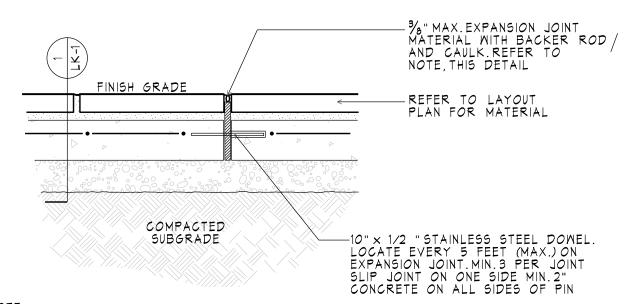
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3/8" MAX.MORTAR JOINT, COLOR-TO BE APPROVED BY LA. SEAL SLAB. EFFLORESCENCE AND — ALKALI RESISTENT WATERPROOFING 1. EXPANSION JOINT LOCATIONS TO BE LAID OUT IN FIELD BY CONCRETE SEALER CONTRACTOR AND APPROVED BY LANDSCAPE ARCHITECT.
CAULK COLOR TO MATCH
MORTAR, LA TO APPROVE
2. REFER TO GENERAL
MASONRY NOTES PAGE LK-1. UNDERLAYMENT.INSTALL PER MANUF.SPEC. REFER TO STRUCTURAL AND MASONRY NOTES ON LK-1 CONCRETE SLAB #4 @ 12" O.C., BOTH DIRECTIONS IN 6" MIN REFER NOTE MIDDLE 1/3 OF SLAB THICKEN SLAB AT EDGES.
EXP.JOINT REQUIRED WHERE 4" MIN. COMPACTED-SLAB MEETS STRUCTURES GRAVEL BASE VAPOR BARRIER PER ASTM E-1745—— SPEC.INSTALL PER MANUF.SPEC.

DIMENSIONAL STONE PAVING ON NEW SLAB DETAIL

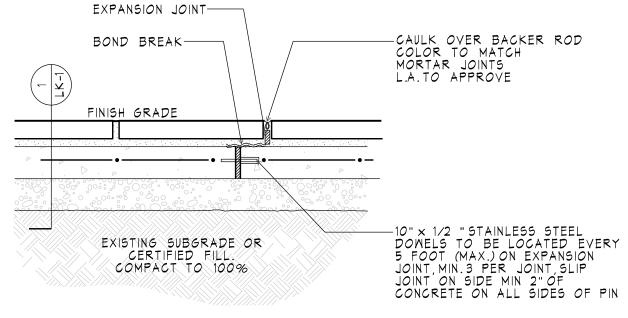
SCALE: 1" = 1'-0"



1.EXPANSION JOINT LOCATIONS TO BE LAID OUT IN FIELD BY CONTRACTOR AND APPROVED BY LANDSCAPE ARCHITECT. CAULK COLOR TO MATCH MORTAR, LA TO APPROVE 2.REFER TO GENERAL MASONRY NOTES PAGE LK-1.

EXPANSION JOINT DETAIL

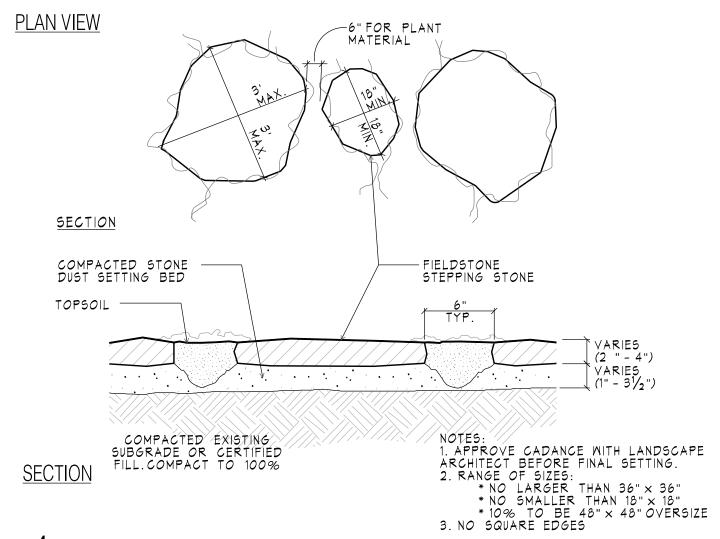
SCALE: 1" = 1'-0"



