

VILLAGE OF ORLAND PARK 2014 ENTRY AND SITE IMPROVEMENTS AT: SPORTSPLEX RECREATION CENTER 11351 W. 159th STREET, ORLAND PARK, IL 60467

INDEX OF DRAWINGS

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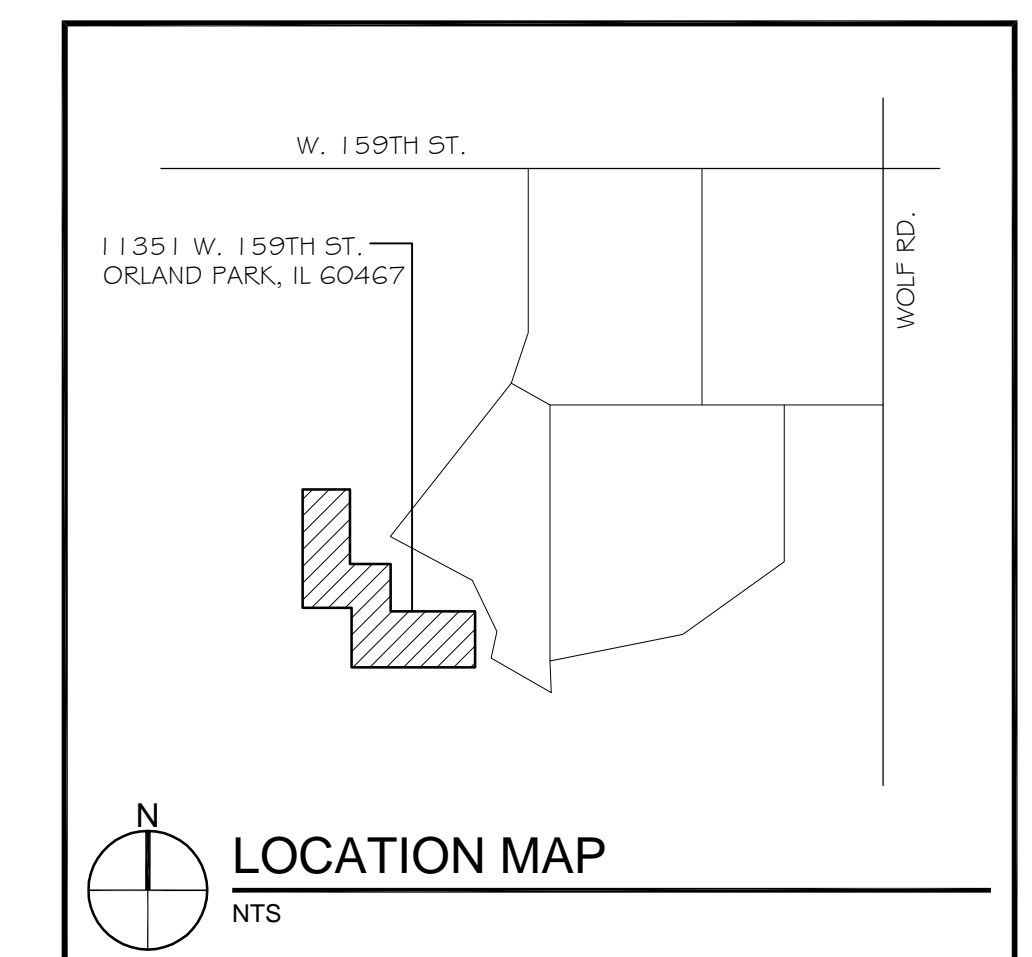
MARK DATE
4.29.2014 BID SET

