

CONSTRUCTION PLANS FOR

2016

IMAGINART IN THE ALLEYS

ALLEY BETWEEN 10TH STREET AND 11TH STREET AND ALLEY BETWEEN 7TH AVENUE AND 8TH AVENUE CITY OF MARION, IOWA

THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT IOWA STATEWIDE URBAN DESIGN AND SPECIFICATIONS (SUDAS) FOR PUBLIC IMPROVEMENTS AND METRO STANDARDS FOR 'J' SHEETS.

CITY OF MARION CONTACTS
ENGINEERING DEPARTMENT
 ENGINEERING: (319) 743-6340
 PUBLIC SERVICE: (319) 377-6367

POLICE
 BUSINESS: (319) 377-1511
 EMERGENCY: 911

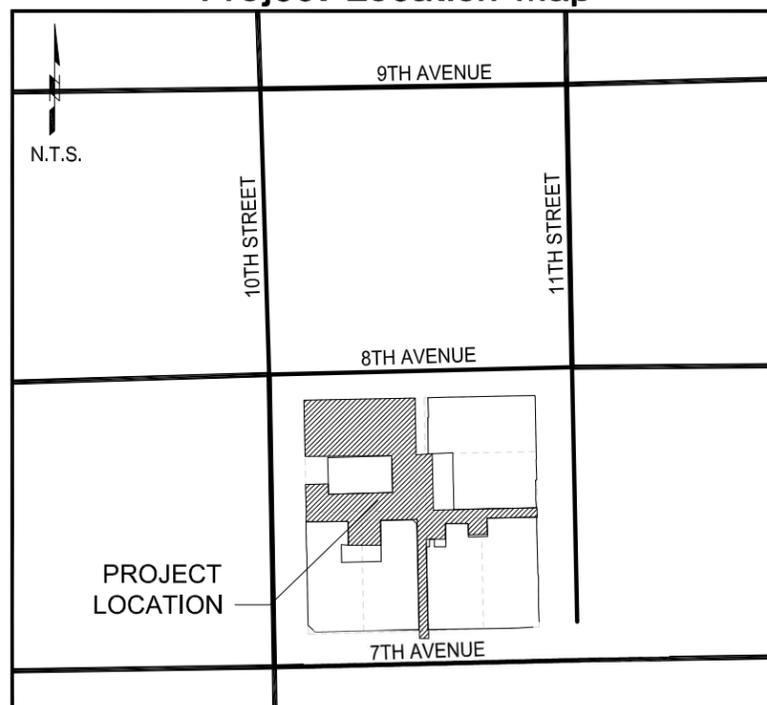
FIRE
 BUSINESS: (319) 377-8237
 EMERGENCY: 911

WATER DEPARTMENT
 (319) 743-6310

CITY OF MARION
 THIS ENGINEERING DOCUMENT IS APPROVED FOR CONSTRUCTION

CITY ENGINEER _____ DATE _____

Project Location Map



Index of Sheets

A.01	TITLE SHEET
A.02	LEGEND
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LANDSCAPE ARCHITECT

I HEREBY CERTIFY THAT THE PORTION OF THIS TECHNICAL SUBMISSION DESCRIBED BELOW WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND RESPONSIBLE CHARGE. I AM A DULY LICENSED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF IOWA.

KEITH J. BILICK
 Printed or typed name _____
 Signature *Keith J. Bilick* Date 11/20/2015

PAGES, SHEETS OR DIVISIONS COVERED BY THIS SEAL:
B.01-B.02, D.01-D.03, K.01-K.04

License Expires 06/30/2016

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.

COREY D. BOGENREIF
 22820

SIGNATURE: *Corey D. Bogenreif*
 NAME: COREY D. BOGENREIF
 DATE: 11/20/2015 License No. 22820

MY LICENSE RENEWAL DATE IS: DECEMBER 31, 2016

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MATTHEW K. GORDON
 19216

SIGNATURE: *Matthew K. Gordon*
 NAME: MATTHEW K. GORDON
 DATE: 11/20/2015 License No. 19216

MY LICENSE RENEWAL DATE IS: DECEMBER 31, 2016

PAGES, SHEETS OR DIVISIONS COVERED BY THIS SEAL:
E.01-E.08

Shive-Hattery Project Number: 214379-0



SHIVEHATTERY
 ARCHITECTURE + ENGINEERING

316 2nd Street SE Suite 500 | Cedar Rapids, Iowa 52406
 319.364.0227 | fax 319.364.4251 | shive-hattery.com

Iowa | Illinois | Missouri | Indiana

ISSUED FOR PRELIMINARY PLANS: FEBRUARY 20, 2015
 ISSUED FOR FINAL PLANS: OCTOBER 28, 2015
 ISSUED FOR BID: NOVEMBER 20, 2015

MEDIACOM
 JOE ERNSTER - 395-9699, X354
 6300 COUNCIL STREET NE
 CEDAR RAPIDS, IA 52402
 PHONE 319.395.9699 EXT. 3417
 FAX 319.393.7017

CENTURYLINK
 VAUGHN DOUGHERTY
 615 3RD AVENUE SE
 CEDAR RAPIDS, IA 52401
 PHONE: 319.399.7487
 MOBILE: 319.538.7215
 FAX: 319.399.7218

MIDAMERICAN ENERGY COMPANY
 GREG WILDEBOUR
 602 D AVENUE NW
 CEDAR RAPIDS, IA 52405-3822
 PHONE: 319.298.5162
 FAX: 319.298-5164

ALLIANT UTILITIES, INC.
 MICHELLE OLDENBURGER
 2330 12TH STREET SW #1
 CEDAR RAPIDS, IA 52404
 PHONE: 319.786.1919

WINDSTREAM
 STEPHAN KNESS
 1450 N. CENTERPOINT RD
 HIAWATHA, IA 52233
 PHONE: 319.790.7678
 FAX: 330.486.4061

MC/TELECOM*USA
 H.J. MCCLENNING
 500 2ND AVENUE SE
 CEDAR RAPIDS, IA 52401
 PHONE 319.366.6600 EXT. 1857

IMON COMMUNICATIONS, LLC
 TODD MINOR
 662 7TH AVENUE
 MARION, IA 52302
 PHONE: 319.261.4640

MARION WATER DEPARTMENT
 TODD STEIGERWALDT
 1225 6TH AVENUE, SUITE 150
 MARION, IA 52302
 PHONE: 319.743.6310

MARION ENGINEERING DEPARTMENT
 MIKE BARKALOW
 1225 6TH AVENUE, SUITE 200
 MARION, IA 52302
 PHONE: 319.743.6340
 MOBILE: 319.329.5234

MARION PUBLIC SERVICE
 195 35TH STREET
 MARION, IA 52302
 PHONE: 319.377.6367

LEGEND		
CONVENTIONAL SIGNS		
EXISTING PLAN MARK	DESCRIPTION	PROPOSED PLAN MARK
	CABLE LINE - OVERHEAD	
	CABLE LINE - UNDERGROUND	
	ELECTRIC LINE - OVERHEAD	
	ELECTRICAL LINE - UNDERGROUND	
	GAS MAIN	
	SANITARY SEWER (<8" DIA)	
	SANITARY SEWER (>8" DIA)	
	STEAM	
	STORM SEWER (<8" DIA)	
	STORM SEWER (>8" DIA)	
	SUBDRAIN	
	OVERHEAD TELEPHONE	
	FIBER OPTICS	
	UNDERGROUND TELEPHONE	
	WATER MAIN	

LEGEND		
GENERAL SITE		
EXISTING PLAN MARK	DESCRIPTION	PROPOSED PLAN MARK
	EXISTING STRUCTURE	
	GUARD POST/ BOLLARD	
	MAILBOX	
	PARKING METER	
	HANDICAPPED PARKING	
	SHRUB	
	DECIDUOUS TREE	
	CONIFEROUS TREE	
	SINGLE POLE SIGN	
	DOUBLE POLE SIGN	
	TRAFFIC SIGNAL	
	BRIDGE	
	WIRE FENCE	
	WOOD FENCE	
	CHAINLINK FENCE	
	RAILROAD	
	GUARD RAIL	
	TREE LINE	
	MINOR CONTOUR	
	MAJOR CONTOUR	

LEGEND		
UTILITIES		
EXISTING PLAN MARK	DESCRIPTION	PROPOSED PLAN MARK
	WATER IRRIGATION VALVE	
	UTILITY POLE W/TTRANSFORMER	
	WATER SHUTOFF VALVE	
	GUY ANCHOR	
	FIRE HYDRANT	
	FLARED END SECTION	
	UTILITY END CAP	
	VALVE	
	POST INDICATOR VALVE	
	CABLE TV PEDESTAL	
	CLEANOUT	
	JUNCTION BOX	
	MANHOLE	
	STORM MANHOLE	
	ELECTRICAL MANHOLE	
	SANITARY MANHOLE	
	TELEPHONE MANHOLE	
	TELEPHONE PEDESTAL	
	VAULT BOX	
	WELL	
	WATER MANHOLE	
	HANDHOLE	
	SIGNAL BOX	
	GAS METER	
	ELECTRIC METER	
	TRANSFORMER	
	WATER METER	
	AIR CONDITIONER	
	CURB INLET	
	INTAKE - CIRCLE	
	INTAKE - RECTANGLE	
	INTAKE - SQUARE	
	RA-3 INTAKE	
	RA-5 INTAKE	

GENERAL PROJECT NOTES

CONSTRUCTION SCHEDULE

PROJECT SHALL HAVE A COMPLETION DATE OF OCTOBER 28, 2016. LIQUIDATED DAMAGES IN THE AMOUNT OF \$1,500.00 PER DAY WILL BE ASSESSED FOR EACH CALENDAR DAY IN EXCESS OF THIS SCHEDULE.

ACCESS AND CONSTRUCTION LIMITS

ALL ACTIVITIES INCLUDING MATERIAL AND EQUIPMENT STORAGE MUST BE MAINTAINED WITHIN THE DEFINED CONSTRUCTION AREAS. DAMAGE TO SIDEWALKS AND PRIVATE PROPERTY SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. USE OF PRIVATE PROPERTIES SHALL BE ONLY WITH THE WRITTEN PERMISSION OF THE PROPERTY OWNER.



CONTRACTOR VEHICLE PARKING

THE WESTERLY 1/3 OF THE FIRST PRESBYTERIAN CHURCH PARKING LOT LOCATED AT 889 11TH STREET SHALL BE USED AS VEHICLE PARKING FOR WORKERS. WHEN PARKING AT THIS LOCATION IS UNAVAILABLE, CONTRACTOR PARKING SHALL BE NORTH OF 8TH AVENUE OR SOUTH OF 7TH AVENUE TO MINIMIZE IMPACTS TO ADJACENT BUSINESSES. ANY CHANGES TO CONTRACTOR VEHICLE PARKING WILL BE DISCUSSED AT THE PRECONSTRUCTION MEETING. SEE SPECIAL PROVISIONS FOR TEMPORARY PARKING EASEMENT AGREEMENT.

NOTIFICATIONS

THE CONTRACTOR SHALL PROVIDE WRITTEN NOTIFICATION TO THE CITY AND ALL PROPERTIES WITHIN THE CONSTRUCTION CLOSURE AREA IN WRITING AT LEAST 7 CALENDAR DAYS IN ADVANCE OF ACCESS AND ROAD RESTRICTIONS.

DISPOSAL OF WASTE MATERIAL

THE CONTRACTOR SHALL BE RESPONSIBLE FOR OFFSITE DISPOSAL OF ALL MATERIAL NOT TO BE INCORPORATED INTO THE PROJECT. DISPOSAL SHALL BE IN ACCORDANCE WILL ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.

PROTECTION OF WORK

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF THE WORK SITE TO INSURE SAFETY OF THE PUBLIC AND TO PREVENT DAMAGE TO THE WORK. FENCING, BARRICADES, SIGNING AND TRAFFIC CONTROL SHALL BE PROVIDED AND MAINTAINED BY THE CONTRACTOR. CARE SHALL BE EXERCISED WHEN WORKING AROUND TREES THAT ARE NOT TO BE REMOVED TO AVOID UNNECESSARY DAMAGE TO ROOT SYSTEMS. THE CONTRACTOR SHALL PROTECT ANY PROPERTY PINS ENCOUNTERED. IF DISTURBED, THEY SHALL BE RESET BY A LICENSED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE. ALL FIXTURES AND TREES NOT SPECIFICALLY NOTED TO BE REMOVED SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION. TREE BRANCHES WHICH INTERFERE WITH CONSTRUCTION ACTIVITY MAYBE NEATLY TRIMMED AS NECESSARY WITH ENGINEER'S APPROVAL. DAMAGE TO EXISTING HMA PAVEMENT DUE TO REMOVALS SHALL BE REPAIRED WITH AN APPROVED HOT MIX ASPHALT AT THE CONTRACTOR'S EXPENSE.

TRAFFIC CONTROL

THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN FOR APPROVAL PRIOR COMMENCEMENT OF WORK. ADDITIONAL SIGNAGE WHICH MAY BE NECESSARY DURING THE COURSE OF WORK DUE TO TRAFFIC CONDITIONS SHALL BE PROVIDED AT THE CONTRACTOR'S COST.

UTILITIES

THE LOCATIONS OF ALL UTILITIES SHOWN ON THE PLANS ARE TAKEN FROM THE EXISTING PUBLIC RECORDS, AND AS SUCH, ARE NOT GUARANTEED. THE EXACT LOCATION, SIZE, AND ELEVATION OF ALL UTILITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ASCERTAIN WHETHER ANY ADDITIONAL FACILITIES OTHER THAN THOSE SHOWN ON THE PLAN MAY BE PRESENT AND TO PROTECT ALL UTILITIES. LOCATION REQUESTS CAN BE MADE BY CALLING 1-800-292-8989.

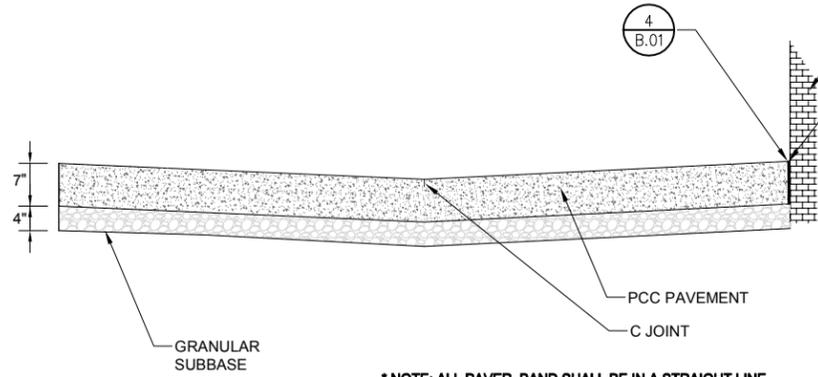
LEGEND	
RIGHT-OF-WAY	
PLAN MARK	DESCRIPTION
	PROPOSED RIGHT-OF-WAY
	EXISTING RIGHT-OF-WAY
	EXISTING PROPERTY LINE
	EXISTING EASEMENT
	TEMPORARY EASMENT
	PROPOSED EASEMENT

LEGEND	
SURVEY	
PLAN MARK	DESCRIPTION
	CONTROL POINT
	SPOT ELEVATION
	IRON ROD - FOUND
	IRON ROD - SET
	PROPERTY CORNER
	X CUT FOUND
	X CUT SET

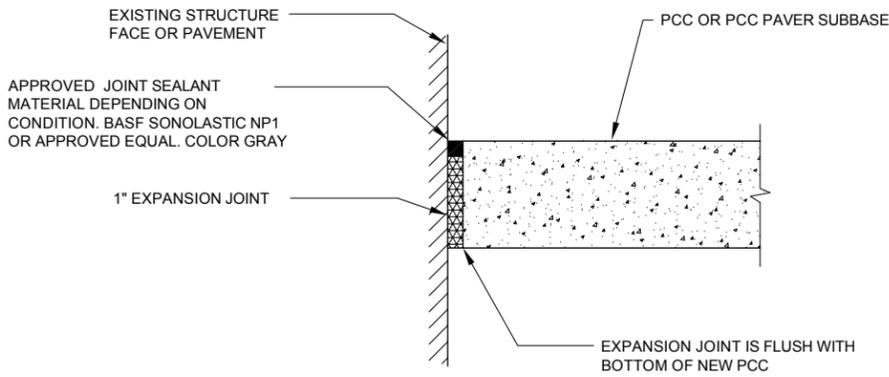
LEGEND	
EROSION CONTROL AND DEMOLITION	
PLAN MARK	DESCRIPTION
	SEDIMENT CONTROL DEVICE
	SILT FENCE
	INTAKE SEDIMENT CONTROL

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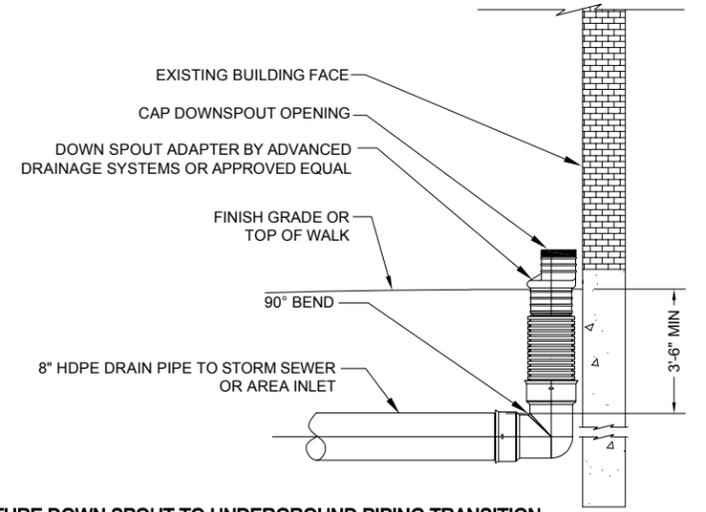
ADDENDUM 1		
NO.	REVISION DESCRIPTION	DATE



1 TYPICAL PAVEMENT SECTION

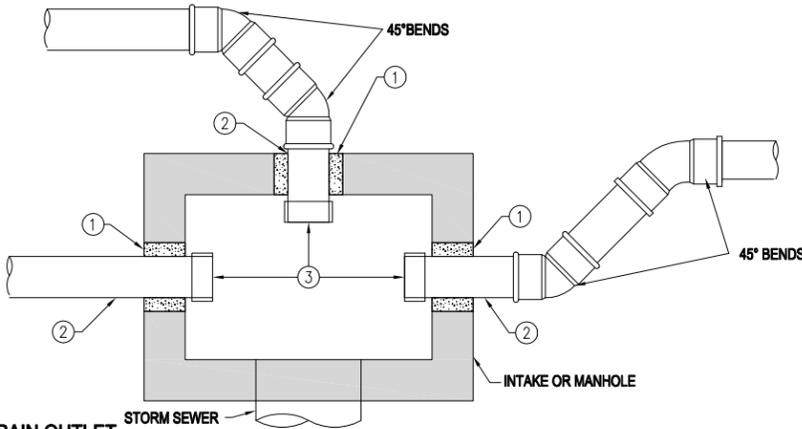


4 TYPICAL EXPANSION JOINT

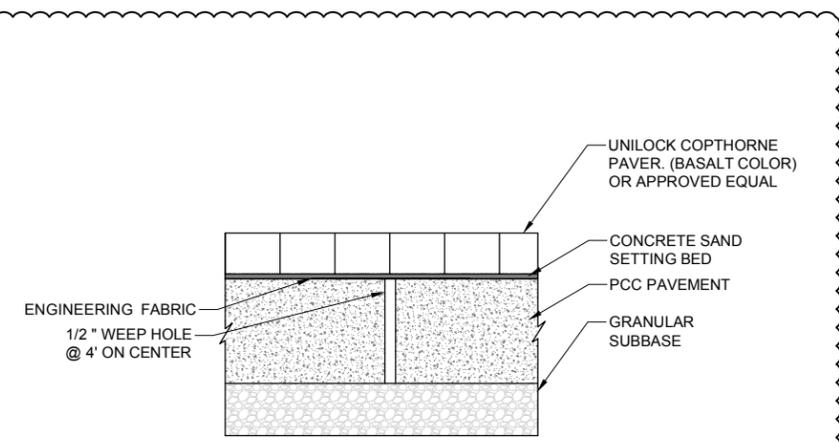


7 FUTURE DOWN SPOUT TO UNDERGROUND PIPING TRANSITION

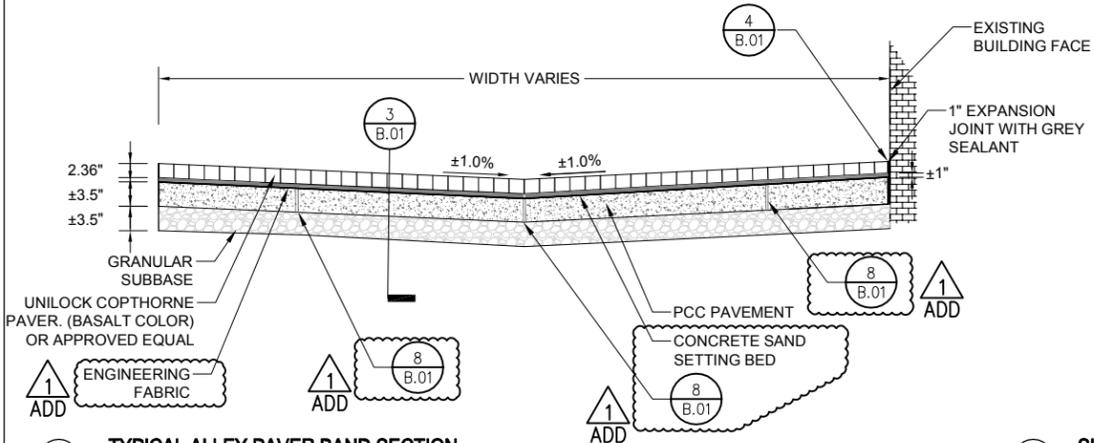
- 1 FILL ANNULAR SPACE WITH NON-SHRINK GROUT.
- 2 OUTLETS THROUGH INTAKE WALLS TO BE CMP; CORRUGATED, DOUBLE-WALLED HDPE; OR PVC.
- 3 EXTEND OUTLET PIPE INTO STRUCTURE AS REQUIRED TO INSTALL REMOVABLE RODENT GUARD GRATE. RODENT GUARD GRATES COMPLYING WITH IOWA DOT MATERIALS I.M. 443.01 ARE REQUIRED FOR PIPES 6 INCHES AND SMALLER.



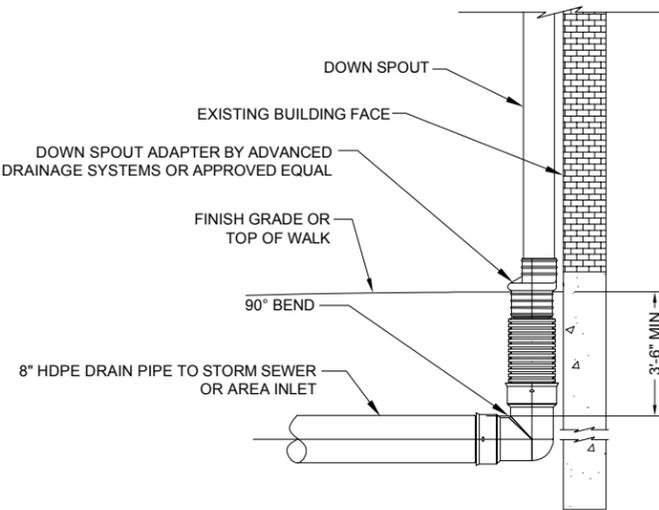
5 SUBDRAIN OUTLET



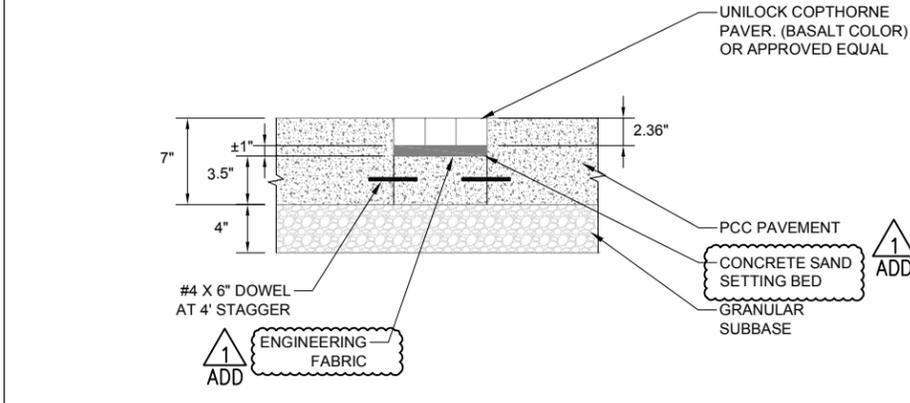
8 WEEP HOLE DETAIL



2 TYPICAL ALLEY PAVER BAND SECTION



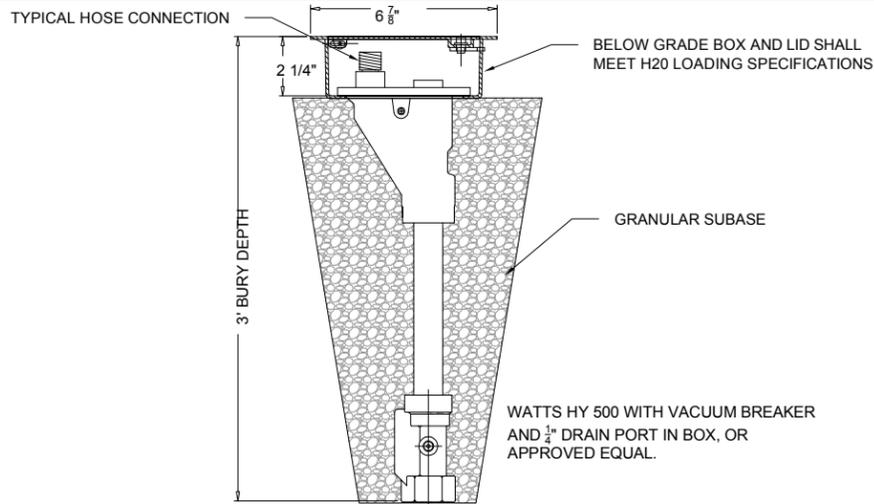
6 DOWN SPOUT TO UNDERGROUND PIPING TRANSITION



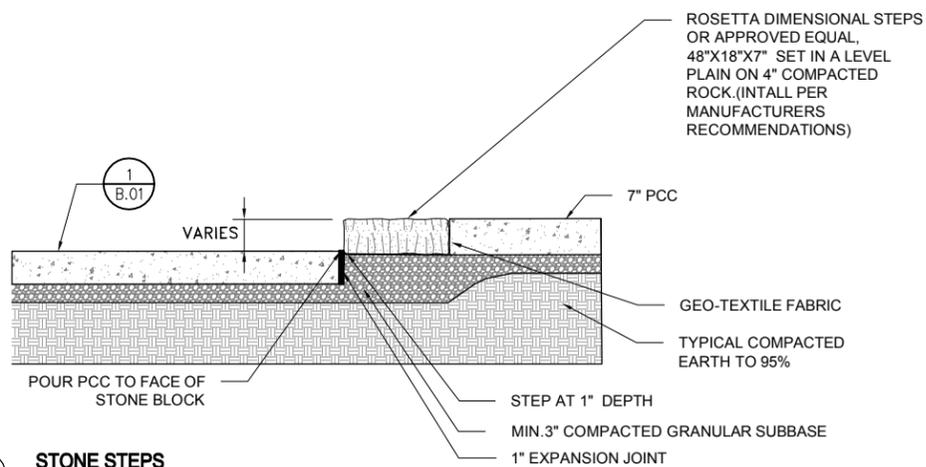
3 TYPICAL ALLEY PAVER BAND SECTION

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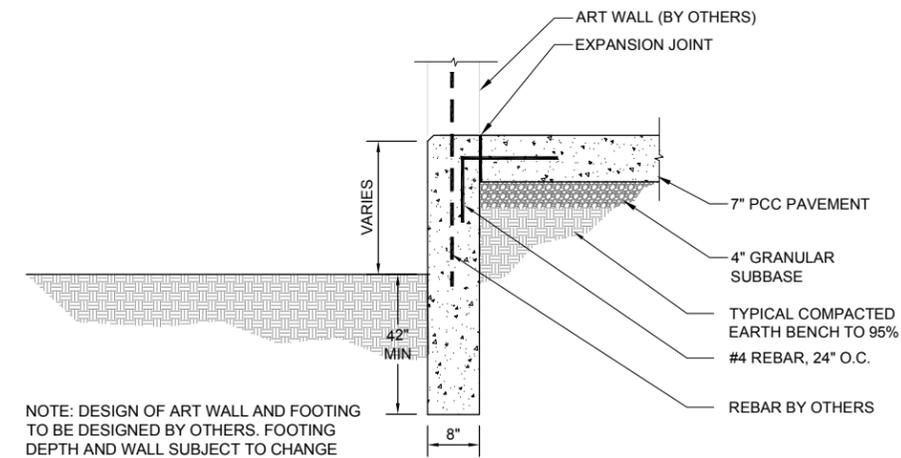
ADDENDUM 1		CBD	12.16.15
NO.	REVISION DESCRIPTION	APPROVED	DATE



