

UNIVERSITY FACILITIES MANAGEMENT

Sixth Avenue and Grant Street • P.O. Box 172760 • Bozeman, Montana 59717-2760 Phone: (406) 994-5413 • Fax: (406) 994-5665

ADDENDUM NO. 1 - OUTLINE AND SUMMARY INFORMATION

Project Name: Parking Improvements 2023 PPA No.: 22-0012

Date: 5/11/23

Owner: Montana State University – PDC

P.O. Box 172760

Bozeman, Montana 59717-2760

To: All Plan Holders of Record

The Plans and Specification prepared by <u>DJ&A</u> dated <u>May 6th, 2023</u>, shall be clarified and added as follow. The bidder proposes to perform all the following clarifications or changes. It is understood that the Base Bid shall include any modification of Work or Additional Work that may be required by reason of the following change or clarifications.

Bidders are to acknowledge the receipt of this Addendum by inserting its number and date into their Bid Forms. Failure to do so may subject the Bidder to disqualification. This Addendum forms part of the Contract Documents as if bound therein and modifies them as follows:

AMENDMENTS TO THE PROJECT MANUAL

- A. Table of contents
- B. Bid Proposal form 098
- C. 012300 Alternates Specification
- D. 02114 Relocating or Removing Utility Piles, Street Signs And Mailboxes Specification
- E. 021753 ADA Parking Improvements Specification

AMENDMENTS TO THE DRAWINGS

- A. GIO-1 Cover Page revised drawing index
- B. GIO-2 Notes, Legend, & Abbreviations Engineer stamp added
- C. GIO-3 Key Pay & Survey Control Engineer stamp added
- D. CD-1 Paisley Court West Demolition– Engineer stamp added
- E. CD1-2 Paisley Court East Demolition- Engineer stamp added
- F. CD1-3 Grant Chamberlain Demolition 100% drawings added
- G. CP-1 Paisley Court West Site Plan– Engineer stamp added
- H. CP-2 Paisley Court East Site Plan- Engineer stamp added

- I. CP-3 Grant Chamberlain Site Plan 100% drawings added
- J. CG-1 Paisley Court West Grading– Engineer stamp added
- K. CG1-2 Paisley Court East Grading- Engineer stamp added
- L. CG1-3 Grant Chamberlain Grading 100% drawings added
- M. CU1-1 Grant Chamberlain Storm Water Engineer stamp added
- N. C5-1 Details 1 Engineer stamp added
- O. C5-2 Details 2 Engineer stamp added
- P. C5-3 Details 3 Engineer stamp added
- Q. C5-4 Details 4 Engineer stamp added
- R. C5-5 Details 5 Engineer stamp added

ATTACHMENTS

A. Addendum No.1

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BIDDING REQUIREMENTS

Permit Notice
Invitation To Bid
Instructions to Bidders
Bid Proposal, Form 098

CONTRACT DOCUMENTS

Included in this Project Manual:

State of Montana General Conditions

MSU Supplemental Conditions

The following documents to be used for construction are <u>not included in the printed project manual</u>. These MSU Forms can be downloaded from our website:

http://www.montana.edu/pdc/docs/index.html - or will be provided upon request.

Substitution Request, Form 99 Schedule of Values for Payment, Form 100 Periodic Estimate for Partial Payment, Form 101 Acknowledgement of Subcontractors, Form 102 Consent of Surety to Final Payment, Form 103 Contract Change Order, Form 104 Contractor's Affidavit, Form 106 Certificate of Substantial Completion, Form 107 Construction Change Directive, Form 109 Request for Information, Form 111 Performance Bond, Form 112 Labor and Material Payment Bond, Form 113 Certificate of Final Acceptance, Form 118 Buy Safe Montana Form

For most current Montana Prevailing Wage Rates applicable to this project download from this site: http://erd.dli.mt.gov/labor-standards/state-prevailing-wage-rates

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MONTANA STATE UNIVERSITY

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Phone: (406) 994-5413 • Fax: (406) 994-5665

REVISED BID PROPOSAL 5/11/23

PARKING IMPROVEMENTS 2023 PPA No. 22-0012

TO:

State of Montana, Montana State University University Facilities Management Attn: Contract Administrator Plew Building, 6th & Grant, PO Box 172760 Bozeman, Montana 59717-2760

Prospective Bidders:

The undersigned, having familiarized themselves with the Contract Documents, site, location, and conditions of the Work as prepared by **DJ&A**, **220 W Lamme Street**, **Bozeman, MT 59715**, **(406) 721-4320**, by submission of this Bid Proposal, hereby agrees to provide all materials, systems, equipment and labor necessary to complete the Work for the total sum as follows:

	ltem	Quantity	Unit	Unit Price	Cost
M1	MOBILIZATION	1	LS		
A1	TEMPORARY TRAFFIC CONTROL	1	LS		
A2	SOIL EROSION AND POLLUTION CONTROL	1	LS		
A3	REMOVE EXISTING ASPHALT	16902	SY		
A4	REMOVE EXISTING CURB & GUTTER	507	LF		
A5	REMOVE EXISTING CONCRETE	980	SY		
A6	REMOVE EXISTING ELECTRIC POSTS	89	EA		
A7	REMOVE & REINSTALL ELECTRIC POSTS	8	EA		
A8	REMOVE LIGHT POLES	4	EA		
A9	REMOVE EXISTING SIGNS	5	EA		
A10	REMOVE EXISTING WHEEL STOPS	392	EA		
A11	REMOVE & REINSTALL EXISTING WHEEL STOPS	28	EA		
A12	REMOVE & REINSTALL MAILBOX	2	EA		
A13	ASHPALT PAVEMENT	141510	SF		
A14	CRUSHED BASE COURSE, 3/4" MINUS	5442	CY		
A15	RECLAIMED ASPHALT & PLACEMENT (ALTERNATE #4)	141510	SF		

			1	1 1
A16	CRUSHED BASE COURSE, 3/4" MINUS (ALTERNATE #4)	1948	CY	
A17	SUB-BASE COURSE, 3" MINUS (ALTERNATE #4)	4368	CY	
A19	CURB AND GUTTER	2334	LF	
A20	CONCRETE (SIDEWALKS)	880	SY	
A21	CONCRETE (TRAFFIC-RATED PAD)	248	SY	
A22	CRUSHED BASE COURSE, 1" MINUS	83	CY	
A23	INSTALL LIGHT POLES	4	EA	
A24	PLACEMENT OF 3 4" HDPE CONDUIT	900	LF	
A25	ADA RAMP & SIDEWALK IMPROVEMENTS	9	EA	
A26	ADA SIGNS	11	EA	
A27	"SERVICE VEHICLES ONLY" OR "NO PARKING SIGN INSTALLATION	15	EA	
A28	PERMANENT PAVEMENT MARKINGS - 4" STRIPING	5612	LF	
A29	PERMANENT PAVEMENT MARKINGS - NO PARKING STRIPING	4629	SF	
A30	PERMANENT PAVEMENT MARKING - CURB STRIPING	50	LF	
A31	60" ID DRY WELL STORM DRAIN STRUCTURE	3	EA	
A32	DRY WELL GRATE/INLET ASSEMBLY	3	EA	
A33	TRENCH DRAIN INSTALLATION	6	EA	
A34	VEGETATED SWALES	3049	SF	
A35	3"-8" WASHED DRAIN ROCK	135	CY	
A36	GEOTEXTILE	162170	SF	
A37	EXISTING MANHOLES TO ADJUST	3	EA	
A38	EXISTING WATER VALVE BOXES TO ADJUST	4	EA	
A39	REMOVE & REINSTALL UNDERGROUND ELECTRIC	1510	LF	
	Total for all unit Prices			\$

BASE BID:		
	and	/100 DOLLARS
(ALPHA notation)	\$	
		(NUMERIC notation)
ALTERNATE NO. 1: DEDUCT Paisley West THE BIDDER AGREES TO DEDUCT THE S TOTAL SUM OF:		WORK FOR THE
	and	/100 DOLLARS
(ALPHA notation)	\$	(NUMERIC notation)
		(INDIVILITIE HOLALIOH)

ALTERNATE NO. 2: DEDUCT Future Use Conduit THE BIDDER AGREES TO DEDUCT THE SPECIFIED SCOPE OF WORK FOR THE TOTAL SUM OF: (ALPHA notation) **ALTERNATE NO. 3: DEDUCT Electrical Poles** THE BIDDER AGREES TO DEDUCT THE SPECIFIED SCOPE OF WORK FOR THE TOTAL SUM OF: (ALPHA notation) **ALTERNATE NO. 4: ADD Asphalt Pavement** THE BIDDER AGREES TO ADD THE SPECIFIED SCOPE OF WORK FOR THE TOTAL SUM OF: _and _____/100 DOLLARS (ALPHA notation) This bidder acknowledges receipt of the following addenda: ADDENDUM No.: Dated: ADDENDUM No.: Dated: ADDENDUM No.: Dated: By signing below, the bidder agrees to all terms specified and AGREES TO fulfill the requirements of the CONTRACT in strict accordance with the bidding documents. Company Name: Business Address: Construction Contractor Registration No.: Fax No.: ______ Email:

	titled to consideration shall be signed by the proper representative of the firm submitting ollows (Initial which requirement you meet):
The pri	cipal of a single owner firm;
A princ	pal of a partnership firm;
copy o	er of an incorporated firm, or an agent whose signature is accompanied by a certified the resolution of the Board of Directors authorizing that agent to sign; or (attach a copy solution),
	ersons signing for a single-owner firm or a partnership shall attach a power-of-attorney ng his authority to sign for that firm.
	Signature:
	Print Name:
	Title:

SECTION 012300 ALTERNATES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General Conditions, Supplemental Conditions and other Division 1 Specification Sections, apply to this section. See also *Instructions to Bidders 10.3 Award of Bids*.

1.2 SUMMARY

A. This Section includes administrative and procedural requirements for alternates.

1.3 **DEFINITIONS**

- A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the Bidding Requirements that may be added to or deducted from the Base Bid amount if Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.
 - 1. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternate into the Work. No other adjustments are made to the Contract Sum.

1.4 PROCEDURES

- A. Coordination: Modify or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.
 - Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.
- B. Notification: Immediately following award of the Contract, notify each party involved, in writing, of the status of each alternate. Indicate if alternates have been accepted, rejected, or deferred for later consideration. Include a complete description of negotiated modifications to alternates.
- C. Execute accepted alternates under the same conditions as other work of the Contract.
- D. Schedule: A Schedule of Alternates is included at the end of this Section. Specification Sections referenced in schedule contain requirements for materials necessary to achieve the work described under each alternate.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SCHEDULE OF ALTERNATES

- A. Description of Alternates
 - 1. Paisley West ADA Improvements:
 - a. Remove from scope (DEDUCT)
 - 2. Future Use Conduit:
 - a. Remove from project scope (DEDUCT)
 - 3. Electric Poles:
 - a. Do not reinstall (DEDUCT)
 - 4. Asphalt Pavement
 - Alternative 2 from Geotechnical Report and shown in Drawings Detail F/C5-1 (ADD)

END OF SECTION

SECTION 02114 RELOCATING OR REMOVING UTILITY POLES, STREET SIGNS AND MAILBOXES

PART 1 - GENERAL

1.1 DESCRIPTION

A. This item consists of relocating or removing existing street lights, signs, power poles, telephone poles, and mailboxes, as shown in the contract documents.

PART 2 - PRODUCTS - NOT USED PART

3 - EXECUTION

3.1 POWER, STREET LIGHT, AND TELEPHONE POLES

- A. Affected utility companies are to move power, streetlight, and telephone poles unless they are designated in the contract documents to be removed or relocated by the CONTRACTOR. If a utility company is non-responsive, notify ENGINEER. Coordinate all utility relocation activity with the construction activity.
- B. When relocating or removing power poles, street light poles, and telephone poles, comply with the contract documents' applicable requirements.

3.2 STREET AND TRAFFIC CONTROL SIGNS

- A. Remove and reinstall all street, stop, and other traffic control/direction signs designated to be relocated by the CONTRACTOR as shown in the contract documents or as designated by the ENGINEER. Include removing, temporarily installing, storing, and permanently installing the signs.
- B. The locations shown in the contract documents for streetlights, street signs, power poles, telephone poles, and private mailboxes to be relocated are approximate. The specific locations are to be designated by the ENGINEER in the field.
- C. Relocate all signs within the staked grading limits whose existing locations do not conform to final plan locations. Also, relocate signs outside the staked grading limits to conform to final plan locations.
- D. Preserve all street, stop, and other traffic control and direction signs that are to remain in place. Should any such signs be moved for the CONTRACTOR's convenience, permanently reinstall the signs after curb and gutter construction is complete. Assume responsibility for any damage to such signs. No extra compensation will be allowed for preserving, removing, or replacing stop and traffic control and direction signs designated to remain

- in place since this work is considered incidental to the contract unit prices for the various items of the contract.
- E. Where stop signs and traffic direction or control signs are temporarily removed but are needed for traffic reasons during construction, temporarily install a similar stop sign or traffic direction sign in locations acceptable to the ENGINEER. Assure that the temporary signs remain in place until the permanent stop or traffic control signs are in place.
- F. Do not install street signs temporarily.
- G. Store signs which are not used for temporary installation.
- H. Set all permanent signs in fresh concrete, the pole supporting the sign being vertical, and the bottom of the sign being 7'-0" above the top of the curb or sidewalk. Replace all signs which are damaged during removal with new signs.
- I. Assure that all sign locations conform to the latest issue of the Manual on Uniform Traffic Control Devices and MSU Standards.

