

**LEGEND**

- IRON PIPE
- MONUMENT
- VALVE
- FIRE HYDRANT
- SIGN
- TRAFFIC SIGNAL
- STREET LIGHT
- LIGHT POLE
- GUY ANCHOR
- UTILITY POLE
- PROPERTY LINE
- EASEMENT
- CENTER LINE
- GRADE BREAK
- FENCE
- SD STORM DRAIN
- SS SANITARY SEWER
- OVH OVERHEAD UTILITY LINE
- UG UNDERGROUND GAS LINE
- TEL UNDERGROUND TELECOM LINE
- W WATER
- E UNDERGROUND ELECTRIC LINE
- CONCRETE

**NOTES**

1. BOUNDARY AND EASEMENT INFORMATION ARE BASED ON RECORD INFORMATION ONLY.
2. TOPOGRAPHY AND BOUNDARY DATA SHOWN ON THESE PLANS WAS PREPARED BY BKF IN JANUARY 2022.
3. ALL DISTANCES AND DIMENSIONS ARE IN FEET AND DECIMALS THEREOF.
4. THE UTILITIES SHOWN ON THIS PLAN ARE DERIVED FROM SURFACE OBSERVATIONS AND RECORD DATA. LOCATION AND SIZE, TOGETHER WITH THE PRESENCE OF ANY ADDITIONAL UTILITY LINES NOT SHOWN ON THIS PLAN SHALL BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION.
5. ALL EXISTING UTILITY WITHIN THE PROPOSED SIDEWALK TO BE ADJUSTED TO GRADE OR RELOCATED AS NEEDED.
6. DEVELOPER SHALL BE FINANCIALLY RESPONSIBLE FOR FAIR SHARE OF OVERHEAD UNDERGROUNDING ALONG SITE FOOTAGE.

**BASIS OF BEARING**

THE COORDINATES AND BEARINGS AS SHOWN HEREON ARE BASED UPON THE CALIFORNIA STATE PLANE COORDINATE SYSTEM OF 1983, (CC83), ZONE 3, (1991.35). ALL DISTANCES SHOWN, UNLESS OTHERWISE NOTED, ARE IN TERMS OF THE U.S. SURVEY FOOT.

**BENCHMARK**

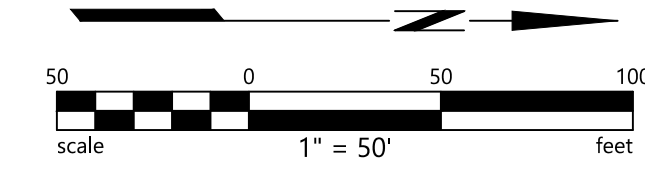
BENCHMARK: CITY OF ANTIOCH BENCHMARK 3561  
ELEVATION = 13.397 (NGVD29)

**KEYNOTES**

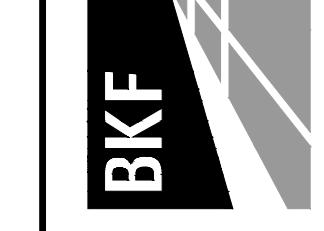
- 1 DEMOLISH
- 2 PROTECT
- 3 REPLACE

**ABBREVIATIONS**

- ± MORE OR LESS
- AC ASPHALT CONCRETE
- APN ASSESSOR'S PARCEL NUMBER
- BFP BACKFLOW PREVENTOR
- CONC CONCRETE
- DIA DIAMETER
- DN DOCUMENT NUMBER
- DW DRIVEWAY
- E ELECTRIC
- (E) EAST
- EP EDGE OF PAVEMENT
- ESMT EASEMENT
- G GAS
- GM GAS METER
- GYP GUY POLE
- HB HOSE BIB
- HDRL HANDRAIL
- HT HEIGHT
- INV BOTTOM INSIDE OF PIPE
- IP IRON PIPE
- (N) NORTH
- OVH OVERHEAD UTILITY LINE
- PBA PUSH BUTTON ASSEMBLY POST
- PG&E PACIFIC GAS & ELECTRIC
- RCP REINFORCED CONCRETE PIPE
- (S) SOUTH
- SD STORM DRAIN
- SDCB STORM DRAIN CATCH BASIN
- SDCO STORM DRAIN CLEAN OUT
- SDGI GRATE INLET
- SDMH STORM DRAIN MANHOLE
- SS SANITARY SEWER
- SSCO SANITARY SEWER CLEAN OUT
- SSMH SANITARY SEWER MANHOLE
- SQ SQUARE
- TB TOP OF BOX
- TEL TELECOMMUNICATION
- TG TOP OF GRATE
- TV TELEVISION
- TYP TYPICAL
- UB UTILITY BOX
- VCP VITRIFIED CLAY PIPE
- W WATER
- (W) WEST
- WM WATER METER
- YD YARD DRAIN



**BKF ENGINEERS**  
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SUITE 100  
WALNUT CREEK, CA 94596  
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www.bkf.com



**18TH STREET DEVELOPMENT - EAST**  
APN 051-052-056, PERMIT#: GP-22-02, SP-22-01, PD-22-01, UP-22-03, AR-22-03  
ANTIOCH, CA

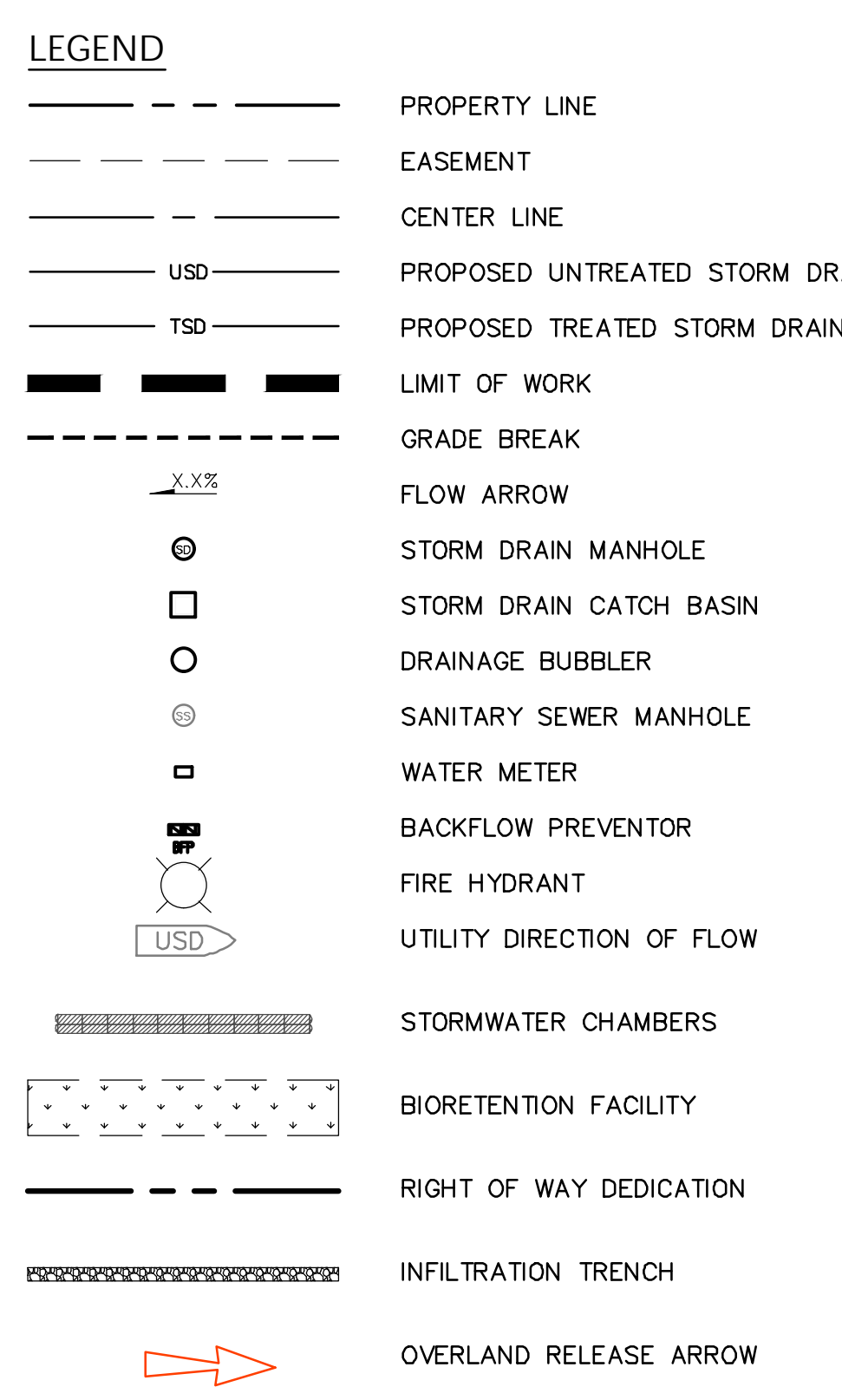
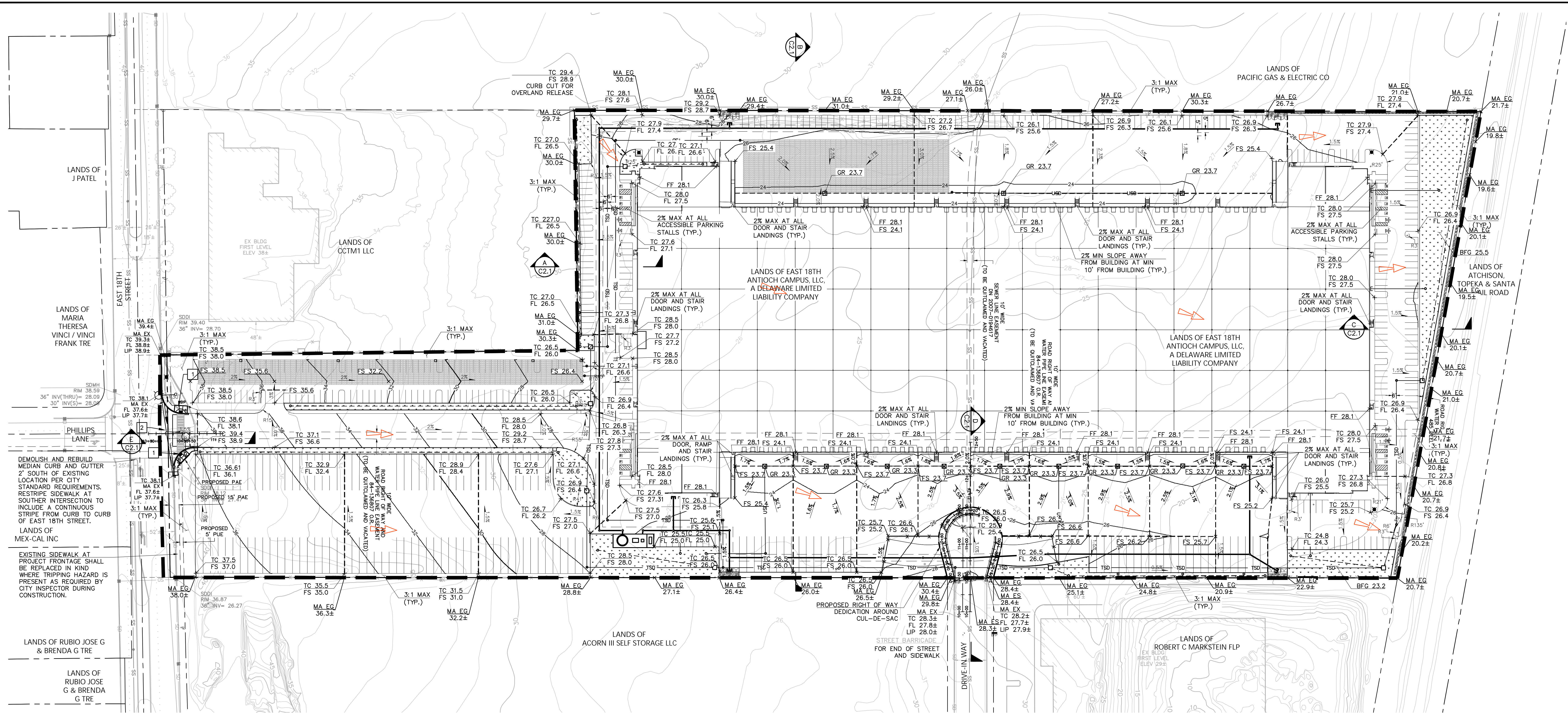
**EXISTING CONDITIONS**

No.	Revisions

Date: 06/20/2022  
Scale: AS SHOWN  
Design: AZ  
Drawn: DBL, MK  
Approved: MS  
Job: 18-22-02/025

Drawing Number:  
**C1.0**  
1 OF 6





**NOTES**

- EXISTING UTILITIES SHOWN ON THIS PLAN SET ARE DERIVED FROM RECORD DATA AND/OR SURFACE OBSERVATION AND ARE APPROXIMATE ONLY. ACTUAL LOCATION, DEPTH AND SIZE, TOGETHER WITH THE PRESENCE OF ANY ADDITIONAL UTILITY LINES NOT SHOWN ON THIS PLAN SHALL BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION.
- ALL EXISTING UTILITY BOXES, STRUCTURES, MANHOLES AND VALVES WITHIN THE LIMIT OF WORK SHALL BE ADJUSTED TO FINAL GRADE UNLESS OTHERWISE NOTED.
- PROPOSED BUILDING IS FOR REFERENCE ONLY. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

**KEYNOTES**

- CURB RAMP PER CITY OF ANTIOCH CONSTRUCTION DETAIL ST-12
- VALLEY GUTTER PER CITY OF ANTIOCH CONSTRUCTION DETAIL ST-08

**EARTHWORKS**

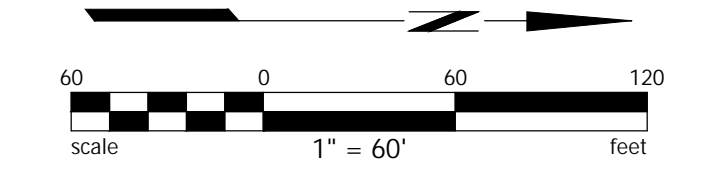
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**ASSUMPTIONS:**

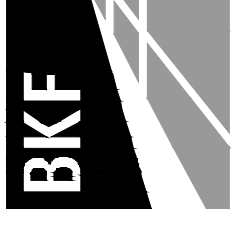
- ESTIMATE IS APPROXIMATE AND ARE BASED ON AERIAL TOPOGRAPHY, SUPPLEMENTAL SURVEY, AND AVAILABLE RECORD INFORMATION.
- THE EARTHWORKS QUANTITIES REPRESENTS EARTHWORK FROM EXISTING GRADE TO PROPOSED GRADE.

