



**CITY OF LAKEWOOD
CALIFORNIA**

**PUBLIC WORKS SPECIFICATIONS FOR
BLOOMFIELD PARK PLAY AREA IMPROVEMENTS**

PROJECT NO. 24-04

PREPARED BY

CITY OF LAKEWOOD
5050 CLARK AVENUE
LAKEWOOD, CA 90712

NOVEMBER 11, 2025

CITY OF LAKEWOOD
SPECIFICATIONS FOR
BLOOMFIELD PARK PLAY AREA IMPROVEMENTS
PROJECT NUMBER 24-04

Approved By:



Dario Simoes, P.E.
Assistant Director of Public Works/City Engineer
License No. 76487

11/11/2025

Date



CITY OF LAKEWOOD

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PROJECT NO. 24-04**

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**CITY OF LAKEWOOD
NOTICE INVITING BIDS FOR CONSTRUCTION OF
BLOOMFIELD PARK PLAY AREA IMPROVEMENTS
PROJECT NO. 24-04**

NOTICE IS HEREBY GIVEN that sealed bids for the **Bloomfield Park Play Area Improvements** ("Project"), **Project Number 24-04**, located at 21420 Pioneer Boulevard, City of LAKEWOOD, will be received at the Office of the City Clerk at 5050 Clark Avenue, Lakewood, CA, 90712, until 11:00 am on Tuesday, December 2nd 2025, at which time they will be publicly opened and read aloud.

PRE-BID MEETING: A non-mandatory pre-bid meeting will be held at the jobsite, Bloomfield Park Play Area, 21420 Pioneer Boulevard, Lakewood, CA, on Tuesday, November 18, 2025, at 2:00 pm. The meeting is **not mandatory** but attendance is highly encouraged.

DESCRIPTION OF THE WORK: In general, the work is comprised of public works construction for the replacement of the play area improvements to the existing Bloomfield Park in Lakewood, California. The work generally consists of demolition, grading, concrete foundations, play equipment installation, shade structure installation, rubberized surfacing, drainage improvements and miscellaneous related improvements required by the contract documents. Contractor to fence site during construction, remove existing play equipment, footings and sand. Contractor to furnish, assemble, and install play equipment, shade structure and resilient surfacing all as shown on the Plans, described in the Specifications, and as required to complete the work per the contract documents.

OBTAINING OR INSPECTING CONTRACT DOCUMENTS: Contract Documents are available to purchase in portable document form (PDF) on a flash drive at the City Clerk's office. The purchase cost of the flash drive is \$10 if picked up or \$20 if mailed. It is the contractor's responsibility to ensure they are on the City's Plan Holder's List and they obtain any addenda or clarifications that are issued by the City on the City's website prior to submitting a bid. For any questions regarding acquisition of Contract Documents, contact the City Clerk at cityclerk@lakewoodca.gov.

BID PROPOSAL AND BOND: No bid will be considered unless it is made on a Proposal form furnished by the City. No Bidder may withdraw its Proposal for a period of ninety (90) days after the time set for opening thereof. Each bid must be accompanied by cash, a certified cashier's check, or a bidder's bond made payable to the City of Lakewood for an amount equal to at least ten percent (10%) of the amount bid, such guarantee to be forfeited should the bidder to whom the contract is awarded fail to furnish the required bonds and insurance and enter into a contract with the City within the period of time provided by the proposal requirements. In the event that a surety bond is submitted in lieu of the foregoing, it shall be subject to the condition that the surety thereon and the form of the bond be approved by the City Attorney.

AWARD OF CONTRACT: The City reserves the right after opening bids to reject any or all bids, to waive any informality in a bid, or to make award to the lowest responsive, responsible Bidder as determined by the Proposal, and reject all other bids, as it may best serve the interest of the City. Within three (3) days of bid opening, the apparent low Bidder must submit a revised bid bond with numerical dollar values, both in words and with digits of the Bid Bond amount. Within ten (10) working days after the date of the formal Notice of Apparent Low Bidder, the successful Bidder will be required to submit the fully executed Contract Agreement, Bonds (Faithful Performance and Payment (Material and Labor)) and Insurance, all meeting the standards of the City.

CONTRACTOR'S LICENSE CLASSIFICATION: The Contractor shall possess a valid Class A Contractors License, or any combination of Class C Contractors Licenses, as necessary to perform the work, at the time of contract award, in accordance with provisions of Chapter 9, Division III of the California Business and Professions Code. The playground installer must have factory playground installation Certification by PlayPower, Inc. Installer must have successfully completed the requirements to be recognized as a PlayPower LT Farmington, Inc Factory Certified Installer of Little Tikes Commercial Playground equipment.

WAGE RATE REQUIREMENTS: The wage rates applicable to this Project are the State of California Department of Industrial Relations prevailing rates of per diem wages. In accordance with the provisions of Sections 1773.2 of the California Labor Code, copies of the general prevailing rate of per diem wages as determined by the State Director of Industrial Relations are available at City Hall, which shall be made available to any interested party upon request, or on the Internet at the State Department of Industrial Relations website <https://www.dir.ca.gov/Public-Works/Prevailing-Wage.html>. It shall be mandatory upon the Contractor to whom the contract is awarded and upon any subcontractor to pay not less than said specified rates to all workers employed by them in the execution of the contract. A copy of said rates shall be posted at each job site during the course of construction. The Contractor and all subcontractors shall comply with all provisions of the California Labor Code relating to prevailing wage rates, including Sections 1770–1781.

This Project is subject to compliance monitoring and enforcement by the Department of Industrial Relations. The Department of Industrial Relations shall monitor and enforce compliance with applicable prevailing wage requirements for the contract. The reporting requirements may be found at <https://www.dir.ca.gov/Public-Works/Contractors.html>. The Contractor is responsible for complying with all requirements of the Department of Industrial Relations, including filing electronic payroll reports.

A contractor or subcontractor will not be qualified to bid on, be listed in a bid Proposal, subject to the requirements of Section 4104 of the Public Contract Code, or engage in the performance of any contract for public work on a public works project unless registered with the Department of Industrial Relations pursuant to Labor Code Section 1725.5. It is not a violation of Labor Code Section 1771.1 for an unregistered contractor to submit a bid that is authorized by Section 7029.1 of the Business and Professions Code or by Section 10164 or 20103.5 of the Public Contract Code, provided the contractor is registered to perform public work pursuant to Section 1725.5 at the time the contract is awarded.

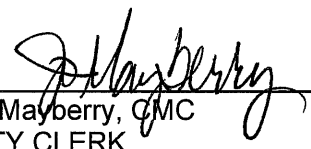
EQUAL OPPORTUNITY: The City of Lakewood hereby notifies all bidders that it will affirmatively insure that in any contract entered into pursuant to this advertisement, minority business enterprises will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, disability, sex or national origin in consideration for an award.

RETENTION FROM PAYMENTS: The Contractor may elect to receive 100 percent of payments due under the Contract Documents from time to time, without retention of any portion of the payments by the City, by depositing securities of equivalent value with the City in accordance with the provisions of Section 22300 of the Public Contract Code. If the Contractor chooses not to exercise its rights under Public Contract Code Section 22300, the full five percent (5%) retention will be deducted from all payments. The final retention will be authorized for payment thirty-five (35) days after the date of recordation of the Notice of Completion, if no Stop Notices or liens have been filed. The City may withhold from release of the final retention amounts authorized under Public Contracts Code Section 7107 and/or 125% of amounts identified in accordance with any received Stop Notices.

Dated this 11th day of November, 2025.

City of LAKEWOOD, California

BY


Jo Mayberry, GMC
CITY CLERK
5055 Clark Avenue
Lakewood, CA 90712

CITY OF LAKEWOOD
INSTRUCTIONS TO BIDDERS
FOR
BLOOMFIELD PARK PLAY AREA IMPROVEMENTS
PROJECT NUMBER 24-04

1. PROPOSAL FORMS

Bids shall be submitted in writing on the Proposal forms provided by the City of LAKEWOOD (hereinafter "CITY").

All blank spaces in the bid forms must be correctly filled in and all information requested therein must be clearly and legibly set forth in the manner and form indicated. All spaces for bid prices and lump sum price for which the bid is made, must be filled in, in both words and figures. All prices and notations must be in ink or typewritten. No erasures will be permitted. Mistakes may be crossed out and corrections typed or written in ink adjacent thereto and must be initialed by the person or persons signing the bid. Bidder acknowledges and agrees that by failing to complete the bid forms in their entirety, as set forth above, the CITY may find the Bidder's entire bid non-responsive and may cause the rejection of the Bidder's Proposal at the discretion of the CITY.

2. PROPOSAL GUARANTEE (BID BOND)

In accordance with Public Contract Code Section 20170, Proposals must be accompanied by a Proposal guarantee consisting of either cash, a cashier's check, a certified check or bid bond payable to the CITY in the minimum amount of ten percent (10%) of the total amount bid. Bond's shall be executed by a California admitted insurer with a Best's Rating of A:VII or Better. Any Proposal not accompanied by such a guarantee will not be considered. Within three (3) days of bid opening, the apparent low Bidder must submit a revised bid bond with numerical dollar values, both in words and with digits of the Bid Bond amount. Within ten (10) working days after the date of the formal Notice of Apparent Low Bidder, the successful Bidder will be required to submit the fully executed Contract Agreement, Bonds (Faithful Performance and Payment (Material and Labor)) and Insurance, all meeting the standards of the City. **IF A BIDDER TO WHOM A CONTRACT IS AWARDED FAILS OR REFUSES TO EXECUTE THE CONTRACT DOCUMENTS OR FURNISH THE REQUIRED INSURANCE POLICIES AND BONDS AS SET FORTH IN THOSE DOCUMENTS, THE PROPOSAL GUARANTEE SHALL BE FORFEITED TO THE CITY.** The Proposal guarantees of all Bidders will be held until the successful Bidder has properly executed all Contract Documents.

3. NON-COLLUSION AFFIDAVIT

Bidder shall declare that the only persons or parties interested in the Proposal as principals are those named therein; that no officer, agent, or employee of the CITY is personally interested, directly or indirectly, in the Proposal; that the Proposal is made without connection to any other individual, firm, or corporation making a bid for the same work; and that the Proposal is in all respects fair and without collusion or fraud. The Non-Collusion Affidavit included herein shall be executed and submitted with the Proposal.

4. BID PROPOSAL

Bidders shall give unit prices for each and all of the items set forth. No aggregate bids will be considered. The Bidder shall set forth for each item of work, in clearly legible figures, a unit item price and a total for the item in the respective spaces provided for this purpose. The quantities listed in the Bid sheets are supplied to give an indication of the general scope of work, but the accuracy of figures is not guaranteed and the Bidder shall make his own estimates from the Plans. In case of a variation between the unit price and the totals shown by the Bidder, the unit price will be considered to be the bid.

5. DELIVERY OF PROPOSAL

Proposals shall be submitted in a form as specified by City (may be mailed or delivered by messenger). However, it is the Bidder's sole responsibility to ensure delivery of the Proposal to the hands of the CITY's designated official prior to the bid opening time deadline set forth in the "Notice Inviting Sealed Bids." Late Proposals will not be considered and will be returned to the Bidder unopened. Proposals shall be enclosed in a sealed envelope plainly marked on the outside, "BLOOMFIELD PARK PLAY AREA IMPROVEMENTS - DO NOT OPEN WITH REGULAR MAIL."

6. WITHDRAWAL OF PROPOSALS

A Proposal may be withdrawn by a written request signed by the Bidder. Such requests must be delivered to the CITY's designated official by Certified Mail or personal delivery prior to the bid-opening time deadline set forth in the "Notice Inviting Sealed Bids". The withdrawal of a Proposal will not prejudice the right of the Bidder to submit a new Proposal, provided there is time remaining to do so. Proposals may not be withdrawn after the bid opening without forfeiture of the Proposal guarantee.

7. NONRESPONSIVE PROPOSALS

Unauthorized conditions, limitations, or provisions attached to a Proposal will render it nonresponsive and may cause its rejection. The completed Proposal forms shall be without inter-lineation, alterations, or erasures. Alternative Proposals will not be considered unless specifically requested. No oral, telegraphic, or telephonic Proposal, modification, or withdrawal will be considered.

8. TAXES

No mention shall be made in the Proposal of Sales Tax, Use Tax, or any other tax, as all amounts bid will be deemed and held to include any such taxes that may be applicable. Bidder acknowledges and agrees that CITY shall not be responsible for the payment of any increase in Sales Tax, Use Tax, or any other tax that takes effect after award.

9. DISQUALIFICATION OF BIDDERS

In the event that any Bidder acting as a prime contractor has an interest in more than one Proposal, all such Proposals will be rejected, and the Bidder will be disqualified. This restriction does not apply to subcontractors or suppliers who may submit quotations to more than one Bidder.

No contract will be executed unless the Bidder is licensed in accordance with the provisions of the Business and Professions Code.

10. INTERPRETATION OF PLANS AND DOCUMENTS

If any person contemplates submission of a bid for the proposed contract and is in doubt as to the true meaning of any part of the plans, specifications or other proposed contract documents, or finds discrepancies in, or omissions from, the drawings or specifications, he or she may submit to the City Engineer a written request for an interpretation or correction thereof ten (10) working days prior to the scheduled bid opening. The person submitting the request will be responsible for its prompt delivery. Any interpretation or correction of the proposed documents shall be made only by addendum duly issued by the City and copy of such addendum will be published and issued to each person receiving a set of such documents. The City Engineer will not be responsible for any other explanation or interpretations of the proposed documents.

11. ADDENDA OR BULLETINS

The effect of all addenda to the Contract Documents shall be considered in the bid, and said addenda shall be made a part of the Contract Documents. Before submitting a bid, each Bidder shall confirm as to whether or not any addenda have been issued, and failure to cover in this bid any such addenda issued, may render bid non-responsive and may result in its rejection by the CITY.

12. LEGAL RESPONSIBILITIES

All Proposals must be submitted, filed, made, and executed in accordance with State and Federal laws relating to bids for contracts of this nature whether the same are expressly referred to herein or not.

Any Bidder submitting a Proposal shall by such action thereby agree to each and all of the laws, terms, conditions, provisions, and requirements set forth, contemplated, and referred to in the Plans, Specifications, and Contract Documents, and to full compliance therewith.

13. AWARD OF CONTRACT

Following a review of the bids, the CITY shall determine whether to award the contract or to reject all bids. The award of contract, if made, will be to the lowest responsive-responsible Bidder as determined solely by the CITY. At the time of contract award, the successful Bidder shall hold a Class A and/or any combination of Class C Contractors License(s), as required to perform the work, as issued by the State of California and the playground installer must have factory playground installation Certification by PlayPower, Inc. Additionally, the CITY reserves the right to reject any or all Proposals, to accept any bid or portion thereof, to waive any irregularity, and to take the bids under advisement for the period of time stated in the "Notice Inviting Sealed Bids", all as may be required to provide for the best interests of the CITY. In no event will an award be made until all necessary investigations are made as to the responsibility and qualifications of the Bidder to whom the award is contemplated.

Within three (3) days of bid opening, the apparent low Bidder must submit a revised bid bond with numerical dollar values, both in words and with digits of the Bid Bond amount. Within ten (10) working days after the date of the formal Notice of Apparent Low Bidder, the successful

Bidder shall submit the required and fully executed Contract Agreement, Bonds (Faithful Performance and Payment (Material and Labor)) and Insurance. Submission of these documents shall be at the Low Bidder's sole cost and expense and shall not be made reimbursable by City. Award of Contract, if made, shall be solely the determination of the City Council.

No Bidder may withdraw its Proposal for a period of ninety (90) days after the time set for opening thereof. However, the CITY will return all Proposal guarantees within ten (10) days after the award of the contract or rejection of the bids, as the case may be, to the respective Bidders whose Proposals they accompany.

14. PREVAILING WAGE RATES

The wage rates applicable to this Project are the State of California Department of Industrial Relations prevailing rates of per diem wages. In accordance with the provisions of Sections 1773.2 of the California Labor Code, copies of the general prevailing rate of per diem wages as determined by the State Director of Industrial Relations are available at City Hall, which shall be made available to any interested party upon request, or on the Internet at the State Department of Industrial Relations website <https://www.dir.ca.gov/Public-Works/Prevailing-Wage.html>.

It shall be mandatory upon the Contractor to whom the Contract is awarded and upon any subcontractor to pay not less than said specified rates to all workers employed by them in the execution of the Contract. A copy of said rates shall be posted at each job site during the course of construction. The Contractor and all subcontractors shall comply with all provisions of the California Labor Code relating to prevailing wage rates, including Sections 1770–1781.

This Project is subject to compliance monitoring and enforcement by the Department of Industrial Relations. The Department of Industrial Relations shall monitor and enforce compliance with applicable prevailing wage requirements for this Agreement. The reporting requirements may be found at <https://www.dir.ca.gov/Public-Works/Contractors.html>. The Contractor is responsible for complying with all requirements of the Department of Industrial Relations, including filing electronic payroll reports.

A contractor or subcontractor will not be qualified to bid on, be listed in a Proposal, subject to the requirements of Section 4104 of the Public Contract Code, or engage in the performance of any contract for public work on a public works project unless registered with the Department of Industrial Relations pursuant to Labor Code Section 1725.5. It is not a violation of Labor Code Section 1771.1 for an unregistered contractor to submit a bid that is authorized by Section 7029.1 of the Business and Professions Code or by Section 10164 or 20103.5 of the Public Contract Code, provided the contractor is registered to perform public work pursuant to Section 1725.5 at the time the contract is awarded. Contractor and its subcontractors shall maintain active registration with the Department of Industrial Relations for the duration of the Project.

A contractor or subcontractor will not be qualified to bid on, be listed in a Proposal, subject to Section 6109 of the public Contract Code, or engage in the performance of any contract for public work on a public works project if the contractor or subcontractor is ineligible to perform work pursuant to Section 1777.1 or 1777.7 of the Labor Code.

The CITY will not recognize any claim for additional compensation because of the payment by the Contractor of any wage rate in excess of the California minimum wage rate or the Federal minimum wage rate (whichever is greater) as set forth in the contract. The possibility of wage increases is one of the elements to be considered by the Bidder in determining his bid, and will not under any circumstances be considered as the basis of a claim against the CITY on the Contract.

The Contractor and subcontractors shall comply with Section 1777.6 of the Labor Code which stipulates that it shall be unlawful to refuse to accept otherwise qualified employees as registered apprentices on any public works on any basis listed in Government Code Section 12940(a), as those bases are defined in Government Code Sections 12926 and 12926.1, except as provided in Labor Code Section 3077 and Government Code Section 12940.

15. WORKERS' COMPENSATION CERTIFICATE

Section 3700 of the Labor Code requires that every employer shall secure the payment compensation by either being insured against liability to pay compensation with one or more insurers or by securing a certificate of consent to self-insure from the State Director of Industrial Relations.

In accordance with this section and with Section 1861 of the Labor Code, the Contractor shall sign a Compensation Insurance Certificate which is included with the Contract Agreement, and submit same to CITY along with the other required Contract Documents, prior to performing any work. Reimbursement for this requirement shall be considered as included in the various items of work.

16. SUBLETTING AND SUBCONTRACTING.

Pursuant to the Subletting and Subcontracting Fair Practices Act (commencing with Section 4100 of the Public Contract Code), Bidders are required to list in their Proposal the name, business address, California contractor license number, and public works contractor registration number issued pursuant to Section 1725.5 of the Labor Code of each subcontractor who will perform work or labor or render services in or about the construction of the work or improvement or a subcontractor who specially fabricates and installs a portion of the work or improvement according to detailed drawings contained in the Plans and Specifications in excess of 1/2 of 1% of this prime Contractor's total bid or \$10,000, whichever is greater. If a subcontractor's California contractor license number or public works contractor registration number are submitted incorrectly in the bid, it will not be grounds for filing a bid protest or grounds for considering the bid nonresponsive if the corrected subcontractor's California contractor license number is submitted to CITY within 24 hours after the bid opening

If the Bidder fails to list a subcontractor for a portion of work or if the Bidder lists more than one subcontractor of the same portion of work in excess of 1/2 of 1% of the total bid or \$10,000, whichever is greater, the Bidder agrees that it is fully qualified to perform that portion of work itself, and that the Bidder shall perform that portion of work itself. If after award of the contract, the Bidder actually subcontracts that portion of work, except as provided in Public Contract Code Section 4107 or 4109, the Bidder shall be subject to the penalties listed in Section 4111 of the Public Contract Code. It is the CITY's intent for the Subletting and Subcontracting Fair Practices Act to apply to all phases of the work.

17. SUBSTITUTION OF SECURITIES

In conformance with Public Contract Code Section 22300, which is incorporated herein by this reference, the Contractor may substitute securities for any monies withheld by the CITY to ensure performance under the Contract or, in the alternative, may request payment of retention earned directly to an escrow agent.

At the request and expense of the Contractor, the Contractor has the option to deposit securities, which have been approved by the CITY, with a State or Federally chartered bank as the escrow agent or require the City to deposit 5% of each progress payment with the escrow agent. Said securities will be used as a substitute for retention earnings required to be withheld by the CITY, pursuant to the construction contract. Said securities shall have no obligation to any other construction contract for substitution of securities in lieu of retention. When the Contractor deposits the CITY approved securities with the escrow agent, the escrow agent shall notify the CITY within 10 calendar days of the deposit. Said securities shall be evaluated quarterly by the escrow agent to verify the current market value. If the current market value of said securities falls below the required amount, the escrow agent shall notify the Contractor and require additional securities and/or cash to be submitted for CITY approval, and be held in the escrow account to meet the Contractor's obligations. The escrow agent shall hold said securities until such time as the escrow agent receives written notification from the CITY that the Contractor has satisfactorily completed his Contract obligations.

The type of securities deposited and the method of release shall be approved by the City Attorney's office.

If the Contractor chooses not to exercise its rights under Public Contract Code Section 22300, the full five percent (5%) retention will be deducted from all payments. The final retention will be authorized for payment thirty-five (35) days after the date of recordation of the Notice of Completion, if no Stop Notices have been filed. The CITY may withhold from release of the final retention amounts authorized under Public Contracts Code Section 7107 and/or 125% of amounts identified in any Stop Notices received by the CITY.

18. BIDDER'S QUESTIONNAIRE

Contractor shall complete the Bidder's questionnaire in its entirety. Failure to submit the completed questionnaire may be grounds for rejection of the bid.

19. CONTRACTOR'S INDUSTRIAL SAFETY RECORD

All bidders are required to submit information regarding their industrial safety record on the form included in the bid documents. A review of this safety record will be made prior to a determination of the lowest responsible bidder, and an adverse finding as to the bidder's safety record or any bid submitted which does not contain the Contractor's Industrial Safety Record, completed and signed by the appropriate party may be sufficient cause for rejection of the bid.

20. BID DEPOSITORY

In accordance with the terms and provisions of the California Supreme Court in the case of Oakland-Alameda County Builder's Exchange vs. F.P. Lathrop Construction Co., 4 Cal 3rd 354, 93 Cal Rptr 602, find that depository agreements or locked box devices prevented open competitive bidding and that the same was an invalid restraint on competition among

subcontractors, the contractor herein bidding certifies that all subcontract bids heretofore obtained or hereafter obtained by it in connection with this project have been or will be obtained on the open market and not subject to any restrictive agreement limiting said bidder to the taking or receiving of bids from any source other than through a locked box or a person or group restricting the receipt of bids outside of said person or group. The bidder is required to complete Question No. 20 of the Bidder's Questionnaire, attached hereto, which addresses the use of Bid Depositories.

21. IRAN CONTRACTING ACT CERTIFICATION

Pursuant to Public Contract Code (PCC) section 2204, an Iran Contracting Act certification is required for solicitations of goods or services of \$1,000,000 or more.

22. PUBLIC WORKS CONTRACT

In case of any conflict between the "Public Works Plans and Specifications" and the "Public Works Contract", the provisions of the Public Works Contract shall prevail.

BIDDER'S NAME _____

CITY OF LAKEWOOD

**PROPOSAL
FOR
BLOOMFIELD PARK PLAY AREA IMPROVEMENTS
PROJECT NO. 24-04**

TO CITY OF LAKEWOOD, as CITY:

In accordance with CITY's "Notice Inviting Sealed Bids", the undersigned BIDDER hereby proposes to furnish all materials, equipment, tools, labor, and incidentals required for the above stated project as set forth in the Plans, Specifications, and Contract Documents therefore, and to perform all work in the manner and time prescribed therein.

BIDDER declares that this Proposal is based upon careful examination of the work site, Plans, Standard Specifications, Notice Inviting Sealed Bids, Instructions to Bidders, Proposal Documents, General Specifications, Special Provisions, Technical Provisions and Contract Documents. If this Proposal is accepted for award, BIDDER agrees to enter into a contract with CITY at the unit and/or lump sum prices set forth in the following Proposal Bid Sheet(s). BIDDER understands that failure to enter into a contract in the manner and time prescribed will result in forfeiture to CITY of the Bid Security accompanying this Proposal.

BIDDER understands that a bid is required for the entire work, that the estimated quantities set forth in the Proposal Bid Sheet are solely for the purpose of comparing bids, and that final compensation under the contract will be based upon the actual quantities of work satisfactorily completed. It is agreed that the unit and/or lump sum prices bid include all appurtenant expenses, taxes, royalties, and fees. In the case of discrepancies in the amounts bid, unit prices shall govern over extended amounts.

BIDDER agrees and acknowledges that it is aware of the provisions of Section 3700 of the Labor Code, which requires every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that code, and that the BIDDER will comply with such provisions of that code before the commencement of any work under this Contract, if awarded.

BIDDER certifies that in all previous contracts or subcontracts, all reports which may have been due under the requirements of any CITY, State, or Federal equal employment opportunity orders have been satisfactorily filed, and that no such reports are currently outstanding.

BIDDER declares that the only persons or parties interested in this Proposal as principals are those named herein; that no officer, agent, or employee of the CITY is personally interested, directly or indirectly, in this Proposal; that this Proposal is made without connection to any other individual, firm, or corporation making a bid for the same work; and that this Proposal is in all respects fair and without collusion or fraud.

BIDDER certifies that affirmative action has been taken to seek out and consider disadvantaged business enterprises for those portions of the work to be subcontracted, and that such affirmative actions have been carefully documented, that said documentation is open to inspection, and that said affirmative action will remain in effect for the life of any contract awarded hereunder.

Furthermore, BIDDER certifies that affirmative action will be taken to meet all equal employment opportunity requirements of the contract documents.

BIDDER'S NAME: _____

DATE _____, 2025.

BIDDER'S ADDRESS: _____

BY _____
(Print Name)

(Signature)

PHONE: () _____

TITLE _____

EMAIL: _____

BY _____
(Print Name)

(Signature)

TITLE _____

Subscribed and sworn to before me
this _____ day of _____, 2025

(Signature of Notary Public)

(SEAL)

BIDDER'S INFORMATION

BIDDER certifies that the following information is true and correct:

Bidder's Name _____

Business Address _____

Email: _____ Telephone: (____) _____

State Contractor's License No. and Class _____

Original Date Issued _____ Expiration Date _____

The following are the names, titles, addresses, and phone numbers of all individuals, firm members, partners, joint ventures, and/or corporate officers having a principal interest in this Proposal:

The dates of any voluntary or involuntary bankruptcy judgments against any principal having an interest in this Proposal are as follows:

All current and prior DBA's, alias, and/or fictitious business names for any principal having an interest in this Proposal are as follows:

Has any Bonding Company ever refused to bond you, your firm, or any principal in your firm for a contract? ☐ YES ☐ NO

Has a Bonding Company ever been required to pay on a Bond issued to you, your firm, or any principal in your firm for a contract? ☐ YES ☐ NO

Have you, your firm, or any principal in your firm ever had to submit to binding arbitration to resolve a dispute arising from a contract? ☐ YES ☐ NO

Have you, your firm, or any principal in your firm ever been penalized with liquidated damages for failure to complete the terms of a contract within the specified time? ☐ YES ☐ NO

By _____
(Print Name)

Subscribed and sworn to before me
this _____ day of _____, 2025.

By _____
(Signature)

(Signature of Notary Public)

(Title)

(SEAL)

BIDDER'S NAME _____

LIST OF SUBCONTRACTORS (4100 PUBLIC CONTRACT CODE)

BIDDER proposes to subcontract certain portions of the work, and to procure materials and equipment from suppliers and vendors in excess of ½ of 1% of the total bid amount or ten thousand dollars (\$10,000), whichever is greater as follows (add additional pages as necessary) (Bidder must include all requested information):

Subcontractor Name _____
Address _____
License No. and Class _____
DIR Registration No. _____
Phone No. _____ Email: _____
Percent of Total Contract _____
Specific Scope of Work _____

Subcontractor Name _____
Address _____
License No. and Class _____
DIR Registration No. _____
Phone No. _____ Email: _____
Percent of Total Contract _____
Specific Scope of Work _____

Subcontractor Name _____
Address _____
License No. and Class _____
DIR Registration No. _____
Phone No. _____ Email: _____
Percent of Total Contract _____
Specific Scope of Work _____

Subcontractor Name _____
Address _____
License No. and Class _____
DIR Registration No. _____
Phone No. _____ Email: _____
Percent of Total Contract _____
Specific Scope of Work _____

Attach additional sheets as necessary.

BIDDER'S NAME _____

REFERENCES

The following are the names, addresses, and phone numbers for three (3) public agencies for which BIDDER has performed similar work within the past five years:

Agency Name: _____
Address: _____
Contact: _____ Phone: _____
Email: _____
Description of Work _____

Agency Name: _____
Address: _____
Contact: _____ Phone: _____
Email: _____
Description of Work _____

Agency Name: _____
Address: _____
Contact: _____ Phone: _____
Email: _____
Description of Work _____

DESIGNATION OF SURETIES

The following are the names, addresses, and phone numbers for all brokers and sureties from whom BIDDER intends to procure insurance and bonds:

Name _____
Address _____
Phone No. _____

Name _____
Address _____
Phone No. _____

Name _____
Address _____
Phone No. _____

CONTRACTOR'S LICENSING STATEMENT

BIDDER certifies that the following is true and correct. The undersigned is licensed in accordance with the laws of the State of California providing for the registration of Contractors.

Contractor's License Number _____ DIR Registration No. _____

Name of Individuals operating as the Contractor (Print or type):

Signature of Owner(s) _____

Business Address _____

OR

Name of Contractor Company _____

Business Address _____

Officers:

Name _____ Title _____

Name _____ Title _____

Name _____ Title _____

OR

Name of Contractor Corporation _____

Business Address _____

Corporation organized under the laws of the State of _____

Name of President of Corp./ Company

Name of Secretary of Corp./ Company

By: _____
Signature

By: _____
Signature

(Provide a Corporate Resolution designating the individuals authorized to sign agreements.)

Subscribed and sworn to before me
this _____ day of _____, 20____

By: _____
(Signature of Notary Public)

(Print Name)

(SEAL)

**CITY OF LAKEWOOD
BIDDER'S BOND
BLOOMFIELD PARK PLAY AREA IMPROVEMENTS
PROJECT NO. 24-04**

*NOTE: Use this form when Bid Bond is to be submitted with bid
instead of certified check, cashier's check.*

KNOW ALL MEN BY THESE PRESENTS,

That we, _____ as principal,
Residence Address _____ Phone _____
Business Address _____ Phone _____
and _____ a duly authorized corporate surety:
Business Address _____ Phone _____ are held and
firmly bound unto the City of Lakewood, State of California in the sum of
_____ dollars, (\$_____))
for the payment of which sum, well and truly to be made we bind ourselves and each of our
heirs, successions, executors, administrators and assigns, jointly and severally, firmly by these
presents.

The condition of the foregoing obligation is such that said principal is about to hand in and submit
to the City Council of the City of Lakewood the foregoing bid for the performance of the work
therein mentioned, in compliance with the specifications therefor, under an invitation of said City
Council contained in the Notice of Inviting Bids attached to said bid.

NOW, THEREFORE, if said bid of the said principal shall be accepted, and the work awarded to
thereupon by said City Council, and if the said principal, _____,
shall fail or neglect to enter into a contract therefor within the required time, and with a duly
authorized corporate surety, conditions for the faithful performance of such contract and the
payment of all claims for labor and materials used on said work, in such case required by statute,
then in that case the undersigned obligers will pay to the City of Lakewood the full sum of
_____ Dollars (\$_____))
as liquidated damages for such failure and neglect.

WITNESS OUR HANDS THIS _____ day of _____, 2025.

(Principal's Signature)

(Corporate Surety's Signature)

(Attach Acknowledgements)

BIDDERS NAME _____

BLOOMFIELD PARK PLAY AREA IMPROVEMENTS
PROJECT NO. 24-04

NON-COLLUSION AFFIDAVIT TO BE EXECUTED
BY BIDDER AND SUBMITTED WITH BID

STATE OF CALIFORNIA)
) SS
COUNTY OF)

In conformance with Public Contract Code Section 7106, the party making the foregoing bid declares that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that such bid is genuine and not collusive or sham; that said Bidder has not directly or indirectly induced or solicited any other Bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any Bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the Bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the Bidder or any other Bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other Bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true; and further, that the Bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

Any person executing this declaration on behalf of a Bidder that is a corporation, partnership, joint venture, limited liability company, limited liability partnership, or any other entity, hereby represents that he or she has full power to execute, and does execute, this declaration on behalf of the Bidder.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct and that this declaration is executed on _____ [date], at _____ [city], _____ [state].”

Signed: _____

Name: _____

Title: _____

Subscribed and sworn to before me
this _____ day of _____, 2025.

Signature of Notary Public

Print Name

(SEAL)

**CITY OF LAKEWOOD
PROPOSAL BID SHEETS
FOR
BLOOMFIELD PARK PLAY AREA IMPROVEMENTS
PROJECT NO. 24-04**

In accordance with the Notice Inviting Bids for this Work in the City of Lakewood, California, we offer to furnish all necessary labor, tools, materials, appliances and equipment for and perform all Work mentioned in the Notice Inviting Bids, in full compliance with Plans & Specifications at the prices listed below. We certify that we have examined the site and that the Bid is complete. By signing the Bid, we certify that the Contractor will not submit a claim based on failure to examine the site thoroughly.

Item	Description	Est. Quantity	Units	Unit Price \$	Total Cost \$
1.	Mobilization/Demobilization (shall not exceed 5% of the total amount bid)	1	LS		
2.	Implementation of Water Quality Best Management Practices	1	LS		
3.	Demolition including Clearing and Grubbing, removal of play equipment and foundations	1	LS		
4.	Grading including remove and dispose of 15" depth of sand	1	LS		
5.	Construct 11" Aggregate Base	475	CY		
6.	Construct Geotextile Fabric	1	LS		
7.	Install 4" Rubber Cushion Layer	7,650	SF		
8.	Install ½" Rubber Wearing Layer	7,650	SF		
9.	Construct 4" Gravel Drain	4	EA		
10.	Furnish Playground Equipment and Shade Structure	1	LS		
11.	Install Playground Equipment and Shade Structure including Foundations, complete and in place, per Manufacturer's Recommendations	1	LS		

TOTAL BID IN FIGURES: \$ _____

TOTAL BID IN WORDS: _____ DOLLARS

AND _____ CENTS.

CITY OF LAKEWOOD
PROPOSAL BID SHEETS
FOR
BLOOMFIELD PARK PLAY AREA IMPROVEMENTS
PROJECT NO. 24-04

PROPOSAL

IN WITNESS WHEREOF, BIDDER executes and submits this Proposal with the names, titles, hands, and seals of all forenamed principals this _____ day of _____, 2025.

BIDDER _____

Subscribed and sworn to before me this _____ day of _____, 2025.

SIGNATURE NOTARY PUBLIC _____ (Attach Acknowledgement)

By _____
(PRINT)

(SIGNATURE)

(SEAL)

Title _____

CITY acknowledges that this Proposal was received and opened at the time and in the place specified, and that it was accompanied by the required guarantee in the minimum amount of ten percent (10%) of the total bid.

By _____

Title _____

NOTE TO BIDDER: THE ESTIMATED QUANTITIES SHOWN HEREIN ARE APPROXIMATE AND ARE TO BE USED ONLY AS COMPARISON OF BIDS. PAYMENT FOR QUANTITIES WILL BE MADE FOR ACTUAL MATERIALS USED ON THE PROJECT. THE CITY RESERVES THE RIGHT TO INCREASE OR DECREASE THE AMOUNT OF ANY QUANTITY SHOWN AND TO DELETE ALL OR ANY ITEM FROM THE CONTRACT. IF THERE IS A CONFLICT BETWEEN THE UNIT PRICE PROVIDED AND TOTAL COST, THE UNIT PRICE SHALL PREVAIL. IF THERE IS A CONFLICT BETWEEN THE "TOTAL BID FIGURES" AND THE "TOTAL BID IN WORDS", THE "TOTAL BID IN WORDS" SHALL PREVAIL. BID COMPARISON SHALL SOLELY BE ON THE BASIS OF THE BASE BID.

BIDDERS NAME _____

**BIDDER'S CERTIFICATION FOR
ACKNOWLEDGEMENT OF COMPLIANCE WITH INSURANCE
REQUIREMENTS FOR PUBLIC WORKS CONSTRUCTION
CITY OF LAKEWOOD
BLOOMFIELD PARK PLAY AREA IMPROVEMENTS
PROJECT NO. 24-04**

BIDDER agrees, acknowledges and is fully aware of the insurance requirements as specified in the SPECIAL PROVISIONS for BLOOMFIELD PARK PLAY AREA IMPROVEMENTS, PROJECT NO. 24-04 and accepts all conditions and requirements contained therein. Provide the following information and execute this form, submit with Bid.

Name of Agent:	Name of Agent:
Name of Firm:	Name of Firm:
Address:	Address:
Telephone: Email:	Telephone: Email:
Type of Insurance:	Type of Insurance:
Insurance Company:	Insurance Company:
AM Best's Rating:	AM Best's Rating:

Bidder's Name

By(Signature and Title)

Date

SUBMIT THIS EXECUTED FORM WITH THE BID

CITY OF LAKEWOOD

**CONTRACTOR'S INDUSTRIAL SAFETY RECORD (Submit with Bid)
BLOOMFIELD PARK PLAY AREA IMPROVEMENTS
PROJECT NO. 24-04**

This information must include all construction work undertaken in the State of California by the bidder and any partnership, joint venture or corporation that any principal of the bidder participated in as a principal or owner for this last five calendar years and the current calendar year prior to the date of bid submittal. Separate information shall be submitted for each particular partnership, joint venture, corporate or individual bidder. The bidder may attach any additional information or explanation of data which he would like taken into consideration in evaluating the safety record. An explanation must be attached of the circumstances surrounding any and all fatalities. **This form may be duplicated.**

	2020	2021	2022	2023	2024
1. Number of contracts					
2. Total dollar amount of contracts(in \$1,000's)					
*3. Number of fatalities					
*4. Number of lost workday cases					
*5. Number of lost workday cases involving permanent transfer to another job or termination of employment					
*6. Number of lost workdays					

*The information required for these items is the same as required for columns 3 to 6, code 10, Occupational Injuries, Summary--Occupational Injuries and Illnesses, OSHA No. 102.

The above information was compiled from the records that area available to us at this time and I declare under penalty of perjury that the information is true and accurate within the limitations of those records.

Name of Business Entity: _____

Relationship to Bidder: _____

Address: _____

Telephone _____ Email _____

State Contractor's License Number _____ Additional Information Attached? _____

Date _____ Signature _____

CITY OF LAKEWOOD

**BLOOMFIELD PARK PLAY AREA IMPROVEMENTS
PROJECT NO. 24-04**

IRAN CONTRACTING ACT CERTIFICATION

Pursuant to Public Contract Code (PCC) section 2204, an Iran Contracting Act certification is required for solicitations of goods or services of \$1,000,000 or more.

To submit a bid or proposal to the Court, you must complete **ONLY ONE** of the following two paragraphs. To complete paragraph 1, check the corresponding box **and** complete the certification for paragraph 1. To complete paragraph 2, simply check the corresponding box.

- ☐ 1. We are not on the current list of persons engaged in investment activities in Iran created by the California Department of General Services ("DGS") pursuant to PCC 2203(b), and we are not a financial institution extending twenty million dollars (\$20,000,000) or more in credit to another person, for 45 days or more, if that other person will use the credit to provide goods or services in the energy sector in Iran and is identified on the current list of persons engaged in investment activities in Iran created by DGS.

OR

- ☐ 2. We have received written permission from the Court to submit a bid or proposal pursuant to 2203(c) or (d). *A copy of the written permission from the Court is included with our bid or proposal.*

CERTIFICATION FOR PARAGRAPH 1:

I, the official named below, CERTIFY UNDER PENALTY OF PERJURY, that I am duly authorized to legally bind the proposer/bidder to the clause in paragraph 1. This certification is made under the laws of the State of California.

<i>Company Name (Printed)</i>		<i>Federal ID Number</i>
<i>By (Authorized Signature)</i>		
<i>Printed Name and Title of Person Signing</i>		
<i>Date Executed</i>	<i>Executed in the County of _____ in the State of _____</i>	

CITY OF LAKEWOOD

PRECONSTRUCTION DOCUMENT SUBMITTAL REQUIREMENTS BLOOMFIELD PARK PLAY AREA IMPROVEMENTS PROJECT NO. 24-04

The following documents are required to be completed and submitted as indicated.

A. Submit with Bid (all bidders)

1. Bid sheets including:
 - a. List of Subcontractors
 - b. List of proposed "or equal" substitutions
2. Bidder's Bond or Security
3. Affidavit of Non-Collusion
4. Bidder's Questionnaire (with list of references)
5. Contractor's Industrial Safety Record
6. Iran Contracting Act Certification for bids of \$1,000,000 or more.

B. Submit with Agreement (Awardee):

1. Contract Agreement
2. Faithful Performance Bond - executed by an admitted surety insurer
3. Payment (Material and Labor) Bond - executed by an admitted surety insurer
4. Certificate of Insurance for Public Liability and Property Damage. **Note the minimum limits of \$5,000,000**
5. Certificate of Insurance for Worker's Compensation
6. Manufacturer's specifications and data sheets for "or equal" items proposed to be furnished

C. Submit Prior to Starting Construction (Awardee):

1. Shop drawings, shoring plans, falsework plans, TCP, etc. (as required)
2. Schedule
3. Permits
4. Storm Water Pollution Protection Plan

CITY OF LAKEWOOD
SAMPLE
PUBLIC WORKS CONTRACT

BLOOMFIELD PARK PLAY AREA IMPROVEMENTS
PROJECT NO. 24-04

WHEREAS, the City of Lakewood has heretofore invited bids for a public works contract for:

BLOOMFIELD PARK PLAY AREA IMPROVEMENTS, PROJECT NO. 24-04

within the City of Lakewood in accordance with the terms and provisions of this agreement; and

WHEREAS, the City Council of the City of Lakewood at a meeting thereof on the _____ day of _____, 2025, found that the lowest responsible bidder was and accepted the bid of said bidder, sometimes hereinafter referred to as "Contractor", to construct said public works project in accordance with this agreement; and

WHEREAS, the Notice Inviting said Bids requires the successful bidder to execute an agreement with the City for construction of said public works;

NOW, THEREFORE, the City of Lakewood and said Contractor do hereby covenant and agree as follows:

1. Parties

a. City of Lakewood, a municipal corporation, 5050 Clark Avenue, Lakewood, California, and all officers and employees thereof, as well as any contractual agent of the City and the employees of said contractual agency performing any function of said public works project by and on behalf of the City of Lakewood.

b. "Contractor" shall mean

Name:

Address:

Telephone: _____ Email: _____
and all agents and employees and subcontractors, and the agents and employees of the subcontractors of said Contractor.

2. Scope of Work

a. Contractor agrees at his own cost and expense to do all the work and furnish all the materials, except such as are mentioned in the specifications to be furnished by said City, necessary to construct and complete in a good workmanlike, and substantial manner, the following described public works project in accordance with the project plans and specifications and the provisions of this agreement

which are hereby specially referred to and by reference made a part hereof. The scope of said work and said public works project is:

In general, the work is comprised of public works construction for the replacement of the play area improvements to the existing Bloomfield Park in Lakewood, California. The work generally consists of demolition, grading, concrete foundations, play equipment installation, shade structure installation, rubberized surfacing, drainage improvements and miscellaneous related improvements required by the contract documents. Contractor to fence site during construction, remove existing play equipment, footings and sand. Contractor to furnish, assemble, and install play equipment, shade structure and resilient surfacing all as shown on the Plans, described in the Specifications, and as required to complete the work per the contract documents.

b. The City hereby promises and agrees with said Contractor to employ, and does hereby employ, said Contractor to provide the materials and do the work according to the terms and conditions herein contained and referred to, for the prices hereinafter set forth, and hereby contracts to pay the same at the time, in the manner and upon the conditions hereinafter set forth.

3. Contract Price

The said Contractor agrees to receive and accept the following prices as full compensation for furnishing all materials and for doing all the work contemplated and embraced in this agreement; also for all loss or damage arising out of the nature of the aforesaid work, or from the action of the elements, or from any unforeseen difficulties or obstructions which may arise or be encountered in the prosecution of the work (acts of God as hereinafter defined excepted) until its acceptance by said City, and for all expenses incurred, or as a consequence of the suspension or discontinuance of the work; and for well and faithfully completing the work, and the whole thereof in the manner according to the plans and specifications thereof and this agreement, the sum of _____ Dollars (\$_____). Said price is determined by the unit prices contained in the Contractor's bid. In the event that more or less work is performed than is set forth in Contractor's bids and the specifications herein, such work and materials will be paid for (where authorized by the City) at the unit prices therein contained or a negotiated lump sum or at time and materials. Said amount shall be paid in installments as hereinafter provided.

4. Payments to Contractor

Each month during the progress of the work, the Contractor shall submit to the City a complete itemized statement of all work completed during the preceding month, and the portion of the contract sum applicable thereto. The Engineer will, after award of contract, establish closure dates for the purpose of making monthly progress payments. Said statement will be submitted to the next succeeding City Council meeting corresponding to the closure cut-off date for audit and approval by the City Council, and the City shall pay Contractor said sum less five percent (5%), which five percent (5%) the City will retain as part security for the fulfillment of the contract by the Contractor, said sum not exceeding ninety-five percent (95%) of the contract price during the term of said contract.

The remaining five percent (5%) thereof shall be paid Contractor thirty-five (35) days after recording of the Notice of Completion. If the Notice of Completion or the Notice of Cessation of work has not been recorded, no such final payment shall be made until ninety (90) days after

completion or cessation. At the request and expense of the Contractor, where the provision of Section 22300 of the Public Contracts Code is applicable, the amount so withheld will be paid to the Contractor, provided securities equivalent to the amount withheld are deposited with the City in accordance with and subject to the terms and provisions of Section 22300 of the Public Contract Code.

Nothing herein shall require the City to make payment to the Contractor contrary to the terms and provisions of the Works of Improvement Law, Sections 3082-3266 of the Civic Code pertaining to stop notices and enforcement.

5. Time for Performance

The construction or installation or work called for herein shall commence within fifteen (15) calendar days after issuance of a Notice to Proceed, and shall be thereafter diligently prosecuted to completion. Time is the essence of this agreement.

All work shall be completed within **90 working days**, which includes the 15 day mobilization period.

6. Worker's Compensation Insurance

By my signature hereunder as Contractor, I certify that I am aware of the provisions of Section 3700 of the Labor Code which requires every employer to be insured against liability for Worker's Compensation, or to undertake self-insurance in accordance with the provisions of that Code, and have attached a Certificate of Insurance of Workman's Compensation.

7. Federally Assisted Projects

This project does not include any Federal Government funding.

8. Prevailing Rate or Wages

The Director of Public Works at the direction of the City Council has obtained from the Department of Industrial Relations, State of California, the prevailing rate of per diem wage, and the general prevailing rate for holiday and overtime work in the locality in which this work is to be performed for each craft, classification or type or workmen needed to carry out this agreement. In that regard, pursuant to Section 1773 of the Labor Code, holidays, upon which such rate shall be paid, need not be specified in this agreement, but shall be all holidays recognized in the collective bargaining agreement applicable to the particular craft, classification or type or workmen employed on the project. Attached hereto and made a part hereof as though set forth in full are rates applicable to this project and contract, and the contractor shall pay not less than the minimum thereof.

9. Assignment

The Contractor shall not assign this contract, or transfer his obligation to perform this agreement, without the written approval of the City.

10. Sub-Let

The Contractor shall not sub-let or sub-contract any portion of the work in excess of one-half of one percent (0.5%) of the Contractor's total bid or ten thousand (\$10,000) dollars, whichever is greater, for which he did not designate a subcontractor, other than in the performance of change orders.

11. The Contract

The "Contract", or "Agreement", or "Public Works Contract" used herein shall consist of:

- (1) This Agreement;
- (2) The Notice Inviting Bids;
- (3) The Instructions to Bidders and the Bid Form including all affidavits and questionnaires pertaining thereto and included within the "Bidder's Package";
- (4) The prevailing per diem wage scale rates and benefits established by the Department of Industrial Relations of the State of California;
- (5) The Bidder's Security, the Contractor's Payment Bond, and the Faithful Performance Bond;
- (6) The contract Plans and Specifications, and revisions and addenda issued thereto;

Execution of this Agreement by the Contractor incorporates all of the aforementioned by reference, which are attached hereto and made a part hereof as though set forth in full.

12. Bonds and Insurance

The Contractor shall return with this executed Contract those bonds and evidence of insurance in the amounts as set forth in the Contract General Conditions. Said bonds and evidence of insurance shall be in a form approved by the City Attorney.

It is further agreed by and between the parties hereto, including the surety or sureties on the bonds made a part of this agreement, that in the event it is deemed necessary to extend the time of completion of the work to be done under this Agreement, said extension may be granted by the City Council, and shall in no way affect the validity of this Contract, or release of surety or sureties of the bonds.

Where cash is provided by the Contractor to the City to secure performance of this Agreement, and where not prohibited by federal law or regulation, securities in compliance with the provisions of Public Contract Code Section 22300, equivalent in the amount withheld, may be deposited with the City or with a state or federally chartered bank as the escrow agent, who shall then pay such money withheld from the contractor. Upon satisfactory completion of the contract, the securities shall be returned to the contractor and otherwise retained and administered within the terms and provisions of the Agreement and Section 22300.

13. Contracts for Thirty Thousand (\$30,000) dollars or more, or Twenty Working (20) Days or More:

It is understood and agreed by and between the parties that in accordance with the terms and provisions of Section 3098 of the Labor Code of the State of California, the City will, with respect to prime contracts of thirty thousand (\$30,000) dollars or twenty (20) working days or more, within five (5) days of the award of this contract send a copy of the award to the Division of Apprentice Standards of the State of California. Contractor agrees by the execution of this

agreement to comply with the terms and provisions of Section 1777.5 of the Labor Code pertaining to the employment of properly indentured apprentices and the wages to be paid.

IN WITNESS WHEREOF the City and the Contractor have caused this Agreement to be executed and signed on this _____ day of _____, 2025.

CITY OF LAKEWOOD

By _____
Mayor

CONTRACTOR

Name of Contractor

By _____
Signature & Title

CITY OF LAKEWOOD
FAITHFUL PERFORMANCE BOND
BLOOMFIELD PARK PLAY AREA IMPROVEMENTS
PROJECT NO. 24-04

KNOW ALL MEN BY THESE PRESENTS:

That we, _____
as principal, and _____
as surety, are held and firmly bound unto the CITY OF LAKEWOOD, State of California, in the
sum of _____
Dollars (\$ _____), lawful money of the United States, for the payment of which
sum, well and truly to be made, we bind ourselves, jointly and severally, firmly by these
presents.

The condition of the foregoing obligation is such that whereas said principal has been awarded
and is about to enter into the annexed contract with the City of Lakewood, State of California,
for:

BLOOMFIELD PARK PLAY AREA IMPROVEMENTS
PROJECT NO. 24-04

and as required by said City to give this bond in connection with the execution of said contract;

NOW, THEREFORE, if the said principal shall well and truly do and perform all of the covenants
and obligations of said contract on (circle one) his/her/their part to be done, performed at the
times, in the manner specified therein, and within the time limit prescribed as well as in a manner
that is satisfactory and acceptable to the City and if all materials and workmanship supplied by
said principal are free from original or developed defects and failures and make all replacements
and adjustments required, within a reasonable time after being notified by the City so to do, then
this obligation shall be null and void, otherwise it shall be and remain in full force and effect.

This bond shall be maintained by the contractor in full force and effect during the performance of
the work of the contractor and for a period of one year after the date of acceptance of the work
by the City.

No premature payment by said City to said principal shall exonerate any surety unless the City
Council of said City shall have actual notice that such payment is premature at the time it is
ordered by said City Council, and then only to the extent that such payment shall result in loss to
said surety, but in no event more than the amount of such premature payment.

The said surety for value received hereby stipulates and agrees that no amendment, change,
extension of time, alteration or addition to said contract or agreement, or of any feature or item,
or items of performance required therein or thereunder, shall in any manner affect its obligation
on or under this bond; and said surety does hereby waive notice of said amendment, change,
extension of time, alteration or addition to said contract or agreement and of any feature of item
or items of performance required therein or hereunder.

(Where principal is individual or partnership) the said surety for value received hereby stipulates and agrees that the death of the principal or principals shall not relieve the surety of its obligation.

WITNESS our hands this _____ day of _____, 20 ____.

Principal's Signature: _____

Surety: _____

Address: _____

Telephone: _____

STATE OF CALIFORNIA)
) ss.
COUNTY OF LOS ANGELES)

On this _____ day of _____, 2025, before me _____, (here insert name and title of the officer), personally appeared _____, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

Witness my hand and Official Seal:

Notary Public in and for said County and State

CITY OF LAKEWOOD

PAYMENT BOND

**BLOOMFIELD PARK PLAY AREA IMPROVEMENTS
PROJECT NO. 24-04**

KNOW ALL MEN BY THESE PRESENTS:

That we, as Principal and Surety(ies) hereto, are firmly bound to the CITY OF LAKEWOOD, CALIFORNIA, and to all persons, companies or corporations who are claimant under Title 15 of the Civil Code of the State of California, commencing with Section 3082, under and by virtue of the above mentioned Public Works contract of the City of Lakewood in the sum of _____ Dollars

(\$ _____), lawful money of the United States and we bind ourselves jointly and severally for the payment of said sum as follows:

THE CONDITION OF THIS OBLIGATION IS SUCH, that whereas the Principal entered into the contract identified above;

NOW, THEREFORE, if the Principal shall promptly make payment to all persons supplying labor and materials in the prosecution of the work provided for in said contract, and any and all duly authorized modification of said contract that may hereafter be made, notice of which modification to the Surety(ies) is being hereby waived, then the above obligation shall be void and of no effect. Otherwise, if the original contractor or his subcontractor fails to pay any of the persons named in Section 3181 of the Civil Code of the State of California, or amounts due under the Unemployment Insurance Code with respect to work or labor performed by any said claimant, or for any amount required to be deducted, withheld, and paid over to the Franchise Tax Board from the wages of the employees of the contractor and his subcontractor pursuant to Section 188806 of the Revenue and Taxation Code, with respect to such work and labor, that the Surety or Sureties will pay for the same in an amount not exceeding the sum specified in the Bond.

PROVIDED that this Bond is filed by the Principal to comply with the provisions of Title 15 (Work of Improvement) of the Civil Code of the State of California commencing with Section 3082 and is for the benefit of any of the persons named in Section 3181 so as to give a right of action to such persons or their assigns in any suit brought upon the Bond.

COMPENSATION INSURANCE CERTIFICATE

Pursuant to Section 1861 of the State Labor Code, each contractor to whom a public works contract has been awarded shall sign the following certificate and shall submit same to the City prior to performing any work on the contract:

"I am aware of the provisions of Section 3700 of the Labor Code which requires every employer to be insured against liability for Workers' Compensation or to undertake self-insurance in accordance with the provisions of that Code, and I will comply with such provisions before commencing the performance of work of this contract."

Contractor

By _____
(PRINT)

(SIGNATURE)

Title

Date

Section 3700 of the Labor Code reads as follows:

"Every employer except the State shall secure the payment of compensation in one or more of the following ways:

"(a) By being insured against liability to pay compensation in one or more insurers duly authorized to write compensation insurance in this state.

(b) By securing from the Director of Industrial Relations a certificate of consent to self-insure, which may be given upon furnishing proof satisfactory to the Director of Industrial Relations of ability to self-insure and to pay any compensation that may become due to his employee."

COMPENSATION INSURANCE CERTIFICATE

TO BE SUBMITTED WITH CONTRACT

[Not a required document - optional]

**CITY OF LAKEWOOD
ESCROW AGREEMENT FOR SECURITY DEPOSITS IN LIEU OF CASH
BLOOMFIELD PARK PLAY AREA IMPROVEMENTS
PROJECT NO. 24-04**

This escrow Agreement is made and entered into by and between the City of Lakewood, a Municipal Corporation, whose address is 5050 Clark Avenue, Lakewood, California, sometimes hereinafter called "Owner", and _____ hereinafter called "Contractor", whose address is _____ and _____ hereinafter called "Escrow Agent", whose address is _____.

For the consideration hereinafter set forth, the Owner, Contractor and Escrow Agent agree as follows:

(1) Pursuant to Section 22300 of the Public Contract Code of the State of California, Contractor has the option to deposit securities with Escrow Agent as a substitute for retention earnings required to be withheld by Owner pursuant to the Construction Contract entered into between the Owner and Contractor for BLOOMFIELD PARK PLAY AREA IMPROVEMENTS, PROJECT NO. 24-04, in the amount of \$ _____ dated (hereinafter referred to as the "Contract"). When Contractor deposits the securities as a substitute for Contract earnings, the Escrow Agent shall notify the Owner within ten (10) days of the deposit. The market value of the securities at the time of the substitution shall be at least equal to the cash amount then required to be withheld as retention under the terms of the Contract between the Owner and Contractor. Securities shall be held in the name of _____, and shall designate the Contractor as the beneficial owner.

(2) The Owner shall make progress payments to the Contractor for such funds which otherwise would be withheld from progress payments pursuant to the Contract provisions, provided that the Escrow Agent holds securities in the form and amount specified above.

(3) Alternatively, on written request of the Contractor, Owner shall make payments of the retention earnings directly to the Escrow Agent. When the Owner makes payment of retentions earned directly to the Escrow Agent, the escrow Agent shall hold them for the benefit of the Contractor until the time that the escrow created under this contract is terminated. The Contractor may direct the investment of the payments into securities. All terms and conditions of this agreement and the rights and responsibilities of the parties shall be equally applicable and binding when the Owner pays the Escrow Agent directly.

(4) Contractor shall be responsible for paying all fees for the expenses incurred by Escrow Agent in administering the Escrow Account and all expenses of the Owner. These expenses and payment terms shall be determined by the Owner, Contractor, and Escrow Agent.

(5) The interest earned on the securities or the money market accounts held in escrow and all interest earned on that interest shall be for the sole account of Contractor and shall be subject to withdrawal by contractor at any time and from time to time without notice to the Owner.

(6) Contractor shall have the right to withdraw all or any part of the principal in the Escrow Account only by written notice to Escrow Agent accompanied by written authorization from Owner to the Escrow Agent that Owner consents to the withdrawal of the amount sought to be withdrawn by Contractor.

(7) The Owner shall have the right to draw upon the securities in the event of default by the Contractor. Upon seven (7) days written notice to the Escrow Agent from the owner of the default, the escrow agent shall immediately convert the securities to cash and shall distribute the cash as instructed by the Owner.

(8) Upon receipt of written notification from the Owner, certifying that the Contract is final and complete, and that the Contractor has complied with all requirements and procedures applicable to the Contract, Escrow Agent shall release to Contractor all securities and interest on deposit less escrow fees and charges of the Escrow Account. The escrow shall be closed immediately upon disbursement of all moneys and securities on deposit and payments of fees and charges.

(9) Escrow Agent shall rely on the written notifications from the Owner and the Contractor pursuant to Sections (5) to (8), inclusive, of this agreement and the Owner and Contractor shall hold Escrow Agent harmless from Escrow Agent's release and disbursement of the securities and interest as set forth above.

(10) The names of the persons who are authorized:

On behalf of the City:

On behalf of the Contractor:

Title _____

Title _____

Name _____

Name _____

Signature _____

Signature _____

Address _____

Address _____

Telephone _____

Telephone _____

On behalf of the Escrow Agent:

Title _____

Name _____

Signature _____

Address _____

Telephone _____

At the time the Escrow Account is opened, the Owner and Contractor shall deliver to the Escrow Agent a fully executed counterpart of this Agreement.

IN WITNESS WHEREOF, the parties have executed this Agreement by their proper officers on the date set forth below:

CITY OF LAKEWOOD:
A Municipal Corporation

CONTRACTOR:

ESCROW AGENT:

MAYOR

NAME

NAME

SIGNATURE

TITLE

TITLE

ATTEST:

CITY CLERK

SIGNATURE

SIGNATURE

CITY OF LAKEWOOD
GENERAL PROVISIONS
FOR
BLOOMFIELD PARK PLAY AREA IMPROVEMENTS
PROJECT NO. 24-04

SPECIFICATIONS

This Project shall be governed by the Contract Documents consisting of the City of Lakewood Public Works Contract (Agreement), Bid Proposal, Plans, Specifications, General Provisions, Special Provisions and other documents described herein. The Specifications for this Project are based upon the 2024 Edition of the Standard Specifications for Public Works Construction, also known as the "Greenbook", as amended by the Contract Documents. If there is a conflict between the Agreement and these Specifications, the Agreement shall prevail as solely determined by City.

The Greenbook, including all supplements, is written and promulgated by the Joint Cooperative Committee of the Southern California Chapter of the American Public Works Association and the Southern California District of the Associated General Contractors of California, which is incorporated herein by this reference. Copies of these Standard Specifications are available from the publisher:

BNi Building News
Division of BNi Publications, Inc.
<https://www.bnibooks.com>
(888) 264-2665

The Standard Specifications set forth above will control the general provisions for this Contract except as amended by the Plans, General Specifications, Special Provisions, Public Works Contract (Agreement) or other Contract Documents.

The section numbers of the following Special Provisions coincide with those of the said Standard Specifications. Only those sections requiring amendment, elaboration, addition, or that are specifying options are stated in the Special Provisions. In case of conflict between the Standard Specifications and the General Specifications or Special Provisions, the General Specifications and Special Provisions shall take precedence over and be used in lieu of such conflicting portions of the Standard Specifications.

References in the Special Provisions to "CALTRANS Standard Specifications" shall mean the latest edition of the Standard Specifications of the State of California, Department of Transportation. Copies of these specifications and standard drawings may be obtained from:

California Department of Transportation
Publications Distribution Unit
<https://dot.ca.gov/programs/procurement-and-contracts/publications>

References in the Special Provisions to Standard Plans shall mean the Standard Plans for Public Works Construction, latest edition (written and promulgated by the Public Works Standards, Inc.), and, where applicable and as determined and selected by the City Engineer, those specific

standard plans of the City of LAKEWOOD, the County of Los Angeles and/or the State Department of Transportation, latest editions.

Where the Plans or Specifications describe portions of the work in general terms, but not in complete detail, it is understood that the item is to be furnished and installed complete and in place, that only the best general practice is to prevail and that only materials and workmanship of the first quality are to be used. Unless otherwise specified, the Contractor shall furnish all labor, materials, tools, equipment and incidentals, and do all the work involved in executing the contract.

SCOPE OF WORK

In general, the work is comprised of public works construction for the replacement of the play area improvements to the existing Bloomfield Park in Lakewood, California. The work generally consists of demolition, grading, concrete foundations, play equipment installation, shade structure installation, rubberized surfacing, drainage improvements and miscellaneous related improvements required by the contract documents. Contractor to fence site during construction, remove existing play equipment, footings and sand. Contractor to furnish, assemble, and install play equipment, shade structure and resilient surfacing all as shown on the Plans, described in the Specifications, and as required to complete the work per the contract documents.

LOCATION OF WORK

The Project is located at the Bloomfield Park Play Area, 21420 Pioneer Boulevard, Lakewood, CA, as shown on the plans.

TIME OF COMPLETION

The Contractor shall complete all work in every detail within 90 Working Days after the date of the Notice to Proceed.

RESOLUTION OF CONSTRUCTION CLAIMS

California Public Contract Code (PCC) Section 9204 prescribes a process to present, confer, and mediate all construction claims relating to the City's public works project.

"Public works project" means the erection, construction, alteration, repair, or improvement of any public structure, building, road, or another public improvement of any kind.

"Claim" means a separate demand by the Contractor sent by registered mail or certified mail with return receipt requested for (A) a time extension, including, without limitation for relief from damages or penalties for delay assessed by a public entity under a contract for a public works project (B) payment of money or damages arising from work done by or on behalf of the Contractor pursuant to the contract for a public works project and payment for which is not otherwise expressly provided or to which the claimant is not otherwise entitled, or the amount the payment of which is disputed by the local agency. (PCC 9204(c)(1))

For any claim subject to this article, PCC section 9204 requires the following:

- a) The claim shall be submitted by the Contractor in writing, sent by registered mail or certified mail with return receipt requested and must include the documents necessary to substantiate the claim. Nothing in this subdivision is intended to extend the time limit or supersede notice

requirements otherwise provided by contract for the filing of claims. However, upon receipt of a claim, the City, and the Contractor may, by mutual agreement, extend the time period provided by statute.

- b) For claims of all amounts, the City shall respond within 45 days of receipt of the claim, and provide the claimant a written statement identifying which portion of the claim is disputed and which portion of the claim is undisputed. If the City requires approval from the City Council, and the City Council does not meet within the 45-day period to respond, the City shall have up to three days to issue its response following the City Council meeting.
- c) For all portions of a claim determined to be undisputed, the City must process payment to the claimant within 60 days of issuing the City's written determination.
- d) If the claimant disputes the City's response, or if the City fails to respond within the time limits provided, the claimant may demand an informal conference to meet and confer for settlement of the issues in dispute. The demand must be sent in writing by registered or certified mail, return receipt requested. Upon receipt of a demand, the City must schedule a meet and confer conference within 30 days for settlement of the disputed claim.
- e) Within 10 business days following the conclusion of the meet and confer conference, if any portion of the claim remains in dispute, the City shall provide the claimant an addition written statement identifying the portion of the claim that is undisputed and the portion that remains in dispute.
- f) For all portions of a claim determined to be undisputed, the City must process payment to the claimant within 60 days of issuing the City's written determination.
- g) Any remaining undisputed portion of the claim, as identified by the Contractor in writing, shall be submitted to nonbinding mediation in which the parties share the cost evenly. The City and the claimant shall mutually agree on a mediator within 10 business days after the disputed portion of the claim has been identified in writing. If the parties cannot agree, each party shall select a mediator and those mediators shall jointly select a qualified, neutral third party to mediate the remaining undisputed claim. Each party shall bear the respective costs charged by its respective mediator in connection with the selection of the neutral mediator. If mediation is unsuccessful, the parts of the claim remaining in dispute shall be subject to applicable procedures outside of PCC section 9204.

Unless otherwise agreed to by the City and the Contractor in writing, the mediation conducted pursuant to this section shall excuse any further obligation under PCC Section 20104.4 to mediate after litigation has been commenced.

PCC Section 9204 does not preclude the City from requiring arbitration of disputes under private arbitration or the Public Works Contract Arbitration Program if mediation under this section does not resolve the parties' dispute.

Should the City fail to respond to a claim, or fail to issue written statements as required, the Contractor's claim is deemed denied. A claim denied by reason of the City's failure to respond shall not constitute an adverse finding with regard to the merits of the claim or the responsibility or qualifications of the claimant.

Amounts not paid in a timely manner as required by PCC 9204 shall bear interest at seven percent per annum.

NOTICE OF THIRD-PARTY CLAIMS

In accordance with PCC Section 9201, the City will provide timely notification to Contractor of the receipt of any third-party claim relating to the Agreement. The Contractor agrees to reimburse the City for its reasonable costs incurred in providing such notice.

CITY OF LAKEWOOD
SPECIAL PROVISIONS
FOR
BLOOMFIELD PARK PLAY AREA IMPROVEMENTS
PROJECT NO. 24-04

PART 1 - GENERAL PROVISIONS

SECTION 1 - TERMS, DEFINITIONS, ABBREVIATIONS AND SYMBOLS.

1-2 DEFINITIONS. (Add the following)

City	- City of LAKEWOOD
Board	- City Council
Caltrans	- California Department of Transportation
Contract Agreement	- Public Works Contract
County	- County of Los Angeles
Engineer	- City Engineer
Federal	- United States of America
State	- State of California
Contractor	- Contractor, its workers, employees and agents
Project	- Bloomfield Park Play Area Improvements

1-3 ABBREVIATIONS.

1-3.2 Common Usage. [Add the following to this section]:

MUTCD	- Manual of Uniform Traffic Control Devices, including the California Supplement
LADPW	- Los Angeles Public Works Department
SPPWC	- Standard Plans for Public Works Construction
SSPWC	- Standard Specifications for Public Works Construction
FHWA	- Federal Highway Administration
HUD	- Housing and Urban Development

1-7 AWARD AND EXECUTION OF CONTRACT.

1-7.1 General [Add the following]:

Within three (3) days of bid opening, the apparent low bid contractor must submit:

- If a bid bond is submitted with a 10% of Bid designation for the amount as noted in the City Approved Bid Bond form, a revised Bid Bond with numerical dollar values, both in words and with digits, shall be submitted to the City within three (3) days of bid opening.

