ARCHEOLOGICAL INTENSIVE SURVEY SCOPE

VFW Boulevard Drainage Improvements Segment 2, Bexar County, Texas

Project Description

The purpose of the investigation described in this document is to document archeological resources within the footprint of proposed drainage improvements and associated construction activities along VFW Boulevard from Roosevelt Avenue, which is also a Texas Department of Transportation (TxDOT) roadway known as Spur 536, to Padre Drive in southeastern San Antonio, Bexar County, Texas (Figure 1). The project, which is owned by the City of San Antonio (CoSA) and TxDOT and funded by Bexar County, is intended to reduce flooding.

The main purpose of the project is to install box-section storm drains measuring approximately 3 by 2.4 m (10 by 8 ft) and 2.4 by 1.8 m (8 by 6 ft) partly under the existing roadway. The project will include additional minor elements such as the construction of sidewalks along the north and south sides VFW Boulevard.

The project area, and therefore the archeological area of potential effects (APE), extends from just west of Roosevelt Avenue to Padre Drive, a distance of approximately 0.43 kilometers (km) or 0.27 miles (see Figure 1 and Appendix A). The drains will be installed at a maximum depth of approximately 6 meters (m) or 20 feet (ft). Most of the APE varies in width between 27.4 and 36.6 m (90 and 120 ft), with its maximum width of approximately 113 m (370 ft) along Roosevelt Avenue. The 1.68-hectare (4.15-acre) APE includes approximately 1.29 hectares (3.19 acres) of existing City and County right-of-way (ROW) and 0.38 hectares (0.95 acres) of TxDOT ROW (see Figure 1). The APE also includes 0.002 hectares (0.005 acres) of new ROW to be acquired by the County; this area is too small to be shown in project maps but can be seen in Appendix B.

No project-specific locations or new temporary or permanent easements are known at this time. Many utility lines are present within the project area but the extent of utility relocation has not yet been fully established. Appendix A contains all the design information that is currently available.

This investigation concerns the second segment of a project formerly structured as one larger project. Additional drainage improvements will be constructed from Padre Drive to the San Antonio River; this work is known as VFW Boulevard Drainage Improvements Segment 1. On December 15, 2011, a meeting was held at the TxDOT San Antonio District office with representatives from TxDOT, CoSA, and Bexar County to discuss cultural resource issues in the area. One of the outcomes of the meeting was the recommendation (with concurrence from CoSA's City Archeologist) that Segments 1 and 2 be coordinated separately for several reasons: first, Segment 1 has independent utility; second, the segments have different construction schedules, rendering a single archeological permit for both projects unwieldy; and third, cultural resource coordination for Segment 2 falls under TxDOT's jurisdiction due to the inclusion of Roosevelt Avenue/Spur 536, while Segment 1 does not include any TxDOT facilities. Per these discussions, Texas Antiquities Permit 6139 was issued to Cox|McLain Environmental Consulting, Inc. (CMEC) on January 11, 2012 for Segment 1, but was cancelled on January 17, 2012 due to administrative restructuring of the project.

The Segment 2 project consists of elements to be installed at and below the ground surface within a heavily developed environment. Thus, the project has no potential to cause permanent adverse visual impacts to NRHP-listed or -eligible resources. Other indirect impacts, such as induced growth, are unlikely, given the lack of land available for development in the area.

Background Information

The APE is located at an approximate elevation of 174 m (570 ft) above mean sea level on a level terrace west of the San Antonio River. Geologically, the entire APE is underlain by late Quaternary (Holocene) alluvial

terrace deposits of sand, silt, clay, and gravel (Stoeser et al. 2007). Soil in the APE is mapped as Sunev clay loam on 0-1 percent slopes (NRCS 2012).

A data search of the Texas Archeological Sites Atlas maintained by the Texas Historical Commission (THC) and the Texas Archeological Research Laboratory (TARL) was conducted in order to identify any previously recorded cemeteries, historical markers, National Register of Historic Places (NRHP) properties or districts, State Archeological Landmarks (SALs), archeological sites, and previous surveys in the APE or within 1 km (0.62 miles), the standard buffer zone for such searches. One large-scale NRHP resource, the Mission Parkway National Historic District, encompasses most of the APE (THC 2012; see Figure 1).

One linear and two area surveys are shown crossing the APE in the Atlas' map view. The dates and other details of the linear survey are unknown, as its Atlas record is incomplete. The area surveys cover the entire Mission Parkway District and were undertaken in 1976 and 1980 by the THC and the National Park Service (NPS). In addition, keyword searches in the Atlas revealed a recent (2008-2010) CoSA project undertaken by SWCA at the NRHP-eligible Mission Drive-In at the intersection of VFW and Roosevelt. Finally, through coordination with TxDOT and CoSA personnel, CMEC learned of ongoing (2011-2012) investigations by the Center for Archeological Research at the University of Texas at San Antonio (CAR-UTSA) in Mission County Park, immediately east of the VFW-Padre intersection.

Within 1 km (0.62 miles) of the APE the following resources were found (THC 2012):

- Two additional National Register properties/districts
  - Ethel Wilson Harris house
  - San Jose Mission National Historic Site
- One historical marker associated with San Jose Mission
- One cemetery associated with San Jose Mission
- The Mission Drive-In south of VFW Boulevard, east of Roosevelt Avenue, and west of Padre Drive, recently evaluated by SWCA as eligible for the NRHP
- 16 previously recorded archeological sites:
  - 41BX3, San Jose Mission
  - 41BX237, the ruins of Hot Wells Bath House, a late-19th/early-20th-century bath house that has burned at least three times, most recently in 2011
  - 41BX267, the route of the main San Jose acequia
  - 41BX270, a site of unknown age/affiliation due to an incomplete Atlas record
  - 41BX563, trenches and materials associated with San Jose Mission (41BX3)
  - 41BX1621, a site of unknown age/affiliation due to an incomplete Atlas record
  - 41BX1628, a low-density deposit of prehistoric and historic-age materials recommended for additional work due to depth potential
  - 41BX1774, an early 20th-century residence adjacent to the Mission Drive-In
  - 41BX1803, a minor deposit of historic-age glass
  - 41BX1806, a minor deposit of historic-age glass and limestone fragments
  - 41BX1807, a minor deposit of historic-age glass, ceramic, and metal fragments
  - 41BX1809, a minor deposit of historic-age glass, ceramic, metal, and other materials
  - 41BX1917, a minor, likely disturbed deposit of prehistoric and historic-age materials
  - 41BX1918, a minor, likely disturbed deposit of prehistoric and historic-age materials
  - 41BX1919, a minor scatter of prehistoric and historic-age materials
  - 41BX1920, major prehistoric occupation and apparent fragment of Spanish colonial acequia, likely NRHP/SAL-eligible

Information provided by CAR-UTSA and TxDOT indicates that the colonial component of 41BX1920 may represent a hitherto unknown eastern secondary canal from the main San Jose acequia located west of the APE (41BX267; see Figure 1), and that this eastern fork may cross VFW Boulevard within the APE of the present

project. Given the location of the APE within an NRHP district and the well-documented importance of water management to the Spanish mission system, the acequia must be considered a key target of this survey.

Based on documentation of similar canals in the area, the acequia was initially hypothesized to be up to 4.6-6.1 m (15-20 ft) in width and 4.6 m (15 ft) or more in depth, beyond the depth of typical zones of road and utility disturbance (0.6-1.8 m or 2-6 ft) as well as the reach of typical archeological trenching (1.8-2.4 m or 6-8 ft). Therefore, earlier versions of this permit application, and earlier rounds of coordination with stakeholders, emphasized plans for ground-penetrating radar (GPR) survey to attempt to find the acequia. However, based on preliminary field data from 41BX1920 (provided by CAR-UTSA Director Steve Tomka), the acequia as found in Mission County Park appears to be ill-suited to geophysical prospection; much of the original upper part of the acequia appears to have been removed by development, and only the bottom remains, at less than 1.5 m (5 ft) in depth, far shallower than initial estimates and well within the reach of conventional mechanical units. GPR is still included here (see below) but is now considered a backup rather than primary approach.

Research Design

CMEC will conduct an intensive survey of the 1.68-hectare (4.15-acre) APE per category 2 under 13 TAC 26.20 and using the definitions in 13 TAC 26.5. Field methods and strategies will comply with the requirements of 13 TAC 26.20, as elaborated by the THC and the Council of Texas Archeologists (CTA).

Shovel tests will be placed where ground surface visibility is below 30 percent, soils appear to be of sufficient depth to contain subsurface cultural materials, and/or previous disturbance appears minimal. To set a conservative baseline appropriate to the APE's location in an NRHP district, if the APE is assumed to be entirely undisturbed (clearly not the case given the presence of an existing roadway within the APE, but the field conditions have not been observed firsthand yet), a linear goal of 32 shovel tests per mile (double the THC/CTA minimum) has been established, with a single transect along each side of VFW Boulevard. All shovel tests will be excavated in natural levels to subsoil or 60 cm (24 in), whichever is encountered first. Excavated matrix will be screened through 0.635-cm (0.25-in) hardware cloth as allowed by moisture and clay content, which may require that the removed sediment be crumbled/sorted by hand, trowel, and/or shovel point. Deposits will be described using conventional texture classifications and Munsell color designations. Radial shovel tests will be placed at 5-m (16-ft) intervals around each shovel test positive for cultural material until two negative units have been established in each cardinal direction, as allowed by project limits, observed disturbance, and other constraints. Deviations from THC and CTA standards will be explicitly justified.

Given the great depth of Sunev clay loam and the Holocene-age alluvial parent material beneath it, mechanical trenches will be excavated if field observations confirm they are logistically feasible based on drainage, disturbance, utility lines, and other constraining factors. Results from 41BX1920, where the remains of the colonial acequia were found in a trench profile, demonstrate the utility of this approach. Based on project design documents, existing disturbance is expected to be complex and to present major limitations. In addition, in some locations the existing storm drain may be so close to the proposed route that no ground remains undisturbed and amenable to investigation. CMEC's tentative goal (i.e., prior to firsthand evaluation of field conditions) is for 3-8 trenches to be excavated along the APE. Trenches will be excavated under the supervision of archeologists, who will examine profiles and backdirt for the presence of cultural materials and features. The trenching will progress in 50-cm (20-in) depth increments, and a sample from each increment will be screened through 0.635-cm (0.25-in) hardware cloth or crumbled/troweled due to clay/moisture content. The depth goal for the deep testing will be 1.5-1.8 m (5-6 ft), although the actual depth reached in each trench will be based on pedogenic and depositional horizons observed, the presence or absence of cultural materials, the local water table, and safety concerns related to soil stability. Due to no-excavation buffers around existing utilities, some or all of the units may be narrow slit trenches, i.e. without safety benches. If slit trenches are excavated, no personnel will enter the units, and all documentation will take place from outside the units. Only larger trenches with safety benches will be entered by staff members. Following completion of the mechanical excavations, CMEC personnel will examine the exposed deposits (as allowed by trench configuration and safety issues) and describe them using conventional texture classifications and Munsell color designations. Following description

of the deposits and sketching/photography of any features observed, CMEC personnel will supervise the complete backfilling and leveling of each trench area and the removal of any temporary safety fencing installed during the excavations.

Depending on field conditions, CMEC may also use GPR to collect subsurface data in the APE. The primary goal of GPR survey would to examine profile data for any indication of the hypothesized acequia or any other deeply buried anomaly that may require examination via archeological monitoring at the construction stage. At the December 15, 2011 meeting, GPR was mentioned as a possible acequia-prospection option to be used by TxDOT archeologists along Roosevelt Avenue, within and/or near Segment 2. However, the preliminary CAR-UTSA results argue against GPR use in tracking the acequia in this area: according to Steve Tomka, the canal is unlined (thus reducing the likelihood of the strong contrast in sediment properties necessary for identification via GPR) and is also much shallower than initially thought, within the range of conventional trenching, even in constrained conditions. Nevertheless, as the project develops and stakeholder conversations continue, new information may make GPR a more attractive option.

The APE is located on public land, with the exception of the 0.002-hectare (0.005-acre) parcel targeted for acquisition (see Appendix B), which is located along Roosevelt Avenue and is likely too disturbed and too small a space to yield significant materials. Therefore, public-land requirements are considered to effectively cover the entire APE. Per the provisions of the Antiquities Code, diagnostic artifacts will be collected from surface and subsurface contexts. If materials are collected, they will be prepared according to CAR-UTSA's standards and sent to that facility for long-term curation.

The project has a low probability of encountering human burials; if unanticipated burials are found, TxDOT will be notified and all requirements of 8 THSC 711 will be followed.

Each site located will be identified by a temporary marker placed on the site. The marker will have an identifying number in the form of "CMEC-XXX". This number is a temporary field number, to be superseded by a formal site trinomial obtained following the completion of fieldwork (see below). Site designations will be applied only to features (whether surface or subsurface) that appear to represent occupation or activity areas and/or to clusters of artifacts (whether surface or subsurface), with the minimum threshold of two contiguous positive shovel test units.

CMEC personnel will keep a complete record of field notes supplemented by digital photographs, with observations including (but not limited to) identified sites, cultural materials, location markers, contextual integrity, estimated time periods of occupations, vegetation, topography, hydrology, land use, soil exposures, general conditions at the time of the survey, and field techniques employed.

Reporting and Curation

Prior to completion of the report (discussed further below), relevant field observations for any new sites discovered or previously identified sites revisited will be transferred to TexSite forms and submitted to TARL for official recording and integration into the trinomial system. An analysis of recorded materials and site characteristics will be performed, and the results presented in a clear and concise manner.

These data will be used to formulate a preliminary evaluation of the NRHP and/or SAL eligibility of each site, as well as a recommendation for further work or no further work, supported by explicit justifications per 13 TAC 26.20 and the definitions in 13 TAC 26.5. The criteria to be used are presented below:

NRHP Eligibility

The National Historic Preservation Act of 1966, as amended, provides a statement of federal authority, an administrative framework for agency coordination, and general principles for the assessment of cultural resources, including archeological sites (called "historic properties" in this regulatory context,

regardless of actual historic or prehistoric dates), for their eligibility for inclusion in the National Register of Historic Places (36 CFR 800; 9 TNRC 191; 13 TAC 26.24).

More specific rules relating to the NRHP nomination process, list management, relevant definitions, and other matters are described in 36 CFR 60. Most important to the present investigation are the criteria for significance (and therefore potential NRHP eligibility):

> ...The quality of significance in American history, architecture, archeology, engineering, and culture is present in districts, sites, buildings, structures, and objects that possess integrity of location, design, setting, material, workmanship, feeling, and association and
>
> (a) that are associated with events that have made a significant contribution to the broad patterns of our history; or
> (b) that are associated with the lives of persons significant in our past; or
> (c) that embody the distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or
> (d) that have yielded or may be likely to yield, information important in prehistory or history (36 CFR 60.4).

Note that significance and NRHP eligibility are determined by two primary components: integrity *and* one of the four types of association and data potential listed under 36 CFR 60.4(a-d). The criterion most often applied to archeological sites is the last—and arguably the broadest—of the four (36 CFR 60.4[d]).

SAL Eligibility

For cultural resources identified on lands owned or controlled by the State of Texas or one of its political subdivisions—as well as resources on specially designated private lands in the state—provisions of state law relating to State Archeological Landmarks may also apply. This project involves land owned and/or controlled by CoSA and Bexar County; therefore, a brief overview of SAL criteria is included below.

An archeological site may be of sufficient significance to allow designation as a SAL if at least one of the following criteria applies:

> (1) the site has the potential to contribute to a better understanding of the prehistory and/or history of Texas by the addition of new and important information;
> (2) the site's archeological deposits and the artifacts within the site are preserved and intact, thereby supporting the research potential or preservation interests of the site;
> (3) the site possesses unique or rare attributes concerning Texas prehistory and/or history;
> (4) the study of the site offers the opportunity to test theories and methods of preservation, thereby contributing to new scientific knowledge;
> (5) the high likelihood that vandalism and relic collecting has occurred or could occur, and official landmark designation is needed to insure maximum legal protection, or alternatively further investigations are needed to mitigate the effects of vandalism and relic collecting when the site cannot be protected (13 TAC 26.8).

Following the interim submittal, a standard draft survey report will be prepared in compliance with the guidelines promulgated in 13 TAC 26.24 and by the CTA, and submitted to CoSA, the County, and TxDOT for review and comment, with at least four copies of the draft going to TxDOT. The report will include an introductory chapter discussing the conditions of the survey, a chapter on the environmental setting of the project area, a chapter discussing relevant cultural contexts, including previous research in the area, a chapter on survey methodology, a chapter explaining the results of this survey, and finally a chapter summarizing all work undertaken for the project and the resulting recommendations. The results will include CMEC's evaluation of each site's NRHP/SAL eligibility and the criteria used for such evaluation (in this case, per conversations with CoSA and TxDOT archeological staff, NRHP Criterion D will likely be the most relevant of the criteria, and the NRHP discussion will most likely focus on the potential to contribute to existing NRHP sites/districts). Each chapter of the report will contain all pertinent data collected and recorded per the requirements of subchapters and rules under 13 TAC 26, as applicable for this project. Property status (public or private) will be noted for

each unit excavated and each site identified. Comments on the draft report will be incorporated into a final version to be submitted to CoSA, the County, and TxDOT, with at least six hard copies (five bound and one unbound) and an archival CD or DVD with electronic copies for the latter. Per 13 TAC 26.24, the final submittal will include the transmission of at least one unbound copy and an electronic copy in tagged PDF format to the THC as well as the transmission of bound copies without site location information to state repositories.

Upon completion of the fieldwork and reporting, all materials generated by this project will be made available to future researchers at an appropriate public facility per TAC 26.27 and 26.5.

References

Natural Resources Conservation Service (NRCS)

2012 *Web Soil Survey – Bexar County, Texas.* Soil data and reports available at http://websoilsurvey.nrcs.usda.gov/app/. U.S. Department of Agriculture. Accessed March 15, 2012.

Stoeser, D. B., N. Shock, G. N. Green, G. M. Dumonceaux, and W. D. Heran

2007 *Geologic Map Database of Texas.* United States Geological Survey, Department of the Interior. Available online at: http://pubs.usgs.gov/ds/2005/170/. Downloaded February 20, 2011.

Texas Historical Commission (THC)

2012 *Texas Archeological Sites Atlas Data Sets.* Texas Historical Commission and the Texas Archeological Research Laboratory. Available at http://nueces.thc.state.tx.us, accessed March 16, 2012.

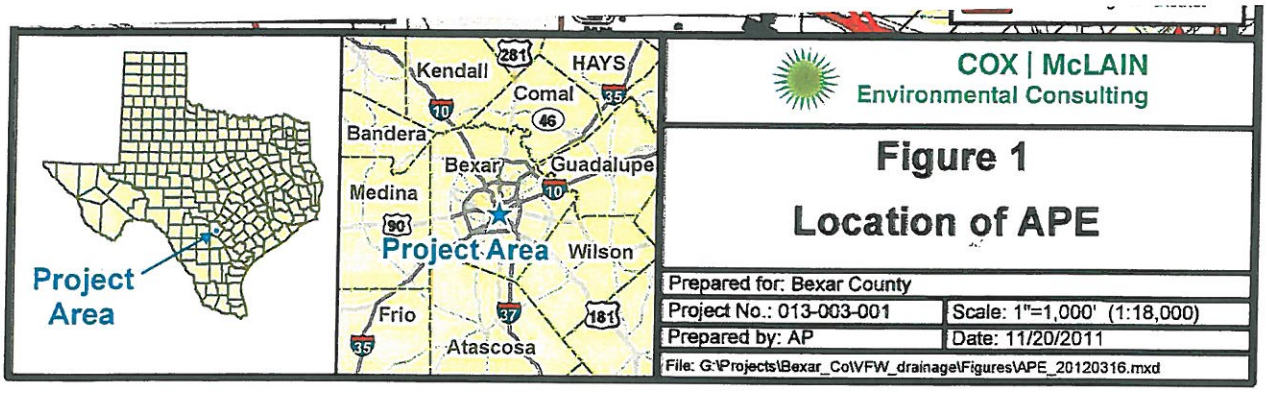
Figures

1. Location of project APE (topo base)

Appendices

A. Engineering information (typical sections, layout, etc.)
B. Survey information for proposed ROW

IMAGE RESTRICTED



Appendix A – Engineering Information (Typical Sections, Layout, etc.)

PUBLIC WORKS DEPARTMENT
FLOOD CONTROL DIVISION

VFW BLVD DRAINAGE IMPROVEMENTS SEGMENT 2

IFB 20XX-XX

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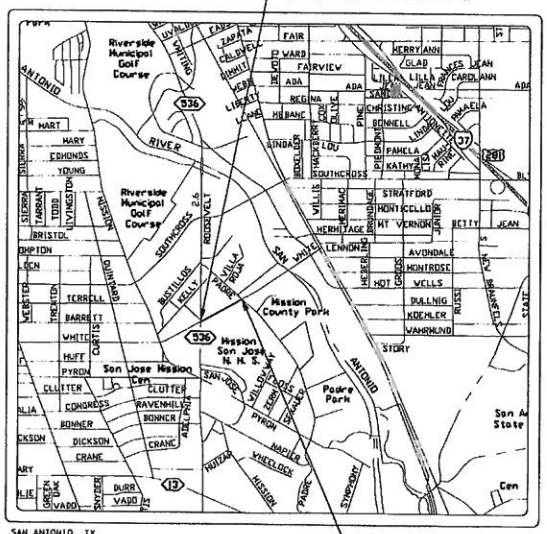

SAN ANTONIO, TX

N. T. S.

BEGIN PROJECT
BEGIN CONSTRUCTION
STA. 30+83.00

THE STATE OF TEXAS
COUNTY OF BEXAR

PROJECT MANAGER

INTERIM REVIEW ONLY
DOCUMENT IS FOR INTERIM REVIEW AND NOT INTENDED FOR CONSTRUCTION, BIDDING, OR PERMIT PURPOSES.
Engineer: FERNANDO CAMARILLO
P.E. Serial No.: 86882
Date: 10/28/2011

NELSON W. WOLFF	COUNTY JUDGE
SERGIO "CHICO" RODRIGUEZ	COMMISSIONER PCT. 1
PAUL ELIZONDO	COMMISSIONER PCT. 2
KEVIN A. WOLFF	COMMISSIONER PCT. 3
THOMAS "TOMMY" F. ADKISSON	COMMISSIONER PCT. 4
RENEE D. GREEN, PE	DIRECTOR OF PUBLIC WORKS/ COUNTY ENGINEER

40% SUBMITTAL
10/28/2011

EXCEPTIONS: NONE
EQUATIONS: NONE
RAILROAD CROSSINGS: NONE

DESIGN SPEED = XX MPH
PROJECT LENGTH = XXXX LF

PREPARED BY:

POZNECKI INC CAMARILLO
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SAN ANTONIO, TEXAS, 78228
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GENERAL
TITLE SHEET
INDEX OF SHEETS
PROJECT LAYOUT
PROJECT HORZ AND VERT CONTROL
TYPICAL SECTIONS
GENERAL NOTES
ESTIMATE AND QUANTITIES SHEET
SUMMARIES BY SHEET

TRAFFIC CONTROL PLAN
TCP NOTES & SEQUENCE OF WORK NARRATIVE
TCP LAYOUT & ADVANCE WARNING SIGNS
TCP LAYOUTS

TRAFFIC CONTROL PLAN STANDARDS
BARRICADE AND CONSTRUCTION STANDARDS (COSA-JUNE 2005)
BARRICADE AND CONSTRUCTION STANDARDS: BC(1-12)-07
TCP TYPICAL DETAILS: WZ(TD)-03
WORK ZONE SHORT TERM PAVEMENT MARKINGS: WZ(STPM)-03
TRAFFIC CONTROL PLAN: TCP(1-1 thru 4)-98
TRAFFIC CONTROL PLAN: TCP(2-1 thru 5)-98
LOW PROFILE CONCRETE BARRIER: LPCB(1-2)-92

STORM WATER POLLUTION PREVENTION PLAN
SW3P NARRATIVE
SW3P LAYOUTS

STORM WATER POLLUTION PREVENTION PLAN STANDARDS
TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES 1 & 2

ROADWAY PLAN AND PROFILES
HORIZONTAL CONTROL DATA SHEETS
VFW BLVD PLAN AND PROFILE SHEETS
ROOSEVELT AVE PLAN AND PROFILE SHEET
PADRE DR PLAN AND PROFILE SHEET
DAGLEY AVE PLAN AND PROFILE SHEET
INTERSECTION LAYOUTS
SIDEWALK DETAILS

ROADWAY STANDARDS
WHEELCHAIR RAMP STANDARD
CONCRETE DRIVEWAY STANDARD
MISC CONSTRUCTION DETAILS I AND II

DRAINAGE
EXISTING DRAINAGE AREA MAP
PROPOSED DRAINAGE AREA MAP
INTERIOR DRAINAGE AREA MAP
STORM DRAINAGE CALCULATION
STORM DRAINAGE PLAN AND PROFILE
STORM DRAIN DETAILS
SPECIAL JUNCTION BOX DETAILS

DRAINAGE STANDARDS
STORM DRAIN MANHOLE DETAILS TYPE 2, MH-2-02 (FW)
PIPE BEDDING AND MISC DRAINAGE DETAILS
SINGLE BOX CULVERT PRECAST 10'-0" SPAN, SCP-10
BOX CULVERTS PRECAST MISC DTLS, SCP-MD

PAVEMENT MARKINGS AND SIGNING DETAILS
PAVEMENT MARKINGS AND SIGNS

PAVEMENT MARKINGS AND SIGNING STANDARDS
GENERAL NOTES AND GROUND SIGN MOUNTING
D3 STREET NAME SIGN AND SIGN MOUNTING
GROUND MOUNTED SIGN SIZES
METRO STREET NAME SIGN AND SIGN PLACEMENT
TRAFFIC ENGINEERING STANDARDS (PAVEMENT MARKINGS)
DELINATOR & OBJECT MARKER INSTALLATION & MATERIAL DESCRIPTION D & OM (1)-09
DELINATOR & OBJECT MARKER PLACEMENT DETAILS D & OM (5)-04

TRAFFIC DETAILS

TRAFFIC STANDARDS
ED(1)-03 THRU ED(7)-03 ELECTRICAL DETAILS
SMA-80(1)-99 AND SMA-80(2)-96 SINGLE MAST ARM ASSEMBLY
(OMITTED)
TS-FD-99 TRAFFIC SIGNAL POLE FOUNDATION
MA-C-09 MAST ARM CONNECTIONS
MA-D-07 MAST ARM POLE DETAILS
TM-BBSCF-07 BATTERY BACKUP SYSTEM CONTROLLER FOUNDATION
ILSN(1) THRU ILSN(3) ILSN SIGN DETAIL
TM-VIVDS-08 VEHICLE DETECTOR INSTALLATION DETAILS

ENVIRONMENTAL DETAILS
ENVIRONMENTAL PERMITS, IMPACTS, AND COMMITMENTS (EPIC)
TREE PRESERVATION PLAN
TREE PROTECTION TABLE
TREE PROTECTION DETAILS

UTILITIES
UTILITY COORDINATION LAYOUT

40% SUBMITTAL

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Engineer: FERNANDO CAMARILLO
P.E. Serial No.: 86882
Date: 10/28/2011

BEXAR COUNTY
PUBLIC WORKS DEPARTMENT
FLOOD CONTROL DIVISION

NO	DATE	DESCRIPTION REVISIONS	DWG	CHK

VFW BLVD SEGMENT 2

INDEX OF SHEETS

POZNECKI CAMARILLO INC
5835 CALLAGHAN RD SUITE 300
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(210) 349-1335 (FAX)
TBPE REG. NO. F-453

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CHK DRWG	FC	TEXAS	BEXAR	1 OF 100

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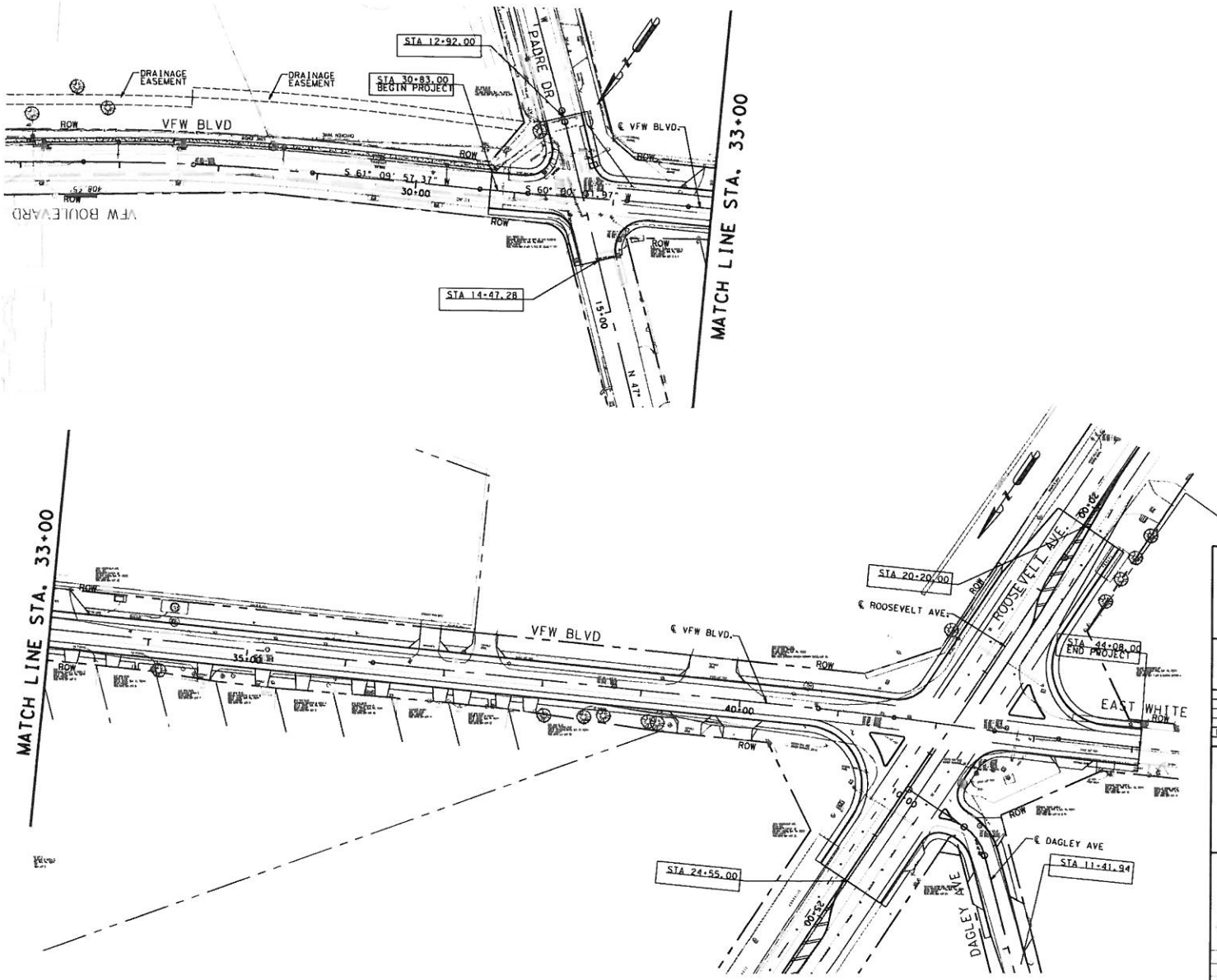

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Engineer: FERNANDO CAMARILLO
P.E. Serial No.: 86882
Date: 10/28/2011

BEXAR COUNTY
PUBLIC WORKS DEPARTMENT
FLOOD CONTROL DIVISION

NO	DATE	DESCRIPTION	DWG	CHK
		REVISIONS		

VFW BLVD SEGMENT 2

PROJECT LAYOUT

0 25 50 100
SCALE: 1"=100' HORIZ

POZNECKI CAMARILLO INC

DGN:				
CHK DGN:	FC			
DWG:		STATE	COUNTY	SHEET NO.
CHK DWG:	FC	TEXAS	BEXAR	2 OF 100

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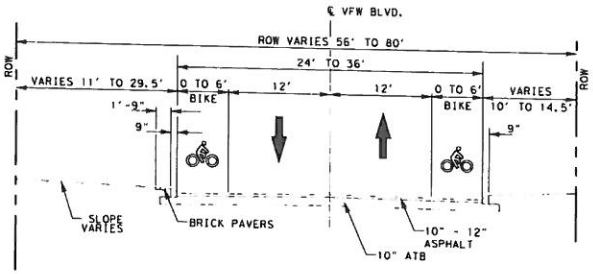

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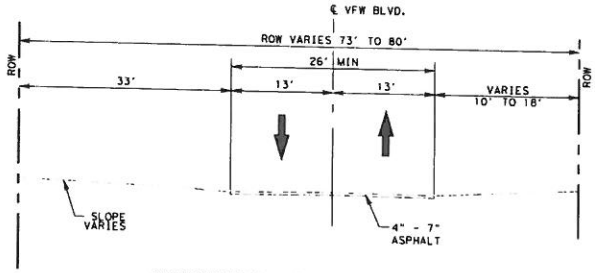
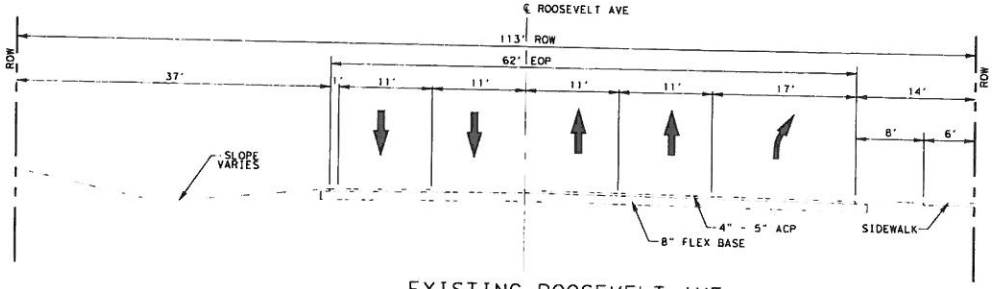
NTS



EXISTING VFW BLVD / E WHITE

SAT 32+75.00 TO STA 44+08.00

NTS



EXISTING ROOSEVELT AVE

NTS

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Engineer: FERNANDO CAMARILLO
P.E. Serial No.: 86882
Date: 10/28/2011

BEXAR COUNTY
PUBLIC WORKS DEPARTMENT
FLOOD CONTROL DIVISION

NO.	DATE	DESCRIPTION REVISIONS	DWG	CHK

VFW BLVD SEGMENT 2

TYPICAL SECTIONS

POZNECKI CAMARILLO INC

DSN:	
CHK DSN:	FC
DWN:	
CHK DWG:	FC

STATE	COUNTY	SHEET NO.
TEXAS	BEXAR	OF 100

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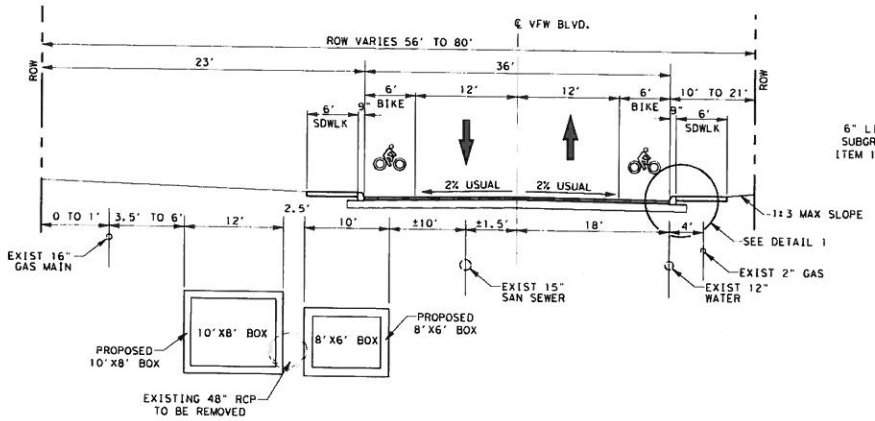
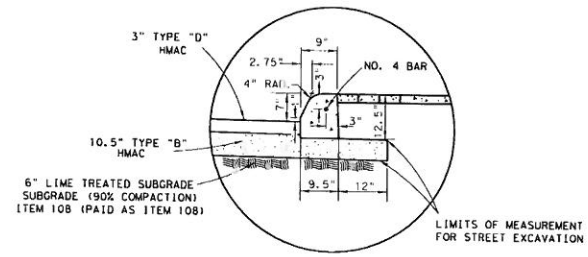


PROPOSED VFW BLVD.