3.3 MAILBOXES

- A. Mailboxes designated for relocation shall be placed temporarily outside but immediately adjacent to the construction limits. Any Mailbox damaged will be replaced and installed at CONTRACTOR expense. Within 48 hours following the damage or removal, reinstall the mailboxes in accordance with current U.S. Post Office regulations and applicable MSU standards.
- B. Any mailbox temporarily placed or displaced must be coordinated with MSU and the local Postmaster as to not disrupt mail service to residents.
- C. Mailboxes must be accessible throughout the entirety of construction to accommodate Postal Service delivery and tenant access.

END OF SECTION

SECTION 021723

ADA PARKING IMPROVEMENTS

PART 1 - GENERAL

1.1 DESCRIPTION

A. This specification covers the installation of American with Disabilities Act (ADA) parking lot improvements to pavement markings, grading improvements, sidewalk improvements, and truncated domes as per the Drawings and Specifications.

1.2 REFERENCES

- A. American with Disabilities Act of 1990 (ADA) Standards for Accessible Design
- B. American with Disabilities Act Accessibility Guidelines (ADAAG) 2010
- C. ASTM D 2628 Standard Specification for Preformed Polymeric Pavement Marking Tape for Nonairfield Applications
- D. ASTM D 794 Standard Test Method for Shear Strength of Plastics by Punch Tool
- E. ASTM D 412 Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers Tension
- F. ASTM D 638 Standard Test Method for Tensile Properties of Plastics
- G. ASTM D 695 Standard Test Method for Compressive Properties of Rigid Plastics
- H. ASTM D 792 Standard Test Methods for Density and Specific Gravity (Relative Density) of Plastics by Displacement
- I. ASTM D 882 Standard Test Method for Tensile Properties of Thin Plastic Sheeting
- J. ASTM E 1745 Standard Specification for Plastic Water Vapor Retarders Used in Contact with Soil or Granular Fill under Concrete Slabs
- K. ASTM E 303 Standard Test Method for Measuring Surface Frictional Properties Using the British Pendulum Tester

PART 2 - PRODUCTS

2.1 GENERAL

A. PAVEMENT MARKINGS

1. All pavement markings shall be preformed polymeric pavement marking tape as per

ASTM D 2628.

- 2. All pavement markings shall be installed in accordance with the manufacturer's recommendations.
- 3. All pavement markings shall be reflective.
- 4. All pavement markings shall have a minimum shear strength of 15 pounds per inch as per ASTM D 794.

B. GRADING IMPROVEMENTS

- 1. All grading improvements shall be made in accordance with the requirements of the ADA Standards for Accessible Design and the ADAAG 2010.
- 2. All grading improvements shall be compacted to a minimum of 95% of maximum density as determined by ASTM D 695.

C. SIDEWALK IMPROVEMENTS

- 1. All sidewalk improvements shall be constructed in accordance with the requirements of the ADA Standards for Accessible Design and the ADAAG 2010.
- 2. All sidewalks shall have a minimum width of 36 inches.
- 3. All sidewalks shall have a maximum cross slope of 2% and a maximum running slope of 5%.

D. Truncated Domes

- 1. All truncated domes shall be constructed in accordance with the requirements of the ADA Standards for Accessible Design and the ADAAG 2010.
- 2. All truncated domes shall be made of durable material that is resistant to wear and weathering.
- 3. All truncated domes shall be placed at a spacing of 24 inches center-to-center in a grid pattern.
- 4. All truncated domes shall have a maximum heigh of 0.2 inches and a minimum height of 0.1 inches.
- 5. All truncated domes shall have a base diameter of 0.9 inches and a top diameter of 0.45 inches.
- 6. All truncated domes shall be tested for slip resistance.

PART 3 - EXECUTION

3.1 PREPERATION

A. The CONTRACTOR shall ensure the parking lot area designated for ADA access is graded to the required slope and cross slope.

3.2 PAVEMENT MARKINGS & SIGNS

- A. The CONTRACTOR shall apply ADA markings, if required, in accordance with the approved Drawings and Specifications. The pavement markings shall be applied using traffic paint or thermoplastic material. The CONTRACTOR shall ensure that the pavement markings have a non-slip surface.
- B. The CONTRACTOR shall install ADA Accessible Parking signs in accordance with the approved Drawings and Specifications. MSU shall provide the signs.

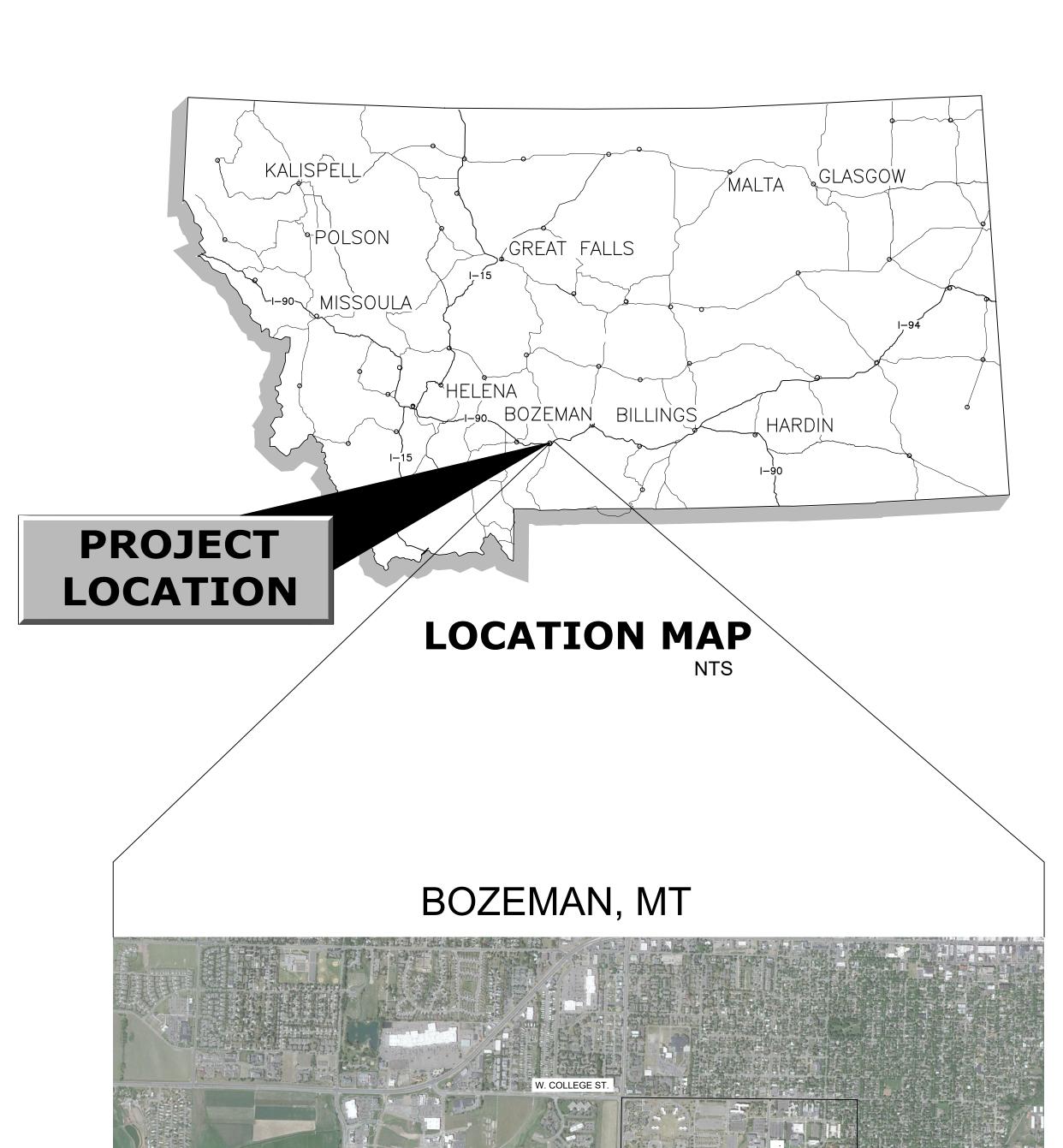
3.3 GRADING IMPROVEMENTS

A. The CONTRACTOR shall install the sidewalks in accordance with the approved Drawings and Specifications. The CONTRACTOR shall ensure that the sidewalks have a minimum width of 36 inches and shall have a non-slip surface. The CONTRACTOR shall also ensure that the sidewalks have a slope of no more than 4.8%.

3.4 TRUNCATED DOMES

A. The CONTRACTOR shall install the truncated domes in accordance with the approved Drawings and Specifications. The CONTRACTOR shall ensure that the truncated domes are made of durable and non-slip material. The color of the truncated domes shall be yellow.

END OF SECTION



MONTANA STATE UNIVERSITY

PPA# 22-0012

PARKING IMPROVEMENTS 2023

MONTANA STATE UNIVERSITY BOZEMAN, MT

PREPARED FOR:

STATE OF MONTANA - MONTANA STATE UNIVERSITY UNIVERSITY FACILITIES MANAGEMENT, PLANNING, **DESIGN & CONSTRUCTION** PLEW BUILDING 6TH & GRANT PO BOX 172760 BOZEMAN, MT 59717-2760 PHONE: 406-994-5413



FAX: 406-994-5665

PREPARED BY:

DJ&A 220 WEST LAMME STREET, SUITE 1D BOZEMAN, MT 59715 406-721-4320



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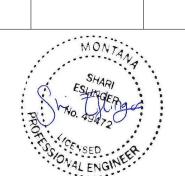
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MSU-CPDC BOZEMAN, MONTANA PHONE: 406.994.5413 FAX: 406.994.5665





GC ADDENDUM 05/09/23 ADDITION

PPA#22-0012

COVER

SHEET GIO-1

GENERAL NOTES

- 1. CONDUIT WILL BE INSTALLED IN A JOINT UTILITY TRENCH WHEN FEASIBLE. TRENCH TO BE EXCAVATED BY THE CONTRACTOR AND SHALL CONFORM TO NORTHWESTERN ENERGY (NWE) AND MSU SPECIFICATIONS. THE WORKING CONTRACTOR WILL BE RESPONSIBLE FOR BACKFILLING & COMPACTING THE TRENCH.
- 2. <u>UTILITIES</u>: UTILITY LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE. NOT ALL UTILITIES ARE SHOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY LOCATIONS OF ALL UTILITIES THAT MAY BE IMPACTED BY THIS PROJECT.
- 3. WHERE CONDITIONS ENCOUNTERED WHICH APPEAR DIFFERENT FROM THOSE INDICATED ON THE PLANS OR IN THE SPECIFICATIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO THE PERFORMANCE OF WORK.
- 4. <u>SPECIFICATIONS</u>: ALL WORK SHALL CONFORM TO THE 7TH EDITION OF THE MONTANA PUBLIC WORKS STANDARD SPECIFICATIONS (MPWSS) & MODIFICATIONS THERETO. IN CASE OF A CONFLICT BETWEEN REGULATORY OR STANDARD SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT WILL PREVAIL.
- 5. <u>PERMITS & FEES:</u> ALL PERMITS AND FEES REQUIRED FOR THIS PROJECT SHALL BE OBTAINED & PURCHASED BY THE CONTRACTOR. *PERMITS REQUIRED:* MONTANA DEQ SWPPP. OTHER PERMITS MAY BE REQUIRED AND SHALL BE DISCUSSED WITH THE ENGINEER.
- 6. EROSION CONTROL PLAN & STATE OF MONTANA SWPPP: THE CONTRACTOR WILL BE RESPONSIBLE FOR CREATING AND FILING A STATE OF MONTANA NOTICE OF INTENT (NOI) FORM AND STORM WATER POLLUTION PREVENTION PLAN (SWPPP) UNDER THE MONTANA POLLUTANT DISCHARGE ELIMINATION SYSTEM (MPDES) WITH THE MONTANA WATER QUALITY DIVISION FOR STORM WATER ASSOCIATED WITH CONSTRUCTION ACTIVITIES. ALL CONTRACTORS, INCLUDING THOSE SUBCONTRACTED BY THE GENERAL CONTRACTOR, SHALL COMPLY WITH THE APPROVED SWPPP.
- 7. <u>DISPOSAL:</u> ALL MATERIALS DESIGNATED FOR REMOVAL BECOME THE PROPERTY OF THE CONTRACTOR UPON REMOVAL AND ARE TO BE DISPOSED OF IN AN ENVIRONMENTALLY SAFE MANNER IN ACCORDANCE WITH ALL LOCAL, STATE & FEDERAL REQUIREMENTS.
- 8. <u>EXISTING CONDITIONS</u> AT THE SITE ARE THE RESPONSIBILITY OF THE CONTRACTOR & MUST BE FIELD VERIFIED BY THE CONTRACTOR.
- 9. NO STORAGE OF <u>CONSTRUCTION MATERIALS</u> AND/OR EQUIPMENT HAS BEEN DESIGNATED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR OWN MATERIAL & EQUIPMENT STORAGE AREA.
- 10. THE CONTRACTOR SHALL PROTECT ADJACENT SITES FROM DAMAGE DURING CONSTRUCTION.
- 11. LOTS & STREET CLOSURES SHALL BE COORDINATED WITH & APPROVED BY MSU PARKING, MSU PLANNING, DESIGN, & CONSTRUCTION (PDC), & MSU FAMILY GRADUATE HOUSING STAFF 72 HOURS PRIOR TO CLOSURE.
- 12. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO EXISTING CONDITION OR BETTER AT THE CONTRACTOR'S EXPENSE.
- 13. THE CONTRACTOR SHALL MAINTAIN & PROVIDE A CLEAN & CLEARLY REDLINED SET OF AS-BUILT DRAWINGS TO THE ENGINEER PRIOR TO FINAL ACCEPTANCE.
- 14. CONTRACTOR SHALL REMOVE & DISPOSE OF ALL ABANDONED FACILITIES THAT ARE A RESULT OF THESE IMPROVEMENTS AS DESCRIBED HERE & IN SPECIFICATIONS.
- 15. REFER TO THE FOLLOWING DEFINITIONS FOR THE PLANS & SPECIFICATIONS:
- 15.1. REMOVE: DETACH ITEMS FROM EXISTING CONSTRUCTION & LEGALLY DISPOSE OF THEM OFF-SITE UNLESS INDICATED TO BE REMOVED & SALVAGED OR REMOVED & REINSTALLED.
- 15.2. REMOVE & SALVAGE: CAREFULLY DETACH FROM EXISTING CONSTRUCTION, IN A MANNER TO PREVENT DAMAGE, & DELIVER TO MSU.
- 15.3. REMOVE & REINSTALL: DETACH ITEMS FROM EXISTING CONSTRUCTION, PREPARE FOR REUSE, & REINSTALL WHERE INDICATED.