Within ten (10) days after the date of the formal Notice of Apparent Low Bidder, the Contractor shall execute and return the following documents to the City:

- All Insurance Requirements set forth herein
- Two (2) Original Signed Public Works Contract

- Faithful Performance Bond
- Payment (Material and Labor) Bond
- Construction Schedule
- Traffic Control Plan
- Water Pollution Control Plan
- Form W-9
- Encroachment Permit Application
- Construction Materials Submittals

FAILURE TO COMPLY WITH ALL OF THE ABOVE WILL RESULT IN ANNULMENT OF THE AWARD AND FORFEITURE OF THE PROPOSAL GUARANTEE AT THE SOLE DISCRETION OF City.

The Contract Agreement shall not be considered binding upon the City until executed by the authorized City officials. A corporation to which an award is made may be required, before the Contract Agreement is executed by the City, to furnish evidence of its corporate existence, of its right to enter into contracts in the State of California, and that the officers signing the Contract and bonds for the corporation have the authority to do so.

1-7.2 Contract Bonds. [Replace section with the following]:

Both the Faithful Performance Bond and the Payment (Material and Labor) Bond shall each be for not less than one hundred percent (100%) of the total Contract amount. The Material and Labor Bond shall remain in force until thirty-five (35) days after the date of recordation of the Notice of Completion. The Faithful Performance Bond will be held until its expiration by operation of law from the date of recordation of the Notice of Completion. All bond forms shall meet the requirements of and be subject to approval by the City Attorney.

Prior to the acceptance of any bond, the City shall verify that the surety is an admitted surety in the State of California. If requested by the City, the Contractor shall provide other information specified in the Code of Civil Procedure Section 995.660 to enable the City to verify the sufficiency of the bond.

Should any bond become insufficient, the Contractor shall correct the insufficiency within ten (10) calendar days after receiving notice from the City. The Contractor shall provide the City with evidence of the correction within ten (10) calendar days of said correction. Should any surety at any time be unsatisfactory to the City, written notice will be given to the Contractor to that effect. No further payments shall be deemed due or will be payable under the Contract until Contractor submits an acceptable bond from a surety accepted by the City. Changes to the work or extensions of time made pursuant to the Contract Agreement shall in no way release the Contractor or the surety from its obligations. Notice of such changes or extensions shall be waived by the surety.

The Contractor shall pay all bond premiums, costs, and incidentals.

SECTION 2 – SCOPE OF THE WORK.

2-1 WORK TO BE DONE

2-1.1 Plans and Specifications [Add the following Subsection]:

The Contractor shall maintain a control set of Plans and Specifications on the Project site at all times. All final locations determined in the field, and any deviations from the Plans and Specifications, shall be marked in red on this control set to show the as-constructed conditions. Upon completion of all work, the Contractor shall return the control set to the Engineer. Final payment will not be made until this requirement has been met.

2-2 PERMITS. [Replace section with the following]:

Prior to the start of any work, the Contractor shall take out the applicable City and State permits and make arrangements for City and State inspections. Requests for inspections shall be made to the City at least 24 hours in advance of need. The Contractor and all subcontractors shall each obtain any and all other permits, licenses, inspections, certificates, or authorizations required by any governing body or public utility. Payment for this work shall be included in the bid items of work and no additional compensation will be allowed. The City will waive the usual City encroachment permit fees.

Further, Contractor shall ensure that its employees, agents, contractors, and subcontractors conduct themselves in compliance with such laws and licensure requirements including, without limitation, compliance with laws applicable to nondiscrimination, sexual harassment, and ethical behavior throughout the duration of the Contract. Contractor shall not retain or employ an unlicensed subcontractor to perform work pursuant to this Contract. Contractor shall notify the City immediately and in writing of its employees', agents', contractors' or subcontractors' inability to obtain or maintain, irrespective of the pendency of any appeal, any such licenses, permits, approvals, certificate, waivers, and exemptions that may be required. Such inability shall be cause for termination of this Contract

2-2.1 City Business License. [Add the following Subsection]:

City Business License - The successful contractor and any subcontractor thereof will be required to comply with the City Business Licensing provisions and pay all fees therefor. No free or exempt license will be issued by the City.

2-3 RIGHT-OF-WAY. [Add the following]:

The City will acquire all rights of way, easements and rights of entry as required for this Project. The Contractor shall verify that the acquisition(s) is/are completed prior to beginning any work outside of the public right of way. All cost for re-mobilization, downtime, etc. due to delays in obtaining the required rights of way, easements and rights of entry shall be included in all other items of work and no additional compensation will be allowed. In the event the required easements have not yet been acquired by the City, the Contractor shall conduct its operation so as to confine its work to the limits of the existing right-of-way.

2-10 DISPUTED WORK. [Add the following]:

In any case where the Contractor believes extra compensation is due the Contractor for work or materials not clearly covered in the Contract, or not ordered by the City as "extra work", the Contractor shall notify the City in writing of the Contractor's intention to make claim for such extra compensation before the Contractor begins the work on which Contractor bases the claim. If such notification is not given, or the City is not afforded proper supporting documentation by the Contractor for keeping strict account of actual cost, then the Contractor shall be deemed to have waived the claims for such extra compensation. Such notice by the Contractor, and the fact that the City has kept account of the cost as aforesaid, shall not in any way be construed as proving the validity of the claim. The validity of the claim must be determined by the City. If the City determines that the claim is well founded, it shall be allowed and paid for as "extra work"; if the City determines that the claim is not well founded, it shall be disallowed and not paid.

SECTION 3 – CONTROL OF THE WORK

3-12.1 General [Add the following]:

The Contractor shall behave, at all times, in a courteous, professional manner. While on site, or entering or exiting the site, there shall be no extraneous activity that might cause disruption to the

Project site, surrounding areas, or residents. Failure to comply may result in the suspension of work, or removal of contractor's staff from the Project.

3-10 SURVEYING

3-10.1 General. [Replace with the following]:

The Contractor, through a California Licensed Land Surveyor, shall provide the initial surveying and the initial construction staking, as required for the construction of this Project. The cost of any additional surveying and/or construction staking primarily for the convenience of the Contractor and for replacement of stakes lost for any reason will be the responsibility of the Contractor. The Contractor shall provide all survey "cut sheets" to the Inspector upon request.

The Contractor shall be responsible for the finished work conforming to the lines, grades and benchmarks given by the Engineer. The Contractor shall establish supplementary benchmarks, elevations, lines and grades and any other necessary controls which are not established by the Engineer and which are necessary to complete the work. Compensation for all survey work shall be included within the various items of work and no additional compensation will be allowed.

3-10.3 Permanent Survey Markers. [Add the following Subsection]:

Prior to start of construction, the Contractor's surveyor shall inventory all existing survey monuments and ties within the Project limits. Monument records are for information purposes only, and may be requested from the City upon request. The Contractor is responsible for ensuring that all survey monuments and ties are restored. The Contractor's surveyor shall file a Corner Record Form referencing survey monuments subject to disturbance in the Office of the County Surveyor. A copy of the filing shall be provided to the City prior to commencement of any work.

The Contractor shall obtain prior approval from the Engineer before setting new survey monuments. When a change is made in the finished elevation of the pavement of any roadway in which a permanent survey marker is located, the Contractor shall install a new survey monument to the new grade within seven (7) days of finished paving. The survey monument shall be installed to match the existing type destroyed. The Contractor will then reset ties and file a Corner Record Form in the Office of the County Surveyor.

3-12 WORK SITE MAINTENANCE.

3-12.1 General. [Replace the second paragraph as follows]:

The contractor shall, at all times, provide a street legal and licensed self-loading motorized street sweeper equipped with a functional water spray system. The sweeper shall clean all paved areas within the Work site and all paved haul routes at least once each working day and as needed. The Contractor shall keep adjacent properties clean and free of rubbish and debris in a timely manner as necessary and/or as directed by the Engineer. The Contractor shall implement effective handling, storage, usage, and disposal practices to control material pollution and manage waste and nonstormwater at the job site before they come in contact with storm drain systems and receiving waters.

The Contractor shall:

- (a) Initiate and maintain a daily program to prevent accumulation of debris on-site and along access roads and haul routes. Maintain areas under Contractor's control free of waste materials, debris, weeds 6" high, and rubbish. Maintain site in a clean and orderly condition.
- (b) Provide suitable covered containers for deposit of debris and rubbish. Dispose of accumulation of extraneous materials, prohibit overloading of trucks to prevent spillages on

access and haul routes and provide daily inspection of haul routes to enforce requirements.

- (c) The Contractor shall supply self-loading motorized street sweepers equipped with a functional water spray system as part of his daily program.
- (d) Schedule at a minimum, weekly collection and disposal of debris. Provide additional collections and disposals of debris whenever the weekly schedule is inadequate to prevent accumulation.

The Contractor shall remove debris from closed or remote spaces prior to closing the space, control cleaning operations to minimize dust and other particulates and immediately remove clay and earth which adhere to the paved surface of the roadway. Remove by hand scraping, washing, sweeping, and/or other method(s) which will leave a clean non-skid surface without impairing, injuring or loosening the surface.

The Contractor is required to control dust throughout the life of the Contract. The control may be required by job conditions or City Engineer. In any case, the Contractor shall use water or other means to control the dust. No chemical agents may be used without written authorization from the Agency. The Contractor shall be solely responsible for safety problems, accidents or any other complications or claims arising from inadequate dust control.

No separate payment will be made for any work performed or material used to control dust resulting from the Contractor's performance of the work, or by public traffic, either inside or outside the right-of-way. Full compensation for such dust control will be considered as included in the price paid for the various items of work involved.

No separate payment will be made for any work performed or material used in cleaning the Project. Full compensation for such cleaning shall be considered as included in the price paid for the various items of work involved and no additional compensation will be allowed therefore.

[Add the following to this section]:

The contractor shall make his own arrangements for disposal of materials outside the City premises or right-of-way, and he shall pay all costs involved. EDCO Disposal Services, Inc. has the exclusive right of collection of refuse and construction materials & demolition debris (C & D) in the City of Lakewood and may be reached at (562) 531-3054. The only exception is if the Contractor can provide evidence that the C & D containers to be utilized on this project are owned by the General Contractor. The Contractor shall comply with the City's "Waste Management Planning for C & D Projects" document contained in the Appendix of these specifications, and complete and submit "C & D Materials Estimate" forms to the City of Lakewood Department of Public Works upon completion of demolition work.

3-12.3 Noise [Replace with the following]

A noise level limit of 86 dbA at a distance of fifty feet (50') shall apply to all construction equipment on or related to the job whether owned by the Contractor or not. The use of excessively loud warning signals shall be avoided except in those cases required for the protection of personnel.

3-12.4.2 Storage in Public Streets. [Replace entire section with the following]:

The Contractor is required to, at his own expense, maintain and operate a work and storage area outside of the public right-of-way. In such case the Contractor shall submit to City written authorization from the owners of the subject property prior to occupation. Occupation of site without written authorization shall be grounds for immediate suspension of work. Location of site

to be approved by City. Condition and operation of yard shall conform to these specifications. The Contractor shall assume full responsibility for all damage to the site resulting from his operations and shall repair and/or replace same, at his own expense, to the satisfaction of the owner of the subject property. The Contractor shall vacate site and return it to pre-Project condition within five (5) working days following application for Notice of Completion. The Contractor shall obtain a written release from the property owner accepting the condition of the vacated site and releasing the Contractor from any further clean-up or restoration work and shall submit a copy of such release to City. The Notice of Completion will not be issued until said release is submitted.

3-12.6.2 Best Management Practices (BMPs). [Add the following]:

Per the Federal Clean Water Act, the Contractor is required to eliminate pollution to waters of the United States in regards to this Project. This Project will require the Contractor to implement "Best Management Practices".

The Contractor shall submit a Water Pollution Control Plan (WPCP) consistent with the LA County NPDES Permit requirements and/or the State Construction Water Quality Permit. The Contractor shall confirm that all of the Best Management Practices (BMP's) have been adequately detailed that addresses his or her anticipated construction operations and meets the intent of the NPDES requirements. The Contractor shall obtain a Notice of Intent (NOI) from the State Water Resources Control Board and pay all related fees. The NOI shall be submitted as part of the WPCP. After the Notice of Award, the Contractor shall submit to the City a finalized and signed WPCP, which establishes the construction BMP requirements, for review and approval. No work will be allowed to begin without an approved WPCP on file with the City.

The Contractor shall utilize Best Management Practices (BMP's) outlined in the WPCP during construction to ensure that sediment from storm runoff and construction activities does not enter storm drains. The BMPs shall be consistent with those defined in the CASQA BMP Handbook or equivalent as approved by the Engineer.

It is anticipated that storm, surface or other waters will be encountered at various times and locations during the work herein contemplated. The Contractor, by submitting a bid, acknowledges that he has investigated the risk arising from such waters and has prepared his bid accordingly, and Contractor, by submitting a bid, assumes all of said risk. The Contractor shall provide and maintain at all times during construction ample means and devices to promptly remove and properly dispose of all water entering the excavations or other parts of the work. No concrete footing or floor shall be laid in water nor shall water be allowed to rise over them until the concrete or mortar has set at least two (2) hours. Water shall not be allowed to rise unequally against any walls for a period of twenty-eight (28) days. Dewatering for the structures and pipelines shall commence when ground water is first encountered, and shall be continuous until such time as water can be allowed to rise in accordance with the above statement. Dewatering shall be accomplished by well points or some other method which will insure a dry hold and preservation of final lines and grade of the bottoms of excavation, all subject to the approval of the City Engineer.

Dewatering methods and disposal of water from dewatering operations shall be the sole responsibility of the Contractor and shall conform to the requirements of the State Regional Water Quality Control Board, the requirements of the National Pollution Discharge Elimination System (NPDES), and the Federal Clean Water Act. Full compensation for dewatering shall be considered as included in the contract prices paid for the related items of work, and no additional compensation will be allowed therefore.

3-13 COMPLETION, ACCEPTANCE AND WARRANTY

3-13.2 Acceptance [Add the following]:

Work will be deemed accepted on the same date when the Notice of Completion is recorded with the Los Angeles County Recorder.

3-13.3 Warranty. [Add the following]:

This sub-section does not in any way limit any guarantee on any item for which a longer guarantee is specified, or on any item for which a manufacturer gives a guarantee for a longer period, nor does it limit other remedies to the City in respect to latent defects, fraud or implied warranties. Contractor shall furnish the City all appropriate guarantee or warranty certificates upon completion of the project.

SECTION 4 - CONTROL OF MATERIALS

4-2 PROTECTION

4-2.1 General [Add the following new subsection]

Until Acceptance of the Work, the Contractor shall have the responsibility, charge and care of the Work and of the materials to be used therein (including materials for which it has received partial payment or materials which have been furnished by the City) and shall bear the risk of injury, loss or damage to any part thereof by the action of the elements or from any other cause, whether arising from the execution or from the non-execution of the Work.

The Contractor shall rebuild, repair, restore, and make good all injuries, losses, or damages to any portion of the work or the material occasioned by any cause before its completion and acceptance and shall bear the expense thereof. Where necessary to protect the work or materials from damage, the Contractor shall at his expense provide suitable drainage and erect such temporary structures as are necessary to protect the work or materials from damage. The suspension of the work from any cause whatever shall not relieve the Contractor of his responsibility for the work and materials as herein specified. If ordered by the City Engineer, the Contractor shall at his expense properly store materials which have been partially paid for by the City or which have been furnished by the City. Such storage by the Contractor shall be on behalf of the City, the City shall at all times be entitled to the possession of such materials, and the Contractor shall promptly return the same to the site of the work when requested. The Contractor shall not dispose of any of the materials so stored, except on written authorization from the City.

In an emergency affecting the safety of life or property, including adjoining property, the Contractor, without special instructions or authorizations, is authorized and responsible to act at his discretion to prevent such threatened loss or injury.

4-3 INSPECTION

4-3.1 General. [Add the following]:

The City will pay for inspection and materials testing. The Contractor shall pay for retests and re-inspections due to failure to meet Specifications. If the Contractor elects to work under this Contract more than 8 hours/day or more than 40 hours/week, Saturday, Sunday, or City holidays, if said weekend and holiday work is approved by the City Engineer, it shall arrange with the Engineer for the required inspection service and pay the Special Inspection Fees as provided by the Material Inspector and City Engineer. When Special Inspection is required, the Contractor shall notify the City and pay inspection fees 24 hours in advance. A 24 hour advance notice will be given during working hours, exclusive of Saturday, Sunday or City holidays for the purpose of permitting the Engineer to make necessary assignments of his representatives. If the Contractor

is directed by the City to work under this Contract more than 8 hours/day or more than 40 hours/week, the Special Inspection Fee requirements will be waived.

SECTION 5 – LEGAL RELATIONS AND RESPONSIBILITIES

5-1 LAWS AND REGULATIONS. [Add the following]:

The Contractor, and all subcontractors, suppliers and vendors, shall comply with all City, State, and Federal orders regarding affirmative action to ensure equal employment opportunities and fair employment practices. Failure to file any report due under said orders will result in suspension of periodic progress payments.

The Contractor shall ensure unlimited access to the job site for all equal employment opportunity compliance officers.

5-3 LABOR.

5-3.2 Prevailing Wages [Add the following]:

The City has determined that the work on this Project requires work of labor categories which are subject to the State of California Department of Industrial Relations prevailing rates of per diem wages.

Contractor is aware of the requirements of California Labor Code Section 1720, et seq., and 1770, et seq., as well as California Code of Regulations, Title 8, Section 16000, et seq., (“Prevailing Wage Laws”), which require the payment of prevailing wage rates and the performance of other requirements on “public works” and “maintenance” projects. Contractor agrees to fully comply with all applicable federal and state labor laws (including, without limitation, if applicable, the Prevailing Wage Laws). It is agreed by the parties that, in connection with the work provided pursuant to the Agreement, Contractor shall bear all risks of payment or non-payment of prevailing wages under California law, and Contractor hereby agrees to defend, indemnify, and hold the City, its elected officials, officers, employees, and agents free and harmless from any claim or liability arising out of any failure or alleged failure to comply with the Prevailing Wage Laws. The foregoing indemnity shall survive termination of the Agreement.

Contractor understands and agrees to comply with the following California Labor Code compliance conditions, Labor Code Sections 1720 et seq., 1813, 1860, 1861, 3700:

a) The Agreement is subject to the provisions of Division 2, Part 7, Chapter 1 (commencing with Section 1720) of the California Labor Code relating to public works and the awarding public agency (“City”) and Contractor agree to be bound by all the provisions thereof as though set forth in full herein.

b) Contractor shall be registered with the Department of Industrial Relations (“DIR”) in accordance with California Labor Code Section 1725.5 and has provided proof of registration to City prior to the effective date of this Agreement.

c) Contractor agrees to comply with the provisions of California Labor Code Sections 1771, 1774 and 1775 concerning the payment of prevailing rates of wages to workers and the penalties for failure to pay prevailing wages. The applicable prevailing wage determination(s) may be obtained at <https://www.dir.ca.gov/OPRL/DPreWageDetermination.htm> are on file with City, and are available to any interested party upon request. A copy of said rates shall be posted at each job site during the term of this Agreement.

d) Pursuant to California Labor Code Section 1771.4, Contractor's services are subject to compliance monitoring and enforcement by the Department of Industrial Relations. Contractor shall post job site notices as prescribed by DIR regulations and furnish the records specified in California Labor Code Section 1776 directly to the Labor Commissioner in the manner prescribed by California Labor Code Section 1771.4(a)(3) and (c)(2).

e) Eight (8) hours of labor shall constitute a legal day's work for all workmen employed in the execution of this Agreement, and the Contractor and any subcontractor shall comply with and be governed by the laws of the State of California having to do with working hours set forth in Division 2, Part 7, Chapter 1, Article 3 of the California Labor Code. Contractor shall comply with the provisions of California Labor Code Section 1813 concerning penalties for workers who work excess hours. Contractor shall, as a penalty to the City, forfeit twenty-five dollars (\$25) for each worker employed in the execution of this Agreement by the Contractor or by any subcontractor for each calendar day during which such worker is required or permitted to work more than eight (8) hours in any one calendar day and forty (40) hours in any one calendar week in violation of the provisions of Division 2, Part 7, Chapter 1, Article 3 of the California Labor Code. (See, e.g., Cal. Labor Code §1815.)

f) Pursuant to California Labor Code Section 1771.1, Contractor and any subcontractor shall not be qualified to bid on, be listed in a bid Proposal, subject to the requirements of Section 4104 of the California Public Contract Code, or engage in the performance of any contract for public work on a public works project unless registered with the DIR and qualified to perform public work pursuant to California Labor Code Section 1725.2. It is not a violation of California Labor Code Section 1771.1 for an unregistered contractor to submit a bid that is authorized by California Business and Professions Code Section 7029.1 or by California Public Contract Code Section 10164 or 20103.5, provided the contractor is registered to perform public work pursuant to Section 1725.5 at the time the contract is awarded. Contractor shall not perform any work under this Agreement with any subcontractor who is ineligible to perform work on the public works project pursuant to Section 1777.1 or 1777.7 of the California Labor Code.

Apprentices

Section 1777.5 requires the Contractor or Subcontractor employing tradesmen in any apprenticeable occupation to apply to an applicable apprenticeship committee that can supply apprentices to the site of the public works project and which administers the apprenticeship program in that trade for a certificate of approval. The certificate will also fix the ratio of apprentices to journeymen to be used in the performance of the Contract.

The Contractor is required to make contributions to funds established for the administration of apprenticeship programs if he employs registered apprentices or journeymen in any apprenticeable trade and if other Contractors on the public works site are making such contributions.

Information relative to apprenticeship standards, contributions, wage schedules and other requirements may be obtained from the State Director of Industrial Relations or from the Division of Apprenticeship Standards.

5-3.3 Payroll Records. [Add the following]:

Contractor shall comply with the provisions of California Labor Code Section 1776 which, among other things, require Contractor and each subcontractor to (1) keep accurate payroll records, (2)

certify and make such payroll records available for inspection as provided by Section 1776, and (3) inform the City of the location of the records. The Contractor is responsible for compliance with Section 1776 by itself and all of its subcontractors. Verified payroll records shall be submitted to the City by the tenth day of each month. Progress payments will be withheld pending receipt of any outstanding reports.

5-4 INSURANCE.

5-4.1 General. [Add the following]:

Contractor shall obtain, maintain, and keep in full force and effect during the term of this Agreement, at its sole cost and expense, and in a form and content satisfactory to City, all insurance required under this section. Contractor shall not commence any work or services under this Agreement unless and until it has provided evidence satisfactory to City that it has secured all insurance required under this section. If Contractor's existing insurance policies do not meet the insurance requirements set forth herein, Contractor agrees to amend, supplement or endorse the policies to do so.

5-4.2 General Liability Insurance. [Replace with the following]:

As a condition precedent to the effectiveness of this Agreement, and without limiting the indemnity provisions set forth in this Agreement, Contractor shall obtain and maintain in full force and effect during the term of this Agreement, including any extension thereof, the following policies of insurance:

A. Commercial General Liability Insurance. Contractor shall obtain and maintain, in full force and effect throughout the term of this Agreement, a policy of Commercial General Liability Insurance (Insurance Services Office form CG 00 01) written on an occurrence basis with limits of at least five million dollars (\$5,000,000.00) per occurrence, five million dollars (\$5,000,000.00) in the general aggregate, and five million dollars (\$5,000,000.00) for completed operations aggregate. Defense costs shall be paid in addition to the limits. The policy shall contain no endorsements or provisions limiting coverage for (1) contractual liability; (2) cross liability exclusion for claims or suits by one insured against another; or (3) contain any other exclusion contrary to the Agreement.

B. Automobile Liability Insurance. Contractor shall obtain and maintain, in full force and effect throughout the term of this Agreement, a policy of Automobile Liability Insurance (Insurance Services Office form CA 001) written on a per occurrence basis with limits of at least five million dollars (\$5,000,000.00) combined limit for each occurrence covering bodily injury and property damage. The policy shall specifically include coverage for owned, non-owned, leased, and hired automobiles.

C. Workers' Compensation Insurance. Contractor shall obtain and maintain, in full force and effect throughout the term of this Agreement, a policy of Workers' Compensation Insurance in at least the minimum statutory amounts, and in compliance with all other statutory requirements, as required by the State of California. Contractor agrees to waive and obtain endorsements from its workers' compensation insurer waiving all subrogation rights under its workers' compensation insurance policy against the City, its officials, officers, employees, agents and volunteers, and to require each of its subcontractors, if any, to do likewise under their workers' compensation insurance policies. Contractor shall obtain and maintain, in full force and effect throughout the term of this Agreement, a policy of Employer's Liability Insurance written on a per occurrence basis with limits of at least one million dollars (\$1,000,000.00) per accident for bodily injury or disease.

5-4.5 Acceptability of Insurers. [Add the following new Subsection]:

Insurance required by this section shall be issued by a licensed company authorized to transact business in the state by the Department of Insurance for the State of California with a current rating of A-:VII or better (if an admitted carrier), or a current rating of A:X or better (if offered by a non-admitted insurer listed on the State of California List of Approved Surplus Line Insurers (LASLI), by the latest edition of A.M. Best's Key Rating Guide, except that the City will accept workers' compensation insurance from the State Compensation Fund. In the event the City determines that the work or services to be performed under this Agreement creates an increased or decreased risk of loss to the City, the Contractor agrees that the minimum limits of the insurance policies may be changed accordingly upon receipt of written notice from the City. Contractor shall immediately substitute any insurer whose A.M. Best rating drops below the levels specified herein.

5-4.6 Insurance Endorsements. [Add the following new Subsection]:

Required insurance policies shall not be in compliance if they include any limiting provision or endorsement that has not been submitted to the City for written approval. Required insurance policies shall contain the following provisions, or Contractor shall provide endorsements on forms approved by the City to add the following provisions to the insurance policies:

A. The policy or policies of insurance required by this section for Commercial General Liability and Automobile Liability Insurance shall be endorsed to provide the following:

(1) Additional Insured: The City, its officials, officers, employees, agents and volunteers, shall be additional insureds with regard to liability and defense of suits or claims arising out of the performance of the Agreement; and

(2) Additional Insured Endorsements: Additional insured endorsements shall not (1) be restricted to "ongoing operations", (2) exclude "contractual liability", (3) restrict coverage to "sole" liability of Contractor, or (4) contain any other exclusions contrary to the Agreement; and, the coverage shall contain no special limitations on the scope of protection afforded to additional insureds.

(3) Notice: The policy or policies of insurance required by this section for Commercial General Liability and Automobile Liability Insurance shall be endorsed to state that coverage shall not be suspended, voided, cancelled, or modified, or reduced in coverage or in limits, except after thirty (30) days prior written notice by First Class U.S. Mail, postage-prepaid, has been provided to the City. Notwithstanding the foregoing, if coverage is to be suspended, voided, or cancelled because of Contractor's failure to pay the insurance premium, the notice provided to City shall be by ten (10) days prior written notice.

B. For all policies of Commercial General Liability Insurance, Contractor shall provide endorsements for completed operations to effectuate this requirement.

5-4.7 Deductibles and Self-Insured Retentions. [Add the following new Subsection]:

Any deductible or self-insured retention must be approved in writing by the City in advance and shall protect the City, its officials, officers, employees, agents and volunteers, in the same manner and to the same extent as they would have been protected had the policy or policies not contained a deductible or self-insured retention.

5-4.8 Primary and Non-Contributing Insurance. [Add the following new Subsection]:

All policies of Commercial General Liability Insurance and Automobile Liability Insurance shall be primary and any other insurance, deductible, or self-insurance maintained by the City, its officials, officers, employees, agents or volunteers, shall not contribute with this primary insurance. Policies shall contain or be endorsed to contain such provisions.

5-4.9 Waiver of Subrogation. [Add the following new Subsection]:

All policies of Commercial General Liability and Automobile Liability Insurance shall contain or be endorsed to waive subrogation against the City, its officials, officers, employees, agents and volunteers, or shall specifically allow Contractor or others providing insurance evidence in compliance with the requirements set forth in this section to waive their right to recovery prior to a loss. Contractor hereby agrees to waive its own right of recovery against the City, its officials, officers, employees, agents and volunteers, and Contractor hereby agrees to require similar written express waivers and insurance clauses from each of its subcontractors.

5-4.10 Evidence of Coverage. [Add the following new Subsection]:

Concurrently with the execution of the Agreement, Contractor shall deliver certificates of insurance together with original endorsements affecting each of the insurance policies required by this section. Required insurance policies shall not be in compliance if they include any limiting provision or endorsement that has not been submitted to the City for written approval. The certificates of insurance and original endorsements for each insurance policy shall be signed by a person authorized by that insurer to bind coverage on its behalf. At least fifteen (15) days prior to the expiration of any such policy, evidence of insurance showing that such insurance coverage has been renewed or extended shall be filed with the City. If such coverage is cancelled or reduced and not replaced immediately so as to avoid a lapse in the required coverage, Contractor shall, within ten (10) days after receipt of written notice of such cancellation or reduction of coverage, file with the City evidence of insurance showing that the required insurance has been reinstated or has been provided through another insurance company or companies. Contractor shall promptly furnish, at City's request, copies of actual policies including all declaration pages, endorsements, exclusions and any other policy documents City requires to verify coverage.

5-4.11 Requirements Not Limiting. [Add the following new Subsection]:

Requirement of specific coverage or minimum limits contained in this section are not intended as a limitation on coverage, limits, or other requirements, or a waiver of any coverage normally provided by any insurance. Nothing in this section shall be construed as limiting in any way the indemnification provision contained in this Agreement, or the extent to which Contractor may be held responsible for payments of damages to persons or property.

5-4.12 Enforcement of Agreement (Non-Estoppel). [Add the following new Subsection]:

Contractor acknowledges and agrees that actual or alleged failure on the part of the City to inform Contractor of any non-compliance with any of the insurance requirements set forth in this section imposes no additional obligation on the City nor does it waive any rights hereunder.

5-4.13 Insurance for Subcontractors. [Add the following new Subsection]:

Contractor shall either: (1) include all subcontractors engaged in any work or services for Contractor relating to this Agreement as additional named insureds under the Contractor's insurance policies; or (2) Contractor shall be responsible for causing its subcontractors to procure and maintain the appropriate insurance in compliance with the terms of the insurance requirements set forth in this section, including adding the City, its officials, officers, employees, agents and volunteers, as additional insureds to their respective policies. All policies of Commercial General Liability Insurance provided by Contractor's subcontractors performing any work or services related to this Agreement shall be endorsed to name the City, its officials, officers,

employees, agents and volunteers, as additional insureds. Contractor shall not allow any subcontractor to commence any work or services relating to this Agreement unless and until it has provided evidence satisfactory to City that the subcontractor has secured all insurance required under this section.

5-4.14 Other Insurance Requirements. [Add the following new Subsection]:

The following terms and conditions shall apply to the insurance policies required of Contractor pursuant to this Agreement:

A. Contractor shall provide immediate written notice to City if (1) any of the insurance policies required herein are terminated, cancelled or suspended, (2) the limits of any of the insurance coverages required herein are reduced, or (3) the deductible or self-insured retention is increased.

B. All insurance coverage and limits provided by Contractor and available or applicable to this Agreement are intended to apply to each insured, including additional insureds, against whom a claim is made or suit is brought to the full extent of the policies. Nothing contained in this Agreement or any other agreement relating to the City or its operations shall limit the application of such insurance coverage.

C. None of the insurance coverages required herein will be in compliance with the requirements of this section if they include any limiting endorsement which substantially impairs the coverages set forth herein (e.g., elimination of contractual liability or reduction of discovery period), unless the endorsement has first been submitted to the City and approved in writing.

D. Certificates of insurance will not be accepted in lieu of required endorsements, and submittal of certificates without required endorsements may delay commencement of the Project. It is Contractor's obligation to ensure timely compliance with all insurance submittal requirements as provided herein.

E. Contractor agrees to ensure that subcontractors, if any, and any other parties involved with the Project who are brought onto or involved in the Project by Contractor, provide the same minimum insurance coverage required of Contractor. Contractor agrees to monitor and review all such coverage and assumes all responsibility for ensuring that such coverage is provided in conformity with the requirements of this section. Contractor agrees that upon request, all agreements with subcontractors and others engaged in the Project will be submitted to the City for review.

F. Contractor agrees to provide immediate written notice to City of any claim, demand or loss against Contractor arising out of the work or services performed under this Agreement and for any other claim, demand or loss which may reduce the insurance available to pay claims, demands or losses arising out of this Agreement.

5-4.15 Contractor's Liability; City Not Liable; Claims Resolution. . [Add the following new Subsection]:

A. Contractor's liability. The Contractor shall be responsible for any loss or damage that may occur to:

- The work or any part thereof;
- Any of the materials or other things used or employed in performing the work;
- Any injury to any person or persons, either workers or the public;

- Any damage to property resulting from any cause which might have been prevented by the Contractor, including defects or obstructions at any time before completion of the work and its final acceptance.

B. City ordered precautions. If, in the opinion of the City Engineer, the precautions taken by Contractor are not safe or adequate at any time during the term of the Contract, the City Engineer may order the Contractor to take further precautions, and if the Contractor shall fail to do so, the City Engineer may order the work done by others and charge the Contractor for the cost thereof, such cost to be deducted from any moneys due or becoming due the Contractor. Failure of the City Engineer to order such additional precautions, however, shall not relieve the Contractor from his full responsibility for public safety.

C. City not liable. The City shall not be answerable or accountable in any manner, for any loss or damage that may occur to any of the following from any cause which might have been prevented by the Contractor:

- The work or any part thereof;
- Any of the materials or other things used or employed in performing the work;
- Any injury to any person or persons, either workers or the public;
- Any damage to property.

D. Claims Resolution. From time to time during the period of this contract, the City and/or the Contractor may be served with third-party claims, as a result of alleged conduct by Contractor. The following procedures shall be followed by City and Contractor:

For claims received by Contractor:

(1) Contractor shall provide City on a monthly basis details regarding any claim for damages to persons or property, including, date claim made, date of alleged damages, type of damages, alleged cause of damages and, as claims are resolved, details regarding Contractor's denial or payment of such claim and the reasons for denial or payment.

(2) Contractor shall resolve or deny any claim received within thirty (30) days of receipt. If Contractor is unable to resolve a claim within the thirty (30) days set forth above, it shall, prior to the expiration of the thirty (30) days request and extension in writing from the City.

For claims received by City:

(1) City shall process any claims received pursuant to Section 2520. Claims. of the Lakewood Municipal Code.

(2) If after investigation of the claim, the City determines the Contractor is liable under this Contract, City shall tender the claim to the Contractor for proper handling and resolution.

E. Retention of Claimed Damages by City. The City may retain so much of the money due the Contractor under and by virtue of the Contract as shall be considered necessary by the City until disposition has been made of such suits or claims for damages aforesaid.

5-7 SAFETY.

5.7.2 Safety Orders

5.7.2.1 General. [Add the following]:

The Contractor shall comply with the provisions of any City ordinances or regulations regarding requirements for the protection of excavations and the nature of such protection.

SECTION 6 - PROSECUTION AND PROGRESS OF THE WORK

6-1 CONSTRUCTION SCHEDULE AND COMMENCEMENT OF WORK.

6-1.0 General. [Add the following Subsection]:

The Contractor's proposed Construction Schedule shall be submitted to the Engineer within ten (10) days after the date of the formal Notice of Apparent Low Bidder. The schedule shall be supported by written statements from each supplier of materials or equipment indicating that all orders have been placed and acknowledged, and setting forth the dates that each item will be delivered. The schedule shall establish the order of work which minimizes disruption of existing travel lanes.

Prior to issuing the Notice to Proceed, the Engineer will schedule a preconstruction meeting with the respective Contractor to review the proposed Construction Schedule and delivery dates, arrange the utility coordination, discuss construction methods, and clarify inspection procedures.

The Contractor shall submit periodic Progress Reports to the Engineer by the tenth day of each month. The report shall include an updated Construction Schedule. Any deviations from the original schedule shall be explained. Liquidated damages will be assessed pending receipt of any outstanding reports, as set forth in Section 6-9.1 below.

6-1.3 Construction Schedule (Critical Path Method) [Add the following Subsection]:

The Contractor shall submit to the Engineer practicable critical path method (CPM) progress schedules in conformance with these Special Provisions. Whenever the term "schedule" is used in this section it shall mean CPM progress schedule illustrated by the Gantt Bar method. The schedule shall be prepared by qualified and experienced scheduling staff.

Schedules shall show the order in which the Contractor proposes to carry out the work with logical links between time-scaled work activities, and calculations made using the critical path method to determine the controlling operation or operations. The Contractor is responsible for assuring that all activity sequences are logical and that each schedule shows a coordinated plan for complete performance of the work.

The Contractor shall produce schedules using computer software and shall furnish compatible software for the Engineer's exclusive possession and use. The Contractor shall furnish network diagrams, narrative reports, tabular reports and schedule data as parts of each schedule submittal.

The number of activities shall be sufficient to assure adequate planning of the Project, to permit monitoring and evaluation of progress, and to do an analysis of time impacts.

Schedule activities shall include the following:

- A. A clear legible description.
- B. Start and finish dates.

- C. A duration of not less than one working day, except for event activities, and not more than 20 working days, unless otherwise authorized by the Engineer.
- D. At least one predecessor and one successor activity, except for Project start and finish milestones.
- E. Required constraints.
- F. Codes for responsibility, stage, work shifts, location and contract pay item numbers.

The Contractor may show a scheduled completion date that is later than the Contract completion date on an update schedule, after the baseline schedule is accepted. The Contractor shall provide an explanation for a late scheduled completion date in the narrative report that is included with the schedule.

The Engineer's review and acceptance of schedules shall not waive any Contract requirements and shall not relieve the Contractor of any obligation thereunder or responsibility for submitting complete and accurate information. Schedules that are rejected shall be correct by the Contractor and resubmitted to the Engineer within five (5) working days of notification by the Engineer, at which time a new review period of one week will begin.

Errors or omissions on schedules shall not relieve the contractor from finishing all work within the time limit specified for completion of the Contract. If, after, a schedule has been accepted by the Engineer, either the Contractor or the Engineer discovers that any aspect of the schedule has an error or omission, it shall be corrected by the Contractor on the next schedule.

Payment for the Project schedule and revisions/updates to the schedule shall be made under other items of work and no additional payment shall be made therefore.

6-1.4 Acceleration. [Add the following Subsection]:

The City reserves the right to accelerate the work of the Contract at any time during its performance. In the event the City directs acceleration, such directive will be given to the Contractor in writing. The Contractor shall keep cost and other Project records related to the acceleration directive separately from the normal Project cost records and shall provide a written record of acceleration costs to the City on a daily basis.

In the event the Contractor believes that some action or inaction on the part of the City constitutes an acceleration directive, the Contractor shall immediately notify the City in writing that the Contractor considers the actions or inactions an acceleration directive. The Contractor shall not accelerate their work efforts until the City responds to the written notification. If acceleration is then directed or required by the City, all cost records referred to in the previous paragraph shall be maintained by the Contractor and provided to the City on a daily basis.

In order to recover additional costs due to acceleration, the Contractor must document that additional expenses were incurred and paid by the Contractor. Labor costs recoverable will only be overtime or shift premium costs or the cost of additional laborers brought to the site to accomplish the accelerated work effort. Equipment costs recoverable will only be the cost of added equipment mobilized to the site to accomplish the accelerated work effort.

6-3 TIME OF COMPLETION.

6-3.1 General. [Add the following to this section]:

The time for completion shall be as set forth in the General Provisions.

6-3.2 Contract Time Accounting. [Add the following]:

The Contractor's activities shall be confined to the hours between 8:00 AM and 4:00 PM, Monday through Friday, excluding holidays, unless otherwise specified. Work shall be prohibited any time on Saturday, Sunday or Federal Holidays except as provided herein. Deviation from these hours will not be permitted without the prior consent of the Engineer, except in emergencies involving immediate hazard to persons or property.

In the event of either a requested or emergency deviation, inspection service fees will be charged against the Contractor. The service fees will be calculated at overtime rates (premium time) including benefits, overhead, and travel time and are established based on the City's current fee schedule or professional services agreement for construction inspection services. The service fees will be deducted from any amounts due the Contractor.

Construction activities during City Special Events may be restricted by City to exclude all or part of the work on primary arterial or access roads to the Special Events as determined by Engineer. The Contractor shall be responsible to ascertain the exact times of any such events within his proposed construction schedule which may restrict his operation and shall adjust his schedule accordingly. The construction restrictions shall only be for the actual days the events occur. All costs for maintaining traffic control, protection of work site and re-mobilization shall be deemed as included in the lump sum contract for their respective items and no additional compensation will be allowed.

6-9 LIQUIDATED DAMAGES. [Add the following]:

It is agreed by the parties to the Contract that time is of the essence and that in the case that all the work is not complete before or upon the expiration of the time limit set forth, damage will be sustained by the City. For each consecutive calendar day in excess of the time specified for the completion of the work, the Contractor shall pay to the City \$1,000.00. The Contractor shall also pay to the City \$500.00 for each occurrence of work in the through or turning lanes in violation of these specifications as solely determined by City. In addition, the City shall have the right to charge to the Contractor and to deduct from payments for the work the actual cost to the City of engineering, inspection, superintendence, and other overhead expenses, which are directly chargeable to the Contract and which accrue during the period of such delay. The expenses and damages described above shall be deducted from any money due the Contractor under this contract. The Contractor and his sureties shall be liable for any excess cost.

6-9.1 Additional Liquidated Damages. [Add the following Subsection]:

Additional liquidated damages will also be assessed in the amount of \$500.00 per calendar day for failure to timely submit periodic progress reports as described in Section 6 of these Special Provisions.

Additional liquidated damages will also be assessed in the amount of \$500.00 per calendar day for failure to mobilize to the Project site within 10 working days of the date of the Notice of Proceed as specified in these Special Provisions.

Additional liquidated damages shall be assessed in the amount of \$1,000.00 per day for failure to restore damaged utilities within three (3) working days as specified in Section 402 of these Special Provisions.

Additional liquidated damages shall be assessed in the amount of \$500.00 per day for failure to comply with, or implement, or maintain the Storm Water Pollution Protection Plan (SWPPP) or

Water Pollution Control Plan (WPCP), as required, by the City's NPDES permit in addition to any penalties levied by any Regional Water Quality Control Board.

Additional liquidated damages shall be assessed in the amount of \$500.00 per incident that the Contractor fails to install the Best Management Practices (BMP's) within 24 hours of notification as described in Section 3 of the Special Provisions.

SECTION 7 - MEASUREMENT AND PAYMENT

7-3 PAYMENT.

7-3.2 Partial and Final Payment. [Add the following to this section]:

The closure date for periodic progress payments will be five (5) working days prior to the first Monday of each month. The final progress payment will not be released until the Contractor returns the control set of Plans and Specifications showing the as-constructed conditions.

If there is no specific bid item for a particular item of work, full compensation for such work shall be considered as included in the prices bid for other items of work.

SUBSTITUTION OF SECURITIES [Add the following to this section]:

In conformance with Public Contract Code Section 22300, the Contractor may substitute securities for any monies withheld by the City to ensure performance under the Contract Agreement.

At the request and expense of the Contractor, the Contractor has the option to deposit securities, which have been approved by the City, and deposited with a State or Federally chartered bank as the escrow agent. Said securities will be used as a substitute for retention earnings required to be withheld by the City, pursuant to the construction contract. The Contractor shall be the beneficial owner of any securities substituted for moneys withheld and shall receive interest thereon. Said securities shall have no obligation to any other construction contract for substitution of securities in lieu of retention. When the Contractor deposits the City approved securities with the escrow agent, the escrow agent shall notify the City within 10 calendar days of the deposit. Said securities shall be evaluated quarterly by the escrow agent to verify the current market value. If the current market value of said securities falls below the required amount, the escrow agent shall notify the Contractor and require additional securities and/or cash to be submitted for City approval, and be held in the escrow account to meet the Contractor's obligations. Said securities shall be held by the escrow agent until such time as the escrow agent receives written notification from the City that the Contractor has satisfactorily completed his contract obligations.

Alternatively, the Contractor may request and the City shall make payment of retention earned directly to the escrow agent at the expense of the Contractor. The Contractor may direct the investment of the payment into securities and the Contractor shall receive the interest earned on the investments upon the same terms provided for securities deposited by the Contractor.

The type of securities deposited and the method of release shall be approved by the City Attorney's office.

The full five percent (5%) retention will be deducted from all payments. The City shall hold retainage from the Contractor and shall make prompt and regular incremental acceptances of

portions, as determined by the City, of the Contract work, and pay retainage to the Contractor based on these acceptances. The Contractor, or subcontractor, shall return all monies withheld in retention from a subcontractor within 30 days after receiving payment for work satisfactorily completed and accepted including incremental acceptances of portions of the Contract work by the City. Federal law (49 CFR Section 26.29) requires that any delay or postponement of payment over 30 days may take place only for good cause and with the City's prior written approval. Any violation of this provision shall subject the violating Contractor or subcontractor to the penalties, sanctions and other remedies specified in Section 7108.5 of the Business and Professions Code. These requirements shall not be construed to limit or impair any contractual, administrative, or judicial remedies otherwise available to the Contractor or subcontractor in the event of a dispute involving late payment or nonpayment by the Contractor, deficient subcontract performance, or noncompliance by a subcontractor.

The final retention will be authorized for payment thirty-five (35) days after the date of recordation of the Notice of Completion. . The City may withhold from release of the final retention amounts authorized under Public Contracts Code Section 7107 and/or 125% of amounts identified in any Stop Notices received by the City.

7-3.3 Delivered Materials. [Add the following to this section]:

Materials and equipment delivered but not incorporated into the work shall not be included in the estimate for progress payment.

7-3.4 Mobilization. [Add the following to this section]:

Mobilization shall consist of preparatory work and operations, including but not limited to those necessary for the movement of personnel, equipment, supplies, and incidentals to the Project site; for the establishment of all offices, buildings and other facilities necessary for the work on this Project; and for all other work and operations which must be performed or cost incurred prior to beginning work on the various contract items on the Project site. Mobilization is deemed to include all aspects of mobilization and de-mobilization work occurring during the life of the Project for any reason.

Full compensation for mobilization shall be included in the Contract **LUMP SUM** price bid for **Mobilization** and shall include full compensation for all costs incurred by the Contractor for doing all the work involved in mobilization and demobilization as specified herein, and no additional compensation will be allowed. Mobilization shall not exceed 5% of the entire bid (excluding Mobilization) as shown in the Proposal Bid Sheet.

SECTION 8 – FACILITIES FOR AGENCY PERSONNEL

8-6 BASIS OF PAYMENT. [Add the following]

Within fourteen (14) calendar days after receipt of the Notice to Proceed, the Contractor shall submit written statement to the City detailing its field office overhead costs which are time related, if applicable to the Project. The City will review this first cost submittal and reach a written agreement with the Contractor on a daily field office overhead cost rate which shall be memorialized in a no cost change order. The daily rate agreed to in this change order will be applicable throughout the duration of the Contract. No field office costs will be paid until such an agreement is reached between the City and the Contractor and the change order concerning this

daily rate is executed by both parties. Progress payments will be withheld pending receipt of the above-referenced cost submittal and executed change order.

The individual cost components of the daily field office overhead rate shall represent costs which increase as a direct result of any time extension caused solely and exclusively by an act or omission of the City. This listing may include such cost items as on-site project management, supervision, Engineering and clerical salaries; on-site utilities and rent; on-site company vehicles and their operating expenses; and site maintenance and security expenses. Field office overhead costs which are unaffected by increased time shall not be allowable cost in calculating the daily field office overhead rate. These non-time related costs include, but are not limited to, acquisition and installation of stationary equipment; temporary construction facilities; utilities and office furnishings (unless such items are rented or leased); the preparation of the site including clearing, grubbing, grading, fencing, mobilizations and demobilization costs; and the costs of permits, bonds and insurance coverage for the Project.

The individual wage cost components used to calculate the daily field office rate shall be supported by actual employee payroll records, not salary ranges or estimates. Hourly rates for management, supervisory, engineering, and clerical employees shall be based upon 2080 work hours per year and shall not include allowances for holidays, vacations, or sick time.

When applicable, the daily field office overhead rate shall be multiplied by the number of days the Contract is delayed or extended by change order and shall be added to the agreed upon change order cost. The days of delay shall be those caused solely by the acts or omissions of the City and documented by a time impact analysis prepared and submitted by the Contractor. In the event a deductive change order is issued which reduces time under the Contract, the daily field office overhead rate shall be used to calculate the deductive amount. No allowance for overhead costs and no profit allowance shall be added to the extended field office overhead cost.

PART 2 - CONSTRUCTION MATERIALS

SECTION 200 – ROCK MATERIALS

200-2 UNTREATED BASE MATERIALS

Aggergate Base shall be Class II Aggregate Base. Provide submittal.

SECTION 201 – CONCRETE, MORTAR, AND RELATED MATERIALS

201-1 PORTLAND CEMENT CONCRETE.

201-1.1 General. [Add the following]:

The same brand, type and source of cement and aggregate shall be used for all Portland Cement Concrete. Provide submittal.

201-2 REINFORCEMENT FOR CONCRETE.

201-2.2.1 Steel Reinforcement. [Add the following]:

All reinforcing steel shall be Grade 60 unless otherwise shown on Plans. Provide submittal.

SECTION 211 - MATERIAL TESTS

211-1.2 Field Density. [Add the following to this section]:

Field density tests will be made by the Engineer during the course of construction at the expense of the City. If field density tests indicate that any portion of the compacted sub-grade has density lower than specified, the Contractor shall rework that portion until the specified density is obtained. Retest of areas, which have failed compaction, will be performed by the Engineer at the Contractor's expense.

NOTE: SEE TECHNICAL PROVISIONS FOR THE REMAINDER OF MATERIALS

PART 3 - CONSTRUCTION METHODS

SECTION 300 EARTHWORK

300-1 DEMOLITION INCLUDING CLEARING AND GRUBBING

300-1.1 General. [Add the following to this section]:

In addition to the work outlined in Subsection 300-1 of the Standard Specifications, the following items of work are included under Clearing and Grubbing unless otherwise covered by a specific bid item.

1. Mobilization and demobilization.
2. Documentation of existing conditions.
3. Public Convenience and Safety including installation of a temporary 6' tall fence to protect the area of work.
4. Maintain dust control at all times by sweeping; including developing a water supply and furnishing and placing all water required for work done in the contract, including water used for extra work and water used for irrigation purposes.
5. Protection of utilities, trees, fences, walls, and other facilities within the construction zone, except those specifically directed by the Engineer to be removed or relocated.
6. Clearing and removal of debris from site of work.
7. Removal of trees and roots interfering with the work whether specified or shown in the plans.
8. Compliance with Construction and Debris handling requirements as specified herein.
9. Removal of structures, as directed by Engineer to be removed or abandoned.
10. Delay in work necessary to accommodate utility relocations by others.
11. Other items of work as directed in these specifications.

300-1.1.1 Preservation of Property. [Add the following Subsection]:

Prior to start of demolition, the Contractor shall document existing conditions adjoining Project limits to establish preconstruction conditions that might be misconstrued as damage caused by site clearing. Contractor shall use sufficiently detailed photographs and videotape to document existing conditions of any damage. Contractor shall provide photographs and videotape to the Engineer upon request. Payment for this work shall be included in all other items of work and no additional compensation will be allowed.

300-1.1.2 Removal and Disposal of Materials. [Add the following Subsection]:

All materials removed, except for materials indicated to be relocated or salvaged, become the property of the Contractor and shall be hauled to and lawfully disposed of at a site secured by the Contractor. The Contractor will provide the Engineer with a letter indicating the final disposition of

materials hauled away and disposed offsite from the Project within five (5) working days after Project completion. No removed materials shall be left within the Project limits overnight.

Any existing irrigation system interfering with construction of new improvements shall be removed and relocated. Payment for removal and relocation of interfering existing irrigation system will be considered as included in the item of work interfering with the existing irrigation system and no additional compensation will be allowed.

Any curb drain or parkway drain within limits of removal shall be removed and replaced in kind. Payment for removal and reconstruction of curb drain and parkway drain will be considered as included in the item of work removing the adjacent curb or sidewalk and no additional compensation will be allowed.

Prior to the removal of materials, the Contractor shall coordinate with the regional notification center (Underground Service Alert of Southern California) to mark out all existing utilities per Section 402. Contractor shall confirm location and depth of all existing utilities per Section 402 in order to avoid damage to them during removal operations.

300-1.4 Payment. [Add the following]:

Compensation for Demolition including Clearing and Grubbing shall be paid for at the unit price Lump Sum including all labor, materials, supplies, equipment, disposal, tree and root removal, and no additional compensation will be allowed therefor.

SECTION 301 –SUBGRADE PREPARATION, TREATED MATERIALS, AND PLACEMENT OF BASE MATERIALS

301-1 SUBGRADE PREPARATION

301-1.3 Relative Compaction. [Replace the first paragraph with the following]:

The top 12" of all subgrade shall be compacted to 95% relative compaction. Class II Aggregate Base shall be compacted to 95% relative compaction.

301-2.4 Measurement and Payment. Payment for the construction of compacted aggregate base bid item shall be included in the Contract unit price per cubic yard as indicated in the bid schedule, including all labor, materials and equipment, and no additional compensation will be allowed therefore.

SECTION 303 - CONCRETE AND MASONRY CONSTRUCTION

303-5 CONCRETE CURBS, WALKS, GUTTERS, CROSS GUTTERS, ALLEY INTERSECTIONS, ACCESS RAMPS, AND DRIVEWAYS

303-5.1 Requirements.

303-5.1.1 General. [Add the following]:

Saw cuts shall be made at existing joints or cracks or at least 8 feet from an existing joint or crack, and if the saw cut is made at an existing crack, the saw cut shall include the crack within the removal area. Spandrel shall be saw cut a maximum 2 inches from curb face and a minimum 3 inch depth.

The Contractor shall verify with a “smart level” that the ADA required maximum ramp and sidewalk grades are not exceeded both when marking the required saw cut removal limits and when setting the concrete forms, prior to pouring any concrete. It shall be the Contractor’s responsibility to supervise and utilize the proper experienced personnel to ensure that the proper saw cut limits are established. The City shall not be responsible to direct the Contractor’s crews or otherwise serve in this management capacity. The City shall be present to verify the concrete forms, prior to pouring any PCC construction improvements.

All work necessary to construct the improvements shall be confined to City right-of-way. All excavation and forms necessary to construct the improvements shall not disrupt private property. In cases where improvements on private property need to be removed, prior approval from the Engineer or designee shall be obtained, and said improvements shall be replaced to its original condition to the satisfaction of the Engineer or designee. The contractor shall enter into a temporary agreement with the property owner to allow access for construction on private property, subject to City approval. Such agreement shall be provided to the City immediately after signatures are obtained. Costs, if any, for obtaining authorization shall be deemed as included in all other items of work and no additional compensation will be allowed.

Contractor shall ensure that the protection of all existing facilities, structures, and improvements on public and/or private property are maintained throughout the entire Project duration, including, but not limited to, the following: walls, driveways, decorative/colored concrete, stamped concrete, fencing, catch basins, curb and gutter, striping, signs, fire hydrants, landscaping, irrigation, concrete, and asphalt. Any damage to existing public and/or private facilities, structures, utilities, traffic signal loops, and improvements shall be repaired to the satisfaction of the Engineer by the Contractor at no cost to the City.

No open trench (forming strip or pavement digout) shall be left unattended at any time. All trenches shall be backfilled and paved or covered with steel traffic plates at the end of each working day.

303-5.5 Finishing.

303-5.5.4 Gutter. [Add the following to this section]:

When the gutter is constructed, it shall be water tested. If any portion of the newly constructed gutter is shown to pond water, that portion, including curb if applicable, shall be removed, reconstructed and retested by the Contractor at no additional cost to the City. The exact limits of removal will be determined based on a survey conducted by City forces, unless otherwise directed by the Engineer.

303-5.9 Measurement and Payment. [Add the following to this Section]:

Payment for the construction of concrete improvement bid items shall be included in the Contract unit price per square feet as indicated in the bid schedule including all labor, materials and equipment, and no additional compensation will be allowed therefore. The unit price shall include full compensation for all colored and non-colored concrete, spandrel repair, curb and gutter, cast in-place detectable warning surface (truncated domes), saw cutting, existing concrete and asphalt concrete removal and disposal, all related root pruning if any, all related forming, sub-grade preparation, all related adjacent sprinkler system modifications and adjustments, all replacement asphalt concrete pavement as required to provide room for concrete forms, protection of existing parkway drain pipe that outlet through the existing curb face if any, adjustment of all pull boxes (including the adjustment of conduit sweeps and conductors when conflicting) and adjustment of other utility covers to the new grades, if any furnishing all labor, materials, tools, equipment and

incidentals and for completing all work involved as specified herein, and as shown on the Project Plans and referenced standard plans.

SECTION 309 – MONUMENTS

309-1 Description. [Add the following to this section]:

All work shall be performed by a California licensed land surveyor or civil engineer qualified to perform survey work. The work shall consist of searching and locating existing centerline survey monuments; tie existing locations; coordinate removal with City Engineer; reset monuments upon completion of construction; prepare 8 ½" by 11" size tie sheets showing location of monuments and ties; and file with City Engineer. Monuments to be reset shall include all those found along centerline of streets within the Project boundary, all lot corner monuments disturbed by the construction shall be identified and protected or reset as necessary.

309-3 CONSTRUCTION. [Add the following]:

Prior to start of construction, the Contractor shall retain a California Licensed Land Surveyor to inventory all existing survey monuments and ties within the Project limits. The Contractor is responsible for ensuring that all survey monuments and ties are restored. The Contractor shall file a Corner Record Form referencing survey monuments subject to disturbance in the Office of the County Surveyor. A copy of the filing shall be provided to the City prior to commencement of any work. The Contractor shall obtain prior approval from the Engineer before setting new survey monuments and shall do so meeting the standards of the City Engineer and County Surveyor. When a change is made in the finished elevation of the pavement of any roadway in which a permanent survey marker is located, the Contractor shall install a new survey monument to the new grade within seven (7) days of finished paving. The survey monument shall be installed to match the existing type destroyed. The Contractor will then reset ties and file a Corner Record Form in the Office of the County Surveyor.

309-4 PAYMENT [Replace with the following]:

Compensation for protecting, restoring and replacing survey monuments shall be included in the various items of work and no additional compensation will be allowed therefor.

NOTE: SEE TECHNICAL PROVISIONS FOR ADDITIONAL CONSTRUCTION METHODS

PART 4 EXISTING IMPROVEMENTS

SECTION 402 – UTILITIES

402 – 1 LOCATION

402-1.1 General. [Add the following]

The Contractor is advised of the existence of the utility notification service provided by UNDERGROUND SERVICE ALERT (USA). USA member utilities will provide the Contractor with the precise locations of their substructures in the construction area when the Contractor gives at least 48 hours notice to the Underground Service Alert by calling 1(800) 422-4133. Contractor shall provide the City with proof of contact with USA upon request.

The Contractor shall notify the following agencies at least 48 hours in advance of excavating around any of their structures or when implementing traffic control. The utility companies and agencies listed below can be contacted as indicated.

COMPANY
ATT Telephone
Frontier Cable
So CA Edison
So CA Gas
City of Lakewood Water Dept
Golden State Water Company
LA County PW Sewer Maintenance
EDCO Waste and Recycling
Long Beach Transit District
Orange County Transit Authority
Metropolitan Transit Authority
Los Angeles Sheriff's Department

The California Public Utilities Commission mandates that, in the interest of public safety, main line gas valves be maintained in a manner to be readily accessible and in good operating condition.

The Contractor shall exercise extreme care to protect all existing utilities in place whether shown on the plans or not, and shall assume full responsibility for all damage resulting from his operations. The Contractor shall coordinate with each utility company as to the requirements and methods for protection of their facilities during the construction period, and shall be responsible for preparation and processing of any required plans or permits. The Contractor shall assume full responsibility to maintain uninterrupted service for all utilities.

By submitting a bid, the Contractor acknowledges utility work may be done in conjunction with this Project. The Contractor shall schedule his work and conduct his operations so as to permit access and time for the required utility work to be accomplished during the progress of the work.

The Contractor shall coordinate with each utility company as to the extent of required work and the time required to do so. The Contractor shall include this time in his schedule. Payment for the above, if any, shall be deemed as included in the items of work as shown on the Proposal bid sheet and no additional compensation will be allowed.

The existence and locations of utilities shown on the drawings have been determined by a search of the available records as provided by the respective utility owner. The exact locations have not been determined by potholing unless so indicated on the drawings. The Contractor shall determine the exact location of all existing utilities prior to commencing work. **Contractor agrees to be fully responsible for any and all damages which may be caused by his failure to**

exactly locate and preserve any and all underground utilities, whether shown on the plans or not. In the event the Contractor encounters underground utilities not shown on the plans, he shall verify the exact location of the utility and immediately notify the Engineer, regardless of whether the unknown utility conflicts with the proposed construction or not. In the event of such a previously unknown conflict, the Contractor shall immediately notify the Engineer as to the extent, if any, of delays or additional costs resulting from said conflict. The Contractor shall perform work and provide necessary materials to disconnect or relocate existing utilities as indicated. Record on record drawings all existing utility termination points before disconnecting.

When uncharted or incorrectly charted underground piping or other utilities and services are encountered during site work operations, notify the applicable utility company immediately to obtain procedure directions. Cooperate with the applicable utility company in maintaining active services in operation.

In the event the Contractor damages an existing utility line, the Contractor shall restore damaged utilities within three (3) working days.

Pursuant to Government Code Section 4215, if any main or trunkline utility facilities that are not indicated in the drawings, plans or specifications and are determined by Contractor to be located on the site of any construction project that is a subject of the contract, the City shall assume the responsibility for timely removal, relocation, or protection of the existing main or trunkline utility facilities. The Contractor will be compensated for the costs of locating, repairing damage not due to the failure of the Contractor to exercise reasonable care, and removing or relocating such utility facilities not indicated in the plans and specifications with reasonable accuracy, and for equipment on the Project necessarily idled during such work. The Contractor will not be assessed liquidated damages for delay in completion of the Project when such delay was caused by the failure of City or the utility owner to provide for removal or relocation of such utility facilities. Nothing herein shall be deemed to require the City to indicate the presence of existing service laterals or appurtenances whenever the presence of such utilities on the site of the construction Project can be inferred from the presence of other visible facilities, such as buildings, meter and junction boxes, on or adjacent to the site of the construction; provided, however, nothing herein shall relieve the City from identifying main or trunklines in the plans or specifications. Nothing herein shall preclude the City from pursuing any appropriate remedy against the utility for delays which are responsibility of the utility. Nothing herein shall be construed to relieve the utility from any obligation as required either by law or contract to pay the cost of removal or relocation of existing utility facilities. If the Contractor, while performing the contract, discovers utility facilities not identified by the City in the Contract Plans or Specifications, Contractor shall immediately notify the Engineer and utility in writing. The public utility, whether they are the owner, has sole discretion to perform repairs or relocation work or permit the Contractor to do such repairs or relocation work at a reasonable price.

PROJECT SPECIFICATIONS
PLAY AREA IMPROVEMENTS TO THE EXISTING BLOOMFIELD PARK
PUBLIC WORKS PROJECT NO. 24-04
21420 PIONEER BLVD.
LAKEWOOD CA 90715
&

CONTACT PERSON:
SAM CHAMBERS
PROJECT MANAGER
DEPARTMENT OF PUBLIC WORKS
LAKEWOOD CITY HALL
5050 NORTH CLARK AVENUE
LAKEWOOD, CA 90712

ARCHITECT:
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CITY ARCHITECT
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NOVEMBER 11th , 2025

**PLAY AREA IMPROVEMENTS TO THE EXISTING BLOOMFIELD PARK
PUBLIC WORKS PROJECT NO. 24-04
21420 PIONEER BLVD.
LAKEWOOD CA 90715**

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APPENDIX A –PLAY EQUIPMENT SPECIFICATIONS

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SECTION 01010 – SUMMARY OF WORK

Scope:

The work covers park playground replacement improvements to the existing Bloomfield Park in Lakewood, California.

The work generally consists of demolition, grading, concrete foundations, play equipment installation, rubberized surfacing and installation, and miscellaneous related improvements required by the contract documents. Contractor to remove existing play equipment, footings and sand. Contractor to furnish, assemble, and install play equipment, shades and resilient surfacing.

Related Work Specified Elsewhere:

Construction Schedule.

Schedule of Values.

Temporary Facilities and Controls.

Products and Materials.

Documents of this Contract: The plans, the specifications and the Standard Specifications for Public Works Construction, latest edition, (STD. SPECS).

Contractor's Duties:

Except as specifically noted, provide and pay for all labor, materials and equipment, tools, construction equipment and machinery, water and utilities required for construction and other facilities and services necessary for proper execution and completion of the work.

Pay legally required sales, consumer and use taxes.

Secure and pay for, as necessary for proper execution and completion of the work, and as applicable at time of receipt of bid, all permits, fees, and licenses.

Furnish all information, tests, data, calculations or manufacturer's data necessary to obtain such permits.

Arrange and pay for all off-site inspection of the work required by ordinance or governing authorities. The Contractor shall also arrange and pay for other inspections, including tests in connection therewith, as may be assigned to it in other sections of the specifications.

Give Required Notices:

Comply with codes, ordinances, rules, regulations, orders, and other legal requirements of public authorities which bear on performance of work.

Promptly submit written notice to the City of observed variance of Contract Documents from legal requirements. Any necessary changes shall be adjusted by appropriate modification of the Contract Documents by the City.

Contractor shall assume full responsibility and bear all costs attributable to work performed knowingly contrary to such requirements.

Enforce strict discipline and good order among employees. Do not employ on work unfit person or persons not skilled in assigned task. Comply with City's request to remove such persons and do not re-employ on work.

Contracts:

Construct entire work under single prime contract.

Work By Others:

If any part of the Contractor's work depends for proper execution or results upon the work of any other separate contractor, the Contractor shall inspect and promptly report to the City any apparent discrepancies or defects in such work that render it unsuitable for such proper execution and results. Failure of the contractor to so inspect and report shall constitute an acceptance of the other contractor's work as fit and proper to receive its work, except as to defects which may develop in the other separate contractor's work after the execution of the Contractor's work.

Should the Contractor cause damage to the work or property of any separate contractor, the Contractor shall, upon due notice, settle with such other contractor by agreement or arbitration, if it will so settle. If such separate contractor sues the Owner or initiates an arbitration proceeding on account of any damage alleged to have been so sustained, the Owner shall notify the Contractor, who shall defend such proceedings at the Contractor's expense, and if any judgment or award against the Owner arises therefrom, the Contractor shall pay or satisfy it and shall reimburse the Owner for all attorney's fees and court or arbitration costs which the Owner has incurred.

Allotted Working Space:

A reasonable space will be assigned. All materials and equipment shall be kept within this space with no liability to the City.

Acceptance of Site:

The Contractor shall accept the site and the character of the work as they exist on the first day of work under this Contract.

Layout:

The Contractor shall perform and be responsible for the accurate layout of all portions of the work. He shall verify all dimensions on the drawings and shall report to the City any

discrepancies before proceeding with related work. The Contractor shall employ a licensed surveyor to perform this work.

Lines and Levels:

The Contractor shall check base lines and grades as indicated on the Contract Drawings, and establish intermediate lines or grades as required. The Contractor shall employ a licensed surveyor to perform this work.

Clean Up:

The Contractor shall maintain the premises clean of debris at all times.

Not In Contract:

Items shown on the Contract Drawings but marked N.I.C. are not included in this Contract.

Safety:

The Contractor shall be responsible for all specific safety requirements promulgated by any governmental authority, including the requirements of the Occupational Safety and Health Act of 1970 (OSHA) and CAL OSHA.

Weed Control

The Contractor shall control weed growth within the work limits during this construction contract to the satisfaction of the City.

Owner:

The Owner of this project is the City of Lakewood, CA. Throughout these specifications the Owner shall be referred to as either "Owner" or "City."

END OF SECTION.

SECTION 01015 – SPECIAL CONDITIONS

Changes

All changes shall be reviewed and approved by the City before proceeding with Work.

Construction Activity Coordination:

The Contractor is to coordinate through the Owner's representative all construction activity that could have an effect on the Public or Staff or functions of the facility.

The Owner's representative is to be contacted a minimum of one week prior to any utility system shut down in order to ensure proper coordination. It is also the responsibility of the Contractor to arrange for temporary services where required.

The Owner's representative is to be contacted prior to the delivery of any materials or supplies that will impact the on-site vehicular/pedestrian circulation or parking in order that they may provide proper coordination.

END OF SECTION.

SECTION 01020 – RULES OF DOCUMENT INTERPRETATION

PART 1 – GENERAL

General Precedence of Documents Comprising the Contract:

Except as otherwise provided, the precedence of the documents comprising the Contract, in the event of an express conflict, is as follows:

1. Change Orders / Modifications.
2. Addenda.
3. Contract.
4. Special Conditions.
5. Supplementary General Conditions.
6. General Conditions.
7. Drawings.
8. Standard Drawings.
9. Specifications.
10. Standard Specifications.
11. Reference Specifications / Standards / Drawings / Codes.

Drawings:

In the Event of conflict within the drawings, the following rules shall apply:

1. General Notes, when identified as such, shall be incorporated into other portions of Drawings.
2. Schedules, when identified as such, are complementary with other notes and other portions of Drawings including those identified as General Notes.
3. Larger scale drawings shall take precedence over smaller scale drawings. In the event of any discrepancy between any drawing and the figure written thereon, the figure shall govern.
4. Figured, derived, or numerical dimensions shall govern. At no time shall the Contractor base construction on scaled drawings.

Specifications:

Specifications shall govern as to materials, workmanship and installation procedures.

