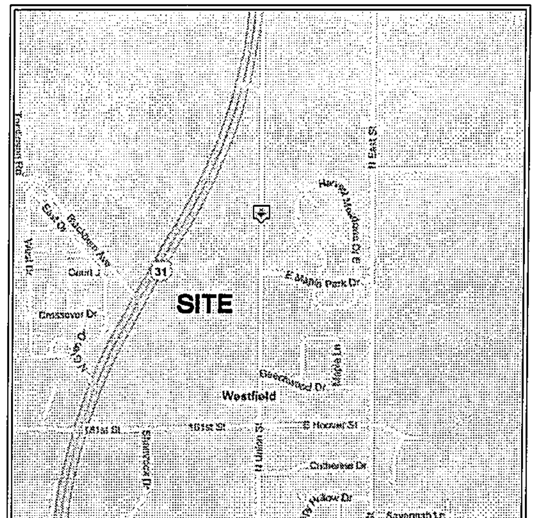
CONSTRUCTION PLANS FOR WESTFIELD HIGH SCHOOL ADDITION

OWNER:

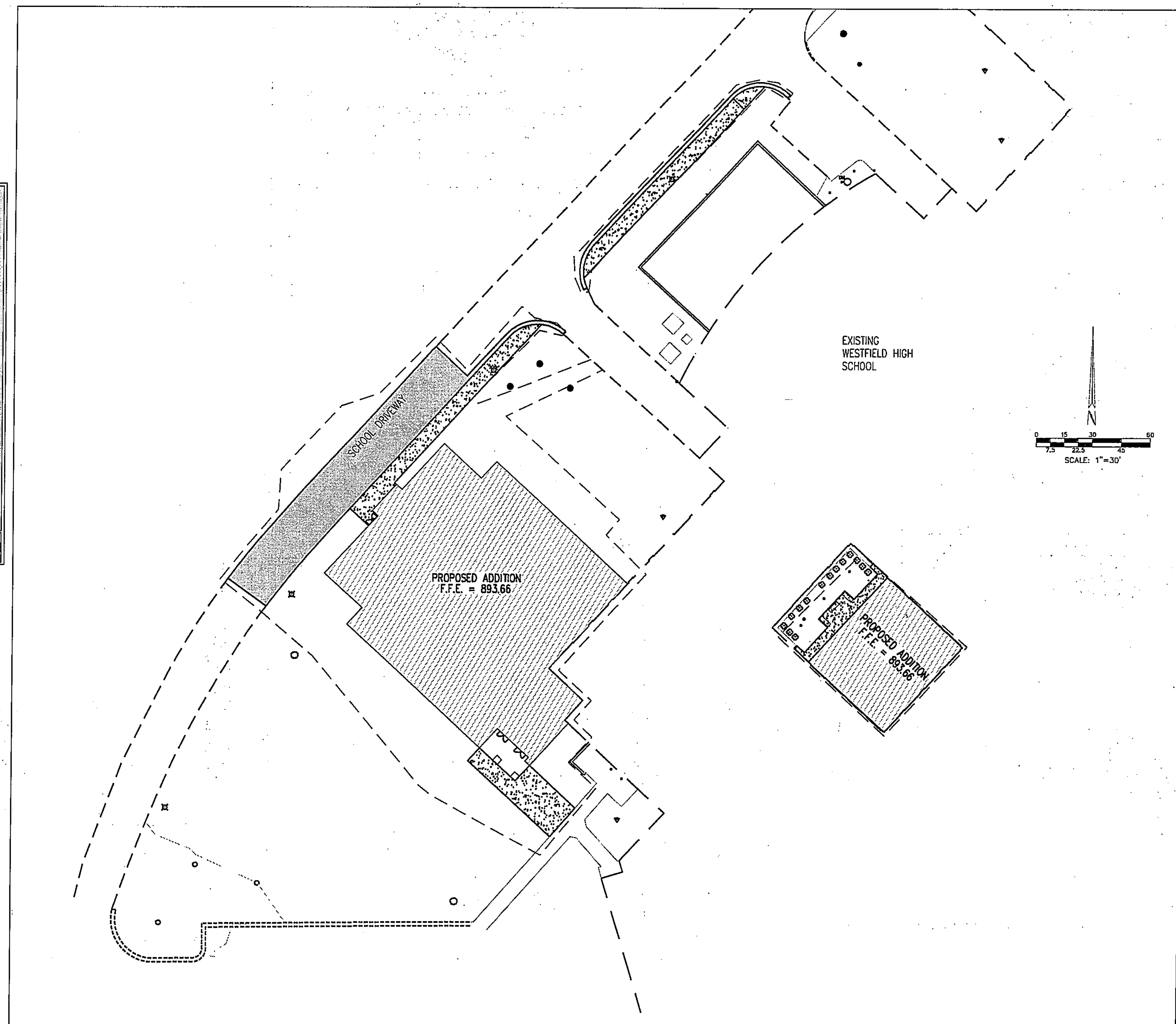
WESTFIELD WASHINGTON SCHOOLS
322 WEST MAIN ST
WESTFIELD, IN 46074
CONTACT: NICK VERHOFF
Ph. (317) 867-8013

ENGINEER:

Cripe
Architects + Engineers
Solutions by Design Since 1937
3939 PRIORITY WAY SOUTH DRIVE, SUITE 400
INDIANAPOLIS, INDIANA 46240
(317) 844-6777 FAX (317) 706-6464



LOCATION MAP
NOT TO SCALE



PROJECT DATA

Project Address:	*18250 UNION STREET*
Project Area:	*38,199 SF DISTURBED AREA*
Building Area:	*14,455 SF BUILDING ADDITION*
	3,225 SF COURTYARD ADDITION
	17,680 SF TOTAL

INDEX

SHT	DESCRIPTION
CS	COVER SHEET
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A201	FIRST FLOOR PLAN
A202	SECOND FLOOR PLAN
A301	EXTERIOR BUILDING ELEVATIONS

BENCHMARKS

REFERENCE BENCHMARK: NGS STANDARD BENCHMARK DISK (STAMPED "B 112 1946") SET IN THE TOP OF A CONCRETE POST LOCATED ON THE NORTH SIDE OF STATE HIGHWAY 32 APPROXIMATELY 2.25 MILES WEST OF WESTFIELD HIGH SCHOOL, 1.0 MILE EAST OF THE CROSS ROAD AT EAGLE TOWN, 0.25 MILES EAST OF THE JUNCTION WITH A ROAD LEADING NORTH, AND 24 FEET NORTH OF THE CENTERLINE OF THE HIGHWAY.

ELEV.=924.61 (NGVD 1929)

SITE T.B.M. #1: MAG NAIL DRILLED INTO THE TOP OF A 2 FOOT DIAMETER, 3 FOOT TALL CONCRETE LIGHT POLE BASE LOCATED IN THE HIGH SCHOOL PARKING LOT, 128 FEET NORTHEAST OF THE NORTHEAST CORNER OF THE HIGH SCHOOL BUILDING.

ELEV.=892.91 (NGVD 1929)

SITE T.B.M. #2: MAG NAIL DRILLED INTO THE TOP OF A 2 FOOT DIAMETER, 3 FOOT TALL CONCRETE LIGHT POLE BASE LOCATED AT THE NORTHWEST CORNER OF THE INTERSECTION OF THE FIRST SOUTH ENTRANCE DRIVE OF THE HIGH SCHOOL WEST OF UNION STREET AND HOOVER ROAD.

ELEV.=894.23 (NGVD 1929)

UTILITY AND AGENCY CONTACT INFORMATION

UTILITY/ AGENCY	PHONE NO
WESTFIELD PUBLIC WORKS	317-896-5452
WESTFIELD FIRE DEPT.	317-896-2704
WESTFIELD COMMUNITY DEVELOPMENT	317-896-5577
HAMILTON COUNTY SURVEYOR	317-776-8495
CITIZENS GAS OF WESTFIELD	317-927-4684
DUKE ENERGY	317-896-6711

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CAUTION

LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (including, but not limited to, manholes, inlets, valves, and marks made upon the ground by others) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF SAID EXISTING UNDERGROUND UTILITIES SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

CRIPE TEAM

		PHONE NO.
PROJECT MGR	GRAHAM LEWIS	317-706-6365
PROJECT ENGR	JOHN NIERZWICKI, E.I.	317-706-6350
PROJECT SURVEYOR	MATT QUILLEN	317-706-6319
CAD TECH.	MARK WAGNER	317-706-6428
QUALITY ASSURANCE	DAVID LACH, P.E.	317-706-6361

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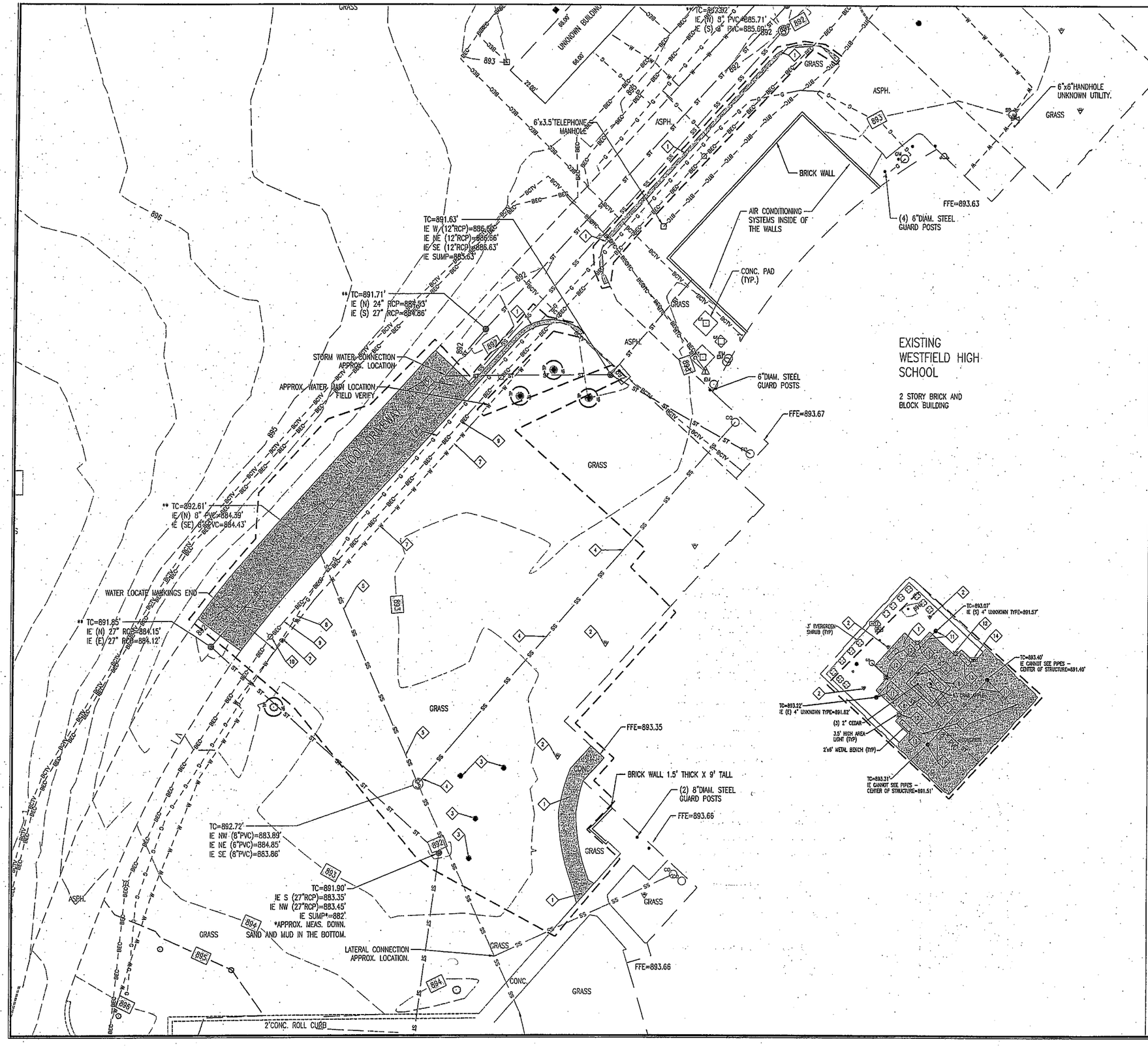
COVER SHEET
WESTFIELD HIGH SCHOOL ADDITION
WESTFIELD WASHINGTON SCHOOLS
322 WEST MAIN STREET
WESTFIELD, IN 46074

DAVID A. LACH
REGISTERED
PE 10900128
STATE OF INDIANA
PROFESSIONAL ENGINEER

Date 01-05-09

Sheet CS
Date 01-05-09
Project Number 040338-20201



EXISTING FEATURES LEGEND

SS	SANITARY SEWER & MANHOLE		POWER POLE
ST	STORM SEWER; END SECTION, INLET & M.H.		GUY WIRE
G	GAS LINE		TELEPHONE RISER
W	WATER LINE		UTILITY RISER; ELEC. & CTV
E	ELECTRIC LINE (AERIAL)		ELECTRIC TRANSFORMER
T	TELEPHONE LINE (AERIAL)		STREET LIGHT
CTV	CABLE TELEVISION (AERIAL)		LIGHT POLE
BTC	BURIED TELE. CABLE		FLOOD LIGHT
BEC	BURIED ELEC. CABLE		TRAFFIC SIGNAL
X	FENCE LINE (FNC)		FIRE HYDRANT
BCTV	BURIED CABLE TV		VALVE; GAS & WATER
	GUARDRAIL		STREET SIGN
	RIGHT OF WAY LINE		ELECTRIC MANHOLE
	EASEMENT LINE		TELEPHONE MANHOLE
	CENTER LINE		SEWER CLEANOUT
SWALE	SWALE LINE		WATER METER
D.	DEED DIMENSION		GAS METER
M.	MEASURED DIMENSION		ELECTRIC METER
P.	PLAT DIMENSION		PIPELINE MARKER POST
R.	RADIUS		PIPELINE PATROL PLANE MARKER
L	ARC LENGTH		PIPELINE CASING VENT
FND.	FOUND		PIPELINE TEST STATION
			MAILBOX
			SPRINKLER HEAD
		+892.25	SPOT GRADE
		TC	TOP OF CASTING ELEVATION
		IE	INVERT ELEVATION

⊙ DENOTES A 5/8" DIA. REBAR WITH YELLOW PLASTIC CAP SET. CAP STAMPED "P.J. CRIPE FIRM NO. 0055" UNLESS OTHERWISE NOTED.

LEGEND
PROPOSED DEMOLITION

EXISTING TO BE DEMOLISHED

TREE PRESERVATION — TP — TP —

CONSTRUCTION LIMITS

REFERENCE BENCHMARK: NGS STANDARD BENCHMARK DISK (STAMPED "D 112 1946") SET IN THE TOP OF A CONCRETE POST LOCATED ON THE NORTH SIDE OF STATE HIGHWAY 32 APPROXIMATELY 2.25 MILES WEST OF WESTFIELD HIGH SCHOOL, 1.0 MILE EAST OF THE CROSS ROAD AT EAGLE TOWN, 0.25 MILES EAST OF THE JUNCTION WITH A ROAD LEADING NORTH, AND 24 FEET NORTH OF THE CENTERLINE OF THE HIGHWAY.

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ELEV.=894.23 (NGVD 1929)

GENERAL DEMOLITION PLAN NOTES:

1. THE CONTRACTOR SHALL VERIFY EXISTING UTILITY LOCATIONS PRIOR TO BEGINNING EXCAVATION OPERATIONS.
2. THE CONTRACTOR SHALL COORDINATE ALL WORK ASSOCIATED WITH THE REMOVAL, RELOCATION, AND DEMOLITION OF EXISTING UTILITIES WITH THE RESPECTIVE UTILITY COMPANY.
3. ALL DEMOLISHED MATERIAL TO BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE NOTED, AND SHALL BE LEGALLY DISPOSED OF OFF-SITE.
4. CONTRACTOR SHALL INSTALL PROTECTIVE FENCING AT DRIPLINE TO PRESERVE EXISTING TREES
5. MAINTAIN PROPER DRAINAGE IN DEMOLITION AREAS.
6. SAW CUT EXISTING CONCRETE AND ASPHALT SURFACES FOR REMOVAL AS NOTED.
7. REMOVE AND RELOCATE WATER MAIN (SEE UTILITY PLAN)
8. REMOVE AND RELOCATE GAS MAIN. COORDINATE WITH UTILITY COMPANY (SEE UTILITY PLAN)
9. TREES SHOWN TO BE RELOCATED SHALL BE REMOVED AND REPLANTED IN ACCORDANCE WITH THE "LAWNS AND GRASSES" SECTION OF THE PROJECT MANUAL. TREES SHALL BE RELOCATED ONLY WITHIN THE AREAS SHOWN.
10. EXISTING WATER LINES SHALL NOT BE ABANDONED OR DEMOLISHED UNTIL PROPOSED WATER MAINS HAVE BEEN INSTALLED TO A POINT SUCH THAT ONLY MINIMAL DISRUPTION IN WATER SERVICE TO THE EXISTING OCCUPIED BUILDINGS WILL OCCUR.
11. ANY DISCREPANCIES OR CONFLICTS WHICH BECOME APPARENT BEFORE OR DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER PRIOR TO CONSTRUCTION SO THAT CLARIFICATION OR REDESIGN MAY OCCUR.

DEMOLITION KEY NOTES

1. SAWCUT AND REMOVE CONCRETE/ASPHALT PAVEMENT.
2. REMOVE GROUND LIGHT AND FOUNDATION
3. REMOVE TREE AND ROOT BALL
4. REMOVE 6" PVC SANITARY LATERAL AND PLUG AND SEAL AT MANHOLE
5. REMOVE 8" PVC SANITARY MAIN. COORDINATE LINE REPLACEMENT FOR SEWER SERVICE INTERRUPTION
6. REMOVE CONCRETE BLOCK SEAT WALL.
7. REMOVE AND RELOCATE WATER MAIN (SEE UTILITY PLAN) COORDINATE LINE RPLACEMENT FOR WATER SERVICE INTERRUPTION
8. REMOVE AND RELOCATE GAS MAIN. COORDINATE WITH UTILITY COMPANY. (SEE UTILITY PLAN)
9. REMOVE AND RELOCATE BURIED ELECTRIC. COORDINATE WITH UTILITY COMPANY. (SEE UTILITY PLAN)
10. REMOVE LIGHT POLE AND REINSTALL AFTER UTILITIES ARE RE-ROUTED. (SEE ELECTRICAL PLAN)
11. REMOVE STORM STRUCTURE AND PIPING
12. REMOVE LIGHT BOLLARD AND FOUNDATION. LIGHT BOLLARD TO BE RETURNED TO OWNER. COORDINATE STORAGE LOCATION.
13. REMOVE BENCH AND STORE FOR REUSE. (SEE SITE PLAN FOR NEW LOCATION)
14. REMOVE IRRIGATION LINES AND CONTROLS. COORDINATE RECONNECTION WITH NEW PLAN.

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CAUTION

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SITE DESIGN
OWNERS REPRESENTATION

EXISTING CONDITIONS AND DEMOLITION PLAN
WESTFIELD HIGH SCHOOL ADDITION
WESTFIELD WASHINGTON SCHOOLS
322 WEST MAIN STREET
WESTFIELD, IN 46074

CERTIFIED BY:

DAVID A. LASH
REGISTERED
PE 10002108
STATE OF INDIANA
PROFESSIONAL ENGINEER

Date 01-05-09

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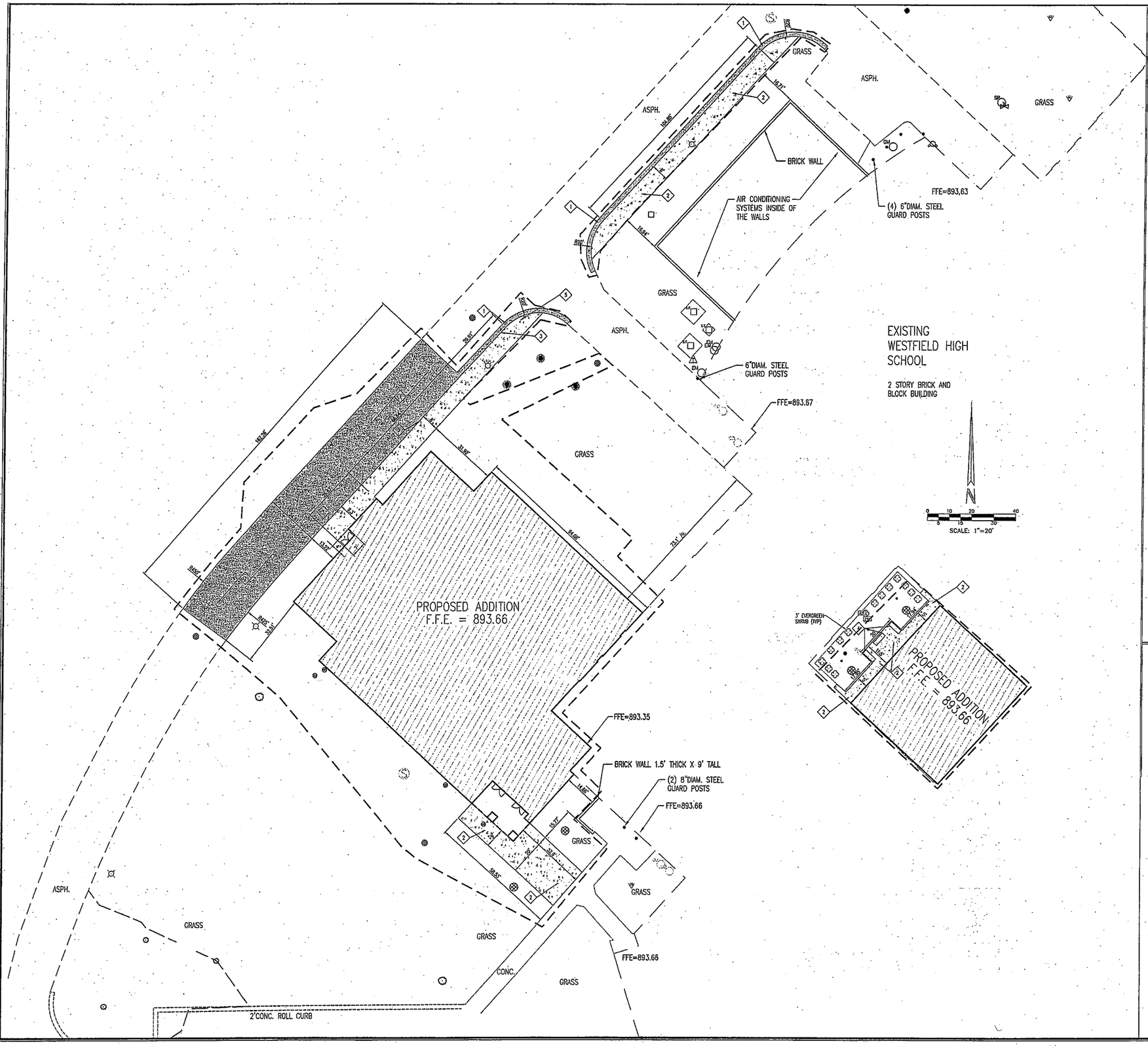

SITE PLAN LEGEND

PROPOSED CONSTRUCTION

BOUNDARY LINE
BUILDING SETBACK LINE
EASEMENT LINE
RIGHT-OF-WAY
CENTERLINE
FENCE
GUARD RAIL

SITE WORK GENERAL NOTES AND SPECIFICATIONS

NOTICES AND PERMITS

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING, OR VERIFYING, THAT ALL PERMITS AND APPROVALS ARE OBTAINED FROM THE RESPECTIVE CITY, COUNTY AND STATE AGENCIES PRIOR TO STARTING CONSTRUCTION.
2. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES IN THE VICINITY OF THE CONSTRUCTION AREA PRIOR TO STARTING CONSTRUCTION.
3. IT SHALL BE THE CONTRACTORS RESPONSIBILITY FOR NOTIFICATION AND COORDINATION OF ALL CONSTRUCTION WITH RESPECTIVE UTILITY COMPANIES.
4. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER AND CONTRACTOR TO MAINTAIN QUALITY CONTROL THROUGHOUT THE PROJECT. FAILURE TO DO SO MAY RESULT IN REVISIAL AND REPLACEMENT OF THE DEFECTIVE WORK.
5. IT IS ESSENTIAL THAT THE WORK TO BE DONE IN CONJUNCTION WITH THIS PROJECT SHALL BE INSTALLED ACCORDING TO THESE SPECIFICATIONS. THE ENGINEER WILL BE REQUIRED TO CERTIFY TO CERTAIN PORTIONS OF THIS PROJECT UPON COMPLETION. THEREFORE, IT IS NECESSARY TO OBTAIN APPROVAL AND ACCEPTANCE BY THE CITY THAT CONSTRUCTION WAS DONE IN COMPLIANCE WITH THESE PLANS AND SPECIFICATIONS.
6. ALL QUANTITIES GIVEN ON THE PRINTS, VERBALLY OR IN THE SCOPE OF WORK SECTION ARE ESTIMATES AND SHALL BE CONFIRMED BY THE BIDDING CONTRACTOR.
7. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS FOR EXCAVATIONS. FINAL RULE 29 CFR PART 1926, SUBPART "P" APPLIES TO ALL EXCAVATIONS EXCEEDING FIVE (5) FEET IN DEPTH.
8. EXCAVATIONS EXCEEDING TWENTY (20) FEET IN DEPTH REQUIRE THE DESIGN OF A TRENCH SAFETY SYSTEM BY A REGISTERED PROFESSIONAL ENGINEER.

