3 EXISTING STONE MASSIVE WALL W/ CONCRETE REINFORCEMENT  
CHARLIZE REPAIR AND RESTORE STONE MASSIVE WALL AND  
CONCRETE PROVIDE NEW 4" THICK STONE COIRING
  - EK4 REMOVE AND RESTORE EXISTING CONCRETE WALL
  - EK5 EXISTING CONCRETE WALL TO REMAIN REMOVE UPPER  
PORTION OF WALL TO NEW ELEVATION AS INDICATED
- SEE TO SHEET (GRADE & DISBOT FOR  
ARCHITECTURAL BLAZED WALL TYPES
- SEE TO SHEET (GRADE & DISBOT FOR ARCHITECTURAL RETAINING  
WALL TYPES
- SEE TO SHEET (GRADE & DISBOT FOR ARCHITECTURAL RETAINING WALL  
TYPES
- SEE TO SHEET (GRADE & DISBOT FOR CONCRETE SIDEWALK  
WALL TYPES
- ENTRY MARKER
  - ★ INTERPRETIVE GRAPHICS
  - ▲ MAP/ORIENTATIONAL INFO
- CONCRETE FINISH - REFER ARCHITECTURAL PLAN SERIES  
AND DISBOT FOR LOCATIONS AND SPECIFIC TYPES
  - ▨ NATURAL CONCRETE FINISH W/ PATTERNS BY EXPLODED  
SUPPORTS FINISH - REFER TO ARCHITECTURAL PLAN  
SERIES AND DISBOT FOR LOCATIONS AND SPECIFIC TYPES
  - ▩ FINISHES OR UNPAVED STEEL DECKING - REFER TO  
ARCHITECTURAL PLAN SERIES FOR LOCATIONS AND FINISHES
  - ▧ COMPOSITE DECKING - REFER TO ARCHITECTURAL PLAN  
SERIES FOR LOCATIONS AND TYPES


ISSUE	DATE	DESCRIPTION
	07/31/2015	70% SUBMITTAL
	03/27/2015	40% SUBMITTAL


  
**SAN ANTONIO RIVER AUTHORITY**  
 Leaders in Watershed Solutions


  
**HDR**  
 Texas P.E. Firm  
 Registration No. F-754


  
**muñoz**

Interm Review Documents  
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**LOWER REACH MAIN CHANNEL PARTIAL SITE PLAN**  
 SAN PEDRO CREEK IMPROVEMENTS  
 SAN ANTONIO TEXAS

Project Number: 00000000229407  
 Scale: 1" = 20'-0"  
 Revision by: W. CASPRILLO  
 Date: Y. YANG

