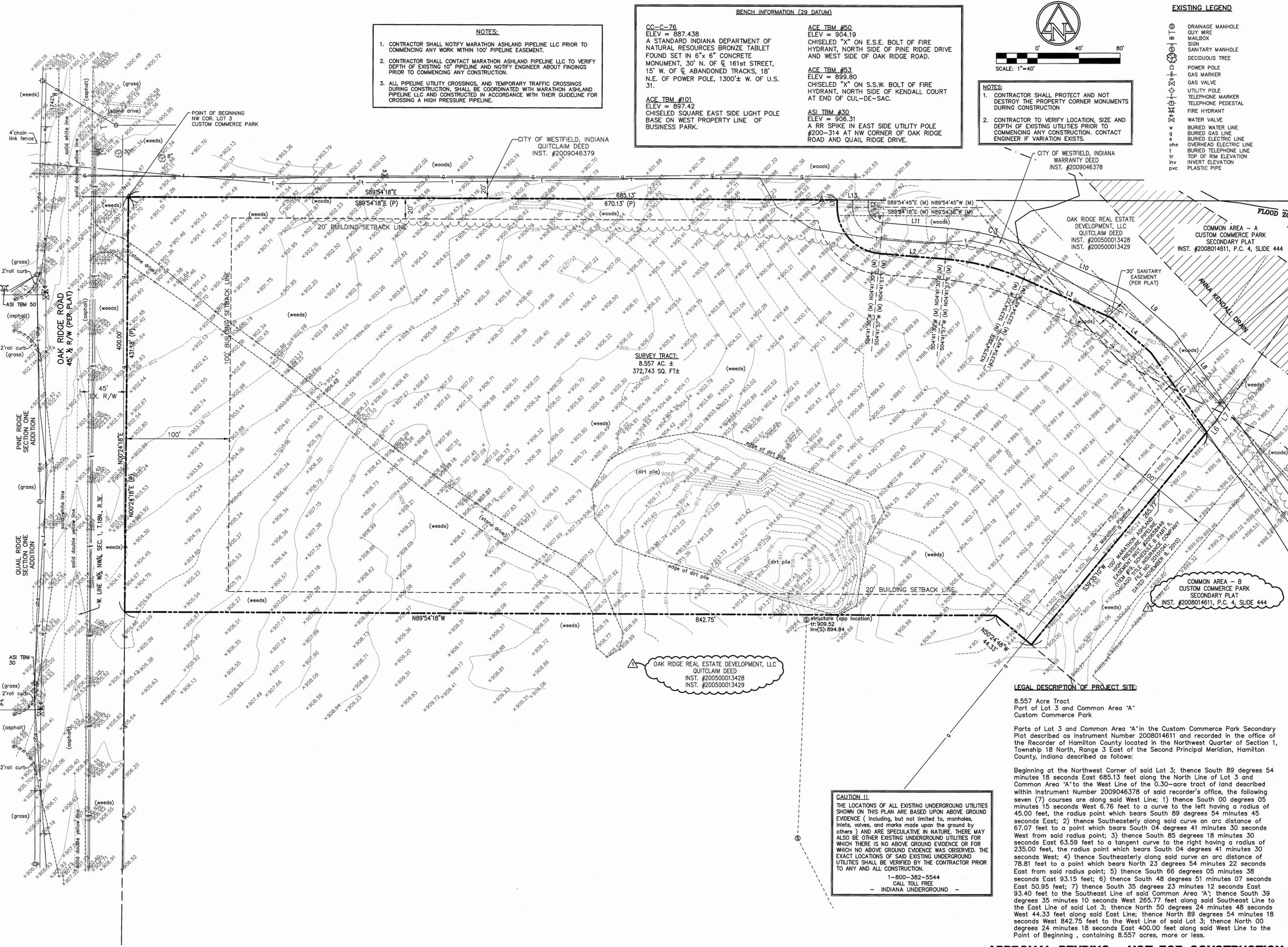


PLOT SCALE: 1:2,584.9 EDIT DATE: 10/16/09 8:25 AM EDITED BY: BSCHERER DRAWING FILE: P:\2010\01088\01.DRAWINGS\CIVIL\PLAN SET\201001088.CE.02.C01.1.EXISTING_TOPOGRAPHY.DWG



- NOTES:**
- CONTRACTOR SHALL NOTIFY MARATHON ASHLAND PIPELINE LLC PRIOR TO COMMENCING ANY WORK WITHIN 100' PIPELINE EASEMENT.
 - CONTRACTOR SHALL CONTACT MARATHON ASHLAND PIPELINE LLC TO VERIFY DEPTH OF EXISTING 10" PIPELINE AND NOTIFY ENGINEER ABOUT FINDINGS PRIOR TO COMMENCING ANY CONSTRUCTION.
 - ALL PIPELINE UTILITY CROSSINGS, AND TEMPORARY TRAFFIC CROSSINGS DURING CONSTRUCTION, SHALL BE COORDINATED WITH MARATHON ASHLAND PIPELINE LLC AND CONSTRUCTED IN ACCORDANCE WITH THEIR GUIDELINE FOR CROSSING A HIGH PRESSURE PIPELINE.

BENCH INFORMATION (29 DATUM)

CC-C-76
ELEV = 887.438
A STANDARD INDIANA DEPARTMENT OF NATURAL RESOURCES BRONZE TABLE FOUND SET IN 6" x 6" CONCRETE MONUMENT, 30' N. OF 161st STREET, 15' W. OF 161st STREET, 18' N.E. OF POWER POLE, 1300'± W. OF U.S. 31.

ACE TBM #50
ELEV = 906.19
CHISELED "X" ON E.S.E. BOLT OF FIRE HYDRANT, NORTH SIDE OF PINE RIDGE DRIVE AND WEST SIDE OF OAK RIDGE ROAD.

ACE TBM #53
ELEV = 899.80
CHISELED "X" ON S.S.W. BOLT OF FIRE HYDRANT, NORTH SIDE OF KENDALL COURT AT END OF CUL-DE-SAC.

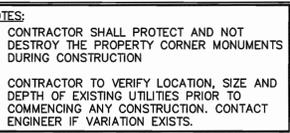
ASI TBM #30
ELEV = 906.31
A RR SPIKE IN EAST SIDE UTILITY POLE. #200-314 AT NW CORNER OF OAK RIDGE ROAD AND QUAIL RIDGE DRIVE.

EXISTING LEGEND

- DRAINAGE MANHOLE
- GUY WIRE
- MAILBOX
- SIGN
- SANITARY MANHOLE
- DECIDUOUS TREE
- POWER POLE
- GAS MARKER
- GAS VALVE
- UTILITY POLE
- TELEPHONE MARKER
- TELEPHONE PEDESTAL
- FIRE HYDRANT
- WATER VALVE
- BURIED WATER LINE
- BURIED GAS LINE
- BURIED ELECTRIC LINE
- OVERHEAD ELECTRIC LINE
- BURIED TELEPHONE LINE
- TOP OF RIM ELEVATION
- INVERT ELEVATION
- PLASTIC PIPE

NOTES:

- CONTRACTOR SHALL PROTECT AND NOT DESTROY THE PROPERTY CORNER MONUMENTS DURING CONSTRUCTION
- CONTRACTOR TO VERIFY LOCATION, SIZE AND DEPTH OF EXISTING UTILITIES PRIOR TO COMMENCING ANY CONSTRUCTION. CONTACT ENGINEER IF VARIATION EXISTS.



AMERICAN STRUCTUREPOINT INC.

2760 SHADELAND STATION
GUY WIRE
MAILBOX
SIGN
SANITARY MANHOLE
DECIDUOUS TREE
POWER POLE
GAS MARKER
GAS VALVE
UTILITY POLE
TELEPHONE MARKER
TELEPHONE PEDESTAL
FIRE HYDRANT
WATER VALVE
BURIED WATER LINE
BURIED GAS LINE
BURIED ELECTRIC LINE
OVERHEAD ELECTRIC LINE
BURIED TELEPHONE LINE
TOP OF RIM ELEVATION
INVERT ELEVATION
PLASTIC PIPE

17397 OAK RIDGE ROAD
WESTFIELD, IN 46074

9001 EAST 133RD PLACE
FISHERS, IN 46038

EXISTING TOPOGRAPHY

PREPARED FOR:
AUTOMATIC POOL COVERS

CERTIFIED BY

DATE: 02/24/2011
DRAWN BY: J.H.
CHK'D BY: T.M.
JOB NO.: 201001088

REVISIONS

△	TAC	04/01/11
---	-----	----------

SHEET NO.
C11
OF

LEGAL DESCRIPTION OF PROJECT SITE:

8.557 Acre Tract
Part of Lot 3 and Common Area "A"
Custom Commerce Park

Parts of Lot 3 and Common Area "A" in the Custom Commerce Park Secondary Plat described as Instrument Number 2008014611 and recorded in the office of the Recorder of Hamilton County located in the Northwest Quarter of Section 1, Township 18 North, Range 3 East of the Second Principal Meridian, Hamilton County, Indiana described as follows:

Beginning at the Northwest Corner of said Lot 3; thence South 89 degrees 54 minutes 18 seconds East 685.13 feet along the North Line of Lot 3 and Common Area "A" to the West Line of the 0.30-acre tract of land described within Instrument Number 2009046378 of said recorder's office, the following seven (7) courses are along said West Line; 1) thence South 00 degrees 05 minutes 15 seconds West 6.76 feet to a curve to the left having a radius of 45.00 feet, the radius point which bears South 89 degrees 54 minutes 45 seconds East; 2) thence Southeasterly along said curve an arc distance of 67.07 feet to a point which bears South 04 degrees 41 minutes 30 seconds West from said radius point; 3) thence South 85 degrees 18 minutes 30 seconds East 63.59 feet to a tangent curve to the right having a radius of 235.00 feet, the radius point which bears South 04 degrees 41 minutes 30 seconds West; 4) thence Southeasterly along said curve an arc distance of 78.81 feet to a point which bears North 23 degrees 54 minutes 22 seconds East from said radius point; 5) thence South 66 degrees 05 minutes 38 seconds East 93.15 feet; 6) thence South 48 degrees 51 minutes 07 seconds East 50.95 feet; 7) thence South 35 degrees 23 minutes 12 seconds East 93.40 feet to the Southeast Line of said Common Area "A"; thence South 39 degrees 35 minutes 10 seconds West 265.77 feet along said Southeast Line to the East Line of said Lot 3; thence North 50 degrees 24 minutes 48 seconds West 44.33 feet along said East Line; thence North 89 degrees 54 minutes 18 seconds West 842.75 feet to the West Line of said Lot 3; thence North 00 degrees 24 minutes 18 seconds East 400.00 feet along said West Line to the Point of Beginning, containing 8.557 acres, more or less.

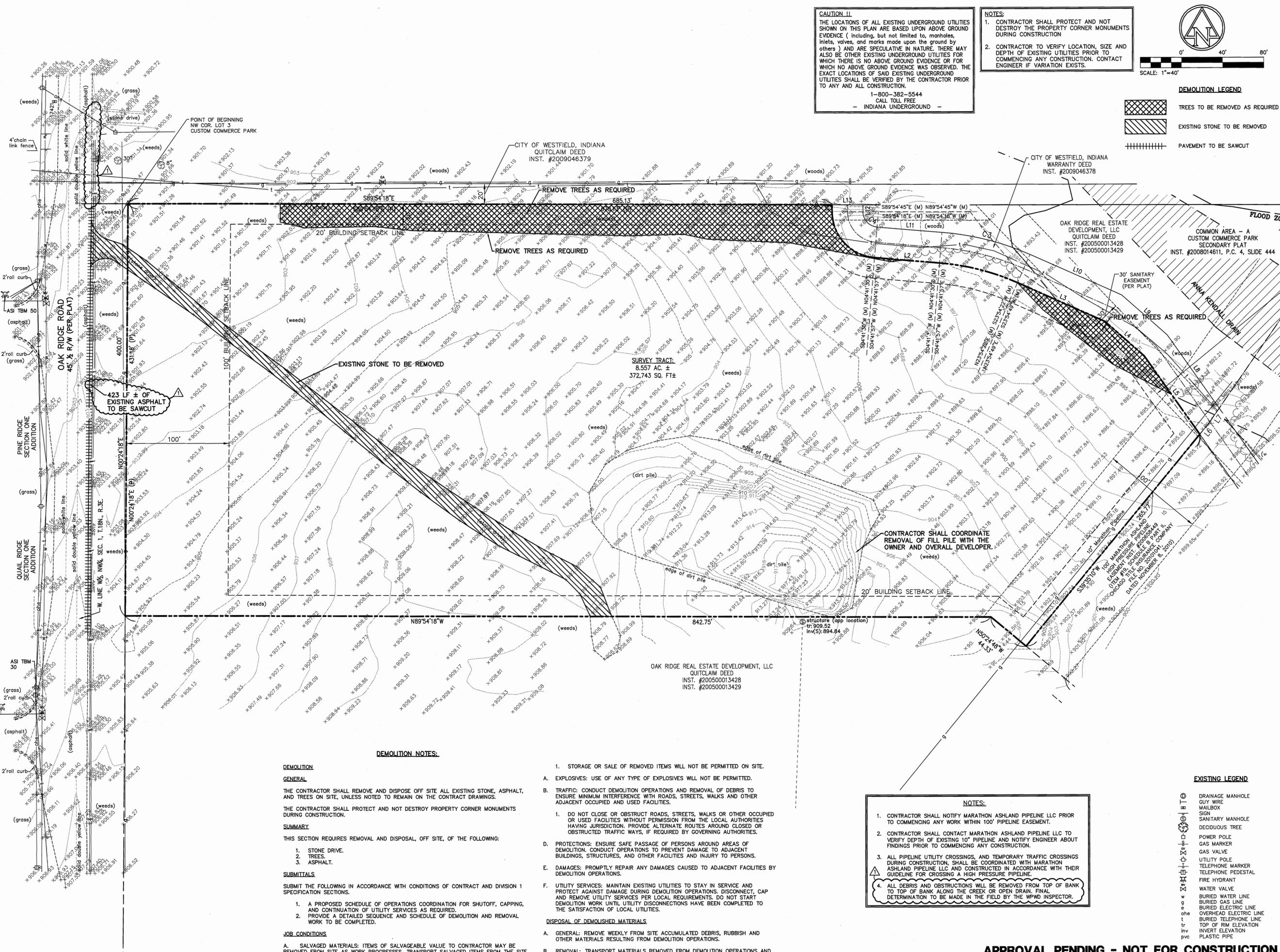
CAUTION !!

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 -

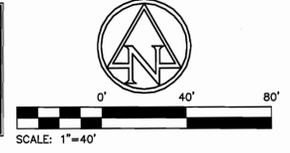
APPROVAL PENDING - NOT FOR CONSTRUCTION

PLOT SCALE: 1:2,500 EDIT DATE: 10/16/09 3:30 PM EDITED BY: KENDRICK DRAWING FILE: P:\2010\01088\DRAWINGS\CIVIL\PLAN SET\201001088\CE.03.C01.2.DEMOLITION_PLAN.DWG



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 -

NOTES:
1. CONTRACTOR SHALL PROTECT AND NOT DESTROY THE PROPERTY CORNER MONUMENTS DURING CONSTRUCTION
2. CONTRACTOR TO VERIFY LOCATION, SIZE AND DEPTH OF EXISTING UTILITIES PRIOR TO COMMENCING ANY CONSTRUCTION. CONTACT ENGINEER IF VARIATION EXISTS.



DEMOLITION LEGEND
[Hatched pattern] TREES TO BE REMOVED AS REQUIRED
[Diagonal lines] EXISTING STONE TO BE REMOVED
[Dashed lines] PAVEMENT TO BE SAWCUT

2560 SHADLAND STATION
INDIANAPOLIS, IN 46218
TEL: 317.597.6590 FAX: 317.593.9270
www.structurepoint.com

AMERICAN
STRUCTUREPOINT
INC.

CERTIFIED BY

PREPARED FOR:
AUTOMATIC POOL COVERS
9001 EAST 133RD PLACE
FISHERS, IN 46038

PROJECT:
AUTOMATIC POOL COVERS
17397 OAK RIDGE ROAD
WESTFIELD, IN 46074

DATE:	02/24/2011
DRAWN BY:	JJH
CHK'D BY:	TJM
JOB NO.	201001088
REVISIONS	
Δ TAC	04/01/11

SHEET NO.
C1.2
OF

DEMOLITION NOTES:

DEMOLITION GENERAL
THE CONTRACTOR SHALL REMOVE AND DISPOSE OFF SITE ALL EXISTING STONE, ASPHALT, AND TREES ON SITE, UNLESS NOTED TO REMAIN ON THE CONTRACT DRAWINGS.
THE CONTRACTOR SHALL PROTECT AND NOT DESTROY PROPERTY CORNER MONUMENTS DURING CONSTRUCTION.

SUMMARY
THIS SECTION REQUIRES REMOVAL AND DISPOSAL, OFF SITE, OF THE FOLLOWING:
1. STONE DRIVE.
2. TREES.
3. ASPHALT.

SUBMITTALS
SUBMIT THE FOLLOWING IN ACCORDANCE WITH CONDITIONS OF CONTRACT AND DIVISION 1 SPECIFICATION SECTIONS.
1. A PROPOSED SCHEDULE OF OPERATIONS COORDINATION FOR SHUTOFF, CAPPING, AND CONTINUATION OF UTILITY SERVICES AS REQUIRED.
2. PROVIDE A DETAILED SEQUENCE AND SCHEDULE OF DEMOLITION AND REMOVAL WORK TO BE COMPLETED.

JOB CONDITIONS
A. SALVAGED MATERIALS: ITEMS OF SALVAGEABLE VALUE TO CONTRACTOR MAY BE REMOVED FROM SITE AS WORK PROGRESSES. TRANSPORT SALVAGED ITEMS FROM THE SITE AS THEY ARE REMOVED.

1. STORAGE OR SALE OF REMOVED ITEMS WILL NOT BE PERMITTED ON SITE.
- A. EXPLOSIVES: USE OF ANY TYPE OF EXPLOSIVES WILL NOT BE PERMITTED.
- B. TRAFFIC: CONDUCT DEMOLITION OPERATIONS AND REMOVAL OF DEBRIS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS AND OTHER ADJACENT OCCUPIED AND USED FACILITIES.
1. DO NOT CLOSE OR OBSTRUCT ROADS, STREETS, WALKS OR OTHER OCCUPIED OR USED FACILITIES WITHOUT PERMISSION FROM THE LOCAL AUTHORITIES HAVING JURISDICTION. PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS, IF REQUIRED BY GOVERNING AUTHORITIES.
- D. PROTECTIONS: ENSURE SAFE PASSAGE OF PERSONS AROUND AREAS OF DEMOLITION. CONDUCT OPERATIONS TO PREVENT DAMAGE TO ADJACENT BUILDINGS, STRUCTURES, AND OTHER FACILITIES AND INJURY TO PERSONS.
- E. DAMAGES: PROMPTLY REPAIR ANY DAMAGES CAUSED TO ADJACENT FACILITIES BY DEMOLITION OPERATIONS.
- F. UTILITY SERVICES: MAINTAIN EXISTING UTILITIES TO STAY IN SERVICE AND PROTECT AGAINST DAMAGE DURING DEMOLITION OPERATIONS. DISCONNECT, CAP AND REMOVE UTILITY SERVICES PER LOCAL REQUIREMENTS. DO NOT START DEMOLITION WORK UNTIL UTILITY DISCONNECTIONS HAVE BEEN COMPLETED TO THE SATISFACTION OF LOCAL UTILITIES.
- DISPOSAL OF DEMOLISHED MATERIALS**
- A. GENERAL: REMOVE WEEKLY FROM SITE ACCUMULATED DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM DEMOLITION OPERATIONS.
- B. REMOVAL: TRANSPORT MATERIALS REMOVED FROM DEMOLITION OPERATIONS AND LEGALLY DISPOSE OF OFF-SITE.

NOTES:

1. CONTRACTOR SHALL NOTIFY MARATHON ASHLAND PIPELINE LLC PRIOR TO COMMENCING ANY WORK WITHIN 100' PIPELINE EASEMENT.
2. CONTRACTOR SHALL CONTACT MARATHON ASHLAND PIPELINE LLC TO VERIFY DEPTH OF EXISTING 10" PIPELINE AND NOTIFY ENGINEER ABOUT FINDINGS PRIOR TO COMMENCING ANY CONSTRUCTION.
3. ALL PIPELINE UTILITY CROSSINGS, AND TEMPORARY TRAFFIC CROSSINGS DURING CONSTRUCTION, SHALL BE COORDINATED WITH MARATHON ASHLAND PIPELINE LLC AND CONSTRUCTED IN ACCORDANCE WITH THEIR GUIDELINE FOR CROSSING A HIGH PRESSURE PIPELINE.
4. ALL DEBRIS AND OBSTRUCTIONS WILL BE REMOVED FROM TOP OF BANK TO TOP OF BANK ALONG THE CREEK OR OPEN DRAIN. FINAL DETERMINATION TO BE MADE IN THE FIELD BY THE WPD INSPECTOR.