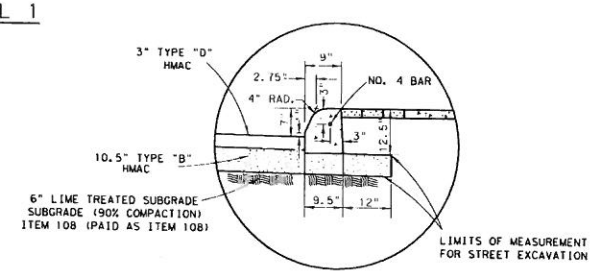
STA 30+75.50 TO SAT 41+53.94

NTS



DETAIL 1

NTS



DETAIL 2

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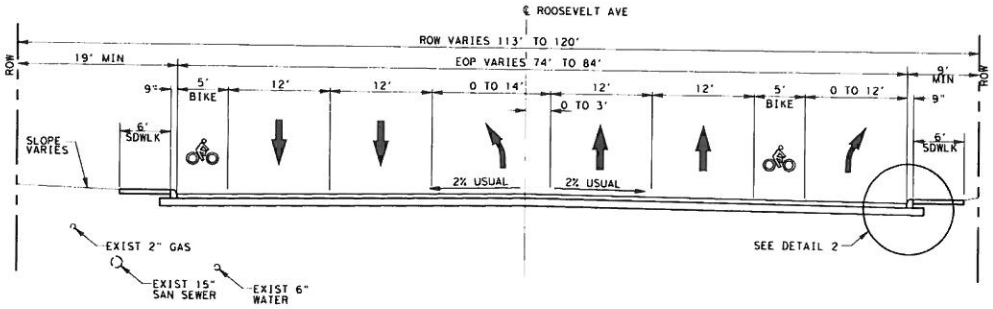

PROPOSED ROOSEVELT AVE

STA 20+20.00 TO STA 24+55.00

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Engineer: FERNANDO CAMARILLO

P.E. Serial No.: 86882

Date: 10/28/2011

BEXAR COUNTY
PUBLIC WORKS DEPARTMENT
FLOOD CONTROL DIVISION

NO	DATE	DESCRIPTION	DWG	CHK
		REVISIONS		

VFW BLVD SEGMENT 2

TYPICAL SECTIONS

POZNECKI CAMARILLO INC

DGN:				
CHK DGN:	FC			
DWG:		STATE	COUNTY	SHEET NO.
CHK DWG:	FC	TEXAS	BEXAR	4 OF 100

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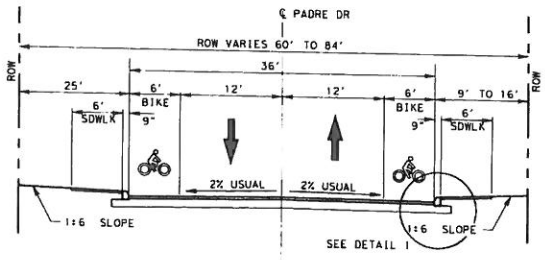
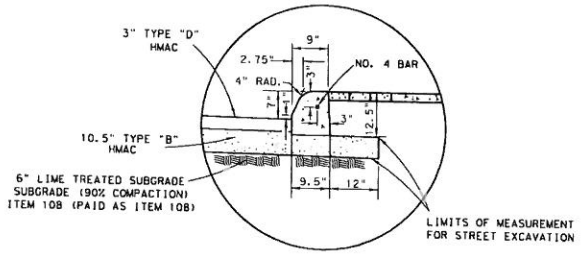


PROPOSED PADRE DR

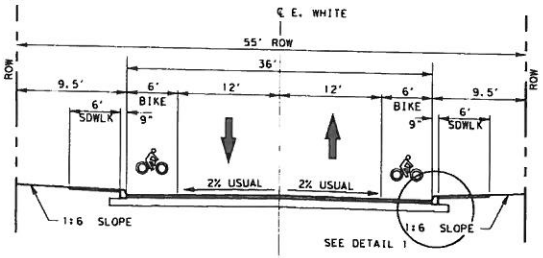
STA 12+98.00 TO STA 14+47.28

NTS



DETAIL 1

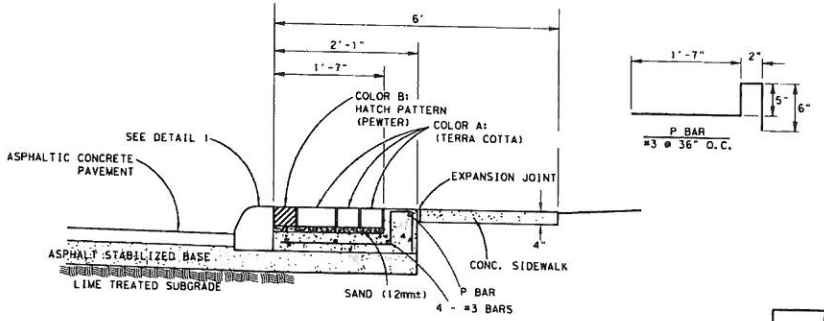
NTS



PROPOSED E. WHITE

STA 42+79.34 TO STA 44+08.00

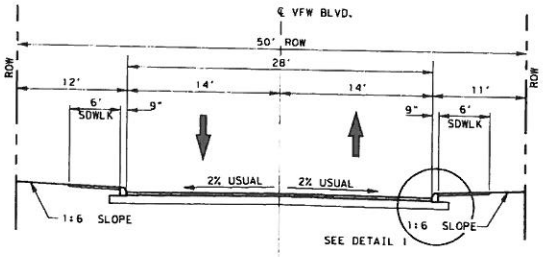
NTS



*LIMITS OF PAYMENT FOR ITEM 5288 LANDSCAPE PAVERS
(PAYMENT INCLUDES REINFORCED CLASS A CONCRETE AND SAND BEDDING)

6' PAVER BAND DETAIL / CURB

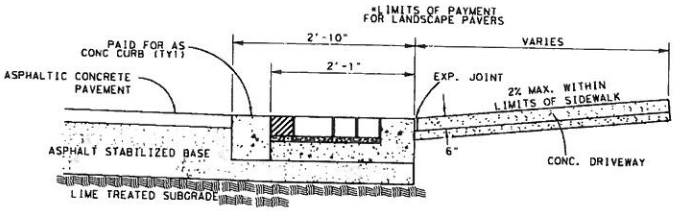
NTS



PROPOSED DAGLEY AVE

STA 10+41.00 TO STA 11+41.94

NTS



PAVER BAND DETAIL @ DRIVEWAY

NTS

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P.E. Serial No.: 86882
Date: 10/28/2011

BEXAR COUNTY
PUBLIC WORKS DEPARTMENT
FLOOD CONTROL DIVISION

NO	DATE	DESCRIPTION	DWG	CHK
		REVISIONS		

VFW BLVD SEGMENT 2

TYPICAL SECTIONS

POZNECKI INC CAMARILLO

DGN:				
CHK DGN:	FC			
DWG:		STATE	COUNTY	SHEET NO.
CHK DWG:	FC	TEXAS	BEXAR	5 OF 100

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GENERAL NOTES

1. ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF SAN ANTONIO (COSA) STANDARD SPECIFICATIONS FOR CONSTRUCTION JUNE 2008, OR LATEST.

2. TXDOT SPECIFICATIONS SHALL BE USED WHEN THERE IS NOT A COSA SPECIFICATIONS ITEM.

3. 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.

4. THE CONTRACTOR SHALL PROVIDE ACCESS FOR THE DELIVERY OF MAIL BY THE U.S. POSTAL SERVICE.

5. 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.)

6. 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 COUNTY'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 TIMES AS THE CONDITIONS ARE CORRECTED.

7. THE CONTRACTOR WILL BE REQUIRED TO FURNISH BARRICADES, WARNING SIGNS, LIGHTS, FLARES, FLAGS, FLAG MEN, ETC., WHERE NECESSARY AND AS DIRECTED BY THE COUNTY ENGINEER IN ACCORDANCE WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

8. IF THE NEED ARISES, ADDITIONAL BARRICADES AND DIRECTIONAL DEVICES MAY BE ORDERED BY THE TRAFFIC ENGINEERING REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE.

9. 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.

10. CONTRACTOR SHALL NOTIFY THE BEXAR COUNTY FLOOD CONTROL CIP PROGRAM OFFICE TWENTY FOUR (24) HOURS PRIOR TO BACKFILL OR TESTING AT (210) 296-2002.

11. 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.

12. 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.

13. CALL THE TEXAS ONE CALL SYSTEM AT 1-800-245-4545 TO LOCATE UTILITIES PRIOR TO CONSTRUCTION.

14. ALL WASTE MATERIAL SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE HIS SOLE RESPONSIBILITY TO DISPOSE OF THE MATERIAL OFF THE LIMITS OF THE PROJECT AT AN APPROVED DISPOSAL OR RECYCLE FACILITY. NO WASTE MATERIAL SHALL BE PLACED IN EXISTING LOWS THAT WILL BLOCK OR ALTER FLOW LIMITS OF EXISTING ARTIFICIAL OR NATURAL DRAINAGE.

15. THE CONTRACTOR SHALL NOT PLACE ANY WASTE MATERIAL IN THE 100-YEAR FLOOD PLAIN WITHOUT FIRST OBTAINING AN APPROVED FLOOD PLAIN DEVELOPMENT PERMIT.

16. THE CONTRACTOR SHALL MAINTAIN ALL ADJOINING STREETS AND TRAVELED ROUTES FREE FROM SPILLED AND / OR TRACKED CONSTRUCTION MATERIALS AND / OR DEBRIS.

17. IF THE CONTRACTOR ENCOUNTERS ANY ARCHAEOLOGICAL DEPOSITS DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR MUST STOP EXCAVATION IMMEDIATELY, CONTACT THE COUNTY OR 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 COUNTY OR 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, CONTRACT DURATION WILL NOT BE EXTENDED.

18. IF SUSPECTED CONTAMINATION IS ENCOUNTERED DURING CONSTRUCTION OPERATIONS, COUNTY OR CITY SHALL BE NOTIFIED IMMEDIATELY WHEN CONTAMINATED SOILS AND / OR GROUNDWATER ARE ENCOUNTERED AT LOCATIONS IDENTIFIED OR NOT IDENTIFIED IN THE PLANS. THE NOTIFICATION SHOULD INCLUDE THE STATION NUMBER, TYPE OF CONTAMINATED MEDIA, EVIDENCE OR CONTAMINATION AND MEASURES TAKEN TO CONTAIN THE CONTAMINATED MEDIA. PUBLIC ACCESS SHALL BE PREVENTED TO THE CONTAMINATED SOIL. THE CONTAMINATED SOIL AND / OR GROUNDWATER SHALL NOT BE REMOVED FROM THE LOCATION WITHOUT PRIOR COUNTY APPROVAL. THE CONTRACTOR MUST STOP THE EXCAVATION IMMEDIATELY AND CONTACT THE COUNTY OR CITY INSPECTOR. THE CONTRACTOR CANNOT CONTINUE EXCAVATION ACTIVITIES WITHOUT WRITTEN PERMISSION FROM THE COUNTY.

19. ALL MATERIALS TO BE USED SHALL BE SUBJECT TO TESTING IF WARRANTED. THE PREPONDERANCE OF TESTING TO BE PERFORMED IS DIRECTLY RELATED TO STREET CONSTRUCTION AND A SERIES OF LABORATORY TESTS NORMALLY ASSOCIATED WITH ROAD AND STREET CONSTRUCTION WILL BE REQUIRED. TESTING WILL BE PERFORMED BY AN INDEPENDENT TESTING LABORATORY. THE LABORATORY WILL BE SELECTED BY THE PROGRAM AND APPROVED BY THE OWNER. ALL COSTS ASSOCIATED WITH THE TESTING OF MATERIALS OR WORKMANSHIP SHALL BE PAID BY THE COUNTY.

20. CONTRACTOR WILL PREPARE A STORM WATER POLLUTION PREVENTION PLAN TO BE REVIEWED AND APPROVED BY THE COUNTY ENGINEER BEFORE BEGINNING CONSTRUCTION.

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Engineer: FERNANDO CAMARILLO
P.E. Serial No.: 86882
Date: 10/28/2011

BEXAR COUNTY
PUBLIC WORKS DEPARTMENT
FLOOD CONTROL DIVISION

NO	DATE	DESCRIPTION REVISIONS	DWG	CHK

VFW BLVD SEGMENT 2

GENERAL NOTES

POZNECKI CAMARILLO INC

DGN:				
CHK DGN:	FC			
DWG:		STATE	COUNTY	SHEET NO.
CHK DWG:	FC	TEXAS	BEXAR	6 OF 100

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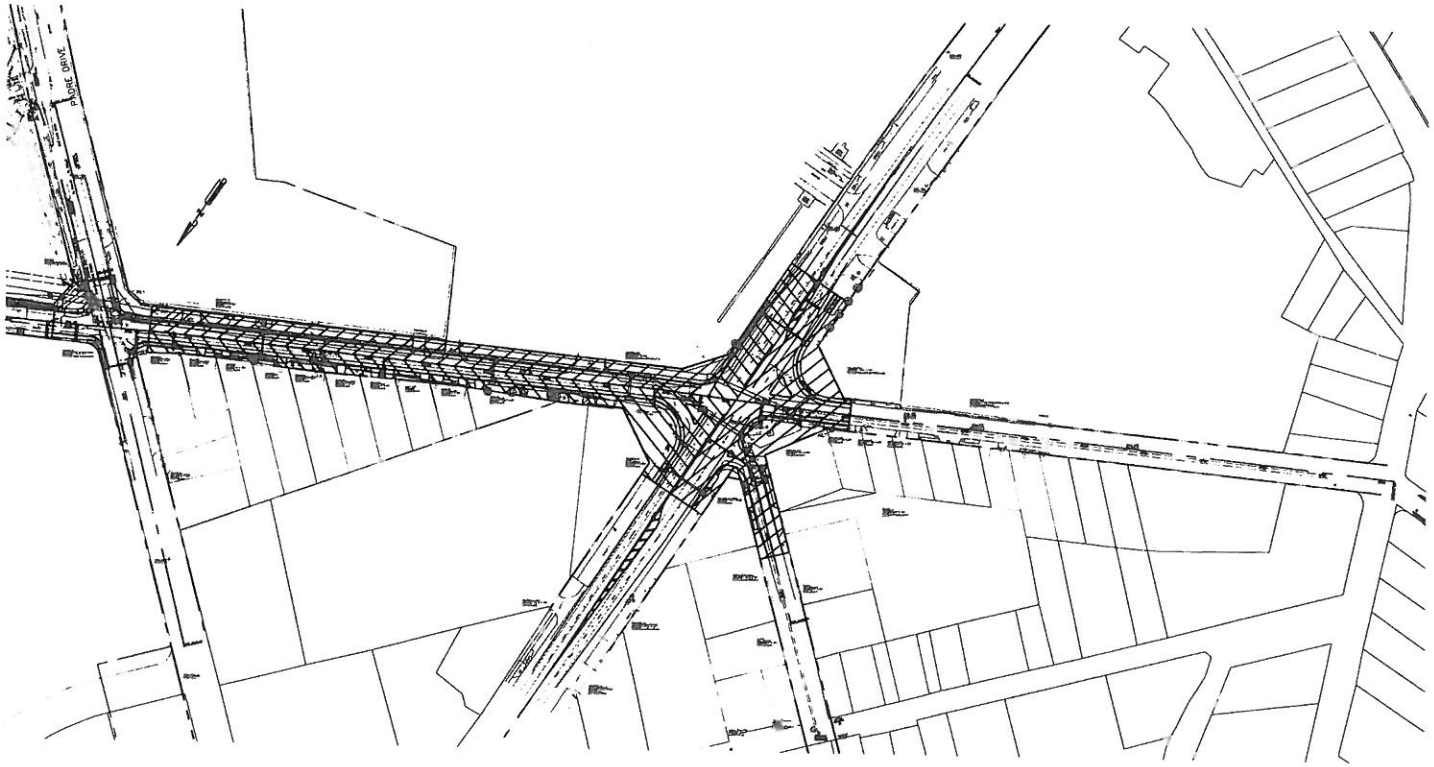

LEGEND:

PHASE II CONSTRUCTION

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Engineer: FERNANDO CAMARILLO
P.E. Serial No.: 86882
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BEXAR COUNTY
PUBLIC WORKS DEPARTMENT
FLOOD CONTROL DIVISION

NO	DATE	DESCRIPTION	DWG	CHK
		REVISIONS		

VFW BLVD SEGMENT 2

TRAFFIC CONTROL PLAN
& ADVANCE WARNING SIGNS

0 50 100 200
SCALE: 1"=100' HORIZ

POZNECKI INC
CAMARILLO

DGN:				
CHK DGN:	FC			
DWG:		STATE	COUNTY	SHEET NO.
CHK DWG:	FC	TEXAS	BEXAR	7 OF 100

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GENERAL

THE CONTRACTOR MAY, WITH THE APPROVAL OF, OR AND AS DIRECTED BY THE ENGINEER, BE REQUIRED TO VARY THE NUMBER AND LOCATION OF SIGNS AND BARRICADES FROM THOSE INDICATED ON THE PLANS IN ORDER TO MAINTAIN A SAFE AND UNINTERRUPTED FLOW OF TRAFFIC, PARTICULARLY IN IMMEDIATE WORK AREAS. THE NEED BEING ADDRESSED AND SUCH SIGNS AND PLACEMENT THEREOF SHALL BE IN ACCORDANCE WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. MAINTAIN WORK IN A PASSABLE CONDITION, INCLUDING PROPER DRAINAGE, TO ACCOMMODATE TRAFFIC. REGULATE ALL CONSTRUCTION TRAFFIC TO CAUSE A MINIMUM OF INCONVENIENCE TO THE TRAVELING PUBLIC.

ALL DRIVEWAYS AND CROSS STREETS WILL BE CONSTRUCTED TEMPORARILY WITH A LOGITUDINAL GRADE WITH A MAXIMUM ALGEBRAIC DIFFERENCE OF 14% FROM PROPOSED ROADWAY TO EXISTING CONDITION WITH MAXIMUM SIDE SLOPES OF 4:1, UNLESS OTHERWISE DIRECTED. FINAL CONSTRUCTION OF DRIVEWAYS WILL BE DONE IN HALVES WITH PASSABLE CONDITIONS AT ALL TIMES UNLESS OTHERWISE COORDINATED. FOLLOW THE STANDARD TCP DETAILS INCLUDED IN THIS SET OF PLANS AND/OR THE LATEST TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR CONSTRUCTION OF WORK ITEMS NOT SPECIFICALLY ADDRESSED IN THE PLANS, UNLESS DIRECTED OTHERWISE.

THE PROPER HANDLING OF STORM WATER IS AN ESSENTIAL ELEMENT OF THE CONTRACT. INSTALL AND MAINTAIN THE STORM WATER POLLUTION PREVENTION PLAN IN A TIMELY AND ACCEPTABLE MANNER.

PERFORM ALL PAVING OPERATIONS IN THE DIRECTION OF TRAFFIC. EQUIP ALL CONSTRUCTION VEHICLES AND MACHINERY OPERATED WITHIN 16 FEET OF THE ROADWAY WITH HIGH RISE FLAGS AND HIGH INTENSITY FLASHING LIGHTS.

A MINIMUM OF ONE LANE IN EACH DIRECTION MUST REMAIN OPEN TO TRAFFIC DURING DAILY OPERATIONS THROUGHOUT ALL PHASES OF CONSTRUCTION, EXCEPT AS NOTED IN THE PLANS OR AS DIRECTED. AT THE END OF EACH WORKING DAY, OPEN THE ROADWAY TO TWO-WAY TRAFFIC WITH APPROPRIATE TRANSITIONS BETWEEN THE WORK ZONE AND ANY AFFECTED ADJACENT ROADWAY SECTION AS DIRECTED. IF THERE IS A VERTICAL DROP OFF OF MORE THAN 2" ADJACENT TO ANY TRAVEL LANE NOT PROTECTED BY CONCRETE BARRIER, PLACE SIDE SLOPES OF 4:1 OR FLATTER AT THE END OF EACH WORK DAY. PLACE PROPER SIGNING TO WARN THE TRAVELLING PUBLIC OF ANY DROP-OFFS OR LOOSE GRAVEL.

LEAVE NO EQUIPMENT OR MATERIALS IN A POSITION AFTER WORKING HOURS THAT, IN THE OPINION OF THE ENGINEER, MAY ENDANGER THE PUBLIC.

TRAFFIC NOTES AND SPECIAL CONDITIONS (REVISED JANUARY 2010)

1. IT IS THE CONTRACTOR'S 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 A TRAFFIC CONTROL PLAN. 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, HE 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'S CONSTRUCTION OBSERVER/INSPECTOR (COI) AND THE 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 THE 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.

2. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL CONTACT THE CITY OF SAN ANTONIO TRAFFIC OPERATIONS SECTION AT 207-4586 FOR A TRAFFIC SIGNAL INVENTORY, AND AT 207-3951 FOR A TRAFFIC SIGN INVENTORY. PRIOR TO COMPLETION OF THE CONTRACT AND REMOVAL OF THE BARRICADES, THE CONTRACTOR SHALL AGAIN CONTACT THE TRAFFIC OPERATIONS SECTION. THE BARRICADES SHALL NOT BE REMOVED UNTIL ALL APPLICABLE PERMANENT TRAFFIC SIGNS AND SIGNALS ARE IN PLACE.

3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN AND MAINTAIN TEMPORARY STOP SIGNS AND ALL OTHER TRAFFIC CONTROL DEVICES REQUIRED TO PROTECT THE GENERAL PUBLIC. IF THE CITY OF SAN ANTONIO HAS REMOVED PERMANENT STOP SIGNS, THE CONTRACTOR SHALL REQUEST THAT THEIR SIGNS BE RETURNED TO THE CONSTRUCTION SITE TO BE REINSTALLED BY THE CONTRACTOR. ALL PERMANENT SIGNS OR TRAFFIC CONTROL DEVICES MISSING OR DAMAGED UPON COMPLETION OF CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

4. THE CONTRACTOR MUST CONTACT THE CITY'S COI 48 HOURS IN ADVANCE (NOT INCLUDING WEEKENDS) OF ANY MINOR STREET CLOSURE. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO ADVISE THE COI 10 DAYS IN ADVANCE OF THE ARTERIAL TOTAL STREET CLOSURE. THIS MUCH TIME IS NECESSARY TO INSTALL ADVISORY SIGNS AND GIVE THE MOTORIST A MINIMUM OF 7 DAYS NOTICE OF THE STREET CLOSURE. THE COI AFTER BEING NOTIFIED WILL CONTACT THE TRAFFIC ENGINEERING OFFICE TO MAKE THE NECESSARY ARRANGEMENTS.

5. AS WORK PROGRESSES, LOCATION OF TEMPORARY TRAFFIC CONTROL DEVICES WILL BE ADJUSTED AND MODIFIED, AS NECESSARY BY THE CONTRACTOR AT CONTRACTOR'S EXPENSE.

6. IF THE NEED ARISES, ADDITIONAL TEMPORARY TRAFFIC CONTROL DEVICES, SPECIAL DIRECTIONAL DEVICES, AND/OR BUSINESS NAME SIGNS MAY BE ORDERED BY THE TRAFFIC ENGINEERING REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE.

7. TEMPORARY TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE CITY'S "TYPICAL SIGN AND BARRICADE STANDARDS" SHEETS AND TO THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

8. THE CONTRACTOR MUST MAINTAIN ALL STREETS WITHIN PROJECT LIMITS OPEN TO THROUGH TRAFFIC BY REPAIRING TRENCHES, POTHOLES, LEVELING UP WITH ASPHALT, ETC. AT NO DIRECT PAYMENT, WITH THE COST TO BE INCLUDED IN OTHER ITEMS.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SUITABLE ACCESS ACCOMMODATIONS FOR SCHOOL CHILDREN AND PEDESTRIANS.

10. THE CONTRACTOR SHALL PROVIDE ACCESS FOR DELIVERY OF MAIL BY THE U.S. POSTAL SERVICE.

11. THE CONTRACTOR SHALL PROVIDE FOR ACCESS TO RESIDENCES AND ALL BUSINESSES AT ALL TIMES WITHIN ALL THE PHASES OF THE WORK.

12. WHEN CONSTRUCTION WORK NECESSITATES THE UTILIZATION OF VEHICLE PATHS OTHER THAN THE LANES NORMALLY USED, TRAFFIC CONTROL MARKINGS NO LONGER APPLICABLE SHALL BE REMOVED AND APPROVED TEMPORARY PAVEMENT MARKINGS AND SIGNS INSTALLED IN ACCORDANCE WITH PART 6 OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. AFTER CONSTRUCTION IS COMPLETED AND TRAFFIC IS REROUTED BACK TO THE ORIGINAL LANES, THE TRAFFIC CONTROL MARKINGS AND/OR RAISED BUTTONS THAT WERE ORIGINALLY REMOVED FROM THE EXISTING PAVEMENT MUST BE REPLACED. IN ADDITION, TEMPORARY MARKINGS MUST BE REMOVED. ALL OF THIS IS TO BE DONE AT NO DIRECT PAYMENT; COST SHOULD BE INCLUDED IN OTHER ITEMS.

13. PERMANENT PAVEMENT MARKINGS SHALL BE APPLIED PRIOR TO THE OPENING OF THE COMPLETED STREET TO TRAFFIC. PRIOR TO THE APPLICATION OF PERMANENT MARKINGS, EITHER TEMPORARY ADDITIONAL SHORT-TERM REMOVABLE PAVEMENT MARKINGS, OR RAISED PAVEMENT MARKINGS MAY BE PROVIDED TO DELINEATE CONTINUITY UNTIL SUCH TIME AS STANDARD PAVEMENT MARKINGS CAN BE PLACED. TEMPORARY MARKINGS SHALL BE PLACED AT NO DIRECT PAYMENT.

14. ALL TEMPORARY TRAFFIC CONTROL DEVICES, ETC. SHALL BE PROVIDED BY THE CONTRACTOR WITHOUT DIRECT PAYMENT, UNLESS OTHERWISE NOTED OR STATED.

15. THE COI WILL MONITOR THE CONTRACTOR'S TRAFFIC CONTROL DEVICES AND WILL BE RESPONSIBLE TO FURNISH ALL RESIDENTS AND BUSINESSES WITH AN INFORMATION FLYER ON ALL JOBS DURING CONSTRUCTION.

16. ANY DAMAGE TO PERMANENT TRAFFIC SIGNALS, THE CONTROLLER BOX, LOOPS OR CONDUITS DURING OR UPON COMPLETION OF THE PROJECT SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE. THE DECISION TO REPAIR, AS OPPOSED TO REPLACE, THE DAMAGED EQUIPMENT SHALL BE MADE BY THE CITY'S TRAFFIC ENGINEER.

17. 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 CITY'S STREET ENGINEER. THERE WILL BE NO DIRECT PAYMENT FOR THIS WORK. THE COST IS TO BE INCLUDED IN OTHER ITEMS.

18. OFF-DUTY POLICE OFFICERS WILL BE REQUIRED AS DIRECTED BY THE TRAFFIC ENGINEER AT NO DIRECT PAYMENT, COST TO BE INCLUDED IN OTHER BID ITEMS. THIS WILL BE A REQUIREMENT WHERE ONE LANE, TWO-WAY TRAFFIC IS TO BE MAINTAINED.

19. IF SPLIT CONSTRUCTION IS SHOWN, THEN THE SANITARY SEWER SHALL BE COMPLETED PRIOR TO BEGINNING STREET AND DRAINAGE CONSTRUCTION, AND TRAFFIC SHALL BE MAINTAINED OR DETOURED AS DIRECTED BY THE TRAFFIC ENGINEER. THERE WILL BE NO ADDITIONAL PAYMENT FOR THE MAINTAINING OF TRAFFIC OR DETOURS.

20. 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 INITIAL CONTACT.

21. 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 AND EMS AT (210) 227-8341 AND THE POLICE DEPARTMENT AT (210) 207-2257, TO APPRISE THEM OF THE PENDING STREET CLOSURE AT LEAST FORTY-EIGHT HOURS IN ADVANCE. IF THE CLOSURE FALLS ALONG A BUS ROUTE, THE CONTRACTOR SHALL ALSO CONTACT VIA AT (210) 362-5220.

22. THE CONTRACTOR SHALL MAINTAIN EITHER THE EXISTING OR TEMPORARY STREET NAME SIGNS AT EACH INTERSECTION ONSITE THROUGHOUT CONSTRUCTION. IF THE EXISTING STREET NAME SIGNS ARE USED, THEY MUST BE MAINTAINED IN THE CONDITION ENCOUNTERED PRIOR TO THE BEGINNING OF CONSTRUCTION, AND THEN BE TURNED IN TO THE CITY INSPECTOR AT THE END OF THE PROJECT. IF TEMPORARY SIGNS ARE USED DURING CONSTRUCTION, THEY SHALL HAVE A MINIMUM OF 4-INCH LETTERS, AND MAY BE FABRICATED WITH CONSTRUCTION ZONE MATERIAL (BLACK LEGEND ON ORANGE BACKGROUND, USING PLYWOOD SUBSTRATE, ETC...)

PHASING AND STAGING NOTES-STREET AND DRAINAGE CONSTRUCTION (REVISED NOV. 2002)

1. ANY QUESTIONS REGARDING PHASING OR STAGING WILL BE STRICTLY HANDLED BY THE DEPARTMENT OF PUBLIC WORKS WHICH HAS COMPLETE AUTHORITY TO MAKE FINAL DECISIONS ON ANY CHANGES OR MODIFICATFONS. THE CONTRACTOR MUST CONTACT THE CITY'S CONSTRUCTION INSPECTOR 48 HOURS IN ADVANCE (NOT INCLUDING WEEKENDS OR HOLIDAYS) OF ANY MINOR STREET CLOSURE. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO ADVISE CONSTRUCTION INSPECTORS TEN (10) DAYS IN ADVANCE OF ANY ARTERIAL STREET CLOSURE. THIS MUCH TIME IS NECESSARY TO INSTALL ADVISORY SIGNS AND GIVE THE MOTORISTS A MINIMUM OF SEVEN (7) DAYS NOTICE BEFORE STREET CLOSURE. THE CONSTRUCTION INSPECTOR, AFTER HAVING BEEN NOTIFIED, WILL CONTACT THE ENGINEERING OFFICE IMMEDIATELY TO MAKE THE NECESSARY ARRANGEMENTS. THE TEMPORARY BARRICADES AND WARNING SIGNS SHALL BE LOCATED SO AS TO AFFORD THE MAXIMUM PROTECTION TO THE PUBLIC AS WELL AS CONSTRUCTION PERSONNEL AND EQUIPMENT AND TO FACILITATE AN EXPEDITIOUS FLOW OF TRAFFIC AT ALL TIMES DURING CONSTRUCTION.

2. IF THERE ARE TWO (2) OR MORE PHASES IN THE PROJECT, NO MORE THAN TWO (2) PHASES OF CONSTRUCTION MAY BE WORKED AT ONE TIME, UNLESS OTHERWISE INDICATED IN THE PLANS. PARTIAL CONSTRUCTION AT DIFFERENT SCATTERED LOCATIONS WITHIN THE PROJECT WILL NOT BE ALLOWED. PROJECTS THAT CONSIST OF DISTINCT AND SEPARATE AREAS MAY BE UNDER CONSTRUCTION AT THE SAME TIME WITH AN APPROVED FIELD ALTERATION. ALL REMAINING STREETS WITHIN THE PROJECT OR SEPARATE AREA SHALL REMAIN OPEN AT ALL TIMES.

3. UNLESS OTHERWISE INDICATED IN THE PLANS, TWO (2) PHASES IN SEQUENCE MAY BE WORKED AT THE SAME TIME, IN PROJECTS WHERE THERE ARE AT LEAST THREE (3) PHASES. SUCH AS PHASE 1 AND PHASE 2 AND BEFORE GOING TO PHASE 3, PHASE 1 MUST BE COMPLETED 100% WITH BASE MATERIAL AND APPROVED DENSITIES (PRIME COATED IF BASE MATERIAL IS ITEM NO. 200 "FLEXIBLE BASE") BEFORE BEGINNING PHASE 3. IF THERE ARE ONLY TWO (2) PHASES IN THE PROJECT, PHASE (1) MUST BE COMPLETED 100% WITH BASE MATERIAL AND APPROVED DENSITIES (PRIME COATED IF BASE MATERIAL IS ITEM NO. 200 "FLEXIBLE BASE") BEFORE PROCEEDING TO PHASE 2.

4. IF THE PROJECT HAS MORE THAN SIXTEEN (16) PHASES, BEFORE THE CONTRACTOR CAN BEGIN PHASE 17, HE MUST COMPLETELY FINISH WITH TYPE "B" OR TYPE "D" ASPHALT AT LEAST 50% OFTHE LOWER PHASES HE HAS WORKED ON. (EXAMPLE: IF THE PROJECT HAS 20 PHASES, BEFORE THE CONTRACTOR CAN START CONSTRUCTION OF PHASE 17, HE MUST FINISH TYPE "B" OR TYPE "D" ASPHALT UP TO PHASE 8.)

5. THE PLANS ARE PHASED FOR STREET AND STORM DRAINAGE CONSTRUCTION. NO STORM SEWER CONSTRUCTION WILL TAKE PLACE OUTSIDE OF THE PHASING LIMITS UNDER CONSTRUCTION, UNLESS SPECIFICALLY NOTED ON THE PLANS OR AUTHORIZED IN WRITING BY THE TRAFFIC DIVISION.

6. ALL STORM DRAINAGE PIPES ARE NOT CONSIDERED UTILITIES, REGARDLESS OF SIZE. THIS WORK SHALL BE PART OF THE PHASE.

7. UNLESS OTHERWISE INDICATED IN THE PLANS, INTERSECTING STREETS SHALL BE CONSTRUCTED IN STAGES SO AS TO MAINTAIN ACCESS. INTERSECTION WORK SHALL BE DONE DURING WEEKEND HOURS OR AS DIRECTED BY THE ENGINEER. NO TWO ADJACENT INTERSECTIONS MAY BE CONSTRUCTED SIMULTANEOUSLY. WITH APPROVAL FROM THE ENGINEER, THE CONTRACTOR MAY CLOSE AN ENTIRE INTERSECTION. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE A DETOUR PLAN FOR SUCH A CLOSURE TO THE ENGINEER FOR APPROVAL.