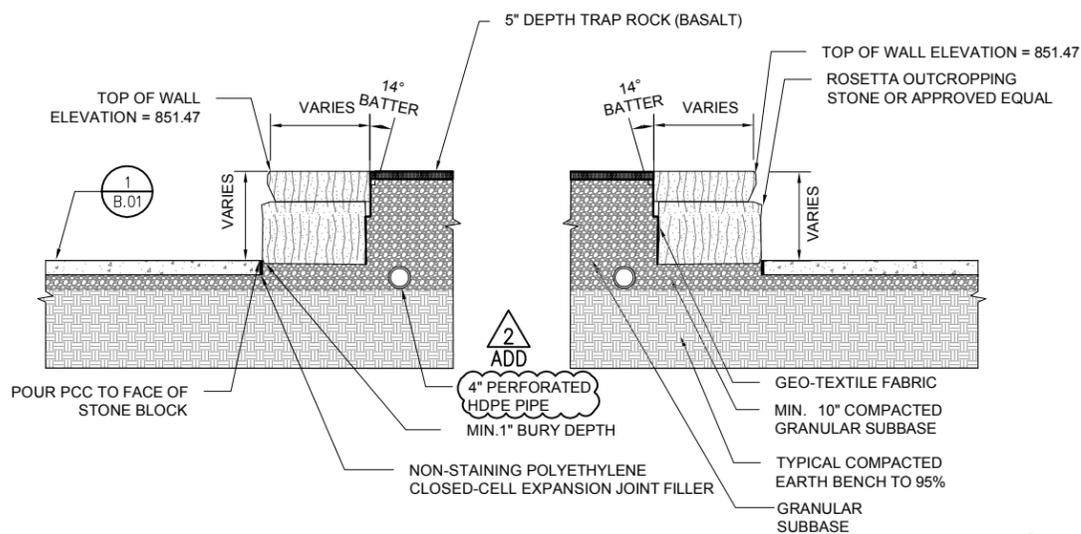
1 NON-FREEZE DECK HYDRANT WITH BOX
NO SCALE



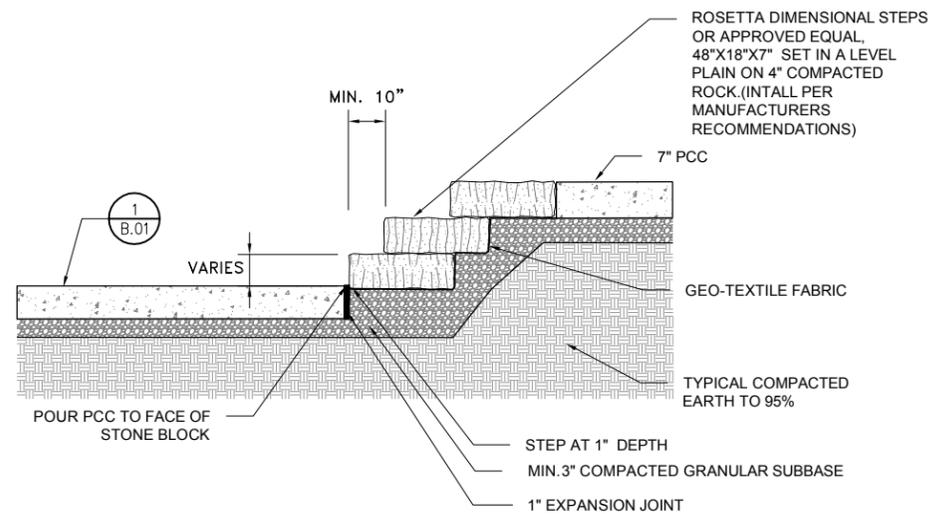
4 STONE STEPS
NO SCALE



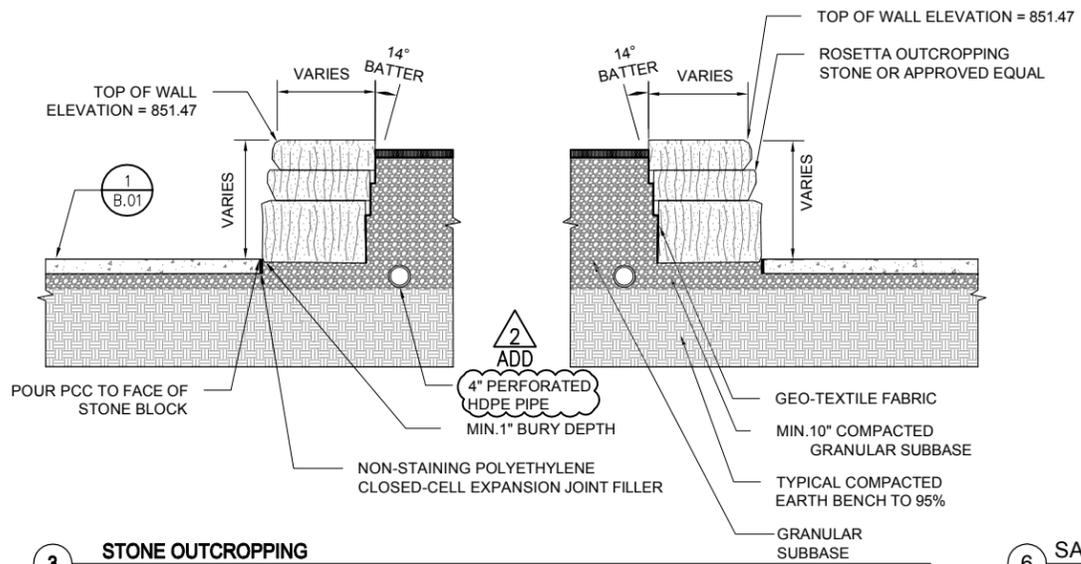
7 ARTWORK D - WALL AND FOOTING DETAIL
NOT TO SCALE



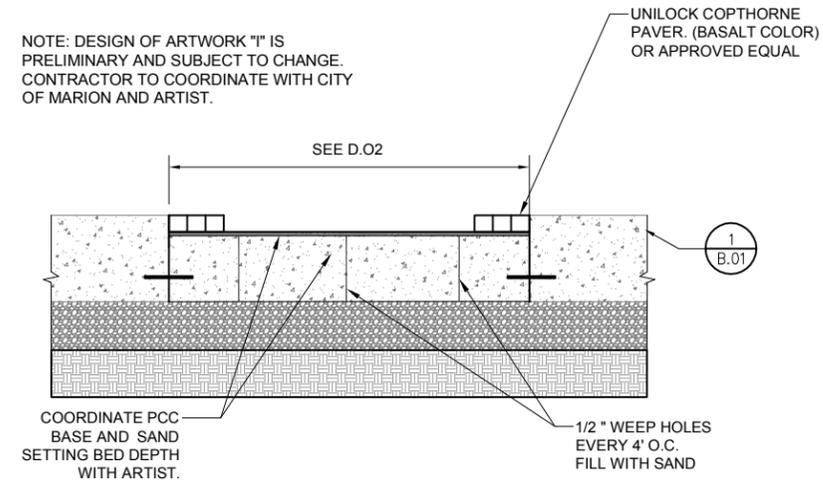
2 STONE OUTCROPPING
NO SCALE



5 STONE STEPS
NO SCALE



3 STONE OUTCROPPING
NO SCALE

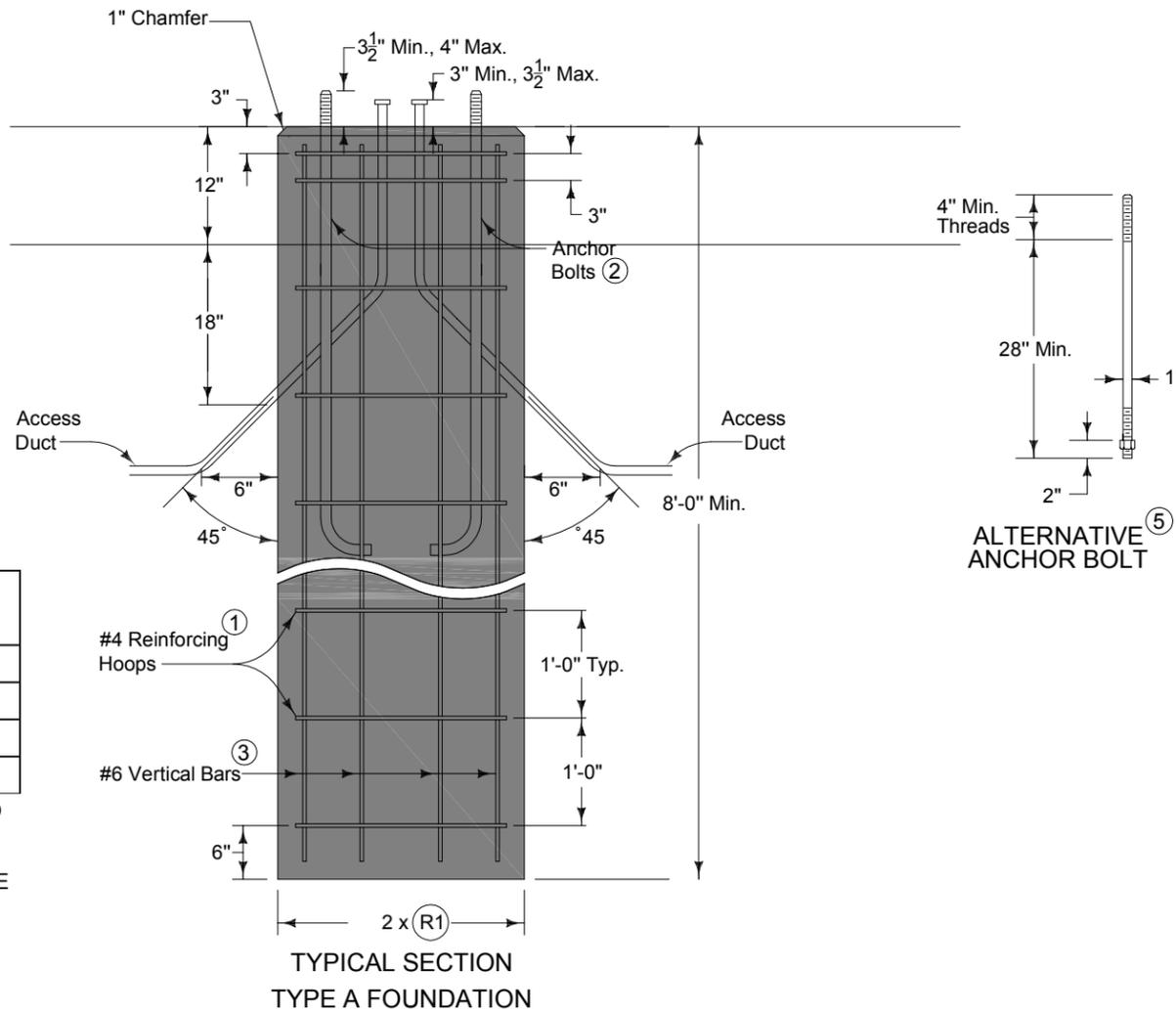
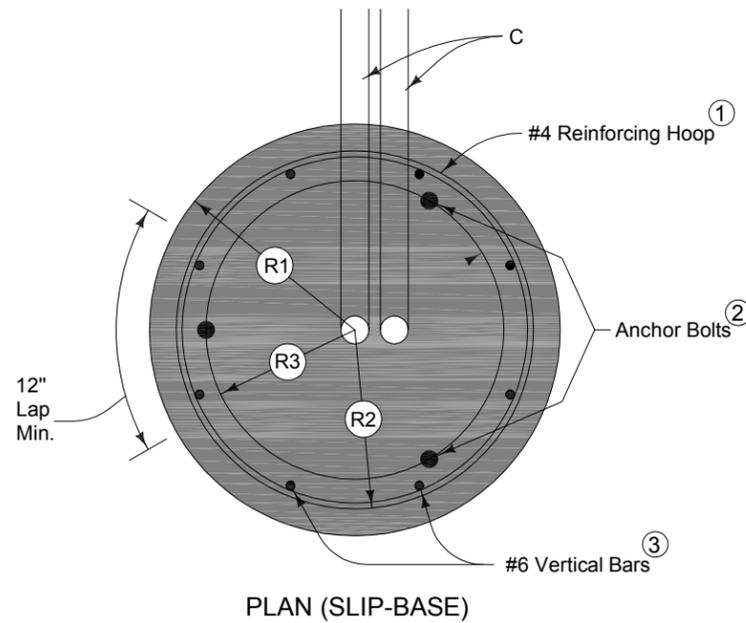


6 SAND SETTING BED DETAIL
NOT TO SCALE

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ADDENDUM 2		CBD	12.18.15
NO.	REVISION DESCRIPTION	APPROVED	DATE

- (R1) = Radius of foundation. Minimum 13.5" and minimum of 2" greater than R2.
- (R2) = Radius of the reinforcing hoop. Minimum of 1" greater than R3.
- (R3) = Radius of the anchor bolt circle.



ARTWORK	NUMBER OF FOOTINGS	R1 (IN)
A	7	15"
B	1	24"
C	3	12"
E	1	18"

FOOTING SIZES ARE PRELIMINARY AND SUBJECT TO CHANGE. FINAL DESIGN OF FOOTING WILL BE PROVIDED BY OTHERS PRIOR TO CONSTRUCTION. SHIVE-HATTERY BARES NO RESPONSIBILITY FOR THE FINAL DESIGN OF THE ARTWORK FOOTING. SEE TABULATION ON C.02 AND ESTIMATE REFERENCE NOTES ON C.01

The Type A Foundation is the normally required foundation construction. Where rock, shale, sandstone, broken or shattered rock, or other similar material is encountered, the Engineer may approve the use of the Type B Foundation. Dispose of all excavations in the area adjacent to the foundation and shape to the natural contour unless directed otherwise by the Engineer.

Minimum diameter of foundation is determined by the Anchor Bolt Circle required for the diameter of the pole being installed. Where dimensional requirements indicated cannot be met with normal foundations, enlarge the foundation as necessary to accommodate the required diameter at no additional cost to the Contracting Authority.

Provide minimum 2" clear for all reinforcement.

Cap open ends of conduit during construction to prevent infiltration of foreign material. After the cable is installed, seal the upper end of the ducts against entry of moisture by a method approved by the Engineer.

For access ducts, use a 2" nominal inside diameter duct.

- ① #4 bars lapped a minimum of 12" as indicated. Hoops may be welded to vertical bars.
- ② Use full length galvanized anchor bolts; three for Slip-Base. Refer to the manufacturer's requirements for anchor bolt dimensions. Obtain a template from the light pole manufacturer for anchor bolt placement. Do not weld anchor bolts.
- ③ Place 8 bars spaced equally. Use #7 bars when the mounting height is greater than 44 feet.
- ④ Foundation base may be thickened and pedestal omitted at the Contractor's option.
- ⑤ If depth from finished ground line to bottom of foundation is less than 48", Alternative Anchor Bolt may be used.

MODIFIED STANDARD ROAD PLAN	REVISION	
	1	04-19-16
	LI-201	
SHEET 1 of 1		
REVISIONS: Removed last paragraph in general notes referring to precast foundations now covered in Article 2523.03, G of the Standard Specifications.		
APPROVED BY DESIGN METHODS ENGINEER		
LIGHT POLE FOUNDATION		

① ARTWORK - PRELIMINARY FOOTING DETAIL
NO SCALE

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NO.	REVISION DESCRIPTION	APPROVED	DATE

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ESTIMATED BASE BIDE PROJECT QUANTITIES

DIVISION	ITEM NO.	ITEM	UNIT	QUANTITY	AS-BUILT
1- GENERAL	1.01	MOBILIZATION	LS	1	
	1.02	CONSTRUCTION SURVEY	LS	1	
	1.03	TRAFFIC CONTROL	LS	1	
2 - EARTHWORK	2.01	EXCAVATION, CLASS 12	CY	150	
	2.02	SUBGRADE PREPARATION	SY	1,123	
	2.03	GRANULAR SUBBASE, DOT GRAD 12A, 4"	SY	1,055	
	2.04	GRANULAR 3/8" CLEAN	CY	25	
	2.05	GRANULAR SURFACING	TON	50	
	2.06	COMPACTION TESTING	LS	1	
4 - SEWER AND DRAINS	4.01	REMOVAL OF SUBDRAIN	EA	4	
	4.02	SUBDRAIN, NONPERFORATED, 8"	LF	233	
	4.03	SUBDRAIN, PERFORATED, 4"	LF	118	
6 - STRUCTURES FOR STORM SEWERS	6.01	REMOVAL OF STORM STRUCTURE	EA	2	
	6.02	MANHOLE, SW-401, 48"	EA	1	
	6.03	INTAKE, SW-501 MOD, SINGLE GRATE	EA	2	
7 - STREETS AND RELATED WORK	7.01	REMOVAL OF EXISTING PAVEMENT	SY	1,206	
	7.02	REMOVAL OF EXISTING PAVEMENT MARKINGS	LS	1	
	7.03	PAVEMENT, PCC, 7"	SY	770	
	7.04	PAVEMENT, PCC, 6"	SY	215	
	7.05	SIDEWALK, PCC, 4"	SY	71	
	7.06	PAVEMENT MARKINGS, PAINTED	STA	4.75	
9 - SITE WORK AND LANDSCAPING	9.01	FILTER SOCKS, 6"	LF	400	
	9.02	FILTER SOCKS, REMOVAL	LF	400	
	9.03	IRRIGATION SYSTEM	LS	1	
	9.04	ELECTRICAL SYSTEM	LS	1	
	9.05	PEDESTRIAN LIGHT POLE	EA	3	
	9.06	2" HDPE CONDUIT	LF	200	
	9.07	FIBER HANDHOLE	EA	2	
	9.08	1" HDPE CONDUIT, INSTALL ONLY	LF	2,689	
	9.09	ROSETTA OUTCROPPING RETAINING WALL	SF	333	
	9.10	ROSETTA DIMENSIONAL STEPS, 48"x18"x7"	EA	18	
	9.11	TRAP ROCK, 5"	SF	535	
	9.12	REMOVAL OF PCC RETAINING WALL AND RAILING	LS	1	
	9.13	PCC PAVER, RUNNING BOND, SAND SETTING BED	SF	242	
9.14	SOD	SF	250		
9.15	ARTWORK A - FOOTING	LS	1		
9.16	ARTWORK B - FOOTING	LS	1		
9.17	ARTWORK C - FOOTING	LS	1		
9.18	ARTWORK D - FOOTING	LS	1		
9.19	ARTWORK E - FOOTING	LS	1		
9.20	ARTWORK F - COORDINATION	LS	1		
9.21	ARTWORK G - COORDINATION	LS	1		
9.22	ARTWORK H - COORDINATION	LS	1		
9.23	ARTWORK I - COORDINATION	LS	1		

2 ADD

2 ADD

1 ADD

2 ADD

1 ADD

ALTERNATE BID QUANTITIES

ITEM NO.	ITEM	UNIT	QUANTITY	AS-BUILT
9.04a	ELECTRICAL SYSTEM	LS	1	
9.05a	PEDESTRIAN LIGHT POLE	EA	3	

ESTIMATE REFERENCE NOTES	
Data listed belows for informational purposes only and shall not constitute a basis for any extra work orders.	
ITEM NO.	DESCRIPTION
1.01	<p>MOBILIZATION</p> <p>A. Includes project management of staged construction using appropriately sized equipment during project construction. Be aware of space limitations.</p> <p>B. Contractor shall coordinate with adjacent property owners and utility companies as shown in the contract documents. Utility coordination shall be incidental to this item.</p> <p>C. Contractor shall participate in weekly onsite meetings with the Engineer.</p> <p>D. Concrete washout dumpster shall be maintained throughout the duration of the project. Concrete washout shall be disposed of at the end of the project.</p> <p>E. Contractor shall be responsible to control dust on the site and watering shall be included in this item as needed or directed by the Engineer.</p> <p>F. Contractor shall notify all property owners / business owners by email / phone 1 week prior to starting work and shall provide monthly updates as the construction progresses. A list of property owners / business owners is included in the special provision. See Property Owner & Business Owner Contact Information at the end of the project manual.</p> <p>G. Contractor shall coordinate with the adjacent property owners for garbage pickup. This shall be considered incidental to this item.</p> <p>H. Contractor shall provide access to the extent practical for fire protection from the north-south alley. This shall be considered incidental to this item.</p> <p>I. Contractor shall not work on weekends when a City authorized event is scheduled in the park. This includes but is not limited to the Swamp Fox, Marion Bar - B. Que Rendezvous, Marion Arts Festival, Marion Rotary Marathon, etc. Coordination of these events shall be incidental to this item.</p> <p>J. Contractor at their discretion may request to review current condition of neighboring private buildings, if owner is willing, to reduce risk to the contractor of damage claims. Contractor is responsible for means and methods of construction and the City and Engineer shall not be held liable for damage caused by the Contractor. This review shall take place after the preconstruction meeting but prior to work starting. This shall be considered incidental to this item.</p> <p>K. Contractor shall provide 1 week of time for utilities to complete relocations. Timing of relocations shall be determined during the preconstruction conference.</p> <p>L. Contractor shall use parking area across 11th Street in alley as shown on L01 for staging and equipment storage. The contractor shall be responsible for any damage done to this area including but not limited to repainting of parking stalls. Staging area excludes handicap parking stalls.</p> <p>M. The westerly 1/3 of the First Presbyterian Church parking lot located at 899 11th Street shall be used as vehicle parking for workers. When parking at this location is unavailable, contractor parking shall be north of 8th Avenue or south of 7th Avenue to minimize impacts to adjacent businesses. any changes to contractor vehicle parking will be discussed at the preconstruction meeting. See Special Provisions for Temporary Parking Easement Agreement.</p> <p>N. Substantial completion date: October 28, 2016.</p>
1.02	<p>CONSTRUCTION SURVEY</p> <p>A. See 'J' sheets.</p>
1.03	<p>TRAFFIC CONTROL</p> <p>A. See 'J' sheets.</p> <p>B. Contractor shall close alley as show in the staging plans. Property owners shall have access to property throughout construction.</p> <p>C. It shall be the contractor's responsibility to use orange construction fencing to close the site to pedestrian traffic. This work shall be included in the traffic control item and with no additional compensation for this work.</p> <p>D. Sidewalk closures shall use 1200-061 in Cedar Rapids Metro Standards.</p>

1 ADD

ESTIMATE REFERENCE NOTES

ESTIMATE REFERENCE NOTES	
Data listed belows for informational purposes only and shall not constitute a basis for any extra work orders.	
ITEM NO.	DESCRIPTION
2.01	<p>EXCAVATION, CLASS 12</p> <p>A. Raw Cut Volume = 150 CY. Fill Volume = 25 CY (30% shrinkage factor). Waste = 125 CY</p> <p>B. All waste material shall become the property of the contractor and shall be removed from the site.</p> <p>C. Quantity does not include trenches or footing spoils.</p>
2.02	<p>SUBGRADE PREPARATION</p> <p>A. Subgrade compaction shall be 6" deep. Compaction near buildings shall be as directed by the Engineer.</p>
2.03	<p>GRANULAR SUBBASE, DOT GRAD 12A, 4"</p> <p>A. Granular subbase for areas under PCC pavement, lower rock blanket in walls, and walks.</p>
2.04	<p>GRANULAR 3/8" CLEAN</p> <p>A. Shall be used as drainable, fill material behind retaining wall.</p> <p>B. See Detail on 'B' Sheets.</p> <p>C. See Location on 'D' and 'K' Sheets.</p>
2.05	<p>GRANULAR SURFACING</p> <p>A. Granular material shall be used during construction to provide a temporary stable surface in staged area of construction which may not remain closed for long durations.</p> <p>B. Includes placement, maintenance, and removal of granular material.</p> <p>C. Locations shall be as directed by the engineer.</p>
2.06	<p>COMPACTION TESTING</p> <p>A. Required for trenches under paved areas.</p> <p>B. Testing required every 100' of trench and 2' of elevation.</p>
4.01	<p>REMOVAL OF SUBDRAIN</p> <p>A. Includes all existing subdrain/downspout connections.</p>
4.02	<p>SUBDRAIN, NONPERFORATED, 8"</p> <p>A. Required for downspouts. See 'M' sheets and Tab on 'C' Sheets.</p> <p>B. Includes core drilling and connection to existing RCP. Concrete collar, bedding, and all other materials, labor, and equipment are incidental.</p>
4.03	<p>SUBDRAIN, PERFORATED, 4"</p> <p>A. Required behind retaining wall.</p> <p>B. Includes bedding and fabric wrap.</p> <p>C. Includes core drilling and connection to existing RCP. Concrete collar, bedding, and all other materials, labor, and equipment are incidental.</p>
4.04	<p>DOWNSPOUT SERVICE CONNECTIONS</p> <p>A. Includes pipe bends, connection to each type/shape of downspout, materials, and labor.</p> <p>B. See detail 3 on B.01.</p> <p>C. This item shall also include connection of the 6" subdrain into the 8" subdrain and is included in the quantities.</p> <p>D. Approximate slope for all subdrain connections shall be between 0.5% and 5.0%. Contractor to field verify based on utility conflicts.</p> <p>E. Includes sump pump connection at Memorial Hall. Connection location shall be as directed by the Engineer.</p>
6.01	<p>REMOVAL OF STORM SEWER STRUCTURE</p> <p>A. Work involves removal of existing storm sewer structures and castings. All castings removed shall be delivered to the City of Marion Public Services Department.</p> <p>B. All other materials removed become the property of the contractor.</p>
6.02	<p>MANHOLE, SW-401, 48"</p> <p>A. See Tabs on 'C' Sheets.</p> <p>B. See 'M' sheets.</p> <p>C. Lid shall be solid casting.</p> <p>D. Saw cutting of existing pipe and reconnection to existing pipe including concrete collar, shall be included with this item.</p>
6.03	<p>INTAKE TYPE, SW-501 MOD, SINGLE GRATE</p> <p>A. See Tabs on 'C' Sheets.</p> <p>B. See 'M' sheets.</p> <p>C. USF 4139 frame & 6002 grate casting or approved equal.</p> <p>D. Box shall be modified to fit casting.</p> <p>E. Grate shall be ADA compliant.</p> <p>F. Saw cutting of existing pipe and reconnection to existing pipe, shall be included with this item.</p>
7.01	<p>REMOVAL OF EXISTING PAVEMENT</p> <p>A. Includes removals for PCC, HMA, and brick.</p> <p>B. See 'R' sheets for details.</p> <p>C. All salvageable brick, as determined by Engineer, shall be delivered to the City of Marion Public Services Department. All damaged brick, as determined by Engineer shall become property of the contractor.</p> <p>D. Removal of bollards shall be incidental to this item.</p>
7.02	<p>REMOVAL OF EXISTING PAVEMENT MARKINGS</p> <p>A. Remove parking lot pavement markings and word markings.</p> <p>B. See 'R' sheets for details.</p>
7.03	<p>PAVEMENT, PCC, 7"</p> <p>A. Contractor shall include all materials, labor, and equipment necessary to complete pavement as shown in the contract documents.</p> <p>B. Includes epoxy coated doweled joints.</p> <p>C. Includes pavement under paver bands.</p> <p>D. Concrete maturity testing shall be considered incidental to this item.</p> <p>E. See K.04 for locations.</p> <p>F. Pavement along paver bands shall not deviate more than 1" in a 100'.</p> <p>G. Includes expansion joints approximately every 100'</p>
7.04	<p>PAVEMENT, PCC, 6"</p> <p>A. See Tab on 'C' sheet.</p> <p>B. Contractor shall include all materials, labor, and equipment necessary to complete pavement as shown in the contract documents.</p> <p>C. Concrete maturity testing shall be considered incidental to this item.</p> <p>D. Includes stoop behind Cotton Gallery.</p> <p>E. See K.04 for locations.</p> <p>F. Includes expansion joints approximately every 100'</p>
7.05	<p>SIDEWALK, PCC, 4"</p> <p>A. See Tab on 'C' sheets.</p> <p>B. Includes expansion joint approximately every 100'.</p>
7.06	<p>PAVEMENT MARKINGS, PAINTED</p> <p>A. Paint for parking lot. No glass beads.</p> <p>B. See 'P' Sheets for location.</p> <p>C. See Special Provisions.</p>
9.01	<p>FILTER SOCKS, 6"</p> <p>A. See 'F' sheet for locations.</p>
9.02	<p>FILTER SOCKS, REMOVAL</p> <p>A. See 'F' sheet for locations.</p>
9.03	<p>IRRIGATION SYSTEM</p> <p>A. See Special Provisions and details on 'B' sheets.</p> <p>B. See M.01 for locations and installation details.</p>
9.04	<p>ELECTRICAL SYSTEM</p> <p>A. Contractor shall supply all conduit, wiring, handholes, controls, materials, and labor. Includes all disconnects for artwork.</p> <p>B. See 'E' sheets and special provisions.</p> <p>C. Work shall be done by an electrician licensed in the State of Iowa. Inspection will be required by the City of Marion Building Department. All permit fees shall be paid by the contractor.</p>
9.05	<p>PEDESTRIAN LIGHT POLE</p> <p>A. Contractor shall supply all materials, labor and equipment necessary to install pedestrian light poles.</p> <p>B. See tabulation on 'C' sheets, 'E' sheets, and lighting specification.</p>