AASHTO	AMERICAN ASSOCIATION OF STATE
	HIGHWAY AND TRANSPORTATION
ADA	AMERICAN DISABILITY ACT
ASTM	AMERICAN SOCIETY FOR TESTING AND
	MATERIALS
AVE.	AVENUE
cf	CUBIC FEET
CL	CENTERLINE
СР	CONTROL POINT
DESC.	DESCRIPTION
EG	EXISTING GRADE
EL/ELEV	ELEVATION
EOA	EDGE OF ASPHALT
E	EXISTING
FETS	FLARED END TREATMENT SECTIONS
FG	FINISH GRADE
FH	FAMILY HOUSING
FL	FLOW LINE
FT	FEET/FOOT
HDPE	HIGH DENSITY POLYETHYLENE
INV	INVERT
LF	LINEAR FOOT
MAX	MAXIMUM
MIN	MINIMUM
MPDES	MONTANA POLLUTANT DISCHARGE
	ELIMINATION SYSTEM
MPWSS	MONTANA PUBLIC WORKS STANDARD
	SPECIFICATIONS
MSU	MONTANA STATE UNIVERSITY
MT	MONTANA
NAD	NORTH AMERICAN DATUM
NAVD	NORTH AMERICAN VERTICAL DATUM
NE	NORTHEAST
NTS	NOT TO SCALE
NWE	NORTHWESTERN ENERGY
PED	PEDESTRIAN
PPA	PHYSICAL PLANT ACCOUNT
R	RADIUS
ROW	RIGHT-OF-WAY
RPC	RED PLASTIC CAP
	OL ODE

SLOPE

PLAN

TYPICAL

SQUARE FEET (FOOT)

STATE PLANE COORDINATE

TIME TO CONCENTRATION

TOP BACK OF CURB

STORM WATER POLLUTION PREVENTION

STORM DRAIN

STORM WATER

S =

SF

SD

SPC

SW

TC

TYP.

SWPPP

LEGEND

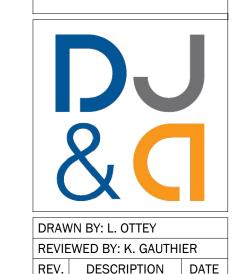
E	EXISTING ELECTRIC PEDESTAL OR JUNCTION BOX
	EXISTING OVERHEAD UTILITY POLE
\(\phi\)	EXISTING LIGHT POLE
Т	EXISTING TELEPHONE PEDESTAL
S	EXISTING MANHOLE COVERS
	EXISTING WATER HYDRANT
\otimes	EXISTING WATER VALVE
	EXISTING STORM SUMP OR CATCH BASIN
	EXISTING VEHICLE HEATER BLOCK PLUGINS
S. S	EXISTING TREE
	EXISTING CURB STOPS
	EXISTING MAILBOX LOCATION
	EXISTING PLAYGROUND
	EXISTING PARK BENCH
\boxtimes	EXISTING STORM ROOF DROP INLET/OUTLET - POINT
	EXISTING BIKE RACK
W	EXISTING WATER WELL OR PUMPING STATION
ICV	EXISTING IRRIGATION WATER VALVE
	EXISTING DUMPSTER LOCATION
— OHP - — — OHP - — — OHP —	EXISTING - OVERHEAD POWER
	EXISTING - CONCRETE HATCH & CONCRETE EDGE
	EXISTING - ASPHALT HATCH & ASPHALT EDGE
	PROPOSED - CONCRETE HATCH & CONCRETE EDGE
	PROPOSED - ASPHALT HATCH & ASPHALT EDGE

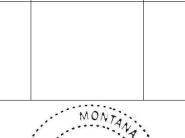


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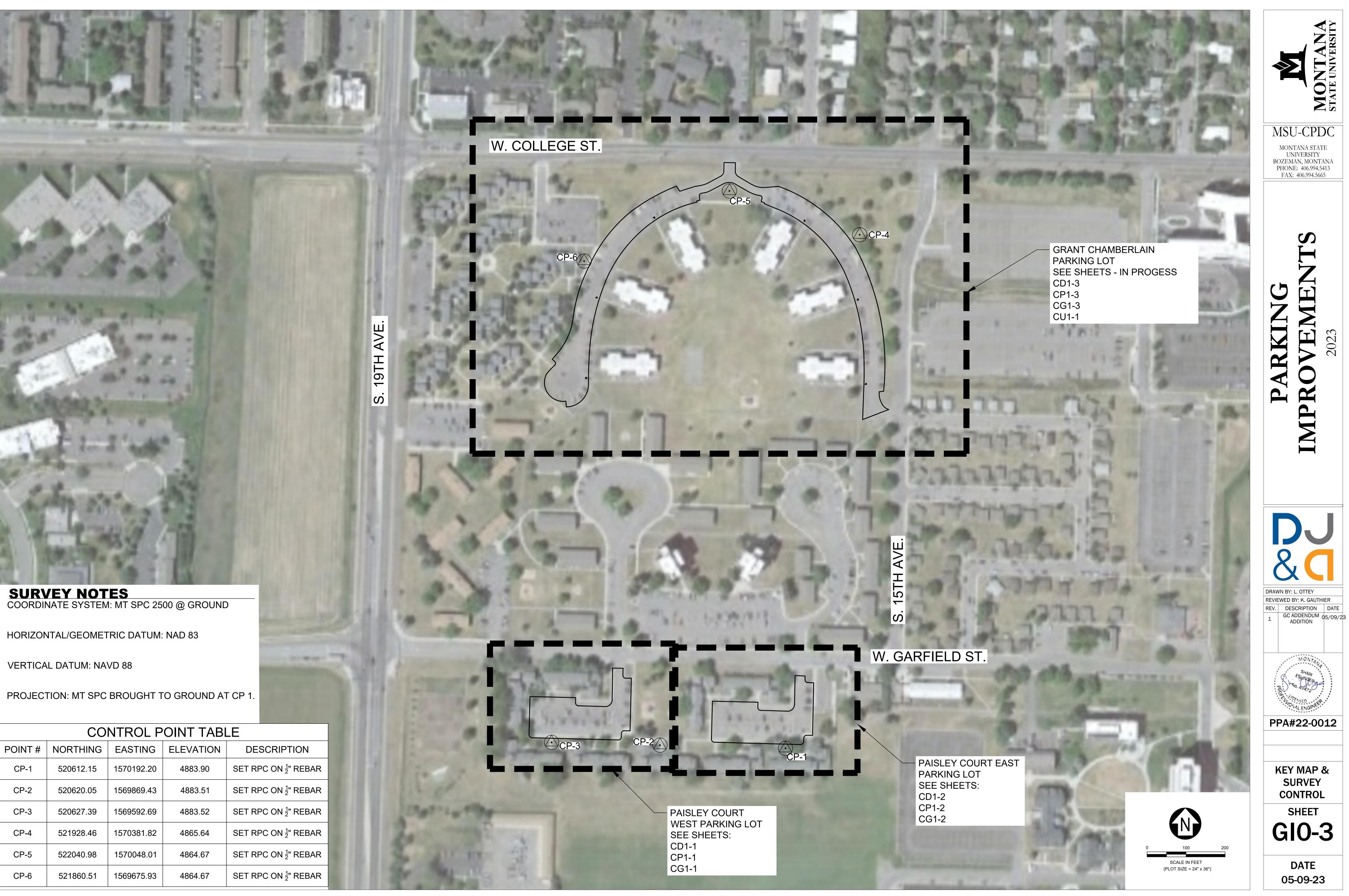
PPA#22-0012

NOTES, LEGEND, & ABBREVIATIONS

SHEET GIO-2

DATE

05-09-23





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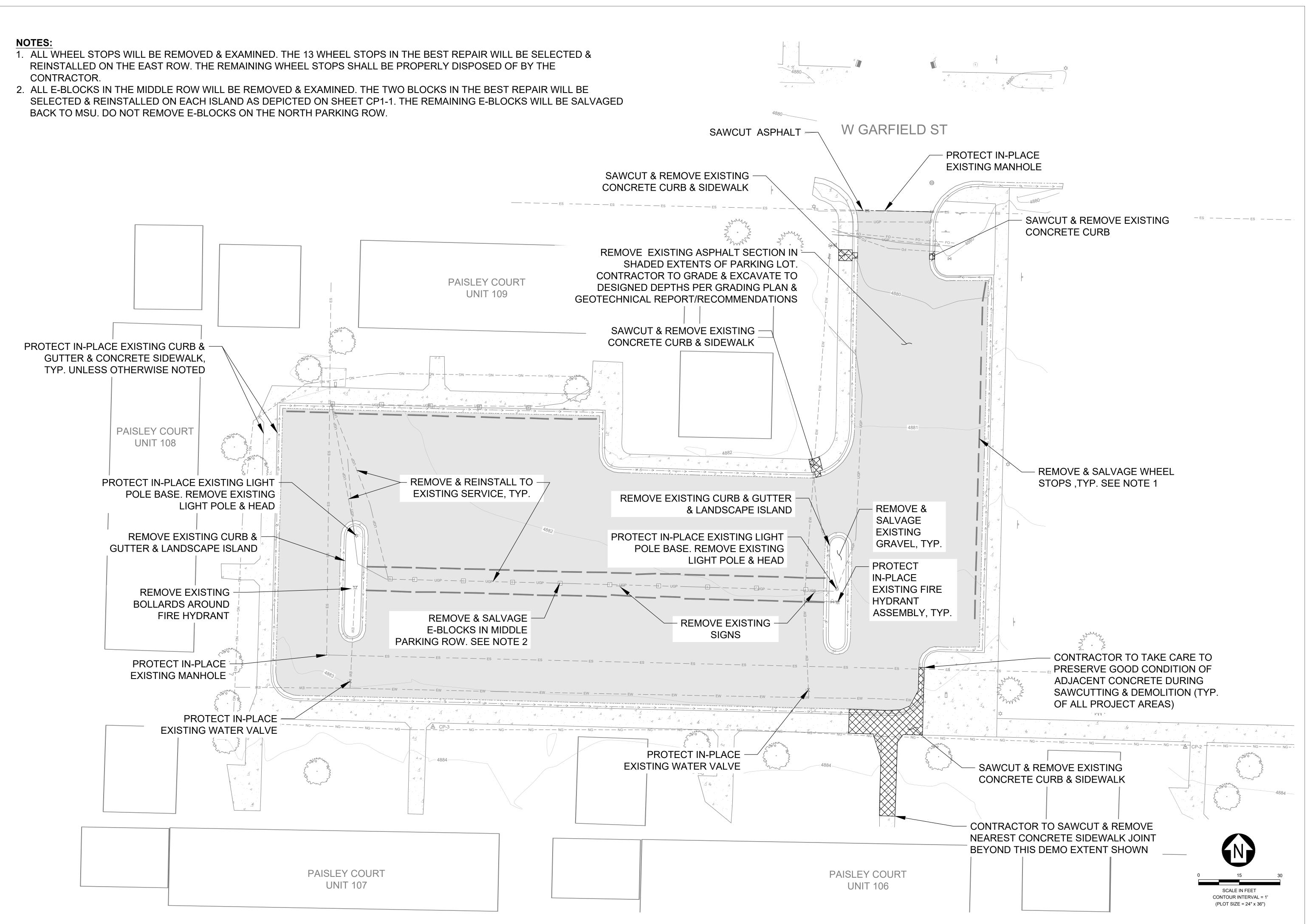
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KEY MAP & SURVEY CONTROL

