



# ADDENDUM 1

PROJECT NAME: **MARTIN LUTHER KING PARK**

DATE: 09/21/2016

This Addendum 1 shall be included in and considered part of the solicitation documents for the construction of the Martin Luther King Park Project. Contractor shall be required to sign its acknowledgement of the receipt of this Addendum and submit its signed Addendum 1 Acknowledgement Form (attached hereto) with its bid.

PROJECT NO.: **40-00374**

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## **Formal Invitation for Low Qualified Bid and Contract:**

The Bid Opening date has been extended to **Tuesday, October 4, 2016.**

**(010) Formal Invitation for Low Qualified Bids (IFB)**, Contractor shall substitute and utilize the revised 010 IFB Form, as attached.

Substitute and utilize the revised **“020 Bid Form”** as attached.

Substitute and utilize the revised **“025 Unit Pricing Form”** as attached.

**Note: The Addenda Acknowledgement Form for Addendum 1 is attached hereto. This Addenda Acknowledgement Form must be signed and submitted with Contractor’s bid package.**

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**CITY OF SAN ANTONIO**

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Issued By: **Transportation and Capital Improvements**  
ID NO.: **40-00374-05-03**

Date Issued: **August 31, 2016**

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**(010) LOW QUALIFIED FORMAL INVITATION FOR BIDS (IFB) to CONTRACT  
MARTIN LUTHER KING PARK #40-00374**

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Sealed bids, subject to the Terms and Conditions of this Invitation for Bids and other contract provisions, will be received at the Office of the City Clerk, City Hall, 100 Military Plaza, San Antonio, Tx 78205 until **2:00 P.M. CST on Tuesday, October 4, 2016** (solicitation deadline) and publicly read aloud in **City Council Chambers, 114 W. Commerce, Municipal Plaza Building**. Bids must be submitted in a sealed envelope and clearly marked with the bidder's name, Project Name and ID NO. The City is not responsible for submissions not clearly and appropriately marked. Late submissions will be rejected and returned to bidder. A Non-Mandatory Pre-bid meeting will be held at 114 W. Commerce, San Antonio, TX 78205, 9<sup>th</sup> floor conference room on September 8, 2016 at 10:00 A.M. Deadline for questions is September 15, 2016 at 4.00 P.M.

**This invitation includes the following Contract Documents:**

- |   |   |
|---|---|
| 010 Invitation for Bids and Contract Signature Page   | ■ Subcontractor/Supplier Utilization Plan         |
| 020 Bid Form  | 060 Supplemental Conditions                       |
| 025 Unit Pricing Form                                 | 075 Performance Bond                              |
| 030 Experience & Qualifications                       | 076 Payment Bond                                  |
| 040 Standard Instructions to Respondent               | 081 General Conditions for Construction Contracts |
| 041 Certificate of Interested Parties (TEC Form 1295) | ■ Wage Decision                                   |
| 050.01 SBEDA Guidelines                               |   |

Plans, Specifications and Special Conditions may be purchased at a cost of **\$100.00** per set (tax included) from the office of **Half Associates, Inc**, 300 E. Sonterra Blvd. San Antonio, TX 78258; Phone: (210) 704-1359. No refund will be made for plan sets that are returned. Changes to Plans, Specifications and Special Conditions will be included in an addendum and will be posted on the web at <http://www.sanantonio.gov/purchasing/biddingcontract/opportunities.aspx> along with this solicitation. Bidder understands and agrees that bidder is responsible for obtaining addenda and adhering to all requirements in addenda. City is not responsible for incorrect information obtained through other sources.

The following documents (fully completed and with original signatures) constitute the required information to be submitted as a part of the bid proposal:

- |   |   |
|---|---|
| 010 Invitation for Bids and Contract Signature Page | ■ Bid Bond  |
| 020 Bid Form  | ■ Subcontractor/Supplier Utilization Plan                   |
| 025 Unit Pricing Form                               | ■ Signed Addenda Acknowledgement Forms                      |
| 030 Experience & Qualifications                     | ■ Proof of Form 1295 with Certification Number & Date Filed |

**This is a Qualified Low Bid Solicitation.** It is understood and agreed that the work is to be substantially completed on or before **300** calendar days. This project **does not** include hazardous environmental work. This project requires **1** project sign(s).

**Small Business Economic Development Advocacy (SBEDA) Program Compliance** – Respondents shall meet the subcontracting requirements as stated on 050.01 Form and on the **Subcontractor/Supplier Utilization Plan** posted with this solicitation on the City's website.

**Wage Decision** – Respondent shall meet the prevailing wage rate requirements established for this contract and shall reference the wage decision posted with this solicitation on the City's website.

**The undersigned, by his/her signature, represents that he/she is authorized to bind the bidder to fully comply with Contract Documents for the amount(s) shown on the accompanying bid sheet(s). The work proposed to be done shall be accepted when fully completed and finished to the entire satisfaction of the City. The undersigned certifies all prices contained in this bid have been carefully checked and are submitted as correct and final. The bidder by submitting this bid and signing below, acknowledges that he/she has received & read the entire Bid and Contract document and agrees to be bound by the terms therein, has received all Addenda, and agrees to the terms, conditions, and requirements of the bidder's bid proposal and all documents listed in the tables above and the enabling Ordinance and associated documentation that form the entire Contract upon approval by the City Council.**

Official Name of Company (legal): \_\_\_\_\_

\_\_\_\_\_/\_\_\_\_\_  
Original Signature of Person Authorized to Sign Bid/Contract      Date      Signer's Name: \_\_\_\_\_  
(Please Print or Type)

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# CITY OF SAN ANTONIO

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Project Name: Martin Luther King Park  
ID NO.: 40-00374-05-03

Date Issued: August 31, 2016  
Page 1 of 2

*The estimated construction budget for this contract is \$2,165,000.00*

## 020 BID FORM

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Legal Name of Company (print)

### I. BASE BID

Amount of street/Roadway Construction Base Bid

**Total Amount of Base Bid Insert Amount in Words and Numbers):**

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\$

### II. ALTERNATES

Amount of each Alternates (if applicable) insert in Numbers:

Additive Alternate #1 – The provision and installation of Park Monument “C” including all associated components, appurtenances, and site work.

**Total Amount of Bid for Additive Alternate #1 (Insert Amount in Words and Numbers):**

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\$

Additive Alternate #2 – Construct pavement surface overlay along MLK 1.

**Total Amount of Bid for Additive Alternate #1 (Insert Amount in Words and Numbers):**

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\$

Additive Alternate #3 – Construct pavement surface overlay along MLK 2.

**Total Amount of Bid for Additive Alternate #1 (Insert Amount in Words and Numbers):**

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\$

**II. ALLOWANCES :**

CPS Energy Electrical Service to the project site \_\_\_\_\_ \$ **15,000** \_\_\_\_\_

\_\_\_\_\_  
Person Authorized to Sign Bid/Contract (Print)

\_\_\_\_\_  
Title of Person Signing

\_\_\_\_\_  
Address

\_\_\_\_\_  
Fax No.

\_\_\_\_\_  
City, State and Zip Code

Local Headquarters  
 Local Branch Office  
*(Check one)*

\_\_\_\_\_  
Telephone No.

\_\_\_\_\_  
E-mail Address

Name of the proposed **Project Manager:** \_\_\_\_\_

Name of the proposed **Site Superintendent:** \_\_\_\_\_

CITY OF SAN ANTONIO  
025 UNIT PRICING FORM

PROJECT NAME: Martin Luther King Park  
PROJECT NO. 40-00374

ALT. NO.	ITEM NO.	DESC. CODE	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
				The City only will accept bid pricing to the hundredths. Any pricing extended out to three decimal points will be truncated to two decimal points in the City's favor.					
				BASE BID					
	M1			PERMITS	L.S.	2			
	M2			DEMO AND REMOVAL	L.S.	2			
	M3			ROUGH GRADING / SELECT FILL	L.S.	1			
	M5			PLANT BEDS	L.S.	1			
	M6			CONC FOOTING / FNDNTN / RETAINING WALL	C.Y.	46			
	M7			LIMESTONE PILASTERS	L.S.	1			
	M8			GAL STL COL / BMS TRELLIS & HANDRAILS	L.S.	1			
	M10			METAL SCULPTURE / PLAQUES	L.S.	2			
	M11			SIGNAGE	EA.	66			
	M13			POLE MOUNTED SOLAR W/BATTERY	L.S.	2			
	M14			FLOOD LIGHTING	EA.	4			
	M15			SURFACE MOUNTED LIGHTING	EA.	4			
	M16			GENERAL LIGHTING	L.S.	6			
	M17			PLANTINGS (FLOWERING SHRUBS - TURF RE-ESTAB)	L.S.	1			
	M20			PLANT (A)	L.S.	1			
	M21			LIMESTONE SEATING BLOCKS	L.S.	1			
	100.1			MOBILIZATION	L.S.	1			
	100.2			INSURANCE & BOND	L.S.	1			
	101.1			PREPARING RIGHT-OF-WAY	L.S.	1			
	102.1			OBLITERATING ABANDONED STREET ( < 25,000 S.Y.)	S.Y.	352			
	103.1			REMOVE CONCRETE CURB (< 700 L.F.)	L.F.	417			
	103.3			REMOVE CONCRETE SIDEWALKS & DRIVEWAYS (1,000 S.F. < X < 3,000 S.F.)	S.F.	1038			
	103.4			REMOVE MISCELLANEOUS CONCRETE	S.F.	6264			
	104.1			STREET EXCAVATION (1,000 C.Y. < X < 10,000 C.Y.)	C.Y.	3166			
	105.1			CHANNEL EXCAVATION (150 C.Y. < X < 5,000 C.Y.)	C.Y.	1311			
	107.1			EMBANKMENT (FINAL)(DENS CONT)(TY A)	C.Y.	369			
	107.1			ENBANKMENT (FINAL)(ORD COMP)(TY A)	C.Y.	47			
	108.1			LIME TREATED SUBGRADE (6" COMPACTED DEPTH)	S.Y.	5193			
	108.2			LIME ( < 100 TON.)	TON	91			
	200.1			FLEXIBLE BASE (6.5" COMPACTED DEPTH)	S.Y.	5039			
	202.1			PRIME COAT	GAL	979			
	205.4			HOT MIX ASPHALTIC PAVEMENT, TYPE D (2" COMP. DEPTH) > 5000 S.Y.	S.Y.	4896			
	307.1			CONCRETE STRUCTURE (ABUTMENTS & WINGWALLS)	C.Y.	23			
	308.1			DRILL SHAFTS (24")	L.F.	1184			
	308.1			DRILL SHAFTS (30")	L.F.	12			
	500.1			CONCRETE CURBING ( > 1,000 L.F.)	L.F.	1051			
	502.1			CONCRETE SIDEWALKS (INTEGRAL COLOR) (150 S.Y.< X < 1,000 S.Y.)	S.Y.	531			

CITY OF SAN ANTONIO  
025 UNIT PRICING FORM

PROJECT NAME: Martin Luther King Park  
PROJECT NO. 40-00374

ALT. NO.	ITEM NO.	DESC. CODE	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
	502.1			CONCRETE SIDEWALKS (4 IN) (150 S.Y.< X < 1,000 S.Y.)	S.Y.	286			
	502.1			CONCRETE SIDEWALKS (6 IN) (< 150 S.Y.)	S.Y.	74			
	502.3			SIDEWALK DRAIN	EA	3			
	504.2			CONCRETE DIRECTIONAL ISLAND (INTEGRAL COLOR)	S.Y.	85			
	505.1			CONCRETE RIPRAP (5" THICK) (100 S.Y. < X < 4000 S.Y.)	S.Y.	765			
	507.5			GATES - VEHICULAR	EA	7			
	515.1			TOPSOIL (< 500C.Y.)	C.Y.	768			
	516.1			BERMUDA SODDING (>2,000 S.Y.)	S.Y.	3537			
	520.1			HYDROMULCHING (RESIDENTIAL OR COMMERCIAL)	S.Y.	3323			
	530.1			BARRICADES, SIGNS & TRAFFIC HANDLING	L.S.	1			
	531.3			R1-1 STOP (30") (HIGH INTENSITY)	EA	5			
	531.55			OM-3 TYPE 3 OBJECT MARKER (12"X36") (HIGH INTENSITY)	EA	4			
	531.91			R7-8T RESERVED PARKING (12"X18") (HIGH INTENSITY)	EA	2			
	531.92			W8-19 DEPTH MARKER (12"X72")(HIGH INTENSITY)	EA	2			
	531.93			W8-19aTP FLOOD GAUGE (18"X12")(HIGH INTENSITY)	EA	2			
	531.94			SMALL MONUMENT	EA	1			
	531.95			ORDINANCE SIGN	EA	1			
	531.96			REMOVE & RELOCATE SIGN	EA	5			
	531.97			WALK YOUR BIKE SIGN (WITH GRAPHIC) (12"X18") (HIGH INTENSITY)	EA	3			
	531.98			W8-18 ROAD MAY FLOOD (36"X36")(HIGH INTENSITY)	EA	2			
	531.99			W16-4P NEXT 500 FT (30"X24")(HIGH INTENSITY)	EA	2			
	532.00			R7-8P VAN ACCESSIBLE (PLAQUE) (12"X6") (HIGH INTENSITY)	EA	1			
	535.2			4 INCH WIDE WHITE LINE (< 30,000 LF)	L.F.	541			
	535.7			24 INCH WIDE WHITE LINE (< 1,500)	L.F.	161			
	535.91			ACCESSIBLE PARKING SPACE SYMBOL	EA	2			
	540.1			ROCK FILTER DAMS (INSTALL/REMOVE) (TYPE 2)	L.F.	28			
	540.6			CONSTRUCTION EXITS (INSTALL/REMOVE)	S.Y.	78			
	540.8			SANDBAGS FOR EROSION CONTROL FENCE	L.F.	8			
	540.9			TEMPORARY SEDIMENT CONTROL FENCE	L.F.	3193			
	554.1			EROSION CONTROL MATTING	S.Y.	3323			
	618.1			CONDUIT (2 INCH/PVC SCHEDULE 40)	L.F.	1000			
	618.11			CONDUIT (2 INCH/PVC SCHEDULE 80)	L.F.	40			
	618.12			CONDUIT (RM) (1")	L.F.	840			
	620.1			ELECTRICAL CONDUCTORS (NO. 6)(BARE)	L.F.	500			
	620.2			ELECTRICAL CONDUCTORS (NO. 8)(BARE)	L.F.	500			
	620.4			ELECTRICAL CONDUCTORS (NO. 6)(INSULATED) (XHHW)	L.F.	1000			
	620.5			ELECTRICAL CONDUCTORS (NO. 8)(INSULATED) (XHHW)	L.F.	1000			
	620.6			ELECTRICAL CONDUCTORS (NO. 10)(BARE)	L.F.	840			
	620.7			ELECTRICAL CONDUCTORS (NO. 10)(INSULATED) (XHHW)	L.F.	1680			
	624.5			GROUND BOXES TYPE A (122311) W/ APRON	EA	2			
	628.3			ELC SRV TY A120/240 060 (NS) AL E PS (U)	EA	1			
	801.3			TY IIA TREE PROTECTION	L.F.	3343			

CITY OF SAN ANTONIO  
025 UNIT PRICING FORM

PROJECT NAME: Martin Luther King Park  
PROJECT NO. 40-00374

ALT. NO.	ITEM NO.	DESC. CODE	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
	129302			REMOVABLE BOLLARDS (HOT DIPPED GALVANIZED)	EA	14			
	129303			FIXED BOLLARDS (HOT DIPPED GALVANIZED PAINTED BLACK)	EA	2			
	168 6001			VEGETATIVE WATERING	M.G.	412			
	400 6005			CEM STABIL BKFL	C.Y.	13			
	400 6006			CUT & RESTORING PAV	S.Y.	29			
	403 6006			TEMPORARY SPL SHORING (COFFERDAM)	S.F.	1750			
	420 6025			CL C CONC (BENT)	C.Y.	88			
	420 6037			CL C CONC (COLUMN)	C.Y.	16			
	422 6013			BRIDGE SIDEWALK (INTEGRAL COLOR)	S.F.	4275			
	422 6015			APPROACH SLAB	C.Y.	62			
	422 6019			SLAB SPAN	C.Y.	510			
	442 6008			STR STEEL (MISCELLANEOUS BRIDGE)	LB.	932			
	450 6045			RAIL (TY PR3) (MOD)	L.F.	474			
	459 6009			GABIONS (3' X 3') (GAL)	C.Y.	28			
	508 6001			CONSTRUCTING DETOURS	S.Y.	16			
	529 6015			CONC CURB (TY C1)	L.F.	49			
	529 6016			CONC CURB (TY F1)	L.F.	45			
	543 6002			CABLE BARRIER SYSTEM (TL-4)	L.F.	413			
	610 XXX1			TYPE P1 LUMINAIRE	EA	20			
	610 XXX2			TYPE P2 LUMINAIRE	EA	2			
	SP-1			DIVERSION AND CARE OF WATER	MO.	6			
	SP-2			GATES - VEHICULAR	EA	7			
							COSA BASE BID AMOUNT		
				ADDITIVE ALTERNATIVE NO. 1					
	M1			PERMITS	L.S.	1			
	M2			DEMO AND REMOVAL	L.S.	1			
	M3			ROUGH GRADING / SELECT FILL	L.S.	1			
	M6			CONC FOOTING / FNDNTN / RETAINING WALL	C.Y.	18			
	M9			LIMESTONE / MONUMENT MASONRY WORK	L.S.	1			
	M11			SIGNAGE	EA.	22			
	M12			LIMESTONE CARVING	L.S.	1			
	M13			POLE MOUNTED SOLAR W/BATTERY	L.S.	1			
	M14			FLOOD LIGHTING	EA.	2			
	M17			PLANTINGS (FLOWERING SHRUBS - TURF RE-ESTAB)	L.S.	1			
	M18			PLANT (DROUGHT TOLERANT FLOWERING SHRUBS)	L.S.	1			
	100.1			MOBILIZATION	L.S.	1			
	100.2			INSURANCE & BOND	L.S.	1			
	101.1			PREPARING RIGHT-OF-WAY	L.S.	1			
							COSA ADDITIVE ALTERNATIVE NO. 1 BID AMOUNT		

CITY OF SAN ANTONIO  
025 UNIT PRICING FORM

PROJECT NAME: Martin Luther King Park  
PROJECT NO. 40-00374

ALT. NO.	ITEM NO.	DESC. CODE	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
				ADDITIVE ALTERNATIVE NO. 2					
	100.1			MOBILIZATION	L.S.	1			
	100.2			INSURANCE & BOND	L.S.	1			
	101.1			PREPARING RIGHT-OF-WAY	L.S.	1			
	203.1			TACK COAT	GAL	130			
	205.4			HOT MIX ASPHALTIC PAVEMENT, TYPE D (2" COMP. DEPTH) > 5000 S.Y.	S.Y.	1296			
	515.1			TOPSOIL (< 500C.Y.)	C.Y.	4			
	516.1			BERMUDA SODDING (>2,000 S.Y.)	S.Y.	75			
	540.9			TEMPORARY SEDIMENT CONTROL FENCE	L.F.	682			
	168 6001			VEGETATIVE WATERING	M.G.	5			
	354 6002			PLAN & TEXT ASPH CONC PAV (0" TO 2")	S.Y.	345			
COSA ADDITIVE ALTERNATIVE NO. 2 BID AMOUNT									
				ADDITIVE ALTERNATIVE NO. 3					
	100.1			MOBILIZATION	L.S.	1			
	100.2			INSURANCE & BOND	L.S.	1			
	101.1			PREPARING RIGHT-OF-WAY	L.S.	1			
	203.1			TACK COAT	GAL	96			
	205.4			HOT MIX ASPHALTIC PAVEMENT, TYPE D (2" COMP. DEPTH) > 5000 S.Y.	S.Y.	957			
	515.1			TOPSOIL (< 500C.Y.)	C.Y.	6			
	516.1			BERMUDA SODDING (>2,000 S.Y.)	S.Y.	90			
	540.9			TEMPORARY SEDIMENT CONTROL FENCE	L.F.	452			
	168 6001			VEGETATIVE WATERING	M.G.	6			
	354 6002			PLAN & TEXT ASPH CONC PAV (0" TO 2")	S.Y.	285			
COSA ADDITIVE ALTERNATIVE NO. 3 BID AMOUNT									

\_\_\_\_\_ certifies that the unit prices shown on this complete computer print-out for all of the bid items and the alternates contained in this proposal are the unit prices intended and that its bid will be tabulated using these unit prices and no other information from this print-out.

\_\_\_\_\_ Acknowledged and agrees that the total bid amount shown will be read as its total bid and further agrees that the official total bid amount will be determined by multiplying the unit bid prices shown in this print-out by the respective estimated quantities shown in the proposal and then totaling all of the extended amounts. \_\_\_\_\_ agrees to the terms, conditions, and requirements of the bidder's bid proposal.

Signed: \_\_\_\_\_ Date: \_\_\_\_\_

Title: \_\_\_\_\_

**ADDENDUM NO. 1**

**CITY OF SAN ANTONIO  
TRANSPORTATION & CAPITAL IMPROVEMENTS**

**PROJECT NAME:  
MARTIN LUTHER KING PARK**

**DATE: SEPTEMBER 20, 2016**



**ADDENDUM NO. 1**

This addendum should be included in and be considered part of the plans and specifications for the name of the project. The contractor shall be required to sign an acknowledgement of the receipt of this addendum and submit with their bid. Where provisions of the following supplementary data differ from those of the original Construction Documents, the Addendum shall govern and take precedence.

**TCI PROJECT NO.: 40-00374**

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**CHANGES TO BID DOCUMENTS:**

1. Substitute and utilize the attached revised construction drawings:
  - a. Sheet 1 "COVER SHEET"
    - i. Added Incidental Construction Roadway Length
    - ii. Added Incidental Construction Limits to Location Map
    - iii. Updated Construction Set Date
  - b. Sheet 2 "INDEX OF SHEETS"
    - i. Added Sheet 9A "ROADWAY TYPICAL SECTIONS – ADDITIVE ALTERNATIVES"
    - ii. Added Sheet 21A "TRAFFIC CONTROL PLAN – TYPICAL SECTIONS – ADDITIVE ALTERNATIVES NO. 2 & NO. 3"
    - iii. Added Sheet 28A "TRAFFIC CONTROL PLAN – PHASE III"
    - iv. Added Sheet 28B "TRAFFIC CONTROL PLAN – PHASE IV"
    - v. Added Sheet 43A "SHEET INDEX LAYOUT" Sheet 2 of 2
    - vi. Revised sheet title for Sheet 52 "SITE LAYOUT (MONUMENT C)"
    - vii. Added Sheet 52A "ADDITIVE ALTERNATIVE NO. 2"
    - viii. Added Sheet 52B "ADDITIVE ALTERNATIVE NO. 3"
  - c. Sheet 3 "PROJECT LAYOUT"
    - i. Added Incidental Construction Limits
    - ii. Added Notes No. 3 and No. 4
  - d. Sheet 9A "ROADWAY TYPICAL SECTIONS – ADDITIVE ALTERNATIVES NO. 2 & NO. 3"
    - i. Added Sheet 9A "ROADWAY TYPICAL SECTIONS – ADDITIVE ALTERNATIVES"
  - e. Sheet 10 "GENERAL NOTES"
    - i. Updated General Note No. 20
  - f. Sheet 13 "SUMMARY OF QUANTITIES (ROADWAY)"
    - i. Added quantities for Additive Alternatives No. 2 and No. 3 Sheets
    - ii. Added Item No. 203.1 "TACK COAT" and updated quantity

- iii. Updated quantity for Item No. 205.4 “HOT MIX ASPHALTIC PAVEMENT, TYPE D (2” COMP. DEPTH)(>5000 S.Y.)”
  - iv. Added TxDOT Item No. 354 6002 “PLAN & TEXT ASPH CONC PAV (0” TO 2”)” and updated quantity
- g. Sheet 16 “SUMMARY OF QUANTITIES (SWPPP & TREE PRESERVATION)”
  - i. Added quantities for Additive Alternatives No. 2 and No. 3 Sheets
  - ii. Updated quantity for Item No. 515.1 “TOPSOIL (>500 C.Y.)
  - iii. Updated quantity for Item No. 516.1 “BERMUDA SODDING (>2,000 S.Y.)
  - iv. Updated quantity for Item No. 540.9 “TEMPORARY SEDIMENT CONTROL FENCE”
  - v. Updated quantity for TxDOT Item No. 168 6001 “VEGETATIVE WATERING”
  - vi. Added topsoil reference note
- h. Sheet 17 “SUMMARY OF QUANTITIES (SIGN AND PVMNT MARKINGS)”
  - i. Added Item No. 532.00 “R7-8P VAN ACCESSIBLE (PLAQUE) (12”X6”)(HIGH INTENSITY)” and updated quantity
  - ii. Updated quantity for Item No. 535.2 “4 INCH WIDE WHITE LINE (<30,000 LF)”
- i. Sheet 20 “TRAFFIC CONTROL PLAN – NARRATIVE AND GENERAL NOTES”
  - i. Added phases for “PAVEMENT SURFACE REHABILITATION (ADDITIVE ALTERNATIVES NO. 2 AND NO. 3)”
- j. Sheet 21A “TRAFFIC CONTROL PLAN – TYPICAL SECTIONS – ADDITIVE ALTERNATIVES NO. 2 & NO. 3”
  - i. Added sheet 21A “TRAFFIC CONTROL PLAN – TYPICAL SECTIONS – ADDITIVE ALTERNATIVES NO. 2 & NO. 3”
- k. Sheet 28A “TRAFFIC CONTROL PLAN – PHASE III”
  - i. Added sheet 28A “TRAFFIC CONTROL PLAN – PHASE III”
- l. Sheet 28B “TRAFFIC CONTROL PLAN – PHASE IV”
  - i. Added sheet 28B “TRAFFIC CONTROL PLAN – PHASE IV”
- m. Sheets 38 – 40 “HORIZONTAL DATA CONTROL SHEET”
  - i. Added horizontal chain extension for MLK 2 centerline and reformatted all sheets
- n. Sheet 43A “SHEET INDEX LAYOUT” Sheet 2 of 2
  - i. Added Sheet 43A “SHEET INDEX LAYOUT” Sheet 2 of 2
- o. Sheet 44 “ROADWAY PLAN & PROFILE MLK 1 STA 10+00.00 TO 14+20.00”
  - i. Revised accessible parking spaces configuration
  - ii. Revised plan note No. 3
- p. Sheet 51 “SITE LAYOUT (MONUMENT A)”
  - i. Removed sidewalk tie-in cross slope notations
  - ii. Revised plan note No. 6
- q. Sheet 52 “SITE LAYOUT (MONUMENT C)”
  - i. Revised sheet title
  - ii. Revised Monument identification from “B” to “C”
  - iii. Revised plan note No. 6
- r. Sheet 52A “ADDITIVE ALTERNATIVE NO. 2 – MLK 1 STA 6+17.98 TO 10+00.00”
  - i. Added Sheet 52A “ADDITIVE ALTERNATIVE NO. 2 – MLK 1 STA 6+17.98 TO 10+00.00”
- s. Sheet 52B “ADDITIVE ALTERNATIVE NO. 3 – MLK 2 STA 13+50.72 TO 17+28.64”
  - i. Added Sheet 52B “ADDITIVE ALTERNATIVE NO. 3 – MLK 1 STA 13+50.72 TO 17+28.64”
- t. Sheet 67 “DRAINAGE AREA MAP”
  - i. Added 25-YR and 100-YR rainfall intensities

- ii. Updated Flow Q for 5-YR, 25-YR AND 100-YR.
  - u. Sheet 68 “HYDROLOGIC COMPUTATIONS (INTERNAL DRAINAGE)”
    - i. Revised calculations to correspond with updates made to “DRAINAGE AREA MAP” rainfall intensities and flows
  - v. Sheet 99 “SIGNING AND PAVEMENT MARKINGS MLK 1 STA 10+00.00 TO 18+40.00”
    - i. Revised accessible parking spaces configuration
    - ii. Revised accessible parking signage to add “Van Accessible” signage
    - iii. Updated plan note No. 4
    - iv. Added plan note No. 5
  - w. Sheet 100 “SIGNING AND PAVEMENT MARKINGS MLK 1 STA 18+40.00 TO 23+66.27”
    - i. Updated plan note No. 4
    - ii. Added plan note No. 5
  - x. Sheet 107 “MLK PARK – MONUMENT “B””
    - i. Relocated solar panel and pole with battery
  - y. Sheet 110 “MLK PARK – MONUMENT “B” ELECT LTG & SOLAR PWR”
    - i. Relocated solar panel and pole with battery
2. Substitute and utilize the revised “List of Governing Specifications, Special Provisions and Special Specifications”
    - a. Revised the list of City of San Antonio Standard Specifications to include Item 203, “Tack Coat” (Page 1 of 3)
    - b. Revised the list of Texas Department of Transportation Standard Specifications to include Item 354, “Planing and Texturing Pavement” (Page 2 of 3)
  3. Substitute and utilize the revised “FORM (010) LOW QUALIFIED FORMAL INVITATION FOR BIDS”
    - a. Revised Bid Opening Date from September 27, 2016 to October 4, 2016 at 2:00 P.M.
  4. Substitute and utilize the revised “FORM 020 BID FORM”
    - a. Add ADDITIVE ALTERNATIVES NO. 2 & NO. 3
  5. Substitute and utilize the revised “FORM 025 UNIT PRICING FORM”
    - a. Add Item 100.1 MOBILIZATION
    - b. Add Item 100.2 INSURANCE AND BOND
    - c. Add Item 101.1 PREPARING RIGHT-OF-WAY
    - d. Add Item 532.00 R7-8 VAN ACCESSIBLE (PLAQUE) (12”X6”)(HIGH INTENSITY)
    - e. Revise Quantity for Item 535.2 – 4 INCH WIDE WHITE LINE (< 30,000 LF)
    - f. Add ADDITIVE ALTERNATIVES NO. 2 & NO. 3 and associated bid items
  6. Questions Regarding Bid Documents:
    - a. **Question 1:** Will a list of plan holders be published with the bid documents?
      - i. Question 1 Response: The current list of plan holders will be published with Addendum No. 1.
    - b. **Question 2:** Can a pay item for Mobilization be added?
      - i. Question 2 Response: Item 100.1 MOBILIZATION will be included. The 025 Unit Pricing Form has been revised to include this bid item and is posted as an attachment to Addendum No. 1.
    - c. **Question 3:** Can a pay item for Barricades be added?