More Stringent and Higher Quality / Quantity:

In the case of disagreement or conflict within standards, specifications, and drawings, the more stringent, higher quality, and greater quantity of Work shall apply.

Authority of the City:

The City, or the City's Designated Representative, has the final authority in all matters affecting the Work. Within the scope of the Contract, the City, or the City's Designated Representative, has the authority to enforce compliance with the Plans and Specifications. The Contractor shall promptly comply with instructions from the City, or the City's Designated Representative. The decision of the City, or the City's Designated Representative, is final and binding on all questions relating to: quantities; acceptability of material, equipment, or work; execution, progress or sequence of work; and interpretation of Specifications or drawings. This shall be precedent to any payment under the Contract, unless otherwise ordered by the City.

END OF SECTION.

SECTION 01070 – CUTTING AND PATCHING

PART 1 – GENERAL

Related Work Specified Elsewhere:

Summary of Work.

Description:

Execute cutting (including excavating), fitting or patching of work required to:

- Make several parts fit properly;
- Uncover work to provide for ill-timed work;
- Remove and replace defective work;
- Remove and replace work not conforming to the Contract Documents;
- Remove samples of installed work as required for testing;
- Install specified work in existing construction;
- Properly join work by others.

In addition to contract requirements, upon written instruction of the City:

- Uncover work to provide for City's observation of covered work;
- Remove samples of installed materials for testing;
- Remove work to provide for alteration of existing work.

Do not endanger any work by cutting or altering work or any part of it.

Submittals:

Prior to cutting which affects structural safety of work or work of another Contractor, submit written notice to the Owner requesting consent to proceed with cutting, including:

- Identification of the work;
- Description of affected work;
- Necessity for cutting;
- Effect on other work, on structural integrity of the project;
- Description of proposed work. Designate:
 - Scope of cutting and patching;
 - Contractor and trades to execute work;
 - Products proposed to be used;
 - Extent of refinishing;
 - Alternatives to cutting and patching;
 - Designation of party responsible for cost of cutting and patching.

Prior to cutting and patching done on instruction of Owner, submit cost estimate. Should conditions of work or schedule indicate change of materials or methods, submit written recommendations to City, including:

Conditions indicating change;
Recommendations for alternative materials or methods;
Submittals as required for substitutions.

Submit written notice to City, designating time work will be uncovered, to provide for observation.

Payment for Costs:

Costs caused by ill-timed or defective work, or work not conforming to Contract Documents, including costs for additional services of the Architect: Contractor.

Work done on instruction of the City, other than defective or non-conforming work: City.

PART 2 – PRODUCTS

Materials for replacement work removed shall comply with specifications for type of work to be done.

PART 3 – EXECUTION

Inspection:

Inspect existing conditions of work, including elements subject to movement of damage during cutting and patching or excavating and backfilling.

After uncovering work inspect conditions affecting installation of new products.

Preparation:

Before cutting, provide shoring, and support as required to maintain structural integrity of project; provide protection for other portions of project; and provide protection from the elements.

Performance:

Execute fitting and adjustment of products to provide finished installation complying with specified tolerances and finishes.

Execute cutting and demolition by methods which will prevent damage to other work and will provide proper surfaces to receive installation of repairs and new work.

Execute excavating and backfilling as specified in the Earthwork and Grading Section.

Restore work which has been cut or removed; install new product to provide completed work conforming to Contract Documents. Refinish entire surfaces as necessary to provide an even finish:

Continuous surfaces – to nearest intersections.
Assembly – entire refinishing.

END OF SECTION.

SECTION 01200 – PROJECT MEETINGS

PART 1 – GENERAL

Related Requirements Specified Elsewhere:

Summary of Work.
Construction Schedules.
Shop Drawings, Project Data and Samples.
Project Record Documents.

Pre-Construction Meeting:

City shall schedule within 15 days after Date of Award.

Attendance: Project Superintendent
 Prime Contractor
 Major Subcontractors
 Architect (sub-consultants at Architect's option)
 Utility Representatives
 Owner's Representatives

Notifications of Meeting:

Minimum notice of seven (7) calendar days is required. City shall notify attendees of the meeting. City shall chair the meeting.

Progress Meetings:

Schedule regular weekly meetings at work site. Hold and chair called meetings as progress of work dictates.

The Contractor and any or all of its subcontractors shall attend these meetings as directed by the City.

END OF SECTION.

SECTION 01310 – CONSTRUCTION SCHEDULE

PART 1 – GENERAL

Related Requirements Specified Elsewhere:

Summary of Work.
Project Meetings.
Products – Individual Sections.

Schedule:

Provide projected construction schedule for entire work.

Form of Schedule:

Horizontal chart with separate horizontal bar column for each trade or operation. Identify each column by distinct delineation. Identify the first workday of each week. Allow space for updating.

Content of Schedule:

Provide complete sequence of construction by activity:

- Shop drawings, project data and samples;
Submittal date and date review copies are required.

- Decision dates;
Product substitutions;
Selections of finishes and colors.

- Product procurement and delivery dates;

- Dates for beginning and completion of each element of construction, including equipment installation dates;

- Testing of equipment or systems.

Provide sub-schedules to define critical portions of entire schedule.

Updating

Show all changes occurring since previous submittal of schedule.

Indicate progress of each activity; show completion dates.

Include major changes in scope, modified activities, revised projections, and other identifiable changes.

Provide description of current and anticipated delay factors and their impact.

Submittals:

Submit initial schedule within 15 days after date of Award. City will review schedule and return review copy within 10 days after receipt. If required, resubmit within 7 days after return of review copy.

Submit updated schedules accurately depicting progress to first day of each month.

Submit 4 copies to the City for review.

Distribution:

Distribute copies of reviewed schedules to job site file, subcontractors and other concerned parties, with instructions to coordinate.

END OF SECTION.

SECTION 01340 – SHOP DRAWINGS, PROJECT DATA AND SAMPLES

PART 1 – GENERAL

Submit:

To the City shop drawings, project data and samples required by specification sections. Shop drawings, project data, or samples are required for all products and materials furnished under this Contract. Substituted product submittals shall conform to requirements of Section 01600.

Related Documents:

Construction Schedules.
Summary of Work.
Project Closeout.
Products and Materials.

Construction Schedule:

Designated dates for submission and dates for reviewed shop drawings, project data, and samples will be needed for each product.

PART 2 – SHOP DRAWINGS

Drawings, prepared by Contractor, subcontractor, supplier or distributor, which illustrate some portion of the work; showing fabrication, layout, setting or erection details.

Furnished at Contractor's expense by Contractor.

Professionally prepared by qualified detailer.

Identify details by reference to sheet and detail numbers on Contract drawings.

Minimum sheet size 8 ½" x 11".

Quantity of Submittal:

Contractor shall submit a minimum of six (6) copies of all required drawings.

PART 3 – PROJECT DATA

Submit Manufacturer's Standard Schematic drawings:

Modify to delete information which does not apply.

Supplement standard information where applicable to the work.

Submit manufacturer's catalog sheets, brochures, diagrams, schedules, performance charts, illustrations and other standard descriptive data:

Clearly mark each copy to identify pertinent information.
Show dimensions and clearances required.
Show performance characteristics and capacities.
Show wiring diagrams and controls.

Quantity of Submittal:

Minimum of six (6) copies.

PART 4 – SAMPLES

Submit physical examples to illustrate materials or workmanship, and to establish standards by which completed work is judged.

Office Samples:

Submit samples of size and quantity to clearly illustrate:

Functional characteristics of product or material, with integrally related parts and attachment devices.

Full range of color samples.

After review, acceptable samples may be used in construction of project.

PART 5 – CONTRACTOR'S RESPONSIBILITIES

Review and stamp shop drawings, project data and samples prior to submission. Contractor shall initial all correct submittals after his review. Submittals will be returned without City's review if it is clear that Contractor has not reviewed and stamped the submission first.

Verify field measurements, field construction criteria, catalog numbers and similar data.

Coordinate each submittal with requirements of work and of contract documents.

The Contractor is the sole responsible party for all errors and omissions or all deviations from contract documents in his or his subcontractor's submittals for this project. The Contractor's responsibility for errors and omissions in submittals is not relieved by City's review of submittals. Changes to the contract documents can only be made by Change Order and are not authorized by any approval of submittals.

The Contractor's responsibility for deviations in submittals from contract documents is not relieved by City's review unless Contractor itemizes specific deviation(s) and City gives written acceptance of specific deviation(s). Contractor must notify City in writing at

time of submission of all deviations in submittals from requirements of contract documents.

Begin no work requiring submittals until return of submittals with City's stamp and signature indicating review.

Distribute copies after City's review.

The initial submission of each product, material, or method to be furnished under this Contract shall be complete and thoroughly prepared in all respects as required by these Specifications. The Contractor shall pay for Architect's or Engineer's fees for reviewing all resubmitted shop drawings. The Architect's or Engineer's fees shall be deducted from monies owed the Contractor by the City and paid to the Architect or Engineer by the City.

PART 6 – SUBMISSION REQUIREMENTS

The Contractor shall complete all submittals in a timely manner. Schedule all submittals not later than 35 days after Award of Contract.

The City will not be responsible for delays to the Contractor for any submittal not received within the specific time.

Contractor's distribution shall be as required, plus three (3) copies for City's retention, or number of samples specified in pertinent section.

Transmittal letter shall be in duplicate, containing date, project title and number, Contractor's name and address, the number of each shop drawing, project data and sample submitted, notification of deviations from Contract Documents, and other pertinent data.

Submittal shall include:

Date and revision date;

Project Title and number;

Name of Owner, Contractor, Subcontractor, Supplier, Manufacturer, separate detailer, where pertinent;

Identification of material;

Relation to adjacent structure or materials;

Field dimensions, clearly identified;

Specification section number;

Applicable standards, such as ASTM # or Federal Specification;

Space for City's stamp.

Identification of deviations from Contract Documents;

Contractor's stamp or preprinted statement, initialed or signed, certifying thorough review of submittal, verification of field measurements and compliance with Contract Documents.

PART 7 – RESUBMISSION

All resubmissions shall be complete, thorough submissions meeting all requirements and containing all required components of the initial submittal.

Shop Drawings:

Revise initial drawings as required and resubmit as specified for initial submittal.

Indicate on drawings any changes which have been made other than those requested by City.

Pay for Architect's or Engineer's fees for reviewing all resubmitted shop drawings.

Project Data and Samples:

Submit new datum and samples as required for initial submittal.

Pay for Architect's or Engineer's fees for reviewing all resubmitted project data or samples.

PART 8 – DISTRIBUTION AFTER REVIEW

Distribute stamped copies of shop drawings and project data to:

- Contractor's file;
- Job site file;
- Record Documents file;
- Subcontractor;
- Supplier;
- Fabricator.

Samples:

Distribute as directed.

END OF SECTION.

SECTION 01370 – SCHEDULE OF VALUES

PART 1 – GENERAL

Related Requirements:

Project meetings.
Construction schedule.

Submit to City:

Schedule of Values, within 15 days of date of contract. Upon City's request, furnish support values given with substantiating data. Furnish quantities of designated materials.

Schedule of Values:

Used as a basis for Progress Payments, Change Orders, or extra work.

PART 2 – FORM OF SUBMITTAL

Neatly prepared on 8 ½" x 11" white bond paper.

Use Table of Contents of this Specification for format for listing costs of work for Sections under Division 02000 through 16000. Also include all items controlled by notes on the plans and not included in the specifications.

Identify each line item with number and title.

PART 3 – PREPARING SCHEDULE OF VALUES

Itemize separate line item cost for work required by each section of this specification. List separately line items for site and shelter construction; rough-in and finish work; etc.

Indicate total installed cost, with overhead and profit.

Round off figures to nearest dollar.

Make sum of total costs of all items listed in schedule equal to total Contract sum.

PART 4 – REVIEW AND RESUBMITTAL

After review by City, revise and resubmit schedule of values as required.

END OF SECTION.

SECTION 01410 - TESTING

PART 1 - GENERAL

Related Requirements:

Inspections and testing required by laws, ordinances, rules, regulations or order of public authorities: General Conditions.

Certification of products: Respective specification sections.

Test, adjust and balance of equipment: Respective specification sections.

Cutting and patching.

Project closeout.

Soils testing.

Tests and standards: Pertinent sections.

Independent Testing Laboratory:

City will employ and pay for services of an Independent Testing Laboratory to perform soil, concrete, asphalt, and related testing services. Contractor shall coordinate. Retesting required due to failure shall be at the Contractor's expense.

Contractor will employ, coordinate, and pay for services of an Independent Testing Laboratory, approved by the City, to perform other testing services required by the specifications.

Employment of Testing Laboratory will in no way relieve Contractor of its obligation to perform work in accord with contract.

PART 2 – LABORATORY DUTIES; LIMITATIONS OF AUTHORITY

Cooperate with City and Contractor; provide qualified personnel promptly on notice.

Perform specified inspections, sampling and testing of materials and methods of construction. Comply with specified standards. Ascertain compliance with requirements of the Contract Documents.

Notify City and Contractor promptly of irregularities or deficiencies of work observed during performance of services.

Submit promptly five (5) copies of reports of inspections and tests to City for further distribution.

Perform additional services as required by City.

No authority to release, revoke, alter or enlarge on requirements of Contract Documents: approve or accept any portion of the work; perform any duties of the Contractor.

PART 3 – CONTRACTOR’S RESPONSIBILITIES

Cooperate with Laboratory personnel, provide access to work, arrange access to manufacturer’s operations.

Provide Laboratory preliminary representative samples of materials to be tested, in required quantities.

Furnish copies of mill test reports. Furnish casual labor and facilities for access to work to be tested; to obtain and handle samples at the site; to facilitate inspections and tests; for Laboratory’s exclusive use for storage and curing of test samples.

Notify Laboratory sufficiently in advance of operations to allow for its assignment of personnel and scheduling of tests.

Arrange with Laboratory and pay for additional inspections, sampling, and testing required for the Contractor’s convenience and when initial tests indicate work does not comply with Contract Documents.

Coordinate requests for services by City-employed testing laboratory through City.

END OF SECTION.

SECTION 01420 – INSPECTION OF WORK

PART 1 – GENERAL

Inspection:

The City will inspect and approve all installations and operations. All submittals to and communication between the City and the Contractor related to the work of this Contract shall be directed to the City's Contract Administrator.

Notice:

The Contractor shall give the City a minimum of forty-eight (48) hours notice prior to work inspections requested or required by other Divisions.

The work shall be ready for inspection at the scheduled times arranged by the Contractor. If, in the City's sole judgment, the work is not ready and the inspection must be rescheduled, (1) the Contractor shall be notified and shall reschedule the inspection; (2) the Contractor shall provide forty-eight (48) hours notice of the rescheduled inspection; and (3) the Contractor shall reimburse the City for the additional time required by the City or City's consultants at the City's actual hourly costs.

In order to allow for inspection, the Contractor shall notify the responsible agency sufficiently in advance of the permanent concealment of any materials or work. The following list is typical of such required inspection:

1. Foundation material, footing and slab beds;
2. Reinforcing for concrete;
3. Contact surface of concrete forms;
4. Concrete surfaces such as bearing seats, construction joints;
5. Piping and conduit;
6. Finish grade prior to seeding or planting.

If any work is concealed or performed without the prior notice specified above, then the work shall be subject to such tests or exposure as may be necessary to prove to the City that the materials used and the work done are in conformity with the plans and specifications. All labor and equipment necessary to prove to the City that the materials used and the work done are in conformity with the plans and specifications; all labor and equipment necessary for exposing and testing shall be furnished by the Contractor, at his expense. The Contractor shall replace, at his own expense, any materials or work damaged by exposure or testing.

To comply with the intent of the specifications, review should be made at the plant or mill of the manufacturer or fabricator of material unless otherwise specified. When such

plant or mill is within the limits of the City in which the work is being performed, the Contractor shall notify the City or responsible agency sufficiently in advance to allow for inspection arrangements to be made.

When such plant or mill is outside the limits of the City in which the work is being performed, the Contractor, at his own expense, unless the City elects to make its own inspection, shall engage an Agent approved by the City to review the materials at said mill or plant. The Contractor's Inspector shall be governed in his judgement of the materials by the requirements of the specifications and shall forward to the City whatever written reports are required by the City.

The Contractor shall make arrangements as necessary for all required inspections by the City. Any inspection or approval by any representative or agent of the City will not relieve the Contractor of the responsibility of incorporating in the work only those materials which conform to the specifications, and any non-conforming materials shall be removed from the project whenever identified.

Final Inspection:

Upon the completion of the work, the Contractor shall notify the City, in writing, seven (7) calendar days in advance of when he desires a final inspection of the work. City will make such inspection as soon thereafter as possible.

Defective Work:

No work which is defective in its construction or deficient in any of the requirements of the specifications shall be considered as accepted. The Contractor shall correct any imperfect work whenever discovered, before the final acceptance of the work.

Inspection Overtime:

The Contractor shall compensate the City, either upon receipt of a bill therefore or by deduction from the final amount due the Contractor, for all hours worked by authorized City employees or Consultants on Saturdays, Sundays or legal holidays at two (2) times the employee's or Consultant's basic rate of pay, plus current rate for overhead.

END OF SECTION.

SECTION 01500 – TEMPORARY FACILITIES AND CONTROLS

PART 1 – GENERAL

The Contractor shall be responsible for all specific safety requirements promulgated by any governmental authority, including the requirements of the Occupational Safety and Health Act of 1970 (OSHA) and CAL OSHA.

PART 2 – TEMPORARY UTILITIES

Light, Power and Water:

Furnish temporary water, light, and power, complete with connecting piping, wiring, lamps, meters and similar equipment as required for the work. Install, maintain, and remove temporary lines upon completion of the work. All expenses in connection with temporary services and facilities shall be paid by the Contractor.

Temporary Telephone:

Provide at own expense a cellular telephone for use of Contractor and subcontractors.

PART 3 – ACCESS AND FACILITIES

Access:

Provide and maintain an adequate access to the site of the project. Also provide temporary roads if any are required for prosecution of the work.

Temporary Office:

A temporary office is not required.

Temporary Toilets:

Install and maintain in a sanitary condition suitable toilets for the use of workmen. Toilets shall be in a location approved by the City and connected to existing sewers when feasible, or may be of the chemical type. There shall be a minimum of one (1) toilet for each multiple of twenty (20) Contractor's employees or fractional part thereof working at the job site.

Storage Sheds:

Provide and maintain on the premises, where directed, watertight storage sheds for all materials which might be damaged by weather, including storage facilities for concrete test samples or other material samples required for the work. Location(s) shall be determined at the preconstruction meeting.

PART 4 – TEMPORARY SIGNBOARDS

Temporary Sign Boards:

Temporary sign boards are not required.

PART 5 – FIRE PROTECTION

Provide general temporary fire protection for the work under this contract.

PART 6 – TRASH REMOVAL AND CLEANING

Coordinate and provide trash containers for collecting debris. Remove debris from job site at regular intervals.

PART 7 – WEED CONTROL

Keep areas of construction free and clear of excessive weed growth to the satisfaction of the City.

END OF SECTION.

SECTION 01600 – PRODUCTS AND MATERIALS

PART 1 – GENERAL

Work Included:

Transportation and Storage.
Products List.
“Or equal” and reference to trade names.
Contractor’s options.
Substitutions.

Related Requirements Specified Elsewhere:

Schedule of Values.
Shop Drawings, Project Data and Samples.
Testing.
Inspection.

PART 2 – HANDLING

Transportation and Storage:

Products or materials to be incorporated in the work shall be transported, handled and stored in such a manner as to assure the preservation of their quality and fitness for the work and to facilitate inspection.

PART 3 – PRODUCTS LIST

Within 35 days after date of contract, submit to City six (6) copies of complete list of all products which are proposed for installation.

Tabulate list by each specification section. For products noted on plans or specified under reference standards include with listing of each product:

1. Name and address of manufacturer;
2. Trade name;
3. Model or catalog designation;
4. Manufacturer’s data
 - a. Performance and test data;
 - b. Reference Standards.

PART 4 – “OR EQUAL” AND REFERENCE TO TRADE NAMES

Whenever in the specifications any material or process is indicated or specified by patent or proprietary name or by name of manufacturer, such specifications shall be deemed to be used for the purpose of facilitating description of the material or process

desired and shall be deemed to be followed by the words “or equivalent,” as approved by the City.

However, if the material, process or article offered by the Contractor is not, in the opinion of the City, equal to that specified, then the Contractor must furnish the material, process or article specified, or one which in the opinion of the City is the equal thereof in all essential characteristics.

If the City shall decide to accept for use in the project a material which is not the equal of that specified, authority for the substitution shall be made in the manner described for “Extra Work and Changes,” with appropriate monetary allowance for the difference in value.

PART 5 – CONTRACTOR’S OPTIONS

For products specified only by reference standards, select any product meeting standards by any manufacturer.

For products specified by naming several products or manufacturers, but specification is written around a single product, select any product and manufacturer named. If Contractor’s selection is other than the single described product, Contractor must submit a written request to City, as required for substitution.

For products specified by naming one or more products, but indicating option of selecting equivalent product stating “or approved equal” after specified product, Contractor must submit a written request to the City, as required for substitution, for any product not specifically named.

PART 6 – SUBSTITUTIONS

General:

The Contractor may offer any material or process which it believes to be equal in all essential characteristics to that so indicated or specified; and it shall be incumbent upon the Contractor to furnish sufficient evidence to the City to support the Contractor’s claim of equality. Said offer, supporting evidence, and City’s approval process must be completed within thirty-five (35) days after the award of the contract or Contractor will be deemed to have waived its right to offer substitute materials or processes. The Contractor shall pay for Architect’s Engineer’s fee for reviewing all requests or submission of substituted products, materials, or methods requested for use in the performance of the Work. In the event independent testing must be completed in order to determine equivalency of the substituted material or process as compared to the specified material or process, the Contractor shall pay all fees associated with the independent testing laboratory. The selection of the independent testing laboratory is at the sole discretion of the City.

Submittal:

Submit six (6) copies of request for substitution. Include in request:

Complete data substantiating compliance of proposed substitution with Contract Documents.

For Products:

Submit product identification, including manufacturer's name and address.

Manufacturer's Literature:

Submit product description;
Submit performance and test data;
Submit reference standards;
Submit samples.

For Construction Methods:

Submit detailed description of proposed method;
Submit drawings thoroughly illustrating methods.

Provide name and address of similar projects on which product to be substituted was used, and date of installation.

Provide itemized comparison of proposed substitution with product or method specified. Submittal shall be in the form of an easy-to-read comparison chart. Include data relating to changes in construction schedule.

Provide information on relationship to separate contracts.

Provide accurate cost data on proposed substitution in comparison with product or method specified.

Contractor Warrants:

It will assume all risks and liability for the use or installation of the substitution, and will hold harmless the City and Architect for all claims resulting from the use or installation of the substitution. This Hold Harmless Clause must accompany each substitution request and be signed by an authorized agent of the Contractor.

It has personally investigated proposed product or method, and determined that it is equal or superior in all respects to that specified.

It will provide the same guarantee for substitution as for product or method specified.

It will coordinate installation of accepted substitution into work making such changes as may be required for work to be complete in all respects.

It waives all claims for additional costs related to the substitution which may consequently become apparent.

Cost data is complete and includes all related costs under its contract, but excludes:

- Costs under separate contracts;
- Architect's redesign.

Limitations:

Substitutions will not be considered if:

- They are indicated or implied on shop drawings or project data submittals without formal request and approval within 35 days of award.

- Acceptance will require substantial revision of Contract Documents.

- Substitution request is a second request for the same product or material after rejection of first substitution request. Contractor shall only be permitted one substitution request per specified product or material. If the initial substitution request is not approved, Contractor shall submit the specified product or material unless directed otherwise by the City.

Material delivery schedules or the Contractor's failure to make timely submissions will not be considered justification for any substitution.

END OF SECTION.

SECTION 01700 – PROJECT CLOSEOUT

PART 1 – NOTICE

At least seven (7) working days notice shall be required for final inspection; such notice shall be given to the City.

PART 2 – REMOVAL OF PLANT AND CLEAN-UP

Upon completion of the work, the Contractor shall remove all its plant, tools, materials and other articles from the property of the City. Should it fail to take prompt action to this end, the City, at its option and without waiver of such other rights as it may have, may on seven (7) days notice treat them as abandoned property. The Contractor shall also sweep all floors broom clean, clean all exterior work and windows and remove all rubbish from the property of the City.

PART 3 – DAMAGE

Damage to existing utilities, trees, pavements or other property caused by the Contractor shall be restored to original condition at the Contractor's expense, prior to final inspection.

PART 4 – GUARANTEES

All guarantees required by the following Divisions of these Specifications shall be presented in writing to the City prior to final acceptance of the work and shall be in addition to the requirements set forth in the General Conditions.

PART 5 – RECORD DOCUMENTS

Submit to the City, prior to final acceptance, all marked-up as-built plans for Architect's review prior to Contractor's preparation of "record" drawings as required by the other Divisions of these Contract Documents.

END OF SECTION.

SECTION 01720 – PROJECT RECORD DOCUMENTS

PART 1 – GENERAL

Related Requirements Specified Elsewhere:

Project Meetings.
Construction Schedules.
Shop Drawings, Project Data, and Samples.
Products and Materials.
Project Closeout.

PART 2 – MAINTENANCE OF DOCUMENTS

Maintain at job site, one copy of:

Contract drawings.
Specifications.
Addenda.
Reviewed shop drawings.
Change Orders.
Other modifications to contract.
Field test records.
Construction schedules.
As-built drawings.

Storage:

In temporary field office, apart from documents used for construction, in files and racks.

Maintain documents in clean, dry, legible condition.

Use and Availability:

Not for construction purposes.

Available at all times for inspection by City.

PART 3 – RECORDING

General:

Provide red ballpoint pen for all marking.

City will furnish the Contractor with one set of prints of Contract Drawings for the use of the Contractor as Record Drawings. The Contractor shall clearly mark on this set as specified.

Label each document "PROJECT RECORD" in large printed letters.

Keep record documents current. These drawings shall be up to date and so certified by the Project Inspector at each progress payment request submittal.

Do not permanently conceal any work until required information has been recorded.

Marking:

Contract Drawings: Legibly mark to record actual construction:

1. Depths of various elements of foundation in relation to slab or site elevations.
2. Horizontal and vertical location of underground utilities and appurtenances referenced to permanent surface improvements.
3. Location of internal utilities and appurtenances concealed in construction referenced to visible and accessible features of structure.
4. Field changes of dimension and detail.
5. Changes made by Change Order or Field Order.
6. Details not on original contract drawings.

Specifications and Addenda: Legibly mark up each section to record:

1. Manufacturer, trade name, catalog number and installer of each product and item of equipment actually installed.
2. Changes made by Change Order or Field order.
3. Other matters not originally specified.

Shop Drawings: Maintain as record documents; legibly annotate following drawings to record changes made after review.

PART 4 – SUBMITTAL

At completion of project, deliver record documents to the City for review.

Accompany submittal with transmittal letter, in duplicate, containing:

1. Date
2. Project title and number.
3. Contractor's name and address.

4. Title and number of each record document.
5. Certification that each document as submitted is complete and accurate.
6. Signature of Contractor, or his authorized representative.

Contractor shall correct all deficiencies, obtain required approvals, and deliver all approved Record Documents to the City.

PART 5 – “AS- BUILT” DRAWINGS

City will furnish the Contractor with one set of prints of the Contract Drawings for the use of the Contractors as “as-built” drawings. The Contractor shall clearly mark on each set as specified above. All information marked on the Record Documents shall be clearly and neatly shown on the prints. All information shall be recorded on the prints by a professional draftsperson and the set shall be clearly marked “as-built.” Submit to City. City must approve “as-built” drawings prior to release of final payment.

END OF SECTION

SECTION 02060 - DEMOLITION

PART 1 – GENERAL

Related Documents:

Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

See Appendix A of these Specifications for Technical Specifications for Removal of Lead Based Paint.

Summary:

This Section requires removal and disposal, off-site, of the following:

Structures, play equipment, and other items indicated on drawings. All items required to properly install all new improvements.

Submittals:

General: Submit the following in accordance with Conditions of Contract and Division 1 Specification Sections.

Proposed schedule of operations coordination for shut-off, capping, and continuation of utility services as required.

Provide a detailed sequence of demolition and removal work.

Photographs of existing areas adjacent to building improvements and site improvements.

Condition of Structures: City assumes no responsibility for actual condition of items to be demolished.

Conditions existing at time of inspection for bidding purpose will be maintained by City insofar as practicable.

Salvaged Materials: Items of salvable value to Contractor may be removed from structure as work progresses. Transport salvaged items from site as they are removed. Storage or sale of removed items will not be permitted on site.

Explosives: Use of explosives will not be permitted.

Traffic: Conduct demolition operations and removal of debris to ensure minimum interference with roads, streets, walks, and other adjacent occupied and used facilities. Do not close or obstruct streets, walks, or other occupied or used facilities without permission from the City.

Protections: Ensure safe passage of persons around area of demolition. Protect all existing items to remain.

Damages: Promptly repair damages caused to adjacent areas by demolition operations.

Utility Services: Maintain existing utility systems intended to stay in service and protect against damage during demolition operations. Coordinate shut-off of all utilities required to be shut off during construction with the City.

PART 2 – EXECUTION

Demolition:

Pollution controls: Use suitable methods to limit dust and dirt rising and scattering in air. Provide control and protection of storm water run-off from site. Comply with governing regulations pertaining to environmental protection. Clean adjacent areas of dust, dirt, and debris caused by demolition operations. Return adjacent areas to condition existing prior to start of work.

Demolition of Miscellaneous Structures:

Proceed with demolition in systematic manner, from top of structure to ground.

Remove structural framing members and lower to ground by safe, suitable methods.

Demolish concrete and masonry in small sections.

Break up and remove concrete slabs-on-grade or A .C. paving where shown on drawings.

Salvaged Materials:

General: Remove carefully to avoid damages. Materials for reuse on this project are to be incorporated into new work as indicated.

Except for items indicated to be retained as City's property, other removed and salvaged materials not indicated for reuse shall become Contractor's property and removed from site with further disposition at Contractor's option.

Disposal of Demolished Materials:

General: Remove weekly from site: accumulated debris, rubbish, and other materials resulting from demolition operations.

Burning of combustible materials from demolished structures will not be permitted on-site.

Removal: Transport materials removed from demolished structures or site demolition and legally dispose off-site.

END OF SECTION.

SECTION 02100 - SITE CLEARING AND REMOVALS

PART 1 - GENERAL

The provisions of the STD. SPECS., Section 300, apply except as modified herein.

Scope:

Clearing and grubbing of the sites of work.

Removal and disposal of all deleterious materials.

Removal of existing concrete items as indicated on drawings.

Furnishing, developing, applying and providing watering equipment for the entire project.

Removal and disposal of any additional items not specifically mentioned herein which may be found within the work limits.

Related Work Specified Elsewhere:

Earthwork and Grading.

Responsibility and Coordination:

Contractor shall secure and maintain all required permits and licenses, and pay all fees necessary to legally complete the work of this Section.

Contractor shall notify utility companies for all utilities to be cut off, modified or relocated, and shall maintain and protect all active utilities.

Protection and Safety:

Contractor shall provide signs in necessary places to exclude persons except those connected with the work from entering the working area. Contractor is responsible for preventing unauthorized persons from entering working area.

Protect the project site and adjacent properties from dirty water, mud and water accumulated due to Contractor's operations, rainfall runoff or water that enters the project site from any other source.

Salvage Materials:

All salvage material remaining on the site after official notification of vacation by the City shall be property of the Contractor, except as noted on the plans and herein.

PART 2 - EXECUTION

General Removal Work:

Removal work shall be carefully done to avoid damage to existing facilities to remain.

Site Clearance and Disposal:

Clear the sites to be improved of grass, trees (including rootball), shrubs, stumps, weed growth, old masonry, rubbish and debris, and existing concrete pavement, concrete piers, slabs, etc., that are to be removed for construction of the improvements shown on the construction plans. Roots three inches in diameter and larger, rocks and broken masonry larger than four inches in the greatest dimension, and abandoned utility lines shall be entirely removed at structures and removed to a minimum depth of 12" below finished grade at remaining site areas.

All deleterious materials, concrete, soils and miscellaneous items shall be disposed of off the site by the Contractor, who shall make all necessary arrangements and pay all related costs.

Notify City of all miscellaneous existing underground facilities, drainage devices, secondary water lines, cables, abandoned oil and water lines, leaching fields, irrigation pipes, wiring, etc., located 12 inches or more below finish grade that are not shown on the drawings. Miscellaneous inactive lines within 12 inches of finish grade that are uncovered during the construction operations shall be removed to construction area limits and the remaining end capped.

Utilities:

Inactive or abandoned utilities shall be disconnected, removed, and plugged or capped subject to the local governing ordinances.

Should the Contractor encounter any existing underground utilities not shown on the drawings, he shall at once notify the City who will determine further procedure.

Debris Burning:

Burning of debris will not be permitted.

END OF SECTION

SECTION 02200 - EARTHWORK AND GRADING

PART 1 - GENERAL

The provisions of STD. SPECS., Section 300 and 301, apply, except as modified herein.

Scope of Work:

Finish grading of the improvement areas;

Excavation and backfill for all footings, structures, etc.;

Furnishing and installing base materials, where required;

Soil compaction, as required;

Protective measures;

Dust and noise abatement;

Soils preparation under structures and hardscape;

Obtaining construction water.

Related Work Specified Elsewhere:

Removal and demolition work.

Excavation and backfill for any electrical work;

Fine finish grading in landscape restoration areas;

Testing:

The Soils Engineer selected by the City shall be present at the site during the earthwork activities relating to stripping, excavation, backfill and compaction, and filling of the site.

The Soils Engineer shall submit a compaction report to the City, certifying the Contractor's compliance with the soils report, plans, specifications, and "Greenbook" in placing all fills and backfills. The Soils Engineer shall conduct all specified tests to insure compliance.

Soils Engineer shall also test, identify and make recommendations on other site and imported fill materials as specified in this Section.

Number and location of soils tests to be as specified by the City's Grading Inspector.

The cost of services of the Soils Engineer, specified field density and maximum density tests, compaction reports and certificates of compliance, shall be borne by the City. All costs of additional testing required to assure compliance, including retesting, shall be borne by the Contractor.

Import/Export Operations:

The Contractor shall provide complete grading operations as shown on the plans. The Contractor is responsible for its own estimates of earth movement and soils quantities in determining its bid for this project. The bid shall include all required soils export or soils import per Greenbook requirements. All export soils shall be removed and transported to an approved disposal site.

Water:

Contractor shall make arrangements with the local water company to obtain potable construction water, or arrange for an alternative source(s) if/when local water conservation measures are implemented. Contractor shall be responsible for all costs involved for providing water to the site, including the cost of the water itself. See also the General Provisions of these Specifications.

PART 2 - EXECUTION

Rough Grading

Provide grading as shown on the plans in accordance with requirements of the STD. SPECS.

Subgrade Preparation:

Subgrade preparation for concrete slabs, curbs, walks and gutter shall conform to the requirements of Section 301 of the STD. SPECS.

Finish Grading:

Finish grades shall slope to drain without water pockets or irregularities and shall conform to the intent of all plans after thorough settlement and compaction of the soil. Finish grades shall meet all existing or established controls of sidewalks, curbs and walls and shall be of uniform slope and grade between points of fixed elevations or elevation controls and from such points to established grades. Tolerance for finish grading is 1/4 inch, plus or minus.

Fill:

Fill shall be placed in level layers mechanically compacted using optimum amount of moisture.

Engineered Fill Under Structures and All Paved Areas:

After the building or structure areas and paved areas are stripped and cleared, they shall be prepared as specified in the Soils Report.

Excavation:

The Contractor shall make all necessary excavation for footings and slabs and do any additional excavation necessary to provide ample room for installation of concrete forms where required.

Footings may be poured against undisturbed soil, except where caving occurs.

Bottom of excavations shall be level, free from loose materials and brought to the indicated or required levels. All excavations shall be kept free from standing water. The Contractor shall do all pumping or draining that may be necessary in carrying on the work. Should excavations for footings, through error, be excavated to a greater depth or size than indicated or required, such additional depth or size shall be filled with concrete, as specified for footings, at the Contractor's expense.

Miscellaneous Grading:

Contractor shall perform miscellaneous grading associated with the work and in finishing adjacent properties to join the improvements.

Backfilling:

After the foundations and walls have been placed, forms removed, and concrete or masonry work approved, the excavation shall be backfilled with earth to the required grade.

Select site material shall be used for backfill and shall be free from large stones and clods. Material shall be approved by the Soils Engineer.

Backfill shall be deposited in layers of 6" thickness.

Layers of backfill shall be moistened with water, the amount to be rigidly controlled to insure optimum moisture conditions for the type of fill material used. Excess water causing saturated earth beneath footings will not be permitted.

Backfill shall be compacted by suitable means to 90% maximum dry density unless required otherwise by the Soils Engineer.

All trenches for other work shall be backfilled in accordance with this Section, and may be tested at the discretion of the City.

Protective Measures:

All excavations shall be protected and guarded against danger of life, limb, and property.

Existing improvements and trees within Contract Limits or areas of activity shall be properly protected.

Dust and Noise Abatement:

During the entire period of construction site areas shall be kept sprinkled as necessary to reduce dust in the air and annoyance to surrounding properties. Exercise all reasonable means to abate noise.

PART 3 – QUALITY CONTROL

Survey:

Horizontal and vertical control points: Contractor, from reference points shown on the drawings.

Layout, lines and levels, staking or work: Professional Civil Engineer or licensed surveyor registered in the State of California, employed by the Contractor.

Contractor shall verify all dimensions on the drawings and shall report to the City any discrepancies before proceeding with related work. Contractor shall perform all survey and layout work.

Section 2-9, "Surveying" of the Standard Specifications is hereby modified such that construction stakes shall be set and stationed by the Contractor at his expense. Surveying costs shall be included in price of items bid. No separate payment will be made.

All work under this contract shall be built in accordance with the lines and grades shown on the plans. Field survey for establishing these, and for the control of construction, shall be the responsibility of the Contractor. All such surveys, including construction staking, shall be under the supervision of a California-licensed Land Surveyor or Civil Engineer. Staking shall be performed on all items ordinarily requiring grade and alignment, at intervals normally accepted by the agencies and trades involved. The Contractor shall provide a copy of the office calculations and grade sheets to the City. It

is also the responsibility of the Contractor to secure requisite survey information for the completion of "as-built" plans. Unless a separate bid item is provided, the payment for surveying, construction staking, professional services, office calculations, furnishing all labor, materials, equipment, tools and incidentals, and for doing all work involved shall be considered as included in the various items of work, and no additional compensation will be allowed. Re-staking and replacement of construction survey markers damaged as a result of the work, vandalism, or accident shall be the at the Contractor's expense.

Survey monuments, ties, and bench mark preservation and replacement are the responsibility of the Contractor. If necessary, replacement of a survey monument shall be done by a Licensed Land Surveyor or a Registered Civil Engineer.

Testing:

All soils and aggregate testing shall conform to the requirements of the Standard Specifications.

Miscellaneous Grading Operations:

Any corrections to the grading work required to bring it into conformance with the intent of the plans and specifications shall be performed by Contractor at no additional cost to the City.

Conflicts:

In the event of conflict between this Specification Section, the Drainage Plan, and the Standard Specifications, the document highest in precedence shall control. The precedence shall be (highest to lowest):

- Specification Section 02200.
- The Plans.
- Standard Specifications.

END OF SECTION.

SECTION 02710 - CHAIN LINK FENCING

PART 1 - GENERAL

Work Included:

Furnish and install 6' high temporary C.L.F. around each area of construction.
Fencing to remain in place throughout construction of improvements.

PART 2 - MATERIALS

All materials shall conform to the requirements of STD. SPECS., Section 206-6, except as herein modified.

Unless noted otherwise on the plans, chain link fabric shall be 1" mesh, 9- gauge, knuckled selvage top and bottom, widths in full height of fence up to 10' in height.

Posts, rails, bracings and footings shall be sized as noted on drawings.

All fittings shall be heavy duty.

Temporary 6' C.L.F. shall be as approved by the City.

PART 3 - EXECUTION

Installation shall conform to the requirements of STD. SPECS., Section 304- 3, and the drawings.

All play area fencing fabric shall be installed on the side facing away from the play area.

Temporary fencing shall be installed around all areas of site improvements unless authorized otherwise in writing by the City. Coordinate location and layout with City prior to installation.

END OF SECTION.

SECTION 02760 – SITE FURNISHINGS

PART 1 – GENERAL

Scope of Work:

Assembly and installation of benches, picnic tables, BBQ's and trash receptacles, and similar site furniture.

PART 2 – PRODUCTS

Site furniture products are as listed on the drawings. Quantities shall be determined by a count of the items as shown on the drawings. Site furniture shall be paid for and furnished by the City, and assembled and installed by the Contractor.

PART 3 – INSTALLATION

Installation shall be in the locations shown on the drawings after approval of precise location by the City. Assemble and install according to manufacturer's written instructions or according to approved shop drawings furnished by the City.

Any item surface mounted to a concrete slab shall be mounted using epoxy cement or minimum 3/8" dia. X 3" long lag screws in expansion shields unless shown otherwise on the plans.

END OF SECTION.

SECTION 02791 – RUBBERIZED SURFACING FOR PLAYGROUNDS

PART 1 – GENERAL

Rubber Playground Surfacing

- 1.1 Section includes: Resilient playground surfacing poured-in-place system.
- 1.2 Related Work: Playground equipment and resilient playground surfacing sub base.
- 1.3 Description: Provide all necessary materials, labor, tools, and equipment to perform the work included in the section for the installation of the poured-in-place resilient playground surfacing.
- 1.4 Quality Assurance: Manufacturer shall have manufactured and installed playground poured-in-place surfacing systems for a minimum of 10 years and meet current ASTM F-1292-09 Test Criteria and CPSC Publication 325. Manufacturer must be BABAA certified - Build America Buy America Act. All raw materials & components must be manufactured in the USA.
- 1.5 The installation of the poured-in-place product shall be completed by Manufacturer Certified Contractors or by direct employees of the Manufacturer's Installation Division. Manufacturer's detailed installation procedures shall be submitted to the Architect and made a part of the Bid Specifications.

PART 2 – SUBMITTALS

- 2.1 Manufacturer's Product Literature and Specification Data.
- 2.21 ASTM F1292-09 Impact Attenuation Test Certification for the poured-in-place System to be installed in compliance with the Critical Fall Height as determined by the Playground Equipment to be installed in conjunction with the poured-in-place surfacing system.
- 2.22 ASTM C518 Thermal Resistance
- 2.23 ASTM C1028 Dry Static Coefficient of Friction test
- 2.24 ASTM C1371-04a Determination of Emittance of materials
- 2.25 ASTM C1549-04 Solar Reflectance Index near Ambient Temperatures test
- 2.26 ASTM D395 Compression set
- 2.27 ASTM D412 Tensile Strength and Elongation
- 2.28 ASTM D624 Tear Strength
- 2.29 ASTM D2047 Static Coefficient of friction

- 2.30 ASTM D2895 Flammability Test
- 2.31 ASTM D3389 Taber Abrasion test
- 2.32 ASTM E108 Class “A” Fire Resistance
- 2.33 ASTM E303-93 (2008) Skid resistance
- 2.34 ASTM E1980-01 Solar Reflective / Low Slope opaque
- 2.35 ASTM F1292 Head Impact Attenuation
- 2.36 ASTM F1292 Head Impact Attenuation (Over play system wiring conduit)
- 2.37 ASTM F1951 Wheelchair Accessibility
- 2.38 ASTM E303 Skid Resistant Test
- 2.39 ASTM F1951-99 Wheelchair Accessibility Test
- 2.4 IPEMA Certification is Mandatory. Submit IPEMA Certificate as part of the submittal package.
- 2.5 Statement of Warranty for a minimum five-year period with detailed Warranty Claim requirements of the owner and specific procedures to be followed by the manufacturer in terms of response and repair of warranty claims.
- 2.6 Insurance requirement – manufacturer will submit insurance certificate for General Liability and Excess liability for a total of \$15,000,000 (Fifteen Million dollars). Submit this insurance document as part of the submittal package. Lesser amounts of coverage shall automatically disqualify submittal.

PART 3 – PRODUCTS

- 3.1 Product: SpectraPour Safety Surfacing or approved equal. Equals shall be submitted for review per Specification Section 01600. No exceptions to this requirement are allowed. Contact Mark Hollowell at SpectraTurf, (800) 875-5788 or fax (951) 734-3630 (www.spectraturf.com).
- 3.2 Description: A dual durometer poured-in-place system with an upper wearing layer and an underlying impact attenuation cushion layer. The finished surface shall be porous and capable of being installed at varying thickness to comply with Critical Fall Height requirements of playground equipment installed in conjunction with the surface.
- 3.3 Materials: The SpectraPour play surface shall be manufactured from a precise blend of Spectra EPDM (or Spectra TPV by special request) mixed with 100% SpectraPour H3168 ALIPHATIC Polyurethane Resin. Polyurethane containing any TDI shall not be allowed due to environmental regulations. SpectraPour

H3168 has a crystal-clear consistency and does not impart yellowing found on standard aromatic polyurethane binders.

- 3.4 SpectraPour cushion course (bottom layer) shall be a precise blend of Spectra SBR rubber particles of heterogeneous distribution bonded by Spectra 1165 polyurethane binder applied to 100% of the rubber and installed to a designated thickness as required by the Consumer Product Safety's Commission's Guidelines and ASTM F1292-09 Test Criteria.
- 3.5 SpectraPour wearing surface (top layer) shall be a mixture of black EPDM or colored EPDM 1-4 mm granules (or Spectra TPV by special request), bonded by a polyurethane binder applied to 100% of the granules and applied to a minimum thickness of 1/2" over the cushion layer. Color choice and blend ratios to be of color selected by the owner.
- 3.6 SpectraPour Geotextile Fabric shall be used on systems installed directly over type 2 road base similar sub-base materials. SpectraTurf Geotextile Fabric is not used over concrete or asphalt substrates.
- 3.7 Finish texture: Pebble grain.
- 3.8 Color: As selected by City from submittal of samples of full range of manufacturer's standard colors.

Sub-Base Requirements

PART 1 – GENERAL

- 1.1 Preparation: The sub-base of the entire area to be surfaced shall be cleared of any foreign materials and treated to eliminate growth of grass, weeds, shrubbery, trees, etc.
- 1.2 The native sub-base shall be graded to allow for proper water drainage that will prevent sub-base erosion.
- 1.3 The native sub-base shall be compacted to a 90% rating.
- 1.4 Curbing as shown on the plans shall be installed at the perimeter of the area to be installed. Curbing shall be set at the required grade level to permit proper drainage and contain the area.

PART 2 – SUB-BASE SURFACE OPTIONS

- 2.1 Aggregate Base: Installation of a minimum six (6) inch layer of aggregate crushed rock or road base shall be completed and compacted to a 90% rating and a $\pm 1/4$ " level when measured with a ten foot straight edge in any direction. The compaction shall be completed in two (2) inch lifts after the area has been water sprayed. The entire area shall be graded at a minimum of 1.5-2% for

drainage in compliance with existing site conditions. Aggregate base other than type 2 road base must be submitted to SpectraTurf for approval.

- 2.2 Geotextile Fabric: SpectaPour Geotextile Fabric shall be applied over the compacted and graded stone sub-base. The application of the poured in place system shall be applied over the SpectraPour Geotextile Fabric.

PART 3 – CORRECTIONS

- 3.1 Any portion of the above state work shall be inspected by SpectraTurf prior to application of the safety surfacing materials.
- 3.2 Any corrections deemed necessary by SpectraTurf or the City shall be completed by the parties responsible for the appropriate portion of the work prior to the installation of the Safety Surfacing system.
- 3.3 Under no circumstance shall SpectraTurf assume responsibility nor warranty cost for any failure of work completed by others (see Statement of Warranty).

END OF SECTION.

SECTION 03100 - CONCRETE FORMWORK

PART 1 - GENERAL

Scope:

Furnish materials and perform labor required to execute this work as indicated on the drawings, as specified and as necessary to complete the contract, including, but not limited to these major items:

- Forms for all concrete;
- Shoring and bracing;
- Setting of embedded items;
- Removal of forms.

Related Work Specified Elsewhere:

- Furnishing Embedded Items.
- Reinforcement.
- Concrete.
- Concrete Finishing.

General Requirements:

Field Conditions. Verify drawing dimensions with actual field conditions. Inspect related work and adjacent surfaces.

Codes. Materials and work shall conform to the governing Building Code. In case of conflict between these specifications and the Building Code, the more stringent shall govern. Comply with the provisions of the following codes, specifications and standards, except as otherwise shown or specified:

- American Concrete Institute, ACI 347, "Recommended Practice for Concrete Formwork."

General. Provisions for other trades - provide all openings in concrete formwork to accommodate work of other trades; accurately determine size and location of openings, recesses, etc., from trades providing or requiring such items; place items required for incorporating into concrete accurately and securely supported on forms.

Design:

Base forms and falsework on required values of live and dead loads, weight of moving equipment on formwork, height of concrete drop, foundation pressures, stresses, lateral stability and other safety factors required during construction.

Materials used in formwork may not be reused except in forms, without the Owner 's approval.

Concrete surface finishes: Use various form types as specified below. Refer to Concrete Section and Concrete Finishes Section and use form materials for best end results.

PART 2 - MATERIALS

Form coating:

Non-grain-rising and non-staining type that will not leave residue on surface of concrete or adversely affect bonding to concrete of paint, plaster, mortar or other applied materials. Coatings containing mineral oils or other non-- drying ingredients will not be permitted. Submit manufacturer's data.

Softwood:

Construction grade, 1X6 and 1X8 boards, S4S for footings and foundations, S1S for concealed surfaces to be covered by other materials.

Plywood:

Douglas Fir DFPA EXT B-B grade, each piece bearing grade mark. When studs are not over 12" o.c. 5/8" 5-ply type may be used; when 16" o.c., use 3/4" 5-ply type. Use on formwork for exposed surfaces; may be used at concealed surfaces.

Metal Forms:

Removable metal forms shall be of proper gauges and sizes, carefully aligned and fitted. Removable metal forms shall be properly reconditioned for use, clean, free from dents, bends, rust, oil or other coatings, and shall meet the approval of the Owner prior to installation.

Form Ties:

Prefabricated rod, flat band or wire type, or threaded internal disconnecting type, of sufficient tensile strength to resist all imposed loads of fresh concrete and with external holding devices of adequate bearing area. Ties shall permit tightening and spreading of forms and leave no metal closer than 1 1/2" from surfaces.

Form Types:

For concealed surfaces of following types: Use boards or plywood as specified under Materials.

Footings and foundations.

Surfaces indicated to be covered by other materials.

For exposed surfaces: Use plywood or metal forms as specified under Materials.

PART 3 - CONSTRUCTION

Build form to exact shapes, sizes lines and dimensions as required to obtain accurate alignment, locations and grades, and level and plumb work in finished structure. Design, construct, erect, maintain and remove forms and related structures for concrete work in compliance with ACI 347. Provide for openings, off sets, keyways, recesses, moldings, reglets, chamfers, blocking, joint screeds, bulkheads, anchorages and other required features. Use nominal 2" thick wood or plywood or metal forms for all wall opening framing.

Use metal spreaders to provide accurate spreading for forms and positive tying of forms together.

Provide for recesses, rebates, drips and profiles as detailed.

Forms shall be of materials and construction adequate to safely support all loads, so that no sagging, leakage or displacement occurs during and after pouring of concrete.

Forms joints shall not show in exposed concrete.

Cleanouts and Cleaning: Provide temporary openings in wall and column forms for cleaning and inspection. Prior to pouring, clean all forms and surfaces to receive concrete.

Provide 3/8" x 3/8" chamfer strips for exposed corners unless otherwise indicated. Use 8' long plywood for exposed surfaces.

Fabricate forms for easy removal without hammering or prying against the concrete surfaces. Provide crush plates or wrecking plates where stripping may damage cast concrete surfaces. Provide top forms for inclined surfaces where slope is too steep to place concrete with bottom forms only.

Thoroughly clean forms and adjacent surfaces to receive concrete. Remove chips, wood, sawdust, dirt and all other debris just before concrete is placed. Retighten forms during and after concrete placement if required to eliminate mortar leaks.

Clean and repair surfaces of forms to be reused in the work. Split, frayed, delaminated or otherwise damaged form facing materials will not be acceptable. Apply new form coating compound material to concrete contact form surfaces.

When forms are extended for successive concrete placement, thoroughly clean surfaces, remove fins and laitance and tighten forms to close joints. Align and secure joints to avoid off sets. Do not use "patched" forms for exposed concrete surfaces.

Coat the contact surfaces of forms with a form-coating compound before reinforcement is placed. Provide commercial formulation form-coating compounds that will not bond with, stain, nor adversely affect concrete surfaces, and will not impair subsequent

treatments of concrete surfaces requiring bond or adhesion, not impede wetting of surfaces to be cured with water or curing compound.

Thin form-coating compounds only with thinning agent of type, and in amount, and under conditions of the form-coating compound manufacturer's directions. Do not allow excess form-coating material to accumulate in the forms or to come into contact with concrete surfaces against which fresh concrete will be placed. Apply in compliance with manufacturer's instructions.

Relation with Other Trades:

Check with all trades which require openings for passage of pipes, conduits, ducts, and other inserts; provide the necessary pipe sleeves, anchors or other required inserts properly and accurately installed. Sleeves, conduits, boxes and other items for mechanical and electrical work are specified to be installed under the appropriate sections of these specifications. Reinforce openings in the floors and walls for use of other trades as required.

Reglets and Rebates:

Each affected trade required to fasten work to the structure, or to insert therein any piping, conduit, duct, box, bolt, anchor, insert or other rough hardware, shall set such items securely and accurately in the forms. Be responsible for any and all changes in the position of such piping, box, bolt, anchor, inserts and other rough hardware after they have been set in the forms.

Conduits and pipes in concrete slabs will be permitted to be embedded therein under the following conditions:

Conduit or pipe diameter shall not exceed 1/3 of the slab thickness, minimum spacing of conduit or pipe shall be 3 diameters; there shall be a minimum separation of 1" from parallel reinforcing steel and conduit. Minimum concrete coverage over conduits and pipes shall be one inch. No crossovers will be permitted except as specifically detailed. No reinforcing steel shall be bent or displaced to permit passage of conduit or pipe. No conduit or pipe shall be placed in slabs 4 1/2" and less in thickness, unless specifically detailed by the Architect and specifically authorized by the Owner.

Special Features: Build into forms as character and requirements of work dictate.

Pouring Strips: Place pouring strips in the forms wherever horizontal construction joints are made in exposed concrete. Place pouring strips level and place concrete flush with the top of the pouring strip. After cleaning concrete surfaces and just ahead of placing of subsequent concrete, tighten form ties to conceal shrinkage.

Inserts, Anchors, etc.: Carefully check with other trades before completing forms and placing concrete to determine all embedded items are in place in the forms. Set miscellaneous anchors, bolts, ties, dowels, plates, etc., necessary to complete the work

as detailed. Embed no wood blocks other than treated built-in bucks or mailing blocks, in concrete.

Form Removal:

Remove forms only when concrete has developed sufficient strength to sustain its own weight and superimposed loads.

END OF SECTION.

SECTION 03200 - CONCRETE REINFORCEMENT

PART 1 - GENERAL

Scope:

Furnish materials and perform labor required to execute this work as indicated on the drawings, as specified, and as necessary to complete the contract, including, but not limited to these major items:

Reinforcement;
Wire mesh.

Related Work Specified Elsewhere:

Formwork.
Concrete.

General Requirements:

Field Conditions. Verify drawing dimensions with actual field conditions. Inspect related work and adjacent surfaces.

Codes. Materials and work shall conform to the governing Building Code. In cases of conflict between these specifications and the Building Code, the more stringent shall govern. Comply with the provisions of the following codes, specifications and standards, except as otherwise shown or specified:

American Concrete Institute, ACI 318, "Building Code Requirements for Reinforced Concrete."

Concrete Reinforcing Steel Institute, "Manual of Standard Practice."

American Concrete Institute, ACI 315, "Manual of Standard Practice for Detailing Reinforced Concrete Structures."

American Welding Society, AWS 012.1, "Recommended Practices for Welding Reinforcing Steel, Metal Inserts, and Connections in Reinforced Concrete Construction."

Tests and Inspections:

The Owner will pay for all tests and inspections of completed installation. Costs of all tests and inspections at materials sources and costs of retests of rejected work shall be borne by the Contractor.

Arranging for and scheduling of tests and inspections are responsibilities of the Contractor.

Submit written reports, six (6) copies each, for each material sampled and tested, prior to the start of work. Provided the project identification name and number, date of report, name of Contractor, name of concrete testing service, source of materials, material manufacturer and brand name for manufactured materials, values specified in the referenced specification for each material, and test results. Indicate whether or not material is acceptable for intended use.

Materials and installed work may require testing, retesting and inspection as directed. Allow free access to materials' stockpiles and facilities at all times.

NOTES: General Notes on the drawings are part of this Section.

PART 2 - MATERIALS

Billet Steel Bars:

Conform to ASTM A6 15, grade as required by drawings, No. 3 and larger bars deformed.

Welded Wire Fabric:

Conform to ASTM A 185 .

Tie Wire:

Annealed steel, 16 gauge minimum.

Supports For Reinforcing Bars:

Galvanized steel chairs and accessories or plastic-coated units for work exposed to view or weather so that finished surfaces will not be marred nor stained; use precast concrete blocks only (no metal), suitably sized and spaced for load distribution at slabs on earth or membrane. Use no supports of wood or other cellulose material.

No. 2 Reinforcing:

Conform to ASTM A30, Grade 90 or 60, round carbon steel bars, as indicated on the drawings.

Tests and Inspections:

The approved Testing Laboratory, whose services will be paid for by the Owner, except as noted, shall provide the following:

Test reinforcing steel as follows: Make one tensile and one bending test for each 10 tons or fraction thereof of each size of reinforcement, if steel is properly identified by mill test reports of each size and lot. Otherwise, make one tensile and one bending test for each 2.5 tons or fraction thereof of each size of reinforcement in each log. Contractor shall bear costs of tests.

Provide inspection as required by the Owner.

PART 3 - EXECUTION

Fabrication and Delivery:

Bending and Forming. Fabricate bars of indicated size and accurately form to shapes and lengths indicated and required, by methods not injurious to materials. Do not heat reinforcement for bending. Bars with bends or offsets not conforming to drawings will be rejected.

Marking and Shipping. Bundle reinforcement and tag with suitable identification to facilitate sorting and placing; transport and store at site so as not to damage material.

Placing:

Coordinate with other trades and expedite materials and labor to avoid omissions and delay.

Cleaning. At time of placing concrete, all reinforcement shall be free from rust, scale, grease, or other coating.

Securing in Place. Place all reinforcement in accordance with "CRSI Recommended Practice for Placing Reinforcing Bars," latest edition, and contract drawings. Use sufficient bar supports, ties, anchors, and other accessories to hold bars securely in place. Securely wire all stirrups and ties.

Welding:

Perform welding of reinforcing bars in accordance with "Recommended Practices for Welding Reinforcing Steel, Metal Inserts and Connections for Reinforced Concrete Construction" (AWS D1 2.1).

Welders shall be certified and qualified by tests as prescribed in the "Standard Qualification Procedures" (AWS B3.0), and qualified by the governing Building Department.

Fabric Reinforcement:

Roll out, straighten, cut to required size, and lay reasonably flat in place. Lap fabric one full mesh at sides and ends; securely wire together and to other reinforcement at frequent intervals.

Clearances:

Maintain minimum clear distance between reinforcing steel and face of concrete as indicated on the plans or as follows if not shown on plans:

Concrete footings formed against earth	3"
Concrete in forms with exposed face in contact with earth	2"
Walls: Below grade - 2"; above grade (#5 and smaller)	1 1/2"
Above grade (#6 and larger)	2"
Slabs, beams	1 1/2"
Principal column reinforcement	2"

END OF SECTION.

SECTION 03300 - CONCRETE

PART 1 - GENERAL

General:

All materials and work shall conform to STD. SPECS., Section 201 and 303.

Scope:

Furnish materials and perform labor required to execute this work as indicated on the drawings, as specified, and as necessary to complete the Contract, including, but not limited to, these major items:

- Foundations and shelter pedestals;
- All cast-in place concrete work;
- Exterior walks and slabs;
- Concrete mix designs;
- Curbs;
- Continuous inspection during placing of concrete;
- Testing;
- Equipment bases;
- Setting anchor bolts, inserts, dowels, and accessories cast in concrete which are specified under other sections;
- Curing vertical surfaces.

Related Work Specified Elsewhere:

- Formwork.
- Reinforcement.
- Concrete finishing.
- Curing flatwork.

General Requirements:

Field Conditions. Verify drawing dimensions with actual field conditions. Inspect related work and adjacent surfaces. Report to the Architect all conditions which prevent proper execution of this work.

Codes. Materials and work shall conform to the governing Building Code. In case of conflict between these specifications and the Building Code, the more stringent shall govern. Comply with the provisions of the following codes, specifications and standards, except as otherwise shown or specified:

- Standard Specifications, Sections 201 and 303 (Site Concrete).

- American Concrete Institute, ACI 301, "Specifications for Structural Concrete for buildings".

American Concrete Institute, ACI 311, "Recommended Practice for Concrete Inspection" .

American Concrete Institute, ACI 318, "Building Code Requirements for Reinforced Concrete ".

American Concrete Institute, ACI 304, "Recommended Practice for Measuring, Mixing, Transporting and Placing Concrete".

Tests and Inspections. The City will pay for all tests and inspections of completed installation of this work. Costs of all tests and inspections at materials sources and cost of tests of rejected work shall be borne by the Contractor. Arranging for and scheduling of tests and inspections are responsibilities of the Contractor.

Submit written reports, six (6) copies each, to the Architect for each material sampled and tested prior to the start of work. Provide the project identification name and number, date of report, name of Contractor, name of concrete testing service, source of materials, material manufacturer and brand name for manufactured materials, values specified in the referenced specification for each material, and test results. Indicate whether or not material is acceptable for intended use.

Materials and installed work may require testing, retesting and inspection as directed by Owner. Allow free access to materials stockpiles and facilities at all times.

The City will select an independent testing laboratory to conduct the test prior to starting construction. Selection of the material required to be tested shall be by the laboratory or the inspector and not by the Contractor.

The Contractor shall notify the Inspector a sufficient time in advance of the manufacture of material to be supplied by him under the Contract Document, which must by terms of the Contract be tested, in order that he may arrange for the testing of same at the source of supply.

Any material shipped by the Contractor from the source of supply prior to having satisfactorily passed such testing and inspection or prior to the receipt of notice from site representative that such testing and inspection will not be required shall not be incorporated in the job.

Notes. General Notes on the drawings are part of this section.

Coordination and Cooperation. Coordinate with some of other trades. Perform work without delay to job progress.

Delivery. Deliver all materials in their original containers with seals unbroken and manufacturer's name and product identification clearly legible on each package.

Storage. Store so as to preclude damage from moisture or from any other source.

Portland Cement:

Conform to ASTM C1 50, Type V, low alkali. Maximum total alkali shall not exceed 0.6%. Use only one brand of cement throughout the project.

Aggregates:

Fine Aggregate. Washed natural sand, conforming to ASTM C33, free all deleterious substances.

Coarse Aggregate. Washed gravel or crushed stone conforming to ASTM C33. Maximum aggregate size: Not larger than one-fifth of the narrowest dimension between sides of forms, one-third of the depth of slabs, nor three-fourths of the minimum clear spacing between individual reinforcing bars but never greater than 1 1/2" in any dimension.

Shrinkage. Limited to 0.05% as determined by method outlined in ASTM C157 (for hardrock concrete).

The maximum size of aggregates specified and used on any project shall be consistent with the dimensions and form of the section being placed, the location and spacing of reinforcing bars, and with the method of compaction and shall be such as will produce dense and uniform concrete free from rock pockets, honeycomb and other irregularities.

Tests and Inspections:

The approved testing laboratory shall provide the following services:

1. Concrete Mix Designs. Design all concrete mixes for each type of concrete. Submit six (6) copies of all laboratory tests or evaluation reports for all concrete materials and mix designs. Submit written reports for all concrete materials and mix designs. Submit written reports for each proposed concrete mix at least 15 days prior to start of work. Do not begin concrete production until mix designs have been reviewed and are acceptable to the City. Contractor shall bear costs of designs.
2. Tests of Cement. Sample the cement and determine the properties by the methods of test of ASTM C1 50. One sample shall be taken for each 100 tons of cement except that when used in bulk loading ready-mix plants where separate bins for pre-tested cement are not available, grab samples shall be taken for each day's pour and such samples shall be subsequently tested if required by Owner.
3. Tests of Aggregate. Sampling at source of supply or batching plant, in accordance with ASTM D75; Sieve Analysis-ASTM C136; Organic Impurities – ASTM C40; Soundness - ASTM C88; Potential Reactivity of Aggregates – ASTM C289.

4. Slump. One test for each concrete load at point of discharge and one each set of compressive strength test specimens; in accordance with ASTM C143.
5. Sampling Fresh Concrete. In accordance with ASTM C173, modified for slump to comply with ASTM C94.
6. Air Content. In accordance with ASTM C231, pressure method; one for each set compressive strength test specimens.
7. Compressive Strength Tests. Conform to ASTM C31 and ASTM C39. One set of cylinders for each 100 cu. yds. or fraction thereof, of each concrete class placed in any one day for each 5,000 sq. ft. of surface area placed. Two specimens tested at 7 days, 2 specimens tested at 28 days, and one specimen retained in reserve for later testing. Report test results in writing to the Architect and Contractor on the same day that tests are made. Reports of compressive strength tests shall contain the project identification name and supplier and truck number, name of concrete testing service, concrete type and class, location of concrete batch in the structure, design compressive strength at 28 days, concrete mix proportions, compressive breaking strength and type of break for both 7 days tests and 28 day tests.

Concrete Temperature. Test hourly when air temperature is 40 degrees Fahrenheit and below, and when 80 degrees Fahrenheit and above.

The quality and quantity of materials used in transit-mixed concrete and in batched aggregates shall be continuously checked at the location where the materials are measured by a specially approved Inspector unless waived by the Owner. When such inspection is waived, the quantities of materials used shall be certified by a Public Weighmaster at the plant.

Non-Shrink Grout:

Required for setting bolts, railings, and dowels in concrete. Grout shall be 5- Star, Master Builders' "Embeco Grout Pre-Mixed" or approved equal, used in accordance with manufacturer's directions. The pre-mixed grout requires only addition of water at job. Properly clean all existing surfaces of foreign material prior to grouting operations.

Mixing of Concrete:

Mix concrete by transit mixers only.

Requirements. Materials and proportioning as specified in this section.

Mixing. In accordance with ASTM C04, unless otherwise approved.

Mixing Time. At least 5 minutes after all water added to mixture but not less than one minute of which is immediately prior to discharge at job.

Final Position. Place transit mixed concrete in final position within 1 1/2 hours after water is first added to the batch, and at the time of placing, the concrete shall be in such condition that it will flow readily into position.

Certification. Transit mixed concrete supplier shall be a manufacturer licensed by the governing municipality. The manufacturer of transit mixed concrete shall deliver to the City a delivery ticket with each mixer truck. These delivery tickets shall specify type of concrete and weights of materials as noted in mix design and shall be signed by a State Licensed Weighmaster.

Admixtures. Use quantity of admixture in accordance with manufacturer's recommendations and mix design. Admixtures may be used providing they meet the approval of the City.

Expansion Joints:

Shall be as shown on plans.

PART 3 – EXECUTION

Preparations for Concreting:

Weather Provisions. Make provisions for weather conditions in accordance with ACI Specifications, the recommendations of the Testing Laboratory and meeting the approval of the Owner.

General:

Excavations. Before the placing of any concrete for foundations, insure that the excavations have been inspected and approved by the Owner.

Time of Placing. Do not place concrete until all reinforcement, conduit outlet boxes, anchors, hangers, sleeves, bolts and other embedded materials are securely and properly fastened in their proper places and positions; nor until all reinforcement and forms have been inspected by and meet the approval of the Building Inspector.

Pre-Saturation. Assume that soils are expansive. Pre-saturate soils under all slab areas as recommended by the soils engineer.

Surface Preparation. Upon completion of a lower pour and before new concrete is deposited upon or against concrete that has taken its initial set or has hardened, remove all encrustation's from the forms and reinforcement. Remove all laitance, oil and loose particle from concrete; clean concrete surfaces and forms thoroughly by washing with water under stiff pressure, or sandblasting, if necessary, to attain the specified condition.

Remove laitance after concrete has partially hardened (not less than two nor more than four hours after placing) by brushing with stiff bristles or by directing a stream of water from a 1/4" nozzle, or other approved methods, to expose clean top surface of aggregate. Where cleaning is not satisfactory to the City, sandblast surface and then wash again.

Equipment Bases:

Provide concrete bases and anchorages for mechanical, electrical, and other work as required and shown on drawings and approved shop drawings of related trades.

Placing of Concrete:

Conveying. As rapidly as possible, by methods avoiding segregation or loss of ingredients and rehandling.

Placing. Keep concrete as level as possible, with a minimum flow from one portion of the work to another. Place concrete with a workable, non-segregation mixture. Tamp and vibrate so as to produce a dense, smooth job, free from rocks, pockets and voids. Use approved trunks and chutes if free drop exceeds six feet.

Consolidate placed concrete by mechanical vibrating equipment supplemented by hand-spading, rodding or tamping. Use vibrators designed to operate with vibratory element submerged in concrete.