SHEET G10-3

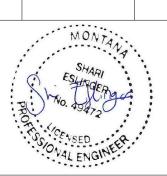




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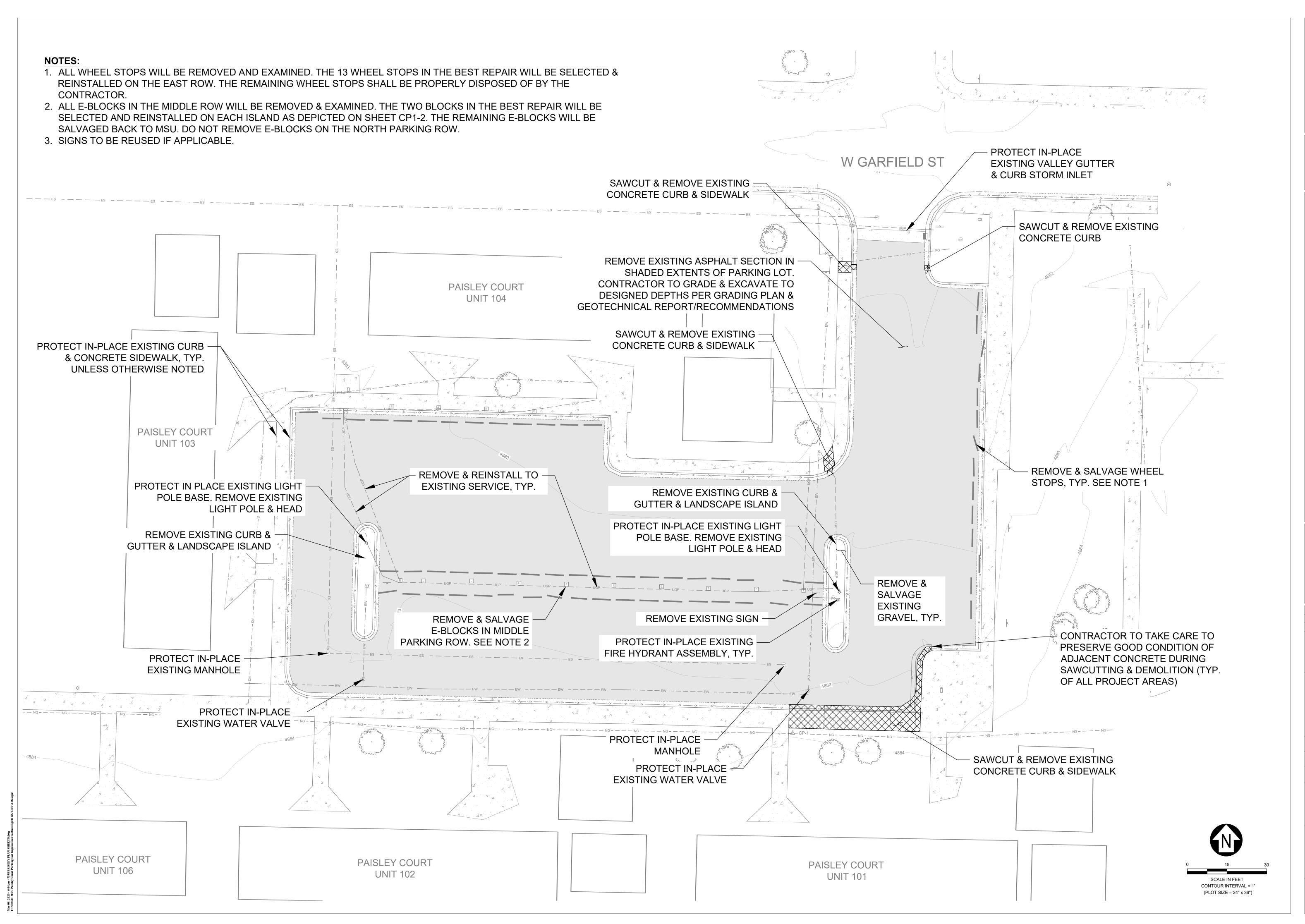
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PAISLEY COURT WEST - DEMO PLAN

SHEET CD1-1





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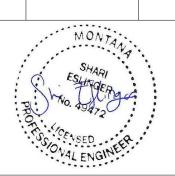
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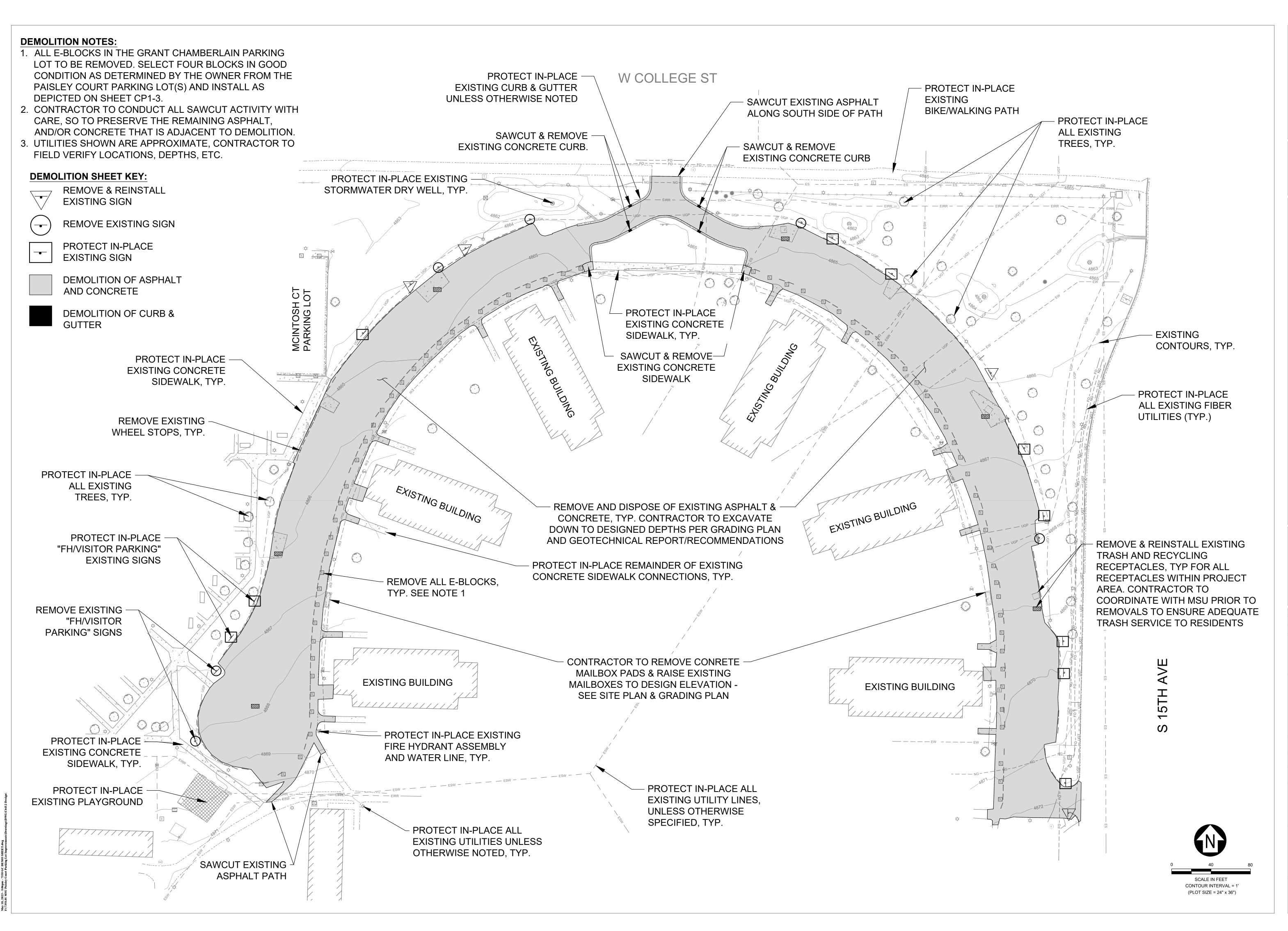
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PAISLEY COURT EAST - DEMO PLAN

SHEET CD1-2





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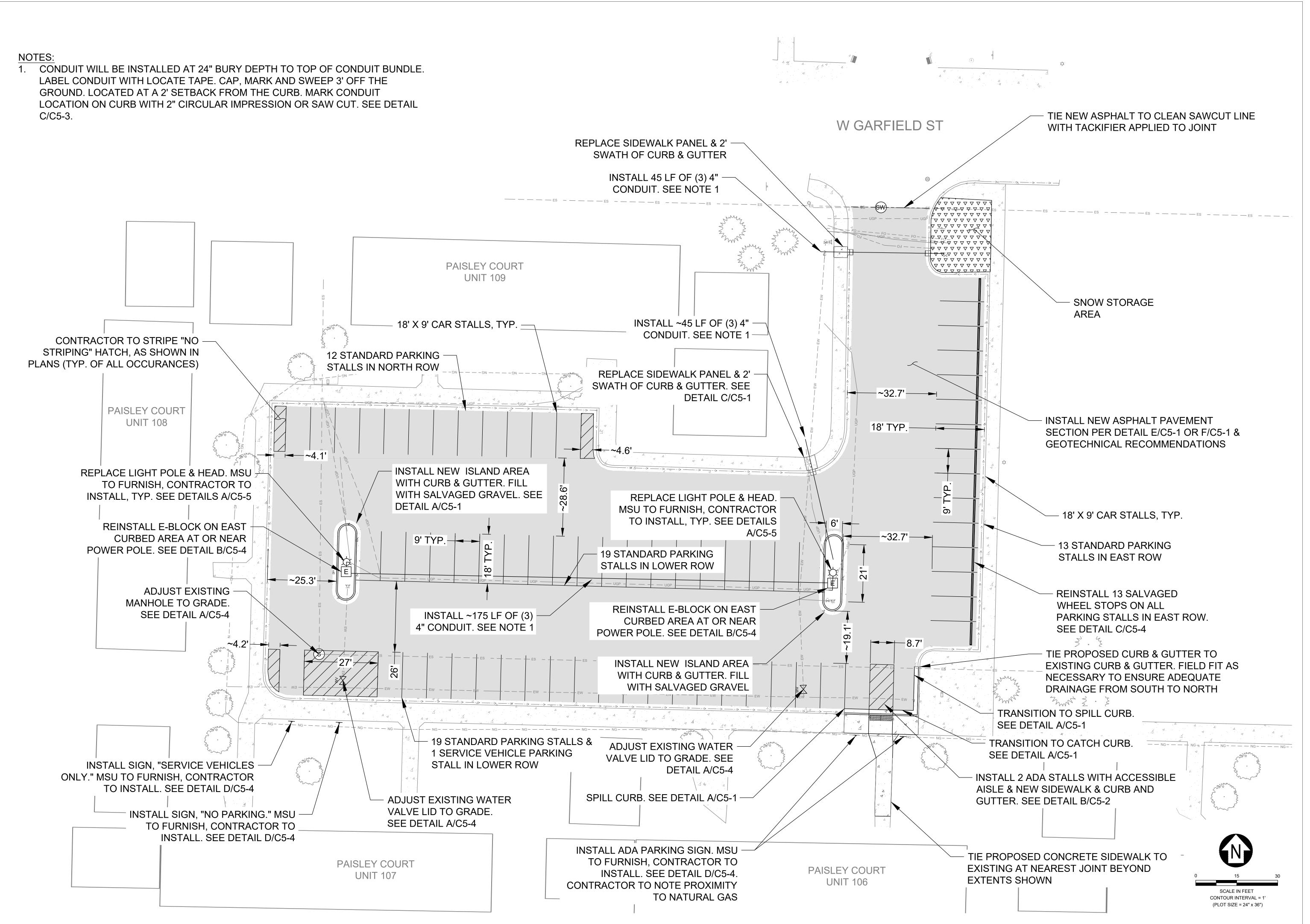
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MONTANA SHARI ESHINGERNA WNO. ASSATZ

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GRANT CHAMBERLAIN -DEMO PLAN

SHEET CD1-3



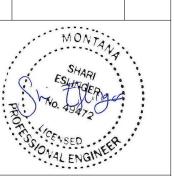


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WEST PAISLEY COURT- SITE PLAN

SHEET **CP1-1**



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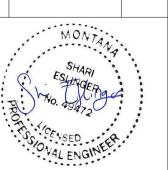
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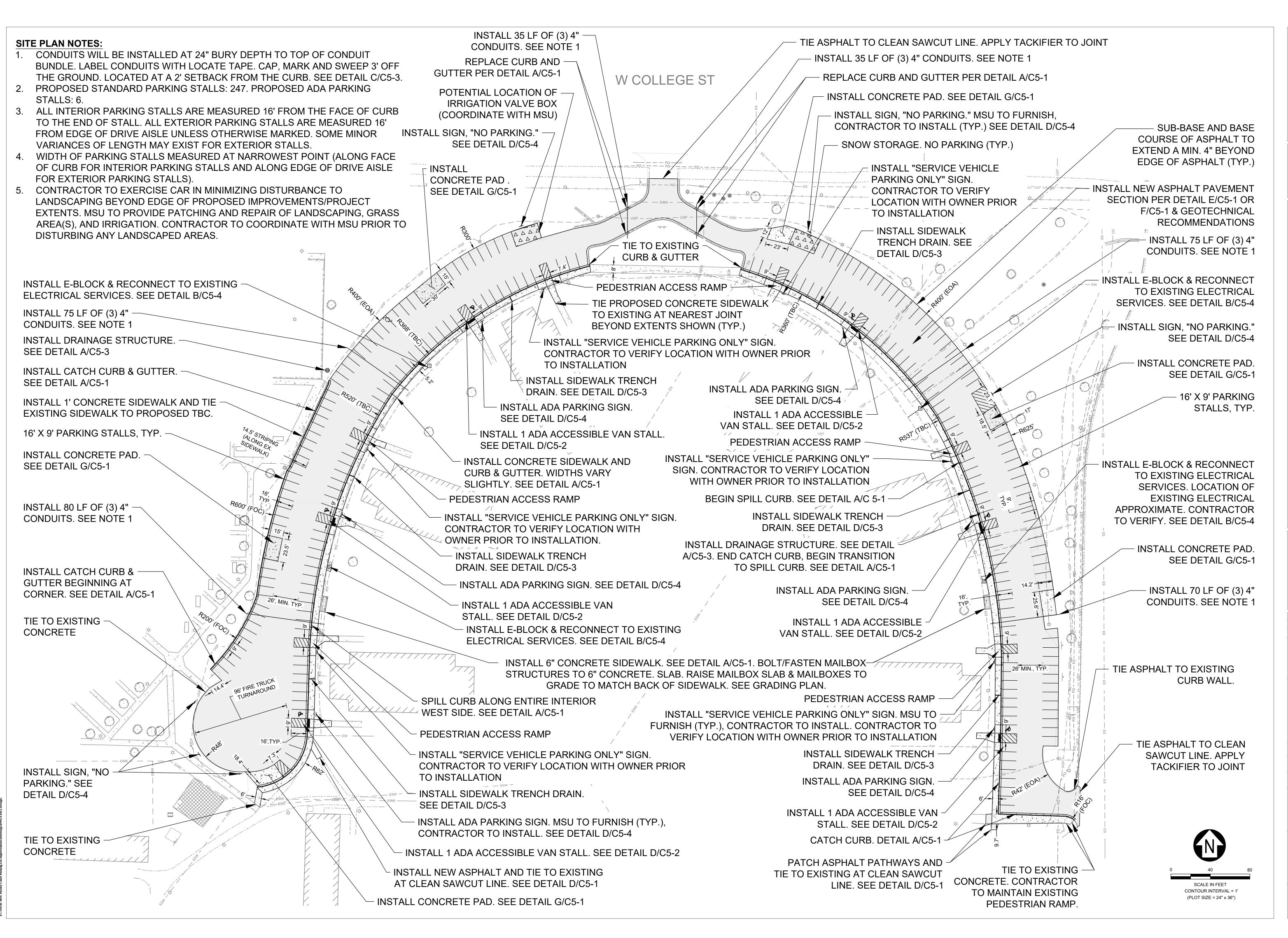


