



## **REQUEST FOR BIDS**

Airport Entryway Landscape Reconstruction

**REQUEST NUMBER:** 2305

**DUE DATE:** February 3, 2023

**DUE TIME:** 2:00 pm (local)

Contents

INTRODUCTION ..... 2

SOLICITATION AND PROJECT SCHEDULE ..... 2

SITE INSPECTION ..... 2

PROJECT OVERVIEW..... 3

    Work Scope ..... 3

    Special Attention to ..... 3

REQUESTS FOR INFORMATION..... 4

CONSTRUCTION..... 4

BID SUBMISSION ..... 5

TERMS AND CONDITIONS ..... 6

MICHIGAN FREEDOM OF INFORMATION ACT ..... 7

EVALUATION, STATUS UPDATES/AWARD NOTIFICATION ..... 8

EXHIBITS ..... 9

    Exhibit A: Landscape Drawings ..... 9

    Exhibit B: Bid Form ..... 10

## INTRODUCTION

The Gerald R. Ford International Airport Authority (GFIAA) is requesting bids for the removal of existing landscape and installation of new landscape formations at the entrance of the Gerald R. Ford International Airport at the intersection of Patterson Avenue and 44<sup>th</sup> Street. The goal for this project is to improve the overall visual appeal of the Gerald R. Ford International Airport to all visiting passengers and guests.

The Gerald R. Ford International Airport is the second busiest airport in Michigan, serving business and leisure travelers with nonstop and connecting flights on six airlines. The Ford Airport is managed and operated by the Gerald R. Ford International Airport Authority.

This solicitation will be publicly opened at the Gerald R Ford International Airport Authority, located on the second floor of the Gerald R Ford International Airport Terminal Building at 5500 44<sup>th</sup> St SE, Grand Rapids, MI, 49512. All submissions will be sealed until the date and time specified, at which time they will be opened and read aloud.

## SOLICITATION AND PROJECT SCHEDULE

ACTIVITY	DATE
BID Issue Date	January 10, 2023
Question Deadline	January 27, 2023
Submission Due Date	February 3, 2023 at 2 pm
Contract Start Date	March 1, 2023

GFIAA reserves the right to modify the deadline set forth in the above table in its sole discretion. Any such modifications will be stated in an addendum.

## SITE INSPECTION

Respondents may request an on-site inspection by appointment only. Discussions between the Respondent and airport staff during the on-site inspection do not override any written specification or correspondence provided in this solicitation.

CONTACT FOR AN APPOINTMENT	
Contact Name	David Cripps
Contact Phone Number	(616) 233-6003

Respondents shall not communicate with the above contact for any reason other than for on-site inspection purpose. Any Respondent requesting a modification to the written specification should contact the Purchasing Department as instructed within this request.

## PROJECT OVERVIEW

The Gerald R. Ford International Airport currently maintains two landscape beds at its entryway on 44<sup>th</sup> Street at Patterson Avenue. The successful Respondent will be responsible for the removal and replacement of these installations in accordance with the provided drawings. Respondent will be expected to procure and supply the prescribed shrubs, flowers, etc., and work directly with GFIAA Maintenance Staff on all aspects.

All work done must be done in a clean and courteous manner as to not impede traffic or cause any disruptions to the normal flow of business.

### Work Scope

1. Removal of the 2 existing landscape formations located on “island wedges” of green space North and South of the intersection of Patterson Avenue, 44<sup>th</sup> Street, and both Sweep lanes entering and exiting the airport.
  - a. Existing landscape must be properly repurposed or disposed of in a timely manner.
2. Construction of the prescribed landscaping as detailed in Exhibit A
  - a. Respondent will provide all described plants and landscaping aspects depicted in the drawings.
  - b. Modification of irrigation – allowance item
3. Coordinate with GFIAA Maintenance Staff to ensure satisfaction with work completed.
4. Clean up of all work areas to ensure the cleanliness of the entryways and surrounding areas.

### Special Attention to

#### Traffic Impacts

The Gerald R. Ford International Airport operates 24 hours a day, 7 days a week. Passengers, Employees, and other guests are consistently entering at all hours of the day/night. In order to ensure the lowest impact on everyone's overall experience, the GFIAA requests that the respondent have a plan to minimize impacts on the traffic flow at both points of work. This can include work schedules, alternate parking, or any other suggestions.

#### Cleanliness

Along similar lines, the GFIAA requests that any work done be completed in a manner as to not create a negative image on the cleanliness of the Gerald R. Ford International Airport. While all parties understand there will be a certain amount of mess on a landscape job, respondents will be expected to have a plan in place to minimize the extent of “mess” on the airport ground.



### Timelines

The Respondent, by submitting a response to this Bid, is committing to fulfilling their work according to the timeline stated above in this document.

### Communication

An open dialogue between the successful respondent and the GFIAA is expected. Updates, issues, etc. should be communicated to the GFIAA in a timely manner.

### Finished Product

All work performed will be expected to look professional and provide a positive presentation to the traveling public that will pass by these formations.

## REQUESTS FOR INFORMATION

Questions regarding this solicitation are to be submitted in writing to *[purchasing@grr.org](mailto:purchasing@grr.org)* prior to 2 p.m. on January 27, 2023.

GFIAA reserves the right to publish and respond to an inquiry, respond directly to the inquirer without publishing or not respond to the inquiry at its sole discretion.

It is the firm's responsibility to become familiar with and fully informed regarding the terms, conditions, and specifications of this solicitation. Lack of understanding or misinterpretation of any portions of this solicitation shall not be cause for withdrawal after opening or for subsequent protest of award.

Addendums will only be published by the GFIAA Purchasing Department and available for review at [www.grr.org](http://www.grr.org).

## CONSTRUCTION

All work is to be done in a first-class workmanlike manner. All debris (packing materials, replaced materials, etc.) are to be cleaned up and removed by the workers. At no point should the successful Respondent block or impede roadway traffic.

Any damage to airport property or green spaces will be the sole responsibility of the successful Respondent and staff to repair or replace at equal or greater value.

The successful Respondent is responsible for obtaining all necessary permits and licenses so the completed work complies with all applicable codes, ordinances, regulations, standards, and laws. The cost of such permits and licenses is understood to be a part of the bid price. Any fines, fees, or other costs taxed or charged to Kent County because of the successful bidder's violation(s) of any laws, standards, etc. will be paid by the successful bidder.

Dimensions furnished are for general reference only. Respondents must take their own measurements as necessary for preparing their response.

All materials are to be new, not refurbished, and free from corrosion, scratches, or other such defects which present other than a new appearance.

## BID SUBMISSION

Responses may be delivered physically or electronically. To be considered, complete submissions must be received prior to the due date and time specified (local time).

- Hard copy responses can be mailed or otherwise delivered to the address below.

Submission address:

Attn: AJ Nye, Procurement Specialist

Gerald R Ford International Airport Authority

5500 44<sup>th</sup> St SE

Grand Rapids, MI 49512

- Electronic responses can be securely uploaded as a single pdf document to:

<https://www.dropbox.com/request/vYCY99pFpMDtRIMEuYhB>

Electronic submissions shall be named with a form or portion of the firm's name as part of the document name.

The firm certifies the response submitted has not been made or prepared in collusion with any other respondent and the prices, terms or conditions thereof have not been communicated by or on behalf of the respondent to any other respondent prior to the official opening of this request. This certification may be treated for all purposes as if it were a sworn statement made under oath, subject to the penalties for perjury. Moreover, it is made subject to the provisions of 18 U.S.C. Section 1001, relating to the making of false statements.

Submissions may be withdrawn by written request only if the request is received on or before the opening date and time.

Submissions not meeting these criteria may be deemed non-responsive.

GFIAA is not liable for any costs incurred by any prospective firm prior to the awarding of a contract, including any costs incurred in addressing this solicitation.

## TERMS AND CONDITIONS

GFIAA reserves the right to require that its standard terms and conditions apply to any actual order placed in response to a firm's submission. No attempt to modify GFIAA's Standard Terms and Conditions shall be binding, absent agreement on such modification in writing and signed by GFIAA.

No payment shall be made to the Respondent for any extra material or services, or of any greater amount of money than stipulated to be paid in the contract, unless changes in or additions to the contract requiring additional outlay by the Respondent shall first have been expressly authorized and ordered in writing by contract amendment or otherwise furnished by the GFIAA.

The intent of these specifications is to solicit a properly designed and all-inclusive response. Any requirements not in the specifications, but which are needed for such a response, are to be included in the submission.

The Gerald R Ford International Airport Authority, in accordance with the provisions of Title VI of the Civil Rights Act of 1964 (78 Stat. 252, 42 U.S.C. §§ 2000d to 2000d-4) and the Regulations, hereby notifies all bidders that it will affirmatively ensure that for any contract entered into pursuant to this advertisement, disadvantaged business enterprises and airport concession disadvantaged business enterprises will be afforded full and fair opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, or national origin in consideration for an award.

