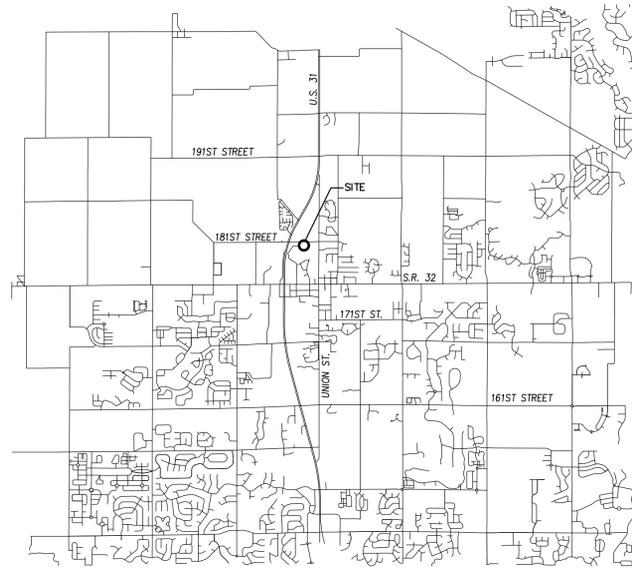


SITE CONSTRUCTION PLANS FOR: WESTFIELD-WASHINGTON PUBLIC LIBRARY BUILDING ADDITION

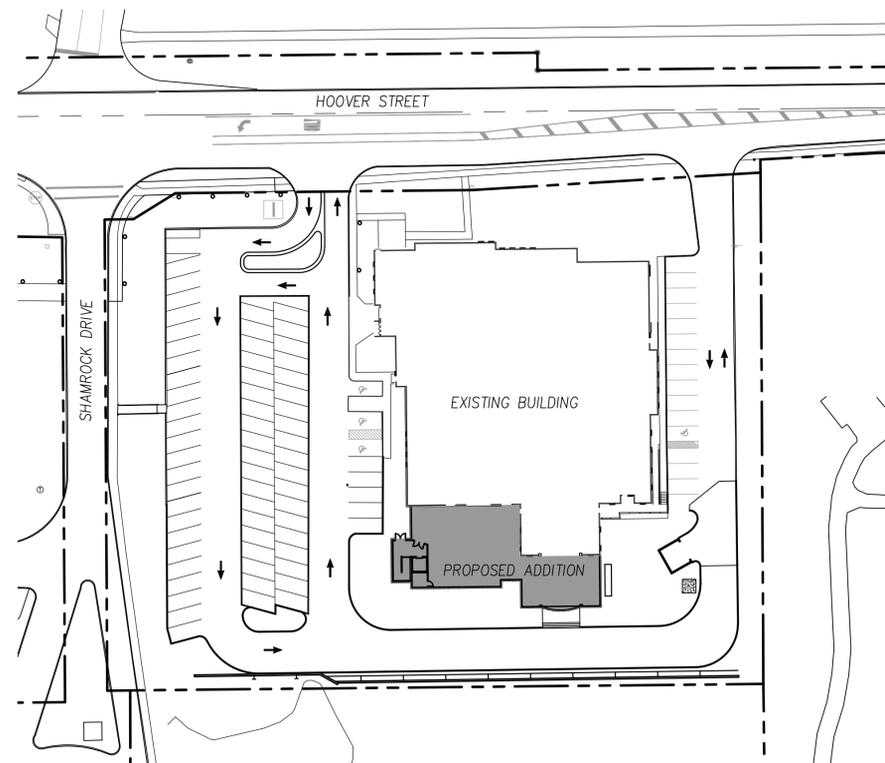
333 HOOVER STREET
WESTFIELD, INDIANA



LOCATION MAP



VICINITY MAP



THE LATEST EDITION OF THE FOLLOWING STANDARDS/
SPECIFICATIONS ARE TO BE UTILIZED IN THESE PLANS,
THE INDIANA DEPARTMENT OF TRANSPORTATION (INDOT)
AND THE CITY OF WESTFIELD TECHNICAL STANDARDS,
LATEST EDITION, FOR ALL MATERIALS, EQUIPMENT,
STRUCTURES AND INSTALLATIONS.

OPERATING AUTHORITY:

CITY OF WESTFIELD
PUBLIC WORKS DEPARTMENT
2728 EAST 171ST STREET
WESTFIELD, IN 46074
(317) 867-1116

INDEX TO DRAWINGS	
NO.	DESCRIPTION
C0.1	SITE COVER SHEET
1 OF 1	TOPOGRAPHIC SURVEY (EXISTING CONDITIONS)
C1.1	EXISTING CONDITIONS
C1.2	SITE DEMOLITION PLAN
C2.1	SITE PLAN
C3.1	GRADING AND DRAINAGE PLAN
C3.2	STORM WATER POLLUTION PREVENTION PLAN
C3.3	STORM WATER POLLUTION PREVENTION DETAILS
C4.1	UTILITY PLAN
C5.1	LANDSCAPE PLAN
C6.1	SITE CONSTRUCTION DETAILS
C6.2	SITE CONSTRUCTION DETAILS
C6.3	SITE CONSTRUCTION DETAILS

REVISIONS		
DATE	DESCRIPTION	BY

**SNELLING
ENGINEERING, LLC**
13,295 Illinois Street
Suite 142
Carmel, IN 46032
Ph: (317) 663-3206
Fax: (317) 663-3208
www.snellingeng.com

REVISIONS

PROJECT No.
120021

DATE
08/31/12

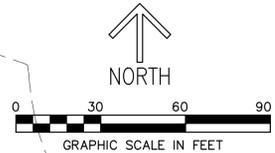
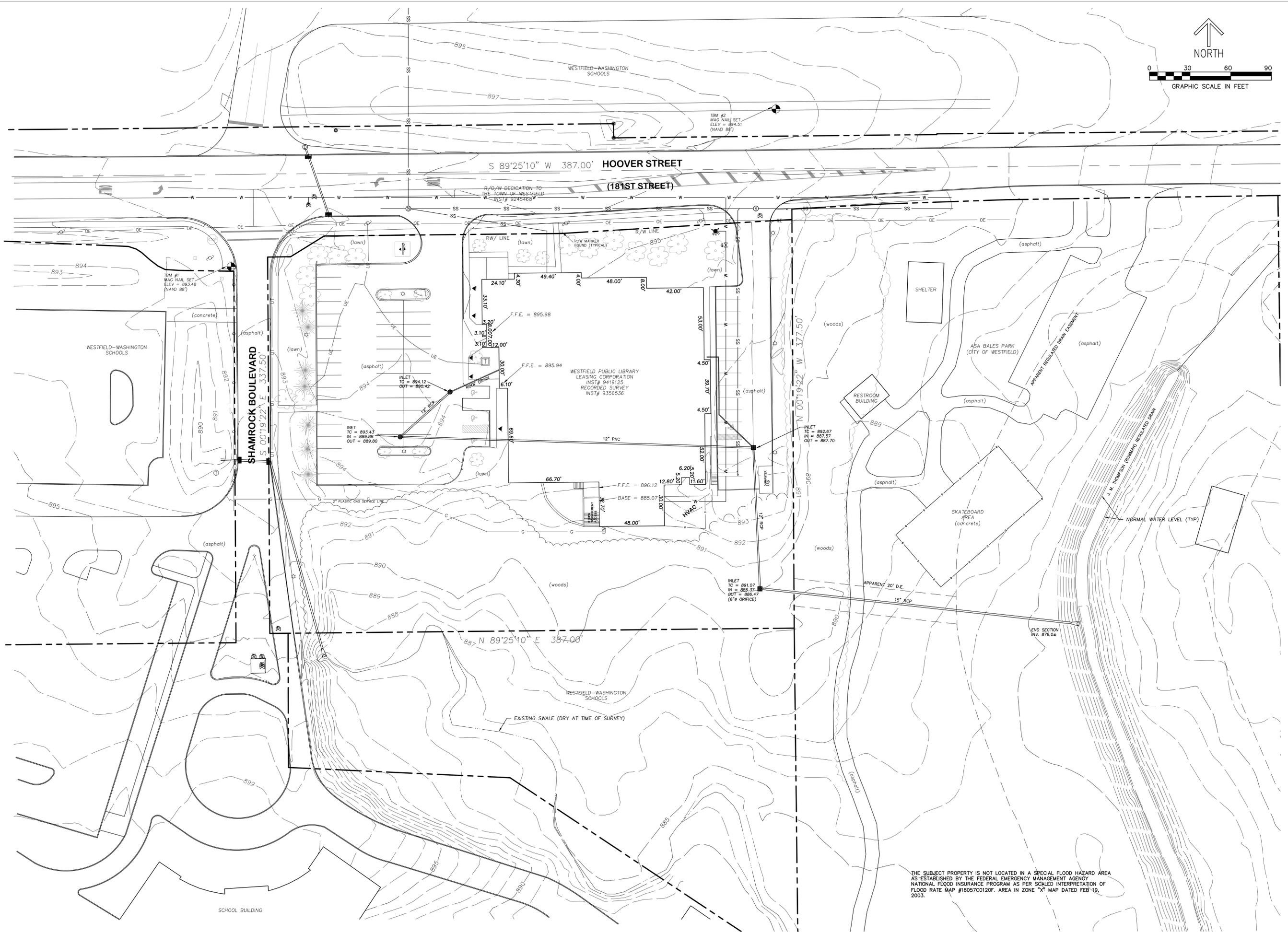
DRAWN BY
GSS

CHECKED BY
GSS

**WESTFIELD-WASHINGTON PUBLIC LIBRARY
BUILDING ADDITION
333 WEST HOOVER STREET
WESTFIELD, INDIANA
TITLE SHEET**

SHEET NO.

C0.1



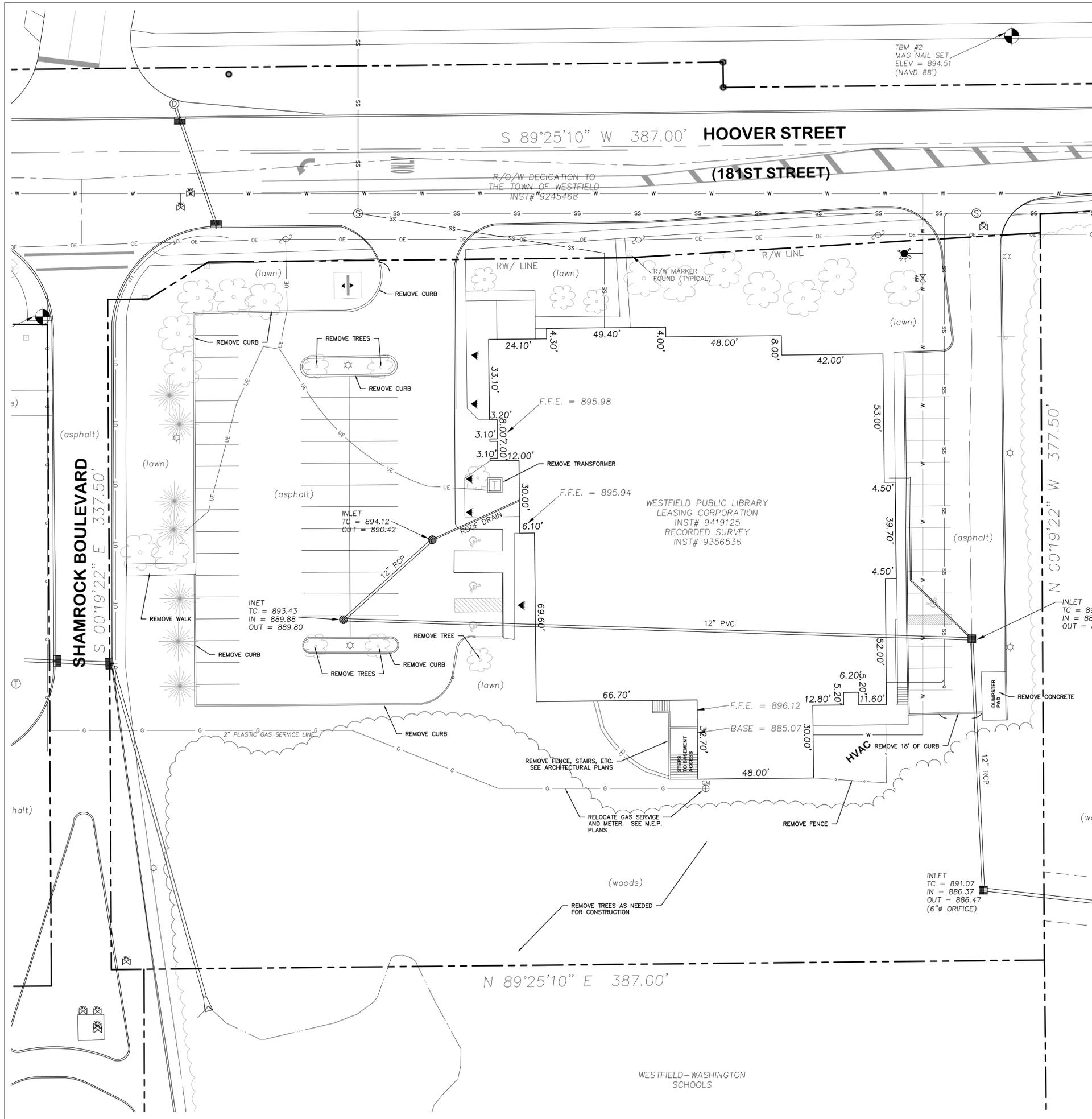
SNELLING ENGINEERING, LLC
 13295 Illinois Street
 Suite 142
 Carmel, IN 46032
 Ph: (317) 663-3206
 Fax: (317) 663-3208
 www.snellingeng.com

REVISIONS	
PROJECT No.	120021
DATE	08/31/12
DRAWN BY	GSS
CHECKED BY	GSS

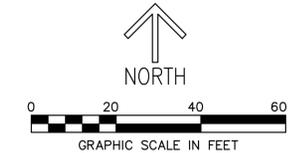
**WESTFIELD-WASHINGTON PUBLIC LIBRARY
 BUILDING ADDITION
 333 WEST HOOVER STREET
 WESTFIELD, INDIANA
 EXISTING CONDITIONS**

SHEET NO.
C1.1

THE SUBJECT PROPERTY IS NOT LOCATED IN A SPECIAL FLOOD HAZARD AREA AS ESTABLISHED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY NATIONAL FLOOD INSURANCE PROGRAM AS PER SCALED INTERPRETATION OF FLOOD RATE MAP #18057C0120F. AREA IN ZONE "X" MAP DATED FEB 19, 2003.



