

# DRUMHELLER DOWNTOWN PLAZA

**ISSUED FOR:**  
 SEPTEMBER, 2021

**PROJECT TEAM:**

**LANDSCAPE ARCHITECTURE AND PRIME CONSULTANT:**  
 O2 PLANNING + DESIGN INC.

**IRRIGATION:**

**SHEET INDEX:**

<b>GENERAL</b>	
G-000	COVER SHEET
<b>LANDSCAPE ARCHITECTURE</b>	
LD-100	DEMOLITION AND REMOVALS PLAN
LL-100	LAYOUT PLAN
LM-100	MATERIALS PLAN
LP-100	PLANTING PLAN
LM-500	PAVEMENT DETAILS
LM-501	SITE FEATURE DETAILS
LM-502	SITE FEATURE DETAILS
LM-503	WASHROOM DETAIL 1
LM-504	WASHROOM DETAIL 2
LM-505	WASHROOM DETAIL 3
LP-500	PLANTING DETAILS
PAGES 1-2	MPE ENGINEERING DEVELOPMENT SITE SERVICING PLAN
PAGE 3-4	ION IRRIGATION PLAN AND DETAIL PLAN

**CONTEXT LOCATION PLAN:**



Aerial image courtesy of Google Maps, 2021.



ISSUED FOR: TENDER  
 DATE: 2021-09-08

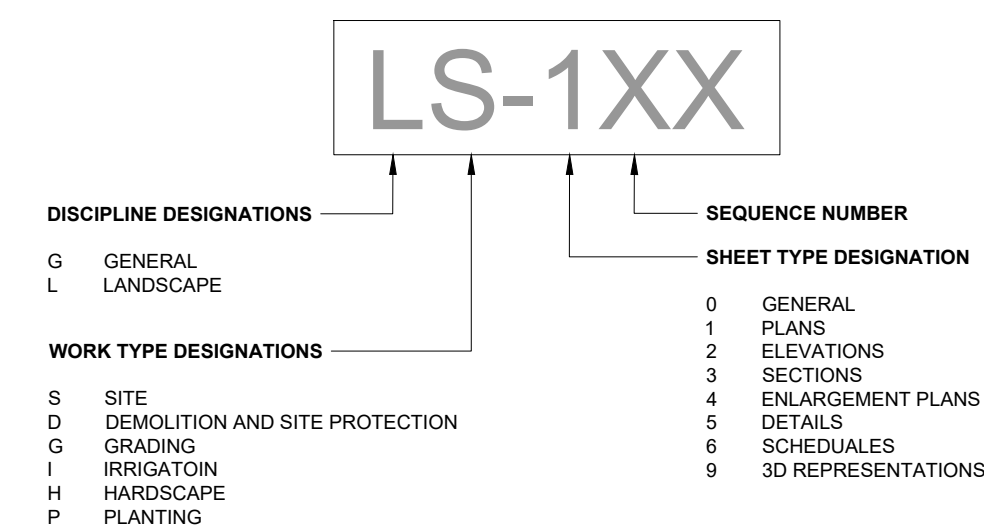
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1	ISSUED FOR TENDER	2021-09-08	

DESIGNED BY: MW/LP  
 PLOT DATE: 2021-09-07  
 DRAWING FILE NAME:  
 G-000 COVER.dwg

DRAWING TITLE:  
**COVER**

**G-000**

**SHEET INDEX - NAME AND NUMBERING CONVENTION**



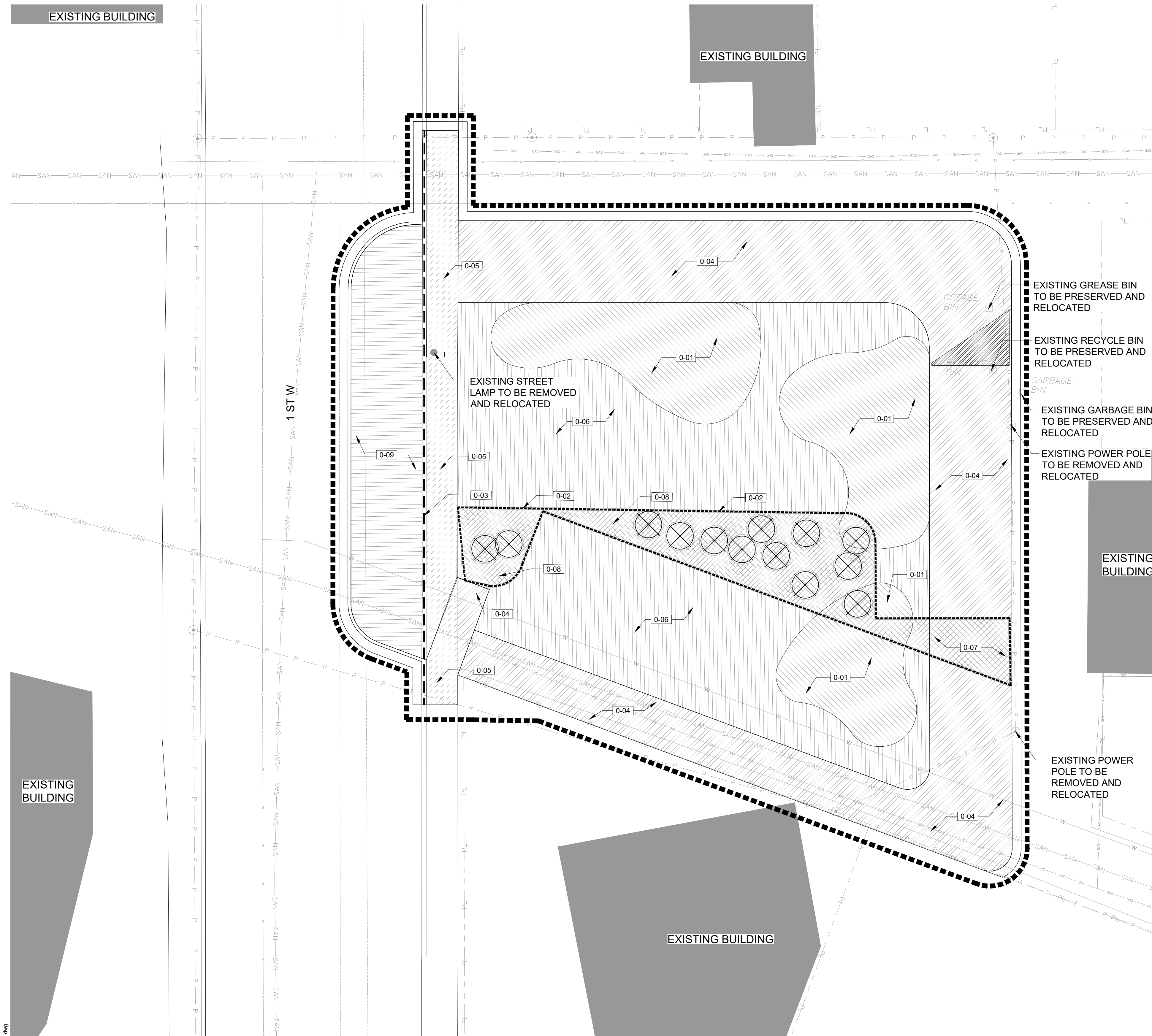
EXISTING BUILDING

EXISTING BUILDING

DEMO LEGEND

SYMBOL	DESCRIPTION	QTY
	0-01 REMOVE EXISTING ASPHALT SURFACE AND/OR EXCAVATE TO 600MM ± DEPTH	263.0 m²
	0-02 REMOVE EXISTING CONCRETE CURB - PLANTER	96.6 m
	0-03 REMOVE EXISTING CONCRETE CURB AND GUTTER - ROAD	174.0 m
	0-04 REMOVE EXISTING ASPHALT SURFACE TO 480MM ± DEPTH FOR HEAVY DUTY CONCRETE PAVING. REFER TO LM-100	537.9 m²
	0-05 REMOVE EXISTING CONCRETE PAVING TO 450MM ± DEPTH REQUIRED FOR LIGHT DUTY CONCRETE PAVING. REFER TO LM-100	95.6 m²
	0-06 REMOVE EXISTING ASPHALT SURFACE AND/OR EXCAVATE TO 150MM ± DEPTH	545.6 m²
	0-07 REMOVE EXISTING PLANTING AND PLANTING SOIL TO 600MM ± DEPTH	48.3 m²
	0-08 REMOVE EXISTING PLANTING AND PLANTING SOIL TO 300MM ± DEPTH	114.9 m²
	0-09 REMOVE EXISTING ASPHALT ROADWAY TO DEPTH REQUIRED FOR REPAIR. REFER TO LM-100	143.2 m²
SYMBOL	DESCRIPTION	QTY
	0-12 EXISTING TREE TO BE REMOVED	13

PROJECT  
**DRUMHELLER  
 DOWNTOWN PLAZA**  
 FOR  
 MUNICIPALITY OF DRUMHELLER



EXISTING BUILDING

EXISTING BUILDING

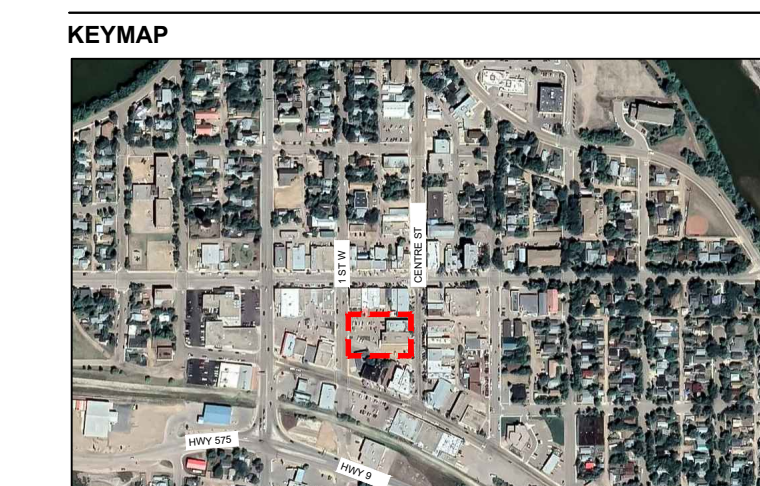
EXISTING BUILDING

GENERAL LEGEND

- LIMIT OF WORK
- PROPERTY LINE

EXISTING LEGEND

- EXISTING POWER POLE
- EXISTING STREET LAMP
- EXISTING OVERHEAD POWER LINE
- EXISTING CURB
- EXISTING STORM SEWER
- EXISTING SANITARY LINE
- EXISTING WATER LINE
- EXISTING GAS LINE

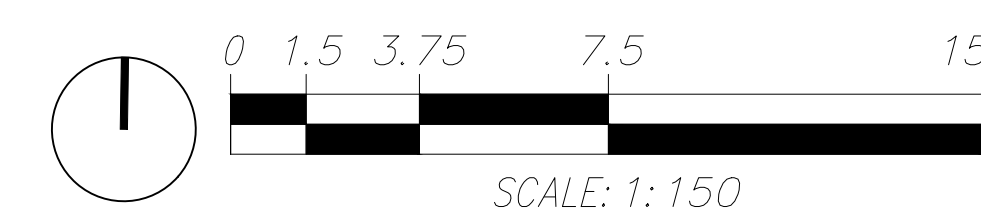


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NO.	DESCRIPTION	DATE	BY
1	ISSUED FOR TENDER	2021-09-08	

DESIGNED BY: MW/LP  
 PLOT DATE: 2021-09-04  
 DRAWING FILE NAME:  
 LD-100 DEMO PLAN.dwg

DRAWING TITLE:  
 DEMO PLAN



LD-100

NORTHING AND EASTING POINTS

PROJECT DRUMHELLER DOWNTOWN PLAZA
FOR MUNICIPALITY OF DRUMHELLER

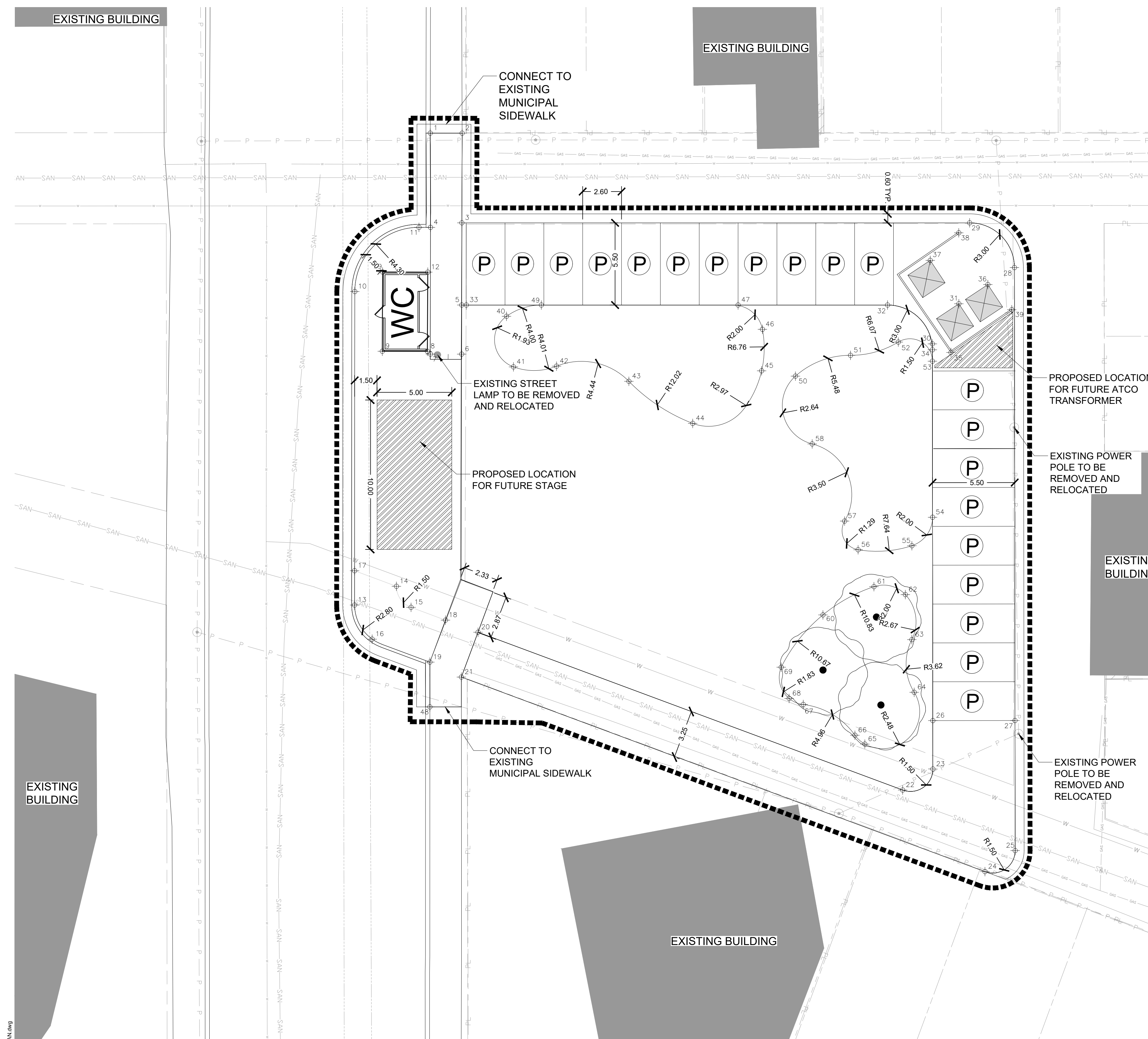


Table with 3 columns: POINT, NORTHING, and EASTING. It lists 69 points with their corresponding Northing and Easting coordinates.

PROPOSED LOCATION FOR FUTURE ATCO TRANSFORMER

EXISTING POWER POLE TO BE REMOVED AND RELOCATED

EXISTING POWER POLE TO BE REMOVED AND RELOCATED

EXISTING BUILDING

EXISTING BUILDING

EXISTING BUILDING



GENERAL LEGEND

- LIMIT OF WORK
- - - - - PROPERTY LINE

EXISTING LEGEND

- o EXISTING POWER POLE
● EXISTING STREET LAMP
— P — EXISTING OVERHEAD POWER LINE
===== EXISTING CURB
----- EXISTING STORM SEWER
--- SAN --- EXISTING SANITARY LINE
--- W --- EXISTING WATER LINE
--- GAS --- EXISTING GAS LINE

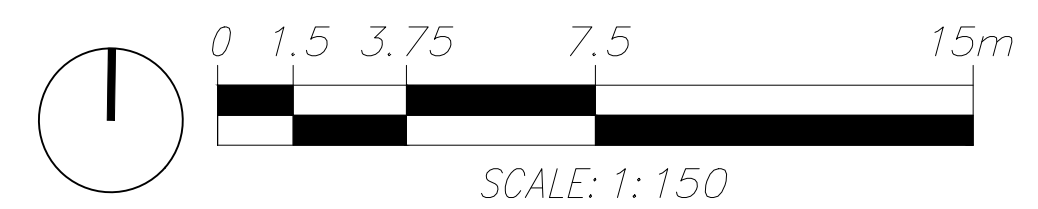
ISSUED FOR: TENDER
DATE: 2021-09-08

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DESIGNED BY: MW/LP CHECKED BY: MW
PLOT DATE: 2021-09-04
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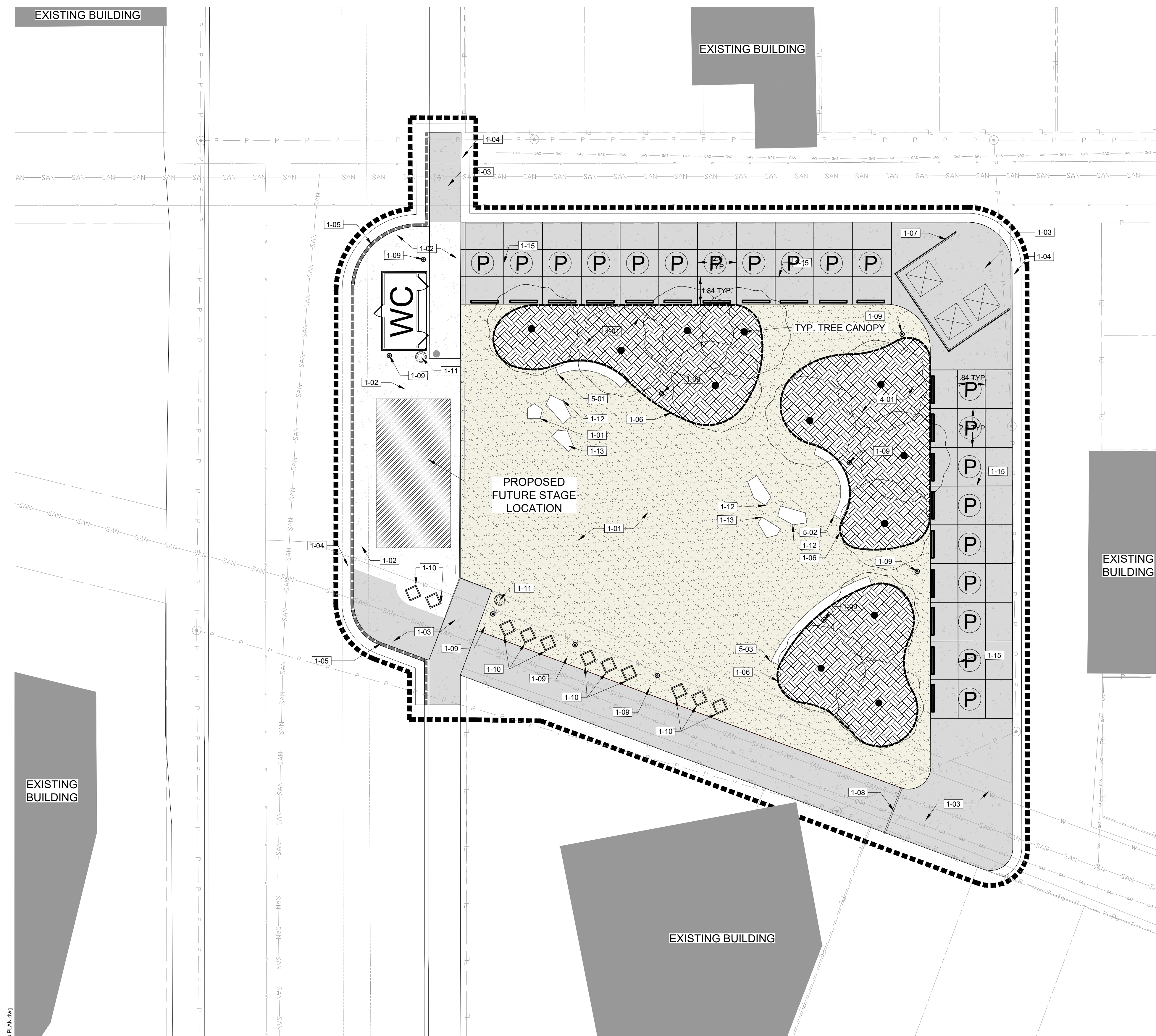


EXISTING BUILDING

EXISTING BUILDING

MATERIALS LEGEND

PROJECT  
DRUMHELLER  
DOWNTOWN PLAZA  
FOR  
MUNICIPALITY OF DRUMHELLER



SYMBOL	DESCRIPTION	QTY	DETAIL
[1-01]	DECORATIVE AGGREGATE FINES	589.3 m²	1/LM-500
[1-02]	CONCRETE PAVING - LIGHT DUTY	172.6 m²	2/LM-500
[1-03]	CONCRETE PAVING - HEAVY DUTY	568.4 m²	3/LM-500
[1-04]	ASPHALT PAVING REPAIR	80.3 m²	
[1-05]	CURB AND GUTTER	49.4 m	8/LM-500
[1-06]	EDGE RESTRAINT	124.5 m	3/LP-500
[1-07]	WASTE BIN ENCLOSURE	21.4 m	2/LM-501
[1-08]	BARRIER GATE	1	2/LM-502
[1-09]	PEDESTRIAN LIGHT	10	5/LM-501
[1-10]	CUSTOM RAMMED EARTH PLANTER	11	1/LM-503
[1-11]	WASTE RECEPTACLE	2	6/LM-501
[1-12]	CUSTOM RAMMED EARTH SEAT - LARGE	3	8/LM-503
[1-13]	CUSTOM RAMMED EARTH SEAT - MEDIUM	2	7/LM-503
[1-14]	CUSTOM RAMMED EARTH SEAT - SMALL	1	6/LM-503
[1-15]	PARKING AREA SAW CUTS	739.9 m	
[4-01]	PLANTING SOIL - 900MM DEPTH	477.7 m²	6/LP-500
[5-01]	RAMMED EARTH BENCH AREA A	1	9/LM-503
[5-02]	RAMMED EARTH BENCH AREA B	1	9/LM-503
[5-03]	RAMMED EARTH BENCH AREA C	1	9/LM-503
[6-02]	GREY RUBBER WHEELSTOP	20	

GENERAL LEGEND

- LIMIT OF WORK
- - - - - PROPERTY LINE

EXISTING LEGEND

- EXISTING POWER POLE
- EXISTING STREET LAMP
- P - EXISTING OVERHEAD POWER LINE
- ==== EXISTING CURB
- EXISTING STORM SEWER
- SAN - EXISTING SANITARY LINE
- W - EXISTING WATER LINE
- GAS - EXISTING GAS LINE

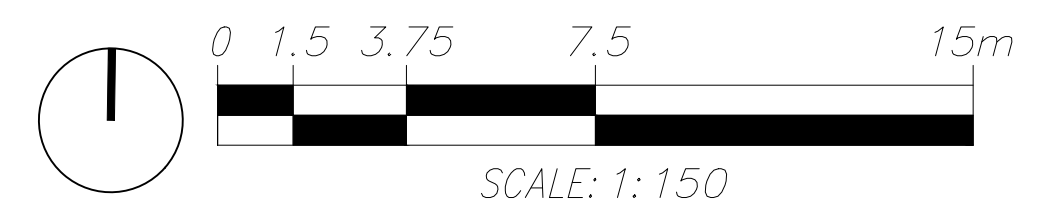


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1	ISSUED FOR TENDER	2021-09-08	

DESIGNED BY: MW/LP  
PLOT DATE: 2021-09-07  
DRAWING FILE NAME: LM-100 MATERIALS PLAN.dwg  
CHECKED BY: MW

DRAWING TITLE:  
MATERIALS PLAN



LM-100

2021-09-07 7:12pm By: LP/ruit  
N:\Projects\2021\Drumheller Downtown Plaza\07 - Design Development\01 - CAD\Sheet Files\LM-100 MATERIALS PLAN.dwg

