



CITY OF PETALUMA

POST OFFICE BOX 61
PETALUMA, CA 94953-0061

Kevin McDonnell
Mayor

ADDENDUM NO. 1

Brian Barnacle
Janice Cader-Thompson,
Dist. 1
Mike Healy
Karen Nau, Dist. 3
Dennis Pocekay
John Shribbs, Dist. 2
Councilmembers

LUCCHESI TURF FIELD REPLACEMENT PROJECT City Project Number C14502008

March 8, 2023

BID SCHEDULE – REVISION

1. Revised Bid Schedule. Changes are tracked in red.
Revised Bid Schedule is attached to this Addendum and shall be incorporated in the bid documents.

SPECIFICATIONS - REVISION

1. Specifications Section 32 18 14 was **revised** and **posted** in the City website.
Revised specifications section change product in section 2.07, ROOT BARRIER

A. ~~Root Barriers: Model #UB 36-2 "Universal Barrier" by Deep Root Partners L.P., 800-458-7668, or equal.~~

A. Root Barriers: Model "BioBarrier" by Typar Geosynthetics, 877-642-9929, or equal.

DRAWING PLAN - REVISION

1. Drawing Sheet L3.0 was **revised** and **posted** in the City website.
Revised L3.0 shall be incorporated in the bid documents. Revision includes additional sawcutting and hardscape demolition within the Maria Dr to show the full length of demolition to tap into the existing water mainline.

2. Drawing Sheet L4.0 was **revised** and **posted** in the City website.
Revised L4.0 shall be incorporated in the bid documents. The revision includes modification to the limits of grading in Maria Dr.

3. Drawing Sheet L5.0 was **revised** and **posted** in the City website.
Revised L5.0 shall be incorporated in the bid documents. Revisions include modification to the length of the new domestic water line that will connect to the existing water line in Maria Dr. Modification also includes adding the existing mainline size of 10" to callout #1 within the legend.

4. Drawing Sheet L6.0 was **revised** and **posted** in the City website.
Revised L6.0 shall be incorporated in the bid documents. Revisions include modification to the limits of new asphalt paving in Maria Dr and updated limits to Bid Alternate #2 – Fence Fabric Replacement.

Public Works & Utilities

City Engineer
11 English Street
Petaluma, CA 94952
Phone (707) 778-4303

Environmental Services
Ellis Creek Water
Recycling Facility
3890 Cypress Drive
Petaluma, CA 94954
Phone (707) 776-3777
Fax (707) 656-4067

Facilities, Parks &
Streets Maintenance
840 Hopper St.
Petaluma, CA 94952
Phone (707) 778-4303
Fax (707) 206-6065

Transit Division
555 N. McDowell Blvd.
Petaluma, CA 94954
Phone (707) 778-4421

Utilities & Field Operations
202 N. McDowell Blvd.
Petaluma, CA 94954
Phone (707) 778-4546
Fax (707) 206-6034

E-Mail:
publicworks@
cityofpetaluma.org

CLARIFICATION TO CONTRACTORS – QUESTION AND RESPONSE

Question #1: Under “Notice Inviting Bids” it states the City has entered into a CMAS purchasing agreement with FieldTurf USA, Inc. for the installation of the synthetic turf, drainage/shock pad, and infill. However, there is a bid item for this scope of work as indicated per Bid Schedule Item No. 25 “Synthetic Turf Install, Shock Pad/Drain Tile, and Fabric Install. Please clarify if the Contractor or City will be responsible for this scope of work?

Response #1: The City has entered into a CMAS agreement with FieldTurf USA Inc. to purchase the materials only. The materials included in this CMAS agreement include the turf material, infill material, shock pad/drain tile, and filter fabric. The contractor will be responsible for the installation of these City purchased materials as a part of this project.

Question #2: Can you clarify whether the CMAS contractor under the CMAS will install the filter fabric underneath the synthetic field as indicated per Detail E on Sheet LD 1.0 on the Contract Drawings?

Response #2: The filter fabric material under the synthetic turf will be purchased only as part of the CMAS contract. It will be the responsibility of the contractor as part of this project to install the filter fabric.

Question #3: Special Provisions Section III of the Contract Specifications Section 3-8 page 8 states the Contractor will need to furnish 4 changeable message signs as shown on the plans. Can the City provide a plan indicating the location of the signs or indicate if they are required for this project?

Response #3: No changeable message signs will be required for this project.

Question #4: I would just like to ask for a copy of the specifications and drawings of this project. Would also like to know if you already have a pre-approved manufacturer and if this is subject for substitution.

Response #4: The specifications and drawings can be downloaded from the City of Petaluma’s Bid Opportunities webpage under Lucchesi Turf Field Replacement Contract Documents.
<https://cityofpetaluma.org/bid-opportunities-2/>

Hardcopies are available for purchase as specified in the Notice of Inviting Bids: 6. OBTAINING CONTRACT DOCUMENTS. from Digitech, 1340 Commerce St, STE K, Petaluma, CA, 94954

Separate purchase of the turf materials will be through a CMAS agreement with FieldTurf USA, Inc. The purchase of the turf material is not part of this bid and is not subject to substitution by the contractor. Other materials that are included in this bid are subject to the substitution procedures referenced in Technical Specifications Section 01 25 00.

Question #5: Will this project get changed to require Class B license for the contractor, or is it going to stay a requirement to have a Class A license?

Response #5: The work includes leveling, excavation, drainage, water service, and paving, and is within a public park, therefore a Class A license is required for this work. A manufacturer-certified installer is

required for the installation of the synthetic turf product with a D-12 license for synthetic products, refer to Technical Specifications Section 32 18 13.

Question #6: What is the water main size and its location in Maria Dr?

Response #6: The water main is a 10" (ten-inch) C900 line and is located approximately as shown on the City's GIS (see image below). Field verification shall be the responsibility of the contractor.



Question #7: Will the geotextile be provided by the contractor or owner?

Response #7: The geotextile Mirafi 140N will be provided by the owner through CMAS purchase, to be installed by the contractor. Please see Technical Specification 32 18 14.

Additional comments to document and clarify items discussed at the non-mandatory pre-bid meeting held on March 6, 2023:

Public comments regarding the field turf were received at the March 6, 2023, City Council Meeting and are available to view and download on the City's website at:

<https://cityofpetaluma.org/meetings/>

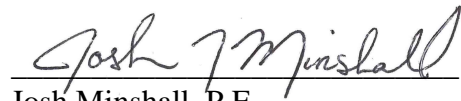
The water main pipe size was incorrectly stated at the pre-bid meeting. The corrected response is provided as a response to question #6 above.

Reuse and/or recycling of the existing turf material is necessary to meet the City's waste disposal requirements. Please refer to the FieldTurf Goal Zero for recycling. The contractor shall complete the Construction Waste Management Plan (CWM Form) prior to obtaining the building permit.

This Addendum No. 1 shall become part of the Contract and all provisions of the Contract shall apply thereto. Bidders shall acknowledge all Addendums in the Bid Schedule.

All other items of the documents shall remain unchanged. **A signed copy of this Addendum and the attached acknowledgement form shall be attached to the bid proposal. Failure to do so may cause rejection of your bid as being non-responsive.**

City of Petaluma,

A handwritten signature in black ink that reads "Josh Minshall". The signature is written in a cursive style and is positioned above a horizontal line.