TBM #2
MAG NAIL SET
ELEV = 894.51
(NAVD 88')



LEGEND

— G —	UNDERGROUND GAS LINE	⊗	FIRE HYDRANT
— W —	UNDERGROUND WATER LINE	⊕	POST INDICATOR VALVE
— UT —	UNDERGROUND TELEPHONE LINE	⊗	SIAMESE CONNECTION
— UF —	UNDERGROUND FIBER OPTIC LINE	⊗	WATER VALVE
— UC —	UNDERGROUND CABLE TV	⊗	WATER METER
— UE —	UNDERGROUND ELECTRIC	⊗	WATER METER PIT / VAULT
— OE —	OVERHEAD ELECTRIC	⊗	SANITARY SEWER MANHOLE
— OT —	OVERHEAD TELEPHONE	⊗	CURB INLET
— OC —	OVERHEAD CABLE TV	⊗	SQUARE STORM INLET
— x —	CHAIN LINK FENCE	⊗	STORM MANHOLE
— + —	WIRE / BARB WIRE FENCE	⊗	UTILITY POLE
— o —	WOOD RAIL / PRIVACY FENCE	⊗	GUY ANCHOR
— > o —	SWALE / FLOWLINE	⊗	LIGHT POLE
⊗	CABLE TV PEDESTAL	⊗	SIGN
⊗	ELECTRIC PEDESTAL	⊗	FLAG POLE
⊗	ELECTRIC METER	⊗	BM / TBM
⊗	TRANSFORMER	⊗	R/W MARKER
⊗	ELECTRIC MANHOLE		
⊗	GAS METER		
⊗	GAS VALVE		

DEMOLITION GENERAL NOTES

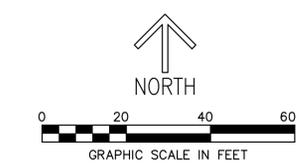
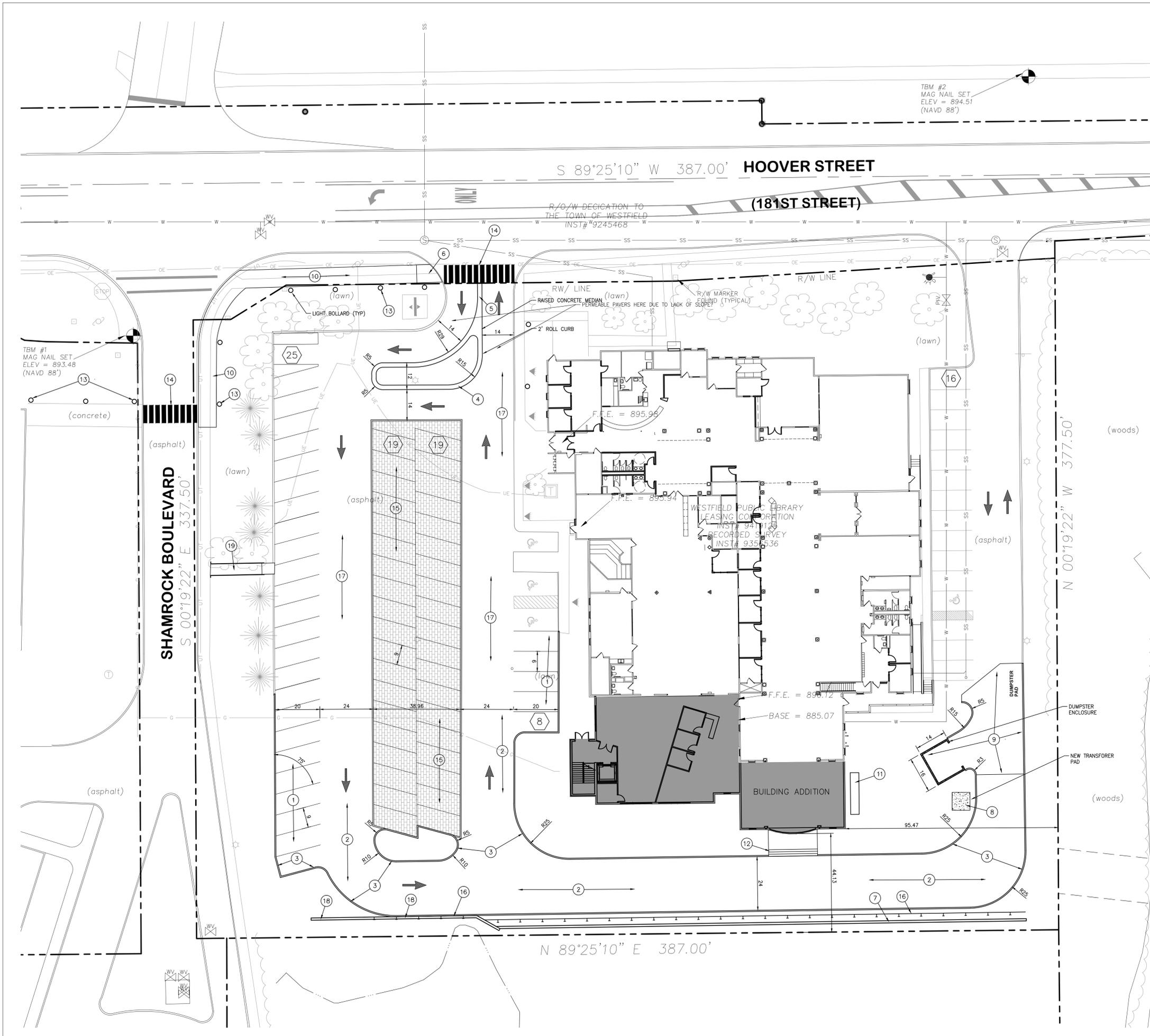
- EXISTING UNDERGROUND UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS ACCORDING TO THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF THE EXISTING UTILITIES AND REPAIRING ANY DAMAGE DONE TO THE UTILITIES DURING PROBING OR CONSTRUCTION. TO OBTAIN FIELD LOCATIONS OF EXISTING UNDERGROUND UTILITIES, CALL INDIANA UNDERGROUND CABLE LOCATION 1-800-382-5544.
- CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES FOR THE RELOCATION OF UTILITIES ON SITE OR CROSSING THE SITE TO SERVICE ADJACENT PROPERTIES. DO NOT INTERRUPT EXISTING UTILITIES SERVING FACILITIES OCCUPIED AND USED BY OWNER OR OTHERS, DURING OCCUPIED HOURS, EXCEPT WHEN PERMITTED BY OTHERS.
- THIS DRAWING IS TO BE USED AS A GENERAL GUIDE ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND DETERMINE THE EXTENT OF ITEMS TO BE REMOVED OR RELOCATED IN ORDER TO COMPLETE THE PROJECT.
- ALL COSTS INCURRED IN COORDINATION OF ALL NEW UTILITY SERVICES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- THE REMOVAL AND DEMOLITION OF EXISTING FACILITIES ARE THE CONTRACTOR'S RESPONSIBILITY.
- EXISTING ITEMS REMOVED FROM THE SITE REQUIRED FOR DEVELOPMENT OF THE PROPERTY SHALL BE DISPOSED OF IN A LEGAL MANNER.
- REMOVAL OF EXISTING CURBS, CONCRETE OR PAVEMENT SHALL INCLUDE ALL AGGREGATE BASE AND SUBGRADE MATERIALS. SAWCUT ALL EXISTING PAVED AREAS BEFORE DEMOLITION & REMOVAL. ALL CUTS SHALL BE CLEAN, NEAT AND TRUE TO LINE. REMOVE ALL NON-ORGANIC OR TOXIC MATTER THAT WOULD INTERFERE WITH PROPOSED PLANT MATERIAL.
- REMOVE ALL MUD, DIRT, GRAVEL, AND MATERIALS TRACKED ONTO ANY PUBLIC OR PRIVATE STREETS OR SIDEWALKS. USE WATER OR OTHER METHODS TO KEEP AIRBORNE DUST TO A REQUIRED MINIMUM.
- THE USE OF EXPLOSIVES IS PROHIBITED.
- ALL EXCAVATION FOR UTILITIES SHALL BE COORDINATED WITH UTILITY COMPANIES.
- ROAD, ROAD SHOULDERS, ROAD PAVEMENT, PARKING PAVEMENT, CURBS, DRIVEWAYS, SIDEWALKS, DITCHES, DRAINAGE PIPES AND STRUCTURES, FENCES, LAWNS, TREES, BUSHES, MAILBOXES, STREET AND PUBLIC SIGNS, ADVERTISEMENT SIGNS, ETC., DAMAGED DURING CONSTRUCTION SHALL BE RESTORED, RECONSTRUCTED, REPLACED, OR PROTECTED BY THE CONTRACTOR AT HIS EXPENSE. ALL DAMAGES TO EXISTING IMPROVEMENTS, EXCAVATION, AND/OR REMOVAL OF ANY AND ALL EXISTING IMPROVEMENTS SHALL BE KEPT TO A MINIMUM AND RESTORED OR REPLACED TO AT LEAST THEIR ORIGINAL CONDITION.
- ALL UNDERGROUND UTILITIES OR STRUCTURES IN PROPOSED PAVEMENT OR BUILDING AREAS REQUIRING REMOVAL SHALL BE BACKFILLED COMPLETELY WITH APPROVED ENGINEERED GRANULAR MATERIAL AS DETERMINED BY SOILS TESTING REPRESENTATIVE RECOMMENDATIONS.
- ALL WELLS ENCOUNTERED ON THE SITE ARE TO BE ABANDONED BY PLUGGING PER CURRENT STATE OF INDIANA AND LOCAL REQUIREMENTS.

SNELLING ENGINEERING, LLC
13,295 Illinois Street
Suite 142
Carmel, IN 46032
Ph: (317) 663-3206
Fax: (317) 663-3208
www.snellingeng.com

REVISIONS	
PROJECT No.	120021
DATE	08/31/12
DRAWN BY	GSS
CHECKED BY	GSS

**WESTFIELD-WASHINGTON PUBLIC LIBRARY
BUILDING ADDITION
333 WEST HOOVER STREET
WESTFIELD, INDIANA
SITE DEMOLITION PLAN**

SHEET NO.
C1.2



KEY NOTES

- ① LIGHT-DUTY ASPHALT PAVEMENT, SEE DETAIL 01/C6.1
- ② HEAVY ASPHALT PAVEMENT, SEE DETAIL 02/C6.1
- ③ 6" STRAIGHT CURB, SEE DETAIL 03/C6.1
- ④ 24" ROLL CURB, SEE DETAIL 04/C6.1
- ⑤ RAISED MEDIAN, CONCRETE, SEE DETAIL 05/C6.1
- ⑥ CURB RAMP TYPE 'G', SEE DETAIL 06/C6.1
- ⑦ TRANSFORMER PAD, DUKE ENERGY STANDARD, SEE ELECTRICAL SITE PLAN
- ⑧ RETAINING WALL, VERSA-LOK COBBLE OR APPROVED EQUAL
- ⑨ 6" CONCRETE SLAB, SEE DETAIL 07/C6.1
- ⑩ 4" CONCRETE SLAB, SEE DETAIL 08/C6.1
- ⑪ CHILLER UNITS, SEE MECHANICAL PLANS
- ⑫ CONCRETE STAIRS, SEE ARCHITECTURAL PLANS
- ⑬ LIGHT BOLLARD (TYP), SEE ELECTRICAL PLANS
- ⑭ CROSSWALK, 24" WHITE THERMOPLASTIC STRIPES, 48" O.C.
- ⑮ PERMEABLE PAVERS, SEE DETAIL 09/C6.1
- ⑯ GUARD RAIL, SEE DETAIL 10/C6.1
- ⑰ ASPHALT OVERLAY, 1" (MIN)
- ⑱ CONCRETE RETAINING WALL, SEE STRUCTURAL PLANS
- ⑳ CONCRETE RAMP WITH HANDRAILS, BOTH SIDES

SITE DATA

SITE AREA	: 2.62 AC
ZONING	: SF-3
PARKING	: 61 SPACES EXISTING 87 SPACES PROPOSED 4 DISABLED SPACES PROPOSED

GENERAL NOTES:

1. ALL DIMENSIONS IN CURBED AREAS SHALL BE TO FACE OF CURB, UNLESS OTHERWISE NOTED.
-ALL DIMENSIONS IN AREAS WITHOUT CURB SHALL BE TO EDGE OF PAVEMENT.
-ALL DIMENSIONS AT INTEGRAL CURB & WALK SHALL BE TO FACE OF CURB.
2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN FIELD BEFORE STARTING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD DIMENSIONS. IF ANY DISCREPANCIES ARE FOUND IN THESE PLANS FROM ACTUAL FIELD CONDITION, THE CONTRACTOR SHALL CONTACT A/E IMMEDIATELY.
3. PROVIDE SMOOTH TRANSITION FROM NEW AREAS TO EXISTING FEATURES AS NECESSARY.
4. ALL AREAS WHERE THE EXISTING PAVEMENT OR PAVEMENTS ARE DAMAGED DURING CONSTRUCTION FROM TRAFFIC BY THE GENERAL CONTRACTOR, SUBCONTRACTORS, OR SUPPLIERS SHALL BE RESURFACED OR RECONSTRUCTED AT LEAST TO THEIR ORIGINAL CONDITION AFTER CONSTRUCTION WORK IS COMPLETED.
5. ALL RADII INDICATED SHALL BE FORMED AS CIRCULAR ARCS.
6. ALL DIMENSIONS ARE PARALLEL AND PERPENDICULAR TO BASE LINES, PROPERTY LINES OR BUILDING LINES UNLESS OTHERWISE NOTED.
7. ALL STRIPES ARE TO BE 4" PAINTED, WHITE, USING 2 COATS OF TRAFFIC-GRADE PAINT, UNLESS OTHERWISE NOTED.
8. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AT HIS EXPENSE ALL AUTOMOBILE AND PEDESTRIAN TRAFFIC CONTROL DEVICES REQUIRED BY FEDERAL, STATE, COUNTY, CITY OR LOCAL AGENCY. THE AMOUNT, LOCATION AND SIZE SHALL BE PER DIRECTION OF AGENCY.
9. REMOVE ALL MUD, DIRT, GRAVEL, AND ANY OTHER MATERIALS TRACKED ONTO ANY PUBLIC OR PRIVATE STREETS OR SIDEWALKS. CLEAN THESE DAILY. USE WATER OR OTHER METHODS TO KEEP AIRBORNE DUST TO A REQUIRED MINIMUM.
11. AREAS SHOWN TO BE LANDSCAPED SHALL BE TOPPED WITH 4" OF CLEAN TOPSOIL, SEEDED AND MULCHED AS PART OF THIS CONTRACT.

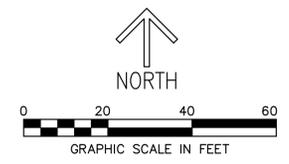
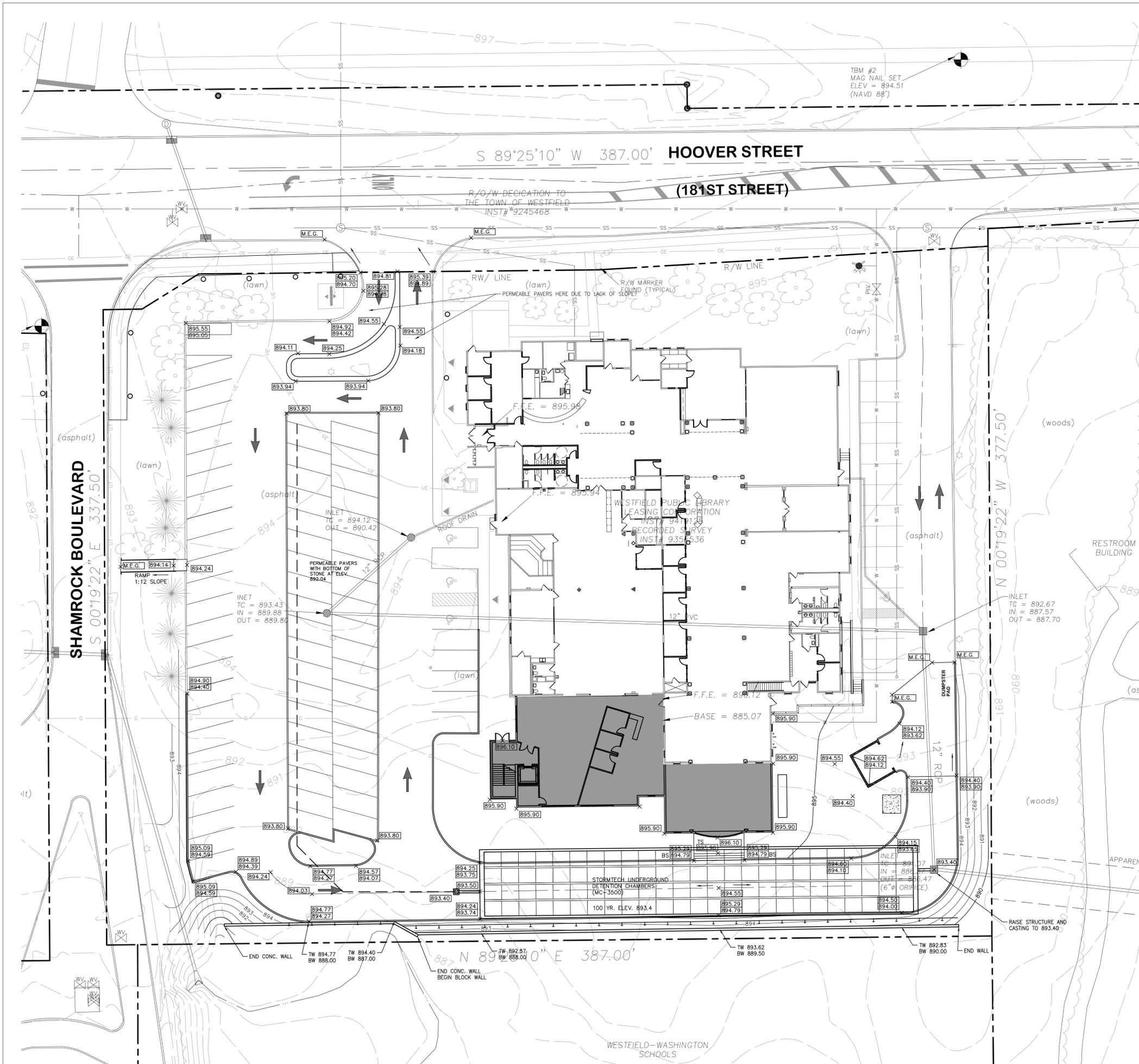
SNELLING ENGINEERING, LLC
 13295 Illinois Street
 Suite 142
 Carmel, IN 46032
 PH: (317) 663-3206
 Fax: (317) 663-3206
 www.snellingeng.com

REVISIONS			
PROJECT No.	120021	DATE	08/31/12
DRAWN BY	GSS	CHECKED BY	GSS

**WESTFIELD PUBLIC LIBRARY
 BUILDING ADDITION
 333 WEST HOOVER STREET
 WESTFIELD, INDIANA**

SHEET NO.
C2.1

SITE PLAN



NOTES:

- 1.) PROVIDE POSITIVE DRAINAGE IN ALL AREAS. PAVING CONTRACTOR SHALL TEST FOR ANY PONDING CONDITIONS AFTER INSTALLATION AND CORRECT.
- 2.) PROVIDE SMOOTH TRANSITION FROM NEW AREAS TO EXISTING FEATURES AS NECESSARY.
- 3.) ALL AREAS WHERE PROPOSED ASPHALT PAVEMENT MEETS THE EXISTING PAVEMENT THE EXISTING PAVEMENT EDGE SHALL BE PROPERLY SEALED WITH A TACK COAT MATERIAL.
- 4.) THE EXCAVATING CONTRACTOR MUST TAKE PARTICULAR CARE WHILE EXCAVATING AROUND EXISTING TREES SO NOT TO DISTURB AND TO MINIMIZE OR ELIMINATE DAMAGE TO ROOT SYSTEM.
- 5.) THE EXCAVATING CONTRACTOR MUST TAKE PARTICULAR CARE WHEN EXCAVATING IN AND AROUND EXISTING UTILITY LINES AND EQUIPMENT. VERIFY COVER REQUIREMENTS BY UTILITY CONTRACTORS AND/OR UTILITY COMPANIES SO NOT TO CAUSE DAMAGE.
- 6.) THE EXCAVATING CONTRACTOR OR LANDSCAPING CONTRACTOR SHALL INSTALL THE FINISH GRADE AT 1/2" BELOW PAVEMENTS WHEN SHEET DRAINAGE IS PROPOSED ACROSS THAT SEEDER AREA FROM PWMT.
- 7.) ALL AREAS WHERE THE EXISTING PAVEMENT OR PAVEMENTS ARE DAMAGED DURING CONSTRUCTION FROM TRAFFIC BY THE GENERAL CONTRACTOR, SUBCONTRACTORS OR SUPPLIERS, SHALL BE RESURFACED OR RECONSTRUCTED AT LEAST TO THEIR ORIGINAL CONDITION AFTER THE CONSTRUCTION WORK IS COMPLETED.
- 8.) SPOT ELEVATIONS SHOWN ARE FOR FINISHED ASPHALT. AT CURB ADD 6" FOR TOP OF CURB ELEVATION.

PROPOSED FEATURE LEGEND

- 871 PROPOSED GROUND CONTOUR
- 871.50 PROPOSED SPOT ELEVATION @ PWMT.
- PROPOSED STORM SEWER & END SECTION
- PROPOSED STORM MANHOLE

BENCHMARK DESCRIPTION:

BM - G11
 ISHC disk set in the top of the SW wing wall of a concrete slab culvert, over the Bowman Drain, 293' +/- west of intersection of SR 32 and Union Street on the South side of S.R. 32 in Westfield.
 Elev = 876.57 (NAVD 88' = 876.183, vertcon conversion)

THE SUBJECT PROPERTY IS NOT LOCATED IN A SPECIAL FLOOD HAZARD AREA AS ESTABLISHED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY NATIONAL FLOOD INSURANCE PROGRAM AS PER SCALED INTERPRETATION OF FLOOD RATE MAP #18057C0120F. AREA IN ZONE "X" MAP DATED FEB 19, 2003.

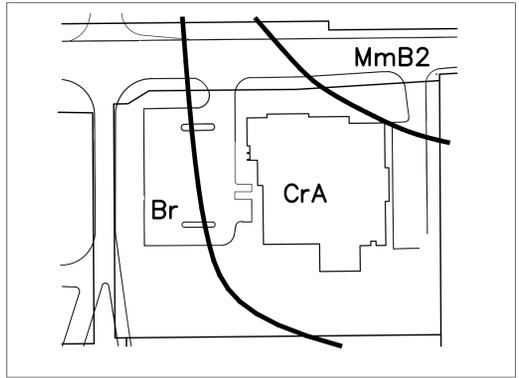
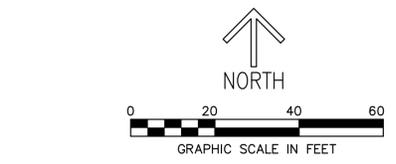
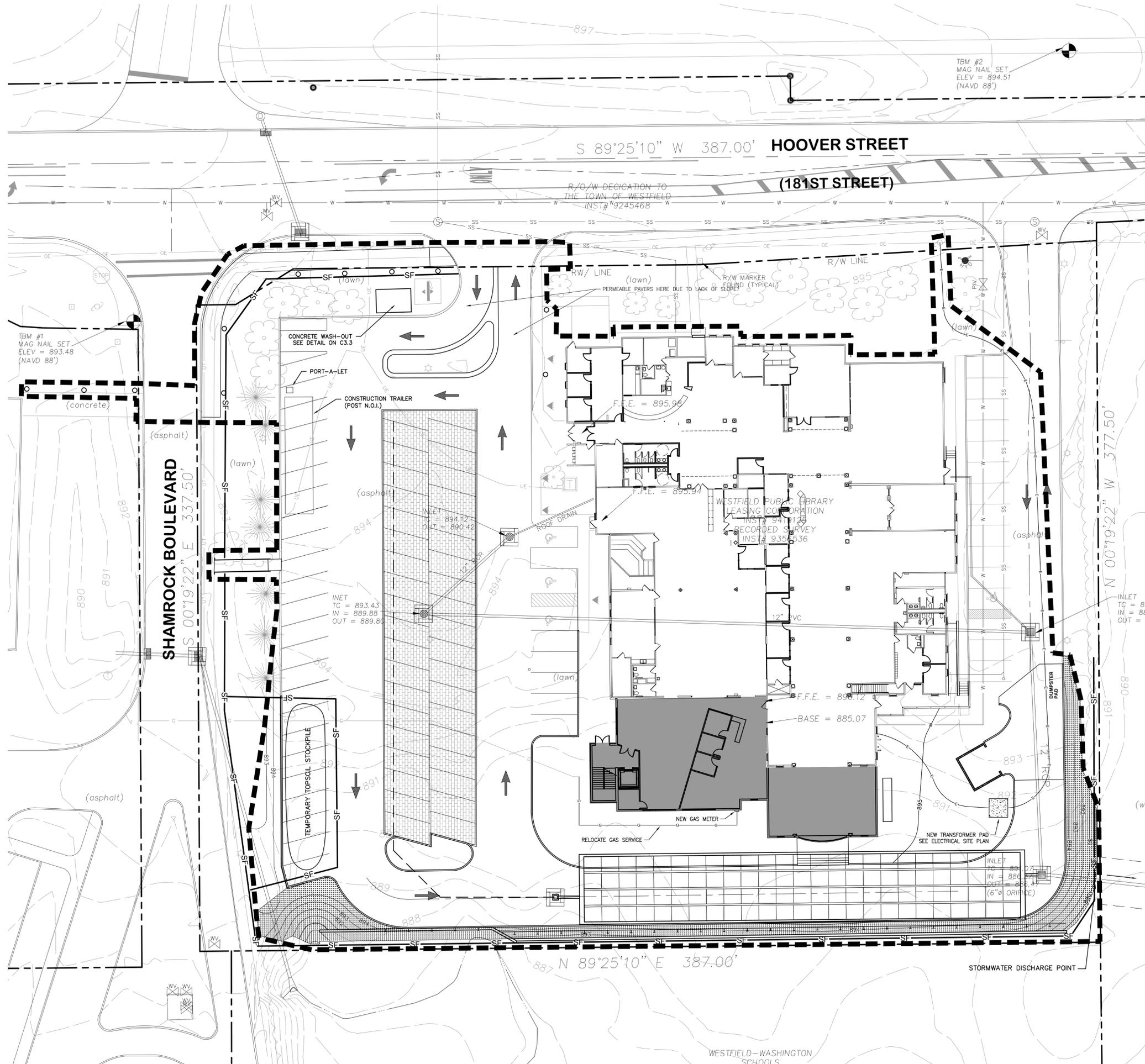
SNELLING ENGINEERING, LLC
 13295 Illinois Street
 Suite 142
 Carmel, IN 46032
 Ph: (317) 663-3206
 Fax: (317) 663-3208
 www.snellingeng.com