**PROJECT**  
**DRUMHELLER**  
**DOWNTOWN PLAZA**  
 FOR  
 MUNICIPALITY OF DRUMHELLER

**PLANTING LEGEND**

TREES	CODE	BOTANICAL / COMMON NAME	SIZE	SPREAD	QTY
	MS	MALLUS X 'SPRING SNOW' / SPRING SNOW CRABAPPLE	B & B, 80MM CAL.	5M	12
SHRUBS	CODE	BOTANICAL / COMMON NAME	SIZE	SPREAD	QTY
	AX	ARENARIA X 'WALLOWA MOUNTAINS' / WALLOWA MOUNTAINS SANDWORT	1 GAL.	0.3M	74
	AA2	ARUNCUS AETHUSIFOLIUS / DWARF GOATBEARD	2 GAL.	0.3M	117
	AC	ASTILBE X 'CAPPUCCINO' / CAPPUCCINO ASTILBE	2 GAL.	0.4M	101
	CH	CIMICIFUGA SIMPLEX 'HILLSIDE BLACK BEAUTY' / BLACK BEAUTY BUGBANE	2 GAL.	.15M	225
	ER	ECHIUM AMOENUM / RED FEATHERS	1 YR. PLUGS	0.2M	90
	GT	GEUM TRIFLORUM / PRAIRIE SMOKE	1 YR. PLUGS	0.2M	441
	HN	HEMEROCALLIS X 'NIGHT EMBERS' / NIGHT EMBERS DAYLILY	2 GAL.	0.6	37
	LX	LUPINUS X 'NOBLE MAIDEN' / NOBLE MAIDEN WHITE LUPINE	2 GAL.	0.5M	44

EXISTING BUILDING

EXISTING BUILDING



EXISTING BUILDING

EXISTING BUILDING

EXISTING BUILDING



**GENERAL LEGEND**

- LIMIT OF WORK
- - - - - PROPERTY LINE

**EXISTING LEGEND**

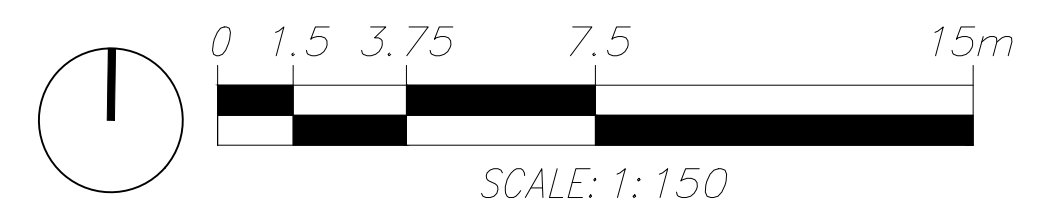
- ⊙ EXISTING POWER POLE
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REVISIONS:	NO.	DESCRIPTION.	DATE.	BY.
	1	ISSUED FOR TENDER	2021-09-08	

DESIGNED BY: MW/LP  
 PLOT DATE: 2021-09-04  
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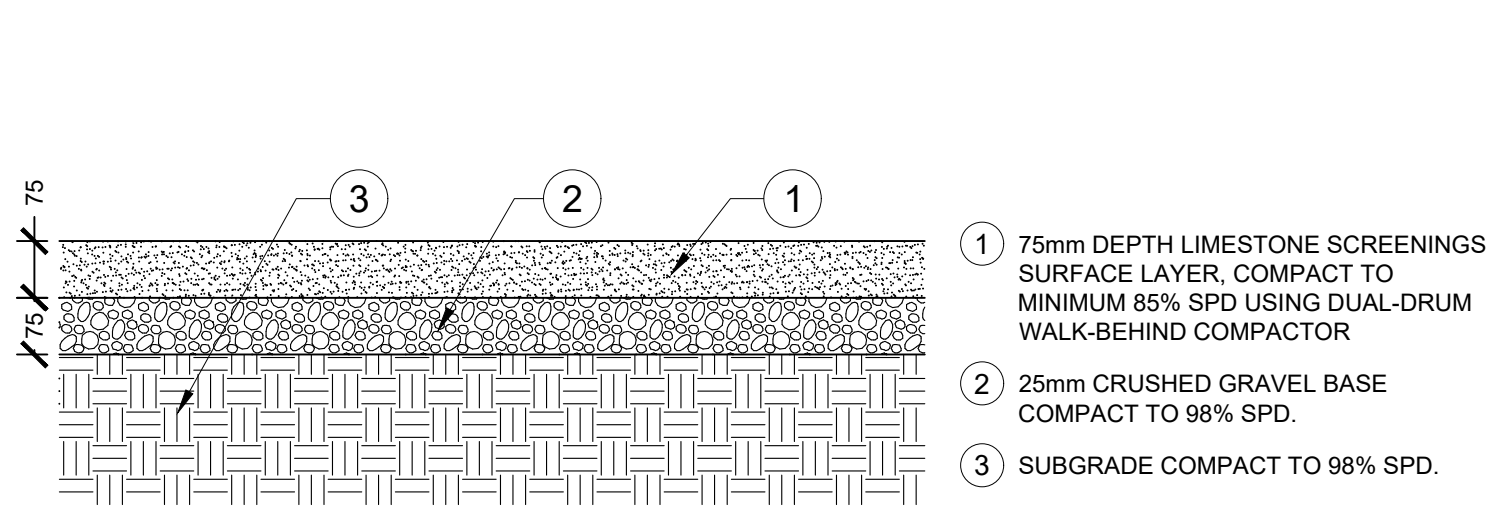
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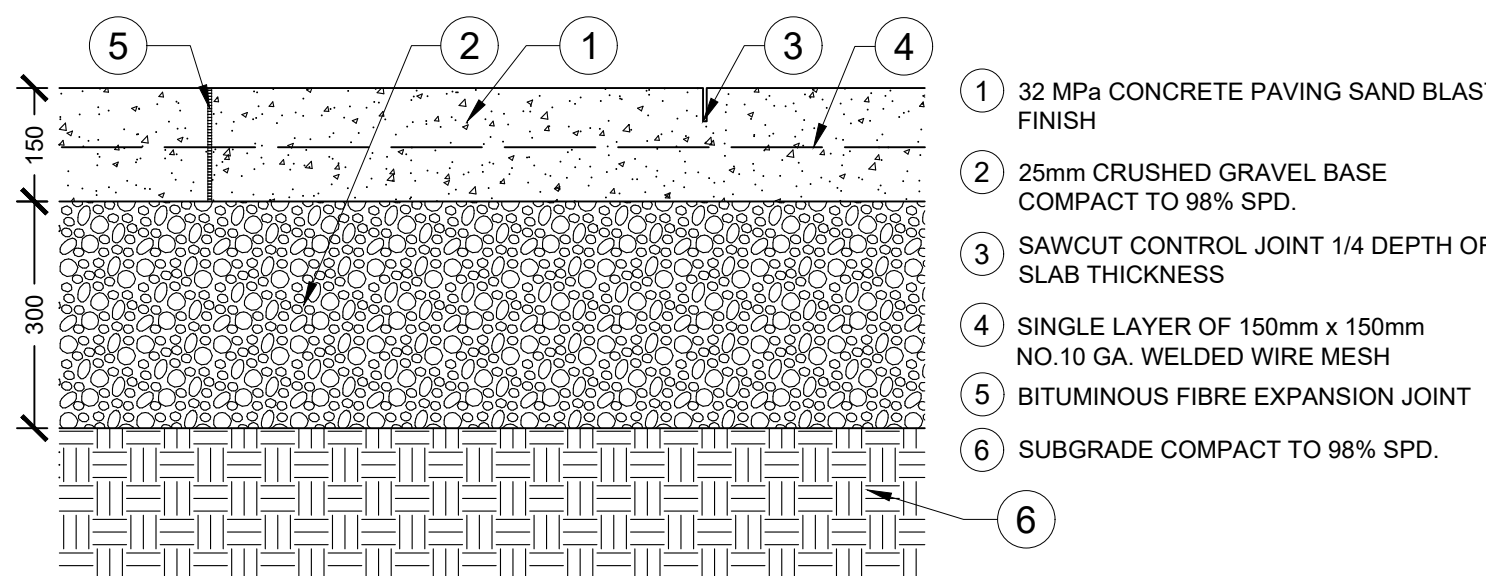
**LP-100**

DRUMHELLER DOWNTOWN PLAZA  
 210201

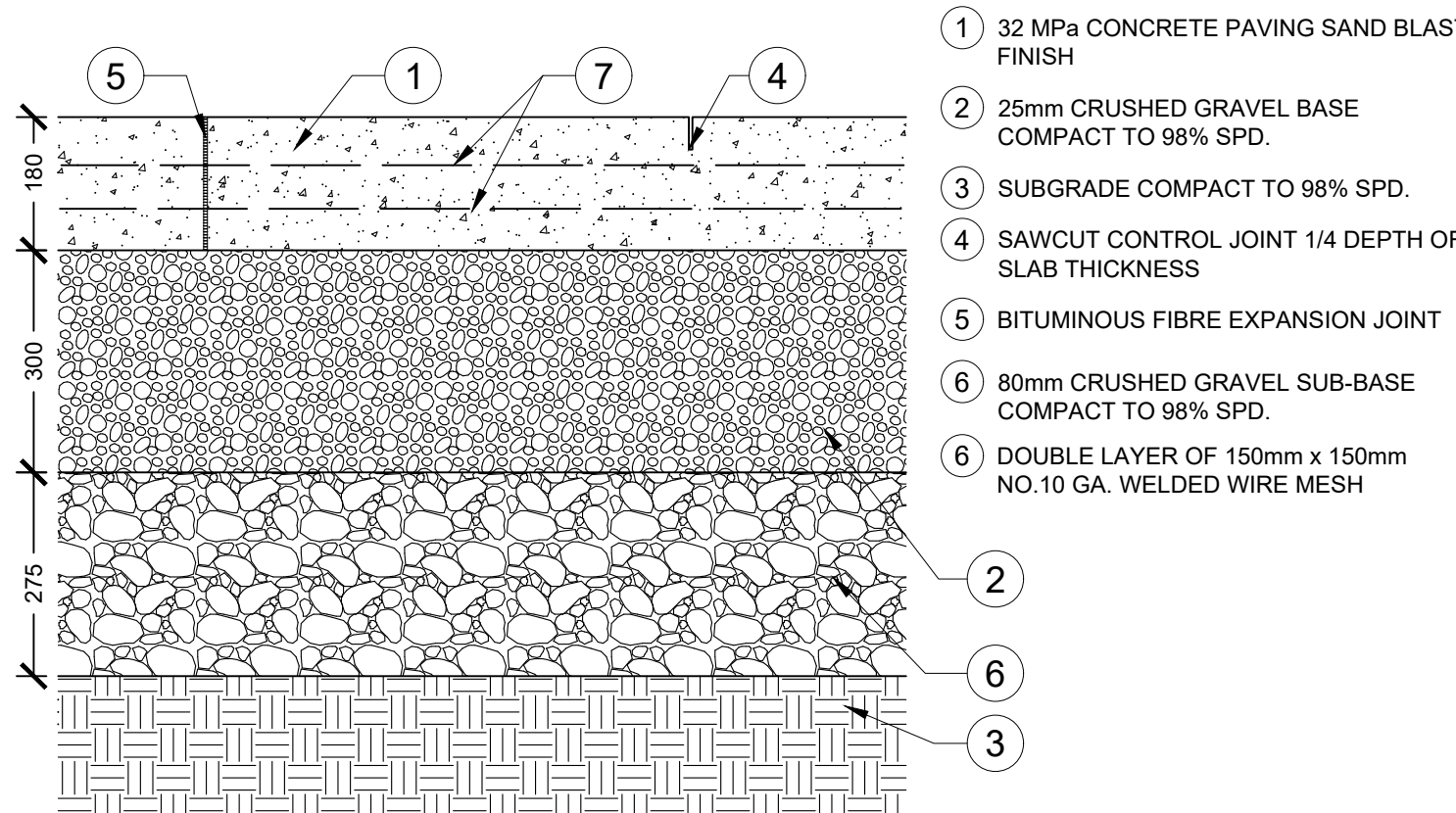
PROJECT  
**DRUMHELLER  
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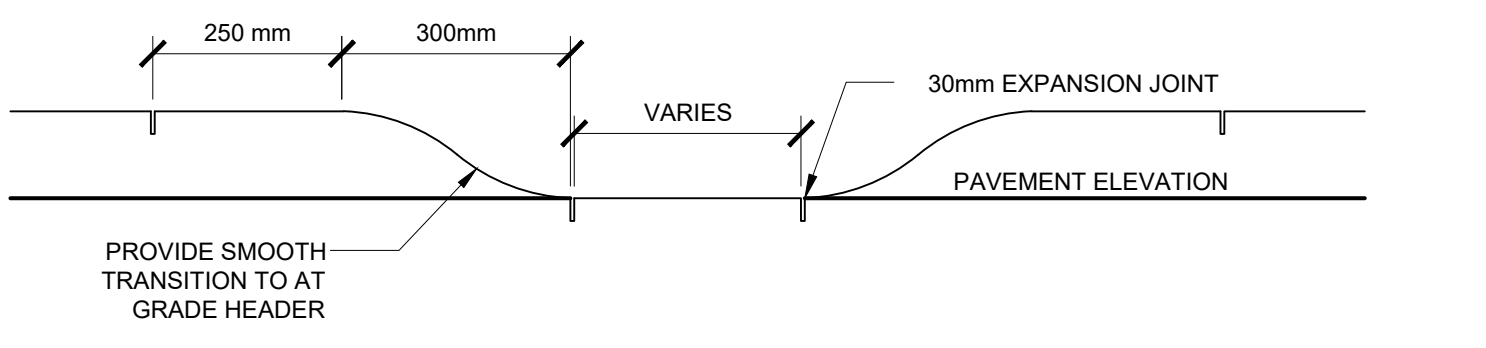
**1 LIMESTONE SCREENINGS**  
 1:10 P-O2-DRU-42



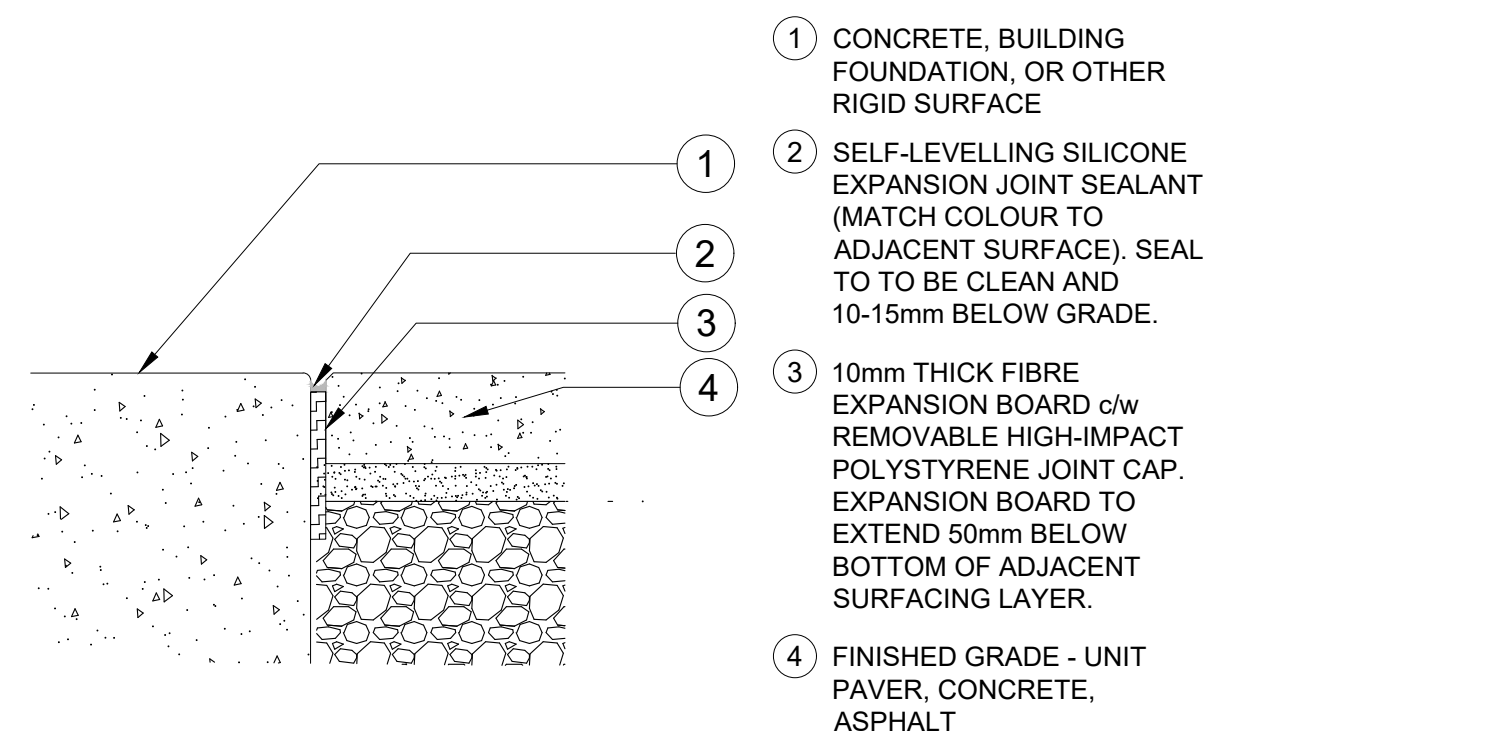
**2 CONCRETE PAVING - LIGHT DUTY**  
 1:10 P-O2-DRU-43



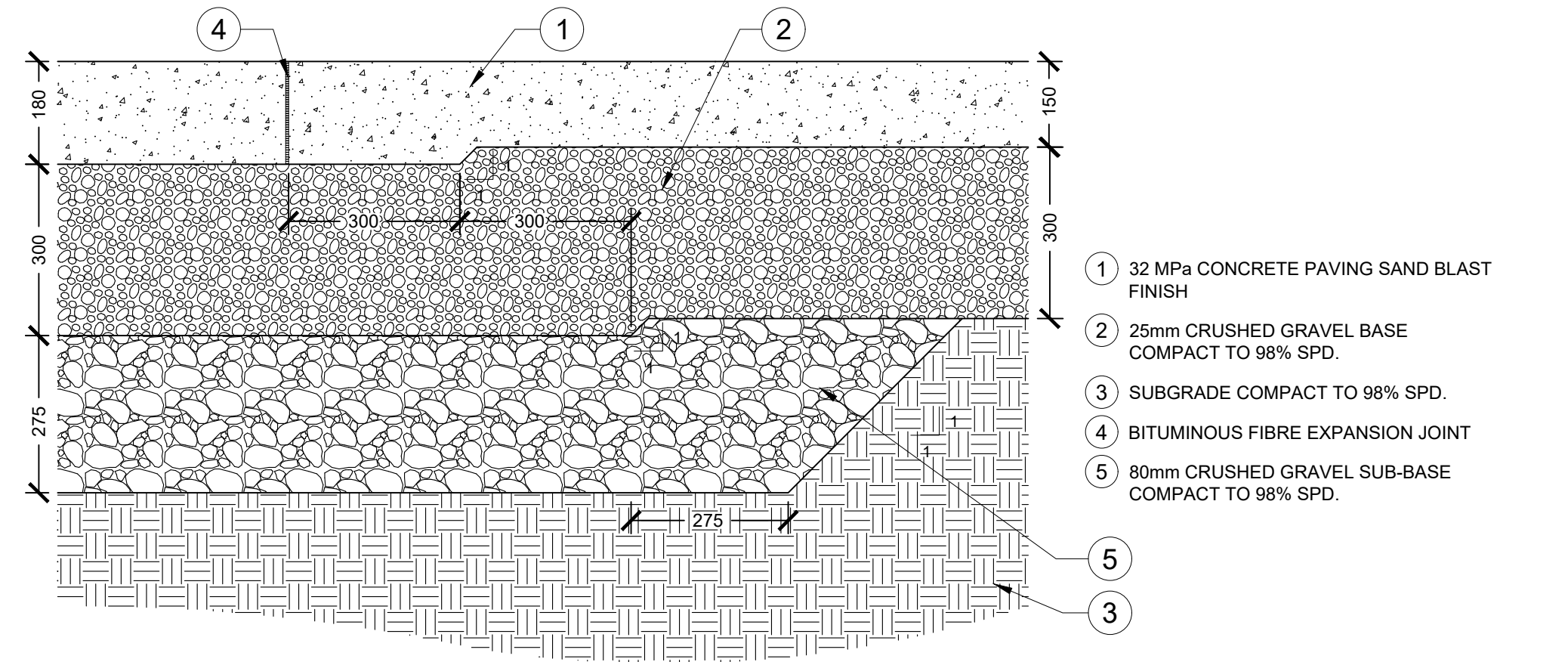
**3 CONCRETE PAVING - HEAVY DUTY**  
 1:10 P-O2-DRU-44



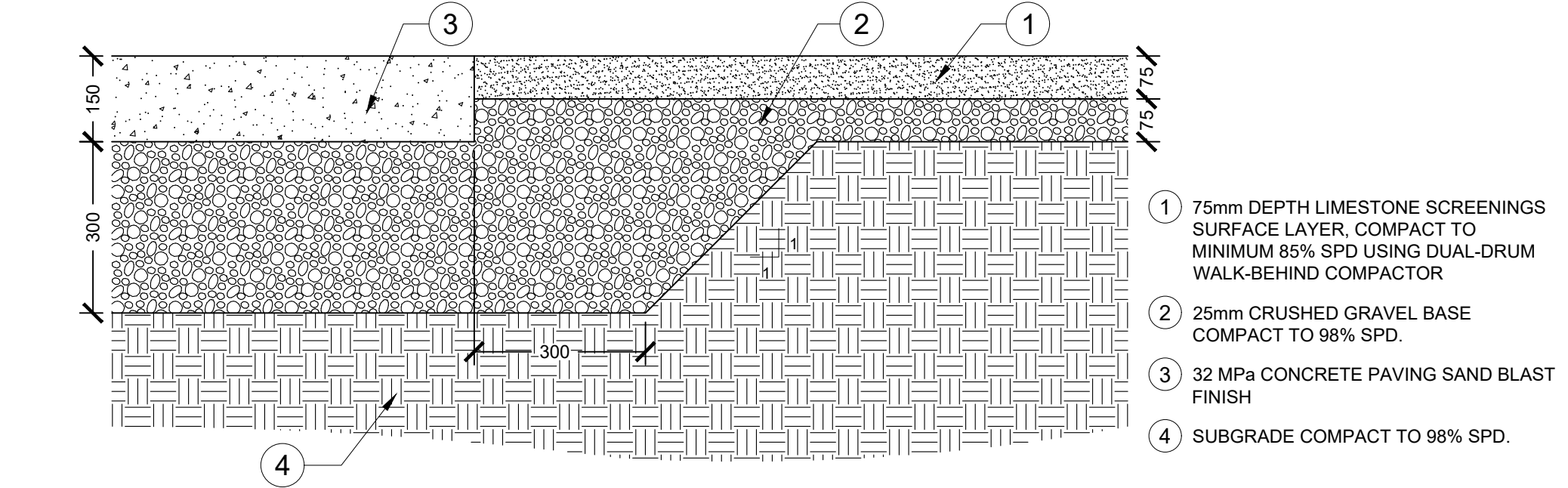
**7 CURB CUT**  
 1:10 P-O2-DRU-21



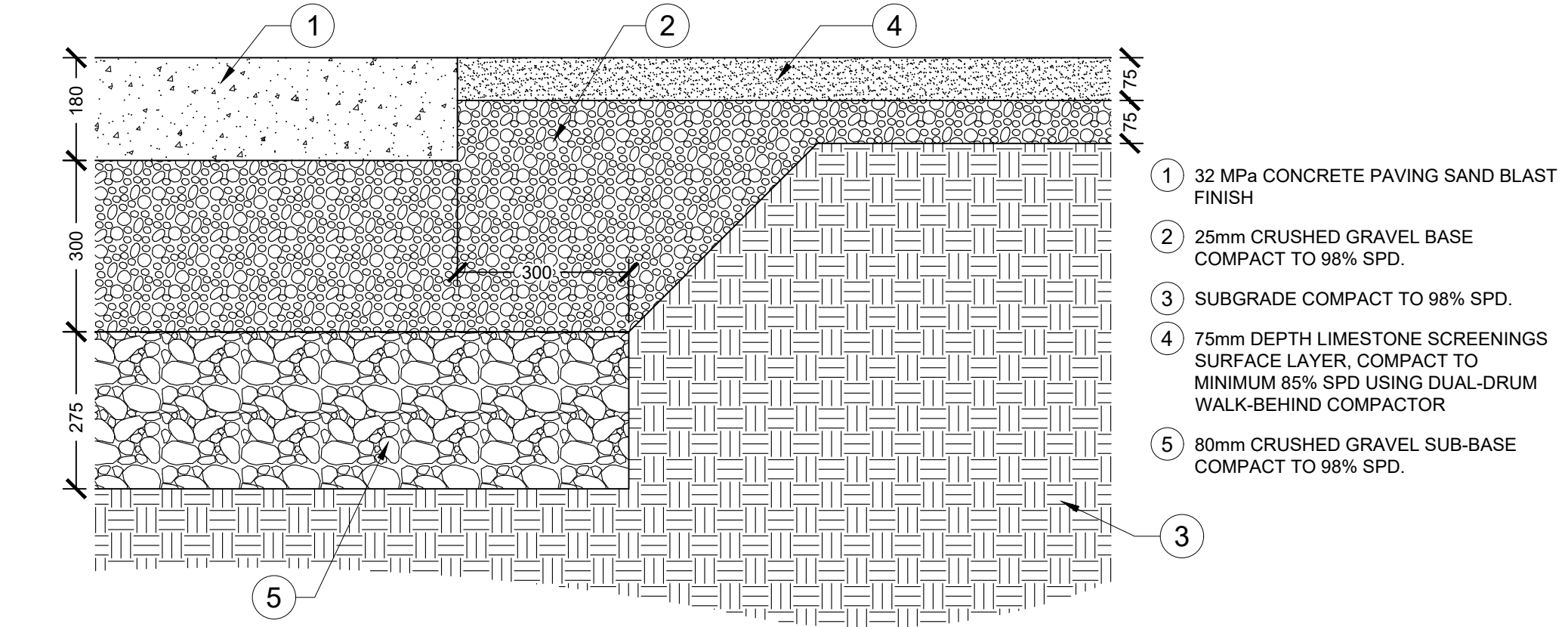
**8 EXPANSION JOINT**  
 1:5 P-O2-DRU-33