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Engineer: FERNANDO CAMARILLO
P.E. Serial No.: 86882
Date: 10/28/2011

BEXAR COUNTY
PUBLIC WORKS DEPARTMENT
FLOOD CONTROL DIVISION

NO	DATE	DESCRIPTION	DWG	CHK
		REVISIONS		

VFW BLVD SEGMENT 2

TRAFFIC CONTROL PLAN
NOTES & SEQUENCE OF WORK

POZNECKI CAMARILLO INC

DGN				
CHK DGN	FC			
DWG		STATE	COUNTY	SHEET NO.
CHK DWG	FC	TEXAS	BEXAR	8 OF 100

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INSTALL ADVANCE WARNING DEVICES AND SIGNS FOR THE PROJECT. BICYCLE TRAFFIC WILL FOLLOW VEHICULAR DETOURS AND SEPARATED FACILITIES WILL BE SHARED DURING CONSTRUCTION.

PHASE 0

CONSTRUCT ELECTRIC, GAS, AND TELECOMMUNICATIONS AND OTHER OVERHEAD OR UNDERGROUND UTILITIES SHALL BE RELOCATED PRIOR TO CONSTRUCTION OF THIS PROJECT.

PHASE 1

MAINTAIN PROJECT SIGNS. INSTALL ADVANCE WARNING DEVICES AND SW3P MEASURES.

SET UP TRAFFIC DETOUR FOR EASTBOUND VFW BLVD TRAFFIC. DETOUR EASTBOUND VFW BLVD TRAFFIC FROM ROOSEVELT TO PADRE DRIVE, THEN TO VFW BLVD. SET UP PHASE I TCP TO MAINTAIN ONE LANE OF WESTBOUND TRAFFIC ON THE NORTHERN HALF OF VFW BLVD TO CONSTRUCT STORM DRAIN FROM STA 31+97 TO STA 41+71, AND ROADWAY CONSTRUCTION ON THE SOUTHERN SIDE OF VFW BLVD WHILE MAINTAINING WESTBOUND VFW TRAFFIC AT ALL TIMES. CONSTRUCT THE ROADWAY UP TO THE FIRST 1.5" LIFT OF TY D HMAC, INCLUDING PROPOSED CURB AND SIDEWALK.

CONSTRUCT THE WEST SIDE OF THE ROOSEVELT INTERSECTION AS SHOWN IN THE PLANS, INCLUDING DAGLEY DR AND EAST WHITE AVE. MAINTAIN ONE LANE IN EACH DIRECTION AT ALL TIMES. DURING SHORT TERM OPERATIONS TRAFFIC MAY BE REDUCED TO A SINGLE TWO WAY LANE WITH THE PRESENCE OF OFF-DUTY POLICE OFFICERS. CONSTRUCT THE ROADWAY UP TO THE FIRST 1.5" LIFT OF TY D HMAC, INCLUDING PROPOSED CURB AND SIDEWALK.

PHASE II

SET UP TRAFFIC DETOUR FOR WESTBOUND VFW BLVD TRAFFIC. DETOUR WESTBOUND VFW BLVD TRAFFIC NORTH ON PADRE DRIVE, THEN TO ROOSEVELT. SET UP PHASE II TCP TO MAINTAIN ONE LANE OF EASTBOUND TRAFFIC ON THE SOUTHERN HALF OF THE VFW BLVD ROADWAY CONSTRUCTION ON THE NORTHERN SIDE OF VFW BLVD. MAINTAIN WESTBOUND VFW TRAFFIC AT ALL TIMES. CONSTRUCT THE ROADWAY UP TO THE FIRST 1.5" LIFT OF TY D HMAC.

CONSTRUCT THE EAST SIDE OF THE ROOSEVELT INTERSECTION AS SHOWN IN THE PLANS. MAINTAIN ONE LANE IN EACH DIRECTION AT ALL TIMES. DURING SHORT TERM OPERATIONS TRAFFIC MAY BE REDUCED TO A SINGLE TWO WAY LANE WITH THE PRESENCE OF OFF-DUTY POLICE OFFICERS. CONSTRUCT THE ROADWAY UP TO THE FIRST 1.5" LIFT OF TY D HMAC.

PHASE III

PLACE FINAL OVERLAY OF TOP 1.5" LIFT OF TY D HMAC. USE SHORT TERM PAVEMENT MARKINGS TO DELINEATE TRAVEL LANES. PLACE FINAL STRIPING CONFIGURATION AS SHOWN IN TRAFFIC PLANS.

FINAL CLEANUP

UPON COMPLETION OF THE WORK AND BEFORE FINAL PAYMENT IS MADE, CLEAN, RESTORE, SHAPE AND FINISH SUCH PORTIONS OF THE RIGHT OF WAY AND EASEMENTS AS MAY HAVE BEEN DISTURBED IN MAKING THE ABOVE PROVISIONS FOR TRAFFIC AND CONSTRUCTION. REMOVE LITTER, DEBRIS, OBJECTIONABLE MATERIAL, TEMPORARY STRUCTURES, EXCESS MATERIALS, AND EQUIPMENT FROM THE WORK LOCATION. LEAVE THE ENTIRE RIGHT OF WAY, STREAM CHANNELS, AND EASEMENTS IN A SMOOTH, NEAT AND SIGHTLY CONDITION. DISPOSE OF EXCESS MATERIALS IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

PAYMENT

CUTTING, REMOVING, AND RESTORING PAVEMENT WHEN SHOWN IN THE SEQUENCE OF WORK FOR CONSTRUCTION OF CROSS-DRAINAGE STRUCTURES WILL BE PAID FOR UNDER COSA ITEM 230.1 "FLEXIBLE PAVEMENT STRUCTURE REPAIR".

TEMPORARY SPECIAL SHORING FOR THE LOCATION SHOWN IN THE PLANS WILL BE PAID FOR UNDER COSA ITEM 551.1.

THE CONTRACTOR WILL BE RESPONSIBLE TO FURNISH THE LOW PROFILE CONCRETE TRAFFIC BARRIER FOR THIS PROJECT. PAYMENT WILL BE MADE UNDER COSA ITEM 525.1. ESTIMATED QUANTITIES INCLUDE 3040 LF OF LPCB TYPE 1 AND 560 LF OF LPCB TYPE 2.

ALL NECESSARY FLAGGERS, PILOT CARS, DRUMS, DEVICES, WORK AND MATERIALS FOR WORK ZONE PAVEMENT MARKINGS, SHORT TERM MARKERS, AND APPROPRIATE SIGNING TO SAFELY GUIDE TRAFFIC WILL NOT BE PAID FOR DIRECTLY BUT WILL BE SUBSIDIARY TO COSA ITEM 530.1 "BARRICADES, SIGNS AND TRAFFIC HANDLING".

TEMPORARY PAVEMENT SHOWN IN THE PLANS WILL BE PAID FOR UNDER TXDOT ITEM 508 "CONSTRUCTING DETOURS".

ALL OTHER WORK AND MATERIALS REQUIRED BY THESE PROVISIONS WILL NOT BE PAID FOR DIRECTLY, BUT WILL BE SUBSIDIARY TO THE VARIOUS BID ITEMS OF THE CONTRACT, UNLESS OTHERWISE INDICATED IN THE PLANS OR SPECIFICATIONS.

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Engineer: FERNANDO CAMARILLO
P.E. Serial No.: 86882
Date: 10/28/2011

BEXAR COUNTY
PUBLIC WORKS DEPARTMENT
FLOOD CONTROL DIVISION

NO	DATE	DESCRIPTION	DWG	CHK
		REVISIONS		

VFW BLVD SEGMENT 2

TRAFFIC CONTROL PLAN
NOTES & SEQUENCE OF WORK

POZNECKI CAMARILLO INC

DSGN				
DRN DSNL	FC			
DWG		STATE	COUNTY	SHEET NO.
CHK DSNL	FC	TEXAS	BEXAR	9 OF 100

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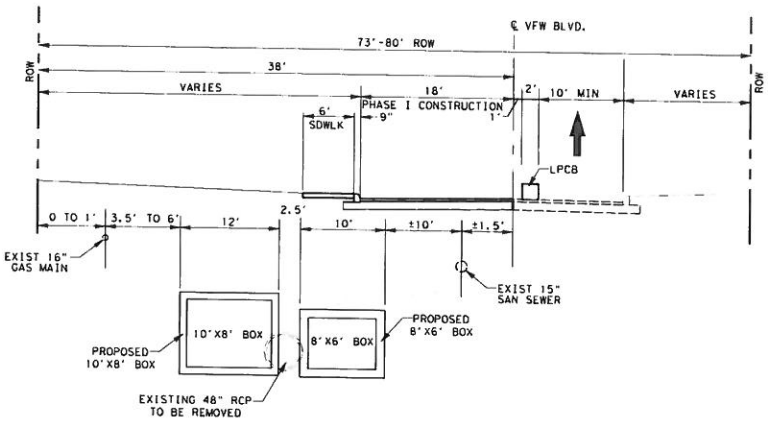
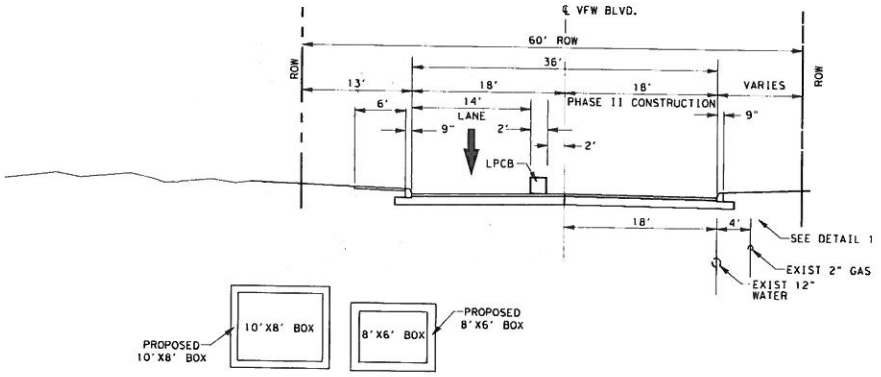


PROPOSED VFW BLVD.

STA 30+75.50 TO SAT 41+53.94

NTS



PROPOSED VFW BLVD.

STA 00+00.00 TO STA 00+00.00

NTS

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P.E. Serial No.: 86882

Date: 10/28/2011

BEXAR COUNTY
PUBLIC WORKS DEPARTMENT
FLOOD CONTROL DIVISION

NO	DATE	DESCRIPTION REVISIONS	DWG	CHK

VFW BLVD SEGMENT 2

TCP
TYPICAL SECTIONS

POZNECKI INC CAMARILLO

DGN:				
CHK DGN:	FC			
DWG:		STATE	COUNTY	SHEET NO.
CHK DWG:	FC	TEXAS	BEXAR	10 OF 100

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BEXAR COUNTY
PUBLIC WORKS DEPARTMENT
FLOOD CONTROL DIVISION

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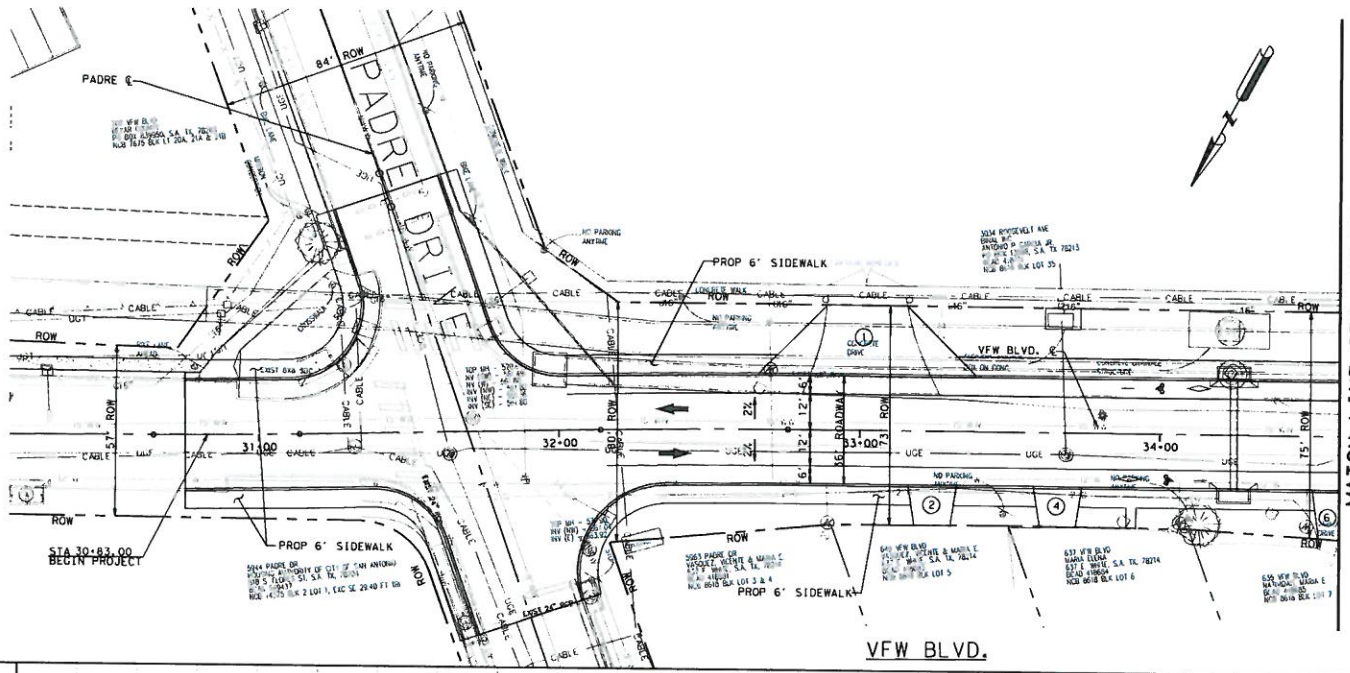
		REVISIONS		

VFW BLVD SEGMENT 2

HORIZONTAL CONTROL DATA SHEET

POZNECKI CAMARILLO INC

DGN:				
DWN:	FC			
DSG:		STATE	COUNTY	SHEET NO.
CHK:	FC	TEXAS	BEXAR	11 OF 100



LEGEND

- MILL/OVERLAY LIMITS
- DRIVEWAY NUMBER
- C-1 CURVE NUMBER
- PROP. CONCRETE
- PROP. SODDING
- EXIST TREE CANOPY
- EXIST PROPERTY LINE
- RET WALL
- FLOW DIRECTION
- WIRE FENCE

NOTES:

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2. CALL THE TEXAS ONE CALL LOCATOR AT 1-800-344-8377, 48 HOURS BEFORE BEGINNING ANY EXCAVATION.
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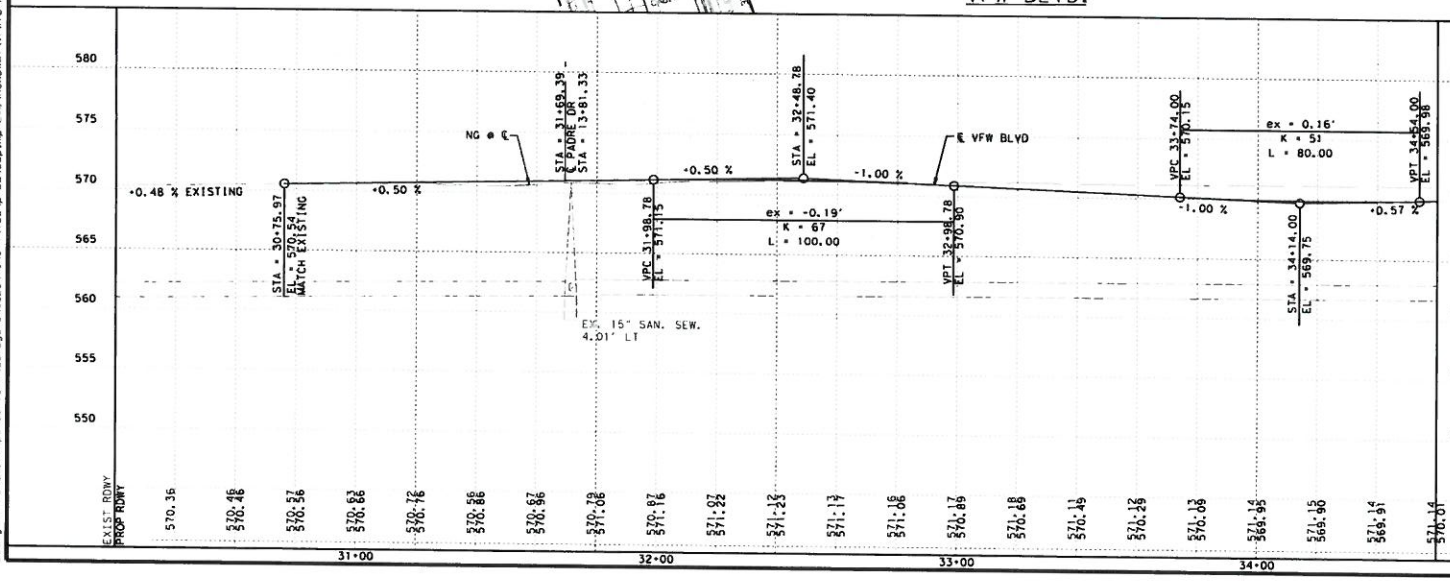
6. SAW CUT THE EXIST. CONC. SIDEWALK AND/OR CURB AND/OR PVMT AND COORDINATE WITH THE CONSTRUCTION INSPECTOR REGARDING ANY TRANSITION.
7. ALL OFFSET CALLOUTS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.

40% SUBMITTAL



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BEXAR COUNTY
PUBLIC WORKS DEPARTMENT
FLOOD CONTROL DIVISION

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		REVISIONS		

VFW BLVD SEGMENT 2

ROADWAY PLAN AND PROFILE VFW BLVD.

0 10 20 40
SCALE: 1"=40' HORIZ
1"=10' VERT

POZNECKI INC CAMARILLO

DGN:				
CHK DGN:	FC			
DWG:		STATE	COUNTY	SHEET NO.
CHK DWG:	FC	TEXAS	BEXAR	12 OF 100

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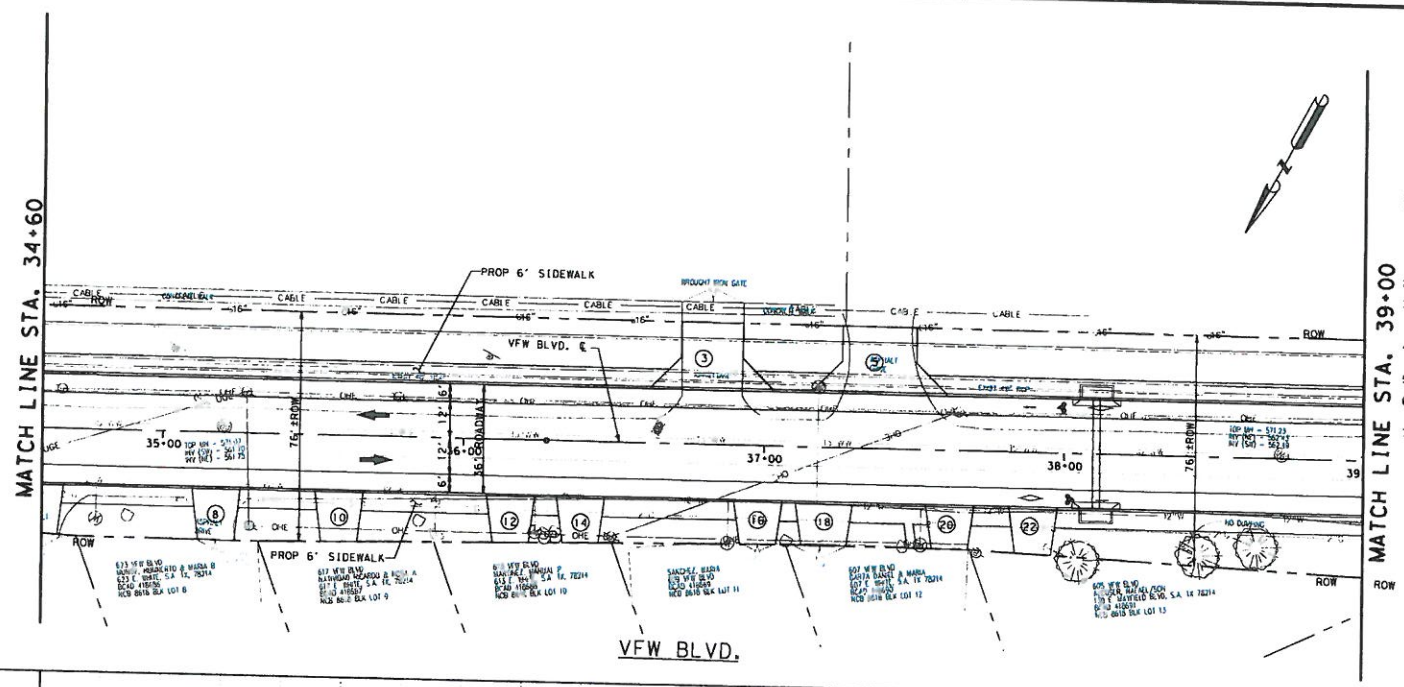

LEGEND

- MILL/OVERLAY LIMITS
- DRIVEWAY NUMBER
- C-1 CURVE NUMBER
- PROP. CONCRETE
- PROP. SODDING
- EXIST TREE CANOPY
- EXIST PROPERTY LINE
- RET WALL
- FLOW DIRECTION
- x — WIRE FENCE

NOTES:

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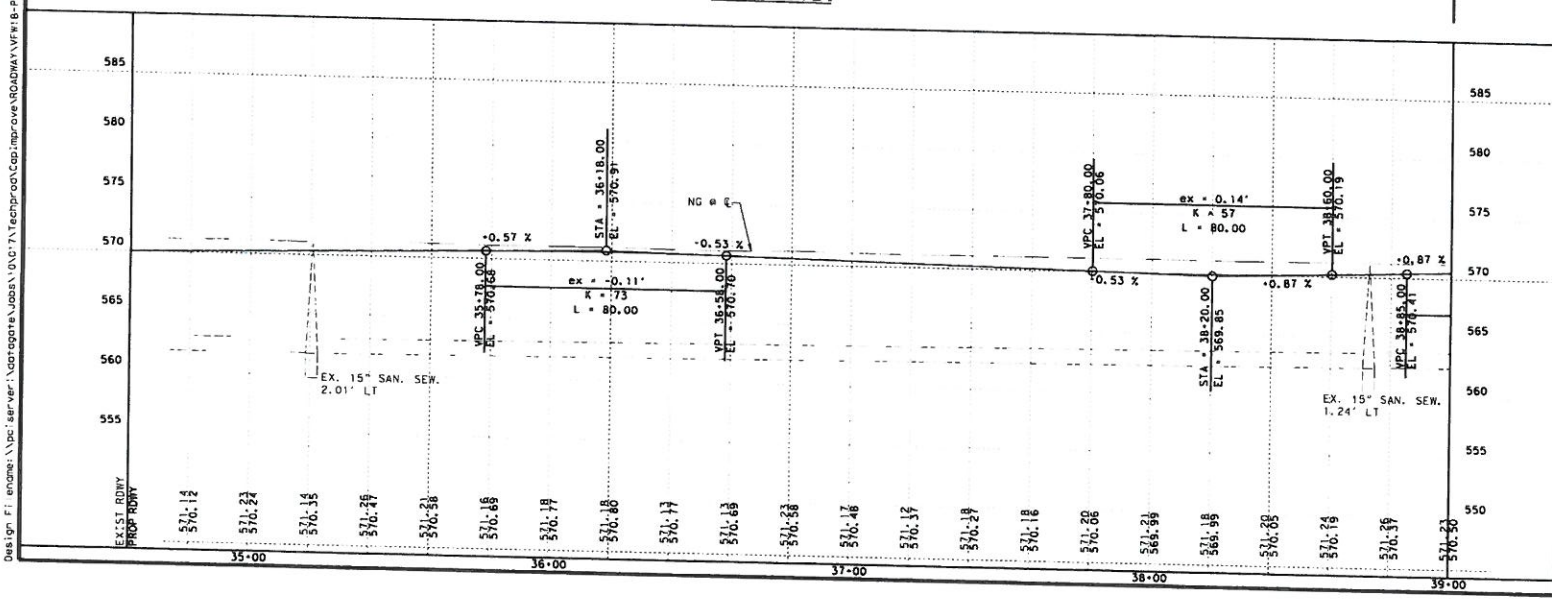
40% SUBMITTAL



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Date: 10/28/2011

BEXAR COUNTY
PUBLIC WORKS DEPARTMENT
FLOOD CONTROL DIVISION

NO	DATE	DESCRIPTION	DWG	CHK
		REVISIONS		

VFW BLVD SEGMENT 2

ROADWAY PLAN AND PROFILE VFW BLVD.

0 10 20 40
SCALE: 1"=40' HORIZ
1"=10' VERT

POZNECKI CAMARILLO INC

DGN:				
CHK DGN:	FC			
DWG:		STATE	COUNTY	SHEET NO.
CHK DWG:	FC	TEXAS	BEXAR	13 OF 100

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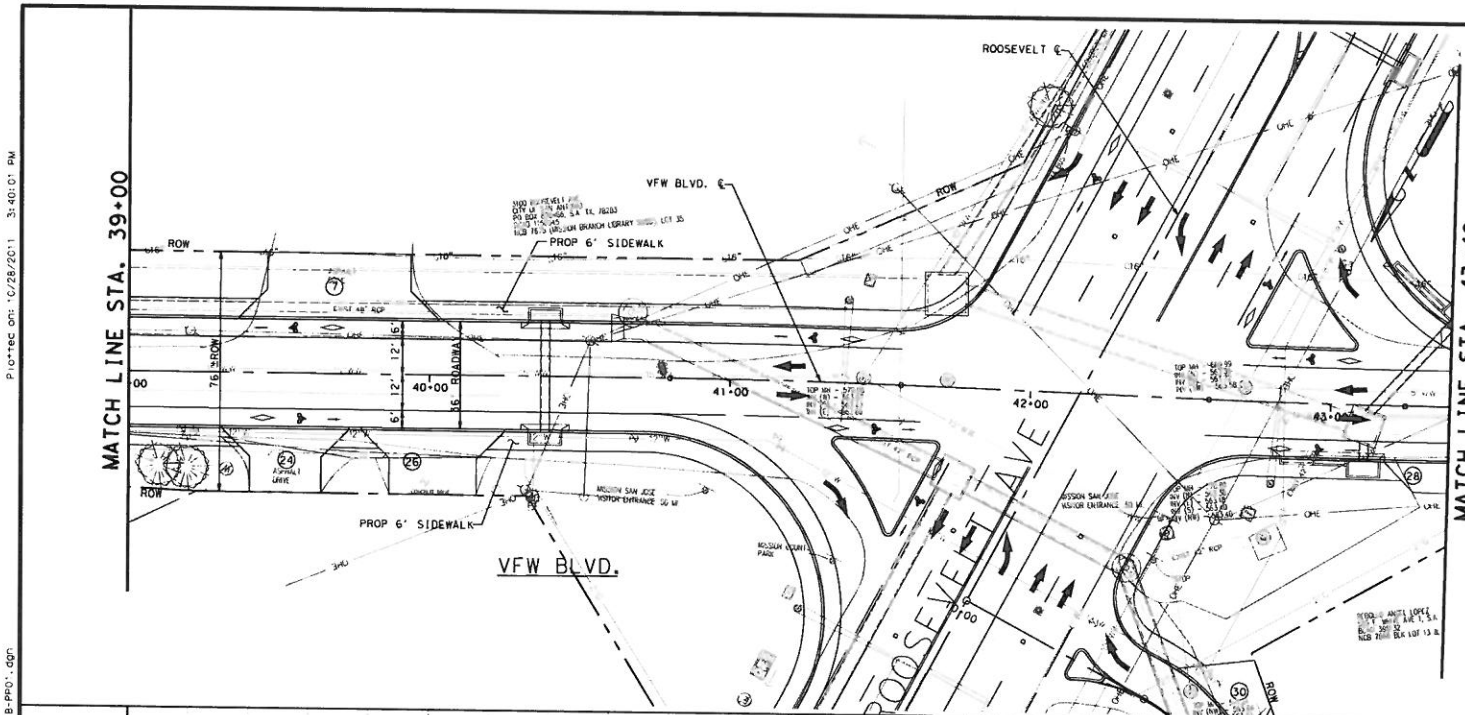

LEGEND

- MILL/OVERLAY LIMITS
- DRIVEWAY NUMBER
- CURVE NUMBER
- PROP. CONCRETE
- PROP. SODDING
- EXIST TREE CANOPY
- EXIST PROPERTY LINE
- RET WALL
- FLOW DIRECTION
- WIRE FENCE

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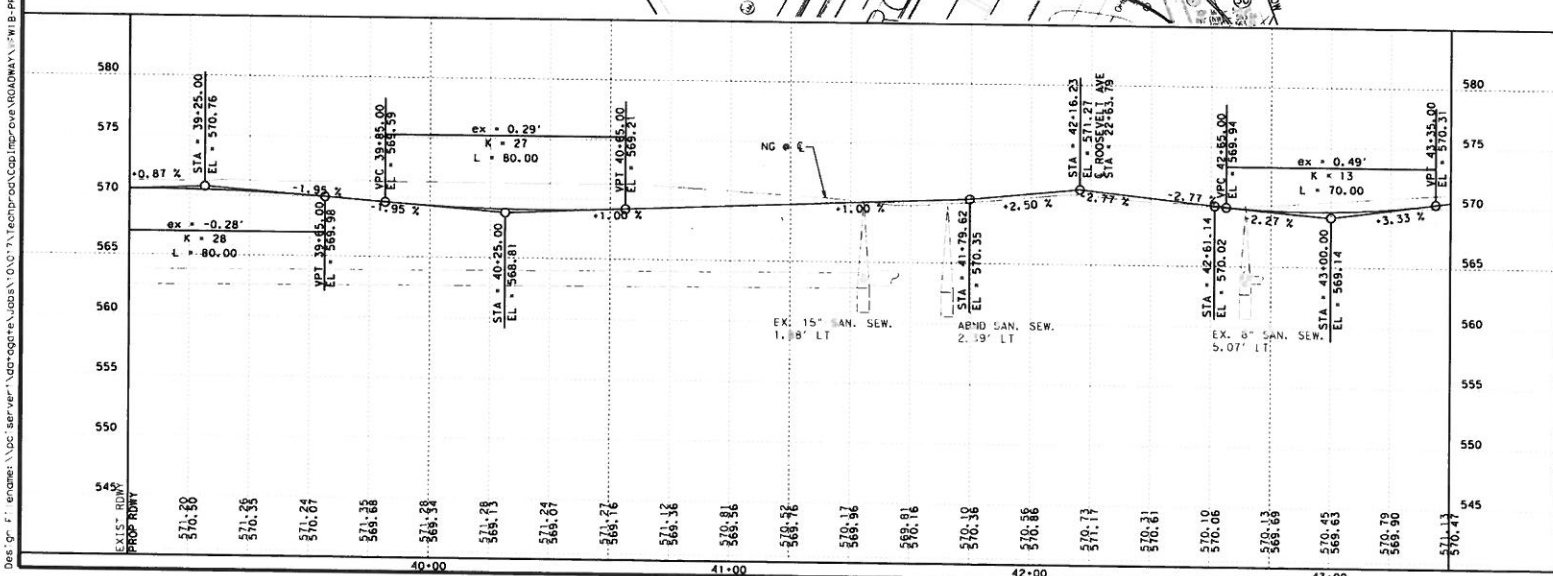
40% SUBMITTAL



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P.E. Serial No.: 86882
Date: 10/28/2011

BEXAR COUNTY
PUBLIC WORKS DEPARTMENT
FLOOD CONTROL DIVISION

NO	DATE	DESCRIPTION	DWG	CHK
		REVISIONS		

VFW BLVD SEGMENT 2

ROADWAY PLAN AND PROFILE VFW BLVD.

0 10 20 40
SCALE: 1"=40' HORIZ
1"=10' VERT

POZNECKI INC CAMARILLO

DGN:				
CHK DGN:	FC			
DWG:		STATE	COUNTY	SHEET NO.
CHK DWG:	FC	TEXAS	BEXAR	14 OF 100

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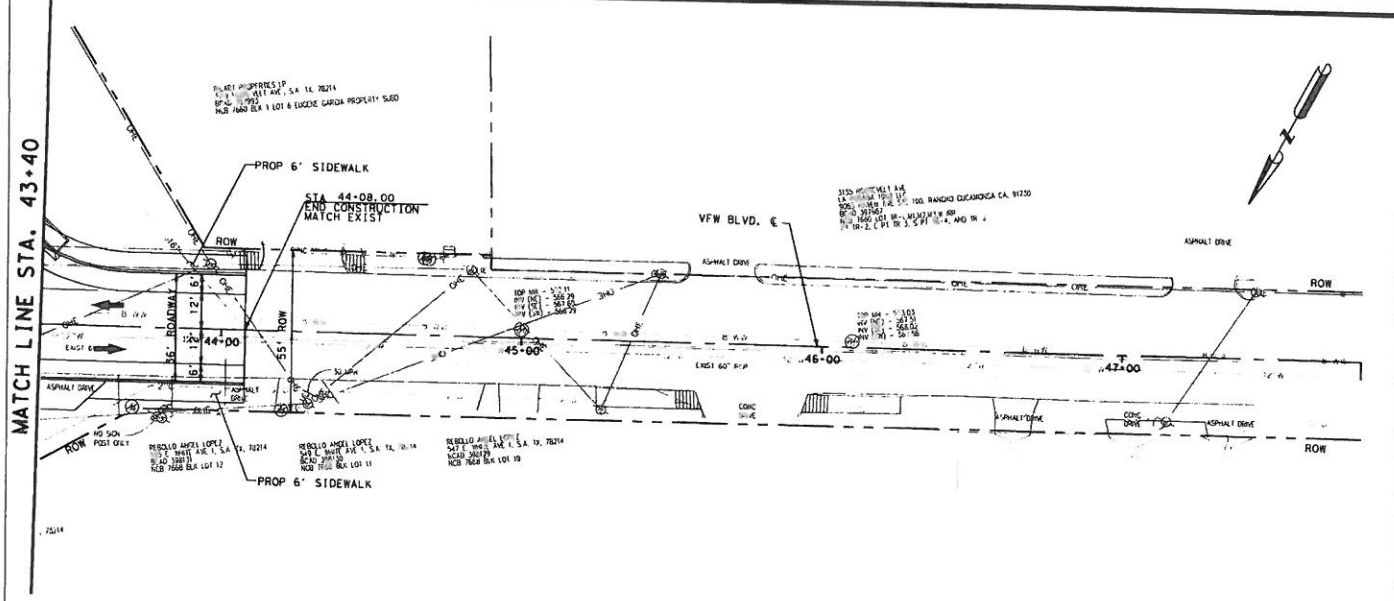

VFW BLVD.