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PAISLEY COURT EAST - SITE PLAN

SHEET

CP1-2





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KING EMENTS

DJ & C

MP

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SHARI ESHINGERIGIA VNO. SHARI VNO. SHARI VNO. SHARI VOENSED VAL ENGINE

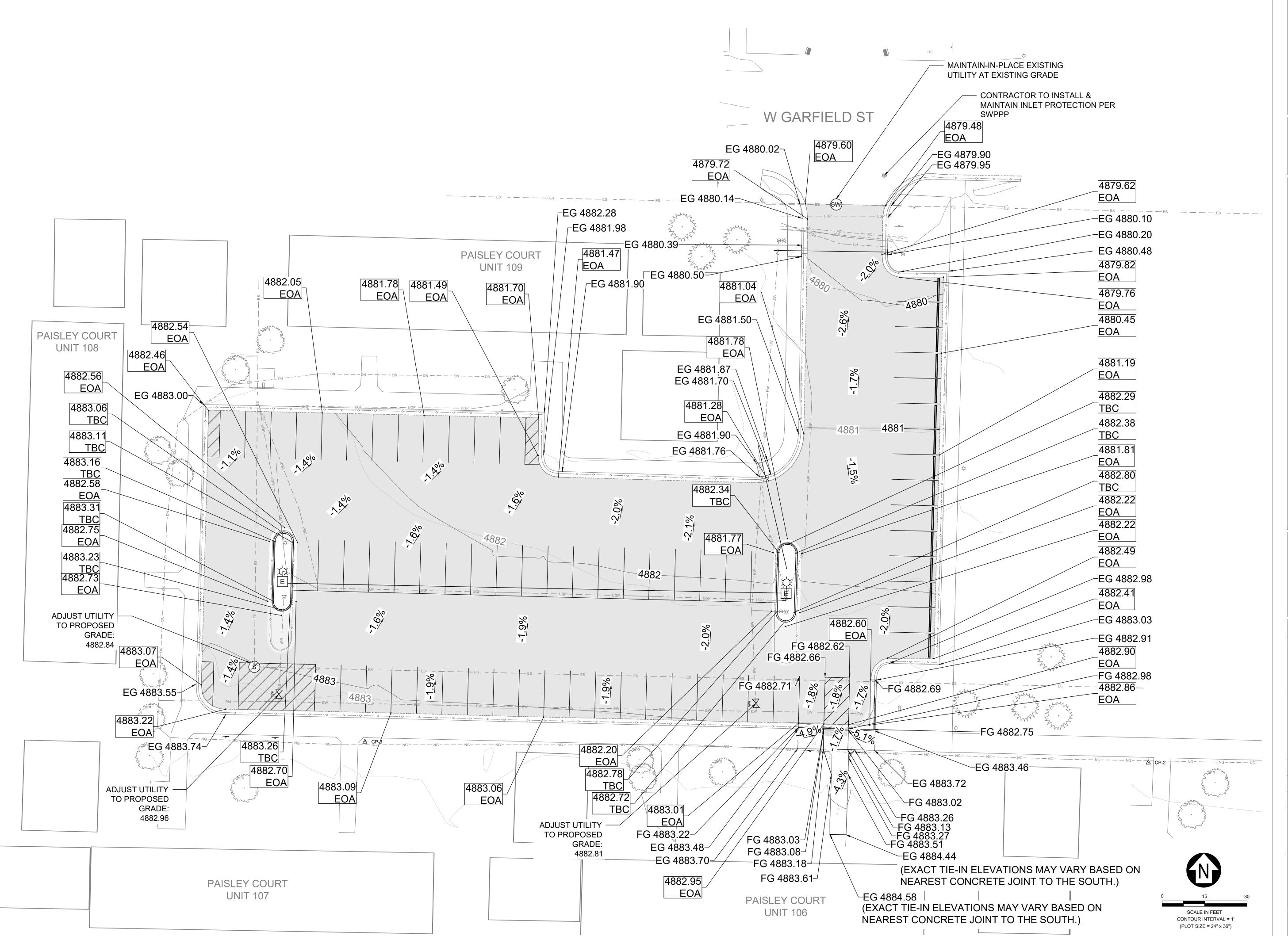
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GRANT CHAMBERLAIN -SITE PLAN

SHEET CP1-3

DATE

05-09-23



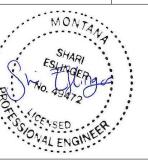


JG ENTS

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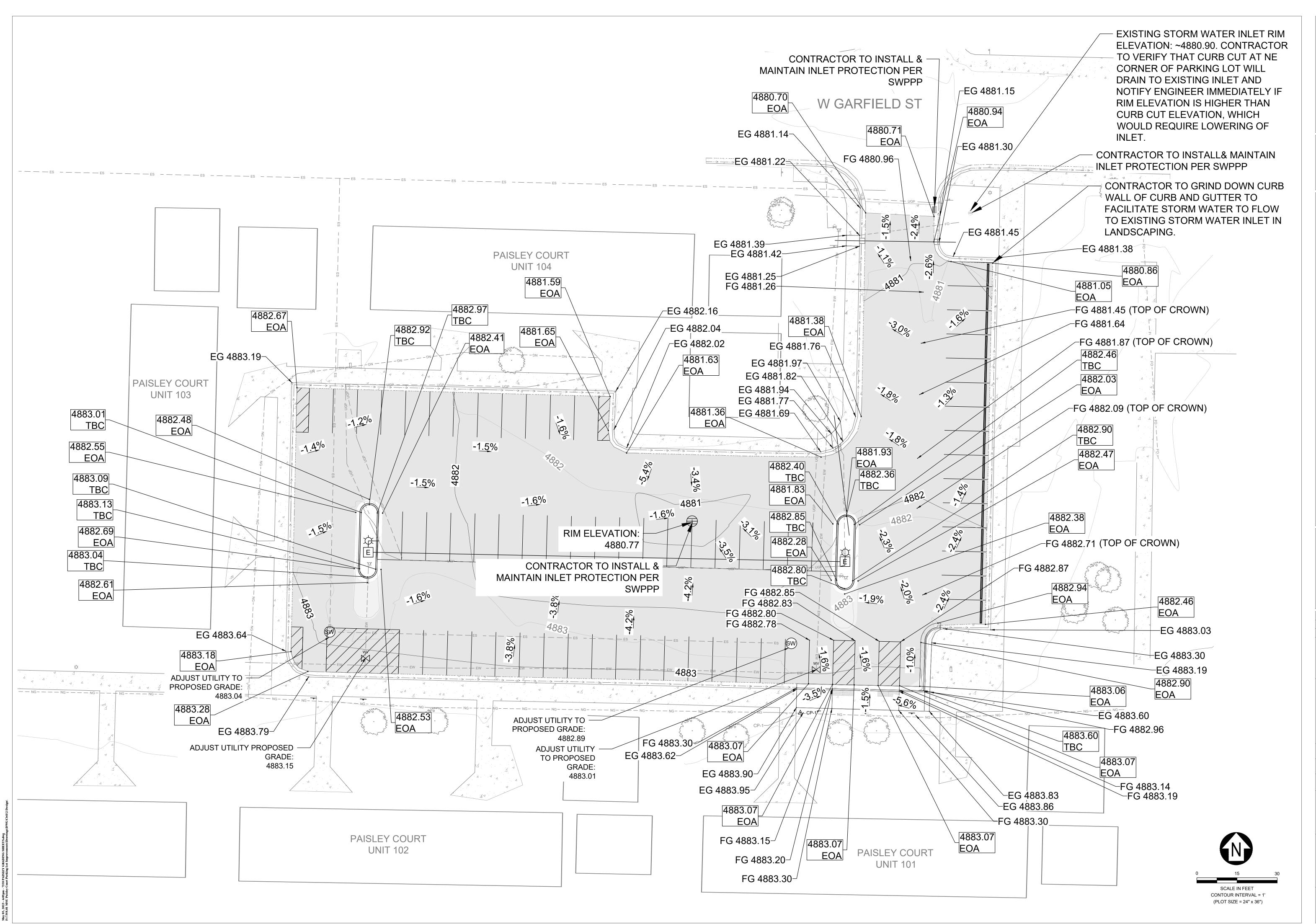


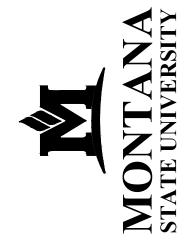
PPA#22-0012

PAISLEY COURT WEST - GRADING PLAN

SHEET

CG1-1





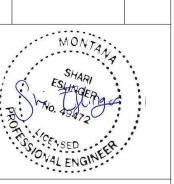
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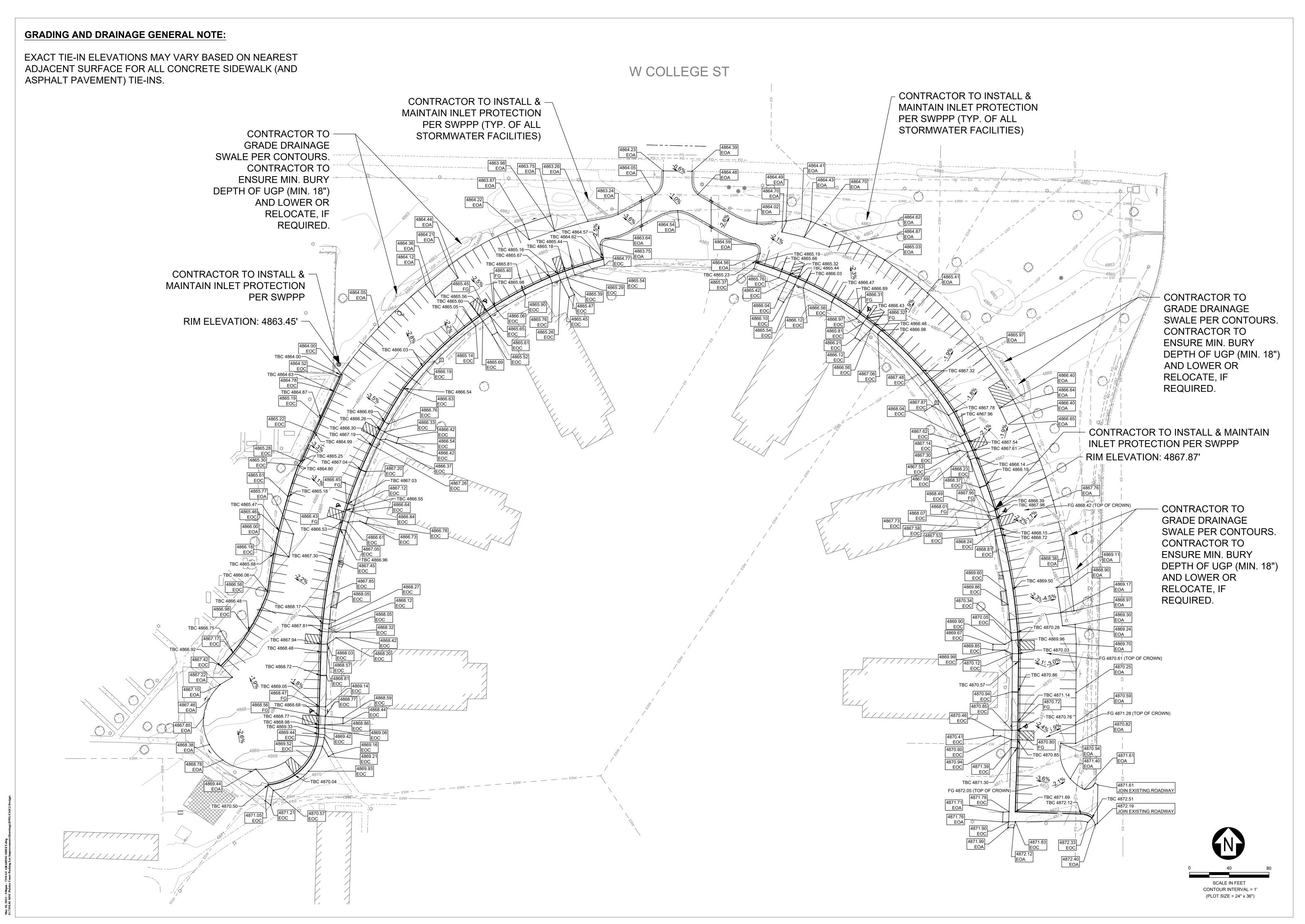