Josh Minshall, P.E.
Senior Civil Engineer
Public Works & Utilities Department

Attachments:

Revised Sheets L3.0, L4.0 L5.0, and L6.0

Revised Bid Schedule

Construction Waste Management Plan CWM Form

Goal Zero – FieldTurf (Waste Diversion Handout)

ADDENDUM NO. 1

**LUCCHESI TURF FIELD REPLACEMENT PROJECT
City Project Number C14502008**

March 8, 2023

ACKNOWLEDGEMENT

Receipt of Addendum No. 1 is hereby acknowledged by _____
(Contractor's Name)

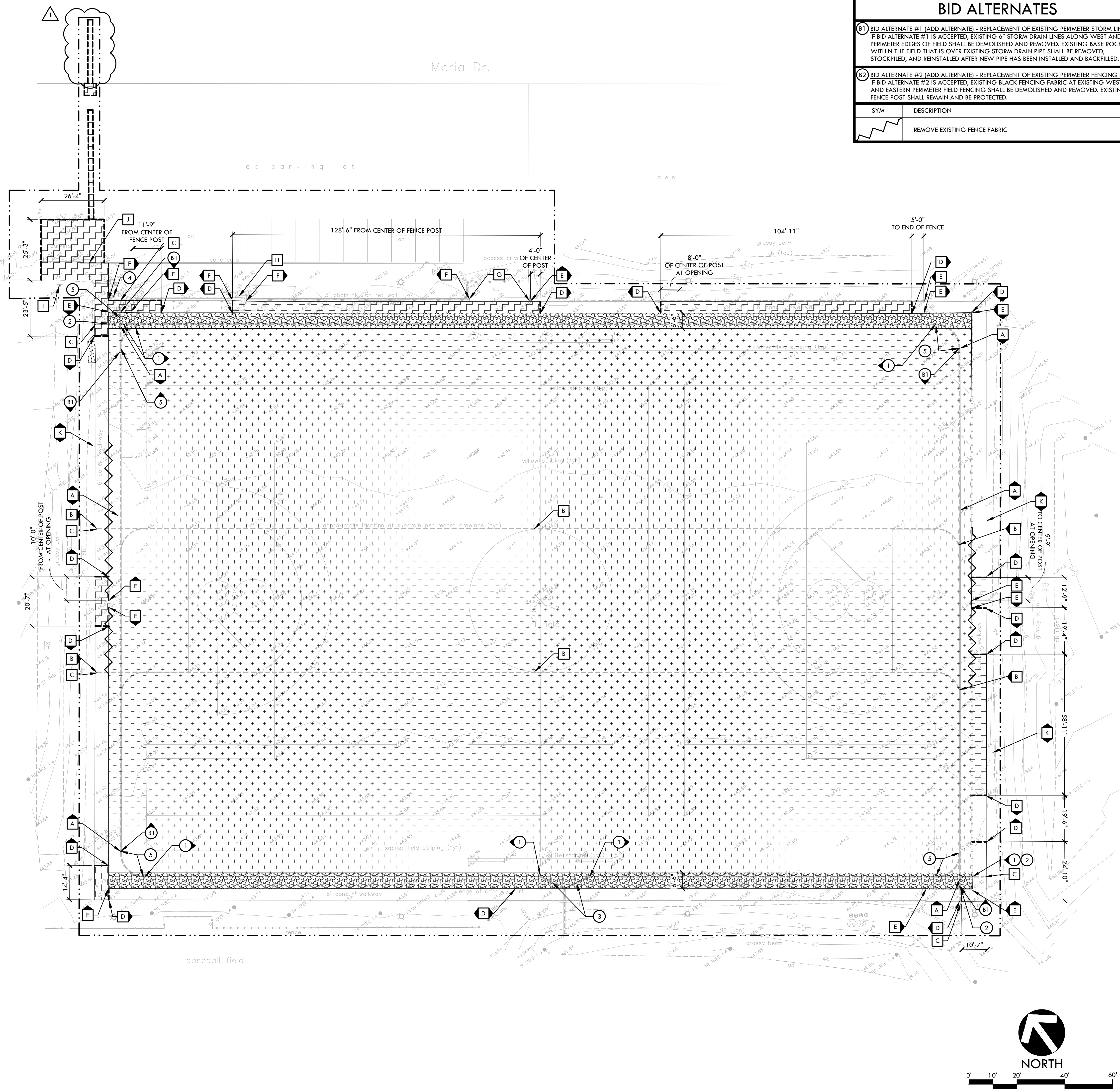
on the _____ day of _____, 2023.

By: _____
Signature

Title

Company

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BID ALTERNATES	
B1	BID ALTERNATE #1 (ADD ALTERNATE) - REPLACEMENT OF EXISTING PERIMETER STORM LINES IF BID ALTERNATE #1 IS ACCEPTED, EXISTING 6" STORM DRAIN LINES ALONG WEST AND EAST PERIMETER EDGES OF FIELD SHALL BE DEMOLISHED AND REMOVED. EXISTING BASE ROCK WITHIN THE FIELD THAT IS OVER EXISTING STORM DRAIN PIPE SHALL BE REMOVED, STOCKPILED, AND REINSTALLED AFTER NEW PIPE HAS BEEN INSTALLED AND BACKFILLED.
B2	BID ALTERNATE #2 (ADD ALTERNATE) - REPLACEMENT OF EXISTING PERIMETER FENCING FABRIC IF BID ALTERNATE #2 IS ACCEPTED, EXISTING BLACK FENCING FABRIC AT EXISTING WESTERN AND EASTERN PERIMETER FIELD FENCING SHALL BE DEMOLISHED AND REMOVED. EXISTING FENCE POST SHALL REMAIN AND BE PROTECTED.
SYM	DESCRIPTION
[Symbol]	REMOVE EXISTING FENCE FABRIC

- ### DEMOLITION NOTES
- THE CONTRACTOR SHALL PERFORM ALL CLEARING, DEMOLITION, REMOVAL OF OBSTRUCTIONS AND SITE PREPARATIONS NECESSARY FOR THE PROPER EXECUTION OF ALL WORK CONTAINED IN THE CONTRACT DOCUMENTS.
 - CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES AND PROVIDE THE REQUIRED COORDINATION FOR THEIR TEMPORARY DISCONNECTION, PROTECTION, REMOVAL AND/OR STORAGE AS MAY BE REQUIRED DURING CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH THE OWNER TO DETERMINE WHETHER TEMPORARY SERVICES ARE NECESSARY.
 - THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID SUBMITTAL TO DETERMINE THE EXACT EXTENT AND DEPTH OF SITE DEMOLITION REQUIRED AND VERIFY COMPLIANCE WITH DRAWINGS. THE OWNER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
 - THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES AND SERVICES SHOWN IN THE CONTRACT DOCUMENTS SHALL BE DEEMED TO BE APPROXIMATIONS ONLY. ALL DISCREPANCIES BETWEEN WHAT IS SHOWN AND THE ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) AT (800) 227-2600 PRIOR TO ANY DEMOLITION OR EXCAVATION. UPON COMPLETION OF USA MARKING OPERATIONS, CONTRACTOR SHALL RECORD ALL UTILITY MARKINGS ON A SEPARATE SET OF DRAWINGS. THIS SET SHALL BE KEPT ON-SITE FOR REFERENCE FOR DURATION OF CONTRACT. NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY SHOULD CONFLICTS ARISE AND REDIRECT WORK TO AVOID DELAY.
 - ALL EXISTING ITEMS ARE TO REMAIN UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING, AT CONTRACTOR'S EXPENSE, ANY EXISTING ITEM DAMAGED OR DESTROYED BY CONSTRUCTION OPERATIONS. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY AND ALL DAMAGES TO ADJACENT PROPERTIES. THE DAMAGED ITEMS SHALL BE RESTORED TO AN "AS-WAS" OR BETTER CONDITION OR REPLACED PER THE DISCRETION OF THE OWNER'S REPRESENTATIVE.
 - PRIOR TO ANY DEMOLITION WORK, CONTRACTOR SHALL INSTALL SELF-SUPPORTING INTERLOCKING CHAIN-LINK TEMPORARY CONSTRUCTION FENCING TO ENCLOSE AND SECURE THE PROJECT AREA LIMIT OF WORK. THE FENCING SHALL CONTAIN PEDESTRIAN AND/OR VEHICULAR ACCESS GATES AS NECESSARY AND SHALL BE MINIMUM 6 FEET HIGH WITH A TOP AND BOTTOM RAIL WITH KNUCKLED TOP AND BOTTOM SELVAGE (NO BARBED WIRE PERMITTED). ALL FENCE SHALL INCLUDE FULL HEIGHT SCREEN SHADE CLOTH COVERING. THE CONSTRUCTION FENCING WORK SHALL BE SUBJECT TO THE DISCRETION OF THE OWNER'S REPRESENTATIVE.
 - CONTRACTOR SHALL VIDEO EXISTING/REMAINING STORM DRAINAGE LINES WITHIN THE FIELD AND RELAY INFORMATION ON CONDITIONS OF THE EXISTING LINES TO THE OWNER'S REPRESENTATIVE.
 - CONTRACTOR SHALL FOLLOW THE CITY OF PETALUMA'S CONSTRUCTION WASTE MANAGEMENT PLAN. ADDITIONAL INFORMATION AND FORM CAN BE FOUND AT [HTTPS://CITYOFPETALUMA.ORG/DOCUMENTS/CONSTRUCTION-DEMOLITION-DEBRIS-RECYCLING-FORM/](https://CITYOFPETALUMA.ORG/DOCUMENTS/CONSTRUCTION-DEMOLITION-DEBRIS-RECYCLING-FORM/).

