

TERRACE HILL  
2300 GRAND AVE  
DES MOINES, IA 50312



1. THE LOCATIONS OF UTILITY MAINS, STRUCTURES AND SERVICE CONNECTIONS PLOTTED ON THESE DRAWINGS ARE APPROXIMATE ONLY AND WERE OBTAINED FROM RECORDS MADE AVAILABLE TO SHIVE-HATTERY, INC. THERE MAY BE OTHER EXISTING UTILITY MAINS, STRUCTURES AND SERVICE CONNECTIONS NOT KNOWN TO SHIVE-HATTERY, INC. AND NOT SHOWN ON THESE DRAWINGS. THE VERIFICATION OF EXISTENCE OF, AND THE DETERMINATION OF THE EXACT LOCATION OF, UTILITY MAINS, STRUCTURES AND SERVICE CONNECTIONS SHALL BE THE RESPONSIBILITY OF THE CONSTRUCTION CONTRACTOR(S).
2. CONTRACTOR SHOULD ANTICIPATE THAT ADDITIONAL UTILITIES THAT ARE NOT SHOWN WILL BE ENCOUNTERED. CONTRACTOR TO WORK WITH FACILITY AND ENGINEER AS REQUIRED TO MAKE FIELD ADJUSTMENTS.
3. IOWA CODE UNDERGROUND FACILITIES INFORMATION, REQUIRES VERBAL NOTICE TO IOWA ONE-CALL 1-800-292-8989, NOT LESS THAN 48 HOURS BEFORE EXCAVATING, EXCLUDING WEEKENDS AND HOLIDAYS.
4. NOTIFY UTILITY COMPANIES WHOSE FACILITIES ARE SHOWN ON THE PLANS OR KNOWN TO BE WITHIN THE CONSTRUCTION LIMITS OF THE SCHEDULE PRIOR TO EACH STAGE OF CONSTRUCTION.
5. CONTRACTOR SHALL VERIFY AND COORDINATE WITH OWNER TO LOCATE ALL PRIVATE UTILITIES WHICH WILL BE IMPACTED BY CONSTRUCTION.
6. THE MEANS OF THE WORK AND THE SAFETY OF THE CONTRACTOR'S EMPLOYEES ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
7. NO WORK SHALL BE PERFORMED BEYOND THE PROJECT LIMITS WITHOUT PRIOR AUTHORIZATION FROM THE OWNER'S REPRESENTATIVE.
8. UNLESS OTHERWISE SPECIFIED, ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE IOWA STATEWIDE URBAN DESIGN SPECIFICATIONS FOR PUBLIC IMPROVEMENTS.
9. PROTECT EXISTING UTILITIES AND STRUCTURES TO REMAIN DURING CONSTRUCTION.
10. MAINTAIN POSITIVE DRAINAGE ON THE SITE THROUGHOUT THE PROJECT DURATION.



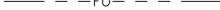
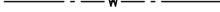
- ## CONTACT INFORMATION

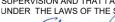
SHIVE-HATTERY, INC.  
ATTN: CHRIS BAUER OR CHRIS MARVIN  
CBAUER@SHIVE-HATTERY.COM  
CMARVIN@SHIVE-HATTERY.COM  
4125 WESTOWN PKWY, SUITE 100  
WEST DES MOINES, IOWA 50266  
PHONE: (515) 223-8104

IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES  
STATE DESIGN AND CONSTRUCTION RESOURCES BUREAU  
ATTN: JOSH HERMAN  
JOSH.HERMAN@IOWA.GOV  
109 SE 13TH STREET  
DES MOINES, IOWA 50319  
PHONE: 515-725-1293

DCI GROUP  
ATTN: MICHAEL STEEN  
MICHAELS@DCIGROUP-US.COM  
220 SE 6TH ST, SUITE 200  
DES MOINES, IOWA 50309  
PHONE: (515) 975-8348

TERRACE HILL  
2300 GRAND AVE  
DES MOINES, IA 50312

EXISTING	DESCRIPTION	PROPOSED
	TREE	
	TREE REMOVAL	
	LIGHT POST	
	BOLLARD	
	FIRE HYDRANT	
	VALVE	
	CLEANOUT	
	CURB INTAKE	
	STORM INTAKE	
	FLARED END SECTION	
	DRAINAGE MANHOLE	
	SANITARY MANHOLE	
	TRANSFORMER	
	CURB AND GUTTER (PCC)	
	MAJOR CONTOUR	
	MINOR CONTOUR	
	GAS MAIN	
	SANITARY SEWER	
	STORM SEWER	
	SUBDRAIN	
	FIBER OPTIC	
	WATER MAIN	
	BUILDING	
	PAVING DEMO	
	PAVING	

	I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT DESCRIBED BELOW WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.	
		07/15/2022
	Signature:	Date:
	Printed or typed name: STEVE BRASE License Number: 8890 My License Renewal Date is: DECEMBER 31, 2023 PAGES, SHEETS OR DIVISIONS COVERED BY THIS SEAL: ALL 'S' SHEETS	