**ABBREVIATIONS**

- ± MORE OR LESS
- AC ASPHALT CONCRETE
- BW BOTTOM OF WALL
- EG EXISTING GRADE
- EX EXISTING
- FF FINISHED FLOOR
- FG FINISHED GRADE
- FL FLOW LINE
- FS FINISHED SURFACE
- GR GRATE
- MA MATCH
- MAX MAXIMUM
- MIN MINIMUM
- SD STORM DRAIN
- TC TOP OF CURB
- TW TOP OF WALL
- TSD TREATED STORM DRAIN
- USD UNTREATED STORM DRAIN



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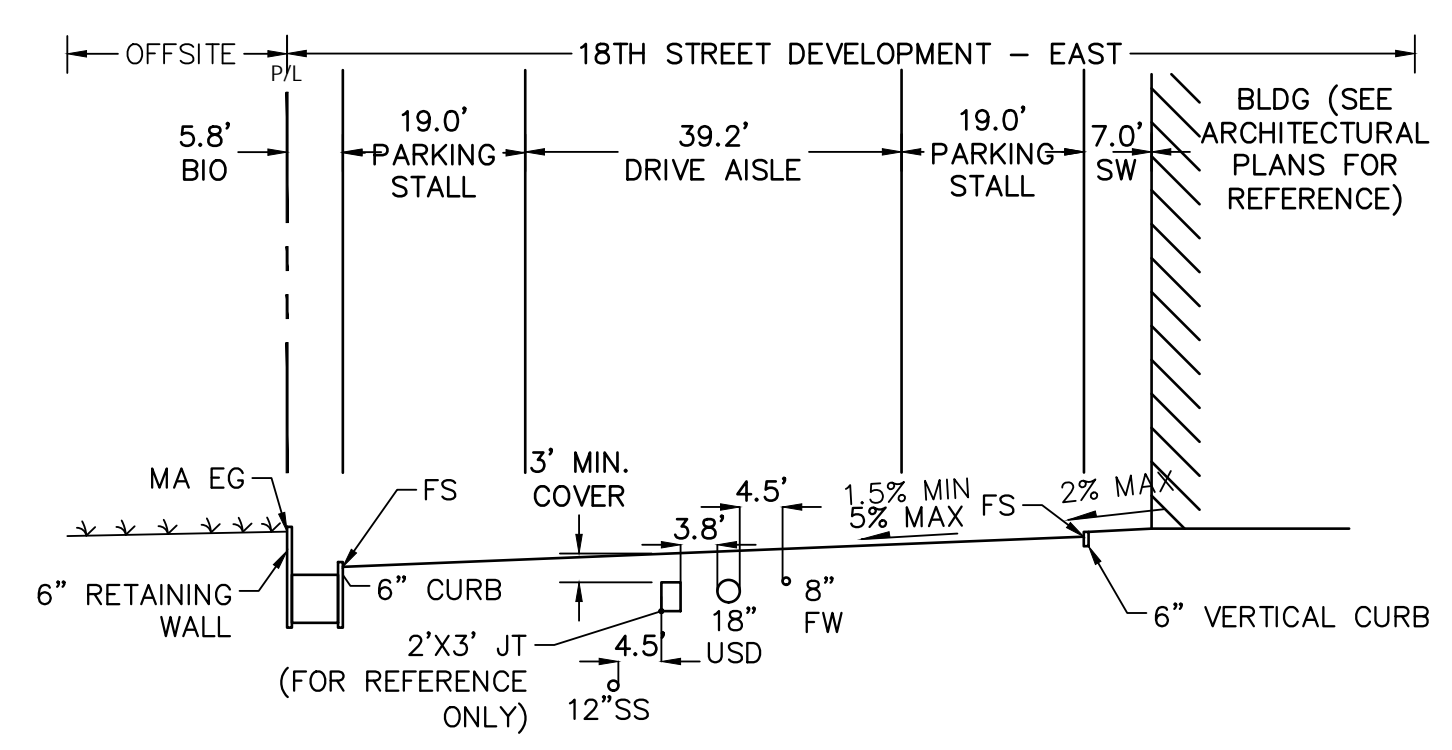
18TH STREET DEVELOPMENT - EAST  
 APN 051-052-056, PERMIT# GP-22-02, SP-22-01, PD-22-01, UP-22-03, AR-22-03  
 ANTIOCH, CA

**Revisions**

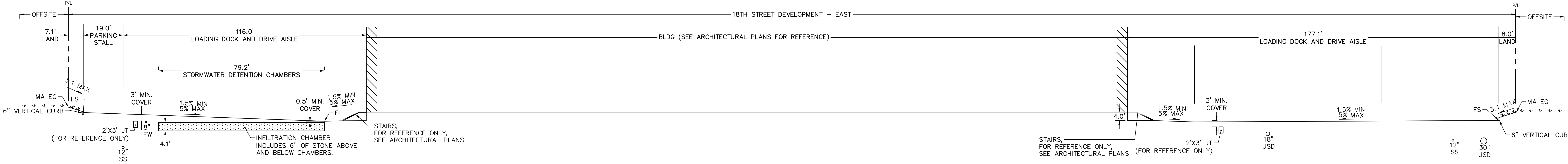
No.	Date	Description
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2	08/20/2022	DESIGN
3	08/20/2022	APPROVED