1 ADD

ESTIMATE REFERENCE NOTES

ESTIMATE REFERENCE NOTES	
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ITEM NO.	DESCRIPTION
9.06	<p>2" HDPE CONDUIT</p> <p>A. This item only includes conduit in north-south alley. See sheet M.02 for location.</p> <p>B. Contractor shall install conduit as shown in the plans. Pull tape and tracer shall be incidental to this item.</p>
9.07	<p>FIBER HANDHOLE</p> <p>A. Handholes for City of Marion fiber network in north-south alley. See M.02 for location.</p> <p>B. Handholes shall be type 2, 24" x 30".</p> <p>C. See lighting specifications.</p>
9.08	<p>1" HDPE CONDUIT, INSTALL ONLY</p> <p>A. Utility companies will provide conduit and tracer wire for contractor to install. Coordination of delivery, locations, and storage of conduit shall be included with this item. Contractor to provide pull string for Alliant and Im On conduits.</p> <p>B. Contractor shall install conduit as directed by the utility company. Contractor shall coordinate with utility company to ensure conduit runs begin and end in the correct places.</p> <p>C. Installation of electrical vaults for Alliant shall be included in this item.</p> <p>D. Contractor to coordinate work with utility companies.</p> <p>E. Approx conduit for Alliant; 650' - 2", 705' - 4", 210' - 5". Alliant total 1,565'.</p> <p>F. Approx. conduit for Im On; 614' - 2"</p> <p>G. Approx. conduit for Mediacom; 510' - 2"</p> <p>H. See Sheet M.02 for approximate locations.</p> <p>I. Subject to change. City reserves the right to increase, decrease, or delete this item.</p>
9.09	<p>ROSETTA OUTCROPPING RETAINING WALL</p> <p>A. See details on 'B' sheets. See 'K' Sheets for wall and adjacent paving elevations.</p> <p>B. Includes all equipment, materials, and labor required to complete work. Expansion joint shall be provided for adjacent paving.</p> <p>C. Color shall be Fon du Lac.</p> <p>D. See special provisions.</p>
9.10	<p>ROSETTA DIMENSIONAL STEPS, 48"x18"x7"</p> <p>A. Shall be used for steps on east side of Iowa Realty Building. See details on 'B' Sheets.</p> <p>B. Color shall be Fon du Lac.</p> <p>C. See special provisions.</p>
9.11	<p>TRAP ROCK, 5"</p> <p>A. Shall be used at locations as shown in the plans. See Tabulation on 'C' Sheets.</p>
9.12	<p>REMOVAL OF RETAINING WALL AND RAILING</p> <p>A. Includes removal of retaining wall on northeast side of Iowa Realty Building. See location on 'R' sheets.</p> <p>B. Includes sawcutting.</p> <p>C. See special provisions.</p>
9.13	<p>PCC PAVERS, RUNNING BOND, SAND SETTING BED</p> <p>A. See details on 'B' sheets.</p> <p>B. See special provisions.</p> <p>C. Paver pattern shall be running bond.</p> <p>D. Paver color shall be Basalt.</p> <p>E. Item shall include weep holes and engineering fabric.</p>
9.14	<p>SOD</p> <p>A. Shall be used for existing grass disturbed areas.</p> <p>B. 4" of topsoil shall be included under disturbed area. Topsoil is incidental.</p>
9.15	<p>ARTWORK A - FOOTING</p> <p>A. See 'D' Sheets for location. See preliminary detail on B.03.</p> <p>B. See Tabulation on C.02.</p> <p>C. Includes all equipment, materials, and labor required to install Artwork A Footing. Artwork design and installation by others.</p> <p>D. Basic electrical work is included in Electrical System Bid Item. All additional electrical work specific to the art installation is the responsibility of the artist. Contractor to coordinate.</p> <p>E. Footing locations and sizes shown are preliminary and subject to change. Final footing design shall be provided prior to construction. Shive-Hattery bares no responsibility for the design of the footings.</p> <p>F. Contractor to verify location and size of footings/artwork with city of Marion.</p>
9.16	<p>ARTWORK B - FOOTING</p> <p>A. See 'D' Sheets for location. See preliminary detail on B.03.</p> <p>B. See Tabulation on C.02.</p> <p>C. Includes all equipment, materials, and labor required to install Artwork B Footing. Artwork design and installation by others.</p> <p>D. Footing locations and sizes shown are preliminary and subject to change. Final footing design shall be provided prior to construction. Shive-Hattery bares no responsibility for the design of the footings.</p> <p>E. Contractor to verify location and size of footings/artwork with city of Marion.</p>
9.17	<p>ARTWORK C - FOOTING</p> <p>A. See 'D' Sheets for location. See preliminary detail on B.03.</p> <p>B. See Tabulation on C.02.</p> <p>C. Includes all equipment, materials, and labor required to install Artwork C Footing. Artwork design and installation by others.</p> <p>D. Basic electrical work is included in Electrical System Bid Item. All additional electrical work specific to the art installation is the responsibility of the artist. Contractor to coordinate.</p> <p>E. Footing locations and sizes shown are preliminary and subject to change. Final footing design shall be provided prior to construction. Shive-Hattery bares no responsibility for the design of the footings.</p> <p>F. Contractor to verify location and size of footings/artwork with city of Marion.</p>
9.18	<p>ARTWORK D - FOOTING</p> <p>A. See 'D' Sheets for location. See detail 7 on B.02.</p> <p>B. Includes all equipment, materials, and labor required to install Artwork D footing. Construction of wall shall be done by others.</p> <p>C. Footing/wall location and size shown are preliminary and subject to change. Final footing design shall be provided prior to construction. Shive-Hattery bares no responsibility for the design of the footings.</p> <p>D. Contractor to coordinate wall design, location, and artwork with city of Marion.</p>
9.19	<p>ARTWORK E - FOOTING</p> <p>A. See 'D' Sheets for location. See preliminary detail on B.03.</p> <p>B. See Tabulation on C.02.</p> <p>C. Includes all equipment, materials, and labor required to install Artwork E Footing. Artwork design and installation by others.</p> <p>D. Basic electrical work is included in Electrical System Bid Item. All additional electrical work specific to the art installation is the responsibility of the artist. Contractor to coordinate.</p> <p>E. Footing locations and sizes shown are preliminary and subject to change. Final footing design shall be provided prior to construction. Shive-Hattery bares no responsibility for the design of the footings.</p>
9.20	<p>ARTWORK F - COORDINATION</p> <p>A. See 'D' Sheets for location.</p> <p>B. Includes all coordination between the contractor, the City of Marion and artist.</p>
9.21	<p>ARTWORK G - COORDINATION</p> <p>A. See 'D' Sheets for location.</p> <p>B. Includes all coordination between the contractor, the City of Marion and artist.</p>
9.22	<p>ARTWORK H - COORDINATION</p> <p>A. See 'D' Sheets for location.</p> <p>B. Basic electrical work is included in Electrical System Bid Item. All additional electrical work specific to the art installation is included in this item.</p> <p>D. Includes all coordination between the contractor, the City of Marion and artist.</p>
9.23	<p>ARTWORK I - COORDINATION</p> <p>A. See 'D' Sheets for location.</p> <p>B. Includes all coordination between the contractor, The City of Marion and artist.</p>

1 ADD

ALTERNATE

ITEM NO.	DESCRIPTION
9.04a	<p>ELECTRICAL SYSTEM</p> <p>A. Contractor shall supply all conduit, wiring, controls, materials, and labor for pedestrian light poles alternate item.</p> <p>B. See locations on 'E' sheets and special provisions.</p> <p>C. Work shall be done by an electrician licensed in the State of Iowa. Inspection will be required by the City of Marion Building Department. All permit fees shall be paid by the contractor.</p> <p>D. Includes approximately 75 LF of 1" HDPE conduit and wiring for Pedestrian Light Pole alternate.</p>
9.05a	<p>PEDESTRIAN LIGHT POLE</p> <p>A. Contractor shall supply all materials, labor and equipment necessary to install pedestrian light poles.</p> <p>B. See tabulation on 'C' sheets, 'E' sheets, and lighting specification.</p> <p>C. The locations noted shall be bid as alternate items that may be removed from the project.</p> <p>D. Lighting standards in alley are contingent on all light poles being constructed. Shive-Hattery bares no responsibility in the event of this item being removed from the project.</p>

1 ADD

REMOVAL OF STORM SEWER STRUCTURES				
NO.	STATION	OFFSET	TYPE	REMARKS
1	21+41.65	7.17' L	Storm Sewer Intake	Existing Intake Buried Under HMA
2	21+62.11	0.25' L	Storm Sewer Intake	

STORM SEWER INTAKES/MANHOLES							
NO.	TYPE	STATION	OFFSET	FORM GRADE	FLOW LINE IN	FLOW LINE OUT	REMARKS
INT 1	SW-501	22+13.5	0' L	850.75	846.60	846.60	USF 4139 FRAME & 6002 GRATE OR APPROVED EQUAL
INT 2	SW-501	21+62.1	0' L	849.85	846.13	846.13	USF 4139 FRAME & 6002 GRATE OR APPROVED EQUAL
INT 3	48" - SW-401	21+41.7	7' L	849.89	845.92	845.92	

DOWNSPOUT CONNECTIONS / 8" SUBDRAIN						
NO.	STATION	OFFSET	LENGTH (LF)	GROUND ELEV AT DOWNSPOUT	ELEV AT PIPE CONNECTION	REMARKS
1	20+45.1	24.2' L	40.0	849.9	845.1	Iowa Realty, SW Corner of Building
2	20+66.3	5.8' R	14.0	849.5	845.7	Body Works
3	21+01.0	5.4' R	2.0	849.8	846.0	Bill's, tee into subdrain for downspout connection 14
4	21+15.1	24.7' L	18.0	849.8	845.1	Iowa Realty, tie into existing storm sewer at STA 20+16
5	21+51.6	34.3' R	41.0	850.5	846.5	Cotton Gallery
6	21+73.1	3.6' R	10.0	850.1	846.7	Campbell Steele Gallery
7	21+81.3	5.3' L	5.0	850.2	846.8	Memorial Hall
8	21+97.7	20.5' R	22.0	850.7	847.0	Campbell Steele Gallery
9	22+17.3	5.3' R	6.0	850.9	847.5	Martin Design, tee into subdrain for downspout connection 13
10	22+40.7	5.0' R	5.0	851.1	847.4	Martin Design, cap for future downspout
11	22+58.3	5.1' R	5.0	851.2	847.6	Martin Design
12	22+69.5	5.0' R	5.0	851.1	847.7	Martin Design, cap for future downspout
13	22+17.9	23.5' R	20.0	851.0	847.5	Running Wild, tie directly into Intake 1, cap for future downspout
14	21+00.8	32.1' R	40.0	850.0	846.0	Bill's, Connect to existing downspout subdrain at removals limit.
TOTAL			233			

Elevation at pipe connection is estimate. Contractor to verify elevation.
See Details 5, 6, and 7 on B.01. Approximate slope for all subdrain is 1.0%. Contractor to verify based on utility conflicts.

PAVEMENT, PCC, 6"				
STATION TO STATION	SIDE	AREA** (SQ YDS)	REMARKS	
East-West Alley				
20+65.9	21+01.3	R	103.9	Courtyard behind Maid-Rite
21+51.5	21+72.4	R	40.7	Courtyard area behind Cotton Gallery
21+54.4	21+65.8	R	4.1	Stoop behind Cotton Gallery
21+72.4	21+97.0	R	13.9	Courtyard area behind Campbell Steele Gallery
21+97.0	22+17.8	R	41.7	Courtyard area behind Running Wild
DISCRETIONARY 5%			10	
TOTAL			215	

SIDEWALK, PCC, 4"				
STATION TO STATION	SIDE	AREA** (SQ YDS)	REMARKS	
North-South Alley				
10+09.6	10+15.9	L	3.6	
East-West Alley				
20+13.9	20+19.7	L	11.8	Sidewalk along 10th Street (west of wall)
20+19.7	21+15.5	L	43.6	Along South Side of Iowa Realty Building
20+28.3	20+33.3	R	8.7	Tie-In to Iowa Realty Entrance (to north)
DISCRETIONARY 5%			3.4	
TOTAL			71	

PCC PAVER, RUNNING BOND, SAND SETTING BED, BASALT COLOR				
STATION TO STATION	SIDE	AREA (SF)	REMARKS	
North-South Alley				
10+22.0	10+22.6	-	6.3	
10+34.6	10+35.2	-	6.3	
10+47.2	10+47.9	-	6.3	
10+59.9	10+60.5	-	6.3	
10+72.5	10+73.1	-	6.3	
10+85.2	10+85.8	-	6.3	
10+97.8	10+98.4	-	6.3	
11+10.4	11+11.1	-	6.3	
11+23.1	11+23.7	-	6.3	
11+35.7	11+36.3	-	6.3	Alley Intersection
11+45.4	11+46.1	-	6.3	Alley Intersection
11+58.1	11+58.7	-	6.3	
11+70.7	11+71.3	-	6.3	
11+83.3	11+84.0	-	6.3	
11+96.1	11+96.7	-	6.3	
East-West Alley				
20+27.2	20+27.8	-	6.8	
20+39.8	20+40.4	-	6.8	
20+52.5	20+53.1	-	6.8	
20+65.1	20+65.7	-	6.8	
20+77.7	20+78.4	-	6.8	
20+90.4	20+91.0	-	6.8	
21+03.0	21+03.6	-	6.8	
21+15.7	21+16.3	-	6.8	
21+28.2	21+28.9	-	6.8	
21+40.9	21+41.6	-	6.8	Alley Intersection
21+50.9	21+51.6	-	6.8	Alley Intersection
21+65.1	21+65.7	-	6.8	
21+77.8	21+78.4	-	6.8	
21+90.4	21+91.0	-	6.8	
22+03.0	22+03.7	-	6.8	
22+15.7	22+16.3	-	6.8	
22+28.3	22+28.9	-	6.8	
22+41.0	22+41.6	-	6.8	
22+53.6	22+54.2	-	6.8	
22+66.2	22+66.9	-	6.8	
DISCRETIONARY 5%			12	
TOTAL			242	

Paver width approximately 2.5". Contractor shall provide approximately 7 5/8" width for 3 pavers. Paver band width shall be verified by contractor to include 3 pavers and approved by inspector.

TRAP ROCK, 6" ² ADD				
STATION TO STATION	SIDE	AREA** (SQ FT)	REMARKS	
North-South Alley				
11+98.0	12+08.4	R	190.7	
East-West Alley				
20+22.1	20+72.2	R	319.0	in retaining wall
DISCRETIONARY 5%			25	
TOTAL			535	

PEDESTRIAN LIGHT POLES				
STATION	OFFSET	TOP OF FOOTING ELEVATION	BID TYPE	REMARKS
North-South Alley				
10+58.9	3.4' R	853.16	Alternate	Extended Flush Pole Base. See Detail 3 on E.06
11+75.9	6.5' L	849.90	Base	
11+76.3	27.0' L	850.51	Base	
East-West Alley				
20+97.4	5.7' R	850.78	Base	
21+70.5	5.8' R	851.06	Alternate	
22+40.0	4.7' R	852.11	Alternate	Extended Flush Pole Base. See Detail 3 on E.06

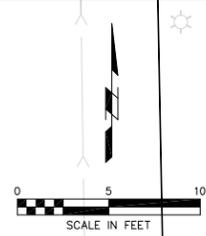
Notes:
1. Top of Footing Elevation is 12" above finished grade.
2. See details on E.06 for footing, cap, and pole elevation details.
3. Light Poles at 10+58.9, 21+70.5, and 22+40.0 are alternates and may be removed from the project.

ARTWORK FOOTINGS					
ARTWORK	LOCATION		FOOTING DIAMETER (IN)	TOP OF FOOTING ELEVATION	REMARKS
	STATION	OFFSET			
A	20+28.3	14.84 L	30"	851.5	
A	20+33.3	12.9' L	30"	851.5	
A	20+37.3	13.5' L	30"	851.5	
A	20+40.8	15.5' L	30"	851.5	
A	20+49.8	15.9' L	30"	851.5	
A	20+52.3	14.2 L	30"	851.5	
A	20+55.4	15.9' L	30"	851.5	
B	20+84.5	18.5' R	48"	850.8	Footing shall be 12" above finished grade
C	21+32.7	8.8' L	24"	849.8	
C	21+34.9	14.1' L	24"	849.7	
C	21+36.9	9.8' L	24"	849.8	
E	22+07.4	10.8' R	36"	851.8	Footing shall be 12" above finished grade

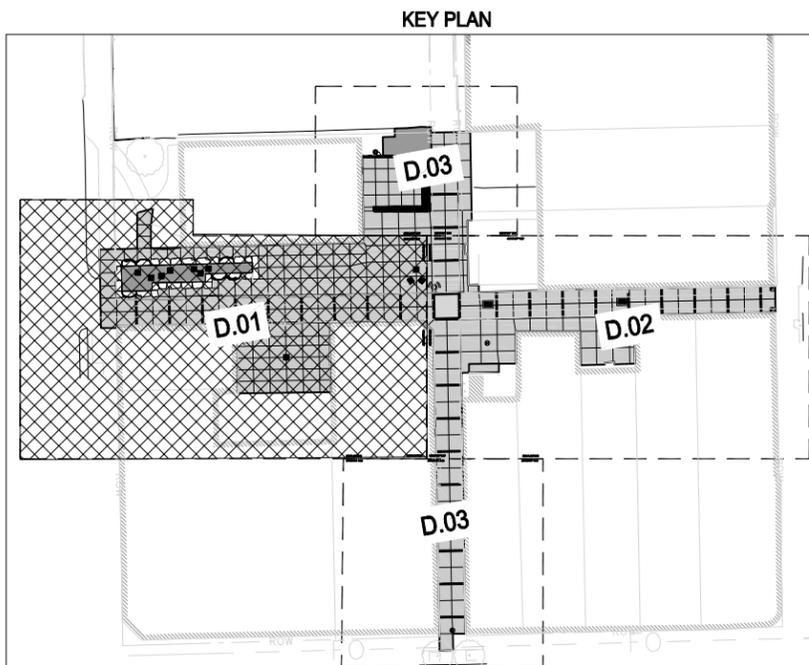
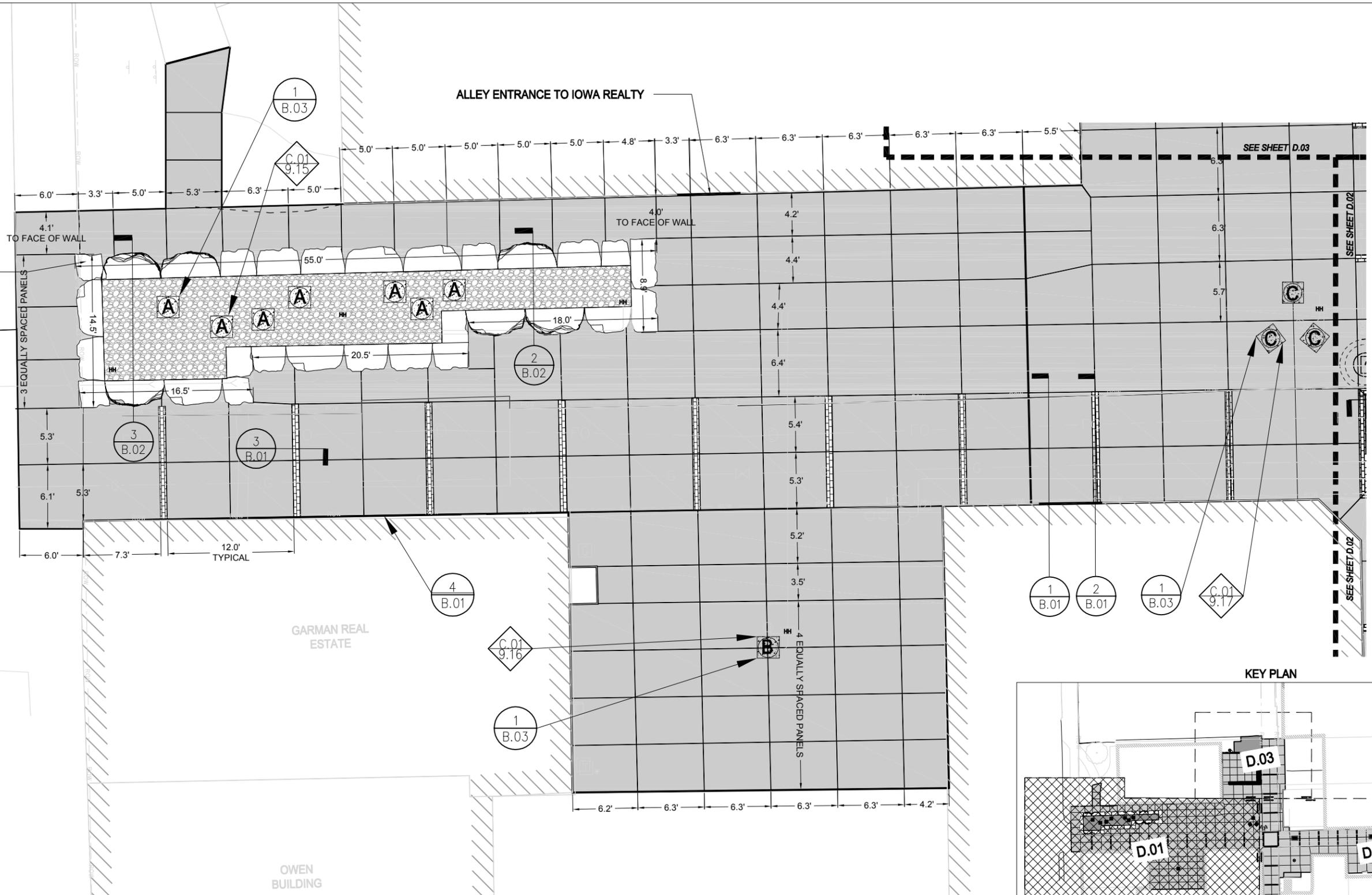
Notes:
1. Artwork B and E footings shall be 12" above finished grade to allow for recepticle. See detail on E.05
2. Footing design is preliminary and subject to change. See Estimate Reference Notes on C.01.

