

FORT BLISS, TEXAS

MARSHALL ROADWAY IMPROVEMENTS

FROM PIKE RD. TO CASSIDY RD.

INDEX OF DRAWINGS

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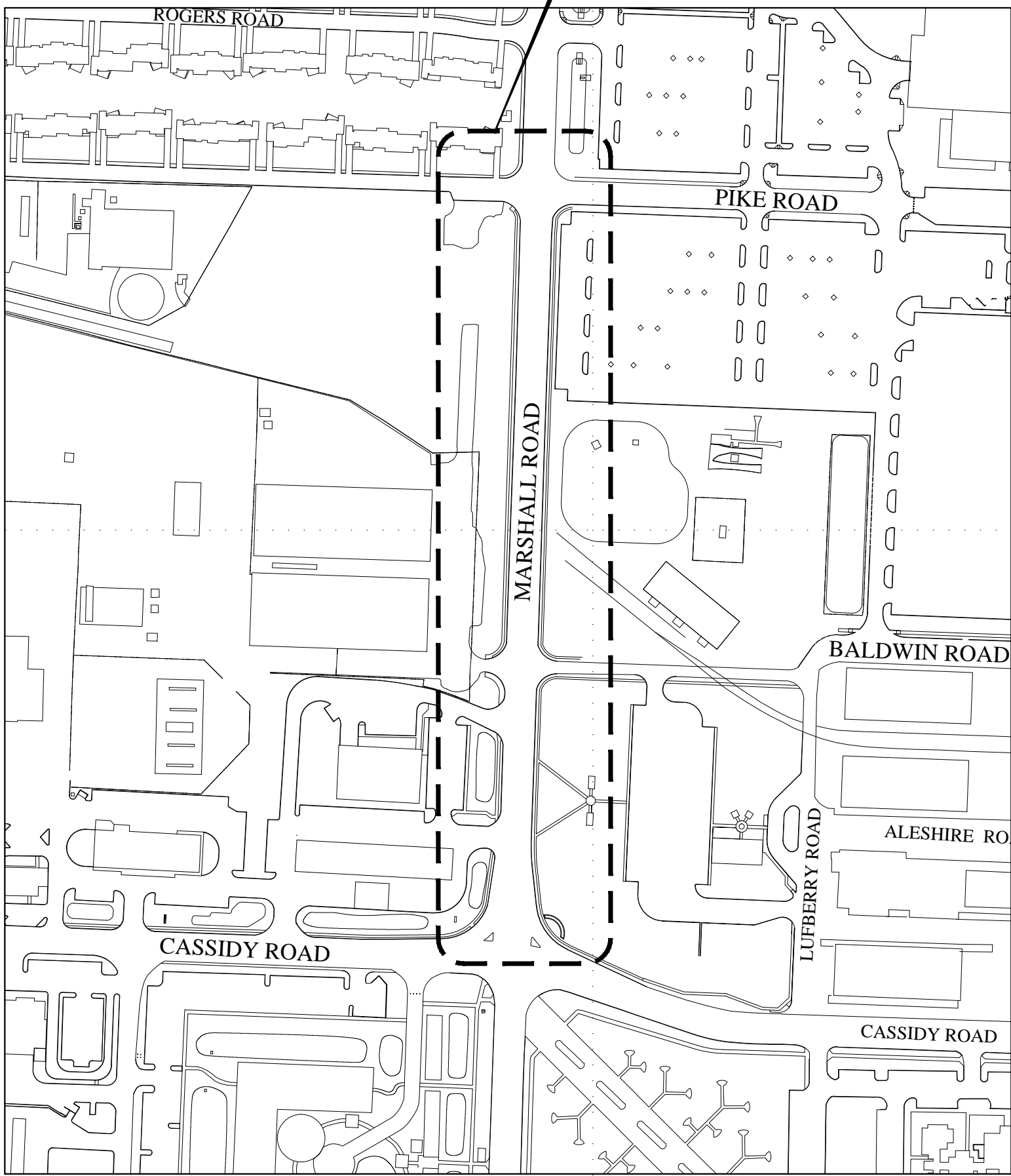
CONCURRENCES

USING AGENCY	DATE
FIRE DEPARTMENT	DATE
SAFETY OFFICER	DATE
PHYSICAL SECURITY OFFICER	DATE
INDUSTRIAL HYGIENE	DATE
NEC	DATE
ENVIRONMENTAL DIVISION	DATE
ANTI-TERRORISM/FORCE PROTECTION	DATE
MASTER PLANNING DIVISION	DATE
OPERATIONS & MAINTENANCE DIVISION	DATE

NOTES:
SIGNATURES INDICATE THAT THOSE SIGNING HAVE REVIEWED PROJECT
PLANS AND SPECIFICATIONS AND ARE IN CONCURRENCE WITH THEM.

APPROVED BY: CHIEF, DESIGN BRANCH, ESD, DPW

APPROVED BY: CHIEF, ENGINEERING SERVICES DIVISION, DPW



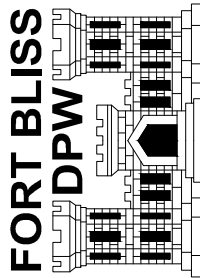
PROJECT LOCATION MAP

NOT TO SCALE

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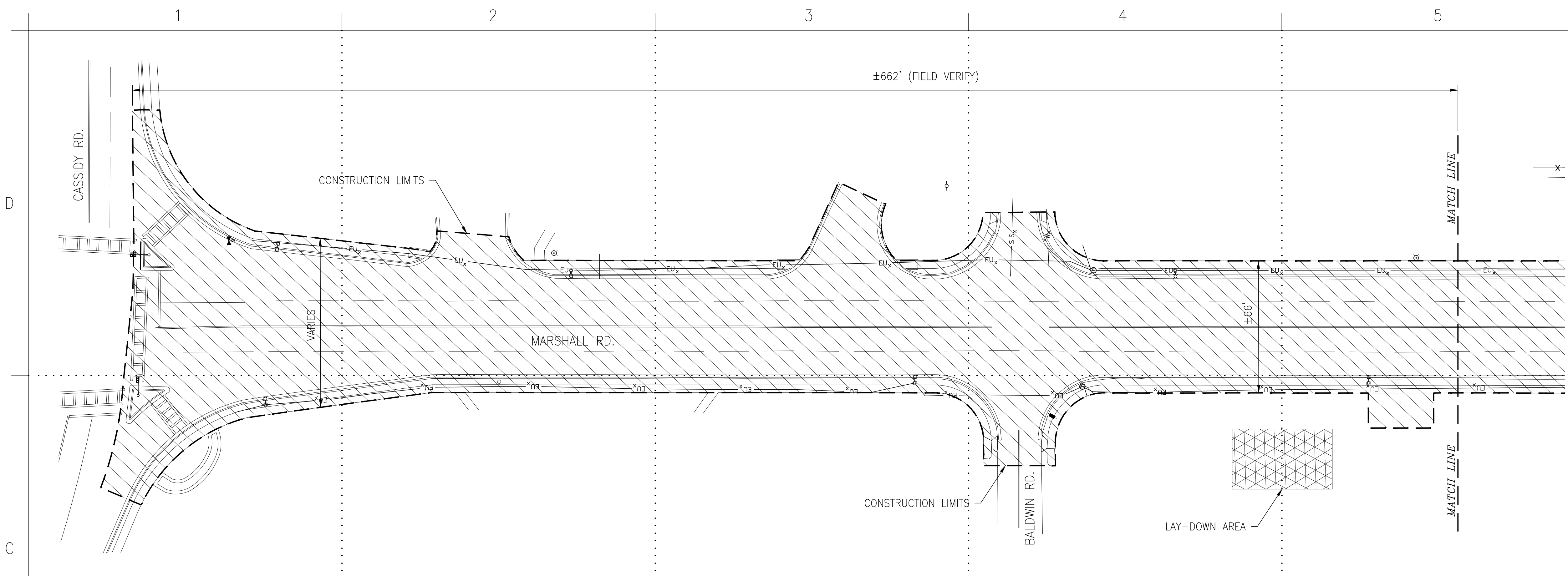
DESIGNED BY: J.A.	DATE: 04/26/2017
DRAWN BY: M.A.A.	W.O. # FE-10030-7J
REVIEWED BY: J.A.	SPEC. #
SCALE: AS SHOWN	