DEMOLITION LEGEND

SYM	DESCRIPTION
[Symbol]	LIMIT OF WORK / CONSTRUCTION FENCING
[Symbol]	EXISTING SYNTHETIC TURF, AND ASSOCIATED INFILL MATERIAL, SHALL BE REMOVED AND DISPOSED OF IN LEGAL MANNER. CONTRACTOR SHALL PERFORMED STRING LINING OF THE EXISTING FIELD BASE TO ENSURE BASE IS WITHIN CONFORMANCE STANDARDS SET WITHIN SPECIFICATIONS. ANY LOCATIONS FOUND TO BE OUT OF CONFORMANCE SHALL BE CORRECTED. CONTRACTOR SHALL LOOK AT ALTERNATE MEANS OF DISPOSAL OF SYNTHETIC TURF MATERIAL.
[Symbol]	CONTRACTOR SHALL REMOVE EXISTING PERMEABLE ROCK BASE, SUBDRAIN ROCK AND EXISTING PIPE, AND REPLACE WITH NEW SUBDRAIN TRENCH ROCK AND PIPE, REFER TO DETAIL A, SHEET LD1.0 AND SHEET LS.0 FOR ADDITIONAL INFORMATION.
[Symbol]	EXISTING HARDSCAPE PAVING, INCLUDING BASE MATERIALS AND HEADER BOARDS, TO BE DEMOLISHED AND REMOVED.
[Symbol]	CLEAR AND GRUB EXISTING VEGETATED AREA. EXISTING NATIVE MATERIAL TO BE CLEAR AND STRIPPED. STRIPPED MATERIAL TO BE OFF HAUL.
[Symbol]	SAWCUT EXISTING HARDSCAPE. WHEN SAWCUTTING OCCURS AT CONCRETE PAVING, SAWCUT SHALL BE MADE AT THE NEAREST CONCRETE JOINT.

- ### DEMOLITION ITEMS
- #### ITEMS TO BE DEMOLISHED AND/OR REMOVED
- PERFORATED SUBDRAIN LINE TO BE DEMOLISHED AND REMOVED
 - EXISTING STORM DRAIN CONNECTED TO CLEANOUT THAT GOES UNDER EXISTING PAVEMENT, SHALL BE CUT AND CAPPED AT EXISTING PAVEMENT EDGE AT LOCATIONS WHERE NEW JUNCTION BOXES WILL BE INSTALLED.
 - CONTRACTOR SHALL CUT AND DEMOLISH EXISTING STORM LINE AS NEEDED TO INSTALL NEW DRAINAGE STRUCTURE, REFER TO SHEET LS.0 FOR ADDITIONAL INFORMATION.
 - EXISTING DRINKING FOUNTAIN TO BE REMOVED. CONTRACTOR SHALL CUT AND CAP WATERLINE AND OTHER UTILITIES CONNECTED TO FOUNTAIN. CONTRACTOR SHALL ALSO GRIND DOWN ANY EXPOSED BASE HARDWARE (BOLTS, ANCHORS, ETC) AND IF THERE IS AN EXPOSED HOLE IN EXISTING CONCRETE BASE, FILL/PATCH/FABRICATE MATERIAL TO COVER HOLE. FOUNTAIN SHALL BE TURNED OVER TO CITY.
 - EXISTING STORM DRAIN LINE TO BE DEMOLISHED AND REMOVED

- #### ITEMS TO BE PROTECTED OR RELOCATED
- A EXISTING STORM DRAIN LINE TO REMAIN AND BE PROTECTED. CONTRACTOR SHALL CAMERA EXISTING STORM DRAIN LINES TO REMAIN TO ENSURE THAT ALL LINES ARE CLEAN AND STRUCTURALLY SOUND
 - B EXISTING PERFORATED SUBDRAIN LINE TO REMAIN AND BE PROTECTED.
 - C EXISTING CLEANOUT BOX TO REMAIN AND BE PROTECTED.
 - D EXISTING CONCRETE EDGE, AND HEADER BOARD, TO REMAIN AND BE PROTECTED.
 - E EXISTING CHAIN LINK FENCING TO REMAIN AND BE PROTECTED. FENCE ADJACENT TO PROPOSED PERIMETER PATH IMPROVEMENTS MAY BE REMOVED AND REPLACED AS DEEMED NECESSARY BY THE CONTRACTOR.
 - F EXISTING CONCRETE WALL AND FENCING TO REMAIN AND BE PROTECTED
 - G EXISTING ASPHALT DRIVEWAY TO REMAIN AND BE PROTECTED. CONTRACTOR SHALL REMOVE ASPHALT AT DRIVEWAY AS NEEDED TO INSTALL NEW CONCRETE AND PROVIDE SMOOTH TRANSITION BETWEEN BOTH MATERIALS (1/2" MAX.)
 - H EXISTING CONCRETE STAIRS TO REMAIN AND BE PROTECTED.
 - I POST TO REMAIN IN PLACE, SIGN TO BE REMOVED AND REPLACED WITH ADA SIGN
 - J WOODEN CURB TO REMAIN AND BE PROTECTED
 - K EXISTING DRAIN LINE ALONG BOTTOM OF SLOPE SHALL REMAIN AND BE PROTECTED. IF EXISTING DRAIN LINE AT DRINKING FOUNTAIN LOCATION IS IN CONFLICT WITH PROPOSED WORK, DRAIN SHALL BE CAPPED AT BOTH ENDS OF NEW FOUNTAIN PAD AND REMAIN IN PLACE.


VERDE DESIGN
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 Fax: 408.985.7260
 www.VerdeDesigninc.com