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PAISLEY COURT EAST - GRADING PLAN

SHEET

CG1-2





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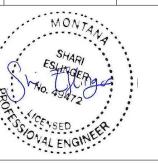
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IMPROVEMENT



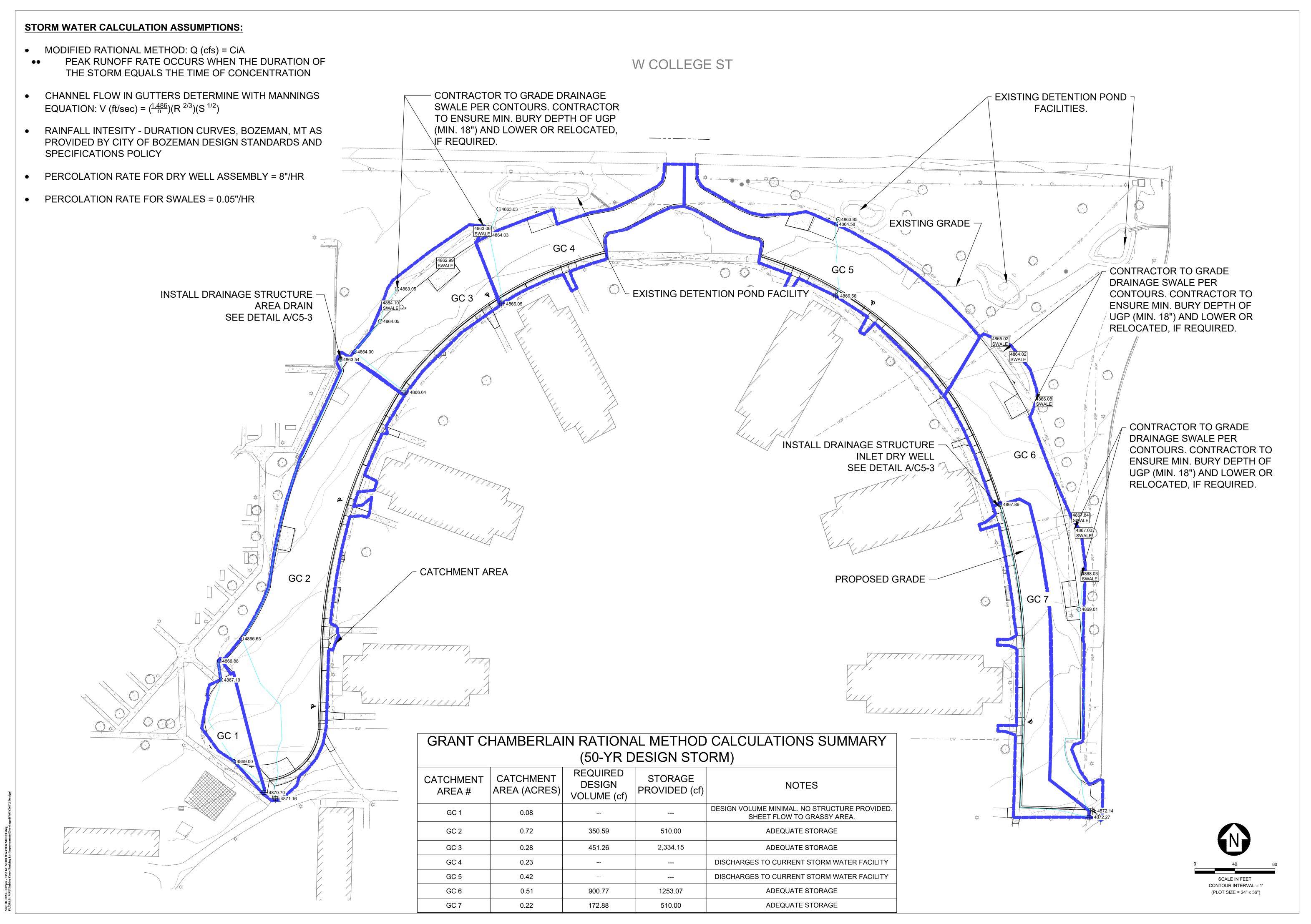
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GRANT CHAMBERLAIN -GRADING PLAN

SHEET CG1-3





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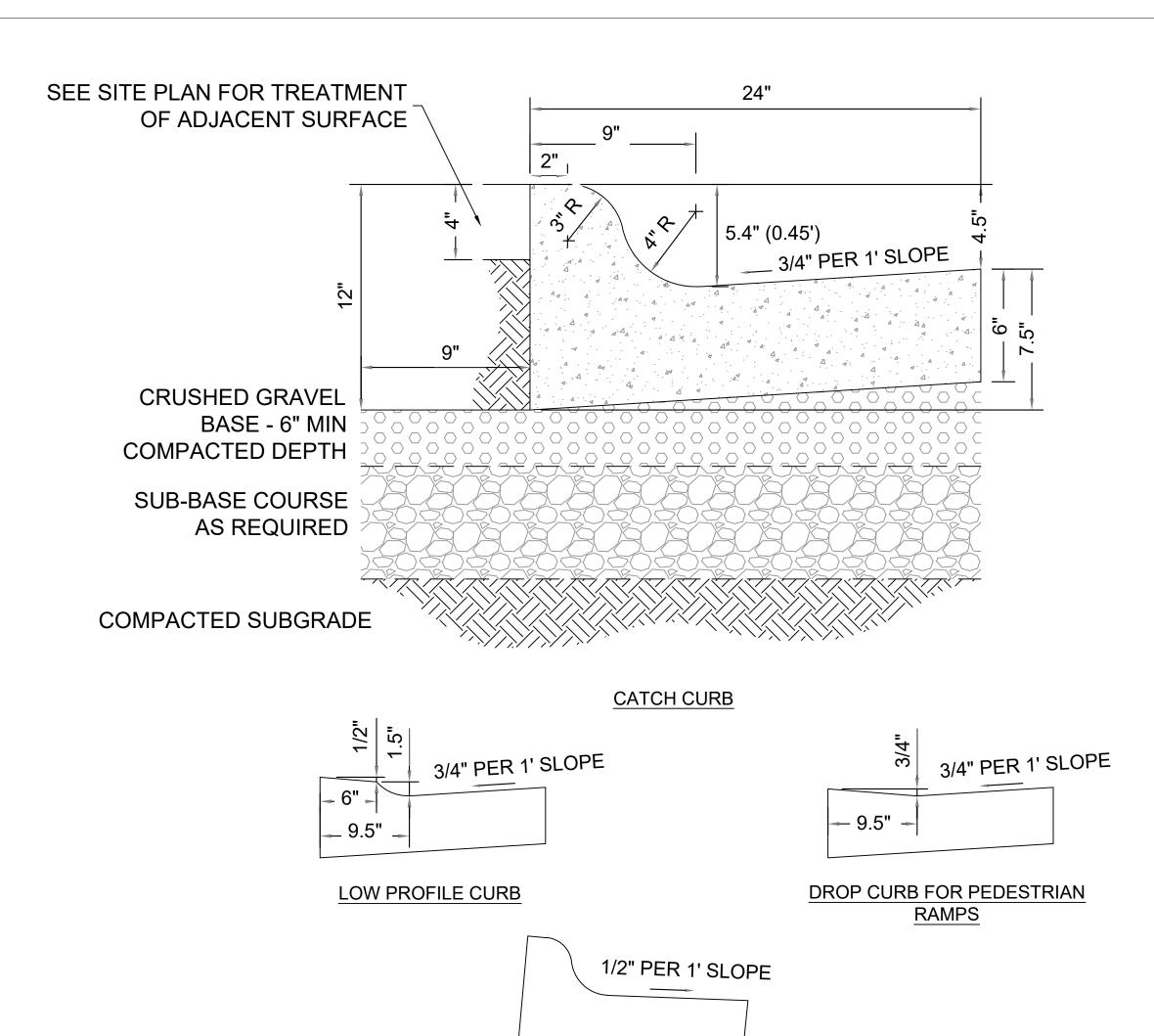
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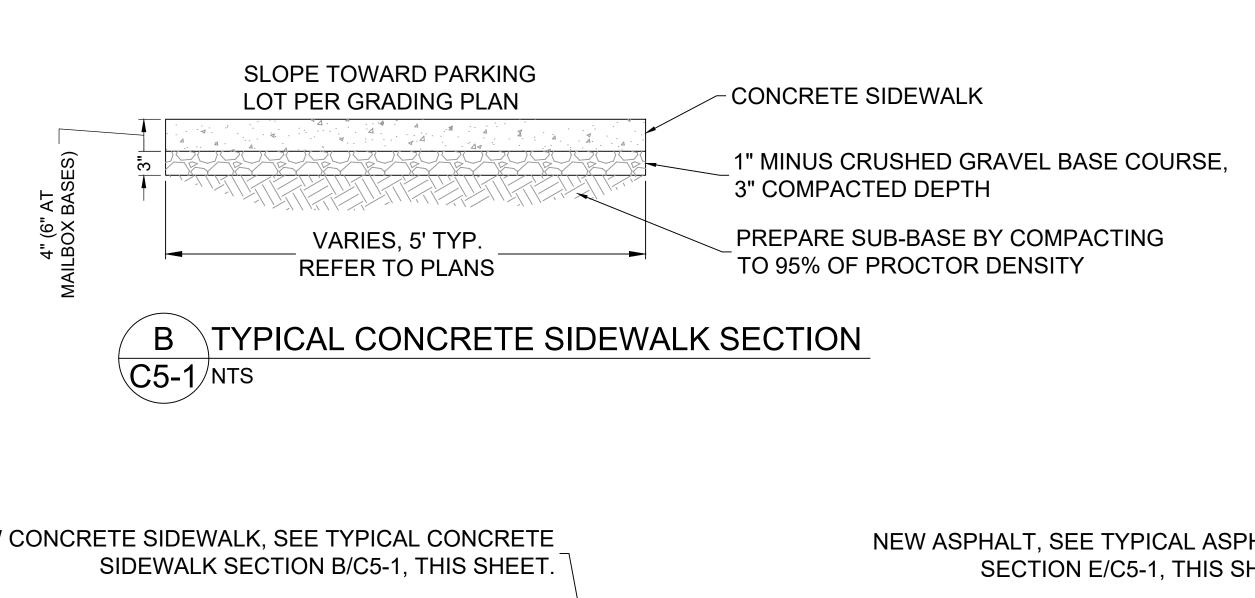


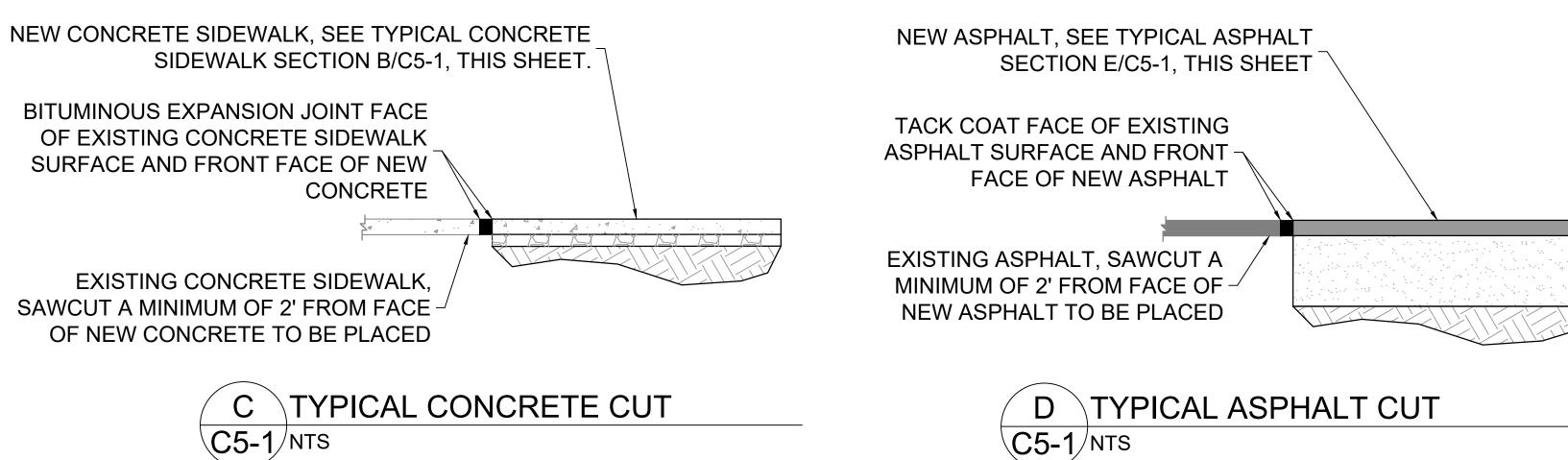
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GRANT CHAMBERLAIN -STORM WATER