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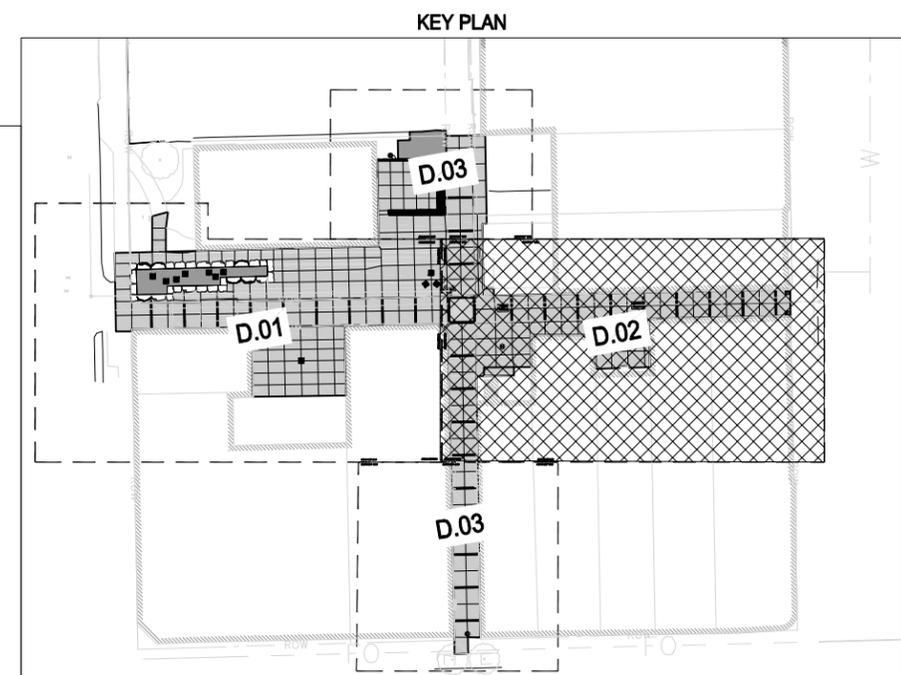
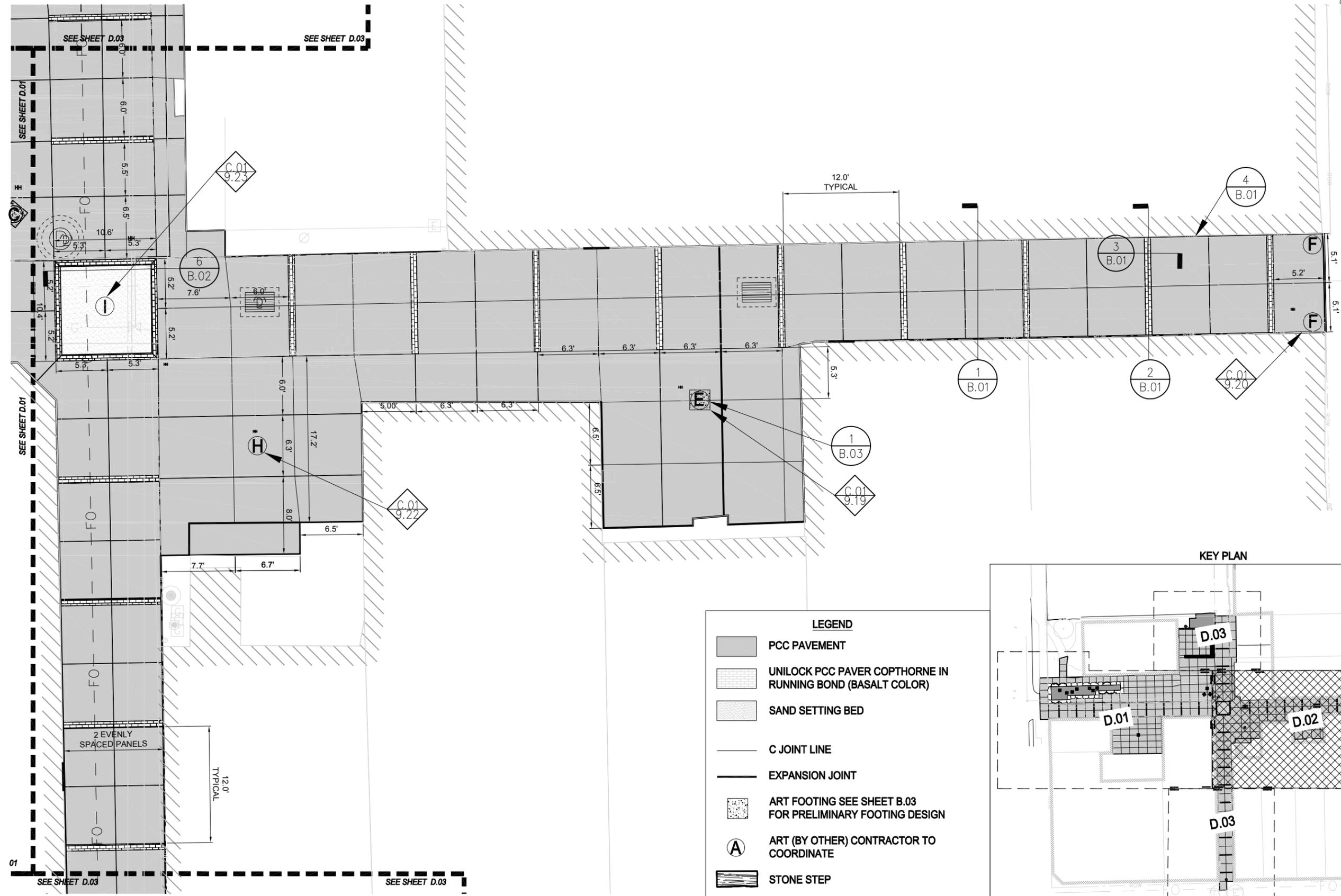
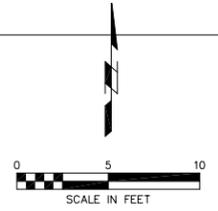


NOTE: RETAINING WALL IS REPRESENTATIONAL ONLY. DIMENSIONS VARY SEE MANUFACTURERS SPECIFICATIONS



LEGEND	
	PCC PAVEMENT
	UNILOCK PCC PAVER COPTHORNE IN RUNNING BOND (BASALT COLOR)
	C JOINT LINE
	EXPANSION JOINT
	ART FOOTING SEE SHEET B.03 FOR PRELIMINARY FOOTING DESIGN
	ART (BY OTHER) CONTRACTOR TO COORDINATE
	STONE OUTCROPPING
	STONE STEP

NO.	REVISION DESCRIPTION	APPROVED	DATE

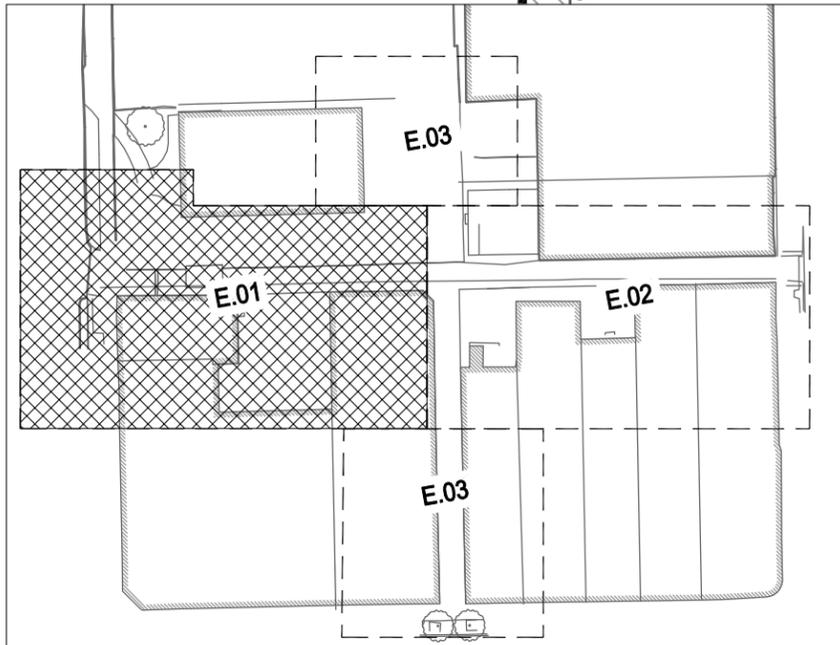
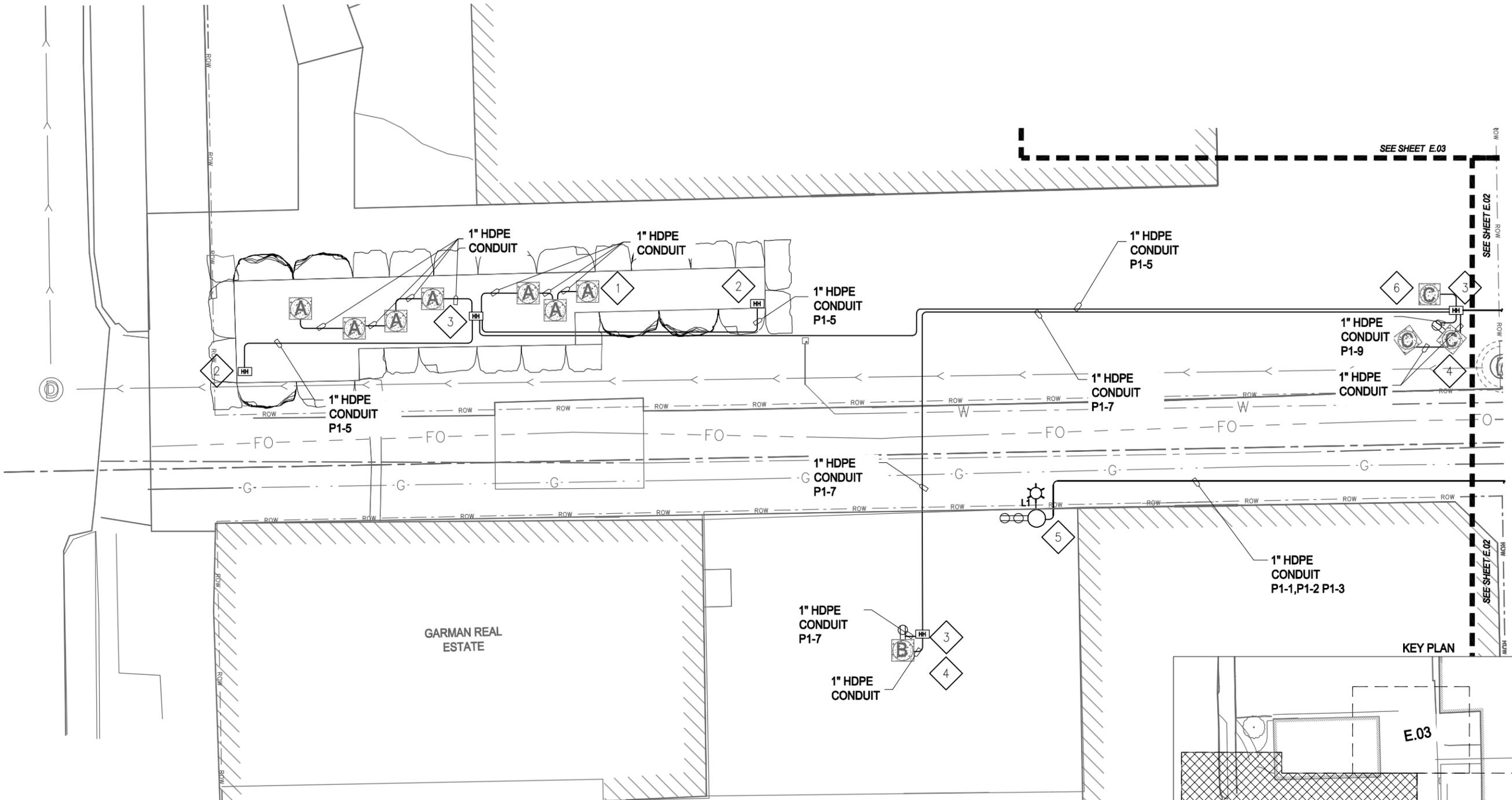
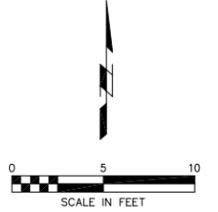


LEGEND

- PCC PAVEMENT
- UNILOCK PCC PAVER COPTHORNE IN RUNNING BOND (BASALT COLOR)
- SAND SETTING BED
- C JOINT LINE
- EXPANSION JOINT
- ART FOOTING SEE SHEET B.03 FOR PRELIMINARY FOOTING DESIGN
- ART (BY OTHER) CONTRACTOR TO COORDINATE
- STONE STEP

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ELECTRICAL GENERAL NOTES

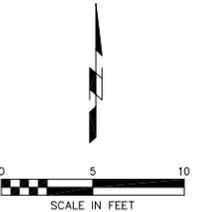
1. THE LOCATIONS OF ALL UTILITIES SHOWN ON THE PLANS ARE TAKEN FROM THE EXISTING PUBLIC RECORDS, AND AS SUCH, ARE NOT GUARANTEED. THE EXACT LOCATION, SIZE, AND ELEVATION OF ALL UTILITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ASCERTAIN WHETHER ANY ADDITIONAL FACILITIES OTHER THAN THOSE SHOWN ON THE PLAN MAY BE PRESENT AND TO PROTECT ALL UTILITIES. LOCATION REQUESTS CAN BE MADE BY CALLING 1-800-292-8989.
2. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT REQUIREMENTS OF POWER INSTALLATIONS WITH OWNER PRIOR TO ANY CONDUIT AND/OR EQUIPMENT ROUGH-IN FOR ART INSTALLATIONS.
3. CONDUIT ROUTING IS DIAGRAMMATICAL IN NATURE. ELECTRICAL CONTRACTOR SHALL COORDINATE PATHS WITH PRIVATE UTILITIES AND OTHER TRADES PRIOR TO TRENCHING.

ELECTRICAL KEY NOTES

- 1 REFER TO DETAIL 2/E.05. TYPICAL ALL "A" FOUNDATIONS.
- 2 REFER TO DETAIL 1/E.05.
- 3 REFER TO DETAIL 4/E.04. TYPICAL ALL HANDHOLES.
- 4 REFER TO DETAIL 3/E.05.
- 5 REFER TO DETAIL 1/E.06 & 2/E.06.
- 6 REFER TO DETAIL 2/E.05. TYPICAL (2) TWO "C" FOUNDATIONS.

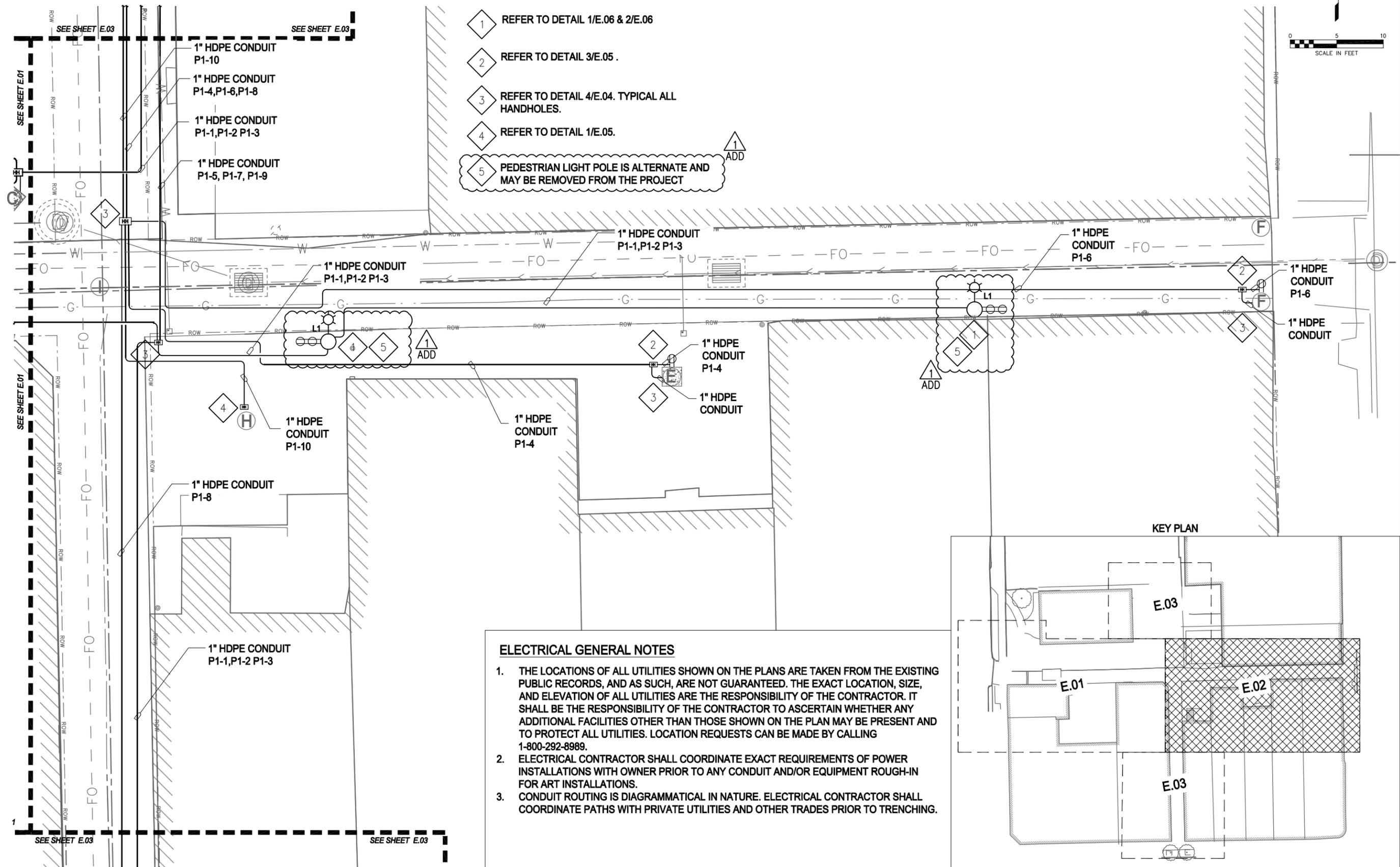
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ELECTRICAL KEY NOTES

- 1 REFER TO DETAIL 1/E.06 & 2/E.06
- 2 REFER TO DETAIL 3/E.05 .
- 3 REFER TO DETAIL 4/E.04. TYPICAL ALL HANDHOLES.
- 4 REFER TO DETAIL 1/E.05.
- 5 PEDESTRIAN LIGHT POLE IS ALTERNATE AND MAY BE REMOVED FROM THE PROJECT

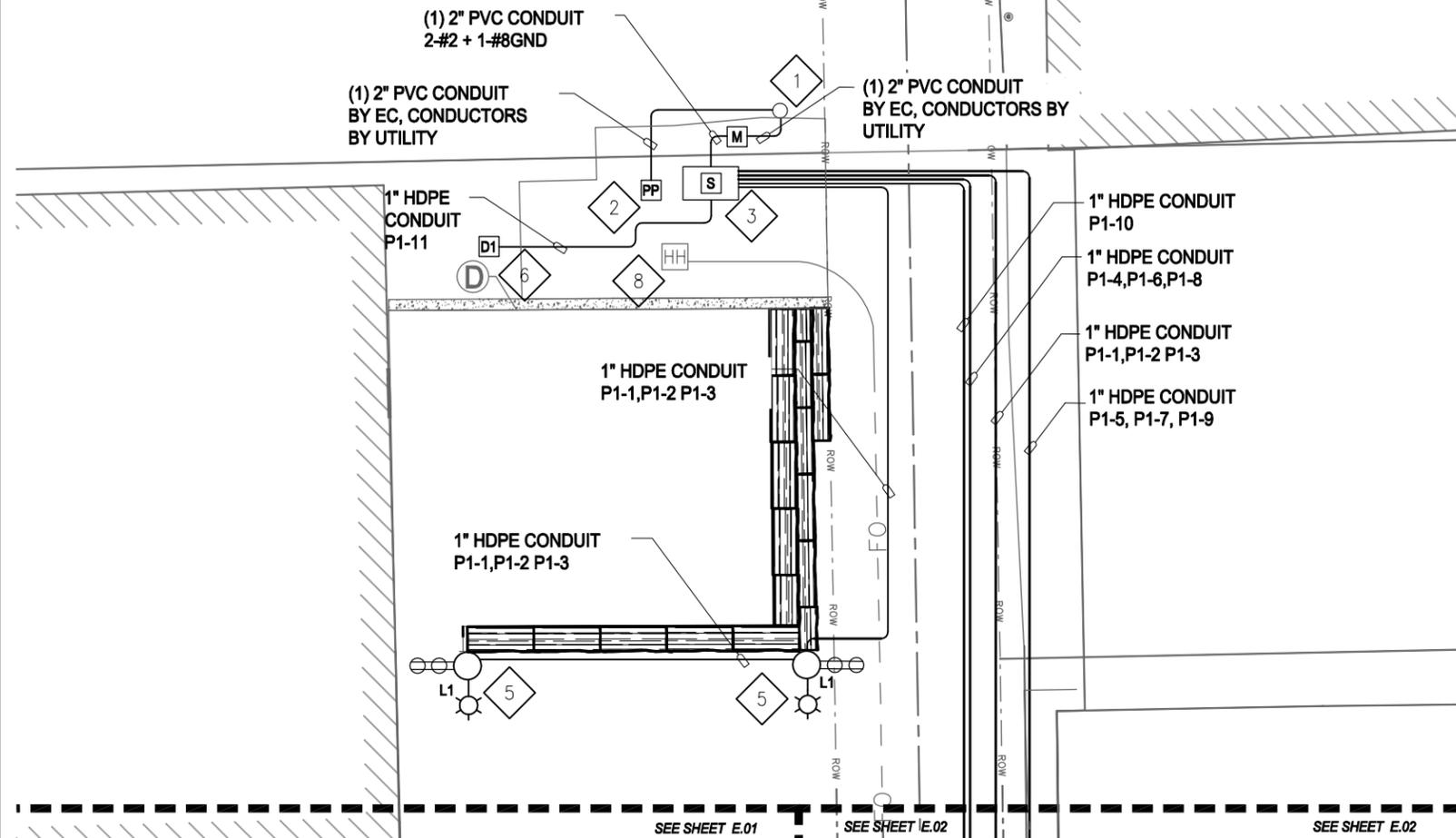
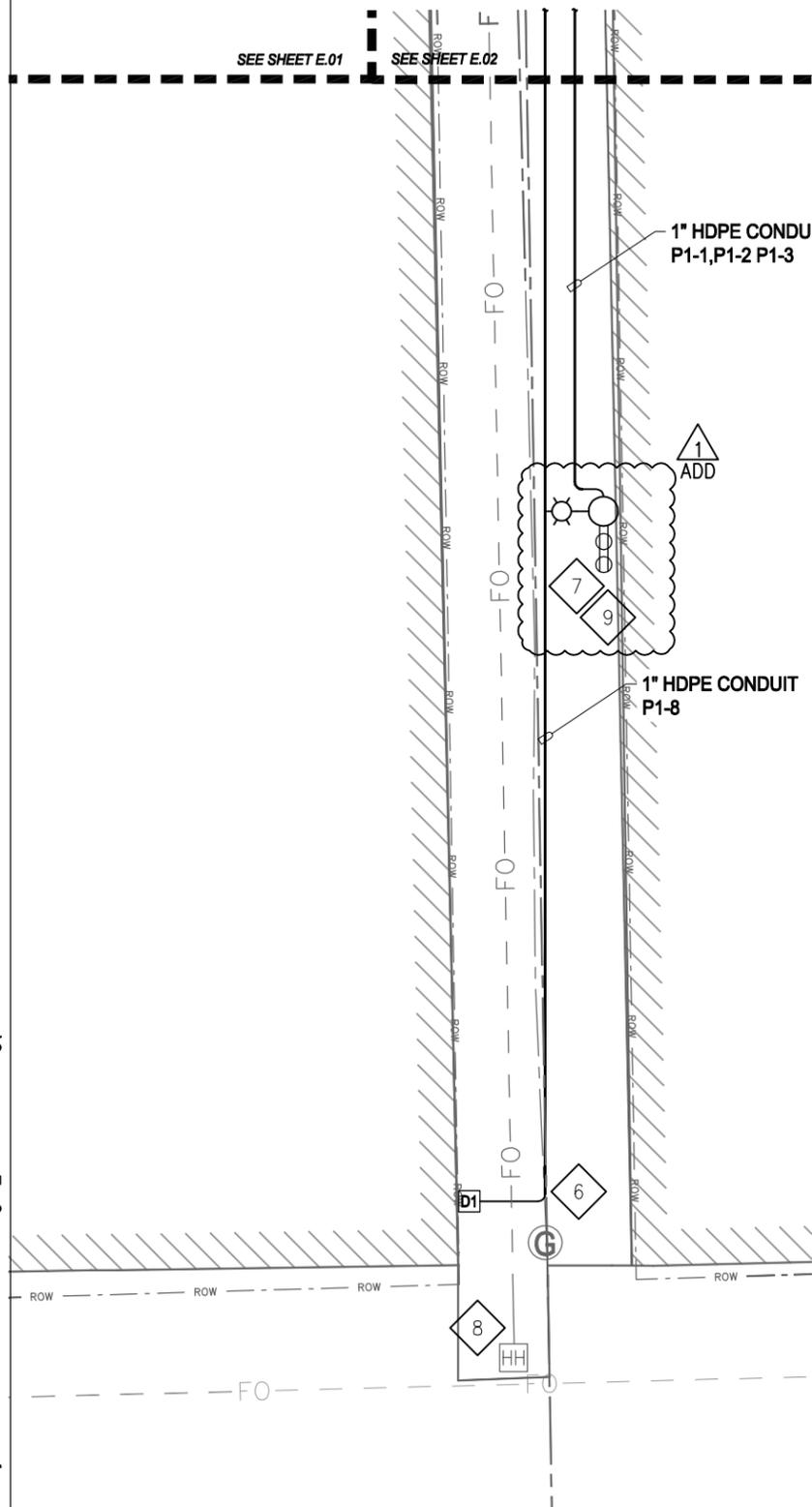
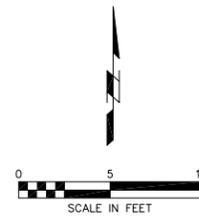
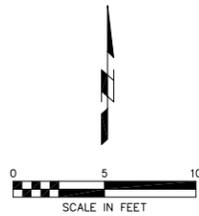


ELECTRICAL GENERAL NOTES

1. THE LOCATIONS OF ALL UTILITIES SHOWN ON THE PLANS ARE TAKEN FROM THE EXISTING PUBLIC RECORDS, AND AS SUCH, ARE NOT GUARANTEED. THE EXACT LOCATION, SIZE, AND ELEVATION OF ALL UTILITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ASCERTAIN WHETHER ANY ADDITIONAL FACILITIES OTHER THAN THOSE SHOWN ON THE PLAN MAY BE PRESENT AND TO PROTECT ALL UTILITIES. LOCATION REQUESTS CAN BE MADE BY CALLING 1-800-292-8989.
2. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT REQUIREMENTS OF POWER INSTALLATIONS WITH OWNER PRIOR TO ANY CONDUIT AND/OR EQUIPMENT ROUGH-IN FOR ART INSTALLATIONS.
3. CONDUIT ROUTING IS DIAGRAMMATICAL IN NATURE. ELECTRICAL CONTRACTOR SHALL COORDINATE PATHS WITH PRIVATE UTILITIES AND OTHER TRADES PRIOR TO TRENCHING.

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ADDENDUM 1		CSD	12.16.15
NO.	REVISION DESCRIPTION	APPROVED	DATE



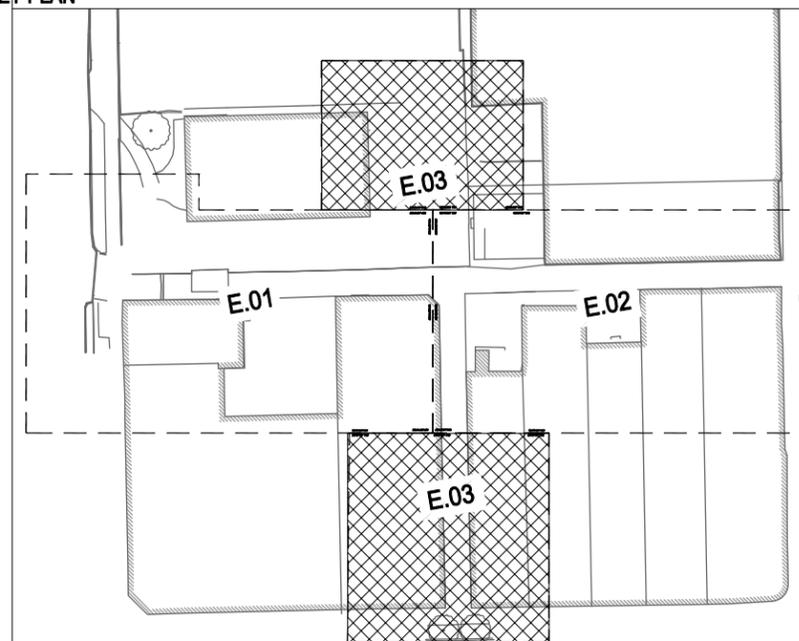
ELECTRICAL KEY NOTES

- 1 EXISTING POLE MOUNTED UTILITY TRANSFORMER
- 2 REFER TO DETAIL 1/E.04
- 3 REFER TO DETAIL 2/E.04
- 4 REFER TO DETAIL 4/E.04. TYPICAL ALL HANDHOLES.
- 5 REFER TO DETAIL 1/E.06 & 2/E.06
- 6 REFER TO DETAIL 3/E.04
- 7 REFER TO DETAIL 2/E.06 & 3/E.06
- 8 HANDHOLE PROVIDED AS PART OF FIBER RELOCATION
- 9 PEDESTRIAN LIGHT POLE IS ALTERNATE AND MAY BE REMOVED FROM THE PROJECT

ELECTRICAL GENERAL NOTES

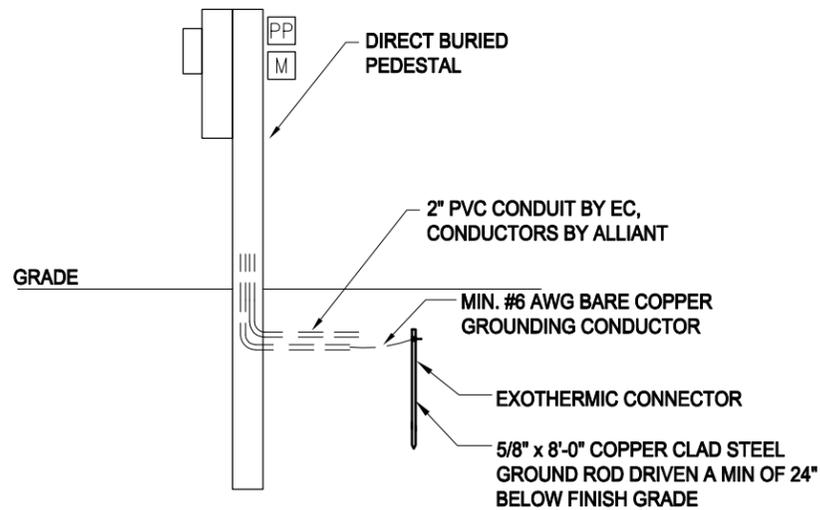
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3. CONDUIT ROUTING IS DIAGRAMMATICAL IN NATURE. ELECTRICAL CONTRACTOR SHALL COORDINATE PATHS WITH PRIVATE UTILITIES AND OTHER TRADES PRIOR TO TRENCHING.