EXISTING LEGEND

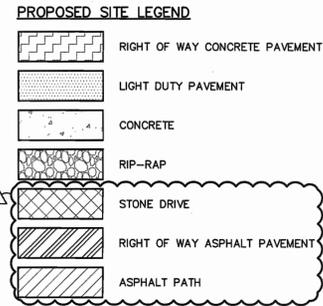
- ⊕ DRAINAGE MANHOLE
- ⊕ GUY WIRE
- ⊕ MAILBOX
- ⊕ SIGN
- ⊕ SANITARY MANHOLE
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- ⊕ POWER POLE
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- ⊕ OVERHEAD ELECTRIC LINE
- ⊕ BURIED TELEPHONE LINE
- tr TOP OF RIM ELEVATION
- inv INVERT ELEVATION
- ⊕ PLASTIC PIPE

APPROVAL PENDING - NOT FOR CONSTRUCTION

PLOT SCALE: 1:2,500 EDIT DATE: 10/16/09 - 8:26 AM EDITED BY: BSCHERER DRAWING FILE: P:\2010\01088\01.DRAWINGS\CIVIL\PLAN SET\201001088.CE.04.C02.1.SITE_PLAN.DWG

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- (A) 6" EXTRUDED CONCRETE CURB
- (B) 2' CONCRETE CURB & GUTTER
- (C) COMBINED WALK & CURB
- (D) CONCRETE SIDEWALK
- (E) PRECAST CONCRETE PARKING BARRIER
- (F) 4" SOLID WHITE, PAINT LINE
- (G) 24" STOP BAR, WHITE, THERMOPLASTIC
- (H) 4" SOLID BLUE, PAINT LINE (A.D.A. SPACE)
- (I) ADA PARKING SIGN (VAN ACCESSIBLE AS NOTED)
- (J) A.D.A. RAMP (TYPE "K")
- (K) STOP SIGN
- (L) A.D.A. PAVEMENT MARKING
- (M) 6" INTEGRAL CONCRETE CURB
- (N) BOLLARD
- (P) PEDESTRIAN CROSS WALK

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 CALL TOLL FREE
 - INDIANA UNDERGROUND -

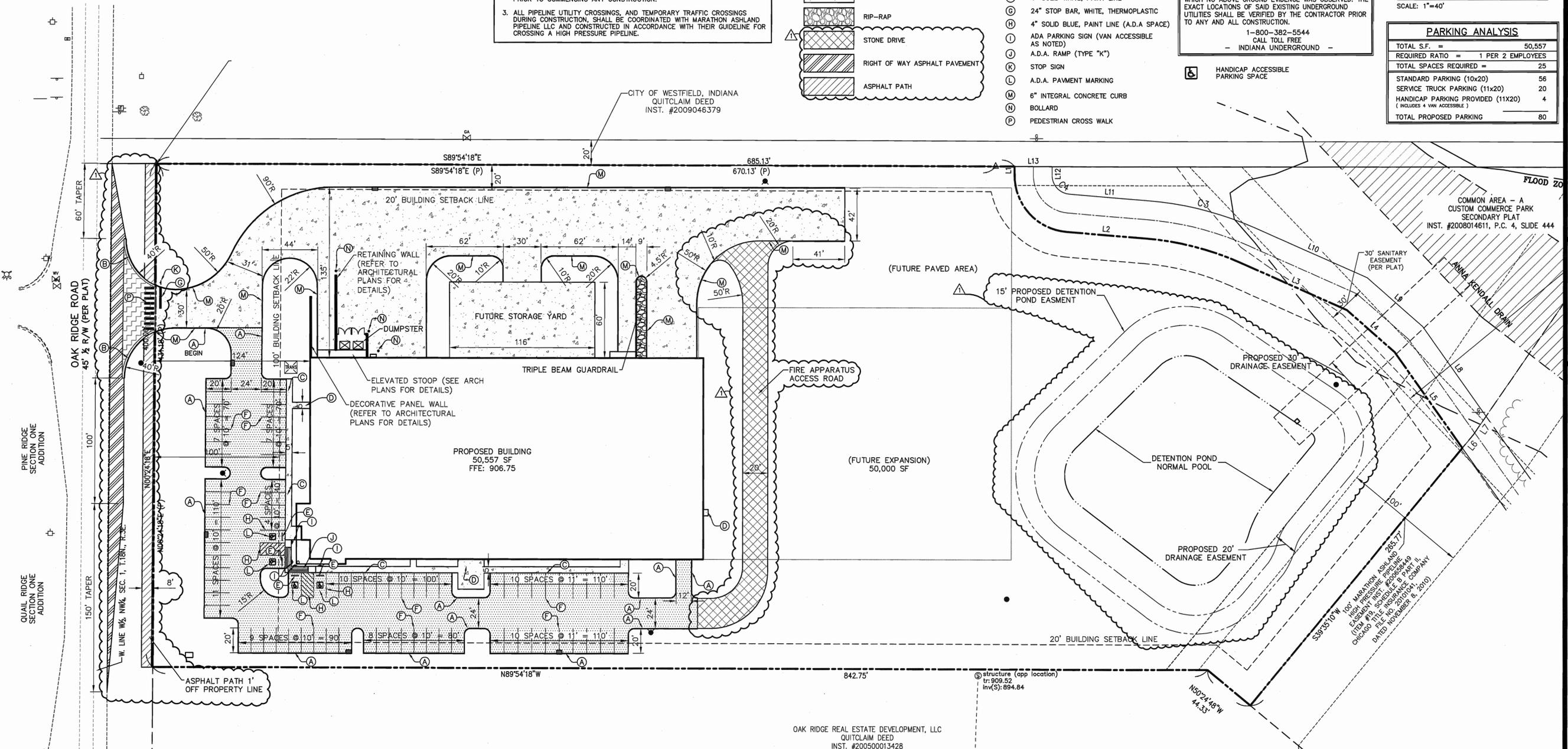
SCALE: 1"=40'

PARKING ANALYSIS	
TOTAL S.F. =	50,557
REQUIRED RATIO =	1 PER 2 EMPLOYEES
TOTAL SPACES REQUIRED =	25
STANDARD PARKING (10x20)	56
SERVICE TRUCK PARKING (11x20)	20
HANDICAP PARKING PROVIDED (11x20) (INCLUDES 4 VAN ACCESSIBLE)	4
TOTAL PROPOSED PARKING	80

7880 SHADELAND STATION
 INDIANAPOLIS, IN 46256-9577
 TEL 317.547.2500
 WWW.STRUCTUREPOINT.COM

AMERICAN
STRUCTUREPOINT
 INC.

INDEPENDENT REGISTERED PROFESSIONAL ENGINEER
 No. 10708270
 STATE OF INDIANA
 CERTIFIED BY



- SITE NOTES**
- ALL WORK TO CONFORM TO STATE AND LOCAL REGULATIONS.
 - ALL PARKING STRIPES ARE TO BE 4" PAINTED (WHITE). HANDICAPPED ACCESS AISLES SHALL BE 4" PAINTED (BLUE).
 - ALL DIMENSIONS ARE TO EDGE OF PAVEMENT OR FACE OF CURB, UNLESS NOTED OTHERWISE.
 - ALL DIMENSIONS ARE TO FACE OF BRICK OR FACING MATERIAL, WHERE APPLICABLE.
 - ALL DIMENSIONS ARE PARALLEL WITH, OR PERPENDICULAR TO BASE LINES, PROPERTY LINES OR BUILDING LINES UNLESS NOTED OTHERWISE.
 - THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD DIMENSIONS. IF ANY DISCREPANCIES ARE FOUND IN THESE PLANS FROM ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
 - PROVIDE SMOOTH TRANSITIONS FROM NEW AREAS TO EXISTING FEATURES AS NECESSARY.
 - ALL EXCAVATED AREAS SHALL BE SEEDED AFTER FINISH GRADING UNLESS OTHERWISE NOTED. ALL NEW SEEDED AREAS SHALL HAVE A MINIMUM OF 4" OF TOP SOIL.
 - RESURFACE OR RECONSTRUCT AT LEAST TO ORIGINAL CONDITIONS ALL AREAS WHERE THE EXISTING PAVEMENT OR LAWNS ARE DAMAGED DURING CONSTRUCTION FROM TRAFFIC BY CONTRACTORS, SUBCONTRACTORS OR SUPPLIERS AFTER CONSTRUCTION WORK IS COMPLETE.
 - THE EDGE OF EXISTING ASPHALT PAVEMENT SHALL BE PROPERLY SEALED WITH A TACK COAT MATERIAL IN ALL AREAS WHERE NEW ASPHALT PAVEMENT IS INDICATED TO JOIN EXISTING ASPHALT.
 - ALL UTILITY TRENCHES WITHIN 5 FEET OF PAVEMENT SHALL BE COMPLETELY BACKFILLED WITH GRANULAR MATERIAL.
 - ALL ASPHALT TO BE IN ACCORDANCE WITH I.N.D.O.T. STANDARD SPECIFICATIONS RELATIVE TO MATERIAL, MIX, PLACEMENT AND WORKMANSHIP.
 - CHAMFER ENDS OF ALL CURBS.
 - SEE ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS.
 - ALL SIDEWALKS SHALL COMPLY WITH A.D.A. STANDARDS, MAX. CROSS SLOPE OF 1:50 & MAX. SLOPE OF 1:20.
 - EXISTING PAVEMENT TO BE SAWCUT IN ALL AREAS WHERE INDICATED NEW PAVEMENT TO JOIN EXISTING.
 - ALL CURB RADII ARE 5' UNLESS OTHERWISE NOTED.

NOTES:

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- CONTRACTOR TO VERIFY LOCATION, SIZE AND DEPTH OF EXISTING UTILITIES PRIOR TO COMMENCING ANY CONSTRUCTION. CONTACT ENGINEER IF VARIATION EXISTS.

LEGAL DESCRIPTION OF PROJECT SITE:

8.557 Acre Tract
 Part of Lot 3 and Common Area "A"
 Custom Commerce Park

Parts of Lot 3 and Common Area "A" in the Custom Commerce Park Secondary Plat described as Instrument Number 2008014611 and recorded in the office of the Recorder of Hamilton County located in the Northwest Quarter of Section 1, Township 18 North, Range 3 East of the Second Principal Meridian, Hamilton County, Indiana described as follows:

Beginning at the Northwest Corner of said Lot 3; thence South 89 degrees 54 minutes 18 seconds East 685.13 feet along the North Line of Lot 3 and Common Area "A" to the West Line of the 0.30-acre tract of land described within Instrument Number 2009046378 of said recorder's office, the following seven (7) courses are along said West Line; 1) thence South 00 degrees 05 minutes 15 seconds West 6.76 feet to a curve to the left having a radius of 45.00 feet, the radius point which bears South 89 degrees 54 minutes 45 seconds East; 2) thence Southeasterly along said curve an arc distance of 67.07 feet to a point which bears South 04 degrees 41 minutes 30 seconds West from said radius point; 3) thence South 85 degrees 18 minutes 30 seconds East 63.59 feet to a tangent curve to the right having a radius of 235.00 feet, the radius point which bears South 04 degrees 41 minutes 30 seconds West; 4) thence Southeasterly along said curve an arc distance of 78.81 feet to a point which bears North 23 degrees 54 minutes 22 seconds East from said radius point; 5) thence South 66 degrees 05 minutes 38 seconds East 93.15 feet; 6) thence South 48 degrees 51 minutes 07 seconds East 50.95 feet; 7) thence South 35 degrees 23 minutes 12 seconds East 93.40 feet to the Southeast Line of said Common Area "A"; thence South 39 degrees 35 minutes 10 seconds West 265.77 feet along said Southeast Line to the East Line of said Lot 3; thence North 50 degrees 24 minutes 48 seconds West 44.33 feet along said East Line; thence North 89 degrees 54 minutes 18 seconds West 842.75 feet to the West Line of said Lot 3; thence North 00 degrees 24 minutes 18 seconds East 400.00 feet along said West Line to the Point of Beginning, containing 8.557 acres, more or less.

SITE PLAN

PREPARED FOR:
AUTOMATIC POOL COVERS
 9001 EAST 133RD PLACE
 FISHERS, IN 46038

PROJECT:
AUTOMATIC POOL COVERS
 17397 OAK RIDGE ROAD
 WESTFIELD, IN 46074

DATE:	02/24/2011
DRAWN BY:	JUH
CHK'D BY:	TMJ
JOB NO.:	201001088

REVISIONS	
Δ TAC	04/01/11

SHEET NO.
C2.1
 OF

APPROVAL PENDING - NOT FOR CONSTRUCTION

NOTES:

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- WATER LINE MUST BE BORED UNDER OAK RIDGE ROAD.
- ALL SANITARY SEWER LATERALS MUST HAVE LOCATE WIRE R/W WHEN INSTALLING THE LINE.

BENCH INFORMATION (29 DATUM)

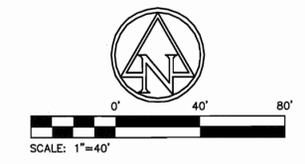
CC-C-76
ELEV = 887.438
A STANDARD INDIANA DEPARTMENT OF NATURAL RESOURCES BRONZE TABLET FOUND SET IN 6"x 6" CONCRETE MONUMENT, 30' N. OF Q 161st STREET, 15' W. OF Q ABANDONED TRACKS, 18' N.E. OF POWER POLE, 1300'± W. OF U.S. 31.

ACE TBM #101
ELEV = 897.42
CHISELED SQUARE EAST SIDE LIGHT POLE BASE ON WEST PROPERTY LINE OF BUSINESS PARK.

ACE TBM #50
ELEV = 904.19
CHISELED "X" ON E.S.E. BOLT OF FIRE HYDRANT, NORTH SIDE OF PINE RIDGE DRIVE AND WEST SIDE OF OAK RIDGE ROAD.

ACE TBM #53
ELEV = 899.80
CHISELED "X" ON S.W. BOLT OF FIRE HYDRANT, NORTH SIDE OF KENDALL COURT AT END OF CUL-DE-SAC.

ASI TBM #30
ELEV = 906.31
A RR SPIKE IN EAST SIDE UTILITY POLE #200-314 AT NW CORNER OF OAK RIDGE ROAD AND QUAIL RIDGE DRIVE.



PROPOSED UTILITY LEGEND		EXISTING LEGEND	
San. Sewer	SANITARY SEWER LINE	⊕	DRAINAGE MANHOLE
G	GAS LINE	⊕	GUY WIRE
E	ELECTRIC LINE	⊕	MAILBOX
T	TELEPHONE LINE	⊕	SIGN
W	WATER LINE	⊕	SANITARY MANHOLE
⊕	GAS METER	⊕	DECIDUOUS TREE
⊕	ELECTRICAL TRANSFORMER	⊕	POWER POLE
⊕	VALVE	⊕	GAS MARKER
⊕	WATER METER PIT	⊕	GAS VALVE
⊕	HYDRANT	⊕	UTILITY POLE
⊕	MANHOLE	⊕	TELEPHONE MARKER
		⊕	TELEPHONE PEDESTAL
		⊕	FIRE HYDRANT
		⊕	WATER VALVE
		w	BURIED WATER LINE
		g	BURIED GAS LINE
		e	BURIED ELECTRIC LINE
		ohe	OVERHEAD ELECTRIC LINE
		t	BURIED TELEPHONE LINE
		tr	TOP OF RIM ELEVATION
		trv	INVERT ELEVATION
		pvc	PLASTIC PIPE

7260 SHADELAND STATION
INDIANAPOLIS, IN 46266-3957
TEL. 317.547.5580 FAX 317.546.0270
www.structurepoint.com

AMERICAN
STRUCTUREPOINT
INC.

TIMOTHY M. JENSEN
REGISTERED
No. 10708270
STATE OF INDIANA
PROFESSIONAL ENGINEER

CERTIFIED BY: [Signature]

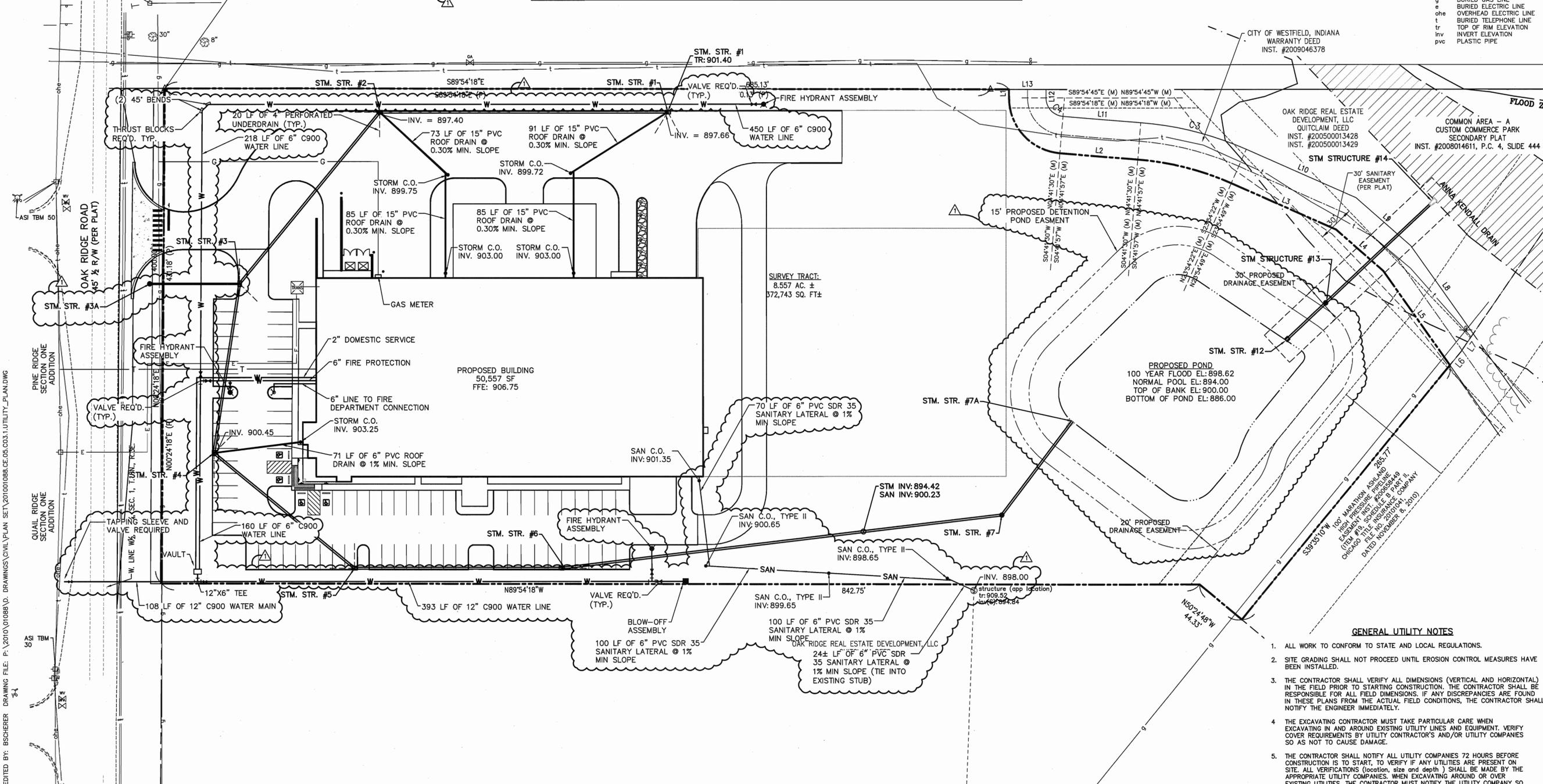
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17397 OAK RIDGE ROAD
WESTFIELD, IN 46074

DATE: 02/24/2011
DRAWN BY: JWH
CHK'D BY: TMJ
JOB NO.: 201001088

REVISIONS	
△ TAC	04/01/11

SHEET NO.
C3.1
OF



UTILITY CONTACTS			
UTILITY	COMPANY	CONTACT	PHONE NO.
GAS	CITIZENS GAS OF WESTFIELD	RICHARD MILLER	317-927-4884
ELECTRIC	DUKE ENERGY	SHIRLEY HUNTER	317-896-6711
TELEPHONE	VERIZON NETWORK SERVICES	STEVE COSTLOW	317-896-6005
WATER	WESTFIELD WATER	BRIAN FORKNER	317-804-3100
SANITARY	WESTFIELD WASTEWATER	BRIAN FORKNER	317-804-3100
CABLE	COMCAST	MATTHEW STRINGER	317-774-3384

NOTES:

- CONTRACTOR SHALL PROTECT AND NOT DESTROY THE PROPERTY CORNER MONUMENTS DURING CONSTRUCTION
- CONTRACTOR TO VERIFY LOCATION, SIZE AND DEPTH OF EXISTING UTILITIES PRIOR TO COMMENCING ANY CONSTRUCTION. CONTACT ENGINEER IF VARIATION EXISTS.

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 -

- GENERAL UTILITY NOTES**
- ALL WORK TO CONFORM TO STATE AND LOCAL REGULATIONS.
 - SITE GRADING SHALL NOT PROCEED UNTIL EROSION CONTROL MEASURES HAVE BEEN INSTALLED.
 - THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS (VERTICAL AND HORIZONTAL) IN THE FIELD PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD DIMENSIONS. IF ANY DISCREPANCIES ARE FOUND IN THESE PLANS FROM THE ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
 - THE EXCAVATING CONTRACTOR MUST TAKE PARTICULAR CARE WHEN EXCAVATING IN AND AROUND EXISTING UTILITY LINES AND EQUIPMENT. VERIFY COVER REQUIREMENTS BY UTILITY CONTRACTOR'S AND/OR UTILITY COMPANIES SO AS NOT TO CAUSE DAMAGE.
 - THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES 72 HOURS BEFORE CONSTRUCTION IS TO START, TO VERIFY IF ANY UTILITIES ARE PRESENT ON SITE. ALL VERIFICATIONS (location, size and depth) SHALL BE MADE BY THE APPROPRIATE UTILITY COMPANIES. WHEN EXCAVATING AROUND OR OVER EXISTING UTILITIES, THE CONTRACTOR MUST NOTIFY THE UTILITY COMPANY SO A REPRESENTATIVE OF THAT UTILITY COMPANY CAN BE PRESENT TO INSTRUCT AND OBSERVE DURING CONSTRUCTION.
 - TRENCHES FOR ALL STORM DRAIN LINES SHALL BE BACKFILLED COMPLETELY WITH GRANULAR MATERIAL IF WITHIN 5 FEET OF PAVEMENT.
 - AFTER STRIPPING TOPSOIL MATERIAL, PROOFROLL WITH A MEDIUM WEIGHT ROLLER TO DETERMINE LOCATIONS OF ANY POCKETS OF UNSUITABLE MATERIAL. THE NECESSITY FOR SUBSIDIES AND/OR REMOVAL OF ANY UNSUITABLE MATERIAL WITHIN THE PROPOSED PARKING AREAS WILL BE DETERMINED AT THE TIME OF CONSTRUCTION.
 - PROVIDE POSITIVE DRAINAGE WITHOUT PONDING, IN ALL AREAS. AFTER INSTALLATION, CONTRACTOR TO TEST FOR, AND CORRECT, IF ANY, STANDING WATER CONDITIONS.
 - ALL PROPOSED SPOT ELEVATIONS ARE THE FINAL PAVEMENT AND FINAL GRADE ELEVATIONS.
 - SEE APPROPRIATE DETAILS TO DETERMINE SUBGRADE ELEVATIONS BELOW FINISH GRADE ELEVATIONS INDICATED.
 - ALL STORM SEWER MATERIALS AND INSTALLATION SHALL CONFORM TO LOCAL STANDARDS.
 - INVERTS AT PIPE OUTLETS ARE GIVEN AT END OF PIPE END SECTION.