STAMP

 CONSULTANT

DEMOLITION PLAN
 SHEET TITLE

**LUCCHESI PARK
TURF REPLACEMENT
PROJECT**
 PROJECT NAME

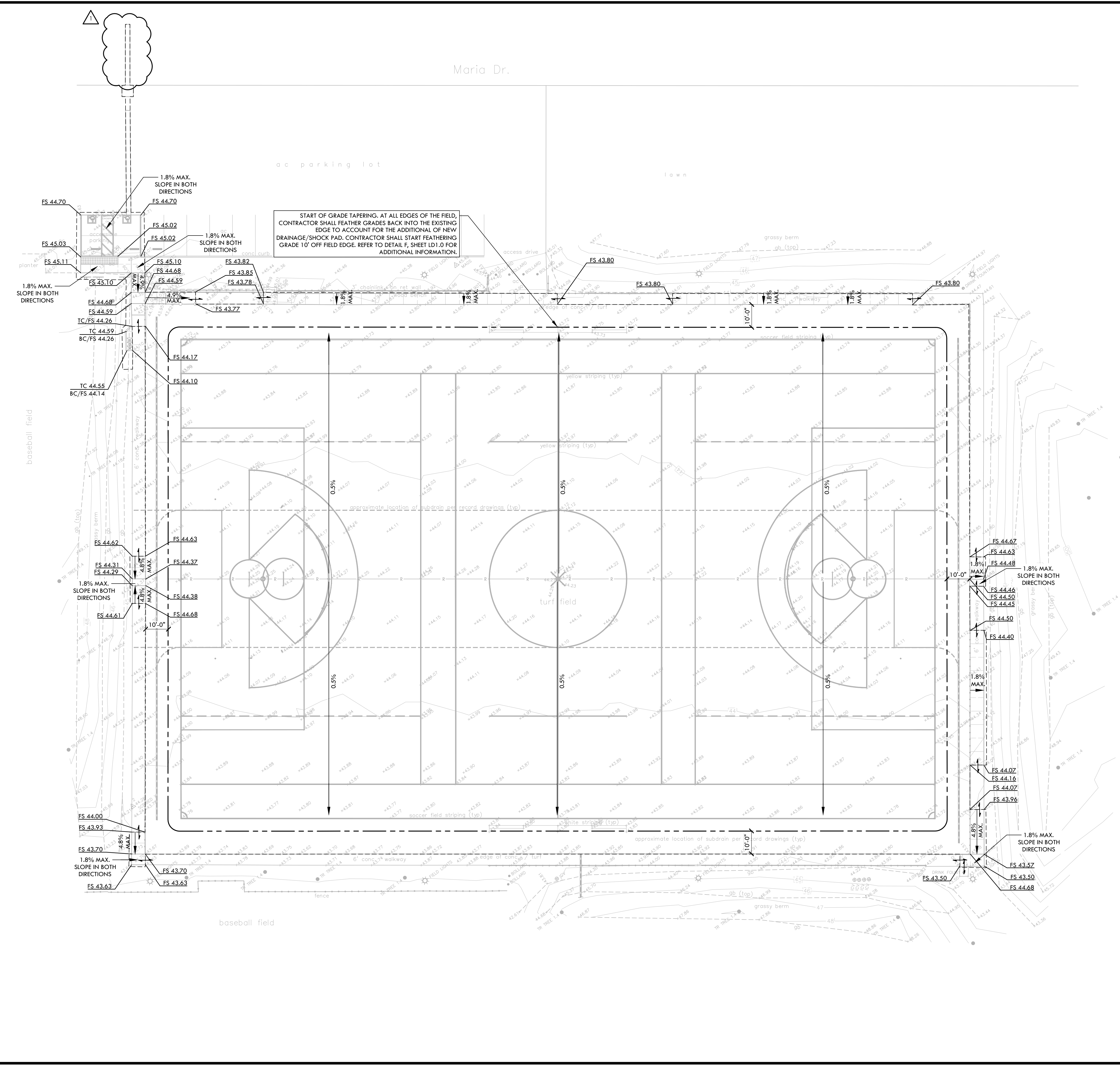
**320 N McDOWELL BLVD
PETALUMA, CA 94954**
 PROJECT ADDRESS

SUBMITTAL	DATE
DESIGN DEVELOPMENT SUBMITTAL	01/06/23
90% SUBMITTAL	02/03/23
BID SUBMITTAL	02/17/23

NO.	REVISIONS	DATE

DRAWN BY KL	CHECKED BY WD/DC
DATE ISSUED 02/17/23	SCALE 1"=20'-0"
PROJ. NO. 2108300	
SHEET NO. L3.0	

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GRADING NOTES

- EXISTING GRADES ARE BASED ON INFORMATION PROVIDED BY: CHAUDHARY & ASSOCIATES, INC. CONTRACTOR SHALL VERIFY EXISTING GRADES FOR ACCURACY PRIOR TO THE START OF GRADING, NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY SHOULD CONFLICTS ARISE AND REDIRECT WORK TO AVOID DELAY.
- THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES AND SERVICES SHOWN IN THE CONTRACT DOCUMENTS SHALL BE DEEMED TO BE APPROXIMATIONS ONLY. ALL DISCREPANCIES BETWEEN WHAT IS SHOWN AND THE ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL CONTACT UNDER GROUND SERVICE ALERT (USA) AT (800) 227-2600 PRIOR TO ANY DEMOLITION OR EXCAVATION. UPON COMPLETION OF USA MARKING OPERATIONS, CONTRACTOR SHALL RECORD ALL UTILITY MARKINGS ON A SEPARATE SET OF DRAWINGS. THIS SET SHALL BE KEPT ON-SITE FOR REFERENCE FOR DURATION OF CONTRACT.
- PROPOSED GRADES SHALL MEET EXISTING GRADES WITH A SMOOTH AND CONTINUOUS TRANSITION SO AS TO AVOID TRAPPING WATER. CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE IF PUDDLING IS SUSPECTED AND REDIRECT WORK SO AS TO AVOID DELAY WHILE AWAITING RESPONSE.
- ALL EXISTING DRAINAGE STRUCTURES, BOXES, UTILITY VAULTS ETC. SHALL BE BROUGHT TO FINAL FINISH GRADE PRIOR TO FINAL SURFACE TREATMENT.

GRADING LEGEND

SYM	DESCRIPTION	DETAIL NUMBER	SHEET NUMBER
- - - - -	LIMIT OF TAPER	F	LD1.0
- - - - -	LIMIT OF GRADING		
- - - - -	EXISTING RIDGE LINE		
FS 44.50	PROPOSED FINISH SURFACE ELEVATION OF HARDSCAPE		
TC 44.50	PROPOSED TOP OF CURB ELEVATION		
BC 44.50	PROPOSED BOTTOM OF CURB ELEVATION		
0.5%	SLOPE VALUE AND DIRECTION		
- - - - -	CONFORM TO EXISTING GRADE		
- - - - -	EXISTING CONTOUR		
+40.05	EXISTING ELEVATION		



STAMP
CONSULTANT

SHEET TITLE
GRADING PLAN

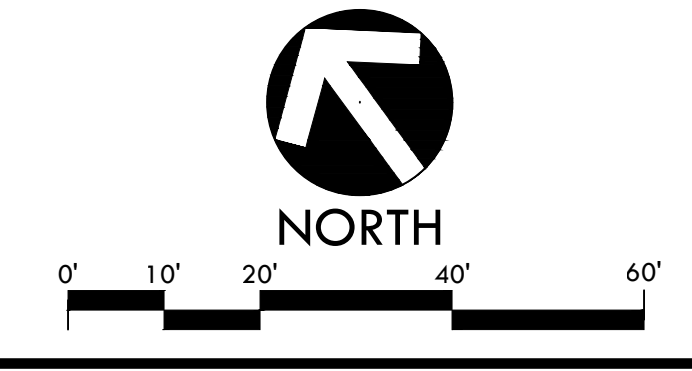
PROJECT NAME
LUCCHESI PARK TURF REPLACEMENT PROJECT

PROJECT ADDRESS
**320 N McDOWELL BLVD
PETALUMA, CA 94954**

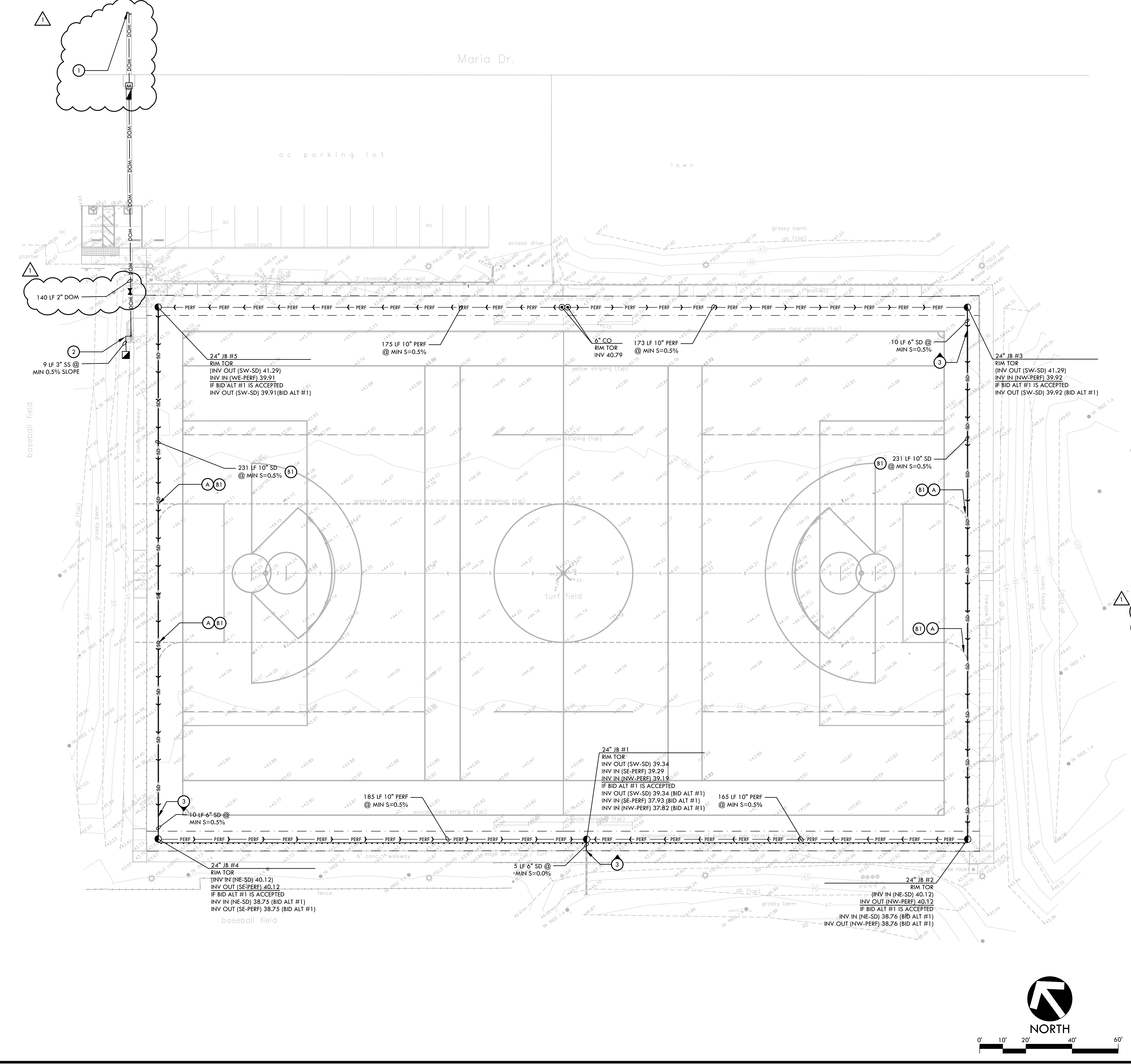
SUBMITTAL	DATE
DESIGN DEVELOPMENT SUBMITTAL	01/06/23
90% SUBMITTAL	02/03/23
BID SUBMITTAL	02/17/23

