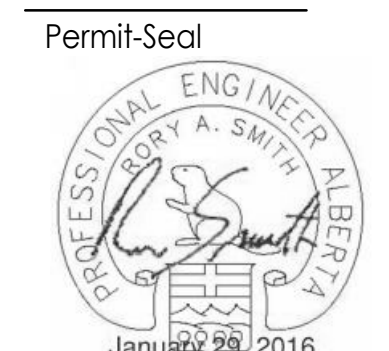


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Client/Project
GOVERNMENT OF CANADA
ELK POINT - NEW BUILDING

54 STREET AND RAILWAY AVENUE
 ELK POINT, ALBERTA

Title
DESIGN TABLES

Project No. 144202690 Scale 1 : 1
 Revision Drawing No.

Sheet 2 of 12
S002

CLEAR CONCRETE COVER TO REINFORCEMENT

READ IN CONJUNCTION WITH THE CONCRETE REINFORCEMENT SECTION OF THE DESIGN NOTES

EXPOSURE CONDITION	EXPOSURE CLASS		
	N	F-1, F-2, S-1, S-2, S-3	C-XL, C-1, C-2, C-3, A-1, A-2, A-3
CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	-	75mm	75mm
BEAMS, GIRDERS, COLUMNS AND PILES TO TIES, STIRRUPS (EXCEPT AS NOTED BELOW)	30mm	40mm	60mm
SLABS, WALLS, JOISTS, SHELLS, AND FOLDED PLATES (EXCEPT AS NOTED BELOW)	20mm	40mm	60mm
RATIO OF COVER TO NOMINAL BAR DIAMETER	1.0	1.5	2.0
RATIO OF COVER TO NOMINAL MAXIMUM AGGREGATE SIZE	1.0	1.5	2.0

NOTE: THE LARGEST COVER REQUIRED FOR ANY ELEMENT SHALL GOVERN

CLIMATIC INFORMATION

READ IN CONJUNCTION WITH THE DESIGN NOTES SECTION IN THE DESIGN NOTES

SNOW LOAD (150) Ss	1.9 kPa
SNOW LOAD (150) Sr	0.1 kPa
ONE DAY RAIN (1/50)	75mm
HOURLY WIND PRESSURE (1/10)	0.25 kPa
HOURLY WIND PRESSURE (1/50)	0.33 kPa
SEISMIC RESPONSE, Sa (0.2)	0.12
SEISMIC RESPONSE, Sa (0.5)	0.06
SEISMIC RESPONSE, Sa (1.0)	0.02
SEISMIC RESPONSE, Sa (2.0)	0.01
SEISMIC RESPONSE, PGA	0.06

STANDARD END HOOKS (FOR GRADE 400 REINF)

READ IN CONJUNCTION WITH THE CONCRETE REINFORCEMENT SECTION IN THE DESIGN NOTES

BAR SIZE	10M	15M	20M	25M
90° HOOK LENGTH	180	260	310	400
180° HOOK LENGTH	140	180	210	280

TYPICAL UN OTHERWISE ON DRAWINGS

SITE INFORMATION

READ IN CONJUNCTION WITH THE DESIGN LOADS SECTION IN THE DESIGN NOTES

IMPORTANCE CATEGORY	POST-DISASTER
WIND EXPOSURE TYPE	OPEN TERRAIN
INTERNAL PRESSURE CATEGORY	3
FOUNDATION SITE CLASS	D

REINFORCEMENT SPLICES

READ IN CONJUNCTION WITH THE CONCRETE REINFORCEMENT SECTION IN THE DESIGN NOTES

BAR SIZE	COMPRESSION SPLICE (mm)	TENSION SPLICE (mm)	
		VERTICAL OR BOTTOM HORIZONTAL BARS	TOP HORIZONTAL BARS*
		UNCOATED BARS	UNCOATED BARS
10M	350	425	550
15M	475	600	775
20M	575	750	950
25M	750	1200	1550

NOTE 1: THIS TABLE IS BASED ON NORMAL WEIGHT CONCRETE $f_c = 35 \text{ MPa}$ AND ON REINFORCING STEEL $f_y = 400 \text{ MPa}$

NOTE 2: * TOP BARS ARE DEFINED AS HORIZONTAL REINFORCEMENT PLACED SUCH THAT MORE THAN 300mm OF CONCRETE IS CAST IN THE MEMBER BELOW THE REINFORCEMENT.

NOTE 3: FOR STANDARD EMBEDMENT DEPTH INTO CONCRETE, DIVIDE BASIC TENSION LAP SPLICE NUMBER BY 1.3.

DESIGN LOADS

READ IN CONJUNCTION WITH THE DESIGN LOADS SECTION IN THE DESIGN NOTES

FIRST FLOOR	
LIVE LOAD	4.8 kPa
LIVE LOAD - STORAGE AREAS	7.2 kPa
SUPERIMPOSED DEAD LOAD	0.5 kPa
ROOFS	
BASIC SNOW LOAD	1.62 kPa
SUPERIMPOSED DEAD LOAD	1.2 kPa
ACCUMULATED SNOW LOAD	SEE ROOF PLAN
RAIN PONDING LOAD	SEE ROOF PLAN
NET FACTORED WIND UPLIFT LOAD	1.0 kPa
WALL CLADDING DEAD LOADS	
BRICK OR STONE	2.3 kPa
GLASS CURTAIN WALL	1.0 kPa
METAL PANEL	0.75 kPa
OTHER WALLS	1.0 kPa

STEEL GRADES

READ IN CONJUNCTION WITH THE STRUCTURAL STEEL SECTION IN THE DESIGN NOTES

MEMBER TYPE	GRADE
ROLLED W-SHAPES, TEES	CAN/CSA G40.21 350W OR ASTM A992 GRADE 50
WELDED WIDE FLANGE	CAN/CSA G40.21 350W
HOLLOW STRUCTURAL SECTIONS	CAN/CSA G40.21 350W CLASS C
OTHER STRUCTURAL SECTIONS AND PLATES	CAN/CSA G40.21 300W
BOLTS	ASTM A325
ANCHOR RODS	ASTM F1554 GRADE 36
HEADED STUD ANCHORS	ASTM A108
THREADED ROD	ASTM A36