	<p>I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT DESCRIBED BELOW WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.</p> <p>Signature: <u>Chris Bauer</u> Date: <u>07/15/2022</u></p> <p>Printed or typed name: <b>CHRISTOPHER R. BAUER</b></p> <p>License Number: <b>19373</b></p> <p>My License Renewal Date is: <b>DECEMBER 31, 2023</b></p> <p>PAGES, SHEETS OR DIVISIONS COVERED BY THIS SEAL: <b>ALL 'C' SHEETS</b></p>
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TERRACE HILL GRAND AVENUE  
PUBLIC PARKING LOT WALL REPAIR

IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES  
9269.00  
2300 GRAND AVE, DES MOINES, IA 50312

**SHIVELI** ARCHITECTURE+ENGINEERING

4125 WESTOWN PKWY, SUITE 100  
WEST DES MOINES, IOWA 50266  
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TRAFFIC AND PEDESTRIAN CONTROL NOTES

1.
- CONTRACTOR MUST MAINTAIN ACCESS TO ADJACENT PARKING LOT THROUGHOUT CONSTRUCTION.
2.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTROL VEHICULAR AND PEDESTRIAN TRAFFIC DURING CONSTRUCTION AND PROVIDE ADEQUATE TRAFFIC AND PEDESTRIAN CONTROL AND SIGNAGE. AT A MINIMUM, CONTRACTOR TO PROVIDE TYPE 4 BARRICADES AT EACH END OF CLOSED DRIVES AND APPROPRIATE SIDEWALK CLOSURES.
3.
- CONTRACTOR TO INSTALL AND MAINTAIN ORANGE CONSTRUCTION FENCE OR TEMPORARY CHAINLINK FENCE AROUND ALL AREAS OF ACTIVE CONSTRUCTION. CONTRACTOR SHALL ASSUME PEDESTRIAN TRAFFIC WILL BE IN THE AREA THROUGHOUT THE PROJECT DURATION.

EROSION CONTROL NOTES

1.
- AN NPDES PERMIT WILL NOT BE REQUIRED FOR THE PROJECT AS IT WILL HAVE A TOTAL DISTURBED AREA OF LESS THAN ONE ACRE.
2.
- USE ALL AVAILABLE MEANS TO MINIMIZE THE AMOUNT OF SOIL EROSION CAUSED BY THE WORK OF THE PROJECT. THIS INCLUDES RESPONSIBILITY FOR MAINTENANCE OF ALL SOIL EROSION CONTROL DEVICES. REPAIRS TO SOIL EROSION CONTROL DEVICES SHALL BE COMPLETED WITHIN 2 DAYS FROM NOTIFICATION.
3.
- CONTRACTOR SHALL STILL COMPLY WITH APPLICABLE IOWA DNR, US EPA AND LOCAL REGULATIONS DEALING WITH STORMWATER RUNOFF AND EROSION CONTROL.
4.
- PROVIDE CONCRETE WASHOUT FACILITIES AS NEEDED.

DEMOLITION NOTES

1.
- REMOVAL REQUIREMENTS SHOWN ON THE PLANS SHOULD BE CONSIDERED MINIMUM REMOVAL AND REPLACEMENT REQUIREMENTS. CONTRACTORS SHALL ADJUST REMOVAL LIMITS AND DIMENSIONS AS REQUIRED BY CONSTRUCTION MEANS AND METHODS AND ACTUAL SITE CONDITIONS. CONTRACTORS SHOULD FACTOR ADDITIONAL ANTICIPATED REMOVAL AND REPLACEMENT REQUIREMENTS INTO THEIR BIDS AS ADDITIONAL COMPENSATION REQUESTS FOR ADJUSTED OR EXPANDED REMOVAL LIMITS WILL NOT BE APPROVED.
2.
- CONTRACTOR SHALL REPLACE AT NO COST TO THE OWNER ALL STREETS, DRIVES, SIDEWALKS, CURB AND GUTTER, SIGNS, PAVEMENT MARKINGS, LIGHTS, FENCES AND ALL OTHER SURFACE STRUCTURES NOT SCHEDULED TO BE REMOVED DURING THE COURSE OF THE WORK THAT ARE DAMAGED BY THE CONTRACTOR.
3.
- WHERE A SECTION OF PAVEMENT, CURB AND GUTTER, OR SIDEWALK IS CUT OR OTHERWISE DAMAGED BY THE CONTRACTOR, THE ENTIRE SECTION SHALL BE REMOVED AND REPLACED. PAVEMENT, CURBS, GUTTERS, AND SIDEWALKS SHALL BE REMOVED TO THE NEAREST JOINT A MINIMUM OF TWO FEET BEYOND THE EDGE OF ALL EXCAVATIONS. CONTRACTOR SHALL DOCUMENT (OR PHOTO) ALL CRACKED PCC PAVEMENT OR DAMAGED HMA PAVEMENT PRIOR TO CONSTRUCTION. IF NEW CRACKS IN PCC PAVEMENT DEVELOP OR HMA PAVEMENT IS DAMAGED DUE TO THE CONSTRUCTION TRAFFIC (EXTENDS BEYOND CONSTRUCTION LIMITS), CONTRACTOR SHALL REPLACE DAMAGED AREA AT NO ADDITIONAL COST TO OWNER.
4.
- ALL LANDSCAPING INCLUDING TREES, SHRUBS, PERENNIALS NOT CALLED OUT TO BE REMOVED OR APPROVED FOR REMOVAL BY CONSTRUCTION MANAGER SHALL BE PROTECTED AND REPLACED AT NO COST TO THE OWNER IF DAMAGED DURING CONSTRUCTION.