KEY PLAN



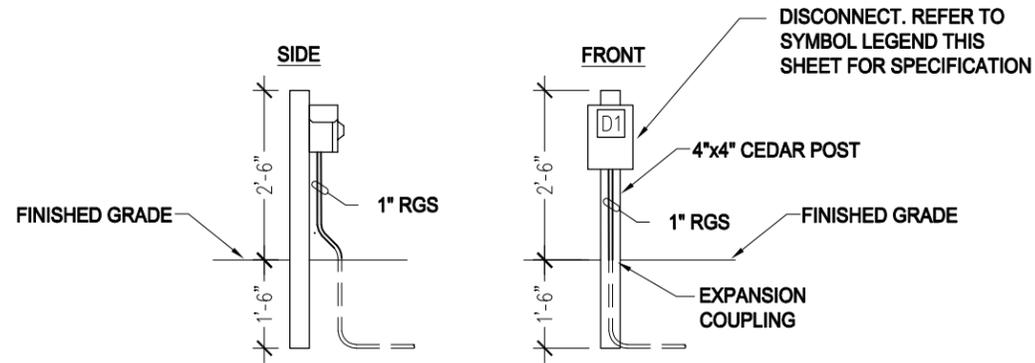
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1	ADDENDUM 1	CBD	12.16.15

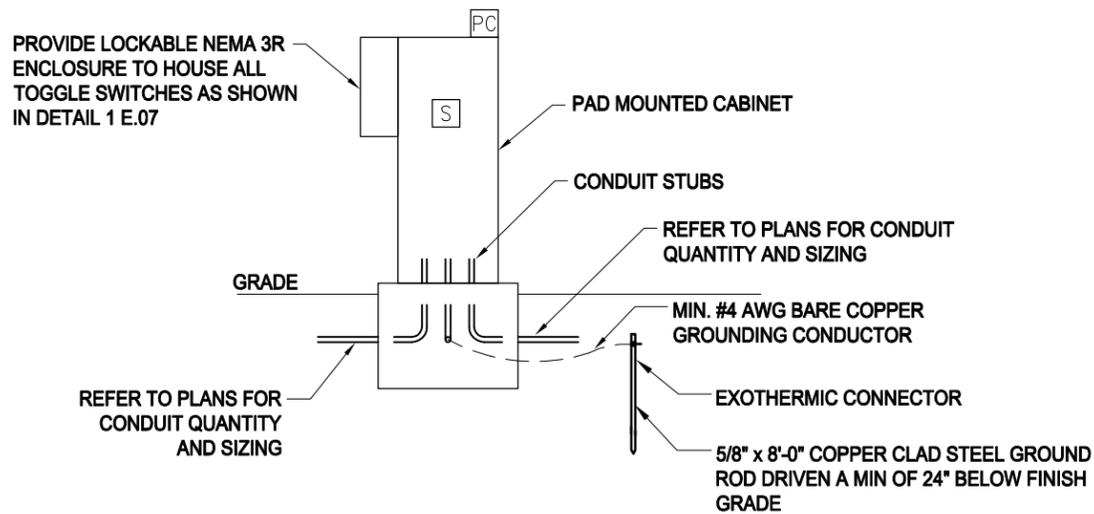


1 DIRECT BURY PEDESTAL DETAIL
NOT TO SCALE

NOTE:
1. SIDE VIEW SHOWN

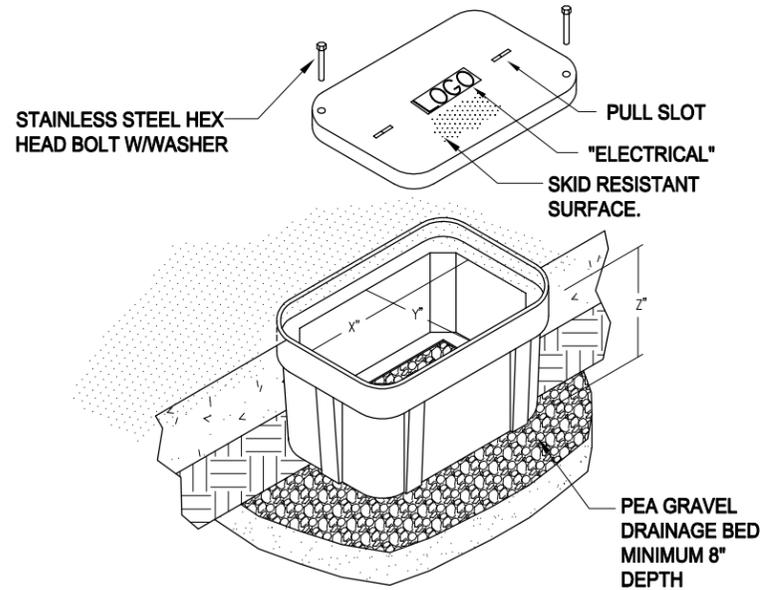


3 POST MOUNTED DISCONNECT
NOT TO SCALE



2 PAD MOUNTED CABINET DETAIL
NOT TO SCALE

NOTE:
1. SIDE VIEW SHOWN
2. FOOTPRINT OF PAD SHALL BE COORDINATED WITH MANUFACTURER SPECS
3. CABINET FOOTING SHALL MEET OR EXCEED SUDAS STANDARD SPEC 8010.101



4 STANDARD HAND HOLE DETAIL
NOT TO SCALE

NOTES:
1. BOX SIZE SHALL BE SIZED PER NEC MINIMUM
2. REFER TO SHEET E.04 FOR SPECIFICATION

ELECTRICAL SYMBOL LEGEND

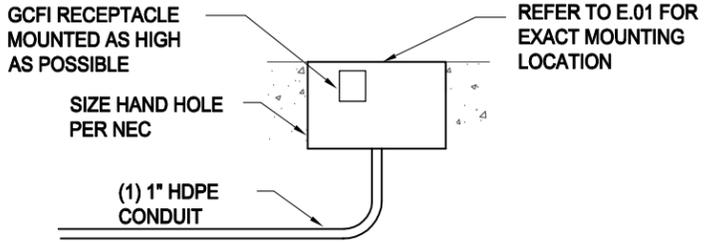
	EXTERIOR LIGHT POLE WITH TYPE L1 LIGHTING FIXTURE AND MOUNTING AND TWO DUPLEX RECEPTACLES MOUNTED AS SHOWN IN DETAIL 2/E.06
	DIGITAL TIME CLOCK WITH PHOTOCELL INPUT, 120V, MANUAL OVERRIDE, DAILY SCHEDULING. TIME CLOCK: SIMILAR TO TORK DGU-100, PHOTOCELL: SIMILAR TO TORK EPC1
	CONTACTOR SIMILAR TO SQAURE D 8903, 30A, ELECTRICALLY HELD, 8-POLE, 120V COIL, OPEN TYPE.
	HAND HOLE MUST MEET, OR EXCEED NEC CODE MINIMUM DIMENSIONS WITH APPROVAL OF ENGINEER, AND IOWA DOT RM-38 WHERE NECESSARY
	METERED POWER PEDESTAL SIMILAR TO EATON CH-1AG-4EG-6G-P-TZ. MUST FURNISH WITH (1)50A, 2-POLE BREAKER, (1)30A, 1-POLE BREAKER, & (1)20A 1-POLE BREAKER, LOCKABLE. REFER TO METER DETAIL 1 THIS SHEET FOR MOUNTING. MUST BE APPROVED BY ALLIANT.
	METER PEDESTAL ALLIANT APPROVED FREE STANDING METER PEDESTAL. REFER TO DETAIL 1 THIS SHEET FOR MOUNTING.
	PAD MOUNTED CABINET NEMA TYPE 3R OUTDOOR CABINET, PAD MOUNTED, 36"Wx18"Dx60"H, 14 GAUGE STEEL, POWDER COATED. SIMILAR TO HOFFMAN A60R3618FSL. REFER TO PAD MOUNTED CABINET DETAIL THIS SHEET.
	HEAVY DUTY NON-FUSIBLE DISCONNECT SWITCH, 240V, 30A/3P, LOCKABLE, WITH SOLID NEUTRAL, FACTORY INSTALLED GROUNDING KIT, NEMA 3R, UL LISTED.
	DUPLEX RECEPTACLE, GFCI, 120V, 1-POLE, 20A, HEAVY DUTY, WITH WEATHER PROOF IN-USE BUBBLE COVER
	INDUSTRIAL GRADE HEAVY DUTY, SPST TOGGLE SWITCH, 120V, 20A, PILOT LIGHT
	SPST DIMMER SWITCH, 120V, 20A, WITH 'ON' INDICATOR LIGHT. EC SHALL CHOOSE DIMMER TO BE COMPATIBLE WITH LED FIXTURE 0-10V DIMMING DRIVER

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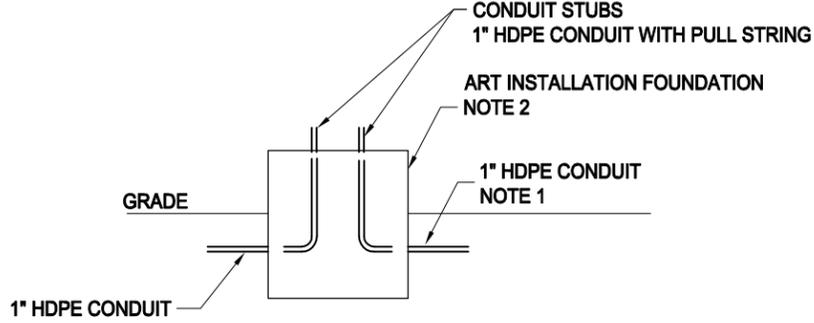
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LIGHTING FIXTURE SCHEDULE

PLAN MARK	MANUFACTURER AND MODEL NUMBER	LAMPS	VOLTS	MOUNTING	MOUNTING HEIGHT	REMARKS	NOTES
L1	PHILIPS VLR-29L350NW-G1-PC-C-3-UNV-DCP-PH8-BKTX	LED	120V	POLE TOP	12' AFG	---	MOUNTED ON POLE
LIGHT POLE	LUMEC SM8F-10-DR [(2)TOP & BOTTOM]	---	---	---	---	6" ROUND STEEL POLE WITH 2 RECEPTACLES.	---

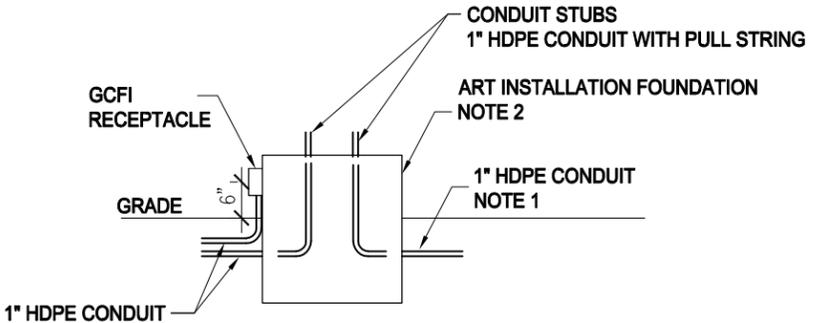


1 HANDHOLE RECEPTACLE DETAIL
NOT TO SCALE



2 ART INSTALLATION FOUNDATION DETAIL
NOT TO SCALE

- NOTE:**
1. CONDUIT ONLY NEEDED TO FEED ADDITIONAL FOUNDATIONS AS SHOWN ON PLANS.
 2. REFER TO DETAIL 1/B.03 FOR MORE INFORMATION.



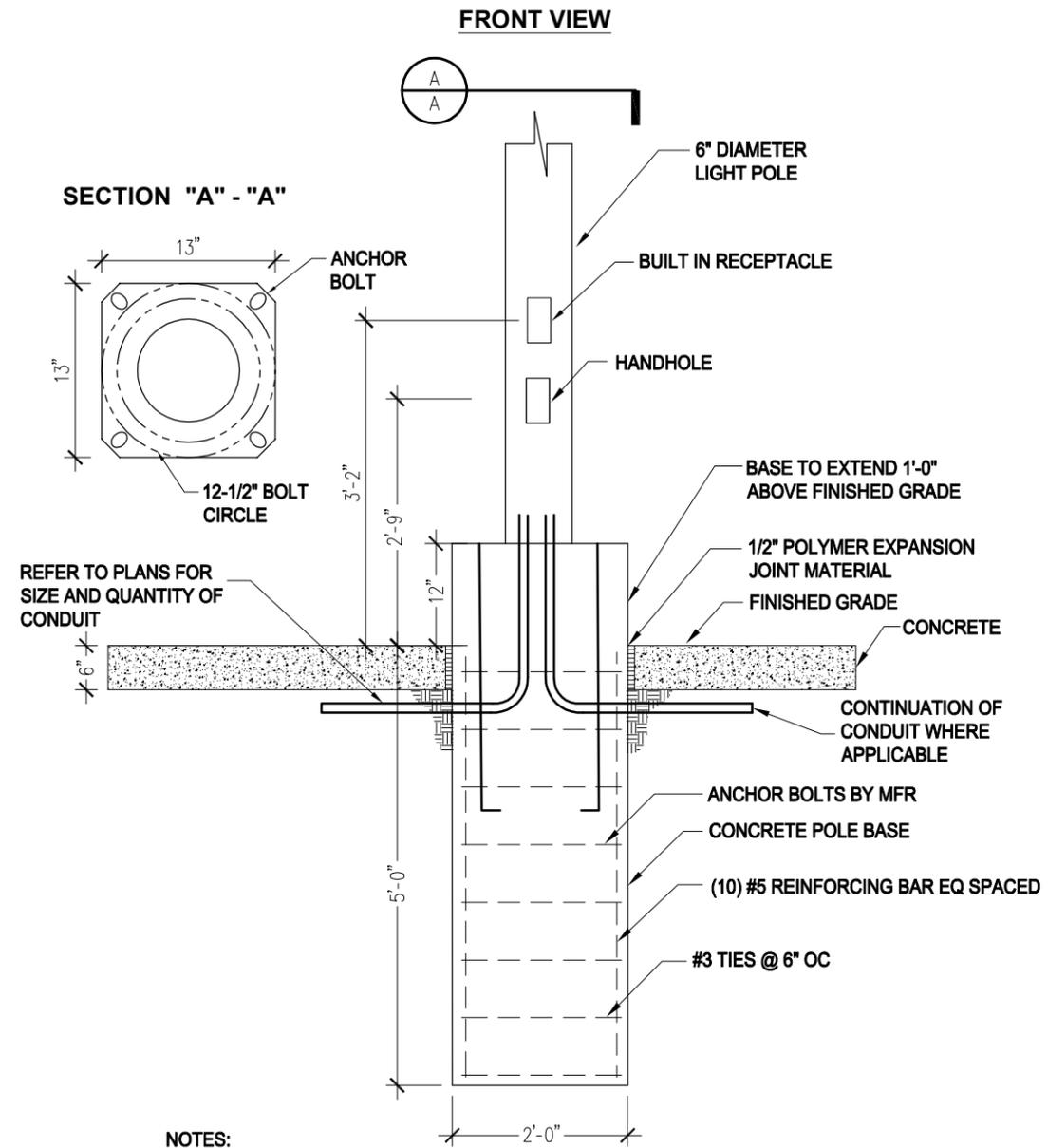
3 FOUNDATION MOUNTED RECEPTACLE DETAIL
NOT TO SCALE

- NOTE:**
1. CONDUIT ONLY NEEDED TO FEED ADDITIONAL FOUNDATIONS AS SHOWN ON PLANS.
 2. REFER TO DETAIL 1/B.03 FOR MORE INFORMATION.

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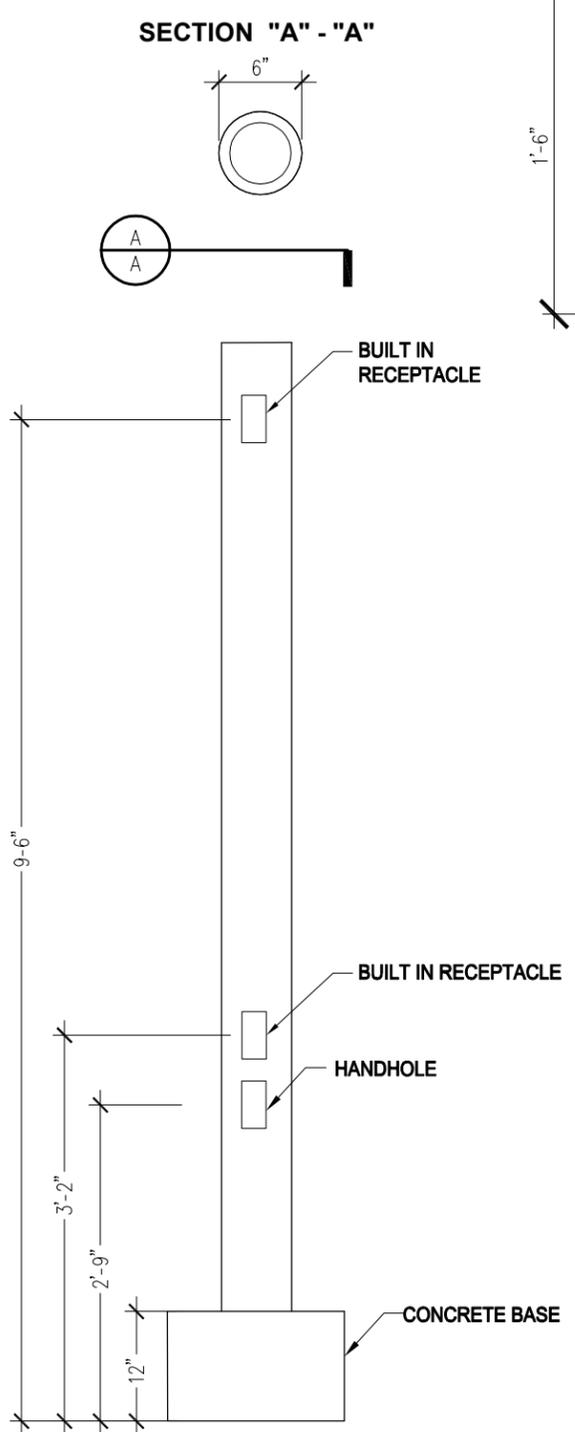
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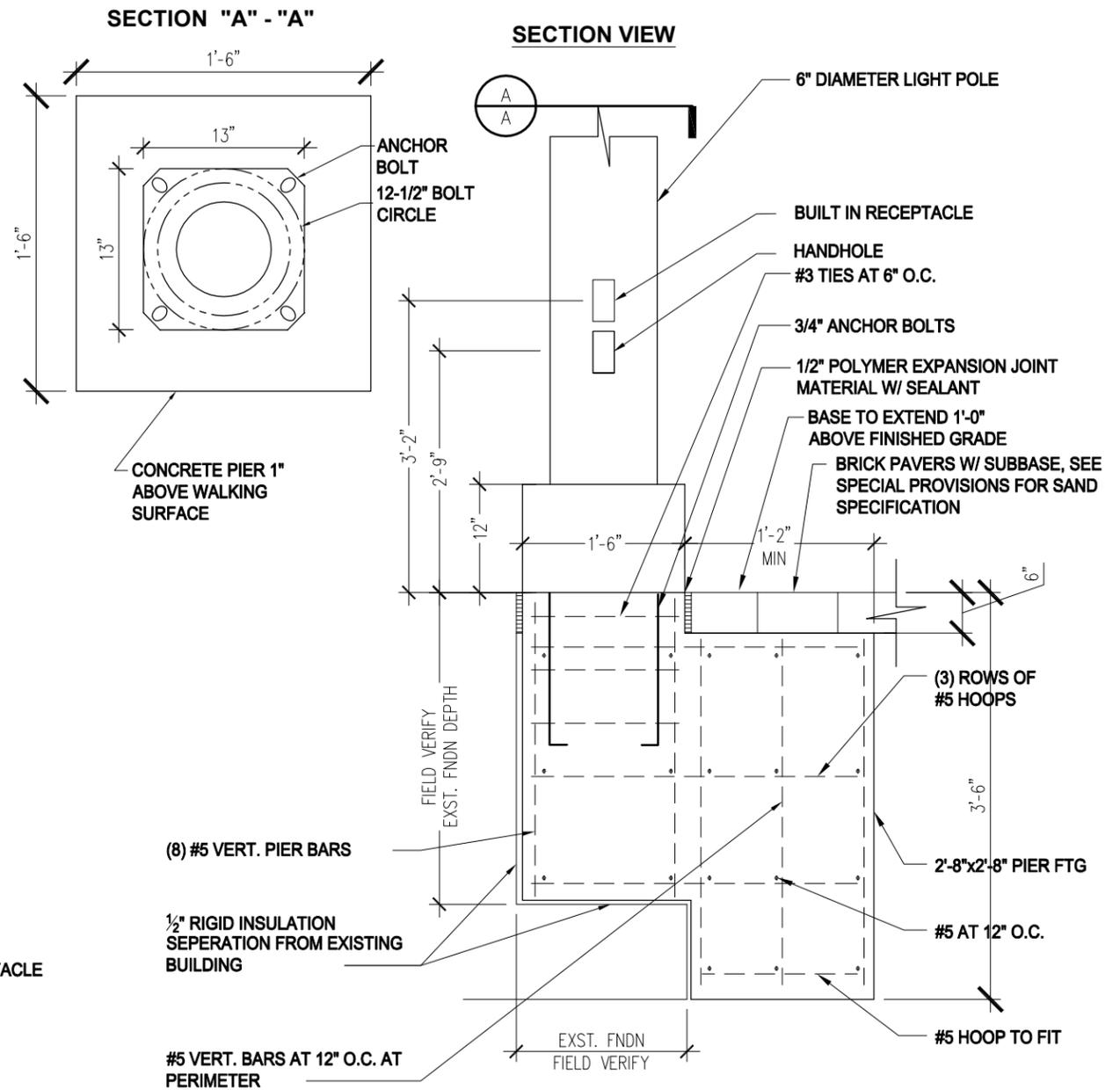


- NOTES:**
- REFER TO SPECIFICATIONS 2.01(C)(3) FOR CONCRETE TYPE
 - POLE BASE SHALL BE CAST IN PLACE
 - VERIFY ANCHOR BOLT LOCATIONS WITH MANUFACTURER'S TEMPLATE AND CONDUIT ORIENTATION WITH EC PRIOR TO BASE CONSTRUCTION. EC RESPONSIBLE FOR COORDINATING POLE MFR ANCHOR BOLTS AND MOUNTING BRACKET.