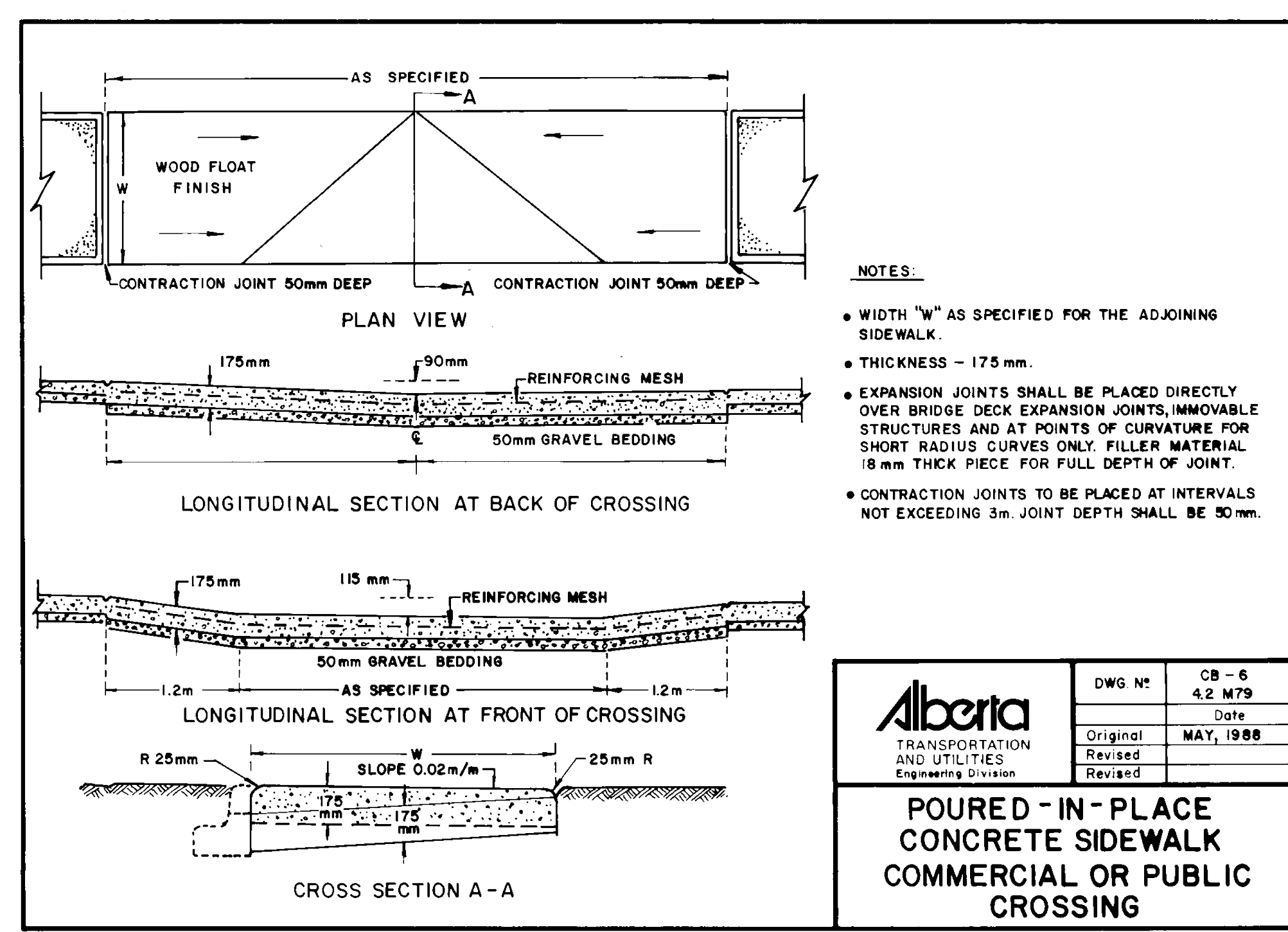
**4 TRANSITION - LIGHT DUTY TO HEAVY DUTY CONCRETE**  
 1:10 P-O2-DRU-45



**5 TRANSITION - LIGHT DUTY CONCRETE TO LIMESTONE SCREENING**  
 1:10 P-O2-DRU-46



**6 TRANSITION - HEAVY DUTY CONCRETE TO LIMESTONE SCREENING**  
 1:10 P-O2-DRU-47

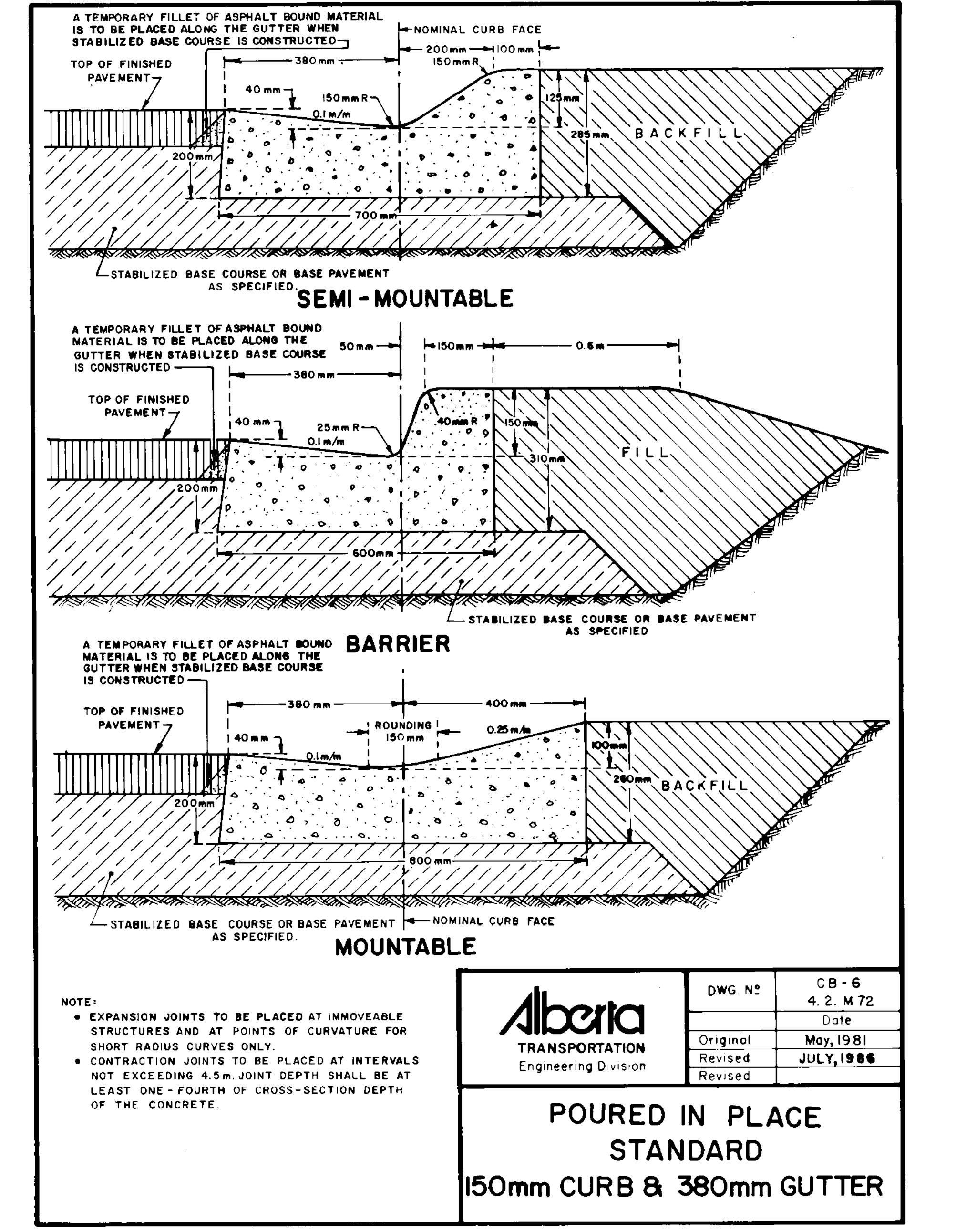


- NOTES:**
- WIDTH "W" AS SPECIFIED FOR THE ADJOINING SIDEWALK.
  - THICKNESS - 175 mm.
  - EXPANSION JOINTS SHALL BE PLACED DIRECTLY OVER BRIDGE DECK EXPANSION JOINTS, IMMOVABLE STRUCTURES AND AT POINTS OF CURVATURE FOR SHORT RADIUS CURVES ONLY. FILLER MATERIAL 18 mm THICK PIECE FOR FULL DEPTH OF JOINT.
  - CONTRACTION JOINTS TO BE PLACED AT INTERVALS NOT EXCEEDING 3m. JOINT DEPTH SHALL BE 50 mm.

<b>Alberta</b> TRANSPORTATION AND UTILITIES Engineering Division	DWG. NO.	CB - 6 4.2 M79
	Date	
	Original	MAY, 1988
	Revised	

**POURED-IN-PLACE  
 CONCRETE SIDEWALK  
 COMMERCIAL OR PUBLIC  
 CROSSING**

**9 SIDEWALK TRANSITIONS**  
 NTS P-O2-DRU-48



**NOTE:**

- EXPANSION JOINTS TO BE PLACED AT IMMOVABLE STRUCTURES AND AT POINTS OF CURVATURE FOR SHORT RADIUS CURVES ONLY.
- CONTRACTION JOINTS TO BE PLACED AT INTERVALS NOT EXCEEDING 4.5m. JOINT DEPTH SHALL BE AT LEAST ONE-FOURTH OF CROSS-SECTION DEPTH OF THE CONCRETE.

<b>Alberta</b> TRANSPORTATION Engineering Division	DWG. NO.	CB - 6 4.2 M72
	Date	
	Original	May, 1981
	Revised	JULY, 1986

**POURED IN PLACE  
 STANDARD  
 150mm CURB & 380mm GUTTER**

**10 CURB AND GUTTER**  
 NTS P-O2-DRU-49



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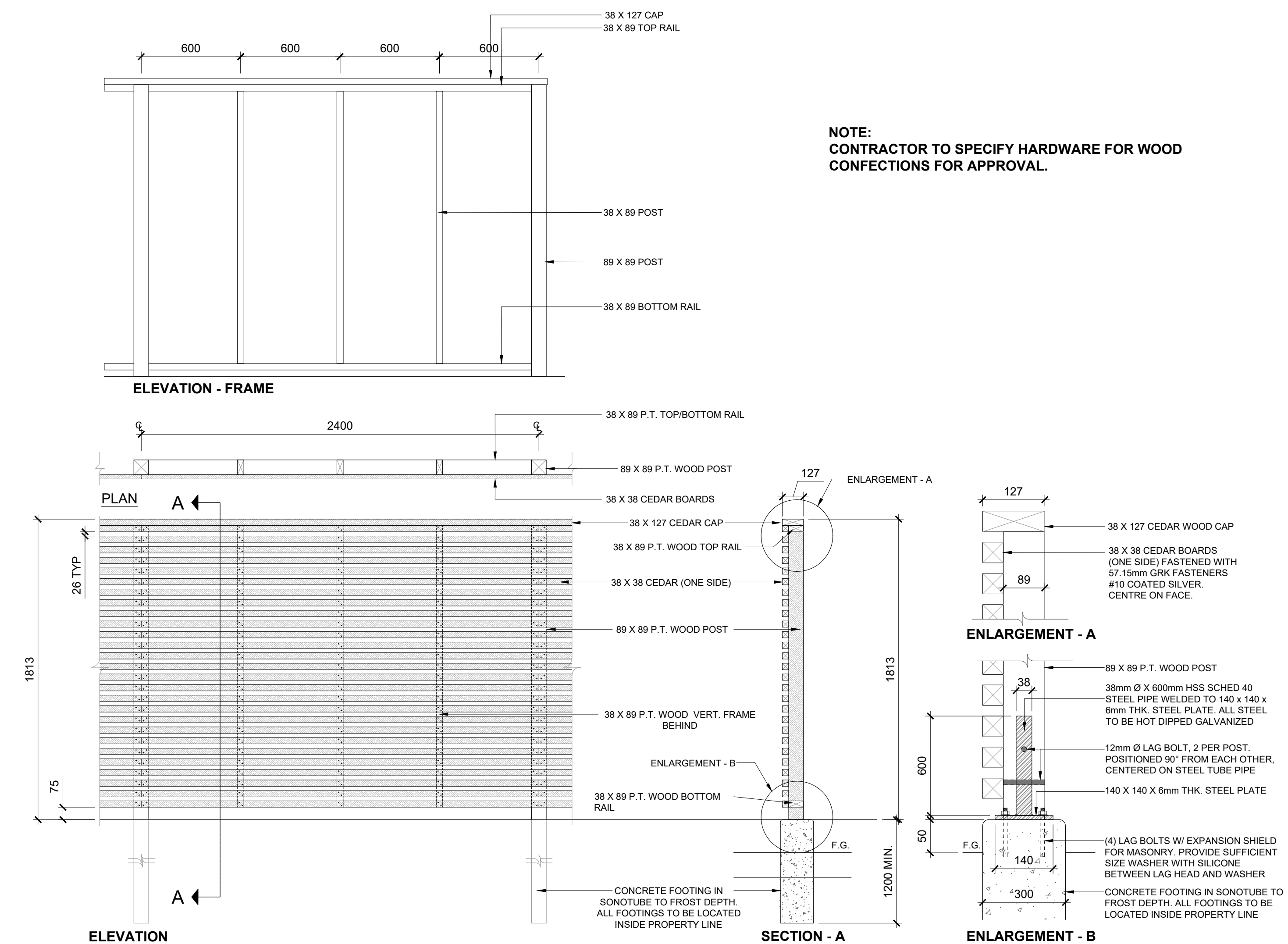
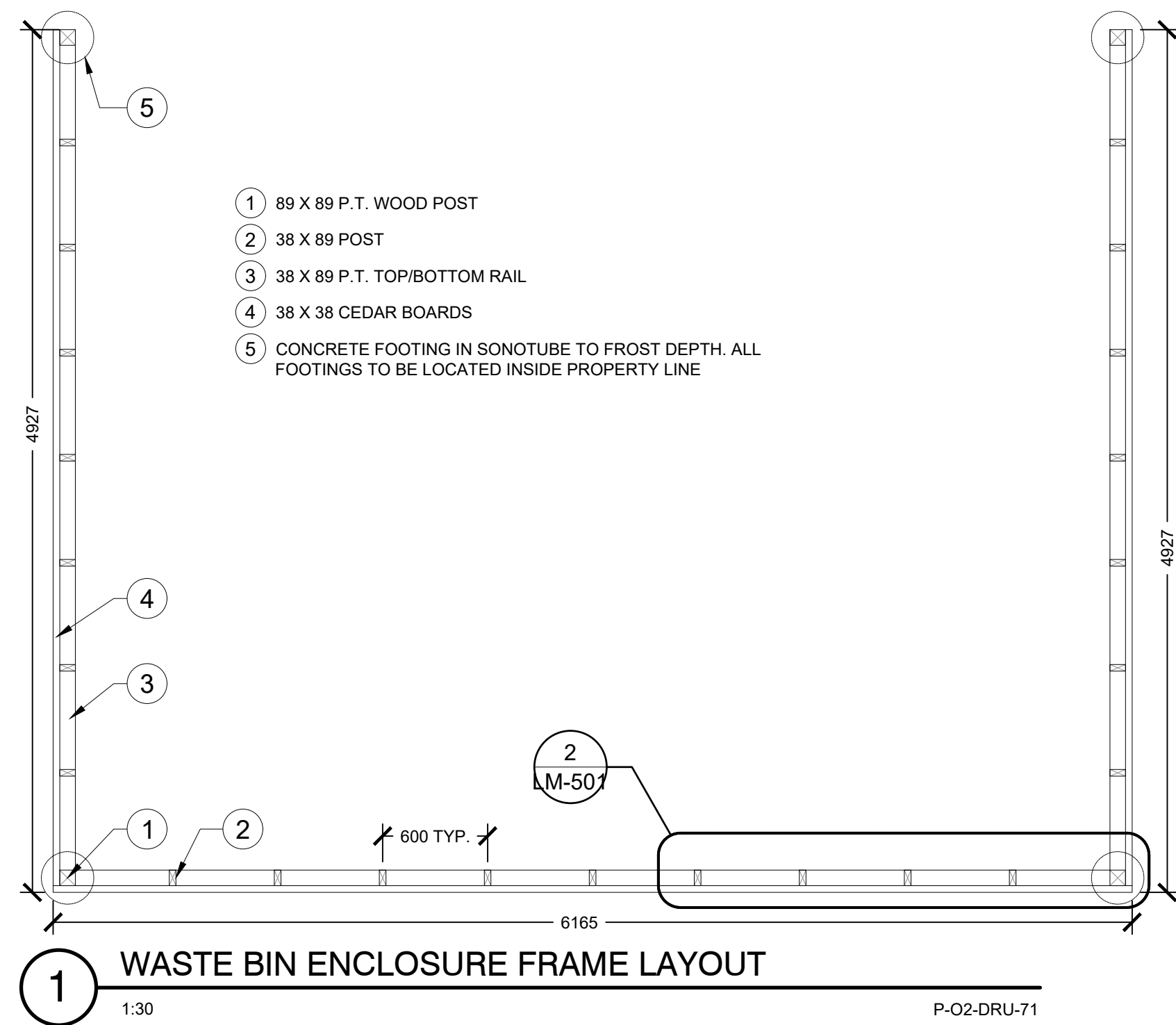
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DESIGNED BY: MW/LP  
 PLOT DATE: 2021-09-07  
 DRAWING FILE NAME: LM-500 PAVEMENT DETAILS.dwg

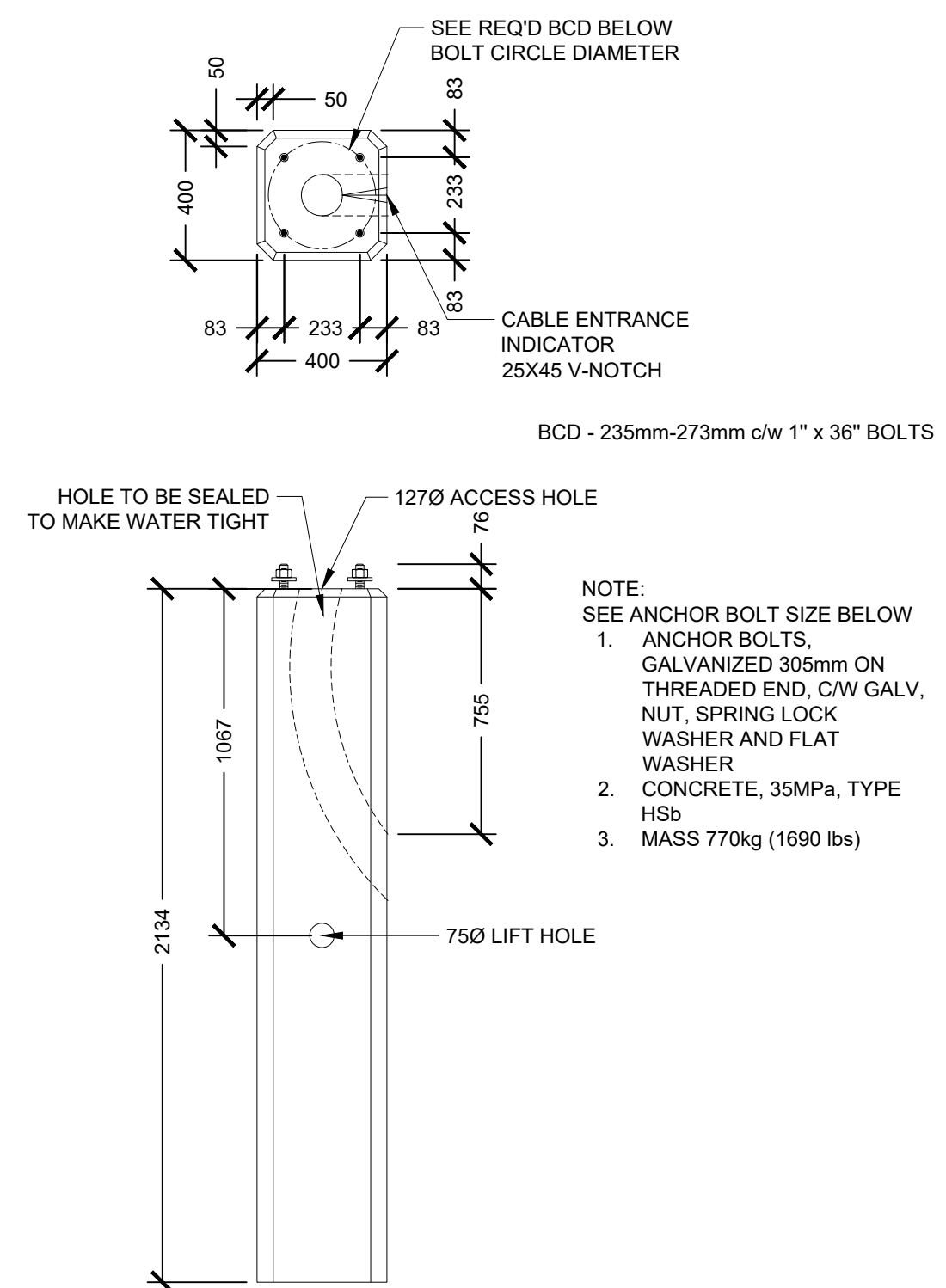
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**PAVEMENT DETAILS**

**LM-500**

**PROJECT**  
**DRUMHELLER**  
**DOWNTOWN PLAZA**  
 FOR  
 MUNICIPALITY OF DRUMHELLER



**2** WASTE BIN ENCLOSURE FENCE  
 1:20 P-O2-DRU-71



**3** LIGHT POLE BASE  
 1:20 P-O2-DRU-51

**SC655 SERIES SCOPO - LED**

**LUMINAIRE SELECTION**

**LED LIGHT SELECTION**

**REFLECTORS**

**VOLTAGE**

**FINISH**

**OPTIONAL COLORS**

**OPTIONS** (refer to page 3 for details)

**LIGHT & OPTICS**

**ACCESSORIES**

**MOUNTING**

**ACCESSORIES**

**NOTES**

**LUMINIS**

**4** LIGHT LUMINARIES  
 NTS P-O2-DRU-52

**QUALITY POLE**

**5' Straight Round Pole Steel**

**QP5RS**

Category No.	Peak Ht (ft)	Peak Wt (lbs)	Wind Thrust	Peak Type	S.C.D. (mm)	Anchor Bolt Sz.	60 MPR	80 MPR	100 MPR	110 MPR
QP5RS100	12	89	0.125	SD	250.0-275.0	1/2"x30"	24.2	26.5	34.4	11.4
QP5RS150	15	139	0.125	SD	250.0-275.0	1/2"x30"	34.4	37.1	47.1	16.0
QP5RS200	20	194	0.125	SD	250.0-275.0	1/2"x30"	47.1	50.8	64.5	22.0
QP5RS250	25	228	0.188	HD	250.0-275.0	1/2"x30"	54.4	59.0	74.0	25.0
QP5RS300	30	283	0.125	SD	250.0-275.0	1/2"x30"	74.0	79.6	100.0	33.0
QP5RS350	35	352	0.188	HD	250.0-275.0	1/2"x30"	84.8	91.5	114.0	37.0
QP5RS400	40	421	0.125	SD	250.0-275.0	1/2"x30"	104.4	112.1	140.0	45.0
QP5RS450	45	490	0.188	HD	250.0-275.0	1/2"x30"	115.2	124.0	156.0	50.0
QP5RS500	50	559	0.125	SD	250.0-275.0	1/2"x30"	134.8	144.6	181.0	58.0
QP5RS550	55	628	0.188	HD	250.0-275.0	1/2"x30"	145.6	156.4	198.0	65.0
QP5RS600	60	697	0.125	SD	250.0-275.0	1/2"x30"	165.2	176.0	222.0	73.0
QP5RS650	65	766	0.188	HD	250.0-275.0	1/2"x30"	176.0	187.8	238.0	81.0
QP5RS700	70	835	0.125	SD	250.0-275.0	1/2"x30"	195.6	207.4	264.0	89.0
QP5RS750	75	904	0.188	HD	250.0-275.0	1/2"x30"	206.4	219.2	278.0	97.0

**ORDER ENTRY OPTIONS**

**ORDER INFORMATION**

**SALES @ QUALITYPOLE.CA**

QUALITY . SERVICE . EXPERIENCE . AT ALL TIMES .