NO.	REVISIONS	DATE
△	ADDENDUM #1	03/08/23
△		
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△		
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DRAWN BY: **KL** CHECKED BY: **WD/DC**
 DATE ISSUED: **02/17/23** SCALE: **1"=20'-0"**
 PROJ. NO.: **2108300**
 SHEET NO.: **L4.0**



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- ### DRAINAGE NOTES
- THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES, AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES, AND SERVICES SHOWN IN THE CONTRACT DOCUMENTS SHALL BE DEEMED TO BE APPROXIMATIONS ONLY. ALL DISCREPANCIES BETWEEN WHAT IS SHOWN AND THE ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL CONTACT UNDER GROUND SERVICE ALERT (UGSA) AT (800) 227-2600 PRIOR TO ANY DEMOLITION OR EXCAVATION. UPON COMPLETION OF UGA MARKING OPERATIONS, CONTRACTOR SHALL RECORD ALL UTILITY MARKINGS ON A SEPARATE SET OF DRAWINGS. THIS SET SHALL BE KEPT ON-SITE FOR REFERENCE FOR DURATION OF CONTRACT.
 - ALL EXISTING DRAINAGE STRUCTURES, BOXES, UTILITY VAULTS ETC. TO REMAIN, SHALL BE BROUGHT TO FINAL FINISH GRADE PRIOR TO FINAL SURFACE TREATMENT.
 - THE CONTRACTOR IS TO PROTECT DRAINAGE SYSTEM FROM DEBRIS, INCLUDING SOIL, ROCK MATERIAL, AND TRASH FROM ENTERING THE PIPE DURING CONSTRUCTION. CONTRACTOR SHALL AVOID PLACING CONSTRUCTION VEHICLES OVER INSTALLED DRAINAGE TRENCHES TO PREVENT CRUSHING OF PIPE.
 - COORDINATE ALL SLEEVING AND UTILITY LOCATIONS AS SHOWN ON THE PLANS AND DETAILS CONTAINED WITHIN THESE CONTRACT DOCUMENTS.
 - THE CONTRACTOR IS TO ENSURE THAT ALL REMAINING ACTIVE AND NEW DRAINAGE AND UTILITY LINES ARE PROTECTED AND UNDEAMAGED FROM TRENCHING AND FOOTING EXCAVATIONS FOR NEW FOOTINGS, PARTICULARLY FOR NEW FENCING AND WALLS.
 - ALL ABANDONED STORM LINES SHALL REMAIN IN PLACE UNLESS IN CONFLICT WITH PROPOSED DRAINAGE, UTILITY, OR SUBGRADING OPERATIONS, IN WHICH CASE ABANDONED PIPE IN CONFLICT SHALL BE REMOVED. REMAINING ABANDONED STORM PIPE SHALL BE SEALED WITH APPROPRIATELY SIZED CONCRETE CAP (3 SACK MIX) 6" ENVELOPE OUTSIDE AND INSIDE DIAMETER OF PIPE.
 - PRIOR TO ALL DRAINAGE AND UTILITY WORK, CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL POTENTIAL DRAINAGE CONNECTIONS AND EXISTING UTILITY BY POT-HOLING. IN ADDITION, ALL DOWNSTREAM CONNECTIONS TO EXISTING STRUCTURES SHALL BE THE START OF THESE OPERATIONS, AND GRADES SHALL BE VERIFIED.

DRAINAGE LEGEND


SYM	DESCRIPTION	DETAIL NUMBER	SHEET NUMBER
●	JUNCTION BOX (JB), SIZE PER PLAN	B	UD1.0
⊙	CLEANOUT IN SYNTHETIC TURF (CO)	C	UD1.0
— —	PERFORATED HDPE SUBDRAIN LINE (PERF)	A	UD1.0
— —	PERFORATED DRAINAGE TRENCH	A	UD1.0
— —	SOLID WALL STORM DRAIN (SD)	H	UD1.0
■	DRY WELL	I	UD1.0
⋈	BALL VALVE	J	UD1.0
— —	SANITARY SEWER LINE (SS)	H	UD1.0
— —	DOMESTIC WATER LINE (DOM)	L	UD1.0
■	BACKFLOW PREVENTER, BACKFLOW SHALL BE 2" WILKINS 975XL BACKFLOW WITH STRONG BOX 588C-45CR ENCLOSURE	N	UD1.0
⊙	NEW WATER METER	M	UD1.0

NO.	DESCRIPTION
1	CONTRACTOR SHALL TIE IN NEW DOMESTIC WATER LINE INTO EXISTING 10" MAINLINE IN MARIA DRIVE. CONTRACTOR SHALL POTHOLE TO VERIFY ON SITE LOCATION OF EXISTING WATER LINE. CONTRACTOR SHALL REFER TO THE CITY OF PETALUMA WATER STANDARDS FOR MAINLINE CONNECTION PROCEDURES.
2	CONTRACTOR SHALL TIE IN NEW DOMESTIC WATER AND SANITARY SEWER LINE INTO DRINKING FOUNTAIN.
3	CONTRACTOR TO CONNECT NEW SD LINE TO EXISTING 6" SD LINE AT LOCATION SHOWN.
INV	INVERT
EXISTING INV	EXISTING INVERT
RIM	RIM ELEVATION
TOR	TOP OF ROCK ELEVATION
LF	LINEAR FEET
S=0.5%	SLOPE
MIN.	MINIMUM
N, S, W, EA,	NORTH, SOUTH, WEST, EAST
ROOT BARRIER (360 LF)	

BID ALTERNATES


B1	BID ALTERNATE #1 (ADD ALTERNATE) - REPLACEMENT OF EXISTING PERIMETER STORM DRAIN LINES WITHIN EXISTING FIELD. IF BID ALTERNATE #1 IS ACCEPTED, CONTRACTOR SHALL INSTALL NEW 10" STORM DRAIN LINE AND ADJUST INVERTS AS SHOWN ON THIS PLAN.
A	IF BID ALT #1 IS ACCEPTED, CONTRACTOR SHALL TIE EXISTING 4" STORM DRAIN LINE INTO NEW 10" STORM DRAIN LINE.