1 FLUSH POLE BASE DETAIL
NOT TO SCALE



2 LIGHT POLE ELEVATION
NOT TO SCALE

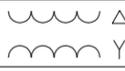


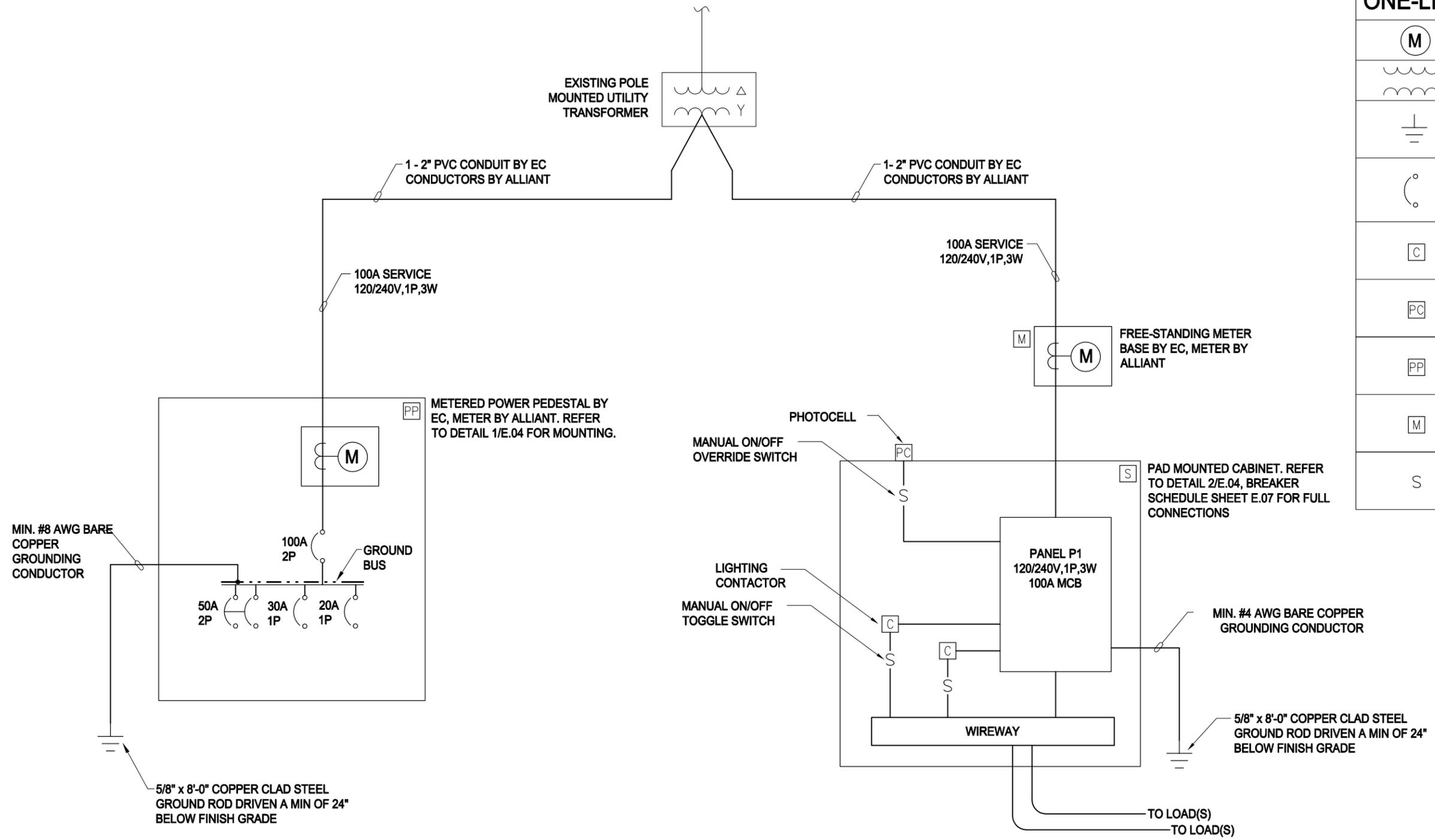
- NOTES:**
- REFER TO SPECIFICATIONS 2.01(C)(3) FOR CONCRETE TYPE
 - POLE BASE SHALL BE CAST IN PLACE
 - PROVIDE HAND HOLE AND CONDUIT AS SHOWN IN DETAIL 1

3 EXTENDED FLUSH POLE BASE DETAIL
NOT TO SCALE

NO.	REVISION DESCRIPTION	APPROVED	DATE

ONE-LINE SYMBOL LEGEND

	METER
	UTILITY TRANSFORMER
	EARTH GROUND
	CIRCUIT BREAKER
	LIGHTING CONTACTOR. REFER TO SYMBOL LEGEND SHEET E.04
	PHOTOCELL. REFER TO SYMBOL LEGEND SHEET E.04
	METERED POWER PEDESTAL. REFER TO SYMBOL LEGEND SHEET E.04
	FREE STANDING METER PEDESTAL. REFER TO SYMBOL LEGEND SHEET E.04
	ON/OFF TOGGLE SWITCH WITH PILOT LIGHT. REFER TO SYMBOL LEGEND SHEET E.04



1 PARTIAL ONE-LINE DIAGRAM

NOT TO SCALE

- NOTE:**
- THIS DIAGRAM IS INTENDED TO BE A SCHEMATIC OVERVIEW OF SYSTEM INTERCONNECTIONS AND SHALL NOT BE USED TO DETERMINE EXACT QUANTITIES OR TYPES OF MATERIALS

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NO.	REVISION DESCRIPTION	APPROVED	DATE

CIRCUIT BREAKER SCHEDULE

P1

LOCATION: PAD MOUNTED CABINET

120/240 VOLTS 1 PHASE 3 WIRE 100 AMPERES

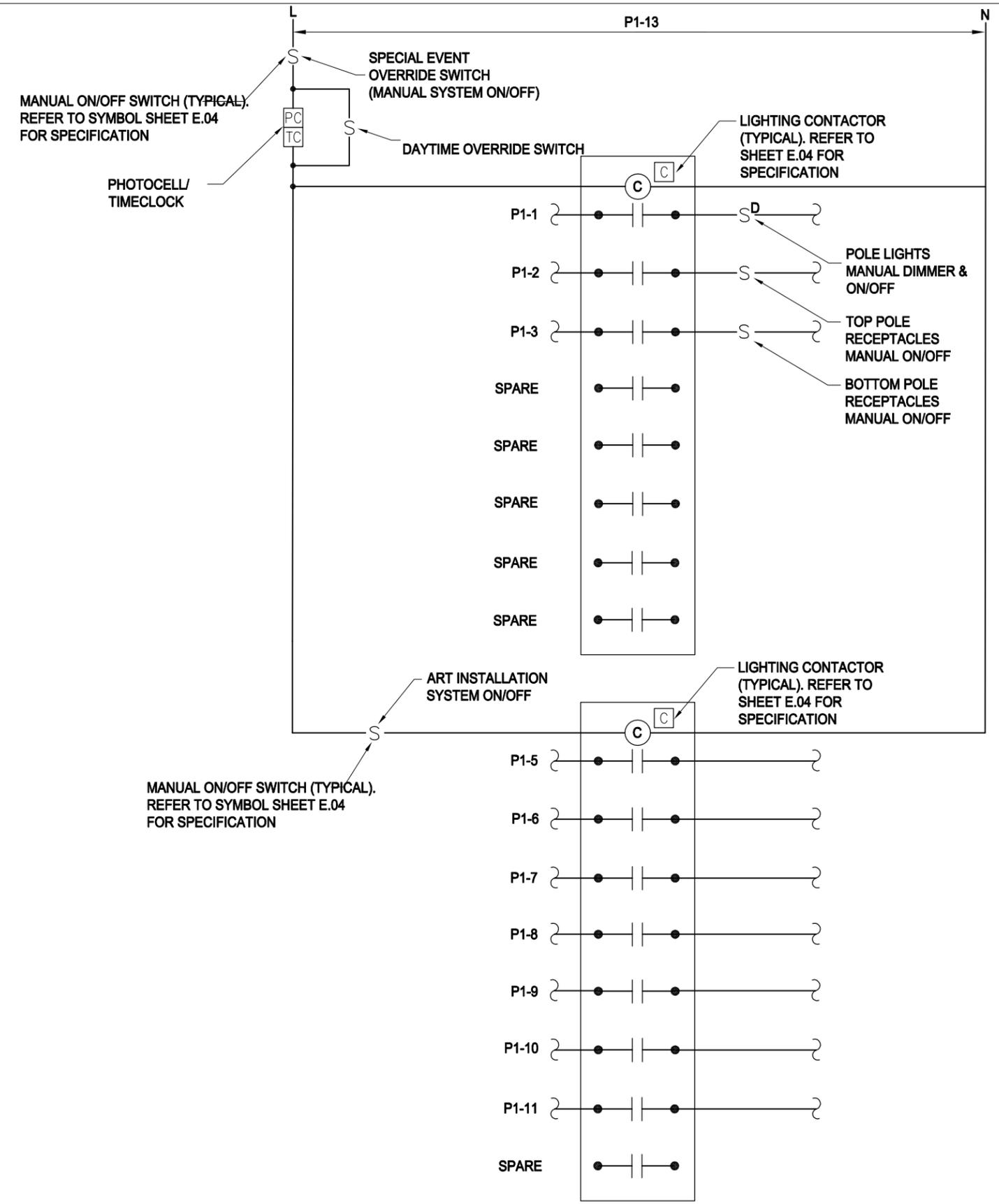
MAIN DISCONNECT: 100A MCB TYPE: SQUARE D MOUNTING: INSIDE CONTROL CABINET AIC: 10k

REMARKS:

LOAD: PHASE A 3.49 kVA PHASE B 3.76 kVA TOTAL 7.25kVA

LOAD DESCRIPTION	CKT NO.	O.C.P. DEVICE	kVA LOAD	PH.	kVA LOAD	O.C.P. DEVICE	CKT NO.	LOAD DESCRIPTION
L1 FIXTURES	1	20A/1	.23	A	1.26	20A/1	2	TOP POLE RECEPTACLES
BOTTOM POLE RECEPTACLES	3	20A/1	1.26	B	.50	20A/1	4	ART INSTALLATION E
ART INSTALLATION A	5	20A/1	.50	A	.50	20A/1	6	ART INSTALLATION F
ART INSTALLATION B	7	20A/1	.50	B	.50	20A/1	8	ART INSTALLATION G
ART INSTALLATION C	9	20A/1	.50	A	.50	20A/1	10	ART INSTALLATION H
ART INSTALLATION D	11	20A/1	.50	B	0.0	20A/1	12	SPARE
SYSTEM CONTROL CIRCUIT	13	20A/1	0.0	A	0.0	20A/1	14	SPARE
SPARE	15	20A/1	0.0	B	0.0	- - -	16	SPACE
SPARE	17	20A/1	0.0	A	0.0	- - -	18	SPACE

- NOTES:**
- ALL 20A, 1P CIRCUITS SHALL BE COMPRISED OF 2-#10 AWG + 1 - #12GND
 - EC SHALL VERIFY THAT CIRCUITS RUNNING 150FT OR MORE DO NOT EXCEED NEC VOLTAGE DROP REQUIREMENTS
 - EC SHALL PROVIDED A PRINTED AND LAMINATED CIRCUIT DIRECTORY UPON COMPLETION OF INSTALLATION
 - EC SHALL PROVIDED LABELS ON ALL TOGGLE SWITCHES INDICATING DESCRIPTION OF CIRCUIT CONTENTS: i.e. "CIRCUIT #3: POLE LIGHTS"
 - ALL CIRCUITS SHALL HAVE DEDICATED NEUTRALS

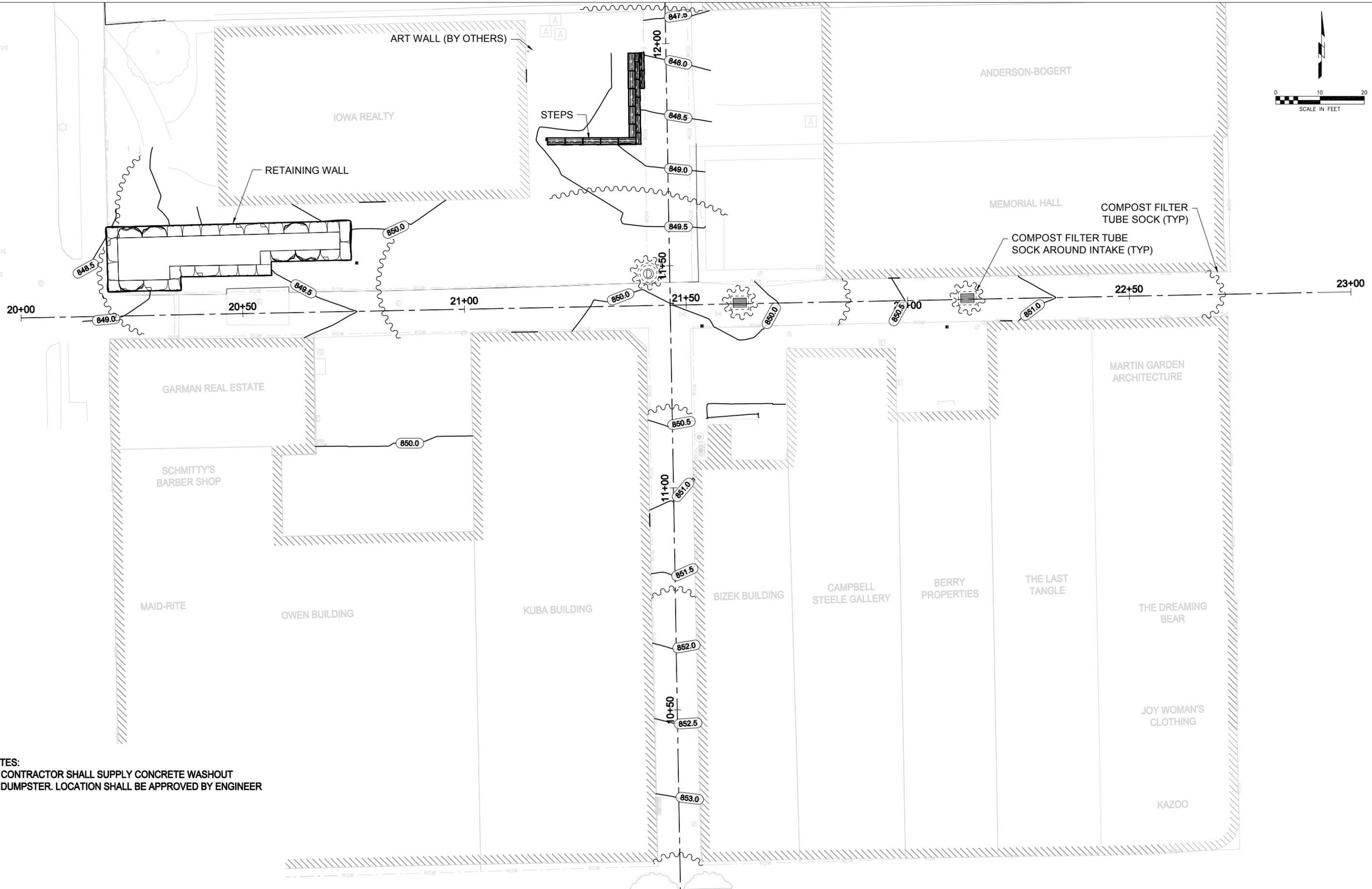


1 SYSTEM CONTROL DETAIL
NOT TO SCALE

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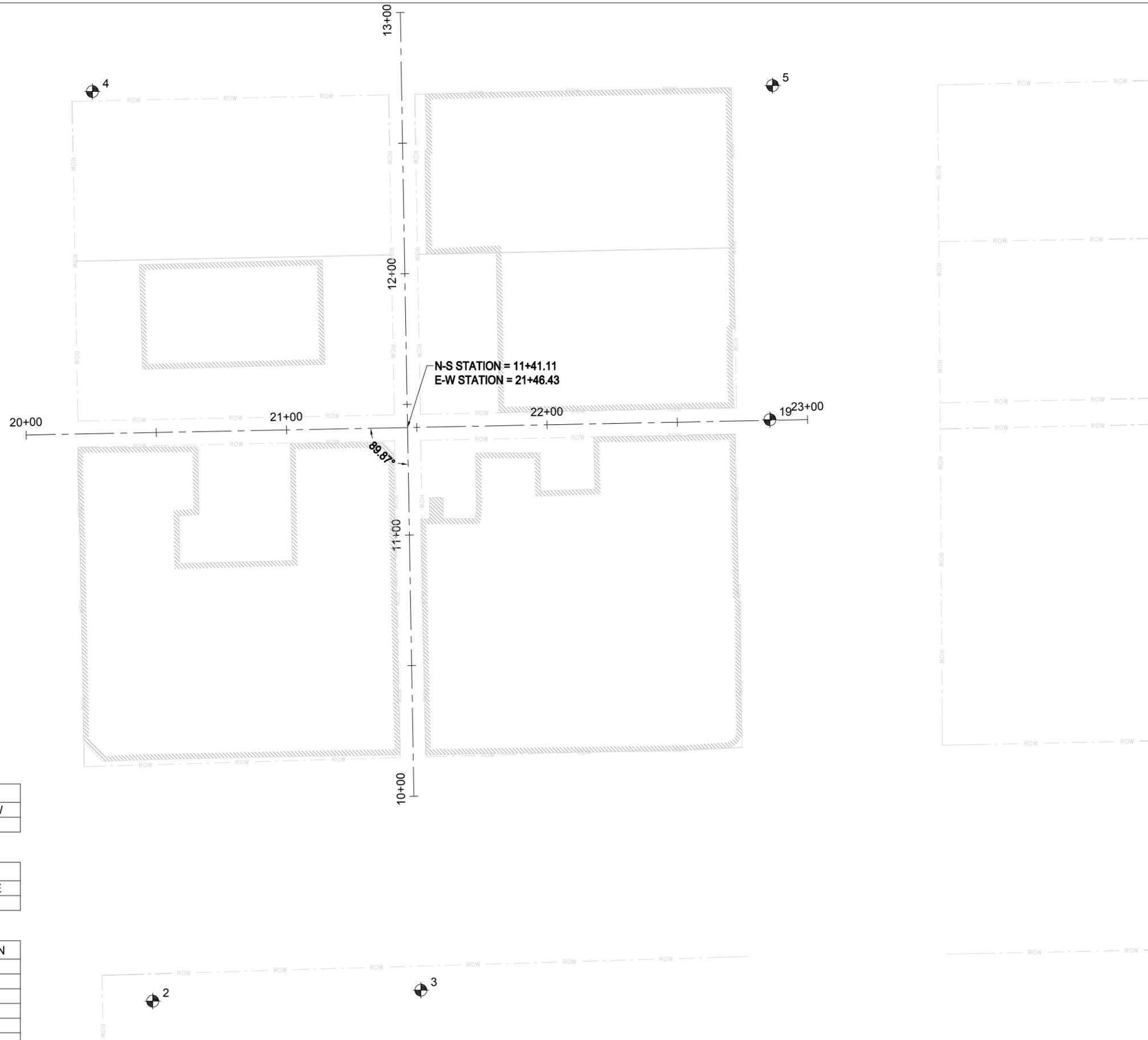
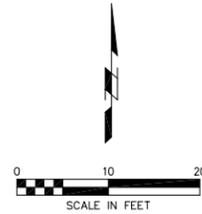
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NOTES:
 CONTRACTOR SHALL SUPPLY CONCRETE WASHOUT DUMPSTER. LOCATION SHALL BE APPROVED BY ENGINEER

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NORTH-SOUTH ALLEY CENTERLINE

PI STATION	NORTHING	EASTING	DISTANCE	DIRECTION
10+00.00	3481014.6476	5437750.2765	300.00	N 00°59'55" W
13+00.00	3481314.6020	5437745.0488		

EAST-WEST ALLEY CENTERLINE

PI STATION	NORTHING	EASTING	DISTANCE	DIRECTION
20+00.00	3481152.8655	5437601.4163	300.00'	N 88°52'31" E
23+00.00	3481158.7539	5437901.3585		

CONTROL POINTS

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	5437546.3910	3481150.3300	848.455	CUT X
2	5437650.0380	3480936.2090	851.054	PK NAIL
3	5437752.9630	3480940.3980	852.405	PK NAIL
4	5437626.8630	3481284.3380	844.411	CUT X
5	5437887.9110	3481286.6480	846.008	CUT X
19	5437886.9130	3481158.7460	850.390	PK NAIL

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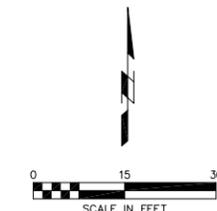
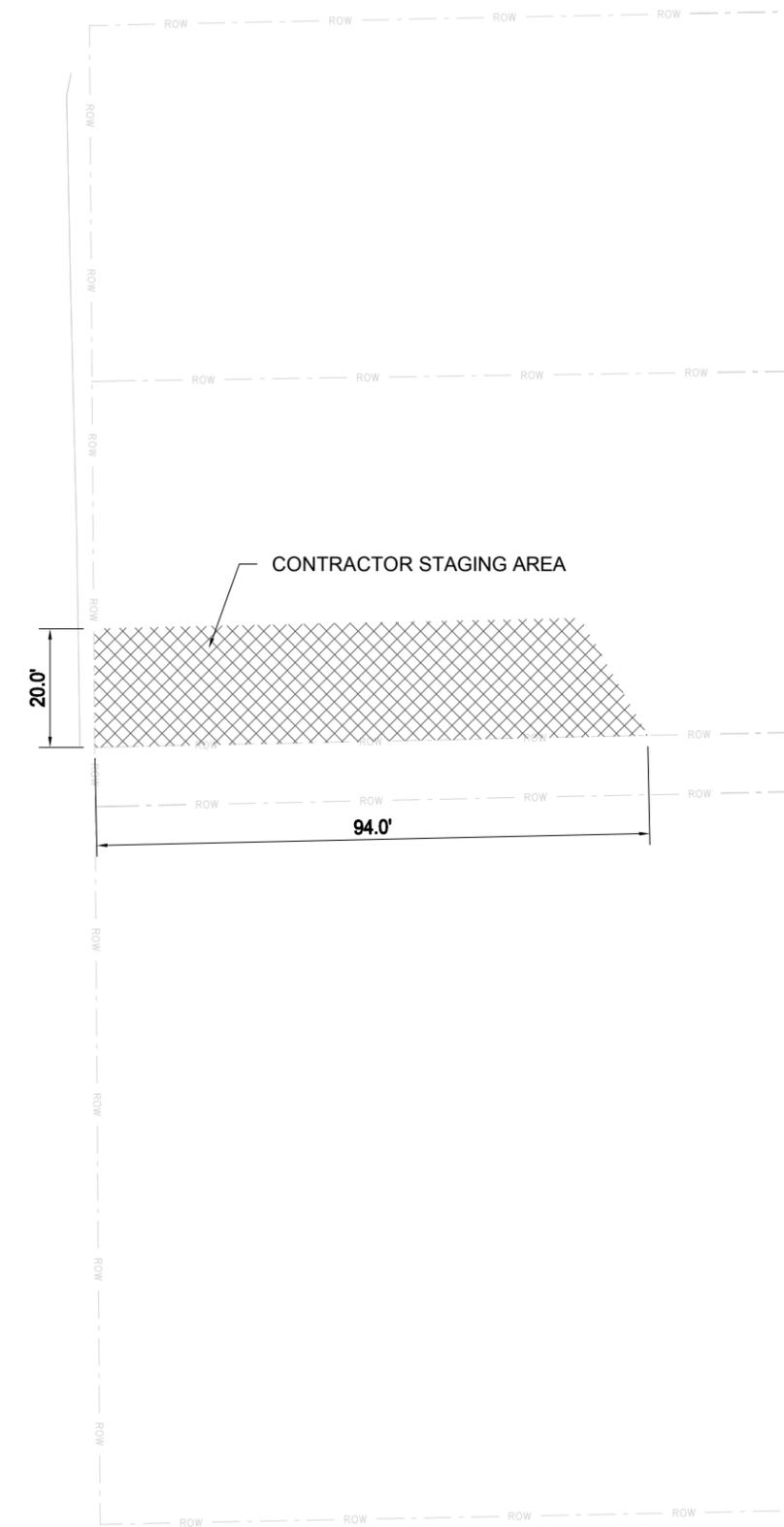
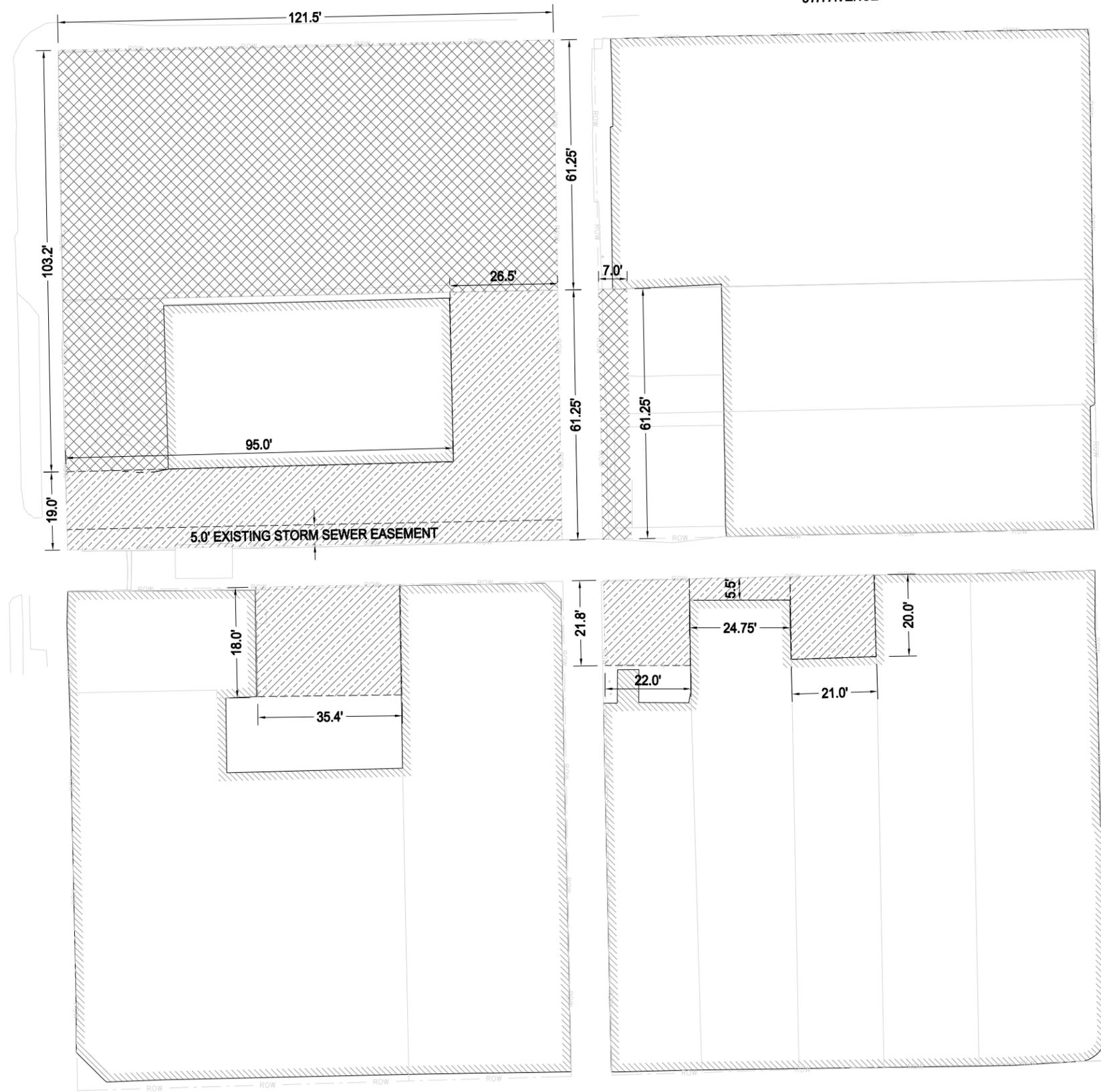
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10TH STREET

8TH AVENUE

11TH STREET

7TH AVENUE



LEGEND

-  PUBLIC ACCESS EASEMENT
-  TEMPORARY CONSTRUCTION EASEMENT

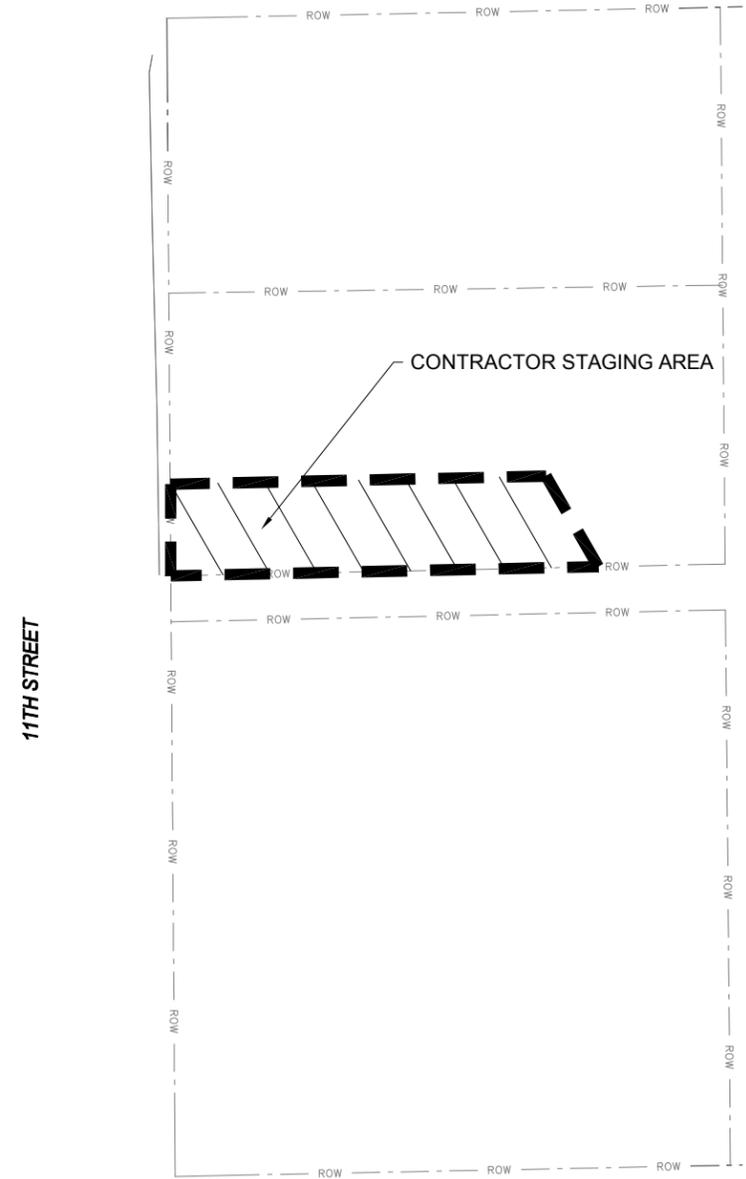
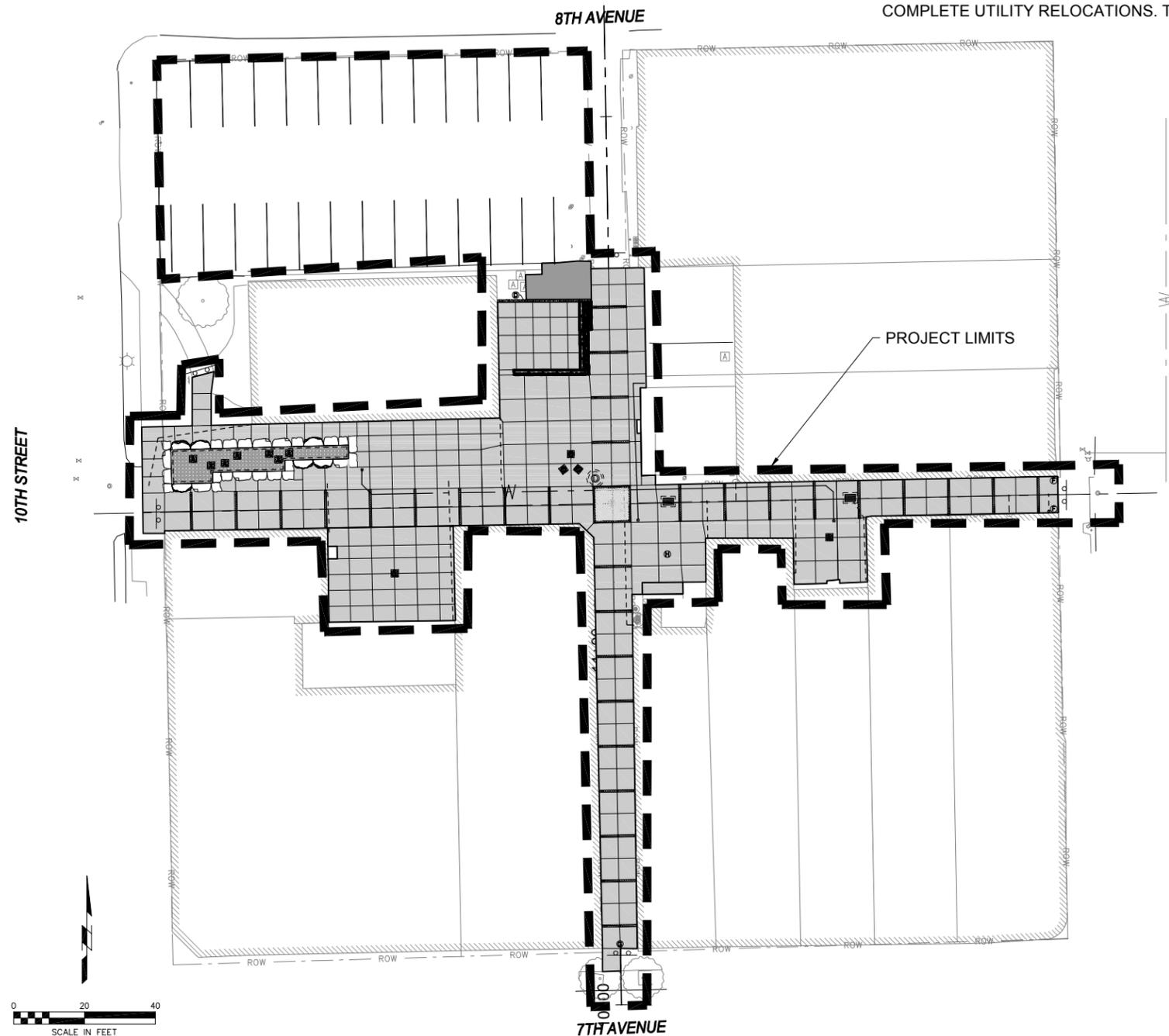
NO.	REVISION DESCRIPTION	APPROVED	DATE

GENERAL STAGING REQUIREMENTS

- MAINTAIN ACCESS TO THE EXTENT PRACTICAL TO ALL PROPERTIES.
- TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH MUTCD, CEDAR RAPIDS METROPOLITAN AREA STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS STANDARD DETAILS SECTION 01200 AND THE 'J' SHEETS FOR APPROPRIATE TRAFFIC CONTROL REQUIREMENTS. USE 1200-061 FOR SIDEWALK CLOSURES.