NOTE: REFER TO GENERAL MASONRY NOTES PAGE LK-1

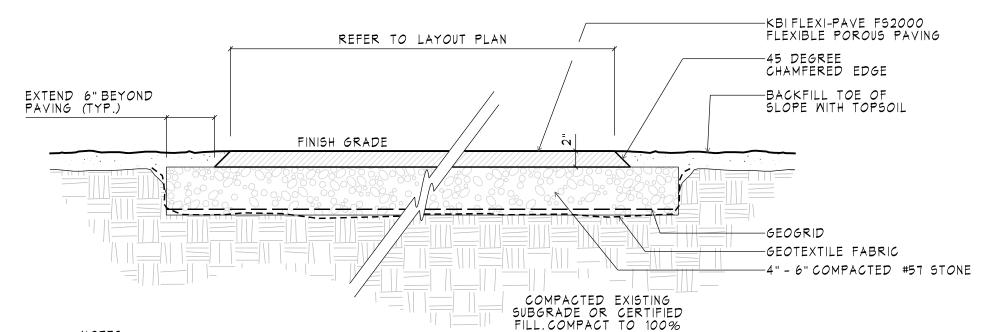
STAGGERED EXPANSION JOINT DETAIL

SCALE: N.T.S



STAGGERED EXPANSION JOINT DETAIL

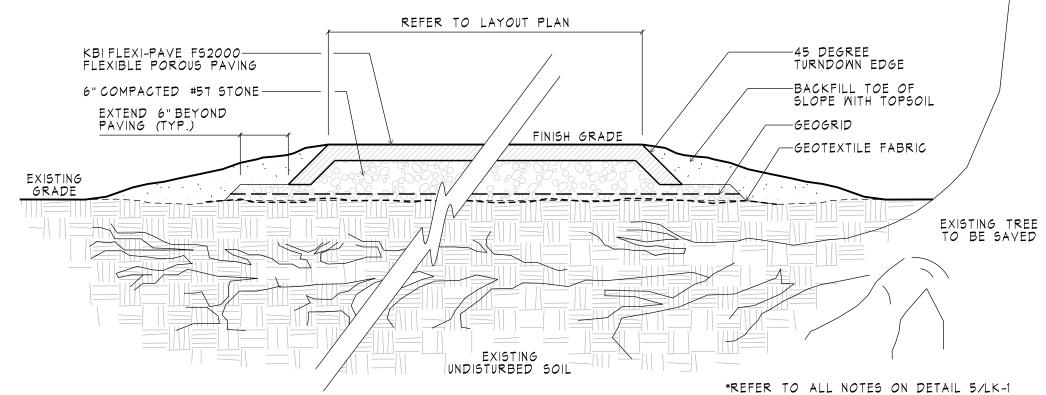
SCALE: N.T.S.



1.REFER TO ALL MANUF.SPECS.AND DETAILS FOR INSTALLATION OF KBI'S FLEXI-PAVE F52000.
2.FINAL COLOR TO BE DETERMINED.

PERMEABLE PAVEMENT DETAIL

SCALE: 1" = 1'-0"