Drawing No. **70A104**  
ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE

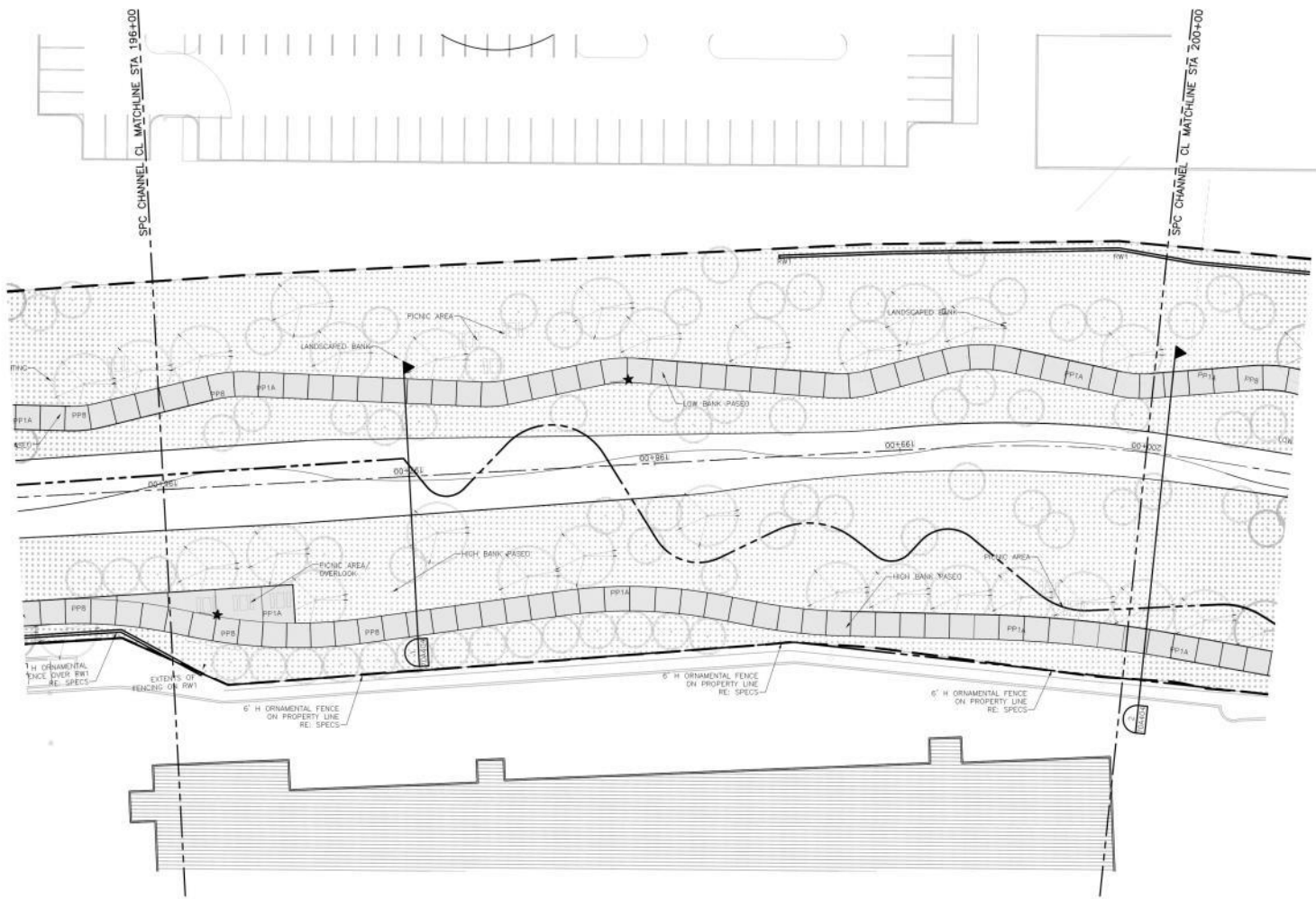


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SPC CHANNEL CL MATCHLINE STA 198+00