EXCAVATION NOTES

1.
- STRIP, STOCKPILE, AND RESPREAD A MINIMUM OF 6" OF TOPSOIL IN ALL SOD AREAS DISTURBED BY CONSTRUCTION. DISTURBED AREAS SHALL BE LEFT IN SMOOTH CONDITION READY FOR FINAL SEEDBED PREPARATION. GRADE ALL DISTURBED AREAS TO DRAIN AS PONDING OF WATER WILL NOT BE ACCEPTABLE.
2.
- CONTRACTOR IS RESPONSIBLE FOR ALL TRENCH AND FILL SETTLEMENT FOR THE PROJECT'S ONE YEAR WARRANTY PERIOD. CONTRACTOR SHALL PROVIDE ADDITIONAL FILL MATERIAL AND IS RESPONSIBLE FOR RESEEDING OF ALL SETTLEMENT AREAS AFTER SITE RESTORATION HAS BEEN COMPLETED.

GRADING NOTES

1.
- MATCH EXISTING GRADES FOR ALL PAVEMENT REPLACEMENT AND OTHER AREAS DISTURBED BY CONSTRUCTION UNLESS OTHERWISE NOTED.
2.
- MAINTAIN POSITIVE DRAINAGE ON THE SITE THROUGHOUT THE PROJECT DURATION.
3.
- ALL EXCESS EXCAVATED SOIL AND GRANULAR MATERIAL SHALL BE PROPERLY DISPOSED OF OFF SITE BY CONTRACTOR.
4.
- KEEP ADJACENT STREETS FREE FROM SOIL AND DEBRIS GENERATED BY THE PROJECT. CLEAN SOIL AND DEBRIS FROM THE ADJACENT STREETS ON A DAILY BASIS.
5.
- DO NOT PLACE, SPREAD, OR COMPACT ANY FILL MATERIAL DURING UNFAVORABLE WEATHER CONDITIONS AND DO NOT RESUME COMPACTION OPERATIONS UNTIL MOISTURE CONTENT AND DENSITY OF IN-PLACE FILL MATERIAL ARE WITHIN SPECIFIED LIMITS.
6.
- MAINTAIN OPTIMUM MOISTURE CONTENT OF FILL MATERIALS TO ATTAIN REQUIRED COMPACTION DENSITY. PLACE FILL MATERIAL OF LOW PLASTICITY COHESIVE SOILS WITHIN -2% TO +3% OF OPTIMUM MOISTURE CONTENT. FOR GRANULAR MATERIAL, THE ACCEPTABLE RANGE IS -3% TO +3% OF OPTIMUM MOISTURE CONTENT.
7.
- PLACE SOIL FILL MATERIAL IN MAXIMUM 6" LOOSE LIFTS, COMPACTED TO 95% STANDARD PROCTOR DENSITY PER ASTM D698.
8.
- USE TYPE "A" COMPACTION ON SUBGRADE AND SUBBASE PER IOWA DOT STANDARD SPECIFICATIONS.
9.
- IN THE PAVING AREAS, SCARIFY AND RECOMPACT SUBGRADE TO 95% STANDARD PROCTOR DENSITY PER ASTM D698.
10.
- PLACE ANY GRANULAR MATERIAL BENEATH PAVING COMPACTED ACCORDING TO IOWA DOT SPECIFICATIONS.

UTILITY NOTES

1.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH IOWA SUDAS STANDARD SPECIFICATIONS UNLESS OTHERWISE NOTED ON THE DRAWINGS.
2.
- ALL OPEN EXCAVATIONS SHALL BE PROTECTED WITH SAFETY FENCE, BARRIERS OR BARRICADES IN ACCORDANCE WITH OSHA.

PAVEMENT GENERAL NOTES

1.
- ALL PROPOSED PAVEMENT PATCHES AND REPLACEMENT SHOWN ON PLANS ARE APPROXIMATE AND SHOULD BE CONSIDERED MINIMUM REMOVAL EXTENTS. EXTEND AND ADJUST PAVEMENT PATCHES AS REQUIRED BY CONSTRUCTION WITH PRIOR APPROVAL BY OWNER'S REPRESENTATIVE.
2.
- ALL SLOPES IN PAVEMENT SHALL BE UNIFORM TO AVOID PONDING. ANY PONDING ON PAVEMENT PATCHES OR ADJACENT TO PATCHES WILL BE CONSIDERED UNACCEPTABLE AND SHALL BE REPLACED. IT IS THE CONTRACTORS RESPONSIBILITY TO IDENTIFY AREAS OF POTENTIAL PONDING EVEN IF PROPOSED GRADES ARE SHOWN ON THE DRAWINGS.
3.
- SALVAGE ALL SIGNS WITHIN THE CONSTRUCTION LIMITS AND REINSTALL IN THE SAME LOCATION AND CONDITION AFTER CONSTRUCTION. ANY SIGNS OR POLES DAMAGED DURING THE COURSE OF WORK TO BE REMOVED AND REPLACED AT NO ADDITIONAL COST TO THE OWNER.
4.
- USE TYPE "A" COMPACTION, PER IOWA DOT STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, ON SUBGRADE AND SUBBASE.