Drawing Number: **C2.0**  
 2 OF 6

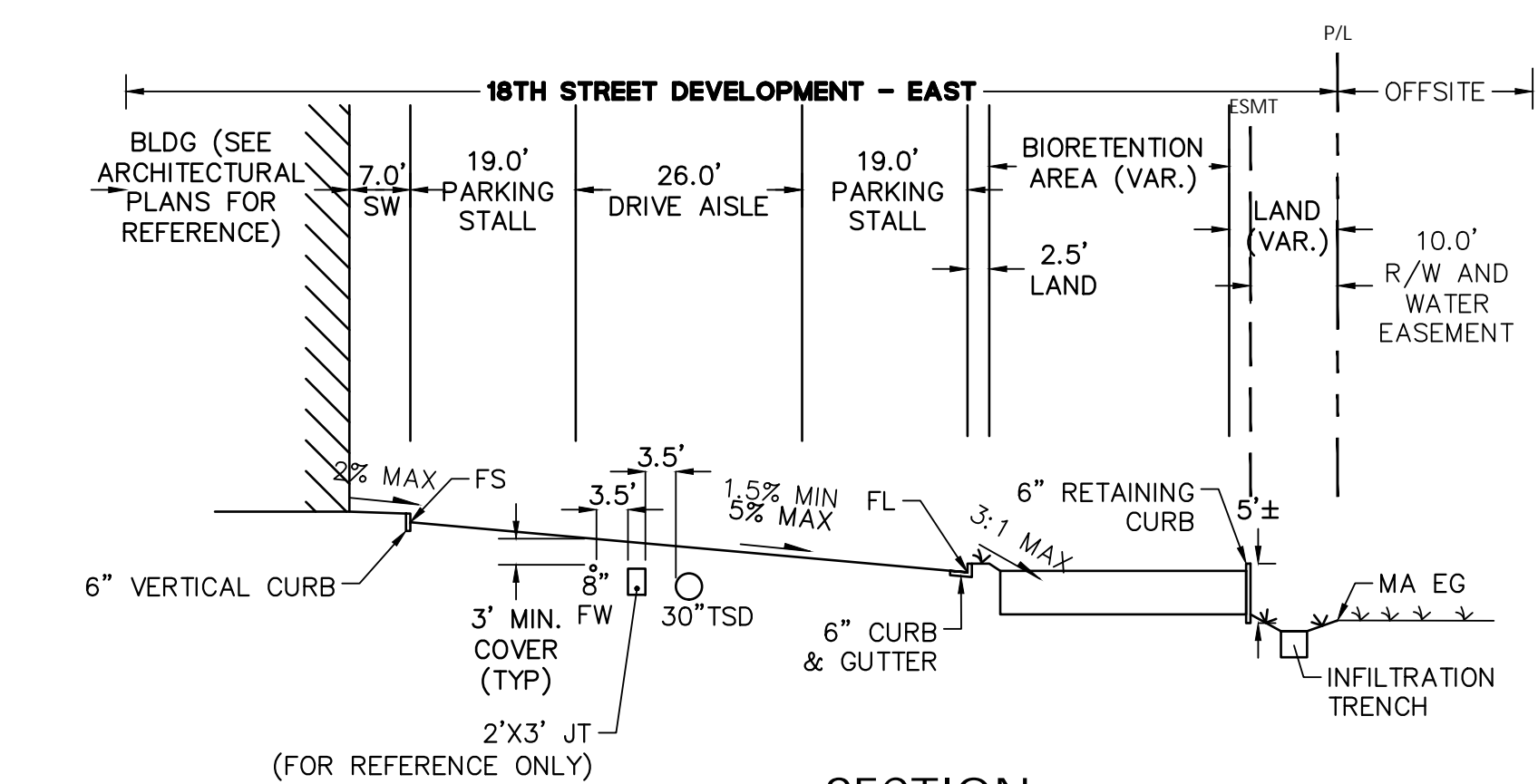




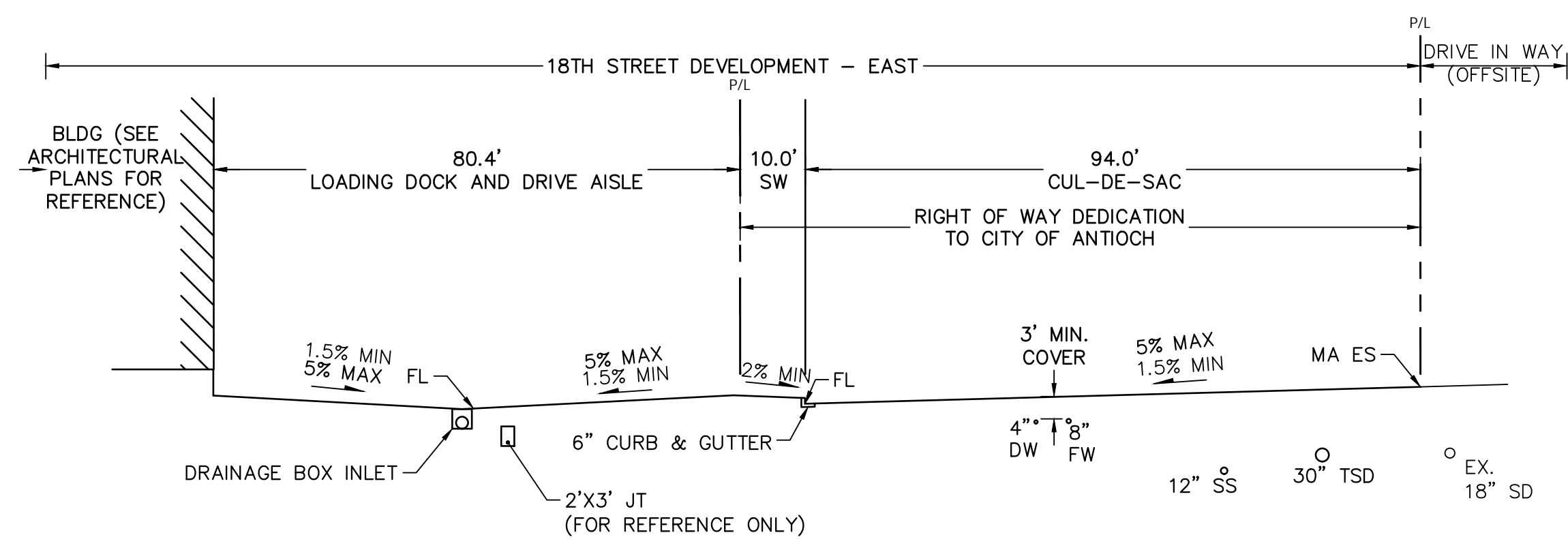
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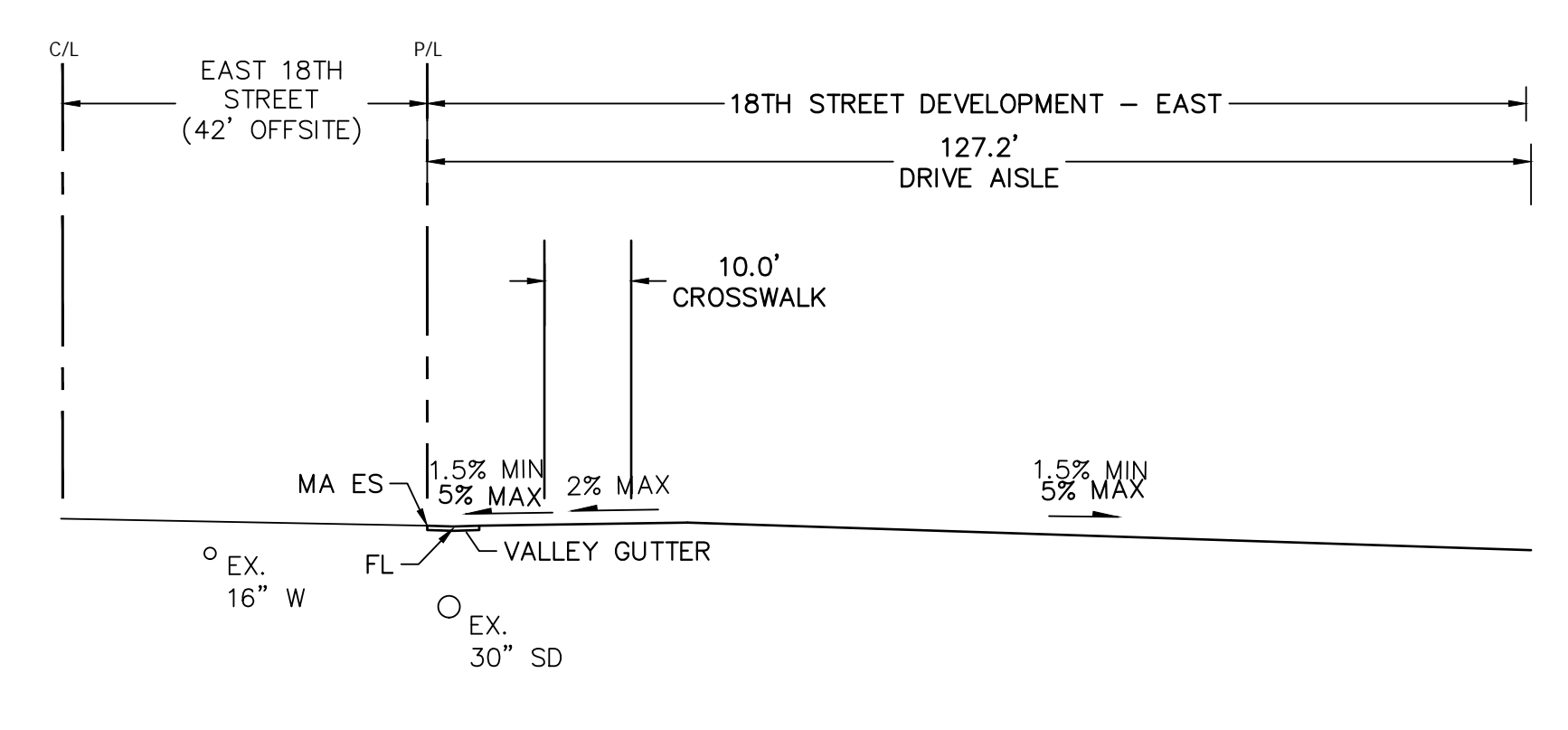
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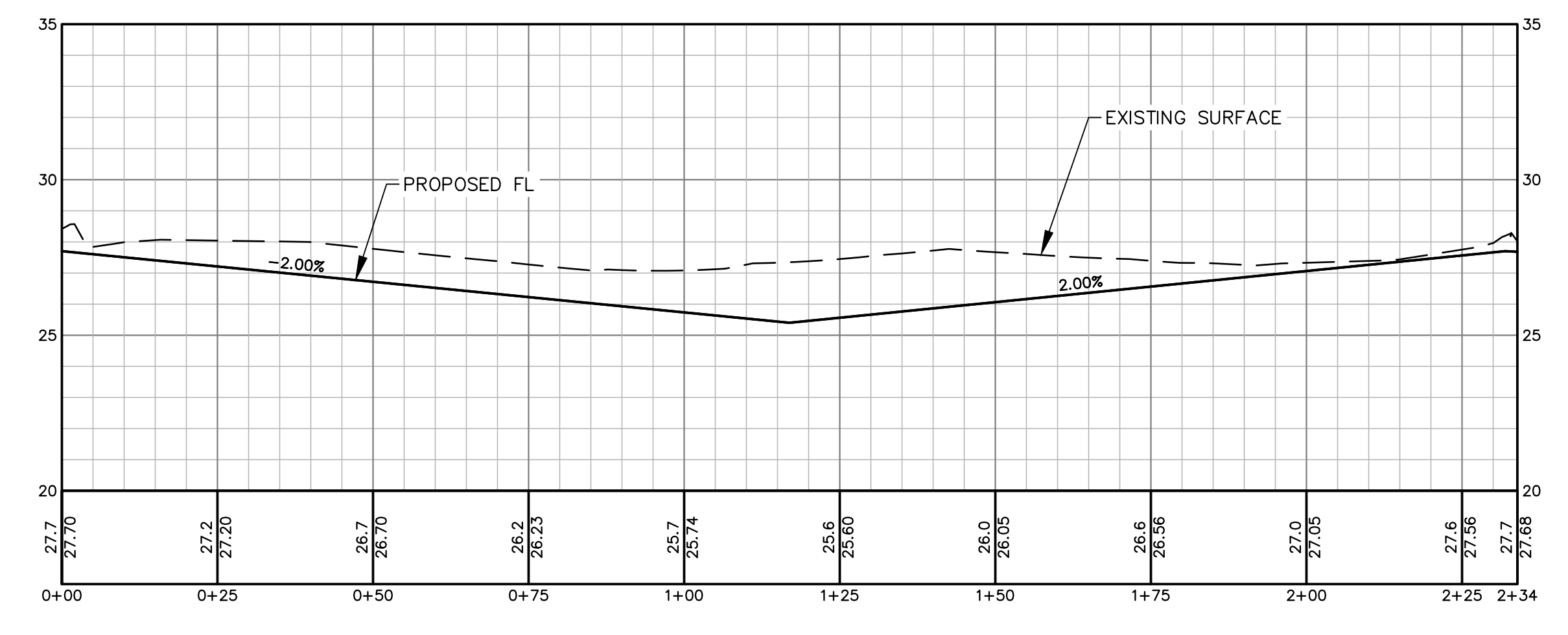
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**D** SECTION  
 SCALE: 1"=20'

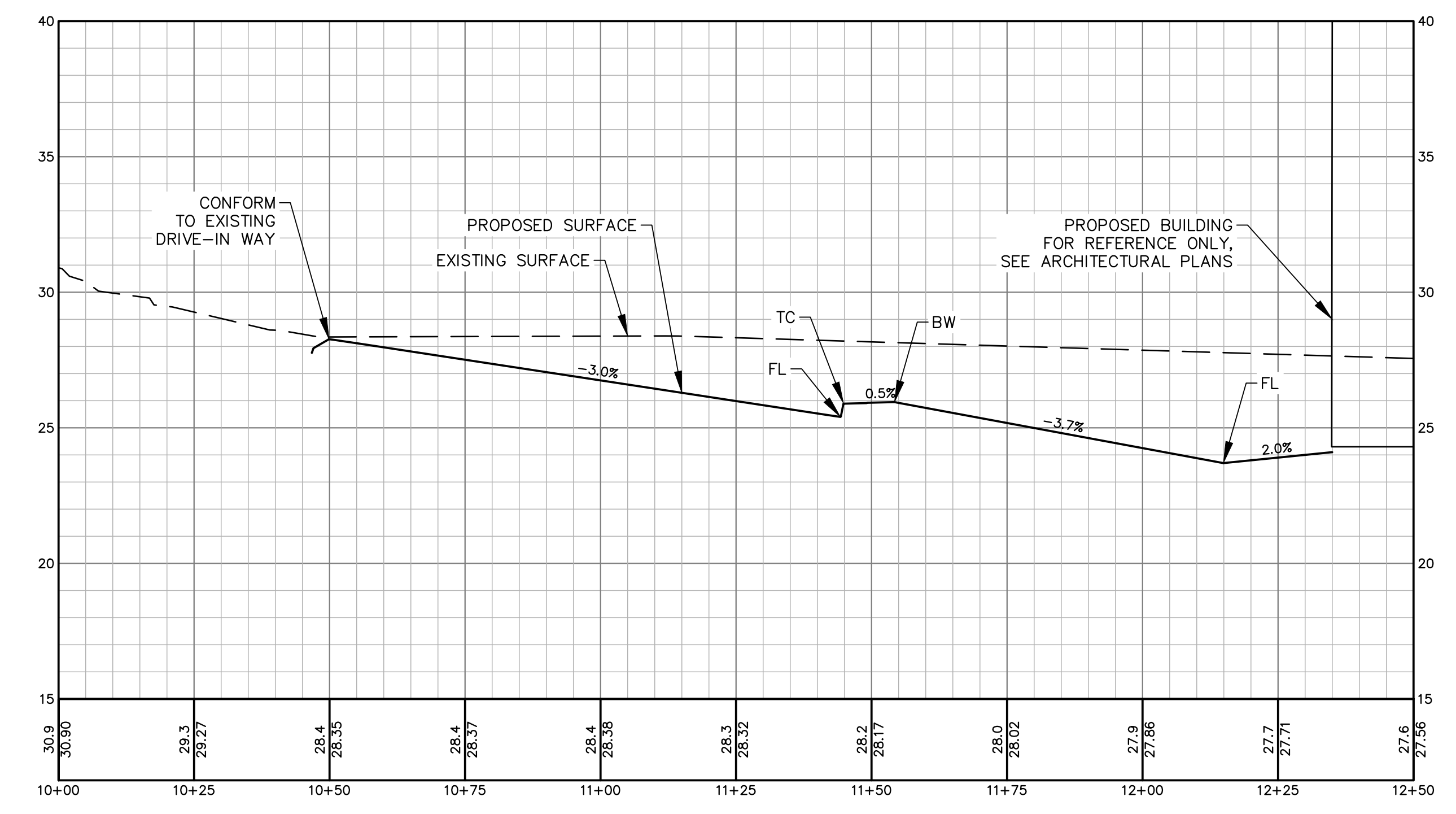


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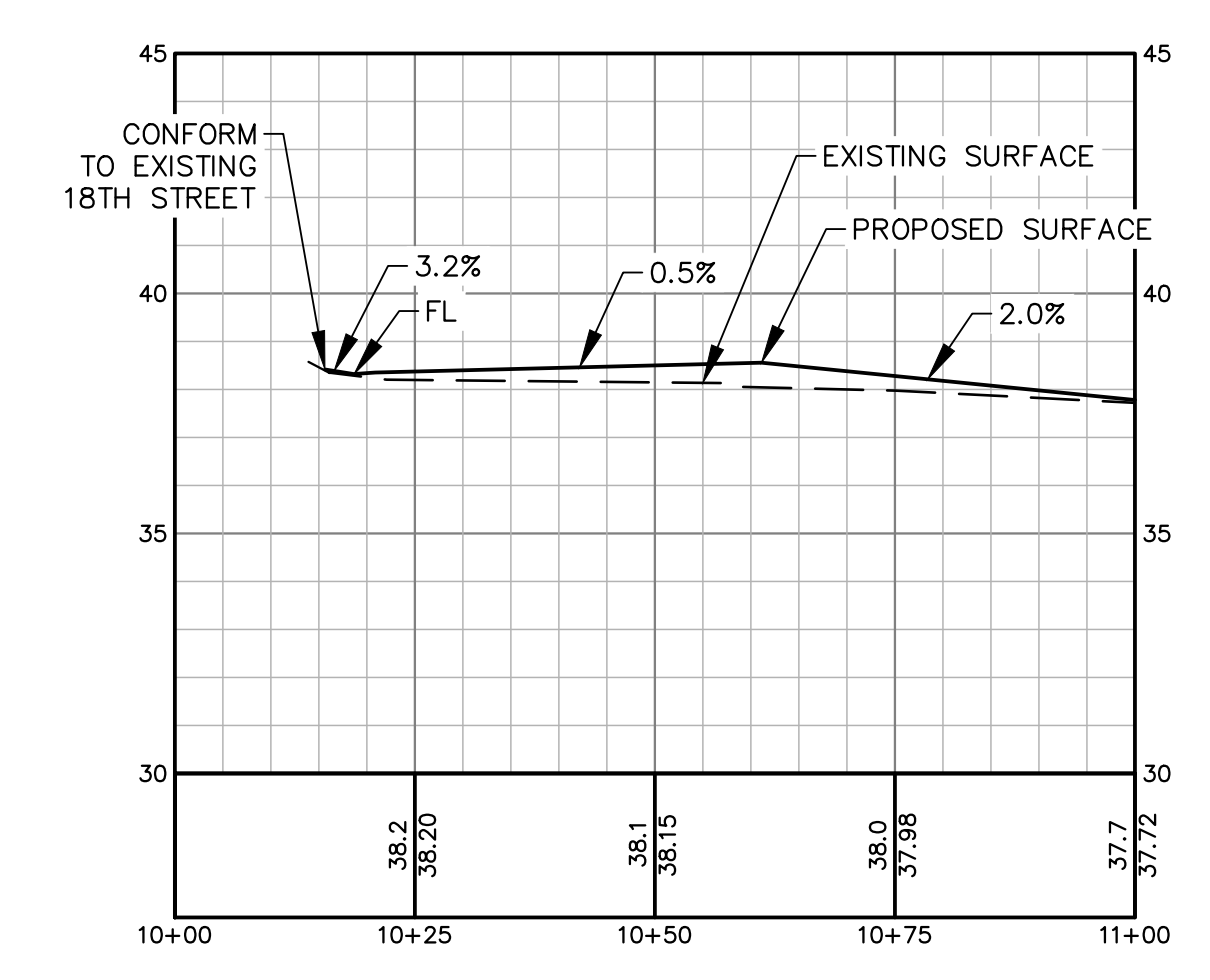
CULDESAC FL (DECA EAST)

H: 1"=20'  
 V: 1"=4'



