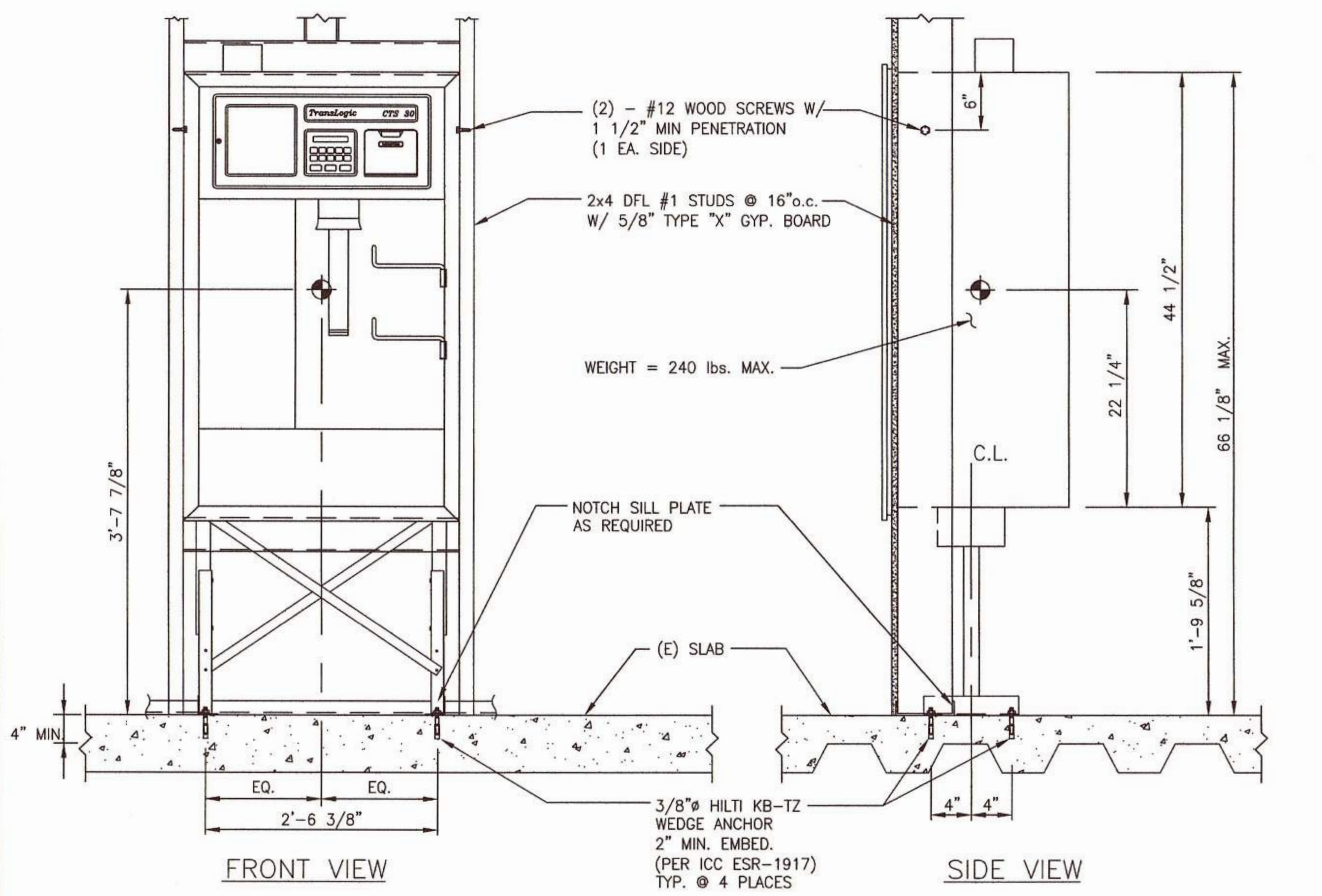
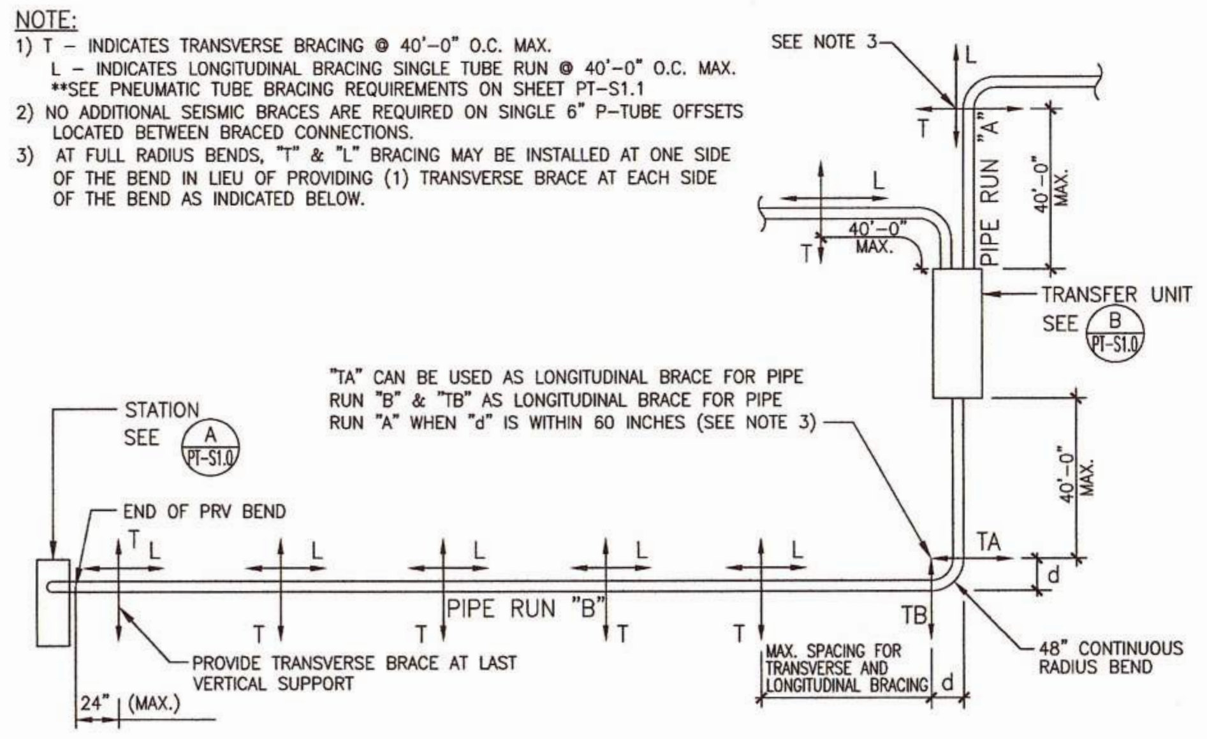