Cover reinforcing steel with water soaked burlap if it becomes too hot so that the steel temperature will not exceed the ambient air temperature immediately before embedment in concrete.

Concrete shall be floated to the grades indicated on the drawings, and after floating, shall be uniform in grade so as to contact at ten foot straight edge within a plus or minus tolerance of 1/8 inch.

Construction Joints:

Obtain approval of where placing of concrete shall stop or start. The flow surface of freshly poured concrete shall be level whenever any pour is stopped, with tight dams a necessary to accomplish this. Provide keys and dowels at construction joints where the concrete pour is interrupted per City's direction. Properly prepare joint surfaces.

Make construction joints in slabs only when unavoidable, and then only at points indicated or approved by City.

Permit no concrete to harden on any portion of forms or reinforcement prior to final depositing of concrete.

Conduits and Pipes:

The placing of conduits and pipes is specified under Concrete Formwork section.

Miscellaneous Items of Concrete Work:

The Contractor shall thoroughly study the plans to determine the extent of the concrete, all of which shall be included in the work of this section.

Protection:

Adequately protect all exposed concrete surfaces from damage which might result from work of other trades, on or about the project, until final acceptance of work. Take a suitable precautions approved by the Owner to secure satisfactory concrete in either hot or cold weather.

Defective Concrete:

Any concrete work that is not formed as indicated, is not true to intended alignment, not plumb and level where so intended not true to line or grade, which does not slope to drains, containing cracks detrimental to performance or appearance, or which has unrepairable voids or rock pockets, or wood or debris embedded in it, or does not fully conform to these specifications, will be deemed faulty material and workmanship. Remove such work from job site and replace with concrete complying with requirements of these specifications at Contractor's expense.

If compressive tests of concrete cylinder specimens fail to show compressive strength specified, the City may require test to be made of core samples taken from the placed concrete represented by the unsatisfactory test samples. Take and test in accordance with ASTM C42. If the results of core tests show that the compressive strength is less than specified, concrete will be deemed defective and shall be replaced in a manner acceptable to the City, at no additional cost to the City.

Curing:

Protect freshly placed concrete from premature drying and excessive hot or cold temperature, and maintain without drying at a relatively constant temperature for a period of time necessary for hydration of cement and proper hardening.

Start initial curing as soon as free water has disappeared from concrete surface after placing and finishing. Keep continuously moist for not less than 72 hours.

Perform curing of concrete by moist curing, by moisture-retaining cover curing, by membrane curing, and by combinations thereof as applicable.

NOTE: Concrete which is to be painted or to receive a surface application which must bond to the concrete shall be cured by moisture curing or moisture retaining cover only. Application of liquid curing compound is absolutely prohibited.

Curing Formed Surfaces:

Thoroughly wet forms containing concrete, including the tops and exposed portions of concrete, and maintain in a thoroughly moist condition until the forms are removed, but not less than (7) consecutive days from the time of placing concrete. Continuously wet concrete between the hours of 8:00 a.m. and sunset each day, including Saturdays, Sundays and Holidays, for the first 4 days, and not less than 3 times daily for the remaining 3 days or until the concrete reaches design strength. If forms are removed, continue curing by methods specified herein as applicable, for the time period specified above.

Markings:

No advertising, impression, stamp, or mark of any description will be permitted on surface of concrete or cement finish.

Coordination:

Coordinate all work with the installation of posts, sleeves, etc.

Posts or sleeves shall be set in cured footings prior to placing concrete slab.

Post foundations shall cure at least 14 days prior to placing slabs.

END OF SECTION.

SECTION 03350 - CONCRETE FINISHES

PART 1 – GENERAL

Scope:

Furnish materials and perform labor required to execute this work as indicated on the drawings, as specified and as necessary to complete the contract, including, but not limited to these major items:

- Finish of all concrete;
- Curing of flatwork;
- Sealers.

Related Work Specified Elsewhere:

- Formwork.
- Reinforcement.
- Curing Vertical Surfaces.
- Patching and Repair of Formed Surfaces.

General Requirements:

Field Conditions. Verify dimensions with actual field conditions. Inspect related work and adjacent surfaces.

This Section supplements Concrete Section.

Finish all surfaces to present a uniform appearance throughout the area involved and throughout adjacent areas with the same treatment.

Where finishing occurs adjacent to finished metal or other finished surfaces, particularly where serrated or indented, remove all traces of cement film before it hardens. This applies particularly to stair nosings and similar items.

Samples. In accordance with Section 01340, submit duplicate samples of proposed finishes requested by the City. Sizes as directed. Finished work shall match samples as approved by City.

PART 2 – MATERIALS

Portland Cement:

Per Section 03300.

Aggregates:

Per Section 03300.

Water:

Per Section 03300.

Concrete Surface Retarder:

Form Grade concrete Surface Retarder by L.M. Scofield Co., 213/723-5285, or other approved by Architect.

Expansion Joint Sealer for Use Except Where Sealants Specified Under Caulking and Sealants are Required:

Sikaflex-1A, Sikaflex- 2C, or Sikaflex-15LM by Sika Chemical Corp. (310- 941-0231), or other product approved by the Architect. Use appropriate product for each construction condition consistent with Manufacturer's literature or written recommendation.

Curing and Hardening Compound:

For use on finish indicated to be left exposed. Material shall contain a fugitive dye. Approved products include West "Concrete Floor Treatment," Upco "Polyclear," Hunt "MD7C," Tock Bros., "Cureetox," and Sonneborn "Kure-N-Seal," or Upco "Polyclear." Apply in accordance with manufacturer's recommendations.

PART 3 – EXECUTION

Floating:

Bring slabs to proper level, using screeds and strikeoff with a straightedge. Remove excess water and laitance. Compact by rolling with weighted rollers or by tamping with grid tampers. Float with power rotary floating machine. Thoroughly hand tamp areas not accessible for rolling. Float areas not accessible for power floating by hand, using a wood float. Test surface with a 10' straightedge and eliminate high and low spots of 1/8" or more. Cumulative tolerances are not allowed.

Screeds:

Of such type and construction, and so spaced and located as to provide surface tolerances specified. Use continuous screed to provide surface over which to drag straightedges. Refer to requirements under Concrete Section which apply to this work.

Embedded Items:

Set items at exact required elevations, level and in proper relationship to other work. Where items have a drainage function, insure that slabs slope to them properly. Adjust finish work to properly connect and fit to other work.

Defective Finishing:

Finish which is not true to line and plane, which is not thoroughly troweled and properly surfaced as required, which varies in excess of requirements along a 10' straightedge, which scuffs or has a rough top surface (except where required), which does not connect properly to adjoining work, which does not slope to drains, which does not match approved samples, or is not properly cured, will be deemed defective. Remove and replace with proper work and material conforming with contract requirements, and to limits directed by the Architect.

Protection:

Protect all finished work from damage by impact or from building rubbish. Protect work of others from damage by this work. Protect exposed slabs and slabs which receive applied coatings from soiling from foot traffic and subsequent work performed after finishing; use protective paper cover herein before specified. Maintain protection in effective condition as long as the need exists. Control the use of water within the building so that no damage to previously installed work or existing structure and finish occurs.

Markings:

At expansion joints and elsewhere as indicated on the drawings, provide marking with a rounded edging or marking tool to a 1/4" radius.

In textured work, edge and mark with a combination edging and smoothing tool approximately 1 1/2" wide.

Where so indicated, or where required tooled markings may have been inadvertently omitted, provide markings cut into surface of cured concrete with a diamond abrasive saw. Properly coordinate this work with the work of other trades in order to avoid damage to adjacent surfaces. Unless detailed otherwise, cut sawn markings 1/8 " wide by 3/4" deep.

Make marking lines straight or curved where required by the drawings, equally spaced and parallel to adjacent lines or walls, edges and other construction, and of uniform depth and cross section, with intersections accurately formed.

Bases, Curbs:

Provide cement base stair risers, plinths, stair skirting, curbs, sill, machine bases and formed thresholds where indicated. Mix two parts fine aggregate to one part Portland cement with a minimum amount of water to make relatively dry mixture. Shape all work true to detail.

Schedule of Finishes:

General. The applicator of processed concrete finishes must examine the substrate and the conditions under which work is to be performed and notify the Contractor in writing of unsatisfactory conditions. Do not proceed with the work until satisfactory conditions have been corrected in a manner acceptable to the applicator. All or only some of the following finishes may be required as called for in this text or shown on the drawings.

Comply with air pollution and safety regulations of governing authorities. Protect adjacent materials and finishes from dust, dirt and other surface or physical damage during finishing operations. Provide all protections as may be required and remove from site at completion of the work.

Float finish all slab surfaces which are to receive trowel finishes and other finishes as specified and noted on drawings. After screeding and consolidating slabs, begin floating when surface water has disappeared or concrete has stiffened sufficiently to permit operation of power driven floats, or both. Hand-float if area is inaccessible to power units. Check and level surface plane to a tolerance not exceeding 1/8" in 10' when tested with a 10' straight edge. Uniformly slope surfaces to drains. Immediately after leveling, refloat surface to a uniform, smooth, granular texture.

Site Ramp and Walk Finish: Non-slip, uniform medium brush or broom finish unless noted otherwise on plans

Concrete surface shall be handfloated, edges and joints trued, and medium brush or broom finished transverse to the direction of the slab.

NOTE: Concrete which is to be painted or to receive a surface application which must bond to the concrete shall be cured by moisture curing or moisture retaining cover only. Application of liquid curing compound is absolutely prohibited.

END OF SECTION.

APPENDIX A

PLAY EQUIPMENT SPECIFICATIONS



SECTION 116813 ñ PLAYGROUND EQUIPMENT Bloomfield Park

PART 1 ñ GENERAL

- 1.1 Description: OE25012798
- 1.2 Quality Assurance:
 - 1.2.1 Equipment and Design Qualifications:
 - 1.2.1.1 All playground equipment shall comply will all the requirements of CPSC, ASTM, ADA and will be IPEMA certified.
 - 1.2.1.2 All safety fall zones shall be determined in accordance with ASTM 1487-07 and CPSC Handbook for Public Playground Safety Publication number 325. All playground equipment designs shall be evaluated and signed off by a NPSI certified playground inspector.
- 1.3 Manufacturer Qualifications:
 - 1.3.1 The manufacturer of the playground equipment must carry a minimum of 10 million dollars of liability insurance with an AM best rating. The manufacturer of the playground equipment must have a minimum of 10 years experience in manufacturing commercial playground equipment.
- 1.4 Applicable Standards
 - 1.4.1 ASTM F1487-07
Standard consumer performance specification for playground equipment for public use.
 - 1.4.2 CPSC Handbook for Public Playground Safety, publication number 325.
 - 1.4.3 CSA Z614-20
 - 1.4.4 EN 1176-98 (if requested)
European Standard for Playground equipment
 - 1.4.5 All manufactured components must be IPEMA certified
International Playground Equipment Manufacturers Association.

PART 2 ñ PRODUCTS

2.1

Part Number	Description
100001134	Deck-to-deck, 205 mm (8") (brown or blue vinyl)
105295	BAG ZIPLOCK 12" X 14"
200006942	Balcony Deck
200006976	Double Wide Slide, 1220 mm (48")
200006993	Sliding Pole, 1625 mm (64") deck
200007097	Counter Panel, adjustable, below deck only
200008193	TOOL BOX KID BUILDERS #2, S.S. (MM)
200013797	KB 120" POST PLUS W/CAP

200013800	KB 136" POST PLUS W/CAP
200013812	KB 148" POST PLUS W/CAP
200013871	Challenge Ladder straight, 3660 mm (12')
200013892	Single-Rail Assembly
200013924	Safety Loop Assembly
200066522	Deck-To-Deck Steps, 815 mm (32"), w/safety rails
200079019	Leg Lift Loop
200102486	Fan Climber, 1422 mm (56") deck
200111492	Label, Identification stamped w/rivets
200200102	Bridge, "S" Curved w/safety rails, right, 2440 mm (8')
200200237	Steel "Parachute Guy" Panel, deck mount (accent color)
200200530	KIT MAINTENANCE KB W/PAINT W/O LIST
200200663	Steel Telescope Panel KB, deck mt.
200200686	KB 186" POST PLUS W/CAP
200201314	Jackhammer
200201539	Stand N Spin
200201870	Solo Spinner
200202280	Clock Braille Panel DKMT
200202420	Silo Climber 2400(96")
200202468	Recycled Treehouse Pod Climber 64"
200202483	KB Deck Square Large Hole 11GA
200202492	KB Deck Hex Large Hole 11GA
200202562	KB Transfer Station 1220 SFTY RL 11GA
200202614	PB 114" POST W/CAP
200202733	NU-Edge Tree 64" W/KB Safety Loops
200202780	NU-Edge Arch Log Climb 1220MM(48") F/KB
200202835	ASSY BELT SEAT F/8' SWING W/CHAIN
200203099	KB 242" POST 5" F/SHADE
200203131	Quantum II Slide, 8' Right Spiral
200203142	KB Shade 17' Hex Fire Retardant Fabric
200203205	KB BOINGO
200203423	Generation Swing
200203427	NU-Edge X Lumberjack Climber 64"
200203432	NU-Edge X Tower with Morphous Slide
200203433	Inclusive Swing Seat with Chains 8'
200203435	Alex's lemonade stand
200203447	NU-Edge X Culvert Climber 24" KB
200203459	NU-Edge X Trail Climber 64" KB
200203574	Steering Wheel, plastic, post mount
200203685	Stax Summit Climber
200203886	Unlimited Play Single Sided Communication Board
200305597	14' LARGE CRATE (ASSY DOMESTIC)
787Z	RISK MANAGEMENT SIGN - ENGLISH
912358	INCLUSIVE 3-POINT HARNESS W/hardware
925603	LABEL P/C (5 TO 12 YRS) PPLT
925960	THUMB DRIVE 2GB - PPLT

926461	LABEL,GENERATION SWG, 2YR-12YR, LT
HW7704-1	HRDW PKG F/CLAMP ELIMINATION S1/1
INSTALL	INSTALL BOOK FOR PP ORDERS
BOOK	
LT0963AWF	5.00" OD 6-Unit Arch Swing Shade (Triple) with Anti
R	Wrap

2.2 Manufacturer: PlayPower Operations, Monett, Missouri

2.3 General Equipment Specifications:

2.3.1 Plastic Caps shall fit snugly into 127 mm (5") and 33 mm (1.315") tube ends and shall be injection molded Low Density Polyethylene. This plastic shall be stabilized against ultraviolet (UV) degradation and shall have color molded in. All caps will be installed at the factory and 127 mm (5") caps will be secured with aluminum hammer drive pins.

2.3.2 Aluminum Caps shall fit snugly into 127 mm (5") tube ends. The Aluminum cap shall be made from SAE 413 aluminum with a minimum wall thickness of 4 mm. Prior to insertion into the post, all caps shall be painted per PPLT PAINT Specification. All caps will be installed at the factory and 127 mm (5") caps will be secured with aluminum hammer drive pins.

2.3.3 PPLT PAINT Specification: Primer shall be electrostatically applied and cured in an infrared oven. Paint shall be an electrostatically applied polyester TGIC (triglycidyl isocyanurate) powder coating which shall be cured at temperatures between 400 and 500 degrees Fahrenheit. The thickness of the combined primer/paint shall be between 5 mils and 11 mils. The polyester powder shall comply with ASTM standards: D-2794 (Impact Resistance Test), B-117 (Salt Spray Resistance Test), G26 (Weatherability Test), and D3359B (Adhesion Crosshatching Test).

2.3.4 PlayPower Operations ROTO Specification: Rotationally Molded Plastic Parts shall be molded from linear low density polyethylene with ultraviolet (UV) light stabilizers, anti-static guard (for Molding purposes) and color molded in. This material shall comply with ASTM-D-790 (Flex Modulus), ASTM -D-638 (Tensile Strength), ASTM-D-648 (Heat Deflection Temperature), ARM-STD (Low Temperature Impact) and rated UL 94.

2.3.5 PPLT PVC Specification: Textured Poly-Vinyl-Chloride coating shall be an average of 3 mm (.125") thick. Poly-vinyl-chloride coating shall be oven cured and textured for added traction when wet or dry.

2.3.6 Hardware: Bolts, Nuts, Screws, Threaded Spacers, Washers and Other Hardware used in the assembly of components shall be metric stainless steel and tamper resistant. All necessary hardware shall be provided.

2.3.7 Deck Clamp assemblies shall consist of two steel half-clamps. Clamp

profiles shall be designed to eliminate protrusions. Clamps shall be die formed from 12 gauge HRPO steel. Clamps shall have a 6 mm (.25") radius rib formed in the top and bottom of the clamp for structural integrity. The clamp attachment bracket shall be formed from 11 gauge sheet steel and shall be welded securely to the clamp half. All clamp halves shall be zinc plated, yellow dichromate coated and phosphate coated before being TGIC (triglycidyl isocyanurate) polyester powder coated. Tamper-resistant fasteners shall be used to retain clamps and shall consist of M10 six lobe socket head stainless steel cap screws and M10 slab-base Tee nuts. All clamps shall be provided with aluminum hammer drive pins to protect against slippage.

- 2.3.8 Rail Clamp assemblies shall consist of two steel half-clamps. Clamp profiles shall be designed to eliminate protrusions. Clamps shall be die formed from 12 gauge HRPO steel. Clamps shall have a minimum 6 mm (.25") radius rib formed in the top and bottom of the clamp for structural integrity. All clamp halves shall be zinc plated, yellow dichromate coated and phosphate coated before being TGIC (triglycidyl isocyanurate) polyester powder coated. Tamper-resistant fasteners shall be used to retain clamps and shall consist of M10 six lobe socket head stainless steel cap screws and M10 slab-base Tee nuts. All clamps shall be provided with aluminum hammer drive pins to protect against slippage.
- 2.3.9 Wing and Panel Clamp assemblies shall consist of two steel half-clamps. Clamp profiles shall be designed to eliminate protrusions. Clamps shall be die formed from 12 gauge HRPO steel. Clamps shall have a 6 mm (.25") radius rib formed in the top and bottom of the clamp for structural integrity. The clamp wing bracket shall be formed from 7 gauge sheet steel and shall be welded securely to the clamp half. All clamp halves shall be zinc plated, yellow dichromate coated and phosphate coated before being TGIC (triglycidyl isocyanurate) polyester powder coated. Tamper-resistant fasteners shall be used to retain clamps and shall consist of M10 six lobe socket head stainless steel cap screws and M10 slab-base Tee nuts. All clamps shall be provided with aluminum hammer drive pins to protect against slippage.
- 2.3.10 All Steel Tube Components shall comply with ASTM standards: A-500, Or A-513. The steel tube components contain five layers including an inside galvanized coating, high tensile strength cold formed steel, hot dipped pure zinc meeting ASTM B-6 applied at 3.5 tenths of an ounce per square foot, and a proprietary conversion and advanced polymer coatings. The components are freed of excess weld spatter and shall be cleaned in a multiple bath system which shall include a rust-inhibitive iron phosphate wash prior to painting. Exceptions: 127 mm (5") O.D. aluminum posts.
- 2.3.11 Brackets shall be fabricated from punched and formed 4.5 mm pre-galvanized sheet steel.

2.3.12 Gaskets shall be rubber injection molded from ultraviolet (U.V.) protected synthetic rubber. Rubber gaskets shall provide an aesthetic seal around the wonder fastener and bracket.

2.3.13 Footing for 127 mm (5") diameter upright posts shall be 305 mm (12") diameter x 940 mm (37") depth. Galvanized steel posts shall be 127 mm (5") O.D., 11 gauge pre-galvanized round tubing. Minimum tensile strength shall be 330MPa (48,000 psi). Minimum yield point shall be 310MPa (45,000 psi). The bottom portion of all upright posts shall be crimped slightly

2.3.14 Component Specifications:

2.3.15.1 11 GAUGE GALVANIZED STEEL POST shall be 127 mm (5) O.D., 11 gauge pre-galvanized round tubing. Minimum tensile strength shall be 380MPa (55,000 psi). Minimum yield point shall be 345MPa (50,000 psi). Plastic or Aluminum caps shall fit into the end of the 127 mm (5) tube. After fabrication, all posts shall be painted per PPLT PAINT Specification.

2.3.15.2 90 DEGREE AND "S" BRIDGE WITH SAFETY RAILS shall be a minimum of 915 mm (36") wide. Bridges shall be fabricated from laser cut 11 gauge steel with 76 mm (3) formed sides. Bridge assemblies shall be vinyl dipped per PPLT PVC Specification. Safety Rails vertical rungs shall be fabricated from 25 mm (1) pre-galvanized steel tubing. The horizontal rails shall be fabricated from 33 mm (1.315) pre-galvanized steel tubing. Safety rails shall provide an enclosure, and shall have no gaps greater than 80 mm (3.15") and less than 254 mm (10"), especially between vertical rungs and posts. Safety rails shall be painted per PPLT PAINT Specifications.

2.3.15.3 ALEX'S LEMONADE STAND PANELS shall be fabricated from 33 mm (1.315) O.D. and 3/4 X 1 FSO pre-galvanized tubing with 3 mm (11 gauge) pre-galvanized sheet steel. The counter top and panel fronts are constructed from 3/4 (19mm) and 1/2 (13mm) thick high density polyethylene sheets. After fabrication, all steel components shall be painted per PPLT PAINT Specification. Logo signage shall be a fiberglass embedment sign approximately 2mm (0.09) thick.

2.3.15.4 BALCONY VINYL CLAD METAL DECK shall cover a minimum of .365 square meters (567 square inches) of top surface area and be designed to maintain a full 1.2 m (48) on center post spacing. Construction shall consist of one semi circle shaped deck. Metal decks shall be fabricated from 13 gauge hot rolled steel, which shall be punched, formed and reinforced with welded in place 11 gauge strips. Deck shall have a pattern of equally spaced holes on

one edge to provide flush mounting to the deck. This assembly shall be coated per PPLT PVC Specification. Balcony Rails provide full enclosure and shall be fabricated from 33 mm (1.315) O.D. pre-galvanized steel tubing. Rails shall be painted per PPLT PAINT Specification.

2.3.15.5 Boingo Drum shall be rotationally molded per PPLT ROTO Specification. Support ring shall be constructed from 19mm (3/4") thick high density polyethylene sheet. Support shall be constructed from 33mm (1.315") O.D. pre-galvanized steel tubing welded to 7ga. (4.5mm) thick plates and painted per PPLT PAINT Specification.

2.3.15.6 COLORED KICK PLATES AND DECK TO DECK ACTIVITY PLATES shall be fabricated from 13 gauge (2.3 mm) pre-galvanized sheet steel for the 8", 12", and 16", 24", 28", and 32" plain models. Models with slots or Parachutes (24, 28, 32) shall be fabricated from 11 gauge (3.0 mm) pre-galvanized sheet steel. After fabrication, deck to deck plates shall be painted per PPLT PAINT Specification. 8", 12" and 16" plates shall have fun faces laser cut into them. 24", 28" and 32" plates shall have grooves cut into them with optional slider "Parachute/shapes" fabricated from CNC Routed high density polyethylene sheet.

2.3.15.7 DECK TO DECK STEPS WITH SAFETY RAIL shall consist of welded tread, riser and stringer sections fabricated from 13 gauge hot rolled steel. This assembly shall be coated per PPLT PVC Specification. Safety Rails shall be fabricated from 33 mm (1.315") O.D. and 3/4 X 1 FSO pre-galvanized tubing. Safety rails shall provide an enclosure and shall have no gaps greater than 80 mm (3.15") and less than 254 mm (10"), especially between vertical rungs and posts. Safety Rails to be painted per PPLT PAINT Specification.

2.3.15.8 DOUBLE WIDE SLIDE WITH HOOD shall be rotationally molded per PPLT ROTO Specification. Plastic double wide slide sides shall be 203 mm (8) high from the slide surface and slide bed way shall be designed with a 406 mm (16") minimum width. Double wide slide shall be a one-piece design with a center divider having no seams, joints or gaps. Slide end support shall be fabricated from 38 mm (1.5) square tubing. Mid support shall be fabricated from 60.3 mm (2.37) O.D. tubing. All steel tubing shall be painted per PPLT PAINT Specification.

2.3.15.9 FAN CLIMBER shall be designed to incorporate a one-piece, all welded construction with rungs welded to side rails. The side rails shall be fabricated from 42.2 mm (1.66") O.D. pre-galvanized steel tubing and shall be arched with a center-to-center spacing of 496

mm (19.5). The rungs shall be fabricated from 33.4 mm (1.315) O.D. pre-galvanized steel tubing and shall have a U shape design. Fan Climbers mount directly to safety loops on a deck. Safety Loops shall be fabricated from 33 mm (1.315) O.D. pre-galvanized steel tubing and 3 mm (11 gauge) pre-galvanized sheet steel. After fabrication all parts shall be painted per PPLT PAINT Specification.

2.3.15.10 FULL-HEX VINYL CLAD METAL DECK shall cover a minimum of 3.78 square meters (5,900 square inches) of top surface area and be designed to maintain a full 1.2 m (48) on center post spacing. Construction shall consist of two half-hex shaped decks assembled together during installation. Metal decks shall be fabricated from 11 gauge hot rolled steel which shall be punched, formed and reinforced with welded in place 11 gauge strips and 7 gauge corner plates. Decks shall have a pattern of equally spaced holes on each edge to provide flush mounting of play events that attach to the deck. This hole pattern shall allow multiple decks at the same level to be assembled providing a surface without size limitations. This assembly shall be coated per PPLT PVC Specification.

2.3.15.11 GENERATION SWING SEATs shall be rotationally molded from linear low density polyethylene with molded in graphics per PPLT ROTO Specification. Swing chains shall be 4/0 straight link galvanized steel coated per PPLT PVC Specification.

2.3.15.12 Identification label shall be fabricated from aluminum sheet .016 (4 mm) thick and attached with aluminum pop rivets.

2.3.15.13 JACKHAMMER consists of an assembled lower weldment, middle weldment, & upper tube along with a steel spring, rubber stops, and associated hardware. Lower weldment shall be constructed from 76mm (3") O.D. x 11 ga. & 50 mm (2") O.D. x 10 ga. tubing with 9.5mm (.375) plate & 5/8-11 stud. Middle weldment shall be constructed from 89mm (3.5) x 11 ga., 76mm (3) O.D. x 11 ga., 50 mm (2") O.D. x 10 ga. tubing with 9.5mm (.375) plate, 4.5mm (7 ga.) pre-galvanized sheet steel, & 33mm (1.3) O.D. pre-galvanized tubing (handles). Upper tube shall be constructed from 89mm (3.5) x 11 ga. pre-galvanized tubing. After fabrication all steel parts shall be painted per PPLT PAINT Specification.

2.3.15.14 KB CULVERT CLIMBER pods shall be made from pre-galvanized 305 mm (12") 16ga corrugated metal pipe and shall be welded to plates made from 7 ga and 11 ga pre-galvanized sheet steel. The top of the pods shall be covered with CNC routed HPDE. Handrails (when necessary) shall be fabricated from 42.2 mm (1.7") O.D. pre-galvanized tubing. Enclosures shall be

fabricated from 33 mm (1.315) O.D. pre-galvanized steel tubing and 3 mm (11 ga) pre- galvanized sheet steel. All steel components shall be painted per PPLT PAINT specification.

2.3.15.15 KB Lumberjack Climber back plates shall be fabricated from 4.5mm (7 gauge) pre-galvanized sheet steel. Frames shall be fabricated from 33.4 mm (1.315) 33.4 mm (1.315) o.d. pre-galvanized steel tubing. Enclosures shall be fabricated from 33 mm (1.315) O.D. pre-galvanized steel tubing and 3 mm (11 gauge) pre-galvanized sheet steel. All steel components shall be painted per PPLT PAINT Specification. Stumps shall be made from NATURTEK material. NATURTEK material is a Polyester Composite: Color impregnated, UV stabilized, non-mold-supporting, formed from virgin corrosion-resistant polyester resin; with 1/2- to 3/4- inch (12 to 18 mm) wall thickness, with the following characteristics: Flexural Strength, ASTM D 790: 18,000 psi. ; Tensile Strength, ASTM D 638: 9,000 psi. ; Compressive Strength, ASTM D 695: 17,000 psi.; Barcol Hardness, ASTM D 2583: 40 minimum.

2.3.15.16 KB NU-EDGE TREE CLIMBER WITH SAFETY LOOOPS shall be made from NATURTEK material formed into the shape of a large log. It will have integral mounting plates fabricated from 3 mm (11ga) pre-galvanized sheet steel. Supports shall be fabricated from 3 mm (11 ga) pre-galvanized sheet steel, 48.3 mm (1.875) O.D. and 42.2mm (1.625) O.D. pre-galvanized tubing. Enclosures shall be fabricated from 33 mm (1.315) O.D. pre-galvanized steel tubing and 3 mm (11 ga) pre-galvanized sheet steel. Supports and enclosures shall be painted per PPLT PAINT Specification. NATURTEK material is a Polyester Composite: Color impregnated, UV stabilized, non-mold-supporting, formed from virgin corrosion-resistant polyester resin; with 1/2- to 3/4- inch (12 to 18 mm) wall thickness, with the following characteristics: Flexural Strength, ASTM D 790: 18,000 psi. ; Tensile Strength, ASTM D 638: 9,000 psi. ; Compressive Strength, ASTM D 695: 17,000 psi.; Barcol Hardness, ASTM D 2583: 40 minimum.

2.3.15.17 KB Telescope Panels shall be fabricated from a combination of 33.4 mm (1.312") O.D. pre-galvanized steel tubing, 19mm X 25.4mm obround pre- galvanized steel tubing, and laser cut plates fabricated from 3.0mm (11 gauge) pre-galvanized sheet steel. Telescopes shall be rotationally-molded per PPLT ROTO Specification. Panels shall be painted per PPLT PAINT Specification.

2.3.15.18 KB TRAIL CLIMBER shall be made from pre-galvanized 102 x 102 mm (4" x 4") 13 ga steel tubing and shall be welded to plate made from 11 ga pre- galvanized sheet steel. Enclosures shall be

fabricated from 33 mm (1.315) O.D. pre-galvanized steel tubing and 3 mm (11 ga) pre-galvanized sheet steel. All steel components shall be painted per PPLT PAINT specification. Steps shall be fabricated from CNC routed 25 mm (1") x 140 mm (5.5") durable plastic boards made from a polypropylene and mineral filler blend and HDPE.

2.3.15.19 KB TREEHOUSE VERTICAL POD CLIMBERS shall be fabricated from 42.2 mm (1.66") x 11 gauge pre-galvanized steel tubing. Plates shall be fabricated from 3 mm (11 gauge) sheet steel. Pods shall be fabricated from E.P.D.M. 50 duro rubber with a steel insert molded inside. Panels shall be fabricated from 25 mm (1) X 140 mm (5.5) durable plastic boards made from a minimum of 95% post consumer recycled content and 3 mm (11 gauge) pre-galvanized sheet steel. After fabrication all steel components shall be painted per PPLT PAINT Specification.

2.3.15.20 KID BUILDERS' PANELS, LIONS HEAD CRAWL TUNNEL (U.S. Patent D-381056), SEAT, COUNTER (U.S. Patent D-391615), ADJUSTABLE COUNTER, AND DOOR PANEL shall be rotationally molded per PPLT ROTO Specification. The molded in graphics shall not be raised above the surface of the panel.

2.3.15.21 KidBuilders Braille panel is constructed from 3/4 (19mm) thick high density polyethylene with a braille design routed in the front. The panel is mounted to the front edge of a deck along the lower edge and to 2 posts using wing clamps in the upper corners.

2.3.15.22 LEG LIFT LOOP shall be fabricated from 33 mm (1.315") O.D., pregalvanized steel tube. Mounting tab shall be fabricated from 13 gauge pre-galvanized sheet steel. After fabrication, all parts to be painted per PPLT PAINT Specification.

2.3.15.23 NU-EDGE ARCH LOG CLIMBS shall have steps made from NATURTEK material formed into the shape of small logs. They will be attached to a climber fabricated from 4.5mm (7ga) pre-galvanized sheet steel and 60.3mm (2.375) OD pre-galvanized tubing. Enclosures shall be fabricated from 33 mm (1.315) O.D. pre-galvanized steel tubing and 3 mm (11 gauge) pre-galvanized sheet steel. Hand support shall be made from 42.2mm (1-5/8) O.D. pre-galvanized steel tubing. Climbers, hand support and enclosures shall be painted per PPLT PAINT Specification. NATURTEK material is a Polyester Composite: Color impregnated, UV stabilized, non-mold-supporting, formed from virgin corrosion-resistant polyester resin; with 1/2- to 3/4- inch (12 to 18 mm) wall thickness, with the following characteristics: Flexural Strength, ASTM D 790: 18,000 psi. ; Tensile Strength,

ASTM D 638: 9,000 psi. ; Compressive Strength, ASTM D 695: 17,000 psi.; Barcol Hardness, ASTM D 2583: 40 minimum.

2.3.15.24 NUEDGE-X TOWERS shall have posts fabricated from 127 mm (5) O.D., 11 gauge pre-galvanized round tubing. Minimum tensile strength shall be 380MPa (55,000 psi). Minimum yield point shall be 345MPa (50,000 psi). After fabrication, all posts shall be painted per PPLT PAINT Specification. Square VINYL CLAD METAL DECK shall be fabricated from 13 gauge hot rolled steel which shall be punched, formed and reinforced with welded in place 11 gauge strips and 7 gauge plates and be designed to maintain a full 1.2 m (48) on center post spacing. Decks shall have a pattern of equally spaced holes on each edge to provide flush mounting of play events that attach to the deck. This assembly shall be coated per PPLT PVC Specification. TUNNEL SLIDE shall be configured to approximately a 762 mm (30) internal diameter cross section. Tunnel slides shall be assembled using an overlap joint on section connections and shall not have any internal hardware. Tunnels, elbows and panels shall be rotationally molded per PPLT ROTO Specification. Tunnel slide end supports shall be fabricated from 38 mm (1.5) square, pre-galvanized steel tubing and mid supports shall be fabricated from 42.2 mm (1.66") O.D. pre-galvanized steel tubing. Both supports shall be painted per PPLT PAINT Specification. DIAMOND CLIMBERS shall be fabricated from 89 mm (3.5), 60.3 mm (2.375) and 42.2 mm (1.66) o.d. pre-galvanized steel tubing and 3 mm (11 gauge) pre-galvanized sheet steel. After fabrication all parts shall be painted per PPLT PAINT Specification. Ropes shall be fabricated from rope consisting of six galvanized steel cables (2.5 mm O.D. each) twisted together and wrapped with 6mm of high strength polyester fiber. NU-EDGE CURVED ROOF shall have beams made from NATURTEK material formed into the shape of curved architectural beams. They will be assembled using 51 mm (2) 11gauge square tubing which shall be painted per PPLT PAINT Specification. The roof support posts shall be constructed from 127 mm (5) OD pre-galvanized tubing and shall be painted per PPLT PAINT Specification. The roof skin shall be corrugated 29 gauge galvanized sheet steel assembled with aluminum edge trim. NATURTEK material is a Polyester Composite: Color impregnated, UV stabilized, non-mold-supporting, formed from virgin corrosion-resistant polyester resin; with 1/2- to 3/4- inch (12 to 18 mm) wall thickness, with the following characteristics: Flexural Strength, ASTM D 790: 18,000 psi. ; Tensile Strength, ASTM D 638: 9,000 psi. ; Compressive Strength, ASTM D 695: 17,000 psi.; Barcol Hardness, ASTM D 2583: 40 minimum. Slide barrier and spacer for slide barrier shall be CNC routed from HDPE sheet. Plates for mounting the slide barrier shall be 8mm (3/8) thick steel plate.

2.3.15.25 PARACHUTE PANEL shall be fabricated from a combination of 33.4 mm (1.312") O.D. pre-galvanized steel tubing and a laser cut plate fabricated from 3.0 mm (11 gauge) pre-galvanized sheet steel. Side plates shall also be fabricated from 3 mm (11 gauge) pre-galvanized sheet steel. Parachute/shape sliding pieces shall be CNC routed from 13 mm (1/2") high density polyethylene sheet and assembled allowing for easy motion up and down the grooves. Prior to assembly, panel shall be painted per PPLT PAINT Specification.

2.3.15.26 QUANTUM II SPIRAL SLIDE SECTIONS shall be rotationally molded per PPLT ROTO Specification and bolt together to form a single bed way slide. Slide end support shall be fabricated from 38 mm (1.5) square tubing and 4.5mm (7 gauge) pre-galvanized sheet steel. Vinyl deck shall be fabricated from punched 11 gauge hot rolled sheet steel and be a one piece all welded assembly coated per PPLT PVC Specification. Handrails to be fabricated from 13 ga 33 mm (1.315) OD pre-galvanized tubing, vertical rungs shall be fabricated from 1 X 3/4 FSO pre-galvanized steel tubing, and steel plates from 11 gauge pre-galvanized sheet. Mid support shall be fabricated from 42 mm (1.66) O.D. tubing. All steel components shall be painted per PPLT PAINT Specification.

2.3.15.27 SAFETY RAIL shall be fabricated from a combination of 33.4 mm (1.312") O.D. pre-galvanized steel tubing and 3/4 X 1 FSO pre-galvanized steel tubing. Side plates shall be fabricated from 3 mm (11 gauge) pre-galvanized sheet steel. Deck mounted safety rails shall have a bottom plate fabricated from 3 mm (11 gauge) pre-galvanized sheet steel. The Safety Rails provide a non-climbable enclosure and shall have no gaps greater than 76 mm (3") and less than 254 mm (10), especially between vertical rungs and posts. After assembly, panel shall be painted per PPLT PAINT Specification.

2.3.15.28 Shade Builder Pyramid, Sails, Hexagon and Umbrella Integrated into the Playground Product Specifications: ALL STRUCTURES ARE DESIGNED TO MEET THE REQUIREMENTS OF ASCE 7-05 (IBC 2006, IBC 2009, CBC2010) AND ASCE 7-10 (IBC 2012). LIVE LOAD 5 PSF-SNOW LOAD 10 PSF-DESIGN WIND SPEED 90 MPH (3- SEC GUST) EXPOSURE C (FROM ASCE 7-05)-DESIGN WIND SPEED 115 MPH RISK CATEGORY II (FROM ASCE 7-10) All tube shall conform to ASTM A500. Steel plate shall conform to ASTM A572, Fy = 50 KSI. All fabrication and erection of structural steel shall conform to the current edition of AISC "Specification for the Design, Fabrication and Erection of Structural Steel for Buildings". All fabrication and erection of the light gauge pipes shall conform to AISI cold-formed steel specifications. Steel welds shall conform to AWS D.1: Electrodes, Class E70XX, Low Hydrogen.

Frames are to be painted per PPLT Paint Specification. Structural Steel Columns are made of 88.9 mm (3.5) O.D. pre-galvanized tubing for PB and are made of 127 mm (5) O.D. pre-galvanized tubing for KB. Structural Steel Rafters are made of 88.9 mm (3.5) O.D. pre-galvanized tubing. Shade Panels: Fabric shade cloth has been specifically developed to produce a very strong and stable outdoor fabric for use in tension structures and shade awnings. This range offers the ultimate combination of maximum sun protection plus the strength and durability to ensure maintenance-free, long life performance. Mildew and Rot resistant, Heat and hail resistant. Maintains color in all weather conditions. High Density Polyethylene (HDPE), UV stabilized with a monofilament and lockstitch sewing construction producing a fabric that will not tear or fray if cut. Available in Standard and Fire Retardant Fabric, 6 Colors in Standard Fabric and 7 Colors in Fire Retardant Fabric. Provides shade factors up to 94% and blocks up to 95% of dangerous UV solar radiation for Standard Fabric. Provides shade factors up to 86% and blocks up to 84% of dangerous UV solar radiation for Fire Retardant Fabric. Temperature reduction of up to 30 degrees. It is recommended to remove Shade fabric prior to snowfall. Structural framing may remain in place during winter months.

2.3.15.29 SILO CLIMBERS shall be fabricated from 42.2 mm (1.66") x 11 ga, 33.4 mm (1.315) x 11ga, and 25 mm (1.0) x 16 gauge pre-galvanized steel tubing. Plates shall be fabricated from 3 mm (.12") sheet steel. Enclosures shall be fabricated from 33 mm (1.315) O.D. pre-galvanized steel tubing and 3 mm (11 gauge) pre-galvanized sheet steel. After fabrication all steel parts shall be painted per PPLT PAINT Specification.

2.3.15.30 SLIDING POLE shall be fabricated from 42.2 mm (1.66) O.D. pre-galvanized steel pipe. Enclosure shall be fabricated from 33 mm (1.315) O.D. pre-galvanized steel tubing and 3 mm (11 gauge) pre-galvanized sheet steel. Also available in post mount. After fabrication all components shall be painted per PPLT PAINT Specification.

2.3.15.31 SOLO SPINNER consists of an assembled post weldment, standoff weldment, & foot weldment along with a cast hub, machined spindle, bearings, and associated hardware. Post weldment shall be constructed from 89mm (3.5) x 11 ga. pre-galvanized tubing with 9.5mm (.375) plate. After fabrication all steel parts shall be painted per PPLT PAINT Specification. Seat shall be rotationally molded per PPLT ROTO Specification.

2.3.15.32 SQUARE VINYL CLAD METAL DECK shall cover a minimum of 1.46 square meters (2,275 square inches) of top surface area, be a

one-piece construction and be designed to maintain a full 1.2 m (48) on center post spacing. Metal decks shall be fabricated from 11 gauge hot rolled steel which shall be punched, formed and reinforced with welded in place 11 gauge strips and 7 gauge plates. Decks shall have a pattern of equally spaced holes on each edge to provide flush mounting of play events that attach to the deck. This hole pattern shall allow multiple decks to be assembled at the same level providing a surface without size limitations. This assembly shall be coated per PPLT PVC Specification.

2.3.15.33 STAND N SPIN consists of an assembled post weldment, standoff weldment, & foot weldment along with a cast hub, machined spindle, bearings, and associated hardware. Post weldment shall be constructed from 89mm (3.5) x 11 ga. tubing with 6.3mm (.25) plate, & 33mm (1.3) & 25mm (1") O.D. pre-galvanized tubing (hand support). Standoff weldment shall be constructed from 114mm (4.5) x 3 ga. tubing with 9.5mm (.375) plate. Foot weldment shall be constructed from 89mm (3.5) x 11 ga. pre-galvanized tubing with 9.5mm (.375) plate. After fabrication all steel parts shall be painted per PPLT PAINT Specification.

2.3.15.34 Standard Belt Swing Seats shall be heavy duty construction, fabricated from 70 durometer EPDM rubber with a tempered steel insert molded inside, rendering them slash proof.

2.3.15.35 STEEL POST shall be 89 mm (3.5") O.D., 11 gauge pre-galvanized round tubing. Minimum tensile strength shall be 380MPa (55,000 psi). Minimum yield point shall be 345MPa (50,000 psi). Plastic caps shall be positioned in the top of each post. Posts shall be painted per PPLT PAINT Specification.

2.3.15.36 STRAIGHT CHALLENGE LADDER shall be designed to incorporate a one-piece, welded construction to ease installation. The challenge ladder shall be designed to work between posts on 1.2 m (48) centers for the width and on 3.7 m (12'), 2.4 m (8') and 1.5 m (6') centers for the length. The challenge ladder rungs shall be fabricated from 33 mm (1.315") O.D. pre-galvanized steel tubing. The side rails shall be fabricated from 48.3 mm (1.90) O.D. pre-galvanized steel tubing. After fabrication all parts shall be painted per PPLT PAINT Specification.

2.3.15.37 The harness is comprised of stainless steel swivel hooks that are sewn to 1" black nylon webbing straps with black thread. A male and female black acetal plastic buckle is used to attach the upper and lower portions of the harness. The swivel hooks attach to 316 stainless steel anchor points secured with stainless steel ratcheting channels and steel fasteners.

2.3.15.38 THE INCLUSIVE SWING SEAT shall be rotationally molded from linear low density polyethylene with molded in graphics. Attached to the seat is a reinforced polyurethane rubber bumper. The sliding latch mechanism is constructed from 6061 machined aluminum. Swing chains shall be 4/0 straight link galvanized steel.

2.3.15.39 TRANSFER STATION WITH SAFETY RAIL shall consist of two triangular decks and step assemblies for the handrails. Each triangular deck shall be fabricated from 11 gauge sheet steel, covering .37 square meters (575 square inches) and have three 25 x 152 mm (1" x 6") hand slots incorporated into the deck surface for aid in user transition. The step assemblies provide access from the transfer decks to a 915 mm (36"), 1016 mm (40), 1220 mm (48), 1422 mm (56), 1625 mm (64) deck height. Each step shall have a tread depth of 406 mm (16") and a tread width of 953 mm (37.5"), with each rise 203 mm (8") or less. Each step assembly shall have an all welded construction from 13 gauge sheet steel. Each step assembly and Transfer Deck shall be coated per PPLT PVC Specification. Transfer Station Safety Rails shall be fabricated from 33 mm (1.315") O.D., pre-galvanized, 11 gauge tubing and 3/4 X 1 FSO pre-galvanized tubing. Safety rails shall provide an enclosure and shall have no gaps greater than 80 mm (3.15") and less than 254 mm (10"), especially between vertical rungs and posts. Transfer Station loops shall be fabricated from 42.2 mm (1.66") O.D., pre-galvanized, 10 gauge tubing. All welded handrail assemblies shall be painted per PPLT PAINT Specification.

2.3.15.40 TURNING BAR, CHINNING BAR, AND SINGLE RAIL shall be fabricated from 33 mm (1.315) O.D. galvanized steel pipe and shall be painted per PPLT PAINT Specification.

PART 3 ñ EXECUTION
NOT USED

APPENDIX B
PLAY EQUIPMENT
INSTALLATION INSTRUCTIONS



PlayPower LT Farmington, Inc.
878 E. US Hwy 60
Monett, MO 65708
1-800-325-8828

For PlayPower Internal Use Only
ORDER: OE25012798
CUSTOMER: CI07545PROJECT:
25014330

PlayArea_1 Bloomfield Parts Listing

Product line: KidBuilders

Age group: 5-12_ASTM

Components

Part Number	Description	Qty	Weight	Volume
100001134	Deck-to-deck, 205 mm (8") (brown or blue vinyl)	2.00	16.00	0.22
200006942	Balcony Deck	1.00	104.00	25.04
200006976	Double Wide Slide, 1220 mm (48")	1.00	164.00	70.02
200006993	Sliding Pole, 1625 mm (64") deck	1.00	63.00	15.00
200008193	TOOL BOX KID BUILDERS #2, S.S. (MM)	1.00	3.00	0.36
200013800	KB 136" POST PLUS W/CAP	2.00	77.00	3.10
200013812	KB 148" POST PLUS W/CAP	2.00	81.00	2.24
200013924	Safety Loop Assembly	1.00	43.00	7.04
200066522	Deck-To-Deck Steps, 815 mm (32"), w/safety rails	1.00	264.00	27.27
200079019	Leg Lift Loop	1.00	6.00	0.22
200102486	Fan Climber, 1422 mm (56") deck	1.00	141.00	48.14
200200102	Bridge, "S" Curved w/safety rails, right, 2440 mm (8')	1.00	980.00	79.39
200200237	Steel "Parachute Guy" Panel, deck mount (accent color)	1.00	49.00	6.15
200200530	KIT MAINTENANCE KB W/PAINT W/O LIST	1.00	10.00	0.00
200200663	Steel Telescope Panel KB, deck mt.	1.00	60.00	4.00
200200686	KB 186" POST PLUS W/CAP	6.00	102.00	0.00
200202280	Clock Braille Panel DKMT	1.00	45.00	1.00
200202420	Silo Climber 2400(96")	1.00	200.00	90.00
200202468	Recycled Treehouse Pod Climber 64"	1.00	165.00	32.00
200202483	KB Deck Square Large Hole 11GA	4.00	116.00	9.86
200202492	KB Deck Hex Large Hole 11GA	1.00	321.00	25.17
200202562	KB Transfer Station 1220 SFTY RL 11GA	1.00	378.00	30.58
200202733	NU-Edge Tree 64" W/KB Safety Loops	1.00	190.00	110.00
200202780	NU-Edge Arch Log Climb 1220MM(48") F/KB	1.00	150.00	9.00
200203099	KB 242" POST 5" F/SHADE	6.00	135.00	1.40
200203131	Quantum II Slide, 8' Right Spiral	1.00	210.00	162.00
200203142	KB Shade 17' Hex Fire Retardant Fabric	1.00	512.00	22.00
200203205	KB BOINGO	1.00	15.00	2.00
200203427	NU-Edge X Lumberjack Climber 64"	1.00	375.00	28.00
200203432	NU-Edge X Tower with Morphous Slide	1.00	2,300.00	800.00
200203435	Alex's lemonade stand	1.00	100.00	5.00
200203447	NU-Edge X Culvert Climber 24" KB	1.00	175.00	0.00
200203459	NU-Edge X Trail Climber 64" KB	1.00	160.00	0.00
200203574	Steering Wheel, plastic, post mount	1.00	3.00	1.30
200203685	Stax Summit Climber	1.00	462.00	74.00
HW7704-1	HRDW PKG F/CLAMP ELIMINATION S1/1	3.00	1.00	0.00

PlayArea_2

Product line: Traditional Play

Age group: 2-12_ASTM

Components

Part Number	Description	Qty	Weight	Volume
200202835	ASSY BELT SEAT F/8' SWING W/CHAIN	4.00	18.00	0.50
200203423	Generation Swing	1.00	27.00	9.00
200203433	Inclusive Swing Seat with Chains 8'	1.00	45.00	20.10
912358	INCLUSIVE 3-POINT HARNESS W/hardware	1.00	0.00	0.00
LT0963AWF R	5.00" OD 6-Unit Arch Swing Shade (Triple) with Anti Wrap	1.00	2,910.00	665.00

PlayArea_3

Product line: KidBuilders Age group: 5-12_ASTM

Components

Part Number	Description	Qty	Weight	Volume
200007097	Counter Panel, adjustable, below deck only	1.00	46.00	6.56
200013797	KB 120" POST PLUS W/CAP	1.00	67.00	2.60
200013800	KB 136" POST PLUS W/CAP	4.00	77.00	3.10
200013871	Challenge Ladder straight, 3660 mm (12')	1.00	128.00	11.38
200013892	Single-Rail Assembly	1.00	11.00	0.26
200201314	Jackhammer	1.00	60.00	10.50
200201539	Stand N Spin	1.00	118.00	19.90
200201870	Solo Spinner	1.00	38.00	3.50

PlayArea_4

Product line: Wabash PlayPower Age group: 5-12_ASTM

Components

Part Number	Description	Qty	Weight	Volume
200202614	PB 114" POST W/CAP	2.00	42.00	1.90
200203886	Unlimited Play Single Sided Communication Board	1.00	65.00	4.00

RiskSign_Included

Product line: Freestanding

Age group:

Components

Part Number	Description	Qty	Weight	Volume
787Z	RISK MANAGEMENT SIGN - ENGLISH	1.00	0.00	10.00

Additional Items

Part Number	Description	Qty	Weight	Unit Price
105295	BAG ZIPLOCK 12" X 14"	1.00	0.00	0.00
200111492	Label, Identification stamped w/rivets	1.00	0.00	0.00
200305597	14' LARGE CRATE (ASSY DOMESTIC)	5.00	385.00	0.00
925603	LABEL P/C (5 TO 12 YRS) PPLT	6.00	1.00	0.00
925960	THUMB DRIVE 2GB - PPLT	1.00	0.00	0.00
926461	LABEL GENERATION SWG, 2YR-12YR, LT	1.00	0.00	0.00
INSTALL BOOK	INSTALL BOOK FOR PP ORDERS	1.00	0.00	0.00

Total Weight: 13,851.00 lbs



Project Number: R0341250025

PlayArea: PlayArea_1 | KidBuilders

Project Name:

Project Location:

Sales Representative:

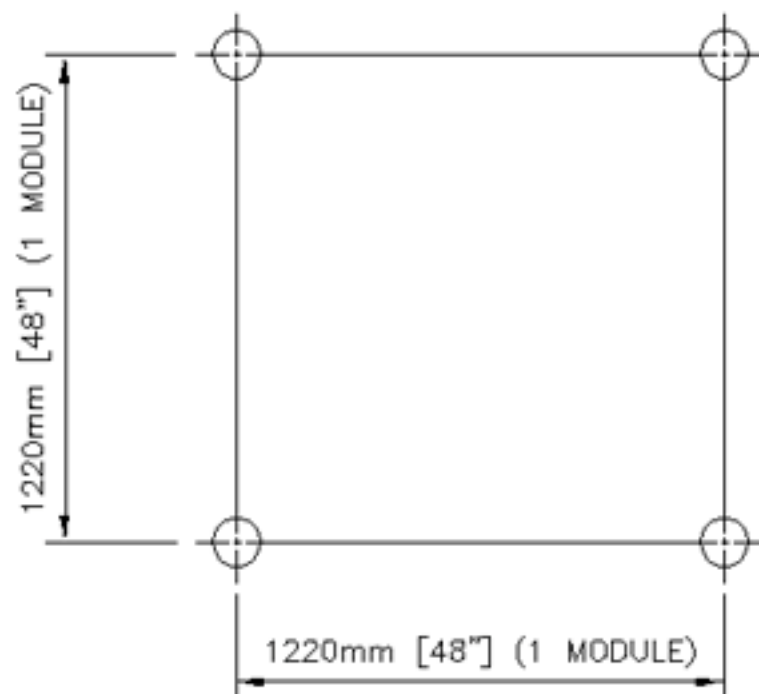
Pacific Park and Play
PO Box 1909
Huntington Beach, CA 92647
(714)846-4885
(714)8463485

Installation Instructions

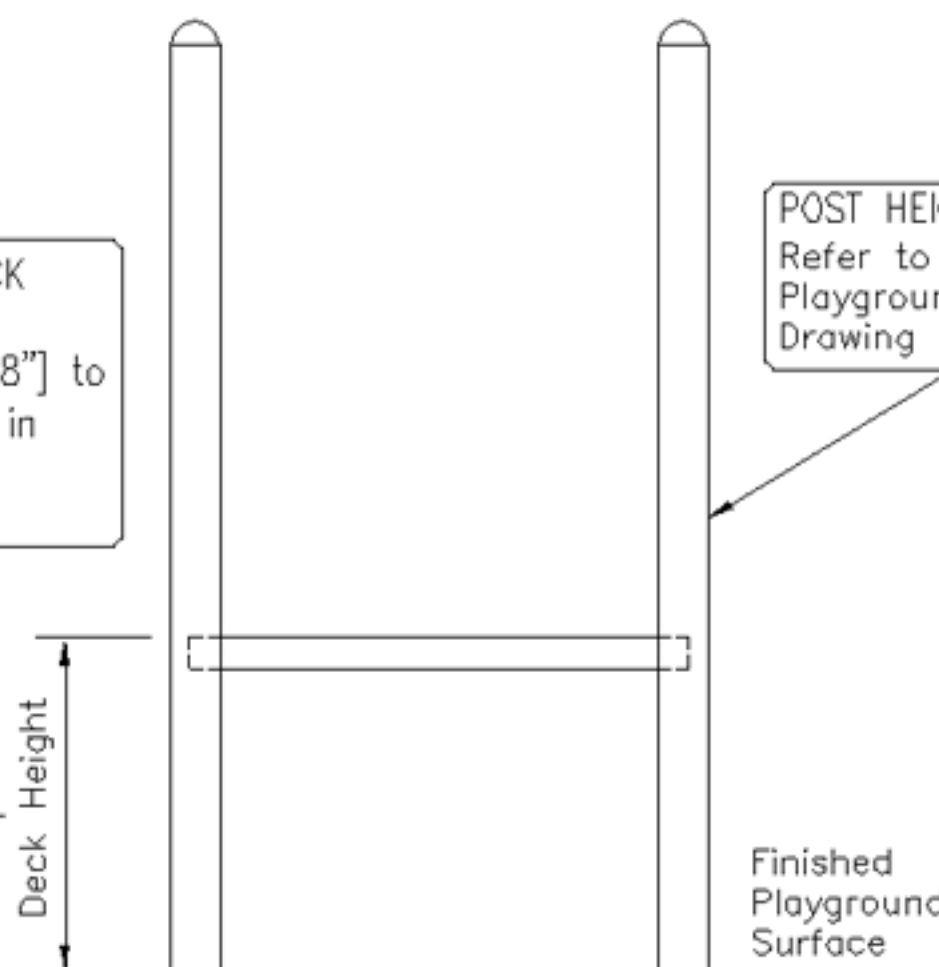
Please, read all information in this manual
before starting to install your equipment.

Date: 2/6/2025 12:00:00 AM

Posts and decks of the Kid Builders system are based on a module of 1220mm [48"] x 1220mm [48"]



STANDARD DECK HEIGHTS:
From 203mm[8"] to 2440mm[96"] in 203mm[8"] increments.



POST HEIGHTS:
Refer to
Playground Layout
Drawing

NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

BEFORE STARTING INSTALLATION OF YOUR KID BUILDERS PLAYGROUND, "PLEASE READ INSTRUCTIONS THOROUGHLY"

AUTHORIZED BY:
Chris M. MacLennan 15MAR01

SITE REQUIREMENTS:

The Kid Builder system is designed to suit a level site. Should there be any falls or slopes on the site, care should be taken to accommodate the entry and exit points and to maintain the correct heights.

The site must be checked for adverse or unusual conditions. i.e.

- 1) Exposed, cracked or loose concrete footings.
- 2) Worn, scattered or compressed surface material.
- 3) Exposed roots, rocks or other environmental obstacles that form potential trip hazards.
- 4) Broken glass, refuse, or foreign objects around and on play equipment.
- 5) Poor drainage areas.
- 6) All sites especially those close to existing buildings must be checked for electrical or gas lines and drainage before digging.

MAINTENANCE:

As the owner, it is most important that you are aware of your responsibility for the safe use of your new play equipment. It is necessary to install equipment correctly according to the installation instructions provided and inspect the equipment regularly at intervals specified within the "Maintenance Manual," located in your maintenance kit. During inspection, if any part is found to be damaged or excessively worn, equipment should immediately be put out of service while the part is replaced. Lack of "maintenance" will result in premature wear, reduced life expectancy and possible failure.

All Little Tikes Commercial Play Systems playevents have been designed and engineered to meet all applicable safety guidelines, but if installed improperly, problems may occur such as: protruding hardware, entrapment gaps between 89mm[3.5"] to 228.6mm [9"], or string entanglements. Make certain the runout heights on all slides match what is recommended on the instruction page for that model number. Any accessible bolt ends that protrude beyond the face of the nut by more than two threads should be trimmed and peened smooth by the installer. Once your installation is complete, always inspect your work. Installation must be done to the manufacturer's assembly manual and applicable safety guidelines and/or standards.

ALL CHILDREN SHOULD BE SUPERVISED WHILE PLAYING ON EQUIPMENT.

SAFETY AREAS:

The area immediately surrounding and above the play structure must be free of obstructions such as: buildings, trees, other play equipment, etc., and must be kept clear for entries, exits, traffic and falls. Make sure your site has the required surfacing and fall area designated on your Playground Layout Drawings.

INSTALLATION MANUAL:

We have tried to make this installation manual as comprehensive and factual as possible. Please note from time to time information may be changed or updated. Equipment shown or described throughout this manual may be changed. The right is reserved to make changes at any time without notice.

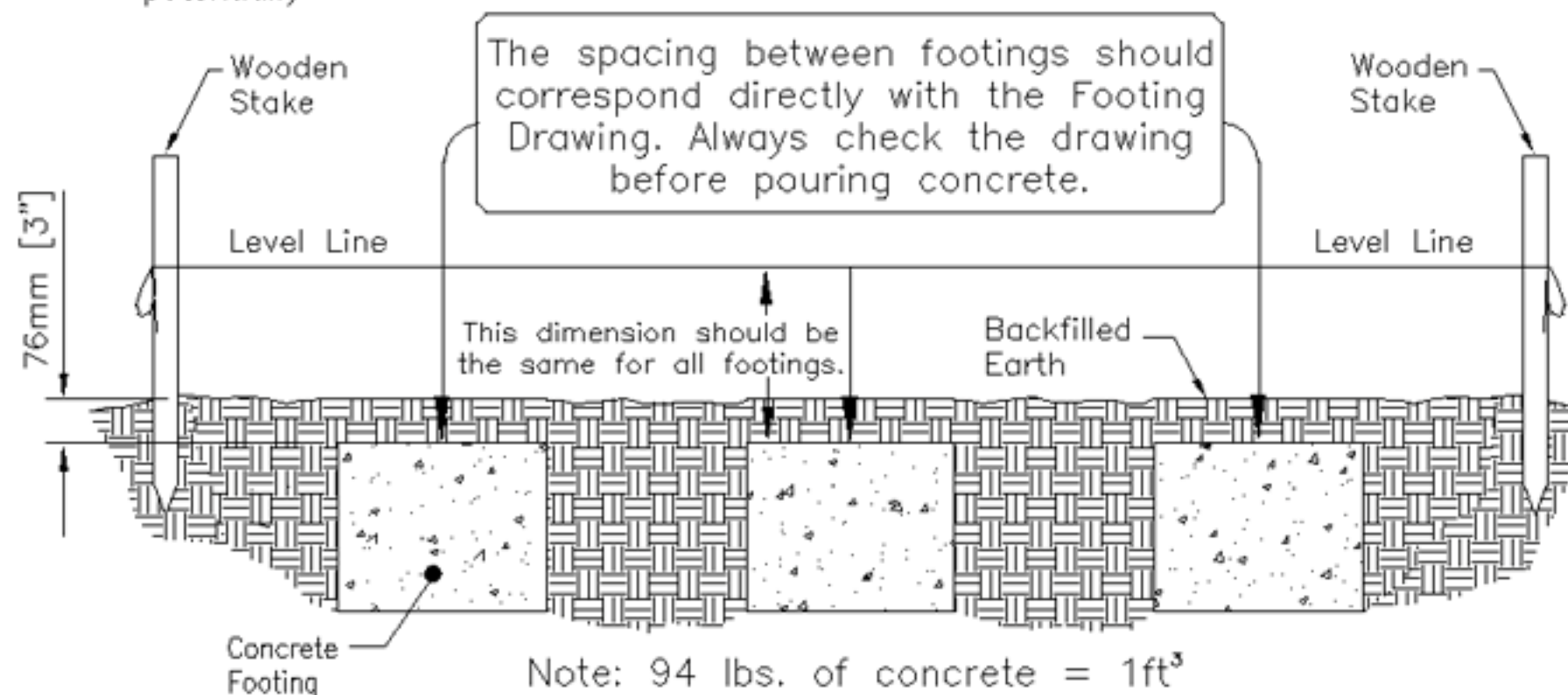
THE ORDER OF ASSEMBLY:

- 1) Prepare your site. (Consideration is necessary for installing the talk tube on a structure. See Site Preparation Guidelines, or Talk Tube instructions for details.)
- 2) If you are using an Anchor bolt, you will need to pour concrete at least 48 hours in advance. Do not leave any open holes overnight. (Never leave a structure overnight in a potentially hazardous condition, i.e. open footing holes, open decks, exposed concrete, without roping off the area and posting warning signs. It is always best if the construction is scheduled such that the entire installation can be performed in one day, however, with larger structures this may be difficult.)
- 3) Start with the lowest deck and four posts. Calculate the location of the deck top on the first post by adding 991 [39"] to the deck height. Mark the post then install as shown. (See Square Deck installation instructions for further details. THE INSTALLATION OF THE FIRST DECK IS CRITICAL TO PROPERLY INSTALLING THIS EQUIPMENT, SO MAKE SURE THE POSTS AND DECK ARE AT THE PROPER HEIGHT AND ARE PLUMB AND LEVEL.
- 4) Place this assembly in the footings. If you are sure the first deck assembly is correctly positioned, you may pour the four post footings at this time to help stabilize the structure. If installing the Surface Mount method, move the assembly to the proper location. Use the feet as templates, drill bolt holes and secure the structure to the footings.
- 5) If a Deck to Deck Plate, Ladder Panel, or Interstep Deck are to be attached to the first deck, assemble the bottom edge to the deck edge. See individual instructions for details.
- 6) Attach the next deck to two posts and move the posts into the footing holes and level the deck. Attach the two open corners of the deck to the previous deck assembly posts. Finish installing the deck to deck attachment by assembling it to the edge of the upper deck.
- 7) Attach any structure linking events or overheads to the deck assemblies, such as Crawl Tunnels, Clatter Bridges, Burmese Bridges, Suspension Bridges, Challenge Ladders, etc. Continue to add the remaining decks and deck attachments to the existing structure until all platforms are in place.
- 8) Make sure the structure is level and the decks are at the proper height. Install any roofs or enclosures.
- 9) Install all remaining events.
- 10) Tighten all hardware and install clamp drive pins. Be sure to use as many as the instructions call out.
- 11) Place warning labels on the structure. Inspect playground for protruding hardware, entrapment gaps between 89mm [3-1/2"] to 229mm [9"], and string entanglements. Make sure the runout heights on all slides match what is recommended on the instruction page for that model number. Any accessible exposed bolt ends that protrude beyond the face of the nut more than two threads should be trimmed and peened by the installer.
- 12) Install resilient surfacing on the entire "use zone".

MAKING LEVEL FOOTINGS:

By using wooden stakes and stringing a level line, you can determine the proper height for your concrete. If available, a surveyor's transit will also be helpful.

Determine ground level at the lowest footing location and pour concrete in this location first. This level will be your datum plane. (The point at which all other footing heights are referenced from.) Pour the rest of the footings up to 76mm[3"] from the level of the datum plane. Make sure that all measurements from the top of the poured footing to the level line are the same. (Hint: If installing a surface mount structure, concrete should be poured at least 48 hours in advance of the playground being installed to ensure maximum holding potential.)



Note: 94 lbs. of concrete = 1ft³
207 grams = 0.041m³

If installing with the Inground method, you must always backfill footings with at least 76mm[3"] of earth after concrete has cured (not shown).

SUGGESTED TOOLS:

- | | |
|---------------------------------------|----------------------------------|
| - 2 Magnetic Levels | - Extension Cords |
| - 1 1220[48"] Carpenter's Level | - Water Supply/Garden Hose |
| - 2 Measuring Tapes | - Wooden Stakes |
| - 1 Felt Tip Pen | - Concrete (in some cases) |
| - 1 Sledge Hammer or Rubber Mallet | - Some sort of digging equipment |
| - 1 610mm-915mm [24"-36"] Bolt Cutter | - Transit |
| - 1 Roll of String | - Adjustable Wrenches |
| - Ratchets for M10 Torx Service Drive | - Metric Socket Set |
| - Electric Drill | - Various Drill Bits |
| - C-Clamps | - Wheel Barrow |
| - Saw Horses | - Ladders |
| - Resilient Ground Cover | - Generator/ Power Source |



WARNING

INSTALLATION OVER A HARD SURFACE SUCH AS CONCRETE, ASPHALT, OR PACKED EARTH MAY RESULT IN SERIOUS INJURY OR DEATH FROM FALLS.

L'INSTALLATION SUR SURFACE DURE TELLE QUE DU CIMENT, DE L'ASPHALTE OU DE LA TERRE BATTUE PEUT CAUSER DE SERIEUSES BLESSURES OU MEME LA MORT EN CAS DE CHUTE.

INSTALACION SOBRE UNA SUPERFICIE DURA, TAL COMO CONCRETO, ASFALTO O TERRENO COMPACTADO, PUEDE PROVOCAR QUE UNA CAIDA CAUSE LESIONES SERIAS O INCLUSO LA MUERTE.

Little Tikes Commercial Play Systems Inc.
P.O. Box 897
Farmington, MO 63640

For more information, call Little Tikes
Commercial Play Systems Inc.
at 1-888-458-2737 or 1-573-756-4591

← This label has been provided by Little Tikes Commercial Play Systems Inc. for the purpose of informing the user of the safety risk involved if a fall onto a hard surface occurs.

It is important when installing your play equipment to display this label in a prominent location on each structure.

This label should be placed such that it will:

(1) Be readily visible to the intended viewer and,

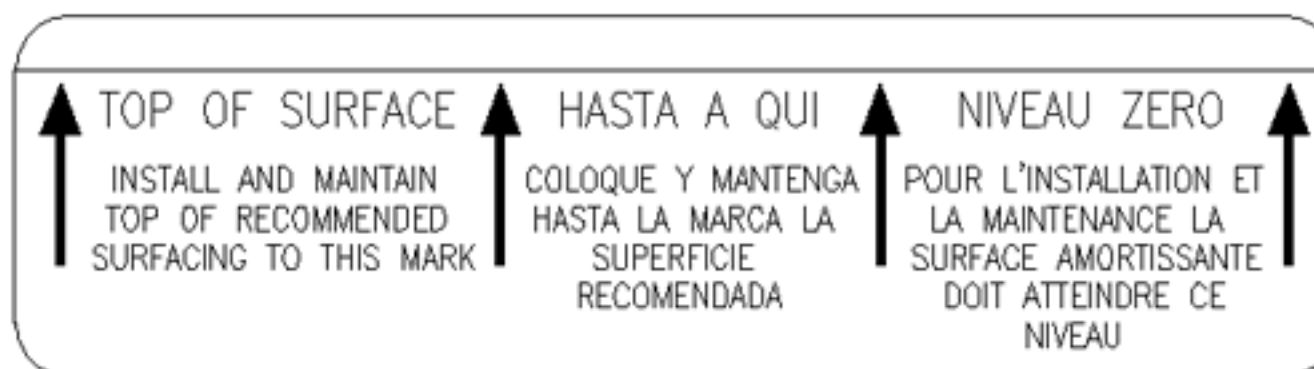
(2) Alert the viewer to the potential hazard in time to take appropriate action.