STAGING NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WHEN ALLEY CLOSURES WILL OCCUR.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FURNISH, ERECT, AND MAINTAIN THE SIGNAGE OF THE DURATION OF THE PROJECT. PROJECT SIGNAGE IS REQUIRED AND SHALL BE CONSTRUCTED, ERECTED, MAINTAINED, AND REMOVED IN ACCORDANCE WITH CONTRACT DOCUMENTS AND CONSIDERED PART OF THIS ITEM.
3. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO USE CONSTRUCTION FENCING TO CLOSE THE SITE ALL TRAFFIC AFTER WORKING HOURS AND ON WEEKENDS
4. CONTRACTOR SHALL USE PARKING AREA ACROSS 11TH STREET IN ALLEY AS SHOWN BELOW FOR STAGING AND EQUIPMENT STORAGE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE DONE TO THIS AREA INCLUDING BUT NOT LIMITED TO REPAINTING OF PARKING STALLS. STAGING AREA EXCLUDES HANDICAP PARKING STALLS.
5. THE WESTERLY 1/3 OF THE FIRST PRESBYTERIAN CHURCH PARKING LOT LOCATED AT 889 11TH STREET SHALL BE USED AS VEHICLE PARKING FOR WORKERS. WHEN PARKING AT THIS LOCATION IS UNAVAILABLE, CONTRACTOR PARKING SHALL BE NORTH OF 10TH AVENUE OR SOUTH OF 7TH AVENUE TO MINIMIZE IMPACTS TO ADJACENT BUSINESSES. ANY CHANGES TO CONTRACTOR VEHICLE PARKING WILL BE DISCUSSED AT THE PRECONSTRUCTION MEETING.
6. CONTRACTOR SHALL COORDINATE GAS VALVE ADJUSTMENT WITH MIDAMERICAN ENERGY, SEE A.02 FOR CONTACT INFORMATION.
7. CONTRACTOR SHALL COORDINATE 2 VAULT ADJUSTMENTS WITH CENTURY-LINK, SEE A.02 FOR CONTACT INFORMATION. CENTURY-LINK WILL COMPLETE THE WORK.
8. CONTRACTOR SHALL PROVIDE ALLIANT ENERGY, MEDIACOM, AND IM ON COMMUNICATIONS 1 WEEK OF COMBINED TIME AFTER REMOVALS AND CONDUIT INSTALL TO COMPLETE UTILITY RELOCATIONS. THE TIMING OF THIS WORK SHALL BE DETERMINED AT THE PRECONSTRUCTION MEETING PRIOR TO WORK STARTING.



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STAGE 1

MAINTAIN ACCESS TO THE EXTENT PRACTICAL TO ALL PROPERTIES.

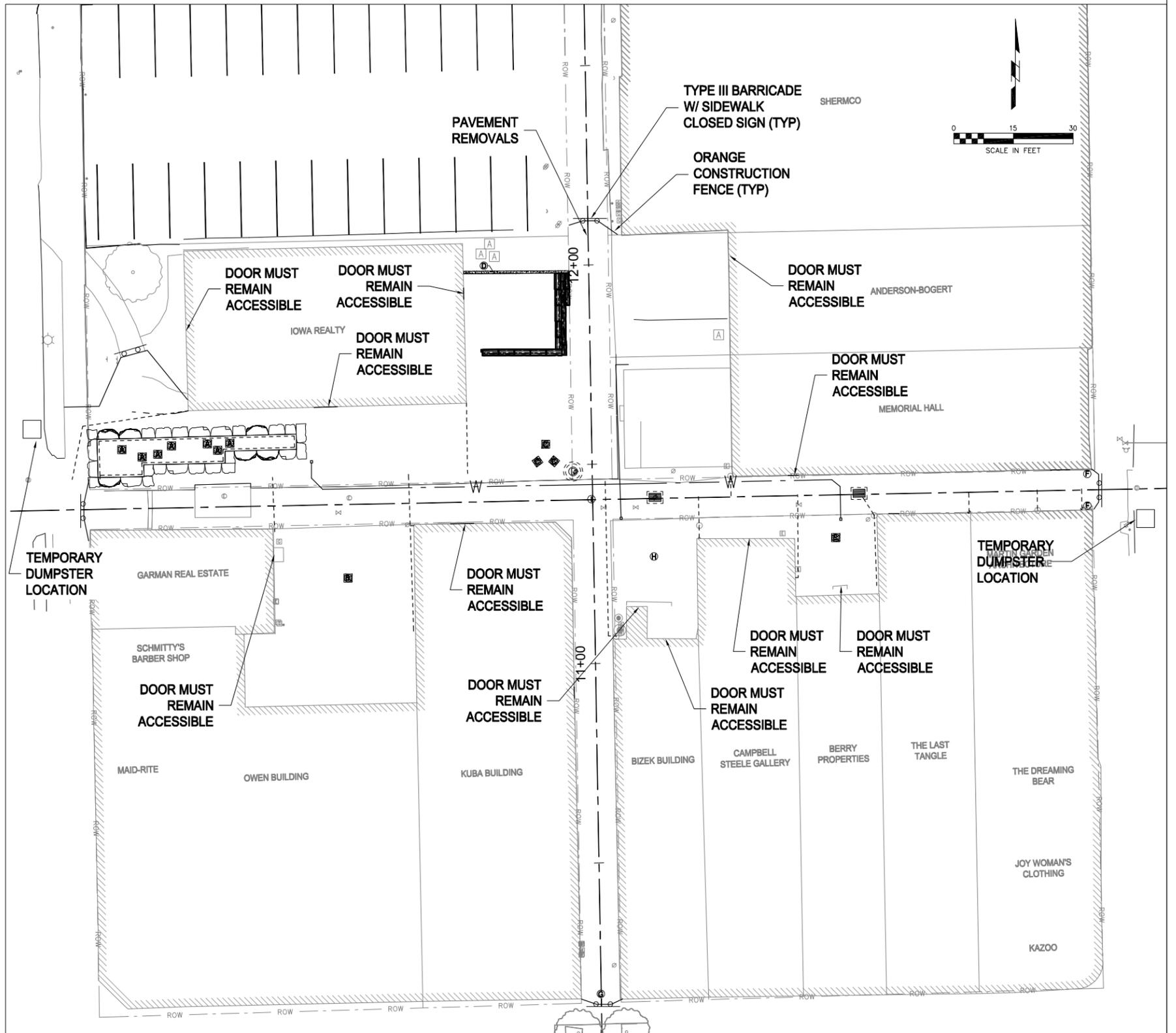
STAGE 1a -

- NOTIFY PROPERTY OWNERS, SEE CONTACT INFORMATION IN SPECIAL PROVISIONS. CITY SHALL NOTIFY POLICE, FIRE, AND EMS.
- COORDINATE CLOSURE OF PARKING LOT TO REMOVE EXISTING STRIPING AND RESTRIPE AS SHOWN ON SHEET P.01. WORK SHALL BE COMPLETED ON WEEKEND OR AFTER WORKING HOURS AS APPROVED BY THE PROPERTY OWNER.
- COORDINATE DUMPSTER RELOCATIONS WITH PROPERTY OWNER / TENANT TO BE OUTSIDE OF PROJECT LIMITS AS SHOWN IN STAGE 1b.

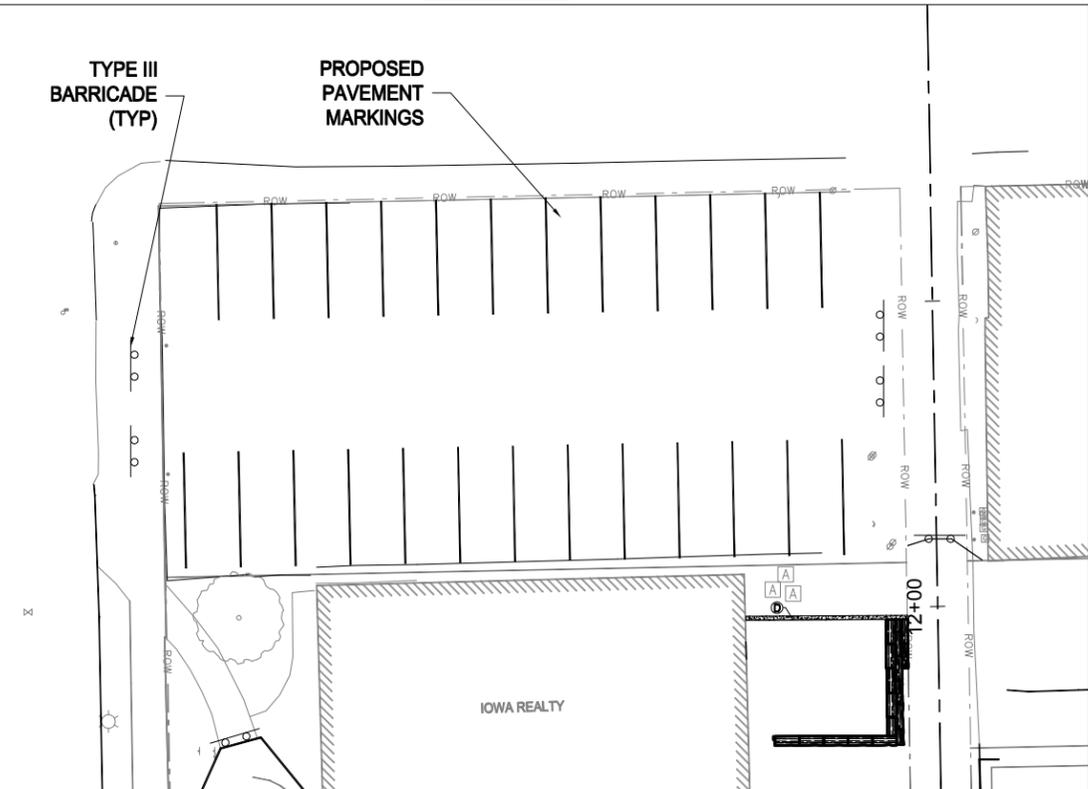
STAGE 1b -

- REMOVE EXISTING PAVING AS SHOWN IN THE 'R' SHEETS. COORDINATE 2 VAULT ADJUSTMENTS WITH CENTURY-LINK, SEE A.02.
- SIDEWALK REMOVALS NEAR THE ALLEYS AT 10TH STREET AND 7TH AVENUE SHALL BE CLOSED USING 1200-061. CONTRACTOR SHALL PAY CLOSE ATTENTION TO THESE AREAS TEMPORARY GRANULAR MUST BE USED TO REOPEN SIDEWALKS DURING NON-WORKING HOURS UNTIL SIDEWALK IS CONSTRUCTED.
- CONTRACTOR SHALL NOTIFY OWNER 3 DAYS PRIOR TO WORK ADJACENT TO A DOORWAY. WHEN DOORWAY CLOSURE IS NEEDED DURING PAVING OPERATIONS CONTRACTOR SHALL WORK CLOSELY WITH OWNER TO MINIMIZE DISRUPTION TO LESS THAN 5 DAYS.
- REMOVE EXISTING INTAKE AND MANHOLE.
- CONSTRUCTION NEW INTAKES AND MANHOLE AND ALL UNDERGROUND UTILITIES, CONDUITS, AND FOUNDATIONS.
- INSTALL IRRIGATION SYSTEM.
- ALLOW 1 WEEK FOR UTILITY COMPANIES TO COMPLETE RELOCATIONS.

STAGE 1b



STAGE 1a

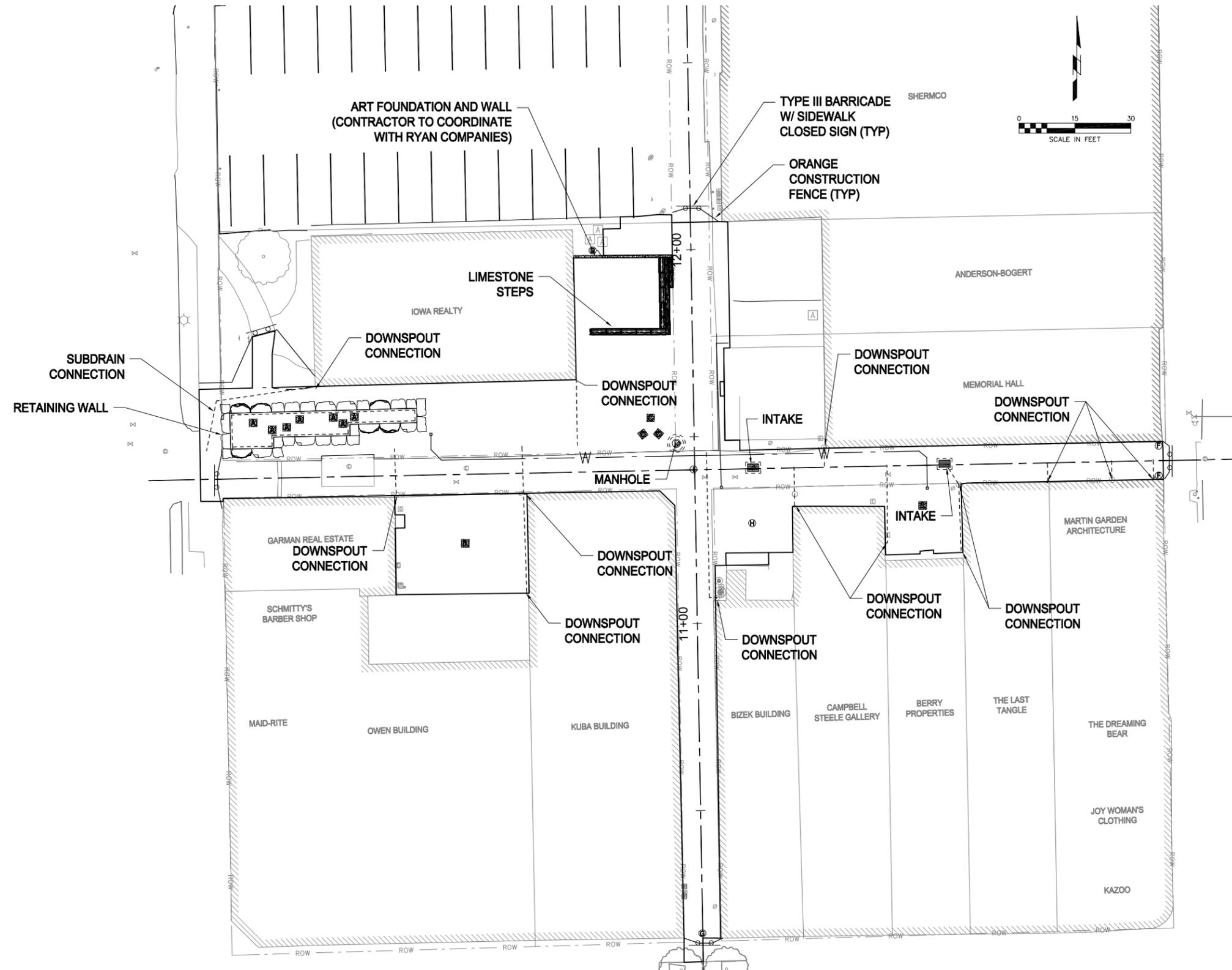


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STAGE 2

- CONSTRUCT ANY OTHER REMAINING UNDERGROUND IMPROVEMENTS.
- CONSTRUCT ART PIECE FOUNDATIONS. DESIGN TO BE COMPLETED BY OTHERS. CONTRACTOR TO COORDINATE CONSTRUCTION.
- NOTIFY PRIVATE PROPERTY OWNERS / TENANTS 1 WEEK PRIOR TO BEGINNING PAVEMENT IMPROVEMENTS ON PRIVATE PROPERTY.
- BEGIN PAVING IMPROVEMENTS. SEE 'K' SHEETS FOR GRADES.
- CONSTRUCT RETAINING WALLS AND LIMESTONE STEPS.

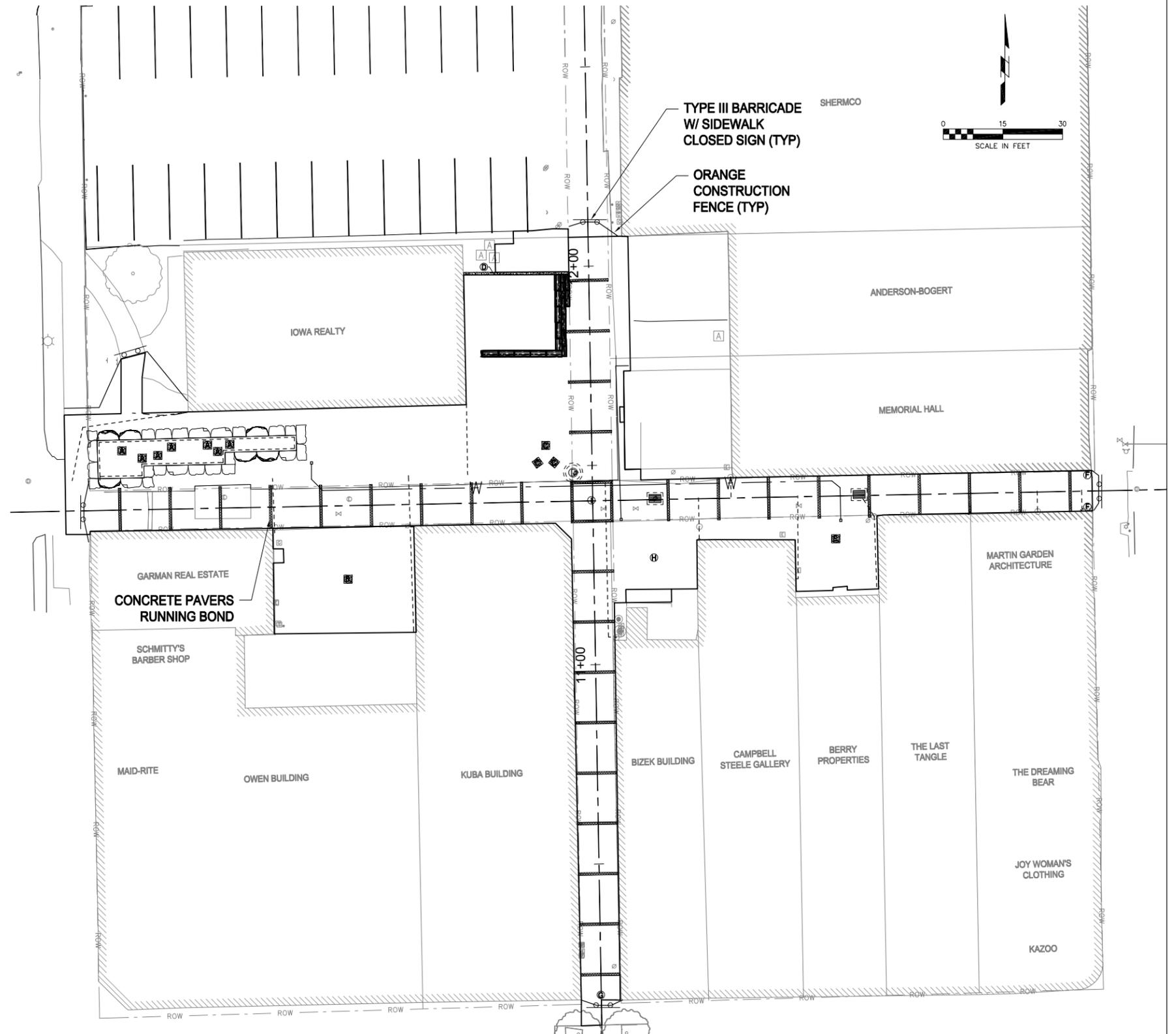


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STAGE 3

- FINISH PAVING IMPROVEMENTS.
- BEGIN PAVER CONSTRUCTION
- SET LIGHT POLES, POLES, AND OTHER ELECTRICAL ITEMS.

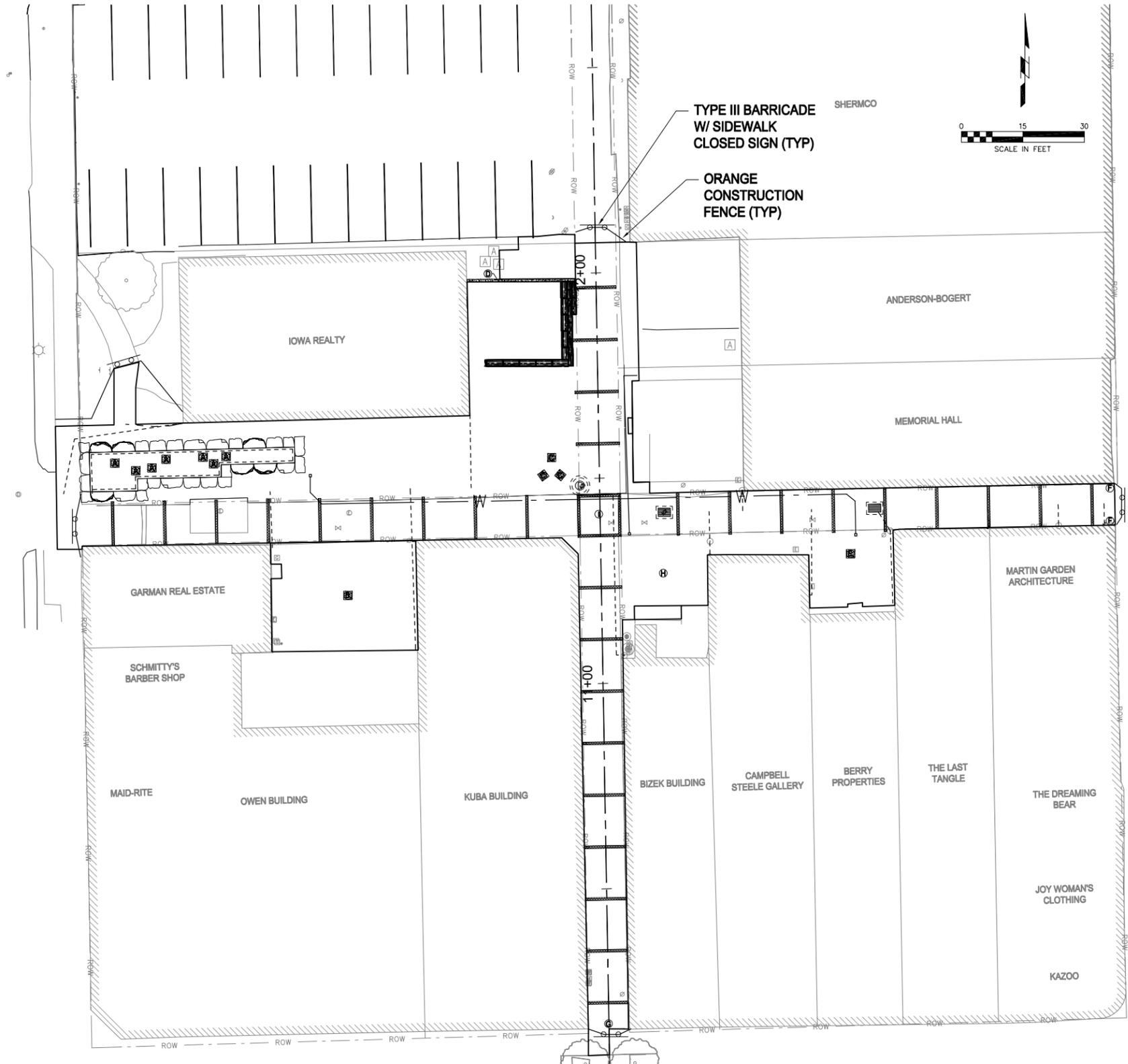


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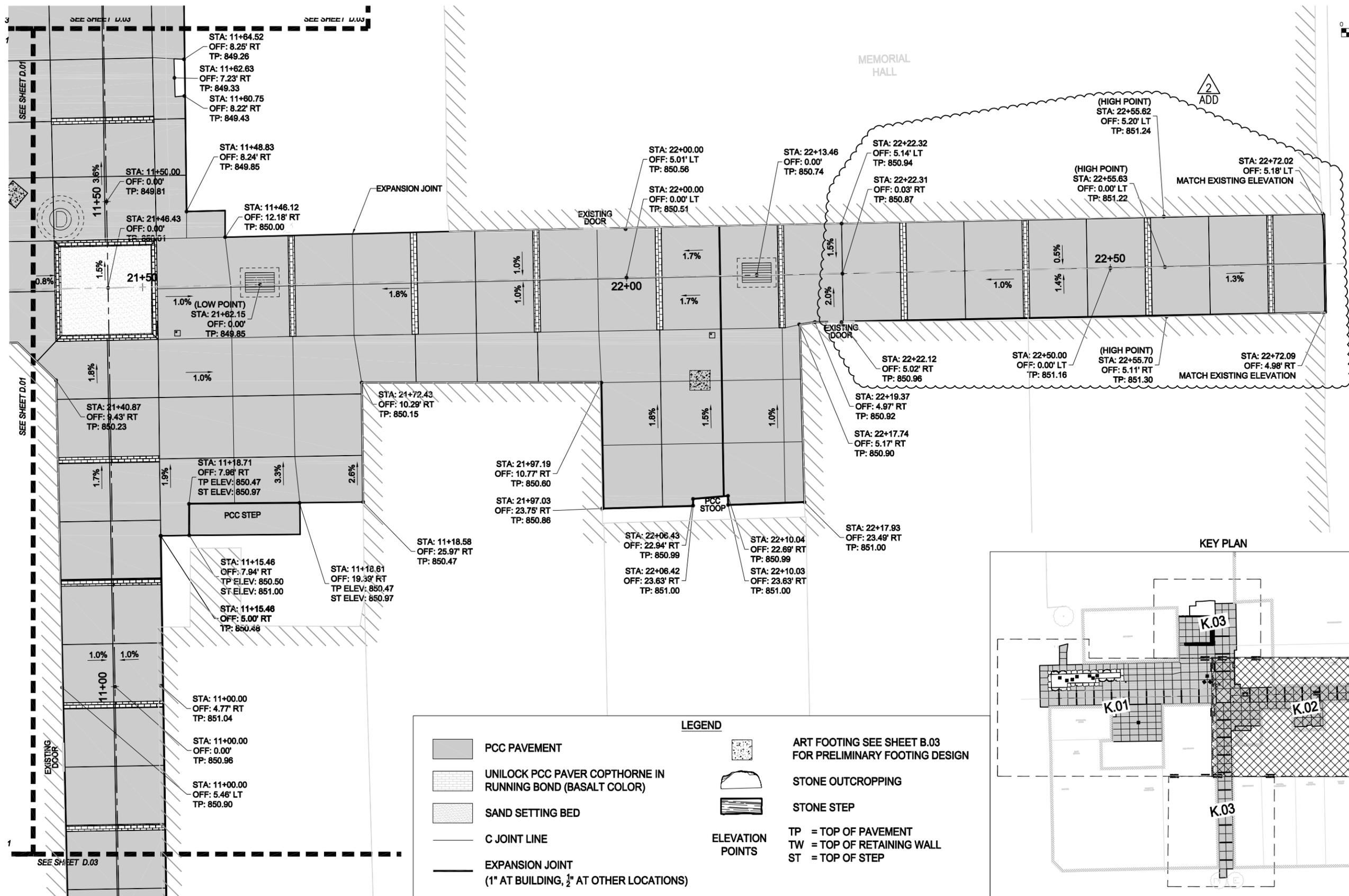
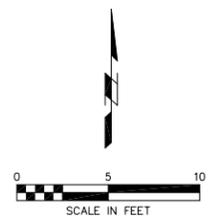
STAGE 4

- FINISH PAVER IMPROVEMENTS AND ELECTRICAL.
- FINISH ANY REMAINING ITEMS AND CLEAN UP SITE.
- COORDINATE RESETTING DUMPSTERS WITH PROPERTY OWNERS.