LEGEND

- MILL/OVERLAY LIMITS
- DRIVEWAY NUMBER
- C-1 CURVE NUMBER
- PROP. CONCRETE
- PROP. SODDING
- EXIST TREE CANOPY
- EXIST PROPERTY LINE
- RET WALL
- FLOW DIRECTION
- WIRE FENCE

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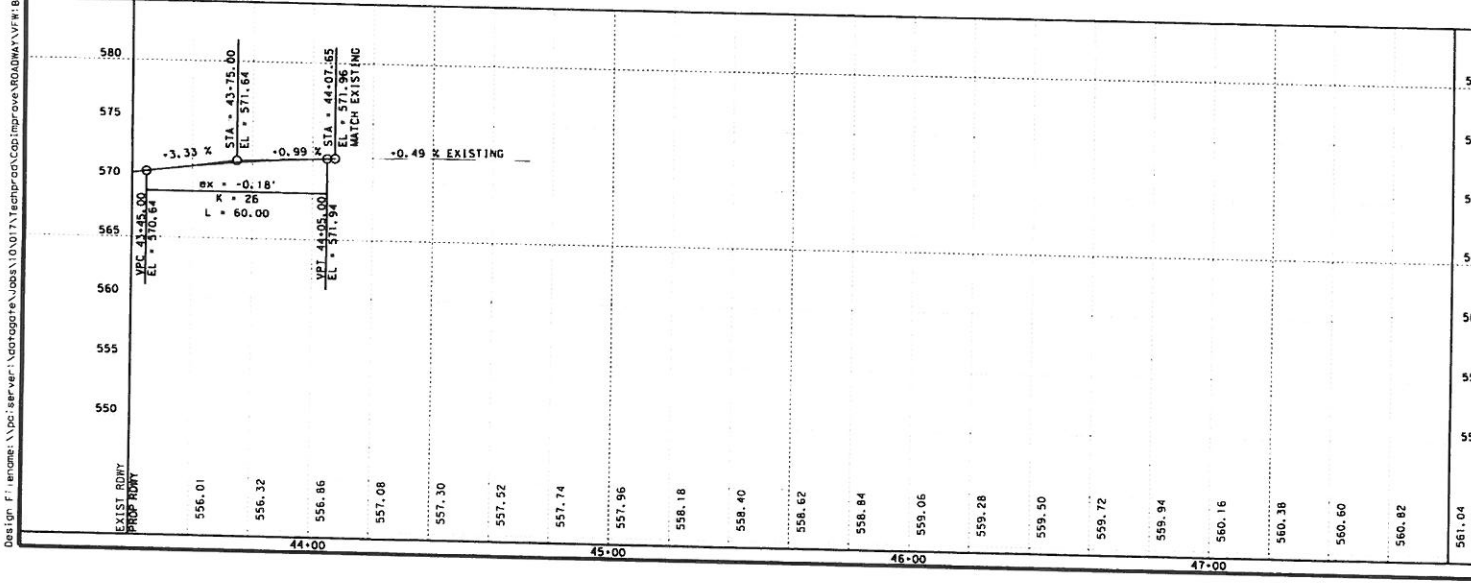
40% SUBMITTAL



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Engineer: FERNANDO CAMARILLO
P.E. Serial No.: 86882
Date: 10/28/2011

BEXAR COUNTY
PUBLIC WORKS DEPARTMENT
FLOOD CONTROL DIVISION

NO	DATE	DESCRIPTION	DWG	CHK
		REVISIONS		

VFW BLVD SEGMENT 2

ROADWAY
PLAN AND PROFILE
VFW BLVD.

0 10 20 40
SCALE: 1"=40' HORIZ
1"=10' VERT

POZNECKI CAMARILLO INC

DGN:				
CHK DGN:	FC			
DWG:		STATE	COUNTY	SHEET NO.
CHK DWG:	FC	TEXAS	BEXAR	15 OF 100

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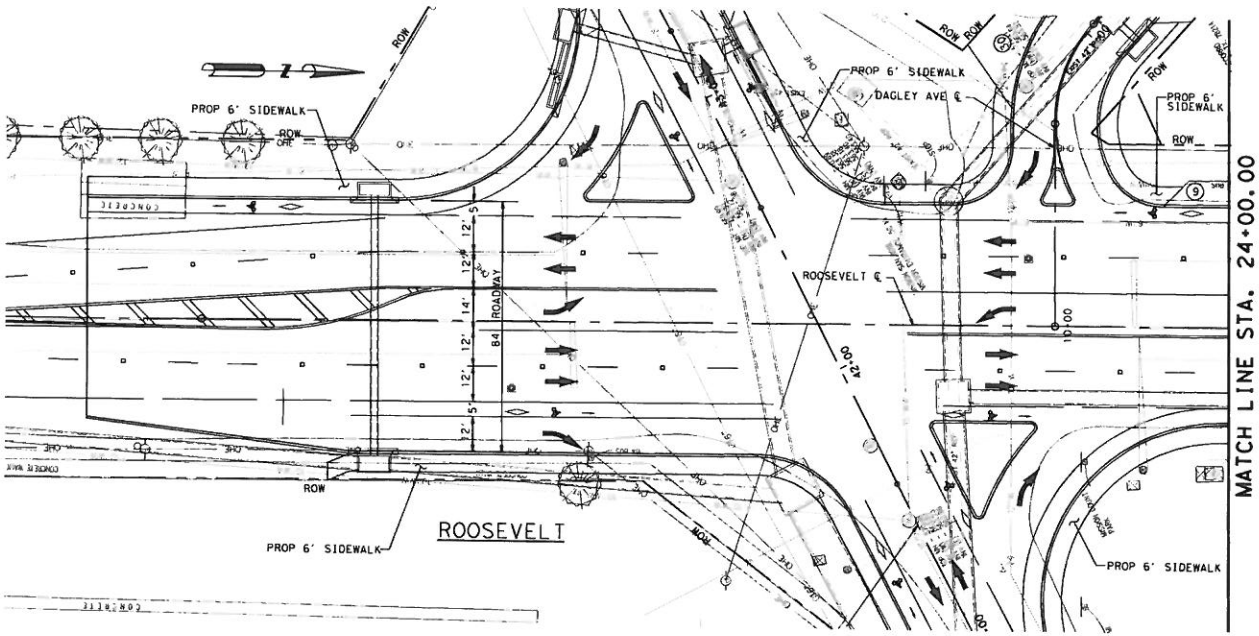

LEGEND

- MILL/OVERLAY LIMITS
- DRIVEWAY NUMBER
- C-1 CURVE NUMBER
- PROP. CONCRETE
- PROP. SODDING
- EXIST TREE CANOPY
- EXIST PROPERTY LINE
- RET WALL
- FLOW DIRECTION
- x WIRE FENCE

NOTES:

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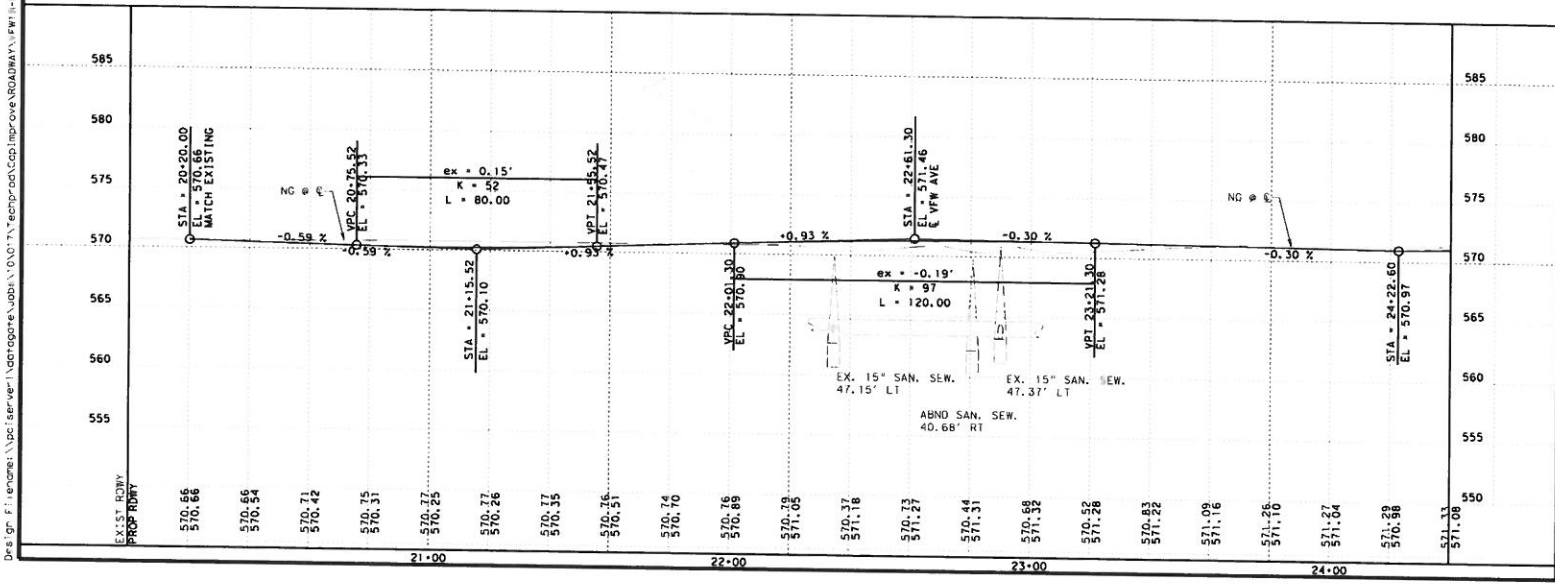

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Engineer: FERNANDO CAMARILLO
P.E. Serial No.: 86882
Date: 10/28/2011

BEXAR COUNTY
PUBLIC WORKS DEPARTMENT
FLOOD CONTROL DIVISION

NO	DATE	DESCRIPTION	DWG	CHK
		REVISIONS		

VFW BLVD SEGMENT 2

ROADWAY PLAN AND PROFILE ROOSEVELT AVE

0 10 20 40

SCALE: 1"=40' HORIZ
1"=10' VERT

POZNECKI INC CAMARILLO

DGN:				
CHK DGN:	FC			
DWG:		STATE	COUNTY	SHEET NO.
CHK DWG:	FC	TEXAS	BEXAR	16 OF 100

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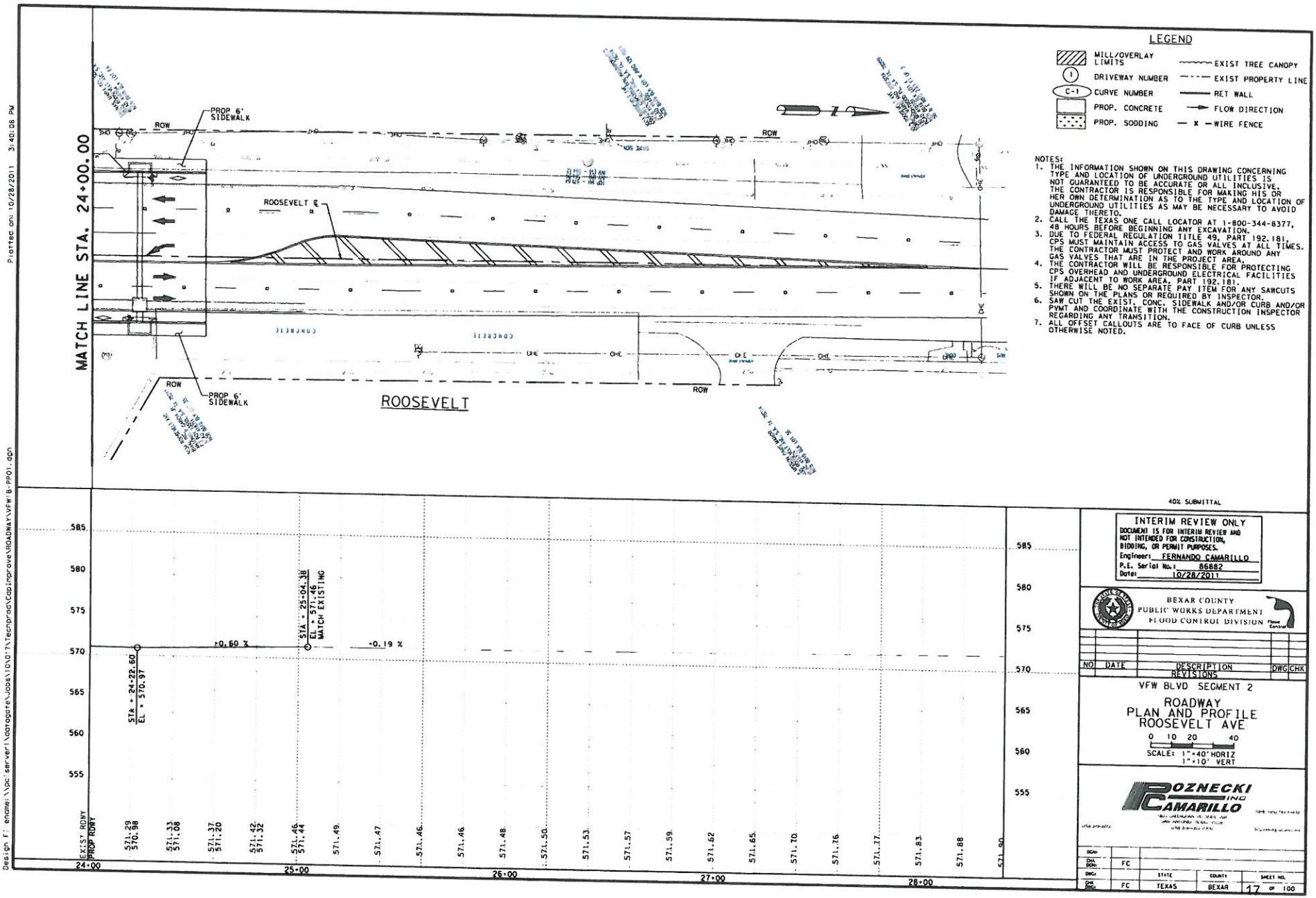

LEGEND

- MILL/OVERLAY LIMITS
- DRIVEWAY NUMBER
- C-1 CURVE NUMBER
- PROP. CONCRETE
- PROP. SODDING
- EXIST TREE CANOPY
- EXIST PROPERTY LINE
- RET WALL
- FLOW DIRECTION
- x — WIRE FENCE

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Engineer: FERNANDO CAMARILLO
P.E. Serial No.: 86882
Date: 10/28/2011

BEXAR COUNTY
PUBLIC WORKS DEPARTMENT
FLOOD CONTROL DIVISION

NO	DATE	DESCRIPTION	DWG	CHK
REVISIONS				

VFW BLVD SEGMENT 2

ROADWAY
PLAN AND PROFILE
ROOSEVELT AVE

0 10 20 40
SCALE: 1"=40' HORIZ
1"=10' VERT

POZNECKI CAMARILLO INC

DSN				
DSN. ENGR.	FC			
DWN	STATE	COUNTY	SHEET NO.	
CHK. ENGR.	FC	TEXAS	BEXAR	17 OF 100

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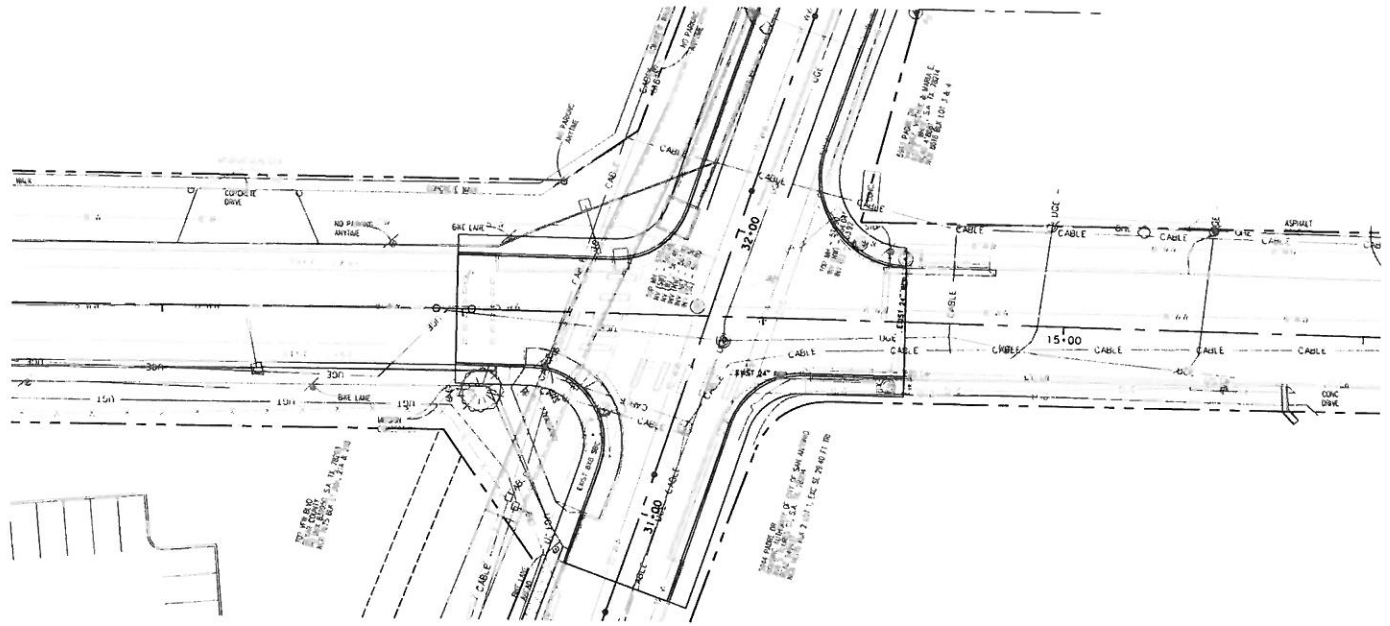

LEGEND

- MILL/OVERLAY LIMITS
- DRIVEWAY NUMBER (1)
- CURVE NUMBER (C-1)
- PROP. CONCRETE
- PROP. SODDING
- EXIST TREE CANOPY
- EXIST PROPERTY LINE
- RET WALL
- FLOW DIRECTION
- — x — WIRE FENCE

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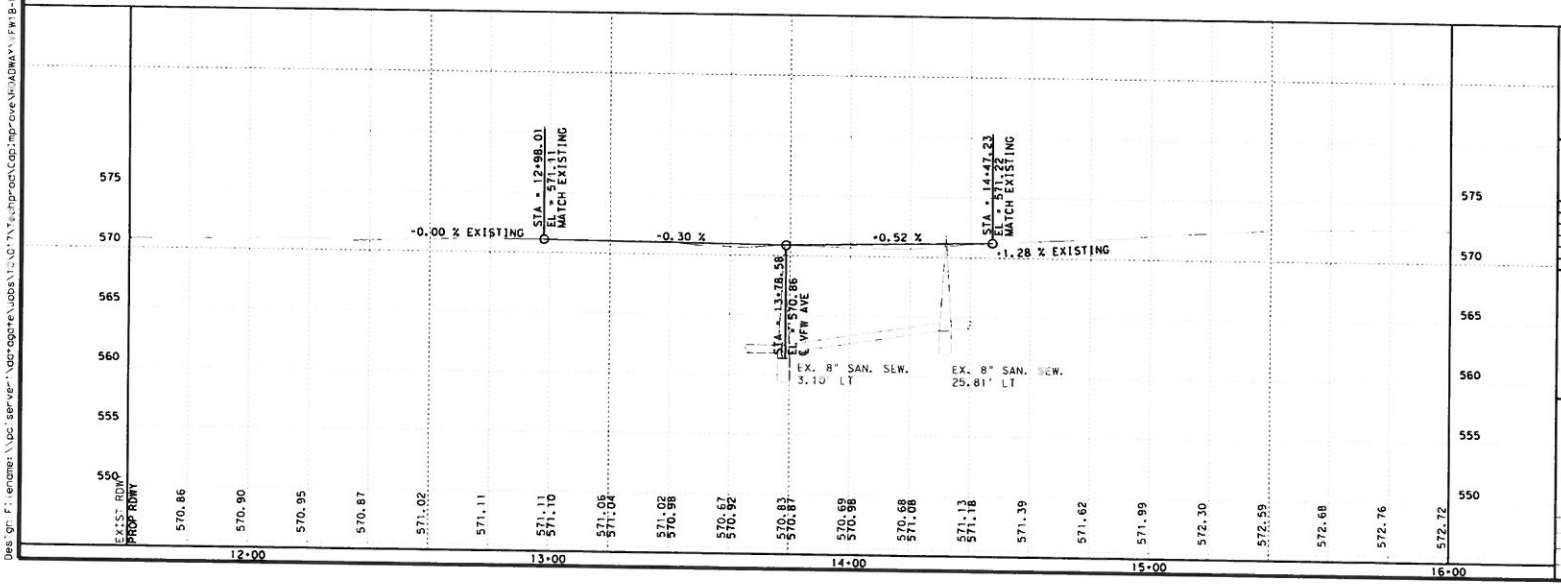

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Engineer: FERNANDO CAMARILLO
P.E. Serial No.: 86882
Date: 10/28/2011

BEXAR COUNTY
PUBLIC WORKS DEPARTMENT
FLOOD CONTROL DIVISION

NO	DATE	DESCRIPTION	DWG	CHK
		REVISIONS		

VFW BLVD SEGMENT 2

ROADWAY
PLAN AND PROFILE
PADRE DR

0 10 20 40
SCALE: 1"=40' HORIZ
1"=10' VERT

POZNECKI INC CAMARILLO

DES:				
CHK DES:	FC			
DWG:		STATE	COUNTY	SHEET NO.
CHK DWG:	FC	TEXAS	BEXAR	18 OF 100

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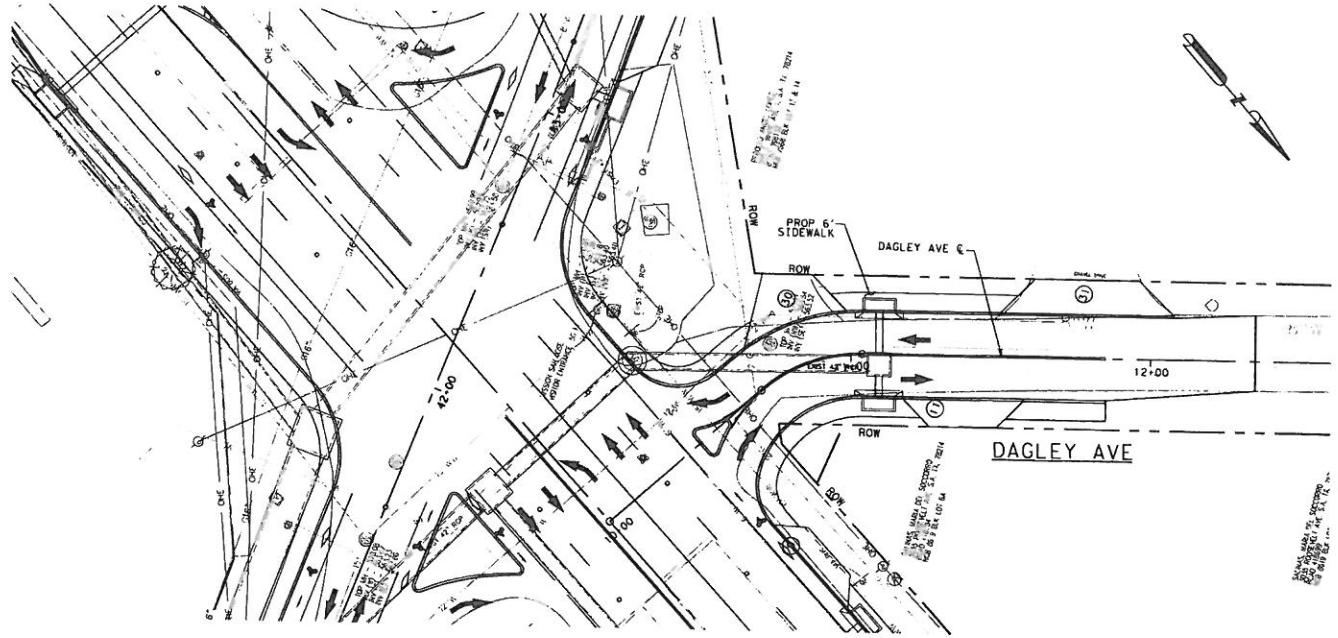

LEGEND

- MILL/OVERLAY LIMITS
- DRIVEWAY NUMBER
- C-1 CURVE NUMBER
- PROP. CONCRETE
- PROP. SODDING
- EXIST TREE CANOPY
- EXIST PROPERTY LINE
- RET WALL
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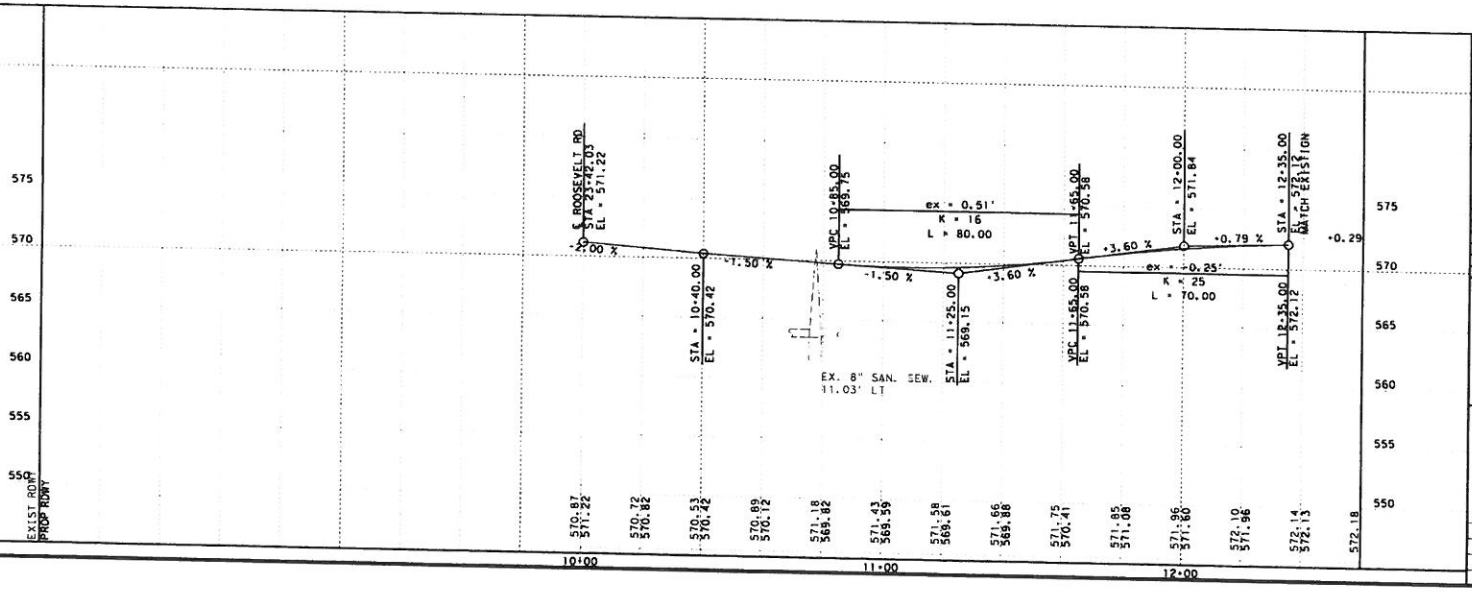

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Engineer: FERNANDO CAMARILLO
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BEXAR COUNTY
PUBLIC WORKS DEPARTMENT
FLOOD CONTROL DIVISION

NO	DATE	DESCRIPTION	DWG	CHK
		REVISIONS		

VFW BLVD SEGMENT 2

ROADWAY PLAN AND PROFILE DAGLEY AVE

0 10 20 40
SCALE: 1"=40' HORIZ
1"=10' VERT

POZNECKI INC CAMARILLO

DGN				
CHK DGN	FC			
DWG		STATE	COUNTY	SHEET NO.
CHK DWG	FC	TEXAS	BEXAR	19 OF 100

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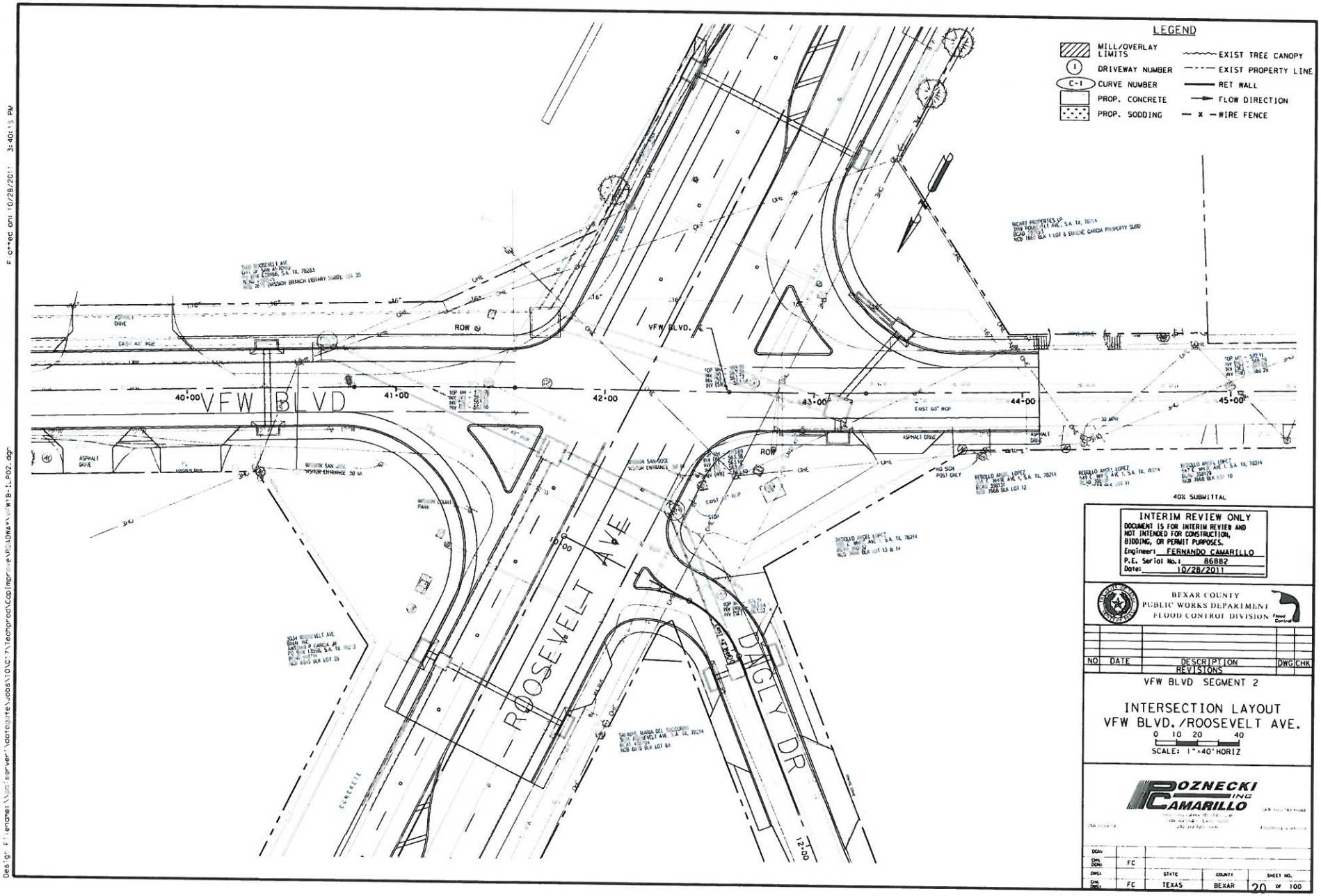

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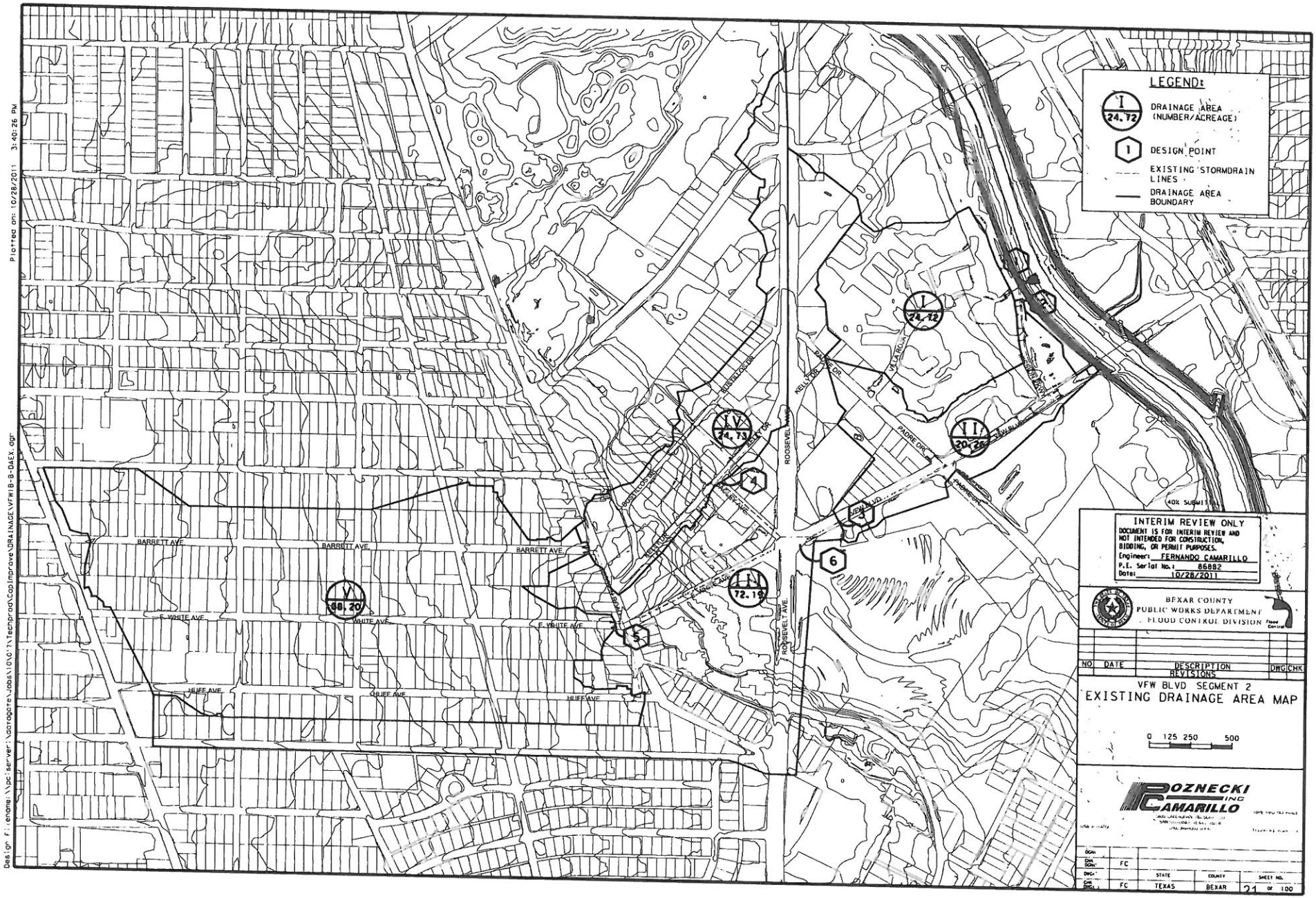

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DRAINAGE AREAS - EXISTING CONDITIONS