PROJECT No: 2014.21
DATE: APRIL 29, 2014

SHEET TITLE:
TITLE SHEET AND GENERAL NOTES

SHEET:
G1

GENERAL NOTES	SYMBOLS LEGEND	MATERIALS LEGEND								
<ol style="list-style-type: none"> VERIFY ALL EXISTING CONDITIONS RELATED TO CONSTRUCTION COMPARED TO THE INFORMATION PROVIDED IN THE CONSTRUCTION DOCUMENTS. IF DISCREPANCIES OR CONFLICTS BETWEEN THE TWO ARE DISCOVERED, NOTIFY THE ARCHITECT FOR CLARIFICATION PRIOR TO SUBMITTING A BID AND/OR PERFORMING WORK. COMPLY WITH ALL APPLICABLE STATE AND LOCAL CODES. COORDINATE ALL TRADES PRIOR TO PERFORMING WORK INCLUDING BUT NOT LIMITED TO MECHANICAL, PLUMBING, ELECTRICAL, AND STRUCTURAL. STORE MATERIALS IN A MANNER NOT TO OVERSTRESS, OVERLOAD, OR OTHERWISE PUT AN INAPPROPRIATE LOAD ON ANY STRUCTURE DURING CONSTRUCTION. SCHEDULE AND COORDINATE ALL SHUT DOWNS OF EXISTING UTILITIES WITH THE OWNER IN ADVANCE OF A MINIMUM OF SEVEN (7) DAYS PRIOR TO SHUT DOWN. PREPARE ALL NECESSARY WORK PRIOR TO SHUT DOWNS. IF AT ALL POSSIBLE, COMBINE UTILITY SHUT DOWNS TO MINIMIZE THE IMPACT OF THE OWNER'S OPERATION OF EXISTING FACILITIES. SEE SPECIFICATIONS FOR ANY FURTHER DETAILS. LOCATE ALL MATERIALS, EQUIPMENT, TRUCKS, DUMPSTERS, AND CONSTRUCTION FACILITIES IN AREAS APPROVED BY OWNER. SPECIAL CARE SHALL BE TAKEN TO PREVENT DAMAGE TO EXISTING BUILDING STRUCTURE, LANDSCAPING, AND PAVED AREAS. PROVIDE WOOD PLANK PROTECTION BELOW ALL DUMPSTERS AND OTHER HEAVY EQUIPMENT. FIELD VERIFY AND COORDINATE THE EXACT LOCATIONS AND EXTENT OF ALL DEMOLITION AS REQUIRED. PROPERLY DISPOSE ALL ITEMS OFF SITE THAT ARE TO BE REMOVED. PROTECT OR SAFELY STORE ALL BUILDING AND SITE ELEMENTS THAT ARE TO REMAIN OR BE REUSED TO AVOID DAMAGE DURING THE CONSTRUCTION PROCESS. DAMAGED ITEMS SHALL BE REPAIRED OR REPLACED AT NO EXPENSE TO THE OWNER. 	<p>SECTION TAG</p> <p>TAG NOTE DRAWING NUMBER SHEET NUMBER</p> <p>NORTH ARROW</p> <p>DEMOLITION NOTE</p>	<table border="0"> <tr> <td></td> <td>CONCRETE (PLAN AND ELEVATION)</td> <td></td> <td>EARTH</td> </tr> <tr> <td></td> <td>CONCRETE (PLAN CUT AND SECTION)</td> <td></td> <td>GRANULAR FILL</td> </tr> </table>		CONCRETE (PLAN AND ELEVATION)		EARTH		CONCRETE (PLAN CUT AND SECTION)		GRANULAR FILL
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	CONCRETE (PLAN CUT AND SECTION)		GRANULAR FILL							





1 PARTIAL DEMOLITION SITE PLAN
1/8" = 1'-0"

GENERAL SITE PLAN NOTES

1. SEE SHEET G1 FOR GENERAL NOTES, SYMBOLS, & ABBREVIATIONS.
2. VERIFY ANY DISCREPANCIES BETWEEN EXISTING FIELD CONDITIONS NOT SHOWN. PLAN DIMENSIONS AND/OR INFORMATION NEEDED TO COMPLETE WORK. NOTIFY ARCHITECT.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ALL UNDERGROUND UTILITIES AND SHALL CONTACT J.U.L.I.E. (1-800-892-0123) AND EACH OF THE OTHER MUNICIPAL, GOVERNMENTAL AND/OR PRIVATE UTILITY COMPANIES, WHICH MAY HAVE FACILITIES LOCATED WITHIN THE LIMITS OF THE PROPOSED IMPROVEMENTS. THE CONTRACTOR SHALL PROVIDE THE OWNER AND PROJECT ARCHITECT AT LEAST TWO (2) WORKING DAYS OF NOTICE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
4. AFTER CONCRETE WORK HAS BEEN COMPLETED, RESTORE ALL ADJACENT DAMAGED GRASS AREAS W/ NEW PULVERIZED BLACK DIRT (6" MIN) AND OR SOD AND ALL ADJACENT DAMAGED PLANTED AREAS W/ MATCHING/SIMILAR MATERIALS OF SIMILAR SIZE/AGE AS DIRECTED BY OWNER.
5. AT AREAS INDICATED AS NEW CONG TO REPLACE EXISTING, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COMPLETELY REMOVE AND APPROPRIATELY DISPOSE OF EXISTING CONCRETE WALKS AND INSTALL NEW PER DETAILS SHOWN.
6. PATCH/REPAIR ALL ADJACENT CONCRETE/ASPHALT TO MATCH EXISTING AFTER REMOVAL AND INSTALLATION OF NEW CONCRETE.
7. SEE SHEET A2 FOR TYPICAL EXPANSION JOINT AND CONTRACTION JOINT DETAILS.