SURFACE RESTORATION NOTES

1.
- ALL DISTURBED AREAS NOT PAVED ON THE SITE SHALL RECEIVE 6" TOPSOIL. SCARIFY AREAS TO RECEIVE TOPSOIL TO A MINIMUM DEPTH OF 4". REMOVE ALL STONES, WOOD AND OTHER DEBRIS LARGER THAN 2" FROM AREAS TO RECEIVE TOPSOIL. DO NOT COMPACT TOPSOIL.
2.
- ALL DISTURBED AREAS NOT PAVED ON THE SITE SHALL BE HYDRAULICALLY SEEDED.

CONTRACTOR STAGING

1.
- COORDINATE ALL REQUIRED STAGING AREAS WITH FACILITY AND OWNER'S REPRESENTATIVE.

SPECIFICATIONS

- THE MOST RECENT EDITION OF THE IOWA STATEWIDE URBAN DESIGN AND SPECIFICATIONS (SUDAS) SHALL APPLY TO ALL SITE WORK PERFORMED ON THIS PROJECT EXCEPT AS MODIFIED HEREIN.
- A. CONCRETE PAVING:  
CONCRETE: MATERIALS AND MIXING FOR ALL CONCRETE WORK, UNLESS OTHERWISE SPECIFIED, SHALL CONFORM TO IOWA DOT SPECIFICATIONS FOR AIR-ENTRAINED TYPE C-4 MIX WITH TYPE I CEMENT
- FLY ASH (CONTRACTOR'S OPTION AS ADDITIONAL PAYMENT WILL NOT BE PROVIDED IF FLY ASH IS NOT AVAILABLE) - ASTM C618, TYPE C, NOT TO EXCEED 15% OF CEMENTITIOUS MATERIAL.
- COARSE AGGREGATE DURABILITY SHALL BE CLASS III, 3/4" MAX.
- COMPRESSIVE STRENGTH 2800 PSI @ 7 DAYS AND 4000 PSI @ 28 DAYS
- SLUMP: 3" ± 1" or 8" MAXIMUM WITH SUPER PLASTICIZER.
- AIR CONTENT: 7.0% ± 1.0%
- WATER/CEMENT RATIO: NOT TO EXCEED 0.53
- FINISH: HEAVY BROOM FINISH
- TESTING - ONE SET OF TEST CYLINDERS REQUIRED FOR EACH 100 C.Y. OR PORTION THEREOF, OF CONCRETE POURED PER WORK LOCATION. CONCRETE TESTING TO BE DONE AND PAID FOR BY OWNER. CONTRACTOR SHALL COORDINATE AND SCHEDULE ALL REQUIRED TESTING AND GEOTECHNICAL WORK.
- SURFACE CURING: CONTRACTOR SHALL APPLY WHITE PIGMENT LIQUID CURING COMPOUND IN A FINE SPRAY TO FORM CONTINUOUS UNIFORM FILM AFTER FINISHING AND SURFACE MOISTURE HAS DISAPPEARED, OR WITHIN 30 MINUTES AFTER FORMS ARE REQUIRED.
- PROVIDE OWNERS REPRESENTATIVE WITH CONCRETE MIX DESIGN FOR APPROVAL.

