DEPARTMENT OF VETERANS AFFAIRS
FORT SAM HOUSTON NATIONAL CEMETERY

PHASE 3 EXPANSION & IMPROVEMENTS: VA PROJECT NO. 846CM2045
PROJECT: ADDITIONAL ROAD REPAIRS

CONSULTANTS

ANDERSON ENGINEERING OF MN, LLC
CIVIL ENGINEERING, LAND SURVEY

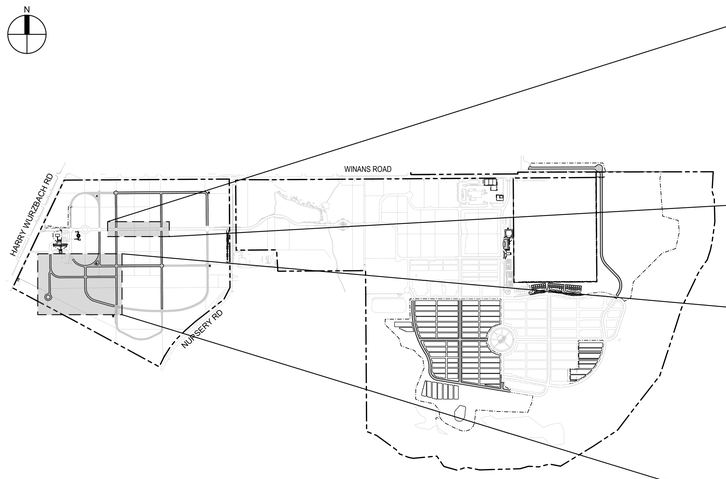
13605 1ST AVENUE NORTH, SUITE 100
PLYMOUTH, MN 55441
CONTACT: ERIC SAUTBINE, PROJECT MANAGER
PHONE: (763) 412-4000

SITE DATA

FORT SAM HOUSTON NATIONAL CEMETERY
STREET ADDRESS: 1520 HARRY WURZBACH RD,
SAN ANTONIO, TX 78209
COUNTY: BEXAR

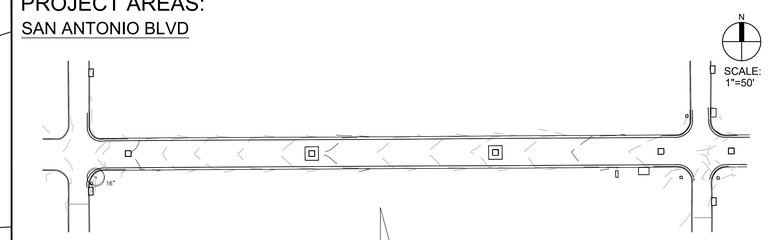
PHASE 3

LOCATION MAP: N.T.S.



PROJECT AREAS:

SAN ANTONIO BLVD



AUSTIN CIRCLE
& MEDINA LOOP

SHEET INDEX

SHEET #	TITLE	PAGE #
	GENERAL	
GI100	COVER SHEET	1
GC100	EXISTING ROADS - SITE MAP	2
	BASE BID	
VF101	SURVEY ENLARGEMENT 1 - WEST CEMETARY	3
VF102	SURVEY ENLARGEMENT 2 - WEST CEMETARY	4
VF103	SURVEY ENLARGEMENT 3 - WEST CEMETARY	5
CD101	DEMOLITION PLAN - AUSTIN LOOP	6
CD102	DEMOLITION PLAN - AUSTIN CIRCLE	7
CD103	DEMOLITION PLAN - MEDINA LOOP	8
CP101	PLAN & PROFILE - AUSTIN LOOP (STA. 0+00-9+75)	9
CP102	PLAN & PROFILE - AUSTIN CIRCLE (STA. 0+00-4+69)	10
CP103	PLAN & PROFILE - MEDINA LOOP (STA. 0+00-6+60)	11
CE101	SWPPP NARRATIVE - 1	12
CE102	SWPPP NARRATIVE - 2	13
CE103	EPIC - ENVIRONMENTAL PERMITS, ISSUES, AND COMMITMENTS	14
CS501	SITE DETAILS	15
	BID OPTION 1	
CD101	DEMOLITION PLAN - SAN ANTONIO BLVD	16
CG101	PLAN & PROFILE - SAN ANTONIO BLVD (STA. -0+10-4+80)	17

BID DOCUMENTS

No.	Revisions	Date

CONSULTANT

MEP:	IRRIGATION:	LAND SURVEY:	COMISSIONING:	COST ESTIMATING:
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ARCHITECT/ENGINEER OF RECORD

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VA U.S. Department of Veterans Affairs

Drawing Title: COVER SHEET

Phase: BID DOCUMENTS

Approved: Project Director

Project Title: FORT SAM HOUSTON NATIONAL CEMETERY PHASE 3 EXPANSION & IMPROVEMENTS - ADDITIONAL ROAD REPAIRS

Project Number: 846CM2045

Building Number:

Location: 1520 HARRY WURZBACH RD., SAN ANTONIO, TX 78209

Issue Date: 08/01/2025 | Checked: ES | Drawn: JD

Drawing Number: GI100

Dwg. 1 of 17

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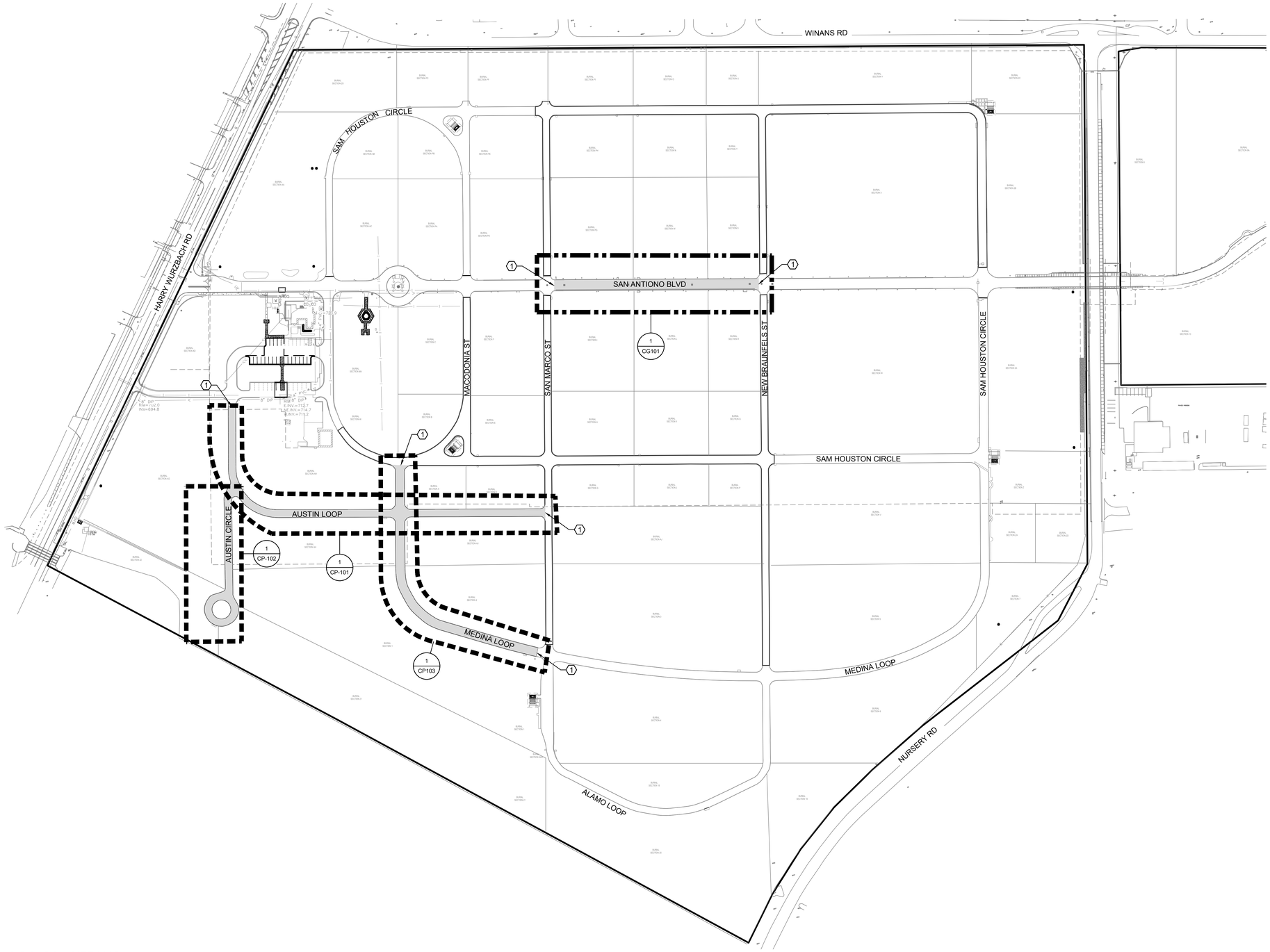
VA FORM 08 - 6231



1 EXISTING ROADS - SITE MAP
SCALE: 1" = 100'

LEGEND

- PROPERTY LIMITS
- CONSTRUCTION LIMITS
- NEW CONCRETE C&G
- NEW ASPHALT PAVEMENT
- BASE BID
- BID OPTION 1

NOTES

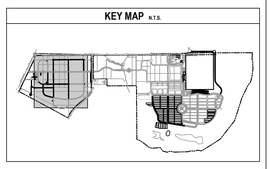
1. SAWCUT ALL EXTENTS PERPENDICULAR TO ROAD.
2. REMOVE ALL CURB & GUTTER WITHIN PAVEMENT REMOVAL AREA.
3. REINSTALL PAVEMENT SECTION PER DETAILS ON SHEET CS501.
4. REINSTALL CURB & GUTTER PER DETAILS ON SHEET CS501.

KEY NOTES:

1. WHERE FULL-DEPTH REPLACEMENT CONNECTS TO ADJACENT PAVEMENT MILL AND OVERLAY 2' OF ADJACENT PAVEMENT AT A DEPTH OF 2" TO COMPLETE TIE IN

0 100' 200' N

KEY MAP N.T.S.



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Drawing Title: EXISTING ROADS - SITE MAP

Phase: BID DOCUMENTS

Approved: Project Director

Project Title: FORT SAM HOUSTON NATIONAL CEMETERY PHASE 3 EXPANSION & IMPROVEMENTS - ADDITIONAL ROAD REPAIRS

Project Number: 846CM2045

Building Number:

Location: 1520 HARRY WURZBACH RD., SAN ANTONIO, TX 78209

Issue Date: 08/01/2025 | Checked: ES | Drawn: JD

Drawing Number: GC100

Dwg. 2 of 17

VA FORM 08 - 6231

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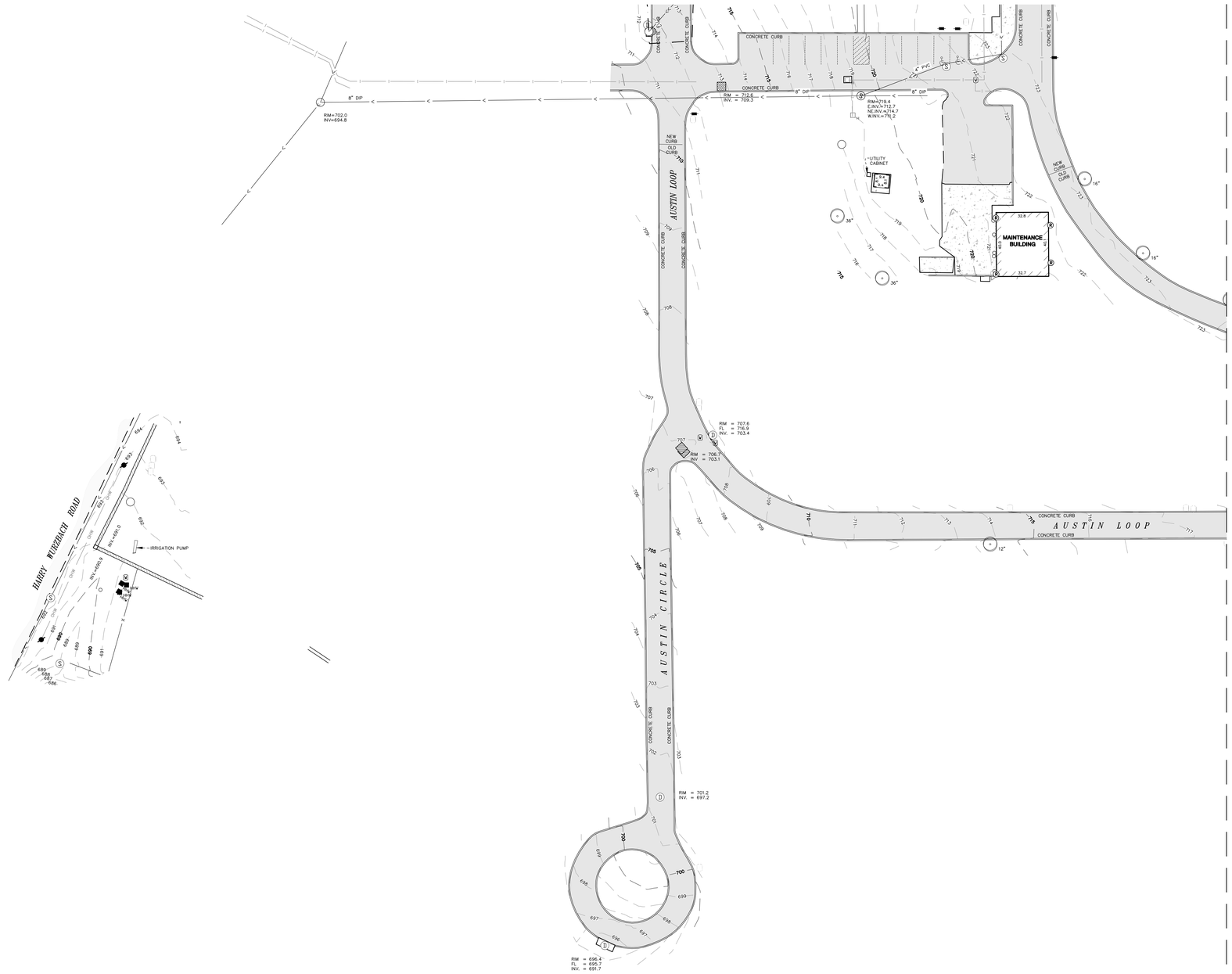


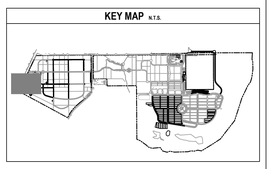
LEGEND

- AIR CONDITIONER
- CATCH BASIN
- CLEAN OUT
- CULVERT
- ELECTRIC BOX
- ELECTRIC METER
- GAS METER
- GUARD POST
- HANDICAP PARKING
- HANDHOLE
- HANDHOLE COMMUNICATIONS
- HANDHOLE ELECTRIC
- HANDHOLE WATER
- HEADSTONE
- HYDRANT
- IRRIGATION EQUIPMENT
- IRRIGATION CONTROL PANEL
- LIGHT POLE
- MANHOLE
- POWER POLE
- POWER POLE ANCHOR
- ROOF DRAIN
- SANITARY MANHOLE
- SIGN
- WATER MANHOLE
- WATER VALVE
- CONIFEROUS TREE
- DECIDUOUS TREE
- ASPHALT
- PROPERTY LINE
- FENCE
- GAS MAIN
- OVERHEAD WIRES
- STORM SEWER
- CONCRETE SURFACE
- BITUMINOUS SURFACE
- GRAVEL SURFACE
- RETAINING WALLS
- SURVEY AREA FROM MARCH 2020

N W E S

0 30 60
SCALE IN FEET

KEY MAP N.T.S.



