

SUMMARY OF SERVICES

Since 1996, INTERRA is an industry leading provider of **Engineering, Inspection, and Material Testing** services delivered in support of construction, development, and environmental projects throughout the Midwest.

ENGINEERING

Geotechnical

- Subsurface soil exploration, soil borings, soil classification and evaluation, geotechnical reports
- Roadway/structure geotechnical reports
- Slope stability and settlement analyses
- Design of specialized foundation systems
- Seismic analysis

Environmental

- Phase I and II and UST investigations
- Hydrogeological studies
- Solid and hazardous waste landfill design
- Groundwater and contaminant modeling
- Regulatory compliance reviews
- Remediation design and oversight
- Clean Construction Demolition Debris

CONSTRUCTION MANAGEMENT, FIELD INSPECTION, & TESTING

- Construction observation, change management, stakeholder coordination, and resident engineering
- Department of Transportation QC/QA Certified Engineering Technicians
- Soil excavation observations and recommendations
- Mass earthwork monitoring
- On-Site bearing capacity determinations, soil density testing
- Compaction testing of soils, aggregates, and asphalt
- Piles and caisson monitoring and testing
- Precast, PCC, and HMA plant and field inspections
- Masonry, mortar, and grout placement investigations and testing
- Weld inspections
- Structural steel non-destructive testing
- Floor flatness testing
- Pile lead testing
- Landfill construction monitoring, CQA
- Roof moisture surveys and installation observation
- Fire proofing and fire safety testing and inspection



LABORATORY TESTING

- **Accredited Laboratories: DOT, AASHTO, US Army Corps of Engineers**
- Soil Analyses: Proctor, Atterberg limits, particle size, flexwall permeability, direct shear, consolidation, triaxial, classification, organics, etc.
- PCC Testing: compressive strength, cores, flexural cylinder beams
- Hot- and Warm-Mix Asphalt testing: Maximum and Bulk Specific Gravity, voids, AC content by reflux extraction and ignition oven, Hamburg Wheel, mix designs, etc.

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Cost-effective, common-sense solutions to demanding engineering problems

Value-added inspection services to achieve project and owner objectives

Reliable material testing data when promised to facilitate project decisions and progress

COMPANY OVERVIEW

Since 1996, INTERRA is an industry leading provider of Engineering, Inspection, and Material Testing services delivered in support of construction, development, and environmental projects throughout the Midwest.

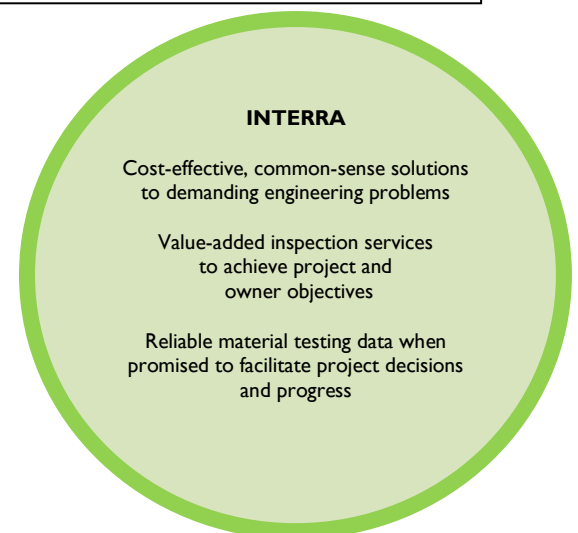
OFFICE / LABORATORY LOCATIONS	
Bolingbrook, IL • Chicago, IL • Itasca, IL • Franklin, WI	
ENGINEERING SERVICES	INSPECTION and TESTING SERVICES
Geotechnical • Environmental Investigation • Design • Oversight	Materials • Structures Construction Site • Plant • Laboratory
MARKETS	
Aviation • Commercial • Education • Federal • Healthcare Landfills • Municipal Transportation • State Transportation	
PROJECT TYPES	
Office Buildings • Highways • Subdivisions • Schools • Hospitals State & City Roadways • Earth Embankments / Levees • Retail Centers • Retirement Homes Wastewater Treatment Facilities • Bridges • Industrial Buildings • Airports Sanitary & Ash Landfills • Water & Sewer Improvements • Parking Lots • Recreational Facilities	
CERTIFICATIONS / ACCREDITATIONS	
<ul style="list-style-type: none"> • Prequalified: State DOTs; multiple categories for construction inspection and testing • Material testing laboratories accredited by state DOTs, AASHTO and U.S. Army Corp of Engineers • Certified DBE/MBE with state DOTs (IL, WI), City of Chicago 	

OUR MISSION

INTERRA's mission is to provide preeminent engineering, inspection, and testing services to our valued clients in support of construction, development, and environmental projects throughout the Midwest by focusing on quality, technology, personnel expertise, and technical qualifications and certifications.