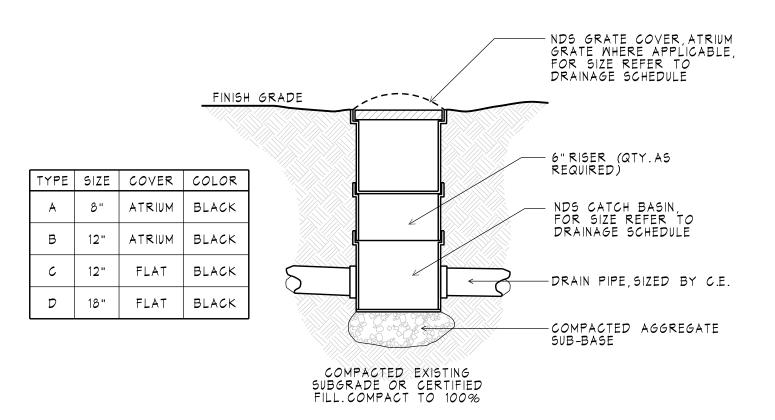


PERMEABLE PAVEMENT DETAIL IN CRITICAL ROOT ZONES

SCALE: 1" = 1'-0" SCHLUTER-DITRA UNDERLAYMENT INSTALL PER MANUF. SPEC. #4 @ 12" O.C., BOTH DIRECTIONS— IN MIDDLE 1#3 OF SLAB - SEAL SLAB WITH EFFLORESCENCE AND ALKALIRESISTENT PACK ALL EDGES WATERPROOFING CONCRETE SEALER IN MORTAR 3/8" MAX.MORTAR JOINT, COLOR TO BE APPROVED BY LA. 4" MIN. FIELDSTONE, 3"-4" THICKNESS STONE TO MATCH EXISTING REFER TO LAYOUT PLAN FOR MATERIAL FINISH GRADE ALLOW FOR 5" THICKNESS ----" MIN. MORTAR CONCRETE SLAB SETTING BED VAPOR BARRIER PER ASTM E-1745 SPEC. INSTALL PER MANUF.SPEC. THICKEN SLAB AT ALL EDGES — AND WHERE SLAB MEETS STRUCTURES.EXP.JOINT REQUIRED WHERE SLAB MEETS STRUCTURES 4" MIN.COMPACTED GRAVEL ROAD BASE SUBGRADE OR CERTIFIED FILL. COMPACT TO 100%

*REFER TO NOTES ON DETAIL 4/LK-1 FOR STONE SIZES FIELDSTONE ON CONCRETE SLAB DETAIL

SCALE: N.T.S.



AREA DRAIN IN PLANTING BED DETAIL

SCALE: N.T.S.

STRUCTURAL NOTES

1. **GENERAL**

- A. THE STRUCTURE IS DESIGNED UNDER THE PROVISIONS OF THE 2012 INTERNATIONAL RESIDENTIAL CODE.
- B. THE FOLLOWING LIVE LOADS WERE USED IN THE DESIGN:

EXTERIOR PATIO/YARD DRIVEWAYS

C. SEE LANDSCAPE DRAWINGS FOR ANGLES, CLIPS, PLATES, ETC., AND OTHER MISCELLANEOUS ITEMS. VERIFY AND COORDINATE ALL FRAMES, OPENINGS, ETC. WITH THE MECHANICAL AND ELECTRICAL CONTRACTORS.

D. SUBMIT SHOP DRAWINGS FOR THE FOLLOWING ITEMS. SUBMITTALS INCLUDE BUT MAY NOT BE LIMITED TO: --CONCRETE MIX DESIGN --REINFORCING STEEL

DO NOT USE CONTRACT DRAWINGS AS A BASE FOR SHOPS. REVIEW IS LIMITED TO DESIGN CONFORMANCE. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS.

E. CONTRACTOR SHALL COORDINATE WITH THE QUALIFIED AGENCY RETAINED BY THE OWNER TO PERFORM INSPECTION AND TESTING. INSPECTIONS REQUIRED INCLUDE, BUT MAY NOT BE LIMITED TO: --SOILS AND FOUNDATIONS --CONCRETE

2. EARTHWORK

A. FOUNDATIONS ARE DESIGNED TO BEAR ON ENGINEERED FILL OR NATURAL SOIL WITH A CAPACITY OF 3000 PSF IN ACCORDANCE WITH THE GEOTECHNICAL REPORT PREPARED BY HYNES & ASSOCIATES AND DATED JULY 20, 2012. THIS VALUE IS TO BE VERIFIED IN THE FIELD BY A QUALIFIED INSPECTOR.

- B. BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE A MINIMUM OF 2 FOOT6 INCH BELOW FINISH EXTERIOR GRADE. WHERE REQUIRED, STEP FOOTINGS IN RATIO OF 2 HORIZONTAL TO 1 VERTICAL.
- C. COMPACTED BACKFILL BELOW BUILDING SLABS AND FOOTINGS: ALL SOIL FILL MATERIAL MUST BE APPROVED BY SOILS ENGINEER PRIOR TO PLACEMENT. PROOFROLL SUBGRADE REMOVING AND REPLACING SOFT OR COMPRESSIVE MATERIALS. FILL MATERIAL SHALL BE PLACED IN LAYERS NOT TO EXCEED 8INCH AND COMPACTED TO MIN. 95 PERCENT OF THE DRY MAXIMUM DENSITY AS DETERMINED BY ASTM D698.