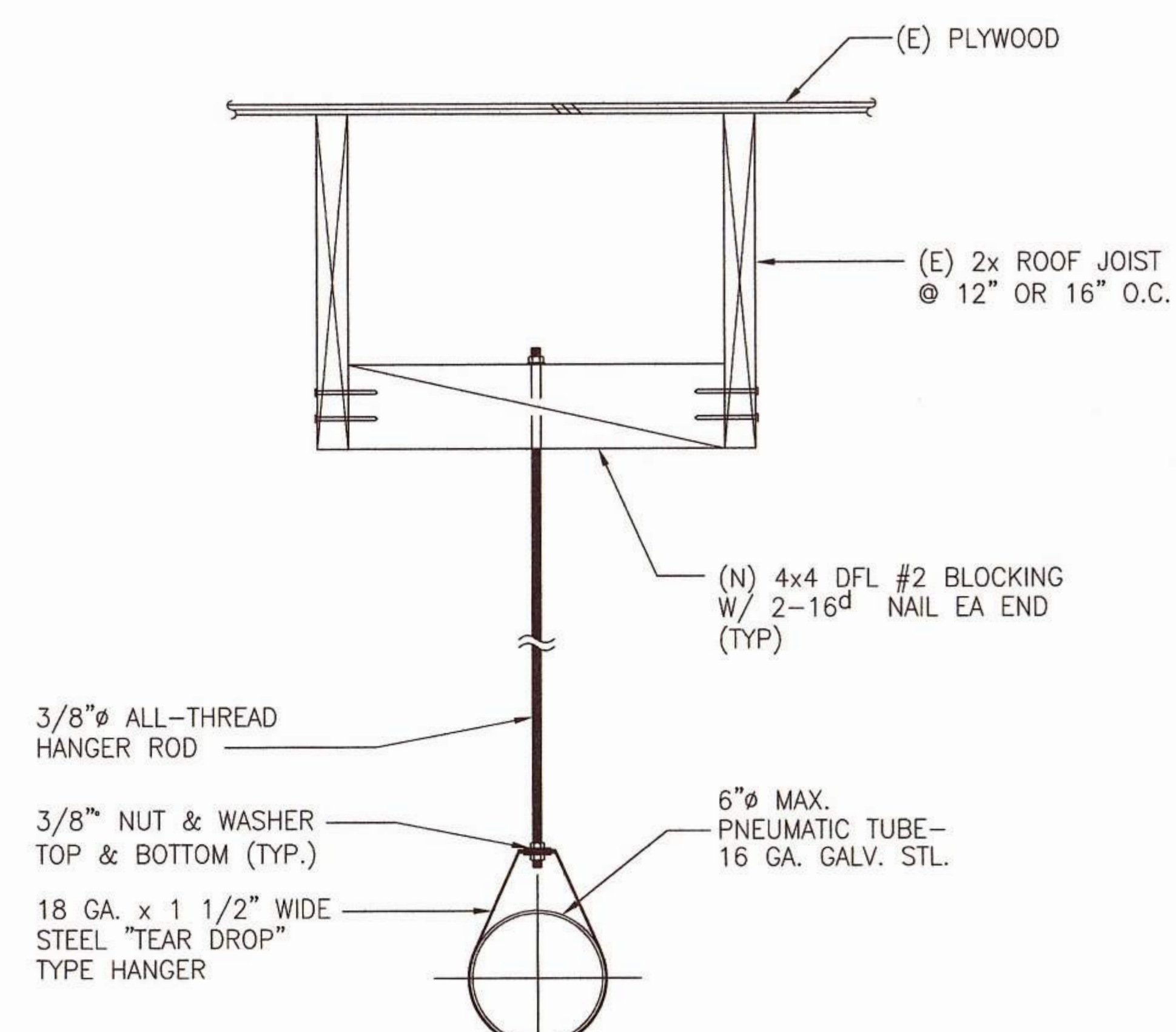
STATION ANCHORAGE DETAIL (A / PT-S1.0)