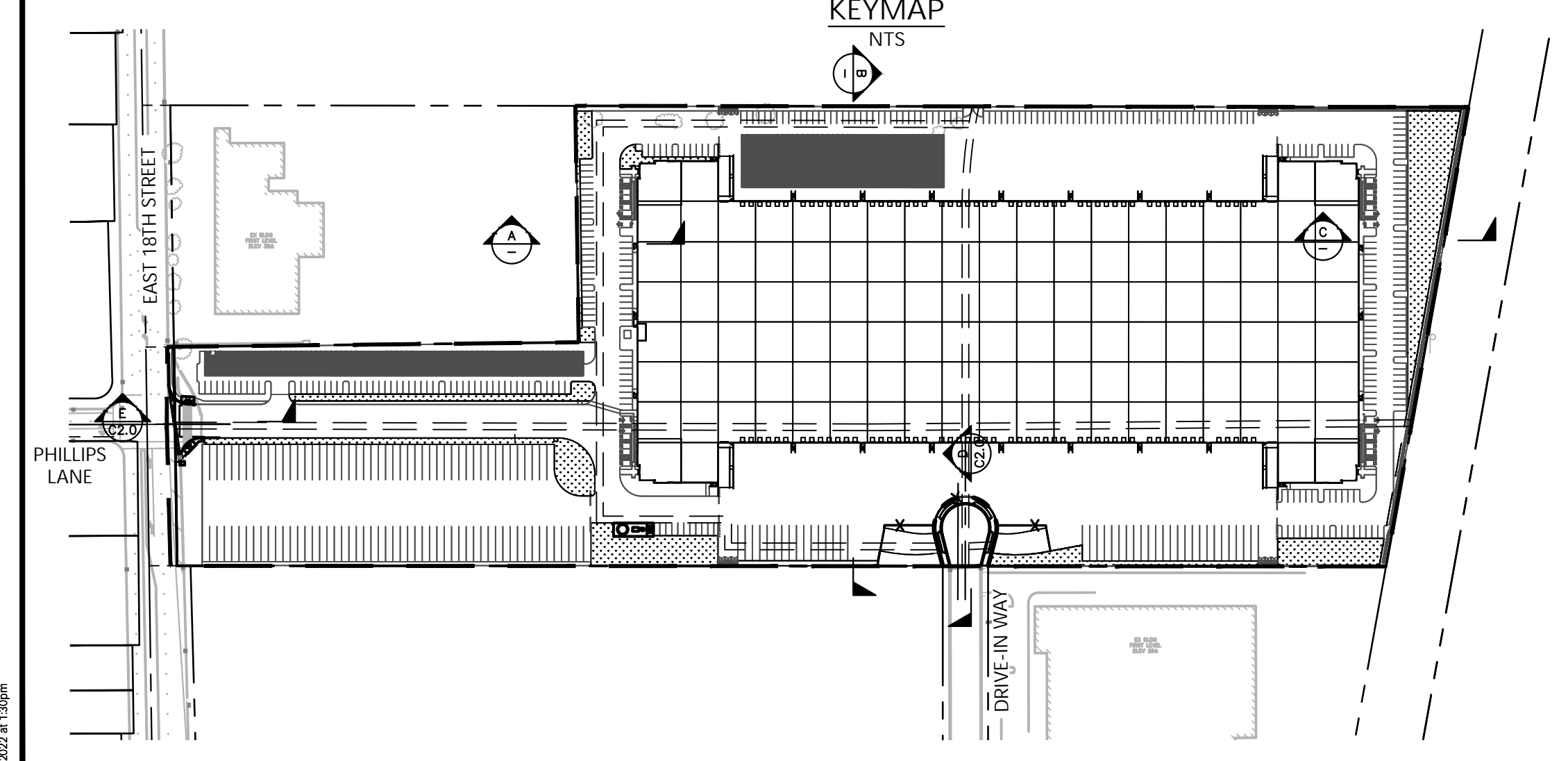
SECTION D (DECA EAST)

H: 1"=20'  
 V: 1"=4'



SECTION E (DECA EAST)