- i. Question 3 Response: Barricades will be paid for under Item 530.1 BARRICADES, SIGNS & TRAFFIC HANDLING. This Item is already included in the 025 UNIT PRICING FORM.
- d. **Question 4:** Can a pay item for Insurance and Bonding be added?
  - i. Question 4 Response: Item 100.2 INSURANCE & BONDING will be included. The 025 Unit Pricing Form has been revised to include this bid items and is posted as an attachment to Addendum No. 1.
- e. **Question 5:** Can a pay item for Preparing Right-of-Way be added?
  - i. Question 5 Response: Item 101.1 PREPARING RIGHT-OF-WAY will be included. The 025 Unit Pricing Form has been revised to include this bid item and is posted as an attachment to Addendum No. 1.
- f. **Question 6:** Will the city provide a Geotechnical report for the project?
  - i. Question 6 Response: The Geotechnical report for this project will be made available on the City's website, along with other applicable bid documents.
- g. **Question 7:** In respect to note 20 on sheet 10, will a pay item be added for the 60 day maintenance of seed/hpترم locations after engineer's acceptance?
  - i. Question 7 Response: A pay item will not be added for this work. Note 20 on Sheet 10 will be revised to state that this work will not be paid for directly but will be considered subsidiary to pertinent bid items.
- h. **Question 8:** Is there any anticipated soil contamination in the park?
  - i. Question 8 Response: Soil contamination is not anticipated in the park. The City's soil testing results were negative for contaminants. The contractor will be responsible for abiding by the City's Soil Relocation Policy.
- i. **Question 9:** Will any permits be required for the proposed construction?
  - i. Question 9 Response: The contractor will be responsible for obtaining the electrical, sign, and site clearing permits. Please note that an approved sign contractor must obtain the sign permit and construct the entryway monuments in accordance with the City's sign ordinance.
- j. **Question 10:** Are soils to be hauled off site?
  - i. Question 10 Response: Disposing of soil on site will not be permitted. Soils must be hauled off site in accordance with the City's Soil Relocation Policy.
- k. **Question 11:** Does this project have federal funding?
  - i. Question 11 Response: This project does not have federal funding.
- l. **Question 12:** Who will perform quality assurance testing for COSA?
  - i. Question 12 Response: Terracon will perform quality assurance testing for COSA.
- m. **Question 13:** Is there a Park schedule available.
  - i. Question 13 Response: A park schedule is not available. The park hours are posted at the site. The contractor will be responsible for working around park activities.
- n. **Question 14:** Will the contractor be responsible for providing a field office?
  - i. Question 14 Response: The contractor will be responsible for providing a Field Office that conforms to COSA Item 526 FIELD OFFICE.
- o. **Question 15:** Will the contractor be required to erect chain link fence around the perimeter of the construction yard?
  - i. Question 15 Response: The contractor will be required to erect chain link fence around the perimeter of the construction yard in accordance with Item 526 FIELD OFFICE.
- p. **Question 16:** Does the Contractor need to obtain the services of a biologist for this project?

- i. Question 16 Response: The contractor will not be required to obtain the services of a biologist for this project. COSA will handle the environmental services. The Contractor shall coordinate with COSA in regard to environmental matters.
- q. **Question 17:** An issue was discovered between the printed plans purchased from the office of Halff Associates, Inc. and the electronic pdf version that was provided via CD from the office of Halff Associates, Inc. The hard copy plans that were provided were sealed, signed & dated August 26, 2016 while the electronic pdf version provided via CD was dated August 1, 2016 and had a preliminary seal attached to the plans sheets. The electronic pdf version that was provided via CD was a different version of the plans in which the bid quantities listed in the project quantity summaries did not match the hard copy version.
  - i. Question 17 Response: The issue between the hard copy plans that were purchased from the office of Halff Associates, Inc. and the electronic pdf version provided via CD was confirmed. The electronic pdf version provided via CD was an older version of the plans from a preliminary submittal. The bid quantities listed in the project summaries of the hard copy plans dated August 26, 2016 are correct and match the quantities listed in the 025 Unit Pricing Form provided on the City's website. The electronic pdf versions of the plans that were provided to the various plan rooms are the current version and thus are the appropriate document for bidding purposes.



# CITY OF SAN ANTONIO DEPARTMENT OF TRANSPORTATION & CAPITAL IMPROVEMENTS MARTIN LUTHER KING PARK

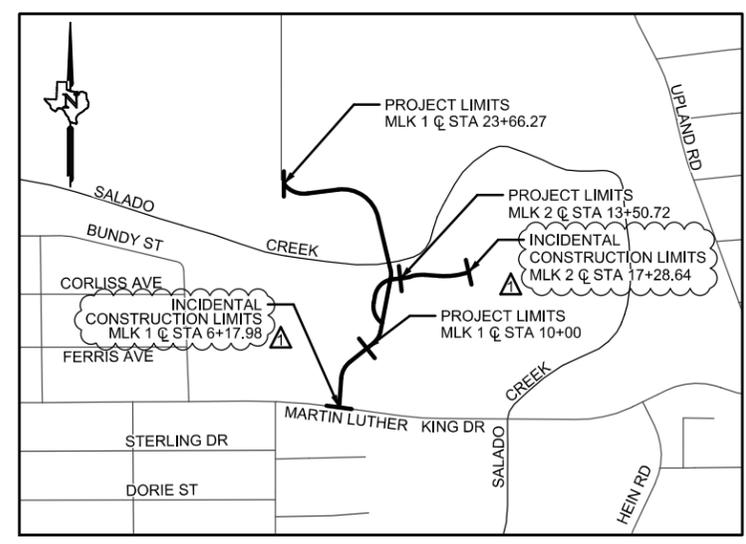
PROJECT NO. 40-00374  
HALFF ASSOCIATES, INC. AVO: 29666A

LIMITS: FROM 400 FT NORTHEAST OF MARTIN LUTHER KING DR TO  
APPROX 2,374 FT SOUTHWEST OF NOBLEWOOD DR

EXISTING SPEED = DESIGN SPEED = 20 MPH  
ROAD DESIGN SPEED = 20 MPH

ROADWAY LENGTH = 1491.99 FT (0.28 MILES)  
BRIDGE LENGTH = 225 FT (0.04 MILES)  
TOTAL LENGTH OF PROJECT = 1716.99 FT (0.33 MILES)  
BRIDGE, DRAINAGE AND STREET RECONSTRUCTION

INCIDENTAL CONSTRUCTION ROADWAY LENGTH = 759.94 FT (0.14 MILES)



NOT TO SCALE  
SEPTEMBER 20, 2016



CITY OF SAN ANTONIO  
**TRANSPORTATION & CAPITAL IMPROVEMENTS**  
THROUGH INNOVATION AND DEDICATION, WE BUILD AND MAINTAIN SAN ANTONIO'S INFRASTRUCTURE



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300 E. SONTERRA BLVD., STE. 230 SAN ANTONIO, TEXAS 78258. TBPE FIRM #F-312.

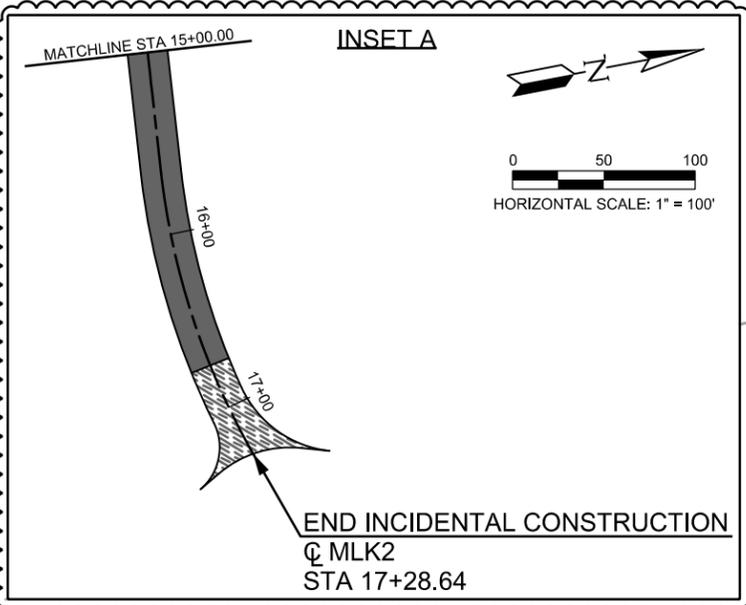
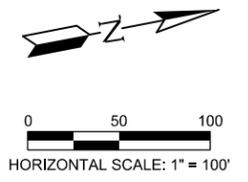
**HALFF**  
TBPE FIRM REGISTRATION #312  
300 EAST SONTERRA BLVD., SUITE 230  
SAN ANTONIO, TEXAS 78258-3991  
TEL (210) 798-1895  
FAX (210) 798-1896



**SECONDARY CONTROL**

CONTROL POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
SC #104	13698520.615	2153560.758	607.901'	SET 1/2" IRON ROD WITH CAP "TRAV POINT"
SC #105	13698812.201	2153613.033	607.923'	SET 1/2" IRON ROD WITH CAP "TRAV POINT"
SC #106	13699060.724	2153874.971	601.165'	SET 1/2" IRON ROD WITH CAP "TRAV POINT"
SC #107	13699923.112	2153269.157	606.375'	SET 1/2" IRON ROD WITH CAP "TRAV POINT"
SC #108	13699802.896	2153022.349	607.782'	SET 1/2" IRON ROD WITH CAP "TRAV POINT"
SC #109	13699359.003	2153071.444	603.104'	SET 1/2" IRON ROD WITH CAP "TRAV POINT"

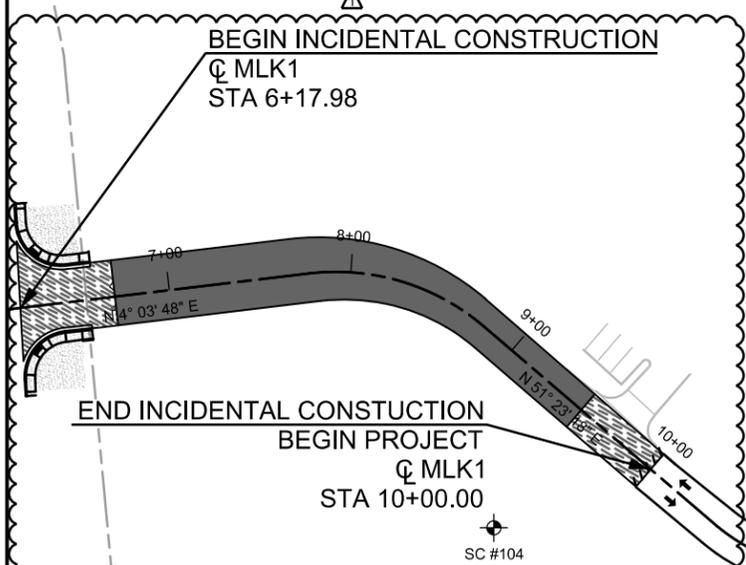
ADDENDUM 1 (09-20-2016) - ADDED INCIDENTAL CONSTRUCTION LIMITS AND NOTES NO. 3 AND NO. 4



MARTIN LUTHER KING MIDDLE SCHOOL SUBDIVISION  
LOT 22  
BLOCK 8  
N.C.B. 10685  
(VOL. 9526, PG. 165 D.P.R.)

WHEATLEY HEIGHTS SPORTS PARK-NORTH  
CITY OF SAN ANTONIO  
LOT 1, N.C.B. 10677  
(80.948 ACRES)  
(VOL. 9621, PG. 115 O.P.R.)

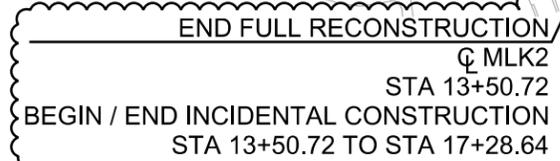
- NOTES:**
- CONTRACTOR SHALL REFER TO HORIZONTAL DATA CONTROL SHEETS FOR ROADWAY AND DITCH HORIZONTAL CONTROL.
  - COORDINATES SHOWN HEREON ARE TEXAS STATE PLANE SOUTH CENTRAL ZONE 4204 AS ESTABLISHED BY GPS FROM WESTERN DATA SYSTEM'S RTK COOPERATIVE NETWORK STATION "SOEA-G". CONVERGENCE ANGLE AT "SOEA-G" IS +00 DEGREES 11 MINUTES 11.80 SECONDS AS CALCULATED BY CORPSCON 6.0.1. SURFACE VALUES MAY BE DERIVED BY MULTIPLYING GRID COORDINATES BY THE SCALE FACTOR PUBLISHED FOR CDS/MUERY SERVICES PROJECT 110099 AND NAVD 88 VERTICAL DATUM.
  - INCIDENTAL CONSTRUCTION ON MLK1 INCLUDED IN BID AS ADDITIVE ALTERNATIVE NO. 2.
  - INCIDENTAL CONSTRUCTION ON MLK2 INCLUDED IN BID AS ADDITIVE ALTERNATIVE NO. 3.



UNPLATTED CITY OF SAN ANTONIO  
115.712 ACRES  
(VOL. 6757, PGS. 97-100 O.P.R.)

UNPLATTED CITY OF SAN ANTONIO  
115.712 ACRES  
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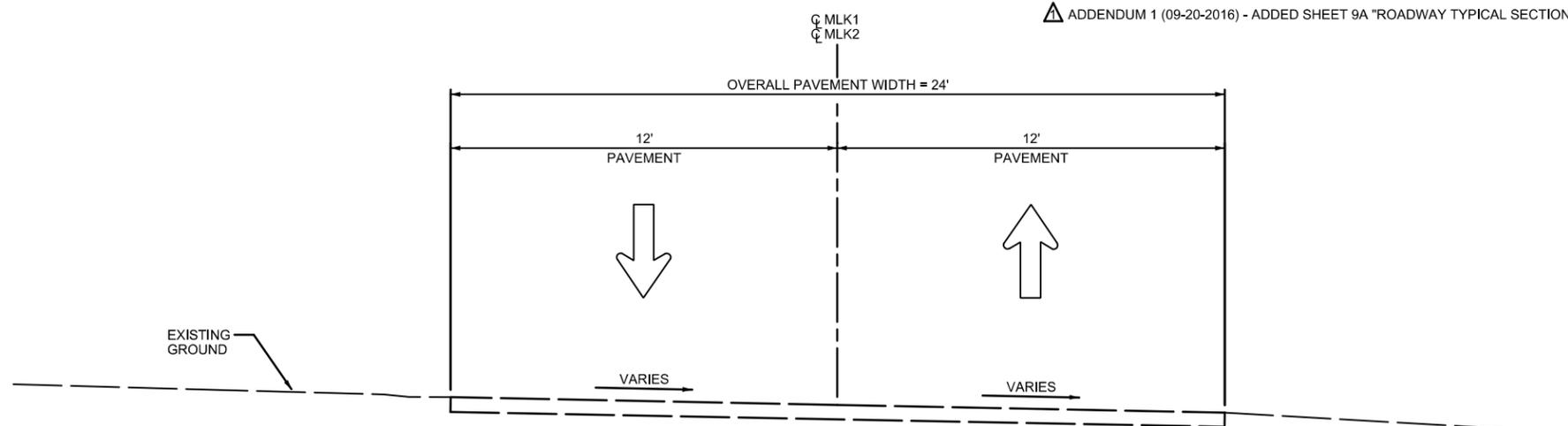
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NO.	DATE	DESCRIPTION	DWG	CHK
REVISIONS				
TBPE FIRM REGISTRATION #312 300 EAST SONTERRA BLVD., SUITE 230 SAN ANTONIO, TEXAS 78258-3991 TEL (210) 798-1895 FAX (210) 798-1896				
<b>CITY OF SAN ANTONIO</b> DEPARTMENT OF TRANSPORTATION & CAPITAL IMPROVEMENTS MARTIN LUTHER KING PARK <b>PROJECT LAYOUT</b>				
SHEET 1 OF 1				
PROJECT No. 40-00374		DATE: SEPT 2016		
DRWN BY: CC	DSGN BY: MGC	CHKD BY: JC	SHEET No. 3	

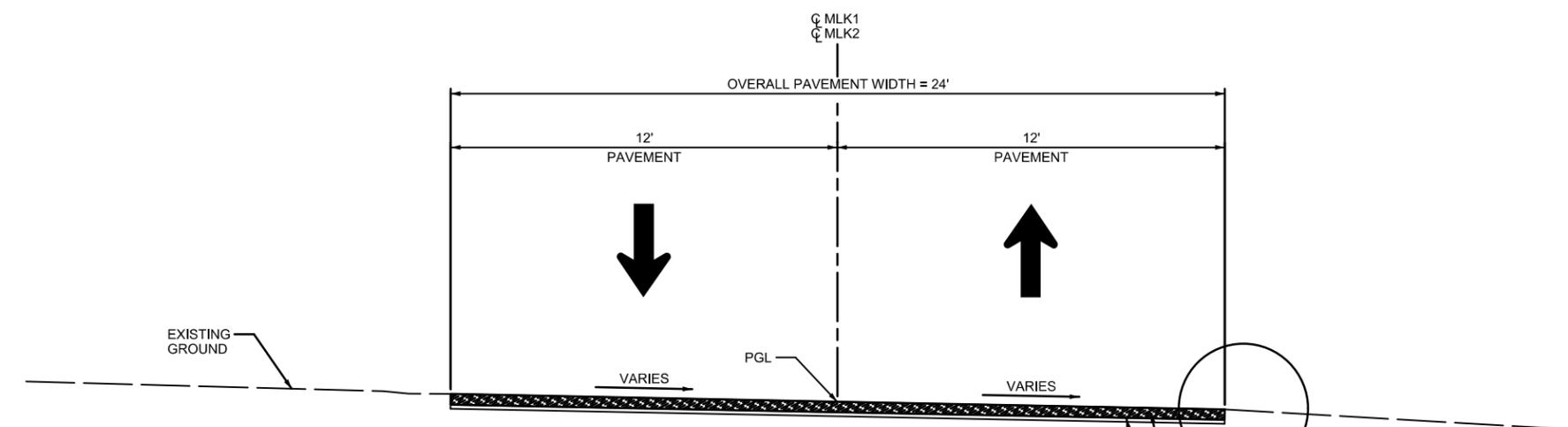
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PROPOSED PAVEMENT SECTIONS

- ① 2" SURFACE HMAC TYPE D
- ② TACK COAT

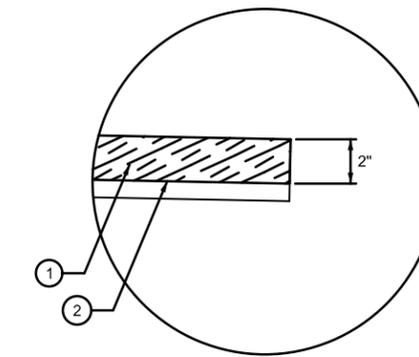


MLK 1 & 2  
EXISTING ROADWAY  
NTS

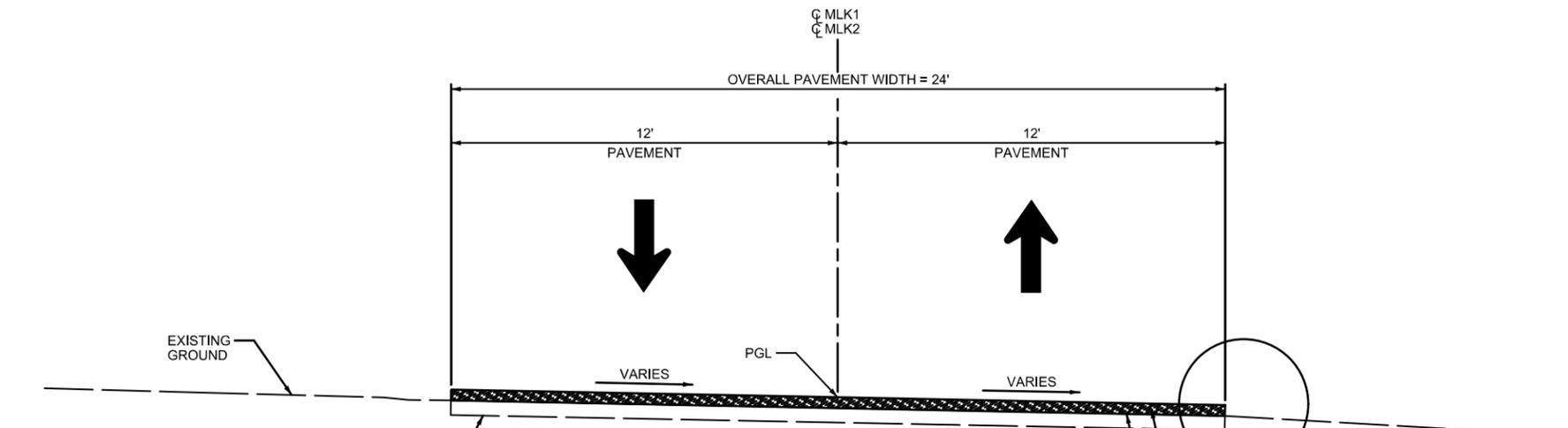


(ADDITIVE ALTERNATIVES NO. 2 & NO. 3)  
MLK 1 & 2 (PLANE AND OVERLAY AREA)

PROPOSED ROADWAY  
(MLK 1 STA 6+17.98 TO MLK 1 STA 6+70.00)  
(MLK 1 STA 9+50.00 TO MLK 1 STA 10+00.00)  
(MLK 2 STA 13+50.72 TO MLK 2 STA 14+00.00)  
(MLK 2 STA 16+75.00 TO MLK 2 STA 17+28.64)  
NTS



DETAIL "A"  
NTS



(ADDITIVE ALTERNATIVES NO. 2 & NO. 3)  
MLK 1 & 2 (OVERLAY AREA)

PROPOSED ROADWAY  
(MLK 1 STA 6+70.00 TO MLK 1 STA 9+50.00)  
(MLK 2 STA 14+00.00 TO MLK 2 STA 16+75.00)  
NTS



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NO.	DATE	DESCRIPTION	DWG	CHK
REVISIONS				



TBPE FIRM REGISTRATION #312  
300 EAST SONTERRA BLVD., SUITE 230  
SAN ANTONIO, TEXAS 78258-3991  
TEL (210) 798-1895  
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CITY OF SAN ANTONIO  
DEPARTMENT OF TRANSPORTATION & CAPITAL IMPROVEMENTS

MARTIN LUTHER KING PARK  
ROADWAY TYPICAL SECTIONS  
ADDITIVE ALTERNATIVES  
NO. 2 & NO. 3

PROJECT No. 40-00374	DATE: SEPT 2016
DRWN BY: CC	DSGN BY: MGC
CHKD BY: JC	SHEET No. 9A

**GENERAL NOTES**

- ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF SAN ANTONIO STANDARD SPECIFICATIONS FOR CONSTRUCTION JUNE 2008, OR LATEST.
- NO EXTRA PAYMENT SHALL BE ALLOWED FOR WORK CALLED FOR ON THE PLANS, BUT NOT INCLUDED IN THE BID PROPOSAL. THIS INCIDENTAL WORK WILL BE REQUIRED AND SHALL BE INCLUDED IN THE PAY ITEM TO WHICH IT RELATES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING TO ITS ORIGINAL OR BETTER CONDITION ANY DAMAGE DONE TO EXISTING FENCES, CONCRETE ISLANDS, STREET PAVING, CURBS, SHRUBS, BUSHES OR DRIVEWAYS. (NO SEPARATE PAY ITEM)
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO SEE THAT ALL SIGNS AND BARRICADES ARE PROPERLY INSTALLED AND MAINTAINED. ALL LOCATIONS AND DISTANCES WILL BE DECIDED UPON IN THE FIELD BY THE CONTRACTOR, USING THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES". THE CITY'S CONSTRUCTION INSPECTOR AND TRAFFIC ENGINEERING REPRESENTATIVE WILL ONLY BE RESPONSIBLE TO INSPECT BARRICADES AND SIGNS. IF, IN THE OPINION OF THE TRAFFIC ENGINEERING REPRESENTATIVE AND THE CONSTRUCTION INSPECTOR, THE BARRICADES AND SIGNS DO NOT CONFORM TO ESTABLISHED STANDARDS OR ARE INCORRECTLY PLACED OR ARE INSUFFICIENT IN QUANTITY TO PROTECT THE GENERAL PUBLIC, THE CONSTRUCTION INSPECTOR SHALL HAVE THE OPTION TO STOP OPERATIONS UNTIL SUCH TIME AS THE CONDITIONS ARE CORRECTED.
- IF THE NEED ARISES, ADDITIONAL BARRICADES AND DIRECTIONAL DEVICES MAY BE ORDERED BY THE TRAFFIC ENGINEERING REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE.
- DUE TO FEDERAL REGULATIONS TITLE 49, PART 192.171 C.P.S. MUST MAINTAIN ACCESS TO GAS VALVES AT ALL TIMES. THE CONTRACTOR MUST PROTECT AND WORK AROUND ANY GAS VALVES THAT ARE IN THE PROJECT AREA.
- CONTRACTOR SHALL NOTIFY THE CITY INSPECTOR TWENTY FOUR (24) HOURS PRIOR TO BACKFILL OF ANY UTILITY TRENCHES TO SCHEDULE FOR DENSITY TEST AS REQUIRED.
- CONTRACTOR SHALL PRESERVE ALL CONSTRUCTION STAKES, MARKS, ETC. IF ANY ARE DESTROYED OR REMOVED BY THE CONTRACTOR OR HIS EMPLOYEES, THEY SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION TO DETERMINE THE LOCATION OF EXISTING UTILITIES. CONTRACTOR SHALL NOTIFY THE FOLLOWING AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO EXCAVATION OPERATION:

SAN ANTONIO WATER SYSTEM (SAWS)	233-2010
BEXAR METROPOLITAN WATER DISTRICT (BEXAR MET)	354-6538 / 357-5741
COSA DRAINAGE	207-8052
COSA SIGNAL OPERATIONS	207-7720 / 207-7765
TEXAS STATE WIDE ONE CALL LOCATOR	1-800-344-8377
- CITY PUBLIC SERVICE ENERGY	800-870-1006
- TIME WARNER	800-892-2253
- A T & T	210-832-8700
- MCI/VERIZON	877-297-7816

- THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES INDICATED ON THE PLANS ARE TAKEN FROM AVAILABLE RECORDS AND ARE NOT GUARANTEED, BUT SHALL BE INVESTIGATED AND VERIFIED BY THE CONTRACTOR BEFORE STARTING WORK. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY DAMAGE TO AND FOR THE MAINTENANCE AND PROTECTION OF THE EXISTING UTILITIES EVEN IF THEY ARE NOT SHOWN ON THE PLANS. LOCATION AND DEPTH OF EXISTING UTILITIES SHOWN HERE ARE APPROXIMATE ONLY. ACTUAL LOCATIONS AND DEPTHS MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION AND HE SHALL BE RESPONSIBLE FOR PROTECTION OF SAME DURING CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING OPERATION OF ALL EXISTING UTILITIES AFFECTED BY PROPOSED CONSTRUCTION.
- THE CONTRACTOR SHALL VERIFY ABANDONED UTILITIES HAVE BEEN DEACTIVATED PRIOR TO START CONSTRUCTION.
- ALL WASTE MATERIAL SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE HIS SOLE RESPONSIBILITY TO DISPOSE OF THIS MATERIAL OFF THE LIMITS OF THE PROJECT. NO WASTE MATERIAL SHALL BE PLACED IN EXISTING LOWS THAT WILL BLOCK OR ALTER FLOW LIMITS OF EXISTING ARTIFICIAL OR NATURAL DRAINAGE. THE CONTRACTOR SHALL NOTIFY THE CITY WHERE WASTE IS TAKEN.
- THE CONTRACTOR SHALL NOT PLACE ANY WASTE MATERIAL IN THE 100-YEAR FLOOD PLAIN WITHOUT FIRST OBTAINING AN APPROVED FLOOD PLAIN DEVELOPMENT PERMIT.
- THE CONTRACTOR SHALL MAINTAIN ALL ADJOINING STREETS AND TRAVELED ROUTES FREE FROM SPILLED AND / OR TRACKED CONSTRUCTION MATERIALS AND / OR DEBRIS.
- IF THE CONTRACTOR ENCOUNTERS ANY ARCHAEOLOGICAL DEPOSITS DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR MUST STOP EXCAVATION IMMEDIATELY, CONTACT THE CITY INSPECTOR, AND CALL THE CITY HISTORIC PRESERVATION OFFICE AT 207-7306 OR 207-3327 FOR AN ARCHAEOLOGICAL INVESTIGATION. THE CONTRACTOR CANNOT BEGIN EXCAVATION AGAIN WITHOUT WRITTEN PERMISSION FROM THE CITY.  
IF MORE THAN THREE (3) DAYS ARE REQUIRED FOR INVESTIGATION (NOT INCLUDING HOLIDAY AND WEEKENDS) AND IF THE CONTRACTOR IS UNABLE TO WORK IN OTHER AREAS, THEN THE CONTRACTOR WILL BE ALLOWED TO NEGOTIATE FOR ADDITIONAL CONSTRUCTION TIME UPON WRITTEN REQUEST WITHIN TEN (10) DAYS AFTER THE FIRST NOTICE TO THE CITY OF ARCHAEOLOGICAL INVESTIGATION FOR EACH EVENT.  
IF THE TIME REQUIRED FOR INVESTIGATION IS LESS THAN OR EQUAL TO THREE (3) DAYS FOR EACH EVENT, CONTRACTOR DURATION WILL NOT BE EXTENDED. ANY GRADING WITHIN PARK PROPERTY WILL REQUIRE COORDINATION WITH ARCHAEOLOGY.
- IF SUSPECTED CONTAMINATION IS ENCOUNTERED DURING CONSTRUCTION OPERATIONS, C.O.S.A. SHALL BE NOTIFIED IMMEDIATELY WHEN CONTAMINATED SOILS AND / OR GROUNDWATER ARE ENCOUNTERED AT LOCATIONS NOT IDENTIFIED IN THE PLANS. THE NOTIFICATION SHOULD INCLUDE THE STATION NUMBER, TYPE OF CONTAMINATED MEDIA, EVIDENCE OF CONTAMINATION AND MEASURES TAKEN TO CONTAIN THE CONTAMINATED MEDIA AND PREVENT PUBLIC ACCESS. THE CONTAMINATED SOIL AND / OR GROUNDWATER SHALL NOT BE REMOVED FROM THE LOCATION WITHOUT PRIOR C.O.S.A. APPROVAL.  
THE CONTRACTOR MUST STOP THE EXCAVATION IMMEDIATELY AND CONTACT THE C.O.S.A. INSPECTOR. THE CONTRACTOR CANNOT BEGIN EXCAVATION ACTIVITIES WITHOUT WRITTEN PERMISSION FROM THE CITY.
- CONTRACTOR SHALL PERFORM WORK SIX (6) DAYS EACH WEEK, MONDAY THROUGH SATURDAY, FROM SUNRISE TO SUNDOWN, UNLESS OTHERWISE DIRECTED BY THE CITY.
- TRANSPORTATION & CAPITAL IMPROVEMENTS (TCI) ROUTINELY MOVES SOIL AS PART OF THE MANY STREET, DRAINAGE, PARK AND BUILDING PROJECTS IF MANAGES ANNUALLY. PRIOR TO ANY EXCAVATION, THE SOIL IS TESTED BY PRIVATE, LICENSED PROFESSIONALS AND IS COMPARED TO TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) STANDARDS FOR APPROPRIATE REUSE OR DISPOSITION. REFER TO CITY OF SAN ANTONIO CAPITAL PROJECT SOIL RELOCATION POLICY AND COMMUNICATION PLAN LOCATED AT WWW.SANANTONIO.GOV/TCI/PROJECTS/SOILRELOCATION.

20. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN ALL SEED AND HPTRM AREAS FOR A PERIOD OF 60 DAYS AFTER ENGINEER'S ACCEPTANCE. MAINTENANCE SHALL CONSIST OF WATERING AND WEEDING, REPAIR OF ALL EROSION AND ANY RESEEDING AS NECESSARY TO ESTABLISH A UNIFORM STAND OF THE SPECIFIED GRASSES. A MINIMUM OF 70% OF THE AREA SEED SHALL BE COVERED WITH NO BARE OR DEAD SPOTS GREATER THAN 1 SQ. M. (10 SQ. FT.). THIS WORK SHALL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED SUBSIDIARY TO PERTINENT BID ITEMS.

**GENERAL NOTES (CON'T)**

- CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROLLING AND DIVERTING WATER FROM WORK AREAS AT OR BELOW THE TOP OF BANK OF SALADO CREEK. CONTRACTOR SHALL REFER TO SPECIAL SPECIFICATION 1 - DIVERSION AND CARE OF WATER FOR ADDITIONAL INFORMATION.
- CONSTRUCTION ASSOCIATED WITH VEGETATION REMOVAL SHALL OCCUR ONLY OUTSIDE THE MIGRATORY BIRD NESTING SEASON. THE MIGRATORY BIRD BREEDING SEASON TAKES PLACE MARCH 1 - AUGUST 30 THEREFORE BRUSH CLEARING OPERATIONS SHALL TAKE PLACE PRIOR TO MARCH 1, 2017.

**TREE PROTECTION AND PRESERVATION GENERAL NOTES**

- NO UTILITY OR STREET EXCAVATION WORK SHALL BEGIN IN AREAS WHERE TREE PRESERVATION AND TREATMENT MEASURES HAVE NOT BEEN COMPLETED AND APPROVED.
- TREE PROTECTION FENCING SHALL BE REQUIRED. TREE PROTECTION FENCING SHALL BE INSTALLED, MAINTAINED AND REPAIRED BY THE CONTRACTOR DURING SITE CONSTRUCTION. DURING CONSTRUCTION ACTIVITY, AT LEAST A SIX-INCH LAYER OF COARSE MULCH SHALL BE PLACED AND MAINTAINED OVER THE ROOT PROTECTION ZONE (NO SEPARATE PAY ITEM)
- THE CONTRACTOR SHALL AVOID CUTTING ROOTS LARGER THAN ONE INCH IN DIAMETER WHEN EXCAVATING NEAR EXISTING TREES. EXCAVATION IN THE VICINITY OF TREES SHALL PROCEED WITH CAUTION. THE CONTRACTOR SHALL CONTACT THE CITY INSPECTOR FOR GUIDANCE.
- ROOTS WILL BE CUT WITH A ROCK SAW OR BY HAND, NOT BY AN EXCAVATOR OR OTHER ROAD CONSTRUCTION EQUIPMENT.
- ALL CURB AND SIDEWALK WORK SHALL USE ALTERNATIVE CONSTRUCTION METHODS TO MINIMIZE EXTENSIVE ROOT DAMAGE TO TREES (REFER TO DETAILS)
- EXPOSED ROOTS SHALL BE COVERED AT THE END OF THE DAY USING TECHNIQUES SUCH AS COVERING WITH SOIL, MULCH, OR WET BURLAP.
- NO EQUIPMENT, VEHICLES OR MATERIALS SHALL OPERATE OR BE STORED WITHIN THE ROOT PROTECTION ZONE OF ANY TREE NEAR THE PROJECT. ROOT PROTECTION ZONE IS 1 FOOT OF RADIUS PER INCH OF TREE'S DIAMETER. A 10-INCH DIAMETER TREE WOULD HAVE A 10 FOOT RADIUS ROOT PROTECTION ZONE AROUND THE TREE. ROOTS OR BRANCHES IN CONFLICT WITH THE CONSTRUCTION SHALL BE CUT CLEANLY ACCORDING TO PROPER PRUNING METHODS. OAK WOUNDS SHALL BE PAINTED OVER WITHIN 30 MINUTES TO PREVENT OAK WILT.
- SAPLINGS, SHRUBS OR BUSHES TO BE CLEARED FROM THE PROTECTED ROOT ZONE AREA OF A LARGE TREE SHALL BE REMOVED BY HAND AS DESIGNATED BY THE INSPECTOR.
- NO WIRES, NAILS OR OTHER MATERIAL MAY BE ATTACHED TO PROTECTED TREES.
- TREES, TREE LIMBS, BUSHES AND SHRUBS LOCATED IN THE CITY STREET OR ALLEY RIGHT-OF-WAY OR PERMANENT EASEMENTS WHICH INTERFERE WITH PROPOSED CONSTRUCTION ACTIVITIES SHALL BE PROPERLY PRUNED FOLLOWING THE ANSI A-300 STANDARDS FOR PRUNING. ALL TREE PRUNING SHALL BE COMPLETED BY A CITY OF SAN ANTONIO TREE MAINTENANCE LICENSED CONTRACTOR (ARTICLE 21-171, CITY CODE) ONLY AFTER APPROVAL FROM THE CAPITAL PROJECTS MANAGEMENT THROUGH THE INSPECTOR.
- NO EXCESSIVE TREE TRIMMING WILL BE PERMITTED.
- ALL DEBRIS GENERATED BY THE PRUNING AND TRIMMING OF THE TREES AND / OR BUSHES SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF PROPERLY (NO SEPARATE PAY ITEM)
- TREES MUST BE MAINTAINED IN GOOD HEALTH THROUGHOUT THE CONSTRUCTION PROCESS. MAINTENANCE MAY INCLUDE, BUT NOT LIMITED TO: WATERING THE ROOT PROTECTION ZONE, WASHING FOLIAGE, FERTILIZATION, PRUNING, ADDITIONAL MULCH APPLICATIONS AND OTHER MAINTENANCE AS NEEDED ON THE PROJECT.
- ANY TREE REMOVAL SHALL BE APPROVED BY THE CITY ARBORIST. (207-0278)
- TREES WHICH ARE DAMAGED OR LOST DUE TO THE CONTRACTOR'S NEGLIGENCE DURING CONSTRUCTION SHALL BE MITIGATED TO THE CITY'S SATISFACTION.
- TREE PLANTING FOR MITIGATION OR ENHANCEMENT: ALL PLANTED TREES SHALL BE MAINTAINED IN A HEALTHY CONDITION AT ALL TIMES. THIS INCLUDES IRRIGATION, FERTILIZING, PRUNING AND OTHER MAINTENANCE AS NEEDED ON THE PROJECT. TREES THAT DIE WITHIN TWELVE (12) MONTHS SHALL BE REPLACED WITH A TREE OF EQUAL SIZE AND SPECIES.

**ACCESSIBILITY REQUIREMENTS**

- THE CONTRACTOR SHALL PROVIDE AND MAINTAIN VEHICULAR AND PEDESTRIAN ACCESS AT ALL TIMES TO LOCAL RESIDENCES AND BUSINESSES.
- WHEN THE WORK REQUIRES THE EXCAVATION OF THE STREET AND THE REMOVAL OF THE EXISTING DRIVEWAY APPROACHES AND SIDEWALKS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY ALL-WEATHER ACCESS TO THE BUSINESSES AND RESIDENCES. THE TEMPORARY DRIVEWAY APPROACHES SHALL BE CONSTRUCTED WITH FLEXIBLE BASE OR GRAVEL MATERIAL AT NO SEPARATE COST TO THE CITY.
- PRIOR TO INITIATING THE CONSTRUCTION OF NEW DRIVEWAY APPROACHES, THE CONTRACTOR SHALL GIVE ADVANCE WARNING IN PERSON, OR IN WRITING, OF AT LEAST 48 HOURS TO EACH RESIDENCE THAT WILL BE IMMEDIATELY AFFECTED, SO THAT ALTERNATE PLANS MAY BE MADE BY THE RESIDENTS.
- FOR BUSINESSES WITH MORE THAN ONE DRIVEWAY, AT LEAST ONE DRIVEWAY SHALL REMAIN OPEN WHILE THE OTHER NEW DRIVEWAY APPROACHES ARE CONSTRUCTED. FOR BUSINESSES WITH ONLY ONE DRIVEWAY, THE NEW DRIVEWAY APPROACH SHALL BE CONSTRUCTED IN HALF WIDTHS, UNLESS A TEMPORARY ASPHALT DRIVEWAY IS FIRST INSTALLED AT NO SEPARATE COST TO THE CITY.
- THE CONTRACTOR IS RESPONSIBLE FOR REROUTING PEDESTRIAN TRAFFIC WHEN NECESSARY. THE CONTRACTOR SHALL PROVIDE SIGNAGE IN ACCORDANCE WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AT NO ADDITIONAL COST.

**DRAINAGE NOTES**

- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN ALL REQUIRED STORM WATER PERMITS, FEES, AND APPROVALS. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PERMITS REQUIRED FOR CONSTRUCTION IN DRAINAGE EASEMENTS, RIGHT-OF-WAYS, AND FLOODPLAINS.
- THE CONTRACTOR SHALL NOTIFY STORM WATER ENGINEERING AT LEAST 24 HOURS PRIOR TO THE INSTALLATION OF ANY DRAINAGE FACILITY WITHIN A DRAINAGE EASEMENT OR STREET RIGHT-OF-WAY NOT INDICATED ON THE CONSTRUCTION PLANS.
- THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING DRAINAGE FACILITIES FROM DAMAGE. ANY DAMAGE TO EXISTING DRAINAGE SYSTEMS, WHETHER OR NOT SHOWN ON THE PLANS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR AT HIS EXPENSE. THE CONTRACTOR SHALL NOTIFY STORM WATER ENGINEERING AT 210-207-8052 AS SOON AS CONFLICTS WITH UTILITIES ARE ENCOUNTERED OR ANY DRAINAGE SYSTEM IS DAMAGED DURING CONSTRUCTION.
- CONSTRUCTION SPOILS WILL NOT BE ALLOWED TO BE DEPOSITED ANYWHERE WITHIN A DRAINAGE EASEMENT, RIGHT-OF-WAY OR FLOODPLAIN WITHIN THE LIMITS OF THE PROJECT AND SHALL BE DISPOSED OFFSITE IN COMPLIANCE WITH CURRENT APPLICABLE REGULATIONS.

**DRAINAGE NOTES (CONTINUED)**

- NO STRUCTURE, FENCES, WALLS, LANDSCAPING, OR OTHER OBSTRUCTIONS THAT IMPEDE DRAINAGE SHALL BE PLACED WITHIN THE LIMITS OF THE DRAINAGE EASEMENTS, PROJECT AREA, AND/OR STAGING AREAS SHOWN ON THE CONSTRUCTION DOCUMENTS.
- UPON COMPLETION OF TRENCHING, THE AREA WILL BE BACKFILLED AND COMPACTED TO ITS ORIGINAL CONDITION. TRENCHES/BORE PITS TO BE OPEN AND UNATTENDED LONGER THAN 24 HOURS SHALL BE PROTECTED TO WITHSTAND ALL HYDRODYNAMIC AND HYDROSTATIC FORCES AND PREVENT DOWNSTREAM IMPACTS. TRENCHES/BORE PITS TO BE OPEN LONGER THAN 30 DAYS AFTER STARTING EXCAVATION SHALL BE BACKFILLED WITH A SEMI-PERMANENT REPAIR BACKFILL.
- IMPROVED SECTIONS OF EARTHEN CHANNELS AND/OR WATERWAYS WILL BE VEGETATED BY SEEDING OR SODDING. EIGHTY-FIVE PERCENT OF THE CHANNEL SURFACE AREA MUST HAVE ESTABLISHED VEGETATION BEFORE THE CITY OF SAN ANTONIO WILL ACCEPT THE CHANNEL FOR MAINTENANCE.

**SW3P NOTES**

- THE CONTROL MEASURES CONTAINED HEREON (AND IS FURTHER DESCRIBED BY THE STANDARD SPECS) SHALL BE INSTALLED AND MAINTAINED THROUGHOUT THE CONSTRUCTION CONTRACT TO ASSURE EFFECTIVE AND CONTINUOUS WATER POLLUTION CONTROL, DURING CONSTRUCTION AND POST CONSTRUCTION PERIODS (SEE STANDARD SPEC ITEM 540)
- THE CONTRACTOR SHALL CLEAN PAVED SURFACES (ADJACENT TO THE CONSTRUCTION AREAS) AS NECESSARY TO REMOVE SEDIMENT WHICH HAS ACCUMULATED ON THE ROADWAY DUE TO STORM WATER FLOWS AND VEHICULAR TRAFFIC THROUGH AND ACROSS THE CONSTRUCTION SITE (SEE STANDARD SPEC ITEM 540)
- IN CASE OF FAILURE ON THE PART OF THE CONTRACTOR TO PREVENT AND CONTROL SOIL EROSION, SEDIMENTATION AND WATER POLLUTION WHICH MAY DEGRADE RECEIVING WATERS, THE ENGINEER RESERVES THE RIGHT TO EMPLOY OUTSIDE ASSISTANCE OR USE CITY FORCES TO PROVIDE THE NECESSARY CORRECTIVE MEASURES. ALL COSTS (INCLUDING ENGINEERING) WILL BE DEDUCTED FROM ANY MONEYS DUE TO OR BECOME DUE TO THE CONTRACT (SEE STANDARD SPEC ITEM 540)
- UPON COMPLETION OF CONSTRUCTION AND THE INSTALLATION OF PERMANENT EROSION CONTROL METHODS, A FINAL EROSION CONTROL INSPECTION WILL BE PERFORMED AS PART OF ACCEPTANCE OF THE PROJECT BY THE CITY. THE EVENT THAT THE PERMANENT EROSION CONTROL IS INADEQUATE DUE TO IMPROPER DESIGN OR INSTALLATION, THE PERMANENT EROSION CONTROL MEASURES MUST BE CORRECTED OR REDESIGNED TO FUNCTION PROPERLY PRIOR TO SUBMITTAL OF A NOTICE OF TERMINATION (SEE STANDARD SPEC 540)
- THE CONTRACTOR SHALL PREPARE AN NOI FOR ITSELF AND FOR COSA TO AUTHORIZE DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY AT LEAST 48 HOURS PRIOR TO ARRIVAL AT THE PROJECT SITE. CONTRACTORS MUST OBTAIN AUTHORIZATION FROM TCEQ BEFORE GROUND DISTURBING ACTIVITIES BEGIN.
- FOR PROJECTS THAT INCLUDE CONSTRUCTION ASSOCIATED WITH A NATURAL GAS PIPELINE, CONTRACTOR SHALL PROHIBIT ACTIVITY ASSOCIATED WITH THE PIPELINE UNTIL AUTHORIZATION HAS BEEN RECEIVED FROM EPA. BOTH THE CONTRACTOR AND COSA SHALL PREPARE SEPARATE NOI TO AUTHORIZE DISCHARGES ASSOCIATED WITH NATURAL GAS PIPELINE CONSTRUCTION ACTIVITY AT LEAST 14 DAYS PRIOR TO ARRIVAL AT THE PROJECT SITE. THE EPA PERMIT MAY BE TERMINATED ONCE THE GAS PIPELINE WORK IS COMPLETED AND ACCEPTED. EPA ELECTRONIC NOI REQUEST CAN BE COMPLETED AT THE FOLLOWING WEBSITE: <http://cdx.epa.gov/> CONTRACTORS MUST OBTAIN AUTHORIZATION FROM TCEQ BEFORE GROUND DISTURBING ACTIVITIES BEGIN.
- THE CONTRACTOR SHALL SUBMIT A SIGNED NOTICE OF TERMINATION (NOT) TO THE DRAINAGE DIVISION WHEN THE PROJECT IS COMPLETE AND ACCEPTED BY THE CITY. THE CONSULTANT SHALL COMPLETE A SECOND NOT FOR THE CITY AND SUBMIT IT TO THE DRAINAGE DIVISION UPON COMPLETION OF THE PROJECT.
- THE CERTIFICATION SHALL BE SIGNED BY THE CONTRACTOR AND CITY ENGINEER DURING PRE-CONSTRUCTION AND KEPT IN THE OFFICE OF PUBLIC WORKS.
- THE CONTRACTOR SHALL PROVIDE THE DRAINAGE DIVISION COPIES OF REVISED DRAWINGS INDICATING THE LOCATIONS OF POTENTIAL POLLUTANT SOURCES (E.G., CONCRETE WASHOUT AREAS, CONSTRUCTION MATERIALS STAGING AREAS, SUPPORTING CONSTRUCTION ACTIVITIES, ETC.) TWO WEEKS PRIOR TO THE CONTRACTOR INITIATING THE CHANGE.

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NO	DATE	DESCRIPTION	DWG	CHK
REVISIONS				
 <p>TBPE FIRM REGISTRATION #312 300 EAST SONTERRA BLVD., SUITE 230 SAN ANTONIO, TEXAS 78258-3991 TEL (210) 798-1895 FAX (210) 798-1896</p>				
<p><b>CITY OF SAN ANTONIO</b> DEPARTMENT OF TRANSPORTATION &amp; CAPITAL IMPROVEMENTS</p> <p>MARTIN LUTHER KING PARK</p> <p><b>GENERAL NOTES</b></p>				
SHEET 1 OF 1				
--		PROJECT No. 40-00374	DATE: SEPT 2016	
DRWN BY: CC	DSGN BY: MGC	CHKD BY: JC	SHEET No 10	

ADDENDUM 1 (09-20-2016) - UPDATED GENERAL NOTE NO. 20

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**ROADWAY SUMMARY**

SHEET	LOCATION	104.1	107.1	108.1	108.2	200.1	202.1	203.1	205.4	500.1 *	502.1 *	502.1 *	502.1	502.3	504.2	*SEE NOTE 1	129302
		STREET EXCAVATION (1,000 C.Y. < X < 10,000 C.Y.)	EMBANKMENT (FINAL)(DENS CONT)(TY A)	LIME TREATED SUBGRADE (6" COMPACTED DEPTH)	LIME (< 100 TON.)	FLEXIBLE BASE (6.5" COMPACTED DEPTH)	PRIME COAT	TACK COAT	HOT MIX ASPHALTIC PAVEMENT, TYPE D (2" COMP. DEPTH) (> 5000 S.Y.)	CONCRETE CURBING (> 1,000 L.F.)	CONCRETE SIDEWALKS (INTEGRAL COLOR) (150 S.Y. < X < 1,000 S.Y.)	CONCRETE SIDEWALKS (4 IN) (150 S.Y. < X < 1,000 S.Y.)	CONCRETE SIDEWALKS (6 IN) (< 150 S.Y.)	CONCRETE DIRECTIONAL ISLAND (INTEGRAL COLOR)	SIDEWALK RAMP	REMOVABLE BOLLARDS (HOT DIPPED GALVANIZED)	
		C.Y.	C.Y.	S.Y.	TON.	S.Y.	GAL.	GAL.	S.Y.	L.F.	S.Y.	S.Y.	S.Y.	S.Y.	EA.	EA.	EA.
<b>Roadway Plan &amp; Profile SHEETS</b>																	
1 OF 5	Roadway Plan & Profile (MLK 1)	643	130	1,647	29	1,616	316		1,581	249		194				2	
2 OF 5	Roadway Plan & Profile (MLK 1)	671	106	619	11	600	116		579	32							
3 OF 5	Roadway Plan & Profile (MLK 1)	792	41	1,143	20	1,102	216		1,080								
4 OF 5	Roadway Plan & Profile (MLK 1)	154	17	534	9	514	101		504								2
5 OF 5	Roadway Plan & Profile (MLK 2)	898	27	1,249	22	1,207	230		1,152	473		92			85	2	1
<b>Greenway Trail Layout SHEETS</b>																	
1 OF 2	Greenway Trail Layout									171	325			3		1	
2 OF 2	Greenway Trail Layout										206						1
<b>Access Control Plan SHEETS</b>																	
1 OF 1	Access Control Plan																10
<b>Monument Project Layout SHEETS</b>																	
1 OF 2	Monument A Project Layout	5	24							62			36			1	
2 OF 2	Monument B Project Layout	3	25							64			38			1	
<b>Additive Alternative SHEETS</b>																	
1 OF 2	Additive Alternative 2							130	1,296								
2 OF 2	Additive Alternative 3							96	957								
<b>PROJECT TOTALS</b>		3,166	369	5,193	91	5,039	979	226	7,149	1,051	531	286	74	3	85	7	14

ADDENDUM 1 (09-20-2016) - ADDED ADDITIVE ALTERNATIVES NO. 2 AND NO. 3, ADDED ITEM NO. 203.1, UPDATED QUANTITY FOR ITEM NO. 205.4, AND ADDED ITEM NO. 354 6002

**ROADWAY SUMMARY**

SHEET	LOCATION	129302.1	129303	SP-2	354 6002	400 6006	529 6015	529 6016	543 6002
		REMOVABLE BOLLARDS (HOT DIPPED GALVANIZED PAINTED BLACK)	FIXED BOLLARDS (HOT DIPPED GALVANIZED)	GATES - VEHICULAR	PLAN & TEXT ASPH CONC PAV(0" TO 2")	CUT & RESTORING PAV	CONC CURB (TY C1)	CONC CURB (TY F1)	CABLE BARRIER SYSTEM (TL-4)
		EA.	EA.	EA.	SY	SY	LF	LF	LF
<b>Roadway Plan &amp; Profile SHEETS</b>									
1 OF 5	Roadway Plan & Profile (MLK 1)								
2 OF 5	Roadway Plan & Profile (MLK 1)								
3 OF 5	Roadway Plan & Profile (MLK 1)								
4 OF 5	Roadway Plan & Profile (MLK 1)								
5 OF 5	Roadway Plan & Profile (MLK 2)	1	2						54
<b>Greenway Trail Layout SHEETS</b>									
1 OF 2	Greenway Trail Layout	1		1					
2 OF 2	Greenway Trail Layout								
<b>Access Control Plan SHEETS</b>									
1 OF 1	Access Control Plan			6					359
<b>Monument Project Layout SHEETS</b>									
1 OF 2	Monument A Project Layout					14	23	21	
2 OF 2	Monument B Project Layout					15	26	24	
<b>Additive Alternative SHEETS</b>									
1 OF 2	Additive Alternative 2				345				
2 OF 2	Additive Alternative 3				285				
<b>PROJECT TOTALS</b>		2	2	7	630	29	49	45	413

\* CONTRACTOR SHALL PLANE EXISTING SIDEWALK TO MATCH PROPOSED GRADE & CROSS SLOPE AT TIE-INS WHEN EXISTING SIDEWALK CROSS SLOPE EXCEEDS 2%.

- NOTES:
- SIDEWALK RAMPS WILL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED SUBSIDIARY TO ITEM NO. 502.1 "CONCRETE SIDEWALKS."

NO	DATE	DESCRIPTION	DWG	CHK
REVISIONS				
 TBPE FIRM REGISTRATION #312 300 EAST SONTERRA BLVD., SUITE 230 SAN ANTONIO, TEXAS 78258-3991 TEL (210) 798-1895 FAX (210) 798-1896				
<b>CITY OF SAN ANTONIO</b> DEPARTMENT OF TRANSPORTATION & CAPITAL IMPROVEMENTS MARTIN LUTHER KING PARK <b>SUMMARY OF QUANTITIES (ROADWAY)</b>				
SHEET 1 OF 1				
--		PROJECT No. 40-00374	DATE: SEPT 2016	
DRWN BY: CC	DSGN BY: MGC	CHKD BY: JC	SHEET No 13	

ADDENDUM 1 (09-20-2016) - ADDED ADDITIVE ALTERNATIVES 2 AND 3, UPDATED QUANTITIES FOR ITEM NO. 515.1, ITEM NO. 516.1, ITEM NO. 540.9, AND ITEM NO. 168 6001, AND ADDED TOPSOIL REFERENCE NOTE

		SWPPP SUMMARY								
SHEET	LOCATION	515.1	516.1	520.1	540.1	540.6	540.8	540.9	554.1	168 6001
		TOPSOIL (> 500 C.Y.)	BERMUDA SODDING (> 2,000 S.Y.)	HYDROMULCHING (RESIDENTIAL OR COMMERCIAL)	ROCK FILTER DAMS (INSTALL/REMOVE) (TYPE 2)	CONSTRUCTION EXITS (INSTALL/REMOVE)	SANDBAGS FOR EROSION CONTROL FENCE (6")	TEMPORARY SEDIMENT CONTROL FENCE	EROSION CONTROL MATTING	VEGETATIVE WATERING
		C.Y.	S.Y.	S.Y.	L.F.	S.Y.	L.F.	L.F.	S.Y.	MG
Storm Water Pollution Prevention Plan SHEETS										
1 OF 2	Storm Water Pollution Prevention Plan Sheets	447	3,537	446		78	8	2,460	446	239
1 OF 2	Storm Water Pollution Prevention Plan Sheets	321		2,877	28			733	2,877	173
Additive Alternative SHEETS										
1 OF 2	Additive Alternative 2	*4	75					682		5
2 OF 2	Additive Alternative 3	*6	90					452		6
PROJECT TOTALS		778	3,702	3,323	28	78	8	4,327	3,323	423

\* QUANTITY IS DETERMINED USING 2" DEPTH TO MATCH PLANE AND OVERLAY DEPTH

TREE PRESERVATION SUMMARY		
SHEET	LOCATION	801.3
		TY IIA TREE PROTECTION
LF		
Tree Preservation Plan SHEETS		
1 OF 1	Tree Preservation Plan	3,343
PROJECT TOTALS		3,343

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NO	DATE	DESCRIPTION	DWG	CHK
REVISIONS				
 TBPE FIRM REGISTRATION #312 300 EAST SONTERRA BLVD., SUITE 230 SAN ANTONIO, TEXAS 78258-3991 TEL (210) 798-1895 FAX (210) 798-1896				
<b>CITY OF SAN ANTONIO</b> DEPARTMENT OF TRANSPORTATION & CAPITAL IMPROVEMENTS MARTIN LUTHER KING PARK				
<b>SUMMARY OF QUANTITIES</b> <b>(SWPPP &amp; TREE PRESERVATION)</b>				
SHEET 1 OF 1				
--	PROJECT No. 40-00374		DATE: SEPT 2016	
DRWN BY: CC	DSGN BY: MGC	CHKD BY: JC	SHEET No 16	

**SIGNING AND PAVEMENT MARKINGS SUMMARY**

SHEET	LOCATION	531.3	531.55	531.91	531.92	531.93	531.94	531.95	531.96	531.97	531.98	531.99	532.00	535.2	535.7	535.91	*SEE NOTE 1
		R1-1 STOP (30")(HIGH INTENSITY)	OM-3 TYPE 3 OBJECT MARKER (12"x36")(HIGH INTENSITY)	R7-8T RESERVED PARKING (12"x18")(HIGH INTENSITY)	W8-19 DEPTH MARKER (12"x72")(HIGH INTENSITY)	W8-19aTP FLOOD GAUGE (18"x12")(HIGH INTENSITY)	SMALL MONUMENT	ORDINANCE SIGN	REMOVE & RELOCATE SIGN	WALK YOUR BIKE SIGN (WITH GRAPHIC) (12"x18") (HIGH INTENSITY)	W8-18 ROAD MAY FLOOD (36"x36")(HIGH INTENSITY)	W16-4P NEXT 500 FT (30"x24")(HIGH INTENSITY)	R7-8P VAN ACCESSIBLE (PLAQUE) (12"x6")(HIGH INTENSITY)	4 INCH WIDE WHITE LINE (< 30,000 LF)	24 INCH WIDE WHITE LINE (< 1,500)	ACCESSIBLE PARKING SPACE SYMBOL	POLE ASSEMBLY
		EA.	EA.	EA.	EA.	EA.	EA	EA	EA	EA	EA	EA	EA	L.F.	L.F.	EA.	EA
Signing and Pavement Markings SHEETS																	
1 OF 2	Signing and Pavement Markings	5	4	2	2	2	1	1	5	2	1	1	1	461	161	2	5
2 OF 2	Signing and Pavement Markings									1	1	1					
<b>PROJECT TOTALS</b>		<b>5</b>	<b>4</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>5</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>461</b>	<b>161</b>	<b>2</b>	<b>5</b>



- NOTES:
- POLE ASSEMBLY ASSOCIATED WITH SIGNS SHALL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED SUBSIDIARY TO ITEM NO. 531.96 "REMOVE & RELOCATE SIGN."