**5** LIGHT POLE  
 NTS P-O2-DRU-53

**200 SERIES**

**MTR-0200-00007**  
 Legacy # MLWR200-20-ST

**DESCRIPTION:** 200 Series - 200 Trash Receptacle: Heavy Duty Steel Flat Bar Frame, Metal Lid, 1 x 20 Gallon Polyethylene Liner

**FINISH:** All steel components are protected with E-Coat rust proofing. The Maglin Powdercoat System provides a durable finish on all metal surfaces.

**INSTALLATION:** The trash container is delivered pre-assembled. Holes (0.5") are provided in each mounting foot for securing to base.

**TO SPECIFY:** Select MTR-0200-00007. Choose: - Powdercoat Color

**HEIGHT:** 38" (96.5cm) **OUTER RADIUS:** 25" (63.5cm) **WEIGHT:** 170lbs (77kg)

**TOP VIEW**

**MAGLIN**

**6** WASTE RECEPTACLE  
 NTS P-O2-DRU-58

**ISSUED FOR: TENDER**  
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1	ISSUED FOR TENDER	2021-09-08	

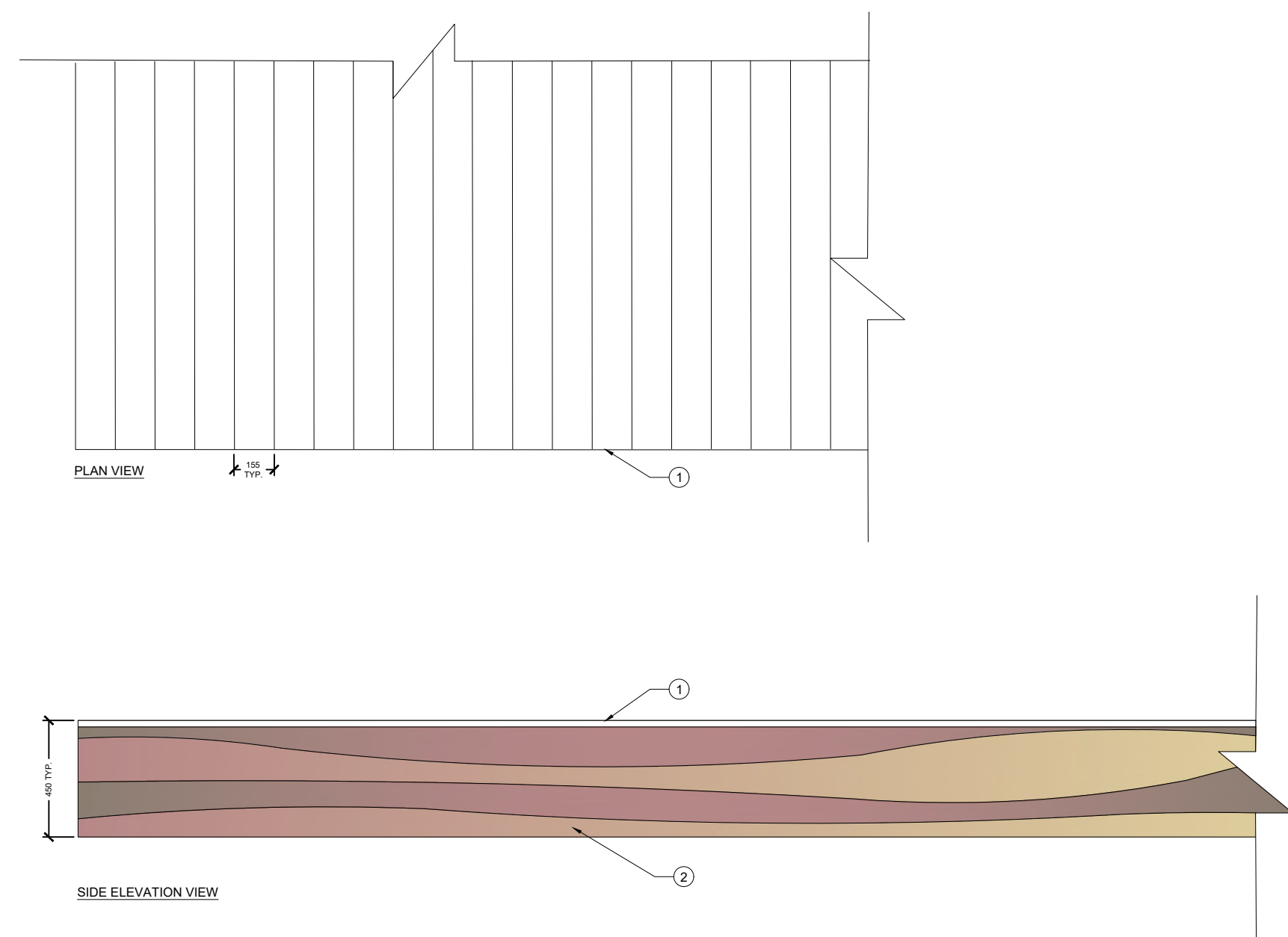
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**PLOT DATE:** 2021-09-04  
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**DRAWING TITLE:**  
**SITE FEATURES DETAILS**

**LM-501**

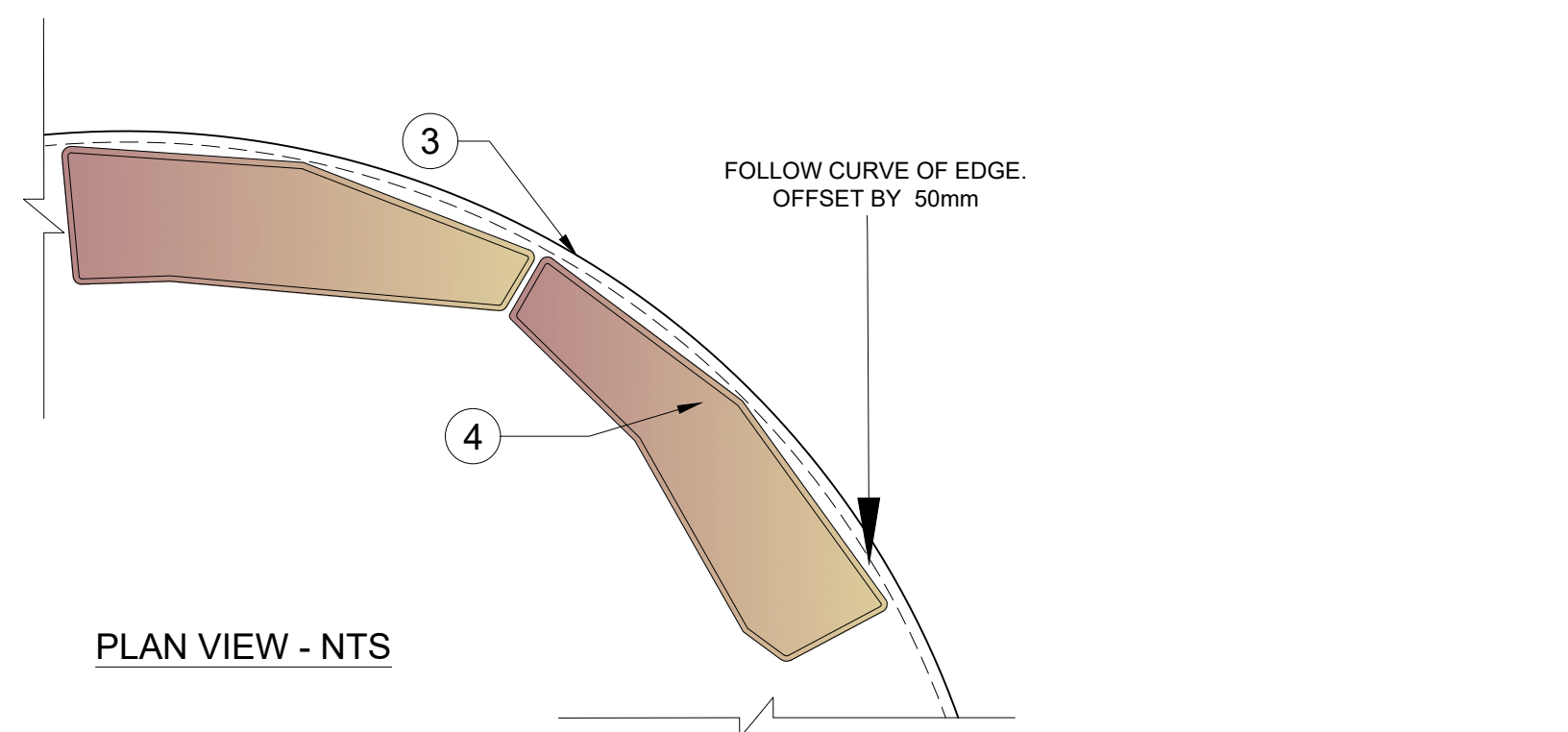
DRUMHELLER DOWNTOWN PLAZA  
 210201

**PROJECT**  
**DRUMHELLER**  
**DOWNTOWN PLAZA**  
 FOR  
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**1 STAGE PLACEHOLDER**

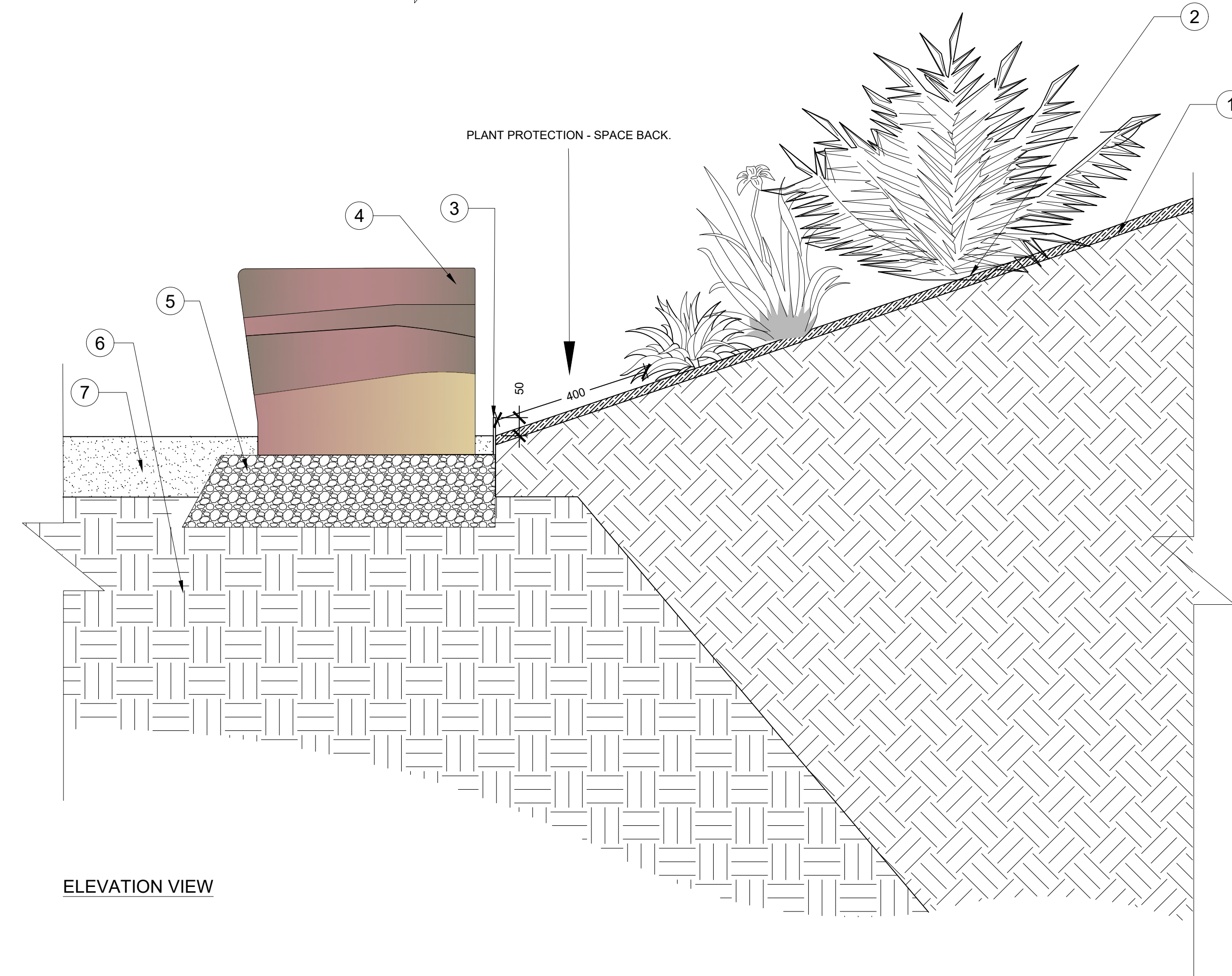
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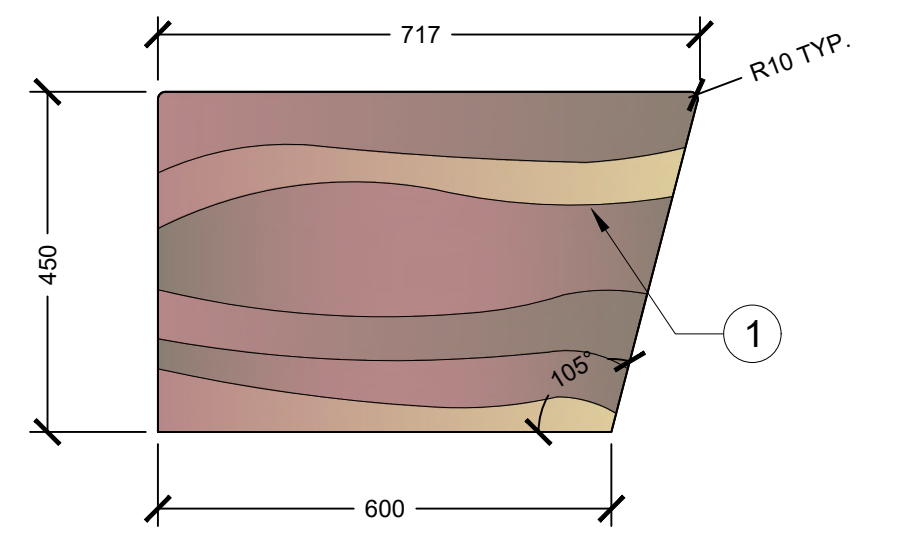
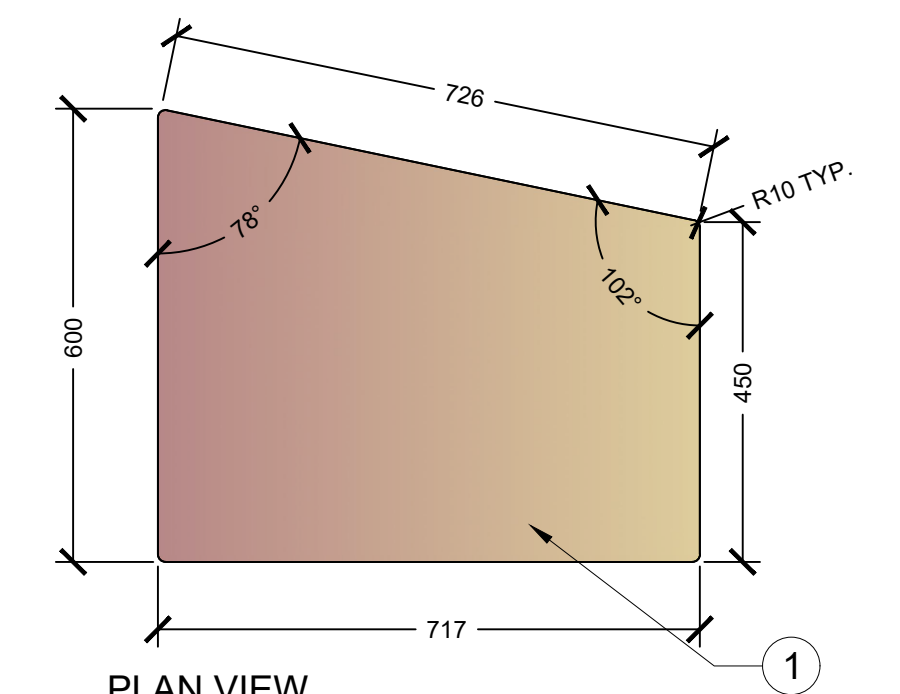
**2 RAMMED EARTH PLANTER BENCH**

1:10

P-02-DRU-40



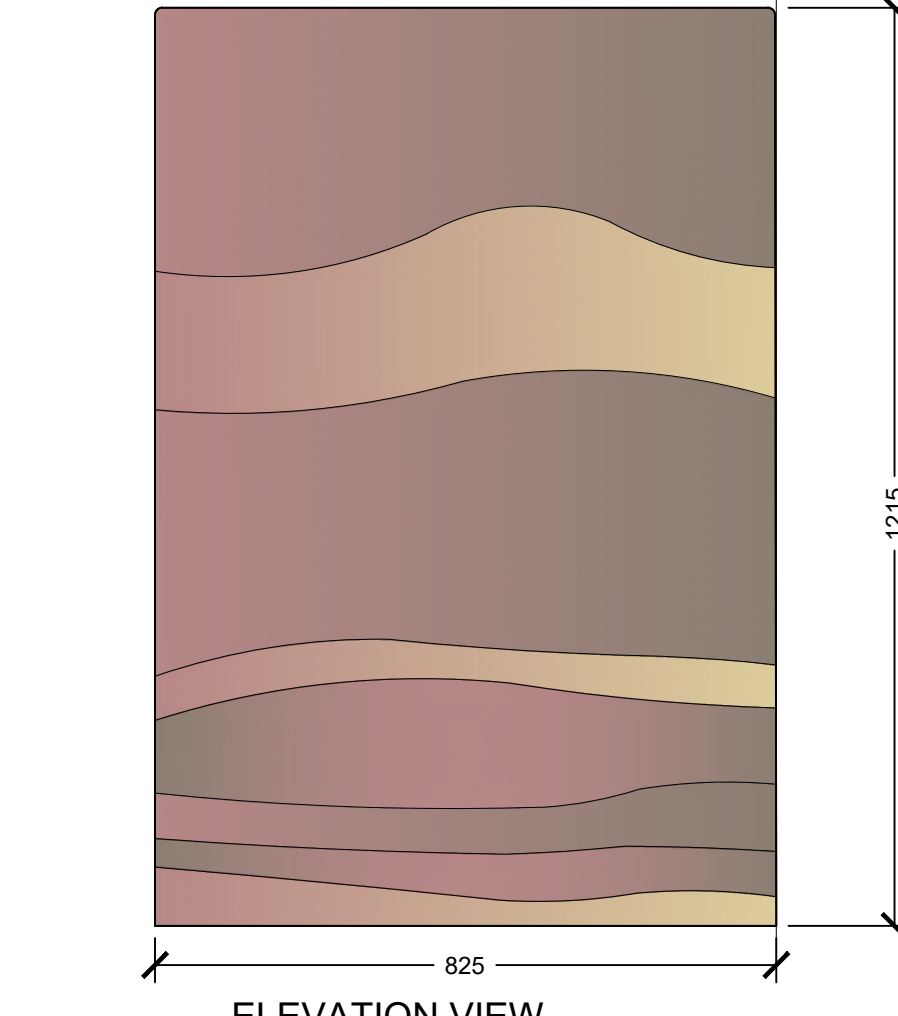
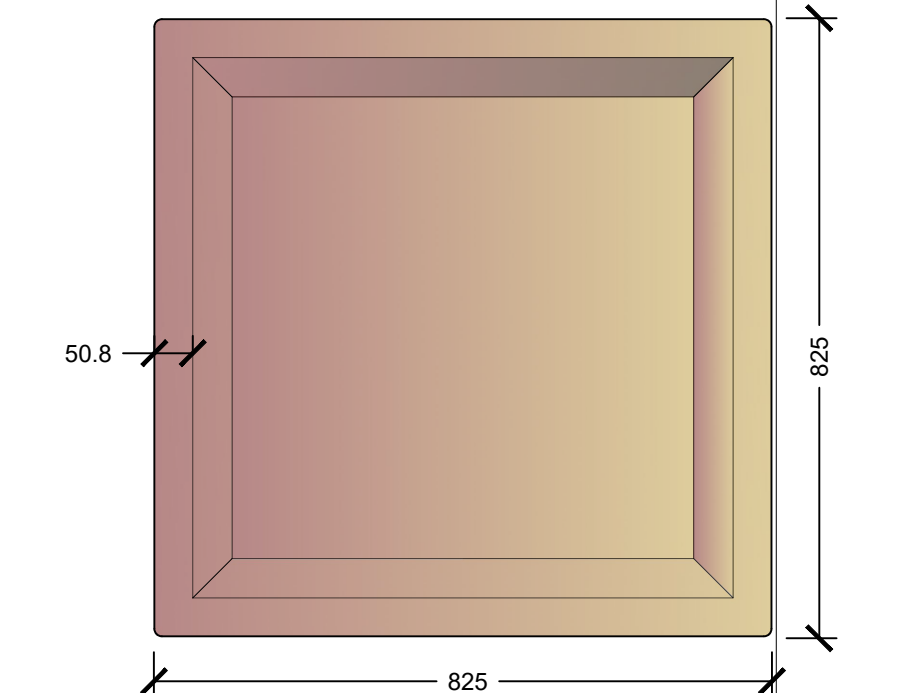
- 1 FINISHED PLANTER BED MULCHED GRADE.
- 2 PLANT PERENNIALS SO ROOT BALL IS BURIED WITH TOP LIGHTLY COVERED - TAMP DOWN BY HAND.
- 3 CORTEN WEATHERING STEEL PLANTER EDGING 50mm ABOVE MULCH. SEE SPECIFICATIONS.
- 4 RAMMED EARTH BENCH. SEE SPECIFICATIONS.
- 5 RAMMED EARTH BENCH FOOTING. GRANULAR SUBBASE. SEE SPECIFICATIONS.
- 6 UNDISTURBED SUBGRADE.
- 7 DECORATIVE AGGREGATE FINES. SEE SPECIFICATIONS.