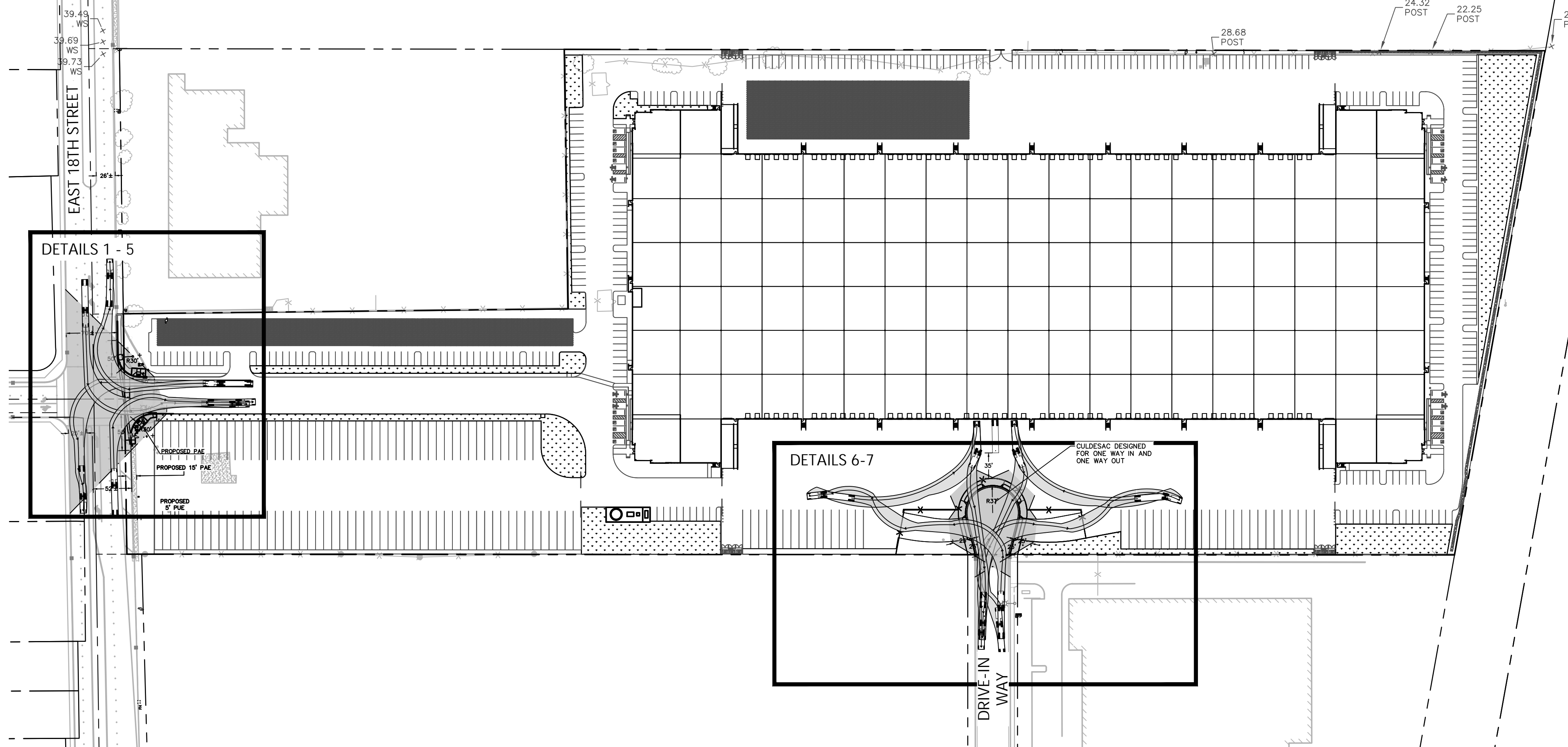
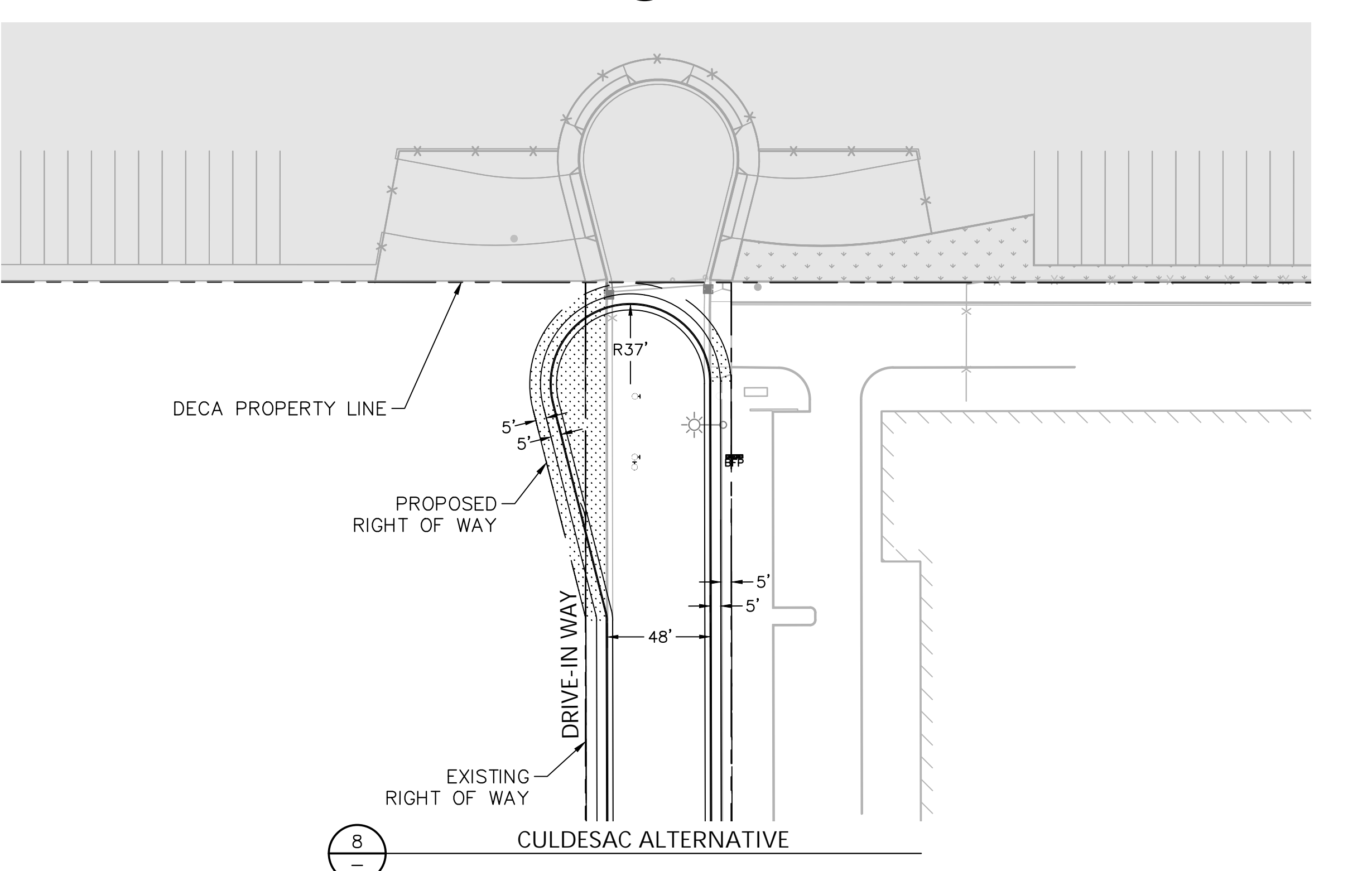
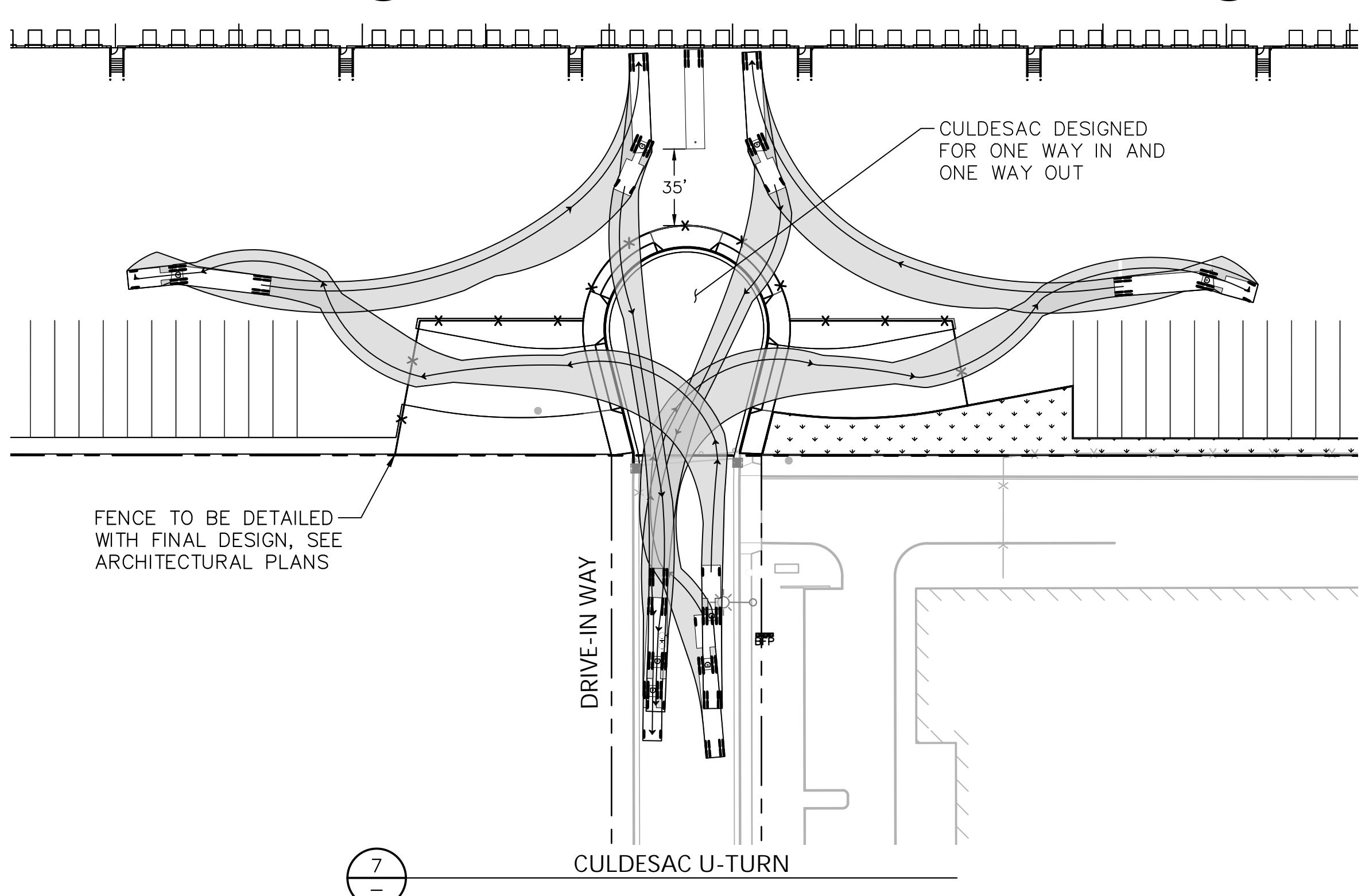
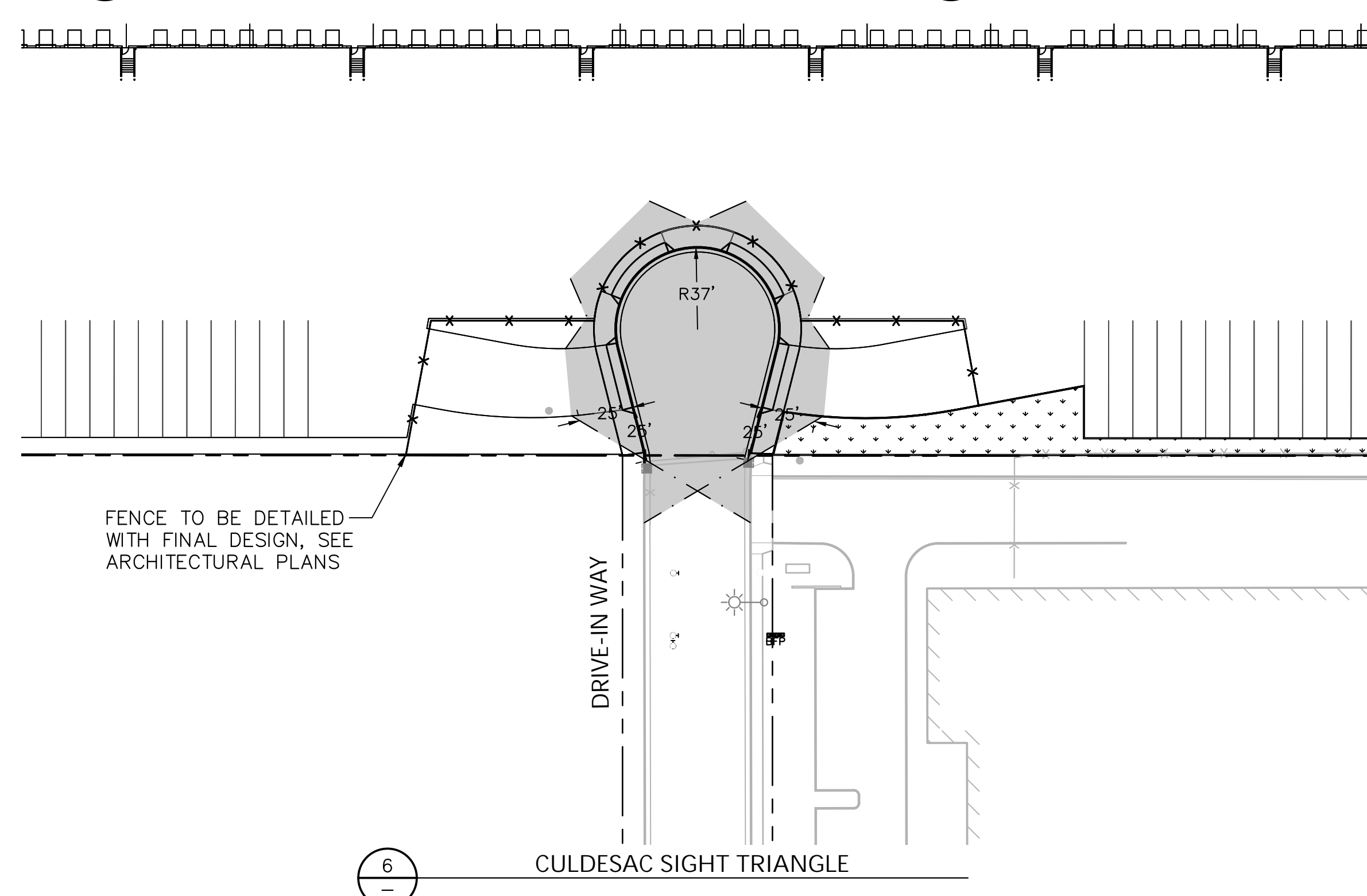
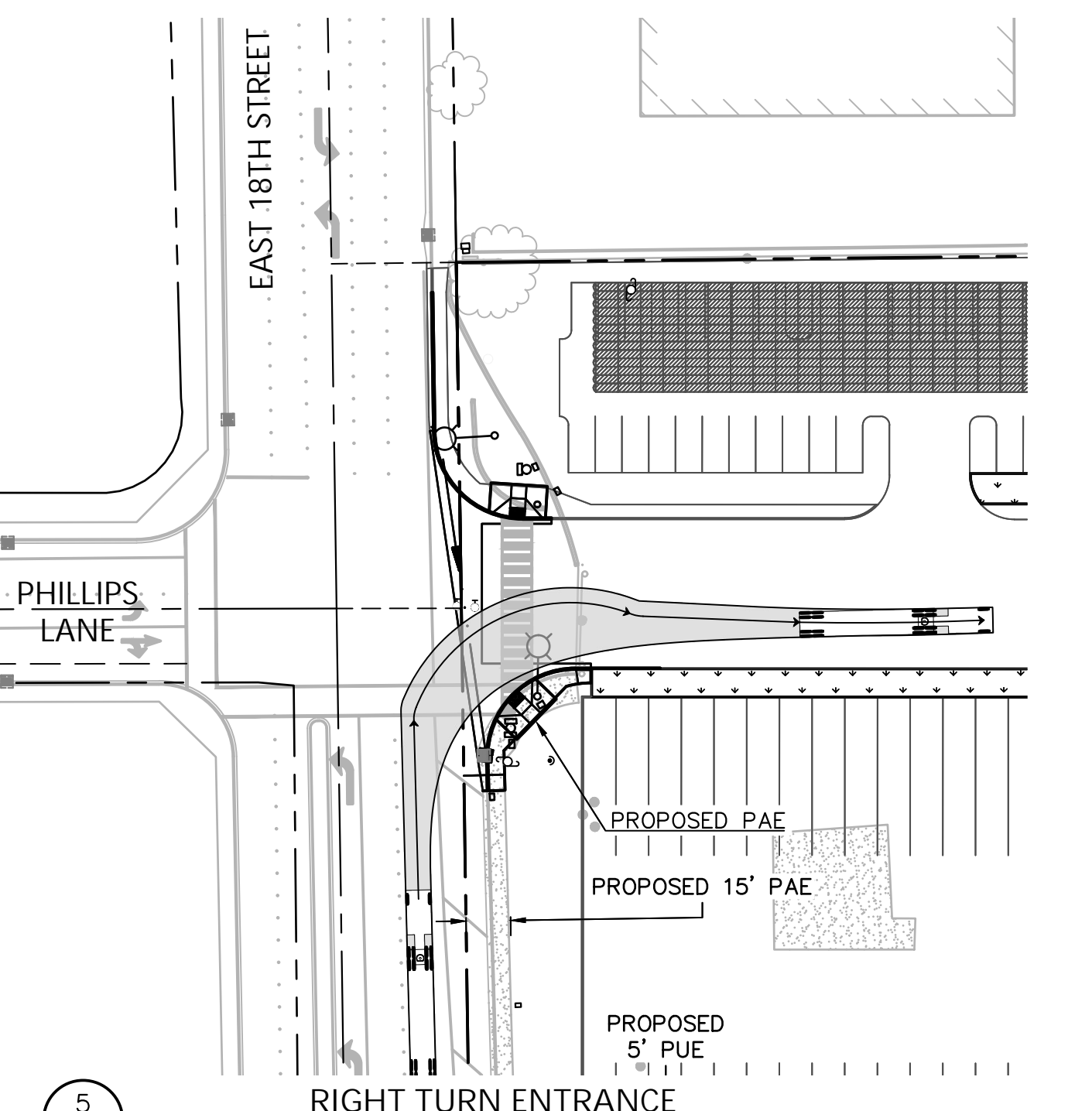
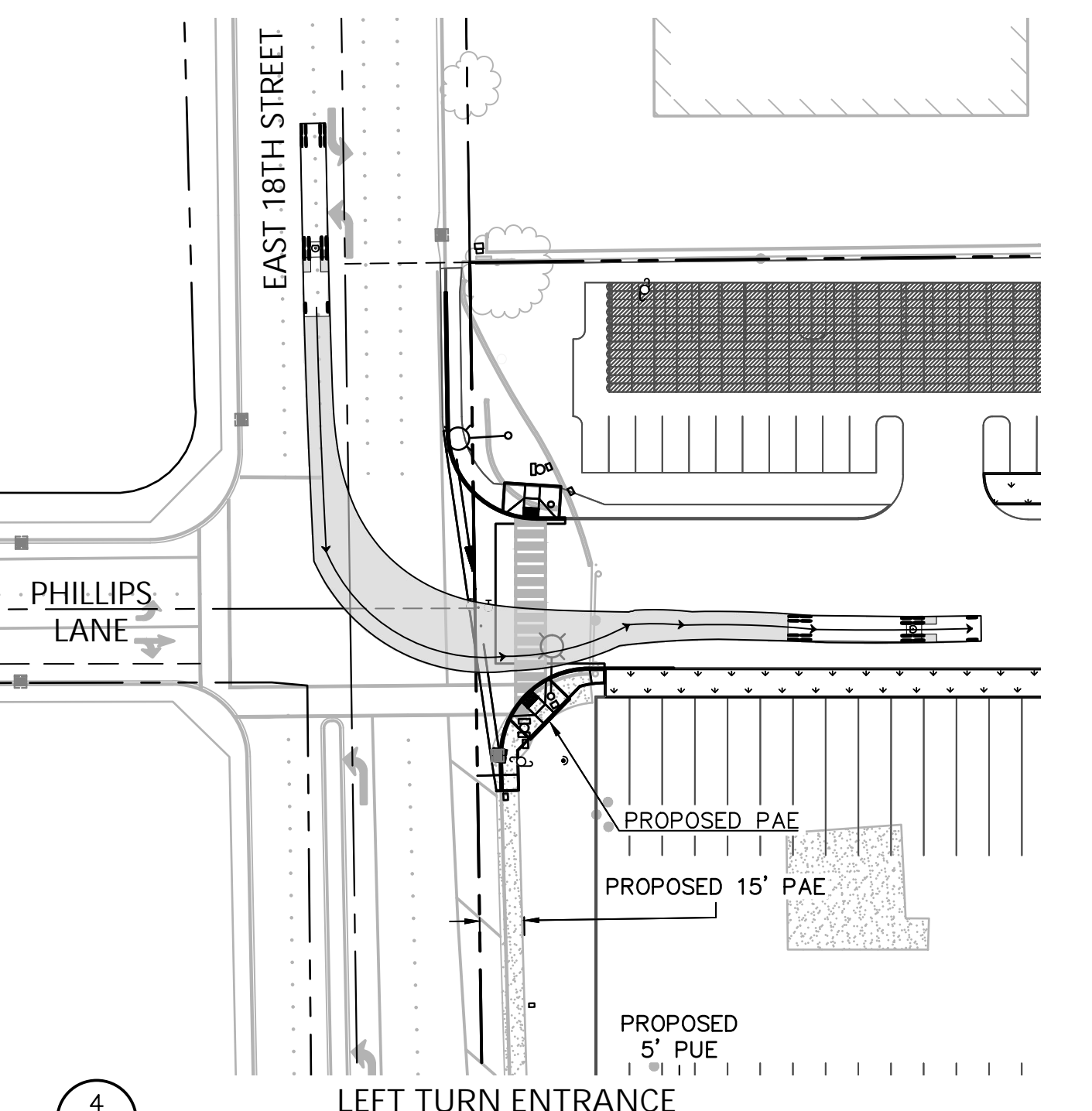
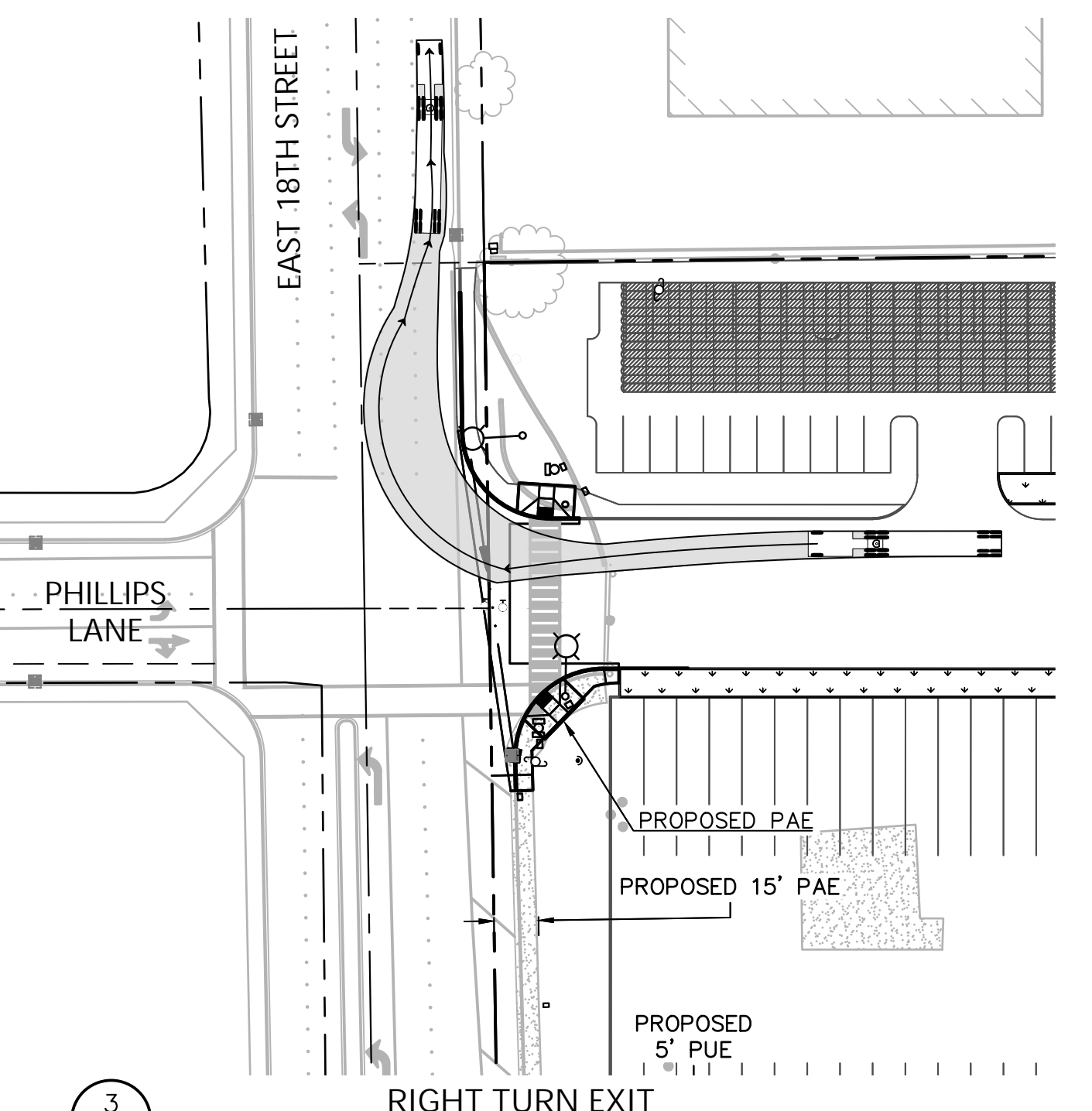
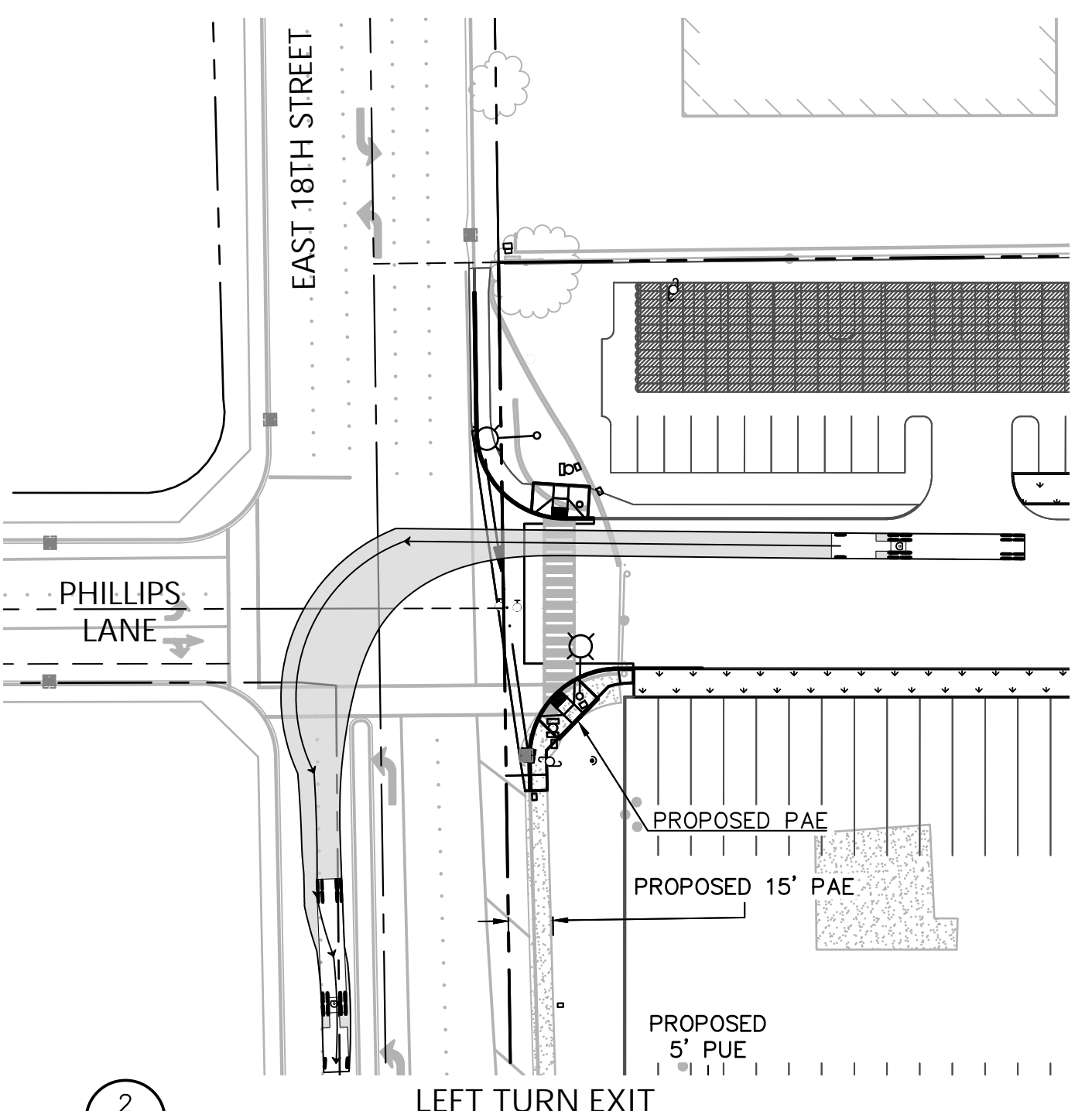
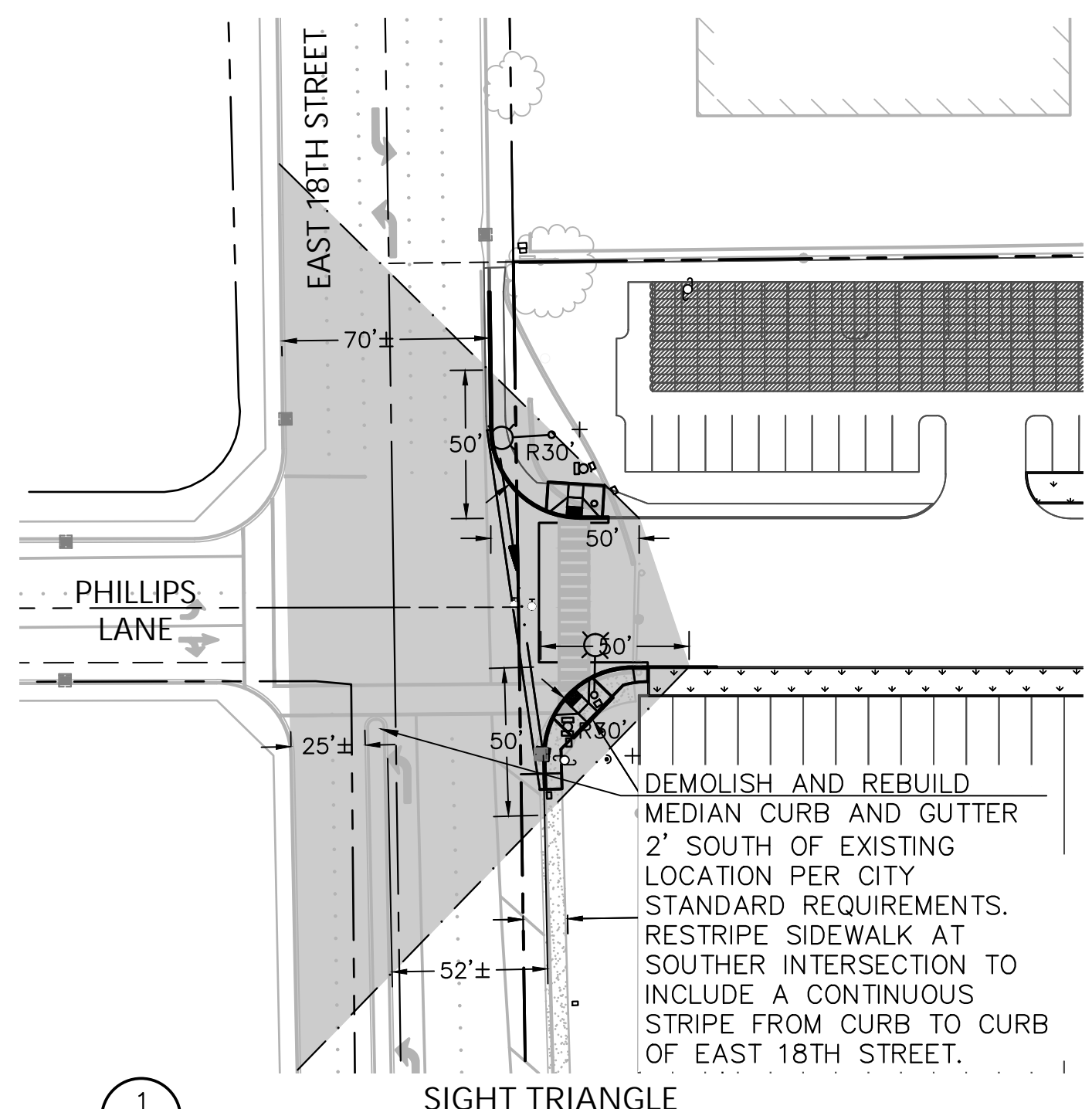
H: 1"=20'  
 V: 1"=4'



