ATTACHMENT ~~I~~ G1
APPENDIX H

DESIGN DRAWINGS

PANEL CLOSURE SYSTEM
WASTE ISOLATION PILOT PLANT
CARLSBAD, NEW MEXICO

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ATTACHMENT~~I~~ 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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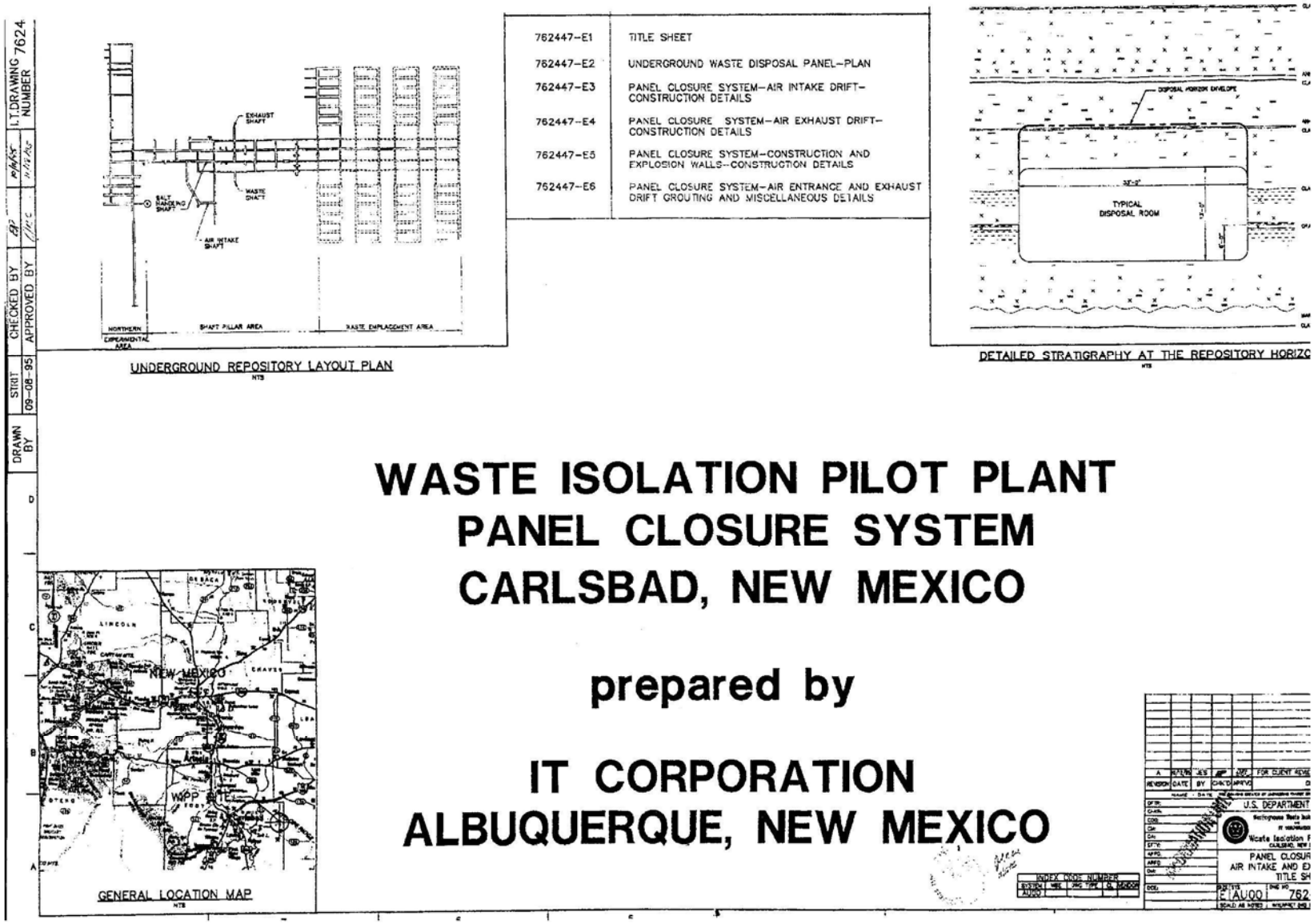