APPROVAL PENDING - NOT FOR CONSTRUCTION

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NOTES:

- CONTRACTOR SHALL NOTIFY MARATHON ASHLAND PIPELINE LLC PRIOR TO COMMENCING ANY WORK WITHIN 100' PIPELINE EASEMENT.
- CONTRACTOR SHALL CONTACT MARATHON ASHLAND PIPELINE LLC TO VERIFY DEPTH OF EXISTING 10" PIPELINE AND NOTIFY ENGINEER ABOUT FINDINGS PRIOR TO COMMENCING ANY CONSTRUCTION.
- ALL PIPELINE UTILITY CROSSINGS, AND TEMPORARY TRAFFIC CROSSINGS DURING CONSTRUCTION, SHALL BE COORDINATED WITH MARATHON ASHLAND PIPELINE LLC AND CONSTRUCTED IN ACCORDANCE WITH THEIR GUIDELINE FOR CROSSING A HIGH PRESSURE PIPELINE.
- REFER TO CHAPTERS 400 AND 500 OF THE CITY OF WESTFIELD STORMWATER MANUAL IN THE SPECIFICATIONS.

BENCH INFORMATION (29 DATUM)

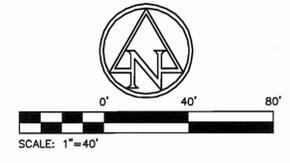
CC-C-76
ELEV = 887.438
A STANDARD INDIANA DEPARTMENT OF NATURAL RESOURCES BRONZE TABLET FOUND SET IN 6" X 6" CONCRETE MONUMENT, 30' N. OF E 161st STREET, 15' W. OF E ABANDONED TRACKS, 18' N.E. OF POWER POLE, 1300'± W. OF U.S. 31.

ACE TRM #101
ELEV = 897.42
CHISELED SQUARE EAST SIDE LIGHT POLE BASE ON WEST PROPERTY LINE OF BUSINESS PARK.

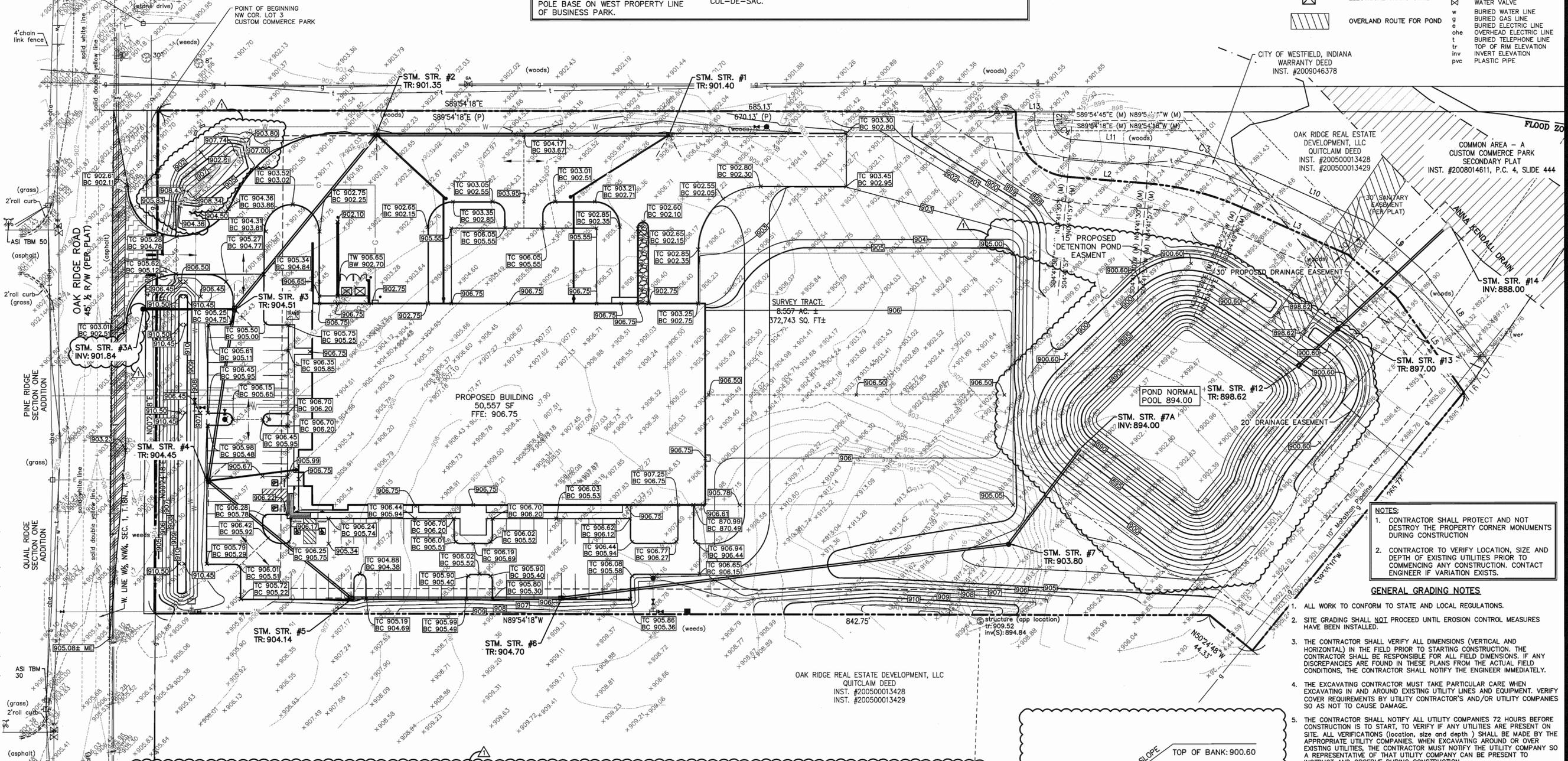
ACE TRM #50
ELEV = 904.19
CHISELED "X" ON E.S.E. BOLT OF FIRE HYDRANT, NORTH SIDE OF PINE RIDGE DRIVE AND WEST SIDE OF OAK RIDGE ROAD.

ASI TRM #30
ELEV = 906.31
A RR SPIKE IN EAST SIDE UTILITY POLE #200-314 AT NW CORNER OF OAK RIDGE ROAD AND QUAIL RIDGE DRIVE.

ACE TRM #53
ELEV = 899.80
CHISELED "X" ON S.S.W. BOLT OF FIRE HYDRANT, NORTH SIDE OF KENDALL COURT AT END OF CUL-DE-SAC.



- PROPOSED GRADING LEGEND**
- M.E. MATCH EXISTING
 - EP EDGE OF PAVEMENT
 - BC BOTTOM OF CURB
 - TC TOP OF CURB
 - CONTOURS
 - FLOW LINE
 - CURB ELEVATIONS
 - SPOT ELEVATIONS
 - ELECTRICAL TRANSFORMER
 - OVERLAND ROUTE FOR POND
- EXISTING LEGEND**
- DRAINAGE MANHOLE
 - GUY WIRE
 - MAILBOX
 - SIGN
 - SANITARY MANHOLE
 - DECIDUOUS TREE
 - POWER POLE
 - GAS MARKER
 - GAS VALVE
 - UTILITY POLE
 - TELEPHONE MARKER
 - TELEPHONE PEDESTAL
 - FIRE HYDRANT
 - WATER VALVE
 - BURIED WATER LINE
 - BURIED GAS LINE
 - BURIED ELECTRIC LINE
 - OVERHEAD ELECTRIC LINE
 - BURIED TELEPHONE LINE
 - TOP OF RIM ELEVATION
 - INVERT ELEVATION
 - PLASTIC PIPE

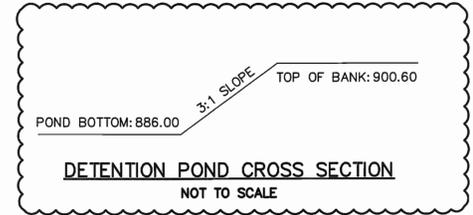


NOTES:

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GENERAL GRADING NOTES

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- SEE APPROPRIATE DETAILS TO DETERMINE SUBGRADE ELEVATIONS BELOW FINISH GRADE ELEVATIONS INDICATED.
- ALL STORM SEWER MATERIALS AND INSTALLATION SHALL CONFORM TO LOCAL STANDARDS.
- INVERTS AT PIPE OUTLETS ARE GIVEN AT END OF PIPE END SECTION.
- DEBRIS GUARD TO BE INSTALLED AT ALL OPEN ENDED INLETS.
- DUE TO SITE CONSTRAINTS, THE SITE MAY OR MAY NOT BALANCE. THE CONTRACTOR IS RESPONSIBLE FOR ALL EARTHWORK IMPORTS AND/OR EXPORTS.
- A PORTION OF THIS LOT LIES WITHIN SPECIAL FLOOD HAZARD ZONE AE AS SCALED FROM THE FLOOD INSURANCE RATE MAP (FIRM) FOR HAMILTON COUNTY, INDIANA, PANEL NUMBER 18057C0120 F, DATED FEBRUARY 19, 2003.



CAUTION !!

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CALL TOLL FREE
- INDIANA UNDERGROUND -

STORM SEWER - STRUCTURE DATA TABLE

STR NO	STRUCTURE TYPE	CASTING TYPE	PIPE SIZE	PIPE TYPE	ELEVATIONS	GRADE (%)	CONNECT TO STRUCT.	REMARKS	
1	TYPE "J" INLET	R-3287-SB10	234	18	RCP 901.40	898.30	897.55	0.32	2
2	TYPE "M" INLET	R-3287-SB10	179	24	RCP 901.35	897.55	896.96	0.33	3
3A	TYPE "A" INLET	R-4342	73	12	RCP 901.93	898.77	898.36	0.56	3
3	TYPE "C" MANHOLE	R-3010	138	24	RCP 904.51	896.96	896.25	0.51	4
4	TYPE "C" MANHOLE	R-3010	147	24	RCP 904.45	896.25	895.44	0.55	5
5	TYPE "J" MANHOLE	R-3010	168	30	RCP 904.14	895.44	895.09	0.21	6
6	TYPE "J" MANHOLE	R-3010	360	30	RCP 904.70	895.09	894.23	0.24	7
7	TYPE "J" MANHOLE	R-1772	95	30	RCP 903.80	894.23	894.00	0.24	7A
7A	CONCRETE END SECTION					894.00			OUT
12	OUTLET CONTROL STRUCTURE	R-1772	43	18	RCP 898.62	894.00	893.40	1.40	13
13	TYPE "C" MANHOLE	R-1772	122	18	RCP 897.00	889.71	888.00	1.40	14
14	CONCRETE END SECTION					888.00			OUT

ALL SPECIFIED CASTINGS ARE NEENAH FOUNDRY, APPROVED EQUALS MAY BE SUBSTITUTED

7260 SHADELAND STATION
INDIANAPOLIS, IN 46256-9957
TEL 317.547.7000
WWW.STRUCTUREPOINT.COM

STRUCTUREPOINT
AMERICAN
REGISTERED PROFESSIONAL ENGINEER

NO. 10708270
STATE OF INDIANA
TIMOTHY M. JENSEN
REGISTERED PROFESSIONAL ENGINEER
CERTIFIED BY [Signature]

GRADING PLAN

AUTOMATIC POOL COVERS
9001 EAST 133RD PLACE
FISHERS, IN 46038

AUTOMATIC POOL COVERS
17397 OAK RIDGE ROAD
WESTFIELD, IN 46074

DATE: 02/24/2011
DRAWN BY: DRAWN BY
CHK'D BY: TMJ
JOB NO. 201001088

REVISIONS

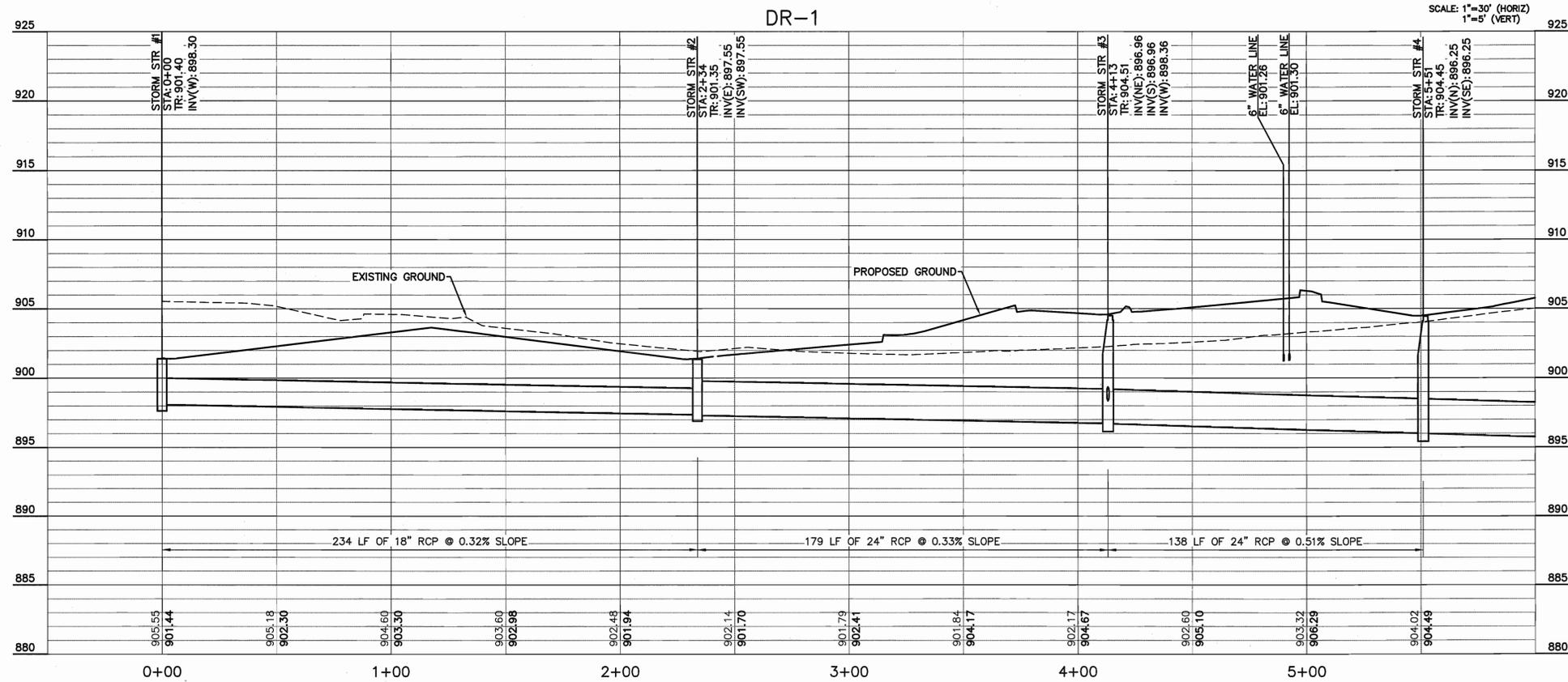
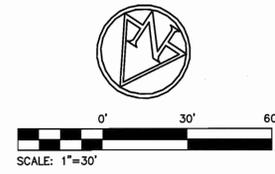
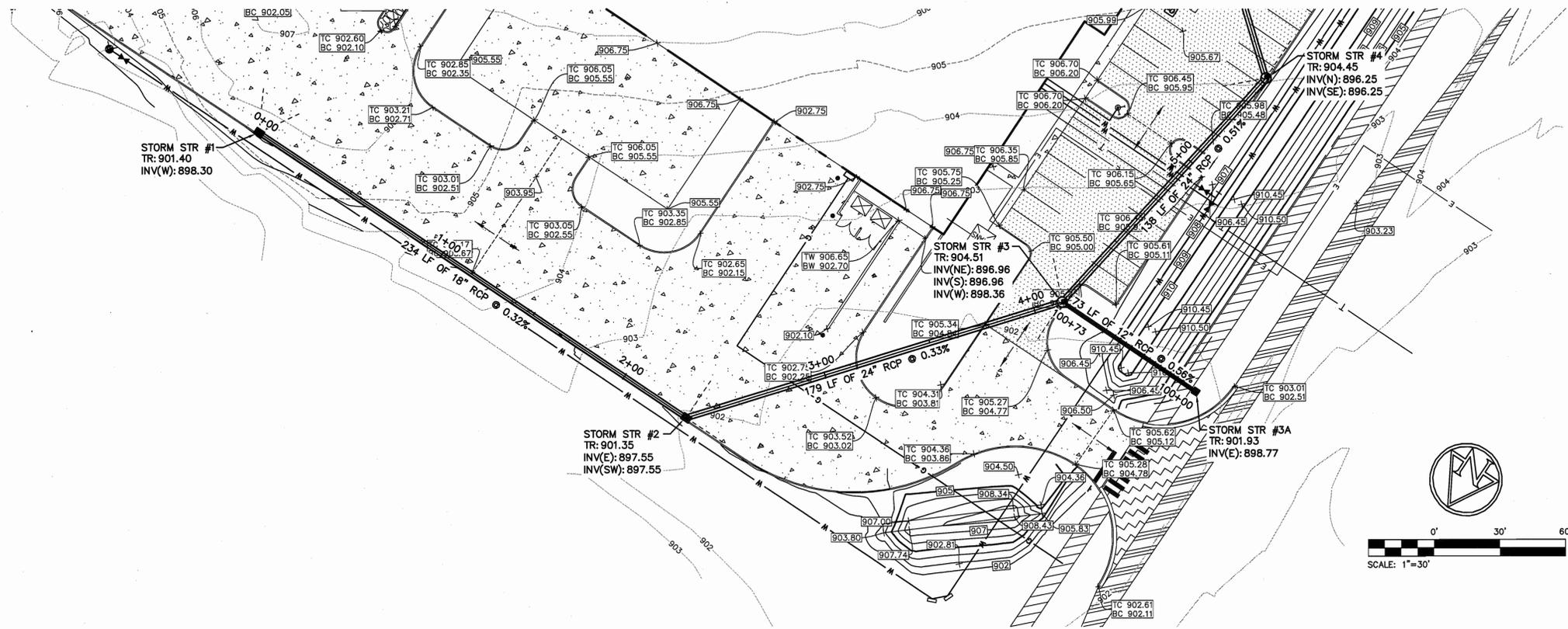
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SHEET NO.
C4.1
OF

APPROVAL PENDING - NOT FOR CONSTRUCTION

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7260 SHADELAND STATION
INDIANAPOLIS, IN 46256-8957
TEL: 317.547.4477
www.structurepoint.com

AMERICAN
STRUCTUREPOINT
INC.

TIMOTHY M. JEANSEN
REGISTERED
No. 10708270
STATE OF INDIANA
PROFESSIONAL ENGINEER

CERTIFIED BY: [Signature]

STORM PLAN & PROFILE

PREPARED FOR:
AUTOMATIC POOL COVERS
9001 EAST 133RD PLACE
FISHERS, IN 46038

PROJECT:
AUTOMATIC POOL COVERS
17397 OAK RIDGE ROAD
WESTFIELD, IN 46074

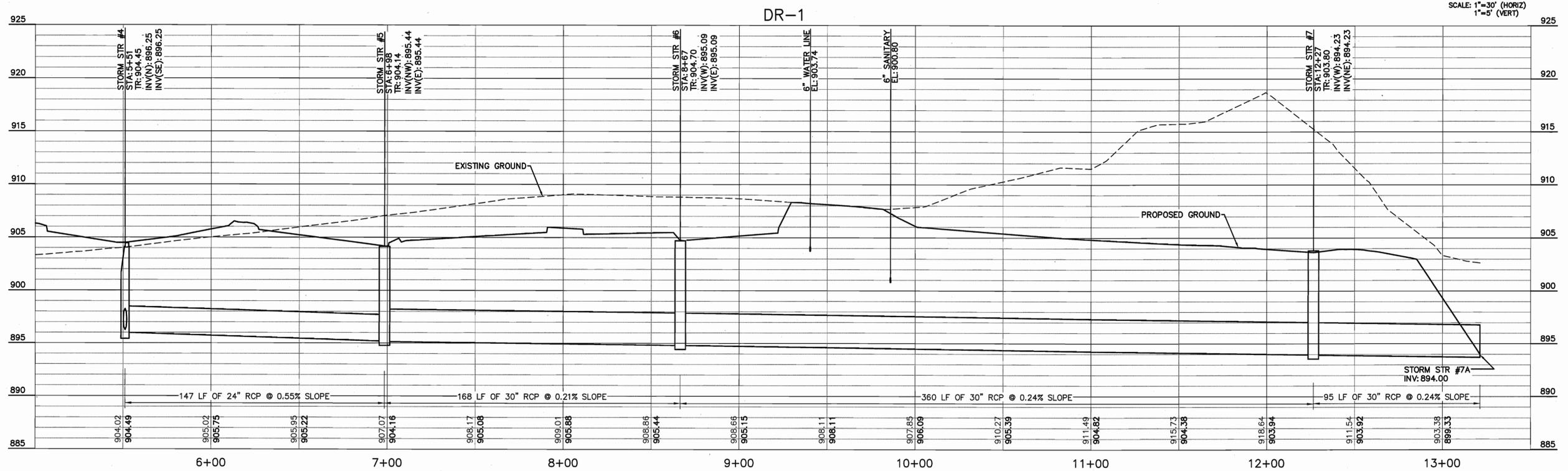
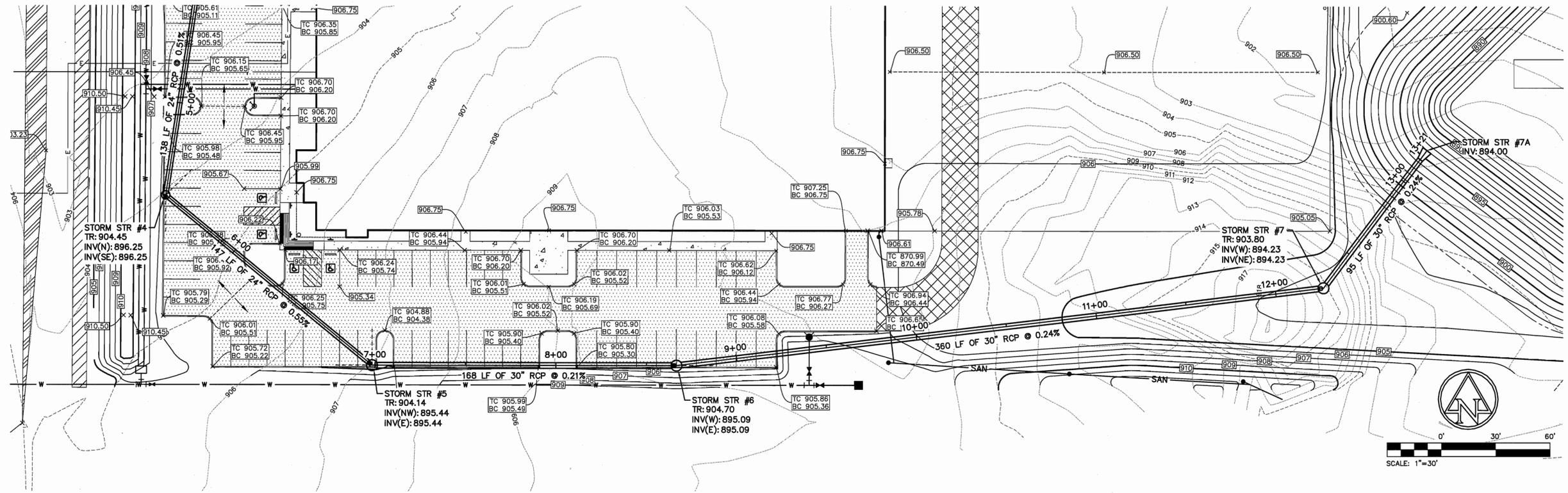
DATE: 02/24/2011
DRAWN BY: JHH
CHK'D BY: TMJ
JOB NO. 201001088