REVISIONS			
PROJECT No.	DATE	DRAWN BY	CHECKED BY
120021	08/31/12	GSS	GSS

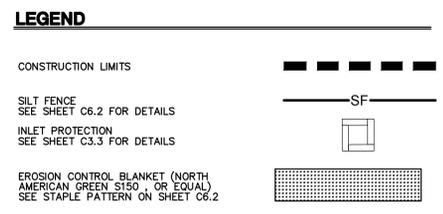
**WESTFIELD PUBLIC LIBRARY
 BUILDING ADDITION
 333 WEST HOOVER STREET
 WESTFIELD, INDIANA**

GRADING AND DRAINAGE PLAN

SHEET NO.
C3.1



ALL DISTURBED AREAS THAT ARE LEFT UNSTABILIZED FOR 15 DAYS SHALL RECEIVE SEED AND MULCH.



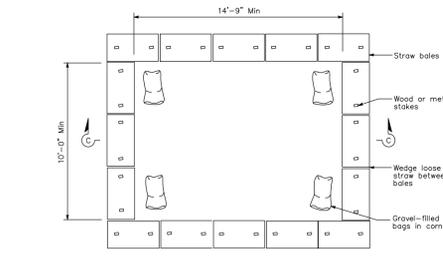
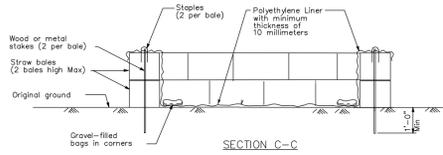
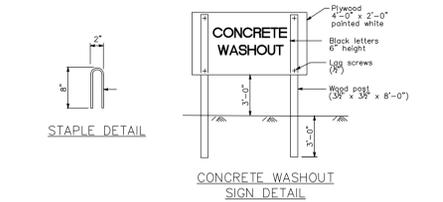
SNELLING ENGINEERING, LLC
 13 295 Illinois Street
 Suite 142
 Carmel, IN 46032
 Ph: (317) 663-3206
 Fax: (317) 663-3208
 www.snellingeng.com

REVISIONS			
PROJECT No.	120021	DATE	08/31/12
DRAWN BY	GSS	CHECKED BY	GSS

**WESTFIELD PUBLIC LIBRARY
 BUILDING ADDITION
 333 WEST HOOVER STREET
 WESTFIELD, INDIANA**

STORMWATER POLLUTION PREVENTION

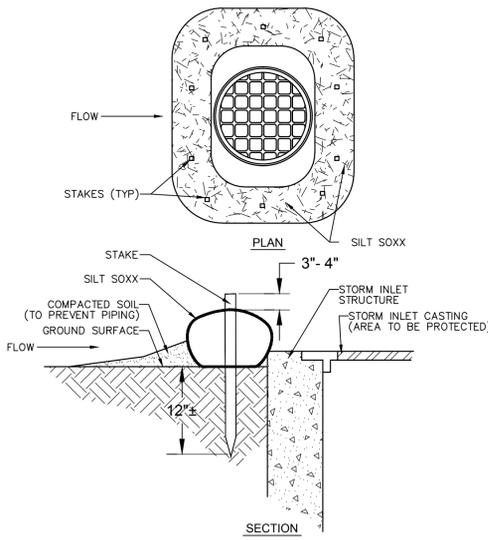
SHEET NO.
C3.2



TEMPORARY CONCRETE WASHOUT FACILITY
(On Gravel)

- NOTES:
- The concrete washout sign shall be installed within 50' of the temporary concrete washout facility.
 - Liner shall be anchored with gravel-filled bags in corners.

CONCRETE WASHOUT DETAIL
NO SCALE



INLET PROTECTION DETAIL
NO SCALE

- Location, dimensions, detailed specifications, and construction details of all temporary and permanent stormwater quality measures.
See Sheet C3.2
- Soil map of the predominant soil types, as determined by the United States Department of Agriculture (USDA), Natural Resources Conservation Service (NRCS) Soil Survey, or as determined by a soil scientist. Hydrologic classification for soils should be shown when hydrologic methods requiring soils information are used. A soil legend must be included with the soil map.
The soils map and soils legend are shown on this sheet.
- 14-Digit Watershed Hydrologic Unit Code.
The hydrologic unit code for the site is 05120201090030.
- An estimate of the peak discharge, based on the ten (10) year storm 24-hour event, of the project site for post-construction conditions: **0.26 cfs**
- Locations where stormwater may be directly discharged into groundwater, such as abandoned wells or sinkholes. Please note if none exists.
Stormwater may enter groundwater below the underground detention system. However, the underlying soils are only slightly permeable, so infiltration into groundwater is expected to be minimal.
- Locations of specific points where stormwater discharge will leave the project site.
The stormwater discharge point is shown on sheet C3.2
- Name of all receiving waters. If the discharge is to a separate MS4, identify the name of the municipal owner and the ultimate receiving water.
The receiving water for the site is the J. M. Thompson Drain. The municipal owner of the drain is the Hamilton County Surveyor.

- Temporary stabilization plans and sequence of implementation.
Temporary stabilization plans are shown on sheet C3.2. The anticipated sequence of implementation is as follows:
 - Install silt fence, concrete wash out and construction entrance. No construction activity may commence until a pre-construction meeting has been held with the City of Westfield Department of Public Works.
 - Clear and grub; strip topsoil and remove from site.
 - Rough grade building and parking areas. Install underground detention system.
 - Install erosion control blankets, outlet protection and temporary seed areas to remain exposed for more than 7 days.
 - Place stone base for pavement areas and use for construction staging. In permeable paver areas, install temporary #2 stone staging base to be removed at a later date.
 - Begin building addition construction.
 - Install utilities and remaining storm pipes. Permanent seed and mulch disturbed areas from utility installation.
 - Remove any accumulated sediment within underground detention system (vacuum) and replace in non-structural fill areas onsite.
 - Permanent seed as shown on plan.
 - Install concrete curbs, ramps, and walkways.
 - Install base and binder course on driveways and parking areas.
 - Install landscaping.
 - Remove #2 stone staging area and replace with permeable paver stone base only after all areas are stabilized with no potential for soil, dust or mud entering stone base.
 - Complete building construction.
 - Install asphalt surface course and permeable pavers.
 - Remove concrete wash out after completion of all concrete work.
 - Remove silt fence, inlet protection after all areas are stabilized.

- Permanent stabilization plans and sequence of implementation.
Permanent stabilization plans consist of the permanent seeding noted on C3.2 and in the sequence of implementation shown under #8.
- Temporary and permanent stabilization plans shall include the following:
 - Specifications and application rates for soil amendments and seed mixtures.
See seedbed preparation requirements noted on this sheet.
 - The type and application rate for anchored mulch.
See seeding schedule on this sheet.

- General construction sequence of how the project site will be built, including phases of construction.
The general construction sequence has been included with the stabilization sequence of implementation described in #8. This will allow the contractor to note when to implement stabilization measures with respect to the overall construction sequence.
- Construction sequence describing the relationship between implementation of stormwater quality measures and stages of construction activities.
See #11 above.
- Location of all soil stockpiles and borrow areas.
A topsoil stockpile area is shown on sheet C3.2.
- A typical erosion and sediment control plan for individual lot development.
Not applicable to this project.

- Self-monitoring program including plan and procedures.
Monitoring and maintenance guidelines are shown on this sheet.
- Description of potential pollutant sources associated with the construction activities, which may reasonably be expected to add a significant amount of pollutants to stormwater discharges.
Potential pollutant sources during construction activities include sediment, concrete wastewater, trash, fossil fuels, oil, grease and paint. Exposure of these pollutants to storm water runoff should be minimized by performing activities such as equipment storage, refueling, maintenance and "port-a-let" placement in designed areas as shown on this sheet.

- Material handling and storage associated with construction activity shall meet the spill prevention and spill response requirements in 327 IAC 2-6.1.
A Material Handling, Storage and Spill Prevention Plan is shown on this sheet.
- Name, address, telephone number, and list of qualifications of the trained individual in charge of the mandatory stormwater pollution prevention self-monitoring program for the project site.
**Mr. Sam A. Mishelov
Meyer & Najem
13099 Parkside Drive
Fishers, Indiana 46038
(317) 813-6143**

Post-construction SWPPP:

- Description of potential pollutant sources from the proposed land use, which may reasonably be expected to add a significant amount of pollutants to stormwater discharges.
Expected pollutants in stage post-development stage include oil, grease, antifreeze, gasoline, etc. That could be spilled by tenants. Additional potential pollutants include fertilizers, trash, pesticides, and herbicides.
- Location, dimensions, detailed specifications, and construction details of all post-construction stormwater quality measures.
See sheets C3.2, C6.1 and C6.3 for location, dimensions and details of all post-construction stormwater quality measures. Specifications for these items are included in the Project Manual available upon request.
- Description of measures that will be installed to control pollutants in stormwater discharges that will occur after construction activities have been completed.
Measures that will be installed on this site to control pollutants in stormwater discharges include a level roof for the building addition, a permeable paver system and an underground detention system.
- Sequence describing when each post-construction stormwater quality measure will be installed.
An overall construction sequence is listed under #8 for the Construction Site SWPPP.
- Stormwater quality measures that will remove or minimize pollutants from stormwater run-off.
See #3 above.
- Stormwater quality measures that will be implemented to prevent or minimize adverse impacts to stream and riparian habitat.
See #3 above. All of the proposed measures will control pollutants in stormwater discharges and therefore minimize adverse impacts to stream and riparian habitat.
- Operation and maintenance manual, both in hard copy and digital PDF format, for all post-construction stormwater quality measures to facilitate their proper long term function. This operation and maintenance manual shall be made available to future parties who will assume responsibility for the operation and maintenance of the post-construction stormwater quality measures. The manual shall include the following:
 - Contact information for the BMP owner (i.e. name, address, business phone number, cell phone number, pager number, e-mail address, etc.)
 - A statement that the BMP owner is responsible for all costs associated with maintaining the BMP.
 - A right-of-entry statement allowing the Town of Westfield personnel to inspect and maintain the BMP.
 - Specific actions to be taken regarding routine maintenance, remedial maintenance of structural components, and sediment removal. Sediment removal procedures should be explained in both narrative and graphical forms. A tabular schedule should be provided listing all maintenance activities and dates for performing these required maintenance activities.
 - Site drawings showing the location of the BMP and access easement, cross sections of BMP features (i.e. pond, forebay(s), structural components, etc.), and the point of discharge for stormwater treated by the BMP.
See stand-alone O & M Manual.

ALL DISTURBED AREAS THAT ARE LEFT UNSTABILIZED FOR 7 DAYS SHALL RECEIVE SEED AND MULCH.