The Respondent shall not discriminate against an employee or applicant for employment with respect to hire, tenure, terms, conditions or privileges of employment, or a matter directly or indirectly related to employment, because of race, color, religion, national origin, age, sex, height, weight, marital status, or disability that is unrelated to the individual's ability to perform the duties of a particular job or position.

The Respondent shall observe and comply with all applicable federal, state, and local laws, ordinances, rules and regulations at all times during the completion of any contract with the GFIAA.

The terms of this request shall be interpreted, construed and enforced pursuant to the laws of the State of Michigan, and the Parties irrevocably consent to the jurisdiction of the federal and state courts presiding in Michigan.

The GFIAA is tax-exempt and a regional airport authority organized under 2015 P.A. 95, being MCL 259.137 et. seq.

Vendor Representation and Warranty Regarding Federal Excluded Parties List: The Respondent acknowledges that the GFIAA may be receiving funds from or through the Federal Government; such funds may not be used to pay any Respondent on the Federal Excluded Parties List (EPLS). The Respondent represents and warrants to the GFIAA that it

is not on the Federal EPLS. If the Respondent is in non-compliance at any time during execution or term of this agreement (including any extensions thereof), the Respondent shall be in breach and the GFIAA shall be entitled to all remedies available to it at law or equity, specifically including but not limited to recovery of all moneys paid to the Respondent, all consequential damages (including the loss of grant funding or the requirement that grant funding be returned), and attorney fees (including the costs of in-house counsel) sustained as a result of the Respondent's non-compliance with this warranty and representation.

Pursuant to the Michigan Iran Economic Sanctions Act, 2012 P.A. 517, by submitting a bid, proposal or response, Respondent certifies, under civil penalty for false certification, that it is fully eligible to do so under law and that it is not an "Iran linked business," as that term is defined in the Act.

Insurance requirements are posted on the Documents and Forms page of the GFIAA website within the Purchasing Terms and Conditions document.

**Termination For Cause:** Should the firm fail to perform the Work as required by and in accordance with the schedule or time requirements, or otherwise violate any of the terms set forth in the Solicitation Request, it shall constitute breach of the Contract. Other than in force majeure situations, Respondent shall have five (5) calendar days to cure a breach of the Contract (the "Cure Period") following issuance of GFIAA written notice. Failure to cure a breach of the Contract within said Cure Period shall allow the GFIAA to, without further notice to the Respondent, declare the Contract terminated and proceed with the replacement of the Respondent and the GFIAA shall be entitled to all remedies available to it at law or in equity including a claim against any required payment/performance bonds.

**Termination Without Cause:** Notwithstanding any other provision, at any time and without cause, GFIAA shall have the right, in its sole discretion, to terminate the contract by giving sixty (60) days written notice.

Although it is the intent to contract with one provider, the GFIAA reserves the right to contract with alternate sources if the Respondent is unable or unwilling to service its obligation, or it is deemed by GFIAA to be in its best interest to use alternate sources.

**Assignment:** Neither party shall assign or delegate any of its rights or obligations under this Agreement without the prior written consent of the other party.

Respondent warrants that they are an authorized provider of products or services of his/her submission.

## MICHIGAN FREEDOM OF INFORMATION ACT

Information submitted in this solicitation is subject to the Michigan Freedom of Information Act and may not be held in confidence after the Respondent's submission is opened. A submission will be available for review after the project has been awarded.

GFIAA cannot assure that all of the information submitted as part of or peripheral to the Respondent's submission will be kept confidential. Any Respondent submission language designated as confidential is considered automatically invalid and void. GFIAA is subject to the Michigan Freedom of Information Act, which prohibits it from concealing information on or associated with responses, successful or unsuccessful, once they are opened.

## EVALUATION, STATUS UPDATES/AWARD NOTIFICATION

The Authority reserves the right to request additional information it may deem necessary after the submissions are received.

As part of the evaluation process, Respondents may be requested to make an oral presentation, at the Respondent's expense, to an evaluation committee. Key staff to be assigned to this project must participate in this presentation unless otherwise waived by the Authority. The presentation may be followed by a question-and-answer session.

The Authority reserves the right at its discretion to waive irregularities of this solicitation process.

In the event of extension errors, the unit price shall prevail and the Respondent's total offer will be corrected accordingly. In the event of addition errors, the extended totals will prevail and the Respondent's total will be corrected accordingly. Respondent must check their submission where applicable. Failure to do so will be at the Respondent's risk. Submissions having erasures or corrections must be initialed in ink by the Respondent. Respondents are cautioned to recheck their submissions for possible errors.

The Respondent shall not be allowed to take advantage of error, omissions or discrepancies in the specifications.

The Authority, at its sole discretion, reserves the right to award to the Respondent whose response is deemed most advantageous to the Authority. The Authority, at its sole discretion, shall select the most responsive and responsible Respondent and evaluate all responses based on the requirements and criterion set forth in this solicitation while reserving the right to weigh specifications and other factors in the award. The Authority reserves the right to reject any and all submissions as a result of this solicitation.

The Authority reserves the right to award by line item when applicable and to accept or reject any or all parts of a submission.

Accelerated discounts should be so stated at the time of submission. If quick-pay discounts are offered, The Authority reserves the right to include that discount as part of the award criterion. Prices must, however, be based upon payment in thirty (30) days after receipt, inspection, and acceptance. In all cases, quick-pay discounts will be calculated from the date of the invoice or the date of acceptance, whichever is later.

Award notifications are posted on the Authority website. It is the Respondent's responsibility to monitor the website for status updates.