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Drawing Title: SURVEY ENLARGEMENT 1 - WEST CEMETARY

Approved: Project Director

Phase: BID DOCUMENTS

Project Title: FORT SAM HOUSTON NATIONAL CEMETERY PHASE 3 EXPANSION & IMPROVEMENTS - ADDITIONAL ROAD REPAIRS

Location: 1520 HARRY WURZBACH RD., SAN ANTONIO, TX 78209

Issue Date: 08/01/2025 | Checked: NH | Drawn: JL

Project Number: 846CM2045

Building Number:

Drawing Number: VF101

Dwg. 3 of 17

VA FORM 08 - 6231

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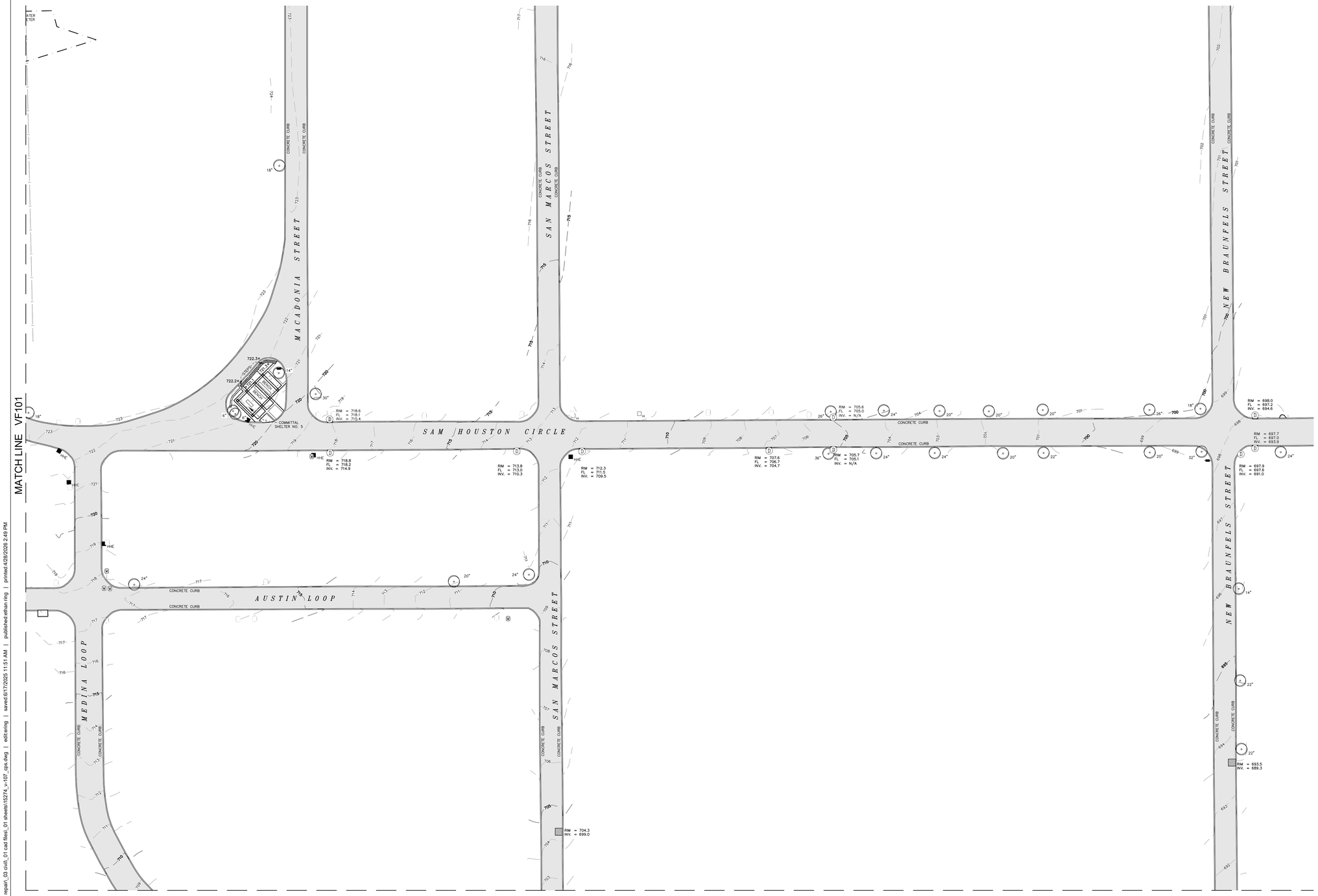

LEGEND

- AIR CONDITIONER
- CATCH BASIN
- CLEAN OUT
- CULVERT
- ELECTRIC BOX
- ELECTRIC METER
- GAS METER
- GUARD POST
- HANDICAP PARKING
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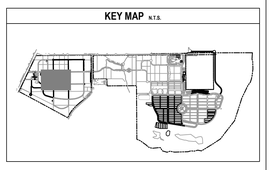
- GRAVEL SURFACE
- RETAINING WALLS
- SURVEY AREA FROM MARCH 2020

N W E S

0 30 60
SCALE IN FEET

KEY MAP N.T.S.



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Drawing Title: SURVEY ENLARGEMENT 2 - WEST CEMETARY

Approved: Project Director

Phase: BID DOCUMENTS

Project Title: FORT SAM HOUSTON NATIONAL CEMETERY PHASE 3 EXPANSION & IMPROVEMENTS - ADDITIONAL ROAD REPAIRS

Location: 1520 HARRY WURZBACH RD., SAN ANTONIO, TX 78209

Issue Date: 08/01/2025 | Checked: NH | Drawn: JL

Project Number: 846CM2045

Building Number:

Drawing Number: VF102

Dwg. 4 of 17

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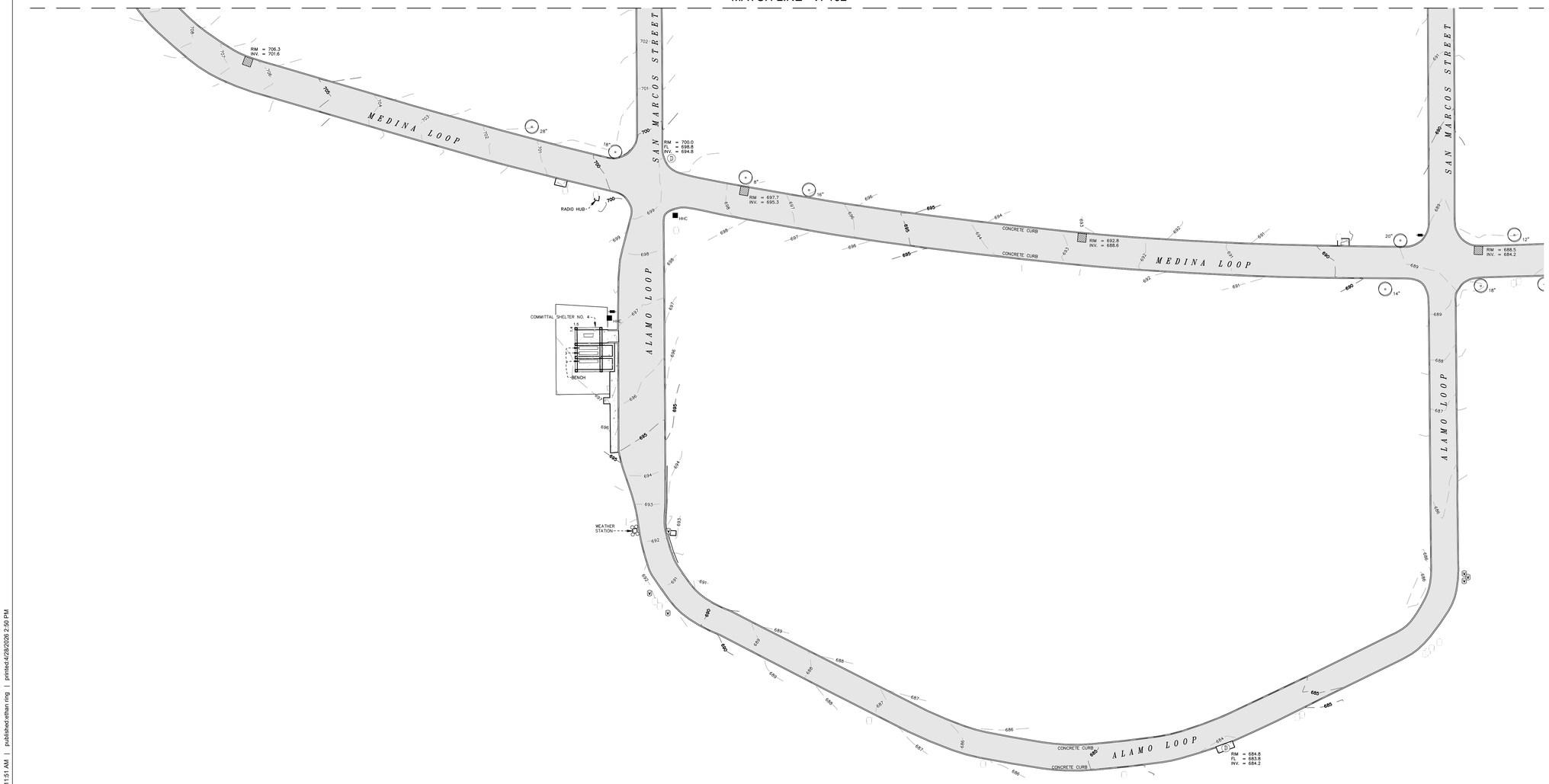

LEGEND

- AIR CONDITIONER
- CATCH BASIN
- CLEAN OUT
- CULVERT
- ELECTRIC BOX
- ELECTRIC METER
- GAS METER
- GUARD POST
- HANDICAP PARKING
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N W E S

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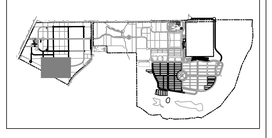
SCALE IN FEET

KEY MAP N.T.S.



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Drawing Title: SURVEY ENLARGEMENT 3 - WEST CEMETARY

Approved: Project Director

Phase: BID DOCUMENTS

Project Title: FORT SAM HOUSTON NATIONAL CEMETERY PHASE 3 EXPANSION & IMPROVEMENTS - ADDITIONAL ROAD REPAIRS

Location: 1520 HARRY WURZBACH RD., SAN ANTONIO, TX 78209

Issue Date: 08/01/2025 | Checked: NH | Drawn: JL

Project Number: 846CM2045

Building Number:

Drawing Number: VF103

Dwg. 5 of 17

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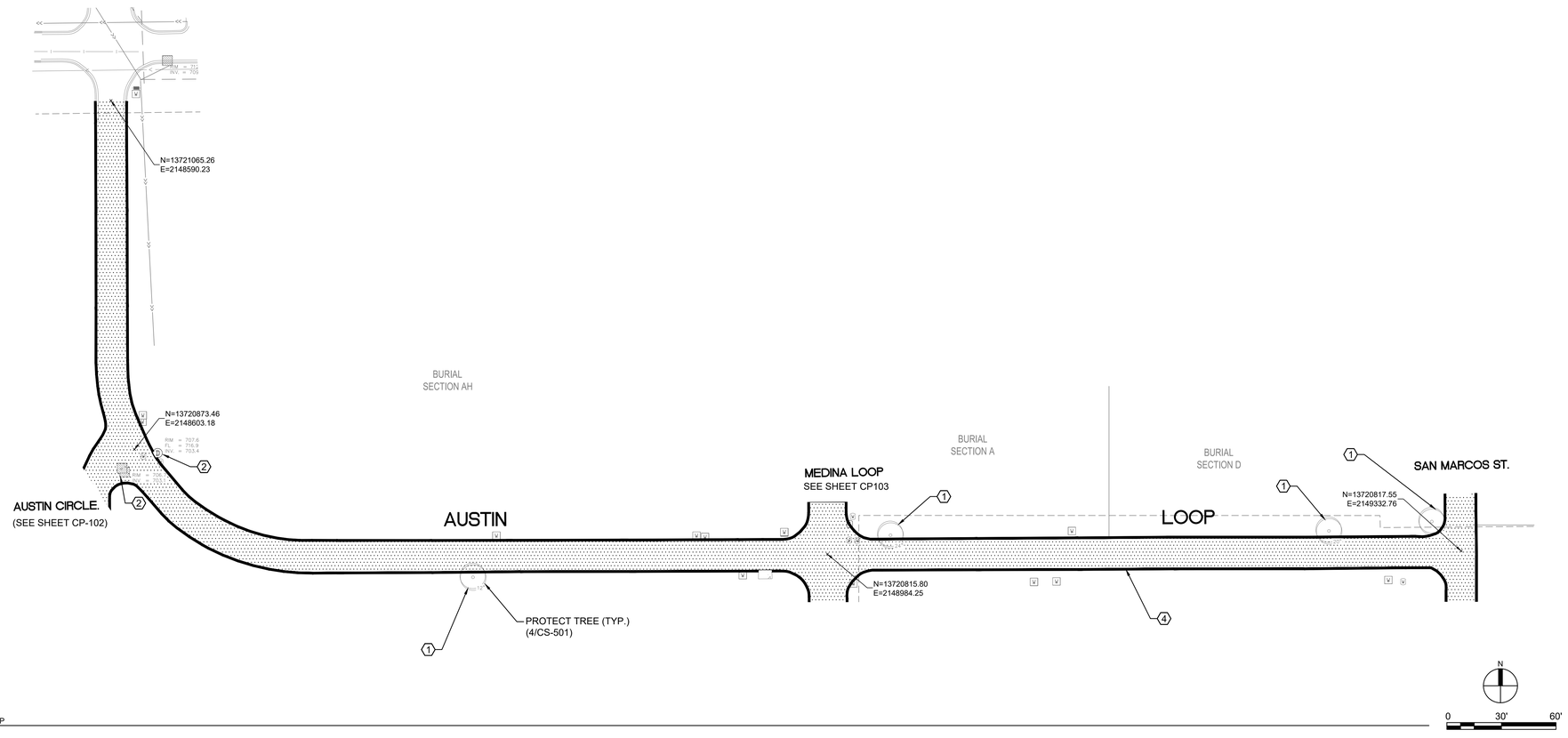


1 DEMOLITION PLAN - AUSTIN LOOP
SCALE: 1" = 30'

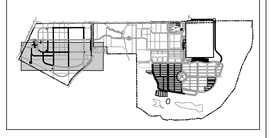
LEGEND

	PROPERTY LIMITS
	CONSTRUCTION LIMITS
	EXISTING WATERMAIN
	EXISTING SANITARY SEWER
	EXISTING STORM SEWER
	EXISTING FENCE
GAS	EXISTING GAS MAIN
OHW	EXISTING OVERHEAD WIRES
TEL	EXISTING TELEPHONE
UE	EXISTING UNDERGROUND ELECTRIC
	EXISTING HYDRANT AND GV
	EXISTING SANITARY MANHOLE
	EXISTING STORM SEWER INLET
	REMOVE EXISTING ASPHALT PAVEMENT
	REMOVE EXISTING CONCRETE C&G

KEY NOTES

1. PROTECT EXISTING TREE.
2. PROTECT EXISTING CATCH BASIN INLET
3. NA
4. REMOVE & REPLACE EXISTING CURB & GUTTER

KEY MAP N.T.S.



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Approved: Project Director		Location: 1520 HARRY WURZBACH RD., SAN ANTONIO, TX 78209	Building Number:
		Issue Date: 08/01/2025 · Checked: ES · Drawn: JD	Drawing Number: CD101 Dwg. 6 of 17

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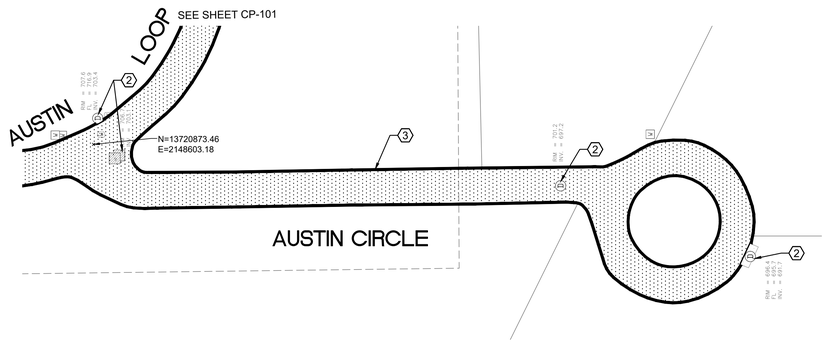

1 DEMOLITION PLAN - AUSTIN CIRCLE
SCALE: 1" = 30'

LEGEND

- PROPERTY LIMITS
- CONSTRUCTION LIMITS
- EXISTING WATERMAIN
- EXISTING SANITARY SEWER
- EXISTING STORM SEWER
- EXISTING FENCE
- EXISTING GAS MAIN
- EXISTING OVERHEAD WIRES
- EXISTING TELEPHONE
- EXISTING UNDERGROUND ELECTRIC
- EXISTING HYDRANT AND GV
- EXISTING SANITARY MANHOLE
- EXISTING STORM SEWER INLET
- REMOVE EXISTING ASPHALT PAVEMENT
- REMOVE EXISTING CONCRETE C&G

KEY NOTES

1. PROTECT EXISTING TREE.
2. PROTECT EXISTING CATCH BASIN INLET
3. REMOVE & REPLACE EXISTING CURB AND GUTTER

N

0 30' 60'

KEY MAP N.T.S.