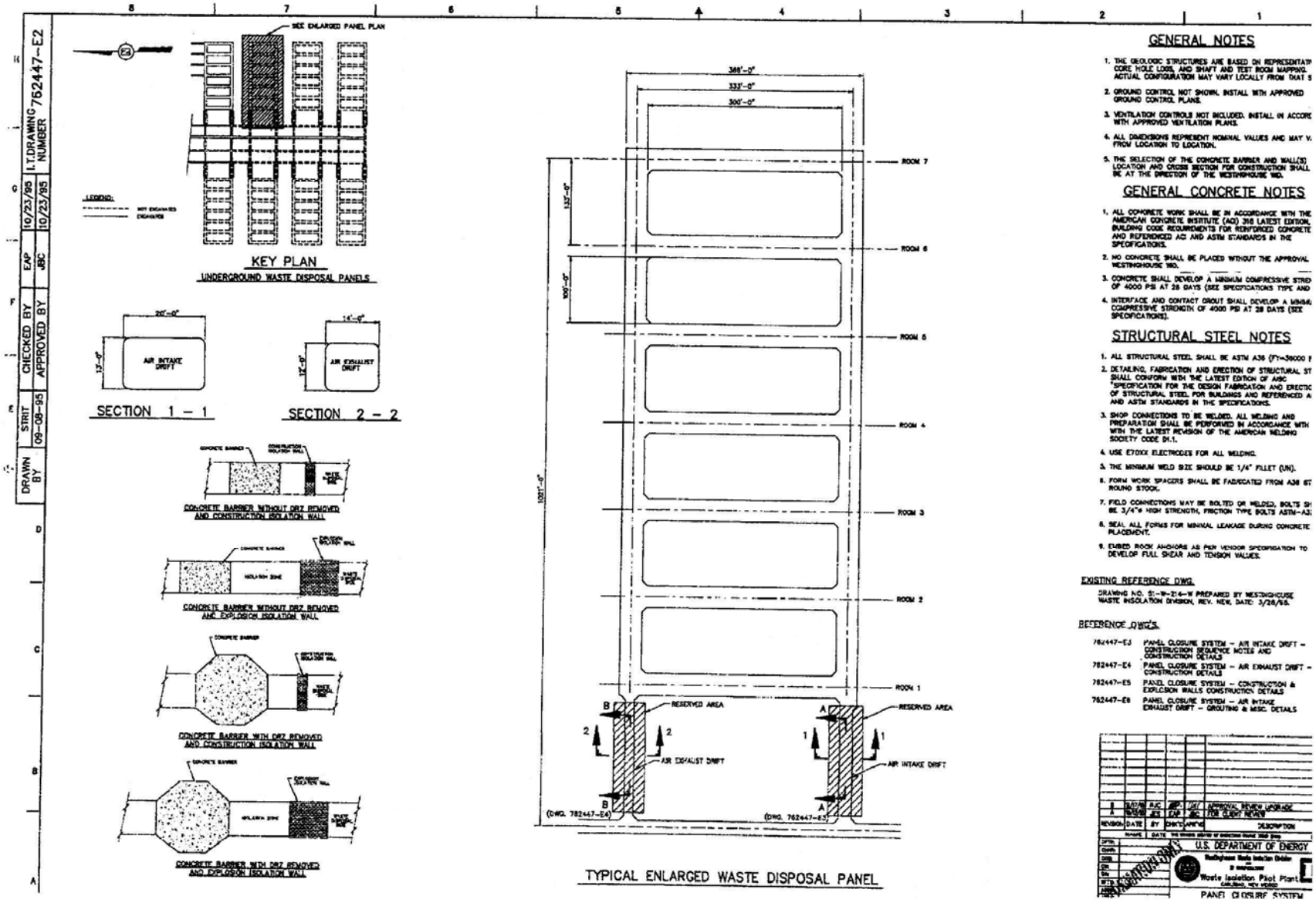
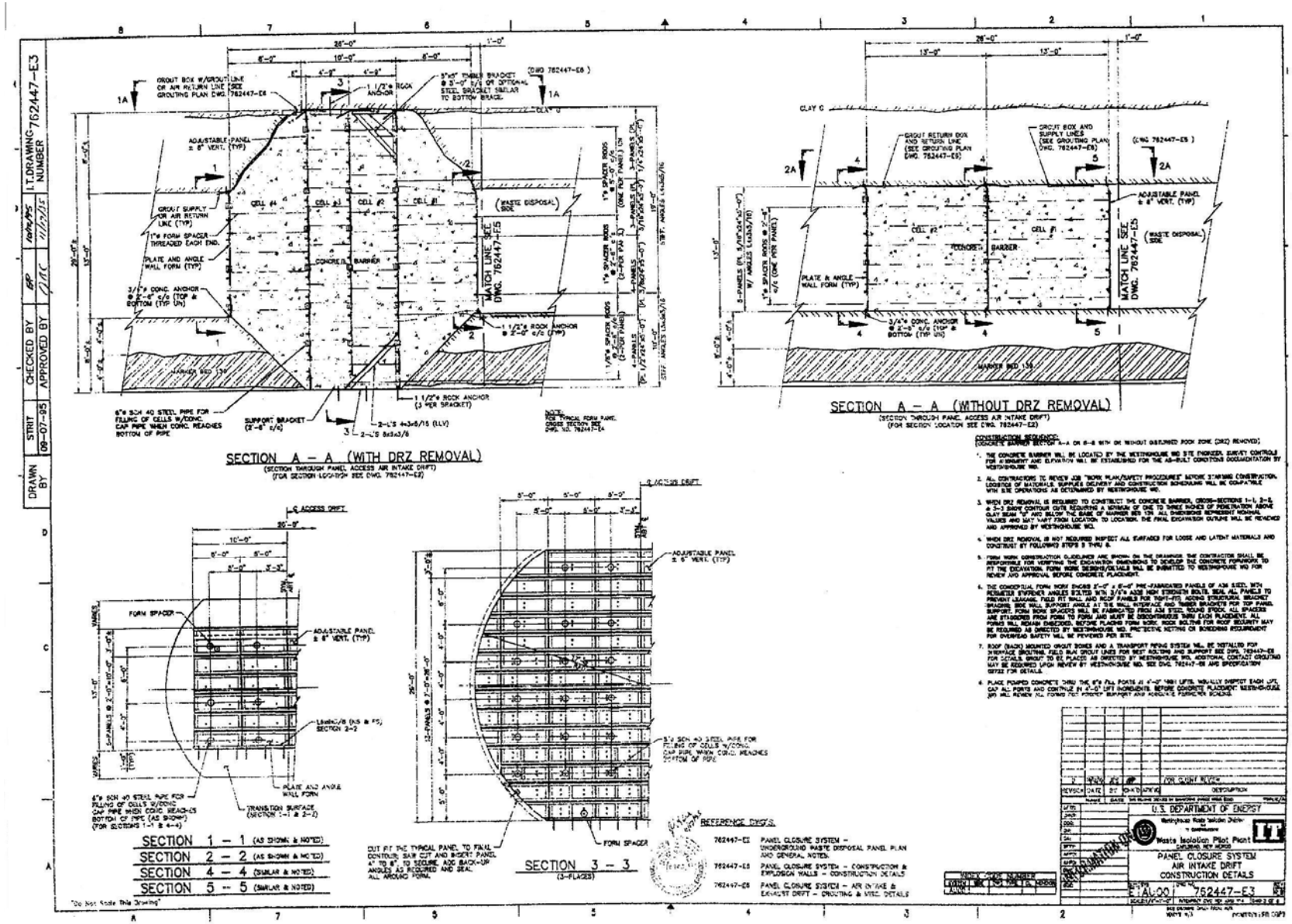
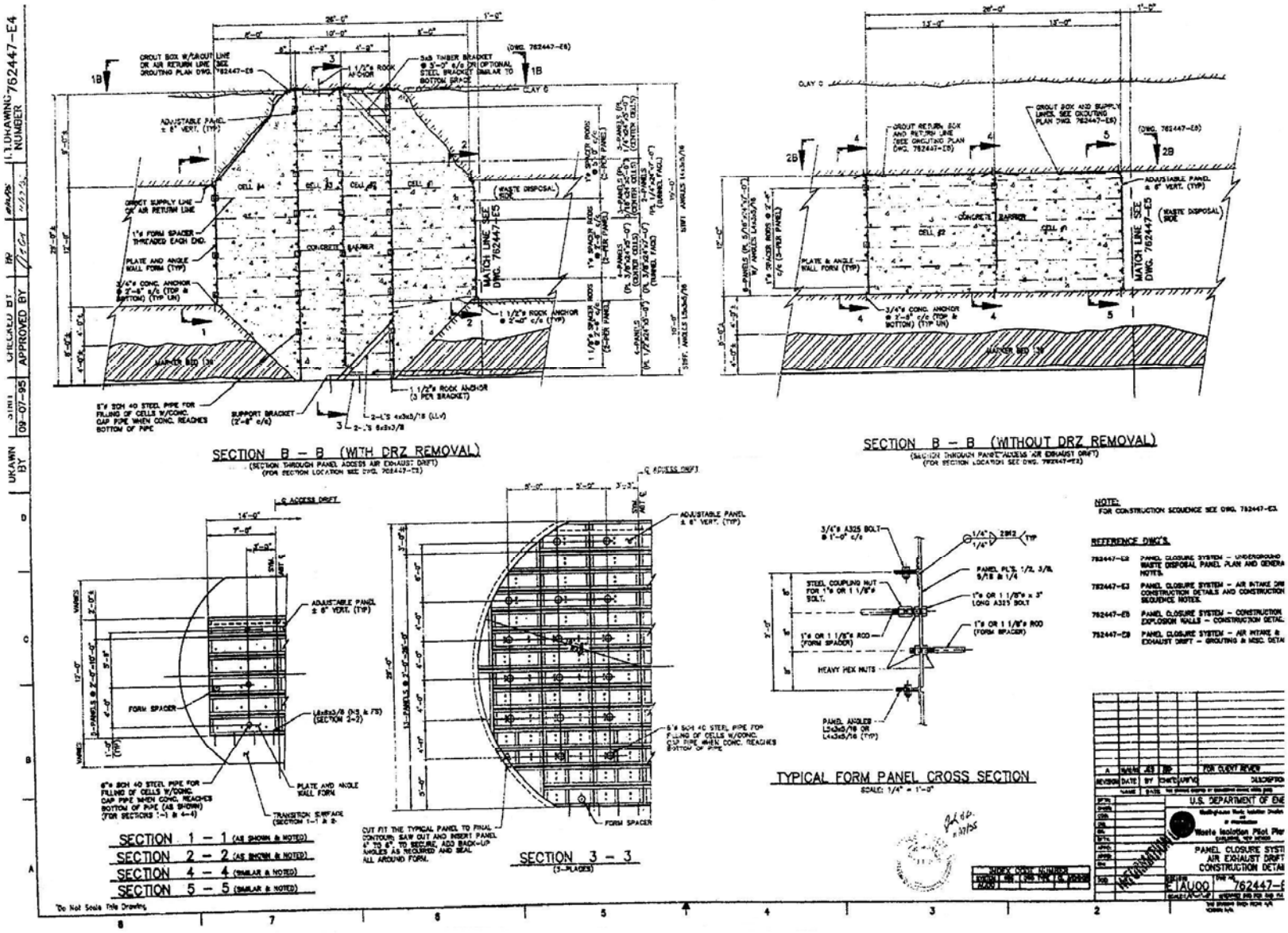