**3 CUSTOM RAMMED EARTH SEAT - SMALL**

1:10

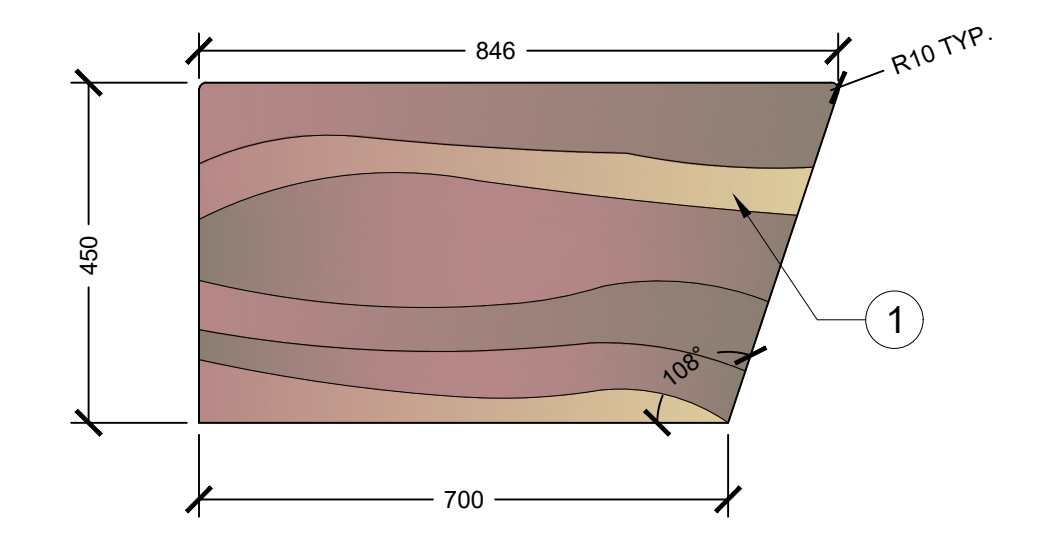
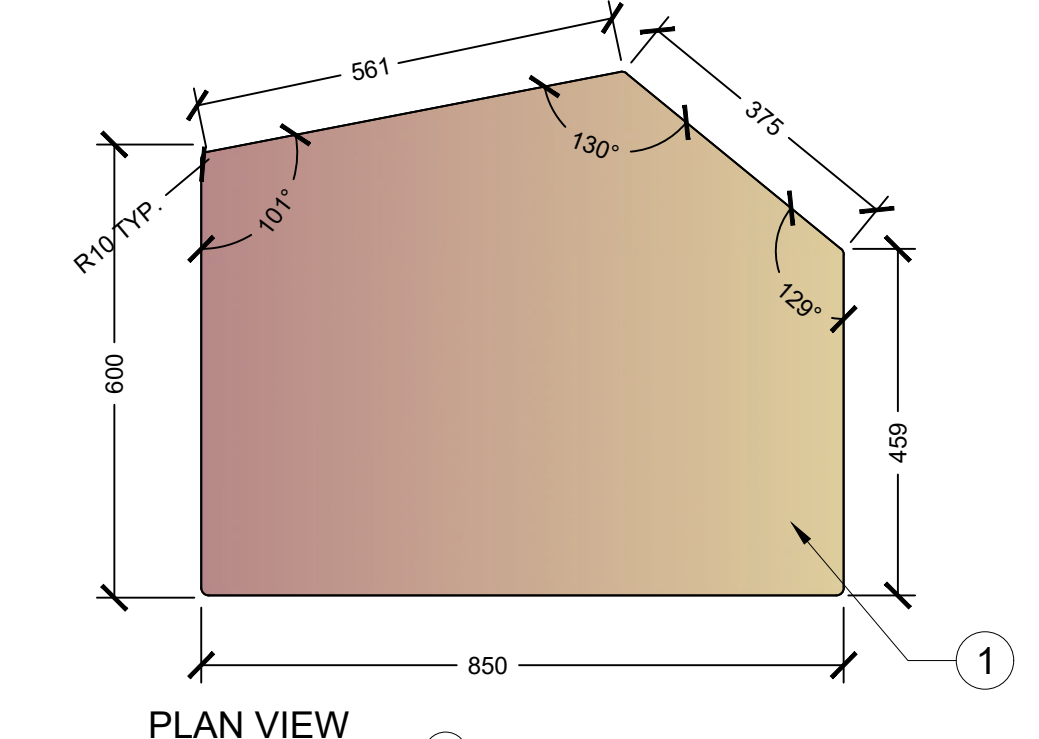
P-02-DRU-64



**4 CUSTOM RAMMED EARTH PLANTER**

1:10

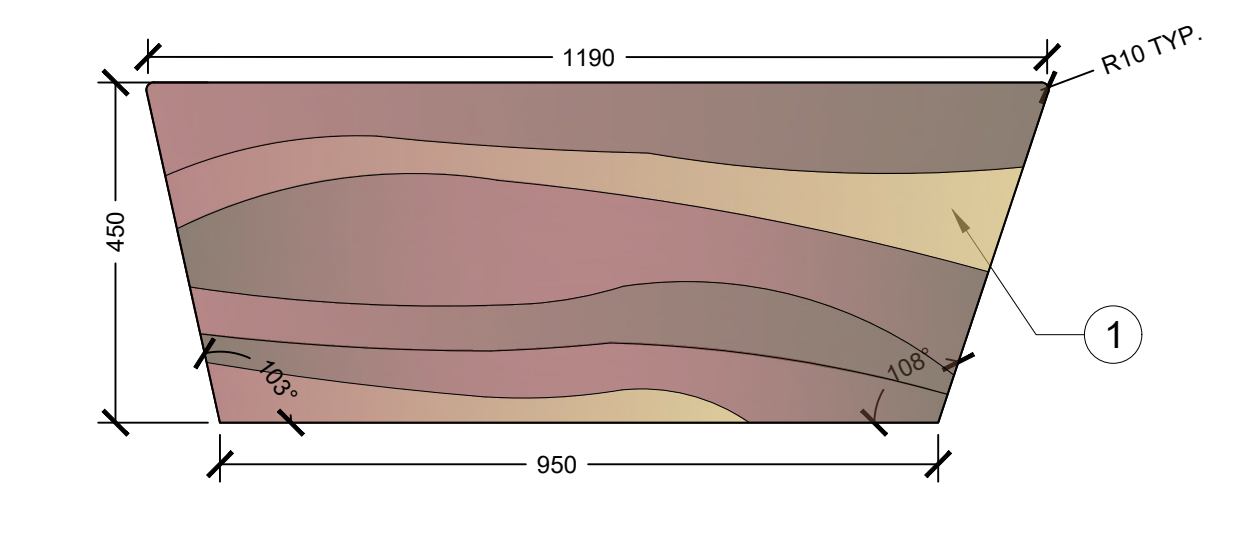
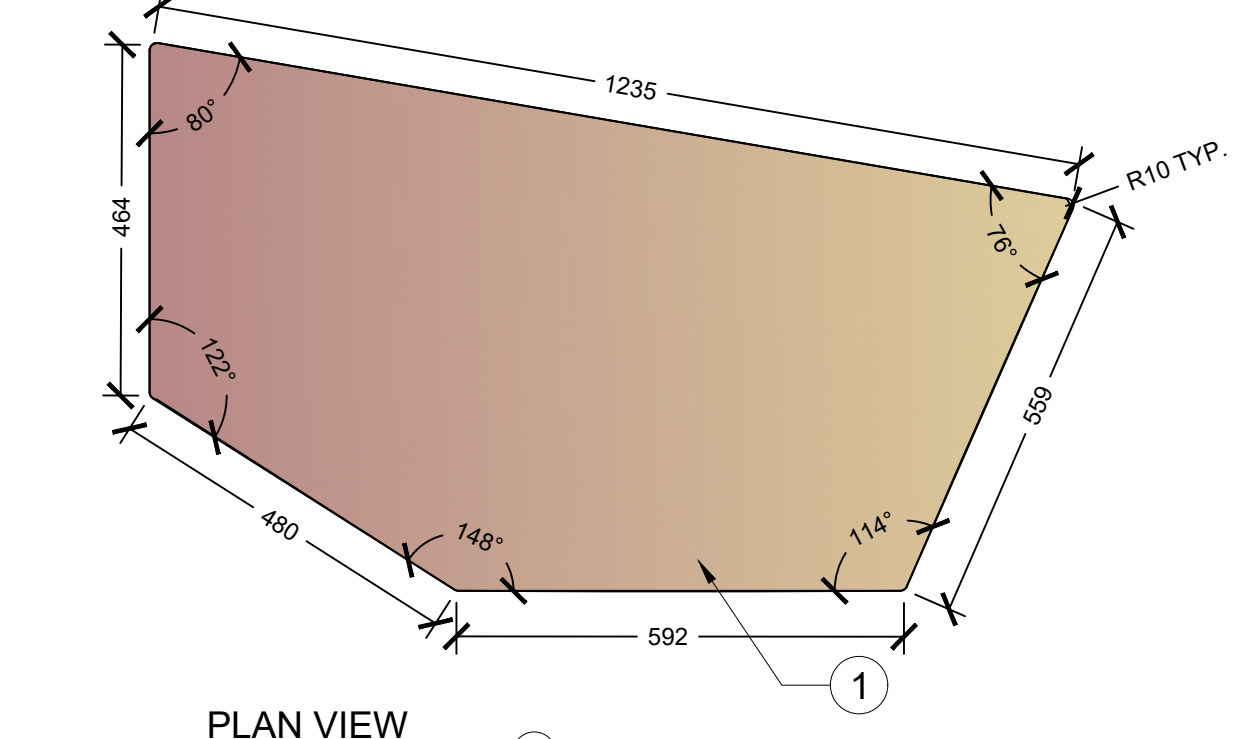
P-02-DRU-70



**5 CUSTOM RAMMED EARTH SEAT - MEDIUM**

1:10

P-02-DRU-65



**6 CUSTOM RAMMED EARTH SEAT - LARGE**

1:10

P-02-DRU-66



ISSUED FOR: TENDER  
 DATE: 2021-09-08

REVISIONS:	NO.	DESCRIPTION.	DATE.	BY.

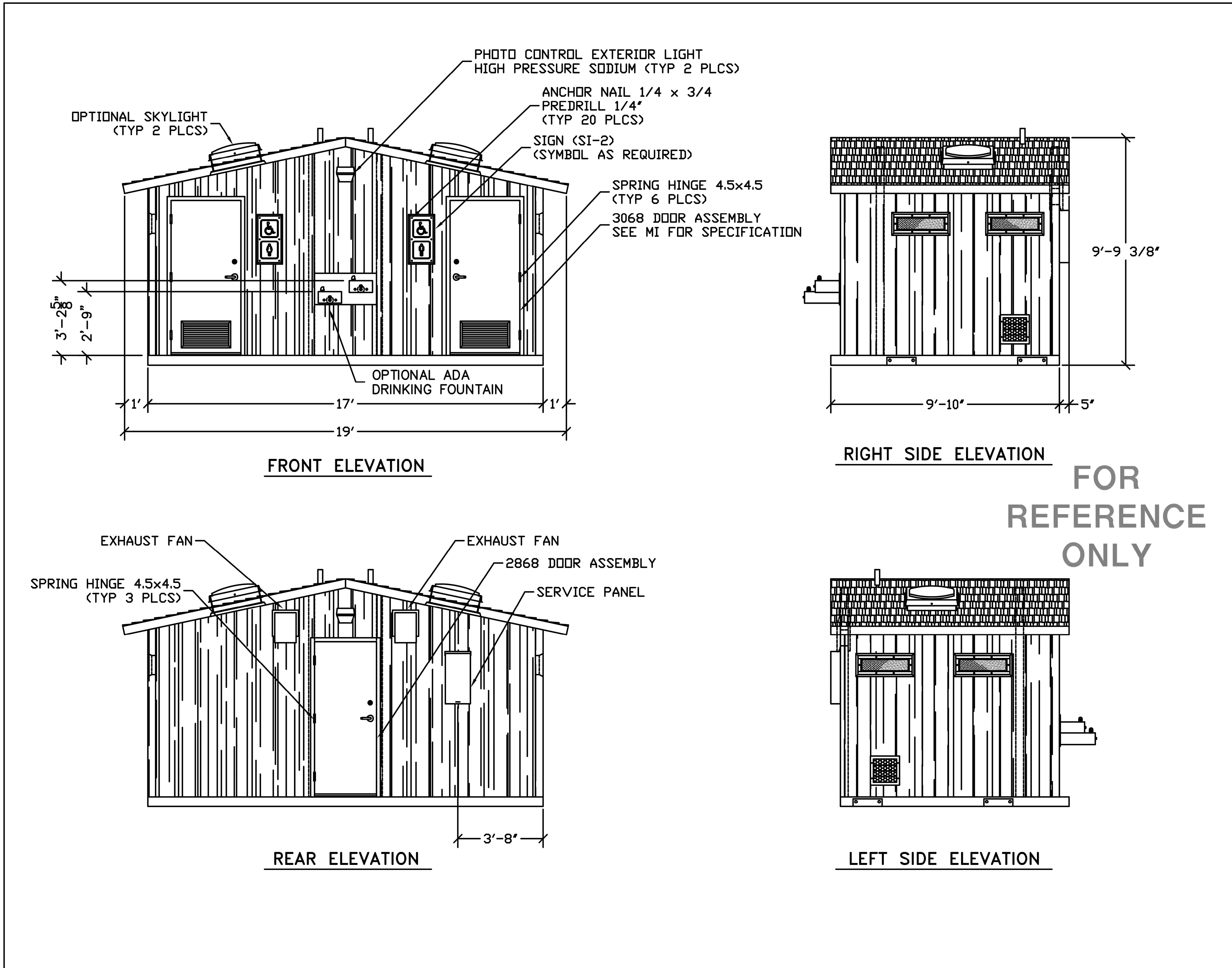
DESIGNED BY: MW/LP  
 PLOT DATE: 2021-09-07  
 DRAWING FILE NAME:  
 LM-502 SITE FEATURES DETAILS.dwg

CHECKED BY: MW

DRAWING TITLE:  
**SITE FURNITURE DETAILS**

**LM-502**





EMBEDDED MATERIALS			
ITEM	QTY	ITEM	QTY
SI-2	2		
SPRING HINGE 4.5x4.5	9		
3068 DOOR ASSEMBLY	2		
2868 DOOR ASSEMBLY	1		
ANCHOR NAIL 1/4x3/4	20		
CU. FT. CONC.	SG. FT. W.W.F.	APPROXIMATE WEIGHT	



