ATTACHMENT G1
APPENDIX H

DESIGN DRAWINGS

PANEL CLOSURE SYSTEM
WASTE ISOLATION PILOT PLANT
CARLSBAD, NEW MEXICO

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ATTACHMENT G1
APPENDIX H

DESIGN DRAWINGS

PANEL CLOSURE SYSTEM
WASTE ISOLATION PILOT PLANT
CARLSBAD, NEW MEXICO

Drawing	Title
762447-E1	Panel closure system, air intake and exhaust drifts, title sheet
762447-E2	Panel closure system, underground waste-emplacement panel plan
762447-E3	Panel closure system, air intake drift, construction details
762447-E4	Panel closure system, air exhaust drift, construction details
762447-E5	Panel closure system, construction and explosion walls, construction details
762447-E6	Panel closure system, air intake and exhaust drifts, grouting and miscellaneous details

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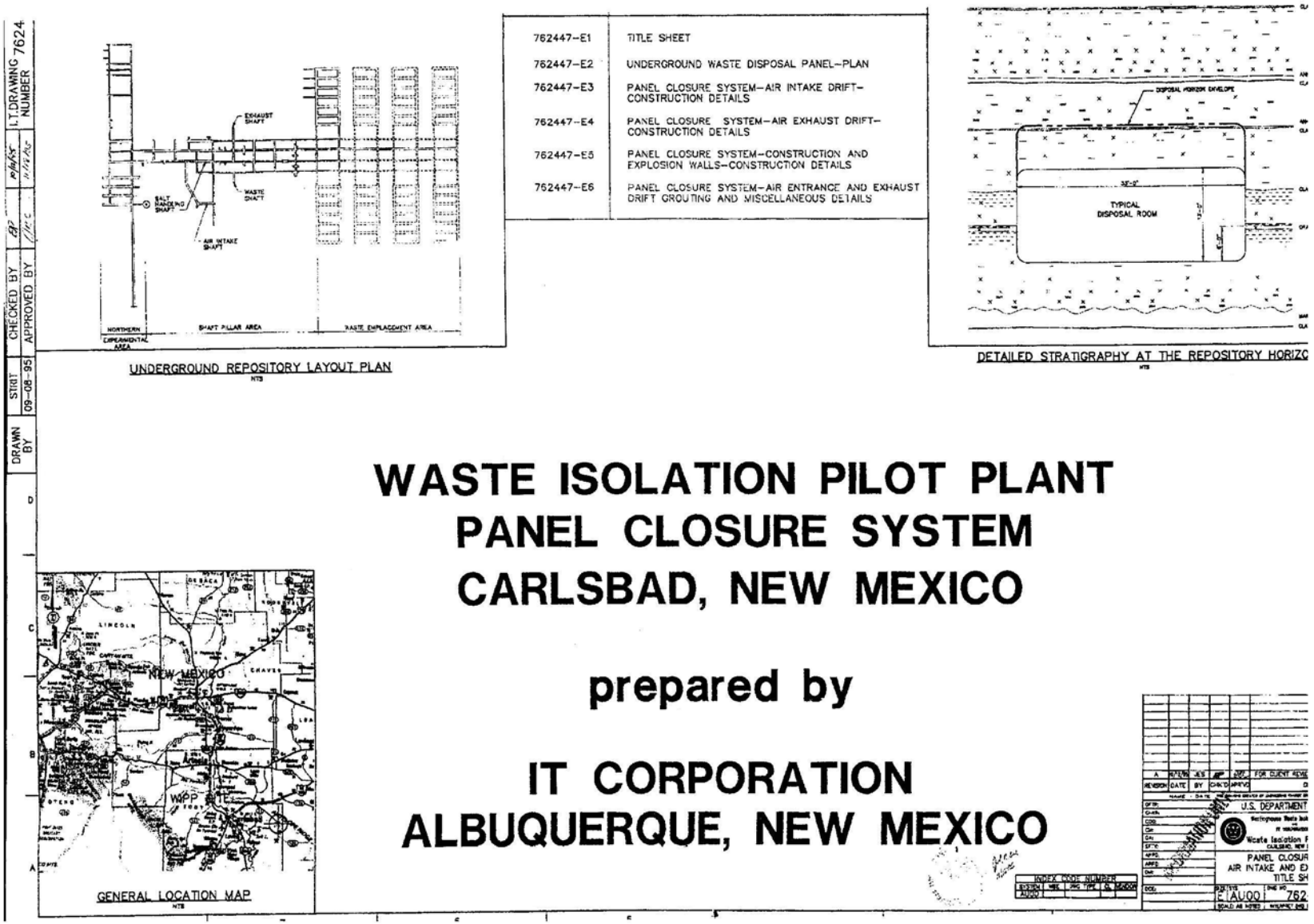
I.T. DRAWING NUMBER 7624
CHECKED BY
APPROVED BY
DATE 09-08-95
DRAWN BY
762447-E1 TITLE SHEET
762447-E2 UNDERGROUND WASTE DISPOSAL PANEL-PLAN
762447-E3 PANEL CLOSURE SYSTEM-AIR INTAKE DRIFT-CONSTRUCTION DETAILS
762447-E4 PANEL CLOSURE SYSTEM-AIR EXHAUST DRIFT-CONSTRUCTION DETAILS
762447-E5 PANEL CLOSURE SYSTEM-CONSTRUCTION AND EXPLOSION WALLS-CONSTRUCTION DETAILS
762447-E6 PANEL CLOSURE SYSTEM-AIR ENTRANCE AND EXHAUST DRIFT GROUTING AND MISCELLANEOUS DETAILS