SPC CHANNEL CL MATCHLINE STA 209+00

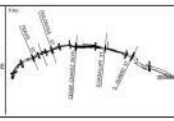


- EXISTING WALL TYPES
- E01 EXISTING STONE MASONRY WALL  
CHARLIZE REPAIR AND RESTORE
- E02 EXISTING STONE MASONRY WALL LOWERED TO NEW T.O.M  
LOCATION. EXISTING REPAIR AND RESTORE. STONE  
MASONRY REPAIR PER "A" PANEL SPEC. CORNER  
SILLING AND PILES REMAIN AS SHOWN
- E03 EXISTING STONE MASONRY WALL W/ CONCRETE REINFORCEMENT  
CHARLIZE REPAIR AND RESTORE. STONE MASONRY AND  
CONCRETE PROVIDE NEW 4" THICK STONE COPIING
- E04 REPAIR AND RESTORE EXISTING CONCRETE WALL
- E05 EXISTING CONCRETE WALL TO REMAIN REMOVE UPPER  
PORTION OF WALL TO T.O.M ELEVATION AS INDICATED
- REFER TO SHEET 06043 & 06046 FOR  
ARCHITECTURAL BLENDED TYPES
- REFER TO SHEET 06043 FOR ARCHITECTURAL RETAINING  
WALL TYPES
- REFER TO SHEET 06043 & 06046 FOR ARCHITECTURAL RETAINING  
WALL TYPES
- REFER TO SHEET 06047 FOR CONCRETE SIDEWALK  
PAVING PATTERNS
- ENTRY MARKER
  - ★ INTERPRETIVE GRAPHIC
  - ▲ MAP/DIRECTIONAL REF.
- CONCRETE PAVING - REFER ARCHITECTURAL PLAN SERIES  
AND 06047 FOR LOCATIONS AND SPECIFIC TYPES
- ▨ NATURAL CONCRETE PAVING W/ PATTERN IN EXPONDED  
AGGREGATE FILL - REFER TO ARCHITECTURAL PLAN  
SERIES AND 06047 FOR LOCATIONS AND SPECIFIC TYPES
- ▧ BRASS/MS OR STAINLESS STEEL DECKING - REFER TO  
ARCHITECTURAL PLAN SERIES FOR LOCATIONS AND TYPES
- ▩ COMPOSITE DECKING - REFER TO ARCHITECTURAL PLAN  
SERIES FOR LOCATIONS AND TYPES

07/31/2015	70% SUBMITTAL	
03/27/2015	40% SUBMITTAL	
ISSUE	DATE	DESCRIPTION



Designer's Seal  
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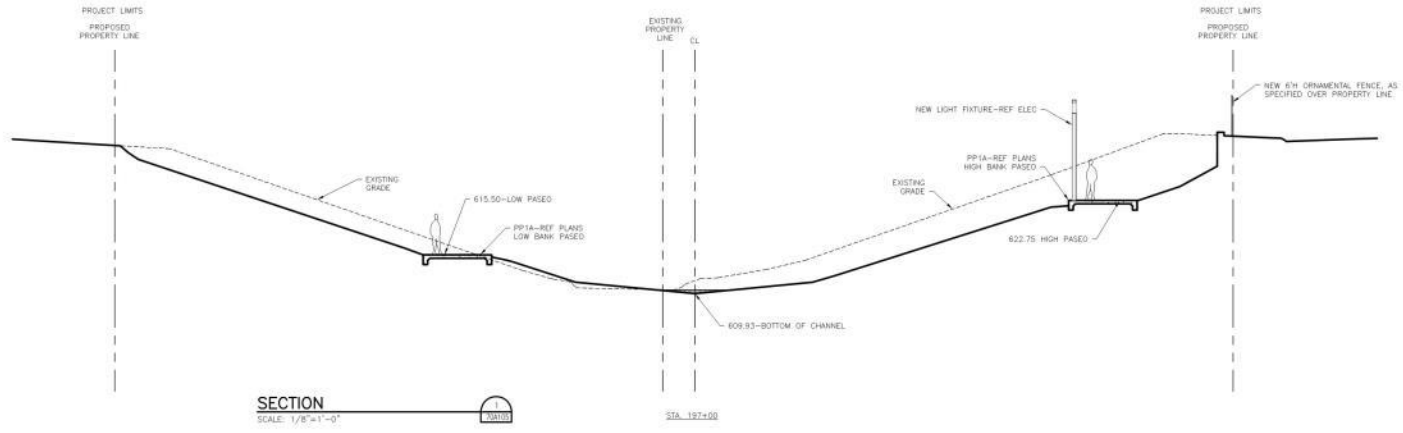


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Title: "A" 20'-0"  
Scale: 1"=20'-0"  
Drawn by: W. CASAPRILLO  
Checked by: Y. YANG