NO	DATE	DESCRIPTION	DWG	CHK
REVISIONS				
 <p>TBPE FIRM REGISTRATION #312 300 EAST SONTERRA BLVD., SUITE 230 SAN ANTONIO, TEXAS 78258-3991 TEL (210) 798-1895 FAX (210) 798-1896</p>				
<b>CITY OF SAN ANTONIO</b> DEPARTMENT OF TRANSPORTATION & CAPITAL IMPROVEMENTS MARTIN LUTHER KING PARK				
<b>SUMMARY OF QUANTITIES</b> (SIGN AND PVMNT MARKINGS)				
SHEET 1 OF 1				
--		PROJECT No. 40-00374	DATE: SEPT 2016	
DRWN BY: CC	DSGN BY: MGC	CHKD BY: JC	SHEET No 17	

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**I. GENERAL NOTES**

- A. IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO SEE THAT ALL TRAFFIC CONTROL DEVICES ARE PROPERLY INSTALLED AND MAINTAINED AT THE JOB SITE IN ACCORDANCE WITH THE PLANS, SPECIFICATIONS, AND RELATED INDUSTRY STANDARDS AND REGULATIONS. THESE NOTES DO NOT, IN OF THEMSELVES, CONSTITUTE TRAFFIC CONTROL PLANS. IN THE EVENT THAT THESE PLANS DO NOT INCLUDE TRAFFIC CONTROL, OR THAT THE CONTRACTOR WISHES TO VARY FROM TRAFFIC CONTROL INCLUDED WITH THESE PLANS THEY SHALL SUBMIT FOR REVIEW A TRAFFIC CONTROL PLAN SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF TEXAS, INCLUDING A SIGN AND BARRICADE PLAN CONFORMING TO THE REQUIREMENTS OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. THE CITY CONSTRUCTION OBSERVER/INSPECTOR (COI), AND TRAFFIC ENGINEERING REPRESENTATIVE WILL ONLY BE RESPONSIBLE TO INSPECT THE TRAFFIC CONTROL DEVICES BEING DEPLOYED. IF, IN THE OPINION OF THE TRAFFIC ENGINEERING REPRESENTATIVE AND COI, THE TRAFFIC CONTROL DEVICES DO NOT CONFORM TO ESTABLISHED STANDARDS OR ARE INCORRECTLY PLACED OR ARE INSUFFICIENT IN QUANTITY TO PROTECT THE GENERAL PUBLIC, THE COI SHALL HAVE THE OPTION TO STOP CONSTRUCTION OPERATIONS AT NO EXPENSE TO THE CITY UNTIL SUCH TIME AS THE CONDITIONS ARE CORRECTED BY THE CONTRACTOR.
- B. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN AND MAINTAIN ALL TRAFFIC CONTROL DEVICES REQUIRED TO PROTECT THE GENERAL PUBLIC. ALL PERMANENT SIGNS OR TRAFFIC CONTROL DEVICES MISSING OR DAMAGED UPON COMPLETION OF CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- C. AS WORK PROGRESSES, LOCATION OF TEMPORARY TRAFFIC CONTROL DEVICES WILL BE ADJUSTED AND MODIFIED AS NECESSARY BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
- D. TEMPORARY TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE CITY OF SAN ANTONIO OR TXDOT TYPICAL SIGN AND BARRICADE STANDARDS SHEETS AND TO THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- E. THE CONTRACTOR MUST PROVIDE TWO-WAY TRAFFIC ON ALL STREETS DURING NON-WORK HOURS, NIGHTS, AND WEEKENDS.
- F. THE CONTRACTOR SHALL PROVIDE FOR ACCESS TO ALL BUSINESSES AT ALL TIMES WITHIN ALL PHASES OF THE WORK.
- G. ALL TEMPORARY TRAFFIC CONTROL DEVICES, ETC. SHALL BE PROVIDED BY THE CONTRACTOR WITHOUT DIRECT PAYMENT, UNLESS OTHERWISE NOTED OR STATED.
- H. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ALL STREETS OUTSIDE OF THE PROJECT LIMITS WHICH ARE DAMAGED DUE TO CONSTRUCTION ACTIVITIES. THE REPLACED SECTION MUST BE APPROVED BY THE ENGINEER. THERE WILL BE NO DIRECT PAYMENT FOR THIS WORK. THE COST IS TO BE INCLUDED IN OTHER ITEMS. THE CONTRACTOR IS RESPONSIBLE FOR SAW CUTTING THE DISTURBED AREAS AND REPLACING TO EXISTING CONDITIONS OR BETTER.
- I. THE CONTRACTOR SHALL PROVIDE THE CITY AN EMERGENCY TELEPHONE NUMBER FOR EVENINGS, WEEKENDS, AND HOLIDAYS BY THE FIRST WORKING DAY OF THE PROJECT. THIS TELEPHONE NUMBER MUST BE A COMMERCIAL ANSWERING SERVICE. THE ANSWERING SERVICE MUST BE ABLE TO CONTACT THE CONTRACTOR AND HAVE THE CONTRACTOR RESPOND TO THE CITY STAFF WITHIN TWO HOURS OF THE INTIAL CONTACT.
- J. THE CONTRACTOR SHALL MAINTAIN CONTINUOUS ACCESS TO ALL INTERSECTING STREETS UNLESS OTHERWISE SHOWN ON THESE PLANS. WHEN CONTINUOUS ACCESS IS SCHEDULED TO BE BLOCKED, THE CONTRACTOR SHALL CONTACT THE DISPATCHERS FOR THE FIRE DEPARTMENT AT (210)619-1300 AND EMS AT (210)219-1400, POLICE DEPARTMENT AT (210)619-1000, BEXAR COUNTY SHERIFF'S DEPARTMENT AT (210)226-0303, AND THE CITY OF SAN ANTONIO AT (210)207-6000 TO APPRISE THEM OF THE PENDING STREET CLOSURE AT LEAST FORTY-EIGHT HOURS IN ADVANCE.
- K. CONSTRUCTION ASSOCIATED WITH VEGETATION REMOVAL SHALL OCCUR ONLY OUTSIDE THE MIGRATORY BIRD NESTING SEASON. THE MIGRATORY BIRD BREEDING SEASON TAKES PLACE MARCH 1 - AUGUST 30 THEREFORE BRUSH CLEARING OPERATIONS SHALL TAKE PLACE PRIOR TO MARCH 1, 2017.

**II. SEQUENCE OF WORK**

THE SEQUENCE OF WORK WILL BE AS FOLLOWS UNLESS OTHERWISE DIRECTED/APPROVED BY THE CITY OF SAN ANTONIO INSPECTOR. MLK PARK WILL BE CONSTRUCTED IN TWO PHASES WITH SUB PHASES AS NOTED IN THIS NARRATIVE. CONTRACTOR SHALL PHASE AND ACCESS PROJECT SITE FROM THE SOUTH ENTRANCE ONLY (MARTIN LUTHER KING DRIVE). ACCESS FROM THE NORTH (NOBLEWOOD DRIVE) SHALL BE COORDINATED WITH THE OWNER (COSA PARKS & RECREATION DEPARTMENT) PRIOR TO ENTRY.

**A. PHASE I STEP 1 - ROADWAY AND BRIDGE CONSTRUCTION**

- 1. INSTALL ADVANCE WARNING SIGNS AND TRAFFIC CONTROL MEASURES AS SHOWN ON TCP LAYOUTS. THIS IS TO INCLUDE PEDESTRIAN DETOUR SIGNAGE AND TRAFFIC CONTROL MEASURES.
- 2. INSTALL SW3P MEASURES AS SHOWN ON PLANS.
- 3. PROTECT EXISTING TREES TO REMAIN.
- 4. CONSTRUCT ACCESS CONTROL FEATURES WITHIN WHEATLEY HEIGHTS SPORTS COMPLEX.
- 5. BEGIN CLEARING OPERATIONS.
- 6. CONSTRUCT NEW PARKING AREA FROM APPROXIMATE STA 10+55 (MLK 2) TO STA 12+69 (MLK 2). CONSTRUCT THE ROADWAY SECTION UP TO FIRST 2" OF HMAC TY D.
- 7. CONSTRUCT SIDEWALK AT NORTHWEST CORNER OF MLK 1 AND MLK 2 EAST INTERSECTION AS SHOWN ON TCP LAYOUTS.
- 8. CONSTRUCT TEMPORARY PAVEMENT AS SHOWN ON TCP LAYOUTS.
- 9. OBLITERATE EXISTING GREENWAY TRAIL AS SHOWN ON PLANS.
- 10. CONSTRUCT ROADWAY AND BRIDGE FROM APPROXIMATE STA 14+50 (MLK 1) TO END OF PROJECT STA 23+66.27 (MLK 1).
- 11. INSTALL ILLUMINATION AS SHOWN ON THE PLANS.
- 12. CONSTRUCT GREENWAY TRAIL FROM STA 10+00 TO STA 15+36.91.

**B. PHASE I STEP 2A - ROADWAY CONSTRUCTION**

- 1. PRIOR TO THE BEGINNING OF THIS SUB-PHASE INSTALL ADVANCE WARNING SIGNS AND COMMENCE ONE LANE TWO-WAY TRAFFIC CONTROL AS SHOWN ON TCP LAYOUTS.
- 2. INSTALL SW3P MEASURES AS SHOWN ON PLANS.
- 3. PROTECT EXISTING TREES TO REMAIN.
- 4. CONSTRUCT THE EAST SIDE OF MLK 1 FROM BEGINNING OF PROJECT TO APPROXIMATE STA 11+82.
- 5. CONSTRUCT THE EAST SIDE OF MLK 2 FROM APPROXIMATE STA 10+00 TO STA 10+55 AND STA 12+72 TO STA 13+51.
- 6. CONSTRUCT THE ROADWAY SECTION UP TO FIRST 2" OF HMAC TY D.

**C. PHASE I STEP 2B - ROADWAY CONSTRUCTION**

- 1. PRIOR TO THE BEGINNING OF THIS SUB-PHASE INSTALL ADVANCE WARNING SIGNS AND COMMENCE ONE LANE TWO-WAY TRAFFIC CONTROL AS SHOWN ON TCP LAYOUTS.
- 2. INSTALL SW3P MEASURES AS SHOWN ON PLANS.
- 3. PROTECT EXISTING TREES TO REMAIN.
- 4. CONSTRUCT THE WEST SIDE OF MLK 1 FROM BEGINNING OF PROJECT TO APPROXIMATE STA 11+82
- 5. CONSTRUCT THE WEST SIDE OF MLK 2 FROM APPROXIMATE STA 10+00 TO STA 10+55 AND STA 12+72 TO STA 13+51. CONSTRUCT CURB, CURB RAMP, AND GREENWAY TRAIL FROM APPROXIMATE MLK 2 STA 12+29 TO STA 12+94.
- 6. CONSTRUCT THE ROADWAY SECTION UP TO FIRST 2" OF HMAC TY D.

**D. PHASE II - ROADWAY CONSTRUCTION AND BRIDGE CONSTRUCTION**

- 1. PRIOR TO THE BEGINNING OF THIS SUB-PHASE INSTALL ADVANCE WARNING SIGNS AS SHOWN ON TCP LAYOUTS.
- 2. INSTALL SW3P MEASURES AS SHOWN ON PLANS.
- 3. PROTECT EXISTING TREES TO REMAIN.
- 4. CONSTRUCT MLK 1 FROM APPROXIMATE STA 11+82 TO STA 13+98.
- 5. CONSTRUCT THE ROADWAY SECTION UP TO FIRST 2" OF HMAC TY D.

**E. PHASE III - PAVEMENT SURFACE REHABILITATION (ADDITIVE ALTERNATIVE NO. 2)**

- 1. PRIOR TO THE BEGINNING OF THIS PHASE INSTALL ADVANCE WARNING SIGNS AS SHOWN ON TCP LAYOUTS.
- 2. INSTALL SW3P MEASURES AS SHOWN ON PLANS.
- 3. PROTECT EXISTING TREES TO REMAIN.
- 4. STEP 1 - PLANE AND TEXTURE EXISTING ASPHALT SURFACE ON THE WEST SIDE OF MLK 1 PER THE LIMITS SHOWN IN THE PLANS. (ADDITIVE ALTERNATIVE NO. 2)
- 5. PLANE AND TEXTURE EXISTING ASPHALT SURFACE ON THE EAST SIDE OF MLK 1 PER THE LIMITS SHOWN IN THE PLANS. (ADDITIVE ALTERNATIVE NO. 2)
- 6. STEP 2 - CONSTRUCT THE 2" HMAC TY D OVERLAY ON THE WEST SIDE OF MLK 1 PER THE LIMITS SHOWN IN THE PLANS. (ADDITIVE ALTERNATIVE NO. 2)
- 7. CONSTRUCT THE 2" HMAC TY D OVERLAY ON THE EAST SIDE OF MLK 1 PER THE LIMITS SHOWN IN THE PLANS. (ADDITIVE ALTERNATIVE NO. 2)

**E. PHASE IV - PAVEMENT SURFACE REHABILITATION (ADDITIVE ALTERNATIVE NO. 3)**

- 1. PRIOR TO THE BEGINNING OF THIS PHASE INSTALL ADVANCE WARNING SIGNS AS SHOWN ON TCP LAYOUTS.
- 2. INSTALL SW3P MEASURES AS SHOWN ON PLANS.
- 3. PROTECT EXISTING TREES TO REMAIN.
- 4. STEP 1 - PLANE AND TEXTURE EXISTING ASPHALT SURFACE ON THE WEST SIDE OF MLK 2 PER THE LIMITS SHOWN IN THE PLANS. (ADDITIVE ALTERNATIVE NO. 3)
- 5. PLANE AND TEXTURE EXISTING ASPHALT SURFACE ON THE EAST SIDE OF MLK 2 PER THE LIMITS SHOWN IN THE PLANS. (ADDITIVE ALTERNATIVE NO. 3)
- 6. STEP 2 - CONSTRUCT THE 2" HMAC TY D OVERLAY ON THE WEST SIDE OF MLK 2 PER THE LIMITS SHOWN IN THE PLANS. (ADDITIVE ALTERNATIVE NO. 3)
- 7. CONSTRUCT THE 2" HMAC TY D OVERLAY ON THE EAST SIDE OF MLK 2 PER THE LIMITS SHOWN IN THE PLANS. (ADDITIVE ALTERNATIVE NO. 3)

**F. PHASE V - ENTRYWAY MONUMENT CONSTRUCTION**

- 1. CONSTRUCT ENTRWAY MONUMENTS A & C INCLUDING ALL SITEWORK, FLATWORK, AND MONUMENT STRUCTURES. CONTRACTOR SHALL REFER TO TXDOT STANDARD TCP (2-2)-12.
- 2. CONSTRUCT ENTRWAY MONUMENT B ENHANCEMENTS. (ADDITIVE ALTERNATIVES NO. 1)

**G. PHASE VI - FINAL SIGNS AND MARKINGS, CLEANUP, AND VEGETATION**

- 1. COMPLETE THE FINAL PAVEMENT HMAC TY D 2" SURFACE LAYER.
- 2. INSTALL FINAL PAVEMENT MARKINGS AND SIGNAGE AS SHOWN ON THE PLANS.
- 3. COMPLETE FINAL GRADING, AND SEEDING & SODDING.
- 4. REMOVE ALL SURPLUS MATERIALS FROM THE SITE, COMPLETE ALL VEGETATION AS SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER.



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NO	DATE	DESCRIPTION	DWG	CHK
REVISIONS				
TBPE FIRM REGISTRATION #312 300 EAST SONTERRA BLVD., SUITE 230 SAN ANTONIO, TEXAS 78258-3991 TEL (210) 798-1895 FAX (210) 798-1896				
<b>CITY OF SAN ANTONIO</b> DEPARTMENT OF TRANSPORTATION & CAPITAL IMPROVEMENTS MARTIN LUTHER KING PARK <b>TRAFFIC CONTROL PLAN</b> <b>NARRATIVE AND GENERAL NOTES</b>				
SHEET 1 OF 1				
--		PROJECT No. 40-00374	DATE: SEPT 2016	
DRWN BY: AB	DSGN BY: MGC	CHKD BY: JC	SHEET No. 20	

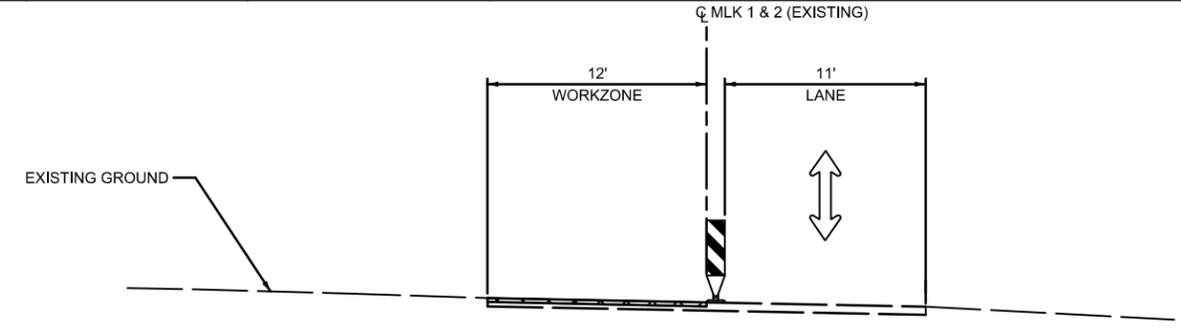
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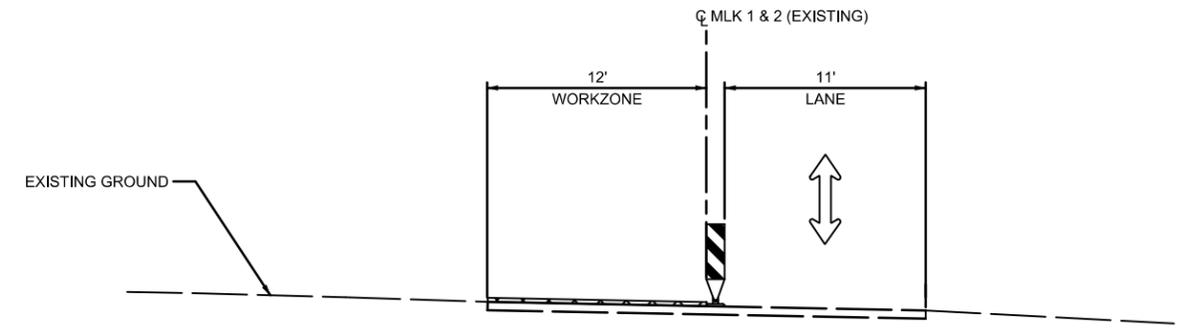
**LEGEND**

- PROP CONSTRUCTION
- TEMP PAVEMENT
- DIRECTION OF TRAFFIC FLOW
- PLASTIC DRUMS
- BARRICADE (TY 3)
- VERTICAL PANELS



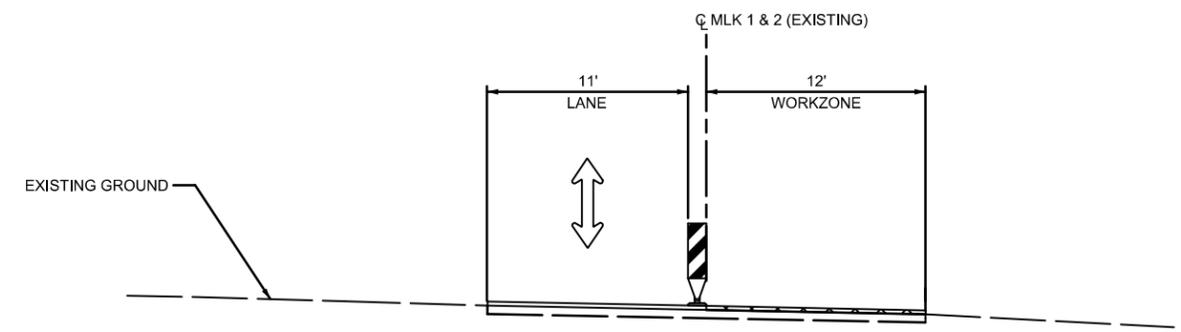
**PHASES 3 & 4 - STEP 1 (PLANE & OVERLAY)**

STA 6+17.98 TO STA 6+70.00 (MLK 1)  
 STA 9+50.00 TO STA 10+00.00 (MLK 1)  
 STA 13+50.72 TO STA 14+00.00 (MLK 2)  
 STA 16+75.00 TO STA 17+28.64 (MLK 2)  
 N.T.S.



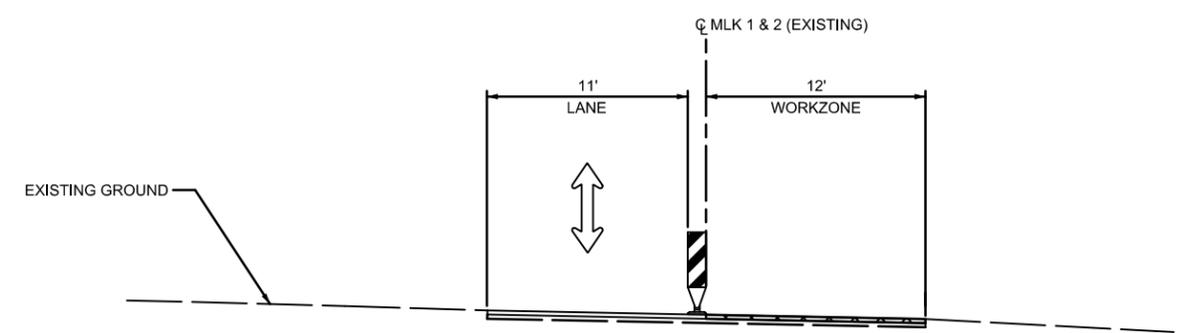
**PHASES 3 & 4 - STEP 1 (OVERLAY)**

STA 6+70.00 TO STA 9+50.00 (MLK 1)  
 STA 14+00.00 TO STA 16+75.00 (MLK 2)  
 N.T.S.



**PHASES 3 & 4 - STEP 2 (PLANE & OVERLAY)**

STA 6+17.98 TO STA 6+70.00 (MLK 1)  
 STA 9+50.00 TO STA 10+00.00 (MLK 1)  
 STA 13+50.72 TO STA 14+00.00 (MLK 2)  
 STA 16+75.00 TO STA 17+28.64 (MLK 2)  
 N.T.S.



**PHASES 3 & 4 - STEP 2 (OVERLAY)**

STA 6+70.00 TO STA 9+50.00 (MLK 1)  
 STA 14+00.00 TO STA 16+75.00 (MLK 2)  
 N.T.S.



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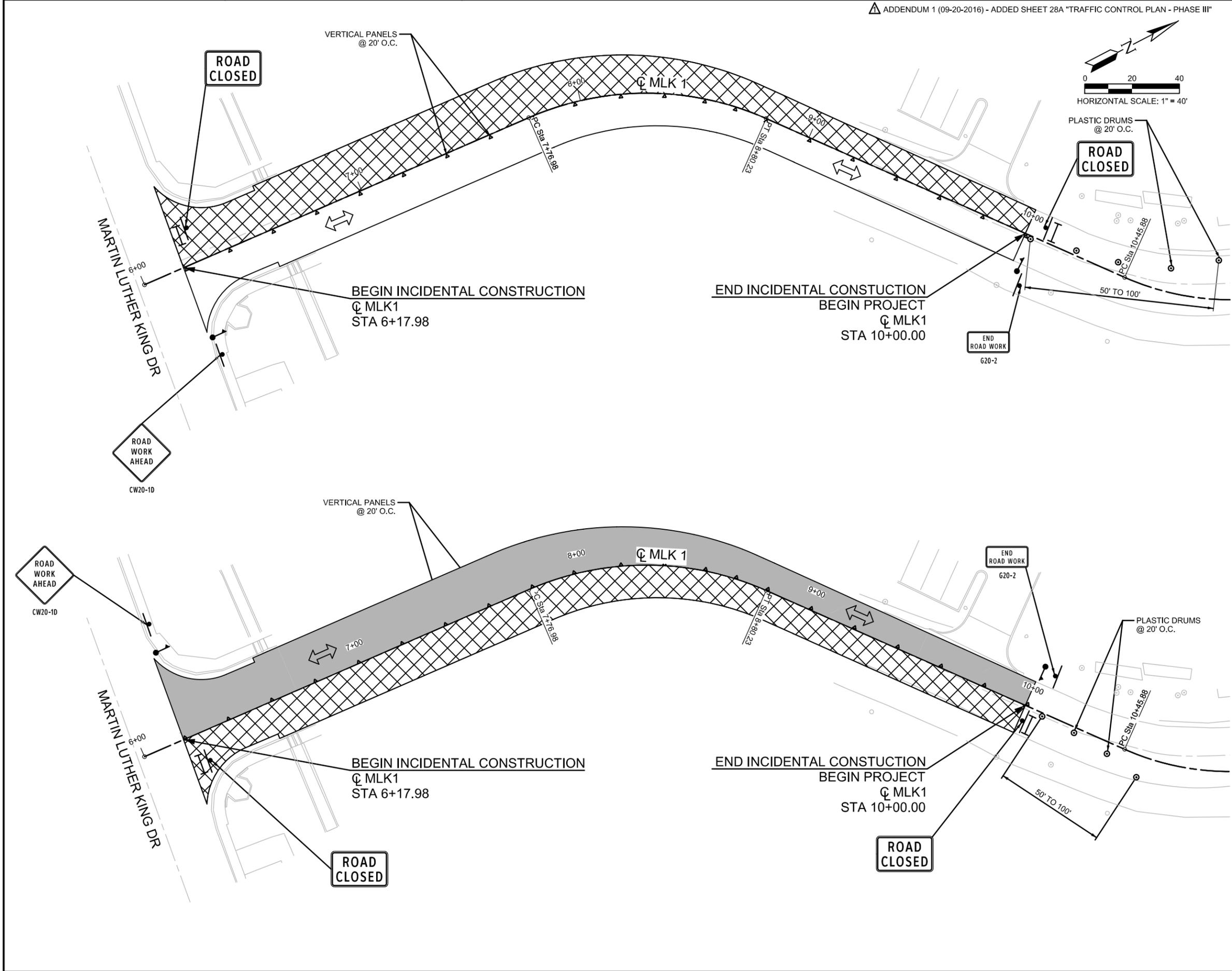
NO	DATE	DESCRIPTION	DWG	CHK
REVISIONS				
<p><b>HALFF</b>                      TBPE FIRM REGISTRATION #312                      300 EAST SONTERRA BLVD., SUITE 230                      SAN ANTONIO, TEXAS 78258-3991                      TEL (210) 798-1895                      FAX (210) 798-1896</p>				
<b>CITY OF SAN ANTONIO</b> DEPARTMENT OF TRANSPORTATION & CAPITAL IMPROVEMENTS				
MARTIN LUTHER KING PARK <b>TRAFFIC CONTROL PLAN</b> <b>TYPICAL SECTIONS ADD ALT</b> <b>NO. 2 &amp; NO. 3</b>				
SHEET 1 OF 1				
PROJECT No. 40-00374		DATE: SEPT 2016		
DRWN BY: CC	DSGN BY: MGC	CHKD BY: JC	SHEET No 21A	

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**LEGEND**

- PROP CONSTRUCTION (THIS PHASE)
- COMPL CONSTRUCTION (PREV PHASE)
- TEMP PAVEMENT (THIS PHASE)
- TEMP PEVEMENT (PREV PHASE)
- DIRECTION OF TRAFFIC FLOW
- PLASTIC DRUMS @ 20' O.C.
- BARRICADE (TY 3)
- VERTICAL PANELS
- FLAGGER

NOTES:  
 1. THE CONTRACTOR SHALL REFER TO HORIZONTAL DATA CONTROL SHEETS FOR CURVE INFORMATION.