EXHAUST SHAFT
WASTE SHAFT
SALT HANDLING SHAFT
AIR INTAKE SHAFT
NORTHERN EXPERIMENTAL AREA
SHAFT PILLAR AREA
WASTE EMPLACEMENT AREA
UNDERGROUND REPOSITORY LAYOUT PLAN
DISPOSAL HORIZON ENVELOPE
TYPICAL DISPOSAL ROOM
DETAILED STRATIGRAPHY AT THE REPOSITORY HORIZO
WASTE ISOLATION PILOT PLANT
PANEL CLOSURE SYSTEM
CARLSBAD, NEW MEXICO
prepared by
IT CORPORATION
ALBUQUERQUE, NEW MEXICO
NEW MEXICO
WIPP SITE
GENERAL LOCATION MAP
U.S. DEPARTMENT
PANEL CLOSUR
AIR INTAKE AND E
TITLE SH
E1AU001
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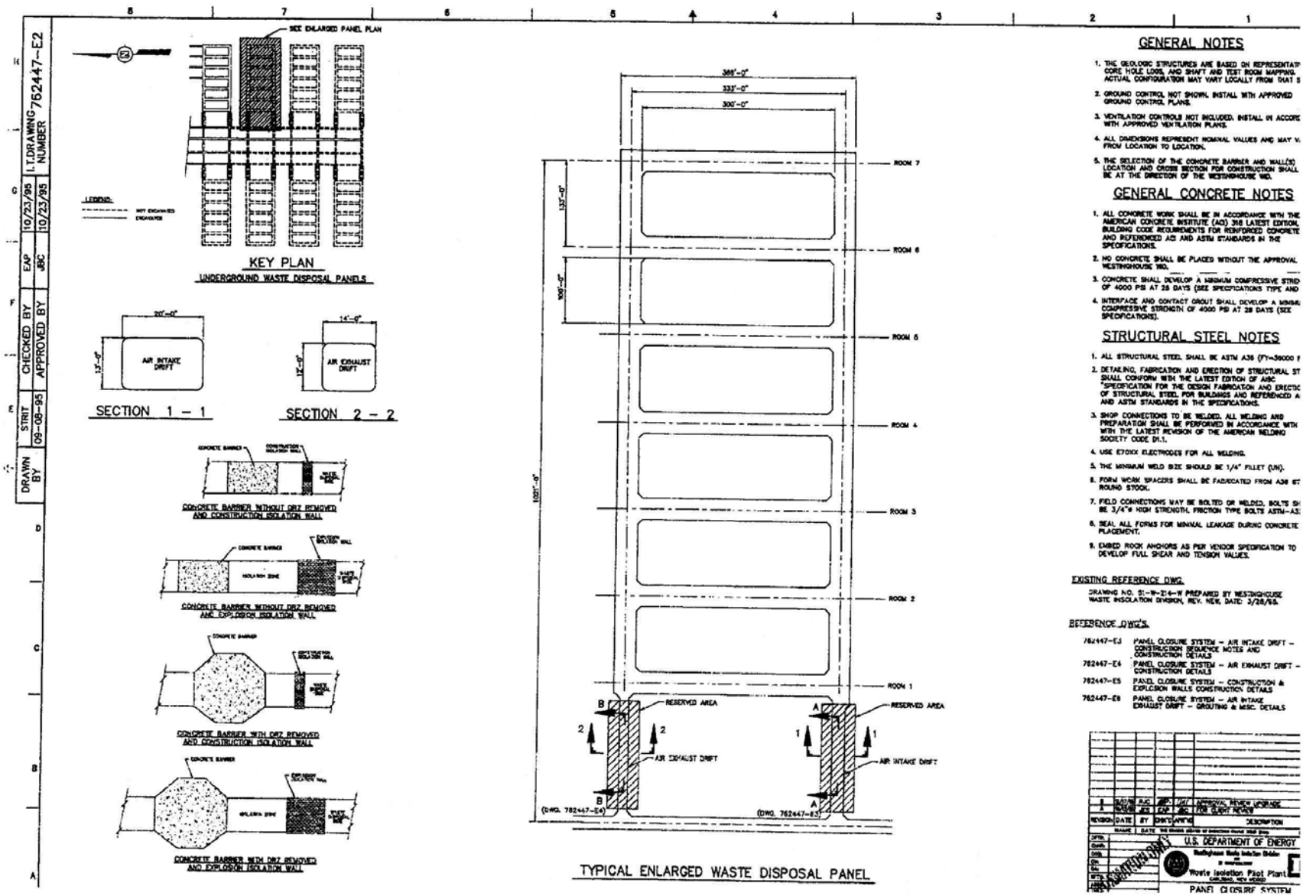
I.T. DRAWING NUMBER 762447-E2