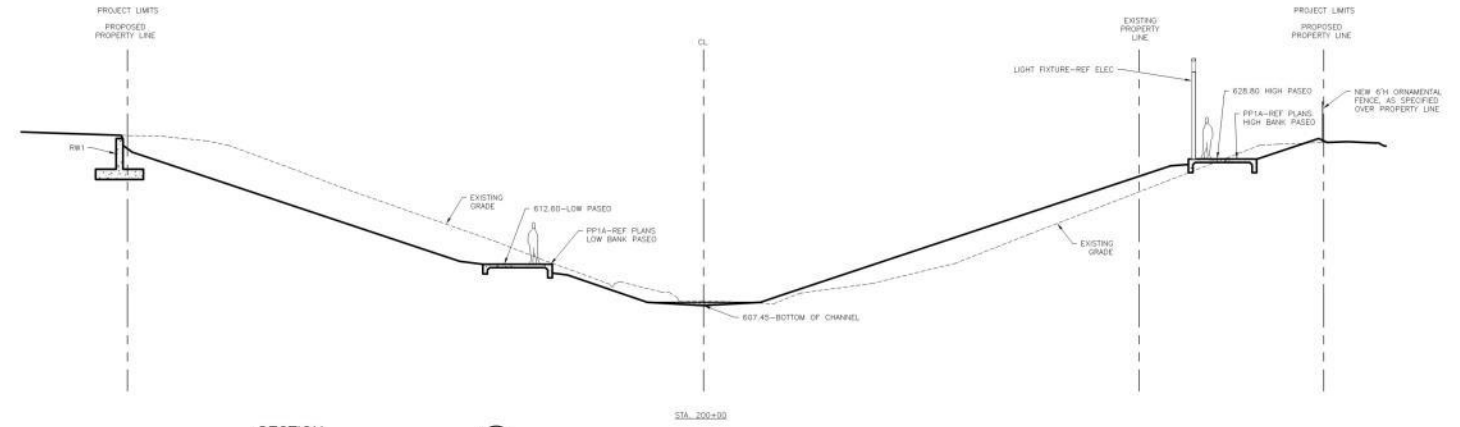
### LOWER REACH MAIN CHANNEL PARTIAL SITE PLAN

SAN PEDRO CREEK IMPROVEMENTS  
SAN ANTONIO TEXAS

70A105



**SECTION**  
SCALE: 1/8"=1'-0"



**SECTION**  
SCALE: 1/8"=1'-0"

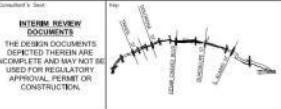
ISSUE	DATE	DESCRIPTION
07/31/2015	70% SUBMITTAL	
05/27/2015	40% SUBMITTAL	

Project Consultant:  
  
SAN ANTONIO RIVER AUTHORITY  
Leaders in Watershed Solutions

Contractor:  
  
Texas P.E. Firm  
Registration No. F-754

Contractor's Seal:  
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Drawing Name:  
**LOWER REACH  
MAIN CHANNEL  
AREA SECTIONS**



Project Number:  
00000000228497

Scale:  
1/8" = 1'-0"