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FORT BLISS, TEXAS

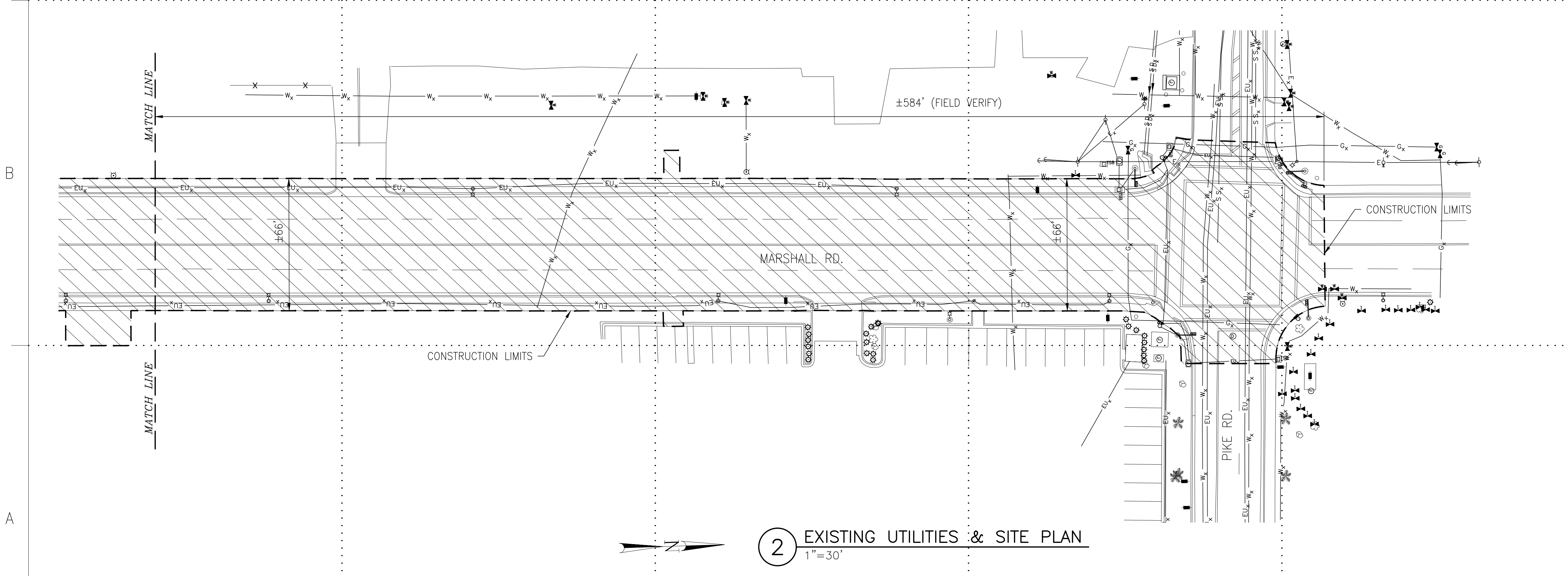


MARSHALL ROADWAY
IMPROVEMENTS FROM
PIKE TO CASSIDY
COVER SHEET

SHEET NUMBER:
C-100
1 OF 10



1 EXISTING UTILITIES & SITE PLAN
1"=30'



2 EXISTING UTILITIES & SITE PLAN
1"=30'

GENERAL NOTES

1. STOW ALL FLAMMABLE MATERIALS IN ACCORDANCE WITH LATEST VERSION OF EM 385-1-1, 15, SECTION 9 OF THE U.S. ARMY CORPS OF ENGINEERS SAFETY AND HEALTH REQUIREMENTS MANUAL, EXCEPT FLAMMABLE LIQUIDS SHALL NOT BE STORED ON SITES UNLESS SIN AN APPROVED FLAMMABLE STORAGE LOCKER PER NFPA AND 29 CFR 1910.
2. PRIOR TO ANY CHANGE OR MODIFICATION TO THESE DRAWINGS DUE TO ACTUAL CONDITIONS, DPW REPRESENTATIVE SHALL BE NOTIFIED FOR REVIEW AND APPROVAL.
3. COMPLY WITH THE REQUIREMENTS OF NFPA 241 FOR FIRE PREVENTION DURING CONSTRUCTION.
4. CONTRACTOR SHALL COMPLY WITH CX-LOG FROM DPW ENVIRONMENTAL.
5. CONSTRUCTION PROJECTS WHICH REQUIRE ANY TYPE OF DISTURBANCE OF THE SOIL MUST OBTAIN AN EXCAVATION REQUEST.
6. IF BONE IS ENCOUNTERED, STOP DIGGING IMMEDIATELY AND CONTACT MARTHA YDUARTE, ARCHEOLOGIST AT (915) 568-7015.
7. THE CONTRACTOR SHALL NOTIFY GOVERNMENT REPRESENTATIVE IF ANY SOIL DISCOLORATION, ODORS, RUBBISH AND/OR ANY ENVIRONMENTAL CONCERNS BE UNCOVERED, THE CONTRACTOR SHALL SUSPEND WORK ON THE SITE OF THE DISCOVERY AND CONTINUE OPERATIONS IN ALL OTHER AREAS.
8. EARTHWORK, GRADING OR ASPHALT ROUGHING, IF ANY, WILL REQUIRE DUST CONTROL WITH EITHER WATER OR DUST SUPPRESSANT DURING CONSTRUCTION OF PAVED AREA.
9. SURPLUS EARTH, GRAVEL, ASPHALT OR CONCRETE RUBBLE HAULED ON AND OFF THE INSTALLATION IN AN OPEN-BED TRUCK MUST BE COVERED OR WETTED TO MINIMIZE DUST.
10. ANY CRUSHING OF THIS MATERIALS SHOULD BE DONE OFF-POST BY AN AUTHORIZED AND PERMITTED FACILITY.

LAY-DOWN AREA NOTES

1. LAY-DOWN AREA SHALL BE DESIGNATED PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH DPW MASTER PLANNING.
2. THE CONTRACTOR SHALL RESTORE ANY ACCESS ROADS AND LAY-DOWN AREAS USED BACK TO THEIR ORIGINAL STABILIZED CONDITION OR BETTER.

UTILITIES NOTES

1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, WHETHER INDICATED ON THE DRAWING OR NOT, TO VERIFY THE LOCATION, DEPTH, AND CONDITION OF ALL EXITING UTILITIES AND SUBSTRUCTURES AND PROTECT THEM FROM ANY DAMAGE.
2. THE CONTRACTOR SHALL CONTACT ALL THE UTILITY COMPANIES AND CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE PROMPTLY REPAIRED BY THE CONTRACTOR AT NO EXPENSE TO GOVERNMENT.
3. NOTIFY THE DPW REPRESENTATIVE IN WRITING AT LEAST 14 DAYS BEFORE ANY UTILITY OUTAGE OR ROAD CLOSURE.

LEGEND

- ⊗ FIRE HYDRANT
- ⊕ WATER VALVE
- ⊙ LIGHT POLE
- ⊙ POWER POLE
- ⊙ GUY WIRE
- ⊙ ELECTRICAL CONDUIT RISER
- ⊙ JUNCTION BOX
- ⊙ GUARD POST
- ⊙ SIGN POLE
- ⊙ TELEPHONE PEDESTAL
- ⊙ GAS VALVE
- ⊙ IRRIGATION CONTROL VALVE
- ⊙ TRAFFIC SIGNAL LIGHT
- ⊙ PEDESTRIAN TRAFFIC SIGNAL LIGHT
- ⊙ CLEANOUT
- ⊙ STORM SEWER MANHOLE
- ⊙ TELEPHONE MANHOLE
- ⊙ SANITARY SEWER MANHOLE
- ⊙ TRAFFIC SIGNAL BOX
- ⊙ TELEPHONE JUNCTION BOX
- ⊙ BOULDER
- ⊙ SHRUB
- ⊙ PALM TREE
- ⊙ GENERIC TREE
- ⊙ CONIFEROUS TREE
- X—X— WIRE FENCE
- EUx— UNDERGROUND ELECTRICAL LINE
- OUx— UNDERGROUND TELEPHONE LINE
- Ex— OVERHEAD ELECTRICAL LINE
- Wx— WATER LINE
- Sx— STORM SEWER LINE
- Gx— GAS LINE