Area ID	Area (ac.)	Runoff Coefficient	Tc (min)	Bexar County									TXDOT		
				$C_{f\ 5yr}$	I_{5yr} (in/hr)	Q_{5yr} (cfs)	$C_{f\ 25yr}$	I_{25yr} (in/hr)	Q_{25yr} (cfs)	$C_{f\ 100yr}$	I_{100yr} (in/hr)	Q_{100yr} (cfs)	$C_{f\ 10yr}$	I_{10yr} (in/hr)	Q_{10yr} (cfs)
I	24.72	0.67	21.88	1.00	4.49	74.36	1.10	5.90	107.56	1.25	7.64	158.21	1.00	5.50	91.13
II	20.26	0.73	28.86	1.00	3.88	57.35	1.10	5.10	83.00	1.25	6.27	115.95	1.00	4.69	69.32
III	72.19	0.75	60.00	1.00	2.46	133.19	1.10	3.32	197.73	1.25	4.35	294.40	1.00	2.93	158.55
IV	24.73	0.75	32.52	1.00	3.61	67.02	1.10	4.77	97.28	1.25	5.87	135.97	1.00	4.36	80.85
V	88.20	0.75	48.83	1.00	2.80	185.22	1.10	3.75	272.91	1.25	4.81	397.73	1.00	3.36	222.43

DESIGN POINTS - EXISTING CONDITION

Design Point	Drainage Areas	Area (ac.)	Runoff Coefficient	Tc (min)	Bexar County									TXDOT		
					$C_{f\ 5yr}$	I_{5yr} (in/hr)	Q_{5yr} (cfs)	$C_{f\ 25yr}$	I_{25yr} (in/hr)	Q_{25yr} (cfs)	$C_{f\ 100yr}$	I_{100yr} (in/hr)	Q_{100yr} (cfs)	$C_{f\ 10yr}$	I_{10yr} (in/hr)	Q_{10yr} (cfs)
1	I, II, IV, V	157.90	0.73	57.66	1.00	2.52	292.72	1.10	3.40	433.99	1.25	4.43	643.30	1.00	3.01	349.13
2	II, IV, V	133.18	0.75	57.66	1.00	2.52	250.94	1.10	3.40	372.04	1.25	4.43	551.48	1.00	3.01	299.29
3	IV, V	112.92	0.75	52.35	1.00	2.68	226.95	1.10	3.60	335.28	1.25	4.65	492.15	1.00	3.21	271.90
4	IV	24.73	0.75	32.52	1.00	3.61	67.02	1.10	4.77	97.28	1.25	5.87	135.97	1.00	4.36	80.85
5	V	88.20	0.75	48.83	1.00	2.80	185.22	1.10	3.75	272.91	1.25	4.81	397.73	1.00	3.36	222.43
6	III	72.19	0.75	60.00	1.00	2.46	133.19	1.10	3.32	197.73	1.25	4.35	294.40	1.00	2.93	158.55

TIME OF CONCENTRATION CALCULATIONS (EXISTING CONDITIONS)

Design Point	OVERLAND FLOW - TR-55				SHALLOW CONCENTRATED FLOW - FIG. 3-1 TR-55								CHANNEL FLOW/PIPE FLOW				Total Time (min)
					UNPAVED				PAVED								
	Length (ft)	Slope (%)	C	Time (min)	Length (ft)	Slope (%)	Velocity (fps)	Time (min)	Length (ft)	Slope (%)	Velocity (fps)	Time (min)	Slope (%)	Velocity (fps)	Length (ft)	Time (min)	
1	300.00	0.54	0.73	19.50	641.00	0.55	1.20	8.90	2451.00	0.98	2.00	20.43	-	7.00	3710.00	8.83	57.66
2	300.00	0.54	0.75	19.50	641.00	0.55	1.20	8.90	2451.00	0.98	2.00	20.43	-	7.00	3710.00	8.83	57.66
3	300.00	0.54	0.75	19.50	641.00	0.55	1.20	8.90	2451.00	0.98	2.00	20.43	-	7.00	3710.00	8.83	57.66
4	300.00	1.45	0.75	6.25	-	-	-	-	2190.00	0.50	1.45	25.17	-	7.00	1480.00	3.52	52.35
5	300.00	0.54	0.75	19.50	641.00	0.55	1.20	8.90	2451.00	0.98	2.00	20.43	-	7.00	460.00	1.10	32.52
6	180.00	0.50	0.75	16.50	-	-	-	-	4580.00	0.80	1.75	43.62	-	-	-	-	48.83
																	60.00

WEIGHTED C-VALUE CALCULATIONS (EXISTING CONDITIONS)

Design Point	Drainage Areas	Total Area (ac.)	MF, R-4 0-1%	MF, R-4 1-3%	COMM 0-1%	COMM 1-3%	Weighted C_f	Total C*A
1	I, II, IV, V	157.90	0.73				0.73	116.04
2	II, IV, V	133.18	0.75				0.75	99.48
3	IV, V	112.92	0.75				0.75	84.69
4	IV	24.73	0.75				0.75	18.54
5	V	88.20	0.75				0.75	66.15
6	III	72.19	0.75				0.75	54.14

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Date: 10/28/2011

BEXAR COUNTY
PUBLIC WORKS DEPARTMENT
FLOOD CONTROL DIVISION

NO	DATE	DESCRIPTION REVISIONS	DWG	CHK

VFW BLVD SEGMENT 2

EXISTING DRAINAGE AREA MAP CALCULATIONS

0 125 250 500

POZNECKI CAMARILLO INC

DSGN				
CHK DSGN	FC			
DRGN		STATE	COUNTY	SHEET NO.
CHK DRGN	FC	TEXAS	BEXAR	22 OF 100

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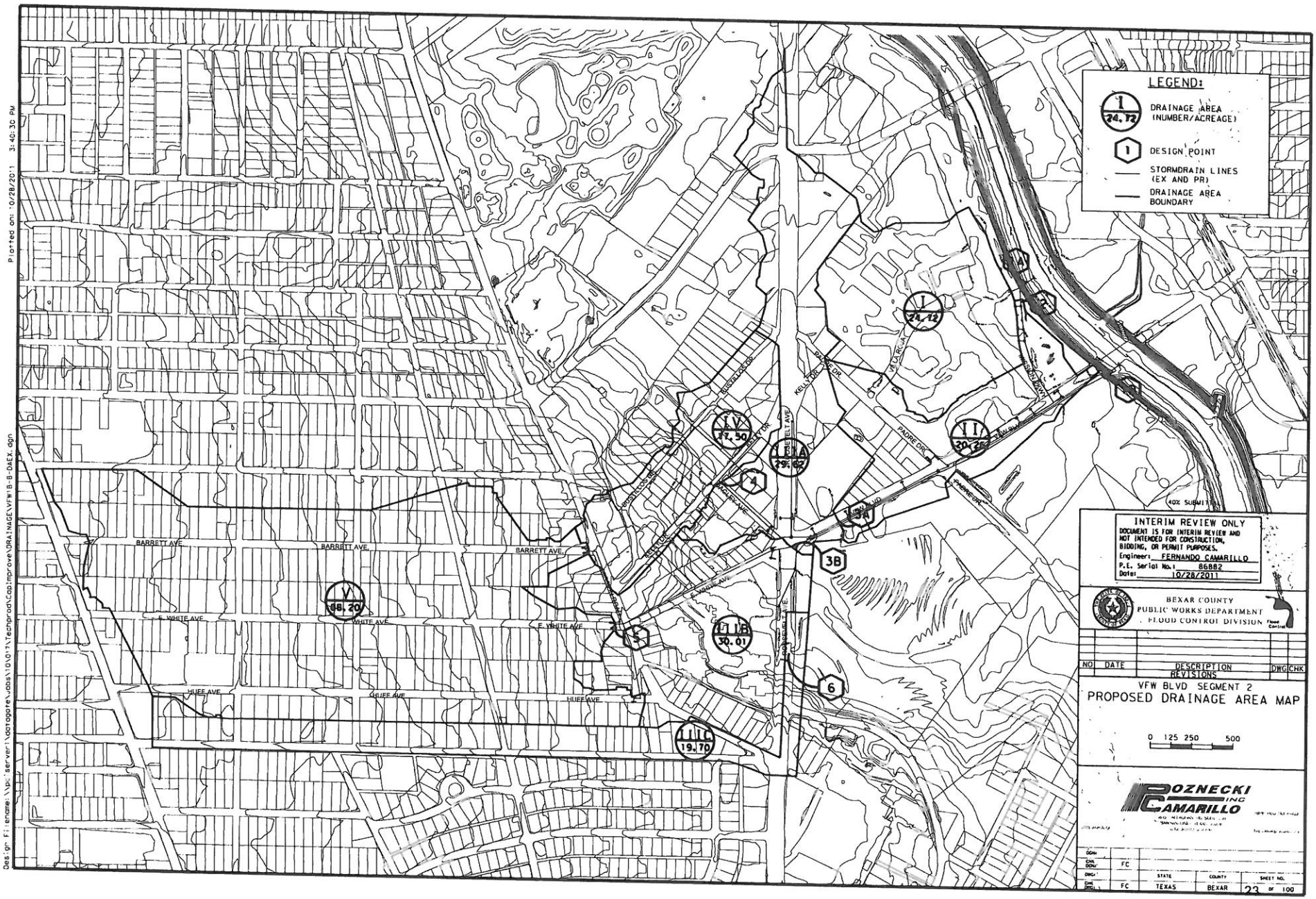

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DRAINAGE AREAS - PROPOSED CONDITIONS

Area ID	Area (ac.)	Runoff Coefficient	Tc (min)	Bexar County									TXDOT		
				$C_{f\,5yr}$	I_{5yr} (in/hr)	Q_{5yr} (cfs)	$C_{f\,25yr}$	I_{25yr} (in/hr)	Q_{25yr} (cfs)	$C_{f\,100yr}$	I_{100yr} (in/hr)	Q_{100yr} (cfs)	$C_{f\,10yr}$	I_{10yr} (in/hr)	Q_{10yr} (cfs)
I	24.72	0.67	21.88	1.00	4.49	74.36	1.10	5.90	107.56	1.25	7.64	158.21	1.00	5.50	91.13
II	20.26	0.73	28.86	1.00	3.88	57.35	1.10	5.10	83.00	1.25	6.27	115.95	1.00	4.69	69.32
IIIA	29.62	0.75	31.03	1.00	3.72	82.66	1.10	4.90	119.79	1.25	6.00	166.62	1.00	4.49	99.67
IIIB	30.01	0.75	26.44	1.00	4.06	91.43	1.10	5.34	132.29	1.25	6.68	187.85	1.00	4.94	111.12
IIIC	19.70	0.75	60.00	1.00	2.46	36.35	1.10	3.32	53.96	1.25	4.35	80.34	1.00	2.93	43.27
IV	17.50	0.75	23.85	1.00	4.29	56.30	1.10	5.64	81.44	1.25	7.19	117.89	1.00	5.24	68.77
V	88.20	0.75	48.83	1.00	2.80	185.22	1.10	3.75	272.91	1.25	4.81	397.73	1.00	3.36	222.43

DESIGN POINTS - PROPOSED CONDITION

Design Point	Drainage Areas	Area (ac.)	Runoff Coefficient	Tc (min)	Bexar County									TXDOT		
					$C_{f\,5yr}$	I_{5yr} (in/hr)	Q_{5yr} (cfs)	$C_{f\,25yr}$	I_{25yr} (in/hr)	Q_{25yr} (cfs)	$C_{f\,100yr}$	I_{100yr} (in/hr)	Q_{100yr} (cfs)	$C_{f\,10yr}$	I_{10yr} (in/hr)	Q_{10yr} (cfs)
1A	I, II, IIIA, IV	92.10	0.72	36.51	1.00	3.36	224.13	1.10	4.45	326.72	1.25	5.54	462.14	1.00	4.06	270.59
1B	IIIB, V	118.21	0.75	56.94	1.00	2.54	225.43	1.10	3.43	334.04	1.25	4.46	494.53	1.00	3.03	269.01
2	II, IIIA, IV	67.38	0.74	36.10	1.00	3.38	169.64	1.10	4.48	247.18	1.25	5.57	349.24	1.00	4.09	204.81
3A	IIIA, IV	47.12	0.75	31.03	1.00	3.72	131.49	1.10	4.90	190.57	1.25	6.00	265.06	1.00	4.49	158.55
3B	IIIB, V	118.21	0.75	51.56	1.00	2.71	239.86	1.10	3.63	354.14	1.25	4.68	519.05	1.00	3.24	287.53
4	IV	17.50	0.75	23.85	1.00	4.29	56.30	1.10	5.64	81.44	1.25	7.19	117.89	1.00	5.24	68.77
5	V	88.20	0.75	48.83	1.00	2.80	185.22	1.10	3.75	272.91	1.25	4.81	397.73	1.00	3.36	222.43
6	IIIC	19.70	0.75	60.00	1.00	2.46	36.35	1.10	3.32	53.96	1.25	4.35	80.34	1.00	2.93	43.27

TIME OF CONCENTRATION CALCULATIONS (PROPOSED CONDITIONS)

Design Point	OVERLAND FLOW - TR-55				SHALLOW CONCENTRATED FLOW - FIG. 3-1 TR-55								CHANNEL FLOW				Total Time (min)
					UNPAVED				PAVED								
	Length (ft)	Slope (%)	C	Time (min)	Length (ft)	Slope (%)	Velocity (fps)	Time (min)	Length (ft)	Slope (%)	Velocity (fps)	Time (min)	Slope (%)	Velocity (fps)	Length (ft)	Time (min)	
1A	300.00	0.500	0.72	20.00	336.34	0.500	1.15	4.87	200.00	0.500	1.45	2.30	-	7.00	3920.00	9.33	36.51
1B	300.00	0.540	0.75	19.50	641.00	0.550	1.20	8.90	2451.00	0.980	2.00	20.43	-	7.00	3405.30	8.11	56.94
2	300.00	0.500	0.75	20.00	336.34	0.500	1.15	4.87	200.00	0.500	1.45	2.30	-	7.00	3750.00	8.93	36.10
3A	300.00	0.500	0.75	20.00	336.34	0.500	1.15	4.87	200.00	0.500	1.45	2.30	-	7.00	1620.00	3.86	31.03
3B	300.00	0.540	0.75	19.50	641.00	0.550	1.20	8.90	2451.00	0.980	2.00	20.43	-	7.00	1147.30	2.73	51.56
4	300.00	0.500	0.75	20.00	205.00	0.500	1.15	2.97	-	-	-	-	-	7.00	370.00	0.88	23.85
5	300.00	0.540	0.75	19.50	641.00	0.550	1.20	8.90	2451.00	0.980	2.00	20.43	-	-	-	-	48.83
6	180.00	0.500	0.75	16.50	-	-	-	-	4580.00	0.800	1.75	43.62	-	-	-	-	60.00

WEIGHTED C-VALUE CALCULATIONS (PROPOSED CONDITIONS)

Design Point	Drainage Areas	Total Area (ac.)	MF, R-4 0-1%	MF, R-4 1-3%	COMM 0-1%	COMM 1-3%	Weighted C_w	Total C*A
1A	I, II, IIIA, IV	92.10	0.72				0.72	66.69
1B	IIIB, V	118.21	0.75				0.75	88.65
2	II, IIIA, IV	67.38	0.74				0.74	50.13
3A	IIIA, IV	47.12	0.75				0.75	35.34
3B	IIIB, V	118.21	0.75				0.75	88.65
4	IV	17.50	0.75				0.75	13.13
5	V	88.20	0.75				0.75	66.15
6	IIIC	19.70	0.75				0.75	14.78

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P.E. Serial No.: 86882
Date: 10/28/2011

BEXAR COUNTY
PUBLIC WORKS DEPARTMENT
FLOOD CONTROL DIVISION

NO	DATE	DESCRIPTION	DWG	CHK
		REVISIONS		

VFW BLVD SEGMENT 2

PROPOSED DRAINAGE AREA MAP CALCULATIONS

0 125 250 500

POZNECKI CAMARILLO INC

DGN:				
CHK DGN:	FC			
DWG:		STATE	COUNTY	SHEET NO.
CHK DWG:	FC	TEXAS	BEXAR	24 OF 100

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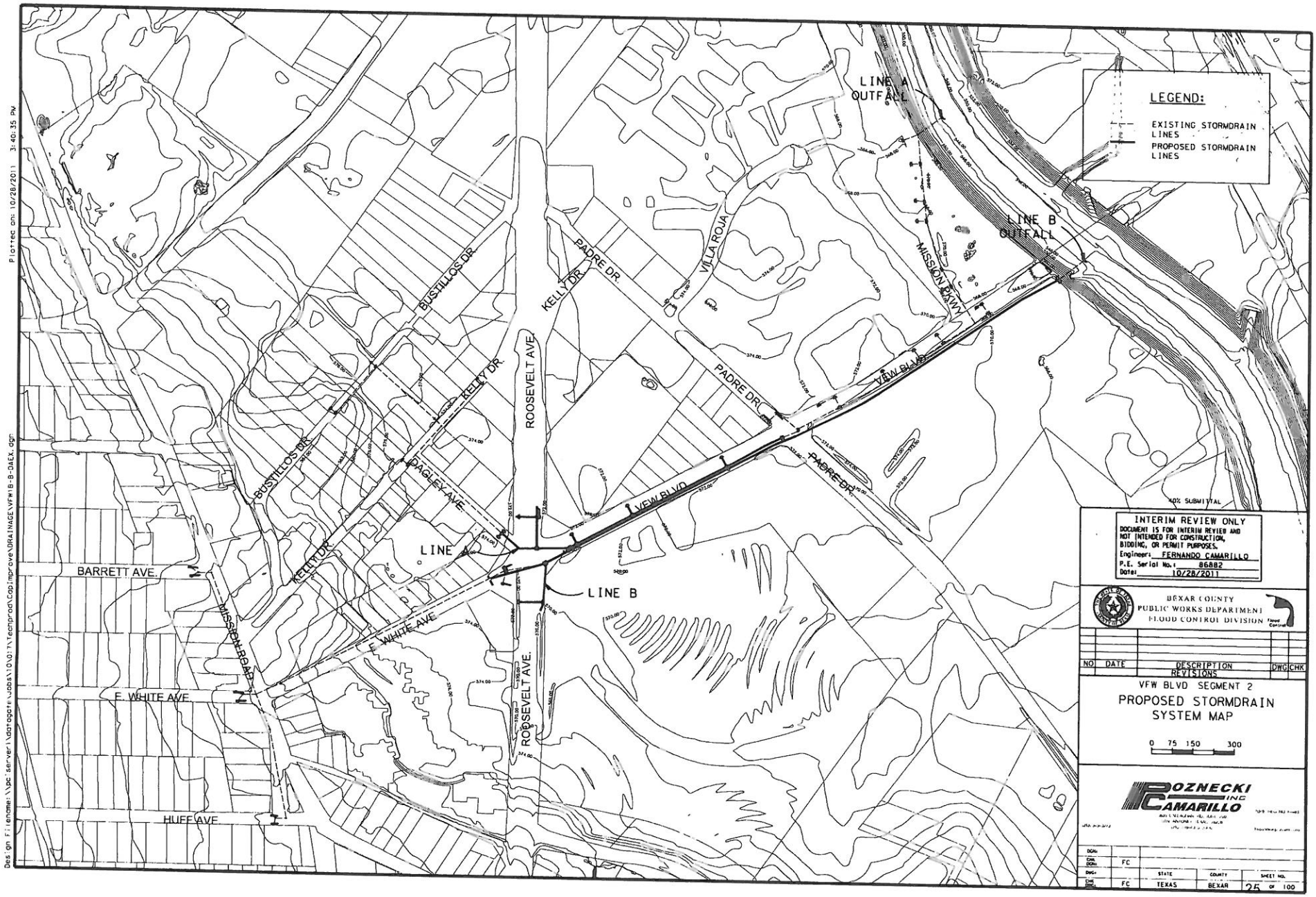

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LEGEND:

- I / 24.72 — DRAINAGE AREA (NUMBER/ACREAGE)
- 1 — DESIGN POINT
- EXISTING STORMDRAIN LINES
- DRAINAGE AREA BOUNDARY

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Date: 10/28/2011

BEXAR COUNTY
PUBLIC WORKS DEPARTMENT
FLOOD CONTROL DIVISION

NO	DATE	DESCRIPTION	DWG	CHK
		REVISIONS		

VFW BLVD SEGMENT 2

INTERIOR DRAINAGE AREA MAP

0 125 250 500

POZNECKI CAMARILLO INC

DGN:				
CHK DGN:	FC			
DWG:		STATE	COUNTY	SHEET NO.
CHK DWG:	FC	TEXAS	BEXAR	26 OF 100

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Engineer: FERNANDO CAMARILLO
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Date: 10/28/2011

BEXAR COUNTY
PUBLIC WORKS DEPARTMENT
FLOOD CONTROL DIVISION

NO	DATE	DESCRIPTION	DWG	CHK
		REVISIONS		

VFW BLVD SEGMENT 2

STORM DRAINAGE CALCULATIONS

0 125 250 500

POZNECKI INC CAMARILLO

DGN:				
CHK DGN:	FC			
DWG:		STATE	COUNTY	SHEET NO.
CHK DWG:	FC	TEXAS	BEXAR	27 OF 100

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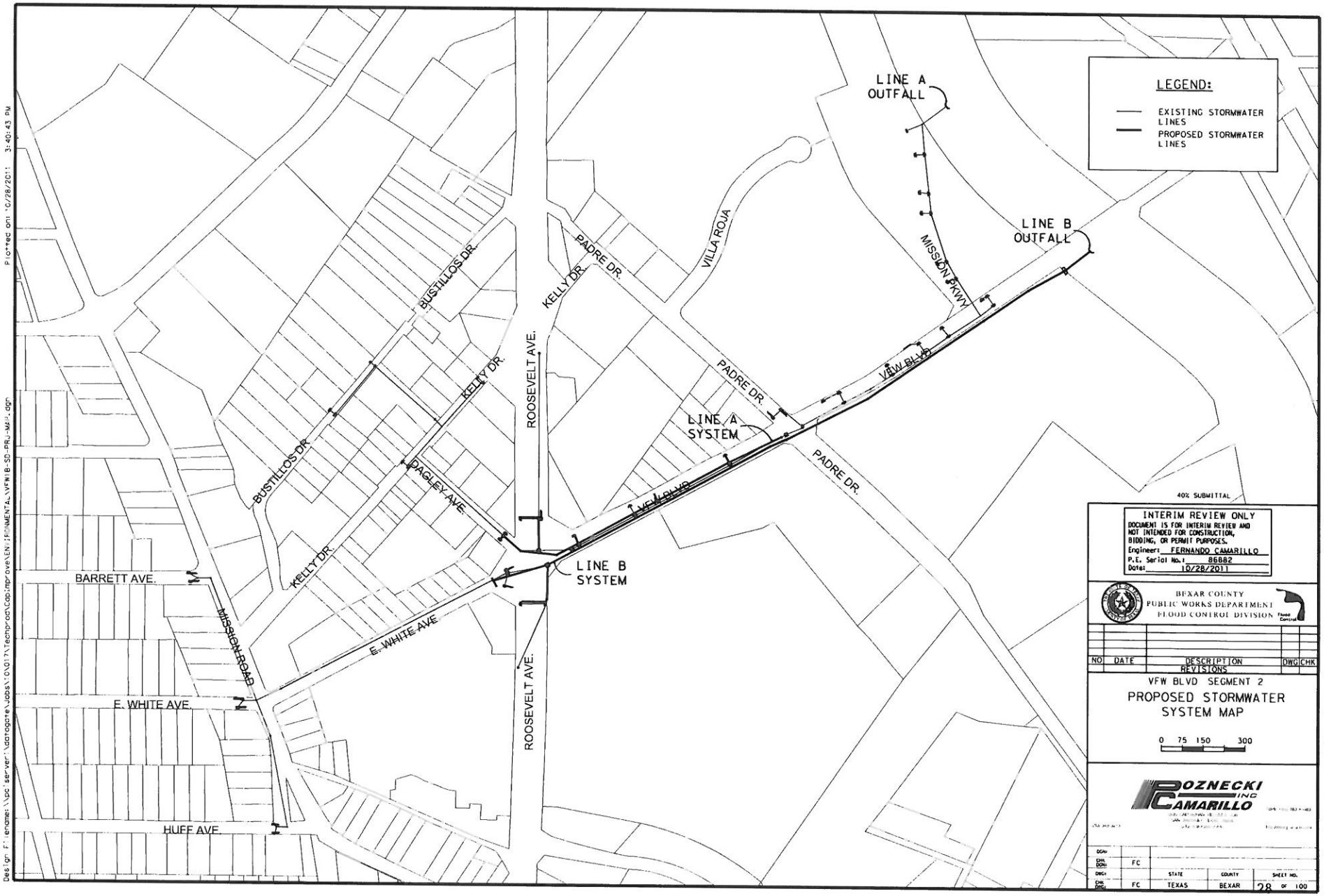
LEGEND:
EXISTING STORMWATER LINES
PROPOSED STORMWATER LINES
LINE A OUTFALL
LINE B OUTFALL
LINE A SYSTEM
LINE B SYSTEM
MISSION PKWY
VFW BLVD
PADRE DR.
VILLA ROJA
KELLY DR.
BUSTILLOS DR.
DAGLEY AVE.
ROOSEVELT AVE.
BARRETT AVE.
MISSION ROAD
E. WHITE AVE
HUFF AVE.
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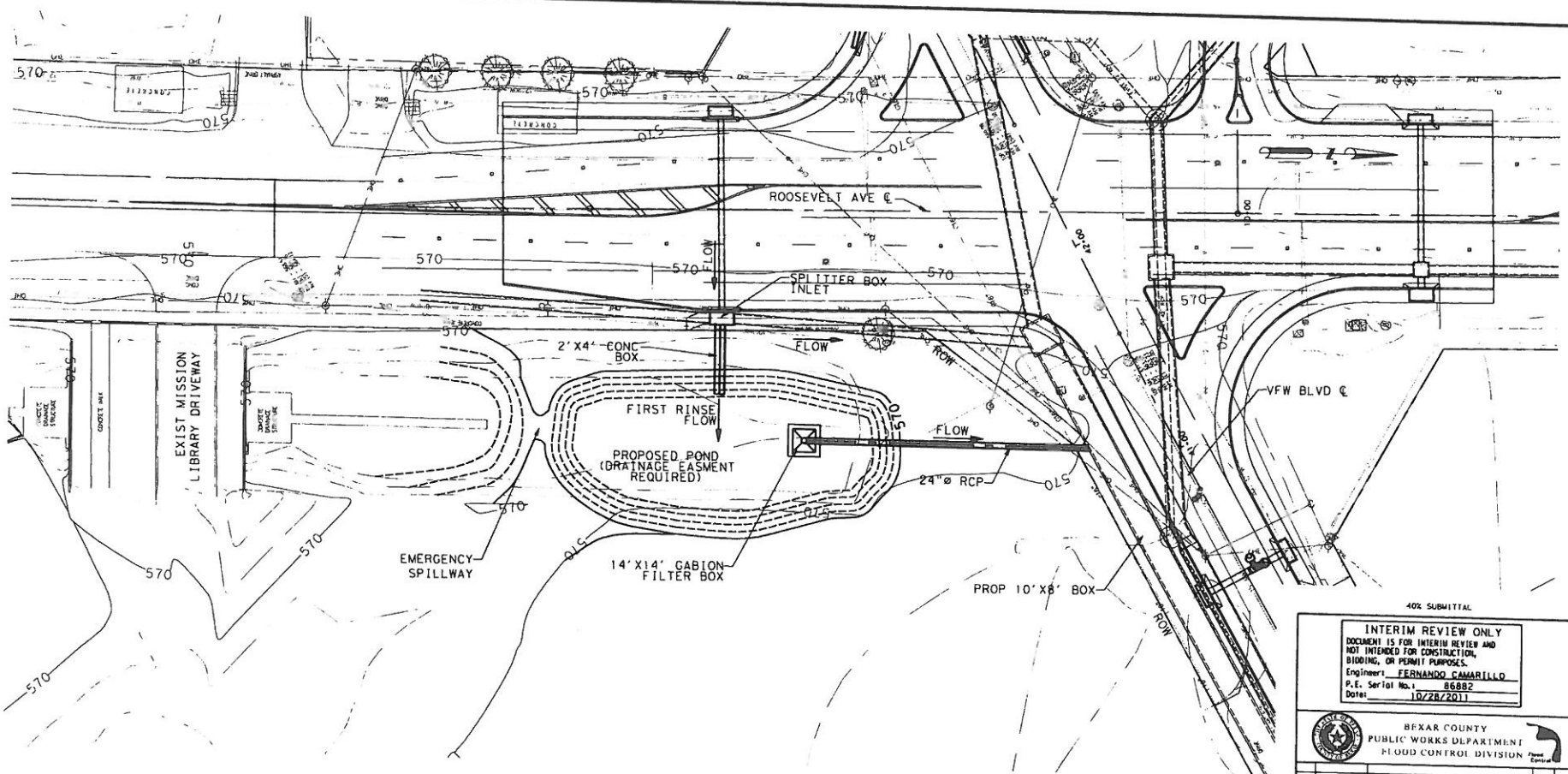
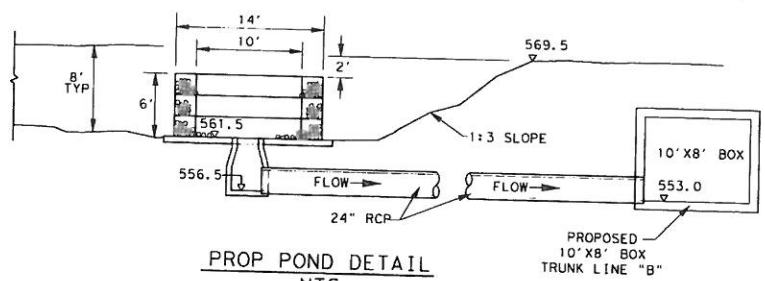
Engineer: FERNANDO CAMARILLO
P.E. Serial No.: 86882
Date: 10/28/2011
BEXAR COUNTY
PUBLIC WORKS DEPARTMENT
FLOOD CONTROL DIVISION
NO DATE DESCRIPTION DWG CHK
REVISIONS
VFW BLVD SEGMENT 2
PROPOSED STORMWATER SYSTEM MAP
0 75 150 300
POZNECKI INC CAMARILLO
STATE TEXAS
COUNTY BEXAR
SHEET NO. 28 OF 100





PROP POND DETAIL
NTS

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BEXAR COUNTY
PUBLIC WORKS DEPARTMENT
FLOOD CONTROL DIVISION

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		REVISIONS		

VFW BLVD SEGMENT 2

WATER QUALITY STORM DRAINAGE PLAN
ROOSEVELT AVE/VFW BLVD

0 15 30

POZNECKI CAMARILLO INC

DGN:				
CHK DGN:	FC			
DWG:		STATE	COUNTY	SHEET NO.
CHK DWG:	FC	TEXAS	BEXAR	29 OF 100

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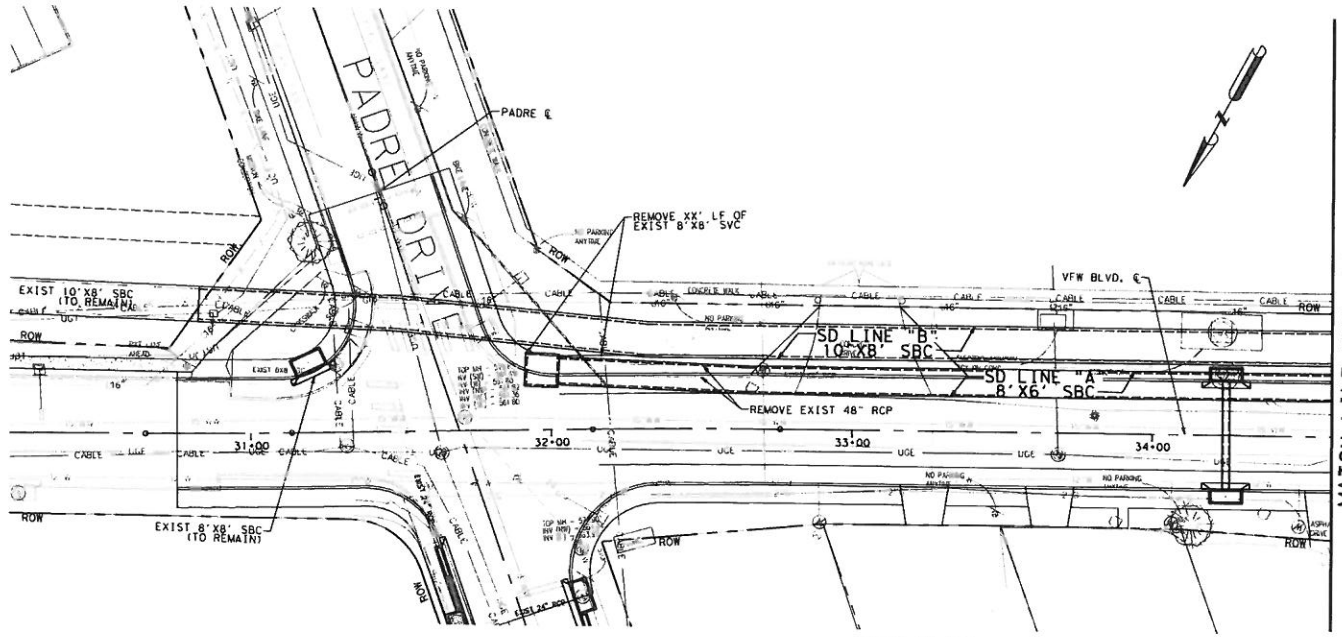
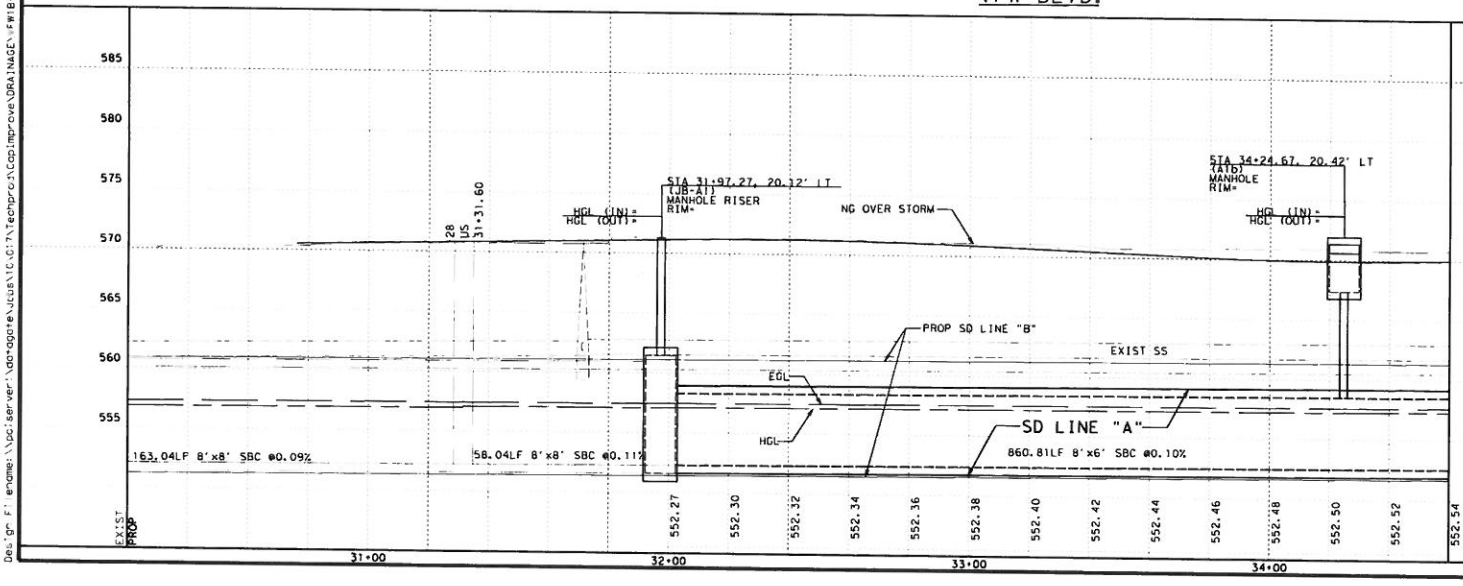


VFW BLVD.