REVISIONS	

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OF

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7280 SHADELAND STATION
INDIANAPOLIS, IN 46256-3987
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TIMOTHY M. JENSEN
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10708270
STATE OF
INDIANA
PROFESSIONAL ENGINEER

CERTIFIED BY: [Signature]

STORM PLAN & PROFILE

PREPARED FOR:
AUTOMATIC POOL COVERS
9001 EAST 133RD PLACE
FISHERS, IN 46038

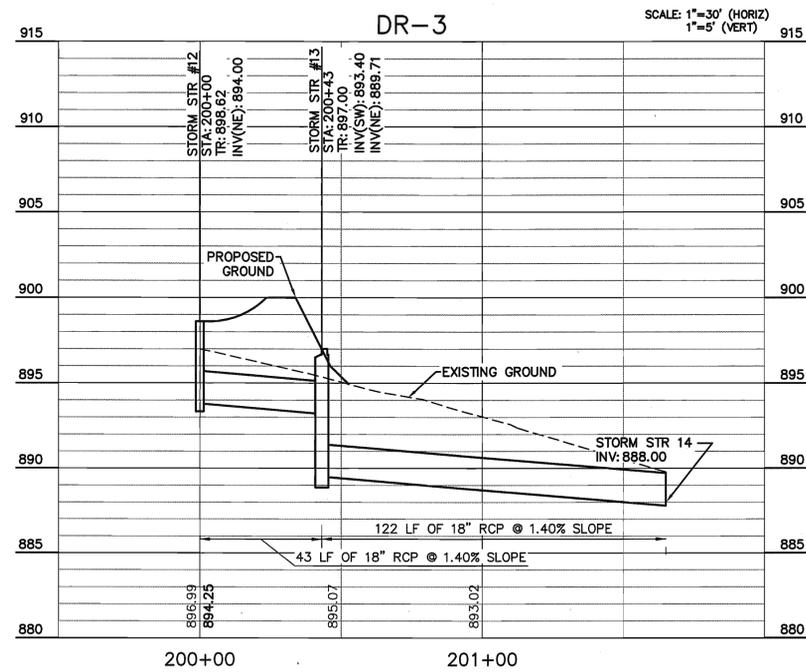
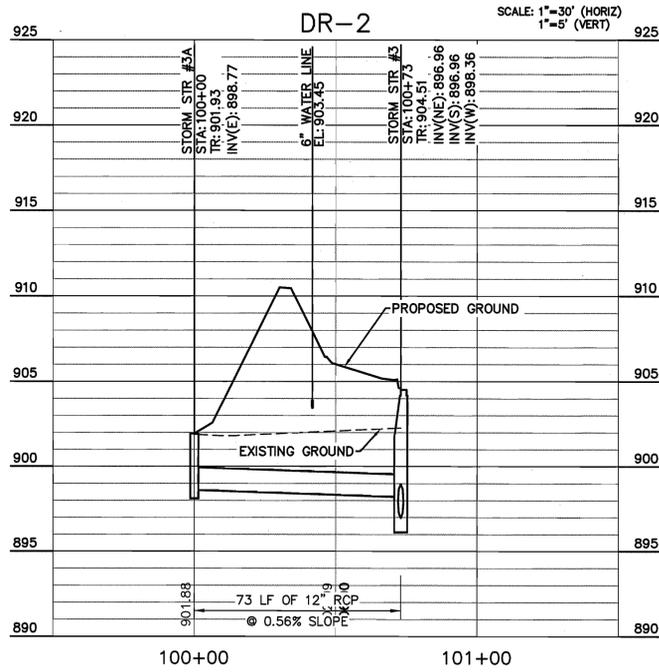
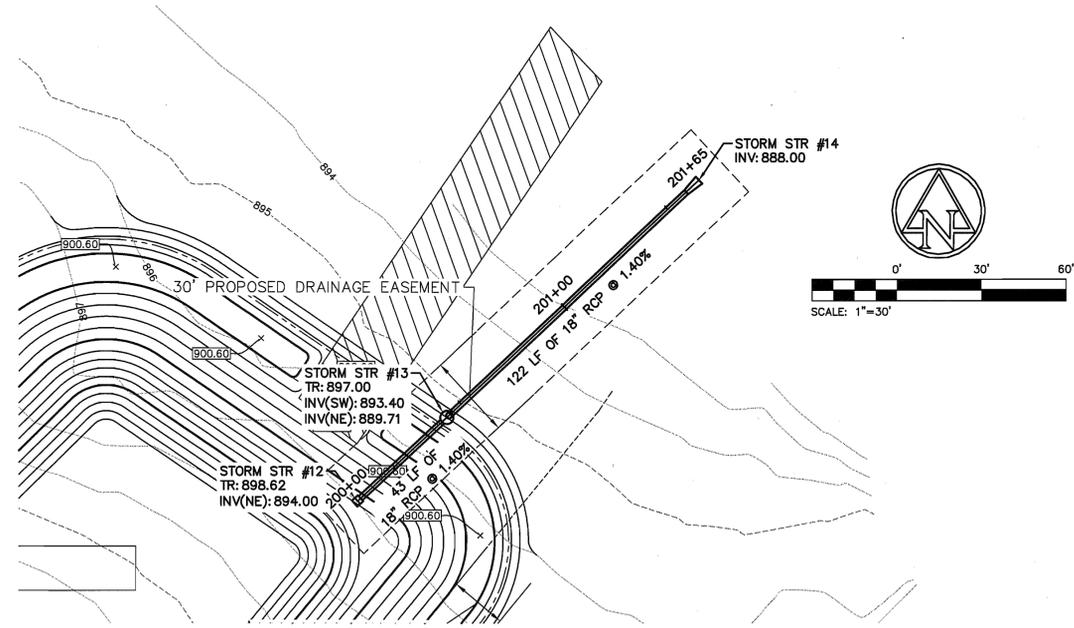
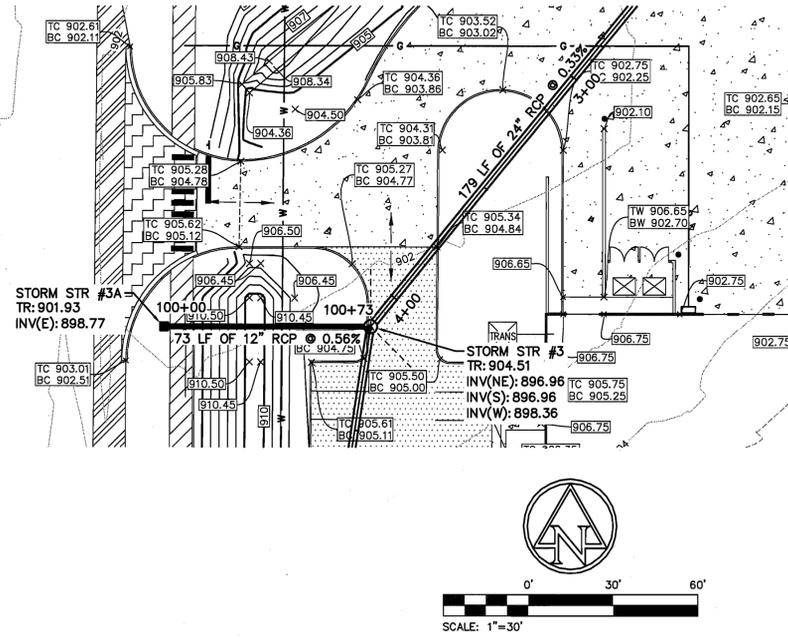
PROJECT:
AUTOMATIC POOL COVERS
17397 OAK RIDGE ROAD
WESTFIELD, IN 46074

DATE: 02/24/2011
DRAWN BY: JHH
CHK'D BY: TMJ
JOB NO. 201001088

REVISIONS

SHEET NO.
C4.3
OF

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7880 SHADELAND STATION
INDIANAPOLIS, IN 46256-3957
TEL 317.577.3500
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No.
10708270
STATE OF
INDIANA
PROFESSIONAL ENGINEER

CERTIFIED BY

STORM PLAN & PROFILE

PREPARED FOR:
AUTOMATIC POOL COVERS
9001 EAST 133RD PLACE
FISHERS, IN 46038

PROJECT:
AUTOMATIC POOL COVERS
17397 OAK RIDGE ROAD
WESTFIELD, IN 46074

DATE: 02/24/2011
DRAWN BY: JHH
CHK'D BY: TMJ
JOB NO: 201001088

REVISIONS

SHEET NO.
C4.4
OF

NOTES:

- CONTRACTOR SHALL NOTIFY MARATHON ASHLAND PIPELINE LLC PRIOR TO COMMENCING ANY WORK WITHIN 100' PIPELINE EASEMENT.
- CONTRACTOR SHALL CONTACT MARATHON ASHLAND PIPELINE LLC TO VERIFY DEPTH OF EXISTING 10" PIPELINE AND NOTIFY ENGINEER ABOUT FINDINGS PRIOR TO COMMENCING ANY CONSTRUCTION.
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- ALL EROSION CONTROL MATERIAL SHALL BE APPROVED BY THE WPWD INSPECTORS PRIOR TO INSTALLATION.

BENCH INFORMATION (29 DATUM)

CC-C-76
ELEV = 887.438
A STANDARD INDIANA DEPARTMENT OF NATURAL RESOURCES BRONZE TABLET FOUND SET IN 6"x 6" CONCRETE MONUMENT, 30' N. OF C 161st STREET, 15' W. OF C ABANDONED TRACKS, 18' N.E. OF POWER POLE, 1300'± W. OF U.S. 31.

ACE TBM #101
ELEV = 897.42
CHISELED SQUARE EAST SIDE LIGHT POLE BASE ON WEST PROPERTY LINE OF BUSINESS PARK.

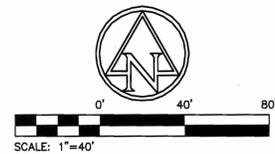
ACE TBM #50
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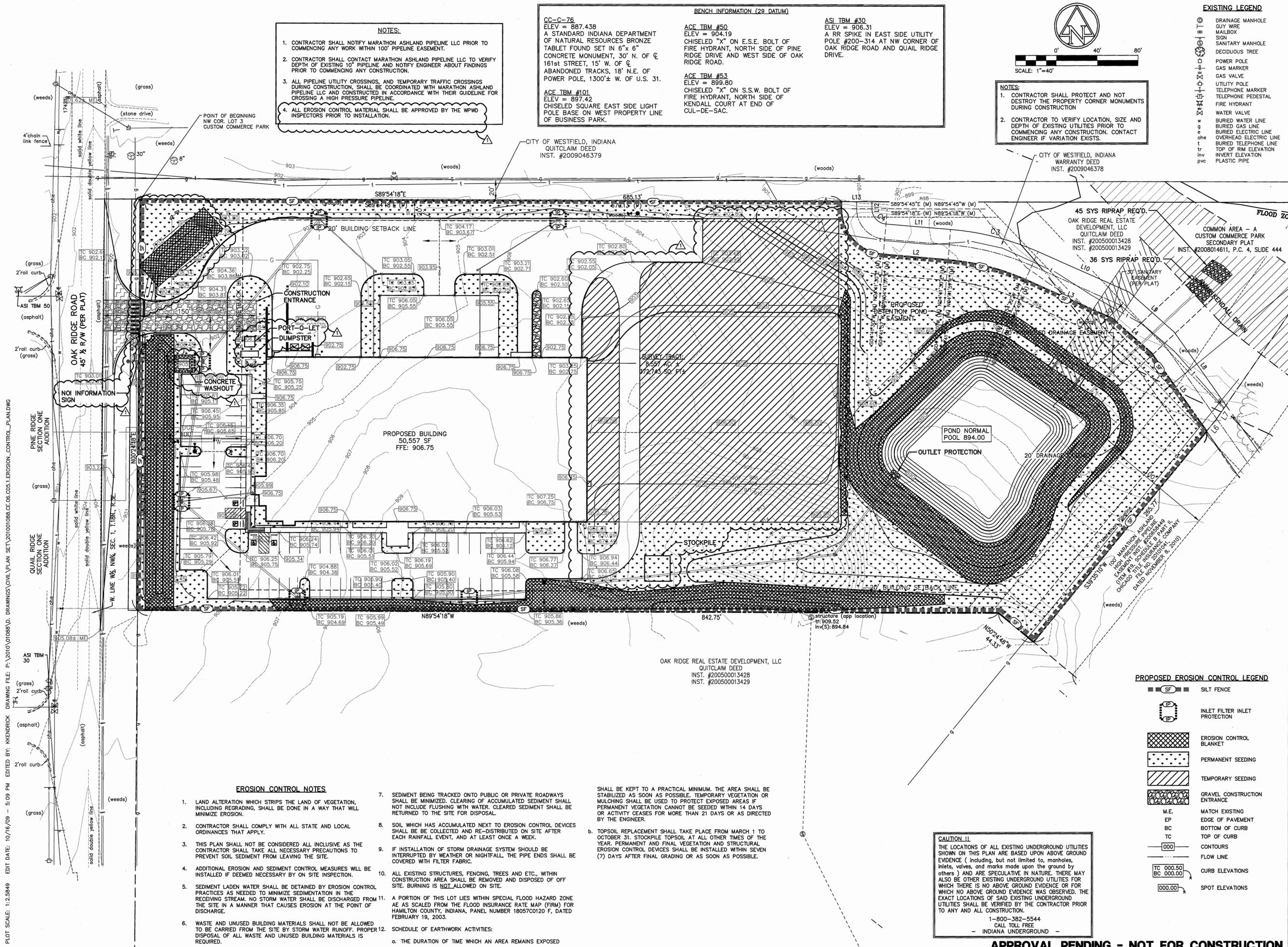
ASI TBM #30
ELEV = 906.31
A RR SPIKE IN EAST SIDE UTILITY POLE #200-314 AT NW CORNER OF OAK RIDGE ROAD AND QUAIL RIDGE DRIVE.

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- EXISTING LEGEND**
- ⊕ DRAINAGE MANHOLE
 - GUY WIRE
 - MAILBOX
 - SIGN
 - SANITARY MANHOLE
 - DECIDUOUS TREE
 - POWER POLE
 - GAS MARKER
 - GAS VALVE
 - UTILITY POLE
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 - TELEPHONE PEDESTAL
 - FIRE HYDRANT
 - WATER VALVE
 - BURIED WATER LINE
 - BURIED GAS LINE
 - BURIED ELECTRIC LINE
 - OVERHEAD ELECTRIC LINE
 - BURIED TELEPHONE LINE
 - TOP OF RIM ELEVATION
 - INVERT ELEVATION
 - PLASTIC PIPE



- EROSION CONTROL NOTES**
- LAND ALTERATION WHICH STRIPS THE LAND OF VEGETATION, INCLUDING REGRADING, SHALL BE DONE IN A WAY THAT WILL MINIMIZE EROSION.
 - CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL ORDINANCES THAT APPLY.
 - THIS PLAN SHALL NOT BE CONSIDERED ALL INCLUSIVE AS THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SOIL SEDIMENT FROM LEAVING THE SITE.
 - ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ON SITE INSPECTION.
 - SEDIMENT LADEN WATER SHALL BE DETAINED BY EROSION CONTROL PRACTICES AS NEEDED TO MINIMIZE SEDIMENTATION IN THE RECEIVING STREAM. NO STORM WATER SHALL BE DISCHARGED FROM THE SITE IN A MANNER THAT CAUSES EROSION AT THE POINT OF DISCHARGE.
 - WASTE AND UNUSED BUILDING MATERIALS SHALL NOT BE ALLOWED TO BE CARRIED FROM THE SITE BY STORM WATER RUNOFF. PROPER DISPOSAL OF ALL WASTE AND UNUSED BUILDING MATERIALS IS REQUIRED.
 - SEDIMENT BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS SHALL BE MINIMIZED. CLEARING OF ACCUMULATED SEDIMENT SHALL NOT INCLUDE FLUSHING WITH WATER. CLEAR SEDIMENT SHALL BE RETURNED TO THE SITE FOR DISPOSAL.
 - SOIL WHICH HAS ACCUMULATED NEXT TO EROSION CONTROL DEVICES SHALL BE COLLECTED AND RE-DISTRIBUTED ON SITE AFTER EACH RAINFALL EVENT, AND AT LEAST ONCE A WEEK.
 - IF INSTALLATION OF STORM DRAINAGE SYSTEM SHOULD BE INTERRUPTED BY WEATHER OR NIGHTFALL, THE PIPE ENDS SHALL BE COVERED WITH FILTER FABRIC.
 - ALL EXISTING STRUCTURES, FENCING, TREES AND ETC., WITHIN CONSTRUCTION AREA SHALL BE REMOVED AND DISPOSED OF OFF SITE. BURNING IS NOT ALLOWED ON SITE.
 - A PORTION OF THIS LOT LIES WITHIN SPECIAL FLOOD HAZARD ZONE AE AS SCALED FROM THE FLOOD INSURANCE RATE MAP (FIRM) FOR HAMILTON COUNTY, INDIANA, PANEL NUMBER 18057C0120 F, DATED FEBRUARY 19, 2003.
 - SCHEDULE OF EARTHWORK ACTIVITIES:
 - THE DURATION OF TIME WHICH AN AREA REMAINS EXPOSED

SHALL BE KEPT TO A PRACTICAL MINIMUM. THE AREA SHALL BE STABILIZED AS SOON AS POSSIBLE. TEMPORARY VEGETATION OR MULCHING SHALL BE USED TO PROTECT EXPOSED AREAS IF PERMANENT VEGETATION CANNOT BE SEEDED WITHIN 14 DAYS OR ACTIVITY CEASES FOR MORE THAN 21 DAYS OR AS DIRECTED BY THE ENGINEER.

b. TOPSOIL REPLACEMENT SHALL TAKE PLACE FROM MARCH 1 TO OCTOBER 31. STOCKPILE TOPSOIL AT ALL OTHER TIMES OF THE YEAR. PERMANENT AND FINAL VEGETATION AND STRUCTURAL EROSION CONTROL DEVICES SHALL BE INSTALLED WITHIN SEVEN (7) DAYS AFTER FINAL GRADING OR AS SOON AS POSSIBLE.

CAUTION !!

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

- PROPOSED EROSION CONTROL LEGEND**
- SF — SILT FENCE
 - IP — INLET FILTER INLET PROTECTION
 - EROSION CONTROL BLANKET
 - PERMANENT SEEDING
 - TEMPORARY SEEDING
 - GRAVEL CONSTRUCTION ENTRANCE
 - M.E. MATCH EXISTING
 - EP EDGE OF PAVEMENT
 - BC BOTTOM OF CURB
 - TC TOP OF CURB
 - 000 — CONTOURS
 - — FLOW LINE
 - TC 000.50 CURB ELEVATIONS
 - BC 000.00
 - 000.00 — SPOT ELEVATIONS

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DATE: 02/24/2011
DRAWN BY: TAC
CHK'D BY: TMJ
JOB NO. 201001088

REVISIONS

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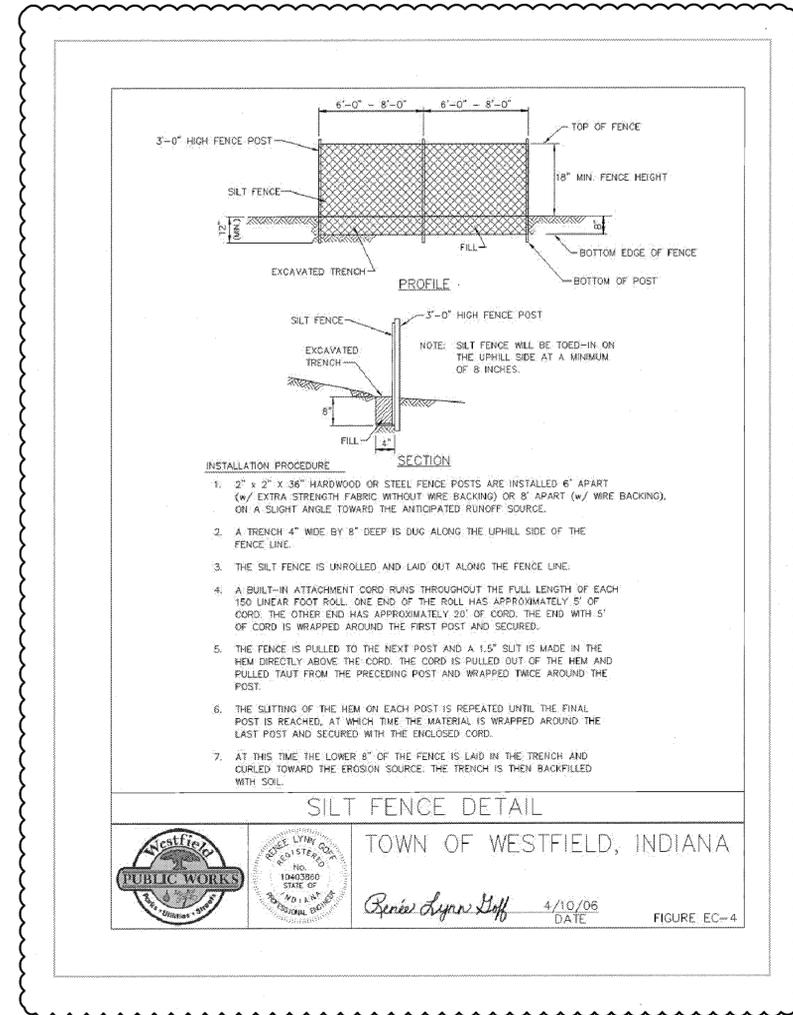
PROJECT: EROSION CONTROL PLAN
PREPARED FOR: AUTOMATIC POOL COVERS
17397 OAK RIDGE ROAD WESTFIELD, IN 46074
9001 EAST 133RD PLACE FISHERS, IN 46038

SHEET NO. C5.1 OF

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APPROVAL PENDING - NOT FOR CONSTRUCTION

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TIMOTHY M. JENSEN
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No. 10708270
STATE OF INDIANA
PROFESSIONAL ENGINEER
CERTIFIED BY

EROSION CONTROL DETAILS

PREPARED FOR:
AUTOMATIC POOL COVERS
9001 EAST 133RD PLACE
FISHERS, IN 46038

PROJECT:
AUTOMATIC POOL COVERS
17397 OAK RIDGE ROAD
WESTFIELD, IN 46074

DATE: 02/24/2011
DRAWN BY: JHJ
CHK'D BY: TMJ
JOB NO. 201001088

REVISIONS	
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SHEET NO.
C5.3
OF

APPROVAL PENDING - NOT FOR CONSTRUCTION

201001088.CE.07.C05.2-C05.3.EROSION_CONTROL_DETAILS.DWG

SITE NAME:

The area scheduled for construction is known as "Automatic Pool Covers" (hereinafter referred to as the "Project").