DRAWN BY STRIT 09-08-95
CHECKED BY EAP 10/23/95
APPROVED BY JBC 10/23/95
SEE ENLARGED PANEL PLAN
KEY PLAN
UNDERGROUND WASTE DISPOSAL PANELS
AIR INTAKE DRIFT
AIR EXHAUST DRIFT
SECTION 1 – 1
SECTION 2 – 2
CONCRETE BARRIER WITHOUT DRZ REMOVED AND CONSTRUCTION ISOLATION WALL
CONCRETE BARRIER WITHOUT DRZ REMOVED AND EXPLOSION ISOLATION WALL
CONCRETE BARRIER WITH DRZ REMOVED AND CONSTRUCTION ISOLATION WALL
CONCRETE BARRIER WITH DRZ REMOVED AND EXPLOSION ISOLATION WALL
ROOM 7
ROOM 6
ROOM 5
ROOM 4
ROOM 3
ROOM 2
ROOM 1
RESERVED AREA
AIR EXHAUST DRIFT
AIR INTAKE DRIFT
(DWG. 762447-E4)
(DWG. 762447-E3)
TYPICAL ENLARGED WASTE DISPOSAL PANEL
GENERAL NOTES
GENERAL CONCRETE NOTES
STRUCTURAL STEEL NOTES
EXISTING REFERENCE DWG.
REFERENCE DWG'S.
U.S. DEPARTMENT OF ENERGY
Waste Isolation Pilot Plant
PANEL CLOSURE SYSTEM

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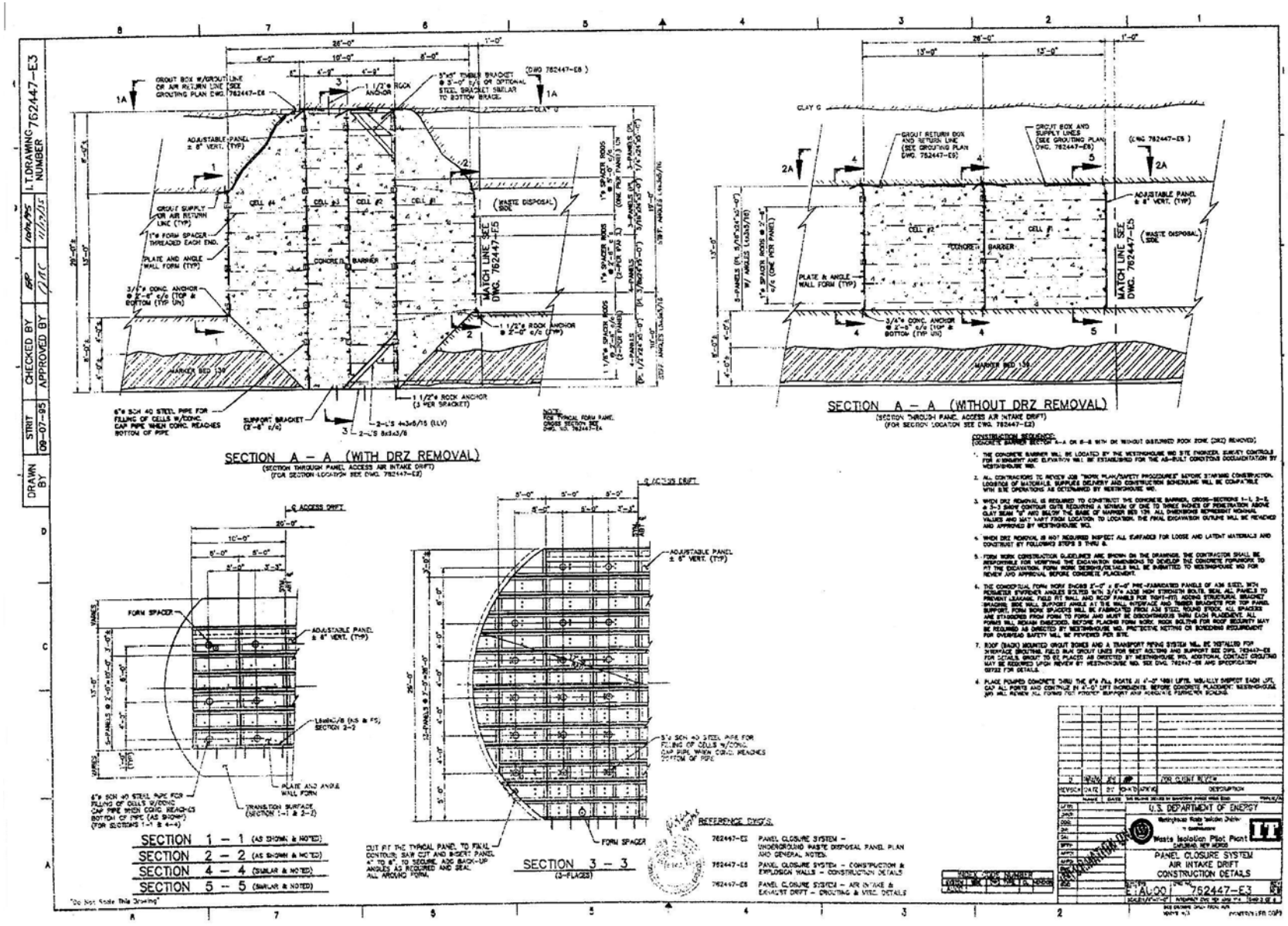
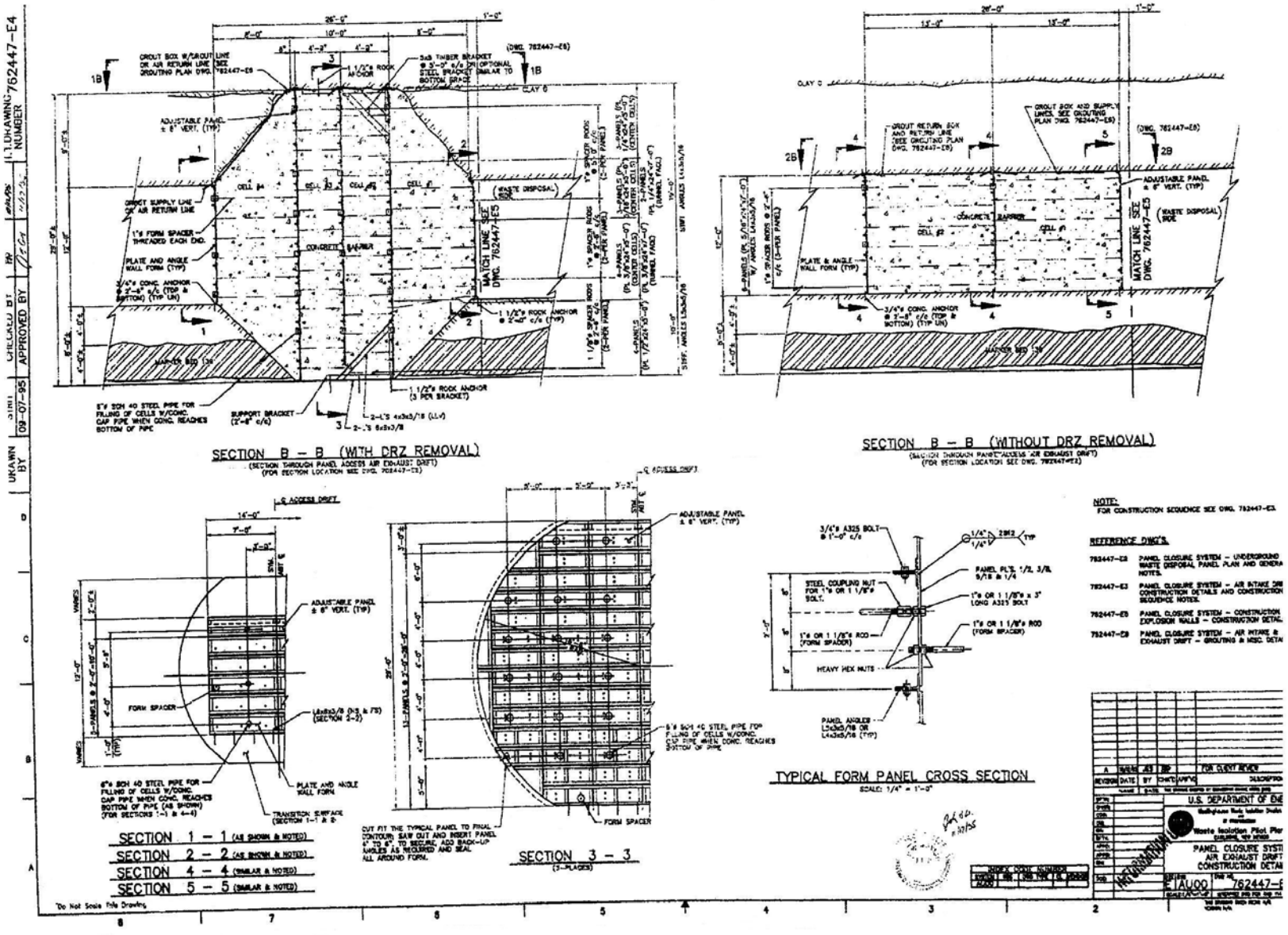
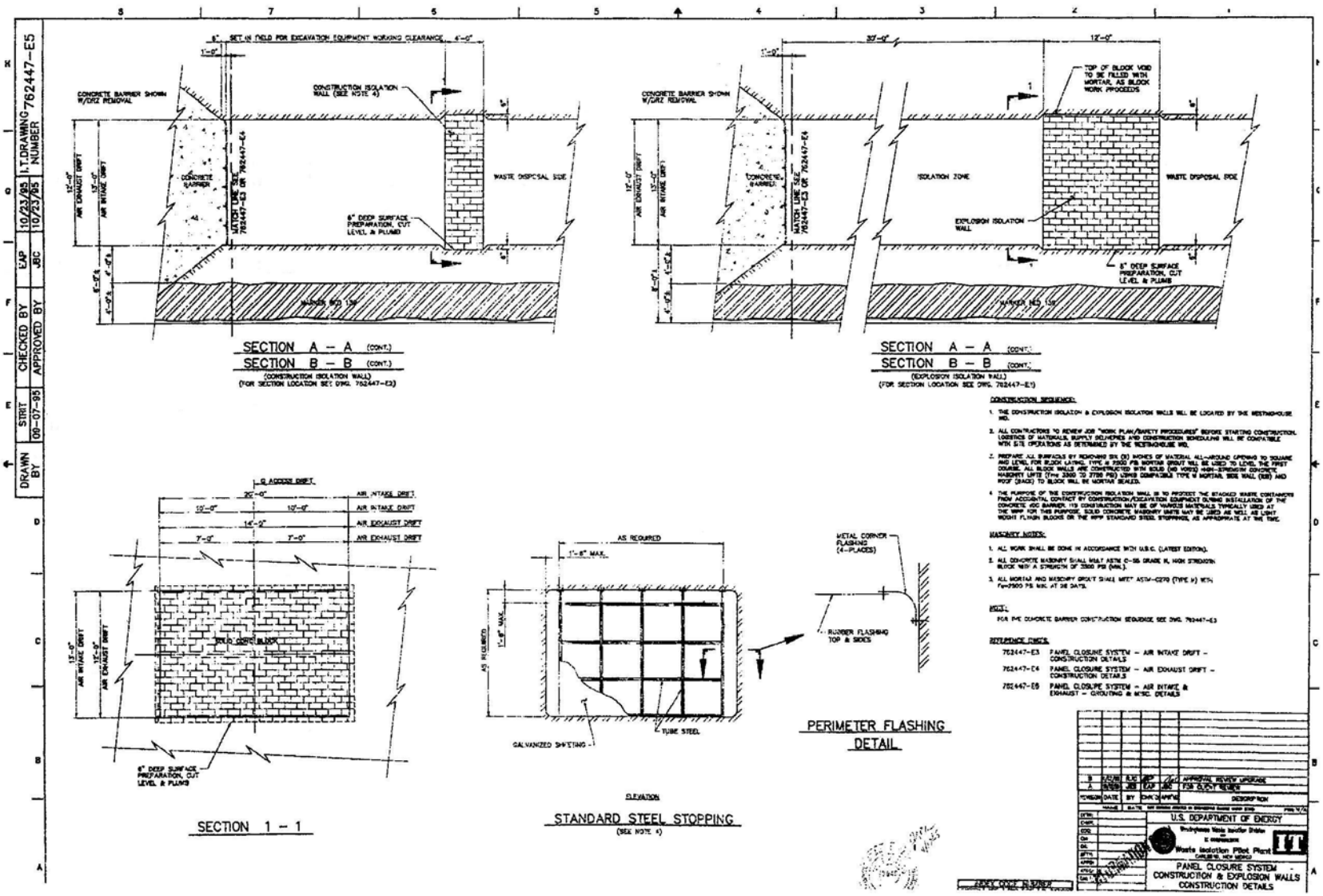

SECTION A – A (WITH DRZ REMOVAL)
SECTION A – A (WITHOUT DRZ REMOVAL)
SECTION 1 – 1 (AS SHOWN & NOTED)
SECTION 2 – 2 (AS SHOWN & NOTED)
SECTION 4 – 4 (SIMILAR & NOTED)
SECTION 5 – 5 (SIMILAR & NOTED)
SECTION 3 – 3
(3-PLACES)
U.S. DEPARTMENT OF ENERGY
Waste Isolation Pilot Plant
PANEL CLOSURE SYSTEM
AIR INTAKE DRIFT
CONSTRUCTION DETAILS
762447-E3


SECTION B – B (WITH DRZ REMOVAL)
SECTION B – B (WITHOUT DRZ REMOVAL)
TYPICAL FORM PANEL CROSS SECTION
SECTION 1 – 1 (AS SHOWN & NOTED)
SECTION 2 – 2 (AS SHOWN & NOTED)
SECTION 4 – 4 (SIMILAR & NOTED)
SECTION 5 – 5 (SIMILAR & NOTED)
SECTION 3 – 3
NOTE:
REFERENCE DWG'S
PANEL CLOSURE SYSTEM – AIR INTAKE & EXHAUST DRIFT – GROUTING & MISC. DETAI
U.S. DEPARTMENT OF ENE
Waste Isolation Pilot Plan
PANEL CLOSURE SYSTE
AIR EXHAUST DRIFT
CONSTRUCTION DETAI
762447-E
Do Not Scale this Drawing


SECTION A – A (CONT.)
SECTION B – B (CONT.)
(CONSTRUCTION ISOLATION WALL)
SECTION A – A (CONT.)
SECTION B – B (CONT.)