- B. EXPANSION JOINT FILLER:  
CLOSED CELL POLYETHYLENE WITH STRIP-OFF CAP FOR SEALANT.
- C. JOINT SEALANTS:  
PAVING JOINTS SHALL BE SEALED FOLLOWING IOWA DOT SPECIFICATIONS. ALL JOINTS TO BE SEALED WITH NO BACKER ROD.
- D. REINFORCING STEEL:  
PAVING REINFORCEMENT SHALL BE ASTM A615 GRADE 60, AND SHALL HAVE A PROTECTIVE COATING OF EPOXY APPLIED BY ELECTROSTATIC SPRAY METHOD IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A775.
- E. DEMOLITION:  
REMOVE OBSTRUCTIONS TO PERMIT INSTALLATION OF NEW CONSTRUCTION. REMOVE AND DISPOSE OF OBSTRUCTIONS TO A MINIMUM DEPTH OF 12 INCHES BELOW EXPOSED SUBGRADE OR PROPOSED SUBGRADE ELEVATION, WHICHEVER IS LOWER. FILL DEPRESSIONS CAUSED BY DEMOLITION OPERATIONS WITH SATISFACTORY SOIL MATERIAL. PLACE FILL MATERIAL IN HORIZONTAL LAYERS NOT EXCEEDING A LOOSE DEPTH OF 8 INCHES, AND COMPACT EACH LAYER TO A DENSITY EQUAL TO ADJACENT ORIGINAL GROUND OR SPECIFIED FILL REQUIREMENTS.
- SAWCUT FULL DEPTH AND REMOVE EXISTING PAVEMENT AS SHOWN ON DRAWINGS AND REQUIRED FOR THE PROPOSED CONSTRUCTION AND DISPOSE OF OFFSITE.
- F. TRAFFIC AND PEDESTRIAN CONTROL:  
PROVIDE BARRICADES, FENCING, AND OTHER DEVICES TO KEEP UNAUTHORIZED PERSONNEL FROM PROJECT SITE. PROTECT THE CONCRETE PAVEMENT DURING INITIAL CURE, AND PROTECT OR DELINEATE THE WORK AREA AS DIRECTED BY THE OWNER.
- KEEP INTERFERENCE WITH TRAFFIC TO A MINIMUM. DO NOT BLOCK EXISTING SITE ROADWAYS UNLESS APPROVED BY OWNER.
- G. STORM WATER POLLUTION PREVENTION PLAN (SWPPP):  
THE PROJECT IS ANTICIPATED TO DISTURB LESS THAN ONE ACRE SO AN IOWA DNR NPDES GENERAL PERMIT NO. 2 SHOULD NOT BE REQUIRED.
- CONTRACTOR SHALL STILL COMPLY WITH APPLICABLE IOWA DNR, US EPA, AND LOCAL REGULATIONS DEALING WITH STORMWATER RUNOFF AND EROSION CONTROL. AT A MINIMUM, CONTRACTOR SHALL INSTALL ALL STORMWATER CONTROL STRUCTURES AS INDICATED ON THE DRAWINGS AND AS REQUIRED.
- H. PAVEMENT JOINTING:  
PROVIDE IDOT 'TYPE C' JOINTS AT A MAXIMUM SPACING OF 12 FEET FOR PAVEMENT AND SQUARE PANELS FOR SIDEWALKS OR AS SHOWN ON PLANS.
- PROVIDE IDOT 'TYPE DW' JOINTS AT END OF DAY PAVING.
- PROVIDE 'TYPE RD' JOINTS TO TIE INTO EXISTING PAVING.
- SAW CUTTING TO BE COMPLETED A MAXIMUM OF 24 HOURS FROM CONCRETE PLACEMENT. RANDOM CRACKING CAUSED BY DELAYED SAW CUTTING MAY REQUIRE REMOVAL AND REPLACEMENT.
- CONTRACTOR TO PROVIDE OWNERS REPRESENTATIVE WITH A POURING SEQUENCE AND JOINTING PLAN FOR APPROVAL PRIOR TO BEGINNING PAVING OPERATIONS. JOINT LOCATIONS SHOWN ON PLANS ARE APPROXIMATE ONLY AND SHALL BE ADJUSTED IN THE FIELD AND ON THE CONTRACTORS JOINTING PLAN TO MATCH EXISTING JOINT PATTERNS AND CONSTRUCTION SEQUENCING.
- I. PAVEMENT REINFORCING STEEL:  
PAVING REINFORCEMENT SHALL BE ASTM A615 GRADE 60 AND SHALL HAVE A PROTECTIVE COATING OF EPOXY APPLIED BY ELECTROSTATIC SPRAY METHOD IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A775.
- J. HYDRAULIC SEEDING  
ALL DISTURBED AREAS ON THE SITE NOT TO BE PAVED OR LANDSCAPED TO RECEIVE HYDRAULIC SEEDING. HYDRAULIC SEEDING MATERIALS AND INSTALLATION SHALL MEET SUDAS SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR PREPARING SEEDBED, APPLYING HYDRAULIC SEEDING, AND FIRST AND SECOND APPLICATIONS OF FERTILIZER.
- SEED MIXTURE: SUDAS TYPE 1 SEED MIXTURE (PERMANENT LAWN MIXTURE) OR APPROVED EQUAL.
- K. TOPSOIL  
STRIP, STOCKPILE, AND RESPREAD TOPSOIL IN ALL AREAS TO BE SEEDED. THE DEPTH OF TOPSOIL SHALL BE A MINIMUM OF 6" AFTER NATURAL SETTLEMENT AND SHALL CONFORM SMOOTHLY TO THE ADJACENT LINES, GRADES, AND ELEVATIONS. PROVIDE ADDITIONAL TOPSOIL AS REQUIRED.
- L. SUBDRAIN:  
MATERIAL TO BE DUAL WALL PERFORATED HDPE PIPE UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS. POROUS BACKFILL MATERIAL MEETING IOWA DOT SPECIFICATION 4131 FOR POROUS BACKFILL MATERIAL.
- M. RIVER ROCK:  
1.5" CLEAN RIVER ROCK FROM LOCAL SOURCES.
- N. WEED BARRIER:  
PROVIDE A PERMEABLE PREMIUM PROFESSIONAL LANDSCAPE FABRIC UNDER ALL ROCK MULCH AREAS. SUBMIT PRODUCT INFORMATION FOR APPROVAL.
- O. METAL EDGING
- PROVIDE 3/16" x 8" x 16" STEEL EDGING WITH BLACK HIGH PERFORMANCE PAINT FINISH. SUBMIT PRODUCT INFORMATION FOR APPROVAL.