DATE	
MARK	
DESCRIPTION	

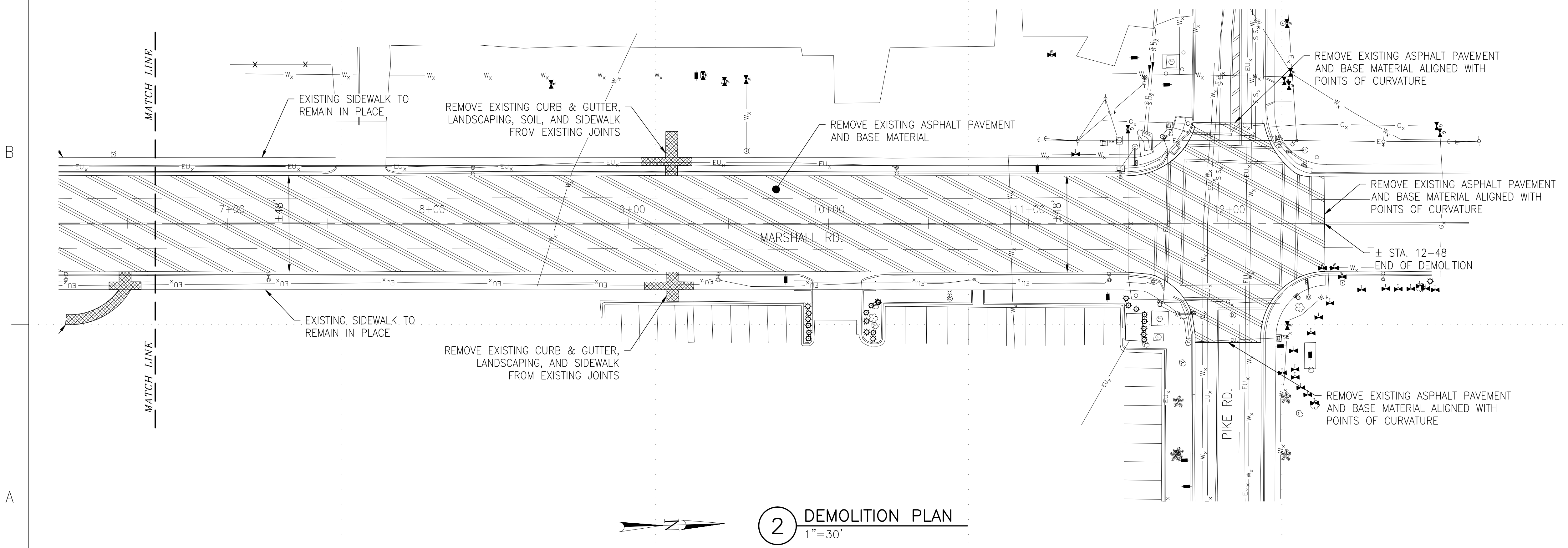
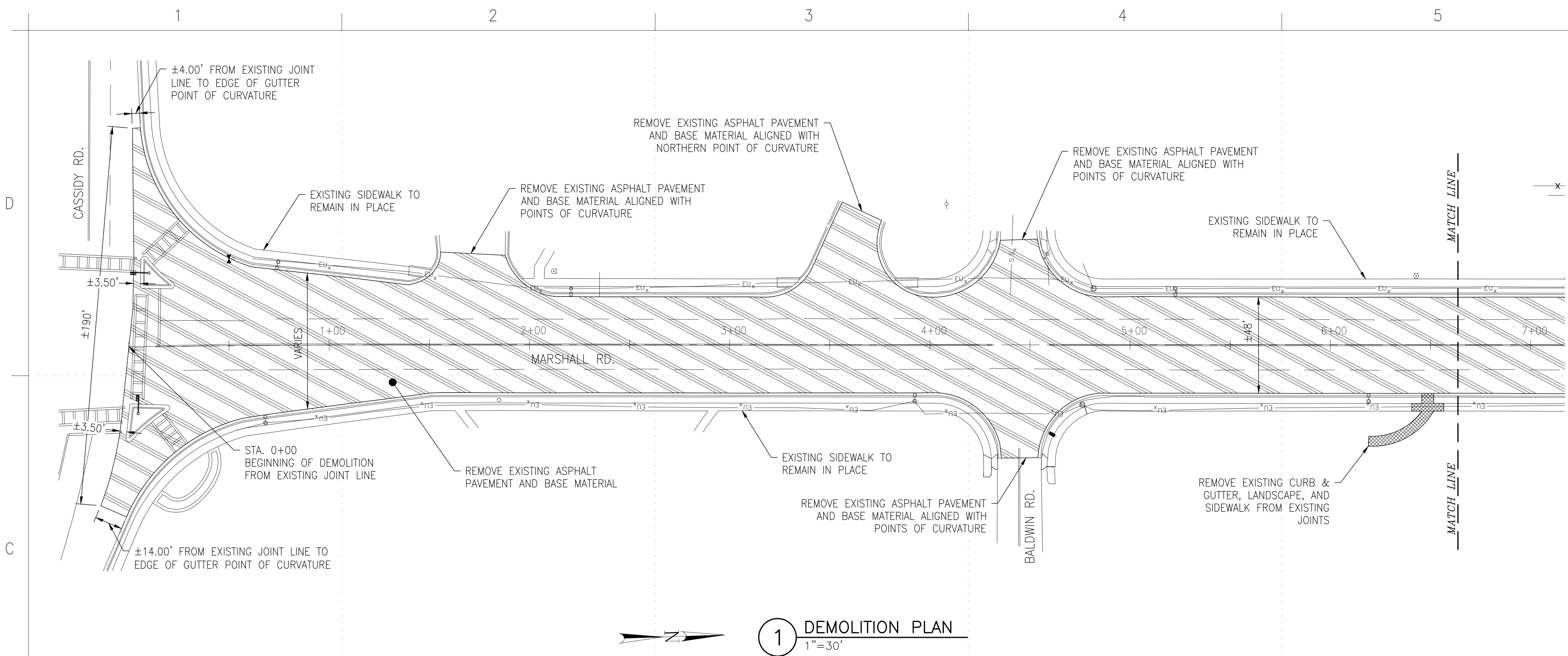
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SCALE:	AS SHOWN		

DIRECTORATE OF
PUBLIC WORKS
FORT BLISS, TEXAS

FORT BLISS
DPW

MARSHALL ROADWAY
IMPROVEMENTS FROM
PIKE TO CASSIDY
EXISTING UTILITIES & SITE PLAN

SHEET NUMBER:
C-101
2 OF 10



DEMOLITION NOTES

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE COMMENCING WORK.
2. EXISTING PAVEMENTS AND ALL OTHER AREAS ADJACENT TO THE SITE SHALL BE KEPT CLEAN AT ALL TIMES. DO NOT ALLOW BUILDUP OF SOIL, MUD, DUST OR OTHER DEBRIS.
3. CONTRACTOR SHALL BE AWARE OF ONGOING CONSTRUCTION ON ADJACENT SITES AND COORDINATE WHEN NEEDED WITH OTHER CONTRACTORS.
4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, WHETHER INDICATED ON THE DRAWING OR NOT TO VERIFY THE LOCATION, DEPTH, AND CONDITION OF ALL EXISTING UTILITIES AND SUBSTRUCTURES AND PROTECT THEM FROM ANY DAMAGE.
5. PROMPTLY NOTIFY THE DPW REPRESENTATIVE OF ANY DISCREPANCIES AND/OR CONDITIONS WHICH PREVENT FULFILLING THE TERMS OF THE CONTRACT.
6. ITEMS AND MATERIALS TO BE REMOVED SHALL BE DONE IN SUCH A MANNER AS TO PREVENT DAMAGES TO ITEMS AND MATERIALS THAT REMAIN. SUCH DAMAGES SHALL BE REPAIRED TO THE SATISFACTION OF THE DPW REPRESENTATIVE AND AT NO ADDITIONAL COST TO THE GOVERNMENT.
7. ALL SAW-CUT WORK SHALL BE PERFORMED IN A NEAT, WORKMAN LIKE MANNER, AS APPROVED BY DPW REPRESENTATIVE. WHERE CONCRETE DEMOLITION IS REQUIRED, CONTRACTOR SHALL USE A SAW CUT AT THE LIMITS OF DEMOLITION OR NEAREST JOINT TO OBTAIN A CLEAN VERTICAL EDGE.
8. CONSTRUCTION AND DEMOLITION DIVERSION: FORT BLISS REQUIRES A MINIMUM OF 60% OF CONSTRUCTION AND DEMOLITION MATERIALS AND DEBRIS FROM LANDFILLS. IF THE CONTRACTOR HAS A VALID REASON FOR NOT BEING ABLE TO MEET THIS DIVERSION GOAL, THE CONTRACTOR NEEDS TO PRESENT THEIR REASONING IN WRITING TO DPW-ENVIRONMENTAL.
9. WASTE MATERIAL OR EXCESS TOPSOIL GENERATED AS A RESULT OF CLEARING AND GRADING OPERATIONS SHALL BECOME THE PROPERTY OF THE CONTRACTOR APPROPRIATE DISPOSAL OF ALL SPOIL MATERIAL SHALL BE AT THE CONTRACTOR'S EXPENSE. BURNING ON THE OWNER'S PROPERTY IS NOT PERMITTED.