DEMOLITION KEYNOTES

- 1 REMOVE AND DISPOSE OF EXISTING CONCRETE WALK. RE-COMPACT EXISTING GRANULAR BASE.
- 2 ELECTRICALLY DISCONNECT AND REMOVE/DISPOSE OF EXISTING BOLLARDS. CUT DOWN EXISTING CONCRETE FOUNDATIONS A MINIMUM OF 8" BELOW THE BOTTOM OF THE NEW PROPOSED CONCRETE. REMOVE ASSOCIATED CONDUIT AND WIRE AS REQUIRED. INSTALL NEW CONDUIT AND WIRE TO LIGHT FIXTURES THAT ARE NOT BEING REMOVED TO MAINTAIN POWER TO ALL EQUIPMENT OUTSIDE THE AREA OF DEMOLITION - VERIFY EXTENT IN FIELD.
- 3 REMOVE, SALVAGE AND REINSTALL EXISTING BENCH IN SAME LOCATION AFTER CONCRETE WORK IS COMPLETE.
- 4 REMOVE AND DISPOSE OF PERIMETER BOTTOM TWO COURSES OF EXISTING MASONRY AS REQD TO INSTALL NEW CONCRETE PER DETAIL 5/A2. SHORE/BRACE EXISTING MASONRY AS REQD.

