## STRUCTURAL NOTES

REQUIRED BEARING CAPACITIES ARE AS FOLLOWS:

WALL FOOTINGS ON NATIVE SOIL: 3,000 PSF WALL FOOTINGS ON COMPACTED BACKFILL: 3,000 PSF

ALL FOUNDATION EXCAVATIONS SHALL BE INSPECTED BY THE PARK DISTRICTS GEOTECHNICAL TESTING FIRM. ALL BEARING VALUES AND FOUNDATION ELEVATIONS ARE TO BE SUBMITTED TO THE ENGINEER FOR THE RECORD.

SOILS UNDER ALL BEARING AREAS ON FOOTINGS SHALL BE COMPACTED TO THE MINIMUM 95% PER ASTM D-1551 AT

NO VEHICULAR CONSTRUCTION EQUIPMENT SHALL BE PERMITTED WITHIN A DISTANCE EQUAL TO THE EXPOSED HEIGHT FROM THE BACK FACE OF ALL RETAINING WALLS DURING OR AFTER BACKFILLING.

A DEPOSIT OF GRAVEL OR BROKEN STONE SHALL BE PLACED BEHIND WALL DRAIN HOLES WRAPPED IN A DOUBLE LAYER OF GEOTECHNICAL FABRIC.

ALL CAST-IN-PLACE CONCRETE SHALL OBTAIN A MINIMUM COMPRESSIVE STRENGTH OF 4000 psi IN 28 DAYS FOR FOOTINGS, SLABS AND WALLS. ALL EXPOSED CONCRETE SHALL BE AIR ENTRAINED 5% TO 7% BY VOLUME

ALL CAST-IN-PLACE CONCRETE SHALL OBTAIN A MINIMUM COMPRESSIVE STRENGTH OF 3500 psi IN 28 DAYS FOR SIDEWALK, AND PAVEMENTS. ALL EXPOSED CONCRETE SHALL BE AIR ENTRAINED 5% TO 7% BY VOLUME.

REINFORCING STEEL SHALL CONFORM TO ASTM A706, GRADE 60.

ALL EXPOSED SURFACES OF CONCRETE ABOVE GRADE SHALL HAVE A RUBBED FINISH IN ACCORDANCE WITH ARTICLE 503.15 OF THE IDOT STANDARD SPECIFICATION. ALL OTHER EXPOSED AREAS SHALL RECEIVE A NORMAL FINISH PER ARTICLE 503.15.

UNLESS NOTED OTHERWISE, PROVIDE THE FOLLOWING MINIMUM CLEAR CONCRETE COVER FOR REINFORCING BARS.

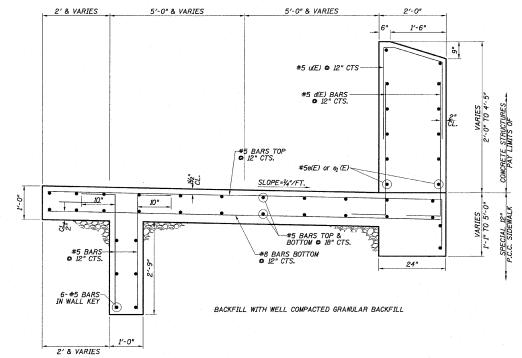
CONCRETE EXPOSED TO EARTH OR WEATHER IN CONTACT WITH SOIL OR WATER:

FOOTING BOTTOMS

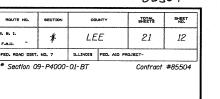
ALL EXPOSED CONCRETE SHALL INCLUDE A 3/4" CHAMFER ON ALL EXPOSED EDGES UNLESS OTHERWISE SHOWN ON THE

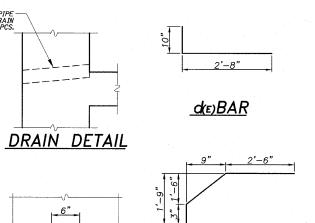
FOOTINGS SUPPORTING CURVED WALL SECTIONS MAY BE CONSTRUCTED IN STRAIGHT SECTIONS MAINTAINING THE MINIMUM DIMENSIONS SHOWN. PAYMENT WILL BE MADE FOR PLAN DIMENSIONS

ALL CONSTRUCTION JOINTS IN CONCRETE STRUCTURES SHALL BE BONDED.



SECTION THRU WALL





DRAIN ELEVATION

U(E)BAR

SEALING DETAIL " PREFORMED JOINT FILLER 1½" COMPRESSIBLE ROD TWO COMPONENT NON—STAINING GRAY -SEALING COMPOUND WITH POLYSULFIDE----LIQUID POLYMER GUN—GRADE WITH PRIMER EXPANSION JOINT

\*EXPANSION JOINT INCLUDED WITH PCC SIDEWALK 12" SPECIAL

Joint sealer

## BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d(E)	298	#5	3'-6"	
e <sub>(E)</sub>	20	#5	32'-0"	
e 1(E)	30	#5	28'-3"	
e <sub>2</sub> (E)	10	#5	30'-9"	
€4(E)	10	#5	27'-0"	
U(E)	153	#5	7'-9"	
Concrete Structures			Cu. Yds.	35.9
Reinforcement Bars, Epoxy Coated			Lbs.	4220
Portland Cement Sidewalk Special			Sq. Ft.	1625
Pipe Handrail, Special			Foot	115

## WALL DETAILS

THE LOWELL TRAIL, PH. 2 SECTION 09-P4000-01-BT DIXON PARK DISTRICT



Date: 12/15/2009

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WENDLER ENGINEERING SERVICES, INC.

Illinois Professional Design Firm No. 184-000848

Walls & Foundations for Structural Adequacy

Jest Bune-12/15/09

SCOTT A. BROWN

DIXON, ILLINOIS
ILLINOIS LICENSED STRUCTURAL

ENGINEER NO. 081-005981 EXPIRES 11-30-2010

2090299 ph: 815.288.226

## See SEALING DETAIL EXISTING OR PROPOSED PATH 18" Long Dowelbars at 18" cts. Dowel bar assembly

TRANSVERSE EXPANSION JOINT\*