SITE PLAN NOTES

1. ALL RADII AND STREET DIMENSIONS SHALL BE MEASURED TO BACK OF CURB OR FACE OF COMBINED WALK AND CURB. ALL DIMENSIONS TO THE BUILDING ARE TO THE OUTSIDE OF BUILDING FOUNDATION WALL.
2. ALL PAVEMENT AND/OR CURB RADII TO BE FIVE (5) FOOT UNLESS OTHERWISE NOTED.
3. BEARINGS, DIMENSIONS AND EASEMENTS ARE SHOWN FOR REFERENCE ONLY. SEE RECORD SURVEYS AND PLATS FOR EXACT INFORMATION.
4. SEE ARCHITECTURAL PLANS FOR DETAILS OF BUILDINGS AND BUILDING DIMENSIONS.
5. ALL PARKING AREAS TO BE CURBED WITH CHAIRBACK CURB OR INTEGRAL CURB AND WALK AS SHOWN.
6. TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO CONFORM TO APPLICABLE LOCAL STANDARDS.
7. SEE UTILITY PLAN FOR SANITARY AND STORM STRUCTURE LOCATIONS.
8. ANY DISCREPANCIES OR CONFLICTS WHICH BECOME APPARENT BEFORE OR DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER PRIOR TO CONSTRUCTION SO THAT CLARIFICATION OR REDESIGN MAY OCCUR.

KEYNOTE LEGEND

1. HEAVY DUTY ASPHALT PAVEMENT (SEE DETAIL PV-35A ON SHEET C202)
2. CONCRETE SIDEWALK (SEE DETAIL PV-16 ON SHEET C202)
3. COMBINED WALK AND CURB (SEE DETAIL PV-5 ON SHEET C202)
4. RELOCATED METAL BENCHES
5. ACCESSIBLE CURB RAMP (SEE DETAIL PV-100 ON SHEET C202)

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Revisions			
Mark	Date	Description	

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SITE PLAN
WESTFIELD HIGH SCHOOL ADDITION
WESTFIELD WASHINGTON SCHOOLS
322 WEST MAIN STREET
WESTFIELD, IN 46074

CERTIFIED BY:

DALTO A. LACH
REGISTERED
PE 10000109
STATE OF INDIANA
PROFESSIONAL ENGINEER

Date: 01-05-09

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DESIGN

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Last Updated: Mon,5 Jan 2009
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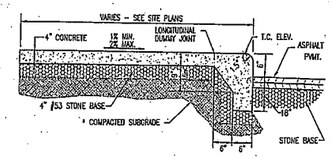
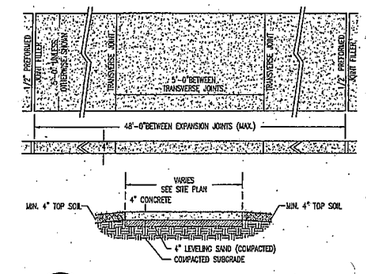


* COMPACTED SUBGRADE – THE UPPER 6" SHALL COMPLY WITH THE DENSITY REQUIREMENTS OF THE CONTRACT IMMEDIATELY PRIOR TO PLACING THE MATERIAL THEREON. ALL SOFT, YIELDING OR OTHER UNSUITABLE MATERIAL, WHICH CANNOT BE COMPACTED SATISFACTORILY, SHALL BE REMOVED. ALL ROCK ENCOUNTERED SHALL BE REMOVED OR BROKEN OFF AT LEAST 6" BELOW THE SUBGRADE SURFACE. ANY HOLES OR DEPRESSIONS RESULTING FROM THE REMOVAL OF UNSUITABLE MATERIAL, SHALL BE FILLED WITH SATISFACTORY MATERIAL AND COMPACTED TO CONFORM WITH THE SURROUNDING SUBGRADE SURFACE.

PV-6 COMBINED WALK AND CURB DETAIL

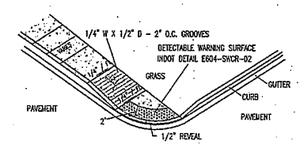
NO SCALE



PV-16 SIDEWALK DETAIL

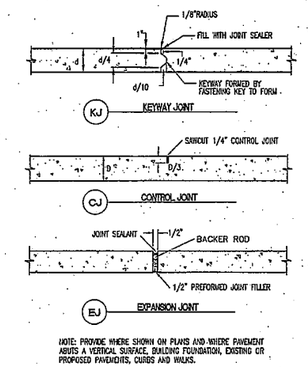
NO SCALE

NOTES:
1. CURB RAMPS SLOPE SHALL BE 1:12
2. FLARED SIDE SLOPE SHALL BE 1:10
3. SURFACE SHALL CONTRAST VISUALLY WITH ADJOINING SURFACE



PV-10B A.D.A. CURB RAMP DETAIL

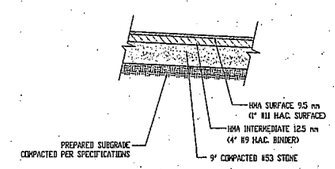
NO SCALE



NOTE: PROVIDE WHERE SHOWN ON PLANS AND WHERE PAVEMENT ABUTS A VERTICAL SURFACE, BUILDING FOUNDATION, EXISTING OR PROPOSED PAVEMENTS, CURBS AND WALKS.

PV-26 CONCRETE JOINT DETAILS

NO SCALE



PV-36A ASPHALT PAVEMENT SECTIONS

NO SCALE

Revisions		
Mark	Date	Description
-	-	-
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• LAND SURVEYING
• LEED
• OWNERS REPRESENTATION

SITE DETAILS

WESTFIELD HIGH SCHOOL ADDITION

WESTFIELD WASHINGTON SCHOOLS

332 WEST MAIN STREET
WESTFIELD, IN 46074

CERTIFIED BY:

DAVID A. LACH REGISTERED PE-10000628 STATE OF INDIANA PROFESSIONAL ENGINEER

Date: 01-05-09

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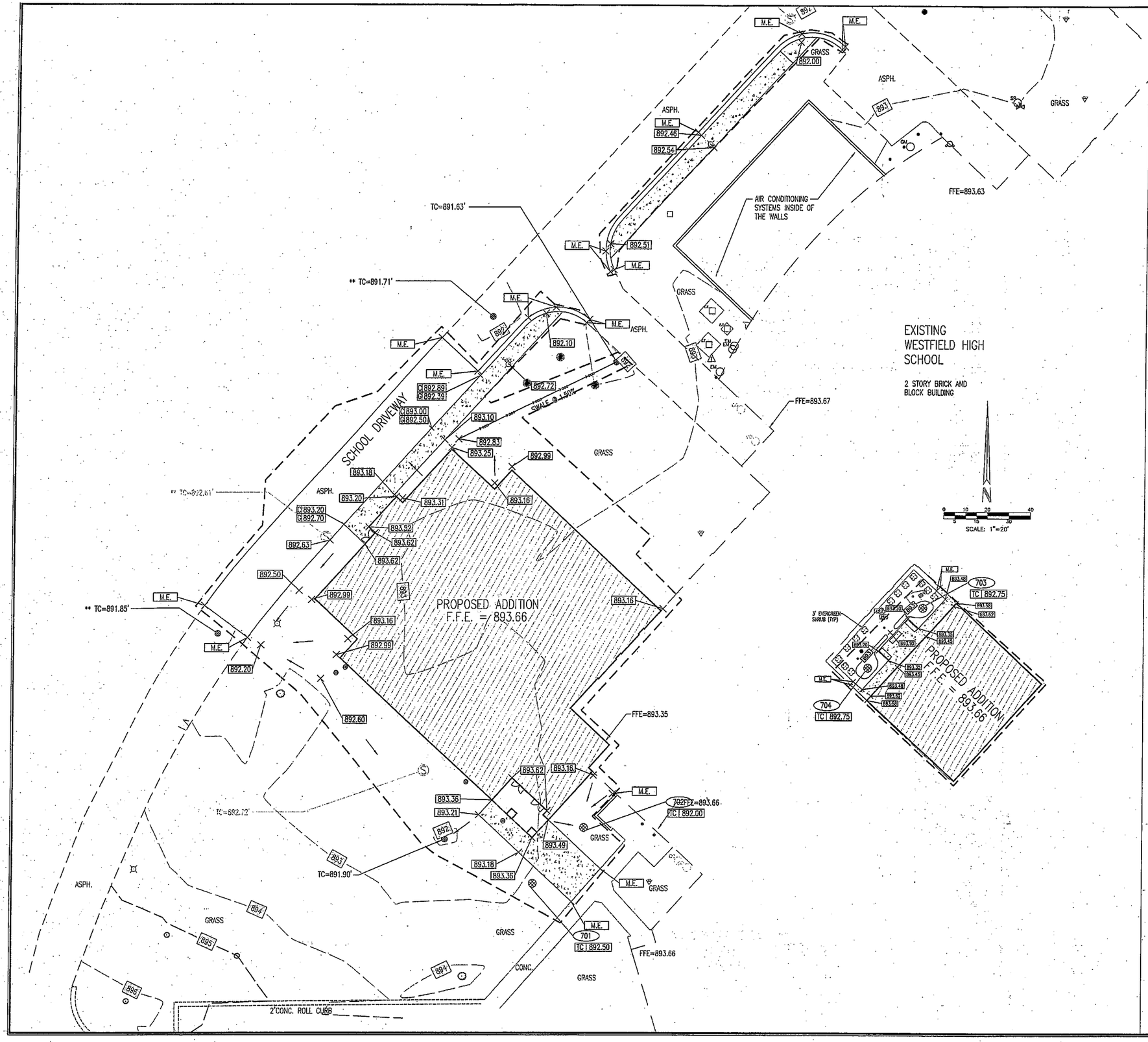

GRADING PLAN LEGEND

PROPOSED CONSTRUCTION

PROPOSED PAVEMENT SPOT GRADE	800.00
PROPOSED GROUND SPOT GRADE	799.50
MATCH EXISTING GRADE	M.E.
PROPOSED GUTTER GRADE	GT 799.50
PROPOSED TOP OF CURB GRADE / PROPOSED GUTTER GRADE	C 800.00 / G 799.50
PROPOSED TOP OF CASTING	TC 800.50
PROPOSED INVERT ELEVATION	IE 800.00
PROPOSED 1 FT. CONTOUR	800
PROPOSED INDEX CONTOUR	800
PROPOSED SWALE	SWALE @ 1.0%
PROPOSED DRAINAGE FLOW ARROW (DIRECTION)	

GRADING NOTES:

1. ALL GRADES AT BOUNDARY SHALL MEET EXISTING GRADES.
2. UPON COMPLETION OF MASS EARTHWORK, TOPSOIL SHALL BE SPREAD TO A DEPTH OF FOUR TO SIX (4 TO 6) INCHES IN LAWN AREAS TO BE SEEDED. EXCESS TOPSOIL SHALL BE HAULED OFF SITE AT CONTRACTOR EXPENSE AND/OR MOUNDED IN AN ON-SITE AREA TO BE DETERMINED BY WESTFIELD WASHINGTON SCHOOLS.
3. EXISTING UTILITY LOCATIONS ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY HORIZONTAL AND VERTICAL LOCATIONS PRIOR TO MAJOR EARTHWORK, WITHIN THE PROPOSED CONSTRUCTION LIMITS.
4. BUILDING PAD AREAS AND STREETS DESIGNATED FOR FILL SHALL BE CONSTRUCTED OF SUITABLE FILL MATERIAL AND COMPACTED PER SPECIFICATIONS. ALL FILL AREAS FOR BUILDING AREAS AND STREETS ARE TO BE STRIPPED OF TOPSOIL PRIOR TO PLACEMENT OF FILL.
5. CONTRACTOR SHALL PRESERVE EXISTING TREES WHEREVER POSSIBLE. OWNER AND OWNER'S REPRESENTATIVE SHALL BE CONSULTED FOR CLEARING LIMITS. CLEARING LIMITS SHALL CONSIST OF ALL TREES WITHIN STREET AREAS, UTILITY INSTALLATION LIMITS AND CUT FILL AREAS.
6. TOP OF CASTING (TC) TO SHALL INDICATE THE ELEVATION THAT WATER WOULD ENTER A STRUCTURE. WHEN A STRUCTURE IS NOT A CURB INLET, TC SHALL INDICATE TOP OF CURB WHEN STRUCTURE IS A CURB INLET.
7. ANY DISCREPANCIES OR CONFLICTS WHICH BECOME APPARENT BEFORE OR DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER PRIOR TO CONSTRUCTION SO THAT CLARIFICATION OR REDESIGN MAY OCCUR.
8. CONTOURS SHOWN FOR REFERENCE TO MEET JURISDICTIONAL REQUIREMENTS. CONTRACTOR SHOULD GRADE SITE PER SPOT GRADE ELEVATIONS.

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CAUTION:
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Revisions		
No.	Date	Description

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GRADING PLAN
WESTFIELD HIGH SCHOOL ADDITION
WESTFIELD WASHINGTON SCHOOLS
322 WEST MAIN STREET
WESTFIELD, IN 46074

CERTIFIED BY:

DAVID A. LACH
REGISTERED
PE 10000126
STATE OF INDIANA
PROFESSIONAL ENGINEER

Date 01-05-09

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—
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Scale: 0' Scale: 1" = 20'
Sheet C301
Date 01-05-09
Project Number 040338-20201

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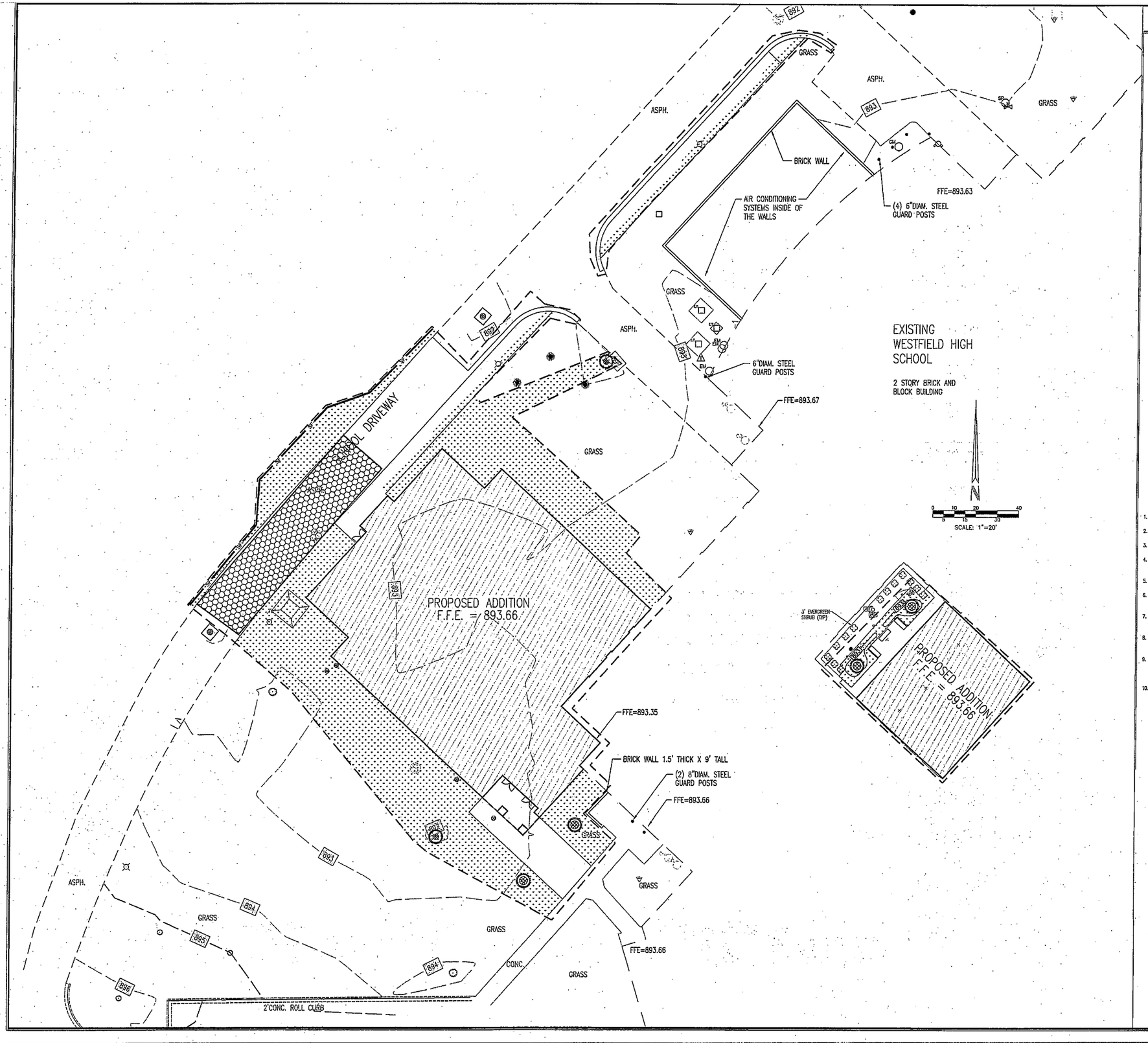

LEGEND
PROPOSED EROSION CONTROL

SYMBOL/ HATCH/LINETYPE	DETAIL NO.	DESCRIPTION
	EC-16A	CONCRETE END SECTION WITH RIP-RAP DETAIL (UPPER INVERT)
	EC-37	CURB INLET PROTECTION
	EC-36	INLET PROTECTION
	EC-8A	YARD GRATE SILT BARRIER
	EC-3	YARD INLET GRATE BARRIER
	EC-16	CONCRETE END SECTION WITH RIP-RAP DETAIL (LOWER INVERT)
RIP RAP d50=6" "AREA" Sq YARDS	EC-29	ROCK CHECK DAM BARRIERS (TYP. 200' O.C.)
	EC-5	SWALE SEDIMENT BARRIERS (TYP. 200' O.C.)
		PERMANENT SEEDING WITH EROSION CONTROL BLANKET - SC150
		PERMANENT SEEDING WITH MULCH
		TEMPORARY SEEDING WITH MULCH
	EC-30	TEMPORARY CONSTRUCTION ENTRANCE 12 INCHES OF #2 STONE (24'W x 100'L) Minimum
	EC-33	CONCRETE WASHOUT W/SIGN
SF	EC-2	SILT FENCE BARRIER
TP TP	EC-15 EC-15A	FENCING FOR TREE PRESERVATION
		CONSTRUCTION LIMITS / FENCING

EROSION CONTROL NOTES:

1. SEE SHEET C402 FOR SOILS MAP AND SOIL CHARACTERISTICS.
2. SEE SHEET C402 FOR EROSION CONTROL DETAILS.
3. SILT FENCE BARRIER TO BE INSTALLED PRIOR TO CONSTRUCTION.
4. EROSION CONTROL MEASURES TO BE MAINTAINED THROUGHOUT THE ENTIRE CONSTRUCTION PROCESS.
5. STORM WATER DISCHARGE WILL NOT ENTER THE GROUNDWATER FOR THIS PROJECT.
6. SEE EROSION CONTROL SPECIFICATIONS FOR ALL EROSION CONTROL MEASURES SCHEDULES AND SEQUENCES.
7. CONTRACTOR TO PROVIDE A STABLE TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT CONDITION FROM THE CONSTRUCTION SITE TO KEEP MUD AND SEDIMENT OFF PUBLIC ROADS.
8. EROSION CONTROL MAINTENANCE – SITE TO BE INSPECTED AT LEAST ONCE A WEEK AND MAKE REPAIRS IMMEDIATELY AFTER PERIODS OF RAINFALL.
9. CONTRACTOR TO PROVIDE THE COUNTY SOIL AND WATER CONSERVATION DISTRICT(S) WITH A NARRATIVE DESCRIBING THE CONSTRUCTION SEQUENCE, INCLUDING START DATES FOR EACH LAND DISTURBING ACTIVITY.
10. ANY DISCREPANCIES OR CONFLICTS WHICH BECOME APPARENT BEFORE OR DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER PRIOR TO CONSTRUCTION SO THAT CLARIFICATION OR REDESIGN MAY OCCUR.