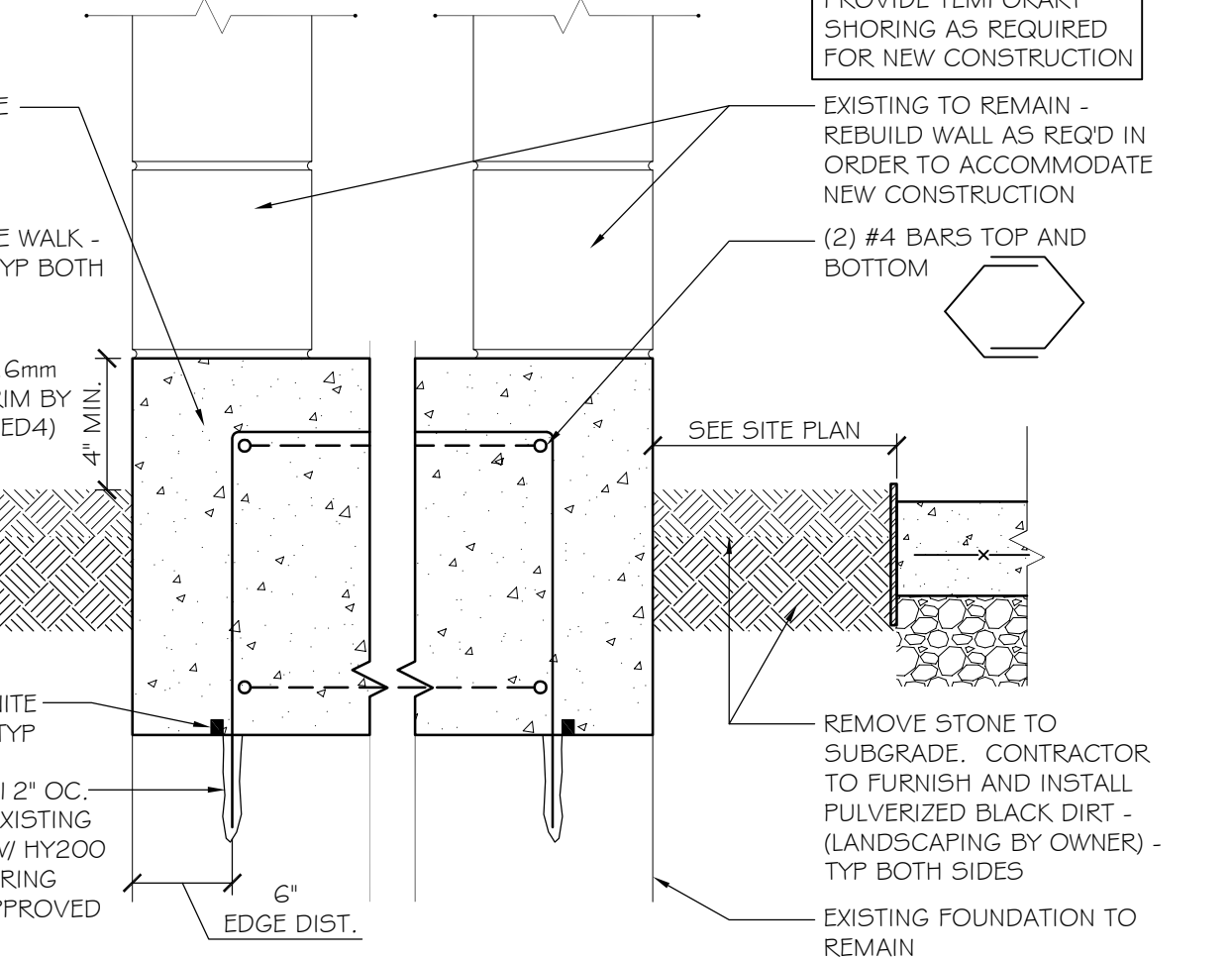
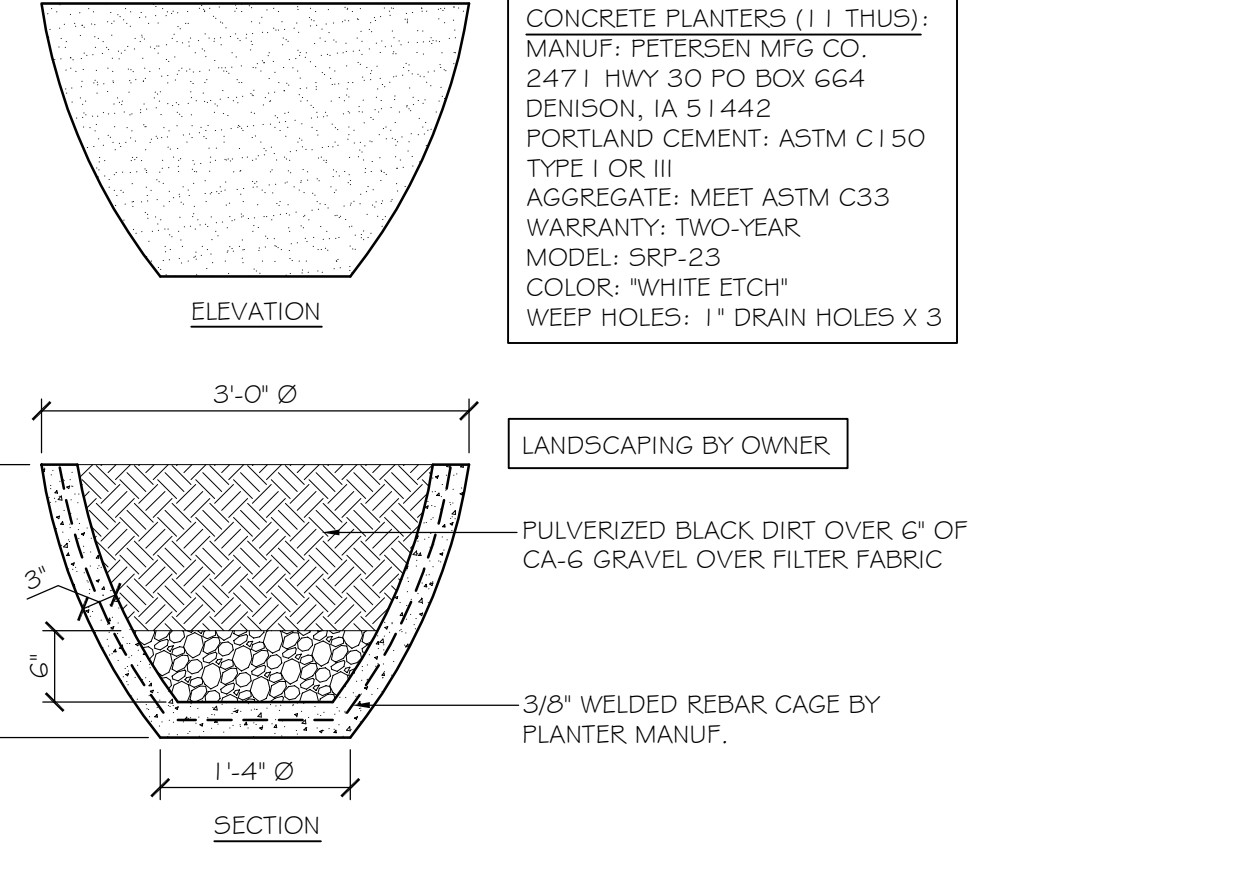