FORCE MODIFICATION FACTORS

READ IN CONJUNCTION WITH THE FOUNDATIONS SECTION IN THE DESIGN NOTES

LATERAL LOAD RESISTANCE SYSTEM	MODIFICATION FACTOR	
	DUCTILITY RELATED R_D	OVERSTRENGTH RELATED R_O
STEEL CROSS BRACING	3.0	1.3
MASONRY SHEAR WALLS	2.0	1.5

MASONRY LINTEL REINFORCEMENT IN LOADING BEARING BLOCK WALLS

READ IN CONJUNCTION WITH THE MASONRY SECTION IN THE DESIGN NOTES

SPAN (mm)	DEPTH (NUMBER OF COURSES)	REINFORCEMENT
< 1200	400mm (2)	1 - 15M
< 2400	600mm (3)	1 - 20M
< 3000	800mm (4)	1 - 20M BOT, 1 - 15M MID

CONTROLLED CONCRETE

READ IN CONJUNCTION WITH THE CAST IN PLACE CONCRETE SECTION OF THE DESIGN NOTES

CONCRETE ELEMENT	CLASS OF EXPOSURE	MIN COMPRESSIVE STRENGTH (AT 28 DAYS - MPa)	MAX AGGREGATE SIZE (mm)	AIR CONTENT CATEGORY	MAXIMUM W/C RATIO	CEMENT TYPE
EXTERIOR CONCRETE						
PILES	N	25	20	-	-	GU
PILE CAPS	N	25	20	-	0.50	GU
RETAINING WALLS	C-1	35	20	1	0.40	GU
FOUNDATION WALLS	N	25	20	-	-	GU
GRADE BEAMS	N	25	20	-	-	GU
SLABS ON GRADE	C-2	32	20	1	0.45	GU
SITE CONCRETE (NON STRUCTURAL)	C-2	32	20	2	0.45	GU
INTERIOR CONCRETE						
STRUCTURAL SLABS AND BEAMS	N	25	20	-	0.55	GU
MASONRY COREFILL	N	15	12	-	0.55	GU
HOUSEKEEPING PADS	N	20	20	-	-	GU

MASONRY REINFORCEMENT LAP SPLICES

READ IN CONJUNCTION WITH THE MASONRY SECTION IN THE DESIGN NOTES

BAR SIZE	LAP SPLICES (mm)
10M	450
15M	600
20M	900

Notes

- ARCHITECTURAL IMAGE IS SHOWN FOR INFORMATION & REFERENCE ONLY. SEE ARCHITECTURAL DRAWINGS FOR ARCHITECTURAL INFORMATION.
- REFERENCE ELEVATION 100 000 = GEODETIC ELEVATION 594.700.
- SEE DRAWINGS S501 TO S504 FOR TYPICAL SECTIONS & DETAILS.
- UNDERGROUND SERVICES ARE TO BE HUNG FROM THE STRUCTURAL SLAB.
- SEE 3/S402 FOR THE GARBAGE ENCLOSURE.

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Client/Project
 GOVERNMENT OF CANADA
 ELK POINT - NEW BUILDING