SHEET CU1-1

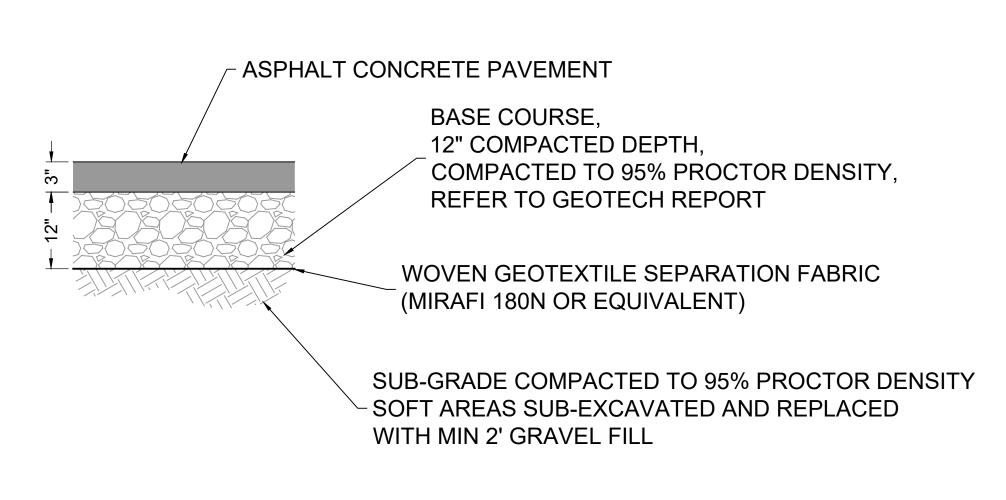




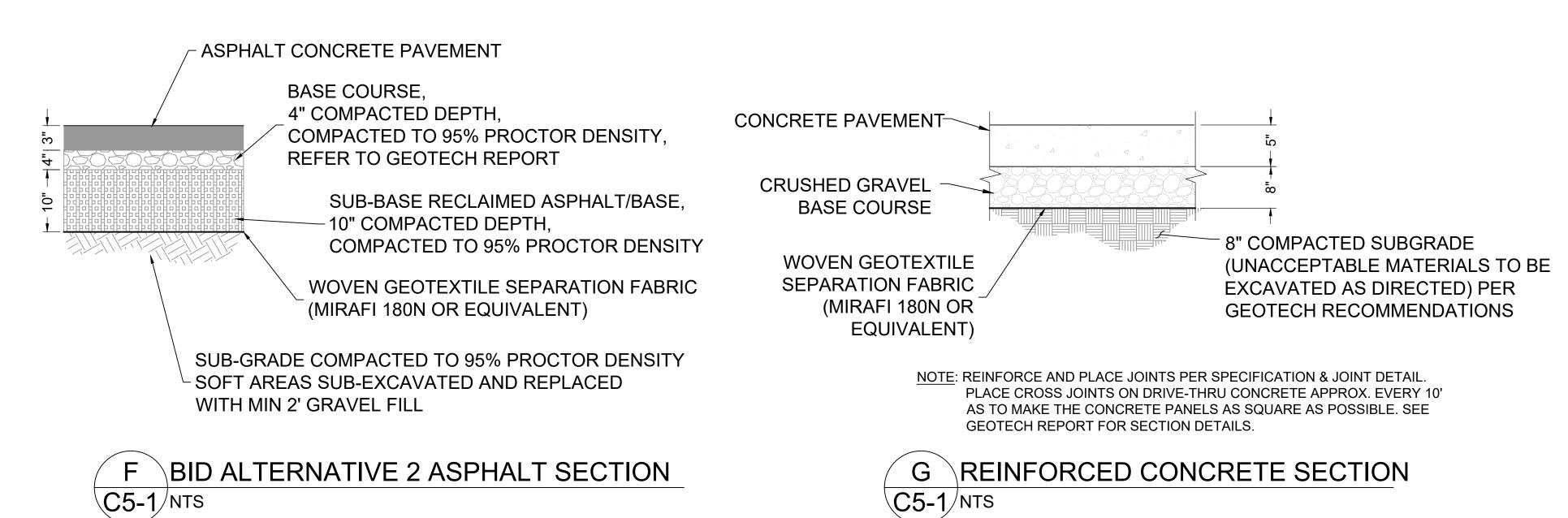


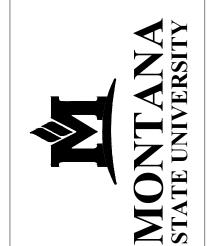


SPILL CURB







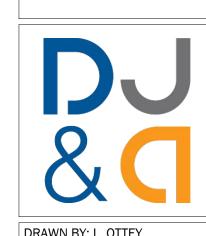


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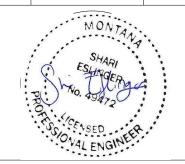
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MPROVEME



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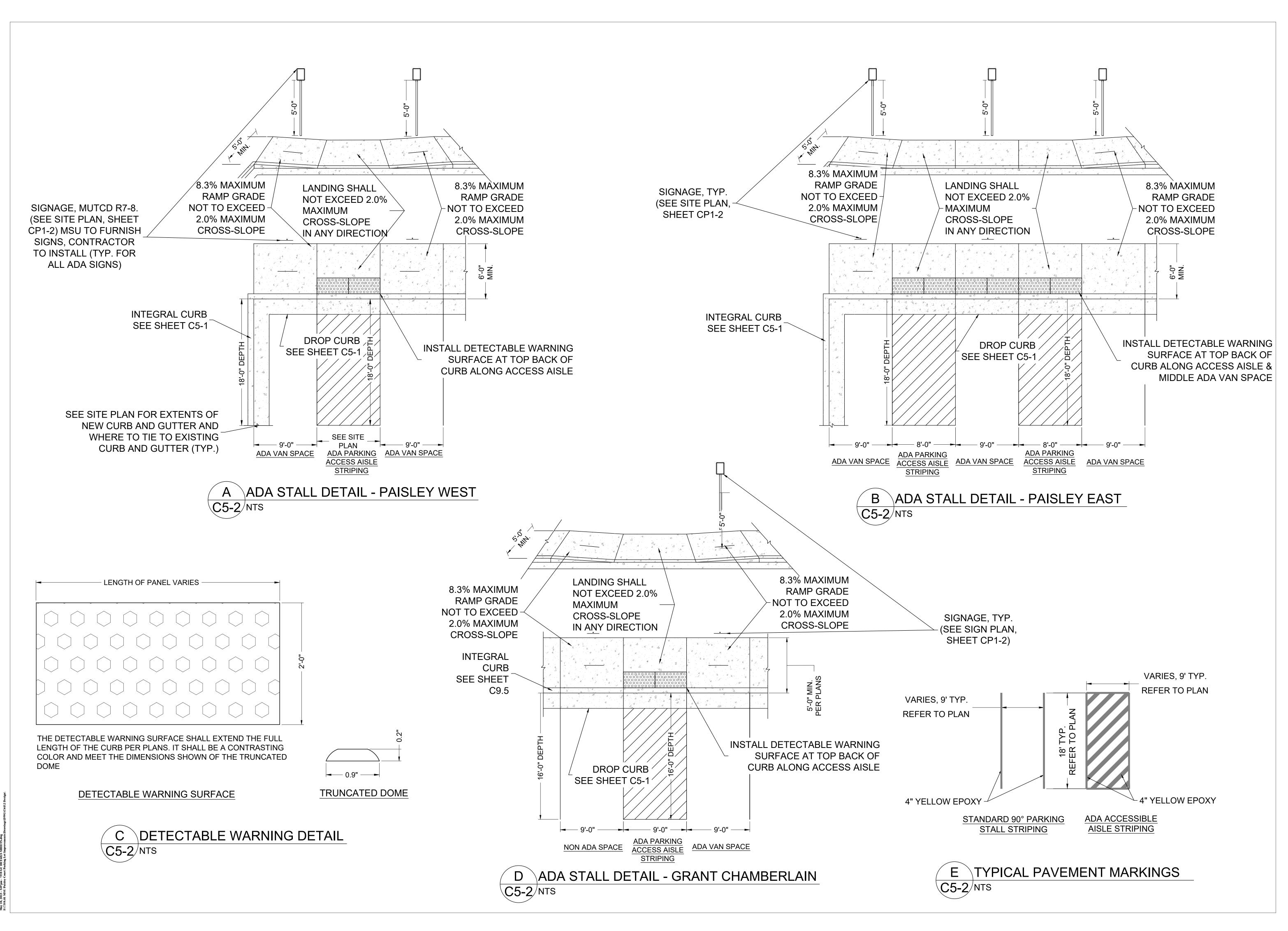


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DETAILS 1

SHEET

C5-1





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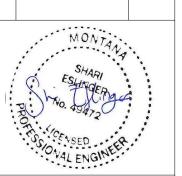
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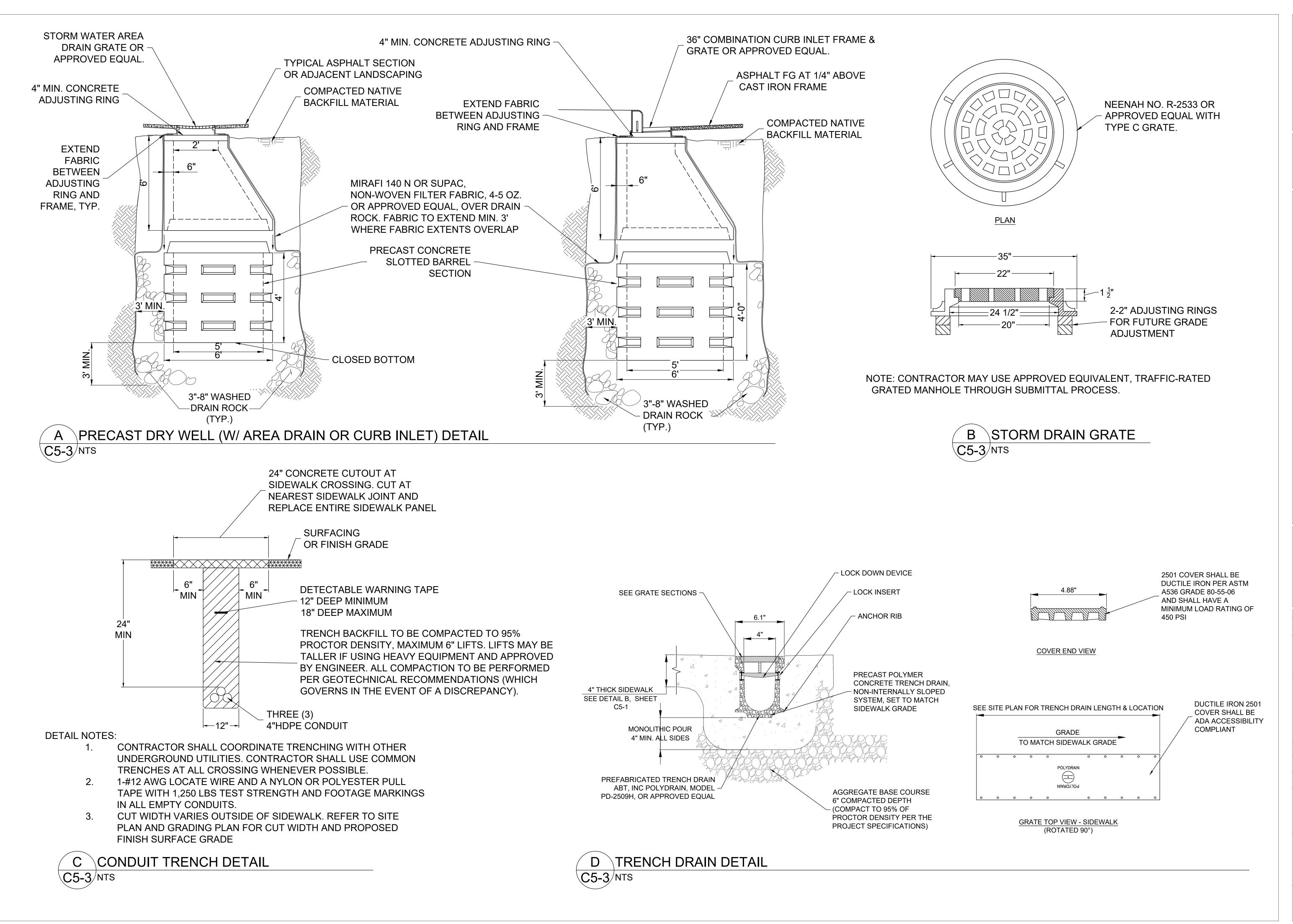


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DETAILS 2

SHEET

C5-2

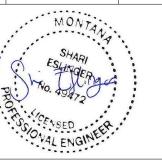




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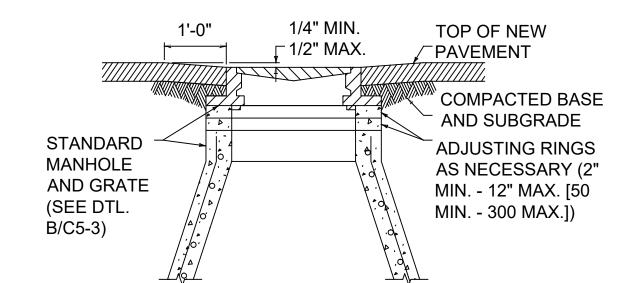


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DETAILS 3

SHEET

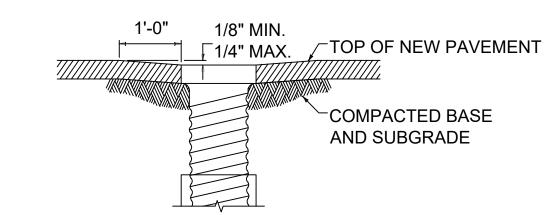
C5-3



- NOTES:

 1. ADJUST MANHOLES UPWARD WITH ADJUSTING RINGS UNDER FRAME.
- 2. ADJUST MANHOLES DOWNWARD BY REMOVING CONE AND BARREL SECTIONS AS NECESSARY AND REPLACING WITH
- SECTIONS OF LENGTH REQUIRED TO MATCH GRADE.
- 3. SLOPE MANHOLE FRAME AS REQUIRED TO MATCH SLOPE OF STREET.
- 4. MAKE FINAL MANHOLE ADJUSTMENTS BEFORE PAVING.