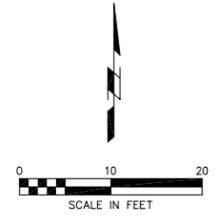
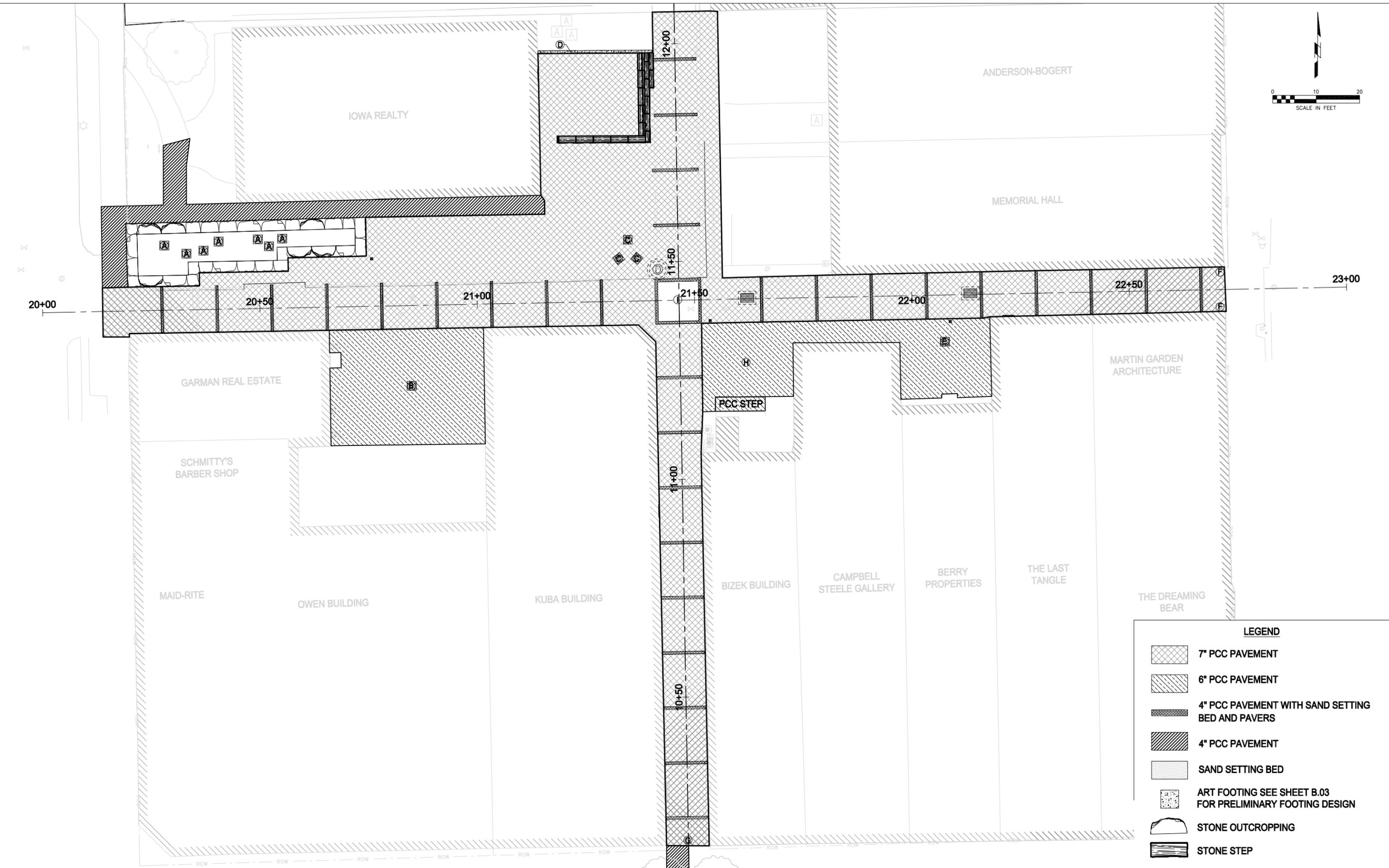


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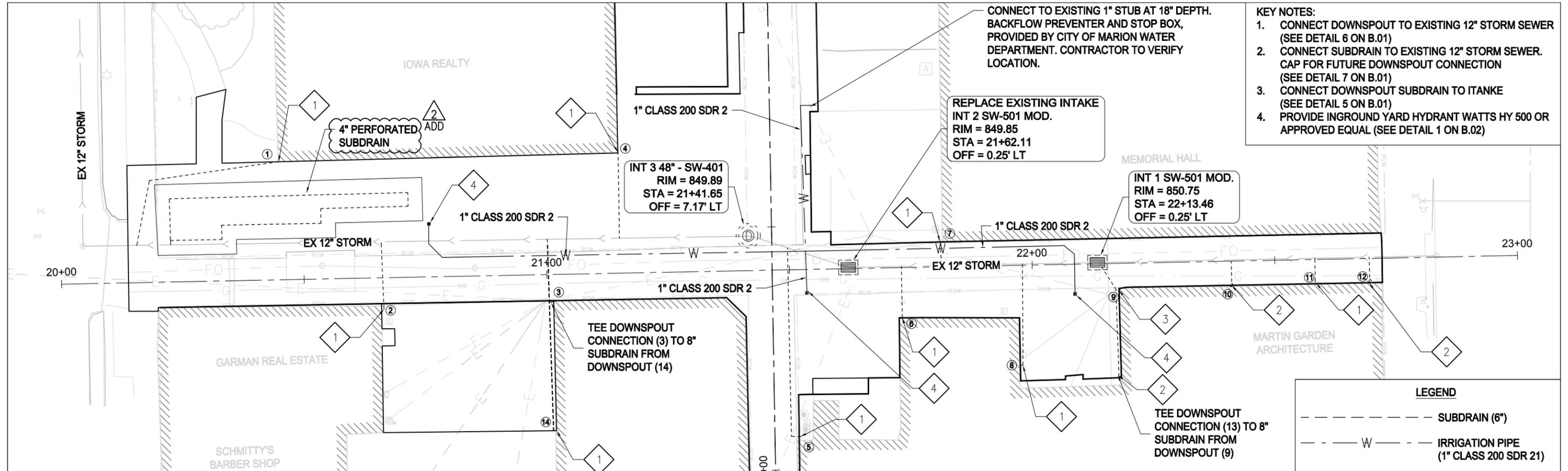
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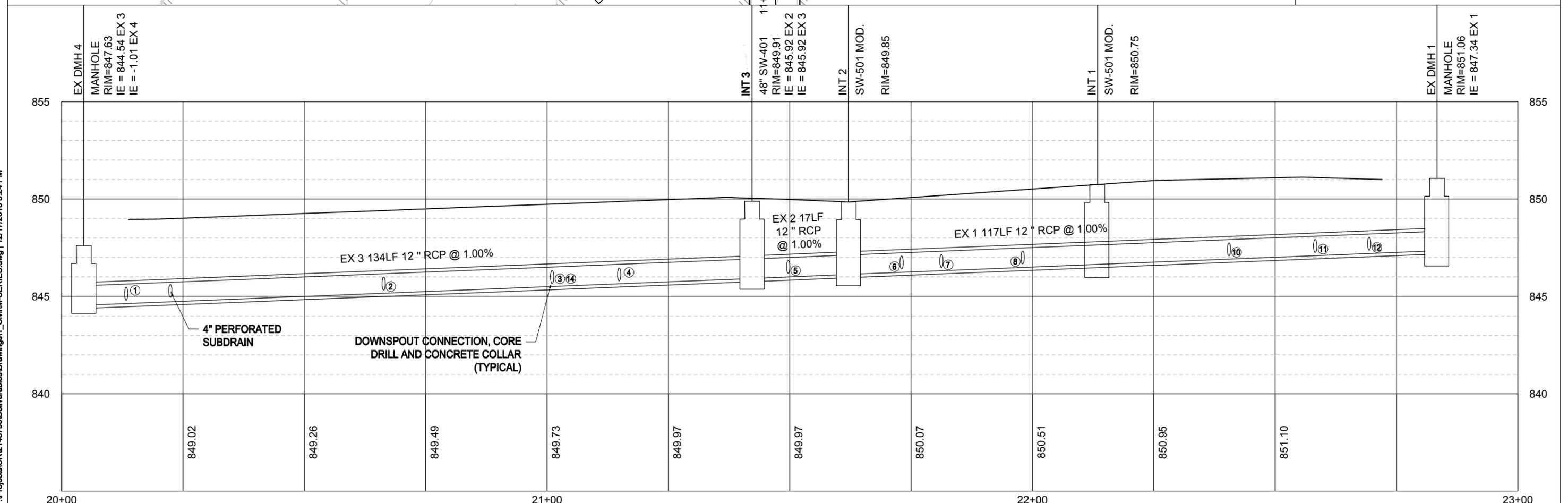
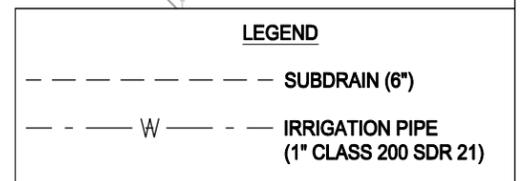
LEGEND

- 7" PCC PAVEMENT
- 6" PCC PAVEMENT
- 4" PCC PAVEMENT WITH SAND SETTING BED AND PAVERS
- 4" PCC PAVEMENT
- SAND SETTING BED
- ART FOOTING SEE SHEET B.03 FOR PRELIMINARY FOOTING DESIGN
- STONE OUTCROPPING
- STONE STEP

NO.	REVISION DESCRIPTION	APPROVED	DATE
1	Addendum	TPM	4/23/15



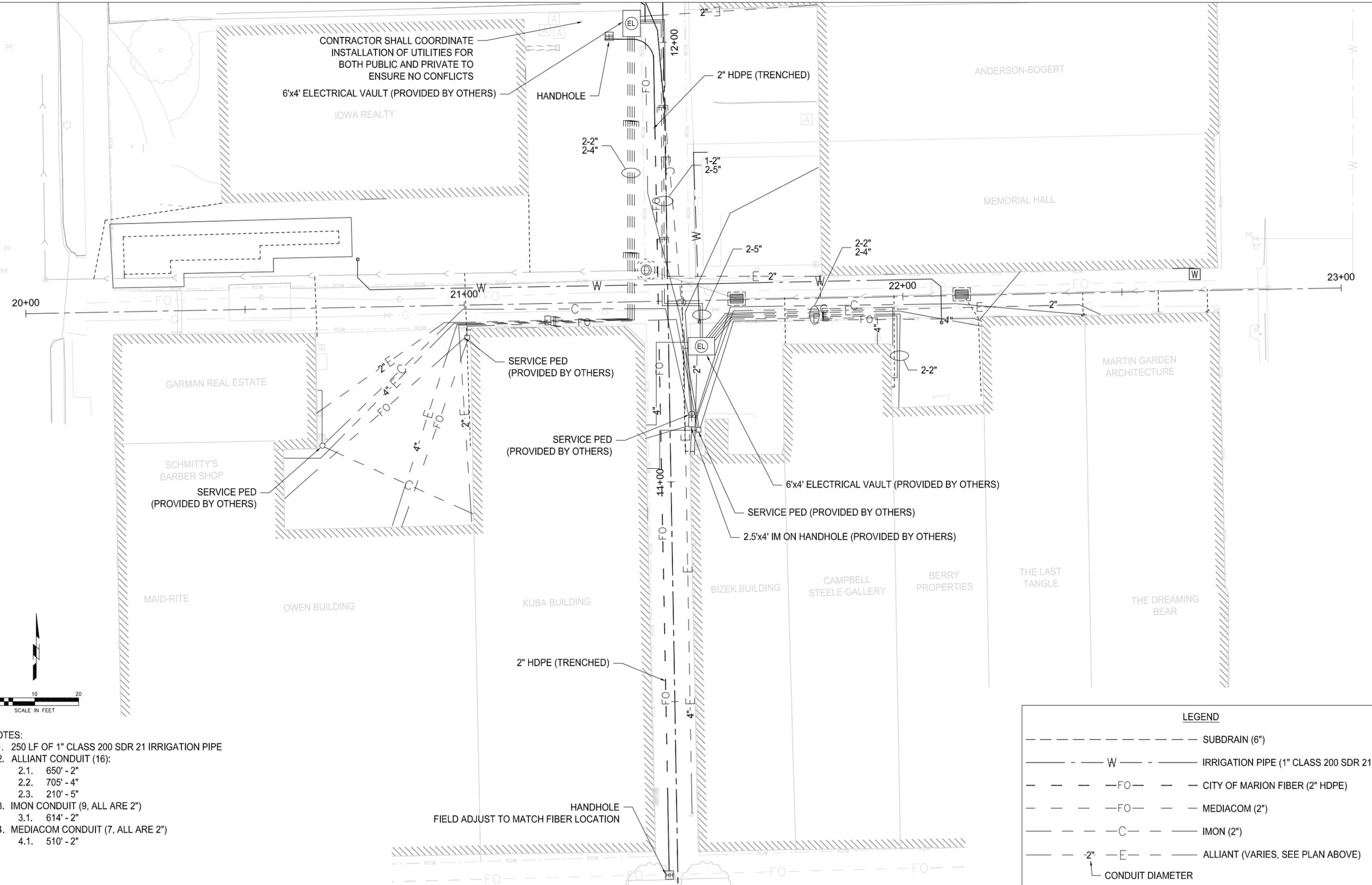
- KEY NOTES:**
1. CONNECT DOWNSPOUT TO EXISTING 12" STORM SEWER (SEE DETAIL 6 ON B.01)
 2. CONNECT SUBDRAIN TO EXISTING 12" STORM SEWER. CAP FOR FUTURE DOWNSPOUT CONNECTION (SEE DETAIL 7 ON B.01)
 3. CONNECT DOWNSPOUT SUBDRAIN TO ITANKE (SEE DETAIL 5 ON B.01)
 4. PROVIDE INGROUND YARD HYDRANT WATTS HY 500 OR APPROVED EQUAL (SEE DETAIL 1 ON B.02)



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ADDENDUM 2		CBD	12.16.15
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CONTRACTOR SHALL COORDINATE
INSTALLATION OF UTILITIES FOR
BOTH PUBLIC AND PRIVATE TO
ENSURE NO CONFLICTS

6'x4' ELECTRICAL VAULT (PROVIDED BY OTHERS)

IOWA REALTY

GARMAN REAL ESTATE

SCHMITTY'S
BARBER SHOP

SERVICE PED
(PROVIDED BY OTHERS)

MAID-RITE

OWEN BUILDING

SERVICE PED
(PROVIDED BY OTHERS)

SERVICE PED
(PROVIDED BY OTHERS)

KUBA BUILDING

2" HDPE (TRENCHED)

HANDHOLE
FIELD ADJUST TO MATCH FIBER LOCATION

BIZEK BUILDING

CAMPBELL
STEELE GALLERY

BERRY
PROPERTIES

THE LAST
TANGLE

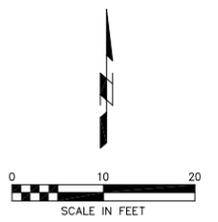
THE DREAMING
BEAR

ANDERSON-BOGERT

MEMORIAL HALL

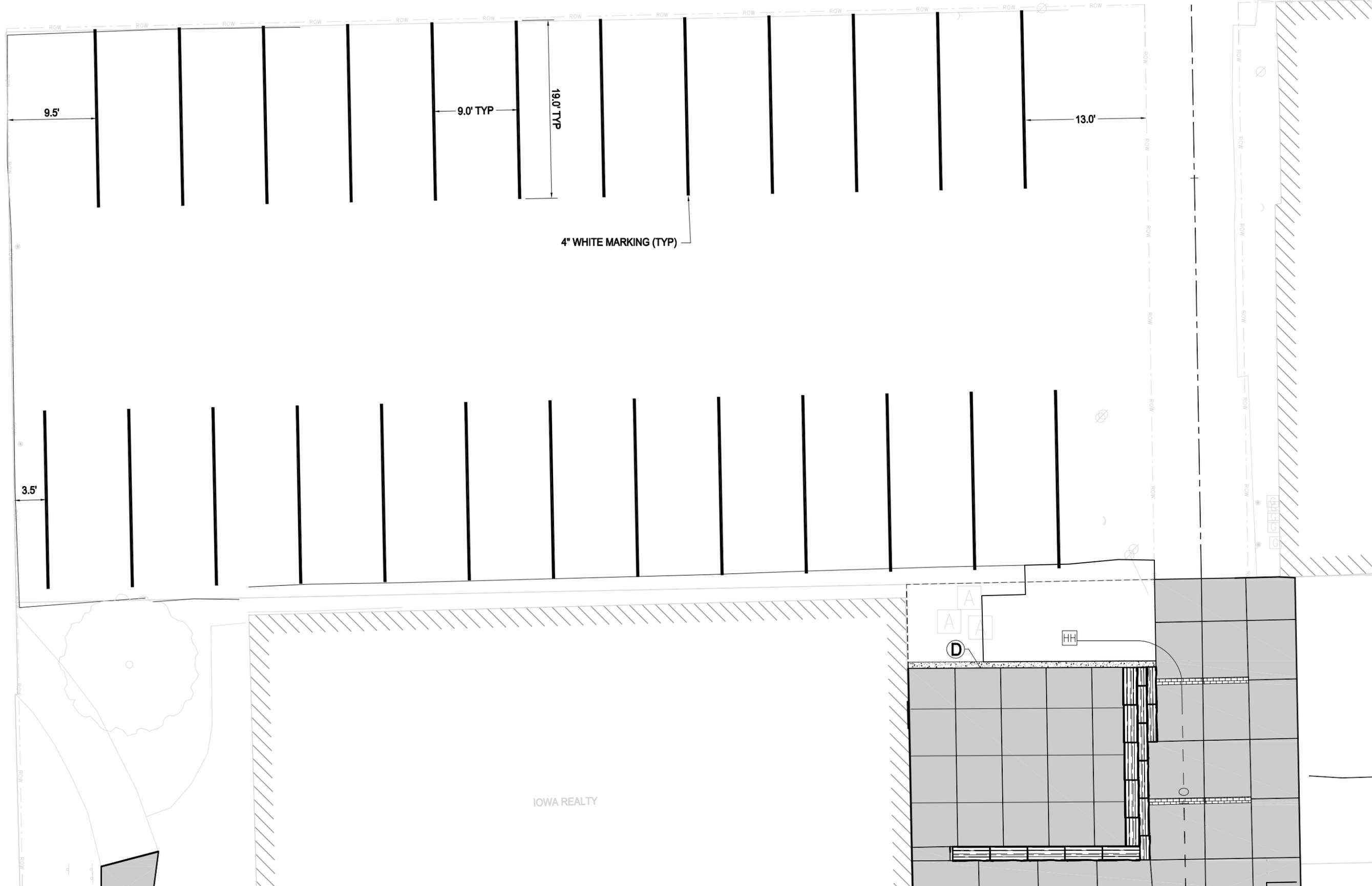
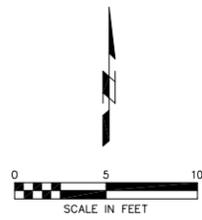
MARTIN GARDEN
ARCHITECTURE

- NOTES:
1. 250 LF OF 1" CLASS 200 SDR 21 IRRIGATION PIPE
 2. ALLIANT CONDUIT (16):
 - 2.1. 650' - 2"
 - 2.2. 705' - 4"
 - 2.3. 210' - 5"
 3. IMON CONDUIT (9, ALL ARE 2")
 - 3.1. 614' - 2"
 4. MEDIACOM CONDUIT (7, ALL ARE 2")
 - 4.1. 510' - 2"



LEGEND	
---	SUBDRAIN (6")
--- W ---	IRRIGATION PIPE (1" CLASS 200 SDR 21)
--- FO ---	CITY OF MARION FIBER (2" HDPE)
--- FO ---	MEDIACOM (2")
--- C ---	IMON (2")
--- 2" E ---	ALLIANT (VARIES, SEE PLAN ABOVE)
---	CONDUIT DIAMETER

NO.	REVISION DESCRIPTION	APPROVED	DATE
1	Addendum	TPM	4/23/15

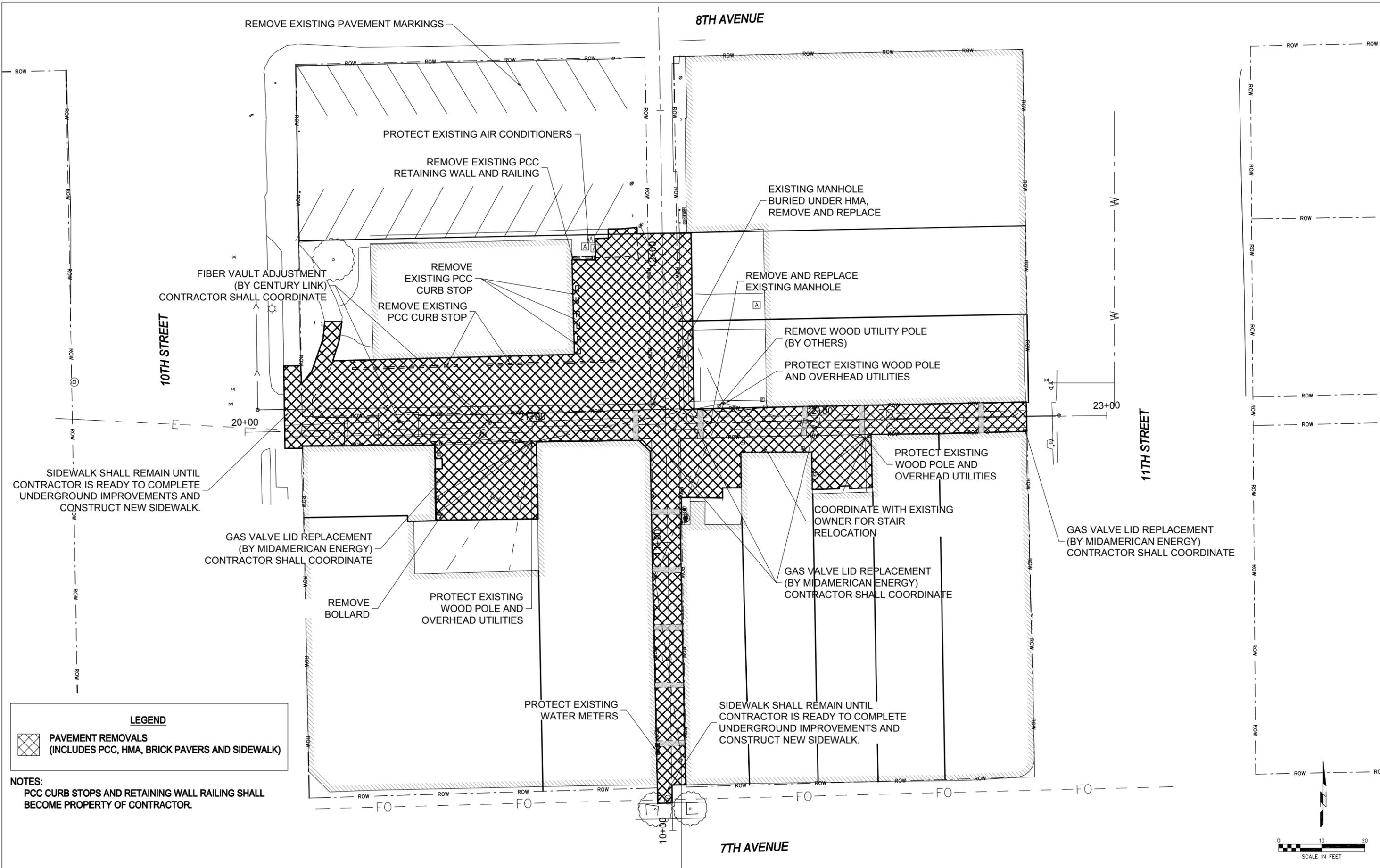


IOWA REALTY

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