- A. CONCRETE CONSTRUCTION SHALL BE PER THE APPLICABLE BUILDING CODE, ACI 318 AND ACI 301, LATEST EDITIONS.
- B. CONCRETE SHALL ATTAIN A 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI PER ASTM A39.
- C. VERIFY CONCRETE STRENGTHS WITH A MINIMUM OF ONE SET OF SIX COMPRESSION CYLINDERS (2 @ 7 DAYS, 2 @ 28, 2 SPARE) PER DAY WITH AN ADDITIONAL SET FOR EACH 100 YARDS OF CONCRETE.
- D. EXTERIOR CONCRETE SHALL BE AIR-ENTRAINED TO PROVIDE AN AIR CONTENT OF 6+/-1 PERCENT BY VOLUME.
- E. PROVIDE CLEAR DISTANCE TO OUTERMOST REINFORCING AS FOLLOWS

BEAMS AND SLABS EXPOSED TO WEATHER FOOTINGS (BOTTOM)

F. REINFORCING STEEL SHALL CONFORM TO A615GR60; PLACING PLANS AND SHOP FABRICATION DETAILS SHALL BE IN ACCORDANCE WITH "THE MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES". FURNISH SUPPORT BARS AND ACCESSORIES IN ACCORDANCE WITH C.R.S.I. STANDARDS.

G. PROVIDE CORNER BARS TO MATCH HORIZONTAL REINFORCING IN WALLS AND FOOTINGS. SPLICE LAPS SHALL BE A MINIMUM OF 30 BAR DIAMETERS, UNLESS NOTED OTHERWISE. PROVIDE DOWELS BETWEEN FOOTINGS AND WALLS OR PIERS TO MATCH SIZE AND SPACING OF VERTICAL REINFORCING.

A. MASONRY CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPLICABLE BUILDING CODE AND THE "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" TMS 402/ACI-530/ASCE 5 AND THE "SPECIFICATIONS FOR MASONRY STRUCTURES" TMS 602/ACI-530.1/ASCE 6, LATEST EDITIONS.

B. MASONRY TO CONFORM TO THE FOLLOWING SPECIFICATIONS:

HOLLOW LOADBEARING C.M.U CONCRETE BUILDING BRICK

ASTM C55, GRADE A ASTM C270, TYPE M OR S

- C. MASONRY ASSEMBLIES SHALL HAVE COMPRESSIVE STRENGTH (F'M) GREATER THAN OR EQUAL TO 1350 PSI.
- D. WALLS SHALL BE CONSTRUCTED USING A FULL BED OF MORTAR. VERTICAL REINFORCING SHALL BE GROUTED IN PLACE WITH 2500 PSI GROUT (GROUT SLUMP SHALL FALL BETWEEN 8 AND 11 INCHES) POUR HEIGHT AND LIFT HEIGHT SHALL NOT EXCEED 5 FEET 0 INCHES.
- E. PROVIDE CONTINUOUS HORIZONTAL JOINT REINFORCING IN MASONRY WALLS AT 16 INCHES O.C.
- F. CAVITY WALLS OF BRICK AND BLOCK SHALL BE CONSTRUCTED WITH JOINT REINFORCING IN MASONRY AND ADJUSTABLE METAL ANCHORS TO BRICK.
- G. MASONRY WALLS SHALL HAVE CONTROL JOINTS AT 30 FEET ON CENTER UNLESS NOTED OTHERWISE.
- H. REINFORCING STEEL SHALL CONFORM TO ASTM A615-GR60. LAP BARS A MINIMUM OF 48 BAR DIAMETERS. GROUT ALL REINFORCED CORES SOLID.
- 5. STEEL
- **A.** STEEL CONSTRUCTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPLICABLE BUILDING CODE AND SHALL CONFORM TO AISC 360. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM STANDARDS:
- STEEL PLATES, CHANNELS AND ANGLES
- B. WELDING OF STRUCTURAL STEEL SHALL BE WITH E70XX ELECTRODES

WARNING: THE STRUCTURAL INTEGRITY OF THE BUILDING SHOWN ON THESE PLANS IS DEPENDENT UPON COMPLETION ACCORDING TO PLANS AND SPECIFICATIONS. STRUCTURAL MEMBERS ARE NOT SELFBRACING UNTIL PERMANENTLY AFFICIAL STRUCTURE. THE STRUCTURAL ENGINEERS ASSUME NO LIABILITY FOR THE STRUCTURE DURING