(EXPLOSION ISOLATION WALL)
SECTION 1 – 1
STANDARD STEEL STOPPING
PERIMETER FLASHING DETAIL
PANEL CLOSURE SYSTEM - CONSTRUCTION & EXPLOSION WALLS CONSTRUCTION DETAILS
U.S. DEPARTMENT OF ENERGY
Waste Isolation Pilot Plant

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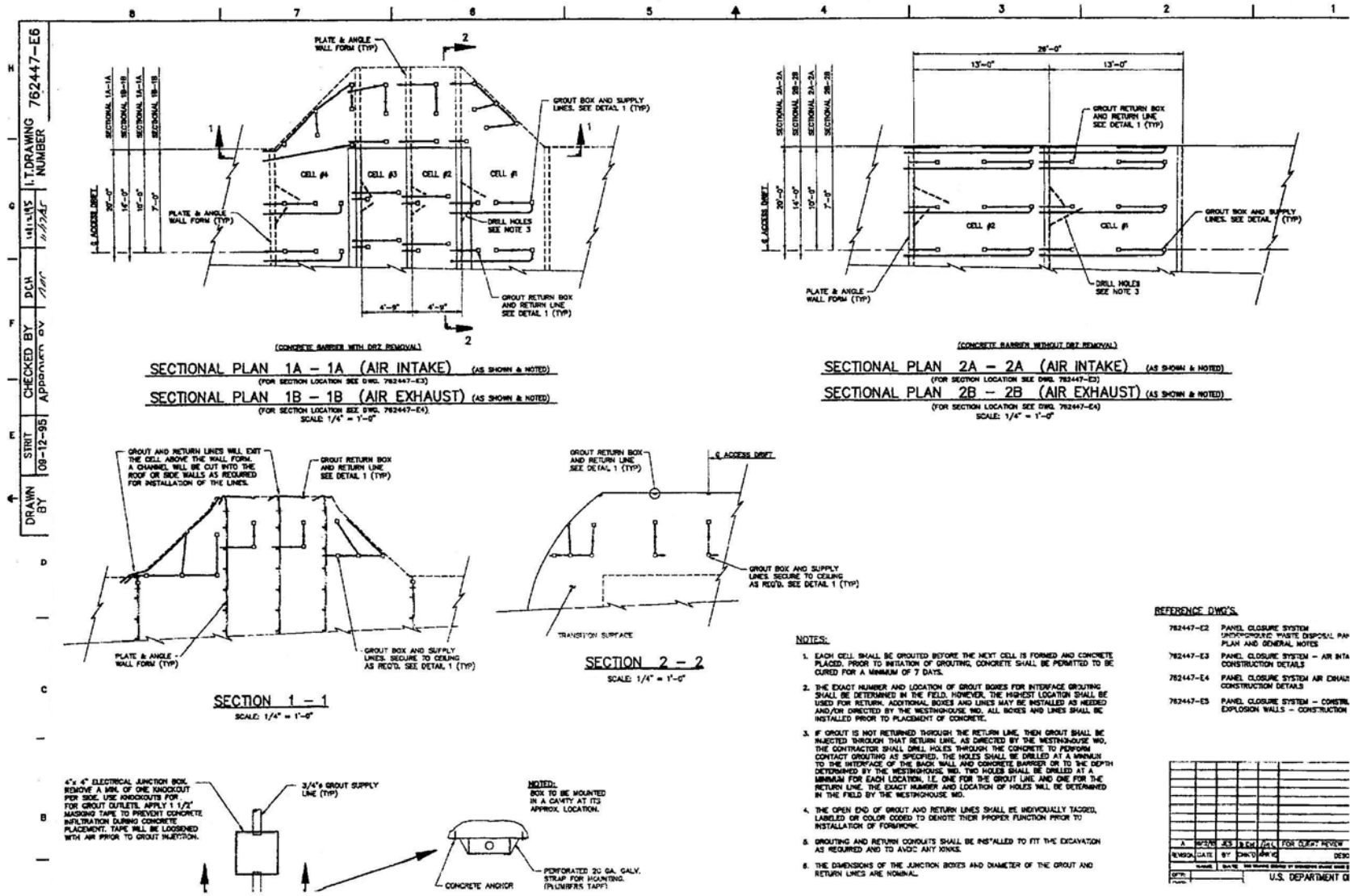
762447-E6
I.T. DRAWING NUMBER
DRAWN BY
STRIT
08-12-95
CHECKED BY
DCH
PLATE & ANGLE WALL FORM (TYP)
GROUT BOX AND SUPPLY LINES. SEE DETAIL 1 (TYP)
CELL #4
CELL #3
CELL #2
CELL #1
DRILL HOLES SEE NOTE 3
GROUT RETURN BOX AND RETURN LINE SEE DETAIL 1 (TYP)
SECTIONAL 1A-1A
SECTIONAL 1B-1B
SECTIONAL 2A-2A
SECTIONAL 2B-2B
SECTIONAL PLAN 1A - 1A (AIR INTAKE) (AS SHOWN & NOTED)
SECTIONAL PLAN 1B - 1B (AIR EXHAUST) (AS SHOWN & NOTED)
SECTIONAL PLAN 2A - 2A (AIR INTAKE) (AS SHOWN & NOTED)
SECTIONAL PLAN 2B - 2B (AIR EXHAUST) (AS SHOWN & NOTED)
SCALE: 1/4" = 1'-0"
GROUT AND RETURN LINES WILL EXIT THE CELL ABOVE THE WALL FORM. A CHANNEL WILL BE CUT INTO THE ROOF OR SIDE WALLS AS REQUIRED FOR INSTALLATION OF THE LINES.