## EXHIBITS

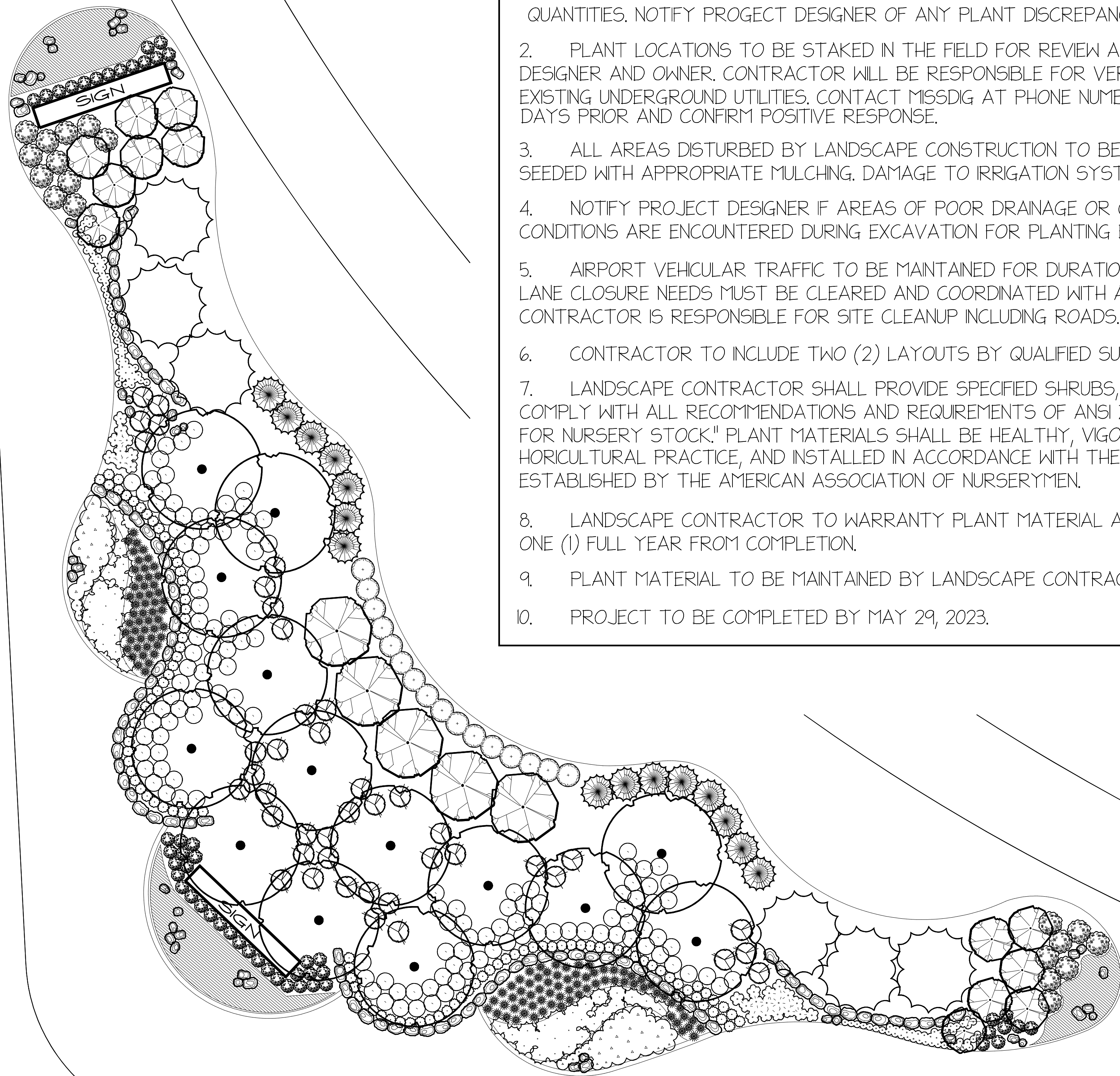
### Exhibit A: Landscape Drawings

Landscape Drawings provided on pages below



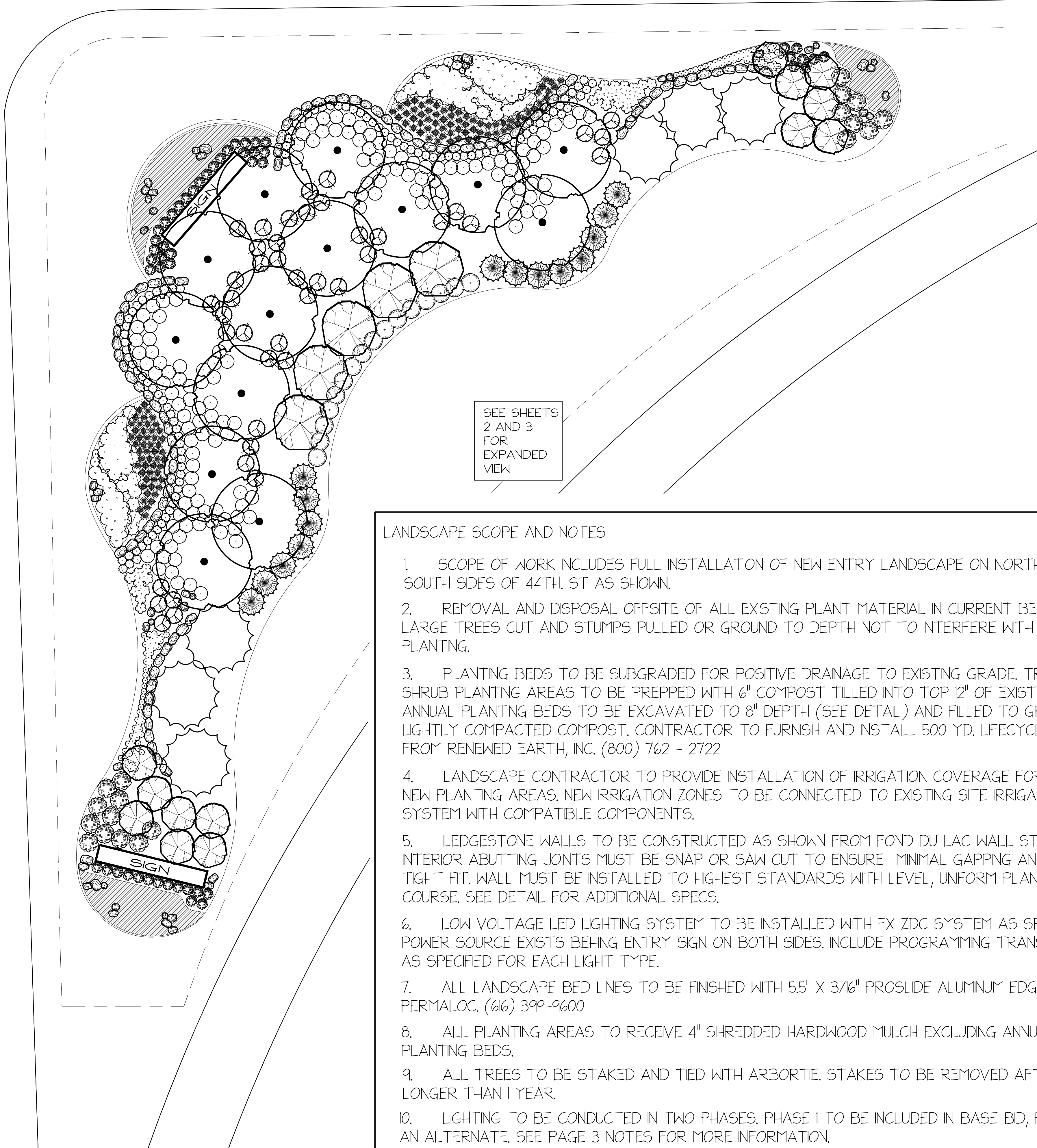
GENERAL PROJECT NOTES

1. CONTRACTOR RESPONSIBLE FOR UNDERSTANDING PROJECT CONDITIONS AND VERIFYING PLANT QUANTITIES. NOTIFY PROJECT DESIGNER OF ANY PLANT DISCREPANCIES.
2. PLANT LOCATIONS TO BE STAKED IN THE FIELD FOR REVIEW AND APPROVAL BY PROJECT DESIGNER AND OWNER. CONTRACTOR WILL BE RESPONSIBLE FOR VERIFYING ALL EXISTING UNDERGROUND UTILITIES. CONTACT MISSDIG AT PHONE NUMBER 81 AT LEAST THREE (3) WORKING DAYS PRIOR AND CONFIRM POSITIVE RESPONSE.
3. ALL AREAS DISTURBED BY LANDSCAPE CONSTRUCTION TO BE RESTORED WITH TOPSOIL AND SEEDED WITH APPROPRIATE MULCHING. DAMAGE TO IRRIGATION SYSTEMS TO BE REPAIRED.
4. NOTIFY PROJECT DESIGNER IF AREAS OF POOR DRAINAGE OR OTHER UNUSUAL SUB-GRADE CONDITIONS ARE ENCOUNTERED DURING EXCAVATION FOR PLANTING BEDS.
5. AIRPORT VEHICULAR TRAFFIC TO BE MAINTAINED FOR DURATION OF PROJECT. ANY DELIVERIES OR LANE CLOSURE NEEDS MUST BE CLEARED AND COORDINATED WITH AIRPORT MANAGEMENT. CONTRACTOR IS RESPONSIBLE FOR SITE CLEANUP INCLUDING ROADS.
6. CONTRACTOR TO INCLUDE TWO (2) LAYOUTS BY QUALIFIED SURVEYOR WITHIN BID.
7. LANDSCAPE CONTRACTOR SHALL PROVIDE SPECIFIED SHRUBS, PERENNIALS, AND TREES THAT COMPLY WITH ALL RECOMMENDATIONS AND REQUIREMENTS OF ANSI Z601 "AMERICAN STANDARDS FOR NURSERY STOCK." PLANT MATERIALS SHALL BE HEALTHY, VIGOROUS STOCK, GROWN WITH GOOD HORTICULTURAL PRACTICE, AND INSTALLED IN ACCORDANCE WITH THE BEST PRACTICE METHODS ESTABLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
8. LANDSCAPE CONTRACTOR TO WARRANTY PLANT MATERIAL AND WORK FOR THE PERIOD OF ONE (1) FULL YEAR FROM COMPLETION.
9. PLANT MATERIAL TO BE MAINTAINED BY LANDSCAPE CONTRACTOR UNTIL PROJECT COMPLETION.
10. PROJECT TO BE COMPLETED BY MAY 29, 2023.



44TH STREET

PATTERSON



LANDSCAPE SCOPE AND NOTES

1. SCOPE OF WORK INCLUDES FULL INSTALLATION OF NEW ENTRY LANDSCAPE ON NORTH AND SOUTH SIDES OF 44TH ST AS SHOWN.
2. REMOVAL AND DISPOSAL OFFSITE OF ALL EXISTING PLANT MATERIAL IN CURRENT BED SPACE. LARGE TREES CUT AND STUMPS PULLED OR GROUND TO DEPTH NOT TO INTERFERE WITH NEW PLANTING.
3. PLANTING BEDS TO BE SUBGRADED FOR POSITIVE DRAINAGE TO EXISTING GRADE. TREE AND SHRUB PLANTING AREAS TO BE PREPPED WITH 6" COMPOST TILLED INTO TOP 12" OF EXISTING SOIL. ANNUAL PLANTING BEDS TO BE EXCAVATED TO 8" DEPTH (SEE DETAIL) AND FILLED TO GRADE WITH LIGHTLY COMPACTED COMPOST. CONTRACTOR TO FURNISH AND INSTALL 500 YD. LIFECYCLE COMPOST FROM RENEWED EARTH, INC. (800) 762 - 2722
4. LANDSCAPE CONTRACTOR TO PROVIDE INSTALLATION OF IRRIGATION COVERAGE FOR ALL NEW PLANTING AREAS. NEW IRRIGATION ZONES TO BE CONNECTED TO EXISTING SITE IRRIGATION SYSTEM WITH COMPATIBLE COMPONENTS.
5. LEDGESTONE WALLS TO BE CONSTRUCTED AS SHOWN FROM FOND DU LAC WALL STONE. ALL INTERIOR ABUTTING JOINTS MUST BE SNAP OR SAW CUT TO ENSURE MINIMAL GAPPING AND UNIFORM TIGHT FIT. WALL MUST BE INSTALLED TO HIGHEST STANDARDS WITH LEVEL, UNIFORM PLANES AT EACH COURSE. SEE DETAIL FOR ADDITIONAL SPECS.
6. LOW VOLTAGE LED LIGHTING SYSTEM TO BE INSTALLED WITH FX ZDC SYSTEM AS SPECIFIED. POWER SOURCE EXISTS BEHIND ENTRY SIGN ON BOTH SIDES. INCLUDE PROGRAMMING TRANSFORMER AS SPECIFIED FOR EACH LIGHT TYPE.
7. ALL LANDSCAPE BED LINES TO BE FINISHED WITH 5.5" X 3/16" PROSLIDE ALUMINUM EDGING FROM PERMALOC. (616) 399-9600
8. ALL PLANTING AREAS TO RECEIVE 4" SHREDDED HARDWOOD MULCH EXCLUDING ANNUAL PLANTING BEDS.
9. ALL TREES TO BE STAKED AND TIED WITH ARBORTE. STAKES TO BE REMOVED AFTER NO LONGER THAN 1 YEAR.
10. LIGHTING TO BE CONDUCTED IN TWO PHASES. PHASE 1 TO BE INCLUDED IN BASE BID, PHASE 2 AS AN ALTERNATE. SEE PAGE 3 NOTES FOR MORE INFORMATION.
11. CONTRACTOR TO INCLUDE \$20,000 ALLOWANCE FOR IRRIGATION REPAIR AND RELATED WORK.