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Drawing Title: DEMOLITION PLAN - AUSTIN CIRCLE

Approved: Project Director

Phase: BID DOCUMENTS

Project Title: FORT SAM HOUSTON NATIONAL CEMETERY PHASE 3 EXPANSION & IMPROVEMENTS - ADDITIONAL ROAD REPAIRS

Location: 1520 HARRY WURZBACH RD., SAN ANTONIO, TX 78209

Issue Date: 08/01/2025

Checked: ES

Drawn: JD

Project Number: 846CM2045

Building Number:

Drawing Number: CD102

Dwg. 7 of 17

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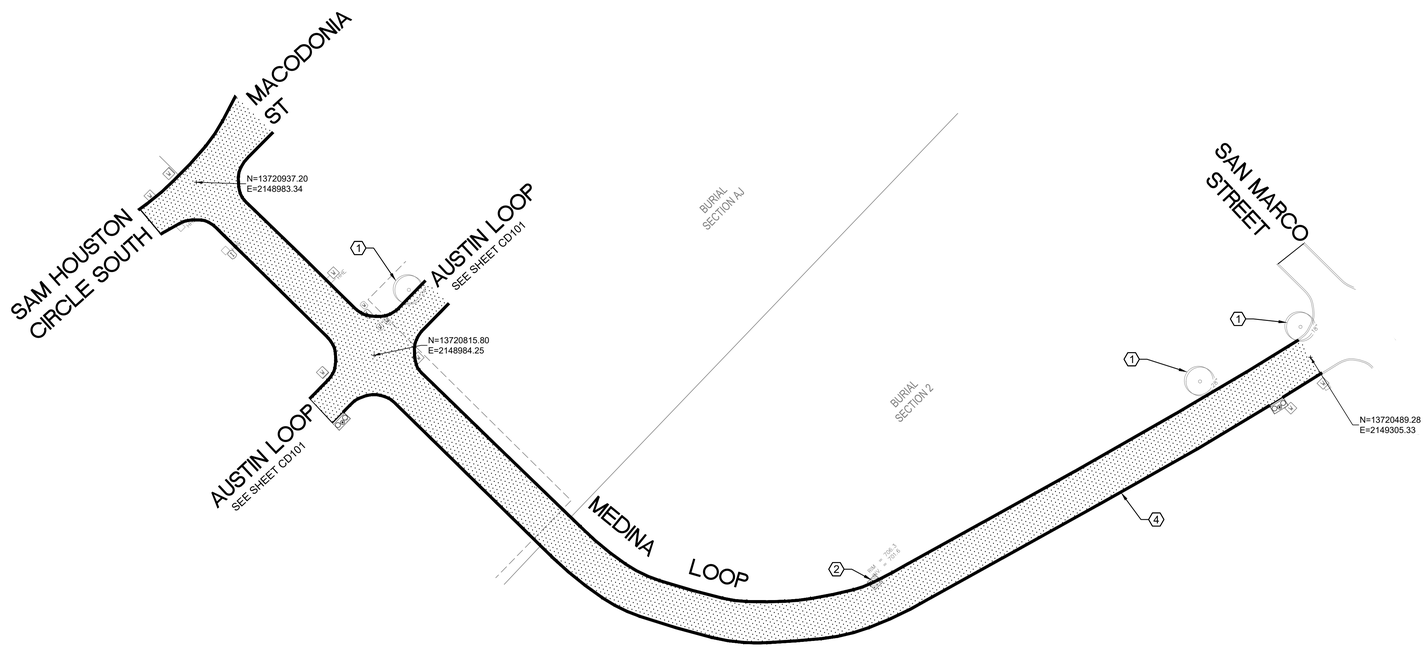
VA FORM 08 - 6231



1 DEMOLITION PLAN - MEDINA LOOP
SCALE: 1" = 30'

N

0 30' 60'

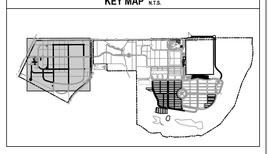
LEGEND

- PROPERTY LIMITS
- CONSTRUCTION LIMITS
- EXISTING WATERMAIN
- EXISTING SANITARY SEWER
- EXISTING STORM SEWER
- EXISTING FENCE
- GAS — EXISTING GAS MAIN
- OHW — EXISTING OVERHEAD WIRES
- TEL — EXISTING TELEPHONE
- UE — EXISTING UNDERGROUND ELECTRIC
- EXISTING HYDRANT AND GV
- EXISTING SANITARY MANHOLE
- EXISTING STORM SEWER INLET
- REMOVE EXISTING ASPHALT PAVEMENT
- REMOVE EXISTING CONCRETE C&G

KEY NOTES

1. PROTECT EXISTING TREE.
2. PROTECT EXISTING CATCH BASIN INLET
3. NA
4. REMOVE & REPLACE EXISTING CURB & GUTTER

KEY MAP N.T.S.



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No.	Revisions	Date

CONSULTANT

MEP:	IRRIGATION:	LAND SURVEY:	COMISSIONING:	COST ESTIMATING:
IMEG CORP.	**AQUA**	**ANDERSON ENGINEERING**	**ENVIROS**	**OCMI**
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13605 1st Ave. N. #100 Plymouth, MN 55441
P 763.412.4000 | F 763.412.4090 | ae-mn.com
Anderson Engineering of Minnesota, LLC | Proj # 15274

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: DEMOLITION PLAN - MEDINA LOOP

Phase: BID DOCUMENTS

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Drawing Number: CD103

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VA FORM 08 - 6231

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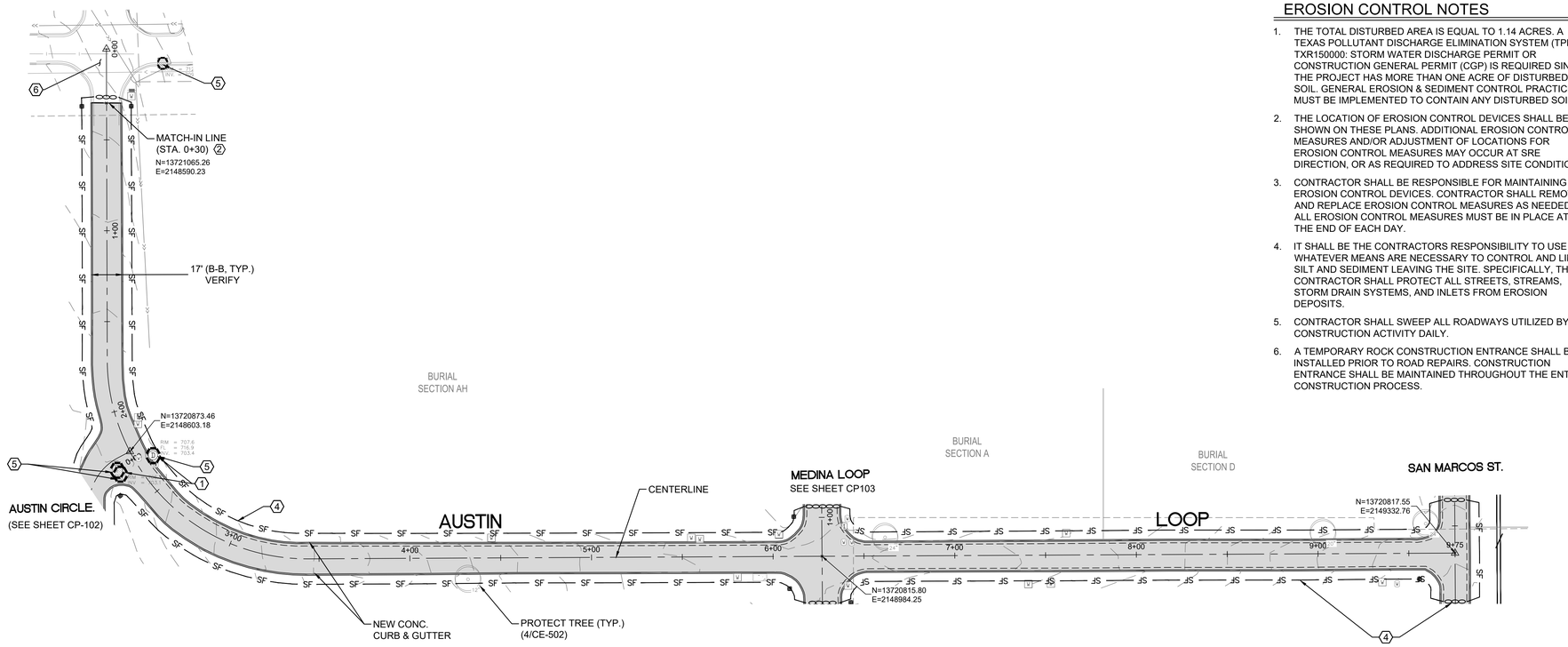
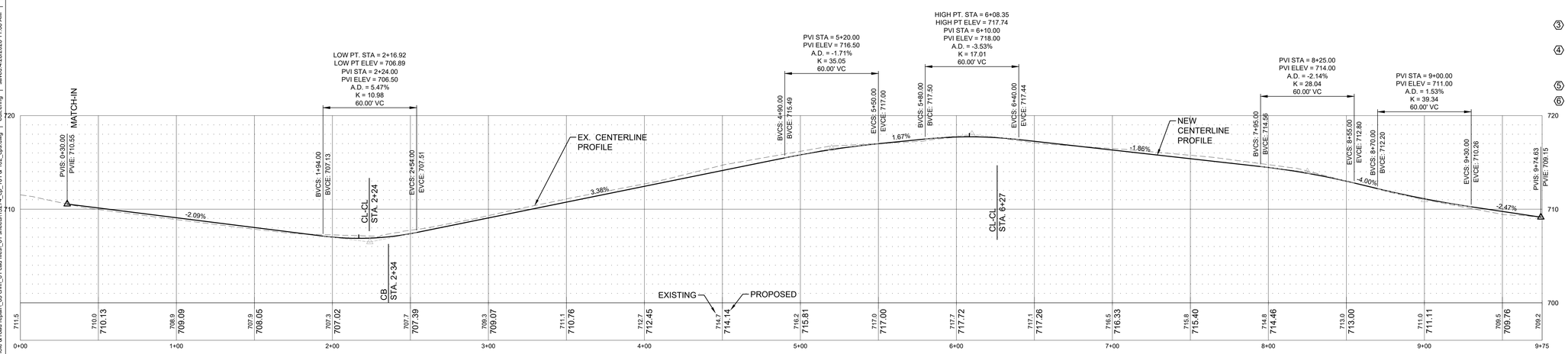


1 PLAN VIEW AUSTIN LOOP STA. 0+00 - 9+75
SCALE: 1" = 30'



2 PLAN VIEW AUSTIN LOOP STA. 0+00 - 9+75
SCALE: HORIZONTAL 1" = 30' VERTICAL 1" = 5'

EROSION CONTROL NOTES

1. THE TOTAL DISTURBED AREA IS EQUAL TO 1.14 ACRES. A TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM (TPDES) TXR150000: STORM WATER DISCHARGE PERMIT OR CONSTRUCTION GENERAL PERMIT (CGP) IS REQUIRED SINCE THE PROJECT HAS MORE THAN ONE ACRE OF DISTURBED SOIL. GENERAL EROSION & SEDIMENT CONTROL PRACTICES MUST BE IMPLEMENTED TO CONTAIN ANY DISTURBED SOILS.
2. THE LOCATION OF EROSION CONTROL DEVICES SHALL BE AS SHOWN ON THESE PLANS. ADDITIONAL EROSION CONTROL MEASURES AND/OR ADJUSTMENT OF LOCATIONS FOR EROSION CONTROL MEASURES MAY OCCUR AT SRE DIRECTION, OR AS REQUIRED TO ADDRESS SITE CONDITIONS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL EROSION CONTROL DEVICES. CONTRACTOR SHALL REMOVE AND REPLACE EROSION CONTROL MEASURES AS NEEDED. ALL EROSION CONTROL MEASURES MUST BE IN PLACE AT THE END OF EACH DAY.
4. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO USE WHATEVER MEANS ARE NECESSARY TO CONTROL AND LIMIT SILT AND SEDIMENT LEAVING THE SITE. SPECIFICALLY, THE CONTRACTOR SHALL PROTECT ALL STREETS, STREAMS, STORM DRAIN SYSTEMS, AND INLETS FROM EROSION DEPOSITS.
5. CONTRACTOR SHALL SWEEP ALL ROADWAYS UTILIZED BY CONSTRUCTION ACTIVITY DAILY.
6. A TEMPORARY ROCK CONSTRUCTION ENTRANCE SHALL BE INSTALLED PRIOR TO ROAD REPAIRS. CONSTRUCTION ENTRANCE SHALL BE MAINTAINED THROUGHOUT THE ENTIRE CONSTRUCTION PROCESS.

LEGEND

- PROPERTY LIMITS
- CONSTRUCTION LIMITS
- EXISTING WATERMAIN
- EXISTING SANITARY SEWER
- EXISTING STORM SEWER
- NEW CONCRETE CURB & GUTTER
- NEW ASPHALT PAVEMENT
- BIOROLL
- SF — SILT FENCE
- INLET SEDIMENT PROTECTION

GENERAL NOTES

1. ROAD AREAS TO BE REMOVED ARE INTENDED TO BE REPLACED TO THE EXISTING VERTICAL DESIGN. VERTICAL DESIGN DATA HAS BEEN ADDED FOR CONSTRUCTION PURPOSES TO SHOW THE INTENT OF PROPER DRAINAGE. THE CONTRACTOR SHALL USE THE PROPOSED CENTER LINES AND MAY ADJUST AS NECESSARY TO IMPROVE DRAINAGE. VERIFY EXISTING CATCH BASIN INLET TIE-INS MATCH THE PROPOSED PROFILES. THE CONTRACTOR SHALL NOTIFY THE S.R.E. OF ANY VARIATION FROM EXISTING THAT MAY ADVERSELY AFFECT DRAINAGE OR IMPACT ADJACENT AREAS. THE S.R.E. AND ENGINEER WILL REVIEW AND MAKE FIELD ADJUSTMENTS IN THOSE AREAS AS NEEDED PRIOR TO CONSTRUCTION OF NEW PAVEMENTS. DISTURBANCE OF GRAVE SITES ARE PROHIBITED.
2. TAPER NEW ROAD EDGE OVER 10' MIN DISTANCE TO MATCH EXISTING ROAD.
3. CONFIRM LOCATION OF EXIST. UTILITIES PRIOR TO CONSTRUCTION OR CONNECTION.
4. SOME MATCH-IN LOCATIONS AND PROJECT LIMITS SHOWN, ARE UNVERIFIED. ACTUAL PROJECT LIMITS MUST BE VERIFIED BY CONTRACTOR. NOTIFY RE IMMEDIATELY IN THE EVENT OF DISCREPANCY.
5. NEW ROADWAY WIDTHS & CURB RADII, SHALL MATCH EXISTING CONDITIONS.
6. ALL PAVEMENT MARKINGS SHALL MATCH EXISTING CEMETERY OPERATIONS.
7. ALL DAMAGED TURF ALONG THE BACK OF CURB SHALL BE REPLACED BY THE CONTRACTOR WITH SOD. CONTRACTOR TO WATER SOD UNTIL ACCEPTABLE ESTABLISHMENT.

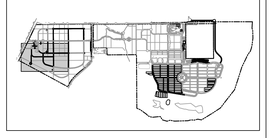
CONTRACTOR NOTES

1. ALL NEW ROADWAY TO BE INSTALLED WITH CONCRETE CURB & GUTTER UNLESS OTHERWISE NOTED. REMOVE & REPLACE IN-KIND CONCRETE SPILL WAY INTO CATCH BASINS AS NECESSARY.
2. BENCHMARK, SEE TOPOGRAPHIC SURVEY.
3. FULL-DEPTH PAVEMENT & CURB REMOVAL SHALL OCCUR IN ALL AREAS SHOWN AS RECEIVING NEW PAVEMENT.
4. REMOVE ANY TREE ROOTS TO 2' BEYOND BACK OF CURB.

KEY NOTES

1. MATCH EXISTING GRADE AT EXISTING CATCH BASIN INLET.
2. MATCH-IN LINE IS SHOWN IN APPROXIMATE LOCATION. ACTUAL LOCATION MAY VARY UPON FIELD VERIFICATION AND OWNER COORDINATION.
3. NA
4. INSTALL & MAINTAIN SILT FENCE PERIMETER SEDIMENT PROTECTION IN GRASSED AREAS. USE BIO-ROLLS IN PAVED AREAS.
5. INSTALL & MAINTAIN INLET SEDIMENT PROTECTION.
6. INSPECT STREET FOR SEDIMENT TRACKING DAILY

KEY MAP N.T.S.



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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: PLAN & PROFILE - AUSTIN LOOP (STA. 0+00-9+75)

Approved: Project Director

Phase: BID DOCUMENTS

Project Title: FORT SAM HOUSTON NATIONAL CEMETERY PHASE 3 EXPANSION & IMPROVEMENTS - ADDITIONAL ROAD REPAIRS

Project Number: 846CM2045

Building Number:

Location: 1520 HARRY WURZBACH RD., SAN ANTONIO, TX 78209

Issue Date: 08/01/2025 | Checked: ES | Drawn: JD

Drawing Number: CP101

Dwg. 9 of 17

VA FORM 08 - 6231

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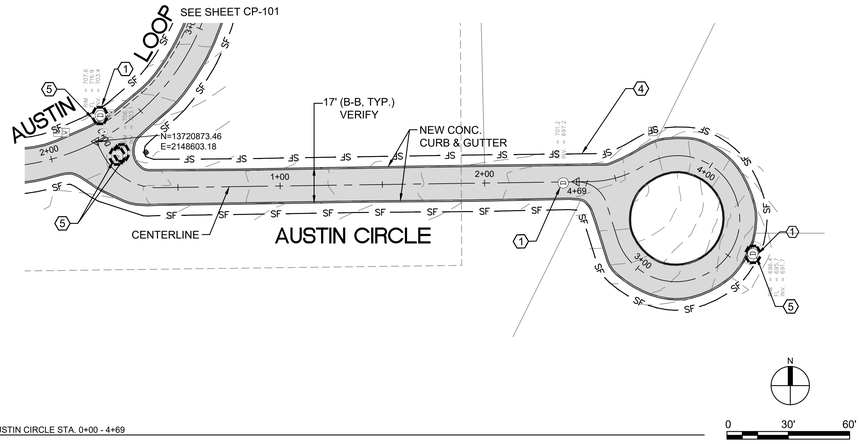
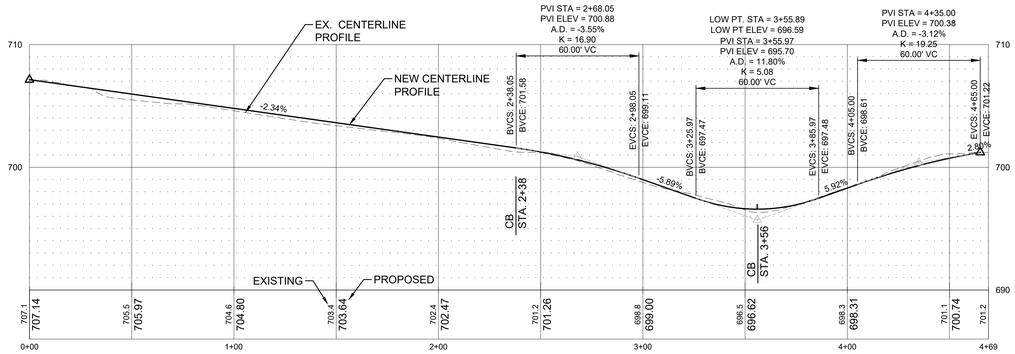


1 PLAN VIEW AUSTIN CIRCLE STA. 0+00 - 4+69
SCALE: 1" = 30'



2 PLAN VIEW AUSTIN CIRCLE STA. 0+00 - 4+69
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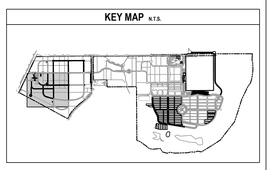
KEY MAP N.T.S.