NOTES:

1. ALL STORM DRAIN STATIONS ARE TO VFW BLVD BASELINE UNLESS OTHERWISE NOTED.
2. SEE STORM DRAIN LATERAL SHEETS FOR PROFILE INFORMATION OF PROPOSED LATERALS.
3. ALL STORM DRAINAGE PIPE SHALL BE RCP CLASS III UNLESS OTHERWISE NOTED ON THE DRAWINGS. ALL BENDS, TEES, AND WYES SHALL BE CONSIDERED SUBSIDIARY TO BID ITEMS FOR PIPE OR BOX.
4. ALL TRENCH EXCAVATION SHALL BE IN ACCORDANCE WITH THE U.S. DEPARTMENT OF OCCUPATIONAL HEALTH AND SAFETY ADMINISTRATION. THE CONTRACTOR IS REMINDED OF HIS RESPONSIBILITY TO PROVIDE A TRENCH SAFETY PLAN. THIS DOCUMENT SHALL BE SUBMITTED TO THE CITY AT THE PRE-CONSTRUCTION CONFERENCE.
5. LOCATIONS OF ALL UNDERGROUND UTILITIES IN THE VICINITY OF STORM DRAIN CONSTRUCTION SHALL BE UNCOVERED TO DETERMINE EXACT LOCATIONS PRIOR TO THE START OF CONSTRUCTION AT NO DIRECT PAYMENT.
6. ALL JOINTS SEALS, CONNECTIONS, AND MODIFICATIONS NECESSARY FOR PROPER INSTALLATION OF STORM DRAINAGE SYSTEMS SHALL BE SUBSIDIARY TO RCP AND BOX CULVERT BID ITEMS.
7. CONTROL POINTS FOR MANHOLES AND JUNCTION BOXES SHALL BE THE CENTER OF THE STRUCTURE BASE. CONTROL POINTS FOR CHANNEL HEADWALL INLETS SHALL BE AS SHOWN ON THE STANDARD DETAILS.
8. CONTROL POINTS FOR CURB INLETS SHALL BE THE MIDPOINT OF THE FACE OF CURB FOR CURB INLET ONLY (EXCLUDING INLET EXTENSIONS). TOP OF CURB INLET ELEVATIONS SHALL MATCH THE PROPOSED TOP OF CURB ELEVATIONS.
9. ALL RCP STORM DRAINAGE PIPE SHALL BE INSTALLED WITH A CLASS "C" EMBEDMENT UNLESS OTHERWISE SHOWN ON THE DRAWINGS. ALL BACKFILL AND EMBEDMENT SHALL BE SUBSIDIARY TO BID ITEM 401.
10. MANHOLE RISERS ARE SUBSIDIARY TO JUNCTION BOX MANHOLE AND INLET, BID ITEMS.
11. ALL OFFSET DISTANCES FOR EXISTING SANITARY SEWER ARE TO PROPOSED BASELINE.
12. BOX CULVERT SUBJECT TO DIRECT TRAFFIC LOADING DURING CONSTRUCTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH SCP-6 STANDARD FOR LESS THAN TWO FEET (2') OF FILL.

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P.E. Serial No.: 86882
Date: 10/28/2011

BEXAR COUNTY
PUBLIC WORKS DEPARTMENT
FLOOD CONTROL DIVISION

NO	DATE	DESCRIPTION	DWG	CHK
		REVISIONS		

VFW BLVD SEGMENT 2

STORM DRAIN LINE "A"
PLAN AND PROFILE
VFW BLVD

0 10 20 40
SCALE: 1"=40' HORIZ
1"=10' VERT

POZNECKI INC CAMARILLO

1 OF 4

DGN:				
CHK DGN:	FC			
DWG:		STATE	COUNTY	SHEET NO.
CHK DWG:	FC	TEXAS	BEXAR	30 OF 100

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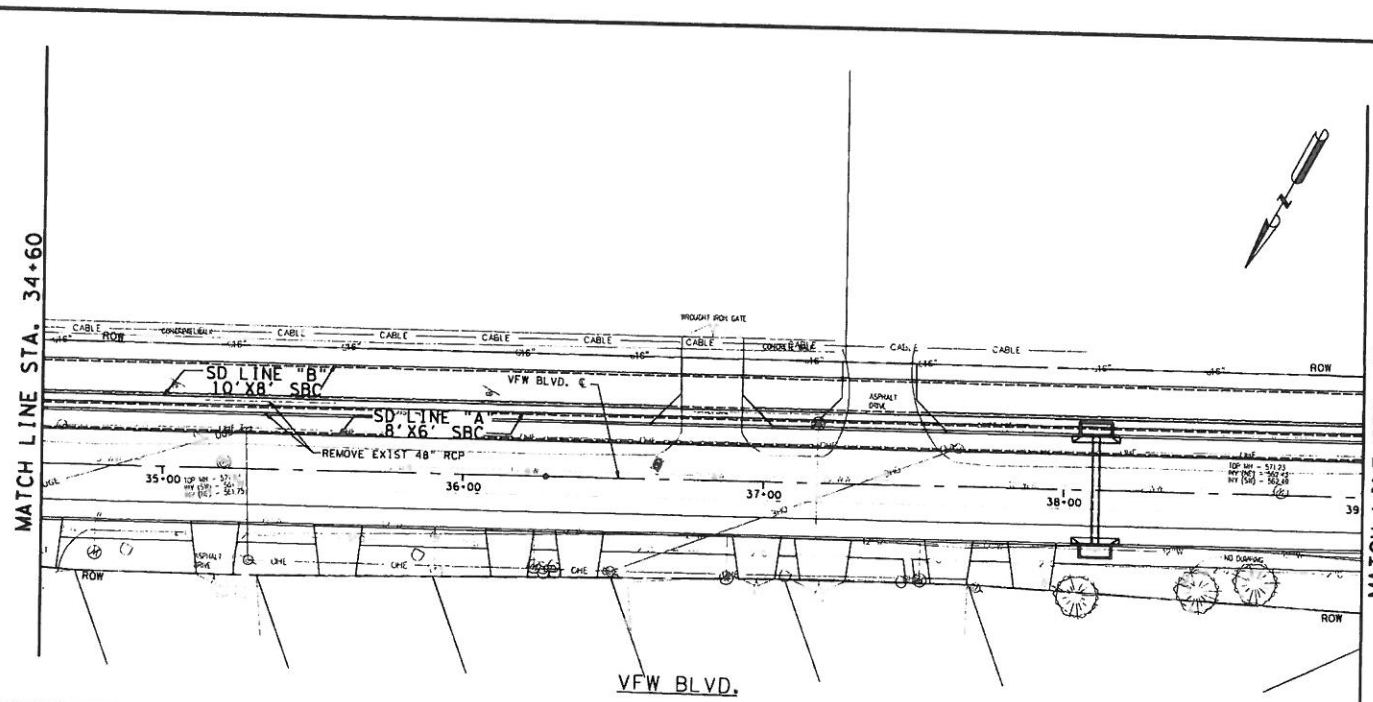

NOTES:

1. ALL STORM DRAIN STATIONS ARE TO VFW BLVD BASELINE UNLESS OTHERWISE NOTED.

2. SEE STORM DRAIN LATERAL SHEETS FOR PROFILE INFORMATION OF PROPOSED LATERALS.

3. ALL STORM DRAINAGE PIPE SHALL BE RCP CLASS III UNLESS OTHERWISE NOTED ON THE DRAWINGS. ALL BENDS, TEES, AND WYES SHALL BE CONSIDERED SUBSIDIARY TO BID ITEMS FOR PIPE OR BOX.

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9. ALL RCP STORM DRAINAGE PIPE SHALL BE INSTALLED WITH A CLASS 'C' EMBEDMENT UNLESS OTHERWISE SHOWN ON THE DRAWINGS. ALL BACKFILL AND EMBEDMENT SHALL BE SUBSIDIARY TO BID ITEM 401.

10. MANHOLE RISERS ARE SUBSIDIARY TO JUNCTION BOX MANHOLE AND INLET, BID ITEMS.

11. ALL OFFSET DISTANCES FOR EXISTING SANITARY SEWER ARE TO PROPOSED BASELINE.

12. BOX CULVERT SUBJECT TO DIRECT TRAFFIC LOADING DURING CONSTRUCTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH SCP-6 STANDARD FOR LESS THAN TWO FEET (<2) OF FILL.

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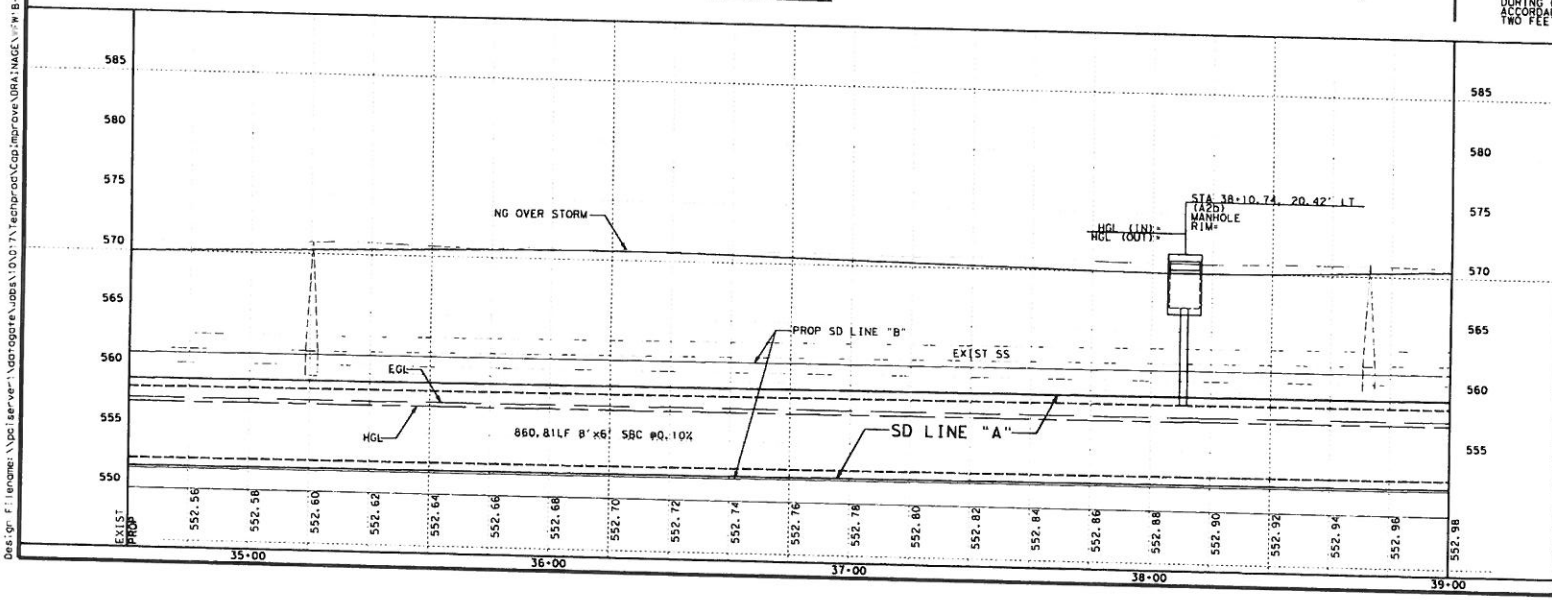

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P.E. Serial No.: 86882
Date: 10/28/2011

BEXAR COUNTY
PUBLIC WORKS DEPARTMENT
FLOOD CONTROL DIVISION

NO	DATE	DESCRIPTION	DWG	CHK
		REVISIONS		

VFW BLVD SEGMENT 2

STORM DRAIN LINE "A"
PLAN AND PROFILE
VFW BLVD

0 10 20 40
SCALE: 1"=40' HORIZ
1"=10' VERT

POZNECKI INC
CAMARILLO

2 OF 4

DCN:				
CHK DCN:	FC			
DWG:		STATE	COUNTY	SHEET NO.
CHK DWG:	FC	TEXAS	BEXAR	31 OF 100

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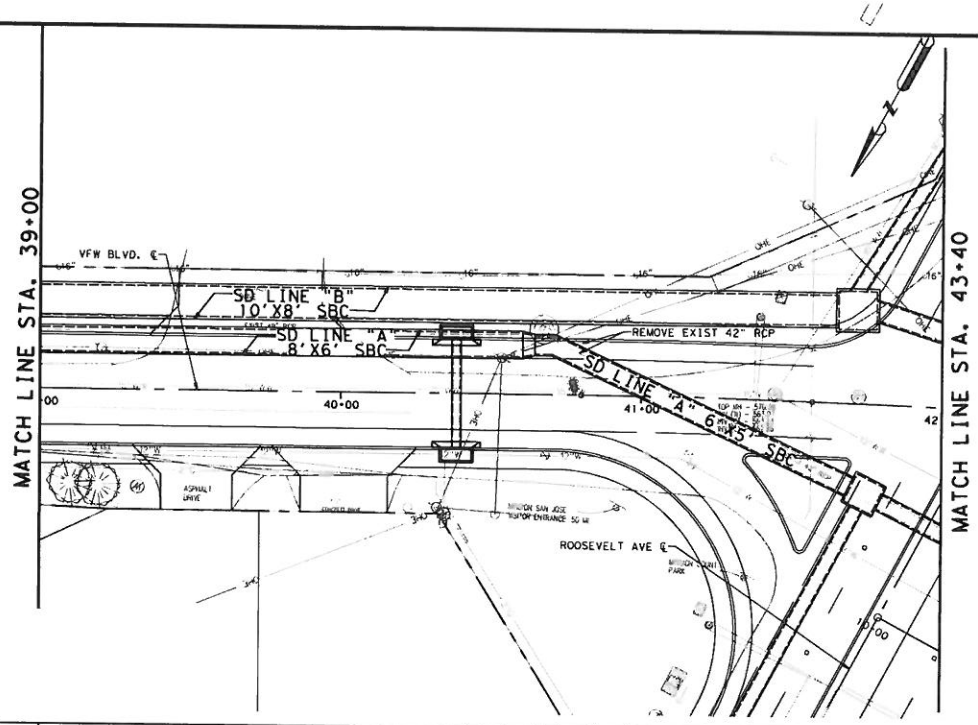

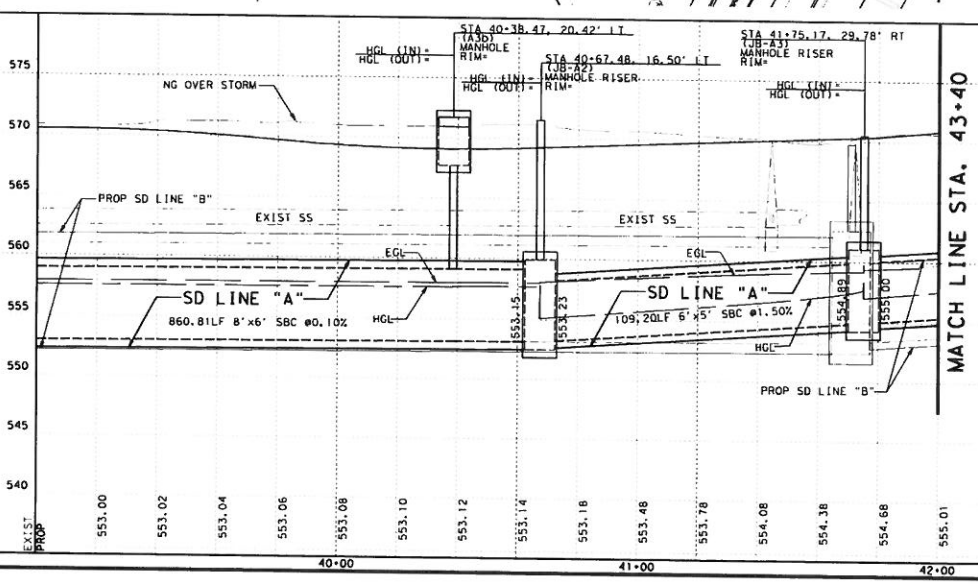

NOTES:

1. ALL STORM DRAIN STATIONS ARE TO VFW BLVD BASELINE UNLESS OTHERWISE NOTED.

2. SEE STORM DRAIN LATERAL SHEETS FOR PROFILE INFORMATION OF PROPOSED LATERALS.

3. ALL STORM DRAINAGE PIPE SHALL BE RCP CLASS III UNLESS OTHERWISE NOTED ON THE DRAWINGS. ALL BENDS, TEES, AND WYES SHALL BE CONSIDERED SUBSIDIARY TO BID ITEMS FOR PIPE OR BOX.

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5. LOCATIONS OF ALL UNDERGROUND UTILITIES IN THE VICINITY OF STORM DRAIN CONSTRUCTION SHALL BE UNCOVERED TO DETERMINE EXACT LOCATIONS PRIOR TO THE START OF CONSTRUCTION AT NO DIRECT PAYMENT.

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10. MANHOLE RISERS ARE SUBSIDIARY TO JUNCTION BOX MANHOLE AND INLET, BID ITEMS.

11. ALL OFFSET DISTANCES FOR EXISTING SANITARY SEWER ARE TO PROPOSED BASELINE.

12. BOX CULVERT SUBJECT TO DIRECT TRAFFIC LOADING DURING CONSTRUCTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH SCP-6 STANDARD FOR LESS THAN TWO FEET (<2) OF FILL.

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P.E. Serial No.: 86882
Date: 10/28/2011

BEXAR COUNTY
PUBLIC WORKS DEPARTMENT
FLOOD CONTROL DIVISION

NO	DATE	DESCRIPTION	DWG	CHK
		REVISIONS		

VFW BLVD SEGMENT 2

STORM DRAIN LINE "A"
PLAN AND PROFILE
VFW BLVD

0 10 20 40
SCALE: 1"=40' HORIZ
1"=10' VERT

POZNECKI INC
CAMARILLO

3 OF 4

DGN:				
CHK DGN:	FC			
DWG:		STATE	COUNTY	SHEET NO.
CHK DWG:	FC	TEXAS	BEXAR	32 OF 100

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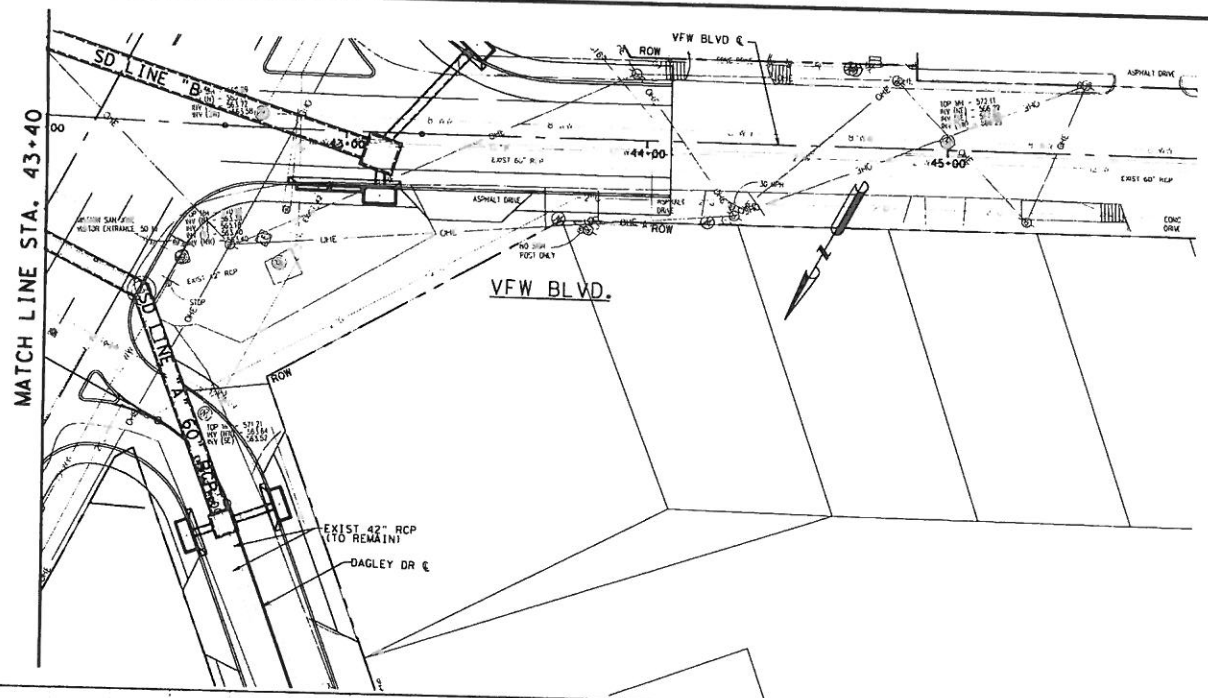

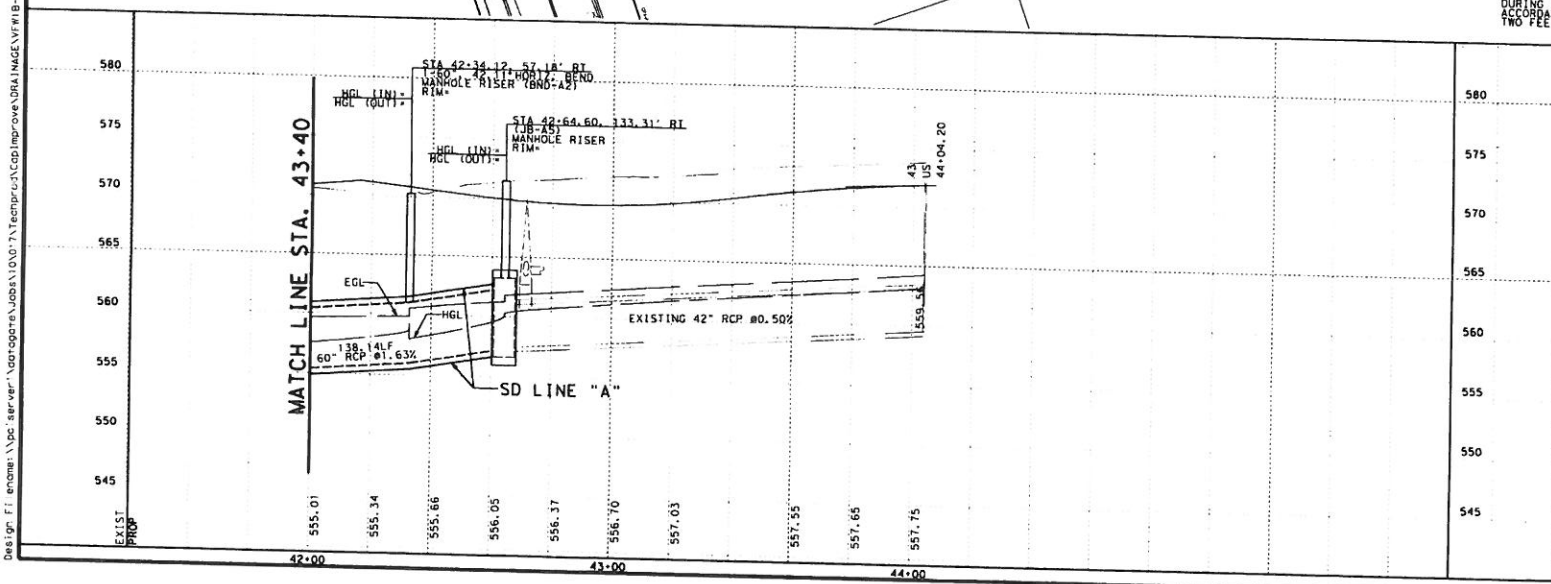

NOTES:

1. ALL STORM DRAIN STATIONS ARE TO VFW BLVD BASELINE UNLESS OTHERWISE NOTED.

2. SEE STORM DRAIN LATERAL SHEETS FOR PROFILE INFORMATION OF PROPOSED LATERALS.

3. ALL STORM DRAINAGE PIPE SHALL BE RCP CLASS III UNLESS OTHERWISE NOTED ON THE DRAWINGS. ALL BENDS, TEES, AND WYES SHALL BE CONSIDERED SUBSIDIARY TO BID ITEMS FOR PIPE OR BOX.

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6. ALL JOINTS SEALS, CONNECTIONS, AND MODIFICATIONS NECESSARY FOR PROPER INSTALLATION OF STORM DRAINAGE SYSTEMS SHALL BE SUBSIDIARY TO RCP AND BOX CULVERT BID ITEMS.

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10. MANHOLE RISERS ARE SUBSIDIARY TO JUNCTION BOX MANHOLE AND INLET, BID ITEMS.

11. ALL OFFSET DISTANCES FOR EXISTING SANITARY SEWER ARE TO PROPOSED BASELINE.

12. BOX CULVERT SUBJECT TO DIRECT TRAFFIC LOADING DURING CONSTRUCTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH SCP-6 STANDARD FOR LESS THAN TWO FEET (<2) OF FILL.

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P.E. Serial No.: 86882
Date: 10/28/2011

BEXAR COUNTY
PUBLIC WORKS DEPARTMENT
FLOOD CONTROL DIVISION

NO	DATE	DESCRIPTION	DWG	CHK
		REVISIONS		

VFW BLVD SEGMENT 2

STORM DRAIN LINE "A"
PLAN AND PROFILE
VFW BLVD

0 10 20 40
SCALE: 1"=40' HORIZ
1"=10' VERT

POZNECKI INC
CAMARILLO

4 OF 4

DGN:				
CHK DGN:	FC			
DWG:		STATE	COUNTY	SHEET NO.
CHK DWG:	FC	TEXAS	BEXAR	33 OF 100

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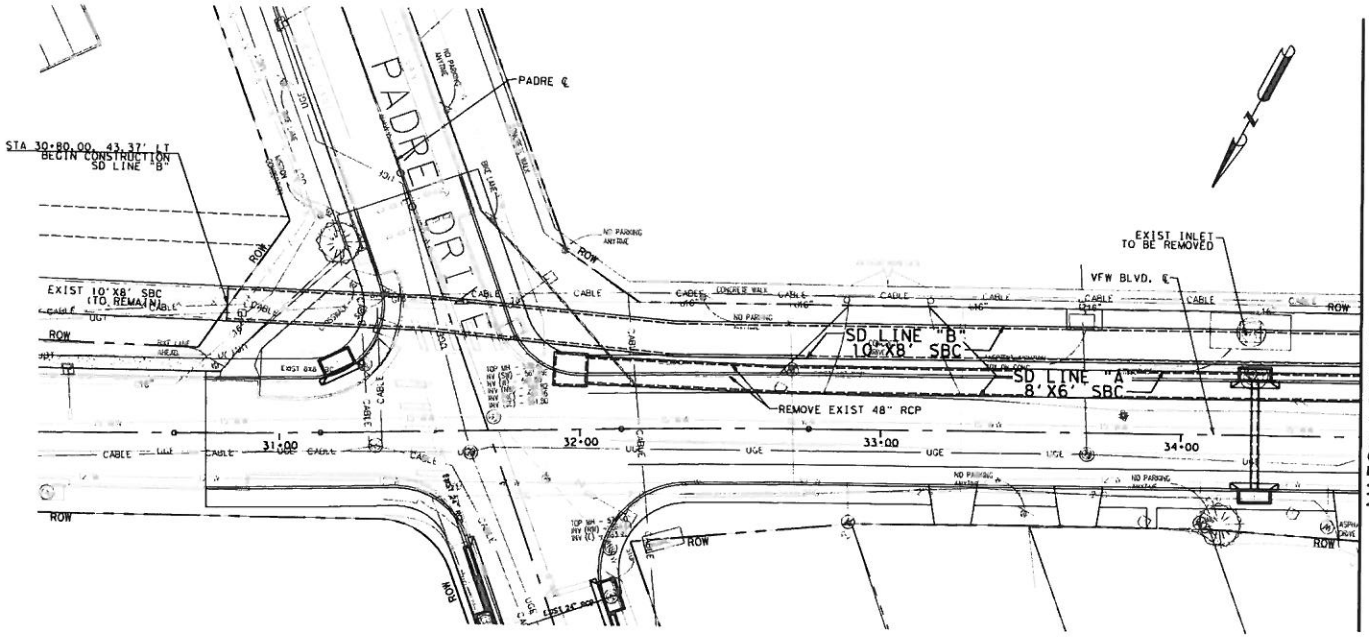
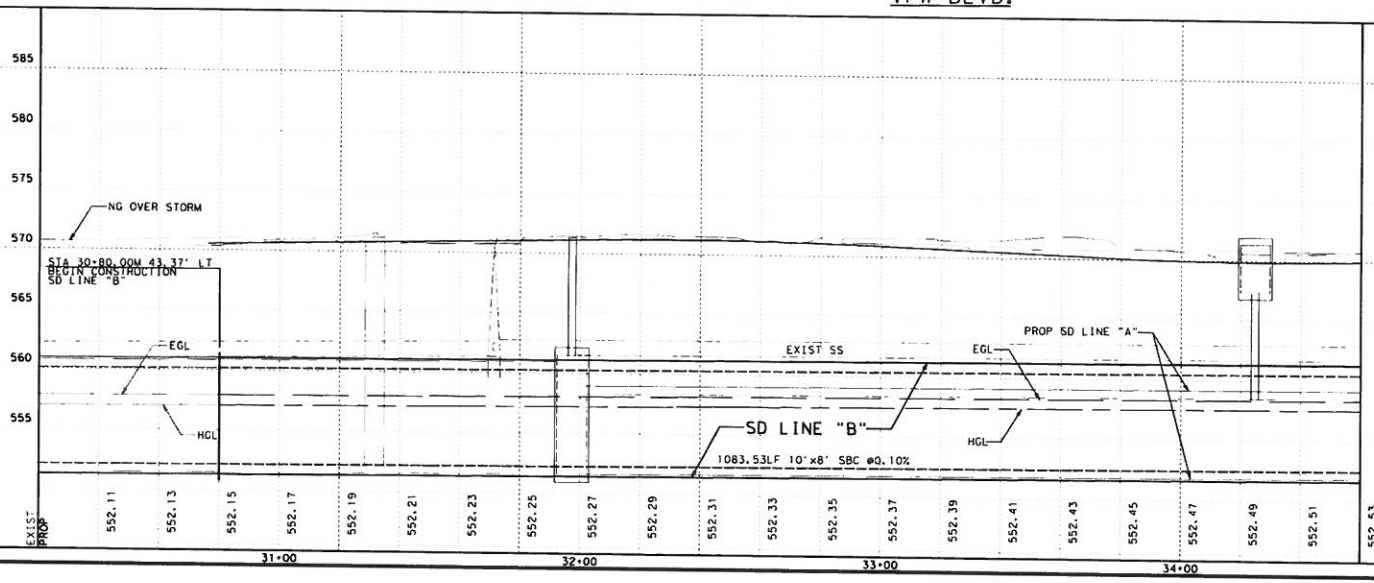


VFW BLVD.



NOTES:

1. ALL STORM DRAIN STATIONS ARE TO VFW BLVD BASELINE UNLESS OTHERWISE NOTED.
2. SEE STORM DRAIN LATERAL SHEETS FOR PROFILE INFORMATION OF PROPOSED LATERALS.
3. ALL STORM DRAINAGE PIPE SHALL BE RCP CLASS III UNLESS OTHERWISE NOTED ON THE DRAWINGS. ALL BENDS, TEES, AND WYES SHALL BE CONSIDERED SUBSIDIARY TO BID ITEMS FOR PIPE OR BOX.
4. ALL TRENCH EXCAVATION SHALL BE IN ACCORDANCE WITH THE U.S. DEPARTMENT OF OCCUPATIONAL HEALTH AND SAFETY ADMINISTRATION. THE CONTRACTOR IS REMINDED OF HIS RESPONSIBILITY TO PROVIDE A TRENCH SAFETY PLAN. THIS DOCUMENT SHALL BE SUBMITTED TO THE CITY AT THE PRE-CONSTRUCTION CONFERENCE.
5. LOCATIONS OF ALL UNDERGROUND UTILITIES IN THE VICINITY OF STORM DRAIN CONSTRUCTION SHALL BE UNCOVERED TO DETERMINE EXACT LOCATIONS PRIOR TO THE START OF CONSTRUCTION AT NO DIRECT PAYMENT.
6. ALL JOINTS SEALS, CONNECTIONS, AND MODIFICATIONS NECESSARY FOR PROPER INSTALLATION OF STORM DRAINAGE SYSTEMS SHALL BE SUBSIDIARY TO RCP AND BOX CULVERT BID ITEMS.
7. CONTROL POINTS FOR MANHOLES AND JUNCTION BOXES SHALL BE THE CENTER OF THE STRUCTURE BASE. CONTROL POINTS FOR CHANNEL HEADWALL INLETS SHALL BE AS SHOWN ON THE STANDARD DETAILS.
8. CONTROL POINTS FOR CURB INLETS SHALL BE THE MIDPOINT OF THE FACE OF CURB FOR CURB INLET ONLY (EXCLUDING INLET EXTENSIONS). TOP OF CURB INLET ELEVATIONS SHALL MATCH THE PROPOSED TOP OF CURB ELEVATIONS.
9. ALL RCP STORM DRAINAGE PIPE SHALL BE INSTALLED WITH A CLASS 'C' EMBEDMENT UNLESS OTHERWISE SHOWN ON THE DRAWINGS. ALL BACKFILL AND EMBEDMENT SHALL BE SUBSIDIARY TO BID ITEM 401.
10. MANHOLE RISERS ARE SUBSIDIARY TO JUNCTION BOX MANHOLE AND INLET, BID ITEMS.
11. ALL OFFSET DISTANCES FOR EXISTING SANITARY SEWER ARE TO PROPOSED BASELINE.
12. BOX CULVERT SUBJECT TO DIRECT TRAFFIC LOADING DURING CONSTRUCTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH SCP-6 STANDARD FOR LESS THAN TWO FEET (2') OF FILL.