I.T. DRAWING NUMBER 7624
CHECKED BY
APPROVED BY
STRIT 09-08-95
DRAWN BY
EXHAUST SHAFT
WASTE SHAFT
SALT HANDLING SHAFT
AIR INTAKE SHAFT
NORTHERN EXPERIMENTAL AREA
SHAFT PILLAR AREA
WASTE EMPLACEMENT AREA
UNDERGROUND REPOSITORY LAYOUT PLAN
NTS
762447-E1 TITLE SHEET
762447-E2 UNDERGROUND WASTE DISPOSAL 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
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
NTS
U.S. DEPARTMENT
PANEL CLOSUR
AIR INTAKE AND E
TITLE SH
INDEX CODE NUMBER

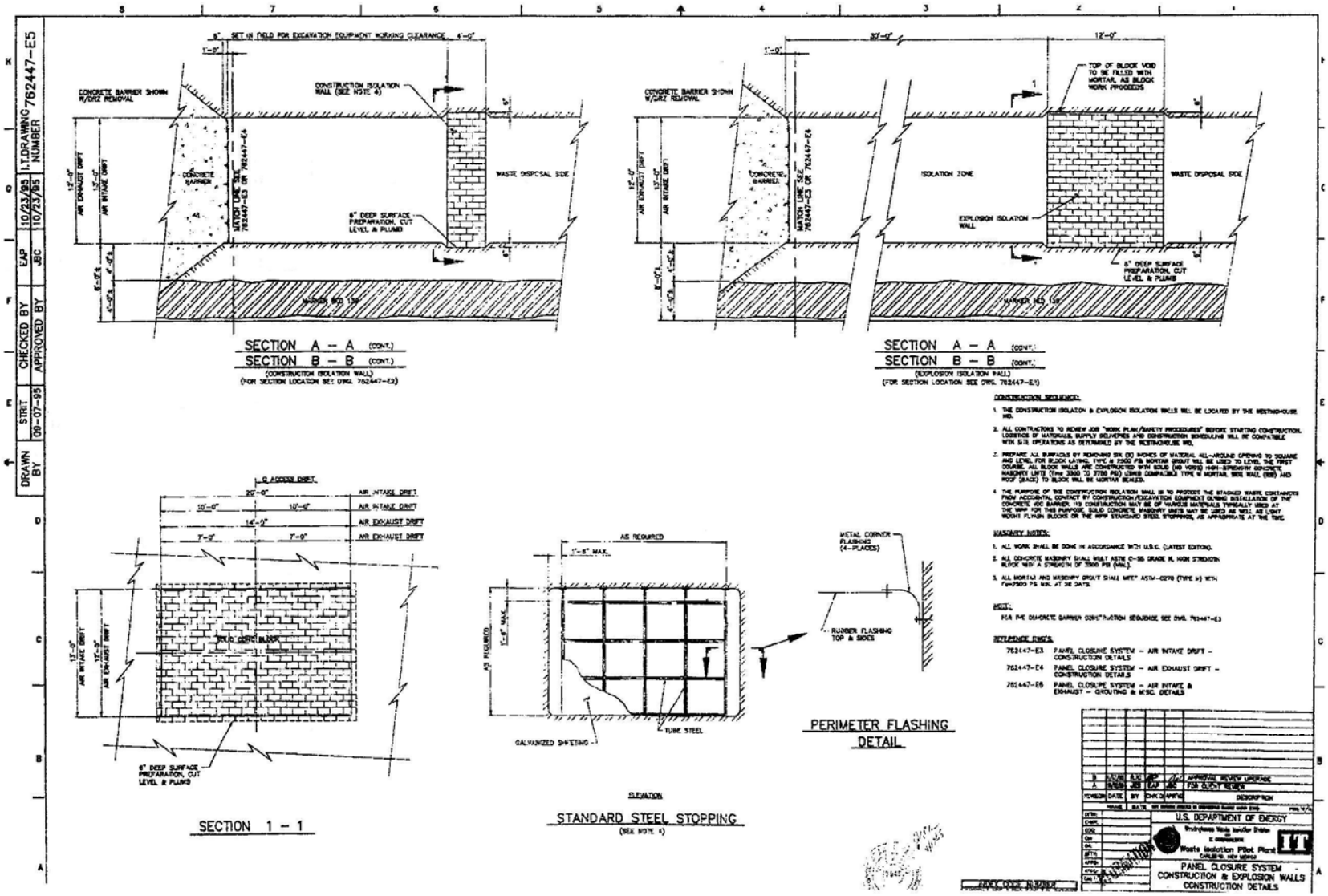
1


KEY PLAN
UNDERGROUND WASTE DISPOSAL PANELS
SEE ENLARGED PANEL PLAN
SECTION 1 – 1
SECTION 2 – 2
AIR INTAKE DRIFT
AIR EXHAUST DRIFT
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
TYPICAL ENLARGED WASTE DISPOSAL PANEL
RESERVED AREA
AIR EXHAUST DRIFT
AIR INTAKE DRIFT
(DWG. 782447-E4)
(DWG. 782447-E3)
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
DRAWN BY
CHECKED BY
APPROVED BY
I.T. DRAWING NUMBER 762447-E2