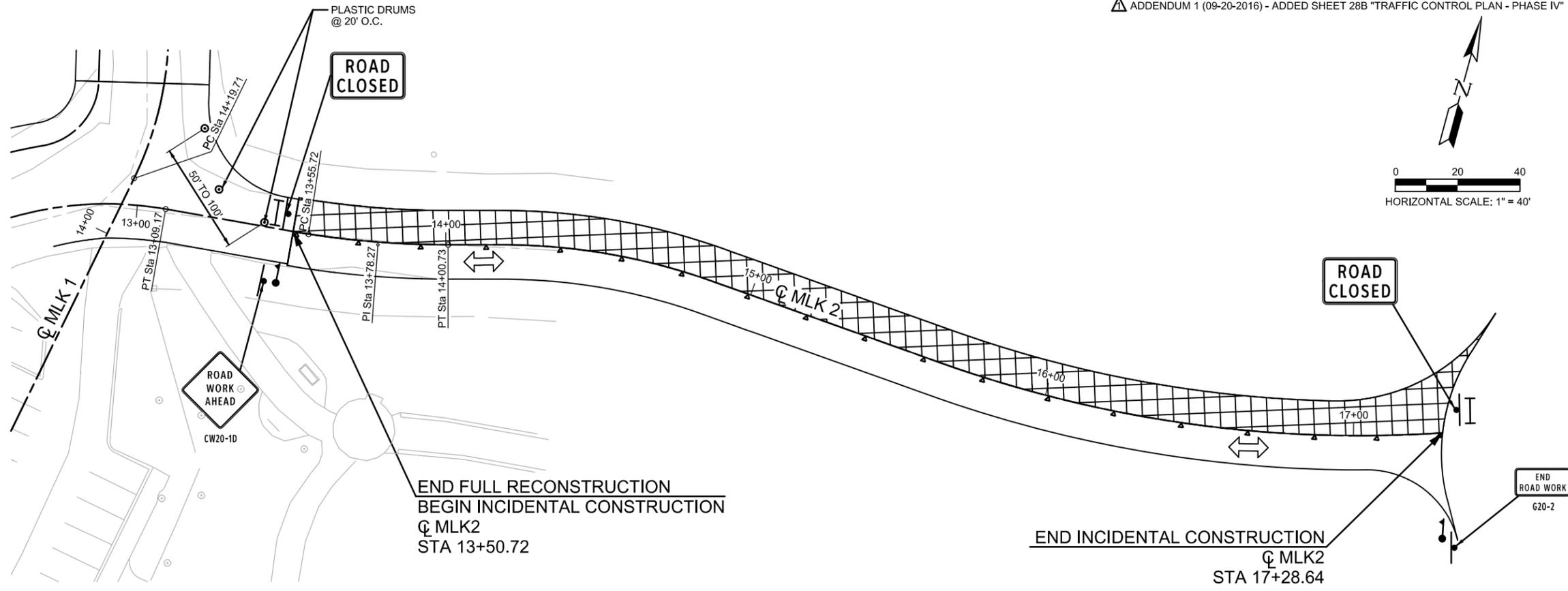
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TBPE FIRM REGISTRATION #312 300 EAST SONTERRA BLVD., SUITE 230 SAN ANTONIO, TEXAS 78258-3991 TEL (210) 798-1895 FAX (210) 798-1896				
<b>CITY OF SAN ANTONIO</b> DEPARTMENT OF TRANSPORTATION & CAPITAL IMPROVEMENTS				
MARTIN LUTHER KING PARK <b>TRAFFIC CONTROL PLAN</b> PHASE III				
SHEET 1 OF 2				
PROJECT No. 40-00374		DATE: SEPT 2016		
DRWN BY: CC	DSGN BY: MGC	CHKD BY: JC	SHEET No 28A	

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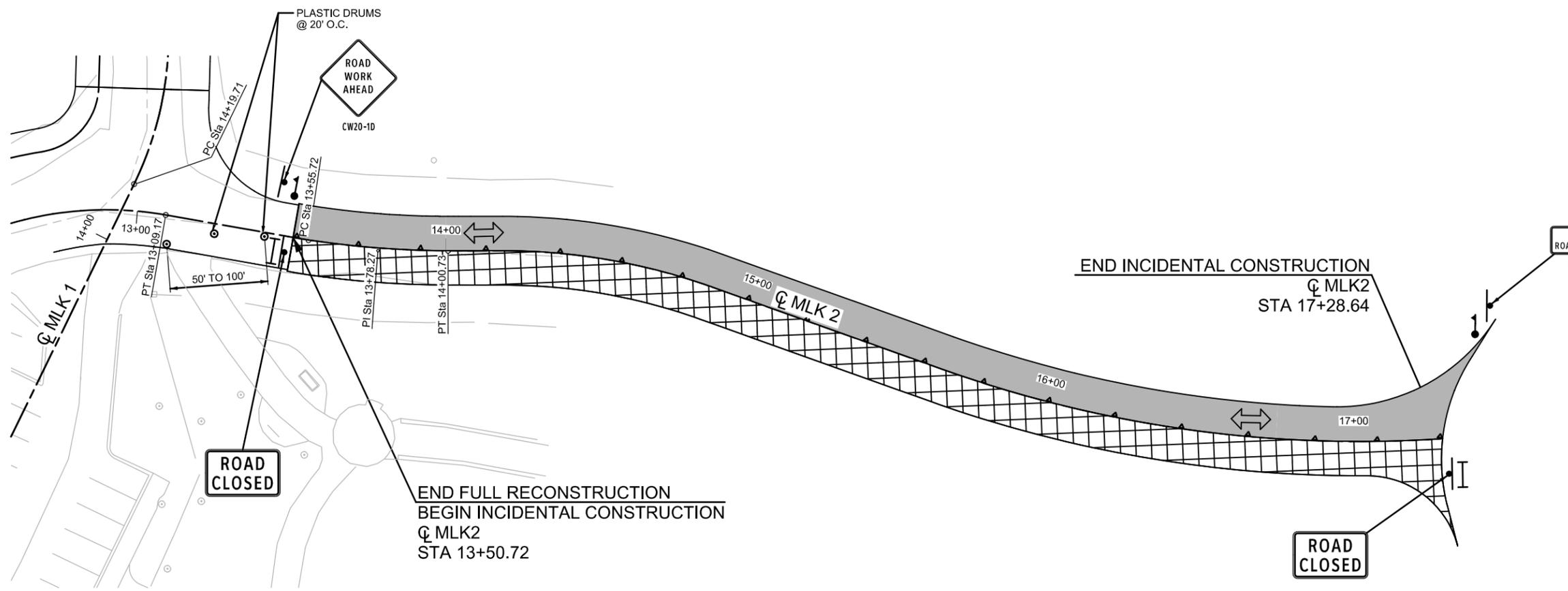
ADDENDUM 1 (09-20-2016) - ADDED SHEET 28B "TRAFFIC CONTROL PLAN - PHASE IV"



**LEGEND**

- PROP CONSTRUCTION (THIS PHASE)
- COMPL CONSTRUCTION (PREV PHASE)
- TEMP PAVEMENT (THIS PHASE)
- TEMP PEVEMENT (PREV PHASE)
- DIRECTION OF TRAFFIC FLOW
- PLASTIC DRUMS
- BARRICADE (TY 3)
- VERTICAL PANELS
- FLAGGER

NOTES:  
 1. THE CONTRACTOR SHALL REFER TO HORIZONTAL DATA CONTROL SHEETS FOR CURVE INFORMATION.



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REVISIONS				
TBPE FIRM REGISTRATION #312 300 EAST SONTERRA BLVD., SUITE 230 SAN ANTONIO, TEXAS 78258-3991 TEL (210) 798-1895 FAX (210) 798-1896				
<b>CITY OF SAN ANTONIO</b> DEPARTMENT OF TRANSPORTATION & CAPITAL IMPROVEMENTS MARTIN LUTHER KING PARK <b>TRAFFIC CONTROL PLAN</b> <b>PHASE IV</b>				
SHEET 2 OF 2				
PROJECT No. 40-00374		DATE: SEPT 2016		
DRWN BY: CC	DSGN BY: MGC	CHKD BY: JC	SHEET No 28B	





**SIDEWALK 2 C**

Point SW10 N 13,698,945.3747 E 2,153,679.2153 Sta 10+00.00

Course from SW10 to PC SDWK2-1 S 79° 08' 13.4765" E Dist 10.5522

Curve Data

Curve SDWK2-1  
 P.I. Station 10+28.56 N 13,698,939.9922 E 2,153,707.2639  
 Delta = 36° 15' 32.8920" (LT)  
 Degree = 104° 10' 26.9204"  
 Tangent = 18.0082  
 Length = 34.8063  
 Radius = 55.0000  
 External = 2.8731  
 Long Chord = 34.2284  
 Mid. Ord. = 2.7305  
 P.C. Station 10+10.55 N 13,698,943.3860 E 2,153,689.5784  
 P.T. Station 10+45.36 N 13,698,947.7155 E 2,153,723.5319  
 C.C. N 13,698,997.4005 E 2,153,699.9437  
 Back = S 79° 08' 13.4731" E  
 Ahead = N 64° 36' 13.6349" E  
 Chord Bear = N 82° 44' 00.0809" E

Curve Data

Curve SDWK2-2  
 P.I. Station 10+51.74 N 13,698,950.4511 E 2,153,729.2941  
 Delta = 65° 03' 53.2888" (RT)  
 Degree = 572° 57' 28.1812"  
 Tangent = 6.3787  
 Length = 11.3559  
 Radius = 10.0000  
 External = 1.8612  
 Long Chord = 10.7555  
 Mid. Ord. = 1.5691  
 P.C. Station 10+45.36 N 13,698,947.7155 E 2,153,723.5319  
 P.T. Station 10+56.71 N 13,698,946.3793 E 2,153,734.2041  
 C.C. N 13,698,938.6819 E 2,153,727.8206  
 Back = N 64° 36' 13.6349" E  
 Ahead = S 50° 19' 53.0763" E  
 Chord Bear = S 82° 51' 49.7207" E

Course from PT SDWK2-2 to SW11 S 50° 19' 53.0777" E Dist 6.8182

Point SW11 N 13,698,942.0270 E 2,153,739.4524 Sta 10+63.53

**SALADO CREEK C**

Point CLSALADO01 N 13,699,128.6987 E 2,153,814.7507 Sta 10+00.00

Course from CLSALADO01 to CLSALADO02 N 80° 37' 33.7750" W Dist 143.4658

Point CLSALADO02 N 13,699,152.0660 E 2,153,673.2007 Sta 11+43.47

Course from CLSALADO02 to CLSALADO03 S 76° 33' 45.3409" W Dist 89.1312

Point CLSALADO03 N 13,699,131.3535 E 2,153,586.5095 Sta 12+32.60

Course from CLSALADO03 to CLSALADO04 S 87° 07' 11.7221" W Dist 67.4030

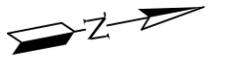
Point CLSALADO04 N 13,699,127.9668 E 2,153,519.1916 Sta 13+00.00



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REVISIONS				
 TBPE FIRM REGISTRATION #312 300 EAST SONTERRA BLVD., SUITE 230 SAN ANTONIO, TEXAS 78258-3991 TEL (210) 798-1895 FAX (210) 798-1896				
<b>CITY OF SAN ANTONIO</b> DEPARTMENT OF TRANSPORTATION & CAPITAL IMPROVEMENTS MARTIN LUTHER KING PARK <b>HORIZONTAL DATA CONTROL SHEET</b>				
SHEET 3 OF 3				
--		PROJECT No. 40-00374	DATE: SEPT 2016	
DRWN BY: CC	DSGN BY: MGC	CHKD BY: JC	SHEET No 40	

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0 50 100  
HORIZONTAL SCALE: 1" = 100'

MARTIN LUTHER KING MIDDLE SCHOOL SUBDIVISION  
LOT 22  
BLOCK 8  
N.C.B. 10685  
(VOL. 9526, PG. 165 D.P.R.)

UNPLATTED CITY OF SAN ANTONIO  
115.712 ACRES  
(VOL. 6757, PGS. 97-100 O.P.R.)

WHEATLEY HEIGHTS SPORTS PARK-NORTH  
CITY OF SAN ANTONIO  
LOT 1, N.C.B. 10677  
(80,948 ACRES)  
(VOL. 9621, PG. 115 O.P.R.)

UNPLATTED CITY OF SAN ANTONIO  
115.712 ACRES  
(VOL. 6757, PGS. 97-100 O.P.R.)

UNPLATTED CITY OF SAN ANTONIO  
115.712 ACRES  
(VOL. 6757, PGS. 97-100 O.P.R.)



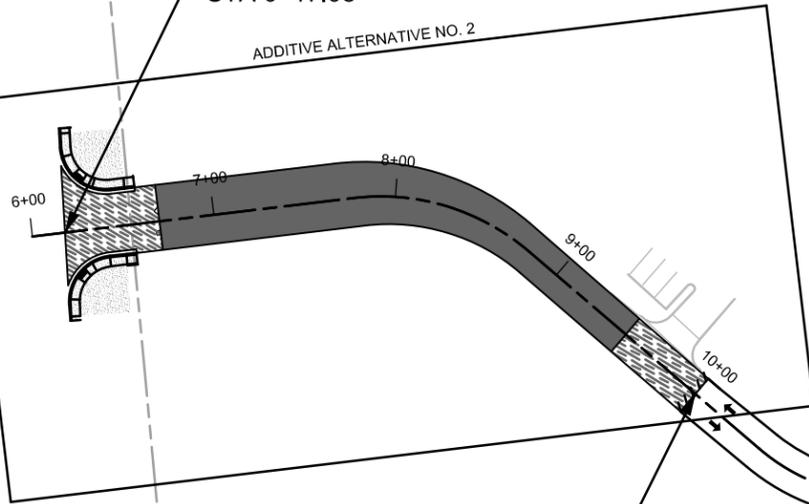
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REVISIONS				
TBPE FIRM REGISTRATION #312 300 EAST SONTERRA BLVD., SUITE 230 SAN ANTONIO, TEXAS 78258-3991 TEL (210) 798-1895 FAX (210) 798-1896				
<b>CITY OF SAN ANTONIO</b> DEPARTMENT OF TRANSPORTATION & CAPITAL IMPROVEMENTS MARTIN LUTHER KING PARK <b>SHEET INDEX LAYOUT</b>				
SHEET 2 OF 2				
PROJECT No. 40-00374		DATE: SEPT 2016		
DRWN BY: CC	DSGN BY: MGC	CHKD BY: JC	SHEET No. 43A	

**BEGIN INCIDENTAL CONSTRUCTION**

☉ MLK1  
STA 6+17.98

ADDITIVE ALTERNATIVE NO. 2



**END INCIDENTAL CONSTRUCTION**

**BEGIN PROJECT**  
☉ MLK1  
STA 10+00.00

**END CONSTRUCTION**

**BEGIN INCIDENTAL CONSTRUCTION**  
☉ MLK2  
STA 13+50.72

**END INCIDENTAL CONSTRUCTION**

☉ MLK2  
STA 17+28.64

ADDITIVE ALTERNATIVE NO. 3

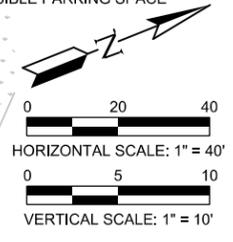
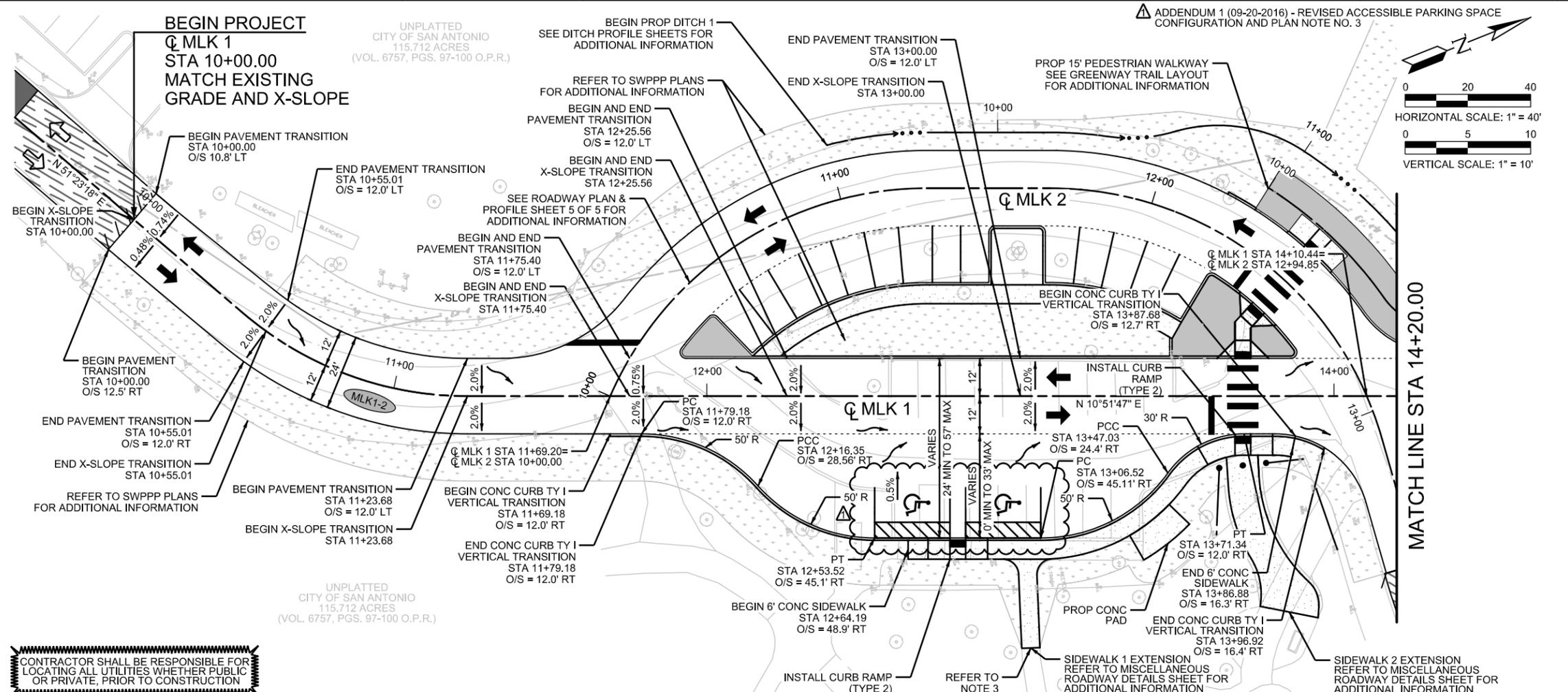
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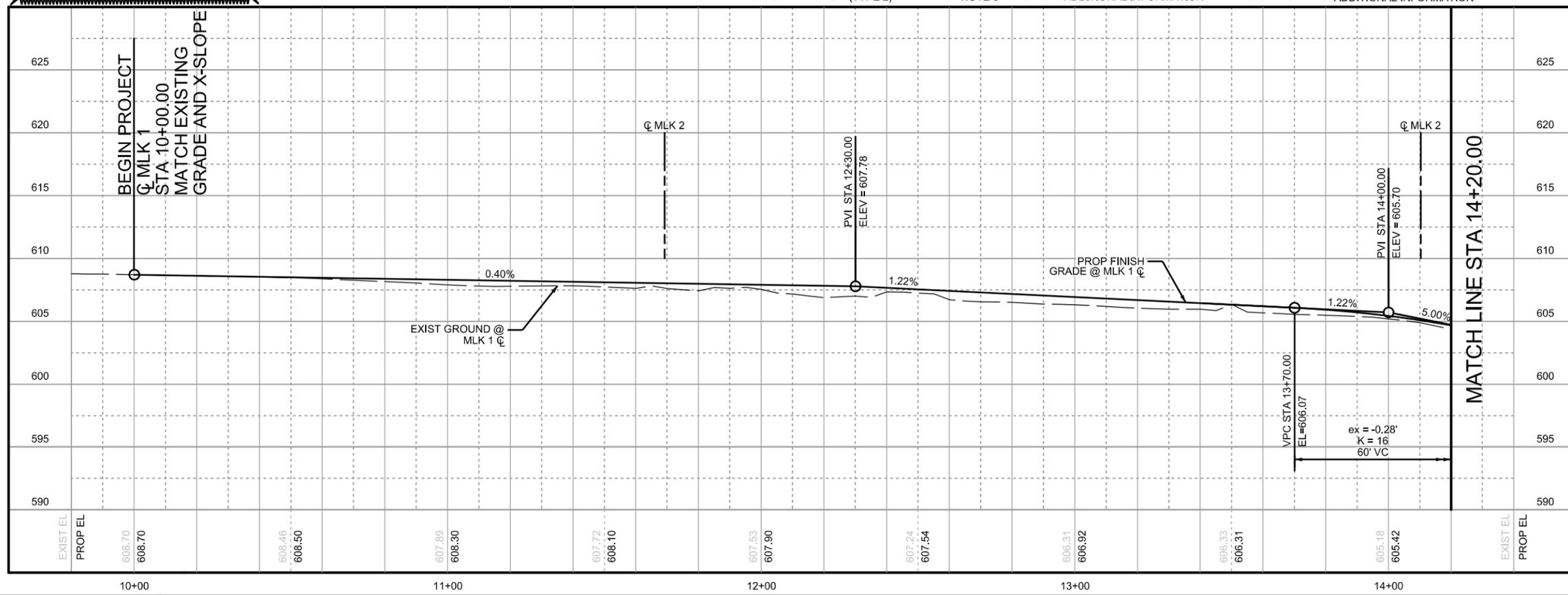


**LEGEND**

EXISTING PROPERTY LINE	---
PROPOSED ALIGNMENT	---
PROPOSED GUTTER LINE	---
PROPOSED CURVE DESIGNATION	(CURVE X)
PROPOSED SIDEWALK	---
PROPOSED COLORED CONCRETE	---
PROPOSED ROCK RIPRAP	---
PROPOSED HYDROMULCH / SOD	---
ORDINARY HIGH WATER MARK	---
PROPOSED DIRECTIONAL FLOW ARROW	→
EXISTING DIRECTIONAL FLOW ARROW	→
PROPOSED DRAINAGE FLOW ARROW	→
EXISTING OVERHEAD ELECTRIC	--- Ex OHE ---
EXISTING WATER LINE	--- Ex 36\"/>

- NOTES:**
1. ALL CALLOUTS REFERENCE MLK 1 CENTERLINE UNLESS OTHERWISE NOTED.
  2. THE CONTRACTOR SHALL REFER TO HORIZONTAL DATA CONTROL SHEETS FOR CURVE AND DITCH INFORMATION.
  3. PLANE EXISTING SIDEWALK TO MATCH PROPOSED GRADE & CROSS SLOPES ON SIDEWALK TIE-INS. X-SLOPE SHALL NOT EXCEED 2%. TO BE CONSIDERED SUBSIDIARY TO ITEM NO 502.1 "CONCRETE SIDEWALKS".
  4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING OPERATION OF ALL EXISTING UTILITIES AFFECTED BY PROPOSED CONSTRUCTION. THE CONTRACTOR SHALL REFER TO INTERSECTION LAYOUT SHEETS FOR ADDITIONAL INFORMATION. LOCATIONS OF EXISTING UTILITIES SHOWN ARE APPROXIMATE AND BASED ON AVAILABLE DRAWINGS AND FIELD SURVEY. CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
  5. THE CONTRACTOR SHALL REFER TO ROADWAY MISCELLANEOUS DETAIL SHEET FOR ADDITIONAL CURB TRANSITION INFORMATION.
  6. CALL THE TEXAS STATE WIDE ONE CALL LOCATOR NUMBER 1-800-344-8377, 48 HOURS BEFORE BEGINNING ANY EXCAVATION.

CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES WHETHER PUBLIC OR PRIVATE, PRIOR TO CONSTRUCTION



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NO	DATE	DESCRIPTION	DWG	CHK
REVISIONS				

TBPE FIRM REGISTRATION #312  
 300 EAST SONTERRA BLVD., SUITE 230  
 SAN ANTONIO, TEXAS 78258-3991  
 TEL (210) 798-1895  
 FAX (210) 798-1896

**CITY OF SAN ANTONIO**  
 DEPARTMENT OF TRANSPORTATION & CAPITAL IMPROVEMENTS  
 MARTIN LUTHER KING PARK  
**ROADWAY PLAN & PROFILE**  
**MLK 1 STA 10+00.00 TO 14+20.00**

SHEET 1 OF 5

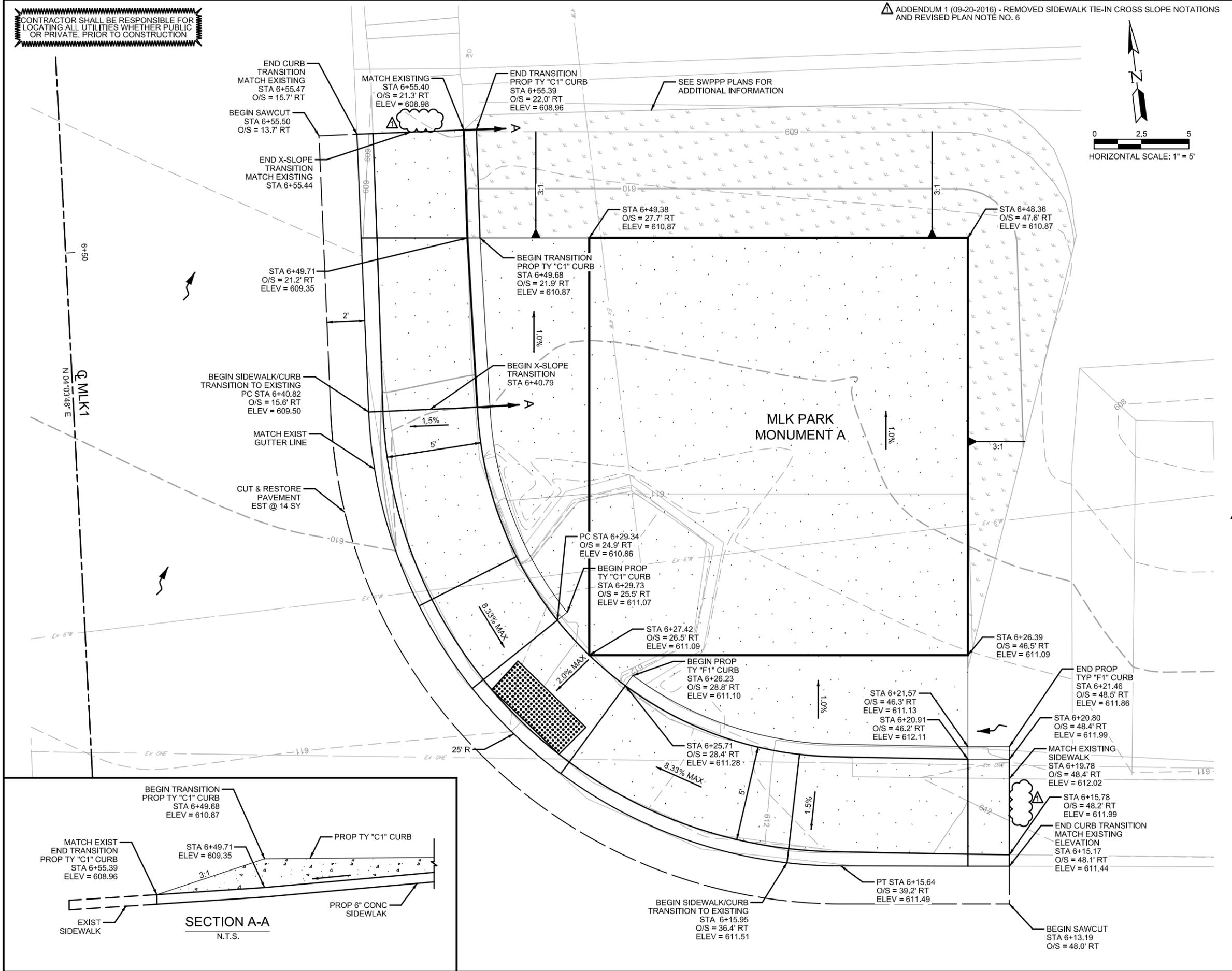
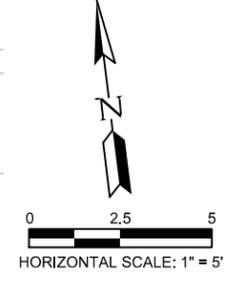
DRWN BY: CC	DSGN BY: MGC	CHKD BY: JC	DATE: SEPT 2016
PROJECT No. 40-00374		SHEET No. 44	

CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES WHETHER PUBLIC OR PRIVATE, PRIOR TO CONSTRUCTION

ADDENDUM 1 (09-20-2016) - REMOVED SIDEWALK TIE-IN CROSS SLOPE NOTATIONS AND REVISED PLAN NOTE NO. 6

**LEGEND**

EXISTING PROPERTY LINE	---
PROPOSED ALIGNMENT	---
PROPOSED GUTTER LINE	---
PROPOSED CURVE DESIGNATION	(CURVE X)
PROPOSED SIDEWALK	---
PROPOSED COLORED CONCRETE	---
PROPOSED ROCK RIPRAP	---
PROPOSED HYDROMULCH / SOD	---
ORDINARY HIGH WATER MARK	---
PROPOSED DIRECTIONAL FLOW ARROW	→
EXISTING DIRECTIONAL FLOW ARROW	→
PROPOSED DRAINAGE FLOW ARROW	→
EXISTING OVERHEAD ELECTRIC	Ex OHE
EXISTING WATER LINE	Ex 36" W
EXISTING SANITARY SEWER LINE	Ex 84" SS
PROPOSED DITCH ALIGNMENT	→
EXISTING MANHOLE	○MH
EXISTING LIGHT POLE	○LP
EXISTING POWER POLE	○PP
EXISTING TREE	○



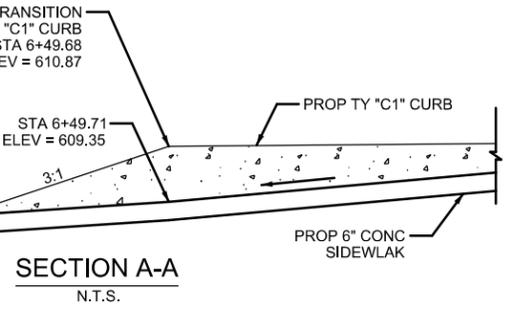
- NOTES:**
- CALL THE TEXAS STATE WIDE ONE CALL LOCATOR NUMBER 1-800-344-8377, 48 HOURS BEFORE BEGINNING ANY EXCAVATION.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING OPERATION OF ALL EXISTING UTILITIES AFFECTED BY PROPOSED CONSTRUCTION.
  - CAUTION: EXISTING UNDERGROUND UTILITY LINES ARE LOCATED IN PROJECT VICINITY. LOCATIONS SHOWN ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE TO FIELD LOCATE BOTH VERTICAL AND HORIZONTAL LOCATIONS OF ALL UTILITIES AND COORDINATE WITH UTILITY COMPANIES TO RE-LOCATE OR ADJUST UTILITIES THAT INTERFERE WITH PROPOSED IMPROVEMENTS. CONTRACTOR IS RESPONSIBLE TO CONFIRM THAT UTILITIES ARE IN OR OUT OF SERVICE. ALL CALL OUTS REFERENCE MLK 1 CENTERLINE UNLESS OTHERWISE NOTED.
  - CONTRACTOR SHALL NOTIFY ENGINEER IF ELEVATIONS SHOWN ON PLANS ARE DIFFERENT FROM FIELD CONDITIONS.
  - PLANE EXISTING SIDEWALK TO MATCH PROPOSED GRADE & CROSS SLOPES ON SIDEWALK TIE-INS. X-SLOPE SHALL NOT EXCEED 2%. TO BE CONSIDERED SUBSIDIARY TO ITEM NO 502.1 "CONCRETE SIDEWALKS".
  - CONTRACTOR TO REFERENCE TxDOT STANDARD TCP(2-2)-12 TRAFFIC CONTROL PLAN ONE-LANE TWO-WAY TRAFFIC CONTROL."