Do not place this label in a high traffic area or in a location of excessive wear. If the label becomes illegible, destroyed, or removed, it is necessary for the operator to replace the label as soon as possible.

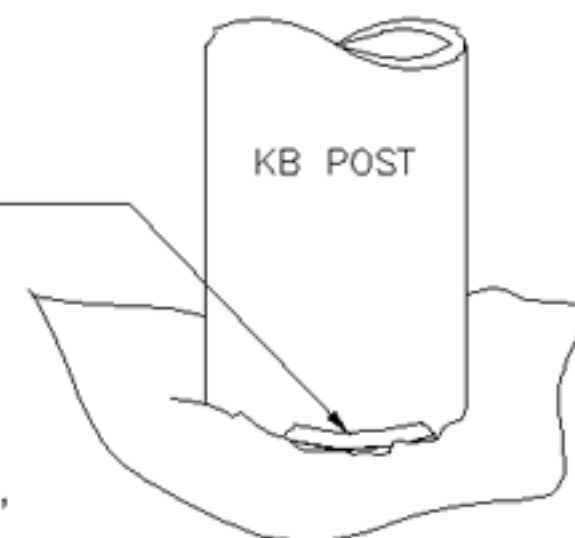
SLIDE INSTALLATION:

Due to manufacturing variability, the actual slide footing dimensions may vary from the installation instruction dimensions by as much as 50mm [2"]. Actual footing locations should be determined by positioning assembled equipment.

If you are in need of Material Safety Data Sheets pertaining to the use and handling of any maintenance materials such as touch-up paint, vinyl repair kits or for product such as, Kid Tiles adhesive or urethane top coatings, please contact our Customer Service Department at 1(800)325-8828. They will be able to provide you with the information you require.

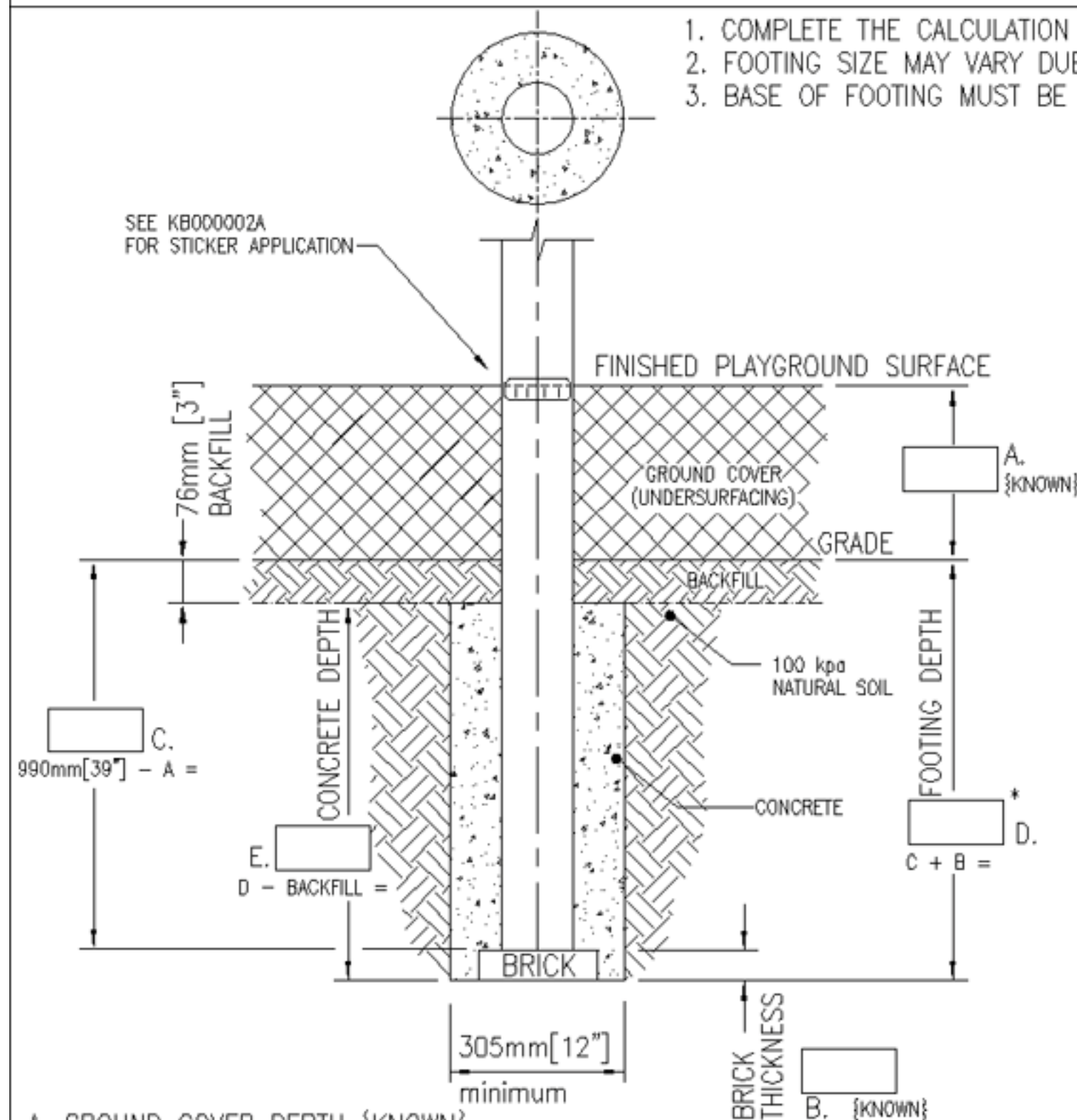


The sticker shown here has been provided to assist with the maintenance of your ground cover. After installing the ground cover, these stickers should be placed on the post by the installer (as shown). Peel the backing away from the sticker and attach it to the post so that the line is level with the top of your ground cover. As erosion or compaction of surfacing occurs, the line will be visible. This will indicate that it is time to add material to your surfacing.



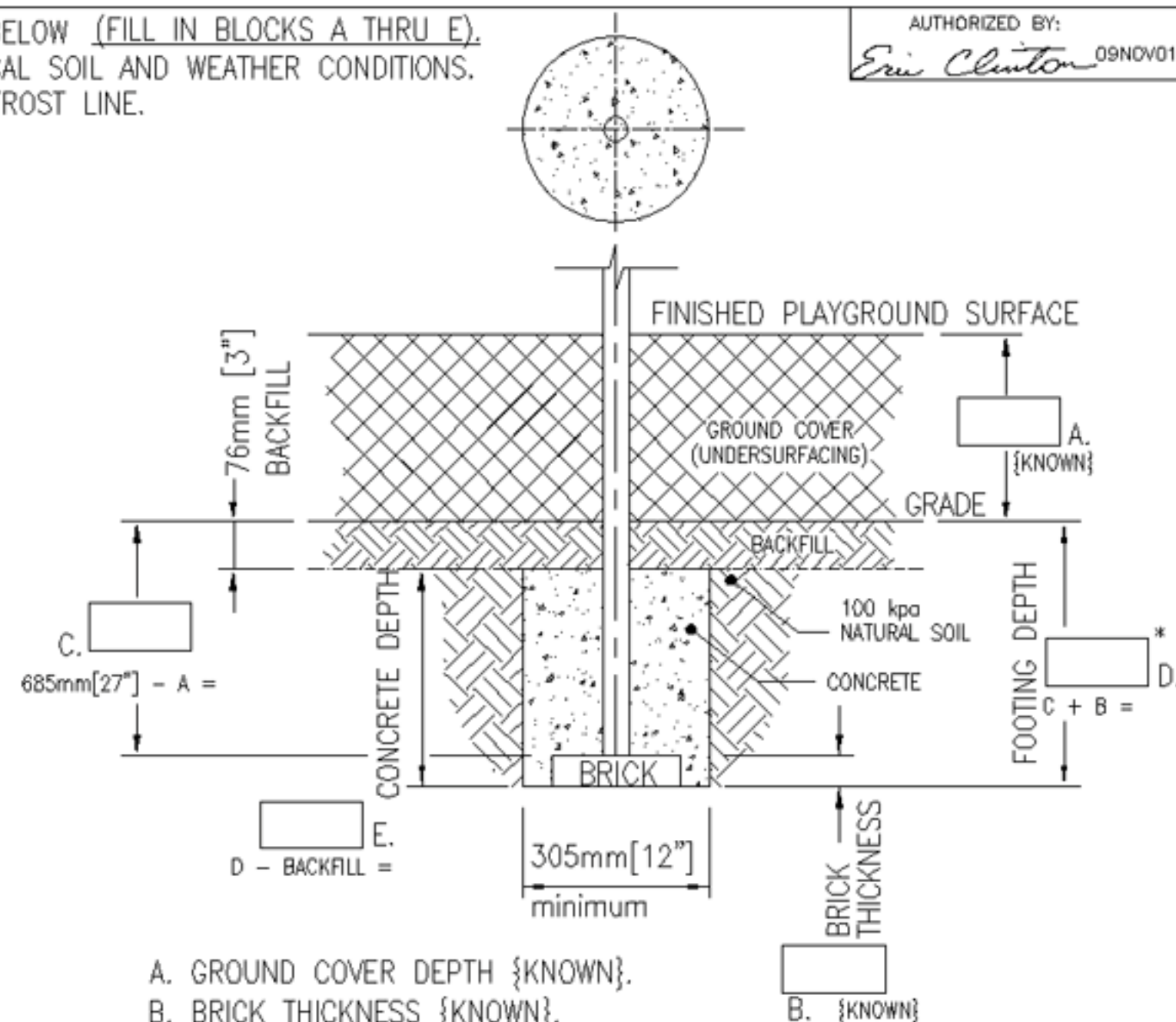
1. COMPLETE THE CALCULATION SHEET BELOW (FILL IN BLOCKS A THRU E).
2. FOOTING SIZE MAY VARY DUE TO LOCAL SOIL AND WEATHER CONDITIONS.
3. BASE OF FOOTING MUST BE BELOW FROST LINE.

SEE KB000002A
FOR STICKER APPLICATION



- A. GROUND COVER DEPTH {KNOWN}.
- B. BRICK THICKNESS {KNOWN}.
- C. $990\text{mm}[39"] - A$ BECAUSE $A + C$ SHOULD ALWAYS EQUAL $990\text{mm}[39"]$
- D. FOOTING DEPTH = $[C] + \text{BRICK THICKNESS}$.
- *MINIMUM $610\text{mm}[24"] + \text{BRICK THICKNESS}$ FOOTING DEPTH REQUIRED
- E. CONCRETE DEPTH = FOOTING DEPTH $[D] - 76\text{mm}[3"]$ (BACKFILL).

KB POST FOOTING - INGROUND



- A. GROUND COVER DEPTH {KNOWN}.
- B. BRICK THICKNESS {KNOWN}.
- C. $685\text{mm}[27"] - A$
- BECAUSE $A + C$ SHOULD ALWAYS EQUAL $685\text{mm}[27"]$
- D. FOOTING DEPTH = $[C] + \text{BRICK THICKNESS}$.
- *MINIMUM $305\text{mm}[12"] + \text{BRICK THICKNESS}$ FOOTING DEPTH REQUIRED
- E. CONCRETE DEPTH = FOOTING DEPTH $[D] - 76\text{mm}[3"]$ (BACKFILL).

KB PLAYEVENT FOOTING - INGROUND

HOW MUCH CONCRETE?

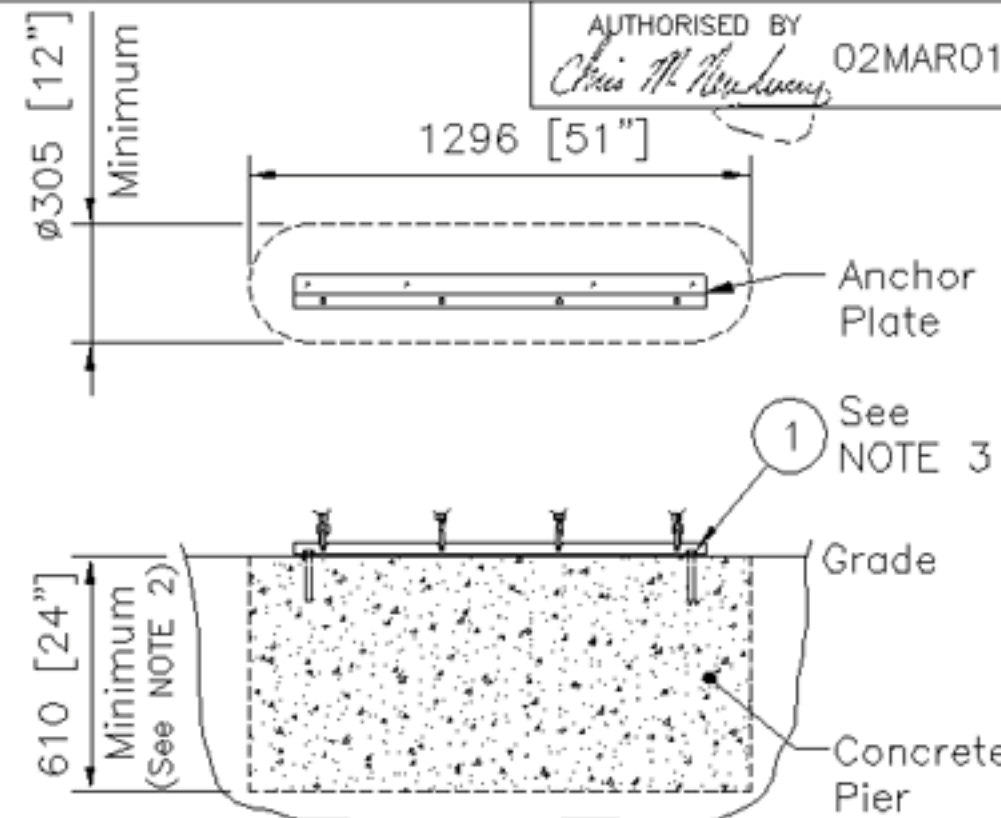
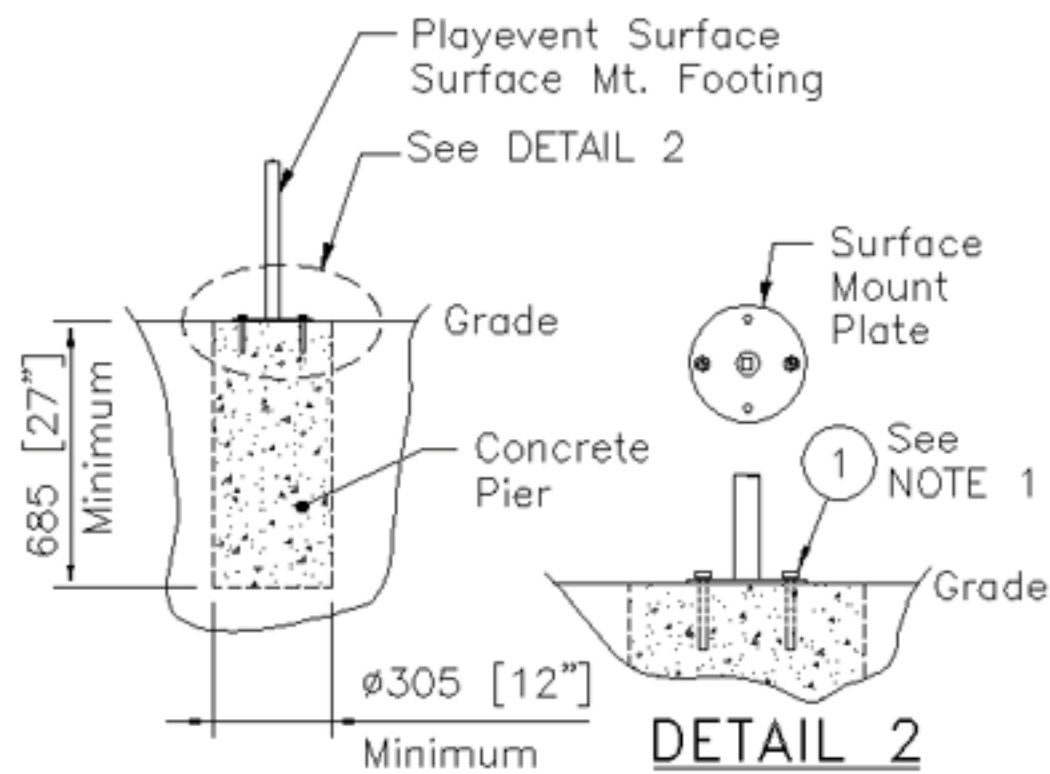
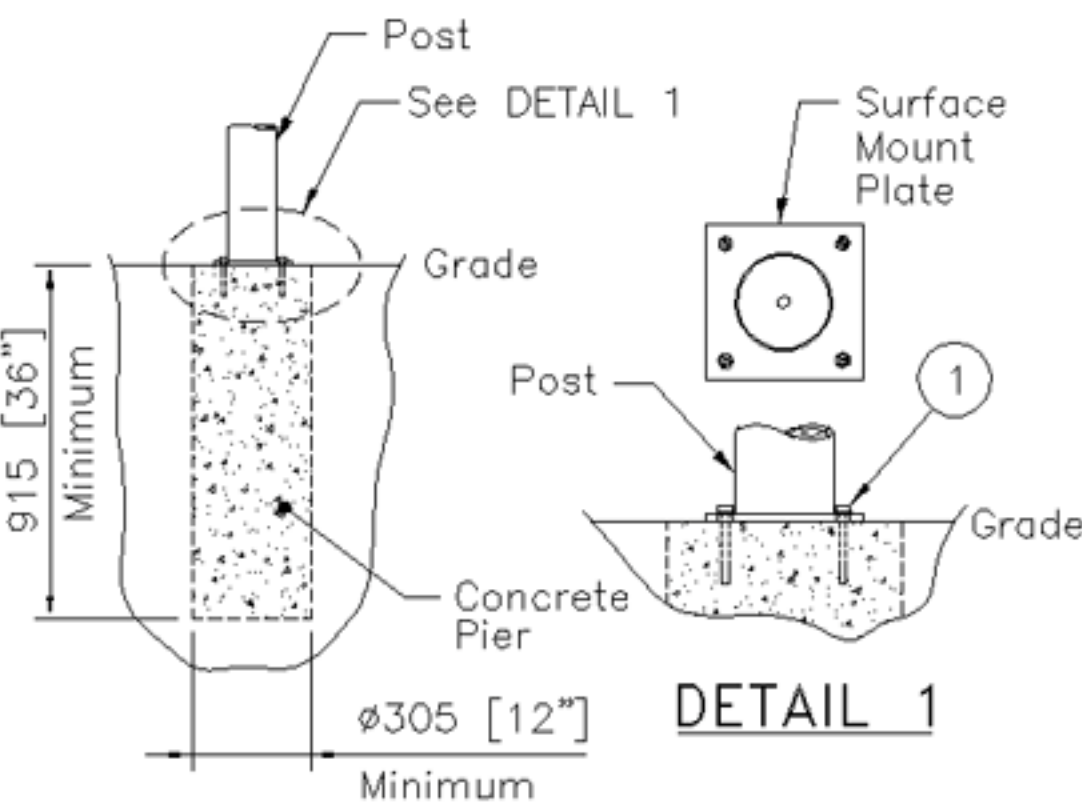
VOLUME OF CONCRETE REQUIRED FOR FOOTINGS:

$$= 0.067 \text{ M}^3 \times \frac{\text{CONCRETE DEPTH (mm)}}{915} \times \text{No. OF FOOTING HOLES} = \text{M}^3$$

$$= 0.087 \text{ Yard}^3 \times \frac{\text{CONCRETE DEPTH (IN)}}{36} \times \text{No. OF FOOTING HOLES} = \text{Yard}^3$$

NOTES: - TO CALCULATE CUBIC FEET, MULTIPLY CUBIC YARD BY 27
- 94 lbs OF CONCRETE = 1 CUBIC FOOT.

OPTION 1: PIER



NOTE 1: Two per plate, diagonally located.

NOTE 2: Depth is less than round anchor because of extra volume of concrete.

NOTE 3: Anchor bolts shown on ends, but can be moved to other holes if necessary for accessibility.

Round Anchor

Anchor Plate

Post Footing Parts List (Surf. Mt. Anchor)			
Item	Dwg Ref	Description	Qty.
1	200001776	ANCHOR CONCRETE WEDGE M10 X 1.50 X 100MM	4

Post Footing

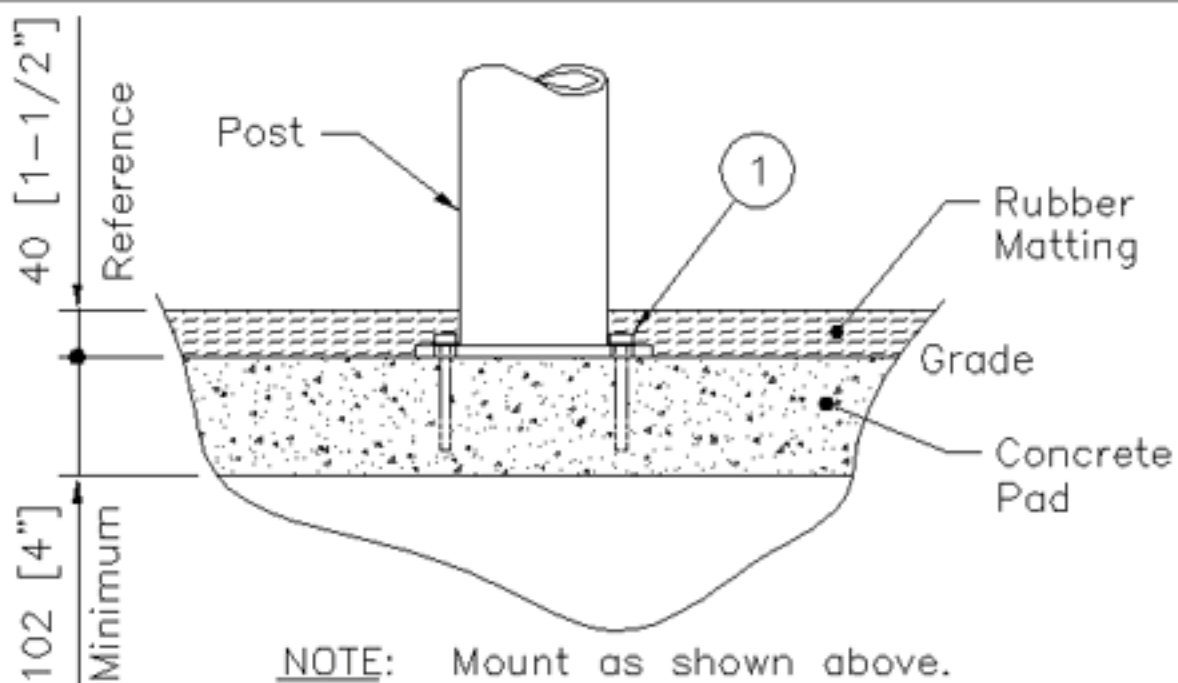
Playevent Footing Parts List (Surf. Mt. Anchor)			
Item	Dwg Ref	Description	Qty.
1	200001776	ANCHOR CONCRETE WEDGE M10 X 1.50 X 100MM	2

Playevent Footing

OPTION 2: CONCRETE PAD

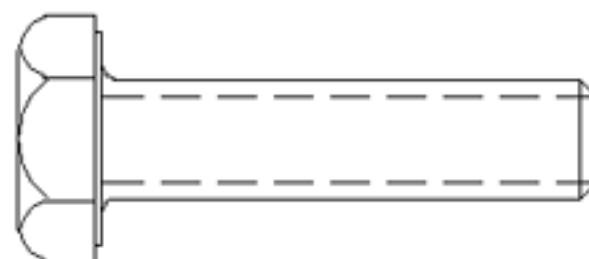
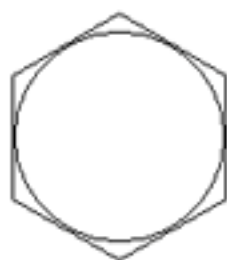
NOTE 4: Concrete may require up to 3 days to cure.

NOTE 5: A 3/8" Masonry bit is required to install anchor bolts.

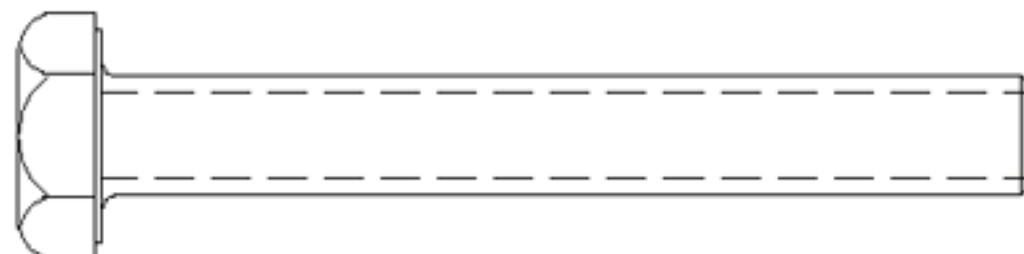
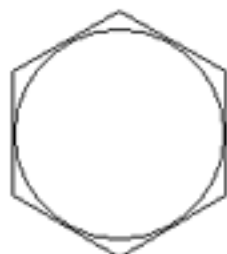


NOTE: Mount as shown above.

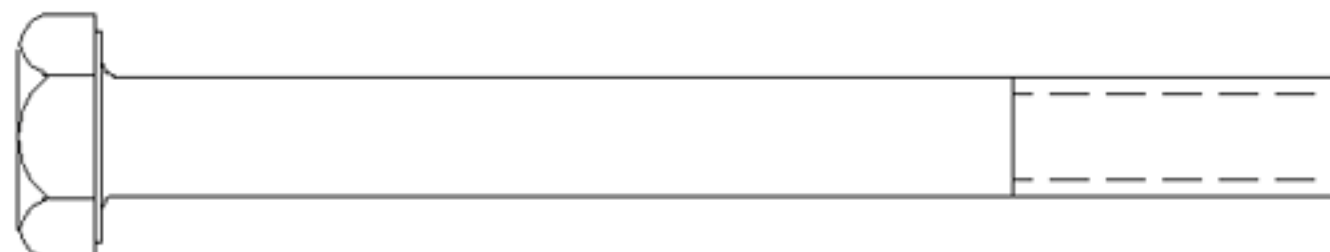
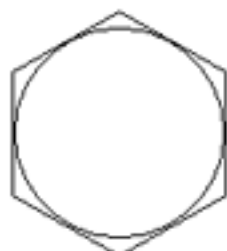
200001850
CAP SCREW HEX HEAD M10 x 1.50 x 40mm



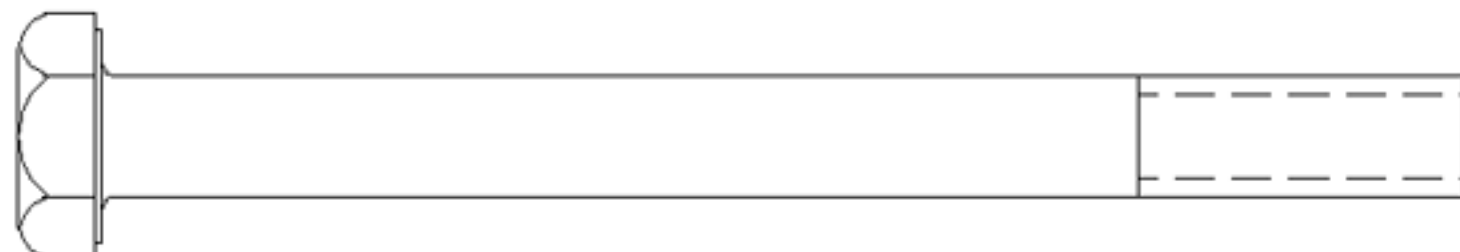
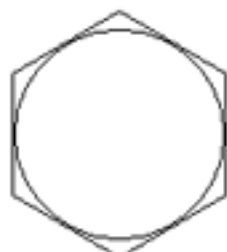
200001859
CAP SCREW HEX HEAD M10 x 1.50 x 75mm



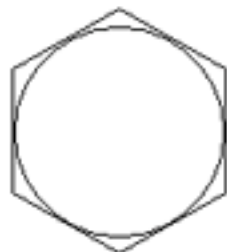
200001866
CAP SCREW HEX HEAD M10 x 1.50 x 100mm



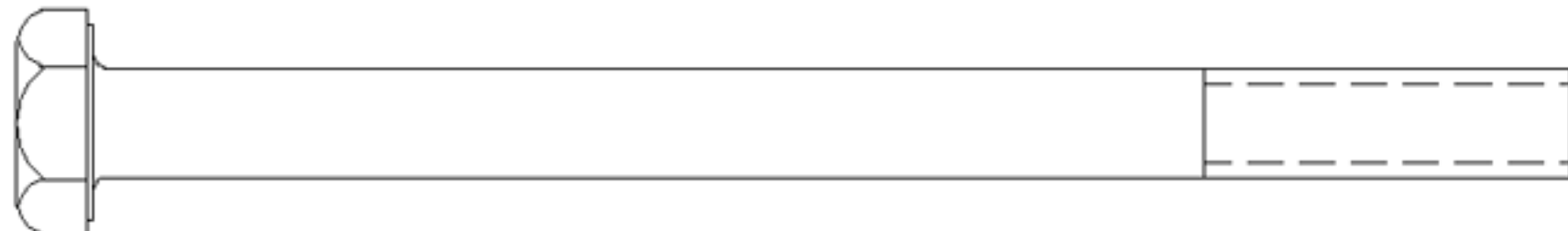
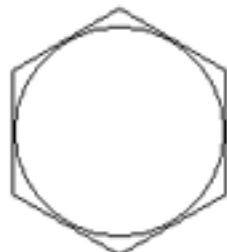
200001875
CAP SCREW HEX HEAD M10 x 1.50 x 110mm



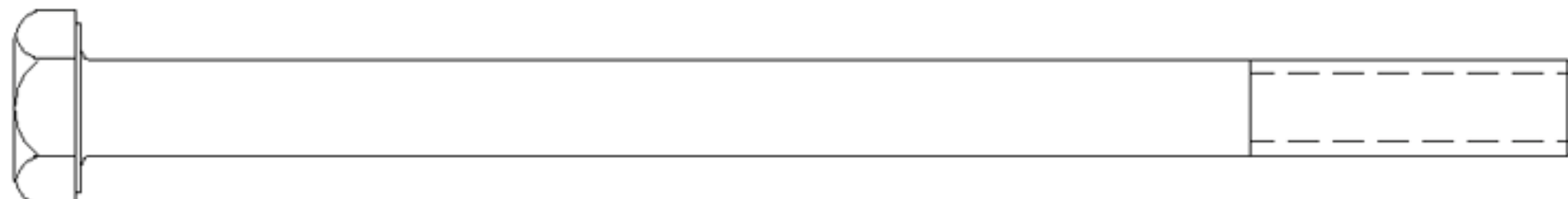
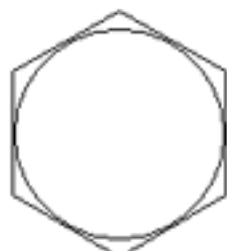
200001879
CAP SCREW HEX HEAD M10 x 1.50 x 120mm

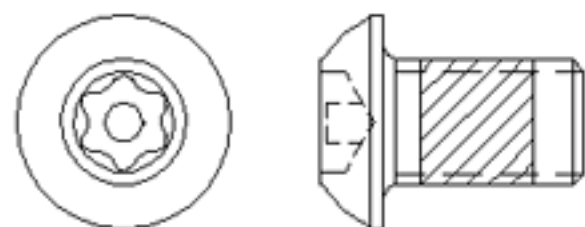


200001883
CAP SCREW HEX HEAD M10 x 1.50 x 130mm



200000792
CAP SCREW HEX HEAD M10 x 1.50 x 150mm

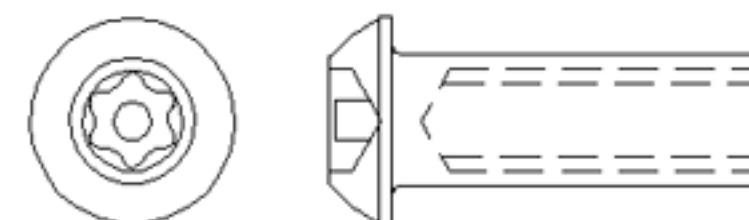




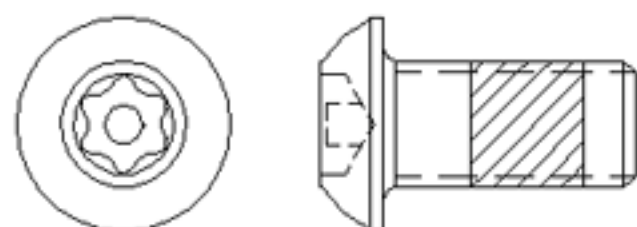
200002010
SCREW MACH BUTTONHEAD M10 x 1.50 x 16mm



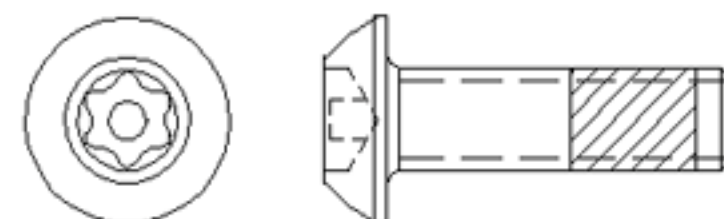
200002150
SCREW MACH BUTTONHEAD M10 x 1.50 x 55mm



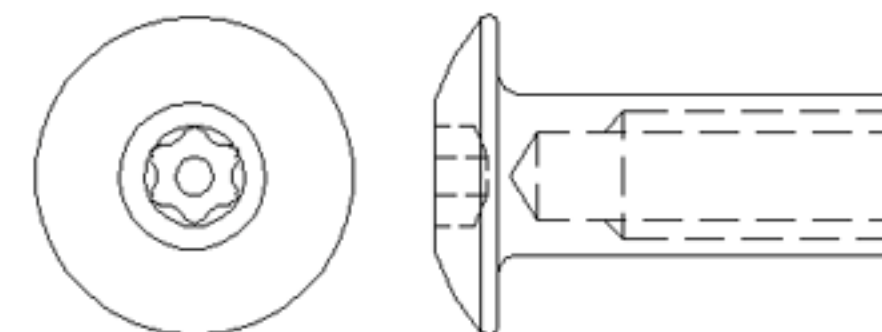
200002145
BOLT M8 x 1.25 FEMALE 10.3 x 30mm



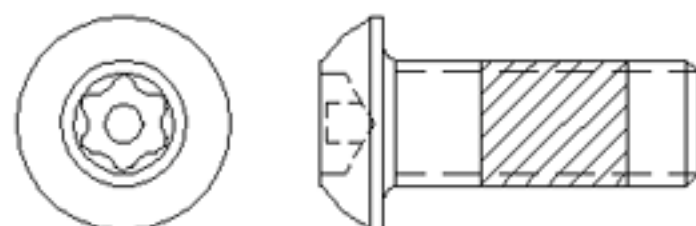
200002014
SCREW MACH BUTTONHEAD M10 x 1.50 x 20mm



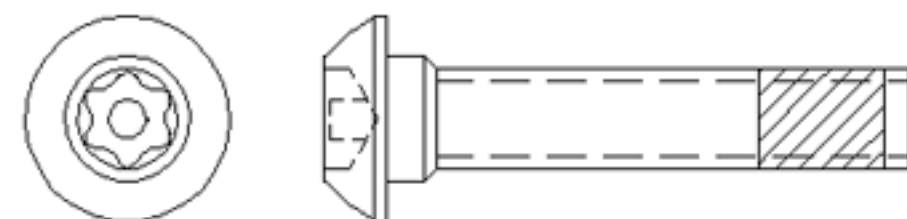
200002133
BOLT M8 x 1.25 MALE 27.5mm



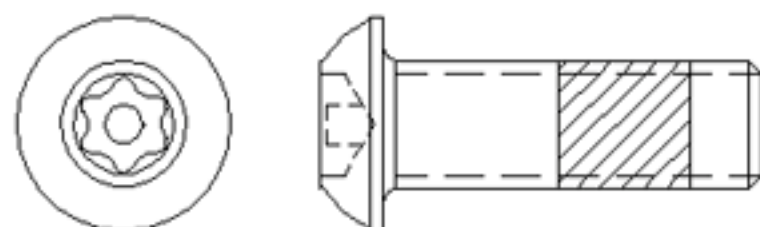
200001954
BARREL NUT M10 X 1.50 (12.70 DIA x 32mm)



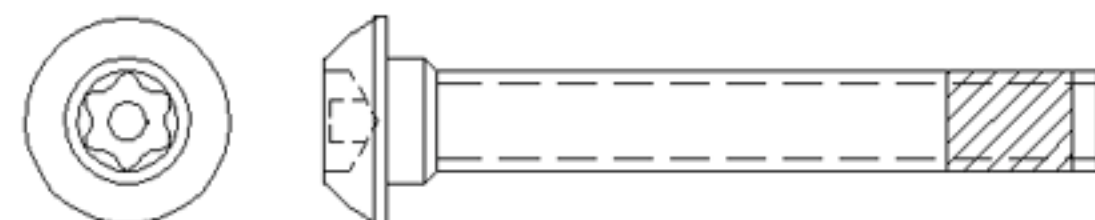
200002018
SCREW MACH BUTTONHEAD M10 x 1.50 x 25mm



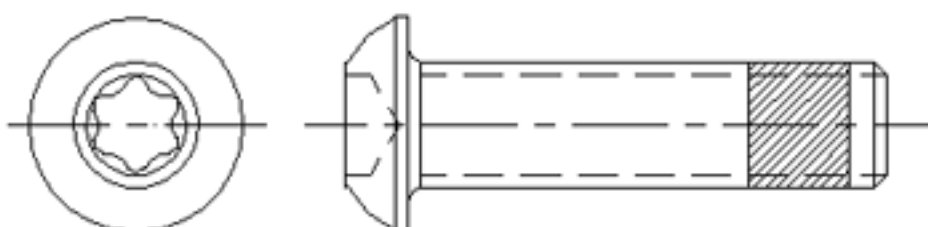
200002138
BOLT M8 x 1.25 MALE 42.5mm



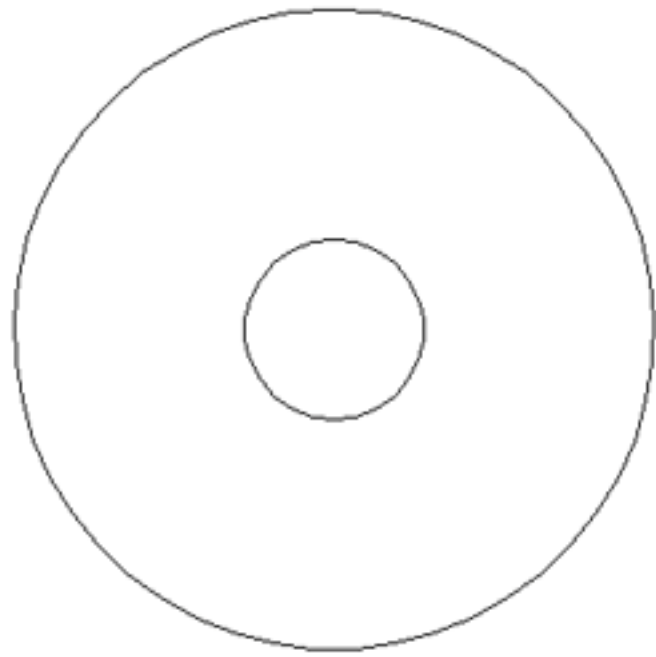
200002030
SCREW MACH BUTTONHEAD M10 x 1.50 x 30mm



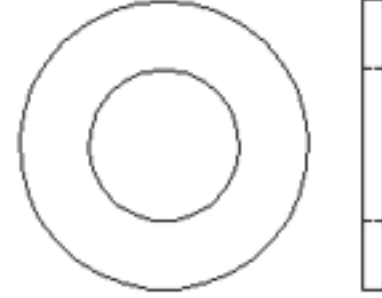
200002142
BOLT M8 x 1.25 MALE 57.5mm



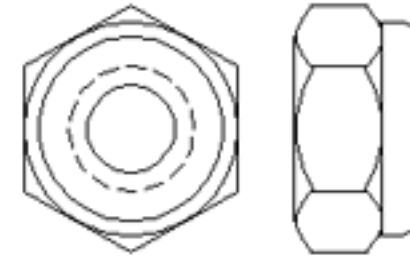
200097726
SCREW MACH BUTTONHEAD M10 x 1.50 x 38mm



200002079
WASHER FLAT M11 23 x 12 X 1.6mm



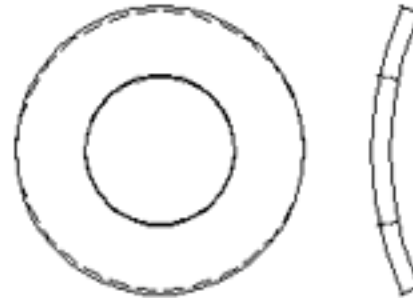
200001945
NUT LOCK HEX NYLON INSERTED M10 x 1.5



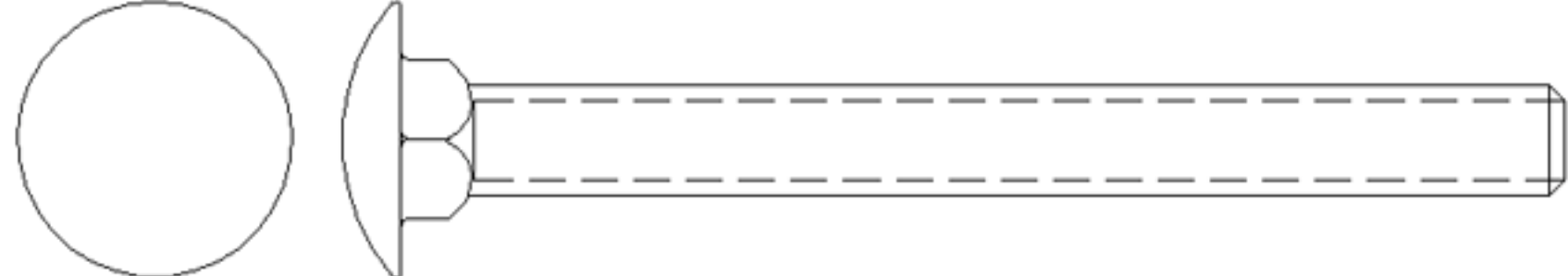
200002002
SCREW DRILL HEX HEAD M6 .3 x 1.81 x 65mm



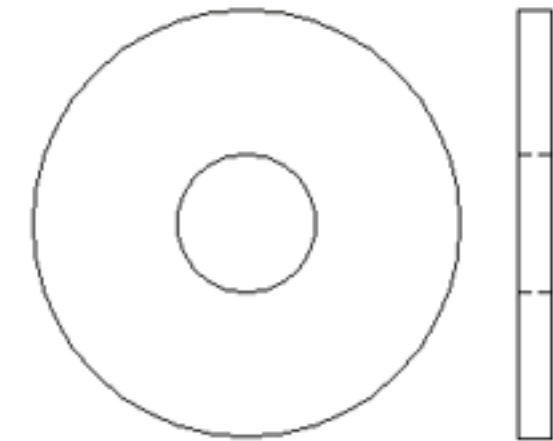
200008483
WASHER BOWED M11 23.5 x 11.7 x 1.57 mm



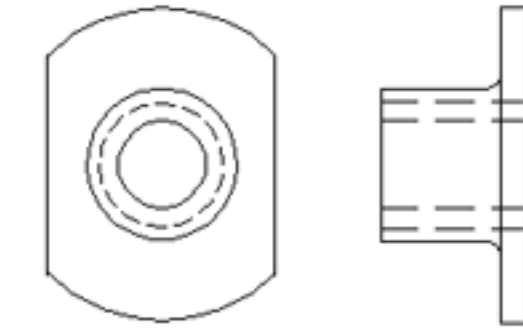
200001810
BOLT CARRIAGE M10 x 1.50 x 100mm



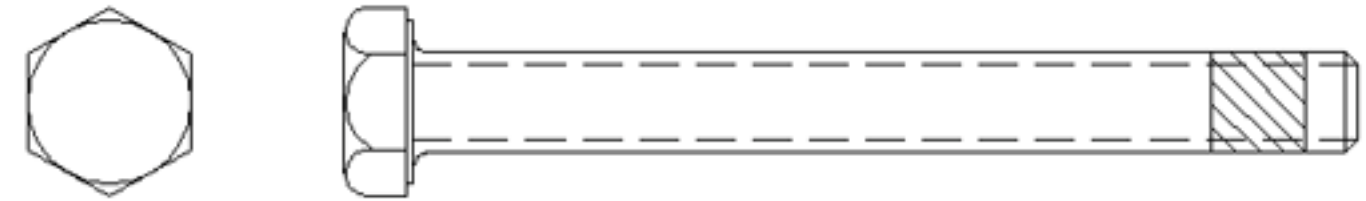
200002113
WASHER FLAT M12 (51 x 14.5 x 2mm)



200001966
T-NUT SLAB BASE M10 x 1.50 x 9.5mm



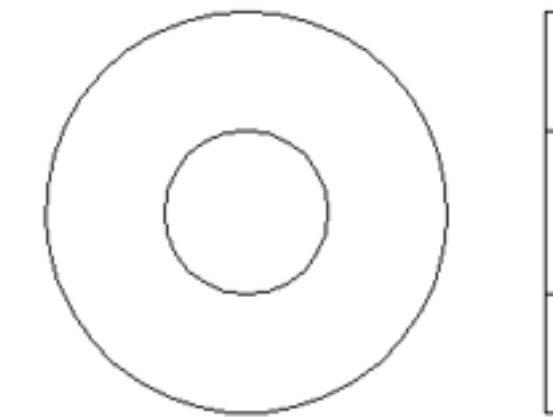
200001826
CAP SCREW HEX HEAD M8 X 1.25 X 75mm



200002096
WASHER FLAT M10 34OD x 11ID x 3 mm THK



200001986
SCREW U-DRIVE ROUND HEAD M5 x 16mm



200001776
ANCHOR CONCRETE WEDGE M10 x 1.5 x 100mm



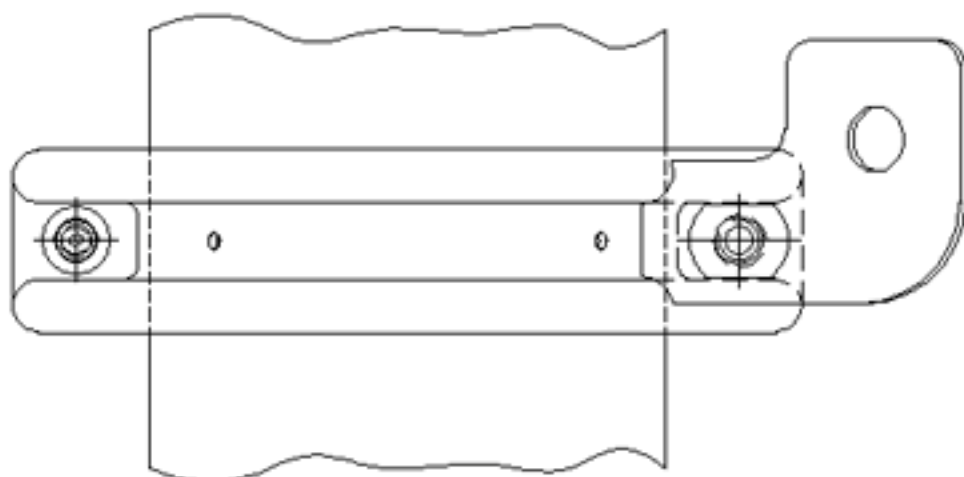
200001934
NUT LOCK HEX NYLON INSERTED M8 x 1.25



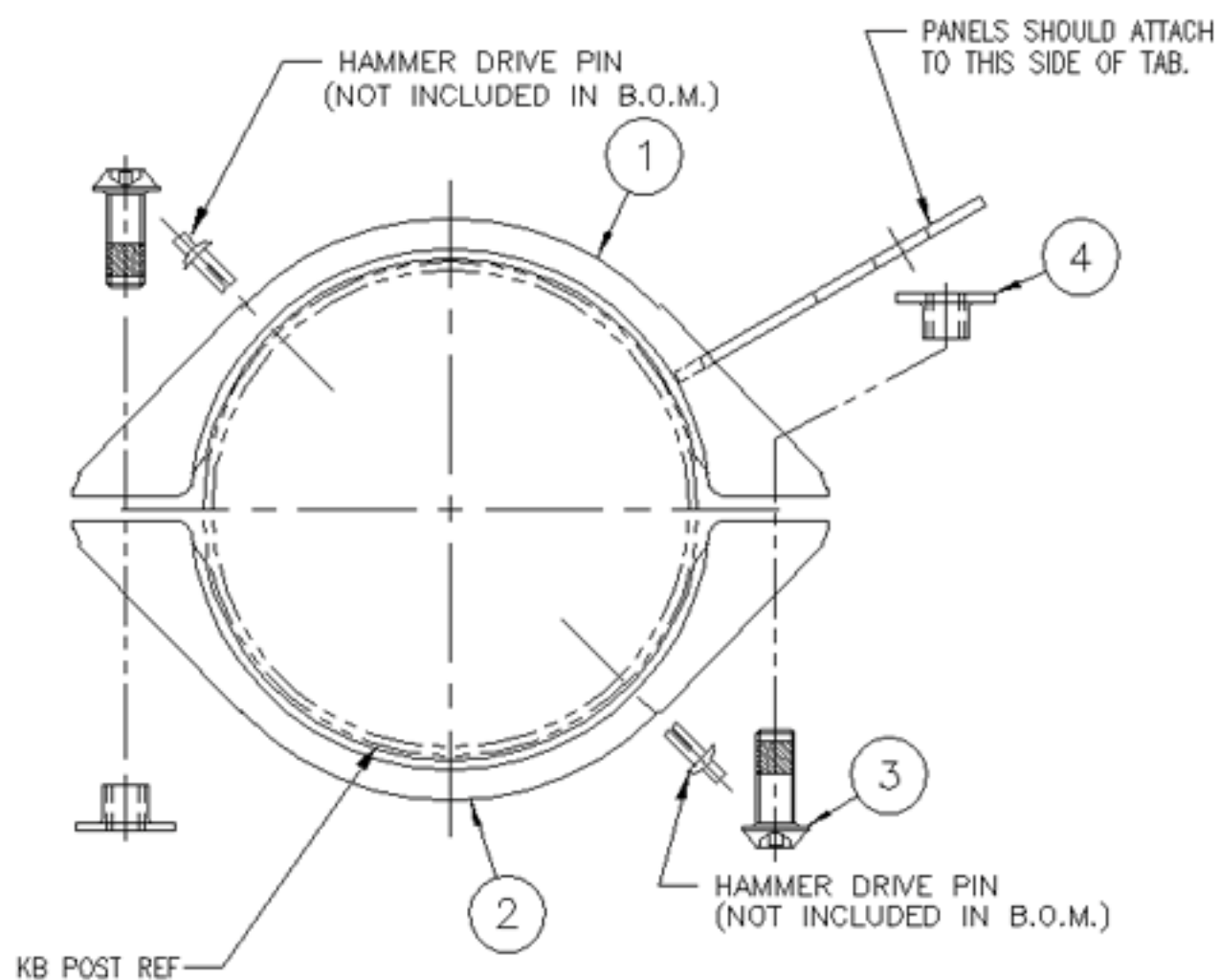
200002100
WASHER FLAT M11 32OD x 13ID x 2 mm THK



CLAMP HI-LO TAB F/KB



NOTE:
TAB WILL BE DIRECTED
UP (AS SHOWN) ON ONE
SIDE OF THE PANEL AND
DOWN ON THE OTHER
SIDE OF THE PANEL



[NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS]

KB000009A

AUTHORIZED BY:

Raymond 03AUG99

CLAMP HI-LO TAB F/KB

200079200

CLAMP HI-LO TAB F/KB

Item	Dwg Ref	Description	Qty.
1	-	CLAMP HI-LO TAB F/ KB	1
2	-	CLAMP HALF W/O WELDED ATTACHMENT	1
3	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	2
4	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5MM	2

Application

- FOR USE WHEN HIGH-LOW CLAMP CONFIGURATION IS NEEDED TO ATTACH PANELS.

Maintenance

- CHECK ALL HARDWARE
- TOUCH UP ANY MARRED PAINT SURFACE

Specifications

CLAMP

MATERIAL: STAMPED SHST
COLOR: AS SELECTED FROM STD. COLOR RANGE.
FINISH: ELECTROSTATICALLY APPLIED POLYESTER
DRY POWDER COAT

FASTENERS

FINISH: STAINLESS STEEL

Installation Instructions

1. POSITION THE CLAMP HALVES AROUND THE POST AND LOOSELY CONNECT HALVES TOGETHER WITH THE HARDWARE SHOWN. CLAMPS SHOULD BE ORIENTED SO THAT PANELS WILL ATTACH TO THE TAB FACE SHOWN IN THE DETAIL.
2. MOVE THE CLAMP ASSEMBLY ALONG THE POST UNTIL IT LINES UP WITH THE LOCATION THAT IT WILL BE CONNECTED TO THE PANEL. COMPLETE THE PANEL CONNECTION AS SPECIFIED IN THE INDIVIDUAL PANEL INSTRUCTION.
3. LEVEL THE CLAMP ASSEMBLY AROUND THE POST AND TIGHTEN CLAMP HARDWARE.
4. AS A LAST STEP IN THE PLAYGROUND INSTALLATION, INSTALL HAMMER DRIVE PINS. LOCATE ONE OF THE EXISTING SMALL HOLES IN A CLAMP HALF. (EITHER HOLE CAN BE USED, USE THE MOST ACCESSIBLE.) THIS WILL BE THE DRILLING SITE FOR THE HAMMER DRIVE PIN. DRILL A 5mm (3/16") DIA. HOLE INTO THE POST. INSERT THE HAMMER DRIVE PIN INTO THE HOLE. TAP THE CENTER CORE PIN INWARD UNTIL IT IS FLUSH WITH THE OUTER PIN SURFACE. BE CAREFUL NOT TO MAR THE PAINTED SURFACES. REPEAT ON THE OTHER CLAMP HALF. HAMMER DRIVE PINS ARE SHIPPED SEPERATELY FROM CLAMP HARDWARE.

PANEL OR WING CLAMP

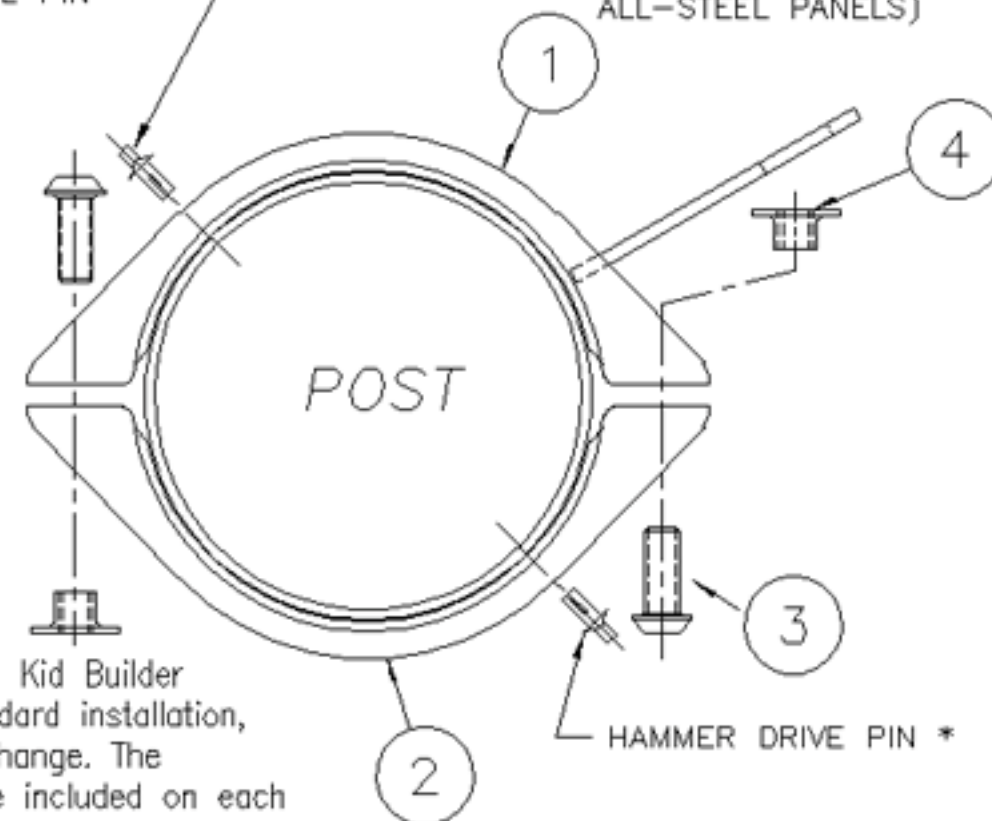
ITEM	CODE	DESCRIPTION	QTY
1	-	CLAMP HALF W/TAB F/PANEL MT. ZN	1
-OR-	1	CLAMP HALF W/TAB F/KB WING CLAMP	1
2	-	CLAMP HALF W/O WELDED ATTACHMENT ZN	1
3	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	2
4	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5MM	2



REF: PANEL CLAMP


REF: WING CLAMP
(TO BE USED ON KB PLUS
ALL-STEEL PANELS)

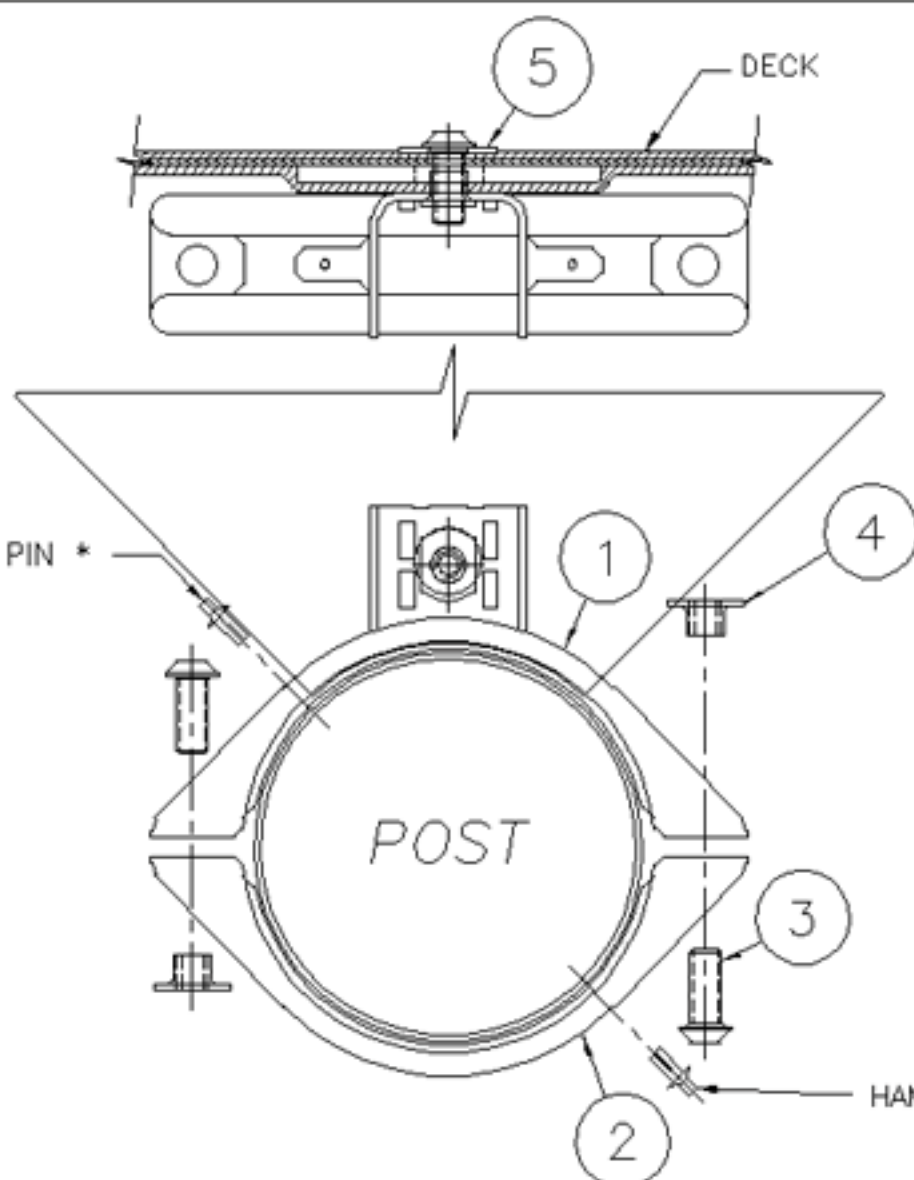
HAMMER DRIVE PIN *



HAMMER DRIVE PIN *

DECK CLAMP

ITEM	CODE	DESCRIPTION	QTY
1	-	CLAMP HALF W/NEW DECK ATTACHMENT ZN	1
2	-	CLAMP HALF W/O WELDED ATTACHMENT ZN	1
3	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	3
4	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5MM	3
5	200002100	WASHER FLAT M11 320D X 13ID X 2 MM THK	1



The following details illustrate the assembly of all standard Kid Builder Clamps. If a component requires an exception to the standard installation, the instruction page for that component will reflect that change. The hardware used to attach a Panel Clamp to a panel will be included on each component page.

1. Each Clamp half will have a small hole and a large hole on opposite sides. The Larger hole accommodates the Tee Nuts.

2. Always make sure the event is at the proper height and the clamps are level before Hammer Drive Pins are installed.

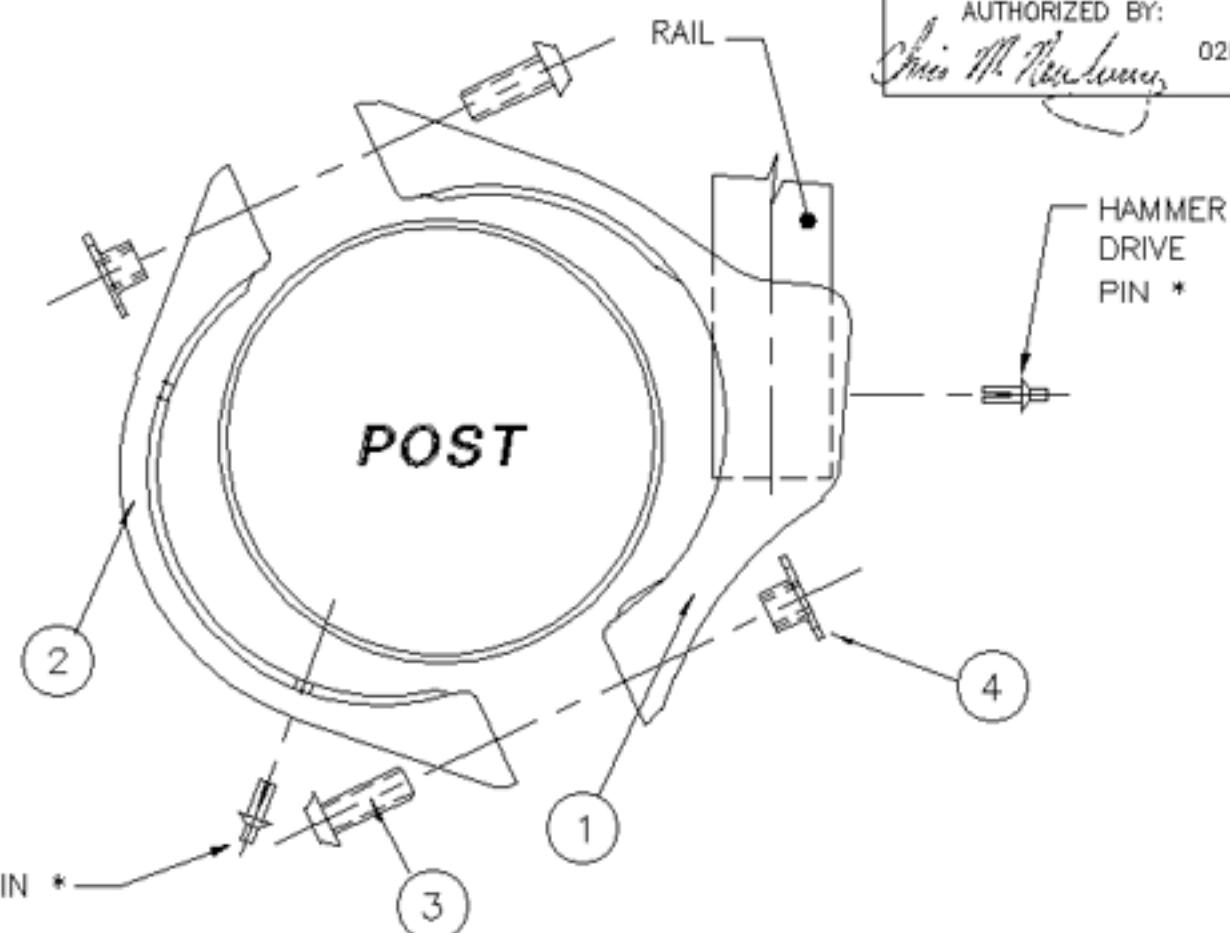
3. There will also be two smaller pilot holes on each clamp half. Pick the most accessible hole and drill a 5mm dia. hole through the clamp half and the post. Tap the pins in with a rubber mallet or hammer. Be careful not to mar paint surfaces. Also, all Rail Clamp attachments will have pilot holes for hammer drive pin installation.

* Hammer drive pins are not included in the clamp hardware bag. They are located in a separate bag in the hardware kit.

The following details illustrate the assembly of all standard Kid Builder Clamps. If a component requires an exception to the standard installation, the instruction page for that component will reflect that change.

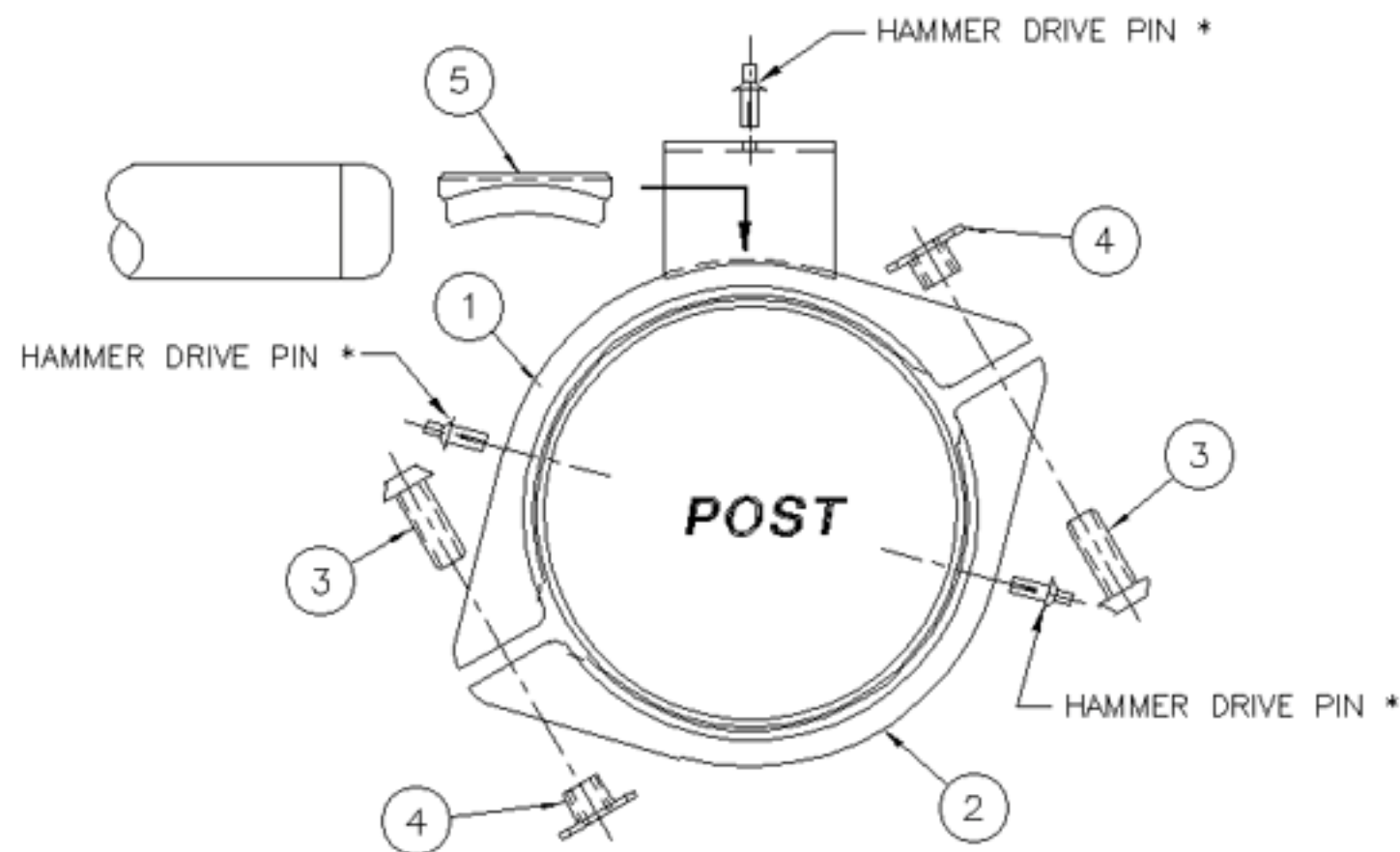
1. Each Clamp half will have a small hole and a large hole on opposite sides. The Larger hole accommodates the Tee Nuts.
2. Always make sure the event is at the proper height and the clamps are level before Hammer Drive Pins are installed.
3. There will also be two smaller pilot holes on each clamp half. Pick the most accessible hole and drill a 5mm dia. hole through the clamp half and the post. Tap the pins in with a rubber mallet or hammer. Be careful not to mar paint surfaces. Also, all Rail Clamp attachments will have pilot holes for hammer drive pin installation.