KEYMAP  
 NTS

No.	Revisions

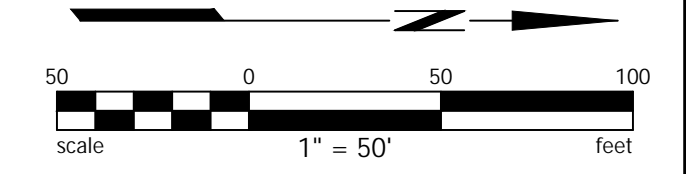
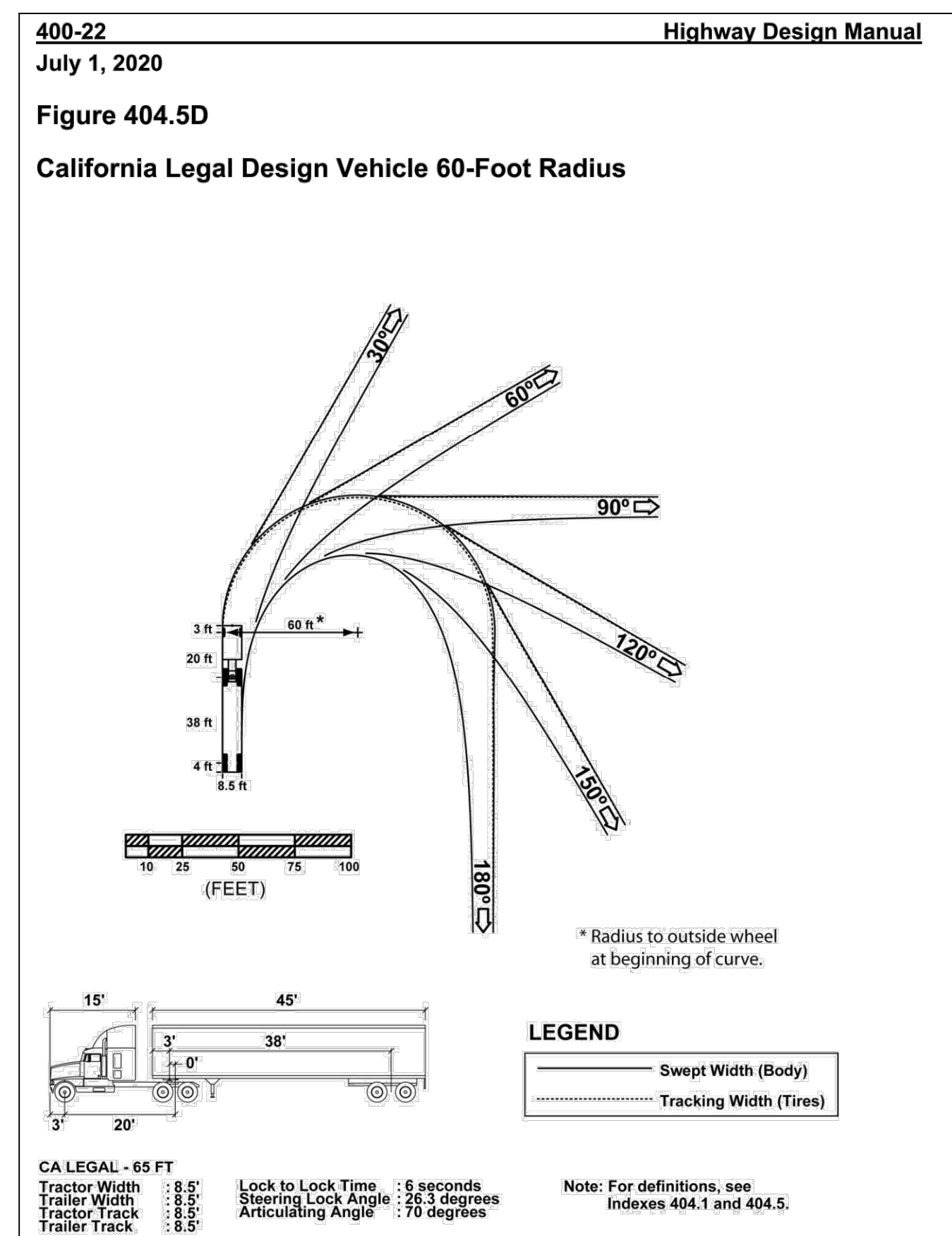