GERALD R. FORD International Airport



HARDER & WARNER LANDSCAPES  
6464 BROADMOOR AVE SE  
CALEDONIA, MI 49316  
(616) 698 - 6910

GERALD R. FORD  
INTERNATIONAL AIRPORT

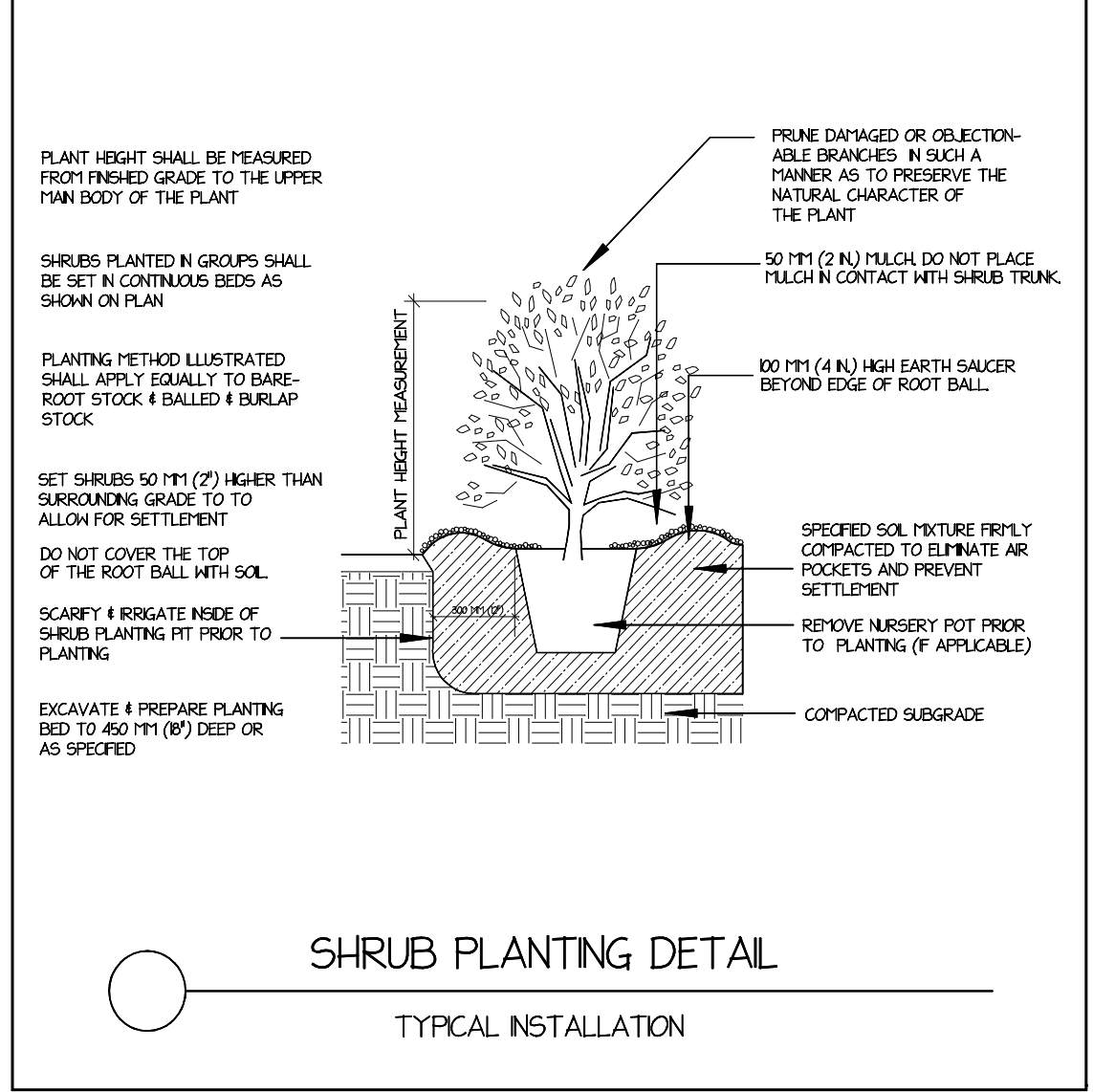
PATTERSON AND 44TH ST ENTRANCE  
LANDSCAPE BEDS

SCALE	1" = 20' - 0"
DRAWN BY	H&W LANDSCAPES
CHECKED BY	
DATE	12/27/2022
DATE OF PRINT	

PROJECT NO.	
SHEET NO.	1 FULL SCOPE, PROJECT AND LANDSCAPE DETAILS

Powered by DynaSCAPE®





PROJECT NO.

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SHEET NO.

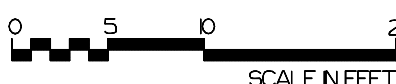
2.