TERRACE HILL GRAND AVENUE  
PUBLIC PARKING LOT WALL REPAIR

GENERAL NOTES  
AND LEGEND

C001

SHIVEHATTERY  
ARCHITECTURE+ENGINEERING

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WEST DES MOINES, IOWA 50266  
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IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES  
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C

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E

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CP1 CX

CP2 CX

CONTROL POINTS

CP-1: CP - CUT X  
NORTHING: 577320.7  
EASTING: 1599186  
ELEVATION: 122.061

CP-2: CP - CUT X  
NORTHING: 577322.7  
EASTING: 1599412  
ELEVATION: 123.279

CP-3: CP - CUT X  
NORTHING: 577178  
EASTING: 1599424  
ELEVATION: 131.06

TREE TO BE REMOVED BY  
OTHERS - STUMP TO BE  
ABANDONED IN PLACE  
PROTECT EXISTING  
STAIRS AND BRICK  
WALL (TYP)

REMOVE EXISTING  
BRICK WALL AND  
FOOTINGS  
BRICK EDGE  
REMOVE TOP OF  
EXISTING CMU RETAINING  
WALL AND GUARDRAIL  
REFER TO STRUCTURAL

V

SIDEWALK

STEPS

125

126

127

128

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N 00°03'59" E  
182.49'

SAWCUT FILL DEPTH  
AND REMOVE SIDEWALK

COMMUNICATION LINES TO BE  
RELOCATED BY UTILITY PROVIDER  
PRIOR TO CONSTRUCTION,  
COORDINATE AND ACCOMMODATE  
NEW UTILITIES AS REQUIRED

SAWCUT FULL DEPTH AND  
REMOVE EXISTING PCC PAVING  
AS REQUIRED BY CONSTRUCTION

CONTRACTOR MAY CLOSE  
WEST ACCESS DRIVE AS  
REQUIRED BY CONSTRUCTION

REMOVE EXISTING  
PCC CURB AND GUTTER

SAWCUT FULL DEPTH AND  
REMOVE EXISTING HMA PAVING  
AS REQUIRED BY CONSTRUCTION

ASPHALT

REMOVE EXISTING PIER.  
REFER TO STRUCTURAL

EXISTING ELECTRICAL SERVICE TO  
WALL MOUNTED LIGHT TO BE REMOVED  
AND REPLACED BY OWNER

LIGHT TO BE DISCONNECTED AND  
REMOVED BY OWNER, PROVIDE  
MINIMUM 72 HOUR NOTICE

PROTECT EXISTING  
RETAINING WALLS

CUT BACK AND REMOVE VEGETATION  
AND VINES AS REQUIRED,  
COORDINATE WITH OWNER (TYP)

OWNER: VILLAGE GREEN CO-OP, INC

GRAND AVENUE

OWNER: STATE OF IOWA

SAWCUT FULL DEPTH AND  
REMOVE EXISTING HMA PAVING  
AS REQUIRED BY CONSTRUCTION

SAWCUT FULL DEPTH AND  
REMOVE EXISTING PCC PAVING  
AS REQUIRED BY CONSTRUCTION

REMOVE EXISTING  
PCC CURB AND GUTTER

PROTECT EXISTING  
RETAINING WALL  
AND VINES (TYP)

N 89°58'50" E  
157.73'

FOREST DRIVE

S 02°45'50" W  
75.08'

S 02°45'50" W  
65.63'

FND 1/2" IRON ROD

CP3 CX

0 5 10 20  
SCALE IN FEET

SHIVE-HATTERY  
ARCHITECTURE+ENGINEERING

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WEST DES MOINES, IOWA 50266  
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TERRACE HILL GRAND AVENUE  
PUBLIC PARKING LOT WALL REPAIR