LEGEND

- FIRE HYDRANT
- WATER VALVE
- LIGHT POLE
- POWER POLE
- GUY WIRE
- ELECTRICAL CONDUIT RISER
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- SIGN POLE
- TELEPHONE PEDESTAL
- GAS VALVE
- IRRIGATION CONTROL VALVE
- TRAFFIC SIGNAL LIGHT
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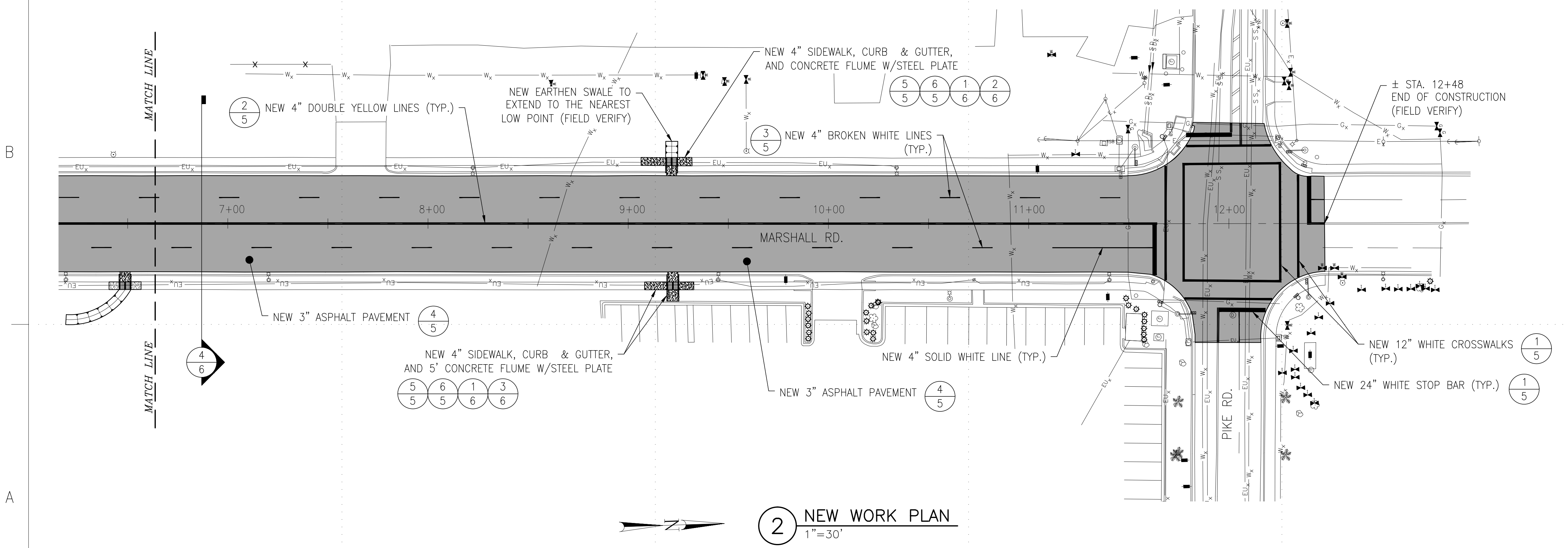
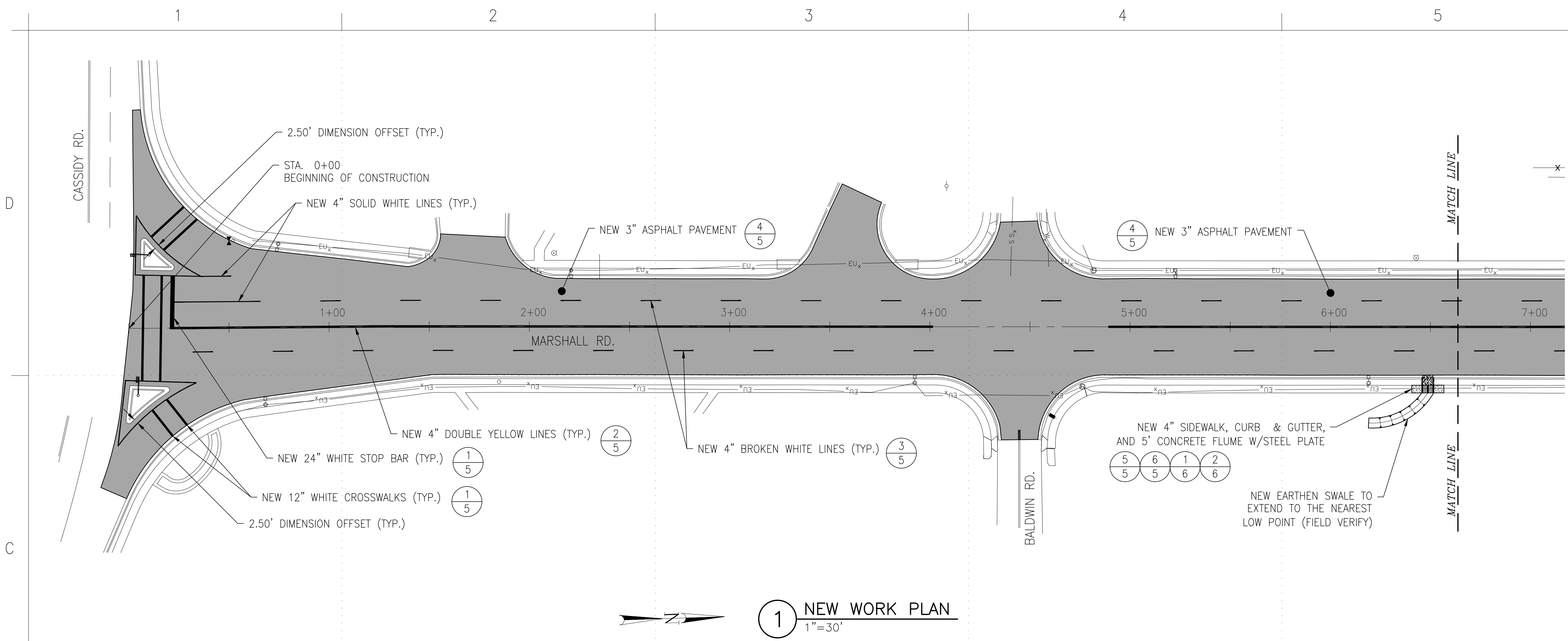
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DIRECTORATE OF PUBLIC WORKS
FORT BLISS, TEXAS

FORT BLISS DPW

MARSHALL ROADWAY
IMPROVEMENTS FROM
PIKE TO CASSIDY
DEMOLITION WORK PLAN



CONCRETE NOTES

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH ACI-318-02
2. CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF F'C=4000 PSI IN 28 DAYS, UNLESS NOTED OTHERWISE.
3. ALL STEEL REINFORCING BARS SHALL CONFORM TO ASTM A-615-4 GRADE 60 STEEL.
4. CONCRETE SLUMP SHALL BE 3.0" +/- 1.0".
5. CONCRETE AIR-ENTRANCE SHALL BE: 2.5% TO 4.5%.
6. CONTRACTION JOINTS SHOULD HAVE A MINIMUM DEPTH OF ¼ THE THICKNESS OF THE SLAB, BUT NOT LESS THAN 1 INCH. INSTALL EXPANSION JOINTS WITH THICKENED EDGE AND HOT POURED JOINT SEALER WHERE CONCRETE ABUTS WITH OTHER STRUCTURES IN PAVEMENT UNLESS NOTED OTHERWISE.
7. NO JAGGED OR IRREGULAR CUTS WILL BE ACCEPTED. NEAT SAW CUT LINE REQUIRED ALONG EXISTING PERIMETER JOINTS.
8. INSTALL EXPANSION JOINTS WITH THICKENED EDGE AND HOT POURED JOINT SEALER WHERE CONCRETE ABUTS WITH OTHER STRUCTURES IN PAVEMENT UNLESS NOTED OTHERWISE.
9. DO NOT UNLOAD OR USE ANY HEAVY CONSTRUCTION EQUIPMENT ON NEW CONCRETE FOR AT LEAST 7 DAYS AFTER CONCRETE IS POURED.
10. A WHITE PIGMENTED MEMBRANE CURING SHALL BE USED FOR THE CONCRETE, AS APPROVED BY THE GOVERNMENT REPRESENTATIVE.