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Drawing Title: PLAN & PROFILE - AUSTIN CIRCLE (STA. 0+00-4+69)

Approved: Project Director

Phase: BID DOCUMENTS

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Dwg. 10 of 17

VA FORM 08 - 6231

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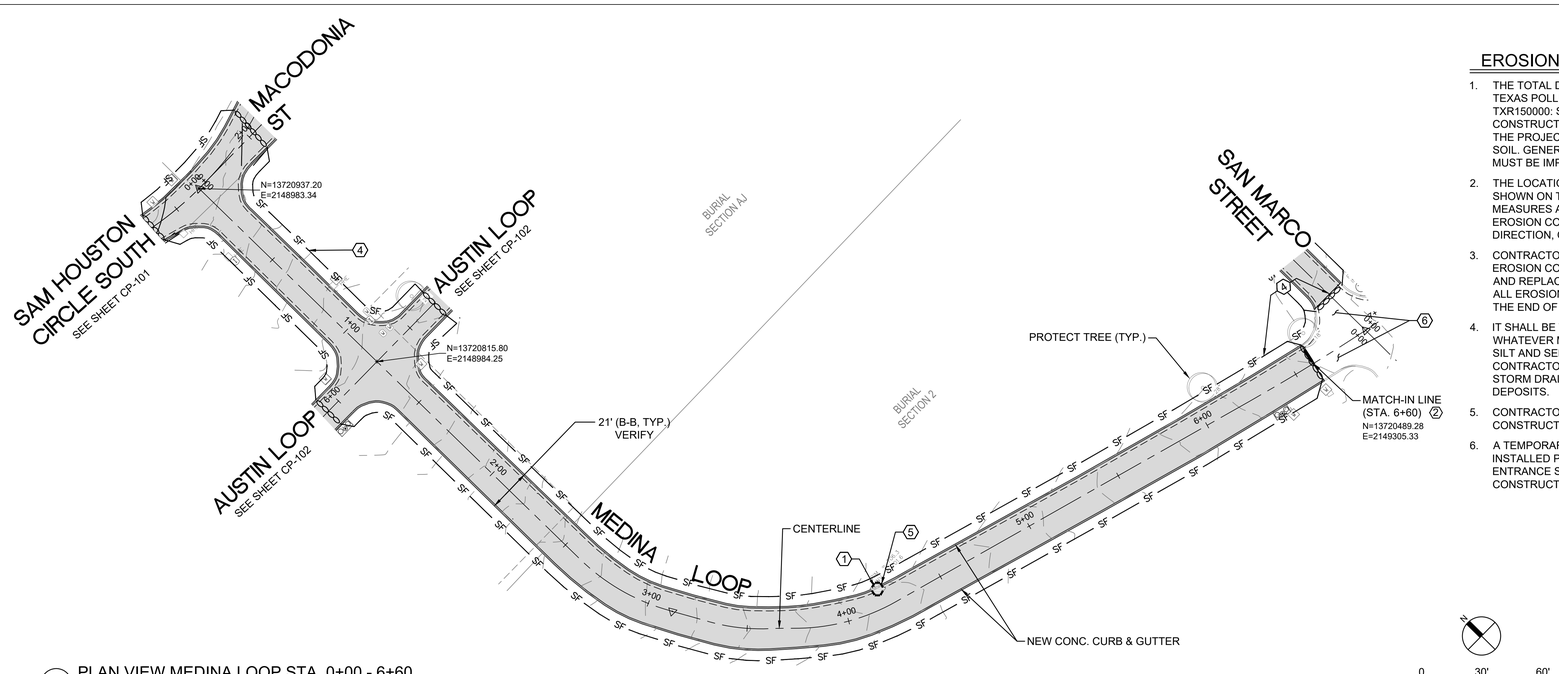

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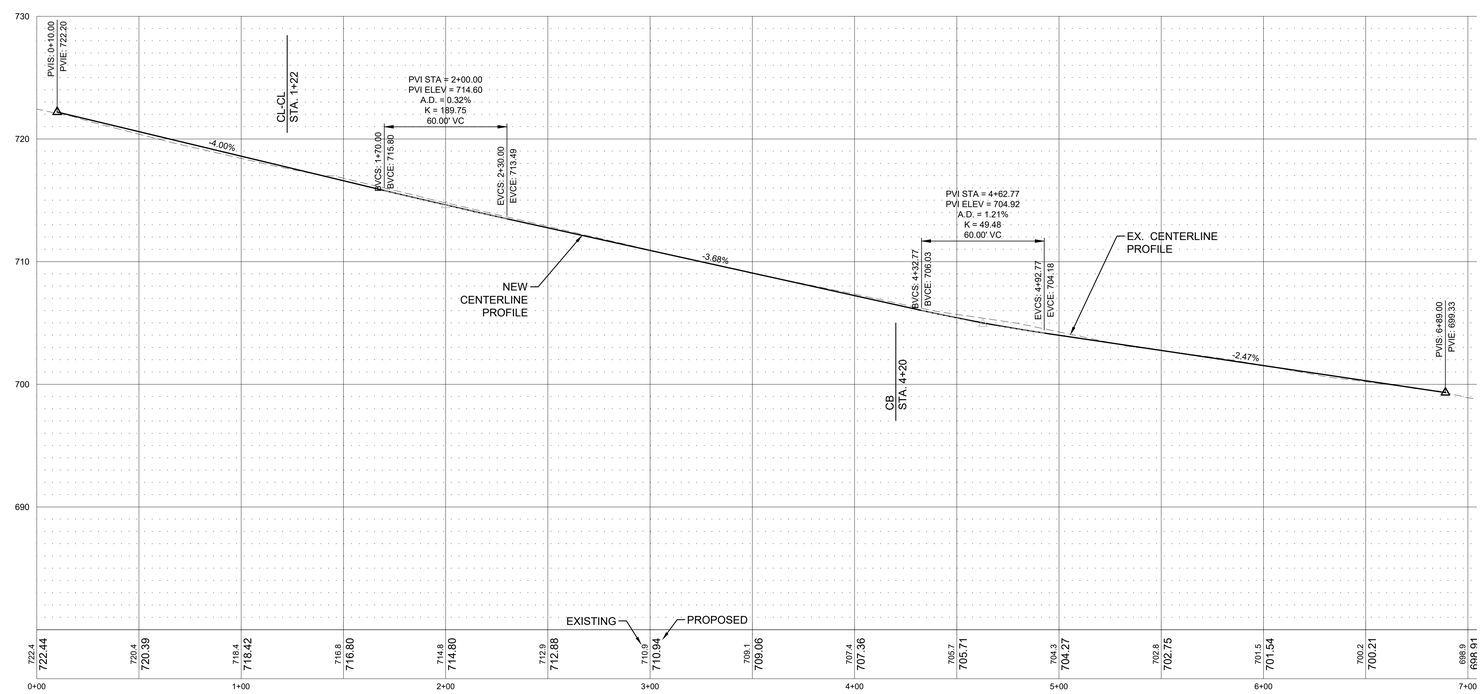

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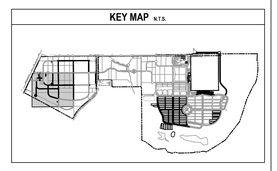
KEY MAP N.T.S.



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214-485-6433	970-372-6104	763-421-4000	651-319-6599	469-431-0571
MARIO ARREDONDO	ROBERT BECCARD	ERIC SAUTBINE	SCOTT SINCLAIR	KYLE VEATER

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Anderson Engineering of Minnesota, LLC | Proj # 15274

STAMP

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: PLAN & PROFILE - MEDINA LOOP (STA. 0+00-6+60)

Approved: Project Director

Phase: BID DOCUMENTS

Project Title: FORT SAM HOUSTON NATIONAL CEMETERY PHASE 3 EXPANSION & IMPROVEMENTS - ADDITIONAL ROAD REPAIRS

Location: 1520 HARRY WURZBACH RD., SAN ANTONIO, TX 78209

Project Number: 846CM2045

Building Number:

Drawing Number: CP103

Dwg. 11 of 17

Issue Date: 08/01/2025 | Checked: ES | Drawn: JD

File Path: y:\16900\16945 fort sam houston nc cspi_14 cps phase_08 manhole & road repair_03 civil_01 cad files_01 sheets\15274_cp_108 medina loop_cps.dwg | edit:ering | saved:4/28/2026 11:06 AM | published:ethan ring | printed:4/28/2026 2:51 PM

VA FORM 08 - 6231

SITE DESCRIPTION

1. PROJECT NAME AND LOCATION: FORT SAM HOUSTON NATIONAL CEMETERY
PHASE 3 EXPANSION & IMPROVEMENTS - ADDITIONAL ROAD REPAIRS
1520 HARRY WURZBACH RD
SAN ANTONIO, TX 78209

2. CONTACT AND PHONE NO.:

3. PROJECT DESCRIPTION: PHASE 3 EXPANSION & IMPROVEMENTS INCLUDE THE DEVELOPMENT OF 43 ACRES OF LAND FOR GRAVESITES THAT WILL INCLUDE A NEW ACCESS ROAD ALONG THE NORTH EAST PORTION OF THE CEMETERY ALONG WITH THE CONSTRUCTION OF AN HONOR GUARD BUILDING, MATERIAL STORAGE BUILDING AND EQUIPMENT STORAGE BUILDING. THE PROJECT WILL ALSO EXPAND THE ADMINISTRATION BUILDING AND RENOVATE THE PUBLIC INFORMATION CENTER AND RETROFIT EXISTING BUILDINGS TO ACCOMMODATE PRINCIPLES FOR HIGH PERFORMANCE AND SUSTAINABLE BUILDINGS MOU AND RENEWABLE ENERGY INITIATIVES.

4. ___ LINEAR ROW OR X NON LINEAR ROW

5. POTENTIAL POLLUTANT SOURCES AT THE CONSTRUCTION PROJECT MAY INCLUDE (CHECK ALL THAT APPLY):

X DUST	X LITTER/TRASH	X CONTAMINATED SOILS
X VEHICLE FLUIDS	X AGGREGATE, BASE, SAND	X FERTILIZERS/HERBICIDES
X OIL AND GREASE	___ SAND SPOILS	
X OTHER CHEMICALS (DESCRIBE) MEDICAL WASTE		

6. MAJOR SOIL DISTURBING ACTIVITIES: ROAD REPAIRS

TOTAL PROJECT AREA (ACRES): 1.14 MATERIAL STORAGE AREAS (ACRES): ___ SUPPORTING ASPHALT PLANT: ___

TOTAL AREA TO BE DISTURBED: 1.14 SUPPORTING CONCRETE BATCH PLANT: ___ SUPPORTING BARROW PIT: ___

LAYDOWN YARDS: ___ OTHER: ___

7. WEIGHTED RUNOFF COEFFICIENT: (AFTER CONSTRUCTION) 82

8. EXISTING CONDITION OF SOIL, VEGETATIVE COVER AND % OF VEGETATIVE COVER: THE PROJECT AREA IS BITUMINOUS PAVEMENT.

9. DESCRIPTION OF WATER DISCHARGED NOT ASSOCIATED WITH CONSTRUCTION: WATER DISCHARGED FOR THE PROPOSED ROAD REPAIRS FLOWS INTO THE EXISTING STORM SEWER SYSTEM.

10. NAMES AND SEGMENT NUMBERS OF RECIEVING WATERS THAT WILL RECEIVE DISCHARGES FROM DISTURBED AREAS OF PROJECT:

11. IDENTIFY STORMWATER DISCHARGE POINTS: STORM WATER WILL DISCHARGE INTO THE STORMWATER POND TO THE SOUTH AND SHEET FLOW INTO SALADO CREEK, DRAIN INTO EXISTING STORM NETWORK AND OUT TO SALADO CREEK, EXPANSION DRAINS NORTH TO GRADED REACH THEN TO SALADO CREEK.

12. A DESCRIPTION AND TIME FRAME FOR INSTALLATION OF STABILIZATION PRACTICES IN CONJUNCTION WITH CONSTRUCTION: STABILIZATION MEASURES MUST BE INITIATED IMMEDIATELY IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY CEASED AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS. THIS WILL BE ACCOMPLISHED THROUGH EROSION CONTROL MATS IN AREAS ON THE SITE WHERE THE SLOPES EXCEED 4:1.

EROSION AND SEDIMENTATION CONTROLS

1. SOIL STABILIZATION PRACTICES:

X	HYDROMULCHING	___	PRESERVATION OF NATURAL RESOURCES
X	TEMPORARY SEEDING	___	FLEXIBLE CHANNEL LINER
X	PERMANENT PLANTING, SODDING OR SEEDING	___	RIGID CHANNEL LINER
___	MULCHING	___	COMPOST MANUFACTURED TOPSOIL
___	SOIL RETENTION BLANKET	X	BIO LOGS
___	BUFFER ZONES	___	OTHER

OTHER:

2. STRUCTURAL PRACTICES:

X	SILT FENCES	___	CHANNEL LINERS
___	HAY BALES	___	SEDIMENT TRAPS
___	GRAVEL FILTRATION BAGS	___	SEDIMENT BASINS
___	ROCK BERMS	X	STORM INLET SEDIMENT TRAP
___	DIVERSION, INTERCEPTOR OR PERIMETER DIKES	___	STONE OUTLET SEDIMENT STRUCTURES
___	DIVERSION, INTERCEPTOR OR PERIMETER SWALES	X	CURBS AND GUTTERS
___	DIVERSION, DIKE AND SWALE COMBINATIONS	X	STORM SEWERS
___	PAVED FLUMES	___	VELOCITY CONTROL STRUCTURES
X	ROCK BEDDING AT CONSTRUCTION EXIT (STABILIZED ENTRANCE)	___	GEOTEXTILES
___	TIMBER MATTING AT CONSTRUCTION EXIT (STABILIZED ENTRANCE)		

OTHER:

3. NARRATIVE - SEQUENCE OF CONSTRUCTION (STORMWATER MANAGEMENT) ACTIVITIES:
THE ORDER OF ACTIVITIES WILL BE AS FOLLOWS:
1: INSTALL SEDIMENT BMP'S BEFORE EARTH DISTURBING ACTIVITIES
2: FINAL GRADING AND STABILIZATION

4. A DESCRIPTION OF MAINTENANCE PROCEDURES FOR CONTROL MEASURES USED: ALL PROTECTIVE MEASURES MUST BE MAINTAINED IN EFFECTIVE OPERATING CONDITION. IF, THROUGH INSPECTIONS OR OTHER MEANS, AS SOON AS THE BMP'S ARE NOT OPERATING EFFECTIVELY, THEN MAINTENANCE SHALL BE PERFORMED AS NECESSARY TO MAINTAIN THE CONTINUED EFFECTIVENESS OF STORMWATER CONTROLS, AND PRIOR TO THE NEXT RAIN EVENT IF FEASIBLE. IF INSPECTIONS INDICATE THAT A CONTROL HAS BEEN USED INCORRECTLY, IS NOT PERFORMING CORRECTLY, OR HAS BEEN DAMAGED, IT SHALL BE REPLACED OR MODIFIED AS SOON AS PRACTICAL. SEDIMENT MUST BE REMOVED FROM SEDIMENTS TRAPS AND SEDIMENTATION PONDS NO LATER THAN THE TIME THAT DESIGN CAPACITY HAS BEEN REDUCED BY 50%. FOR PERIMETER CONTROLS SUCH AS SILT FENCES, THE TRAPPED SEDIMENT MUST BE REMOVED BEFORE IT REACHES 50% OF THE ABOVE-GROUND HEIGHT.

5. STORMWATER MANAGEMENT: STORMWATER MANAGEMENT WILL BE ACCOMPLISHED THROUGH TEMPORARY BMPS. DURING CONSTRUCTION, BMP'S SHOWN IN ITEMS 1 & 2 WILL BE UTILIZED TO CONTROL STORMWATER.

6. A DESCRIPTION OF PERMANENT STORM WATER MANAGEMENT CONTROLS: NA

7. THE FOLLOWING ITEMS SHOULD BE UPDATED AS NECESSARY AND BE INCLUDED AS PART OF THE WEEKLY INSPECTION REPORTS:

SCHEDULE OF CONSTRUCTION ACTIVITIES IS MAINTAINED BY ___ AND CAN BE ACCESSED BY CONTRACTING ___ (NAME) AT ___ (PHONE).