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Revisions		
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EROSION CONTROL PLAN
WESTFIELD HIGH SCHOOL ADDITION
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CERTIFIED BY:

DAVID A. LACH
REGISTERED
PE 10000108
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Date 01-05-09
Project Number 040338-20201

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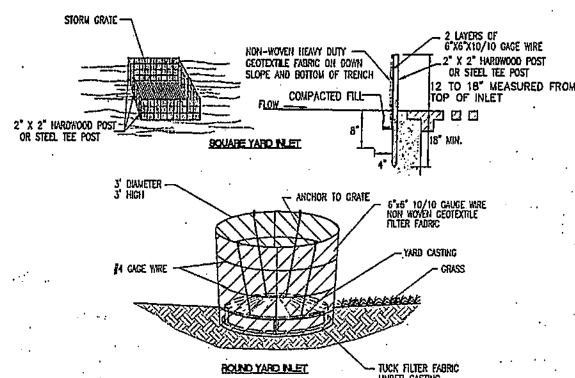


Installation:

1. Dig an eight-inch deep, four-inch wide trench around the perimeter of the inlet.
2. If using pre-assembled geotextile fabric and posts, drive the posts into the soil, tightly stretching the geotextile fabric between posts as each is driven. (Posts must be placed on the inlet side of the anchor trench with the geotextile fabric on the side of the trench farthest from the inlet.)

   Note: If assembling the geotextile fabric and posts on-site, drive the posts into the soil and then secure the geotextile fabric to the posts by placing a piece of lathe over the fabric and fastening it to the post (stretching the fabric between posts as it is fastened).

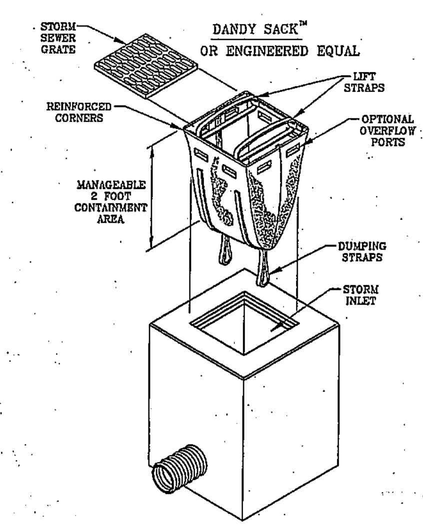
3. Use the wrap join method when joining posts
4. Place the bottom 12 inches of geotextile fabric into the eight-inch deep trench, laying the remaining four inches in the bottom of the trench and extending away from the inlet.
5. Backfill the trench with soil material and compact it in place.
6. Brace the posts by nailing braces into each corner post or utilize rigid panels to support fabric.

Maintenance:

- Inspect daily.
- Inspect geotextile fabric and make needed repairs immediately.
- Remove sediment from pool area to provide storage for the next storm event. Avoid damaging or undercutting fabric during sediment removal.
- When contributing drainage area has been stabilized, remove sediment, properly dispose of all construction material, grade area to the elevation of the storm drain inlet top, then stabilize immediately.

EC-3 GEOTEXTILE FRABIC YARD DROP INLET PROTECTION

NO SCALE



NOTE: THE DANDY SACK™ WILL BE MANUFACTURED IN THE U.S.A. FROM A WOVEN MONOFILAMENT FABRIC.

INSTALLATION AND MAINTENANCE GUIDELINES

INSTILLATION:

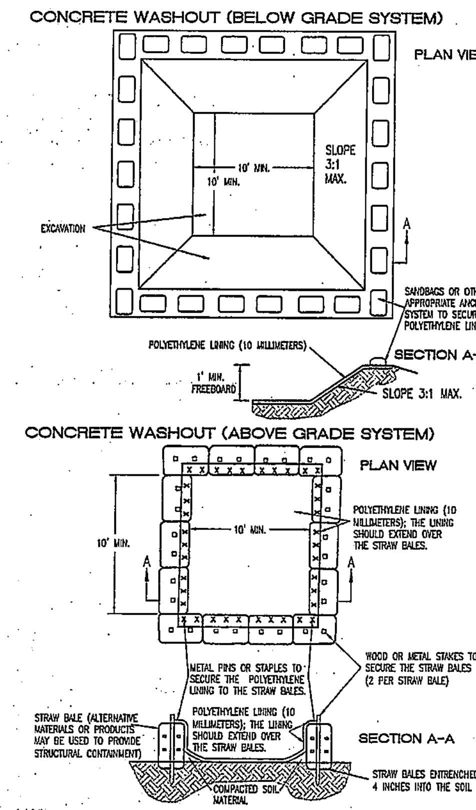
- REMOVE THE GRATE FROM THE CATCH BASIN.
- IF USING OPTIONAL OIL ABSORBENTS; PLACE ABSORBENT PILLOW IN UNIT.
- STAND THE GRATE ON END. MOVE THE TOP LIFTING STRAPS OUT OF THE WAY AND PLACE THE GRATE INTO THE DANDY SACK SO THAT THE GRATE IS BELOW THE TOP STRAPS AND ABOVE THE LOWER STRAPS.
- HOLDING THE LIFTING DEVICES, INSERT THE GRATE INTO THE INLET.

MAINTENANCE:

1. INSPECT DAILY
2. REMOVE ALL ACCUMULATED SEDIMENT AFTER EACH STORM EVENT. DISPOSE OF SEDIMENT IN AN AREA WHERE IT WILL NOT REENTER THE PAVED AREA OR STORM DRAINS. TO EMPTY UNIT, LIFT THE UNIT OUT OF THE INLET BY USING THE LIFTING STRAPS AND REMOVE THE GRATE. IF USING OPTIONAL OIL ABSORBENTS; REPLACE ABSORBENT WHEN NEAR SATURATION. CONTACT: 708-867-8446.
3. WHEN CONTRIBUTING DRAINAGE ARE HAS BEEN STABILIZED REMOVE INLET PROTECTION

EC-36 INSERT (BAG) INLET PROTECTION

NO SCALE



Installation:

Prefabricated Washout Systems/Containers

- Install and locate according to the manufacturer's recommendations.

Designed and Installed Systems

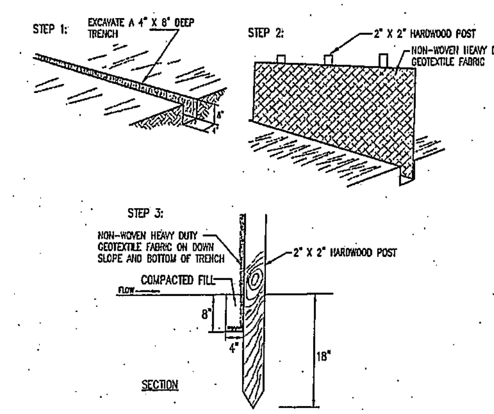
- Utilize and follow the design in the storm water pollution prevention plan to install the system.
- Dependent upon the type of system, either excavate the pit or install the containment system.
- A base shall be constructed and prepared that is free of rocks and other debris that may cause tears or punctures in the polyethylene lining.
- Install the polyethylene lining. For excavated systems, the lining should extend over the entire excavation. The lining for bermed systems should be installed over the pooling area with enough material to extend the lining over the berm or containment system. The lining should be secured with pins, staples, or other fasteners.
- Place flags, safety fencing, or equivalent to provide a barrier to construction equipment and other traffic.
- Place a non-collapsing, non-water holding cover over the washout facility prior to a predicted rainfall event to prevent accumulation of water and possible overflow of the system (optional).
- Install signage that identifies concrete washout areas.
- Post signs directing contractors and suppliers to designated locations.
- Where necessary, provide stable ingress and egress or alternative approach pad for concrete washout systems.

Maintenance:

- Inspect daily and after each storm event.
- Inspect the integrity of the overall structure including, where applicable, the containment system.
- Inspect the system for leaks, spills, and tracking of soil by equipment.
- Inspect the polyethylene lining for failure, including tears and punctures.
- Once concrete wastes harden, remove and dispose of the material.
- Excess concrete should be removed when the washout system reaches 50 percent of the design capacity. Use of the system should be discontinued until appropriate measures can be initiated to clean the structure. Prefabricated systems should also utilize this criterion, unless the manufacturer has alternate specifications.
- Upon removal of the solids, inspect the structure. Repair the structure as needed or construct a new system.
- Dispose of all concrete in a legal manner. Reuse the material on site, recycle, or haul the material to an approved construction/demolition landfill site. Recycling of material is encouraged. The waste material can be used for multiple applications including but not limited to roadbeds and building. The availability for recycling should be checked locally.
- The plastic liner should be replaced after every cleaning; the removal of material will usually damage the lining.
- The concrete washout system should be repaired or enlarged as necessary to maintain capacity for concrete waste.
- Concrete washout systems are designed to promote evaporation. However, if the liquids do not evaporate and the system is near capacity it may be necessary to vacuum or remove the liquids and dispose of them in an acceptable method. Disposal may be allowed at the local sanitary sewer authority provided their National Pollutant Discharge Elimination System permits allow for acceptance of this material. Another option would be to utilize a secondary containment system or basin for further dewatering.
- Prefabricated units are often pumped and the company supplying the unit provides this service.
- Inspect construction activities on a regular basis to ensure suppliers, contractors, and others are utilizing designated washout areas. If concrete waste is being disposed of improperly, identify the violators and take appropriate action.
- When concrete washout systems are no longer required, the concrete washout systems shall be closed. Dispose of all hardened concrete and other materials used to construct the system.
- Holes, depressions and other land disturbances associated with the system should be backfilled, graded, and stabilized.

EC-33 CONCRETE WASHOUT DETAIL

NO SCALE



Installation:

1. Lay out the location of the fence so that it is parallel to the contour of the slope and at least 10 feet beyond the toe of the slope to provide a sediment storage area. Turn the ends of the fence up slope such that the point of contact between the ground and the bottom of the fence end terminates at a higher elevation than the top of the fence at its lowest point.
2. Excavate an eight-inch deep by four-inch wide trench along the entire length of the fence line. Installation by plowing is also acceptable.
3. Install the silt fence with the filter fabric located on the up-slope side of the excavated trench and the support posts on the down-slope side of the trench.
4. Drive the support posts at least 18 inches into the ground, tightly stretching the fabric between the posts as each is driven into the soil. A minimum of 12 inches of the filter fabric should extend into the trench.
5. Lay the lower four inches of filter fabric on the bottom of the trench and extend it toward the up-slope side of the trench.
6. Backfill the trench with soil material and compact it in place.

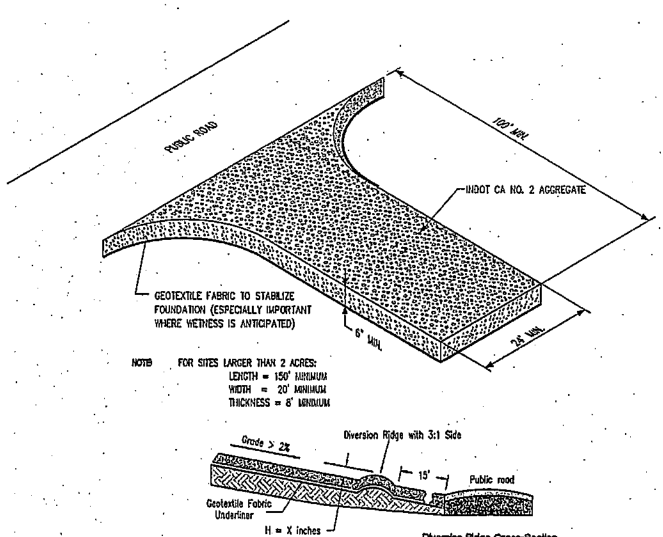
Note: If the silt fence is being constructed on-site, attach the filter fabric to the support posts and attach wooden laths to secure the fabric to the posts. Allow for at least 12 inches of fabric below ground level. Complete the silt fence installation, following steps 1 through 6 above.

Maintenance:

- Inspect within 24 hours of a rain event and at least once every seven calendar days.
- If fence fabric tears, starts to decompose, or in any way becomes ineffective, replace the affected portion immediately. **Note: All repairs should meet specifications as outlined within this measure.**
- Remove deposited sediment when it is causing the filter fabric to bulge or when it reaches one-half the height of the fence at its lowest point. When contributing drainage area has been stabilized, remove the fence and sediment deposits, grade the site to blend with the surrounding area, and stabilize.

EC-2 SILT FENCE BARRIER INSTALLATION

NO SCALE



INSTALLATION NOTES:

1. Remove all vegetation and other objectionable material from the foundation area.
2. Grade foundation and crown for positive drainage. If the slope of the construction entrance is toward a public road and exceeds two percent, construct an eight inch high diversion ridge with a ratio of 3-to-1 side slopes across the foundation area about 15 feet from the entrance to divert runoff away from the road.
3. Install a culvert pipe under the pad if needed to maintain proper public road drainage.
4. If wet conditions are anticipated, place geotextile fabric on the graded foundation to improve stability.
5. Place aggregate (INDOT CA No. 2) to the dimensions and grade shown in the construction plans, leaving the surface smooth and sloped for drainage.
6. Top-dress the first 50 feet adjacent to the public roadway with two to three inches of washed aggregate (INDOT CA NO. 53) [optional, used primarily where the purposed of the pad is keep soil from adhering to vehicle tires].
7. Where possible, divert all storm water runoff and drainage from the ingress/egress pad to a sediment trap or basin.

MAINTENANCE NOTES:

- Inspect daily.
- Reshape pad as needed for drainage and runoff control.
- Top dress with clean aggregate as needed.
- Immediately remove mud and sediment tracked or washed onto public roads.
- Flushing should only be used if the water can be conveyed into a sediment trap or basin.

EC-30 TEMPORARY CONSTRUCTION INGRESS / EGRESS PAD

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EROSION CONTROL DETAILS

WESTFIELD HIGH SCHOOL ADDITION

WESTFIELD WASHINGTON SCHOOLS

322 WEST MAIN STREET
WESTFIELD, IN 46074

CERTIFIED BY: David A. Lach

DAVID A. LACH REGISTERED PE 10000126 STATE OF INDIANA PROFESSIONAL ENGINEER

Date 01-05-09

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Quality Assurance: —

Scale: 0 Scale: 1" = 20'

Sheet C402

Date 01-05-09

Project Number 040338-20201

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CONSTRUCTION/STORMWATER POLLUTION PREVENTION PLAN

ASSESSMENT OF CONSTRUCTION PLAN ELEMENTS (SECTION A)

A1 Plan Index Showing Locations Of Required Items:
See Cover Sheet

A2 11x24 Plat Showing Site, Buildings, Parking Lots, Streets:
N/A

A3 Narrative Describing Project Nature And Purpose:
BUILDING ADDITIONS TO THE EXISTING HIGH SCHOOL

A4 Vicinity Map Showing Project Location:
See Sheet CS

A5 Legal Description Of The Project Site:
Longitude 86° 08' 00" W   Latitude 40° 02' 45" N

A6 Location Of All Lots And Proposed Site Improvements:
See Sheet C201

A7 Hydrologic Unit Code-14 Digit:
05120201090030 – Cool Creek

A8 Notation Of Any State Or Federal Water Quality Permits:
None.

A9 Specific Points Where Stormwater Discharge Will Leave The Site:
THROUGH THE EXISTING STORM SEWER SYSTEM.

See sheets C501 for the extents of The Stormwater Management Plan components.

A10 Location And Name Of All Wetlands, Lakes And Water Courses On And Adjacent To The Site:
N/A

A11 Identification Of All Receiving Waters:
N/A

A12 Identification Of Potential Discharge To Groundwater:
None

A13 100 Year Floodplains, Floodways, And Floodway Fringes:
None

A14 Pre-construction And Post Construction Estimate Of Peak Discharge:
The release rates from the site will remain the same. The existing pond has been sized to accommodate this improvement.

A15 Adjacent Land Use, Including Upstream Watershed:
South – Residential, West – US 31,
North – School, East – Residential

A16 Locations And Approximate Boundaries Of All Disturbed Areas:
See sheets C401

A17 Identification Of Existing Vegetative Cover:
See sheets C101

A18 Soils Map Including Descriptions And Limitations:
See this sheet for soils descriptions and limitations

A19 Location, Size And Dimensions Of Proposed Stormwater Systems:
See sheet C501

A20 Plan For Any Off-site Construction Activities Associated With This Project:
None.

A21 Locations Of Proposed Soil Stockpiles, Borrow And/Or Disposal Areas:
None. Topsoil will be hauled off.

A22 Existing Site Topography At An Interval Appropriate To Show Detailed Drainage Patterns:
See sheets C101

A23 Proposed Final Topography At An Interval Appropriate To Show Detailed Drainage Patterns:
See sheets C301

ASSESSMENT OF STORMWATER POLLUTION PREVENTION PLAN-CONSTRUCTION COMPONENT (SECTION B)

B1 Description Of Potential Pollutant Sources Associated With Construction Activities:
The primary pollutant associated with construction activities is sediment. additional pollutants may be generated by construction vehicle operation and maintenance (e.g. fueling, changing hydraulic fluids and oils); concrete washout; improper storage of construction materials; improper disposal of construction trash and debris; improper application or over application of fertilizers and pesticides; and improper storage, application, and disposal of soluble materials or other materials that may be mobilized by storm water runoff. equipment and fuel will be stored in a central location and the contractor shall institute methods and procedures to prevent discharge of pollutants.

B2 Sequence Describing Stormwater Quality Measure Implementation Relative To Land Disturbing Activities:
See erosion and sediment control sequences and implementation on sheets C401–C403

B3 Stable Construction Entrance Locations And Specifications:
See sheets C401 for location. See sheet C402 for details.

B4 Sediment Control Measures For Sheet Flow Areas:
Preliminary grading and stabilization must be completed to ensure adequate drainage to the temporary or permanent runoff conveyance facilities. Silt fencing must also be implemented prior to any construction activity to ensure silt collection. stabilize disturbed areas directly after earth disturbing activities, temporary seed areas scheduled to be idle for up to one year, permanently seed all areas that are at final grade, phase projects where each subsequent phase will not begin for 8 months or more, and areas to be idle for more than one year. Erosion control measures to be installed in Sheet Flow Area, see sheet C402 for details as well as installation and maintenance procedures. See sheet C403 for seeding guidelines.

B5 Sediment Control Measures For Concentrated Flow Areas:
Adequate erosion control measures must be installed within these areas prior to opening for runoff acceptance. if it is a swale or pond side slope, erosion control blanket should be installed prior to opening, the emergency spillways will contain riprap to control intensely channeled flows from runoff in an emergency. Stabilize disturbed areas directly after earth disturbing activities, temporary seed areas scheduled to be idle for up to one year, permanently seed all areas that are at final grade, phase projects where each subsequent phase will not begin for 8 months or more, and areas to be idle for more than one year. See sheets C401 for erosion control measures to be installed in concentrated flow areas. See sheet C402 for details as well as installation and maintenance procedure.

B6 Sediment Control Measures For Storm Sewer Inlets Protection:
See Sheets C401 for location & type, and C402 for details.

B7 Runoff Control Measures:
See sheet C401

B8 Stormwater Outlet Protection Specifications:
N/A

B9 Grade Stabilization Structure Locations And Specifications:
See sheet C401

B10 Erosion And Sediment Control Provision For Stream / Channel Crossings:
N/A

B11 Sediment Control Associated With Dewatering And Directional Boring Operation:
N/A

B12 Location, Dimensions, Specifications And Construction Details For Each Stormwater Quality Measure:
See sheet C401 and associated erosion control details on sheet C402

B13 Temporary Surface Stabilization Methods Appropriate For Each Season:
See "GENERAL SEEDING & SURFACE STABILIZING PROCEDURES" on this sheet.

B14 Permanent Surface Stabilization Specifications:
See "GENERAL SEEDING & SURFACE STABILIZING PROCEDURES" on this sheet.

B15 Material Handling And Spill Prevention:
Expected construction materials on site may include vehicle lubricants, oils, vehicular fuels, concrete wash-out, acids, curing compounds, paints, mulch, pesticides, herbicides, fertilizer, and trash. Any toxic waste materials are to be disposed of according to local and state laws.

Small spills and leaks of these materials onto non-paved areas will be shoveled into containers or dumpsters for proper disposal.

Fueling trucks will be equipped with spill prevention kits for smaller fuel spills. all vehicular maintenance shall be performed in the same designated area throughout the construction time frame. If possible, vehicular maintenance shall be done off-site at facilities that are designed to handle any material spillage. This shall include fueling of vehicles whenever possible. The Westfield Fire Department (317)896-2704 or 911, Indiana Department of Environmental Management, Office of Emergency Response (800)-233-7745, shall be notified immediately for larger spills or leaks. The National Response Center (800)-424-8802 shall be notified and provided with the following information: Time of Spill, Location of Spill, Material, Source of Spill, Approximate Volume and Length of Spillage, Weather Conditions at Time of Spill, Personal Present at Time of Spill, and All Action Taken for Post Spill Cleanup.

Contractor shall contact a waste recovery agency immediately for removal of contaminates and coordination of monitoring the site during cleanup until all of the hazardous material has been removed. Contractor shall cooperate with idem during and after the spill to insure all required cleanup and filing reports are properly submitted.

The Developer shall be continually informed of any contamination concerns occurring on the site. The construction manager shall keep on site a list of qualified contractors for spill remediation. All site personnel, including maintenance employees, shall be made aware of proper spill prevention and remediation techniques. All materials used to absorb spills shall be properly disposed of in an approved manor with local and state laws. do not flush spill materials with water unless directed to do so by a governing agency. It is important that all manufacturer's Instructions be followed when using or applying all fertilizers, herbicides, and pesticides.

B16 Monitoring And Maintenance Guidelines For Each Proposed Storm Water Quality Measure:
See sheet C402 for details containing maintenance requirements for each storm water quality measure.

B17 Erosion And Sediment Control Specifications For Individual Building Lots:
N/A

ASSESSMENT OF STORMWATER POLLUTION PREVENTION POST-CONSTRUCTION COMPONENT (SECTION C)

C1 Description Of Pollutants And Their Sources Associated With The Proposed Land Use:
Potential pollutant sources post construction include fertilizers, herbicides, pesticides and other lawn treatment applications along with assorted fuels, oils and liquids associated with vehicular traffic throughout the developed site. there are downstream water quality effects due to channeling discharges to a single point. This can result in bank erosion, down cutting of the channel bottom.

C2 Sequence Describing Stormwater Quality Measure Implementation:
The existing pond acts a post construction water quality bmp.