PROJECT LOCATION:

The property is located at northeast corner of Oak Ridge Road and Foundation Parkway in (Westfield, Indiana), at a latitude of 40°02'15.87" N and a longitude of 86°08'39.61" W.

OWNER'S INFORMATION:

Name: Automatic Pool Covers, Inc.
Address: 9001 East 133rd Place, Fishers, IN 46038
Representative: Michael Shebek
Title: President
Telephone: (317) 579-2000
Facsimile: (317) 579-2006

OPERATOR'S INFORMATION:

Name: Automatic Pool Covers, Inc.
Address: 9001 East 133rd Place, Fishers, IN 46038
Representative: Michael Shebek
Title: President
Telephone: (317) 579-2000
Facsimile: (317) 579-2006

NOTICE OF INTENT:

All parties defined as owners or operators must submit a Notice of Intent (NOI) at least 48 hours prior to commencement of on-site construction activities. Submittal of late NOI's is not prohibited; however, authorization under the construction general permit is only for discharges that occur after permit coverage is granted.

a. The party has operational control over construction plans and specifications, including the ability to make modifications to those plans and specifications.

b. The party has day-to-day operational control of those activities at a project that are necessary to ensure compliance with a storm water pollution prevention plan for the site or other permit conditions.

A2 11" x 17" PLAT:

Refer to Site Plan

A3 PROJECT NARRATIVE:

This project consists of the construction of the development of approximately 8.55 acres in (Westfield, Indiana). The development includes the construction of an industrial building and a parking lot including infrastructure, not limited to the following activities: removal and stockpiling of topsoil and installation of sanitary sewers and laterals, water laterals, storm sewers, and other utilities. The site shall be paved and landscaped.

The drainage plans for the site include a storm sewer designed for conveyance of 10-year flood discharges to the proposed detention pond along the eastern property line.

A4 VICINITY MAP:

Refer to Title Sheet

A5 LEGAL DESCRIPTION OF PROJECT SITE:

8.557 Acre Tract
Port of Lot 3 and Common Area "A"
Custom Commerce Park

Parts of Lot 3 and Common Area "A" in the Custom Commerce Park Secondary Plat described as Instrument Number 2009014811 and recorded in the office of the Recorder of Hamilton County located in the Northwest Quarter of Section 1, Township 18 North, Range 3 East of the Second Principal Meridian, Hamilton County, Indiana described as follows:

Beginning at the Northwest Corner of said Lot 3; thence South 89 degrees 54 minutes 18 seconds East 685.13 feet along the North Line of Lot 3 and Common Area "A" to the West Line of the 0.30-acre tract of land described within Instrument Number 2009046378 of said recorder's office, the following seven (7) curves are along said West Line; 1) thence South 00 degrees 05 minutes 15 seconds West 6.76 feet to a curve to the left having a radius of 45.00 feet, the radius point which bears South 89 degrees 54 minutes 45 seconds East; 2) thence Southeastery along said curve an arc distance of 67.07 feet to a point which bears South 04 degrees 41 minutes 30 seconds East from said radius point; 3) thence South 85 degrees 18 minutes 30 seconds East 63.59 feet to a tangent curve to the right having a radius of 235.00 feet, the radius point which bears South 04 degrees 41 minutes 30 seconds West; 4) thence Southeastery along said curve an arc distance of 78.81 feet to a point which bears North 23 degrees 54 minutes 22 seconds East from said radius point; 5) thence South 66 degrees 05 minutes 38 seconds East 93.15 feet; 6) thence South 48 degrees 51 minutes 07 seconds East 50.95 feet; 7) thence North 35 degrees 23 minutes 12 seconds East 93.40 feet to the Southeast Line of said Common Area "A"; thence South 39 degrees 35 minutes 10 seconds West 255.77 feet along said Southeast Line to the East Line of said Lot 3; thence North 50 degrees 24 minutes 48 seconds West 44.33 feet along said East Line; thence North 89 degrees 54 minutes 18 seconds East 842.75 feet to the West Line of said Lot 3; thence North 00 degrees 24 minutes 18 seconds East 400.00 feet along said West Line to the Point of Beginning, containing 8.557 acres, more or less.

A6 LOCATION OF ALL LOTS AND PROPOSED SITE IMPROVEMENTS:

The site will not be subdivided; therefore, there are no individual lots on the property. The Site Plan shows the proposed site improvements.

A7 HYDROLOGIC UNIT CODE (HUC):

05120201090030

A8 STATE AND FEDERAL WATER QUALITY PERMITS:

None are required for this project.

A9 SPECIFIC POINT WHERE STORMWATER DISCHARGE WILL LEAVE THE SITE:

Stormwater drainage from the site will be conveyed by a proposed storm sewer to a proposed detention pond located along the eastern side of the site. The ultimate receiving waters for the detention pond is Anna Kendall Legal Drain.

A10 LOCATION AND NAME OF ALL WETLANDS, LAKES, AND WATERCOURSES ON AND ADJACENT TO THE SITE:

Anna Kendall Legal Drain is directly east of the project site.

A11 IDENTIFICATION OF ALL RECEIVING WATERS:

The ultimate receiving water is Anna Kendall Legal Drain.

A12 IDENTIFICATION OF ALL POTENTIAL DISCHARGES TO GROUND WATER:

There are no locations on site where surface water may be discharged into ground water.

A13 100-YEAR FLOODPLAINS, FLOODWAYS, AND FLOODWAY FRINGES:

A portion of this site does lie within special flood hazard AE. The information was obtained from Flood Insurance Rate Map Panel 18057C0120 D dated February 19, 2003 for Hamilton County, Indiana.

A14 PRE-CONSTRUCTION AND POST-CONSTRUCTION ESTIMATE OF PEAK DISCHARGE:

Pre-construction 10-year discharge: 13.18 cfs
Post-construction 10-year discharge: 2.71 cfs

A15 ADJACENT LAND USE:

North: Residential
East: Industrial
South: Industrial
West: Residential

A16 LOCATIONS AND APPROXIMATE BOUNDARIES OF ALL DISTURBED AREAS:

Refer to the Erosion Control Plan for the construction limits.

A17 IDENTIFICATION OF EXISTING VEGETATIVE COVER:

At this time, woodland and grass cover exists.

A18 SOILS MAP INCLUDING SOIL DESCRIPTION AND LIMITATIONS:

Soil information from the county Soil Survey is on the Erosion Control Plan. This site has Brookston silt clay loam, Crosby silt loam, Miami silt loam, and Shoals silt loam soils.

The suitability of the soils for dwellings without basements is listed as a range from somewhat limited to very limited. The on-site soil will be treated as recommended by the geotechnical engineer if the conditions are unsuitable for the pavement system. Remedial treatments may include, but are not limited to, removal of unsuitable soil and backfilling with engineered material, installation of a geofabric within or under the pavement system, or treatment of the subgrade with lime.

The suitability of the soils for pavement (local roads and streets) is listed as very limited. The on-site soil will be treated as recommended by the geotechnical engineer if the conditions are unsuitable for the pavement system. Remedial treatments may include, but are not limited to, removal of unsuitable soil and backfilling with engineered material, installation of a geofabric within or under the pavement system, or treatment of the subgrade with lime.

Other suitability or limitations of the soil for the other classifications of use listed in the table are not applicable to this project.

A19 LOCATIONS, SIZE, AND DIMENSIONS FOR PROPOSED STORMWATER SYSTEMS:

Locations of stormwater systems: See Grading Plan
Size of storm sewer: See Grading Plan
Details of storm inlets and manholes: See Site Details

A20 PLANS FOR ANY OFF-SITE CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT:

Off site construction activities shall consist of connections to existing utility services.

A21 LOCATIONS OF PROPOSED SOIL STOCKPILES AND/OR BORROW/DISPOSAL:

Excess soil shall be immediately stockpiled and seeded and/or removed from the construction site in accordance with all applicable laws.

A22 EXISTING SITE TOPOGRAPHY:

Refer to the Existing Topography Plan Sheet.

A23 PROPOSED FINAL SITE TOPOGRAPHY:

Refer to the Grading Plan.

B1 DESCRIPTION OF POTENTIAL POLLUTANT SOURCES ASSOCIATED WITH CONSTRUCTION ACTIVITIES:

The following potential pollutant sources may be associated with construction activities on site:

- 1. Material storage areas (more specifically described below).
2. Construction waste material.
3. Fuel storage areas and fueling stations.
4. Exposed soils.
5. Leaking vehicles and equipment.
6. Sanitary waste from temporary toilet facilities.
7. Litter.
8. Windblown dust.
9. Soil tracking off site from construction equipment.

The following construction materials will be stored or stored on site at various points during development of the site:

- 1. Structural fill.
2. Road Base.
3. Plastic drainage pipe.
4. Water main pipe and appurtenances.
5. Concrete drainage pipe.
6. Concrete culverts.
7. Precast concrete manholes.
8. Rock rip-rap.

B2 SEQUENCE DESCRIBING STORMWATER QUALITY MEASURE IMPLEMENTATION RELATIVE TO LAND-DISTURBING ACTIVITIES:

- 1. Install construction entrance.
2. Utilize the gravel construction entrance for installation of the perimeter silt fence. Add stone if needed. Post the NOI at the entrance. Add protection measures to existing inlets.
3. Install staging area, fueling station, material storage area and concrete truck washout.
4. Strip the top soil and grade.
5. Complete the cut and fills on the site. Final grade and seed the pond slopes. Install check dams or stabilize the slopes with erosion control blankets.
6. Prior to building construction install stone surface for paved areas.
7. Building pads left dormant for more than 15 days, must be temporarily seeded.
8. Start building construction. Install staging area and building materials.
9. Install storm sewer and other utilities. Provide inlet protection immediately upon completion of the inlet and install riprap outlet protection prior to installing outlets. Final grade and stabilize slopes when inlets are functioning.
10. Seed the perimeter of the site.
11. Complete utility installation, curbs, paving and building construction.
12. Install landscaping plant material and stabilize all disturbed areas.
13. Remove all erosion and sediment control practices when areas have a uniform grass cover.

B3 STABLE CONSTRUCTION ENTRANCE LOCATIONS AND SPECIFICATIONS:

Refer to the Erosion Control Plan for location and Erosion Control Details for details.

B4 SEDIMENT CONTROL MEASURES FOR SHEET FLOW AREAS:

Sheet flow areas will be protected by seed and mulch or hydroseeding. Erosion control blankets will be installed on sloped areas where the slope exceeds 6:1 (horizontal to vertical). Silt Fence will be installed to prevent sedimentation from leaving the site. Because lengths and heights of the slopes are small, more aggressive erosion control measures were not considered.

Refer to Sheet Erosion Control Details for details.

B5 SEDIMENT CONTROL MEASURES FOR CONCENTRATED FLOW AREAS:

There are no proposed concentrated flow areas on-site.

Strow bales and silt fences will not be allowed as concentrated flow protection measures.

B6 STORM SEWER INLET PROTECTION MEASURE LOCATIONS AND SPECIFICATIONS:

The contractor shall install Inlet protection in each inlet in paved areas and straw bales around inlets in grass areas during construction. Refer to the Erosion Control Plan for locations and refer to Erosion Control Details for details.

Strow bales alone will not be allowed as inlet protection measures.

B7 RUNOFF CONTROL MEASURES:

Not applicable.

B8 STORMWATER OUTLET PROTECTION SPECIFICATIONS:

Stormwater outlets will be protected by riprap aprons. Refer to the Erosion Control Plan for locations and the Erosion Control Details for details.

B9 GRADE STABILIZATION STRUCTURE LOCATIONS AND SPECIFICATIONS:

Rip rap aprons at outlets will be utilized to prevent grade destabilization. Refer to Erosion Control Plan for locations and Erosion Control Details for details.

B10 LOCATION, DIMENSIONS, SPECIFICATIONS, AND CONSTRUCTION DETAILS OF EACH STORMWATER QUALITY MEASURE:

The detention ponds will provide a sediment removal function in addition to the primary function of controlling peak discharges from the site. Temporary or permanent surface stabilization required for thin or bare area that is inactive for 15 days or more.

B11 TEMPORARY SURFACE STABILIZATION METHODS APPROPRIATE FOR EACH SEASON:

Refer to the Erosion Control Details, within the Seasonal Soil Protection Chart.

B12 PERMANENT SURFACE STABILIZATION SPECIFICATIONS:

- A. Loosen lawn area to a minimum depth of 6 inches. Mix soil amendments and fertilizers with topsoil at rates specified. Organic soil amendments such as peat, compost or manure shall be applied at 2" depth evenly over soil and incorporated into the top 6" of topsoil. Provide fertilizer with percentage of nitrogen required to provide not less than 1 pound of actual nitrogen per 1,000 sq. ft. of lawn area and not less than 4 percent phosphoric acid and 2 percent potassium. At least 50 percent of nitrogen to be organic form. Delay mixing of phosphorus and potassium made up of a composting of 5 percent.
B. Fertilizer for lawns: provide a fast release fertilizer with a composition of 1 lb per 1,000 sq. ft. of actual nitrogen, 4 percent phosphorous, and 2 percent potassium by weight.
C. Slow-release fertilizer for trees and shrubs: granular fertilizer consisting of 50 percent water-insoluble nitrogen, phosphorus and potassium made up of a composting of 5 percent.
D. Grade lawn and grass areas to a smooth, even surface with loose, uniformly fine texture. Limit fine grading to areas that can be planted within immediate future. Remove trash, debris, stones larger than 1 inch diameter, and other objects that may interfere with planting or maintenance operations.
E. Sow seed using a spreader or seeding machine. Do not seed when wind velocity exceeds 5 miles per hour. Distribute seed evenly over entire area by sowing equal quantity in 2 directions at right angles to each other.
F. Rake seed lightly into top 1/8 inch of soil, roll lightly, and water with a fine spray.
G. Install erosion control blankets as indicated on the plan.
H. Protect seeded areas against erosion by spreading clean, seed-free straw mulch after completion of seeding operations. Spread uniformly to form a continuous blanket not less than 1-1/2 inches loose measurements over seeded areas.
I. Water newly planted lawn areas and keep moist until new grass is established. Immediately repair any lawn areas disturbed by construction activities incidental to the construction activity, must be collected in containers or closed dumpster's. The collection containers must be emptied periodically and the collected material hauled to a landfill permitted by the State and/or appropriate local municipality to accept the waste for disposal.
J. Refer to the Erosion Control Details, within the Seasonal Soil Protection Chart for timing of temporary and permanent seeding and grass seed specifications.

B13 MATERIAL HANDLING AND SPILL PREVENTION PLAN:

Solid Waste Disposal: No solid material, including building materials, is permitted to be discharged to surface waters or buried on site. All waste materials, including materials incidental to the construction activity, must be collected in containers or closed dumpster's. The collection containers must be emptied periodically and the collected material hauled to a landfill permitted by the State and/or appropriate local municipality to accept the waste for disposal. A foreman or supervisor should be designated in writing to oversee, enforce, and instruct construction workers on proper solid waste procedures.

Hazardous Waste:

Whenever possible, minimize the use of hazardous materials and generation of hazardous wastes. All hazardous waste materials will be disposed in the manner specified by federal, state, or local regulations or by the manufacturer.

Use containment berms in fueling and maintenance areas and where potential for spills is high.

A foreman or supervisor should be designated in writing to oversee, enforce and instruct construction workers on proper hazardous waste procedures. The location of any hazardous waste storage areas should be indicated on the stormwater pollution prevention plan by the operator following on-site location of the facility.

Dust Control/Off-Site Vehicle Tracking:

During construction, water trucks should be used, as needed, by each contractor or subcontractor to reduce dust. After construction, the site should be stabilized to reduce dust.

Construction traffic should enter and exit the site at a Construction Entrance with a rock pad or equivalent device. The purpose of the rock pad is to minimize the amount of soil and mud that is tracked onto existing streets. If sediment escapes the construction site, off-site accumulations of sediment must be removed at a frequency sufficient to minimize offsite impacts.

Sanitary/Septic:

Contractors and subcontractors must comply with all state and local sanitary sewer, portable toilet, or septic system regulations. Sanitary facilities shall be provided at the site by each contractor or subcontractor throughout construction activities. The sanitary facilities should be utilized by all construction personnel and be serviced regularly. All expenses associated with providing sanitary facilities are the responsibility of the contractors and subcontractors. The location of any sanitary facilities should be indicated on the stormwater pollution prevention plan by the operator following on-site location of said facilities.

Water Source:

Water used to establish and maintain grass, to control dust, and for other construction purposes must originate from a public water supply or private well approved by the State or local health department.

Equipment Fueling and Storage Areas:

Equipment fueling, maintenance, and cleaning should only be completed in protected areas (i.e., bermed area). Leaking equipment and maintenance fluids will be collected and not allowed to discharge onto soil where they may be washed away during a rain event.

Equipment wash down (except for wheel washes) should take place within an area surrounded by a berm. The use of detergents is prohibited.

Hazardous Material Storage:

Chemicals, paints, solvents, fertilizers, and other toxic or hazardous materials should be stored in their original containers (if original container is not resealable, store the products in clearly labeled, waterproof containers). Except during application, the containers should be kept in trucks or in bermed areas within covered storage facilities. Runoff containing such materials shall be collected, removed from the site, and disposed of in accordance with the federal, state, and local regulations.

As may be required by federal, state or local regulations, the Contractor should have a Hazardous Materials Management Plan and/or Hazardous Materials Spill and Prevention Program in place. A foreman or supervisor should be designated in writing to oversee, enforce, and instruct construction workers on proper hazardous materials storage and handling procedures. The location of any hazardous material storage areas should be indicated on the stormwater pollution prevention plan by the operator following on-site location of the storage areas.

Material Handling and Spill Prevention:

Discharge of hazardous substances or oil into stormwater is subject to reporting requirements. In the event of a spill of a hazardous substance, the operator is required to notify the National Response Center (1-800-424-8802) to properly report the spill. In addition, the operator shall submit a written description of the release (including the type and amount of material released, the date of the release, the circumstances of the release, and the steps to be taken to prevent future spills) to the local Soil and Water Conservation District. The SWPPP must be revised within 14 calendar days after the release to reflect the release, stating the information above along with modifications to minimize the possibility of future occurrences. Each contractor and subcontractor is responsible for complying with these reporting requirements.

Concrete Washout:

All concrete trucks waste material shall be completely contained and disposed in accordance with all local, state, and federal regulations. A pit or container is required when cleaning concrete chutes.

Spill Response Plan:

- Minor - Small spills that typically involve oil gasoline, paint, hydraulic fluid etc. Minor spills can be controlled by the first responder at the discovery of the spill.
- Contain spill to prevent material from entering storm or ground water. Do not flush with water or bury.
- Use absorbent material to clean-up spill material and any subsequently contaminated soil and dispose of properly.
Semi-significant Spills - Approximately ten gallons or less of pollutant with no contamination of ground or surface waters. Minor spills can be generally controlled by the first responder with help from other site personnel. This response may require other operations to stop to make sure the spill is quickly and safely addressed. At the discovery of the spill:
- Contain spill to prevent material from entering storm or ground water. Do not flush with water or bury.
- Use absorbent material to clean-up spills and dispose of properly. Spills on impervious surfaces should be contained with a dry absorbent. Spills on clayey soils should be contained by constructing an earthen dike and should be disposed of in a way that will not prevent migration deeper into the soil and groundwater. Dispose of contaminated soils or absorbents properly.
- Contact 911 if this spill could be a safety issue.
- Contact supervisors and designated inspectors immediately
- Contaminated solids to be removed to an approved landfill.

Major or Hazardous Spills - More than ten gallons, there is the potential for death, injury or illness to humans or animals or has the potential for surface or groundwater pollution.

- Control or contain the spill without risk of further harm. Temporarily plug storm drains if possible to prevent migration of the spill into the stormwater system.
- Immediately contact the local Fire Department at 911 to report any hazard material spill.
- Contact supervisors and designated inspectors immediately. Other county or municipal officials (City of Westfield Engineering Department) responsible for storm water facilities should be contacted as well. The contractor is responsible for having these contact numbers available at the job site. A written report should be submitted to the owner as soon as possible.
- As soon as possible but within 2 hours of discovery, contact the Department of Environmental Management, Office of Emergency Response 1-888-233-7745. The following information should be noted for future reports to IDEM or the National Response Center.
o Name, address and phone number of person making the spill report
o The location of the spill
o The time of the spill
o Identification of the spilled substance
o Approximate quantity of the substance that has been spilled or may be further spilled
o The duration and source of the spill
o Name and location of the damaged waters
o Name of spill response organization
o What measures were taken in the spill response
o Other information that may be significant

Additional regulation or requirements may be present. A spill response professional should be consulted to make sure all appropriate and required steps have been taken. Contaminated solids should only be removed from the site after approval is given by Emergency Response.