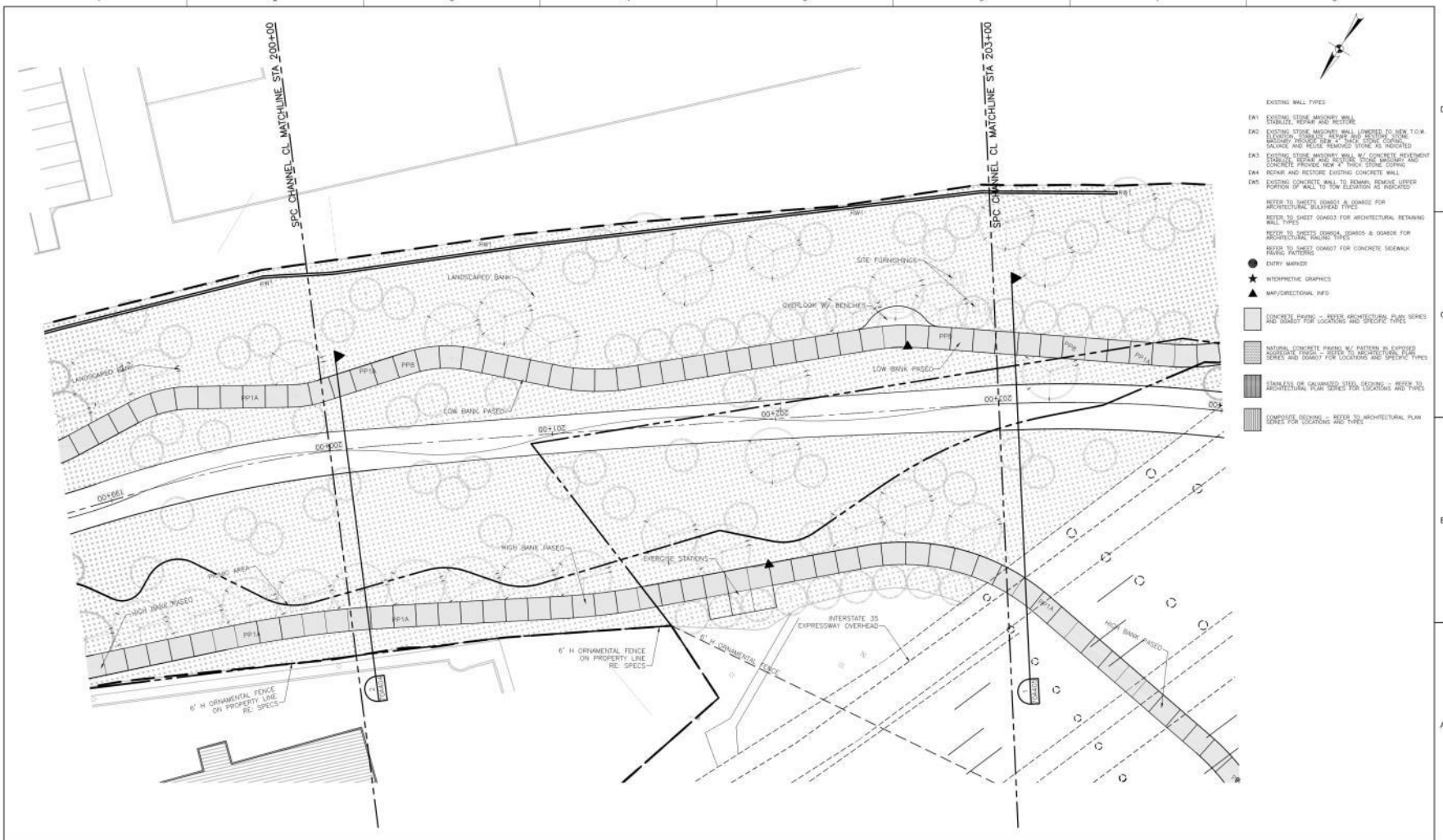
Date:  
1/2/16

Revised by:  
V. CAMPBELL

Checked by:  
F. DE LA ROSA

Drawing No. **70A404**

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- EXISTING WALL TYPES
- EA1 EXISTING STONE MASSIVE WALL  
STABILIZE, REPAIR AND RECTIFY
  - EA2 EXISTING STONE MASSIVE WALL LOWEDED TO NEW T.O.W.  
FLUSH WITH EXISTING BEARS AND EXISTING STONE  
MASONRY REPAIR PER 4" MIN. STONE CORING  
SOUNDNESS AND REPAIR REWORKED STONE AS INDICATED
  - EA3 EXISTING STONE MASSIVE WALL W/ CONCRETE REINFORCEMENT  
STABILIZE, REPAIR AND RECTIFY STONE MASONRY AND  
CONCRETE PROVIDE NEW 4" THICK STONE COIRING
  - EA4 REPAIR AND RECTIFY EXISTING CONCRETE WALL
  - EA5 EXISTING CONCRETE WALL TO REMAIN REMOVE UPPER  
PORTION OF WALL TO NEW ELEVATION AS INDICATED
- REFERS TO SHEET 00403 FOR ARCHITECTURAL FINISHED WALL TYPES
- REFERS TO SHEET 00403 FOR ARCHITECTURAL RETAINING WALL TYPES
- REFERS TO SHEETS 00405, 0406S & 0406D FOR ARCHITECTURAL RETAINING WALL TYPES
- REFERS TO SHEET 00407 FOR CONCRETE SIDEWALK WALL FINISHING