54 STREET AND RAILWAY AVENUE
 ELK POINT, ALBERTA

Title
 FOUNDATION AND MAIN FLOOR PLAN

Project No.
 144202690

Scale
 As indicated

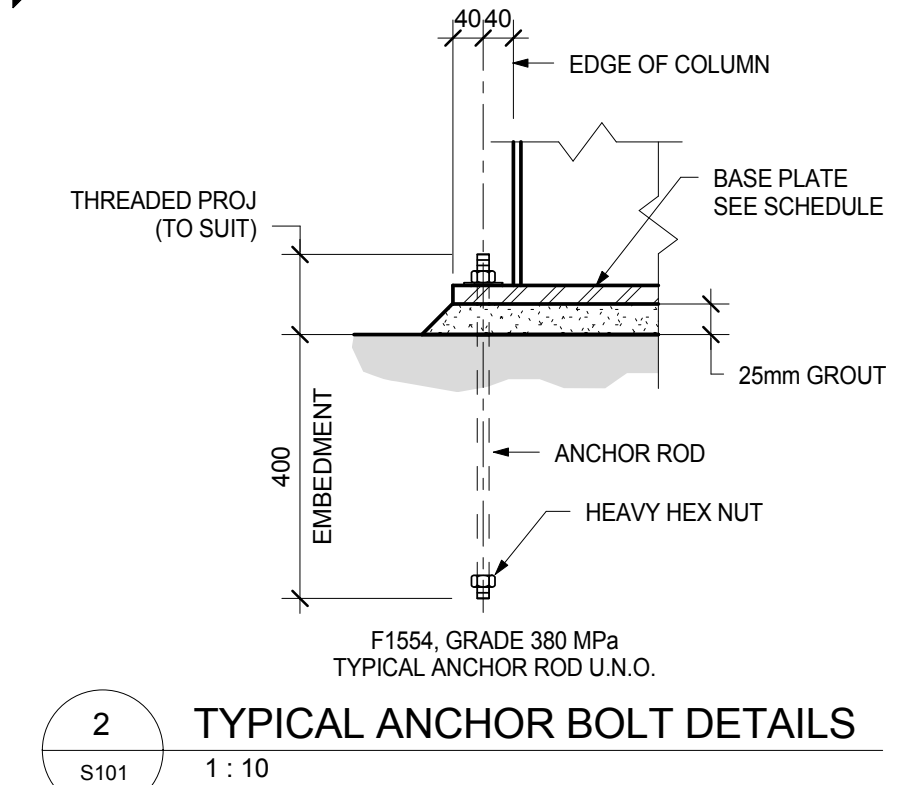
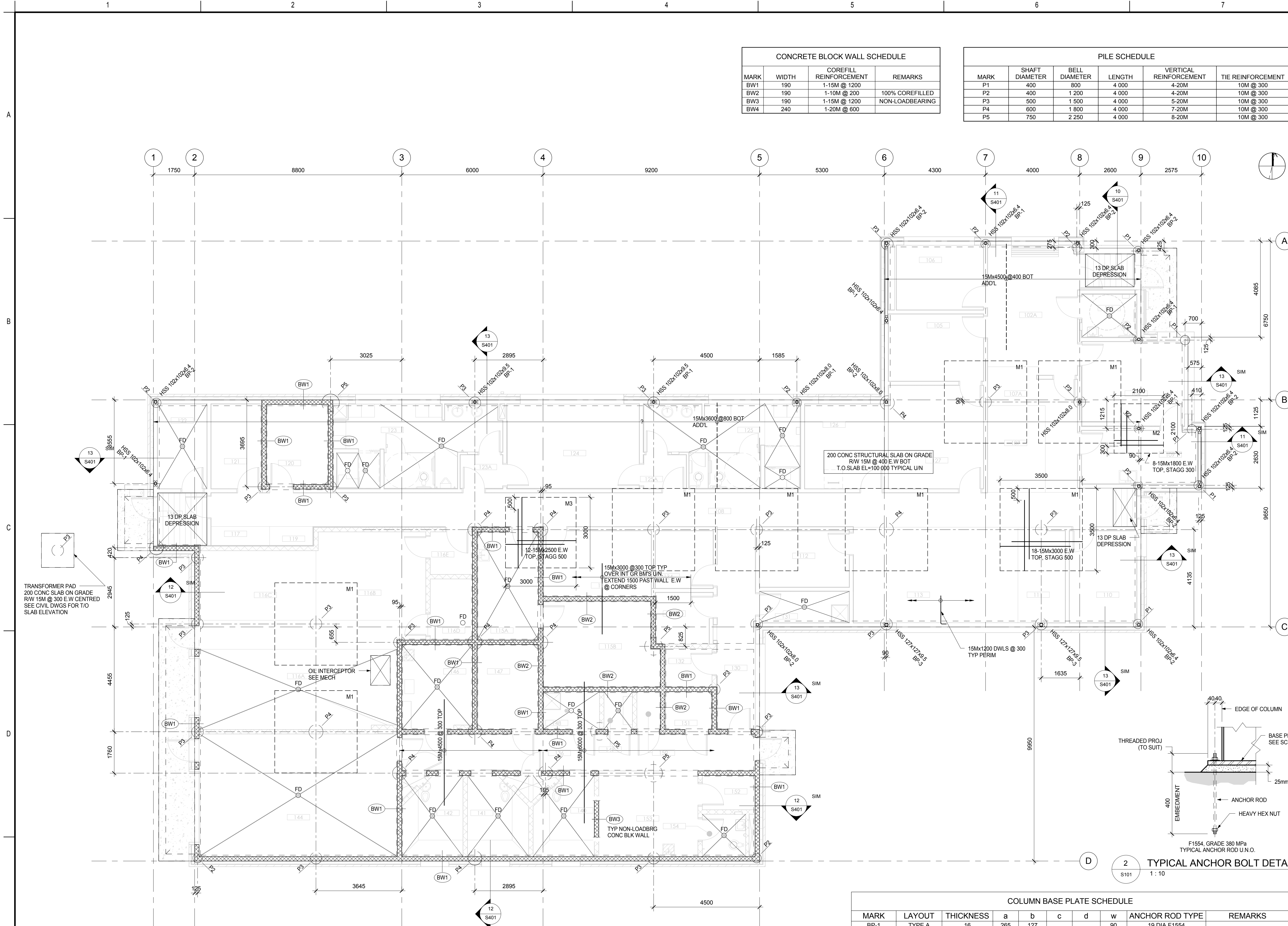
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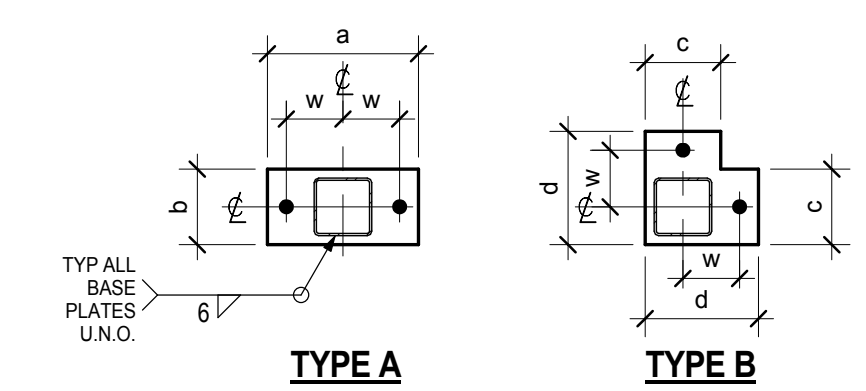
S101

MARK	WIDTH	COREFILL REINFORCEMENT	REMARKS
BW1	190	1-15M @ 1200	
BW2	190	1-10M @ 200	100% COREFILLED
BW3	190	1-15M @ 1200	NON-LOADBEARING
BW4	240	1-20M @ 600	

MARK	SHAFT DIAMETER	BELL DIAMETER	LENGTH	VERTICAL REINFORCEMENT	TIE REINFORCEMENT
P1	400	800	4 000	4-20M	10M @ 300
P2	400	1 200	4 000	4-20M	10M @ 300
P3	500	1 500	4 000	5-20M	10M @ 300
P4	600	1 800	4 000	7-20M	10M @ 300
P5	750	2 250	4 000	8-20M	10M @ 300



MARK	LAYOUT	THICKNESS	a	b	c	d	w	ANCHOR ROD TYPE	REMARKS
BP-1	TYPE A	16	265	127			90	19 DIA F1554	
BP-2	TYPE B	16			127	195	90	19 DIA F1554	
BP-3	TYPE A	16	290	152			105	19 DIA F1554	



1 FOUNDATION AND MAIN FLOOR PLAN
 S101 1:75

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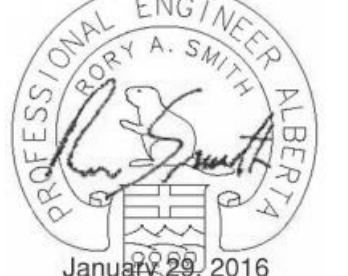
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 ALBERTA
 REGISTRY OF PROFESSIONAL ENGINEERS
 AND GEOSCIENTISTS
 January 29, 2016