B14 MONITORING AND MAINTENANCE GUIDELINES FOR EACH PROPOSED STORMWATER QUALITY MEASURE:

Inspection Schedule/Reporting:

All impacted areas, as well as all erosion and sediment control devices, will be inspected every seven (7) calendar days and within 24 hours after a rainfall of 0.5 inch or greater. Where sites have been fine or temporarily stabilized or on sites where runoff is unlikely due to winter conditions (e.g., site is covered with snow, ice, or frozen ground exists), such inspections shall be conducted at least once every month.

Inspections shall be conducted and a written report prepared, by a designated and qualified person familiar with the USEPA NPDES Storm Water General Permit, this SWPPP, and the Project.

Inspection reports shall be completed including scope of the inspection, name(s) and qualifications of personnel making the inspection, the date of the inspection, observations relating to the implementation of the SWPPP, and any actions taken as a result of incidents of noncompliance noted during the inspection. The inspection report should state whether the site was in compliance or identify any incidents of noncompliance. The contractor shall keep a copy of the inspection reports on site and permanently for a period of two years following construction. The on-site reports may be requested by inspections conducted by the local Soil and Water Conservation District.

Construction Entrance:

Locations where vehicles exit the site shall be inspected for evidence of off-site sediment tracking. Each contractor and subcontractor shall be responsible for maintaining the Construction Entrance and other controls as described in this SWPPP.

Material Storage Inspections:

Inspectors must evaluate areas used for storage of materials that are exposed to precipitation. The purpose is to ensure that materials are protected and/or impounded so that pollutants cannot discharge from storage areas. Off-site material storage areas used solely by the subject project are considered to be part of the project and must be included in the erosion control plans and the site inspection reports.

Soil Stabilization Inspections:

Seeded areas will be inspected to confirm that a healthy stand of vegetation is maintained. The site has achieved final stabilization once all areas are covered with pavement or have a stand of vegetation with at least 70% of the background vegetation density. The percentage of 70% or greater must be maintained to be considered as stabilized. The operator or their representative will water, fertilize, and reseed disturbed areas as needed to achieve this goal.

Erosion and Sediment Control Inspections:

All controls should be inspected at least once every seven (7) calendar days and following any storm event of 0.5 inch or greater. The following is a list of inspection/maintenance practices that will be used for specific controls:

- 1. Geotextiles/Erosion Control Mats: Missing or loose matting must be replaced or re-anchored.
2. Inlet Protection: Sediment should be removed when it reaches approximately one-half the height of the fence. If the volume of the basin is reduced by 50%.
3. Diversion Swales: Clean debris or other obstructions as needed. Damage from storms or normal construction activities (i.e., tire ruts) shall be repaired immediately.
4. Mulching: Inspect for thin or bare spots caused by natural decomposition or weather-related events. Mulch in high traffic areas should be replaced on a regular basis to maintain uniform protection.
5. Sediment Traps: Accumulated silt shall be removed and the basin shall be regarded to its original dimensions at such point that the capacity of the impoundment has been reduced to one-half of its original storage capacity. The removed sediment shall be stockpiled or redistributed in areas that are protected from erosion.
6. Sediment Basin: Inspect frequently to check for damage and to ensure obstructions are not diminishing the effectiveness of the structures. Sediment shall be removed and the basin shall be regarded to its original dimensions at such point that the capacity of the impoundment has been reduced to 20% of its original storage capacity. The removed sediment shall be stockpiled or redistributed in areas that are protected from erosion.
7. Silt Fence: Removal of built-up sediment will occur when the sediment reaches one-third the height of the fence.
8. Stabilized Construction Entrances: Periodic regarding and top dressing with additional stones.
9. Straw Bales: Replace straw bales that show signs of deterioration.
10. Vegetation: Protect newly seeded areas from excessive runoff and traffic until vegetation is established. Establish a watering and fertilizing schedule.
11. Good Housekeeping: Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from becoming a pollutant source for stormwater discharges through screening of outfalls and daily pickup of litter.

In the event that sediment escapes the construction site, off-site accumulations of sediment must be removed at a frequency sufficient to minimize adverse impacts. An example of this may be the situation where sediment has washed into the street and could be carried into the storm sewers by the next rainfall and/or pose a safety hazard to users of public streets.

Modifications/Revisions to SWPPP:

Based on inspection results, any necessary modification to this SWPPP shall be implemented within seven calendar days of the inspection. A modification is necessary if a control measure or operational procedure does not provide adequate pollutant control. All revisions shall be recorded on a Record of Revisions within seven calendar days of the inspection.

It is the responsibility of the operator to maintain effective pollutant discharge controls. Physical site conditions or contractor/subcontractor practices could make it necessary to install more controls than were originally planned. For example, localized concentrations of surface runoff or unusually steep areas could require additional silt barrier or other structural controls. Assessing the need for and installing additional controls will be a continuing contractor/subcontractor responsibility until final stabilization is achieved. Contractors and subcontractors implementing this SWPPP must remain alert to the need to periodically refine and update this SWPPP in order to accomplish the intended goals.

Notice of Termination:

Compliance of the site with the General Construction Permit remains the responsibility of all operators that have submitted an NOI until such time as they have submitted a Notice of Termination (NOT). The permittee's authorization to discharge under the General Construction Permit terminates at midnight of the day the NOT is signed.

All permittees must submit an NOT within thirty (30) days after one or more of the following conditions have been met:

- 1. Final stabilization has been achieved on all portions of the site for which the permittee was responsible.
2. Another operator/permittee has assumed control over all areas of the site that have not been finally stabilized.
3. In residential construction operations, temporary stabilization has been completed and the residence has been transferred to the homeowner.

B15 EROSION AND SEDIMENT CONTROL SPECIFICATIONS FOR INDIVIDUAL BUILDING LOTS:

Since the entire site is under a single ownership, there are not any individual building lots.

C1 DESCRIPTION OF POLLUTANTS AND THEIR SOURCES ASSOCIATED WITH THE PROPOSED LAND USE:

The proposed land use is industrial. The pollutants and sources of each pollutant normally expected from this type of land use are listed below:

Pollutant Source: Passenger vehicles, delivery vehicles.
Type of Pollutant: Oil, gasoline, diesel fuel, any hydrocarbon associated with vehicular fuels and lubricants, grease, antifreeze, windshield cleaner solution, brake fluid, brake dust, rubber, glass, metal and plastic fragments, grit, road de-icing materials.
Pollutant Source: Office building.
Type of Pollutant: Cleaning solutions or solvents, leaks from HVAC equipment, grit from roof drainage, aggregate or rubber fragments from roofing system.
Pollutant Source: Trash dumpster.
Type of Pollutant: Cleaning solutions or solvents, litter (paper, plastic, general refuse associated with distribution operations), unseaten food products, bacteria.

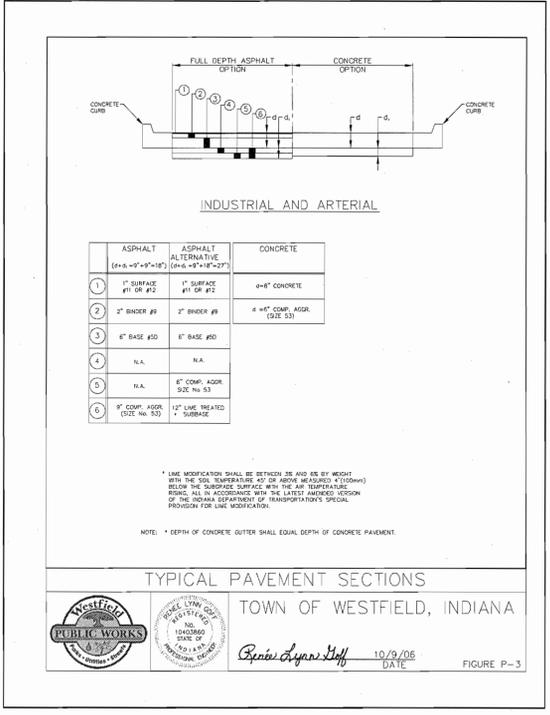
Pollutant Source: Parking lot.
Type of Pollutant: Any pollutant associated with vehicular sources, grit from asphalt wearing surface, bituminous compounds from periodic maintenance (sealing, resurfacing and patching), pavement de-icing materials, paint fragments from parking stall stripes, concrete fragments, wind-blown litter from off-site sources, elevated water temperatures from contact with impervious surfaces.
Pollutant Source: Lawn and landscape areas.
Type of Pollutant: Fertilizers, soil, organic material (leaves, mulch, grass clippings)

The anticipated pollution sources are the vehicles that will use facility, including both delivery trucks and passenger vehicle traffic. Possible pollutants include oil, gasoline, anti-freeze and other pollutants associated with vehicular traffic.

C2 SEQUENCE DESCRIBING STORMWATER QUALITY MEASURE IMPLEMENTATION:

The stormwater detention pond will remain in place as a permanent feature after construction is completed. Although the purpose of the ponds is to restrict stormwater discharges, they will provide an incidental sediment removal function.

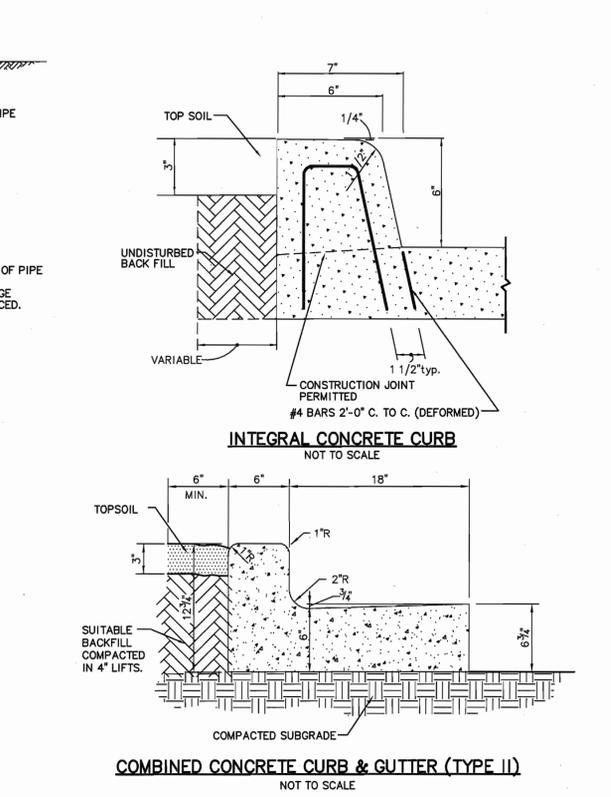
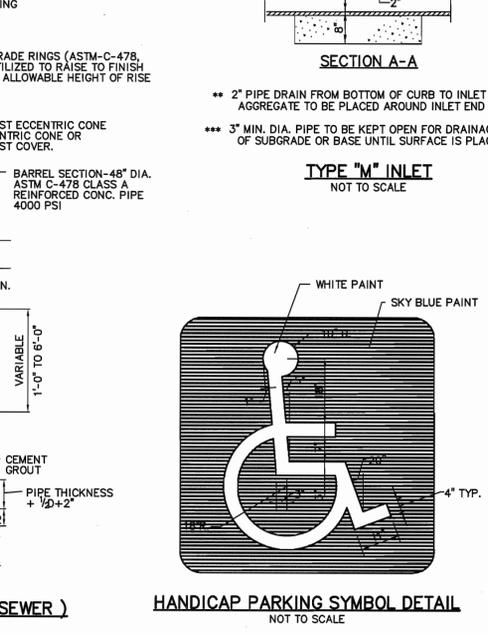
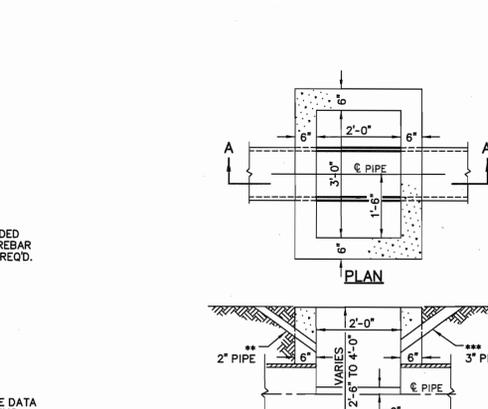
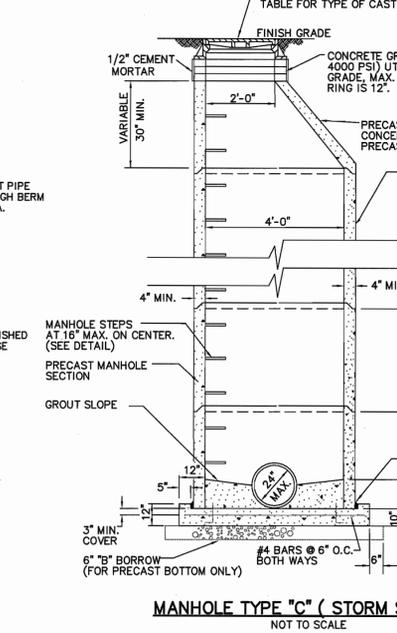
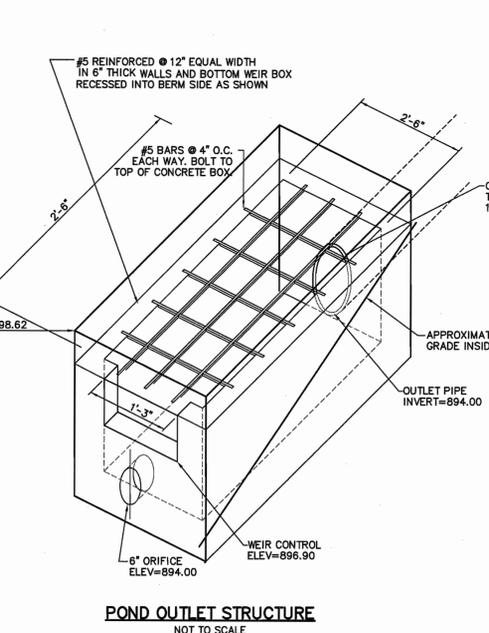
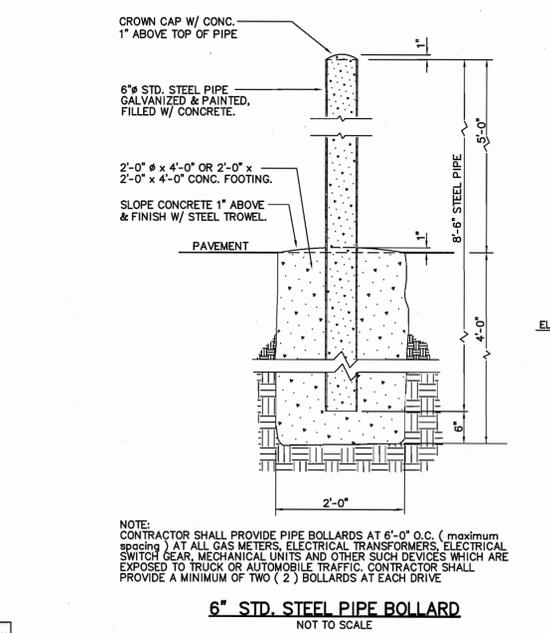
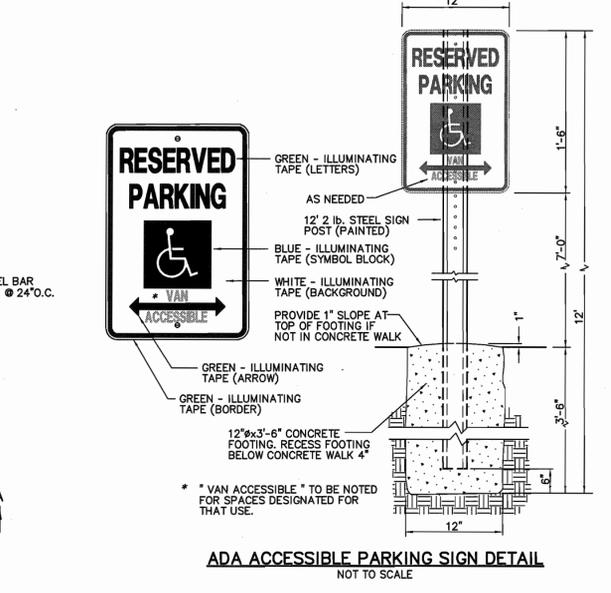
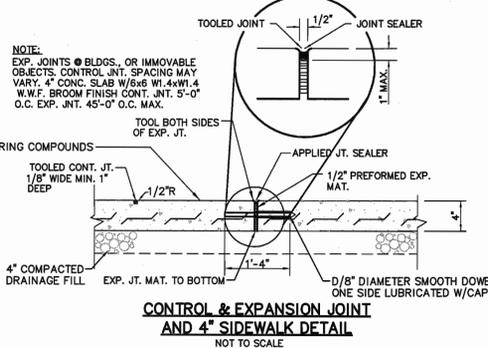
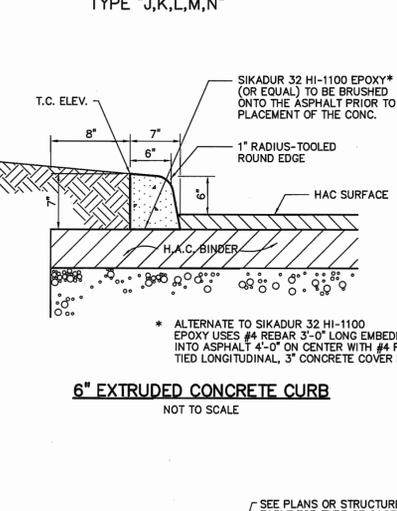
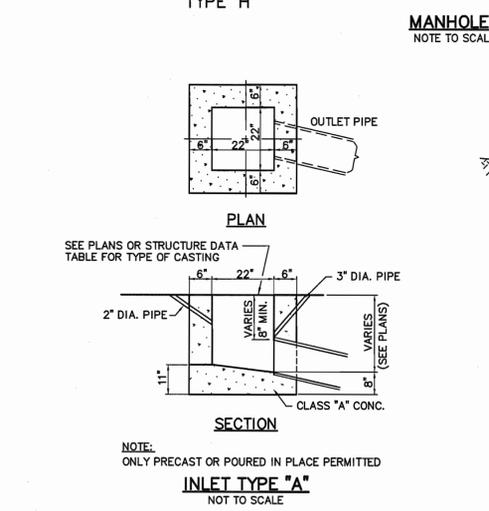
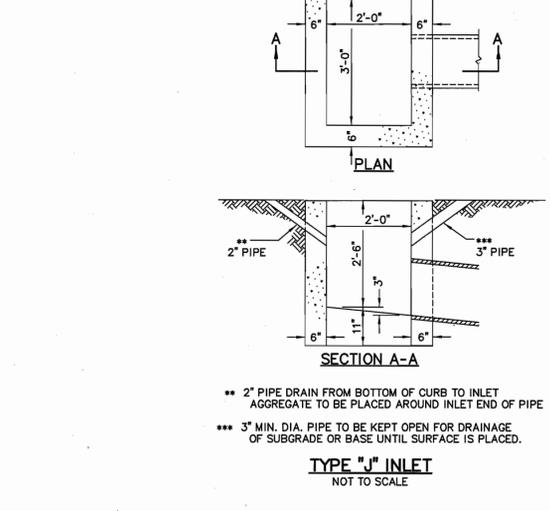
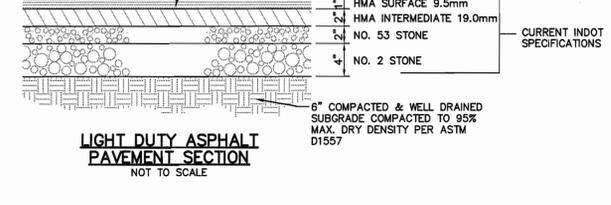
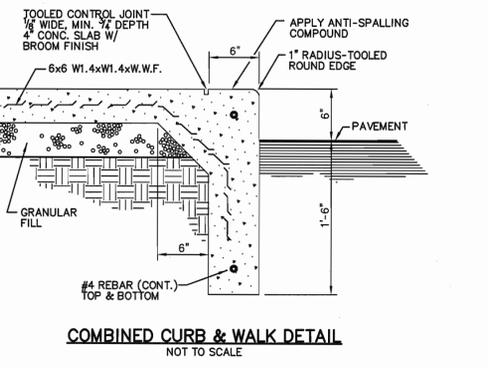
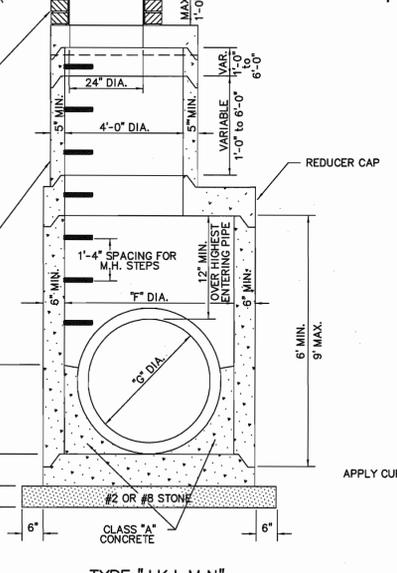
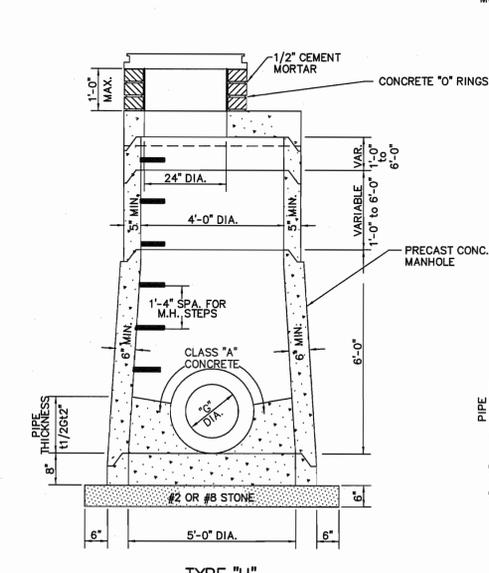
Oils, grease, brake fluid and gasoline spilled on-site shall be immediately absorbed with products



MANHOLE

TYPE	"G"	"F"	MAXIMUM PIPE SIZE RT. ANGLE TO MAINLINE	MAXIMUM PIPE SIZE FOR MAINLINE
H	24" to 36"		30"	36"
J	24" to 36"	60"	33"	36"
K	36" x 48"	72"	36"	48"
L	48" x 54"	96"	48"	54"
M	54" x 72"	102"	66"	72"
N	72" x 84"	108"	72"	84"

NOTES:
DROP PIPE MAY BE USED WITH MANHOLE TYPE H THRU N AND SHALL BE REFERRED TO AS DROP MANHOLE TYPE H THRU N.