PLANTING DETAILS  
AND  
PLANT LIST

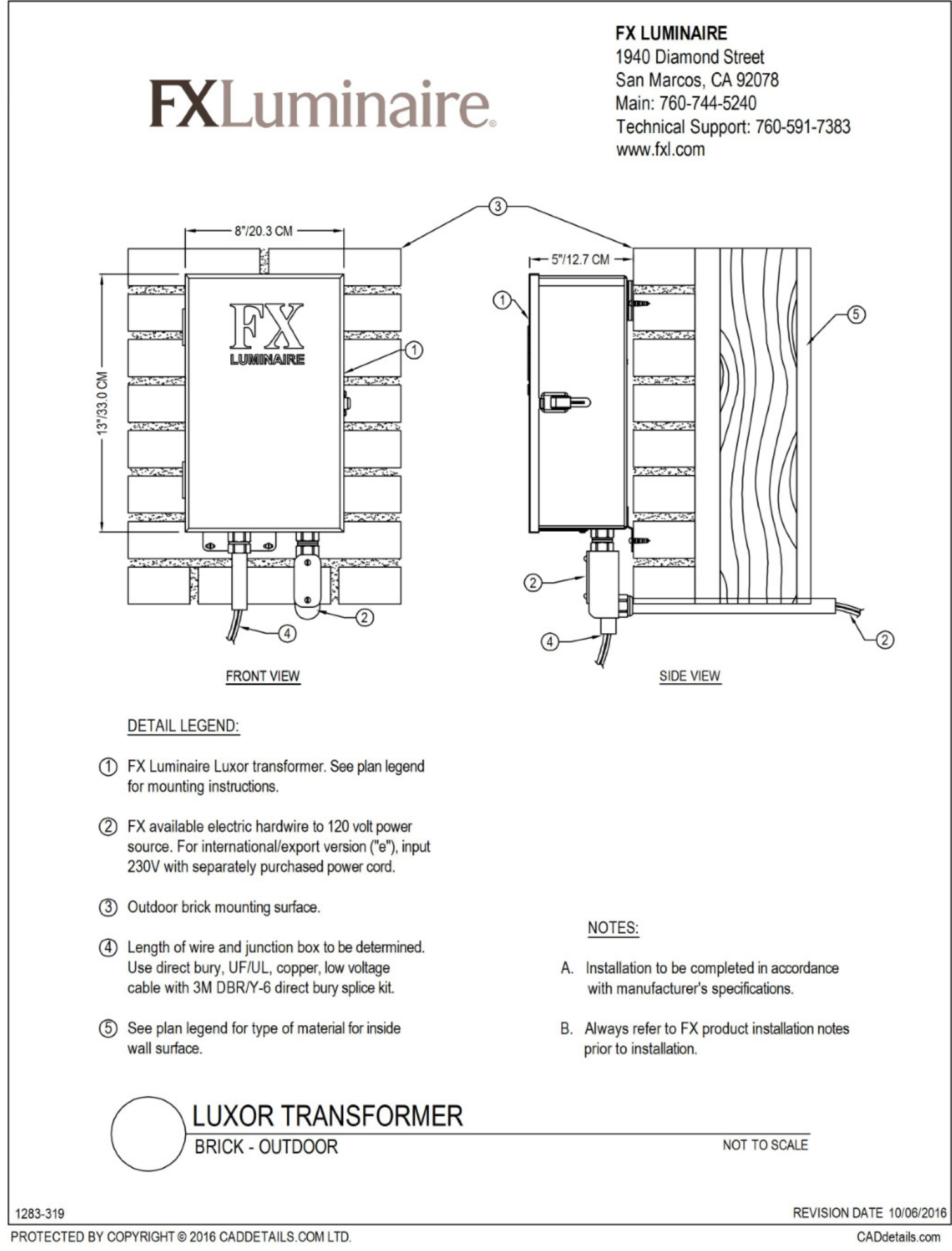
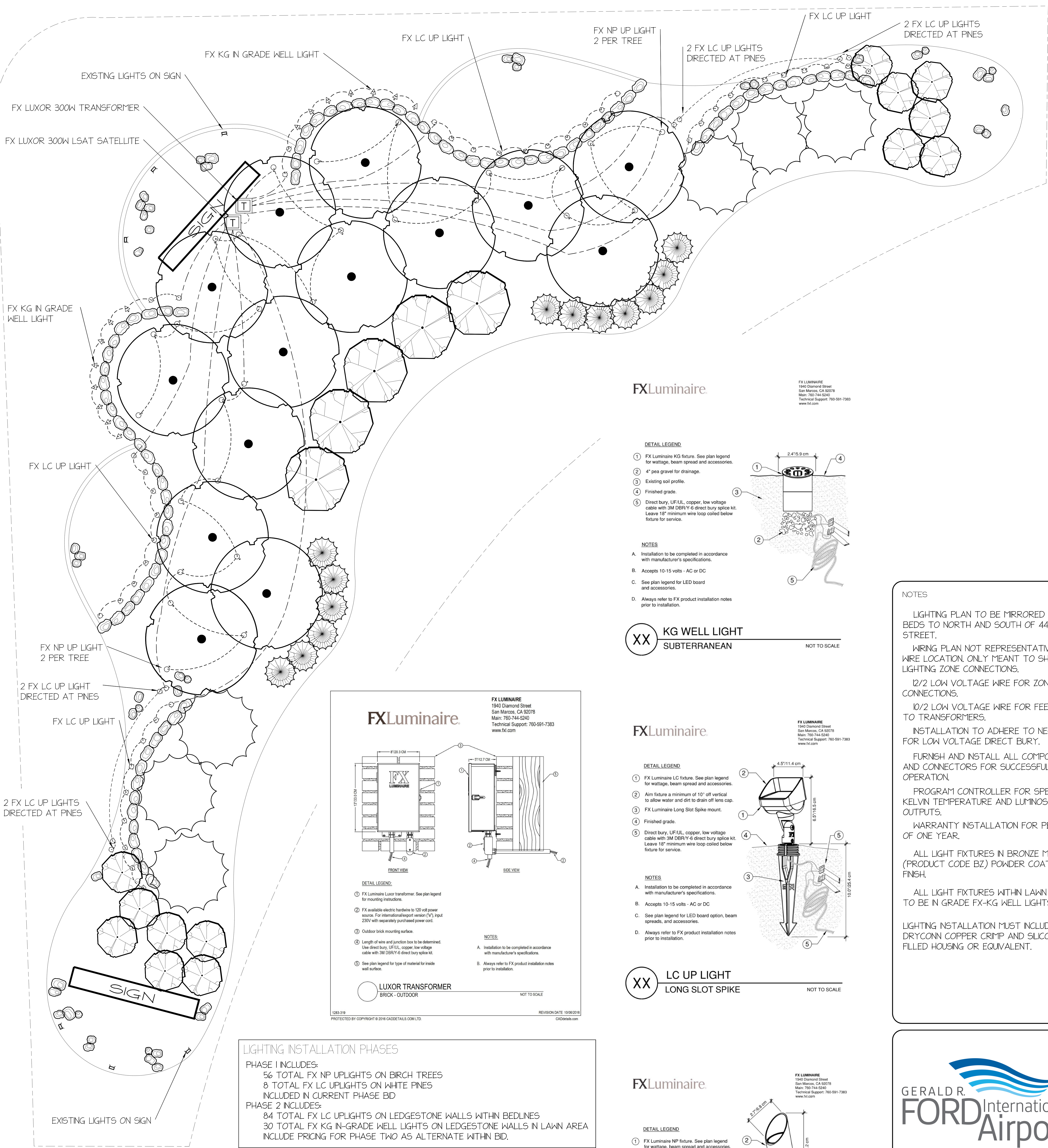
PAVER ACCENT EDGE:  
DOUBLE WIDE SOLDIER COURSE

ANNUAL PLANTING BED

LEDGESTONE WALLS  
AND OUTCROPPINGS







**LIGHTING INSTALLATION PHASES**

PHASE 1 INCLUDES:  
56 TOTAL FX NP UPLIGHTS ON BIRCH TREES  
8 TOTAL FX LC UPLIGHTS ON WHITE PINES  
INCLUDED IN CURRENT PHASE BID

PHASE 2 INCLUDES:  
84 TOTAL FX LC UPLIGHTS ON LEDGESTONE WALLS WITHIN BEDLINES  
30 TOTAL FX KG IN-GRADE WELL LIGHTS ON LEDGESTONE WALLS IN LAWN AREA  
INCLUDE PRICING FOR PHASE TWO AS ALTERNATE WITHIN BID.

	KGZDCBZ - FX LUMINAIRE KG WELL LIGHT MOUNTED IN GRADE MAXIMUM 1" OF FIXTURE ABOVE GRADE - ZDC INTEGRATED 91 W LED LAMP @ 2700K FIXTURE IN BRONZE METALLIC FINISH
	NPZDCBZ - FX LUMINAIRE NP UPLIGHT MOUNTED ON FX LUMINAIRE POST MOUNT GROUND STAKE ZDC INTEGRATED 91 W LED LAMP @ 2700K FIXTURE IN BRONZE METALLIC FINISH
	LCZDCBZ - FX LUMINAIRE LC UP LIGHT MOUNTED ON FX-LSS LONG SLOT SPIKE MOUNT ZDC INTEGRATED 91 W LED LAMP @ 2700K FIXTURE IN BRONZE METALLIC FINISH
	EXISTING LIGHTING FOR SIGN
	LOW VOLTAGE LIGHTING WIRE
	LOW VOLTAGE POWER TO LIGHTING ZONE
	LUX30055 - FX LIGHTING LUXOR 300 WATT TRANSFORMER MOUNTED ON CEDAR POST, MINIMUM 12" CLEARANCE FROM BOTTOM OF TRANSFORMER TO GRADE WIRING WITHIN 15' GRAY PVC CONDUIT MINIMUM 12" BELOW GRADE  LSAT30055 - FX LIGHTING LUXOR 300 WATT LSAT SATELLITE MOUNTED ON CEDAR POST, MINIMUM 12" CLEARANCE FROM BOTTOM OF SATELLITE TO GRADE WIRING WITHIN 15' GRAY PVC CONDUIT MINIMUM 12" BELOW GRADE

LOW VOLTAGE CABLE VALUES:			
8 GAUGE	40 MAX AMPS	0.00064 RESISTANCE	
10 GAUGE	30 MAX AMPS	0.00108 RESISTANCE	
12 GAUGE	20 MAX AMPS	0.00164 RESISTANCE	
14 GAUGE	15 MAX AMPS	0.00252 RESISTANCE	

FXLuminaire

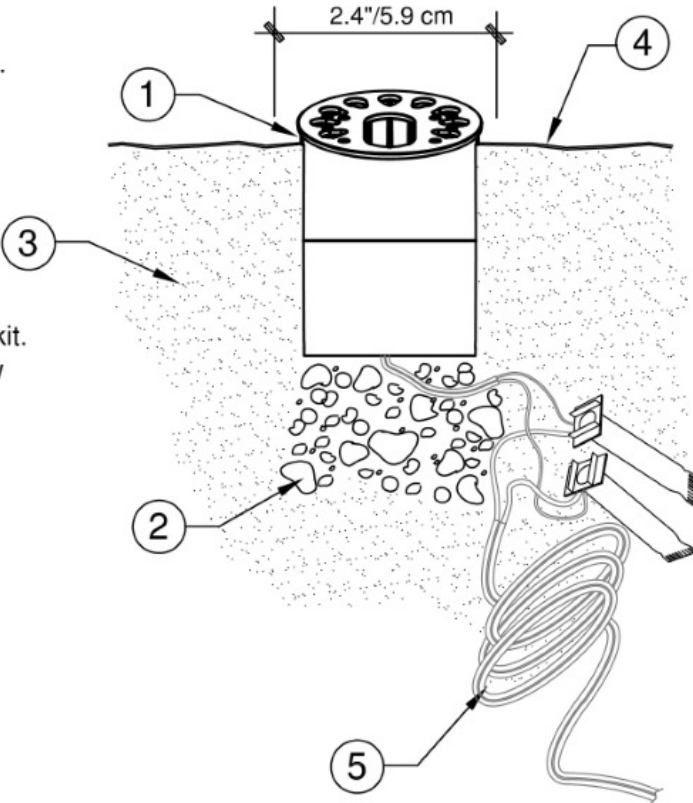
FX LUMINAIRE  
1940 Diamond Street  
San Marcos, CA 92078  
Main: 760-744-5240  
Technical Support: 760-591-7383  
www.fxli.com

DETAIL LEGEND

- FX Luminaire KG fixture. See plan legend for wattage, beam spread and accessories.
- 4" pea gravel for drainage.
- Existing soil profile.
- Finished grade.
- Direct bury, UF/UL, copper, low voltage cable with 3M DBRY-6 direct bury splice kit. Leave 18" minimum wire loop coiled below fixture for service.