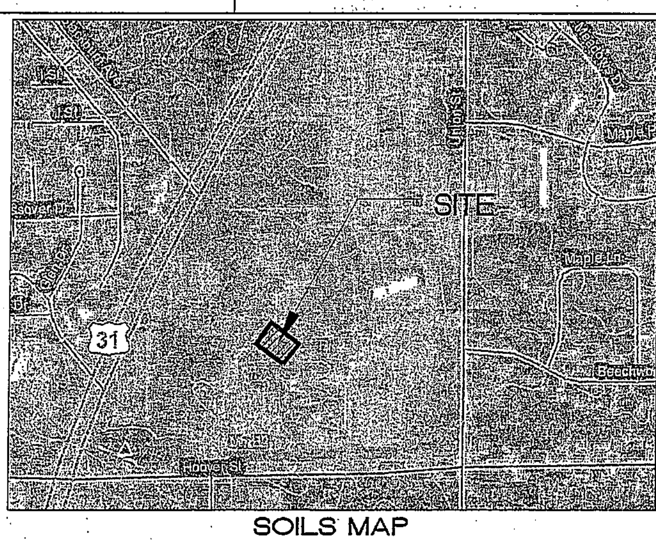
C3 Description Of Proposed Post Construction Stormwater Quality Measures:
N/A

C4 Location, Dimensions, Specifications, And Construction Details Of Each Stormwater Quality Measure:
N/A

C5 Description Of Maintenance Guidelines For Post Construction Stormwater Quality Measures:
N/A

EROSION AND SEDIMENT CONTROL SEQUENCE AND IMPLEMENTATION

1. Install temporary construction entrance off existing drive. (See C401)
2. Install silt fencing along property lines and along construction limits as shown on C401 (See detail on sheet C402). Dust shall be kept to a minimum by utilizing sprinkling, calcium chloride, vegetative cover, spray on adhesive or other approved methods.
3. Identify construction staging, concrete washout areas, material storage and topsoil stockpile areas. Each area shall be properly protected and delineated prior to construction.
4. The NOI and contact information for the person with onsite responsibilities must be posted.
5. Contact Indiana Underground Planned Protection Systems, Inc. ("Holey Moley") for underground Utility locations. (1-800-382-5544)
6. Before opening up the site, first evaluate, mark and protect important trees and associated root zones, unique areas to be preserved (i.e. wetlands), or existing vegetation suitable for use as filler strips (especially in perimeter areas).
7. First, strip and haul off any existing topsoil on-site.
8. Begin mass earthwork for building addition preliminary grading. See "General Seeding and Surface Stabilization Procedures" for temporary seeding guidelines on this sheet.
9. Repair any silt fencing if damaged. If silt fence is 1/3 height of fabric, remove silt and replace to original condition. See detail on Sheet C402.
10. Immediately after grading, apply surface stabilization practices on all graded areas, using permanent measures in accordance with the erosion control plan. However, if weather delays permanent stabilization, temporary seeding and/or mulching may be necessary as a provisional measure. Also stabilize (using temporary seeding/mulching or other suitable means) any disturbed area where active construction will not take place for 15 working days.
11. After construction and final grading, landscape and permanently stabilize all disturbed areas, including borrow and disposal areas. Also remove temporary runoff control structures and any unstable sediment around them, and stabilize those areas with permanent seeding and erosion control blanket if necessary.
12. Maintain all erosion and sediment control practices until all disturbed areas are permanently stabilized.



Hamilton County

Br - Brookston silt loam with surface depressions. Major factor affecting urban uses include surface water ponding, seasonal high water table, and severe internal wetness.

CrA - Crosby silt loam on 0 to 3 percent slopes. Major factors affecting urban uses include slight surface ponding, seasonal high water table, and moderate internal wetness.

SOILS MAP

SCALE: N/A

GENERAL SEEDING and SURFACE STABILIZATION PROCEDURES

(1) TEMPORARY SEEDING

Table 1. Temporary Seeding Specifications

Seed Species 1	Rate per Acre	Planting Depth	Optimum Dates 2
Wheat or Rye	150 lbs.	1 to 1-1/2 inches	Sept. 15 – Oct. 30
Spring Oats	100 lbs.	1 inch	March 1 – April 15
Annual Ryegrass	40 lbs.	1-1/4 inch	March 1 – May 1 Aug. 1 – Sept. 1
German Millet	40 lbs.	1 to 2 inches	May 1 – June 1
Sudangrass	35 lbs.	1 to 2 inches	May 1 – July 30
Buckwheat	60 lbs.	1 to 2 inches	April 15 – June 1
Corn (broadcast)	300 lbs.	1 to 2 inches	May 11 – Aug. 10
Sorghum	35 lbs.	1 to 2 inches	May 1 – July 15

1 Perennial species may be used as a temporary cover, especially if the area to be seeded will remain idle for more than one year (See Permanent Seeding).
2 Seeding done outside the optimum seeding dates increases the chances of seeding failure. Dates may be extended or shortened based on the location of the project site within the state.

Notes:
Mulch alone is an acceptable temporary cover and may be used in lieu of temporary seeding, provided that it is appropriately anchored.
A high potential for fertilizer, seed, and mulch to wash exists on steep banks, cuts, and in channels and areas of concentrated flow.

Application

Seedbed Preparation
1. Test soil to determine pH and nutrient levels.
2. Apply soil amendments as recommended by the soil test. If testing is not done, apply 400 to 600 pounds per acre of 12-12-12 analysis fertilizer, or equivalent.
3. Work the soil amendments into the upper two to four inches of the soil with a disk or rake operated across the slope.

Seeding
1. Select a seed species or an appropriate seed mixture and application rate from Table 1.
2. Apply seed uniformly with a drill or cultipacker seeder or by broadcasting. Plant or cover seed to the depth shown in Table 1.

Notes:
1. If drilling or broadcasting the seed, ensure good seed-to-soil contact by firming the seedbed with a roller or cultipacker after completing seeding operations. Daily seeding when the soil is moist is usually most effective.
2. If seeding is done with a hydroseeder, fertilizer and mulch can be applied with the seed in a slurry mixture.
3. Apply mulch (See Mulching and Compost Mulching Requirements Below) and anchor it in place.
4.

Maintenance
Inspect within 24 hours of each rain event and at least once every seven calendar days.
Check for erosion or movement of mulch and repair immediately.
Monitor for erosion damage and adequate cover (80 percent density); reseed, fertilize, and apply mulch where necessary.
If nitrogen deficiency is apparent, top-dress fall seeded wheat or rye seeding with 50 pounds per acre of nitrogen in February or March.

(2) PERMANENT SEEDING

Application

Site Preparation
1. Grade the site to achieve positive drainage.
2. Add topsoil or compost mulch to achieve needed depth for establishment of vegetation. (Compost material may be added to improve soil moisture holding capacity, soil friability, and nutrient availability.)

Seedbed Preparation
1. Test soil to determine pH and nutrient levels.
2. Apply soil amendments as recommended by the soil test and work into the upper two to four inches of soil. If testing is not done, apply 400 to 600 pounds per acre of 12-12-12 analysis fertilizer, or equivalent.
3. Till the soil to obtain a uniform seedbed. Use a disk or rake, operated across the slope, to work the soil amendments into the upper two to four inches of the soil.

Seeding
Optimum seeding dates are March 1 to May 10 and August 10 to September 30. Permanent seeding done between May 10 and August 10 may need to be irri\expndtw2 gated. Seeding outside or beyond optimum seeding dates is still possible with the understanding that reseeding or overseeding may be required if adequate surface cover is not achieved. Reseeding or overseeding can be easily accomplished if the soil surface remains well protected with mulch.
1. Select a seeding mixture and rate from Table 1 Permanent Seeding Recommendations. Select seed mixture based on site conditions, soil pH, intended land use, and expected level of maintenance.
2. Apply seed uniformly with a drill or cultipacker seeder or by broadcasting. Plant or cover the seed to a depth of one-fourth to one-half inch. If drilling or broadcasting the seed, ensure good seed-to-soil contact by firming the seedbed with a roller or cultipacker after completing seeding operations. (If seeding is done with a hydroseeder fertilizer and mulch can be applied with the seed in a slurry mixture.)
3. Mulch all seeded areas and use appropriate methods to anchor the mulch in place. Consider using erosion control blankets on sloping areas and conveyance channels.

Maintenance
- Inspect within 24 hours of each rain event and at least once every seven calendar days until the vegetation is successfully established.
- Characteristics of a successful stand include vigorous dark green or bluishgreen seedlings with a uniform vegetative cover density of 90 percent or more.
- Check for erosion or movement of mulch.
- Repair damaged, bare, gullied, or sparsely vegetated areas and then fertilize, reseed, and apply and anchor mulch.
- If plant cover is sparse or patchy, evaluate the plant materials chosen, soil fertility, moisture condition, and mulch application; repair affected areas either by overseeding or preparing a new seedbed and reseeding. Apply and anchor mulch on the newly seeded areas.
- If vegetation fails to grow, consider soil testing to determine soil pH or nutrient deficiency problems. (Contact your soil and water conservation district or cooperative extension office for assistance.)
- If additional fertilization is needed to get a satisfactory stand, do so according to soil test recommendations.
- Add fertilizer the following growing season. Fertilize according to soil test recommendations.
- Fertilize turf areas annually. Apply fertilizer in a split application. For cool-season grasses, apply one-half of the fertilizer in late spring and one-half in early fall. For warm-season grasses, apply one-third in early spring, one-third in late spring, and the remaining one-third in middle summer.

Table 1 Permanent Seeding Recommendations
This table provides several seed mixture options. Additional seed mixtures are available commercially. When selecting a mixture, consider intended land use and site conditions, including soil properties (e.g., soil pH and drainage), slope aspect, and the tolerance of each species to shade and drought.

Open Low-Maintenance Areas (Remaining idle more than six months)

Seed Mixtures	Rate per Acre Pure Live Seed	Optimum Soil pH
1. Perennial ryegrass – white clover 1	70 lbs. 2 lbs.	5.6 to 7.0
2. Perennial ryegrass – tall fescue 2	70 lbs. 50 lbs.	5.6 to 7.0
3. Tall fescue 2 – white clover 1	70 lbs. 2 lbs.	5.5 to 7.5

Steep Banks and Cuts, Low-Maintenance Areas (not mowed)

Seed Mixtures	Rate per Acre Pure Live Seed	Optimum Soil pH
1. Smooth brome grass – red clover 1	35 lbs. 20 lbs.	5.5 to 7.0
2. Tall fescue 2 – white clover 1	50 lbs. 2 lbs.	5.5 to 7.5
3. Tall fescue 2 – red clover 1	50 lbs. 20 lbs.	5.5 to 7.5
4. Orchard grass – red clover 1 – white clover 1	30 lbs. 20 lbs. 2 lbs.	5.6 to 7.0
5. Crownvetch 1 – tall fescue 2	12 lbs. 30 lbs.	5.6 to 7.0

Lawns and High-Maintenance Areas

Seed Mixtures	Rate per Acre Pure Live Seed	Optimum Soil pH
1. Bluegrass	140 lbs.	5.5 to 7.0
2. Perennial ryegrass (turf type)	60 lbs. 90 lbs.	5.6 to 7.0
3. Tall fescue (turf type)2 –bluegrass	170 lbs. 30 lbs.	5.6 to 7.5

Channels and Areas of Concentrated Flow

Seed Mixtures	Rate per Acre Pure Live Seed	Optimum Soil pH
1. Perennial ryegrass – white 1	150 lbs. 2 lbs.	5.5 to 7.0
2. Kentucky bluegrass – smooth bromegrass – switchgrass – timothy – perennial ryegrass – white clover	20 lbs. 10 lbs. 3 lbs. 4 lbs. 10 lbs. 2 lbs.	5.5 to 7.5
3. Tall fescue 1 – white clover	150 lbs. 2 lbs.	5.5 to 7.5
4. Tall fescue 2 – perennial ryegrass – Kentucky bluegrass1	150 lbs. 20 lbs. 20 lbs.	5.5 to 7.5

1 For best results: (a) legume seed should be inoculated; (b) seeding mixtures containing legumes should preferably be spring-seeded, although the grass may be fall-seeded and the legume frost-seeded (see Dormant Seeding and Frost Seeding on page 41); and (c) if legumes are fall-seeded, do so in early fall.

2 Tall fescue provides little cover for, and may be toxic to some species of wildlife. The Indiana Department of Natural Resources recognizes the need for additional research on alternatives such as buffalograss, orchardgrass, smooth bromegrass, and switchgrass. This research, in conjunction with demonstration areas, should focus on erosion control characteristics, wildlife toxicity, turf durability, and drought resistance.

Notes
1. An oat or wheat companion or nurse crop may be used with any of the above permanent seeding mixtures, at the following rates:
   (a) spring oats – one-fourth to three-fourths bushel per acre
   (b) wheat – no more than one-half bushel per acre
2. A high potential for fertilizer, seed, and mulch to wash exists on steep banks, cuts, and in channels and areas of concentrated flow.

(4) SOD

Installation
Sod should not be installed during hot weather, on dry soil, frozen soil, compacted clay, loose sand or gravelly substrate soils, aggregate, or pesticidetreated soil. The ideal time to lay sod is May 1 to June 1 or September 1 to September 30, although it can be installed as early as March 15 if available or June 1 to September 1 if irrigated.

Site Preparation
1. Apply topsoil if existing soil conditions are unsuitable for establishing vegetation.
2. Grade the site to achieve positive drainage and create a smooth, firm soil surface.
3. Where applicable, use a chisel plow, disk, harrow, or rake to break up compacted soils and create a favorable rooting depth of six to eight inches.

Sod Bed Preparation
1. Test soil to determine pH and nutrient levels.
2. If soil pH is too acidic for the grass sod to be installed, apply lime according to soil test results or at the rate recommended by the sod supplier.
3. Apply fertilizer as recommended by the soil test. If testing was not done, apply 400 to 600 pounds per acre of 12-12-12 analysis fertilizer, or equivalent.
4. Work the soil amendments into the upper two to four inches of soil with a disk or rake operated across the slope.
5. Rake or harrow the area to achieve a smooth final grade and then roll or cultipack the soil surface to create a firm surface on which to lay the sod.

Laying the Sod
1. Install sod within thirty-six hours of its cutting.
2. Store the sod in a shaded location during installation.
3. Immediately before laying the sod, rake the soil surface to break any crust. (If the weather is hot, lightly irrigate the soil surface prior to laying the sod.)
4. Lay sod strips in a brick-like pattern.
5. Butt all joints tightly against each other (do not stretch or overlap them), using a knife or mason's trowel to trim and fit sod into irregularly shaped areas.
6. Roll the sod lightly after installation to ensure firm contact between the sod and soil.
7. Irrigate newly sodded areas until the underlying soil is wet to a depth of four inches, and then keep moist until the grass takes root.

Slope Application
1. Install the sod strips with the longest dimension perpendicular to the slope.
2. Where slopes exceed a ratio of 3:1, staple or stake each strip at the corners and in the middle.

Channel Application
(Sodding provides quicker protection than seeding and may reduce the risk of early washout.)
1. Excavate the channel, allowing for the full thickness of the sod.
2. Lay the sod strips with the longest dimension perpendicular to channel flow.
3. Staple or stake each strip of sod at the corners and in the middle.
4. Staple jute or biodegradable polypropylene netting over the sodded area to minimize the potential for washout during establishment.

Maintenance
- Inspect within 24 hours of each rain event and at least once every seven calendar days until sod is well rooted.
- Keep sod moist until fully rooted.
- After sod is well-rooted (two to three weeks), maintain a plant height of two to three inches.
- Time mowing to avoid ruts in turf
- Fertilize turf areas annually. Apply fertilizer in a split application. For coolseason grasses, apply one-half of the fertilizer in late spring and one-half in early fall. For warm-season grasses, apply one-third in early spring, one-third in late spring and one-third in mid-summer.

(5) MULCHING

Specifications
Materials
Table 1. Mulch Specifications

Material 1	Rate per Acre	Comments
Straw or Hay	2 tons	Should be dry; free of undesirable seeds. Spread by hand or machine. Must be crimped or anchored (See Table 2).
Wood fiber or cellulose1	1 ton	Apply with a hydraulic mulch machine and use with tacking agent.

1 Mulching is not recommended in concentrated flows. Consider erosion control blankets or other stabilization methods.

Coverage
The mulch should have a uniform density of at least 75 percent over the soil surface.

Anchoring
Table 2. Mulch Anchoring Methods

Anchoring Method	How to Apply
Mulch anchoring tool or farm disk (dull, serrated, and blades set straight)	Crimp or punch the straw or hay two to four inches into the soil. Operate machinery on the contour of the slope.
Cleating with dozer tracks	Operate dozer up and down slope to prevent formation of rills by dozer cleats
Wood hydromulch fibers	Apply according to manufacturer's recommendations.
Synthetic tackifiers, binders, or soil stabilizers	Apply according to manufacturer's recommendations.
Netting (synthetic or biodegradable material)	Install netting immediately after applying mulch. Anchor netting with staples. Edges of netting strips should overlap with each up-slope strip overlapping four to six inches over the adjacent down-slope strip. Best suited to slope applications. In most instances, installation details are site specific, so manufacturer's recommendations should be followed.

1 All forms of mulch must be anchored to prevent displacement by wind and/or water.

Application
1. Apply mulch at the recommended rate shown in Table 1.
2. Spread the mulch material uniformly by hand, hayfork, mulch blower, or hydraulic mulch machine. After spreading, no more than 25 percent of the ground should be visible.
3. Anchor straw or hay mulch immediately after application. The mulch can be anchored using one of the methods listed below:
   a. Crimp with a mulch anchoring tool, a weighted farm disk with dull serrated blades set straight, or track cleats of a bulldozer,
   b. Apply hydraulic mulch with short cellulose fibers,
   c. Apply a liquid tackifier, or
   d. Cover with netting secured by staples.

Maintenance
- Inspect within 24 hours of each rain event and at least once every seven calendar days.
- Check for erosion or movement of mulch; repair damaged areas, reseed, apply new mulch and anchor the mulch in place.
- Continue inspections until vegetation is firmly established.
- If erosion is severe or recurring, use erosion control blankets or other more substantial stabilization methods to protect the area.

(6) Compost Mulching

Compost Specifications
- Feedstocks may include but are not limited to well-composted vegetable matter, leaves, yard trimmings, food scraps, composted manures, paper fiber, wood bark, Class A biosolids (as defined in Title 40 of the Code of Federal Regulations at 40 CFR Part 503), or any combination thereof.
- Compost shall be produced using an aerobic composting process meeting 40 CFR Part 503 regulations, including time and temperature data indicating effective weed seed, pathogen, and insect larvae kill.
- Compost shall be well decomposed, stable, and weed free.
- Refuse free (less than one percent by weight).
- Free of any contaminants and materials toxic to plant growth.
- Inert materials not to exceed one percent by dry weight pH of 5.5 to 8.0.
- Carbon-nitrogen ratio not to exceed 100.
- Moisture content not to exceed 45 percent by dry weight.
- Variable particle size with maximum dimensions of three inches in length, one-half inch in width and one-half inch in depth.

Table 1. Compost Particle Size

Percent Passing Sieve Size			
2-Inch Sieve	1-Inch Sieve	3/4-Inch Sieve	>1/4-Inch Sieve
100%	99%	90%	25%

Bonding Agents (optional)
Tackifiers, flocculants, or microbial additives may be used to remove sediment and/or additional pollutants from storm water runoff. (All additives combined with compost materials should be tested for physical results at a certified erosion and sediment control laboratory and biologically tested for elevated beneficial microorganisms at a United States Compost Council, Seal of Testing Assurance, approved testing laboratory.)

Soil Material (optional)
Five percent to ten percent sandy loam (as classified by the U.S. Department of Agriculture soil classification system).

Cover Density
Ninety percent or greater over the soil surface.

Anchoring Method
- Moisten compost/mulch blanket for a minimum of 60 days.
- Erosion control netting (optional).

Cover Thickness
Table 2. Compost Blanket Thickness

Slope		Thickness of Compost Blanket	Thickness of Compost Blanket with Erosion Control Netting
< 25%	< 4:1	1 to 2 inches	Not Applicable
25% to 50%	4:1 to 2:1	1 to 2 inches	2 inches
> 50%	> 2:1	2 to 3 inches	3 inches

Application
1. Remove existing vegetation, large soil clods, rocks, stumps, large roots, and debris in areas where compost mulch is to be applied and dispose of in designated areas.
2. Scarify sloping areas.
3. Aerate areas to be covered with compost/mulch blanket. (Proper aeration will require a minimum of two passes oriented in opposite directions.)
4. Broadcast a minimum of one pound of nitrogen (N), one-half pound of phosphorous (P205), and one-half pound of potash (K20) per 1,000 square feet or 300 to 400 pounds per acre of 12-12-12 analysis fertilizer, or equivalent, per acre.
5. Apply compost mulch blanket with a pneumatic blower or per manufacturer's directions.
   a. Apply within three days of completing aeration operations.
   b. Overlap top of slope shoulder by five to ten feet.
   c. Seed may be applied at time of installation. (Seed must be evenly blended into the compost if applied with a pneumatic blower or applied with a calibrated seeder attachment prior to installation of the compost blanket.)
6. Water compost mulch blanket for a period of 60 days following application. (On steeper slopes, it may be necessary to install erosion control netting over the compost blanket.)
   a. Mist blanket for first seven days and then every three days throughout the remainder of the 60-day period.
   b. Maintain a constant moisture content of 40 percent to 60 percent.

Maintenance
- Inspect within 24 hours of a rain event and at least once every seven calendar days.
- Repair eroded areas.
- Reseed, if applicable.
- Monitor vegetation and apply appropriate soil amendments (if needed) per a soil test.