* Hammer drive pins are not included in the clamp hardware bag. They are located in a separate bag in the hardware kit.



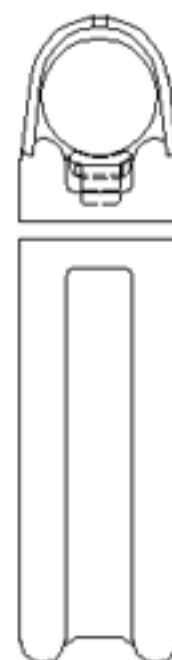
30 DEG. RAIL CLAMP W/ WEDGE

ITEM	DRG REF	DESCRIPTION	QTY
1	-	CLAMP HALF W/ATT. F/RAILS ZN 30 DEG.	1
2	-	CLAMP HALF W/O WELDED ATTACHMENT ZN	1
3	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25 MM	2
4	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5 MM	2
5	200000733	SPACER WEDGE ALUM. F/KB CLAMP F/SLOT	1



HOODED RAIL CLAMP

ITEM	DRG. REF	DESCRIPTION	QTY
1	-	CLAMP HALF W/HOODED RAIL ATTACHMENT ZN	1
2	-	CLAMP HALF W/O WELDED ATTACHMENT ZN	1
3	200002018	SCREW MACH. BUTTONHEAD M10 X 1.5 X 25mm	2
4	200001966	T-NUT SLAB BASE M10 X 1.5 X 9.5mm	2





BALCONY DECK W/ENCLOSURE

KB100012H

AUTHORIZED BY: 11SEP23

Steve Adkins

Note: An (*) by a part number (Code) indicates: Color Code Required.

BALCONY DECK W/ENCL 200006942
(SMALL HOLE DECK 200200185)

DECK BALCONY W/STRG WHEEL MOUNT F/KB 200114761
(SMALL HOLE DECK 200200284)

DECK BALCONY F/WHL CHAIR ACCESS F/KB 200121064
(SMALL HOLE DECK 200200285)

Item	Code	Description	Qty.
1A	910516*	DECK BALCONY F/KB W/27MM HOLES	1
1B	910517*	DECK BALCONY KB SMALL HOLE	1
2	-	SAFETY RAIL F/KB BALCONY DECK	1
8	-	HOODED RAIL CLAMP F/KB	2

HRDW PKG KB BALCONY DECK M1/1 HW7713-1

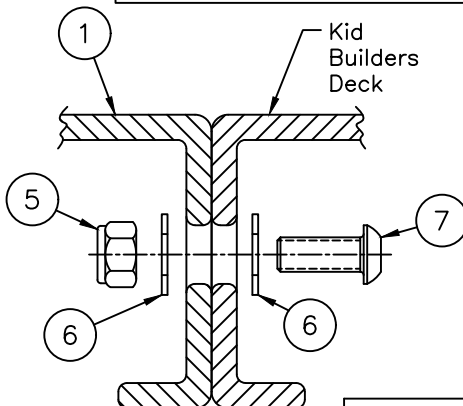
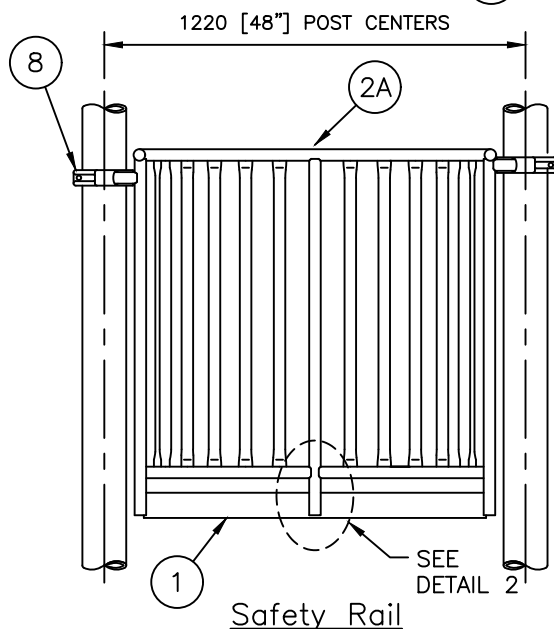
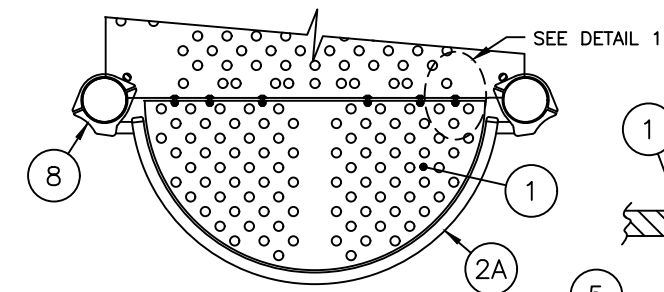
Item	Code	Description	Qty.
3	200002150	SCREW MACH BUTTONHEAD M10 X 1.5 X 55mm	3
4	200008483	WASHER BOWED M11 23.5 X 11.7 X 1.57 mm	3
5	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	9
6	925963	WASHER 3/8 FLAT 1-1/8 X 7/16 X 3/32	15
7	200002030	SCREW MACH BUTTONHEAD M10 X 1.50 X 30MM	6

Application

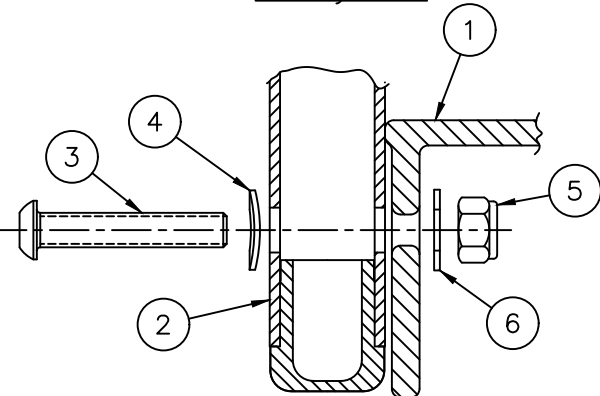
-Install on a deck edge with 1220mm [48"] center to center posts only.

Installation Instructions

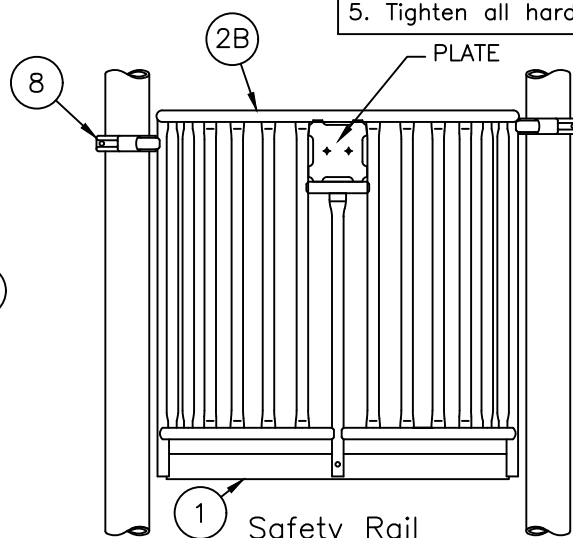
1. Attach the Balcony deck to the deck edge (refer to DETAIL 1).
2. Loosely assemble enclosure to posts using hooded rail clamps (refer to front of manual for clamp installation detail).
3. Fasten enclosure to balcony deck at three locations (refer to DETAIL 2). Note: do not tighten any of the three until each has been started.
4. Level the Balcony Deck.
5. Tighten all hardware and install clamp drive pins.



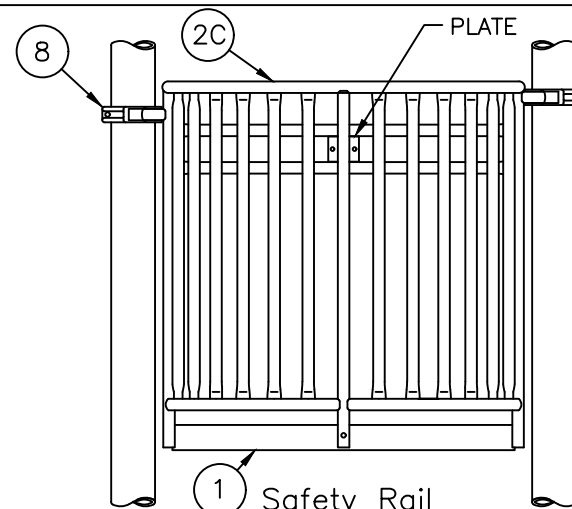
DETAIL 1
Typ 6 Places



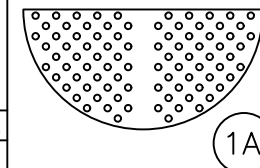
DETAIL 2
Typ 3 Places



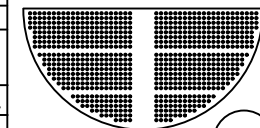
With Wheel Mount Plate



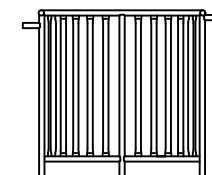
With Wheel Mount Tab



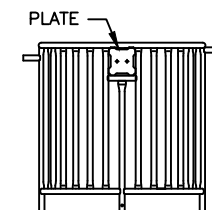
1A



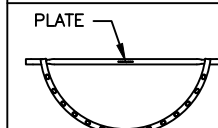
1B



2A



2B



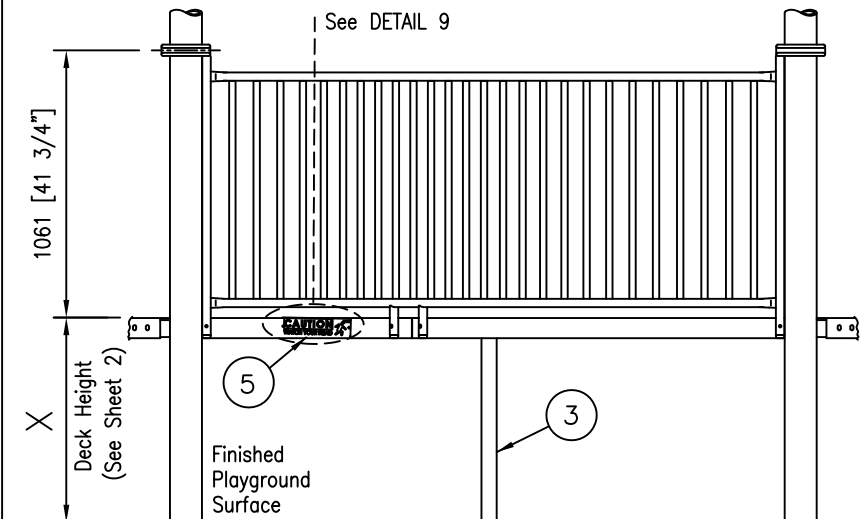
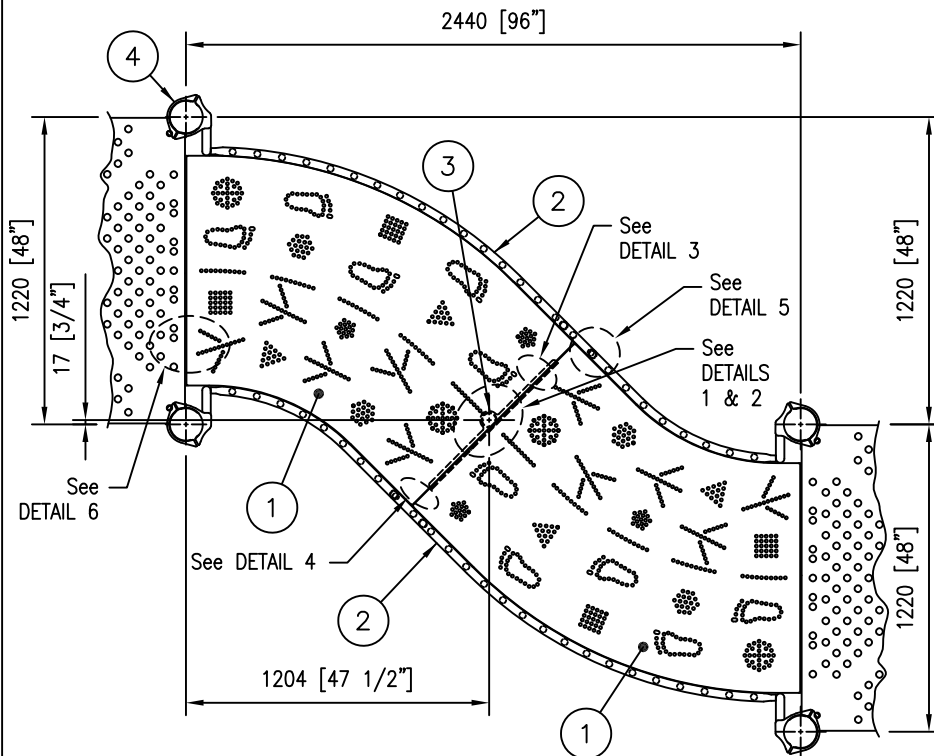
2C



"S" BRIDGE RIGHT W/SAFETY RAILS

KB100032D

Sheet 1 of 3



NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

KB BRIDGE "S" CURVE RGT W/SAFE RAILS 8' - 200200102

Item	Code	Description	Qty.
1	910509*	BRIDGE CURVE RGT.	2
2	910860*	RAIL SAFETY RGT. KB "S" BRIDGE	2
3	909418*	SUPPORT F/CURVED BRIDGE	1
4	909346*	HOODED RAIL CLAMP F/KB	4
5	AMC0954	SIGN - CAUTION WATCH YOUR HEAD SIGN	2
6	HW2CLMPSET-1	HRDW PKG F/2SETS O/CLAMPS S1/1	2
7	HW142207-1	HRDW PKG KB CURV & S BRDG L1/1	1

HRDW PKG F/2SETS O/CLAMPS S1/1 - HW2CLMPSET-1

Item	Code	Description	Qty.
8A	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	4
9	200000797	HAMMER DRIVE PIN 4.7 X 11.11MM	4
10	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5MM	4

HRDW PKG KB CURV & S BRDG L1/1 - HW142207-1

Item	Code	Description	Qty.
8B	925963	WASHER 3/8 FLAT 1-1/8 X 7/16 X 3/32	40
11	200002030	SCREW MACH BUTTONHEAD M10 X 1.50 X 30MM	18
12	200002150	SCREW MACH BUTTONHEAD M10 X 1.5 X 55 MM	8
13	200002079	WASHER FLAT M11 23 X 12 X 1.6	4
14	200008483	WASHER BOWED M11 23.5 X 11.7 X 1.57 MM	8**
15	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	26
16	200126822	RIVET POP ALUM. 1/8 X 1/4 PRADA44D	4

Note: Two (**) indicate a quantity of 10 required for surface mount.

ITEMS USED FOR SURFACE MOUNT ONLY

Item	Code	Description	Qty.
17	902444	TUBE ANCHOR ROPE CLIMBER SM305	1
18	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30 MM	1
19	200002138	BOLT M8 X 1.25 MALE 42.5 MM	1
20	200001776	ANCHOR CONCRETE WEDGE M10 X 1.50 X 100MM	2

Note: An (*) by a part number (CODE) indicates: Color Code Required.

Application

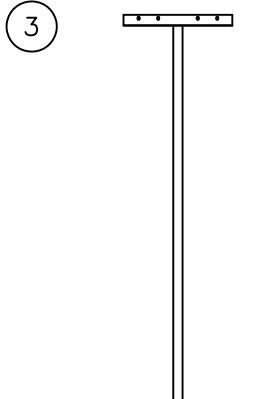
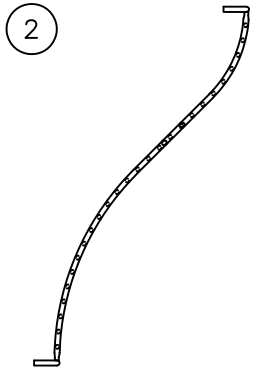
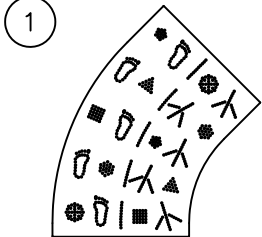
- Handcapped accessible.
- This is a platform event and can be installed at various heights. Refer to your layout drawing.
- Attachment decks must be at the same height.

Installation Instructions

1. Prepare footings per separate Footing Detail Instructions.
2. Depending on the deck height and ground cover option, the bridge support (item 3) may need to be cut to length. See TABLE 1 and DETAIL 1, Sheet 2.
3. SURFACE MOUNT ONLY: After cutting bridge support to length, drill Ø13mm [1/2"] hole thru both sides of tube 52mm [2"] from the bottom, DETAIL 2, Sheet 2. Install tube anchor (item 17) in bottom of bridge support, DETAIL 3, Sheet 2.

Note: Installation Instructions are continued on Sheet 2.

AUTHORIZED BY: 08JAN20
Steve Adkins

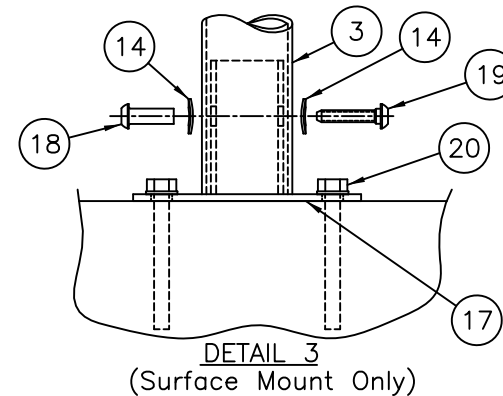
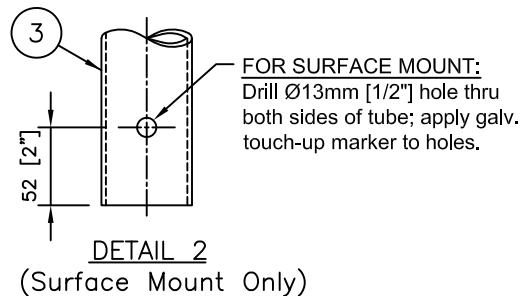
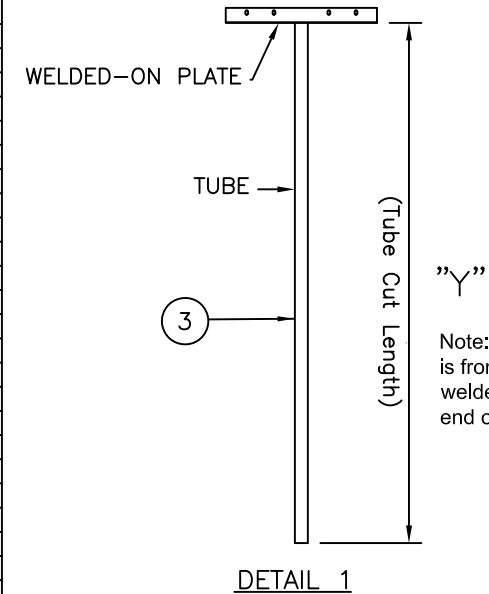


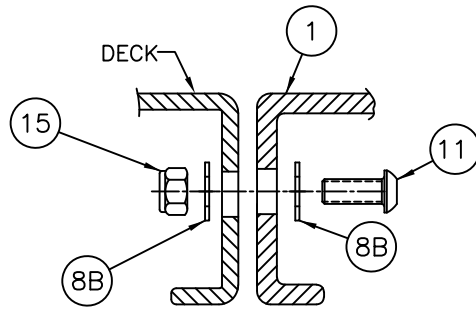
Installation Instructions continued from Sheet 1.

4. Loosely attach one curved bridge (item 1) to existing deck, DETAIL 4, Sheet 3. Support bridge on the opposite end using bridge support (item 5).
5. Loosely attach the remaining curved bridge to the opposite existing deck, DETAIL 4, Sheet 3, again supporting the opposite end using the deck support (item 5).
6. Loosely attach the two bridges and bridge support, DETAILS 5 & 6, Sheet 3.
7. Loosely assemble safety rails (Items 2) to the rail clamp (Item 4), DETAIL 7, Sheet 3. Do not install the clamp drive pin at this time.
8. Loosely assemble safety rails to the bridges, DETAIL 8, Sheet 3.
9. Make sure the bridges are level and rails are plumb.
10. Locate the most likely path for a user to take underneath the bridge and position the sign (ITEM 5) perpendicular to this path. Make sure the location is readily visible. Use the sign as a template to mark where to drill the two (2) holes on both sides of the bridge; drill the two (2) holes using a 1/8" bit. Install the sign on both sides of the bridge, DETAIL 9, Sheet 3.
11. Tighten all hardware, complete footings and install resilient surfacing.

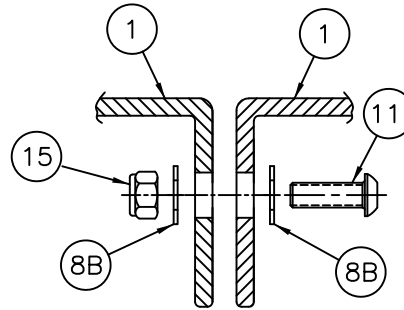
TABLE 1: TUBE CUT LENGTHS

"X" DECK HEIGHT (see sheet 1)	GROUND COVER OPTION	"Y" LENGTH (see DETAIL 7)
915mm [36"]	40mm [1 1/2"] Surf. Mt.	864mm [34"]
	305mm [12"] Surf. Mt.	1129mm [44 1/2"]
	305mm [12"] Ing. Mt.	1513mm [59 1/2"]
1220mm [48"]	40mm [1 1/2"] Surf. Mt.	1169mm [46"]
	305mm [12"] Surf. Mt.	1434mm [56 1/2"]
	305mm [12"] Ing. Mt.	1818mm [71 1/2"]
1422mm [56"]	40mm [1 1/2"] Surf. Mt.	1371mm [54"]
	305mm [12"] Surf. Mt.	1636mm [64 1/2"]
	305mm [12"] Ing. Mt.	2020mm [79 1/2"]
1625mm [64"]	40mm [1 1/2"] Surf. Mt.	1574mm [62"]
	305mm [12"] Surf. Mt.	1839mm [72 1/2"]
	305mm [12"] Ing. Mt.	2223mm [87 1/2"]
1830mm [72"]	40mm [1 1/2"] Surf. Mt.	1779mm [70"]
	305mm [12"] Surf. Mt.	2044mm [80 1/2"]
	305mm [12"] Ing. Mt.	2426mm [95 1/2"]
2035mm [80"]	40mm [1 1/2"] Surf. Mt.	2083mm [82"]
	305mm [12"] Surf. Mt.	2350mm [92 1/2"]
	305mm [12"] Ing. Mt.	2654mm [104 1/2"]
2235mm [88"]	40mm [1 1/2"] Surf. Mt.	2388mm [94"]
	305mm [12"] Surf. Mt.	2654mm [104 1/2"]
	305mm [12"] Ing. Mt.	3035mm [119 1/2"]
2440mm [96"]	40mm [1 1/2"] Surf. Mt.	2692mm [106"]
	305mm [12"] Surf. Mt.	2959mm [116 1/2"]
	305mm [12"] Ing. Mt.	No Cut Required

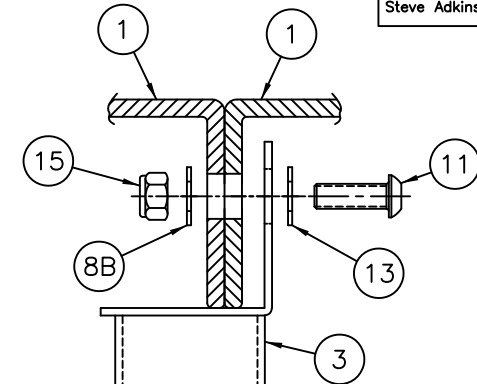




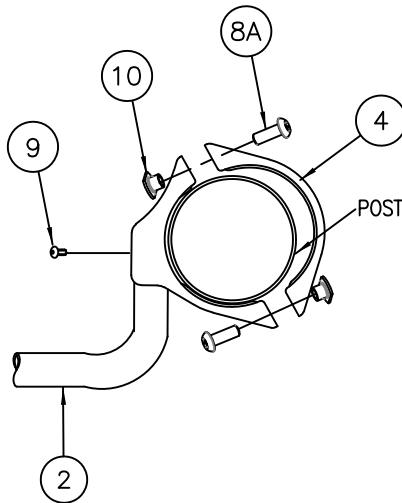
DETAIL 4
Typ 12 Places



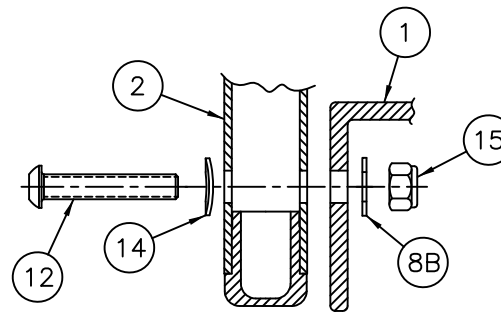
DETAIL 5
Typ 2 Places



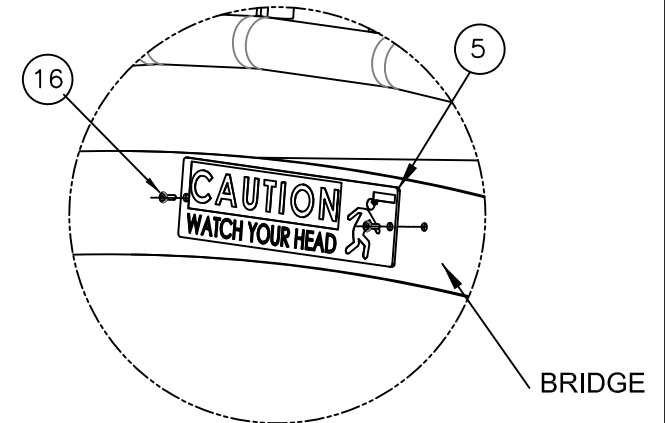
DETAIL 6
Typ 4 Places



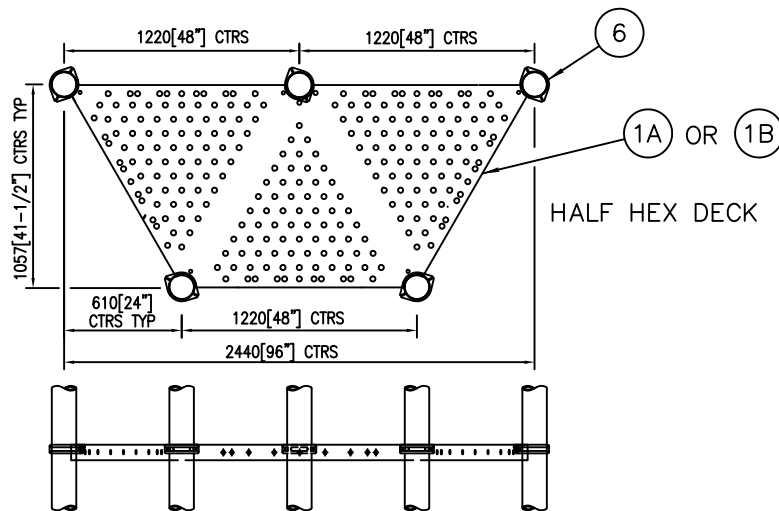
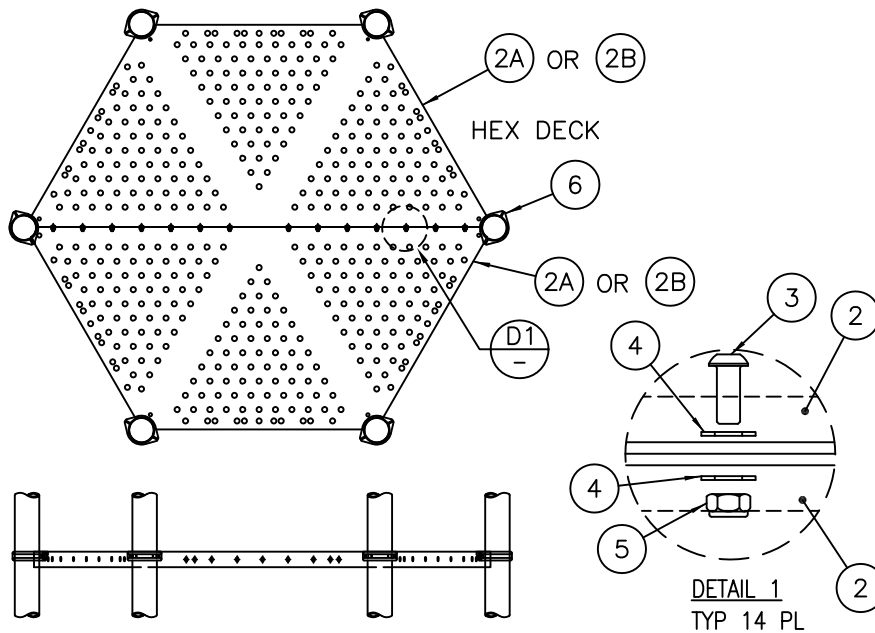
DETAIL 7
Typ 4 Places



DETAIL 8
Typ 8 Places



DETAIL 9
Typ 2 Places



[NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS]

KB DECK HALF HEX LARGE HOLE 11GA 200202496

Item	Code	Description	Qty.
1A	910486P	DECK HALF HEX F/POST 11GA	1
6	909383P	* DECK CLAMP - F/5" TUBE	5

KB DECK HEX LARGE HOLE 11GA 200202492

Item	Code	Description	Qty.
2A	910480P	HALF OF WHOLE DECK W/27 MM HOLES	2
6	909383P	* DECK CLAMP - F/5" TUBE	6

KB DECK HALF HEX SMALL HOLE 11GA 200202500

Item	Code	Description	Qty.
1B	910489P	DECK HALF HEX F/POST (TDV) SMALL HOLE	1
6	909383P	* DECK CLAMP - F/5" TUBE	5

KB DECK HEX SMALL HOLE 11GA 200202497

Item	Code	Description	Qty.
2B	910481P	DECK 1/2 WHOLE HEX KB (TDV) SMALL HOLE	2
6	909383P	* DECK CLAMP - F/5" TUBE	6

HRDW PKG LVL DK NSTLLTN S1/1 HW7690-1

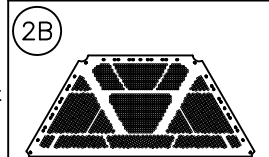
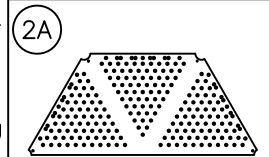
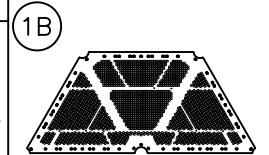
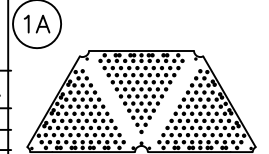
Item	Code	Description	Qty.
3	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	8
4	200002079	WASHER FLAT M11 X 12 X 1.6MM	16
5	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	8

* SEE DECK CLAMP DETAILS IN THE FRONT OF THE MANUAL.

Installation Instructions

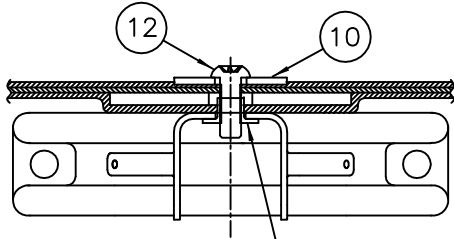
1. Position posts to proper locations or footing holes as specified by the playground layout drawing and the footing details in the front of this manual.
2. Measure and mark the height of each clamp on posts. The top of the clamp will be 13mm[1/2"] below the deck. IMPORTANT: When marking posts, allow for finished grade and resilient surfacing as specified in the footing details.
3. Fasten *clamps to posts. (SEE DECK CLAMP DETAILS IN THE FRONT OF THE KB MANUAL.) Do NOT drill for hammer drive pins yet.
4. Attach deck to clamps. Assemble the two hex deck pieces mechanically as shown. Re-check levelness and deck height.
5. Tighten all hardware and drive pin clamps to posts. When installing a Whole Hex Deck or installing additional decks at the same height, always install the first deck by attaching it to posts with deck clamps in all locations. Additional decks cannot share clamps with the first deck and will have to be assembled together mechanically as shown in detail. In all other locations where clamp space is available on the post, attach the deck with clamps.
6. Plumb and level decks and posts. If surface mounting, anchor bolt posts to concrete. If installing inground, make sure posts are at the proper height and complete footings.
7. After concrete has cured, backfill with earth and install ground cover.

Application
AGE GROUPS (2-12 YEAR OLDS)
- Decks are considered platform events and can be used by all ages if installed at an appropriate height for the particular age group.
- A deck above 508mm [20"] must have an enclosure for ages 2-5 max. height difference between adjacent decks is 305mm [12"] without alternative means of access.
- A deck above 762mm [30"] must have an enclosure for ages 5 to 12 max. height difference between adjacent decks is 406mm [16"] without alternative means of access.

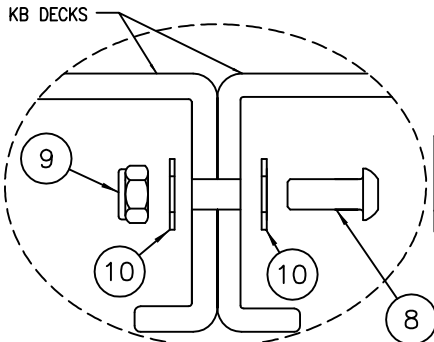
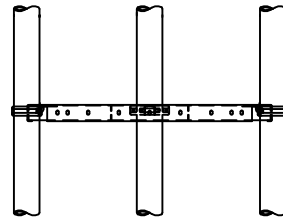
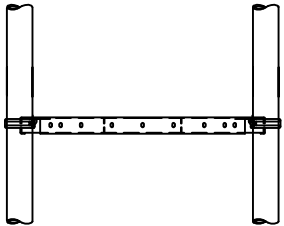
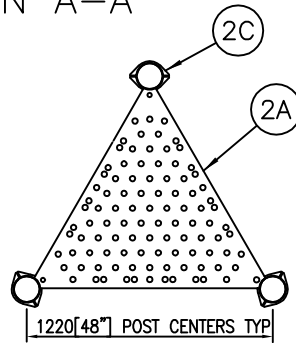
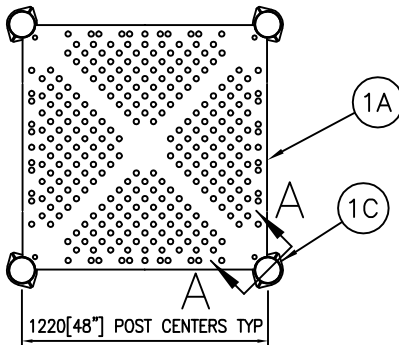


AUTHORIZED BY: 17DEC21

TRACY ARCHER



SECTION A-A



TO INSTALL TWO DECKS AT THE SAME HEIGHT, PLACE THE DECK EDGES TOGETHER AND ASSEMBLE HARDWARE AS SHOWN AT LEFT.

[NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS]

- 200202483 - KB DECK SQUARE LARGE HOLE 11GA
- 200202483CP - KB DECK SQUARE LARGE HOLE 11GA PRIMER
- 200202485 - KB DECK TRIANGLE LARGE HOLE 11GA
- 200202503 - KB DECK SQUARE SMALL HOLE 11GA
- 200202503CP - KB DECK SQUARE SMALL HOLE 11GA PRIMER
- 200202504 - KB DECK TRIANGLE SMALL HOLE 11GA
- 200202504CP - KB DECK TRIANGLE SMALL HOLE 11GA PRIMER

Item	Code	Description	Qty.
1A	910440*	DECK SQUARE KB W/27MM HOLES 11GA	1
1B	910442*	DECK SQUARE KB SMALL HOLE 11GA	1
1C	909383*	DECK CLAMP F/5" TUBE	4
2A	910424*	DECK TRIANGLE KB W/27MM HOLES 11GA	1
2B	910425*	DECK TRIANGLE KB SMALL HOLE 11GA	1
2C	909383*	DECK CLAMP F/5" TUBE	3
3	HW2CLMPSET-1	HRDW PKG F/2SETS O/CLAMPS S1/1	2
4	HW7704-1	HRDW PKG F/CLAMP ELIMINATION M1/1	1

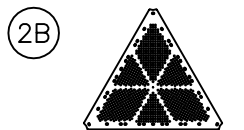
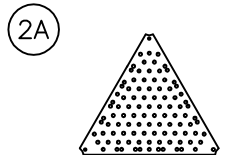
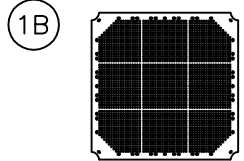
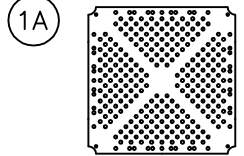
HRDW PKG F/2SETS O/CLAMPS S1/1 - HW2CLMPSET-1

Item	Code	Description	Qty.
5	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	4
6	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5MM	4
7	200000797	HAMMER DRIVE PIN 4.7 X 11.11MM	4

HRDW PKG F/CLAMP ELIMINATION M1/1 - HW7704-1

Item	Code	Description	Qty.
8	200002030	SCREW MACH BUTTONHEAD M10 X 1.50 X 30MM	5
9	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	5
10	925963	WASHER 3/8 FLAT 1-1/8 X 7/16 X 3/32	14
11	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5MM	4
12	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	4

Note: An (*) by a part number (Code) indicates: Color Code Required.



Application

- Decks are considered platform events and can be used by all ages if installed at an appropriate height for the particular age group.
- A deck above 508mm [20"] must have an enclosure for ages 2-5 max. height difference between adjacent decks is 305mm [12"] without alternative means of access.
- A deck above 762mm [30"] must have an enclosure for ages 5 to 12 max. height difference between adjacent decks is 406mm [16"] without alternative means of access.

Installation Instructions

1. Position posts to proper locations or footing holes as specified by the playground layout drawing and the footing details in the front of this manual.
2. Measure and mark the height of each clamp on posts. The top of the clamp will be 13mm [1/2"] below the deck. IMPORTANT: When marking posts, allow for finished grade and resilient surfacing as specified in the footing details.
3. Fasten *clamps to posts. (SEE DECK CLAMP DETAILS IN THE FRONT OF THE KB MANUAL.) Do NOT drill for hammer drive pins yet.
4. Attach deck to clamps. Re-check levelness and deck height.
5. Tighten all hardware and drive pin clamps to posts. If installing additional decks at the same height, always install the first deck by attaching it to posts with deck clamps in all locations. Additional decks cannot share clamps with the first deck and will have to be assembled together mechanically as shown in detail. In all other locations where clamp space is available on the post, attach the deck with clamps.
6. Plumb and level decks and posts. If surface mounting, anchor bolt posts to concrete. If installing inground, make sure posts are at the proper height and complete footings.
7. After concrete has cured, backfill with earth and install ground cover.



1220mm [48"] TRANSFER STATION 11 GAUGE

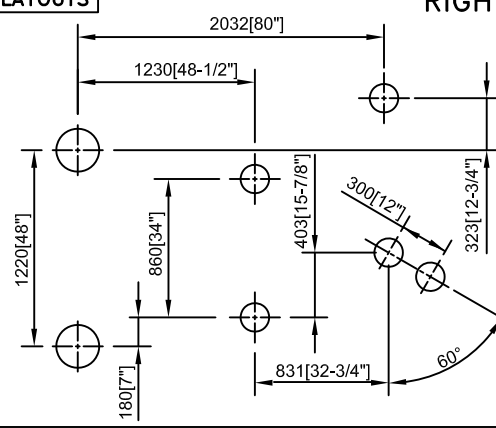
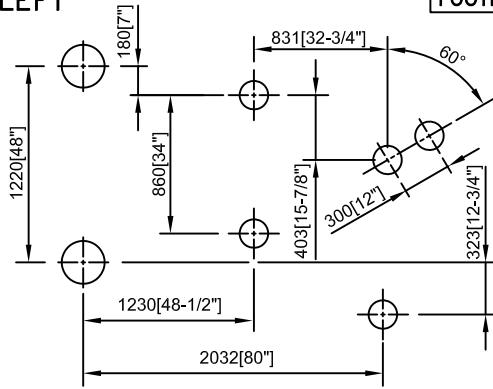
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Sheet 1 of 2

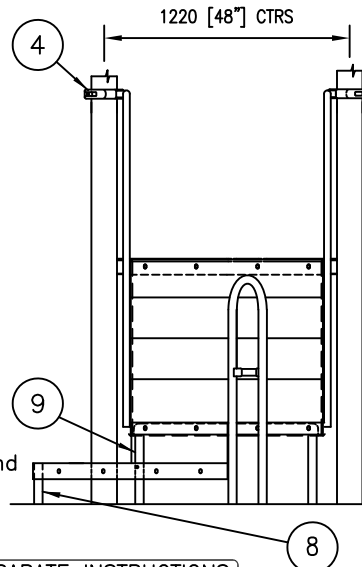
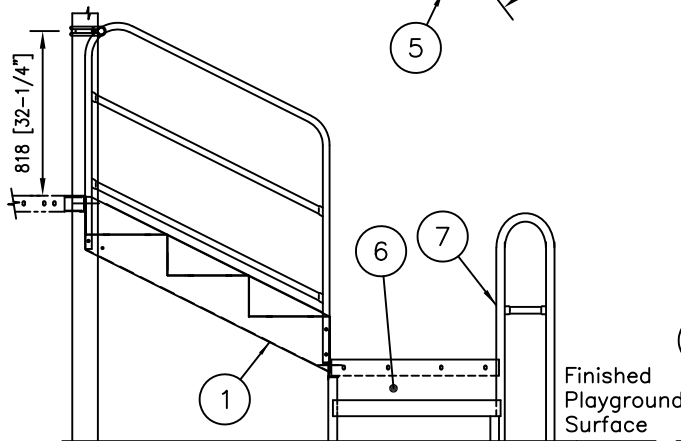
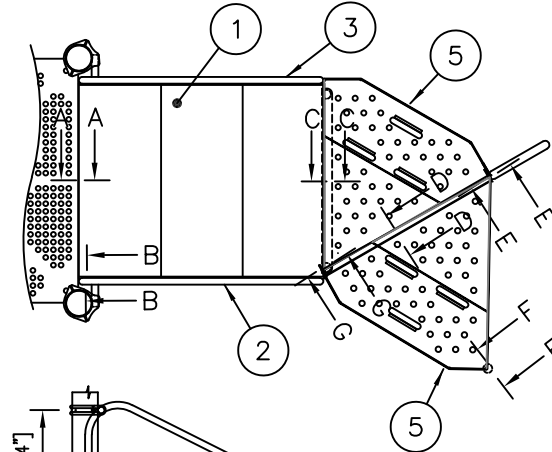
LEFT

FOOTING LAYOUTS

RIGHT



LEFT TRANSFER STATION W/GUARD RAILS SHOWN



NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

200202564-KB TRANS STAT 1220 GRD RL 11GA
200202562-KB TRANS STAT 1220 SFTY RL 11GA
200202565-KB TRANS STAT 1220 GRD RL (SM HL)11GA
200202563-KB TRANS STAT 1220 SFTY RL (SM HL)11GA

Item	Code	Description	Qty.
1A	910530*	STEPS DECK TO DECK 815	1
1B	910529*	STEPS DK-TO-DK 815 SMALL HOLE	1
2A	911255*	HANDRAIL F/KB 1220TRNSFR STN LFT	1
2B	999421*	SAFETY RAIL LFT.KB 1220 TRSFR.	1
3A	911254*	HANDRAIL F/KB 1220TRNSFR STN RGT	1
3B	999420*	SAFETY RAIL RGT.KB 1220 TRSFR.	1
4	909346*	HOODED RAIL CLAMP F/KB	2
5A	902717*	DECK SNO CONE TRANSFER STATION LG HOLE	2
5B	902688*	DECK SNO CONE TRANSFER STATION SM HOLE	1
6	910421*	PLATE KICK F/TRANSFER STATION	1
7A	911253*	LOOP TRSFR STATION 40 SM	1
7B	911252*	LOOP F/TRSFR STATION 305 SFMT	1
7C	911251*	LOOP F/TRSFR STATION BURIED	1
8A	910044*	SUPP FOOT TRSFR STAT DK SM40	1
8B	910043*	SUPP FOOT TRSFR STAT DK SM305	1
8C	910042*	SUPP FOOT TRSFR STAT DK BURIED	1
9A	910041*	SUPP STEP TRSFR STAT 40 SFMT	1
9B	904419*	SUPP STEP TRSFR STAT 305 SFMT	1
9C	910040*	SUPP STEP TRSFR STAT BURIED	1
10	HW1CLMPSET-1	HRDW PKG F/1SET O/CLAMPS S1/1	3
11	HW16252-1	HRDW PKG KB TRSFR STATION 1/4	1
12	HW16252-2	HRDW PKG KB TRSFR STATION 2/4	1
13	HW16252-3	HRDW PKG KB TRSFR STATION 3/4	1
14	HW16252-4	HRDW PKG KB TRSFR STATION M4/4	1

Note: An (*) by a part number (Code) indicate: Color Code Required.

HRDW PKG F/1SET O/CLAMPS S1/1 - HW1CLMPSET-1

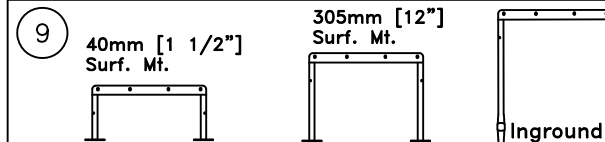
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15	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	2
16	200000797	HAMMER DRIVE PIN 4.7 X 11.11MM	2
17	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5MM	2

HRDW PKG KB TRSFR STATION 1/4 - HW16252-1 HRDW PKG KB TRSFR STATION 2/4 - HW16252-2 HRDW PKG KB TRSFR STATION 3/4 - HW16252-3 HRDW PKG KB TRSFR STATION M4/4 - HW16252-4

Item	Code	Description	Qty.
18	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	22
19	925963	WASHER 3/8 FLAT 1 -1/8 X 7/16 X 3/32	30
20	200002030	SCREW MACH BUTTONHEAD M10 X 1.5 X 30MM	16
21	200002079	WASHER FLAT M11 23 X 12 X 1.6MM	13
22	200002133	BOLT M8 X 1.25 MALE 27.5mm	5
23	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30mm	5
24	200002150	SCREW MACH. BUTTONHEAD M10 X 1.5 X 55mm	6
25	200008483	WASHER BOWED M11 23.5 X 11.7 X 1.57mm	11

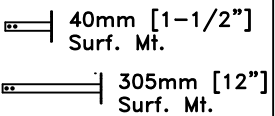
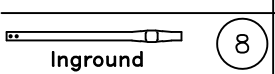
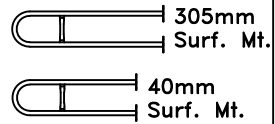
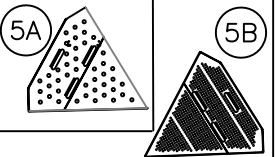
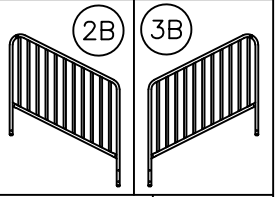
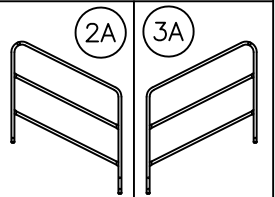
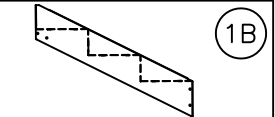
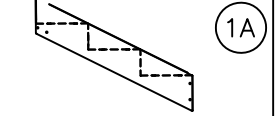
Application

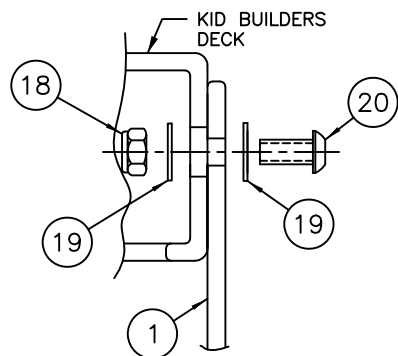
- Provides accessibility to structure.



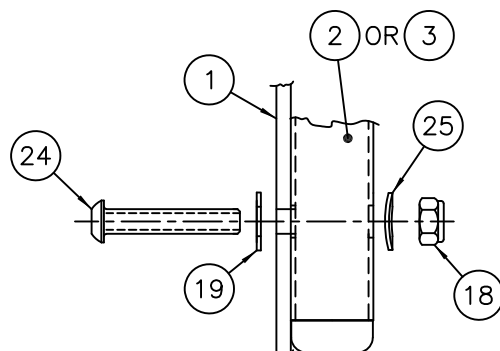
AUTHORIZED BY: 13APR20

Steve Adkins

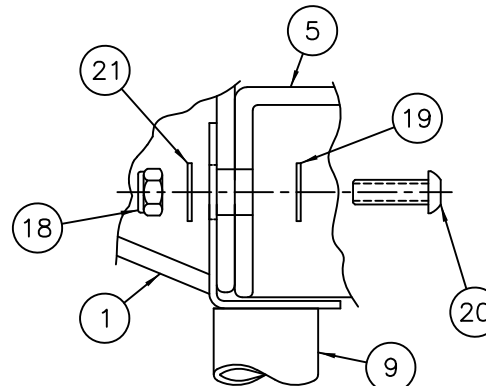




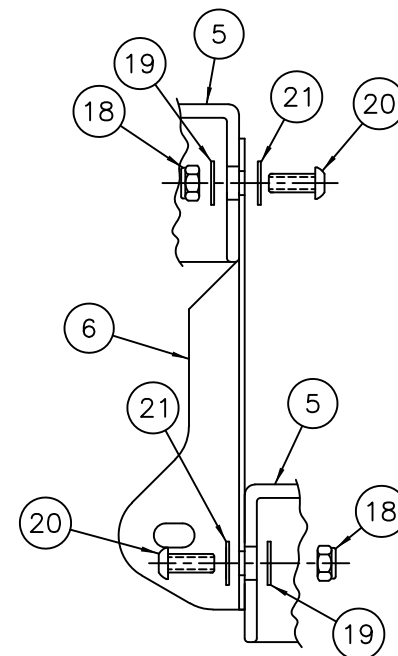
SECTION A-A
TYP 4 PL
(TOP OF STEPS TO
KB DECK ATTACHMENT)



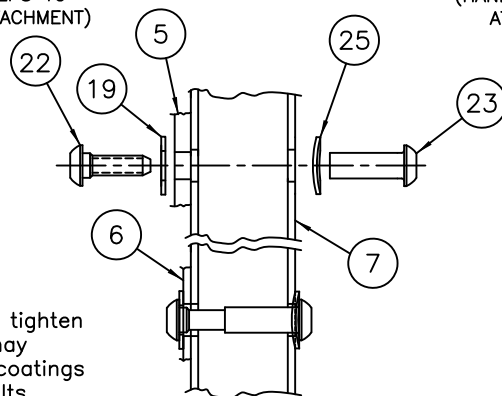
SECTION B-B
TYP 3 PL PER HANDRAIL
(HANDRAIL TO STEP
ATTACHMENT)



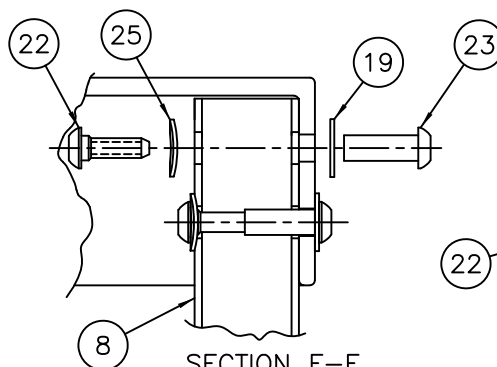
SECTION C-C
TYP 4 PL
(BOTTOM OF STEPS TO
UPPER SNO CONE DECK
AND SUPPORT STEP)



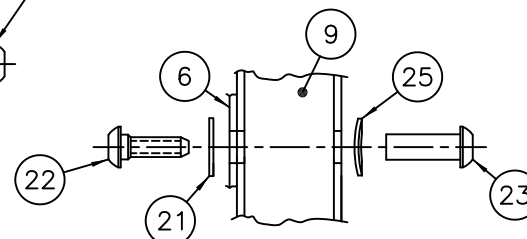
SECTION D-D
TYP 4 PL



SECTION E-E
TYP 1 PL
(LOOP ATTACHMENT
TO SNO CONE DECK
& KICK PLATE)



SECTION F-F
TYP 1 PL
(SUPPORT FOOT TO LOWER
SNO CONE DECK ATTACHMENT)



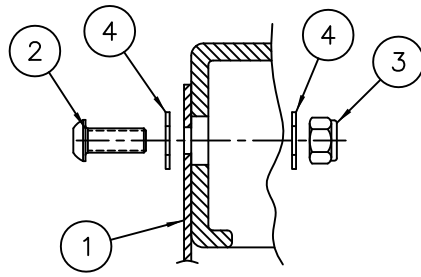
SECTION G-G
TYP 1 PL
(KICK PLATE TO STEP
SUPPORT ATTACHMENT)

Note: DO NOT over tighten bolts or damage may occur to the PVC coatings on components. Bolts have a thread lock patch. It is not necessary that the bolt extend into the nylon portion of the Nylock nut.

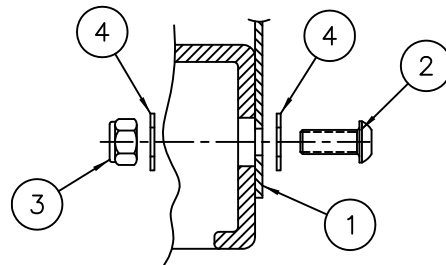
Installation Instructions

1. Prepare Footings.
2. Place the Step Support under the lower end of the Steps. Attach the upper end of the steps to the deck edge SEE SECTION A-A. Attach the Handrails to the sides of the Steps SEE SECTION B-B and then to the posts using Hooded Rail Clamps (refer to front of manual for clamp installation detail).
3. Attach the first Sno Cone Deck to the lower end of the Steps and Step Support as shown in SECTION C-C. Assemble the Kick Plate to the Sno Cone Deck as shown in SECTION D-D.
4. Attach the Loop to the corner of the first Sno Cone Deck SEE SECTION E-E.
5. Attach the Support Foot to the second Sno Cone Deck (SECTION F-F), then fasten the deck to the lower end of the Kick Plate (SECTION D-D).
6. Attach the Kick Plate to the Loop on one side and the Step Support on the other (SECTION G-G).
7. Tighten all hardware.
8. Complete footings and install resilient surfacing.

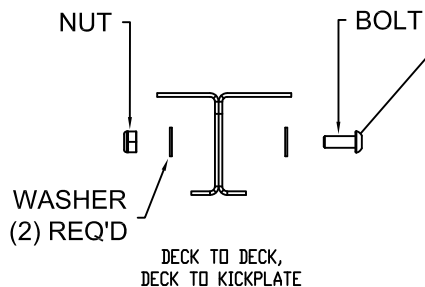
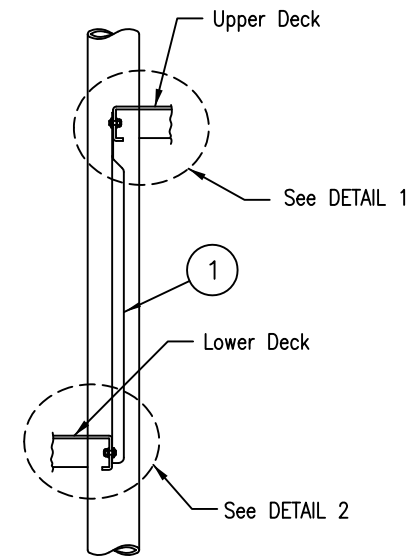
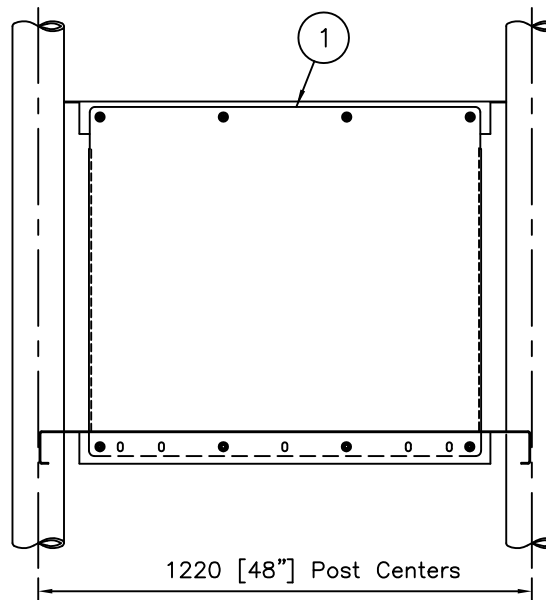
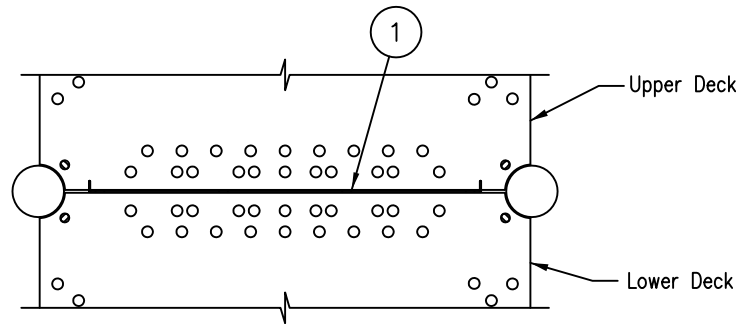
AUTHORIZED BY: 13JUN19
Matt Blisard



DETAIL 1
Typ 4 Places

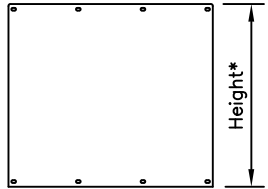


DETAIL 2
Typ 4 Places



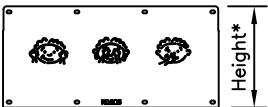
DO NOT OVERTIGHTEN BOLTS OR
DAMAGE MAY OCCUR TO THE
PVC COATING ON COMPONENTS.
BOLTS HAVE A THREAD LOCK PATCH.
IT IS NOT NECESSARY THAT THE BOLT
EXTEND INTO THE NYLON PORTION
OF THE NYLOCK NUT.

1A - 1F



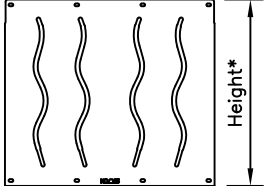
*Height will vary
according to distance
between decks

1G



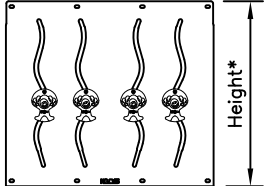
*Height will vary
according to distance
between decks

1H



*Height will vary
according to distance
between decks

1J



*Height will vary
according to distance
between decks



205/305/405/610/710/815 DECK TO DECK PLATES

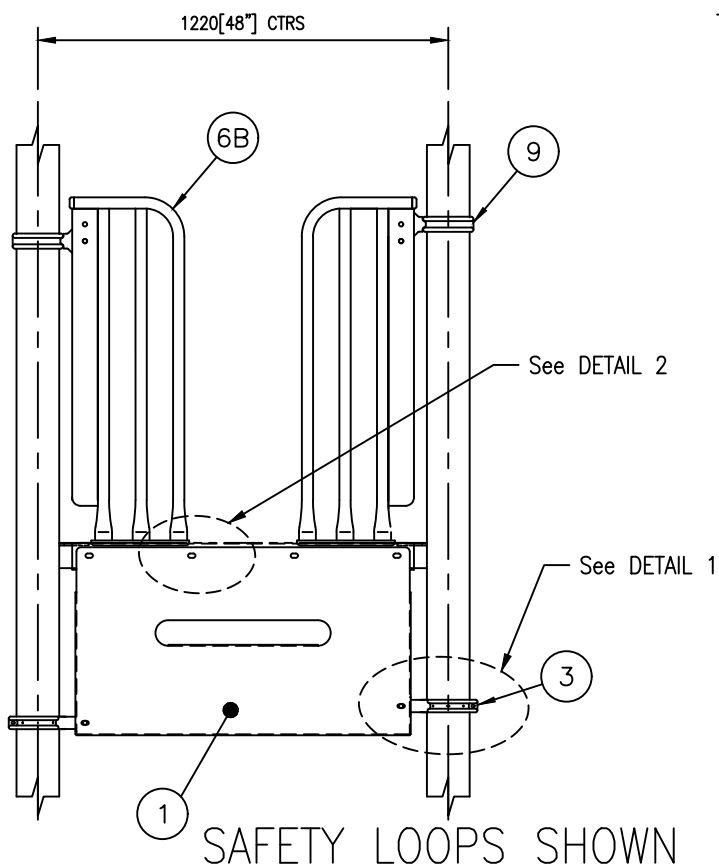
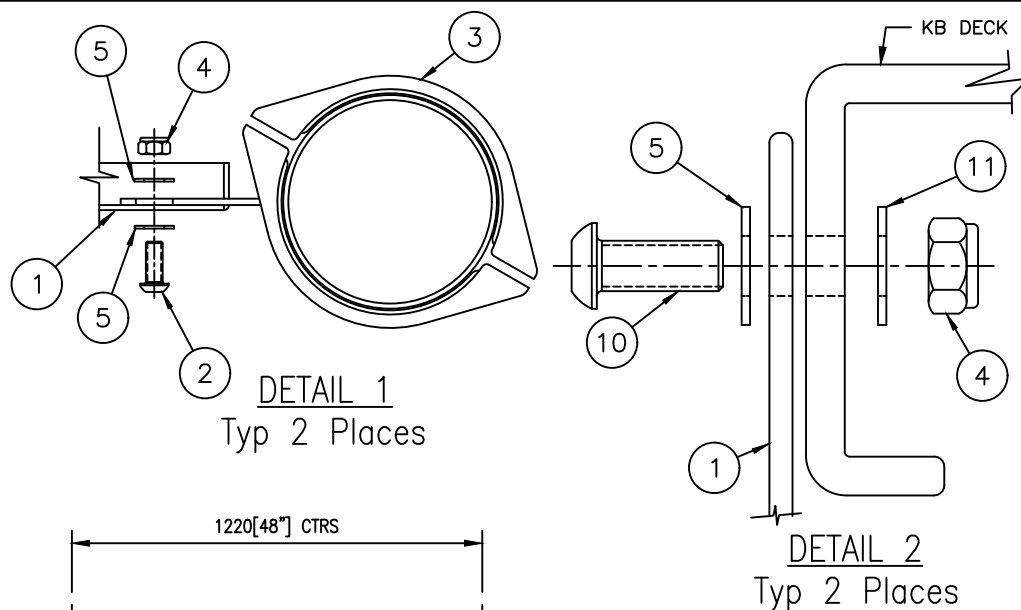
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Sheet 2 of 2

AUTHORIZED BY: 13JUN19
Matt Blisard

205mm [8"] DK/DK PLATE 100001134				Application – Must be used between all 203mm [8"] and 305mm [12"] increment decks. – When the lower platform exceeds 706mm [30"] and the upper platform is 228mm [9"] higher, a deck to deck plate must be used for 2–5 year age group. – When the lower platform exceeds 1220mm [48"] and the upper platform is 228mm [9"] higher, a deck to deck plate must be used for 5–12 year age group.
305mm [12"] DK/DK PLATE 100001137				
405mm [16"] DK/DK PLATE 100001139				
610mm [24"] DK/DK PLATE 100001142				
710mm [28"] DK/DK PLATE 100001144				
815mm [32"] DK/DK PLATE 100001148				
205mm [8"] DK/DK PLATE W/FACES 200200187				Installation Instructions 1. Install posts and decks. Make sure the decks are level and at the proper height. 2. Attach the top of the Deck to Deck Plate to the front of the upper deck. See DETAIL 1. 3. Attach the lower portion of the Deck to Deck Plate to the lower deck. See DETAIL 2.
305mm [12"] DK/DK PLATE W/FACES 200200188				
405mm [16"] DK/DK PLATE W/FACES 200200189				
610mm [24"] DK/DK PLATE W/4 SLOTS 200200190				
710mm [28"] DK/DK PLATE W/4 SLOTS 200200191				
815mm [32"] DK/DK PLATE W/4 SLOTS 200200192				
610mm [24"] DK/DK PLATE W/PARA. GUY 200200218				
710mm [28"] DK/DK PLATE W/PARA. GUY 200200219				
815mm [32"] DK/DK PLATE W/PARA. GUY 200200220				
Item	Code	Description	Qty.	
1A	200000047	PLATE DK/DK 205MM/8" KB BRN	1	
1B	200000049	PLATE DK/DK 305MM/12" KB BRN		
1C	200000051	PLATE DK/DK 405MM/16" KB BRN		
1D	200000053	PLATE DK/DK 610MM/24" KB BRN		
1E	200000056	PLATE DK/DK 710MM/28" KB BRN		
1F	200000058	PLATE DK/DK 815MM/32" KB BRN		
1G	–	PLATE DK/DK W/FACES F/KB		
1H	–	PLATE DK/DK W/4 SLOTS F/KB		
1J	–	PLATE DK/DK W/PARACHUTE GUY F/KB		
HDWR BAG F/KB STEEL KICK PLATES (MM) 200007706				
2	200002018	SCREW MACH BUTTON HEAD M10 X 1.50 X 25mm	8	
3	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	8	
4	200002079	WASHER FLAT M11 23 X 12 X 1.6mm	16	

AUTHORIZED BY: 11SEP23
Steve Adkins



610mm [24"] BD LADDER PANEL W/HAND LOOPS 200007024

Item	Code	Description	Qty.
1	910565*	LADDER PANEL F/KB 610 BELOW DECK	1
3	909321*	PANEL CLAMP F/KB PANELS	2
6A	910782*	HAND-HOLD LOOP SGL F/KB	2
8	909346*	HOODED RAIL CLAMP F/KB	4

HRDW PKG STL LDDR PAN S1/1 HW7705-1

Item	Code	Description	Qty.
4	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	8
5	200002079	WASHER FLAT M11 23 X 12 X 1.6mm	8
10	200002030	SCREW MACH BUTTON HEAD M10 X 1.50 X 30mm	8
11	925963	WASHER 3/8 FLAT 1-1/8 X 7/16 X 3/32	8

610mm [24"] BD LADDER PANEL W/SAFETY LOOPS 200022428

Item	Code	Description	Qty.
1	910565*	LADDER PANEL F/KB 610 BELOW DECK	1
3	909321*	KB PANEL CLAMP	2
6B	910315*	LOOP SAFETY W/O TAB RGT F/KB	1
	910316*	LOOP SAFETY W/O TAB LFT F/KB	1
9	909257*	CLAMP WING F/KB (2001)	2

HRDW PKG ARCH SFTY RL PNL S1/1 HW7712-1

Item	Code	Description	Qty.
2	200002018	SCREW MACH BUTTON HEAD M10 X 1.50 X 25mm	6
4	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	6
5	200002079	WASHER FLAT M11 23 X 12 X 1.6mm	8
7	200002096	WASHER FLAT M10 34 OD X 11 ID X 3 MM THK	4

HRDW PKG STL LDDR PAN S1/1 HW7705-1

Item	Code	Description	Qty.
4	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	8
5	200002079	WASHER FLAT M11 23 X 12 X 1.6mm	8
10	200002030	SCREW MACH BUTTON HEAD M10 X 1.50 X 30mm	8
11	925963	WASHER 3/8 FLAT 1-1/8 X 7/16 X 3/32	8

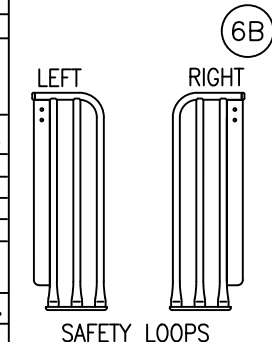
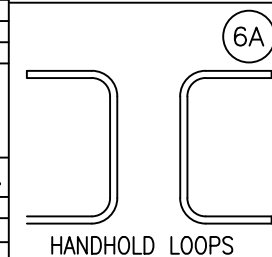
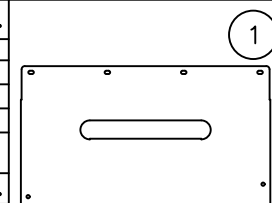
Note: An (*) by a part number (Code) indicates: Color Code Required.

Application

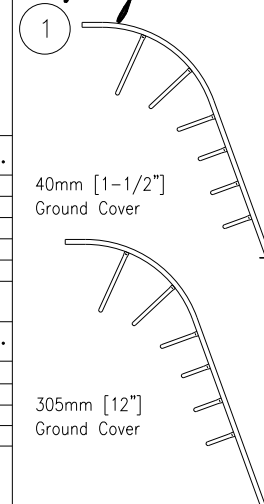
- Cannot be used as sole access to the equipment for ages 2-5 years.
- See Hand/Safety Loop Instruction for further information to determine which loops are required for your application.