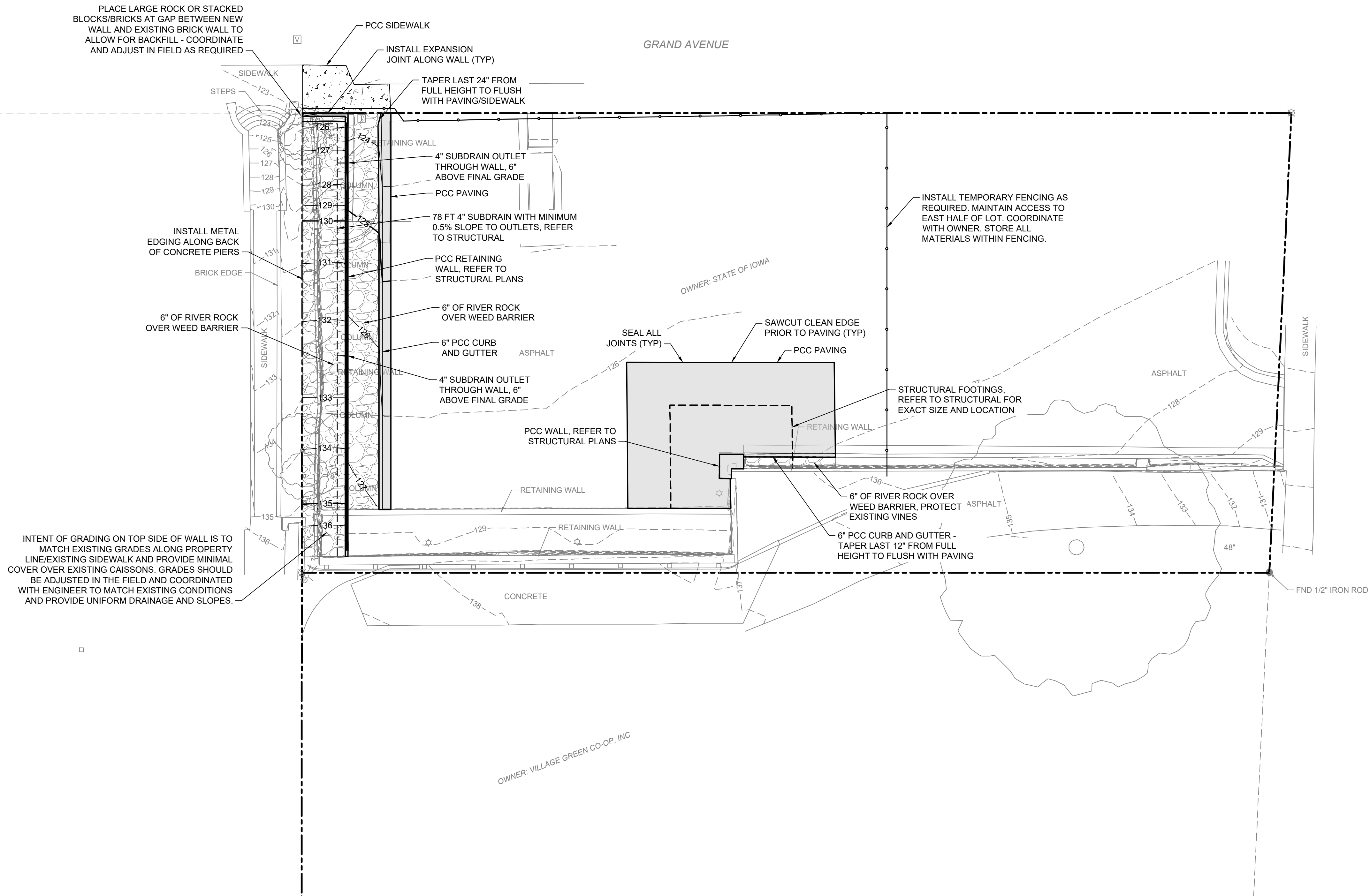
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DRAWN BY	KAL
APPROVED BY	CRB
ISSUED FOR	CONSTRUCTION
ISSUE DATE	07/15/2022
PROJECT NUMBER	214220240
FIELD BOOK	--