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EROSION CONTROL NOTES
WESTFIELD HIGH SCHOOL ADDITION
WESTFIELD WASHINGTON SCHOOLS
322 WEST MAIN STREET
WESTFIELD, IN. 46074

Certified By: DAVID A. LACH, REGISTERED PE 10000128, STATE OF INDIANA, PROFESSIONAL ENGINEER

Date: 01-05-09

Sheet: C403
Date: 01-05-09
Project Number: 040338-20201

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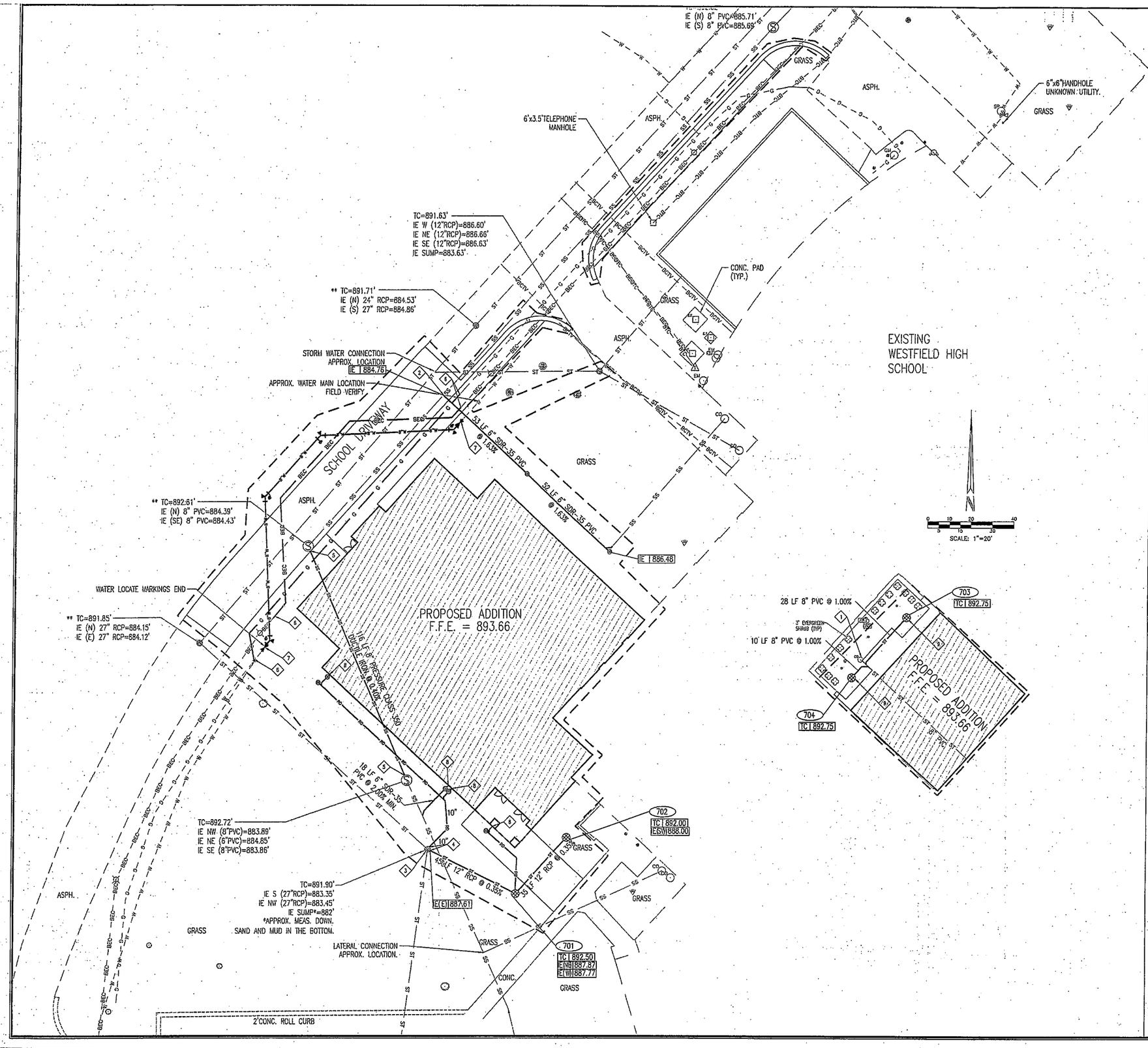

UTILITY PLAN LEGEND

PROPOSED CONSTRUCTION

SANITARY SEWER

SANITARY CLEANOUT — CO
SANITARY LATERAL
SANITARY LINE — SS — SANITARY MANHOLE
SANITARY STRUCTURE NUMBER — 501
SANITARY CASTING ELEVATION — TC 715.50
EASEMENT LINE

STORM SEWER

STORM SEWER INLETS
STORM MANHOLE
END SECTION
STORM SEWER STRUCTURE NUMBER — 701
STORM SEWER INVERT ELEVATION — IE 715.50
TOP OF CASTING ELEVATION — TC 715.50
ROOF DRAIN — RD

WATER

WATER LINE — W
WATER VALVE
PROPOSED FIRE HYDRANT
PROPOSED REDUCER
PROPOSED "TEE"
PROPOSED 45° ELBOW
PROPOSED 90° ELBOW
PROPOSED 22° ELBOW
PROPOSED 11° ELBOW
THRUST BLOCK

ELECTRIC

OVERHEAD ELECTRIC — E
BURIED ELECTRIC — BEC

GAS / CABLE / TELEPHONE

OVERHEAD CABLE TELEVISION — CTV
BURIED CABLE TELEVISION — BCTV
GAS LINE — G
OVERHEAD TELEPHONE LINE — T
BURIED TELEPHONE LINE — BTC

UTILITY PLAN NOTES:

1. SEE ARCHITECTURAL PLUMBING PLANS FOR PLUMBING DETAILS TO AREAS FIVE (5) FEET OUTSIDE AND INSIDE OF THE PROPOSED STRUCTURE.
2. WATER LINES THROUGHOUT THE PROJECT SHALL BE INSTALLED WITH AT LEAST 48 INCHES OF COVER TO PROVIDE PROTECTION FROM FREEZING.
3. LOCATIONS OF EXISTING UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE. THE CONTRACTOR IS TO FIELD VERIFY ALL HORIZONTAL AND VERTICAL LOCATIONS PRIOR TO CONSTRUCTION.
4. ALL PROPOSED WATER LINES SHALL BE PRESSURE CLASS 350 DUCTILE IRON PIPE
5. SEE SHEET C502 AND C503 FOR ALL UTILITY DETAILS.
6. WATER AND SEWER CROSSINGS AND SEPARATIONS SHALL BE IN ACCORDANCE WITH "TEN STATE STANDARDS" AND LOCAL CODES.
7. TOP OF CASTING (TC) TO SHALL INDICATE THE ELEVATION THAT WATER WOULD ENTER A STRUCTURE, WHEN A STRUCTURE IS NOT A CURB INLET. TC SHALL INDICATE TOP OF CURB WHEN STRUCTURE IS A CURB INLET.
8. ANY DISCREPANCIES OR CONFLICTS WHICH BECOME APPARENT BEFORE OR DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER PRIOR TO CONSTRUCTION SO THAT CLARIFICATION OR REDESIGN MAY OCCUR.
9. ALL ROOF DRAINS SHALL BE 8" SDR-35 PVC @ 1.00% MINIMUM SLOPE UNLESS OTHERWISE NOTED.

UTILITY PLAN KEYNOTES

1. LOWER EXISTING CLEANOUT TO PROPOSED GRADE (SEE GRADING PLAN)
2. LATERAL CONNECTION TO EXISTING SEWER (SEE FIGURE 'S-11)'
3. CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE ALL SEDIMENT FROM EXISTING STORM STRUCTURE.
4. CORE DRILL EXISTING STRUCTURE FOR PROPOSED CONNECTION
5. INSTALL RUBBER BOOT FOR NEW PIPE CONNECTION TO EXISTING MANHOLE
6. COORDINATE GAS AND ELECTRIC SERVICES TO BE RE-ROUTED WITH RESPECTIVE UTILITY COMPANY
7. INSTALL TAPPING SLEEVE, VALVE AND VALVE BOX TO ISOLATE WATER MAIN. TO BE REMOVED.
8. VERIFY LOCATION AND INVERT OF STORM AND SANITARY SEWER SERVICE CONNECTIONS WITH PLUMBING PLANS
9. YARD DRAIN (SEE DETAIL ST-80A)

"HOLEY HOLEY" SAYS CALL AT LEAST TWO FULL WORKING DAYS BEFORE YOU DIG "IT'S THE LAW"

1-800-382-5544
CALL TOLL FREE
1-800-428-5200
FOR CALLS OUTSIDE OF INDIANA

CAUTION

LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (including, but not limited to, manholes, inlets, valves, and marks made upon the ground by others) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF SAID EXISTING UNDERGROUND UTILITIES SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

Revisions			
Mark	Date	Description	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	

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OWNERS REPRESENTATION

UTILITY PLAN

WESTFIELD HIGH SCHOOL ADDITION

WESTFIELD WASHINGTON SCHOOLS

322 WEST MAIN STREET
WESTFIELD, IN 46074

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PROFESSIONAL ENGINEER

Date 01-05-09

COVERING

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Sheet C501
Date 01-05-09
Project Number 040338-20201

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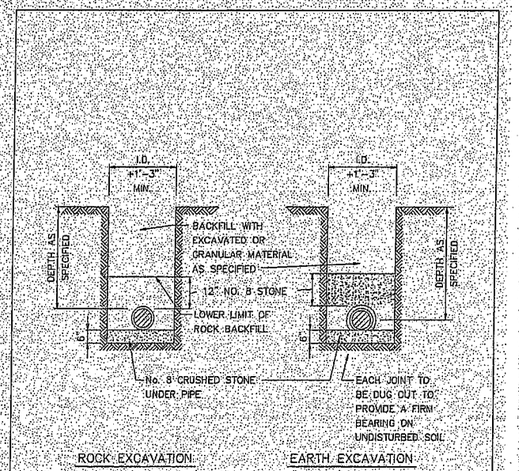
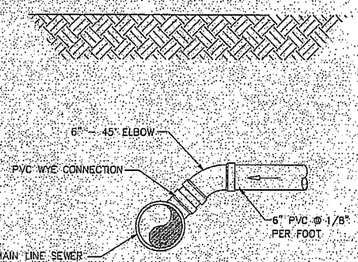


NOTE:
THIS DETAIL SHALL APPLY TO ALL SANITARY SEWER PIPE

SEWER PIPE BEDDING DETAIL

TOWN OF WESTFIELD, INDIANA

10/9/08 DATE FIGURE S-5

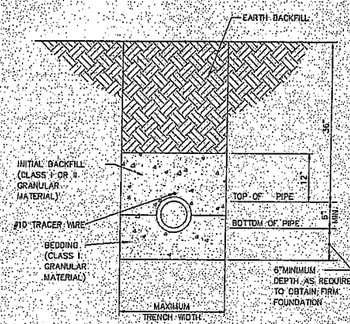


SECTIONAL VIEW

HOUSE/BUILDING SERVICE CONNECTION DETAIL 2

TOWN OF WESTFIELD, INDIANA

10/9/08 DATE FIGURE S-11



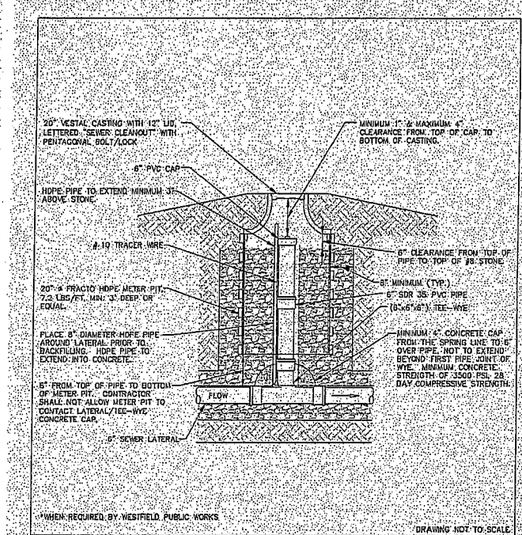
NOTES:

1. NOMINAL PIPE SIZE, (8" MIN.)
2. INSTALLATION OF FLEXIBLE PVC PIPE SHALL BE IN ACCORDANCE WITH SPECIFICATIONS CONTAINED IN ASTM-D-2321.
3. CLASS I GRANULAR MATERIAL SHALL BE 1/4" TO 1-1/2" GRADED STONE, PER ASTM D2321 (#8 CRUSH STONE)
4. CLASS II GRANULAR MATERIAL SHALL BE COARSE SANDS AND GRAVELS MAX. PARTIAL SIZE OF 3/4"
5. SEE FIGURE S-9 FOR MAIN LINE SEWERS PIPE BEDDING DETAILS.
6. #10 TRACER WIRE TO BE EXTENDED FROM SEWER MAIN TO 8" CLEANOUT RISER

HOUSE/BUILDING SERVICE BEDDING DETAILS

TOWN OF WESTFIELD, INDIANA

10/9/08 DATE FIGURE S-12



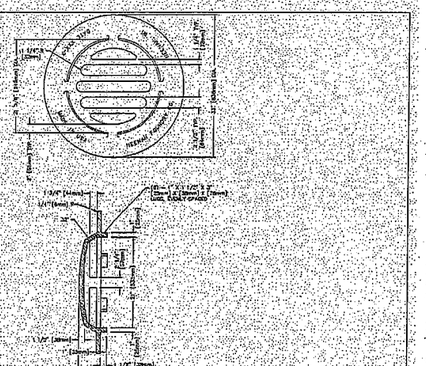
*WHEN REQUIRED BY WESTFIELD PUBLIC WORKS

DRAWING NOT TO SCALE

TYPE 2 CLEAN-OUT DETAIL

TOWN OF WESTFIELD, INDIANA

10/9/08 DATE FIGURE S-15



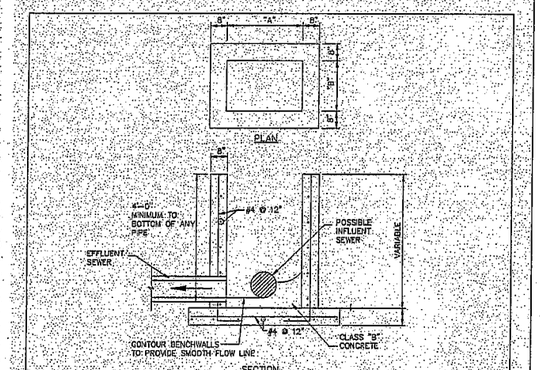
NEENAH	R-4342
EAST JORDAN	6489

* OR APROVED BY WESTFIELD PUBLIC WORKS DEPARTMENT
** STORM SEWER CASTINGS MANHOLE COVERS, BEEHIVE INLETS, CURB INLETS OR OTHER APPROVED CASTING SHALL HAVE THE FOLLOWING PHRASES CAST IN RECESSED LETTERS TWO (2) INCHES IN HEIGHT:
A. "STORM SEWER"
B. "DRAINS TO RIVER" OR "DRAINS TO WATERWAY"
C. "DUMP NO WASTE"
D. OTHER PHRASES SHALL REQUIRE APPROVAL OF THE WESTFIELD PUBLIC WORKS DEPARTMENT.

BEEHIVE CURB INLET CASTING

TOWN OF WESTFIELD, INDIANA

4/10/08 DATE FIGURE ST-10



CAST	"A"	"B"
TYPE 1	36"(0.91m)	24"(0.61m)
TYPE 2	24"(0.61m)	22"(0.55m)
TYPE 3	22"(0.55m)	20"(0.51m)

NOTE:
1. THESE DIMENSIONS ARE ALSO APPLICABLE TO TYPE "CA" CATCH BASINS. (See figure ST-13)
2. PRECAST INLETS AND CATCH BASINS SHALL BE CONSIDERED AN ACCEPTABLE ALTERNATE IF APPROVED BY THE WESTFIELD PUBLIC WORKS DEPARTMENT

INLET STRUCTURE TYPE 1A

TOWN OF WESTFIELD, INDIANA

4/10/08 DATE FIGURE ST-11

PIPE SIZE (INCHES)	STRUCTURES LESS THAN 48" FROM T/C TO INVERT (INCHES)	STRUCTURES GREATER THAN 48" FROM T/C TO INVERT	ANGLE AND QUALITY OF PIPES WILL REQUIRE SPECIAL DESIGN	STEPS REQUIRED	CURB CASTING #8-350W	CASTING #3501 TL & TR
12 TO 18	24 X 24	***	DESIGN APPROVAL	NO	YES	YES
15 TO 21	30 X 30	***	DESIGN APPROVAL	NO	YES	YES
18 TO 21		MH/BOX	DESIGN APPROVAL	YES	YES	YES
21 TO 27	24 X 36* OR 36 X 36	***	DESIGN APPROVAL	NO	NO	YES
12 TO 24	36 X 36	***	DESIGN APPROVAL	NO	YES	YES
24 OR LARGER	DESIGN APPROVAL	***	DESIGN APPROVAL	NO	NO	YES
24 OR LARGER		MH/BOX	DESIGN APPROVAL	YES**	YES	YES

* PIPES NO LARGER THAN 18" CAN BE USED IN THE 2' SIDE OF THIS BOX.

**INCOMING AND OUT GOING PIPES EFFECT STEPS IN THIS STRUCTURE.

***SPECIAL NOTE: STRUCTURES DEEPER THAN 48" FROM T/C TO INVERT WILL BE A M.H. OR A BOX WITH STEPS UNLESS SPECIAL DESIGN IS APPROVED.

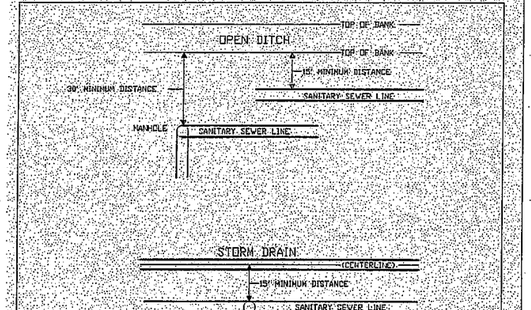
SPECIAL NOTE: STRUCTURES WILL BE DESIGNED FOR MAXIMUM FLOW IN PIPES.

SPECIAL NOTE: TOWN MAY REQUIRE STEPS TO BE INSTALLED AFTER STRUCTURE IS SET, TO IMPROVE ACCESS.

STORM STRUCTURE SIZING TABLE

TOWN OF WESTFIELD, INDIANA

4/10/08 DATE FIGURE ST-15



A SANITARY SEWER MANHOLE CANNOT BE LOCATED ANY CLOSER THAN 30 FEET FROM THE TOP OF BANK OF AN OPEN DITCH, OR 15 FEET FROM THE CENTERLINE OF A REGULATED DRAIN TILE.

THE ACTUAL SANITARY SEWER PIPE CANNOT BE LOCATED ANY CLOSER THAN 15 FEET FROM THE THE TOP OF BANK OF AN OPEN DITCH, OR FROM THE CENTERLINE OF A REGULATED DRAIN TILE.

DEEPER INSTALLATIONS OF SANITARY SEWERS MAY REQUIRE GREATER DISTANCE BETWEEN DRAIN AND SANITARY SEWER MANHOLE OR PIPE.

(DRAWING NOT TO SCALE)

STANDARD FOR SANITARY SEWERS BEING CONSTRUCTED ADJACENT TO AN OPEN DRAIN & PARALLEL TO STORM DRAINS

TOWN OF WESTFIELD, INDIANA

4/10/08 DATE FIGURE ST-20

Revisions		
No.	Date	Description

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UTILITY PLAN DETAILS
WESTFIELD HIGH SCHOOL ADDITION
WESTFIELD WASHINGTON SCHOOLS
322 WEST MAIN STREET
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CERTIFIED BY:
DAVID A. LACH REGISTERED PE 10000128 STATE OF INDIANA PROFESSIONAL ENGINEER
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FOR LOCATIONS OF PIPELINES

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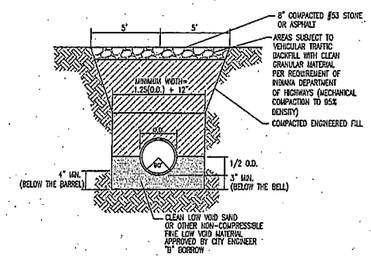
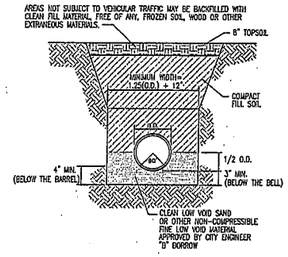
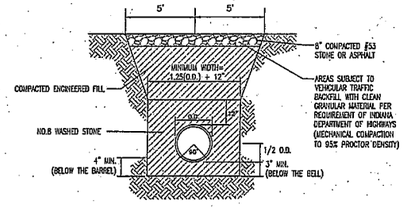


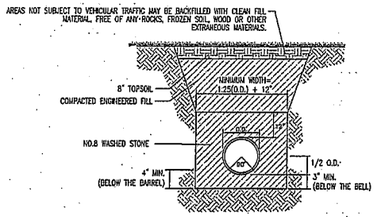
ST-32A RIGID PIPE BEDDING DETAIL (STORM)
NO SCALE CONCRETE PIPE AND CMP



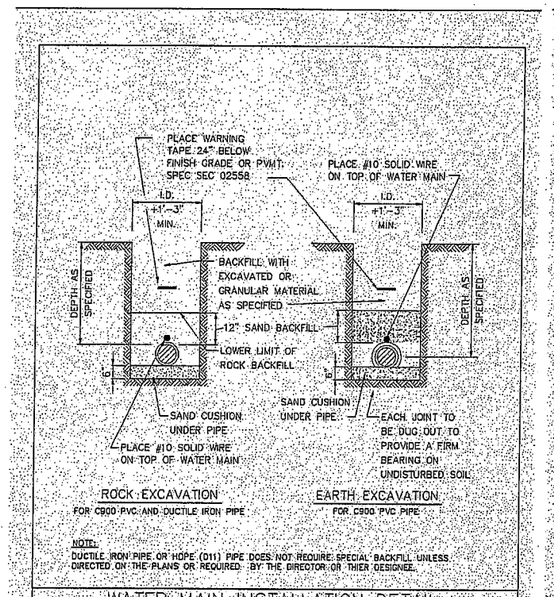
ST-32 RIGID PIPE BEDDING DETAIL (STORM)
NO SCALE CONCRETE PIPE AND CMP



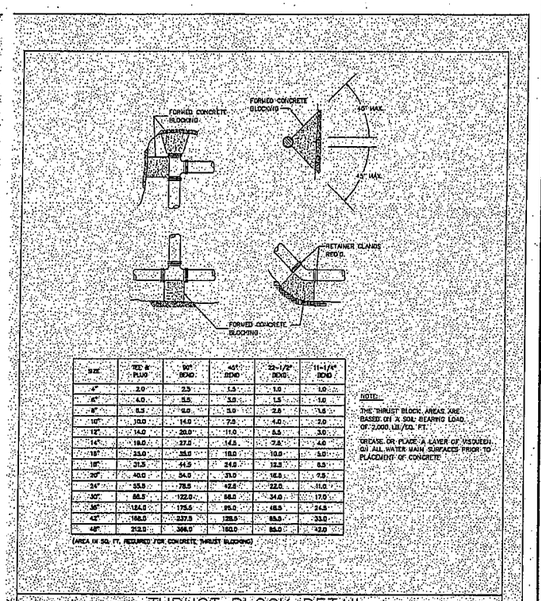
ST-33A FLEXIBLE PIPE BEDDING DETAIL (STORM)
NO SCALE PVC & HDPE



ST-33 FLEXIBLE PIPE BEDDING DETAIL (STORM)
NO SCALE PVC & HDPE



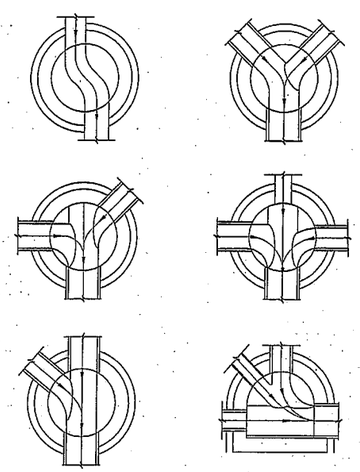
WATER MAIN INSTALLATION DETAIL
TOWN OF WESTFIELD, INDIANA
10/9/08 DATE FIGURE W-1



SIZE	TEE & PLUG	90° BEND	45° BEND	22-1/2° BEND	11-1/4° BEND
4"	2.0	2.5	1.5	1.0	1.0
6"	4.0	5.5	3.0	1.5	1.0
8"	5.5	9.0	5.0	2.5	1.5
10"	10.0	14.0	7.0	4.0	2.0
12"	14.0	20.0	11.0	5.5	3.0
14"	19.0	27.0	14.5	7.5	4.0
16"	25.0	35.0	19.0	10.0	5.0
18"	31.0	44.0	24.0	12.5	6.5
20"	40.0	54.0	31.0	16.5	8.5
24"	55.0	78.0	42.5	22.0	11.0
30"	86.0	122.0	66.0	34.0	17.0
36"	124.0	175.0	95.0	48.5	24.0
42"	168.0	237.0	128.0	65.0	33.0
48"	212.0	308.0	160.0	85.0	43.0

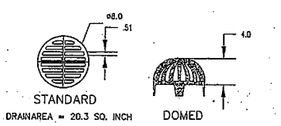
(AREA IN SQ. FT. REQUIRED FOR CONCRETE THRUST BLOCKING)

THRUST BLOCK DETAIL
TOWN OF WESTFIELD, INDIANA
10/9/08 DATE FIGURE W-2



SANITARY SEWER BENCH SLOPE = 1/2" PER FOOT

SA-33 STANDARD MANHOLE BENCHES
NO SCALE

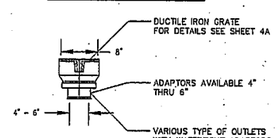


CASTINGS ARE RATED FOR LIGHT WHEEL LOAD TRAFFIC

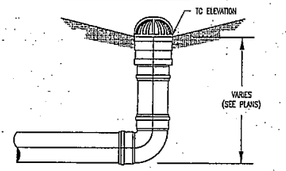
QUALITY: MATERIAL SHALL CONFORM TO ASTM A48 - CLASS 30B

PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT

8" DUCTILE IRON GRATE



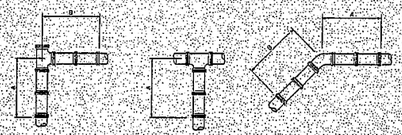
8" INLINE DRAIN



YARD INLET DETAIL
BEGINNING OF DRAIN LINE

ST-80A NYLOPLAST 8" YARD DRAIN DETAIL
NO SCALE

DETAILS PROVIDED BY:
Nyloplast America, Inc.
3130 Verona Avenue
Buford, Georgia 30518



NOTE:
THE LENGTHS OF PIPE WITH RESTRAINED JOINTS ARE BASED ON A COMPACTED SILTY SAND SURROUNDING THE PIPE.