NOTE:

1) T – INDICATES TRANSVERSE BRACING @ 40'–0" O.C. MAX.
   L – INDICATES LONGITUDINAL BRACING SINGLE TUBE RUN @ 40'–0" O.C. MAX.
   **SEE PNEUMATIC TUBE BRACING REQUIREMENTS ON SHEET PT–S1.1
2) NO ADDITIONAL SEISMIC BRACES ARE REQUIRED ON SINGLE 6" P–TUBE OFFSETS LOCATED BETWEEN BRACED CONNECTIONS.
3) AT FULL RADIUS BENDS, "T" & "L" BRACING MAY BE INSTALLED AT ONE SIDE OF THE BEND IN LIEU OF PROVIDING (1) TRANSVERSE BRACE AT EACH SIDE OF THE BEND AS INDICATED BELOW.



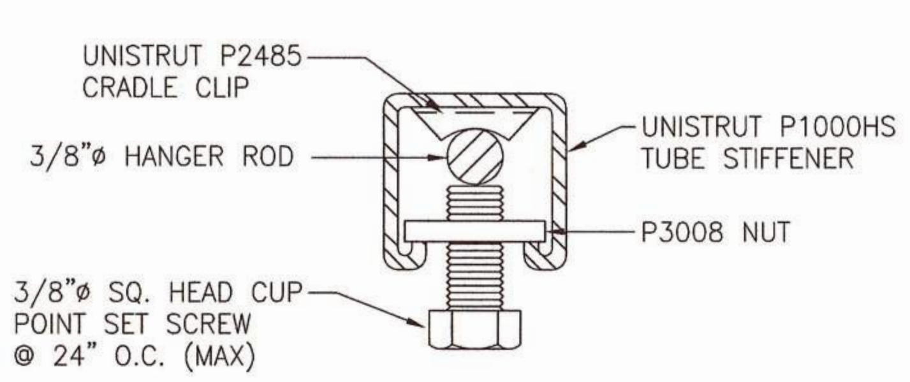
TYP. LOCATION OF LATERAL BRACING FOR PNEUMATIC TUBES (E / PT-S1.0)



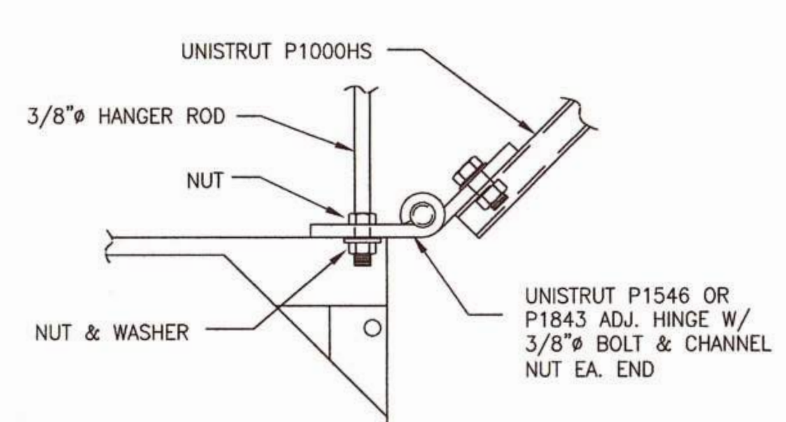
NOTE:

1) PROVIDE VERTICAL SUPPORT AT 10'–0" O.C. (MAX)
2) PT SUPPORTED 12 INCHES OR LESS IN LENGTH FROM THE TOP OF THE PIPE TO THE BOTTOM OF STRUCTURAL SUPPORT SHALL NOT NEED LONGITUDINAL & TRANSVERSE BRACE.
3) DO NOT INSTALL AT JOISTS SUPPORTING MECHANICAL UNITS OR JOISTS HEADED OFF BY MECHANICAL UNITS.
4) CENTER THE VERTICAL ROD IN THE MIDDLE OF THE BLOCKING. OTHERWISE, PROVIDE DOUBLE JOIST TO REINFORCE THE EXISTING ROOF STRUCTURE BY OTHERS.

DETAIL @ TYP. TUBE SUPPORT (F / PT-S1.0)



ROD STIFFENER DETAIL (G / PT-S1.0)



DETAIL (H / PT-S1.0)

GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY DIMENSIONS, CONDITIONS AND ELEVATIONS BEFORE STARTING WORK.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH OSHA CONSTRUCTION SAFETY ORDERS. APPROVAL OF SHOP DRAWINGS BY THE ARCHITECT OR STRUCTURAL ENGINEER SHALL NOT BE CONSTRUED AS ACCEPTING THIS RESPONSIBILITY.
3. ALL STRUCTURAL FRAMING MEMBERS SHALL BE ADEQUATELY SHORED AND BRACED DURING ERECTION AND UNTIL FULL VERTICAL AND LATERAL SUPPORT IS PROVIDED BY ADJOINING MEMBERS.
4. THE TYPICAL NOTES AND DETAILS SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY DETAILED ELSEWHERE. WHERE NO DETAIL IS SHOWN, CONSTRUCTION SHALL BE AS SHOWN FOR OTHER SIMILAR WORK AND AS REQUIRED BY BUILDING CODE.
5. GOVERNING CODE: 2010 CALIFORNIA BUILDING CODE (CBC) – TITLE 24 PART 2
6. SEISMIC FACTORS: SPECTRAL ACCELERATION, SHORT PERIOD (SDS =1.0) (SMS = 1.5), MAPPED SPECTRAL RESPONSE ACCELERATION AT SHORT PERIODS (SS = 1.5), SHORT PERIOD SITE COEFFICIENT AT 0.2 second PERIOD (Fa=1.0), SITE CLASS = D, SEISMIC DESIGN CATEGORY = D, COMPONENT AMP. FACTOR (ap=2.5), COMPONENT IMPORTANCE FACTOR (Ip=1.5), COMPONENT RESP. MOD. FACTOR (Rp=6).
7 SEE SPECIFICATIONS FOR MATERIALS AND WORKMANSHIP REQUIREMENTS.
8. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATION OF OPENINGS OR SUPPORTS FOR THEIR RESPECTIVE ITEMS. NOTIFY ARCHITECT, PRIOR TO CONSTRUCTION OF ANY INTERFERENCE OR INCOMPATIBILITY.

MATERIALS

STRUCTURAL STEEL

A. MATERIAL SPECIFICATIONS
   1. BEAM SHAPES, BARS, PLATES – ASTM A36 UNLESS NOTED OTHERWISE.
   2. BOLTS – ASTM A307 UNLESS NOTED OTHERWISE.

CONCRETE (EXISTING)

1. ALL SLABS ARE HARDROCK CONCRETE WITH MINIMUM 3000 PSI, UNLESS NOTED OTHERWISE.
2. ALL METAL DECKS ARE MINIMUM 3" METAL DECKING W/ MINIMUM 3" LIGHT WEIGHT CONCRETE FILL. CONCRETE IS MINIMUM 3000 PSI (UNLESS NOTED OTHERWISE).