SECTION 1 - 1
SECTION 2 - 2
TRANSITION SURFACE
4"x 4" ELECTRICAL JUNCTION BOX. REMOVE A MIN. OF ONE KNOCKOUT PER SIDE. USE KNOCKOUTS FOR FOR GROUT OUTLETS. APPLY 1 1/2" MASKING TAPE TO PREVENT CONCRETE INFILTRATION DURING CONCRETE PLACEMENT. TAPE WILL BE LOOSENED WITH AIR PRIOR TO GROUT INJECTION.
3/4"ø GROUT SUPPLY LINE (TYP)
CONCRETE ANCHOR
PERFORATED 20 GA. GALV. STRAP FOR MOUNTING. (PLUMBERS TAPE)
NOTES:
1. EACH CELL SHALL BE GROUTED BEFORE THE NEXT CELL IS FORMED AND CONCRETE PLACED. PRIOR TO INITIATION OF GROUTING, CONCRETE SHALL BE PERMITTED TO BE CURED FOR A MINIMUM OF 7 DAYS.
2. THE EXACT NUMBER AND LOCATION OF GROUT BOXES FOR INTERFACE GROUTING SHALL BE DETERMINED IN THE FIELD. HOWEVER, THE HIGHEST LOCATION SHALL BE USED FOR RETURN. ADDITIONAL BOXES AND LINES MAY BE INSTALLED AS NEEDED AND/OR DIRECTED BY THE WESTINGHOUSE WID. ALL BOXES AND LINES SHALL BE INSTALLED PRIOR TO PLACEMENT OF CONCRETE.
3. IF GROUT IS NOT RETURNED THROUGH THE RETURN LINE, THEN GROUT SHALL BE INJECTED THROUGH THAT RETURN LINE, AS DIRECTED BY THE WESTINGHOUSE WID, THE CONTRACTOR SHALL DRILL HOLES THROUGH THE CONCRETE TO PERFORM CONTACT GROUTING AS SPECIFIED. THE HOLES SHALL BE DRILLED AT A MINIMUM TO THE INTERFACE OF THE BACK WALL AND CONCRETE BARRIER OR TO THE DEPTH DETERMINED BY THE WESTINGHOUSE WID. TWO HOLES SHALL BE DRILLED AT A MINIMUM FOR EACH LOCATION, I.E. ONE FOR THE GROUT LINE AND ONE FOR THE RETURN LINE. THE EXACT NUMBER AND LOCATION OF HOLES WILL BE DETERMINED IN THE FIELD BY THE WESTINGHOUSE WID.
4. THE OPEN END OF GROUT AND RETURN LINES SHALL BE INDIVIDUALLY TAGGED, LABELED OR COLOR CODED TO DENOTE THEIR PROPER FUNCTION PRIOR TO INSTALLATION OF FORMWORK.
5. GROUTING AND RETURN CONDUITS SHALL BE INSTALLED TO FIT THE EXCAVATION AS REQUIRED AND TO AVOID ANY KINKS.
6. THE DIMENSIONS OF THE JUNCTION BOXES AND DIAMETER OF THE GROUT AND RETURN LINES ARE NOMINAL.
REFERENCE DWG'S.
762447-E2 PANEL CLOSURE SYSTEM UNDERGROUND WASTE DISPOSAL PAN PLAN AND GENERAL NOTES
762447-E3 PANEL CLOSURE SYSTEM - AIR INTA CONSTRUCTION DETAILS
762447-E4 PANEL CLOSURE SYSTEM AIR EXHAU CONSTRUCTION DETAILS
762447-E5 PANEL CLOSURE SYSTEM - CONSTRU EXPLOSION WALLS - CONSTRUCTION
A INITIAL JES 9 DEC FOR CLIENT REVIEW
REVISION DATE BY CHK'D APP'D DESC
U.S. DEPARTMENT O

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