NOTES

- A. Installation to be completed in accordance with manufacturer's specifications.
- B. Accepts 10-15 volts - AC or DC
- C. See plan legend for LED board and accessories.
- D. Always refer to FX product installation notes prior to installation.



XX KG WELL LIGHT  
SUBTERRANEAN

NOT TO SCALE

FXLuminaire

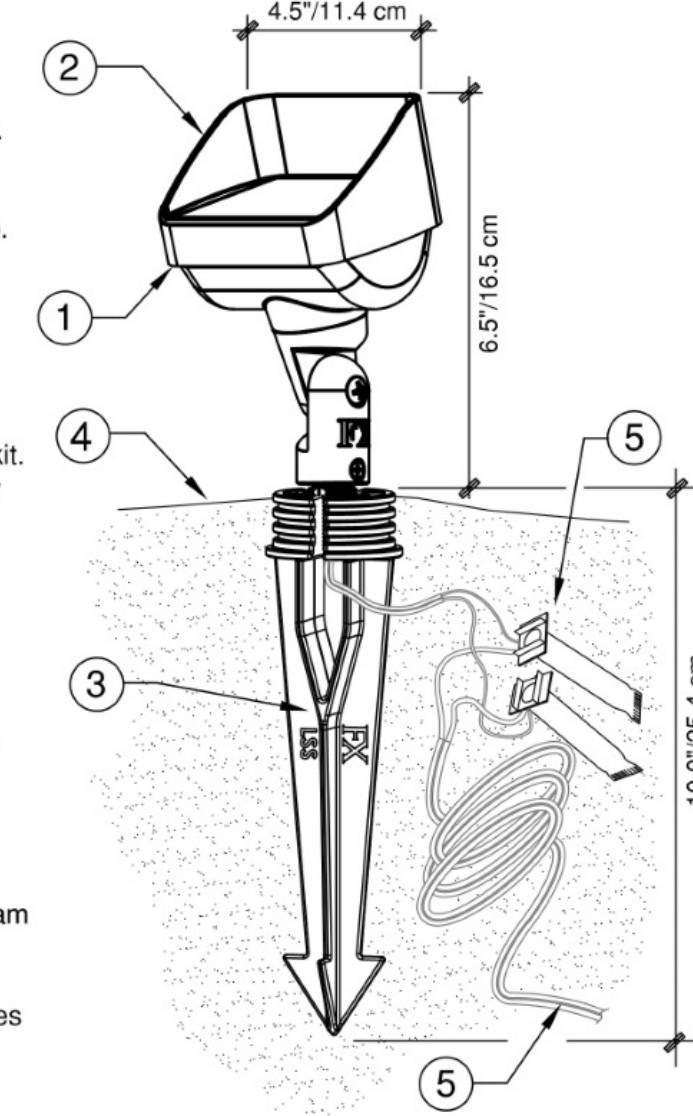
FX LUMINAIRE  
1940 Diamond Street  
San Marcos, CA 92078  
Main: 760-744-5240  
Technical Support: 760-591-7383  
www.fxli.com

DETAIL LEGEND

- FX Luminaire LC fixture. See plan legend for wattage, beam spread and accessories.
- Aim fixture a minimum of 10" off vertical to allow water and dirt to drain off lens cap.
- FX Luminaire Long Slot Spike mount.
- Finished grade.
- Direct bury, UF/UL, copper, low voltage cable with 3M DBRY-6 direct bury splice kit. Leave 18" minimum wire loop coiled below fixture for service.

NOTES

- A. Installation to be completed in accordance with manufacturer's specifications.
- B. Accepts 10-15 volts - AC or DC
- C. See plan legend for LED board option, beam spreads, and accessories.
- D. Always refer to FX product installation notes prior to installation.



XX LC UP LIGHT  
LONG SLOT SPIKE

NOT TO SCALE

FXLuminaire

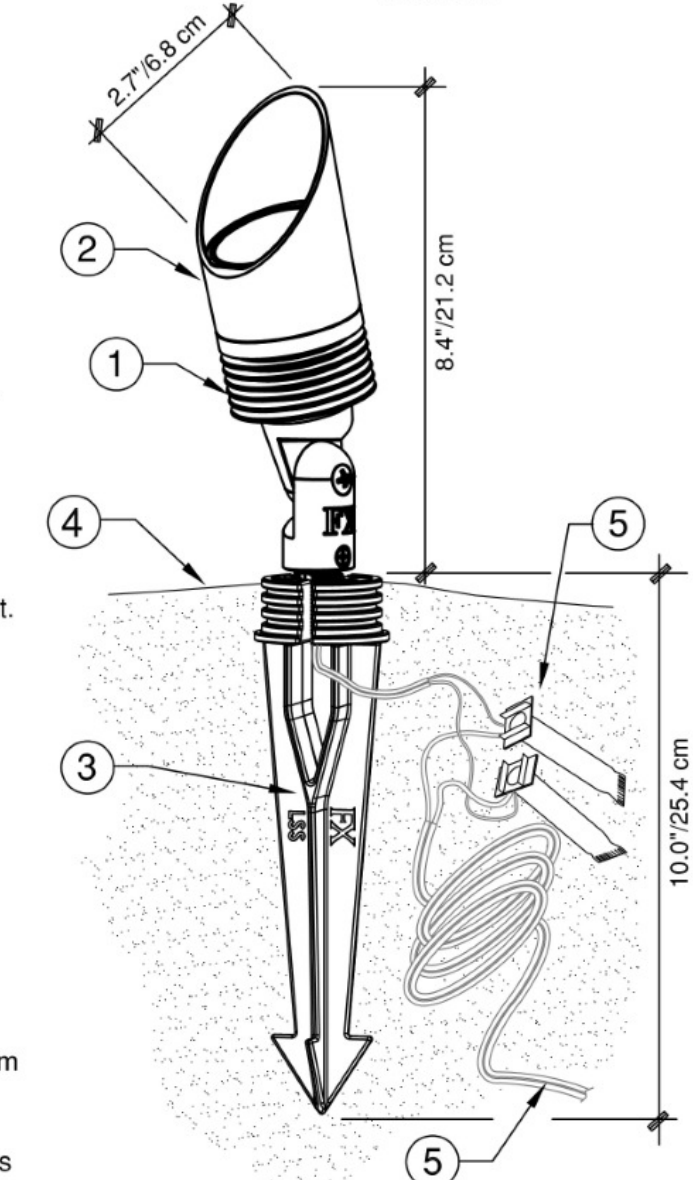
FX LUMINAIRE  
1940 Diamond Street  
San Marcos, CA 92078  
Main: 760-744-5240  
Technical Support: 760-591-7383  
www.fxli.com

DETAIL LEGEND

- FX Luminaire NP fixture. See plan legend for wattage, beam spread and accessories.
- Aim fixture a minimum of 10" off vertical to allow water and dirt to drain off lens cap.
- FX Luminaire Long Slot Spike mount.
- Finished grade.
- Direct bury, UF/UL, copper, low voltage cable with 3M DBRY-6 direct bury splice kit. Leave 18" minimum wire loop coiled below fixture for service.

NOTES

- A. Installation to be completed in accordance with manufacturer's specifications.
- B. Accepts 10-15 volts - AC or DC
- C. See plan legend for LED board option, beam spreads, and accessories.
- D. Always refer to FX product installation notes prior to installation.