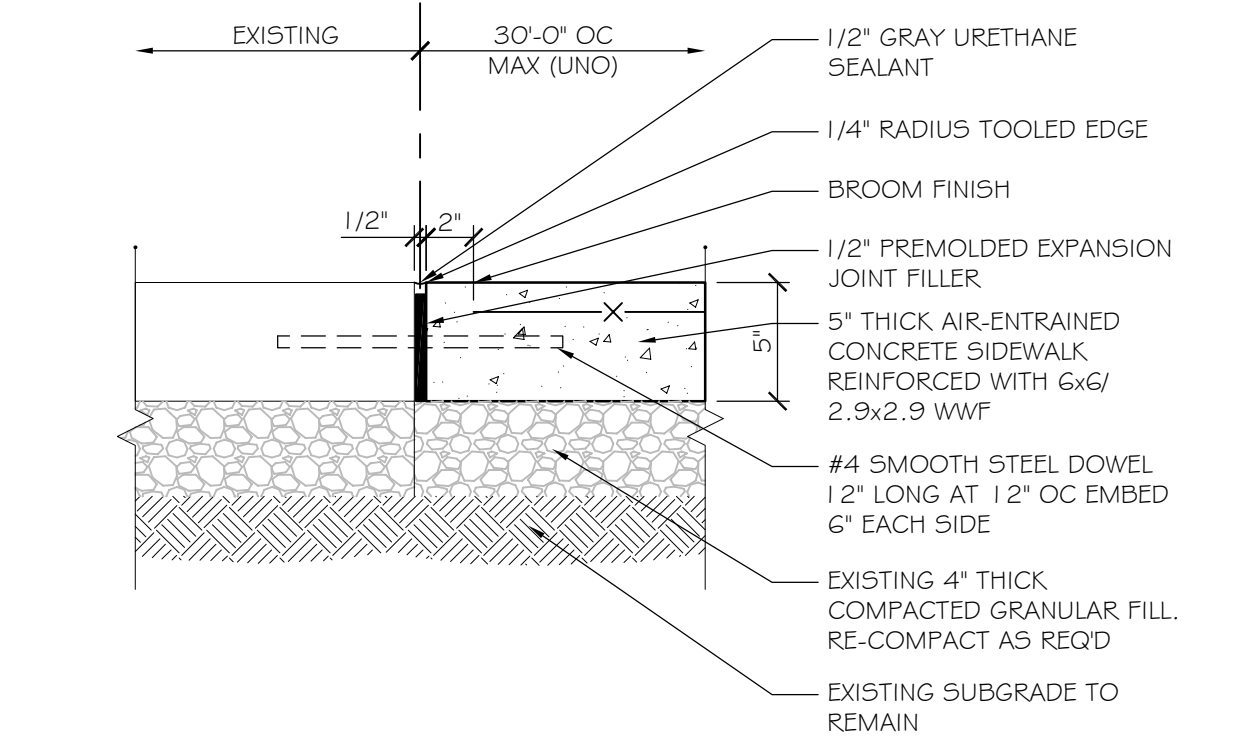