SYM	DESCRIPTION	DETAIL NUMBER	SHEET NUMBER
— —	SOLID WALL STORM DRAIN (SD)	H	UD1.0
A	IF BID ALT #1 IS ACCEPTED, CONTRACTOR SHALL TIE EXISTING 4" STORM DRAIN LINE INTO NEW 10" STORM DRAIN LINE.		



VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN

3558 Round Barn Blvd, Suite 200
Santa Rosa, CA 95403
Tel: 707.800.4204
Fax: 408.985.7260
www.VerdeDesign.com



REGISTERED PROFESSIONAL ENGINEER
DEVIN CONWAY
C-56494
EXPIRES: June 30, 2023

STAMP

CONSULTANT

SHEET TITLE

DRAINAGE AND UTILITIES PLAN

PROJECT NAME

LUCCHESI PARK TURF REPLACEMENT PROJECT

PROJECT ADDRESS

**320 N McDOWELL BLVD
PETALUMA, CA 94954**

SUBMITTAL	DATE
DESIGN DEVELOPMENT SUBMITTAL	01/06/23
90% SUBMITTAL	02/03/23
BID SUBMITTAL	02/17/23

NO.	REVISIONS	DATE
△	ADDENDUM #1	03/08/23

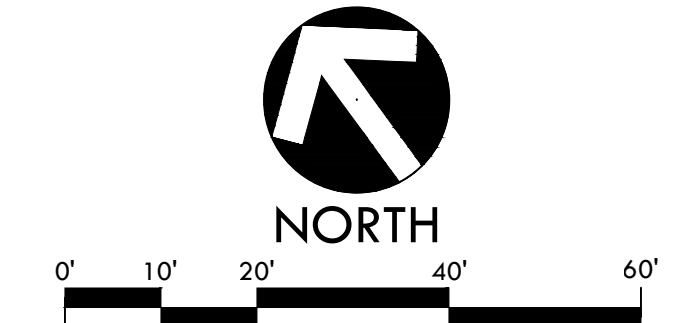
DRAWN BY	CHECKED BY
KL	WD/DC

DATE ISSUED	SCALE
02/17/23	1"=20'-0"

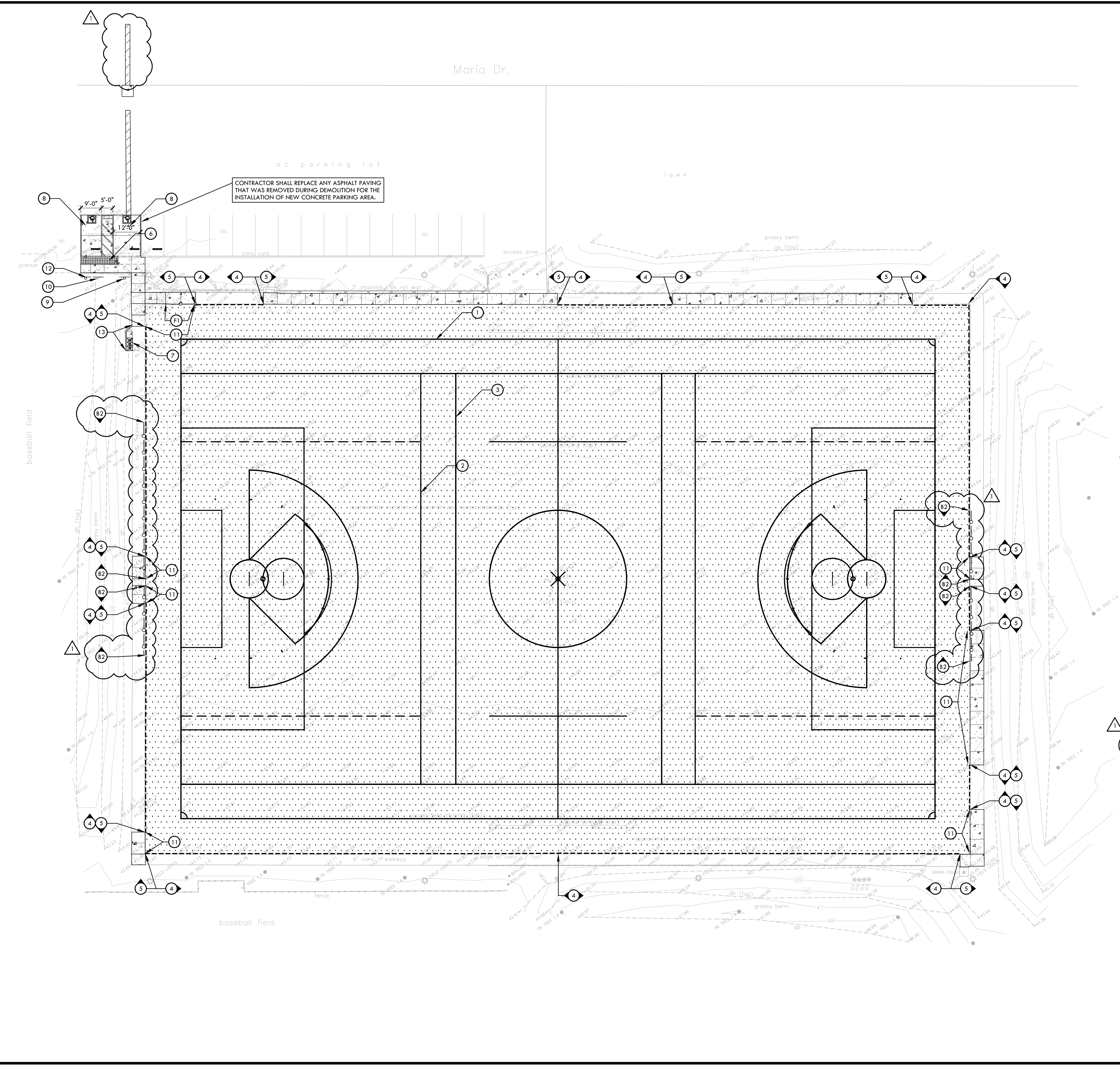
PROJ. NO. 2108300

SHEET NO. **L5.0**

DRAINAGE AND UTILITIES PLAN



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MATERIAL NOTES

1. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ELEMENTS INCLUDING UTILITY LOCATIONS AND REQUIRED SLEEVING PRIOR TO INSTALLATION. VERIFY CRITICAL DIMENSIONS, REFERENCE POINT LOCATIONS AND CONSTRUCTION CONDITIONS PRIOR TO INITIATING CONSTRUCTION. TEMPORARY BENCHMARKS OR REFERENCE POINTS SHALL BE SET BY THE CONTRACTOR AS NECESSARY. NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY SHOULD DISCREPANCY ARISE AND REDIRECT WORK TO AVOID DELAYS.
2. THE INTERFACE OF ALL PROPOSED IMPROVEMENTS TO EXISTING SITE SHALL CONFORM AND BE SMOOTH AND UNIFORM.
3. ALL REINFORCING AND FORMS SHALL BE SECURED IN PLACE AND ACCEPTED BY OWNER'S REPRESENTATIVE PRIOR TO PLACING ANY CONCRETE.
4. CONCRETE FINISHES SHALL BE AS NOTED. CONTRACTOR SHALL PROVIDE 4'X4' SAMPLES OF ALL SPECIFIED FINISHES OF CONCRETE USING THE SAME MATERIALS THAT WILL BE USED IN THE ACTUAL CONSTRUCTION FOR EACH TYPE SPECIFIED. SAMPLES SHALL BE PREPARED WELL ENOUGH IN ADVANCE OF SCHEDULED CONCRETE POUR TO ALLOW FOR REVIEW AND POSSIBLE RE-POURING OF UNACCEPTABLE SAMPLES. UNACCEPTABLE SAMPLES SHALL BE RE-PREPARED UNTIL ACCEPTED BY THE OWNER'S REPRESENTATIVE. ACCEPTED SAMPLES SHALL BE PROTECTED AND REMAIN ON SITE FOR REFERENCE UNTIL FINAL ACCEPTANCE.
5. CONTRACTOR SHALL PROVIDE AN ALLOWANCE FOR CONCRETE MOCKUPS PER SPECIFICATIONS SECTION 32 32 13.