APPROVAL PENDING - NOT FOR CONSTRUCTION

7800 SHAKER AND SETON
INDIANAPOLIS, IN 46254-3027
TEL 317.547.5580 FAX 317.543.0270
www.structurepoint.com

AMERICAN
STRUCTUREPOINT
INC.

TIMOTHY M. JENSEN
REGISTERED
No. 10708270
STATE OF INDIANA
PROFESSIONAL ENGINEER
CERTIFIED BY

PREPARED FOR:
AUTOMATIC POOL COVERS
9001 EAST 133RD PLACE
FISHERS, IN 46038

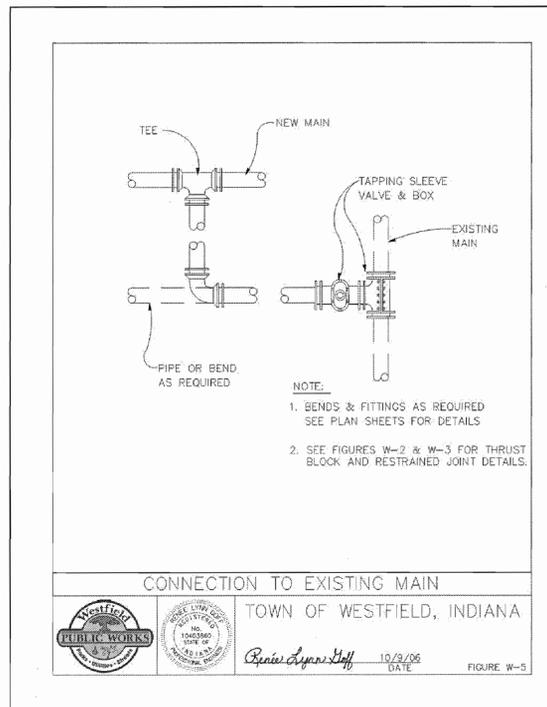
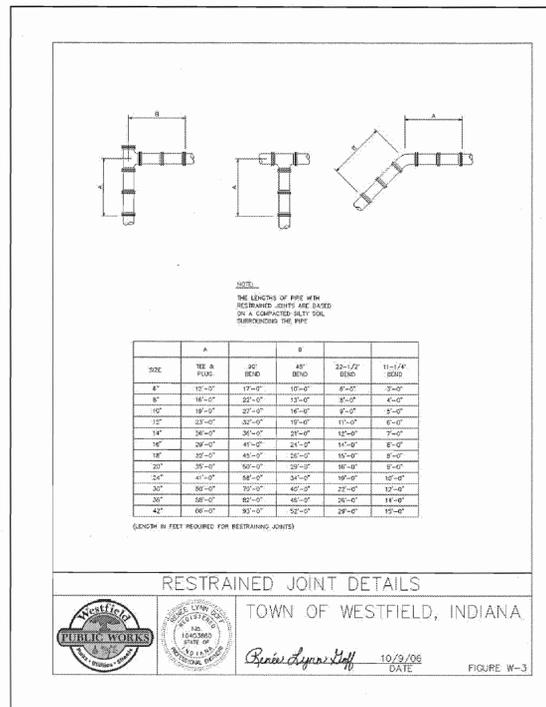
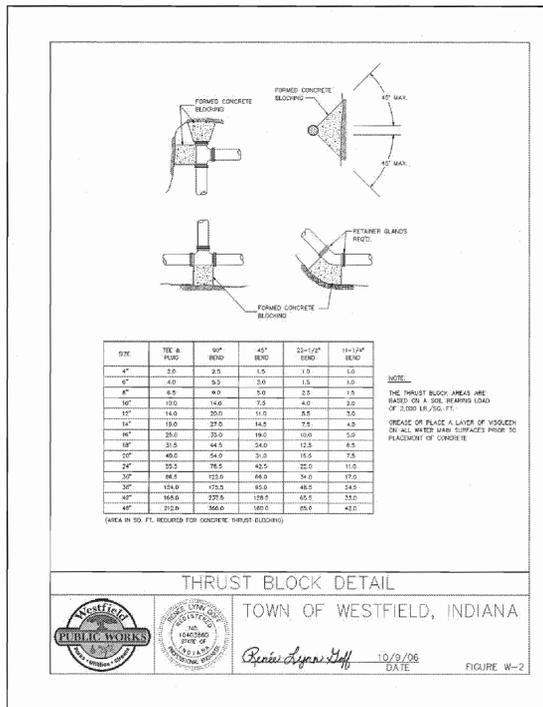
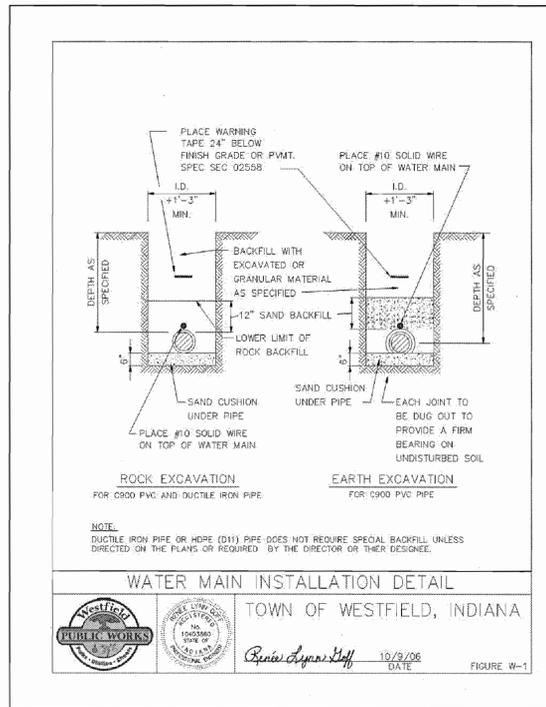
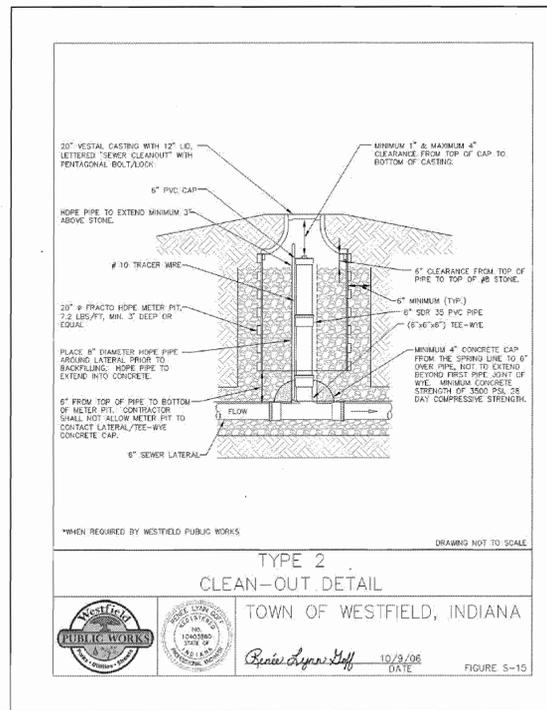
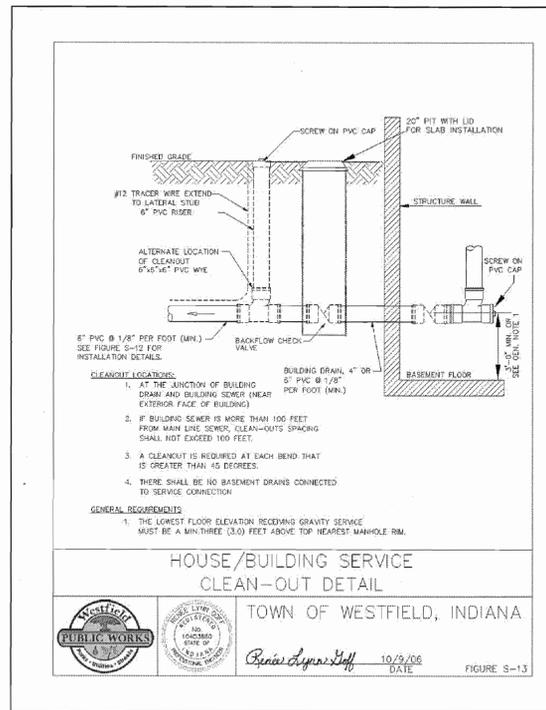
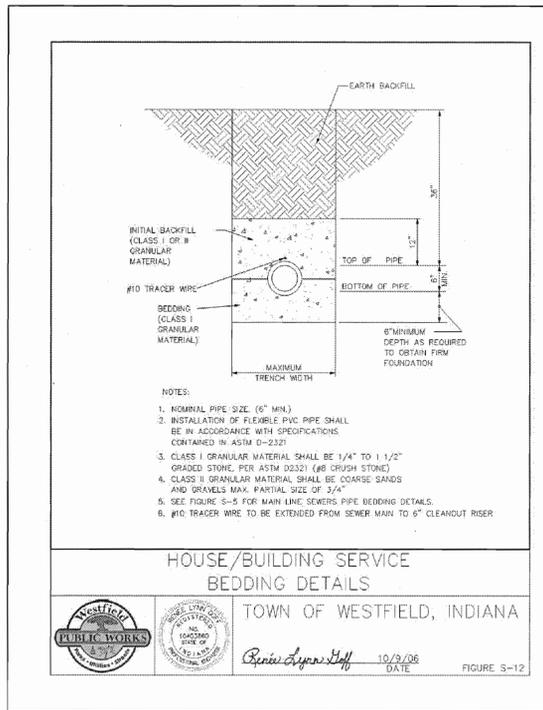
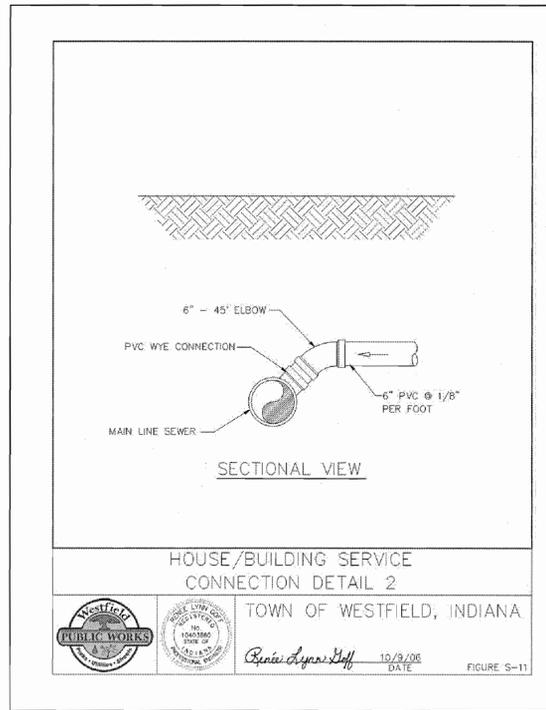
PROJECT:
AUTOMATIC POOL COVERS
17397 OAK RIDGE ROAD
WESTFIELD, IN 46074

DATE: 02/24/2011
DRAWN BY: JH
CHK'D BY: TMJ
JOB NO. 201001088

REVISIONS

SHEET NO.
C6.1
OF

EDIT DATE: 10/16/09 - 8:48 AM EDITED BY: KKENDRICK DRAWING FILE: P:\2010\101088\0. DRAWINGS\DWL\PLAN SET\201001088.CE.09.C06.1-C06.2.SITE_DETAILS.DWG
PLOT SCALE: 1:2.5849



7280 SHADELAND STATION
INDIANAPOLIS, IN 46256
TEL: 317.547.5580 FAX: 317.543.0270
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SITE DETAILS

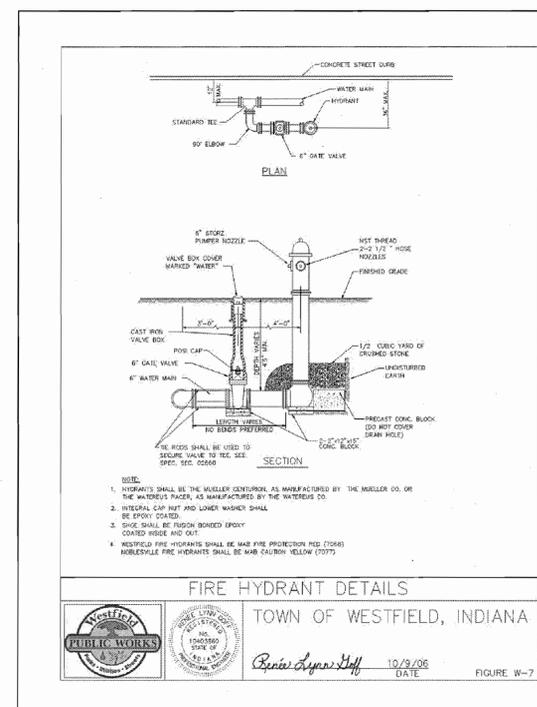
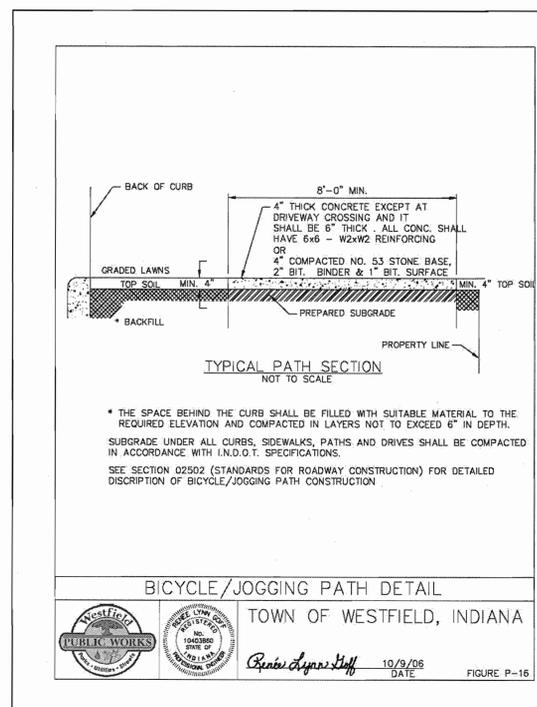
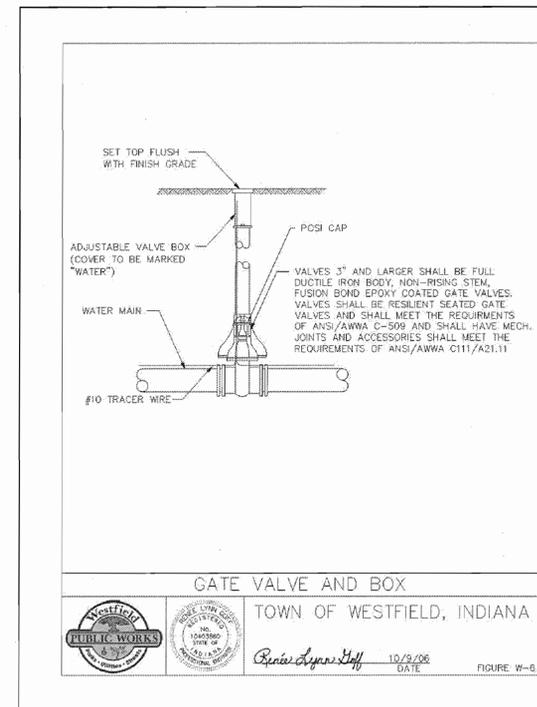
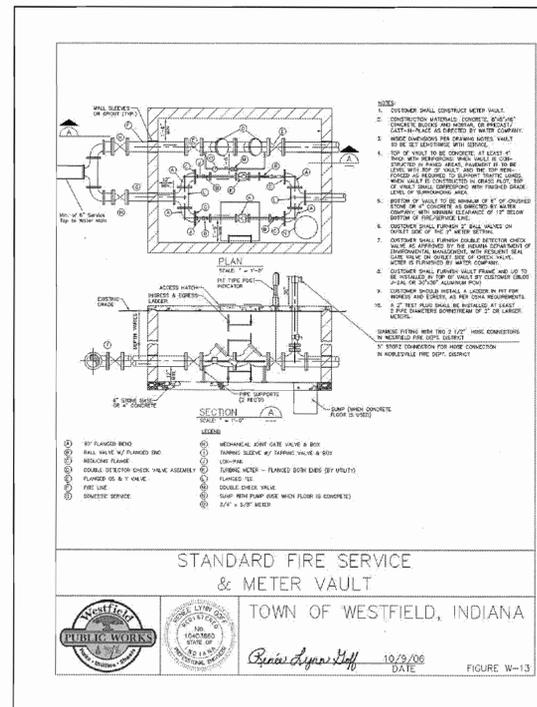
PREPARED FOR:
AUTOMATIC POOL COVERS
9001 EAST 133RD PLACE
FISHERS, IN 46038

PROJECT:
AUTOMATIC POOL COVERS
17397 OAK RIDGE ROAD
WESTFIELD, IN 46074

DATE: 02/24/2011
DRAWN BY: J.J.H.
CHK'D BY: T.M.J.
JOB NO.: 201001088

REVISIONS

SHEET NO.
C6.4
OF



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SITE DETAILS

PREPARED FOR:
AUTOMATIC POOL COVERS
9001 EAST 133RD PLACE
FISHERS, IN 46038

PROJECT:
AUTOMATIC POOL COVERS
17397 OAK RIDGE ROAD
WESTFIELD, IN 46074

DATE:	02/24/2011
DRAWN BY:	JJH
CHK'D BY:	TMJ
JOB NO.	201001088
REVISIONS	

SHEET NO.
C6.5
OF



0' 40' 80'
SCALE: 1"=40'

CONTEXT
landscape architecture

12 S. Main Street, Suite 100 Fortville, IN 46040
tel 317.485.6900 fax 317.485.6912
www.context-design.com

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INDIANAPOLIS, IN 46268-9857
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PREPARED FOR:
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9001 EAST 133RD PLACE
FISHERS, IN 46038

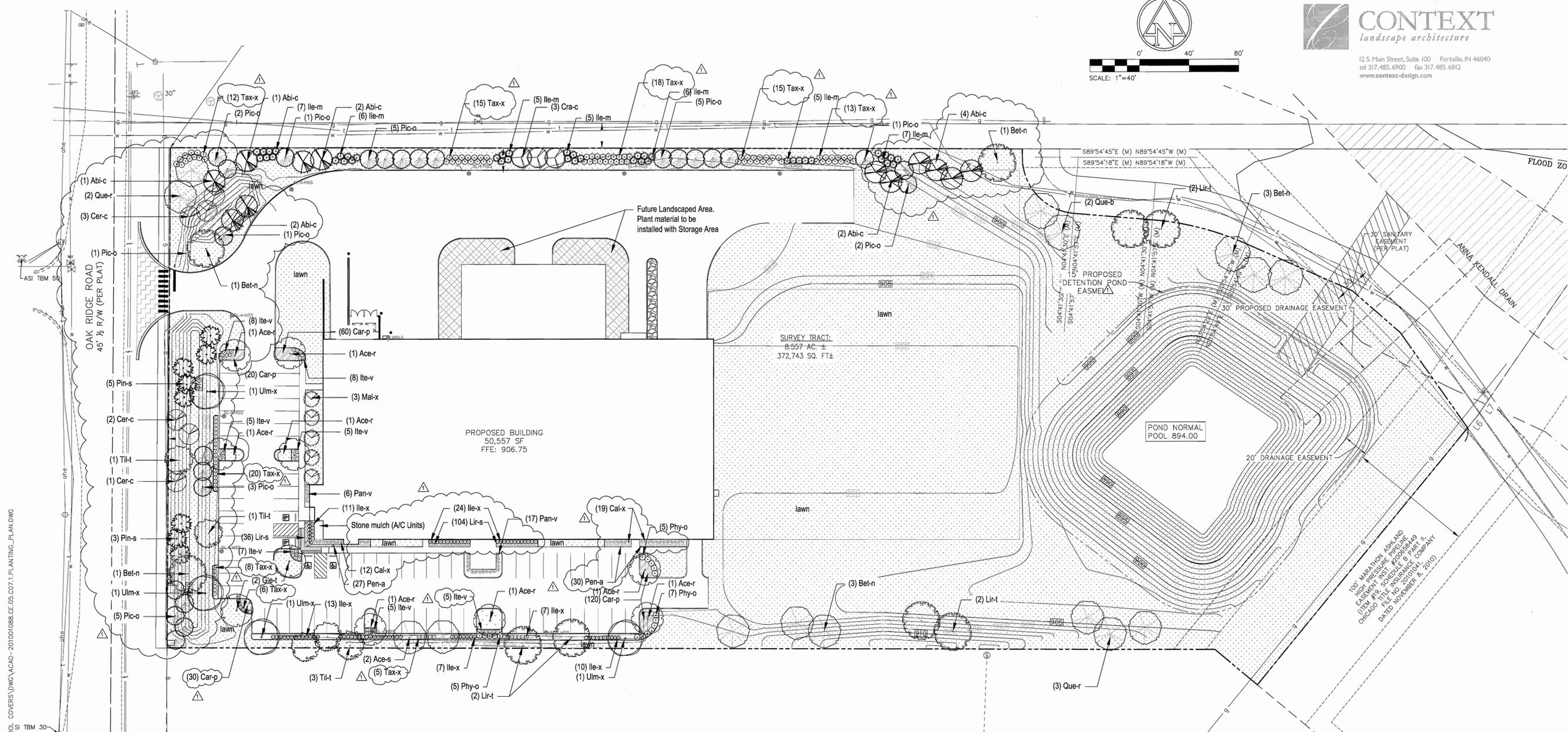
PROJECT:
AUTOMATIC POOL COVERS

DATE: 01/21/2011
DRAWN BY: APP
CHK'D BY: TMJ
JOB NO. 201001088

REVISIONS	
04/12/11	TAC Comments

SHEET NO.
C7.1
OF

ACAD-201001088.CE.05.C07.1.PLANTING_PLAN.DWG



ORDINANCE TABLE
Main Parcel Zoning: PUD-Industrial
ON-SITE AND STREET FRONTAGE
Requirements taken from WC 16.06.050
On-Site Standards: 8.6 acres

Shade Trees @ 5/acre:	43 required	45 provided
Ornamental Trees @ 5 per acre:	43 required	59 provided
Shrubs @ 25/acre:	215 required	300 provided

BUFFER YARDS
Requirements taken from Section 6
West Edge (Oak Ridge Road): 400 l.f. @ 25' width
Evergreen Trees @ 7/100 l.f. = 28 required
28 provided*

*7 ornamental trees substituted for evergreens
Shade Trees @ 2/100 l.f. = 8 required
8 provided

North Edge (adjacent to AG-SF1): 685 l.f. @ 40' width
Requirements taken from WC 16.06.060
Evergreen Trees @ 1/30 l.f. = 23 required
23 provided
Evergreen Shrubs @ 5/30 l.f. = 114 required
114 provided

PARKING AREA LANDSCAPE
Requirements taken from WC 16.06.070
Interior Parking Requirements: 80 spaces = 10%
Landscape Islands = 3,293 required
3,308 provided
Ten (10) Islands = 10 trees required
10 trees provided
40 shrubs required
41 shrubs provided

GENERAL LANDSCAPE & PLANTING NOTES

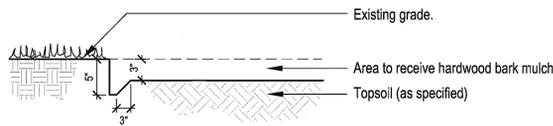
- Plant material to be installed and maintained by a qualified and experienced landscape installer.
- All materials are subject to the approval of the Landscape Architect and Owner at any time. Landscape Architect to inspect all plant locations and plant bed conditions prior to installation. Stake all plant locations for review and approval by the Landscape Architect before planting. On-site adjustments may be required. Plants are to be freshly dug. Transporting of plants shall be done in a manner as to not destroy the natural shape, compromise the health, or alter the characteristics of plant materials.
- Rootballs shall meet or exceed size standards as set forth in 'American Standards for Nursery Stock'. MAIN LEADERS OF ALL TREES SHALL REMAIN INTACT. Remove from the site any plant material that turns brown or defoliates within five (5) days after planting. Replace immediately with approved, specified material.
- Plant counts indicated on drawings are for Landscape Architect's use only. Contractor shall make own plant quantity takeoffs using drawings, specifications, and plant schedule requirements (i.e., spacing), unless otherwise directed by Landscape Architect. Contractor to verify bed measurements and install appropriate quantities as governed by plant spacing per schedule.
- All plant beds shall receive 3" minimum of genuine shredded hardwood bark mulch (unless otherwise noted). Apply pre-emergent herbicide as directed by the manufacturer prior to installing mulch. Sod all areas disturbed by construction activities that are not otherwise noted to receive pavement, planting bed, or other treatment.
- The Contractor shall install and/or amend topsoil in all proposed bed areas to meet ASTM D5268 standards. Landscape shall verify depth and quality of topsoil prior to plant installation. A minimum of 4" of topsoil is required for sodded areas; 12" for plant beds. Topsoil sources shall include the reuse of surface soil stockpiled on site, clean of roots, plants, sod, stones, clay lumps, and other extraneous or foreign materials larger than 1". Supplement with imported topsoil from off-site sources when quantities are insufficient. Do not obtain supplemental topsoil from agricultural land, bogs, or marshes. Inorganic amendments, organic amendments, and fertilizers shall be used to amend topsoil as needed for long-term plant health.
- Verify all utility locations in the field prior to beginning work. Repair all damaged utilities to satisfaction of the Owner and Operating Authority at no additional cost.