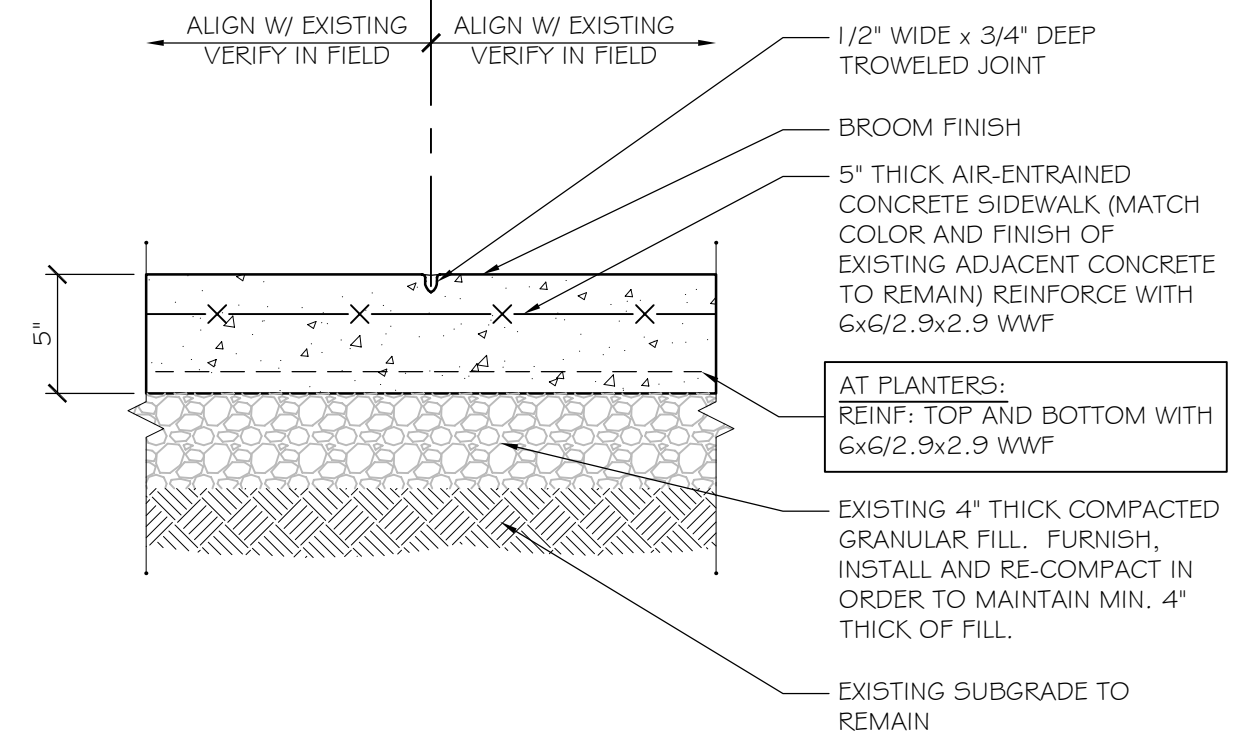
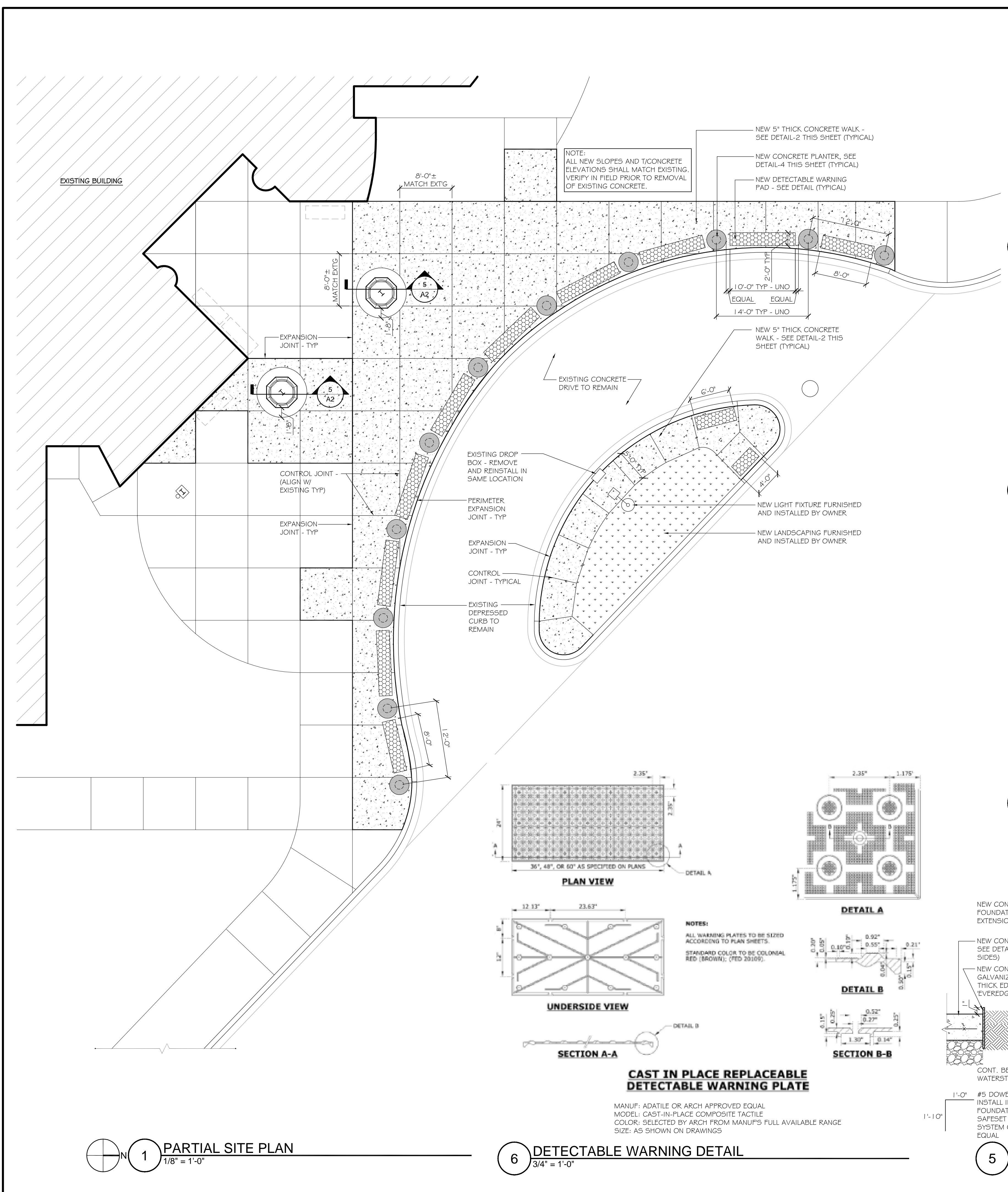