XX NP UP LIGHT  
LONG SLOT SPIKE

NOT TO SCALE

GERALD R. FORD International Airport

HARDER & WARNER LANDSCAPES  
6464 BROADMOOR AVE SE  
CALEDONIA, MI 49316  
(616) 698 - 6910

GERALD R. FORD INTERNATIONAL AIRPORT

PATTERSON AND 44TH ST ENTRANCE LANDSCAPE BEDS

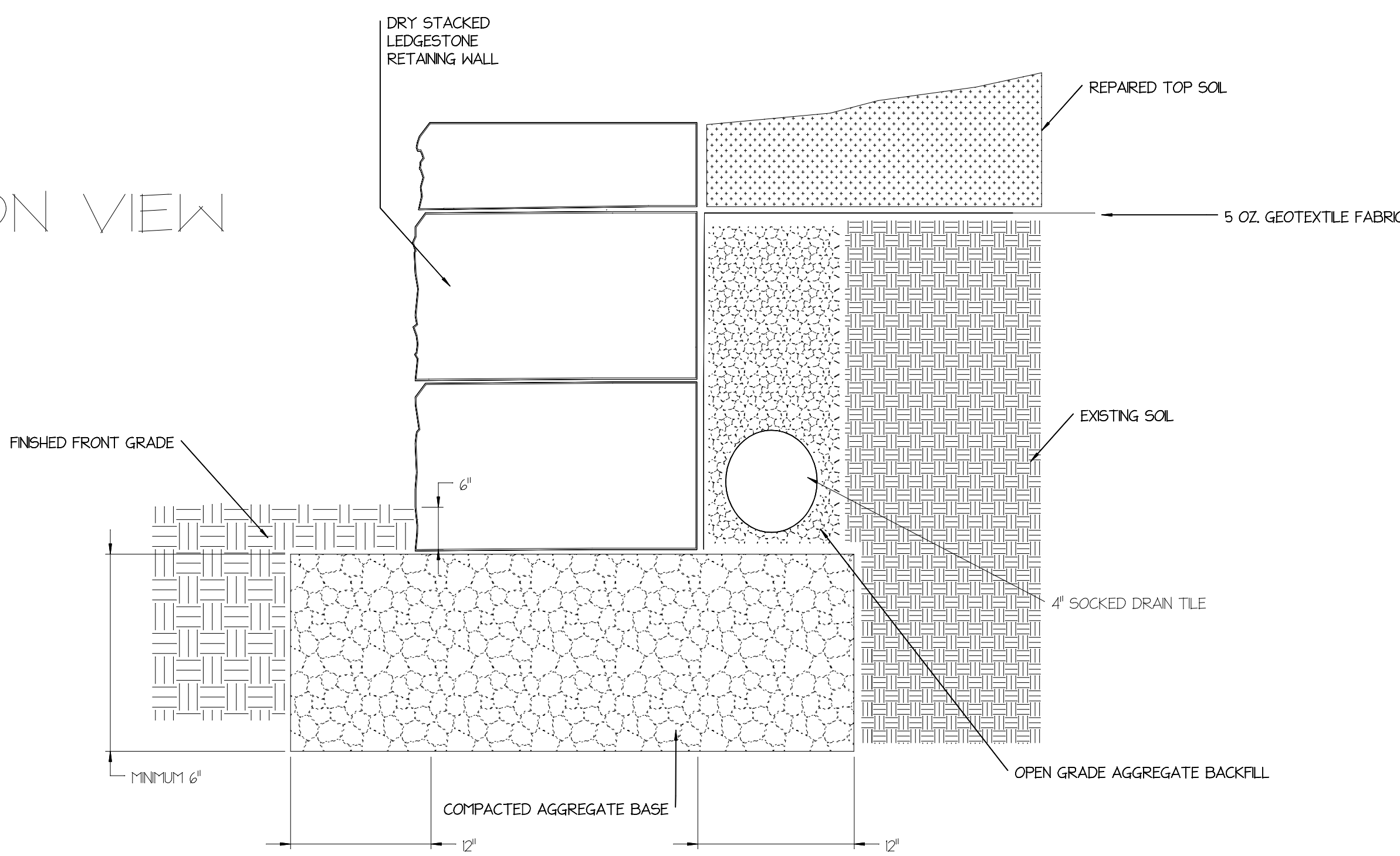
SCALE: 1" = 10' - 0"  
DRAWN BY: H&W LANDSCAPES  
CHECKED BY:  
DATE: 12/27/2022  
DATE OF PRINT:

PROJECT NO.: GRR AIRPORT ENTRANCE LANDSCAPE BEDS  
SHEET NO.: 3. LIGHTING PLAN, DETAILS, AND SPEC  
Powered by Dynascape



# TYPICAL DRY STACKED LEDGESTONE WALL\*

ELEVATION VIEW



## LEDGESTONE WALL NOTES:

COMPACTED AGGREGATE TO BE MINIMUM 6" THICK AND EXTEND MIN 12" IN FRONT AND BEHIND STONE. BOTTOM OF FIRST COURSE OF WALL MINIMUM 6" BELOW FINISHED FRONT GRADE.

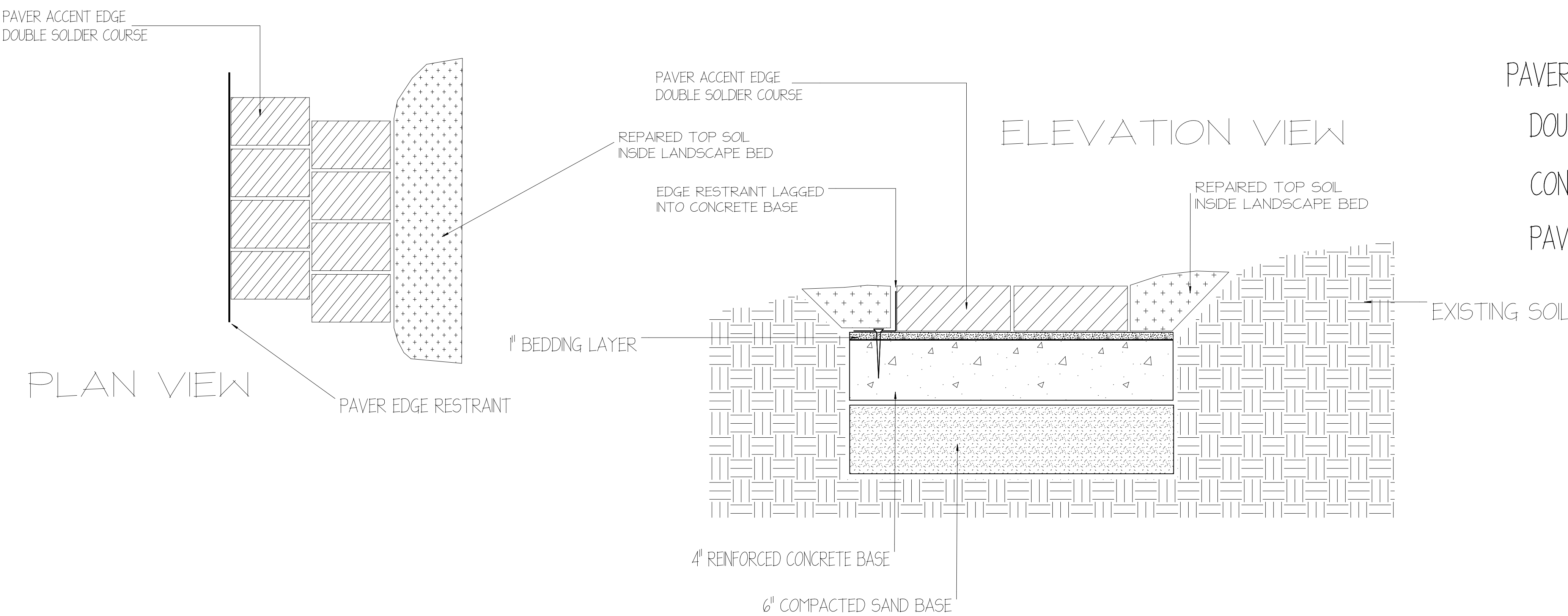
HEIGHT OF WALL TO BE 24" FROM FINISHED GRADE AT MINIMUM.

TOP OF WALLS TO BE CONSISTENT ELEVATION.

WALLS TO BE CONSTRUCTED OF FONDULOC LEDGESTONE.

# PAVER ACCENT EDGE DETAIL\*

PLAN VIEW



## PAVER ACCENT EDGE NOTES:

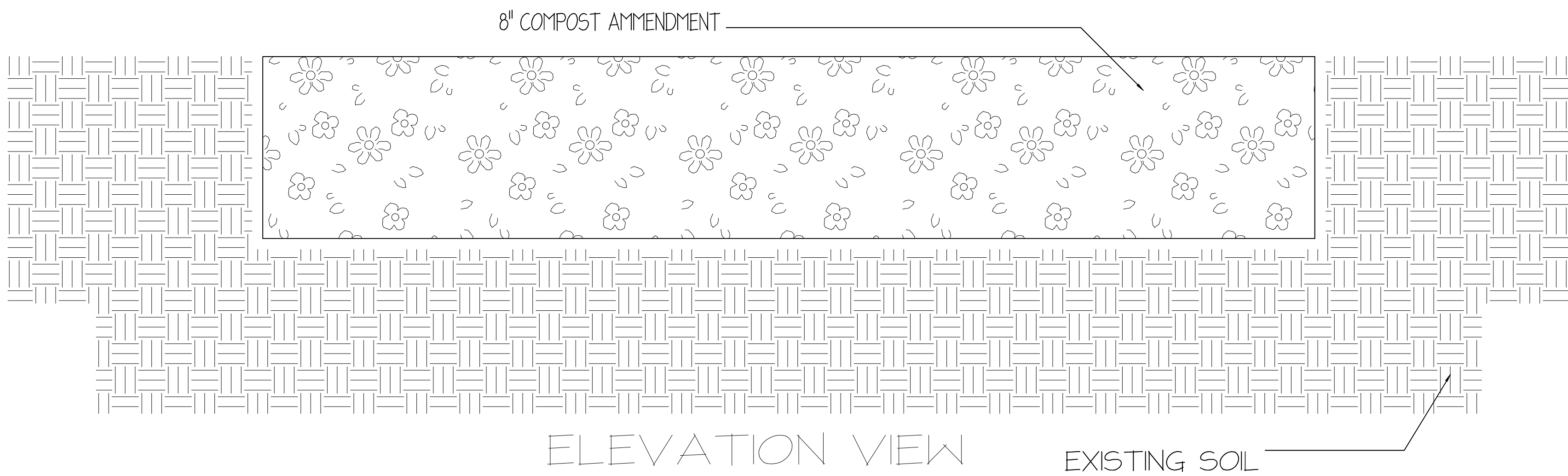
DOUBLE SOLDIER COURSE PAVER EDGE OVER MINIMUM 4" REINFORCED CONCRETE BASE.