SIZE	A	B			
	TEE & PLUG	90° BEND	45° BEND	22-1/2° BEND	11-1/4° BEND
6"	13'-0"	17'-0"	10'-0"	6'-0"	3'-0"
8"	16'-0"	22'-0"	13'-0"	8'-0"	4'-0"
10"	19'-0"	27'-0"	16'-0"	9'-0"	5'-0"
12"	22'-0"	32'-0"	19'-0"	11'-0"	6'-0"
14"	25'-0"	36'-0"	21'-0"	12'-0"	7'-0"
16"	29'-0"	41'-0"	24'-0"	14'-0"	8'-0"
18"	32'-0"	45'-0"	26'-0"	15'-0"	8'-0"
20"	35'-0"	50'-0"	29'-0"	16'-0"	9'-0"
24"	41'-0"	59'-0"	34'-0"	19'-0"	10'-0"
30"	50'-0"	70'-0"	40'-0"	22'-0"	12'-0"
36"	58'-0"	82'-0"	46'-0"	26'-0"	14'-0"
42"	66'-0"	93'-0"	52'-0"	29'-0"	16'-0"

(LENGTH IN FEET REQUIRED FOR RESTRAINING JOINTS)

RESTRAINED JOINT DETAILS
TOWN OF WESTFIELD, INDIANA
10/9/08 DATE FIGURE W-3

Revisions		
No.	Date	Description

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UTILITY PLAN DETAILS
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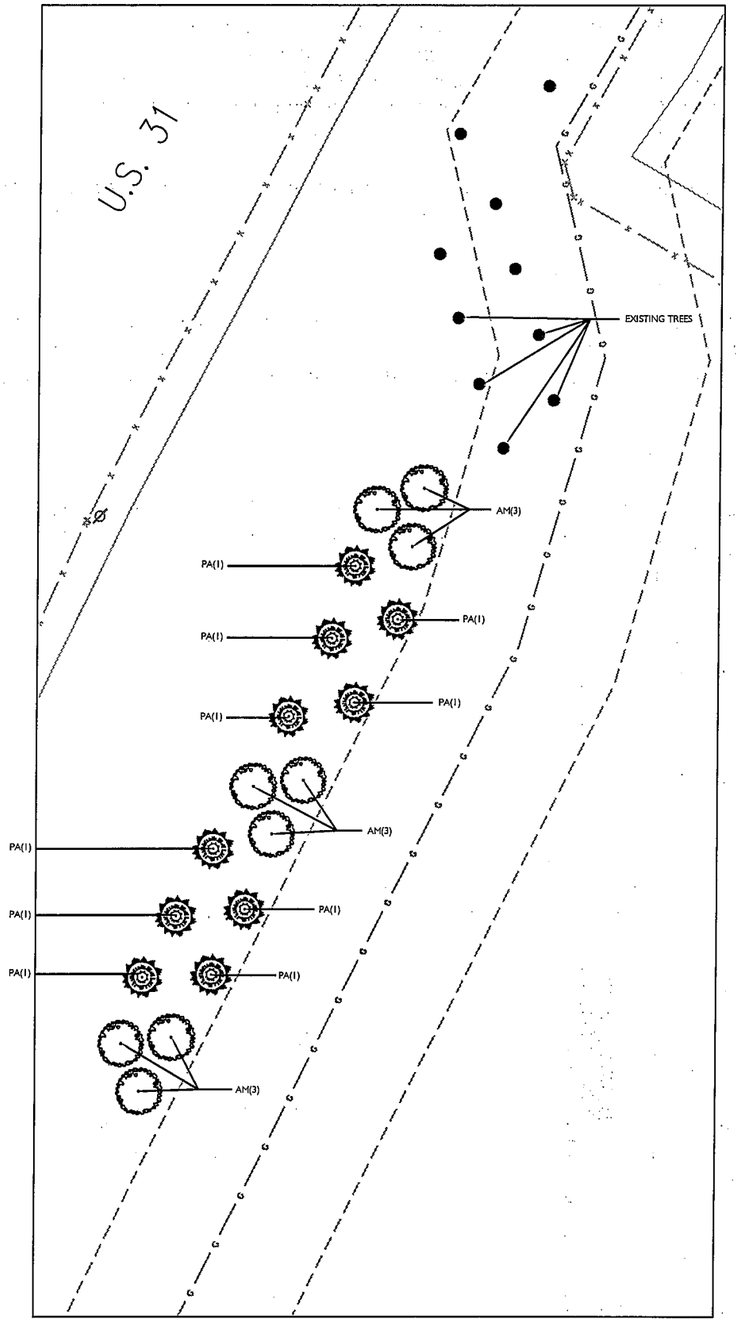
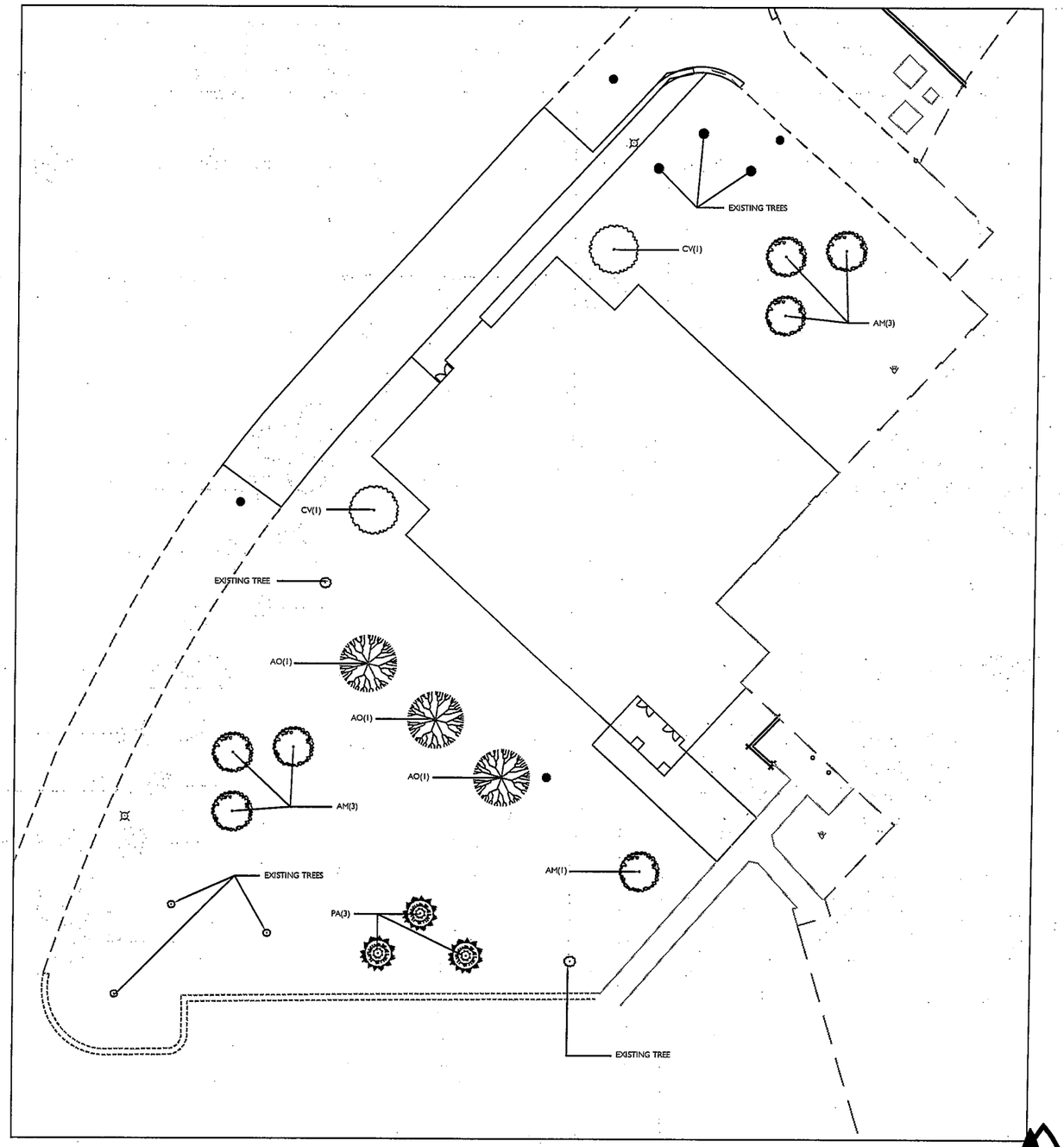


1 L1.0 BUFFER YARD LANDSCAPE PLAN
SCALE: 1"=20'



2 L1.0 ADDITION LANDSCAPE PLAN
SCALE: 1"=20'

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Revisions

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LANDSCAPE PLAN
WESTFIELD HIGH SCHOOL ADDITION
WESTFIELD WASHINGTON SCHOOLS
322 WEST MAIN STREET
WESTFIELD, IN 46074

CERTIFIED BY:

Date: 01-05-09

COVERING
LANDSCAPE PLAN
DESIGN

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Scale: 0 Scale: 1" =
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Project Number: 040338-20201

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Drawing: G:\2040\040338\20201\CAD\CAD\PLANS\TMC\1-9-09\L101_WESTFIELD_HS_01182009.DWG
Layout Tab: L101
Plotted Sec: 1/20/2011
File Last Updated: Fri, 08 Jan 2009
Plotted By: CLOUD
Plotted: Wed, 01/05/2011 - 10:22 AM
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040338-20201-CIVIL [L:\040338-20201-CIVIL.dwg]
040338-20201-ID-PD [L:\040338-20201-ID-PD.dwg]

PLANT MATERIAL SCHEDULE

KEY	BOTANICAL NAME	COMMON NAME	QUAN.	SIZE
AO	ACER R. 'OCTOBER GLORY'	OCTOBER GLORY MAPLE	3	2-1/2" B&B
AM	AMELANCHIER LAEVIS 'CUMULUS'	ALLEGHENY SERVICEBERRY	16	1.3/4" B&B
CV	CRATAEGUS VIRIDIS 'WINTER KING'	WINTER KING HAWTHORN	2	2" B&B
IV	ITEA VIRGINICA 'HENRY'S GARNET'	HENRY GARNET SWEETSPIRE	20	3 GALLON
MM	MISCANTHUS S 'MORNING LIGHT'	MORNING LIGHT MAIDEN GRASS	20	3 GALLON
PN	PENNISETUM A. 'HAMELN'	DWARF FOUNTAIN GRASS	28	3 GALLON
HP	HEMEROCALLIS 'PARDON ME RED'	PARDON ME RED DAYLILY	77	1 GALLON
PA	PICEA ABIES	NORWAY SPRUCE	13	7-8' B&B

GENERAL NOTES:

1. FOR SITE LAYOUT INFORMATION SEE CIVIL DRAWINGS

2. VERIFY UNDERGROUND UTILITY LOCATIONS PRIOR TO PLANT INSTALLATION

3. CONTRACTOR TO VERIFY QUANTITIES; NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES.

4. CONTRACTOR TO VERIFY FIELD CONDITIONS, NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES BETWEEN DRAWINGS AND FIELD CONITIONS.

5. STAKE ALL TREES AND SHRUBS AS INDICATED BY INDUSTRY STANDARDS.

6. CONTRACTOR TO REGRADE, REPAIR AND REPLANT ALL AREAS DISTURBED BY CONSTRUCTION, INCLUDES ANY AREAS OFF-PROPERTY AND OR OTHERWISE NOT INDICATED ON PLANS.

7. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE IN LAWN AND PLANTING BED AREAS.

8. CONTRACTOR SHALL USE TREE & SHRUB DETAILS AS PLANTING GUIDELINES.

CAUTION !!

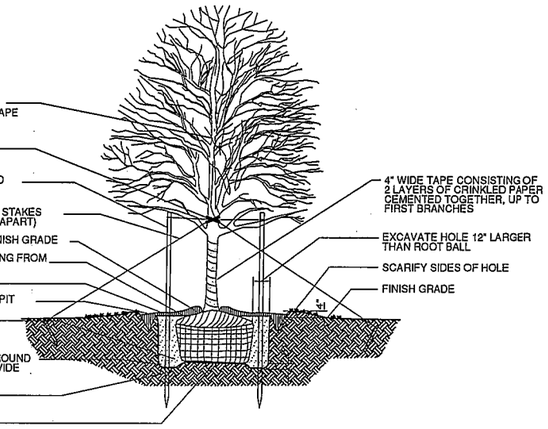
THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (including, but not limited to, manholes, inlets, valves, and marks made upon the ground by others) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF SAID EXISTING UNDERGROUND UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

1-800-382-5544
CALL TOLL FREE
- INDIANA UNDERGROUND -

REMOVE ALL STAKING AS SOON AS THE TREE HAS GROWN SUFFICIENT ROOTS TO OVERCOME THE PROBLEM THAT REQUIRED THE TREE TO BE STAKED. STAKES SHALL BE REMOVED NO LATER THE END OF THE FIRST GROWING SEASON AFTER PLANTING.

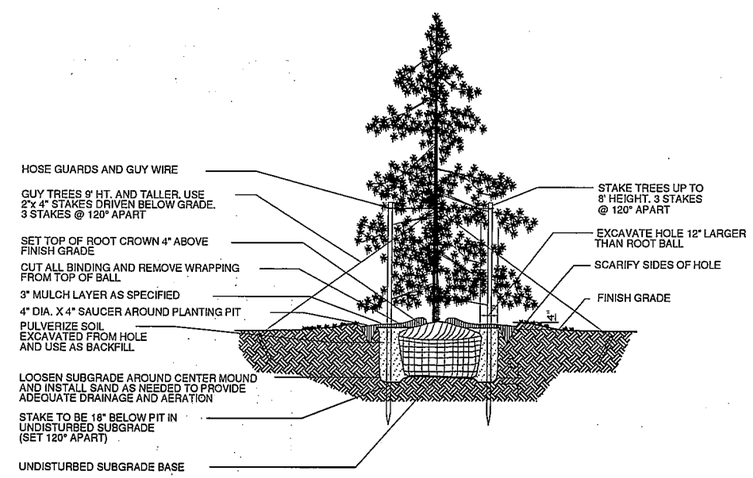
TREES NORMALLY DO NOT NEED TO BE STAKED AND STAKING CAN BE HARMFUL TO THE TREE. STAKING SHOULD BE DONE ONLY WITH THE APPROVAL OF THE LANDSCAPE ARCHITECT IF IT IS EXPECTED THAT THE TREE WILL NOT BE ABLE TO SUPPORT ITSELF. THE FOLLOWING ARE REASONS WHY TREES DO NOT REMAIN STRAIGHT.

- o TREES WITH POOR - QUALITY ROOT BALLS OR ROOT BALLS THAT HAVE BEEN CRACKED OR DAMAGED. REJECT RATHER THAN STAKE.
- o TREES THAT HAVE GROWN TOO CLOSE TOGETHER IN THE NURSERY, RESULTING IN WEAK TRUNKS. REJECT RATHER THAN STAKE.
- o PLANTING PROCEDURES THAT DO NOT ADEQUATELY TAMP SOILS AROUND THE ROOT BALL. CORRECT THE PLANTING PROCEDURE.
- o ROOT BALLS PLACED ON SOFT SOIL. TAMP SOILS UNDER ROOT BALL PRIOR TO PLANTING.
- o ROOT BALLS WITH VERY SANDY SOIL OR VERY WET CLAY SOIL. STAKING ADVISABLE.
- o TREES LOCATED IN A PLACE OF EXTREMELY WINDY CONDITIONS. STAKING ADVISABLE.



SHADE TREE PLANTING DETAIL

NOT TO SCALE



EVERGREEN TREE PLANTING DETAIL

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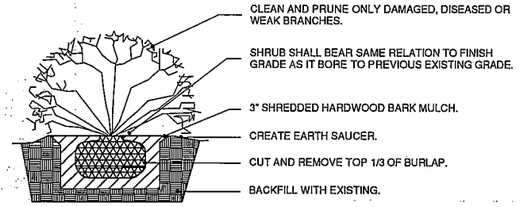

SHRUB PLANTING DETAIL

NOT TO SCALE

VIVE exterior design
15370 hornman blvd
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f: 317-773-9944
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Revisions		
Mark	Date	Description

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• LEED
• OWNER'S REPRESENTATION

LANDSCAPE PLAN

WESTFIELD HIGH SCHOOL ADDITION

WESTFIELD WASHINGTON SCHOOLS

322 WEST MAIN STREET
WESTFIELD, IN 46074

CERTIFIED BY:

Date 01-05-09

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LANDSCAPE PLAN
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Sheet L102

Date 01-05-09

Project Number 040338-20201

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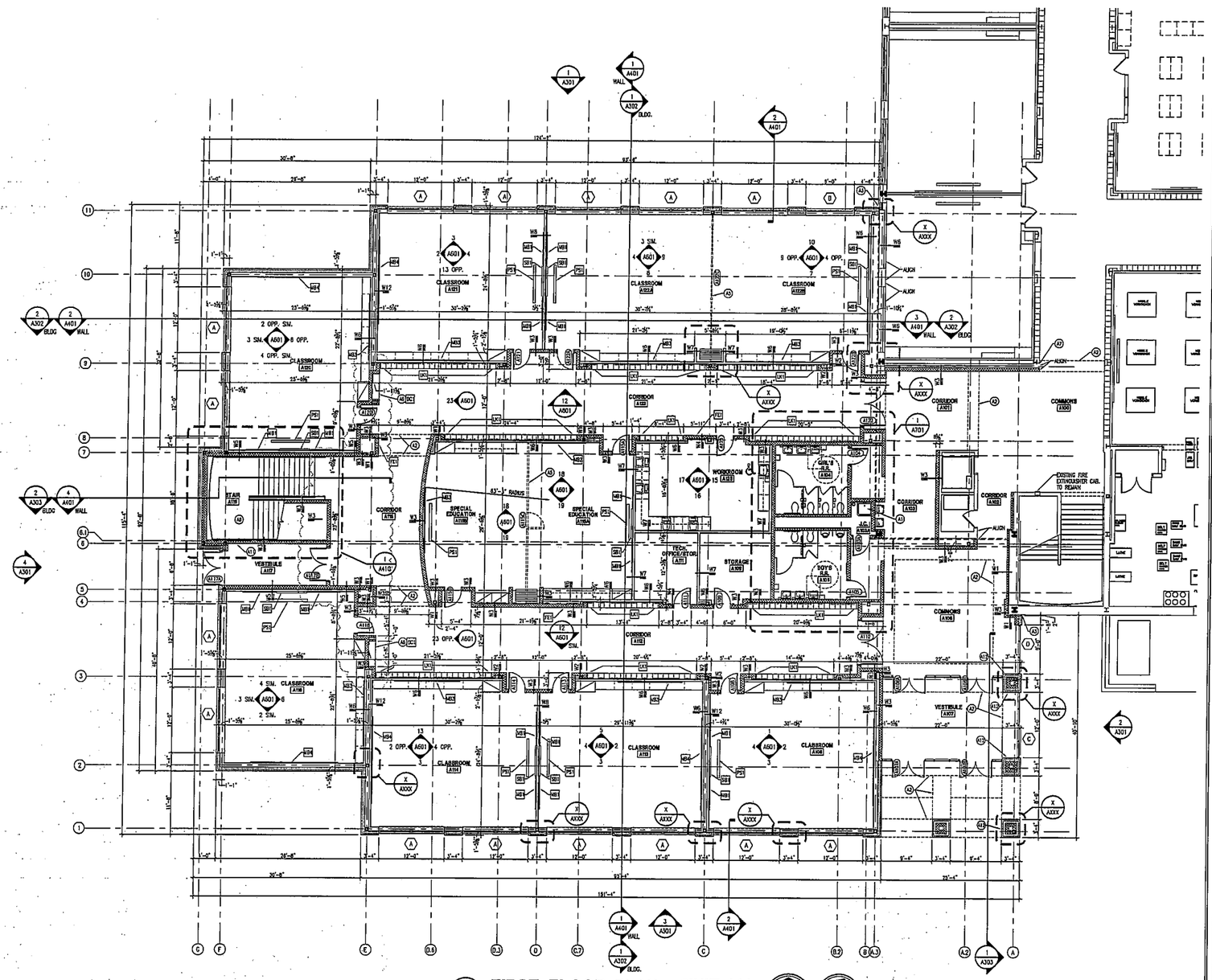
Drawing: G:\2004\040338\2020\CAD\LDPD\DRAWINGS\040338-L102.WESTFIELD_HS_01080209.DWG
Layout Tab: L102(LP)
Plotted by: Michael Thursday, Jan 08, 2009
Plot Scale: 1:1
Date: 01/08/2009/10:52:12 AM