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SHEET TITLE:
PARTIAL DEMOLITION SITE PLAN

SHEET:
A1



CONCRETE SPECIFICATION

- STEEL REINFORCEMENT:

- REINFORCING BARS: ASTM A 615, GRADE 60, DEFORMED.
- PLAIN-STEEL WIRE: ASTM A 82.
- PLAIN-STEEL WELDED WIRE REINFORCEMENT: ASTM A 185, PLAIN, FABRICATED FROM AS-DRAWN STEEL WIRE INTO FLAT SHEETS.

- ADMIXTURES:

- AIR-ENTRAINING ADMIXTURE: ASTM C 260

- GRANULAR FILL (WHERE NEEDED):

- CLEAN MIXTURE OF CRUSHED STONE OR CRUSHED OR UNCRUSHED GRAVEL; ASTM D 448, SIZE 57, WITH 100 PERCENT PASSING A 1-1/2" SIEVE AND 0 TO 5 PERCENT PASSING A No. 8 SIEVE.

- STEEL REINFORCEMENT ACCESSORIES:

- JOINT DOWEL BARS: ASTM A 615, GRADE 60, PLAIN-STEEL BARS, CUT BARS TRUE TO LENGTH WITH ENDS SQUARE AND FREE OF BURRS.
- BAR SUPPORTS: BOLSTERS, CHAIRS, SPACERS, AND OTHER DEVICES FOR SPACING, SUPPORTING, AND FASTENING REINFORCING BARS AND WELDED WIRE REINFORCEMENT IN PLACE. MANUFACTURE BAR SUPPORTS FROM STEEL WIRE, PLASTIC, OR PRECAST CONCRETE ACCORDING TO CRSI'S "MANUAL OF STANDARD PRACTICE" OF GREATER COMPRESSIVE STRENGTH THAN CONCRETE AND AS FOLLOWS:
 - FOR CONCRETE SURFACES EXPOSED TO VIEW WHERE LEGS OF WIRE BAR SUPPORTS CONTACT FORMS, USE CRSI CLASS 1 PLASTIC-PROTECTED STEEL WIRE OR CRSI CLASS 2 STAINLESS-STEEL BAR SUPPORTS.

- EXTERIOR SLABS-ON-GRADE: PROPORTION NORMAL-WEIGHT CONCRETE MIXTURE AS FOLLOWS:

- MINIMUM COMPRESSIVE STRENGTH: 4500 PSI AT 28 DAYS.
- MAXIMUM WATER-CEMENTITIOUS MATERIALS RATIO: 0.44 (AIR-ENTRAINED).
- SLUMP LIMIT: 5 INCHES +/- 1 INCH.
- AIR CONTENT: 6 PERCENT, PLUS OR MINUS 1.5 PERCENT AT POINT OF DELIVERY FOR EXPOSED CONCRETE.

- HOT-WEATHER PLACEMENT - COMPLY WITH ACI 305 AND AS FOLLOWS:

- MAINTAIN CONCRETE TEMPERATURE BELOW 90 DEG F AT TIME OF PLACEMENT. CHILLED MIXING WATER OR CHOPPED ICE MAY BE USED TO CONTROL TEMPERATURE, PROVIDED WATER EQUIVALENT OF ICE IS CALCULATED TO TOTAL AMOUNT OF MIXING WATER. USING LIQUID NITROGEN TO COOL CONCRETE IS CONTRACTOR'S OPTION.
- FOG-SPRAY FORMS, STEEL REINFORCEMENT, AND SUBGRADE JUST BEFORE PLACING CONCRETE. KEEP SUBGRADE UNIFORMLY MOIST WITHOUT STANDING WATER, SOFT SPOTS, OR DRY AREAS.

- BROOM FINISH: APPLY A BROOM FINISH TO EXTERIOR CONCRETE WALKS.

- IMMEDIATELY AFTER FLOAT FINISHING, SLIGHTLY ROUGHEN TRAFFICKED SURFACE BY BROOMING WITH FIBER-BRISTLE BROOM PERPENDICULAR TO MAIN TRAFFIC ROUTE. COORDINATE REQUIRED FINAL FINISH WITH ARCHITECT BEFORE APPLICATION.

- CURE CONCRETE ACCORDING TO ACI 308.1, BY ONE OR A COMBINATION OF THE FOLLOWING METHODS:

- MOISTURE CURING: KEEP SURFACES CONTINUOUSLY MOIST FOR NOT LESS THAN SEVEN DAYS WITH THE FOLLOWING MATERIALS:
 - WATER.
 - CONTINUOUS WATER-FOG SPRAY.
 - ABSORPTIVE COVER, WATER SATURATED, AND KEEP CONTINUOUSLY WET. COVER CONCRETE SURFACES AND EDGES WITH 1/2-INCH LAF OVER ADJACENT ABSORPTIVE COVERS.