PROJECT TITLE  
**CORTEZ**  
 CXT STANDARD BUILDING

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CXT Incorporated			

REV.	DESCRIPTION	APPROVAL	DATE
SCALE	1/4" = 1'-0"	DATE	04-28-08
DRAWN		FILE NO.	PD-CZ02
CHECKED		PLOT	48

<b>BUILDING ELEVATIONS</b>		
DWG NO.	SHEET	REV.
<b>CZ-02</b>		



ISSUED FOR: TENDER  
 DATE: 2021-09-08

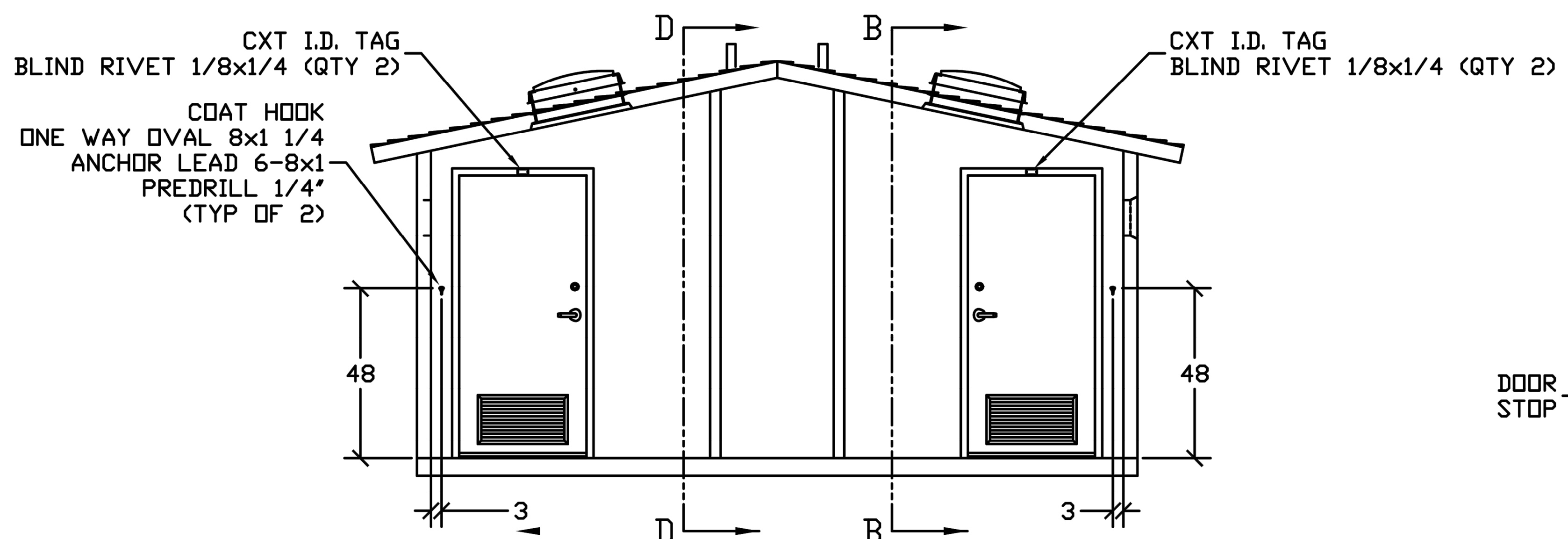
NO.	DESCRIPTION	DATE	BY

DESIGNED BY: MW/LP  
 PLOT DATE: 2021-09-07  
 DRAWING FILE NAME:  
 LM-503 WASHROOM DETAIL 1.dwg

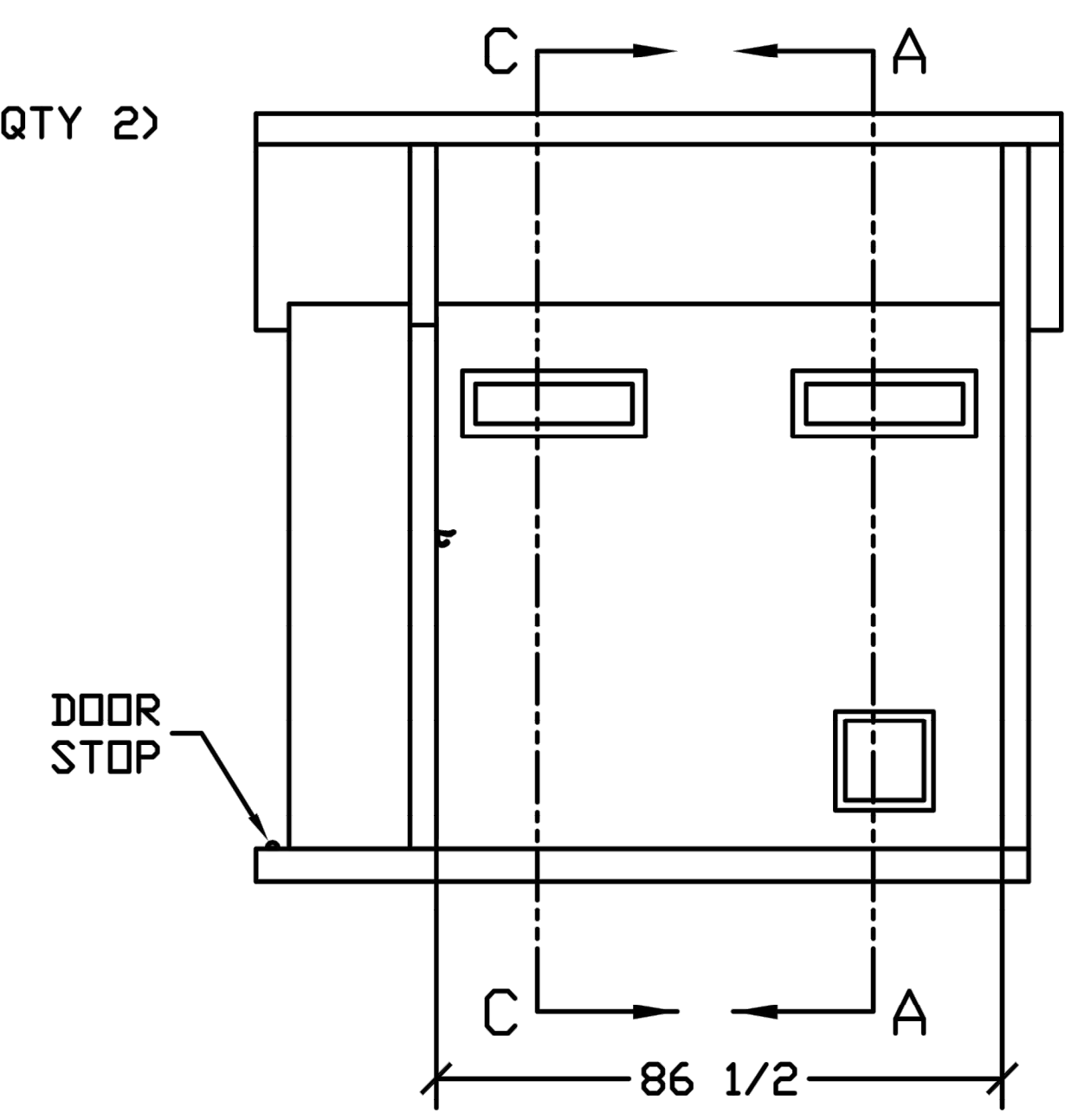
DRAWING TITLE:  
**WASHROOM DETAIL 1**

**LM-503**

PROJECT  
**DRUMHELLER  
 DOWNTOWN PLAZA**  
 FOR  
 MUNICIPALITY OF DRUMHELLER

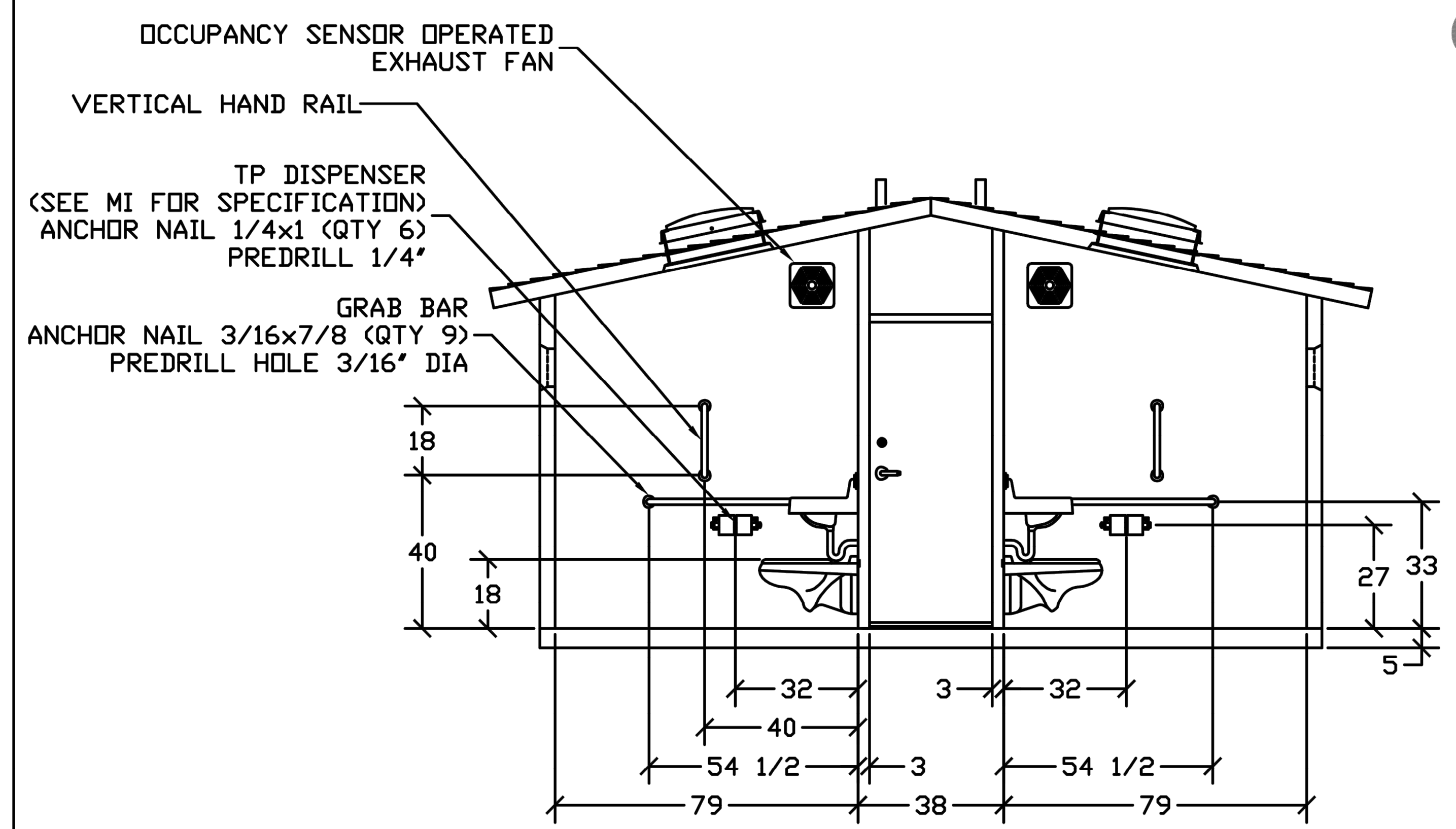


**SECTION A - A**

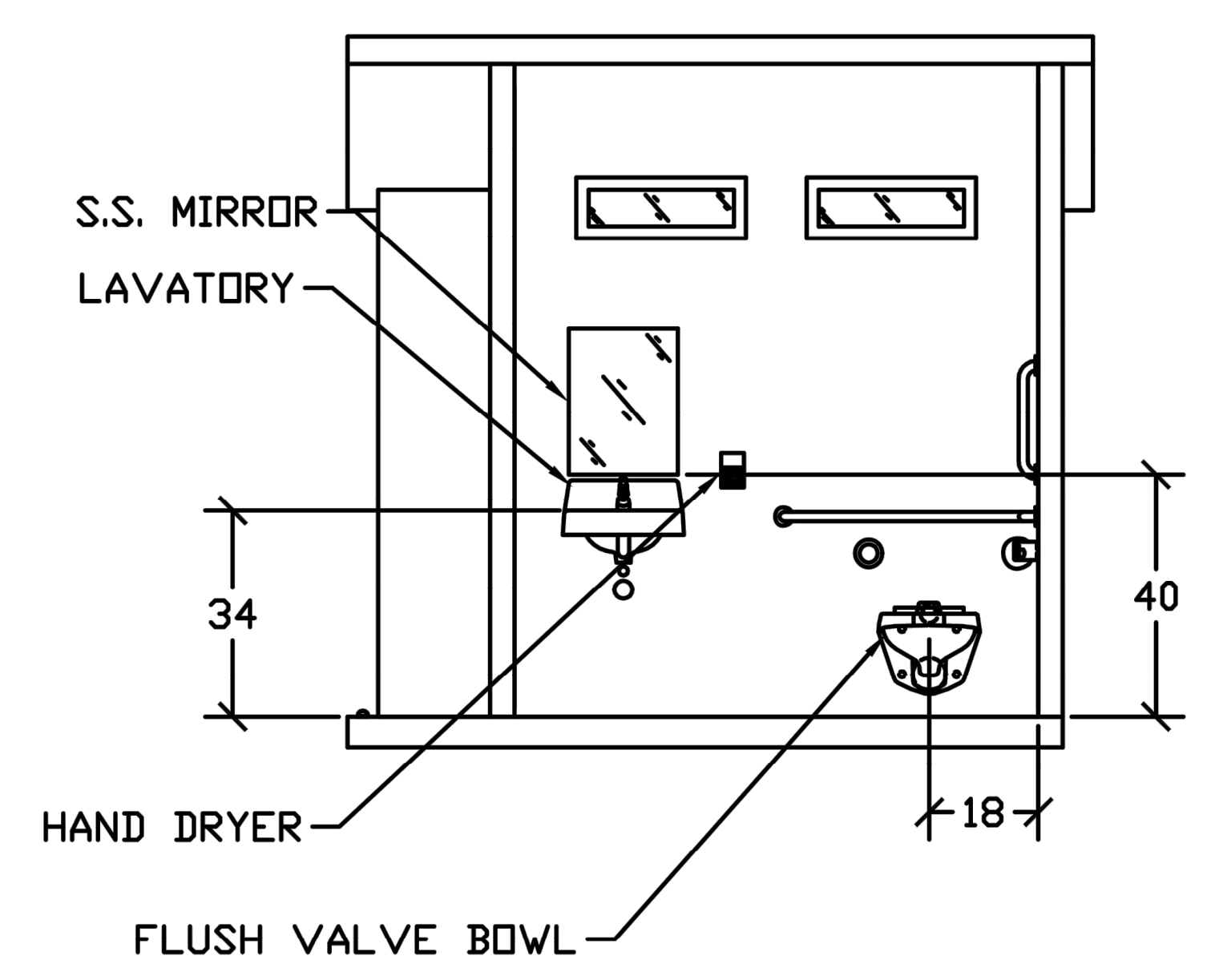


**SECTION B - B**

**FOR  
 REFERENCE  
 ONLY**



**SECTION C - C**



**SECTION D - D**

EMBEDDED MATERIALS			
ITEM	QTY	ITEM	QTY
BLIND RIVET 1/8x1/4	4		
GRAB BAR	2		
TP DISPENSER	2		
TOILET PAPER ROLL	4-6		
COAT HOOK	2		
DOOR STOP	2		
ONE WAY OVAL 8x1 1/4	4		
ANCHOR LEAD 6-8x1	4		
CXT I.D. TAG	2		
ANCHOR NAIL 1/4x1	12		
ANCHOR NAIL 1/4x3/4	8		
ANCHOR NAIL 3/16x7/8	18		
CU. FT. CONC.		SQ. FT. W.W.F.	APPROXIMATE WEIGHT

**CXT**  
 Precast Products

PROJECT TITLE  
**CORTEZ**  
 CXT STANDARD BUILDING

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REV.	DESCRIPTION	APPROVAL	DATE
SCALE	1/4"=1'-0"	DATE	03-28-05
DRAWN		FILE NO.	PD-CZ03
CHECKED		PLOT	48

DWG NO.	SHEET	REV.
<b>CZ-03</b>		



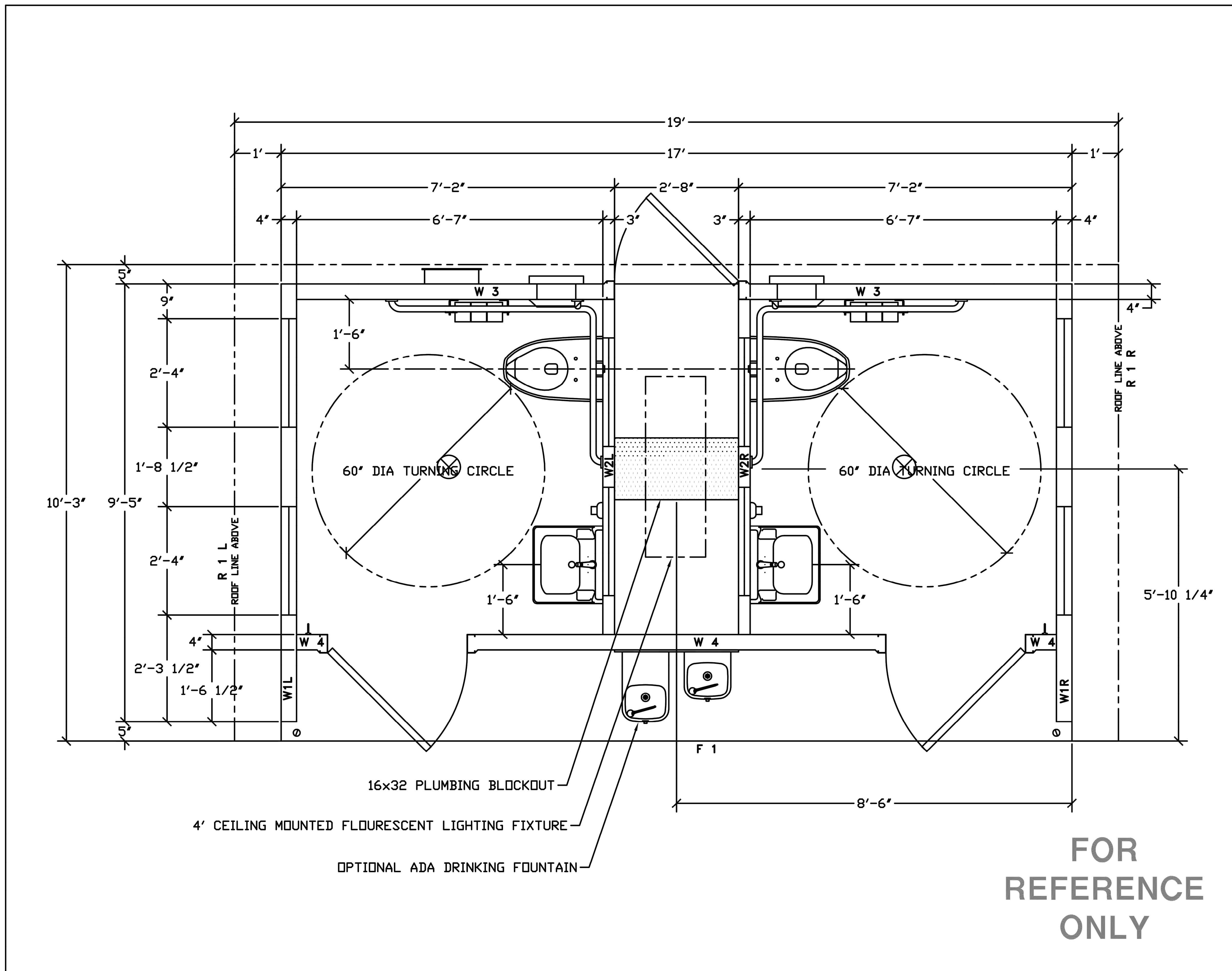
ISSUED FOR: TENDER  
 DATE: 2021-09-08

NO.	DESCRIPTION	DATE	BY
1	ISSUED FOR TENDER	2021-09-08	

DESIGNED BY: MW/LP  
 PLOT DATE: 2021-09-07  
 DRAWING FILE NAME:  
 LM-504 WASHROOM DETAIL 2.dwg

DRAWING TITLE:  
**WASHROOM DETAIL 2**

**LM-504**





**CXT**  
 Precast Products

PROJECT TITLE  
**CORTEZ**  
 CXT STANDARD BUILDING

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CXT Incorporated

REV.	DESCRIPTION	APPROVAL	DATE
SCALE	1/2"=1'-0"	DATE	03-28-05
DRAWN		FILE NO.	PD-CZ04
CHECKED		PLOT	24

**FLOOR PLAN**

DWG NO. <b>CZ-04</b>	SHEET	REV.
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ISSUED FOR: TENDER  
 DATE: 2021-09-08

REVISIONS:

NO.	DESCRIPTION	DATE	BY
1	ISSUED FOR TENDER	2021-09-08	

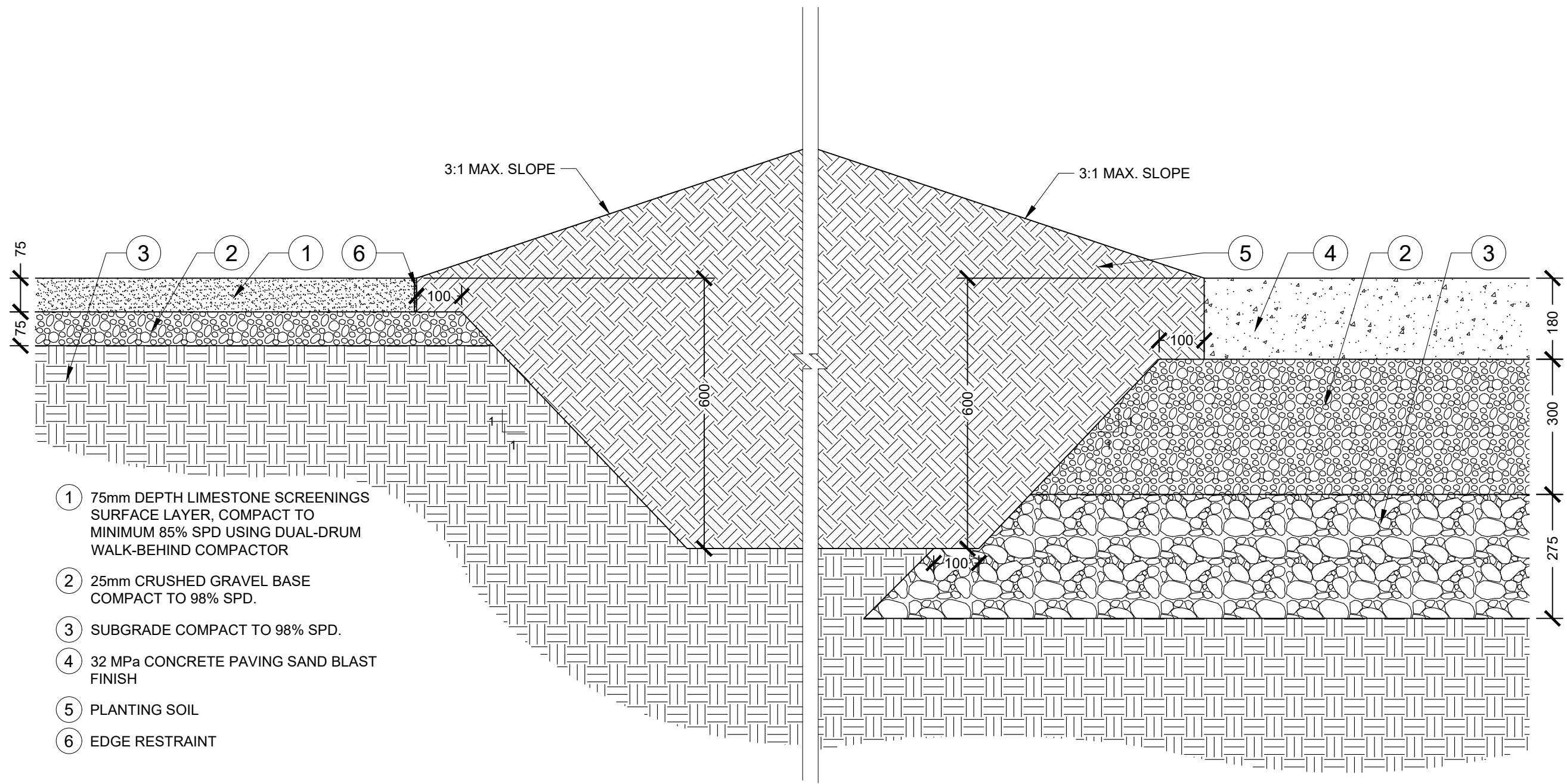
DESIGNED BY: MW/LP  
 PLOT DATE: 2021-09-07  
 DRAWING FILE NAME:  
 LM-505 WASHROOM DETAIL 3.dwg

CHECKED BY: MW

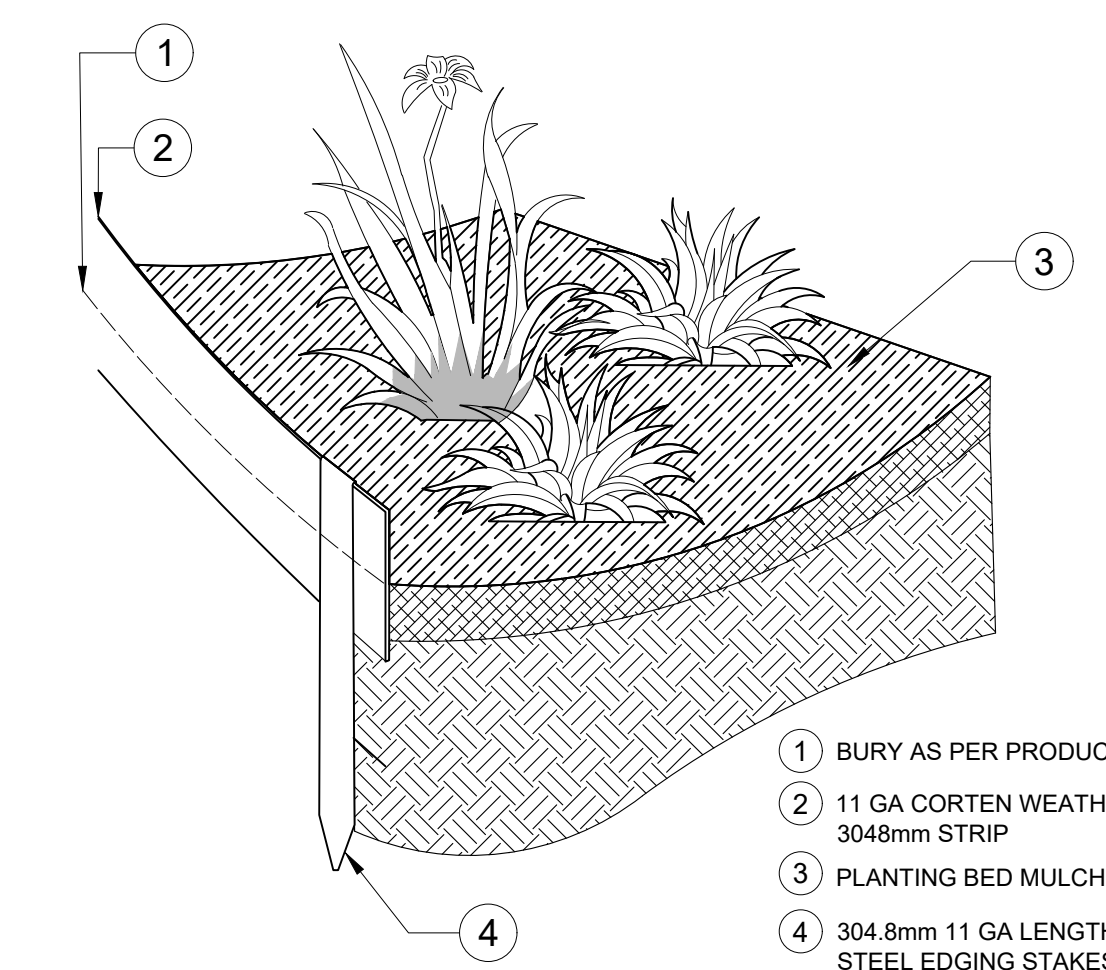
DRAWING TITLE:  
**WASHROOM DETAIL 3**

**LM-505**

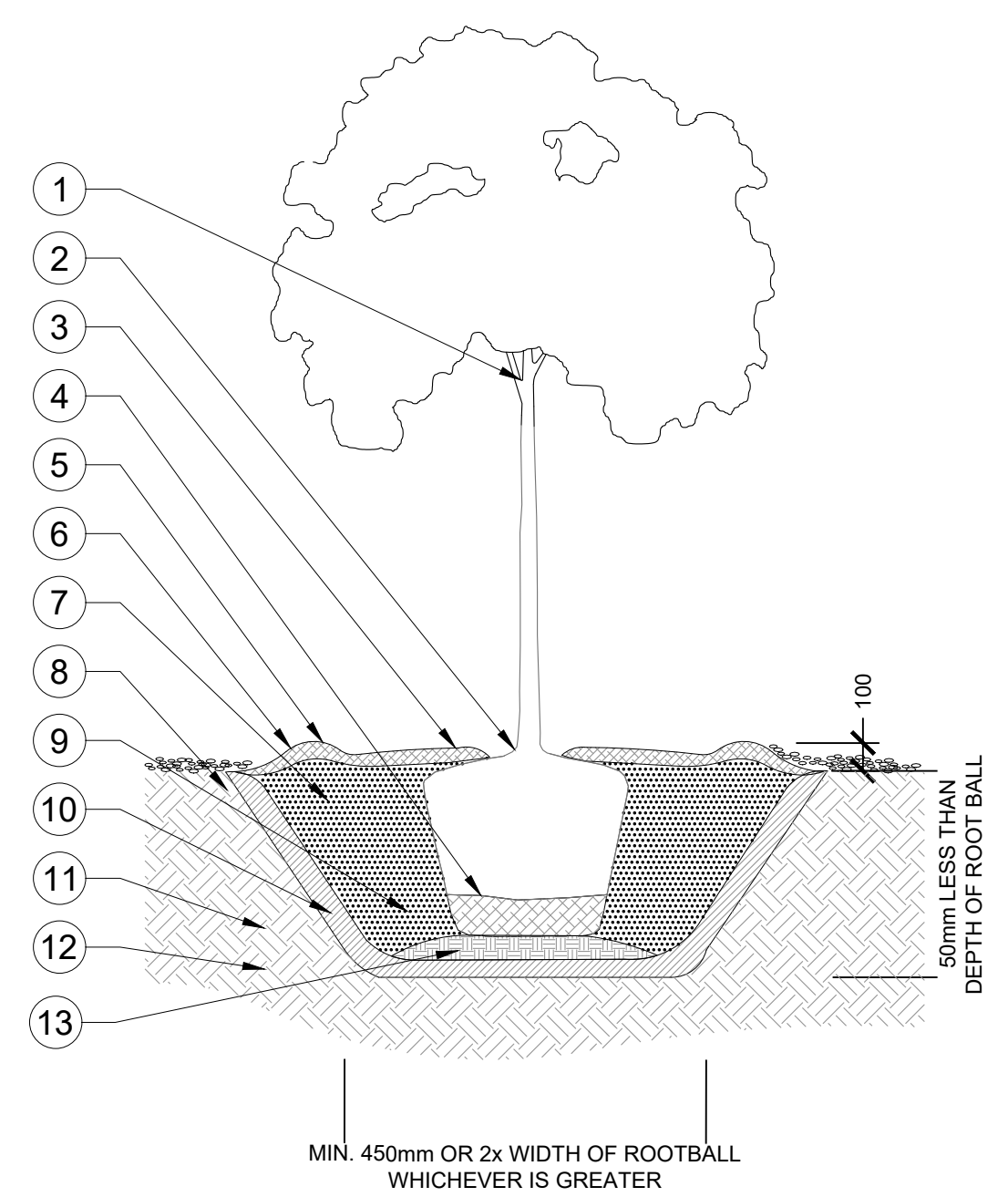
2021-09-07 7:13pm By: LP/ruitt  
 N:\Projects\1001 Drumheller Downtown Plaza\07 Design Development\01 - CAD\Sheet Files\LM-505 WASHROOM DETAIL 3.dwg