CONCRETE POURED ON MINIMUM 6" COMPACTED SAND BASE.

PAVER EDGE TO BE RESTRAINED WITH L-SHAPE EDGING STRIP LAGGED INTO CONCRETE BASE.

# ANNUAL PLANTING BED DETAIL\*

ELEVATION VIEW



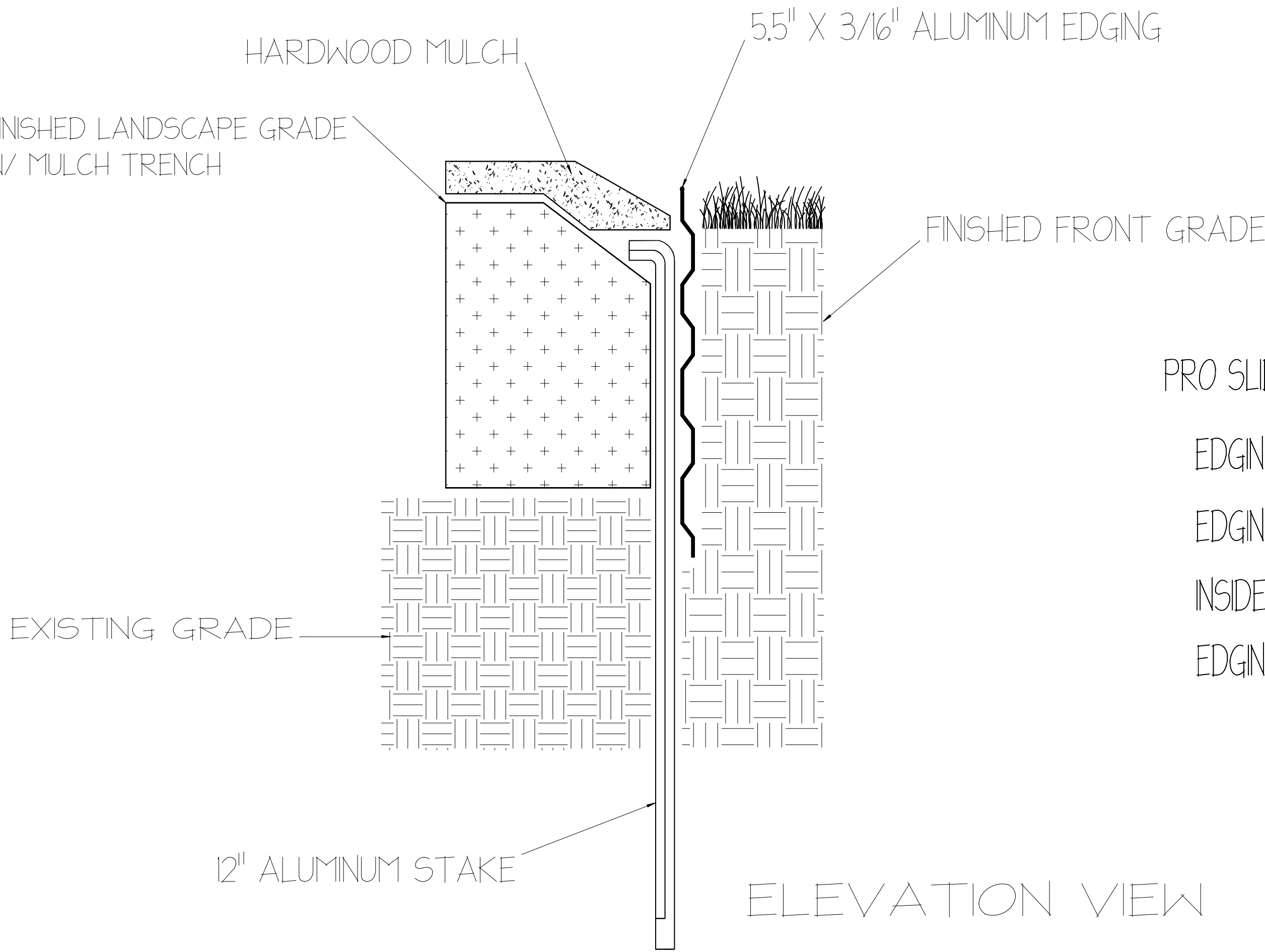
## ANNUAL PLANT BED NOTES:

ANNUAL PLANTING AREAS TO BE EXCAVATED MINIMUM 8" AND FILL TO DEPTH WITH LIGHTLY COMPACTED COMPOST FROM RENEWED EARTH INC.

ANNUAL BEDS NOT TO BE MULCHED.

# PRO SLIDE BED EDGING DETAIL\*

EXISTING GRADE



## PRO SLIDE BED EDGING NOTES:

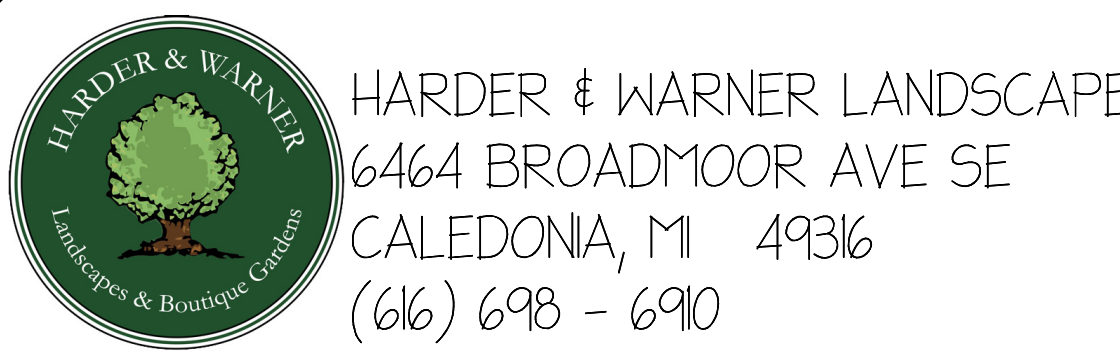
EDGING TO BE 3/16" X 5 1/2" PROSLIDE EDNG BY PERMALOC IN BLACK COLOR.

EDGING SHOULD SIT MAX 1/2" ABOVE FINISHED FRONT GRADE.

INSIDE GRADE SHOULD BE BEVELED TO 4" BELOW TOP OF EDGING TO RESST MULCH WASH OUT.

EDGING IS TONGUE AND GROVE JOINTED. SHOULD BE OVERLAPPED MIN. 2'.

\*DETAILS NOT TO SCALE



GERALD R. FORD  
INTERNATIONAL AIRPORT

PATTERSON AND 44TH ST ENTRANCE  
LANDSCAPE BEDS

SCALE	NOT TO SCALE
DRAWN BY	H&W LANDSCAPES
CHECKED BY	
DATE	12/27/2022
DATE OF PRINT	

PROJECT NO.	
SHEET NO.	4. CONSTRUCTION AND LANDSCAPE DETAILS

Exhibit B: Bid Form

BID 2305: Airport Entrance Beautification

Company Name: \_\_\_\_\_

Contact Name and Title: \_\_\_\_\_

Address: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone: \_\_\_\_\_

Email: \_\_\_\_\_

Acknowledged Addendum (if any): \_\_\_\_\_

The undersigned, having examined the Contract and Bid Documents hereby propose to furnish all materials, equipment, and services for the proper delivery of the following:

1. Cost of Materials \_\_\_\_\_
2. Cost of Labor \_\_\_\_\_
3. Irrigation Allowance \$20,000
  - a. TOTAL PROJECT COST: \_\_\_\_\_
4. PROPOSED PROJECT TIMEFRAME: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Title: \_\_\_\_\_

Work References

Provide a minimum of three (3) relevant landscape reconstruction references, preferable for projects of similar scope and complexity.

1.

\_\_\_\_\_

2.

\_\_\_\_\_

3.

\_\_\_\_\_