MATERIAL LEGEND

SYM	DESCRIPTION	DTL
(E)	SYNTHETIC TURF (OWNER FURNISHED, CONTRACTOR INSTALLED)	UD1.0
(A)	CONCRETE PAVING. CONTRACTOR SHALL DOWEL ALL NEW CONCRETE INTO EXISTING CONCRETE AT 24" O.C. DOWELING INTO ADJACENT WALL SHALL BE 48" O.C.	UD2.0
(H)	ASPHALT PAVING - VEHICULAR	UD2.0
(B)	EXPANSION JOINT	UD2.0
(S)	SCORE JOINT	UD2.0
(G)	3' TALL CHAIN LINK FENCE	UD2.1
(1)	70 X 110 YD SOCCER FIELD STRIPING (WHITE)	UD2.1
(2)	BOYS LACROSSE FIELD STRIPING (YELLOW)	UD2.1
(3)	GIRLS LACROSSE FIELD STRIPING (BLUE)	UD2.1
(4)	SYNTHETIC TURF CONNECTION AT EXISTING EDGE/PAVING/CURB	UD1.0
(5)	SYNTHETIC TURF CONNECTION AT NEW CONCRETE. NEW HEADER BOARD TO ALIGN AND BE FLUSH WITH EXISTING HEADER BOARD ON EACH SIDE.	UD1.0
(E)	TRUNCATED DOMES	UD2.0
(7)	DRINKING FOUNTAIN	UD2.1
(8)	ACCESSIBLE PARKING STALLS	UD2.0
(9)	ACCESSIBLE PARKING SIGN - VAN	UD2.0
(10)	ACCESSIBLE PARKING SIGN ON EXISTING POST	UD2.0
(11)	CONCRETE THICKENED EDGE	UD2.0
(12)	PARKING TOW AWAY SIGN	UD2.0
(13)	6" CURB	UD2.0

BID ALTERNATES

- (B2) BID ALTERNATE #2 (ADD ALTERNATE) - REPLACEMENT OF EXISTING PERIMETER FENCING FABRIC. IF BID ALTERNATE #2 IS ACCEPTED, CONTRACTOR SHALL INSTALL NEW BLACK FENCE FABRIC. REFER TO SPECIFICATION SECTION 32 31 13 FOR ADDITIONAL INFORMATION.
- | SYM | DESCRIPTION |
|------|------------------------|
| (B2) | NEW BLACK FENCE FABRIC |



CONSULTANT

SHEET TITLE
**MATERIAL AND
DETAIL REFERENCE
PLAN**

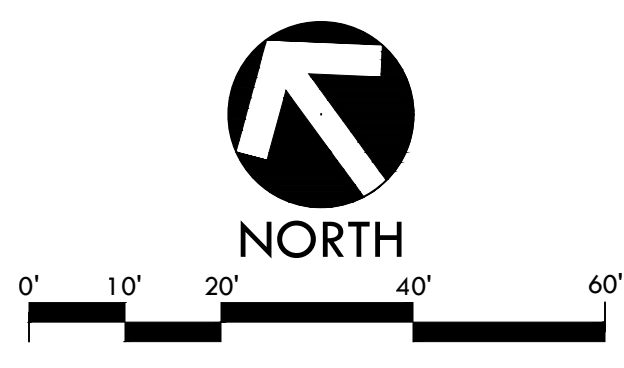
PROJECT NAME
**LUCCHESI PARK
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PROJECT**

PROJECT ADDRESS
**320 N McDOWELL BLVD
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▲	ADDENDUM #1	03/08/23
▲		
▲		
▲		
▲		

DRAWN BY: **KL** CHECKED BY: **WD/DC**
 DATE ISSUED: **02/17/23** SCALE: **1"=20'-0"**
 PROJ. NO.: **2108300**
 SHEET NO.: **L6.0**



BID SCHEDULE

Item No.	Description	Estimated Quantity	Unit	Unit Price	Total Price
1	Synthetic Turf Removal and Disposal	86,660	sf		
2	Clear and Grub	30	sf		
3	Rock/Pipe Removal at Ex Perimeter Drains	80	cy		
4	Flush /Video Existing Drainage System	1	ls		
5	Hardscape Demolition	3,071	sf		
6	Saw Cut	360	lf		
7	Drinking Fountain Demolition	1	ea		
8	Miscellaneous Demolition	1	ls		
9	Tapering of Rock along edges to receive drainage / shock pad	11,621	sf		
10	Fine Grade / stringline field rock base	75,030	sf		
11	Video Existing Storm Line	1	ls		
12	Drain Rock	481	tons		
13	10" Perforated Drain Line	698	lf		
14	6" Storm Drain Line	25	lf		
15	6" Cleanout	2	ea		
16	24" Junction Box	5	ea		
17	Miscellaneous Drainage Installation	1	ls		
18	2" Domestic Water Line	140	lf		
19	3" Sanitary Sewer Line	9	lf		
20	Dry Well	1	ea		
21	Ball Valve	1	ea		
22	Water Meter	1	ea		
23	Backflow Preventer with Enclosure	1	ea		
24	Miscellaneous Water line installation	1	ls		
25	Synthetic Turf Install, Shock Pad/Drain Tile, and Fabric Install	1	ls		
26	Concrete Paving and Rough Grading	2,917	sf		
27	Concrete thickened Edge	157	lf		
28	Synthetic Turf Connection	376	lf		
29	ADA Parking Striping	1	ls		
30	Wheel Stop	2	ea		
31	ADA Parking Sign	2	ea		

Item No.	Description	Estimated Quantity	Unit	Unit Price	Total Price
32	Truncated Domes	1	ea		
33	3' Tall Chain Link Fencing	13	lf		
34	6" Concrete Curb	13	lf		
35	Drinking Fountain - Elkay	1	ea		
36	Root Barrier	360	lf		
37	Tow Away Sign	1	ea		
38	Asphalt Paving (including backfill at Parking)	154	sf		
39	Mobilization and Demobilization	1	ls		
Total Estimated Base Bid					

OPTIONAL BID ITEMS

Item No.	Description	Estimated Quantity	Unit	Unit Price	Total Price
1	Replace Ex Storm Drain lines	1	ls		
2	Replace Ex Fencing Fabric	161	lf		

***Note:** In case of error in extension of price into the total price column, the unit price will govern.

Total Amount of Bid (written in words) is: _____ _____ Dollars and _____ Cents. In the event of discrepancy between words and figures, the words shall prevail. \$ _____ Figures

The award of the contract shall be awarded to the lowest price of the total of Base Bid items 1 through 39. Options Bid items should NOT be included in the Base Bid Price.

Address of Bidder

Signature of Bidder

City

Name of Bidder (Print)

Telephone Number of Bidder

Fax Number of Bidder

Contractor's License Number

License's Expiration Date

Addendum Acknowledgement

Addendum No. 1 Signature Acknowledging Receipt: _____ Date: _____

Addendum No. 2 Signature Acknowledging Receipt: _____ Date: _____

Addendum No. 3 Signature Acknowledging Receipt: _____ Date: _____

Addendum No. 4 Signature Acknowledging Receipt: _____ Date: _____

Addendum No. 5 Signature Acknowledging Receipt: _____ Date: _____

Addendum No. 6 Signature Acknowledging Receipt: _____ Date: _____

Addendum No. 7 Signature Acknowledging Receipt: _____ Date: _____

Addendum No. 8 Signature Acknowledging Receipt: _____ Date: _____



Community Development Department

11 English Street
Petaluma, CA 94952

<http://cityofpetaluma.org>

Building Division

Phone: (707) 778-4301

To schedule inspections: (707) 778-4479

Email: building@cityofpetaluma.org

Online Permit Portal Link: <https://petalumaca-energovweb.tylerhost.net/apps/SelfService#/home>

CONSTRUCTION WASTE MANAGEMENT PLAN (CWM FORM)

The City of Petaluma **requires** that construction/demolition waste generated at a site is either diverted to recycle or salvage at a minimum of 65% for all projects. All contractors/owner-builder are **required** to complete this checklist prior to obtaining a building or demolition permit.