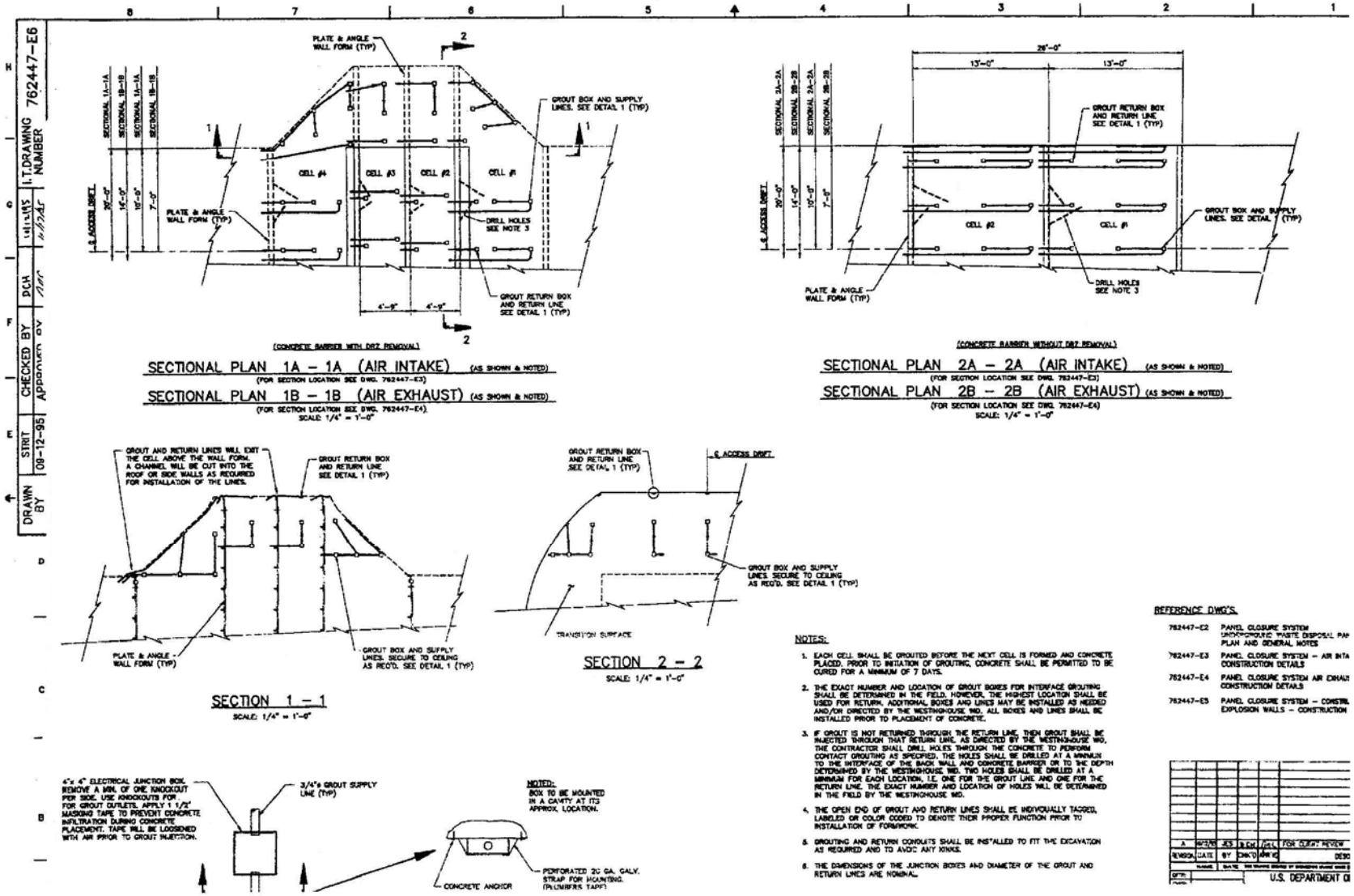
1


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
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
Do Not Scale This Drawing
U.S. DEPARTMENT OF ENE
PANEL CLOSURE SYSTE
AIR EXHAUST DRIFT
CONSTRUCTION DETAI
762447-E


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
U.S. DEPARTMENT OF ENERGY
PANEL CLOSURE SYSTEM
CONSTRUCTION & EXPLOSION WALLS
CONSTRUCTION DETAILS

1


SECTIONAL PLAN 1A – 1A (AIR INTAKE) (AS SHOWN & NOTED)
(FOR SECTION LOCATION SEE DWG. 762447-E3)
SECTIONAL PLAN 1B – 1B (AIR EXHAUST) (AS SHOWN & NOTED)
(FOR SECTION LOCATION SEE DWG. 762447-E4)
SCALE: 1/4" = 1'-0"
SECTIONAL PLAN 2A – 2A (AIR INTAKE) (AS SHOWN & NOTED)
(FOR SECTION LOCATION SEE DWG. 762447-E3)
SECTIONAL PLAN 2B – 2B (AIR EXHAUST) (AS SHOWN & NOTED)
(FOR SECTION LOCATION SEE DWG. 762447-E4)
SCALE: 1/4" = 1'-0"
SECTION 1 – 1
SCALE: 1/4" = 1'-0"
SECTION 2 – 2
SCALE: 1/4" = 1'-0"
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
762447-E3 PANEL CLOSURE SYSTEM – AIR INTA
762447-E4 PANEL CLOSURE SYSTEM AIR EXHAU
762447-E5 PANEL CLOSURE SYSTEM – CONSTRU
U.S. DEPARTMENT O
762447-E6

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