1. PRIOR TO CONSTRUCTION, CONTRACTOR TO PROVIDE A 4'X6' SAMPLE OF EACH PAVING TYPE. SAMPLES SUBJECT TO REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT FOR, BUT NOT LIMITED TO, MATERIAL, COLOR, TEXTURE, COURSING,

2. PRIOR TO CONSTRUCTION, CONTRACTOR TO PROVIDE A FULL HEIGHT (AS INDICATED ON GRADING PLAN), BY 6' LONG SECTION OF EACH WALL TYPE. SAMPLES SUBJECT TO REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT FOR, BUT NOT LIMITED TO, MATERIAL, COLOR, TEXTURE, COURSING, JOINT WORK, AND GENERAL WORKMANSHIP.

4. SAMPLE WALL AND PAVING INSTALLATIONS SHALL CONTAIN APPLICABLE DETAILS AND MATERIALS INCLUDING BUT NOT LIMITED TO PATTERN, EDGE RESTRAINT, MORTAR, SUBBASE, BASE, BED, TIES, ANCHORS, FASTENERS, WEEPS, AND JOINTS.

7. ALL ACCESSORY MASONRY MATERIALS SHALL BE SUBMITTED FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO

8. PAVEMENT TYPE: REFER TO LAYOUT PAGES, STONE SCHEDULE, AND DETAILS.

9. REFER TO STRUCTURAL DRAWINGS FOR DIMENSIONS, COMPACTION, AND REINFORCING OF CONCRETE.

11. WALL BRICK: ALL WALL BRICK, RISER BRICKS, AND MORTAR JOINTS TO MATCH HOUSE. INSTALLATION PER APPROVED SITE SAMPLES. LANDSCAPE ARCHITECT TO APPROVE.

12. DAMP PROOFING: ENTIRE CMU WALL AND CONCRETE SLABS TO BE DAMP PROOFED WITH THORO-SEAL (OR APPROVED EQUAL). IN PAVING APPLICATIONS, INSTALL SCHLUTER-DITRA BOARD (OR APPROVED EQUAL) BETWEEN CONCRETE SLAB AND MORTAR. INSTALL MIRA DRAIN BOARD (OR APPROVED EQUAL) BEHIND BRICK OR STONE WALL VENEER AND BETWEEN STRUCK OR STONE WALL ON WATER TO ESCAPE. ETC, TO ALLOW WATER TO ESCAPE.

GENERAL MASONRY NOTES

3. SAMPLE WALL AND PAVING INSTALLATIONS SHALL CONTAIN ENOUGH STONE TO ILLUSTRATE COLOR VARIATION AND RANGE OF MATERIAL.

5. PAVER STORAGE: STORE OFF GROUND AND COVER TO PREVENT CONTAMINATION BY MUD, DUST, AND MATERIALS LIKELY TO CAUSE STAINING.

6. MORTAR: ALL MORTAR SHALL BE MODIFIED WITH ACRYL 60 OR APPROVED ALTERNATIVE. STORAGE SHALL PROTECT MORTAR MATERIALS AGAINST CONTAMINATION AND MOISTURE.

CONSTRUCTION.

10. DRAINTILE: 4" CORRUGATED PERFORATED DRAINTILE WRAPPED IN FILTER FABRIC. SET 2"-3" ABOVE FINISHED GRADE ON LOW SIDE OF WALL. DAYLIGHT PIPE IN LOCATION APPROVED BY LANDSCAPE ARCHITECT OR THROUGH WALL WEEP SET 8'-0" O.C. VISIBLE WEEPS HALL DAYLIGHT WITH TERRA COTTAINED ACCEPTED NOS EZ ELOW IS AN ACCEPTABLE OF TABLET OF THE PROPERTY. ACCEPTED. NDS EZ-FLOW IS AN ACCEPTABLE ALTERNATIVE.

13. MASON'S PRICING SHALL INCLUDE MATERIAL COST FOR ALL BRICK. STONE PAVEMENT SHALL BE PROVIDED BY G.C. MASON TO PROVIDE COST FOR UNLOADING AND INSPECTION OF STONE. MASON TO SUPPLY LABOR AND MATERIAL COST FOR

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