ASPHALT NOTES

1. CONTRACTOR SHALL FIELD VERIFY THE EXISTING PAVEMENT ELEVATIONS OF ALL DRIVEWAYS AND ROADS TO ENSURE THE PROPOSED IMPROVEMENTS MATCH EXISTING ELEMENTS.
2. FINAL PAVING SURFACES SHALL BE DIRECTED INTO THE NEW CONCRETE FLUMES. ANY PONDING AREAS TO BE CORRECTED/ELIMINATED.
3. NEW LONGITUDINAL GRADE ON NEW PAVEMENT SHALL HAVE AT LEAST A MINIMUM SLOPE OF 0.5% AND A MINIMUM OF 2.0% FOR TRANSVERSE GRADE.

STRIPPING NOTES

1. STRIPING SHALL CONFORM WITH TXDOT ITEM 666 RETROREFLECTORIZED PAVEMENT MARKINGS.
2. STRIPING IS SHOWN "NOT TO SCALE" FOR CLARITY.
3. ALL STRIPING AND PAVEMENT MARKINGS SHALL BE THERMOPLASTIC (REFER TO DMS-8220) TEMPORARY STRIPING AND PAVEMENT MARKINGS ARE TO BE PAINTED.

LEGEND

- | | |
|--|---------------------------------|
| | FIRE HYDRANT |
| | WATER VALVE |
| | LIGHT POLE |
| | POWER POLE |
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| | ELECTRICAL CONDUIT RISER |
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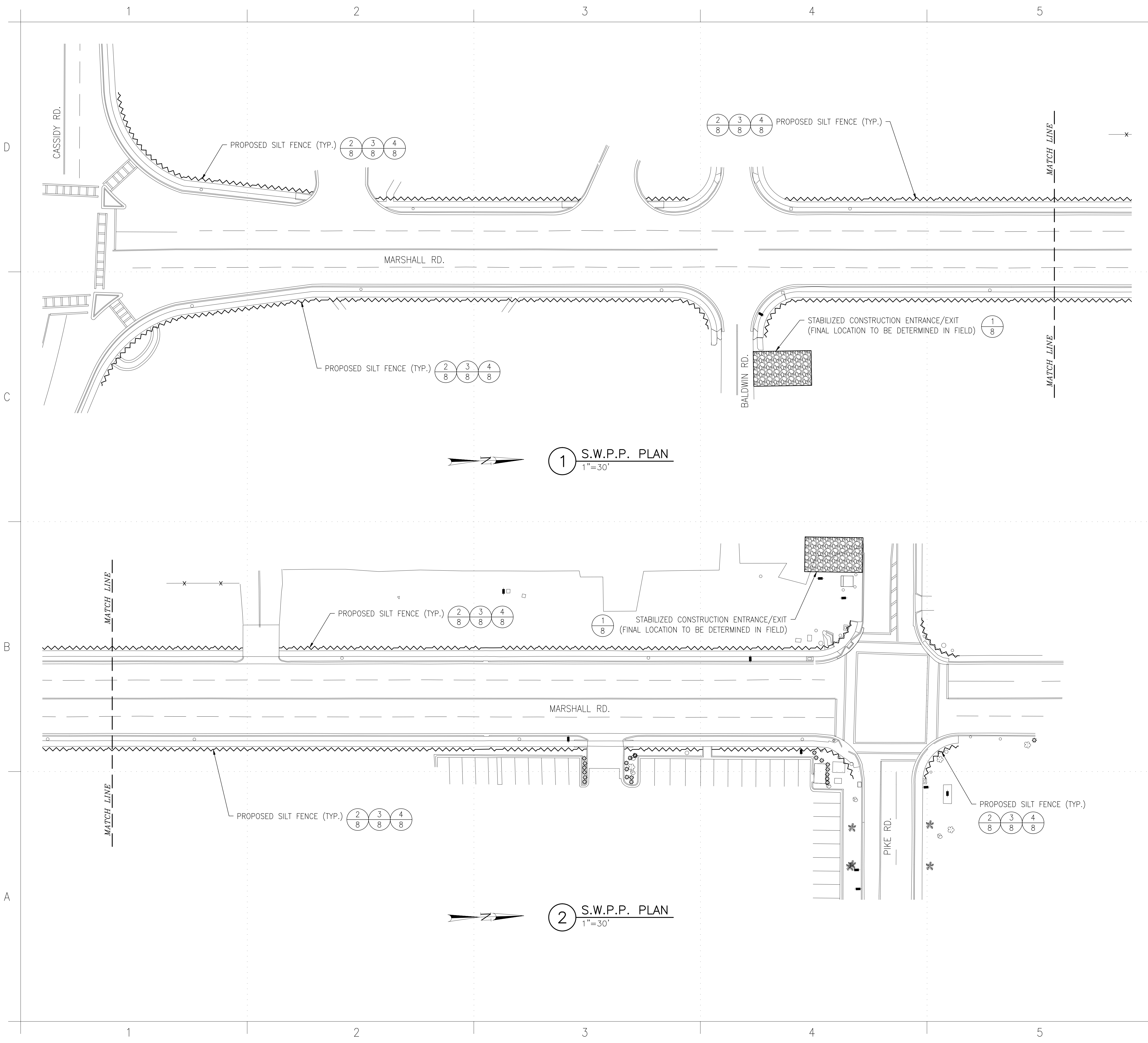
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FORT BLISS, TEXAS

FORT BLISS DPW

MARSHALL ROADWAY IMPROVEMENTS FROM PIKE TO CASSIDY
NEW WORK PLAN



SHEET
NUMBER:
C-104
5 OF 10



GENERAL NOTES

1. CONTRACTOR SHALL INSTALL ALL EROSION CONTROL MEASURES ACCORDING TO EROSION CONTROL SHEETS. CONTRACTOR SHALL HAVE A COPY OF AREA SWPPP AND EROSION CONTROL SHEET ON SITE THROUGHOUT CONSTRUCTION.
2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL EROSION CONTROL FEATURES AND PRACTICES FOR THEIR DESIGNATED AREAS UNTIL EITHER THE CONSTRUCTION SITE IS TRANSFERRED TO OTHER CONTRACTORS, OR UNTIL FINAL STABILIZATION HAS BEEN ACHIEVED ON HIS PORTION OF THE PROJECT AREA.
3. CONTRACTOR SHALL INSTALL TEMPORARY GRAVEL CONSTRUCTION ENTRANCES/EXITS AND THEY SHALL BE LOCATED PER APPROVED EROSION CONTROL PLANS AND IN COORDINATION WITH FORT BLISS DPW.
4. CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES, AS INDICATED ON THE PLANS AND AS FIELD CONDITIONS WARRANT, PRIOR COMMENCING ANY CONSTRUCTION ACTIVITY. REPAIRS OR MODIFICATIONS TO THE MEASURES WILL BE MADE BY THE CONTRACTOR IF THE CONTROL MEASURES PROVE INEFFECTIVE OR IF ADDITIONAL CONTROL MEASURES ARE NECESSARY.
5. CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO PREVENT TRACKING OF MUD AND OR SOILS ONTO EXISTING AND OR NEW PAVEMENT. ANY TRACKING THAT OCCURS SHALL BE REMOVED IMMEDIATELY BY THE CONTRACTOR.
6. AT A MINIMUM, PERIMETER CONTROLS SUCH A S SILT FENCE SHALL BE INSTALLED AT ALL DOWN SLOPE BOUNDARIES AS SHOWN ON PLANS AND AS WARRANTED WHERE PAVEMENT REMOVAL, UTILITY CONSTRUCTION, GRADING, OR OTHER CONSTRUCTION ACTIVITIES ARE TO BE PERFORMED.
7. DAMAGE TO ADJACENT AREAS AND OR TO RECEIVING WATERS CAUSED BY IMPROPERLY INSTALLED OR POORLY MAINTAINED EROSION CONTROL MEASURES WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ANY SILTATION CAUSED BY HIS OPERATIONS AND OR FAILURE OF THE EROSION CONTROL MEASURES.
9. CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF ACCUMULATED SILT AND SEDIMENT FROM EROSION CONTROL MEASURES WHEN IT REACHES $\frac{1}{3}$ THE HEIGHT OF THE BARRIER / SILT FENCE, OR IMPAIRS THE EFFECTIVENESS OF THE MEASURES.
10. THE CONTRACTORS REPRESENTATIVE WILL CONTINUOUSLY INSPECT THE INTEGRITY AND EFFECTIVENESS OF THE EROSION CONTROL MEASURES.