- ENTRY MARKER
  - ★ INTERPRETIVE GRAPHICS
  - ▲ MAP/ORIENTATIONAL INFO
- CONCRETE PAVING - REFER ARCHITECTURAL PLAN SERIES AND 00407 FOR LOCATIONS AND SPECIFIC TYPES
  - ▨ NATURAL CONCRETE PAVING W/ PATTERNS IN EXPOSED SURFACES FINISH - REFER TO ARCHITECTURAL PLAN SERIES AND 00407 FOR LOCATIONS AND SPECIFIC TYPES
  - ▤ FINISHES OR UNPAVED STEEL DECKING - REFER TO ARCHITECTURAL PLAN SERIES FOR LOCATIONS AND FINISHES
  - ▦ COMPOSITE DECKING - REFER TO ARCHITECTURAL PLAN SERIES FOR LOCATIONS AND TYPES

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03/27/2015	40% SUBMITTAL	
<b>ISSUE</b>	<b>DATE</b>	<b>DESCRIPTION</b>

**SAN ANTONIO RIVER AUTHORITY**  
Leaders in Watershed Solutions

**HDR**  
Texas P.E. Firm  
Registration No. F-754

**muñoz**

Contractor's Seal

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Sheet Name

## LOWER REACH MAIN CHANNEL PARTIAL SITE PLAN

SAN PEDRO CREEK IMPROVEMENTS  
SAN ANTONIO TEXAS

Project Number: 00000000229407

Scale: 1" = 20'-0"