1 A201 **FIRST FLOOR PLAN - UNIT 'A'**
SCALE: 1/8" = 1'-0"

WALL TYPES

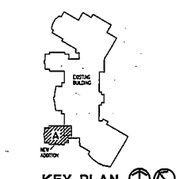
W1	3 5/8" CONCRETE BLOCK WITH HORIZONTAL JOINT REINFORCEMENT @ 16" VERTICALLY. EXTEND BLOCK FULL HEIGHT TO BOTTOM OF DECK.	**W4**	7 5/8" CONCRETE BLOCK WITH HORIZONTAL JOINT REINFORCEMENT @ 16" VERTICALLY WITH 2½" METAL FURRING CHANNELS @ 16" O.C. AND ½" G.W.B. ONE SIDE. EXTEND BLOCK FULL HEIGHT TO BOTTOM OF DECK. EXTEND FURRING AND G.W.B. TO 6" ABOVE FINISHED CEILING PLANE.	**W7**	3 5/8" 20 GAUGE STEEL STUDS @ 16" O.C. EXTENDING TO BOTTOM OF DECK ABOVE. PROVIDE DEFLECTION TRACK AT BOTTOM OF DECK TO ALLOW FOR DEFLECTION OF DECK ABOVE. 5/8" G.W.B. ON BOTH SIDES OF STUD, TAPED & FINISHED, AND SOUND ATTENUATION BLANKETS EXTENDING TO WITHIN 1" OF BOTTOM OF DECK ABOVE.	**W10**	2 1/2" 20 GAUGE STEEL STUDS @ 16" O.C. EXTENDING TO BOTTOM OF DECK ABOVE. PROVIDE DEFLECTION TRACK AT BOTTOM OF DECK TO ALLOW FOR DEFLECTION OF DECK ABOVE. 5/8" G.W.B. ON ONE SIDE OF STUD, TAPED & FINISHED EXTENDING TO WITHIN 1" OF DECK ABOVE.		
W2	5 5/8" CONCRETE BLOCK WITH HORIZONTAL JOINT REINFORCEMENT @ 16" VERTICALLY. EXTEND BLOCK FULL HEIGHT TO BOTTOM OF DECK.	**W5**	7 5/8" CONCRETE BLOCK WITH HORIZONTAL JOINT REINFORCEMENT @ 16" VERTICALLY WITH 1" AIRSPACE AND 3 3/8" 20 GAUGE STEEL STUDS @ 16" O.C. WITH ½" G.W.B. ONE SIDE. EXTEND BLOCK FULL HEIGHT TO BOTTOM OF DECK. EXTEND STUDS AND G.W.B. TO 6" ABOVE FINISHED CEILING PLANE.	**W8**	3 5/8" 20 GAUGE STEEL STUDS @ 16" O.C. EXTENDING TO BOTTOM OF DECK ABOVE. PROVIDE DEFLECTION TRACK AT BOTTOM OF DECK TO ALLOW FOR DEFLECTION OF DECK ABOVE. 2 LAYERS 5/8" G.W.B. ON BOTH SIDES OF STUD, TAPED & FINISHED, AND SOUND ATTENUATION BLANKETS EXTENDING TO WITHIN 1" OF BOTTOM OF DECK ABOVE. ACOUSTICAL SEALANT TO DECK. MINIMUM STC = 56.	**W11**	6" 20 GAUGE STEEL STUDS @ 16" O.C. EXTENDING TO BOTTOM OF DECK ABOVE. PROVIDE DEFLECTION TRACK AT BOTTOM OF DECK TO ALLOW FOR DEFLECTION OF DECK ABOVE. 5/8" G.W.B. ON BOTH SIDES OF STUD, TAPED & FINISHED, AND SOUND ATTENUATION BLANKETS EXTENDING TO WITHIN 1" OF DECK ABOVE.		
W3	7 5/8" CONCRETE BLOCK WITH HORIZONTAL JOINT REINFORCEMENT @ 16" VERTICALLY. EXTEND BLOCK FULL HEIGHT TO BOTTOM OF DECK.	**W6**	3 5/8" 20 GAUGE STEEL STUDS @ 16" O.C. EXTENDING TO BOTTOM OF DECK ABOVE. PROVIDE DEFLECTION TRACK AT BOTTOM OF DECK TO ALLOW FOR DEFLECTION OF DECK ABOVE. 5/8" G.W.B. ON ONE SIDE OF STUD, TAPED & FINISHED EXTENDING TO WITHIN 1" OF DECK ABOVE.	**W9**	¾" METAL FURRING CHANNELS @ 16" O.C. AND ½" G.W.B. OVER EXISTING WALL CONSTRUCTION. EXTEND FURRING AND G.W.B. TO 6" ABOVE FINISHED CEILING PLANE.	**W12**	3 ½" 20 GAUGE STEEL STUDS @ 16" O.C. EXTENDING TO BOTTOM OF DECK ABOVE. PROVIDE DEFLECTION TRACK AT BOTTOM OF DECK TO ALLOW FOR DEFLECTION OF DECK ABOVE. 2 LAYERS 5/8" G.W.B. ON ONE SIDE OF STUD, TAPED & FINISHED, AND SOUND ATTENUATION BLANKETS EXTENDING TO WITHIN 1" OF DECK ABOVE.		

GENERAL NOTES

1. COORDINATE THE WORK OF EACH TRADE WITH THE WORK OF ALL OTHER TRADES.
2. ALL DIMENSIONS ARE FROM FACE OF BLOCK OR FACE OF GYPSUM BOARD. ANY DIMENSIONS NOT SHOWN OR DEEMED QUESTIONABLE ARE TO BE VERIFIED WITH THE ARCHITECT. DO NOT SCALE FROM THE DRAWINGS.
3. REFER TO WALL TYPES SCHEDULE ON SHEETS A001 AND A002 TO DETERMINE WHICH WALLS EXTEND TO DECK. SEE STRUCTURAL FOR FOP SUPPORT DETAIL. WHERE METAL STUDS EXTEND TO DECK, PROVIDE SLIP CONNECTORS FOR ROOF/ FLOOR DEFLECTION. STEEL STUD AND C.M.U PARTITIONS THAT DO NOT EXTEND TO ROOF OR FLOOR DECK ARE TO BE BRACED TO STRUCTURE. REFER TO STRUCTURAL, REFER TO REFLECTED CEILING PLANS FOR FIRE-RATING REQUIREMENTS OF INTERIOR PARTITIONS.
4. ALL STEEL STUDS ARE TO BE BRACED ACCORDING TO MANUFACTURER LIMIT NO(HTE/2H).
5. WHERE INSULATED OR SOUND WALLS EXTEND TO DECK, FILL DECK FLUTES WITH INSULATION/ SOUND ATTENUATION.
6. ALL CONCRETE MASONRY UNITS (CMU) SHALL BE LAID RUNNING BOND U.N.O.
7. REFER TO PLUMBING PLANS FOR LOCATIONS OF FLOOR DRAINS.
8. WHERE ACCESS PANELS ARE SHOWN IN TOILET ROOM CHASES, FINAL LOCATION SHALL BE COORDINATED WITH OTHER TRADES PRIOR TO INSTALLATION.
9. REFER TO ARCHITECTURAL DRAWINGS FOR WALL LOUVER LOCATIONS, SIZES, AND QUANTITIES.
10. FOR CASEWORK, MILLWORK AND TOILET ACCESSORIES, SEE A700 SERIES DRAWINGS.
11. DOOR AND FRAME NUMBERS CORRESPOND TO ROOM NUMBERS. WHERE MORE THAN ONE DOOR COULDBE IN A ROOM, A SUFFIX HAS BEEN ADDED (I.E. A101A). SEE A600 SERIES DRAWINGS FOR DOOR SCHEDULE. ALL DOOR FRAMES SHALL BE 4" MIN. OFF OF FINISH WALLS U.N.O.
12. PROVIDE MISCELLANEOUS SUPPORTS FOR ALL CEILING AND WALL SUPPORTED ITEMS.
13. PROVIDE FIRE RESISTANT TREATED WOOD BLOCKING SUPPORTS IN STUD WALLS AND/OR GROUTED MASONRY CORES AS REQUIRED TO SUPPORT EQUIPMENT/PLUMBING FIXTURES, ETC.
14. ALL WORK IS TO BE COMPLETED IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, ORDINANCES, RULES, & STANDARDS, INCLUDING BUT NOT LIMITED TO THE INDIANA BUILDING CODE, THE INDIANA ACCESSIBILITY CODE, THE INDIANA PLUMBING, MECHANICAL AND ELECTRICAL CODES, THE INDIANA FIRE CODE, THE AMERICANS WITH DISABILITIES ACT (ADA), AND APPLICABLE TRADE STANDARDS. ALL APPLICABLE RULES & REGULATIONS ARE TO BE THE MOST CURRENT ADOPTED EDITIONS.
15. AT BUILDING EXPANSION JOINTS, ALL PARTITIONS, CEILINGS, FLOORS, AND ALL WALL, FLOOR OR CEILING MOUNTED ITEMS SHALL BE ANCHORED TO THE BUILDING STRUCTURE ON ONLY ONE SIDE OF THE EXPANSION JOINTS. CONTRACTOR SHALL COORDINATE CONSTRUCTION OR INSTALLATION OF ALL ITEMS NOTED TO CROSSING JOINTS AND SUCH ITEMS SPANNING ACROSS THE EXPANSION JOINT.
16. ALL SLAB-ON-GRADE CONTROL JOINTS TO BE CLEANED & CAULKED PRIOR TO PLACEMENT OF FLOOR FINISH.
17. PAINT ALL STEEL DOORS AND FRAMES. REFER TO A600 SERIES DRAWINGS FOR PAINT COLOR.
18. ALL GLASS AT INTERIOR DOOR FRAMES, DOOR LITES & WINDOW FRAMES ≤ 10 SQ FT 1/4" CLEAR TEMPERED GLASS UNLESS OTHERWISE NOTED.

KEYED PLAN NOTES

A1 JANITOR'S SINK. (SEE PLUMBING DRAWINGS)
A2 GUSSNECK ABOVE (REFER TO REFLECTED CEILING PLANS).
A3 4" EXTERIOR BUILDING EXPANSION JOINT ASSEMBLY EQUAL TO "DOKOSEAL" BY MAPE-ANTI-MAPE, INC. EXTERIOR WALL JOINT SHALL BE FIRE RESISTANT, MULTI-DIRECTIONAL EXPANSION JOINT SYSTEM WITH FLEXIBLE FOAM BACKER COPING FOR-MAT 2 INCH JOINT STUFFED WITH INSULATION IN VENEER BACKUP WALL.
A4 2" INTERIOR EXPANSION JOINT ASSEMBLY AT CMU WALL EQUAL TO BALCO MODEL FS WD-2 AND WDC-2.
A5 OPERABLE PARTITION WALL, MANUAL OPERATION. SEE X/AXXX.
A6 PRE-MANUFACTURED DISPLAY CASE. SEE DETAIL X/AXXX.
A7 REMOVE PORTION OF EXISTING WALL AS REQUIRED TO TOOTH IN NEW BLOCK TO MATCH EXISTING.
A8 LOCATE 3 ½" METAL STUDS IN BETWEEN EXISTING STEEL FRAMING IN ORDER TO HOLD GYPSUM BOARD FINISH FACE AS CLOSE TO EXISTING AS POSSIBLE.
A9 METAL PAN STAIR SYSTEMS WITH PANTED STEEL HANDRAILS/GUARDRAILS. SEE STAIR SECTIONS FOR MORE INFORMATION.
A10 2" EXPANSION JOINT ASSEMBLY AT FLOOR EQUAL TO BALCO MODEL FXA-X AND XXX-S
A11 CABINET UNIT HEATER – SEE MECHANICAL.
A12 HANDICAP PUSH PAD FOR AUTOMATIC DOOR OPERATION



KEY PLAN

WESTFIELD WASHINGTON SCHOOLS
322 West Main Street
Westfield, Indiana 46074

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ARCHITECTURE • INTERIOR DESIGN
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Main 317.846.8080 • Fax 317.574.8977 • csoarch.com
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PROJECT:
WESTFIELD HIGH SCHOOL CLASSROOM ADDITION
18250 NORTH UNION STREET
Westfield, Indiana 46074

SCOPE DRAWINGS:
These drawings indicate the general scope of work for the project by some of architectural design intent, the dimensioning of the building, and major architectural features and the type of building, but should supplement previous and the type of construction.
The drawings are not necessarily inclusive or complete as need required for full performance and completion of the project indicated on the drawings.
The contractor shall furnish items indicated or prescribed, and the contractor shall furnish all items required for the proper execution and completion of the work.

REVISIONS:

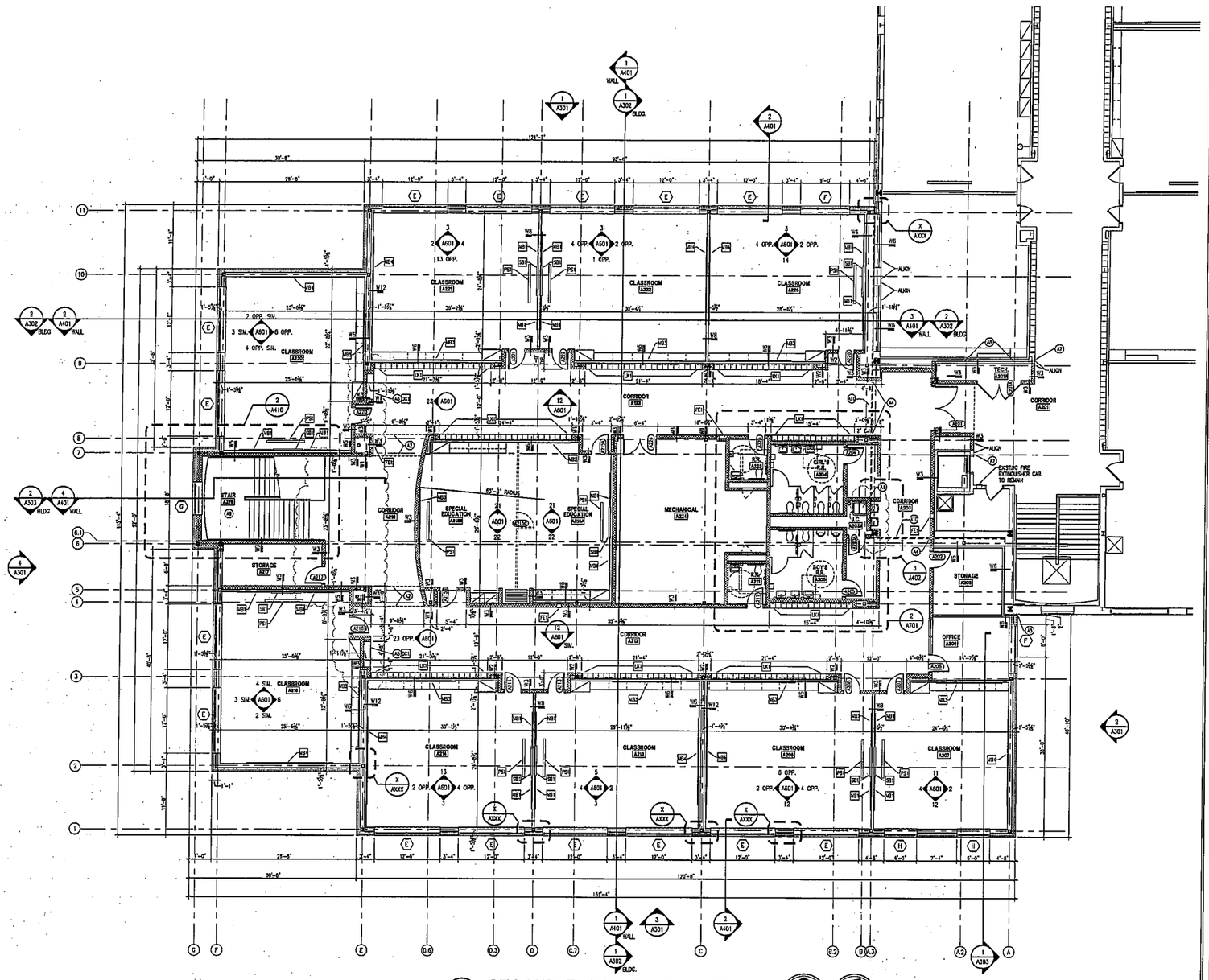
ISSUE DATE	DRAWN BY	CHECKED BY
01-08-08	LTR	JDG

DRAWING TITLE:
FIRST FLOOR PLAN UNIT 'A'

CERTIFIED BY:
NOT FOR CONSTRUCTION

DRAWING NUMBER
A201

PROJECT NUMBER
28059



1 A202 **SECOND FLOOR PLAN - UNIT 'A'**
SCALE: 1/8" = 1'-0"

WALL TYPES

W1	3 5/8" CONCRETE BLOCK WITH HORIZONTAL JOINT REINFORCEMENT @ 16" VERTICALLY. EXTEND BLOCK FULL HEIGHT TO BOTTOM OF DECK.	**W4**	7 5/8" CONCRETE BLOCK WITH HORIZONTAL JOINT REINFORCEMENT @ 16" VERTICALLY WITH ¾" METAL FURRING CHANNELS @ 16" O.C. AND ⅝" G.W.B. ONE SIDE. EXTEND BLOCK FULL HEIGHT TO BOTTOM OF DECK. EXTEND FURRING AND G.W.B. TO 6" ABOVE FINISHED CEILING PLANE.	**W7**	3 5/8" 20 GAUGE STEEL STUDS @ 16" O.C. EXTENDING TO BOTTOM OF DECK ABOVE. PROVIDE DEFLECTION TRACK AT BOTTOM OF DECK TO ALLOW FOR DEFLECTION OF DECK ABOVE. 5/8" G.W.B. ON BOTH SIDES OF STUD, TAPED & FINISHED, AND SOUND ATTENUATION BLANKETS EXTENDING TO WITHIN 1" OF BOTTOM OF DECK ABOVE.	**W10**	2 1/2" 20 GAUGE STEEL STUDS @ 16" O.C. EXTENDING TO BOTTOM OF DECK ABOVE. PROVIDE DEFLECTION TRACK AT BOTTOM OF DECK TO ALLOW FOR DEFLECTION OF DECK ABOVE. 5/8" G.W.B. ON ONE SIDE OF STUD, TAPED & FINISHED EXTENDING TO WITHIN 1" OF DECK ABOVE.		
W2	5 5/8" CONCRETE BLOCK WITH HORIZONTAL JOINT REINFORCEMENT @ 16" VERTICALLY. EXTEND BLOCK FULL HEIGHT TO BOTTOM OF DECK.	**W5**	7 5/8" CONCRETE BLOCK WITH HORIZONTAL JOINT REINFORCEMENT @ 16" VERTICALLY WITH 1" AIRSPACE AND 3 3/8" 20 GAUGE STEEL STUDS @ 16" O.C. WITH ⅝" G.W.B. ONE SIDE. EXTEND BLOCK FULL HEIGHT TO BOTTOM OF DECK. EXTEND STUDS AND G.W.B. TO 6" ABOVE FINISHED CEILING PLANE.	**W8**	3 5/8" 20 GAUGE STEEL STUDS @ 16" O.C. EXTENDING TO BOTTOM OF DECK ABOVE. PROVIDE DEFLECTION TRACK AT BOTTOM OF DECK TO ALLOW FOR DEFLECTION OF DECK ABOVE. 2 LAYERS 5/8" G.W.B. ON BOTH SIDES OF STUD, TAPED & FINISHED, AND SOUND ATTENUATION BLANKETS EXTENDING TO WITHIN 1" OF BOTTOM OF DECK ABOVE.	**W11**	6" 20 GAUGE STEEL STUDS @ 16" O.C. EXTENDING TO BOTTOM OF DECK ABOVE. PROVIDE DEFLECTION TRACK AT BOTTOM OF DECK TO ALLOW FOR DEFLECTION OF DECK ABOVE. 5/8" G.W.B. ON BOTH SIDES OF STUD, TAPED & FINISHED, AND SOUND ATTENUATION BLANKETS EXTENDING TO WITHIN 1" OF DECK ABOVE.		
W3	7 5/8" CONCRETE BLOCK WITH HORIZONTAL JOINT REINFORCEMENT @ 16" VERTICALLY. EXTEND BLOCK FULL HEIGHT TO BOTTOM OF DECK.	**W6**	3 5/8" 20 GAUGE STEEL STUDS @ 16" O.C. EXTENDING TO BOTTOM OF DECK ABOVE. PROVIDE DEFLECTION TRACK AT BOTTOM OF DECK TO ALLOW FOR DEFLECTION OF DECK ABOVE. 5/8" G.W.B. ON ONE SIDE OF STUD, TAPED & FINISHED EXTENDING TO WITHIN 1" OF DECK ABOVE.	**W9**	¾" METAL FURRING CHANNELS @ 16" O.C. AND ⅝" G.W.B. OVER EXISTING WALL CONSTRUCTION. EXTEND FURRING AND G.W.B. TO 6" ABOVE FINISHED CEILING PLANE.	**W12**	3 ⅝" 20 GAUGE STEEL STUDS @ 16" O.C. EXTENDING TO BOTTOM OF DECK ABOVE. PROVIDE DEFLECTION TRACK AT BOTTOM OF DECK TO ALLOW FOR DEFLECTION OF DECK ABOVE. 2 LAYERS OF 5/8" G.W.B. ON ONE SIDE OF STUD, TAPED & FINISHED, AND SOUND ATTENUATION BLANKETS EXTENDING TO WITHIN 1" OF DECK ABOVE.		