40% SUBMITTAL

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Engineer: FERNANDO CAMARILLO
P.E. Serial No.: 86882
Date: 10/28/2011

BEXAR COUNTY
PUBLIC WORKS DEPARTMENT
FLOOD CONTROL DIVISION

NO	DATE	DESCRIPTION REVISIONS	DWG	CHK

VFW BLVD SEGMENT 2

STORM DRAIN LINE "B"
PLAN AND PROFILE
VFW BLVD

0 10 20 40
SCALE: 1"=40' HORIZ
1"=10' VERT

POZNECKI CAMARILLO ING

DGN:				
CHK DGN:	FC			
DRN:		STATE	COUNTY	SHEET NO.
CHK DRN:	FC	TEXAS	BEXAR	34 OF 100

1 OF 4

Plotted on: 10/28/2011 3:41:10 PM
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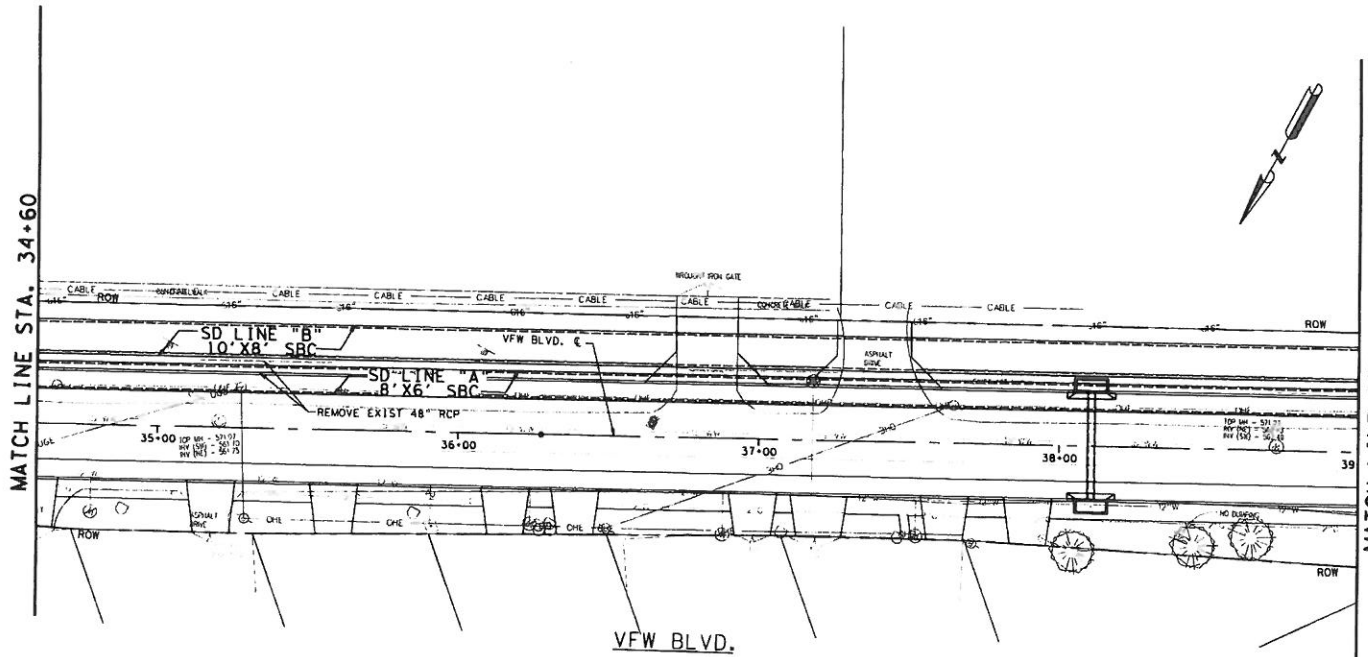

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5. LOCATIONS OF ALL UNDERGROUND UTILITIES IN THE VICINITY OF STORM DRAIN CONSTRUCTION SHALL BE UNCOVERED TO DETERMINE EXACT LOCATIONS PRIOR TO THE START OF CONSTRUCTION AT NO DIRECT PAYMENT.

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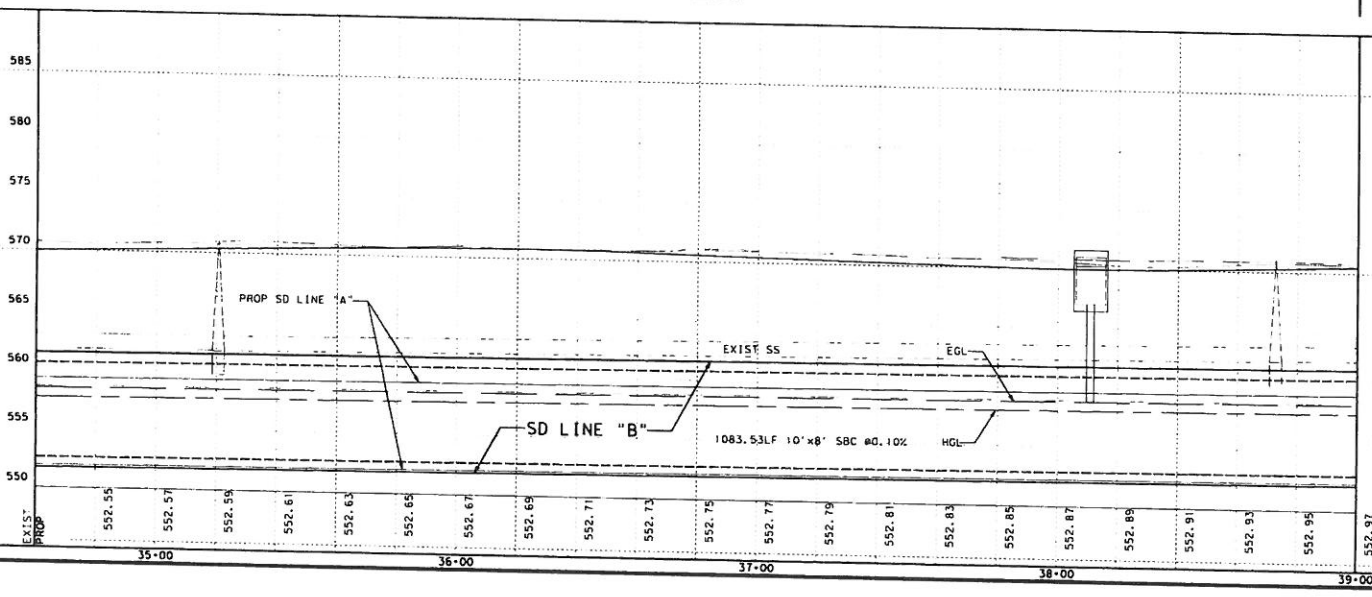
40% SUBMITTAL



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Engineer: FERNANDO CAMARILLO
P.E. Serial No.: 86882
Date: 10/28/2011

BEXAR COUNTY
PUBLIC WORKS DEPARTMENT
FLOOD CONTROL DIVISION

NO	DATE	DESCRIPTION	DWG	CHK
		REVISIONS		

VFW BLVD SEGMENT 2

STORM DRAIN LINE "B"
PLAN AND PROFILE
VFW BLVD

0 10 20 40
SCALE: 1"=40' HORIZ
1"=10' VERT

POZNECKI INC
CAMARILLO

2 OF 4

DGN:				
CHK DGN:	FC			
DWG:		STATE	COUNTY	SHEET NO.
CHK DWG:	FC	TEXAS	BEXAR	35 OF 100

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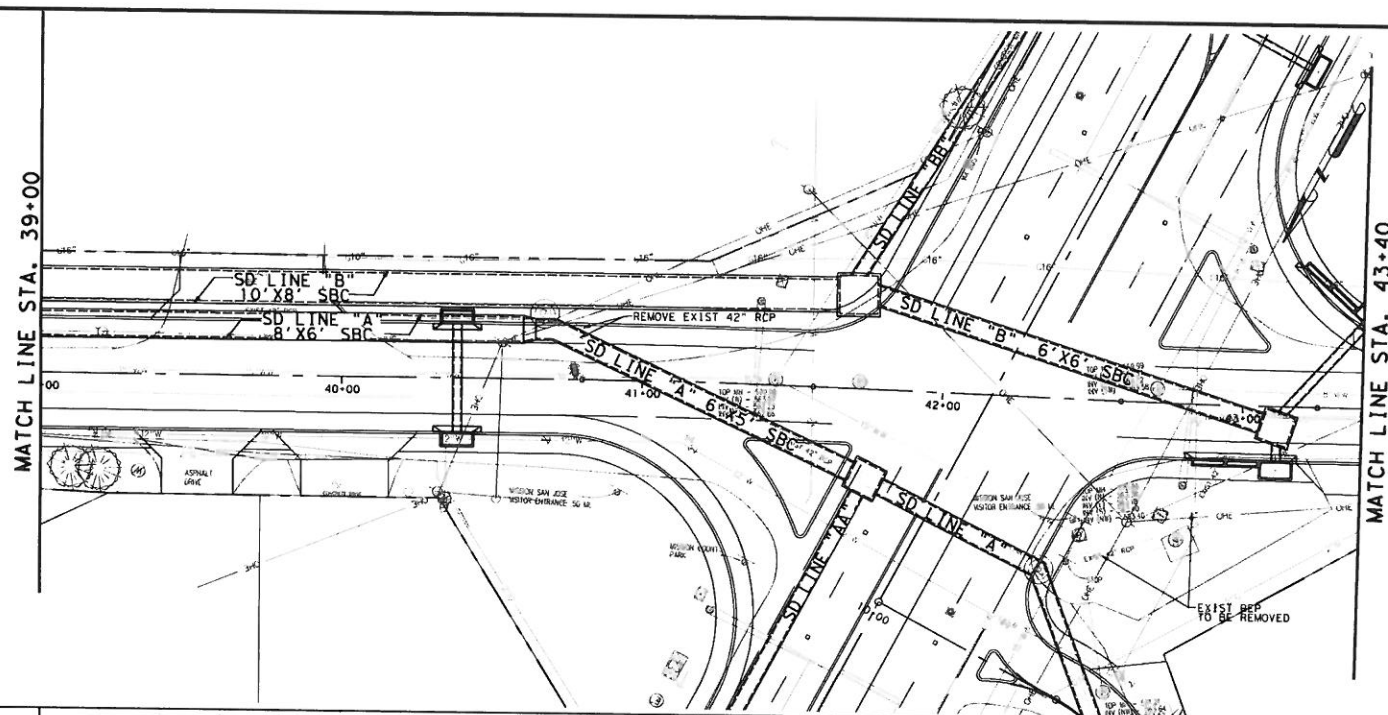

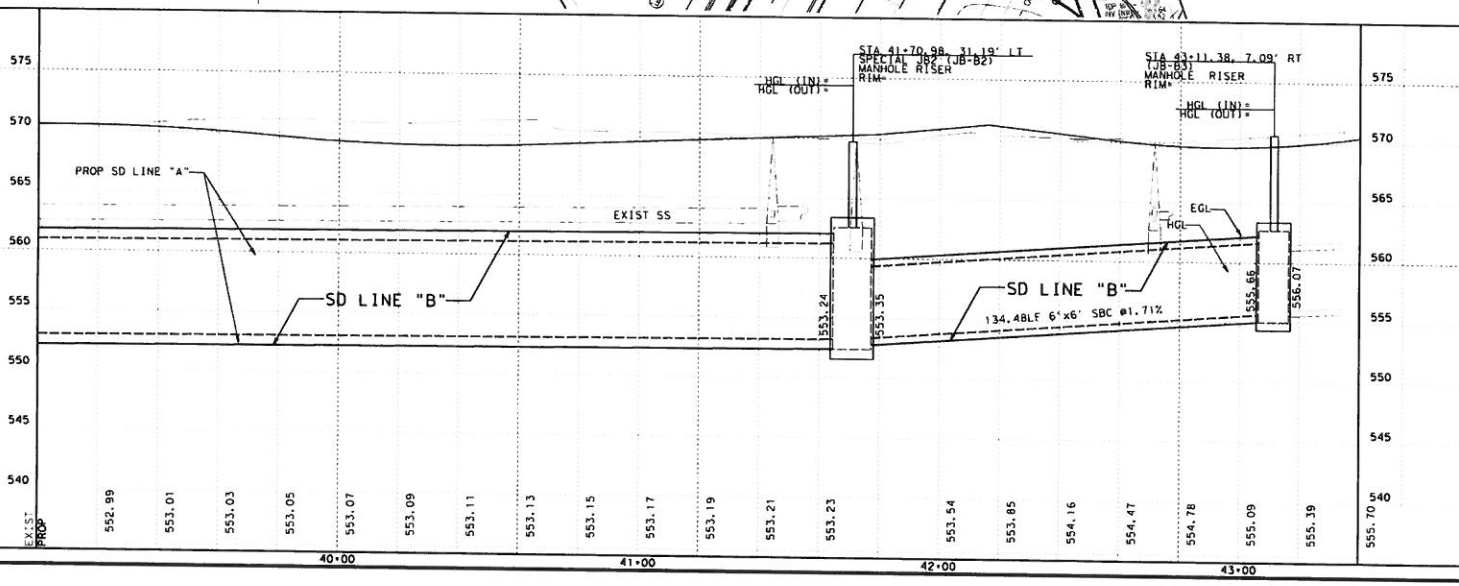

40% SUBMITTAL

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Engineer: FERNANDO CAMARILLO
P.E. Serial No.: 86882
Date: 10/28/2011

BEXAR COUNTY
PUBLIC WORKS DEPARTMENT
FLOOD CONTROL DIVISION

NO	DATE	DESCRIPTION	DWG	CHK
		REVISIONS		

VFW BLVD SEGMENT 2

STORM DRAIN LINE "B"
PLAN AND PROFILE
VFW BLVD

0 10 20 40
SCALE: 1"=40' HORIZ
1"=10' VERT

POZNECKI INC
CAMARILLO

3 OF 4

DGN:				
CHK DGN:	FC			
DWG:		STATE	COUNTY	SHEET NO.
CHK DWG:	FC	TEXAS	BEXAR	36 OF 100

Plotted on: 10/28/2011 3:41:15 PM

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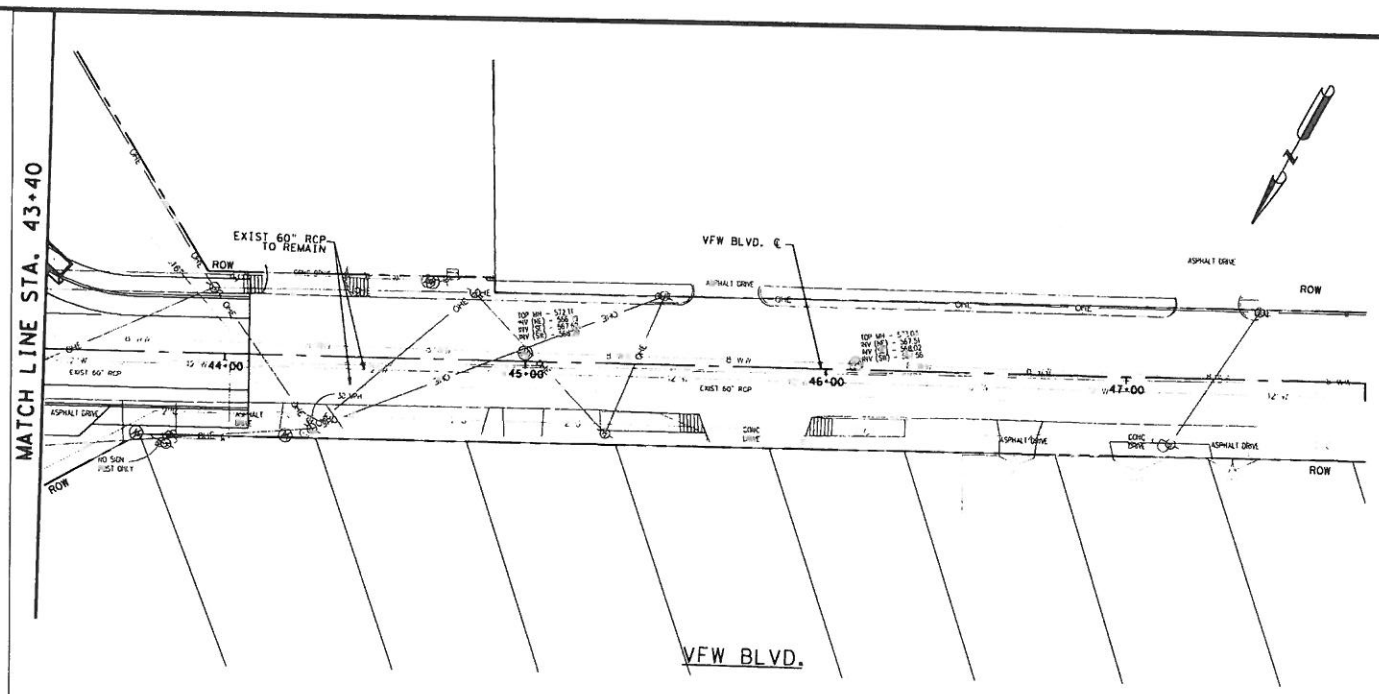

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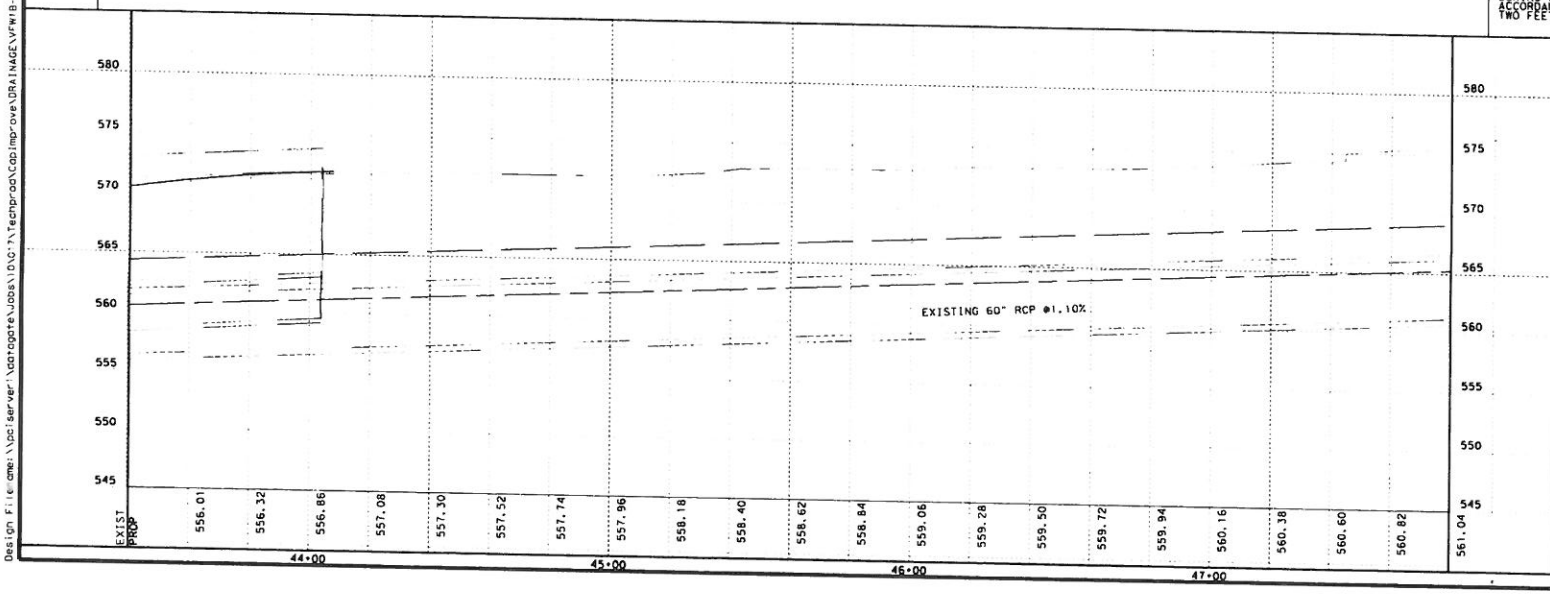
40% SUBMITTAL



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Engineer: FERNANDO CAMARILLO
P.E. Serial No.: 86882
Date: 10/28/2011

BEXAR COUNTY
PUBLIC WORKS DEPARTMENT
FLOOD CONTROL DIVISION

NO	DATE	DESCRIPTION	DWG	CHK
		REVISIONS		

VFW BLVD SEGMENT 2

STORM DRAIN LINE "B"
PLAN AND PROFILE
VFW BLVD

0 10 20 40
SCALE: 1"=40' HORIZ
1"=10' VERT

POZNECKI INC
CAMARILLO

4 OF 4

DGN:				
CHK DGN:	FC			
DWG:		STATE	COUNTY	SHEET NO.
CHK DWG:	FC	TEXAS	BEXAR	37 OF 100

Plotted on: 10/28/2011 3:41:17 PM

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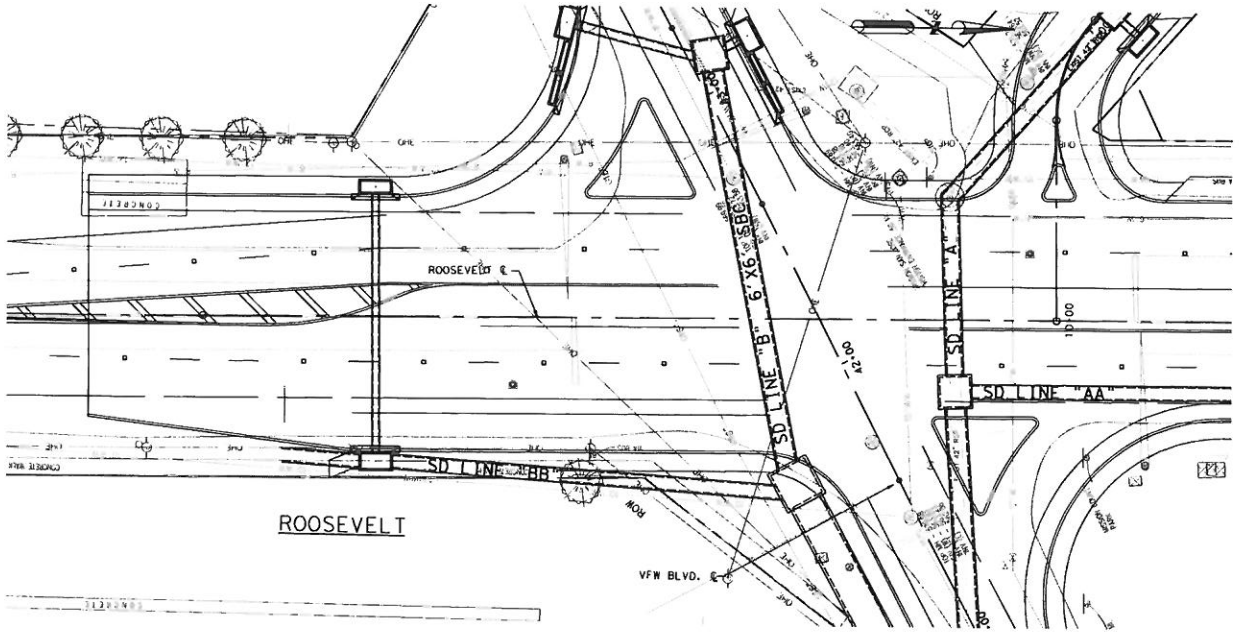

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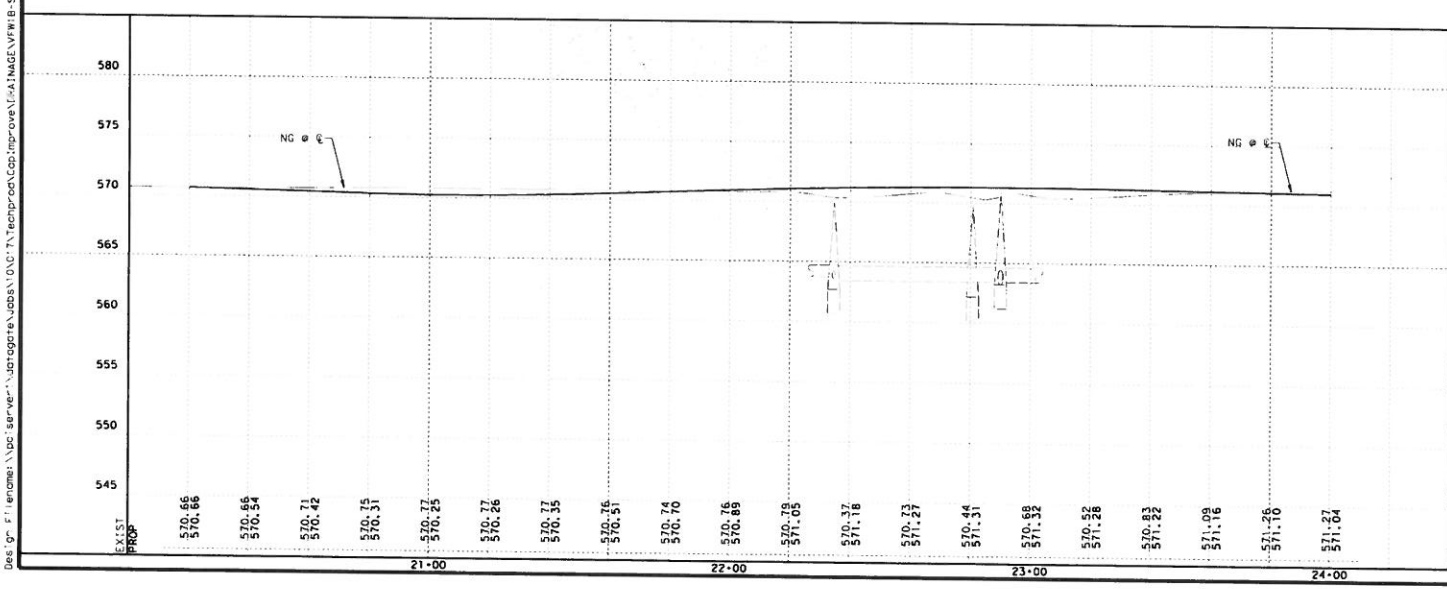

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Engineer: FERNANDO CAMARILLO
P.E. Serial No.: 86882
Date: 10/28/2011

BEXAR COUNTY
PUBLIC WORKS DEPARTMENT
FLOOD CONTROL DIVISION

NO	DATE	DESCRIPTION	DWG	CHK
		REVISIONS		

VFW BLVD SEGMENT 2

STORM DRAIN LINE "BB"
PLAN AND PROFILE
ROOSEVELT AVE.

0 10 20 40
SCALE: 1"=40' HORIZ
1"=10' VERT

ROZNECKI INC
CAMARILLO

1 OF 1

DGN:				
CHK DGN:	FC			
DBG:		STATE	COUNTY	SHEET NO.
CHK DBG:	FC	TEXAS	BEXAR	38 OF 100

Design Filename: \\pcserver\datagate\Jobs\10\017\Techprod\Capimprove\DRAINAGE\VFW1B-SD01.dgn
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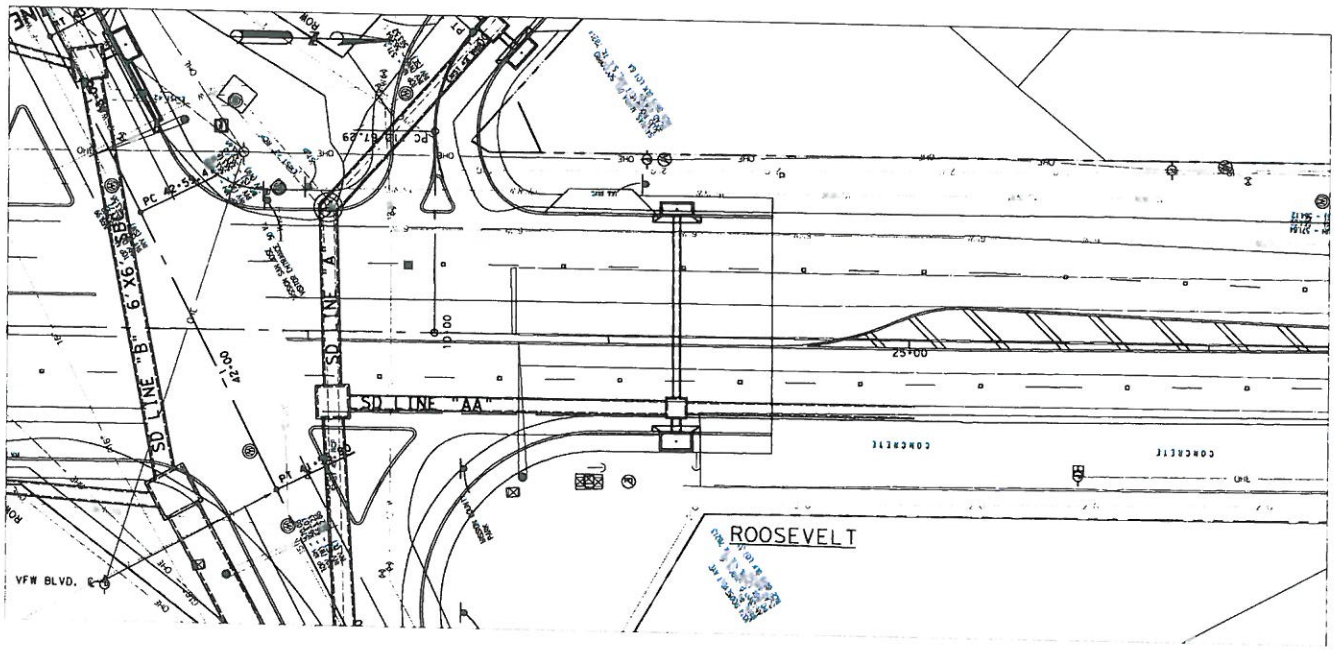

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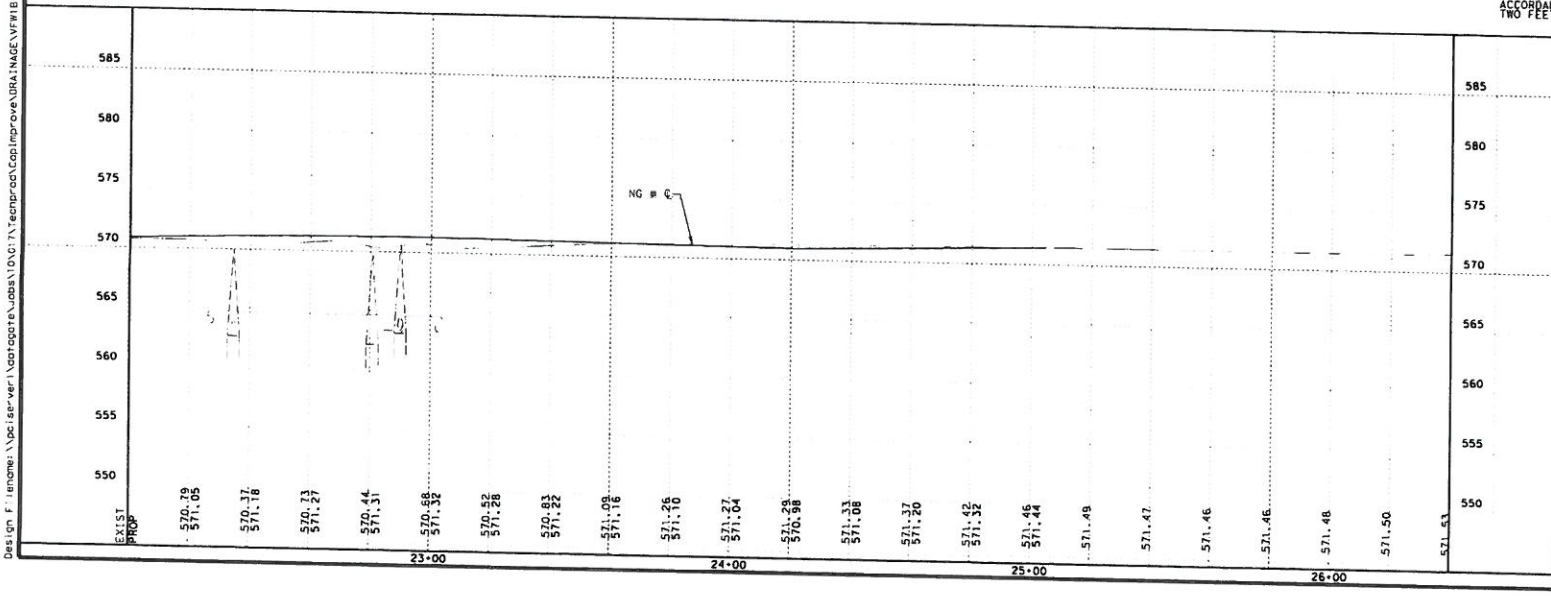

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Engineer: FERNANDO CAMARILLO
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BEXAR COUNTY
PUBLIC WORKS DEPARTMENT
FLOOD CONTROL DIVISION

NO	DATE	DESCRIPTION	DWG	CHK
		REVISIONS		

VFW BLVD SEGMENT 2

STORM DRAIN LINE "AA
PLAN AND PROFILE
ROOSEVELT AVE.