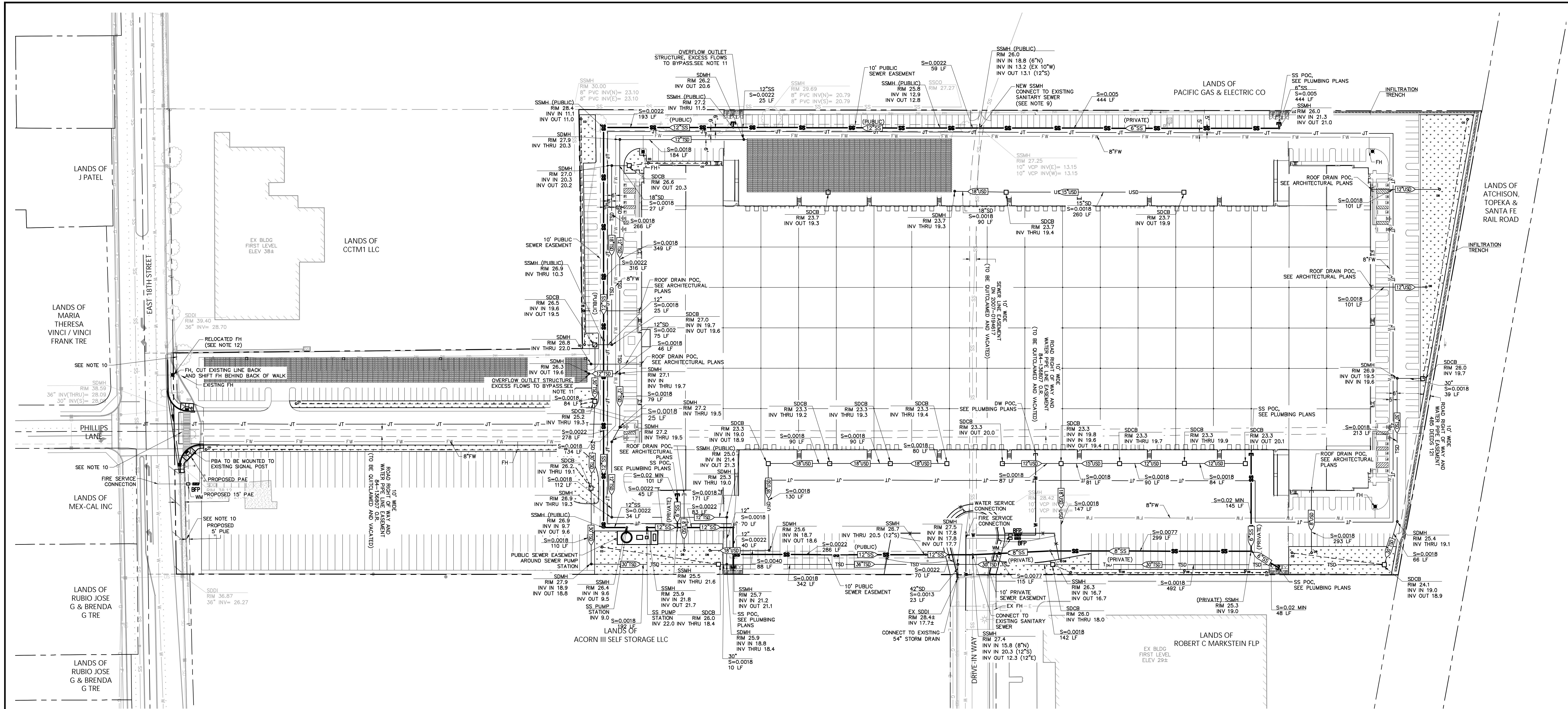
- LEGEND**
- PROPERTY LINE
  - - - EASEMENT
  - CENTER LINE
  - ▲ SIGHT TRIANGLE, SEE NOTE 1

**NOTES**

1. SIGHT TRIANGLES DRAWN PER ANTIOCH GUIDELINES - § 9-5.1101. SITE OBSTRUCTIONS AT INTERSECTIONS.







**LEGEND**

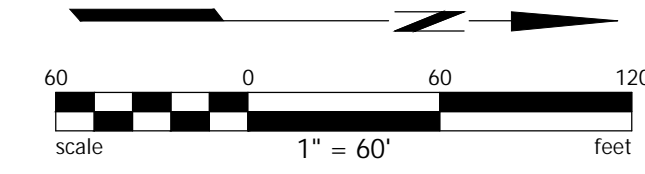
---	PROPERTY LINE
---	EASEMENT
---	CENTER LINE
---	USD PROPOSED UNTREATED STORM DRAIN
---	TSD PROPOSED TREATED STORM DRAIN
---	PROPOSED SANITARY SEWER
---	PROPOSED DOMESTIC WATER
---	PROPOSED FIRE WATER
---	PROPOSED JOINT TRENCH (FOR REFERENCE ONLY)
⊙	STORM DRAIN MANHOLE
□	STORM DRAIN CATCH BASIN
○	DRAINAGE BUBBLER
⊙	SANITARY SEWER MANHOLE
□	WATER METER
⊠	BACKFLOW PREVENTOR
⊠	FIRE HYDRANT
→ USD	UTILITY DIRECTION OF FLOW
▨	STORMWATER CHAMBERS
▨	BIORETENTION FACILITY
▨	INFILTRATION TRENCH

- NOTES**
- EXISTING UTILITIES SHOWN ON THIS PLAN SET ARE DERIVED FROM RECORD DATA AND/OR SURFACE OBSERVATION AND ARE APPROXIMATE ONLY. ACTUAL LOCATION, DEPTH AND SIZE, TOGETHER WITH THE PRESENCE OF ANY ADDITIONAL UTILITY LINES NOT SHOWN ON THIS PLAN SHALL BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION.
  - ALL EXISTING UTILITY BOXES, STRUCTURES, MANHOLES AND VALVES WITHIN THE LIMIT OF WORK SHALL BE ADJUSTED TO FINAL GRADE UNLESS OTHERWISE NOTED.
  - CONTRACTOR SHALL VERIFY EXISTING UTILITY POINTS OF CONNECTION PRIOR TO CONSTRUCTION.
  - CONTRACTOR TO POTHOLE AND FIELD VERIFY ALL UTILITY CROSSINGS.
  - PROPOSED BUILDING IS FOR REFERENCE ONLY. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
  - UTILITY DESIGN IS PRELIMINARY ONLY.
  - DOMESTIC WATER EASEMENT SHALL BE QUITCLAIMED PRIOR TO BUILDING CONSTRUCTION.
  - AFTER SANITARY SEWER RELOCATION, EXISTING SANITARY SEWER EASEMENT SHALL BE QUITCLAIMED PRIOR TO BUILDING CONSTRUCTION.
  - EXISTING SANITARY SEWER SHALL REMAIN IN SERVICE WHILE REROUTED SEWER SYSTEM IS BUILT.
  - DEVELOPER SHALL BE FINANCIALLY RESPONSIBLE FOR FAIR SHARE OF OVERHEAD UNDERGROUNDING ALONG SITE FRONTAGE.
  - DESIGN OF BIORETENTION TREATMENT FACILITIES AND INFILTRATION CHAMBERS ARE PRELIMINARY AND FINAL DESIGN TO BE DETERMINED DURING PERMIT SUBMITTAL.
  - FIRE HYDRANTS TO EXTEND FROM EXISTING LOCATION TO THE BACK OF WALK WHERE EXISTING HYDRANTS CONFLICT WITH PROPOSED IMPROVEMENTS.

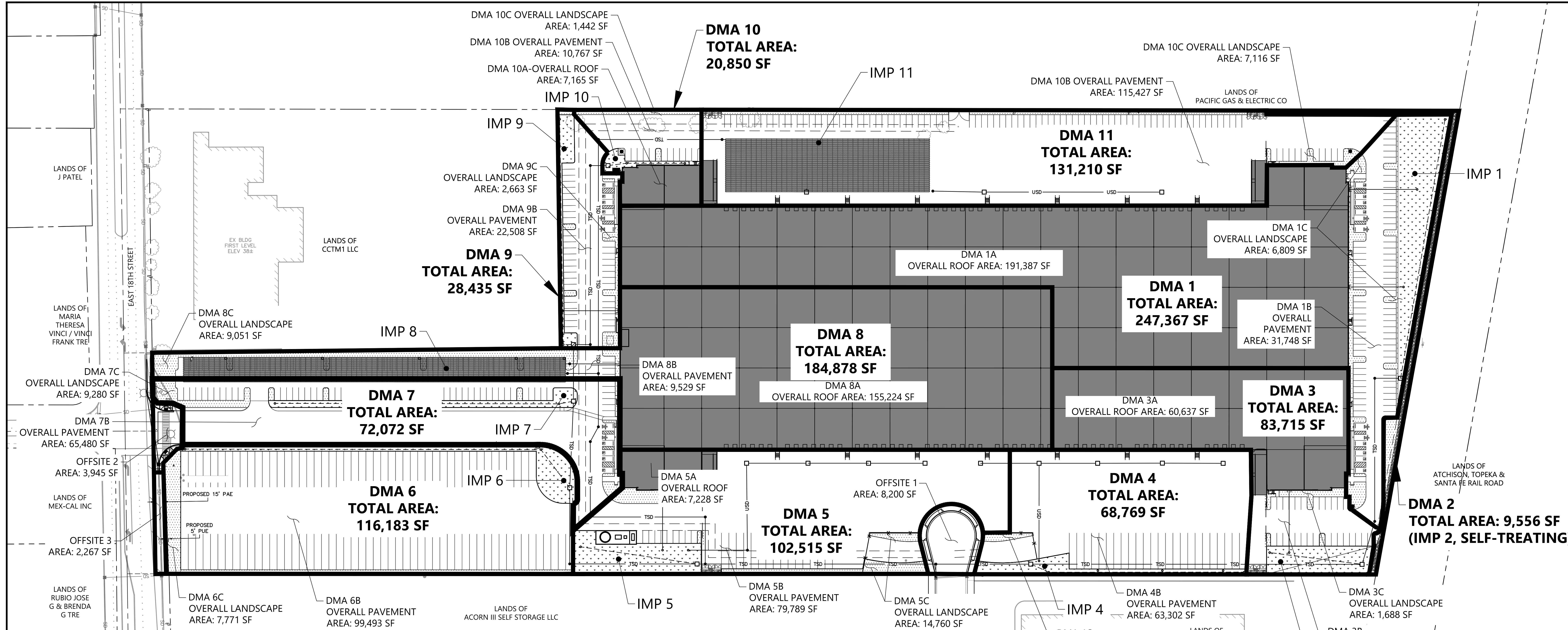
**ABBREVIATIONS**

(N)	NORTH
(S)	SOUTH
(E)	EAST
(W)	WEST
OVH	OVERHEAD UTILITY LINE
PG&E	PACIFIC GAS & ELECTRIC
RCP	REINFORCED CONCRETE PIPE
SS	SANITARY SEWER
SD	STORM DRAIN
TB	TOP OF BOX
TEL	TELECOMMUNICATION
TG	TOP OF GRATE
TV	TELEVISION
TYP	TYPICAL
TSD	TREATED STORM DRAIN
USD	UNTREATED STORM DRAIN
UB	UTILITY BOX
VCP	VITRIFIED CLAY PIPE
W	WATER
WM	WATER METER
WORE OR LESS	
AC	ASPHALT CONCRETE
APN	ASSESSOR'S PARCEL NUMBER
BFP	BACKFLOW PREVENTOR
CB	CATCH BASIN
CO	CLEANOUT
CONC	CONCRETE
DIA	DIAMETER
E	ELECTRIC
(E)	EAST
EP	EDGE OF PAVEMENT
ESMT	EASEMENT
EX	EXISTING
FH	FIRE HYDRANT
FL	FLOWLINE
G	GAS
GM	GAS METER
GYP	GUY POLE
MH	MANHOLE
INV	INVERT
IP	IRON PIPE
JT	JOINT TRENCH

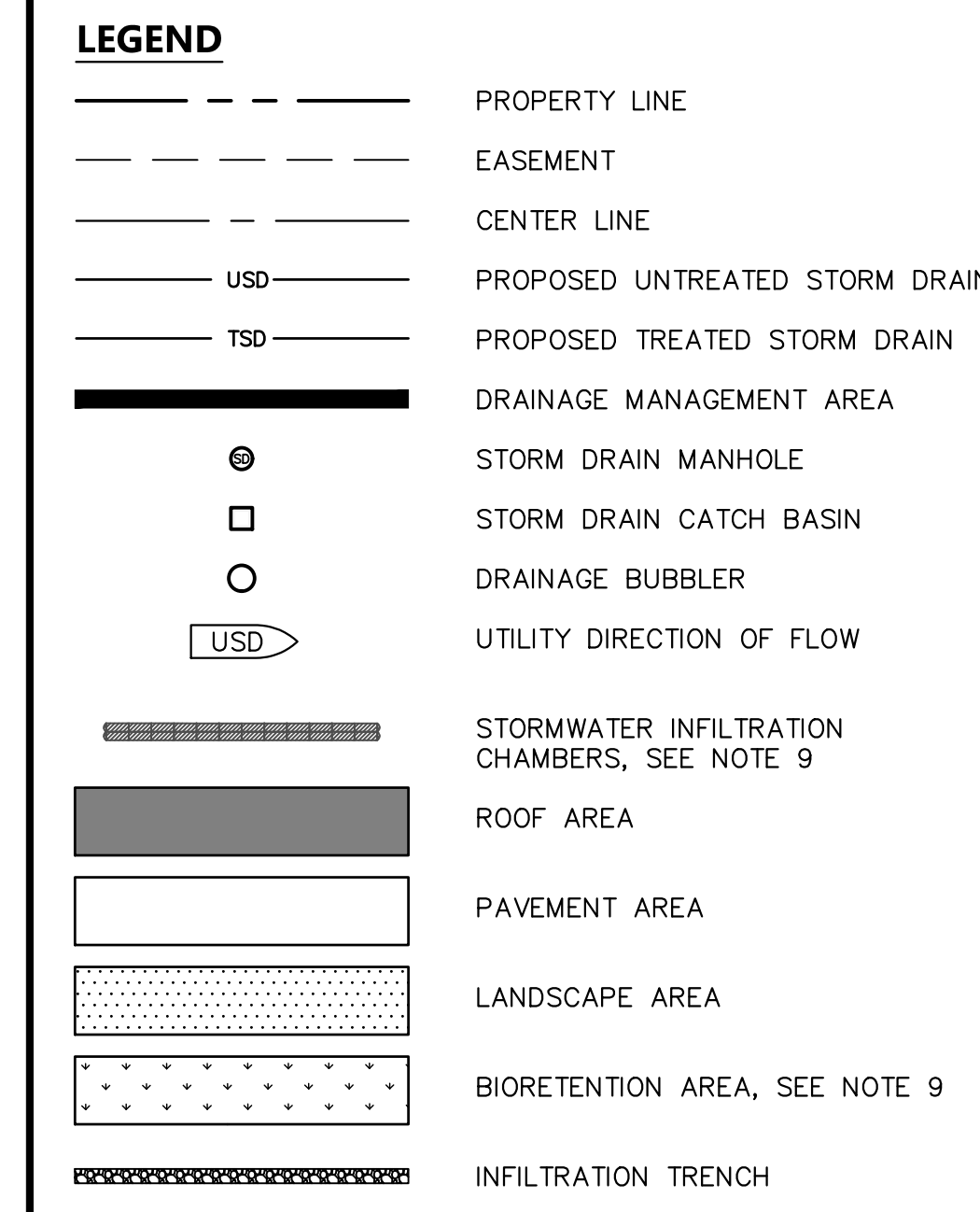
No.	Revisions
1	DATE: 09/20/2022 SCALE: AS SHOWN DESIGNER: AS DRAWN: DBL, MK APPROVED: MS JOB: 18-2022/025
Drawing Number: <b>C3.0</b>	
5 OF 6	