INSTALLATION OF STORMWATER CONTROL MEASURES (INSTALL DATE, OPERATIONAL DATE, DEVIATION FROM MANUFACTURE SPEC.)

COMMENCEMENT AND DURATION OF EARTHWORK, FINAL GRADING, CREATION OF SOIL AND VEGETATION STOCKPILES REQUIRING STABILIZATION:

CESSATION OF CONSTRUCTION ACTIVITIES WITHIN A PORTION OF THE SITE (TEMPORARY AND PERMANENT:

FINAL AND TEMPORARY STABILIZATION AREAS OF EXPOSED SOILS:

FINAL AND TEMPORARY STABILIZATION AREAS OF EXPOSED SOILS:

REMOVAL OF TEMPORARY STORMWATER CHANNELS, CONTROL MEASURES, CONSTRUCTION EQUIPMENT AND VEHICLES, AND CESSATION OF ANY POLLUTANT - GENERATING ACTIVITIES:

8. OTHER EROSION AND SEDIMENTATION CONTROLS

MAINTENANCE:

ALL EROSION AND SEDIMENT CONTROLS WILL BE MAINTAINED IN GOOD WORKING ORDER. IF A REPAIR IS NECESSARY, IT WILL BE DONE AT THE EARLIEST DATE POSSIBLE, BUT NO LATER THAN 7 CALENDAR DAYS AFTER THE SURROUNDING EXPOSED GROUND HAS DRIED SUFFICIENTLY TO PREVENT FURTHER DAMAGE FROM HEAVY EQUIPMENT. THE AREAS ADJACENT TO CREEKS AND DRAINAGE WAYS SHALL HAVE PRIORITY, FOLLOWED BY DEVICES PROTECTING STORM SEWER INLETS.

INSPECTION:

AN INSPECTION WILL BE PERFORMED BY THE CONTRACTOR EVERY 14 DAYS AS WELL AS AFTER EVERY 1/2" OR MORE OF RAIN (RECORDED ON A NON-FREEZING RAIN GAUGE TO BE LOCATED AT THE PROJECT SITE). AN INSPECTION AND MAINTENANCE REPORT WILL BE MADE PER INSPECTION. BASED ON THE INSPECTION RESULTS, THE CONTROLS SHALL BE CORRECTED BEFORE THE NEXT SCHEDULED INSPECTION.

WASTE MATERIALS:

ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL STATE AND LOCAL CITY SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED AS NECESSARY OR AS REQUIRED BY LOCAL REGULATION AND THE TRASH WILL BE HAULED TO A LOCAL DUMP. NO CONSTRUCTION MATERIALS WILL BE BURIED ON SITE.

HAZARDOUS WASTE (INCLUDING SPILL REPORTING):

AT A MINIMUM, ANY PRODUCTS IN THE FOLLOWING CATEGORIES ARE CONSIDERED TO BE HAZARDOUS: PAINTS, ACIDS FOR CLEANING MASONRY SURFACES, GASOLINE, MOTOR OIL, CLEANING SOLVENTS, ASPHALT PRODUCTS, CHEMICAL ADDITIVES FOR SOIL STABILIZATION OR CONCRETE CURING COMPOUNDS AND ADDITIVES. IN THE EVENT OF A SPILL WHICH MAY BE HAZARDOUS AND MEETS REPORTING REQUIREMENTS, THE NATIONAL RESPONSE CENTER SHOULD BE CONTACTED AT 800-424-8802, AND ANY REQUIRED CHANGES MADE TO THE SWPPP. IN THE EVENT OF A LIFE THREATENING SPILL THE SAN ANTONIO FIRE DEPARTMENT SHOULD BE NOTIFIED AS WELL AS THE APPROPRIATE CITY INSPECTORS.

9. SANITARY WASTE:

10. OFFSITE EXCAVATION SOURCE LOCATION:

11. OFFSITE FILL SOURCE LOCATION:

12. OFFSITE VEHICLE TRACKING:

___ HAUL ROADS DAMPENED FOR DUST CONTROL.
___ LOADED HAUL TRUCKS TO BE COVERED WITH TARPAULIN
___ EXCESS DIRT ON ROAD TO BE REMOVED DAILY
___ STABILIZED CONSTRUCTION ENTRANCE.

13. OTHER:
CERTIFICATION THAT SITE DISTURBANCE AND/OR DISCHARGES WILL NOT EFFECT LISTED ENDANGERED SPECIES AND THEIR HABITAT. WHAT METHOD IS USED TO SATISFY THE ENDANGERED SPECIES REQUIREMENTS? CONSTRUCTION OUTSIDE OF NESTING PERIODS OR PERFORMING A BIRD SURVEY PRIOR TO CONSTRUCTION, IF CONSTRUCTION IS PERFORMED INSIDE NESTING DATES.

REMARKS:

DISPOSAL AREAS, STOCKPILES AND HAUL ROADS SHALL BE CONSTRUCTED IN A MANNER THAT WILL MINIMIZE AND CONTROL THE AMOUNT OF SEDIMENT THAT ENTERS RECEIVING WATERS. DISPOSAL AREAS SHALL NOT BE LOCATED IN ANY WETLAND, BODY OF WATER, STREAMBED OR FLOODPLAIN CONSTRUCTION STAGING AREAS AND VEHICLE MAINTENANCE AREAS SHALL BE CONSTRUCTED BY THE CONTRACTOR IN A MANNER TO MINIMIZE THE RUNOFF OF POLLUTANTS. ALL WATERWAYS SHALL BE CLEARED AS SOON AS POSSIBLE OF TEMPORARY EMBANKMENT, TEMPORARY BRIDGES, MATTING, FALSE WORK, PILING DEBRIS OR OTHER OBSTRUCTION PLACED DURING CONSTRUCTION OPERATIONS THAT ARE NOT PART OF THE FINISHED WORK.

NOTE:

SW3P NARRATIVE TO ACCOMPANY SITE MAP AND PROJECT DESIGN SHEETS THAT INCLUDE IDENTIFYING EARTH DISTURBING ACTIVITIES. EXISTING AND PROPOSED SLOPES OF GRADING ACTIVITIES, CONSTRUCTION AND SOIL STOCKPILE LOCATIONS, SURFACE WATER CROSSINGS, DESIGNATED EXIST POINTS, STRUCTURES AND IMPERVIOUS SURFACES TO BE CONSTRUCTED, CONSTRUCTION SUPPORT ACTIVITY AREAS, LOCATION OF ALL SURFACE WATERS IN VICINITY, BOUNDARIES OF NATURAL BUFFERS, AREAS OF FEDERALLY LISTED CRITICAL HABITAT, TOPOGRAPHY, VEGETATIVE COVER AND DRAINAGE PATTERNS OF FLOWS ONTO, OVER AND FROM THE PROJECT SITE, STORMWATER AND ALLOWABLE NON STORMWATER DISCHARGE LOCATIONS. ALL STORM INLETS ON AND IN VICINITY OF THE SITE, LOCATION OF ALL POTENTIAL POLLUTANT GENERATING ACTIVITIES, LOCATION OF STORMWATER CONTROL MEASURES, AND LOCATIONS WHERE POLYMERS, FLOCCULANTS, AND OTHER CHEMICALS WILL BE USED AND STORED.

BID DOCUMENTS

No.	Revisions	Date

CONSULTANT

MEP:	IRRIGATION:	LAND SURVEY:	COMISSIONING:	COST ESTIMATING:
IMEG CORP.	AQUA	ANDERSON ENGINEERING	ENVIROS	OCMI
14755 PRESTON RD STE 845	375 HORSETOOTH ROAD	13605 1ST AVE N STE 100	220 RAMSEY ST	3851 RESEARCH DR
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Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title: SWPPP NARRATIVE - 1
Phase: BID DOCUMENTS
Project Title: FORT SAM HOUSTON NATIONAL CEMETERY PHASE 3 EXPANSION & IMPROVEMENTS - ADDITIONAL ROAD REPAIRS
Project Number: 846CM2045
Building Number:
Approved: Project Director
Location: 1520 HARRY WURZBACH RD., SAN ANTONIO, TX 78209
Issue Date: 08/01/2025
Checked: ES
Drawn: JD
Drawing Number: CE101
Dwg. 12 of 17

VA FORM 08 - 6231

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BEST MANAGEMENT PRACTICES

1. NATURAL BUFFER SECTION:

   ___X___ 50 FOOT (OR MORE) BUFFER ZONE
   _____ LESS THAN 50 FOOT BUFFER ZONE
   _____ LINEAR CONSTRUCTION PROJECT, DOES NOT REQUIRE 50 FOOT BUFFER ZONE

2. GENERAL REQUIREMENTS:
   1. INSTALL PERIMETER CONTROLS TO RETAIN SEDIMENT ON-SITE TO THE EXTENT PRACTICABLE WITH CONSIDERATION FOR LOCAL TOPOGRAPHY, SOIL TYPE, AND RAINFALL
   2. MINIMIZE SEDIMENT TRACK OUT ONTO OFF-SITE STREETS, OR OTHER PAVED AREAS AND SIDEWALKS, RESTRICT VEHICLE USE TO PROPERTY THROUGH DESIGNATED ACCESS POINTS, USE APPROPRIATE STABILIZATION MEASURES. REMOVE SEDIMENT FROM TIRES, WHEN PRACTICABLE.
   3. CONTROL DISCHARGES FROM STOCKPILED SEDIMENT BY:
      1) LOCATING PILES OUTSIDE OF NATURAL BUFFERS AND PHYSICALLY SEPARATING PILES FROM OTHER STORMWATER CONTROLS
      2) USE A TEMPORARY PERIMETER SEDIMENT BARRIER
      3) PROVIDE COVER OR TEMPORARY STABILIZATION, WHERE PRACTICABLE
      4) USE DRY CLEAN UP METHODS TO REMOVE ACCUMULATED SEDIMENT FROM PAVED AREAS
      5) PROTECT FROM WIND WHERE FEASIBLE
      6) MINIMIZE DUST THROUGH THE APPROPRIATE APPLICATION OF WATER
      7) MINIMIZE SLOPES STEEPNESS OF EXPOSED SOILS THROUGH PHASED DISTURBANCE AND IMPLEMENTATION OF BMP'S.
      8) MINIMIZE SOIL COMPACTION IN AREAS WHERE RE-VEGETATION IS PLANNED BY RESTRICTING VEHICLE USE AND CONDITION SOIL PRIOR TO RE-VEGETATION.
      9) PROTECT STORM DRAIN INLETS PRIOR TO LAND DISTURBANCE.

3. SEDIMENTATION BASINS:

   SEDIMENTATION BASINS (CHECK ALL THAT APPLY)
   _____ DRAINAGE AREA > 10 ACRES (SEDIMENTATION BASIN DESIGN ON SHEET _____)
   _____ DRAINAGE AREA > 10 ACRES (SEDIMENTATION BASIN INFEASIBLE - ALTERNATE EQUIVALENT CONTROL DESIGN ON SHEET _____)
   _____ DRAINAGE AREA < 10 ACRES (SEDIMENT TRAPS AND BASINS)
   ___X___ DRAINAGE AREA < 10 ACRES (PERIMETER CONTROLS)

4. DEWATERING PRACTICES:
   1. DO NOT DISCHARGE VISIBLE FLOATING SOLIDS OR FOAM; USE AN OIL-WATER SEPARATOR OR SUITABLE FILTRATION DEVICE THAT IS DESIGNED TO REMOVE OIL, GREASE, OR OTHER PRODUCTS IF DEWATERING WATER IS FOUND TO CONTAIN THESE MATERIALS.
   2. UTILIZE VEGETATED UPLAND AREAS OF THE SITE TO INFILTRATE DEWATERING WATER BEFORE DISCHARGE, WHERE FEASIBLE.
   3. DISCHARGE DEWATERING WATER ONTO A VELOCITY DISSIPATION DEVICE.
   4. MANAGE BACKWASH WATER AS A WASTE OR RETURN IT TO THE BEGINNING OF THE TREATMENT PROCESS.
   5. REPLACE AND CLEAN FILTER MEDIA USED IN DEWATERING DEVICE ACCORDING TO MANUFACTURE'S SPECIFICATIONS.
   6. DO NOT USE TREATMENT CHEMICALS WITHOUT PRIOR WRITTEN CONSENT FROM SRE, A WRITTEN MANAGEMENT PLAN IS REQUIRED FOR USE OF TREATMENT CHEMICALS.

5. NON STORMWATER DISCHARGES:

   THE FOLLOWING NON-STORMWATER DISCHARGES ARE AUTHORIZED FOR DISCHARGE BY THE GENERAL PERMIT. PROJECT SITE MAPS MUST REFLECT THE LOCATIONS OF ANY NON-STORMWATER DISCHARGES. NON-STORMWATER DISCHARGES MUST BE MANAGED BY STORMWATER BMP'S TO PROTECT RECEIVING WATER QUALITY.

   1. DISCHARGES FROM FIRE FIGHTING ACTIVITIES AND/OR FIRE HYDRANT FLUSHING.
   2. VEHICLE, EXTERNAL BUILDING, AND PAVEMENT WASH WATER WHERE DETERGENTS AND SOAPS ARE NOT USED AND WHERE SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE NOT OCCURRED (UNLESS ALL SPILLED MATERIAL HAS BEEN REMOVED).
   3. PLAIN WATER USED TO CONTROL DUST.
   4. PLAIN WATER ORIGINATING FROM POTABLE WATER SOURCES.
   5. UNCONTAMINATED GROUNDWATER, SPRING WATER, OR ACCUMULATED STORMWATER.
   6. FOUNDATION OR FOOTING DRAINS WHERE FLOWS ARE NOT CONTAMINATED WITH PROCESS MATERIALS SUCH AS SOLVENTS.
   7. UNCONTAMINATED AIR CONDITIONING CONDENSATE.
   8. LAWN WATERING OR SIMILAR DRAINAGE.
   9. OTHER: _____

6. PROHIBITED STORMWATER DISCHARGES:
   1. WASTEWATER FROM WASHOUT OF CONCRETE TRUCKS.
   2. WASTEWATER FROM WAS OUT AND CLEAN OUT OF STUCCO, PAINT, FORM RELEASE OILS, CUTTING COMPOUNDS, AND OTHER CONSTRUCTION MATERIALS.
   3. FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATIONS AND MAINTENANCE.
   4. SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING.

   NOTE: DO NOT USE TREATMENT CHEMICALS WITHOUT PRIOR WRITTEN CONSENT FROM COSA. A WRITTEN MANAGEMENT PLAN IS REQUIRED FOR USED OF TREATMENT CHEMICALS.

7. CONCRETE TRUCK WASH OUT:

   CONCRETE TRUCK WASH WATER DISCHARGES ON THE SITE SHOULD BE PROHIBITED OR MINIMIZED. IF ALLOWED BY THE ENGINEER, THEY MUST BE MANAGED IN A MANNER SO AS NOT TO CONTAMINATE SURFACE WATER. THEY MUST NOT BE LOCATED IN AREAS OF CONCENTRATED FLOW. CONCRETE TRUCK WASH OUT LOCATIONS MUST BE SHOWN ON THE SW3P LAYOUT AND INCLUDED IN THE INSPECTIONS. HAZARDOUS MATERIAL SPILL/LEAK SHALL BE PREVENTED OR MINIMIZED. AT A MINIMUM, THIS INCLUDES ASPHALT PRODUCTS, FUELS, OILS, LUBRICANTS, SOLVENTS, PAINTS, ACIDS, CONCRETE CURING COMPOUNDS, AND CHEMICAL ADDITIVES FOR SOIL STABILIZATION. BMP'S SHALL BE IMPLEMENTED TO THE STORAGE OF THESE PRODUCTS. ALL SPILLS MUST BE CLEANED AND DISPOSED PROPERLY AND REPORTED TO THE ENGINEER. REPORT ANY RELEASE AT OR ABOVE THE REPORTABLE QUANTITY DURING A 24 HOUR PERIOD TO THE NATIONAL RESPONSE CENTER AT 1-800-424-8802.

8. MATERIAL MANAGEMENT PRACTICES:

   CONTRACTOR MUST MAINTAIN AN INVENTORY OF CONSTRUCTION AND WASTE MATERIALS EXPECTED TO BE STORED ON-SITE AND A DESCRIPTION OF CONTROLS IMPLEMENTED TO MINIMIZE POLLUTANTS FROM THESE SOURCES.

9. COMPLIANCE WITH APPROVED STATE AND LOCAL PLANS:

   THIS SW3P SHALL CONFORM TO APPLICABLE LOCAL RULES AND REGULATIONS FROM WATER QUALITY, INCLUDING BUT NOT LIMITED TO THOSE ESTABLISHED BY COSA, SAWS, BEXAR COUNTY, EAA, OR OTHERS, ASS APPLICABLE.