DEMOLITION  
PLAN

CD01

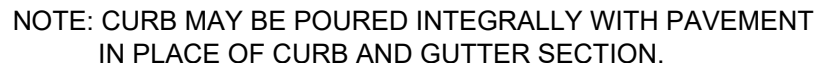
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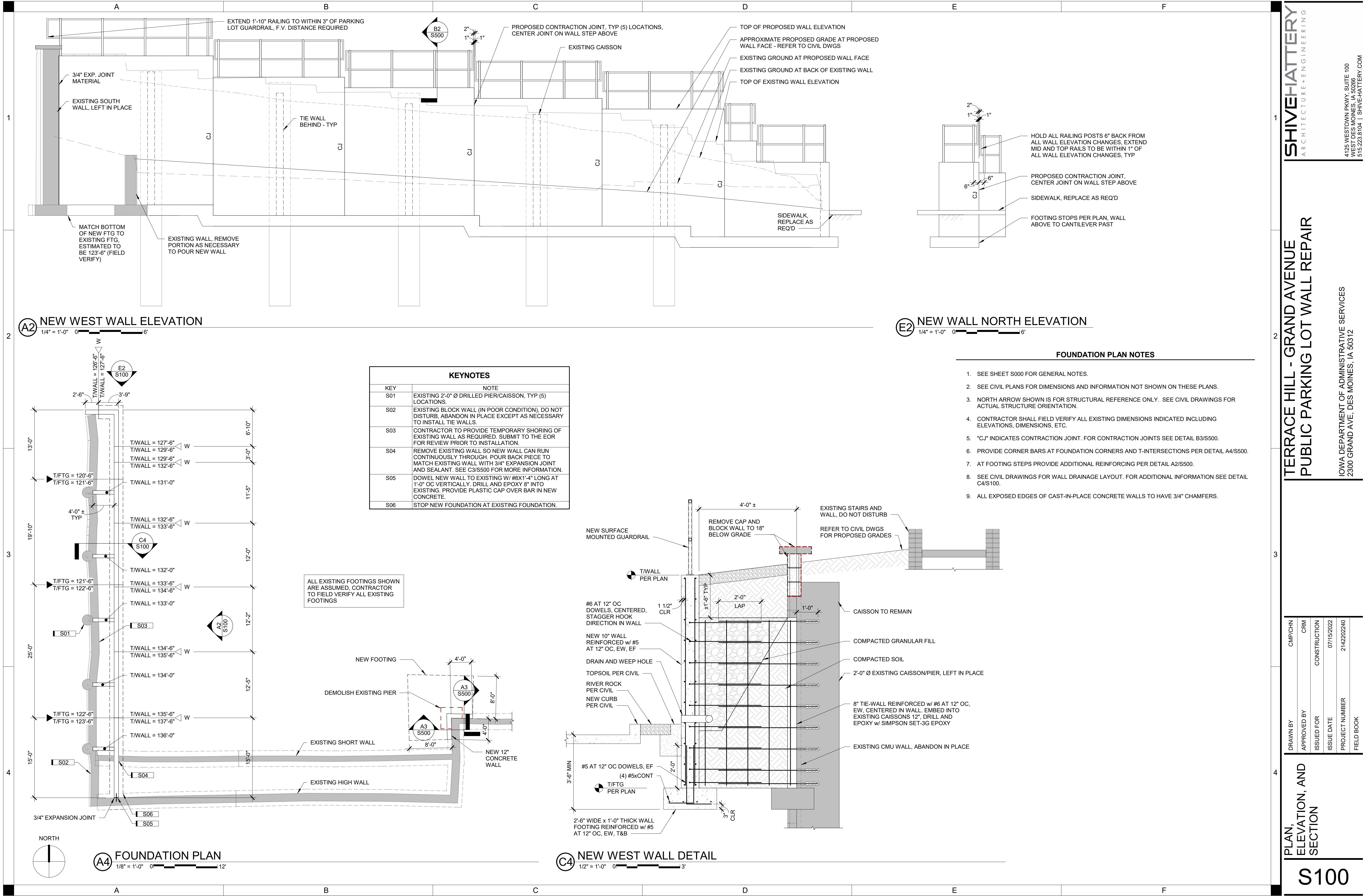
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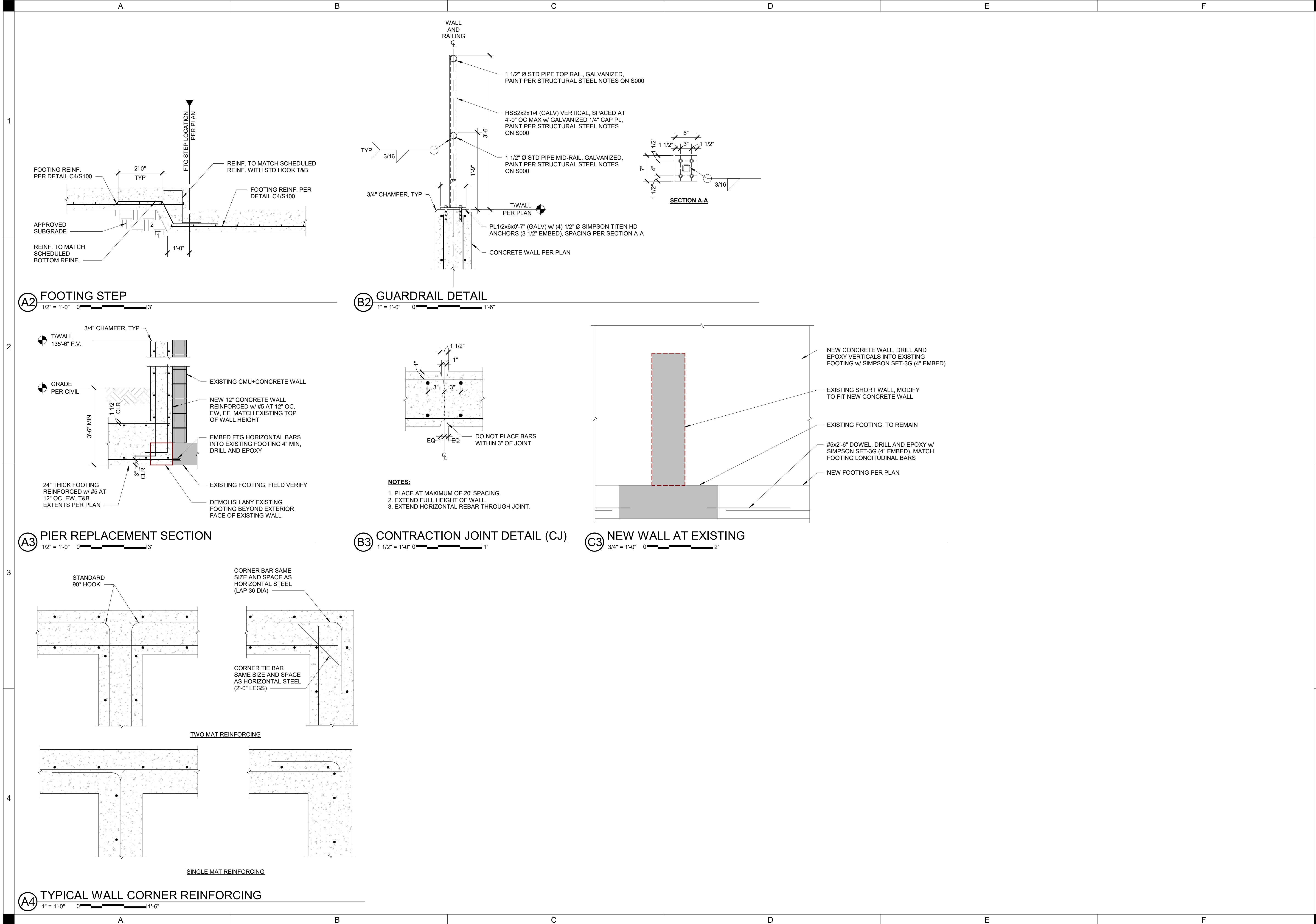
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DETAILS

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