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 ELK POINT - NEW BUILDING

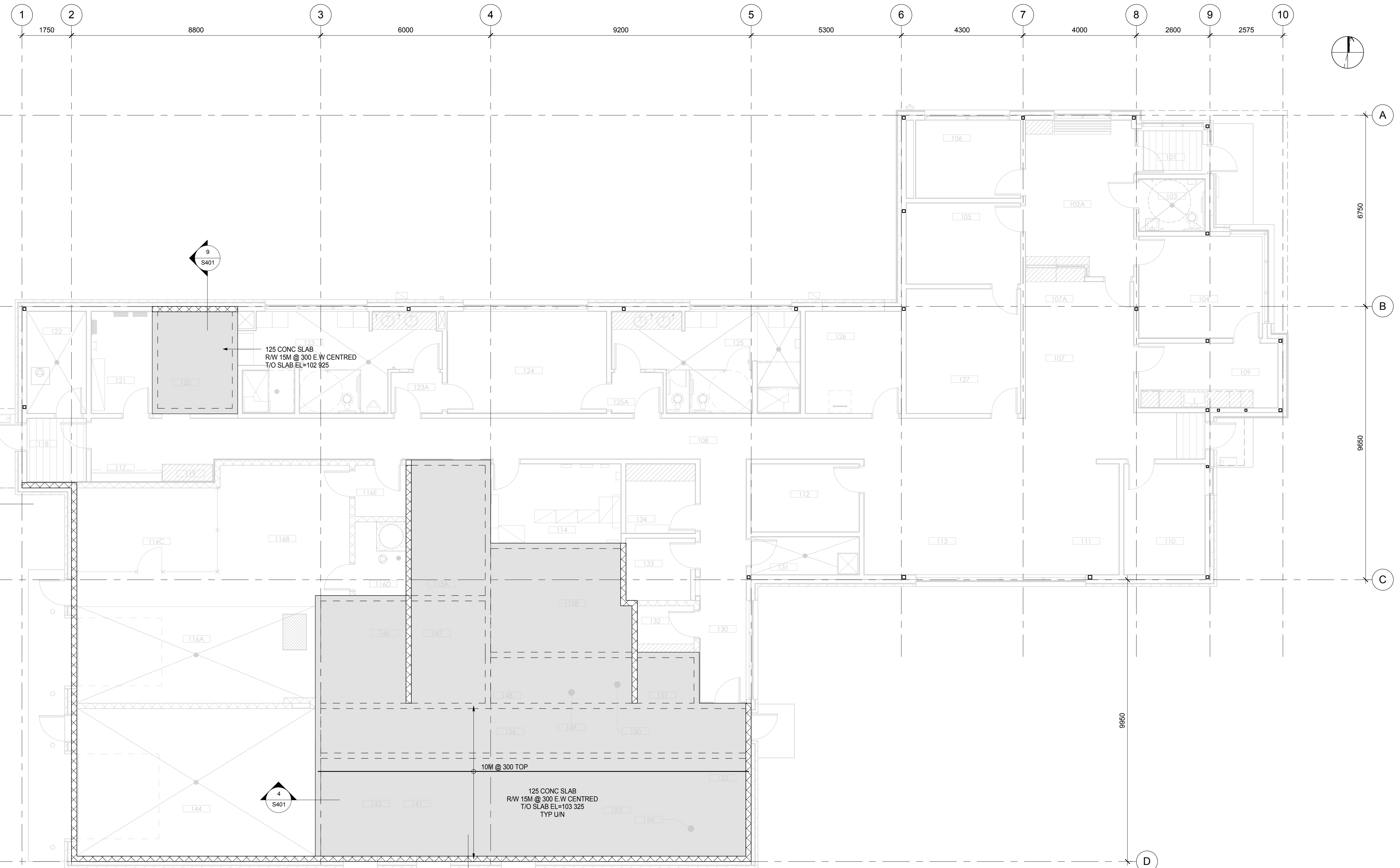
54 STREET AND RAILWAY AVENUE
 ELK POINT, ALBERTA

Title
 CONCRETE SLAB PLANS

Project No. 144202690	Scale 1 : 75
Revision	Drawing No.

Sheet
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1 CONCRETE SLAB PLANS
 S102 1 : 75

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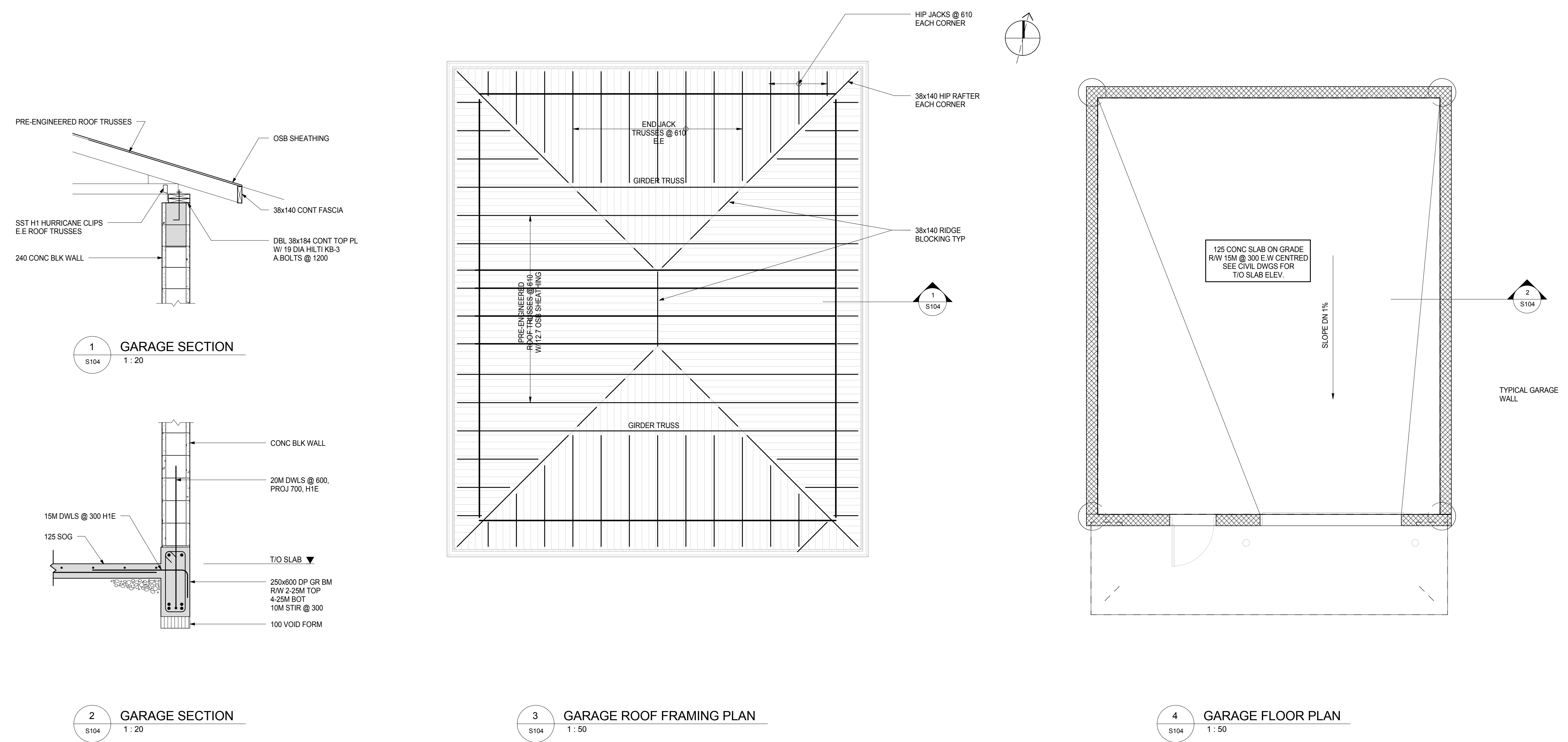
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GOVERNMENT OF CANADA
ELK POINT - NEW BUILDING
54 STREET AND RAILWAY AVENUE
ELK POINT, ALBERTA
Title
GARAGE PLANS, SECTIONS, AND DETAILS