MEETING OUR MISSION

- We invest in hiring the best of the best in our industry
- We employ a company-wide technology backbone to drive quality and fast-track laboratory test results
- Our company culture is based on service with a goal of complete client satisfaction



Since 1996, INTERRA has provided construction inspection services, comprehensive field and laboratory materials testing services, and geotechnical/environmental engineering consulting services to a wide range of end-user markets throughout the Midwest. Our experienced staff includes PEs, PhDs, and DOT-QC/QA Certified Engineering Technicians. Our IDOT, AASHTO, AMRL and US Army Corps of Engineers certified laboratories provide reliable, fast-track results for common and advanced laboratory tests of soils, concrete, hot-mix asphalt and aggregate.

GEOTECHNICAL & ENVIRONMENTAL ENGINEERING SERVICES

SUMMARY of SERVICES

Geotechnical

- Subsurface soil explorations, soil classification and evaluation, geotechnical reports (including SGR and RGR)
- In situ van shear and pressure meter testing
- Roadway/structure geotechnical reports
- Slope stability and settlement analyses
- Design of specialized foundation systems
- Seismic analysis



Environmental

- Phase I and II investigations; environmental site assessment / characterization
- Pre-Demolition inspection / assessment of hazardous building materials
- Management / disposal oversight of impacted soils and hazardous building materials
- Solid and hazardous waste landfill design
- Site health and safety plans, protocols
- Groundwater and soil sampling
- Regulatory compliance reviews
- Remediation design and oversight



REPRESENTATIVE CLIENTS

- Chicago DOT, ISTHA, City of Evanston, IL
- US Army Corps of Engineers
- Chicago Department of Aviation
- General Contractors: Walsh Construction Group
- A/E Firms: Hey & Associates, TranSystems, V3
- City of Chicago, Department of Transportation

REPRESENTATIVE PROJECTS

- O'Hare International Airport – Terminal 6 Phase I/II, Remedial Action
- Forrestal Village, Great Lakes Naval Base
- Willow Road Reconstruction; Northfield, IL
- McCormick Boulevard and Sheridan Road, Evanston, IL
- Dan Ryan Expressway Rehabilitation

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Cost-effective, common-sense solutions to demanding engineering problems

Value-added inspection services to achieve project and owner objectives

Reliable material testing data when promised to facilitate project decisions and progress

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CONSTRUCTION MANAGEMENT SERVICES

SUMMARY OF SERVICES

- Resident Engineering including construction management, observation, and inspection
- Maintenance of traffic planning and implementation coordination
- Change management including preparation of pay estimates, authorizations, change orders, and extra work approvals
- Daily quantity and material documentation
- Stakeholder and community outreach
- Constructability and plan reviews
- ADA/PROWAG reviews and construction oversight
- Utility relocation coordination and conflict resolution
- Agency and adjacent community coordination
- Preconstruction and progress meeting leadership
- Erosion and sediment control inspections/reporting
- Record drawing preparation, assembly, and distribution
- Punchlist oversight and final acceptance coordination
- Project closeout management



REPRESENTATIVE CLIENTS

- Illinois Department of Transportation
- Illinois Tollway
- Public Building Commission
- Chicago Department of Aviation
- Chicago Department of Transportation
- Local Agencies: Bolingbrook, Evanston
- A/E Firms: DLZ, TranSystems, TY Lin, V3

REPRESENTATIVE PROJECTS

- CM Upon Request, RR-18-4378, Illinois Tollway
- I-74, Peoria, IDOT
- Cleaning & Televising Sewer Lines, RR-18-4406
- Forrestal Village, Great Lakes Naval Base
- Willow Road Reconstruction, Northfield, IL
- McCormick Boulevard and Sheridan Road, Evanston, IL
- Dan Ryan Expressway Rehabilitation

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FIELD INSPECTION SERVICES PRESTRESS AND PRECAST CONCRETE PLANT INSPECTIONS

SUMMARY of SERVICES

- **Certified PCI Inspectors**
- Services performed per the Manual of Precast Pre-Stressed Concrete Products; Section 1.3 Quality Assurance for typical structures including: Deck Beams (Box Beams), Noise Walls, MSE Wall Panels, Drainage Structures, Retaining Walls, and Architectural Panels
- Inspection of flow of wet precast concrete, review mix designs, and check rebar placement
- Observation of:
 - Strand tensioning and fabrication details
 - Concrete pour
 - Tolerance measurements
 - Compressive strength for strand release and final shipping strength (28 days)
- Final inspections for crack measurements
- Inspection forms completed and submitted
- Each beam inspected and stamped at shipping