LEGEND

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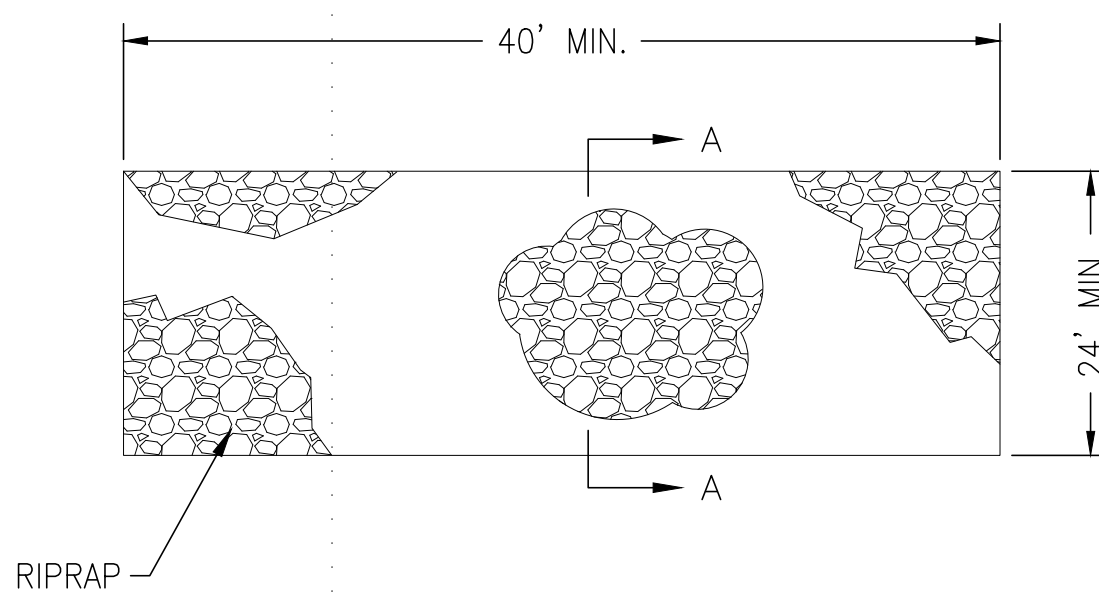
MARSHALL ROADWAY
IMPROVEMENTS FROM PIKE
TO CASSIDY
STORM-WATER POLLUTION
PREVENTION PLAN

SHEET
NUMBER:
C-106
7 OF *10*

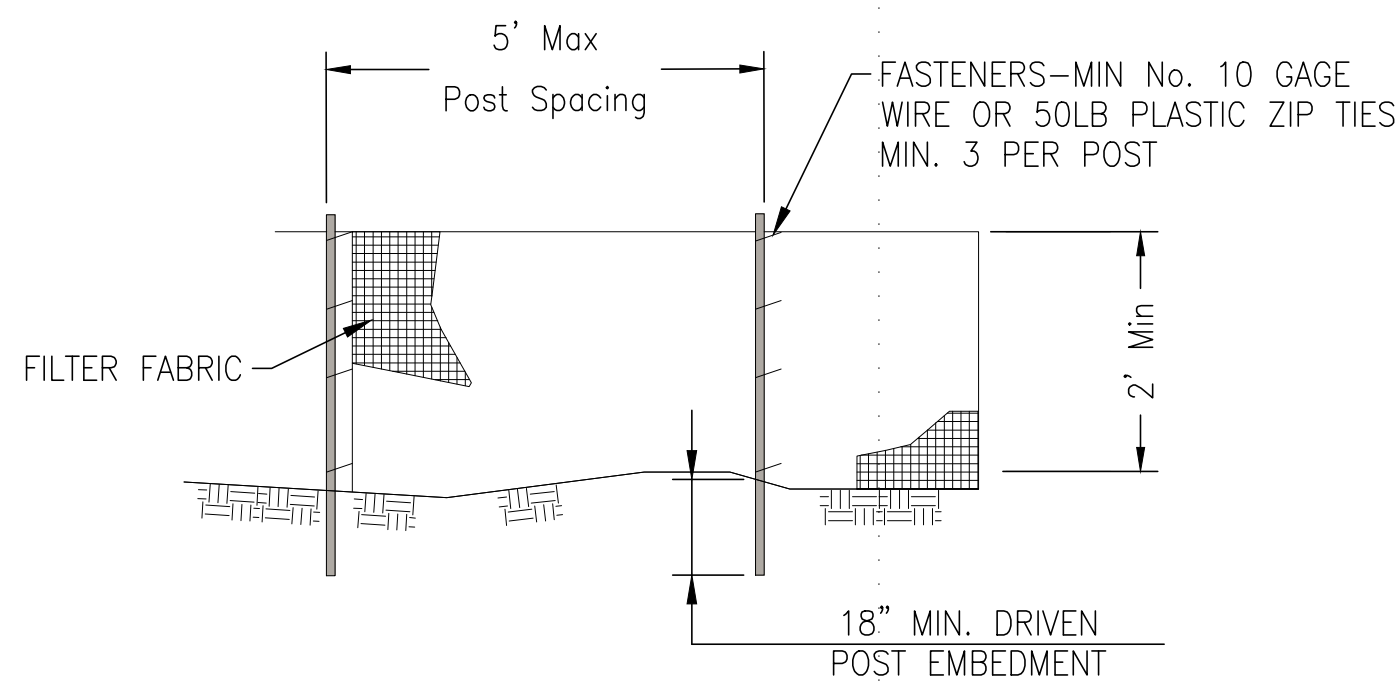
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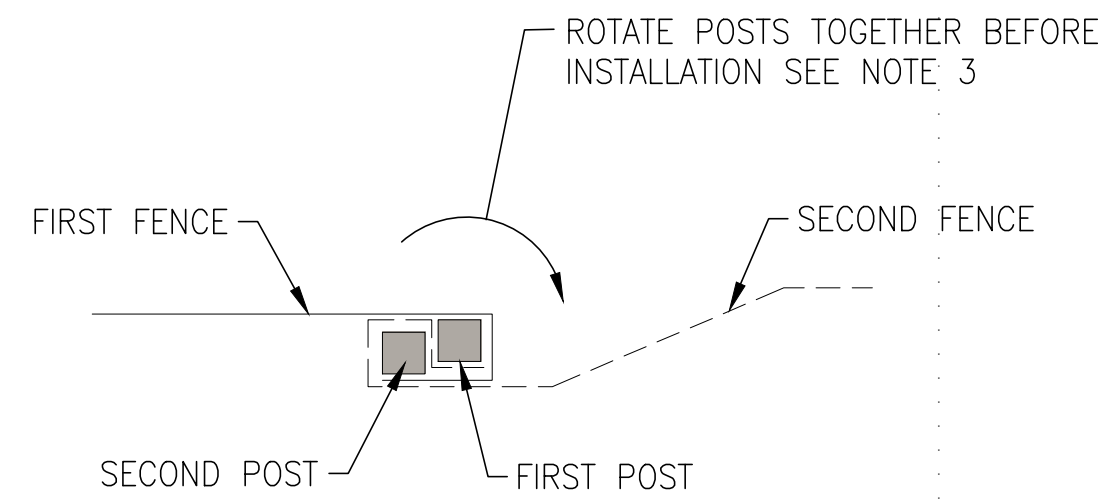
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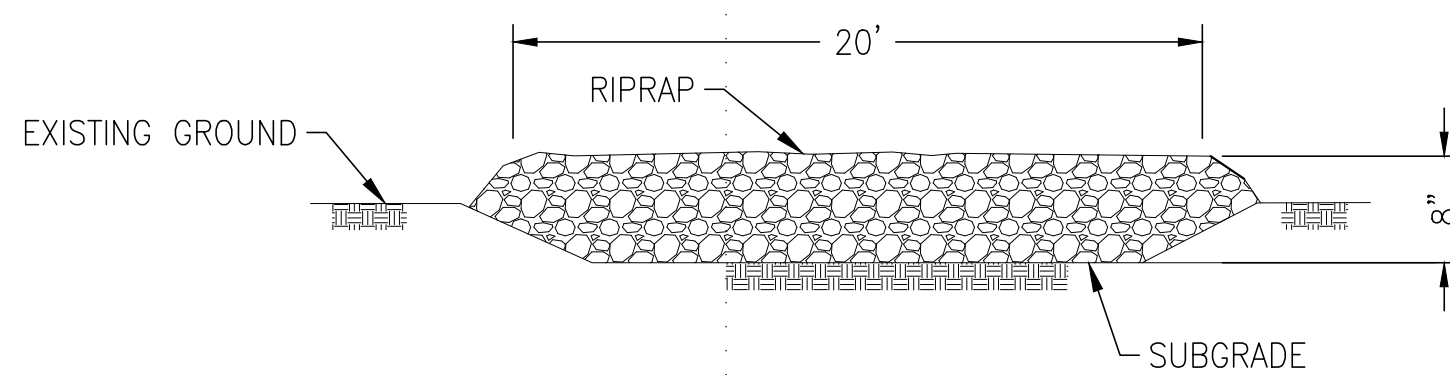
1 CONSTRUCTION ROAD STABILIZATION
NOT TO SCALE