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NO	DATE	DESCRIPTION	DWG	CHK
REVISIONS				
TBPE FIRM REGISTRATION #312 300 EAST SONTERRA BLVD., SUITE 230 SAN ANTONIO, TEXAS 78258-3991 TEL (210) 798-1895 FAX (210) 798-1896				
<b>CITY OF SAN ANTONIO</b> DEPARTMENT OF TRANSPORTATION & CAPITAL IMPROVEMENTS MARTIN LUTHER KING PARK <b>SITE LAYOUT</b> (MONUMENT A)				
SHEET 1 OF 1				
PROJECT No. 40-00374		DATE: SEPT 2016		
DRWN BY: CC	DSGN BY: MGC	CHKD BY: JC	SHEET No. 51	

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CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES WHETHER PUBLIC OR PRIVATE, PRIOR TO CONSTRUCTION

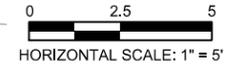
ADDENDUM 1 (09-20-2016) - REVISED SHEET TITLE, MONUMENT IDENTIFICATION FROM "B" TO "C" AND PLAN NOTE NO. 6

**LEGEND**

- EXISTING PROPERTY LINE
- PROPOSED ALIGNMENT
- PROPOSED GUTTER LINE
- PROPOSED CURVE DESIGNATION (CURVE X)
- PROPOSED SIDEWALK
- PROPOSED COLORED CONCRETE
- PROPOSED ROCK RIPRAP
- PROPOSED HYDROMULCH / SOD
- ORDINARY HIGH WATER MARK
- PROPOSED DIRECTIONAL FLOW ARROW
- EXISTING DIRECTIONAL FLOW ARROW
- PROPOSED DRAINAGE FLOW ARROW
- EXISTING OVERHEAD ELECTRIC (Ex. OHE)
- EXISTING WATER LINE (Ex. 36" W)
- EXISTING SANITARY SEWER LINE (Ex. 84" SS)
- PROPOSED DITCH ALIGNMENT
- EXISTING MANHOLE (MH)
- EXISTING LIGHT POLE (LP)
- EXISTING POWER POLE (PP)
- EXISTING TREE

**NOTES:**

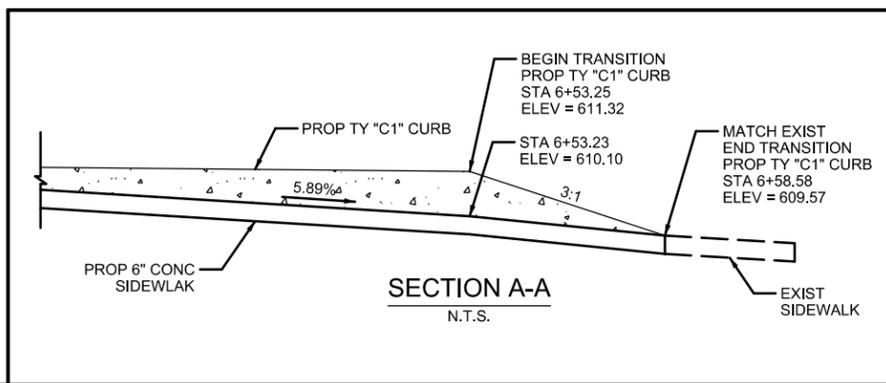
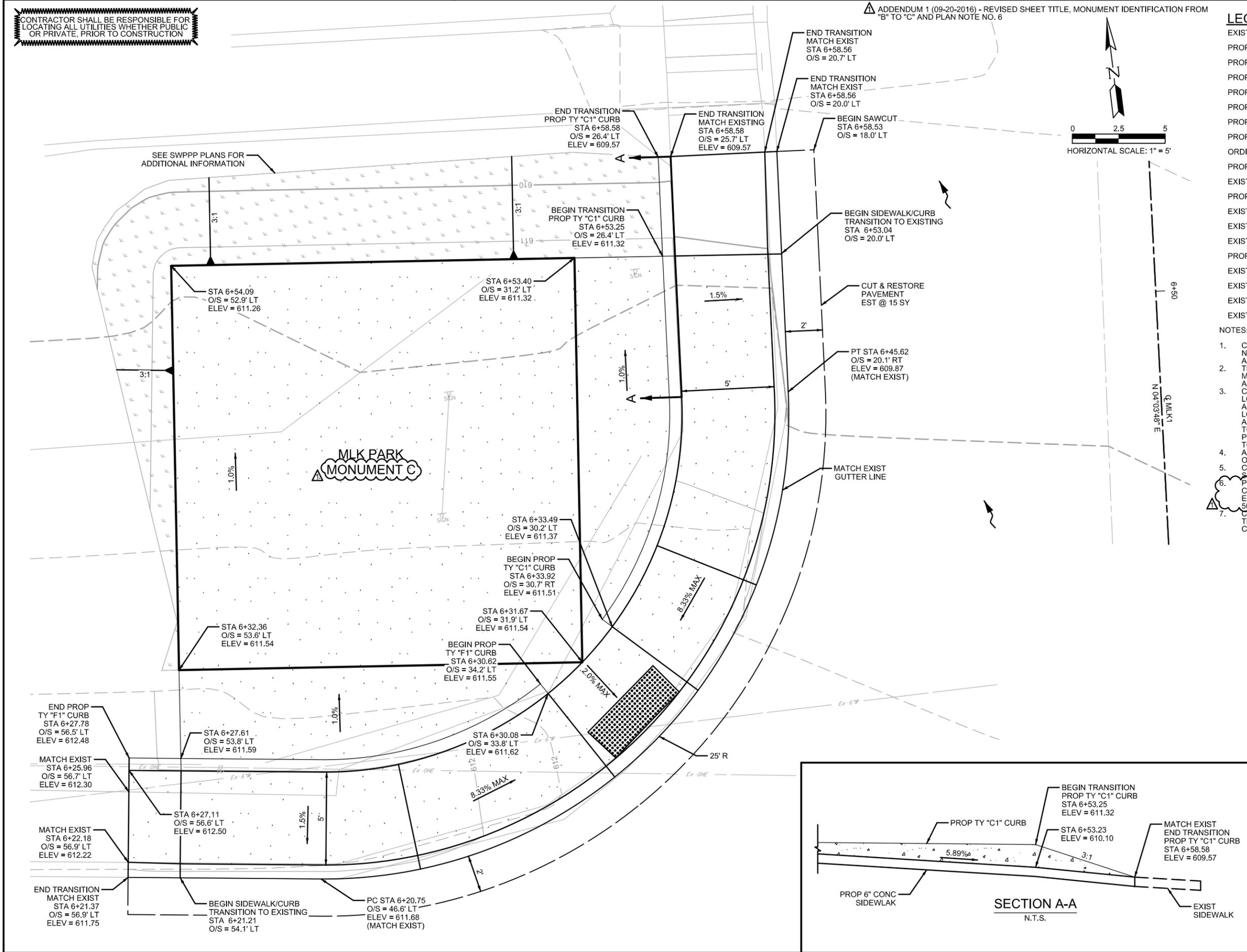
1. CALL THE TEXAS STATE WIDE ONE CALL LOCATOR NUMBER 1-800-344-8377, 48 HOURS BEFORE BEGINNING ANY EXCAVATION.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING OPERATION OF ALL EXISTING UTILITIES AFFECTED BY PROPOSED CONSTRUCTION.
3. CAUTION: EXISTING UNDERGROUND UTILITY LINES ARE LOCATED IN PROJECT VICINITY. LOCATIONS SHOWN ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE TO FIELD LOCATE BOTH VERTICAL AND HORIZONTAL LOCATIONS OF ALL UTILITIES AND COORDINATE WITH UTILITY COMPANIES TO RE-LOCATE OR ADJUST UTILITIES THAT INTERFERE WITH PROPOSED IMPROVEMENTS. CONTRACTOR IS RESPONSIBLE TO CONFIRM THAT UTILITIES ARE IN OR OUT OF SERVICE. ALL CALL OUTS REFERENCE MLK 1 CENTERLINE UNLESS OTHERWISE NOTED.
4. CONTRACTOR SHALL NOTIFY ENGINEER IF ELEVATIONS SHOWN ON PLANS ARE DIFFERENT FROM FIELD CONDITIONS.
5. PLANE EXISTING SIDEWALK TO MATCH PROPOSED GRADE & CROSS SLOPES ON SIDEWALK TIE-INS. X-SLOPE SHALL NOT EXCEED 2%. TO BE CONSIDERED SUBSIDIARY TO ITEM NO. 502.1 "CONCRETE SIDEWALKS".
6. CONTRACTOR TO REFERENCE TxDOT STANDARD TCP(2-2)-12 TRAFFIC CONTROL PLAN ONE-LANE TWO-WAY TRAFFIC CONTROL.



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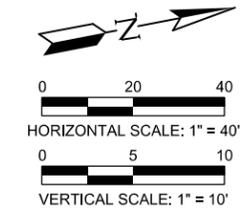
Design

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NO.	DATE	DESCRIPTION	DWG	CHK
REVISIONS				
TBPE FIRM REGISTRATION #312 300 EAST SONTERRA BLVD., SUITE 230 SAN ANTONIO, TEXAS 78258-3991 TEL (210) 798-1895 FAX (210) 798-1896				
<b>CITY OF SAN ANTONIO</b> DEPARTMENT OF TRANSPORTATION & CAPITAL IMPROVEMENTS				
MARTIN LUTHER KING PARK <b>SITE LAYOUT</b> (MONUMENT C)				
SHEET 1 OF 1				
PROJECT No. 40-00374		DATE: SEPT 2016		
DRWN BY: CC	DSGN BY: MGC	CHKD BY: JC	SHEET No. 52	



**LEGEND**

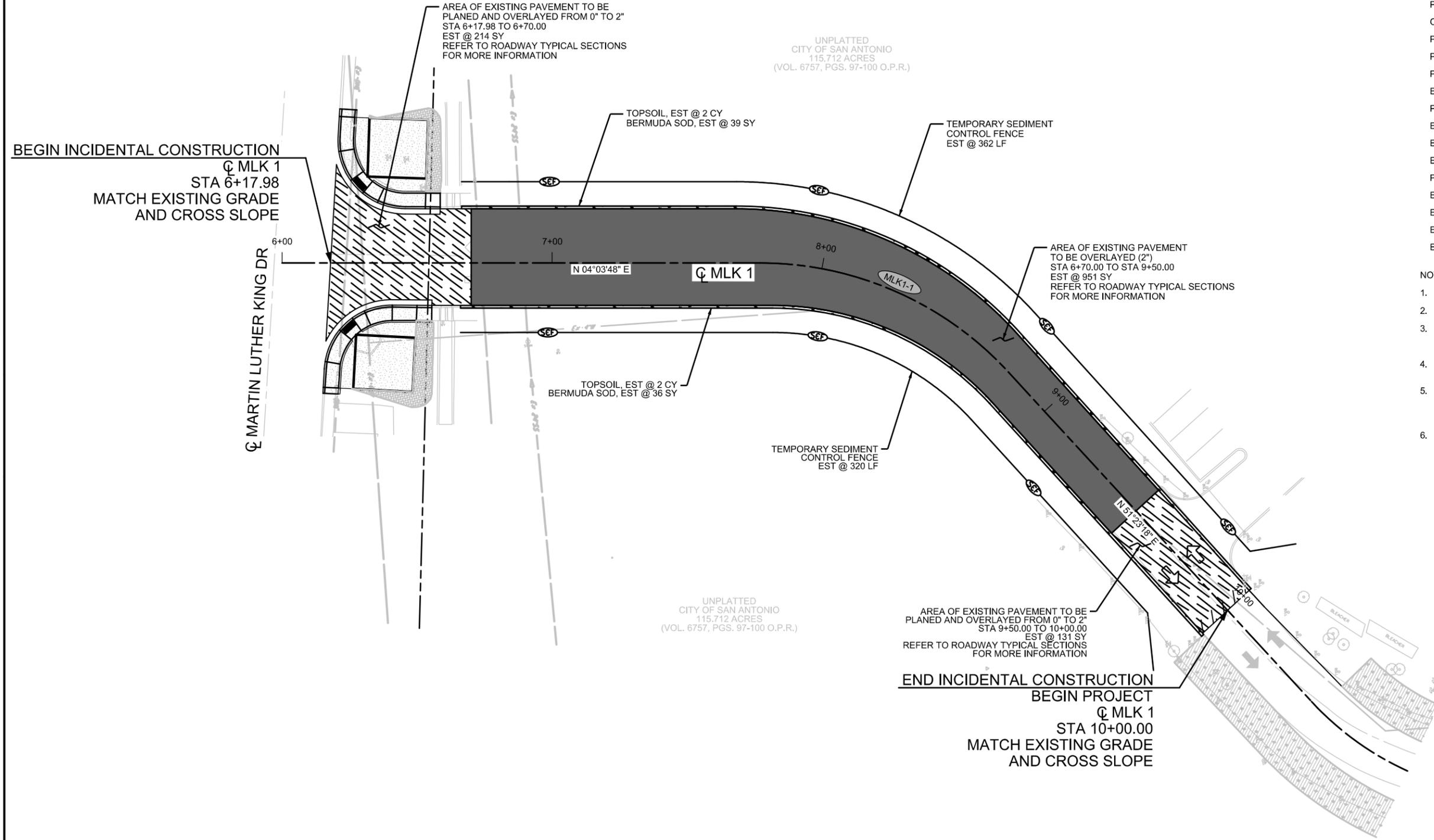
EXISTING PROPERTY LINE	---
PROPOSED ALIGNMENT	---
PROPOSED GUTTER LINE	---
PROPOSED CURVE DESIGNATION	(CURVE X)
PROPOSED SIDEWALK	---
PROPOSED COLORED CONCRETE	---
PROPOSED ROCK RIPRAP	---
PROPOSED HYDROMULCH / SOD	---
ORDINARY HIGH WATER MARK	---
PROPOSED PLANE AND OVERLAY	---
PROPOSED OVERLAY	---
PROPOSED DIRECTIONAL FLOW ARROW	→
EXISTING DIRECTIONAL FLOW ARROW	→
PROPOSED DRAINAGE ELECTRIC ARROW	→
EXISTING OVERHEAD ELECTRIC	Ex-OHE
EXISTING WATER LINE	Ex-36"W
EXISTING SANITARY SEWER LINE	Ex-84"SS
PROPOSED DITCH ALIGNMENT	→ ○ ○ ○
EXISTING MANHOLE	○MH
EXISTING LIGHT POLE	○LP
EXISTING POWER POLE	○PP
EXISTING TREE	○

- NOTES:**
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  - THE CONTRACTOR SHALL REFER TO HORIZONTAL DATA CONTROL SHEETS FOR CURVE AND DITCH INFORMATION. PLANE EXISTING SIDEWALK TO MATCH PROPOSED GRADE & CROSS SLOPES ON SIDEWALK TIE-INS SHALL NOT EXCEED 2%. TO BE CONSIDERED SUBSIDIARY TO ITEM NO 502.1 "CONCRETE SIDEWALKS".
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  - CALL THE TEXAS STATE WIDE ONE CALL LOCATOR NUMBER 1-800-344-8377, 48 HOURS BEFORE BEGINNING ANY EXCAVATION.



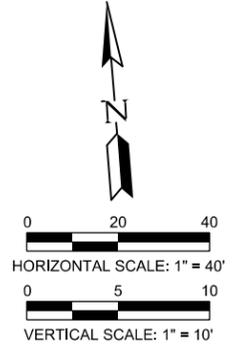
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NO.	DATE	DESCRIPTION	DWG	CHK
REVISIONS				
TBPE FIRM REGISTRATION #312 300 EAST SONTERRA BLVD., SUITE 230 SAN ANTONIO, TEXAS 78258-3991 TEL (210) 798-1895 FAX (210) 798-1896				
<b>CITY OF SAN ANTONIO</b> DEPARTMENT OF TRANSPORTATION & CAPITAL IMPROVEMENTS				
MARTIN LUTHER KING PARK <b>ADDITIVE ALTERNATIVE NO. 2</b> <b>MLK 1 STA 6+17.98 TO 10+00.00</b>				
SHEET 1 OF 1				
PROJECT No. 40-00374		DATE: SEPT 2016		
DRWN BY: CC	DCGN BY: MGC	CHKD BY: JC	SHEET No 52A	



CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES WHETHER PUBLIC OR PRIVATE, PRIOR TO CONSTRUCTION

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**LEGEND**

EXISTING PROPERTY LINE	
PROPOSED ALIGNMENT	
PROPOSED GUTTER LINE	
PROPOSED CURVE DESIGNATION	
PROPOSED SIDEWALK	
PROPOSED COLORED CONCRETE	
PROPOSED ROCK RIPRAP	
PROPOSED HYDROMULCH / SOD	
ORDINARY HIGH WATER MARK	
PROPOSED PLANE AND OVERLAY	
PROPOSED OVERLAY	
PROPOSED DIRECTIONAL FLOW ARROW	
EXISTING DIRECTIONAL FLOW ARROW	
PROPOSED DRAINAGE FLOW ARROW	
EXISTING OVERHEAD ELECTRIC	
EXISTING WATER LINE	
EXISTING SANITARY SEWER LINE	
PROPOSED DITCH ALIGNMENT	
EXISTING MANHOLE	
EXISTING LIGHT POLE	
EXISTING POWER POLE	
EXISTING TREE	

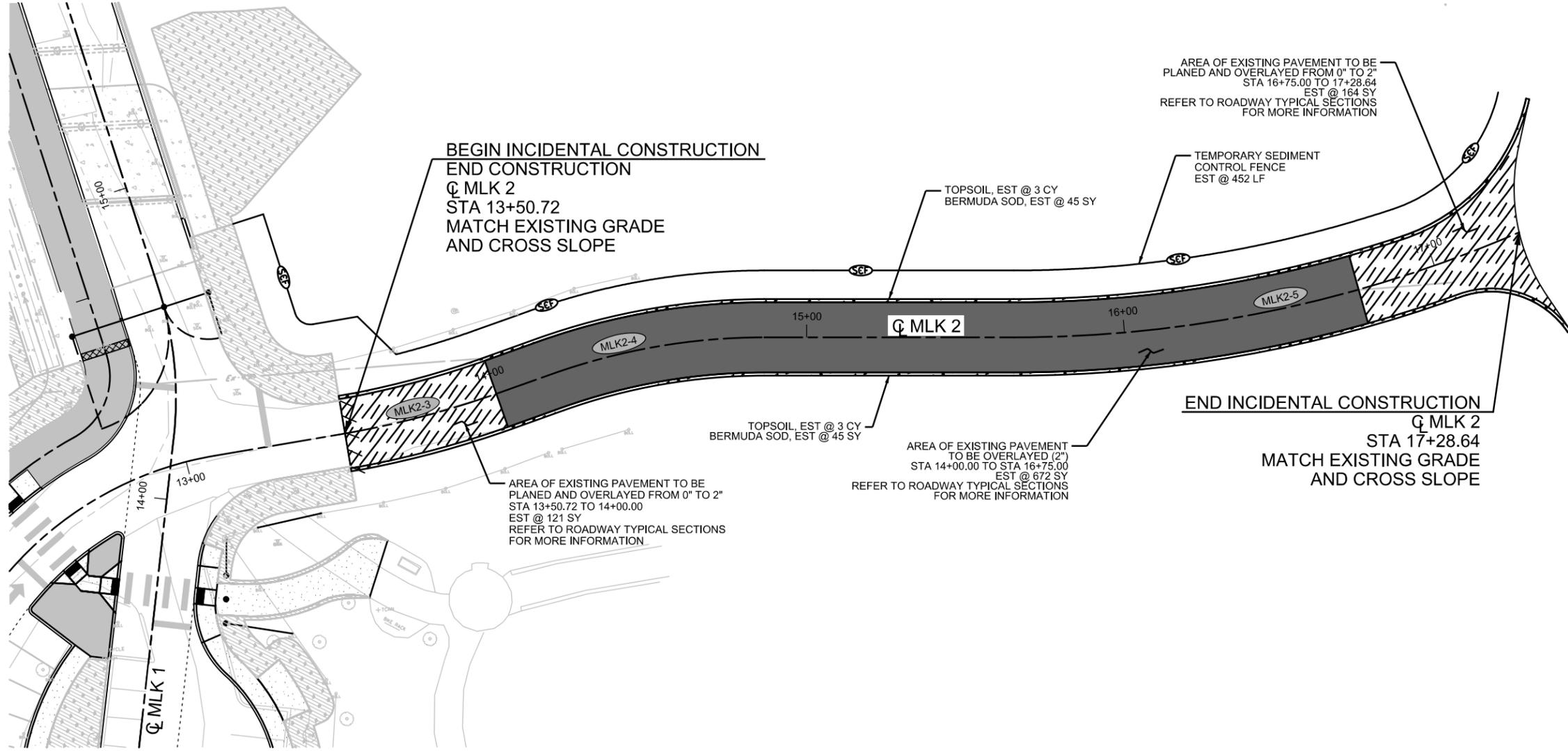
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  2. THE CONTRACTOR SHALL REFER TO HORIZONTAL DATA CONTROL SHEETS FOR CURVE AND DITCH INFORMATION.
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  6. CALL THE TEXAS STATE WIDE ONE CALL LOCATOR NUMBER 1-800-344-8377, 48 HOURS BEFORE BEGINNING ANY EXCAVATION.



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NO.	DATE	DESCRIPTION	DWG	CHK
REVISIONS				
TBPE FIRM REGISTRATION #312 300 EAST SONTERRA BLVD., SUITE 230 SAN ANTONIO, TEXAS 78258-3991 TEL (210) 798-1895 FAX (210) 798-1896				
<b>CITY OF SAN ANTONIO</b> DEPARTMENT OF TRANSPORTATION & CAPITAL IMPROVEMENTS MARTIN LUTHER KING PARK <b>ADDITIVE ALTERNATIVE NO. 3</b> <b>MLK 2 STA 13+50.72 TO 17+28.64</b>				
SHEET 1 OF 1				
PROJECT No. 40-00374		DATE: SEPT 2016		
DRWN BY: CC	DSGN BY: MGC	CHKD BY: JC	SHEET No 52B	

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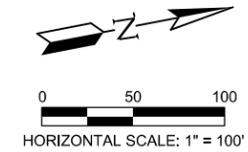


CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES WHETHER PUBLIC OR PRIVATE, PRIOR TO CONSTRUCTION

**RUNOFF COMPUTATIONS**

INLET	ACRES - DRAINED			RUNOFF						
	AREA (AC)	C	TOTAL CA	TIME OF CONCENTRATION T <sub>c</sub> (MIN)	INTENSITY 5 YR (IN/HR)	INTENSITY 25 YR (IN/HR)	INTENSITY 100 YR (IN/HR)	FLOW Q 5 YR (CFS)	FLOW Q 25 YR (CFS)	FLOW Q 100 YR (CFS)
DA-W1	2.616	0.486	1.271	23.40	4.335	5.700	7.287	5.51	7.25	9.26
DA-W2	0.316	0.881	0.278	6.80	7.465	9.849	12.454	2.08	2.74	3.47
DA-W3	1.515	0.478	0.724	11.80	6.009	7.905	10.675	4.35	5.72	7.73
DA-E1	0.266	0.960	0.255	8.80	6.740	8.880	11.582	1.72	2.27	2.96
DA-E2	0.533	0.611	0.326	11.60	6.060	7.973	10.740	1.97	2.60	3.50
DA-BR1	0.099	0.950	0.094	8.30	6.888	9.078	11.762	0.65	0.85	1.11
DA-BR2	0.200	0.950	0.190	8.30	6.909	9.106	11.788	1.31	1.73	2.24

ADDENDUM 1 (09-20-2016) - ADDED 25-YR AND 100-YR RAINFALL INTENSITIES AND UPDATED ALL FLOWS



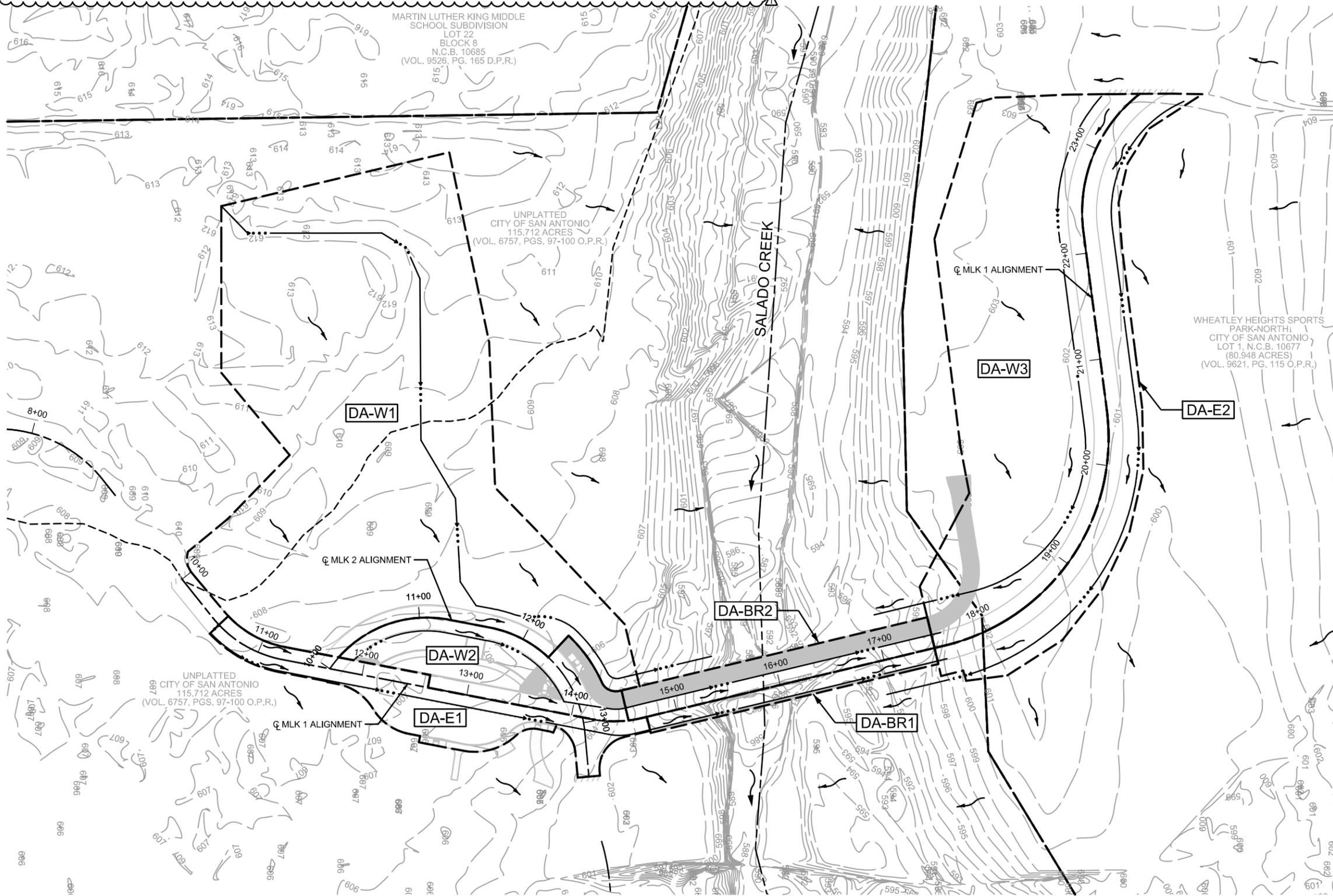
**LEGEND**

- DRAINAGE AREA DA-E1
- WATERSHED BOUNDARIES
- EXISTING PARCEL
- EXISTING 100-YR FLOODPLAIN
- SALADO CREEK
- 1' CONTOURS
- T<sub>c</sub> FLOW PATH
- RUNOFF FLOW DIRECTION

**NOTES:**

1. RATIONAL METHOD UTILIZED TO COMPUTE RUNOFF.
2. SEE "HYDROLOGIC COMPUTATION (INTERNAL DRAINAGE)" SHEETS FOR TIME OF CONCENTRATION AND RUNOFF COEFFICIENT COMPUTATIONS.
3. ACCORDING TO THE HYDRAULIC MODEL, THE 10-YEAR FLOODPLAIN WATER SURFACE ELEVATION DISPLAYS PROPOSED BRIDGE BEING INUNDATED. THEREFORE, DITCHES WERE DESIGNED FOR A LOWER STORM EVENT (5-YR).