At the conclusion/end of the project, the contractor must report all tons recycled and disposed by material type and file a Construction and Demolition Recycling Report with the City of Petaluma Building Department **prior to final inspection and/or issuance of the Certificate of Occupancy.**

Date: _____ Building Permit#: _____

Type of Project: Construction Demolition Roofing Elect, Mech, Plumb Other: _____

Project Name: _____ Project Size: _____ sq.ft.

Jobsite address: _____

Contractor's Name _____ Phone# _____ Email _____

Owner's Name _____ Phone# _____ Email _____

This construction waste management plan is hereby submitted to comply with either Section 4.408.2 (Residential) or Section 5.408.1.1 (Non-Residential) of the 2019 California Green Building Standards Code.

The purpose of this plan is to identify and outline the methods to be used as the minimum requirements for a construction waste management plan when the local jurisdiction does not have a construction and demolition waste management ordinance per Section 4.408.2 (Residential) or Section 5.408.1.1 (Non-Residential)

** Insert title of appropriate party or responsible person, which may include, but not be limited to: Contractor(s), Subcontractor(s), Project Manager(s), Superintendents(s), Supplier(s), or Waste Hauler(s).*

1. The method of waste tracking to be used on this project we be: (Check one box)
 Volume **Weight** **4 Lbs. Per Sq. Ft** **Recycling Facility**

2. Construction waste generated on this project for transport to a recycling facility will be:
 Sorted On-Site (Source-separated) **Sorted Off-Site (Single stream)**

3. The Disposal Service or Hauling Facility (or Facilities), where the construction waste material will be taken is:

Name of Facility: _____

Address: _____

Phone #: _____

(ATTACH SEPARATE SHEET FOR ADDITIONAL FACILITIES)

4. The following construction methods will be used to reduce the amount of waste generated:
(Check all that apply)
- Efficient design (dimensions of building components are designed to available material sizes or standard sizes)
 - Careful and accurate material ordering.
 - Careful material handling and storage.
 - Panelized or Prefabricated construction.
 - Other _____
 - Other _____
5. Waste reduction and recycling strategies shall be discussed at periodic project meetings. Each new [Contractor]* that comes onto the site shall be provided with a copy of the CWMP, which shall also be posted in the project office. The [Project Manager]* shall also instruct all [Subcontractors]* as to the location and proper use of debris boxes for disposal of construction waste materials.
6. Every effort shall be made to use recycling and/or reuse (diversion) measures to reduce the amount of construction waste and other materials sent to landfills. Whenever possible, site-sorted debris boxes shall be used to segregate construction waste materials to maximize the diversion rate.
7. The [Contractor]* shall provide debris boxes for materials sorted on-site (source-separated) and/or bulk mixed (single stream) waste for all construction related waste generated on this project. Mixed construction waste shall be taken to a recycling facility that has a diversion rate of at least 65 percent. In the event that a [Subcontractor]* provides their own debris box, they shall be responsible for providing the [Contractor]* with a monthly report of the total Recycled and Reused (Diverted) and the total Non-Recycled (Disposed) materials to be included in the project's overall waste management/waste reduction program.
8. Any [Supplier]* hauling away packaging or waste materials shall notify the [Contractor]* of the amount of these materials and how they will be disposed of (reused, recycled, salvaged, or take to landfill).

9. Identified below are the construction waste materials that will be reused and/or recycled during this project and how they will be diverted:

Material Type	Recycled/ Reused (in tons or %)	Amount Disposed (in tons or %)	Hauler or Destination (weight receipts & tickets must be attached for final report)	Method of Transport (Self-Haul or site collection, please note if different in final report)
Asphalt				
Dirt/Clean Fill				
Concrete/Grinding				
Brick/Rocks				
Mixed Materials				
Drywall/Sheetrock				
Lumber				
Roofing				
Metals				
Cardboard				
Salvaged Items				
Other:				
Other:				
Other:				
Total Diversion				

10. The [**Waste Hauler**]* shall track the total amount of construction waste leaving the project by weight or by volume and supply the [**Contractor**]* with copies of tickets or detailed receipts from all loads of construction waste removed from the jobsite.
11. The [**Contractor**]* shall monitor the process of waste management recycling and reuse of construction waste materials to ensure compliance with the CWMP during the course of the project.
12. The [**Contractor**]* shall ensure that all supporting documentation which demonstrates compliance with the waste management plan is provided to the local enforcement agency upon completion of the project.

**Insert title of appropriate party or responsible person, which may include, but not be limited to: Contractor(s), Subcontractor(s), Project Manager(s), Superintendents(s), Supplier(s), or Waste Hauler(s).*

Community Development Department · City of Petaluma, California

Notes: _____

If you have nothing to report, please explain: _____

Contractor/
Owner-Builder Signature: _____ Date: _____

Print Name: _____

Please call 707-778-4301 or e-mail building@cityofpetaluma.org for further assistance.

Office only:

Approval: _____ Date: _____
Building Official

Print Name: _____

Conversion Table

To calculate the percentage of materials recycled and/or reused:

To determine the percentage of materials recycled/reused, divide the number of tons which were recycled/reused by the TOTAL tonnage generated by the job.

$$\text{Percent Recycled/Reused} = \frac{\text{recycling} + \text{reused tons}}{\text{recycling tons} + \text{reused tons} + \text{disposed tons}}$$

Example: 1-ton recycling + 1-ton reused 2

1-ton recycling + 1 ton reused + 2 tons disposal 4

0.5 (multiply 0.5 by 100 = 100%)

Salvaged Materials:

Please estimate the quantity of material recycled/reused. Your estimates should be provided in tons.

Example: 25 pounds + 2000 pounds = 0.02 tons

How to convert pounds to tons:

To convert pounds to tons, divide the number by pounds by 2000 pounds. 1-ton = 2,000 pounds

Example: 700 pounds + 2000 pounds = 0.35 tons

How to convert cubic yards to tons:

Select the type of material recycled/reused from the chart to the right.

Multiply the corresponding number by the total number of cubic yards recycled/reused.

1 cubic yard of asphalt = 0.69 tons

Example: 5 cu. yds of asphalt = 5 x 0.69 = 3.45 tons

Material Type	Tons per Cubic Yard
Asphalt	0.69
Brick	1.51
Cardboard	0.05
Concrete	0.93
Dirt/Clean Fill	1.00
Drywall/Sheetrock	0.20
Lumber	0.17
Plastic	0.17
Roofing Materials	.21
Metals	0.45
Mixed Materials	0.25
Green Waste	0.05

GOAL ZERO

FieldTurf's commitment to **divert 100%** of job site and manufacturing waste from landfills by 2025 in North America.
An Industry-First

▼ THE ROAD TO GOAL ZERO

1

FIELD REMOVAL

The aged carpet and infill is removed from the venue and prepared for transport.



2

INFILL REGENERATION

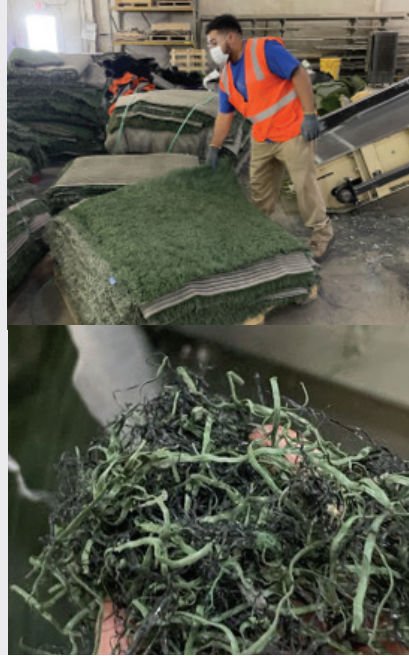
The carpet rolls are sent to a Tarkett Sports facility in Oregon to extract the infill, clean it, and separate for reuse.



3

CARPET RECYCLING

The aged carpet is sent to *Circular Polymers* in California to be cut, processed, and refined into a blend.



4

PRODUCT MANUFACTURING

Using a proprietary process that upcycles the material into a high-grade polyurethane & polypropylene blend, the carpet can be transformed into various products like nailer boards, planters, and park benches.



GOAL ZERO 

See Goal Zero in action at Mercedes-Benz Stadium, home of the NFL's Atlanta Falcons and Atlanta United of Major League Soccer. All components of the field avoided being sent to landfills in the replacement of the surface in February 2022.