NO EARTH DISTURBING ACTIVITIES MAY COMMENCE WITHOUT AN APPROVED STORMWATER MANAGEMENT PERMIT

MATERIAL HANDLING, STORAGE AND SPILL PREVENTION PLAN

MATERIAL HANDLING, STORAGE AND SPILL PREVENTION PLAN: IN ORDER TO MINIMIZE THE RELEASE OF POTENTIAL POLLUTANTS DURING CONSTRUCTION THE CONTRACTOR SHALL IMPLEMENT THIS MATERIAL HANDLING AND SPILL PREVENTION PLAN. THE CONTRACTOR SHALL REVIEW THIS PLAN WITH ALL SUBCONTRACTORS AND REQUIRE THAT THEY IMPLEMENT THE PLAN AS WELL. IF A SPILL SHOULD OCCUR PLEASE CONTACT THE APPROPRIATE AUTHORITIES BELOW:

- EMERGENCY RESPONSE 911
CARMEL FIRE DEPARTMENT (317)571-2600
CARMEL POLICE DEPARTMENT (317)571-2545
INDIANA DEPARTMENT OF NATURAL RESOURCES (812)477-8773
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (317)233-7745
HAMILTON COUNTY SOIL AND WATER (317)773-2181

- CONSTRUCTION EQUIPMENT
 - FUELING, LUBRICATION, AND FLUIDS: ALL OPERATIONS INVOLVING THE ADDITION OF FLUIDS TO EQUIPMENT SHOULD BE DONE IN ONE LOCATION, AS DESIGNATED ON SHEET C3.01, SO THAT SPILLS ARE LIMITED TO THAT SPECIFIC LOCATION WHICH WILL FACILITATE THE CLEANUP OF SPILLS. IF AN OUTSIDE FUELING TANK IS PLANNED TO BE ON SITE, IT SHALL BE DOUBLE WALLED AND STORED IN THIS DESIGNATED AREA. THIS LOCATION IS AN AREA THAT WILL NOT ALLOW SPILLED FLUIDS TO MIGRATE INTO SUBSURFACE SOILS. IN THE EVENT OF A SPILL, THE FLUID SHALL IMMEDIATELY BE CLEANED UP BY REMOVING THE CONTAMINATED SOIL OR STONE WHICH SHALL BE DISPOSED OF IN AN ACCEPTABLE MANNER. SPILLS ON HARD SURFACES SHALL BE SOAKED UP BY AN ACCEPTABLE MATERIAL, SUCH AS OIL DRY AND THE ABSORBENT MATERIAL DISPOSED OF IN A PROPER MANNER. THE SPILL SHALL ALSO BE REPORTED IMMEDIATELY TO THE CONTRACTOR'S SUPERINTENDENT.
 - EQUIPMENT REPAIR, ESPECIALLY WHEN FLUIDS MUST BE REMOVED FROM THE EQUIPMENT OR THE POSSIBILITY OF FLUID SPILLS IS HIGH, SHOULD ALWAYS BE DONE OFFSITE AT A FACILITY THAT IS MORE SUITABLE THAN A CONSTRUCTION SITE TO HANDLE SPILLS. WHEN EQUIPMENT MUST BE REPAIRED ON SITE, IT SHOULD BE MOVED TO THE MAINTENANCE AND FUELING AREA IF POSSIBLE. OTHERWISE, SUITABLE ON SITE CONTAINERS SHOULD BE PLACED UNDER THE EQUIPMENT DURING REPAIR TO CATCH ANY SPILLED FLUIDS AND THESE FLUIDS SHOULD BE DISPOSED OF IN A PROPER MANNER.
 - ALL REUSABLE FLUID CONTAINERS, SUCH AS GASOLINE CANS, SHALL BE INSPECTED FOR LEAKS EACH TIME THEY ARE USED. IF LEAKS ARE FOUND, THE FLUID SHALL BE REMOVED FROM THE CONTAINER IN A PROPER MANNER AND THE CONTAINER DISPOSED OF IN AN ACCEPTABLE MANNER. EMPTY DISPOSABLE CONTAINERS, SUCH AS GREASE TUBES AND LUBRICATING OIL AND BRAKE FLUID CONTAINERS, AND THEIR PACKAGING, SHALL BE DISPOSED OF IN A PROPER MANNER AND SHALL NOT BE LEFT ON THE GROUND OR IN THE OPEN ON THE CONSTRUCTION SITE.

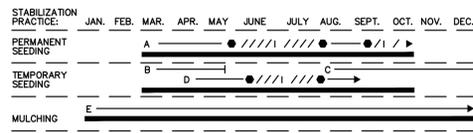
- CONSTRUCTION MATERIALS AND THEIR PACKAGING
 - EROSION CONTROL MEASURES SHOWN ON THESE PLANS SHALL BE IMPLEMENTED PRIOR TO AND DURING CONSTRUCTION IN THE PROPER SEQUENCING TO MINIMIZE SOIL EROSION. EROSION CONTROLS SHALL BE INSPECTED AND MAINTAINED AS DESCRIBED ELSEWHERE IN THESE PLANS. EXCESSIVE DUSTING OF SOIL ON THE SITE SHALL BE MINIMIZED BY REDUCING CONSTRUCTION TRAFFIC ACROSS BARE SOIL DURING DRY AND/OR WINDY WEATHER, AND BY APPLYING WATER OR OTHER ACCEPTABLE DUST CONTROL MEASURES TO THE SOIL. UPON COMPLETION OF CONSTRUCTION AND SUITABLE ESTABLISHMENT OF PERMANENT VEGETATION, TEMPORARY EROSION CONTROL MEASURES SUCH AS SILT FENCE, CHECK DAMS, AND INLET PROTECTION DEVICES SHALL BE REMOVED IN A MANNER TO MINIMIZE ADDITIONAL LAND DISTURBANCE. ANY AREAS DISTURBED BY THESE OPERATIONS SHALL BE PROPERLY REVEGETATED.
 - LARGE WASTE MATERIALS CREATED BY CUTTING, SAWING, DRILLING, OR OTHER OPERATIONS SHALL BE PROPERLY DISPOSED OF IN SUITABLE ON SITE WASTE CONTAINERS. THE SITE SHALL BE CHECKED AT THE END OF THE DAY AT A MINIMUM AND ALL WASTE MATERIALS, INCLUDING THOSE BLOWN ACROSS OR OFF THE SITE BY WIND, SHALL BE PICKED UP AND DISPOSED OF IN SUITABLE CONTAINERS. WHERE POSSIBLE, OPERATIONS SUCH AS SAWING THAT CREATE SMALL PARTICLES SHOULD BE PERFORMED IN ONE SPOT IN AN AREA PROTECTED FROM WIND, AND WASTE PARTICLES COLLECTED AND DISPOSED OF FREQUENTLY TO MINIMIZE WIND DISPERSAL.

- ALL DEWATERING ACTIVITIES SHALL BE DONE IN ACCORDANCE TO GOOD EROSION CONTROL PRACTICES. THESE PRACTICES SHOULD INCLUDE THE USE OF DIRT BAGS SUCH AS DANDY DIRT BAGS. THE USE OF THESE TYPES OF DEWATERING DEVICES WILL REMOVE LARGE QUANTITIES OF SILT, SEDIMENT, AND DIRT AND PREVENT THESE MATERIALS FROM ENTERING THE STORM SEWER SYSTEM.
- IF THE USE OF LIME IS USED TO STABILIZE THE SOIL OF THE SITE THEN ALL CONSTRUCTION EQUIPMENT USED SHALL BE CLEANED OF ALL EXCESS MATERIAL WITH WATER IN THE CONSTRUCTION STAGING AREA AS SHOWN WITHIN THESE PLANS.
- NUTRIENTS AND FERTILIZERS SHALL ONLY BE USED TO ESTABLISH RAPID VEGETATION. WHEN THESE PRODUCTS ARE UTILIZED, THE USER SHOULD PAY STRICT ATTENTION TO THE PRODUCTS RECOMMENDED USAGE.

- CONCRETE WASTE WATER
 - ALL CONCRETE WASTE WATER SHALL BE HELD OF IN THE DESIGNATED AREA AS SHOWN ON THE PLANS. THIS AREA IS A 24" DEEP, 20'X10' BLOCK BASIN WITH AN IMPERVIOUS MEMBRANE. THIS AREA SHALL BE INSPECTED ON A DAILY BASIS AT A MINIMUM. WHEN THIS AREA BECOMES FULL, THE POLLUTANTS SHALL BE EXCAVATED, PLACED IN AN ACCEPTABLE CONTAINER AND DISPOSED OF IN A PROPER MANNER.
- PAINT PRODUCTS
 - ALL EXCESS PAINT AND THEIR RELATED PRODUCTS SHALL BE DISPOSED OF IN THE MANNER BY WHICH THE MANUFACTURER SUGGESTS. UNDER NO CIRCUMSTANCES SHALL PAINT OR THEIR RELATED PRODUCTS BE CLEANED OR DISPOSED OF IN SOIL, SANITARY SEWERS, STORM SEWERS OR DETENTION BASINS. ANY VIOLATIONS OF THIS SHALL BE REPORTED TO THE JOB SUPERINTENDENT.

- IN THE EVENT OF ACCIDENTAL CONTAMINATION ALL EFFORTS SHOULD BE MADE TO REMOVE CONTAMINANTS IN AN APPROPRIATE MANNER. THE CARMEL FIRE DEPARTMENT (317-571-2600) SHOULD BE CONTACTED IMMEDIATELY TO DETERMINE IF FURTHER MEASURES ARE NEEDED.

EROSION CONTROL MONITORING & MAINTENANCE GUIDELINES		
EROSION CONTROL MEASURE	MAINTENANCE	INSTALLATION SEQUENCE
CONSTRUCTION ENTRANCE	INSPECT WEEKLY, AFTER STORM EVENTS, AND AFTER HEAVY USE; RESHAPE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL; TOP DRESS WITH CLEAN STONE AS NEEDED; REMOVE ALL MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS IMMEDIATELY	PRIOR TO CLEARING AND GRADING
EXISTING INLET PROTECTION	WEEKLY, AFTER STORM EVENTS, AND AS NEEDED	PRIOR TO CLEARING AND GRADING
TREE PROTECTION	WEEKLY, AFTER STORM EVENTS, AND AS NEEDED	PRIOR TO CLEARING AND GRADING
TEMPORARY SEEDING	INSPECT PERIODICALLY TO VERIFY ADEQUATE ESTABLISHMENT OF VEGETATIVE SEEDS; RESEED AND MULCH AS NEEDED; INSPECT AFTER STORM EVENTS AND REPAIR EROSION DAMAGES; TOP DRESS FALL SEEDS; WHEAT OR RYE SEEDINGS WITH 50 LBS/AC OF NITROGEN IN FEBRUARY OR MARCH IF NITROGEN DEFICIENCY IS APPARENT; WATER AS NEEDED	AFTER ROUGH GRADING
PERMANENT SEEDING	INSPECT PERIODICALLY AND AFTER STORM EVENTS UNTIL VEGETATIVE STAND IS ESTABLISHED; ADD FERTILIZER AFTER GROWING SEASON PER SOIL TEST RECOMMENDATIONS; REPAIR DAMAGED, BARE, OR SPARSE AREAS BY FILLING, REPREPARING THE SEED BED, FERTILIZING, AND/OR SEEDING AND MULCHING	AFTER FINISH GRADING OF EACH AREA
EROSION CONTROL BLANKET	INSPECT FOR AREAS OF EROSION BELOW THE BLANKET AFTER EACH STORM EVENT; REPAIR AREAS OF EROSION BY REMOVING AFFECTED PORTION OF BLANKET, ADD SOIL, RESEED, RELAY AND STAPLE BLANKET; INSPECT PERIODICALLY AFTER VEGETATION IS ESTABLISHED	AFTER FINISH GRADING
INLET PROTECTION	INSPECT FABRIC BARRIER AFTER STORM EVENTS AND MAKE NEEDED REPAIRS IMMEDIATELY; REMOVE SEDIMENT FROM THE POOL AREA WHILE AVOIDING DAMAGING OR UNDERCUTTING THE FABRIC	AFTER EACH INLET IS PLACED
SEED, SOD & LANDSCAPE AROUND UNITS FINISHED	KEEP SOD MOIST UNTIL FULLY ROOTED; WATER AS NEEDED	AFTER FINISHED GRADING AROUND FINISHED UNITS
REMOVAL OF INLET PROTECTION	N/A	AFTER ALL AREAS DRAINING TO THESE AREAS ARE STABILIZED



- A = KENTUCKY BLUEGRASS 40%, TURF TYPE TALL FESCUE 40%, ANNUAL RYE GRASS 20% PLUS 2 TONS OF STRAW MULCH/ACRE
APPLY MIXTURE AT A RATE OF 2 LBS. PER 1000 SQ.FT.
- B = SEED OATS 3 BUSHEL PER ACRE
C = ANNUAL RYE GRASS (1 LB. PER 1000 SQ. FT.)
D = ANNUAL RYE GRASS (1 LB. PER 1000 SQ. FT.)
E = STRAW MULCH (90 LBS. PER 1000 SQ.FT.)
- / / ● IRRIGATION NEEDED DURING JUNE, JULY, AND / OR SEPTEMBER.
● ● IRRIGATION NEEDED FOR 2 TO 3 WEEKS AFTER APPLYING SOD
- NOTE: ALL SEEDING SHALL HAVE 12-0-12 FERTILIZER APPLIED 400-600 LBS. PER ACRE OR AS SPECIFIED.