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NO	DATE	DESCRIPTION	DWG	CHK
REVISIONS				
TBPE FIRM REGISTRATION #312 300 EAST SONTERRA BLVD., SUITE 230 SAN ANTONIO, TEXAS 78258-3991 TEL (210) 798-1895 FAX (210) 798-1896				
<b>CITY OF SAN ANTONIO</b> DEPARTMENT OF TRANSPORTATION & CAPITAL IMPROVEMENTS				
MARTIN LUTHER KING PARK <b>DRAINAGE AREA MAP</b>				
SHEET 1 OF 1				
--		PROJECT No. 40-00374	DATE: SEPT 2016	
DRWN BY: CC	DSGN BY: MGC	CHKD BY: JC	SHEET No. 67	

Study Point ID		DA-W1	
Area (Ac.)	2.616		
Flow Length (L <sub>sh</sub> ), ft	300		
Elevation change, ft	4.78		
Land Slope, S <sub>sh</sub> , ft/ft	0.016		
2-Yr 24-Hr Rainfall P <sub>2</sub> (in)	4.44		
Roughness n <sub>oil</sub> (TR 55 Manual Table 3-1)	0.15		
T <sub>sh</sub> sheet, hr	0.33		
$\frac{K^{0.5} S_{sh}^{0.5} P_2^{0.5}}{n_{oil}^{0.5} L_{sh}^{0.5}} = 0.97$			
Flow length (L <sub>sc</sub> ), ft		489.06	
Elevation change, ft		10.93	
Watercourse slope S <sub>sc</sub> , ft/ft		0.022	
K (16.13-unpaved, 20.32-paved)		16.13	
T <sub>sc</sub> , hr		0.06	
$\frac{K^{0.5} S_{sc}^{0.5}}{T_{sc}^{0.5}} = 3.7$			
Cross sec. area, a ft <sup>2</sup>		N/A	
Wetted perimeter, p <sub>w</sub> ft		N/A	
Hydraulic radius, r		N/A	
Elevation change, ft		N/A	
Channel slope, s ft/ft		N/A	
Manning's n		N/A	
Velocity, v ft/s		N/A	
Flow length (channel), ft		N/A	
T <sub>t</sub> channel hr		N/A	
$\left( \frac{1.49 S_{sc}^{1.49} R^{4.73}}{1.49 n^{1.49}} \right)^{0.375} = 0.97$			
<b>Tc (min)</b>		<b>23.4</b>	
Storm Event	C	I	Q (CFS)
2-yr	0.486	3.705	4.71
5-yr	0.486	4.335	5.51
10-yr	0.486	4.917	6.25
25-yr	0.486	5.700	7.24
50-yr	0.486	6.478	8.23
100-yr	0.486	7.287	9.26
<b>Composite C-Value</b>			
Description	Acreeage (ac.)	C-Value	
Undeveloped Area (Range: Grass Cover)	2.099	0.41	
Pavement (Slope 1-3%)	0.066	0.96	
School Site (Slope 1-3%)	0.451	0.77	
Composite Total	2.616	0.486	

Study Point ID		DA-BR1	
Area (Ac.)	0.099		
Flow Length (L <sub>sh</sub> ), ft	12.50		
Elevation change, ft	0.253		
Land Slope, S <sub>sh</sub> , ft/ft	0.020		
2-Yr 24-Hr Rainfall P <sub>2</sub> (in)	4.44		
Roughness n <sub>oil</sub> (TR 55 Manual Table 3-1)	0.01		
T <sub>sh</sub> sheet, hr	0.08		
$\frac{K^{0.5} S_{sh}^{0.5} P_2^{0.5}}{n_{oil}^{0.5} L_{sh}^{0.5}} = 0.97$			
Flow length (L <sub>sc</sub> ), ft		286.36	
Elevation change, ft		2.26	
Watercourse slope S <sub>sc</sub> , ft/ft		0.008	
K (16.13-unpaved, 20.32-paved)		16.13	
T <sub>sc</sub> , hr		0.06	
$\frac{K^{0.5} S_{sc}^{0.5}}{T_{sc}^{0.5}} = 3.7$			
Cross sec. area, a ft <sup>2</sup>		N/A	
Wetted perimeter, p <sub>w</sub> ft		N/A	
Hydraulic radius, r		N/A	
Elevation change, ft		N/A	
Channel slope, s ft/ft		N/A	
Manning's n		N/A	
Velocity, v ft/s		N/A	
Flow length (channel), ft		N/A	
T <sub>t</sub> channel hr		N/A	
$\left( \frac{1.49 S_{sc}^{1.49} R^{4.73}}{1.49 n^{1.49}} \right)^{0.375} = 0.97$			
<b>Tc (min)</b>		<b>8.3</b>	
Storm Event	C	I	Q (CFS)
2-yr	0.950	5.847	0.55
5-yr	0.950	6.888	0.65
10-yr	0.950	7.869	0.74
25-yr	0.950	9.078	0.85
50-yr	0.950	10.361	0.97
100-yr	0.950	11.762	1.10
<b>Composite C-Value</b>			
Description	Acreeage (ac.)	C-Value	
Undeveloped Area	0.000	0.44	
Pavement	0.099	0.95	
Composite Total	0.099	0.950	

Study Point ID		DA-W2	
Area (Ac.)	0.316		
Flow Length (L <sub>sh</sub> ), ft	14.37		
Elevation change, ft	0.015		
Land Slope, S <sub>sh</sub> , ft/ft	0.001		
2-Yr 24-Hr Rainfall P <sub>2</sub> (in)	4.44		
Roughness n <sub>oil</sub> (TR 55 Manual Table 3-1)	0.01		
T <sub>sh</sub> sheet, hr	0.08		
$\frac{K^{0.5} S_{sh}^{0.5} P_2^{0.5}}{n_{oil}^{0.5} L_{sh}^{0.5}} = 0.97$			
Flow length (L <sub>sc</sub> ), ft		287.18	
Elevation change, ft		5.07	
Watercourse slope S <sub>sc</sub> , ft/ft		0.018	
K (16.13-unpaved, 20.32-paved)		20.32	
T <sub>sc</sub> , hr		0.03	
$\frac{K^{0.5} S_{sc}^{0.5}}{T_{sc}^{0.5}} = 3.7$			
Cross sec. area, a ft <sup>2</sup>		N/A	
Wetted perimeter, p <sub>w</sub> ft		N/A	
Hydraulic radius, r		N/A	
Elevation change, ft		N/A	
Channel slope, s ft/ft		N/A	
Manning's n		N/A	
Velocity, v ft/s		N/A	
Flow length (channel), ft		N/A	
T <sub>t</sub> channel hr		N/A	
$\left( \frac{1.49 S_{sc}^{1.49} R^{4.73}}{1.49 n^{1.49}} \right)^{0.375} = 0.97$			
<b>Tc (min)</b>		<b>6.8</b>	
Storm Event	C	I	Q (CFS)
2-yr	0.881	6.362	1.77
5-yr	0.881	7.465	2.07
10-yr	0.881	8.462	2.35
25-yr	0.881	9.849	2.74
50-yr	0.881	11.155	3.10
100-yr	0.881	12.454	3.46
<b>Composite C-Value</b>			
Description	Acreeage (ac.)	C-Value	
Undeveloped Area (Range: Grass Cover)	0.046	0.41	
Pavement (Slope 1-3%)	0.270	0.96	
Composite Total	0.316	0.881	

Study Point ID		DA-BR2	
Area (Ac.)	0.200		
Flow Length (L <sub>sh</sub> ), ft	12.00		
Elevation change, ft	0.19		
Land Slope, S <sub>sh</sub> , ft/ft	0.016		
2-Yr 24-Hr Rainfall P <sub>2</sub> (in)	4.44		
Roughness n <sub>oil</sub> (TR 55 Manual Table 3-1)	0.01		
T <sub>sh</sub> sheet, hr	0.08		
$\frac{K^{0.5} S_{sh}^{0.5} P_2^{0.5}}{n_{oil}^{0.5} L_{sh}^{0.5}} = 0.97$			
Flow length (L <sub>sc</sub> ), ft		303.85	
Elevation change, ft		2.81	
Watercourse slope S <sub>sc</sub> , ft/ft		0.009	
K (16.13-unpaved, 20.32-paved)		16.13	
T <sub>sc</sub> , hr		0.05	
$\frac{K^{0.5} S_{sc}^{0.5}}{T_{sc}^{0.5}} = 3.7$			
Cross sec. area, a ft <sup>2</sup>		N/A	
Wetted perimeter, p <sub>w</sub> ft		N/A	
Hydraulic radius, r		N/A	
Elevation change, ft		N/A	
Channel slope, s ft/ft		N/A	
Manning's n		N/A	
Velocity, v ft/s		N/A	
Flow length (channel), ft		N/A	
T <sub>t</sub> channel hr		N/A	
$\left( \frac{1.49 S_{sc}^{1.49} R^{4.73}}{1.49 n^{1.49}} \right)^{0.375} = 0.97$			
<b>Tc (min)</b>		<b>8.3</b>	
Storm Event	C	I	Q (CFS)
2-yr	0.950	5.866	1.11
5-yr	0.950	6.909	1.31
10-yr	0.950	7.891	1.50
25-yr	0.950	9.106	1.73
50-yr	0.950	10.390	1.97
100-yr	0.950	11.788	2.24
<b>Composite C-Value</b>			
Description	Acreeage (ac.)	C-Value	
Undeveloped Area	0.000	0.44	
Pavement	0.200	0.95	
Composite Total	0.200	0.950	

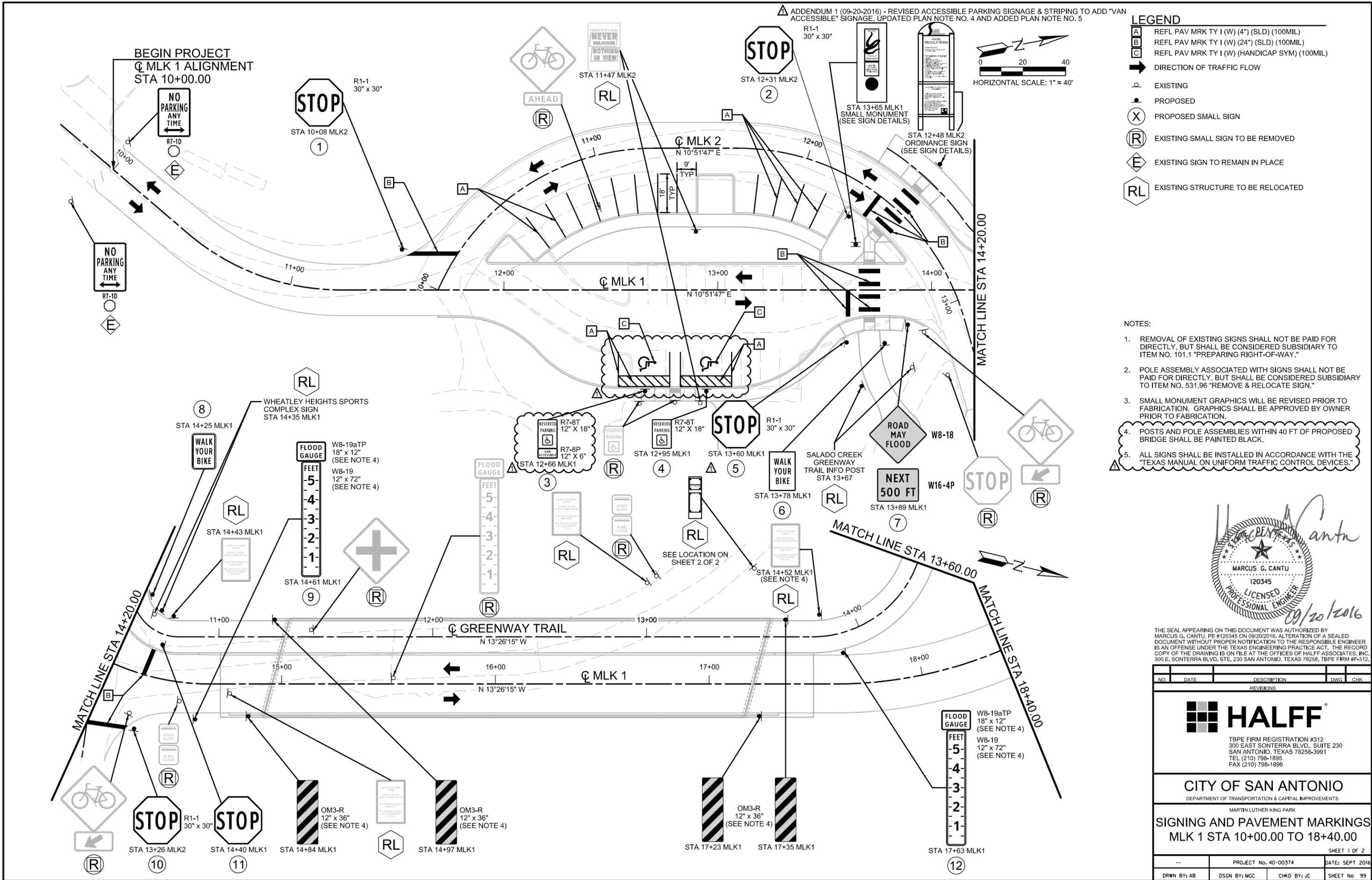
Study Point ID		DA-W3	
Area (Ac.)	1.515		
Flow Length (L <sub>sh</sub> ), ft	21.00		
Elevation change, ft	0.40		
Land Slope, S <sub>sh</sub> , ft/ft	0.02		
2-Yr 24-Hr Rainfall P <sub>2</sub> (in)	4.44		
Roughness n <sub>oil</sub> (TR 55 Manual Table 3-1)	0.40		
T <sub>sh</sub> sheet, hr	0.09		
$\frac{K^{0.5} S_{sh}^{0.5} P_2^{0.5}}{n_{oil}^{0.5} L_{sh}^{0.5}} = 0.97$			
Flow length (L <sub>sc</sub> ), ft		619.73	
Elevation change, ft		6.01	
Watercourse slope S <sub>sc</sub> , ft/ft		0.010	
K (16.13-unpaved, 20.32-paved)		16.13	
T <sub>sc</sub> , hr		0.11	
$\frac{K^{0.5} S_{sc}^{0.5}}{T_{sc}^{0.5}} = 3.7$			
Cross sec. area, a ft <sup>2</sup>		N/A	
Wetted perimeter, p <sub>w</sub> ft		N/A	
Hydraulic radius, r		N/A	
Elevation change, ft		N/A	
Channel slope, s ft/ft		N/A	
Manning's n		N/A	
Velocity, v ft/s		N/A	
Flow length (channel), ft		N/A	
T <sub>t</sub> channel hr		N/A	
$\left( \frac{1.49 S_{sc}^{1.49} R^{4.73}}{1.49 n^{1.49}} \right)^{0.375} = 0.97$			
<b>Tc (min)</b>		<b>11.8</b>	
Storm Event	C	I	Q (CFS)
2-yr	0.478	5.067	3.67
5-yr	0.478	6.009	4.35
10-yr	0.478	6.956	5.04
25-yr	0.478	7.905	5.73
50-yr	0.478	9.140	6.62
100-yr	0.478	10.675	7.74
<b>Composite C-Value</b>			
Description	Acreeage (ac.)	C-Value	
Undeveloped Area (Range: Grass Cover)	1.326	0.41	
Pavement (Slope 1-3%)	0.189	0.96	
Composite Total	1.515	0.478	

Study Point ID		DA-E1	
Area (Ac.)	0.266		
Flow Length (L <sub>sh</sub> ), ft	23.00		
Elevation change, ft	0.46		
Land Slope, S <sub>sh</sub> , ft/ft	0.020		
2-Yr 24-Hr Rainfall P <sub>2</sub> (in)	4.44		
Roughness n <sub>oil</sub> (TR 55 Manual Table 3-1)	0.01		
T <sub>sh</sub> sheet, hr	0.08		
$\frac{K^{0.5} S_{sh}^{0.5} P_2^{0.5}}{n_{oil}^{0.5} L_{sh}^{0.5}} = 0.97$			
Flow length (L <sub>sc</sub> ), ft		428.74	
Elevation change, ft		5.8	
Watercourse slope S <sub>sc</sub> , ft/ft		0.014	
K (16.13-unpaved, 20.32-paved)		16.13	
T <sub>sc</sub> , hr		0.063	
$\frac{K^{0.5} S_{sc}^{0.5}}{T_{sc}^{0.5}} = 3.7$			
Cross sec. area, a ft <sup>2</sup>		N/A	
Wetted perimeter, p <sub>w</sub> ft		N/A	
Hydraulic radius, r		N/A	
Elevation change, ft		N/A	
Channel slope, s ft/ft		N/A	
Manning's n		N/A	
Velocity, v ft/s		N/A	
Flow length (channel), ft		N/A	
T <sub>t</sub> channel hr		N/A	
$\left( \frac{1.49 S_{sc}^{1.49} R^{4.73}}{1.49 n^{1.49}} \right)^{0.375} = 0.97$			
<b>Tc (min)</b>		<b>8.8</b>	
Storm Event	C	I	Q (CFS)
2-yr	0.960	5.715	1.46
5-yr	0.960	6.740	1.72
10-yr	0.960	7.716	1.97
25-yr	0.960	8.880	2.26
50-yr	0.960	10.156	2.59
100-yr	0.960	11.582	2.95
<b>Composite C-Value</b>			
Description	Acreeage (ac.)	C-Value	
Undeveloped Area	0.000	0.47	
Pavement	0.266	0.96	
Composite Total	0.266	0.960	

Study Point ID		DA-E2	
Area (Ac.)	0.533		
Flow Length (L <sub>sh</sub> ), ft	4.00		
Elevation change, ft	0.20		
Land Slope, S <sub>sh</sub> , ft/ft	0.05		
2-Yr 24-Hr Rainfall P <sub>2</sub> (in)	4.44		
Roughness n <sub>oil</sub> (TR 55 Manual Table 3-1)	0.40		
T <sub>sh</sub> sheet, hr	0.08		
$\frac{K^{0.5} S_{sh}^{0.5} P_2^{0.5}}{n_{oil}^{0.5} L_{sh}^{0.5}} = 0.97$			
Flow length (L <sub>sc</sub> ), ft		716.3	
Elevation change, ft		9.06	
Watercourse slope S <sub>sc</sub> , ft/ft		0.013	
K (16.13-unpaved, 20.32-paved)		16.13	
T <sub>sc</sub> , hr		0.11	
$\frac{K^{0.5} S_{sc}^{0.5}}{T_{sc}^{0.5}} = 3.7$			
Cross sec. area, a ft <sup>2</sup>		N/A	
Wetted perimeter, p <sub>w</sub> ft		N/A	
Hydraulic radius, r		N/A	
Elevation change, ft		N/A	
Channel slope, s ft/ft		N/A	
Manning's n		N/A	
Velocity, v ft/s		N/A	
Flow length (channel), ft		N/A	
T <sub>t</sub> channel hr		N/A	
$\left( \frac{1.49 S_{sc}^{1.49} R^{4.73}}{1.49 n^{1.49}} \right)^{0.375} = 0.97$			
<b>Tc (min)</b>		<b>11.6</b>	
Storm Event	C	I	Q (CFS)
2-yr	0.611	5.112	1.67
5-yr	0.611	6.060	1.98
10-yr	0.611	7.009	2.29
25-yr	0.611	7.973	2.60
50-yr	0.611	9.211	3.00
100-yr	0.611	10.740	3.50
<b>Composite C-Value</b>			
Description	Acreeage (ac.)	C-Value	
Undeveloped Area (Range: Grass Cover)	0.338	0.41	
Pavement (Slope 1-3%)	0.195	0.96	
Composite Total	0.533	0.611	



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ADDENDUM 1 (09-20-2016) - REVISED ACCESSIBLE PARKING SIGNAGE & STRIPING TO ADD "VAN ACCESSIBLE" SIGNAGE. UPDATED PLAN NOTE NO. 4 AND ADDED PLAN NOTE NO. 5

**LEGEND**

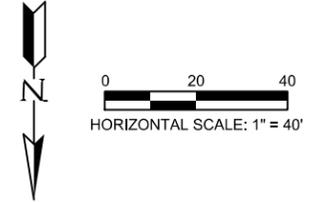
- A REFL PAV MRK TY I (W) (4") (SLD) (100MIL)
- B REFL PAV MRK TY I (W) (24") (SLD) (100MIL)
- C REFL PAV MRK TY I (W) (HANDICAP SYM) (100MIL)
- DIRECTION OF TRAFFIC FLOW
- ⊙ EXISTING
- ⊙ PROPOSED
- X PROPOSED SMALL SIGN
- (R) EXISTING SMALL SIGN TO BE REMOVED
- (E) EXISTING SIGN TO REMAIN IN PLACE
- RL EXISTING STRUCTURE TO BE RELOCATED

- NOTES:**
- REMOVAL OF EXISTING SIGNS SHALL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED SUBSIDIARY TO ITEM NO. 101.1 "PREPARING RIGHT-OF-WAY."
  - POLE ASSEMBLY ASSOCIATED WITH SIGNS SHALL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED SUBSIDIARY TO ITEM NO. 531.96 "REMOVE & RELOCATE SIGN."
  - SMALL MONUMENT GRAPHICS WILL BE REVISED PRIOR TO FABRICATION. GRAPHICS SHALL BE APPROVED BY OWNER PRIOR TO FABRICATION.
  - POSTS AND POLE ASSEMBLIES WITHIN 40 FT OF PROPOSED BRIDGE SHALL BE PAINTED BLACK.
  - ALL SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES."



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NO.	DATE	DESCRIPTION	DWG	CHK
REVISIONS				
<b>HALFF</b>				
TBPE FIRM REGISTRATION #312 300 EAST SONTERRA BLVD., SUITE 230 SAN ANTONIO, TEXAS 78258-3991 TEL (210) 798-1895 FAX (210) 798-1896				
<b>CITY OF SAN ANTONIO</b> DEPARTMENT OF TRANSPORTATION & CAPITAL IMPROVEMENTS MARTIN LUTHER KING PARK				
<b>SIGNING AND PAVEMENT MARKINGS</b> <b>MLK 1 STA 10+00.00 TO 18+40.00</b>				
SHEET 1 OF 2				
PROJECT No. 40-00374		DATE: SEPT 2016		
DRWN BY: AB	DSGN BY: MGC	CHKD BY: JC	SHEET No. 99	



- LEGEND**
- A REFL PAV MRK TY I (W) (4") (SLD) (100MIL)
  - B REFL PAV MRK TY I (W) (24") (SLD) (100MIL)
  - C REFL PAV MRK TY I (W) (HANDICAP SYM) (100MIL)
  - DIRECTION OF TRAFFIC FLOW
  - EXISTING
  - PROPOSED
  - X PROPOSED SMALL SIGN
  - R EXISTING SMALL SIGN TO BE REMOVED
  - E EXISTING SIGN TO REMAIN IN PLACE
  - RL EXISTING STRUCTURE TO BE RELOCATED

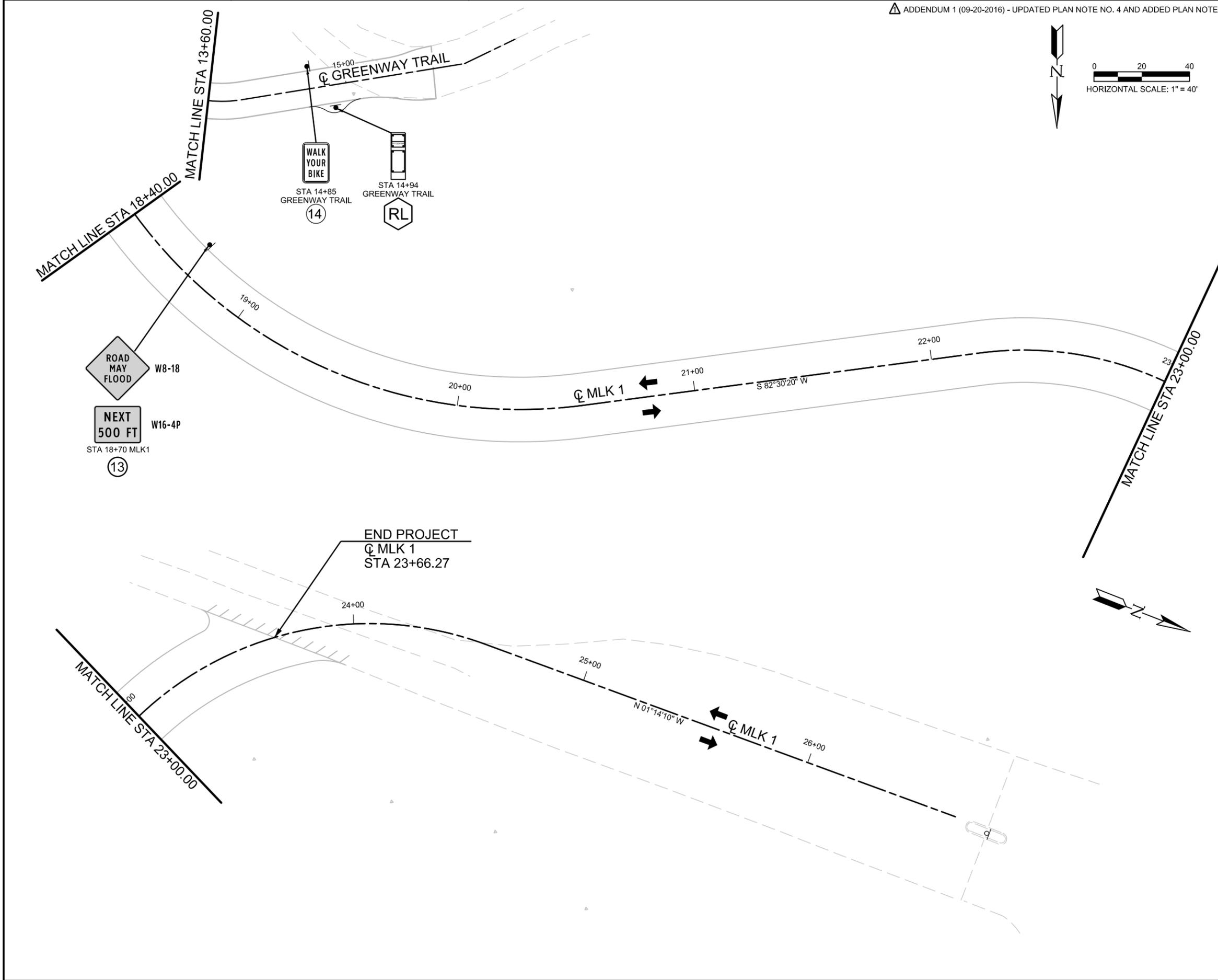
- NOTES:**
1. REMOVAL OF EXISTING SIGNS SHALL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED SUBSIDIARY TO ITEM NO. 101.1 "PREPARING RIGHT-OF-WAY."
  2. POLE ASSEMBLY ASSOCIATED WITH SIGNS SHALL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED SUBSIDIARY TO ITEM NO. 531.96 "REMOVE & RELOCATE SIGN."
  3. SMALL MONUMENT GRAPHICS WILL BE REVISED PRIOR TO FABRICATION. GRAPHICS SHALL BE APPROVED BY OWNER PRIOR TO FABRICATION.
  4. POSTS AND POLE ASSEMBLIES WITHIN 40 FT OF PROPOSED BRIDGE SHALL BE PAINTED BLACK.
  5. ALL SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES."