TYPICAL EXPANSION ANCHOR NOTES

TESTS AND INSPECTIONS

INSPECTIONS: SPECIAL INSPECTIONS SHALL BE DONE IN ACCORDANCE THE STATEMENT OF SPECIAL INSPECTIONS PER CBC 1704 AND 1705. FOUNDATIONS, FOOTINGS, UNDER SLAB SYSTEMS AND FRAMING ARE SUBJECT TO INSPECTION BY THE BUILDING OFFICIAL IN ACCORDANCE WITH CBC 110.3. CONTRACTOR SHALL COORDINATE ALL REQUIRED INSPECTIONS WITH THE BUILDING OFFICIAL.

POST–INSTALLED ANCHORS INTO CONCRETE: SHALL COMPLY WITH CBC SECTION 1703. INSPECTIONS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH IN THE APPROVED ICC EVALUATION REPORT AND AS INDICATED BY THE DESIGN REQUIREMENTS SPECIFIED ON THE DRAWINGS. REFER TO THE POST INSTALLED ANCHORS SECTION OF THESE NOTES FOR ANCHORS THAT ARE THE BASIS OF THE DESIGN. SPECIAL INSPECTOR SHALL VERIFY ANCHORS ARE AS SPECIFIED IN THE POST INSTALLED ANCHORS SECTION OF THESE NOTES OR AS OTHERWISE SPECIFIED ON THE DRAWINGS. SUBSTITUTIONS REQUIRE APPROVAL BY THE SER AND REQUIRE SUBSTANTIATING CALCULATIONS AND CURRENT 2010 CBC RECOGNIZED ICC EVALUATION SERVICES (ES) REPORT. SPECIAL INSPECTOR SHALL DOCUMENT IN THEIR SPECIAL INSPECTION REPORT COMPLIANCE WITH EACH OF THE ELEMENTS REQUIRED WITHIN THE APPLICABLE ICC EVALUATION SERVICES (ES) REPORT.

POST–INSTALLED ANCHORS INTO CONCRETE

DESIGN STANDARDS:
POST–INSTALLED ANCHORS INTO CONCRETE FOR THIS PROJECT ARE DESIGNED IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE, ACI 318–08, APPENDIX D SPECIFICATIONS.

POST–INSTALLED ANCHORS: INSTALL ONLY WHERE SPECIFICALLY SHOWN IN THE DETAILS OR ALLOWED BY SER. ALL POST–INSTALLED ANCHORS TYPES AND LOCATIONS SHALL BE APPROVED BY THE SER AND SHALL HAVE A CURRENT ICC–EVALUATION SERVICE REPORT THAT PROVIDES RELEVANT DESIGN VALUES NECESSARY TO VALIDATE THE AVAILABLE STRENGTH EXCEEDS THE REQUIRED STRENGTH. SUBMIT CURRENT MANUFACTURER'S DATA AND ICC ESR REPORT TO SER OF FOR ALTERNATES AND ALL NON PRE–APPROVED ANCHORS TO SER FOR APPROVAL. ANCHORS SHALL BE INSTALLED IN STRICT ACCORDANCE TO ICC–ESR AND MANUFACTURERS INSTRUCTIONS. SPECIAL INSPECTION SHALL BE PER THE TESTS AND INSPECTIONS SECTION. ANCHOR TYPE, DIAMETER AND EMBEDMENT SHALL BE AS INDICATED ON DRAWINGS.

1. EXPANSION ANCHORS: THE FOLLOWING EXPANSION TYPE ANCHORS ARE PRE–APPROVED FOR ANCHORAGE TO CONCRETE IN ACCORDANCE WITH CORRESPONDING CURRENT ICC ESR REPORT:
   a. HILTI "KWIK BOLT TZ" – ICC ESR–1917

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RESPONSIBLE FOR PNEUMATIC TUBE SYSTEM ANCHORAGE AND BRACING ONLY

ISSUE SCHEDULE:	△	DATE:
CHANGE ORDER #11	18	05/29/14

Office of Statewide Health Planning and Development Facilities Development Division * APPROVED * FOR COMPLIANCE WITH ... CALIFORNIA CODE OF REGULATIONS ... IS SUBJECT TO FIELD ... BY DXK DATE 7-10-14 ACP0012

OSHPD PROJECT NO. HS101819–48

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PHARMACY/MICROBIOLOGY RENOVATON

DRAWING TITLE

PTS EQUIPMENT ANCHORAGE PNEUMATIC TUBE ANCH. SEISMIC BRACING

SCALE: N.T.S.
PROJECT NO: 33040.00
DRAWN BY: JA
CHECKED BY: –

SHEET NO: PT-S1.0 (18)

14081–0053 PTS10–S11.dwg 1–Jul–14 3:13 PM jbresee

DPR CONSTRUCTION
AS-BUILT DRAWINGS