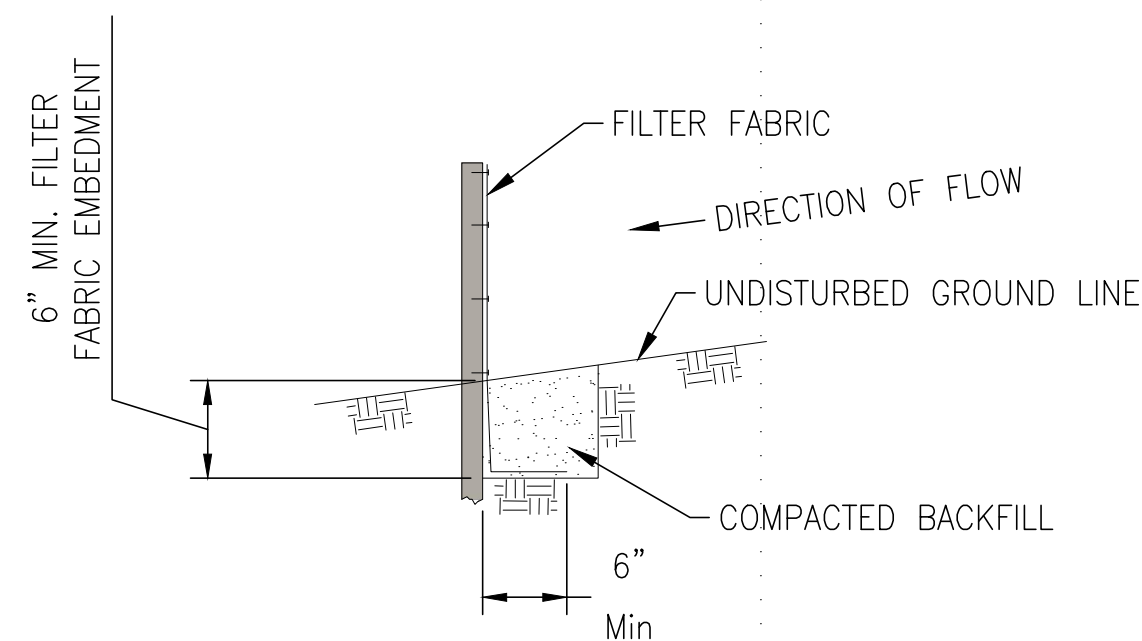
2 SILT FENCE-ELEVATION VIEW
NOT TO SCALE



3 SILT FENCE SPLICE DETAIL-PLAN VIEW
NOT TO SCALE



SECTION A-A
NOT TO SCALE



4 SILT FENCE-FABRIC ANCHOR DETAIL
NOT TO SCALE

SILT FENCE NOTES:

1. TEMPORARY SILT FENCE SHALL BE INSTALLED PRIOR TO ANY GRADING WORK IN THE AREA TO BE PROTECTED. FENCE SHALL BE MAINTAINED TROUGHOUT THE CONSTRUCTION PERIOD AND REMOVED IN CONJUNCTION WITH THE FINAL GRADING AND SITE STABILIZATION.
2. FENCE POSTS SHALL BE EITHER WOOD POST WITH A MINIMUM CROSS-SECTIONAL AREA OF 1.5" x 1.5" OR A STANDARD STEEL POST.
3. WHEN SPLICES ARE NECESSARY MAKE SPLICE AT POST ACCORDING TO SPLICE DETAIL. PLACE THE END POST OF THE SECOND FENCE INSIDE THE END POST OF THE FIRST FENCE. ROTATE BOTH POSTS TOGETHER AT LEAST 180 DEGREES TO CREATE A TIGHT SEAL WITH THE FABRIC MATERIAL. CUT THE FABRIC NEAR THE BOTTOM OF THE POSTS TO ACCOMODATE THE 6 INCH FLAP. THEN DRIVE BOTH POSTS AND BURY THE FLAP. COMPACT BACKFILL WELL.