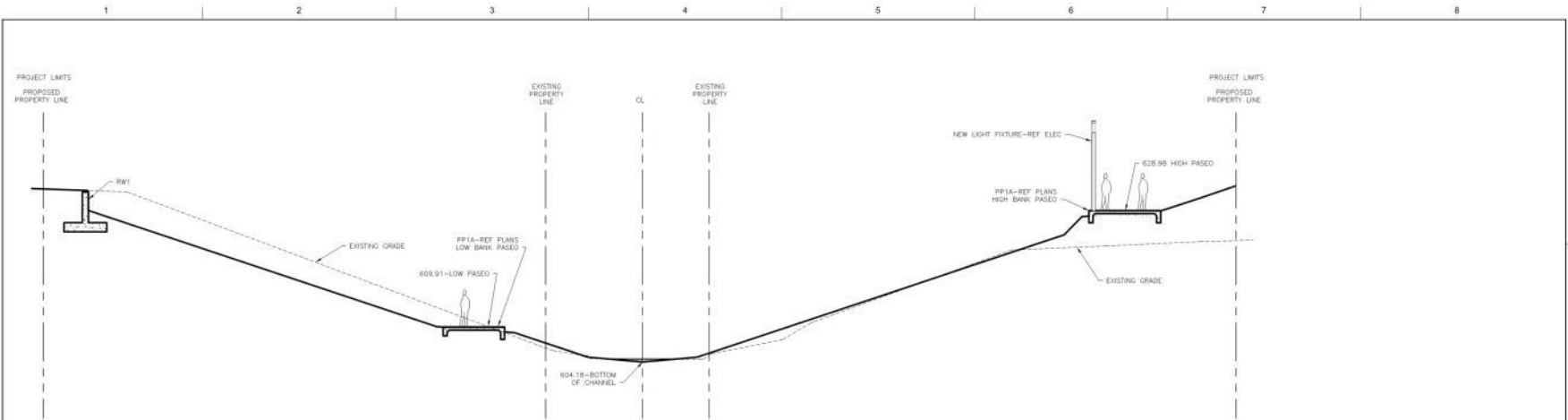
Reviewed by: W. CASPILLO

Drawn by: Y. YANG

Sheet No: 70A106

DATE PLOTTED: 03/27/2015 10:57 AM





**SECTION**  
SCALE: 1/8"=1'-0"

STA\_203+00

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**SAN ANTONIO RIVER AUTHORITY**  
 Leaders in Watershed Solutions

**HDR**  
 Texas P.E. Firm  
 Registration No. F-754

  
**muñoz**

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**LOWER REACH MAIN CHANNEL AREA SECTIONS**

SAN PEDRO CREEK IMPROVEMENTS  
SAN ANTONIO, TEXAS

Project Number: 00000000228497

Scale: 1/8" = 1'-0"

Sheet: 70A405

Prepared by: V. CARPANELLO

Checked by: F. DE LA ROSA





- EXISTING WALL TYPES**
- EK1 EXISTING STONE MASONRY WALL - STABILIZE, REPAIR AND RECTIFY
  - EK2 EXISTING STONE MASONRY WALL LOWERED TO NEW T.O.W. ELEVATION - STABILIZE, REPAIR AND RECTIFY. STONE MASONRY REPAIR PER 4" THICK STONE COURSE, SAND AND POLYMER BLENDED STONE AS INDICATED
  - EK3 EXISTING STONE MASONRY WALL W/ CONCRETE REINFORCEMENT CHANNEL - REPAIR AND RECTIFY. STONE MASONRY AND CONCRETE PROVIDE NEW 4" THICK STONE COURSE
  - EK4 REPAIR AND REDUCE EXISTING CONCRETE WALL
  - EK5 EXISTING CONCRETE WALL TO REMAIN, REMOVE LOWER PORTION OF WALL TO NEW ELEVATION AS INDICATED
- REFER TO SHEET 00403 & 04040 FOR ARCHITECTURAL BLAZED WALL TYPES
- REFER TO SHEET 00403 FOR ARCHITECTURAL RETAINING WALL TYPES
- REFER TO SHEET 00403, 04040 & 04045 FOR ARCHITECTURAL BLAZED TYPES
- REFER TO SHEET 00407 FOR CONCRETE SIDEWALK PAVED TYPES
- ENTRY MARKER
  - ★ INTERPRETIVE GRAPHICS
  - ▲ MAP/ORIENTATIONAL INFO
- CONCRETE PAVING - REFER ARCHITECTURAL PLAN SERIES AND 04047 FOR LOCATIONS AND SPECIFIC TYPES
  - NATURAL CONCRETE PAVING W/ FINISH IN EXPOSED AGGREGATE FINISH - REFER TO ARCHITECTURAL PLAN SERIES AND 04047 FOR LOCATIONS AND SPECIFIC TYPES
  - DIAMOND OR COMPOUND STEEL DECKING - REFER TO ARCHITECTURAL PLAN SERIES FOR LOCATIONS AND TYPES
  - COMPOSITE DECKING - REFER TO ARCHITECTURAL PLAN SERIES FOR LOCATIONS AND TYPES

ISSUE	DATE	DESCRIPTION
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**LOWER REACH MAIN CHANNEL PARTIAL SITE PLAN**

Project Number: 00000000129407  
Scale: 1" = 20'-0"  
Prepared by: M. CASPILLO  
Checked by: Y. YANG

Drawing No: 70A107

SAN PEDRO CREEK IMPROVEMENTS  
SAN ANTONIO TEXAS