OTHER REQUIREMENTS AND PRACTICES

1. MAINTENANCE:

   ALL EROSION AND SEDIMENT CONTROLS SHALL BE MAINTAINED IN GOOD WORKING ORDER. IF A REPAIR IS NECESSARY, IT SHALL BE PERFORMED BY CLOSE OF THE NEXT DAY FOLLOWING DISCOVERY. RECOMMENDATIONS FOR NEW BMP'S OR SIGNIFICANT REPAIRS TO EXISTING BMP'S MADE BY INSPECTORS OF THIS SWPPP OR BY THE EPA WILL BE INSTALLED WITHIN SEVEN (7) CALENDAR DAYS FROM THE DATE OF INSPECTION OR PRIOR TO THE NEXT RAIN EVENT, WHICHEVER IS SOONER. CORRECTIVE ACTIONS, SUCH AS TEMPORARY BMP'S SHALL BE IMMEDIATELY TAKEN IN THE EVENT THAT A DISCHARGE OF POLLUTANTS IS DISCOVERED TO MINIMIZED OR PREVENT FURTHER DISCHARGE UNTIL A PERMANENT SOLUTION IS INSTALLED. WHEN CORRECTIVE ACTIONS RESULT IN CHANGES TO STORMWATER CONTROLS OR PROCEDURES, AMEND THE SWPPP WITHIN SEVEN (7) CALENDAR DAYS OF COMPLETING THE CORRECTIVE ACTION WORK. EACH CORRECTIVE ACTION REPORT MUST BE SIGNED AND CERTIFIED BY THE AUTHORIZED SIGNATORY AUTHORITY. KEEP A CURRENT COPY OF ALL CORRECTIVE ACTION REPORTS AT THE SITE OR AT AN EASILY ACCESSIBLE LOCATION. MAINTAIN ALL CORRECTIVE ACTION REPORTS FOR AT LEAST THREE (3) YEARS FROM THE DATE THAT YOUR PERMIT COVERAGE EXPIRES OR IS TERMINATED. DISTURBED AREAS ON WHICH CONSTRUCTION ACTIVITIES HAVE CEASED, TEMPORARILY OR PERMANENTLY, SHALL BE STABILIZED WITHIN 14 CALENDAR DAYS UNLESS THEY ARE SCHEDULED TO AND DO RESUME WITHIN 21 CALENDAR DAYS. THE AREAS ADJACENT TO CREEKS AND DRAINAGE WAYS SHALL HAVE PRIORITY FOLLOWED BY PROTECTING STORM WATER INLETS.

2. INSPECTIONS:

   FOR AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED, AREAS USED FOR STORAGE OF MATERIALS, STRUCTURAL CONTROLS MEASURES, AND LOCATION WHERE VEHICLES ENTER OR EXIT THE SITE. PERSONNEL PROVIDED BY THE PERMITTEE AND FAMILIAR WITH THE SW3P MUST INSPECT DISTURBED AREAS AT LEAST ONCE EVERY 14 CALENDAR DAY AND WITHIN 24 HOURS OF A STORM OF 0.5 INCHES OR GREATER. THE SW3P MAY BE DEVELOPED TO REQUIRE THAT THESE INSPECTIONS WILL OCCUR AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS. IF THIS ALTERNATIVE SCHEDULE IS DEVELOPED, THE INSPECTION MUST OCCUR ON A SPECIALLY DEFINED DAY, REGARDLESS OF WHETHER OR NOT THERE HAS BEEN RAINFALL SINCE THE PREVIOUS INSPECTION. AN INSPECTION AND MAINTENANCE REPORT SHALL BE PREPARED FOR EACH INSPECTION AND THE CONTROLS SHALL BE REVISED ON THE SW3P WITHIN SEVEN (7) CALENDAR DAYS FOLLOWING THE INSPECTION. IF DISCHARGES OCCUR TO SEDIMENT OR NUTRIENT-IMPAIRED WATERS, OR TO OTHER SITES WITH IMPAIRMENT STATUS, INSPECTIONS MUST TAKE PLACE ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF A STORM EVENT OF 0.25 INCHES OR GREATER. INSPECTION REPORTS MUST BE COMPLETED WITHIN 24 HOURS OF COMPLETING ANY SITE INSPECTION. EACH INSPECTION MUST BE SIGNED BY AUTHORIZED SIGNATORY AUTHORITY.

3. WASTE MATERIALS:

   ALL NON-HAZARDOUS MUNICIPAL WASTE MATERIALS SUCH AS LITTER, RUBBISH, AND GARBAGE LOCATED ON OR ORIGINATING FROM THE PROJECT SHALL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER PROVIDED BY THE CONTRACTOR. THE DUMPSTER SHALL BE EMPTIED AS NECESSARY OR AS REQUIRED BY LOCAL REGULATION AND THE TRASH SHALL BE HAULED TO A PERMITTED DISPOSAL FACILITY. THE BURYING OF NON-HAZARDOUS MUNICIPAL WASTE ON THE PROJECT SHALL NOT BE PERMITTED. CONSTRUCTION MATERIAL WASTE SITES, STOCKPILES, AND HAUL ROADS SHALL BE CONSTRUCTED TO MINIMIZE AND CONTROL THE AMOUNT OF SEDIMENT THAT MAY ENTER RECEIVING WATERS. CONSTRUCTION MATERIALS WASTE SITES SHALL NOT BE LOCATED IN ANY WETLAND, WATER BODY, OR STREAM BED. CONSTRUCTION STAGING AREAS AND VEHICLE MAINTENANCE AREAS SHALL BE CONSTRUCTED IN A MANNER TO MINIMIZE THE RUNOFF OF POLLUTANTS.

4. OFFSITE VEHICLE TRACKING:

   OFFSITE VEHICLE TRACKING OF SEDIMENT AND THE GENERATION OF DUST MUST BE MINIMIZED. EXCESS SEDIMENTS ON ROAD SHALL BE REMOVED ON A REGULAR BASIS AS DIRECTED/APPROVED BY THE ENGINEER.

5. STAFF TRAINING REQUIREMENTS:

   OPERATOR STAFF MUST RECEIVE TRAINING PRIOR TO COMMENCEMENT OF EARTH DISTURBING OR POLLUTANT GENERATING ACTIVITIES, WHICHEVER COMES FIRST. OPERATORS ARE NOT REQUIRED TO PROVIDE OR DOCUMENT FORMAL TRAINING FOR SUBCONTRACTORS OR OTHER OUTSIDE SERVICE PROVIDERS, BUT THEY MUST ENSURE THAT SUCH PERSONNEL UNDERSTAND THE PERMIT REQUIREMENTS THAT MAY BE AFFECTED BY THEIR WORK.

6. SUPPORTING CONCRETE BATCH PLANTS:

   THE CONTRACTOR SHOULD DEVELOP A SEPARATE SW3P FOR OPERATIONS ASSOCIATED WITH A SUPPORTING CONCRETE BATCH PLANT IN CONFORMANCE WITH THE TCEQ TPDES CONSTRUCTION GENERAL PERMIT, PART IV RELATING TO STORMWATER RUNOFF FROM CONCRETE BATCH PLANTS. THIS SW3P DOES NOT PROVIDE ADEQUATE CONTROLS FOR THIS ACTIVITY.

7. SANITARY WASTE:

   PORT-A-POT AND HOLDING TANKS FROM TEMPORARY TRAILERS AND/OR CONSTRUCTION TRAILERS ARE TO BE PLACED OUTSIDE OF FLOODPLAIN AS DEFINED ON PLANS.

8. OFFSITE EXCAVATION SOURCE LOCATION:

   ALL EXCAVATION SOURCES TO BE LOCATED ON SITE.

9. OFFSITE FILL SOURCE LOCATION:

   ALL FILL SOURCE LOCATIONS TO REMAIN ON SITE.

10. OTHER:

    CERTIFICATION THAT SITE DISTURBANCE AND/OR DISCHARGES WILL NOT EFFECT LISTED ENDANGERED SPECIES AND THEIR HABITAT. WHAT METHOD IS USED TO SATISFY THE ENDANGERED SPECIES REQUIREMENTS.

SPILL PREVENTION AND RESPONSE PROCEDURES (CONTRACTOR TO COMPLETE)

1. IDENTIFY PROCEDURES FOR STOPPING, CONTAINING, AND CLEANING UP SPILLS, LEAKS AND OTHER RELEASE:

_____
_____
_____
_____
_____

2. IDENTIFY THE NAME OR POSITION OF THE PERSON RESPONSIBLE FOR DETECTION AND RESPONSE OF SPILLS AND LEAKS

_____
_____
_____
_____
_____

3. IDENTIFY PROCEDURES FOR NOTIFICATION OF APPROPRIATE FACILITY PERSONNEL, REGULATORY AGENCIES, ETC.

_____
_____
_____
_____
_____

BID DOCUMENTS

No.	Revisions	Date

CONSULTANT

MEP:	IRRIGATION:	LAND SURVEY:	COMISSIONING:	COST ESTIMATING:
IMEG CORP.	AQUA	ANDERSON ENGINEERING	ENVIROS	OCMI
14755 PRESTON RD STE 845	375 HORSETOOTH ROAD	13605 1ST AVE N STE 100	220 RAMSEY ST	3851 RESEARCH DR
DALLAS, TX 75254	FORT COLLINS, CO 80525	PLYMOUTH, MN 55441	HASTINGS MN, 55033	IRVINE, CA 92618
214-485-6433	970-372-6104	763-421-4000	651-319-6599	469-431-0571
MARIO ARREDONDO	ROBERT BECCARD	ERIC SAUTBINE	SCOTT SINCLAIR	KYLE VEATER

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: SWPPP NARRATIVE - 2

Phase: BID DOCUMENTS

Project Title: FORT SAM HOUSTON NATIONAL CEMETERY PHASE 3 EXPANSION & IMPROVEMENTS - ADDITIONAL ROAD REPAIRS

Project Number: 846CM2045

Building Number:

Approved: Project Director

Location: 1520 HARRY WURZBACH RD., SAN ANTONIO, TX 78209

Issue Date: 08/01/2025

Checked: ES

Drawn: JD

Drawing Number: CE102

Dwg. 13 of 17

VA FORM 08 - 6231

File Path: y:\166001\60445 fort sam houston nc cpd_14 cps phase_08 manhole & road repair_03 civil_01 cad files_01 sheets\15274_ce_narrative_cps.dwg | edit:jdobias | saved:8/19/2025 10:46 AM | published:ethan ring | printed:4/28/2026 2:51 PM

I. STORMWATER POLLUTION PREVENTION - CLEAN WATER ACT SECTION 402

TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM (TPDES) TXR 150000: STORMWATER DISCHARGE PERMIT OR CONSTRUCTION GENERAL PERMIT (CGP) REQUIRED FOR PROJECTS WITH 1 OR MORE ACRES DISTURBED SOIL. PROJECT WITH ANY DISTURBED SOIL MUST PROTECT FOR EROSION AND SEDIMENTATION IN ACCORDANCE WITH ITEM 540.

☐ NO ACTION REQUIRED ☒ REQUIRED ACTION

ACTION NO.

1. PREVENT STORMWATER POLLUTION BY CONTROLLING EROSION AND SEDIMENTATION IN ACCORDANCE WITH TPDES PERMIT TXR 150000.
2. COMPLY WITH THE STORMWATER POLLUTION PREVENTION PLAN (SW3P) AND REVISE WHEN NECESSARY TO CONTROL POLLUTION OR REQUIRED BY THE ENGINEER.
3. POST CONSTRUCTION SITE NOTICE (CSN) WITH SW3P INFORMATION ON OR NEAR THE SITE, ACCESSIBLE TO THE PUBLIC AND TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ), ENVIRONMENTAL PROTECTION AGENCY (EPA) OR OTHER INSPECTORS.
4. WHEN CONTRACTOR PROJECT SPECIFIC LOCATIONS (PSL'S) INCREASE DISTURBED SOIL AREA TO 5 ACRES OR MORE, CONTRACTOR SHALL SUBMIT NOTICE OF INTENT (NOI) TO TCEQ AND THE ENGINEER.
5. NOI REQUIRED:

☐ YES ☒ NO

NOTE: IF AMOUNT OF SOIL DISTURBANCE CHANGES, PERMIT REQUIREMENTS MAY CHANGE.

II. WORK IN OR NEAR STREAMS, WATERBODIES AND WETLAND CLEAN WATER ACT SECTION 401 AND 404

US ARMY CORPS OF ENGINEERS (USACE) PERMIT REQUIRED FOR FILLING, DREDGING, EXCAVATING OR OTHER WORK IN POTENTIAL USACE JURISDICTIONAL WATER, SUCH AS, RIVERS, CREEKS, STREAMS, OR WETLANDS.

CONTRACTOR SHALL ADHERE TO ALL OF THE TERMS AND CONDITION ASSOCIATED WITH THE FOLLOWING PERMIT(S):

☐ NO PERMIT REQUIRED
☐ NATIONWIDE PERMIT (NWP) 14 - PRE-CONSTRUCTION NOTICE (PCN) NOT REQUIRED
☒ NATIONWIDE PERMIT 14 - PCN REQUIRED
☐ INDIVIDUAL 404 PERMIT REQUIRED
☐ OTHER NATIONWIDE PERMIT REQUIRED: NWP # _____

REQUIRED ACTIONS: LIST WATER OF THE US PERMIT APPLIES TO, LOCATION IN PROJECT AND CHECK BEST MANAGEMENT PRACTICES (BMP'S) PLANNED TO CONTROL EROSION, SEDIMENTATION AND POST-PROJECT TOTAL SUSPENDED SOLIDS (TSS).

1.
2.
3.
4.
5.

401 BEST MANAGEMENT PRACTICES: (NOT APPLICABLE IF NO USACE PERMIT)

EROSION	SEDIMENTATION	POST-CONSTRUCTION TSS
☐ TEMPORARY VEGETATION	☐ SILT FENCE	☐ VEGETATIVE FILTER STRIPS
☐ BLANKETS/MATTING	☐ ROCK BERM	☐ RETENTION/IRRIGATION SYSTEMS
☐ MULCH	☐ TRIANGULAR FILTER DIKE	☐ EXTENDED DETENTION BASIN
☐ SODDING	☐ SAND BAG BERM	☐ CONSTRUCTED WETLANDS
☐ INTERCEPTOR SWALE	☐ STRAW BALE DIKE	☐ WET BASIN
☐ DIVERSION DIKE	☐ BRUSH BERMS	☐ EROSION CONTROL COMPOST
☐ EROSION CONTROL COMPOST	☐ EROSION CONTROL COMPOST	☐ MULCH FILTER BERM AND SOCKS
☐ MULCH FILTER BERM AND SOCKS	☐ MULCH FILTER BERM AND SOCKS	☐ COMPOST FILTER BERM AND SOCKS
☐ COMPOST FILTER BERM AND SOCKS	☐ COMPOST FILTER BERM AND SOCKS	☐ VEGETATION LINED DITCHES
	☐ STONE OUTLET SEDIMENT TRAPS	☐ SAND FILTER SYSTEMS
	☐ SEDIMENT BASINS	☐ SEDIMENTATION CHAMBERS
		☐ GRASSY SWALES

III. CULTURAL RESOURCES

CULTURAL RESOURCES FALL UNDER THE ANTIQUITIES CODE OF TEXAS AND/OR THE NATIONAL HISTORIC PRESERVATION ACT, AS AMENDED IN 1966. IF A PREVIOUSLY UNIDENTIFIED ARCHEOLOGICAL SITE IS ENCOUNTERED DURING CONSTRUCTION WORK, ACTIVITIES SHOULD BE IMMEDIATELY STOPPED IN THE VICINITY AND THE CITY ARCHEOLOGIST (210-207-7303) NOTIFIED AND/OR THE SHPO.

☐ NO ACTION REQUIRED ☐ REQUIRED ACTION

ACTION NO.

1. TEXAS HISTORICAL COMMISSION (SHPO) HAS REQUESTED A HISTORICAL MONITOR TO OBSERVE GROUND DISTURBING ACTIVITIES.
2.
3.
4.
5.

IV. VEGETATION RESOURCES

PRESERVE NATIVE VEGETATION TO THE EXTENT PRACTICAL. CONTRACTOR MUST ADHERE TO CONSTRUCTION SPECIFICATION REQUIREMENTS IN ORDER TO COMPLY WITH REQUIREMENTS FOR INVASIVE SPECIES, BENEFICIAL LANDSCAPING, AND TREE/BRUSH REMOVAL COMMITMENTS.

☐ NO ACTION REQUIRED ☐ REQUIRED ACTION

ACTION NO.

1. ENSURE THAT A TREE PERMIT IS IN PLACE FOR AREAS NOT LOCATED ON CEMETERY PROPERTY, IF REQUIRED.
2. FOLLOW TREE PRESERVATION/MITIGATION PLAN PROVIDED IN THE DESIGN PLAN SET.
3. CONTACT THE CITY ARBORIST AT 207-0278 BEFORE ANY WORK BEGINS.
4.

V. FEDERAL LISTED, PROPOSED THREATENED, ENDANGERED SPECIES, CRITICAL HABITAT, STATE LISTED SPECIES, CANDIDATE SPECIES, AND MIGRATORY BIRDS.

☐ NO ACTION REQUIRED ☒ REQUIRED ACTION

ACTION NO.