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 -

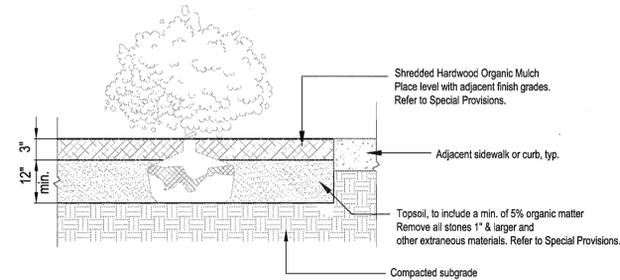
NOTES:
1. CONTRACTOR SHALL PROTECT AND NOT DESTROY THE PROPERTY CORNER MONUMENTS DURING CONSTRUCTION
2. CONTRACTOR TO VERIFY LOCATION, SIZE AND DEPTH OF EXISTING UTILITIES PRIOR TO COMMENCING ANY CONSTRUCTION. CONTACT ENGINEER IF VARIATION EXISTS.

PLOT SCALE: 1:2,584.9 EDIT DATE: 10/16/09 6:28 PM EDITED BY: HOME DRAWING FILE: M:\11-516 AUTOMATIC POOL COVERS\DWG\ACAD-201001088.CE.05.C07.1.PLANTING_PLAN.DWG

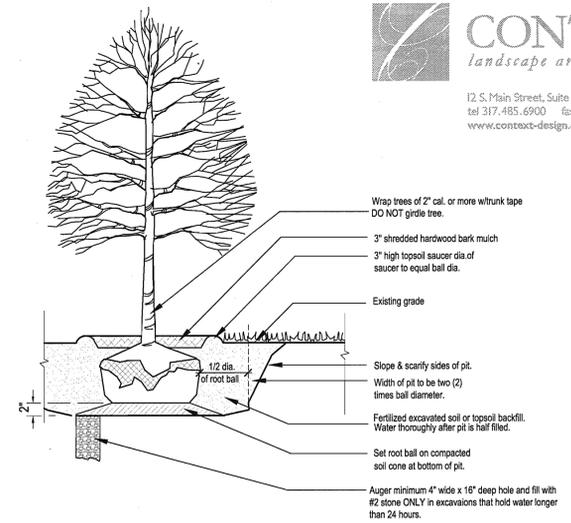
Symbol	Botanical Name	Common Name	Size	Container	Notes
TREES					
Abi-c	Abies concolor	White Fir	6' ht.	B&B	symmetrical, full
Ace-r	Acer rubrum 'October Glory'	October Glory Red Maple	2" cal.	B&B	full, matched
Ace-s	Acer saccharum 'Legacy'	Legacy Sugar Maple	2" cal.	B&B	full, matched
Ame-x	Amelanchier x grandiflora	Autumn Brilliance Serviceberry	8' ht.	B&B	multi-stemmed, 3-5 stems
Bet-n	Betula nigra 'Cully'	Heritage River Birch	8' ht.	B&B	clump form, 3 divisions
Cer-c	Cercis canadensis	Redbud	8' ht.	B&B	clump form, 5-7 stems
Cra-c	Crataegus crus galli var. inermis	Thornless Cockspur Hawthorn	2" cal.	B&B	symmetrical, matched
Gle-t	Gleditsia triacanthos inermis 'Skycoole'	Skycoole Honeylocust	2" cal.	B&B	symmetrical, full
Lir-t	Liriodendron tulipifera	Tulip Tree	2" cal.	B&B	full
Mai-x	Malus x David'	David Crabapple	2" cal.	B&B	full, matched
Pic-o	Picea omorika	Serbian Spruce	6' ht.	B&B	symmetrical, full
Pin-s	Pinus strobus 'Fastigiata'	Fastigate White Pine	6' ht.	B&B	full, strong central leader
Que-b	Quercus bicolor	Swamp White Oak	2" cal.	B&B	dug in spring, symmetrical
Que-r	Quercus rubra	Red Oak	2" cal.	B&B	dug in spring, symmetrical
Til-t	Tilia tomentosa	Silver Linden	2" cal.	B&B	full, matched
Ulm-x	Ulmus 'Princeton'	Princeton Elm	2" cal.	B&B	symmetrical, matched
SHRUBS					
Cle-a	Clethra alnifolia 'Hummingbird'	Hummingbird Summerweet	24"	container	space @ 2'-0" o.c.
Ile-x	Ilex x 'Willemer'	Emerald Magic Holly	24"	container	space @ 3'-5" o.c.
Ile-m	Ilex x meserveae 'Blue Princess'	Blue Princess Holly	30"	container	space @ 6'-0" o.c. Provide one male species per grouping
Ile-v	Itea virginica 'Henry's Garnet'	Henry's Garnet Sweetspire	24"	container	space @ 3'-0" o.c.
Tax-x	Taxus x media 'Densiflora'	Dense Yew	24"	container	space @ 2'-0" o.c. allow to mass into hedge
Phy-o	Physocarpus opulifolius 'Monlo'	Diablo Purple Ninebark	30"	container	space @ 5'-0" o.c.
GROUNDCOVERS AND GRASSES					
Cal-x	Calamagrostis x 'Cheju-do'	Dwarf Feather Reed Grass	#1	pot	space @ 2'-0" o.c.
Car-p	Carex pennsylvanica	Pennsylvania Sedge	#1	pot	space @ 18" o.c., triangular spacing
Hel-s	Helictotrichon sempervirens 'Sapphire'	Sapphire Blue Oat Grass	#1	pot	space @ 2'-0" o.c.
Lir-s	Liriope spicata	Creeping Lilyturf	#1	pot	space @ 15" o.c.
Pan-v	Panicum virgatum 'Dallas Blues'	Dallas Blues Switch Grass	#1	pot	space @ 3'-0" o.c.



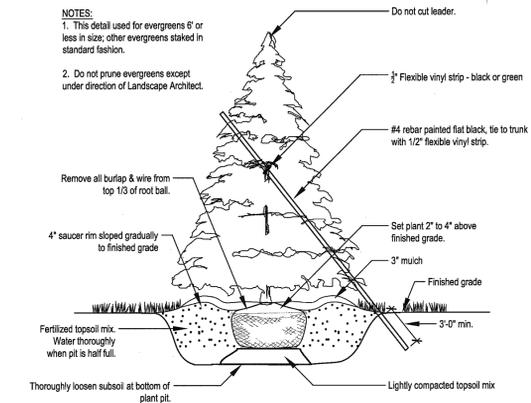
SPADE EDGE
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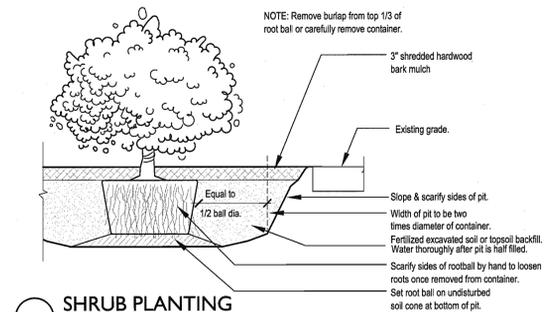
LANDSCAPE BED PREPARATION
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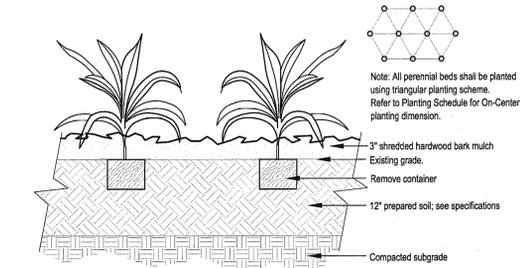
TREE PLANTING
Not to Scale



EVERGREEN TREE PLANTING
Not to Scale



SHRUB PLANTING
Not to Scale



PERENNIAL PLANTING
Not to Scale



CERTIFIED BY

PLANTING DETAILS

PREPARED FOR:
AUTOMATIC POOL COVERS
9001 EAST 133RD PLACE
FISHERS, IN 46038

PROJECT:
AUTOMATIC POOL COVERS

DATE: 01/21/2011
DRAWN BY: APP
CHK'D BY: TMJ
JOB NO. 201001088

REVISIONS	
04/01/11	TAC Comments

SHEET NO.

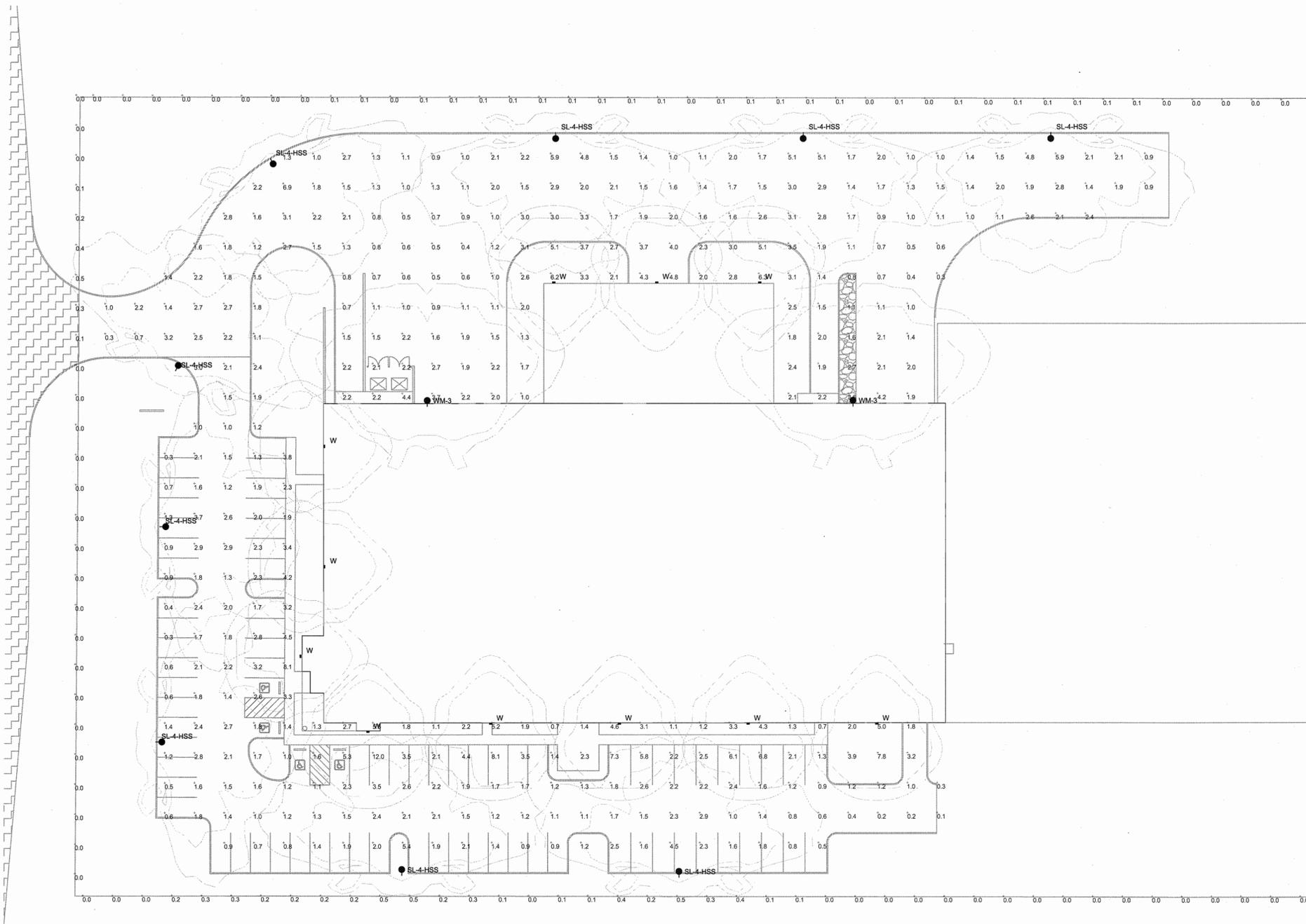
C7.2

OF

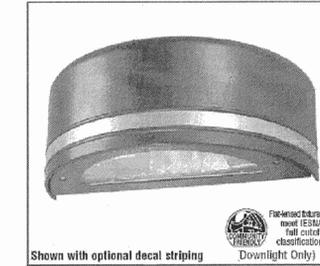
SITE LIGHTING NOTES:

SCALE: 1"=20'

1. LIGHT LEVELS ARE MAINTAINED WITH A .80 LIGHT LOSS FACTOR.
2. LIGHT LEVELS ARE CALCULATED 2'-6" ABOVE FINISH FLOOR.
3. LIGHT POLES ARE 23' TALL MOUNTED ON BASES 2'-0" A.F.F., OVERALL FIXTURE HEIGHT : 25' A.F.F.
4. TYPE WM-3 IS MOUNTED 25' A.F.F.
5. PERIMETER POLE MOUNTED LIGHT FIXTURES WILL HAVE GLARE SHIELDS (HSS)



HILTON® WALL SCONCE



HILTON® - FLAT LENS



Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
LOT	Illuminance	Fc	2.09	12.0	0.1	20.90	120.00
PROPERTY LINE	Illuminance	Fc	0.05	0.5	0.0	N.A.	N.A.
docks	Illuminance	Fc	2.06	4.2	1.0	2.06	4.20
PARKING	Illuminance	Fc	2.19	12.0	0.3	7.30	40.00

Luminaire Schedule							
Symbol	Qty	Label	Arrangement	Total Lamp Lumens	LLF	Description	
●	9	SL-4-HSS	SINGLE	44000	0.800	HFR-FP-400-PSMV-F-HSS 5RPBO S11G 23 S 5SRBC	
○	2	WM-3	SINGLE	44000	0.800	HFR-3-400-PSMV-F BKS BO WM	
□	11	W	SINGLE	22000	0.800	HIWSD-FT-250-PSMH-F	

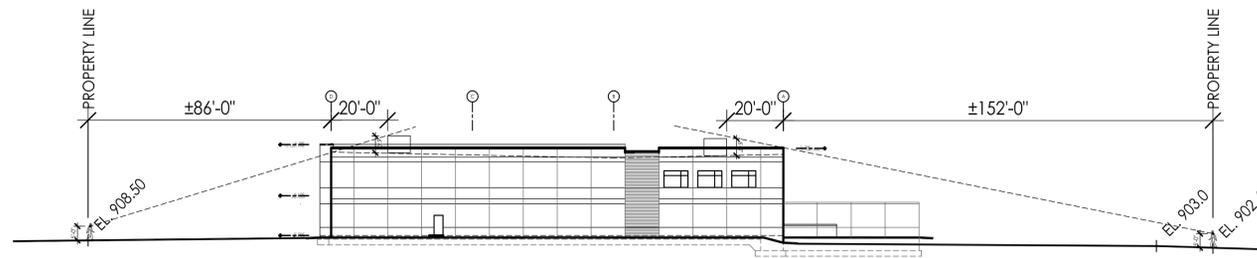
PROJECT NAME:
AUTOMATIC POOL COVERS

LIGHTING LAYOUT AND PRELIMINARY EDC
 7800 Brookwood Square
 Indianapolis, IN 46226
 317-597-0500

Revisions		
Rev.	Date	By
1	4/11/11	VP

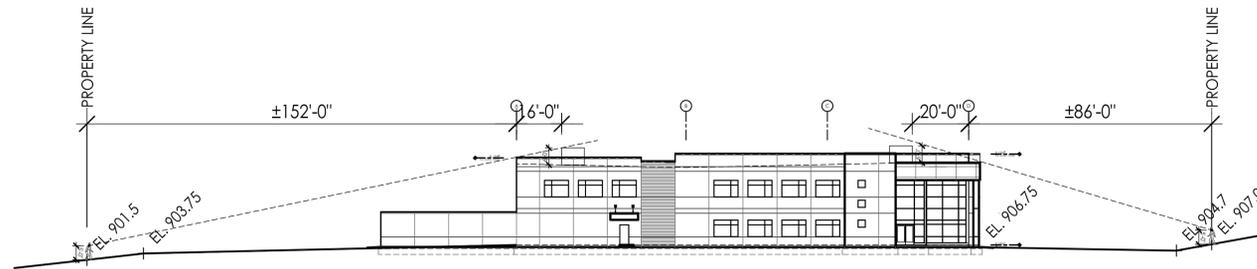
Project Notes:

Based on the information provided, all dimensions and luminaire locations represent recommended positions. The engineer and/or architect must verify applicability of the layout to existing or future field conditions.
 Lighting pattern represents illumination levels calculated from laboratory data under controlled conditions in accordance with Illuminating Engineering Society methods. Actual performance of any manufacturer's luminaire may vary due to variation in electrical voltage, tolerance in lumens, and other variable field conditions.



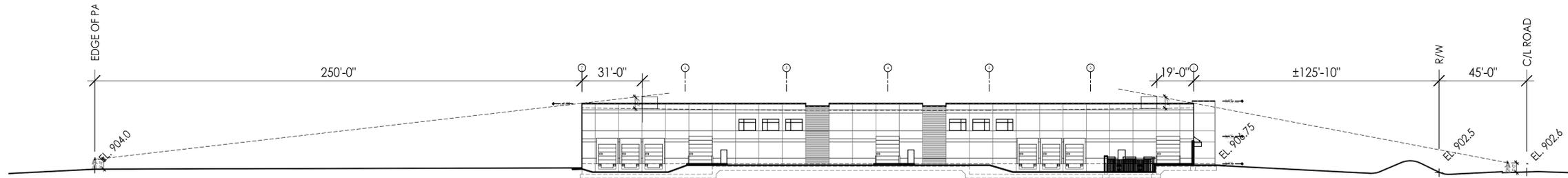
EAST ELEVATION

1" = 30'-0" (24x36)
 0 5' 10 15' 30' 60'



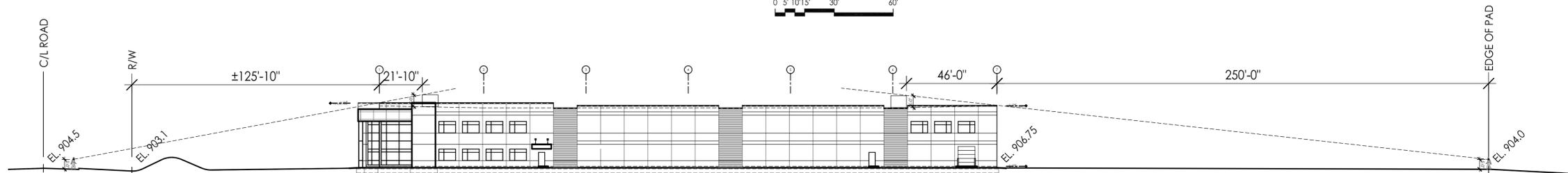
WEST ELEVATION

1" = 30'-0" (24x36)
 0 5' 10 15' 30' 60'



NORTH ELEVATION

1" = 30'-0" (24x36)
 0 5' 10 15' 30' 60'



SOUTH ELEVATION

1" = 30'-0" (24x36)
 0 5' 10 15' 30' 60'

FINISHED FLOOR ELEVATION 100'-0" = EL. 906.75

BASED ON GRADING PLAN DATED 24 FEB 2011,
 PREPARED BY AMERICAN STRUCTUREPOINT