Project No. 144202690 Scale As indicated
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 Sheet 6 of 12 **S104**



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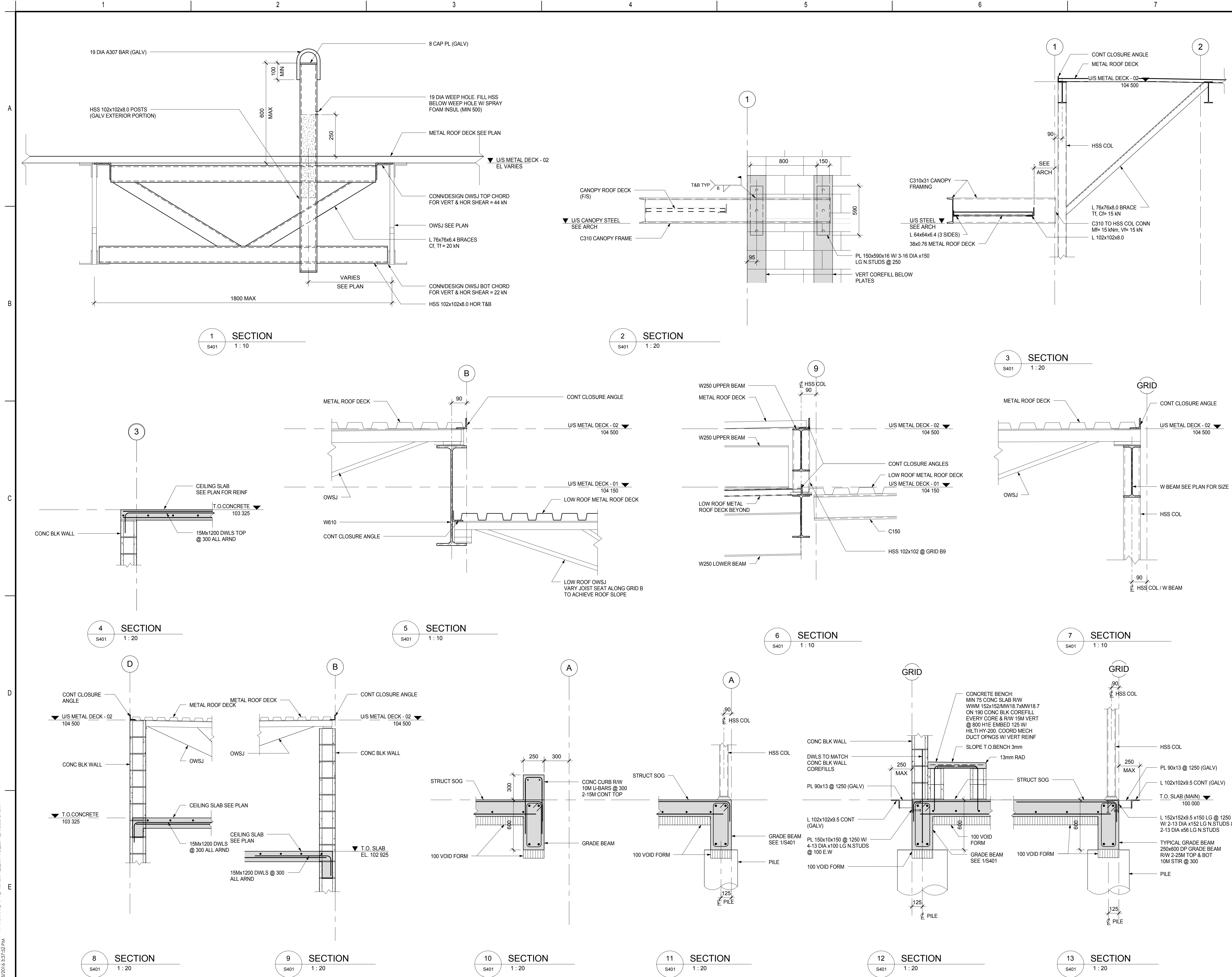
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ELK POINT - NEW BUILDING

54 STREET AND RAILWAY AVENUE
 ELK POINT, ALBERTA

Title
SECTIONS AND DETAILS

Project No. 144202690 Scale As indicated
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Sheet **S401**
 7 of 12

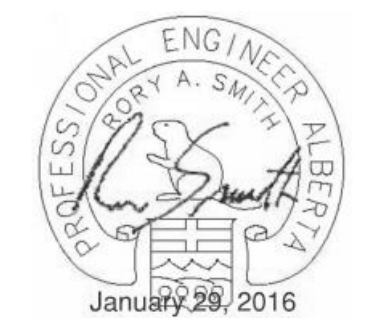


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54 STREET AND RAILWAY AVENUE
ELK POINT, ALBERTA
Title
TYPICAL DETAILS

Project No.
144202690
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As indicated
Drawing No.

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S501

3

TYPICAL GRADE BEAM DETAILS

TYPICAL GRADE BEAM

TYPICAL CANTILEVERED GRADE BEAM

2

TYPICAL INTERIOR PILE CAP DETAIL

SECTION

7

TYPICAL VOID FORM DETAILS

WALLS AND GRADE BEAMS

PILE CAPS

NOTE:
REQUIRED UNDER ALL EXTERIOR GRADE BEAMS, WALLS, AND PILE CAPS

5

TYPICAL REINFORCEMENT REQUIRED FOR HOLES THROUGH GRADE BEAMS

NOTE:
CONTACT ENGINEER FOR WRITTEN APPROVAL OR SUPPLEMENTARY DETAILS FOR HOLES IN ALTERNATE LOCATIONS.