GENERAL NOTES

1. COORDINATE THE WORK OF EACH TRADE WITH THE WORK OF ALL OTHER TRADES.
2. ALL DIMENSIONS ARE FROM FACE OF BLOCK OR FACE OF GYPSUM BOARD. ANY DIMENSIONS NOT SHOWN OR DEEMED QUESTIONABLE ARE TO BE VERIFIED WITH THE ARCHITECT. DO NOT SCALE FROM THE DRAWINGS.
3. REFER TO WALL TYPES SCHEDULE ON SHEETS A001 AND A002 TO DETERMINE WHICH WALLS EXTEND TO DECK. SEE STRUCTURAL FOR TOP SUPPORT DETAIL. WHERE MESH, STUDS EXTEND TO DECK, PROVIDE SLIP CONNECTIONS FOR ROOF/FLOOR DEFLECTION. STEEL STUD AND G.W.B PARTITIONS THAT DO NOT EXTEND TO ROOF OR FLOOR DECK ARE TO BE BRACED TO STRUCTURE. REFER TO STRUCTURAL, REFER TO REFLECTED CEILING PLANS FOR FIRE-RATING REQUIREMENTS OF INTERIOR PARTITIONS.
4. ALL STEEL STUDS ARE TO BE SPACED ACCORDING TO MANUFACTURER'S(ART 10C07D/2146).
5. WHERE INSULATED OR SOUND WALLS EXTEND TO DECK, FILL DECK FLUTES WITH INSULATION/SOUND ATTENUATION.
6. ALL CONCRETE MASONRY UNITS (CMU) SHALL BE LAID RUNNING BOND U.N.O.
7. REFER TO PLUMBING PLANS FOR LOCATIONS OF FLOOR DRAINS.
8. WHERE ACCESS PANELS ARE SHOWN IN TOILET ROOM CHASES, FINAL LOCATION SHALL BE COORDINATED WITH OTHER TRADES PRIOR TO INSTALLATION.
9. REFER TO ARCHITECTURAL DRAWINGS FOR WALL LOUVER LOCATIONS, SIZES, AND QUANTITIES.
10. FOR CASEWORK, MILLWORK AND TOILET ACCESSORIES, SEE A700 SERIES DRAWINGS.
11. DOOR AND FRAME NUMBERS CORRESPOND TO ROOM NUMBERS. WHERE MORE THAN ONE DOOR OCCURS IN A ROOM, A SUFFIX HAS BEEN ADDED (I.E. 411214). SEE A600 SERIES DRAWINGS FOR DOOR SCHEDULE. ALL DOOR FRAMES SHALL BE 4" MIN. OFF OF FINISH WALLS U.N.O.
12. PROVIDE MISCELLANEOUS SUPPORTS FOR ALL COLUMS AND WALL SUPPORTED ITEMS.
13. PROVIDE FIRE RESISTANT TREATED WOOD BLOCKING SUPPORTS IN STUD WALLS AND/OR GROUTED MASONRY CORES AS REQUIRED TO SUPPORT EQUIPMENT/PLUMBING FIXTURES, ETC.
14. ALL WORK IS TO BE COMPLETED IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, ORDINANCES, RULES, & STANDARDS, INCLUDING BUT NOT LIMITED TO THE INDIANA BUILDING CODE, THE INDIANA ACCESSIBILITY CODE, THE INDIANA PLUMBING, MECHANICAL AND ELECTRICAL CODES, THE INDIANA FIRE CODE, THE AMERICANS WITH DISABILITIES ACT (ADA), AND APPLICABLE STATE STANDARDS. ALL APPLICABLE RULES & REGULATIONS ARE TO BE THE MOST CURRENT ADOPTED EDITIONS.
15. AT BUILDING EXPANSION JOINTS, ALL PARTITIONS, CEILINGS, FLOORS, AND ALL WALL, FLOOR OR CEILING MOUNTED ITEMS SHALL BE ANCHORED TO THE BUILDING STRUCTURE ON ONLY ONE SIDE OF THE EXPANSION JOINTS. CONTRACTOR SHALL COORDINATE CONSTRUCTION OR INSTALLATION OF ALL ITEMS NOTED TO ENSURE THAT NO SUCH ITEMS BRIDGE ACROSS THE EXPANSION JOINT.
16. ALL SLAB-ON-GRADE CONTROL JOINTS TO BE CLEANED & CAULKED PRIOR TO PLACEMENT OF FLOOR FINISH.
17. PAINT ALL STEEL DOORS AND FRAMES. REFER TO A800 SERIES DRAWINGS FOR PAINT COLOR.
18. ALL GLASS AT INTERIOR DOOR FRAMES, DOOR LITES & WINDOW FRAMES IS TO BE 1/4" CLEAR TEMPERED GLASS UNLESS OTHERWISE NOTED.

KEYED PLAN NOTES

A1 JANITOR'S SINK. (SEE PLUMBING DRAWINGS)
A2 BULKHEAD ABOVE (REFER TO REFLECTED CEILING PLANS).
A3 ½" EXTERIOR BUILDING EXPANSION JOINT ASSEMBLY EQUAL TO "COLORSEAL" BY SIKA CORPORATION. PROVIDE 2 INCH JOINT SEALED WITH SIKA COLORSEAL SEALANT. INSTALLATION AS PER MANUFACTURER'S SPECIFICATIONS. PROVIDE FIRE RATED JOINT SYSTEM EQUAL TO "FIRESTOP" BY 3M CORPORATION IN CEILING. PROVIDE 2 INCH JOINT SEALED WITH INSULATION IN RENDER GROUND WALL.
A4 ½" INTERIOR EXPANSION JOINT ASSEMBLY AT CMU WALL EQUAL TO BALCO MODEL #'S WS-2 AND WDC-2.
A5 OPERABLE PARTITION WALL. MANUAL OPERATION. SEE 3/A3XX.
A6 PRE-MANUFACTURED DISPLAY CASE. SEE DETAIL 3/A3XX.
A7 REMOVE PORTION OF EXISTING WALL AS REQUIRED TO TOOTH IN NEW BLOCK TO MATCH EXISTING.
A8 LOCATE 3 ⅝" METAL STUDS IN BETWEEN EXISTING STEEL BRACING IN DOOR TO ADD GYPSUM BOARD FINISH FACE AS CLOSE TO BRACING AS POSSIBLE.
A9 METAL FIRE STAIR SYSTEMS WITH CONCRETE STEEL HANDRAILS/GUARDRAILS. SEE STAIR SECTIONS FOR MORE INFORMATION.
A10 ½" EXPANSION JOINT ASSEMBLY AT FLOOR EQUAL TO BALCO MODEL #EX-X AND XXX-2
A11 CABINET UNIT HEATER – SEE MECHANICAL.
A12 HANDICAP PUSH PAD FOR AUTOMATIC DOOR OPERATION

KEY PLAN

WESTFIELD WASHINGTON SCHOOLS
322 West Main Street
Westfield, Indiana 46074

CSO Architects
ARCHITECTURE • INTERIOR DESIGN
200 East 96th Street, Suite 300 - Indianapolis, Indiana 46240
Main 317.848.8300 - Fax 317.574.0097 - csoarchitect.com

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PROJECT:
WESTFIELD HIGH SCHOOL CLASSROOM ADDITION
18250 NORTH UNION STREET
Westfield, Indiana 46074

SCOPE DRAWINGS:
These drawings provide an overall scope of the project to facilitate preliminary design. However, the dimensions of existing conditions, structural, mechanical, electrical and fire life safety, are shown in an approximate manner and are not to be used for construction purposes.
The architect, do not assume any liability or responsibility resulting from misinterpretation and interpretation of the information shown on these drawings.
On the basis of the above, contractor understand and proceed that thorough investigation shall further be required for the proper execution and completion of the work.

REVISIONS:

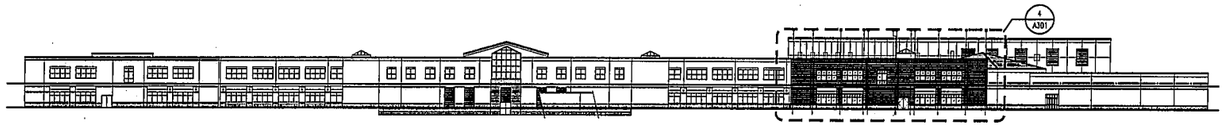
ISSUE DATE	DRAWN BY	CHECKED BY
01-09-08	LTR	JDO

DRAWING TITLE:
SECOND FLOOR PLAN UNIT 'A'

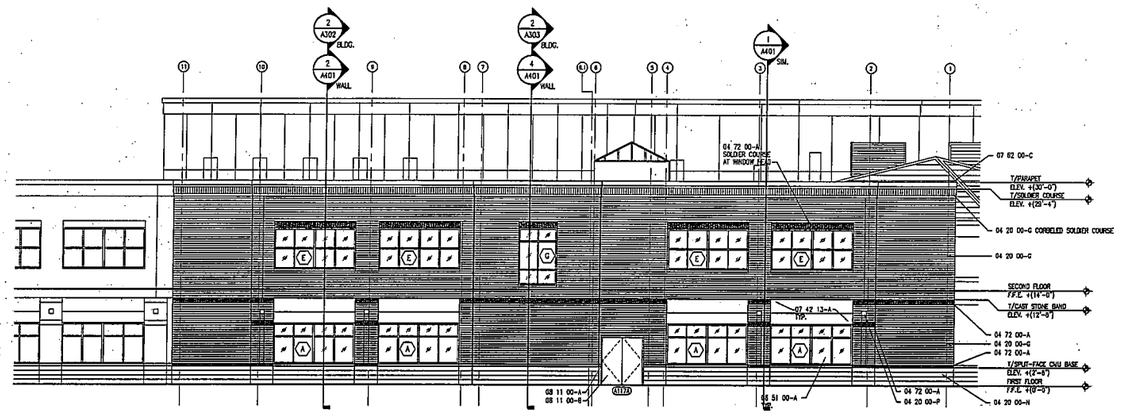
CERTIFIED BY:
NOT FOR CONSTRUCTION

DRAWING NUMBER
A202

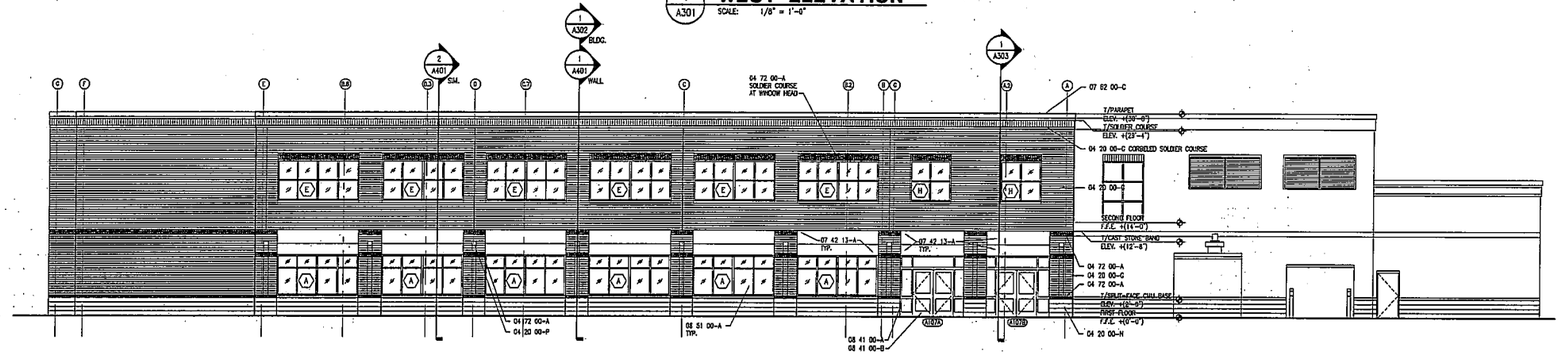
PROJECT NUMBER
28059



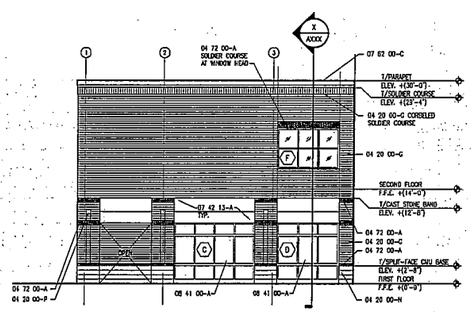
5 A301 **OVERALL WEST ELEVATION**
SCALE: 1/32" = 1'-0"



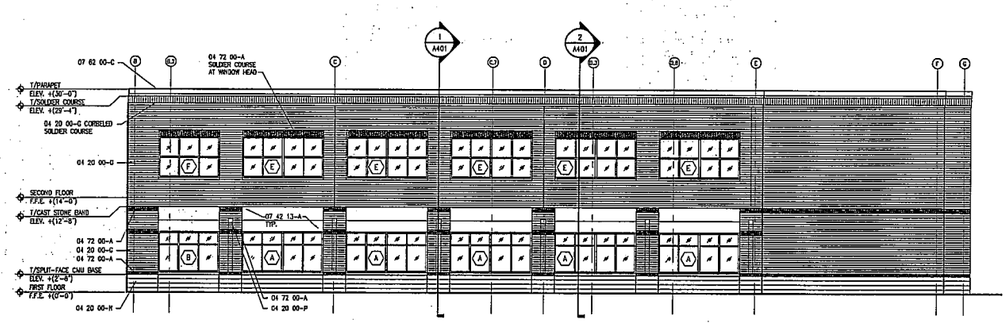
4 A301 **WEST ELEVATION**
SCALE: 1/8" = 1'-0"



3 A301 **SOUTH ELEVATION**
SCALE: 1/8" = 1'-0"



2 A301 **EAST ELEVATION**
SCALE: 1/8" = 1'-0"



1 A301 **NORTH ELEVATION**
SCALE: 1/8" = 1'-0"

KEYNOTES

DIVISION 1 – GENERAL REQUIREMENTS

THESE KEYNOTES ARE ORGANIZED BASED UPON THE CONSTRUCTION SPECIFICATIONS INSTITUTE'S MASTERFORMAT 2004 EDITION. THE ORGANIZATION OF THESE NOTES AND DIVISIONS CONFORMS IN GENERAL WITH THE PROJECT MANUAL PREPARED FOR THIS PROJECT. REFER TO SHEET A000 FOR ASSIGNMENT OF KEYNOTES TO SPECIFICATION SECTIONS.

DIVISION 2 – SITE CIVIL (RELEVANT)
02 00 00-A FINISHED GRADE – MINIMUM 4 INCHES BELOW FINISHED FLOOR (SEE DIVISION 31)
02 00 00-B CONCRETE STOOP/SIDEWALK (SEE DIVISION 32)

DIVISION 3 – CONCRETE
03 30 00-A WALKSTOP
03 30 00-B CONCRETE SLAB-ON-GRADE ON VAPOR BARRIER OVER COMPACTED GRANULAR FILL
03 30 00-C COMPOSITE CONCRETE SLAB
03 30 00-D CONCRETE HOUSEKEEPING PAD
03 30 00-E CONCRETE FOOTER

DIVISION 4 – MASONRY
04 20 00-A JOINT REINFORCEMENT AT 16" O.C. VERTICALLY
04 20 00-B MASONRY TIE
04 20 00-C VERTICAL MASONRY CONTROL JOINT
04 20 00-D THROUGH-WALL FLASHING W/ WEEPHOLES
04 20 00-E MORTAR NET
04 20 00-F FLASHING & COUNTER FLASHING
04 20 00-G BRICK MASONRY – BRICK TYPE 1 – FIELD BRICK
04 20 00-H BRICK MASONRY – BRICK TYPE 2 – SPECIAL SHAPE BRICK SILL TO MATCH FIELD BRICK
04 20 00-J CONCRETE MASONRY UNIT
04 20 00-K CONCRETE MASONRY LINTEL
04 20 00-L BOND BEAM MASONRY UNIT
04 20 00-M SOLID UNIT
04 20 00-N SPLIT-FACE CONCRETE MASONRY UNIT
04 20 00-P GLAZED CONCRETE MASONRY ACCENT UNIT
04 72 00-A CAST STONE ACCENT PIECES TO MATCH EXISTING BROOK FACE BRICK UNITS

DIVISION 5 – METALS
05 12 00-A STRUCTURAL STEEL FRAMING MEMBER – SEE STRUCTURAL
05 12 00-B STEEL ANGLE – SEE STRUCTURAL
05 12 00-C STEEL CHANNEL – SEE STRUCTURAL
05 12 00-D STEEL PLATE – SEE STRUCTURAL
05 12 00-E STEEL BENT PLATE – SEE STRUCTURAL
05 12 00-F STEEL TUBE – SEE STRUCTURAL
05 12 00-G MISCELLANEOUS STEEL
05 21 00-A STEEL JOIST – SEE STRUCTURAL
05 31 00-A STEEL ROOF DECKING – SEE STRUCTURAL
05 31 00-B STEEL FLOOR DECKING – SEE STRUCTURAL
05 40 00-A 3⅝" 18 GA. STEEL STUDS AT 16" O.C., CROSS BRACING AS REQUIRED.
05 40 00-B 6" 18 GA. STEEL STUDS AT 16" O.C., CROSS BRACING AS REQUIRED.
05 40 00-C 8" 18 GA. STEEL STUDS AT 16" O.C., CROSS BRACING AS REQUIRED.
05 40 00-D DEFLECTION TRACK
05 40 00-E CLIP ANGLE
05 50 00-A SHIP'S LADDER
05 51 00-A STEEL TUBE STRINGER
05 51 00-B PAN TREAD
05 51 00-C GRADE METAL RISER
05 51 00-D STAIR NOSING
05 52 13-A PAINTED HANDRAIL TO MATCH EXISTING

DIVISION 6 – WOOD AND PLASTICS
06 10 00-A WOOD BLOCKING – NOMINAL 2 INCH THICKNESS
06 10 00-B WOOD BLOCKING – NOMINAL 1 INCH THICKNESS
06 10 00-C ¾" EXTERIOR GRADE PLYWOOD
06 10 00-D ½" EXTERIOR GRADE PLYWOOD
06 10 00-E ¾" EXTERIOR GRADE PLYWOOD
06 16 13-A ½" EXTERIOR GYPSUM SHEATHING
06 40 00-A ARCHITECTURAL MILLWORK
06 40 00-B PLASTIC LAMINATE COUNTERTOP

DIVISION 7 – THERMAL AND MOISTURE PROTECTION
07 21 00-A 2" PERIMETER BOARD INSULATION, EXTENDING HORIZONTALLY MINIMUM 48 INCHES
07 21 00-B 2" CAVITY WALL EXTRUDED BOARD INSULATION
07 21 00-C 1½" EXTRUDED BOARD INSULATION
07 21 00-D BATT INSULATION
07 21 00-E BATT WALL
07 21 00-F MINERAL WOOL
07 21 00-G FOAMED-IN-PLACE INSULATION
07 24 13-A DIRECT APPLY UNMODIFIED SANDY SYSTEM OVER 5/8" EXTERIOR GYPSUM SHEATHING (04 16 42-A)
07 27 26-A AIR AND VAPOR INFILTRATION BARRIER
07 42 13-A COMPOSITE METAL WALL PANEL – COLOR TO MATCH EXISTING
07 42 13-B MISCELLANEOUS METAL TRIM PIECES
07 42 13-C 2" EIS CHANNEL
07 53 23-A FULLY ADHERED EPDM MEMBRANE ROOFING SYSTEM
07 53 23-B ROOF INSULATION, MIN. THICKNESS =0"
07 53 23-C TAPERED ROOF INSULATION
07 53 23-D INSULATION CRICKET
07 53 23-E TERMINATION BAR AND COUNTER FLASHING
07 62 00-A SHEET METAL FLASHING
07 62 00-B SHEET METAL TRIM
07 62 00-C SHEET METAL COPING
07 62 00-D SHEET METAL GRAVEL STOP
07 62 00-E SHEET METAL FASCIA
07 62 00-F SHEET METAL GUTTER
07 62 00-G SHEET METAL DOWNSPOUT – 3" x 5"
07 62 00-H SHEET METAL SOFFIT
07 71 29-A ROOF EXPANSION JOINT ASSEMBLY – 2 INCH
07 84 00-A FIRE RESISTIVE JOINT SYSTEM
07 92 00-A BACKER ROD AND SEALANT
07 92 00-B SEALANT
07 92 00-C 2 INCH WIDE EXTERIOR EXPANSION JOINT ASSEMBLY
07 95 13-A INTERIOR FLOOR EXPANSION JOINT ASSEMBLY
07 95 13-B INTERIOR WALL EXPANSION JOINT ASSEMBLY
07 95 13-C INTERIOR CEILING EXPANSION JOINT ASSEMBLY
07 95 13-D INTERIOR FLOOR TO WALL EXPANSION JOINT ASSEMBLY
07 95 13-E INTERIOR WALL EXPANSION JOINT ASSEMBLY, INSIDE CORNER
07 95 13-F INTERIOR CEILING TO WALL EXPANSION JOINT ASSEMBLY
07 95 13-G EXTERIOR ROOF EXPANSION JOINT ASSEMBLY

DIVISION 8 – DOORS AND WINDOWS
08 11 00-A HOLLOW METAL DOOR FRAME
08 11 00-B HOLLOW METAL DOOR
08 14 00-A FLUSH WOOD DOOR
08 41 00-A ALUMINUM-FRAMED ENTRANCES & STOREFRONT – 4 1/2" DEEP SYSTEM
08 41 00-B ALUMINUM MUL STILE DOOR
08 41 00-C ALUMINUM CLOSURE PIECE
08 51 00-A ALUMINUM WINDOW
08 51 00-B ALUMINUM EXTERIOR WINDOW SILL
08 80 00-A ¼" CLEAR TEMPERED GLASS
08 80 00-B 1" INSULATED GLASS – TINTED AND TEMPERED WITH LOW E COATING
08 90 00-A FIXED LOUVER WITH BIRD SCREEN

DIVISION 9 – FINISHES
09 21 00-A ⅝" TYPE X GYPSUM BOARD
09 21 00-B ⅝" MOLDER-RESISTANT GYPSUM WALLBOARD
09 21 00-C ⅝" MOLDER-RESISTANT GYPSUM WALLBOARD
09 21 00-D ⅝" TILE BACKING BOARDS
09 21 00-E WALLBOARD CONTROL JOINT
09 21 00-F ⅝" 20 GA. STEEL STUD
09 21 00-G 3⅝ 20 GA. STEEL STUD
09 21 00-H 3⅝" 20 GA. STEEL STUD
09 21 00-J 8" 20 GA. STEEL STUD
09 21 00-K DEFLECTION TRACK
09 21 00-L 2 FURRING CHANNEL
09 21 00-M ¾" FURRING CHANNEL
09 21 00-N 7/8" FURRING CHANNEL
09 21 00-P MOVABLE SUSPENDED CEILING AND GRIDS FRAMING SYSTEM
09 21 00-Q 5/8" W-MOIST GYPSUM WALLBOARD
09 21 00-R SOUND ATTENUATION BLANKETS
09 30 00-A GYPSUM CEILING PANEL
09 50 00-B ACOUSTICAL CEILING SUSPENSION ASSEMBLY
09 50 00-C ACOUSTICAL CEILING EXPANDED ALUMINUM PERIMETER EDGE TRIM – 4" HIGH
09 65 00-A RESILIENT BASE
09 65 00-B RESILIENT FLOOR TILE
09 65 00-C RESILIENT STAIR TREADS AND RISERS
09 97 00-A HIGH PERFORMANCE COATING – AQUATIC POLYURETHANE

DIVISION 10 – SPECIALTIES
10 11 00-A VISUAL DISPLAY SURFACE
10 12 00-A MANUFACTURED DISPLAY CASE UNIT
10 22 00-A OPERABLE PANEL PARTITION
10 31 00-A LOCKER

DIVISION 11 – EQUIPMENT
11 52 00-A CEILING MOUNTED PROJECTION SCREEN

DIVISION 12 – FURNISHINGS
12 32 00-A PORTFOLIO CABINWORK

DIVISION 13 – SPECIAL CONSTRUCTION
NOT USED

DIVISION 14 – CONVEYING SYSTEMS
NOT USED

DIVISION 15 – PLUMBING
15 00 00-A ROOF DRAIN
15 00 00-B PLUMBING FIXTURE – SEE PLUMBING SHEETS

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PROJECT:
WESTFIELD HIGH SCHOOL CLASSROOM ADDITION
18250 NORTH UNION STREET
Westfield, Indiana 46074

SCOPE DRAWINGS:
These drawings indicate the general scope of work required to achieve a complete and functional addition to the existing building. We show architectural elements and the type of structure, mechanical and electrical systems.
The drawings do not necessarily include or describe all items required for a complete installation or all components of the construction.
On the basis of the general scope indicated or described, the contractor is responsible for all labor and materials for the proper execution and completion of the work.

REVISIONS:

ISSUE DATE	DRAWN BY	CHECKED BY
01-05-08	LTR	JDO

DRAWING TITLE:
EXTERIOR BUILDING ELEVATIONS

CERTIFIED BY:
NOT FOR CONSTRUCTION

DRAWING NUMBER
A301

PROJECT NUMBER
28059