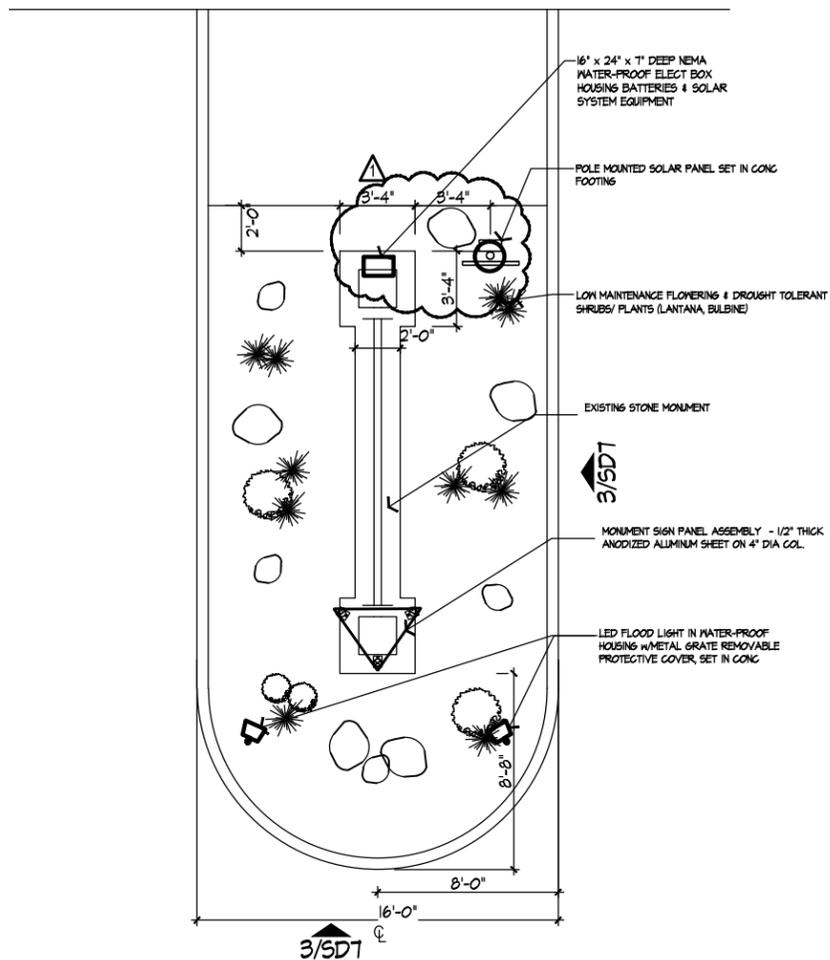


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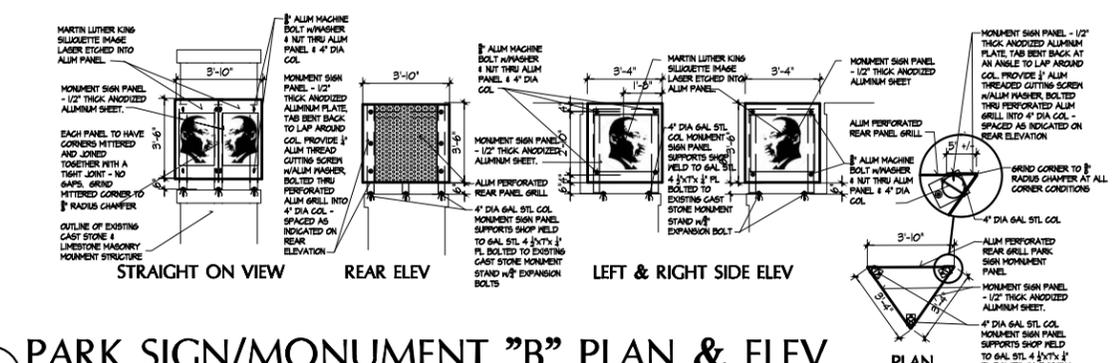
NO.	DATE	DESCRIPTION	DWG	CHK
REVISIONS				
<b>HALFF</b> TBPE FIRM REGISTRATION #312 300 EAST SONTERRA BLVD., SUITE 230 SAN ANTONIO, TEXAS 78258-3991 TEL (210) 798-1895 FAX (210) 798-1896				
<b>CITY OF SAN ANTONIO</b> DEPARTMENT OF TRANSPORTATION & CAPITAL IMPROVEMENTS MARTIN LUTHER KING PARK				
<b>SIGNING AND PAVEMENT MARKINGS</b> MLK 1 STA 18+40.00 TO 23+66.27				
SHEET 2 OF 2				
PROJECT No. 40-00374		DATE: SEPT 2016		
DRWN BY: AB	DSGN BY: MGC	CHKD BY: JC	SHEET No. 100	

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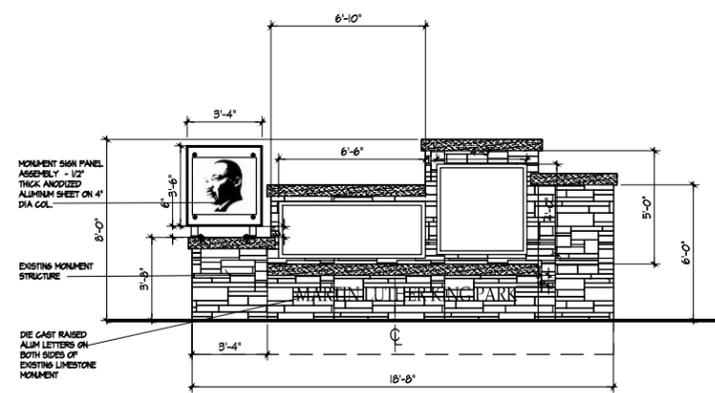
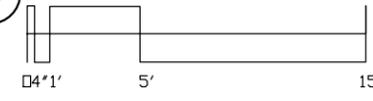




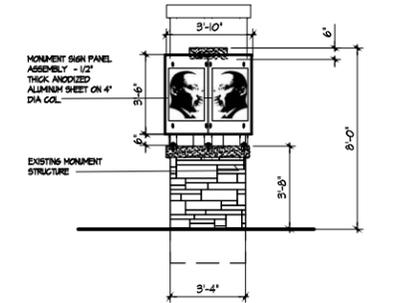
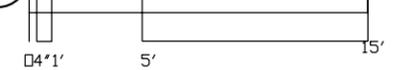
1 MONUMENT "B" SITE PLAN



4 PARK SIGN/MONUMENT "B" PLAN & ELEV



3 SIDE ELEVATION



2 FRONT ELEVATION



CONTRACTOR RESPONSIBLE FOR FACILITATING AND APPLYING FOR SAN ANTONIO SIGN PERMITS  
 SOLAR PANEL AND POLE WITH BATTERY RELOCATED 09/15/2016



TBPE FIRM REGISTRATION #312  
 300 EAST SONTERRA BLVD., SUITE 230  
 SAN ANTONIO, TEXAS 78258-3991  
 TEL (210) 798-1895  
 FAX (210) 798-1896



Dillard Architect Group  
 788 Rigby Avenue  
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CITY OF SAN ANTONIO  
 DEPARTMENT OF TRANSPORTATION & CAPITAL IMPROVEMENTS

MLK PARK - MONUMENT "B"  
 PLAN, ELEV & DETAILS

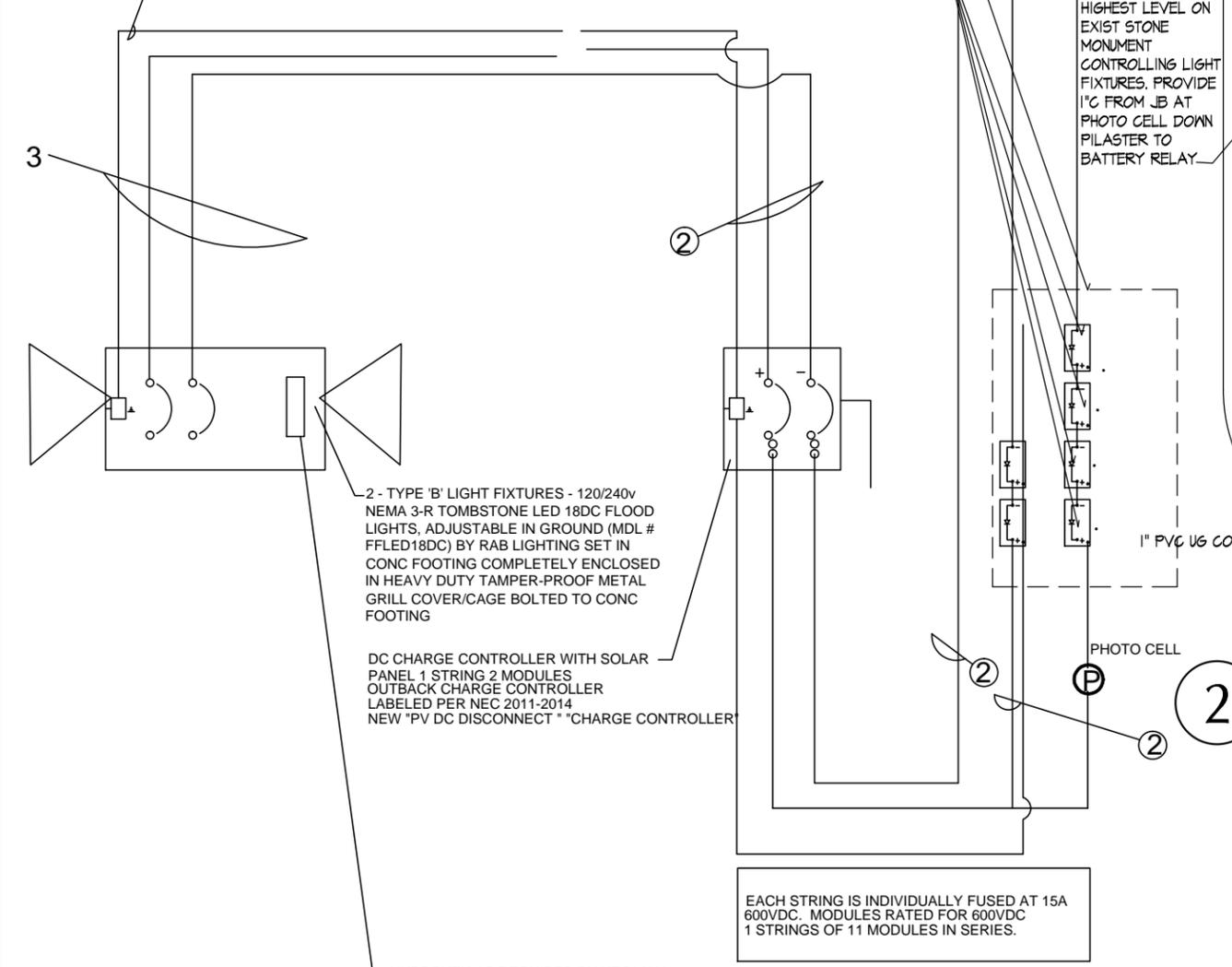
DATE: 7/21/16	PROJECT No. 40-00374	SHEET No 107
DRAWN BY: JS	DESIGNER: PCD	CHKD BY: PCD
		SHEET: 6 of 11



Uninterrupted #6 Bare Copper Ground

BATTERY IS ENCLOSED IN NEMA 3-R CASING RATED FOR SEALED LEAD ACID BATTERIES.

DURACELL ULTRA/ TESLA SOLAR DOD 50%. 500 CYCLES PER BATTERY. 20AH. LENGTH: 7.1" WIDTH: 3" HEIGHT: 6.51" TESLA SOLAR CHARGE CONTROLLER.



2 - TYPE 'B' LIGHT FIXTURES - 120/240v NEMA 3-R TOMBSTONE LED 18DC FLOOD LIGHTS, ADJUSTABLE IN GROUND (MDL # FFLED18DC) BY RAB LIGHTING SET IN CONG FOOTING COMPLETELY ENCLOSED IN HEAVY DUTY TAMPER-PROOF METAL GRILL COVER/CAGE BOLTED TO CONG FOOTING

DC CHARGE CONTROLLER WITH SOLAR PANEL 1 STRING 2 MODULES OUTBACK CHARGE CONTROLLER LABELED PER NEC 2011-2014 NEW "PV DC DISCONNECT" "CHARGE CONTROLLER"

EACH STRING IS INDIVIDUALLY FUSED AT 15A 600VDC. MODULES RATED FOR 600VDC 1 STRINGS OF 11 MODULES IN SERIES.

UNBROKEN AS REQUIRED BY NEC/ AHJ. AS SHOWN OR MAY PASS THROUGH DISCONNECT NEUTRAL MAY LAND ON ISOLATED NEUTRAL BAR/ POLARIS

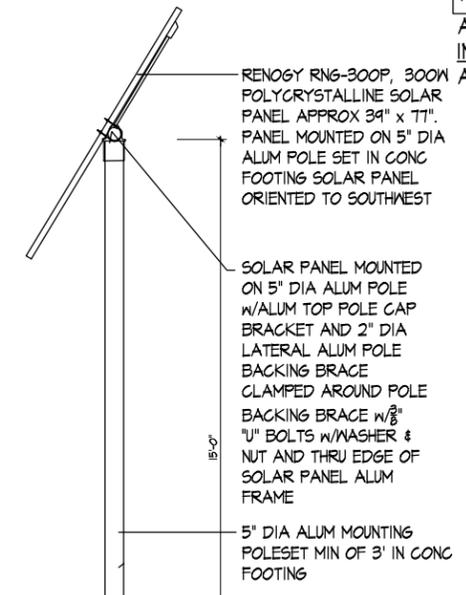
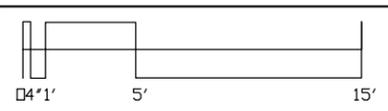
RENOGY RNG-300P, 300W POLYCRYSTALLINE SOLAR PANEL MOUNTED ON 5" DIA POLE SET IN CONG FOOTING. SOLAR PANEL ORIENTED TO SOUTHWEST - SEE DET 3 THIS SHEET

16" x 24" x 7" DEEP NEMA WATER-PROOF ELECT BOX HOUSING BATTERIES & SOLAR SYSTEM EQUIPMENT

PHOTO-CELL MOUNTED AT HIGHEST LEVEL ON EXIST STONE MONUMENT CONTROLLING LIGHT FIXTURES. PROVIDE 1" CG FROM JB AT PHOTO CELL DOWN PILASTER TO BATTERY RELAY

2 - TYPE 'B' LIGHT FIXTURES - 120/240v NEMA 3-R TOMBSTONE LED 18DC FLOOD LIGHTS, ADJUSTABLE IN GROUND (MDL # FFLED18DC) BY RAB LIGHTING SET IN CONG FOOTING COMPLETELY ENCLOSED IN HEAVY DUTY TAMPER-PROOF METAL GRILL COVER/CAGE BOLTED TO CONG FOOTING

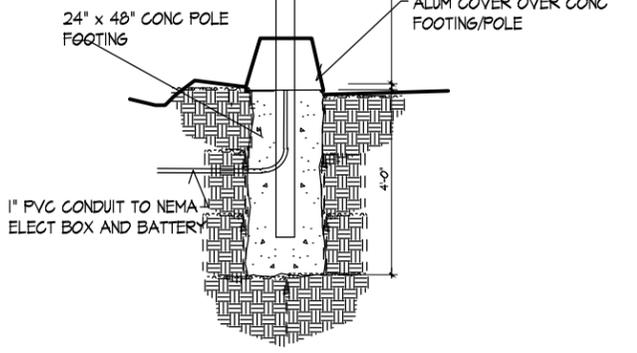
### MONUMENT "B" SITE ELEC PLAN



RENOGY RNG-300P, 300W POLYCRYSTALLINE SOLAR PANEL APPROX 39" x 77". PANEL MOUNTED ON 5" DIA ALUM POLE SET IN CONG FOOTING SOLAR PANEL ORIENTED TO SOUTHWEST

SOLAR PANEL MOUNTED ON 5" DIA ALUM POLE W/ALUM TOP POLE CAP BRACKET AND 2" DIA LATERAL ALUM POLE BACKING BRACE CLAMPED AROUND POLE BACKING BRACE W/ 3/8" "U" BOLTS W/WASHER & NUT AND THRU EDGE OF SOLAR PANEL ALUM FRAME

5" DIA ALUM MOUNTING POLESET MIN OF 3' IN CONG FOOTING



### SOLAR PANEL POLE MOUNT

**RENOGY RNG-300P**  
300W Polycrystalline Solar Panel

**Key Features:**

- High module conversion efficiency
- Top-rated ITC rating
- Quick and simple installation
- 10-year warranty on all materials
- Non-toxic and lead-free

**Electrical Data:**

Maximum Power (P <sub>max</sub> )	300W
Open Circuit Voltage (V <sub>oc</sub> )	41.5V
Short Circuit Current (I <sub>sc</sub> )	7.27A
Operating Voltage (V <sub>mp</sub> )	34.5V
Operating Current (I <sub>mp</sub> )	8.7A
Maximum System Voltage	600VDC
Maximum Power Point Tracking (MPPT) Efficiency	99.5%
Temperature Coefficient of P <sub>max</sub>	-0.45%/°C
Temperature Coefficient of V <sub>oc</sub>	-0.003%/°C
Temperature Coefficient of I <sub>sc</sub>	0.005%/°C

**Physical Data:**

Module Dimensions (L x W x H)	77" x 39" x 1.5"
Weight	11.5 lbs
Material	Aluminum Frame, Polycrystalline Silicon Cells, PET Backsheet
Warranty	10 Year Power Output, 25 Year Material

### SOLAR PNL CUT SHT SOLAR PNL SPEC SHT

CONTRACTOR RESPONSIBLE FOR FACILITATING AND APPLYING FOR SAN ANTONIO SIGN PERMITS

ALL SOLAR EQUIPMENT TO BE PROVIDED AND INSTALLED BY TESLA SOLAR OR ARCHITECT APPROVED EQUAL.

**FFLED18DC**

**Technical Specifications:**

Model	FFLED18DC
Power	18W
Voltage	120V/240V
Beam Angle	120°
Mounting	Adjustable in ground
Material	Die-cast aluminum
Finish	Black
Weight	1.5 lbs
Dimensions	4.5" x 4.5" x 4.5"

### LIGHT FIXTURE TYPE 'A' CUT SHT

SOLAR PANEL AND POLE WITH BATTERY RELOCATED 09/15/2016

## 1 SOLAR PV LIGHTING POWER SCHEMATIC PLAN

### WIRE SCHEDULE/ LEGEND

- ① Uninterrupted #6 Bare Copper Ground
- ② #6 AWG COPPER BATTERY JUMPERS. RATED FOR DIRECT OUTDOOR USE. RATED 600VDC ALL CONDUCTOR DC. IN EMT/PVC CONDUIT W/ LABELS PER NEC 2011 OR PER NEC AREA.

- NOTES:
- TYPICAL INTERACTIVE PV SYSTEM WIRING DIAGRAM PER NEC 2011 STANDARDS. EQUIPMENT WIRING RECOMMENDATIONS & INSTALLATION SHALL COMPLY WITH CPS ENERGY ELECTRIC SERVICE STANDARDS, LOCAL (AHJ) AND (NEC, UL, AND IEEE) CODES.
  - VERIFY WITH ONSITE FOREMAN FOR PULL BOX LOCATIONS. ALL CONDUIT TO BE SPECIFIED PER NEC 2011 LOCATIONS. RUNS VERIFY ALL HEIGHTS OF ALL PULL BOXES AND JUNCTION BOXES WITH ONSITE COORDINATOR.
  - AT POI, USE BACKFED RATED BREAKERS ONLY FOR LOADSIDE CONNECTIONS. PUT PV MAIN CB AT THE LOWEST SIDE OF UTILITY SUPPLY PER NEC 2011. LABEL BREAKER ACCORDINGLY AND LABEL PER FIGURE 2000.5 IN CPS ENERGY ELECTRIC STANDARDS.

**HALFF**

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dillardarchitectgrp.com

**CITY OF SAN ANTONIO**  
DEPARTMENT OF TRANSPORTATION & CAPITAL IMPROVEMENTS

**MLK PARK - MONUMENT "B"  
ELECT LTG & SOLAR PWR**

DATE: 7/21/16	PROJECT No. 40-00374	SHEET No 110
DRAWN BY: JS	DESIGNER: PCD	CHKD BY: PCD
		SHEET: 9 of 11

## List of Governing Specifications, Special Provisions and Special Specifications

All specifications applicable to this project are identified as follows:

2008 Standard Specifications for Public Works Construction, City of San Antonio, Texas with any revisions thereto, or 2014 TxDOT Standard Specifications for Construction of and Maintenance of Highways, Streets and Bridges with any revisions thereto where specified "TxDOT". The governing specifications for the project are not limited to those listed below. All cross references made in the items listed below (or in the construction documents) to other specification items are also part of this Contract.

### **SECTION 1**

**CITY OF SAN ANTONIO STANDARD SPECIFICATIONS (June 2008) AND SPECIAL PROVISIONS (MAY 2009, FEBRUARY 2010, June 2010 and November 2013)** Note that the referenced specifications 100 through 628 below are not printed in Section 1 but are available on-line at <https://www.sanantonio.gov/TCI/CurrentVendorResources/StandardSpecificationsandDetails.aspx>

<b>ITEM NO.</b>	<b>DESCRIPTION</b>
100	MOBILIZATION
101	PREPARING RIGHT-OF-WAY
102	OBLITERATING ABANDONED STREET
103	REMOVE CONCRETE
104	STREET EXCAVATION
105	CHANNEL EXCAVATION
107	EMBANKMENT
108	LIME TREATED SUBGRADE
200	FLEXIBLE BASE
202	PRIME COAT
203	TACK COAT
205	HOT MIX ASPHALTIC CONCRETE PAVEMENT
307	CONCRETE STRUCTURES
308	DRILLED SHAFTS AND UNDER-REAMED FOUNDATIONS
500	CONCRETE CURB, GUTTER, AND CONCRETE CURB AND GUTTER
502	CONCRETE SIDEWALKS
505	CONCRETE RIPRAP
514	PAINT AND PAINTING
515	TOPSOIL
516	SODDING
520	HYDROMULCHING
526	FIELD OFFICE
530	BARRICADES, SIGNS & TRAFFIC HANDLING
531	SIGNS
535	HOT APPLIED THERMOPLASTIC PAVEMENT MARKINGS
618	CONDUIT
620	ELECTRICAL CONDUCTORS
624	GROUND BOXES
628	ELECTRICAL SERVICES
540	TEMPORARY EROSION, SEDIMENTATION AND WATER POLLUTION PREVENTION AND CONTROL
554	EROSION CONTROL MATTING
618	CONDUIT
620	ELECTRICAL CONDUCTORS
624	GROUND BOXES
628	ELECTRICAL SERVICES

<b>ITEM NO.</b>	<b>DESCRIPTION</b>
801	TREE PROTECTION
1000	WEB PORTAL

## **SECTION 2**

**SPECIAL PROVISIONS:** Special provisions will govern and take precedence over the specifications enumerated hereon wherever in conflict therewith.

<b>ITEM NO.</b>	<b>DESCRIPTION</b>
502	CONCRETE SIDEWALKS
505	CONCRETE RIPRAP
520	HYDROMULCHING
526	FIELD OFFICE
700	COST LOADED PROJECT SCHEDULES
800	PROJECT SIGN
804	NEW TREE & SHRUB PLANTING AND MAINTENANCE

## **SECTION 3**

### **SPECIAL SPECIFICATIONS**

<b>ITEM NO.</b>	<b>DESCRIPTION</b>
1	DIVERSION AND CARE OF WATER
2	SWING GATES
02225	DEMOLITION
02316	FILL AND BACKFILL
02751	PORLAND CEMENT CONCRETE PAVING
02871	SITE AND STREET FURNISHINGS
02230	SITE CLEARING
04720	CAST STONE
04810	UNIT MASONRY ASSEMBLIES
04852	STONE MASONRY VENEER
05500	MISCELLANEOUS METALS – STEEL & ALUMINUM
10420	ARCHITECTURAL LETTERS, PLAQUES, IMAGE ETCHING ON ALUMINUM PANELS
129302	REMOVABLE BOLLARDS
129303	FIXED BOLLARDS

## **SECTION 4**

**TxDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS AND BRIDGES (June 2014)** Note that the referenced specifications 168 through 620 below are not printed in Section 3 but are available on-line at <ftp://ftp.dot.state.tx.us/pub/txdot-info/des/spec-book-1114.pdf>

<b>ITEM NO.</b>	<b>DESCRIPTION</b>
168	VEGETATIVE WATERING
354	PLANING AND TEXTURING PAVEMENT
400	EXCAVATION AND BACKFILL FOR STRUCTURES
420	CONCRETE SUPERSTRUCTURES
422	CONCRETE SUPERSTRUCTURES
432	RIPRAP
440	REINFORCEMENT FOR CONCRETE
442	METAL FOR STRUCTURES

<b>ITEM NO.</b>	<b>DESCRIPTION</b>
450	RAILING
454	BRIDGE EXPANSION JOINTS
459	GABIONS AND GABION MATTRESSES
476	JACKING, BORING, OR TUNNELING PIPE OR BOX
508	CONSTRUCTION DETOURS
528	COLORED TEXTURED CONCRETE AND LANDSCAPE PAVERS
529	CONCRETE CURB, GUTTER, AND COMBINED CURB AND GUTTER
543	CABLE BARRIER SYSTEMS
610	ROADWAY ILLUMINATION ASSEMBLIES

**MARTIN LUTHER KING PARK**  
**AVO 29666A**  
 Prepared for Department and Capital Improvements  
 City of San Antonio

NAME OF COMPANY/PERSON	ADDRESS	TELEPHONE NO.	EMAIL ADDRESS	AMOUNT/PD BY
Dutch Construction John Vandermeulen	15520 Capitol Port San Antonio, TX 78249	210-688-4083	<a href="mailto:Dutchconst53@yahoo.com">Dutchconst53@yahoo.com</a>	\$100.00 <i>No CD</i>
Baren Long Construction John Long	19942 FM 2252, Bldg. 5 San Antonio, TX 78622	210-377-1586	<a href="mailto:johnlongbl@yahoo.com">johnlongbl@yahoo.com</a>	\$100.00 <i>No CD</i>
Hill Country Bridge Butch Leist	30902 Smithson Valley Bulverde, TX 78163	830-885-4294	<a href="mailto:bleist@hillcountrybridge.com">bleist@hillcountrybridge.com</a>	\$100.00 <i>yes</i>
SB Contractors, LLC Layne Walker	P. O. Box 97 Fentress, TX 78622	979-219-3615	<a href="mailto:Layne.walker@SBContractorsLLC.com">Layne.walker@SBContractorsLLC.com</a>	\$100.00 <i>No CD</i>
Irina Shatsman Pronto Sandblasting & Coating	9456 S. Presa San Antonio, TX 78223	210-633-2035	<a href="mailto:prontosandblasting@earthlink.net">prontosandblasting@earthlink.net</a>	\$100.00 <i>yes</i>
Jordan Foster Construction Matthew Burges	306 W. Sunset, Ste. 107 San Antonio, TX 78209	210-463-9990	<a href="mailto:bboykin@jordanfosterconstruction.com">bboykin@jordanfosterconstruction.com</a>	\$100.00 <i>yes</i>



## ACKNOWLEDGEMENT FORM

RECEIPT OF ADDENDUM NUMBER(S) 1 IS HEREBY ACKNOWLEDGED BY THE UNDERSIGNED REGARDING THE SOLICITATION OF THE CONSTRUCTION OF MARTIN LUTHER KING PARK – PROJECT NO. 40-00374, FOR WHICH BIDS ARE SCHEDULED TO BE OPENED ON TUESDAY, OCTOBER 4, 2016 AT 2:00 P.M.

THIS ACKNOWLEDGEMENT FORM MUST BE SIGNED AND RETURNED WITH CONTRACTOR'S BID PACKAGE.

Company Name: \_\_\_\_\_

Address: \_\_\_\_\_

City/State/Zip Code: \_\_\_\_\_

Date: \_\_\_\_\_

\_\_\_\_\_

Signature

\_\_\_\_\_

Print Name/Title