REPRESENTATIVE CLIENTS

- Illinois Department of Transportation (IDOT)
- Illinois State Toll Highway Authority (ISTHA)
- U.S. Department of Navy
- Chicago Public Building Commission

REPRESENTATIVE PROJECTS

- IL DOT: Various District 2 Phase III Projects (PTB 154-026) and Precast Plant Inspections for District 1
- ISTHA: Precast Plant QA Contract and Tollway Systemwide Contract (I-10-5607)
- Chicago Public Building Commission: Back of the Yards High School, Edgewater Library
- U.S. Department of Navy: Camp Porter Barracks, Great Lakes Naval Base
- Inspected nine plants, Located In: Illinois, Wisconsin, and Indiana

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FIELD INSPECTION SERVICES ROADS AND HIGHWAYS

SUMMARY of SERVICES

- **Department of Transportation QC/QA Certified Engineering Technicians**
- Quality Assurance and Quality Control services for soils, concrete and hot-mix asphalt; including Precast, PCC, and HMA plant and field inspections
- Monitoring, inspection, observation, and daily documentation of construction activities
- Mass earthwork monitoring; soil excavation observations and recommendations
- Materials coordination: HMA, PCC, and QA of soils and aggregate materials
- Monitoring sub-grade testing, proof-rolling, PGE placement, PGE crushing, soil backfill compaction
- Pile driving and MSE wall inspections
- Rubblized sub-base inspection
- On-Site bearing capacity determinations, soil density testing
- Compaction testing of soils, aggregates, and asphalt
- Piles and caisson monitoring and testing



REPRESENTATIVE CLIENTS

- State DOTs, ISTHA, Chicago DOT
- General Contractors: Walsh Construction Group, Kiewit, F.H. Paschen
- Municipalities: Chicago, Evanston, Bolingbrook, Downers Grove, Burr Ridge
- A/E Firms; URS, HNTB, TranSystems, V3, Stanley, PB, Globetrotters, exp, HLR

REPRESENTATIVE PROJECTS

- Circle Interchange Northwest Flyover
- I-390 at I-290 Flyover
- Elgin O'Hare Western Access (EOWA) Corridor
- I-294 Expressway between I-80
- Reagan Memorial Tollway I-88 Corridor
- IL Route 59 Diamond Interchange
- LaGrange Road US-45
- IL Route 31, Algonquin Western Bypass

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FIELD INSPECTION SERVICES

FEDERAL AGENCIES AND DEPARTMENTS

SUMMARY of SERVICES

- Concrete field and laboratory testing
- Asphalt field and laboratory testing
- Mortar and grout testing
- Floor flatness testing
- Rebar inspection and pull test
- Pile installation inspections
- Structural steel inspection and testing
- Soil testing including Proctor, Grain Size/Hydrometer, Percent Fines, Organic Content, Moisture Content (Oven/Microwave), Unconfined Compressive Strength
- Field compaction tests using Nuclear Density Gauge and Sand Cone Tests
- Salinity and chemical water analysis (for deep soil mixing operations)
- Visual and Magnetic Particle Testing of Fillet Welds
- Visual and Ultrasonic Testing of Butt Joints
- Bearing pressure tests, Penetration tests



REPRESENTATIVE CLIENTS

- United States Department of Navy
- United States Army Corps of Engineers
- Saint Bernard Levee Partners (URS Corporation)
- Clark/Blinderman Joint Venture
- Archer Western-Alberici Joint Venture

REPRESENTATIVE PROJECTS

- Great Lakes Recruit Training Center, Camp Porter Project
- LPV 146-Chalmette Loop Levee
- LPV 111-New Orleans East Back Levee
- Lockport Pool & Canal Rehabilitation
- Des Plaines River Floodwall
- Fox River Dams
- Lake George Sediment Disposal Basins

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FIELD INSPECTION SERVICES AIRPORTS

SUMMARY of SERVICES

- **Department of Transportation QC/QA Certified Engineering Technicians**
- Quality Assurance and Quality Control services for soils, concrete, and asphalt
- Monitoring and daily documentation of construction activities (including self-consolidating concrete, retaining walls, drilled shafts and columns)
- Materials coordination and QA of soils and aggregate materials
- Monitoring sub-grade testing, Proof Rolling, PGE placement and crushing, soil backfill compaction
- Geotechnical inspection and testing
- Concrete plant and field inspections
- Hot-Mix Asphalt plant and field inspections
- Pile driving and MSE wall inspections
- Checking of soil bearing pressure