1. MIGRATORY BIRD NESTS: SCHEDULE CONSTRUCTION ACTIVITIES AS NEEDED TO MEET THE FOLLOWING REQUIREMENTS:
   A. DO NOT REMOVE OR DESTROY ANY ACTIVE MIGRATORY BIRD NESTS (NESTS CONTAINING EGGS AND/OR FLIGHTLESS BIRDS) AT ANY TIME OF YEAR. IF THERE ARE ANY ACTIVE NESTS, THEY SHALL NOT BE REMOVED UNTIL THE NESTS BECOME INACTIVE.
   B. ON/IN STRUCTURES, IF THERE ARE ANY ACTIVE NESTS, THEY SHALL NOT BE REMOVED UNTIL ALL NESTS BECOME INACTIVE. AFTER INACTIVE NESTS ARE REMOVED AND/OR BEFORE NEST ACTIVITY BEGINS, DETERRENT MATERIALS MAY BE APPLIED TO THE STRUCTURES TO PREVENT FUTURE NEST BUILDING.
2. DETERRENT MATERIAL SHOULD BE PLACED (AND MAINTAINED) AFTER OCTOBER 1 OR BEFORE FEBRUARY 15.
3. THE PREFERRED NESTING SEASON FOR MIGRATORY BIRDS IS FROM FEBRUARY 15 THROUGH OCTOBER 1. WHEN PRACTICABLE, SCHEDULE CONSTRUCTION OPERATION OUTSIDE OF THE PREFERRED NESTING SEASON.

IF ANY OF THE LISTED SPECIES ARE OBSERVED, CEASE WORK IN THE IMMEDIATE AREA, DO NOT DISTURB SPECIES OR HABITAT. THE WORK MAY NOT REMOVE ACTIVE NESTS FROM BRIDGES AND OTHER STRUCTURES DURING NESTING SEASON OF THE BIRDS ASSOCIATED WITH THE NESTS. IF CAVES OR SINKHOLES ARE DISCOVERED, CEASE WORK IN THE IMMEDIATE AREA.

VI. HAZARDOUS MATERIALS OR CONTAMINATION ISSUES

GENERAL (APPLIES TO ALL PROJECTS):
COMPLY WITH THE HAZARD COMMUNICATION ACT (THE ACT) FOR PERSONNEL WHO WILL BE WORKING WITH HAZARDOUS MATERIALS BY CONDUCTING SAFETY MEETINGS PRIOR TO BEGINNING CONSTRUCTION AND MAKING WORKERS AWARE OF POTENTIAL HAZARDS IN THE WORKPLACE. ENSURE THAT ALL WORKERS ARE PROVIDED WITH PERSONAL PROTECTIVE EQUIPMENT APPROPRIATE FOR ANY HAZARDOUS MATERIALS USED. OBTAIN AND KEEP ON-SIDE MATERIAL SAFETY DATA SHEETS (MSDS) FOR ALL HAZARDOUS PRODUCTS USED ON THE PROJECT, WHICH MAY INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING CATEGORIES: PAINTS, ACIDS, SOLVENTS, ASPHALT PRODUCTS, CHEMICAL ADDITIVES, FUELS AND CONCRETE CURING COMPOUNDS OR ADDITIVES. PROVIDE PROTECTED STORAGE, OFF BARE GROUND AND COVERED, FOR PRODUCTS WHICH MAY BE HAZARDOUS. MAINTAIN PRODUCT LABELING AS REQUIRED BY THE ACT. MAINTAIN AN ADEQUATE SUPPLY OF ON-SITE SPILL RESPONSE MATERIALS, AS INDICATED IN THE MSDS. IN THE EVENT OF A SPILL, TAKE ACTIONS TO MITIGATE THE SPILL AS INDICATED IN THE MSDS, IN ACCORDANCE WITH SAFE WORK PRACTICES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER CONTAINMENT AND CLEANUP OF ALL PRODUCT SPILLS.

HAZARDOUS MATERIALS OR CONTAMINATION ISSUES SPECIFIC TO THIS PROJECT:

☒ NO ACTION REQUIRED ☐ REQUIRED ACTION

ACTION NO.

1. FOLLOW MEDICAL WASTE REMOVAL PLAN FOR ENCOUNTERED BURIED MEDICAL WASTE. TESTING TO DATE HAS CONCLUDED BURIED MEDICAL WASTE AS NON-HAZARDOUS CLASS 1 & NON-HAZARDOUS CLASS 2 WASTE.
2.
3.
4.
5.

DOES THE PROJECT INVOLVE THE DEMOLITION OF A SPAN BRIDGE?

☐ YES ☒ NO (NO FURTHER ACTION REQUIRED)

IF "YES", A PRE-DEMOLITION NOTIFICATION MUST BE SUBMITTED TO THE TEXAS DEPARTMENT OF STATE HEALTH SERVICES. THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER 25 CALENDAR DAYS PRIOR TO THE DEMOLITION OF THE BRIDGES ON THE PROJECT TO ASSIST WITH THE NOTIFICATION.

VII. OTHER ENVIRONMENTAL ISSUES

(INCLUDES REGIONAL ISSUES)

☐ NO ACTION REQUIRED REQUIRED ACTION

ACTION NO.

1.
2.
3.
4.
5.

BID DOCUMENTS

No.	Revisions	Date

CONSULTANT

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: EPIC - ENVIRONMENTAL PERMITS, ISSUES, AND COMMITMENTS

Approved: Project Director

Phase: BID DOCUMENTS

Project Title: FORT SAM HOUSTON NATIONAL CEMETERY PHASE 3 EXPANSION & IMPROVEMENTS - ADDITIONAL ROAD REPAIRS

Location: 1520 HARRY WURZBACH RD., SAN ANTONIO, TX 78209

Issue Date: 08/01/2025 | Checked: ES | Drawn: JD

Project Number: 846CM2045

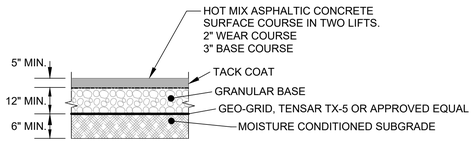
Building Number:

Drawing Number: CE103

Dwg. 14 of 17

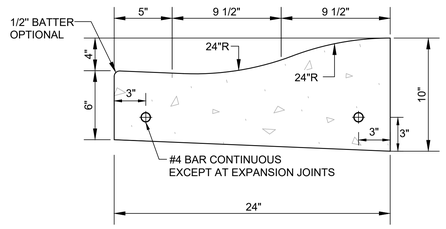
VA FORM 08 - 6231

File Path: y:\166001\6045 fort sam houston rc cpd_14 cps phase4_08 manhole & road repair_03 civil_01 cad files_01 sheets\15274_ce_narrative_cps.dwg | edit:pdodas | saved:8/19/2025 10:46 AM | published:ethan ring | printed:4/28/2026 2:51 PM



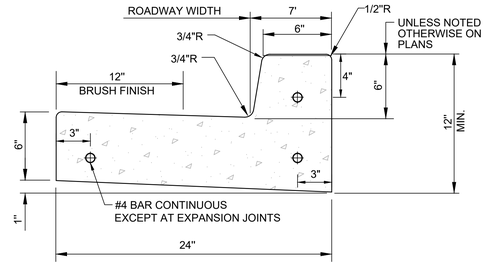
NOTES:
1. GEOTECHNICAL REPORT ALLOWS FOR ALTERNATE PAVEMENT SECTIONS. CONTRACTOR TO SUBMIT ANY ALTERNATIVE PAVEMENT SECTIONS FOR APPROVAL.
2. FOLLOW GEOTECHNICAL REPORT ON RECOMMENDATIONS, TESTING, AND CONSTRUCTION PARAMETERS.
3. CONTRACTOR IS RESPONSIBLE FOR MOISTURE CONTROL OF THE SUBGRADE AND SUBBASE. CONTRACTOR SHALL CONSTRUCT THE NEXT STEP WITHIN 48HRS OF A PASSING TEST. IF THE CONDITIONS CHANGE AFTER A TEST IS APPROVED THE TEST NEEDS TO BE RERUN.
4. ASPHALT PAVEMENT SECTION USED FOR SAN ANTONIO BLVD.

1 ASPHALT PAVEMENT
SCALE:N.T.S.



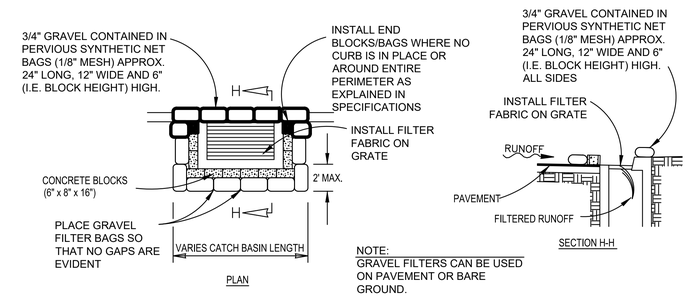
NOTES:
1. ALL VERTICAL SURFACES TO BE FORMED.
2. MAXIMUM SPACING OF CONTRACTION JOINTS IS 15'.
3. MAXIMUM SPACING OF EXPANSION JOINTS IS 50'.
4. EXPANSION JOINTS AT ALL RADIUS POINTS, ALLEY ENTRANCES, AND ADJOINING STRUCTURES.
5. ALL CONCRETE CURBS, AND TRANSITIONS, SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 P.S.I. AND BE CLASS "B" CONCRETE.
6. MOUNTABLE ROLL CURB TRANSITION TO VERTICAL CURB SHALL TRANSITION IN 5 L.F. RUN, MIN.

2 MOUNTABLE ROLL CURB AND GUTTER
SCALE:N.T.S.

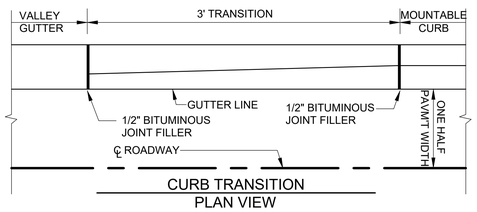


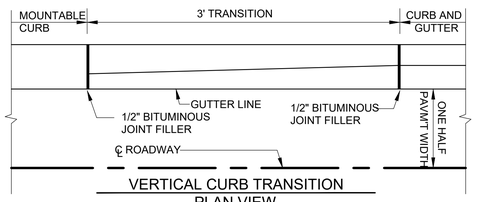
NOTES:
1. ALL VERTICAL SURFACES TO BE FORMED.
2. MAXIMUM SPACING OF CONTRACTION JOINTS IS 10'.
3. MAXIMUM SPACING OF EXPANSION JOINTS IS 50'.
4. EXPANSION JOINTS AT ALL RADIUS POINTS, ALLEY ENTRANCES, AND ADJOINING STRUCTURES.
5. ALL CONCRETE CURBS, AND TRANSITIONS, SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 P.S.I. AND BE CLASS "B" CONCRETE.
6. VERTICAL CURB TRANSITION TO ROLL CURB SHALL TRANSITION IN 3 L.F. RUN, MIN.

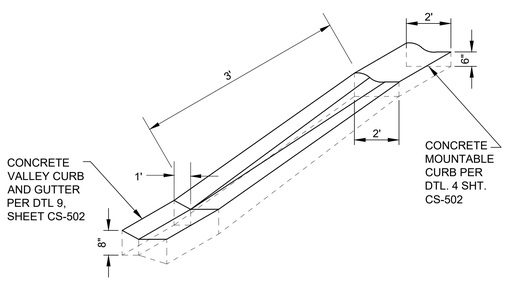
3 VERTICAL CURB AND GUTTER
SCALE:N.T.S.



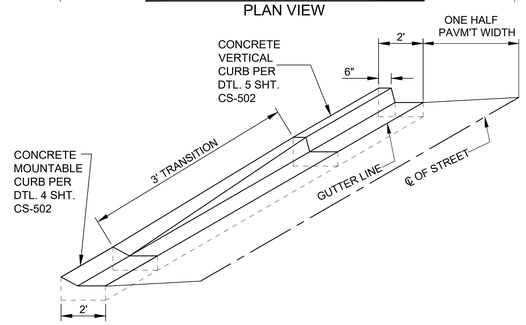
4 CATCH BASIN INLET PROTECTION
SCALE:N.T.S.







5 CONCRETE CURB TRANSITION MOUNTABLE CURB TO VALLEY GUTTER
SCALE:N.T.S.



6 CONCRETE CURB TRANSITION VERTICAL CURB TO VALLEY GUTTER
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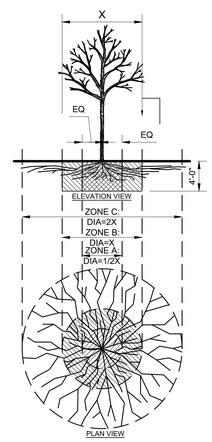


FENCING/ROOT PROTECTION
6' HIGH CHAIN LINK FENCING SHALL BE PROVIDED AND MAINTANED AT THE DRIPLINE OF EACH TREE OR AROUND A GROUP OF TREES AT THE DRIPLINE OF OUTSIDE TREES.

THE ENGINEER'S APPROVAL IS REQUIRED FOR USE/ACCESS WITHIN ZONE B. PERMISSION FOR USE/ACCESS REQUIRES SURFACE PROTECTION FOR ALL UNFENCED, UNPAVED SURFACES WITHIN ZONE B AT ALL TIMES.

* SURFACE PROTECTION MEASURES
1. MULCH LAYER, @ 6"-8"DEPTH
2. 3/4" PLYWOOD
3. STEEL PLATES

TRENCHING / EXCAVATION

ZONE A (CRITICAL ROOT ZONE)
[DEFINED AS DRIPLINE DIAMETER MULTIPLIED BY 0.5]

1. NO DISTURBANCE ALLOWED WITHOUT SITE-SPECIFIC INSPECTION AND APPROVAL OF METHODS TO MINIMIZE ROOT DAMAGE
2. SEVERANCE OF ROOTS LARGER THAN 2 INCHES IN DIAMETER REQUIRES AN ENGINEER'S APPROVAL
3. TUNNELLING REQUIRED TO INSTALL LINES 3 FEET BELOW GRADE OR DEEPER

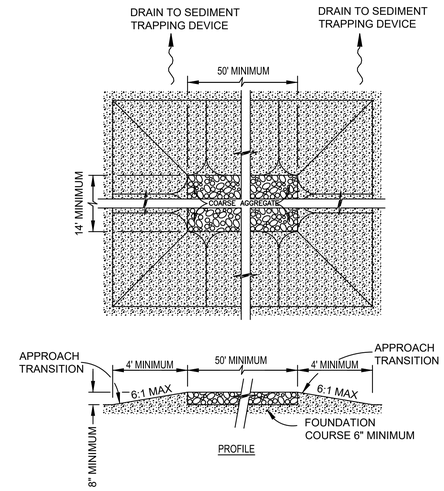
ZONE B (DRIPLINE (DEFINE))
[MAXIMUM WIDTH OF BRANCH EXTENSION ON TREE]

1. OPERATION OF HEAVY EQUIPMENT AND/OR STOCKPILING OF MATERIALS SUBJECT TO (SPECIFY INDIVIDUAL) APPROVAL
2. SURFACE PROTECTION MEASURES REQUIRED
   TRENCHING ALLOWED AS FOLLOWS:
   - EXCAVATION BY HAND OR WITH HAND-DRIVEN TRENCHER MAY BE REQUIRED
   - LIMIT TRENCH WIDTH. DO NOT DISTURB ZONE A (CRITICAL ROOT ZONE) MAINTAIN 2/3 OR MORE OF ZONE B (DRIPLINE) IN UNDISTURBED CONDITION
3. TUNNELLING MAY BE REQUIRED FOR TRENCHES DEEPER THAN 3 FOOT
4. USE OF PNEUMATIC AIR WAND AND EXCAVATION MAY BE CONSIDERED WHERE THE TRENCH DEPTH DOES NOT EXCEED 4 FEET

ZONE C (ABSORBING ROOT ZONE)
[DEFINED AS DRIPLINE DIAMETER MULTIPLIED BY 2.0]

1. OPERATION OF HEAVY EQUIPMENT AND OR STOCKPILING OF MATERIALS SUBJECT TO (SPECIFY INDIVIDUAL) APPROVAL
2. SURFACE PROTECTION MEASURES MAY BE REQUIRED AND IS TO BE DETERMINED BY (SPECIFY INDIVIDUAL)
   TRENCHING WITH HEAVY EQUIPMENT ALLOWED AS FOLLOWS:
   - MINIMIZE TRENCH WIDTH
   - MAINTAIN 2/3 OR MORE OF ZONE C IN UNDISTURBED CONDITION
   - OR AS SPECIFIED BY (SPECIFY INDIVIDUAL)

7 TREE PROTECTION DETAIL
SCALE:N.T.S.

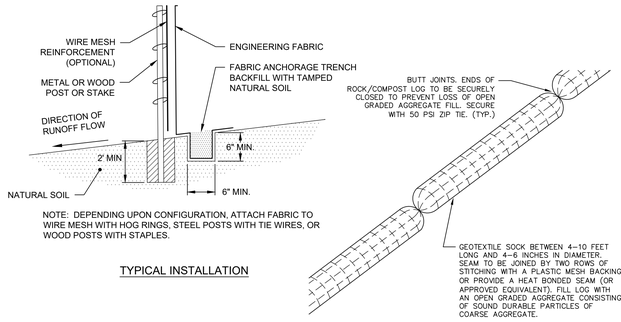


GENERAL NOTES
1. THE LENGTH OF THE TYPE 1 CONSTRUCTION EXIT SHALL BE AS INDICATED ON THE PLANS, BUT NOT LESS THAN 50'.
2. THE COARSE AGGREGATE SHOULD BE OPEN GRADED WITH A SIZE OF 4" TO 8".
3. THE APPROACH TRANSITIONS SHOULD BE NO STEEPER THAN 6:1 AND CONSTRUCTED AS DIRECTED BY THE ENGINEER.
4. THE CONSTRUCTION EXIT FOUNDATION COURSE SHALL BE FLEXIBLE BASE, BITUMINOUS CONCRETE, PORTLAND CEMENT CONCRETE OR OTHER MATERIAL AS APPROVED BY THE ENGINEER.
5. THE CONSTRUCTION EXIT SHALL BE GRADED TO ALLOW DRAINAGE TO A SEDIMENT TRAPPING DEVICE.
6. THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.