SEEDING SCHEDULE
NO SCALE

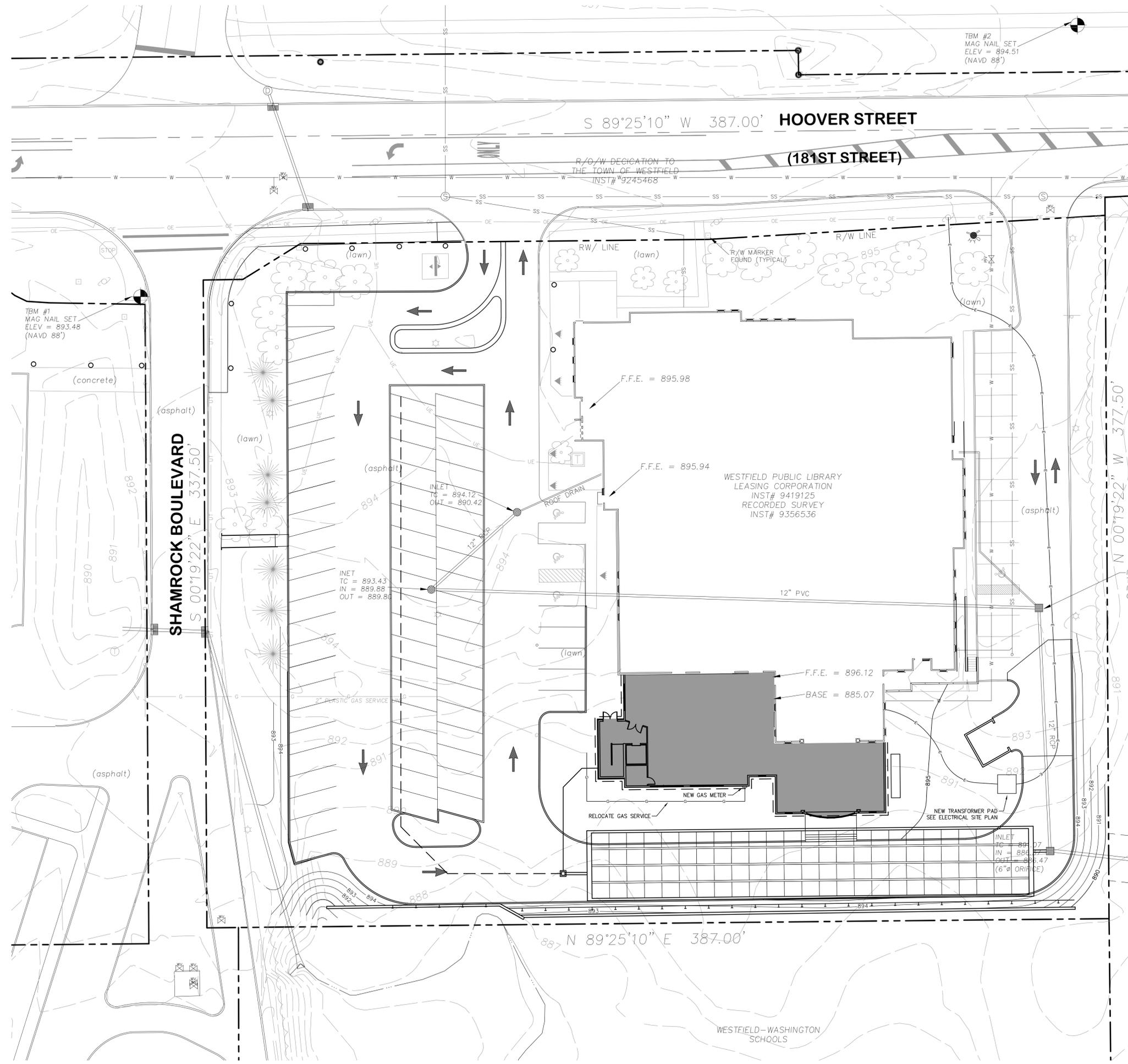
- SEEDBED PREPARATION REQUIREMENTS:
- TEST SOIL TO DETERMINE pH AND NUTRIENT LEVELS. (CONTACT YOUR COUNTY SWCD OR COOPERATIVE EXTENSION OFFICE FOR ASSISTANCE AND ADDITIONAL SOILS INFORMATION)
 - IF SOIL pH IS UNSUITABLE FOR THE SPECIES TO BE SEEDDED, APPLY LIME ACCORDING TO TEST RECOMMENDATIONS.
 - FERTILIZE AS RECOMMENDED BY THE SOIL TEST. IF TESTING WAS NOT DONE, CONSIDER APPLYING 400-600 LBS./ACRE OF 12-0-12 ANALYSIS, OR EQUIVALENT, FERTILIZER. IF SOILS TESTING SHOWS THAT A PHOSPHOROUS DEFICIENCY EXISTS, A 12-12-12 FERTILIZER MAY BE USED.
 - TILL THE SOIL TO OBTAIN A UNIFORM SEEDBED, WORKING THE FERTILIZER AND LIME INTO THE SOIL 2-4 INCHES DEEP WITH A DISC OR RAKE OPERATED ACROSS THE SLOPE.

SNELLING ENGINEERING, LLC
13295 Illinois Street
Suite 142
Carmel, IN 46032
Ph: (317) 663-3206
Fax: (317) 663-3206
www.snellingeng.com

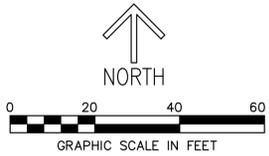
PROJECT No.	120021
DATE	08/31/12
DRAWN BY	GSS
CHECKED BY	GSS

**WESTFIELD PUBLIC LIBRARY
BUILDING ADDITION
333 WEST HOOVER STREET
WESTFIELD, INDIANA**

STORMWATER POLLUTION PREVENTION



TBM #2
MAG NAIL SET
ELEV = 894.51
(NAVD 88')



S 89°25'10" W 387.00' HOOVER STREET
(181ST STREET)

R/O/W DEDICATION TO
THE TOWN OF WESTFIELD
INST# 9245468

TBM #1
MAG NAIL SET
ELEV = 893.48
(NAVD 88')

SHAMROCK BOULEVARD
S 00°19'22" E 337.50'

WESTFIELD PUBLIC LIBRARY
LEASING CORPORATION
INST# 9419125
RECORDED SURVEY
INST# 9356536

UTILITY CONTACTS:

SANITARY SEWER / WATER:
WESTFIELD PUBLIC WORKS
2706 EAST 171ST STREET
WESTFIELD, IN 46074
PH: 317.804.3100

ELECTRIC:
DUKE ENERGY
16475 SOUTHPARK DRIVE
WESTFIELD, IN 46074
PH: 317-896-6711

NATURAL GAS:
CITIZENS GAS OF WESTFIELD
2020 N. MERIDIAN STREET
INDIANAPOLIS, INDIANA 46202
PH: 317.927-4684

TELEPHONE:
FRONTIER COMMUNICATION
20905 HAGUE ROAD
NOBLESVILLE, IN 46060
PH: 317.984.9010

CABLE:
COMCAST CABLE
9750 E. 150TH ST., SUITE 1600
NOBLESVILLE, IN 46060
PH: 317.776.0660

LEGEND

- E — PROPOSED BURIED ELECTRIC SERVICE LINE
- G — PROPOSED GAS SERVICE LINE

GENERAL NOTES

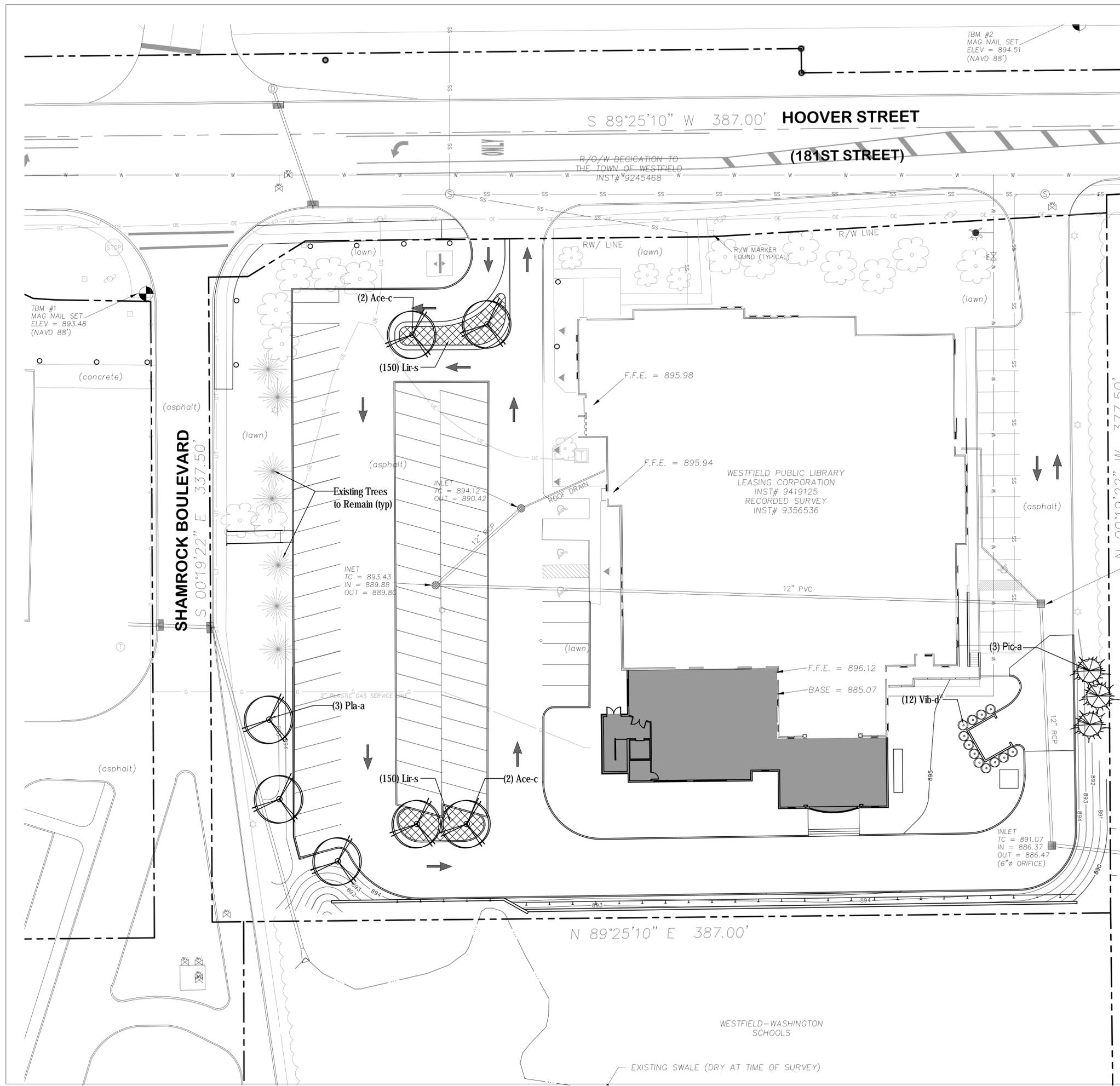
1. ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED.
2. CONSTRUCTION SHALL NOT COMMENCE UNTIL AN IMPROVEMENT LOCATION PERMIT HAS BEEN OBTAINED.
3. ADDITIONS, DELETIONS, AND/OR REVISIONS TO THE SANITARY SEWER FACILITIES SHALL NOT BE MADE WITHOUT APPROVAL BY THE CITY OF WESTFIELD.
4. WATER MAINS CROSSING ANY AND ALL SEWERS SHALL HAVE A MINIMUM VERTICAL SEPARATION OF 18" BETWEEN THE OUTSIDE OF THE WATER MAIN PIPE AND THE SEWER PIPE. ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED AT THE POINT OF THE CROSSING SUCH THAT BOTH JOINTS WILL BE EQUIDISTANT AND AS FAR AWAY FROM THE SEWER AS POSSIBLE. IF WATER LINE(S) CROSS BELOW SANITARY SEWER LINE(S), SEWER LINE MUST BE CONSTRUCTED FROM WATER MAIN MATERIAL FOR THAT PARTICULAR SPAN.
5. EXISTING UNDERGROUND UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS ACCORDING TO THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF THE EXISTING UTILITIES AND REPAIRING ANY DAMAGE DONE TO THE UTILITIES DURING PROBING OR CONSTRUCTION. TO OBTAIN ACCURATE FIELD LOCATIONS OF EXISTING UNDERGROUND UTILITIES, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING FORTY-EIGHT (48) HOURS IN ADVANCE: INDIANA UNDERGROUND CABLE LOCATION 1-800-382-5544.
6. ALL STORM DRAINAGE CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH LOCAL STORM SEWER SPECIFICATIONS AND REQUIREMENTS.
7. FIELD TILE ENCOUNTERED SHALL BE REPLACED AND/OR CONNECTED TO THE STORM SEWER SYSTEM.
8. SIDE SLOPES 3:1 OR GREATER WILL BE SODDED OR STABILIZED WITH AN EROSION CONTROL BLANKET.
9. ALL EARTHEN AREAS DISTURBED DURING CONSTRUCTION SHALL HAVE TEMPORARY SEEDING AND MULCHING.
10. SILT FENCE AROUND STRUCTURES IN PAVEMENT AREA ARE TO BE INSTALLED PRIOR TO PAVING CONSTRUCTION.
11. GRANULAR BACKFILL REQUIRED FOR ALL PIPE UNDER PAVEMENT AND WITHIN 5 FEET OF PAVEMENT.
12. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AT HIS EXPENSE ALL AUTOMOBILE AND PEDESTRIAN TRAFFIC CONTROL DEVICES REQUIRED BY FEDERAL, STATE, COUNTY, CITY OR LOCAL AGENCY. THE AMOUNT, LOCATION AND SIZE SHALL BE PER DIRECTION OF AGENCY.