REPRESENTATIVE CLIENTS

- Bechtel Corporation
- Walsh Construction
- Alfred Benesch Company
- United Airlines / Bovis Lend Lease
- Greco Constructors
- Milwaukee General Construction

REPRESENTATIVE PROJECTS

- O'Hare Modernization Program (OMP)
- Midway Security Checkpoint Expansion
- O'Hare New Transmission Mains
- Palwaukee Airport
- Midway Airport AirSide Pavement
- DuPage County Airport
- Joliet Airport
- Gary Regional Airport
- GEM Building, United Airlines
- Aurora Airport
- General Mitchell International Airport

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FIELD INSPECTION SERVICES

LANDFILL DESIGN/CONSTRUCTION QUALITY ASSURANCE

SUMMARY of SERVICES

- **Construction Quality Assurance (CQA)**
- Field density testing of clay liners
- Non-destructive testing of synthetic liners
- Laboratory testing including flexwall permeability, soil index, and Proctor tests
- Construction monitoring of the following:
 - Test pads
 - Clay and synthetic liner placement
 - Protective geo-textile and drainage material placement
 - System evaluation of leachate extraction and submersible pump station pumps
 - Trial seaming and destructive seam testing and repair operations
 - Surveying
 - Pressure testing of leachate pipes
- Construction documentation, including daily reporting and photo documentation
- Preparation of final layout drawings and certification reports



REPRESENTATIVE CLIENTS

- NIPSCO
- North Shore Sanitary District (NSSD)
- Veolia Environmental Services
- United States Air Force
- Waste Management

REPRESENTATIVE PROJECTS

- NSSD Zion Landfill Cell Construction (IL)
- RM Schaffer Generating Station Landfill Construction (IN)
- Madison Prairie Landfill Construction (WI)
- Leachate Holding Pond and Pad Pond Construction
- Newport Township Landfill Construction

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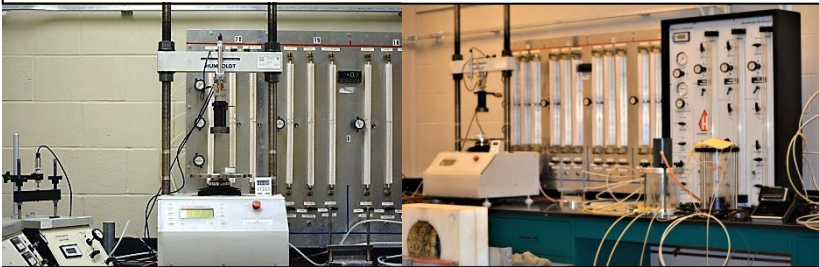
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LABORATORY SERVICES

SUMMARY of SERVICES

DOT, AASHTO, US Army Corps of Engineers Certified Laboratories

- **Soils Testing:** Moisture content, unit weight, sieve analysis including hydrometer, Atterberg Limits, shrinkage, organic content by loss on ignition and wet combustion, percent fines, Proctor, CBR, IBR, permeability including flexwall, direct shear, consolidation, triaxial, unconfined compressive strength, specific gravity, pH
- **Aggregate Testing:** Sieve analysis, moisture content, unit weight and voids, organic impurities, slag count, surface moisture, soundness by sulfate, specific gravity and absorption, LA Abrasion, flat and elongated particles, abrasion by Micro-Deval, carbonate content, hydraulic conductivity
- **Portland Cement Concrete (PCC) and Masonry Testing:** Compressive strength of cylinders, cubes and drilled cores, flexural strength of beams, thickness of drilled cores, rebound or penetration resistance, maturity testing, grout
- **Hot- and Warm-Mix-Asphalt Testing:** Sieve analysis, moisture or volatile distillates, maximum specific gravity and density, bulk specific gravity, percent air voids, tensile strength ratio (TSR), asphalt content by ignition and extraction, density by Superpave gyratory, density by Marshall, stability and flow, density and thickness of pavement cores, rut resistance by Hamburg Wheel



Representative Clients

- State DOTs: Illinois, Wisconsin
- U.S. Army Corps of Engineers
- General Contractors: Bechtel, Walsh Construction Group, Kiewit, WRS, Bovis Lend Lease
- Municipalities: Bolingbrook, Burr Ridge, Chicago, Downers Grove, Evanston, Lemont, Naperville, Skokie
- United States Department of Navy
- A/E Firms: AECOM, URS, HNTB, TranSystems
- United Airlines

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