8 CONSTRUCTION EXIT DETAIL
SCALE:N.T.S.

9 NA
SCALE:N.T.S.

10 N/A
SCALE:NT.S.



11 SILT FENCE & ROCK/COMPOST BIO-ROLL DETAIL
SCALE:N.T.S.

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Anderson Engineering of Minnesota, LLC | Proj # 15274

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Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title: SITE DETAILS
Phase: BID DOCUMENTS
Project Title: FORT SAM HOUSTON NATIONAL CEMETERY PHASE 3 EXPANSION & IMPROVEMENTS - ADDITIONAL ROAD REPAIRS
Project Number: 846CM2045
Building Number:
Approved: Project Director
Location: 1520 HARRY WURZBACH RD., SAN ANTONIO, TX 78209
Issue Date: 08/01/2025
Checked: ES
Drawn: JD
Drawing Number: CS501
Dwg. 15 of 17

VA FORM 08 - 6231

File Path: y:\16600\16645 fort sam houston nc cpd_14 cps phase_03 manhole & road repair_03 civil_01 cad files_01 sheets\15274_cs_details_cps.dwg | edit:eimg | saved:4/29/2026 2:32 PM | published:ethan.ring | printed:4/29/2026 2:51 PM

LEGEND

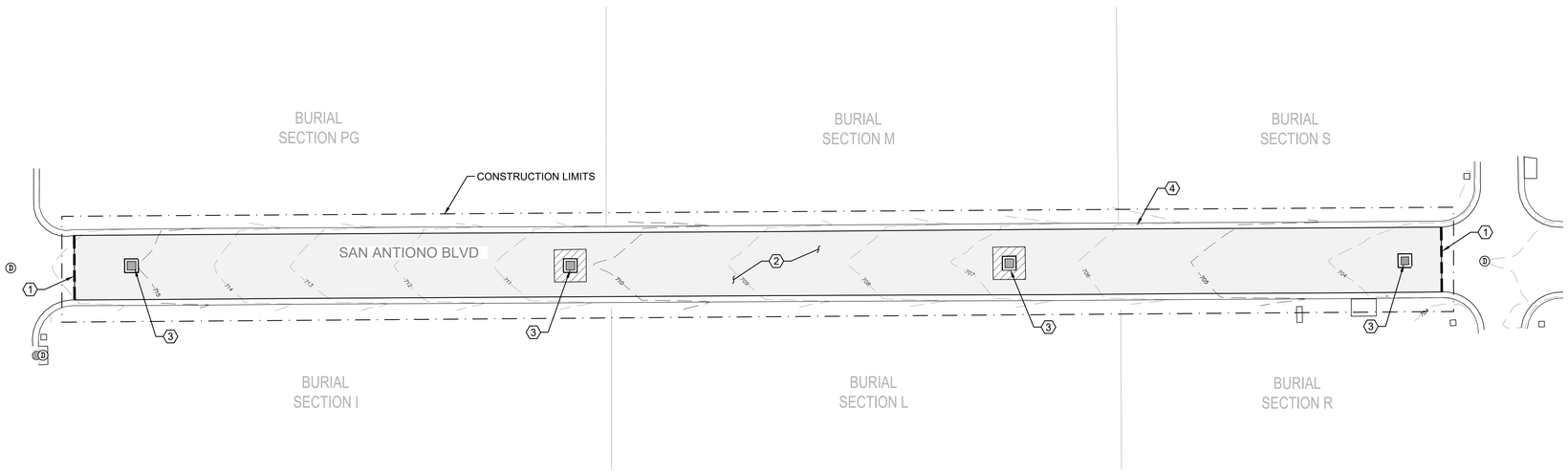
- PROPERTY LIMITS
- CONSTRUCTION LIMITS
- EXISTING HYDRANT AND GV
- EXISTING SANITARY MANHOLE
- EXISTING STORM SEWER INLET
- REMOVE EXISTING ASPHALT PAVEMENT
- REMOVE EXISTING CONCRETE PAVEMENT
- REMOVE EXISTING CURB & GUTTER
- SAWCUT LINE

KEYNOTES

1. FULL DEPTH SAWCUT PERPENDICULAR TO TRAFFIC.
2. REMOVE EXISTING ASPHALT PAVEMENT & SUBBASE TO DEPTH OF NEW PAVEMENT SECTION.
3. PROTECT EXISTING STORM SEWER STRUCTURE.
4. PROTECT EXISTING CURB & GUTTER.
5. REMOVE EXISTING CURB & GUTTER.

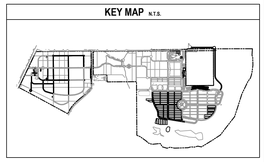
GENERAL NOTES

1. CONTRACTOR SHALL PROTECT ALL CONSTRUCTION AREAS FROM THE PUBLIC.
2. CONTRACTOR TO FENCE OFF ALL CONSTRUCTION AREAS WITH 7 FT HIGH FENCE. FABRIC SHALL BE USED ON FENCE AS A VISUAL BARRIER IN ALL PUBLIC AREAS. FENCING TO BE APPROVED BY R.E.
3. MAINTAIN PROPER STORMWATER DRAINAGE THROUGHOUT CONSTRUCTION.
4. CONTRACTOR TO FIELD VERIFY UTILITIES PRIOR TO WORK.
5. TRAFFIC CONTROL SIGNAGE & DETOUR SIGNS RESPONSIBILITY OF CONTRACTOR.



1 DEMOLITION PLAN - SAN ANTIONO BLVD
SCALE: 1" = 20'

KEY MAP N.T.S.



BID OPTION 1

BID DOCUMENTS

No.	Revisions	Date

CONSULTANT

MEP:	IRRIGATION:	LAND SURVEY:	COMISSIONING:	COST ESTIMATING:
IMEG CORP.	AQUA	ANDERSON ENGINEERING	ENVIROS	OCMI
14755 PRESTON RD STE 845	375 HORSETOOTH ROAD	13605 1ST AVE N STE 100	220 RAMSEY ST	3851 RESEARCH DR
DALLAS, TX 75254	FORT COLLINS, CO 80525	PLYMOUTH, MN 55441	HASTINGS MN, 55033	IRVINE, CA 92618
214-485-6433	970-372-6104	763-421-4000	651-319-6599	469-431-0571
MARIO ARREDONDO	ROBERT BECCARD	ERIC SAUTBINE	SCOTT SINCLAIR	KYLE VEATER

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Drawing Title: DEMOLITION PLAN - SAN ANTONIO BLVD

Phase: BID DOCUMENTS

Approved: Project Director

Project Title: FORT SAM HOUSTON NATIONAL CEMETERY PHASE 3 EXPANSION & IMPROVEMENTS - ADDITIONAL ROAD REPAIRS

Location: 1520 HARRY WURZBACH RD., SAN ANTONIO, TX 78209

Issue Date: 08/01/2025 | Checked: ES | Drawn: JD

Project Number: 846CM2045

Building Number:

Drawing Number: CD101

Dwg. 16 of 17

VA FORM 08 - 6231

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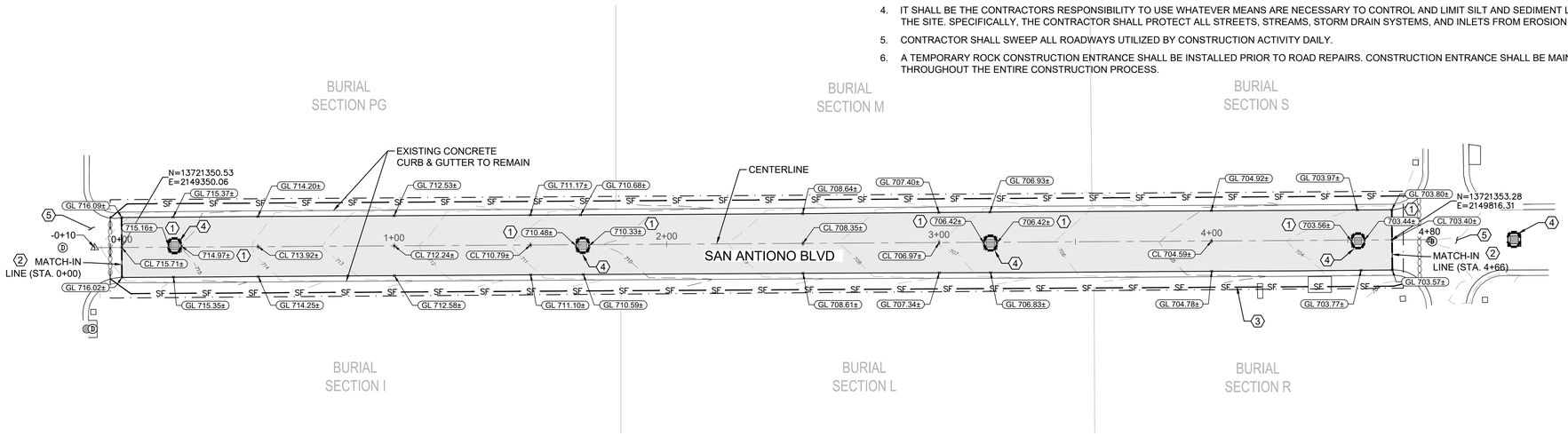
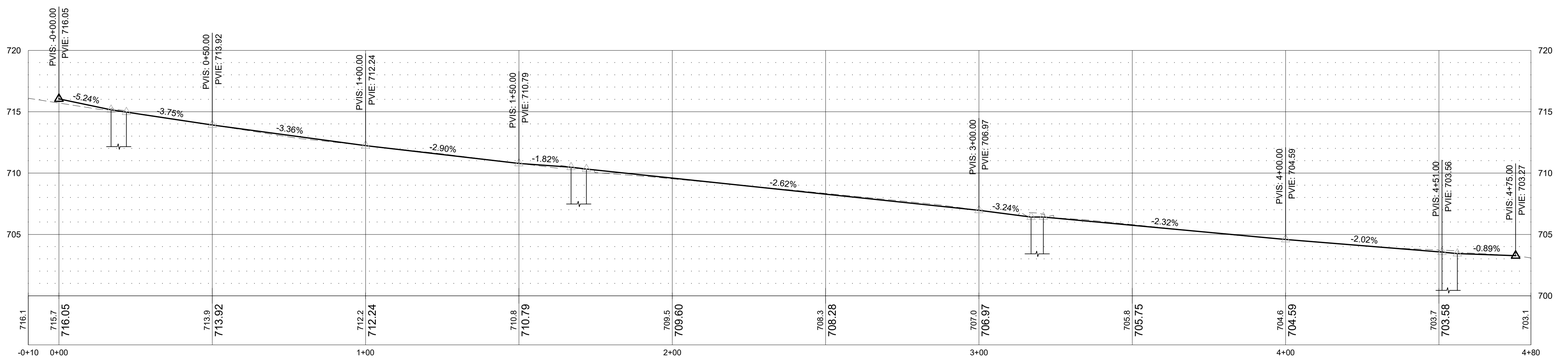
EROSION CONTROL NOTES

1. THE TOTAL DISTURBED AREA IS EQUAL TO 1.14 ACRES. A TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM (TPDES) TXR150000: STORM WATER DISCHARGE PERMIT OR CONSTRUCTION GENERAL PERMIT (CGP) IS REQUIRED SINCE THE PROJECT HAS MORE THAN ONE ACRE OF DISTURBED SOIL. GENERAL EROSION & SEDIMENT CONTROL PRACTICES MUST BE IMPLEMENTED TO CONTAIN ANY DISTURBED SOILS.
2. THE LOCATION OF EROSION CONTROL DEVICES SHALL BE AS SHOWN ON THESE PLANS. ADDITIONAL EROSION CONTROL MEASURES AND/OR ADJUSTMENT OF LOCATIONS FOR EROSION CONTROL MEASURES MAY OCCUR AT SRE DIRECTION, OR AS REQUIRED TO ADDRESS SITE CONDITIONS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL EROSION CONTROL DEVICES. CONTRACTOR SHALL REMOVE AND REPLACE EROSION CONTROL MEASURES AS NEEDED. ALL EROSION CONTROL MEASURES MUST BE IN PLACE AT THE END OF EACH DAY.
4. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO USE WHATEVER MEANS ARE NECESSARY TO CONTROL AND LIMIT SILT AND SEDIMENT LEAVING THE SITE. SPECIFICALLY, THE CONTRACTOR SHALL PROTECT ALL STREETS, STREAMS, STORM DRAIN SYSTEMS, AND INLETS FROM EROSION DEPOSITS.
5. CONTRACTOR SHALL SWEEP ALL ROADWAYS UTILIZED BY CONSTRUCTION ACTIVITY DAILY.
6. A TEMPORARY ROCK CONSTRUCTION ENTRANCE SHALL BE INSTALLED PRIOR TO ROAD REPAIRS. CONSTRUCTION ENTRANCE SHALL BE MAINTAINED THROUGHOUT THE ENTIRE CONSTRUCTION PROCESS.



1 PLAN VIEW SAN ANTIONO BLVD STA. -0+10 - 4+80
SCALE: 1" = 20'



2 PROFILE VIEW SAN ANTIONO BLVD STA. -0+10 - 4+80
SCALE: HORIZONTAL 1" = 20' VERTICAL 1" = 5'

N

0 20' 40'

LEGEND

- PROPERTY LIMITS
- CONSTRUCTION LIMITS
- 966 EXISTING MINOR CONTOUR
- 965 EXISTING MAJOR CONTOUR
- NEW ASPHALT PAVEMENT
- BIOROLL
- SF SILT FENCE
- INLET SEDIMENT PROTECTION

KEY NOTES

1. MATCH EXISTING GRADE AT EXISTING STORM SEWER STRUCTURE. (TYP.)
2. MATCH-IN LINE IS SHOWN IN APPROXIMATE LOCATION. ACTUAL LOCATION MAY VARY UPON FIELD VERIFICATION AND OWNER COORDINATION.
3. INSTALL & MAINTAIN SILT FENCE PERIMETER SEDIMENT PROTECTION IN GRASSED AREAS. USE BIO-ROLLS IN PAVED AREAS.
4. INSTALL & MAINTAIN INLET SEDIMENT PROTECTION.
5. INSPECT STREET FOR SEDIMENT TRACKING DAILY

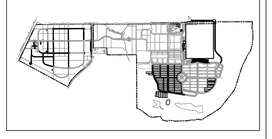
GENERAL NOTES

1. MAINTAIN 2.0% MINIMUM CROSS SLOPE FROM GUTTER LINE TO ROAD CENTERLINE FOR PROPER DRAINAGE.
2. PROTECT EXISTING STORM SEWER STRUCTURES IN ROADWAY.
3. CONFIRM LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION OR CONNECTION.
4. MATCH-IN LOCATIONS AND PROJECT LIMITS SHOWN ARE APPROXIMATE. ACTUAL PROJECT LIMITS MUST BE VERIFIED BY CONTRACTOR. NOTIFY RE IMMEDIATELY IN THE EVENT OF DISCREPANCY.
5. NEW ROADWAY WIDTHS & CURB RADII, SHALL MATCH EXISTING CONDITIONS.
6. INSTALL EXPANSION JOINT MATERIAL AROUND CONCRETE STRUCTURES.
7. ASPHALT PAVEMENT SECTION PER DETAIL ON SHEET CS501
8. FOLLOW GEOTECHNICAL REPORT FOR SUBGRADE PREPARATION & TESTING.
9. ALL PAVEMENT SHALL DRAIN TO EXISTING CATCH BASINS. NO PONDING OR POOLING OF WATER WILL BE ACCEPTABLE.
10. ALL EXPANSION JOINTS WILL HAVE #3 BAR DOWELS SPACED AT 16-INCHES ON CENTER. ONE END SHALL SLIP. SEE DETAIL 2/CS-502 FROM ORIGINAL CONTRACT DRAWINGS WITH THE ADDITIONAL OF #3 BAR DOWELS.
11. EXPANSION JOINTS SPACED AT 100FT (MAX.). CONTRACTION JOINTS SPACED AT 15FT (MAX.). FOLLOW DETAIL 1&2/CS502 FROM ORIGINAL CONTRACT DRAWINGS. ADDITIONAL EXPANSION JOINTS WILL BE NECESSARY FOR THE CONCRETE STRUCTURES. FIELD VERIFY LOCATION WITH SRE.
12. SUBMIT JOINTING PLAN TO SRE FOR APPROVAL. INCLUDE DIMENSIONS FOR SPACING AND DIFFERENT DESIGNATIONS FOR CONTROL JOINTS AND EXPANSION JOINTS.
13. ALL DAMAGED TURF ALONG THE BACK OF CURB SHALL BE REPLACED BY THE CONTRACTOR WITH SOD. CONTRACTOR TO WATER SOD UNTIL ACCEPTABLE ESTABLISHMENT.

SPOT ELEVATION KEY

+/-	MATCH EXISTING GRADE
GL	GUTTER LINE/EDGE OF NEW CONCRETE PAVEMENT
CL	CENTERLINE/CROWN OF ROAD ELEVATION

KEY MAP N.T.S.



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