Installation Instructions

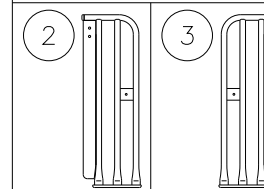
- Install posts and decks. Make sure the deck is level and at the proper height. Install Loops (refer to Hand/Safety Loop Instruction for details).
- Loosely attach the clamps to the lower portion of the Ladder Panel as shown in DETAIL 1.
- Attach the top of the Ladder Panel to the front of the upper deck as shown in DETAIL 2.
- Attach the clamps to the posts (refer to front of manual for clamp installation details).



SAFETY LOOPS SHOWN IN
MAIN VIEW-SEE LOOP
INSTRUCTIONS FOR
INSTALLATION



Number Of Rungs Will Vary With Deck Height



CLIMBER FAN 56\"/>

Item	Code	Description	Qty.
1	-	CLIMBER FAN SURFACE MOUNT	1
2	-	LOOP SAFETY F/KB LEFT (NEW)	1
3	-	LOOP SAFETY F/KB RIGHT (NEW)	1
4	-	KB WING CLAMP	2
5	200001776	ANCHOR CONCRETE WEDGE M10 X 1.50 X 100MM	4

HWDR BAG F/KB FAN/LOOP CLIMBER 200112049

Item	Code	Description	Qty.
6	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	8
7	200002079	WASHER FLAT M11 23 X 12 X 1.6	10
8	200002096	WASHER FLAT M10 340D X 11ID X 3 MM THK	4
9	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	6

Application

- Climbing event: cannot be used as sole access

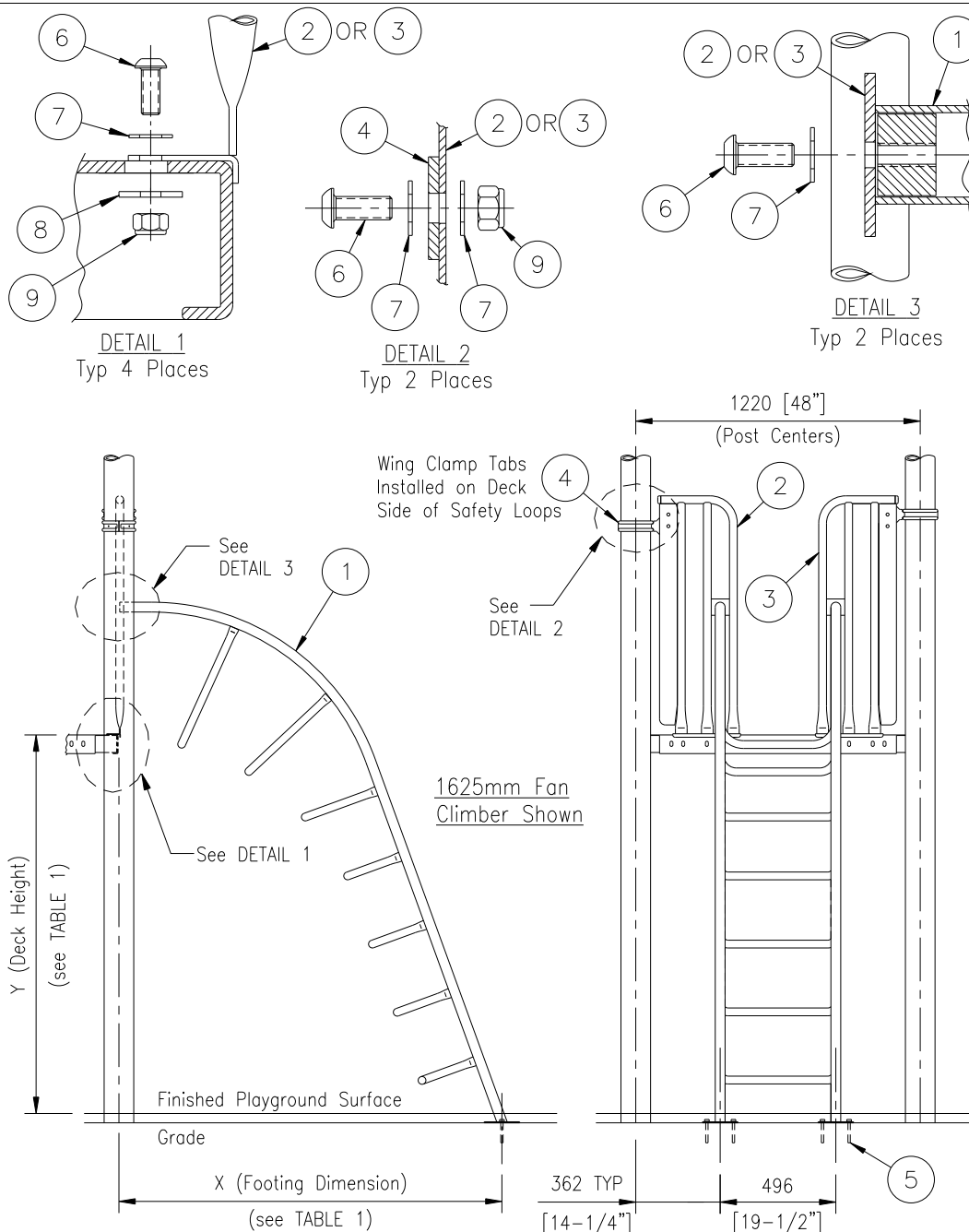
Installation Instructions

1. Prepare footings.
2. Attach the enclosures to the deck as shown in DETAIL 1.
3. Loosely attach wing clamps to the posts (refer to front of manual for clamp installation instruction).
4. Attach the loop plates to the wing clamp tabs as shown in DETAIL 2. Note high side/low side position of clamps. Wing clamp tabs are installed on deck side of safety loops.
5. Attach the top ends of the High Deck Climber to the safety loops as shown in DETAIL 3.
6. Tighten all hardware and install clamp drive pins.
7. Complete footings and install resilient surfacing.

TABLE 1

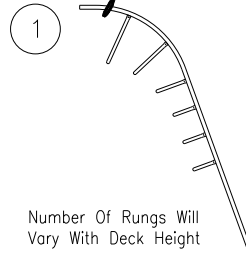
Surface Mount Footing Dimensions

"Y"	"X"	"X"
Deck Height	40mm [1.5"] Ground Cover	305mm [12"] Ground Cover
1422 [56"]	1606 [63-1/4"]	1702 [67"]
1625 [64"]	1680 [66-1/8"]	1776 [70"]
1830 [72"]	1754 [69"]	1851 [72-7/8"]
2035 [80"]	1830 [72"]	1927 [75-7/8"]
2235 [88"]	1904 [75"]	1996 [78-5/8"]
2440 [96"]	1978 [77-7/8"]	2073 [81-5/8"]



NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

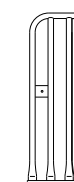
1



2



3



CLIMBER FAN 56"/1422mm F/KB 200102486
CLIMBER FAN 64"/1625mm F/KB 200102487
CLIMBER FAN 72"/1830mm F/KB 200102488
CLIMBER FAN 80"/2035mm F/KB 200202193
CLIMBER FAN 88"/2235mm F/KB 200202194
CLIMBER FAN 96"/2440mm F/KB 200202195

Item	Code	Description	Qty.
1	-	CLIMBER FAN INGROUND MOUNT	1
2	-	LOOP SAFETY F/KB LEFT (NEW)	1
3	-	LOOP SAFETY F/KB RIGHT (NEW)	1
4	-	KB PANEL WING CLAMP	2

HDWR BAG F/KB FAN/LOOP CLIMBER 200112049

Item	Code	Description	Qty.
5	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	8
6	200002079	WASHER FLAT M11 23 X 12 X 1.6	10
7	200002096	WASHER FLAT M10 34OD X 11ID X 3 MM THK	4
8	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	6

Application

- Climbing event: cannot be used as sole access

Installation Instructions

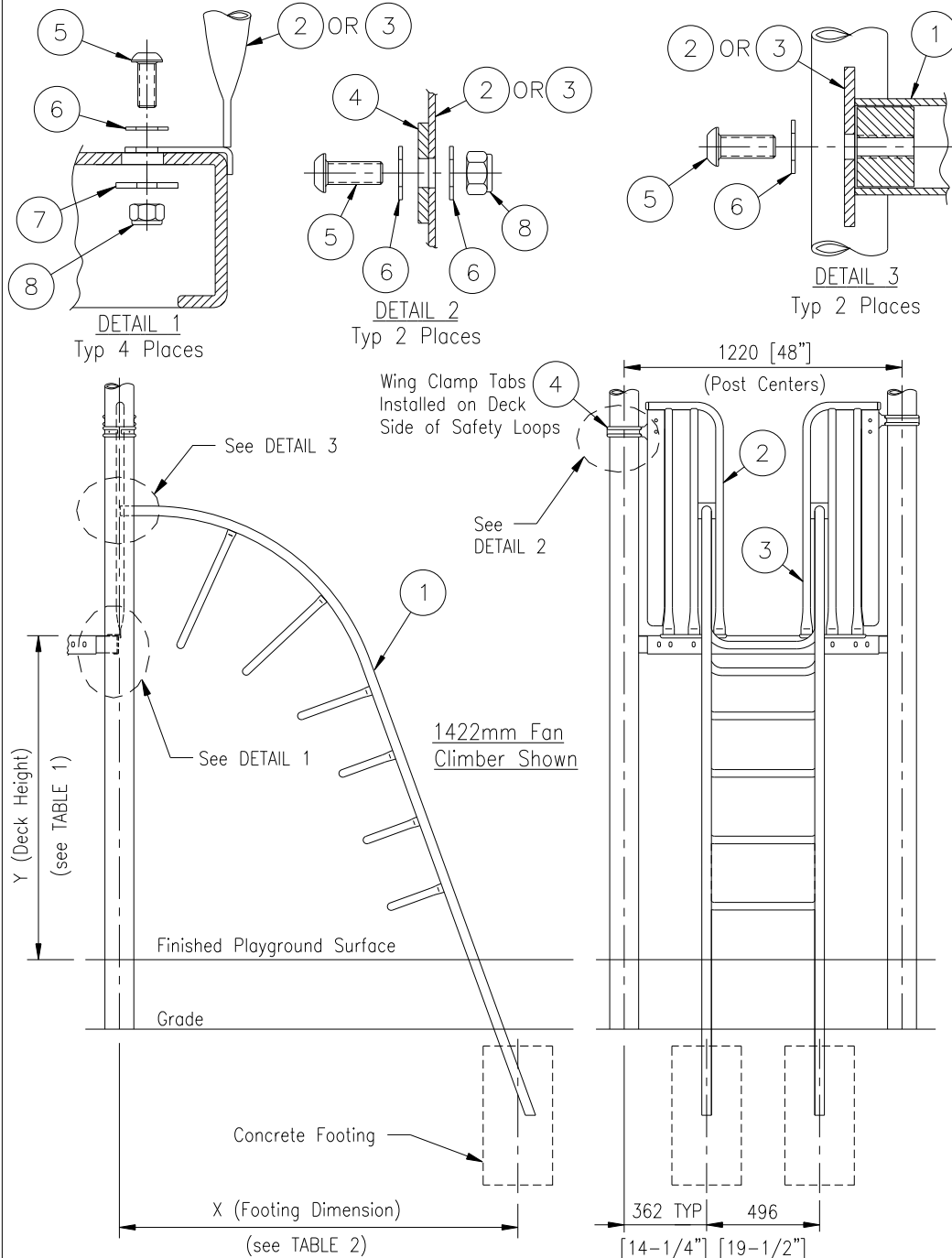
1. Prepare footings.
2. Attach the enclosures to the deck as shown in DETAIL 1.
3. Loosely attach wing clamps to the posts (refer to front of manual for clamp installation instruction).
4. Attach the loop plates to the wing clamp tabs as shown in DETAIL 2. Note high side/low side position of clamps. Wing clamp tabs are installed on deck side of safety loops.
5. Attach the top ends of the High Deck Climber to the safety loops as shown in DETAIL 3.
6. Tighten all hardware and install clamp drive pins.
7. Complete footings and install resilient surfacing.

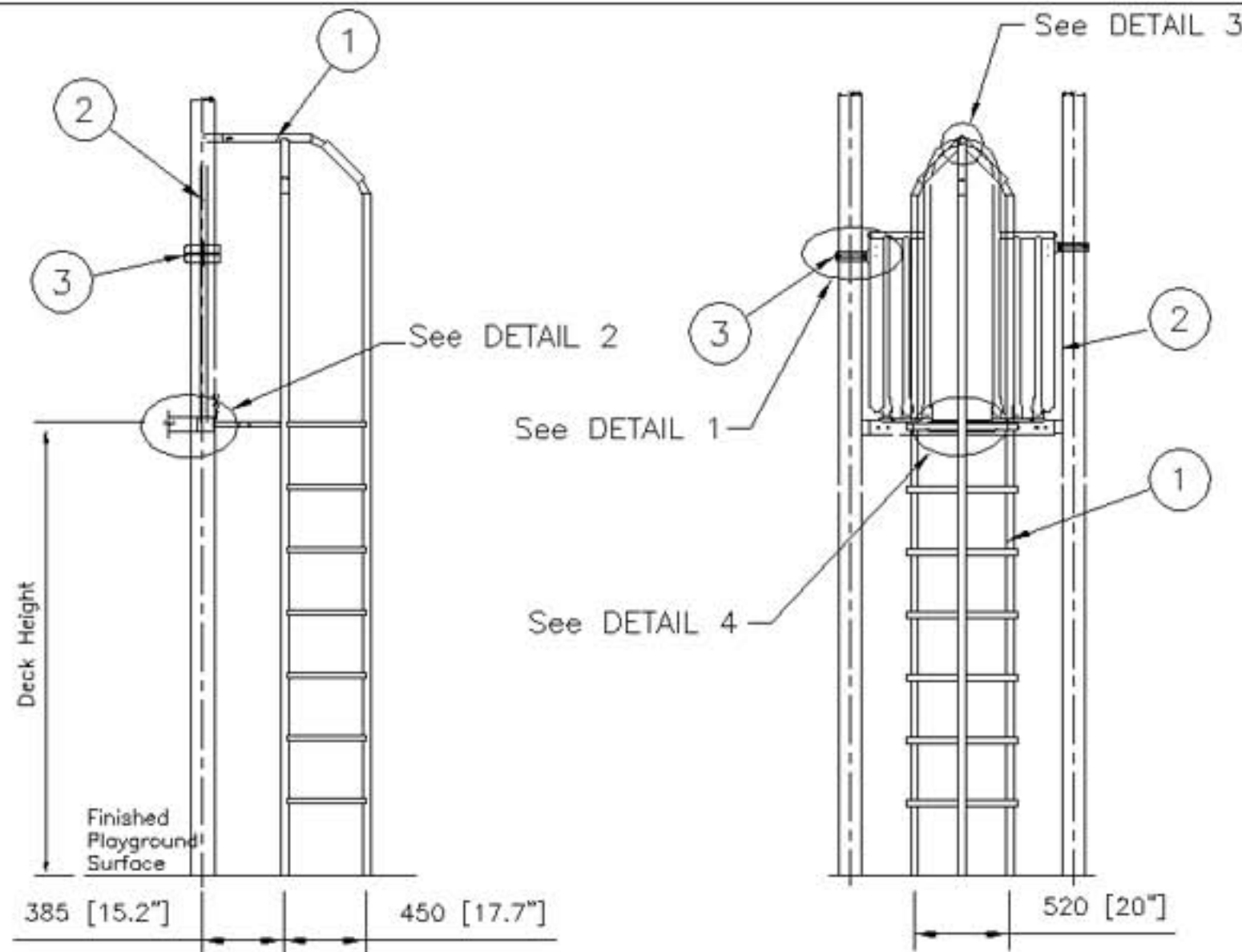
TABLE 2

Inground Mount Footing Dimensions

"Y" Deck Height	"X" 305mm [12"] Ground Cover
1422 [56"]	1787 [70-3/8"]
1625 [64"]	1861 [73-1/4"]
1830 [72"]	1954 [76-7/8"]
1930 [76"]	1972 [77-5/8"]
2035 [80"]	2102 [82-3/4"]
2235 [88"]	2176 [85-5/8"]
2440 [96"]	2176 [85-5/8"]

[NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS]





200202420	KB SILO CLIMBER 2400(96\")
200202411	KB SILO CLIMBER 2235(88\")
200202412	KB SILO CLIMBER 2050(80\")
200202403	KB SILO CLIMBER 1850(72\")

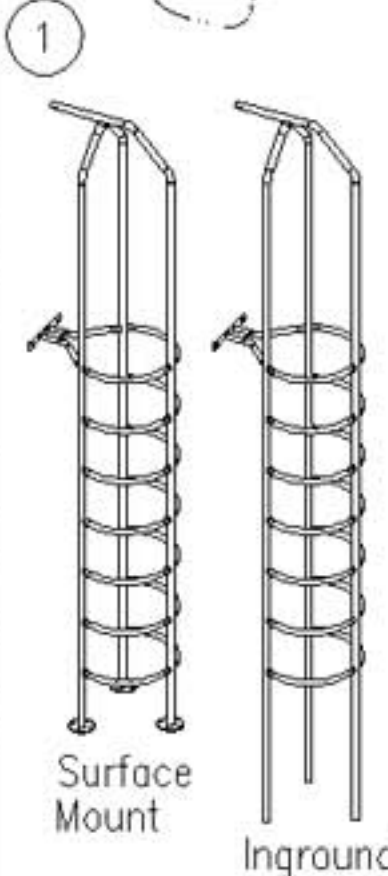
Item	Code	Description	Qty.
1	-	CLIMBER SILO	1
2	-	ENCL.SUPP.F/KB VERT.CLMB	1
3	-	CLAMP WING F/KB ASSY	2

HDWR BAG F/KB SILO CLIMBER 200193941

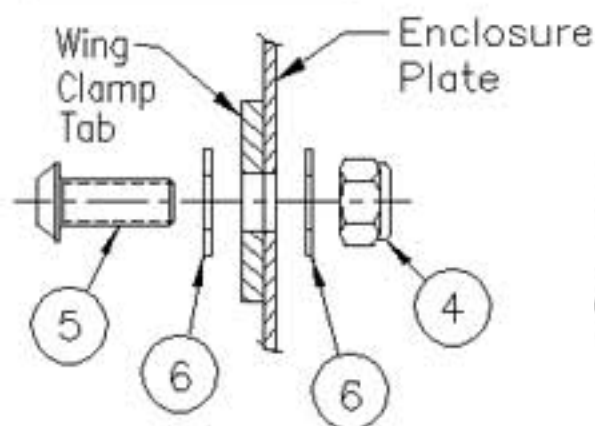
Item	Code	Description	Qty.
4	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	9
5	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	9
6	200002079	WASHER FLAT M11 23 X 12 X 1.6	14
7	200002100	WASHER FLAT M11 32OD X 13ID X 2MM S.S.	4
8	200002138	BOLT M8 X 1.25 MALE 42.5MM	1
9	200002145	BOLT M8 X 1.25 FEMALE 10.3 X 30MM	1
10	200008483	WASHER BOWED M11 23.5 X 11.7 X 1.57MM	2

Installation Instructions

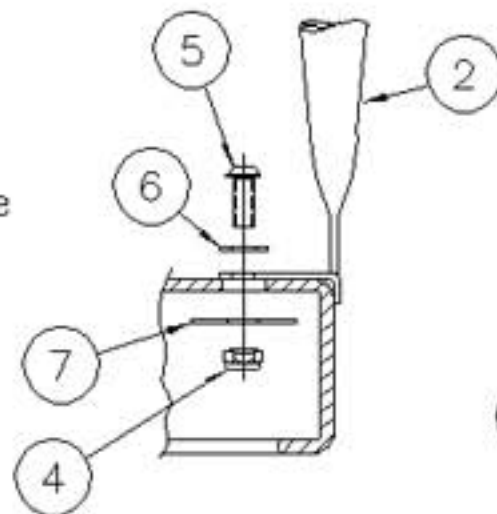
1. Prepare footings.
2. Loosely attach the clamps to the enclosure (Item 2, refer to DETAIL 1).
3. Loosely attach enclosure to the post with clamps (refer to front of manual for clamp installation details) and to the deck (refer to DETAIL 2).
4. Lift the climber into place and attach to the enclosure (refer to DETAIL 3) and to the deck edge (refer to DETAIL 4).
5. Check for level/plumb, tighten all hardware and install clamp hammer drive pins.
6. Complete footings and install resilient surfacing.



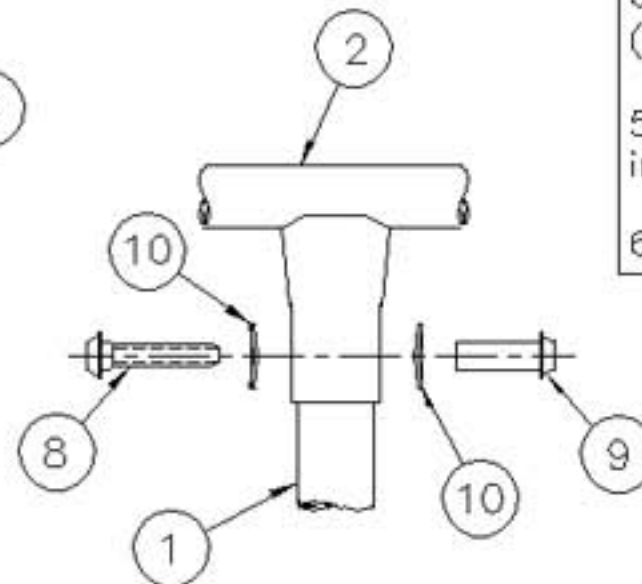
NOTE: Wing clamp tabs are installed on deck side of support enclosure.



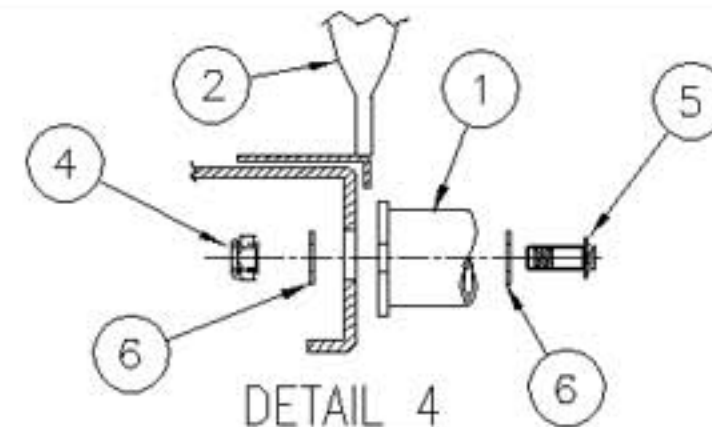
DETAIL 1
Typ 2 Places



DETAIL 2
Typ 4 Places



DETAIL 3

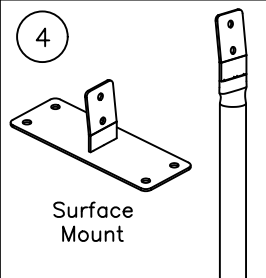
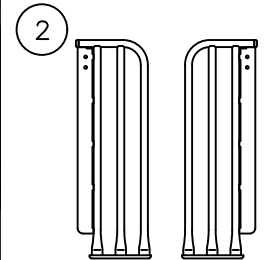
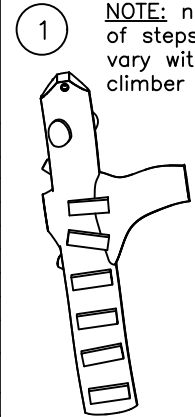


DETAIL 4
Typ 3 Places

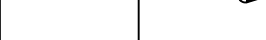
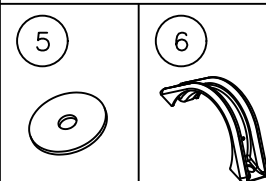
NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

AUTHORIZED BY: 03NOV23
KATHY GEYER

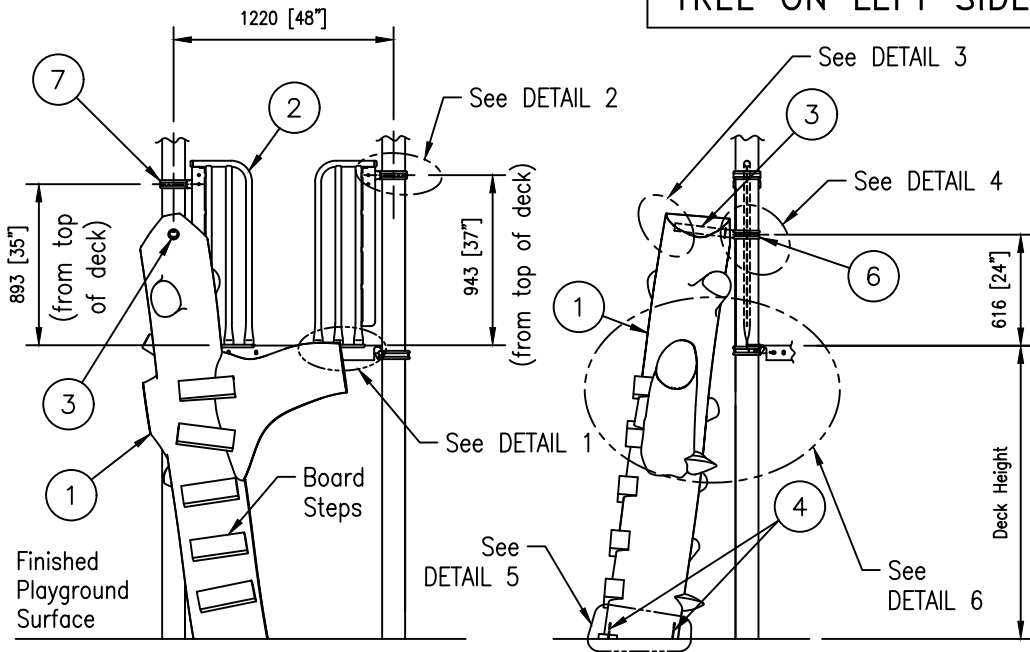
NOTE: number of steps will vary with climber height



Surface Mount
Inground Mount



TREE ON LEFT SIDE



NU-EDGE TREE 1830mm [72"] W/KB SAFETY LOOPS
200202732

NU-EDGE TREE 1625mm [64"] W/KB SAFETY LOOPS
200202733

NU-EDGE TREE 1422mm [56"] W/KB SAFETY LOOPS
200202734

Item	Code	Description	Qty.
1	-	NU-EDGE TREE	1
2	-	SAFETY LOOPS W/O TAB F/KB (LEFT AND RIGHT)	1
3	-	POST BRACKET KB F/NU-EDGE TREE	1
4	-	SUPPORT F/NU-EDGE TREE	2
5	-	PLATE CIRCLE F/NU-EDGE TREE MOUNTING	1
6	-	CLAMP HALF KB	1
7	-	ASSY CLAMP WING F/KB	2

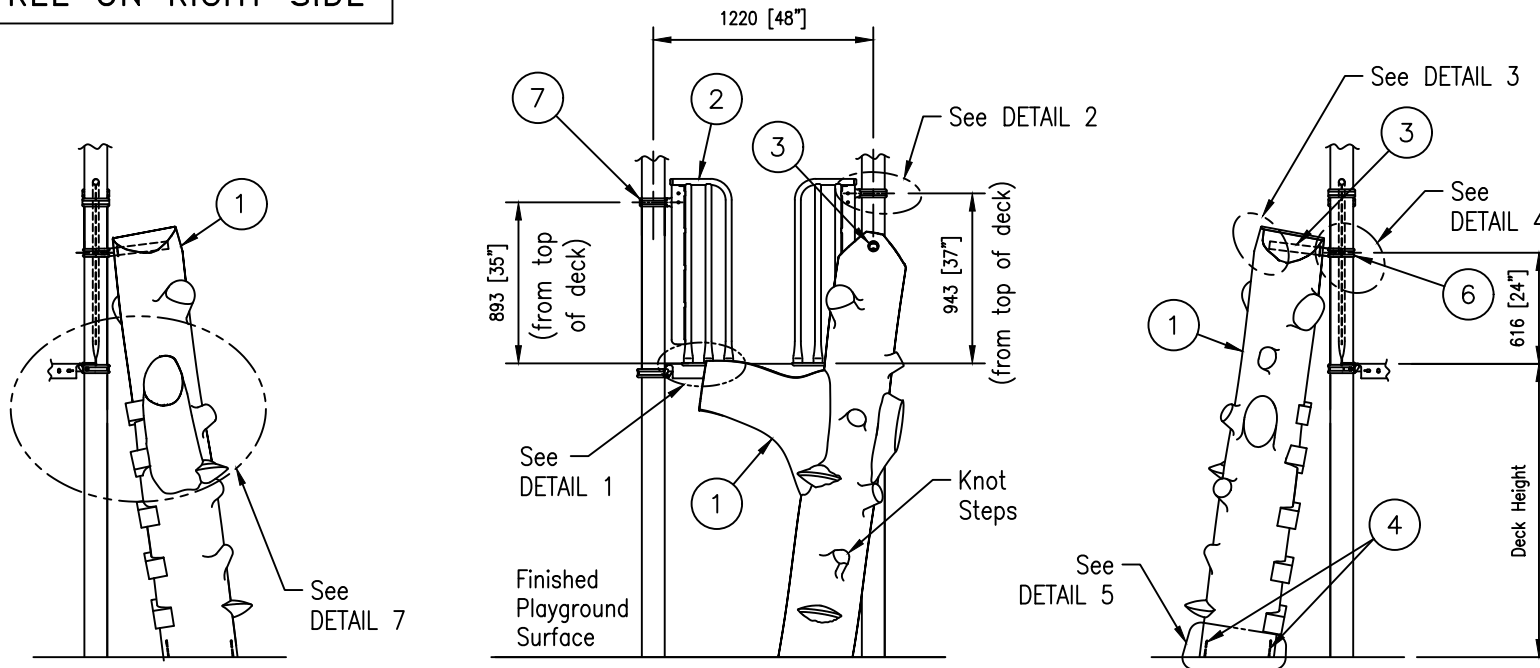
HDWR BAG F/KB TREE W/SAFETY LOOPS 200304862

Item	Code	Description	Qty.
8	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	7
9	200002150	SCREW MACH BUTTONHEAD M10 X 1.5 X 55 MM	2
10	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	8
11	200002079	WASHER FLAT M11 23 X 12 X 1.6	12
12	200002096	WASHER FLAT M10 34 OD X 11ID X 3MM THK	4

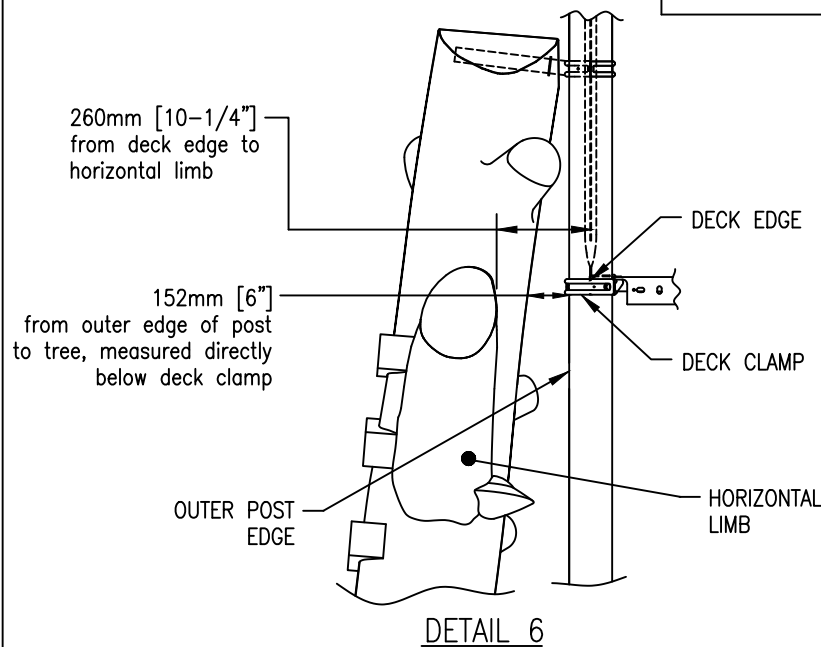
HARDWARE BAG F/HALF CLAMP ASSEMBLY

Item	Code	Description	Qty.
8	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	2
13	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5MM	2
14	200000797	HAMMER DRIVE PIN 4.7 X 11.11MM	2

TREE ON RIGHT SIDE



TREE ON LEFT SIDE



Application

- Cannot be used as sole access to equipment.

Installation Instructions

1. Prepare footings. Use 406mm [16\"] minimum diameter footings for surface mount installations using concrete pier footings.

2. Loosely attach the wing clamps to the posts (refer to front of manual for clamp installation details). Wing clamp tabs are installed on deck side of safety loops.

3. Lift left and right safety loops into place and loosely attach to deck (refer to DETAIL 1).

4. Loosely attach safety loops to wing clamps (refer to DETAIL 2).

5. Install post bracket through hole in top of tree (refer to DETAIL 3).

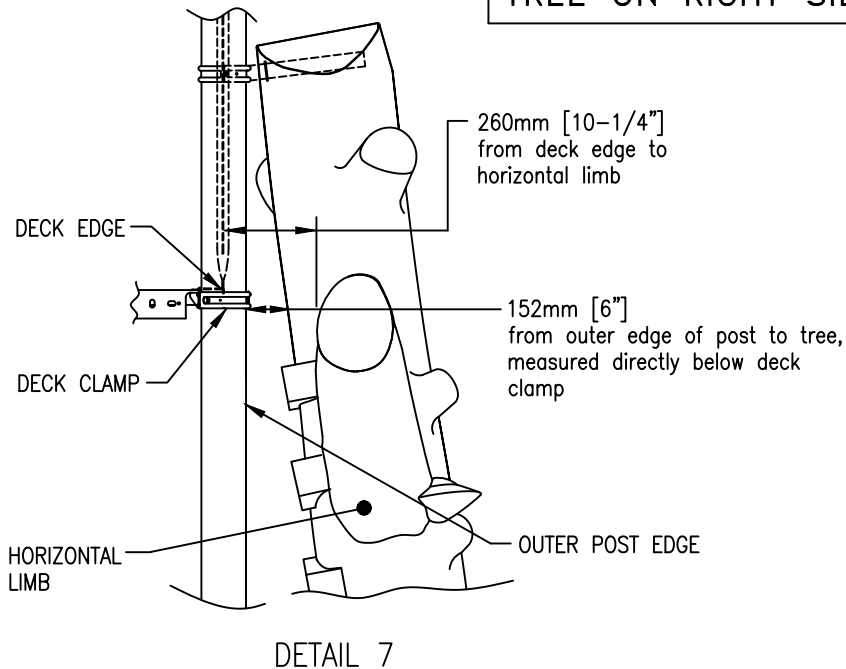
6. Install tree supports on bottom of tree (refer to DETAIL 5).

7. Lift tree into place and attach post bracket to post with half clamp (item 6) (refer to DETAIL 4).

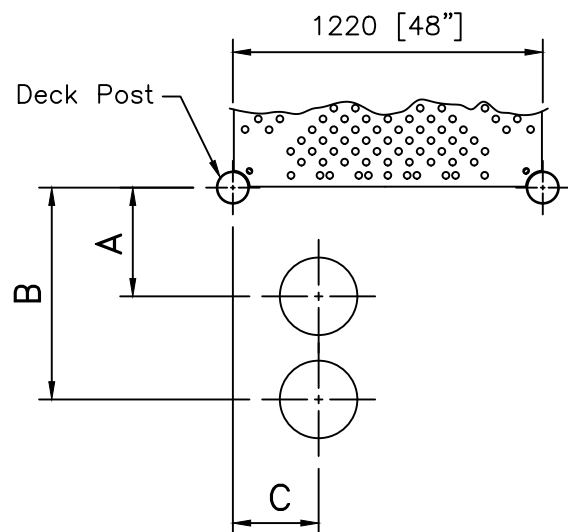
8. Check for level/plumb, tighten all hardware and install clamp hammer drive pins.

9. Complete footings and install safety surfacing.

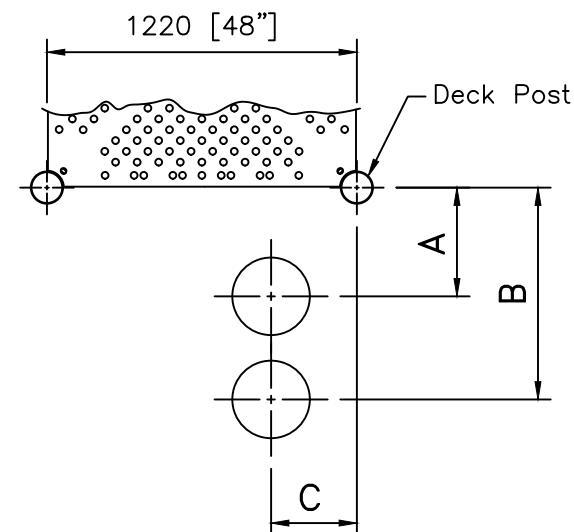
TREE ON RIGHT SIDE



FOOTING LAYOUTS



Tree on Left Side of Deck

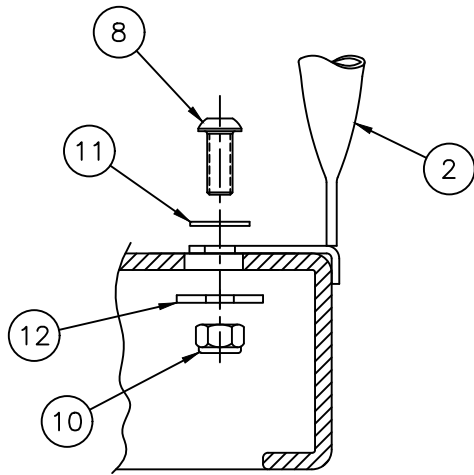


Tree on Right Side of Deck

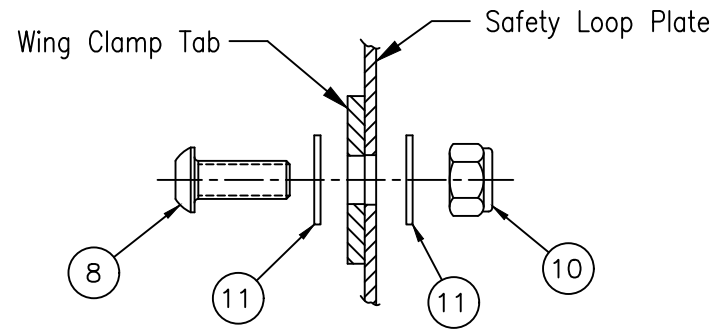
Footing Dimension Table

Deck Height	Ground Cover Options					
	Surface Mount 40mm [1-1/2"]			Surface Mount / Inground Mount 305mm [12"]		
	A	B	C	A	B	C
1830mm [72"]	403 [16"]	809 [32"]	313 [12 1/2"]	428 [17"]	834 [33"]	338 [13 1/2"]
1625mm [64"]	379 [15"]	785 [31"]	288 [11 1/2"]	403 [16"]	809 [32"]	313 [12 1/2"]
1422mm [56"]	354 [14"]	760 [30"]	263 [10 1/2"]	379 [15"]	785 [31"]	288 [11 1/2"]

NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS

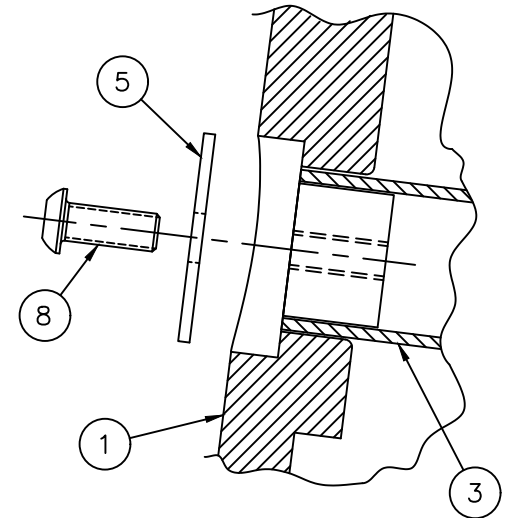


DETAIL 1
Typ 4 Places

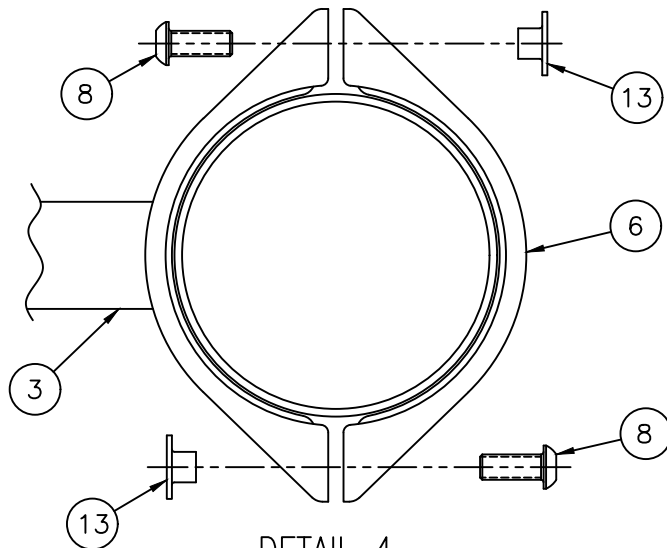


DETAIL 2
Typ 2 Places

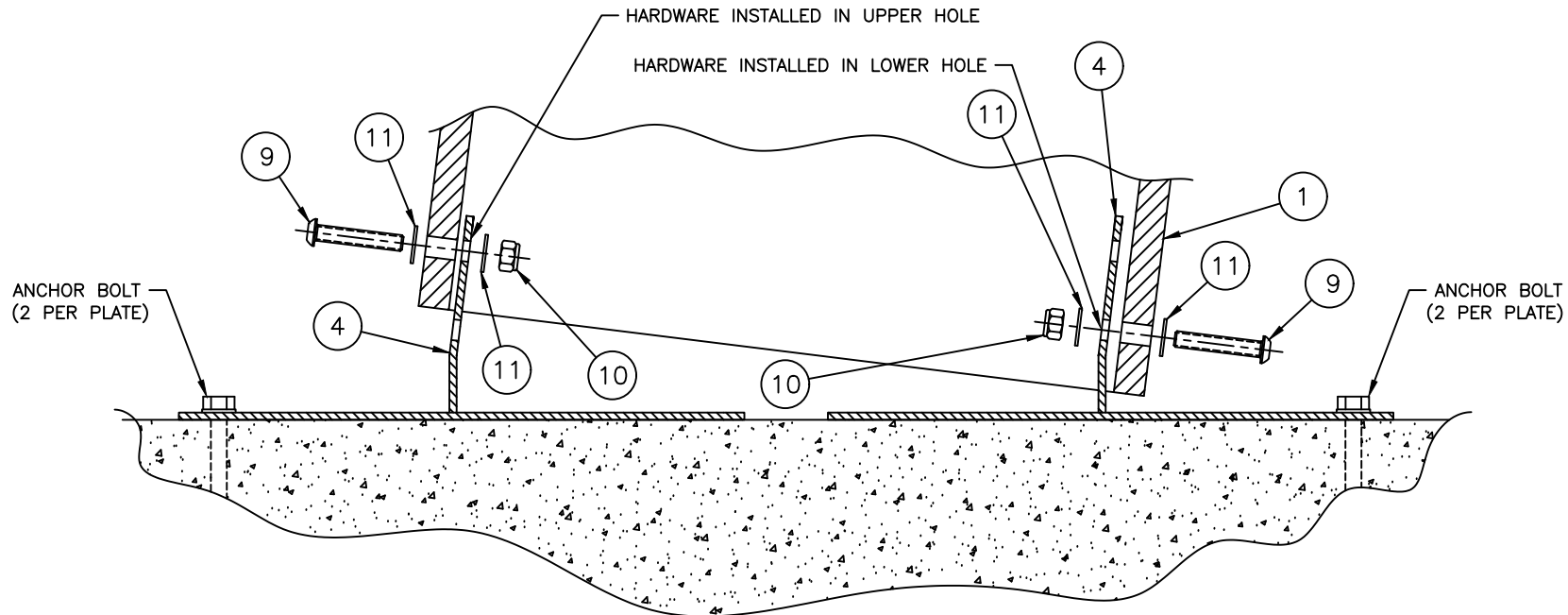
NOTE: Wing clamp tabs are installed on deck side of safety loops.



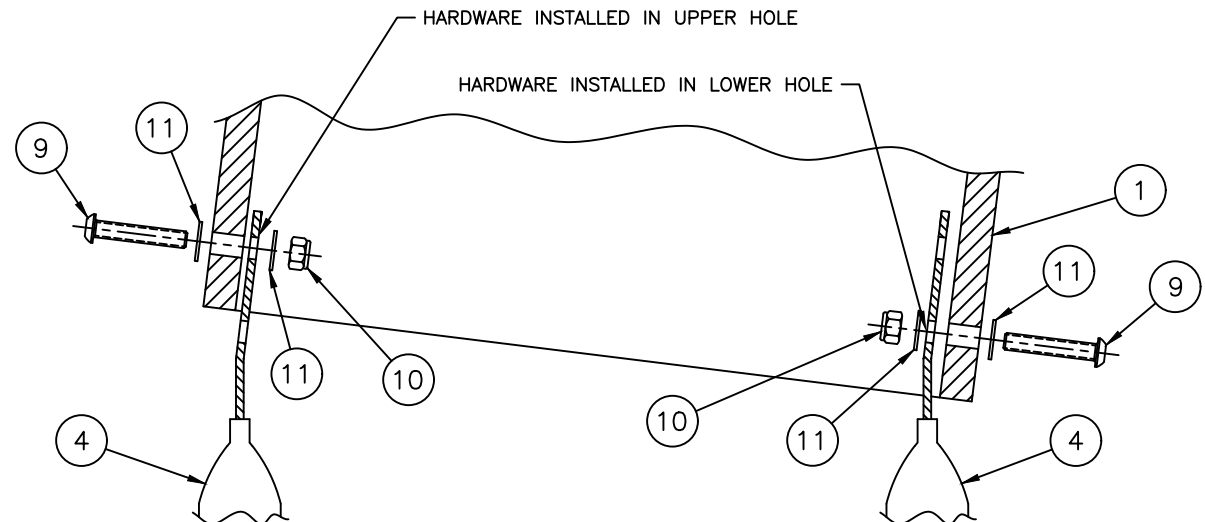
DETAIL 3



DETAIL 4



DETAIL 5 (SURFACE MOUNT)



DETAIL 5 (INGROUND MOUNT)



NU-Edge™ (NATURAL URBAN EDGE™) Arched Log Climb F/KB made with Naturtek™

KB300421F

Sheet 1 of 3

AUTHORIZED BY: 06DEC21

Kathy Semoni

NU-EDGE ARCHED LOG CLIMB 1625MM (64") F/KB 200202778
 NU-EDGE ARCHED LOG CLIMB 1420MM (56") F/KB 200202779
 NU-EDGE ARCHED LOG CLIMB 1220MM (48") F/KB 200202780
 NU-EDGE ARCHED LOG CLIMB 1016MM (40") F/KB 200202781
 NU-EDGE ARCHED LOG CLIMB 815MM (32") F/KB 200202782

Item	Code	Description	Qty.
1A	910971*	NU-EDGE ARCH LOG CLIMB 64" SM	1
1B	910970*	NU-EDGE ARCH LOG CLIMB 64" 305SM	
1C	910969*	NU-EDGE ARCH LOG CLIMB 64" ING	
2A	910956*	ARCH LOG HAND SUPPORT 64" SM	1
2B	910955*	ARCH LOG HAND SUPPORT 64" 305SM	
2C	910954*	ARCH LOG HAND SUPPORT 64" ING	
3	910316*	LOOP SAFETY LEFT W/O TAB LFT F/KB	1
4	910313*	LOOP SAFETY RIGHT W/TAB RGT F/KB	1
5	924027	LOG W/HARDWARE BAG	6*
6	909257*	CLAMP WING F/KB (2001)	2
7	HW302472-1	HRDW PKG KB ARCH LG CLMB M1/1	1

* Quantity will vary according to deck height
 Note: An (*) by a part number (Code) indicates: Color Code Required.

HRDW PKG KB ARCH LG CLMB M1/1 - HW302472-1

Item	Code	Description	Qty.
8	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	8
9	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	9
10	200002079	WASHER FLAT M11 23 X 12 X 1.6	13
11	117007	WASHER 7/16 FLAT 18-8 SS	4

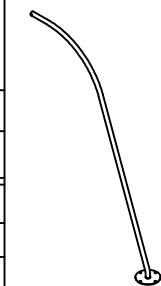
LOG W/HARDWARE BAG - 924027

Item	Code	Description	Qty.
12	117005	WASHER 3/8 X 1 O.D. FLAT 18-8 SS	4
13	104930	BOLT 3/8-16 X 1 1/8 BHCS 6 LOBE 18-8 SS	4
14	924026	LOG DRILLED F/LOG CLIMB	1

Application

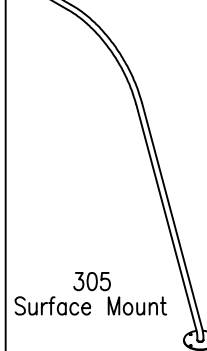
- Cannot be used as sole access to equipment.

2A

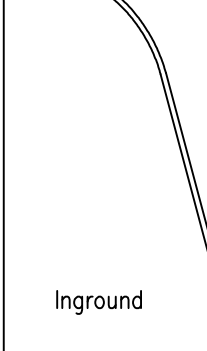


Surface Mount

2B

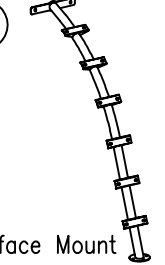

 305
Surface Mount

2C



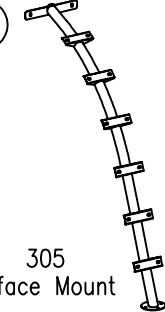
Inground

1A

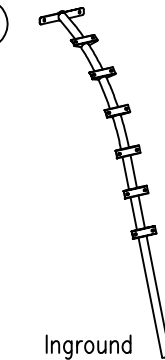


Surface Mount

1B


 305
Surface Mount

1C

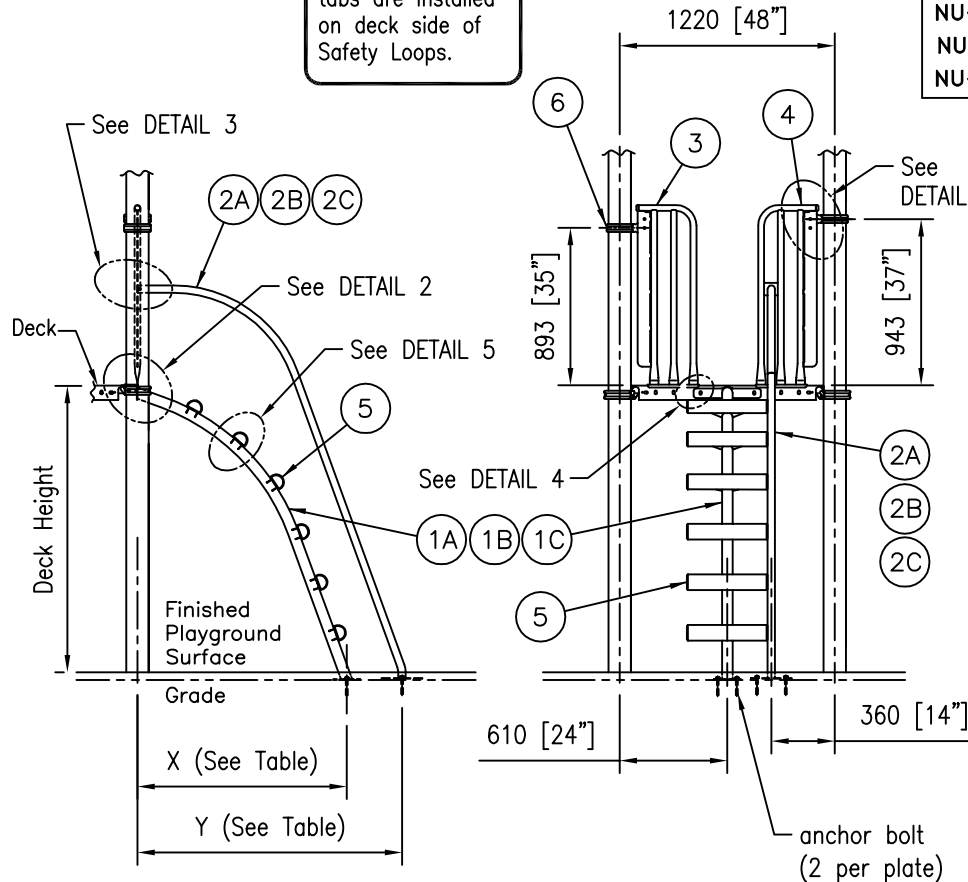


Inground

NOTE: number of steps will vary with climber height

Deck Height	# of Steps
1625mm [64"]	6
1420mm [56"]	5
1220mm [48"]	5
1016mm [40"]	4
815mm [32"]	3

NOTE: Wing clamp tabs are installed on deck side of Safety Loops.



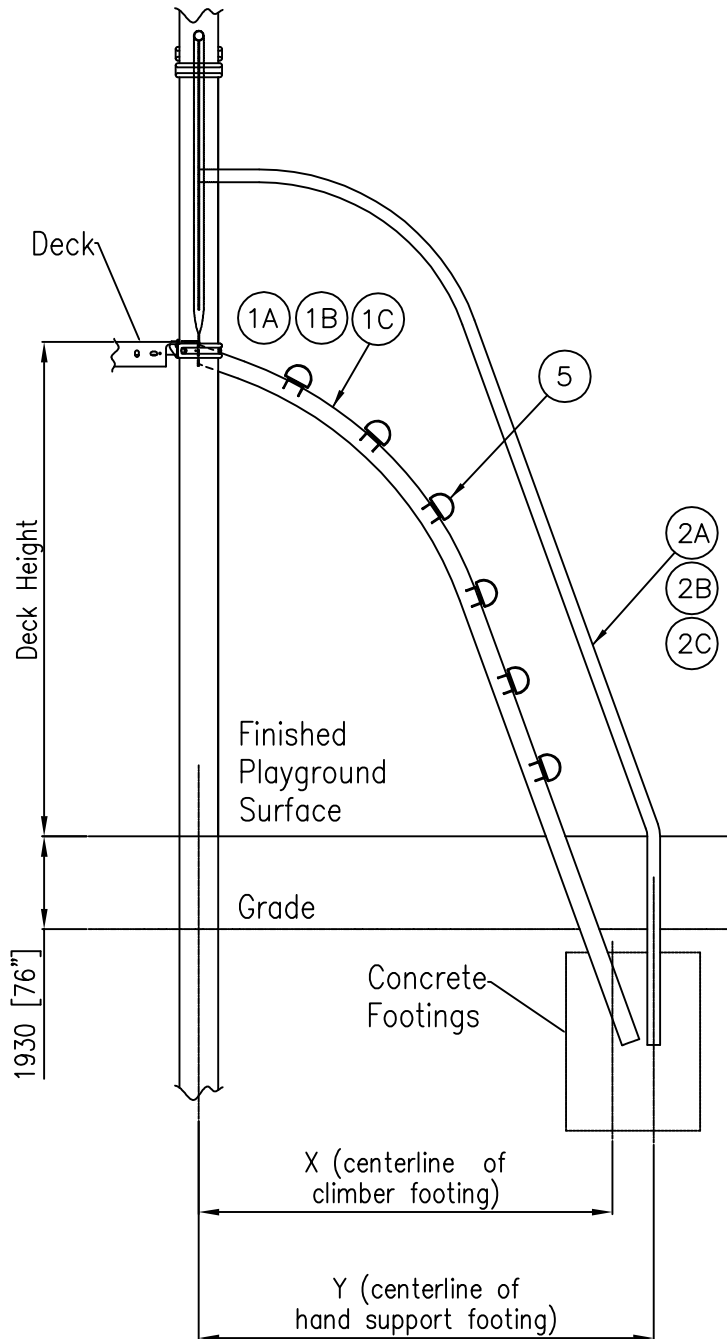
Surface Mount Option shown

"X" Footing Dimension Table

Deck Height	Ground Cover Options		
	Surface Mount 40mm [1 1/2"]	Surface Mount 305mm [12"]	Inground 305mm [12"]
1625 [64"]	1192 [47"]	1288 [50 1/2"]	1367 [54"]
1420 [56"]	1116 [44"]	1213 [48"]	1293 [51"]
1220 [48"]	1042 [41"]	1139 [45"]	1220 [48"]
1016 [40"]	969 [38"]	1065 [42"]	1146 [45"]
815 [32"]	896 [35 1/2"]	992 [39"]	1073 [42"]

"Y" Footing Dimension Table

Deck Height	Y
1625 [64"]	1495 [59"]
1420 [56"]	1421 [56"]
1220 [48"]	1347 [53"]
1016 [40"]	1273 [50"]
815 [32"]	1199 [47"]



Inground Mount Option shown

Installation Instructions

1. Prepare footings.
2. Loosely attach the clamps to the safety loops (see DETAIL 1).
3. Loosely attach the left and right safety loops to the posts with clamps (refer to front of manual for clamp installation details), and to the deck as shown in DETAIL 2.
4. Loosely attach the Hand Support (item 2A, 2B OR 2C) to the right safety loop with tab (item 4) as shown in DETAIL 3.
5. Attach Nu-Edge Arched Log Climber (item 1A, 1B OR 1C) to deck face as shown in DETAIL 4.
6. Attach logs (item 5) using hand tools ONLY (drill drivers should NOT BE USED), to Nu-Edge Arched Log Climber (item 1A, 1B OR 1C) as shown in DETAIL 5. Torque to 50 IN-LB using hand tools only.
7. Check for level/plumb, tighten all hardware and install clamp hammer drive pins.
8. Complete footings and install resilient surfacing.

Maintenance Torque Information

When performing maintenance to verify attachment of logs to Nu-Edge Arch Log Climb torque to 50 in-lbs using hand tools only.

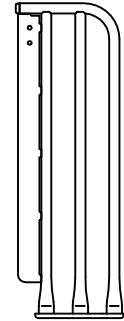
NOTE:

See sheet 1 for X and Y dimension tables.

AUTHORIZED BY:
Kathy Semoni

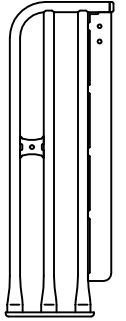
06DEC21

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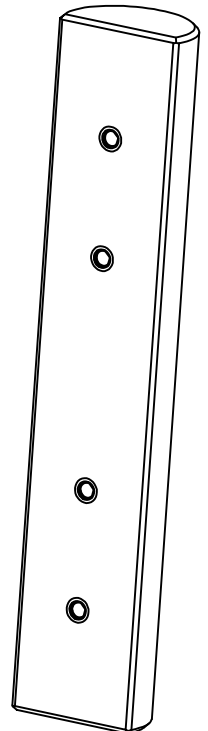
Left
(no Tab)

4



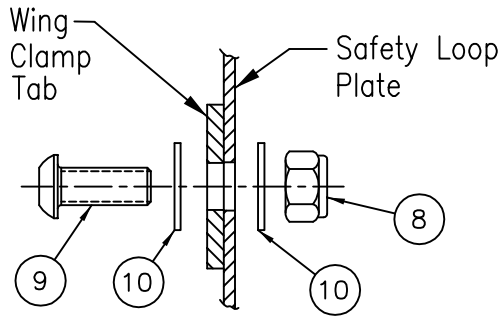
Right
(with Tab)

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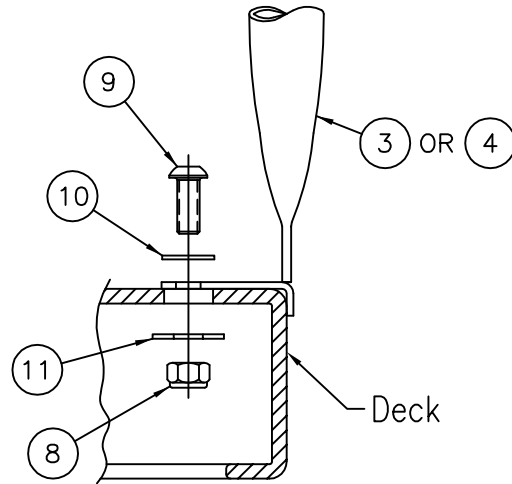




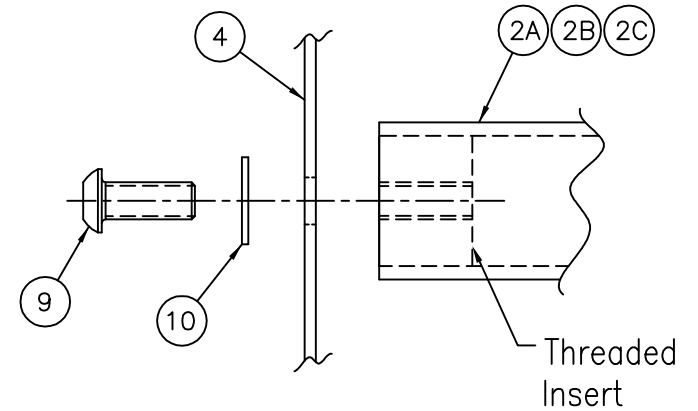
NU-Edge™ (NATURAL URBAN EDGE™) Arched Log Climb F/KB made with Naturtek™



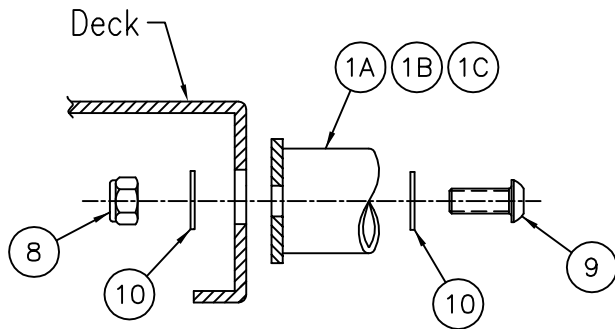
DETAIL 1
Typ 2 Places



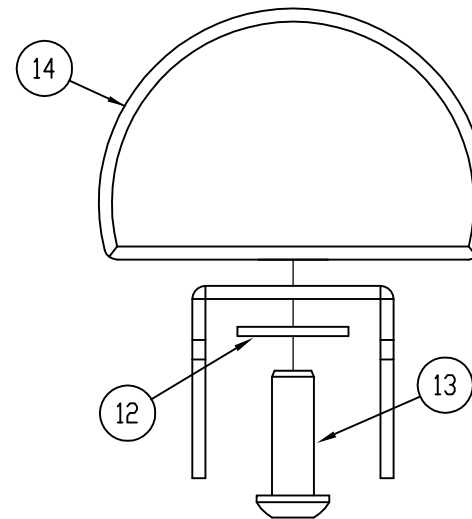
DETAIL 2
Typ 4 Places



DETAIL 3



DETAIL 4
Typ 2 Places



DETAIL 5
Typ 4 Places
per Log

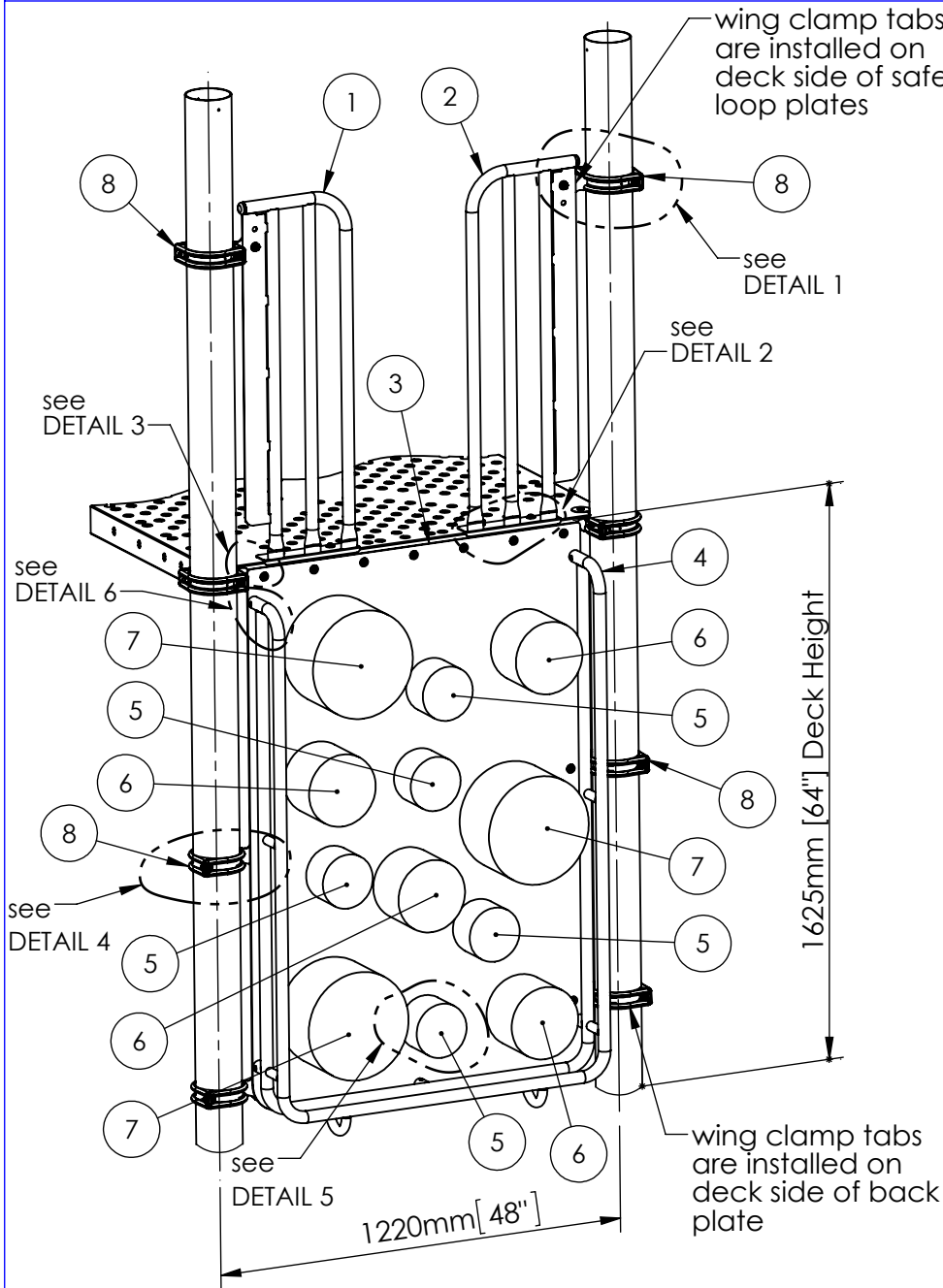
INST F/KB NU EDGE-X LUMBERJACK CLIMB 64"/72" KB

200313428

KB300437A

SHEET 1 OF 4

AUTHORIZED BY: 08FEB16
CHRIS NEWBURY



NU EDGE-X LUMBERJACK CLIMB 64" KB 200203427

ITEM	PART NO.	DESCRIPTION	QTY
1	...	KB SAFETY LOOP LEFT W/O TAB	1
2	...	KB SAFETY LOOP RIGHT W/O TAB	1
3	907563	LUMBERJACK BACK PLATE 64"	1
4	907556	FRAME WELD F/64" LUMBERJACK FRAME	1
5	907547	LUMBERJACK STUMP SMALL 6"	5
6	907548	LUMBERJACK STUMP MED 8"	4
7	907549	LUMBERJACK STUMP BIG 12"	3
8	...	KB WING CLAMP ASSEMBLY	6

HARDWARE BAG HW3427-1

9	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	58
10	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	17
11	200002079	WASHER FLAT M11 23 X 12 X 1.6MM	30
12	200002100	WASHER FLAT M11 32OD X 13ID X 2MM THK S.S.	41
13	200002096	WASHER FLAT M10 34 OD X 11 ID X 3 MM SS	4

Installation Instructions

1. Place safety loops on deck top and attach to posts with wing clamps as shown in DETAIL 1. See KB000010 for wing clamp installation details.
2. Attach bottom of safety loops to deck as shown in DETAIL 2.
3. Place top of back plate against deck face and align holes (lower wing clamp holes are on left side as shown in main view). Install hardware as shown in DETAIL 3.
4. Loosely attach wing clamps to sides of back plate and posts as shown in DETAIL 4. Wing clamp tabs are on deck side of back plate.
5. Attach small, medium, and big stumps to back plate as shown in DETAIL 5.
6. Attach frame to back plate as shown in DETAIL 6.
7. Tighten all hardware and install resilient safety surfacing.