- CONCRETE TESTS: TESTING OF COMPOSITE SAMPLES OF FRESH CONCRETE OBTAINED ACCORDING TO ASTM C 172 SHALL BE PERFORMED ACCORDING TO THE FOLLOWING REQUIREMENTS:

- SLUMP: ASTM C 143; ONE TEST AT POINT OF PLACEMENT FOR EACH COMPOSITE SAMPLE, BUT NOT LESS THAN ONE TEST FOR EACH DAY'S FOUR OF EACH CONCRETE MIXTURE. PERFORM ADDITIONAL TESTS WHEN CONCRETE CONSISTENCY APPEARS TO CHANGE.
- AIR CONTENT: ASTM C 231, PRESSURE METHOD, FOR NORMAL-WEIGHT CONCRETE; ASTM C 173, VOLUMETRIC METHOD, FOR STRUCTURAL LIGHTWEIGHT CONCRETE; ONE TEST FOR EACH COMPOSITE SAMPLE, BUT NOT LESS THAN ONE TEST FOR EACH DAY'S FOUR OF EACH CONCRETE MIXTURE.
- CONCRETE TEMPERATURE: ASTM C 1064; ONE TEST HOURLY WHEN AIR TEMPERATURE IS 40 DEG F AND BELOW AND WHEN 80 DEG F AND ABOVE, AND ONE TEST FOR EACH COMPOSITE SAMPLE.
- UNIT WEIGHT: ASTM C 567, FRESH UNIT WEIGHT OF STRUCTURAL LIGHTWEIGHT CONCRETE; ONE TEST FOR EACH COMPOSITE SAMPLE, BUT NOT LESS THAN ONE TEST FOR EACH DAY'S FOUR OF EACH CONCRETE MIXTURE.
- COMPRESSION TEST SPECIMENS: ASTM C 31/C 31M.
 - CAST AND LABORATORY CURE TWO SETS OF TWO STANDARD CYLINDER SPECIMENS FOR EACH COMPOSITE SAMPLE.
 - CAST AND FIELD CURE TWO SETS OF TWO STANDARD CYLINDER SPECIMENS FOR EACH COMPOSITE SAMPLE.
- COMPRESSIVE-STRENGTH TESTS: ASTM C 39/C 39M; TEST ONE SET OF TWO LABORATORY-CURED SPECIMENS AT 7 DAYS AND ONE SET OF TWO SPECIMENS AT 28 DAYS.
 - TEST ONE SET OF TWO FIELD-CURED SPECIMENS AT 7 DAYS AND ONE SET OF TWO SPECIMENS AT 28 DAYS.
 - A COMPRESSIVE-STRENGTH TEST SHALL BE THE AVERAGE COMPRESSIVE STRENGTH FROM A SET OF TWO SPECIMENS OBTAINED FROM SAME COMPOSITE SAMPLE AND TESTED AT AGE INDICATED.
- WHEN STRENGTH OF FIELD-CURED CYLINDERS IS LESS THAN 85 PERCENT OF COMPANION LABORATORY-CURED CYLINDERS, CONTRACTOR SHALL EVALUATE OPERATIONS AND PROVIDE CORRECTIVE PROCEDURES FOR PROTECTING AND CURING IN-PLACE CONCRETE.
- STRENGTH OF EACH CONCRETE MIXTURE WILL BE SATISFACTORY IF EVERY AVERAGE OF ANY THREE CONSECUTIVE COMPRESSIVE-STRENGTH TESTS EQUALS OR EXCEEDS SPECIFIED COMPRESSIVE STRENGTH AND NO COMPRESSIVE-STRENGTH TEST VALUE FALLS BELOW SPECIFIED COMPRESSIVE STRENGTH BY MORE THAN 500 PSI.
- TEST RESULTS SHALL BE REPORTED IN WRITING TO ARCHITECT, CONCRETE MANUFACTURER, AND CONTRACTOR WITHIN 48 HOURS OF TESTING. REPORTS OF COMPRESSIVE-STRENGTH TESTS SHALL CONTAIN PROJECT IDENTIFICATION NAME AND NUMBER, DATE OF CONCRETE PLACEMENT, NAME OF CONCRETE TESTING AND INSPECTING AGENCY, LOCATION OF CONCRETE BATCH IN WORK, DESIGN COMPRESSIVE STRENGTH AT 28 DAYS, CONCRETE MIXTURE PROPORTIONS AND MATERIALS, COMPRESSIVE BREAKING STRENGTH, AND TYPE OF BREAK FOR BOTH 7- AND 28-DAY TESTS.

- EXPANSION AND ISOLATION JOINT FILLER STRIPS:

- ASTM D 1751, ASPHALT-SATURATED CELLULOSIC FIBER

- STAINING:

- STAIN NEW CONCRETE IN ORDER TO MATCH EXISTING ADJACENT CONCRETE - VERIFY EXACT COLOR/FINISH IN FIELD.