6

TYPICAL CONSTRUCTION JOINT IN GRADE BEAM

PLAN

ELEVATION

NOTES:
1. ALL GRADE BEAM HORIZONTAL REINFORCING TO BE CONTINUOUS THROUGH JOINT.
2. LOCATE JOINT AT MIDSPAN & AT 20m MAX.

1

TYPICAL BELLED PILE DETAIL

PLAN

SECTION

NOTES:
1. WHERE WINTER CONSTRUCTION IS EXPERIENCED, THE CONTRACTOR IS TO PROVIDE ADEQUATE PROTECTION, THROUGHOUT THE CONSTRUCTION PERIOD, PREVENTING FROST PENETRATION DEPTHS GREATER THAN 1000mm OR EXTEND THE REINFORCEMENT CAGE TO 6000mm BELOW GRADE.
2. PILE BASE ELEVATIONS ARE APPROXIMATE FOR BELLED PILES. THEY ARE TO BE BASED ON A MINIMUM OF 1500mm AND 1000mm INTO CLAY TILL AND CLAY SHALE RESPECTIVELY.

4

TYPICAL STEPPED GRADE BEAM DETAILS

TYPICAL GRADE BEAM - BOTTOM STEPPING DOWN (AT SUPPORT)

TYPICAL GRADE BEAM - TOP STEPPING DOWN (IN MIDDLE THIRD OF SPAN)

A
B
C
D
E

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 ALBERTA
 J. SWIFT
 January 29, 2016

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Client/Project
**GOVERNMENT OF CANADA
 ELK POINT - NEW BUILDING**

54 STREET AND RAILWAY AVENUE
 ELK POINT, ALBERTA

Title
TYPICAL DETAILS

Project No. 144202690	Scale 1 : 10
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 10 of 12

S502

TYPICAL ADDITIONAL REINFORCING AROUND PIPES IN CONCRETE SLABS AND WALLS

TYP 2-20M (TYP AS SHOWN) FOR DIA TO 800
 2-25M (TYP AS SHOWN) FOR DIA TO 1200

PIPE DIA 300 TO 1200

NOTES:

- NUMBER OF REINFORCING BARS TO BE CUT AT OPENING TO BE KEPT TO A MINIMUM.
- REINFORCING BARS TO BE KEPT 75 mm CLEAR OF OPENING.
- PROVIDE STANDARD HOOKS ON ADDITIONAL REINFORCING WHERE IT IS NOT POSSIBLE TO INSTALL REINFORCING WITH REQUIRED LENGTH.

TYPICAL REINFORCEMENT AT CORNER WALL/ GRADE BEAM INTERSECTION

FULL TENSION SPLICE
 STANDARD HOOK
 CORNER BARS SAME SIZE AND SPACING AS HORIZONTAL WALL/GRADE BEAM REINFORCING TO MAX 20M
 HORIZONTAL REINFORCING
 PLAN

TYPICAL REINFORCEMENT AT WALL/ GRADE BEAM INTERSECTION

STANDARD HOOK
 STANDARD HOOK
 (NON-WATER RETAINING STRUCTURES)
 ADDITIONAL VERTICAL EACH FACE AT 2nd FOUR SIDE OF JOINT
 FULL TENSION SPLICE
 CONSTRUCTION JOINT WHERE REQUIRED
 PLAN
 DOWELS SAME SIZE AND SPACING AS HORIZONTAL WALL/ GRADE BEAM REINFORCE TO MAX 20M

TYPICAL APRON SLAB AT MANDOOR DETAIL

NOTE:
 APRON TO BEAR ON BEAM OR WALL IN A RECESS WHICH EXTENDS THE WIDTH OF THE DOOR ONLY. WHERE APRON EXTENDS PAST DOOR JAMBS, INSTALL ISOLATION JOINT AT OUTSIDE FACE OF WALL OR BEAM.

50 TYP (FIBREBOARD INCLUDED)
 JOINT SEALANT
 600 NTS TYP
 SLAB (SEE PLAN)
 15M x 1400 LONG DOWELS @ 300 UNO
 CAST-IN-PLACE WALL OR GRADE BEAM. SEE PLAN
 12 THICK ASPHALT IMPREGNATED FIBREBOARD

SEE PLAN
 650
 10M @ 300
 10M @ 300 EACH WAY, MID-DEPTH
 600 MIN NTS
 2% SLOPE MIN
 3-15M CONT
 150 COMPACTED STRUCTURAL GRANULAR FILL
 300

TYPICAL HORIZONTAL BOND BEAMS IN CONCRETE BLOCK WALL

VERTICAL CORE FILL REINFORCING MUST EXTEND TO TOP OF WALL
 BOND BEAM AT TOP OF WALL
 MAIN REINFORCEMENT CONTINUOUS THROUGH JOINT
 CONTINUOUS KEYWAY
 ADDITIONAL 15M HORIZONTAL EACH FACE AT SECOND PLACEMENT SIDE OF JOINT
 TEMPERATURE REINFORCING
 FORMED CONSTRUCTION JOINT LOCATED IN MIDDLE THIRD OF SLAB SPAN
 50, 75
 38

NOTES:

- DO NOT SPLICE REINFORCING STEEL THROUGH JOINT
- ALL PROPOSED LOCATIONS TO BE APPROVED BY ENGINEER

VERTICAL CORE FILL REINFORCING MUST PASS THROUGH BOND BEAM
 INTERMEDIATE BOND BEAM WHERE NOTED

SECTION

TYPICAL CONSTRUCTION JOINT IN STRUCTURAL SLAB

TEMPERATURE REINFORCING
 MAIN REINFORCEMENT CONTINUOUS THROUGH JOINT
 CONTINUOUS KEYWAY
 ADDITIONAL 15M HORIZONTAL EACH FACE AT SECOND PLACEMENT SIDE OF JOINT

NOTES:

- DO NOT SPLICE REINFORCING STEEL THROUGH JOINT
- ALL PROPOSED LOCATIONS TO BE APPROVED BY ENGINEER

TYPICAL CONTROL JOINT IN CONCRETE BLOCK WALL

10 ASPHALT IMPREGNATED FIBREBOARD
 BOND BEAM REINFORCEMENT TO BE INTERRUPTED AT JOINT
 25 STYROFOAM END CAP OR SLEEVE 400
 19 DIA x 800 SMOOTH BAR AT BOND BEAM LOCATION ONLY. POLYETHYLENE WRAP ONE SIDE OF JOINT ONLY. CONC FILL AROUND ENTIRE BAR
 CONCRETE FILL VERT CORE EACH SIDE OF JOINT WITH 2-15M VERTICAL EACH CORE

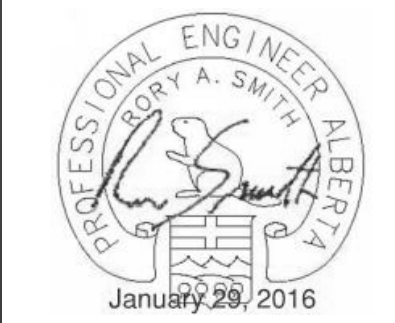
TYPICAL ADDITIONAL REINFORCING REQUIRED FOR OPENINGS THROUGH TWO WAY CONCRETE SLABS

ADDITIONAL REINF EACH SIDE OF OPENING (TOP AND/OR BOT) EQUIV IN AREA TO REINF CUT BY OPENING (50% E.S). MIN OF 2-20M
 BEAM OR WALL
 SLAB MAIN REINFORCING AS SPECIFIED EACH WAY
 BEAM OR WALL
 BEAM OR WALL
 BEAM OR WALL
 1000 MAX RECT OR SQUARE OPENING
 1000 MAX 400 MIN ROUND OPENING
 2-15M IN CENTER x 1200 LG
 EXTEND TOP BARS TO MATCH TOP REINFORCING
 CUT SLAB REINFORCING TO SUIT OPENING TYP
 CUT & HOOK DOWN TOP REINFORCING WHERE NOTED ON DWGS

NOTES:

- FOR OPENINGS LARGER THAN INDICATED, OR NOT SPECIFICALLY DETAILED ELSEWHERE REINFORCING MUST BE APPROVED IN WRITING BY THE ENGINEER.
- REFER TO ARCHITECTURAL & MECHANICAL DRAWINGS FOR DIMENSIONS & LOCATIONS FOR ALL OPENINGS NOT SPECIFICALLY DETAILED ON STRUCTURAL DRAWINGS.

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 ELK POINT - NEW BUILDING
 54 STREET AND RAILWAY AVENUE
 ELK POINT, ALBERTA

Title
 TYPICAL DETAILS

Project No.
 144202690
 Scale
 1 : 10
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 Drawing No.

Sheet
 11 of 12

S503

TYPICAL LATERAL SUPPORT FOR NON LOAD BEARING CONCRETE BLOCK WALL TO DECK

SECTION

TYPICAL LATERAL SUPPORT FOR NON-LOAD BEARING PARTITIONS

NON-LOAD BEARING WALL PERPENDICULAR TO OWSJ

NON-LOAD BEARING WALL PARALLEL TO OWSJ

TYPICAL LOAD BEARING CONCRETE BLOCK WALL REINFORCING

ELEVATION

LINTEL SCHEDULE (TYPICAL UNO) *		
SPAN	LINTEL SIZE	REINFORCEMENT
UP TO 1200	400 DEEP	1-15M BOT
1201 TO 2400	600 DEEP	1-20M BOT
2401 TO 3600	800 DEEP	1-20M BOT, 1-15M MID
3601 TO 4500	800 DEEP	1-20M TOP & BOT, 1-15M MID, 10M HAIRPINS @ 300

* NOTE: NO CONCENTRATED LOADS ALLOWED

TYPICAL FRAMING CHANNEL CONNECTION TO OPEN WEB STEEL JOIST

SECTION

TYPICAL OPEN WEB STEEL JOIST BEARING ON STEEL BEAM (155 MIN TO 210 MAX WIDE FLANGE)

