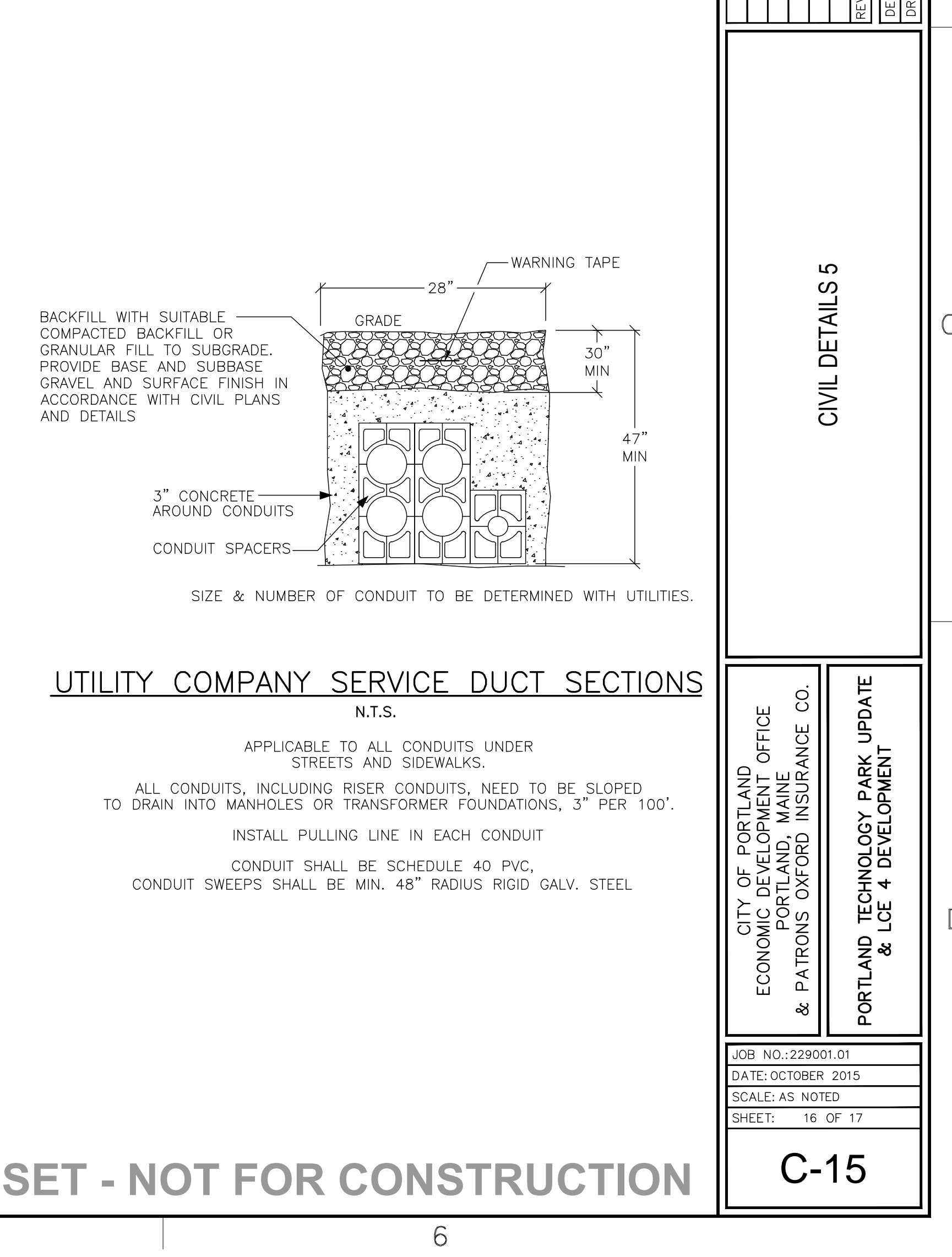
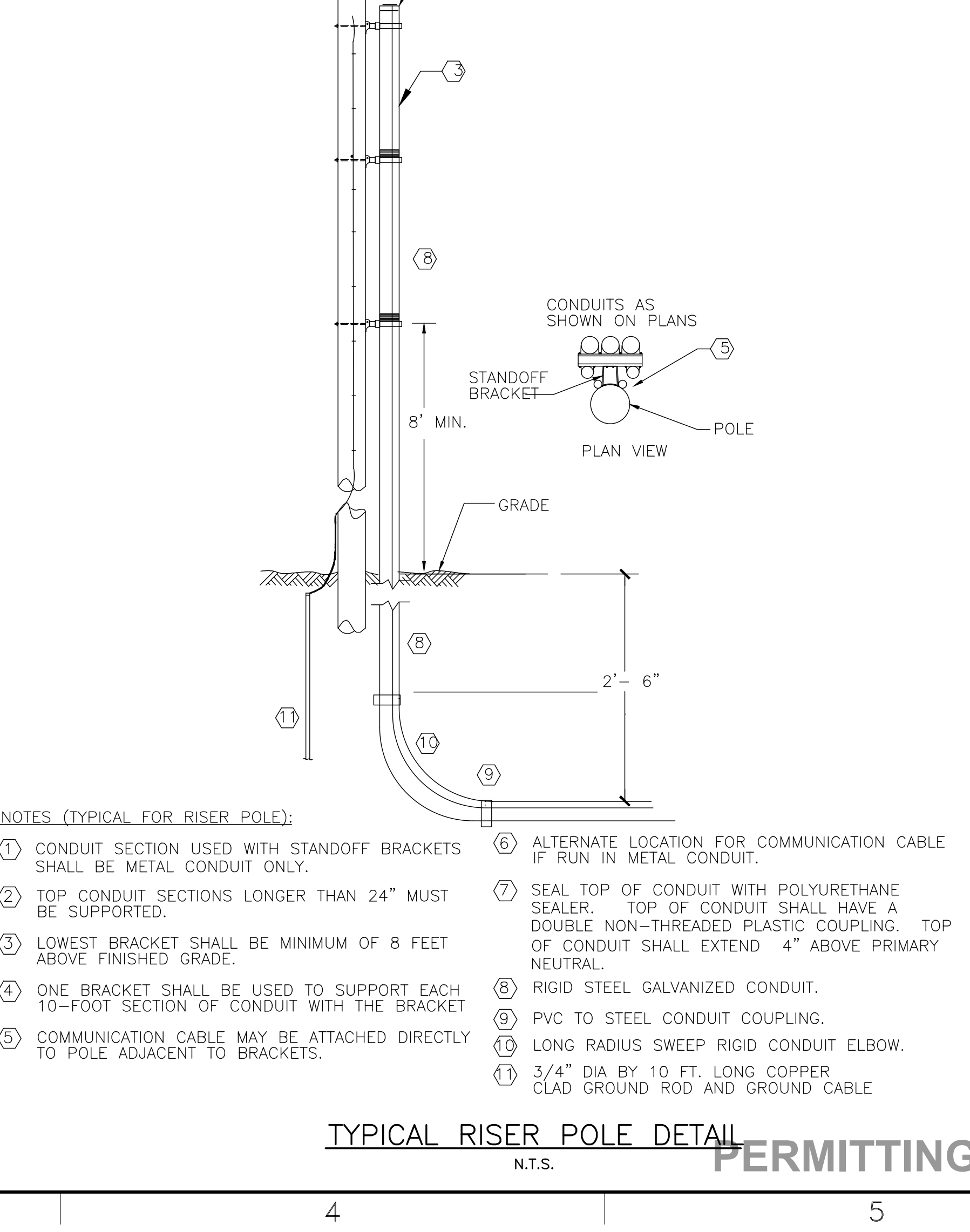