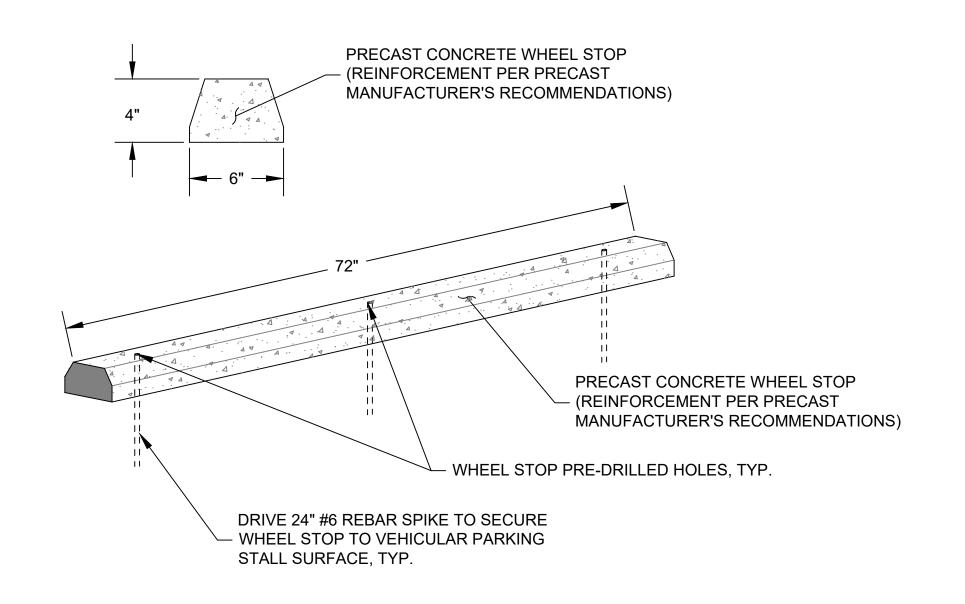
MANHOLE ADJUSTMENT DETAIL



NOTES: 1. ADJUST WATER VALVES UPWARD OR DOWNWARD AS REQUIRED. 2. MAKE FINAL ADJUSTMENTS BEFORE PAVING.

VALVE BOX ADJUSTMENT DETAIL

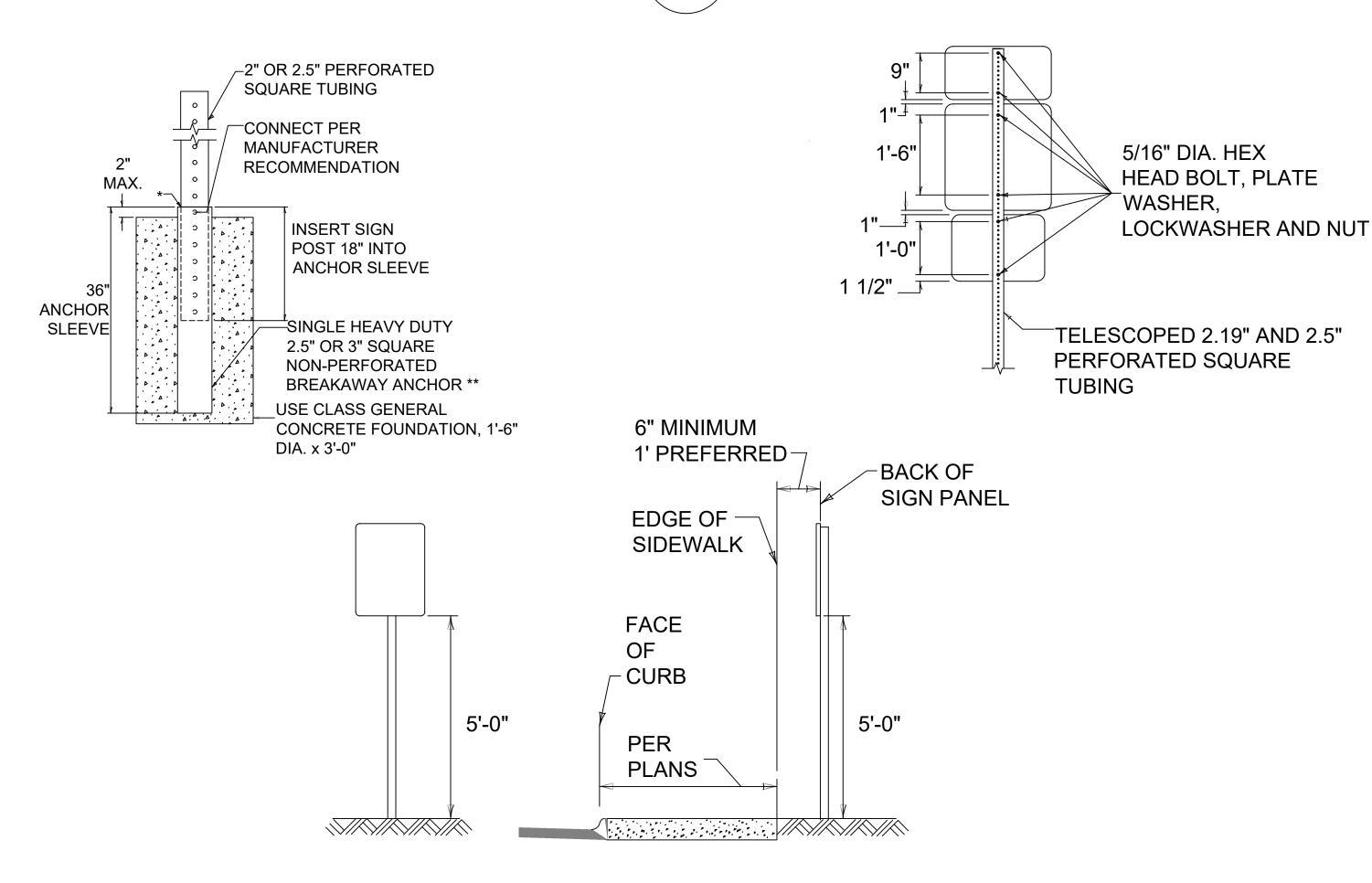
A MANHOLE AND VALVE BOX ADJUSTMENT DETAILS **C5-4**/NTS



C CONCRETE WHEEL STOP DETAIL C5-4 NTS





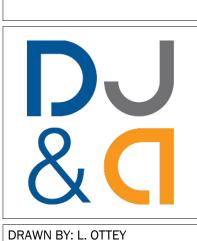


C5-4/NTS

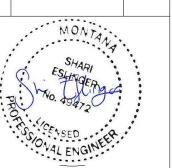
D SIGN INSTALATION DETAIL



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DETAILS 4

SHEET

C5-4

BOZEMAN, MONTANA

MSU - PAISLEY COURT || LIGHTING PLAN

CONSTRUCTION DOCUMENTS

DATE ISSUED | 03/01/2023 PROJECT ENGINEER | ANDY MOORE Issue

1 B01 IDENTIFICATION
a B01: LUMINAIRE TYPE
a: SWITCH/ZONE
1: CIRCUIT NUMBER
FILLED LUMINAIRE INDICATED EMERGENCY OPERATION

FILLED LUMINAIRE INDICATED EMERGENCY OPER
SURFACE MOUNTED LUMINAIRE
RECESSED LUMINAIRE

WALL WASH LUMINAIRE
ARROW INDICATED ORIENTATION

WALL MOUNTED LUMINAIRE
+XX" INDICATES MOUNTING HEIGHT TO CENTER

SUSPENDED LUMINAIRE

POLE MOUNTED LUMINAIRE

←☐ POLE MOUNTED LUMINAIRE WITH ARMPOST MOUNTED LUMINAIRE

GROUND/FLOOR MOUNTED LUMINAIRE

TRACK LUMINAIRE SYSTEM (LENGTH, HEAD TYPES, & QUANTITIES AS INDICATED ON PLANS & SCHEDULES)

EXIT SIGN - ARROWS & FACES AS INDICATED ON PLANS

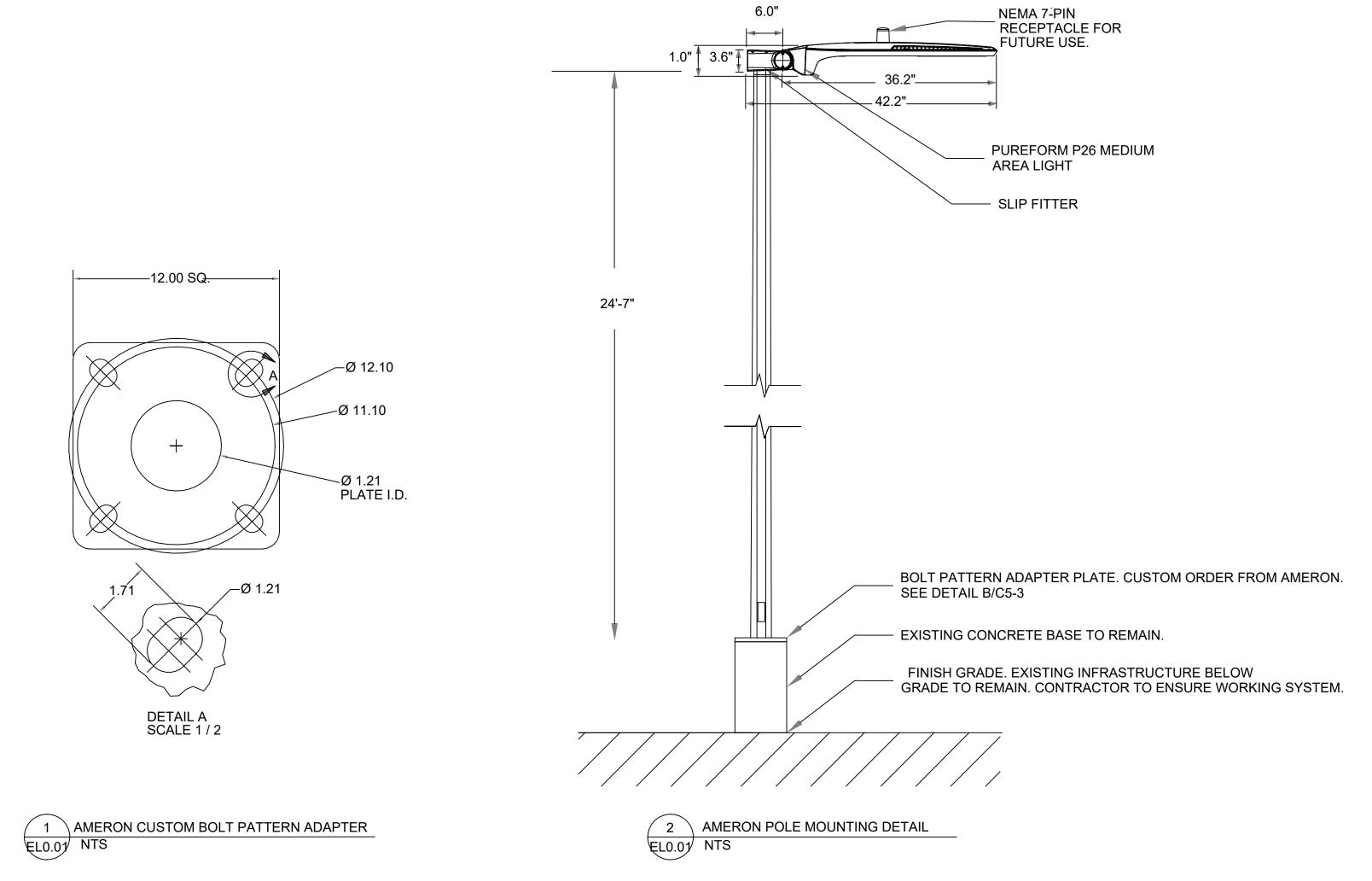
HORIZONTAL ZERO LINE INDICATED HOTLINE ZERO DRAWN FROM CENTER DIRECTIONAL ARROW INDICATED PRIMARY LUMEN ORIENTATION

DIRECTIONAL AIMING LINE

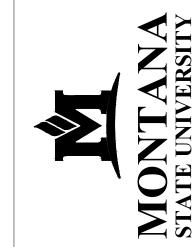
☐— DIRECTIONAL AIMING LINI

	LUMIN	NAIRE SCHED	ULE								
Type Description Manufacturer	Catalog Number	Source CRI	CCT	Voltage	Load	Luminous Flux	Efficacy	Dim	Life Expectancy		Notes
B01 STREET/PARKING ENTRY LUMINIARE GARDCO	P26-64L-600-WW(80CRI)-G2-SF-2-277-FAWS-TLRD7-F1-BZ // PTF2-P26/34-1-90-(F)	LED 80	3000K	277 V	167 VA	14493 lm	127 lm/W	FAWS	,	XISTING POLE BRONZE N/ SLIPFITTER	2
B02 PARKING LOT LUMINIARE GARDCO	P26-80L-700-WW(80CRI)-G2-SF-5W-277-FAWS-TLRD7-F1 // PTF2-P26/34-1-90-(F)	LED 80	3000K	277 V	169 VA	21363 lm	127 lm/W	FAWS	100,000 2	25' NEW POLE BRONZE	1

1.PROVIDE & INSTALL NEW AMERON #MEO-7.5 POLE AND CUSTOM BOLT PATTERN ADAPTER PROVIDED BY AMERON. REFER TO DETAIL 1/EL0.01 2. EXISTING POLE TO REMAIN.







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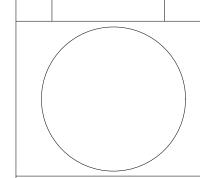
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DETAILS 5

SHEET

C5-5