PLAN

SECTION

TYPICAL OPEN WEB STEEL JOIST BEARING INTO SIDE OF CONCRETE BLOCK WALL

SECTION

TYPICAL PLAN OF LEDGER ANGLE AT MASONRY CONTROL JOINTS & BUILDING EXPANSION JOINTS

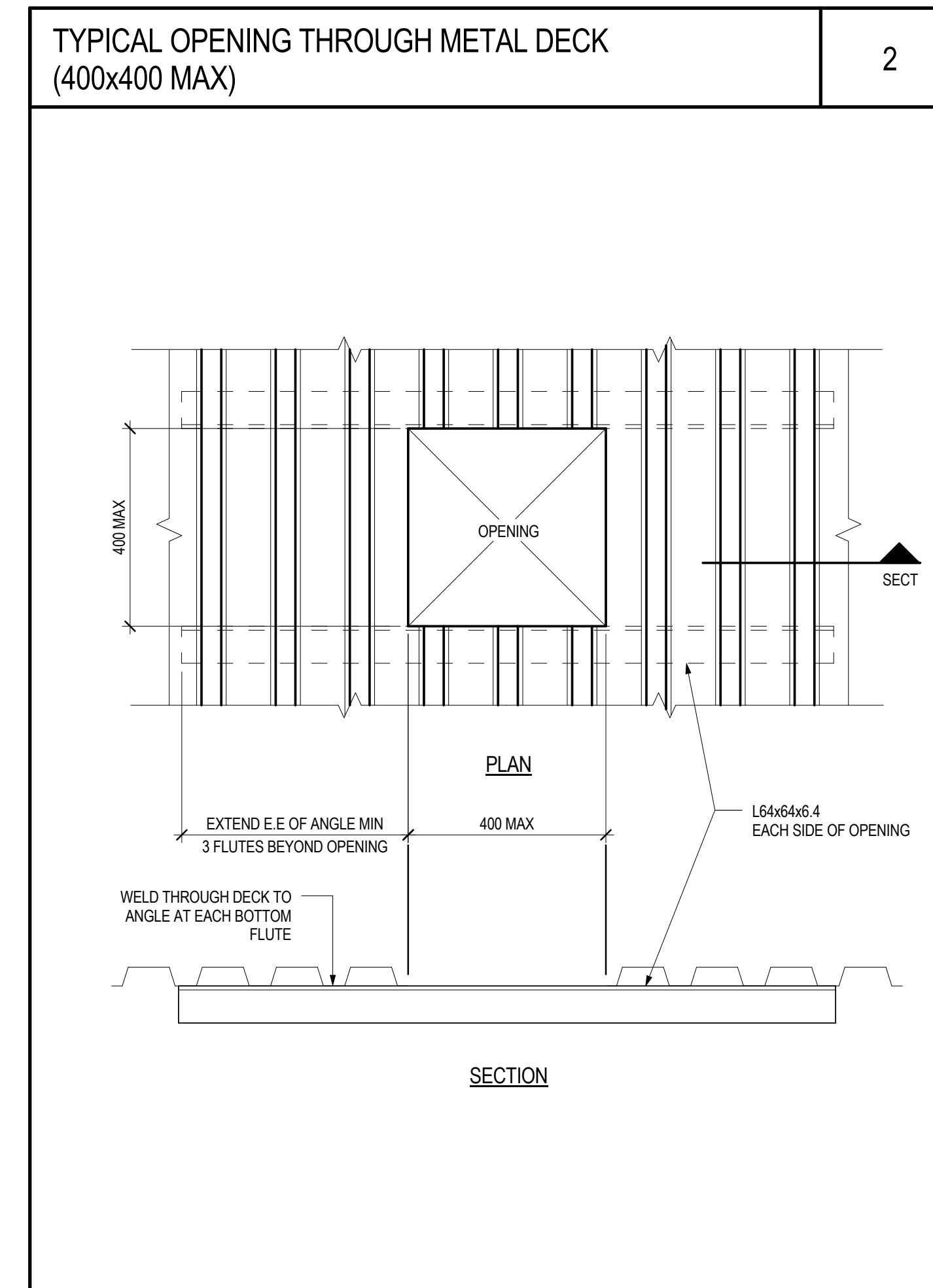
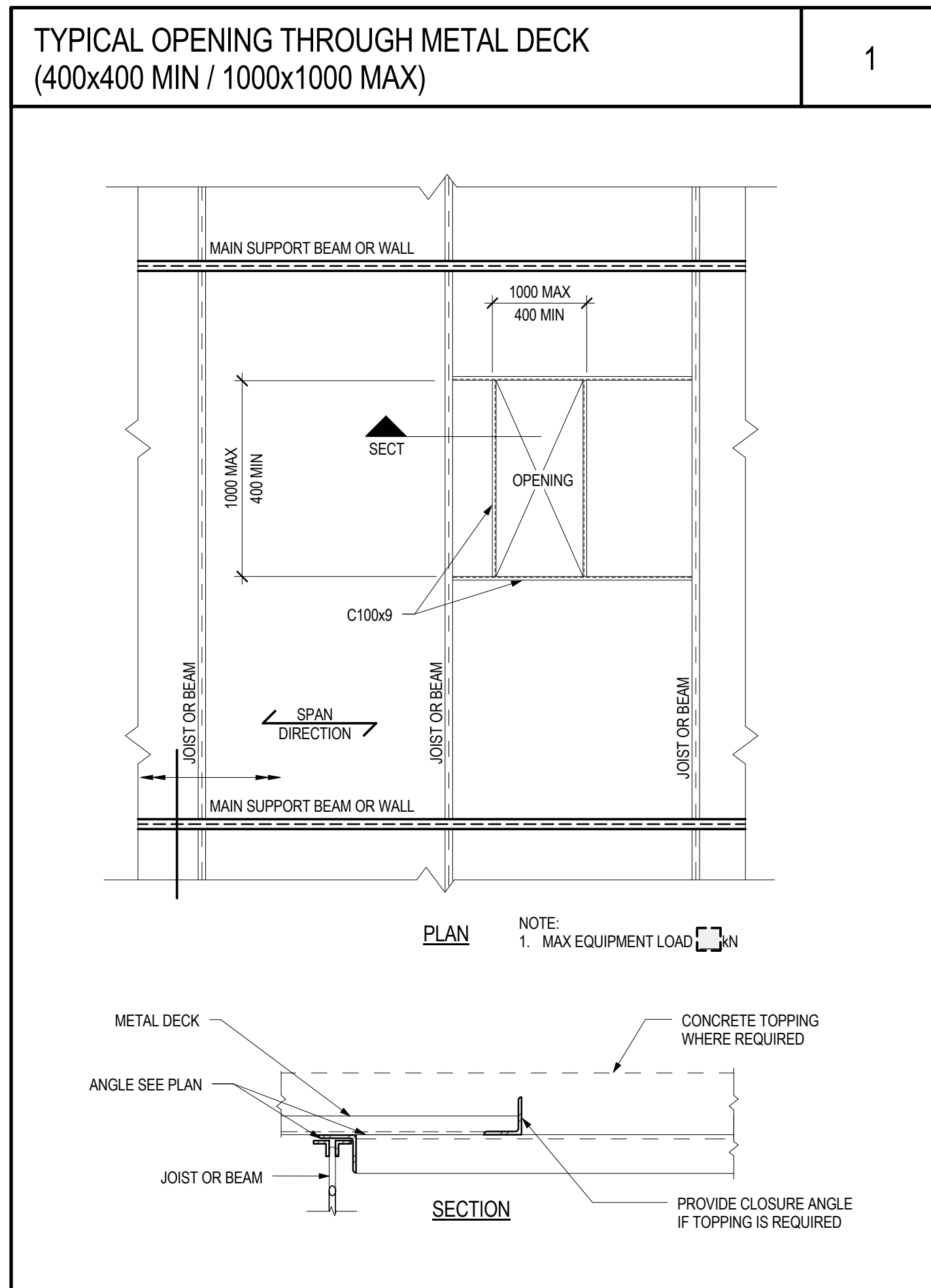
PLAN

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Legend

Notes



Revision	By	Appd	YYYY.MM.DD

ISSUED FOR TENDER	LDH	R.A.S	2016.01.29
Issued	By	Appd	YYYY.MM.DD

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Date: 29-Jan-2016
PERMIT NUMBER: P 0258
The Association of Professional Engineers and Geoscientists of Alberta

Client/Project
GOVERNMENT OF CANADA
ELK POINT - NEW BUILDING

54 STREET AND RAILWAY AVENUE
ELK POINT, ALBERTA

Title
TYPICAL DETAILS

Project No. 144202690	Scale 1 : 10
Revision	Drawing No.

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