B

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D

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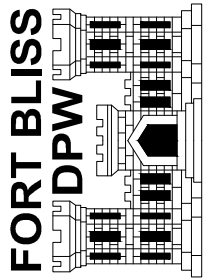
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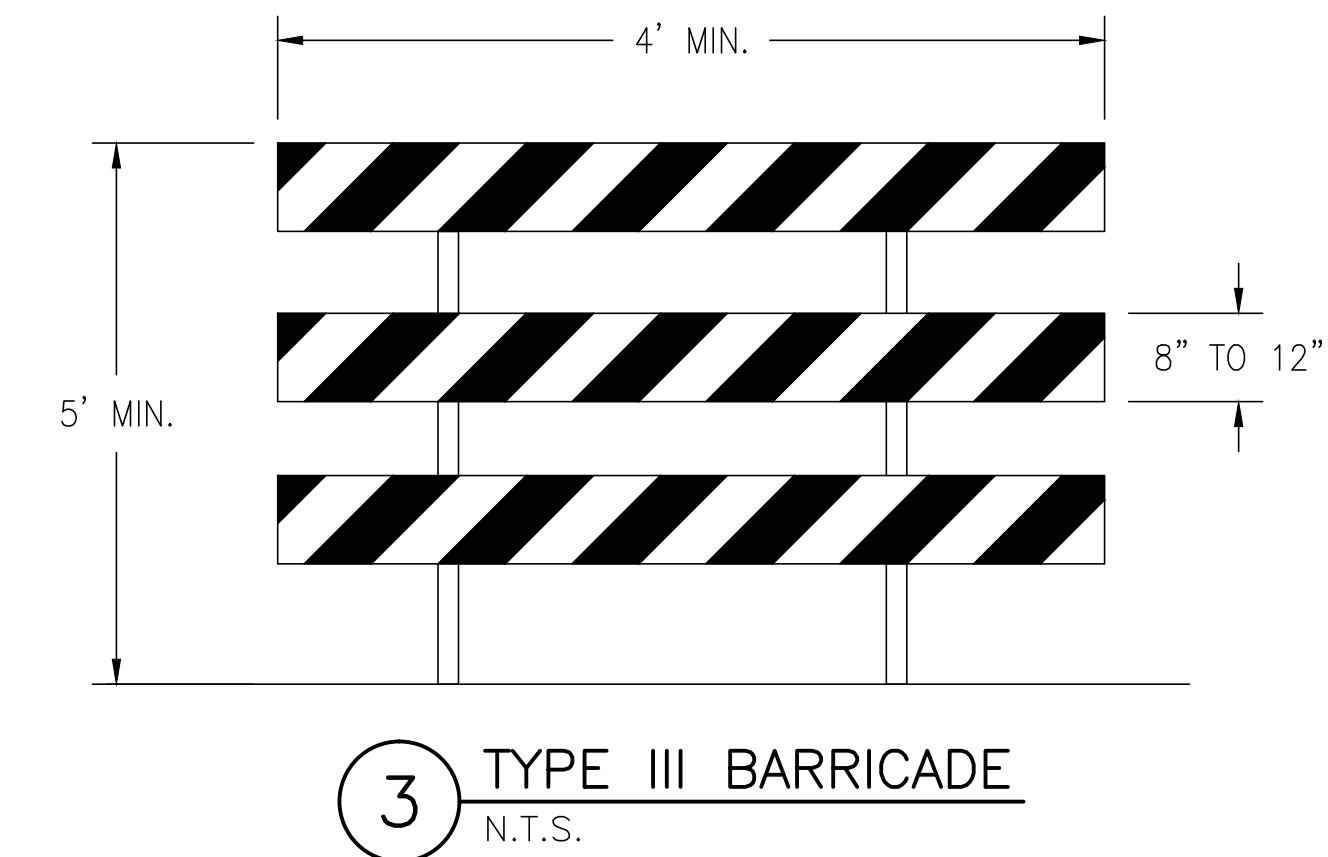
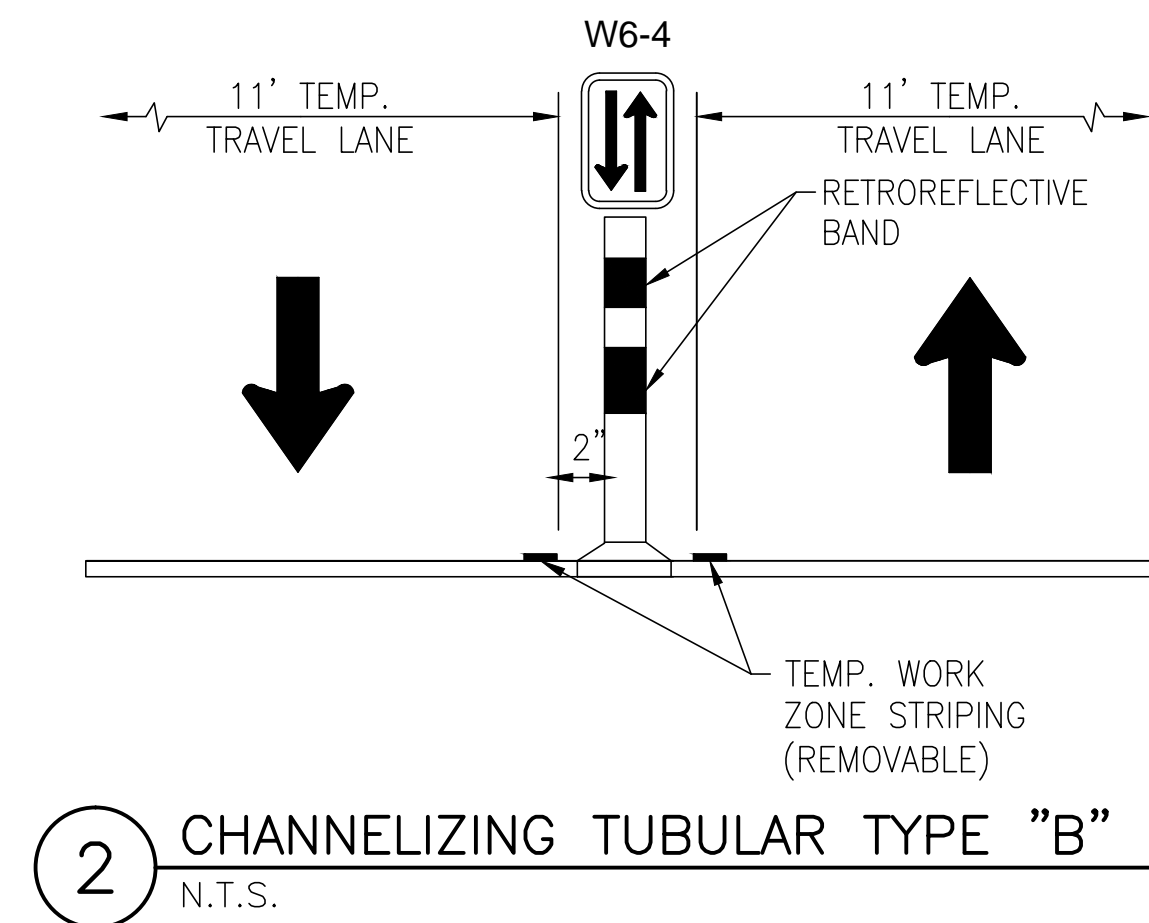
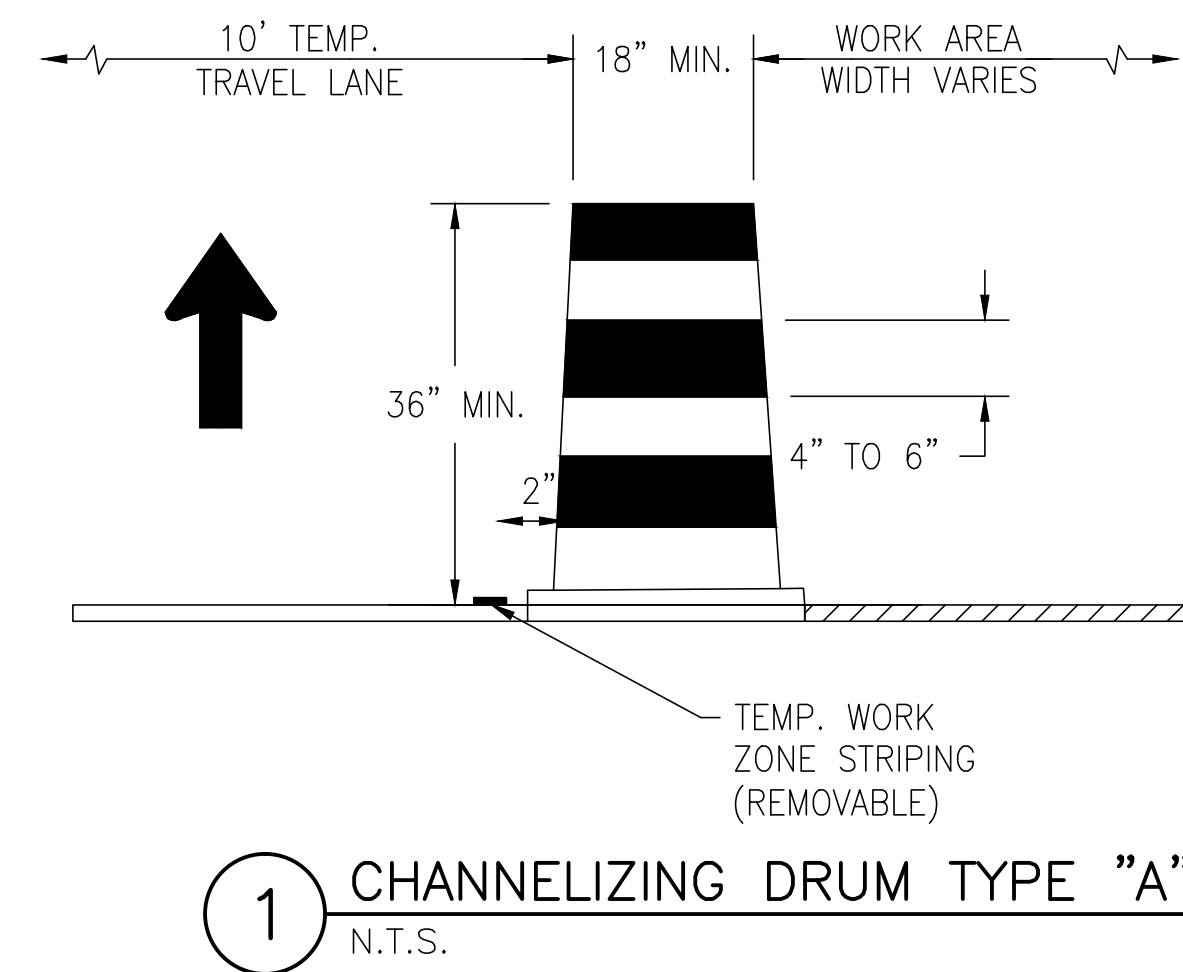
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MARSHALL ROADWAY
IMPROVEMENTS FROM PIKE
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STORM-WATER POLLUTION
PREVENTION PLAN DETAILS

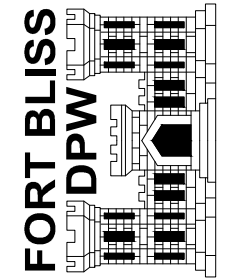
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8 OF 10



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FORT BLISS, TEXAS



MARSHALL ROADWAY
IMPROVEMENTS FROM PIKE
TO CASSIDY
TRAFFIC CONTROL PLAN (CONCEPT)
DETAILS

SHEET
NUMBER:

C-109

10 OF 10