NOTES (TYPICAL FOR ELEC MANHOLES):

- CONCRETE: 4,000 PSI @ 28 DAYS.
- USE 32" COVER AND FRAME MARKED CMPCo. MINIMUM ONE COURSE BRICK TO GRADE.
- MOUNTINGS FOR CABLE RACKS ETC. CAST IN WALL BY FURTHER PLANS OR FIELD LOCATED.
- MANHOLE SHALL BE SET ON A MIN. 12" OF 3/4" CRUSHED STONE.
- REINFORCING: GRADE 60 REBAR:
 - REINFORCEMENT PLACED IN CENTER OF CONCRETE SLAB, WALLS, & ROOF.
 - #4 @ 5" O.C. VERTICALLY IN WALLS, CANTILEVERED OVER TOP OF OPENING.
 - #4 @ 8" O.C. HORIZONTALLY IN WALLS.
 - 4 PIECES #4 SURROUNDING OPENING.
 - #4 @ 5" O.C. EACH WAY ON TOP.
- VAULT SHALL BE DESIGNED TO WITHSTAND H20 WHEEL LOADING WITH 6 INCHES OF OVERBURDEN. THE DESIGN SHALL ALSO COMPLY WITH THE STRENGTH REQUIREMENTS OF NATIONAL ELECTRICAL SAFETY CODE SECTION 323A. PROVIDE SHOP DRAWINGS STAMPED BY A STATE OF MAINE REGISTERED PROFESSIONAL ENGINEER.
- MANHOLE FRAMES AND COVERS ARE TO BE MACHINED TO A SMOOTH FIT AND SHALL BE OF GRAY CAST IRON.
- COVER SHALL HAVE DIAMOND TOP SURFACE.
- JOINTS SHALL BE SEALED WITH ASPHALT
- CABLES SHALL BE RACKED ALONG ONE WALL ONLY
- CONDUITS ENTERING CONCRETE STRUCTURES SHALL BE SET BACK FROM THE INSIDE WALL 1 TO 2 INCHES AND THE SPACE WITHIN THE KNOCKOUT SURROUNDING THE CONDUITS COMPLETELY FILLED WITH MORTAR TO PREVENT SOIL OR GROUNDWATER FROM ENTERING STRUCTURE. INSIDE THE STRUCTURE THE MORTAR SHALL BE FINISHED AND BEVELED FROM THE CONDUIT ENDS TO THE INSIDE WALL FACE TO COVER AND SMOOTH THE EDGES OF THE KNOCKOUT.



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DAVID SENIUS
10791
REGISTERED PROFESSIONAL ENGINEER
MAINE

10/2/2015

REV	DESCRIPTION	DATE
DESIGNED BY: ACA/LUS	CHECKED BY: DAS	
DRAWN BY: JBC	Z2800-C-15.dwg	

CIVIL DETAILS 5

CITY OF PORTLAND
ECONOMIC DEVELOPMENT OFFICE
PORTLAND, MAINE
& PATRONS OXFORD INSURANCE CO.

PORTLAND TECHNOLOGY PARK UPDATE
& LCE 4 DEVELOPMENT

JOB NO.: 229001.01
DATE: OCTOBER 2015
SCALE: AS NOTED
SHEET: 16 OF 17

C-15

PERMITTING SET - NOT FOR CONSTRUCTION

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