**NOTES**  
 1. PROPOSED BUILDING IS FOR REFERENCE ONLY. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.  
**C.3 STORMWATER MANAGEMENT EXHIBIT NOTES:**  
 1. THIS PROJECT IS REGULATED BY THE MUNICIPAL REGIONAL STORMWATER NPDES PERMIT, ORDER NO. R2-2015-0049 DATED NOVEMBER 19, 2015. CALCULATIONS ARE BASED ON THE CONTRA COSTA CLEAN WATER PROGRAMS "STORMWATER C.3 GUIDEBOOK" 7TH EDITION MAY 17, 2017 (GUIDEBOOK)  
 2. THE PROJECT TOTAL SITE AREA IS 24.8 ACRES (1,079,967 SF) AND THE TOTAL AREA OF LAND DISTURBED IS 24.6 ACRES (1,069,500 SF). SEE NOTE 8.  
 3. THIS PROJECT PROPOSES TO INCREASE IMPERVIOUS SURFACE AREA BY 951,623 SQUARE FEET AND WILL REPLACE 8,200 SQUARE FEET OF EXISTING IMPERVIOUS SURFACE AREA. THE TOTAL PRE-PROJECT IMPERVIOUS SURFACE AREA IS 8,200 SQUARE FEET. THE TOTAL POST-PROJECT IMPERVIOUS SURFACE AREA IS 951,623 SQUARE FEET.  
 4. PROVISION C.3 PROJECT REQUIREMENTS INCLUDE: NEW/REDEVELOPED AREA SUBJECT TO STORMWATER TREATMENT AND FLOW CONTROL.  
 5. COMPLIANCE WITH FLOW CONTROL REQUIREMENTS ARE MET THROUGH: BIORETENTION TREATMENT AND INFILTRATION, INTEGRATED MANAGEMENT PRACTICES PER THE GUIDEBOOK.  
 6. DESIGN CRITERIA  
 6.1. MEAN ANNUAL PRECIPITATION = 13 INCHES PER HOUR CCCPDW MEAN SEASONAL ISOHYETS, FIGURE B-166  
 6.2. SOIL GROUP A  
 6.3. HYDRAULIC DESIGN CRITERIA: 0.2 INCHES PER HOUR RAINFALL INTENSITY  
 6.4. BIORETENTION SOIL LOADING RATE: 5 INCHES PER HOUR  
 6.5. BIORETENTION SOIL MIX PER APPENDIX B OF THE GUIDEBOOK  
 7. THE PROJECT SITE IS DELINEATED INTO 11 DRAINAGE MANAGEMENT AREAS (DMAS) AS SHOWN ON THIS SHEET. DATA OUTPUT FROM THE CONTRA COSTA CLEAN WATER PROGRAM IMP SIZING CALCULATOR IS INCLUDED ON THIS SHEET.  
 8. THE SITE INCLUDES 3 OFFSITE SHEDS  
 8.1. OFFSITE SHED 1 IS A PROPOSED CULDESAC THAT WILL BE WITHIN THE PUBLIC RIGHT OF WAY AND WILL THEREFORE DRAIN OFFSITE.  
 8.2. OFFSITE SHED 2 IS PART OF THE TOTAL DISTURBED AREA BUT WILL CONTINUE TO DRAIN OFFSITE AS IT DOES IN THE EXISTING CONDITIONS.  
 8.3. OFFSITE SHED 3 IS EXISTING SIDEWALK AND ROADWAY THAT WILL REMAIN UNDISTURBED BUT IT WITHIN THE PROJECT PROPERTY BOUNDARY.  
 9. DEPTH OF GROUNDWATER TABLE: ROUGHLY 24'-28", PER GEOTECH REPORT, "PRELIMINARY GEOTECHNICAL EXPLORATION UPDATE FOR ANTIPOCH INDUSTRIAL PARK, ANTIPOCH, CALIFORNIA", CONDUCTED BY ENGeo INCORPORATED, DATED 02/04/2022. 6 ADDITIONAL BORINGS PERFORMED IN AUGUST 2022 INDICATE GROUNDWATER DEPTHS 24'-30" BELOW EXISTING SURFACE.  
 10. DESIGN OF BIORETENTION TREATMENT FACILITIES AND INFILTRATION CHAMBERS ARE PRELIMINARY AND FINAL DESIGN TO DETERMINED DURING PERMIT SUBMITTAL.



PRE-IMPROVEMENT					
PROJECT SITE AREA:	1,079,967	(FT) <sup>2</sup>			
PERVIOUS AREAS:			IMPERVIOUS AREAS:		
DESCRIPTION	AREA	UNITS	DESCRIPTION	AREA	UNITS
UNDEVELOPED/LANDSCAPE	1,071,767	(FT) <sup>2</sup>	RF + PAVED AREAS	8,200	(FT) <sup>2</sup>
TOTAL	1,071,767	(FT) <sup>2</sup>	TOTAL	8,200	(FT) <sup>2</sup>
POST-IMPROVEMENT <sup>1,2,3,8</sup>					
PROJECT SITE AREA:	1,079,967	(FT) <sup>2</sup>	% IMPERVIOUS AREA INCREASE	89%	
PERVIOUS AREAS:			IMPERVIOUS AREAS:		
DESCRIPTION	AREA	UNITS	DESCRIPTION	AREA	UNITS
LANDSCAPE + PERVIOUS PAVEMENT + BIORETENTION AREAS	113,932	(FT) <sup>2</sup>	ROOF + PAVED AREAS	966,035	(FT) <sup>2</sup>
TOTAL	113,932	(FT) <sup>2</sup>	TOTAL	966,035	(FT) <sup>2</sup>

IMP Name: IMP1 (Soil Type: A)											
IMP Type: Bioretention Facility											
Soil Type: A											
DMA Name	DMA Area (sq ft)	Post-Project Surface Type	DMA Area (sq ft)	DMA Runoff Factor	DMA Area (sq ft)	DMA Runoff Factor	IMP Sizing	IMP Sizing	IMP Sizing	Proposed Area or Volume	Proposed Area or Volume
DMA-1A	191,387	Conventional Roof	1,900	1.00	191,387	0.10	19,139	19,139	0.10	19,139	19,139
DMA-1B	31,748	Concrete or Asphalt	1,000	0.85	31,748	0.10	3,175	3,175	0.10	3,175	3,175
DMA-1C	6,809	Landscape	0.10	0.05	681	0.10	68	68	0.10	68	68
<b>Total</b>	<b>229,944</b>		<b>2,900</b>		<b>229,944</b>		<b>22,982</b>	<b>22,982</b>		<b>22,982</b>	<b>22,982</b>
Area: 0.070 0.907 14,217 17,424 Surface Volume: 0.058 0.907 11,780 14,520											

BOUNDARY	WATERSHED	TOTAL AREA	CONVENTIONAL SURFACE (SF)			DRAINS TO	LID TYPE	AREA (ft <sup>2</sup> /ft <sup>2</sup> )		VOLUME V1 (ft <sup>3</sup> /ft <sup>2</sup> )		VOLUME V2 (ft <sup>3</sup> /ft <sup>2</sup> )	
			ROOF	CONC.	LSP			REQUIRED (sf)	PROVIDED (sf)	REQUIRED (sf)	PROVIDED (sf)	REQUIRED (cf)	PROVIDED (cf)
DMA-1A			191,387	-	-								
DMA-1B		247,367	-	31,748	-	IMP 1	BIORETENTION	14,217	17,424	11,780	14,520	N/A	14,520
DMA-1C		-	-	-	6,809			-	-	-	-	-	-
DMA-2		9,560	-	-	-	IMP 2	SELF-TREATING	-	-	-	-	N/A	-
DMA-3A			60,637	-	-								
DMA-3B		83,715	-	14,978	-	IMP 3	BIORETENTION	4,814	6,411	3,989	5,343	N/A	5,343
DMA-3C		-	-	-	1,688			-	-	-	-	-	-
DMA-4A			-	-	-								
DMA-4B		68,769	-	63,302	-	IMP 4	BIORETENTION	4,025	4,752	3,335	3,960	N/A	3,960
DMA-5A			7,228	-	715								
DMA-5B		102,515	-	79,789	-	IMP 5	BIORETENTION	5,566	9,406	4,612	7,839	N/A	7,839
DMA-5C		-	-	-	6,092			-	-	-	-	-	-
DMA-6A			-	-	-								
DMA-6B		116,183	-	99,493	-	IMP 6	BIORETENTION	6,369	8,919	5,277	7,433	N/A	7,433
DMA-6C		-	-	-	7,771			-	-	-	-	-	-
DMA-7A			-	-	-								
DMA-7B		72,072	-	62,700	-	IMP 7	BIORETENTION	4,033	5,055	3,342	4,213	N/A	4,213
DMA-7C		-	-	-	4,317			-	-	-	-	-	-
DMA-8A			155,224	-	-								
DMA-8B		184,878	-	20,603	-	IMP 8	INFILTRATION CHAMBERS*	7,516	11,074	N/A	N/A	19,542	36,461
DMA-8C		-	-	-	9,051			-	-	-	-	-	-
DMA-9A			-	-	-								
DMA-9B		28,435	-	22,508	-	IMP 9	BIORETENTION	1,199	3,265	1,447	2,720	N/A	2,720
DMA-9C		-	-	-	2,663			-	-	-	-	-	-
DMA-10A			7,165	-	-								
DMA-10B		20,850	-	10,767	-	IMP 10	BIORETENTION	1,148	1,475	951	1,229	N/A	1,229
DMA-10C		-	-	-	1,442			-	-	-	-	-	-
DMA-11A			-	-	-								
DMA-11B		131,210	-	124,094	-	IMP 11	INFILTRATION CHAMBERS*	5,707	8,667	N/A	N/A	14,838	30,859
DMA-11C		-	-	-	7,116			-	-	-	-	-	-
<b>OVERALL TOTAL DISTURBED AREA</b>		<b>1,065,555</b>	<b>421,641</b>	<b>529,982</b>	<b>57,225</b>			<b>TOTAL BIO AREA:</b>	<b>56,708</b>				

IMP Name: IMP3 (Soil Type: A)											
IMP Type: Bioretention Facility											
Soil Type: A											
DMA Name	DMA Area (sq ft)	Post-Project Surface Type	DMA Area (sq ft)	DMA Runoff Factor	DMA Area (sq ft)	DMA Runoff Factor	IMP Sizing	IMP Sizing	IMP Sizing	Proposed Area or Volume	Proposed Area or Volume
DMA-3A	60,637	Conventional Roof	1,000	1.00	60,637	0.10	6,064	6,064	0.10	6,064	6,064
DMA-3B	14,978	Concrete or Asphalt	1,000	0.85	14,978	0.10	1,498	1,498	0.10	1,498	1,498
DMA-3C	1,688	Landscape	0.10	0.05	169	0.10	17	17	0.10	17	17
<b>Total</b>	<b>77,303</b>		<b>2,000</b>		<b>77,303</b>		<b>7,579</b>	<b>7,579</b>		<b>7,579</b>	<b>7,579</b>
Area: 0.070 0.907 4,814 6,411 Surface Volume: 0.058 0.907 3,989 5,343											

IMP Name: IMP10 (Soil Type: A)											
IMP Type: Bioretention Facility											
Soil Type: A											
DMA Name	DMA Area (sq ft)	Post-Project Surface Type	DMA Area (sq ft)	DMA Runoff Factor	DMA Area (sq ft)	DMA Runoff Factor	IMP Sizing	IMP Sizing	IMP Sizing	Proposed Area or Volume	Proposed Area or Volume
DMA-10A	7,165	Conventional Roof	1,000	1.00	7,165	0.10	717	717	0.10	717	717
DMA-10B	10,767	Concrete or Asphalt	1,000	0.85	10,767	0.10	1,077	1,077	0.10	1,077	1,077
DMA-10C	1,442	Landscape	0.10	0.05	144	0.10	14	14	0.10	14	14
<b>Total</b>	<b>19,374</b>		<b>2,000</b>		<b>19,374</b>		<b>1,808</b>	<b>1,808</b>		<b>1,808</b>	<b>1,808</b>
Area: 0.070 0.907 1,148 1,475 Surface Volume: 0.058 0.907 901 1,229											