0 10 20 40
SCALE: 1"=40' HORIZ
1"=10' VERT

POZNECKI INC
CAMARILLO

1 OF 1

DGN:				
CHK DGN:	FC			
DWG:		STATE	COUNTY	SHEET NO.
CHK DWG:	FC	TEXAS	BEXAR	39 OF 100

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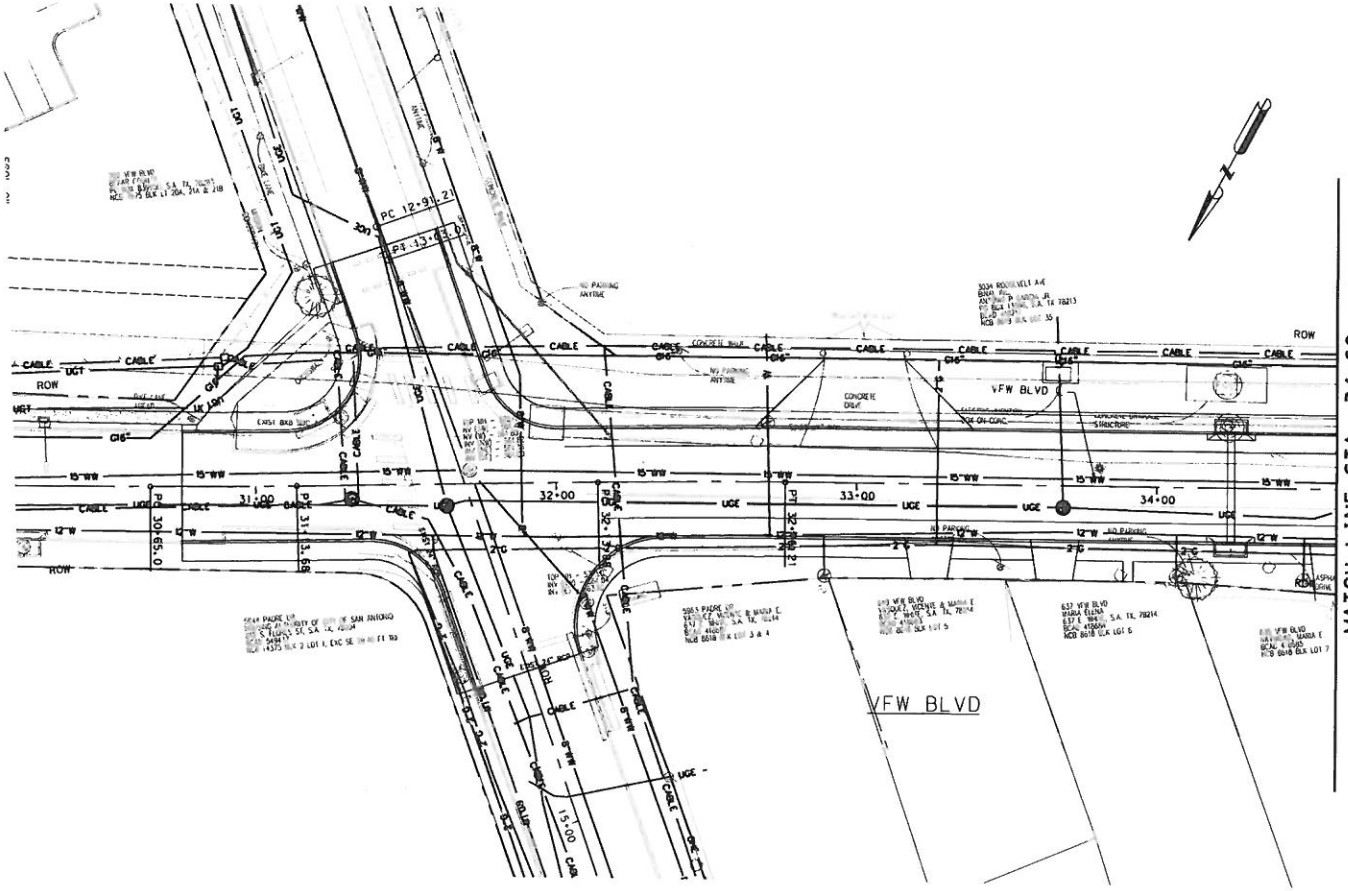

LEGEND

12"W AC	12" ASBESTOS CONCRETE WATER MAIN
8"G	8" GAS MAIN
OHE	OVERHEAD ELECTRICAL
UGE	UNDERGROUND ELECTRICAL
UGT	UNDERGROUND TELEPHONE
8" WW	8" SANITARY SEWER MAIN
	VALVE BOX
PP	POWER POLE
PP	POWER POLE WITH LIGHT
	GUY

NOTES:
1. THE INFORMATION SHOWN ON THIS DRAWING CONCERNING THE EXISTING OR PROPOSED LOCATION AND TYPE OF UNDERGROUND AND OVERHEAD UTILITIES IS FOR CONTRACTOR INFORMATION ONLY. FOR THE PURPOSE OF COORDINATION WITH UTILITY COMPANIES, AND IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OR HER OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND AND OVERHEAD UTILITIES PRESENT AND MAKE NECESSARY MEASURES TO AVOID DAMAGE THERETO.
2. CALL THE TEXAS ONE CALL LOCATOR AT 1-800-344-8377, 48 HOURS BEFORE BEGINNING ANY EXCAVATION.
3. DUE TO FEDERAL REGULATION TITLE 49, PART 192.181, CPS 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.
4. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING CPS OVERHEAD AND UNDERGROUND ELECTRICAL FACILITIES IF ADJACENT TO WORK AREA. PART 192.181.
5. ALL EXISTING UTILITIES SHOWN ON THIS SHEET ARE POSITIONED WITH A CONFIDENCE OF QUALITY LEVEL "B" UNLES OTHERWISE NOTED. SERVICE LINES FOR GAS, WATER AND SANITARY SEWER ARE SHOWN TO QUALITY LEVEL "C". POTHOLE INFORMATION IS SHOWN TO QUALITY LEVEL "A"
6. LOCATION OF PROPOSED WASTER LINE AND SANITARY SEWER LINE IS APPROXIMATE. REFER TO SAWS JOINT BID PLANS FOR INFORMATION ON PROPOSED FACILITIES.
7. THE CONTRACTOR'S RESPONSIBILITES REGARDING UTILITY RELOCATION OR ADJUSTMENT IS SHOWN IN THE JOINT BID UTILITY PLANS

40% SUBMITTAL

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Engineer: FERNANDO CAMARILLO
P.E. Serial No.: 86882
Date: 10/28/2011

BEXAR COUNTY
PUBLIC WORKS DEPARTMENT
FLOOD CONTROL DIVISION

NO	DATE	DESCRIPTION REVISIONS	DWG	CHK

VFW BLVD SEGMENT 2

UTILITY LAYOUT VFW BLVD.

0 10 20 40

BOZNECKI INC CAMARILLO

DSGN				
CHK DSGN	FC			
DWG		STATE	COUNTY	SHEET NO.
CHK DWG	FC	TEXAS	BEXAR	40 OF 100

Design Filename: \\dcserver\dastgate\Jobs\CVC\7\Tempprod\Cad\Impreve\Utilities\FWB-U710.dgn
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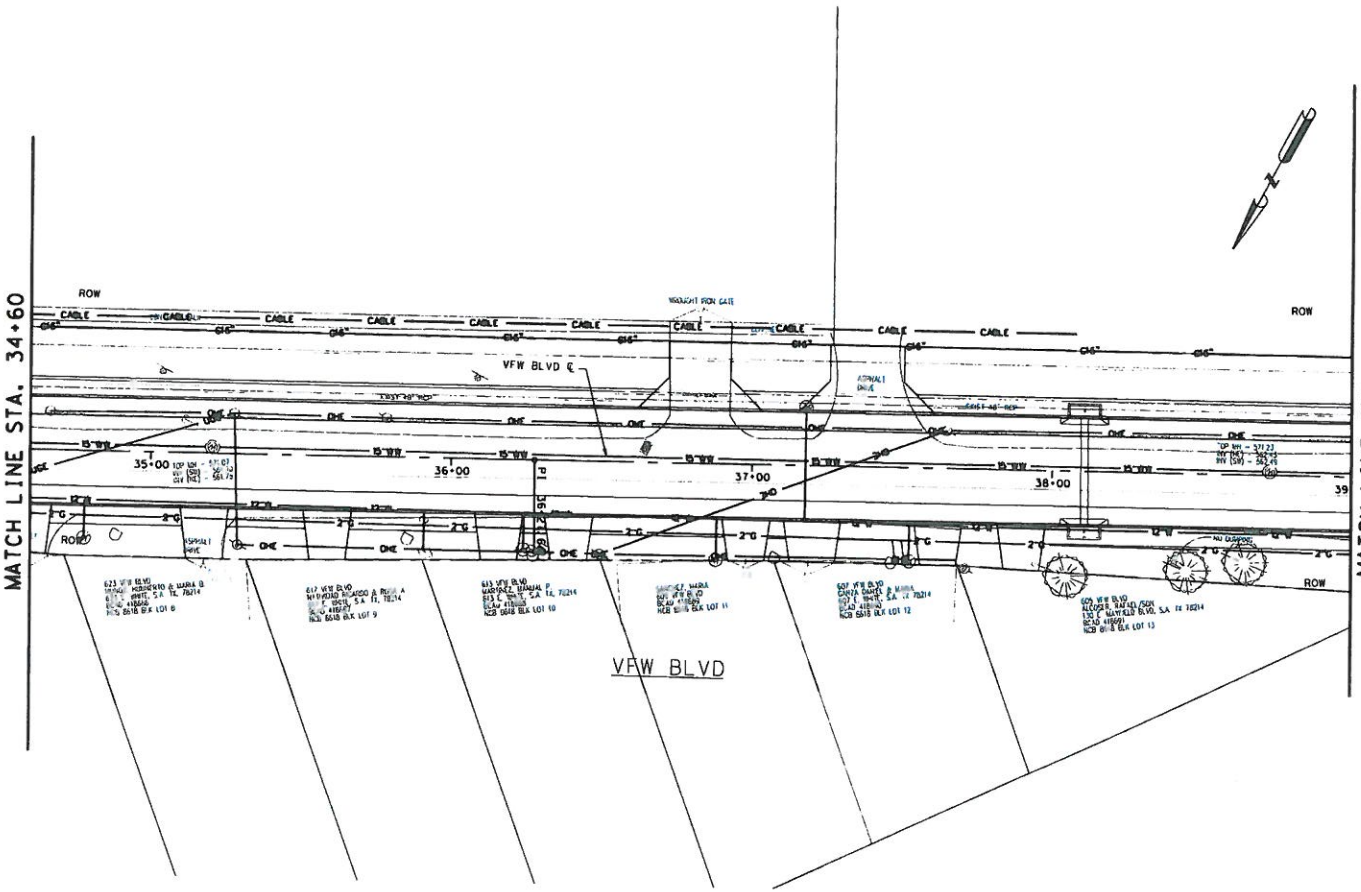

LEGEND

12"W AC	12" ASBESTOS CONCRETE WATER MAIN
8"G	8" GAS MAIN
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UGE	UNDERGROUND ELECTRICAL
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Engineer: FERNANDO CAMARILLO
P.E. Serial No.: 86882
Date: 10/28/2011

BEXAR COUNTY
PUBLIC WORKS DEPARTMENT
FLOOD CONTROL DIVISION

NO	DATE	DESCRIPTION	DWG	CHK
		REVISIONS		

VFW BLVD SEGMENT 2

UTILITY LAYOUT
VFW BLVD.

0 10 20 40

POZNECKI INC
CAMARILLO

DGN:				
CHK DGN:	FC			
DWG:		STATE	COUNTY	SHEET NO.
CHK DWG:	FC	TEXAS	BEXAR	41 OF 100

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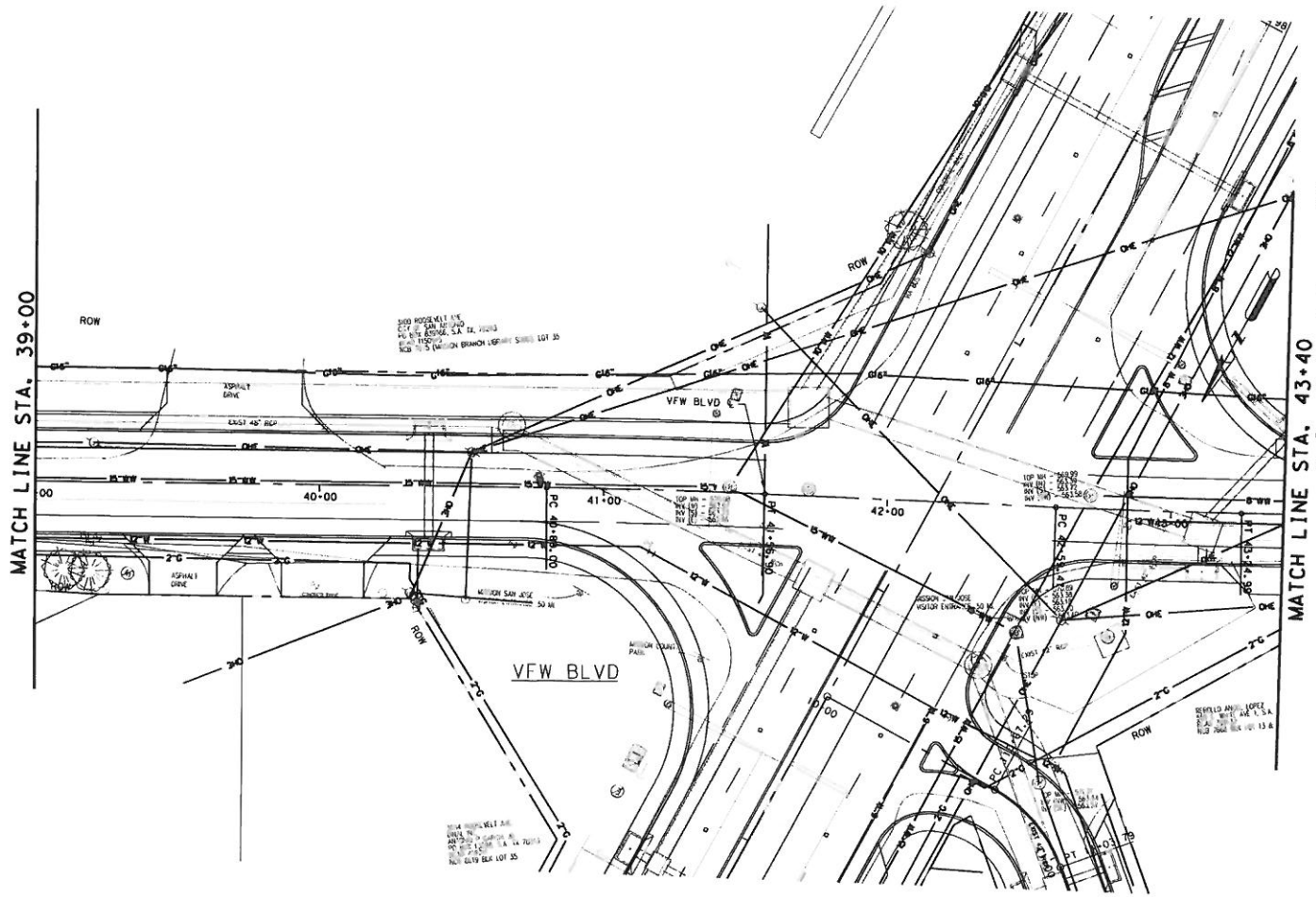

LEGEND

12"W AC	12" ASBESTOS CONCRETE WATER MAIN
8"G	8" GAS MAIN
OHE	OVERHEAD ELECTRICAL
UGE	UNDERGROUND ELECTRICAL
UGT	UNDERGROUND TELEPHONE
8" WW	8" SANITARY SEWER MAIN
	VALVE BOX
PP	POWER POLE
PP	POWER POLE WITH LIGHT
	GUY

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BEXAR COUNTY
PUBLIC WORKS DEPARTMENT
FLOOD CONTROL DIVISION

NO	DATE	DESCRIPTION REVISIONS	DWG	CHK

VFW BLVD SEGMENT 2

UTILITY LAYOUT
VFW BLVD.
0 10 20 40

POZNECKI CAMARILLO INC

DSGN				
CHK DSGN	FC			
DRGN		STATE	COUNTY	SHEET NO.
CHK DRGN	FC	TEXAS	BEXAR	42 OF 100

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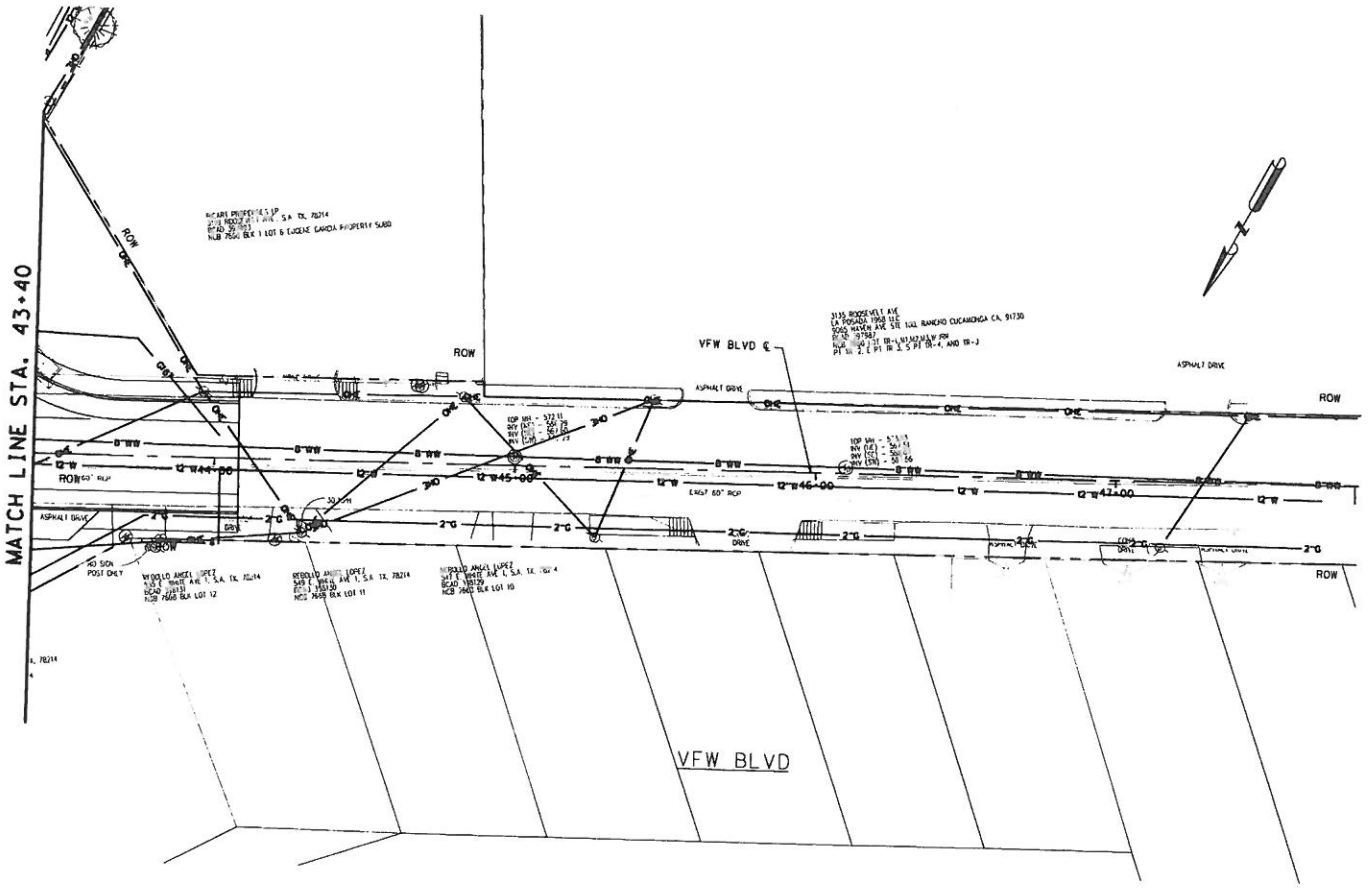

LEGEND

—12"W AC—	12" ASBESTOS CONCRETE WATER MAIN
—8"G—	8" GAS MAIN
—OHE—	OVERHEAD ELECTRICAL
—UGE—	UNDERGROUND ELECTRICAL
—UGT—	UNDERGROUND TELEPHONE
—8" WW—	8" SANITARY SEWER MAIN
⋈	VALVE BOX
● PP	POWER POLE
—● PP	POWER POLE WITH LIGHT
—)	GUY

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Engineer: FERNANDO CAMARILLO
P.E. Serial No.: 86882
Date: 10/28/2011

BEXAR COUNTY
PUBLIC WORKS DEPARTMENT
FLOOD CONTROL DIVISION

NO	DATE	DESCRIPTION	DWG	CHK
		REVISIONS		

VFW BLVD SEGMENT 2

UTILITY LAYOUT VFW BLVD.

0 10 20 40

POZNECKI INC CAMARILLO

DGN:				
CHK DGN:	FC			
DWG:		STATE	COUNTY	SHEET NO.
CHK DWG:	FC	TEXAS	BEXAR	43 OF 100

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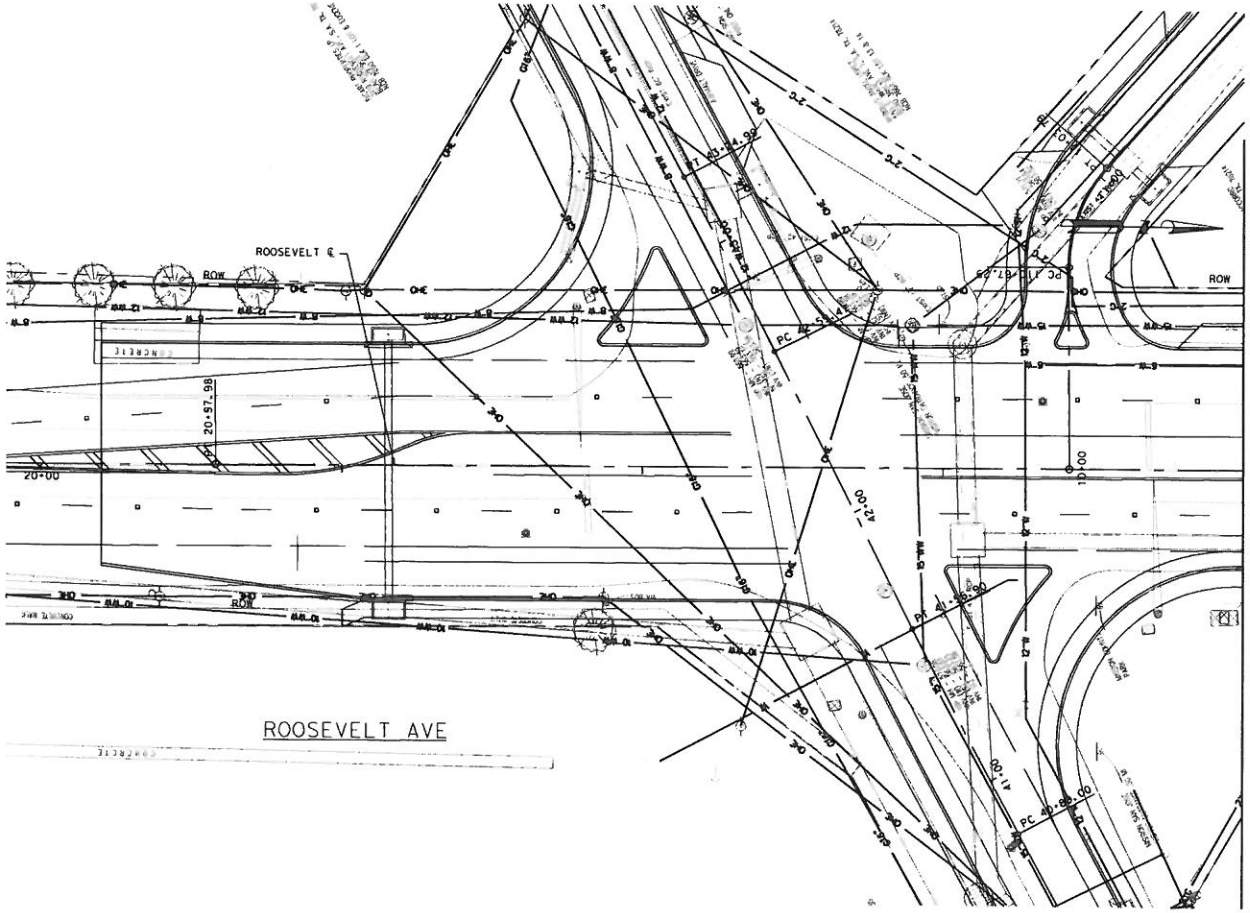

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Date: 10/28/2011

BEXAR COUNTY
PUBLIC WORKS DEPARTMENT
FLOOD CONTROL DIVISION

NO	DATE	DESCRIPTION	DWG	CHK
		REVISIONS		

VFW BLVD SEGMENT 2

UTILITY LAYOUT ROOSEVELT AVE.

0 10 20 40

POZNECKI CAMARILLO INC

DGN:				
CHK DGN:	FC			
DWG:		STATE	COUNTY	SHEET NO.
CHK DWG:	FC	TEXAS	BEXAR	44 OF 100

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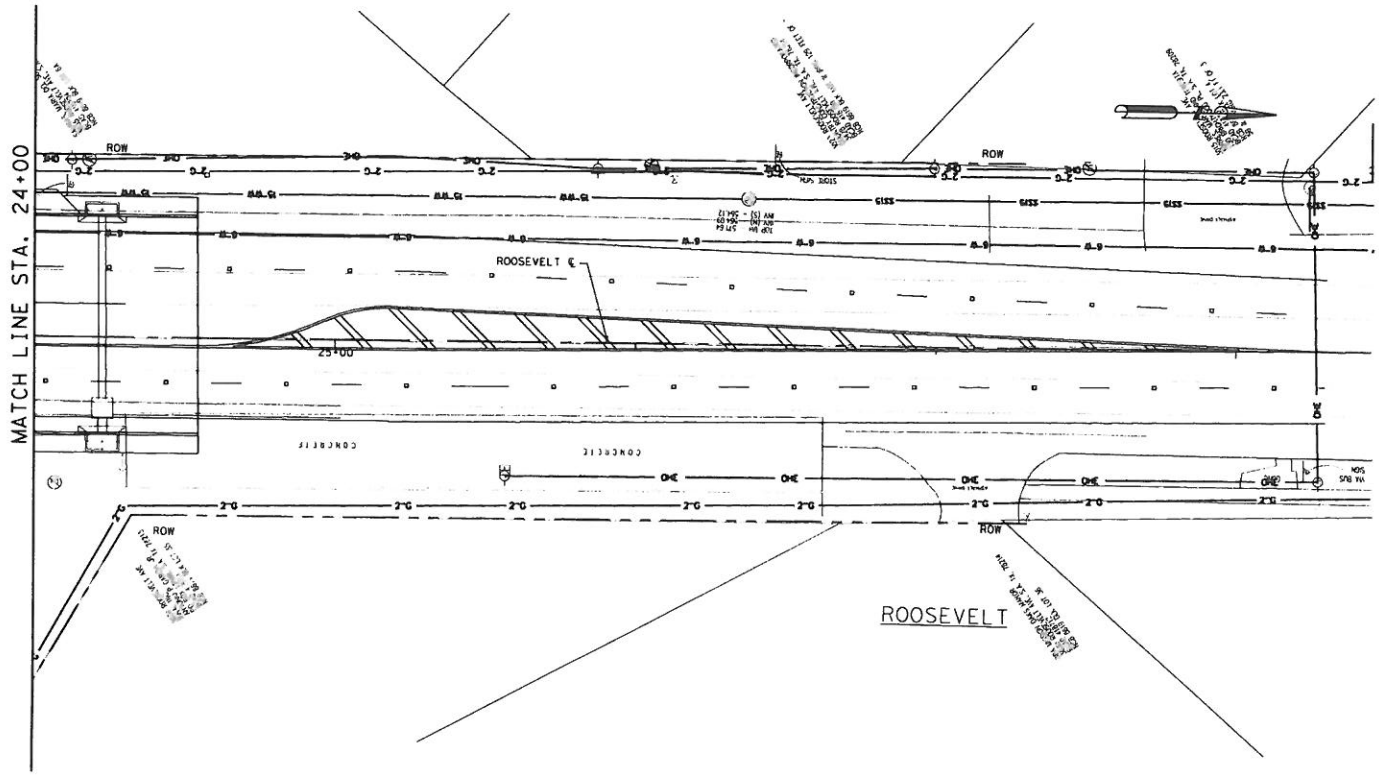

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BEXAR COUNTY
PUBLIC WORKS DEPARTMENT
FLOOD CONTROL DIVISION

NO	DATE	DESCRIPTION REVISIONS	DWG	CHK

VFW BLVD SEGMENT 2

UTILITY LAYOUT
ROOSEVELT AVE.

0 10 20 40

BOZNECKI ING CAMARILLO

DSN				
DR. DSN	FC			
DWG		STATE	COUNTY	SHEET NO.
CHK. DWG	FC	TEXAS	BEXAR	45 OF 100

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Appendix B – Survey Information For Proposed ROW

Metes and Bounds Description for a 0.005 Ac. Tract

Being 0.005 acre of land out of a 0.63 acre tract recorded in Volume 4401, Page 315 of the Official Public Records of Real Property of Bexar County, Texas; said 0.63 acre tract being described as the Southeast irregular part of Lot 2, New City Block 8619, Pecan Grove Addition Subdivision recorded in Volume 642, Page 306 of the Deed and Plat Records of Bexar County, Texas, and a triangular part of old Tract 6, New City Block 8619, being a tract out of San Jose Mission Lands, San Antonio, Bexar County, Texas; said 0.005 acre tract being more particularly described as follows:

Beginning at a set ½" iron pin with yellow cap labeled "PCI" (hereinafter referred to as "IP W/YC") located at the northeasterly end of a right-of-way cut-back line from the west right-of-way line of Roosevelt Avenue (U.S. Highway 281 South) to the northeast right-of-way line of Dagley Avenue;

1. Thence S 31°25'44" W, 10.69 feet departing the west right-of-way line of Roosevelt Avenue (U.S. Highway 281 South) and continuing along the said right-of-way cut-back line to a set IP W/YC located at the southwesterly end of the said right-of-way cut-back line; said IP W/YC being the most southerly corner of the said 0.63 acre tract and of the tract herein described;

2. Thence N 48°27'17" W, 18.86 feet departing the said right-of-way cut-back line and continuing along the northeast right-of-way line of Dagley Avenue to a set IP W/YC being the most westerly corner of the tract herein described;

3. Thence N 65°12'46" E, 21.58 feet departing the said northeast right-of-way line to a set IP W/YC located on the west right-of-way line of Roosevelt Avenue (U.S. Highway 281 South); said IP W/YC being the most northerly corner of the tract herein described;

4. Thence S 00°25'16" E, 12.43 feet along the said west right-of-way line to the **Point of Beginning** and containing 0.005 acre of land (221 sq. ft.).

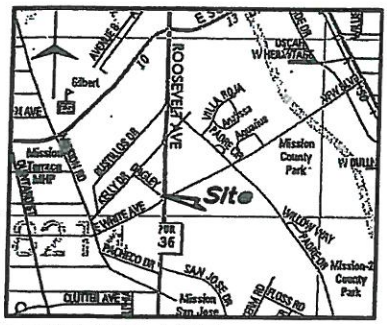
A plat of even date accompanies this metes and bounds description.

Richard J. Solis
Registered Professional Land Surveyor
No. 4602
November 18, 2011

POZNECKI — CAMARILLO, INC.

5835 CALLAGHAN RD. / SUITE 200 SAN ANTONIO, TEXAS 78228 (210) 349-3273

ENGINEERING SURVEYING ENVIRONMENTAL



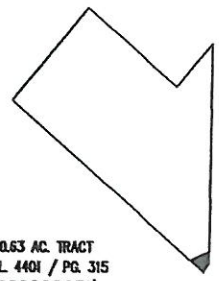
LOCATION MAP NOT DRAWN TO SCALE

LINE DATA TABLE		
NO.	BEARING	LENGTH
L1	S31°25'44"W	10.69'
L2	N48°27'17"W	18.86'
L3	N65°12'46"E	21.58'
L4	S00°25'16"E	12.43'

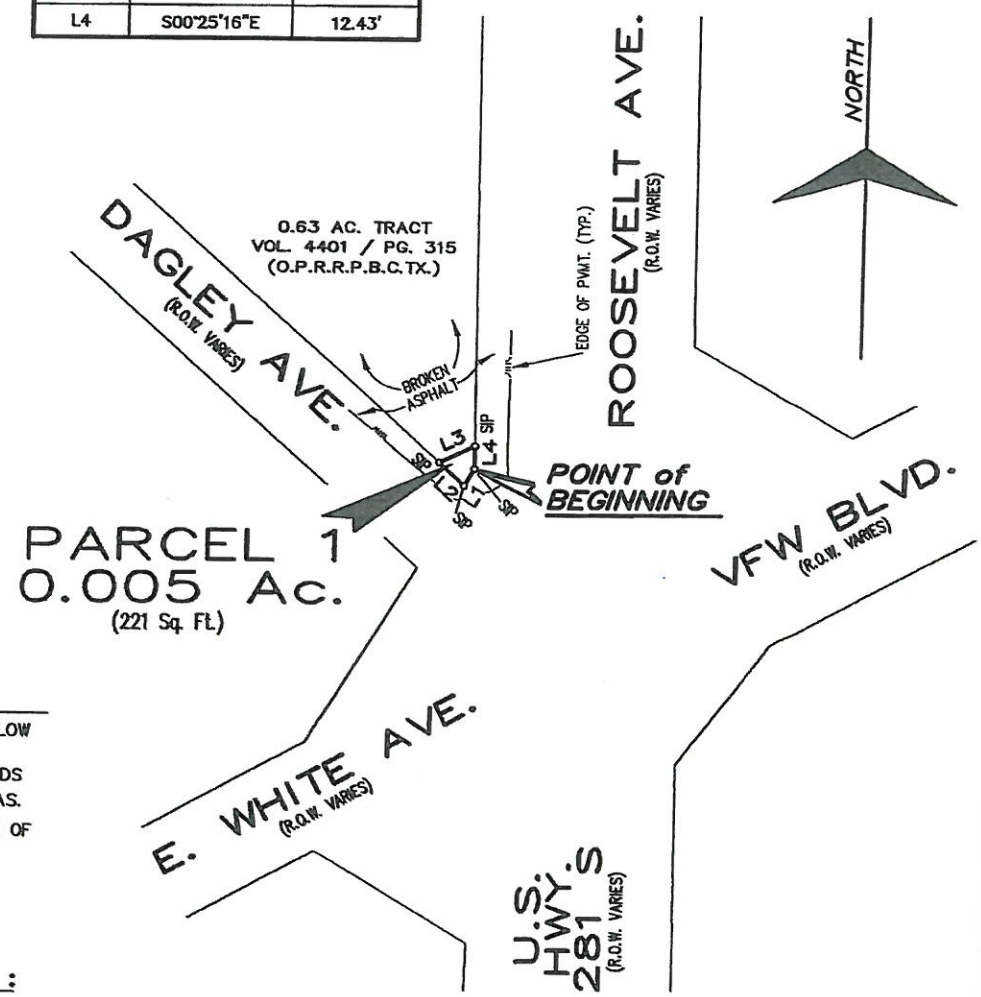
100 0 50 100

(IN FEET)

1 INCH = 100 FEET



0.63 AC. TRACT
VOL. 4401 / PG. 315
(O.P.R.R.P.B.C.TX.)
(N.T.S.)



NOTES :

1. "SIP" DENOTES SET 1/2" IRON PIN WITH YELLOW CAP LABELED "PCI".
2. "O.P.R.R.P.B.C.TX." — OFFICIAL PUBLIC RECORDS OF REAL PROPERTY OF BEXAR COUNTY, TEXAS.
3. "D.&P.R.B.C.TX." — DEED AND PLAT RECORDS OF BEXAR COUNTY, TEXAS.

DIRECTIONAL CONTROL BASIS :

ALL BEARINGS SHOWN ARE BASED UPON THE TEXAS STATE PLANE SYSTEM (SOUTH CENTRAL ZONE NAD 83) AS DETERMINED BY GLOBAL POSITIONING SYSTEM (GPS).

THIS SURVEY WAS PREPARED WITH THE BENEFIT OF A TITLE COMMITMENT. ALAMO TITLE INSURANCE G.F. NO. 4006000782. EFFECTIVE DATE: OCTOBER 19, 2011.

PLAT SHOWING :

Being 0.005 acre of land out of a 0.63 acre tract recorded in Volume 4401, Page 315 of the Official Public Records of Real Property of Bexar County, Texas; said 0.63 acre tract being described as the Southeast irregular part of Lot 2, New City Block 8619, Pecan Grove Addition Subdivision recorded in Volume 642, Page 306 of the Deed and Plat Records of Bexar County, Texas, and a triangular part of old Tract 6, New City Block 8619, being a tract out of San Jose Mission Lands, San Antonio, Bexar County, Texas.

STATE OF TEXAS
COUNTY OF BEXAR

I HEREBY CERTIFY THAT THE ABOVE PLAT IS TRUE AND CORRECT ACCORDING TO AN ACTUAL SURVEY MADE ON THE GROUND BY PERSONNEL WORKING UNDER MY SUPERVISION.

REFERENCES :

VOL. 10942, PG. 362 (O.P.R.R.P.B.C.TX.)
VOL. 4401, PG. 315 (O.P.R.R.P.B.C.TX.)
VOL. 642, PG. 306 (D.&P.R.B.C.TX.)

STATE OF TEXAS REGISTERED RICHARD J. SOLIS 4602 PROFESSIONAL LAND SURVEYOR

JOB NO. : 10017
DWN BY : TALAMANTEZ
DWG FILE : (REF. DATESTAMP)

THIS 18th DAY OF November 2011 , A.D.

RICHARD J. SOLIS
R.P.L.S. NO. 4602

SHEET 3 OF 3

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