**2** PLANTING SOIL  
 1:10 P-02-DRU-41



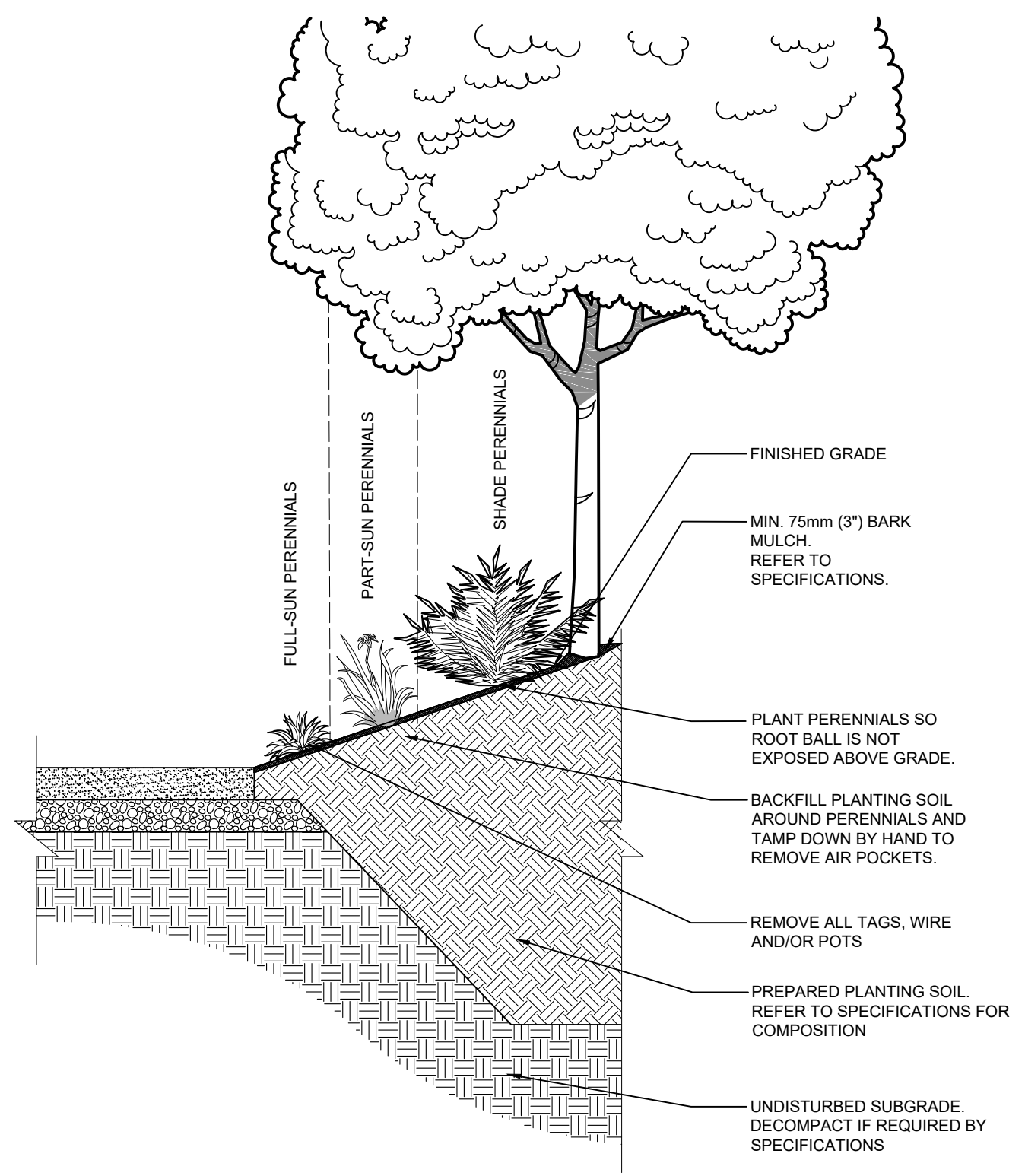
**3** CORTEN LANDSCAPE EDGE RESTRAINT  
 1:10 P-02-DRU-68



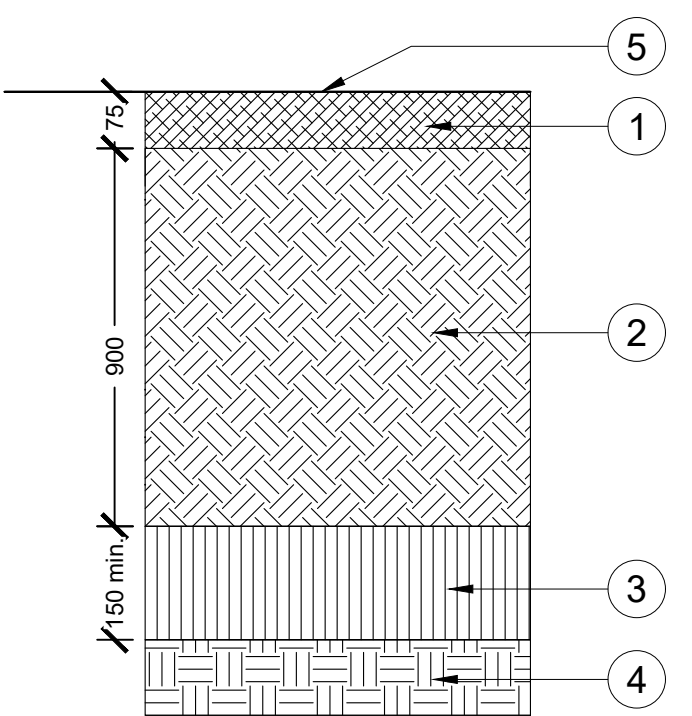
- NOTES:
1. WATER THOROUGHLY AFTER INSTALLATION
  2. REMOVE TREE RINGS AND STAKES TWO YEARS AFTER INSTALLATION
  3. DO NOT ALLOW AIR POCKETS TO FORM WHEN BACKFILLING
  4. POSITION CROWN OF ROOTBALL 50mm ABOVE FINISHED GRADE TO ALLOW FOR SETTLEMENT
  5. DO NOT DAMAGE OR CUT LEADER
  6. IF STAKING IS DEEMED NECESSARY REFER TO TREE STAKING DETAIL
  7. DO NOT WRAP TRUNK

**4** TREE PLANTING  
 1:30 P-02-DRU-35

- 1 TREE TO BE SET PLUMB IN CENTRE OF TREE PIT
- 2 TRUNK FLARE TO BE ABOVE FINISHED GRADE OF SOIL
- 3 BARK MULCH (REFER TO SPECIFICATIONS), MUST NOT CONTACT TREE TRUNK.
- 4 CUT WIRE BASKET, BEND BACK TOP LOOPS AND REMOVE BURLAP FROM TOP THIRD OF ROOTBALL. REMOVE ALL TWINE AND NON BIODEGRADABLE MATERIAL.
- 5 BERM PLANTING MEDIUM TO FORM WATER DISH AROUND OUTSIDE EDGE OF ROOTBALL
- 6 FINISHED GRADE OF BARK MULCH OR SOD
- 7 TREE PLANTING MEDIUM. REFER TO SPECIFICATIONS.
- 8 PLANTING SOIL OR COMPACTED CLEAN EARTH FILL SUITABLE FOR TREE GROWTH
- 9 TREE PIT SLOPING TO APPROXIMATE WIDTH OF ROOTBALL AT BASE
- 10 SCARIFY SIDES OF PIT TO 150mm DEPTH IF SURROUNDING SOIL IS NOT NEW PLANTING MEDIUM
- 11 REMOVE ALL DELETERIOUS MATERIALS INCLUDING GARBAGE, RUBBLE, DEBRIS, GRAVEL, ETC., FROM PLANTING PIT
- 12 UNDISTRIBUTED SUBGRADE
- 13 PLACE SOIL AMENDMENT TYPE 1 PER SPECIFICATIONS



**5** PERENNIAL PLANTING DETAIL  
 1:30 P-02-DRU-09



**6** PLANTING SOIL - 900MM DEPTH  
 1:10 P-02-DRU-57

ISSUED FOR: TENDER  
 DATE: 2021-09-08

NO.	DESCRIPTION	DATE	BY
1	ISSUED FOR TENDER	2021-09-08	

DESIGNED BY: MW/LP CHECKED BY: MW  
 PLOT DATE: 2021-09-07  
 DRAWING FILE NAME: LP-500 PLANTING DETAILS.dwg

DRAWING TITLE:  
**PLANTING DETAILS**

**LP-500**

**LEGAL DESCRIPTION**

LOTS: 26,27,28  
 BLOCK: 19  
 PLAN: 3099 A.D.  
 SE 11-29-20-W4M  
 AREA: 0.113 Ha.

**CONSTRUCTION AREA**  
 AREA: 0.18 Ha.

**OWNER:**  
 MUNICIPALITY OF DRUMHELLER

**NOTES:**

- GENERAL NOTES:**
1. ALL DIMENSIONS ARE IN METERS.
  2. PIPE DIAMETERS ARE IN MILLIMETERS.
  3. SITE LAYOUT PROVIDED BY O2 PLANNING AND DESIGN AUG. 31, 2021.
  4. EX SITE INFORMATION SOURCED FROM HUNTER WALLACE SURVEYS LTD. MAY 2021, TOWN SUPPLIED GIS DATA, AND MPE SURVEY SEPT. 2021.
  5. USE O2 PLANNING AND DESIGN DRAWINGS FOR SITE LAYOUT.
  6. CONTRACTOR SHALL ARRANGE FOR REQUIRED INSPECTIONS OF DEEP UTILITIES PRIOR TO BACKFILLING.
  7. THIS PLAN IS TO BE READ IN CONJUNCTION WITH THE LATEST LANDSCAPING SITE PLANS.
  8. THIS DRAWING IS TO BE USED FOR SITE SERVICING AND GRADING INFORMATION ONLY.
  9. ALL CONCRETE AND ASPHALT WORK SHALL BE CONSTRUCTED ACCORDING TO CITY OF CALGARY STANDARDS.
  10. HEAVY DUTY ASPHALT MEETS CITY OF CALGARY FIRE TRUCK LOADING CONDITIONS (85,000lbs/38,556kgs).
  11. THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS, LEVELS, AND REPORT ANY ERRORS OR OMISSIONS TO THE ENGINEER PRIOR TO COMMENCEMENT OF WORK. DO NOT SCALE FROM DRAWINGS.
  12. TIE IN ELEVATIONS TO EXISTING CONDITIONS TO BE CONFIRMED PRIOR TO CONSTRUCTION.
  13. ONCE THE CONSTRUCTION SURVEY IS COMPLETE, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CHECK EXISTING INVERT ELEVATIONS AND CONFIRM THEY MATCH ELEVATIONS SHOWN ON THE DRAWINGS. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
  14. THE EXISTING ASPHALT IS TO BE CUT BACK 0.6m BEYOND EXCAVATION LIMITS, AND EXPOSED GRANULAR BASE TO BE RECONDITIONED AND RE-COMPACTED PRIOR TO RE-SURFACING.

**SEWER SYSTEM NOTES:**

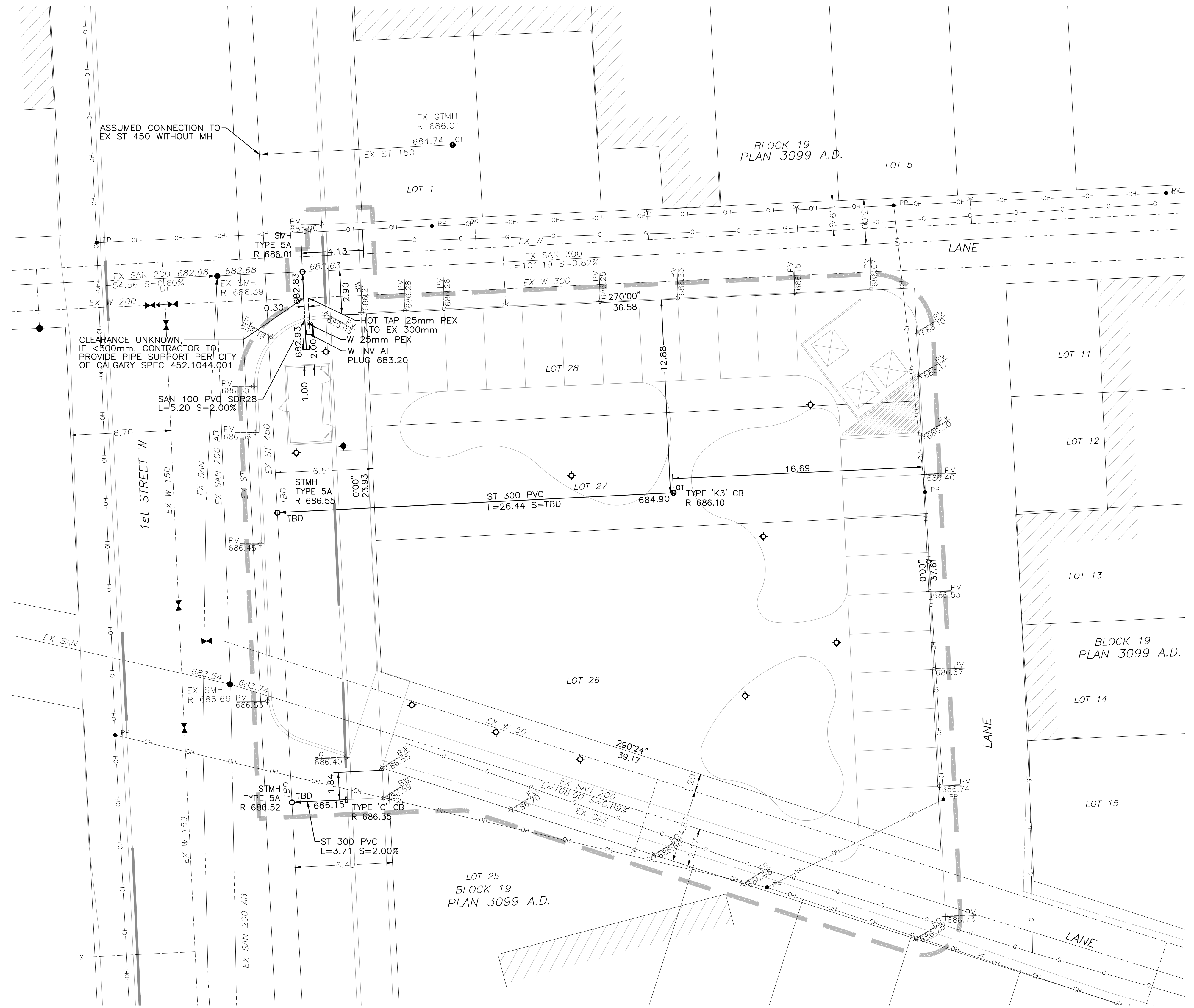
1. SEWERS SHALL BE DESIGNED, PROCURED, INSTALLED, INSPECTED, AND TESTED IN ACCORDANCE WITH THE CITY OF CALGARY SPECIFICATIONS FOR SEWER CONSTRUCTION, CURRENT EDITION.
2. PIPE, MANHOLES, CATCHBASINS, RIMS, FRAMES, GRATES, AND ALL OTHER APPURTENANCES SHALL BE IN ACCORDANCE WITH THE CITY OF CALGARY LIST OF APPROVED MATERIALS.
3. MANHOLES SHALL BE "TYPE 5A" SRC UNLESS NOTED OTHERWISE.
4. MANHOLE BENCHING SHALL BE CONSTRUCTED AS PER CITY OF CALGARY STANDARD DRAWING 452.1003.007.
5. CATCHBASINS SHALL BE "TYPE C" OR "TYPE K3" AS INDICATED ON THE PLANS, UNLESS NOTED OTHERWISE.
6. LEADS FOR SINGLE CATCH BASINS SHALL BE 300mm DIAMETER SLOPED AT 2% MINIMUM TO THE MANHOLE.
7. SEWER PIPE SHALL BE PVC DR35 UNLESS NOTES OTHERWISE.
8. PIPE SHALL BE INSTALLED IN "TYPE 2" TRENCH AS PER CITY OF CALGARY STANDARD DRAWING 452.1005.003. BEDDING MATERIAL SHALL BE CLASS 1B.
9. MINIMUM COVER OVER STORM MAINS AND SERVICES SHALL BE 1.20m. FOR SEWERS WITH LESS THAN THE MINIMUM SPECIFIED COVER PROVIDE INSULATION AS PER WITH CITY OF CALGARY STANDARD DRAWING 453.1045.001.

**WATER SYSTEM NOTES:**

1. POTABLE WATER INFRASTRUCTURE SHALL BE DESIGNED, PROCURED, INSTALLED, INSPECTED, AND TESTED IN ACCORDANCE WITH THE CITY OF CALGARY STANDARD SPECIFICATIONS FOR WATERWORKS CONSTRUCTION, CURRENT EDITION.
2. PIPE, VALVES, HYDRANTS, AND ALL OTHER APPURTENANCES SHALL BE IN ACCORDANCE WITH THE CITY OF CALGARY LIST OF APPROVED MATERIALS.
3. CATHODIC PROTECTION SHALL BE PROVIDED FOR METALLIC ELEMENTS OF THE WATER SYSTEM IN ACCORDANCE WITH THE CITY OF CALGARY STANDARD SPECIFICATIONS FOR WATERWORKS CONSTRUCTION, CURRENT EDITION.
4. PIPE SHALL BE INSTALLED IN "TYPE 2" TRENCH AS PER CITY OF CALGARY STANDARD DRAWING 452.1005.003. BEDDING MATERIAL SHALL BE CLASS 1B.
5. MINIMUM COVER OVER WATER MAINS AND SERVICES SHALL BE 2.70m AND 3.00m FOR CLAY AND GRAVEL SOILS RESPECTIVELY. FOR WATER PIPES WITH LESS THAN THE MINIMUM SPECIFIED COVER PROVIDE INSULATION AS PER CITY OF CALGARY STANDARD DRAWING 453.1045.001.

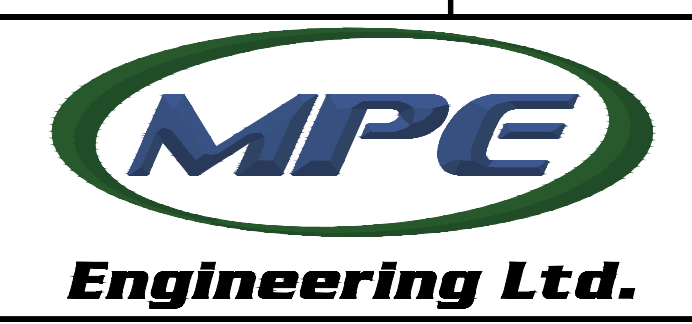
THE EXISTENCE, LOCATION AND ELEVATION OF ALL UTILITIES AS SHOWN ON ANY PLANS MAY BE BASED ON INFORMATION RECEIVED FROM THE RESPECTIVE AUTHORITIES AND ARE NOT GUARANTEED BY THE ENGINEER. NO RESPONSIBILITY IS IMPLIED OR ASSUMED BY THE ENGINEER AS TO THE LOCATION AND ELEVATION OR ANY OMISSIONS. THE CONTRACTOR OR ANY THIRD-PARTY IS RESPONSIBLE FOR DETERMINING THE EXISTENCE, LOCATION AND ELEVATION OF ALL SUCH UTILITIES AND MUST CONTACT THE VARIOUS UTILITY COMPANIES FOR ON SITE INFORMATION PRIOR TO COMMENCEMENT OF ANY OPERATIONS.

THIS DRAWING MAY HAVE BEEN MODIFIED FROM ITS ORIGINAL SIZE. ALL SCALE NOTATIONS INDICATED (i.e. 1:1000 etc) ARE BASED ON 24"x36" FORMAT DRAWINGS



LEGEND	
<b>EXISTING</b>	
EX SAN 200	SAN MAIN & MANHOLE
EX ST	STORM MAIN & MANHOLE
EX W 300	WATER MAIN
●	HYDRANT
⊗	VALVE
]	PLUG
<	REDUCER
×	SERVICE VALVE
●GT	GRATED TOP MANHOLE
■	CATCH BASIN
◆	LAMP STANDARD
●PP	POWER POLE
—G—G—	GAS LINE
—OH—OH—	OVERHEAD POWER
⊕686.75	EXISTING ELEVATION
<b>PROPOSED</b>	
W 25mm PEX	WATER MAIN
SAN 100 PVC	SAN MAIN & MANHOLE
ST 300 PVC	STORM MAIN & MANHOLE
■	CATCH BASIN
○	TYPE 5A MANHOLE
●GT	GRATED TOP MANHOLE
×	SERVICE VALVE
]	PLUG
◆	LAMP STANDARD

1	21-09-03	FOR REVIEW
ISSUE	YY-MM-DD	REVISION



MUNICIPALITY OF DRUMHELLER

DRUMHELLER DOWNTOWN PLAZA  
 DEVELOPMENT SITE SERVICING PLAN

DESIGNED	D.M.J.	JOB	2728-011-00
DRAWN	D.M.J.	SCALE	1:150
DATE	AUG. 2021	DRAWING	C1

USER: LJOHNSON  
 PATH: N:\3\28\_02\_Plan\3099\_011\_DSSP.dwg  
 DATE: 2021-08-02 10:25:24 AM

**LEGAL DESCRIPTION**  
 LOTS: 26,27,28  
 BLOCK: 19  
 PLAN: 3099 A.D.  
 SE 11-29-20-W4M  
 AREA : 0.113 Ha.

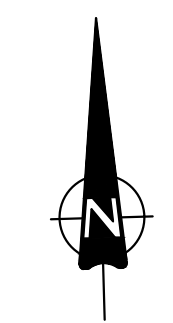
**CONSTRUCTION AREA**  
 AREA : 0.18 Ha.

**OWNER:**  
 MUNICIPALITY OF DRUMHELLER

NOTES:  
 1. REFER TO DRAWING C1 FOR NOTES.  
 2. MATERIALS SHOWN FOR REFERENCE ONLY. IN CASE OF DISCREPANCY REFER TO O2 PLANNING AND DESIGN MATERIALS PLAN.

POINT DESCRIPTION LEGEND :

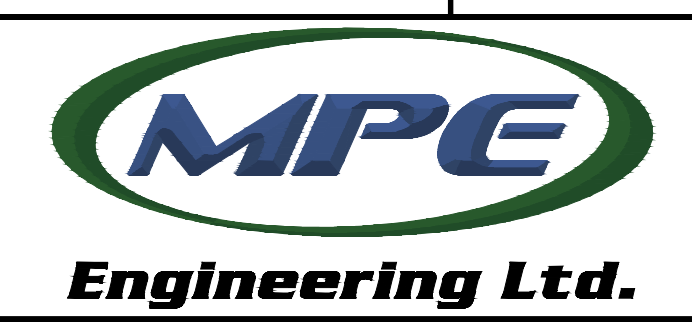
BW	BACK OF WALK
CB	CATCH BASIN
EC	EDGE CONCRETE
EG	EXISTING GROUND
FG	FINISHED GROUND
LP	LOW POINT
MH	MANHOLE
PV	PAVEMENT
TC	TOP CURB



LEGEND	
	CONSTRUCTION BOUNDARY
	EXISTING CURB AND GUTTER
	DEPRESSED CURB
	EDGE PAVEMENT
	SAN MANHOLE
	STORM MANHOLE
	HYDRANT
	GRATED TOP
	CATCH BASIN
	LAMP STANDARD
	POWER POLE
	GAS LINE
	OVERHEAD POWER
	EXISTING ELEVATION
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	REMOVALS CURB TO BE REMOVED
	LANDSCAPING TO BE REMOVED
	PROPOSED CURB & GUTTER
	CATCH BASIN
	TYPE 5A MANHOLE
	GRATED TOP
	LAMP STANDARD
	TRAP LOW LIMITS
	PROPOSED ELEVATION
	WASTE BIN
	PLANTER
	PROPOSED SEATING
	PROPOSED LANDSCAPING
	PROPOSED HEAVY DUTY CONCRETE
	PROPOSED LIGHT DUTY CONCRETE
	PROPOSED SURFACE CRUSH
	PROPOSED PAVEMENT REPAIR

THIS DRAWING MAY HAVE BEEN MODIFIED FROM ITS ORIGINAL SIZE. ALL SCALE NOTATIONS INDICATED (i.e. 1:1000 etc) ARE BASED ON 24"x36" FORMAT DRAWINGS

1	21-09-03	FOR REVIEW
ISSUE	YY-MM-DD	REVISION



MUNICIPALITY OF DRUMHELLER

DRUMHELLER DOWNTOWN PLAZA  
 SITE GRADING PLAN  
 WITH OG CONTOURS

DESIGNED	D.M.J.	JOB	2728-011-00
DRAWN	D.M.J.	SCALE	1:150
DATE	AUG. 2021	DRAWING	C2

USER: D:\JOHNSON\2021\08\21\2728-011-00\2728-011-00.dwg  
 PLOT: N:\2728-011-00\2728-011-00.dwg  
 USER: D:\JOHNSON\2021\08\21\2728-011-00\2728-011-00.dwg