**SNELLING
ENGINEERING, LLC**
13,295 Illinois Street
Suite 142
Carmel, IN 46032
PH: (317) 663-3206
Fax: (317) 663-3208
www.snellingeng.com

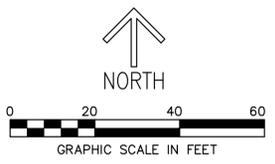
REVISIONS	
PROJECT No.	120021
DATE	08/31/12
DRAWN BY	GSS
CHECKED BY	GSS

**WESTFIELD-WASHINGTON PUBLIC LIBRARY
BUILDING ADDITION
333 WEST HOOVER STREET
WESTFIELD, INDIANA**

SHEET NO.
C4.1



TBM #2
MAG NAIL SET
ELEV = 894.51
(NAVD 88')



LANDSCAPE NOTES

- IN CASE OF DISCREPANCIES BETWEEN THE PLAN AND PLANT LIST, THE PLAN SHALL DICATE. IF PLANT IDENTIFICATION BOX QUANTITY SHOWN ON PLAN DIFFERS FROM GRAPHIC PLANT CIRCLE COUNT, THE GRAPHIC CIRCLE COUNT SHALL DICATE. IF IN QUESTION, CONTACT THE LANDSCAPE ARCHITECT.
- ALL MULCH BEDS TO BE COVERED WITH 3" THICK LAYER OF SHREDDED HARDWOOD BARK MULCH. ALL ANNUAL FLOWER BEDS SHALL BE COVERED WITH 2" SHREDDED HARDWOOD BARK MULCH. BARK MULCH SHALL BE APPROVED BY LANDSCAPE ARCHITECT AND SHALL BE UNIFORM IN TEXTURE AND COLOR AND SHALL BE OBTAINED FROM SAWMILL OR LUMBERING OPERATIONS. NO UTILITY MULCH OR PROCESSED TREE TRIMMINGS WILL BE ALLOWED.
- AN APPROVED PRE-EMERGENT HERBICIDE SHALL BE APPLIED IN ALL PLANTING AND FLOWER BEDS AT RATES SPECIFIED BY MANUFACTURER FOR EACH VARIETY OF PLANT.
- FINAL PLACEMENT OF PLANT MATERIALS, ETC. SHALL BE APPROVED BY LANDSCAPE ARCHITECT BEFORE PLANTING OPERATIONS ARE TO PROCEED. ALL TREE LOCATIONS SHALL BE MARKED WITH A WOODEN STAKE INDICATING VARIETY AND SIZE OF TREE. ALL GROUND COVER AND MULCH BED LINES SHALL BE MARKED BY A HIGHLY VISIBLE PAINT LINE WITH OCCASIONAL WOOD STAKES FOR REFERENCE. ALL STAKES SHALL BE REMOVED FOLLOWING PLANTING OPERATIONS. LANDSCAPE ARCHITECT RESERVES THE RIGHT TO ADJUST PLANT LOCATIONS ON SITE.
- NO SUBSTITUTIONS OF PLANT MATERIAL WILL BE ALLOWED. IF PLANTS ARE SHOWN TO BE UNAVAILABLE, THE CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT PRIOR TO BID DATE IN WRITING. ALL PLANTS SHALL BE INSPECTED AND TAGGED WITH PROJECT IDENTIFICATION AT NURSERY OR CONTRACTOR'S OPERATION PRIOR TO MOVING TO JOB SITE. PLANTS MAY ALSO BE INSPECTED AND APPROVED OR REJECTED ON THE JOB SITE.
- ALL PLANTS ARE TO MEET OR EXCEED AMERICAN STANDARDS FOR NURSERY STOCK, 1996 EDITION, AS SET FORTH BY AMERICAN ASSOCIATION OF NURSEYMEN.
- PLANTS AND ALL OTHER MATERIALS TO BE STORED ON SITE WILL BE PLACED WHERE THEY WILL NOT CONFLICT WITH CONSTRUCTION OPERATIONS AND AS DIRECTED BY OWNER.
- ALL LANDSCAPE PLANTINGS, INCLUDING TRANSPLANTS, SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FOLLOWING FINAL INSPECTION BY LANDSCAPE ARCHITECT. AT THE END OF THIS PERIOD, PLANT MATERIAL TERMED DEAD OR UNSATISFACTORY BY LANDSCAPE ARCHITECT SHALL BE REPLACED AT NO ADDITIONAL CHARGE BY THE LANDSCAPE CONTRACTOR.
- THE LANDSCAPE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND FEES THAT MAY BE REQUIRED FOR HIS PORTION OF WORK.
- PEAT MOSS TO BE USED ON PROJECT SHALL BE A DOMESTIC OR IMPORTED MATERIAL, CHOCOLATE BROWN IN COLOR AND COMPOSED OF PARTIALLY DECOMPOSED VEGETABLE MATERIAL. PEAT MOSS TO ALSO BE MILDLY AODIC IN CHARACTER AND SHALL MEET APPROVAL OF LANDSCAPE ARCHITECT.
- LANDSCAPE CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT IN WRITING PRIOR TO BID DATE OF ANY PLANTS THAT HE FEELS MAY NOT SURVIVE TRANSPLANTING OPERATIONS OR IN LOCATIONS NOTED.
- ALL DISTURBED LAWN AREAS SHALL BE SEEDED OR SODDED AS DIRECTED BY OWNER. SEEDED AND SODDED LAWNS SHALL BE SEED MIX "U" FROM INDIANA STATE HIGHWAY SPECIFICATION OR AS APPROVED BY LANDSCAPE ARCHITECT.
- ALL LAWNS SHALL BE GUARANTEED TO HAVE A FULL UNIFORM STAND OF ACCEPTABLE GRASS AT END OF ONE (1) YEAR GUARANTEE PERIOD WITH NO BARE SPOTS COMPRISING MORE THAN 2% OF ANY LAWN AREA. ANY AREA SO NOTED WILL BE SEEDED UNTIL AN ACCEPTABLE STAND OF GRASS IS ESTABLISHED.
- ALL LANDSCAPE PLANTINGS TO BE MAINTAINED FOR A PERIOD UNTIL FINAL INSPECTION BY THE LANDSCAPE ARCHITECT. ALL STAKES AND GUY WIRES MUST BE REMOVED WITHIN ONE YEAR. ALL SODDED LAWN TO BE MAINTAINED FOR A PERIOD UNTIL FINAL INSPECTION BY THE LANDSCAPE CONTRACTOR. MAINTENANCE TO INCLUDE WATERING, WEEDING, CULTIVATING, MULCHING, MOWING AND ALL OTHER NECESSARY OPERATIONS REQUIRED FOR PROPER ESTABLISHMENT OF LAWNS AND PLANTINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WATERING, EVEN IF THE IRRIGATION SYSTEM IS NOT OPERATIONAL AT THE TIME OF PLANTING OR IS NOTED INCLUDED IN CONSTRUCTION.
- CONTRACTOR TO SUBMIT UNIT PRICES ON EVERY TYPE OF WORK AS REQUESTED BY LANDSCAPE ARCHITECT.
- ALL LAWN AREAS WITHIN LAWN LIMIT LINES TO RECEIVE 6" MINIMUM APPROVED TOPSOIL PRIOR TO SEEDING OR SODDING OPERATIONS.
- BACKFILL FOR TREE PLANTING SHALL BE 75% APPROVED TOPSOIL AND 25% APPROVED PLANTERS MIX. TOP LAYER OF BACKFILL SHALL BE 100% EXISTING TOPSOIL. A 5-10-5 ANALYSIS SLOW RELEASE FERTILIZER SHALL BE INCORPORATED INTO BACKFILL AT APPROVED RATES.
- ALL PLANTING BEDS SHALL HAVE A SPADED EDGE TO A DEPTH EQUAL TO SPECIFIED MULCH THICKNESS.

PLANT SCHEDULE

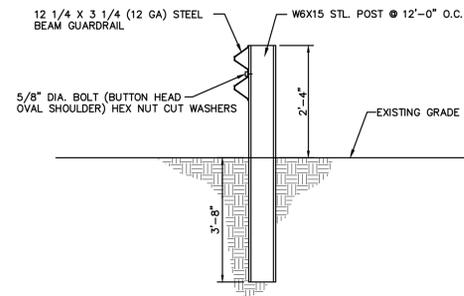
TYPE	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	NOTES
TREES					
Ace-c	Acer saccharum 'Commemoration'	Commemoration Sugar Maple	2.5'	B&B	symmetrical matched
Pla-a	Platanus occidentalis	American sycamore	2.5'	R&B	symmetrical matched
Pic-a	Picea Abies	Norway Spruce	6'	B&B	symmetrical matched
SHRUBS					
Vib-d	Viburnum dentatum	Amorwood Viburnum	24"	container	space @ 4'-0" o.c. allow to mass
GROUNDCOVERS and GRASSES					
Lir-s	Liriope Spicata	Lilytuff	1 gal.	container	space @ 24" o.c. triangular spacing

SNELLING ENGINEERING, LLC
13,295 Illinois Street
Suite 142
Carmel, IN 46032
Ph: (317) 663-3206
Fax: (317) 663-3208
www.snellingeng.com