1625mm [64"] MAIN VIEW

[NOTE: FOR UNDERSURFACING & FOOTINGS REFER TO SEPARATE INSTRUCTIONS]

INST F/KB NU EDGE-X LUMBERJACK CLIMB 64"/72" KB

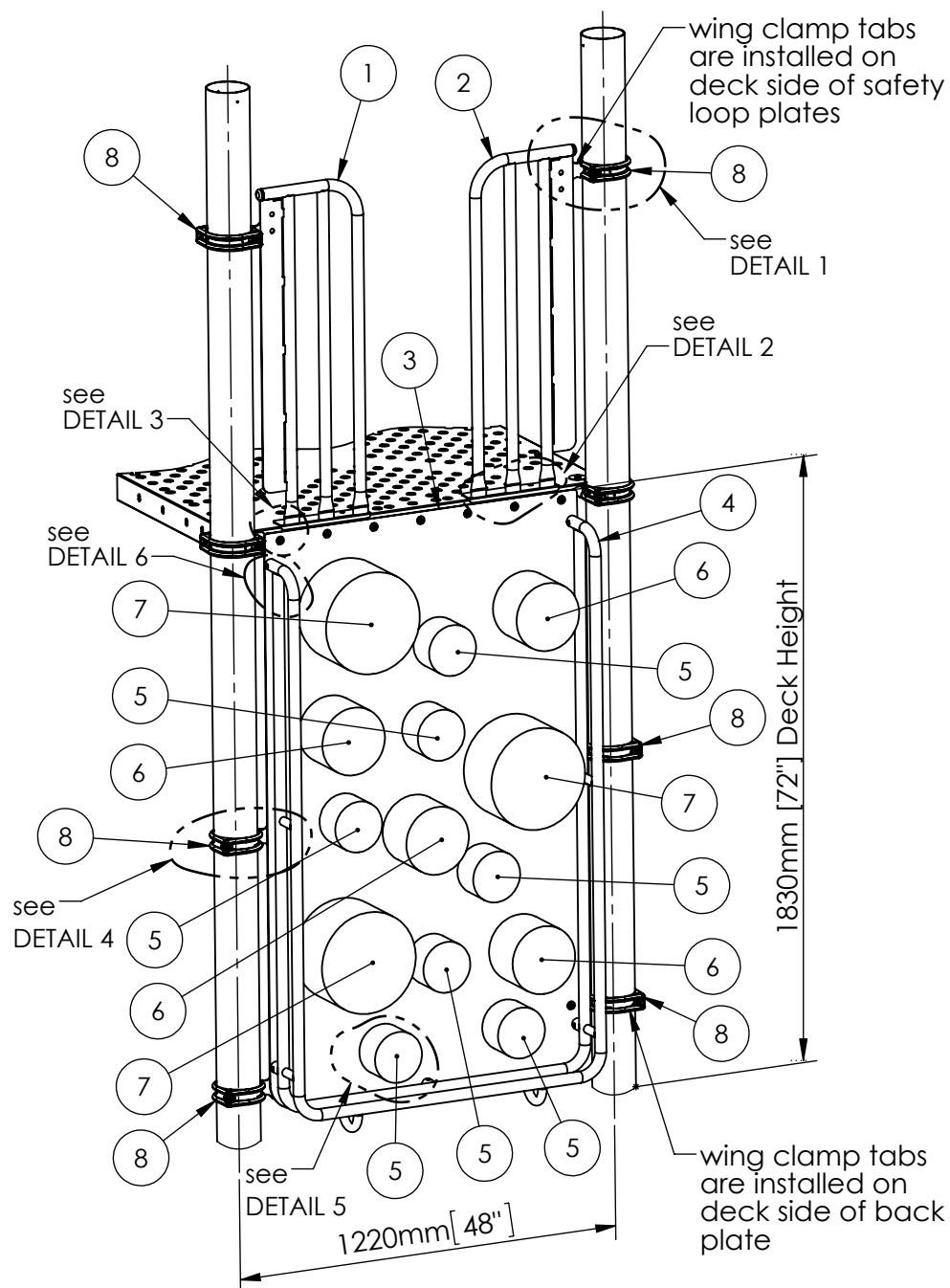
200313428

KB300437A

SHEET 2 OF 4

AUTHORIZED BY: 08FEB16

CHRIS NEWBURY



NU EDGE-X LUMBERJACK CLIMB 72" KB 200203426

ITEM	PART NO.	DESCRIPTION	QTY
1	...	KB SAFETY LOOP LEFT W/O TAB	1
2	...	KB SAFETY LOOP RIGHT W/O TAB	1
3	907562	LUMBERJACK BACK PLATE 72"	1
4	907553	FRAME WELD F/72" LUMBERJACK FRAME	1
5	907547	LUMBERJACK STUMP SMALL 6"	7
6	907548	LUMBERJACK STUMP MED 8"	4
7	907549	LUMBERJACK STUMP BIG 12"	3
8	...	KB WING CLAMP ASSEMBLY	6

HARDWARE BAG HW3426-1

9	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	64
10	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	17
11	200002079	WASHER FLAT M11 23 X 12 X 1.6MM	30
12	200002100	WASHER FLAT M11 32OD X 13ID X 2MM THK S.S.	47
13	200002096	WASHER FLAT M10 34 OD X 11 ID X 3 MM SS	4

INST F/KB NU EDGE-X LUMBERJACK CLIMB 64"/72" KB

200313428

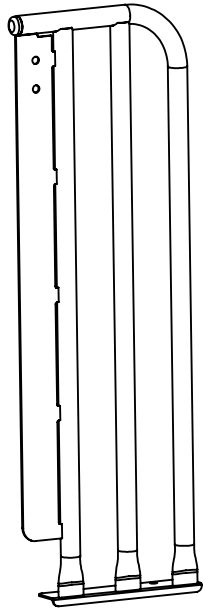
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SHEET 3 OF 4

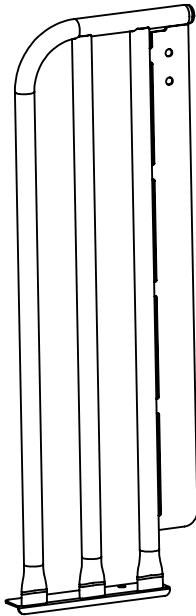
AUTHORIZED BY: 08FEB16

CHRIS NEWBURY

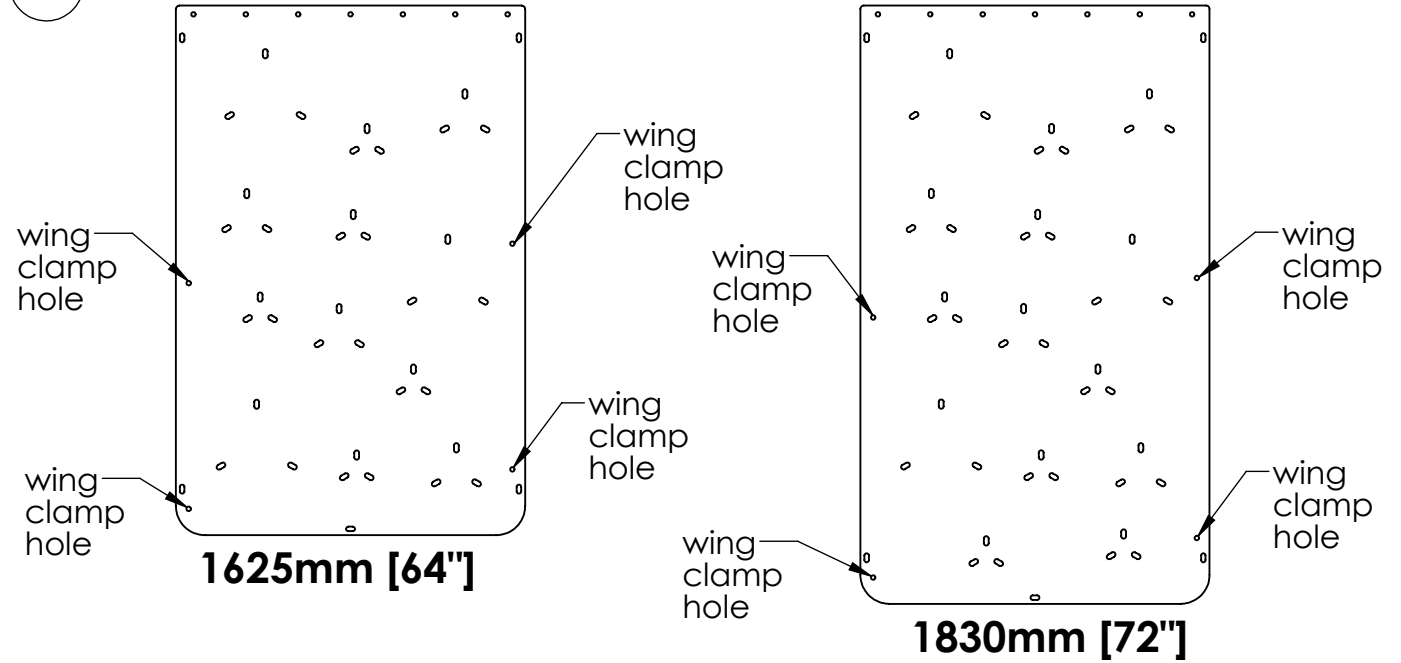
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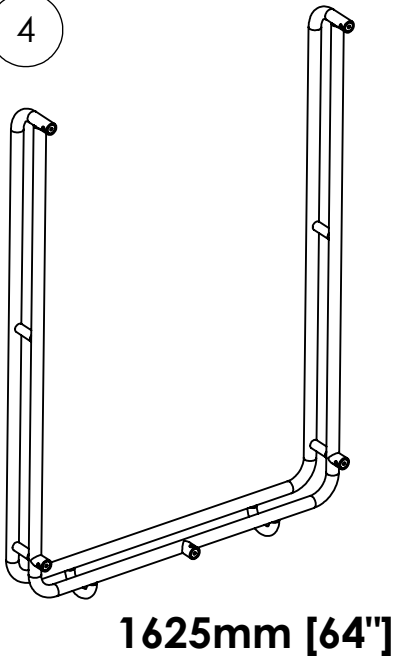
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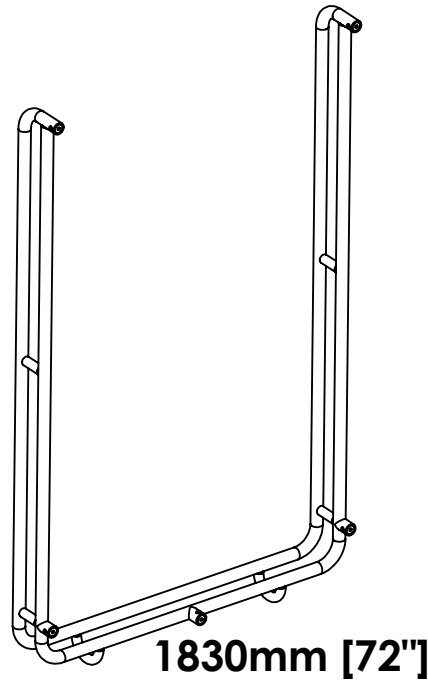
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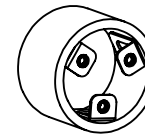


1625mm [64"]

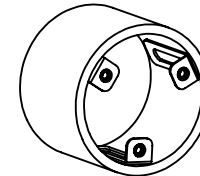


1830mm [72"]

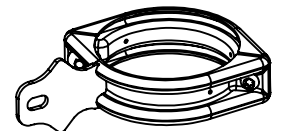
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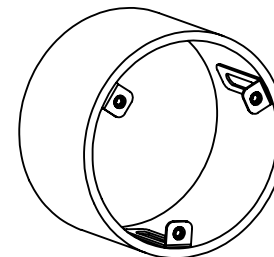
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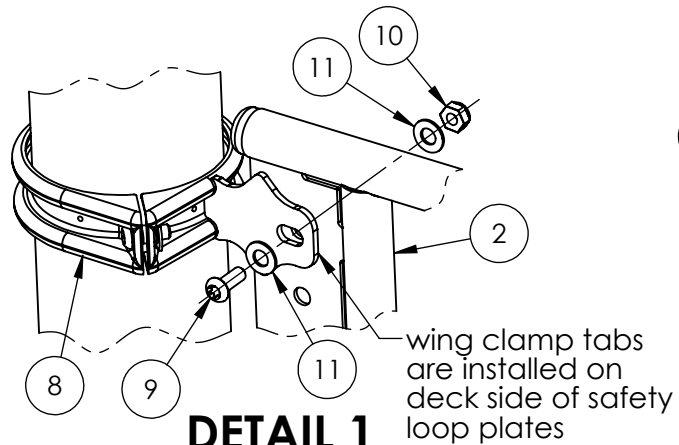


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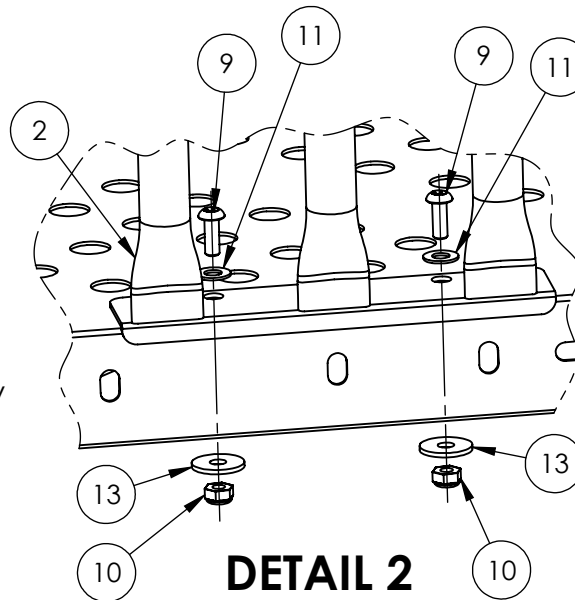


INST F/KB NU EDGE-X LUMBERJACK CLIMB 64"/72" KB

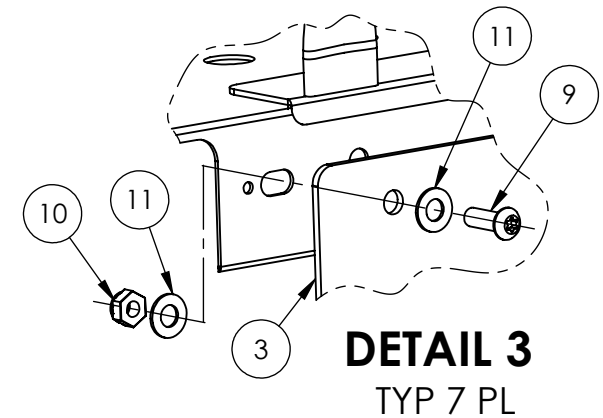
200313428
KB300437A
SHEET 4 OF 4
AUTHORIZED BY 08FEB16
CHRIS NEWBURY



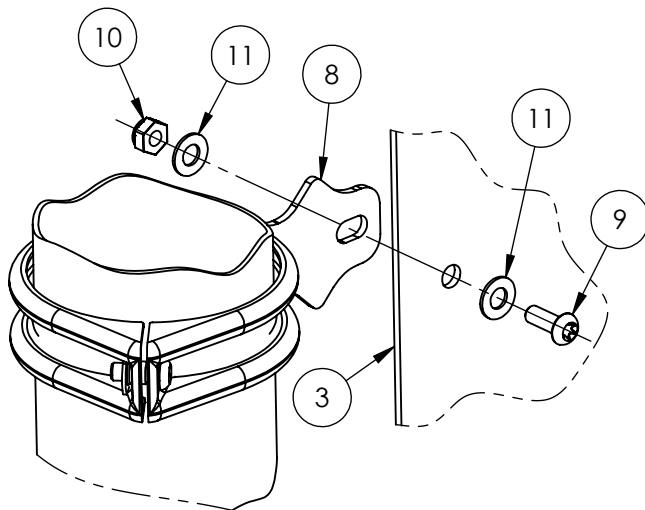
DETAIL 1
TYP 2 PL



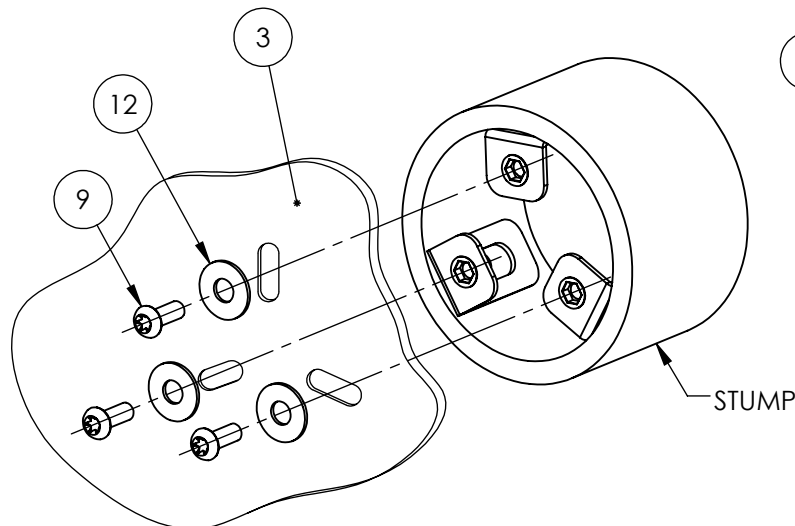
DETAIL 2
TYP 2 PL



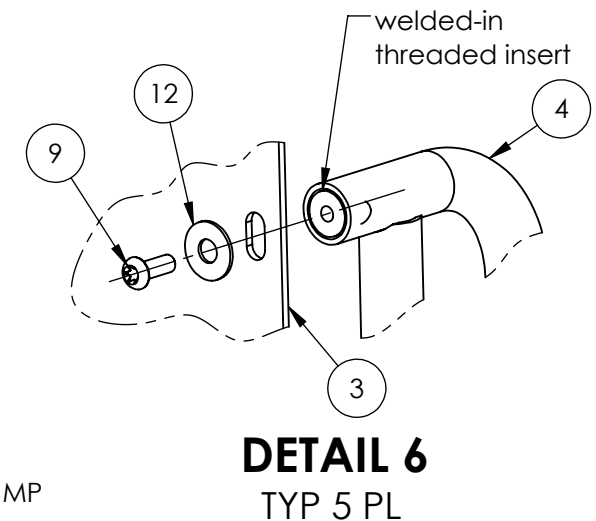
DETAIL 3
TYP 7 PL



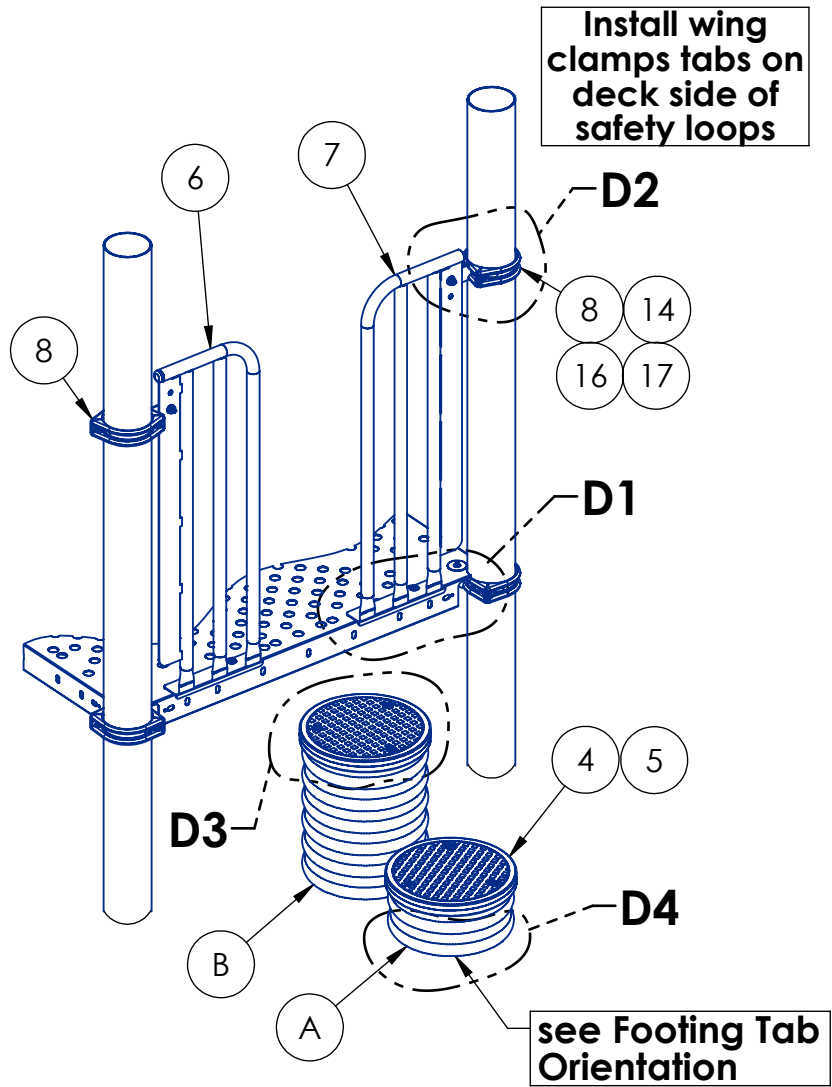
DETAIL 4
TYP 4 PL



DETAIL 5
TYP 12 PL (64")
TYP 14 PL (72")



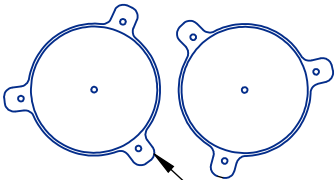
DETAIL 6
TYP 5 PL



Installation Instructions

1. Prepare footings.
2. Loosely attach the wing clamps to the safety loops as shown in DETAIL 2. Install wing clamp tabs on deck side of safety loops.
3. Loosely attach left and right safety loops to deck as shown in DETAIL 1 and to posts as shown in DETAIL 2. Refer to front of manual for clamp installation details.
4. Attach top and bottom grates to top of culvert pods as shown in DETAIL 3. Install bottom grate (item 5) with flat side against flat side of top grate (item 4).
5. Place the Culvert Pods in their proper positions. Rotate all pods as required to **prevent tab interference** - see *Footing Tab Orientation* on sheet 1.
6. For **Surface Mount** option, mark tab positions for anchor bolt placement.
7. Drill holes for anchor bolts.
8. Bolt tabs down to concrete surface as shown on sheet 5.
9. For **Inground Mount** option, attach inground footing support as shown in DETAIL 4. Block up culvert pods to correct heights as shown on sheet 3. Install inground supports (item 9) in concrete footings as shown on sheet 5.
10. Tighten all hardware and install clamp drive pins.
11. Complete footings and install resilient surfacing.

Item Numbers for Pods (see parts list on sheet 2)			
Location	Item Number 40mm surface mount	Item Number 305mm surface mount	Item Number inground mount
A	1 (197mm)	2 (465mm)	2 (465mm)
B	2 (465mm)	3 (732mm)	3 (732mm)



Footing Tab Orientation

Rotate both footing plates as necessary to **prevent tab interferences** between plates before attaching any footings to the concrete

INST F/KB CULVERT CLIMBER 24"

KB300441A
SHEET 2 OF 5

KB CULVERT CLIMBER 24" 200203447

Item	Code	Description	Qty. [40SM]	Qty. [305SM]	Qty. [ING]
1	902875SIL	CULVERT POD CLIMBER ASSY, 197MM	1	0	0
2	902874SIL	CULVERT POD CLIMBER ASSY, 465MM	1	1	1
3	902873SIL	CULVERT POD CLIMBER ASSY, 732MM	0	1	1
4	903036	CULVERT POD CLIMBER GRATE, TOP	2	2	2
5	903037	CULVERT POD CLIMBER GRATE, BTM	2	2	2
6	910316P	LOOP SAFETY W/O TAB LFT F/KB	1	1	1
7	910315P	LOOP SAFETY W/O TAB RGT F/KB	1	1	1
8	909257P	CLAMP WING F/KB (2001)	2	2	2
9	200300186	SUPPORT FOR STUMP ING <i>(used on inground only)</i>	0	0	2

HRDW PKG HW908779-1

10	200097726	SCREW MACH BUTTONHEAD M10 X 1.5 X 38MM	3 *	* quantities shown are for one culvert pod	
11	200002079	WASHER FLAT M11 23 X 12 X 1.6MM	3 *		

HDWR BAG F/FS STUMP 200302440 *(used on inground only)*

12	200002014	SCREW MACH. BUTTONHEAD M10 X 1.50 X 20mm	3 **	** quantities shown are for one inground mount culvert pod	
13	200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	3 **		
11	200002079	WASHER FLAT M11 23 X 12 X 1.6MM	6 **		

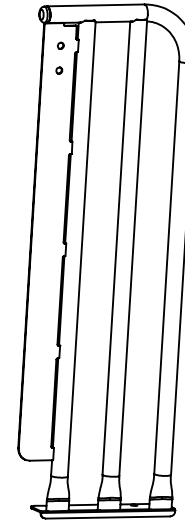
HRDW PKG ARCH SFTY RL/MSH PNL 1/1 HW7712-1

13	200001945	NUT LOCK HEX MYLON INSERTED M10 X 1.5	6
14	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	6
11	200002079	WASHER FLAT M11 23 X 12 X 1.6MM	8
15	200002096	WASHER FLAT M10 34 OD X 11 ID X 3 MM SS	4

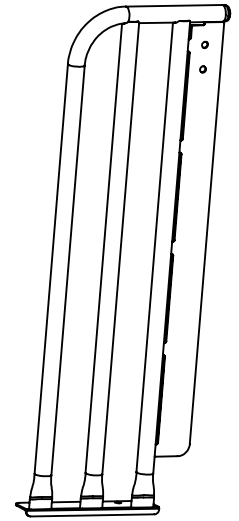
HRDW PKG F/2SETS O/CLAMPS 1/1 HW2CLMPSET-1

14	200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	4
16	200000797	HAMMER DRIVE PIN 4.7 X 11.11MM	4
17	200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5MM	4

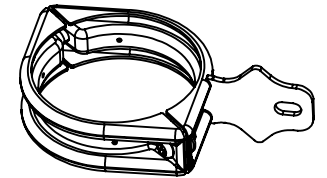
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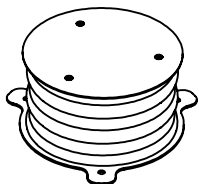
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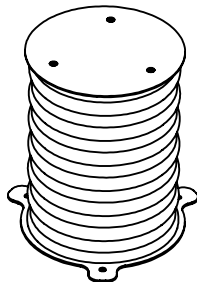
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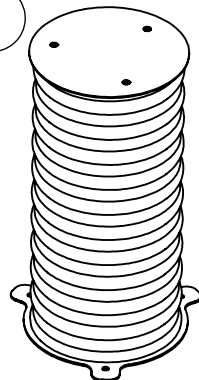
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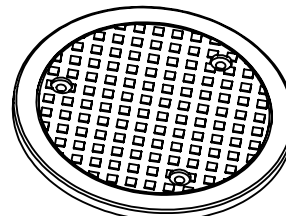
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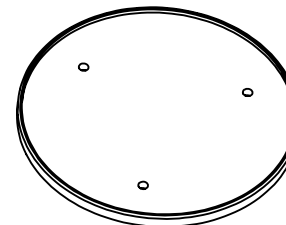
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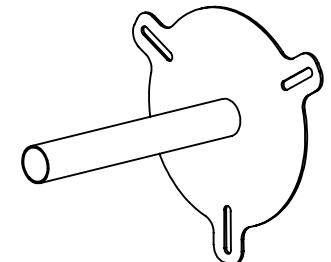
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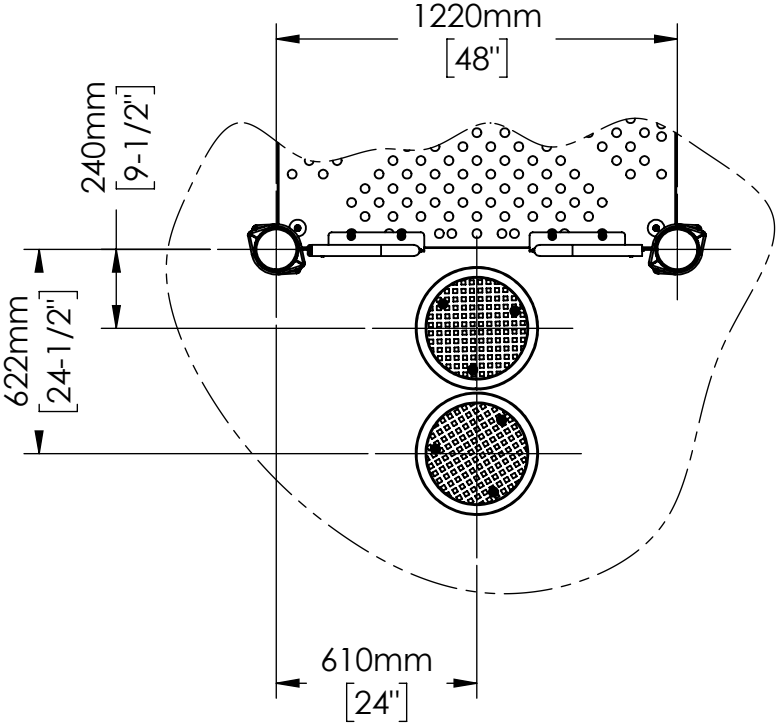
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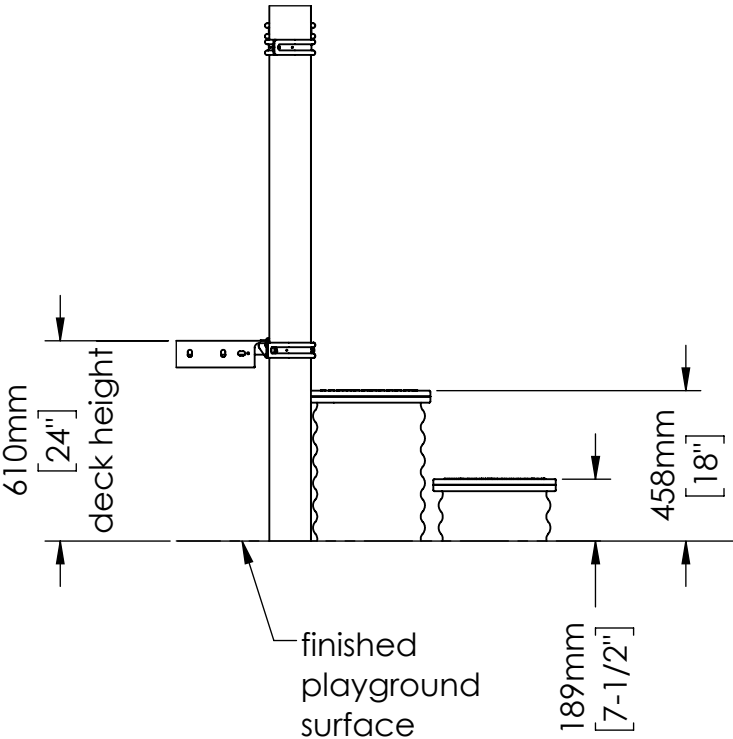
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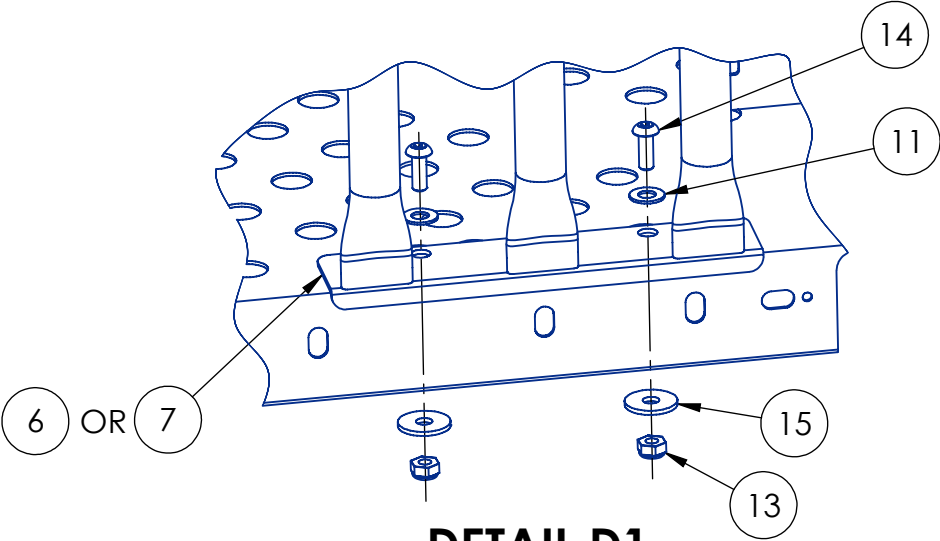
**Footing Dimensions
(Top View)**



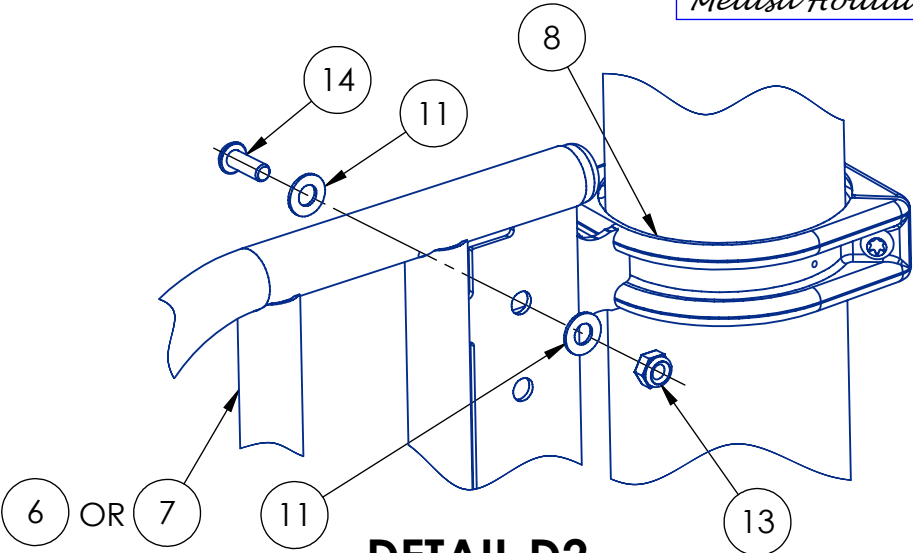
**Height from Finished
Playground Surface
Dimensions**



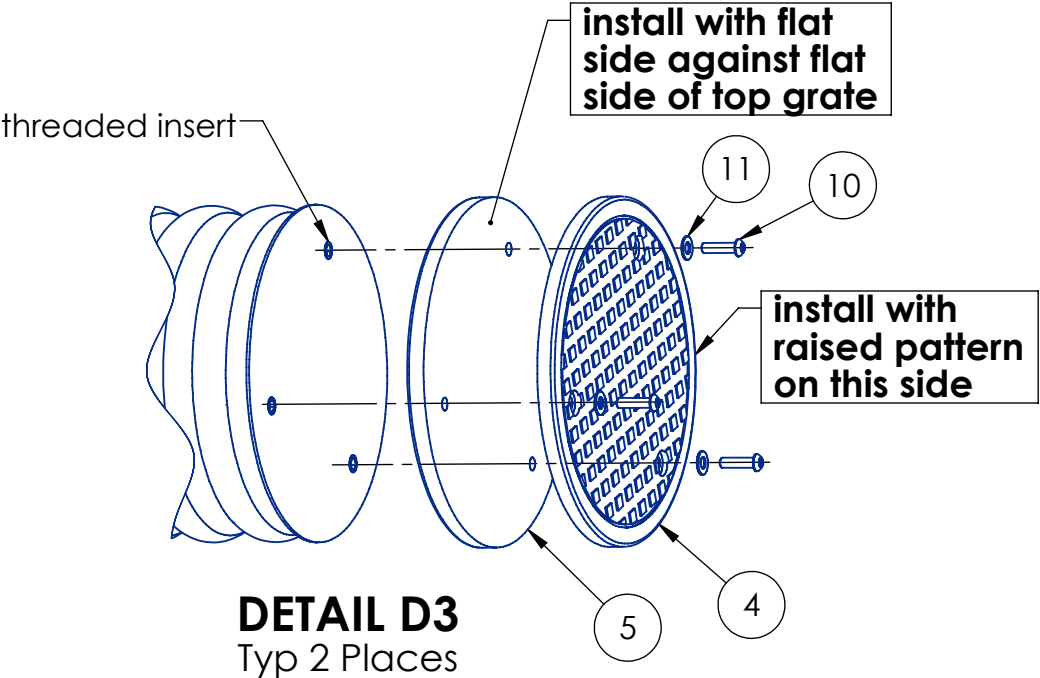
INST F/KB CULVERT CLIMBER 24"



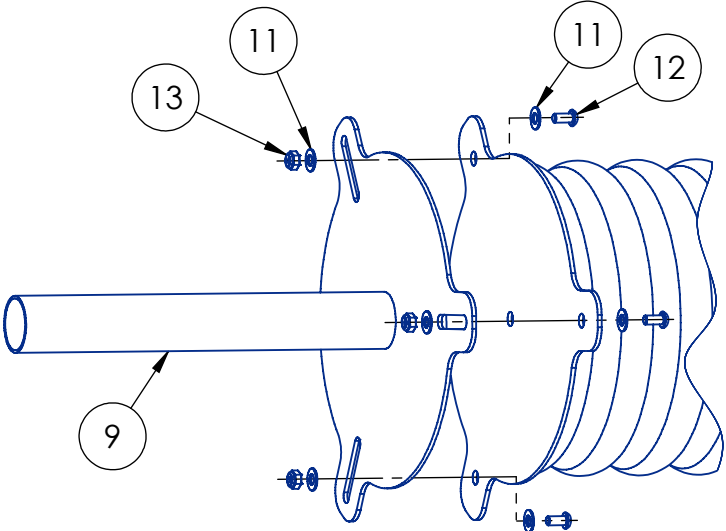
DETAIL D1
Typ 2 Places



DETAIL D2
Typ 2 Places

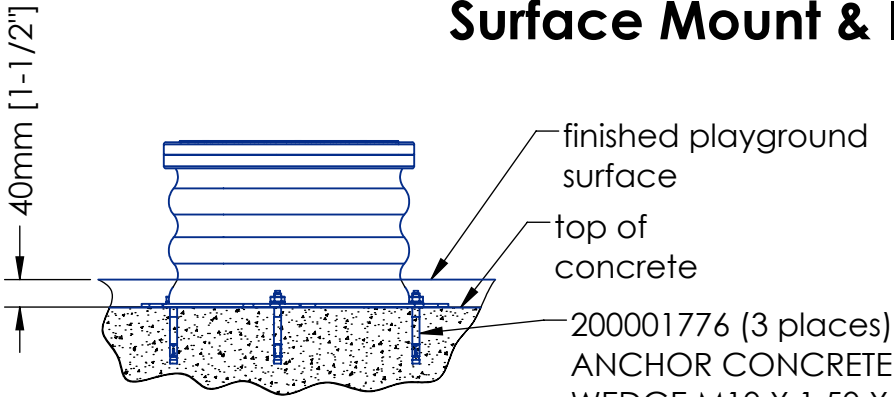


DETAIL D3
Typ 2 Places



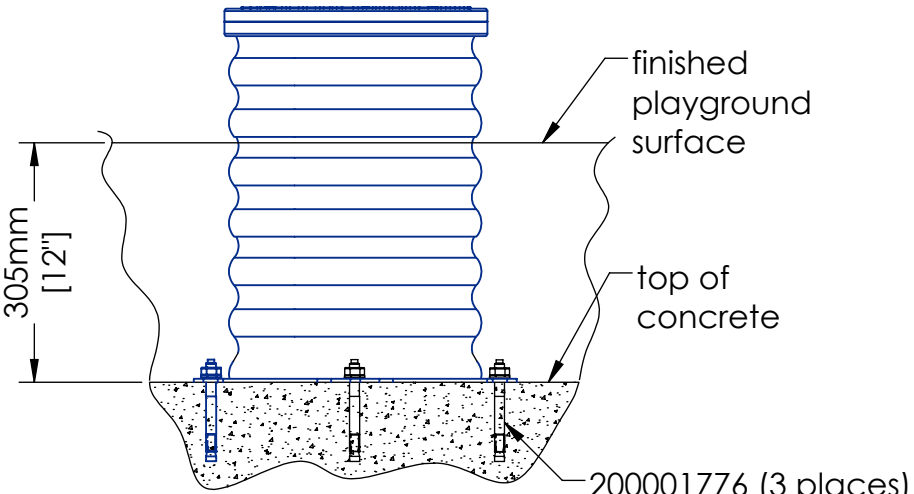
DETAIL D4
(inground only)
Typ 2 Places

Surface Mount & Inground Footing Details



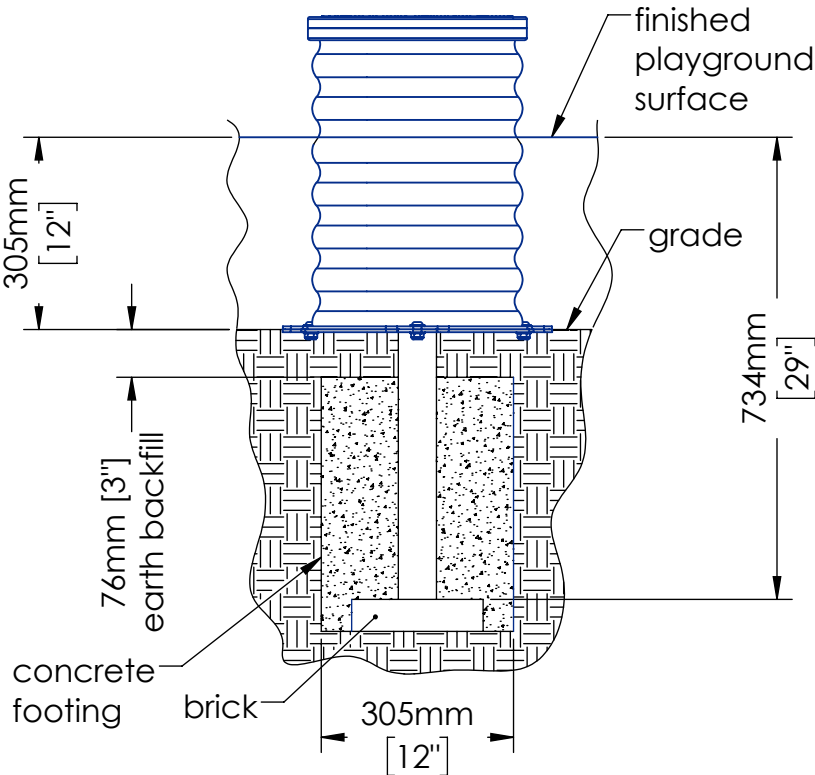
SURFACE MOUNT

40mm [1-1/2"] ground cover



SURFACE MOUNT

305mm [12"] ground cover



INGROUND MOUNT

305mm [12"] ground cover

KB Trail Climber

IMPORTANT! Prior to installation of any components refer to the front of the **Manufacturer's Assembly** manual and applicable safety guidelines and/or standards. The *Manufacturer's Assembly Manual* will provide important tips pertaining to **site requirements, footings, hardware** and other necessary information **vital to the success of your installation.**

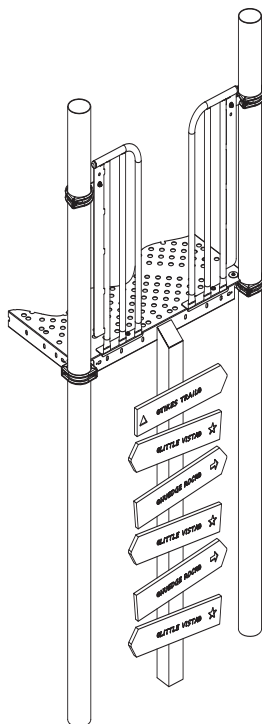
Models included in this installation guide:

<u>MODEL</u>	<u>DESCRIPTION</u>	<u>PAGE</u>
200203460	KB Trail Climber 72"	2, 6
200203459	KB Trail Climber 64"	2, 6
200203458	KB Trail Climber 56"	3, 6
200203457	KB Trail Climber 48"	3, 6
200203537	KB Trail Climber 72" CSA	4, 6
200203536	KB Trail Climber 64" CSA	4, 6
200203535	KB Trail Climber 56" CSA	5, 6
200203534	KB Trail Climber 48" CSA	5, 6

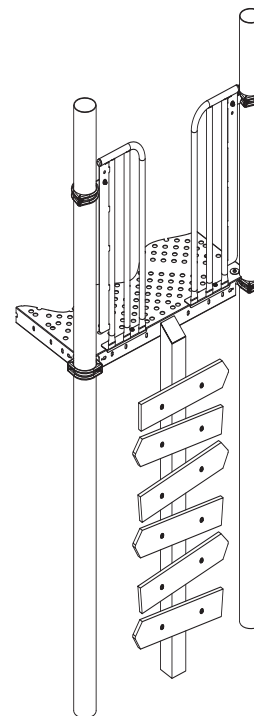
Note:

- Deck system and posts are not included in this assembly.
- An (*) by part numbers (CODE) indicate: Color Code Required.

KB Trail Climber - w/wording



KB Trail Climber CSA - w/out wording



Note: Deck height varies per model.

KB Trail Climber

200203460 KB TRAIL CLIMBER 72"

CODE	DESCRIPTION	QTY
902878DBW	TRAIL CLIMBER POST ASSY, 72" SM	1
902877DBW	TRAIL CLIMBER POST ASSY, 72" 305SM	
902879DBW	TRAIL CLIMBER POST ASSY, 72" ING	
910315*	LOOP SAFETY W/O TAB RGT F/KB	1
910316*	LOOP SAFETY W/O TAB LFT F/KB	1
909257*	CLAMP WING F/KB (2001)	2
903054	TRAIL CLIMBER SIGN, TRIANGLE	1
903055	TRAIL CLIMBER SIGN, STAR	3
903053	TRAIL CLIMBER SIGN, ARROW	2
925165	WOOD SIGN KIT F/72" TRAIL CLIMBER	1
HW2CLMPSET-1	HRDW PKG F/2SETS O/CLAMPS S1/1	1
HW906362-1	HRDW PKG KB TRAIL CLIMBER S1/2	1
HW906362-2	HRDW PKG KB TRAIL CLIMBER L2/2	1

200203459 KB TRAIL CLIMBER 64"

CODE	DESCRIPTION	QTY
902881DBW	TRAIL CLIMBER POST ASSY, 64" SM	1
902880DBW	TRAIL CLIMBER POST ASSY, 64" 305SM	
902882DBW	TRAIL CLIMBER POST ASSY, 64" ING	
910315*	LOOP SAFETY W/O TAB RGT F/KB	1
910316*	LOOP SAFETY W/O TAB LFT F/KB	1
909257*	CLAMP WING F/KB (2001)	2
903054	TRAIL CLIMBER SIGN, TRIANGLE	1
903055	TRAIL CLIMBER SIGN, STAR	2
903053	TRAIL CLIMBER SIGN, ARROW	2
925614	WOOD SIGN KIT F/64"/56" TRAIL CLIMBER	1
HW2CLMPSET-1	HRDW PKG F/2SETS O/CLAMPS S1/1	1
HW906362-1	HRDW PKG KB TRAIL CLIMBER S1/2	1
HW906362-2	HRDW PKG KB TRAIL CLIMBER L2/2	1

KB Trail Climber

200203458 KB TRAIL CLIMBER 56"		
CODE	DESCRIPTION	QTY
902884DBW	TRAIL CLIMBER POST ASSY, 56" SM	1
902883DBW	TRAIL CLIMBER POST ASSY, 56" 305SM	
902885DBW	TRAIL CLIMBER POST ASSY, 56" ING	
910315*	LOOP SAFETY W/O TAB RGT F/KB	1
910316*	LOOP SAFETY W/O TAB LFT F/KB	1
909257*	CLAMP WING F/KB (2001)	2
903054	TRAIL CLIMBER SIGN, TRIANGLE	1
903055	TRAIL CLIMBER SIGN, STAR	2
903053	TRAIL CLIMBER SIGN, ARROW	2
925164	WOOD SIGN KIT F/64"/56"TRAIL CLIMBER	1
HW2CLMPSET-1	HRDW PKG F/2SETS O/CLAMPS S1/1	1
HW906362-1	HRDW PKG KB TRAIL CLIMBER S1/2	1
HW906362-2	HRDW PKG KB TRAIL CLIMBER L2/2	1

200203457 KB TRAIL CLIMBER 48"		
CODE	DESCRIPTION	QTY
902887DBW	TRAIL CLIMBER POST ASSY, 56" SM	1
902886DBW	TRAIL CLIMBER POST ASSY, 56" 305SM	
902888DBW	TRAIL CLIMBER POST ASSY, 56" ING	
910315*	LOOP SAFETY W/O TAB RGT F/KB	1
910316*	LOOP SAFETY W/O TAB LFT F/KB	1
909257*	CLAMP WING F/KB (2001)	2
903054	TRAIL CLIMBER SIGN, TRIANGLE	1
903055	TRAIL CLIMBER SIGN, STAR	2
903053	TRAIL CLIMBER SIGN, ARROW	1
925163	WOOD SIGN KIT F/48" TRAIL CLIMBER	1
HW2CLMPSET-1	HRDW PKG F/2SETS O/CLAMPS S1/1	1
HW906362-1	HRDW PKG KB TRAIL CLIMBER S1/2	1
HW906362-2	HRDW PKG KB TRAIL CLIMBER L2/2	1

B Trail Climber

KB300442

KB Trail Climber

200203537 KB TRAIL CLIMBER 72" CSA

CODE	DESCRIPTION	QTY
902878DBW	TRAIL CLIMBER POST ASSY, 72" SM	1
902877DBW	TRAIL CLIMBER POST ASSY, 72" 305SM	
902879DBW	TRAIL CLIMBER POST ASSY, 72" ING	
910315*	LOOP SAFETY W/O TAB RGT F/KB	1
910316*	LOOP SAFETY W/O TAB LFT F/KB	1
909257*	CLAMP WING F/KB (2001)	2
925159	TRAIL CLIMBER SIGN, W/O TEXT	6
HW2CLMPSET-1	HRDW PKG F/2SETS O/CLAMPS S1/1	1
HW906362-1	HRDW PKG KB TRAIL CLIMBER S1/2	1
HW906362-2	HRDW PKG KB TRAIL CLIMBER L2/2	1

200203536 KB TRAIL CLIMBER 64" CSA

CODE	DESCRIPTION	QTY
902881DBW	TRAIL CLIMBER POST ASSY, 64" SM	1
902880DBW	TRAIL CLIMBER POST ASSY, 64" 305SM	
902882DBW	TRAIL CLIMBER POST ASSY, 64" ING	
910315*	LOOP SAFETY W/O TAB RGT F/KB	1
910316*	LOOP SAFETY W/O TAB LFT F/KB	1
909257*	CLAMP WING F/KB (2001)	2
925159	TRAIL CLIMBER SIGN, W/O TEXT	5
HW2CLMPSET-1	HRDW PKG F/2SETS O/CLAMPS S1/1	1
HW906362-1	HRDW PKG KB TRAIL CLIMBER S1/2	1
HW906362-2	HRDW PKG KB TRAIL CLIMBER L2/2	1

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KB Trail Climber

200203535 KB TRAIL CLIMBER 56" CSA		
CODE	DESCRIPTION	QTY
902884DBW	TRAIL CLIMBER POST ASSY, 64" SM	1
902883DBW	TRAIL CLIMBER POST ASSY, 64" 305SM	
902885DBW	TRAIL CLIMBER POST ASSY, 64" ING	
910315*	LOOP SAFETY W/O TAB RGT F/KB	1
910316*	LOOP SAFETY W/O TAB LFT F/KB	1
909257*	CLAMP WING F/KB (2001)	2
925159	TRAIL CLIMBER SIGN, W/O TEXT	5
HW2CLMPSET-1	HRDW PKG F/2SETS O/CLAMPS S1/1	1
HW906362-1	HRDW PKG KB TRAIL CLIMBER S1/2	1
HW906362-2	HRDW PKG KB TRAIL CLIMBER L2/2	1

200203534 KB TRAIL CLIMBER 48" CSA		
CODE	DESCRIPTION	QTY
902887DBW	TRAIL CLIMBER POST ASSY, 64" SM	1
902886DBW	TRAIL CLIMBER POST ASSY, 64" 305SM	
902888DBW	TRAIL CLIMBER POST ASSY, 64" ING	
910315*	LOOP SAFETY W/O TAB RGT F/KB	1
910316*	LOOP SAFETY W/O TAB LFT F/KB	1
909257*	CLAMP WING F/KB (2001)	2
925159	TRAIL CLIMBER SIGN, W/O TEXT	4
HW2CLMPSET-1	HRDW PKG F/2SETS O/CLAMPS S1/1	1
HW906362-1	HRDW PKG KB TRAIL CLIMBER S1/2	1
HW906362-2	HRDW PKG KB TRAIL CLIMBER L2/2	1

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B Trail Climber

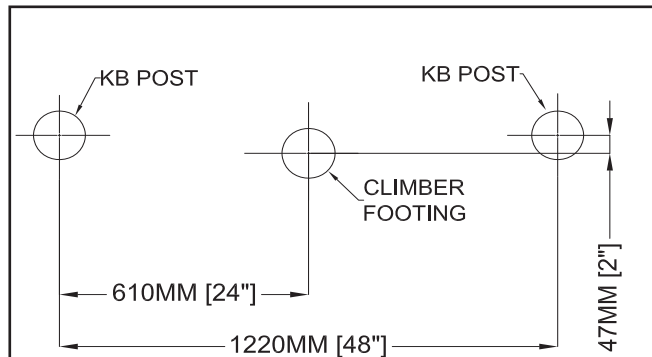
KB300442

KB Trail Climber

Note: Hardware packages are used for all eight (8) KB Trail Climbers w/words and w/o words.

HRDW PKG F/2SETS O/CLAMPS S1/1 HW2CLMPSET-1		
CODE	DESCRIPTION	QTY
200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	4
200000797	HAMMER DRIVE PIN 4.7 X 11.11MM	4
200001966	T-NUT SLAB BASE M10 X 1.50 X 9.5MM	4
HRDW PKG KB TRAIL CLIMBER S1/2 HW906362-1		
CODE	DESCRIPTION	QTY
200001945	NUT LOCK HEX NYLON INSERTED M10 X 1.5	6
200002014	SCREW MACH BUTTONHEAD M10 X 1.50 X 20MM	1
200002018	SCREW MACH BUTTONHEAD M10 X 1.50 X 25MM	6
200002079	WASHER FLAT M11 23 X 12 X 1.6MM	9
200002096	WASHER FLAT M10 34 OD X 11 ID X 3MM SS	4
HRDW PKG KB TRAIL CLIMBER L2/2 HW906362-2		
CODE	DESCRIPTION	QTY
104286	BOLT 3/8-16 X 1 BHCS 6 LOBE 18-8 SS	12
110162	NUT 3/8-16 X 1 BARREL LENGTH, BUTTON HEAD	12
117005	WASHER 3/8 X 1 O.D. FLAT 18-8 SS	12
104480	BIT 6 LOBE T-45 FOR 3/8 BOLTS	1
104481	BIT 6 LOBE T-55 FOR 1/2 BOLTS	1

Footing Layout - for both KB Trail Climber w/words and w/o words.



KB Trail Climber

STEP 1 DECK AND POST FOOTINGS

1a. Deck and posts are in place per *Footing Layout* and Construction Drawings per model option.

1b. Deck Height Options:

- 1830MM [72"]
- 1625MM [64"]
- 1422MM [56"]
- 1220MM [48"]

Note: Deck Height Options are the same for KB Trail Climber CSA.

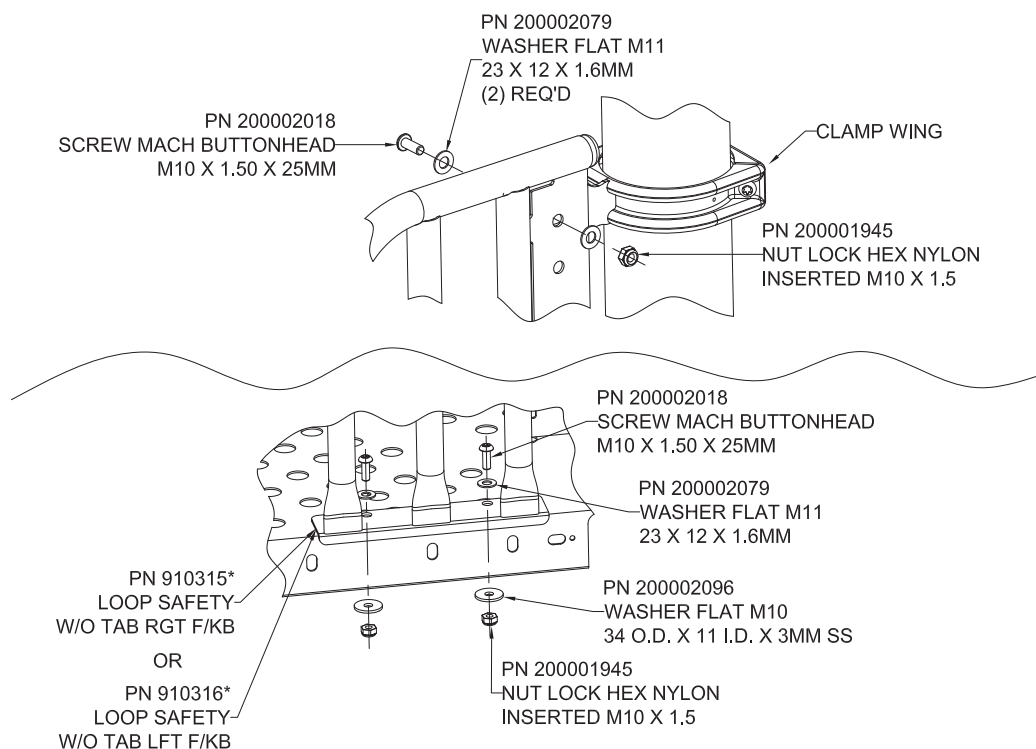
STEP 2 ASSEMBLE WING CLAMPS

2a. Loosely assemble wing clamps on posts per clamp installation details in the installation manual .

STEP 3 ATTACH SAFETY LOOPS TO DECK

3a. Loosely attach safety loops to deck and to wing clamps/post as shown below.

3b. Install wing clamp tabs on deck side of safety loop.



KB Trail Climber

STEP 4 ATTACH BOARDS WITH INSERTS

4a. Attach boards with inserts to the climber post as shown.

Note: See Figures 1, 2, 3 and 4 for surface mount and inground climber posts.

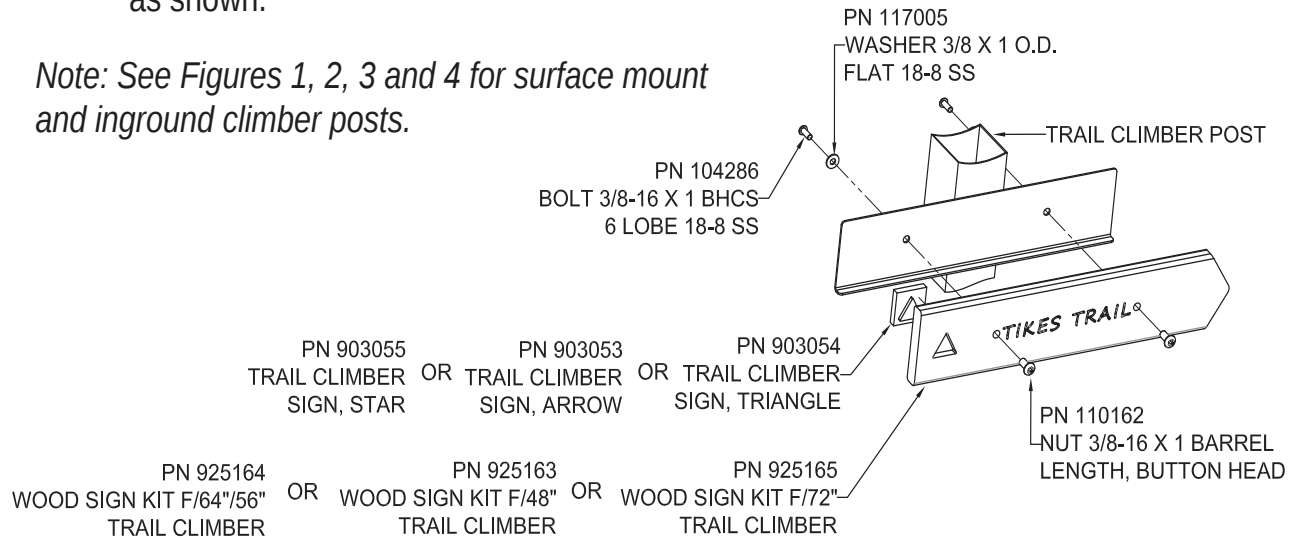


Figure 1. 1830MM [72"]

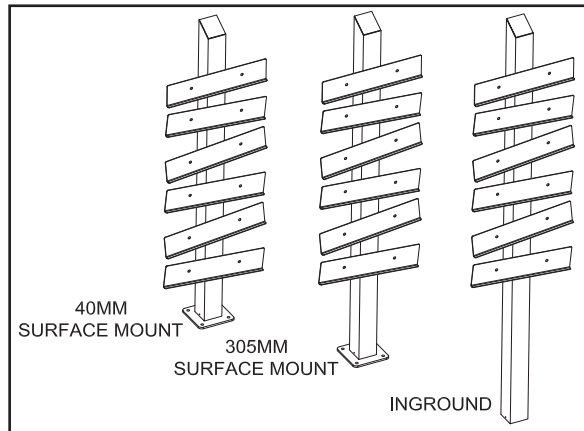


Figure 2. 1625MM [64"]

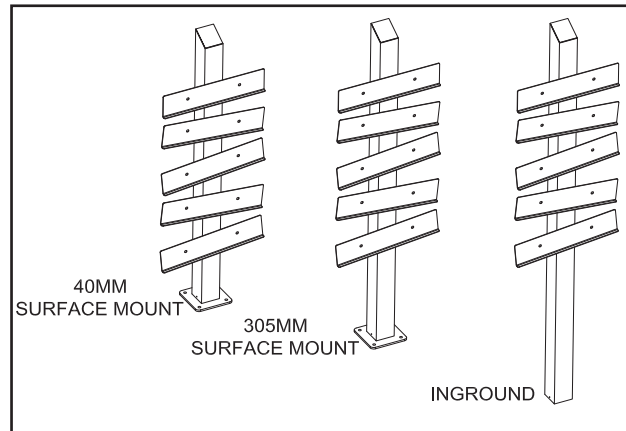


Figure 3. 1422MM [56"]

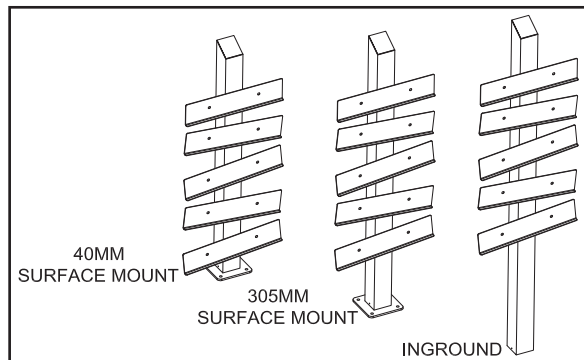
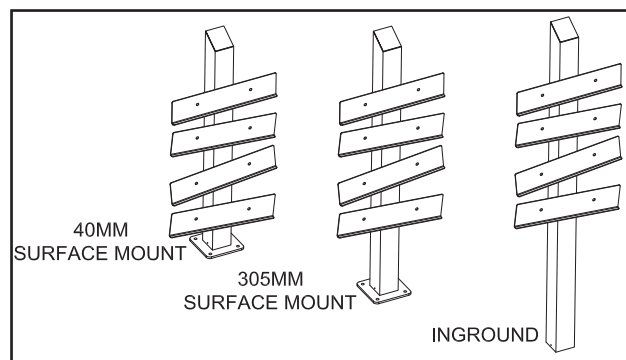


Figure 4. 1220MM [48"]



KB Trail Climber

STEP 4 ATTACH BOARDS WITH INSERTS cont.

4b. Follow the insert locations, as shown below, for each climber post height.

Note: See Figures 5, 6, 7 and 8 for insert locations.

Figure 5. 1830MM [72"]

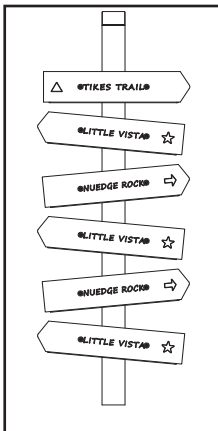


Figure 6. 1625MM [64"]

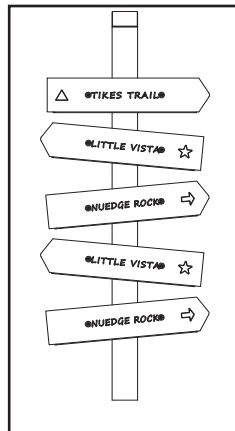


Figure 7. 1422MM [56"]

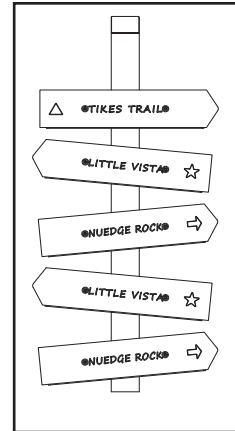
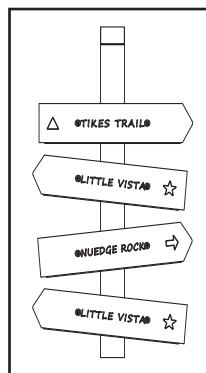


Figure 8. 1220MM [48"]



KB Trail Climber

STEP 5 ATTACH BOARDS W/OUT INSERTS/WORDING FOR CSA MODELS

5a. Attach boards to the climber post as shown below.

Note: See Figures 9, 10, 11 and 12 for board placement. Refer to Figures 1, 2, 3 and 4 for surface mount and inground climber posts.

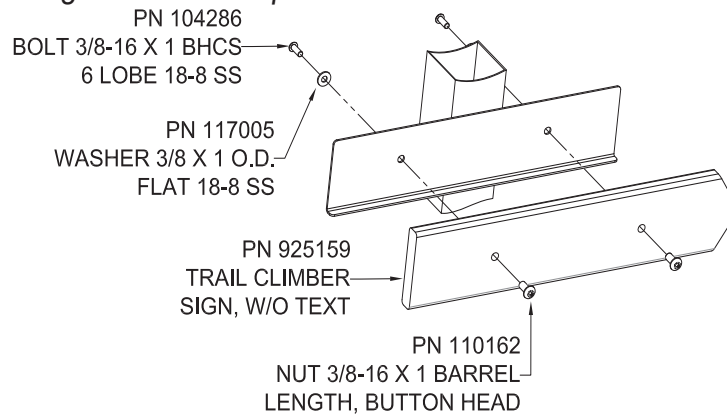


Figure 9. 1830MM [72"]

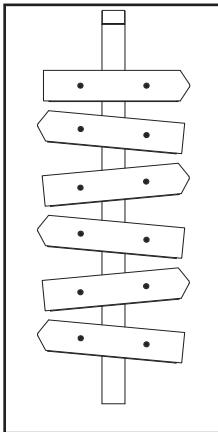


Figure 10. 1625MM [64"]

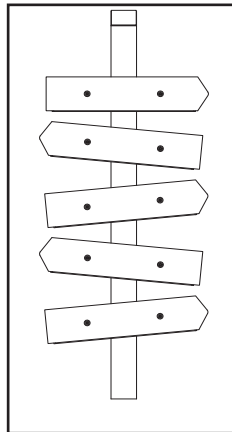


Figure 11. 1422MM [56"]

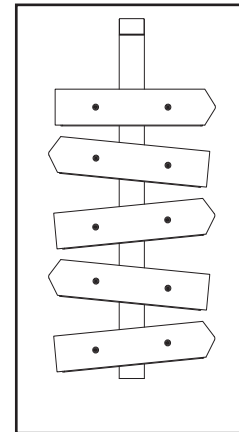
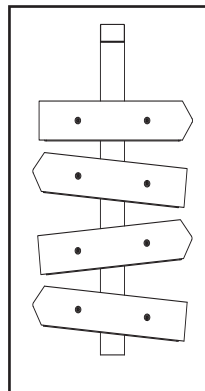


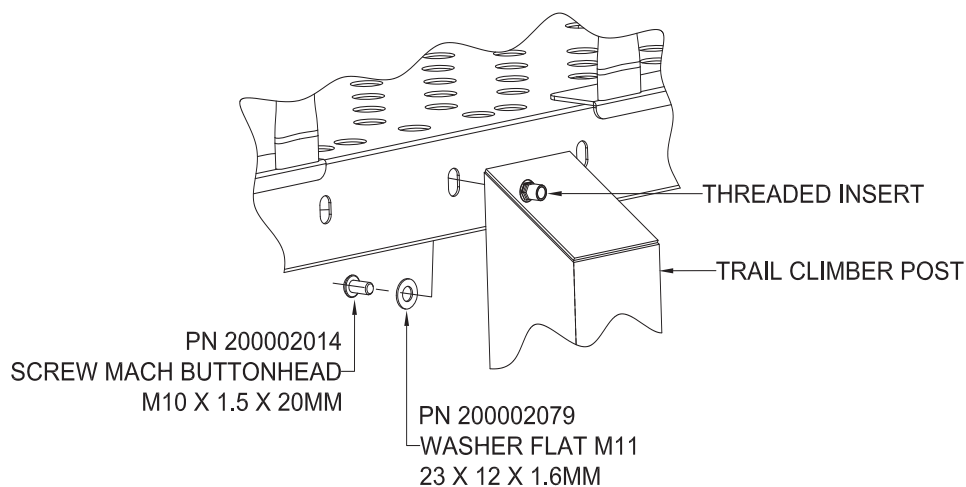
Figure 12. 1220MM [48"]



KB Trail Climber

STEP 6 ATTACH POST CLIMBER TO DECK

6a. Attach the post climber to the deck face as shown below.



6b. Tighten all hardware and install clamp drive pins.

FINAL STEP

Proceed with **Final Assembly** installation.