PROJECT  
**DRUMHELLER DOWNTOWN PLAZA**  
 FOR  
 MUNICIPALITY OF DRUMHELLER

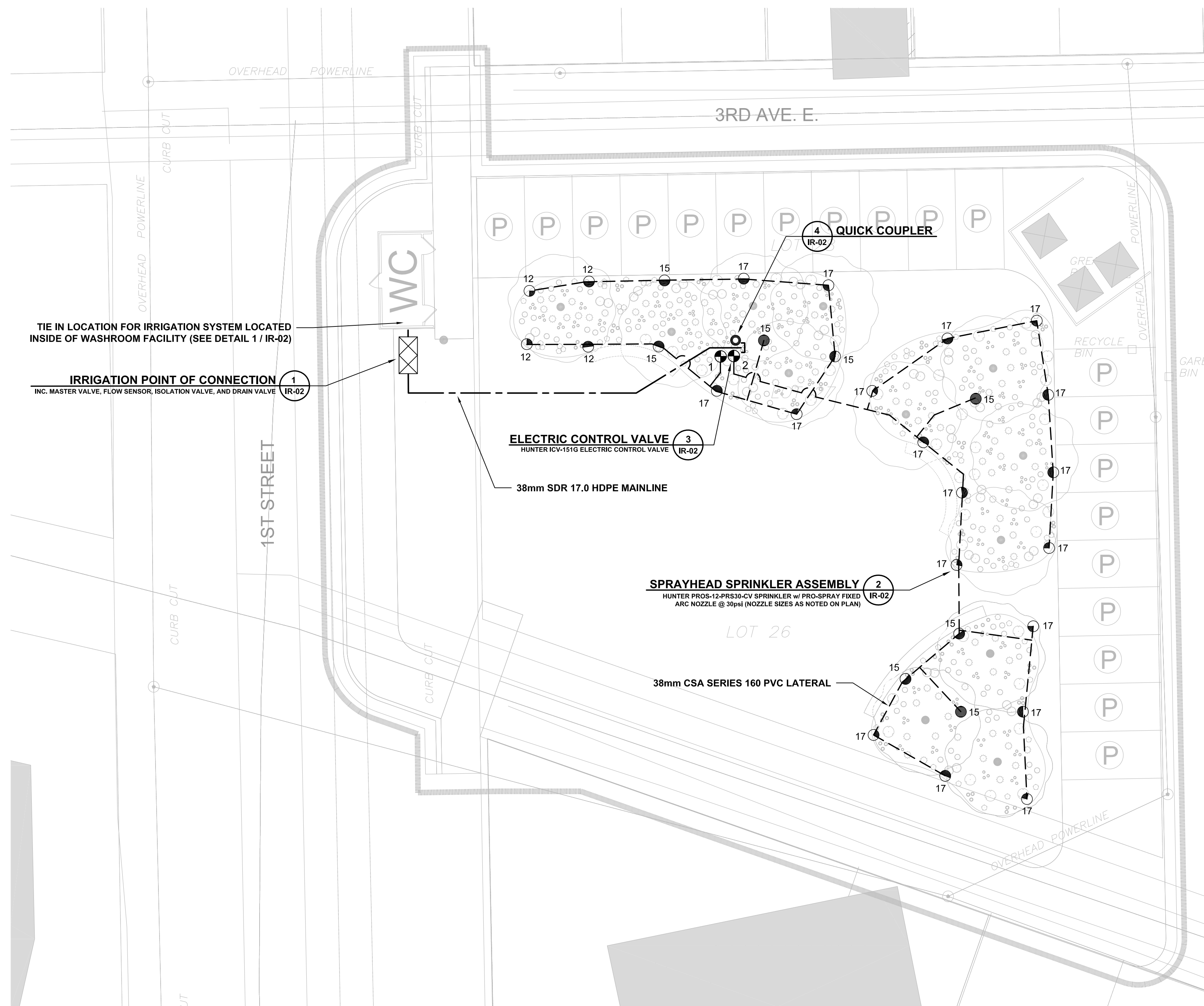
MUNICIPAL ADDRESS  
 XXX XXX

LEGAL DESCRIPTION  
 PLAN XXXX, BLOCK X, LOT X

CONSULTANTS



SEALS



**Drumheller Downtown Plaza- System Pressure Loss Calculations**

Item ID Zone 2	Flow gpm	Length (ft) Ft	Loss Per/100ft psi	Loss per Item psi
<b>38mm Series 160 PVC Lateral</b> (use manufacturer's catalog pressure loss chart)				
Hunter Pro-spray	2.37	15	0.02	0.003
Hunter Pro-spray	3.52	12	0.03	0.004
Hunter Pro-spray	5.38	3	0.05	0.002
Hunter Pro-spray	9.13	9	0.16	0.014
Hunter Pro-spray	13.8	13	0.37	0.048
Hunter Pro-spray	14.95	13	0.44	0.057
Hunter Pro-spray	17.32	13	0.52	0.068
Hunter Pro-spray	19.69	2	0.71	0.014
Hunter Pro-spray	23.44	9	1	0.090
Hunter Pro-spray	33.5	28	1.75	0.490
Pressure Loss per Total Lateral Pipe Length				0.790
Pressure Loss per Lateral Pipe Fittings @ 10%				0.079
<b>Total Pressure Loss per Lateral</b>				<b>0.869</b>
<b>Electric Control Valve</b> (use manufacturer's catalog pressure loss chart)				
38mm Hunter ICV	33.5		Pressure Loss per Valve	1.600
			Pressure Loss per Valve's Fittings @ 5%	0.080
<b>Total Pressure Loss per Valve</b>				<b>1.680</b>
<b>Mainline</b> (use manufacturer's catalog pressure loss chart)				
38mm SDR 17.0 HDPE Mainline	33.5	66	3	1.980
Pressure Loss per Total Mainline Pipe Length				1.980
Pressure Loss per Mainline Pipe Fittings @ 10%				0.198
<b>Total Pressure Loss per Mainline</b>				<b>2.178</b>
<b>Master Valve</b> (use manufacturer's catalog pressure loss chart)				
38mm Hunter ICV	33.5gpm		Pressure Loss per Hydrometer	1.600
			Pressure Loss per Meter Fittings @ 5%	0.080
<b>Total Pressure Loss per Meter &amp; Master Valve</b>				<b>1.680</b>
<b>Flow Sensor</b> (use manufacturer's catalog pressure loss chart)				
38mm Hunter Flow-syn	33.5gpm		Pressure Loss per flow sensor	0.900
			Pressure Loss per Meter Fittings @ 5%	0.045
<b>Total Pressure Loss per Meter &amp; Master Valve</b>				<b>0.945</b>
<b>DCVA</b> (use manufacturer's catalog pressure loss chart)				
38mm Zurn Model 350	33.5gpm		Pressure Loss per DCVA	6.000
			Pressure Loss per Meter Fittings @ 5%	0.300
<b>Total Pressure Loss per DCVA</b>				<b>6.300</b>
<b>Additional Fittings, Valves, etc. Losses</b> (use manufacturer's catalog pressure loss chart)				
Pressure Loss for Additional Fittings Valves, etc. @ 7.5%				1.090
<b>Total Pressure Loss per DCVA</b>				<b>1.090</b>
<b>Total Pressure System Pressure Loss</b>				<b>14.742</b>
<b>Sprinkler Operating Pressure</b>				<b>30.000</b>
<b>Minimum Static Pressure Required to Operate Irrigation System</b>				<b>44.742</b>
<b>Static Pressure</b>				<b>50.000</b>
<b>Available Pressure</b>				<b>5.258</b>

**1 IRRIGATION PLAN**  
 IR-01 1:150

**IRRIGATION LEGEND:**

- 38mm CSA SERIES 160 PVC LATERAL
- 38mm SDR 17.0 HDPE MAINLINE
- 2 SPRAYHEAD SPRINKLER ASSEMBLY**  
 HUNTER PROS-12-PRS30-CV SPRINKLER w/ PRO-SPRAY FIXED ARC NOZZLE @ 30psi (NOZZLE SIZES AS NOTED ON PLAN)
- 1 IRRIGATION SYSTEM POINT OF CONNECTION**  
 INC. MASTER VALVE, FLOW SENSOR, ISOLATION VALVE, AND DRAIN VALVE
- 3 ELECTRIC CONTROL VALVE**  
 HUNTER ICV-151G ELECTRIC CONTROL VALVE
- 4 QUICK COUPLER**

**IRRIGATION NOTES:**

- THE CONTRACTOR SHALL VERIFY THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES AND SERVICES PRIOR TO CONSTRUCTION.
- ALL IRRIGATION PRODUCTS, MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE DRAWINGS AND IRRIGATION SPECIFICATIONS PROVIDED IN THE CONTRACT.
- THE CONTRACTOR SHALL VERIFY STATIC PRESSURE AT THE POINT OF CONNECTIONS AND NOTIFY CONSULTANT OF READINGS. MINIMUM PRESSURE REQUIRED IS 50 PSF. IF THE PRESSURE IS LOWER THAN 50 PSI THEN A BOOSTER PUMP MAY BE REQUIRED.
- CONTRACTOR SHALL MONITOR AND ADJUST THE WATER SCHEDULE SEASONALLY AND AS NEEDED TO ENSURE THAT PLANT WATER REQUIREMENTS ARE MET & NOT EXCEEDED.
- IRRIGATION PLANS ARE SCHEMATIC ONLY. ALL TREES, LIGHT STANDARDS, HARD SURFACES OR AMENITIES. TAKE PRECEDENCE OVER LOCATION OF IRRIGATION COMPONENTS
- SUBSTITUTION REQUESTS SHALL BE MADE IN WRITING TO THE CONTRACT ADMINISTRATOR MINIMUM 7 BUSINESS DAYS PRIOR TO CLOSE OF TENDER AND SHALL BE ACCOMPANIED BY PRODUCT LITERATURE, SHOP DRAWINGS, AND PERFORMANCE CHARTS.
- WIRE SPLICES SHALL BE MADE w/ 3M DBY/R CONNECTORS & LOCATED AT ELECTRIC CONTROL ZONE VALVES.
- CONTRACTOR SHALL ENSURE ALL UTILITY INSTALLATIONS HAVE BEEN COMPLETED PRIOR TO PLANTING.
- ALL SPRINKLER RADII AND ARC'S ARE TO BE ADJUSTED TO AVOID OVERSPRAY ONTO HARD SURFACES.

**IRRIGATION WATERING SCHEDULE**

ZONE	IRRIGATION TYPE	VALVE SIZE	LATERAL SIZE	DESIGN FLOW (gpm)	DESIGN PRESSURE (psi)	PRECIPITATION RATE ("/hr)	PLANT TYPE	SOIL TYPE	WATERING (days/week)	PEAK RUN TIME (mins/day) PER WATERING DAY	# CYCLES PER DAY	CYCLE TIMES (mins)
1	SPRAY	38mm	38mm	20.3	30	1.60	TREE'S & SHRUBS	CLAY / LOAM	5	8	2	4
2	SPRAY	38mm	38mm	33.5	30	1.60	TREE'S & SHRUBS	CLAY / LOAM	5	8	2	4
<b>BASED ON PEAK BASE SCHEDULE FOR MONTH OF JULY (ET=0.18"/DAY)</b>										<b>TOTAL PEAK RUN TIME</b>	<b>16</b>	

Note: 1) The above schedule is for mature size trees and shrubs and should be adjusted to the growth stage.  
 2) The above schedule is for the peak month of July and should be reduced to 73% for May, 84% for June, 82% for August and 56% for September.

**KEYMAP**



ISSUED FOR: CONCEPT REVIEW  
 DATE:

**NOT FOR CONSTRUCTION**

REVISIONS:  
 NO. DESCRIPTION. DATE. BY.

2 ISSUE FOR TENDER 2021-09-07  
 1 ISSUE FOR 50% REVIEW 2021-08-31  
 DESIGNED BY: DL CHECKED BY: DL

DRAWING TITLE:  
**IRRIGATION PLAN**

**IR-01**

DRUMHELLER DOWNTOWN PLAZA  
 210201

PROJECT  
**DRUMHELLER  
 DOWNTOWN PLAZA**  
 FOR  
 MUNICIPALITY OF DRUMHELLER

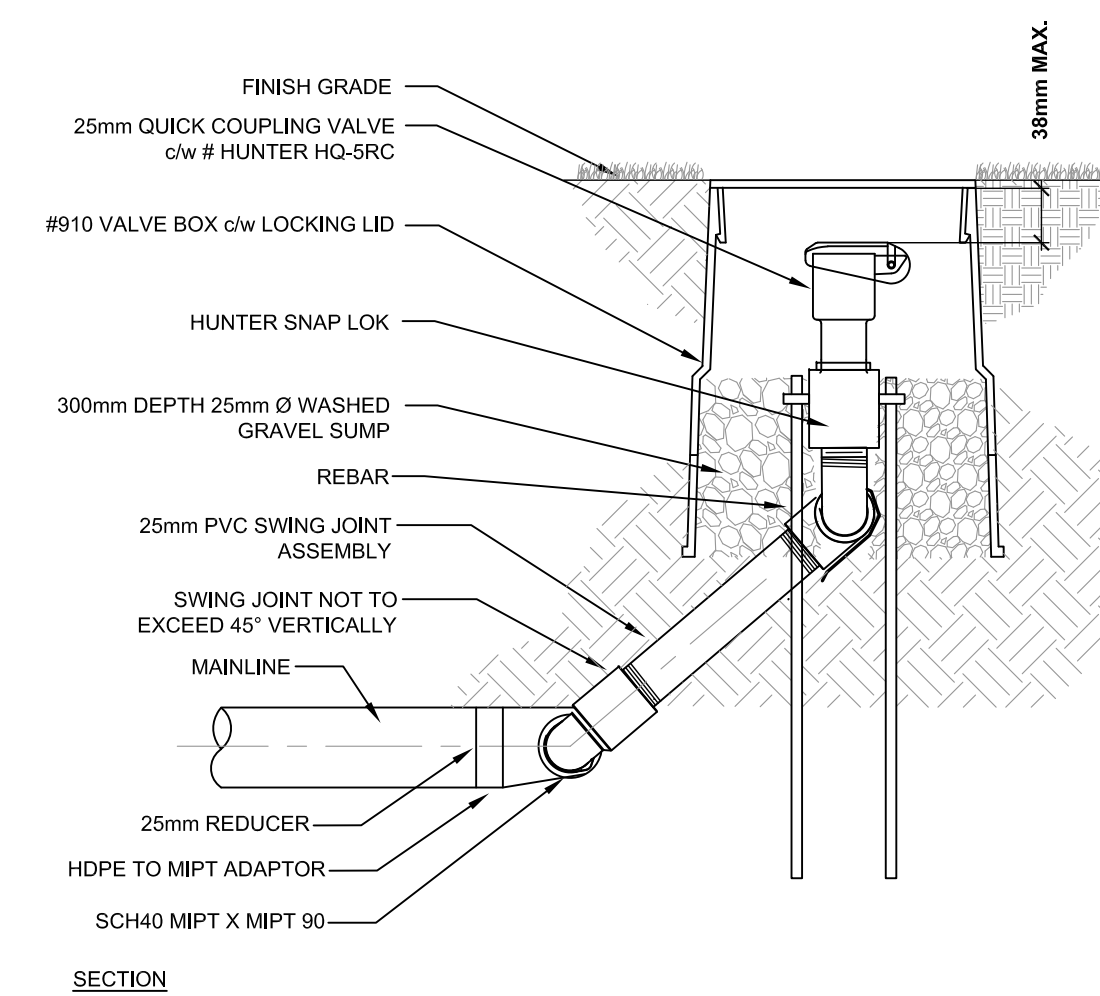
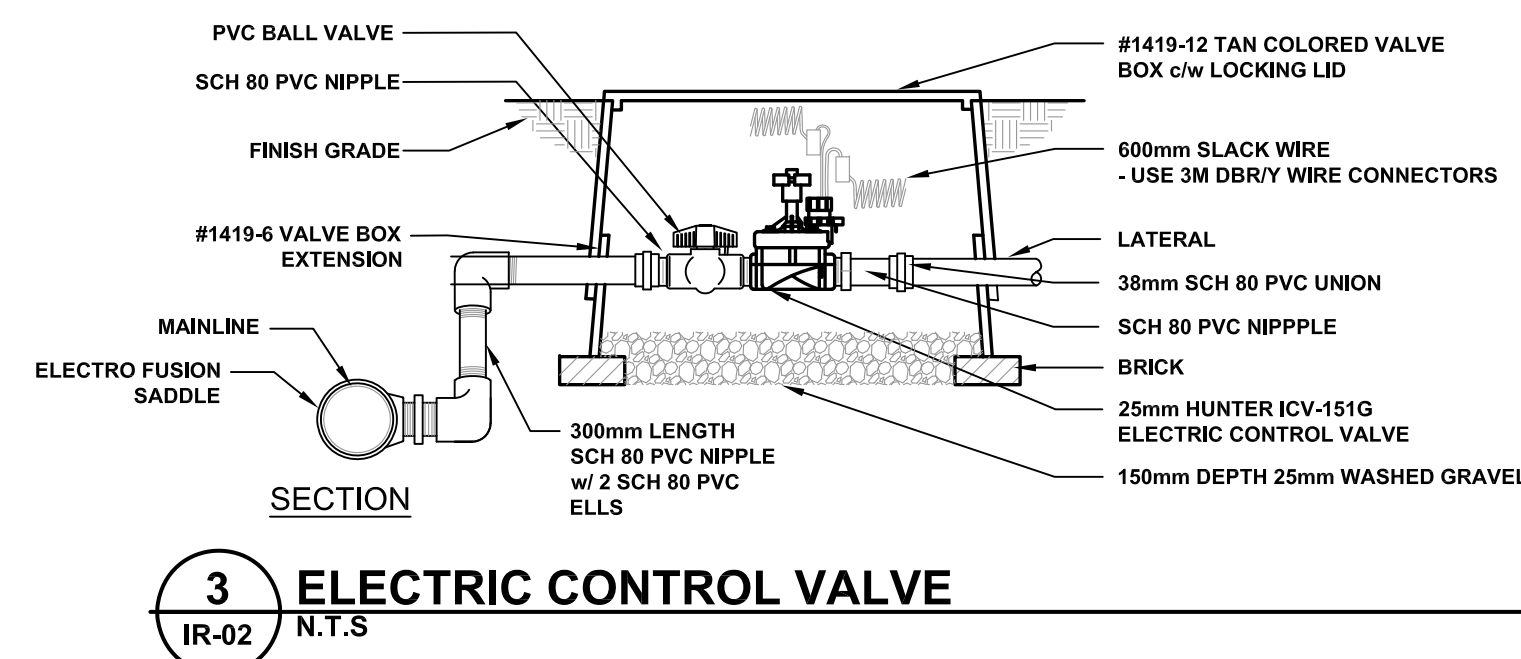
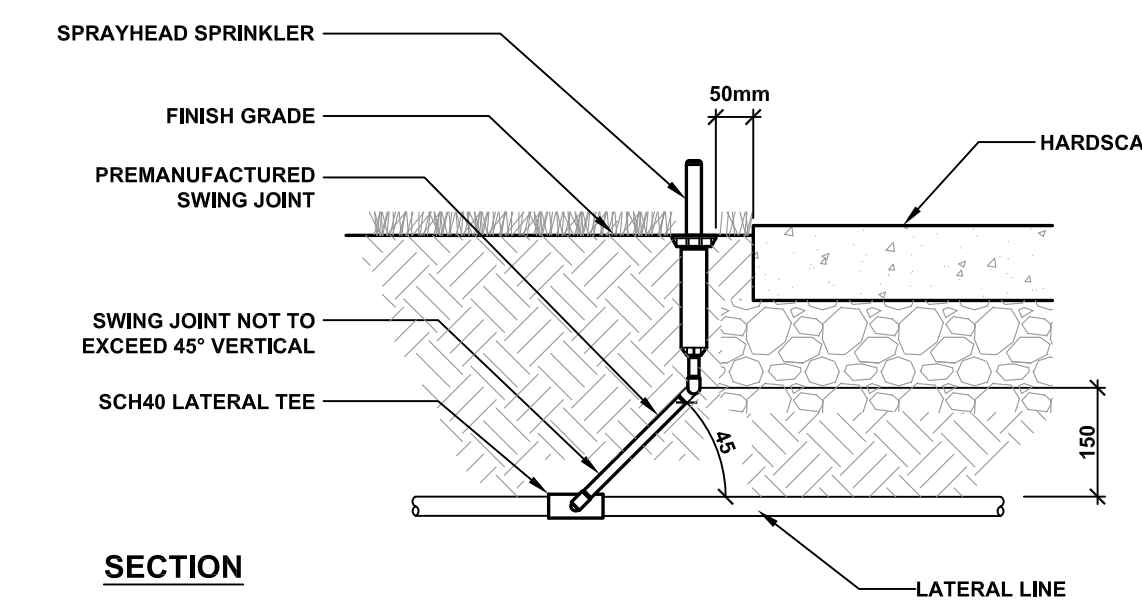
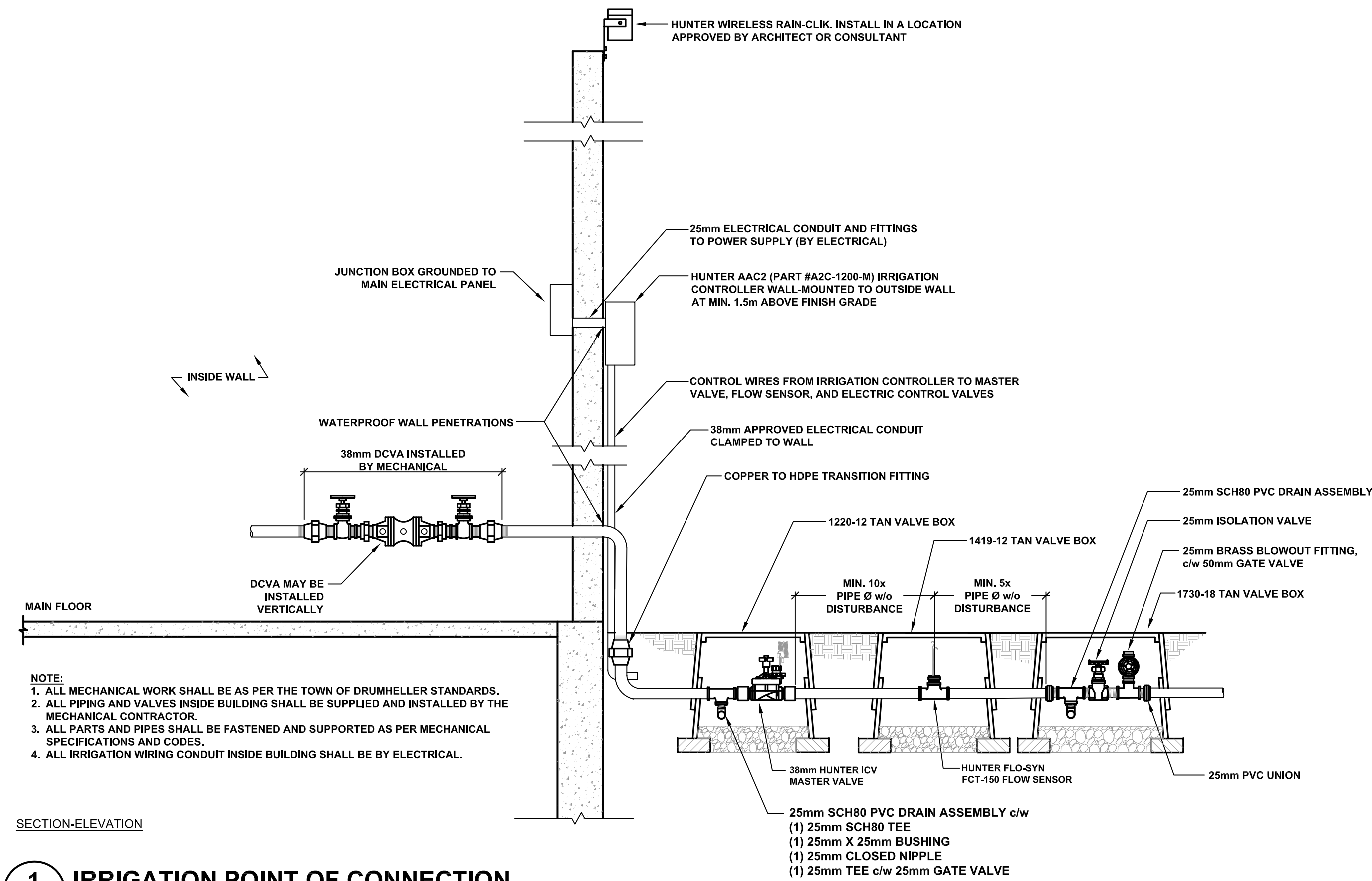
MUNICIPAL ADDRESS  
 XXX XXX

LEGAL DESCRIPTION  
 PLAN XXXX, BLOCK X, LOT X

CONSULTANTS



SEALS



ISSUED FOR: CONCEPT REVIEW  
 DATE:

**NOT FOR CONSTRUCTION**

REVISIONS:	NO.	DESCRIPTION.	DATE.	BY.
	2	ISSUE FOR TENDER	2021-09-07	
	1	ISSUE FOR 50% REVIEW	2021-08-31	
DESIGNED BY: DL		CHECKED BY: DL		

DRAWING TITLE:  
**IRRIGATION DETAIL PLAN**

**IR-02**