PROJECT No.	DATE	DRAWN BY	CHECKED BY
120021	08/31/12	GSS	GSS

WESTFIELD-WASHINGTON PUBLIC LIBRARY BUILDING ADDITION
333 WEST HOOVER STREET
WESTFIELD, INDIANA
LANDSCAPE PLAN

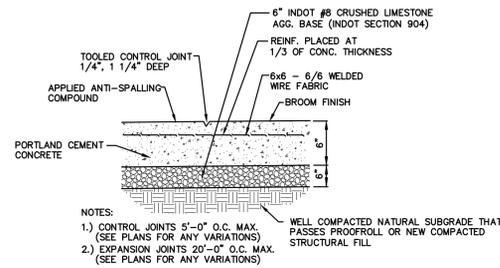
SHEET NO.
C5.1



GUARD RAIL DETAIL

NO SCALE

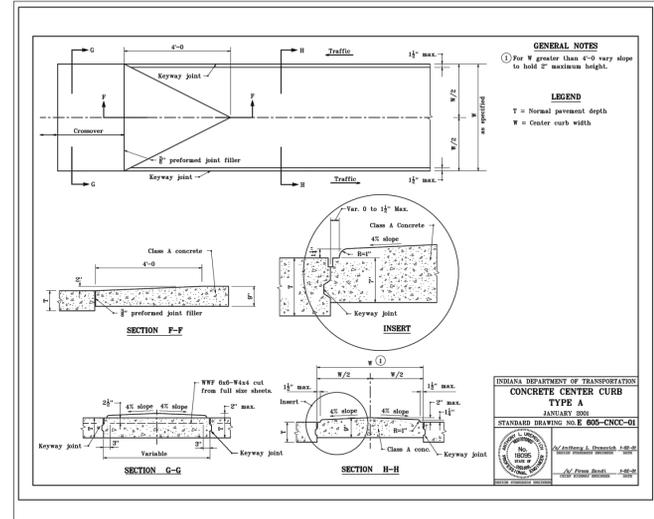
10
C6.1



6\"/>

NO SCALE

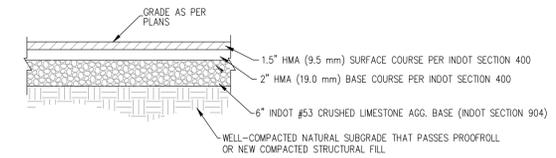
07
C6.1



CONCRETE CENTER CURB DETAIL

NO SCALE

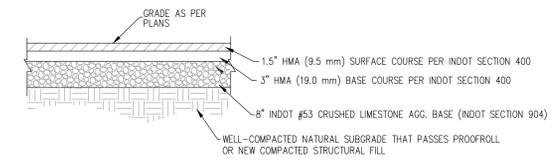
06
C6.1



LIGHT DUTY ASPHALT PAVEMENT SECTION

NO SCALE

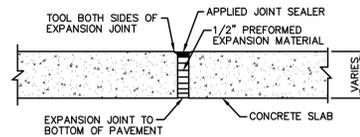
01
C6.1



HEAVY DUTY ASPHALT PAVEMENT SECTION

NO SCALE

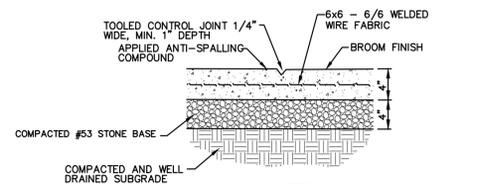
02
C6.1



EXPANSION JOINT DETAIL

NO SCALE

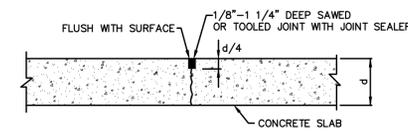
11
C6.1



4\"/>

NO SCALE

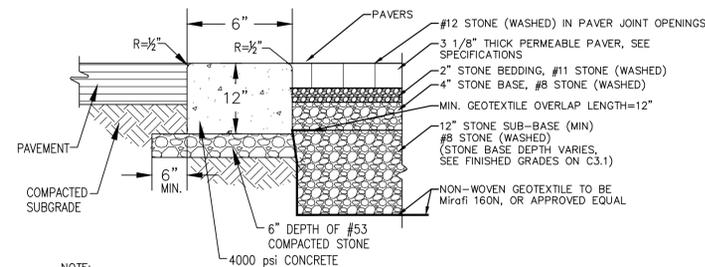
08
C6.1



CONTROL JOINT DETAIL

NO SCALE

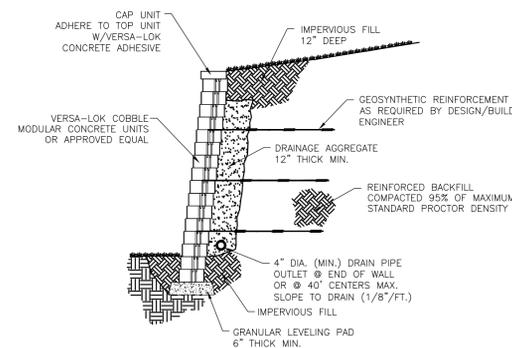
12
C6.1



PERMEABLE PAVER DETAIL

NO SCALE

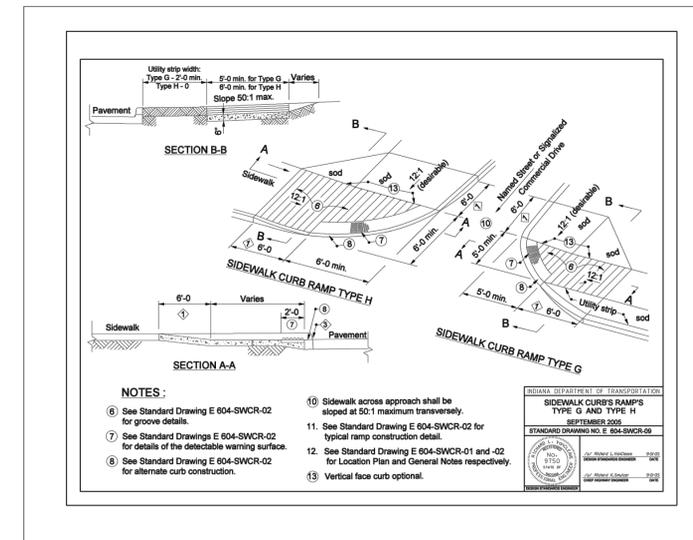
09
C6.1



RETAINING WALL DETAIL

NO SCALE

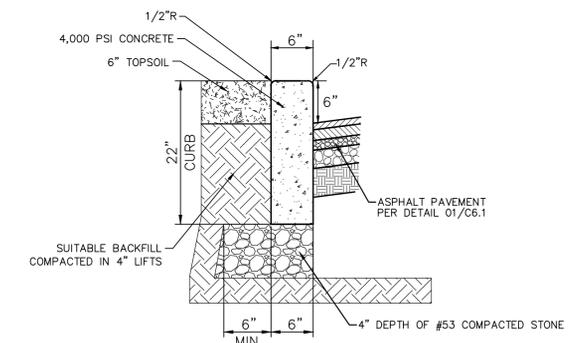
13
C6.1



CURB RAMP DETAILS

NO SCALE

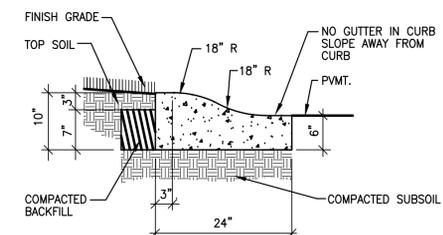
06
C6.1



6\"/>

NO SCALE

03
C6.1



24\"/>

NO SCALE

04
C6.1

SNELLING ENGINEERING, LLC
 13295 Illinois Street
 Suite 142
 Carmel, IN 46032
 Ph: (317) 663-3206
 Fax: (317) 663-3208
 www.snellingeng.com

REVISIONS

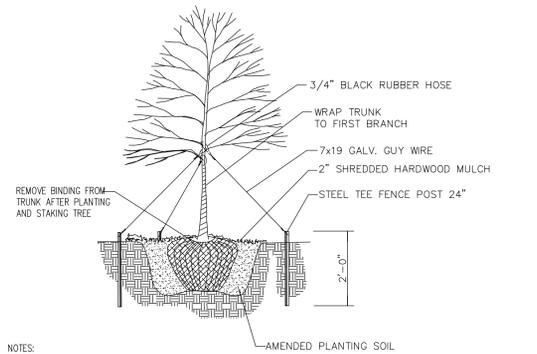
PROJECT No.	120021
DATE	08/31/12
DRAWN BY	GSS
CHECKED BY	GSS

**WESTFIELD PUBLIC LIBRARY
 BUILDING ADDITION
 333 WEST HOOVER STREET
 WESTFIELD, INDIANA**

CONSTRUCTION DETAILS

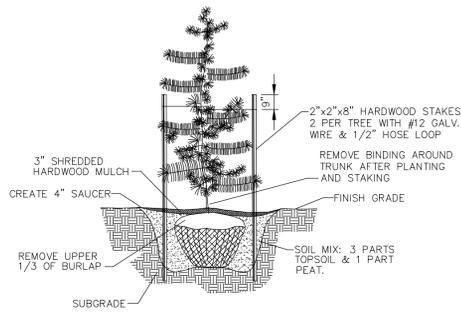
SHEET NO.

C6.1



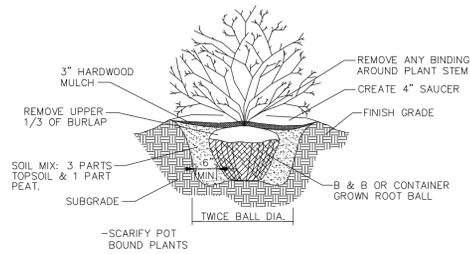
- NOTES:
- HARDWOOD STAKES SHALL BE DRIVEN A MIN. OF 30" INTO THE GROUND.
 - PLANT FLARE ROOT AT GRADE LEVEL.
 - STAKES AND WIRES MUST BE REMOVED WITHIN ONE YEAR.
 - ALL BINDING MUST BE REMOVED AND THE TOP HALF OF THE BURLAP MUST BE REMOVED OR ROLLED BACK ON THE ROOT BALL.

TREE PLANTING DETAIL
NO SCALE



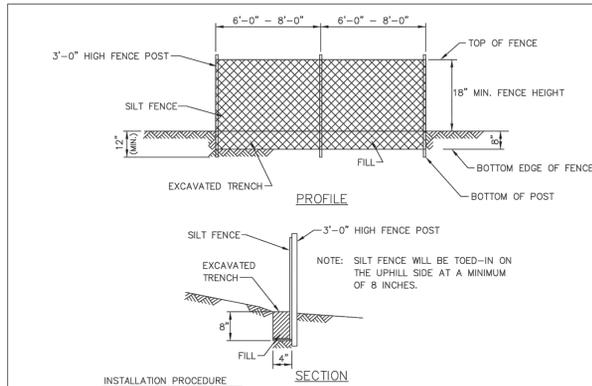
- NOTES:
- HARDWOOD STAKES SHALL BE DRIVEN A MIN. OF 30" INTO THE GROUND.
 - PLANT FLARE ROOT AT GRADE LEVEL.
 - STAKES AND WIRES MUST BE REMOVED WITHIN ONE YEAR.
 - ALL BINDING MUST BE REMOVED AND THE TOP HALF OF THE BURLAP MUST BE REMOVED OR ROLLED BACK ON THE ROOT BALL.

EVERGREEN PLANTING DETAIL
NO SCALE



- NOTES:
- HARDWOOD STAKES SHALL BE DRIVEN A MIN. OF 30" INTO THE GROUND.
 - PLANT FLARE ROOT AT GRADE LEVEL.
 - STAKES AND WIRES MUST BE REMOVED WITHIN ONE YEAR.
 - ALL BINDING MUST BE REMOVED AND THE TOP HALF OF THE BURLAP MUST BE REMOVED OR ROLLED BACK ON THE ROOT BALL.

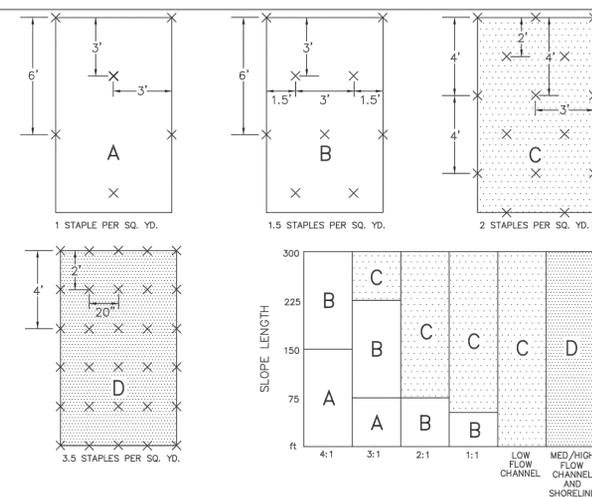
SHRUB PLANTING DETAIL
NO SCALE



- INSTALLATION PROCEDURE**
- 2" x 2" x 36" HARDWOOD OR STEEL FENCE POSTS ARE INSTALLED 6' APART (w/ EXTRA STRENGTH FABRIC WITHOUT WIRE BACKING) OR 8' APART (w/ WIRE BACKING), ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE.
 - A TRENCH 4" WIDE BY 8" DEEP IS DUG ALONG THE UPHILL SIDE OF THE FENCE LINE.
 - THE SILT FENCE IS UNROLLED AND LAID OUT ALONG THE FENCE LINE.
 - A BUILT-IN ATTACHMENT CORD RUNS THROUGHOUT THE FULL LENGTH OF EACH 150 LINEAR FOOT ROLL. ONE END OF THE ROLL HAS APPROXIMATELY 5' OF CORD. THE OTHER END HAS APPROXIMATELY 20' OF CORD. THE END WITH 5' OF CORD IS WRAPPED AROUND THE FIRST POST AND SECURED.
 - THE FENCE IS PULLED TO THE NEXT POST AND A 1.5" SLIT IS MADE IN THE HEM DIRECTLY ABOVE THE CORD. THE CORD IS PULLED OUT OF THE HEM AND PULLED TAUT FROM THE PRECEDING POST AND WRAPPED TWICE AROUND THE POST.
 - THE SLITTING OF THE HEM ON EACH POST IS REPEATED UNTIL THE FINAL POST IS REACHED, AT WHICH TIME THE MATERIAL IS WRAPPED AROUND THE LAST POST AND SECURED WITH THE ENCLOSED CORD.
 - AT THIS TIME THE LOWER 8" OF THE FENCE IS LAID IN THE TRENCH AND CURLED TOWARD THE EROSION SOURCE. THE TRENCH IS THEN BACKFILLED WITH SOIL.

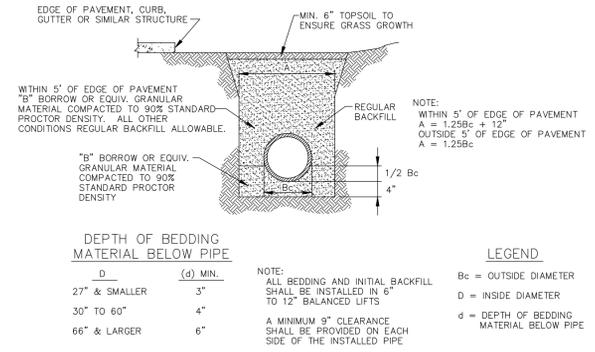
SILT FENCE DETAIL

Westfield PUBLIC WORKS logo, REGISTERED PROFESSIONAL ENGINEER No. 10403860 STATE OF INDIANA, *Renée Lynn Hoff* 4/10/06 DATE, TOWN OF WESTFIELD, INDIANA, FIGURE EC-4



EROSION CONTROL MAT – STAPLE GUIDE

Westfield PUBLIC WORKS logo, REGISTERED PROFESSIONAL ENGINEER No. 10403860 STATE OF INDIANA, *Renée Lynn Hoff* 4/10/06 DATE, TOWN OF WESTFIELD, INDIANA, FIGURE EC-3



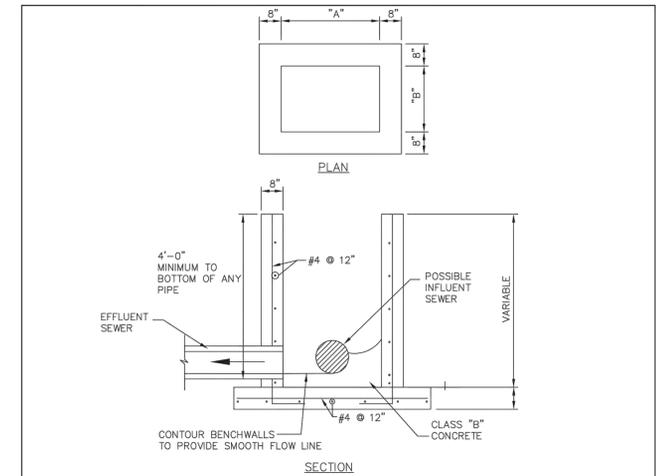
REINFORCED CONCRETE PIPE (RCP) TRENCH DETAIL
NO SCALE

DEPTH OF BEDDING MATERIAL BELOW PIPE

D	(d) MIN.
27" & SMALLER	3"
30" TO 60"	4"
66" & LARGER	6"

LEGEND

Bc = OUTSIDE DIAMETER
D = INSIDE DIAMETER
d = DEPTH OF BEDDING MATERIAL BELOW PIPE



CAST	"A"	"B"
TYPE 1	36"(0.91m)	24"(0.61m)
TYPE 2	24"(0.61m)	22"(0.56m)
TYPE 3	22"(0.56m)	20"(0.51m)

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

INLET STRUCTURE TYPE 1A

Westfield PUBLIC WORKS logo, REGISTERED PROFESSIONAL ENGINEER No. 10403860 STATE OF INDIANA, *Renée Lynn Hoff* 4/10/06 DATE, TOWN OF WESTFIELD, INDIANA, FIGURE ST-11

SNELLING ENGINEERING, LLC
13 295 Illinois Street
Suite 142
Carmel, IN 46032
Ph: (317) 663-3206
Fax: (317) 663-3206
www.snellingeng.com

REVISIONS

PROJECT No.	DATE	DRAWN BY	CHECKED BY
120021	08/31/12	GSS	GSS

WESTFIELD PUBLIC LIBRARY BUILDING ADDITION
333 WEST HOOVER STREET
WESTFIELD, INDIANA
CONSTRUCTION DETAILS

SHEET NO.

C6.2